

PROJECT ID:
3839-03-73

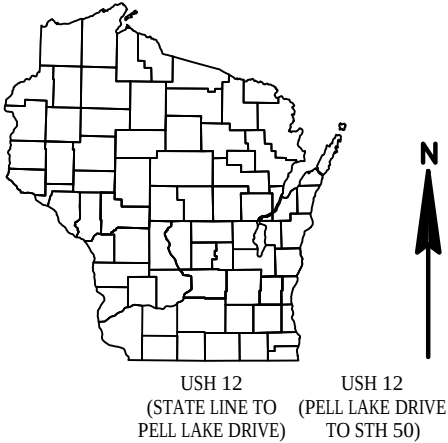
COUNTY:
WALWORTH

WITH: N/A

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



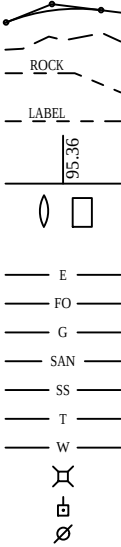
DESIGN DESIGNATION

A.A.D.T.	2015	=	9,500	=	13,600
A.A.D.T.	2040	=	11,800	=	17,200
D.H.V.		=	11.2	=	11.2
D.D.		=	59/41	=	59/41
T.		=	11.9%	=	11.9%
DESIGN SPEED		=	70MPH	=	70MPH
ESALS		=		=	

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	----
LIMITED HIGHWAY EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	300'EB
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	95.36
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

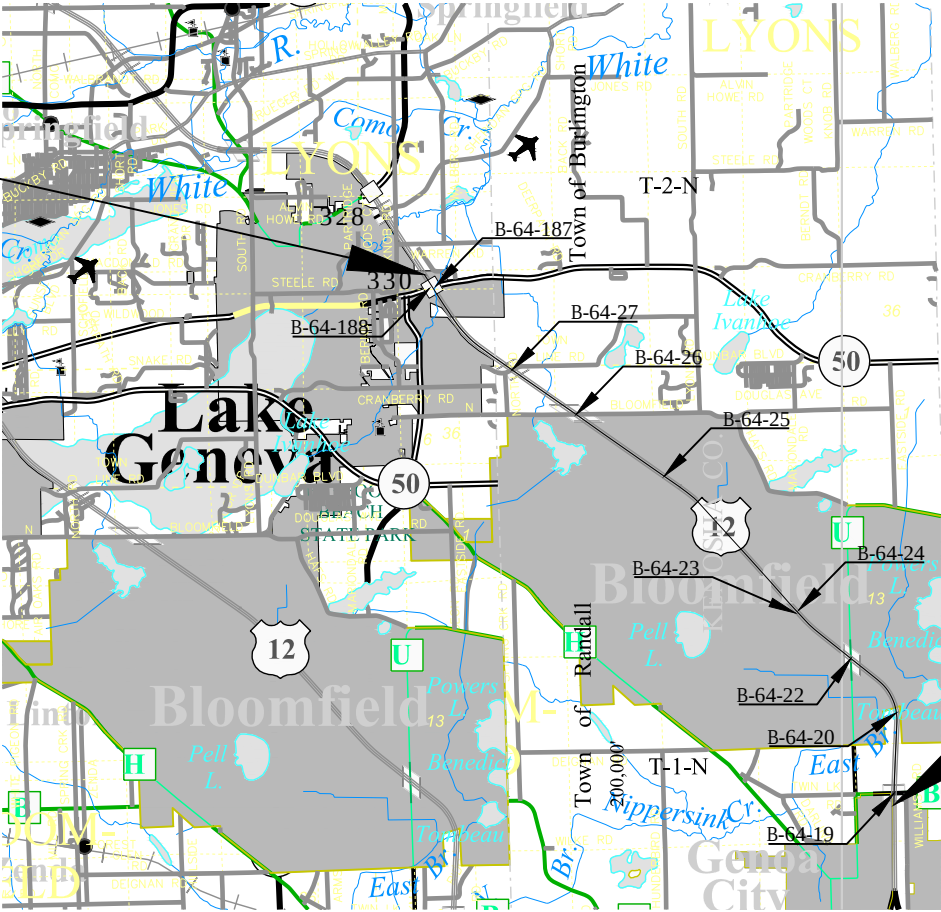
VARIOUS BRIDGE LOCATIONS

CONST/BRIDGE REHAB

USH 12

WALWORTH COUNTY

STATE PROJECT NUMBER
3839-03-73



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 8.407

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WALWORTH 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.

STRUCTURES

- B-64-19
- B-64-20
- B-64-22
- B-64-23
- B-64-24
- B-64-25
- B-64-26
- B-64-27
- B-64-187
- B-64-188

END PROJECT 3839-03-73
STA 560+87.49
X=798730.965
Y=337179.310

BEGIN PROJECT 3839-03-73
STA 117+00.00
X=823625.603
Y=303992.535

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	KL ENGINEERING, INC.
Surveyor	HNTE
Designer	JUSTIN SUYDAM, P.E.
Project Manager	RICH HERRICK
Regional Examiner	JANET CANNON
Regional Supervisor	
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

EXISTING SURFACE ELEVATIONS SHOWN IN CROSS SECTIONS DOES NOT ACCOUNT FOR ANY PLANNED REHABILITATION/OVERLAY WORK.

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

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

PROTECT INLETS WITH PROPER INLET PROTECTION AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATIONS OF PRIVATE ENTRANCES ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, OR AS SHOWN ON THE PLANS. BASE AGGREGATE DENSE 1-1/4 INCH SHALL BE USED UNDER ALL DRIVEWAYS.

THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE.

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

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

PROVIDE A STOCKPILE AND MATERIAL STORAGE/STAGING PLAN DURING THE PRECON MEETING. MATERIALS SHALL NOT BE PILED TO BLOCK VISIBILITY OR ACCESS OF USERS AND ADJACENT PROPERTIES. DON'T STOCKPILE UNLESS LOCATIONS AND HEIGHTS ARE APPROVED BY ENGINEER.

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

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

THE REMOVAL OF MESH MATERIAL THAT IS FOUND IN EXISTING PAVEMENT WILL BE INCIDENTAL TO THE REMOVAL OF THE PAVEMENT ITEM IN THAT SECTION.

REMOVAL OF EROSION CONTROL DEVICES IS INCIDENTAL TO THE COST OF THEIR RESPECTIVE BID ITEMS.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

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

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM "TRAFFIC CONTROL COVERING SIGNS TYPE 1 OR TYPE 2."

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

BENCHMARK LOCATIONS SHOWN ON PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED.

EXCAVATION REQUIRED FOR ALL BRIDGES IS NOT INCLUDED IN THE COMPUTER EARTHWORK AND IS INCIDENTAL TO THE PERTINANT STRUCTURE ITEMS. SEE STRUCTURE PLANS FOR ADDITIONAL GUIDANCE ON REQUIRED EXCAVATION LIMITS.

EXISTING SIGNING TO REMAIN IN PLACE UNTIL NEW SIGNING IS IN PLACE.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

LEAVE EXISTING PAVEMENT STRUCTURE INTACT UNLESS DIRECTED BY FIELD ENGINEER.

ASPHALT SPECIFICATIONS

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
3MT58-28S	4.0"	2.25" LOWER LAYER
4MT58-28S		1.75" UPPER LAYER
4MT58-28S	5.0"	1.75" UPPER LAYER
3MT58-28S		3.25" LOWER LAYER
4MT58-28S	8.0"	1.75" UPPER LAYER
3MT58-28S		3" UPPER-LOWER LAYER 3.25" LOWER-LOWER LAYER

ABBREVIATIONS

AEW	APRON END WALL
AEWCPRC	APRON END WALL FOR CULVERT PIPE REINFORCED CONCRETE
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
BMP	BEST MANAGEMENT PRACTICES
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CORRUGATED METAL CULVERT PIPE
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
Δ	DELTA
D	DEGREE OF CURVE
DISCH	DISCHARGE
EAT	ENERGY ABSORBING TERMINAL
EB	EASTBOUND
ECIP	EROSION CONTROL IMPLEMENTATION PLAN
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY

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COMMUNICATION

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CITY OF LAKE GENEVA DEPARTMENT
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CITY OF LAKE GENEVA DEPARTMENT
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POWERS-BENEDICT-TOMBEAU LAKES - WATER

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TOWN OF BLOOMFIELD - WATER

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VILLAGE OF GENOA CITY - SEWER

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DESIGN CONTACTS

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DNR AREA LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

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ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
CONSTRUCTION DETAILS
TYPICAL SECTIONS
EROSION CONTROL
TRAFFIC CONTROL
ALTERNATE ROUTE
SURVEY CONTROL

OTHER AGENCY CONTACTS

CITY OF LAKE GENEVA

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TOWN OF LYONS

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Highw ay@bloomfield-wi.us





PROJECT NO: 3839-03-73		HWY: USH 12	COUNTY: WALWORTH	PROJECT OVERVIEW			SHEET PRE_4	E
FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\020201-PO.DWG		PLOT DATE : 6/30/2019 5:26 PM		PLOT BY : CECELIA KASTEN		PLOT NAME : PLOT SCALE : 1"=3000'		WISDOT/CADDs SHEET 42
LAYOUT NAME - 020201-po								

SEE SDD FOR UNDERDRAIN
INSTALLATION DETAIL

EMBANKMENT

PAVEMENT

1' MIN.

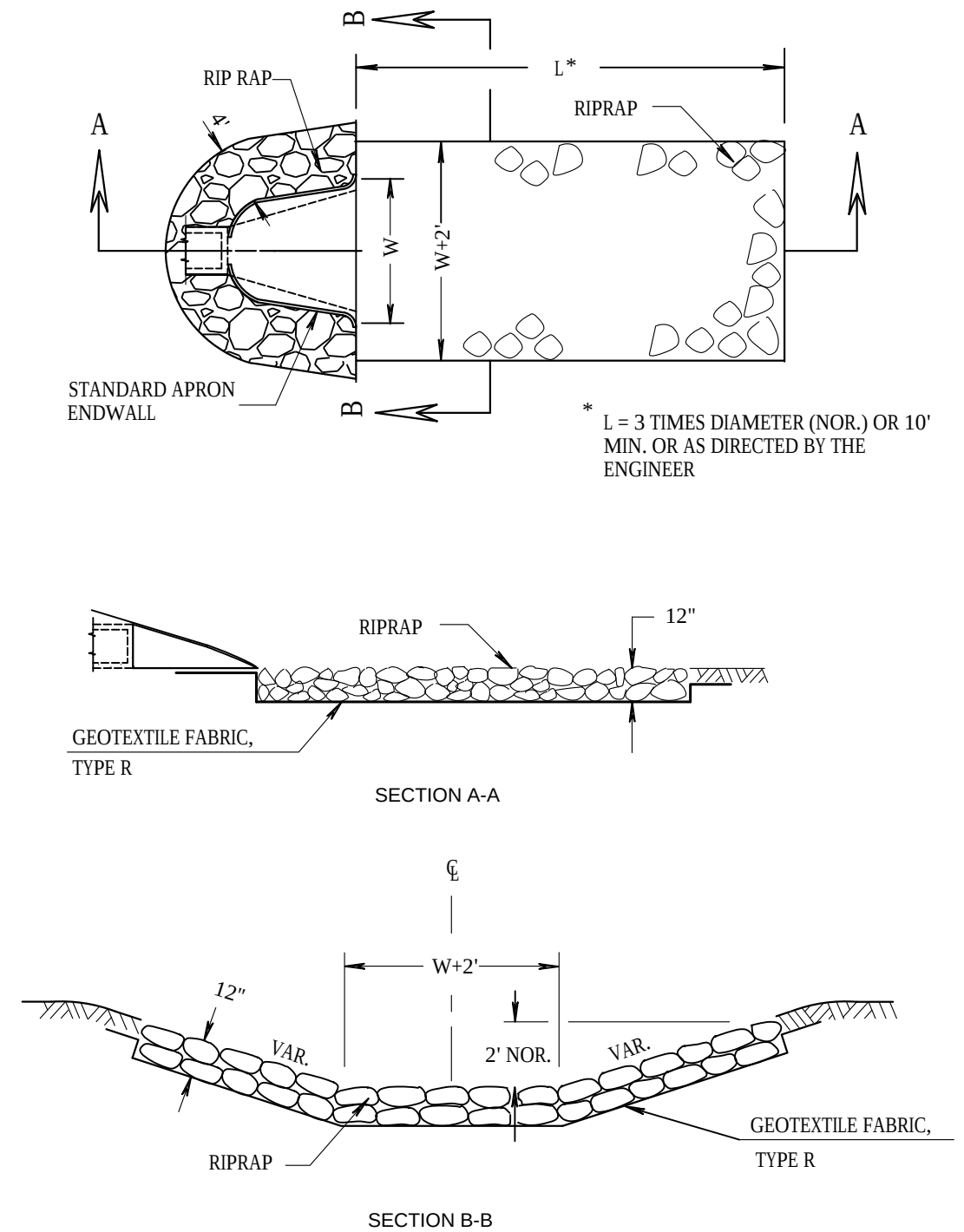
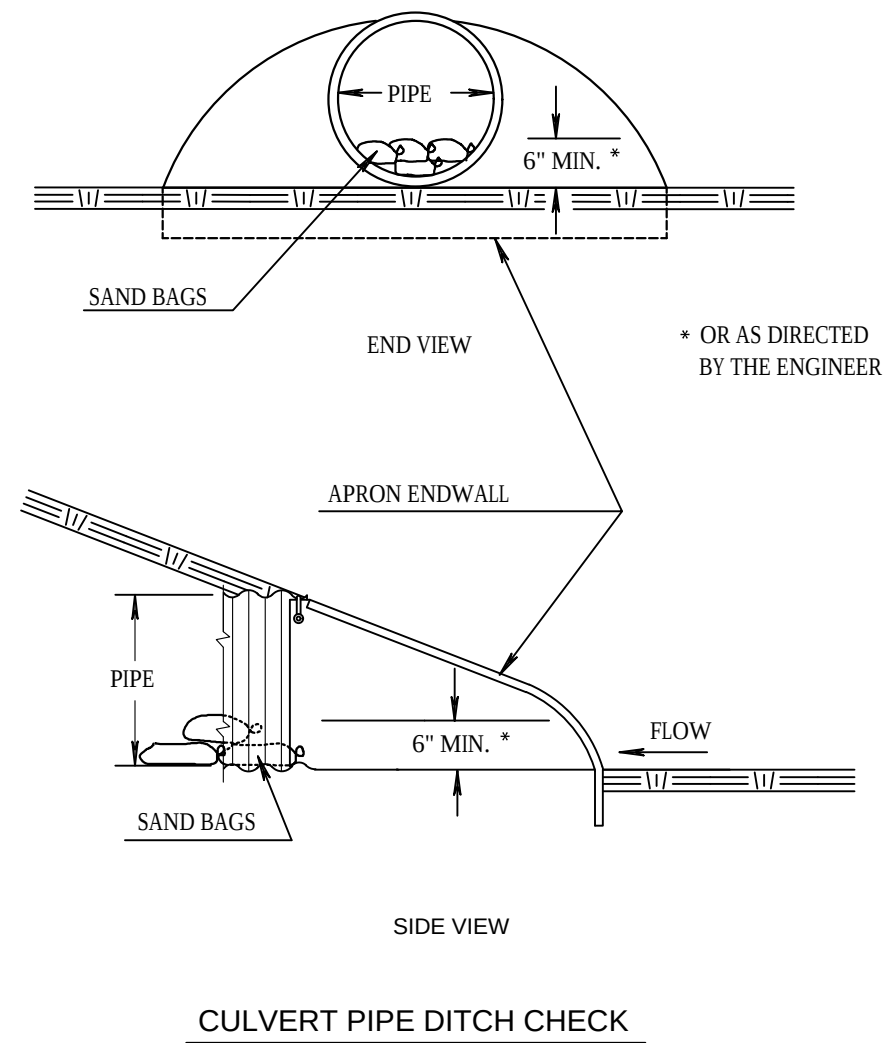
REINFORCED CONC. APRON
ENDWALL FOR UNDERDRAIN, 6-INCH

PIPE UNDERDRAIN, UNPERFORATED,
6-INCH (SLOPE 2% MIN.)

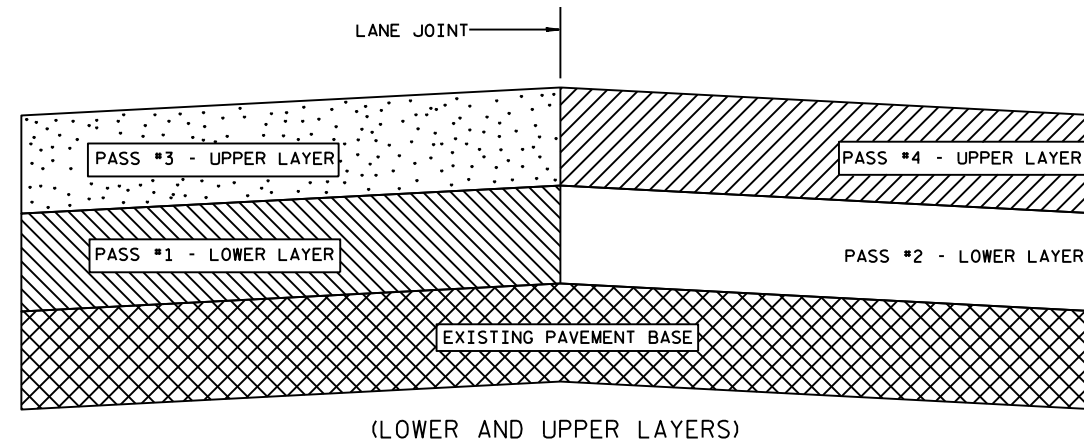
1

PIPE UNDERDRAIN,
6-INCH

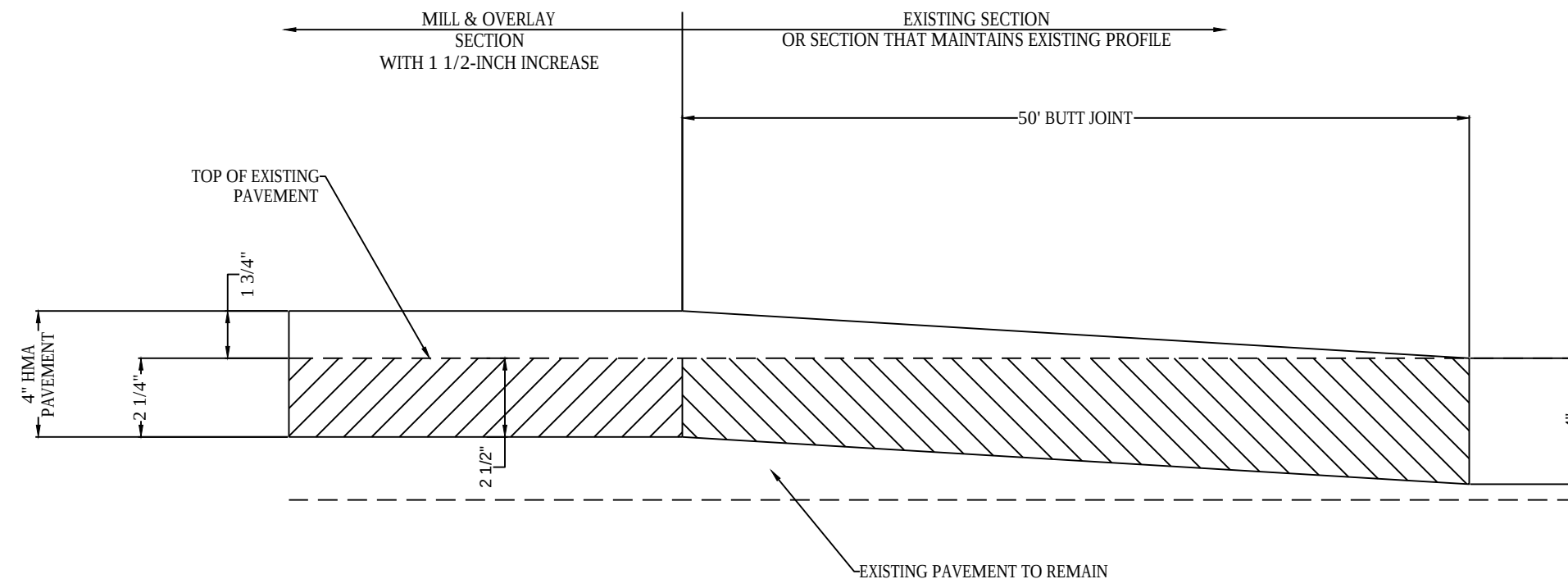
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CONSTRUCTION DETAILS			SHEET PRE_5	E
FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\020221-CD.DWG LAYOUT NAME - 01		PLOT DATE : 6/28/2019 9:03 AM	PLOT BY : CECELIA KASTEN	PLOT NAME :	PLOT SCALE : 1 IN:10 FT	WSDOT/CADDs SHEET	



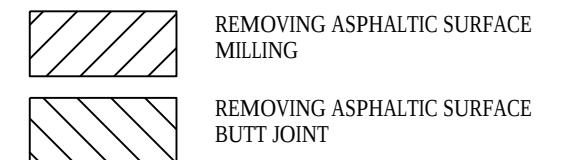
SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL
AT APRON ENDWALLS

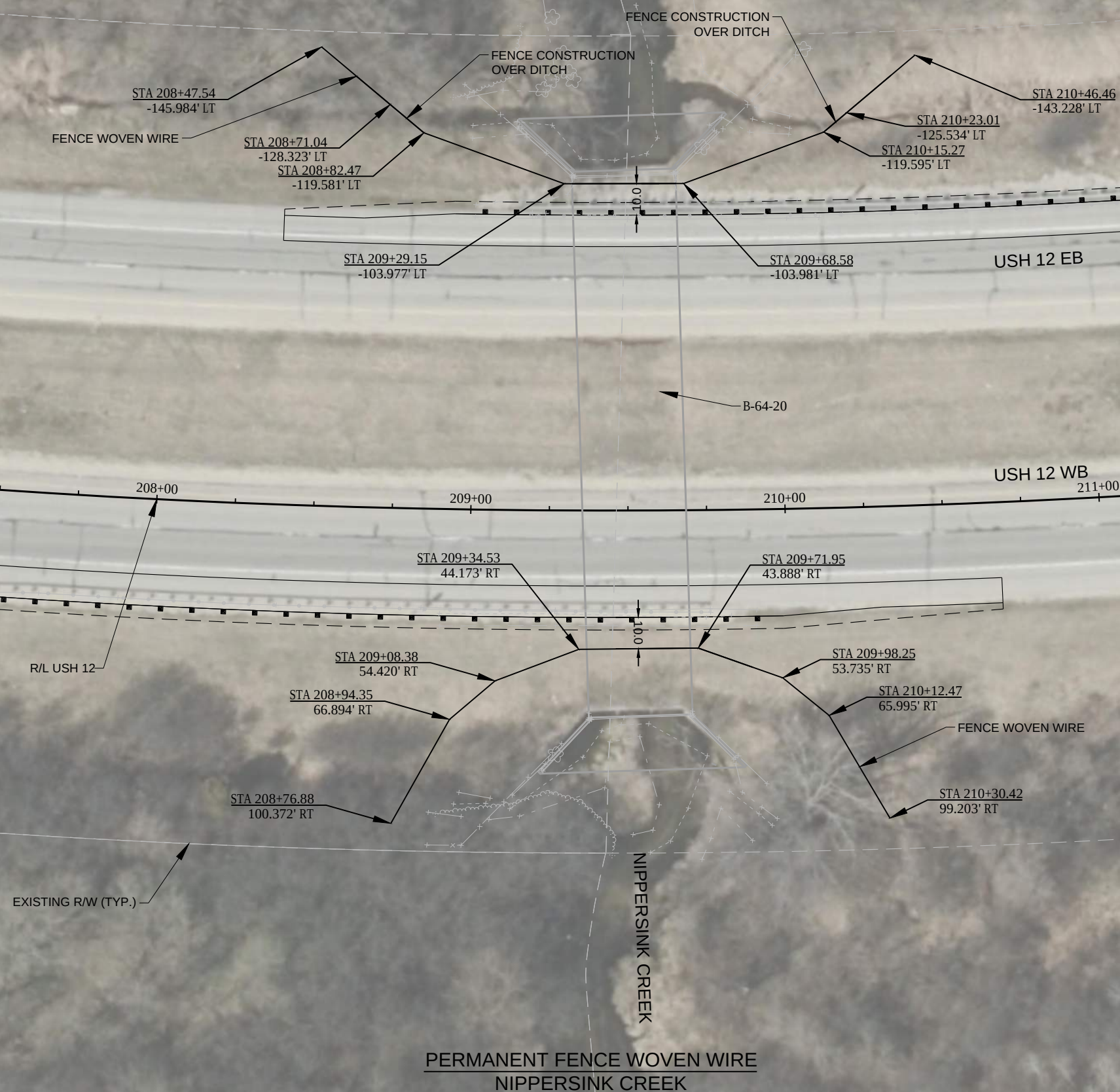


TYPICAL PAVEMENT CROSS SECTIONS OF
TAPERED AND NOTCHED LONGITUDINAL JOINTS



VARIABLE DEPTH ASPHALTIC SURFACE MILLING
USH 12 AT PELL LAKE ROAD





PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

CONSTRUCTION DETAILS

SHEET

PRE_8

E

FILE NAME : I:\68977\C3D\38390373\020221-CD.DWG
LAYOUT NAME - NIPPERSINK

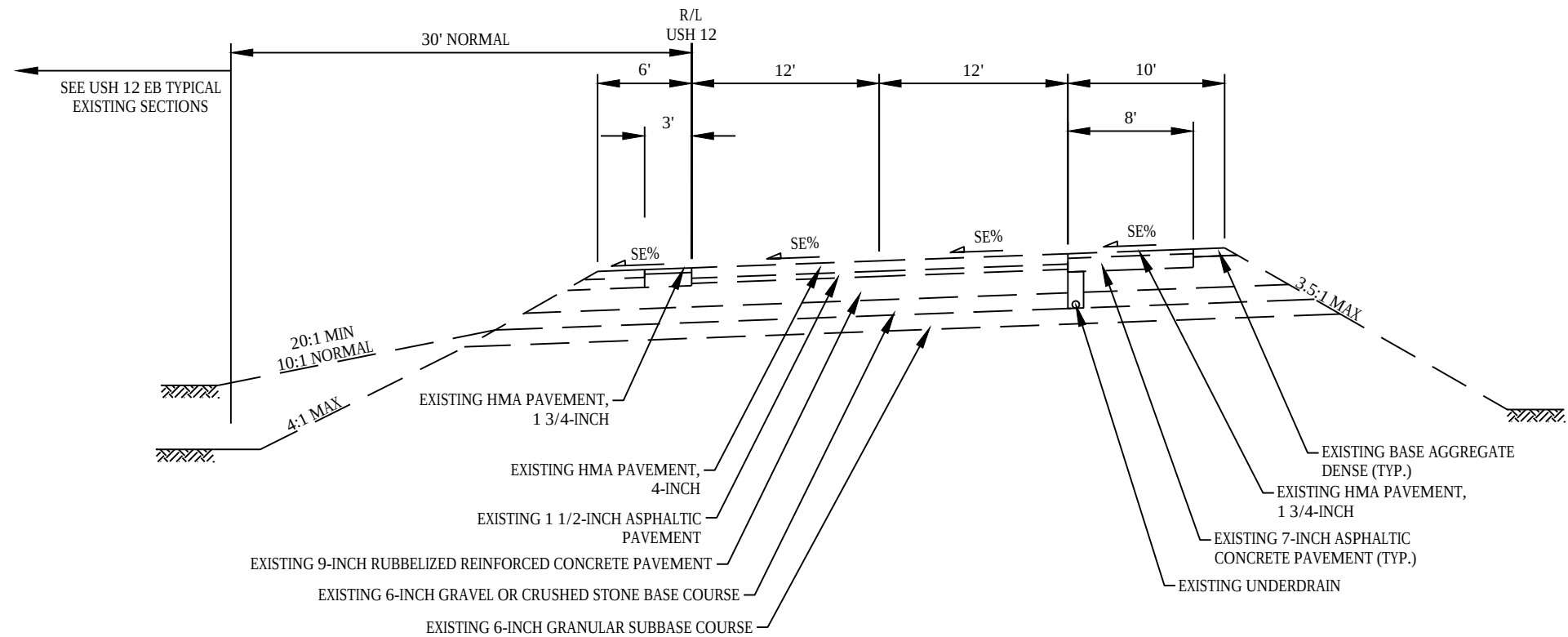
PLOT DATE : 6/28/2019 9:03 AM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN=40 FT

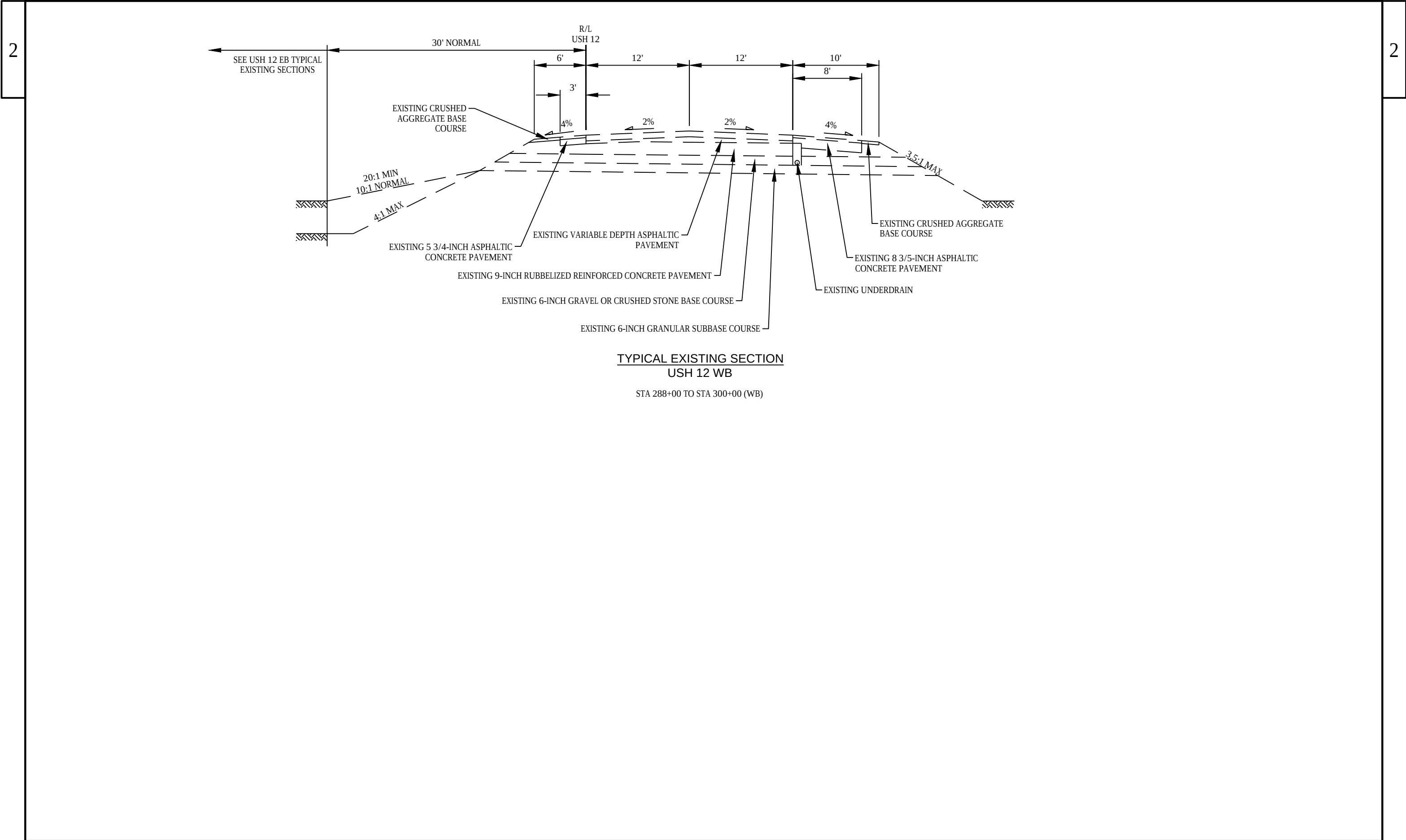
WISDOT/CADDs SHEET 42



TYPICAL EXISTING SECTION
USH 12 WB

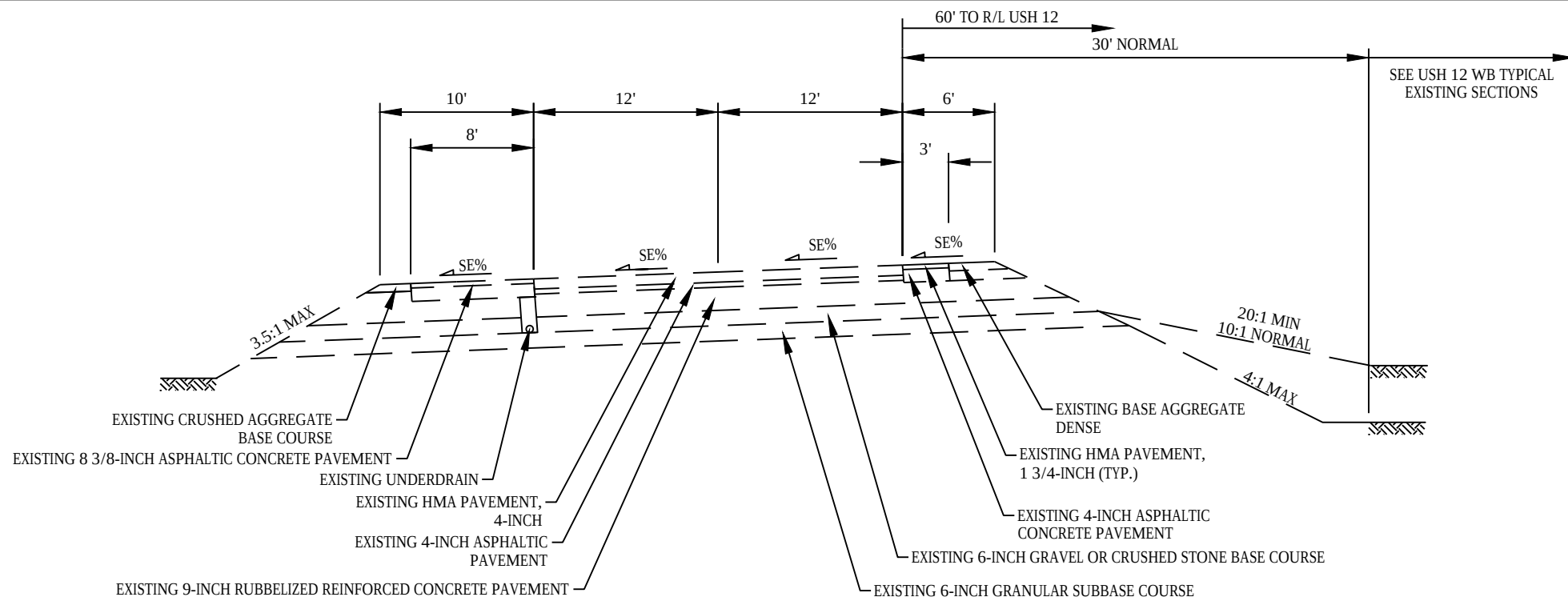
STA 204+67 TO STA 210+68 (WB)
STA 380+42 TO STA 388+22 (WB)

STATION	SE SHOULDER		
	LANE	OUTSIDE SHOULDER	MEDIAN SHOULDER
STA 204+67 TO STA 210+68 (WB)	-5.6%	-5.6%	-5.6%
STA 380+42 TO STA 388+22 (WB)	-2.0%	-2.0%	-6.0%



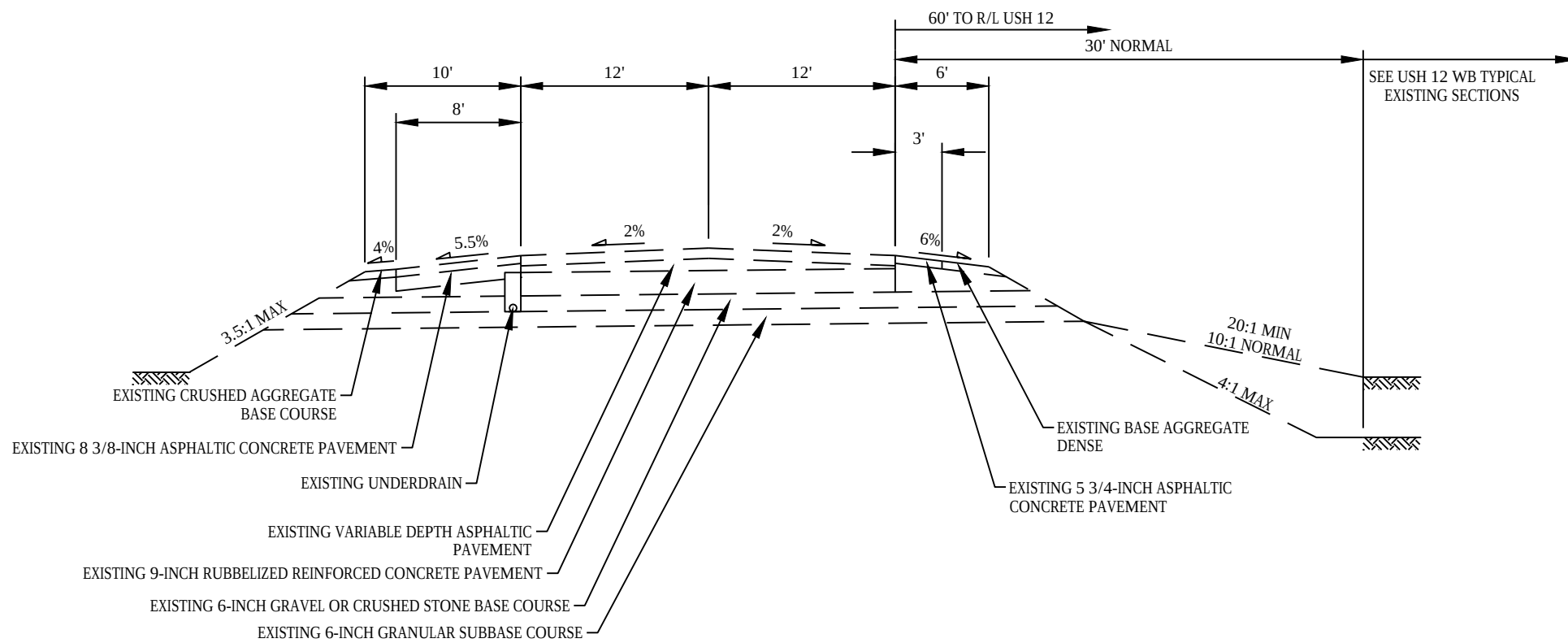
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2



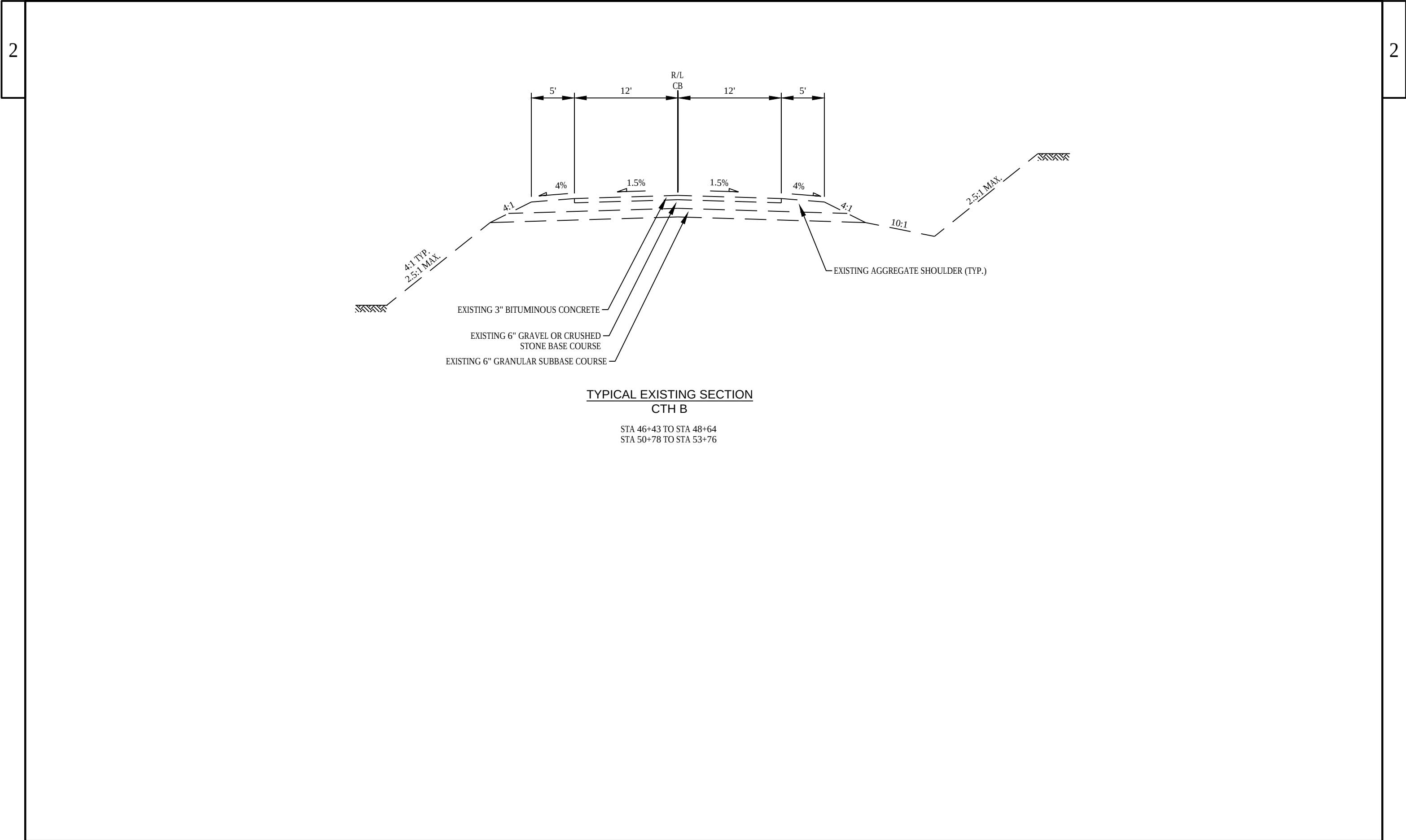
TYPICAL EXISTING SECTION
USH 12 EB

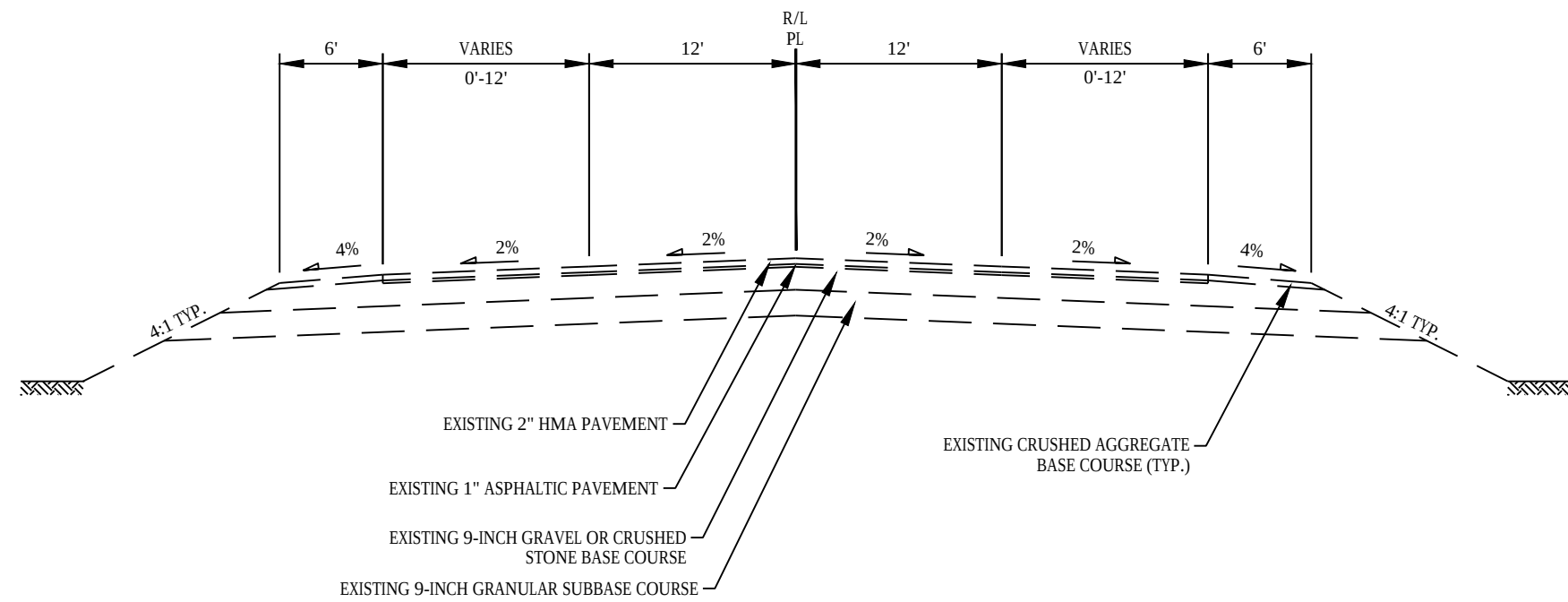
STA 208+37 TO STA 214+14 (EB)
STA 381+90 TO STA 388+04 (EB)



TYPICAL EXISTING SECTION
USH 12 EB

STA 289+12 TO STA 303+00 (EB)

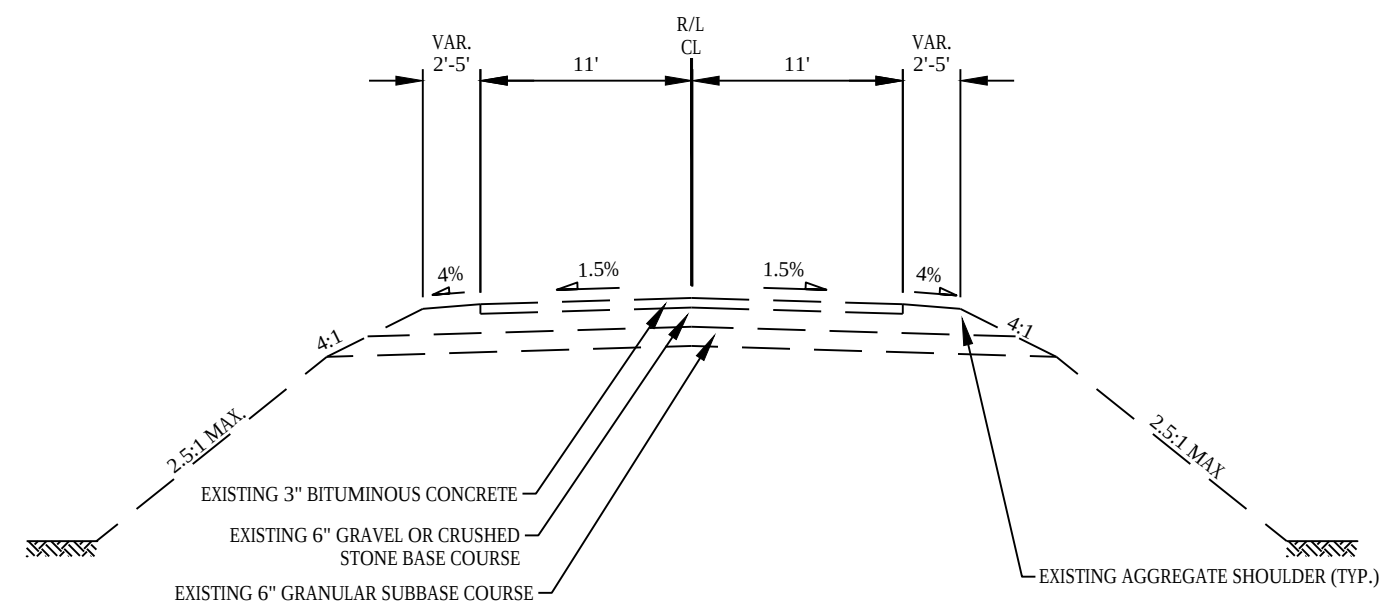




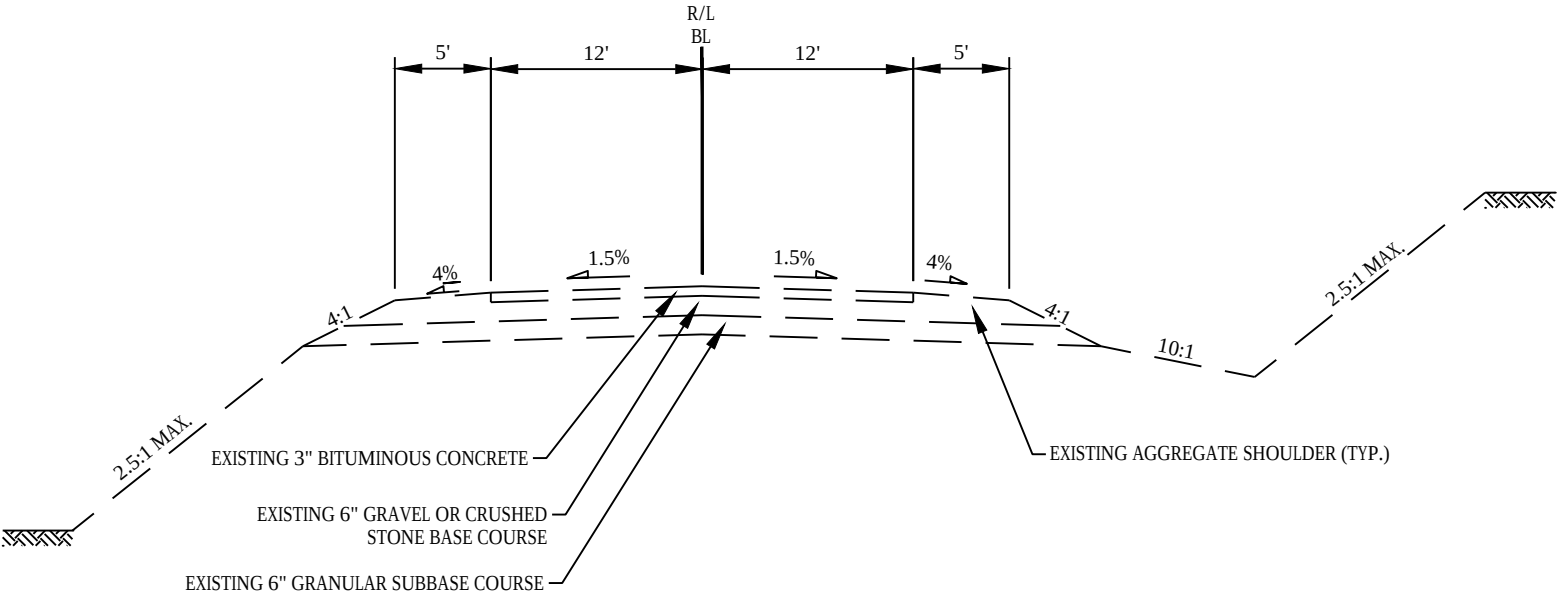
NOTE:
BRIDGE PIERS ADJACENT TO ROADWAY
STA 13+95.00 TO STA 18+08.09. SEE
STRUCTURE PLANS FOR DETAILS.

TYPICAL EXISTING SECTION
PELL LAKE DRIVE

STA13+95 TO STA 20+25

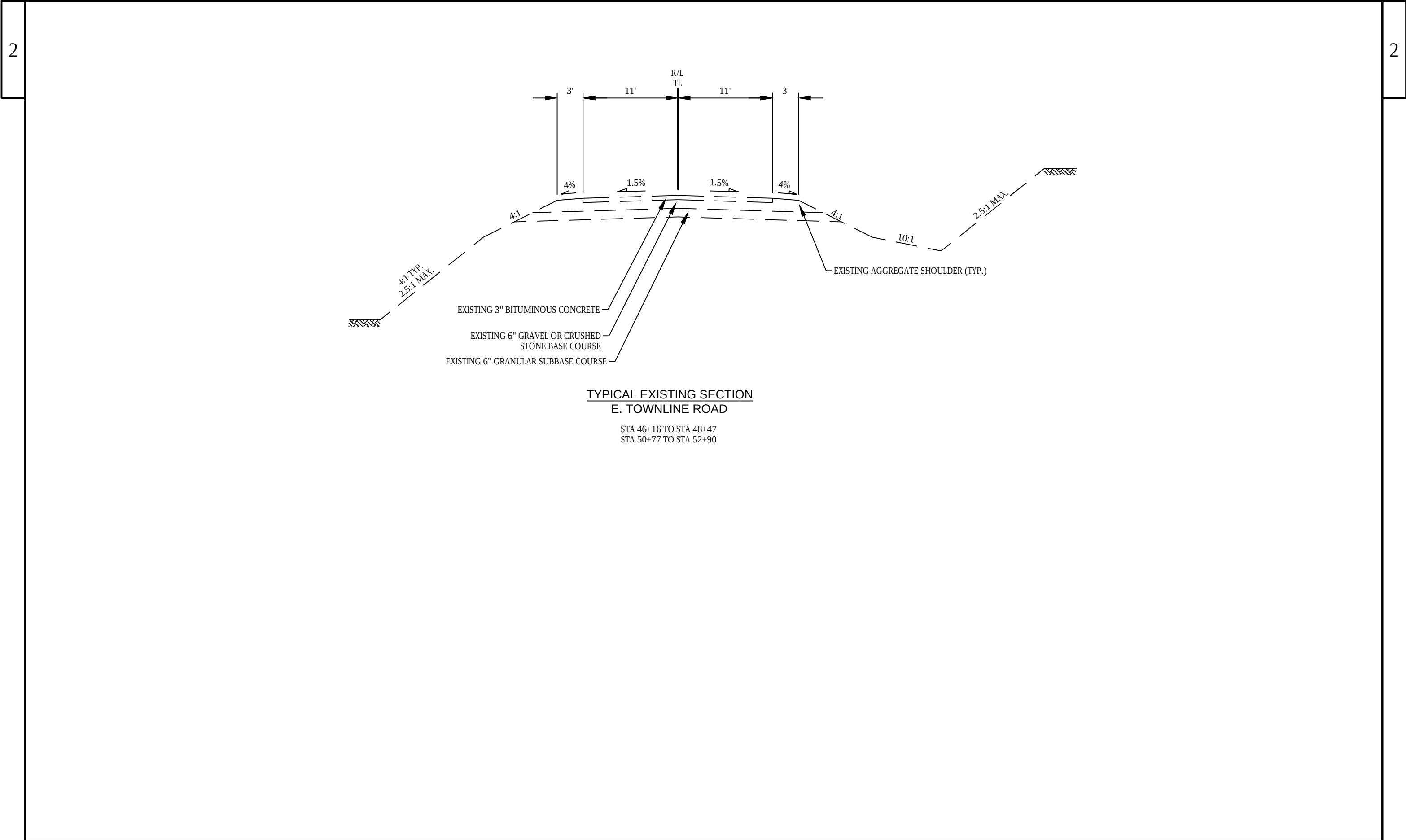


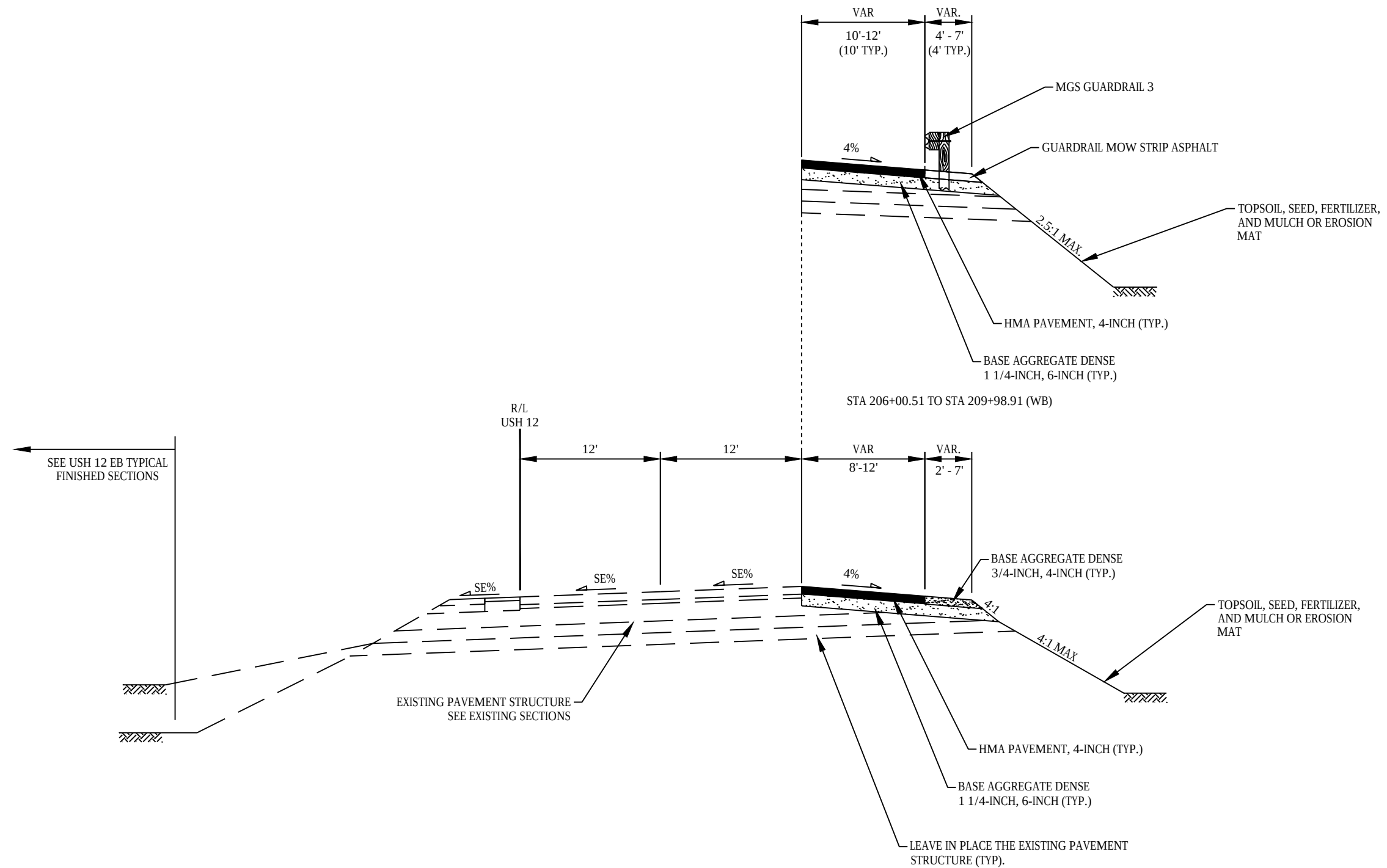
TYPICAL EXISTING SECTION
CLOVER ROAD
STA 45+17 TO STA 48+44
STA 50+81 TO STA 55+56



TYPICAL EXISTING SECTION
N. BLOOMFIELD ROAD

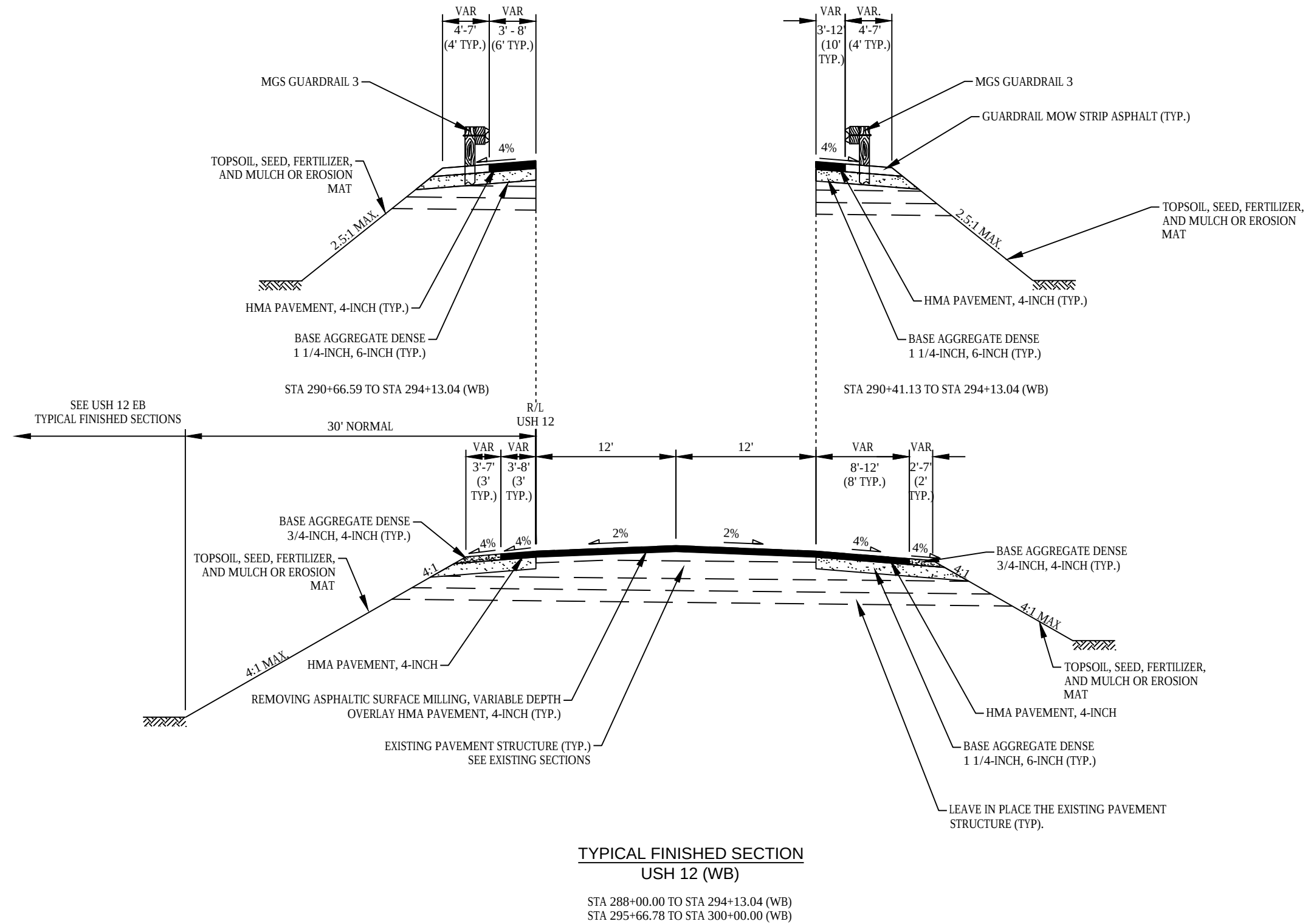
STA 46+62 TO STA 47+82
STA 51+15 TO STA 53+93



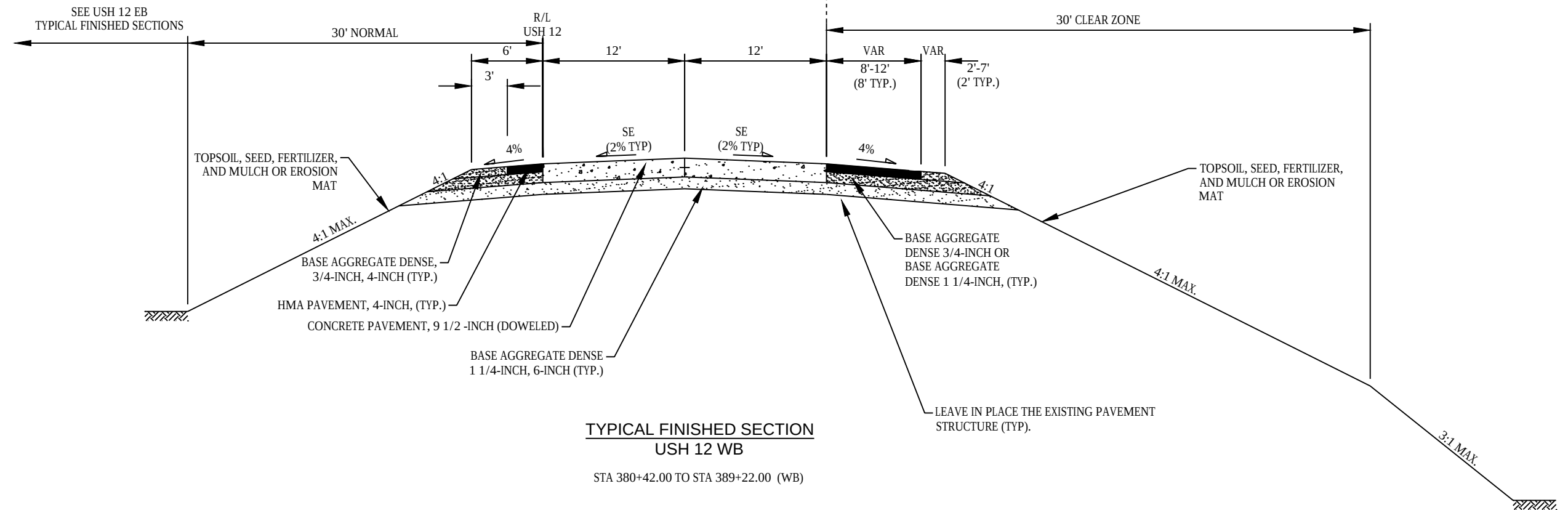


**TYPICAL FINISHED SECTION
USH 12 WB**

STA 204+67.58 TO STA 210+68.00 (WB)



SEE PLAN: CLOVER ROAD FOR
SUPERELEVATION ROAD DETAILS



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TYPICAL FINISHED SECTIONS

SHEET PRE_19

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\020401-TS.DWG
LAYOUT NAME - 020403-ts

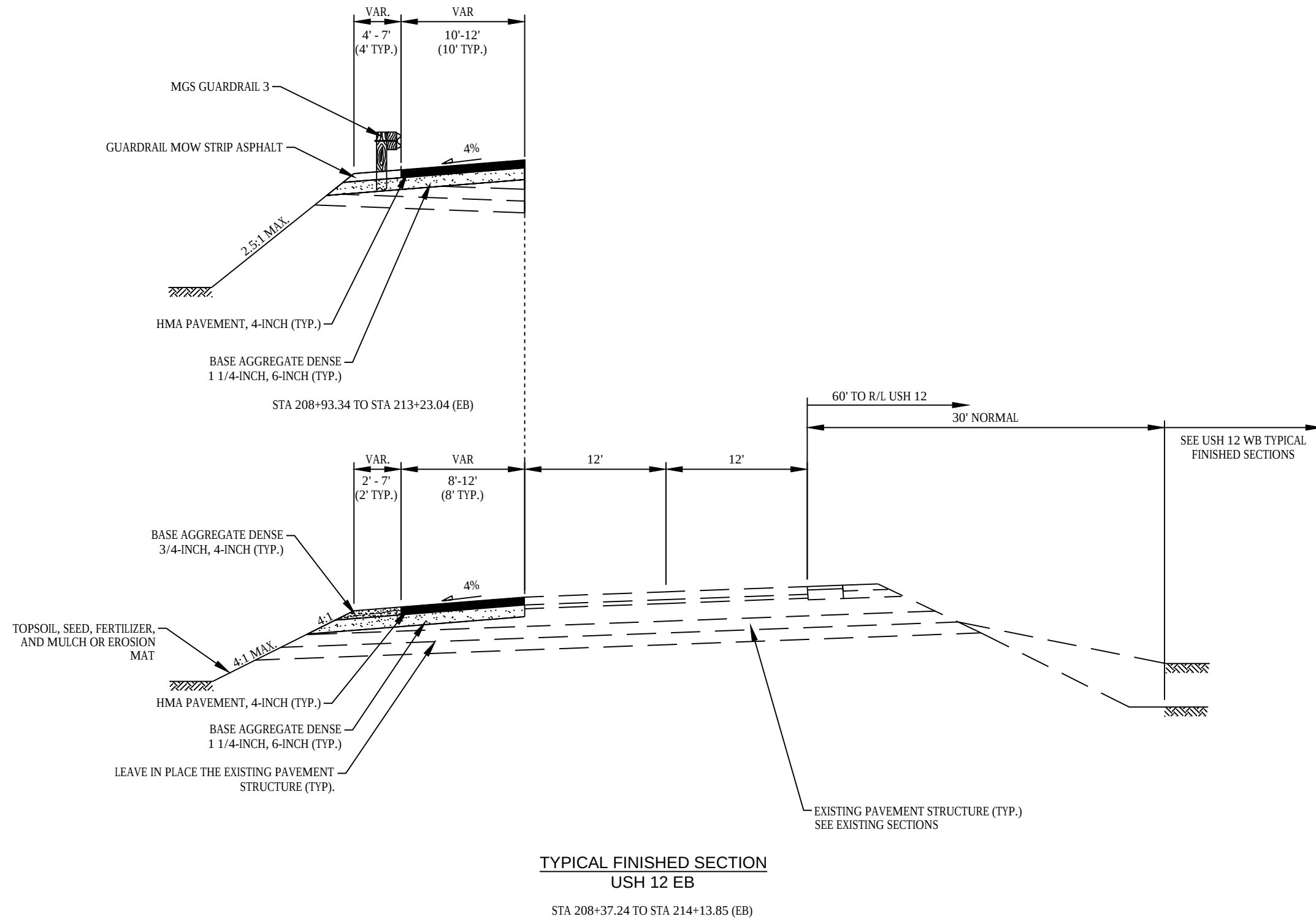
PLOT DATE : 6/28/2019 9:00 AM

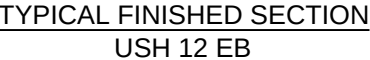
PLOT BY : CECELIA KASTEN

PLOT NAME :

