PROJECT ID: WITH:

1228-22-71

COUNTY:

MILWAUKEE

ORDER OF SHEETS

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

TOTAL SHEETS =



N

DESIGN DESIGNATION

A.A.D.T.	2023	=	130,500
A.A.D.T.	2043	=	144,200
D.H.V.		=	19,755
D.D.		=	56/44
T.		=	16.7%
DESIGN SPEED		=	60 MPH
ESALS		=	54,000,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- 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) (ROCK)
- SPECIAL DITCH (LABEL)
- 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

PLAN OF PROPOSED IMPROVEMENT

NORTH SOUTH FREEWAY

CAPITOL DR-2100 FT N OF HAMPTON AVE

IH 43

MILWAUKEE COUNTY

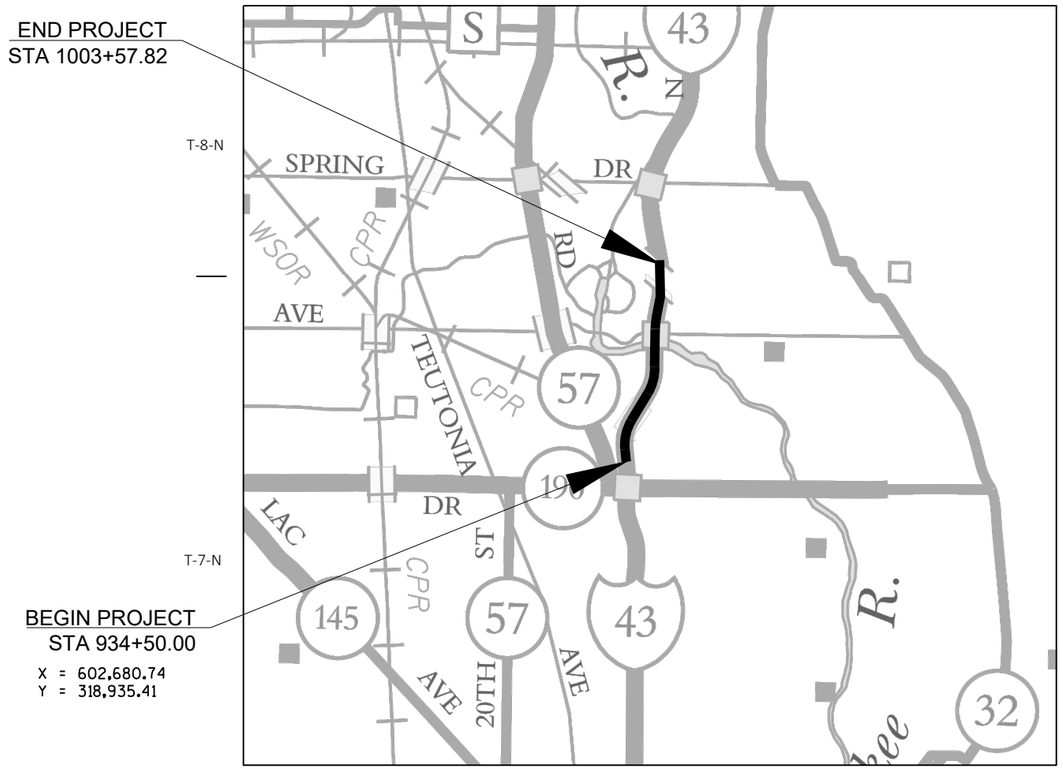
STATE PROJECT NUMBER
1228-22-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1228-22-71		

"APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS"

MARCH 5, 2020

R-22-E



LAYOUT

SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 1.308

STRUCTURES

B-40-67	B-40-1018
B-40-116	B-40-1019
B-40-1014	B-40-1020
B-40-1016	B-40-1021

NOISE WALLS

N-40-XX

RETAINING WALLS

R-40-706	R-40-711
R-40-707	R-40-712
R-40-709	R-40-713
R-40-710	

SIGN BRIDGES

S-40-3018	S-40-3021
S-40-3019	S-40-3022
S-40-3020	S-40-3023

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2007)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	WISDOT
Project Manager	DAVID PITTMAN
Regional Examiner	
Regional Supervisor	JOE GALLAMORE

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

PRE_1

E

GENERAL NOTES

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

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

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.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

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 APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS PLUS 5 FEET FOR ROUNDING.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

PROVIDE A TYPICAL SIDEWALK CROSS SLOPE OF 1.5% WITH A CONSTRUCTION TOLERANCE OF +/- 0.5%.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP MEDIUM.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH THROUGHOUT THE PROJECT.

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

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

REFER TO THE EROSION CONTROL SPECIAL PROVISIONS FOR REQUIREMENTS.

FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE SELECT CRUSHED MATERIAL LAYER IS A SUBGRADE IMPROVEMENT.

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

SAWCUT ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

PROVIDE A CONCRETE JOINT DETAIL PLAN 14 DAYS PRIOR TO PAVING FOR APPROVAL BY THE ENGINEER. 15' MAXIMUM SPACING FOR LONGITUDINAL JOINTS.

CONCRETE PAVEMENT TINING SHALL BE LONGITUDINAL.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY ENGINEER.

THERE ARE NO RUMBLE STRIPS ALLOWED IN MILWAUKEE COUNTY. DIAGONAL PAVEMENT MARKING WILL BE USED ON SHOULDERS.

EXISTING BUSINESS SIGNS LOCATED WITHIN THE TLE ARE TO REMAIN UNLESS SHOWN IN THE REMOVAL PLAN.

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

A SOIL EXPANSION FACTOR OF 1.1 WAS USED TO GENERATE ESTIMATED EARTHWORK QUANTITIES. DUE TO POTENTIAL SOIL VARIABILITY, ACTUAL QUANTITIES MAY VARY. NO QUANTITY ADJUSTMENTS WILL BE MADE FOR DIFFERING SOIL EXPANSION FACTORS ENCOUNTERED IN THE FIELD.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS *
PLAN DETAILS
PAVING GRADES*
FTMS PLANS
CONTOUR MAP
CROSS SECTION MATCHLINES
EROSION CONTROL *
STORM SEWER
STORMWATER MANAGEMENT
EXISTING UTILITY PLANS
STREETSCAPING PLANS*
EXISTING SIGNING *
PERMANENT SIGNING*
LIGHTING PLANS
TRAFFIC SIGNALS
PAVEMENT MARKING *
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOURS
FENCING*
ALIGNMENT LAYOUT

*not included in the utility relocation plans

STANDARD ABBREVIATIONS

AC	ACRES
BLK	BLOCK
BM	BENCHMARK
C/L	CENTERLINE
CONC	CONCRETE
D	LANE DISTRIBUTION
DHV	DESIGN HOURLY VOLUME
DIM	DIMENSION
EB	EASTBOUND
EL	ELEVATION
HMA	HOT MIX ASPHALT
L	LENGTH
LT	LEFT
LC	LONG CHORD
MAX	MAXIMUM
MIN	MINIMUM
MON	MONUMENT
NB	NORTHBOUND
NORM	NORMAL
P	PAGE
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
PP	POWER POLE
PL	PROPERTY LINE
R	RADIUS
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SEC	SECTION
SF	SQUARE FOOT
SI	SLOPE INTERCEPT
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
WB	WESTBOUND
V	DESIGN SPEED

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 SMA 58-28 H 3 HT 58-28 S	4"	1 ¾" UPPER LAYER 2 ¼" LOWER LAYER

A

UTILITY CONTACTS

JENNIFER NAVARRO (PRIMARY CONTACT)
AT&T LOCAL NETWORK - COMMUNICATION LINE
6070 N FLINT RD
GLENDALE, WI 53209
(414) 459-3564
J.NAVARRO@NORTHWINDTECH.COM

JAY BULANEK (PRIMARY CONTACT)
AT&T WISCONSIN - COMMUNICATION LINE
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
(262) 896-7669
JB5175@ATT.COM

ANTHONY MARCINIAK (1078 CONTACT)
ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
W 234 N 2000 RIDGEVIEW PARKWAY CT
P.O. BOX 47
WAUKESHA, WI 53187-0047
(262) 506-6814
AMARCINIAK@ATCLLC.COM

GENERAL MAILBOX CENTURYLINK NATIONAL OSP RELOC (PRIMARY CONTACT)
CENTURYLINK COMMUNICATIONS, LLC - COMMUNICATION LINE
CENTURYLINKNATIONALOSPRELOCATIONS @CENTURYLINK.COM

BEAU ABUYA (PRIMARY CONTACT)
CHARTER COMMUNICATIONS - COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
(414) 908-1343
WIS.ENGINEERING@CHARTER.COM

CHARLIE IMIG (PRIMARY CONTACT)
CITY OF GLENDALE - SEWER
5909 N MILWAUKEE RIVER PARKWAY
GLENDALE, WI 53209
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C.IMIG@GLENDALE-WI.GOV

CHARLIE IMIG (PRIMARY CONTACT)
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C.IMIG@GLENDALE-WI.GOV

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RTRGOVEC@MIDWESTFIBERNETWORKS.COM

MICKI KLAPPA-SULLIVAN (PRIMARY CONTACT)
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER
260 W SEEBOTH ST
MILWAUKEE, WI 53204
(414) 225-2178
MKLAPPASULLIVAN@MMSD.COM

JEFF MADSON (PRIMARY CONTACT)
WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATION LINE
STE. 300
433 W. ST. PAUL AVE.
MILWAUKEE, WI 53203-3007
(414) 225-3723
JEFFREY.MADSON@DOT.WI.GOV

ERIC PEREA (PRIMARY CONTACT)
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DERRIN.WOLFORD@DOT.WI.GOV

WE ENERGIES UTILITY COORDINATOR (PRIMARY CONTACT)
WE ENERGIES - ELECTRICITY

WE ENERGIES UTILITY COORDINATOR (PRIMARY CONTACT)
WE ENERGIES - GAS/PETROLEUM

MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS)

MELANIE FLYNN
COORDINATOR OF STREET SUPERVISION (ROUTES)
1942 N 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1764
MFLYNN@MCTS.ORG

ANDY TILLMAN
TRANSIT PLANNER (STOPS)
1942 N 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1728
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DAVID LOCHER
TRANSPORTATION SPECIALIST
1942 N 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1727
DLOCHER@MCTS.ORG

MILWAUKEE COUNTY SHERIFF

COLIN BRIGGS, CAPTAIN
PATROL DIVISION - COMMANDER
10320 W. WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
OFFICE: (414) 454-4084
CELL: (414) 659-4275
COLIN.BRIGGS@MILWAUKEECOUNTYWI.GOV

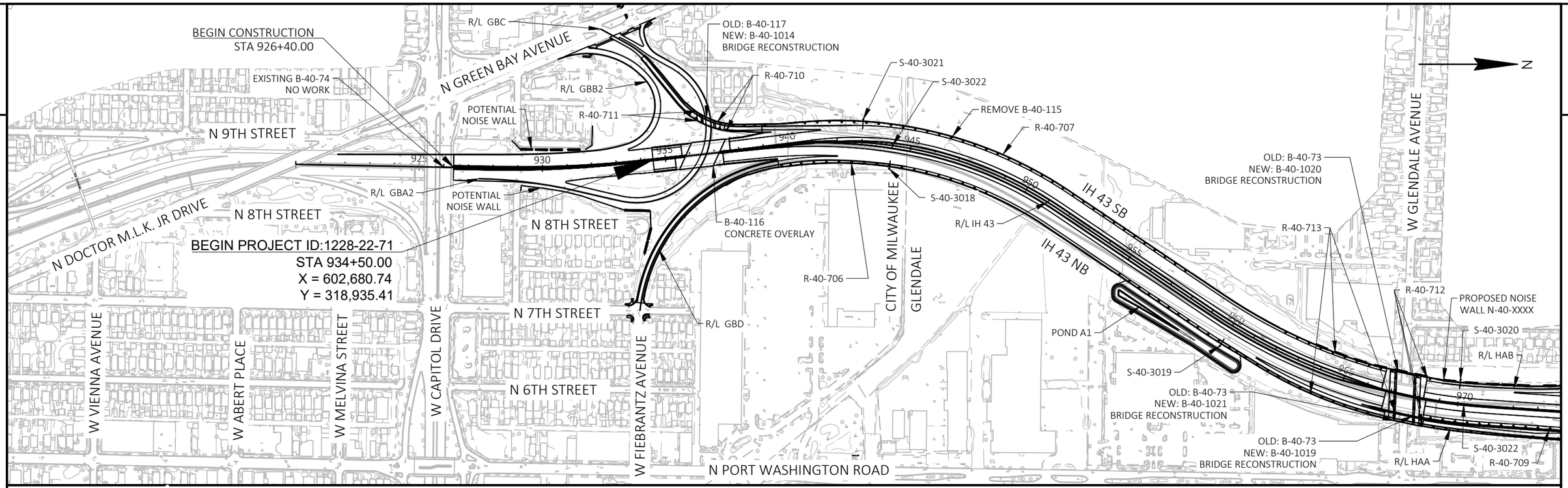
OTHER CONTACTS

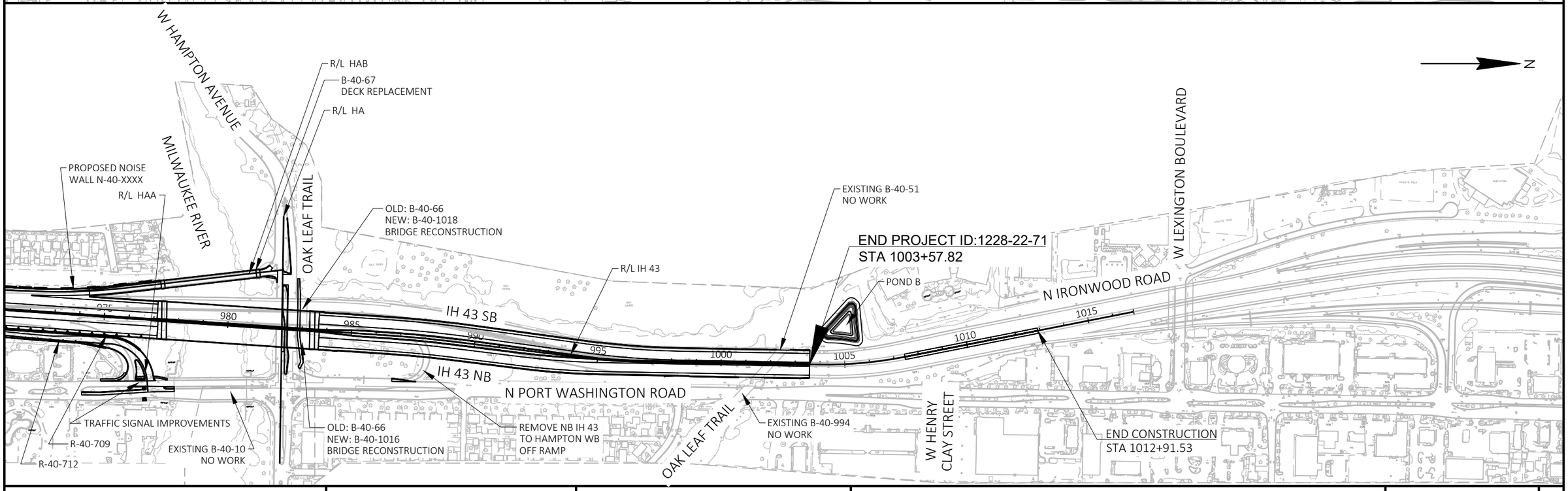
WISDOT DESIGN
DAVID PITTMAN, PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6439
DAVID.PITTMAN@DOT.WI.GOV

WISCONSIN DNR
KRISTINA BETZOLD
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PHONE: (414) 263-8517
KRISTINA.BETZOLD@WISCONSIN.GOV

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

2



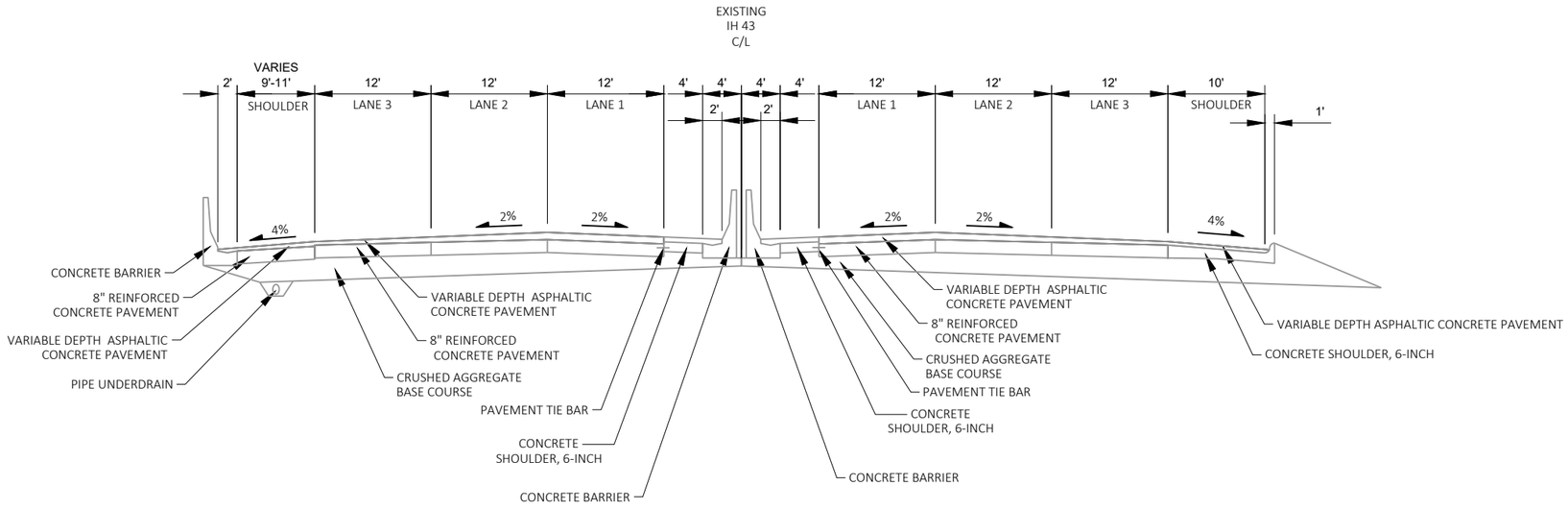


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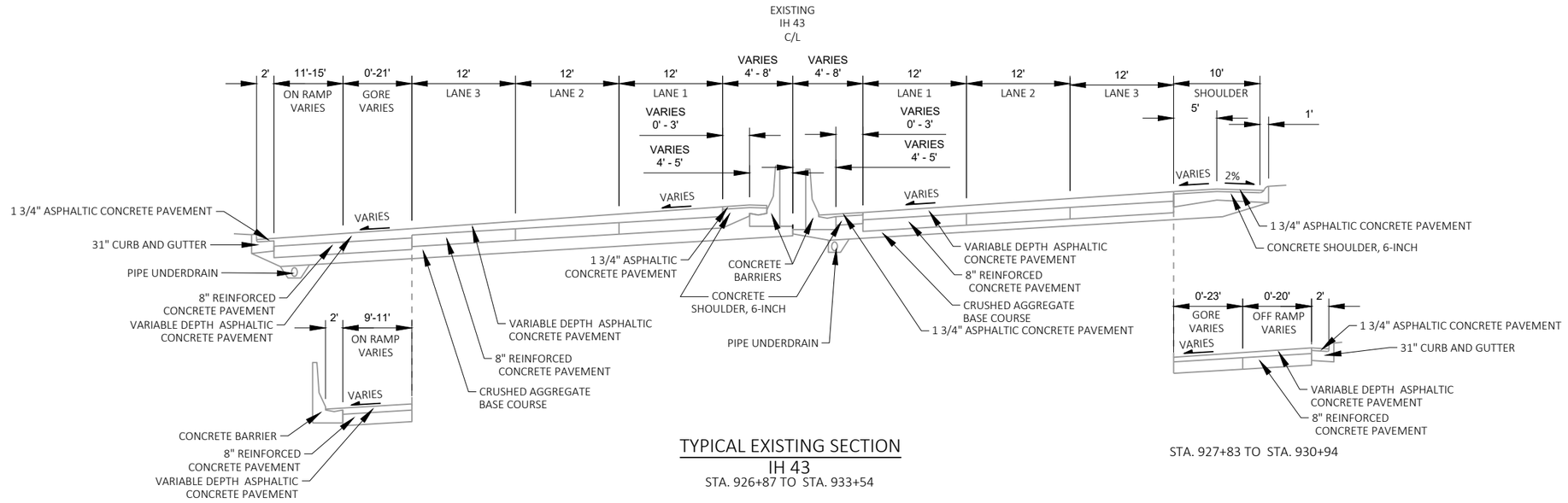
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PLOT BY : JELACIC, JOSEPH C
PLOT NAME :
PLOT SCALE : 1 IN: 400 FT
WISDOT/CADDS SHEET 44

2



TYPICAL EXISTING SECTION
IH 43
STA. 926+40 TO STA. 926+87



STA. 926+87 TO STA. 927+92

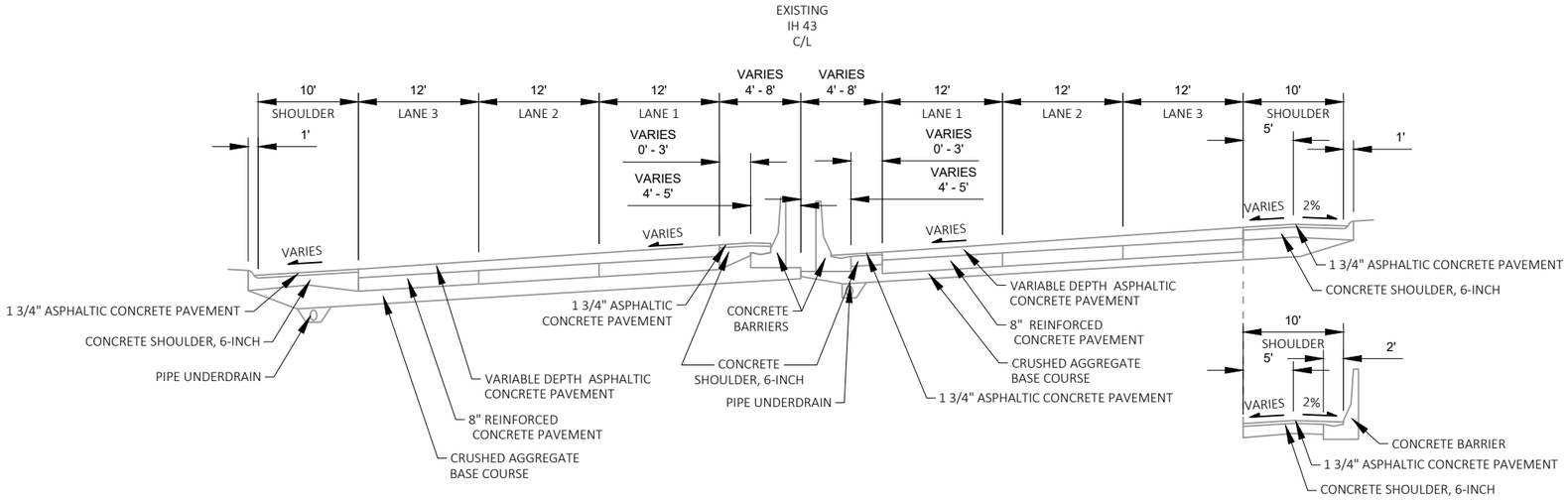
TYPICAL EXISTING SECTION
IH 43
STA. 926+87 TO STA. 933+54

STA. 927+83 TO STA. 930+94

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_5 E

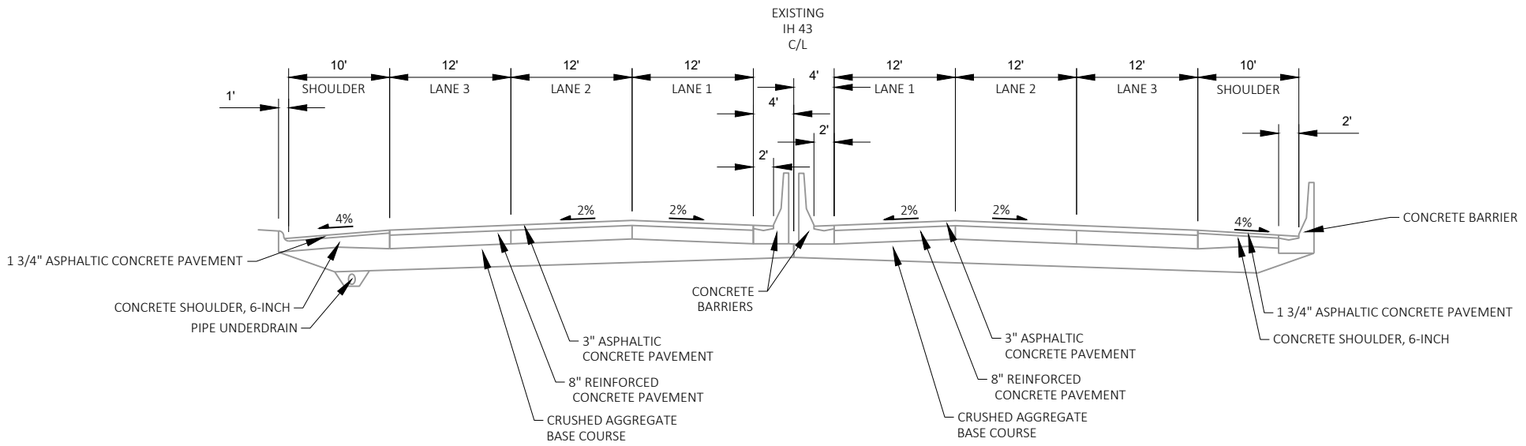
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TYPICAL EXISTING SECTION
IH 43
STA. 933+54 TO STA. 934+92

STA. 933+93 TO STA. 934+92

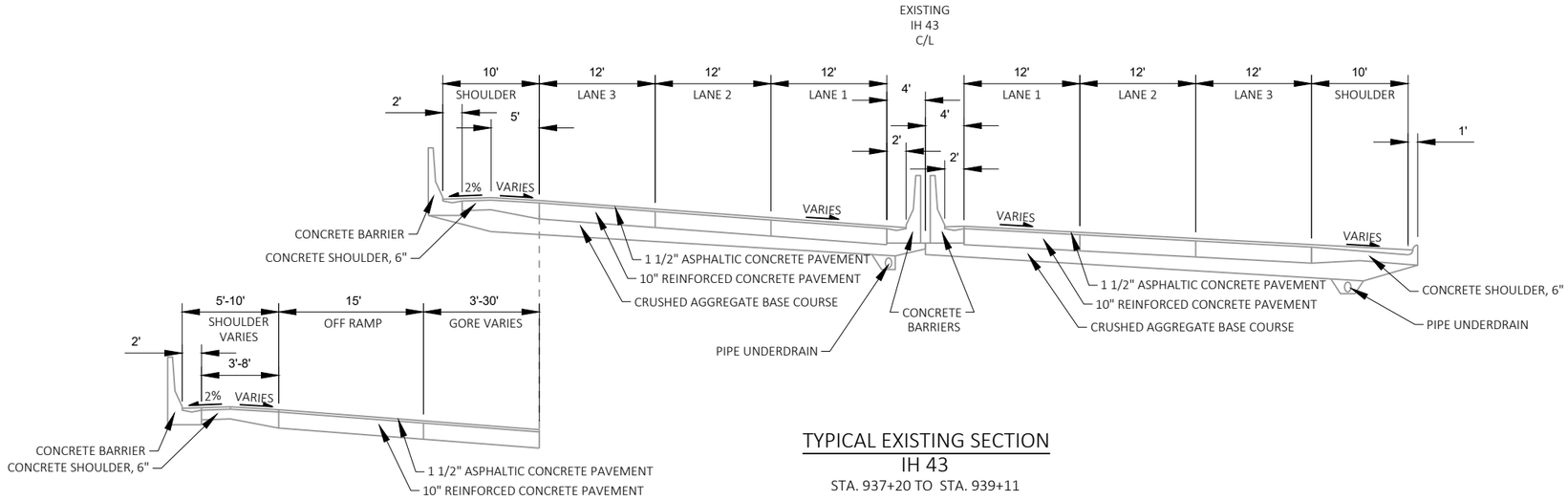


TYPICAL EXISTING SECTION
IH 43
STA. 934+92 TO STA. 935+83

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_6 E

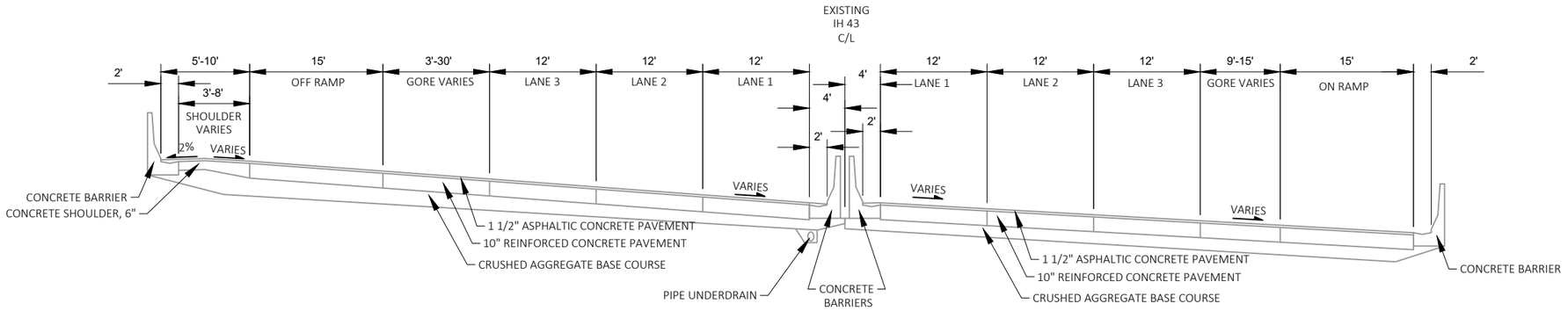
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2



STA. 938+59 TO STA. 939+11

TYPICAL EXISTING SECTION
IH 43
STA. 937+20 TO STA. 939+11



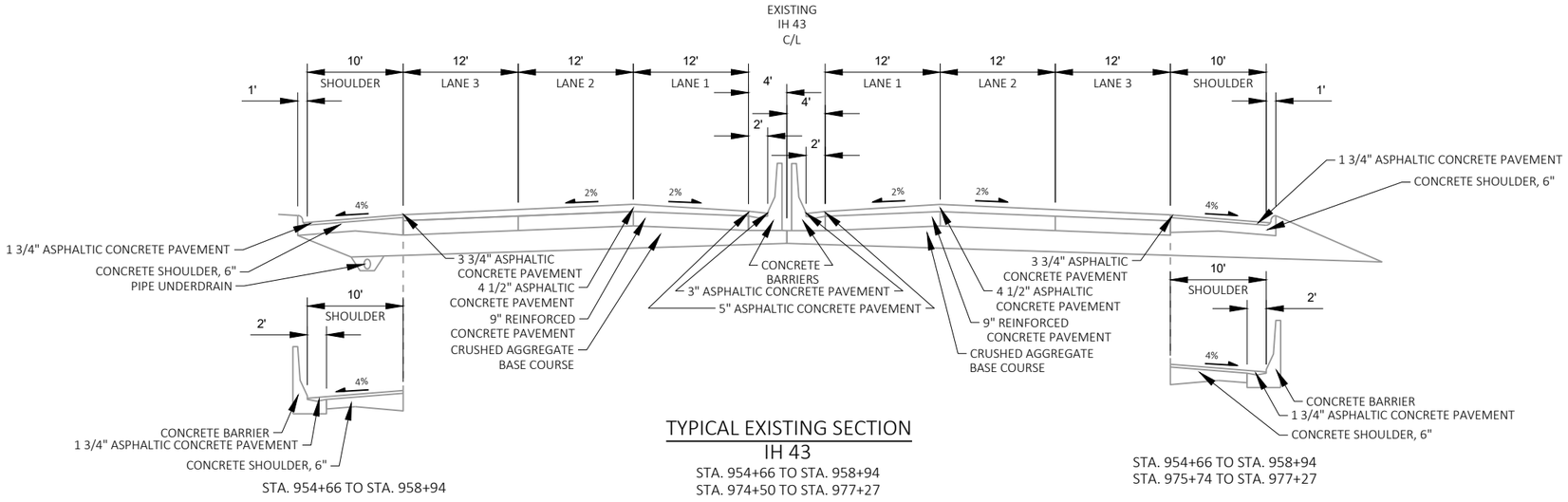
TYPICAL EXISTING SECTION
IH 43
STA. 939+11 TO STA. 940+00

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_7

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PLOT NAME :
PLOT SCALE : 1 IN:15 FT
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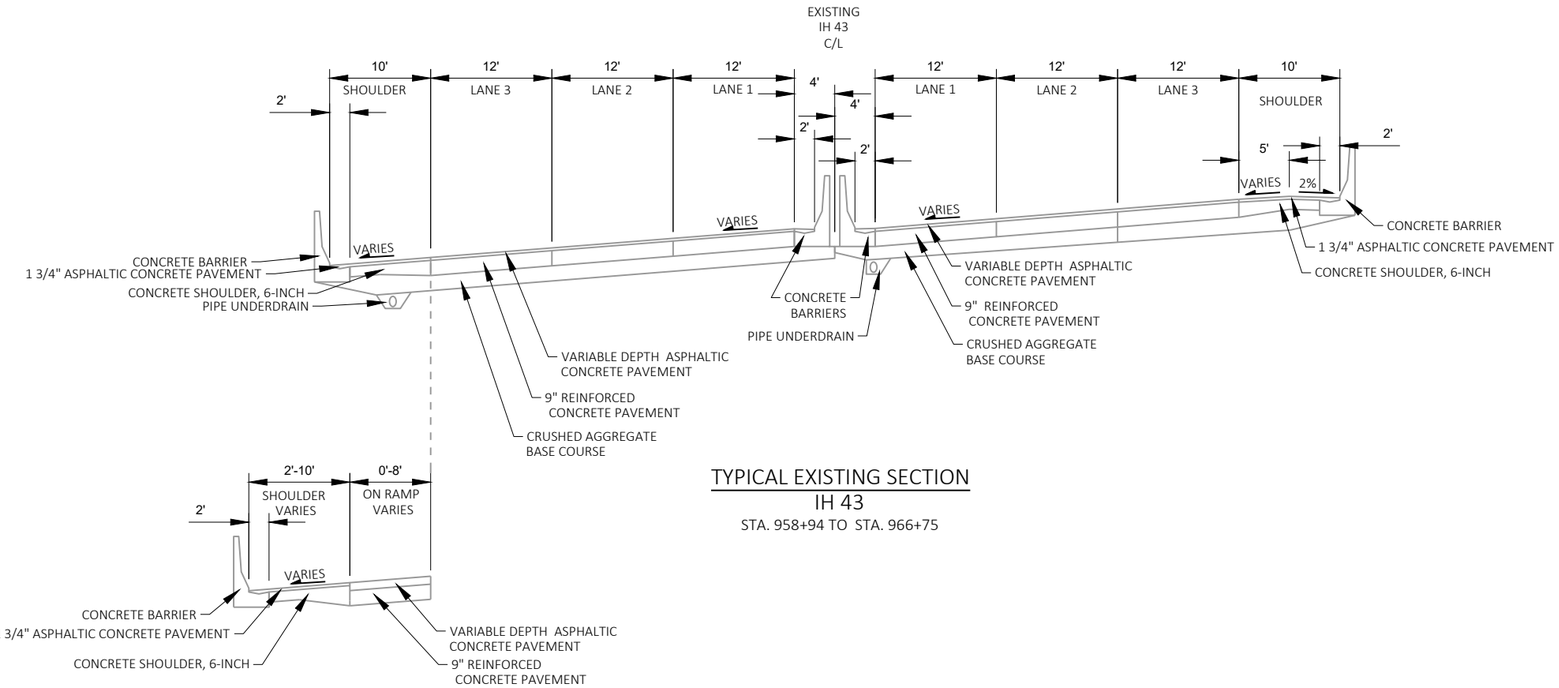
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TYPICAL EXISTING SECTION
IH 43

STA. 954+66 TO STA. 958+94
STA. 974+50 TO STA. 977+27

STA. 954+66 TO STA. 958+94
STA. 975+74 TO STA. 977+27



TYPICAL EXISTING SECTION
IH 43

STA. 958+94 TO STA. 966+75

STA. 963+24 TO STA. 966+75

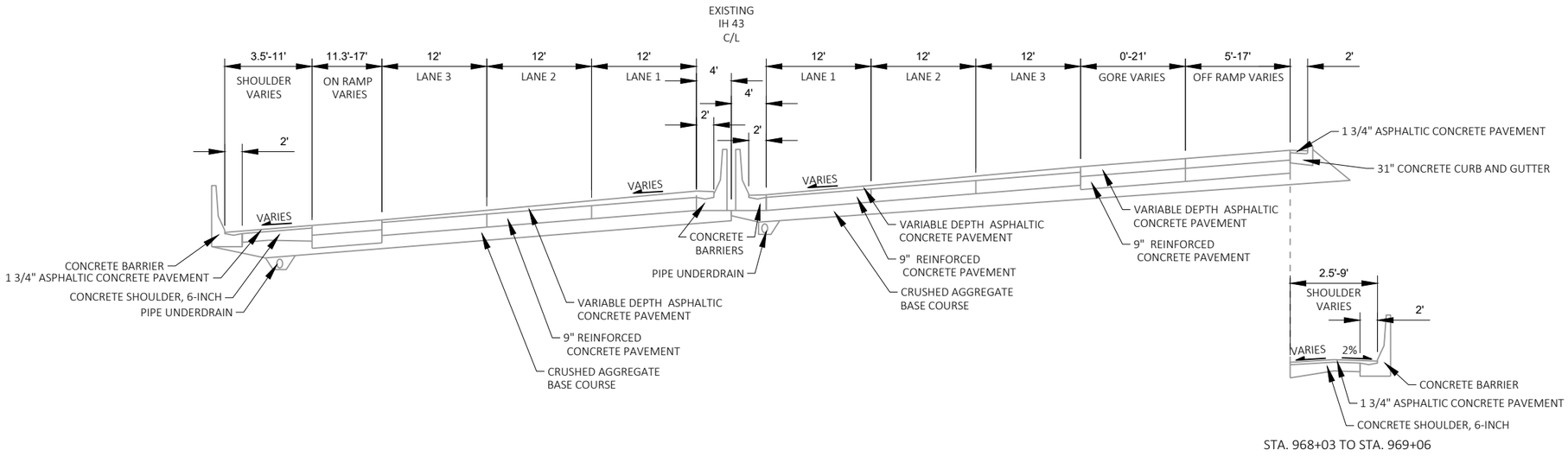
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_8

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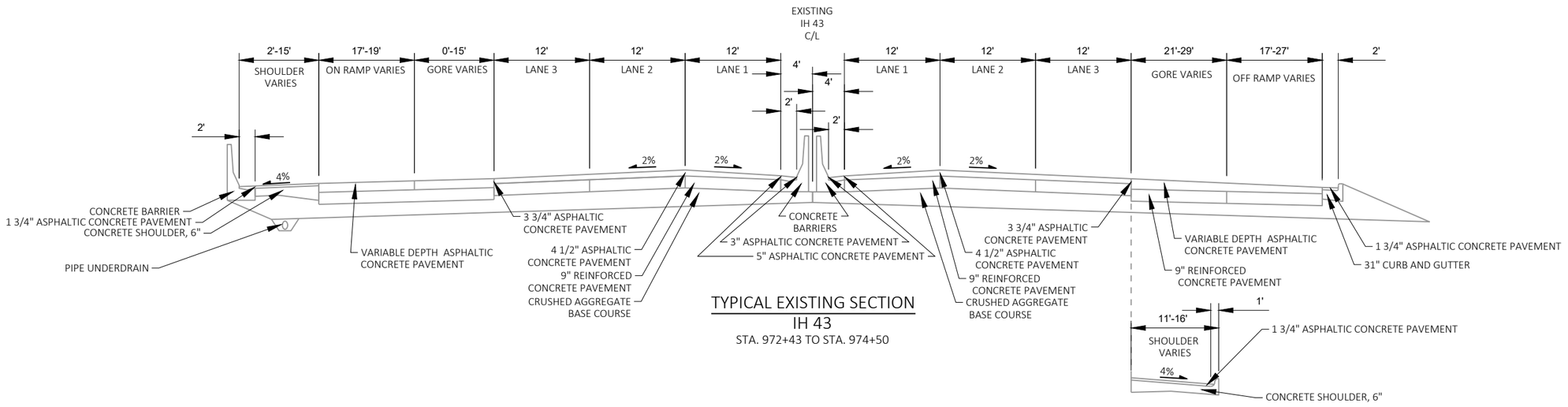
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2



STA. 968+03 TO STA. 969+06

TYPICAL EXISTING SECTION
IH 43
STA 968+03 TO STA. 972+43



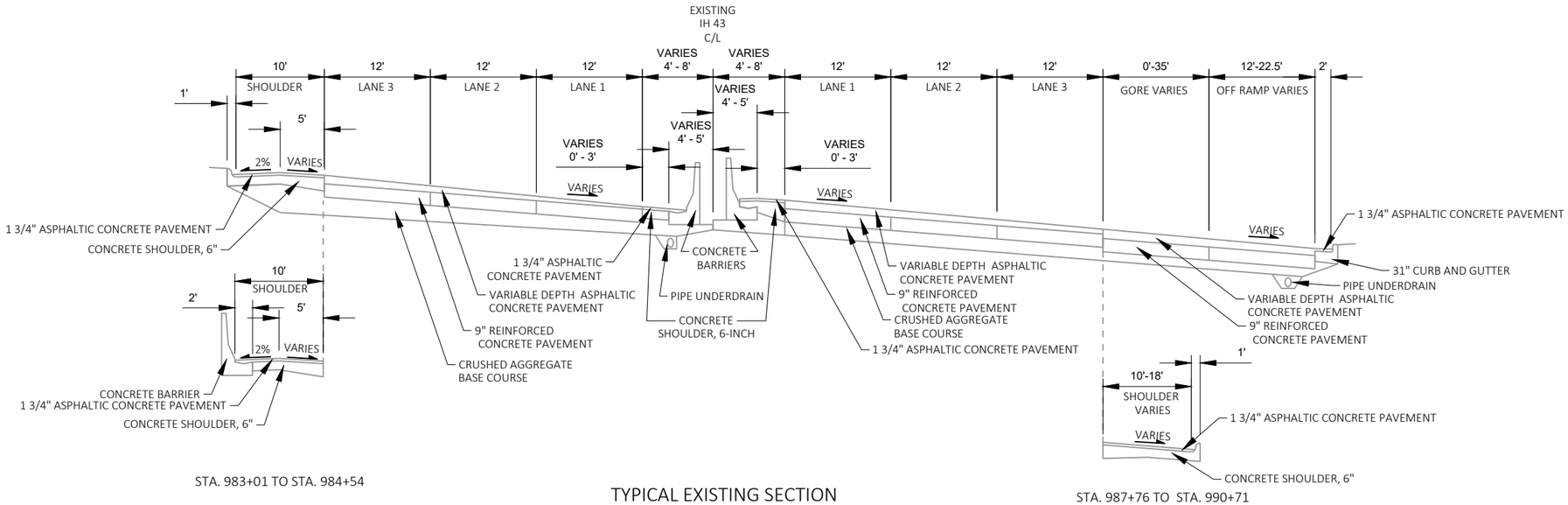
TYPICAL EXISTING SECTION
IH 43
STA. 972+43 TO STA. 974+50

STA. 973+48 TO STA. 974+50

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_9 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020305-ts
PLOT DATE : 3/5/2020 11:13 AM
PLOT BY : JELACIC, JOSEPH C
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

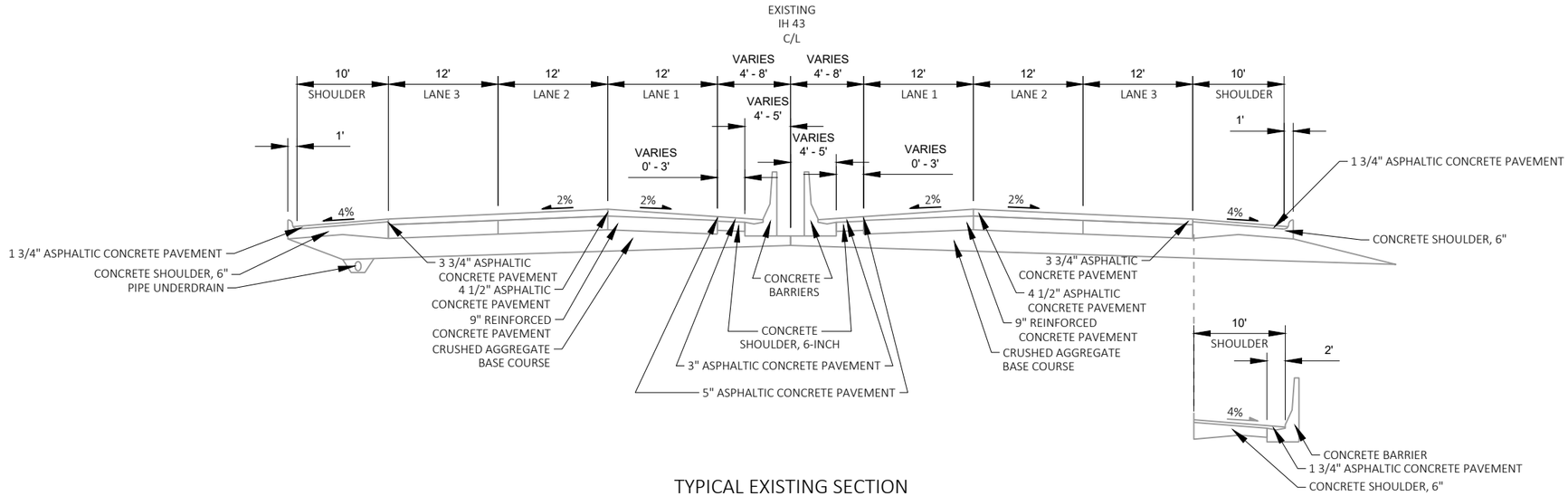
2



STA. 983+01 TO STA. 984+54

STA. 987+76 TO STA. 990+71

TYPICAL EXISTING SECTION
IH 43
STA. 983+01 TO STA. 990+71



TYPICAL EXISTING SECTION
IH 43
STA. 990+71 TO STA. 991+46
STA. 999+71 TO STA. 1001+46

STA. 999+71 TO STA. 1001+46

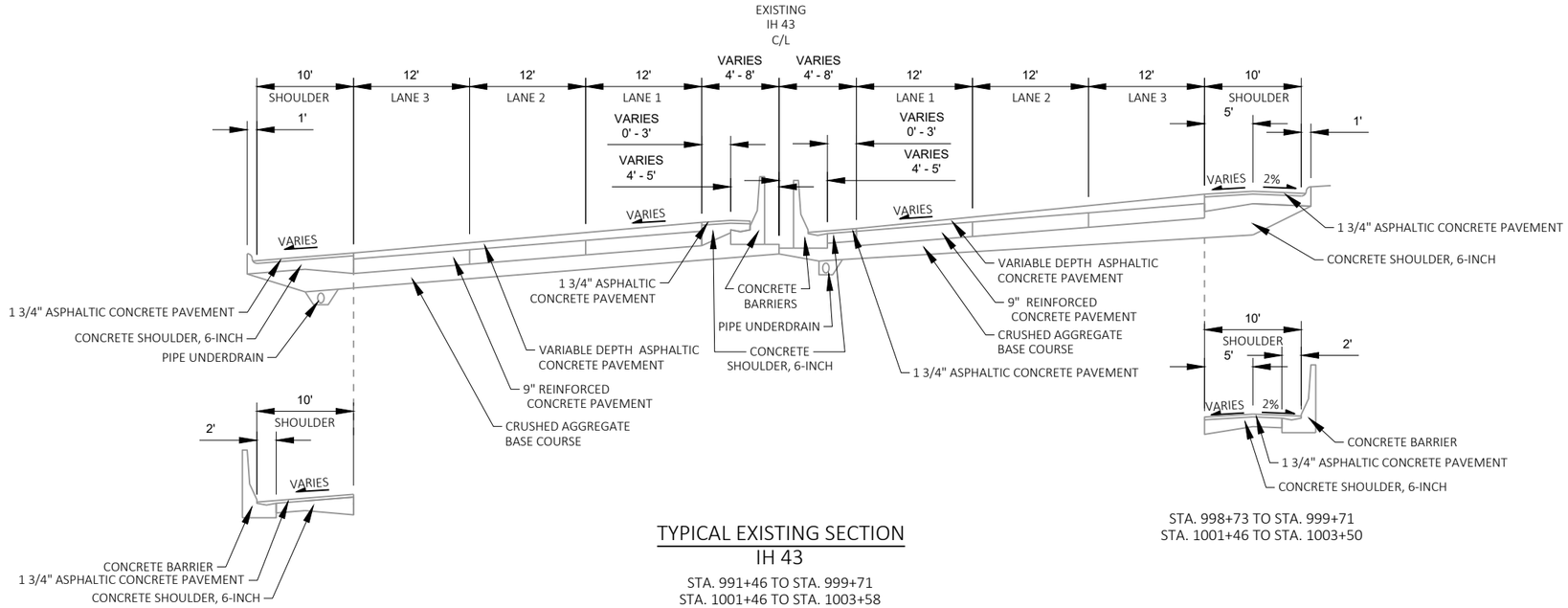
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_10

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020306-ts

PLOT DATE : 3/5/2020 11:13 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2

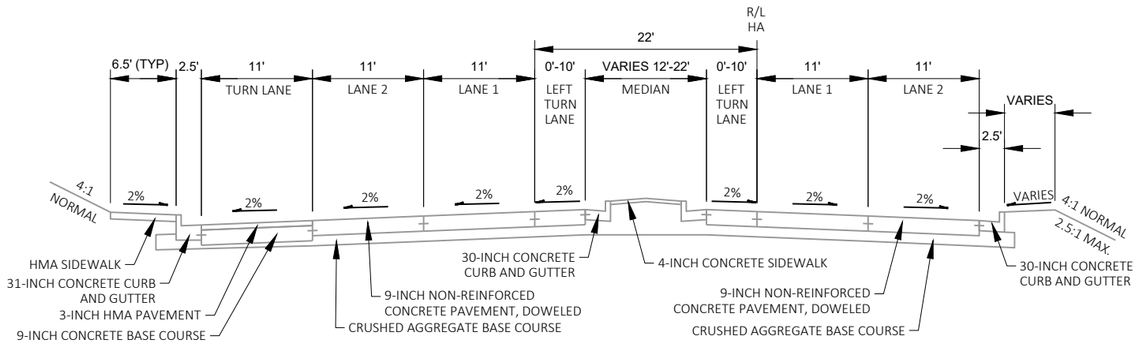


STA. 1002+88 TO STA. 1003+50

TYPICAL EXISTING SECTION
IH 43

STA. 991+46 TO STA. 999+71
STA. 1001+46 TO STA. 1003+58

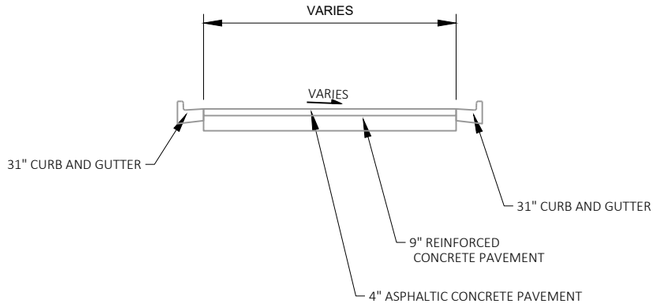
STA. 998+73 TO STA. 999+71
STA. 1001+46 TO STA. 1003+50



TYPICAL EXISTING SECTION
HAMPTON AVE
UNDER B-40-1016 AND B-40-1018

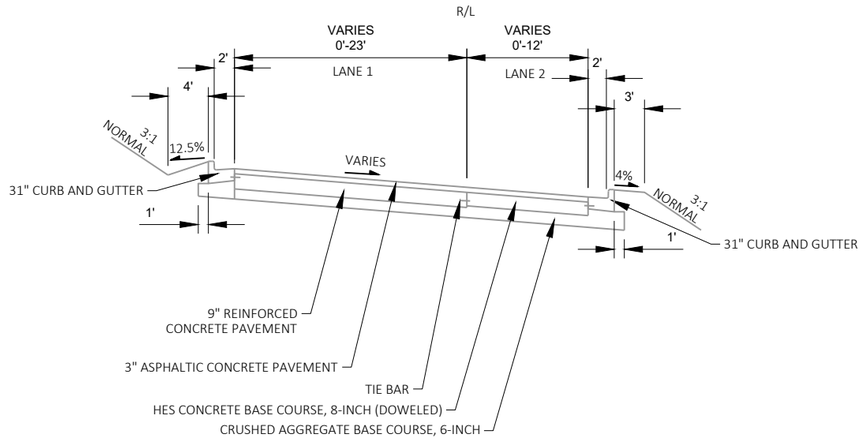
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_11 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020307-ts
PLOT DATE : 3/5/2020 11:13 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT



TYPICAL EXISTING SECTION

RAMP GBA2 (25.5' MAX WIDTH)
RAMP GBD (19.8' MAX WIDTH)
RAMP GBB2 (27.6' MAX WIDTH)
RAMP GBC (25' MAX WIDTH)
RAMP HAB (23.8' MAX WIDTH)

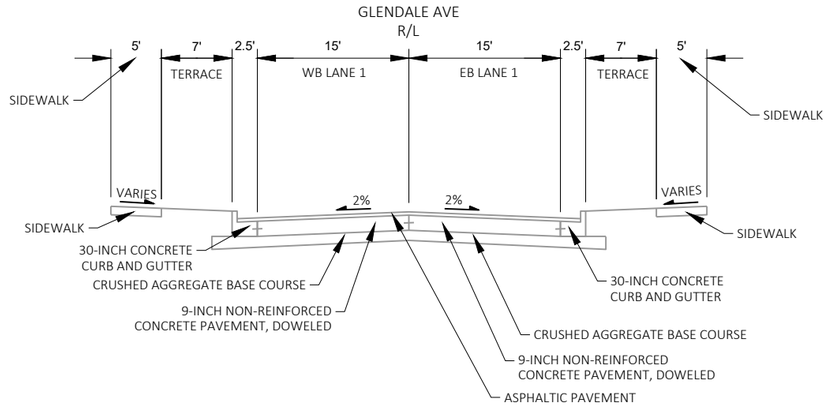


TYPICAL EXISTING SECTION

RAMP HAA

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

2



TYPICAL EXISTING SECTION
GLENDALE AVE
STA. 0+05 TO STA. 5+47

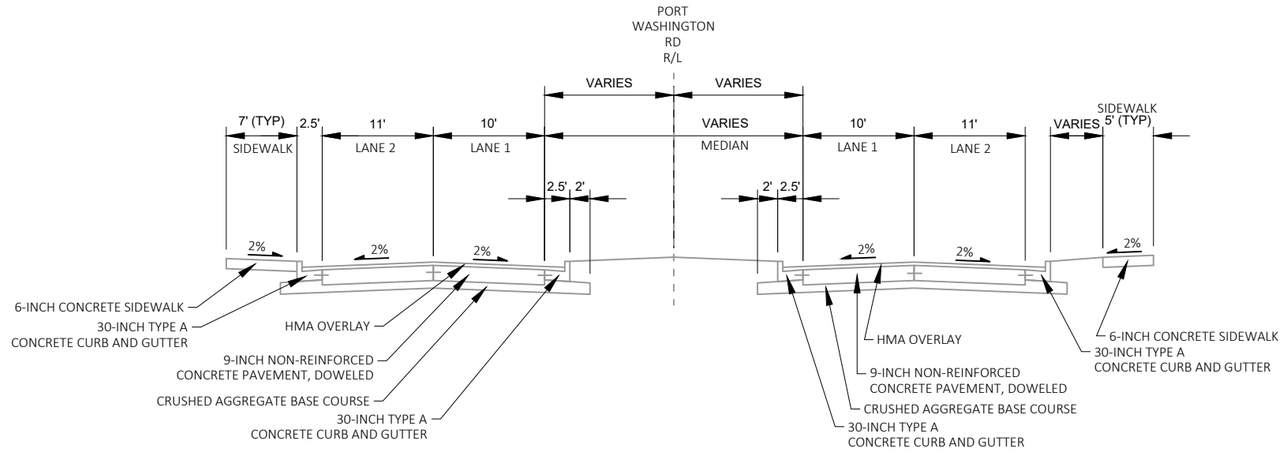
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_13