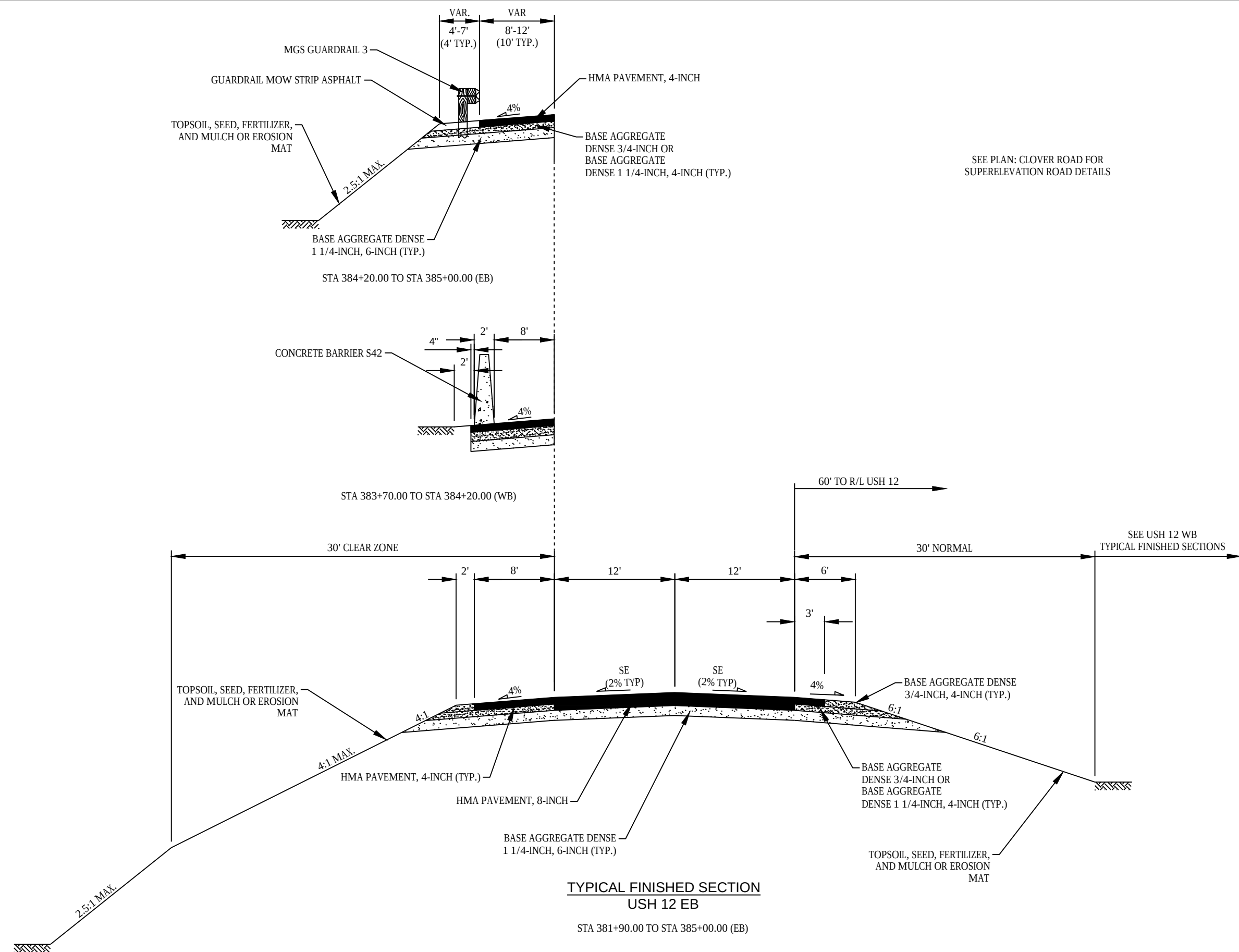
PLOT SCALE : 1 IN:10 FT

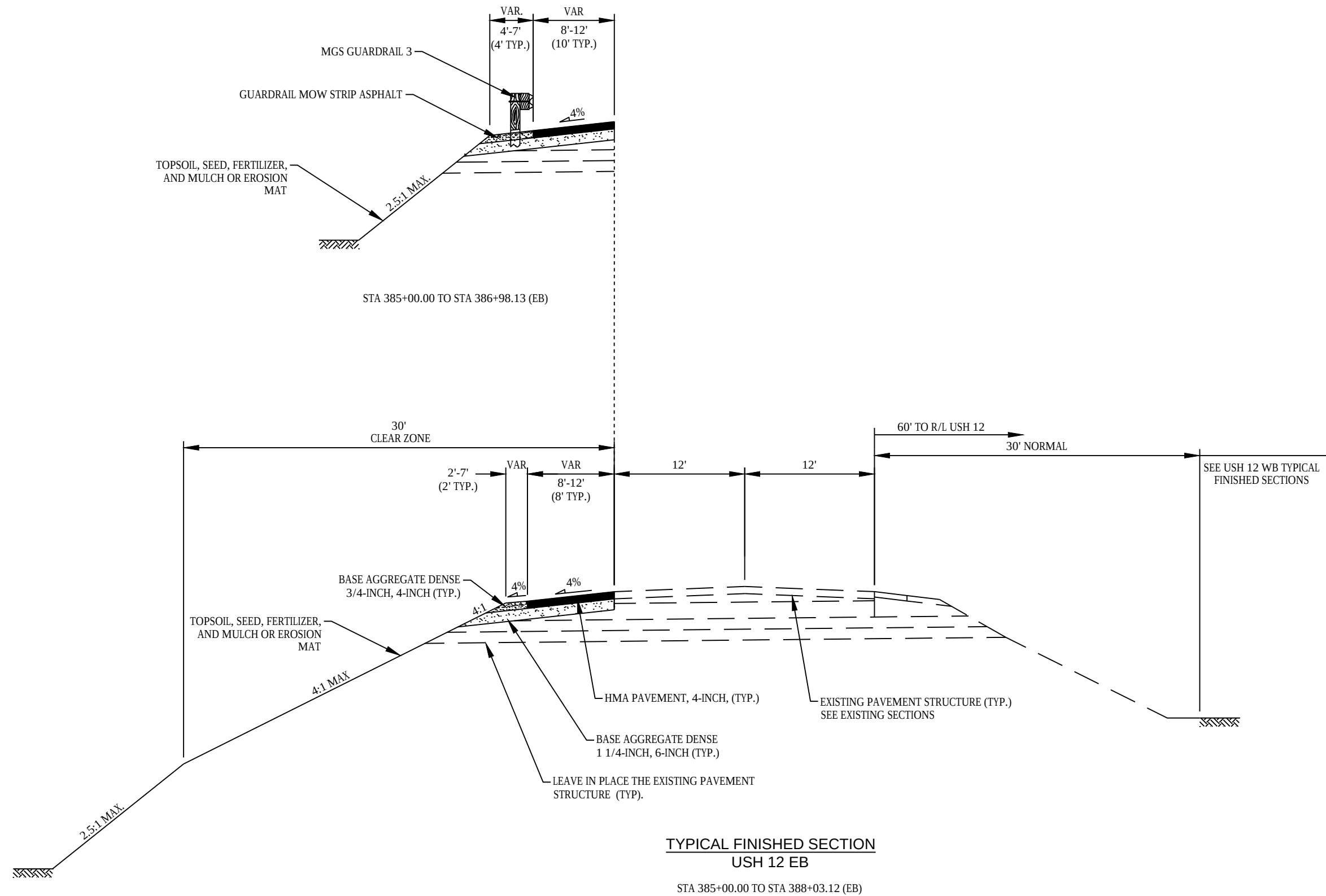
WISDOT/CADDs SHEET 42

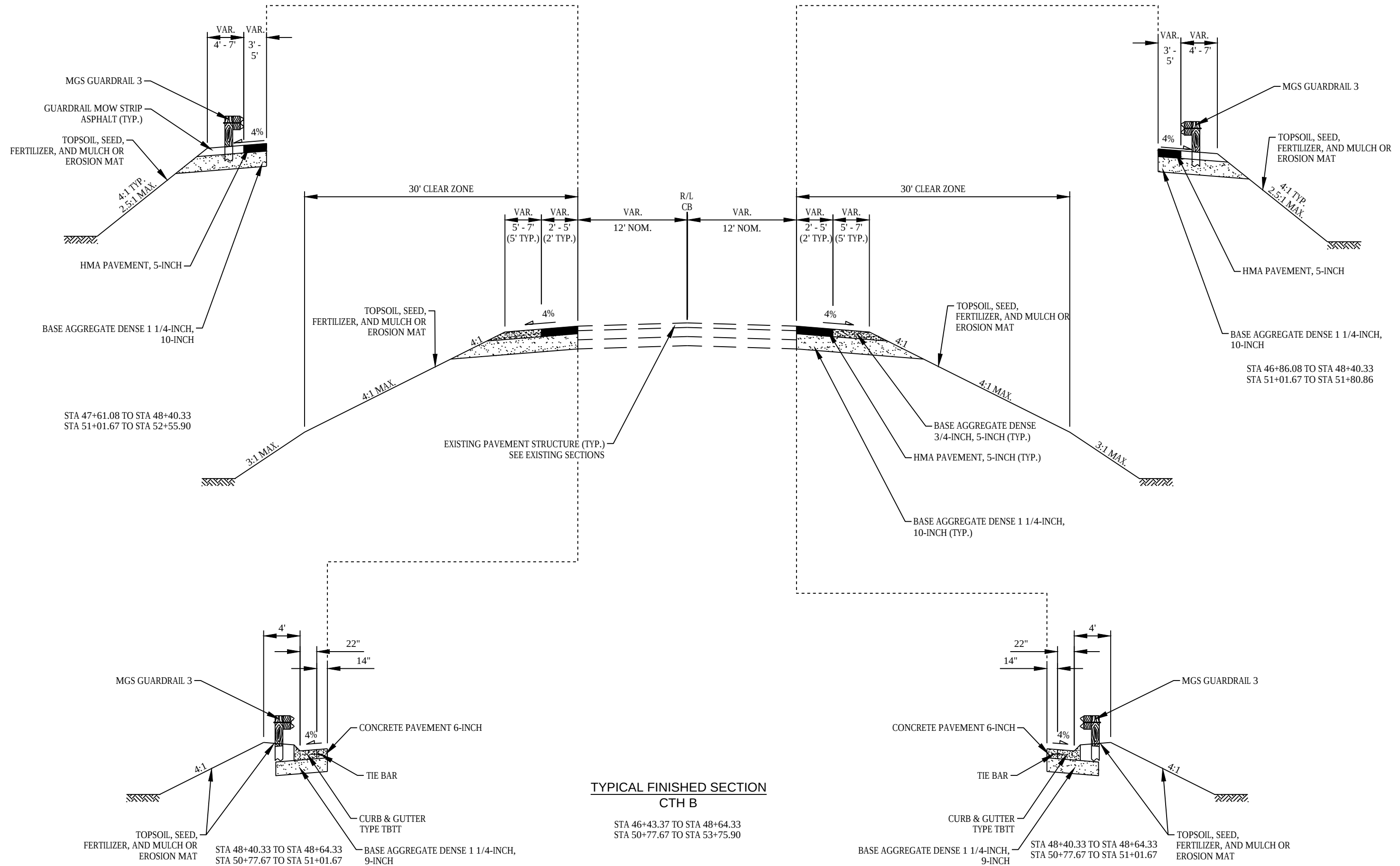




STA 289+11.78 TO STA 294+63.79 (EB)
STA 296+17.53 TO STA 303+00.00 (EB)







PROJECT NO: 3839-03-73

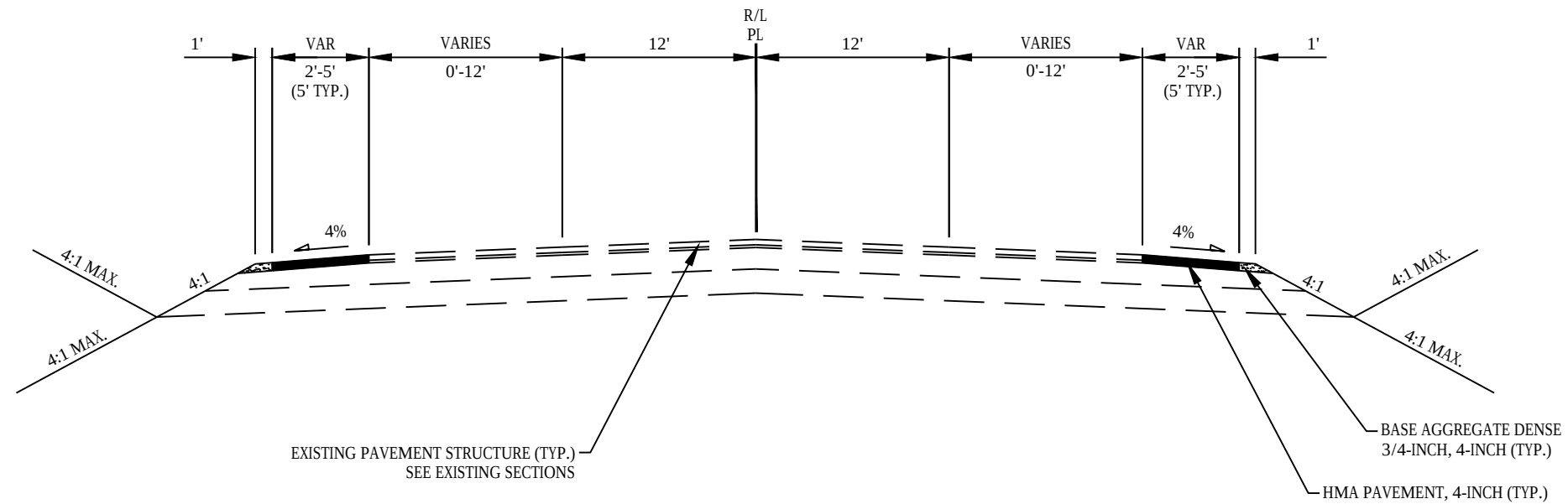
HWY: USH 12

COUNTY: WALWORTH

TYPICAL FINISHED SECTIONS

SHEET PRE_24

E



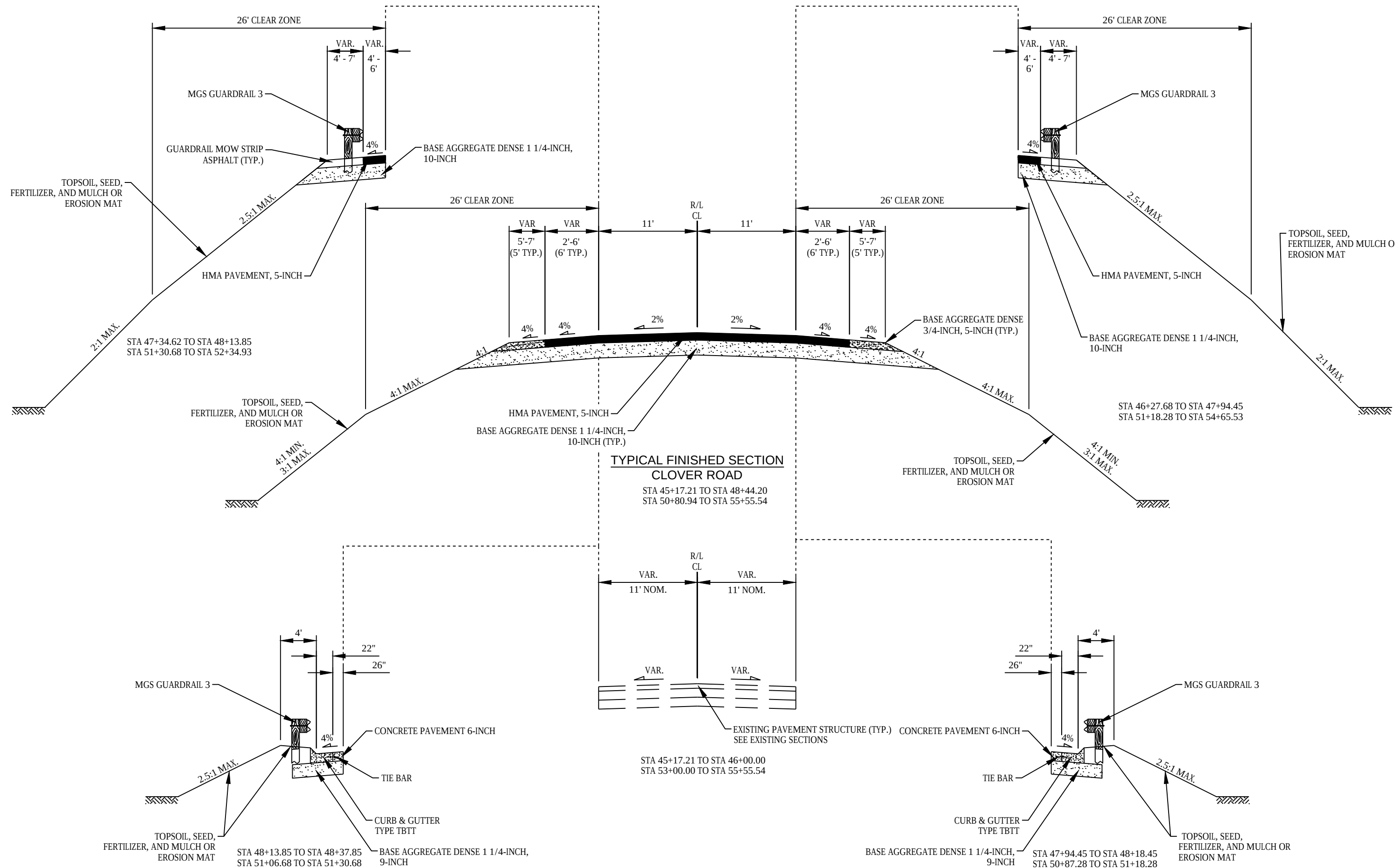
NOTE: BRIDGE PIERS ADJACENT TO ROADWAY
STA 13+95.00 TO STA 18+08.09.
SEE STRUCTURE PLANS FOR DETAILS.

TYPICAL FINISHED SECTION
PELL LAKE DRIVE

STA 13+95.00 TO STA 20+25.00

2

2



PROJECT NO:	3839-03-73
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HWY: USH 12

COUNTY: WALWORTH

TYPICAL FINISHED SECTIONS

SHEET PRE 26

	E
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FILE NAME : I:\68977\C3D\38390373\SHEETSPLAN\020421-TS.DWG
LAYOUT NAME - 020423-ts

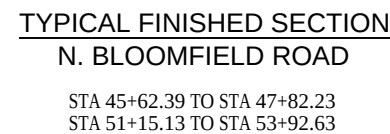
PLOT DATE : 6/28/2019 9:00 AM

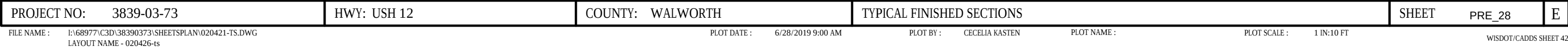
PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42





LEGEND

- 

RIPRAP MEDIUM
- 

INLET PROTECTION
- 

CULVERT PIPE CHECKS
- 

SURFACE WATER FLOW
- 

EROSION MAT CLASS I TYPE A
- 

EROSION MAT CLASS I TYPE B







PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_32	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_34	E
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MATCHLINE STA 230+75

MATCHLINE STA 245+50



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_35	E
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MATCHLINE STA 245+50

MATCHLINE STA 260+25



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET PRE_37

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\022011-EC.DWG
LAYOUT NAME - 022013-ec

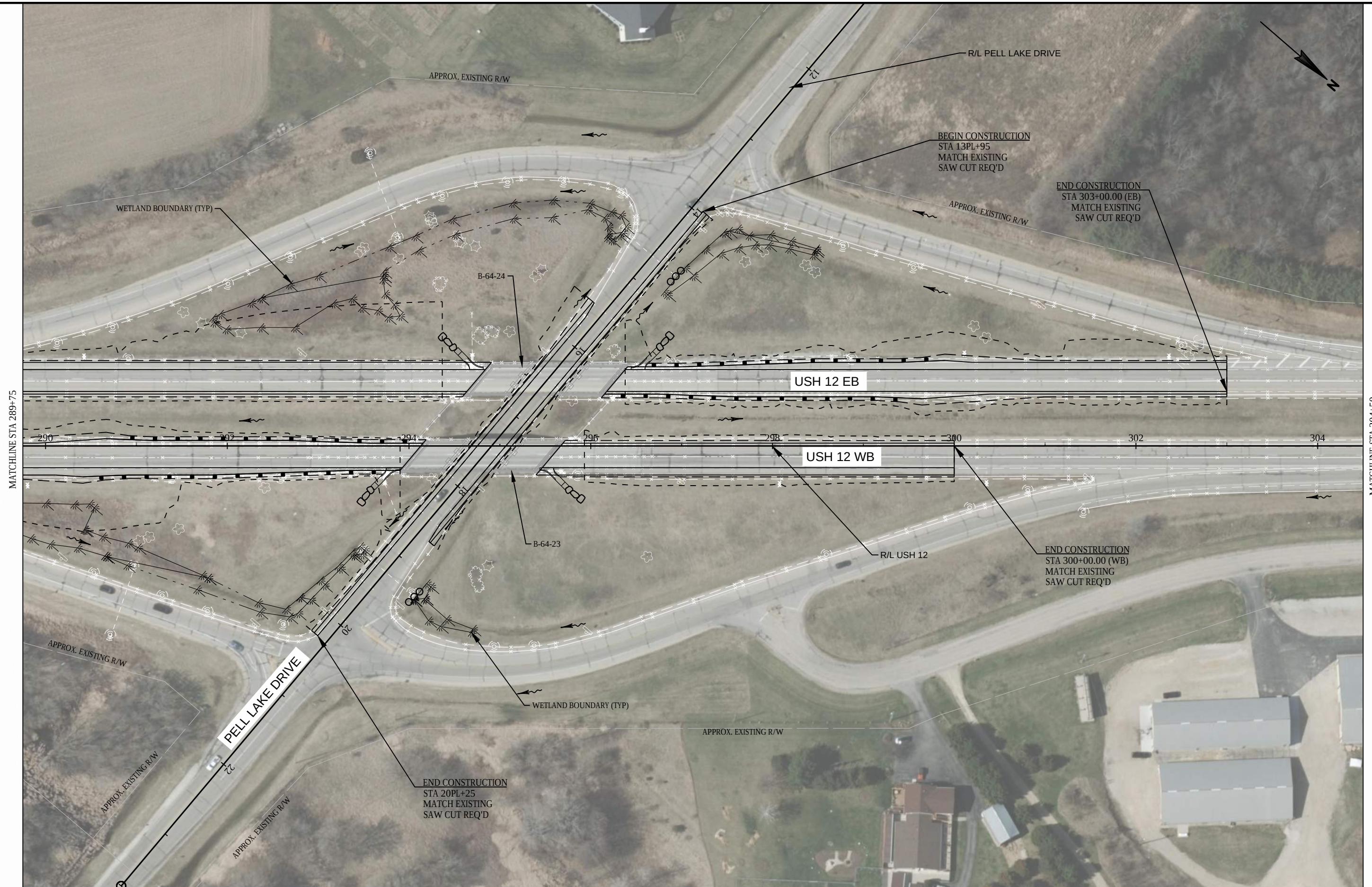
PLOT DATE : 6/30/2019 4:42 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET PRE_38

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\022011-EC.DWG
LAYOUT NAME - 022014-ec

PLOT DATE: 7/1/2019 12:23 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_39	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET PRE_40

E

FILE NAME : I:\68977\C3D\38390373\022016-EC.DWG
LAYOUT NAME - 022019-ec

PLOT DATE : 6/30/2019 4:46 PM

PLOT BY : CECILIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET PRE_41

E

FILE NAME: I:\68977\C3D\38390373\1\1\022016-EC.DWG
LAYOUT NAME - 022020-ec

PLOT DATE: 7/1/2019 12:46 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42

MATCHLINE STA 391+50



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_42	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET PRE_43

E

FILE NAME : I:\68977\C3D\38390373\1\1\022021-EC.DWG
LAYOUT NAME - 022025-ec

PLOT DATE : 6/30/2019 4:50 PM

PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42

2

2



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

EROSION CONTROL

SHEET	PRE_44
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E

FILE NAME : I:\68977\C3D\38390373\SHEETSPLAN\022026-EC.DWG
LAYOUT NAME - 022027-ec

PLOT DATE : 6/30/2019 4:53 PM

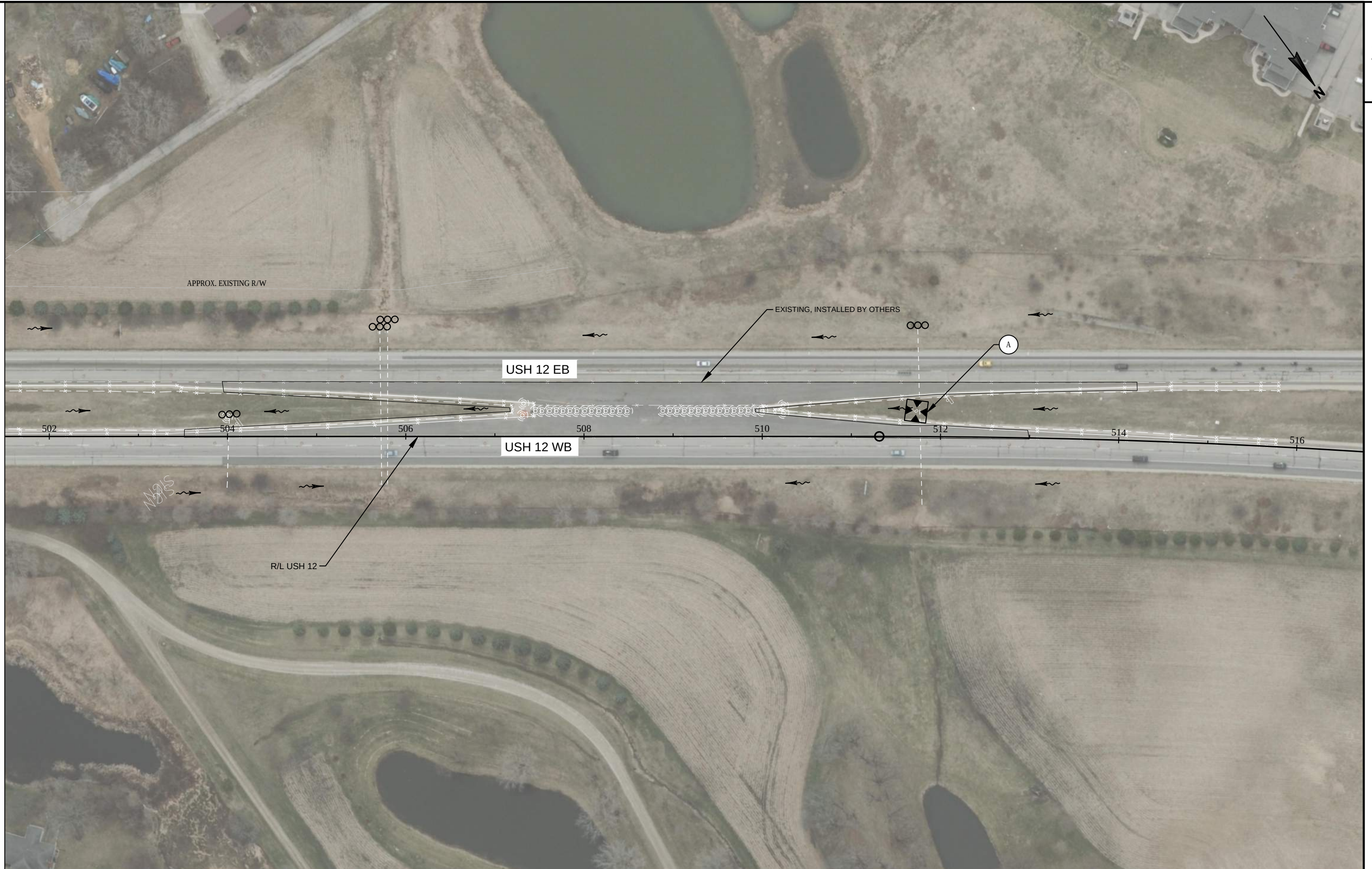
PLOT BY : CECELIA KASTEN

PLOT NAME :	PLOT SCALE :	1 IN:100 FT
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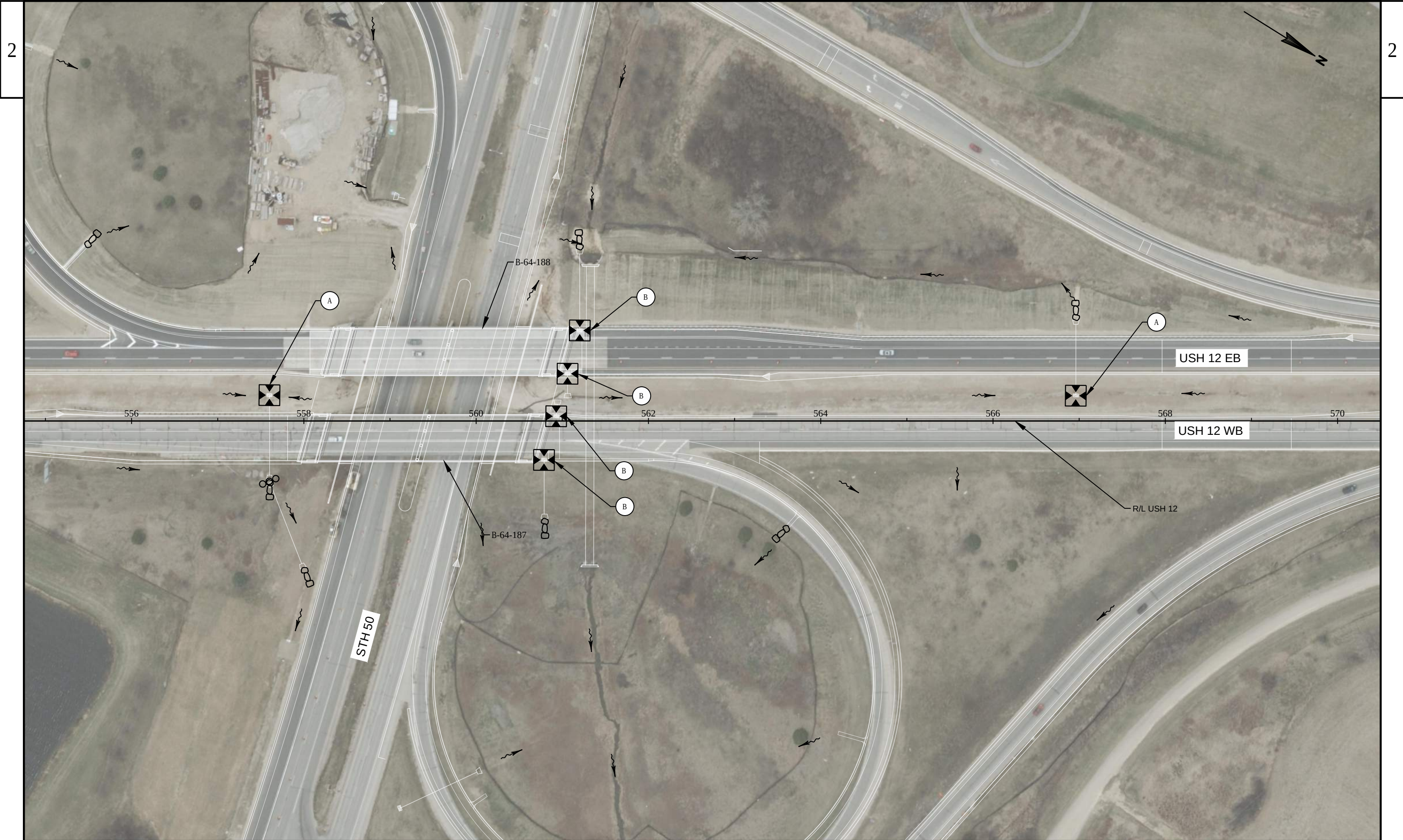
PLOT NAME : PLOT SCALE : 1 IN:100 FT WISDOT/CADDs SHEET 42

WISDOT/CADDS SHEET 42

MATCHLINE STA 501+50



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_45	E
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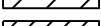
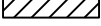


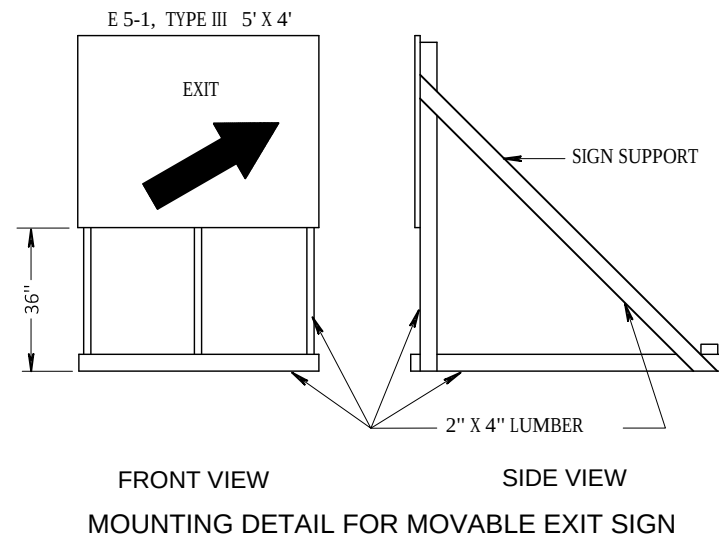
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	EROSION CONTROL	SHEET PRE_46	E
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GENERAL NOTES

- 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. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- 3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 4. FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
- 5. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
- 6. WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN IN THE STAGING PLANS, CONTINUE THE SAME TRAFFIC CONTROL FROM THE PREVIOUS SHEET.
- 7. TEMPORARY RAISED PAVEMENT MARKERS WHERE SHOWN SHALL BE PLACED AS WEATHER PERMITS OR AS DIRECTED BY THE ENGINEER.
- 8. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION.

LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WTH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  FLASHING ARROW BOARD
-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  DELINEATOR FLEXIBLE/TUBULAR MARKER
-  WORK AREA
-  TRAFFIC CONTROL COVERING SIGNS TYPE I
-  TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
-  DIRECTION OF TRAFFIC
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
-  TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
-  TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
-  TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
-  TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

PLAN: TRAFFIC CONTROL DETAILS

SHEET PRE_48

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\025102-TC.DWG
LAYOUT NAME - 025102-tc

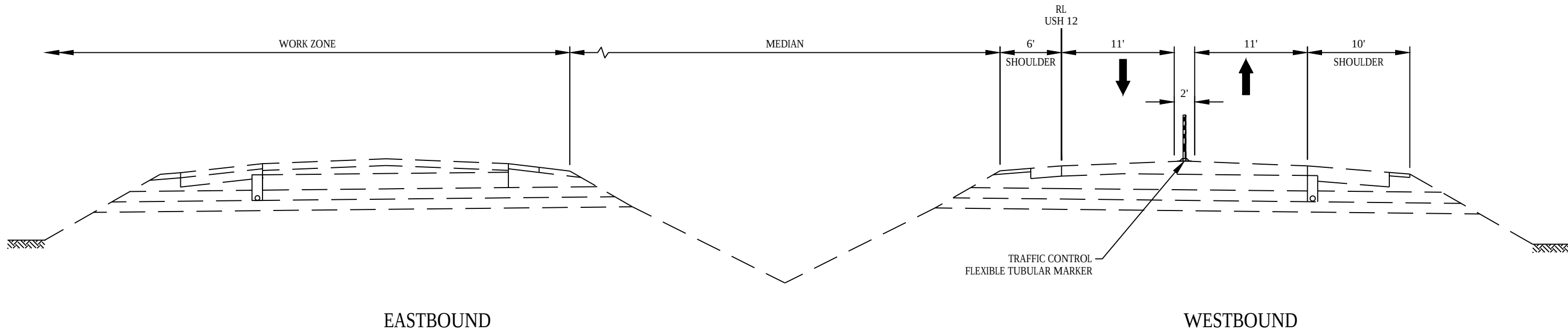
PLOT DATE : 6/30/2019 5:28 PM

PLOT BY : CECELIA KASTEN

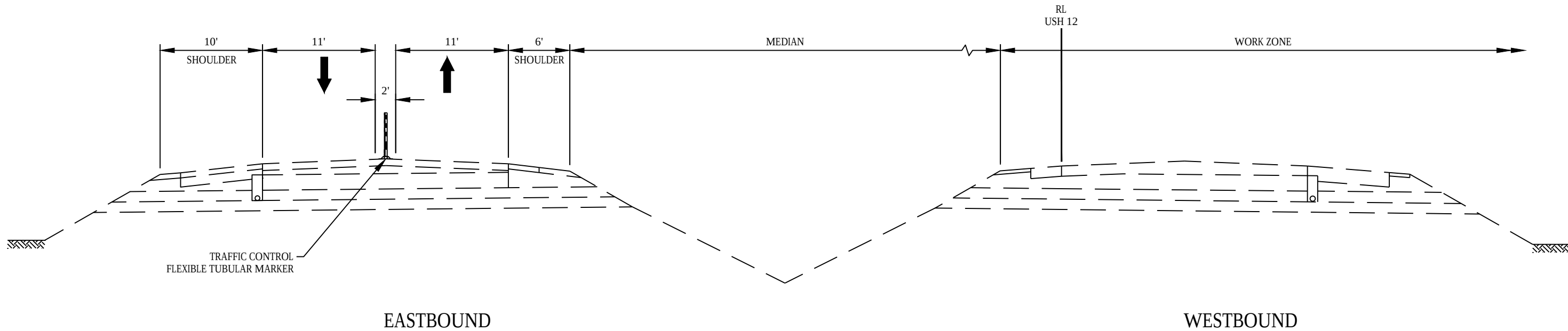
PLOT NAME :

PLOT SCALE : 1 IN:10 FT

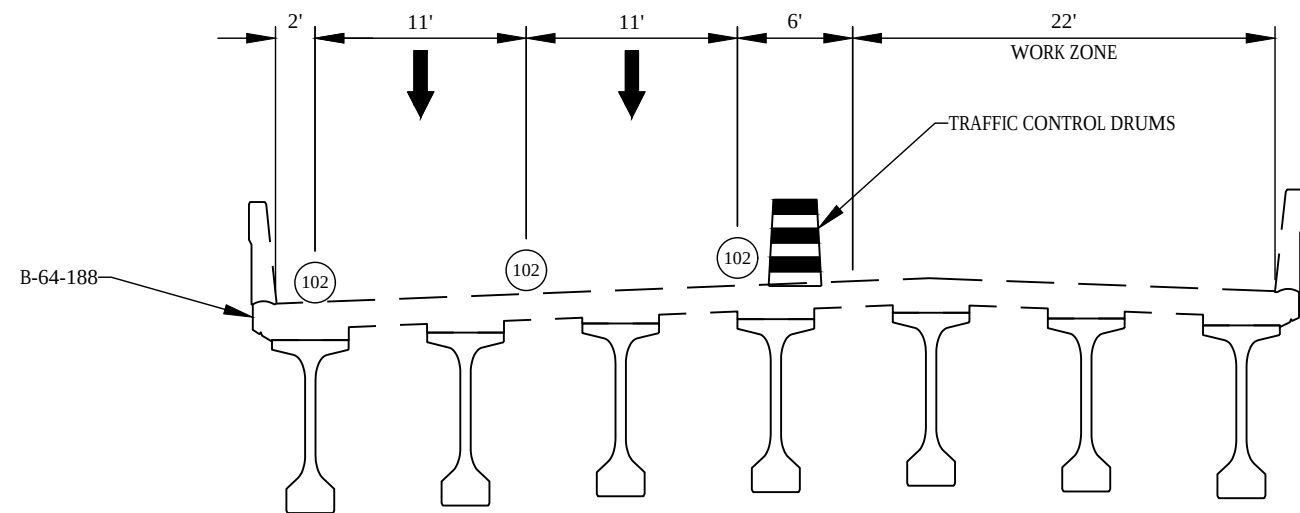
WISDOT/CADDs SHEET 42



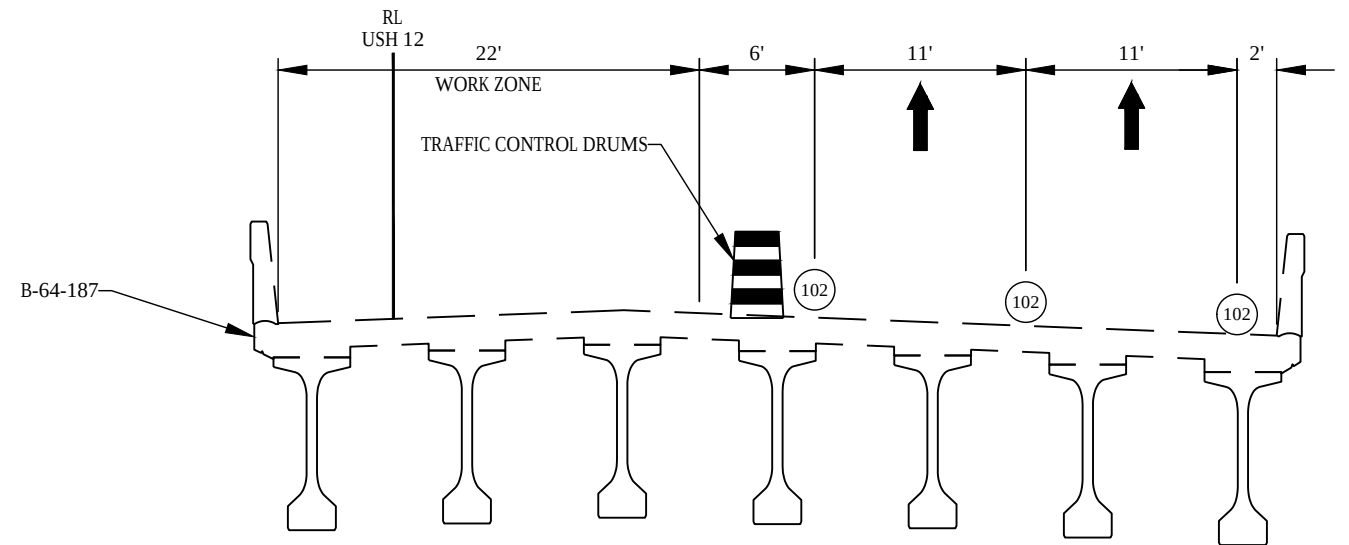
USH 12 TRAFFIC - STAGE 1



USH 12 TRAFFIC - STAGE 2

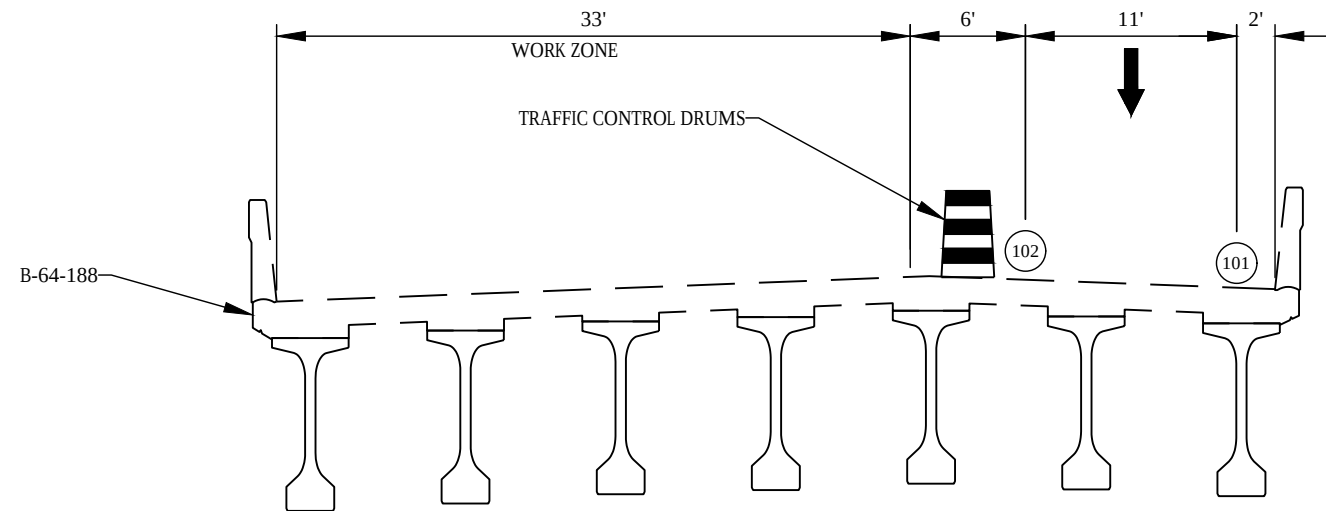


EASTBOUND

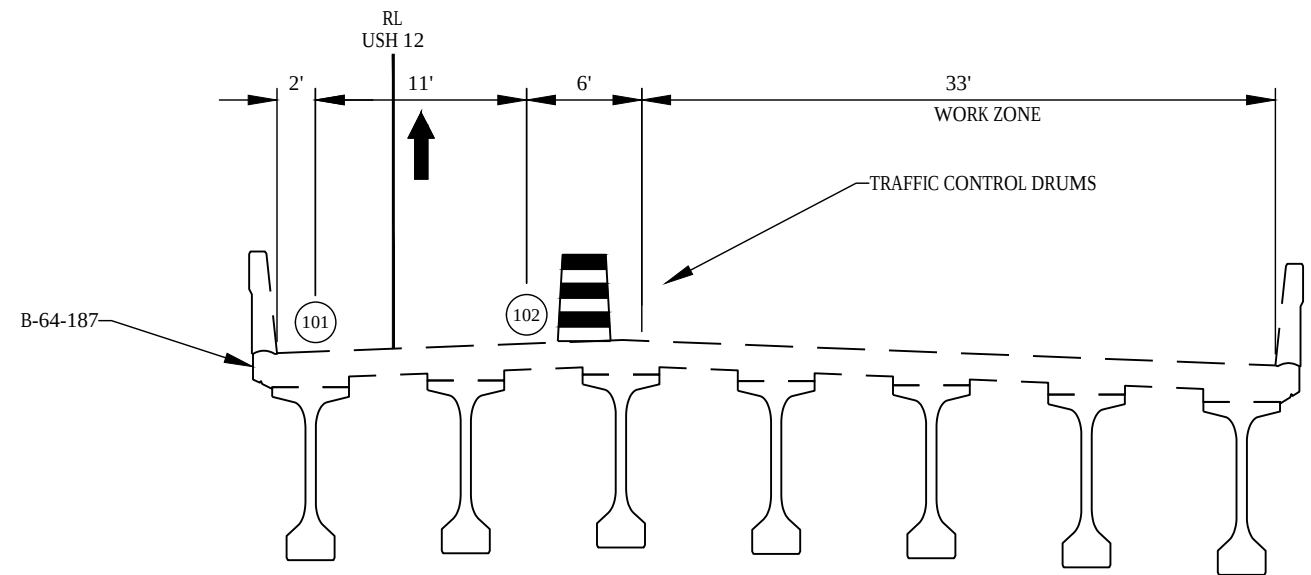


WESTBOUND

USH 12 TRAFFIC - STAGE 1A



EASTBOUND

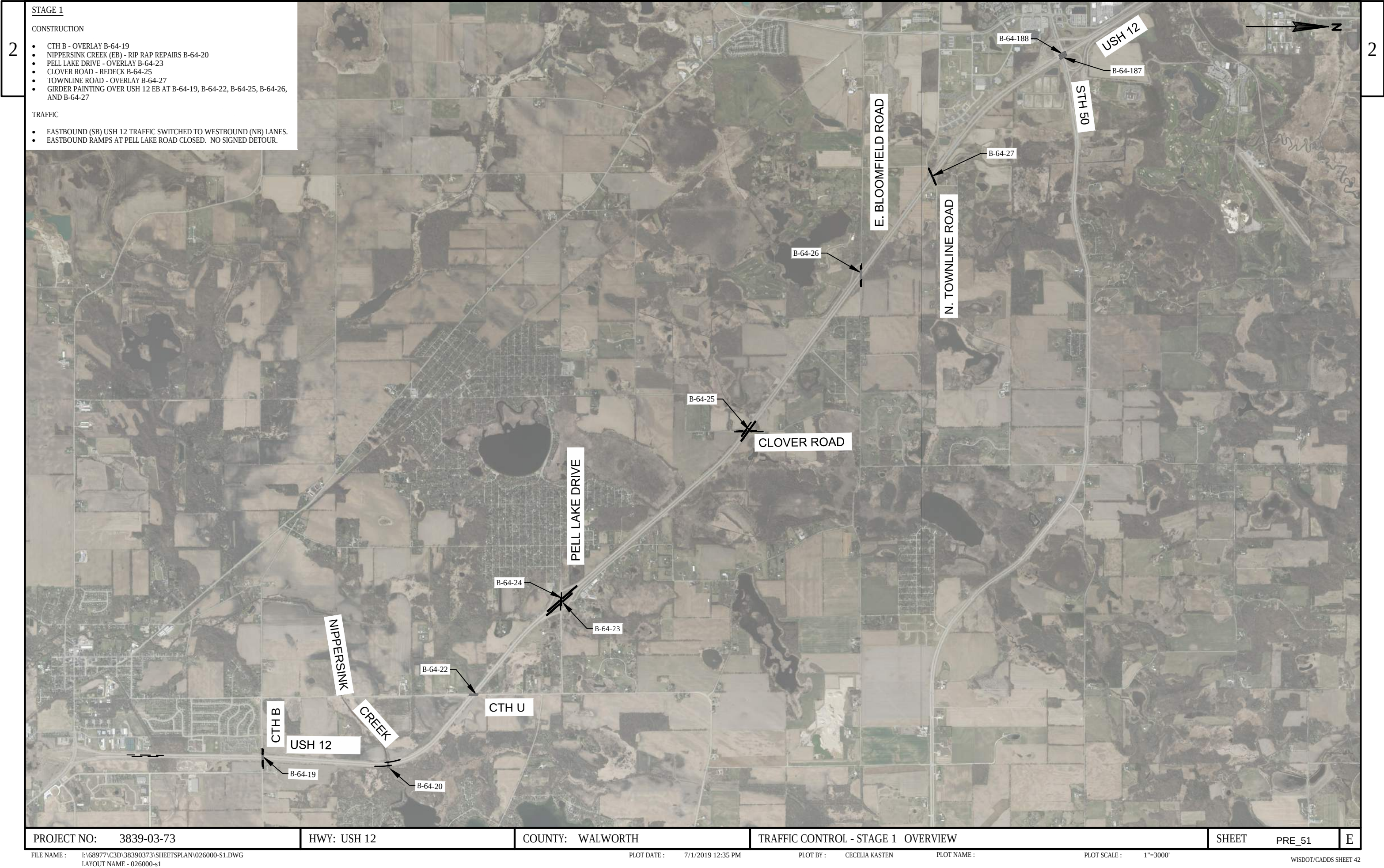


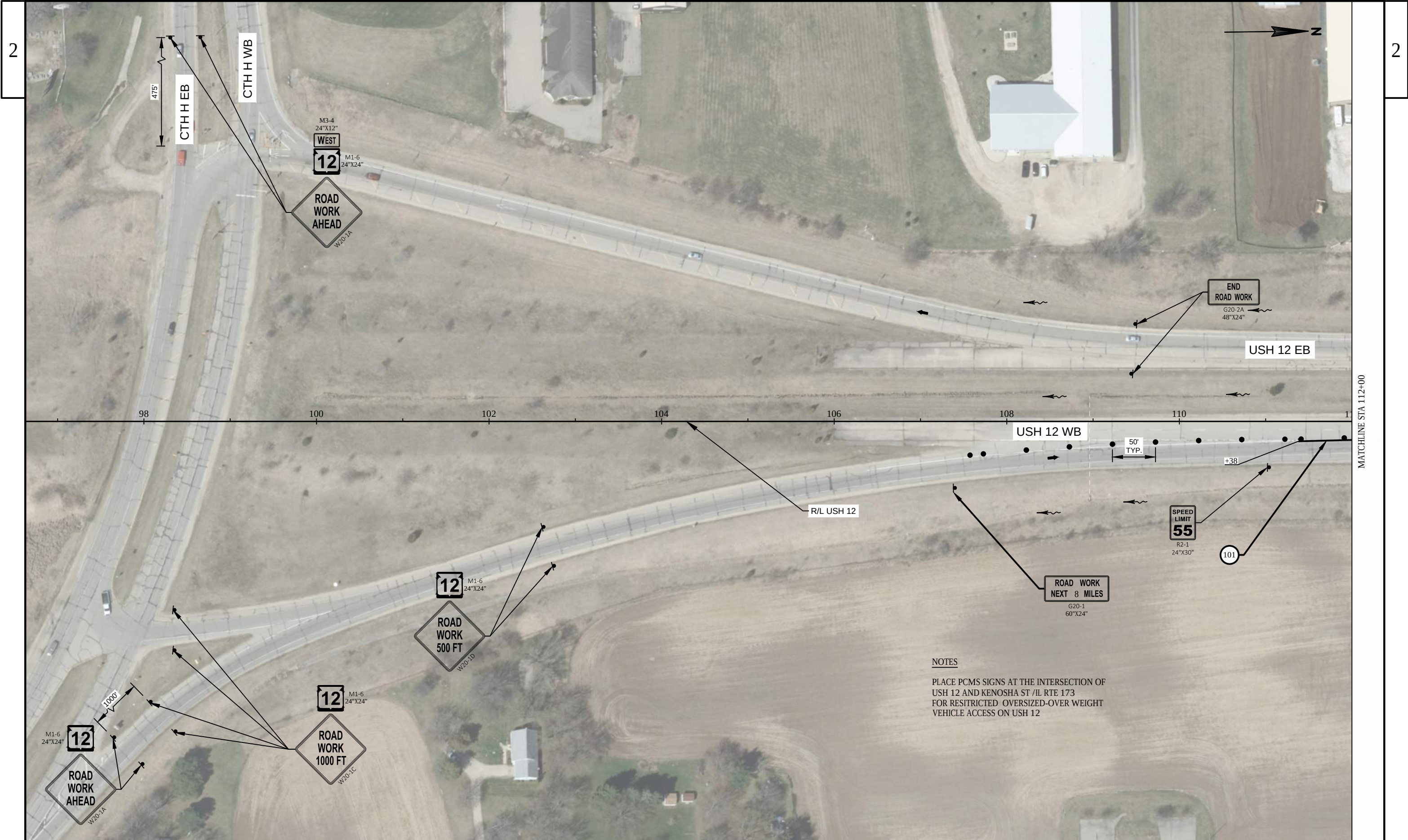
WESTBOUND

USH 12 TRAFFIC - STAGE 1B

LEGEND

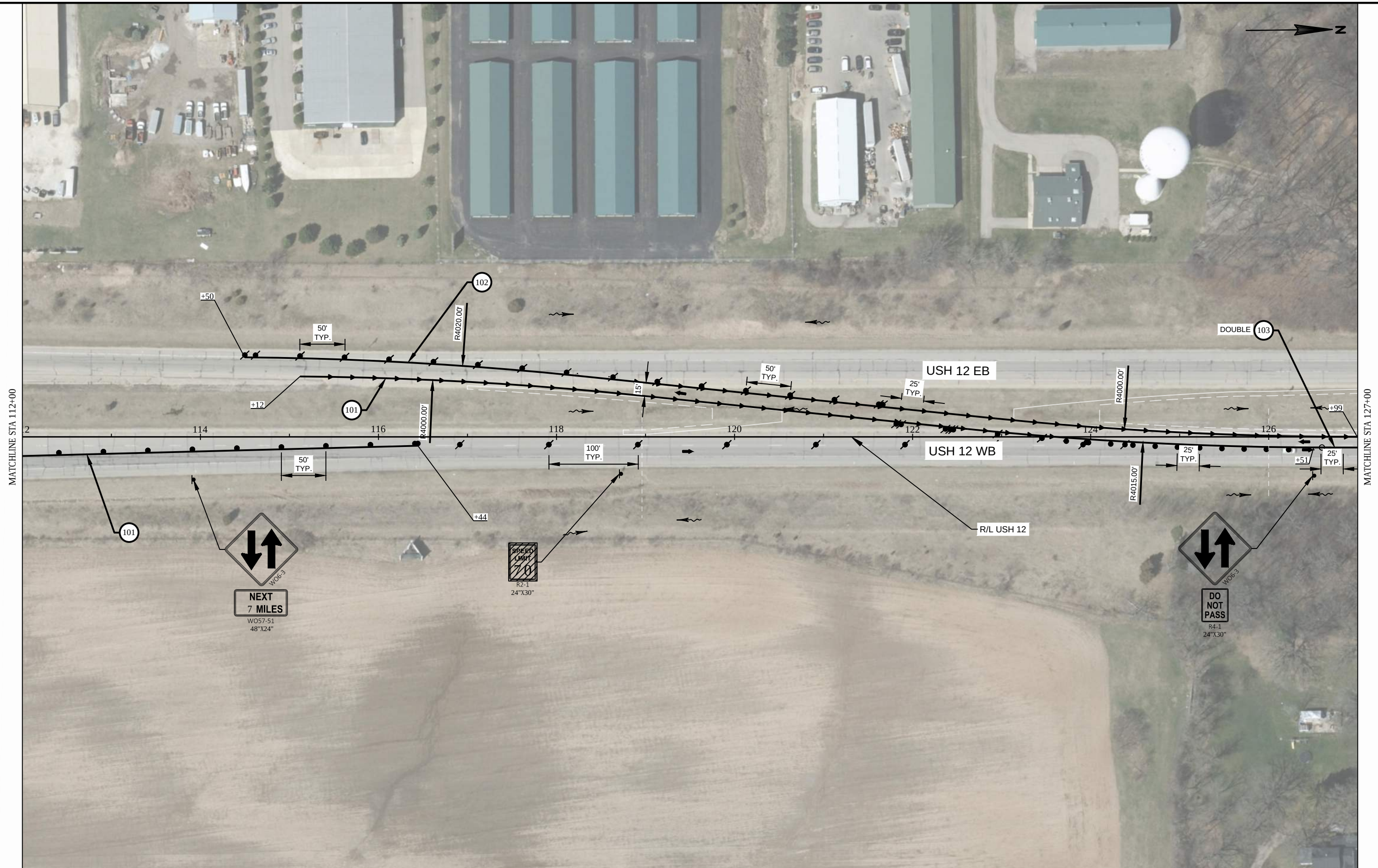
- 101 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 102 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)





PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET PRE_52	E
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NOTES
PLACE PCMS SIGNS AT THE INTERSECTION OF
USH 12 AND KENOSHA ST /IL RTE 173
FOR RESITRICTED OVERSIZED-OVER WEIGHT
VEHICLE ACCESS ON USH 12



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_53

E

FILE NAME: I:\68977\C3D\38390373\1\026001-S1.DWG
LAYOUT NAME - 026002-s1

PLOT DATE: 6/30/2019 5:34 PM

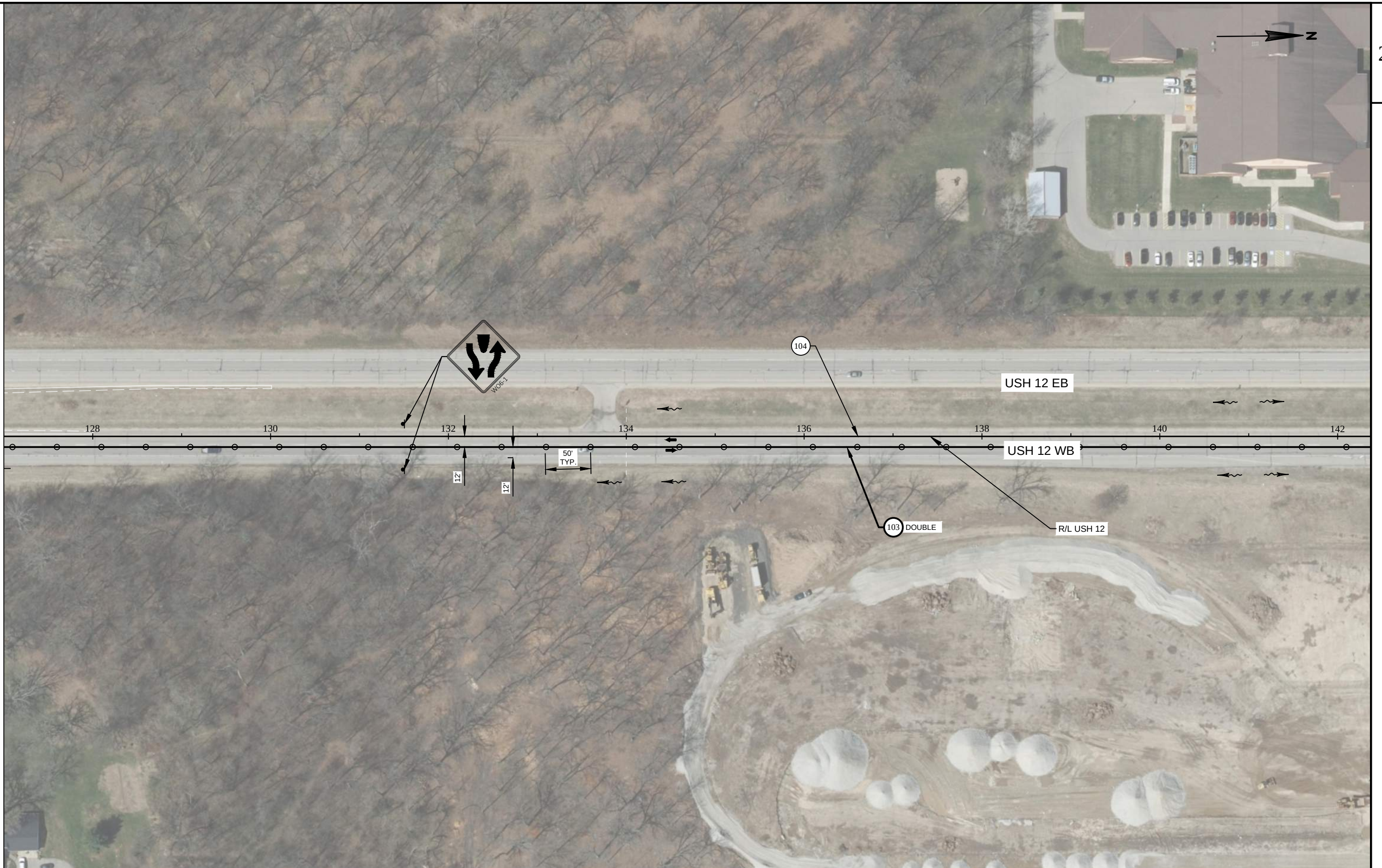
PLOT BY: CECELIA KASTEN

PLOT NAME:

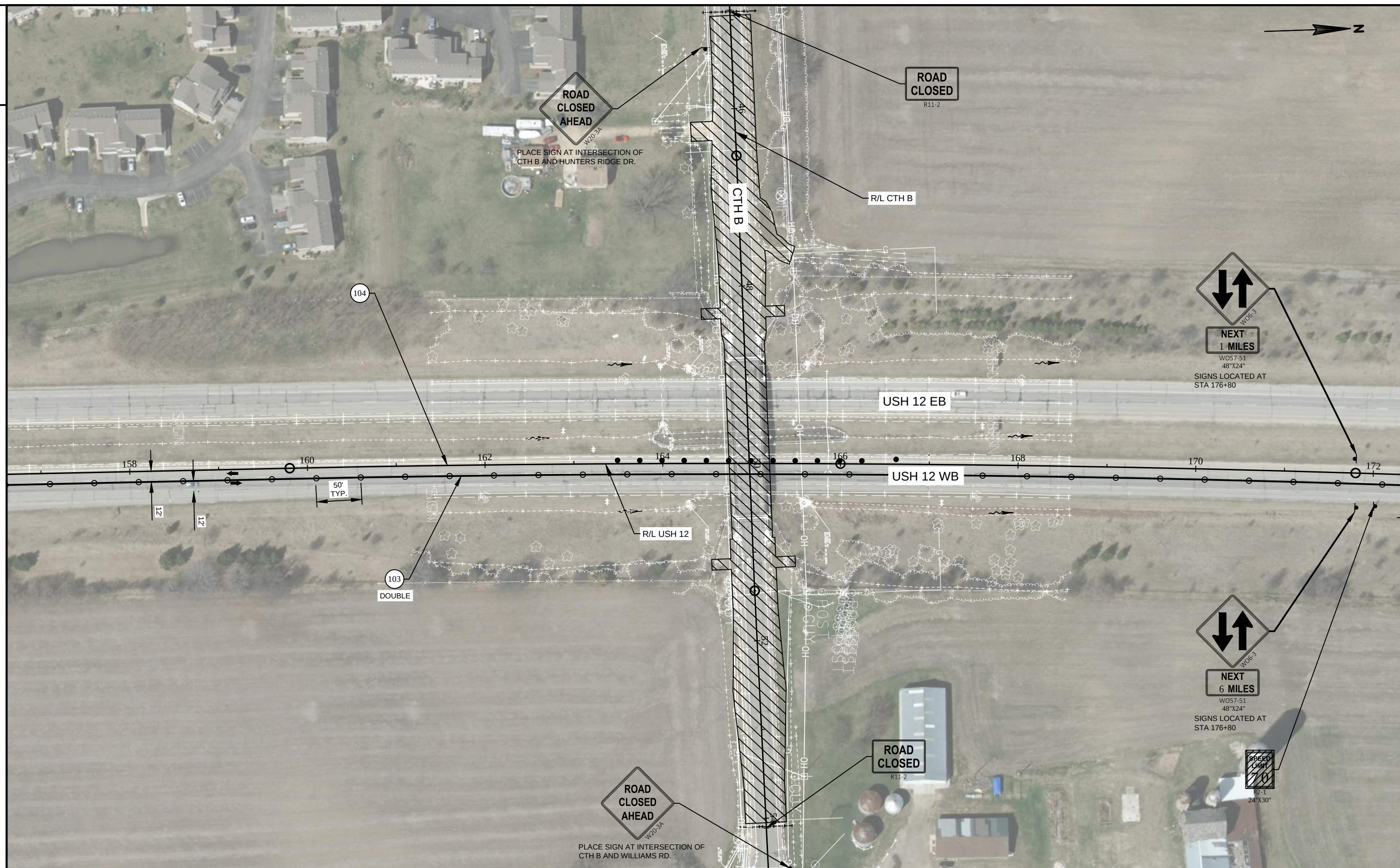
PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42

MATCHLINE STA 127+00



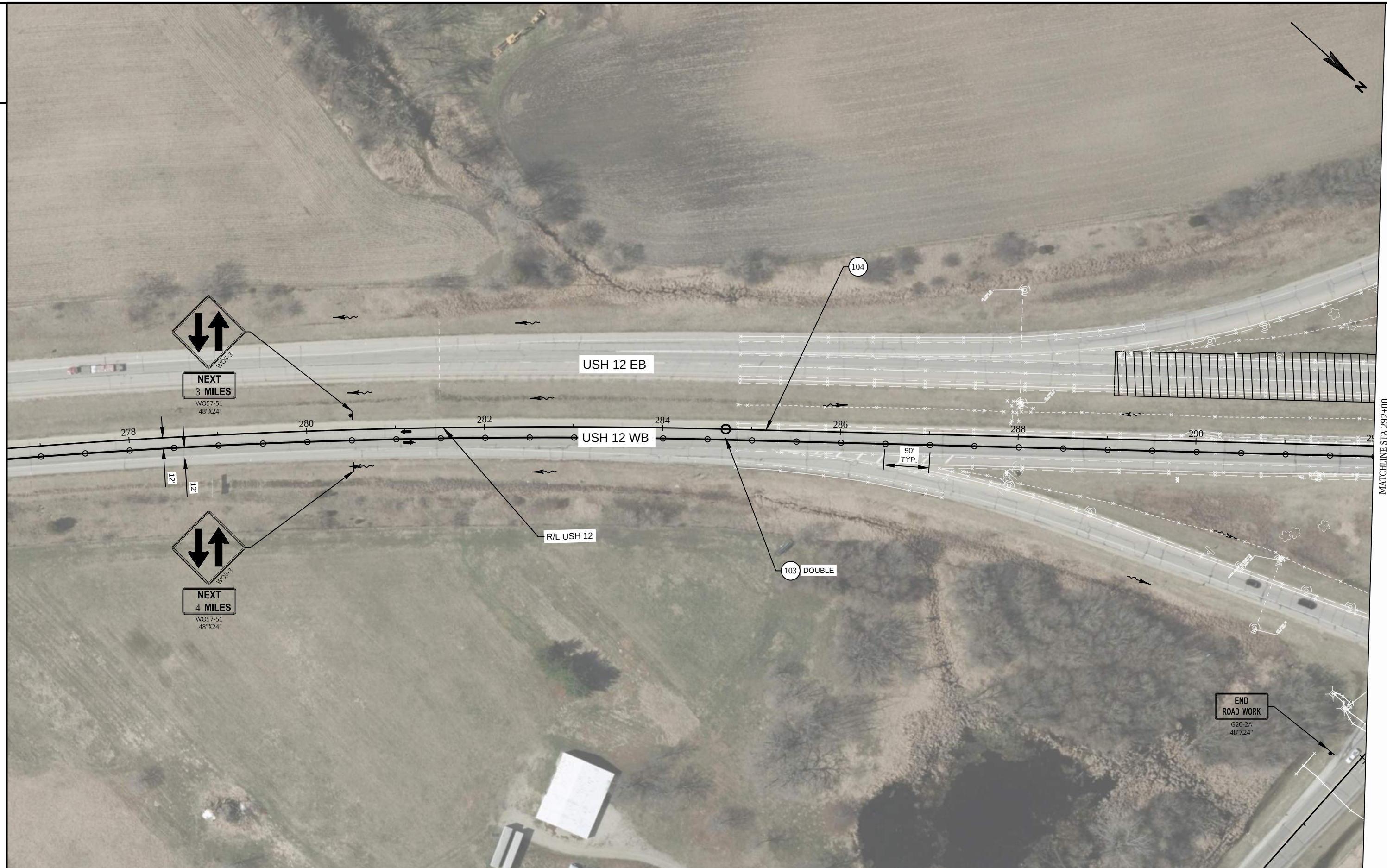
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET PRE_54	E
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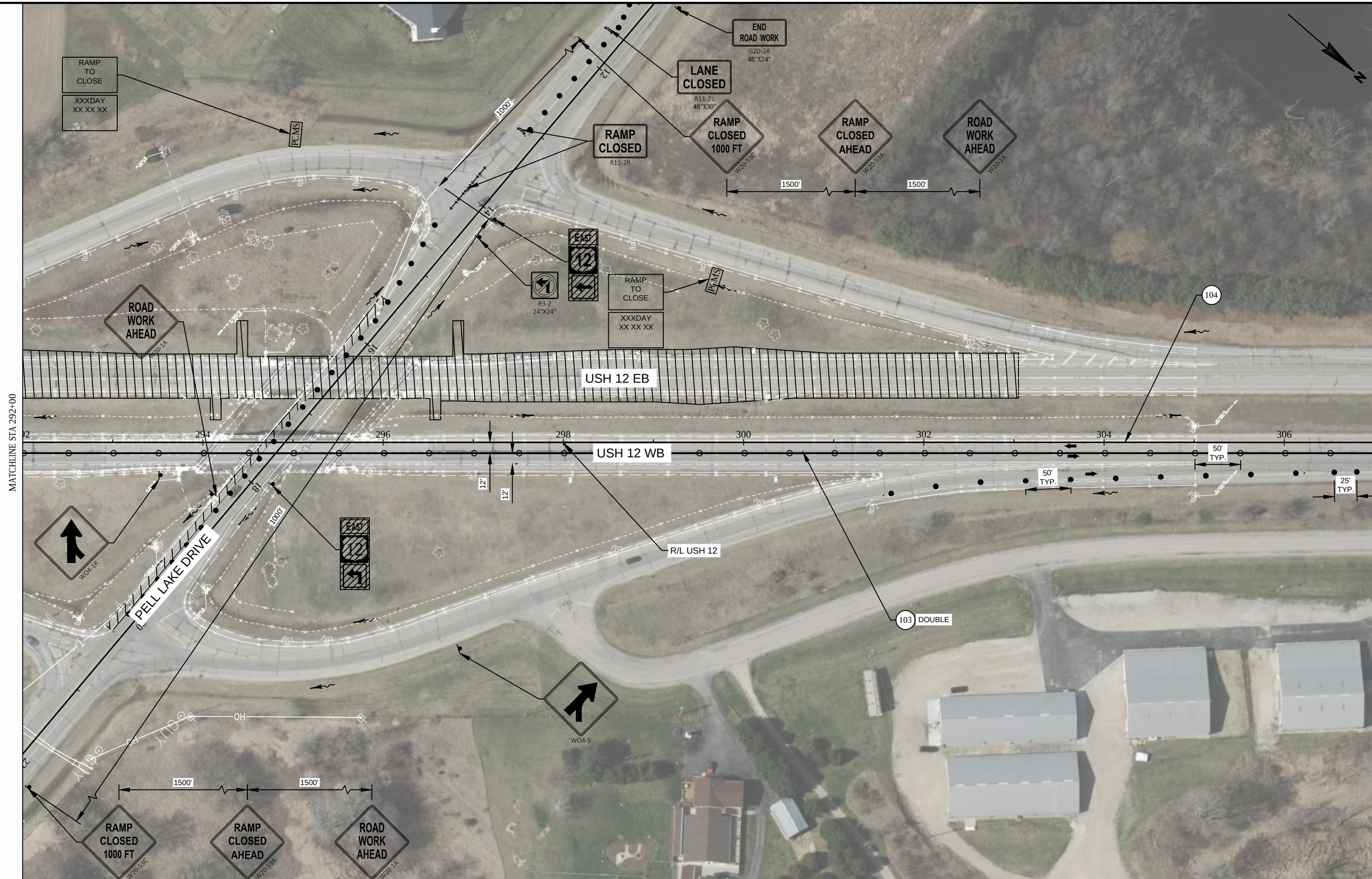




PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET PRE_56	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_59

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\026011-S1.DWG
LAYOUT NAME - 026014-s1

PLOT DATE: 6/30/2019 5:39 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1	SHEET PRE_60	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_61

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\026011-S1.DWG
LAYOUT NAME - 026020-s1

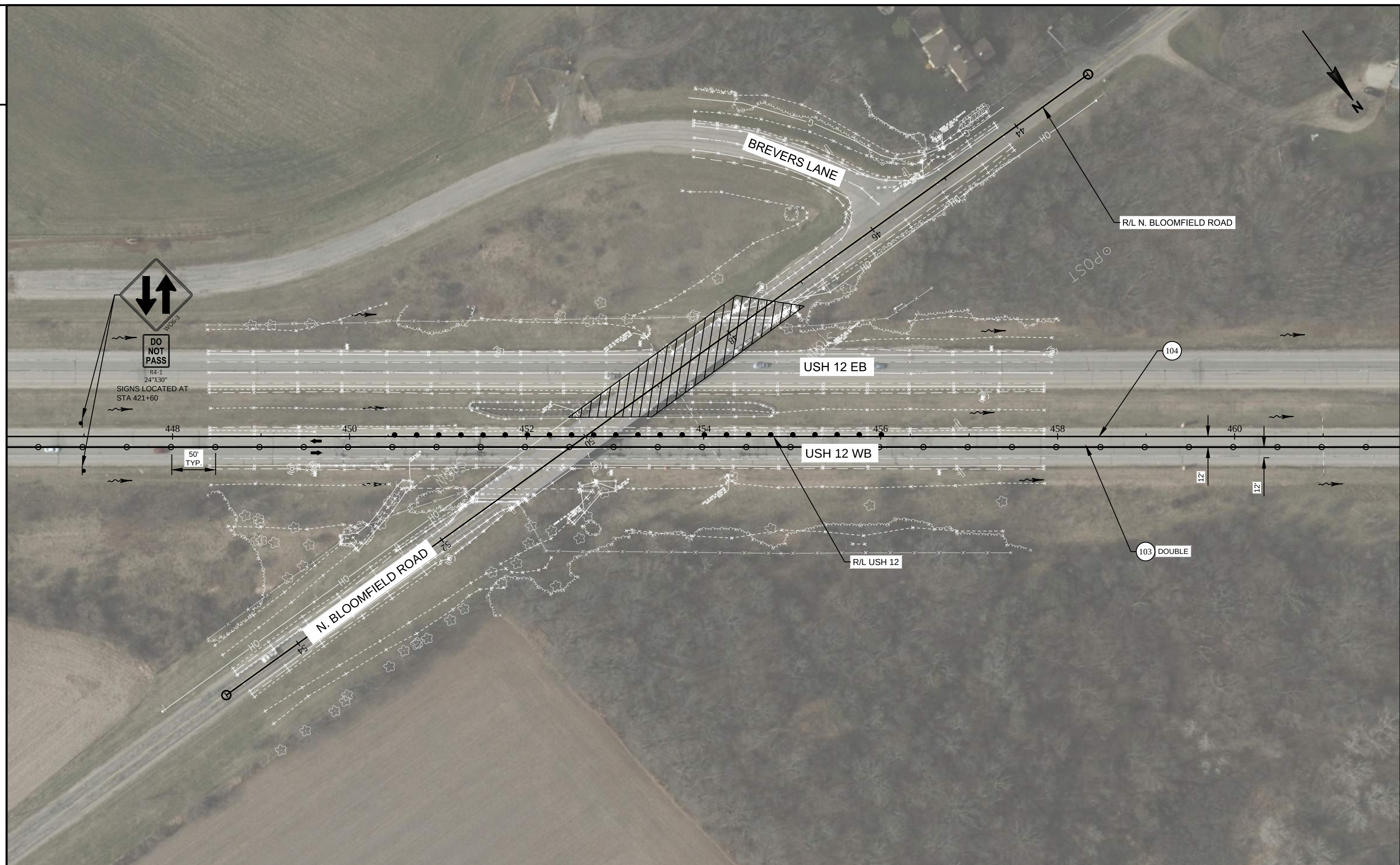
PLOT DATE: 6/30/2019 5:40 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_62

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\026024-S1.DWG
LAYOUT NAME - 026024-s1

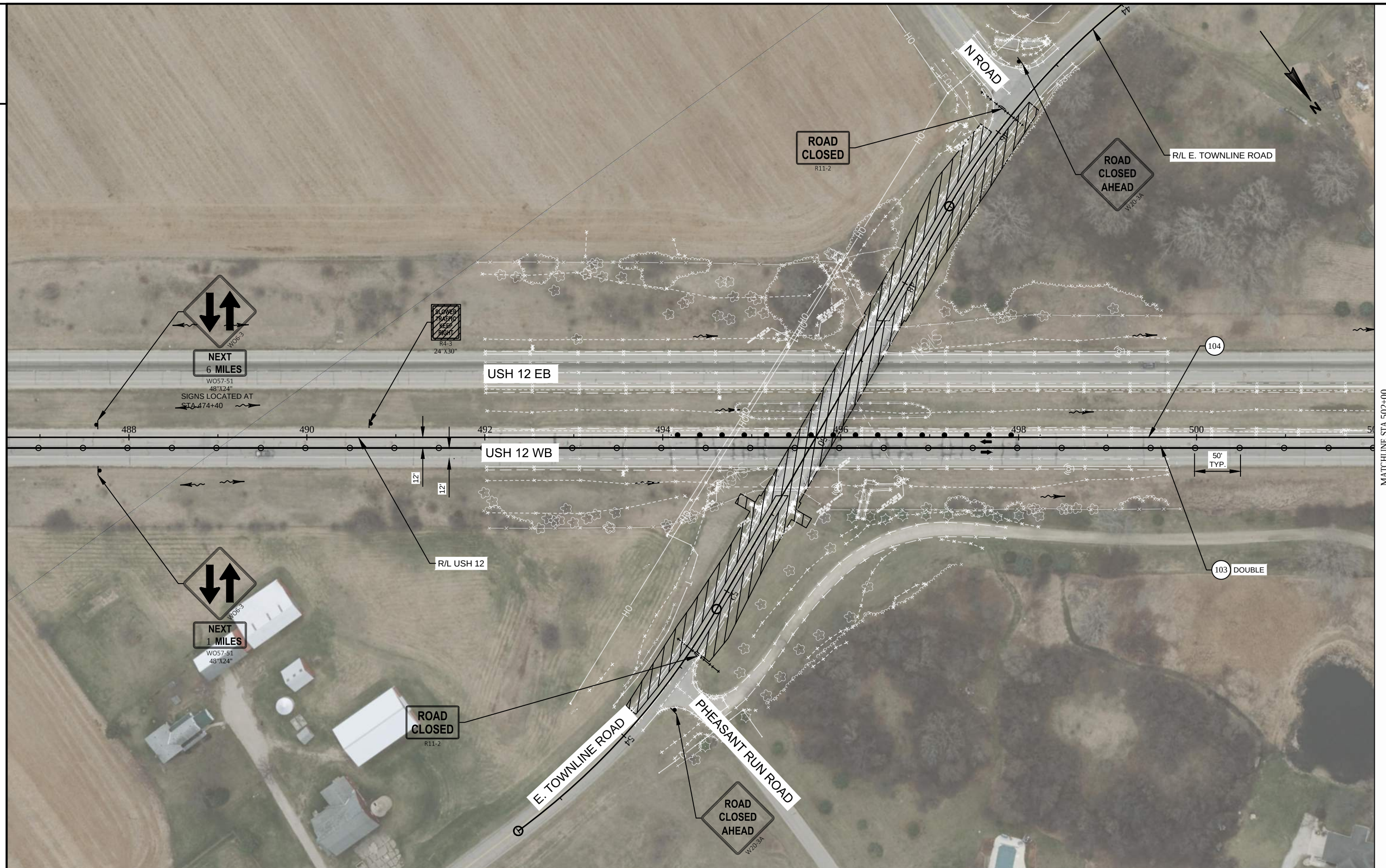
PLOT DATE: 6/30/2019 5:43 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_63

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\026024-S1.DWG
LAYOUT NAME - 026027-s1

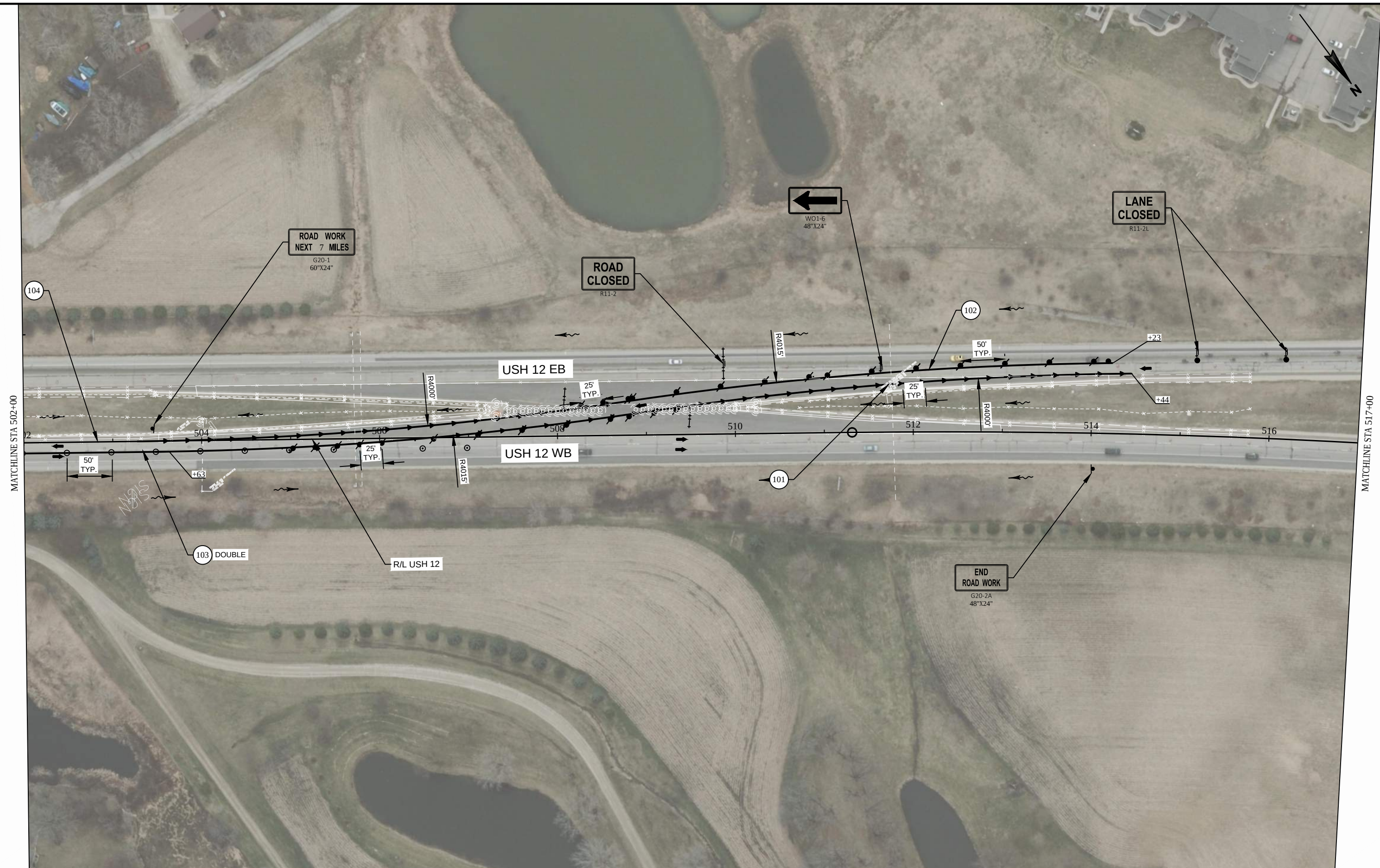
PLOT DATE: 6/30/2019 5:44 PM

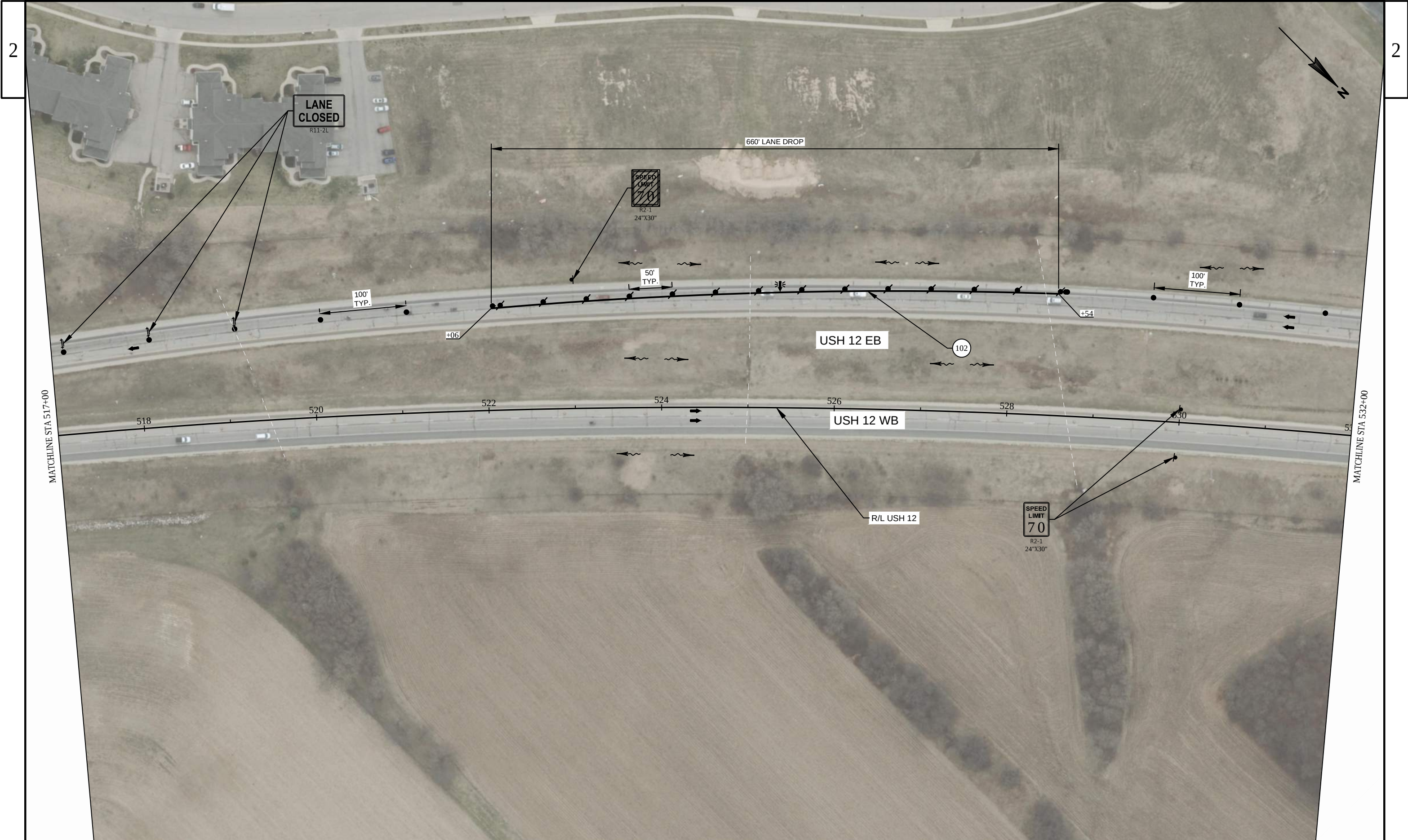
PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42





MATCHLINE STA 532+00

100'
TYP.

534

536

538

USH 12 EB

USH 12 WB

R/L USH 12

540

542

544

546

SPEED
LIMIT
55
R2-1
24"x30"

500'

700'

400'

1600'

2600'

NOTES

PLACE PCMS SIGNS AT THE INTERCHANGE OF
USH 12 AND STH 50 FOR RESITRICTED
OVERSIZED-OVER WEIGHT
VEHICLE ACCESS ON USH 12

PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1

SHEET PRE_66

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\026024-S1.DWG
LAYOUT NAME - 026030-s1

PLOT DATE : 6/30/2019 5:45 PM

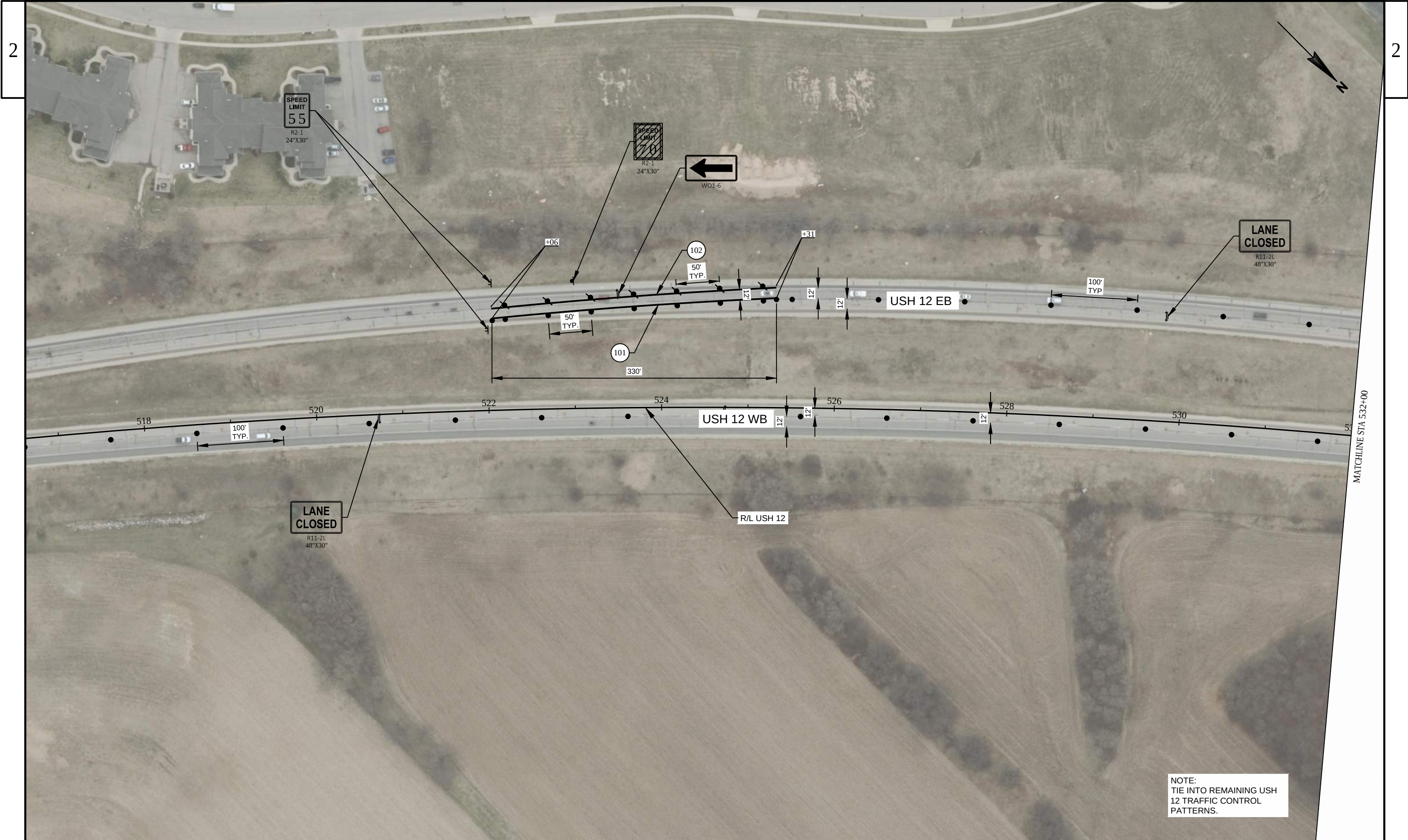
PLOT BY : CECELIA KASTEN

PLOT NAME :

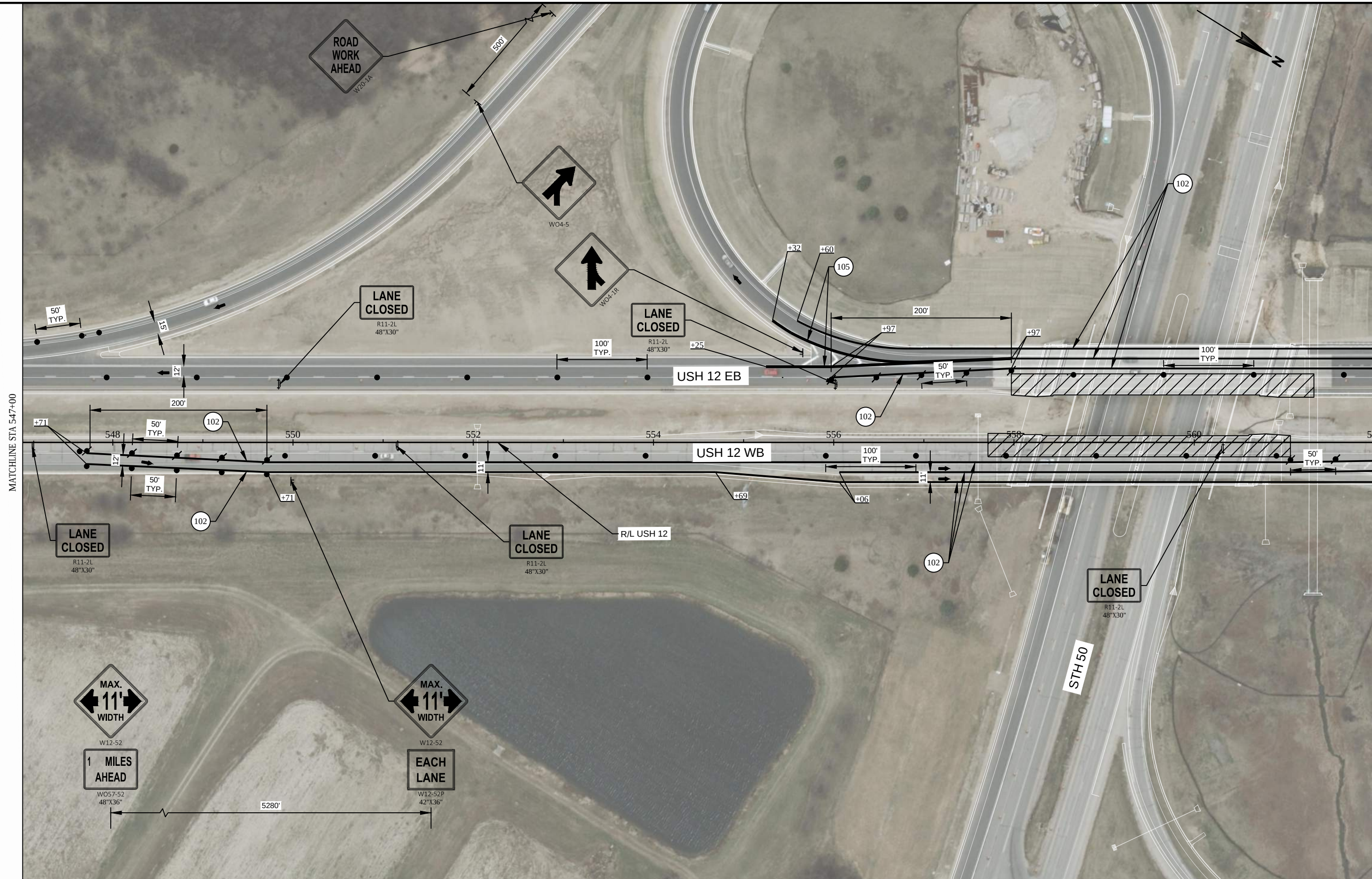
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42









PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1A

SHEET PRE_70

E

FILE NAME: I:\68977\C3D\38390373\1\1\026051-S1A.DWG
LAYOUT NAME - 026053-s1a

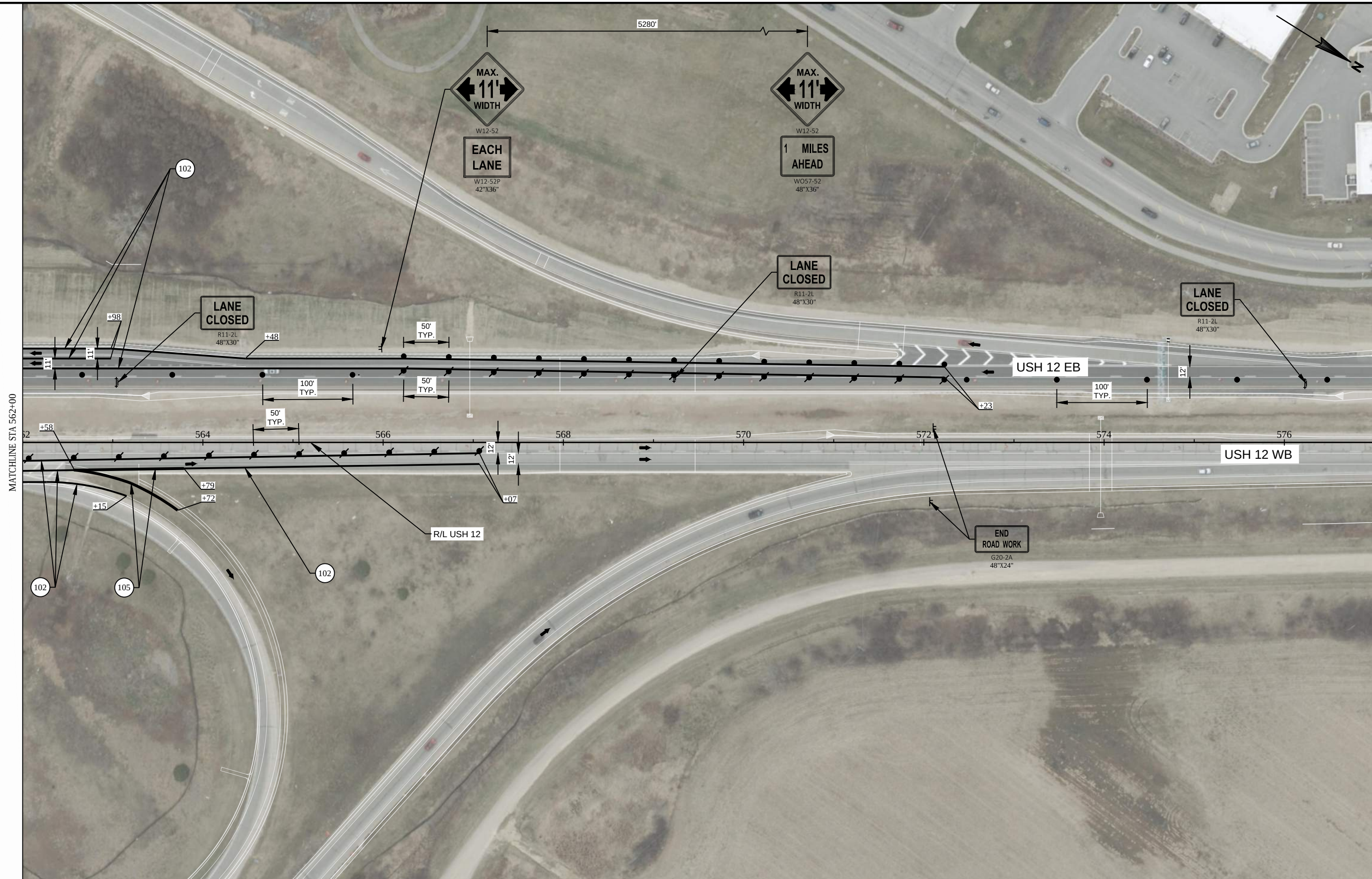
PLOT DATE: 6/30/2019 5:49 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN=100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1A

SHEET PRE_71

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\026051-S1A.DWG
LAYOUT NAME - 026054-s1a

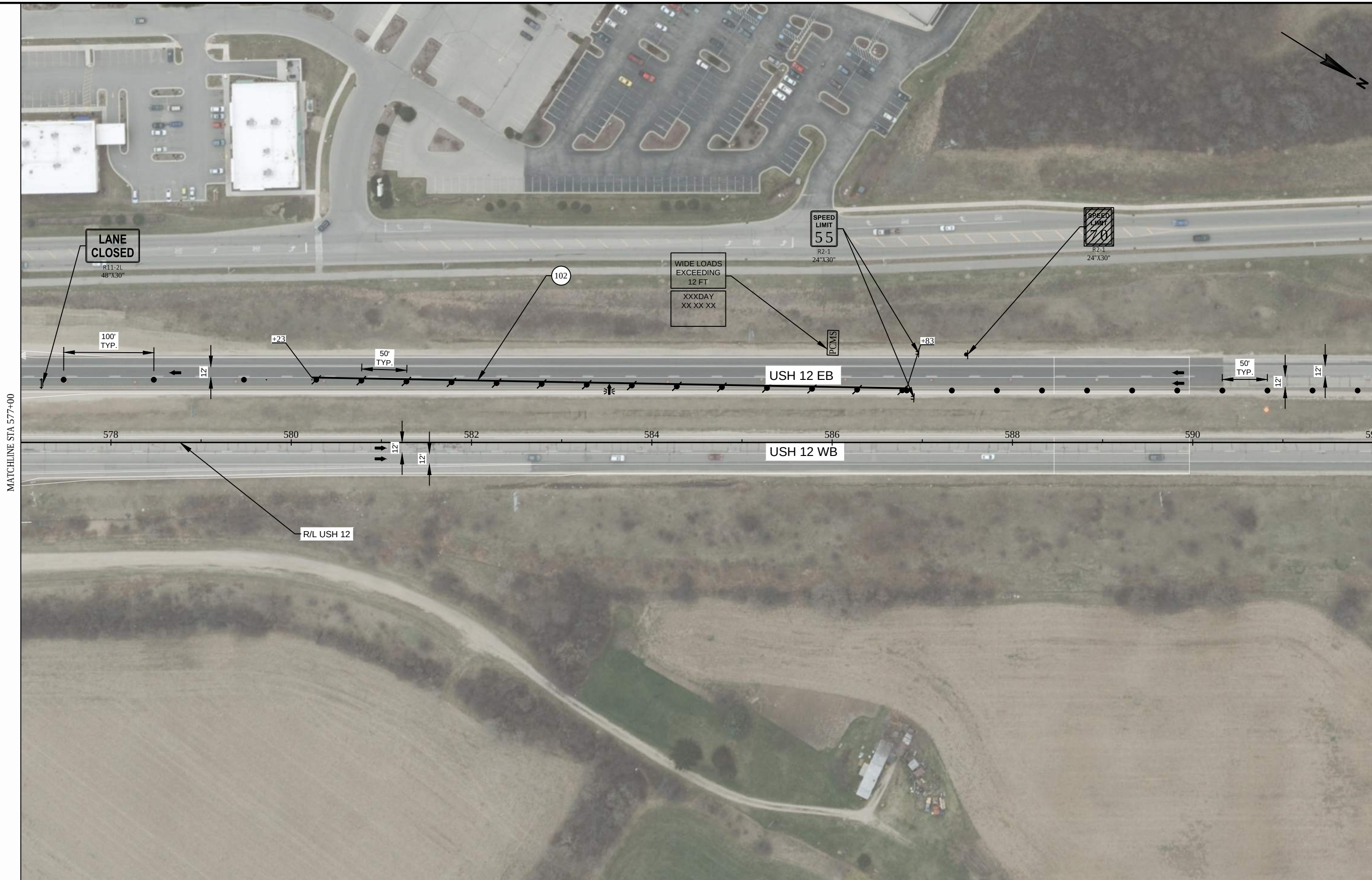
PLOT DATE : 6/30/2019 5:49 PM

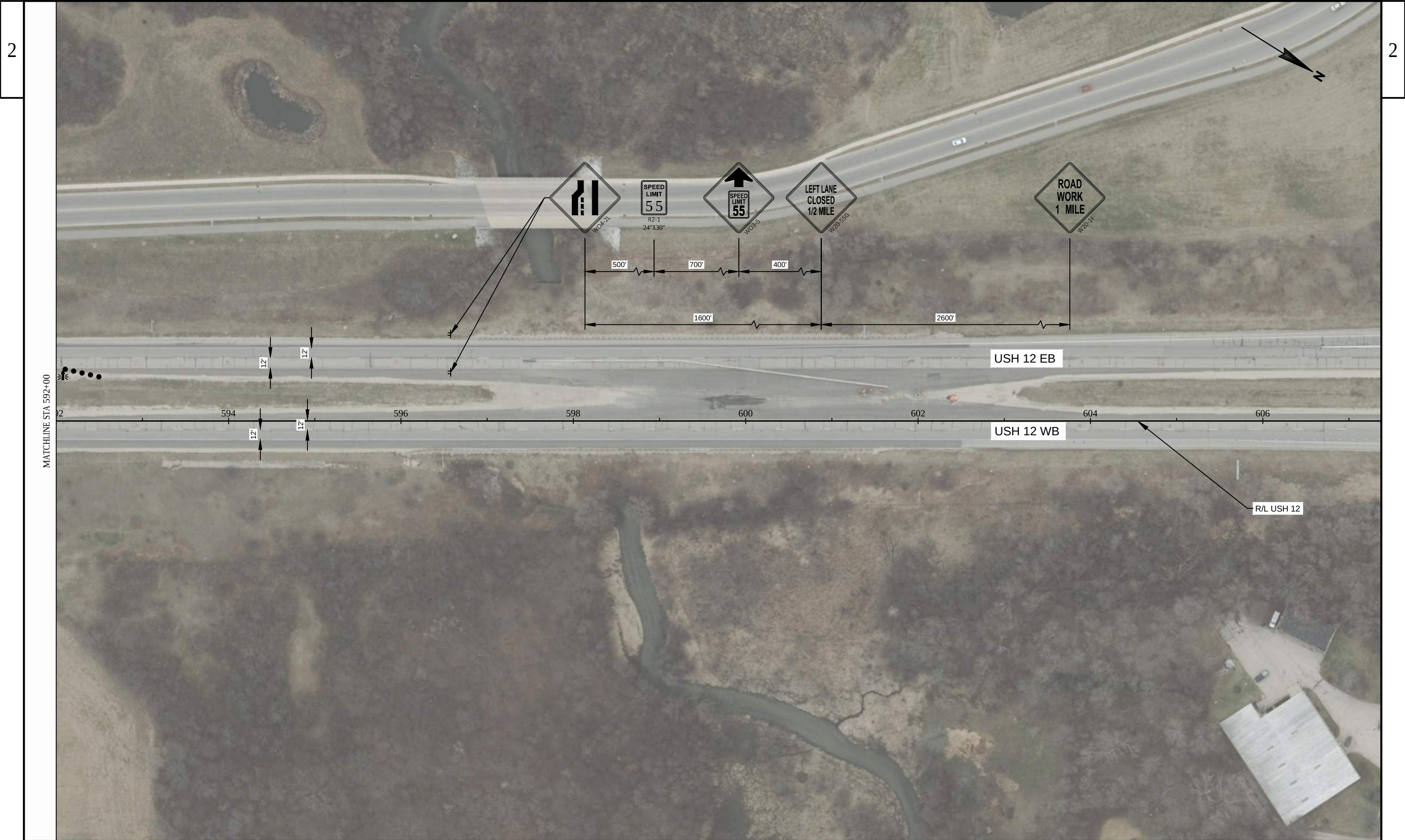
PLOT BY : CECELIA KASTEN

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42







STAGE 1B

CONSTRUCTION

- STH 50 - POLYMER OVERLAY B-64-187 - OUTSIDE LANES
- STH 50 - POLYMER OVERLAY B-64-188 - OUTSIDE LANES

TRAFFIC

- WESTBOUND (NB) USH 12 TRAFFIC SWITCHED TO INSIDE LANE.
- EASTBOUND (SB) USH 12 TRAFFIC SWITCHED TO INSIDE LANE.

PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1B OVERVIEW

SHEET PRE_74

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\026070-S1B.DWG
LAYOUT NAME - 026070-s1b

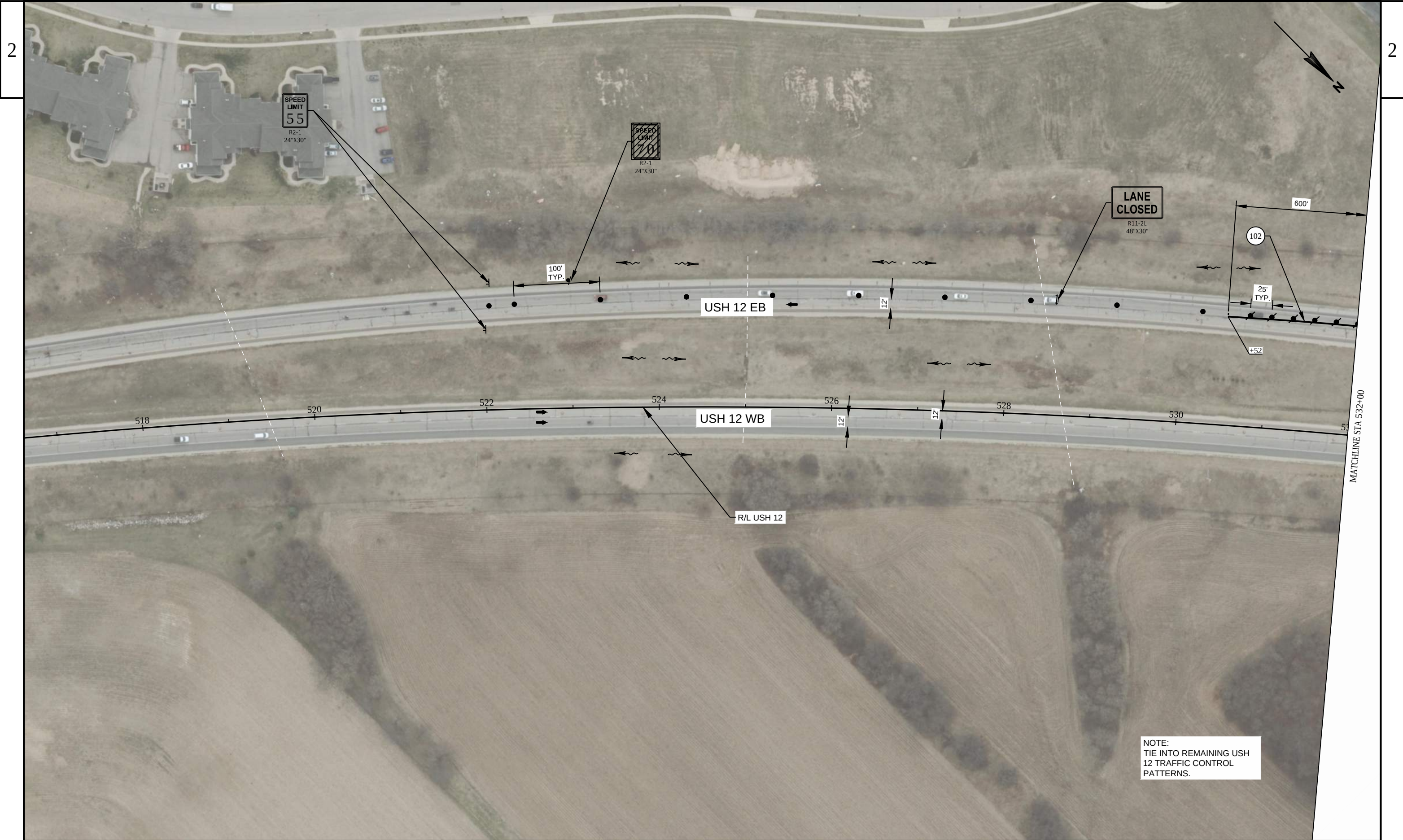
PLOT DATE : 6/30/2019 5:51 PM

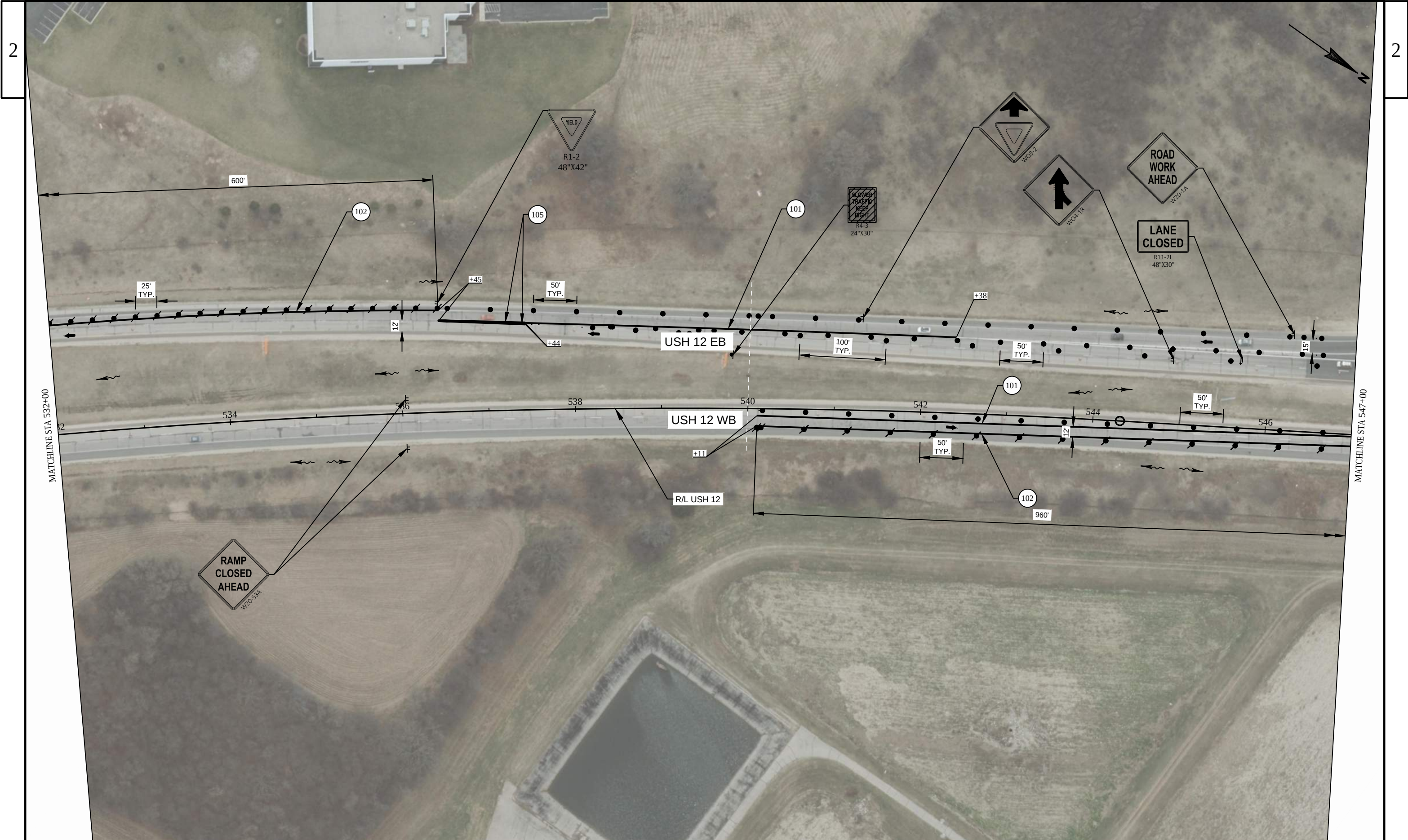
PLOT BY : CECELIA KASTEN

PLOT NAME :

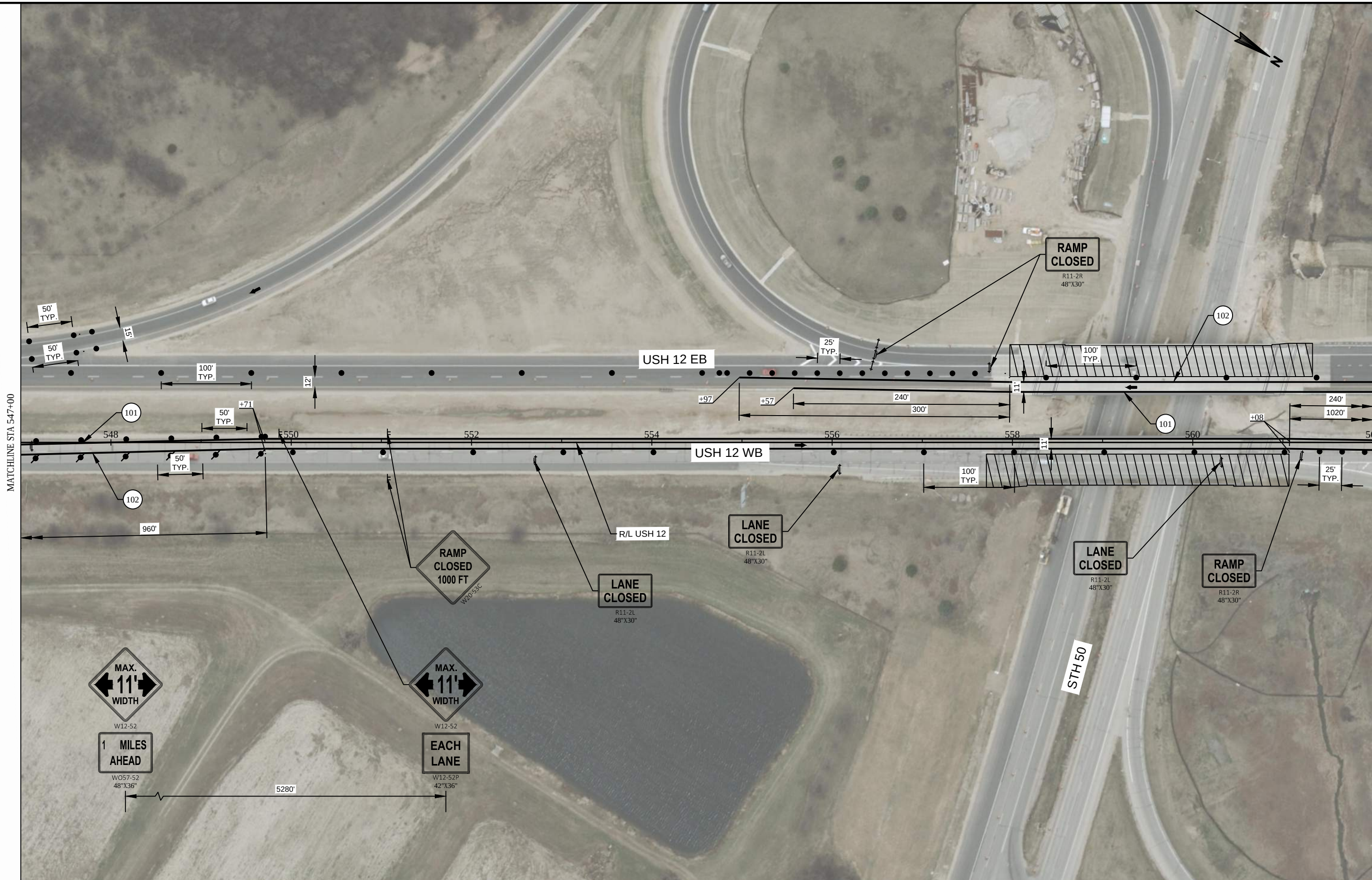
PLOT SCALE : 1 IN:1000 FT

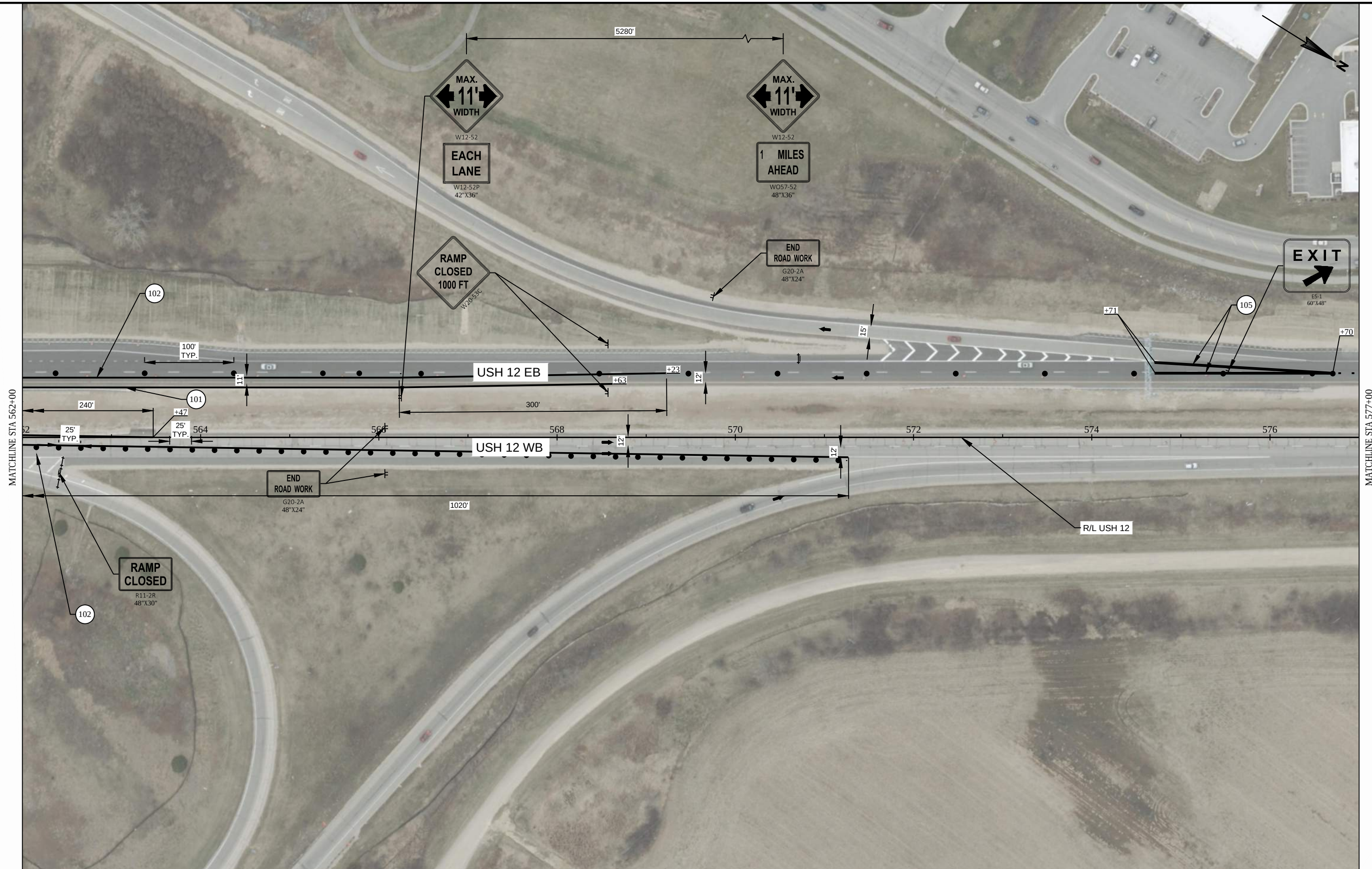
WISDOT/CADDs SHEET 42





PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 1B	SHEET PRE_76	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1B

SHEET PRE_78

E

FILE NAME: I:\68977\C3D\38390373\SHEETS\PLAN\026071-S1B.DWG
LAYOUT NAME - 026074-s1b

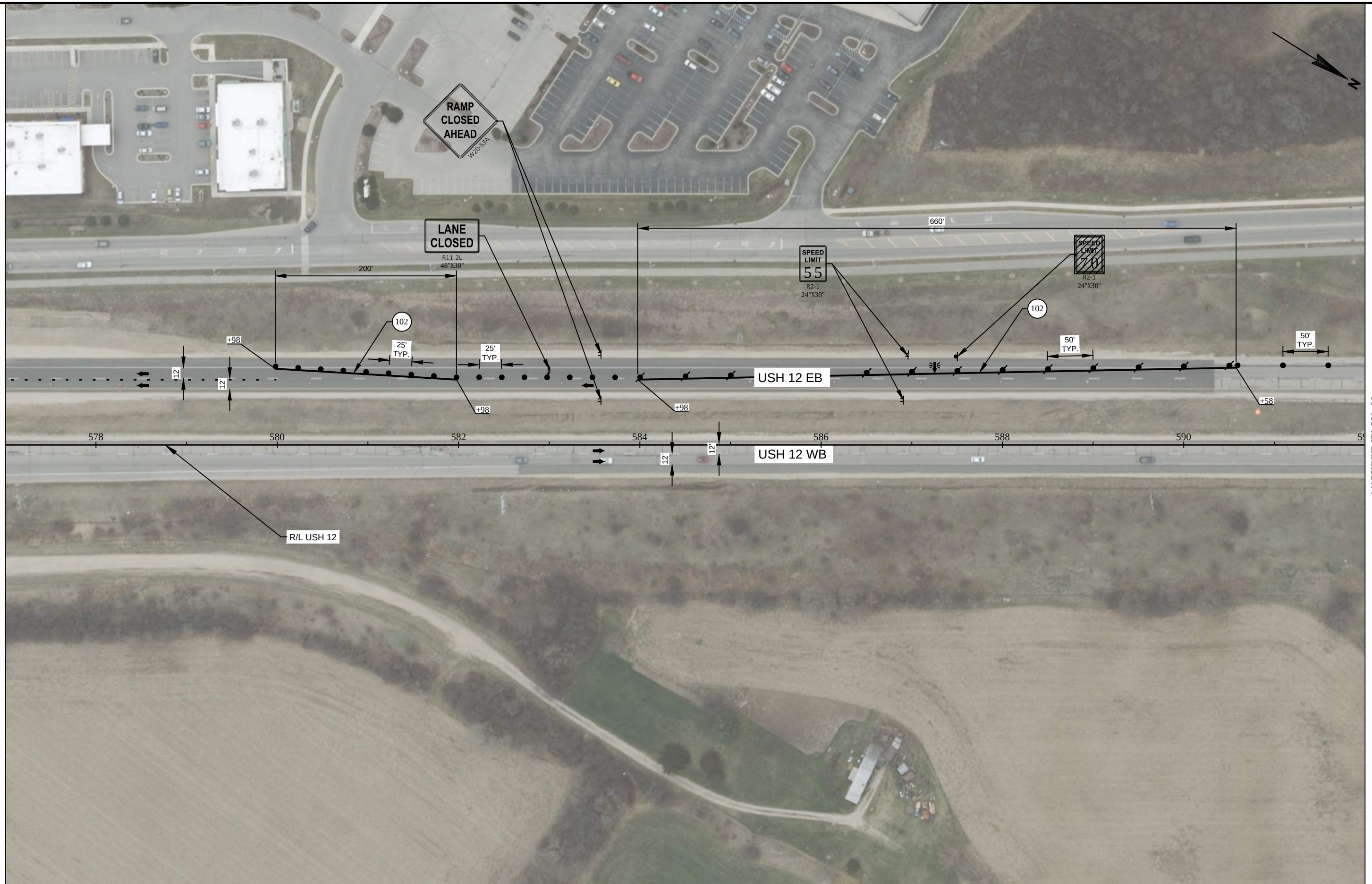
PLOT DATE: 6/30/2019 5:52 PM

PLOT BY: CECELIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 1B

SHEET PRE_79

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\026071-S1B.DWG
LAYOUT NAME - 026075-s1b

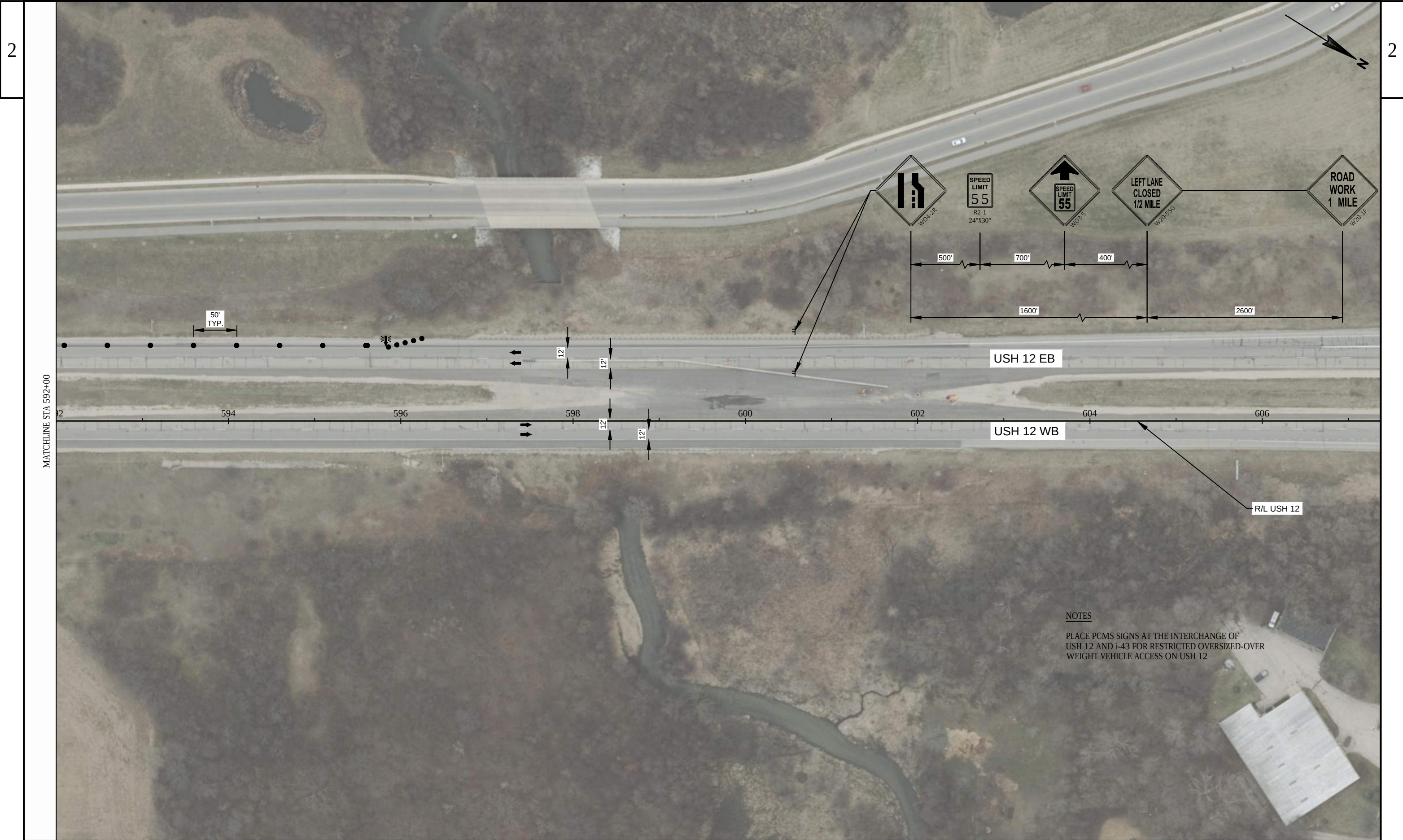
PLOT DATE : 6/30/2019 5:53 PM

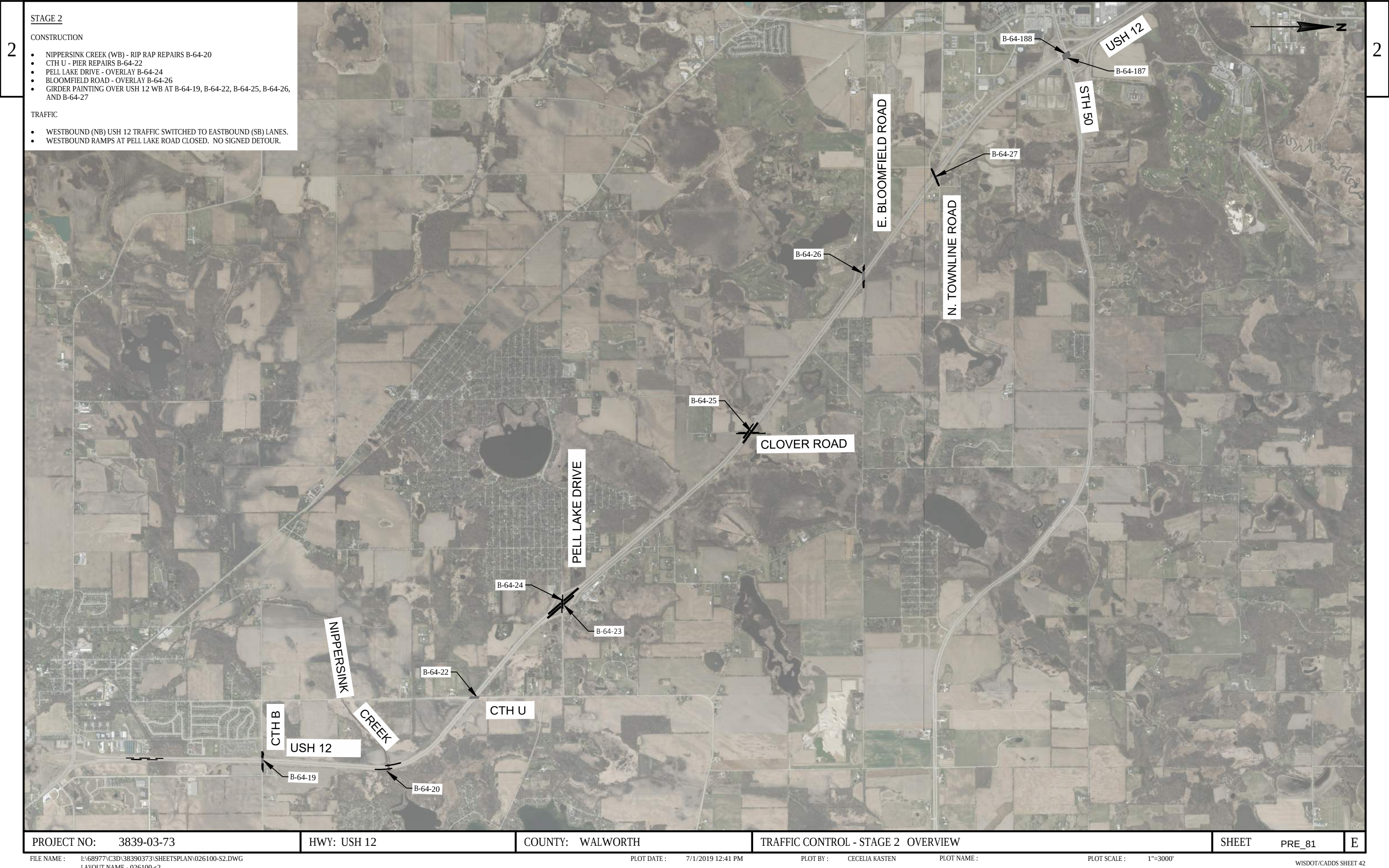
PLOT BY : CECELIA KASTEN

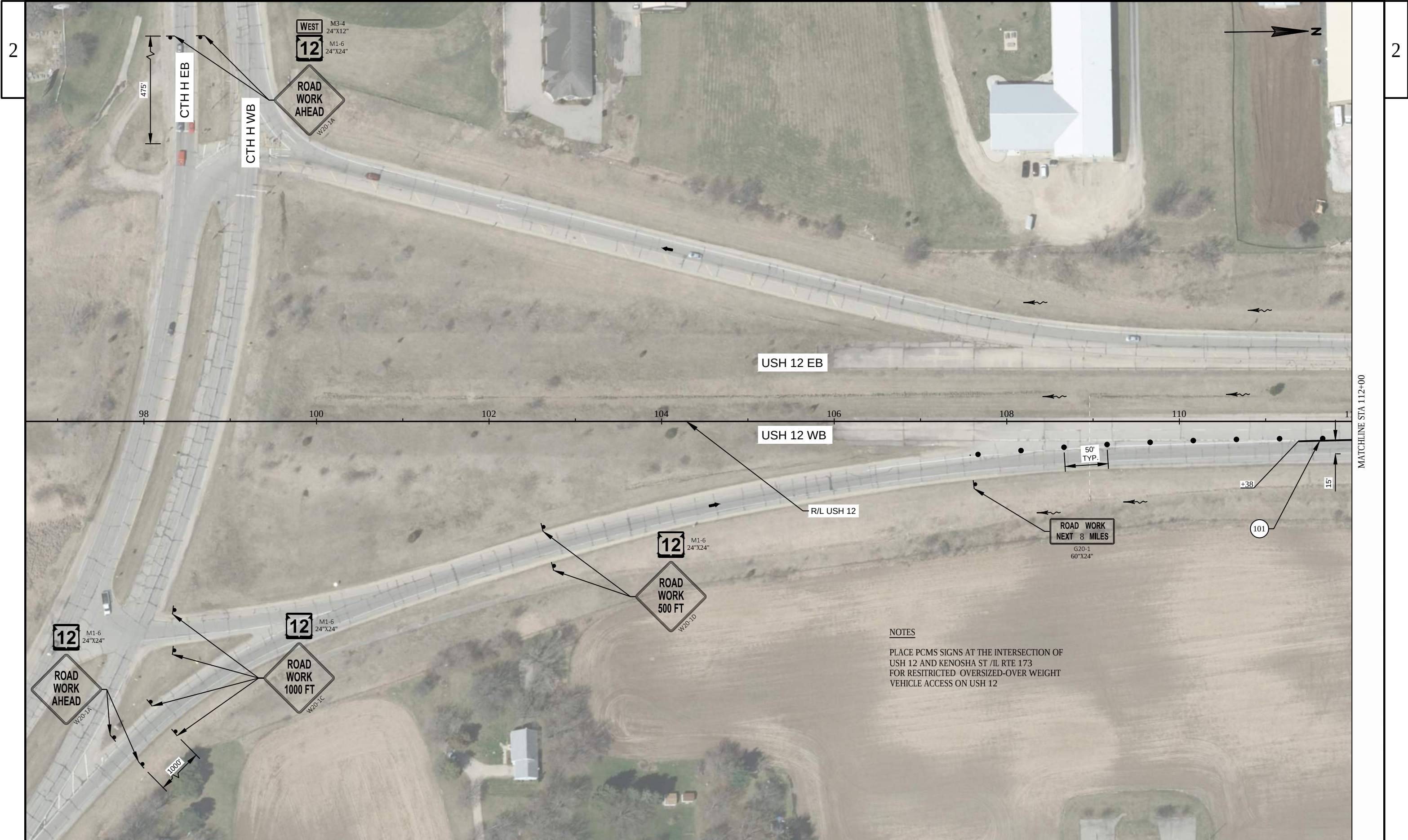
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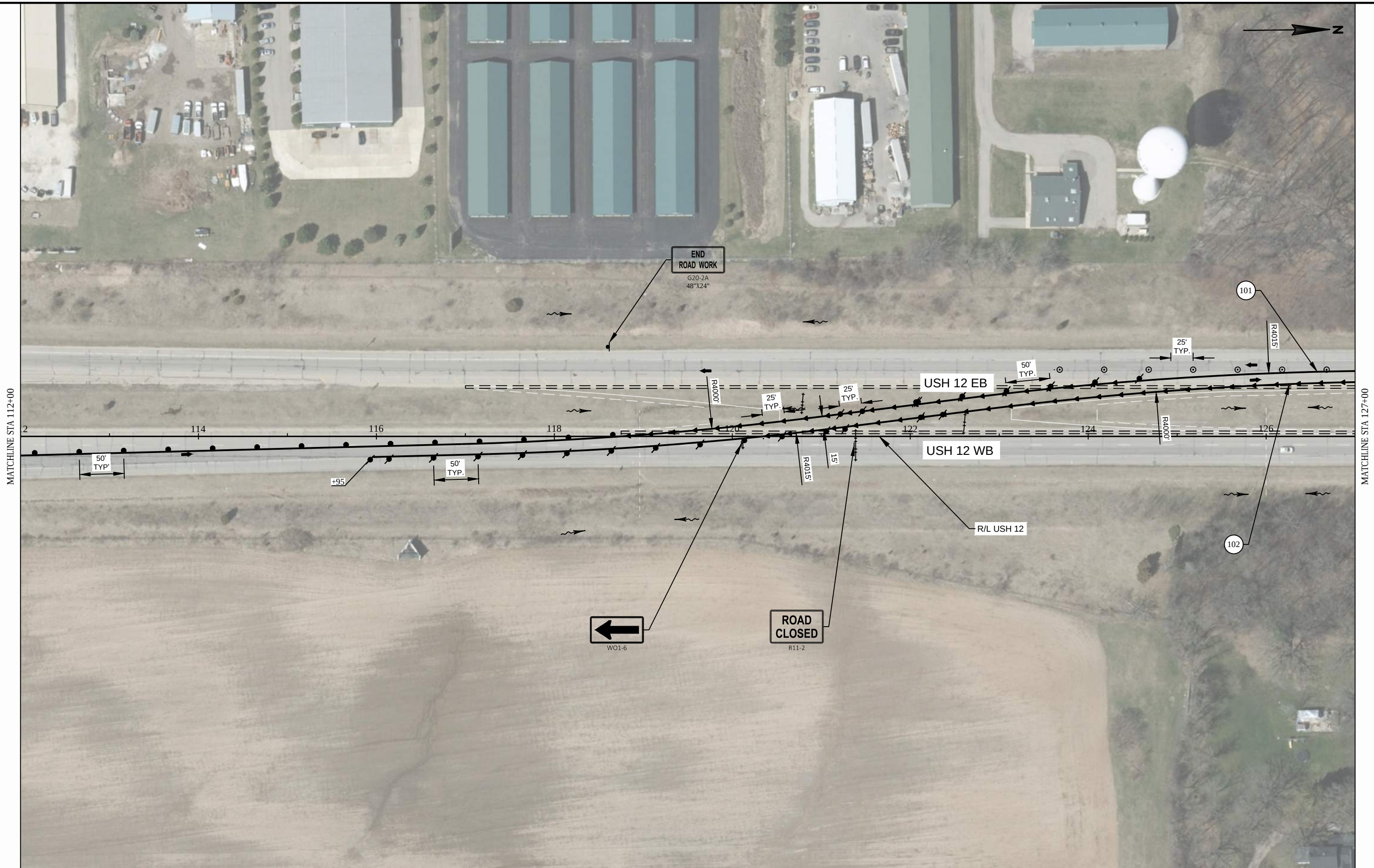
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 42









PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_83	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_84	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_85	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 2

SHEET PRE_86

E

FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\026101-S2.DWG
LAYOUT NAME - 026108-s2

PLOT DATE : 6/30/2019 6:00 PM

PLOT BY : CECILIA KASTEN

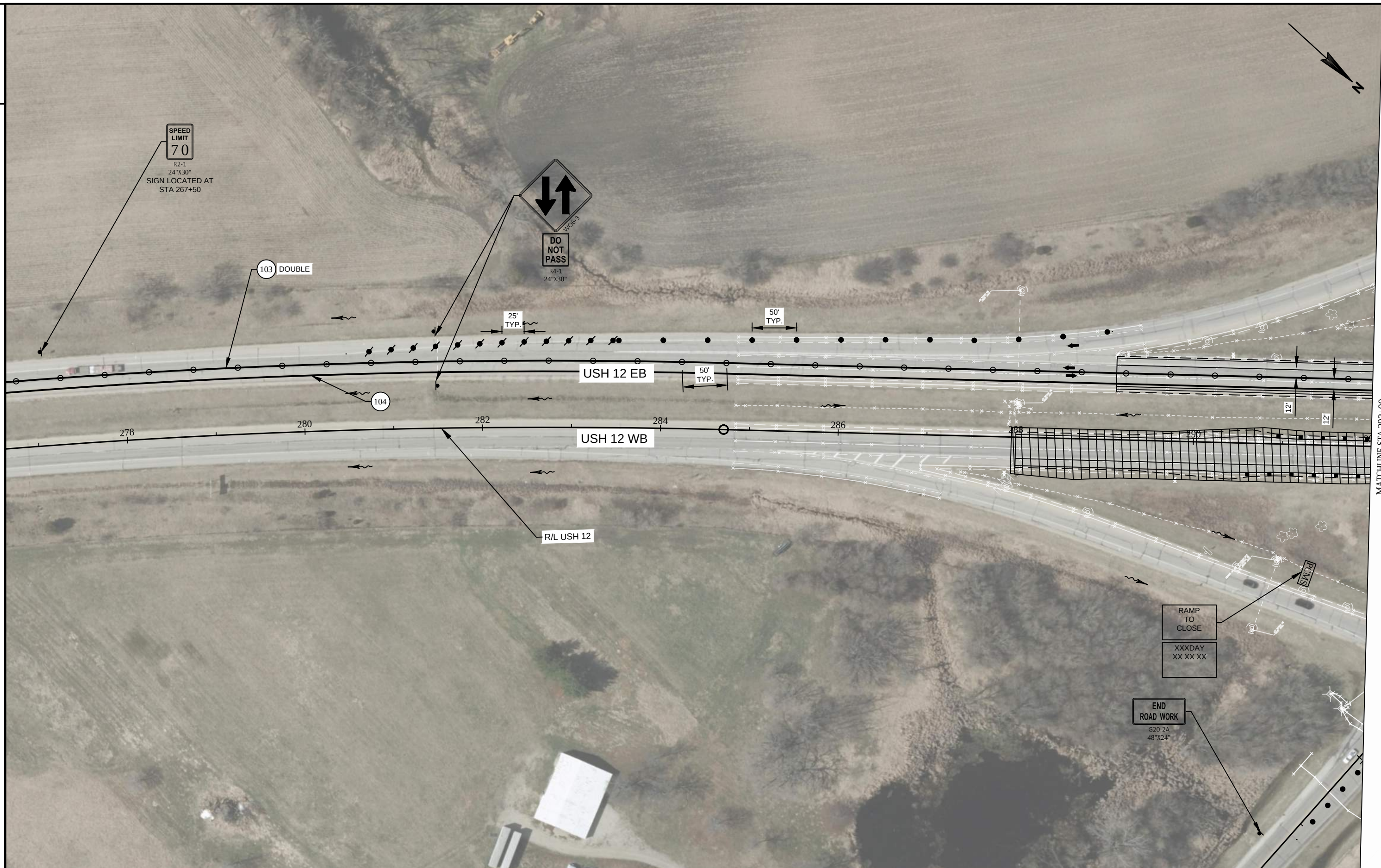
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

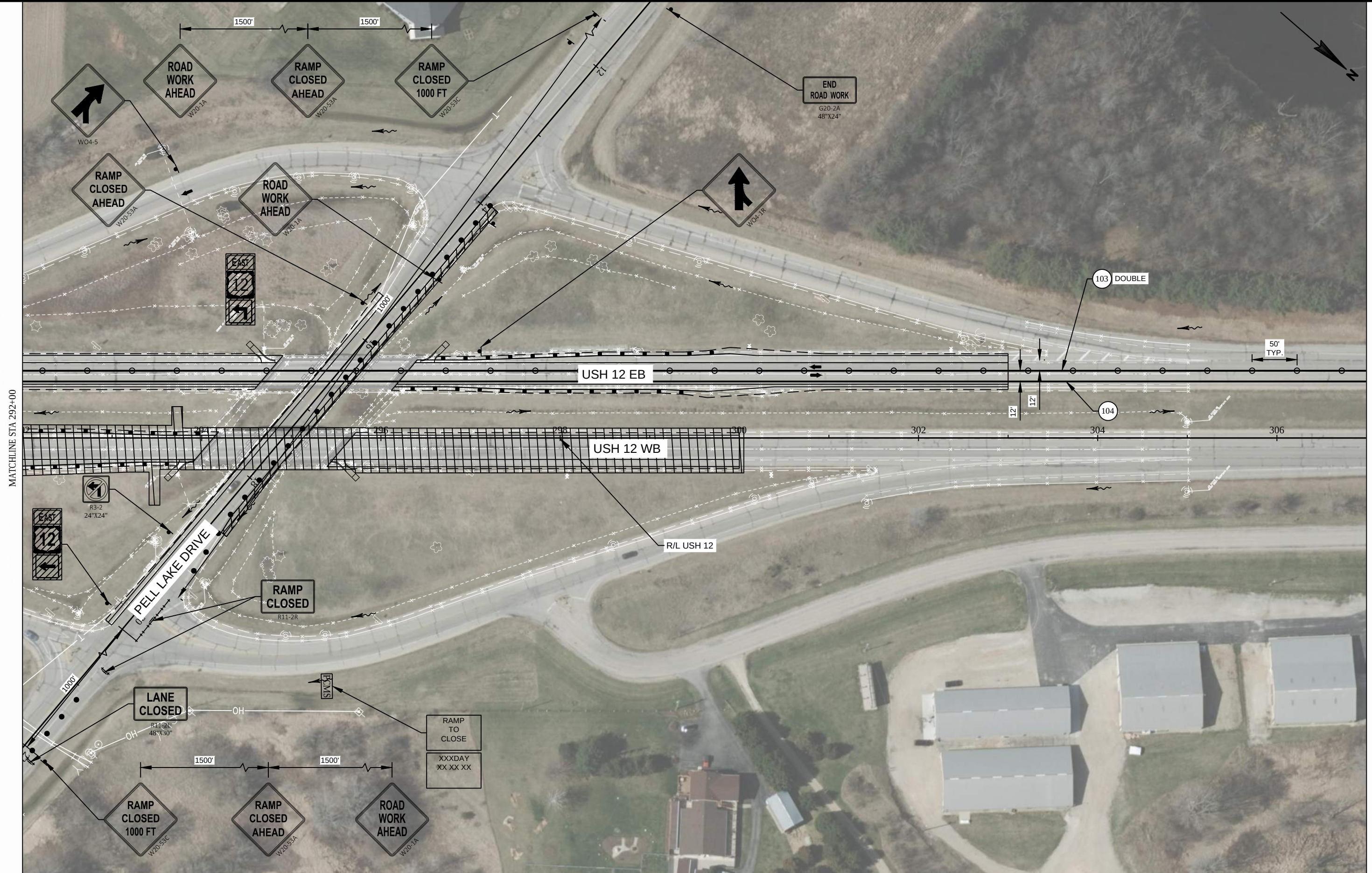
WISDOT/CADDs SHEET 42



PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_87	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_88	E
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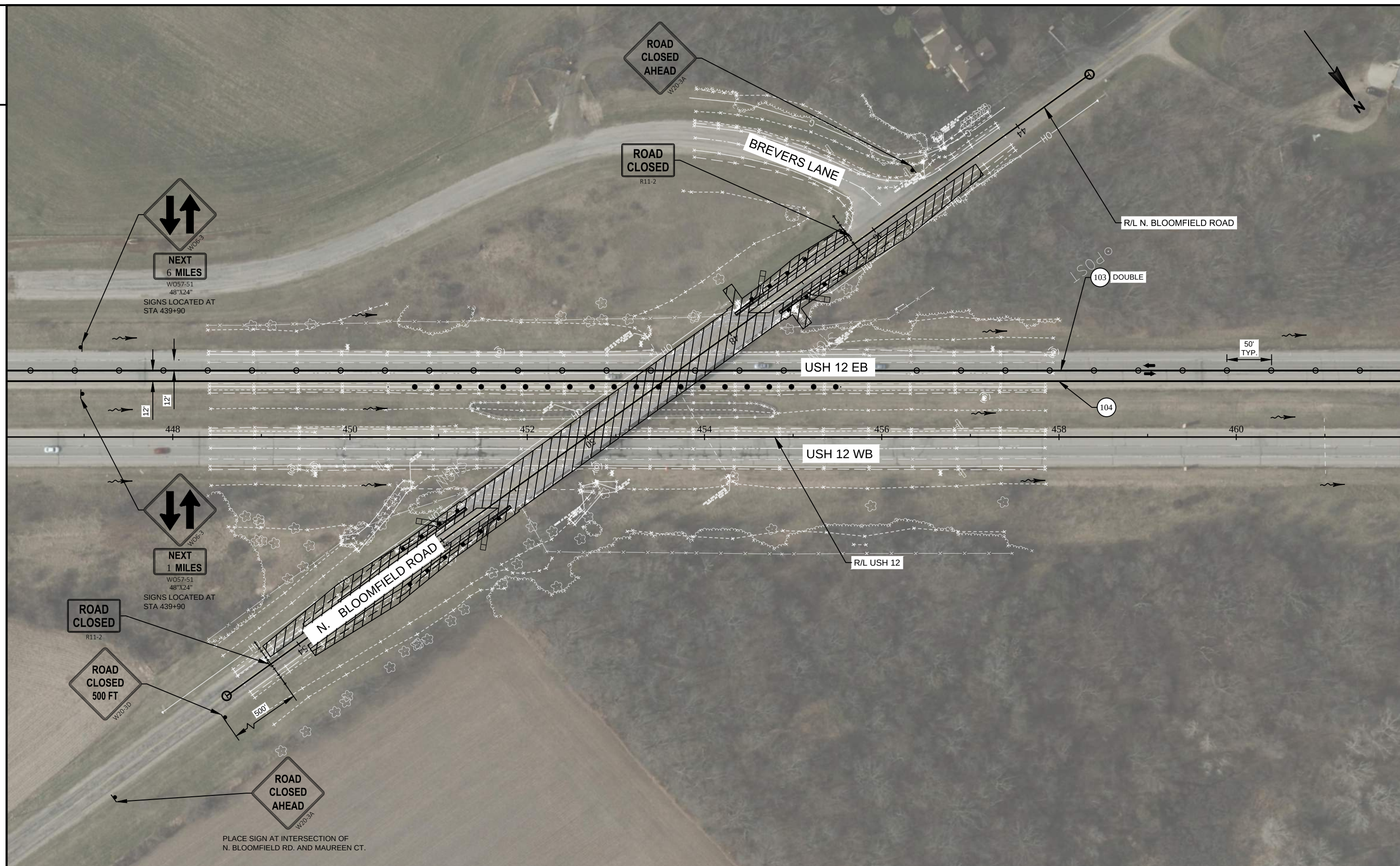




PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_90	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_91	E
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PROJECT NO: 3839-03-73

HWY: USH 12

COUNTY: WALWORTH

TRAFFIC CONTROL - STAGE 2

SHEET PRE_92

E

FILE NAME: I:\68977\C3D\38390373\1\026124-S2.DWG
LAYOUT NAME - 026124-s2

PLOT DATE: 6/30/2019 6:08 PM

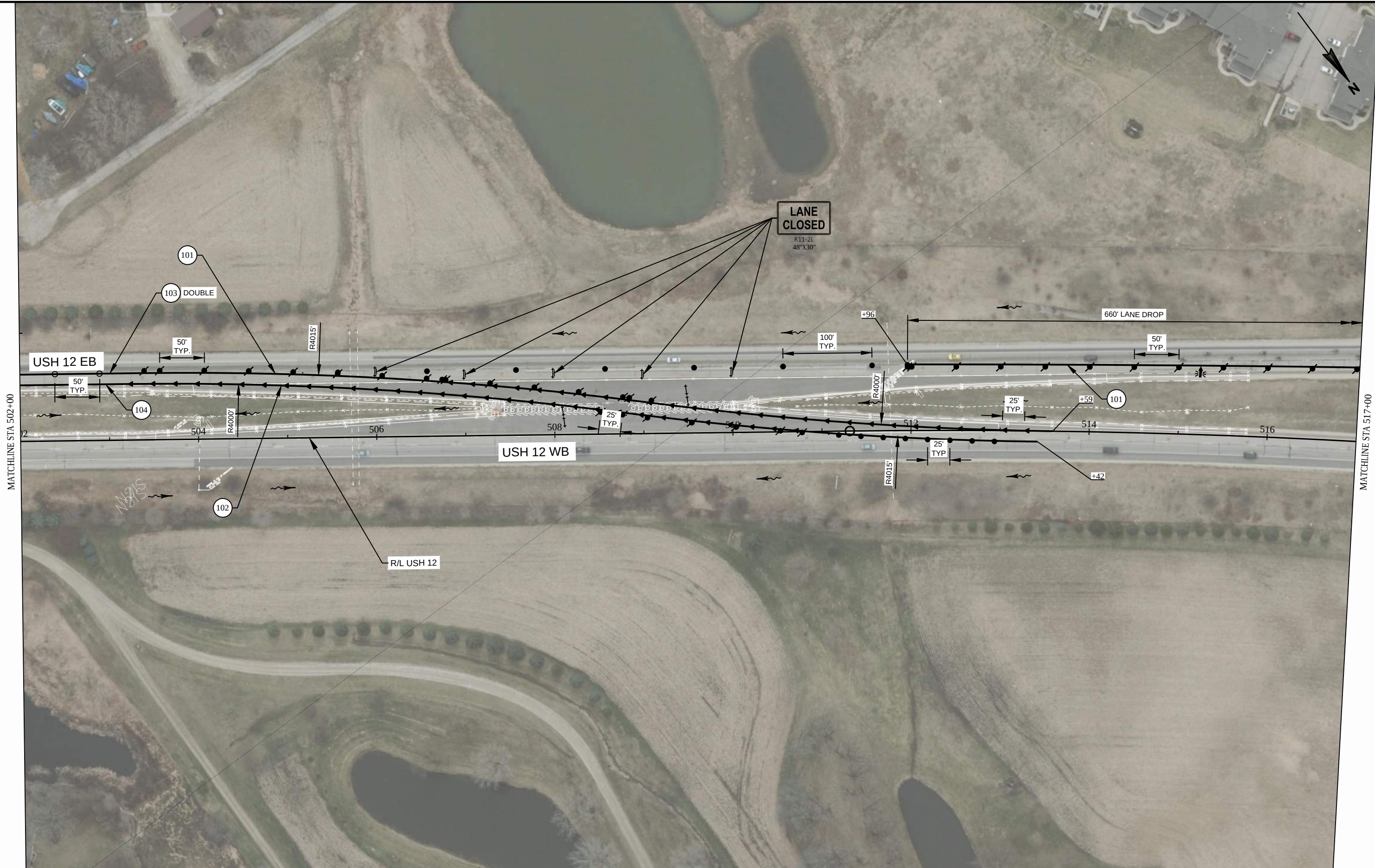
PLOT BY: CECILIA KASTEN

PLOT NAME:

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDs SHEET 42

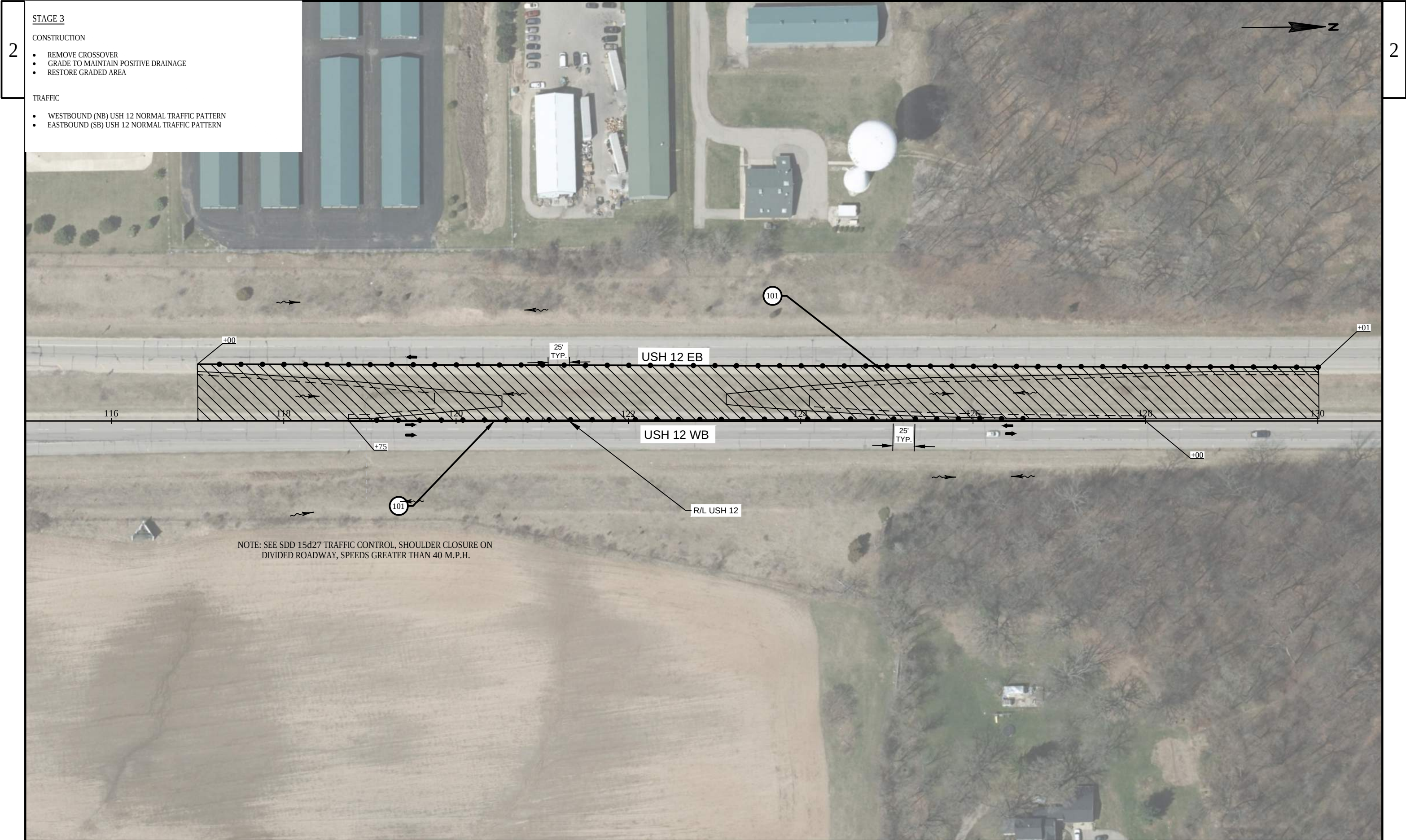


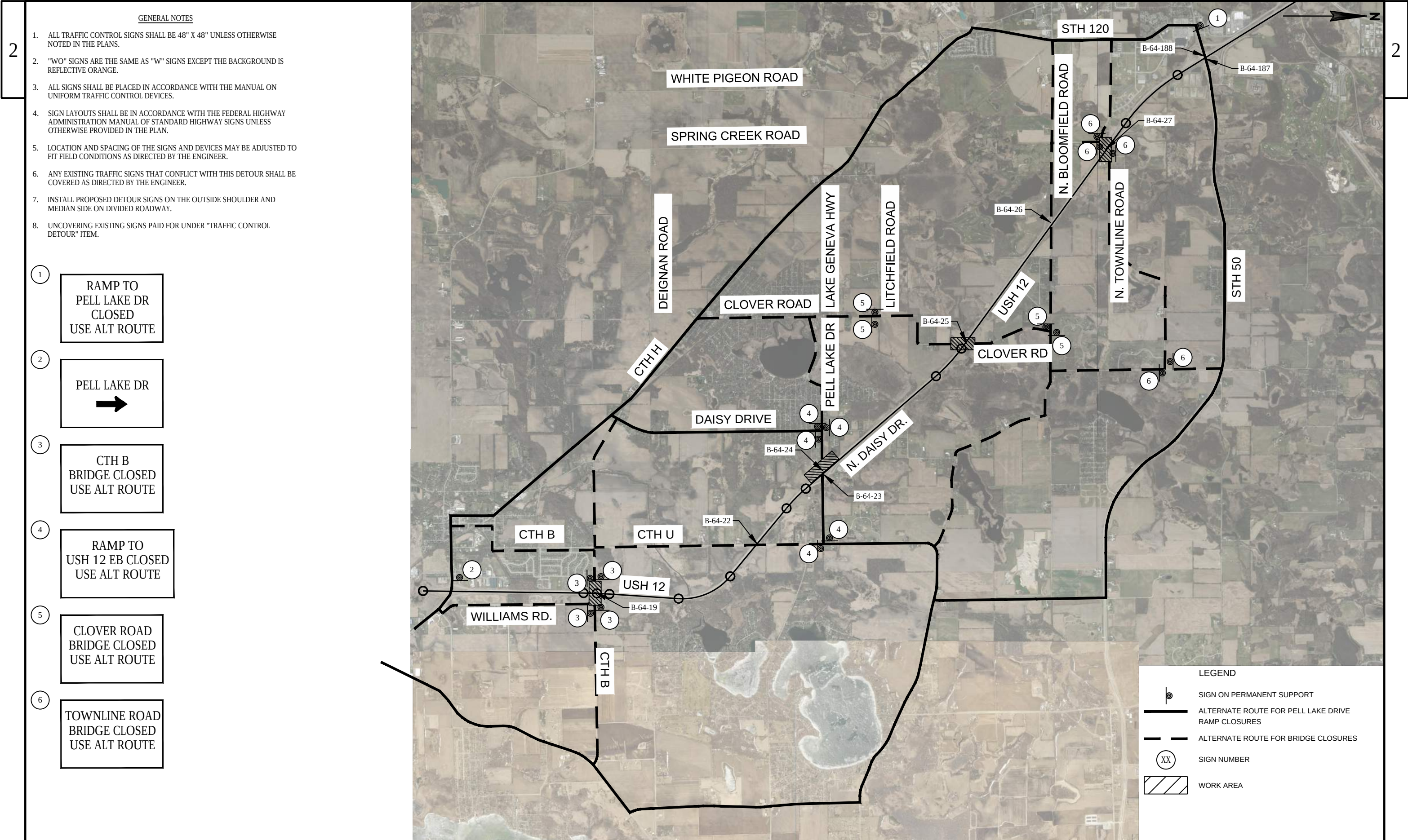




NOTES
PLACE PCMS SIGNS AT THE INTERSECTION OF
USH 12 AND STH 50 FOR RESITRICTED
OVERSIZED-OVER WEIGHT
VEHICLE ACCESS ON USH 12

PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	TRAFFIC CONTROL - STAGE 2	SHEET PRE_95	E
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GENERAL NOTES

- 1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
- 2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- 3. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 4. SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
- 5. LOCATION AND SPACING OF THE SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 6. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
- 7. INSTALL PROPOSED DETOUR SIGNS ON THE OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.
- 8. UNCOVERING EXISTING SIGNS PAID FOR UNDER "TRAFFIC CONTROL DETOUR" ITEM.

1

RAMP TO
PELL LAKE DR
CLOSED
USE ALT ROUTE

2

PELL LAKE DR
➔

3

CTH B
BRIDGE CLOSED
USE ALT ROUTE

4

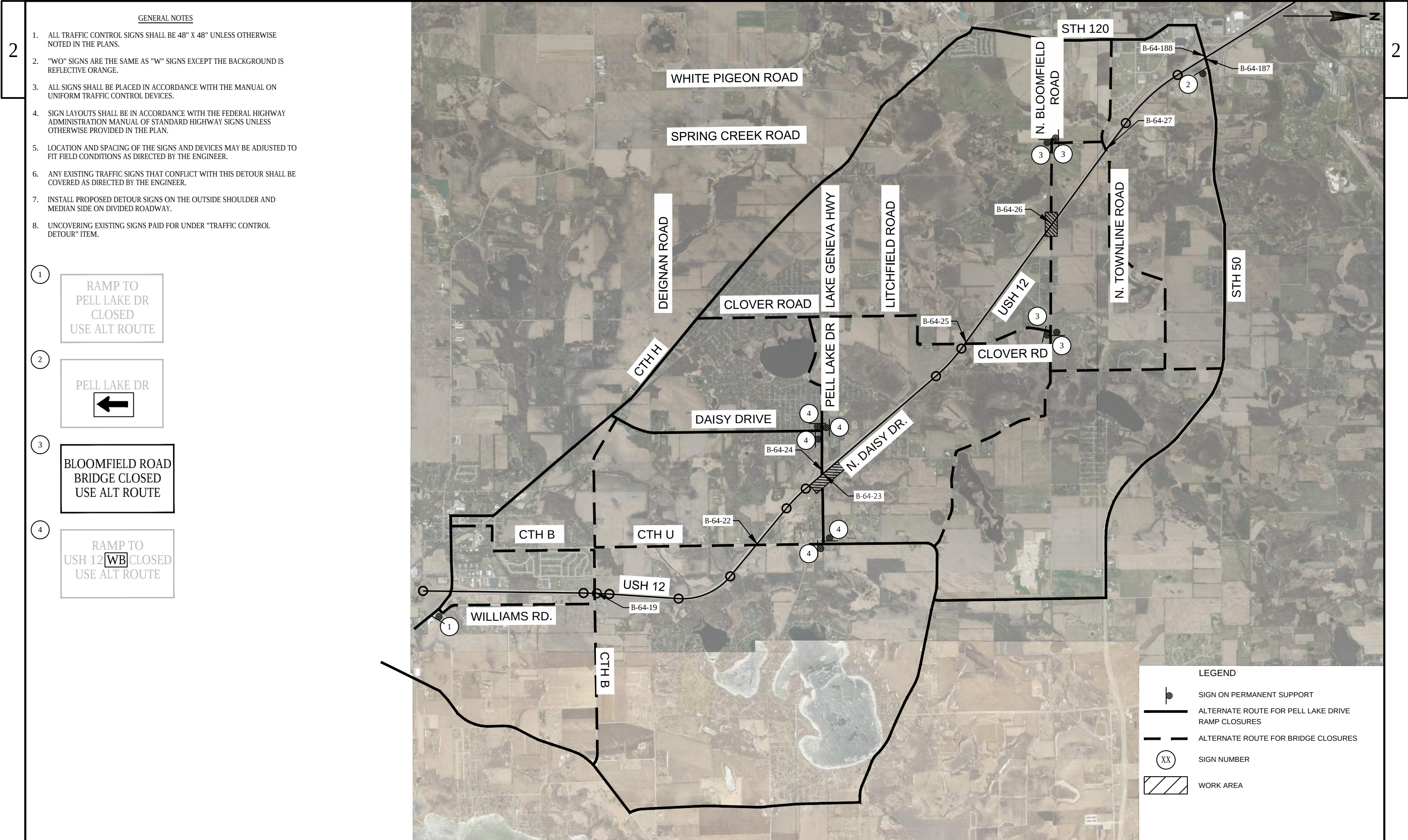
RAMP TO
USH 12 EB CLOSED
USE ALT ROUTE

5

CLOVER ROAD
BRIDGE CLOSED
USE ALT ROUTE

6

TOWNLINE ROAD
BRIDGE CLOSED
USE ALT ROUTE

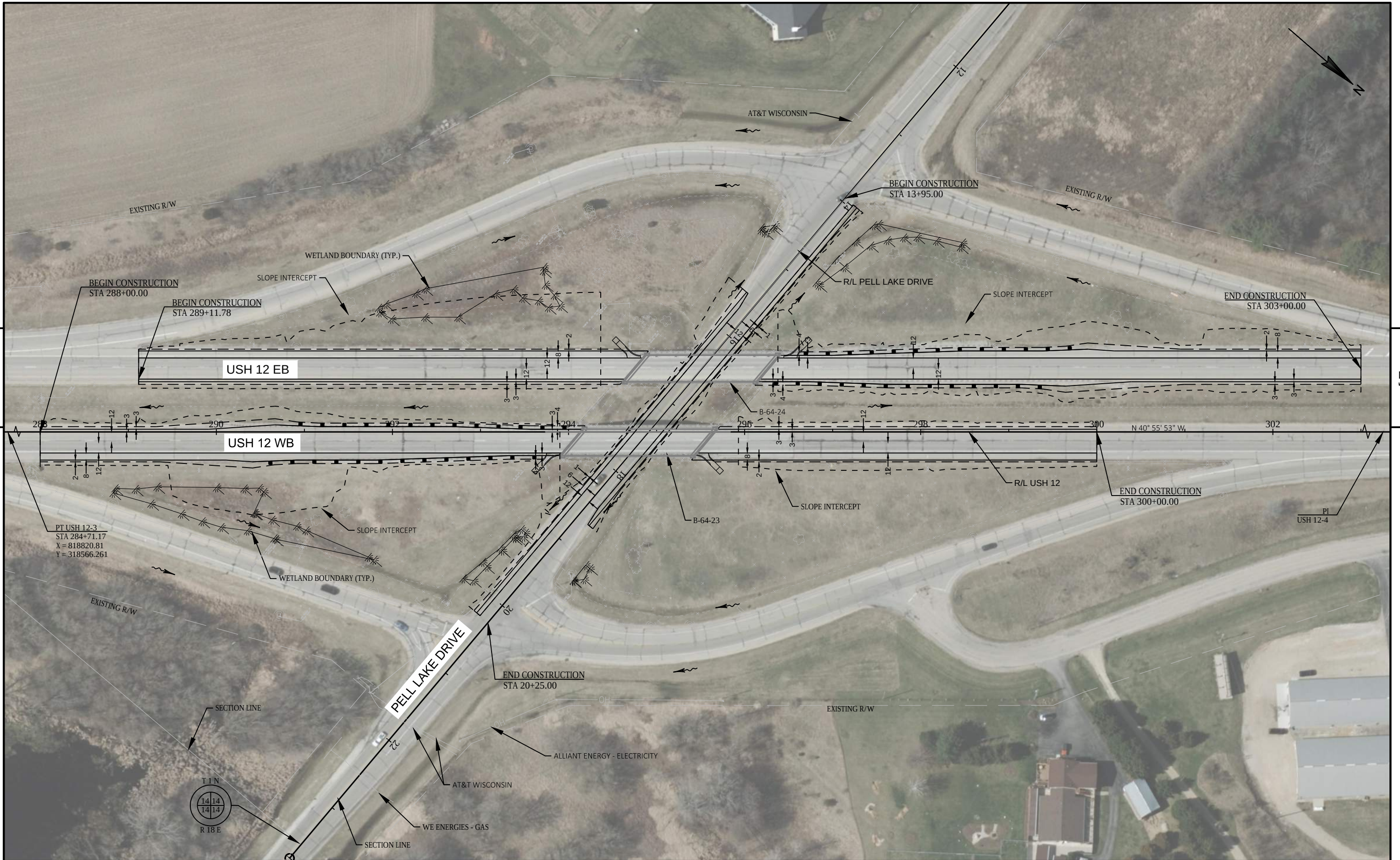




NOTE: CONTRACTOR TO VERIFY DEPTH
ABOVE BOX CULVERT FOR PLACEMENT
OF MGS POSTS. DO NOT DAMAGE TOP
OF BOX CULVERT

CURVE USH 12-2
PC = 203+95.32
X = 823926.883
Y = 312679.975
PI = 218+60.25
X = 824020.614
Y = 314141.907
PT = 231+03.65
X = 822890.265
Y = 315073.755
R = 2864.79
Delta = 54°10'00" Lt
D (arc) = 2°00'00"
T = 1464.93
L = 2708.33
E = 352.83
BK = N 3°40'07" E
AH = N 50°29'53" W



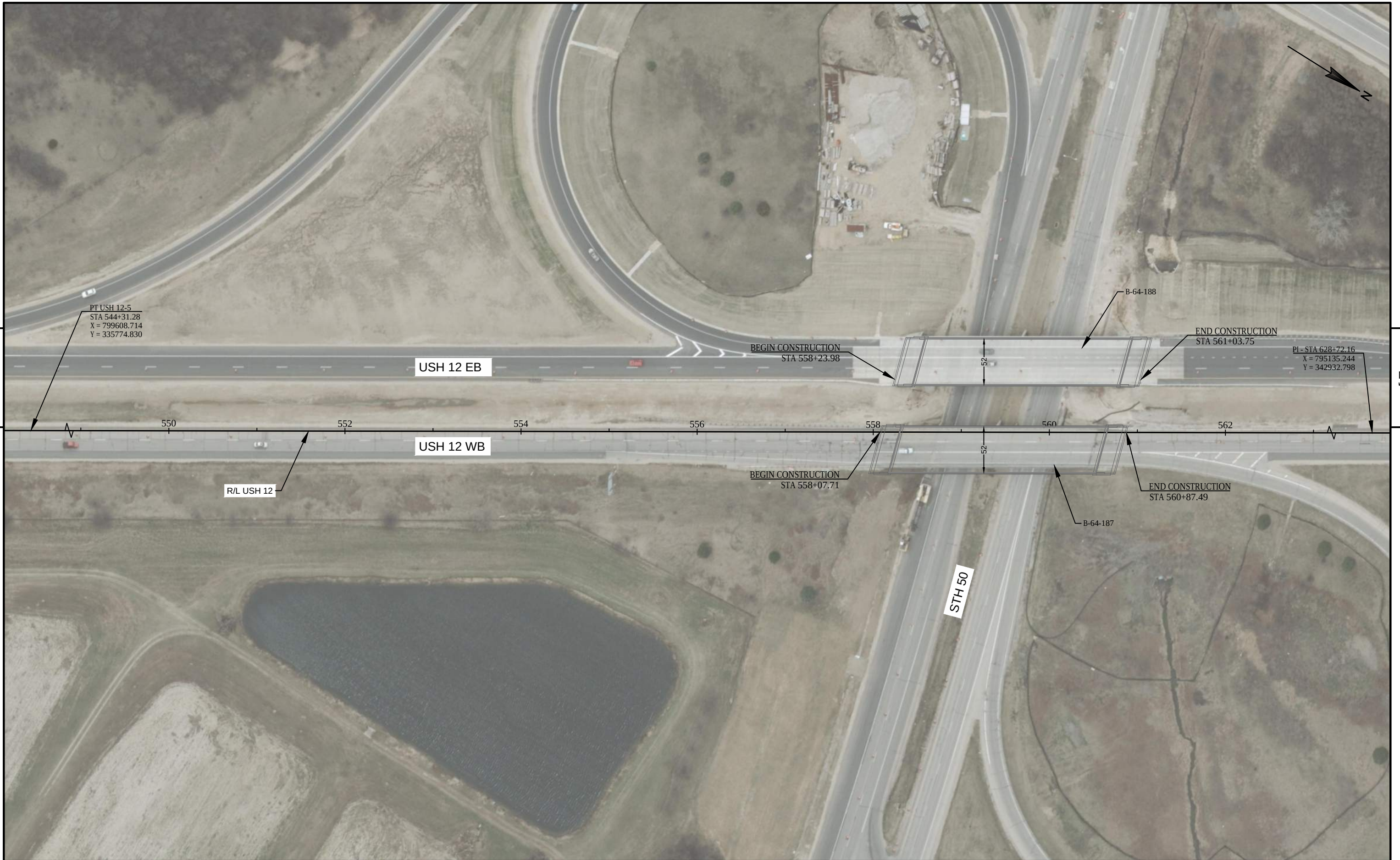


PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	PLAN: USH 12 AT PELL LAKE DRIVE	SHEET PRE_101	E
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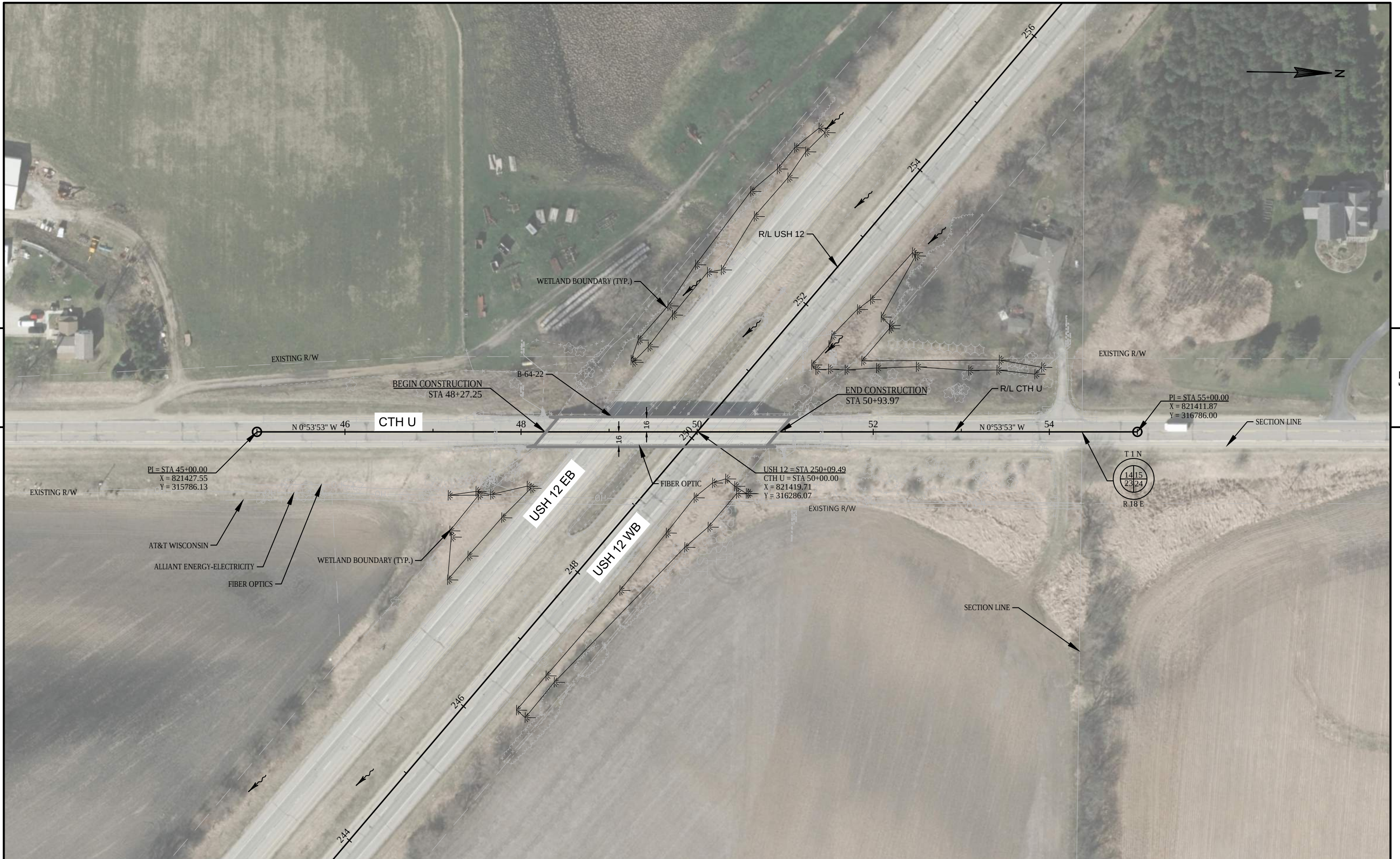


CURVE USH 12-4
PC = 364+52.12
X = 813592.040
Y = 324595.812
PI = 373+27.02
X = 813018.841
Y = 325256.796
PT = 381+94.34
X = 812311.073
Y = 325771.110
R = 7641.18
Delta = 13°03'49" LT
D (arc) = 0°44'59"
T = 874.90
L = 1742.22
E = 49.92
BK = N 40°55'53" W
AH = N 53°59'43" W

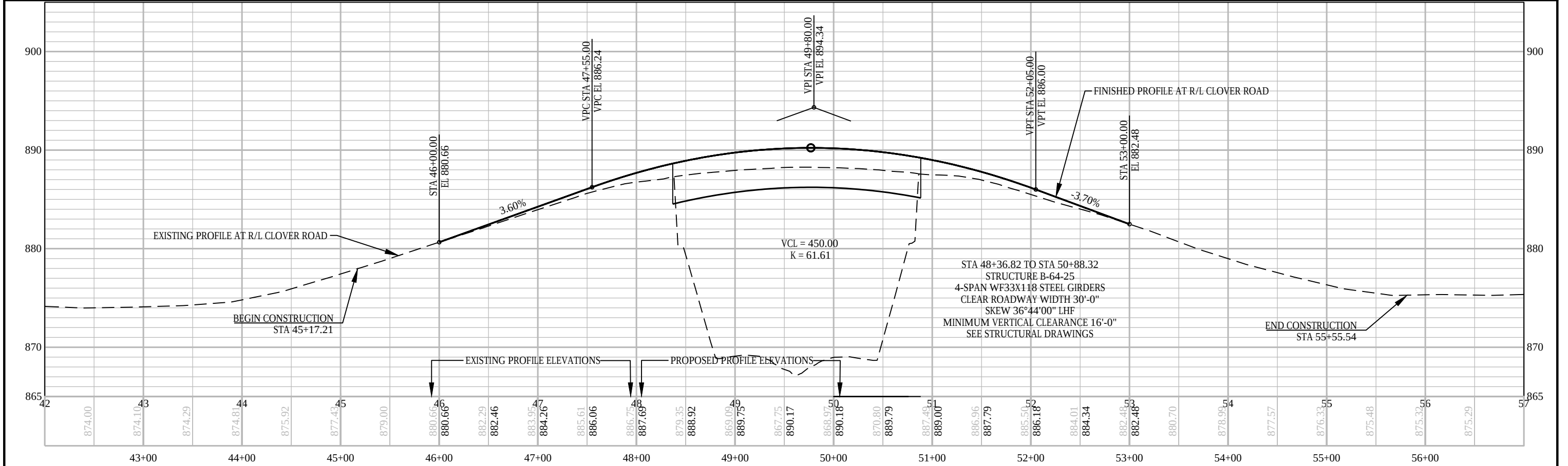
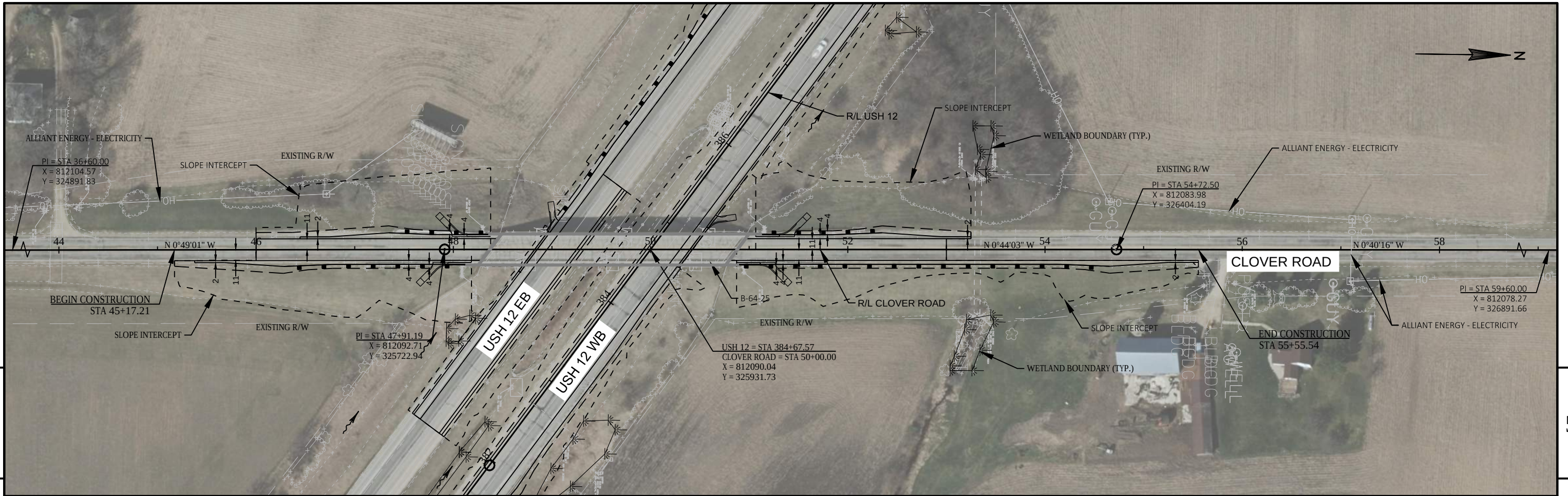
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	USH 12 AT CLOVER ROAD	SHEET PRE_102	E
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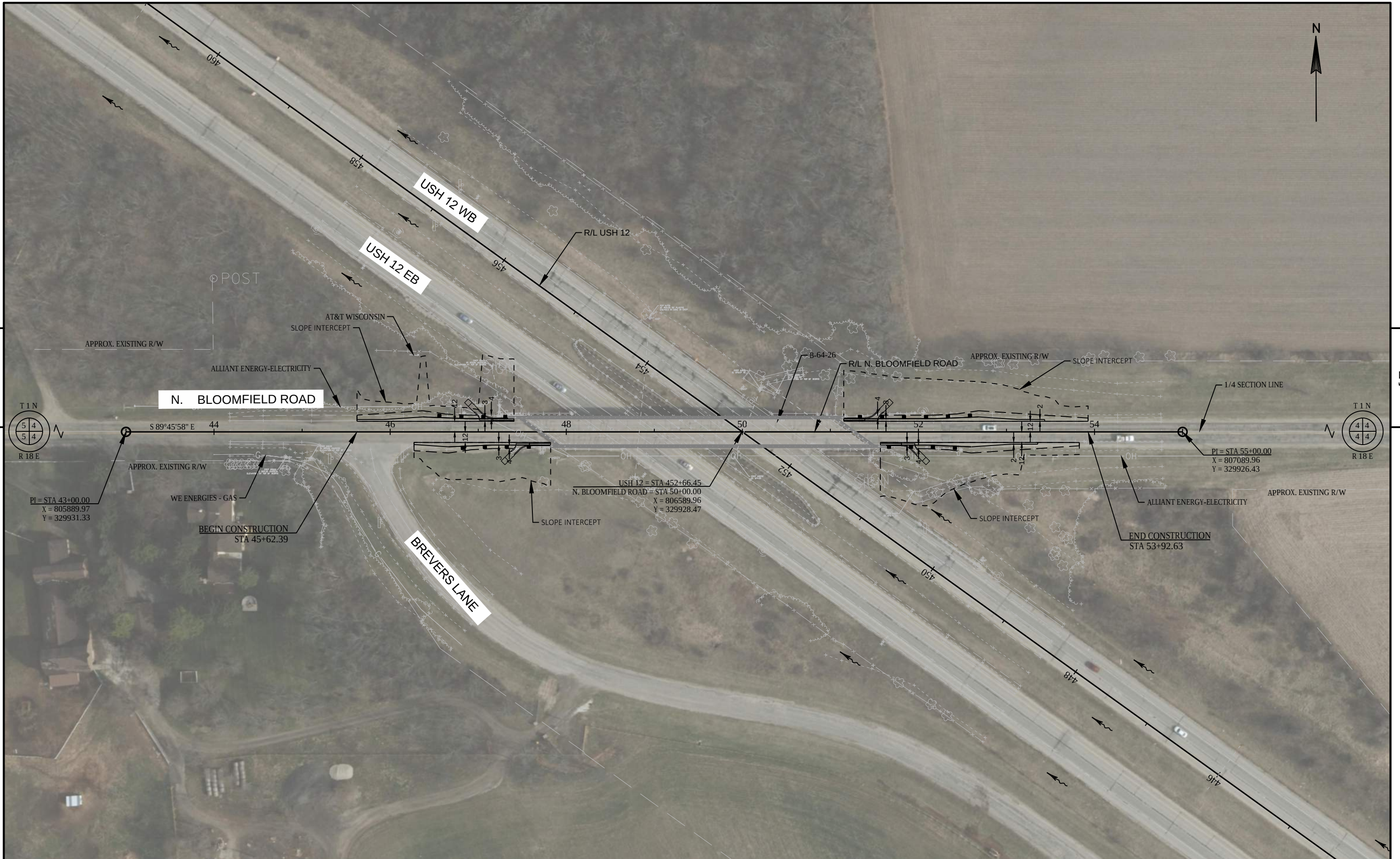






PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	PLAN: CTH U	SHEET PRE_105	E
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	PLAN: N. BLOOMFIELD ROAD	SHEET PRE_107	E
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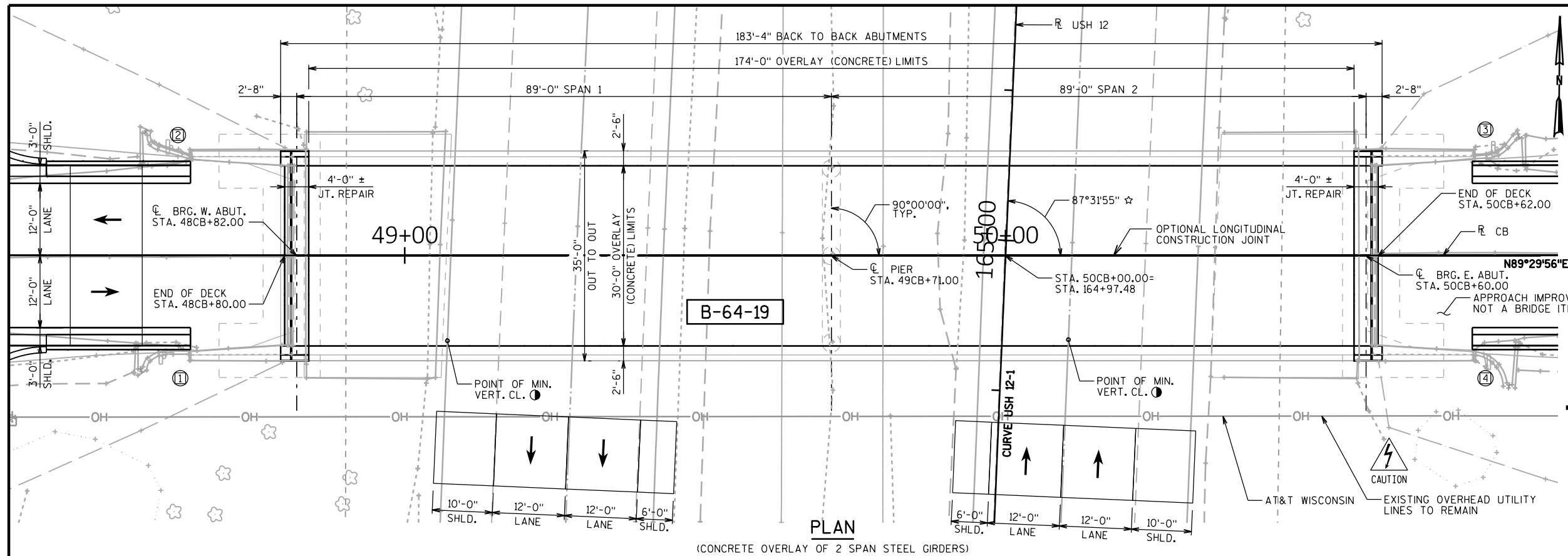


PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	PLAN: E. TOWNLINE ROAD	SHEET PRE_108	E
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FILE NAME : I:\68977\C3D\38390373\SHEETS\PLAN\050110-PP.DWG PLOT DATE : 7/1/2019 1:10 PM PLOT BY : CECILIA KASTEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

LAYOUT NAME - 050114-pn

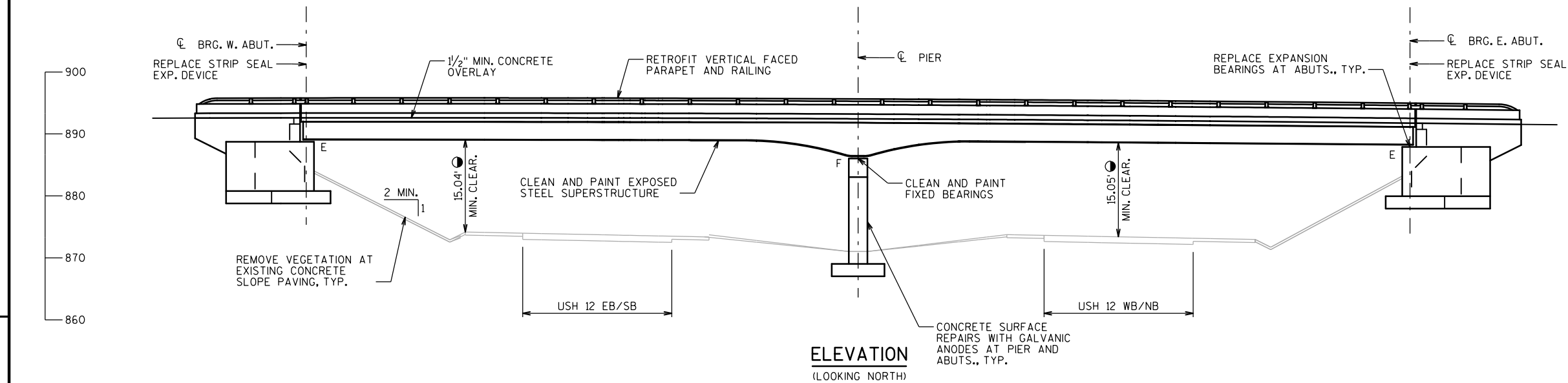
WISDOT/CADDs SHEET 44



STATE PROJECT NUMBER
3839-03-73

- LIST OF DRAWINGS
1. GENERAL PLAN & ELEVATION
 2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

- LEGEND
- TRAFFIC DIRECTION
 - (X) WING NUMBER
 - ☆ ANGLE MEASURED FROM LINE TANGENT TO USH 12 R. AT R. CTH B
 - LOCATION AND CLEARANCE DIMENSION TAKEN FROM INSPECTION REPORT DATED 5-25-2017



STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

TRAFFIC DATA
CTH B
EXISTING A.D.T. = 1,700 (2018)
FUTURE A.D.T. = 2,100 (2040)
R.D.S. = 55 M.P.H.

DESIGN DATA
LIVE LOAD
INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES
CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

HORIZONTAL CURVE DATA
CURVE USH 12-1
P.I. = 165+80.13
Δ = 2° 59' 51" R
D = 0° 14' 59"
T = 600.14'
L = 1,200.00'
R = 22,937.96'
P.C. = 159+79.99
P.T. = 171+79.99

PRELIMINARY PLANS

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-64-19			
CTH B OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE_109			

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

REMOVAL OF THE BRUSH CURB AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY, THE TOP OF ANY NEW DECK, THE TOPS OF PAVING BLOCKS, AND THE TOP AND CURB FACES OF NEW BRUSH CURBS ASSOCIATED WITH THE JOINT REPLACEMENT.

APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION. APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW SECTIONS OF PARAPET AT THE JOINT REPLACEMENT(S).

CLEAN AND APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACES OF THE BRUSH CURBS, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL".

PERFORM ALL PARAPET AND BRUSH CURB REPAIRS, SURFACE TREATMENT APPLICATIONS AND EXPANSION JOINT REPLACEMENT PRIOR TO INSTALLATION OF STEEL THRIE BEAM RAILING RETROFIT.

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

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- CURB REPAIR

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF BRUSH CURB AND PARAPETS WITHIN THE JOINT REPAIR LIMITS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO.5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1 1/2" CLEAR.

A MINIMUM OF 1/2-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 2 7/8". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-64-19".

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS UNDER THE BID ITEM "REMOVING BEARINGS B-64-19" AND REPLACE WITH LAMINATED ELASTOMERIC BEARINGS.

EXISTING FIXED BEARINGS AT THE PIER TO BE CLEANED AND PAINTED.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CROSS FRAMES, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-19". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, AMS STANDARD COLOR NUMBER 25240.

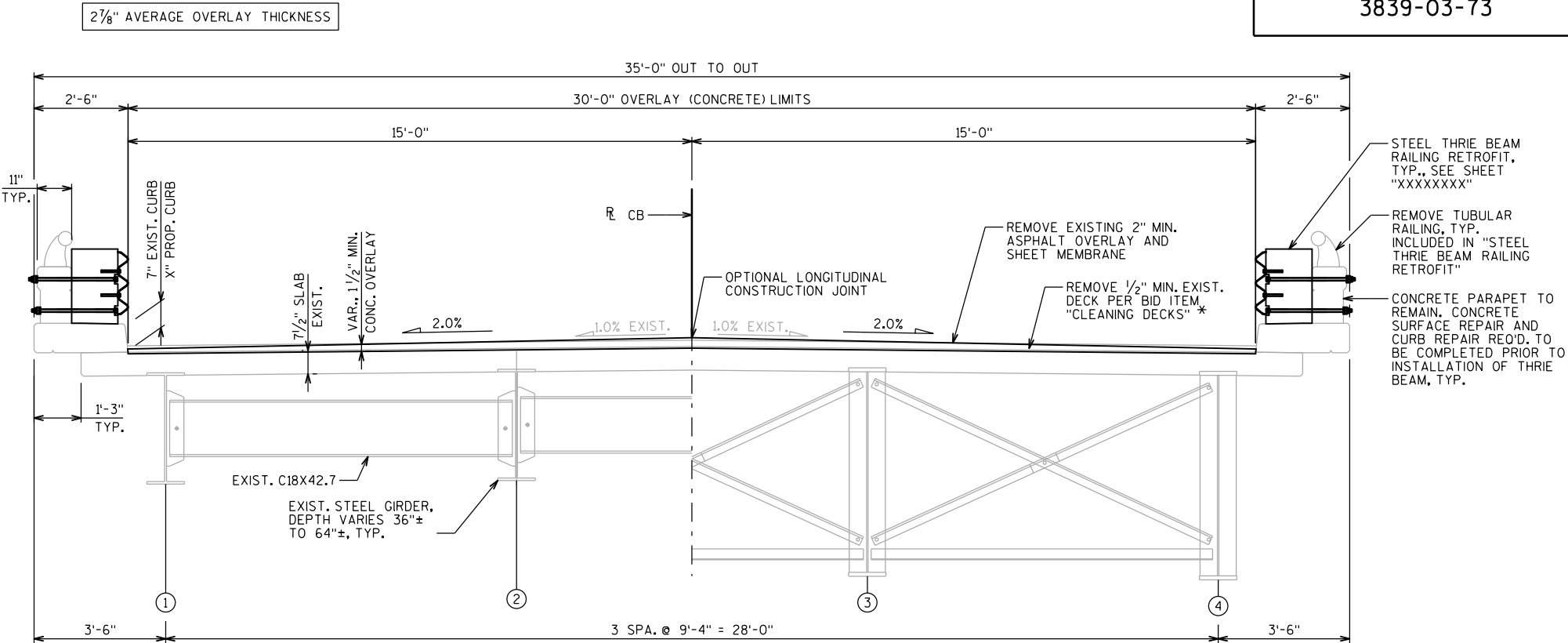
REMOVE ALL VEGETATION FROM EXISTING CONCRETE SLOPE PAVING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-64-19".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

<PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND ON-DECK WORK.>

STATE PROJECT NUMBER

3839-03-73



TYPICAL HALF SECTION

HALF SECTION AT PIER CROSS FRAME

TYPICAL SECTION
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

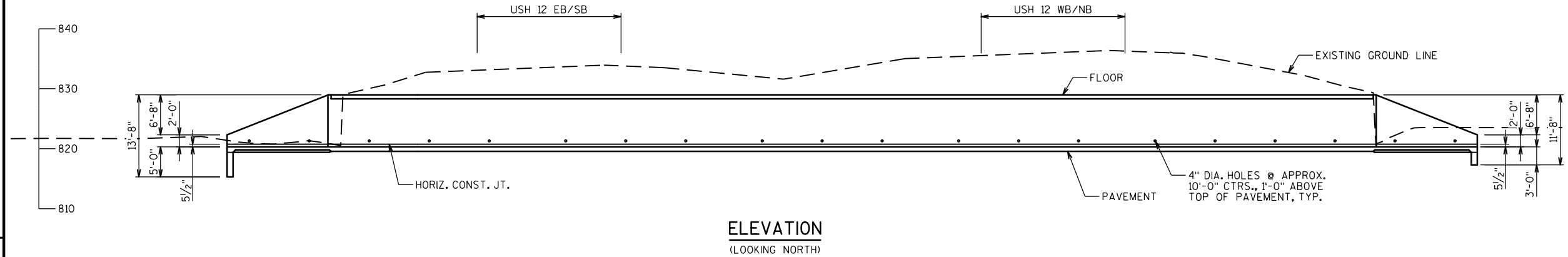
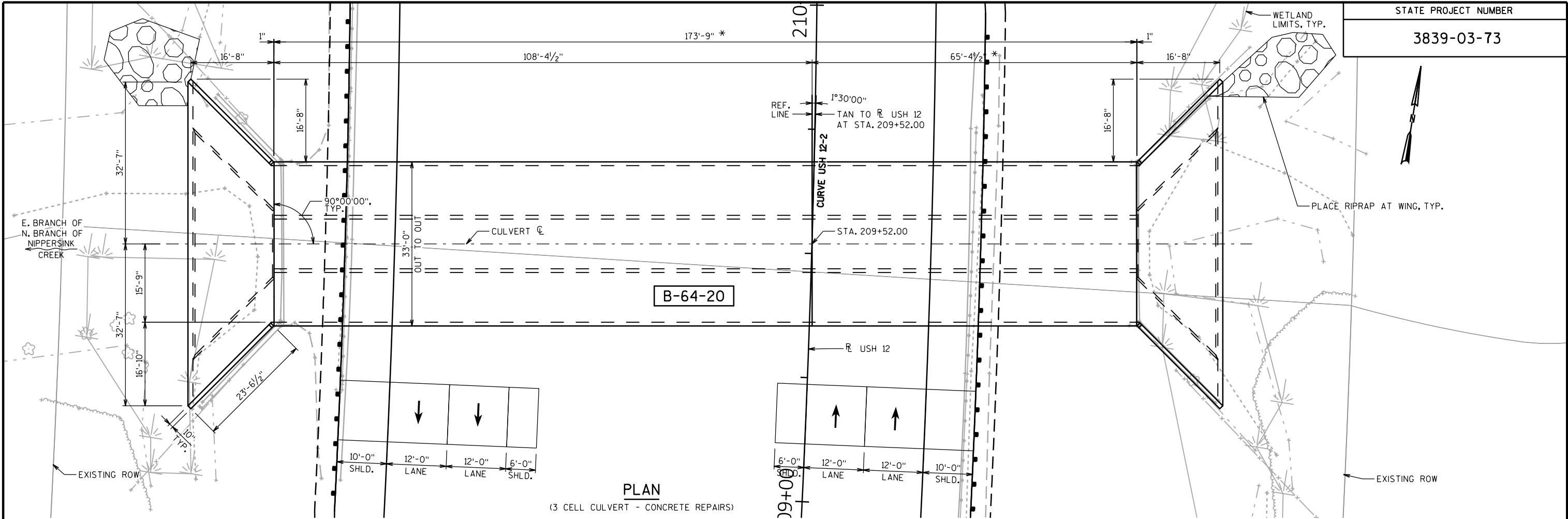
ITEM NO.	BID ITEM	UNIT	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-64-19	LS	
502.3100.XX	EXPANSION DEVICE B-64-19	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	
502.4205	ADHESIVE ANCHORS NO.5 BARS	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-19	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
* 509.0500	CLEANING DECKS	SY	
509.1000	JOINT REPAIR	SY	
509.1200	CURB REPAIR	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9010.S.XX	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-64-19	SY	
509.9050.S	CLEANING PARAPETS	LF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-19	LS	
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-19	LS	
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0090.XX	STEEL THRIE BEAM RAILING RETROFIT	LF	
SPV.0105.XX	VEGETATION REMOVAL B-64-19	LS	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

* REMOVE ONLY 1/2" OF EXISTING DECK, NOT 1" PER THE STANDARD SPECIFICATIONS

PRELIMINARY PLANS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-19			
	DRAWN BY	HDA	PLANS CK'D. EAJ
TYPICAL SECTIONS			SHEET 2 OF 2
PRE_110			



STATE PROJECT NUMBER
3839-03-73

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB		11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-20			
USH 12 OVER E. BRANCH N. BRANCH NIPPERSINK CREEK			
COUNTY		TOWN	
WALWORTH		BLOOMFIELD	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE_111			

TRAFFIC DATA
USH 12
EXISTING A.D.T. = 9,500 (2015)
FUTURE A.D.T. = 11,800 (2040)
R.D.S. = 70 M.P.H.

DESIGN DATA
LIVE LOAD
INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES
CONCRETE MASONRY f'c = 3,500 psi
BAR STEEL REINFORCEMENT fy = 60,000 psi

HORIZONTAL CURVE DATA
CURVE USH 12-2
P.I. = 218+60.25
Δ = 54° 10' 00" L
D = 2° 00' 00" L
T = 1,464.93'
L = 2,708.33'
R = 2,864.79'
P.C. = 203+95.32
P.T. = 231+03.65

LIST OF DRAWINGS
1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS, GENERAL NOTES & QUANTITIES

LEGEND
→ TRAFFIC DIRECTION
* LENGTH SHOWN BASED ON SURVEYED STRUCTURE. BOX LENGTH PER ORIGINAL PLANS IS 163'-9".

PRELIMINARY PLANS

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

3839-03-73



* FROM HSI SYSTEM 1/8/2018 (HSI ZERO VALUES NOT SHOWN)

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0600.S.XX	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 209+52	LS	
509.1500	CONCRETE SURFACE REPAIR	SF	
606.0300	RIPRAP HEAVY	CY	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0105.XX	VEGETATION AND DEBRIS REMOVAL B-64-20	LS	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-20			
DRAWN BY		HDA	PLANS CK'D. EAJ
TYPICAL SECTION, GENERAL NOTES & QUANTITIES		SHEET 2 OF 2	
		PRE 112	

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

TRAFFIC DIRECTION	CLEARANCE LOCATION AND MIN. DIMENSION FROM 11-30-2017 SURVEY	WING NUMBER	LOCATION OF SURFACE DRAIN ANCORS

(SUBSTRUCTURE REPAIRS AND PAINTING - 4 SPAN STEEL GIRDERS)

(LOOKING WEST)

CTH U
EXISTING A.D.T. = 1,500 (2009)
FUTURE A.D.T. = 2,100 (2040)
R.D.S. = 60 M.P.H.