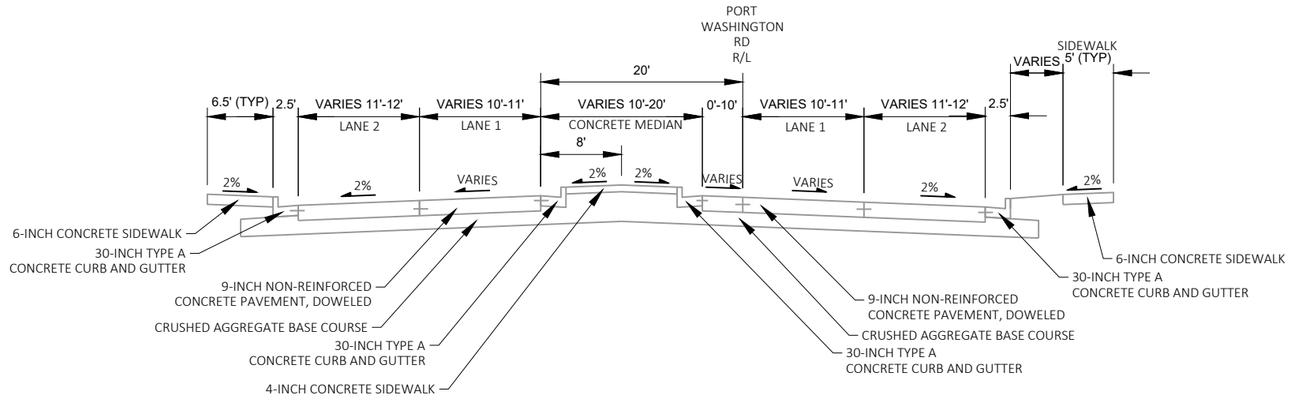
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020328-ts

PLOT DATE : 3/5/2020 11:13 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL EXISTING SECTION
PORT WASHINGTON RD
STA. 97+50 TO STA. 99+85



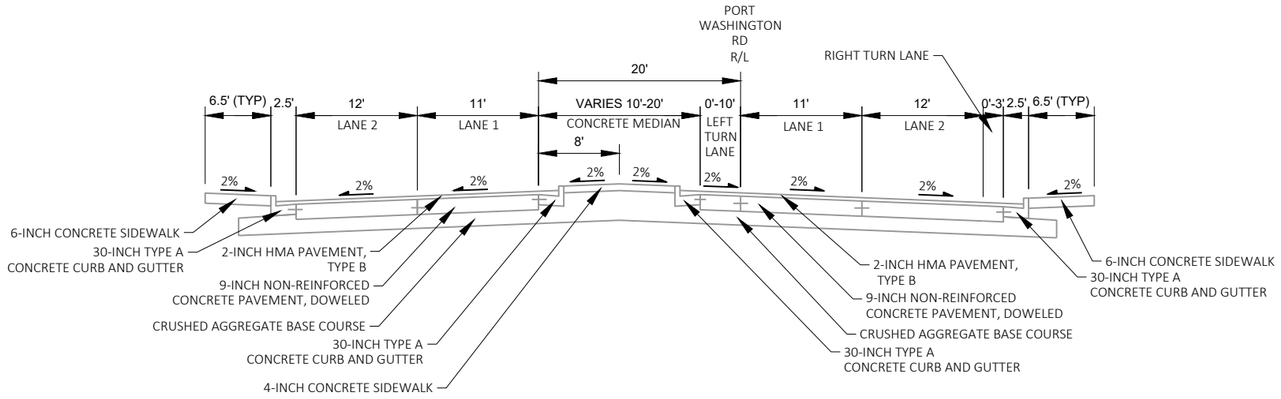
TYPICAL EXISTING SECTION
PORT WASHINGTON RD
STA. 99+85 TO STA. 100+99

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_14 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020329-ts

PLOT DATE : 3/5/2020 11:13 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL EXISTING SECTION
PORT WASHINGTON RD
STA. 100+99 TO SOUTHERN ABUTMENT B-40-0010

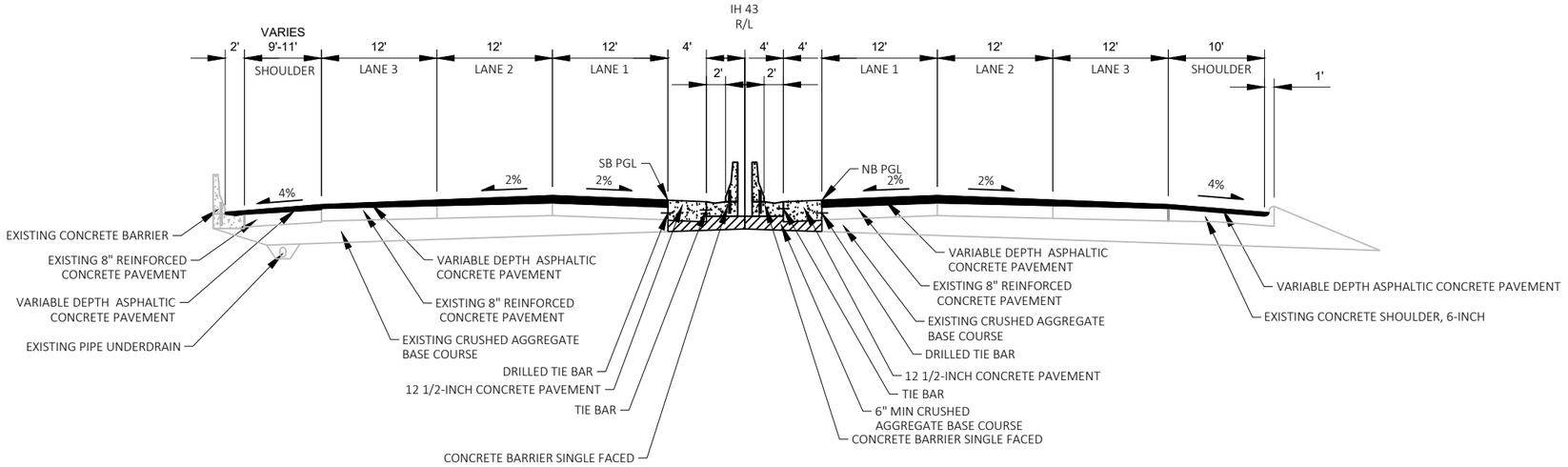
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_15

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020301-TS.DWG
LAYOUT NAME - 020330-ts

PLOT DATE : 3/5/2020 11:13 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL FINISHED SECTION

IH 43

STA. 926+40 TO STA. 926+87

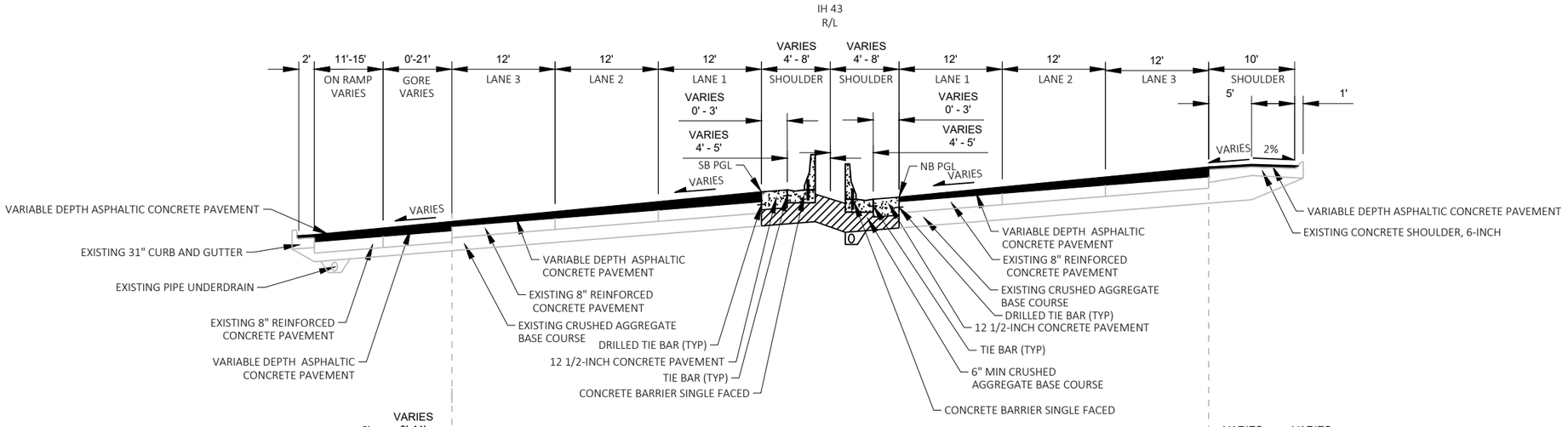
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_16

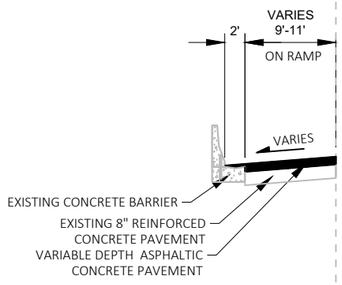
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020401-ts

PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

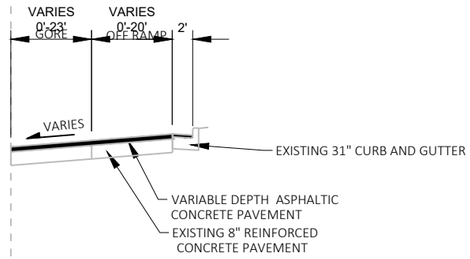
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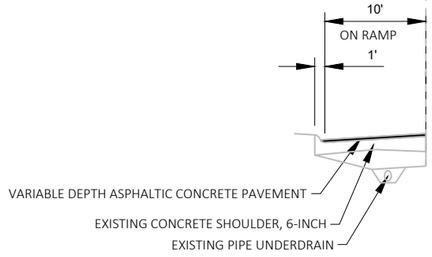
TYPICAL FINISHED SECTION
IH 43
STA. 926+87 TO STA. 934+50



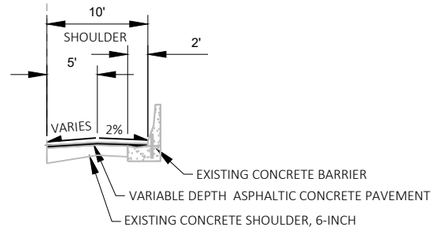
STA. 926+87 TO STA. 927+92



STA. 927+83 TO STA. 930+94



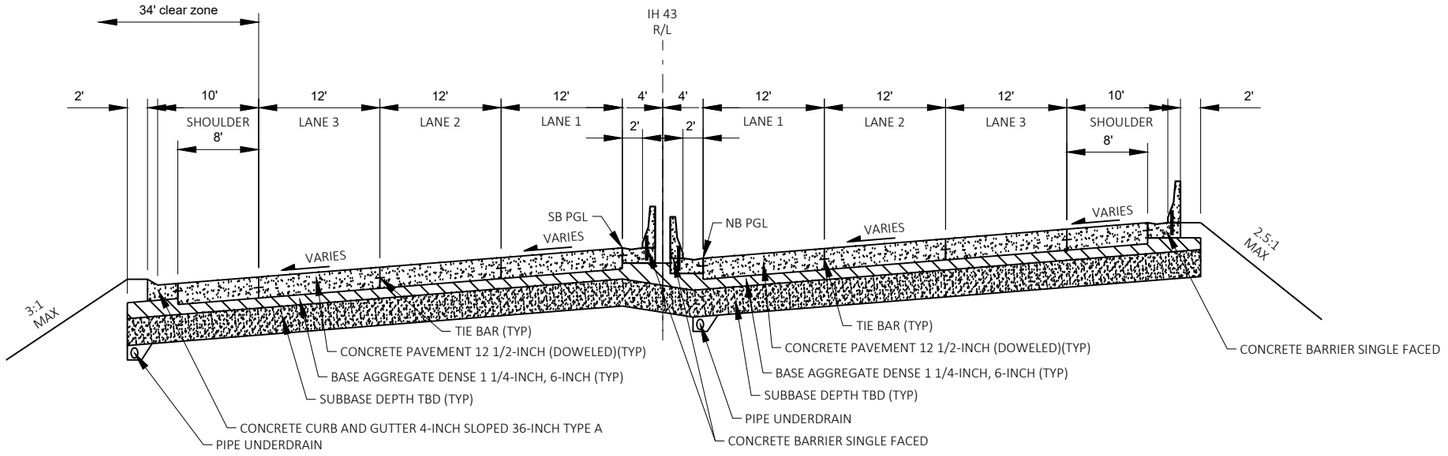
STA. 933+54 TO STA. 934+50



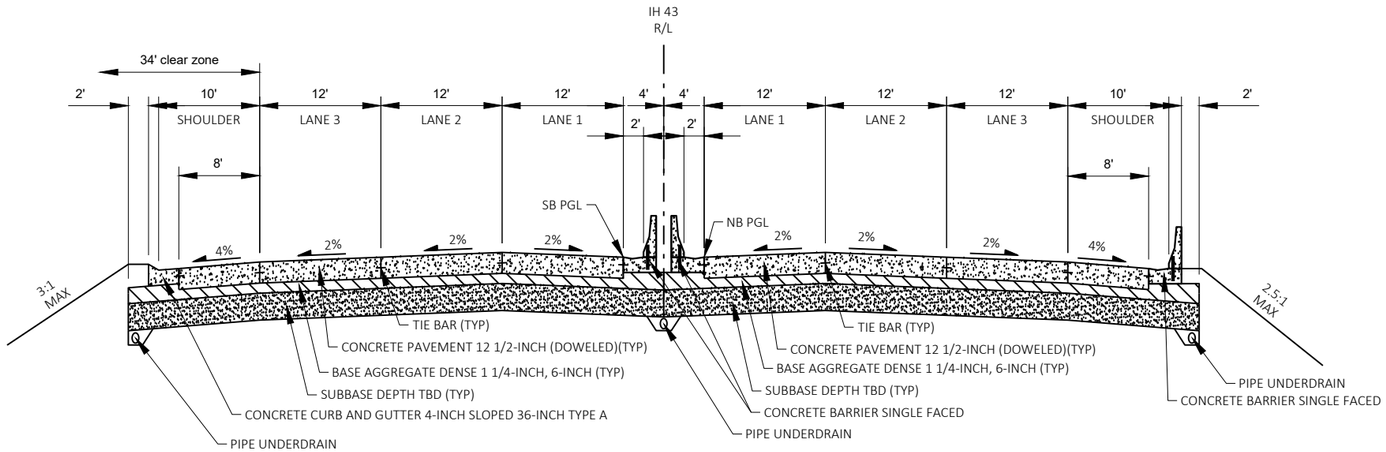
STA. 933+93 TO STA. 934+50

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

2



TYPICAL FINISHED SECTION
IH 43
STA. 934+50 TO STA. 934+97

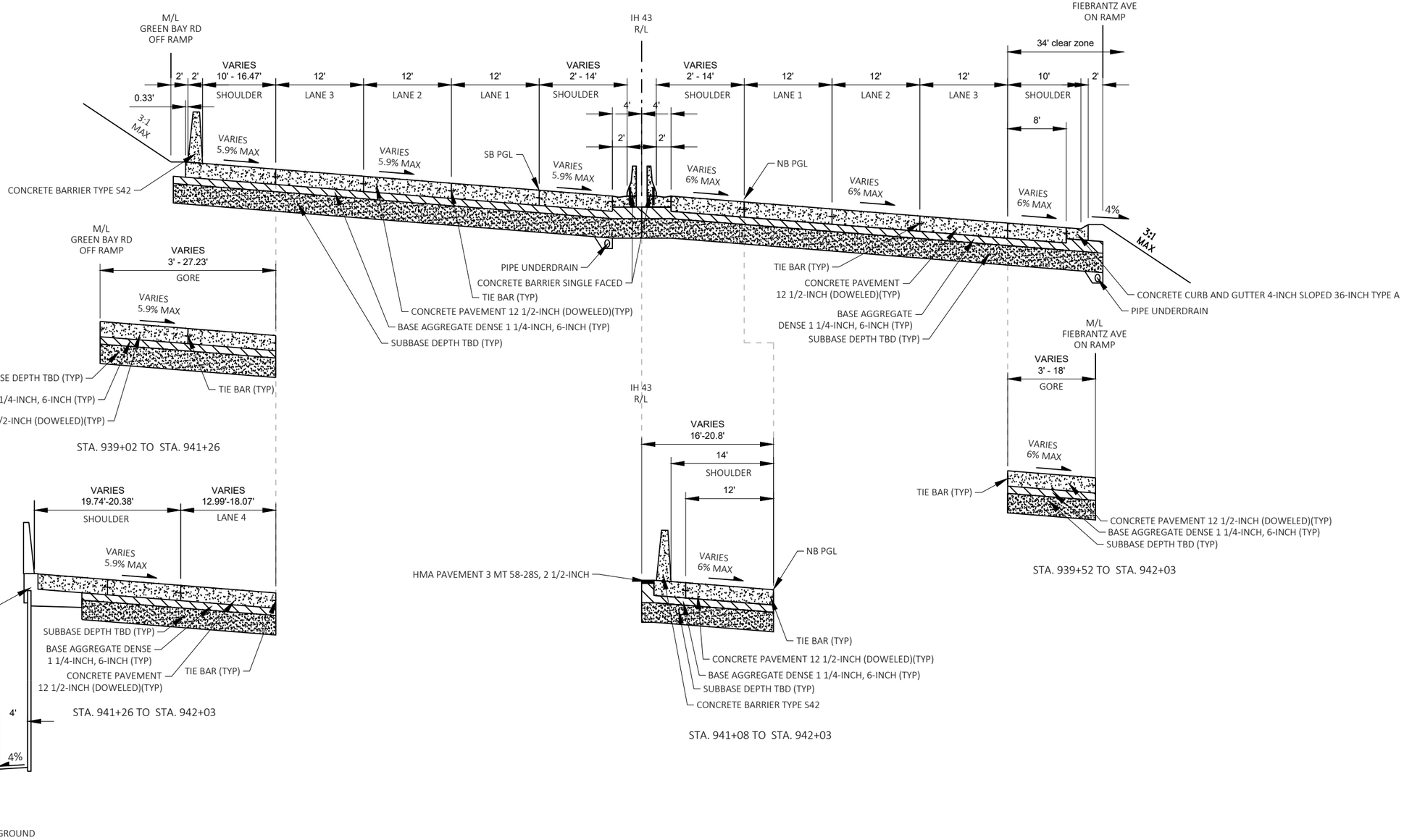


TYPICAL FINISHED SECTION
IH 43
STA. 934+97 TO STA. 935+68 SB
STA. 934+97 TO STA. 935+39 NB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_18 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020403-ts
PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL FINISHED SECTION
IH 43

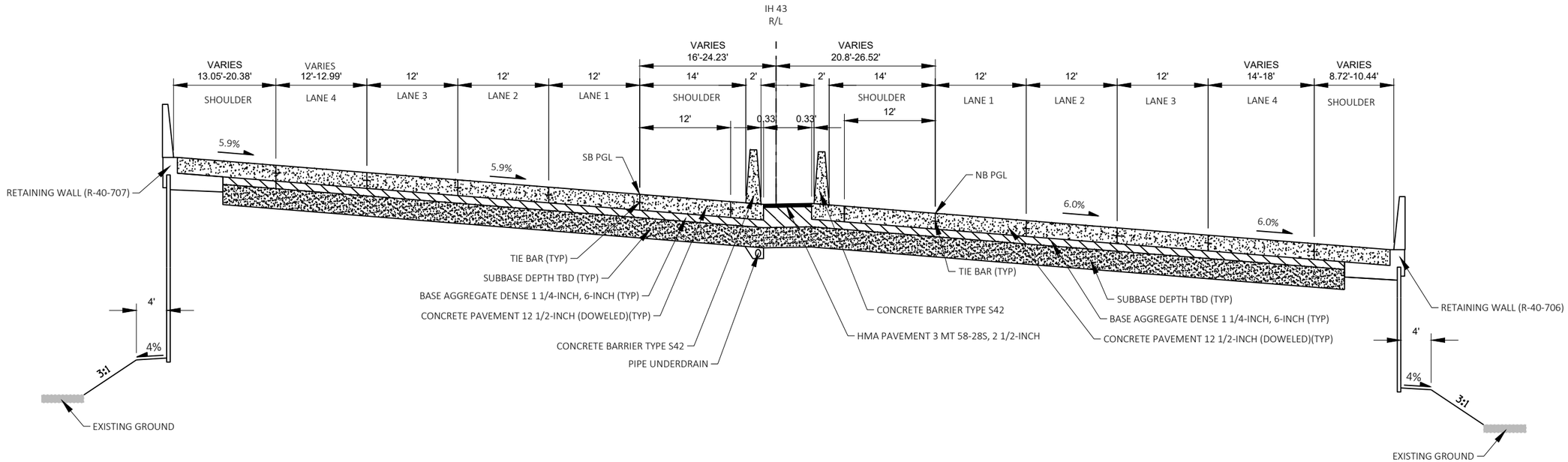
STA. 937+65 TO STA. 942+03 SB
STA. 937+34 TO STA. 942+03 NB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_19 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020404-ts

PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL FINISHED SECTION

IH 43

STA. 942+03 TO STA. 944+00

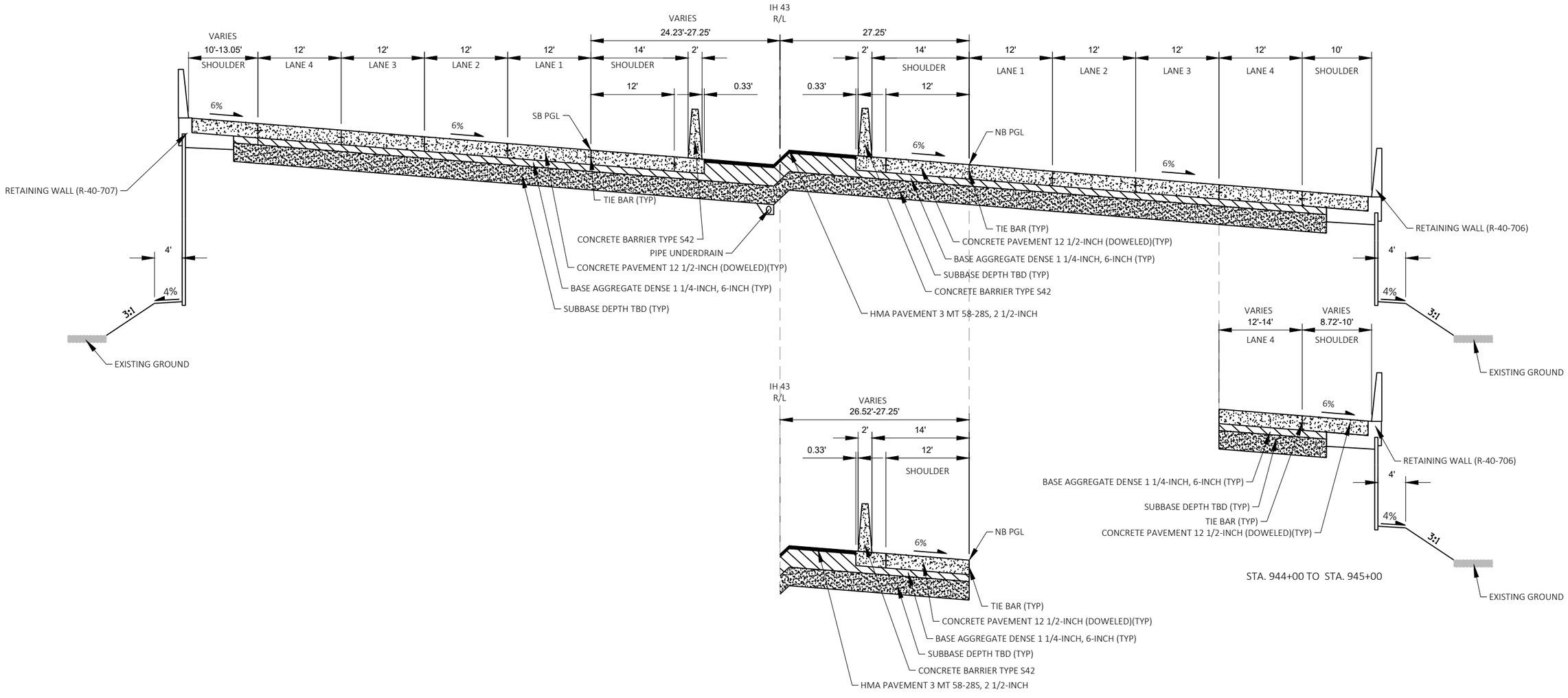
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_20

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020405-ts

PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



STA. 944+00 TO STA. 945+00

STA. 944+00 TO STA. 945+00

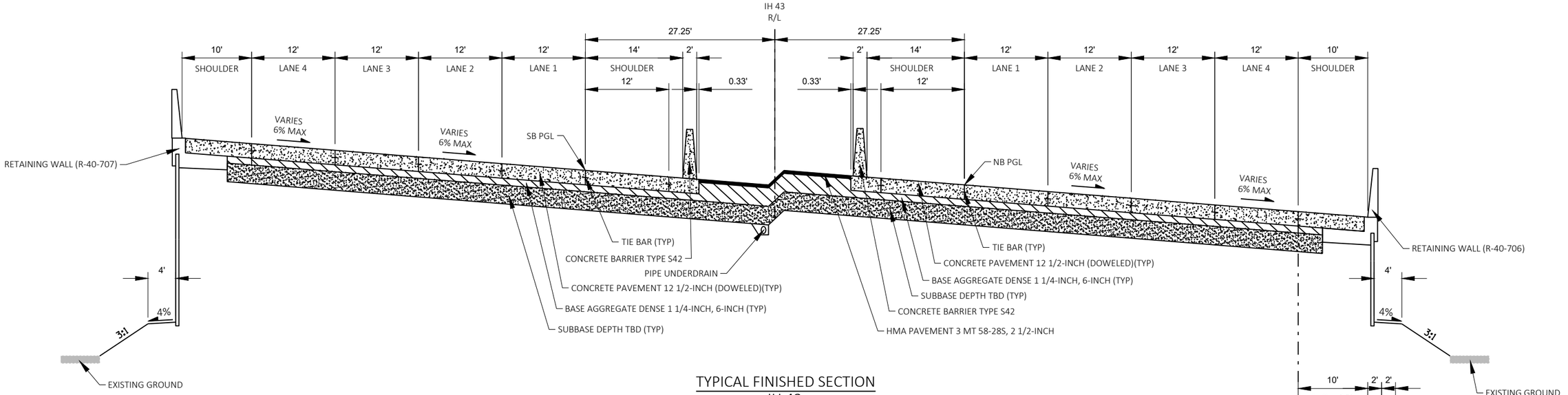
STA. 944+00 TO STA. 945+00

TYPICAL FINISHED SECTION
IH 43
STA. 944+00 TO STA. 946+10

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

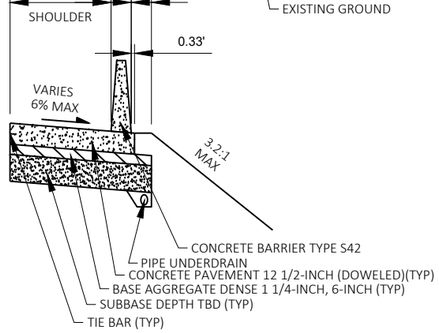
PRE_21

2



TYPICAL FINISHED SECTION
IH 43

STA. 946+10 TO STA. 955+59



STA. 948+86 TO STA. 955+59

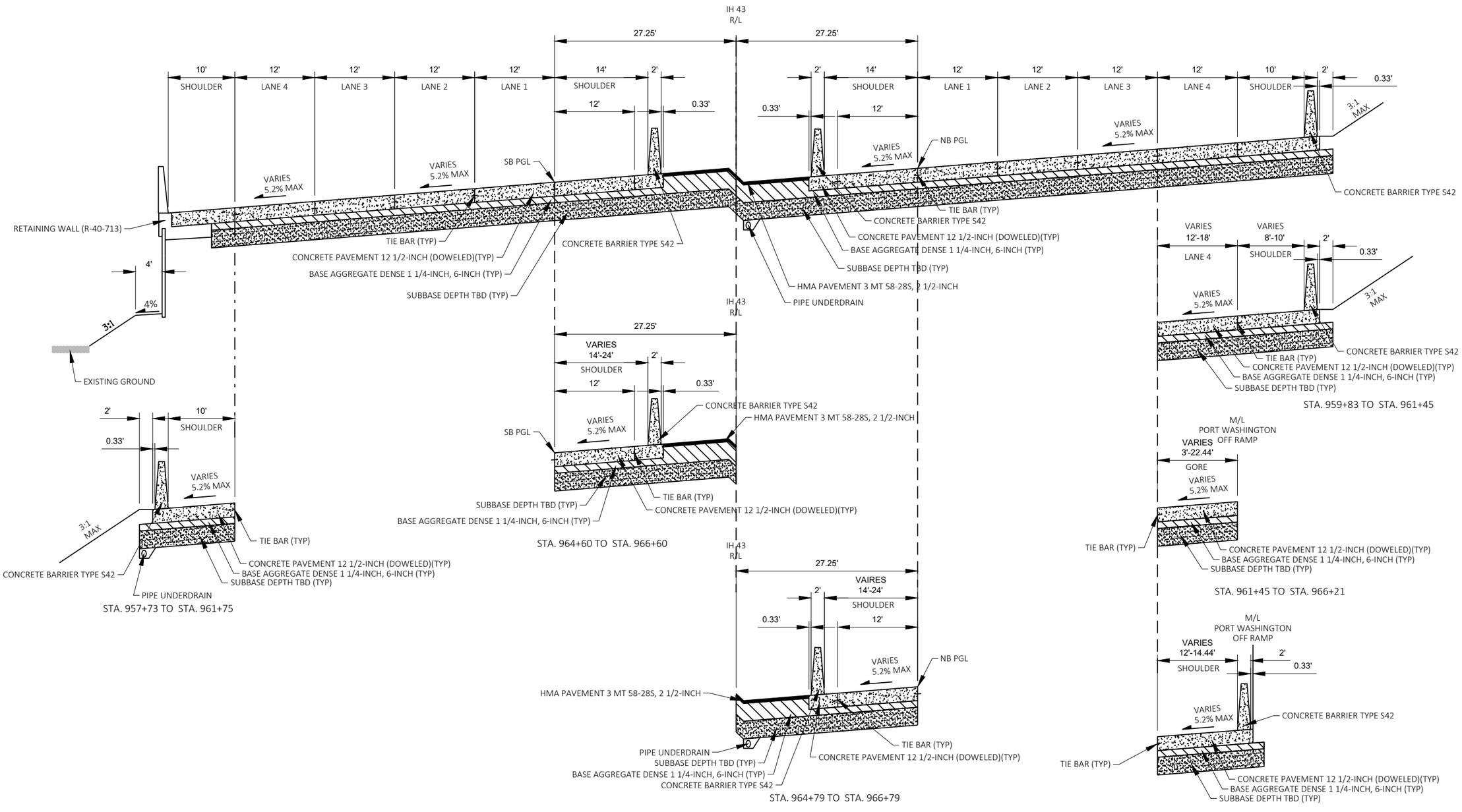
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_22

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020407-ts

PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL FINISHED SECTION
IH 43

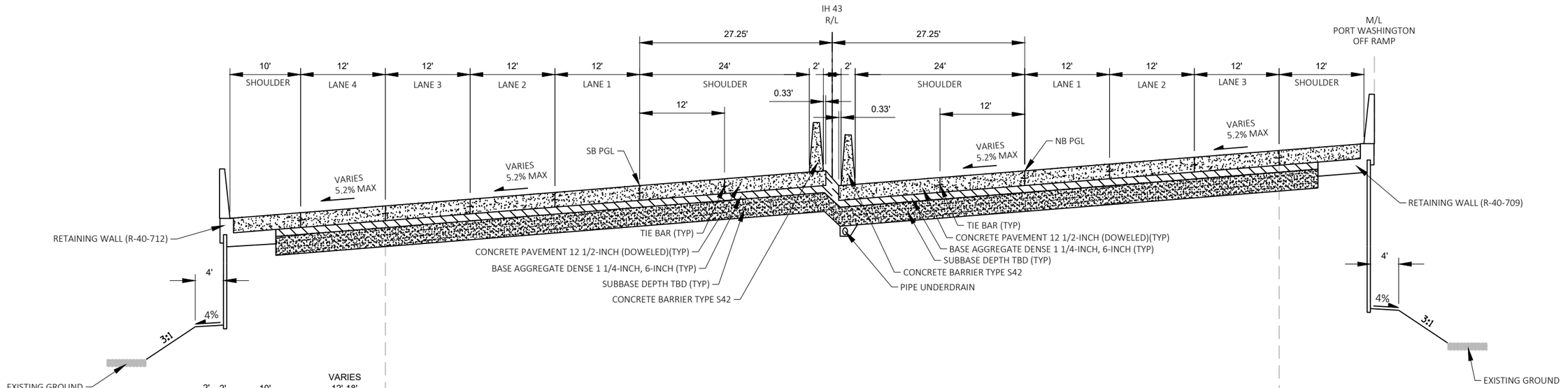
STA. 955+59 TO STA. 966+60 SB
STA. 955+59 TO STA. 966+79 NB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_23

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\020401-TS.DWG
LAYOUT NAME - 020408-ts

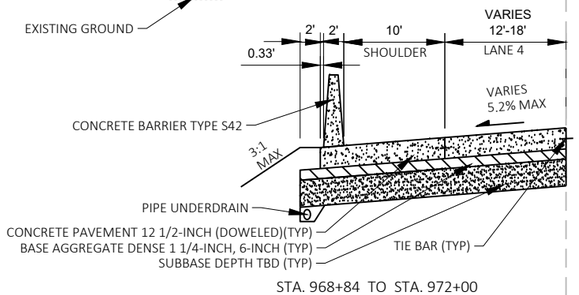
PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT



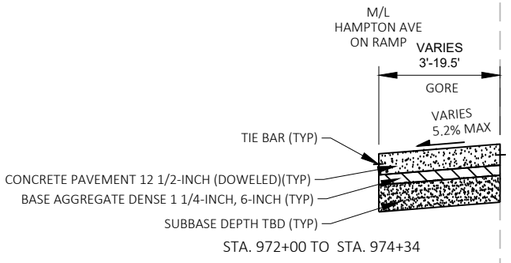
TYPICAL FINISHED SECTION

IH 43

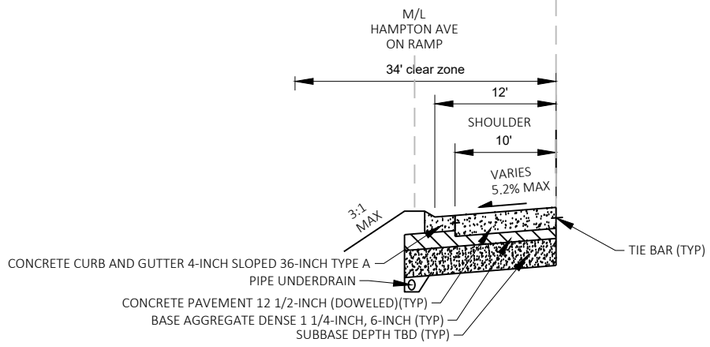
STA. 968+34 TO STA. 974+48 SB
STA. 968+45 TO STA. 974+48 NB



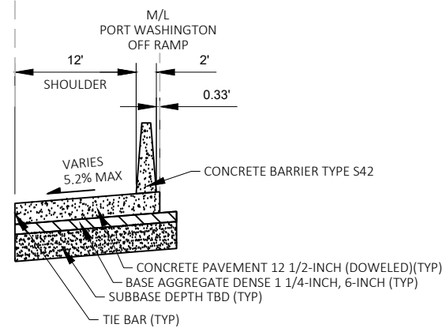
STA. 968+84 TO STA. 972+00



STA. 972+00 TO STA. 974+34

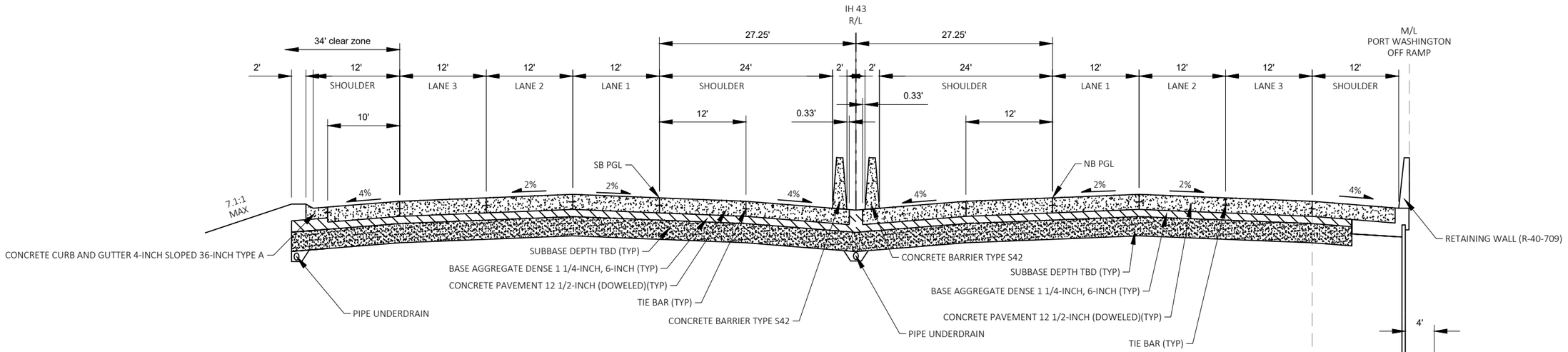


STA. 974+34 TO STA. 974+48



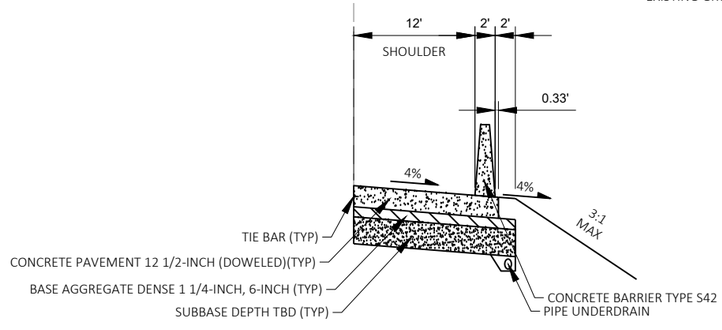
STA. 968+45 TO STA. 971+95

2



TYPICAL FINISHED SECTION
IH 43

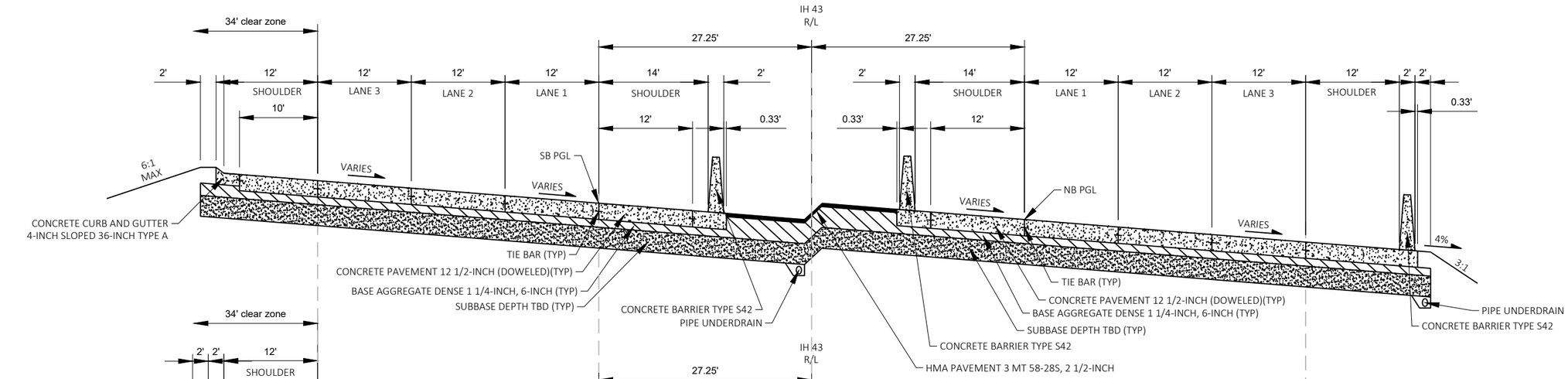
STA. 974+48 TO STA. 977+04 SB
STA. 974+48 TO STA. 977+08 NB

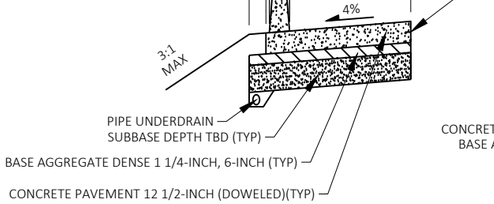


STA. 976+83 TO STA. 977+08

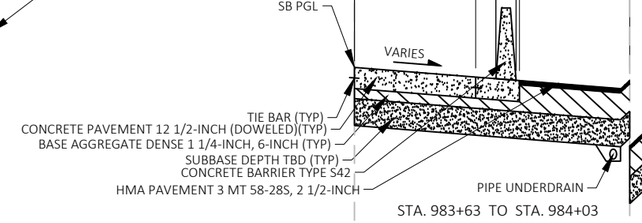
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_25 E

2

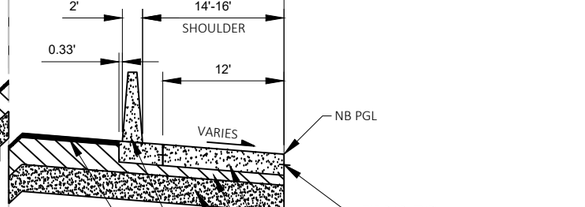




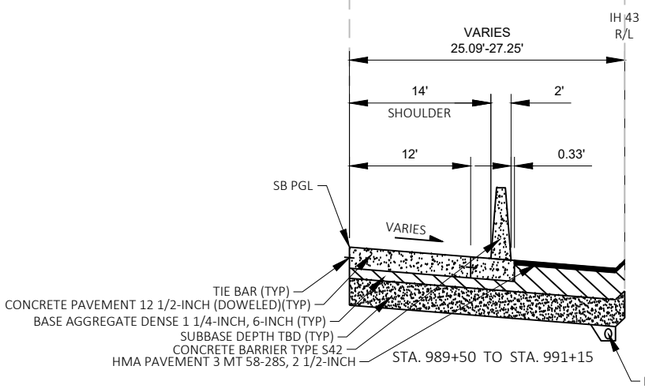
STA. 983+63 TO STA. 983+85



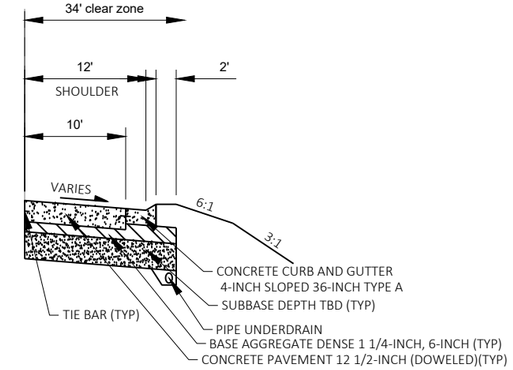
STA. 983+63 TO STA. 984+03



STA. 983+68 TO STA. 984+08



STA. 989+50 TO STA. 991+15



STA. 984+48 TO STA. 991+15

TYPICAL FINISHED SECTION
IH 43
STA. 983+63 TO STA. 991+15 SB
STA. 983+68 TO STA. 991+15 NB

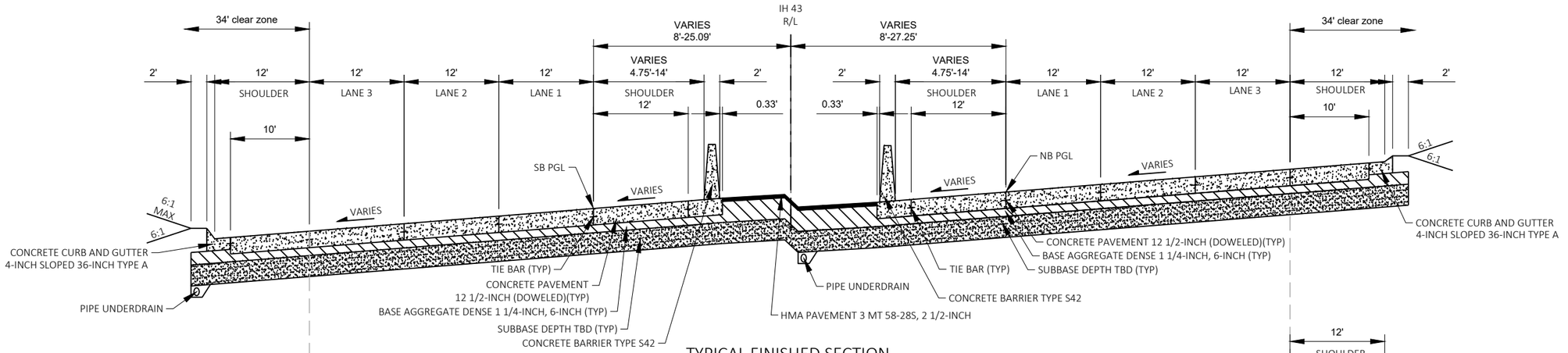
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_26

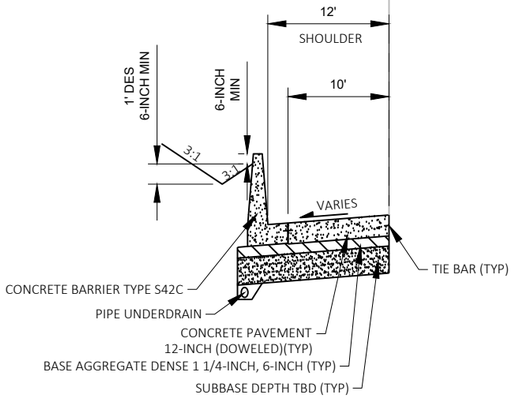
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LAYOUT NAME - 020411-ts

PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

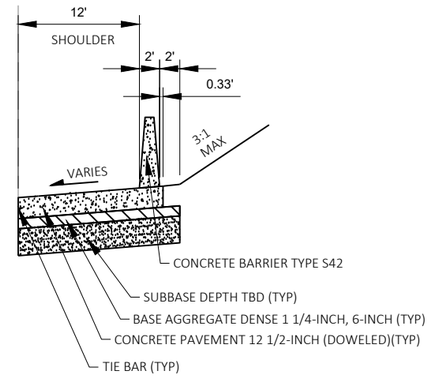
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TYPICAL FINISHED SECTION
IH 43
STA. 991+15 TO STA. 1000+31



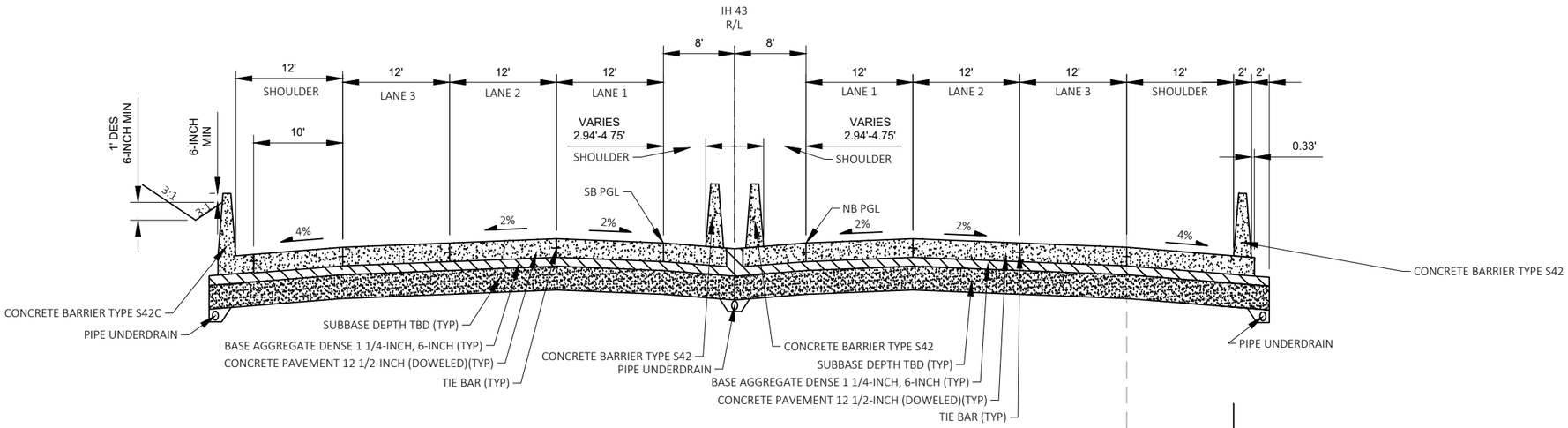
STA. 995+00 TO STA. 1000+31



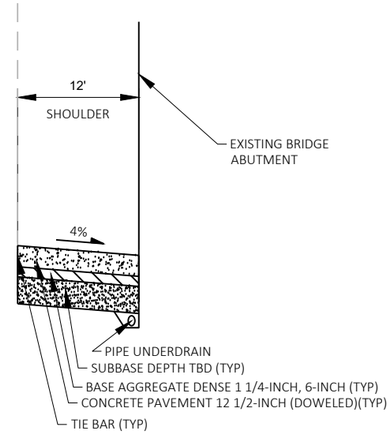
STA. 998+72 TO STA. 1000+31

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_27 E

2



TYPICAL FINISHED SECTION
IH 43
STA. 1000+31 TO STA. 1001+53

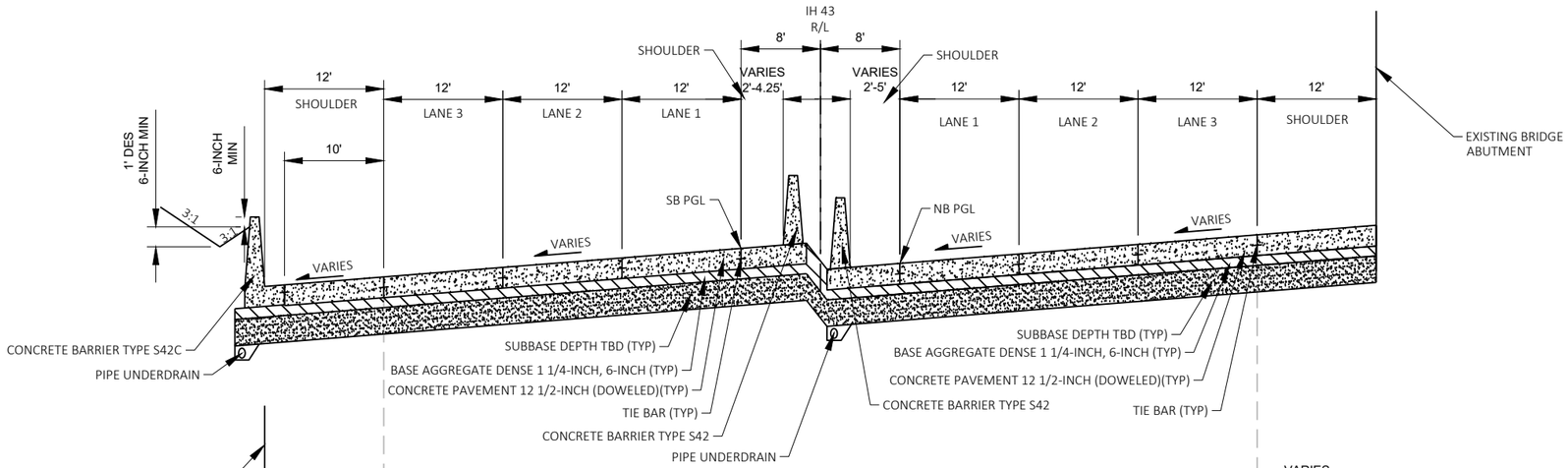


STA. 1000+72 TO STA. 1001+53

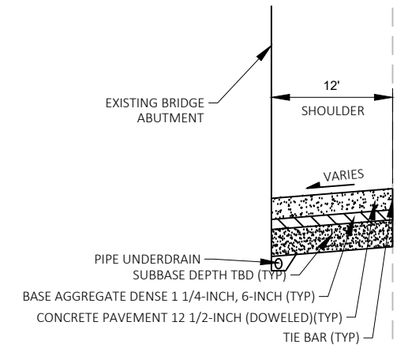
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_28 E

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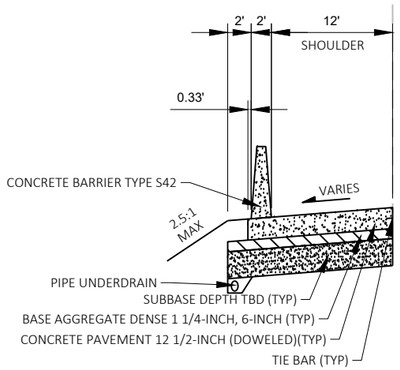
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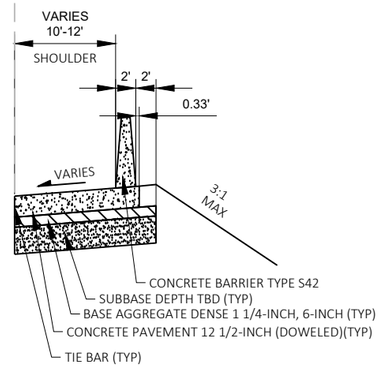
TYPICAL FINISHED SECTION
IH 43
STA. 1001+53 TO STA. 1003+57



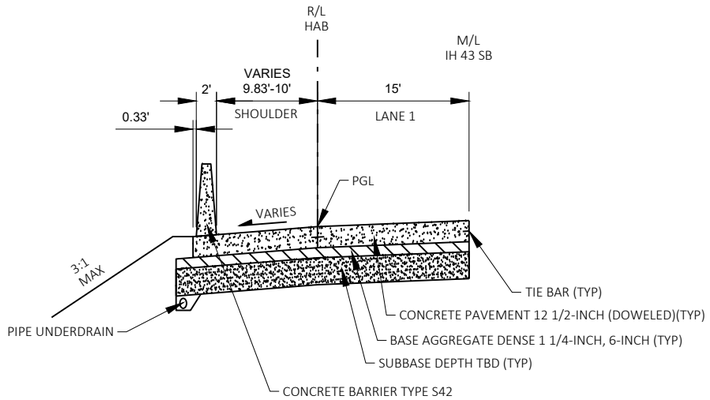
STA. 1002+21 TO STA. 1002+78



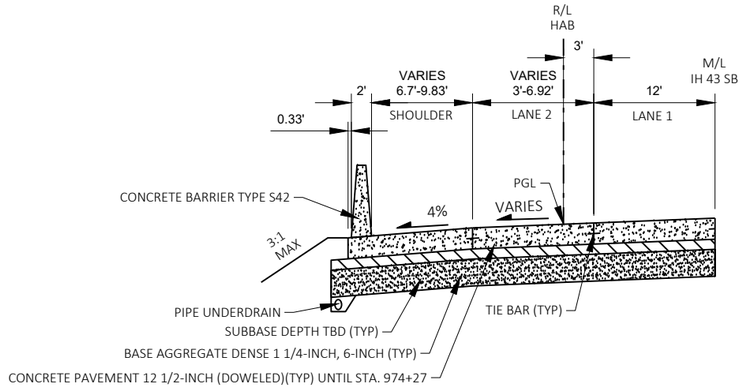
STA. 1002+78 TO STA. 1003+57



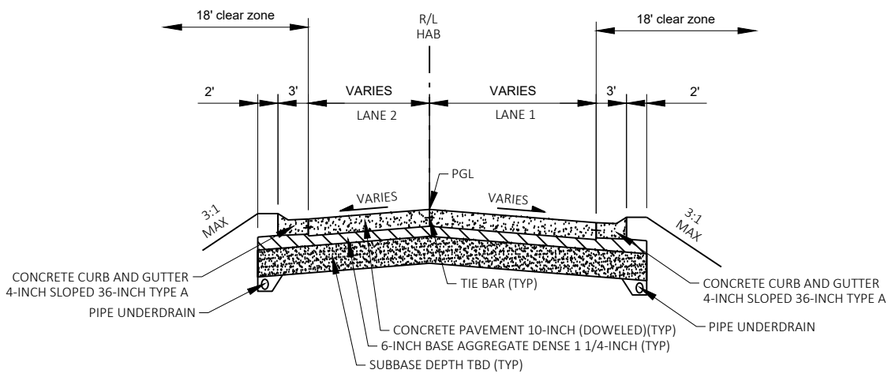
STA. 1001+76 TO STA. 1003+57



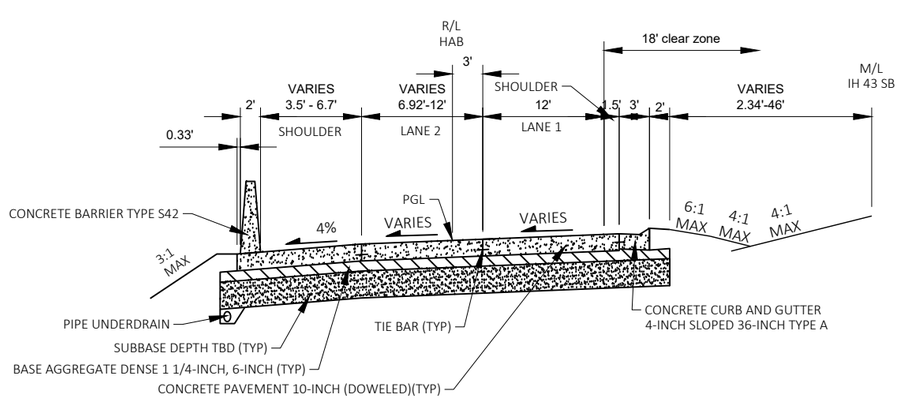
TYPICAL FINISHED SECTION
RAMP HAB
STA. 971+93 TO STA. 973+05



TYPICAL FINISHED SECTION
RAMP HAB
STA. 973+05 TO STA. 974+27



TYPICAL FINISHED SECTION
RAMP HAB
STA. 981+20 TO STA. 981+91



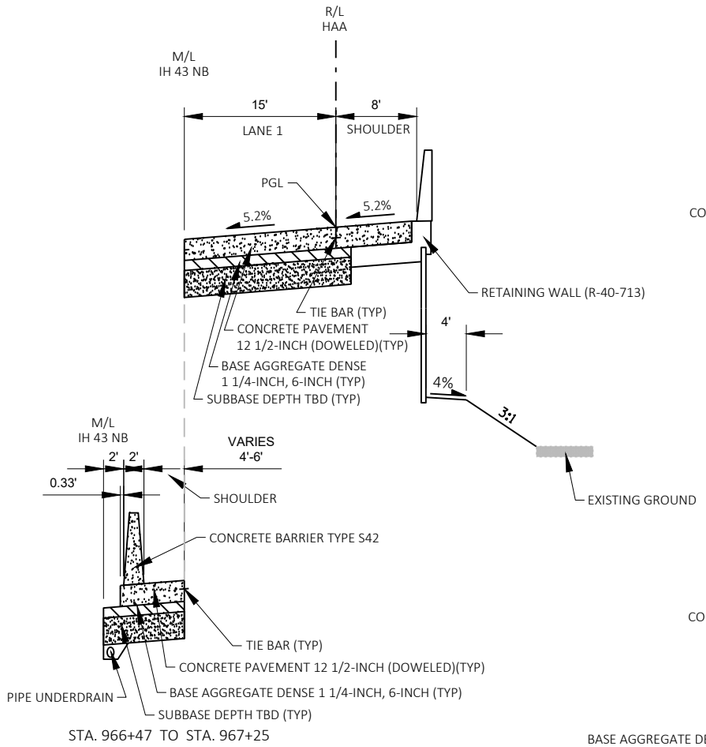
TYPICAL FINISHED SECTION
RAMP HAB
STA. 974+27 TO STA. 977+17

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

PRE_30

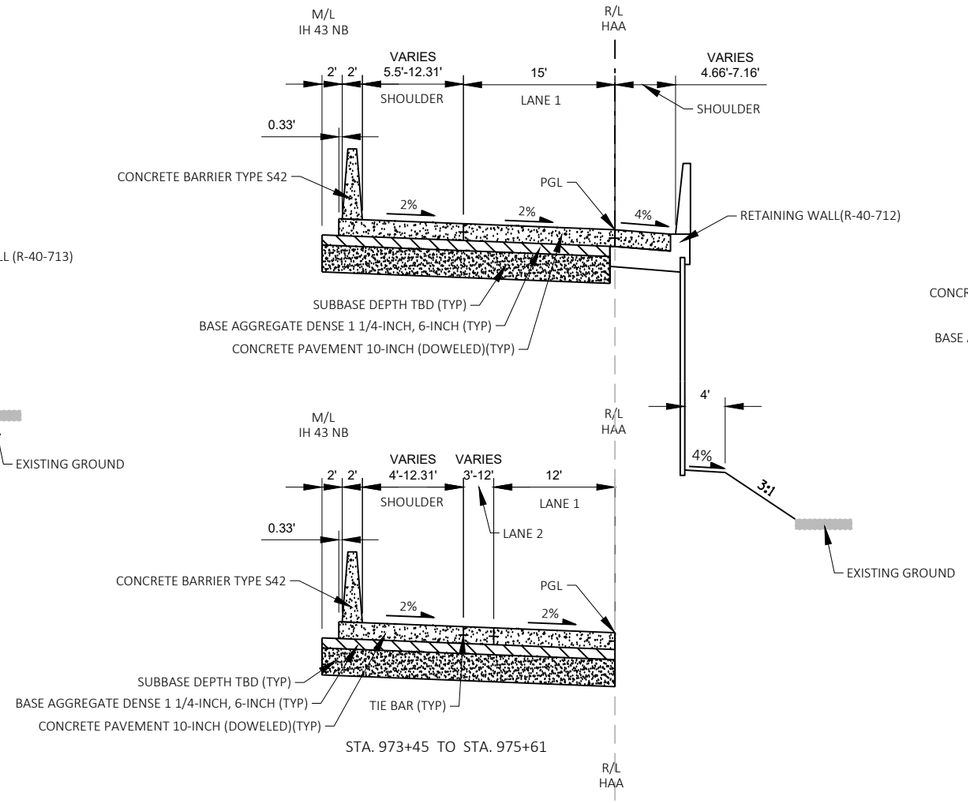
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LAYOUT NAME - 020415-ts

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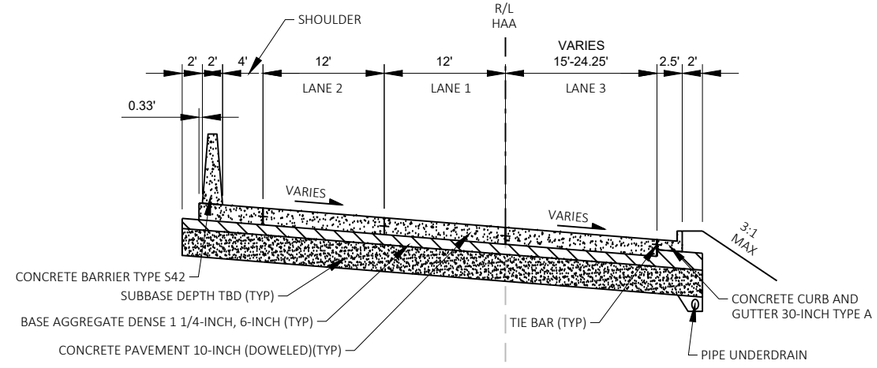


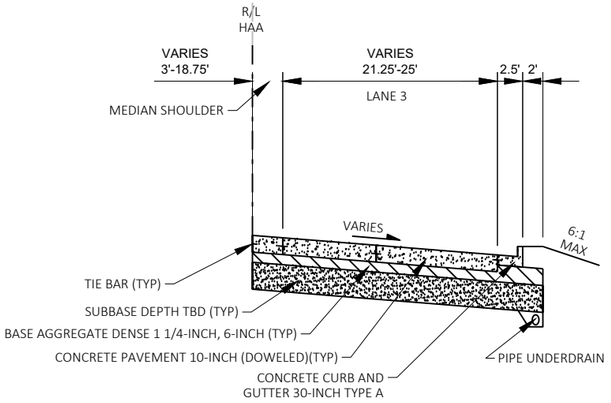
STA. 966+47 TO STA. 967+25

TYPICAL FINISHED SECTION
RAMP HAA
STA. 961+50 TO STA. 967+25



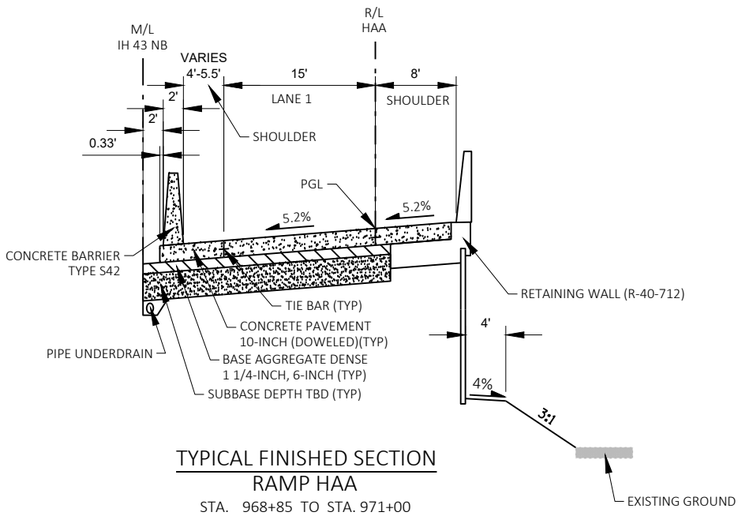
STA. 973+45 TO STA. 975+61



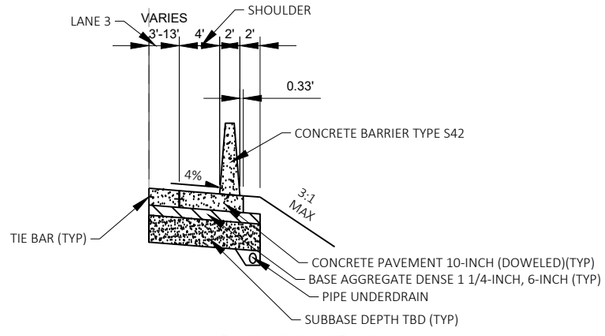


STA. 976+18 TO STA. 976+91

TYPICAL FINISHED SECTION
RAMP HAA
STA. 975+61 TO STA. 976+91



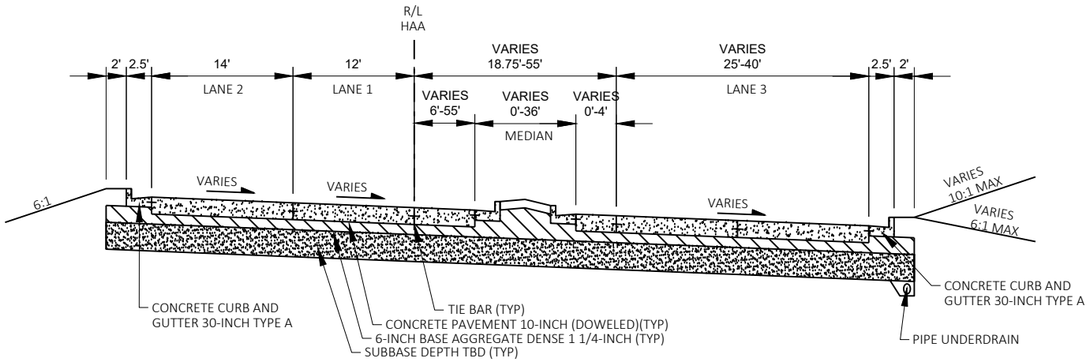
TYPICAL FINISHED SECTION
RAMP HAA
STA. 968+85 TO STA. 971+00



STA. 974+82 TO STA. 975+61

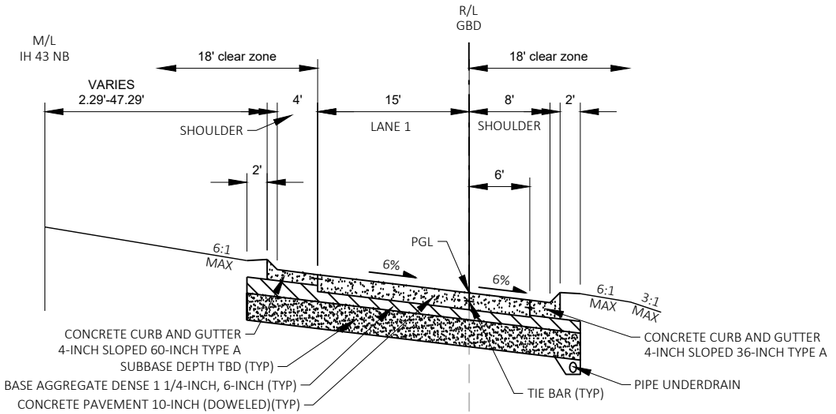
TYPICAL FINISHED SECTION
RAMP HAA
STA. 971+00 TO STA. 975+61

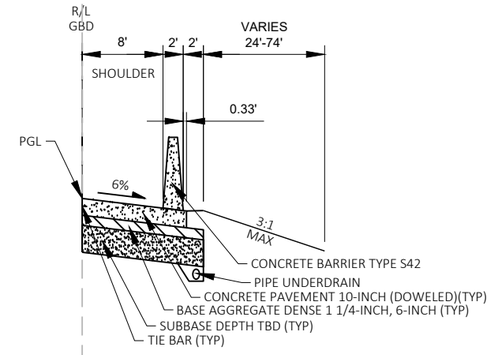
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E



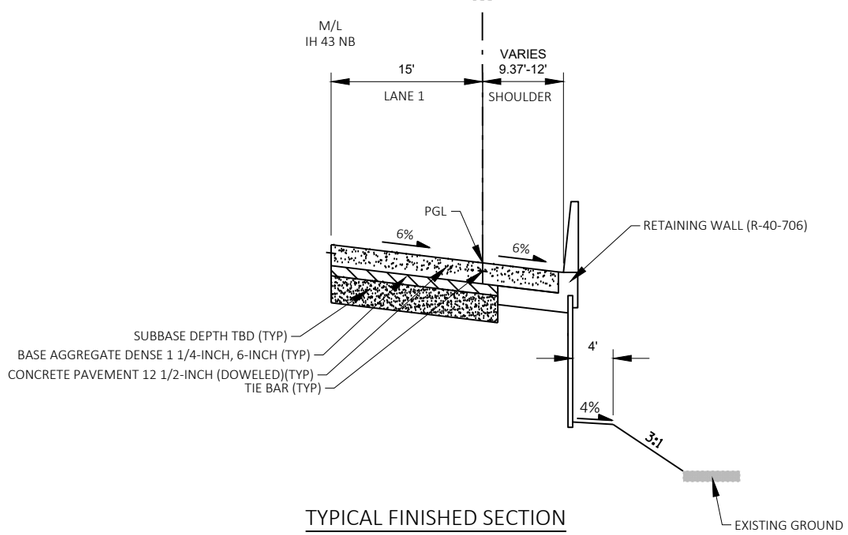
TYPICAL FINISHED SECTION
RAMP HAA

STA. 976+91 TO STA. 978+08



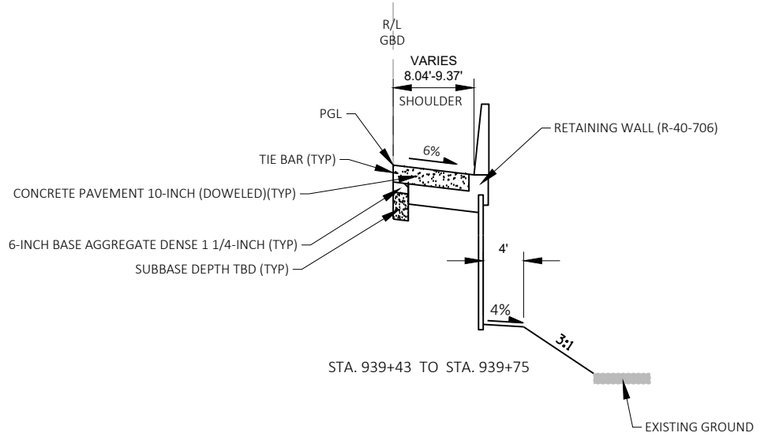


STA. 938+47 TO STA. 939+43



TYPICAL FINISHED SECTION
RAMP GBD

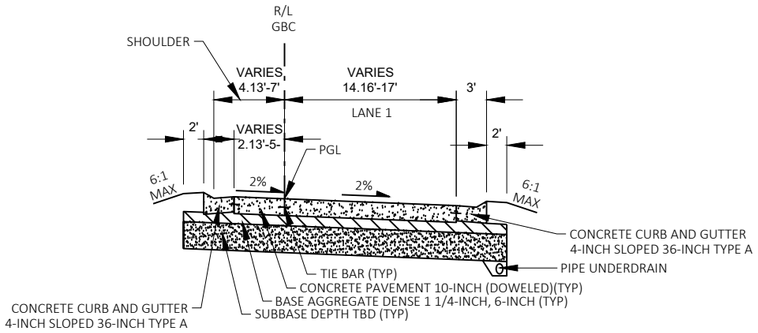
STA. 939+75 TO STA. 942+16



STA. 939+43 TO STA. 939+75

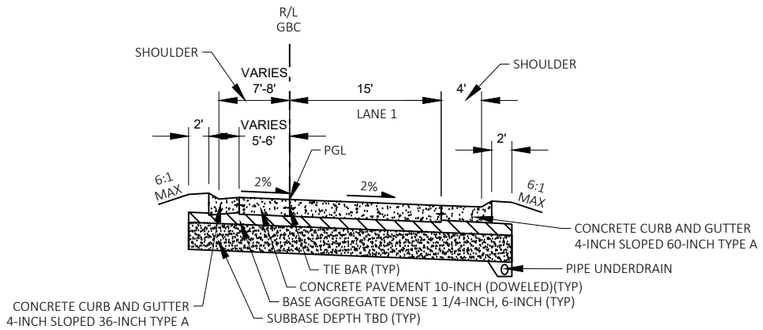
TYPICAL FINISHED SECTION
RAMP GBD

STA. 931+41 TO STA. 939+75



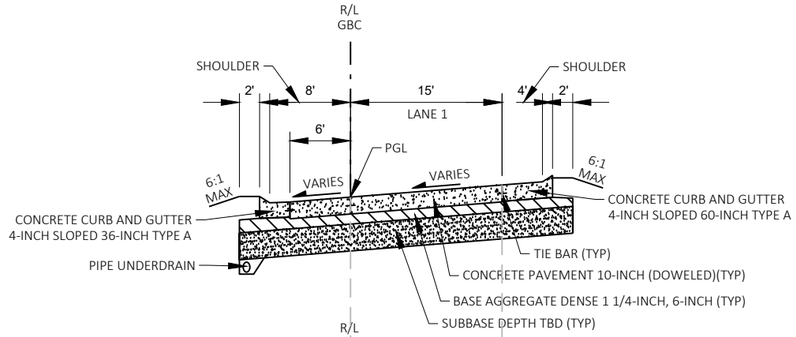
TYPICAL FINISHED SECTION
RAMP GBC

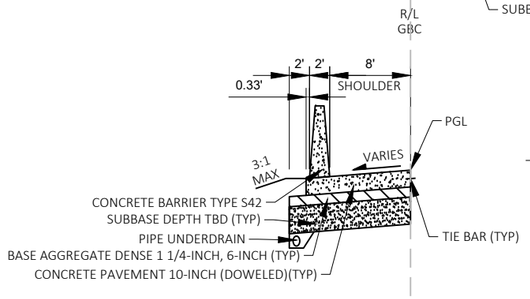
STA. 932+97 TO STA. 933+72



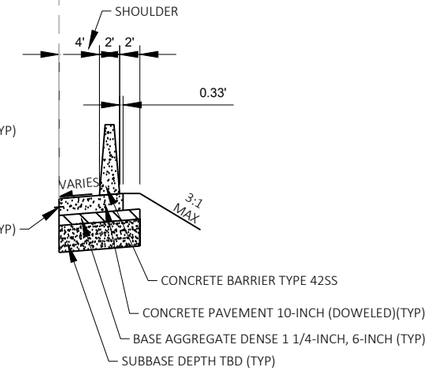
TYPICAL FINISHED SECTION
RAMP GBC

STA. 933+72 TO STA. 934+37

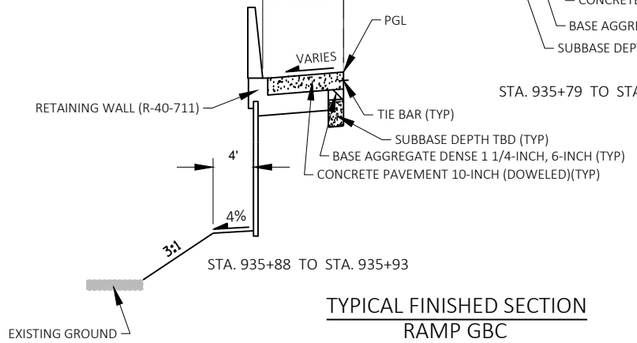




STA. 935+63 TO STA. 935+88



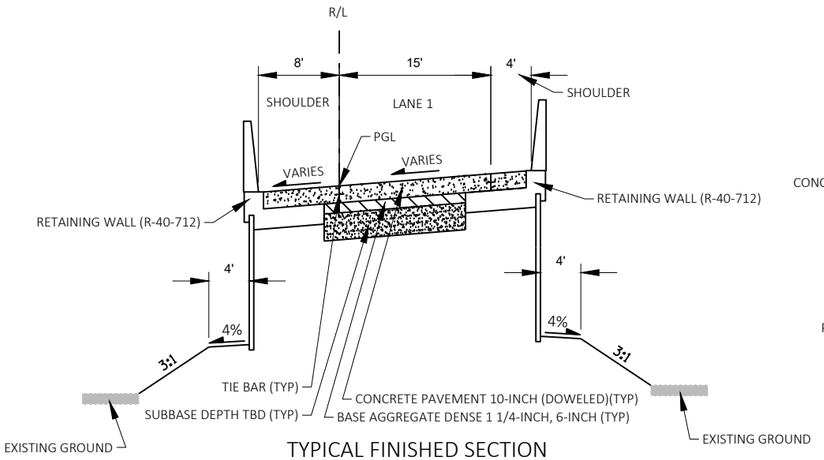
STA. 935+79 TO STA. 935+93



STA. 935+88 TO STA. 935+93

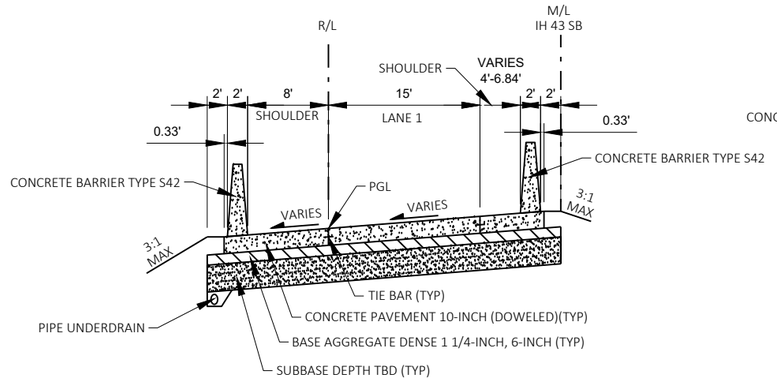
TYPICAL FINISHED SECTION
RAMP GBC

STA. 934+37 TO STA. 935+93



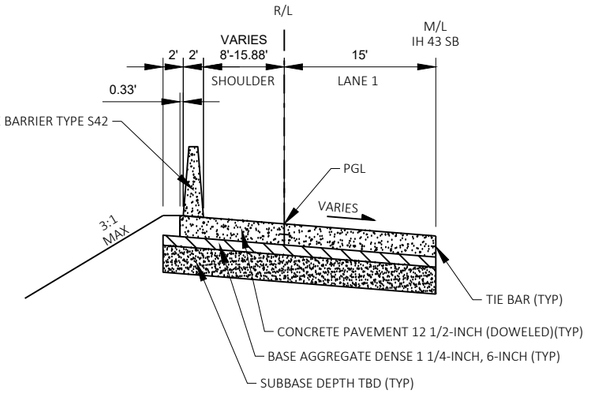
TYPICAL FINISHED SECTION
RAMP GBC

STA. 937+42 TO STA. 937+50



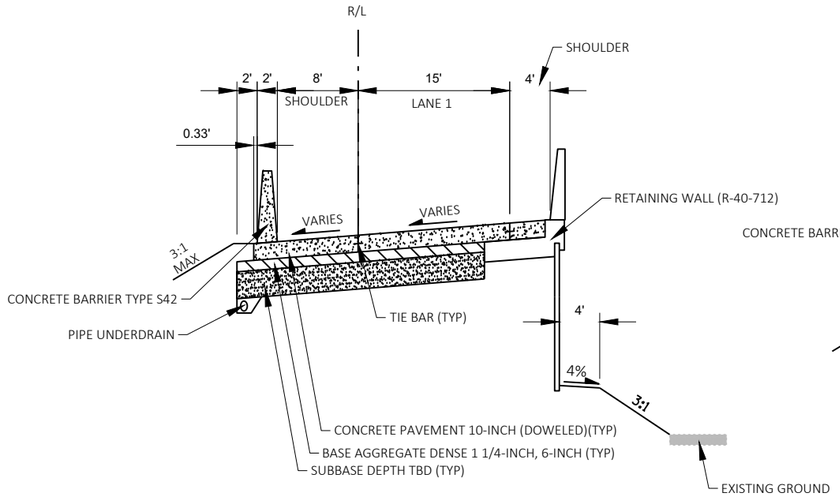
TYPICAL FINISHED SECTION
RAMP GBC

STA. 937+64 TO STA. 938+60



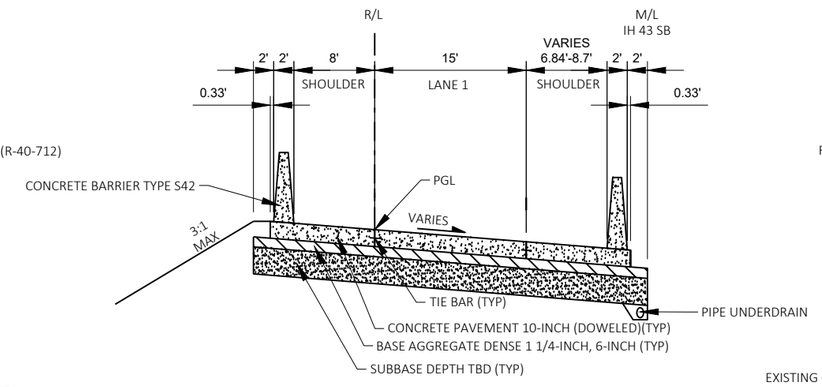
TYPICAL FINISHED SECTION
RAMP GBC

STA. 938+94 TO STA. 940+47



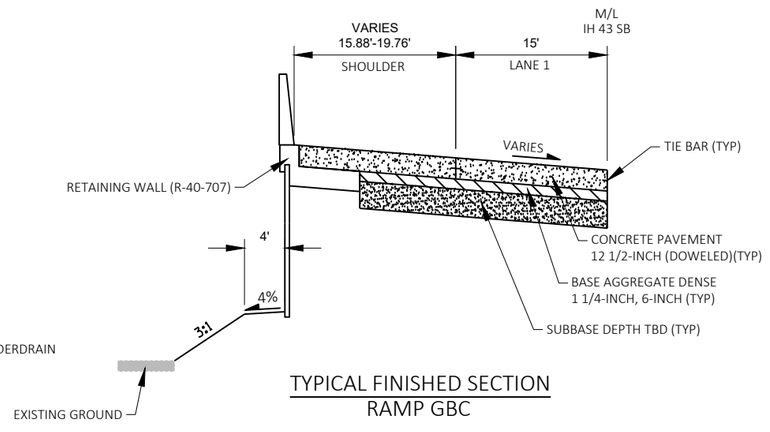
TYPICAL FINISHED SECTION
RAMP GBC

STA. 937+50 TO STA. 937+64



TYPICAL FINISHED SECTION
RAMP GBC

STA. 938+60 TO STA. 938+94

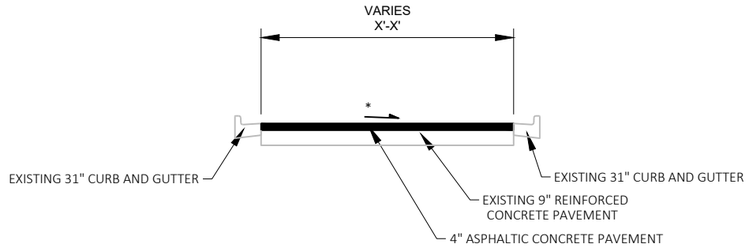


TYPICAL FINISHED SECTION
RAMP GBC

STA. 940+47 TO STA. 941+21

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET PRE_34 E

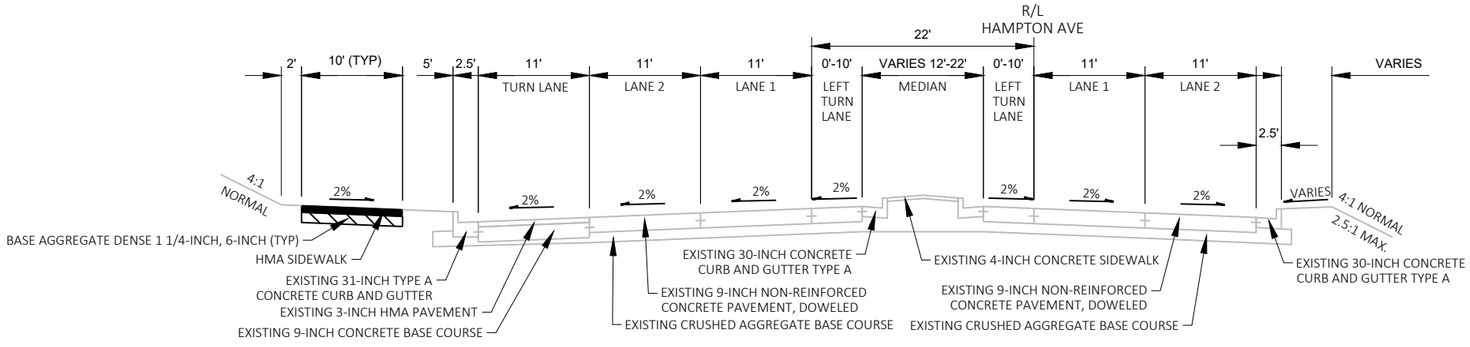
2



TYPICAL FINISHED SECTION

RAMP GBA2 25.5' MAX WIDTH
RAMP GBB2 27.6' MAX WIDTH
RAMP GBC STA. 931+48 TO STA. 932+98 (25' MAX WIDTH)

* MATCH EXISTING CROSS SLOPE



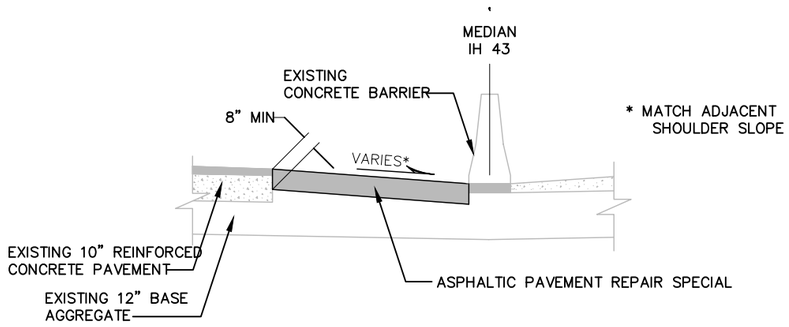
TYPICAL FINISHED SECTION
HAMPTON AVE

UNDER B-40-1016 AND B-40-1018

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

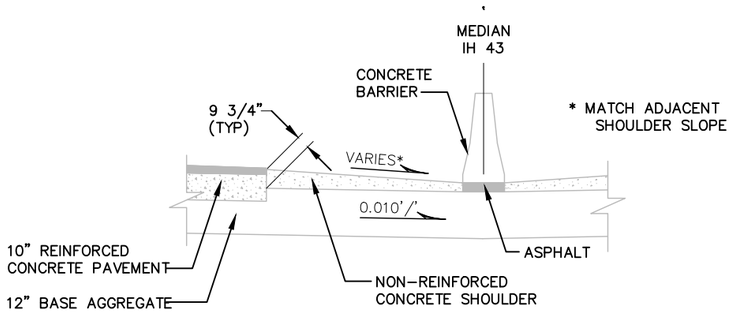
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LAYOUT NAME - 020420-ts
PLOT DATE : 2/24/2020 8:08 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



TYPICAL FINISHED SECTION – ASPHALT OPTION

(DRAINAGE STRUCTURES NOT SHOWN)

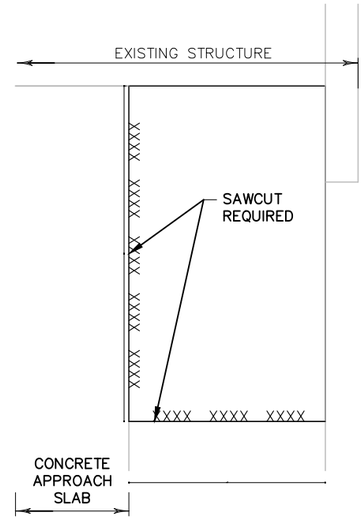


TYPICAL EXISTING SECTION

(DRAINAGE STRUCTURES NOT SHOWN)

NOTES

1. SAWCUT LIMITS TO BE DETERMINED BY THE ENGINEER.
2. IF VOIDS EXIST UNDER AREAS TO BE REPAIRED, AND AT THE DIRECTION OF THE ENGINEER, BACKFILL WITH BASE AGGREGATE DENSE AND/OR BACKFILL CONTROLLED LOW STRENGTH.



PLAN VIEW

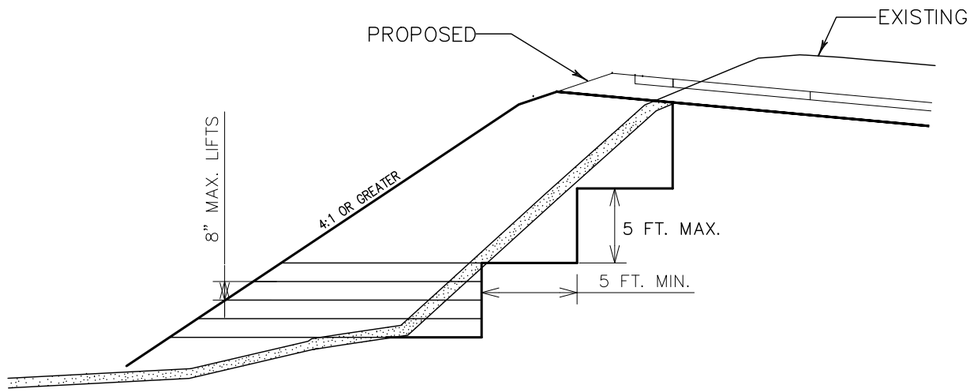
REPAIR AT BRIDGE APPROACH SLAB

SHOULDER REPAIR

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	SHOULDER REPAIR DETAIL	SHEET E

PRE_36

2



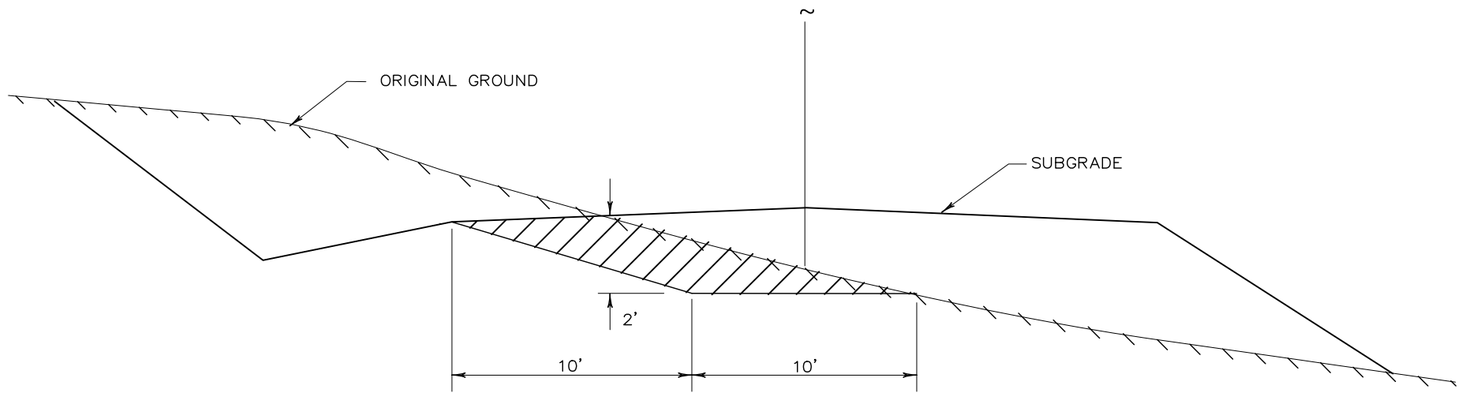
BENCH CONSTRUCTION

(APPLICABLE TO EXISTING SLOPES STEEPER THAN
3:1 AND HIGHER THAN 10 FEET.)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	BENCH CONSTRUCTION	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021002-CD.DWG
LAYOUT NAME - BENCH CONSTRUCTION
PLOT DATE : 10/15/2019 6:20 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

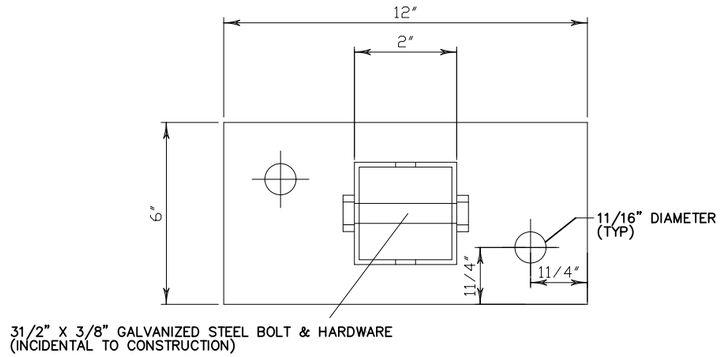
2



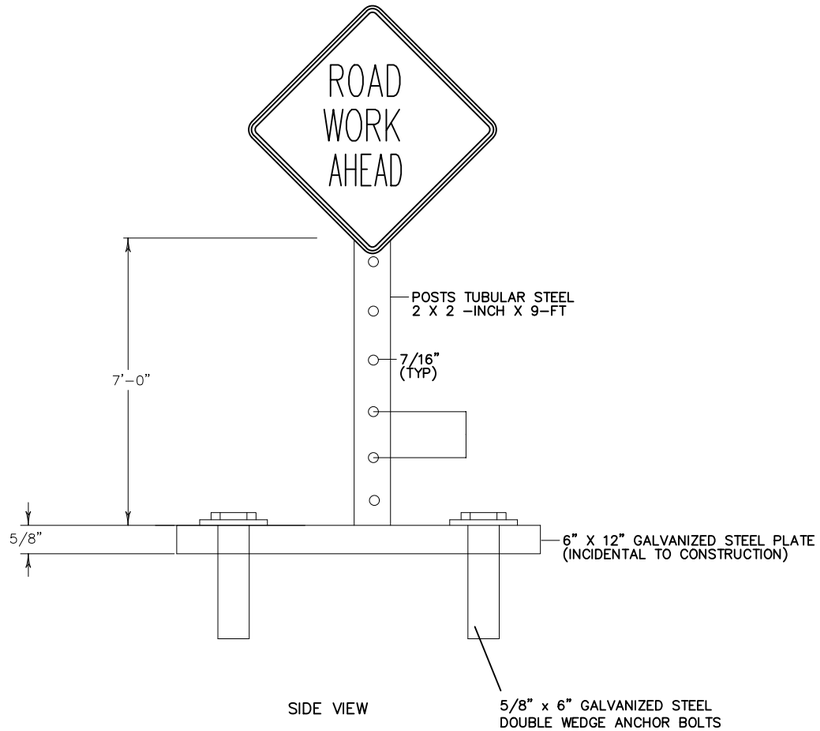
SIDE HILL CUT/FILL TRANSITION AREA

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	SIDE HILL CUT/FILL TRANSITION AREA	SHEET E

PRE_38

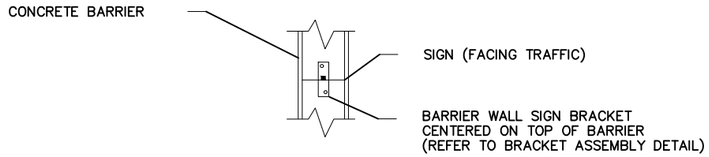


PLAN VIEW

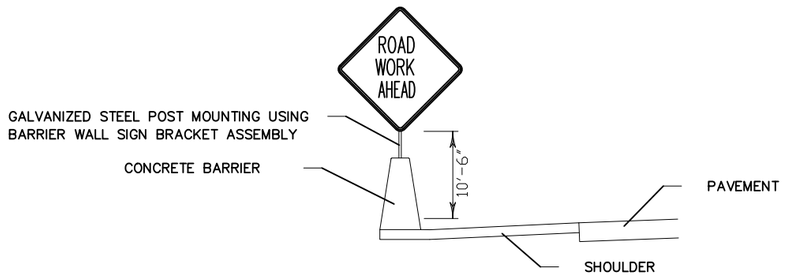


SIDE VIEW

BRACKET ASSEMBLY DETAIL



PLAN VIEW



SIDE VIEW

MEDIAN BARRIER MOUNTING DETAIL

MOUNTING DETAILS FOR SIGNS MOUNTED TO MEDIAN BARRIER

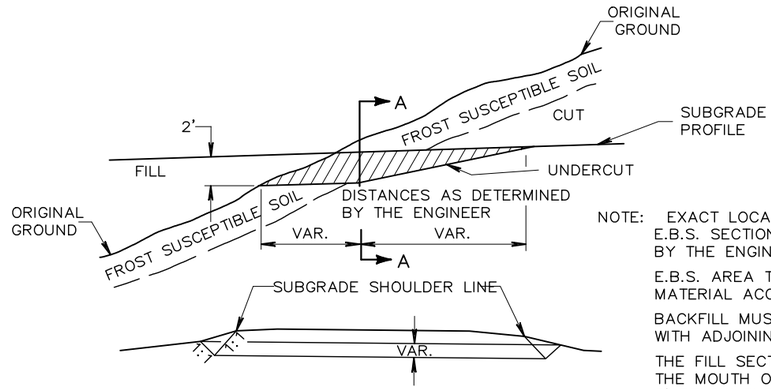
NOT TO SCALE

WORK ZONE MEDIAN BARRIER SIGN

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	WORK ZONE DETAIL	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021003-CD.DWG
LAYOUT NAME - WORK ZONE
PLOT DATE : 10/15/2019 6:20 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2



SECTION A–A

CROSS SECTION SHOWING UNDERCUT

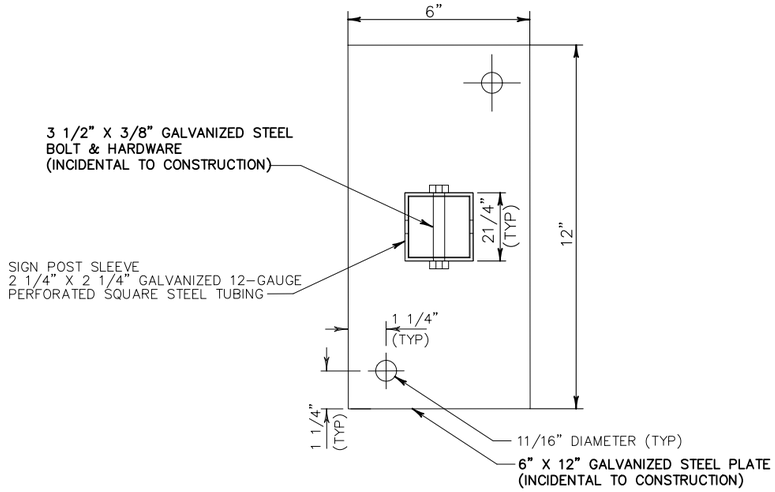
CUT TO FILL TRANSITION

NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

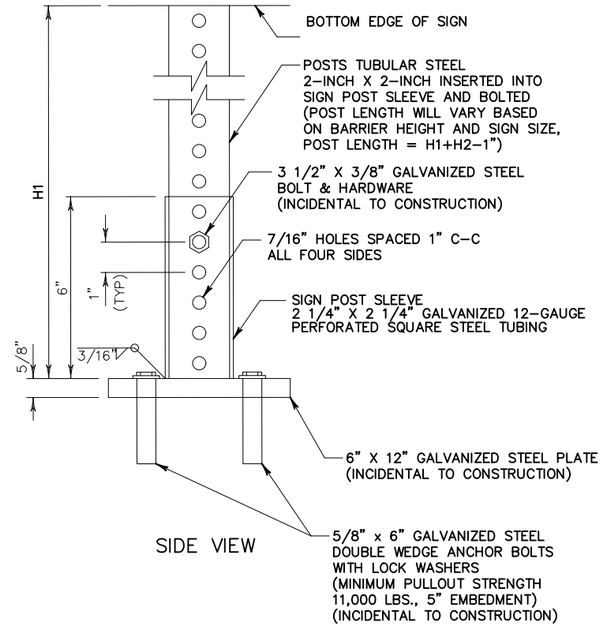
E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER

BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

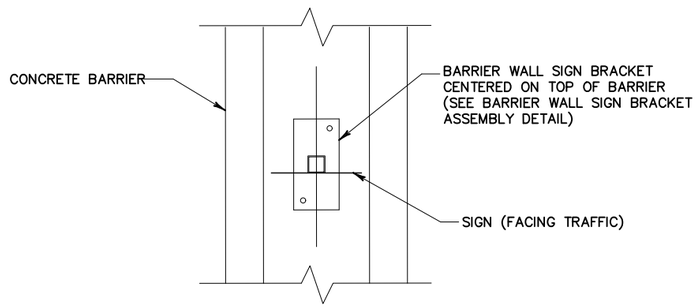


PLAN VIEW

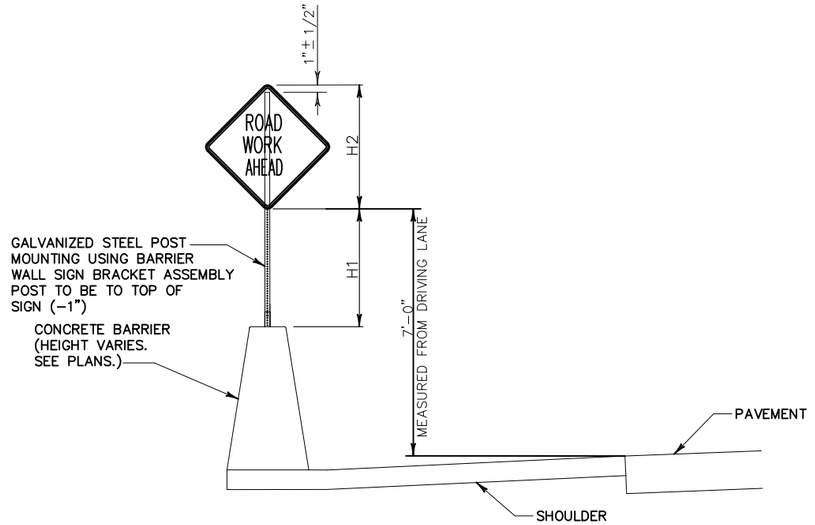


SIDE VIEW

BARRIER WALL SIGN BRACKET ASSEMBLY DETAIL



PLAN VIEW



SIDE VIEW

MEDIAN BARRIER MOUNTING DETAIL

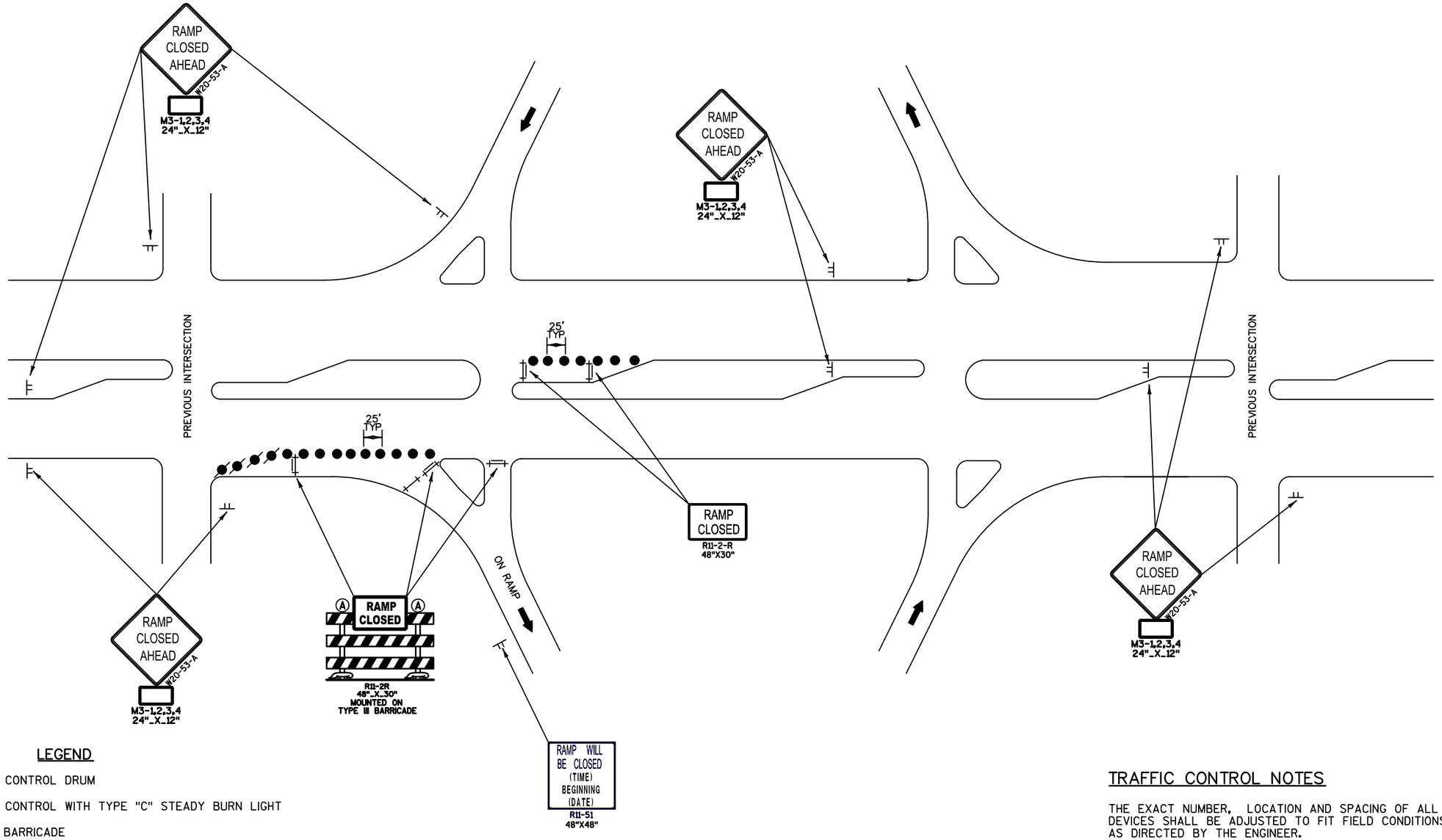
MOUNTING SIGNS TO MEDIAN BARRIER

NOT TO SCALE

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	MOUNTING DETAIL	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021006-CD.DWG
LAYOUT NAME - MOUNTING
PLOT DATE : 10/15/2019 6:20 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2



NORTH
M3-1
24"_X_12"

EAST
M3-2
24"_X_12"

SOUTH
M3-3
24"_X_12"

WEST
M3-4
24"_X_12"

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHT (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

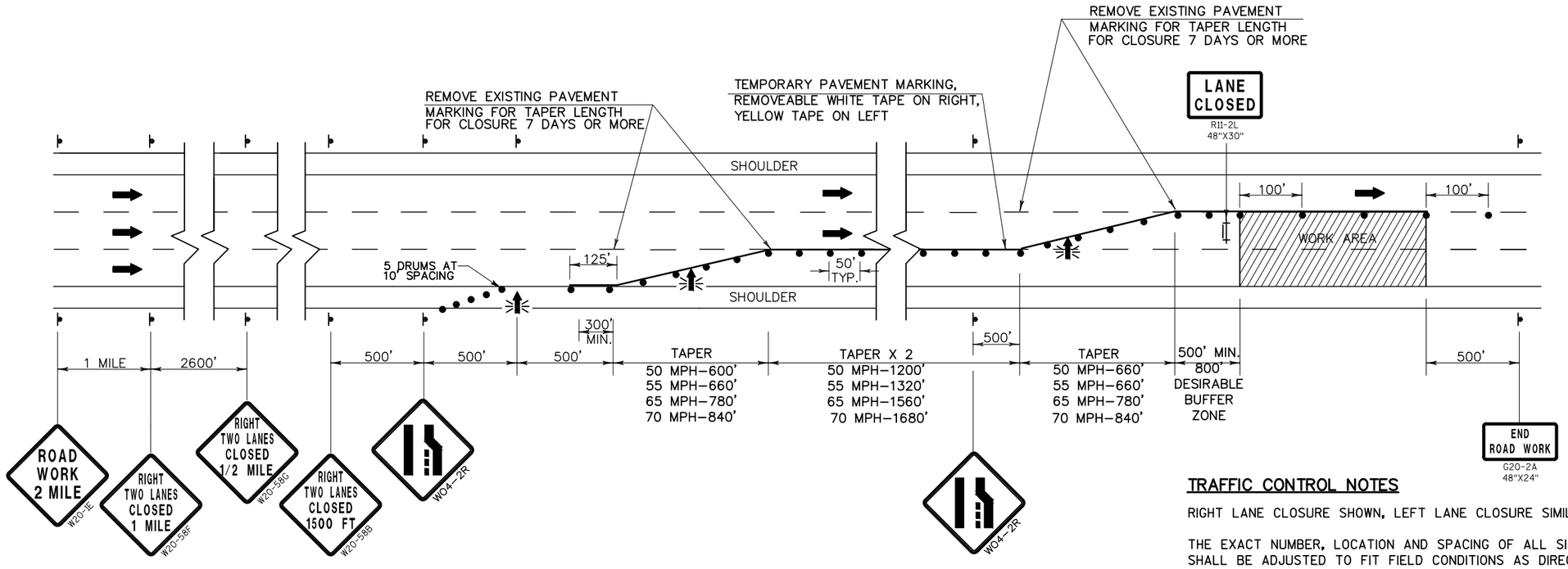
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SHORT TERM DEFINED AS 7 DAYS OR LESS.
FOR NIGHT TIME OPERATIONS ALL DRUMS IN TAPERS SHALL HAVE WARNING LIGHT, TYPE C (STEADY BURN). MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL DETAIL	SHEET E

PRE_42

2



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- TYPE III BARRICADE WITH SIGN WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- PCMS TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN, LEFT LANE CLOSURE SIMILAR.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

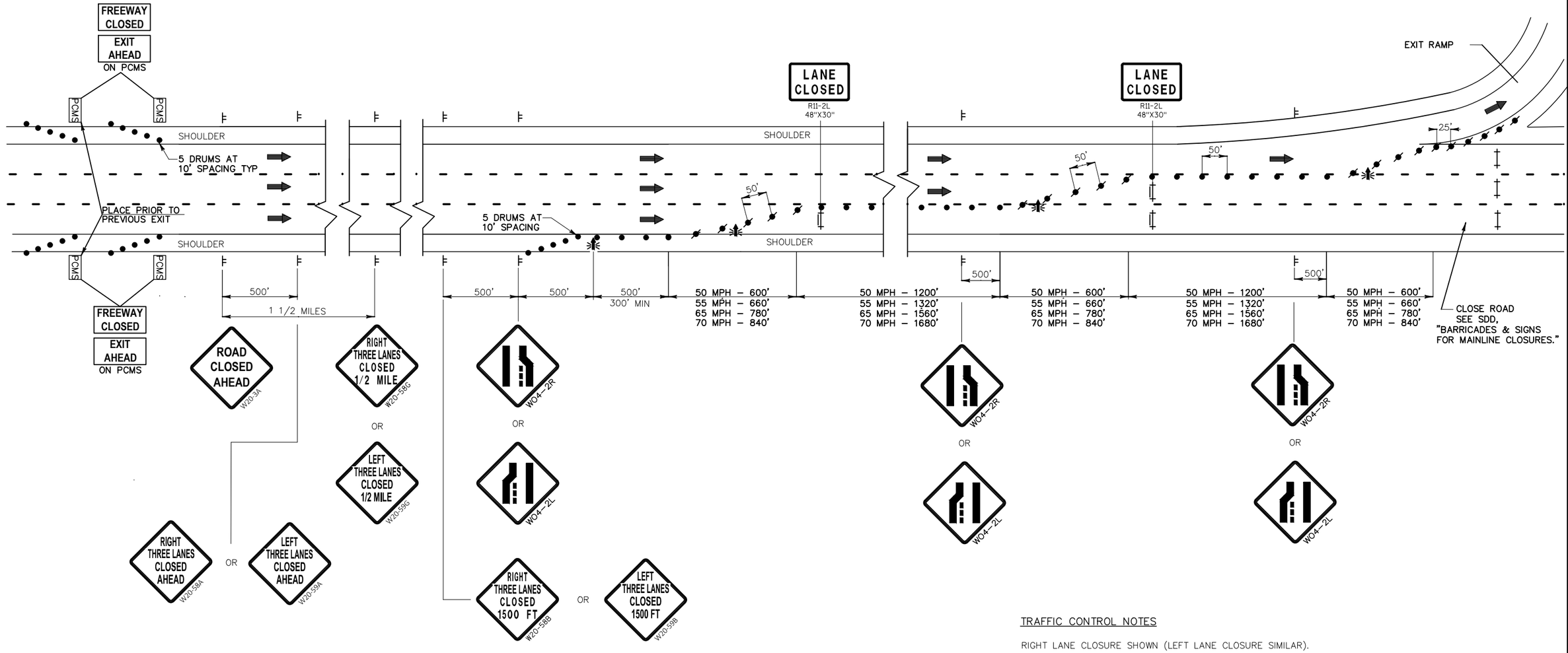
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS

TYPICAL TWO-LANE CLOSURE

2 LANE CLOSURE - SPEEDS 50 MPH OR HIGHER

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL DETAIL	SHEET E

PRE_43



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- TYPE III BARRICADE WITH SIGN WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- PCMS TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

THREE LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR).