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

CONCRETE MASONRY:

CONCRETE MASONRY:

SUPERSTRUCTURE	f'_c = 4,000 psi
ALL OTHER	f'_c = 3,500 psi

PRELIMINARY PLANS

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE _____	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-22			
CTH U OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	XX
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE 113			

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

BEVEL EDGES OF EXPOSED CONCRETE 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS UNDER THE BID ITEM "REMOVING BEARINGS B-64-22" AND REPLACE WITH NEW STEEL EXPANSION BEARINGS. <EXISTING ABUTMENT BEARINGS TO BE EVALUTED WITH REGION MAINTENANCE DURING FINAL DESIGN TO DETERMINE WHICH SHOULD BE REPLACED OR RETROFIT.>

EXISTING FIXED BEARINGS AT PIER 2, EXISTING EXPANSION BEARINGS AT PIERS AND 3, AND EXISTING EXPANSION BEARINGS TO REMAIN AT ABUTMENTS TO BE CLEANED AND PAINTED.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-22". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

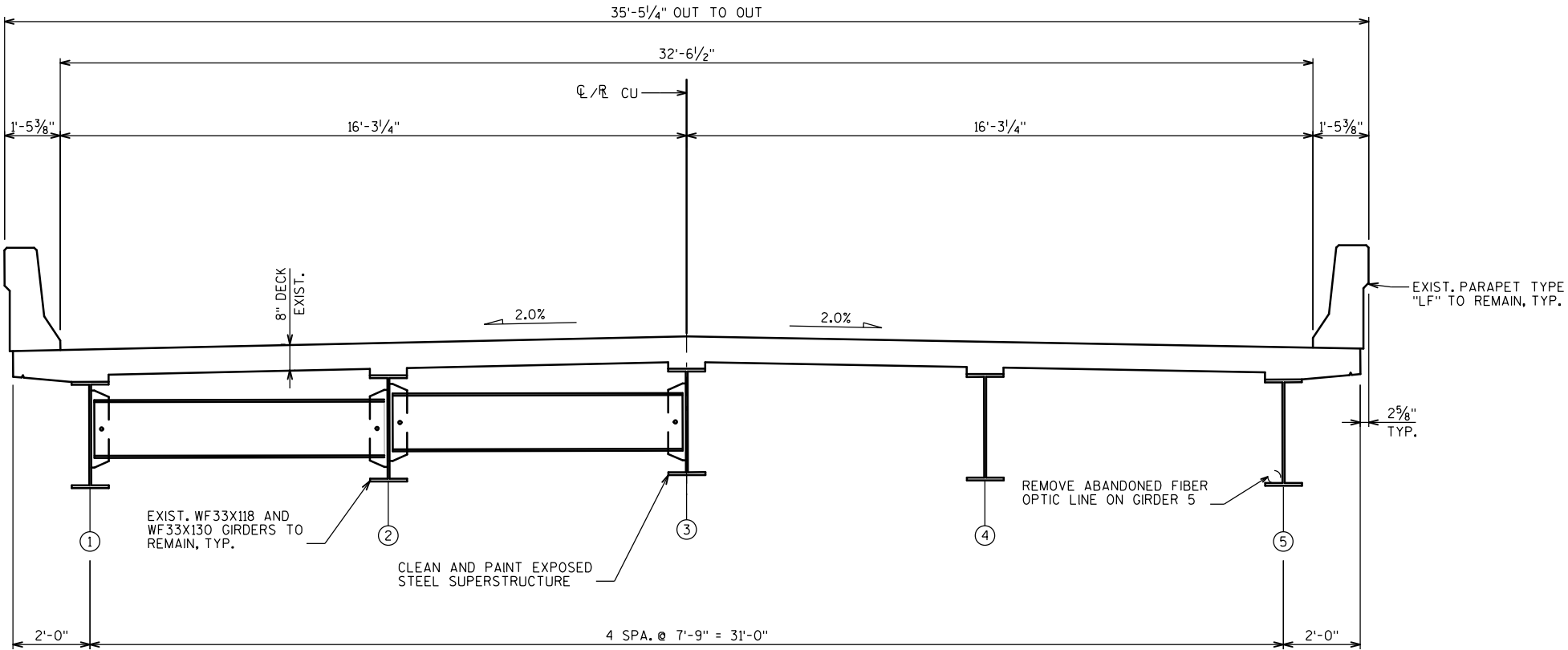
EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, AMS COLOR NUMBER 25240.

REMOVE ALL VEGETATION FROM EXISTING CONCRETE SLOPE PAVING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-64-22".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

STATE PROJECT NUMBER

3839-03-73



AT DIAPHRAGMS

IN SPAN

TYPICAL SECTION

(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
506.6000	BEARING ASSEMBLIES EXPANSION B-64-22	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-22	EACH	
509.1500	CONCRETE SURFACE REPAIR	SF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-22	LS	1
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-22	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0105.XX	VEGETATION REMOVAL B-64-22	LS	1
SPV.0165.XX	FIBER WRAP COLUMN REINFORCING	SF	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-22			
		DRAWN BY HDA	PLANS CK'D. XXX
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE_114			

PRELIMINARY PLANS

STATE PROJECT NUMBER

3839-03-73

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS, GENERAL NOTES & QUANTITIES

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE LOCATION AND MIN. DIMENSION FROM 11-3-2017 SURVEY
- ⊗ WING NUMBER
- * LOCATION OF "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD"

PLAN

(CONCRETE OVERLAY, 3-SPAN STEEL GIRDERS)

ELEVATION

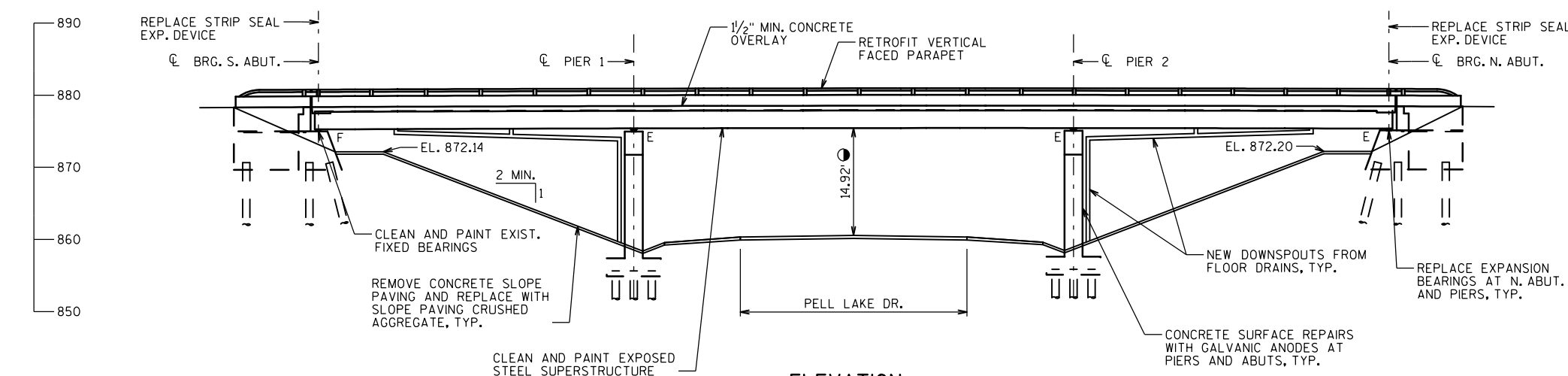
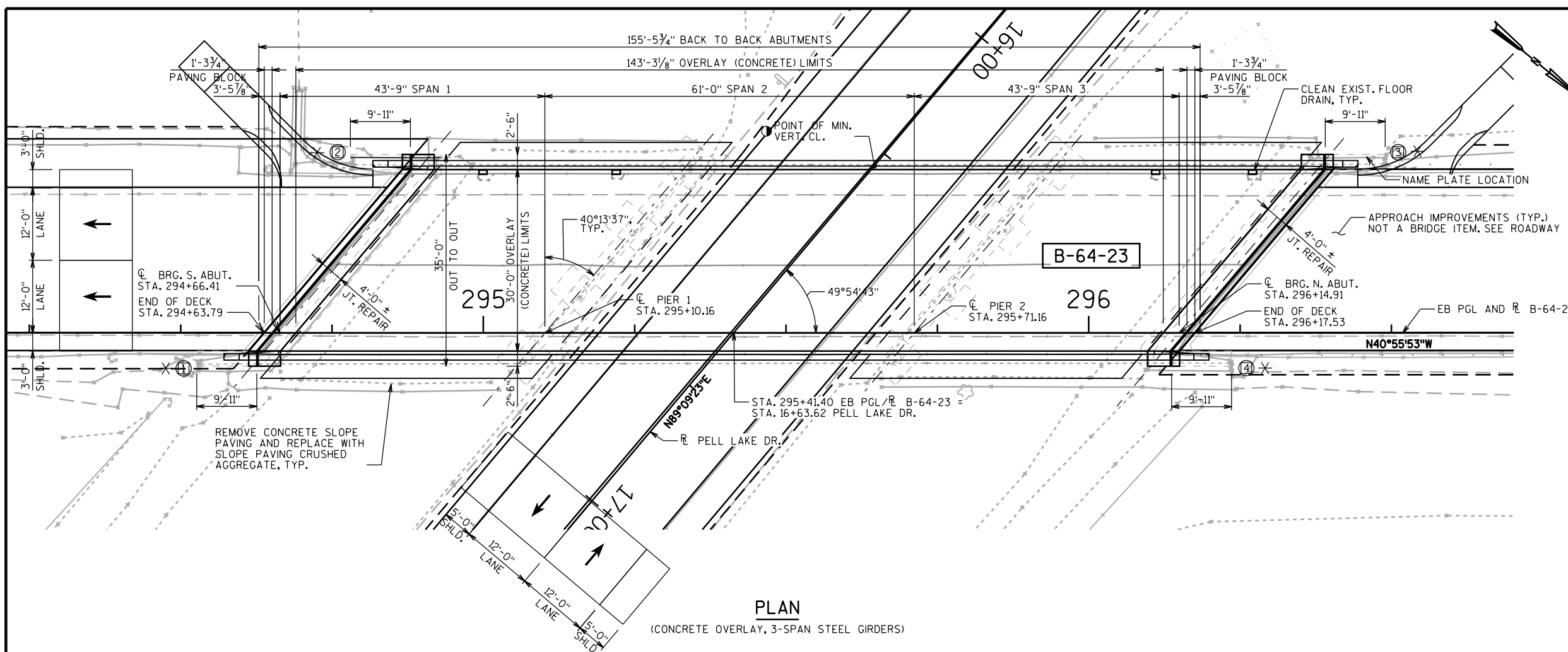
(LOOKING WEST)

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
		11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		CHIEF STRUCTURES DESIGN ENGINEER	DATE _____
STRUCTURE B-64-23			
USH 12 EB/SB OVER PELL LAKE DR.			
COUNTY	WALWORTH		TOWN BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D. PJC	DRAWN BY HDA
			PLANS CK'D. XXX
GENERAL PLAN & ELEVATION			SHEET 1 OF
			PRE 115

PRELIMINARY PLANS



TRAFFIC DATA

USH 12
EXISTING A.D.T. = 9,500 (2015)
FUTURE A.D.T. = 11,800 (2040)
R.D.S. = 70 M.P.H.

PELL LAKE DR.

EXISTING A.D.T. = 3,700 (2015)
FUTURE A.D.T. = 5,200 (2040)
R.D.S. = 40 M.P.H.

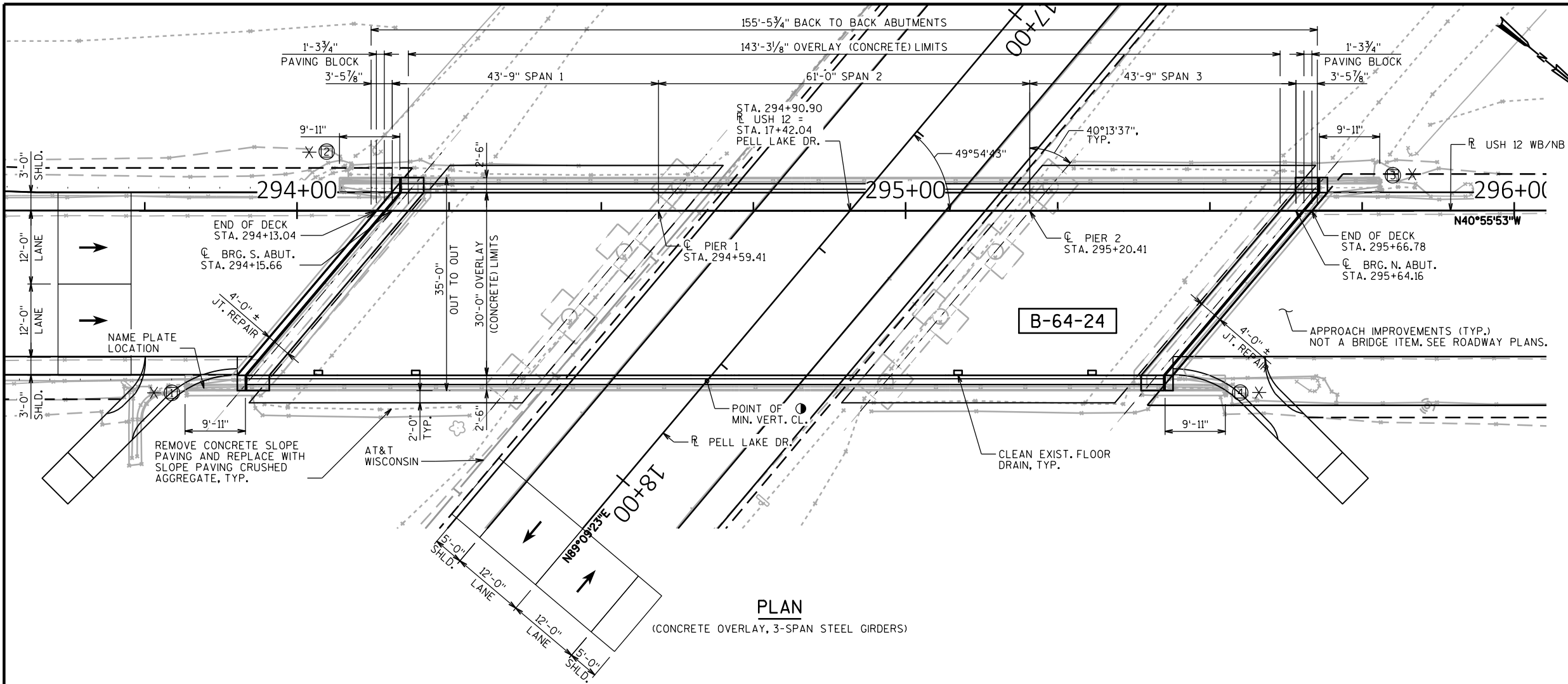
DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

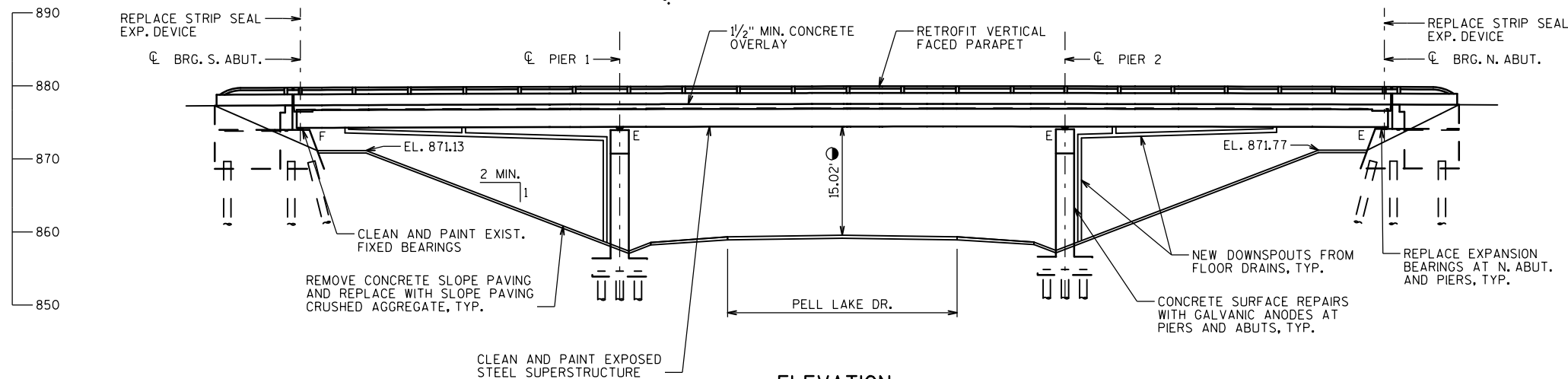
MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'_c = 4,000 psi
ALL OTHER..... f'_c = 3,500 psi
BAR STEEL REINFORCEMENT..... f_y = 60,000 psi



PLAN

(CONCRETE OVERLAY, 3-SPAN STEEL GIRDERS)



ELEVATION

(LOOKING WEST)

TRAFFIC DATA

USH 12
EXISTING A.D.T. = 9,500 (2015)
FUTURE A.D.T. = 11,800 (2040)
R.D.S. = 70 M.P.H.

PELL LAKE DR.

EXISTING A.D.T. = 3,700 (2015)
FUTURE A.D.T. = 5,200 (2040)
R.D.S. = 40 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

STATE PROJECT NUMBER

3839-03-73

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE LOCATION AND MIN. DIMENSION FROM 11-3-2017 SURVEY
- ⊗ WING NUMBER
- * LOCATION OF "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD"

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-64-24			
USH 12 WB/NB OVER PELL LAKE DR.			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	XXX
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE_117			

PRELIMINARY PLANS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

BID ITEM "REMOVING OLD STRUCTURE STA.295+00" INCLUDES REMOVAL OF THE TUBULAR RAILINGS, TOPS OF THE CONCRETE PARAPETS, AND TOES OF THE BRUSH CURBS. THIS WORK ALSO COVERS REMOVAL OF LOOSE CONCRETE ON THE INSIDE FACES OF THE CONCRETE PARAPETS AND THE BRUSH CURBS PRIOR TO PLACEMENT OF NEW CONCRETE FOR THE 42SS PARAPET SHAPE.

REMOVAL OF THE TOPS OF THE CONCRETE PARAPETS SHALL BE DEFINED WITH A 1-INCH DEEP SAW CUT.

REMOVAL OF EXISTING CONCRETE SLOPE PAVING PAID FOR UNDER "REMOVING CONCRETE SLOPE PAVING".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY, THE TOP OF ANY NEW DECK, AND THE TOPS OF PAVING BLOCKS.

APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW 42SS PARAPETS.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- CRACK SEALING EPOXY
- EPOXY CRACK SEALING

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE FOR THE DECK AND PAVING BLOCKS AT JOINT REPAIR AREA IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE FOR 42SS PARAPET SHAPE, INCLUDING WITHIN THE JOINT REPAIR LIMITS, IS PAID FOR AS "CONCRETE MASONRY BRIDGES".

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO.5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

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

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-64-24".

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE NORTH ABUTMENT AND PIERS UNDER THE BID ITEM "REMOVING BEARINGS B-64-24" AND REPLACE WITH LAMINATED ELASTOMERIC BEARINGS.

CLEAN AND PAINT EXISTING FIXED BEARINGS AT THE SOUTH ABUTMENT.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CROSS FRAMES, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-24". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, AMS STANDARD COLOR NUMBER 25240.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

VERIFY DRAIN DOWNSPOUTS ARE NOT CLOGGED ONCE CONSTRUCTION COMPLETED. CLOGGED DOWNSPOUTS TO BE CLEANED OUT AND CONSIDERED INCIDENTAL TO "ADJUSTING FLOOR DRAINS". <OR TO "CONCRETE MASONRY OVERLAY" IF NOT ADJUSTING DRAINS>

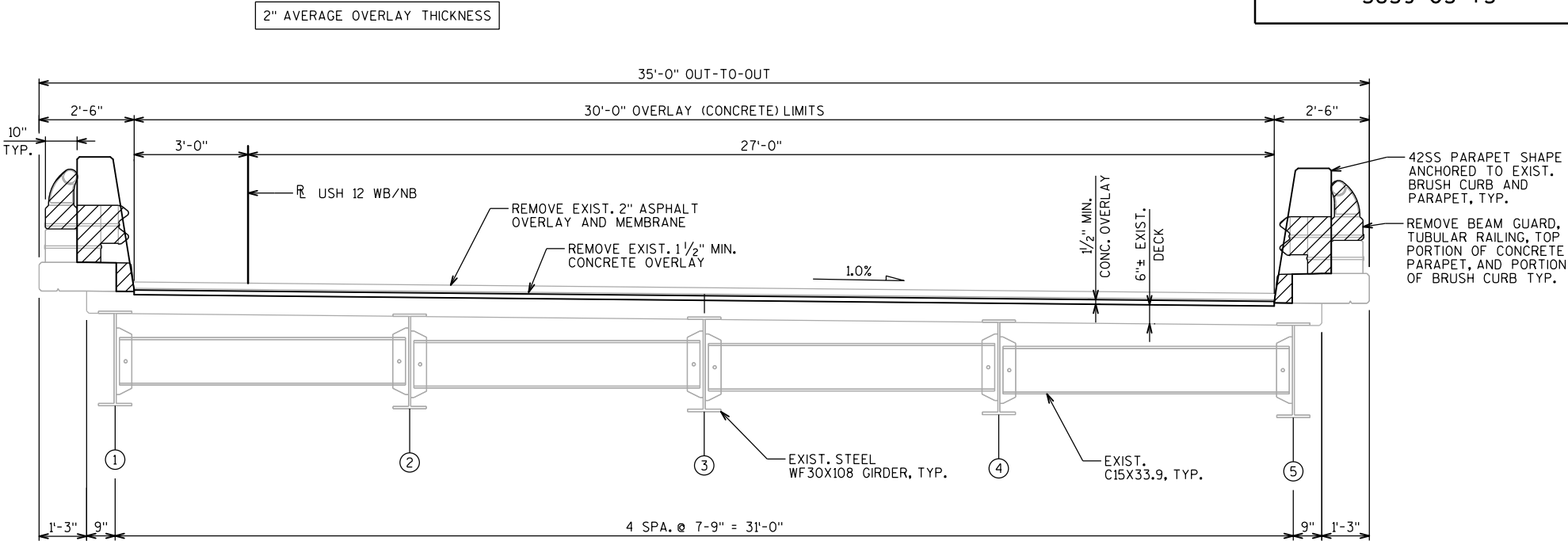
EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING AND SLOPING OF 1 1/2" CONCRETE OVERLAY.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECICAITONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1965 AND SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

<PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND ON-DECK WORK.>

STATE PROJECT NUMBER

3839-03-73



TYPICAL SECTION

(LOOKING NORTH)

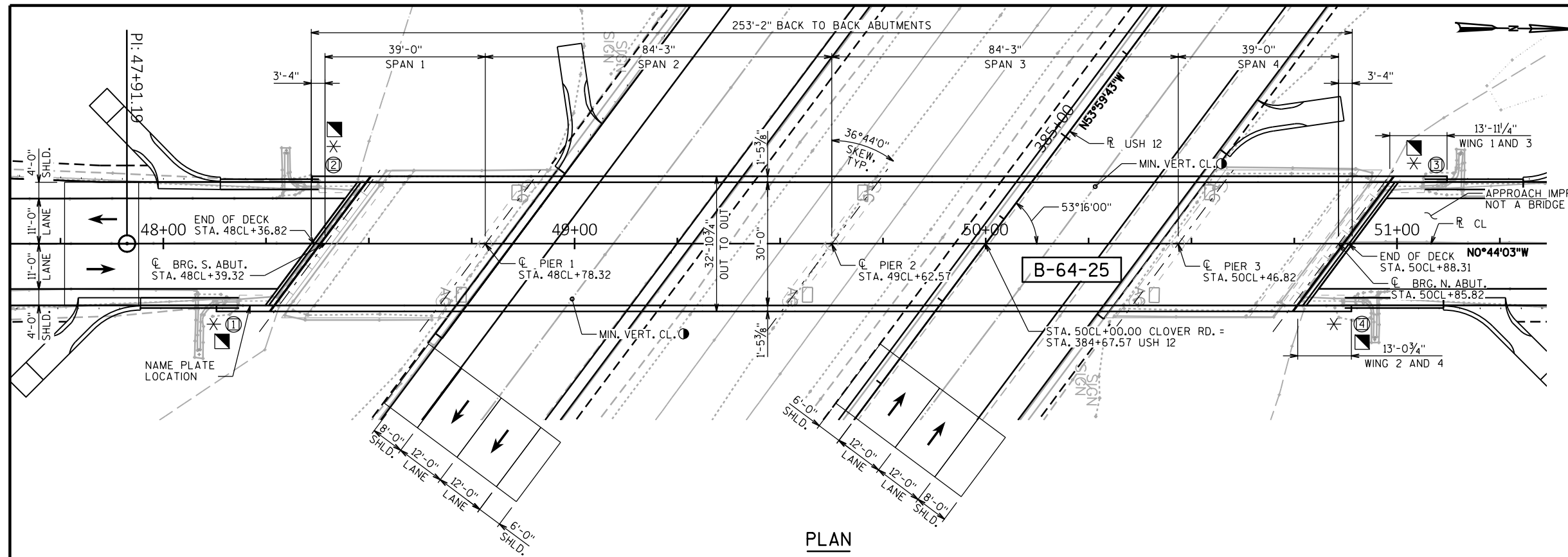
TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0200.XX	REMOVING OLD STRUCTURE STA.295+00	LS	
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-64-24	LS	
204.0175	REMOVING CONCRETE SLOPE PAVING	SY	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.0717.S	CRACK SEALING EPOXY	LF	
502.3100.XX	EXPANSION DEVICE B-64-24	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.42XX	ADHESIVE ANCHORS NO. X BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-24	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY	SY	
509.1000	JOINT REPAIR	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9005.S.XX	REMOVING CONCRETE MASONRY DECK OVERLAY B-64-24	SY	
509.9010.S.XX	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-64-24	SY	
509.9020.S	EPOXY CRACK SEALING	LF	
514.2625	DOWNSPOUT 6-INCH	LF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-24	LS	
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-24	LS	
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	
604.0500	RIPRAP MEDIUM	CY	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0060.XX	CLEAN DECK DRAINS	EACH	
SPV.0180.XX	CLEAN ABUTMENT SEATS	SY	
	NAME PLATE	EACH	
	PREFORMED JOINT FILLER	SIZE	

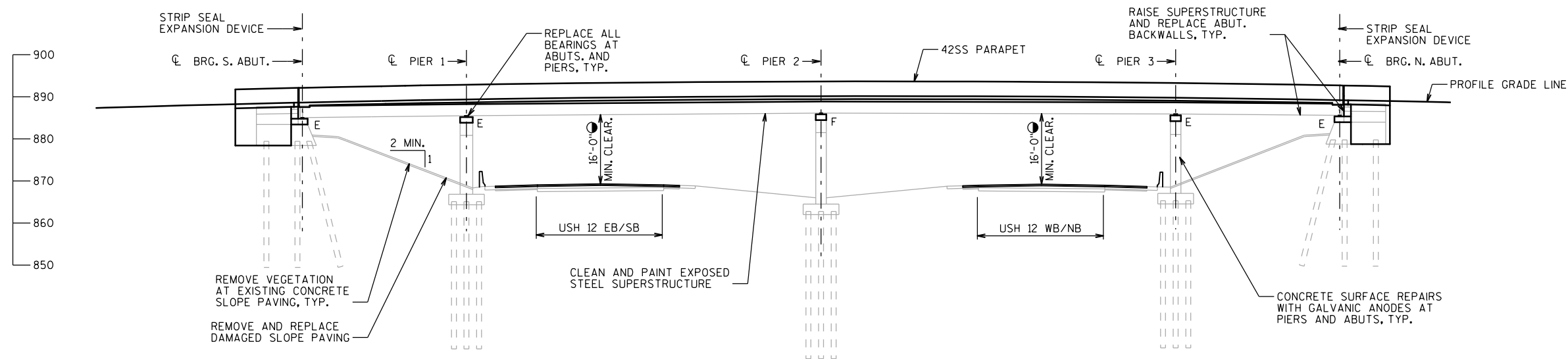
ALL ITEMS ARE CATEGORY XXXX

PRELIMINARY PLANS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-24			
		DRAWN BY HDA	PLANS CKD. XXX
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE			118



PLAN
(DECK REPLACEMENT & RAISING OF 4 SPAN STEEL GIRDERS)



ELEVATION
(LOOKING WEST)

TRAFFIC DATA

CLOVER RD.
EXISTING A.D.T. = 1,800 (2009)
FUTURE A.D.T. = 2,300 (2040)
R.D.S. = 45 M.P.H.

USH 12

EXISTING A.D.T. = 13,600 (2015)
FUTURE A.D.T. = 17,200 (2040)
R.D.S. = 70 M.P.H.

DESIGN DATA

LIVE LOAD

DESIGN LOADING: HS20
INVENTORY RATING: HS19
OPERATING RATING: HS32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

STATE PROJECT NUMBER

3839-03-73

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS
3. GENERAL NOTES & QUANTITIES

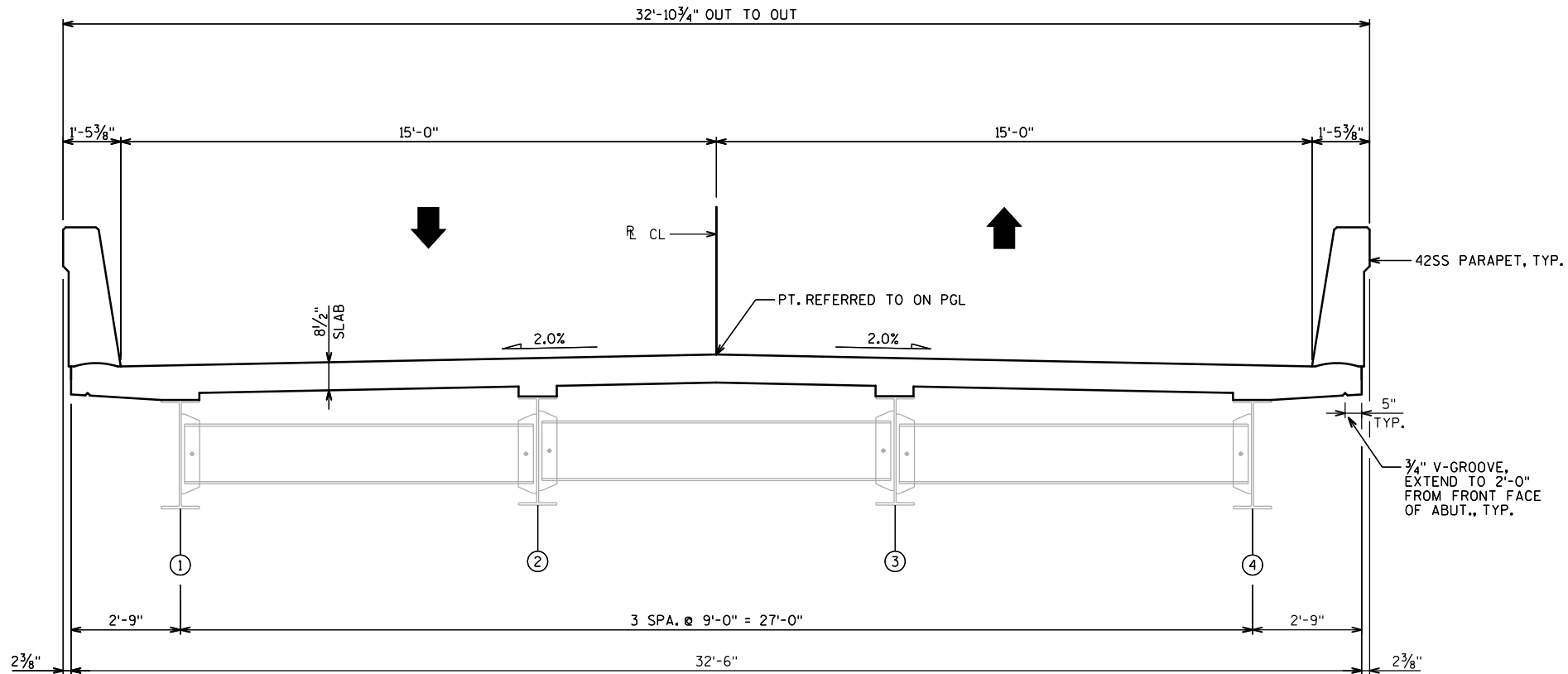
LEGEND

- TRAFFIC DIRECTION
- ⊗ WING NUMBER
- ✱ LOCATION OF "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD"
- ▣ LOCATION OF SURFACE DRAIN ANCORS
- LOCATION AND CLEARANCE DIMENSION TO BE DETERMINED IN FINAL DESIGN

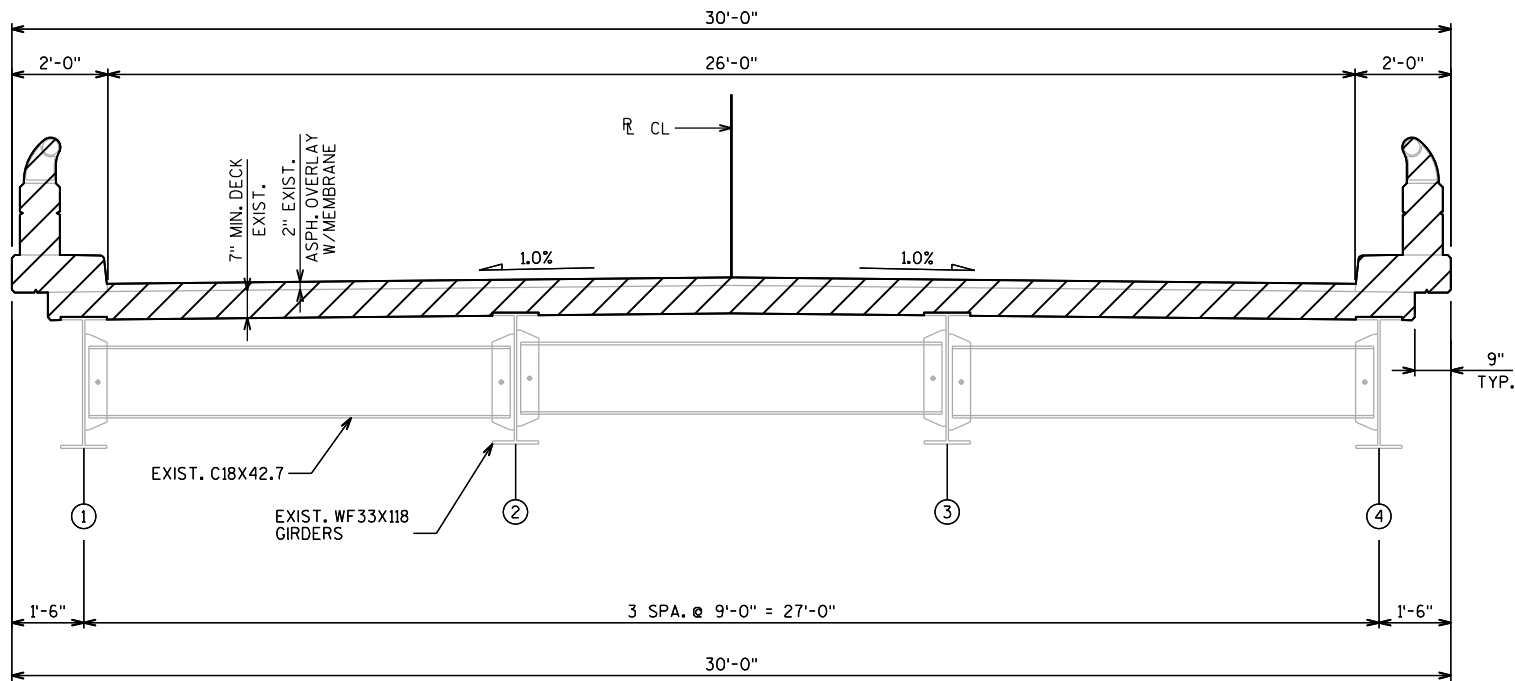
STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ DATE _____ CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-25			
CLOVER RD. OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 3
PRE_119			

**PROPOSED TYPICAL SECTION**

(LOOKING NORTH)

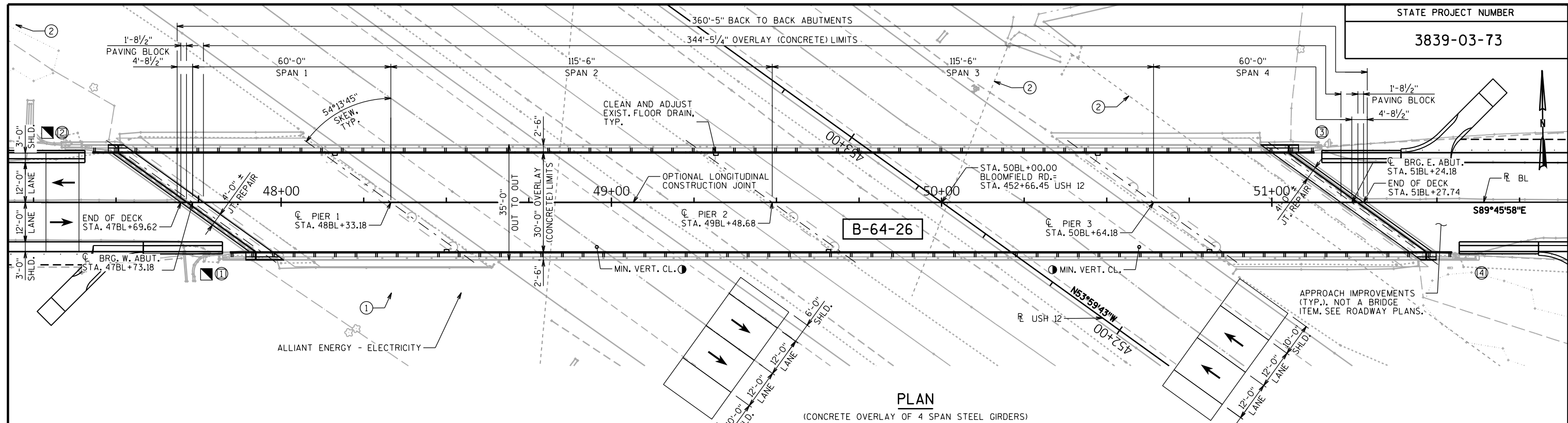
**EXISTING TYPICAL SECTION**

(LOOKING NORTH)

LEGEND

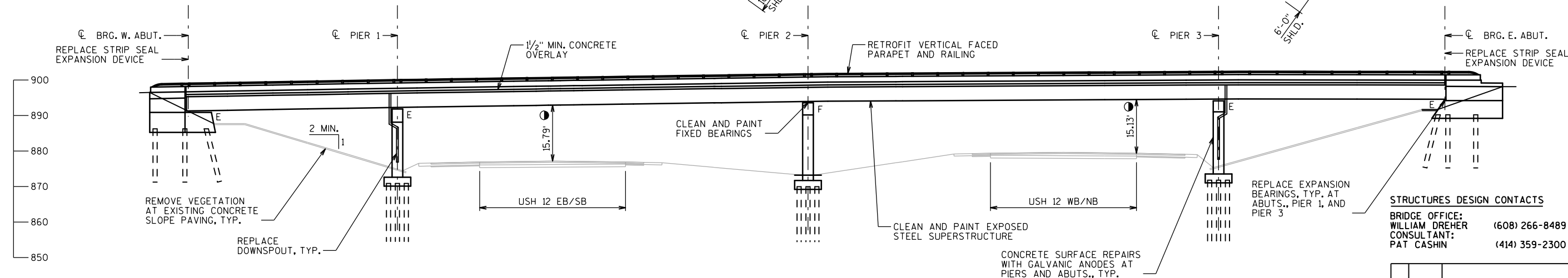
REMOVAL LIMITS. REMOVAL TO INCLUDE ASPHALT OVERLAY, DECK, BRUSH CURB, PARAPETS, AND ALUMINUM RAILINGS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-25			
DRAWN BY		HDA	PLANS CK'D. EAJ
TYPICAL SECTION			SHEET 2 OF 3
PRE_120			



PLAN

(CONCRETE OVERLAY OF 4 SPAN STEEL GIRDERS)



ELEVATION

(LOOKING NORTH)

UTILITY NOTES

- ① EXISTING OVERHEAD LINES TO REMAIN
- ② EXISTING DRAINAGE PIPE TO REMAIN

TRAFFIC DATA

BLOOMFIELD RD.
EXISTING A.D.T. = 1,300 (2012)
FUTURE A.D.T. = 1,600 (2040)
R.D.S. = 50 M.P.H.

USH 12

EXISTING A.D.T. = 13,600 (2015)
FUTURE A.D.T. = 17,200 (2040)
R.D.S. = 70 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY OVERLAY DECKS f'c = 4,000 psi
CONCRETE MASONRY:
SUPERSTRUCTURE f'c = 4,000 psi
ALL OTHER f'c = 3,500 psi
BAR STEEL REINFORCEMENT fy = 60,000 psi

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE LOCATION AND MIN. DIMENSION FROM 11-30-2017 SURVEY
- ⊗ WING NUMBER
- LOCATION OF SURFACE DRAIN ANCORS

LIST OF DRAWINGS

- 1. GENERAL PLAN & ELEVATION
- 2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

PRELIMINARY PLANS

STATE PROJECT NUMBER

3839-03-73

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ DATE _____ CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-26			
BLOOMFIELD RD. OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE_121			

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

REMOVAL OF THE BRUSH CURB AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY, THE TOP OF ANY NEW DECK, THE TOPS OF PAVING BLOCKS, AND THE TOP AND CURB FACES OF NEW BRUSH CURBS ASSOCIATED WITH THE JOINT REPLACEMENT.

APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION. APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW SECTIONS OF PARAPET AT THE JOINT REPLACEMENTS.

CLEAN AND APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACES OF THE BRUSH CURBS, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL".

PERFORM ALL PARAPET AND BRUSH CURB REPAIRS, SURFACE TREATMENT APPLICATIONS AND EXPANSION JOINT REPLACEMENT PRIOR TO INSTALLATION OF STEEL THRIE BEAM RAILING RETROFIT.

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

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- CURB REPAIR

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF BRUSH CURB WITHIN THE JOINT REPAIR LIMITS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1 1/2" CLEAR.

A MINIMUM OF 1/2-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 2 7/8". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-64-26".

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS AND PIERS 1 AND 3 UNDER THE BID ITEM "REMOVING BEARINGS B-64-26" AND REPLACE WITH LAMINATED ELASTOMERIC BEARINGS.

EXISTING FIXED BEARINGS AT PIER 2 TO BE CLEANED AND PAINTED.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CROSS FRAMES, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-26". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, FEDERAL COLOR NUMBER 25240.

REMOVE ALL VEGETATION FROM EXISTING CONCRETE SLOPE PAVING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-64-26".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

REMOVAL OF EXISTING DOWNSPOUT IN CONSIDERED INCIDENTAL TO "DOWNSPOUT 6-INCH".

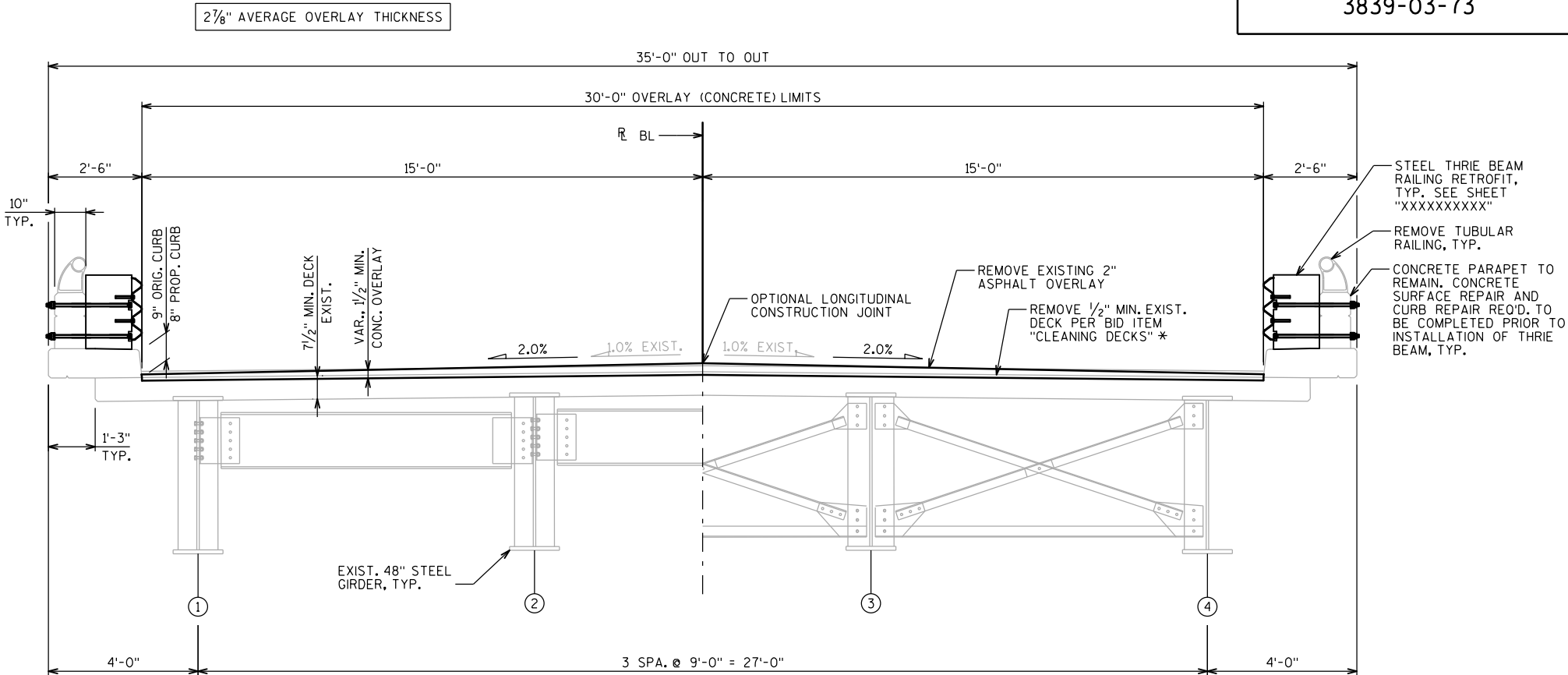
VERIFY DRAIN DOWNSPOUTS ARE NOT CLOGGED ONCE CONSTRUCTION COMPLETED. CLOGGED DOWNSPOUTS TO BE CLEANED OUT AND CONSIDERED INCIDENTAL TO "ADJUSTING FLOOR DRAINS".

EXISTING FLOOR DRAINS TO REMAIN IN PLACE. REMOVE TOP OF DECK IN DRAIN AREA AS DIRECTED BY THE FIELD ENGINEER TO ALLOW PLACING AND SLOPING OF 1 1/2" CONCRETE OVERLAY.

<PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND ON-DECK WORK.>

STATE PROJECT NUMBER

3839-03-73



DIAPHRAGM AT ABUTMENTS

TYPICAL CROSS FRAMING

TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

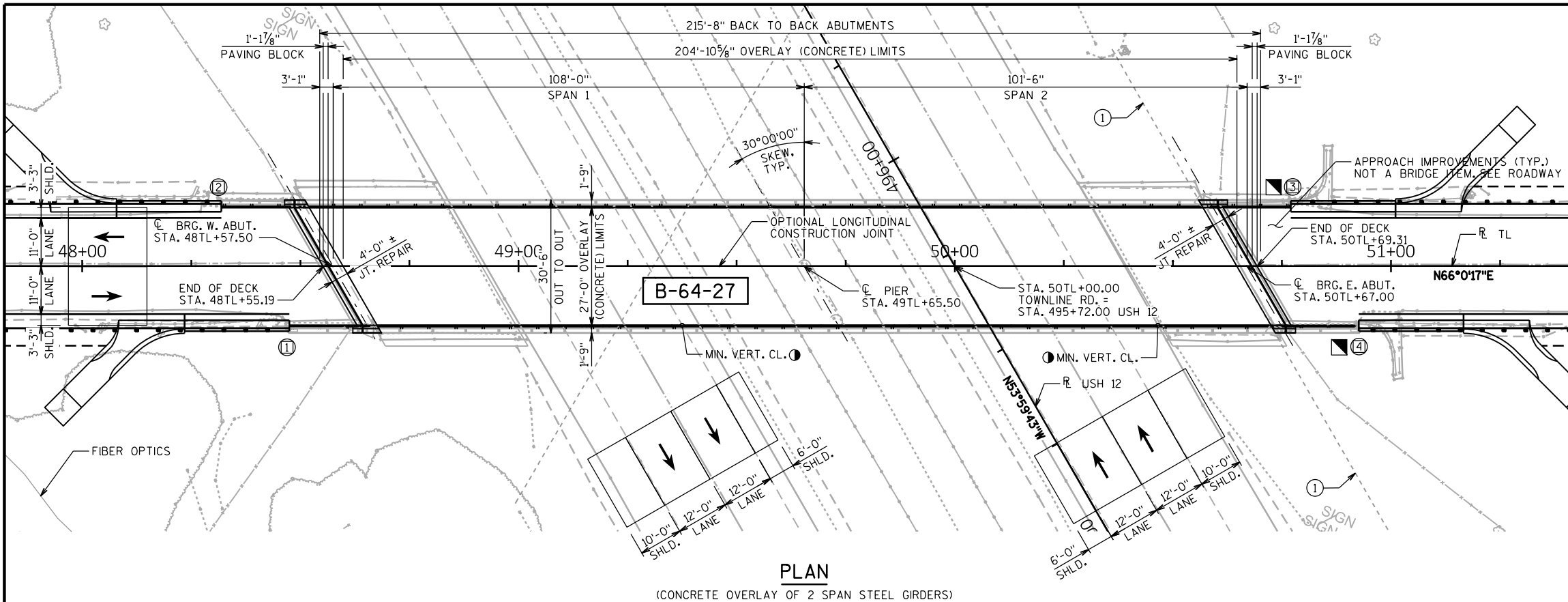
ITEM NO.	BID ITEM	UNIT	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-64-26	LS	
203.0225.S.XX	DEBRIS CONTAINMENT B-64-26	LS	
502.3100.XX	EXPANSION DEVICE B-64-26	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	
502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-26	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
* 509.0500	CLEANING DECKS	SY	
509.1000	JOINT REPAIR	SY	
509.1200	CURB REPAIR	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9010.S.XX	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-64-26	SY	
509.9050.S	CLEANING PARAPETS	LF	
514.0900	ADJUSTING FLOOR DRAINS	EACH	
514.2625	DOWNSPOUT 6-INCH	LF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-26	LS	
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-26	LS	
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0060.XX	CLEAN DECK DRAINS	EACH	
SPV.0090.XX	STEEL THRIE BEAM RAILING RETROFIT	LF	
SPV.0105.XX	VEGETATION REMOVAL B-64-26	LS	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

* REMOVE ONLY 1/2" OF EXISTING DECK, NOT 1" PER THE STANDARD SPECIFICATIONS

PRELIMINARY PLANS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-26			
		DRAWN BY HDA	PLANS CK'D. EAJ
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE			122



STATE PROJECT NUMBER

3839-03-73

LIST OF DRAWINGS

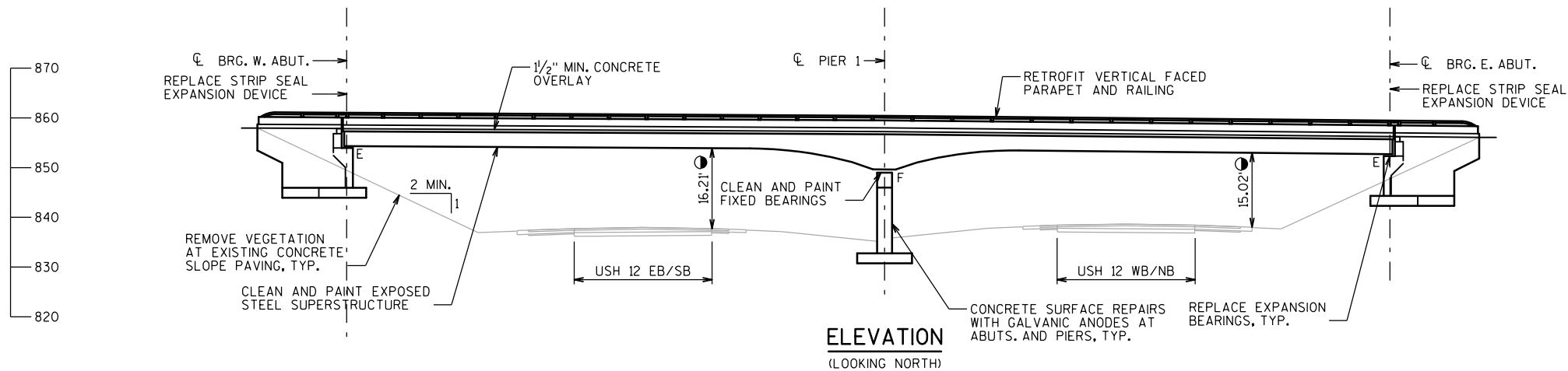
1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

LEGEND

- TRAFFIC DIRECTION
- CLEARANCE LOCATION AND MIN. DIMENSION FROM 11-30-2017 SURVEY
- ⊗ WING NUMBER
- ▣ LOCATION OF SURFACE DRAIN ANCORS
- ▲ ADT VALUES TAKEN FROM HSI SYSTEM 9-27-2018

STORM SEWER NOTES

- ① EXISTING DRAINAGE PIPE TO REMAIN



STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

TRAFFIC DATA

TOWNLIN RD. ▲
EXISTING A.D.T. = 6,400 (2015)
FUTURE A.D.T. = 9,230 (2023)
R.D.S. = 50 M.P.H.

USH 12

EXISTING A.D.T. = 13,600 (2015)
FUTURE A.D.T. = 17,200 (2040)
R.D.S. = 70 M.P.H.

DESIGN DATA

LIVE LOAD

INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ DATE _____ CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-27			
TOWNLIN RD. OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 2
PRE_123			

PRELIMINARY PLANS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

REMOVAL OF THE BRUSH CURB AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY, THE TOP OF ANY NEW DECK, THE TOPS OF PAVING BLOCKS, AND THE TOP AND CURB FACES OF NEW BRUSH CURBS ASSOCIATED WITH THE JOINT REPLACEMENT.

APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION. APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW SECTIONS OF PARAPET AT THE JOINT REPLACEMENT(S).

CLEAN AND APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACES OF THE BRUSH CURBS, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL".

PERFORM ALL PARAPET AND BRUSH CURB REPAIRS, SURFACE TREATMENT APPLICATIONS AND EXPANSION JOINT REPLACEMENT PRIOR TO INSTALLATION OF STEEL THRIE BEAM RAILING RETROFIT.

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

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.
- CURB REPAIR

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF BRUSH CURB WITHIN THE JOINT REPAIR LIMITS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO.5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1 1/2" CLEAR.

A MINIMUM OF 1/2-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 2 3/4". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-64-27".

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS UNDER THE BID ITEM "REMOVING BEARINGS B-64-27" AND REPLACE WITH LAMINATED ELASTOMERIC BEARINGS.

EXISTING FIXED BEARINGS AT THE PIER TO BE CLEANED AND PAINTED.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CROSS FRAMES, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-27". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, FEDERAL COLOR NUMBER 25240.

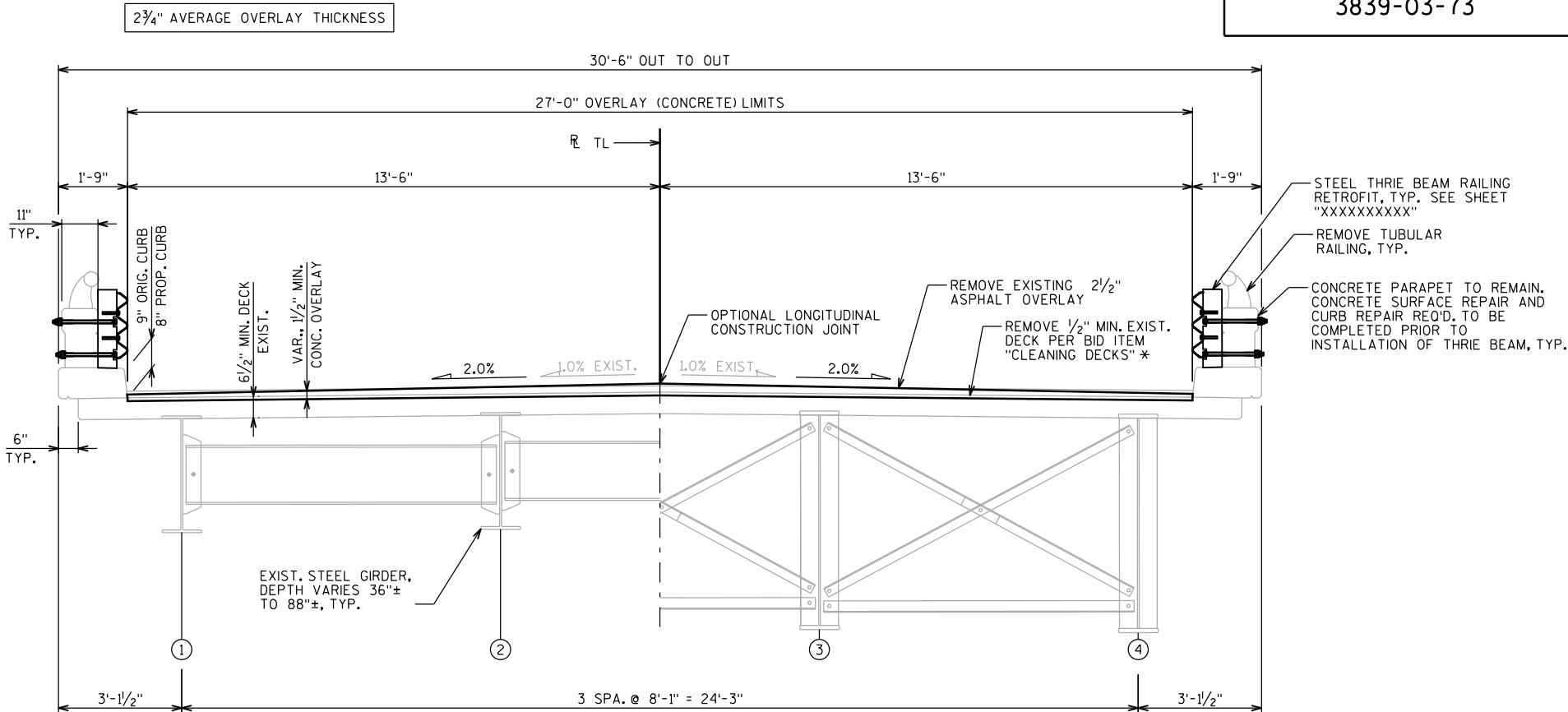
REMOVE ALL VEGETATION FROM EXISTING CONCRETE SLOPE PAVING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-64-27".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

<PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND ON-DECK WORK.>

STATE PROJECT NUMBER

3839-03-73



TYPICAL

CROSS FRAMING AT PIER

TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-64-27	LS	
203.0225.S.XX	DEBRIS CONTAINMENT B-64-27	LS	
502.3100.XX	EXPANSION DEVICE B-64-27	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-27	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
* 509.0500	CLEANING DECKS	SY	
509.1000	JOINT REPAIR	SY	
509.1200	CURB REPAIR	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9010.S.XX	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-64-27	SY	
509.9050.S	CLEANING PARAPETS	LF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-27	LS	
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-27	LS	
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0090.XX	STEEL THRIE BEAM RAILING RETROFIT	LF	
SPV.0105.XX	VEGETATION REMOVAL B-64-27	LS	
NON-BID ITEMS			

ALL ITEMS ARE CATEGORY XXXX

* REMOVE ONLY 1/2" OF EXISTING DECK, NOT 1" PER THE STANDARD SPECIFICATIONS

PRELIMINARY PLANS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-27			
		DRAWN BY HDA	PLANS CK'D. EAJ
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE			124

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

 TRAFFIC DIRECTION
 CLEARANCE LOCATION FROM EXISTING PLANS
 WING NUMBER

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____			
STRUCTURE B-64-187			
USH 12 WB OVER STH 50			
COUNTY WALWORTH		VILLAGE LAKE GENEVA	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY HDA	DESIGN CK'D. XXX	DRAWN BY HDA	PLANS CK'D. X
GENERAL PLAN & ELEVATION		SHEET 1 OF 2	
		PRE 125	

PRELIMINARY PLANS

USH 12
EXISTING A.D.T. = 14,500 (2016)
FUTURE A.D.T. = 18,100 (2041)
R.D.S. = 70 M.P.H.

EXISTING A.D.T. = 13,800 (2015)
FUTURE A.D.T. = 23,300 (2034)
R.D.S. = 50 M.P.H.

INVENTORY RATING: RF = X.XX
OPERATING RATING: RF = X.XX
MAXIMUM STANDARD PERMIT VEHICLE LOAD = XXX KIPS

PLAN

(POLYMER OVERLAY OF 2-SPAN 54W" GIRDERS)

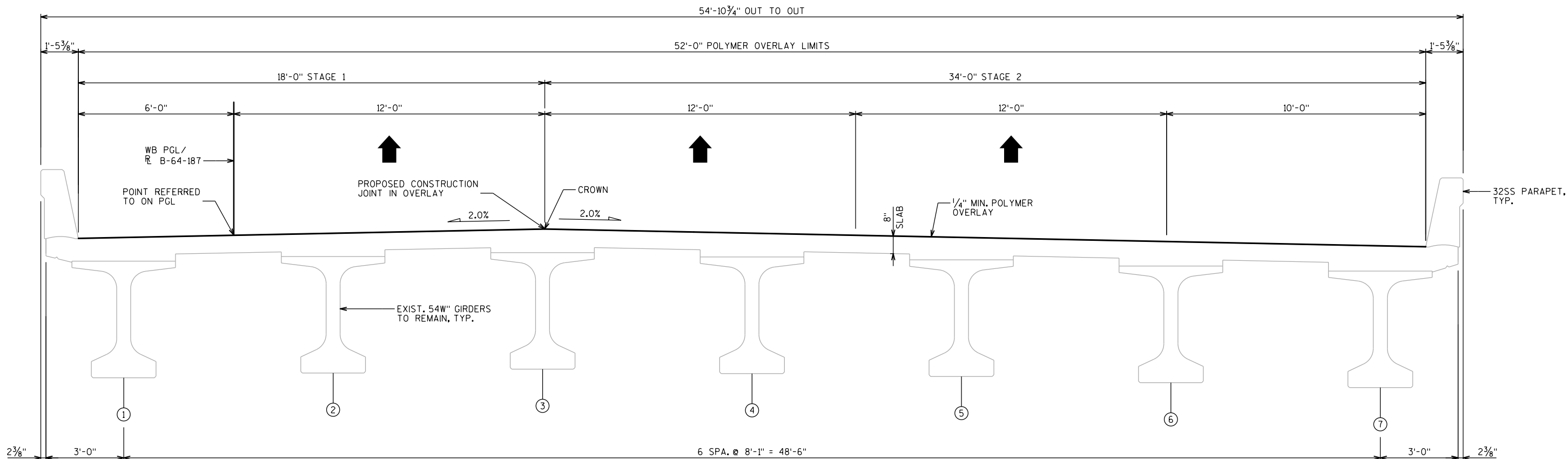
FILE NAME : \\milw00\ingrpro\68977\b1\B-64-187\cds\B187-080101-gp.dgn

PLOT DATE : 6/30/2019 1:16:34 PM

PLOT BY : crkasten

PLOT NAME : \$FILE\$

PLOT SCALE : 30:1



TYPICAL SECTION
(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

STRUCTURE STAGES DO NOT CORRESPOND TO ROADWAY STAGES. SEE ROADWAY PLANS FOR COMPLETE STAGING INFORMATION.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	X
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-187			
DRAWN BY		HDA	PLANS CK'D. XXX
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE_126			

PRELIMINARY PLANS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

 TRAFFIC DIRECTION
 CLEARANCE LOCATION FROM EXISTING PLANS
 WING NUMBER

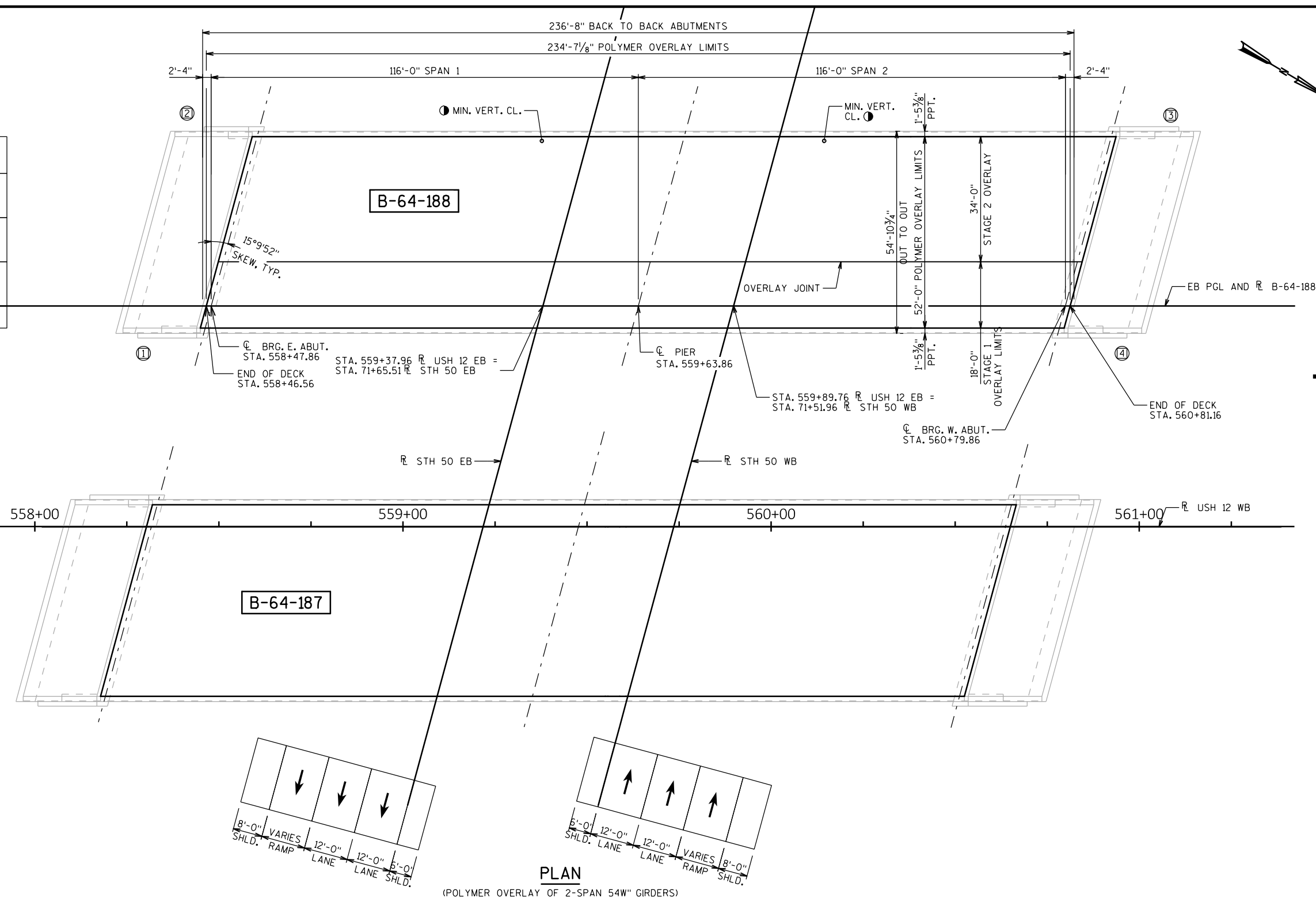
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-188			
USH 12 EB OVER STH 50			
COUNTY	WALWORTH	VILLAGE	LAKE GENEVE
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	XXX
DRAWN BY	HDA	CK'D.	XXX
GENERAL PLAN & ELEVATION		SHEET 1 OF 2	
PRE		127	

Diagram illustrating the proposed 40-foot wide road layout. The road is divided into sections with the following dimensions and features:

- 6'-0" SHLD.
- 12'-0" LANE
- 12'-0" LANE
- 12'-0" LANE
- 10'-0" SHLD.

Arrows indicate traffic flow from right to left in the three lanes.

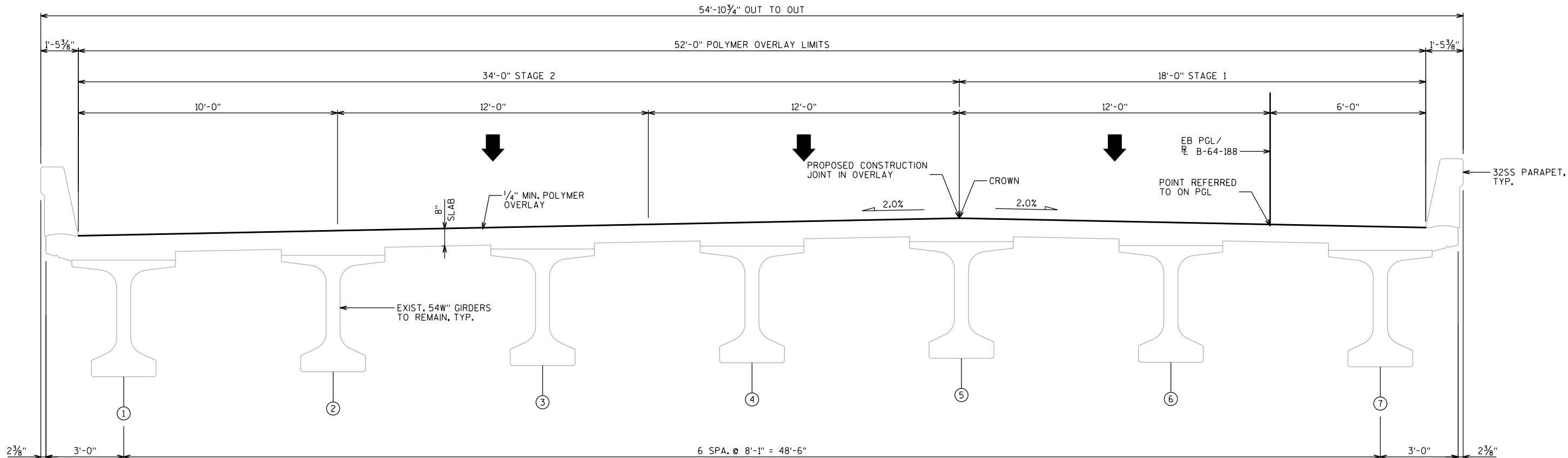


USH 12
EXISTING A.D.T. = 14,500 (2016)
FUTURE A.D.T. = 18,100 (2041)
R.D.S. = 70 M.P.H.