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

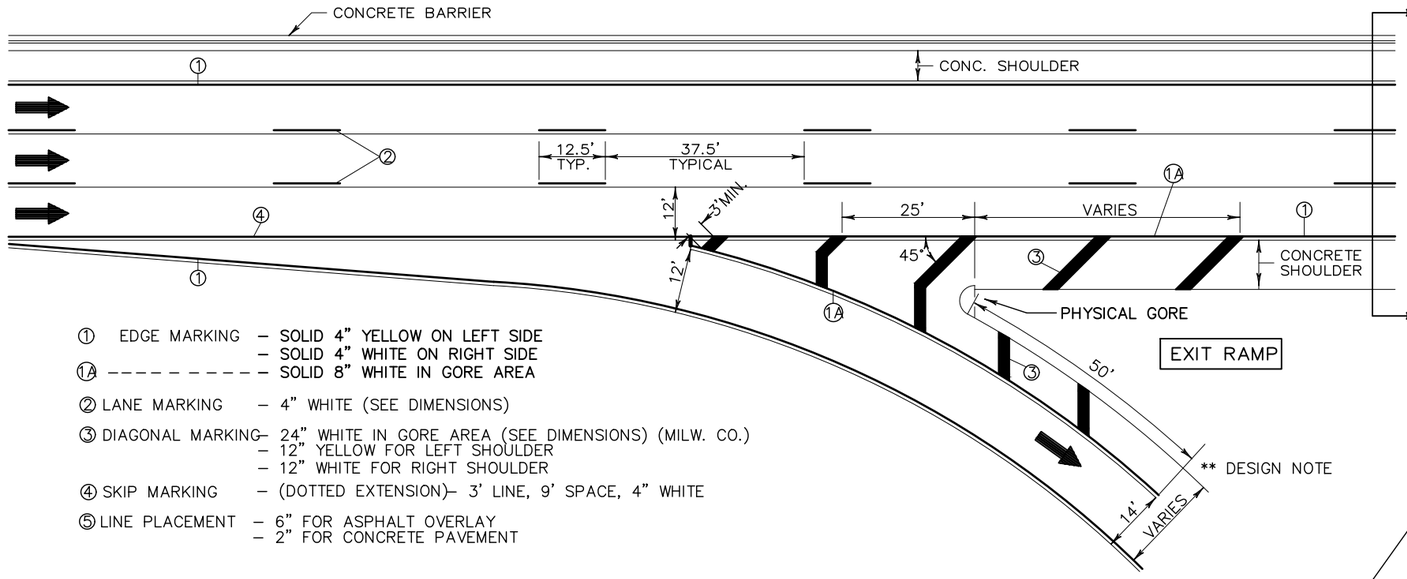
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS, WITH LANE CLOSED SIGN.

REFER TO DETOUR ROUTES FOR TRAFFIC CLOSING SIGNS.

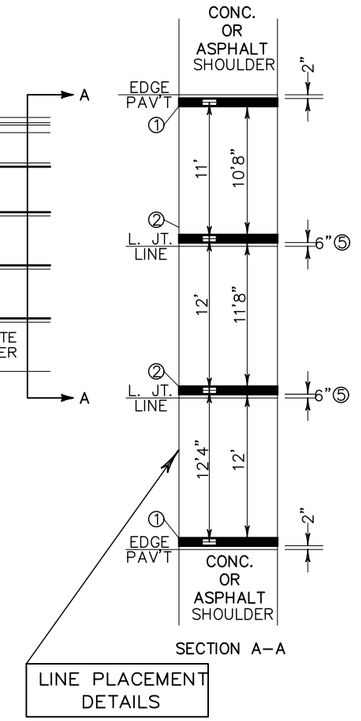
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL DETAIL	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021009-CD.DWG
LAYOUT NAME - THREE LANE CLOSURE
PLOT DATE : 10/15/2019 6:20 AM PLOT BY : SANTIAGO PEREZ, EDGAPLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

DETAIL 1



① EDGE MARKING – SOLID 4" YELLOW ON LEFT SIDE
– SOLID 4" WHITE ON RIGHT SIDE
①A – – – – – – – – – – SOLID 8" WHITE IN GORE AREA
② LANE MARKING – 4" WHITE (SEE DIMENSIONS)
③ DIAGONAL MARKING – 24" WHITE IN GORE AREA (SEE DIMENSIONS) (MILW. CO.)
– 12" YELLOW FOR LEFT SHOULDER
– 12" WHITE FOR RIGHT SHOULDER
④ SKIP MARKING – (DOTTED EXTENSION)– 3' LINE, 9' SPACE, 4" WHITE
⑤ LINE PLACEMENT – 6" FOR ASPHALT OVERLAY
– 2" FOR CONCRETE PAVEMENT

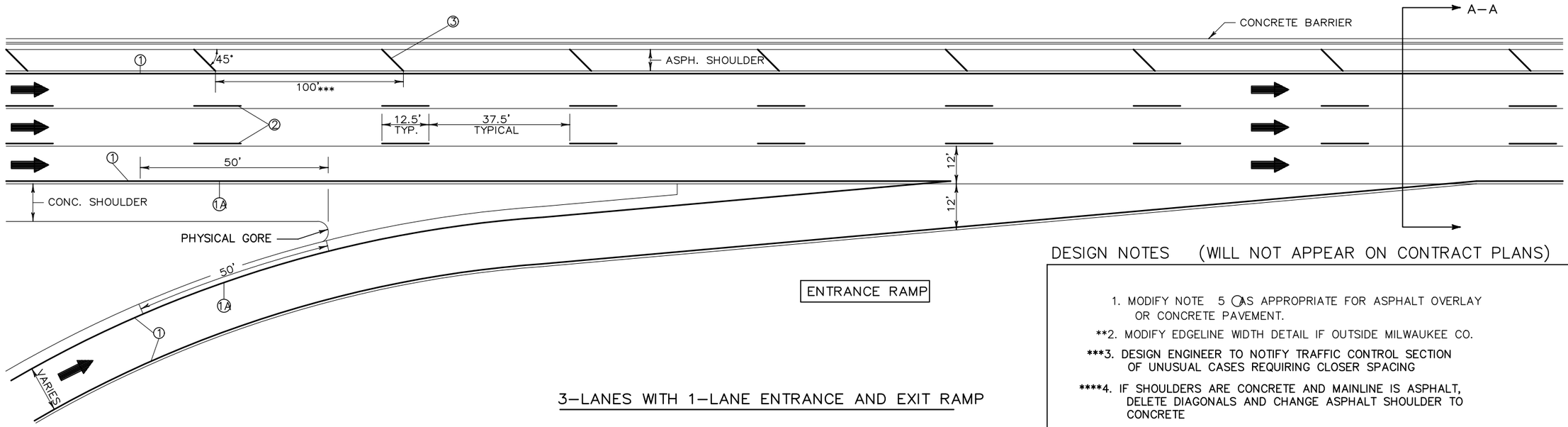


SECTION A–A

LINE PLACEMENT DETAILS

NOTES:

1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



3–LANES WITH 1–LANE ENTRANCE AND EXIT RAMP

DESIGN NOTES (WILL NOT APPEAR ON CONTRACT PLANS)

1. MODIFY NOTE 5 ⓐ AS APPROPRIATE FOR ASPHALT OVERLAY OR CONCRETE PAVEMENT.

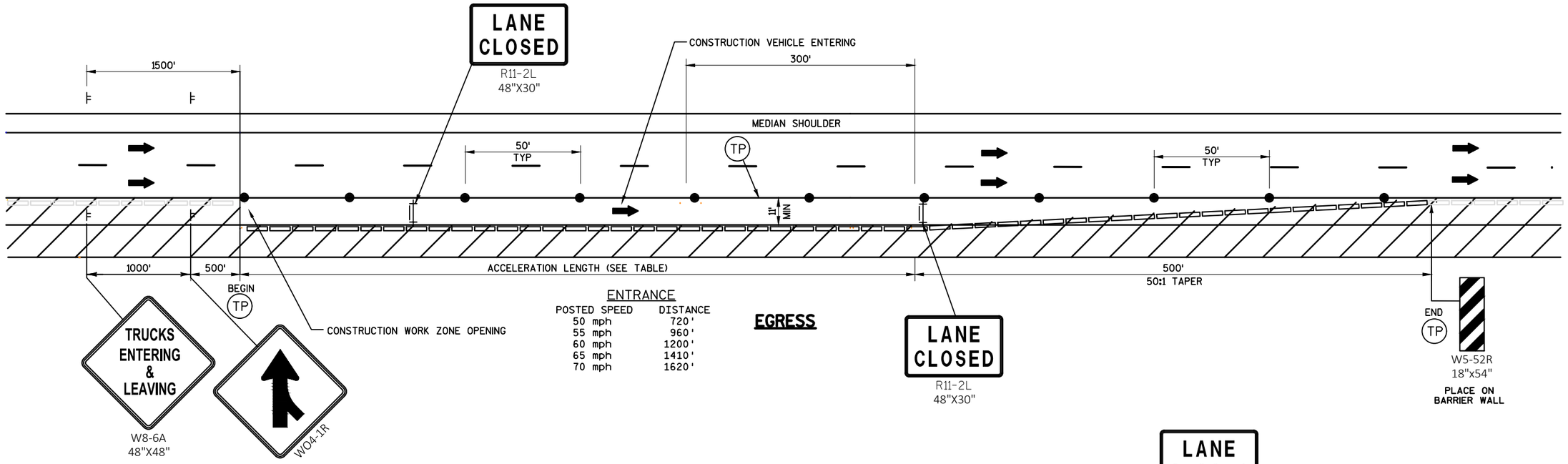
**2. MODIFY EDGELINE WIDTH DETAIL IF OUTSIDE MILWAUKEE CO.

***3. DESIGN ENGINEER TO NOTIFY TRAFFIC CONTROL SECTION OF UNUSUAL CASES REQUIRING CLOSER SPACING

****4. IF SHOULDERS ARE CONCRETE AND MAINLINE IS ASPHALT, DELETE DIAGONALS AND CHANGE ASPHALT SHOULDER TO CONCRETE

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PAVEMENT MARKING DETAIL	SHEET E

PRE_45



WORK ZONE INGRESS/EGRESS - 4 LANE

NOTES

1. RIGHT LANE ACCESS SHOWN (MEDIAN LANE ACCESS SIMILAR).
2. WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.
3. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
4. TEMPORARY SUPPORTS MAYBE USED IF PLACED BEHIND TEMPORARY BARRIER WALL.
5. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
6. THE "WO" SINGS ARE THE SAME AS "W" SIGNS.
7. TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.
8. FREE FLOW TRAFFIC LANES SHALL BE A MINIMUM WIDTH OF ELEVEN FEET AND ACCOMMODATE A ONE FOOT SHY DISTANCE FROM TRAFFIC CONTROL DEVICES.
9. ITEMS ON THIS SHEET TO BE PAID USING STANDARD BID ITEMS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	INGRESS/EGRESS	SHEET E

PRE_46

2

(A) HMA PAVEMENT 4 SMA 58-28 H, 1 3/4-INCH OVER
HMA PAVEMENT 3 HT 58-28 S, 2 1/4-INCH

(B) HMA PAVEMENT (TBD)

(CP13) CONCRETE PAVEMENT 10-INCH, DOWELED AND TINED

(CP19) CONCRETE PAVEMENT 12 1/2-INCH, DOWELED AND TINED

(PV01) CONCRETE PAVEMENT APPROACH SLAB

(CG16) CONCRETE CURB AND GUTTER 31-INCH

(CG22) CONCRETE CURB PEDESTRIAN

(CG30) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A

(CG33) CONCRETE CURB AND GUTTER 4-INCH SLOPED 60-INCH TYPE A

(CG38) CONCRETE CURB AND GUTTER 36-INCH TYPE CRASH CUSHION APPROACH

(CM07) CONCRETE SIDEWALK 5-INCH

(CB02) CONCRETE BARRIER TYPE S42

(CB06) CONCRETE BARRIER TYPE S42C

(CB09) CONCRETE BARRIER SINGLE-FACED 32-INCH

(CBXX) CONCRETE BARRIER TRANSITION (TYPE TBD)

(BG16) MGS THRIE BEAM TRANSITION

(BG17) MGS GUARDRAIL TERMINAL EAT

(BG23) CRASH CUSHION PERMANENT LOW MAINTENANCE TL3

2

2

N

W MESSMER STREET

N 9TH STREET

WETLAND BOUNDARY

POTENTIAL NOISE WALL

925GBB2 926GBB2 927GBB2 928GBB2 929GBB2 930GBB2

R/L GBB2

IH 43 SB

A

BEGIN CONSTRUCTION STA 926+40.00

SB PGL

CP19

CB09

R/L IH 43

925 926 927 928 929 930

MATCHLINE 930+65

NB PGL

EXISTING B-40-74

IH 43 NB

928GBA2 929GBA2 930GBA2

R/L GBA2

R/W

POTENTIAL NOISE WALL

W CAPITOL DRIVE

W MESSMER STREET

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_48

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 1:16 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 934+90 GBB2

N

N 9TH STREET

POTENTIAL NOISE WALL

931GBB2

932GBB2

933GBB2

934GBB2

RAMP GBB2

R/L GBB2

SLOPE INTERCEPT

SIGN

MH

INL

W

A

CG30

CP19

8'

12'

PV01

MATCHLINE 930+65

SB PGL

IH 43 SB

CB09

931

932

933

934

935

936

BEGIN PROJECT
STA 934+50.00

NB PGL

R/L IH 43

IH 43 NB

EXISTING B-40-116

937GBA2

931GBA2

932GBA2

RAMP GBA2

933GBA2

934GBA2

935GBA2

936GBA2

R/L GBA2

R/W

POTENTIAL NOISE WALL

MATCHLINE 936+40

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_49

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 1:16 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE 936+35 GBC

MATCHLINE 939+40 GBA2

B-40-1014

939GBA

937GBC

SLOPE INTERCEPT

R-40-710

BEGIN R-40-710
STA 939+20.23 GBC

WETLAND BOUNDARY

R/W

TLE

R/W

N

END R-40-707
STA 940+47.13

R/L GBC

CB02

R-40-707

R-40-711

PV01

CP13

8'

15'

4'

938GBC

939GBC

940GBC

941GBC

CP19

RAMP GBC

R-40-710

END R-40-710
STA 937+63.88 GBC

BG23

CB02

R/L GBA2

RAMP GBA2

CBXX

CP19

10'

12'

12'

12'

8'

938GBA2

PV01

IH 43 SB

R/L IH 43

SB PGL

8'

937

938

939

940

941

CP19

CB09

12'

NB PGL

IH 43 NB

MATCHLINE 936+40

MATCHLINE 941+65

PV01

B-40-116

CG30

CG33

CP19

940GBD

941GBD

939GBD

938GBD

937GBD

RAMP GBD

5'

6'

8'

BEGIN R-40-706
STA 939+42.96 GBD

R-40-706

R/W

TLE

CP13

CB02

BG16

BG17

R/L GBD

MATCHLINE 936+65 GBD

CG30

SLAB

MH

INL

SIGN

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_50

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 1:17 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SLOPE INTERCEPT

WETLAND BOUNDARY

TLE

R/W

N

R/L GBC

S-40-3021

R-40-707

SIGN

STORAGE

CP19

942GBC

IH 43 SB

SB PGL

S-40-3022

R/L IH 43

CB09

CB02

MATCHLINE 941+65

MATCHLINE 947+40

941

942

943

944

945

946

947

12'

10'

15.25'

NB PGL

IH 43 NB

943GBD

944GBD

942GBD

15'

R/W

INL

S-40-3018

TLE

R-40-706

R/L GBD

WETLAND BOUNDARY

MH

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_51

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 04

PLOT DATE : 2/14/2020 1:17 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

STORAGE

N

TLE

WETLAND BOUNDARY

R/W

SLOPE INTERCEPT

R-40-707

IH 43 SB

SB PGL

R/L IH 43

MATCHLINE 947+40

948

949

CB02

950

951

952

MATCHLINE 952+65

CP19

10'

12'

12'

12'

12'

12'

12'

15.25'

15.25'

12'

12'

12'

12'

12'

8'

2'

NB PGL

IH 43 NB

R-40-706

END R-40-706
STA 948+86.96

R/W

TLE

CB02

WETLAND BOUNDARY

R/W

WETLAND BOUNDARY

STORAGE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_52

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 1:17 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

RAMP

TLE

TLE

TLE

R/W

R-40-707

R/W

R/W

TLE

R/W

WETLAND BOUNDARY

BEGIN R-40-707
STA 957+48.21

2'

8'

CP19 10'

CP19 12'

CP19 12'

CP19 12'

CP19 12'

CP19 12'

CP19 12'

CP19 15.25'

CP19 12'

CP19 12'

CP19 12'

CP19 12'

CP19 12'

CP19 10'

MH

IH 43 SB

SB PGL

R/L IH 43

MATCHLINE 952+65

953

954

955

956

957

MATCHLINE 957+65

CB02

NB PGL

IH 43 NB

8'

2'

R/W

CB02

BEGIN R-40-713
STA 954+75.00

R/W

MH

SIGN

R-40-713

SLOPE INTERCEPT

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_53

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 1:18 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

WETLAND BOUNDARY

R/W

R/W

R/W

SLOPE INTERCEPT

CB02

END R-40-713
STA 961+73.85

R-40-713

2'

8'

CP19

12'

CP19

12'

CP19

12'

IH 43 SB

CP19

12'

CP19

12'

CP19

12'

SB PGL

15.25'

R/L IH 43

MATCHLINE 957+65

958

959

960

961

CB02

962

963

MATCHLINE 963+15

CP19

12'

CP19

12'

CP19

12'

IH 43 NB

NB PGL

CP19

12'

CP19

10'

960HAA

961HAA

962HAA

RAMP HAA

15'

8'

963HAA

S-40-3019

R/L HAA

R-40-713

R/W

R/W

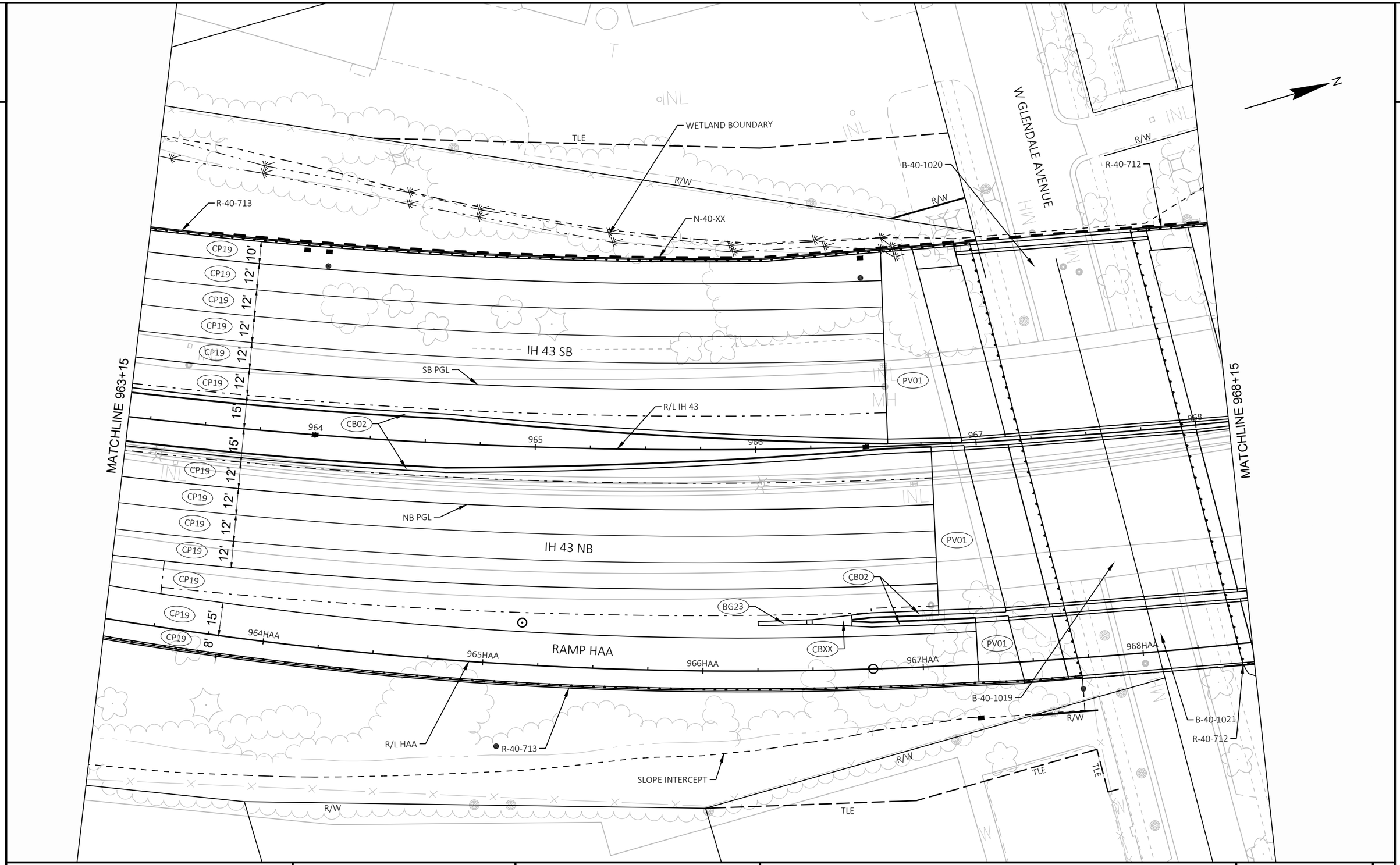
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 07

PLOT DATE : 2/14/2020 1:18 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_54

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 08

PLOT DATE : 2/14/2020 1:19 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_55

2

2

N

R/W

SLOPE INTERCEPT

N-40-XX

R/L HAB

BEGIN R-40-712
STA 968+79.01

R-40-712

CB02

S-40-3020

2'

8'

970HAB

971HAB

CP19

972HAB

973HAB

15'

RAMP HAB

CP19

CP19

12'

12'

12'

12'

IH 43 SB

PV01

SB PGL

S-40-3023

R/L IH 43

CP19

CP19

10'

2'

CB02

970

971

972

973

CP19

6.5'

10'

2'

CP19

12'

MATCHLINE 968+15

MATCHLINE 973+65

PV01

NB PGL

IH 43 NB

CP19

CP19

CP19

CP19

CP19

12'

12'

12'

12'

12'

BEGIN R-40-709
STA 968+30.30

CP13

4'

CB02

R-40-709

PV01

CP13

15'

969HAA

970HAA

971HAA

972HAA

973HAA

RAMP HAA

8'

CP13

R-40-712

R/L HAA

MATCHLINE 973+60 HAA

R/W

R/W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 09

PLOT DATE : 2/14/2020 1:19 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_56

WISDOT/CADDS SHEET 42

2

R/W

SLOPE INTERCEPT

N-40-XX

CB02

CP13

CP13

976HAB

977HAB

978HAB

PV01

MATCHLINE 978+65 HAB

B-40-67

12'

13.5'

3'

975HAB

RAMP HAB

CP13

R/L HAB

CG30

CP19

974HAB

CP19

B-40-1018

CP19

CP19

10'

CP19

12'

CP19

12'

IH 43 SB

CP19

12'

SB PGL

PV01

CP19

12'

R/L IH 43

CB02

CP19

10'

2'

974

975

976

977

978

CP19

2'

10'

6.5'

CP19

12'

MATCHLINE 973+65

CP19

12'

NB PGL

CP19

12'

IH 43 NB

CP19

12'

PV01

R-40-709

CP19

12'

CB02

B-40-1016

END R-40-709
STA 976+83.78

MILWAUKEE RIVER

RIPRAP

MATCHLINE 978+90

N

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_57

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 10

PLOT DATE : 2/14/2020 1:19 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCHLINE 13+40 HA

N

OAK LEAF TRAIL

W HAMPTON AVENUE

R/W

B

14HA

15HA

16HA

17HA

INL

BG16

CB02

CP19

PV01

SB PGL

NB PGL

10'

12'

25'

15'

2'

B-40-1018

IH 43 SB

R/L IH 43

979

980

981

982

983

984

RIPRAP

MATCHLINE 978+90

MATCHLINE 984+40

IH 43 NB

B-40-1016

MILWAUKEE RIVER

WETLAND BOUNDARY

CM07

CG16

SLOPE INTERCEPT

EXISTING
BUS STOP

MH

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_58

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 11

PLOT DATE : 2/14/2020 1:20 PM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

2

N

R/W

R/W

SLOPE INTERCEPT

BG17

CG30

IH 43 SB

CP19

CP19

CP19

CP19

CP19

10'

12'

12'

12'

12'

SB PGL

R/L IH 43

MATCHLINE 984+40

MATCHLINE 989+65

CB02

985

986

987

988

989

15.25'

5.25'

CP19

CP19

CP19

CP19

CP19

12'

12'

12'

12'

10'

NB PGL

IH 43 NB

CB02

CG30

CG16

B

FLAG

SLAB

SLAB

R/W

R/W

N PORT WASHINGTON ROAD

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_59

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 12

PLOT DATE : 2/14/2020 1:20 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MATCHLINE 989+65

MATCHLINE 994+65

CG30

R/W

CP19

10'

12'

12'

12'

12'

2'

IH 43 SB

SB PGL

R/L IH 43

CB02

990

991

992

993

994

CP19

12'

12'

12'

12'

10'

2'

NB PGL

IH 43 NB

SIGN

MH

CG30

SLOPE INTERCEPT

MH

R/W

EXISTING BUS STOP

N PORT WASHINGTON ROAD

INL

SLAB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 13

PLOT DATE : 2/14/2020 1:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_60

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 994+65

MATCHLINE 1000+15

CG30

R/W

CB06

R/W

2'

CP19

10'

12'

12'

12'

8'

8'

IH 43 SB

CB02

SB PGL

R/L IH 43

995

996

997

998

999

1000

2'

2'

NB PGL

CP19

CP19

CP19

CP19

CP19

CP19

CP19

CP19

12'

12'

12'

10'

2'

IH 43 NB

CB02

SLOPE INTERCEPT

BG17

BG16

R/W

N PORT WASHINGTON ROAD

W MARNE AVENUE

INL

SLAB

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 14

PLOT DATE : 2/14/2020 1:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_61

WISDOT/CADDS SHEET 42

2

2

N

OAK LEAF TRAIL

MATCHLINE 1000+15

MATCHLINE 1005+65

CB06

R/W

EXISTING
B-40-51

CB02

CP19

SB PGL

4.75'

IH 43 SB

R/L IH 43

2'

10'

12'

12'

12'

12'

END PROJECT
STA 1003+57.82

1001

1002

1003

1004

1005

4.25'

NB PGL

IH 43 NB

SLOPE INTERCEPT

EXISTING BUS STOP

SLAB

N PORT WASHINGTON ROAD

EXISTING
B-40-994

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_62

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 15

PLOT DATE : 2/14/2020 1:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

WETLAND BOUNDARY

INL

FLAG

IH 43 SB

R/L IH 43

1006

1007

1008

1009

1010

1011

11'

11'

B

B

CB02

MATCHLINE 1005+65

MATCHLINE 1011+15

IH 43 NB

SIGN

N PORT WASHINGTON ROAD

MH

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_63

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 16

PLOT DATE : 2/14/2020 1:22 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N IRONWOOD ROAD

IH 43 SB

MATCHLINE 1011+15

CB02

B

B

1012

1013

1014

1015

1016

11'

11'

END CONSTRUCTION
STA 1012+91.53

IH 43 NB

R/L IH 43

SIGN

NB EXIT TO N PORT WASHINGTON ROAD

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_64

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 17

PLOT DATE : 2/14/2020 1:22 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

N 10TH STREET

N GREEN BAY AVENUE

RAMP GBA2

RAMP GBB2

RAMP GBC

R/L GBA2

R/L GBB2

R/L GBC

MATCHLINE 939+40 GBA2

MATCHLINE 936+35 GBC

MATCHLINE 934+90 GBB2

SLOPE INTERCEPT

END R-40-711
STA 935+79.99 GBC

BEGIN R-40-711
STA 936+04.87 GBC

R-40-711

EXISTING BUS STOP

EXISTING BUS STOP

CG16 CG22 CM07 CG30 CP13 CB02 CG33 PV01

931GBC 932GBC 933GBC 934GBC 935GBC 936GBC

937GBB2 938GBB2 939GBB2 940GBB2 941GBB2 942GBB2 943GBB2 944GBA2

940GBA2 941GBA2 942GBA2 943GBA2

B

15'

6'

4'

TLE R/W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_65

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 18

PLOT DATE : 2/14/2020 1:22 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N 8TH STREET

R/W

POTENTIAL NOISE WALL

N

CG33

R/L GBD

CM07

CG16

CG30

CP13

933GBD

934GBD

RAMP GBD

4'

15'

6'

935GBD

936GBD

CG22

932GBD

931GBD

SLOPE INTERCEPT

MATCHLINE 936+65 GBD

W FIEBRANTZ AVENUE

TILE

N 7TH STREET

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 19

PLOT DATE : 2/14/2020 1:23 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_66

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 973+60 HAA

CP13

CP13

CP13

12'

12'

RAMP HAA

974HAA

975HAA

976HAA

977HAA

978HAA

CB02

R/W

R/W

R-40-712

END R-40-712
STA 974+57.75 HAA

CP13

CB02

R/L HAA

CG24

CP13

SLOPE INTERCEPT

CG30

RIPRAP

MILWAUKEE RIVER

PROPOSED BUS STOP

CM07

EXISTING B-40-10

R/W

R/W

R/W

CP13

CM07

CG22

CM07

CM07

CM07

B

CG16

CG16

CG16

CM07

N PORT WASHINGTON ROAD

EXISTING BUS STOP

RIPRAP

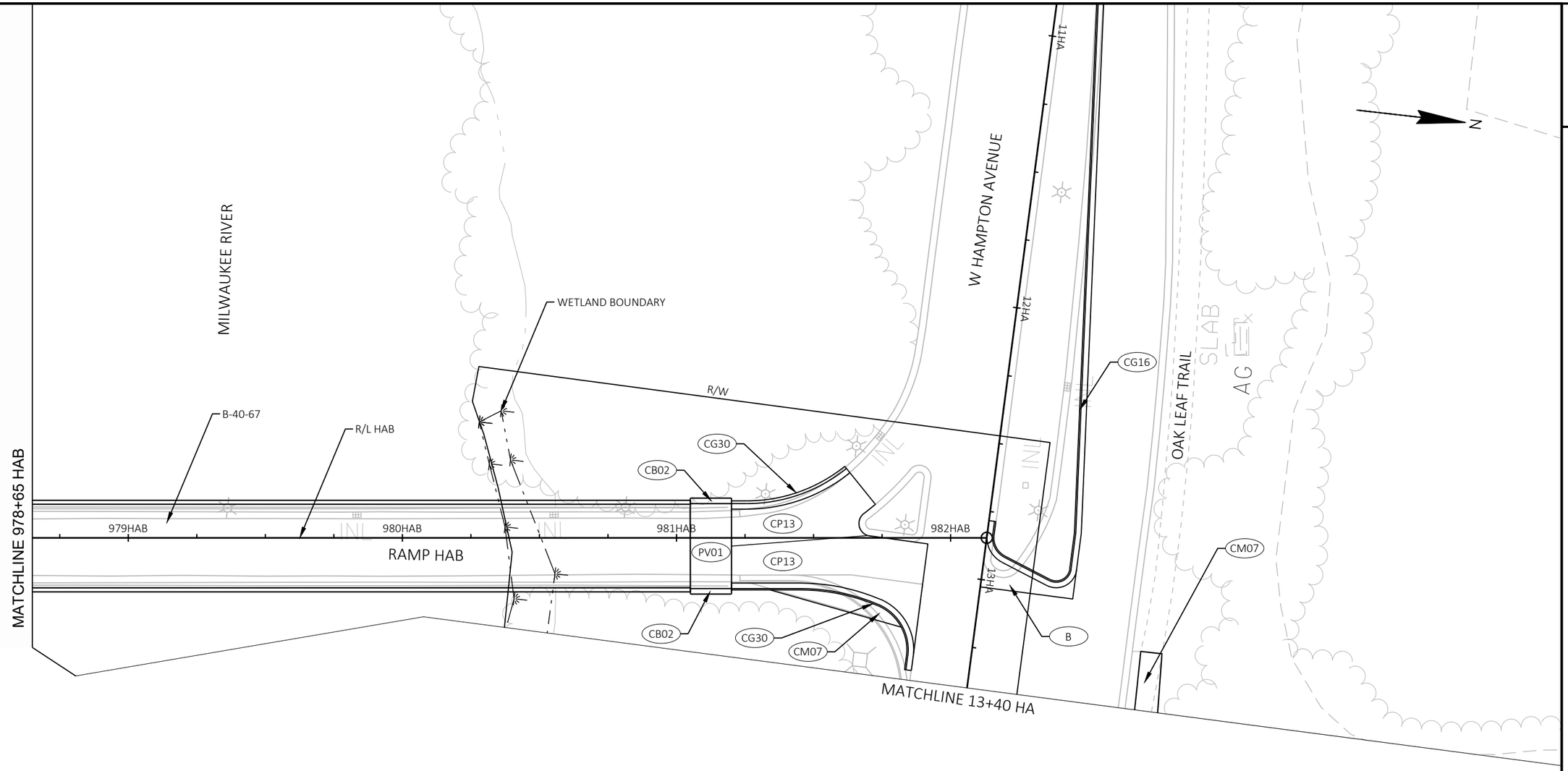
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_67

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 20

PLOT DATE : 2/14/2020 1:23 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_68

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 21

PLOT DATE : 2/14/2020 1:24 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

FTMS CONVENTIONAL SYMBOLS

PROPOSED

POLE MOUNTED CABINET

METER BREAKER PEDESTAL

24X42-INCH CSCP PULL BOX

FTMS (ITS) CONDUIT

BREAKER DISCONNECT BOX

COMMUNICATIONS VAULT, TYPE 1

TYPE 5 POLE AND MICROWAVE DETECTOR

MICROWAVE VEHICLE DETECTOR DETECTION ZONE

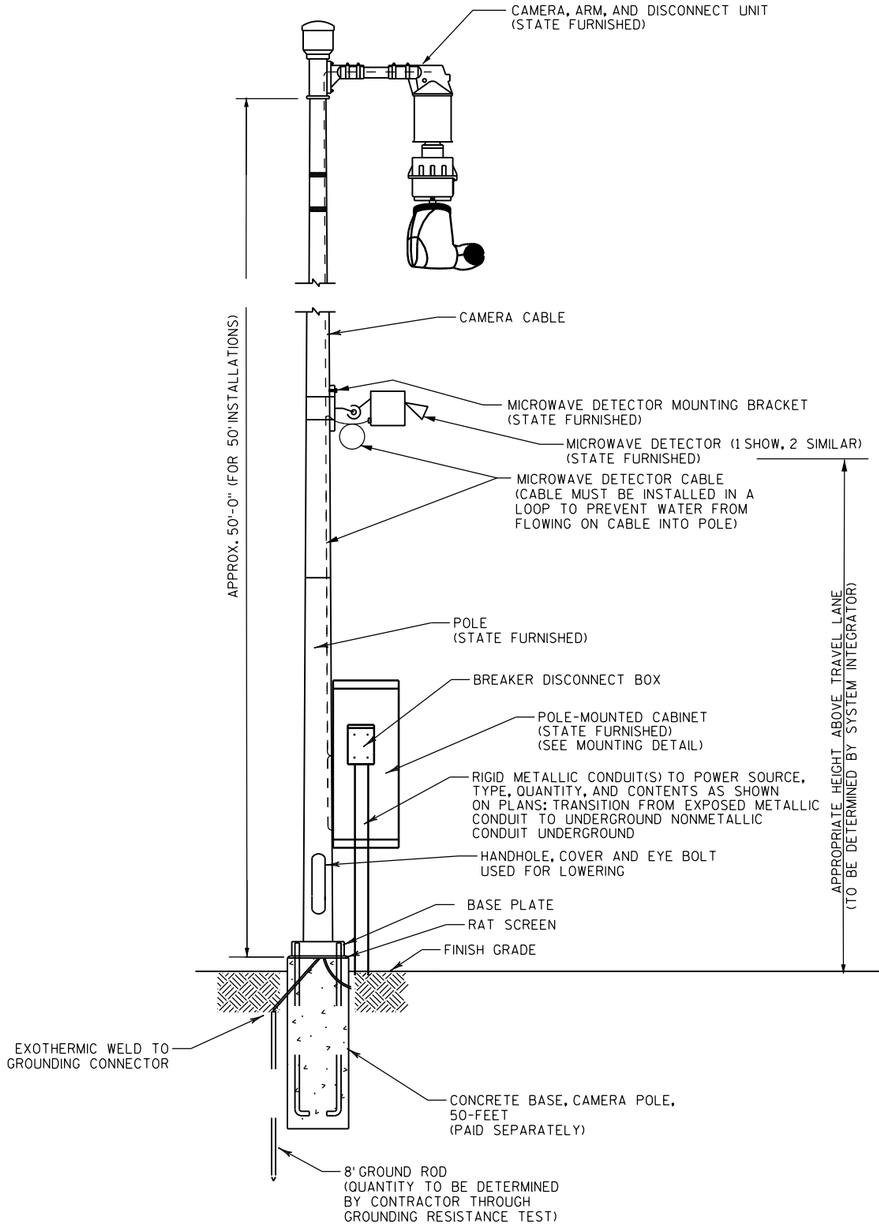
CLOSED CIRCUIT TELEVISION CAMERA

FTMS STANDARD ABBREVIATIONS

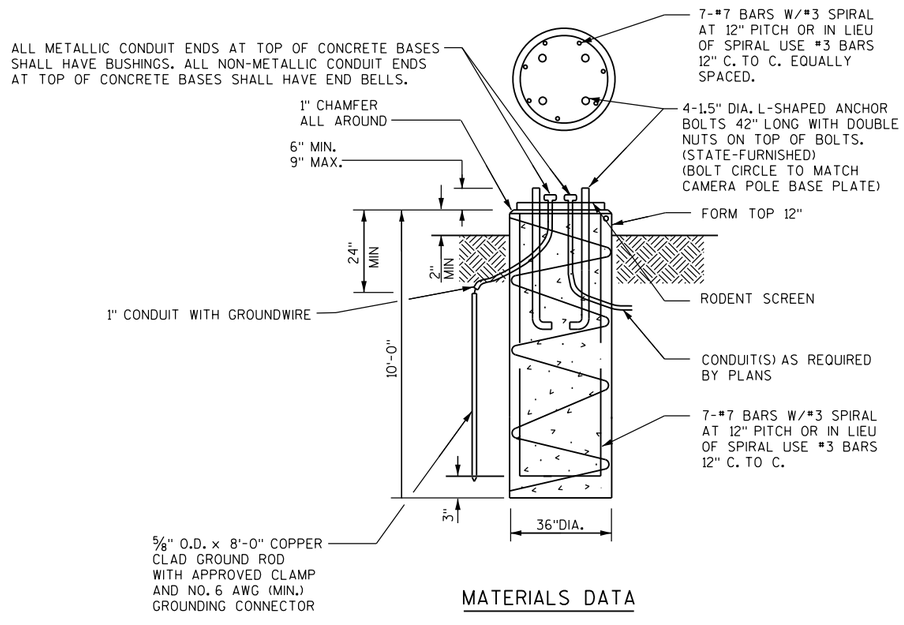
CB	CONTROLLER CABINET
CCTV	CLOSED CIRCUIT TELEVISION SITE
CV	COMMUNICATIONS VAULT
PB	PULL BOX
EX	EXISTING
SDS	SYSTEM DETECTOR STATION
FOC	FIBER OPTIC CABLE
F.O.	FIBER OPTIC
MD	MICROWAVE DETECTOR
S-F	STATE-FURNISHED
DMS	DYNAMIC MESSAGE SIGN

FTMS GENERAL NOTES

1. THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.
2. BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
3. BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
4. NO TREES (AND/OR SHRUBS) SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
5. AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND EROSION MAT, AND SHALL BE INCLUDED IN THE COST OF INSTALLING FTMS ITEMS. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION SHALL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
7. DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.
8. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.
9. THE CONTRACTOR SHALL CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.
10. ALL LOOP DETECTORS ARE STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.
11. HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.
12. VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.



CAMERA POLE WITH CAMERA LOWERING HARDWARE

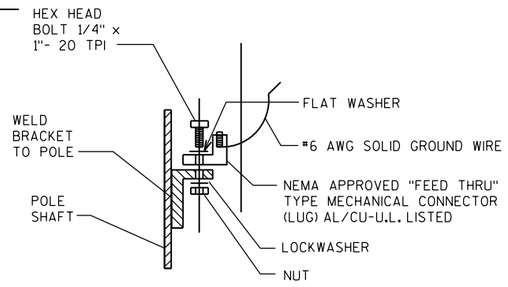


MATERIALS DATA

CONCRETE	f'c=3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

CONCRETE BASE, 50' CAMERA POLE

NOT TO SCALE



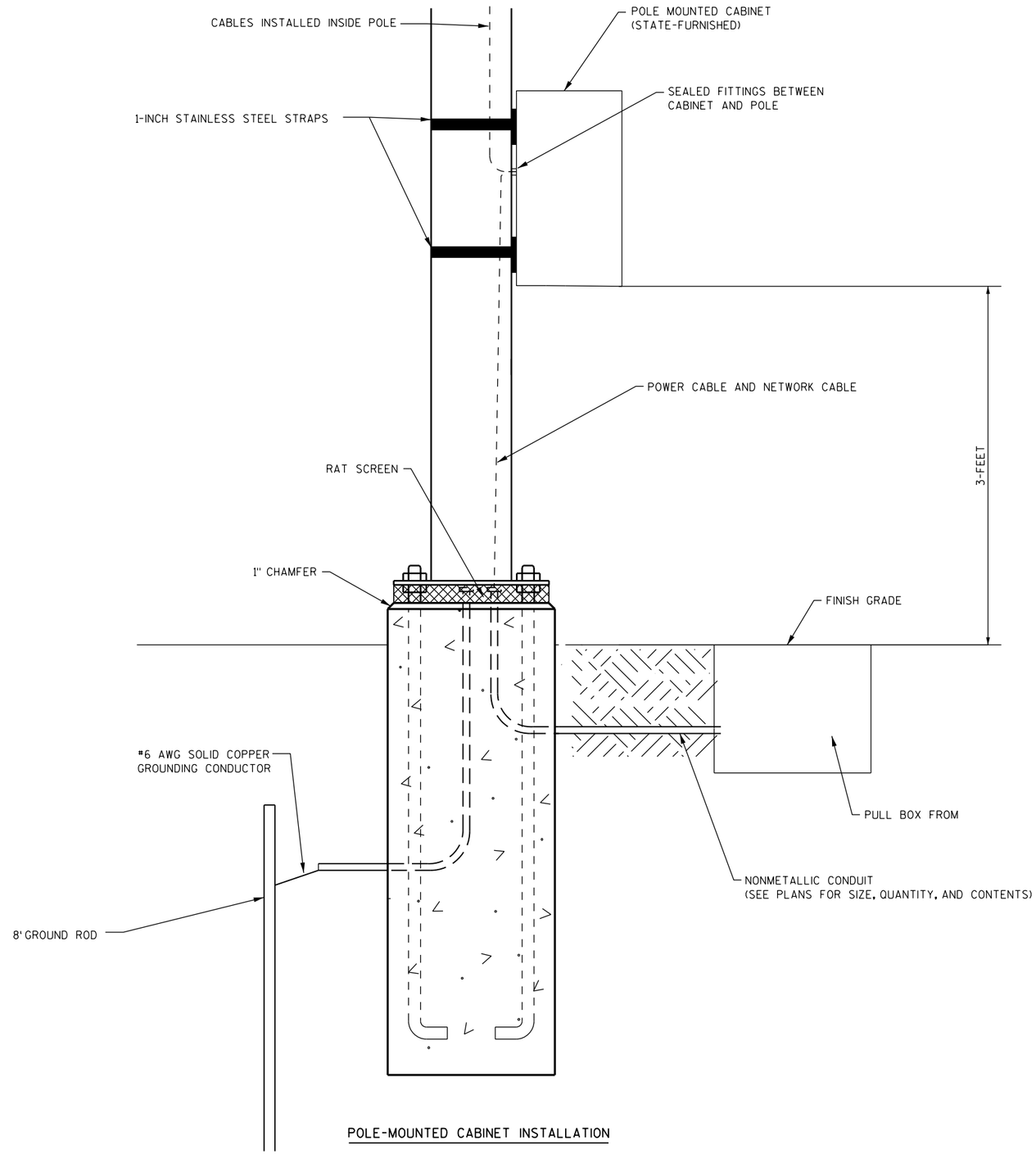
FIELD INSTALLED GROUNDING LUG

NOTES

1) ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2) POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE STATE FURNISHED. BASE TO BE CONTRACTOR DESIGNED.
3) CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4) CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN

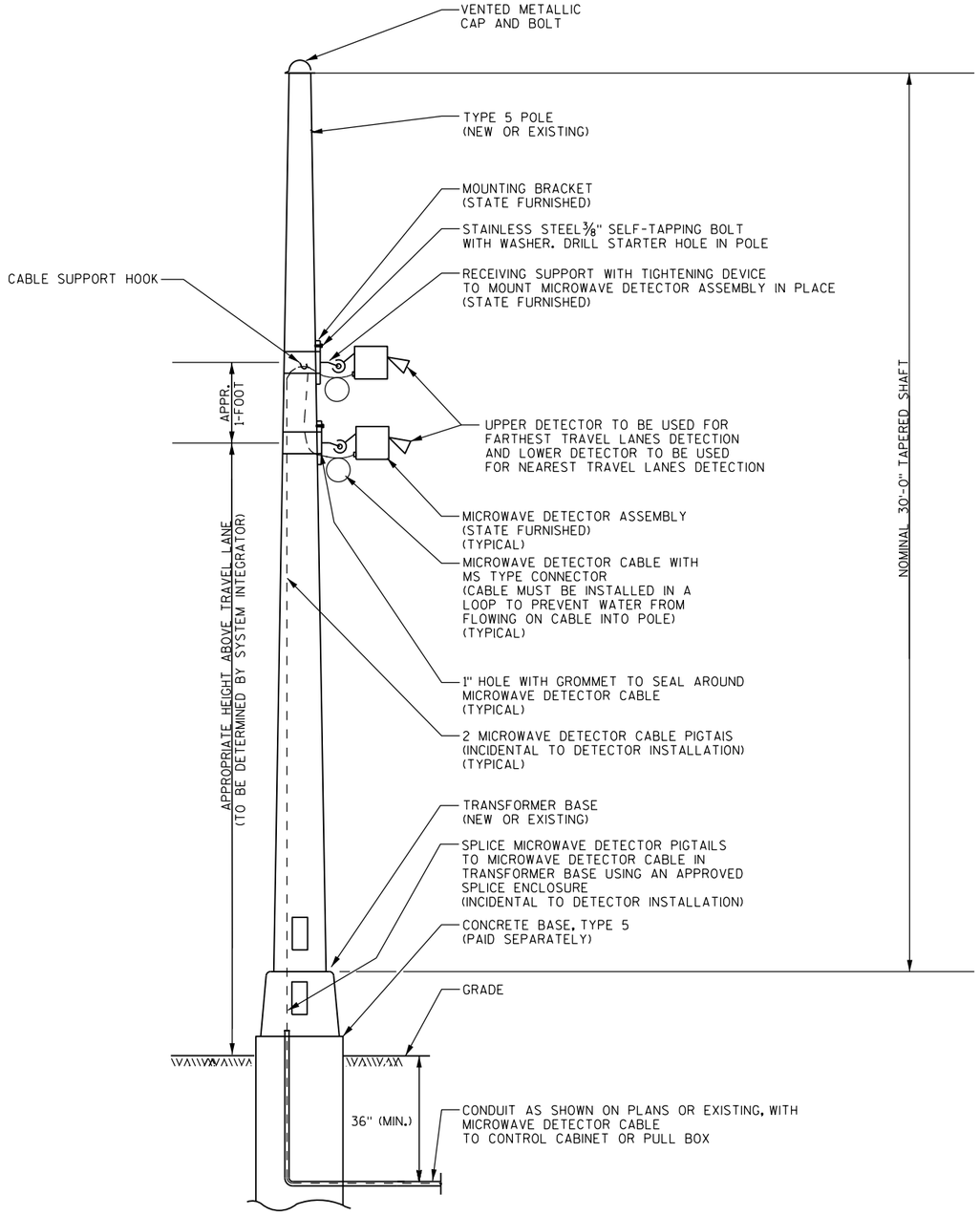
CAMERA POLES & FOUNDATIONS

2



POLE-MOUNTED CABINET INSTALLATION

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS CONSTRUCTION DETAILS	SHEET PRE_71	E



MICROWAVE DETECTOR INSTALLATION
ON TYPE 5 POLE

2

N

MATCHLINE STA 939+25

(3) 2-INCH HDPE DUCTS
IN ROADWAY BARRIER

18X12X6
JUNCTION BOX

CV938

938

(3) 2-INCH HDPE DUCTS

CCTV-40-0076 AND SDS-40-XXXX
(1) 50-FOOT CAMERA POLE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) CCTV CAMERA (S-F)
(2) MICROWAVE VEHICLE DETECTORS (S-F)

PB936-2

CV936

(2) 2-INCH NONMETALLIC CONDUITS

PB936-1

936

3"

(2) 2-INCH NONMETALLIC CONDUITS

RAMP GBC

RAMP GBD

(3) 2-INCH HDPE DUCTS

W. FIEBRANTZ AVE.

934

IH 43 SB

IH 43 NB

RAMP GBA

CV933

N. 8TH ST.

N. 7TH ST.

N. GREEN BAY AVE.

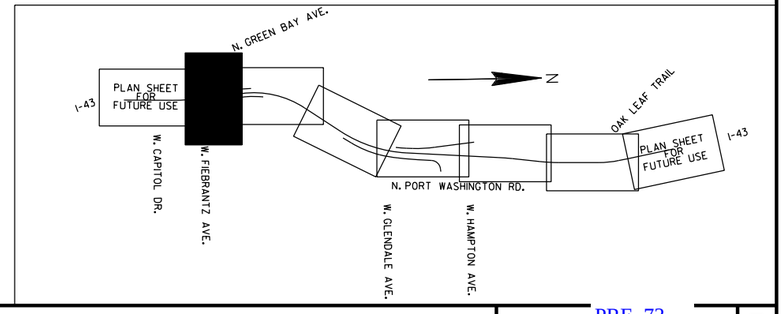
RAMP GBB

EXCB-RM-40-0060

EXMB932

932

MATCHLINE STA 931+00



PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET	E

PRE_73

2

N

MATCHLINE STA 939+25

940

942

944

946

948

950

952

IH 43 SB

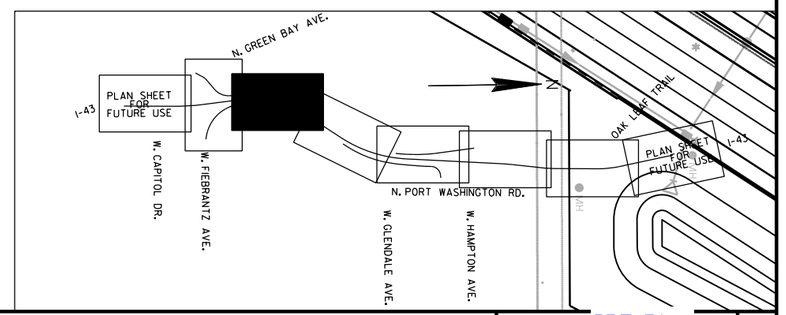
IH 43 NB

MATCHLINE STA 953+00

(3) 2-INCH HDPE DUCTS
IN ROADWAY BARRIER

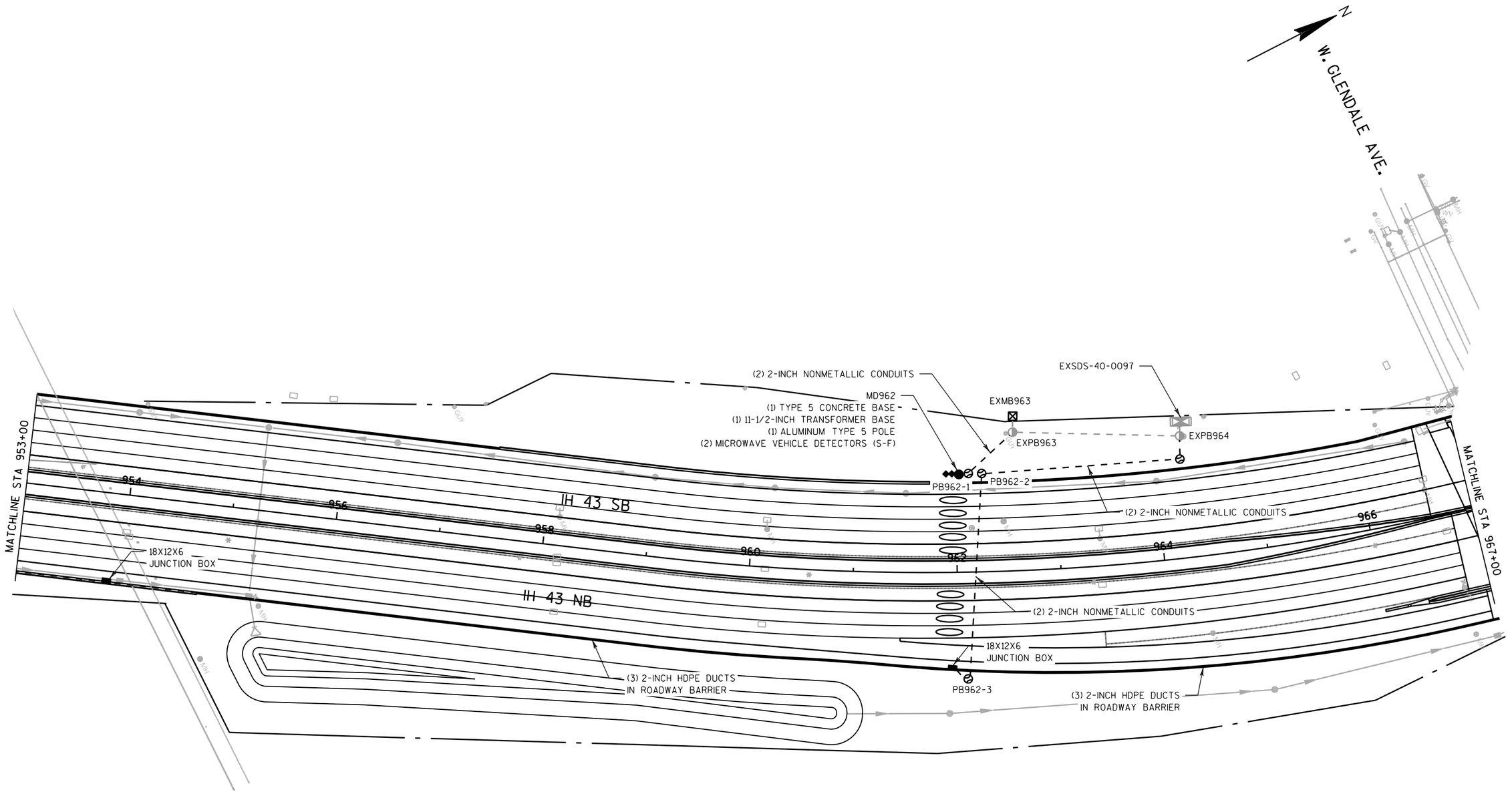
18X12X6
JUNCTION BOX

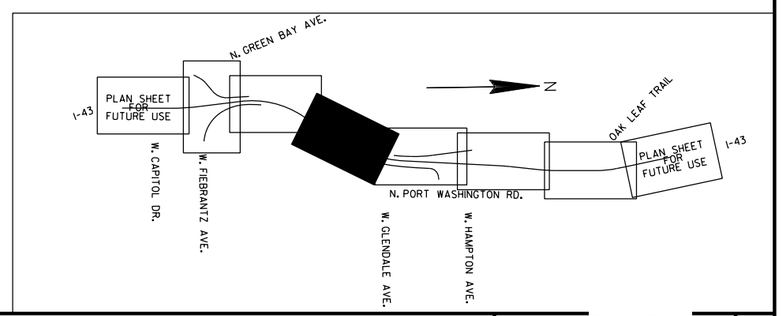
(3) 2-INCH HDPE DUCTS
IN ROADWAY BARRIER



PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET PRE_74	E

2





PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET PRE_75	E

FILE NAME : \\minw00\pmwork\Jobs\69372\t1\cds\021404_FM.dgn PLOT DATE : 2/17/2020 5:06:24 PM PLOT BY : Mdonnelly PLOT NAME : $FILE$ PLOT SCALE : 97.3529:1

2

N

(2) 2-INCH NONMETALLIC CONDUITS

(2) 2-INCH CONDUITS IN BRIDGE PARAPET

18X12X6 JUNCTION BOX

EXCB-RM-40-0015

(2) 2-INCH NONMETALLIC CONDUITS

(2) 2-INCH NONMETALLIC CONDUITS

18X12X6 JUNCTION BOX

MD973
(1) TYPE 5 CONCRETE BASE
(1) 11-1/2-INCH TRANSFORMER BASE
(1) ALUMINUM TYPE 5 POLE
(2) MICROWAVE VEHICLE DETECTORS (S-F)

(2) 2-INCH NONMETALLIC CONDUITS

EXPB975

PB976-1

PB977

PB975

SB976-1

PB973

RAMP HAB

SB976-2

PB976-2

(2) 2-INCH NONMETALLIC CONDUITS

MATCHLINE STA 967+00

968

IH 43 SB

970

972

974

(2) 2-INCH NONMETALLIC CONDUITS

976

978

980

MATCHLINE STA 981+00

IH 43 NB

18X12X6 JUNCTION BOX

18X12X6 JUNCTION BOX

18X12X6 JUNCTION BOX

CV976

RAMP HAA

W. GLENDALE AVE.

(3) 2-INCH HDPE DUCTS IN ROADWAY BARRIER

(3) 2-INCH HDPE DUCTS IN ROADWAY BARRIER

CV975

(3) 2-INCH HDPE DUCTS

(3) 2-INCH HDPE DUCTS IN ROADWAY BARRIER

(3) 2-INCH HDPE DUCTS

MILWAUKEE RIVER

N. PORT WASHINGTON RD.

N. GREEN BAY AVE.

N

PLAN SHEET FOR FUTURE USE

I-43

W. CAPITOL DR.

W. FIEBRANTZ AVE.

OAK LEAF TRAIL

PLAN SHEET FOR FUTURE USE

I-43

N. PORT WASHINGTON RD.

W. GLENDALE AVE.

W. HAMPTON AVE.

PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET PRE_76	E

2

N

(2) 2-INCH NONMETALLIC CONDUITS

FY981

PB981

MATCHLINE STA 981+00

982

984

986

988

990

992

994

MATCHLINE STA 995+50

IH 43 SB

IH 43 NB

18X12X6
JUNCTION BOX
CV985

PB985

PB987

PB988

EXPB987-2

EXPB988

EXPB987-1

EXMB987

EXCB-SDS-40-0098

MD989
(1) TYPE 5 CONCRETE BASE
(1) 11-1/2-INCH TRANSFORMER BASE
(1) ALUMINUM TYPE 5 POLE
(2) MICROWAVE VEHICLE DETECTORS (S-F)

(3) 2-INCH HDPE DUCTS

CV995

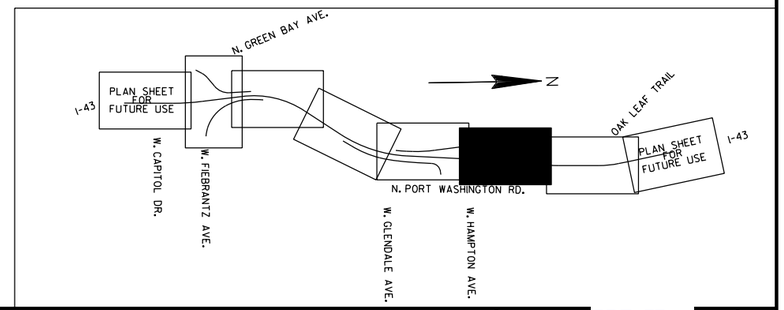
(3) 2-INCH HDPE DUCTS

(2) 2-INCH NONMETALLIC CONDUITS

CCTV-40-0077
(1) 50-FOOT CAMERA POLE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) CCTV CAMERA (S-F)
(1) POLE MOUNTED CABINET (S-F)

W. HAMPTON AVE.

N. PORT WASHINGTON RD.



PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET PRE_77	E

FILE NAME : \\minw00\pmwork\Jobs\69372\t1\cds\021406_FM.dgn PLOT DATE : 2/17/2020 5:06:42 PM PLOT BY : Mdonnelly PLOT NAME : $FILE$ PLOT SCALE : 97.3529:1

2

N

OAK LEAF TRAIL

MATCHLINE STA 995+50

IH 43 SB

IH 43 NB

996 998 1000 1002 1004 1006 1008 10

MATCHLINE STA 1010+00

EXCB-SDS-40-XXXX

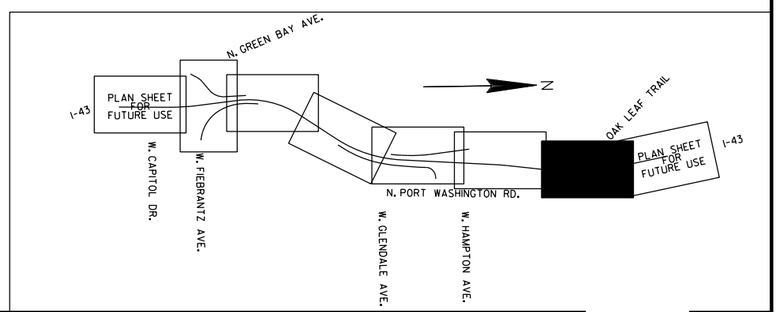
EXPB1003

EXMB1003

EXCV1004

(3) 2-INCH HDPE DUCTS

N. PORT WASHINGTON RD.



PROJECT NO:1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	FTMS PLANS	SHEET PRE_78	E

2

2

N

N 10TH STREET

N GREEN BAY AVENUE

W MESSMER STREET

N DOCTOR M.L.K. JR DRIVE

N 9TH STREET

922GBB2

924GBB2

926GBB2

928GBB2

930GBB2

922

924

926

928

930

IH 43 SB

IH 43 NB

928GBA2

930GBA2

MATCHLINE 930+50

NB EXIT TO W CAPITOL DRIVE

N 8TH STREET

W MELVINA STREET

W CAPITOL DRIVE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_79

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 01

PLOT DATE : 2/27/2020 9:20 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 930+50

MATCHLINE 934+70 GBB2

MATCHLINE 935+50 GBC

MATCHLINE 940+25 GBA2

MATCHLINE 945+50

N

RAMP GBB2

RAMP GBC

RAMP GBA2

RAMP GBD

IH 43 SB

IH 43 NB

932GBB2

934GBB2

938GBC

940GBC

942GBC

932GBA2

934GBA2

936GBA2

938GBD

940GBD

942GBD

944GBD

936GBD

932GBD

932

934

936

938

940

942

N 8TH STREET

N 7TH STREET

FIEBRANTZ AVENUE

SIGN

CANOPY

INL

MH

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

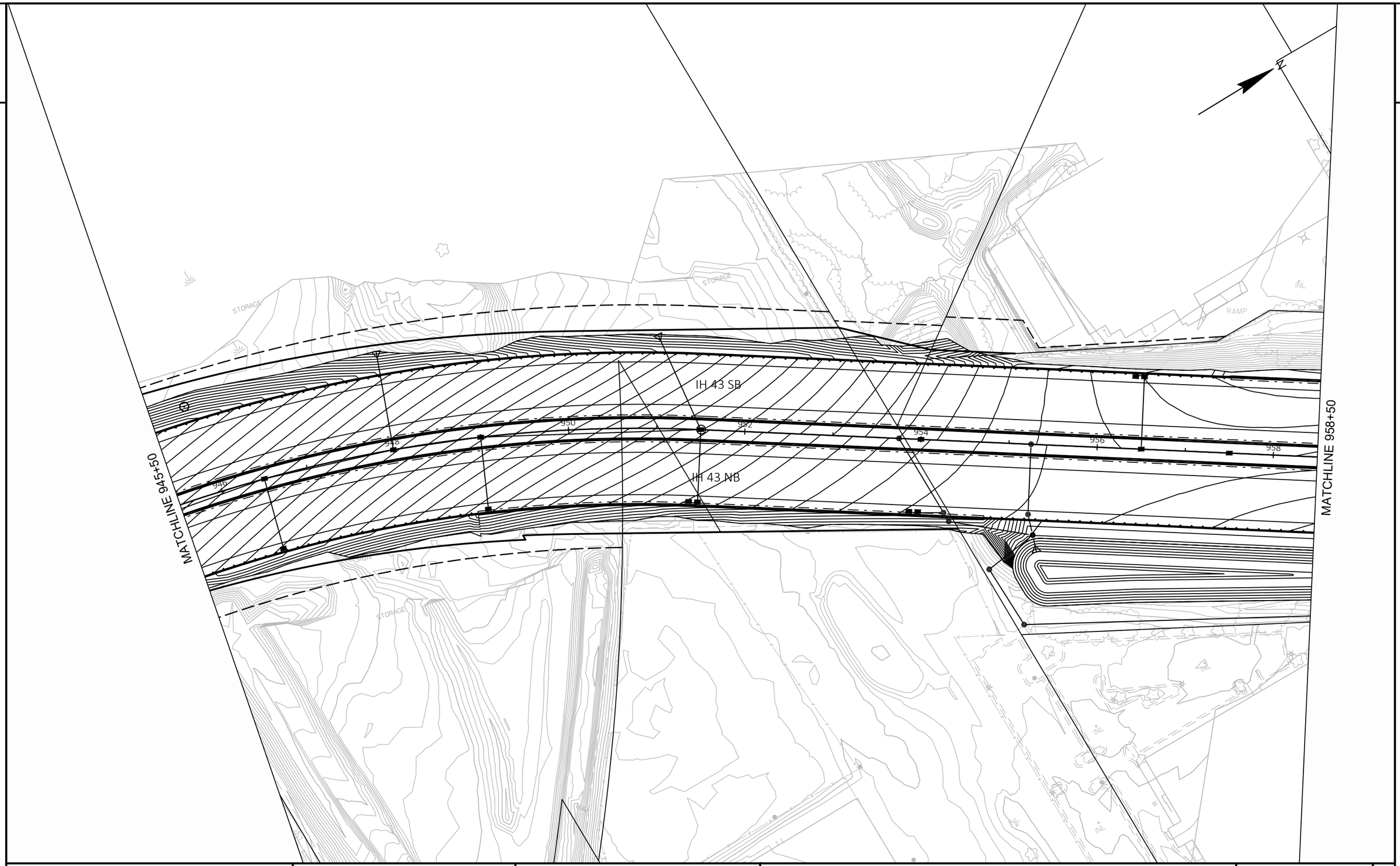
PRE_80

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 02

PLOT DATE : 2/27/2020 9:21 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



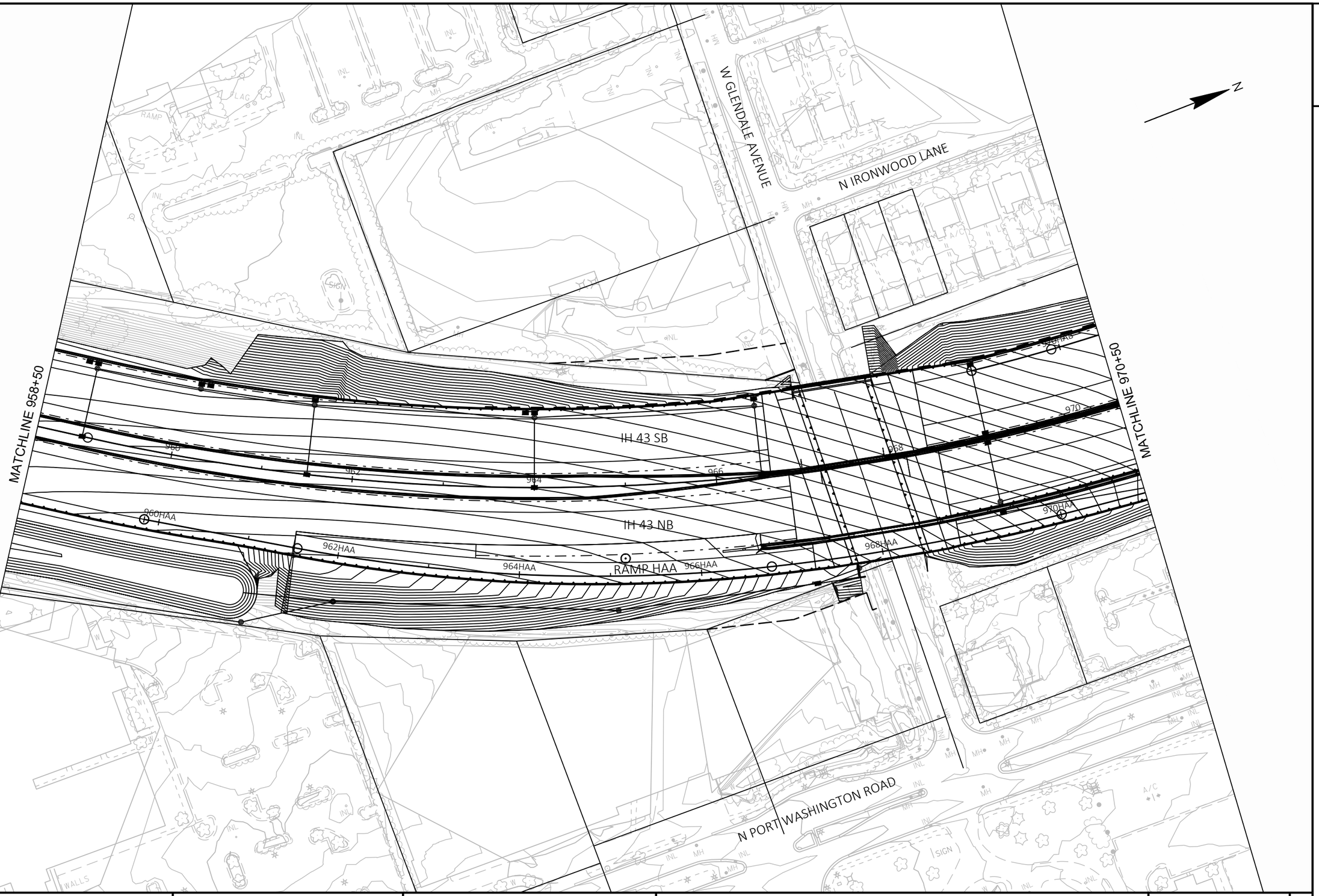
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_81

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 03

PLOT DATE : 2/27/2020 9:21 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

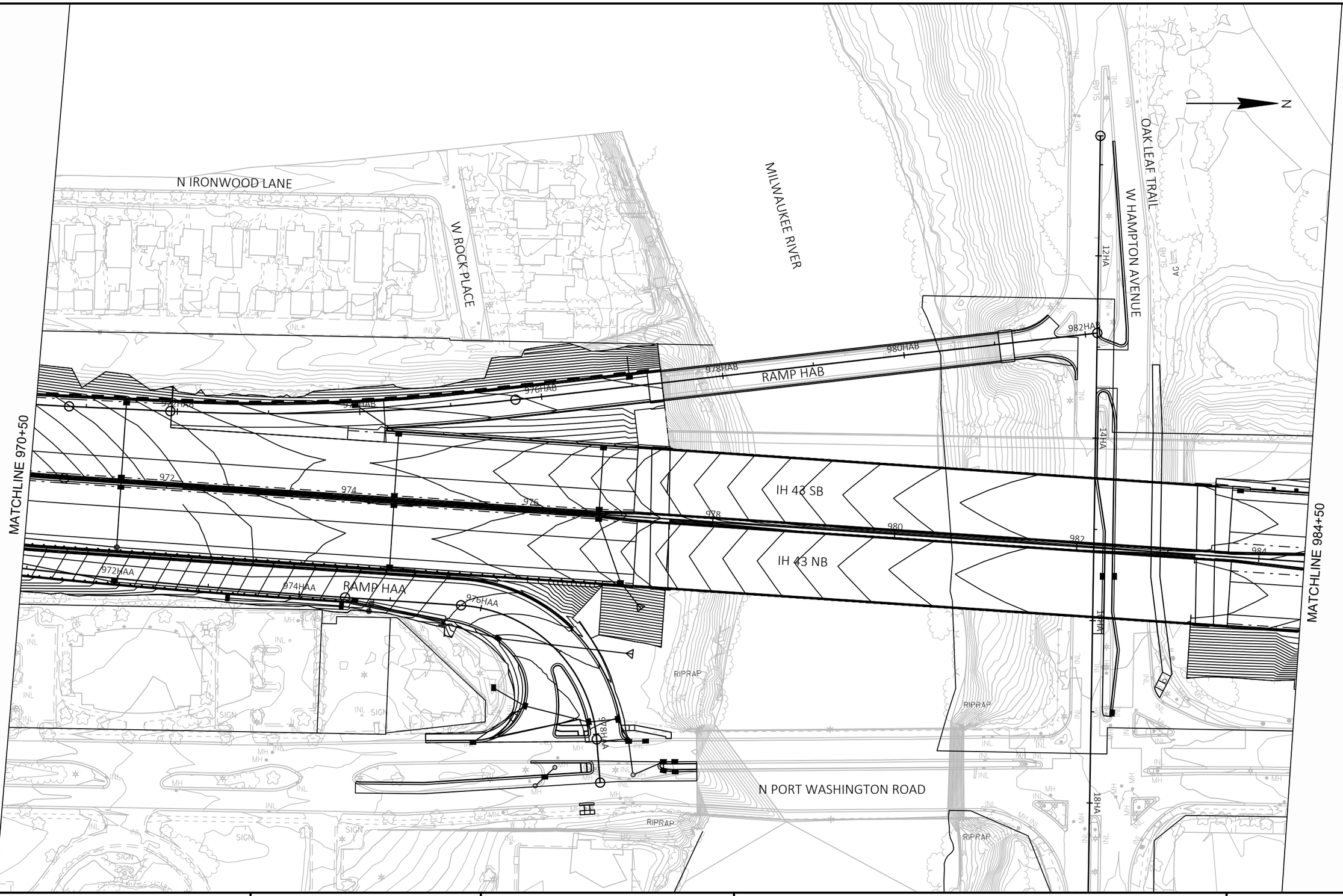
PRE_82

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LAYOUT NAME - 04

PLOT DATE : 2/27/2020 9:22 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_83

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 05

PLOT DATE : 2/27/2020 9:22 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

GOLF GREEN

GOLF COURSE

GOLF COURSE

IH 43 SB

IH 43 NB

MATCHLINE 984+50

MATCHLINE 997+50

988

990

992

994

996

N PORT WASHINGTON ROAD

W CHATEAU PLACE

SLAB

MH

INL

FLAG

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_84

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 06

PLOT DATE : 2/27/2020 9:23 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE 997+50

MATCHLINE 1010+50

OAK LEAF TRAIL

IH 43 SB

IH 43 NB

N PORT WASHINGTON ROAD

W MARNE AVENUE

W HENRY CLAY STREET

RIPRAP

RIPRAP

998

1000

1002

1004

1006

1008

1010

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_85

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 07

PLOT DATE : 2/27/2020 9:23 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 1010+50

1012 1014 1016

IH 43 SB

IH 43 NB

N IRONWOOD ROAD

ATHLETIC FIELD

SB ENTRANCE FROM W SILVER SPRING DRIVE

NB EXIT TO W SILVER SPRING DRIVE

NB EXIT TO N PORT WASHINGTON ROAD

W LEXINGTON BOULEVARD

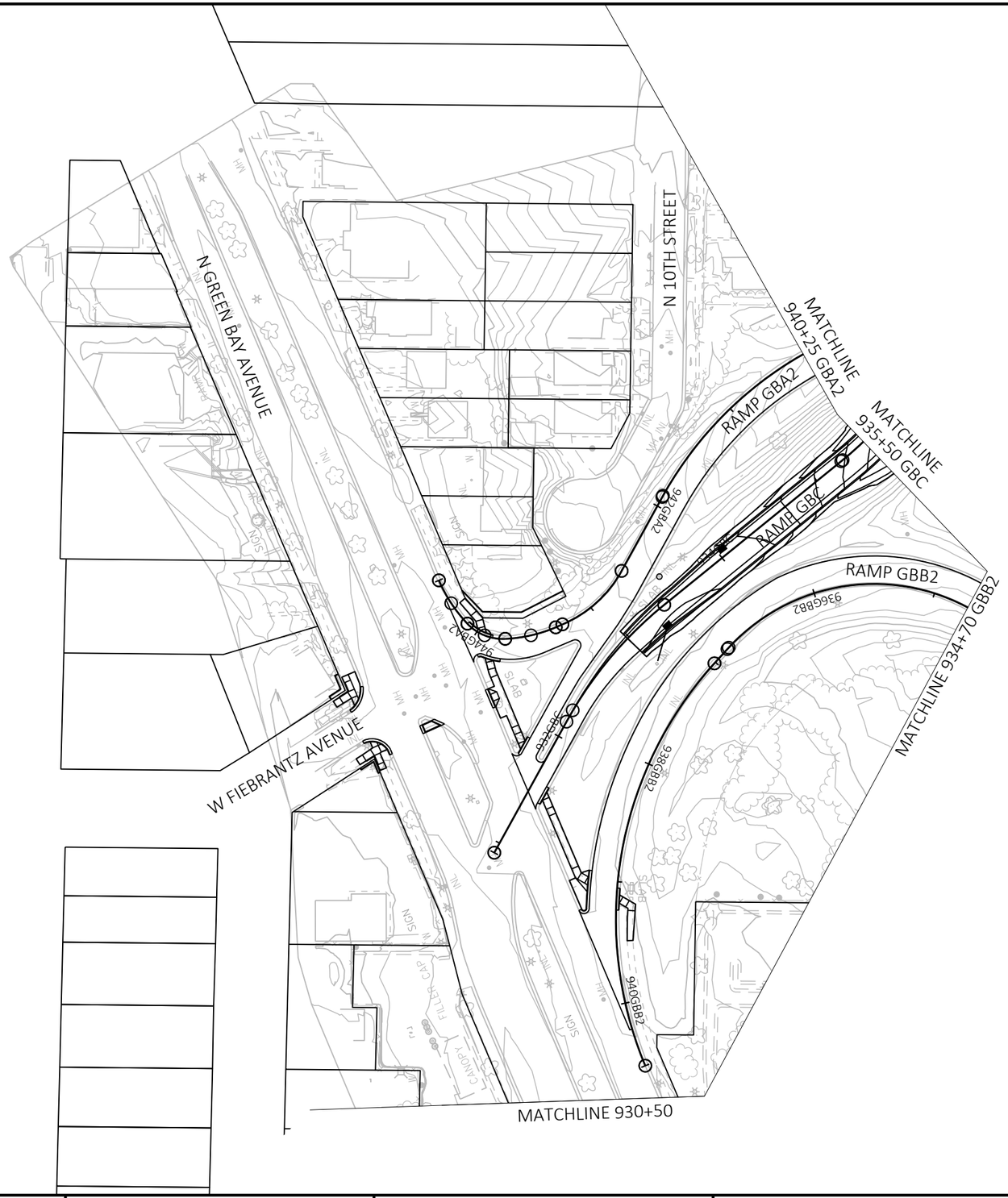
N PORT WASHINGTON ROAD

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_86

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 08

PLOT DATE : 2/27/2020 9:23 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT



N

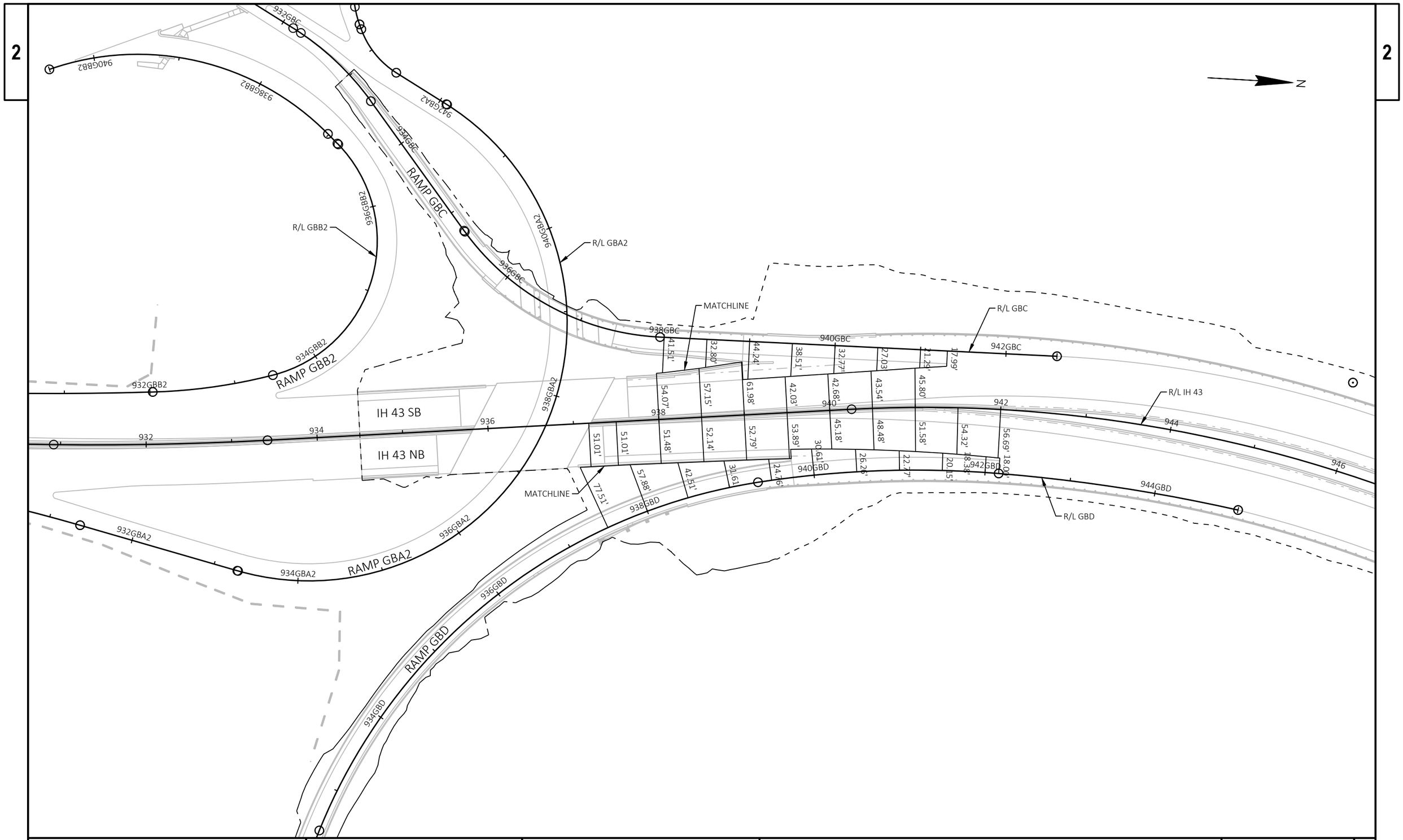
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET E

PRE_87

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021601-CM.DWG
LAYOUT NAME - 09

PLOT DATE : 2/27/2020 9:24 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTION MATCHLINES	SHEET E

PRE_88

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021701-XM.DWG
LAYOUT NAME - 01
PLOT DATE : 1/30/2020 1:15 PM
PLOT BY : FERGUSON, JULIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

W GLENDALE AVENUE

MATCHLINE 967+96

IH 43 SB

IH 43 NB

R/L IH 43

R/L HAA

MATCHLINE

RAMP HAA

956 958 960 962 964 966

960HAA 962HAA 964HAA

63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 63.25' 79.41' 79.42'

18.07' 21.51' 24.68' 27.51' 29.98' 32.10' 33.87' 35.29' 36.36' 37.22' 37.54' 21.33'

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTION MATCHLINES	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021701-XM.DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2020 1:15 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_89

WISDOT/CADDS SHEET 42

2

N

MILWAUKEE RIVER

MATCHLINE 967+50

W GLENDALE AVENUE

968HAA 970HAA 972HAA 974HAA 976HAA 978HAA

968 970 972 974 976 978 980

970HAB 972HAB 974HAB 976HAB 978HAB 980HAB

RAMP HAB

R/L HAB

MATCHLINE

IH 43 SB

IH 43 NB

R/L IH 43

RAMP HAA

MATCHLINE

R/L HAA

N PORT WASHINGTON ROAD

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTION MATCHLINES	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\021701-XM.DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2020 1:16 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_90

WISDOT/CADDS SHEET 42

2

GENERAL DRAINAGE NOTES

LOCATION OF STRUCTURES IN CURB OR AT BARRIER AND GUTTER REFER TO CURB AND GUTTER/BARRIER FLOW LINE. LOCATION OF STRUCTURES NOT IN CURB AND GUTTER SECTION OR AT BARRIER REFER TO CENTER OF STRUCTURE OR AS NOTED ON PLAN. SEE STRUCTURE LOCATION DETAIL.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE BOLTED COVERS FOR MANHOLE COVERS TYPE J SPECIAL. COST OF PROVIDING BOLTED COVERS IS CONSIDERED INCIDENTAL TO COVER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.

CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

STORM SEWER PLAN & PROFILE NOTE:
PLAN VIEW HIGHLIGHTS CORRESPOND TO PROFILES SHOWN IN PROFILE BELOW PLAN VIEW (SAME SHEET). STORM SEWER STRUCTURES AND PIPES LABELED IN PLAN VIEW WITHOUT HIGHLIGHT ARE SHOWN ON THE NEXT PROFILE ONLY SHEET(S).

STORM SEWER LEGEND

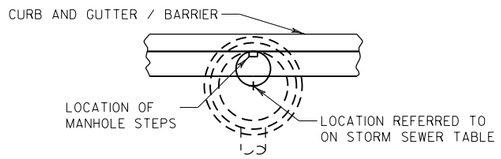
——→——	PROPOSED STORM SEWER PIPE PLAN VIEW
——→——/——SS——	EXISTING STORM SEWER PLAN VIEW
————	EXISTING STORM SEWER PROFILE VIEW
(***)	PROPOSED DRAINAGE STRUCTURE
(E***)	EXISTING DRAINAGE STRUCTURE
(T***)	TEMPORARY DRAINAGE STRUCTURE
●	PROPOSED MANHOLE
■	PROPOSED INLET
△	PROPOSED ENDWALL
P***	PROPOSED STORM SEWER PIPE
PE***	EXISTING STORM SEWER PIPE
PT***	TEMPORARY STORM SEWER PIPE

2

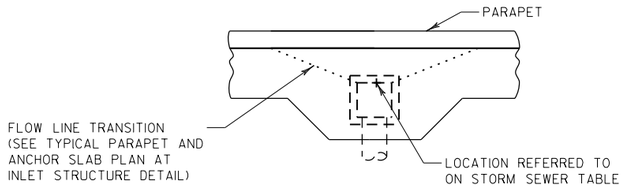
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER CONSTRUCTION DETAILS	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022501_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:200
WISDOT/CADDS SHEET 42

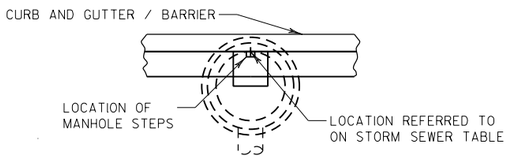
NOTE
1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.



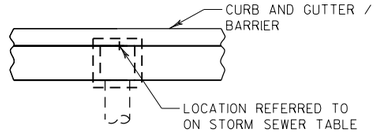
MANHOLE IN CURB AND GUTTER / AT BARRIER



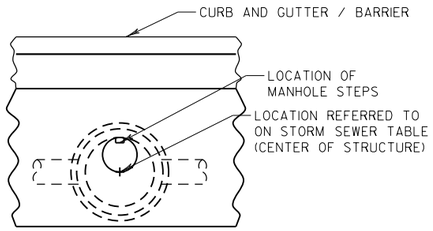
INLET IN RETAINING WALL ANCHOR SLAB



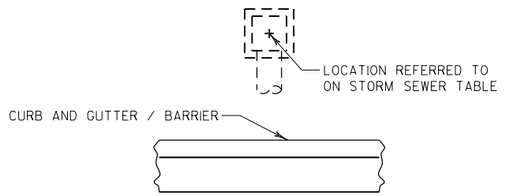
MANHOLE WITH INLET COVER IN CURB AND GUTTER / AT BARRIER



INLET IN CURB AND GUTTER / AT BARRIER



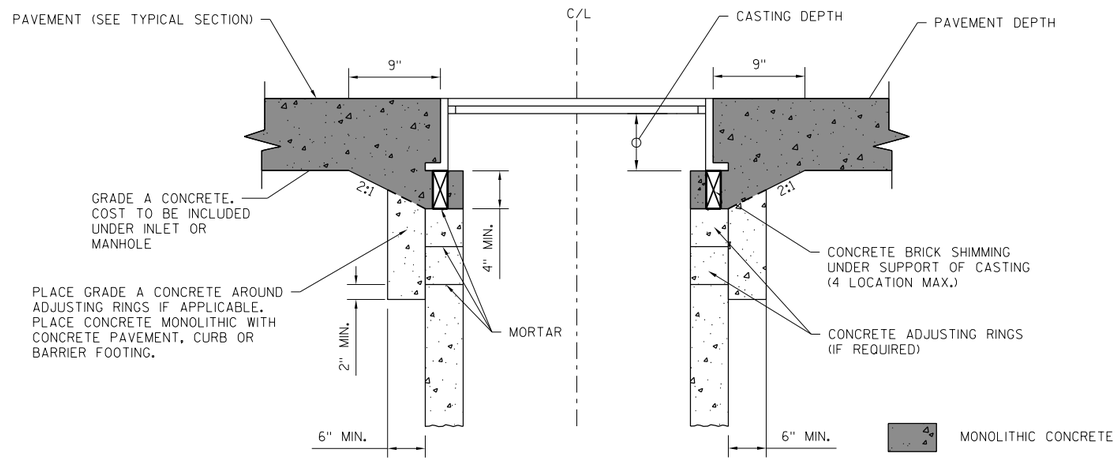
MANHOLE NOT IN CURB AND GUTTER / NOT AT BARRIER



INLET NOT IN CURB AND GUTTER / NOT AT BARRIER

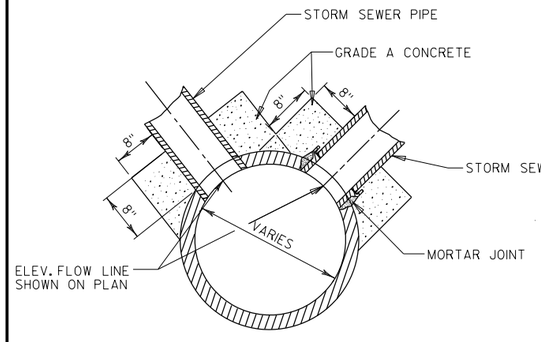
STRUCTURE LOCATION DETAIL

NOTES
1) PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.

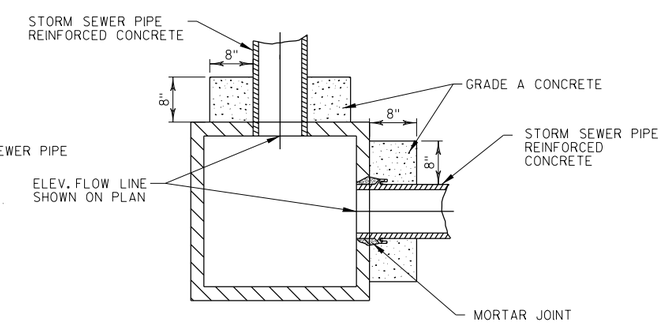


MONOLITHIC CONCRETE SHIMMING DETAIL

NOTE
CONCRETE COLLAR TO BE PAID AS A BID ITEM WHEN CONNECTING AN EXISTING PIPE TO A NEW STRUCTURE.



AT MANHOLE
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

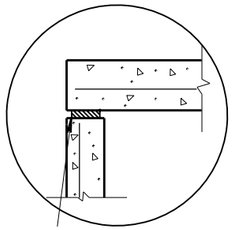


AT STORM SEWER INLET
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

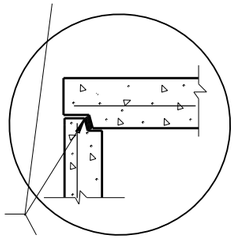
CONCRETE COLLAR DETAIL

FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER CONSTRUCTION DETAILS	SHEET E

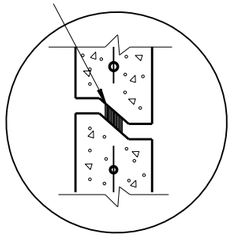


TOP WITH PLAIN END JOINT



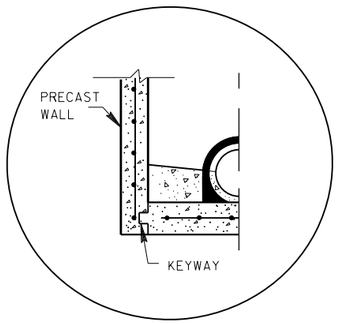
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

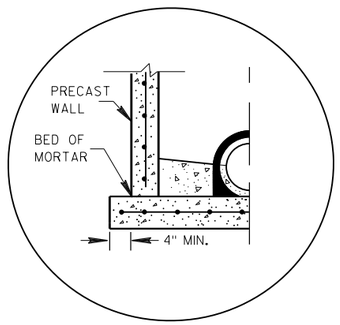


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



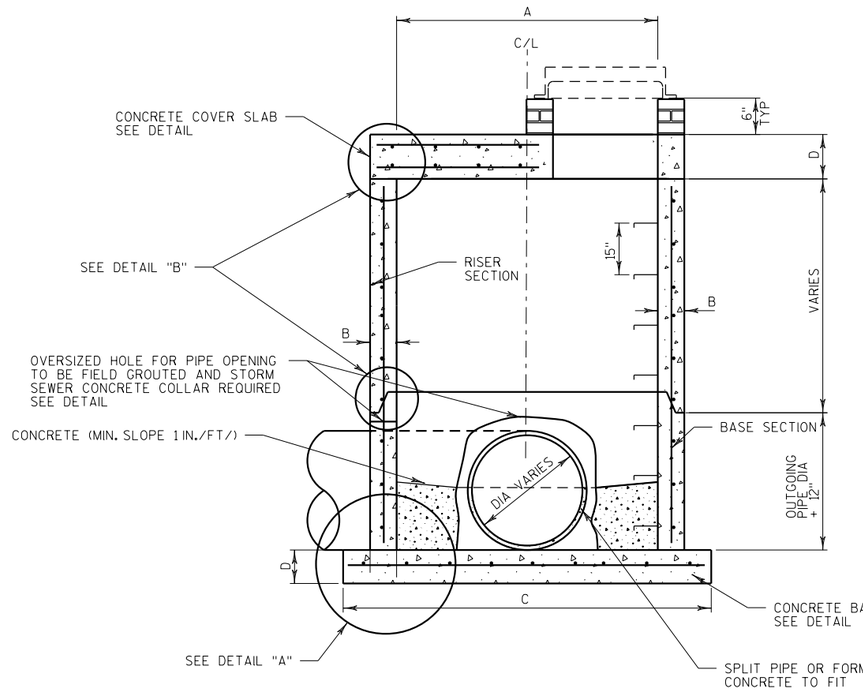
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

	A	B	C	D
MANHOLE 9-FT SPECIAL	108"	10"	132"	12"
MANHOLE 10-FT SPECIAL	120"	11"	146"	12"

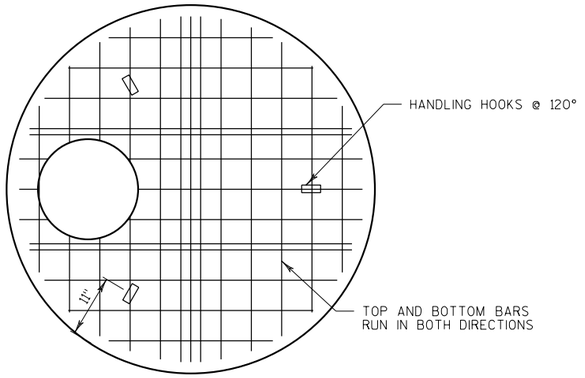


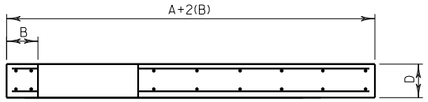
MANHOLE 9-FT SPECIAL

MANHOLE 10-FT SPECIAL

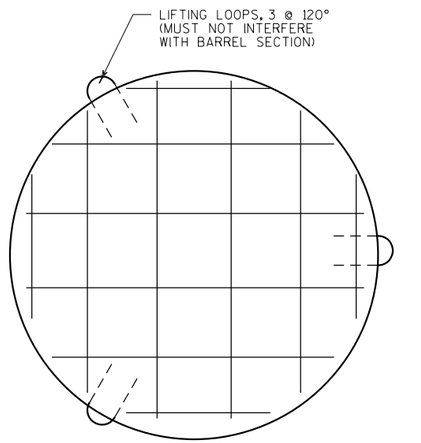
NOTES

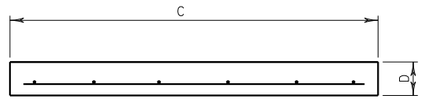
1) REINFORCING COMPLIES WITH ASTM C-478.
2) STEPS PLACED AT 15". STEPS COMPLY WITH ASTM C-478.
3) RISER & SLABS DESIGN FOR HS20 LOADING.



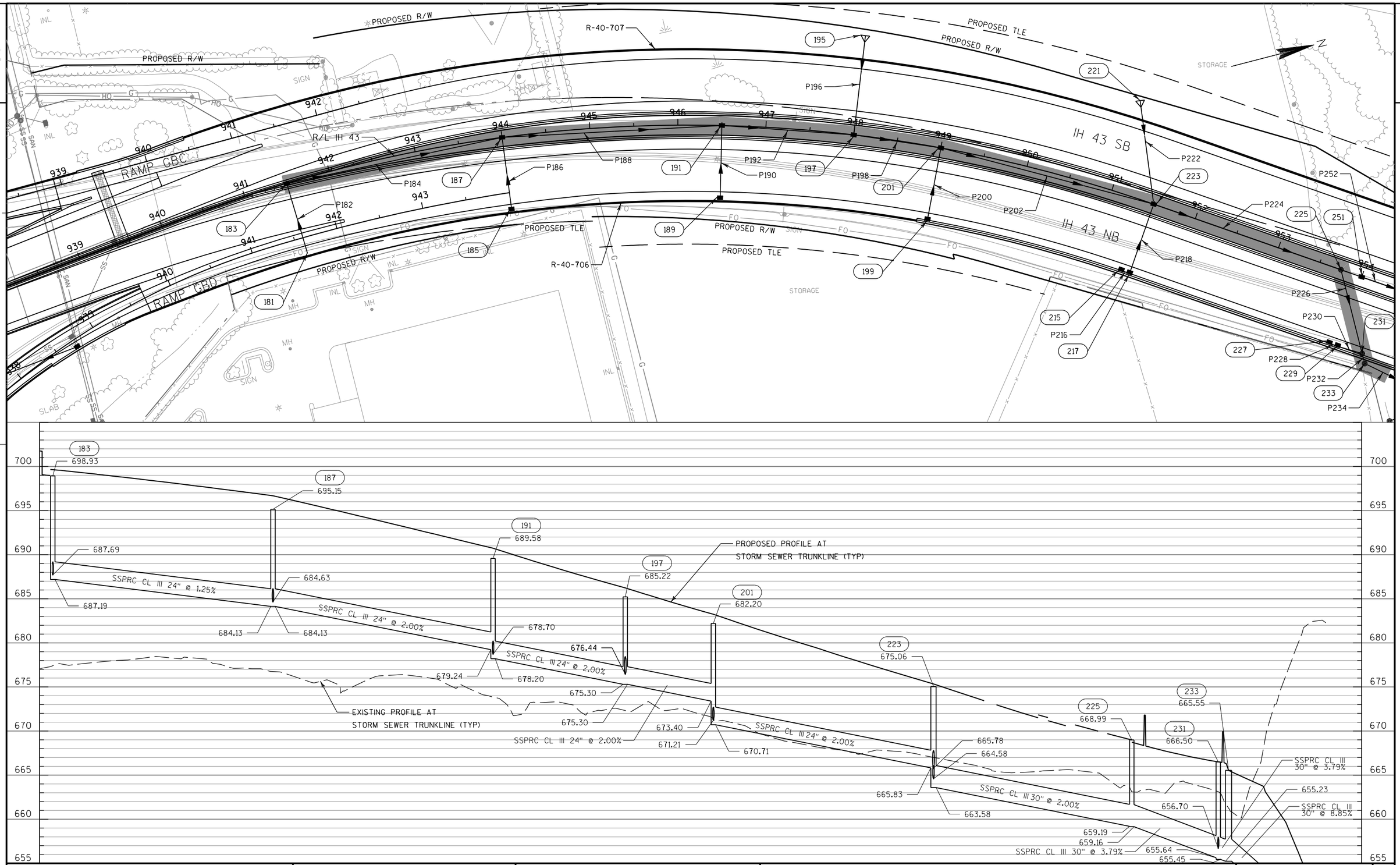


CONCRETE COVER SLAB





CONCRETE BASE SLAB

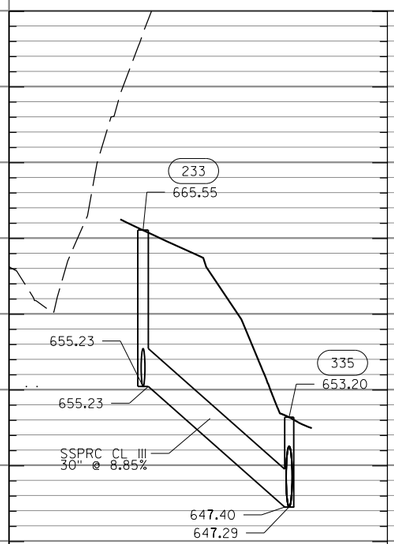


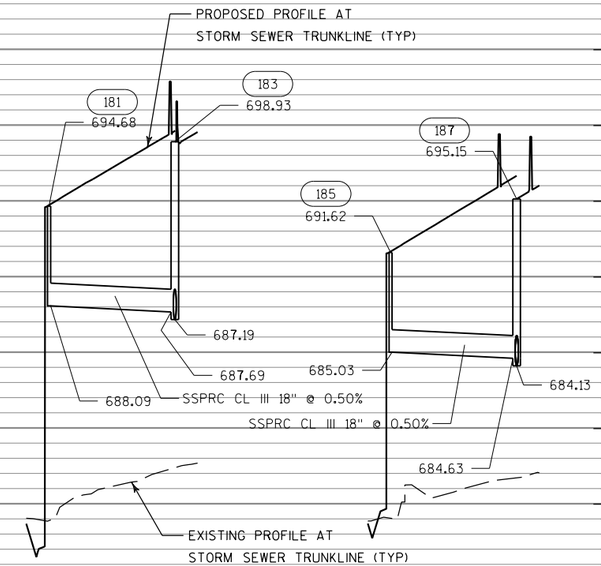
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

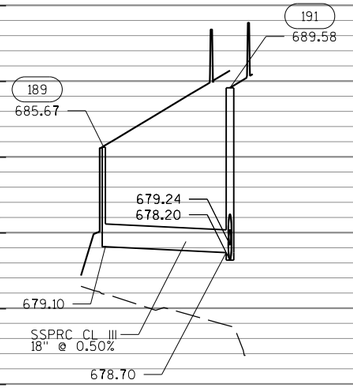
PRE_94

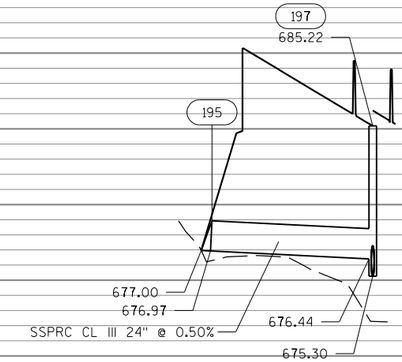
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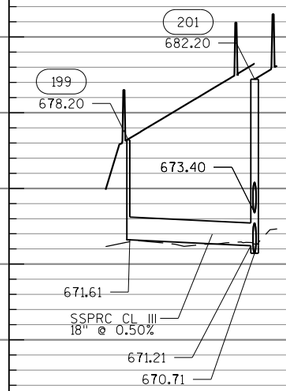
WISDOT/CADDS SHEET 41

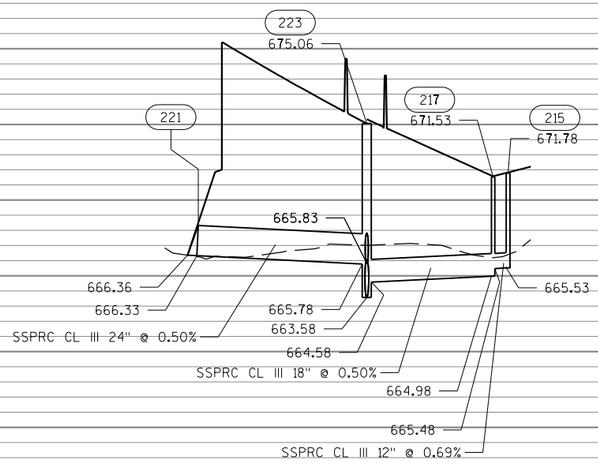


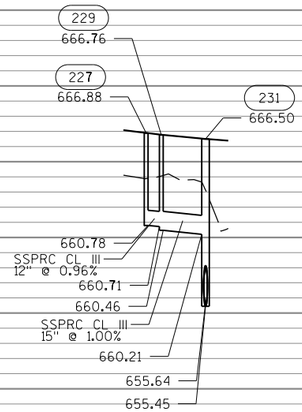








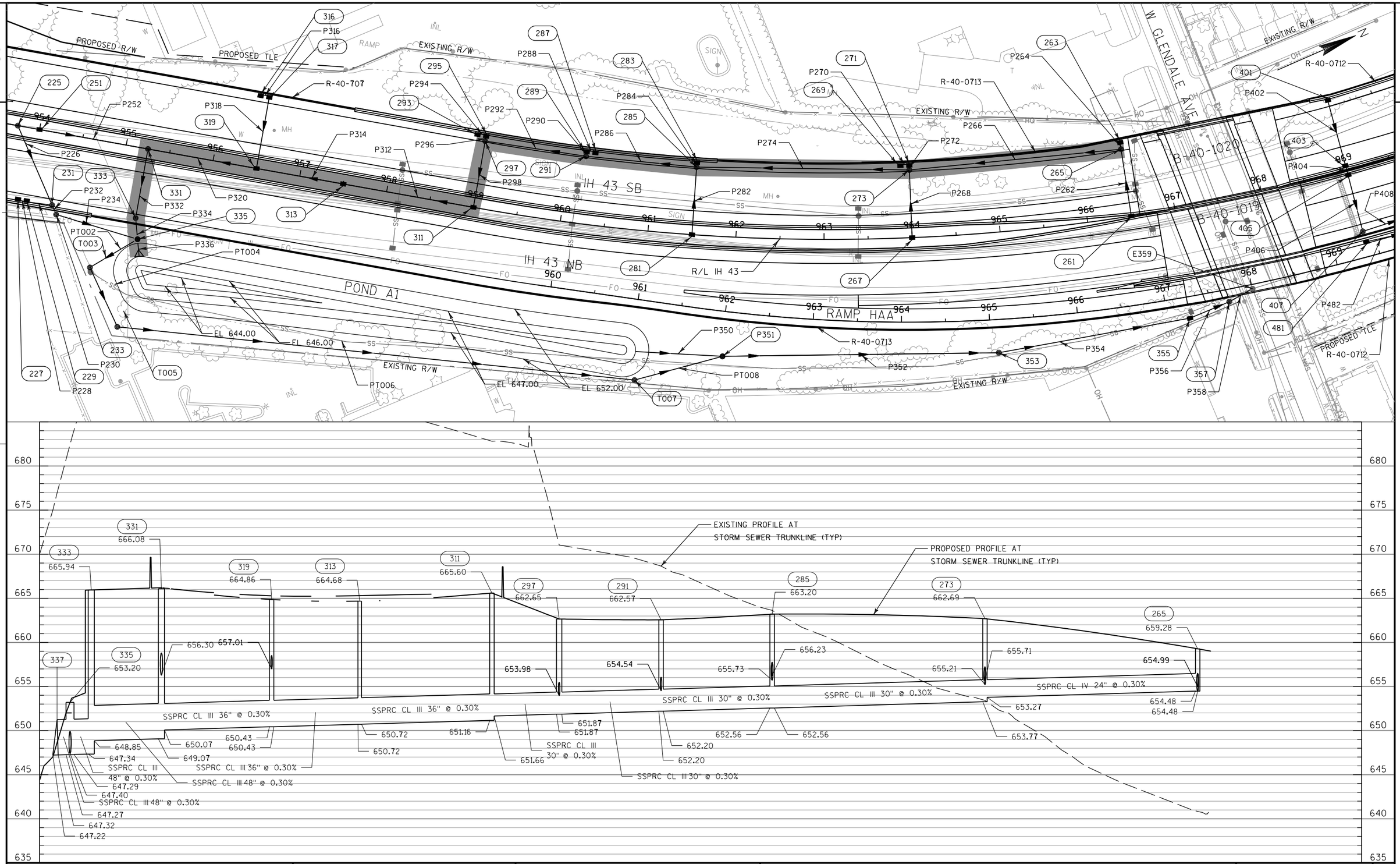




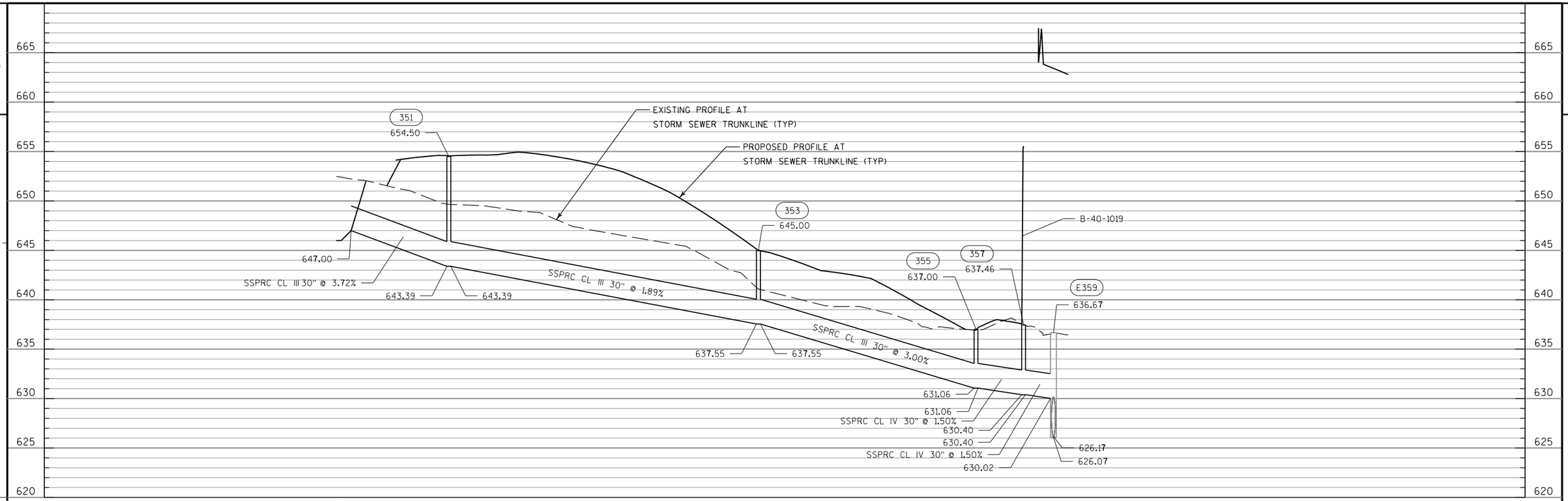
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

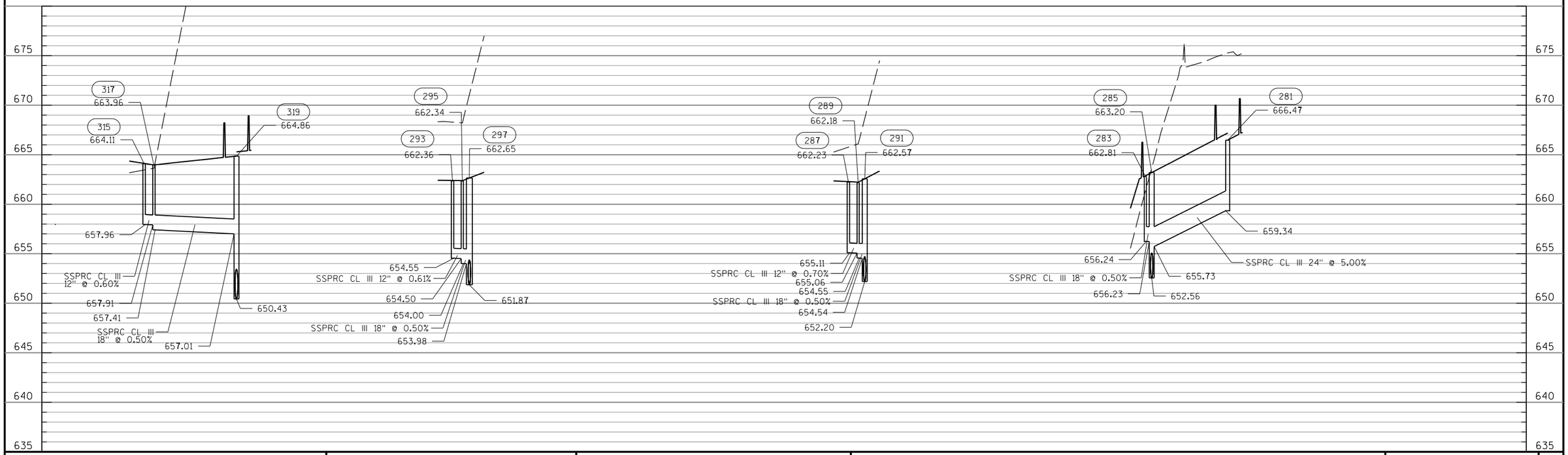
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PRE_95



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E





PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

PRE_98

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2

EXISTING R/W

RAMP HAB

R/L IH 43 IH 43 SB

IH 43 NB

RAMP HAA

EXISTING R/W

PROPOSED TIE

W GLENDALE AVE

W HAMPTON AVE

N PORT WASHINGTON RD

MILWAUKEE RIVER

DITCH TO BE GRADED

INL SIGN

RIPRAP

401 409 431 P432 433 551 E553 P552 451 P452 453 P454 455 P456 457 P458 459 497 401 OH P402 403 P404 405 P406 407 481 P482 P408 P410 411 P412 413 483 P414 415 487 P484 435 P434 437 P436 439 P438 P440 485 493 P486 P484 P496 P494 495 511 P488 489 P490 491 517 P516 519 P518 P520 523 P522 521 531 P532 P526 525 P530 515 P512 513 P514 527 P528 529 E563 P562 561 E535 E559 P560