EXISTING A.D.T. = 13,800 (2015)
FUTURE A.D.T. = 23,300 (2034)
R.D.S. = 50 M.P.H.

INVENTORY RATING: RF = X.XX
OPERATING RATING: RF = X.XX
MAXIMUM STANDARD PERMIT VEHICLE LOAD = XXX KIPS

PRELIMINARY PLANS



TYPICAL SECTION
(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.
ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.
STRUCTURE STAGES DO NOT CORRESPOND TO ROADWAY STAGES. SEE ROADWAY PLANS FOR COMPLETE STAGING INFORMATION.

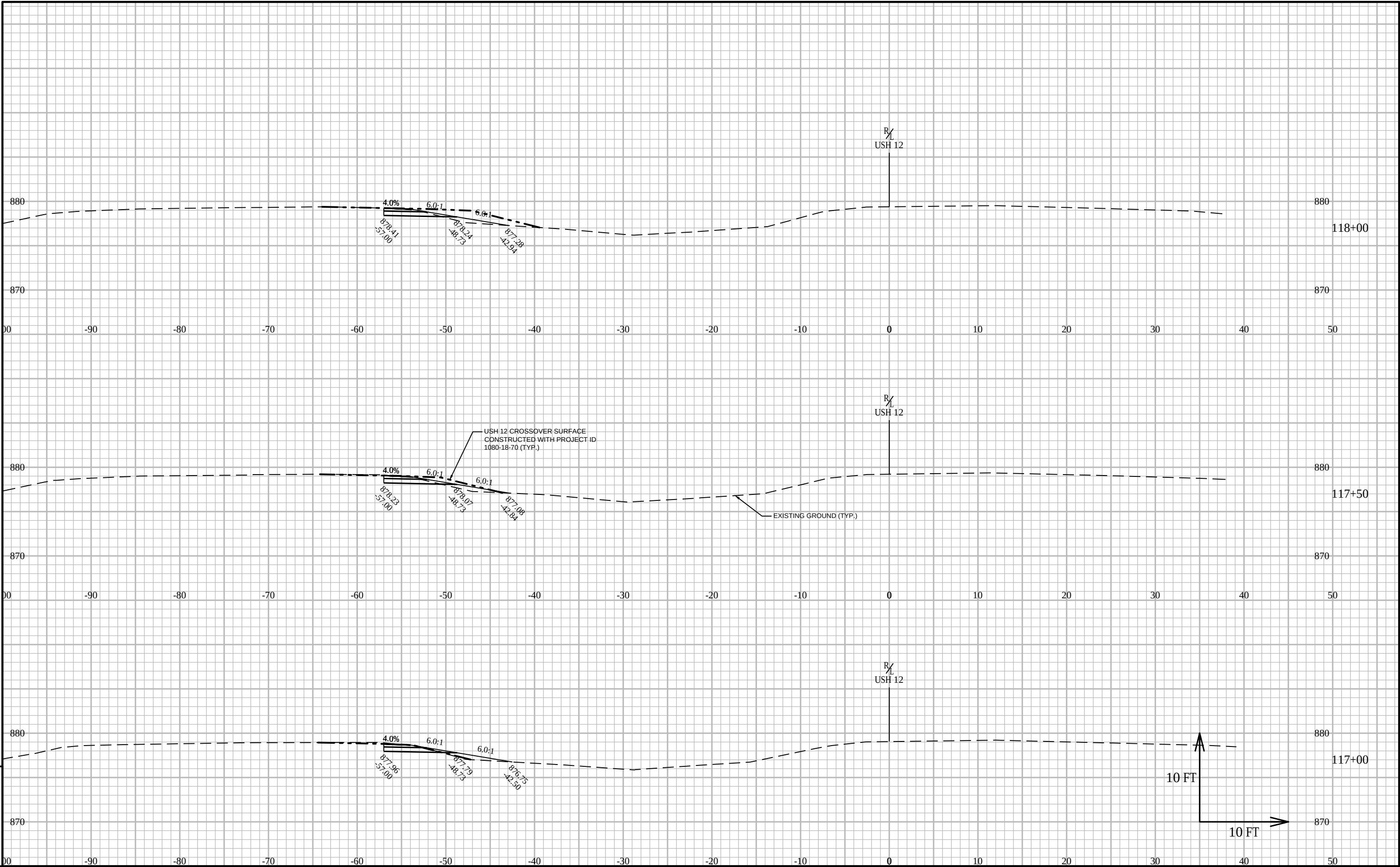
TOTAL ESTIMATED QUANTITIES

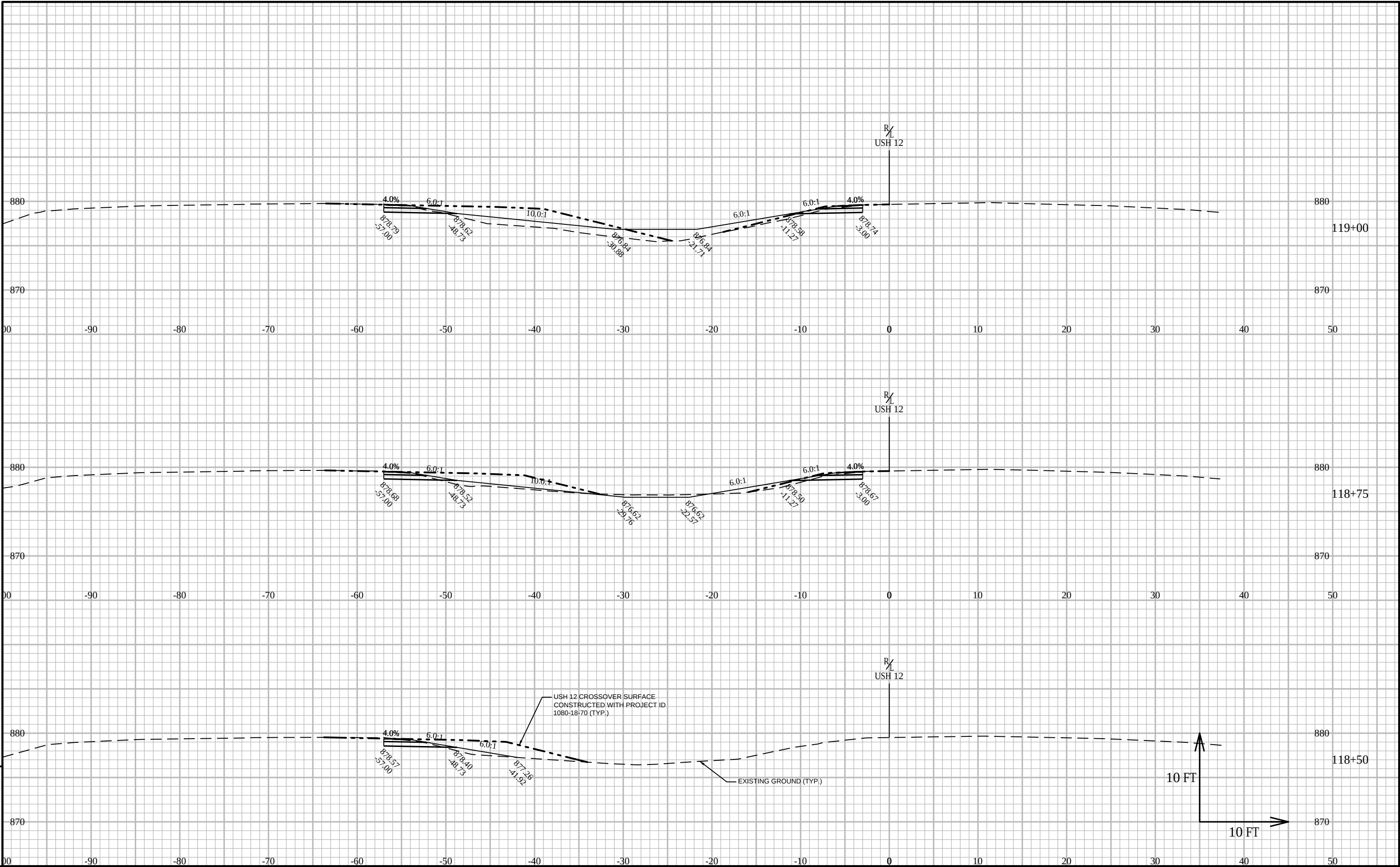
ITEM NO.	BID ITEM	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	X
	NON-BID ITEMS		

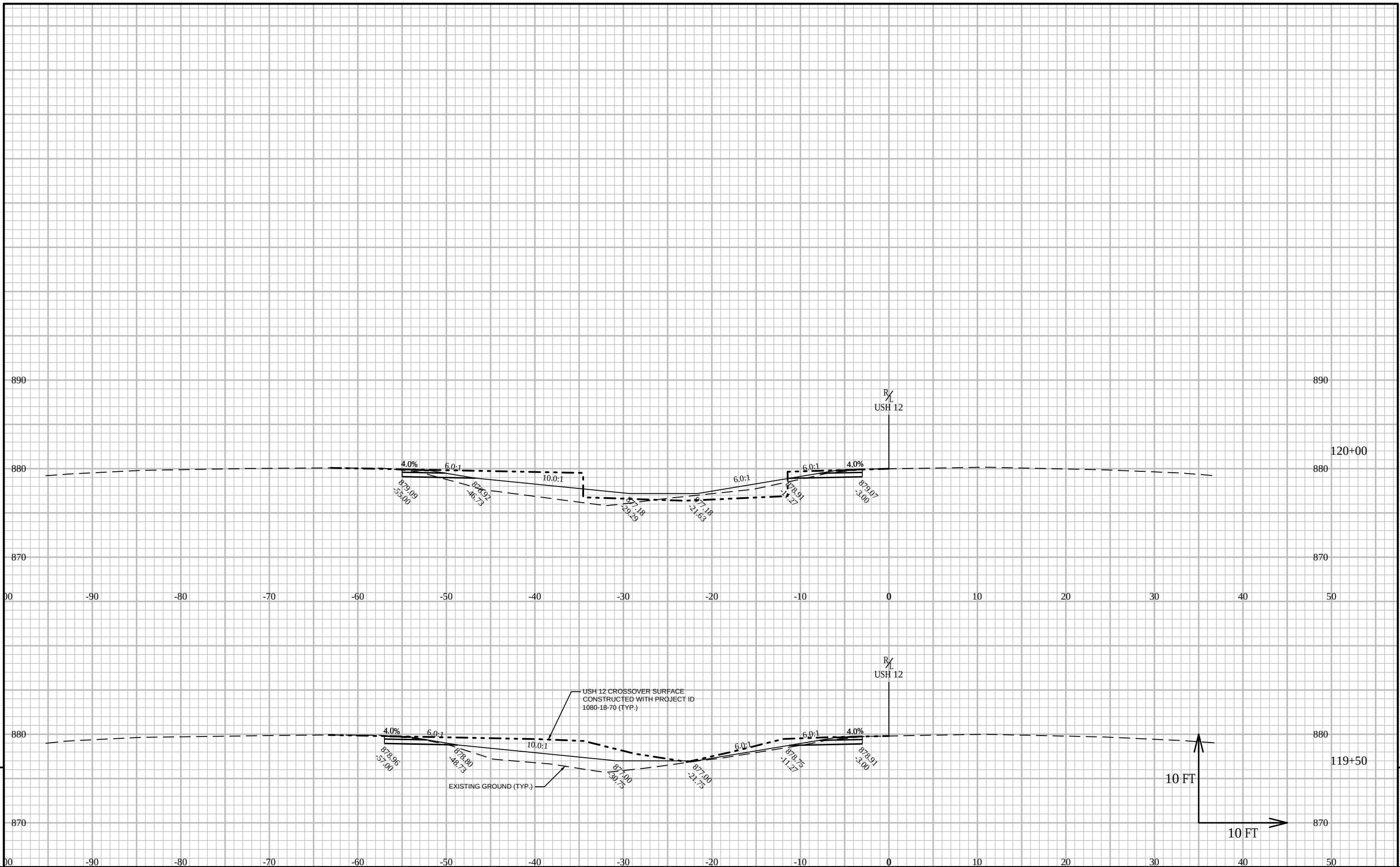
ALL ITEMS ARE CATEGORY XXXX

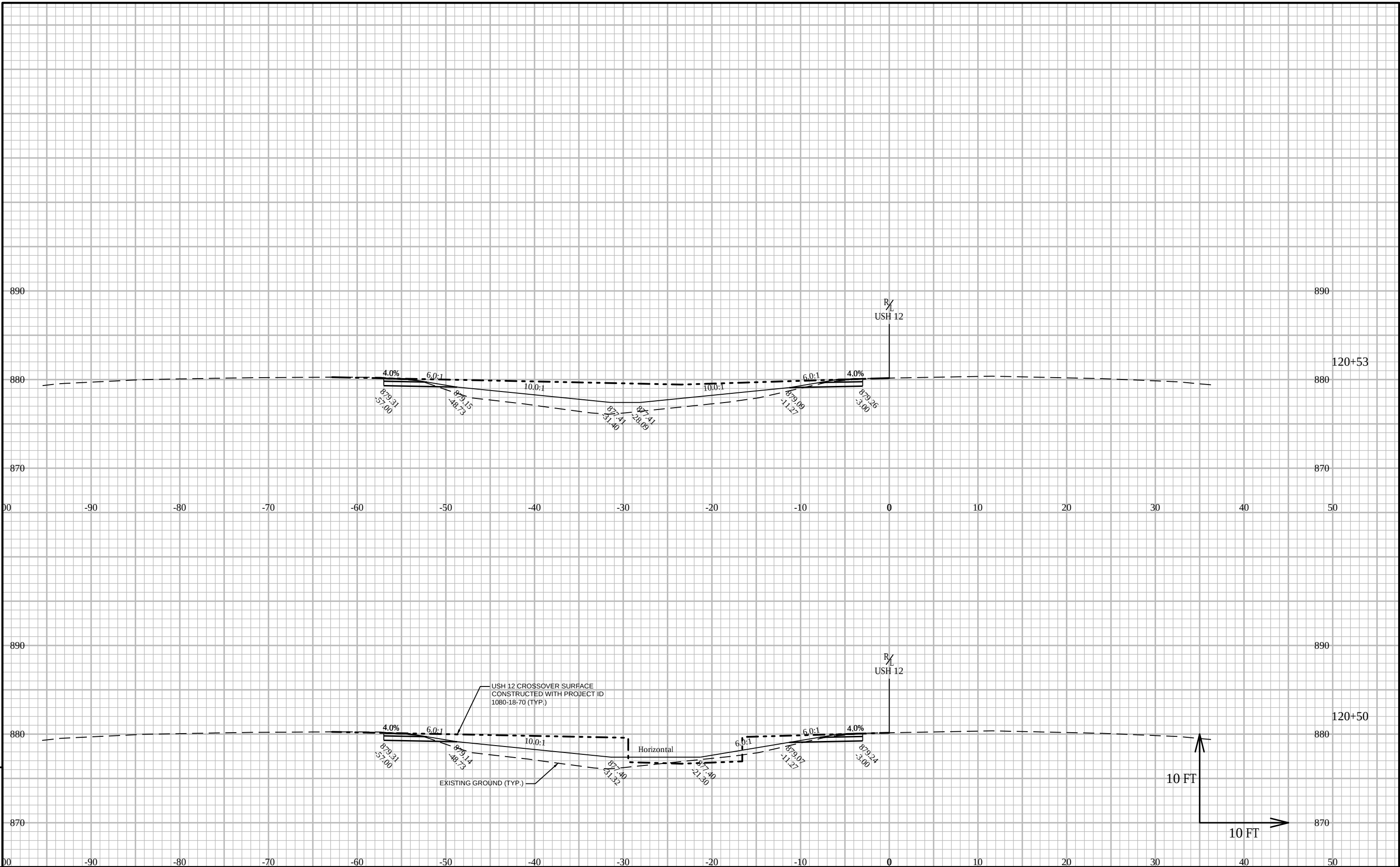
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-64-188			
DRAWN BY		HDA	PLANS CK'D. XXX
TYPICAL SECTION, GENERAL NOTES & QUANTITIES			SHEET 2 OF 2
PRE_128			

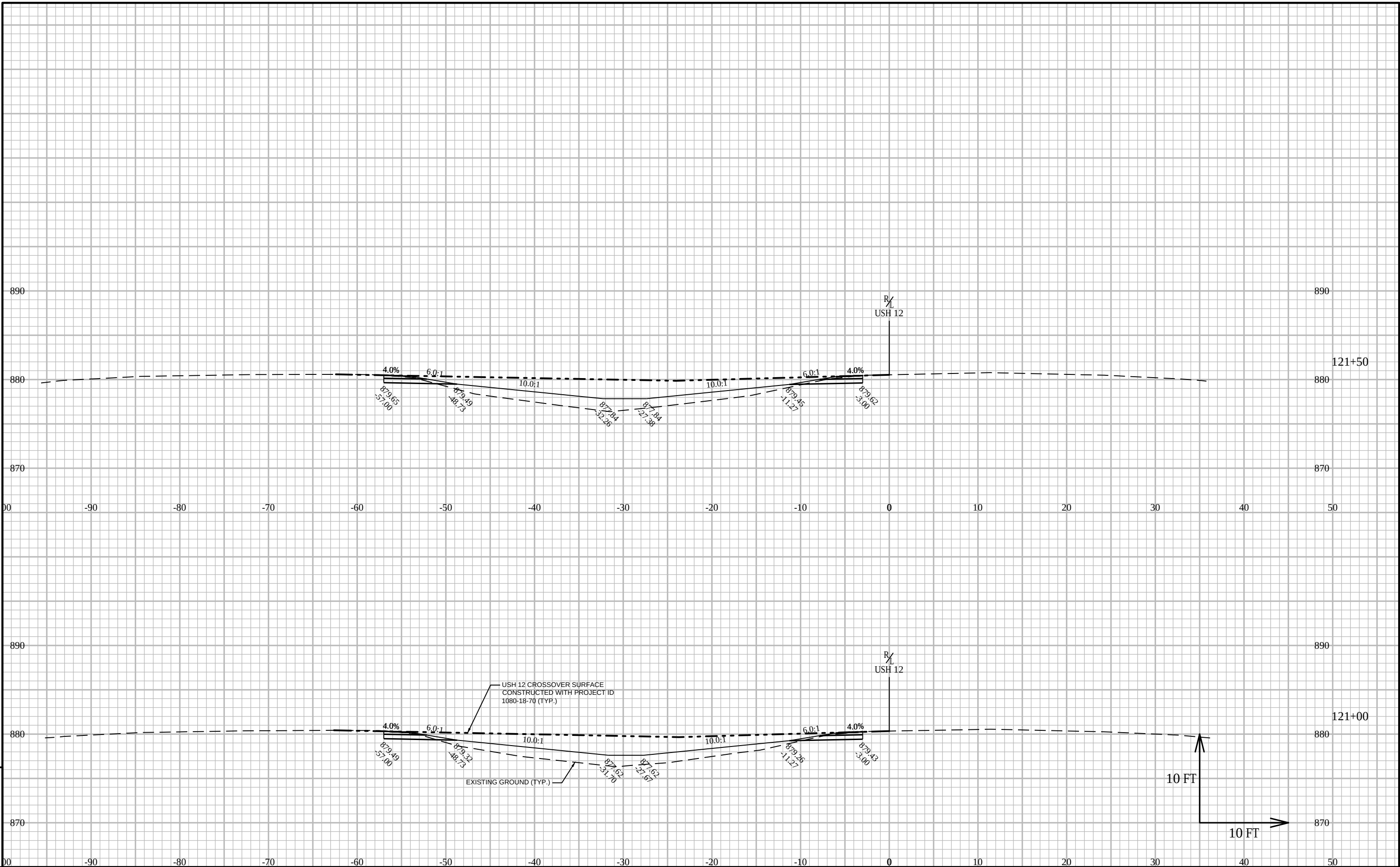
PRELIMINARY PLANS

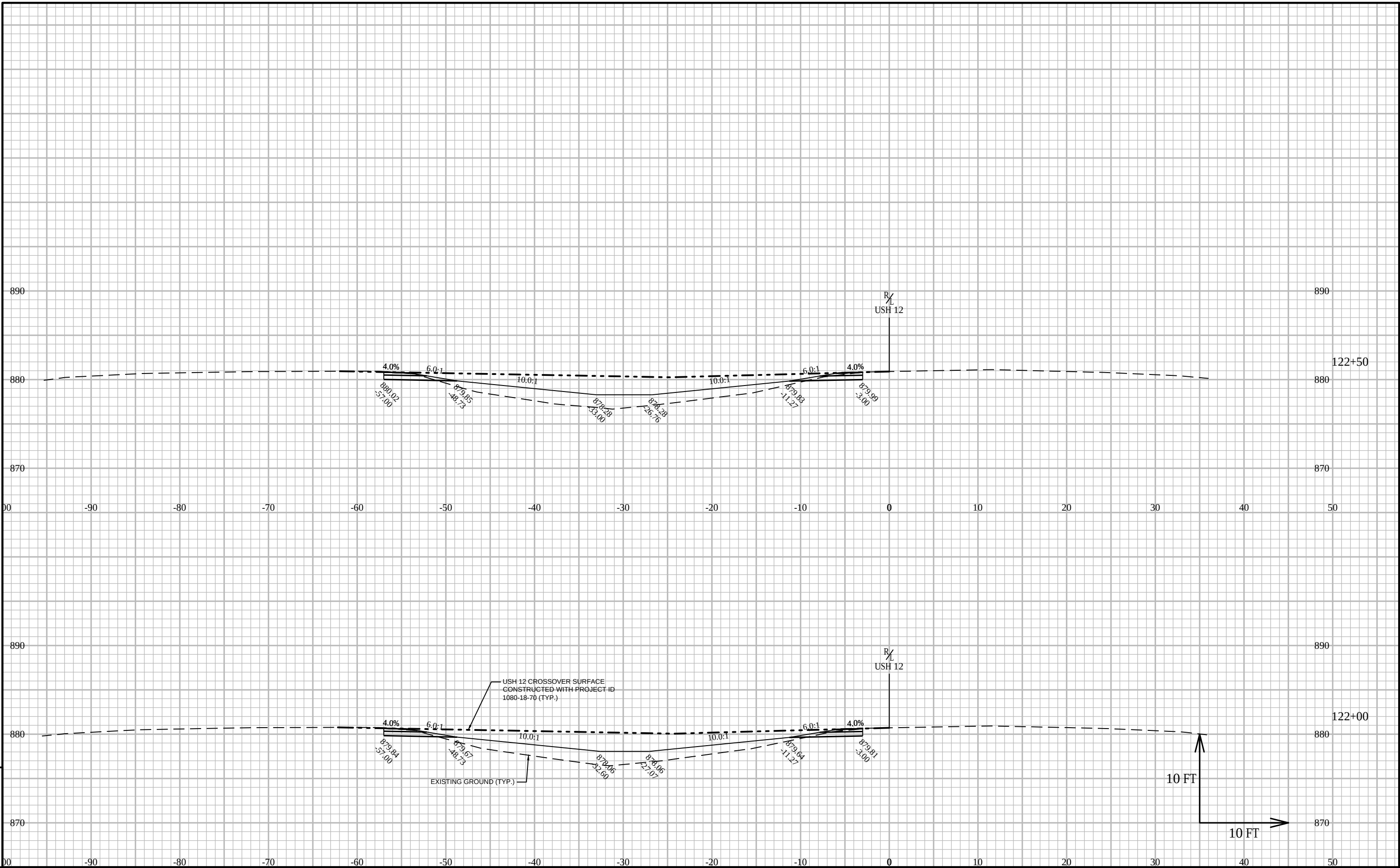


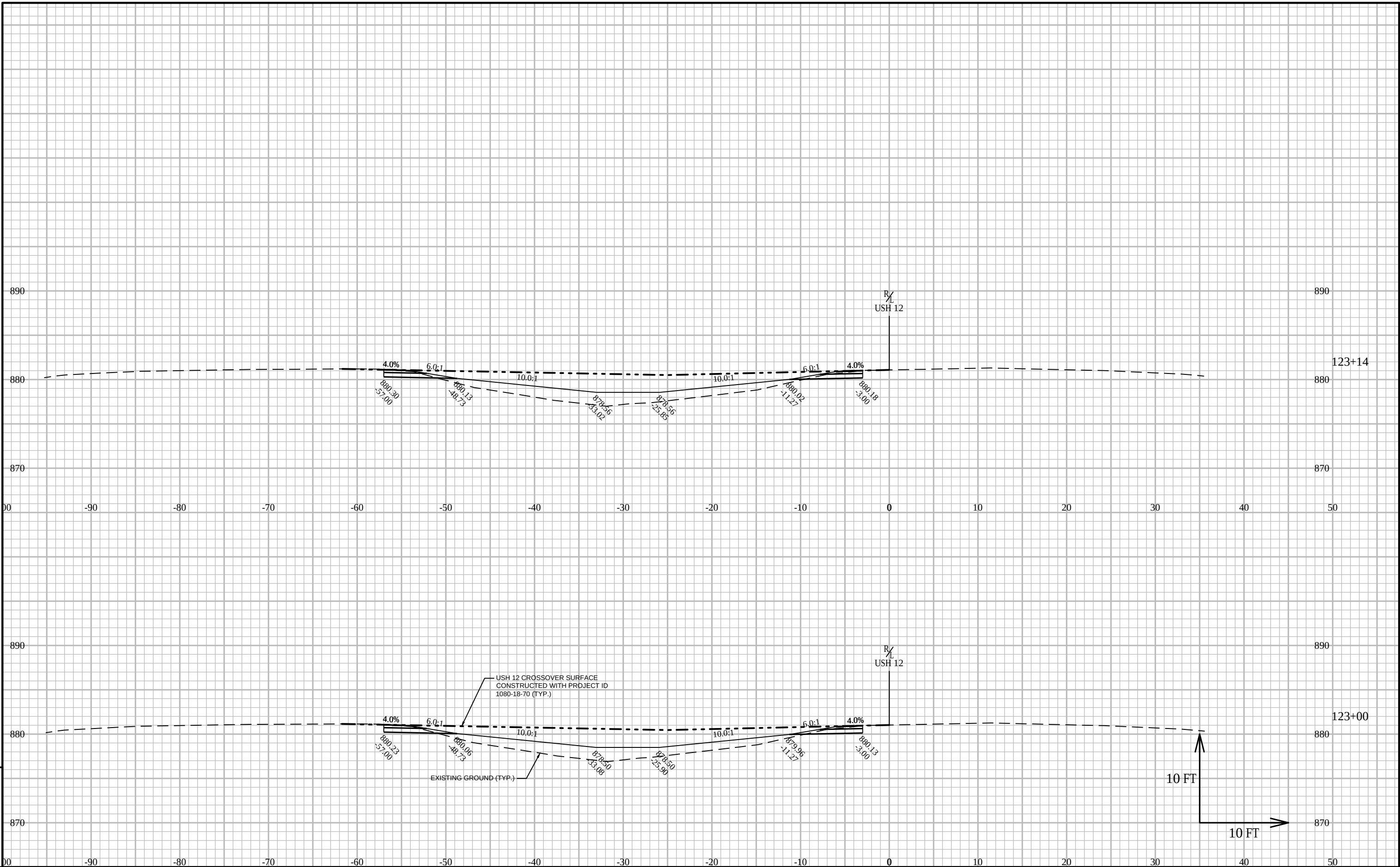




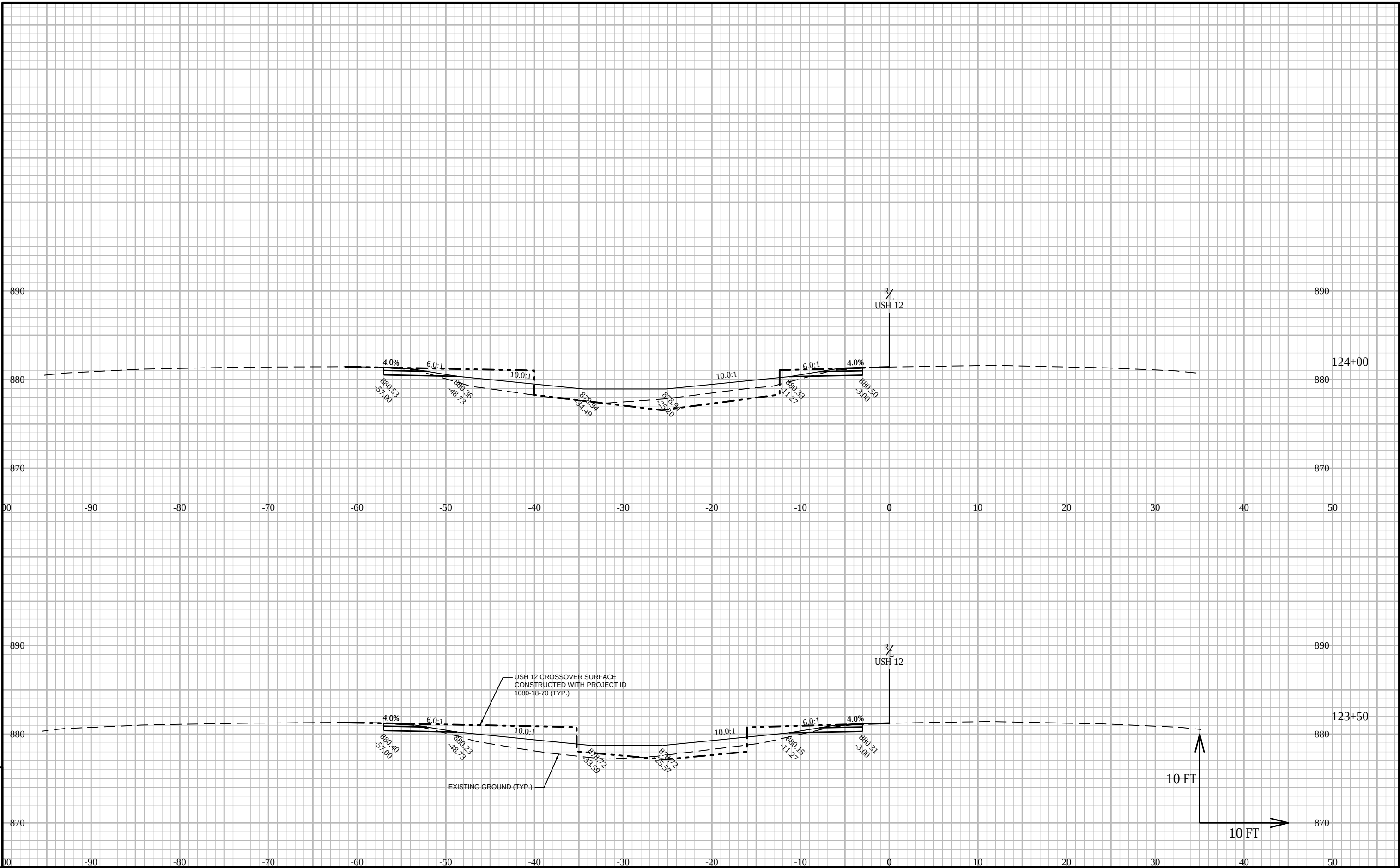


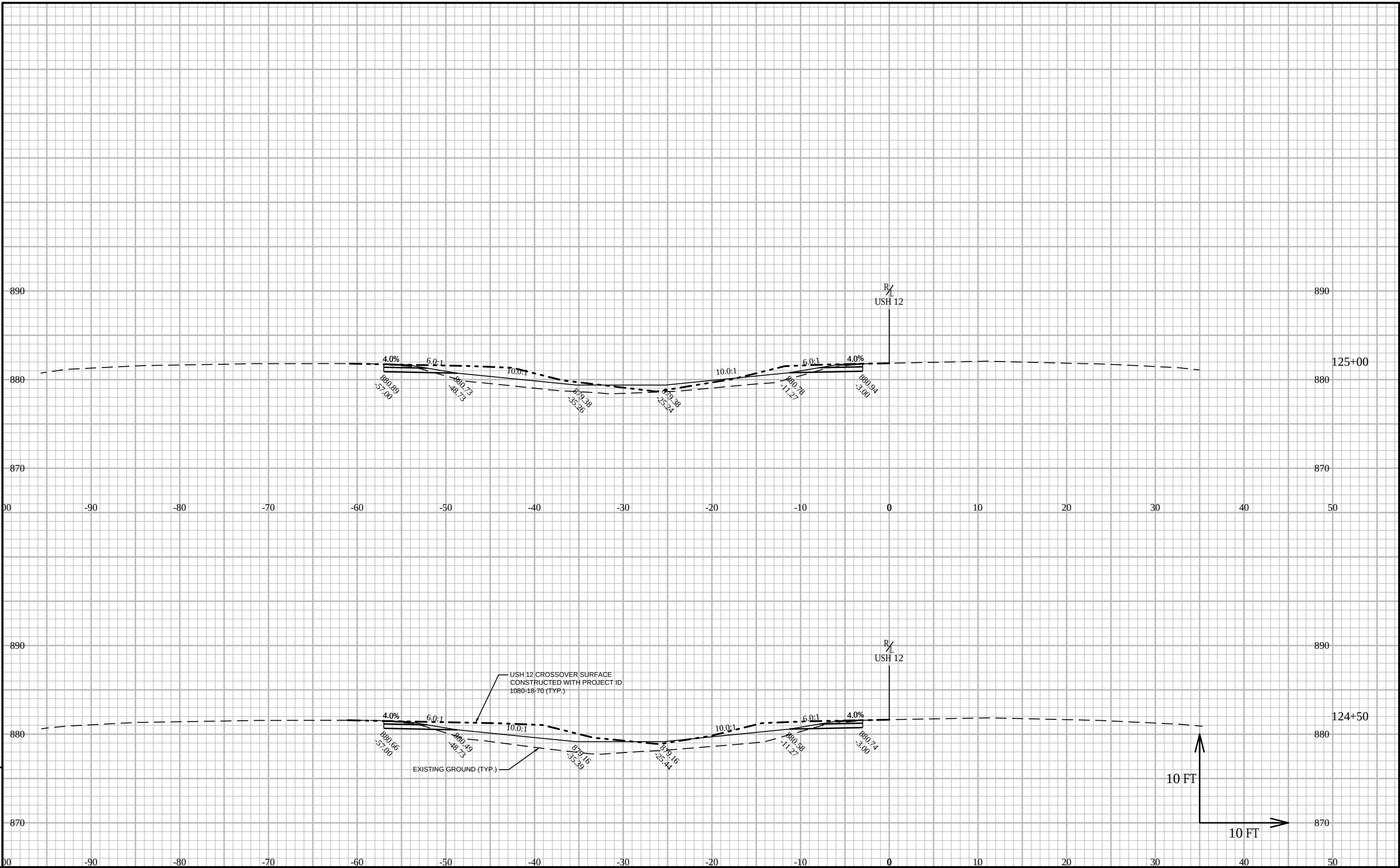


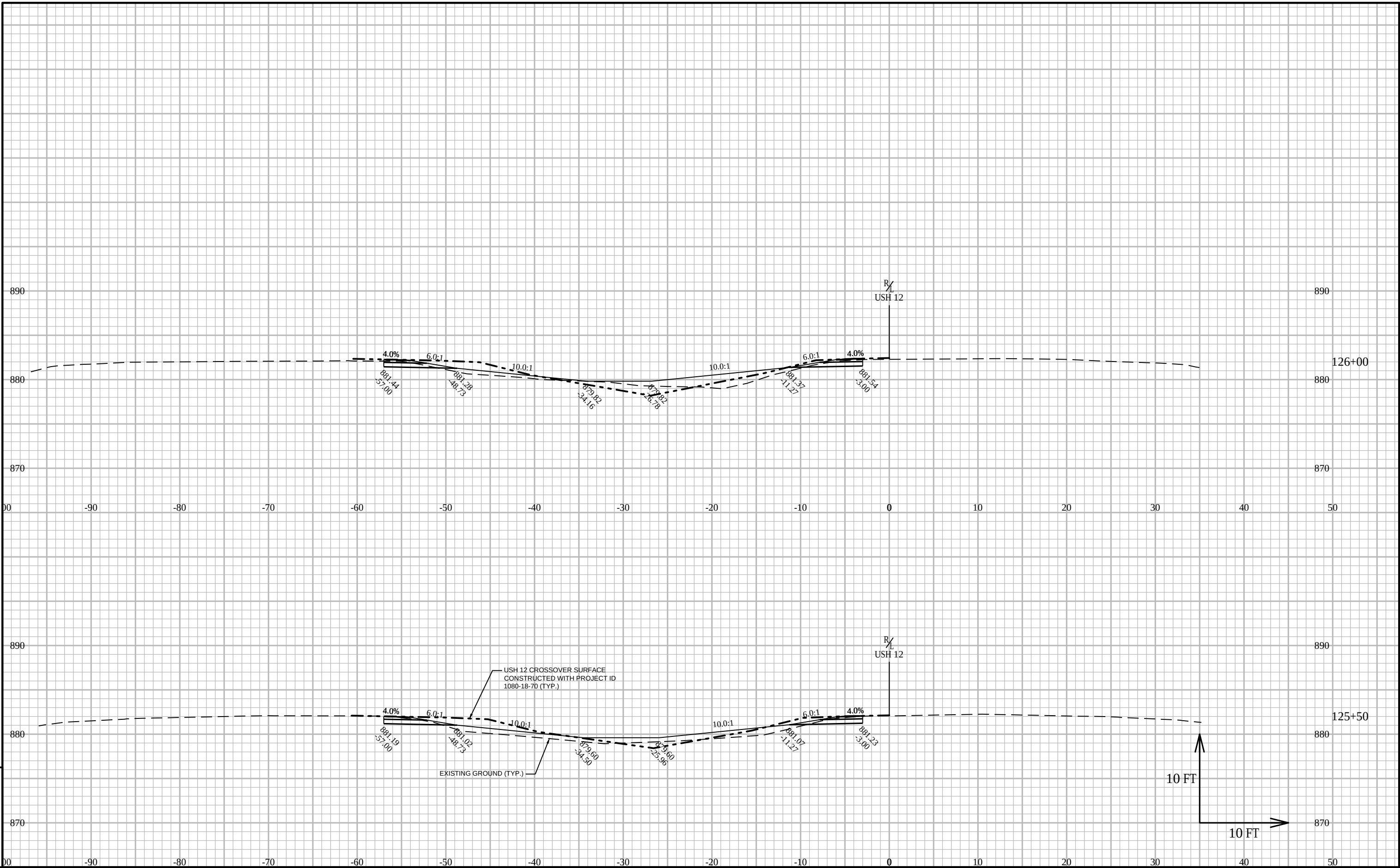


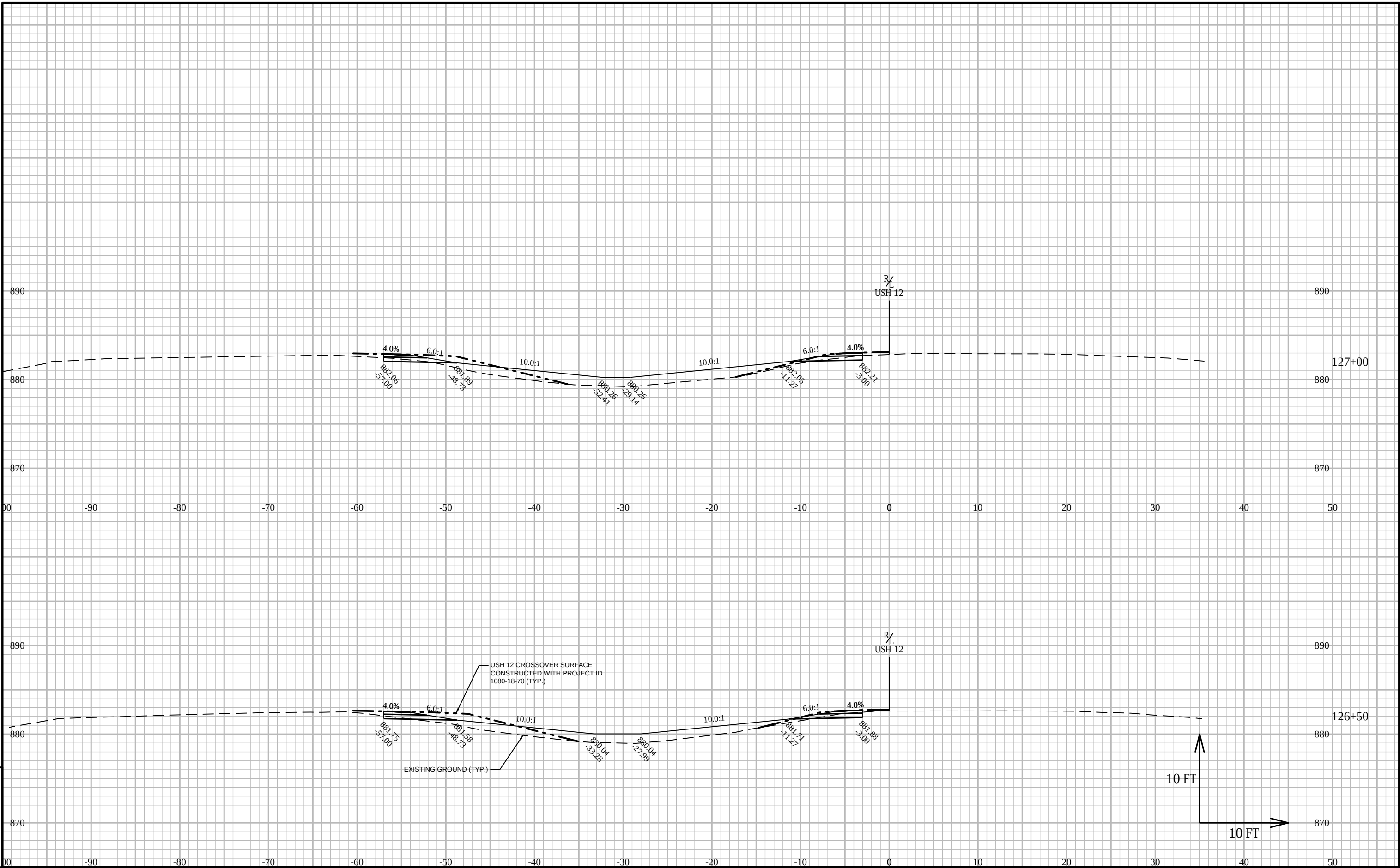


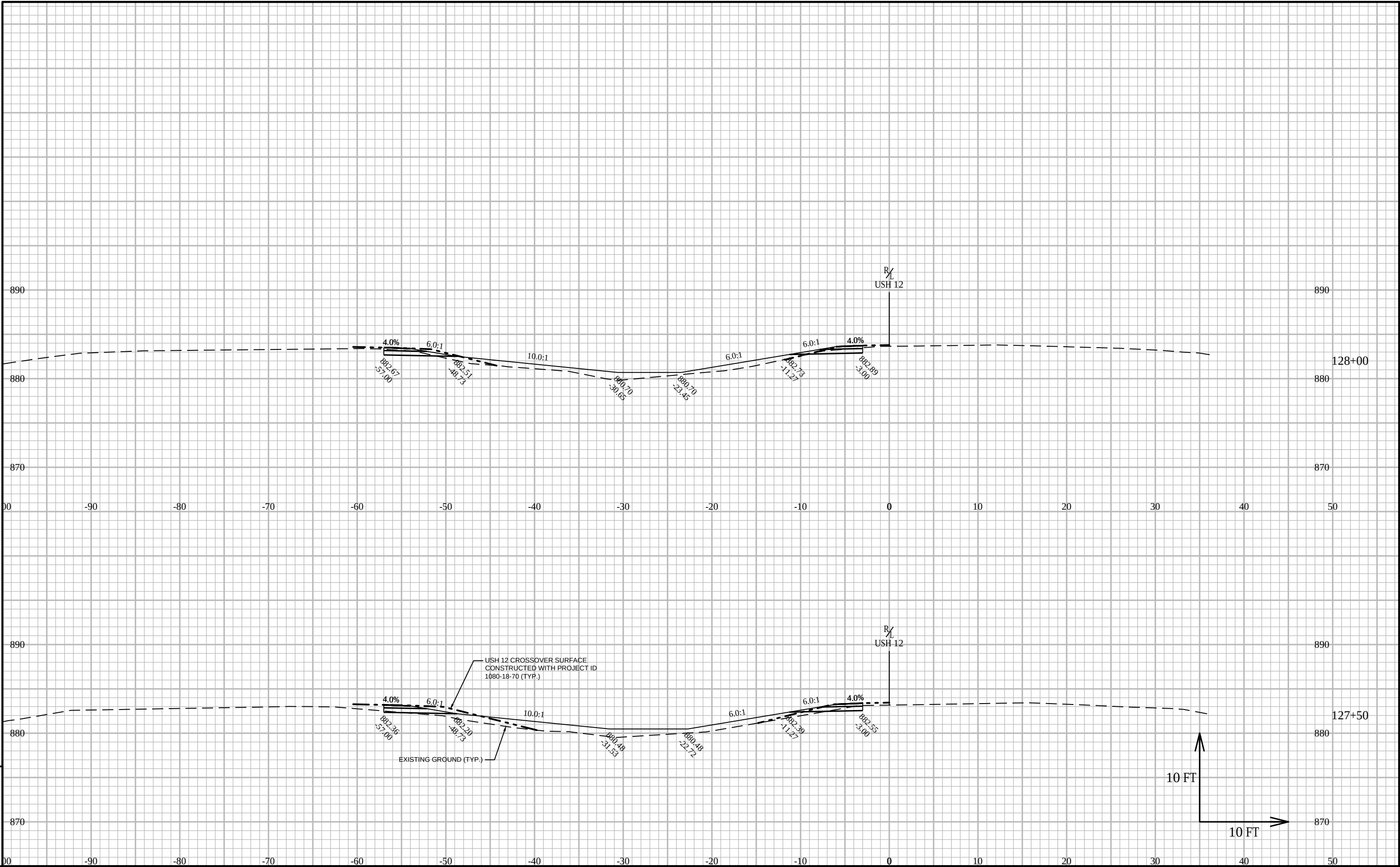
PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	USH 12 CROSSOVER REMOVAL	SHEET	PRE_135	E
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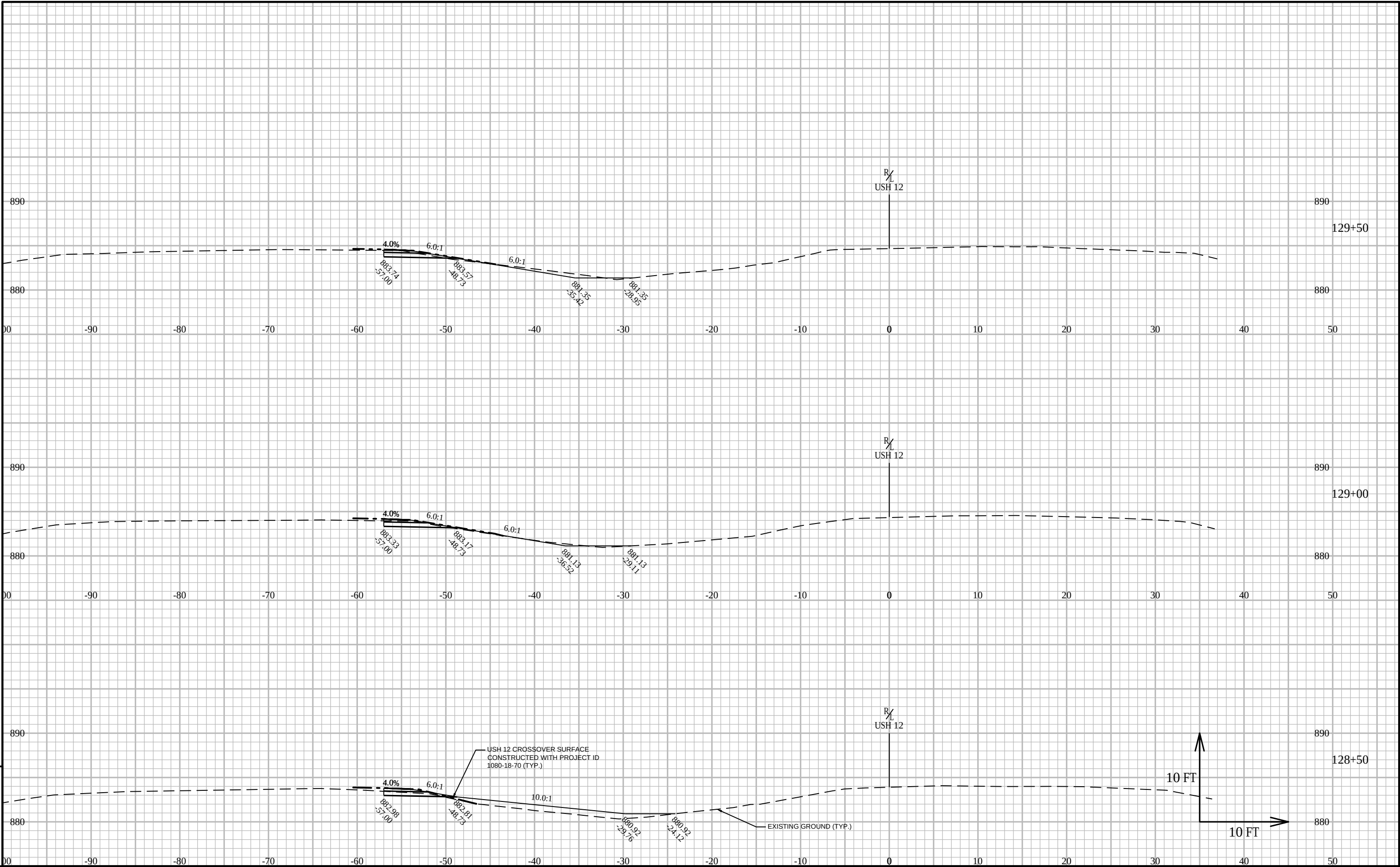


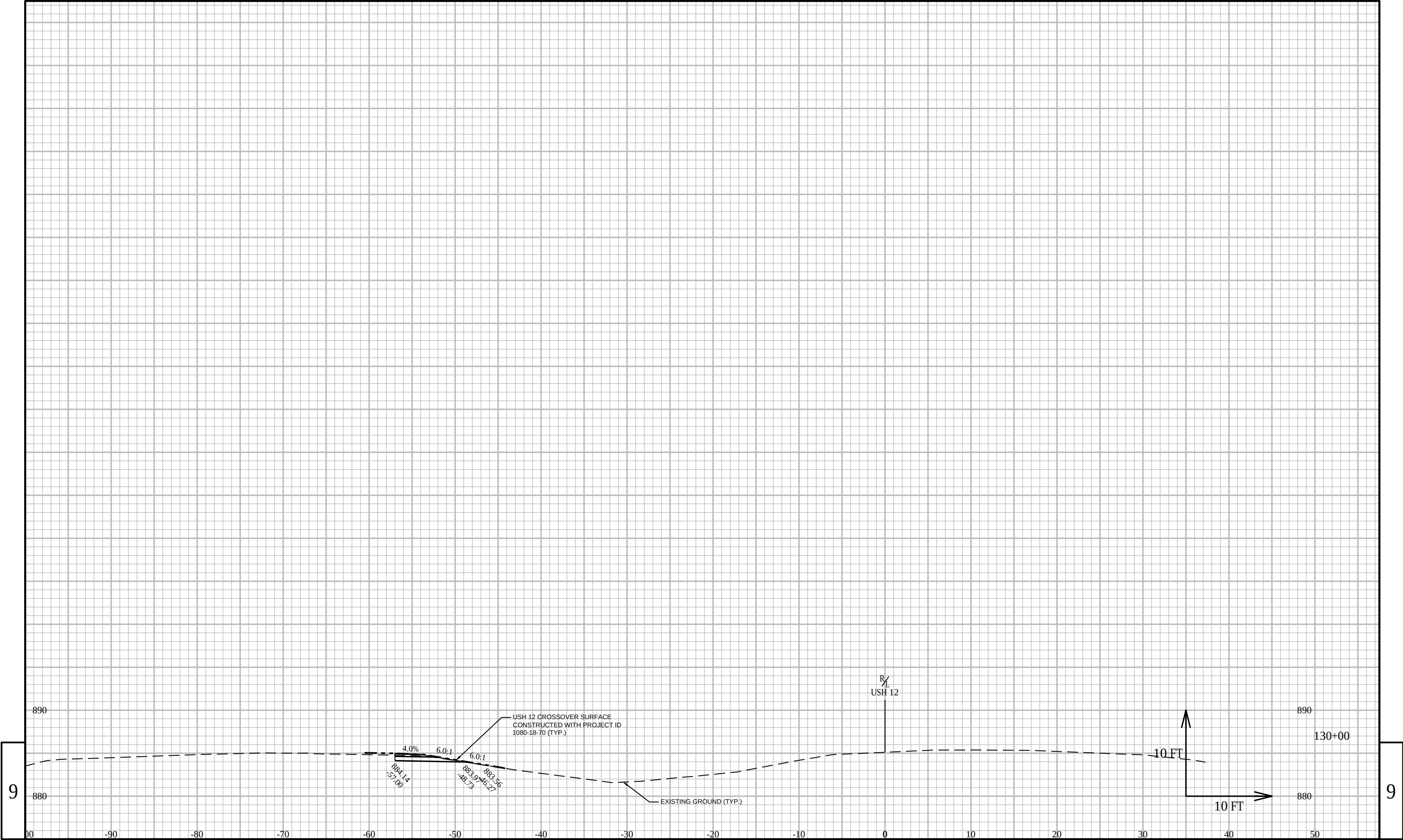




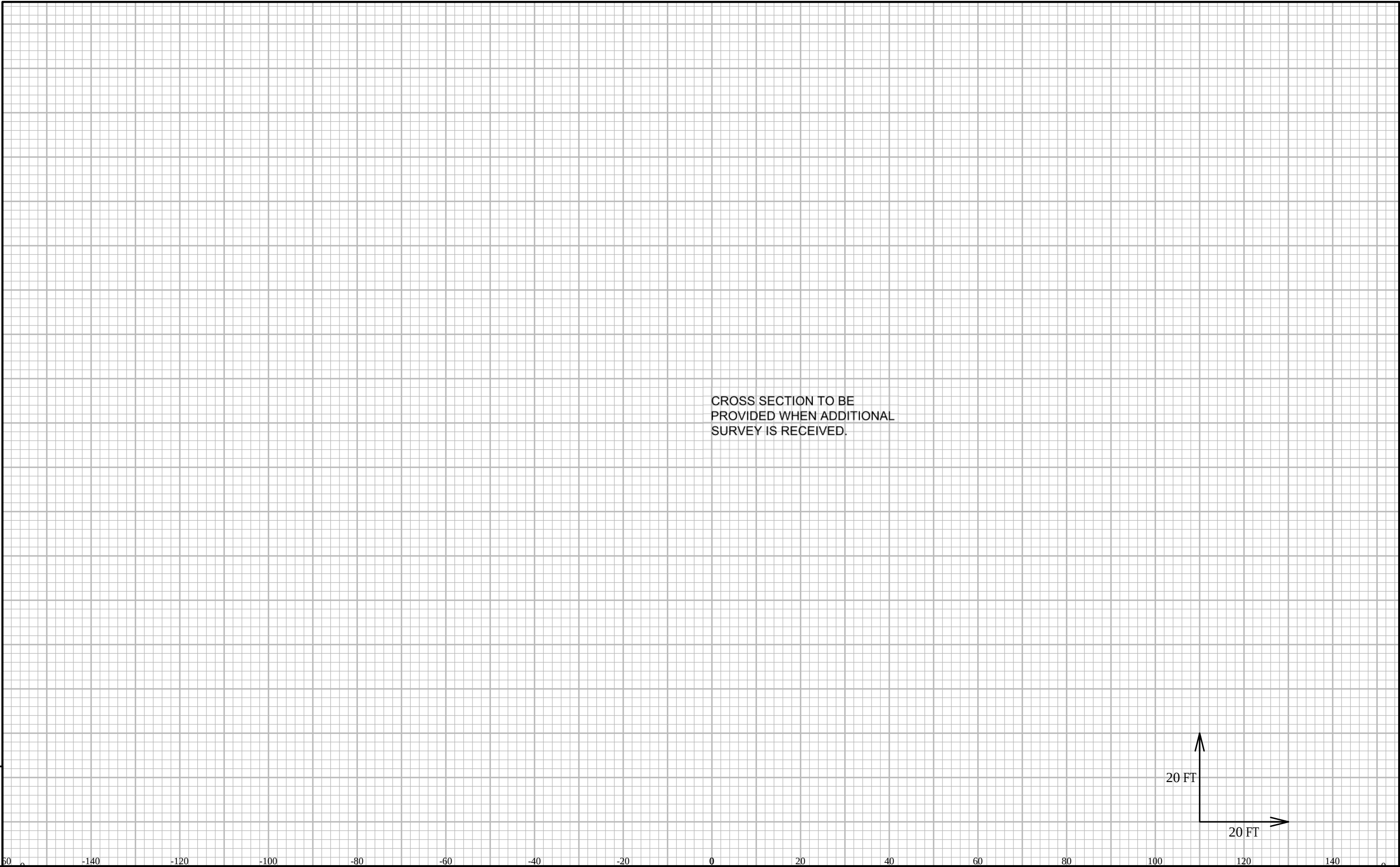


PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	USH 12 CROSSOVER REMOVAL	SHEET	PRE_140	E
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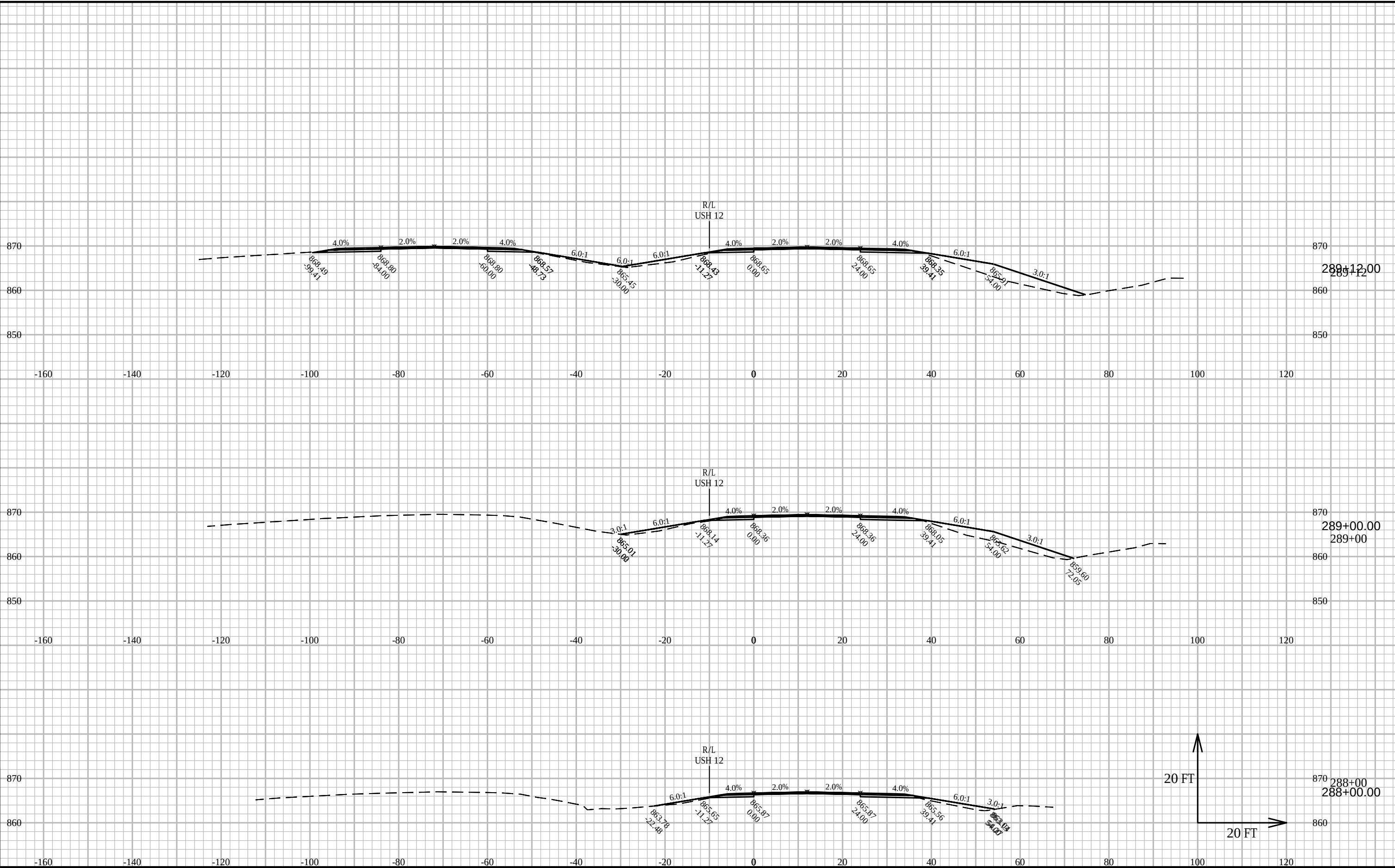
PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	USH 12 CROSSOVER REMOVAL	SHEET	PRE_142	E
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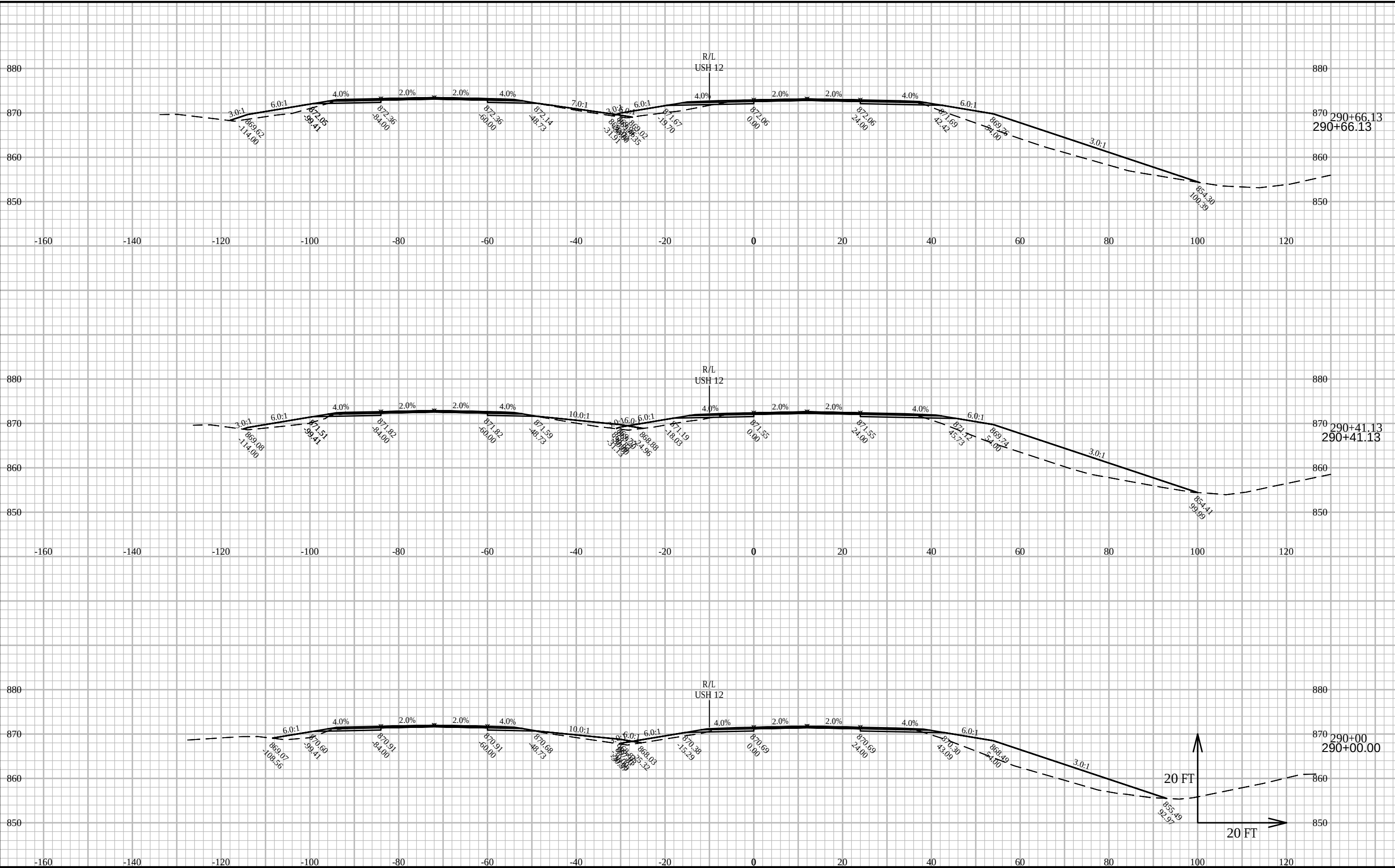