968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983

660 655 650 645 640 635 630 625 620

407
659.80

PROPOSED PROFILE AT
STORM SEWER TRUNKLINE (TYP)

EXISTING PROFILE AT
STORM SEWER TRUNKLINE (TYP)

415
650.99

457
648.09

439
644.93

643.98

637.61

638.78

SSPRC CL III 24" @ 1.00%

639.28

SSPRC CL III 24" @ 1.00%

636.76 636.76

633.80
633.89
633.80

SSPRC CL III 24" @ 0.99%

459

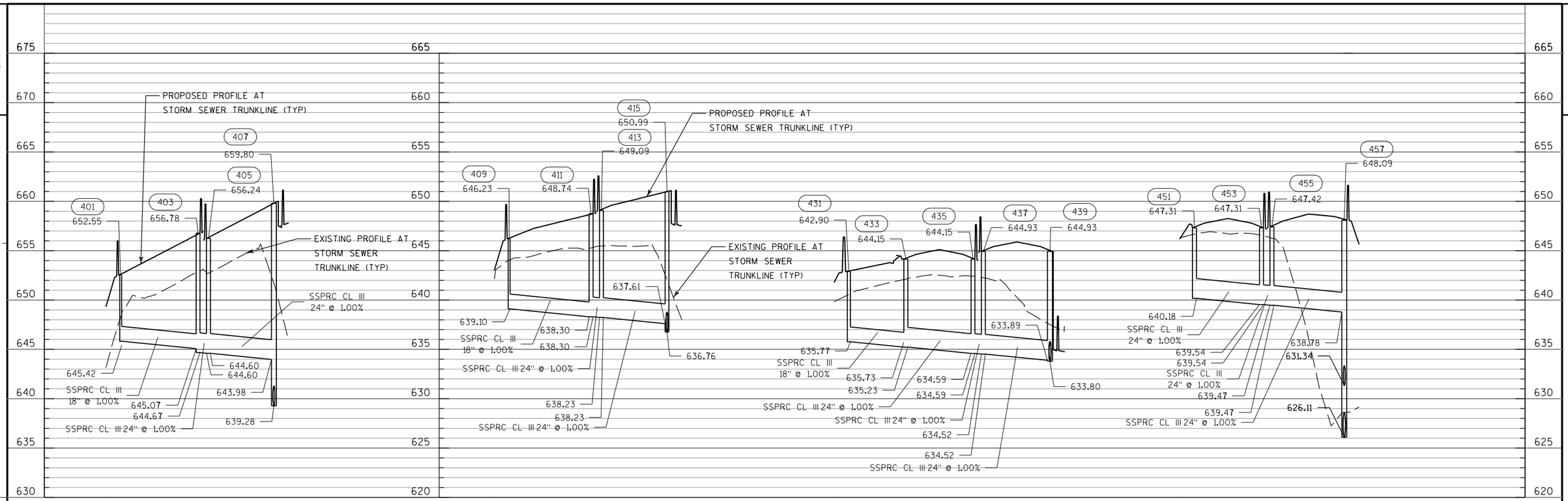
631.33
630.83

SSPRC CL III 30" @ 4.37%

629.32
629.21

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022513_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

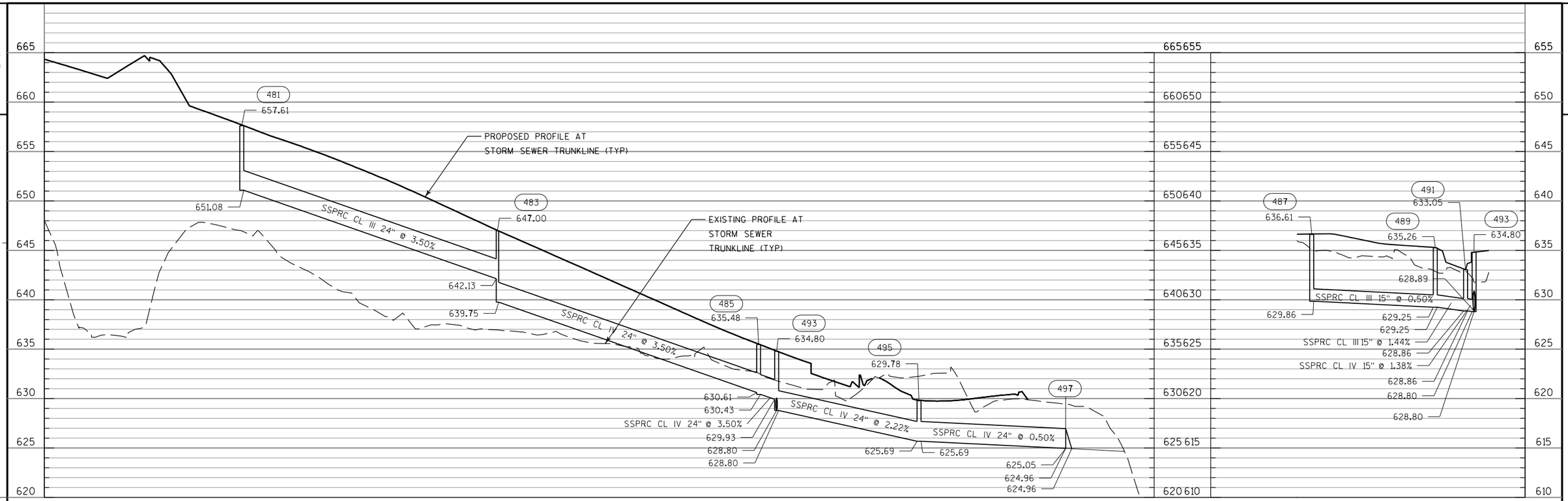


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022513A_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:100

PRE_100

WISDOT/CADDS SHEET 42

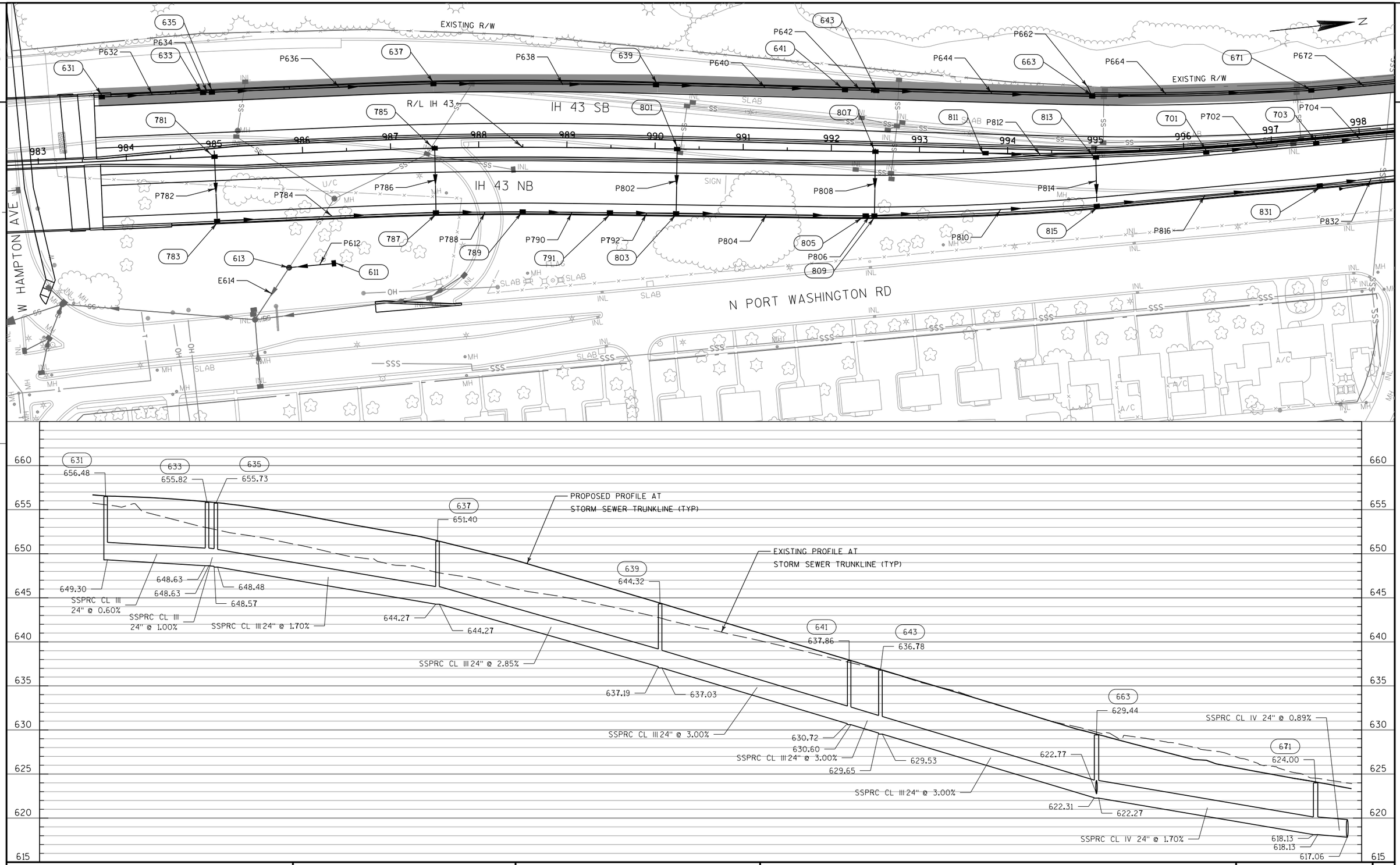


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

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PRE_101

WISDOT/CADDS SHEET 42

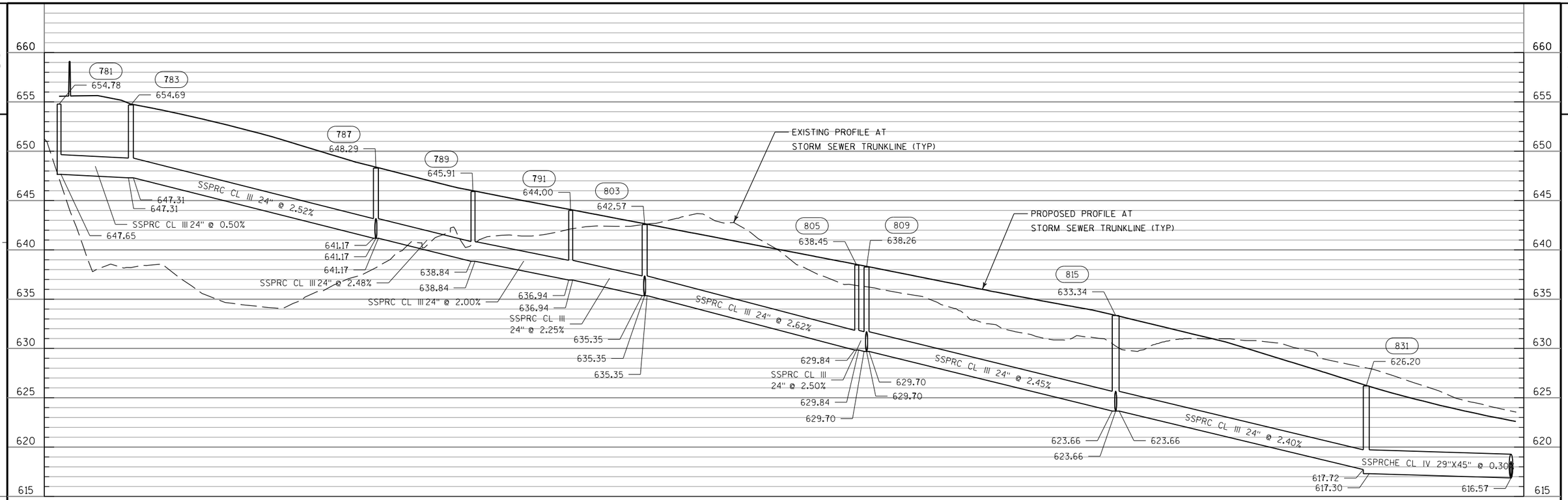


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022514_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PRE_102

WISDOT/CADDS SHEET 41

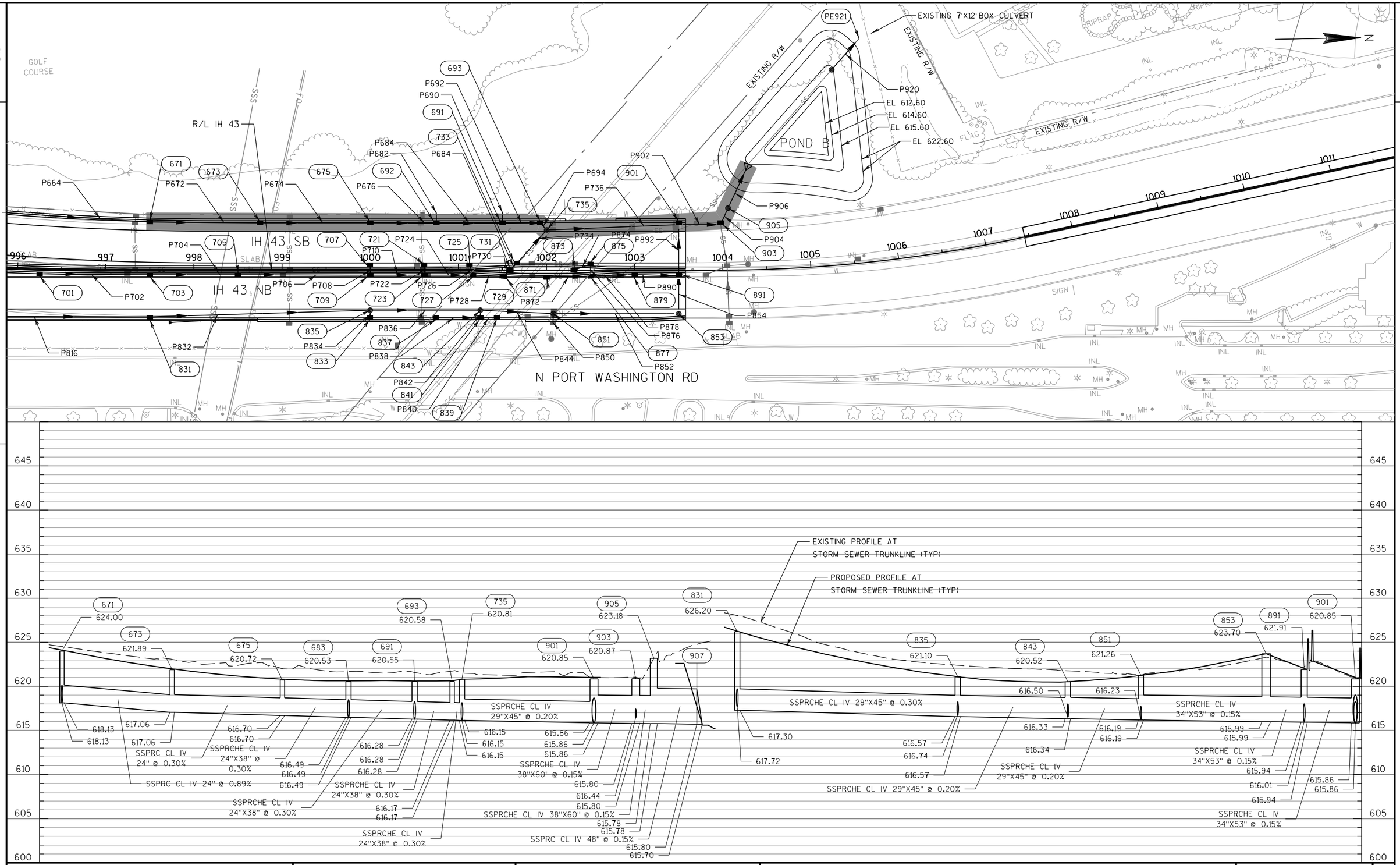


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

PRE_103

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022514A_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

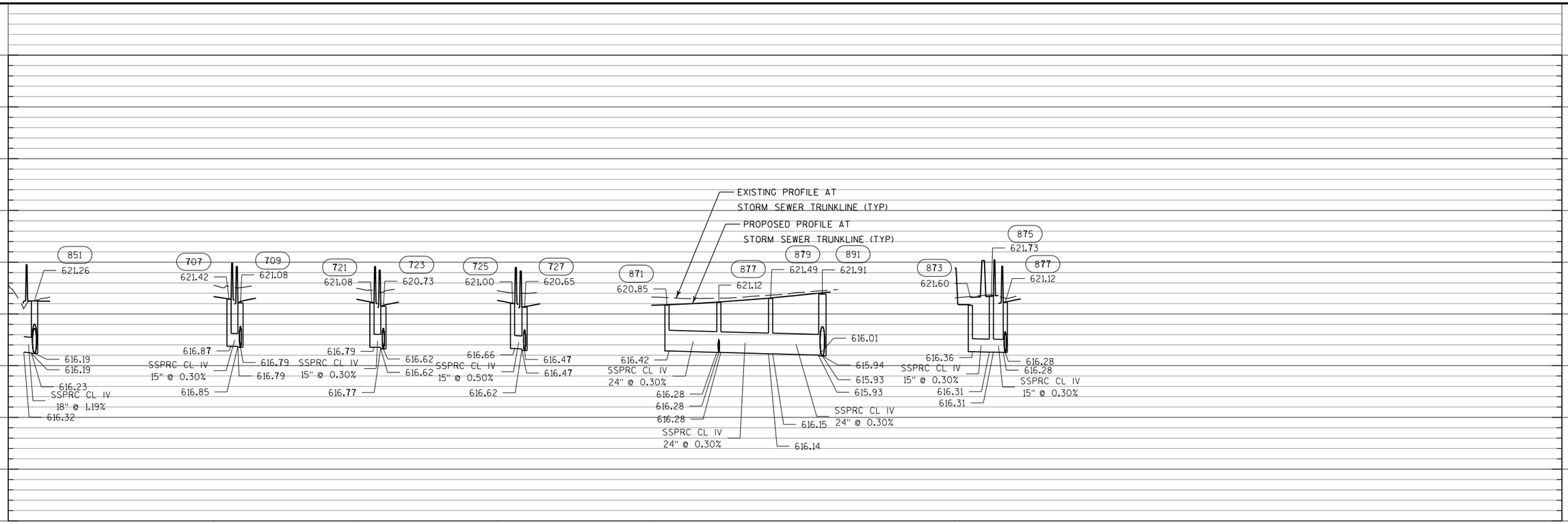


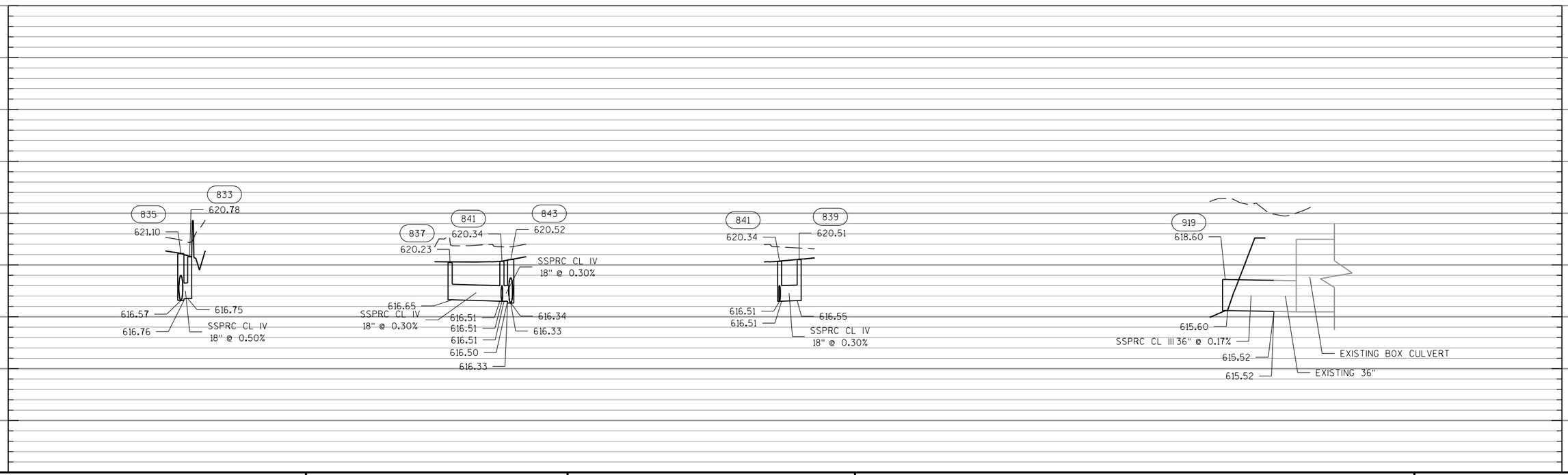
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022515_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PRE_104

WISDOT/CADDS SHEET 41



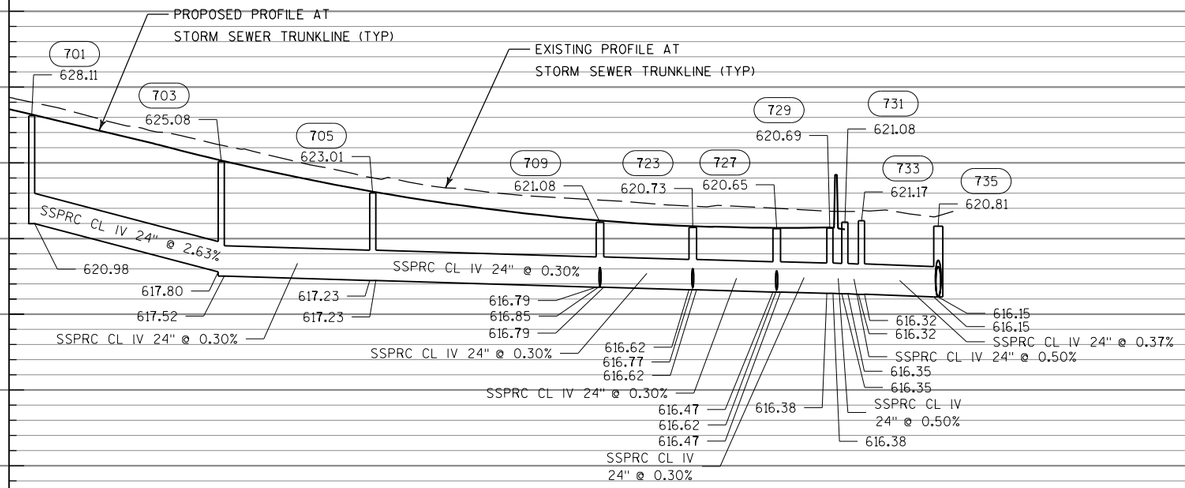


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

PRE_105

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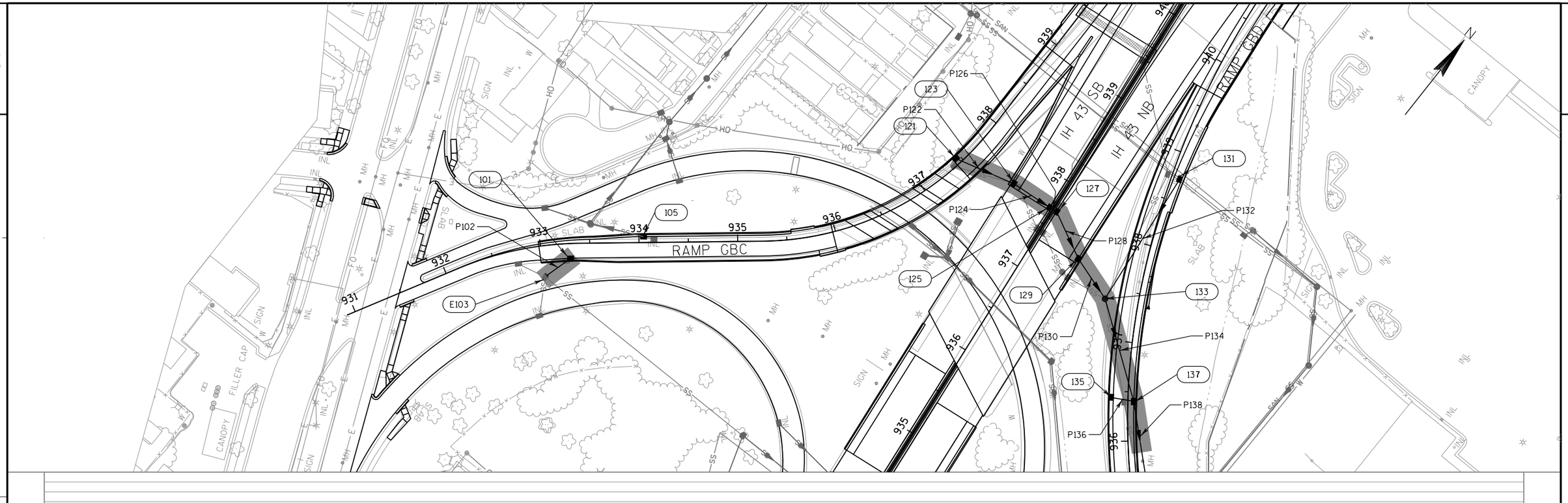
WISDOT/CADDS SHEET 42

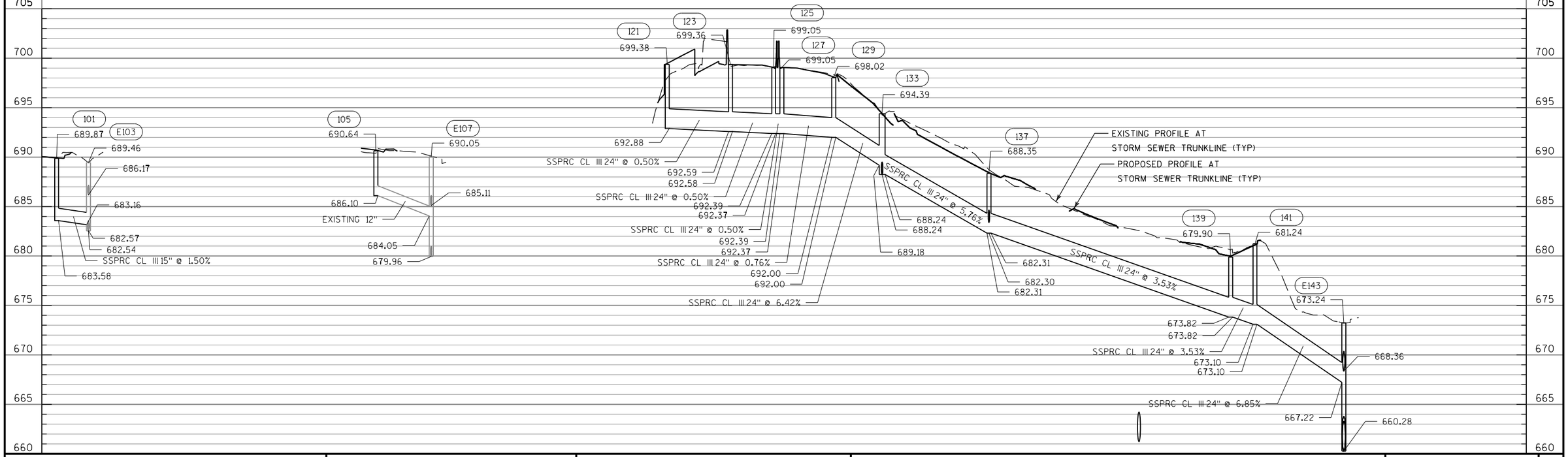


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET E

PRE_106

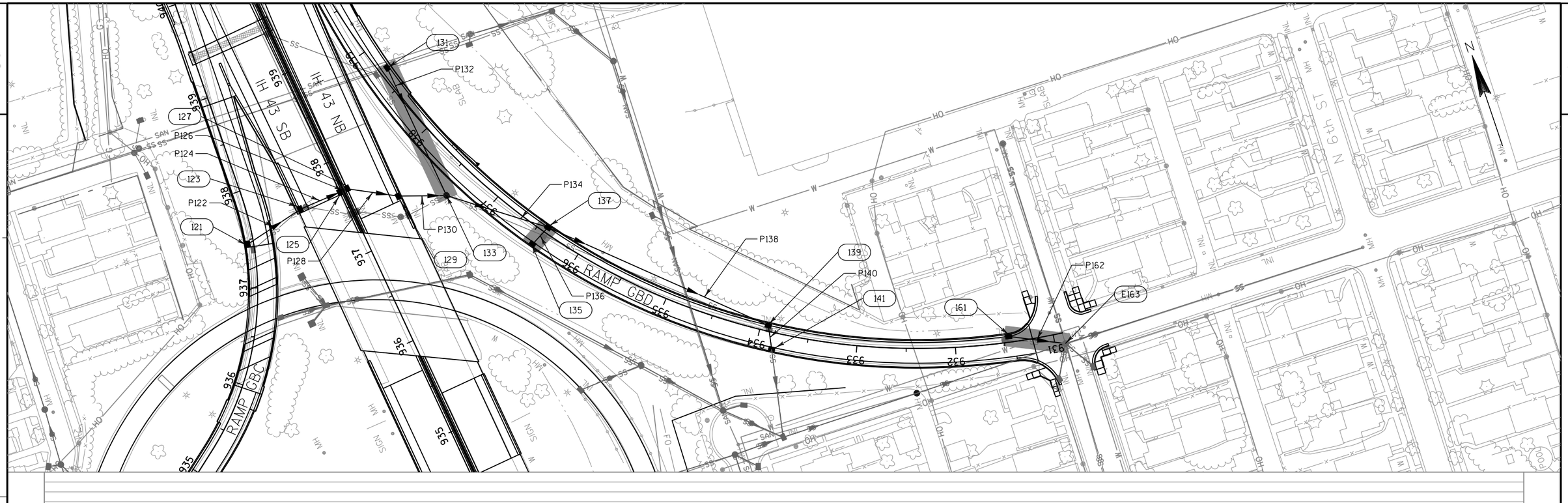
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WISDOT/CADDS SHEET 42





PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022521_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 41



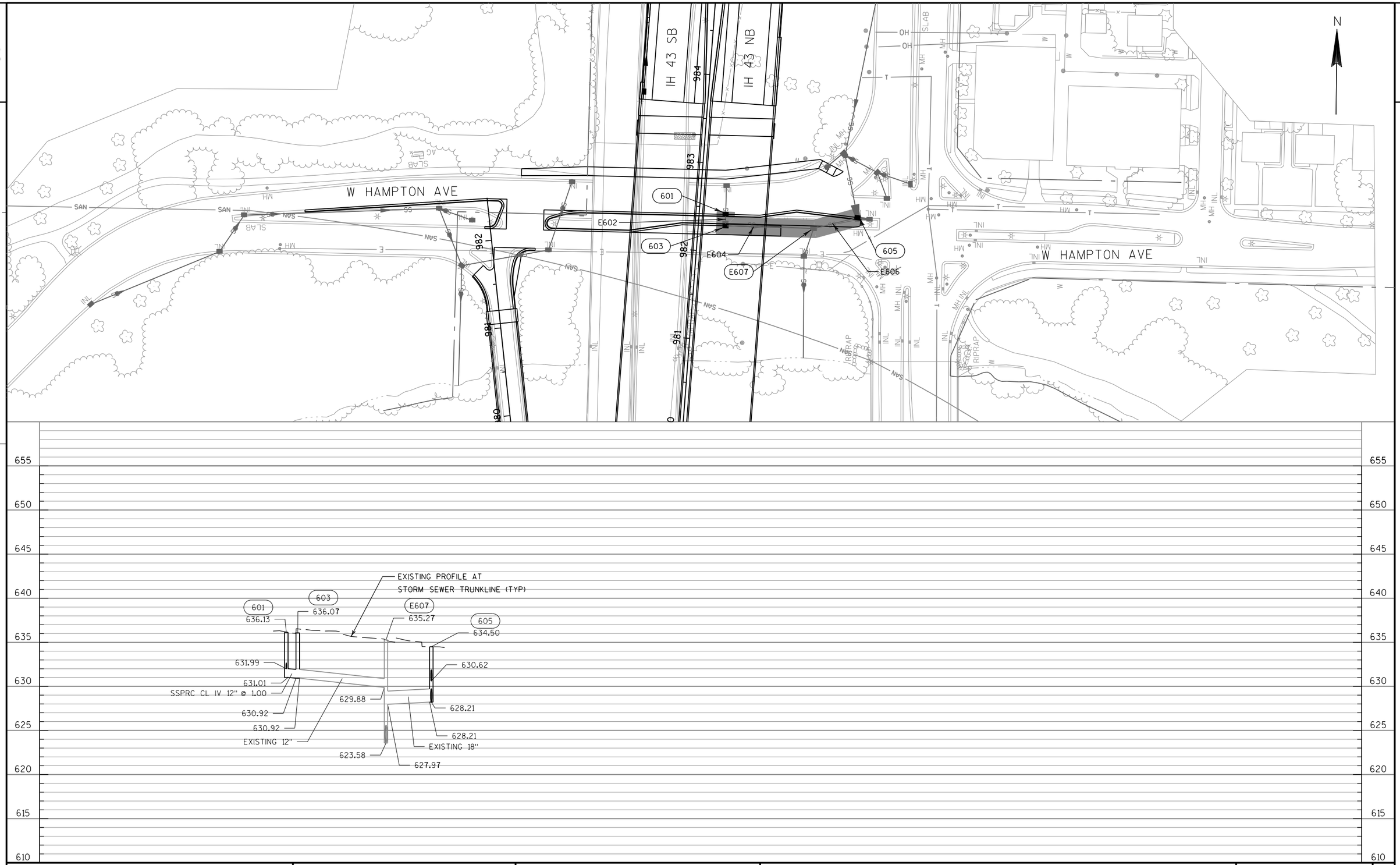


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

PRE_108

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022522_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41



655 650 645 640 635 630 625 620 615 610

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER PLAN AND PROFILE	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022523_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PRE_109

WISDOT/CADDS SHEET 41

2

2

PROPOSED TLE

PROPOSED R/W

PROPOSED TLE

EXISTING R/W

EXISTING R/W

954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969

IH 43 SB

IH 43 NB

R/L IH 43

PROPOSED R/W

POND A

EL 644.00

EL 646.00

EL 647.00

EL 652.00

EXISTING R/W

EXISTING R/W

W GLENDALE AVE

RAMP

RAMP

FLAG

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

WALLS

SLAB

SLAB

MH

INL

W

A/C

T

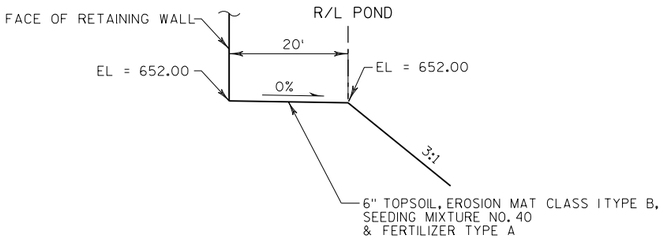
HW

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER POND A OVERVIEW	SHEET E

PRE_110

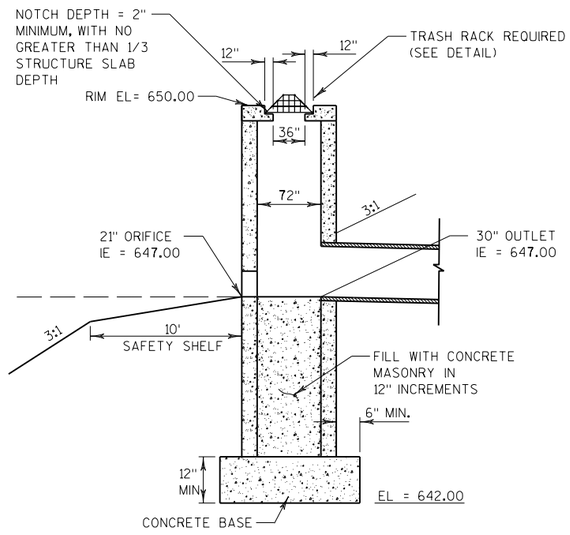
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WISDOT/CADDS SHEET 41



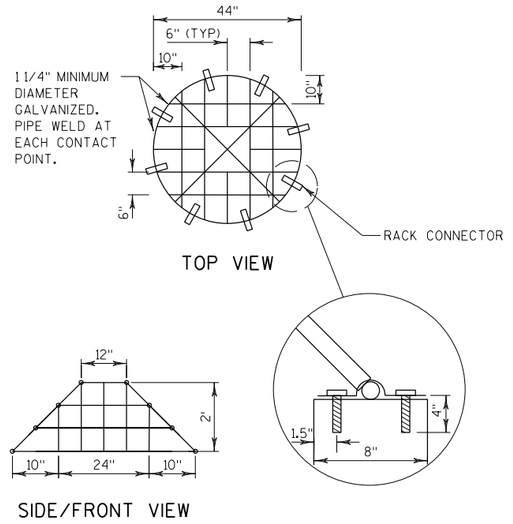
TYPICAL SECTION POND ACCESS ROAD

STA 0+00.00 TO STA 4+40.00
STA 4+50.00 TO STA 7+36.46



POND A OUTLET STORM SEWER STRUCTURE DETAIL

STRUCTURE
MANHOLE 6-FT
NTS



TRASH RACK

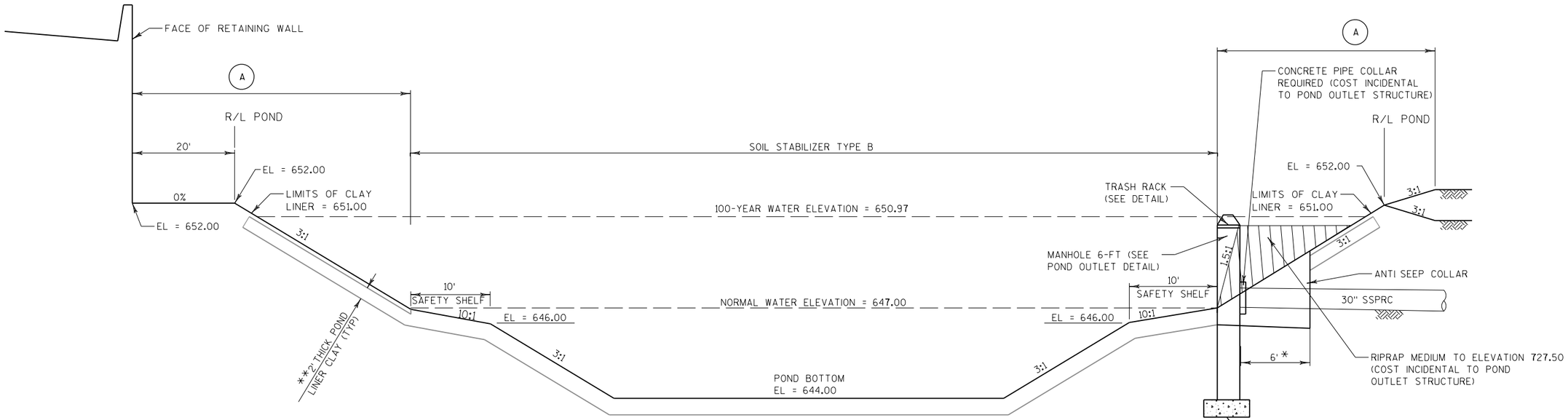
NTS

NOTES

1. REFER TO STANDARD DETAIL DRAWING FOR MANHOLE 6-FT FOR ADDITIONAL INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND A OUTLET STORM SEWER STRUCTURE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION AND APPROVED BY THE ENGINEER.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER.
5. ANTI-SEEP COLLAR OF CLAY OR BENTONITE REQUIRED AROUND POND OUTLET DISCHARGE PIPE TO PREVENT BACKFLOW OF WATER THROUGH THE SEWER TRENCH. ANTI-SEEP COLLARS MUST EXTEND FROM 1-FOOT ABOVE THE TOP OF PIPE TO THE BOTTOM OF EXCAVATED TRENCH AND BE CONNECTED WITH THE POND A LINER PER DETAIL. ANTI-SEEP COLLAR IS INCIDENTAL TO PIPE AND INSTALLATION.
6. RIPRAP PLACED ON TOP OF CLAY LINER NOT TO BE DUG IN.

* ANTI-SEEP COLLAR TO BE MINIMUM 1-FOOT FROM OUTLET PIPE JOINT. ANTI-SEEP COLLAR MAY COVER JOINT, SO LONG AS END OF COLLAR IS A MINIMUM 1-FOOT PAST JOINT. ANTI-SEEP COLLAR TO BE CONNECTED TO POND A LINER.

** COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.



POND A

NTS

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER POND A DETAILS	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022553_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : $FILE$ PLOT SCALE : 1:2

2

N

EXISTING 7' X 12' BOX CULVERT

EL 612.60

EL 614.60

EL 615.60

EL 622.60

EXISTING R/W

EXISTING R/W

EXISTING R/W

POND B

100 YEAR
FLOOD PLAIN (TYP)

IH 43 SB

R/L IH 43

IH 43 NB

N PORT WASHINGTON RD

998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013

RIPRAP

RIPRAP

FLAG

FLAG

SLAB

SIGN

INL

MH

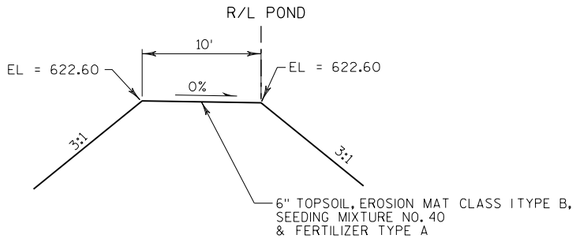
W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER POND B OVERVIEW	SHEET E

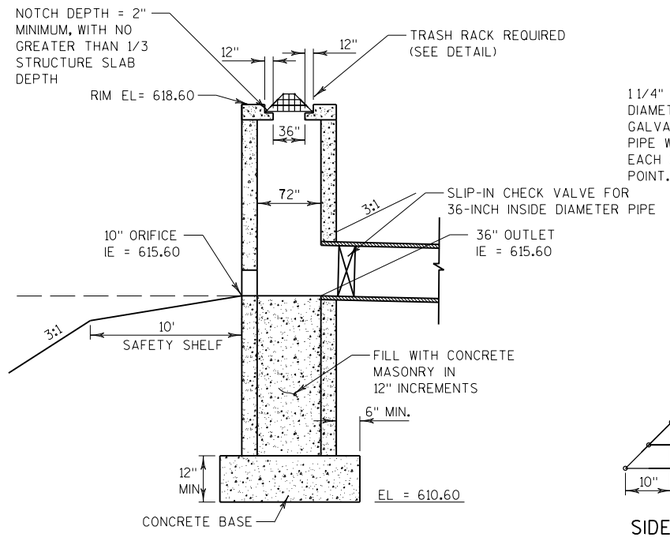
FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\022554_SS.dgn PLOT DATE : 2/17/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

PRE_112

WISDOT/CADDS SHEET 41

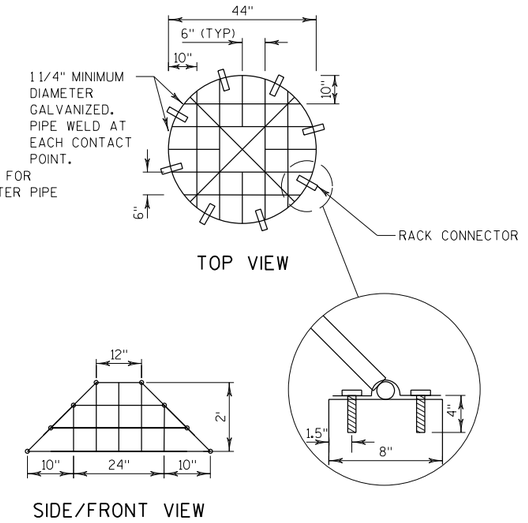


TYPICAL SECTION POND ACCESS ROAD



POND B OUTLET
STORM SEWER STRUCTURE DETAIL

STRUCTURE
MANHOLE 6-FT
NTS



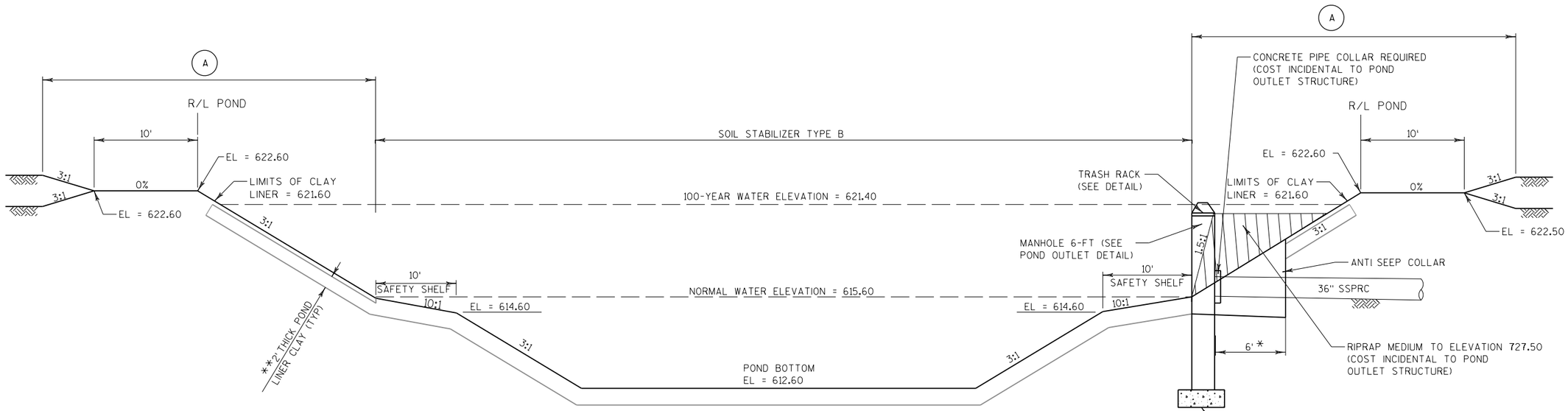
TRASH RACK
NTS

NOTES

1. REFER TO STANDARD DETAIL DRAWING FOR MANHOLE 6-FT FOR ADDITIONAL INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND B OUTLET STORM SEWER STRUCTURE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION AND APPROVED BY THE ENGINEER.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER.
5. ANTI-SEEP COLLAR OF CLAY OR BENTONITE REQUIRED AROUND POND OUTLET DISCHARGE PIPE TO PREVENT BACKFLOW OF WATER THROUGH THE SEWER TRENCH. ANTI-SEEP COLLARS MUST EXTEND FROM 1-FOOT ABOVE THE TOP OF PIPE TO THE BOTTOM OF EXCAVATED TRENCH AND BE CONNECTED WITH THE POND B LINER PER DETAIL. ANTI-SEEP COLLAR IS INCIDENTAL TO PIPE AND INSTALLATION.
6. RIPRAP PLACED ON TOP OF CLAY LINER NOT TO BE DUG IN.

* ANTI-SEEP COLLAR TO BE MINIMUM 1-FOOT FROM OUTLET PIPE JOINT. ANTI-SEEP COLLAR MAY COVER JOINT, SO LONG AS END OF COLLAR IS A MINIMUM 1-FOOT PAST JOINT. ANTI-SEEP COLLAR TO BE CONNECTED TO POND B LINER.

** COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.



POND B
NTS

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	STORM SEWER POND B DETAILS	SHEET E

2

2

N

N 10TH STREET

N GREEN BAY AVENUE

N DOCTOR M.L.K. JR DRIVE

N 9TH STREET

W MESSMER STREET

IH 43 SB

IH 43 NB

NB EXIT TO W CAPITOL DRIVE

N 8TH STREET

W MELVINA STREET

W CAPITOL DRIVE

MATCHLINE 930+50

922GBB2

924GBB2

926GBB2

928GBB2

930GBB2

928GBA2

930GBA2

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 01

PLOT DATE : 3/5/2020 1:38 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 930+50

MATCHLINE 934+70GBB2

MATCHLINE 935+50GBC

MATCHLINE 940+25GBA2

MATCHLINE 945+50

IH 43 SB

IH 43 NB

RAMP GBC

RAMP GBB2

RAMP GBA2

RAMP GBD

N 8TH STREET

N 7TH STREET

W FIEBRANT ZIMMERMAN AVENUE

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

PRE_115

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 02

PLOT DATE : 3/5/2020 1:39 PM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 945+50

MATCHLINE 958+50

IH 43 SB

IH 43 NB

946 948 950 952 954 956 958

STORAGE

STORAGE

STORAGE

RAMP

SIGN

SIGN

SIGN

OH

FO

MH

GUY

W

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

PRE_116

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 03

PLOT DATE : 3/5/2020 1:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

W GLENDALE AVENUE

N IRONWOOD LANE

N PORT WASHINGTON ROAD

IH 43 SB

IH 43 NB

MATCHLINE 958+50

MATCHLINE 970+50

960

962

964

966

968

970

960HAA

962HAA

964HAA

966HAA

970HAA

970HAB

GUY POLE

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 04

PLOT DATE : 3/5/2020 1:40 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

N IRONWOOD LANE

W ROCK PLACE

MILWAUKEE RIVER

OAK LEAF TRAIL

W HAMPTON AVENUE

RAMP HAB

RAMP HAA

IH 43 SB

IH 43 NB

N PORT WASHINGTON ROAD

MATCHLINE 976+50

MATCHLINE 984+50

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

PRE_118

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 05

PLOT DATE : 3/5/2020 1:40 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

GOLF GREEN

GOLF COURSE

GOLF COURSE

IH 43 SB

IH 43 NB

N PORT WASHINGTON ROAD

W CHATEAU PLACE

MATCHLINE 984+50

MATCHLINE 997+50

986

988

990

992

994

998

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 06

PLOT DATE : 3/5/2020 1:40 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE 997+50

MATCHLINE 1010+50

OAK LEAF TRAIL

IH 43 SB

IH 43 NB

N PORT WASHINGTON ROAD

W MARNE AVENUE

W HENRY CLAY STREET

RIPRAP

RIPRAP

FLAG

SIGN

SLAB

998

1000

1002

1004

1006

1008

1010

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

PRE_120

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 07

PLOT DATE : 3/5/2020 1:41 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 1010+50

N IRONWOOD ROAD

ATHLETIC FIELD

SB ENTRANCE FROM W SILVER SPRING DRIVE

IH 43 SB

1012 1014 1016

IH 43 NB

NB EXIT TO W SILVER SPRING DRIVE

NB EXIT TO N PORT WASHINGTON ROAD

W LEXINGTON BOULEVARD

N PORT WASHINGTON ROAD

NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

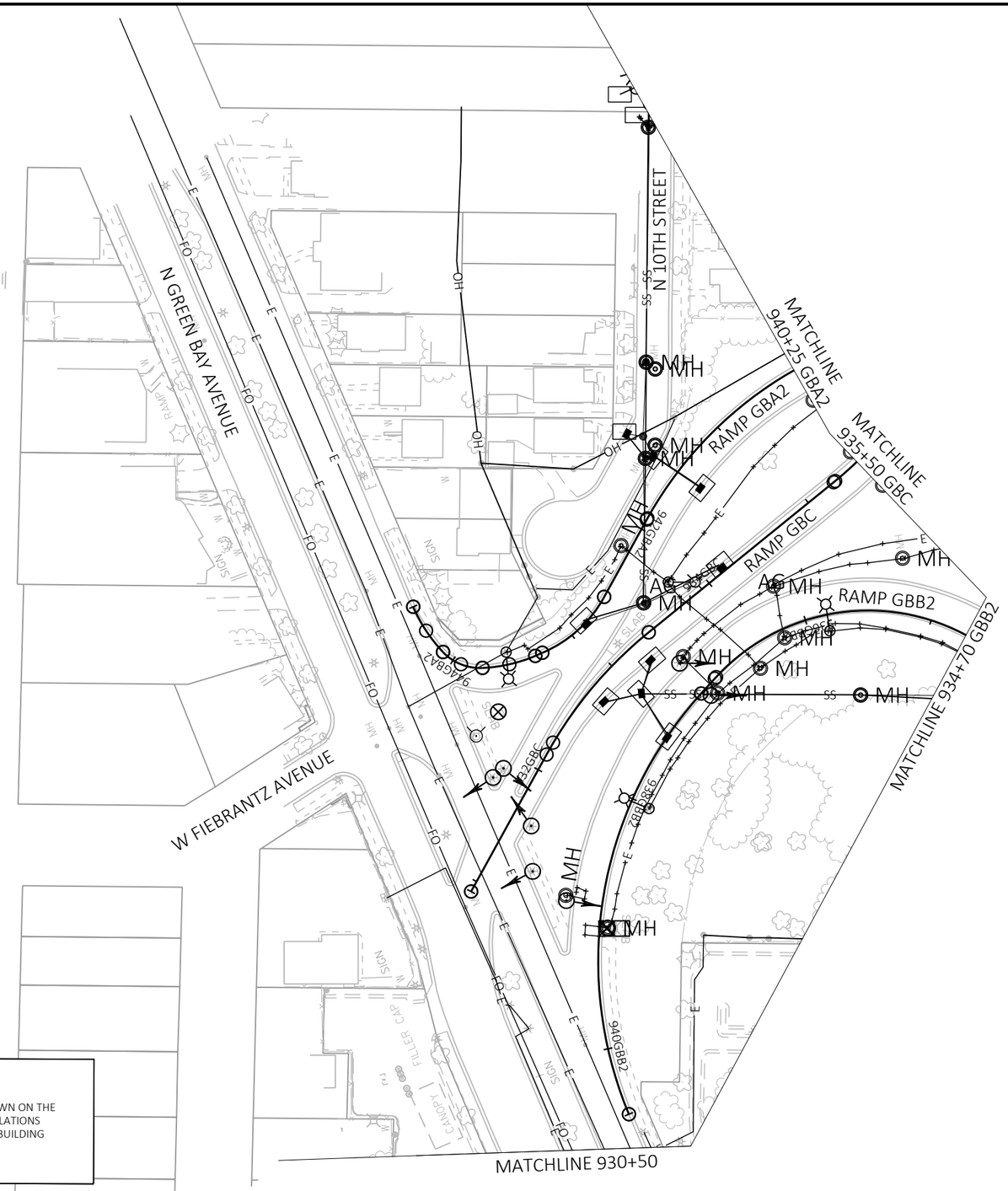
PRE_121

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 08

PLOT DATE : 3/5/2020 1:41 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	EXISTING UTILITY PLAN	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\023001-UP.DWG
LAYOUT NAME - 09

PLOT DATE : 3/5/2020 1:42 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

CONDUCTOR COLORS: 240/480V, 1 PHASE - BLACK / RED / WHITE (NEUTRAL) / BARE OR GREEN (GROUND)

STAGING NOTES

MAINTAIN LIGHTING AT ALL TIMES DURING CONSTRUCTION USING EXISTING LIGHTING, PROPOSED TEMPORARY, FINAL LIGHTING OR COMBINATIONS.

DO NOT REMOVE EXISTING LIGHTING UNTIL THE NEW OR TEMPORARY LIGHTING IS OPERATIONAL. REFER TO DRAWINGS FOR STAGING INFORMATION.

MAINTAINING SYSTEM CONTINUITY SHALL BE INCIDENTAL TO THE "REMOVE EXISTING STREET LIGHTS" BID ITEM.

DUE TO THE PHASING OF CONSTRUCTION SOME FINAL LIGHTING UNITS MAY BE ORPHANED UNTIL A LATER STAGE IS COMPLETE. IT IS AT THE DISCRETION OF THE CONTRACTOR TO SCHEDULE THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE PLACEMENT OF RACEWAY THAT SPANS TWO DIFFERENT PHASES OF CONSTRUCTION. MISCELLANEOUS QUANTITIES SHOW WIRING ADDED WHEN CONDUIT IS INSTALLED. WIRING INSTALLATION MAY BE DEFERRED SUBJECT TO THE LIMITATIONS NOTED HEREIN.

TEMPORARY OR FINAL LIGHTING MUST ILLUMINATE AN AREA BEFORE EXISTING LIGHTING UNITS IN AN AREA CAN BE REMOVED. THE SCHEDULING OF REMOVAL IS AT THE DISCRETION OF THE CONTRACTOR WITH THE PROVISION THAT LIGHTING OF THE ROADWAY IS PROVIDED AT ALL TIMES. COORDINATE POLE REMOVAL WITH TRAFFIC CONTROL.

LEGEND - LIGHTING REMOVALS

- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- XX — DENOTES THE REMOVAL STAGE NUMBER
- XYYZ — EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
  X - CIRCUIT
  YY - DISTRIBUTION CENTER
  Z - POLE/LUMINAIRE ID NUMBER
- XYYZ / XYYZ — EXISTING TWIN ARM FREEWAY LIGHTING UNIT
  X - CIRCUIT
  YY - DISTRIBUTION CENTER
  Z - POLE/LUMINAIRE ID NUMBER
- DISTRIBUTION CENTER
- TRANSFORMER
- ELECTRIC METER SOCKET
- EXISTING HANDHOLE
- EXISTING PULLBOX
- EXISTING UDL (UNDER DECK LIGHTING)
- PHOTOCELL
- CAUTION — DANGER/CAUTION (THIS SYMBOL TYPICAL FOR ALL STAGES/PHASES OF WORK)

LEGEND - LIGHTING TEMPORARY

- DISTRIBUTION CENTER
- V.W / T-XYYZ — FLOOD LIGHT ON WOOD POLE
  V - STATION, W - OFFSET
  T - TEMPORARY LIGHTING
  X - CIRCUIT, YY - DISTRIBUTION CENTER,
  Z - POLE NUMBER
- V.W / WP-XX-Y — WOOD POLE
  V - STATION, W - OFFSET
  WP - WOOD POLE
  XX - DISTRIBUTION CENTER
  Y - POLE NUMBER
- V.W / T-PB-XX-YY — PULL BOX, 24" x 36"
  V - STATION, W - OFFSET
  T - TEMPORARY
  PB - PULLBOX
  XX - DISTRIBUTION CENTER
  YY - PULLBOX NUMBER
- EXISTING SINGLE ARM LOCAL LIGHTING UNIT
- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
- EXISTING TWIN ARM FREEWAY LIGHTING UNIT
- —OH— OVERHEAD CABLE (AERIAL ALUMINUM)
- — — CONDUIT, 2" UNLESS OTHERWISE NOTED
- X/Y — DENOTES THE CONSTRUCTION STAGE FOR INSTALLATION/REMOVAL

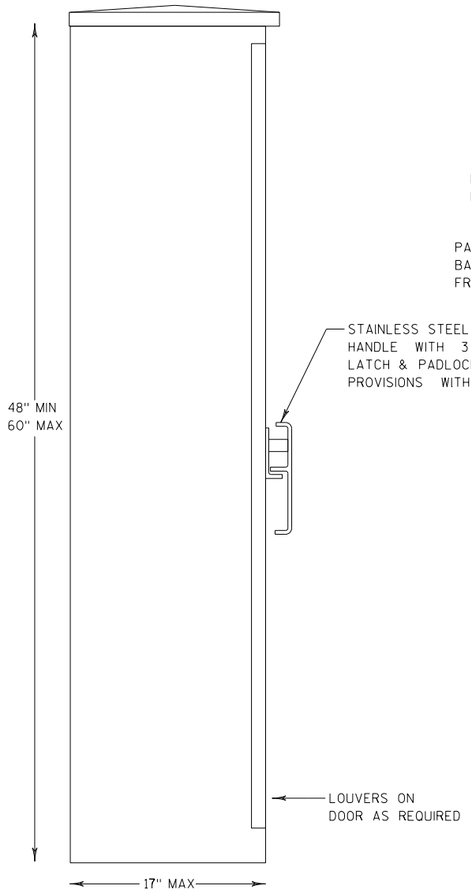
LEGEND - FINAL LIGHTING

- CID (CABLE IN DUCT)
- CABLE IN CONDUIT - SIZE AS NOTED
- PROPOSED SINGLE ARM FREEWAY LIGHTING UNIT
- PROPOSED TWIN ARM FREEWAY LIGHTING UNIT
- EXISTING FREEWAY LIGHTING UNIT TO REMAIN
- LIGHTING CONTROL CABINET
- PULL BOX 24" x 36"
- PULL BOX 24" x 42"
- ELECTRIC METER SOCKET
- SM — DENOTES STRUCTURE MOUNTED
- XX — DENOTES THE CONSTRUCTION STAGE FOR INSTALLATION
- STUBOUT
- LUMINAIRE IDENTIFICATION
  STATION - OFFSET
  LED-X-X(T)-4-XYYZ (TWO CALLOUTS IF TWIN)
  - LUMINAIRE NUMBER
  - LIGHTING CONTROL CABINET } PLAQUE SEQUENCE IDENTIFICATION
  - CIRCUIT
  - LUMINAIRE ARM LENGTH
  - POLE TYPE, (T) WITH TRANSFORMER BASE BREAKAWAY
  - LUMINAIRE UTILITY CATEGORY
  - LUMINAIRE TYPE SOURCE

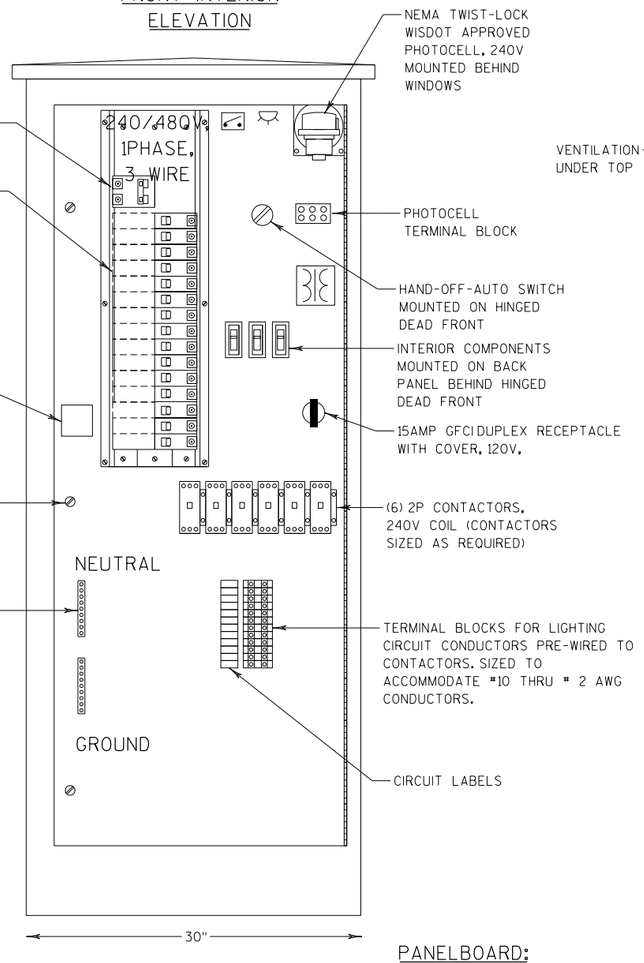
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - GENERAL NOTES	SHEET E

PRE_123

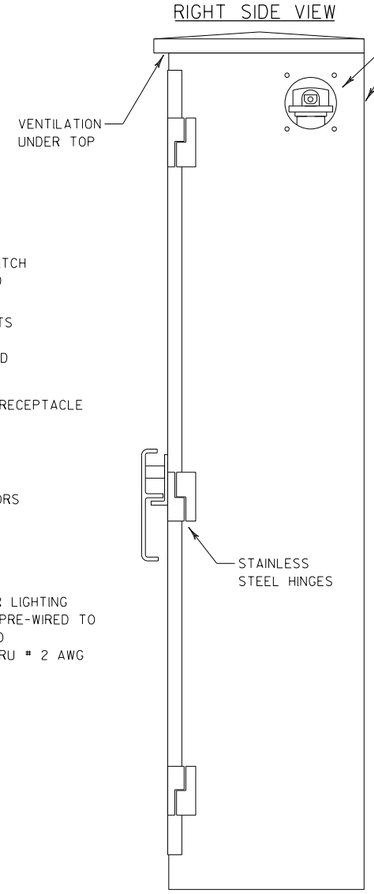
LEFT SIDE VIEW

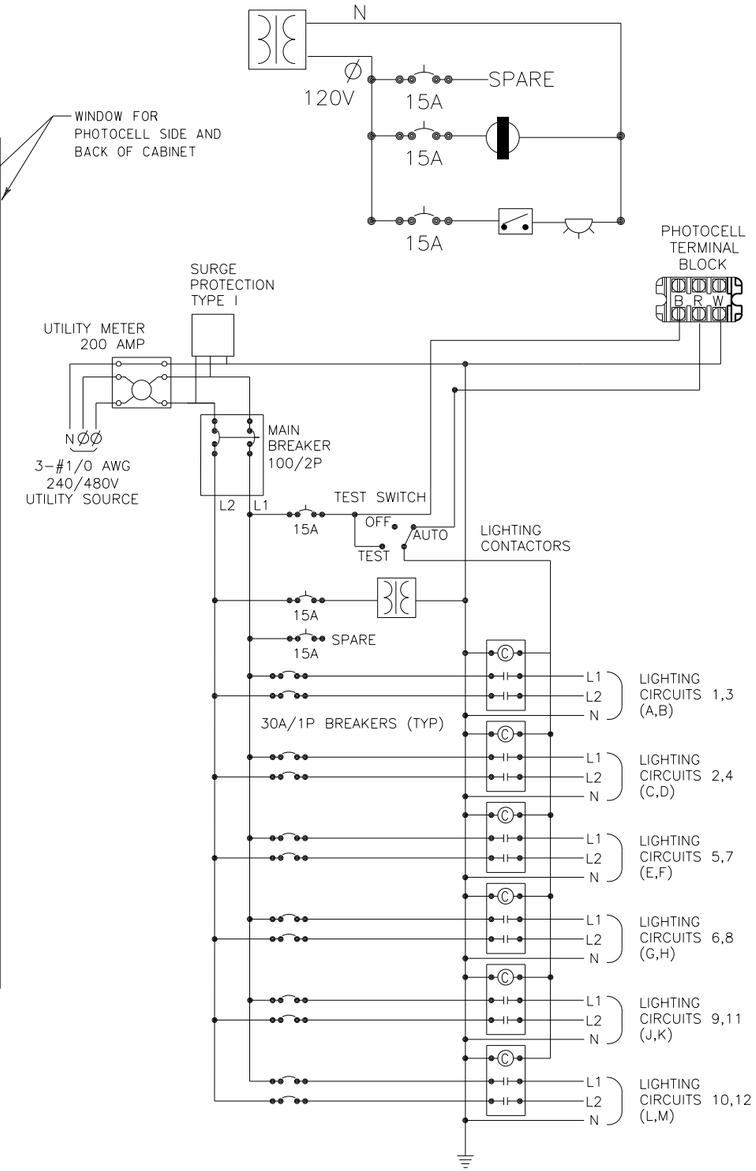


FRONT INTERIOR ELEVATION



RIGHT SIDE VIEW



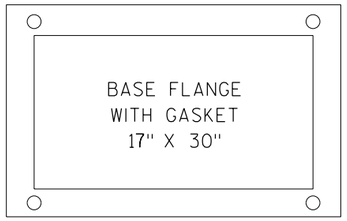


LIGHTING CONTROL CABINET SCHEMATIC

240/480 VOLT
LIGHTING CONTROL
CABINET POV-WISDOT
240/480

LEGEND:

- 15AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V,
- 1.5KVA, SINGLE PHASE ENCAPSULATED TRANSFORMER 240//120V, 60HZ
- SPST, 20AMP SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
- INCANDESCENT LIGHTING FIXTURE 60WATT, 120V LAMP.
- 15AMP/1P CIRCUIT BREAKER, 120V



PANELBOARD:

- 30 CIRCUIT MIN.
- 100AMP MAIN CIRCUIT BREAKER
- COPPER BUS
- BOLT- ON BREAKERS
- 22K AIC
- (2) 15A/1P CONTROL BREAKER, 240V
- (1) 15A/1P CONTROL BREAKER, 240V, SPARE
- (12) 30A/1P BRANCH BREAKERS

BOX CONSTRUCTION:

- NEMA3R
- UL LISTED
- 1/8" ALUMINUM 5052-H32 ANODIZED CLEAR
- BENT CONSTRUCTION - ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/ UL508A

DETAIL - DISTRIBUTION CENTER - DOT

240/480 VOLT LIGHTING CONTROL CABINET POV-WISDOT 240/480

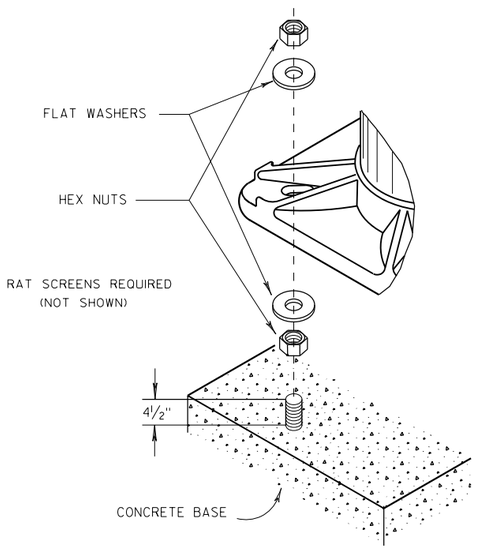
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - DETAILS	SHEET E

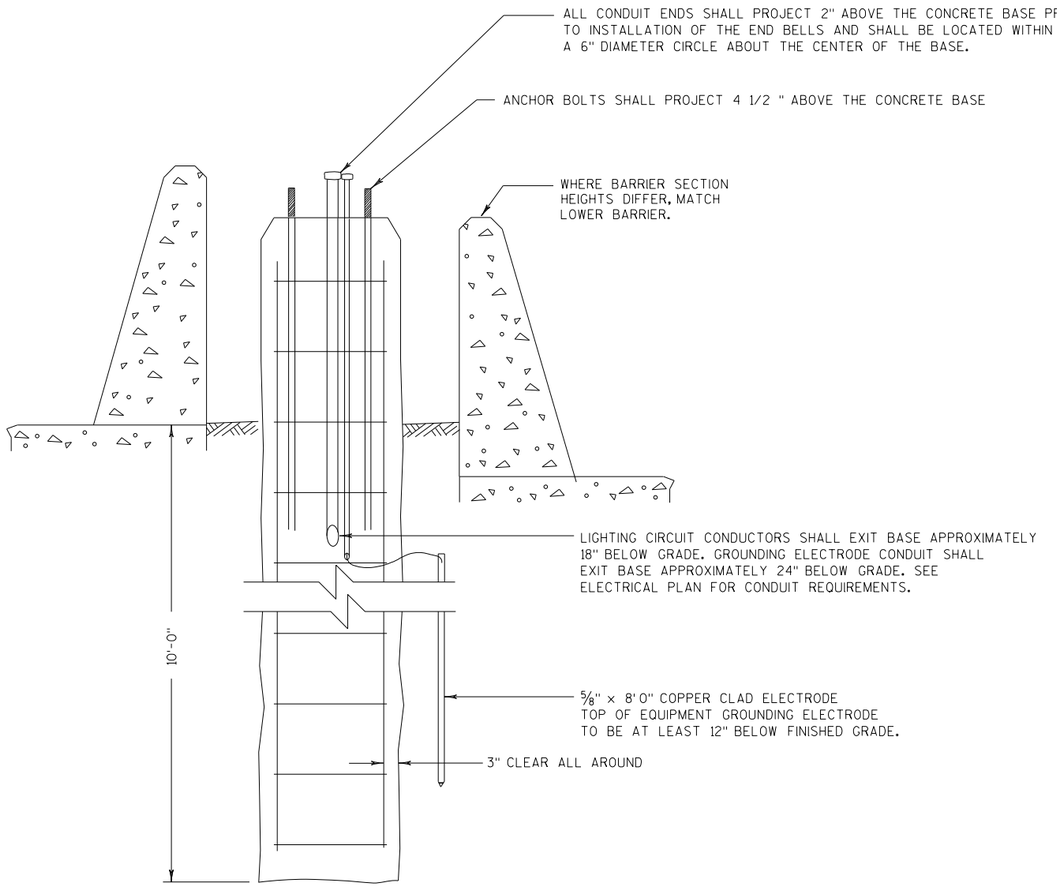
2

NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

DETAILS OF CONSTRUCTION WITH THE EXCEPTION OF HEIGHT ABOVE GRADE AND CONDUIT SIZE SHALL BE AS DEFINED IN THE STANDARD DETAIL FOR TYPE B BASE.

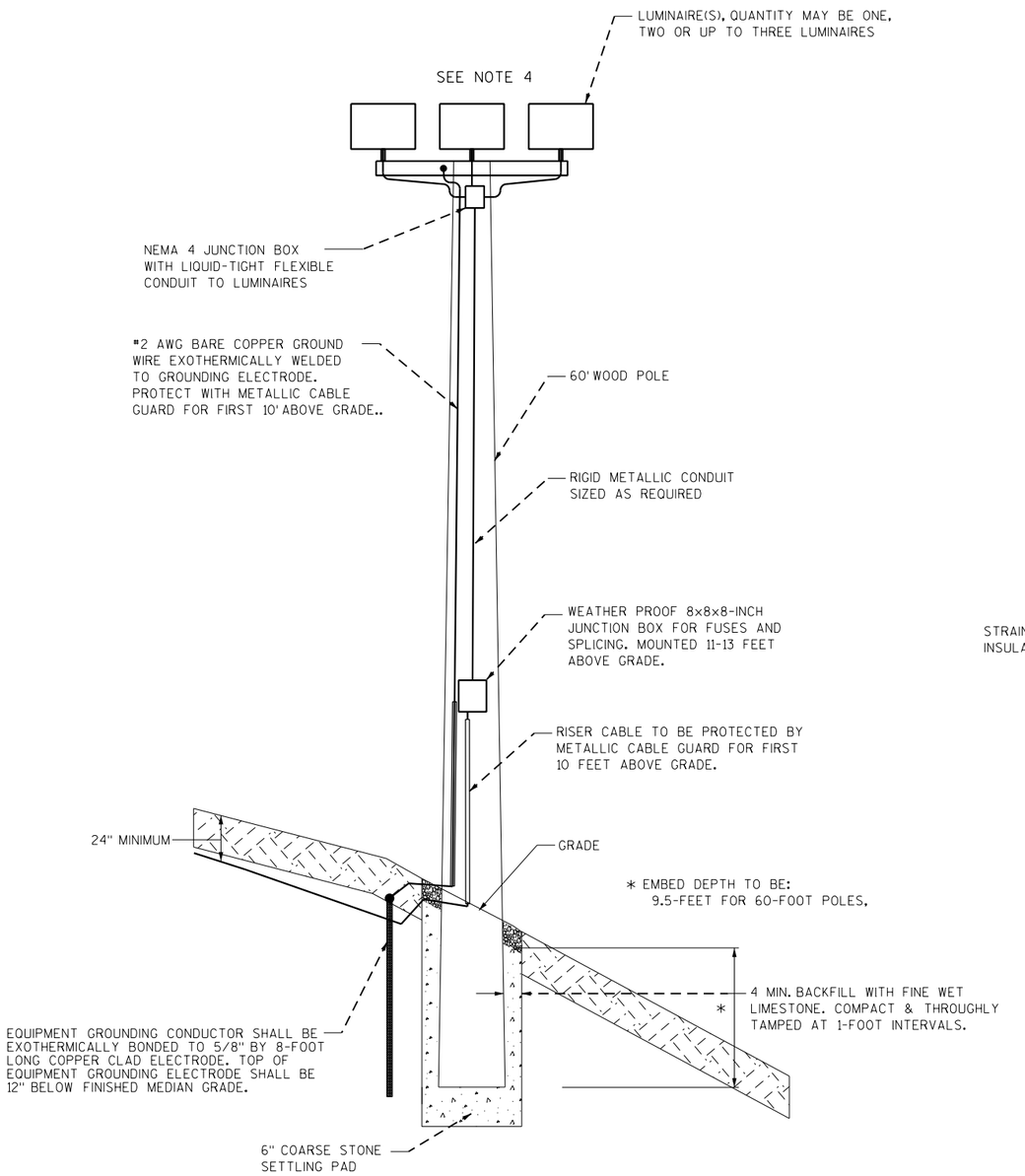




CONCRETE BASE, TYPE "B"

(1" ANCHOR RODS, 15" BOLT CIRCLE, 4 1/2" PROJECTION)

SPV. 0060.1131



WOODEN POLE INSTALLATION DETAIL

NOT TO SCALE
SEE ELECTRICAL DRAWINGS
FOR ADDITIONAL INFORMATION

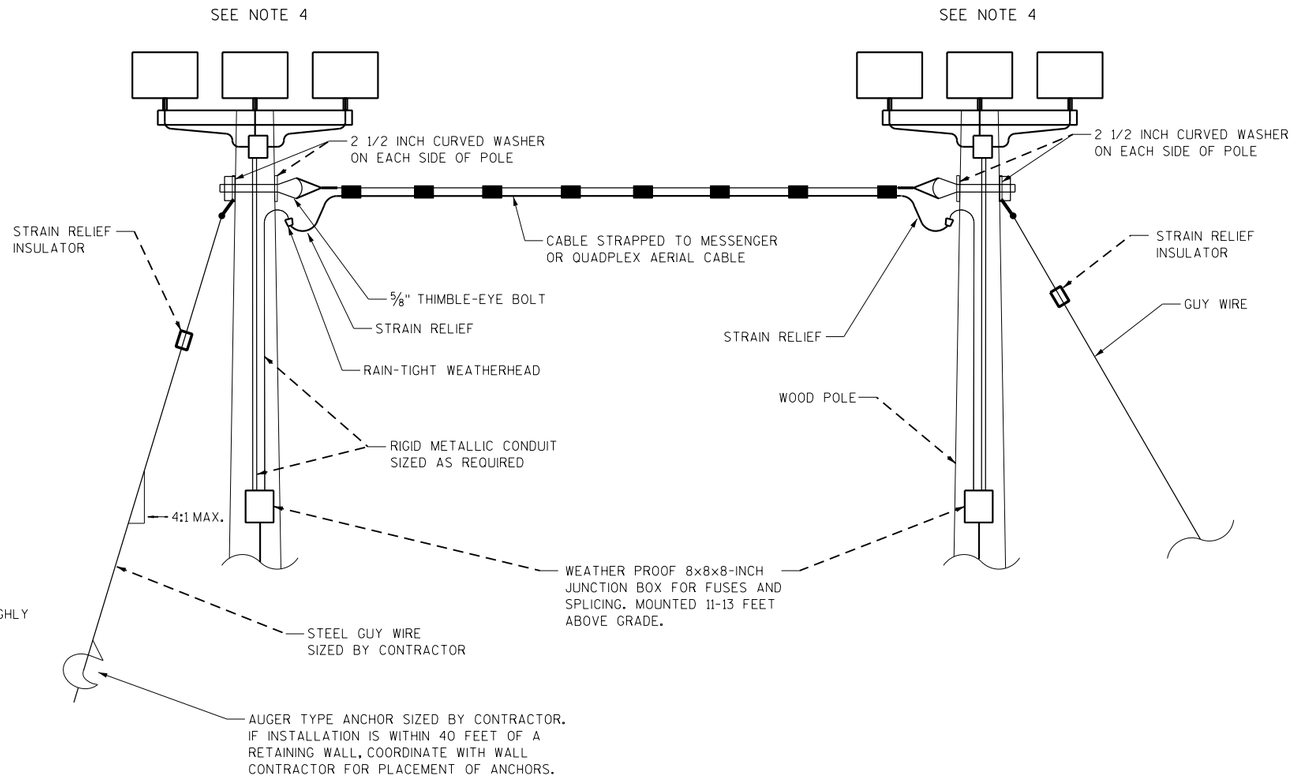
NOTES

1) MINIMUM CLEARANCE AT CENTER OF SPAN: 20-FT. ABOVE ROADWAY OR GRADE.

2) CONSTRUCT DEAD ENDS WITH SECONDARY RACK, CLEVISES, OR OTHER APPROVED METHOD.

3) SECURELY BAND OR CLAMP RISERS TO POLES. USE METALLIC CABLE GUARD TO PROTECT RISERS FOR 10-FEET ABOVE GRADE.

4) FOR CLARITY, LIGHTNING PROTECTION NOT SHOWN. PROVIDE AIR TERMINAL PROTRUDING 18" ABOVE HIGHEST FIXTURE WITH #2 AWG DOWN CONDUCTOR TO A 5/8" X 8-FOOT COPPER CLAD ELECTRODE FOR LIGHTNING PROTECTION. DOWN CONDUCTOR MAY TRAVEL ONLY IN A DOWNWARD DIRECTION UNTIL IT IS CONNECTED TO THE GROUNDING ELECTRODE. LIGHTNING PROTECTION GROUNDING ELECTRODE TO BE BONDED TO EQUIPMENT GROUNDING ELECTRODE WITH BARE, SOLID #2 COPPER CONDUCTOR; EXOTHERMIC WELDS ON BOTH ENDS.



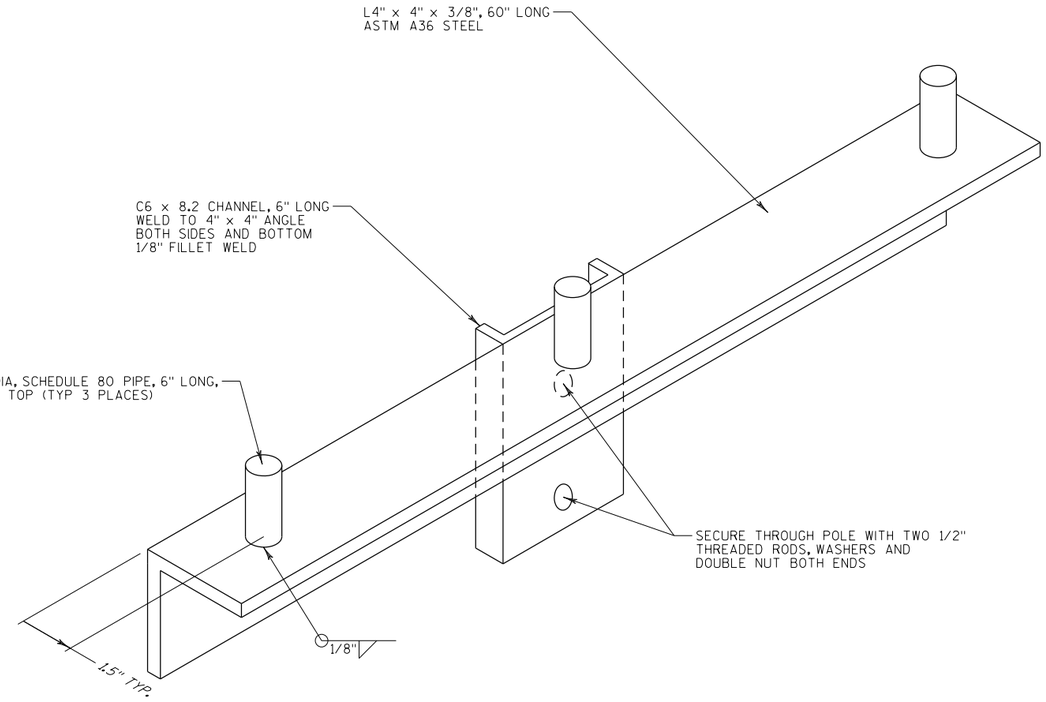
OVERHEAD WIRE DETAIL

NOT TO SCALE
SEE ELECTRICAL DRAWINGS
FOR ADDITIONAL INFORMATION

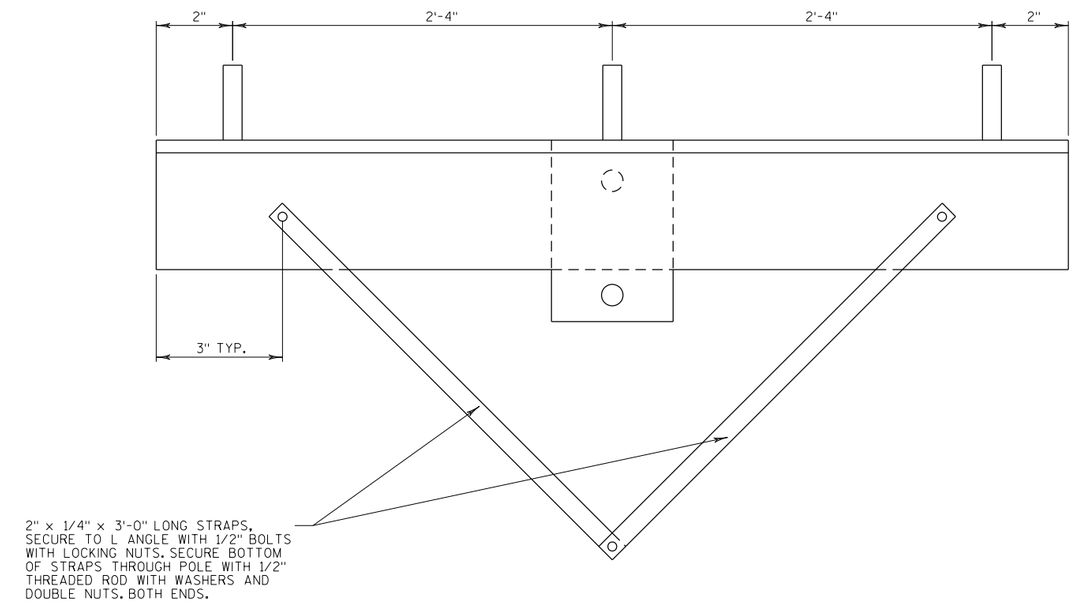
2

NOTES

1) HOT DIP GALVANIZE AFTER FABRICATION.
2) POLE WITH 2 OR 3 LUMINAIRES TO USE BRACKET AS SHOWN. PROVIDE ONLY THE CENTER PORTION WITH 4" L ANGLE, 6" LONG FOR A SINGLE FIXTURE.



ISOMETRIC VIEW
STRAPS NOT SHOWN FOR CLARITY

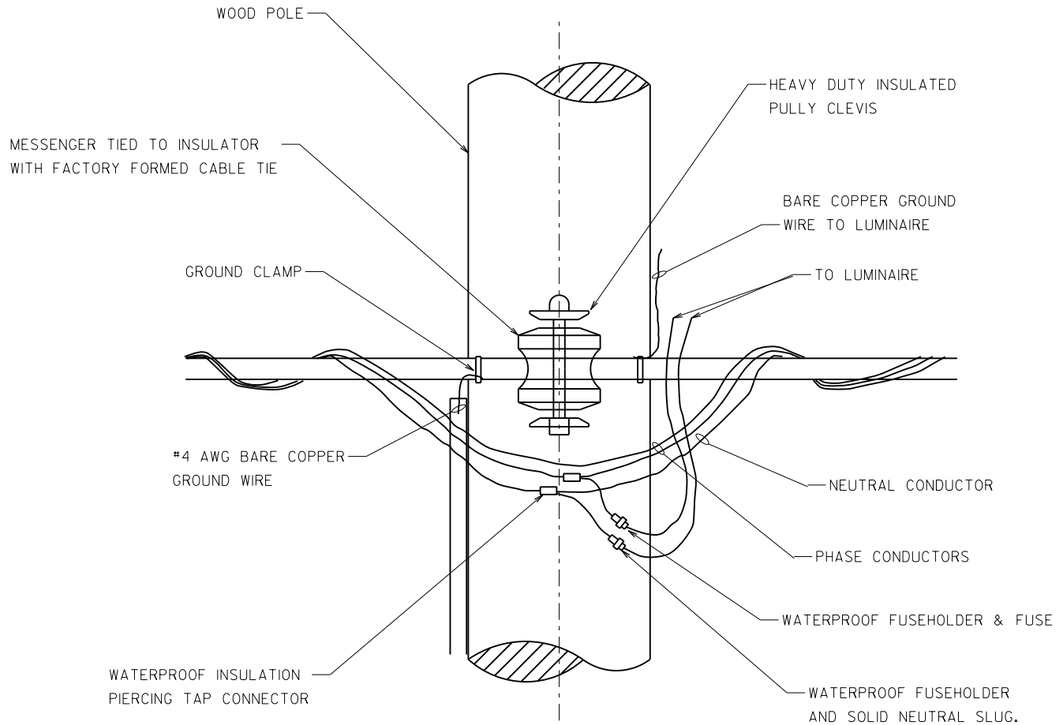


FRONT VIEW

FLOODLIGHT MOUNTING BRACKET

NOT TO SCALE

2



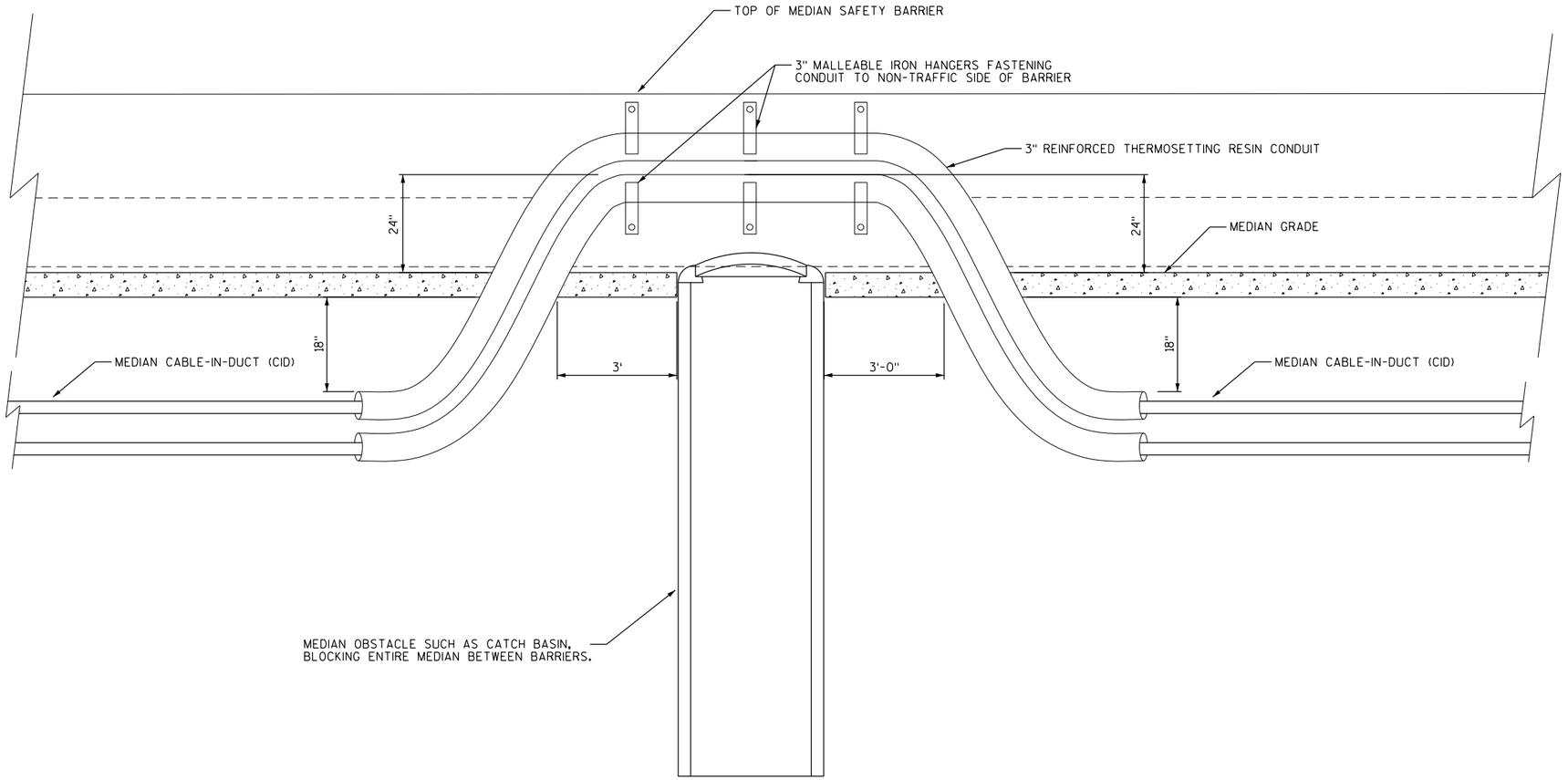
OVERHEAD CABLE SPLICE AT WOOD POLE

NOT TO SCALE

2

NOTE

1. PROVIDE ONLY ONE RTRC CONDUIT IF ONLY ONE CID CKT IN MEDIAN. RTRC CONDUIT IS INCIDENTAL TO THE CID.
2. ROUTE CONDUIT SIMILARLY PAST A MEDIAN OBSTRUCTION. ROUTE WITHOUT A CARRIER CONDUIT.



ROUTING OF CID PAST MEDIAN OBSTACLE

NTS

2

N. GREEN BAY AVE.

N. 9TH ST.

N. 8TH ST.

W. CAPITOL DR.

IH 43 SB

IH 43 NB

NOTE:
1. EXISTING LIGHTING POWERED FROM HL-40-CA TO REMAIN OPERATIONAL AND TO BE REPLACED UNDER PROJECT 1228-09-70.

3 UDL
BCA
NOTE 1

CCA30
NOTE 1

BCA30
NOTE 1

BCA31
NOTE 1

CCA31
NOTE 1

EXPB-CA-006

ECA30
NOTE 1

DCA30
NOTE 1

2 UDL
DCA
NOTE 1

S-40-228 1D
IMV-ECA

BCA31 1D

CCA31 1D

1D ECA32

1D DCA32

MATCHLINE 931+00

3 UDL
CCA
NOTE 1

S-40-42
IMV-A/CA
NOTE 1

2 UDL
CCA
NOTE 1

EXPB-CA-005

EXPB-CA-004

EXPB-CA-003

EXPB-CA-010

EXPB-CA-002

EXPB-CA-001

1 ACA40

ACA41
NOTE 1

ACA42

1 GCA1

DISTRIBUTION CENTER
HL-40-CA

TO REMAIN
HL-40-CA
A,B,C,D, E,G,H BLACK N WHITE GND GREEN OR BARE
A,B,C,D,E,G,H 30A
480V 2 WIRE 1 PHASE, GROUNDED NEUTRAL

FLAG

PLAYGROUND

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_130

2

2

N

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.
2. REPLACE UNDERDECK LIGHTING.

MATCHLINE 939+25

2B GCA12
EXPB-CA-109
2B GCA11
1D DCA35
ECA35 1D
HCA13 3B
EXPB-CA-104
4 UDL
2 @ GCA
2 @ HCA
NOTE 2
GCA14 3B
EXPB-CA-103
HCA15 3B
GCA16 3B
HCA17 3B
EXPB-CA-102
EXPB-CA-105
GCA3
NOTE 1
DCA34 1D
ECA34 1D
EXPB-CA-108
GCA18
NOTE 1
HCA4
NOTE 1
GCA5/HGA5
NOTE 1
EXPB-CA-106
GCA6
NOTE 1
GCA8
NOTE 1
EXPB-CA-107
HCA9
NOTE 1
HCA7
NOTE 1
HCA2
NOTE 1
ECA33 1D
DCA33 1D
GCA10 1D

RAMP GBA
RAMP GBB
RAMP GBC
RAMP GBD
N. GREEN BAY AVE.
IH 43 SB
IH 43 NB
N. 8TH ST.
N. 7TH ST.
W. FIEBRANTZ AVE.

939 938 937 936 935 934 933 932 931

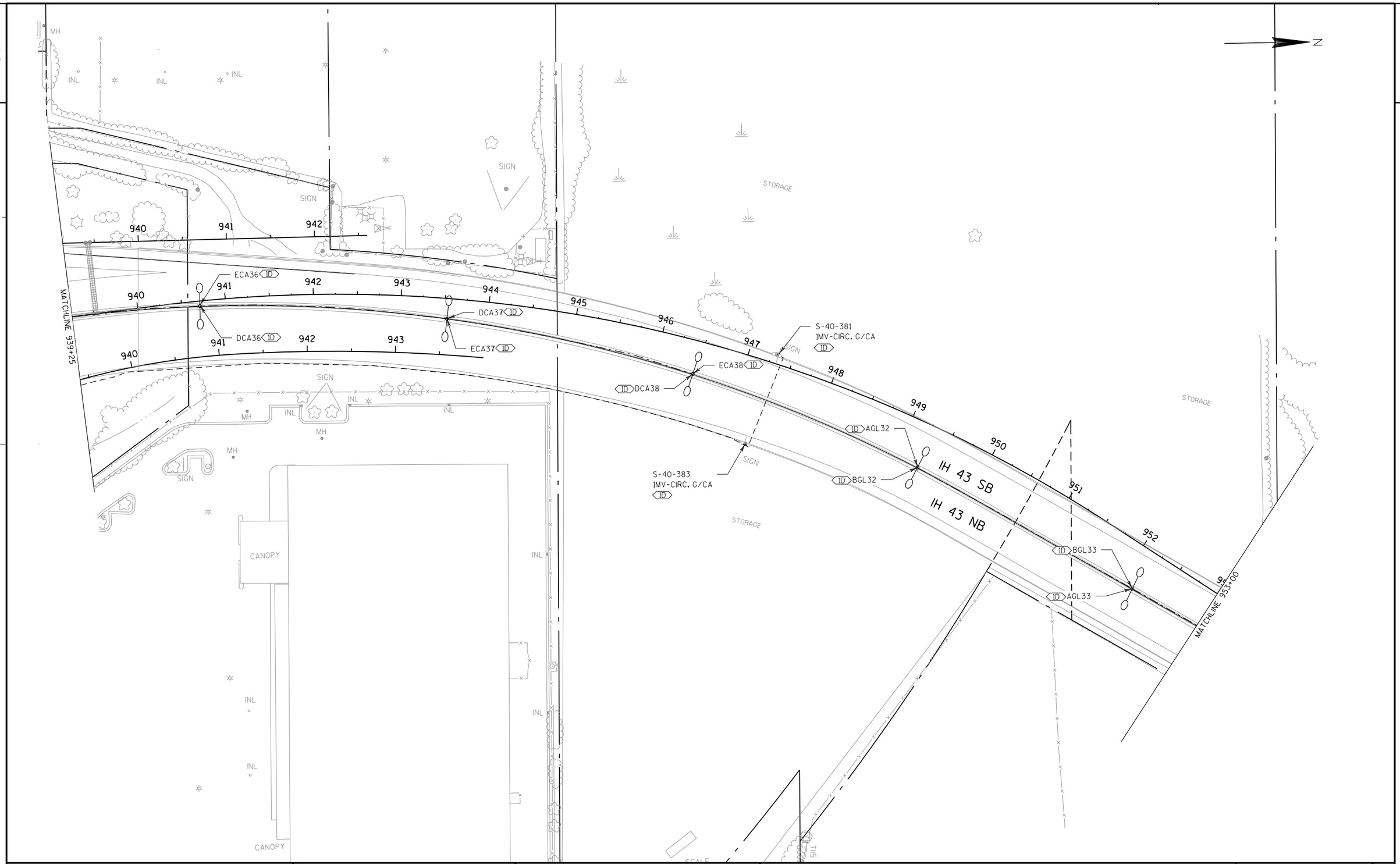
MATCHLINE 931+00

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_131

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023511_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

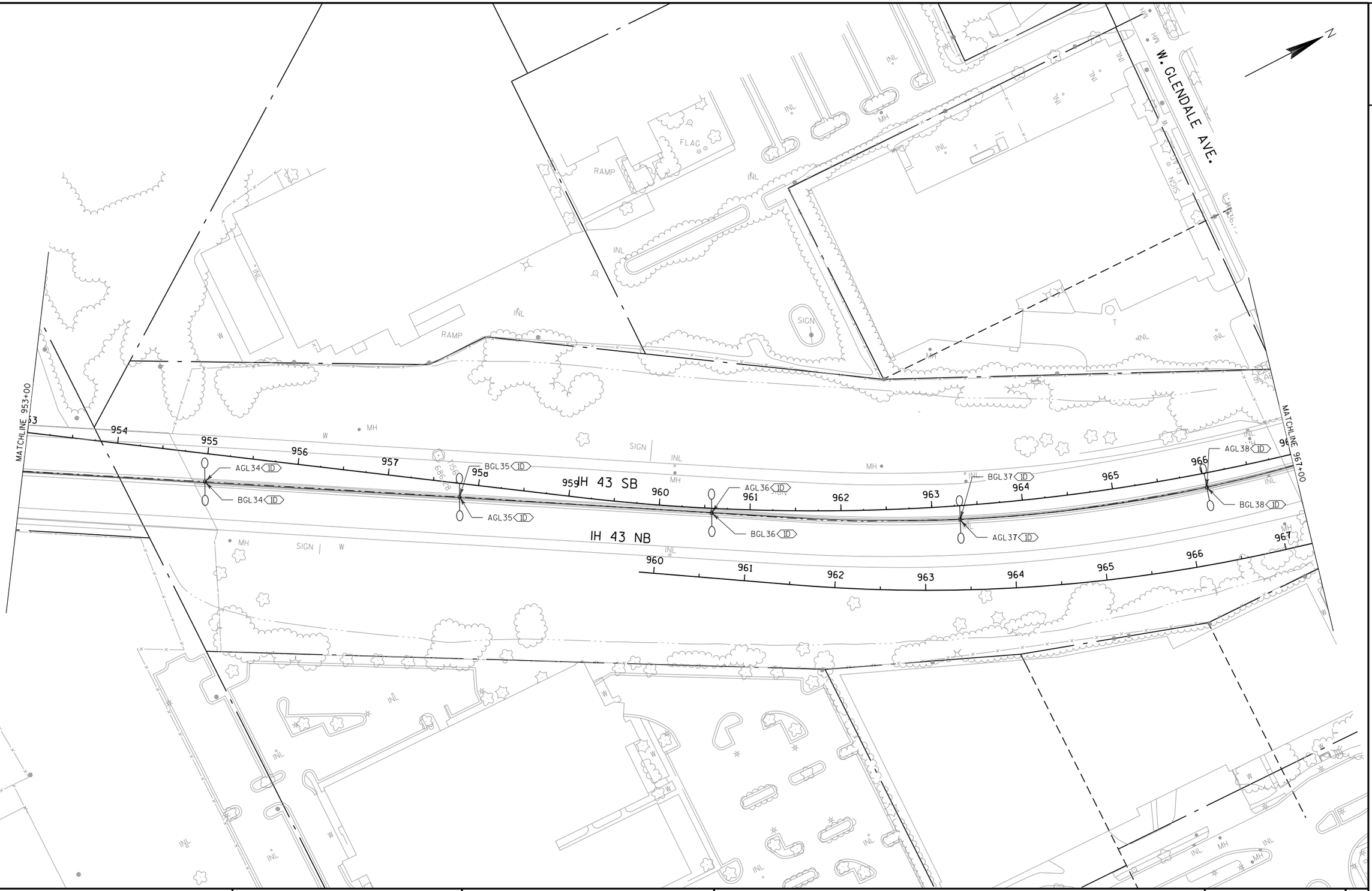
WISDOT/CADDS SHEET 42



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023512_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_133

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WISDOT/CADDS SHEET 42

2

REMOVAL

HL-40-GL	
A,B,C,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
480V 2 WIRE 1 PHASE, GROUNDED NEUTRAL	

DISTRTIBUTION CENTER
HL-40-GL
2B

EXPB-GL-110
EXPB-GL-111
EXPB-GL-114
EXPB-GL-113
EXPB-GL-112

DGL40 2B
DGL41 2B
DGL42 2B
DGL43 2B
DGL44 2B
DGL45 2B

DGL31 2A
DGL32 2A
DGL33 2A
CGL31 2A
CGL32 2A
CGL33 2A
CGL34 2A
DGL34 2A
DGL35 2A
CGL35 2A

S-40-170
SB
1MV-CGL IC

S-40-170
NB
1MV-CGL IC

CGL24 IC
CGL41 IC
CGL42 IC

IH 43 SB
IH 43 NB

MATCHLINE 967+00
MATCHLINE 981+00

W. GLENDALE AVE.
N. PORT WASHINGTON RD.

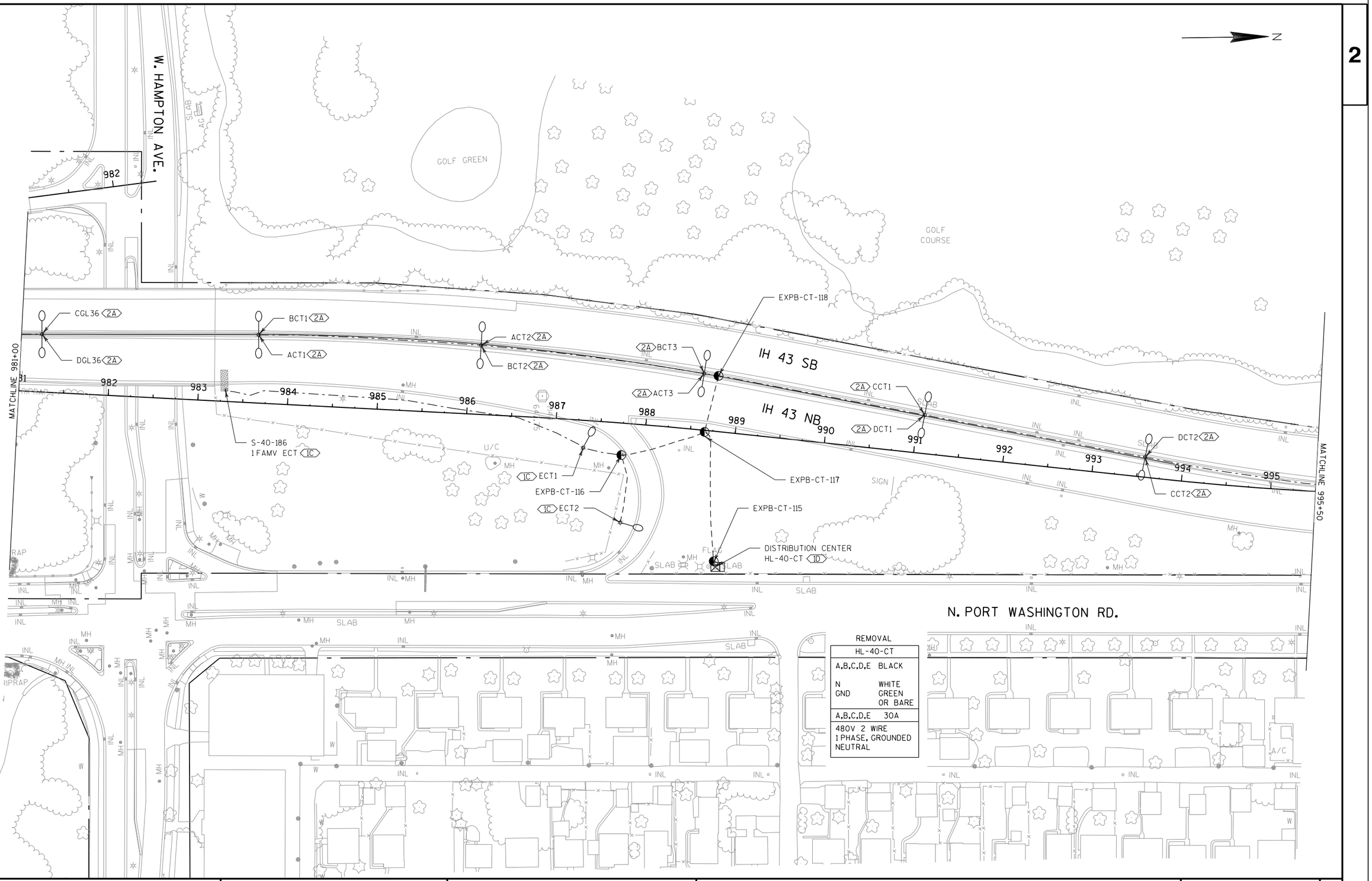
RIPRAP
SLAB
SIGN
BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_134

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WISDOT/CADDS SHEET 42



REMOVAL
HL-40-CT
A,B,C,D,E BLACK
N WHITE GND GREEN OR BARE
A,B,C,D,E 30A
480V 2 WIRE 1 PHASE, GROUNDED NEUTRAL

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_135

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023515_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.

GOLF COURSE

OAK LEAF TRAIL

IH 43 SB

IH 43 NB

N. PORT WASHINGTON RD.

MATCHLINE 955+50

MATCHLINE 1010+00

996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009

CCT3 2A

DCT3 2A

2A DCT4

2A CCT4

2A DCT5

2A CCT5

DCT31 2A

EXPB-CT-121

EXPB-CT-120

EXPB-CT-119

2A CCT21

CCT32 NOTE 1

DCT32 NOTE 1

CCT22 NOTE 1

DCT21 NOTE 1

RIPRAP

FLAG

SIGN

SLAB

INL

MH

W

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023516_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.

N. IRONWOOD RD.

IH 43 SB

IH 43 NB

N. PORT WASHINGTON RD.

W. LEXINGTON BLVD.

ATHLETIC FIELD

CCT33 NOTE 1

DCT33 NOTE 1

CCT34 NOTE 1

DCT34 NOTE 1

DCT22 NOTE 1

S-40-257 3MV-CGL 10

CCT23 NOTE 1

DCT23 NOTE 1

MATCHLINE 1010+00

10 1011 1012 1013 1014 1015 1016

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET E

PRE_137

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023517_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N. GREEN BAY AVE.