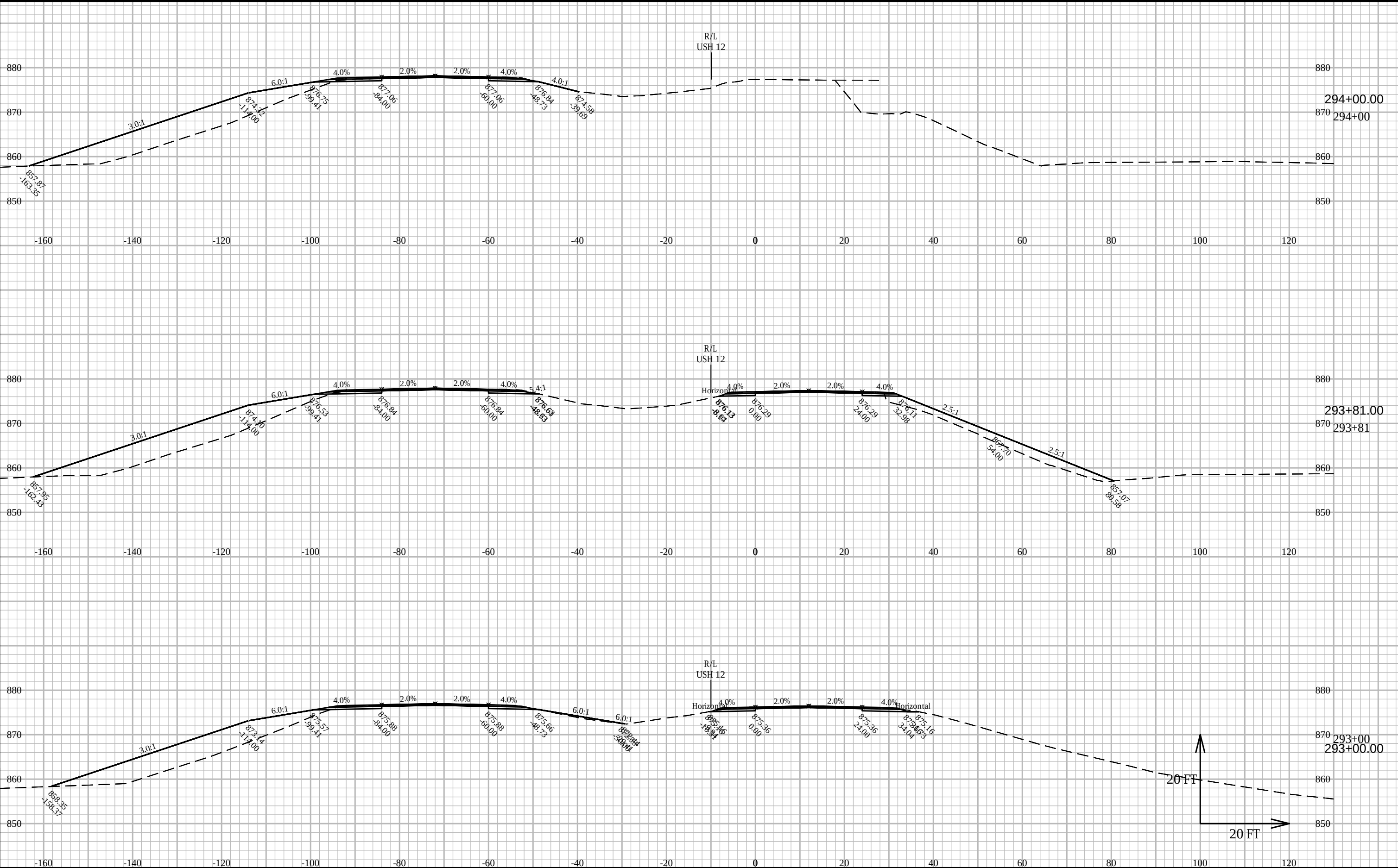
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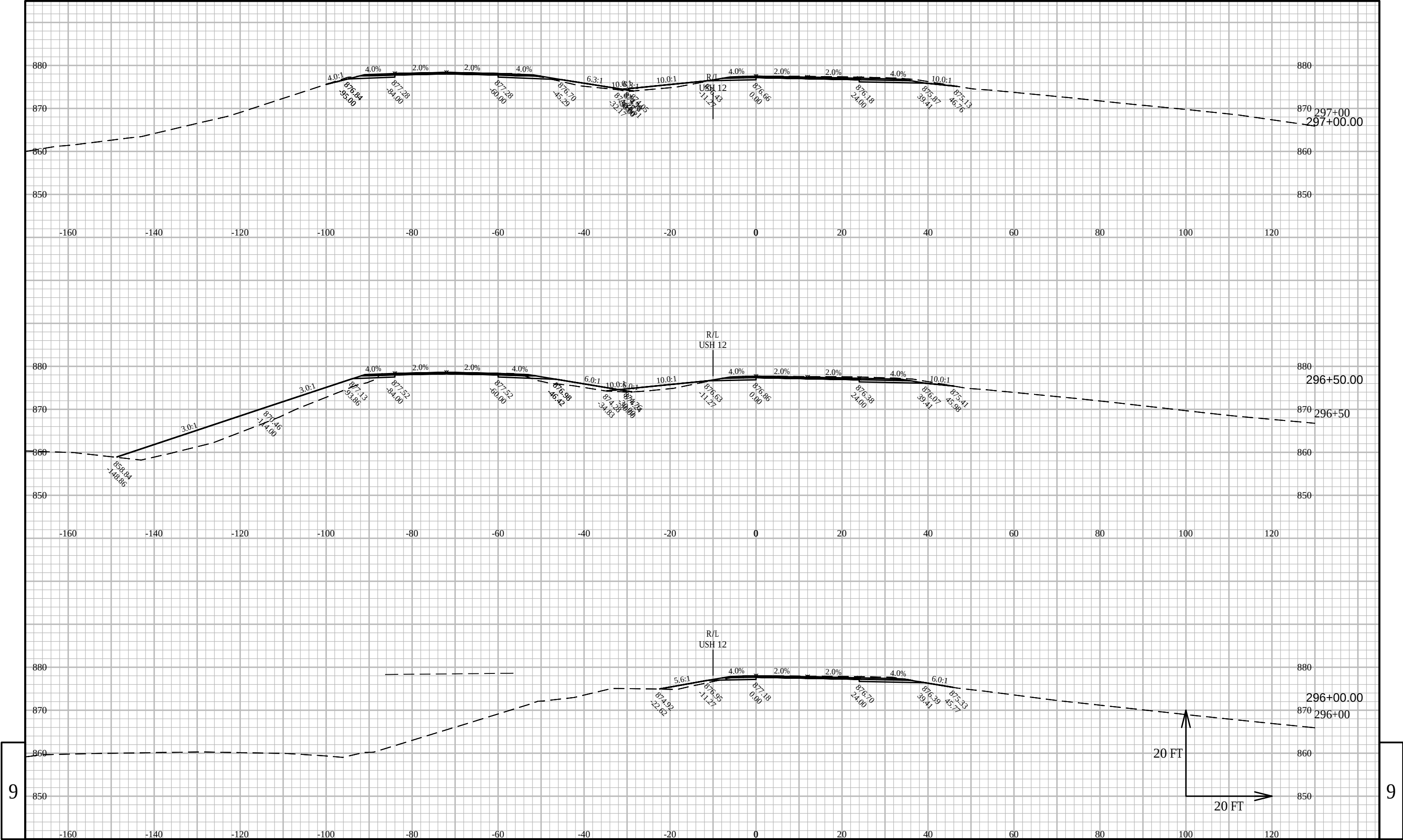
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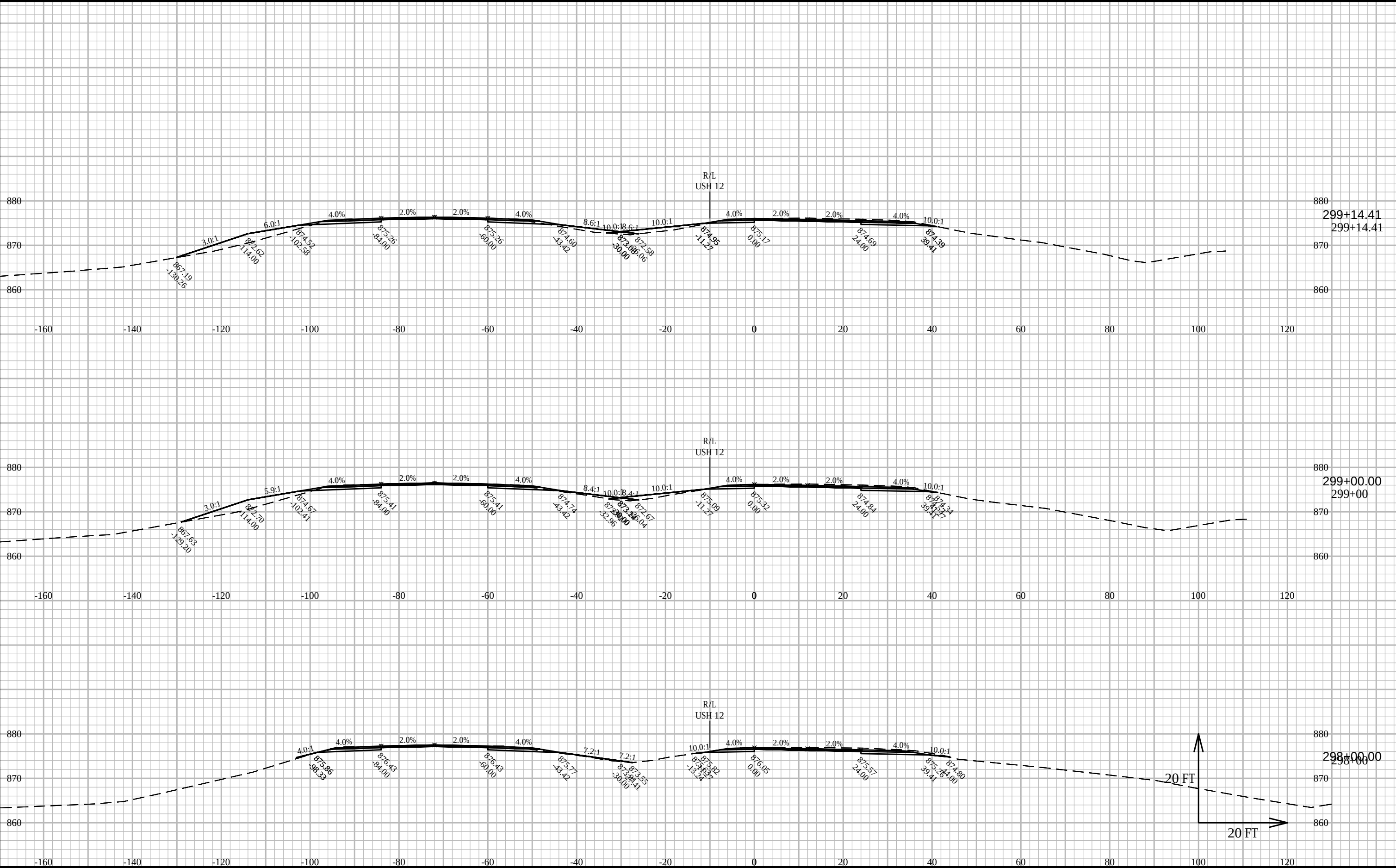
PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	USH 12	SHEET	PRE_143	E
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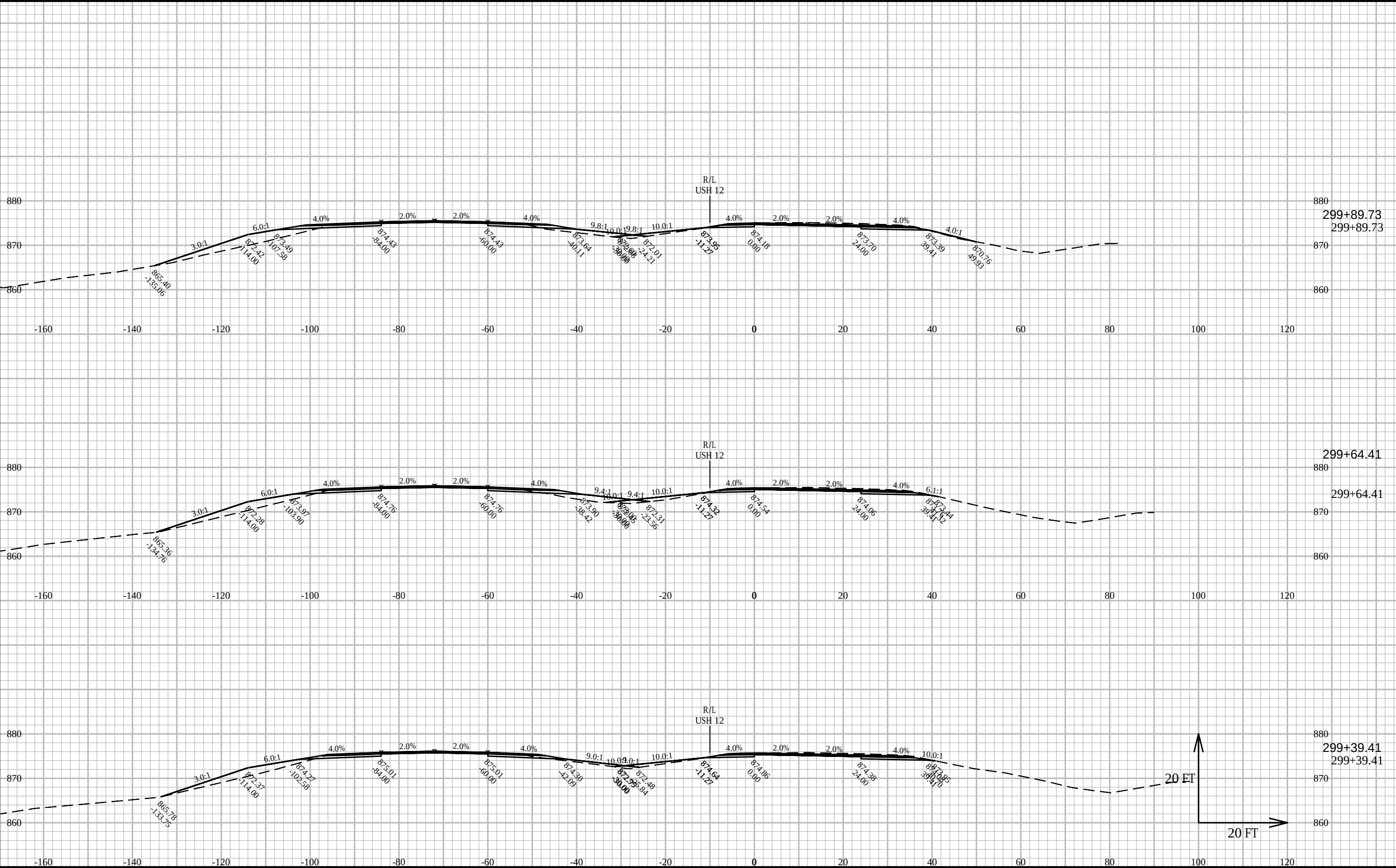




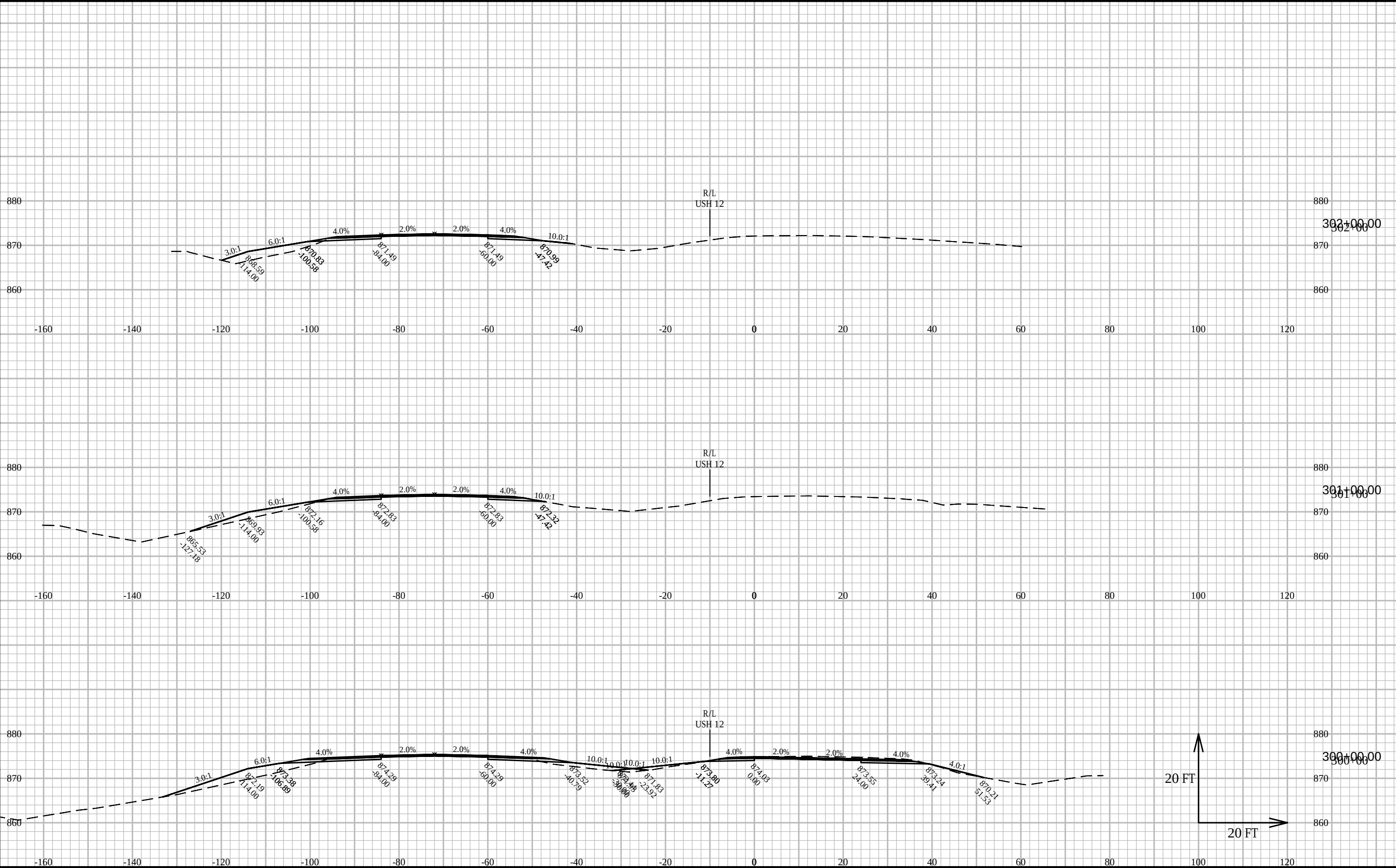




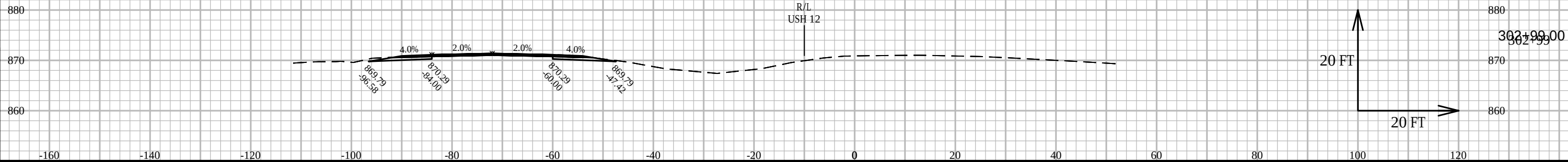
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: USH 12	SHEET PRE_149	E
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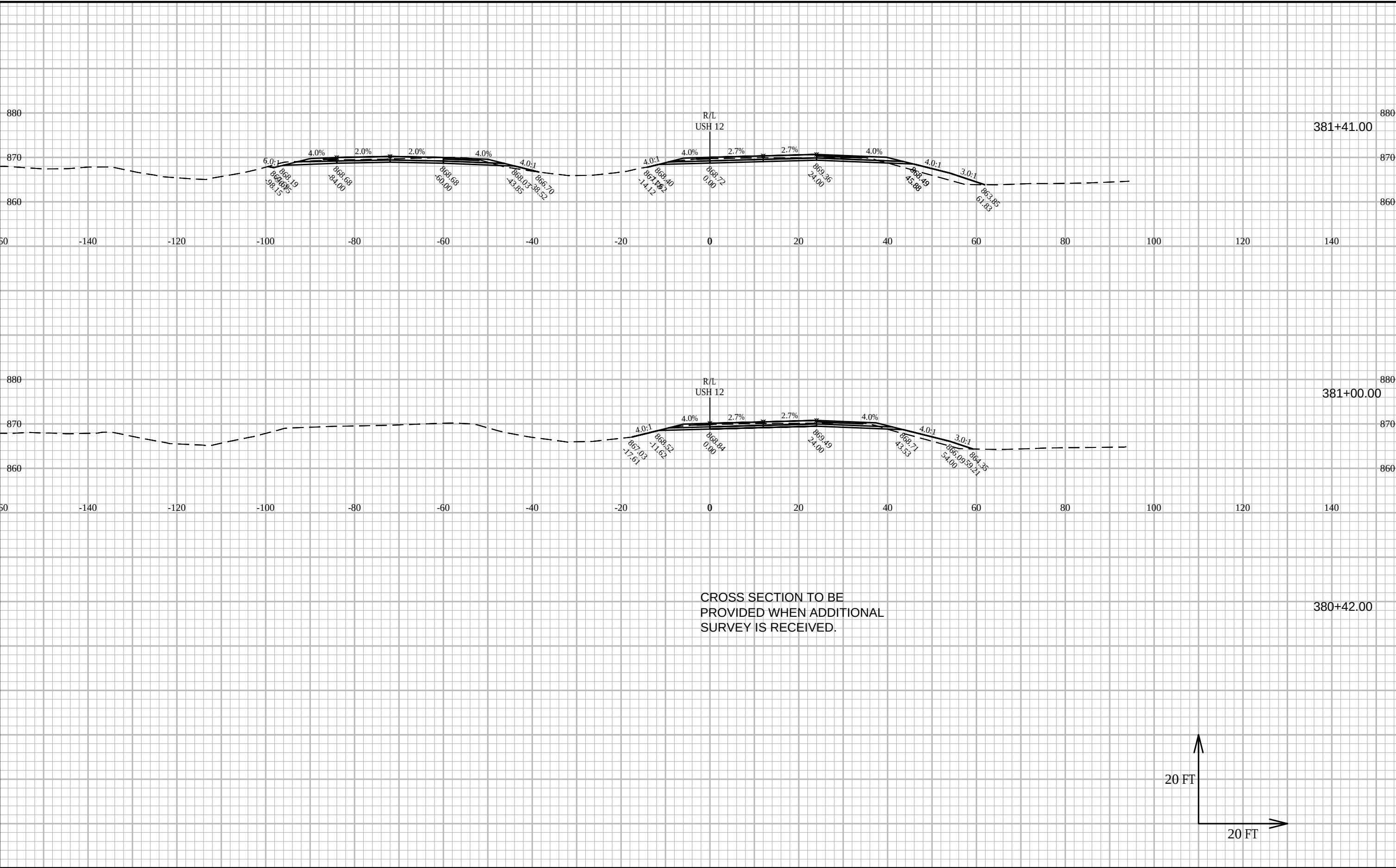
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: USH 12	SHEET PRE_150	E
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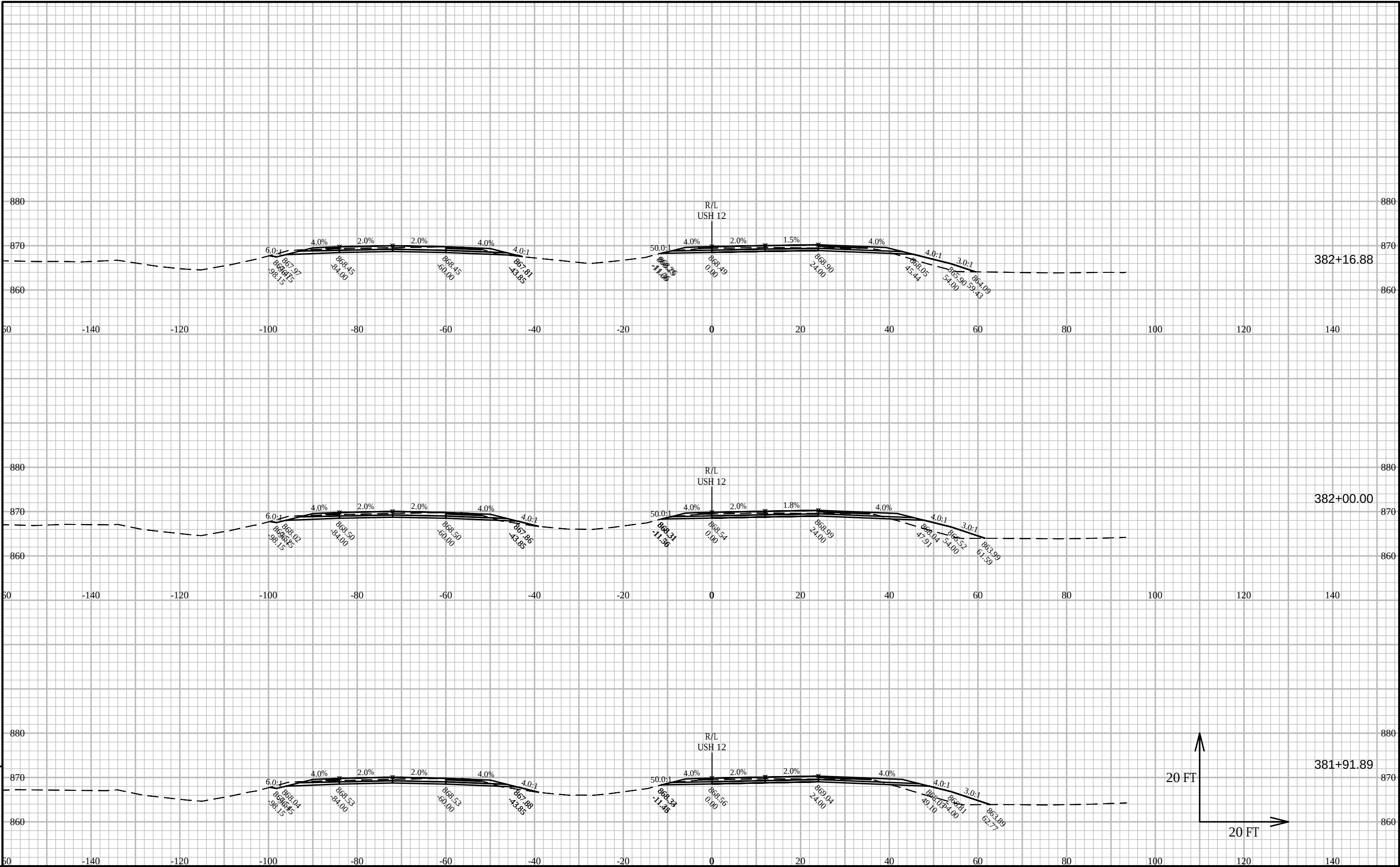


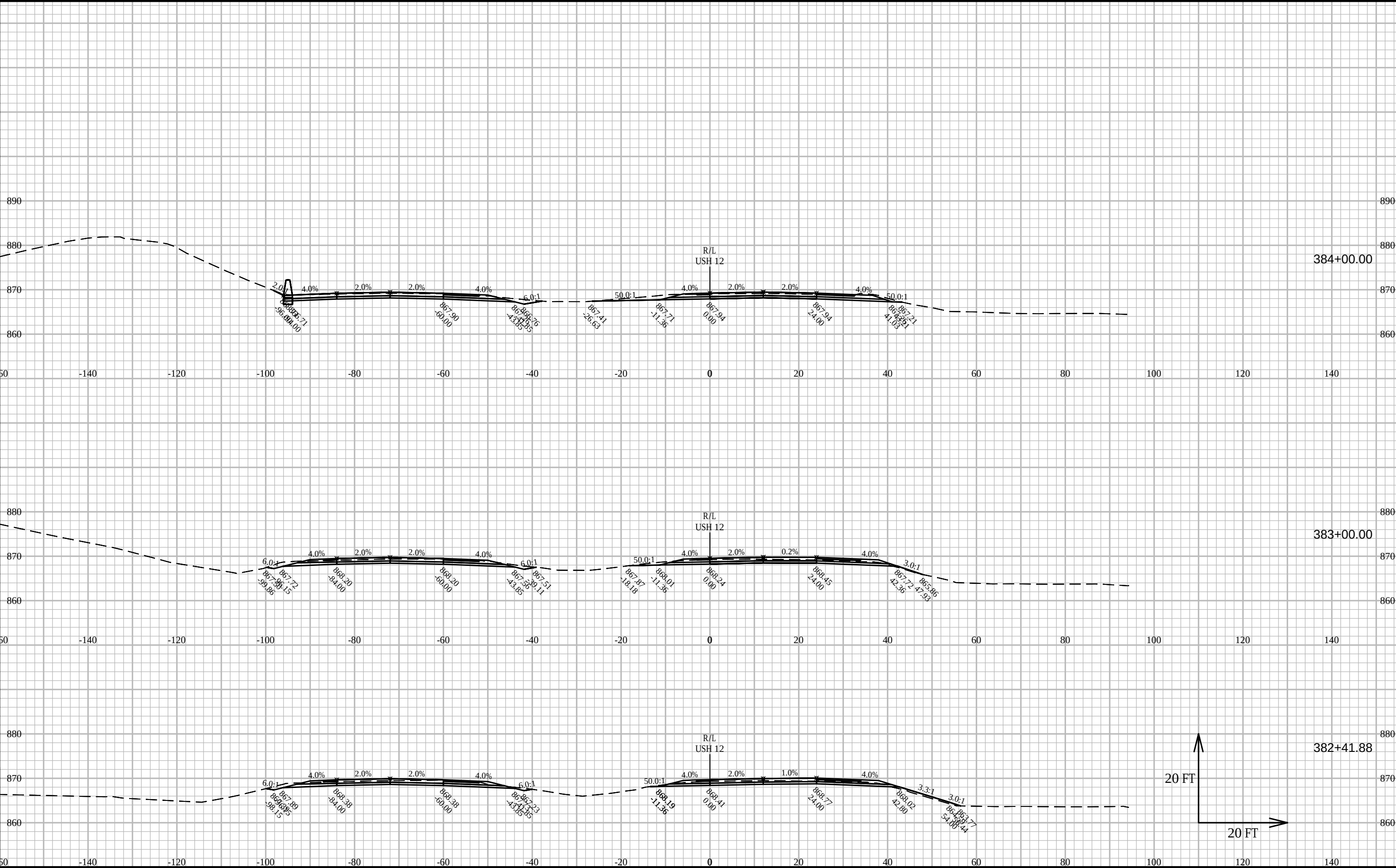
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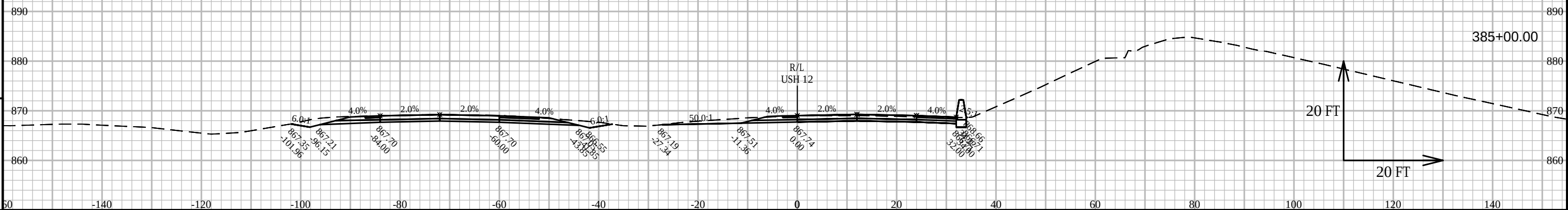
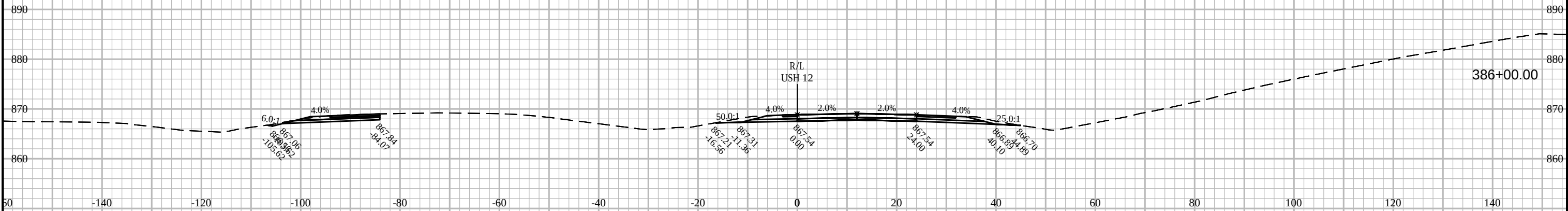
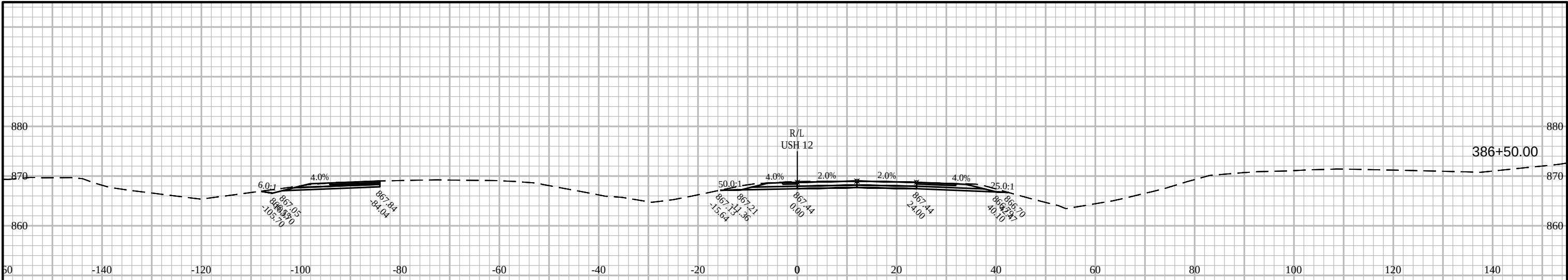


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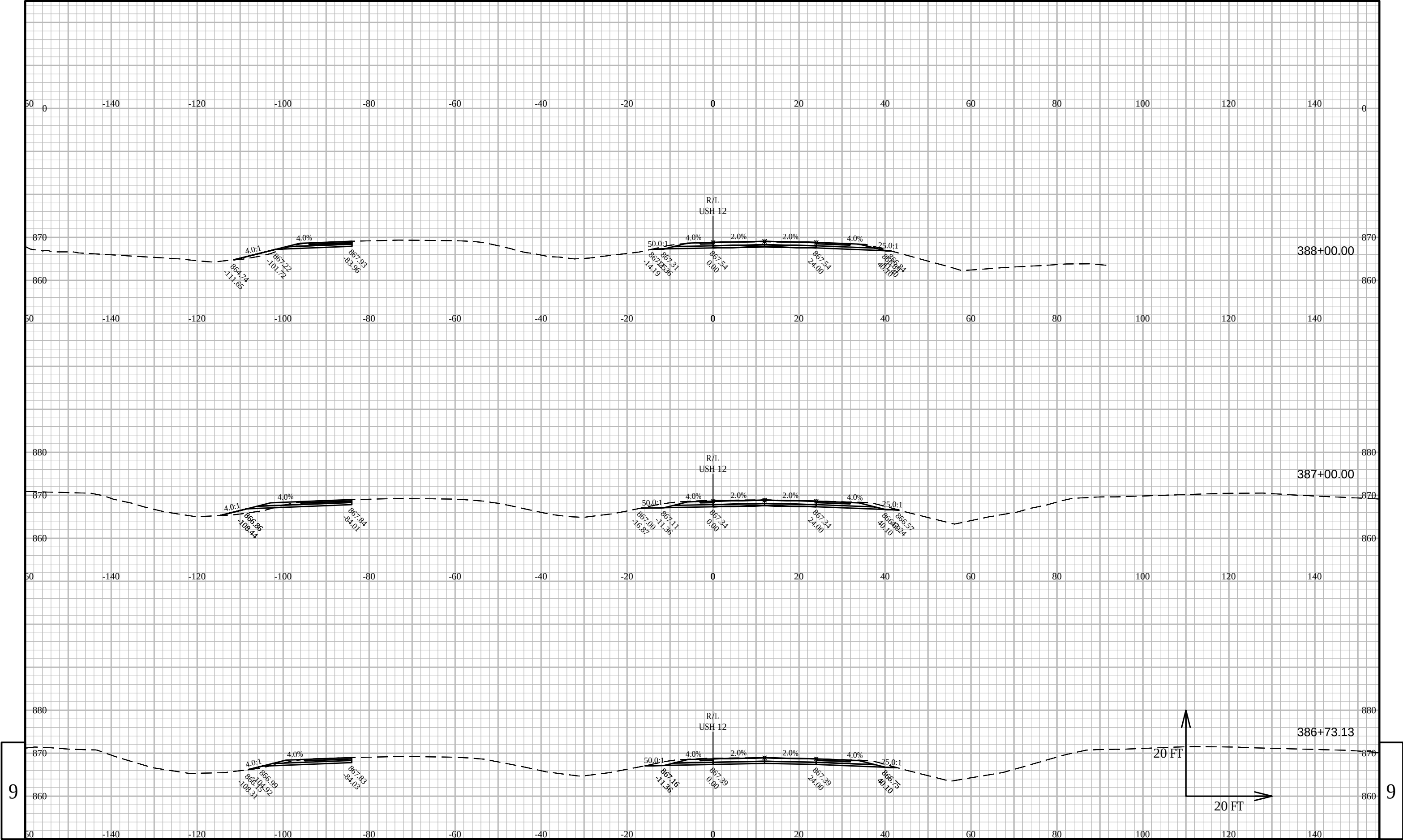
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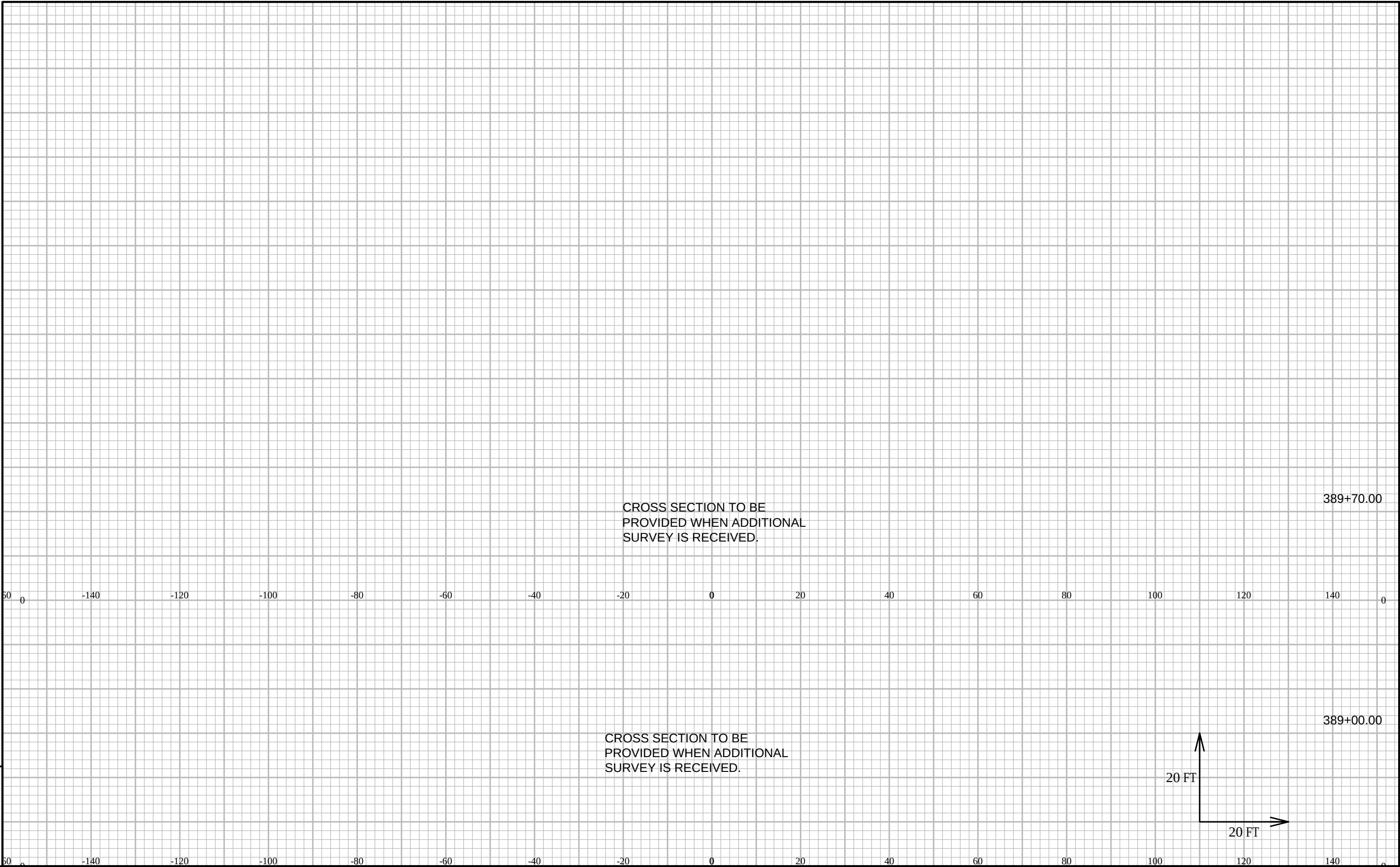




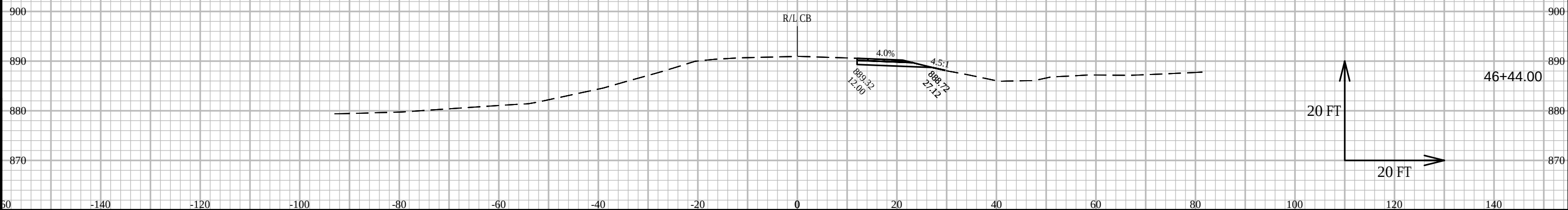
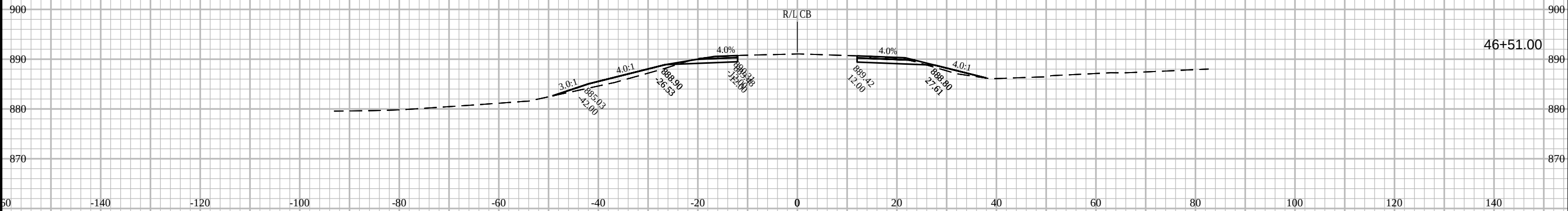
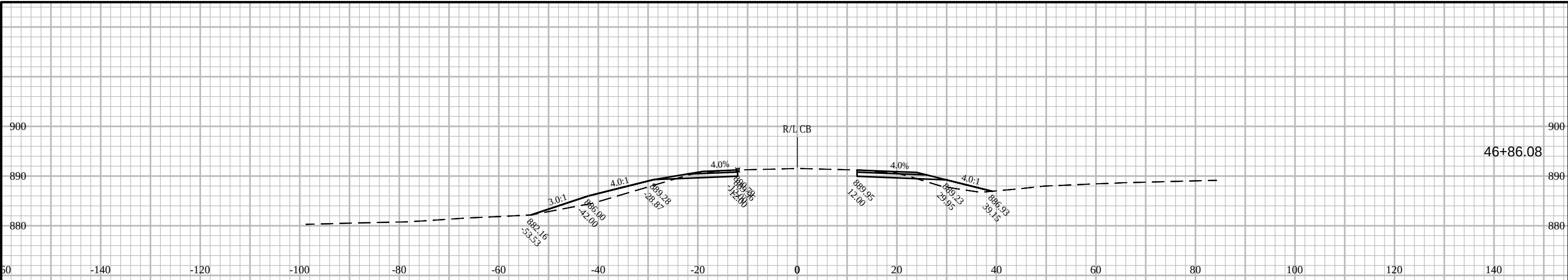


PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	USH 12	SHEET	PRE_156	E
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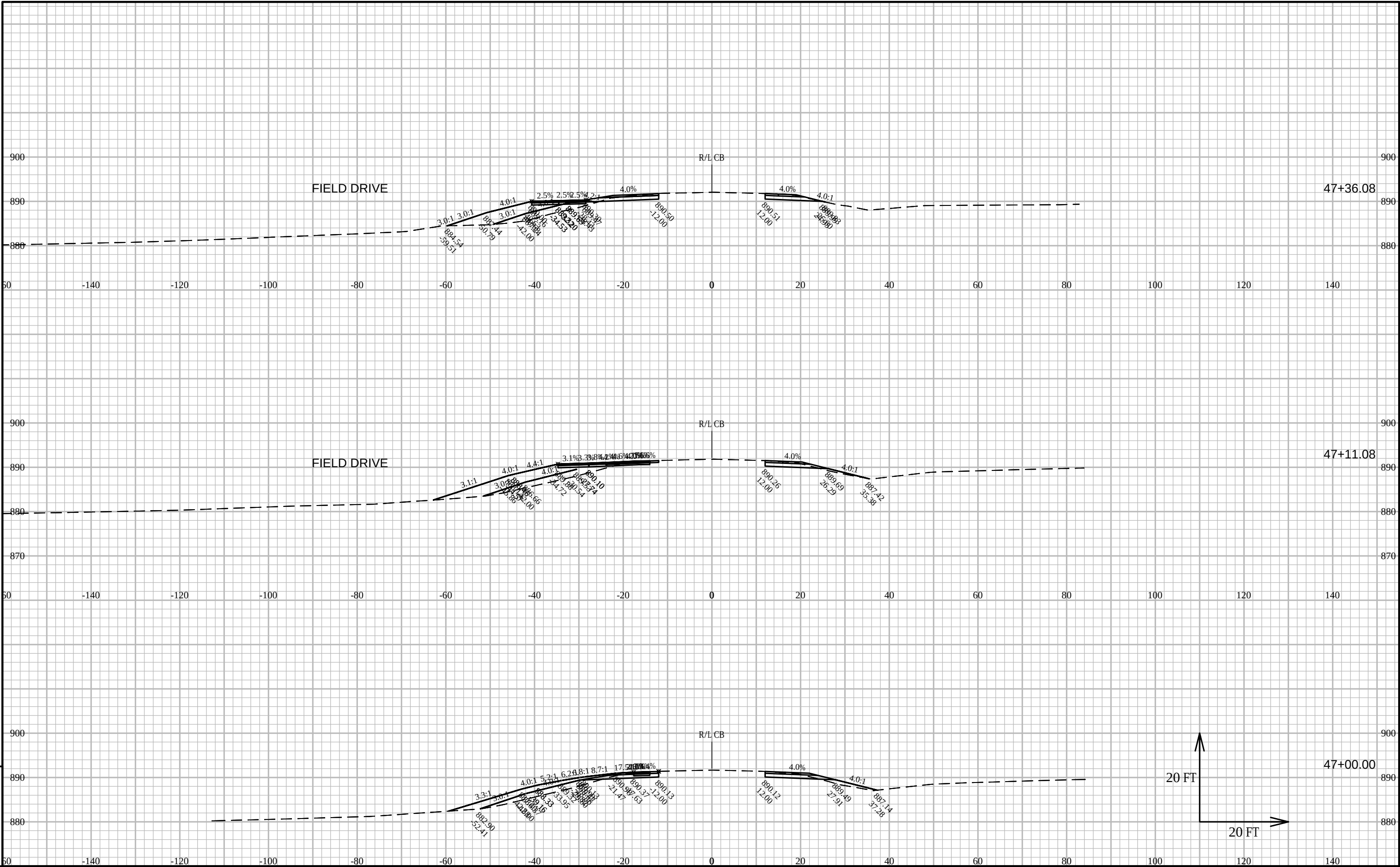
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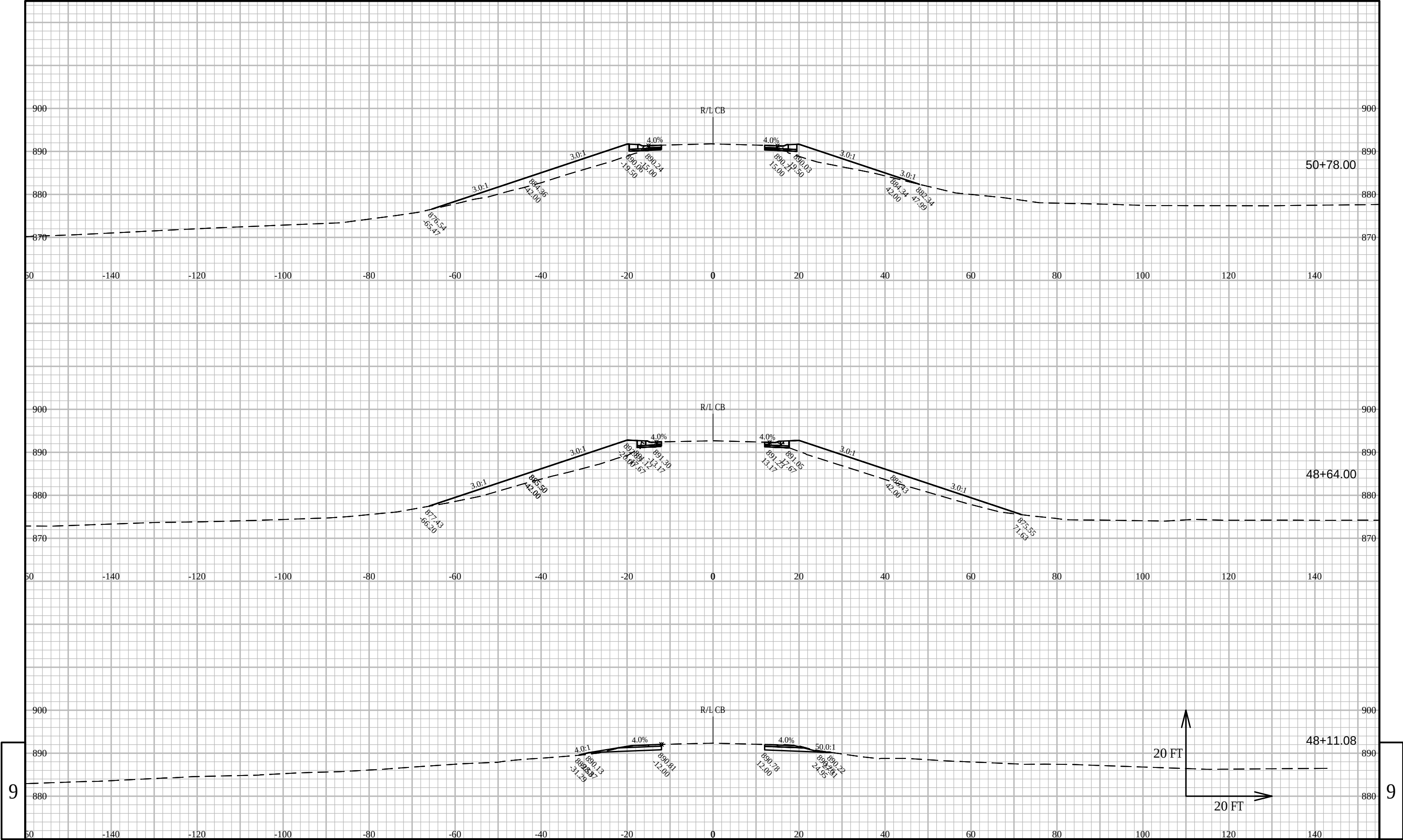
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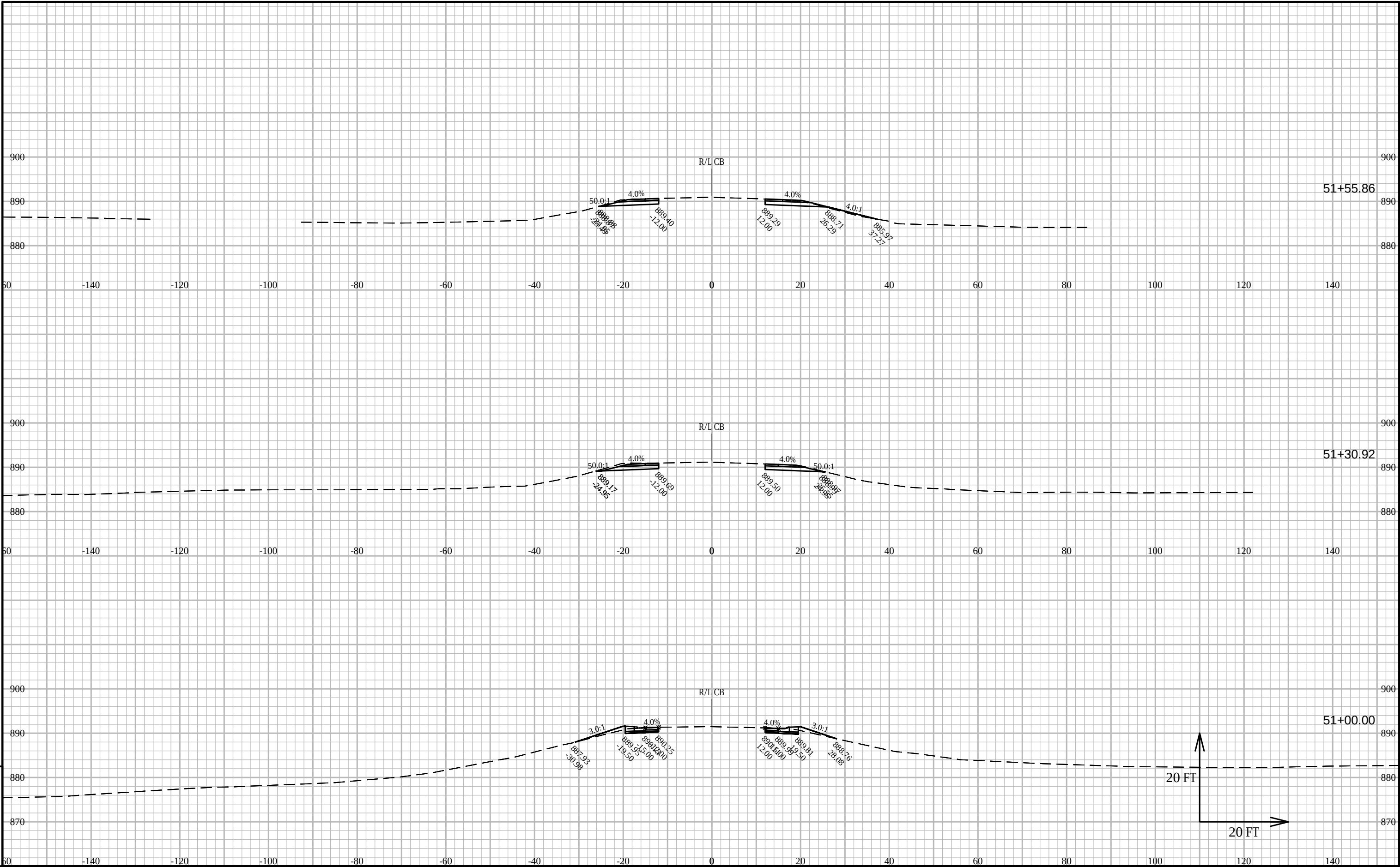
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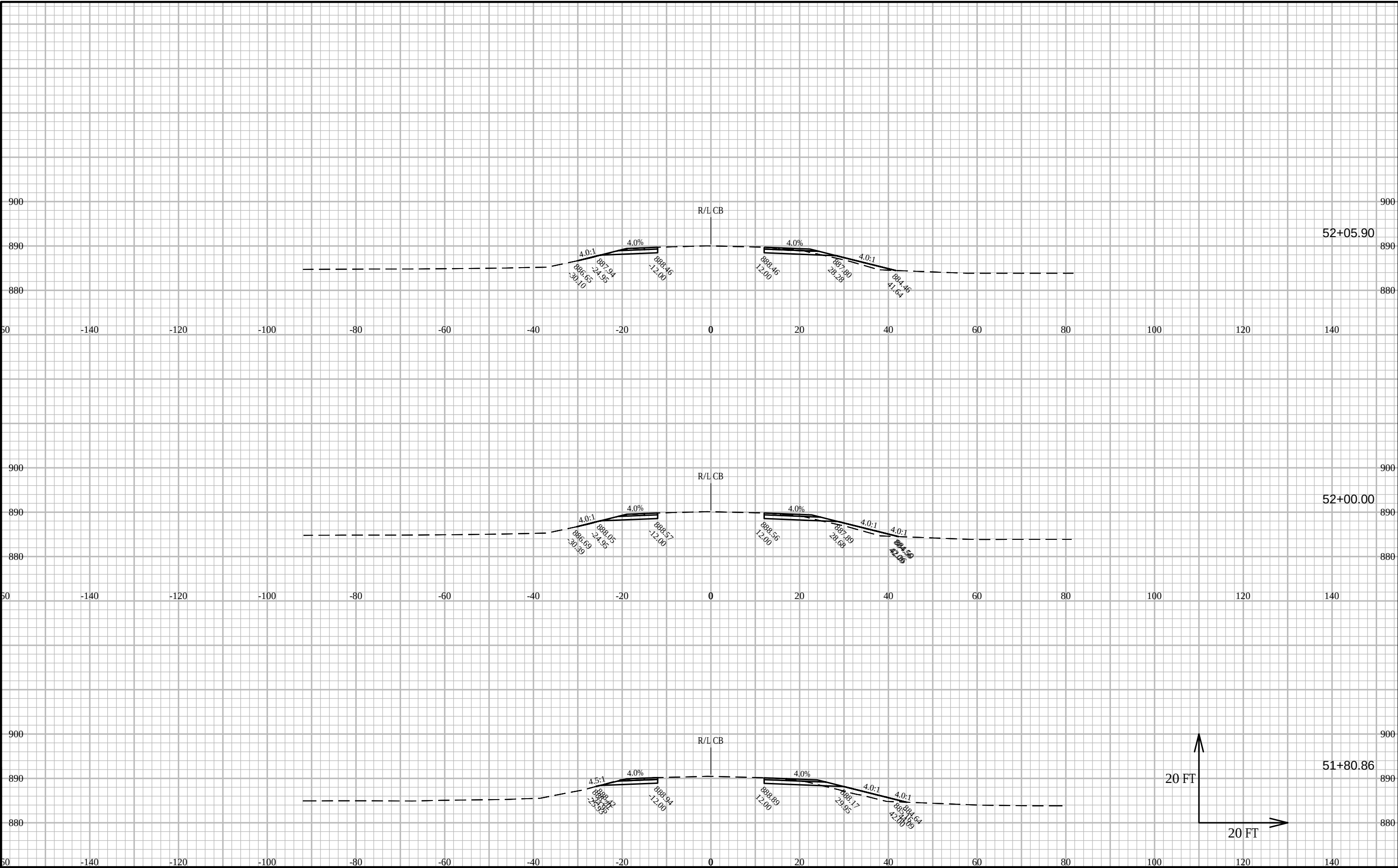
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: CTH B	SHEET PRE_159	E
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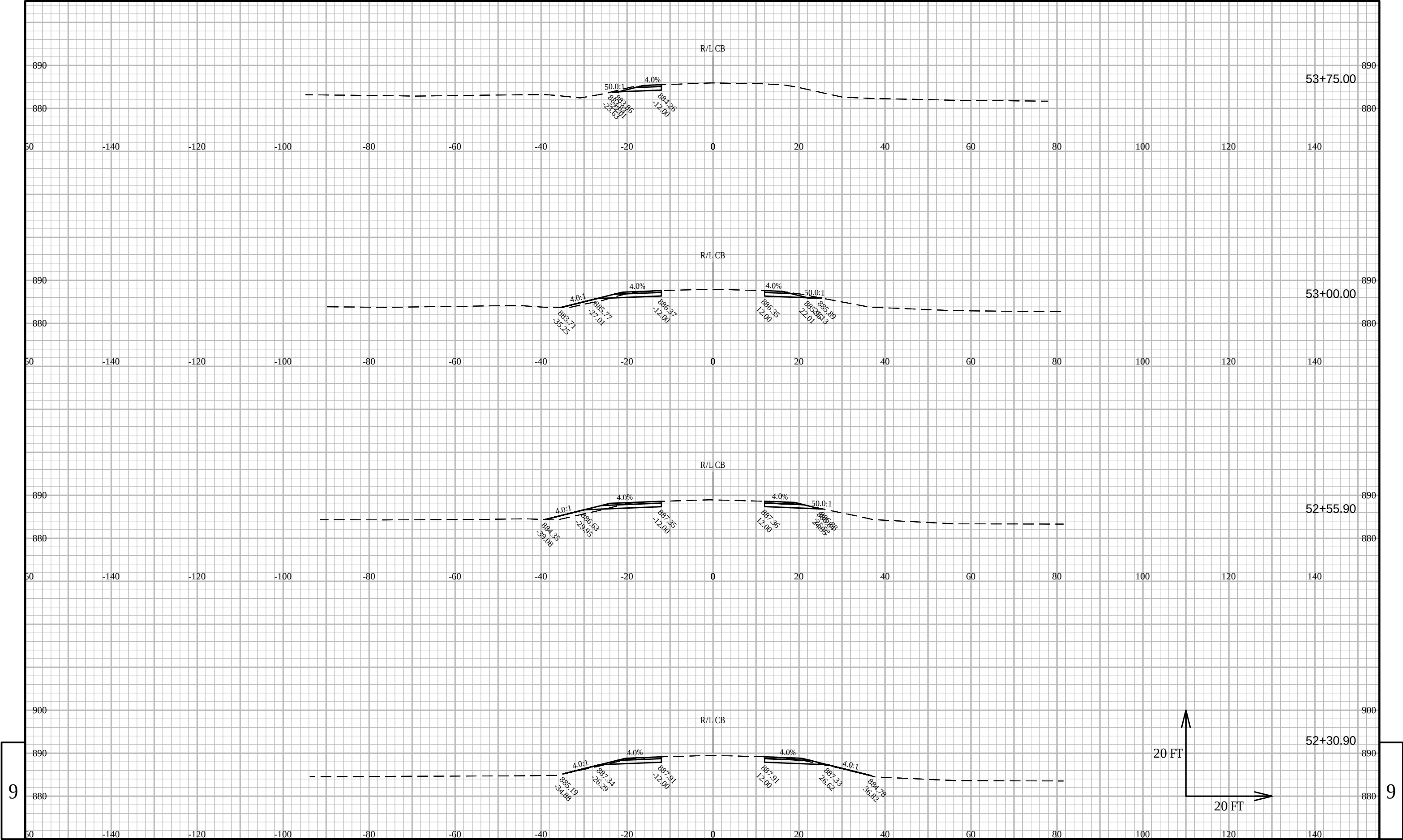


PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	CTH B	SHEET	PRE_160	E
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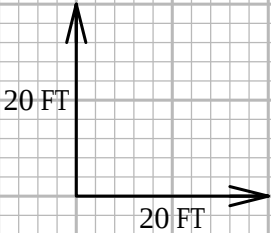
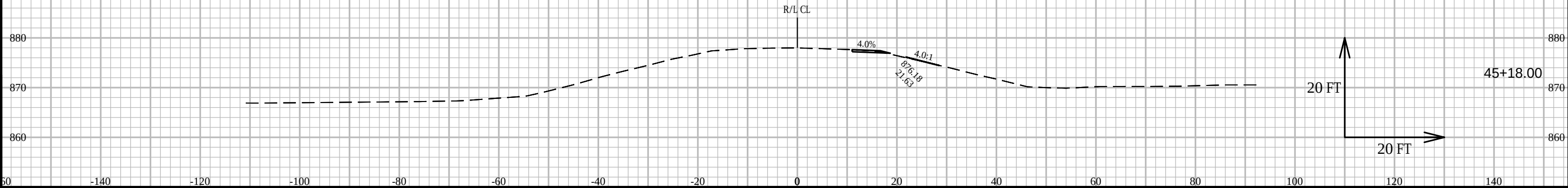
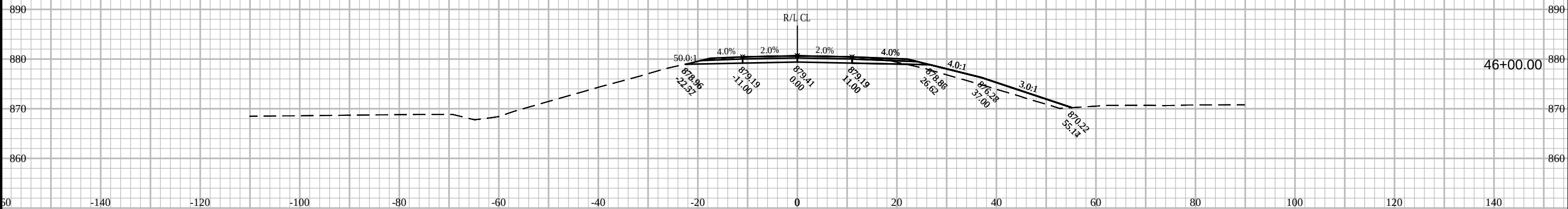
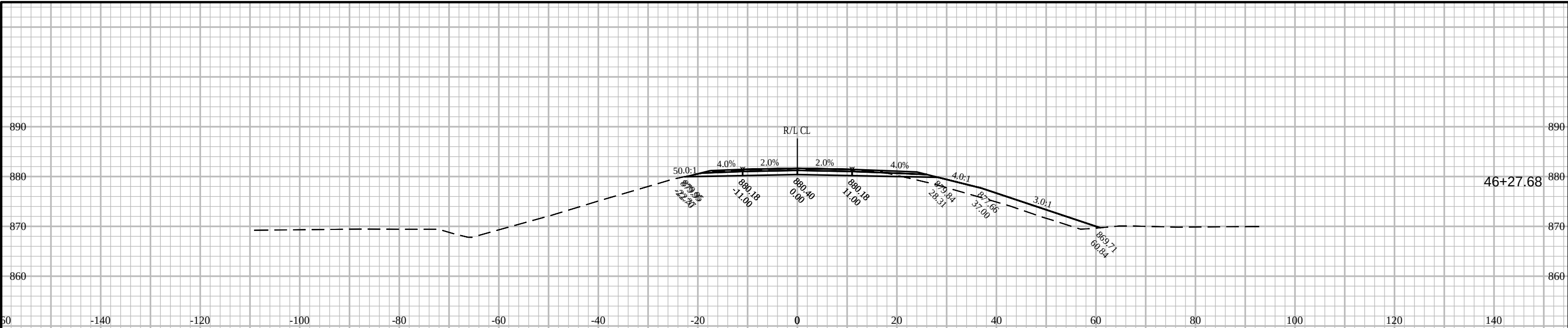






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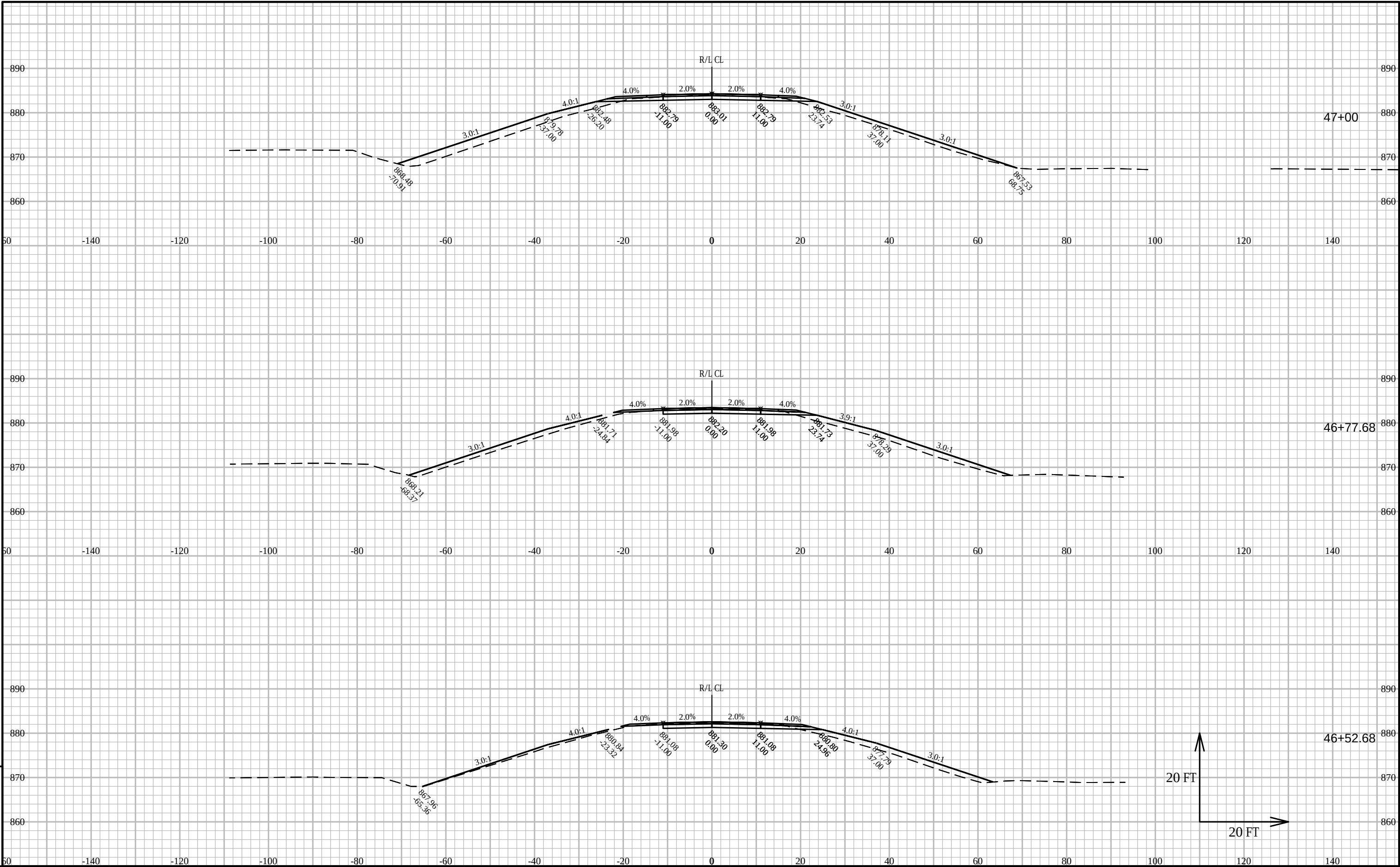
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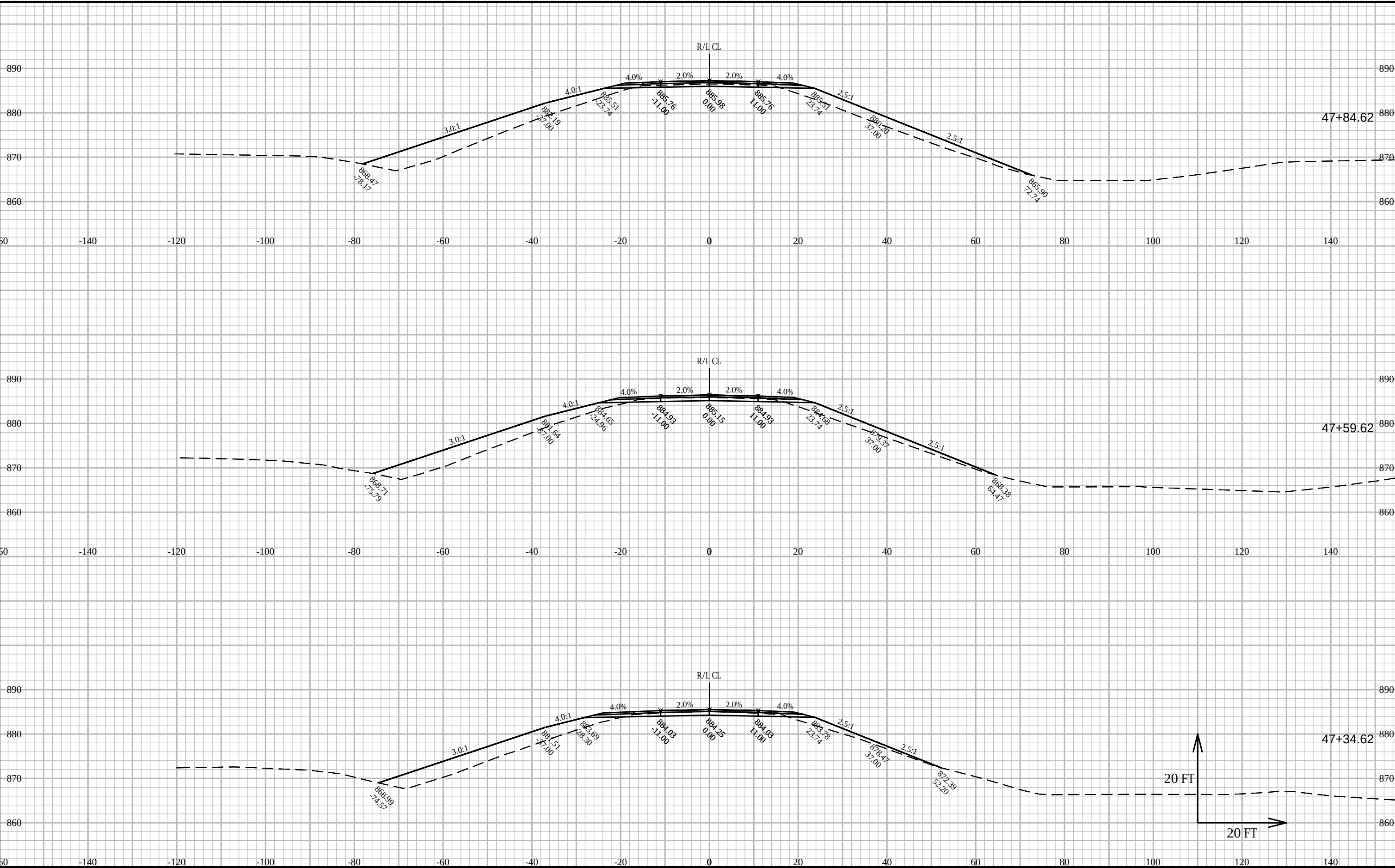
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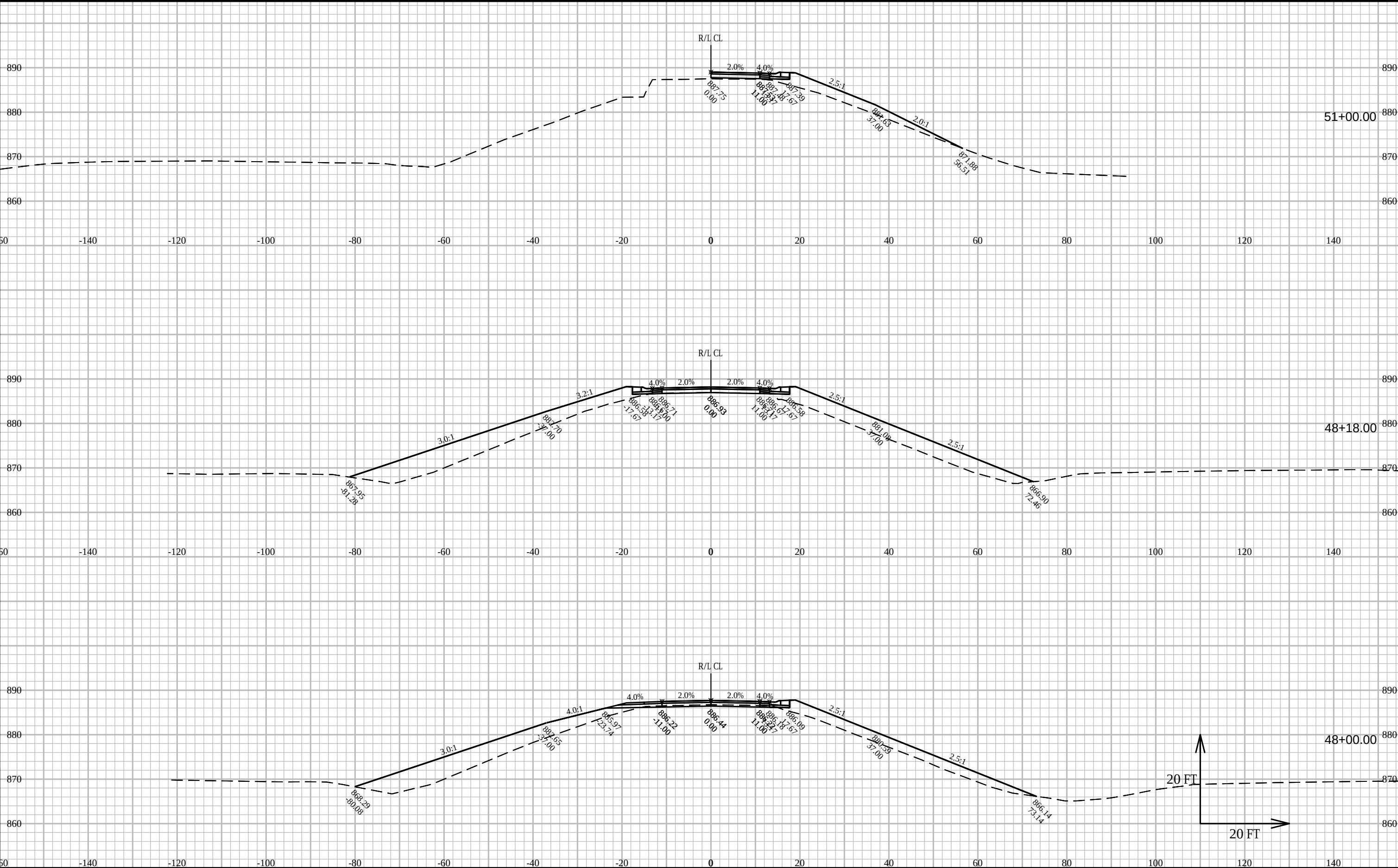
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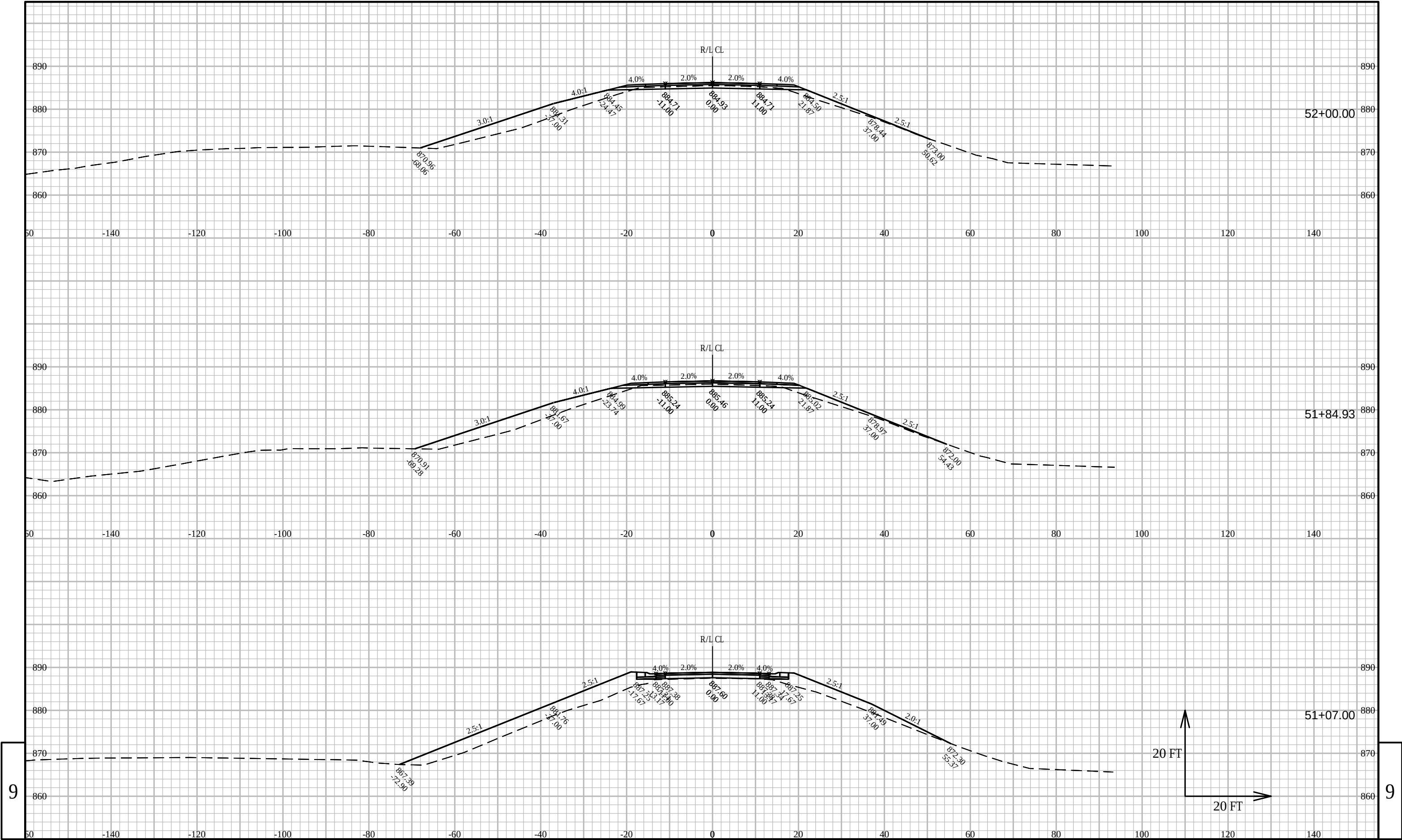
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: CLOVER ROAD	SHEET PRE_166	E
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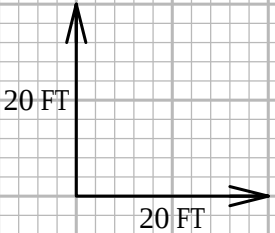
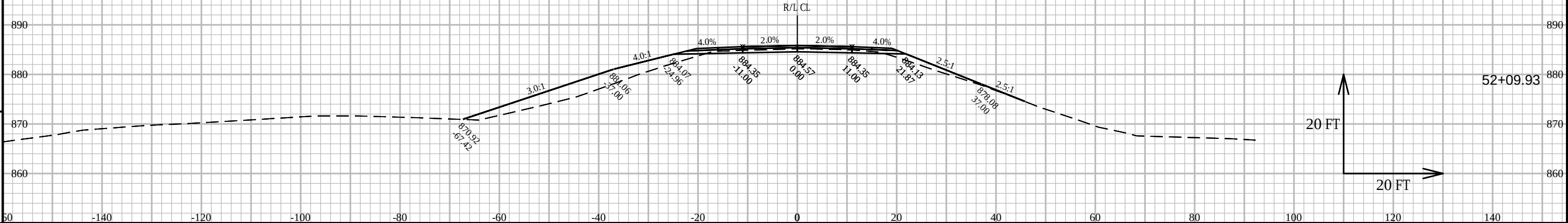
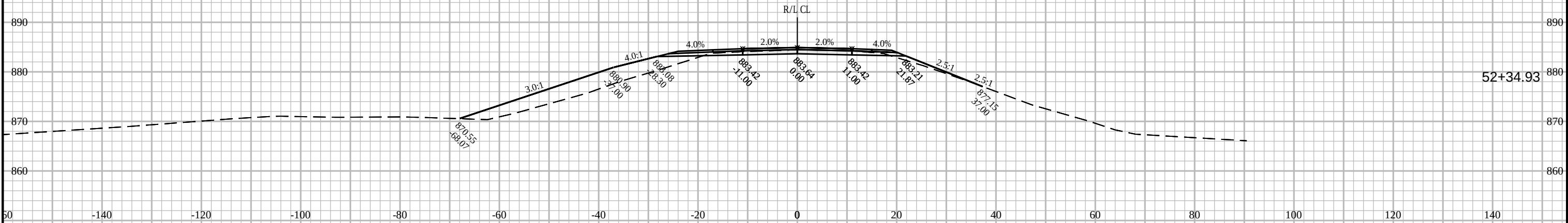
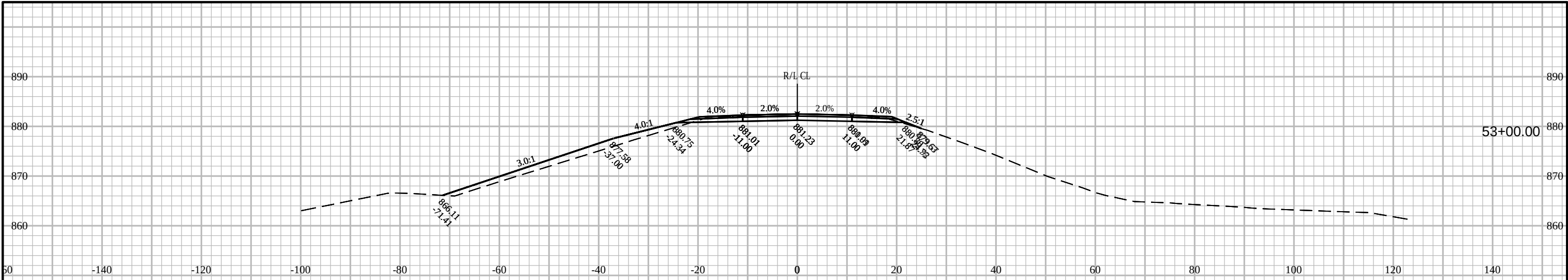


PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: CLOVER ROAD	SHEET PRE_167	E
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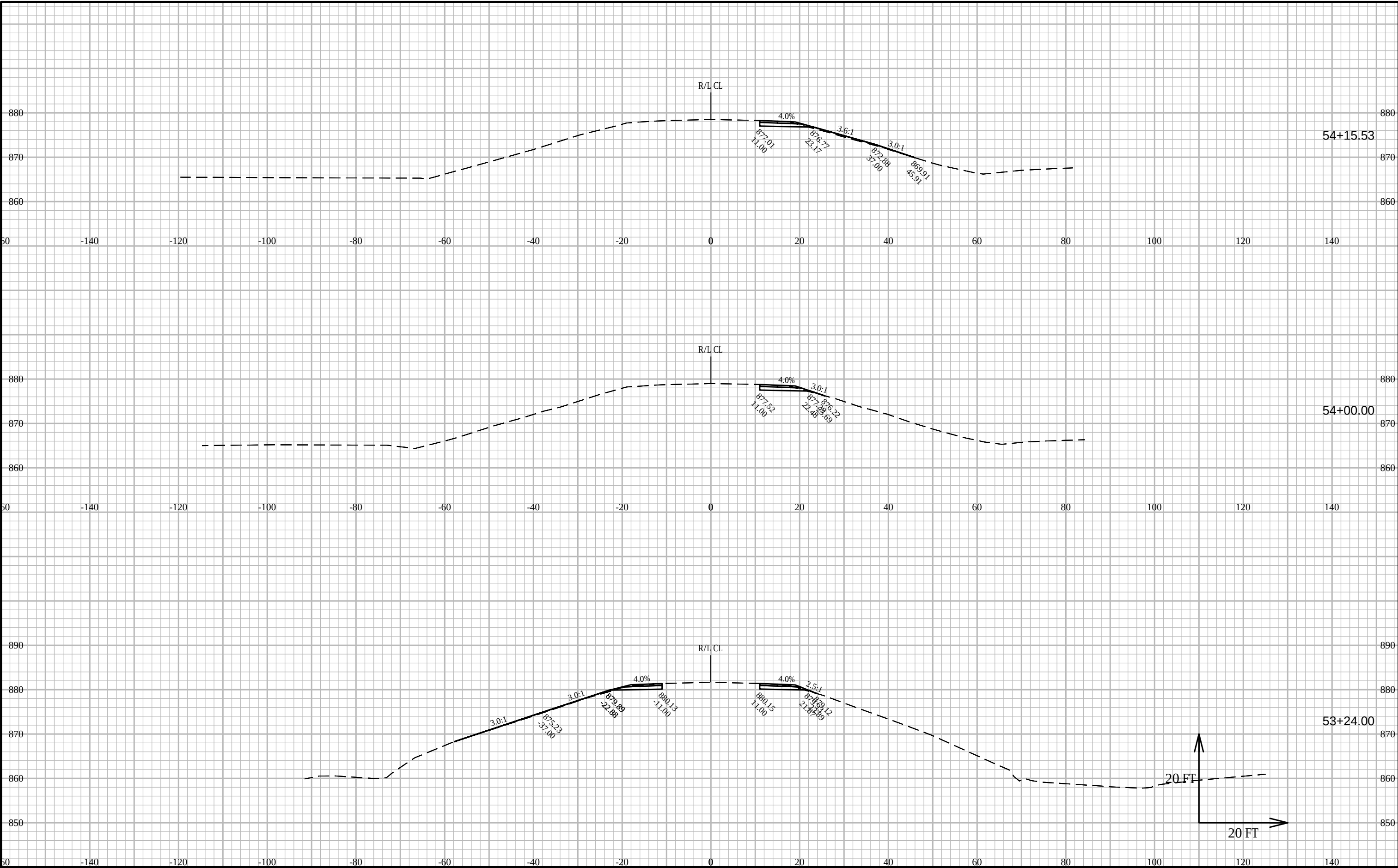


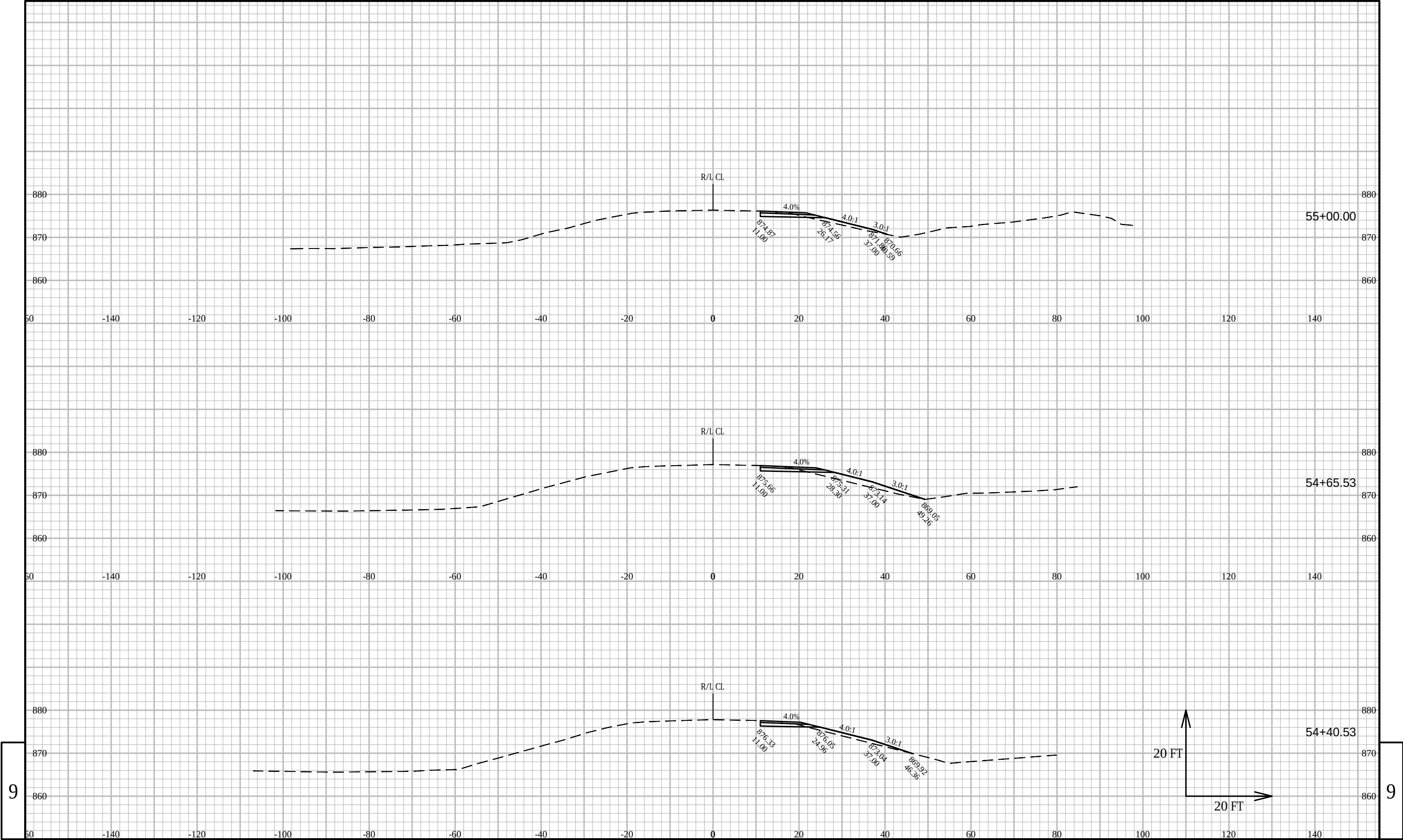


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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: CLOVER ROAD	SHEET PRE_171	E
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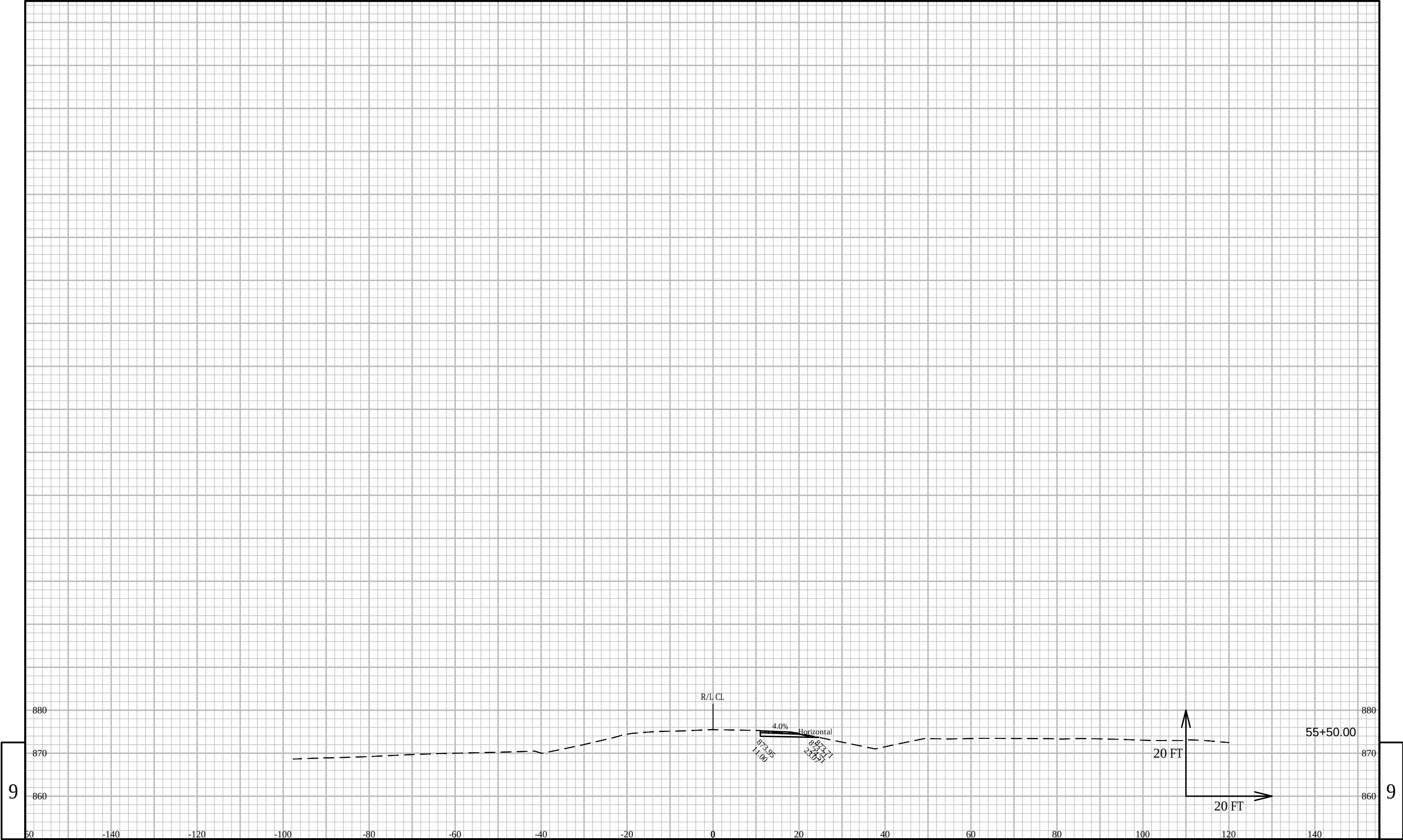




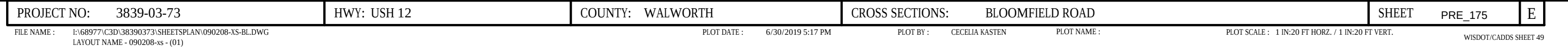
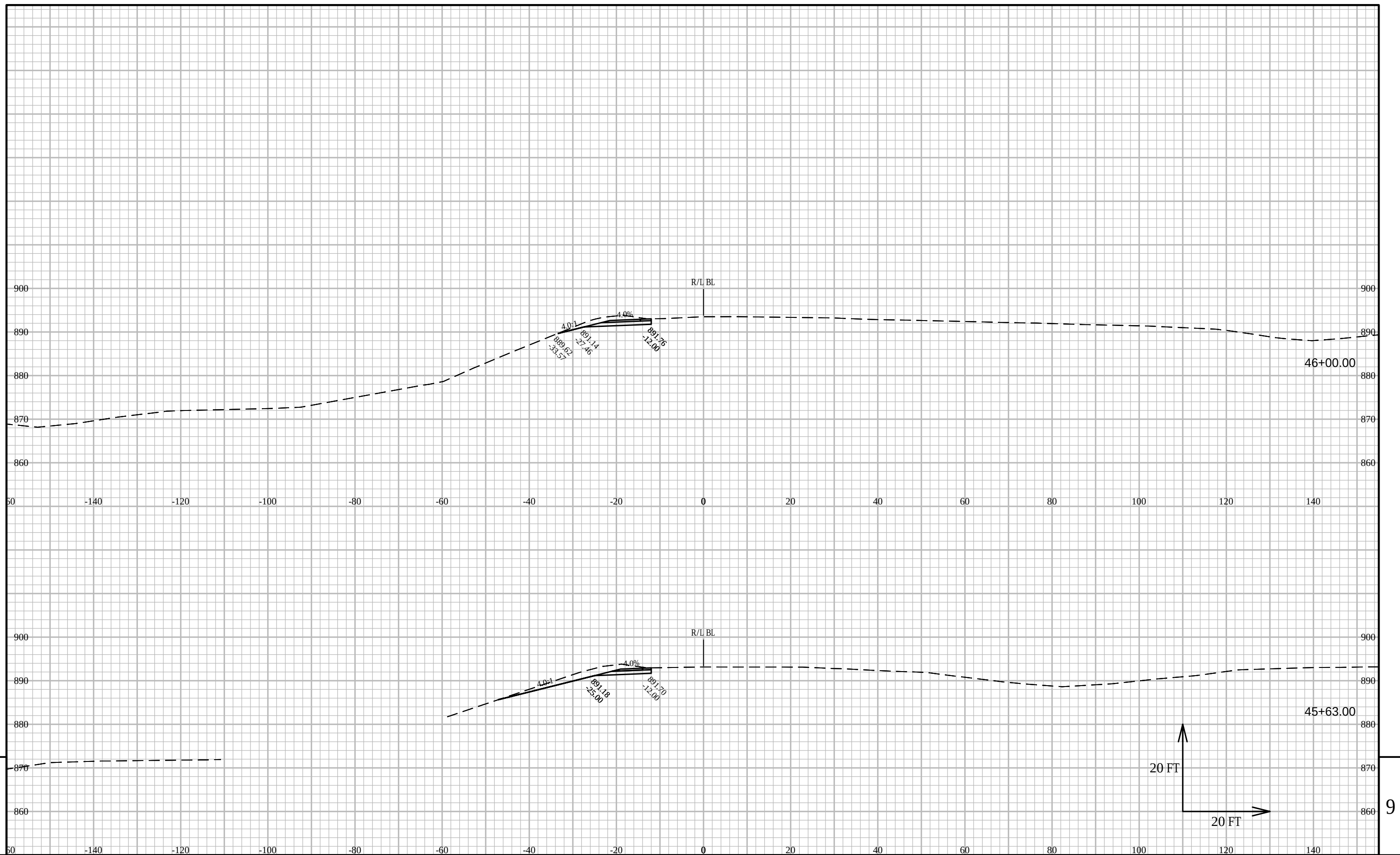
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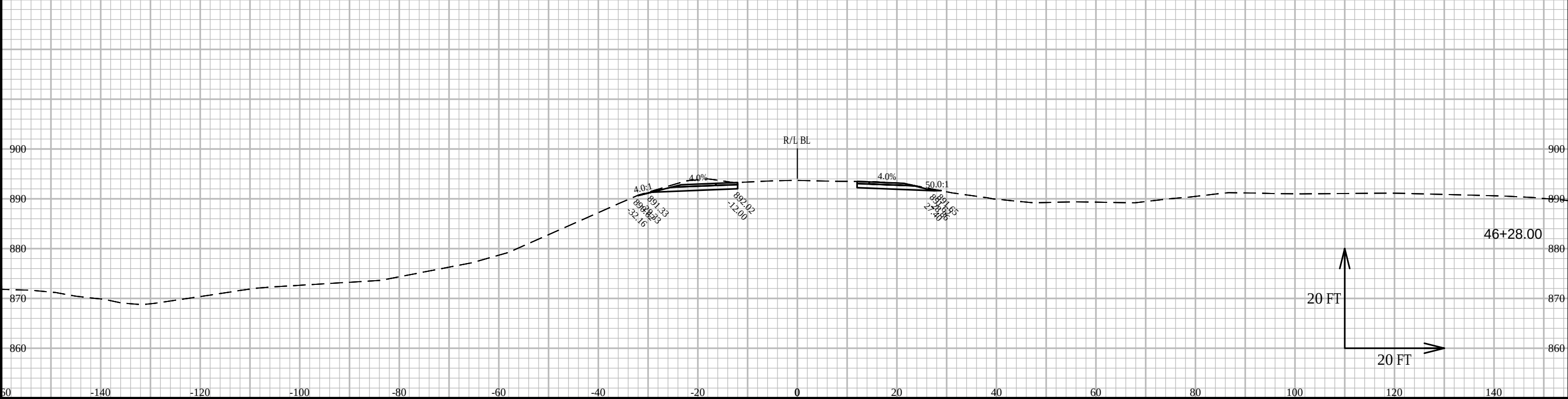
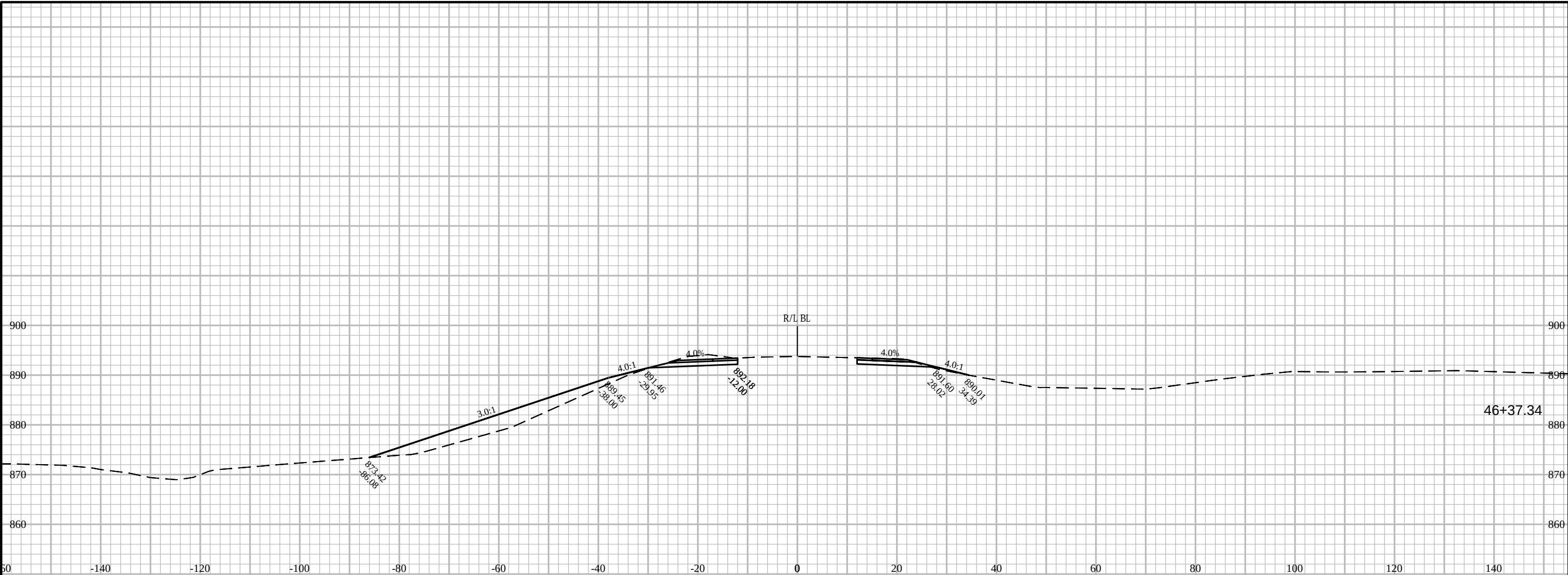
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: CLOVER ROAD	SHEET PRE_173	E
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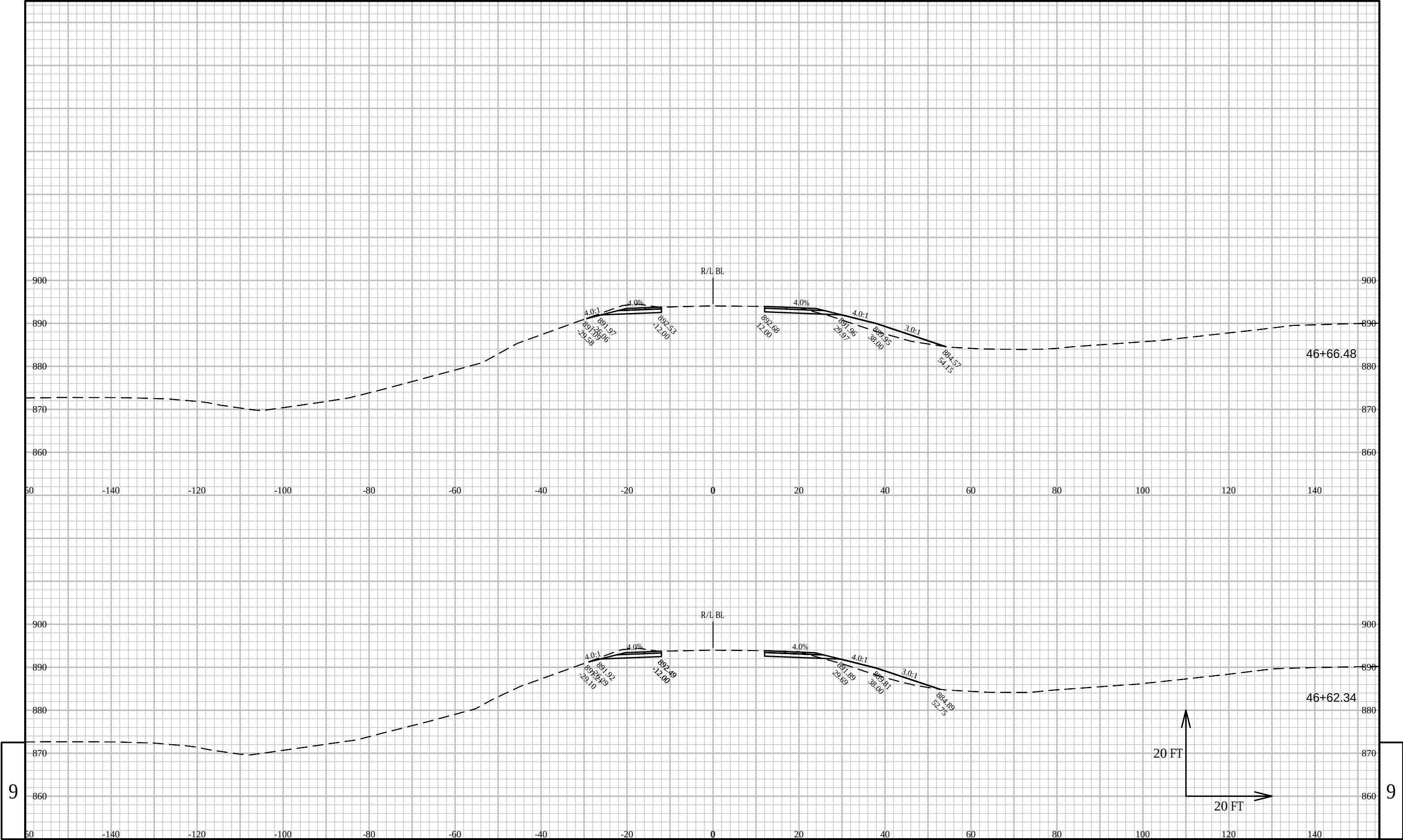


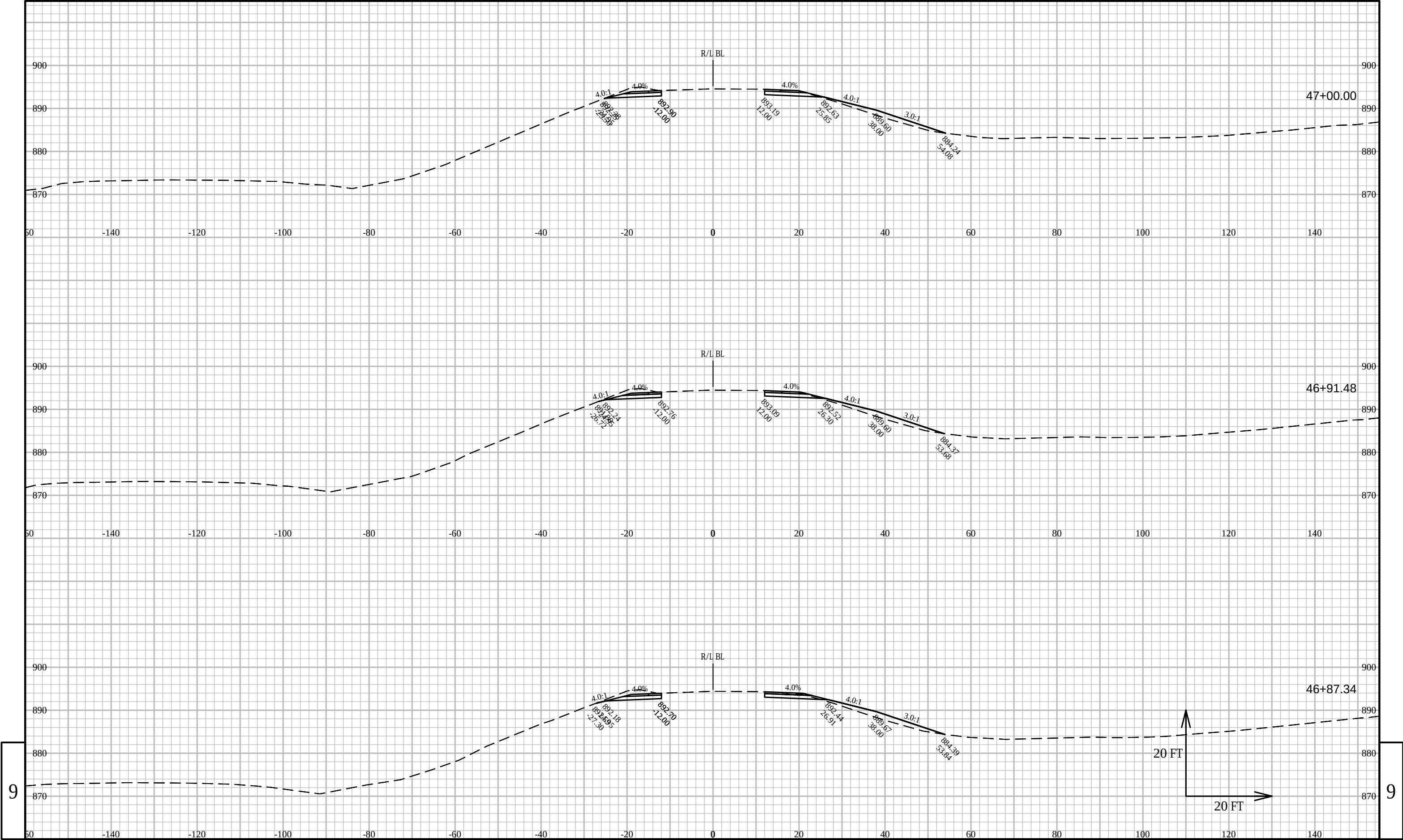
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50		-140	-120	-100	-80	-60	-40	-20	0	20	40	60	80	100	120	140		
PROJECT NO: 3839-03-73			HWY: USH 12			COUNTY: WALWORTH			CROSS SECTIONS: CLOVER ROAD							SHEET PRE_174	E	





PROJECT NO:	3839-03-73	HWY:	USH 12	COUNTY:	WALWORTH	CROSS SECTIONS:	BLOOMFIELD ROAD	SHEET	PRE_176	E
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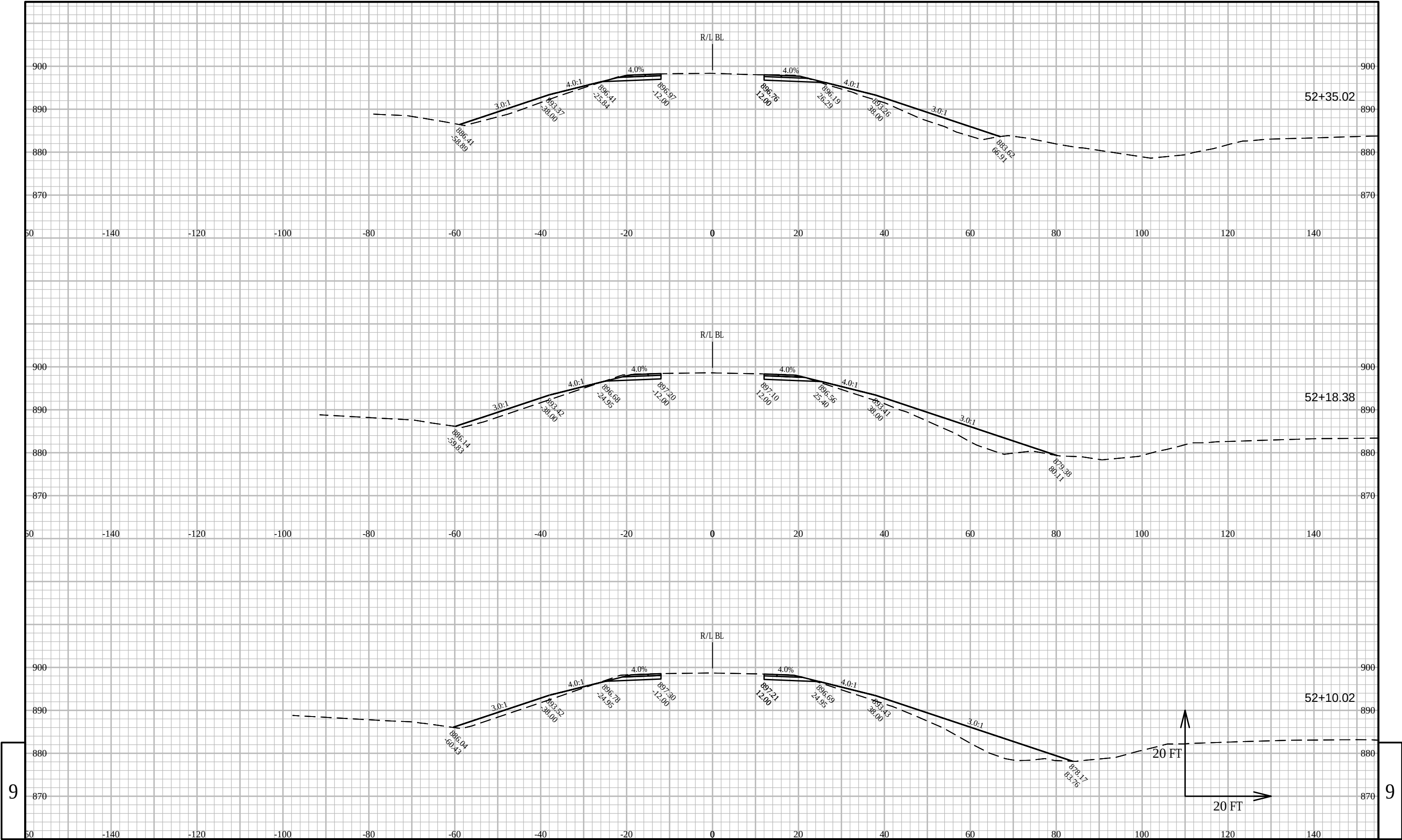




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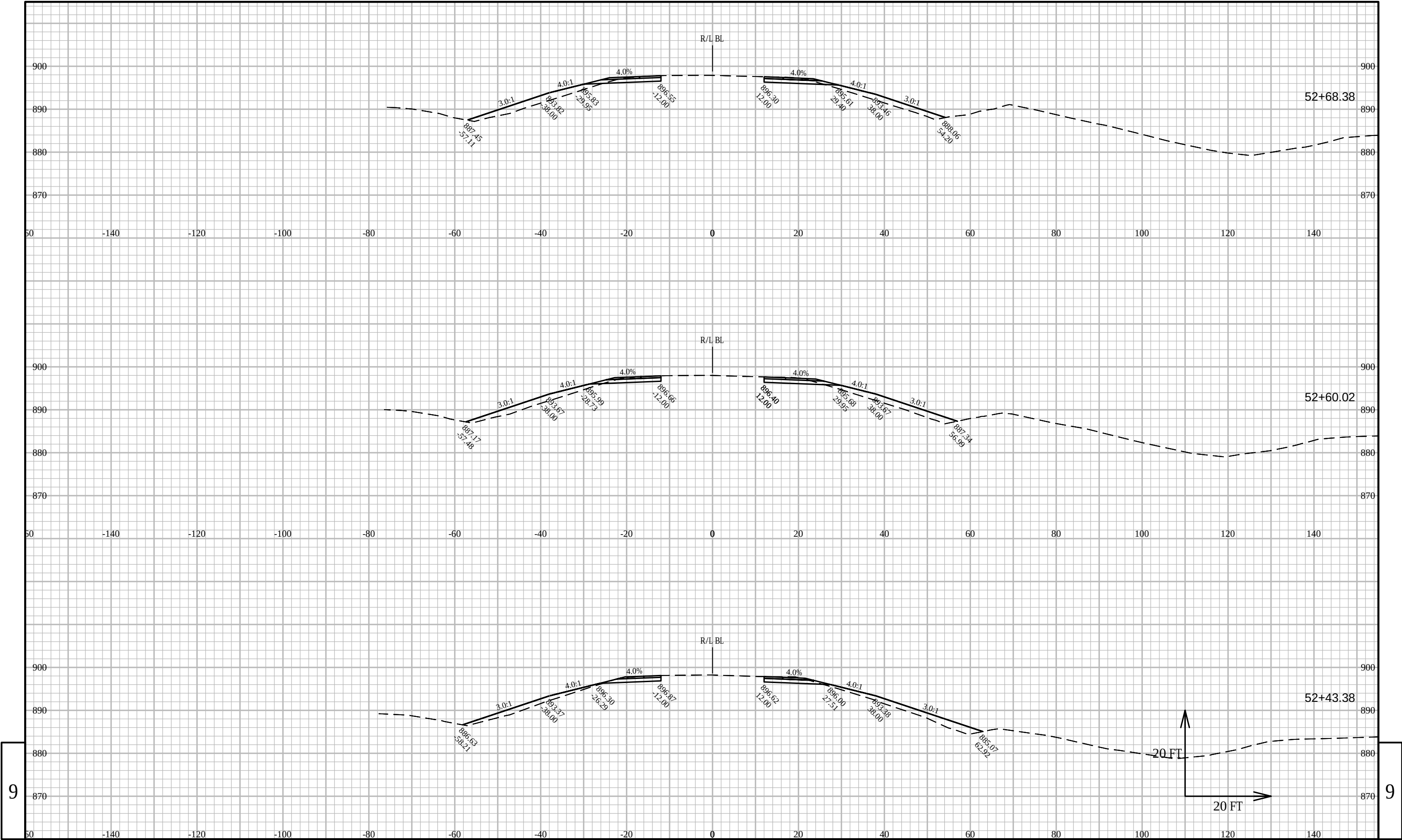
PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: BLOOMFIELD ROAD	SHEET PRE_178	E
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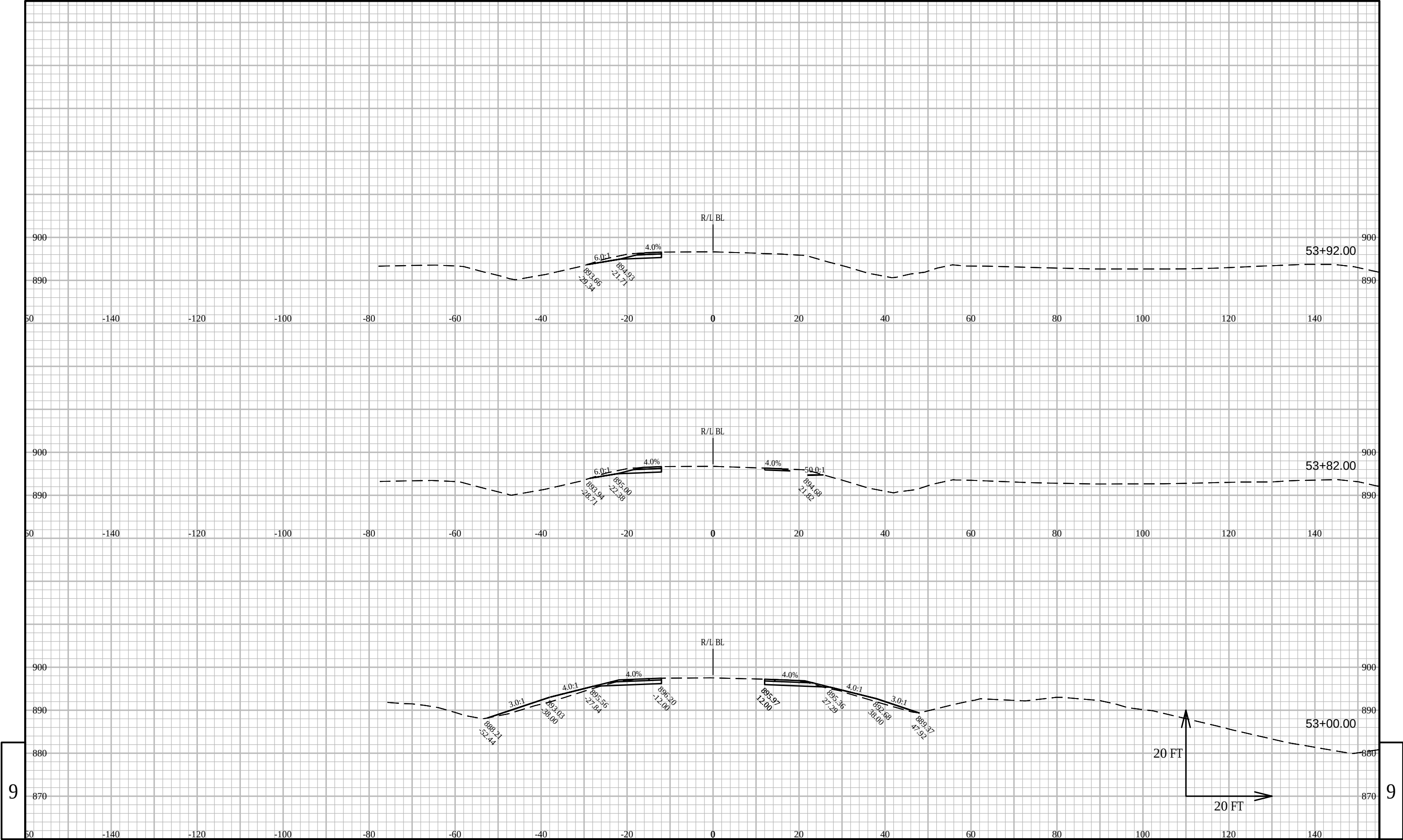
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: BLOOMFIELD ROAD	SHEET PRE_181	E
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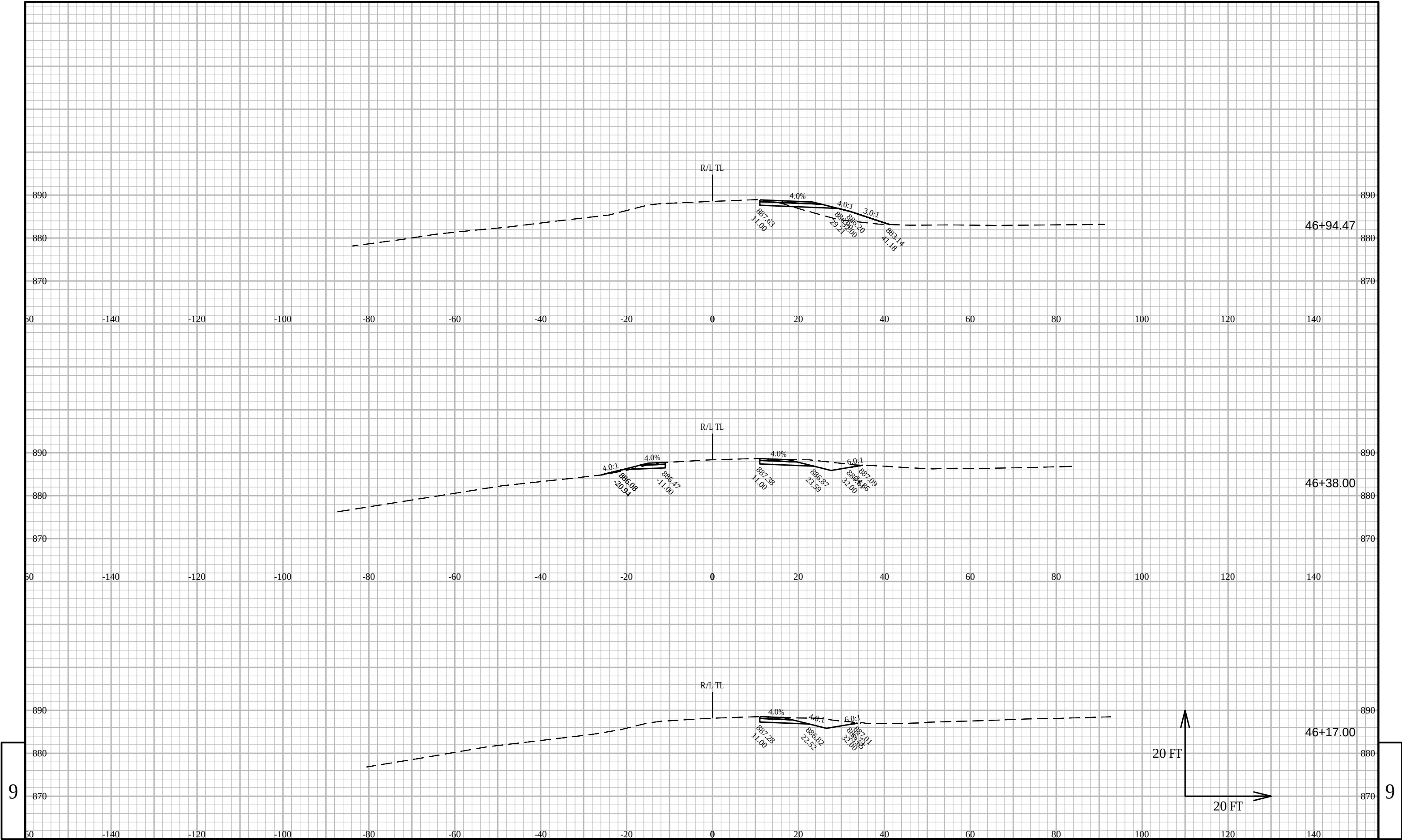
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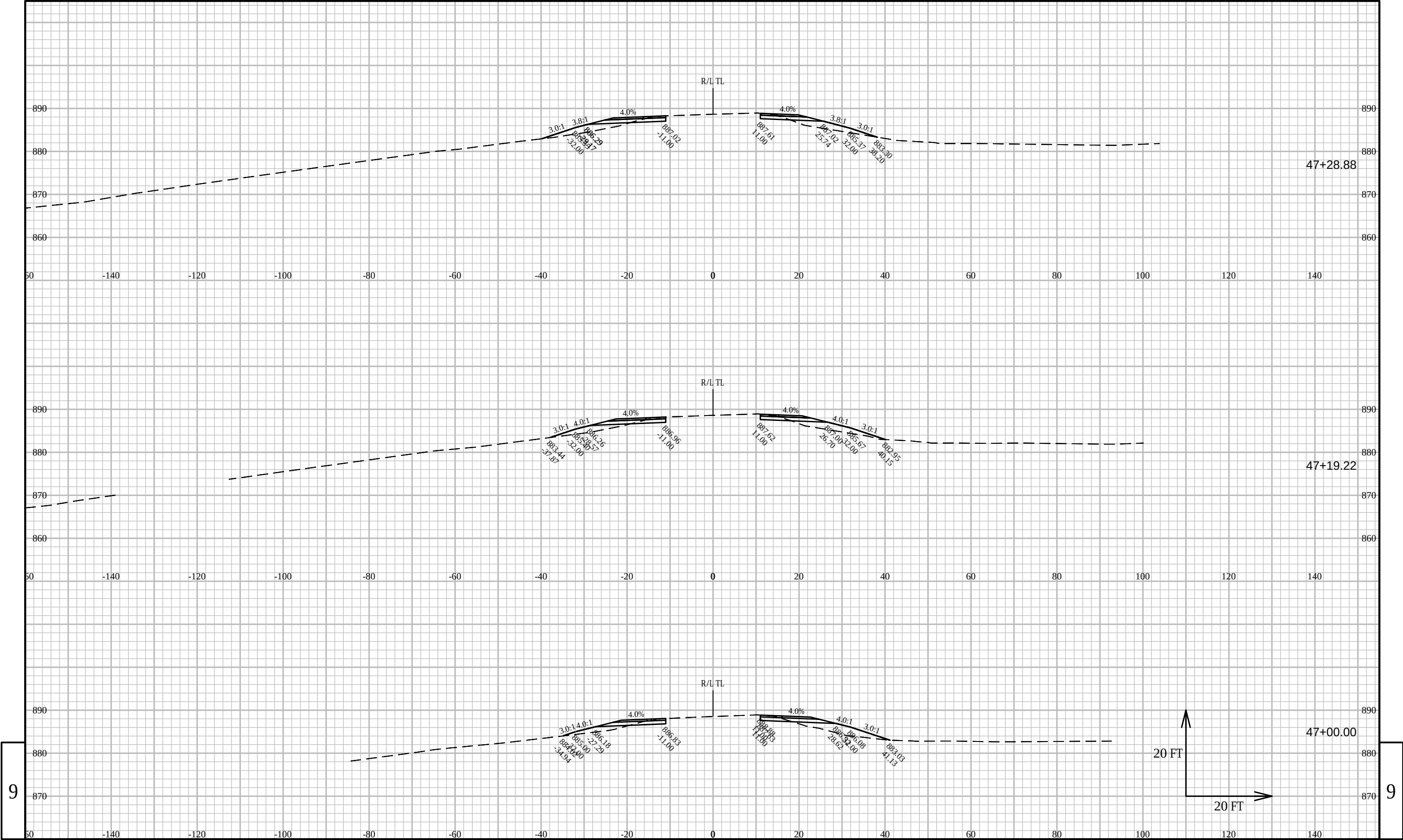
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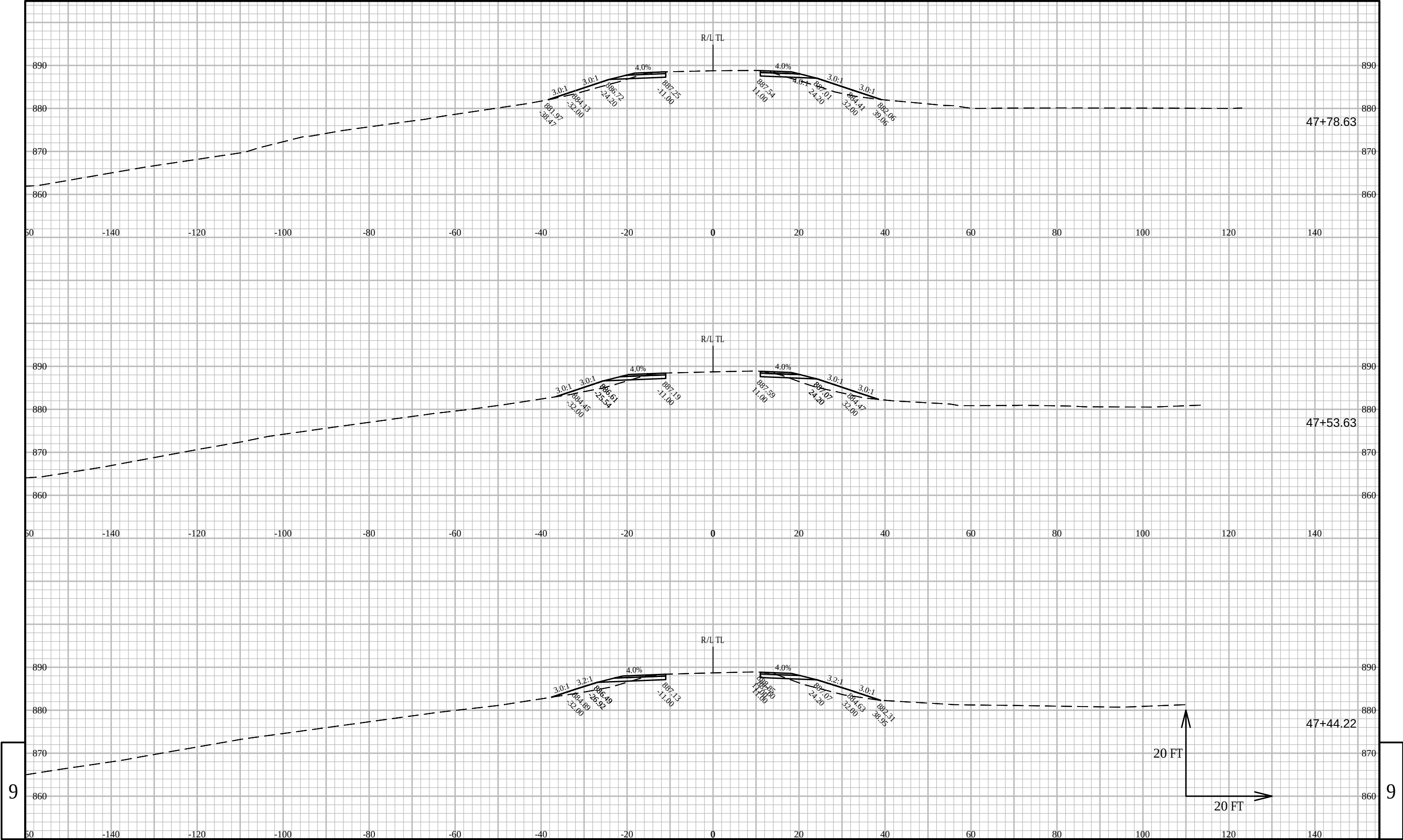
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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: TOWNLINE ROAD	SHEET PRE_184	E
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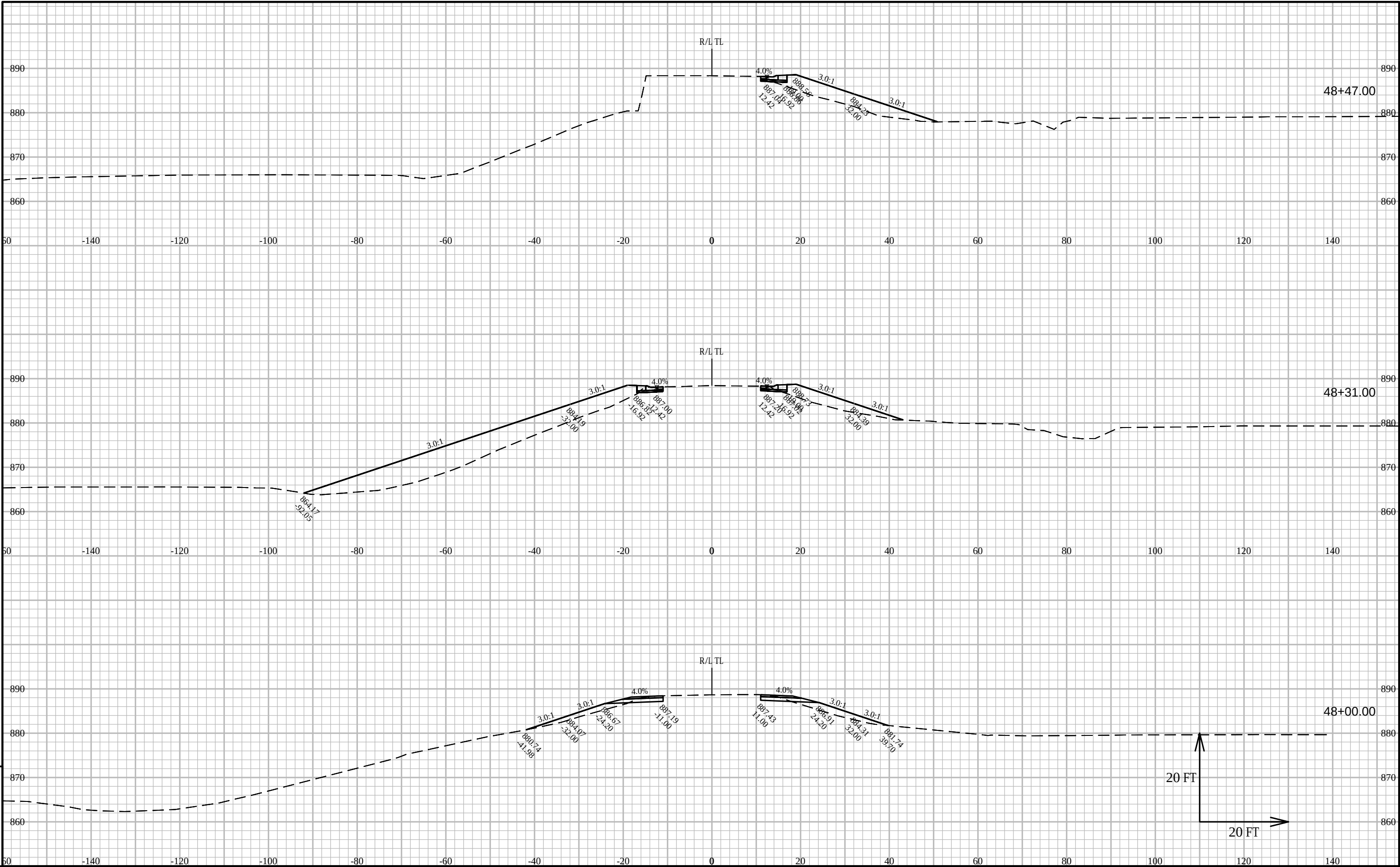
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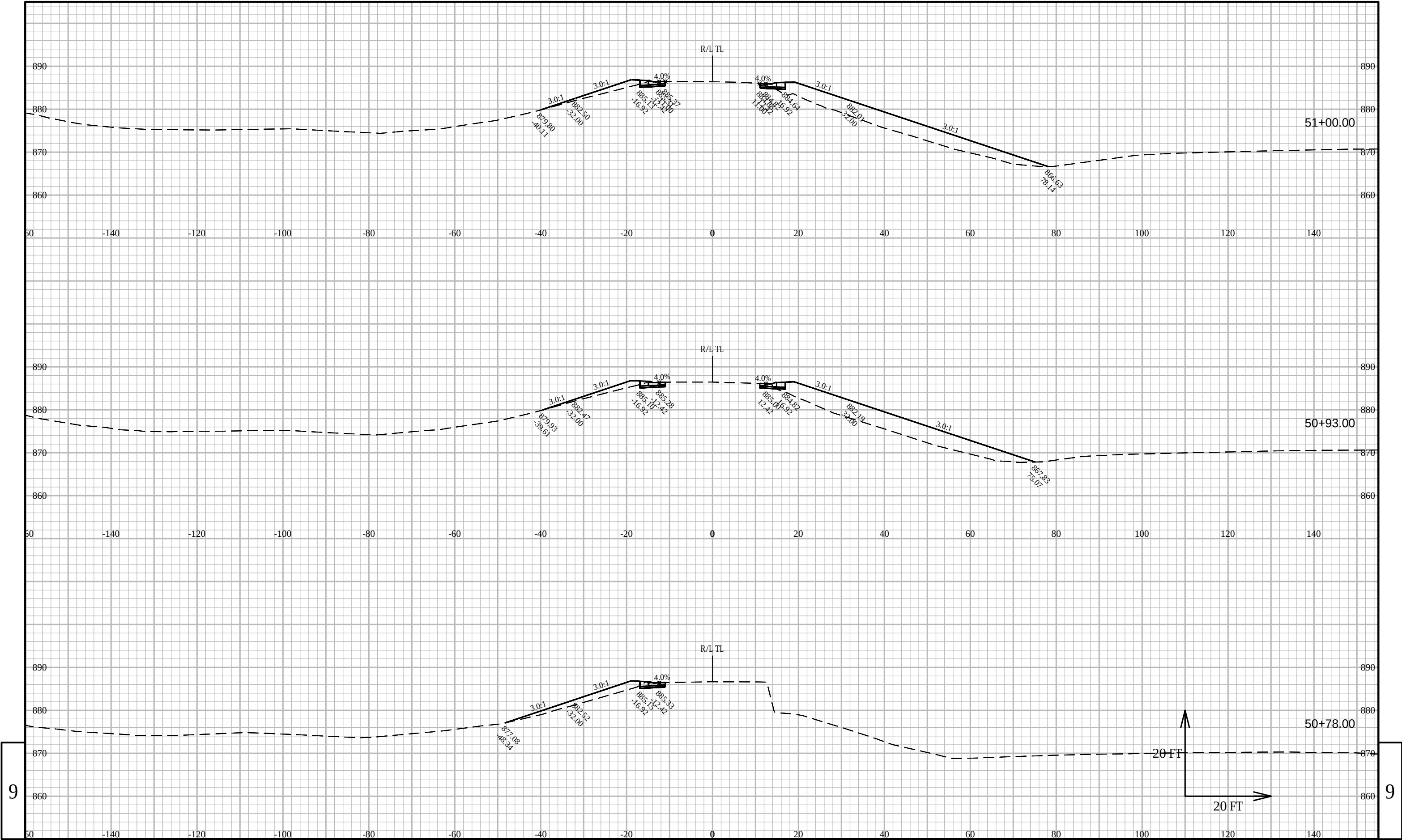


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PROJECT NO: 3839-03-73	HWY: USH 12	COUNTY: WALWORTH	CROSS SECTIONS: TOWNLINE ROAD	SHEET PRE_186	E
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