N. 9TH ST.

IH 43 SB

IH 43 NB

921 922 923 924 925 926 927 928 929 930

MATCHLINE 931+00

STA. 930+24.14, 84.90' RT
TBCA4

STA. 928+63.49, 68.09' RT
TACA1

STA. 920+55.30, 84.27' RT
TBCA3

STA. 922+14.21, 19.37' RT
TACA3

STA. 923+11.59, 67.54' RT
TBCA2

STA. 925+05.84, 62.03' RT
TACA2

STA. 926+66.84, 65.52' RT
TBCA1

N. 8TH ST.

W. CAPITOL DR.

DISTRIBUTION CENTER
HL-40-CA

PLAYGROUND

FLAG

SLAB

SIGN

OH

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023518_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

2

N

MATCHLINE 939+25

MATCHLINE 931+00

N. GREEN BAY AVE.

IH 43 SB

IH 43 NB

RAMP GBA

RAMP GBC

W. FIEBRANTZ AVE.

N. 8TH ST.

N. 7TH ST.

STA. 937+53.03, 121.99' RT
TACA8

STA.935+32.53, 68.11' RT
TACA7/TBCA7

STA.935+32.53, 68.11' RT
TACA5

STA. 933+59.16, 83.88' RT
TACA6/TBCA6

STA. 931+79.56, 72.73' RT
TBCA5

STA. 931+59.59, 122.20' RT
TACA4

GCA10

939 938 937 936 935 934 933 932 931

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

PRE_139

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023519_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

MH
INL
INL
INL
SIGN
SIGN
940
941
942
940
941
942
943
944
945
946
947
948
949
950
951
952
953
940
941
942
943
MATCHLINE 939+25
MATCHLINE 953+00
STORAGE
STORAGE
SIGN
SIGN
IH 43 SB
IH 43 NB
SIGN
MH
INL
INL
MH
INL
MH
STA. 939+83.54, 75.64' RT
TBCA8
SIGN
CANOPY
INL
INL
INL
CANOPY
INL
SCALE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

PRE_140

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023520_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

2

W. GLENDALE AVE.

IH 43 SB

IH 43 NB

MATCHLINE 953+00

MATCHLINE 967+00

STA. 954+33.33, 143.41' LT
TBGL4

STA. 956+31.98, 126.16' LT
TAGL4

STA. 958+31.81, 139.92' LT
TBGL3

STA. 960+31.78, 134.23' LT
TAGL3

STA. 962+41.34, 122.51' LT
TBGL2

STA. 964+57.92, 142.57' LT
TAGL2

STA. 966+77.48, 145.68' LT
TBGL1

STA. 954+74.95, 67.08' LT
TATA7

STA. 957+09.28, 71.20' LT
TBTA6

STA. 959+02.28, 84.20' LT
TATA6

STA. 960+22.13, 88.91' LT
TBTA5

STA. 961+86.79, 113.61' LT
TATA5

STA. 963+54.25, 112.34' LT
TBTA4

STA. 965+49.09, 105.93' LT
TATA4

STA. 966+75.52, 100.44' LT
TBTA3

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023521_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

PRE_141

WISDOT/CADDS SHEET 42

2

2

N

STA. 967+68.55, 130.22' LT
TAGL1

DISTRTIBUTION CENTER
HL-40-GL

STA. 968+30.47, 136.70' LT
TAGL5

STA. 970+44.27, 134.98' LT
TBGL5

STA. 972+43.95, 130.03' LT
TAGL6

STA. 974+43.79 , 127.64' LT
TBGL6

STA. 976+43.51, 139.31' LT
TAGL7

MATCHLINE 967+00

IH 43 SB

IH 43 NB

MATCHLINE 981+00

W. GLENDALE AVE.

N. PORT WASHINGTON RD.

STA. 972+17.80 , 43.91' RT
TATA2

STA. 973+66.33, 150.47' RT
TBTA1

STA. 969+98.80, 142.07' RT
TBTA2

STA. 974+62.48, 166.91' RT
TATA1

STA. 968+25.13, 139.12' RT
TATA3

STA. 974+97.95, 193.71' RT
TA1
TEMPORARY LIGHTING CABINET

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023522_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

PRE_142

WISDOT/CADDS SHEET 42

2

N

W. HAMPTON AVE.

GOLF GREEN

GOLF COURSE

IH 43 SB

IH 43 NB

MATCHLINE 981+00

MATCHLINE 995+50

982 983 984 985 986 987 988 989 990 991 992 993 994 995

CCT1

DCT1

SIGN

STA. 983+10.49, 182.56' LT
TBCT2

STA. 984+28.88, 214.67' LT
TACT2

STA. 986+45.27, 206.26' LT
TBCT1

STA. 988+54.15, 163.66' RT
TACT1

DISTRIBUTION CENTER
HL-40-CT

STA. 989+10.31, 198.59' RT
WP-CT-1

STA. 992+26.54, 125.40' RT
TBCT3

N. PORT WASHINGTON RD.

STA. 990+26.39, 133.36' RT
TACT3

STA. 994+23.99, 105.74' RT
TACT4

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

PRE_143

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023523_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

N

GOLF COURSE

OAK LEAF TRAIL

MATCHLINE 955+50

MATCHLINE 1010+00

IH 43 SB

IH 43 NB

996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 10

STA. 996+12.20, 71.00' RT
TBTA4

STA. 998+06.74, 73.56' RT
TATA5

STA. 1000+06.18, 86.94' RT
TBTA5

N. PORT WASHINGTON RD.

RIPRAP

FLAG

SIGN

SLAB

A/C

OH

INL

MH

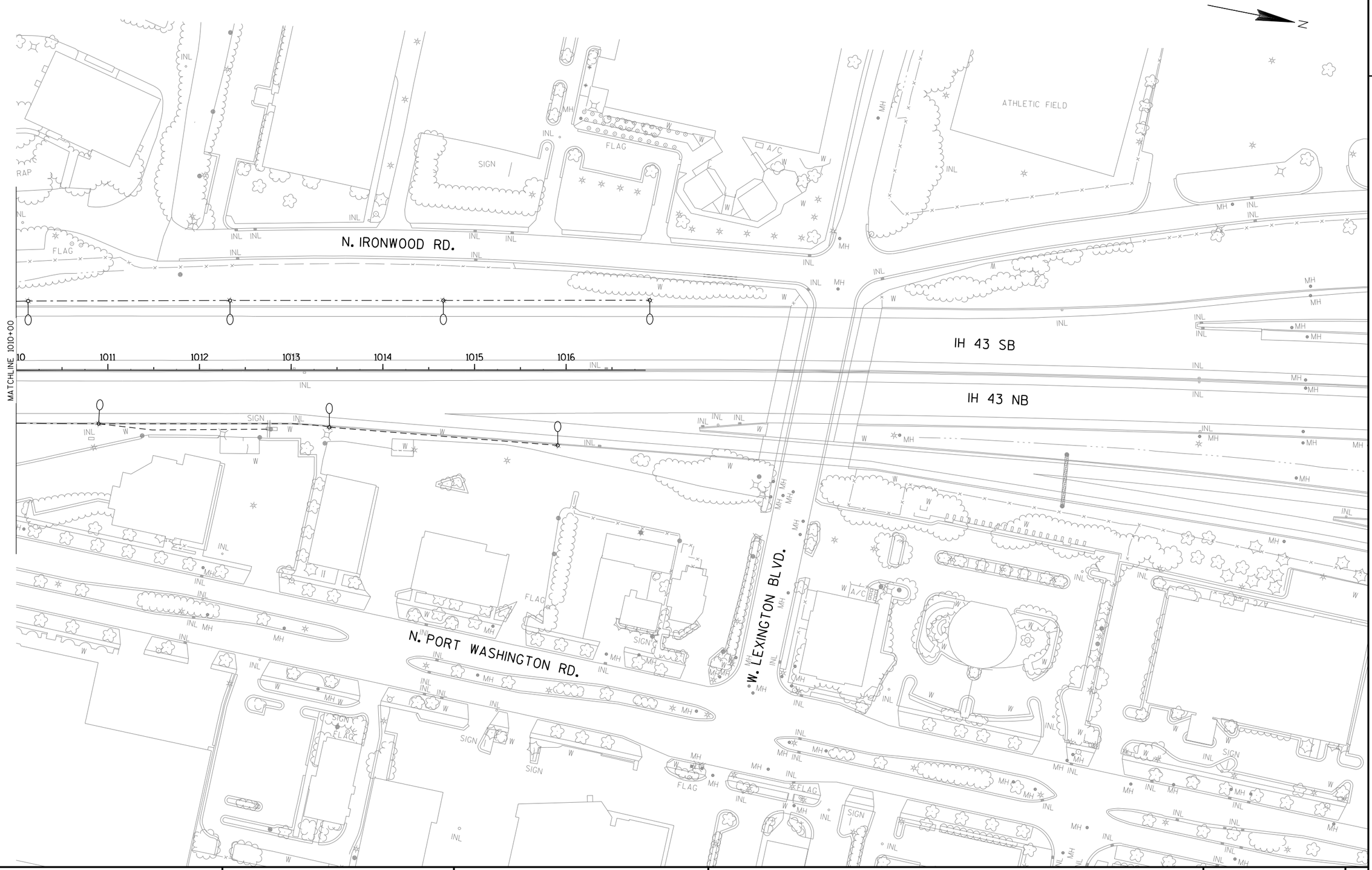
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023524_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - TEMPORARY	SHEET E

PRE_145

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023525_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

W. CAPITOL DR.

IH 43 SB

IH 43 NB

N. GREEN BAY AVE.

3UDL BCA
EXISTING
NOTE 2

BCA30/CCA30
EXISTING
NOTE 2

BCA31/CCA31
EXISTING
NOTE 2

BCA30/CCA30
EXISTING
NOTE 2

2UDL DCA
EXISTING
NOTE 2

3UDL CCA
EXISTING
NOTE 2

2UDL ECA
EXISTING
NOTE 2

ACA40
EXISTING
NOTE 2

S-40-421MV-A/CA
EXISTING
NOTE 2

ACA41
EXISTING
NOTE 2

ACA42
EXISTING
NOTE 2

STA. 929+65.9, 67.0'LT
LED D-A(T)-4-ACB4

STA. 926+98.9, 63.1'LT
LED D-A(T)-4-BCB4

STA. 927+10.9, 63.3'LT
PB-CB-3

STA. 929+65.6, 68.6'LT
LED D-A(T)-4-BCB1

STA. 928+63.4, 101.1'RT
EXHL-40-CA
NOTE 1

STA. 927+01.1, 60.3'LT
LED D-A(T)-4-ACB1

STA. 927+11.1, 60.3'RT
PB-CB-2

STA. 927+94.3, 93.3'RT
PB-CB-1

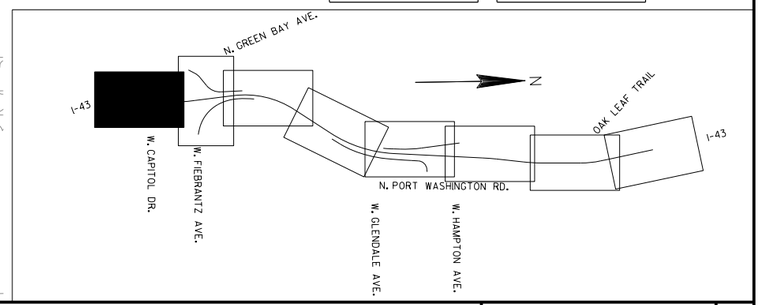
STA. 928+06.0, 92.6'RT
HL-40-CB

MATCHLINE 931+00

NEW	
HL-40-CB	
A,B	BLACK
C,D	RED
N	WHITE
GND	BARE OR GREEN
A,B,C,D 30A	
240/480V 1 PHASE, ISOLATED NEUTRAL	

TO REMAIN	
EXHL-40-CA	
A,B,C,D, E,G,H	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D,E,G,H 30A	
480V 2 WIRE 1 PHASE, GROUNDED NEUTRAL	

NOTE:
1. EXISTING HL-40-CA TO REMAIN.
2. EXISTING LIGHTING POWERED FROM HL-40-CA TO REMAIN.



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_146

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023530_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

N

MATCHLINE 939+25

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.
1. REPLACE UNDERDECK LIGHTING.

STA. 937+60.0, 57.9'LT
LED D-A(T)-4-BCB6

STA. 937+94.2, 107.1'LT, SM
LED B-5(T)-4-DCB12

R-40-710

STA. 936+55.3, 60.0'RT
LPB-CB-7

STA. 936+75.0, 43.8'RT
LPB-CB-8

R-40-711

STA.935+74.8, 18.4'LT
LPB-CB-9

STA. 935+68.0, 50.0'LTLT
LED-D-DCB11
NOTE 1

STA. 935+61.1, 17.8'LT
LED B-CCB12
NOTE 1

STA. 933+66.6, 66.3'
EXLPB-CB-26

STA. 932+60.6, 70.3'
LED B-CCB11
NOTE 1

STA. 933+83.3, 24.1'RT
LPB-CB-8
NOTE 1

STA. 938+25.1, 19.1RT'
LED B-5(T)-8-DCB3

STA. 937+60.0, 57.0'RT
LED D-A(T)-4-ACB3

UDL-DCB6
LED B
NOTE 2

STA. 935+75.2, 66.7'RT
LPB-CB-5

STA. 936+19.0, 18.0'RT
LED B-5(T)-8-CCB3

STA. 935+65.7, 19.0'RT
LPB-CB-4

UDL-CCB6
LED B
NOTE 2

UDL-DCB7
LED B
NOTE 2

UDL-CCB7
LED B
NOTE 2

STA. 935+00.0, 57.0'LT
LED D-A(T)-4-ACB5

STA. 934+52.0' 88.2'RT
LED D-DCB8
NOTE 1

STA. 934+16.8, 111.4'LT
LPB-CB-6

STA. 933+90.9, 77.0'RT
EXLPB-CB-25

STA. 933+77.0, 21.0'LT
LED B-CCB10/DCB10
NOTE 1

STA. 933+70.9, 101.0'LT
LED D-CCB9
NOTE 1

STA. 932+17.8, 90.6'RT
LED D-CCB8
NOTE 1

STA. 932+35.8, 72.1'LT
LED D-A(T)-4-BCB5

STA. 934+12.8, 18.0'RT
LED B-5(T)-8-DCB2

STA. 932+06.0, 18.0'RT
LED B-5(T)-8-CCB2

STA. 935+40.2' 146.5'RT
EXLPB-CB-22

STA. 935+21.5' 110.5'RT
EXLPB-CB-21

STA. 935+00.0, 57.3'RT
LED D-A(T)-4-BCB2

STA. 934+86.2, 119.8'RT
LED D-CCB5
NOTE 1

STA. 932+59.6, 96.2'RT'
LED D-DCB5
NOTE 1

STA. 931+88.3, 124.3'RT
LPB-CB-4

STA. 932+35.0, 56.4'RT
LED D-A(T)-4-ACB2

RAMP GBC

RAMP CBB

RAMP GBA

RAMP CBD

IH 43 SB

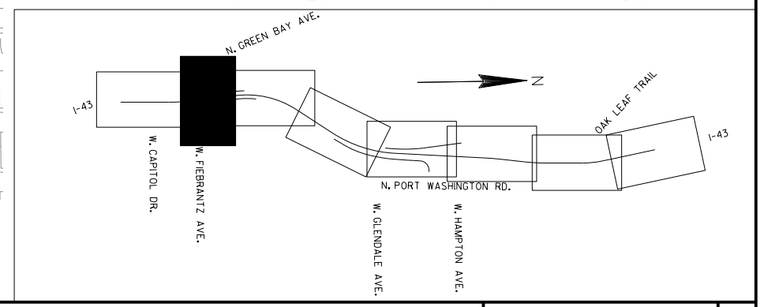
IH 43 NB

N. GREEN BAY AVE.

N. 7TH ST.

W. FIEBRANTZ AVE.

MATCHLINE 931+00



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_147

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023532_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

2

STA. 940+18.5, 91.9'LT , SM
LED D-A(T)-6-FGL9

STA. 942+16.6, 86.0'LT , SM
LED D-A(T)-6-EGL8

STA. 944+33.0, 86.0'LT, SM
LED D-A(T)-6-FGL8

STA. 946+43.7, 85.7'LT , SM
LED D-A(T)-6-EGL7

R-40-707

STA. 948+55.3, 86.0'LT, SM
LED D-A(T)-6-FGL7

STA. 952+66.9, 86.0'LT , SM
LED D-A(T)-6-FGL6

STA. 950+61.9, 86.0'LT, SM
LED D-A(T)-6-EGL6

MATCHLINE 939+25

IH 43 SB

IH 43 NB

MATCHLINE 953+00

R-40-706

STA.942+22.9, 85.8'RT, SM
LED D-A(T)-6-FGL14

STA. 944+32.7, 86.3'RT , SM
LED D-A(T)-6-EGL14

STA. 940+12.7, 86.0'RT, SM
LED D-A(T)-6-EGL15

STA. 946+42.4, 86.0'RT , SM
LED D-A(T)-6-FGL13

STA. 948+52.9, 86.0'RT , SM
LED D-A(T)-6-EGL13

STA. 950+63.5, 92.3'RT
LED D-A(T)-4-FGL12

STA. 952+66.8, 92.2'RT
LED D-A(T)-6-EGL12

N. GREEN BAY AVE.
I-43
W. CAPITOL DR.
W. FIEBRANTZ AVE.
W. GLENDALE AVE.
W. HAMPTON AVE.
N. PORT WASHINGTON RD.
OAK LEAF TRAIL
I-43

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_148

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023534_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

2

2

N

W. GLENDALE AVE.

IH 43 SB

IH 43 NB

MATCHLINE 953+00

MATCHLINE 967+00

STA. 954+65.5, 86.0'LT , SM
LED D-A(T)-6-EGL5

STA. 956+64.2, 86.1'LT, SM
LED D-A(T)-6-FGL5

STA. 958+63.0, 93.2'LT
LED D-A(T)-6-EGL4

STA. 960+57.2, 92.1'LT
LED D-A(T)-6-FGL4

STA. 961+25.0, 93.6'LT
LPB-GL-5

R-40-713

STA. 966+73.3, 0.0'LT
LED D-A(T)-4-EGL1

STA. 964+08.0, 0.0'LT
LED D-A(T)-4-FGL2

STA. 961+44.1, 0.0'LT
LED D-A(T)-4-EGL3

STA. 961+44.1, 0.0'LT
LED D-A(T)-4-FGL3

STA. 954+82.8, 86.0'RT, SM
LED D-A(T)-6-FGL11

STA. 961+87.5, 0.0'LT
LPB-GL-6

STA. 953+79.0, 97.6'RT
LPB-GL-7

STA. 956+64.2, 86.1'RT , SM
LED D-A(T)-6-EGL11

STA. 958+62.7, 86.0'RT, SM
LED D-A(T)-6-FGL10

STA. 960+56.3, 86.3'RT, SM
LED D-A(T)-6-EGL10

STA. 953+20.4, 86.3'RT, SM
LED D-A(T)-6-EGL9

STA. 961+25.0, 0.0'LT
LPB-GL-4

STA. 963+00, 8.8'RT, SM
LED B-5(T)-4-KGL1

STA. 964+08.0, 0.0'LT
LED D-A(T)-4-EGL2

STA. 965+00, 8.8'RT, SM
LED B-5(T)-4-LGL1

STA. 966+73.3, 0.0'LT
LED D-A(T)-4-FGL1

STA. 967+00, 8.8'RT, SM
LED B-5(T)-4-KGL2

CAUTION

RAMP

FLAG

SIGN

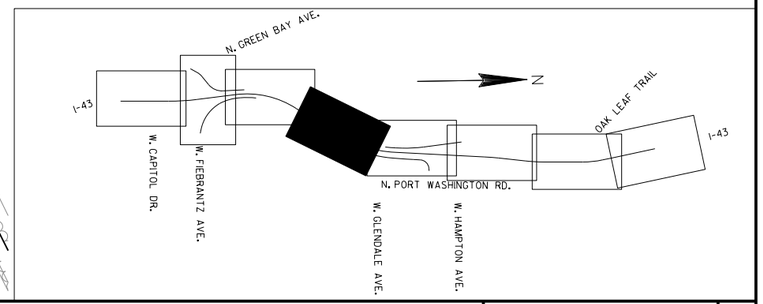
MH

INL

OHL

W

3-3"



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023536_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

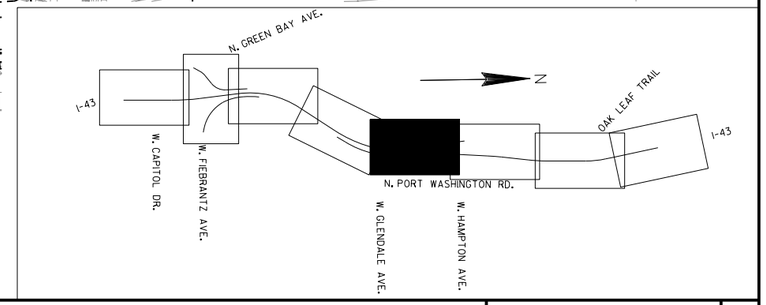
PRE_149

WISDOT/CADDS SHEET 42

2

NEW HL-40-GL	
E,H,K	BLACK
F,J,L	RED
N	WHITE
GND	BARE OR GREEN
A,B,C,D	30A
240/480V 1 PHASE, ISOLATED NEUTRAL	

STA. 968+24.2, 120.4'
HL-40-GL
STA. 968+46.1, 110.9'
LPB-GL-1
STA. 969+00.9, 98.4'
LPB-GL-2
B-10-1020
STA. 969+12.4, 0.0'LT
LPB-GL-3
CAUTION
STA. 970+79.7, 13.9'LT
LED B-5(T)-4-HGL1
STA. 972+89.5, 13.9'LT
LED B-5(T)-4-JGL1
STA. 974+99.5, 15.7'LT
LED B-5(T)-4-HGL2
STA. 977+03.8, 16.5'LT
LED B-5(T)-4-JGL2
STA. 977+21.0, 17.2'LT
LPD-GL-54
B-40-67
STA. 979+11.9, 14.0'LT, SM
LED B-5(T)-4-HGL3
RAMP HAB
MATCHLINE 967+00
IH 43 SB
STA. 969+37.5, 0.0'LT
LED D-A(T)-4-FGL7
STA. 972+01.7, 0.0'LT
LED D-A(T)-4-EGL7
STA. 974+66.0, 0.0'LT
BGL8
STA. 977+00.0, 0.0'LT
LED D-A(T)-4-EGL9
STA.980+06.6, 10.6'LT, SM
LED D-A(T)-4-FGL11
STA. 977+15.6, 0.0'LT
LPB-GL-10
IH 43 NB
STA. 969+37.5, 0.0'LT
LED D-A(T)-4-EGL7
STA. 972+01.7, 0.0'LT
LED D-A(T)-4-FGL7
STA. 974+66.0, 0.0'LT
AGL8
STA. 977+00.0, 0.0'LT
LED D-A(T)-4-FGL9
MATCHLINE 981+00
B-10-1019
R-40-712
R-40-709
RAMP HAA
STA. 974+74.0, 6.8'RT, SM
LED B-5(T)-4-KGL4
STA. 977+31.3, 15.8'RT
LED B-5(T)-4-KGL5/LGL5
STA. 980+07.8, 10.3'RT, SM
LED D-A(T)-4-EGL10
B-10-1021
STA. 971+00.0, 7.9'RT, SM
LED B-5(T)-4-KGL3
STA. 975+67.6, 28.2'RT
LPB-GL-8
STA. 969+00.0, 8.8'RT, SM
LED B-5(T)-4-LGL2
STA. 973+00.0, 5.6'RT, SM
LED B-5(T)-4-LGL3
STA. 975+93.3, 31.2'RT
LED B-5(T)-4-LGL4
W. GLENDALE AVE.
N. PORT WASHINGTON RD.
STA. 976+86.5, 54.5'RT
LPB-GL-9



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023538_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

PRE_150

2

N

STA. 981+19.8, 16.5'LT
LED B-5(T)-4-JGL3

STA. 982+59.6, 4.5'LT, SM
LED D-A(T)-4-EGL11

STA. 984+00.0, 0.0'LT,
LPB-CT-4

STA. 987+87.2, 0.0'LT
LED D-A(T)-4-HCT1

STA. 985+23.1, 0.0'LT
LED D-A(T)-4-JCT2

STA. 988+74.9, 0.0'LT
LPB-CT-3

STA. 990+51.0, 0.0'LT
LED D-A(T)-4-JCT3

STA. 993+17.0, 0.0'LT
LED D-A(T)-4-HCT4

STA. 985+23.1, 0.0'LT
LED D-A(T)-4-HCT2

STA. 982+58.2, 4.5'RT
LED D-A(T)-4-FGL10

STA. 987+87.2, 0.0'LT
LED D-A(T)-4-JCT1

STA. 988+74.9, 86.3'
LPB-CT-2

STA. 990+51.0, 0.0'LT
LED D-A(T)-4-HCT3

STA. 993+17.0, 0.0'LT
LED D-A(T)-4-JCT4

STA. 989+12.1, 138.1'RT
LPB-CT-1

STA. 989+11.6, 148.1'RT
HL-40-CT

GOLF GREEN

GOLF COURSE

IH 43 SB

IH 43 NB

W. HAMPTON AVE.

N. PORT WASHINGTON RD.

MATCHLINE 981+00

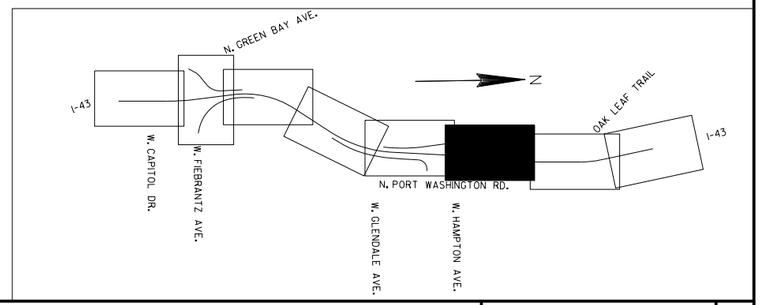
MATCHLINE 995+50

CAUTION

982 983 984 985 986 987 988 989 990 991 992 993 994 995

2'-3"

NEW HL-40-CT	
H	BLACK
J	RED
N	WHITE
GND	BARE OR GREEN
A,B,C,D	30A
240/480V 1 PHASE, ISOLATED NEUTRAL	



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_151

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023540_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.

N

GOLF COURSE

OAK LEAF TRAIL

STA. 995+78.7, 0.0'LT
LED D-A(T)-4-JCT5

STA. 998+43.8, 0.0'LT
LED D-A(T)-4-HCT6

STA. 1001+09.2, 0.0'LT
LED D-A(T)-4-JCT7

STA. 1003+25.0, 64.3'LT
LPB-CT-6

STA. 1003+44.9' 0.0'LT
LED D-A(T)-4-HCT8

STA. 1005+63.0' 65.7'LT
LED D-EXCCT32
NOTE 1

STA. 1007+88.8, 71.6'LT
LED D-EXDCT32
NOTE 1

MATCHLINE 955+50

IH 43 SB

IH 43 NB

996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010

MATCHLINE 1010+00

STA. 995+78.7, 0.0'LT
LED D-A(T)-4-HCT5

STA. 998+43.8, 0.0'LT
LED D-A(T)-4-JCT6

STA. 1003+25.0, 0.0'LT
LPB-CT-5

STA. 1003+44.9' 0.0'LT
LED D-A(T)-4-JCT8

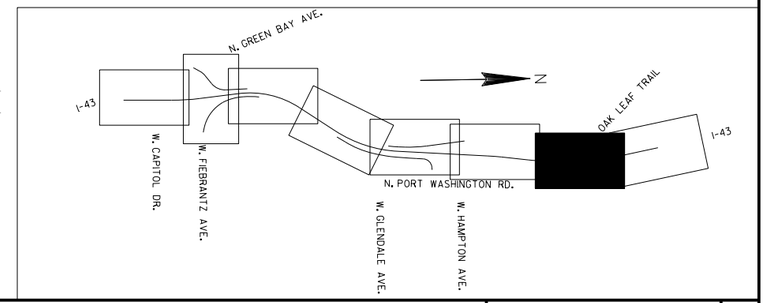
STA. 1008+40.6, 62.1'RT
LED D-EXCCT22
NOTE 1

N. PORT WASHINGTON RD.

STA. 998+43.8, 0.0'LT
LED D-A(T)-4-HCT7

STA. 1003+25.0, 64.0'RT
LPB-CT-7

STA. 1005+76.9, 60.5'RT
LED D-EXDCT21
NOTE 1



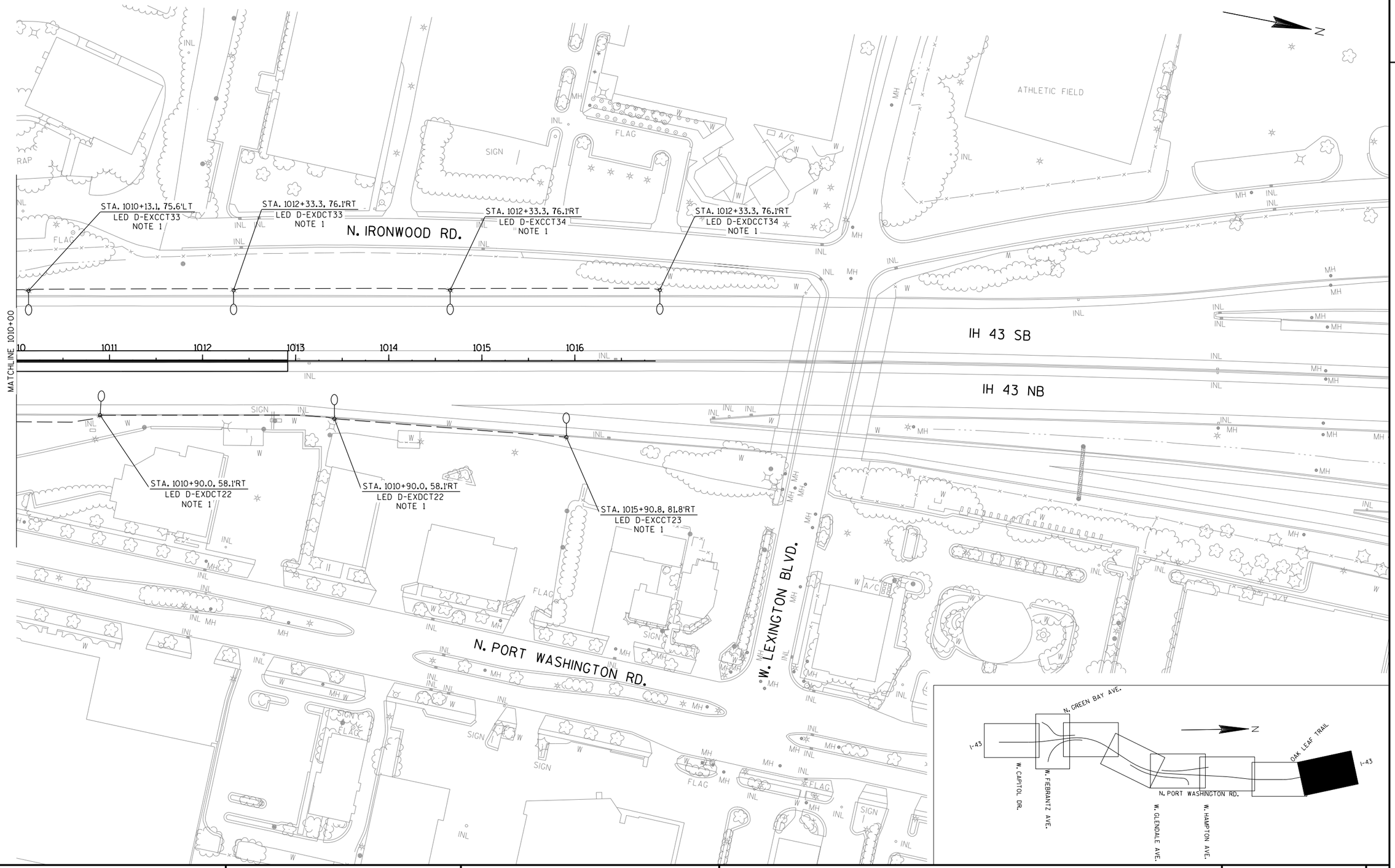
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_152

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023542_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

NOTE:
1. REPLACE LUMINAIRE ON EXISTING POLE.

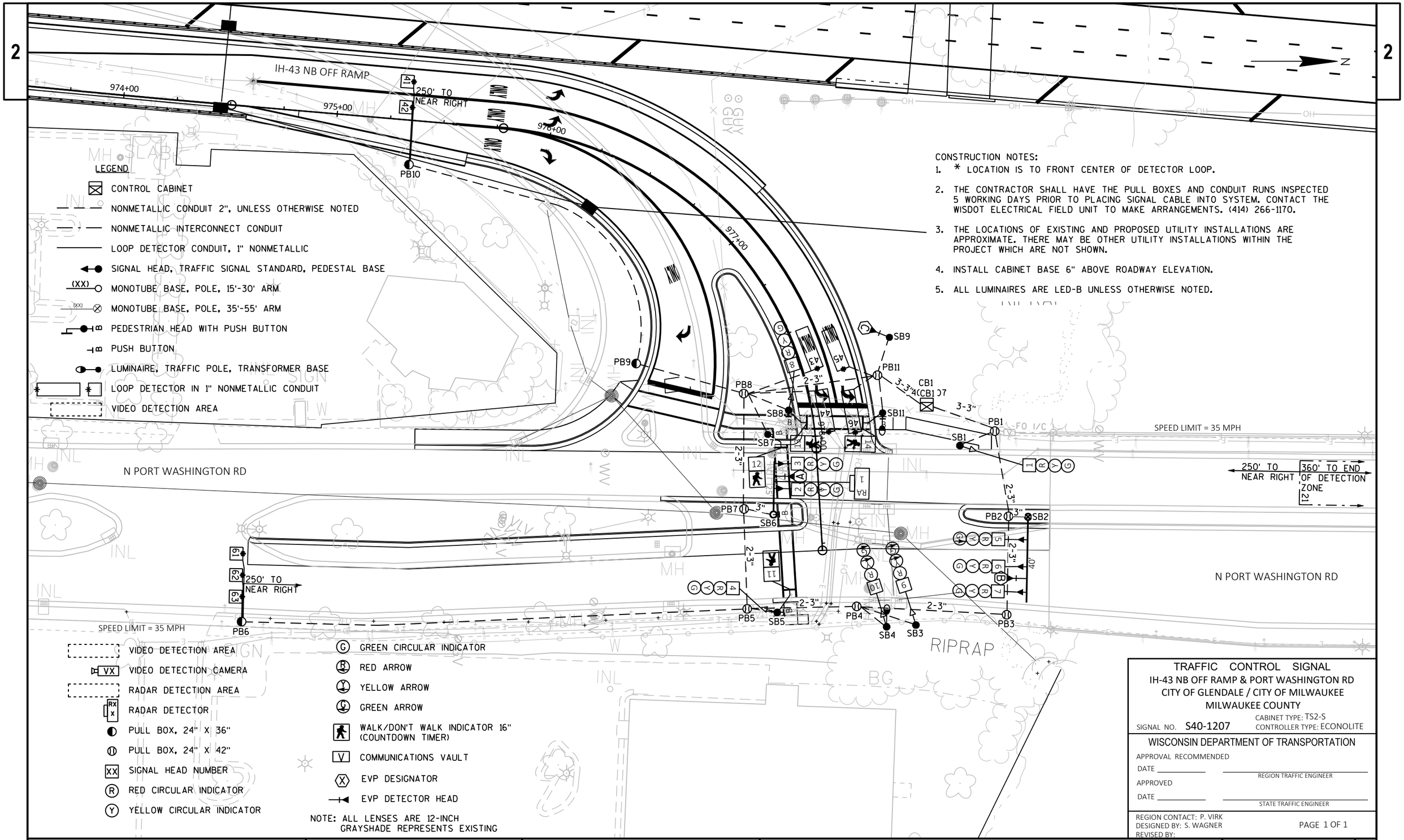


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	LIGHTING PLANS - FINAL	SHEET E

PRE_153

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\DGN\12282271_North\Plansheets\023544_LP.dgn PLOT DATE : 2/27/2020 PLOT BY : kchai PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- RADAR DETECTION AREA
- RX RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (V) COMMUNICATIONS VAULT
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-B UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL SIGNAL
IH-43 NB OFF RAMP & PORT WASHINGTON RD
CITY OF GLENDALE / CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1207
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

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

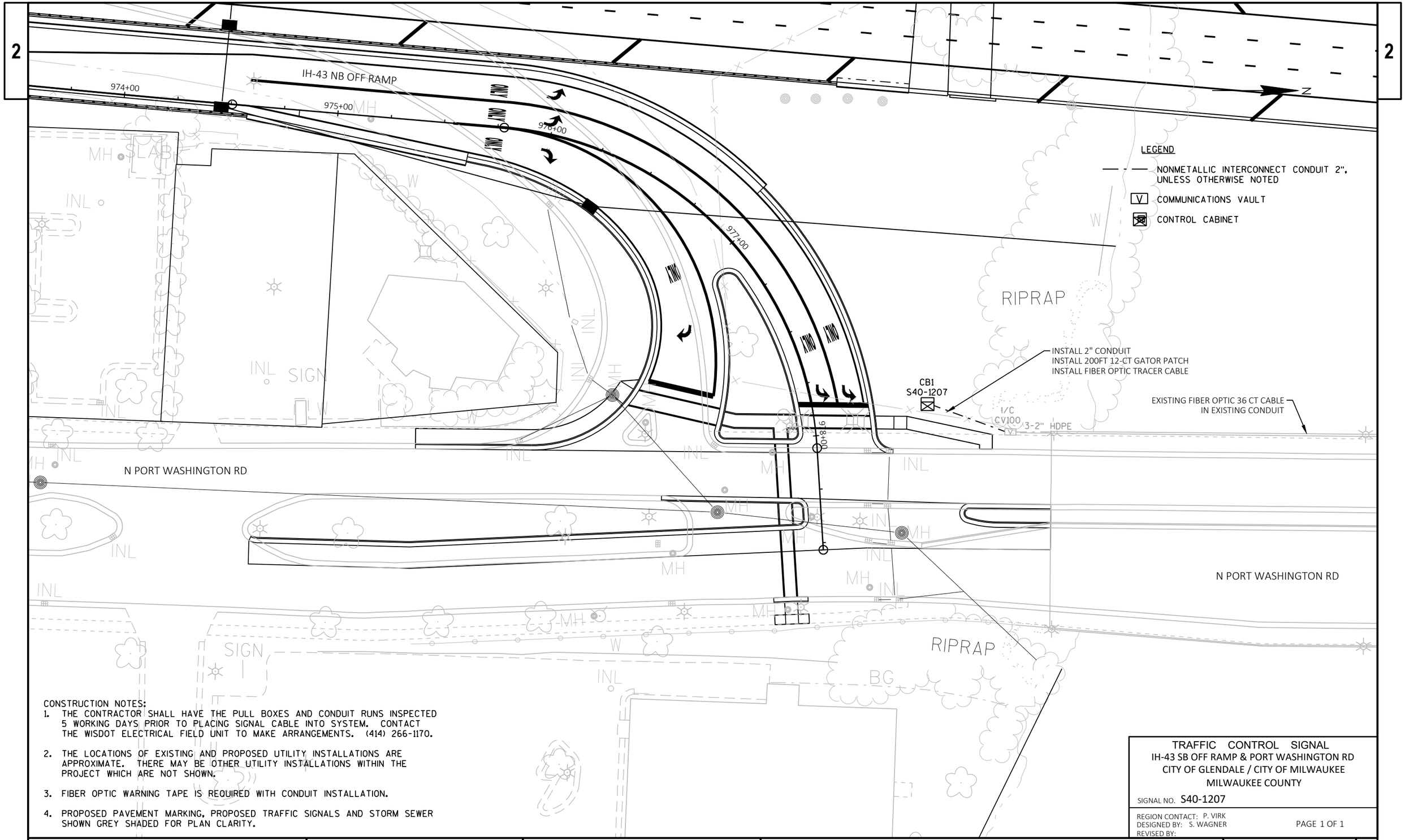
REGION CONTACT: P. VIRK
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 1228-22-71	HWY: IH-43	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

PRE_154

FILE NAME : N:\PDS\C3D\CAD\12282201\SIG\S40-1207\S40-1207_18.DWG
LAYOUT NAME - S40_1207_PG1
PLOT DATE : 11/14/2019 3:44 PM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

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

TRAFFIC CONTROL SIGNAL
IH-43 SB OFF RAMP & PORT WASHINGTON RD
CITY OF GLENDALE / CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1207

REGION CONTACT: P. VIRK
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1228-22-71	HWY: IH043	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET E

PRE_155

FILE NAME : N:\PDS\C3D\CAD\12282201\SIG\INTERCONNECT\S40-1207_18_IC.DWG
LAYOUT NAME - S40_1207_IC_PG1

PLOT DATE : 1/27/2020 8:50 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

GENERAL NOTES FOR TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. FLAGGING IS NOT PERMITTED ON FREEWAY LANES.

3) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

4) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

5) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

6) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

7) DIMENSIONS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF BARRIER ADJACENT TO TRAFFIC. STATION CALL-OUTS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF BARRIER.

8) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.

9) ALL TRAFFIC CONTROL SIGNS LOCATED IN MEDIANS SHALL BE MOUNTED ON CONCRETE BARRIER UNLESS OTHERWISE NOTED, SEE TRAFFIC CONTROL DETAILS.

10) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT.

11) TRAFFIC CONTROL DRUM SPACING SHALL BE 50' UNLESS OTHERWISE NOTED.

12) 16" X 16" ORANGE FLAGS SHALL BE INCIDENTAL TO TRAFFIC CONTROL SIGN BID ITEM.

13) ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
2. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
5. TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. TEMPORARY MARKING ARROW REMOVABLE TAPE (WHITE) (TYPE 1)
7. TEMPORARY MARKING ARROW REMOVABLE TAPE (WHITE) (TYPE 2)
8. TEMPORARY MARKING WORD REMOVABLE TAPE (WHITE)
9. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
10. TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH (12.5 FT LINE 37.5 FT SKIP)
11. TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH
12. TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH (3 FT LINE 9 FT SKIP)

PAVEMENT MARKING REMOVAL LEGEND

- WB1 MARKING REMOVAL LINE WATER BLASTING 4-INCH
- WB2 MARKING REMOVAL LINE WATER BLASTING 8-INCH
- WB3 MARKING REMOVAL LINE WATER BLASTING WIDE
- WB4 MARKING REMOVAL SPECIAL MARKING WATER BLASTING
- RM1 MARKING REMOVAL SPECIAL MARKING

PAVEMENT MARKING, PAVEMENT MARKING REMOVAL AND TRAFFIC CONTROL LEGEND TO BE FINALIZED POST 60%

TRAFFIC CONTROL LEGEND

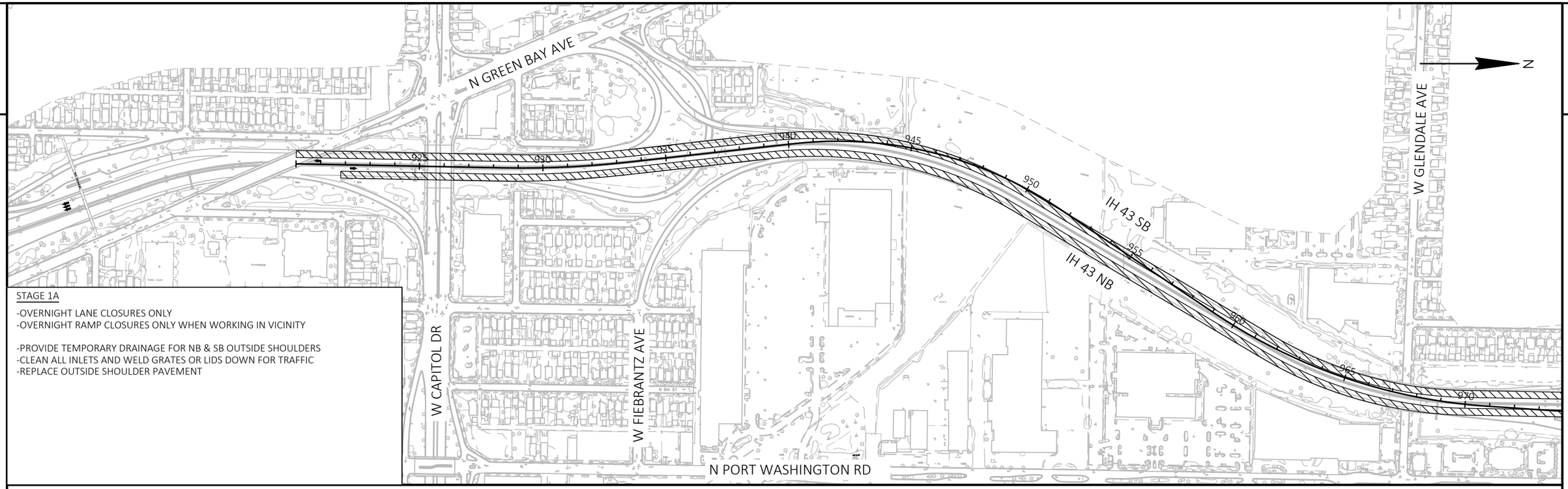
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO (2) WARNING LIGHTS TYPE "A"
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO (2) WARNING LIGHTS TYPE "A" AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TYPE A WARNING LIGHT (FLASHING)
- TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- TEMPORARY FLASHING BEACON (PAID AS PART OF "DYNAMIC LATE MERGE SYSTEM (DLMS)"
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC CRASH CUSHION
- FLAGS, 16" X 16" MIN., (ORANGE)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - NOTES AND LEGEND	SHEET PRE_156 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\025000-TC.DWG
LAYOUT NAME - 025000-tc

PLOT DATE : 10/15/2019 6:30 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:100 FT

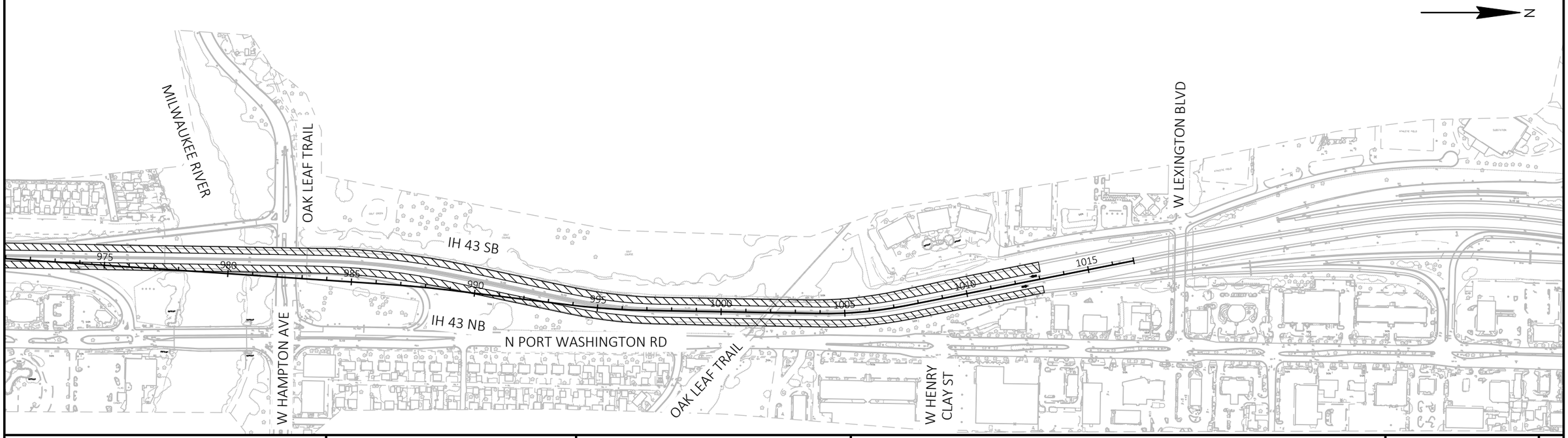
2



STAGE 1A

-OVERNIGHT LANE CLOSURES ONLY
-OVERNIGHT RAMP CLOSURES ONLY WHEN WORKING IN VICINITY

-PROVIDE TEMPORARY DRAINAGE FOR NB & SB OUTSIDE SHOULDERS
-CLEAN ALL INLETS AND WELD GRATES OR LIDS DOWN FOR TRAFFIC
-REPLACE OUTSIDE SHOULDER PAVEMENT



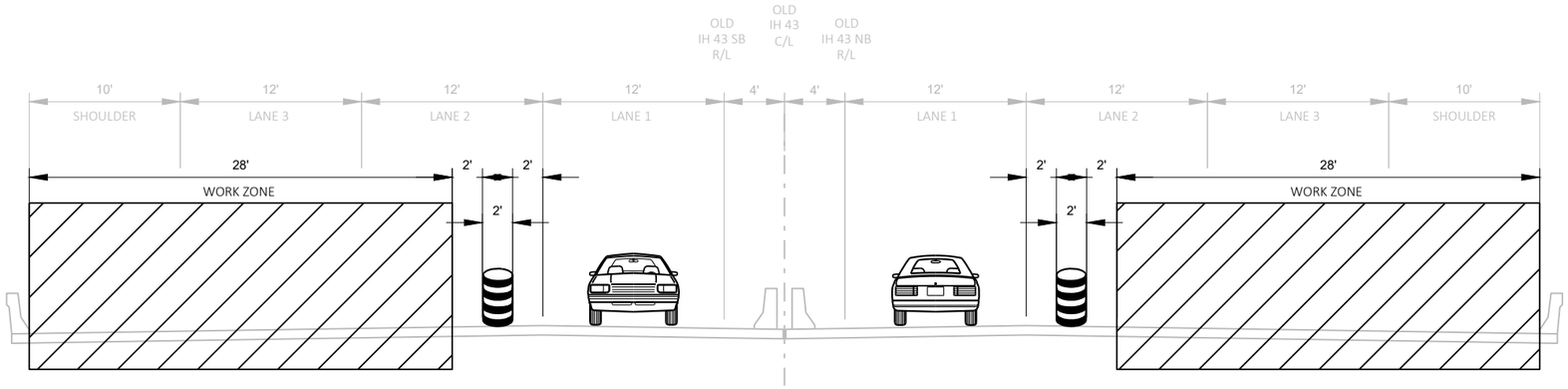
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 1A	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1A-1OV.DWG
LAYOUT NAME - 026001-1a-ov

PLOT DATE : 8/1/2019 11:06 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_157

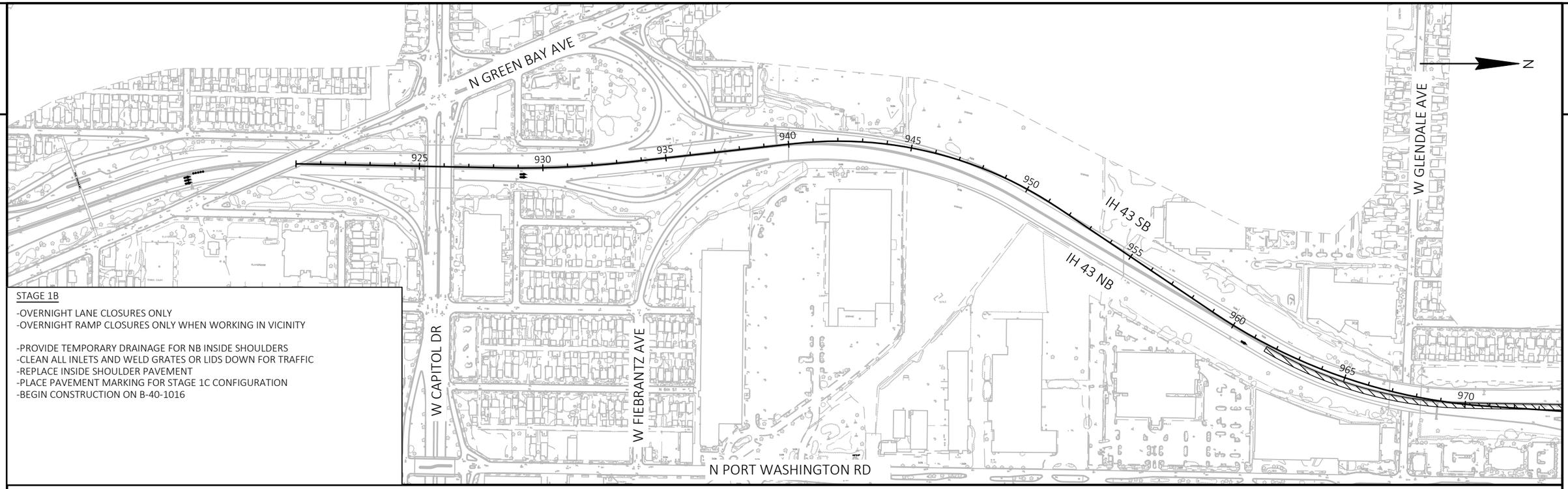
WISDOT/CADDS SHEET 44



TYPICAL SECTION - STAGE 1A

CAPITOL DR TO OAK LEAF TRAIL STRUCTURE
(NIGHT TIME LANE CLOSURES ONLY)

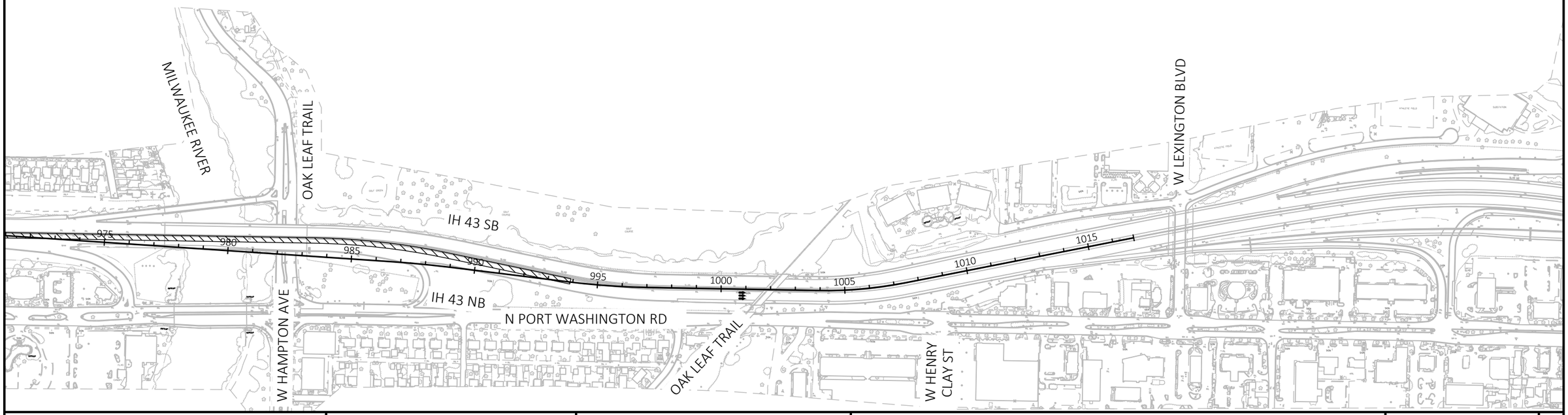
2



STAGE 1B

-OVERNIGHT LANE CLOSURES ONLY
-OVERNIGHT RAMP CLOSURES ONLY WHEN WORKING IN VICINITY

-PROVIDE TEMPORARY DRAINAGE FOR NB INSIDE SHOULDERS
-CLEAN ALL INLETS AND WELD GRATES OR LIDS DOWN FOR TRAFFIC
-REPLACE INSIDE SHOULDER PAVEMENT
-PLACE PAVEMENT MARKING FOR STAGE 1C CONFIGURATION
-BEGIN CONSTRUCTION ON B-40-1016



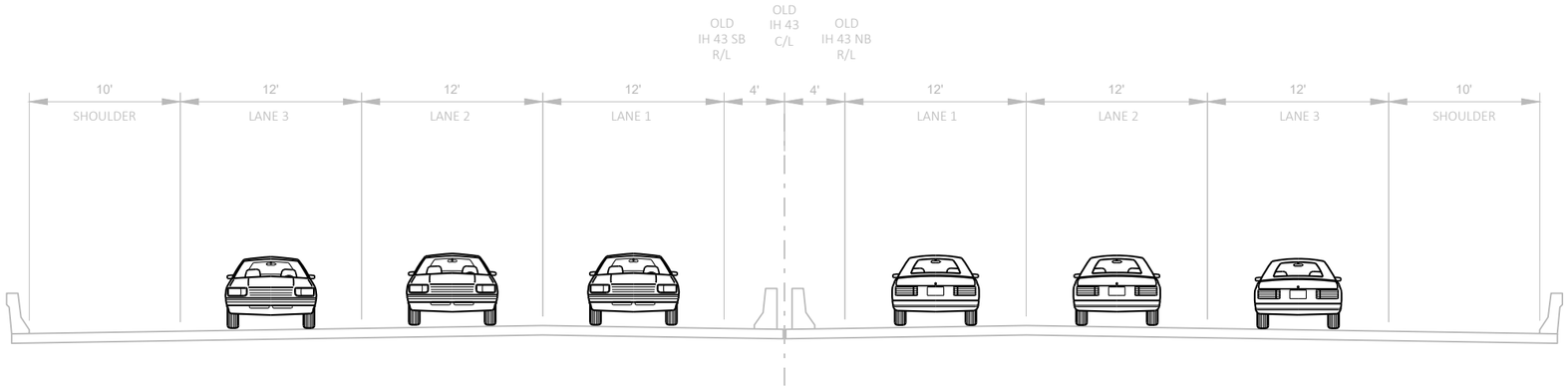
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 1B	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1B-1OV.DWG
LAYOUT NAME - 026001-1b-ov

PLOT DATE : 8/1/2019 11:11 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

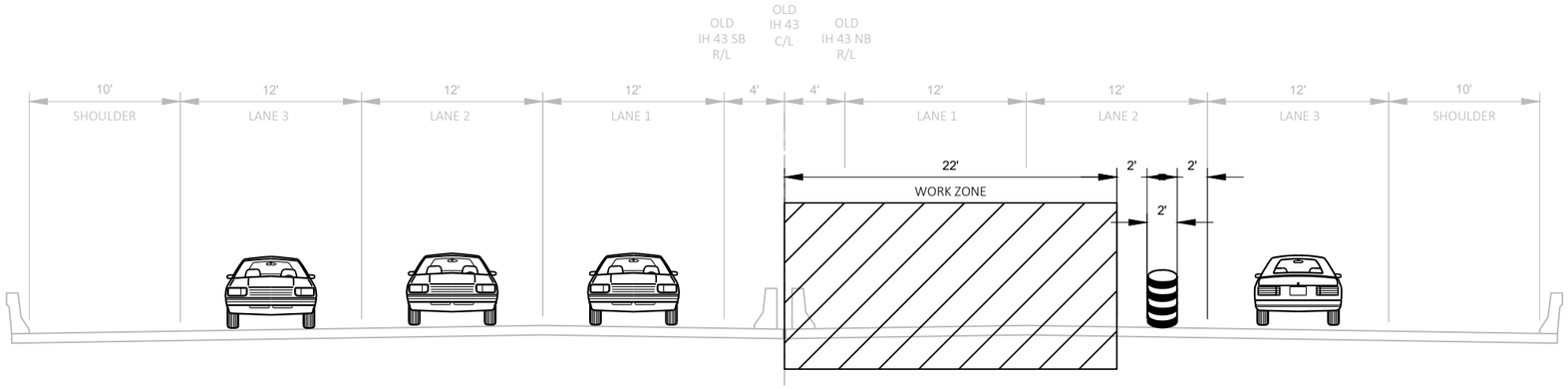
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 1B

CAPITOL DR TO GLENDALE AVE
(NO LANE CLOSURES)



TYPICAL SECTION - STAGE 1B

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NIGHT TIME LANE CLOSURES ONLY)

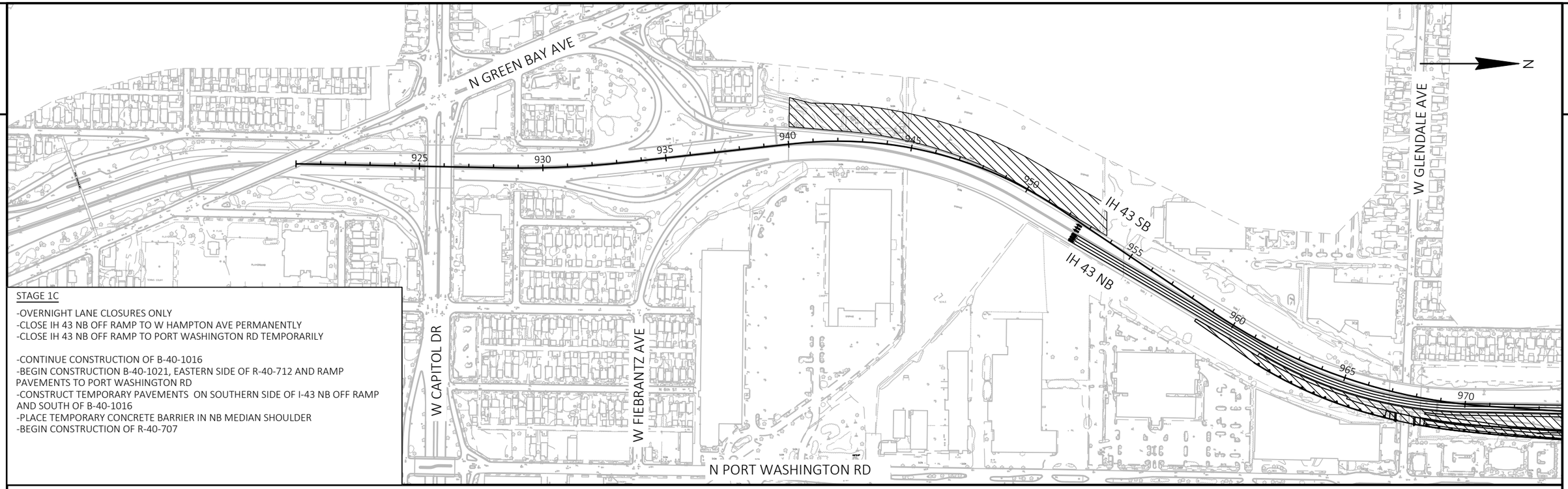
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 1B	SHEET E

PRE_160

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1B-2TS.DWG
LAYOUT NAME - 026001-1b-ts

PLOT DATE : 7/31/2019 5:37 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

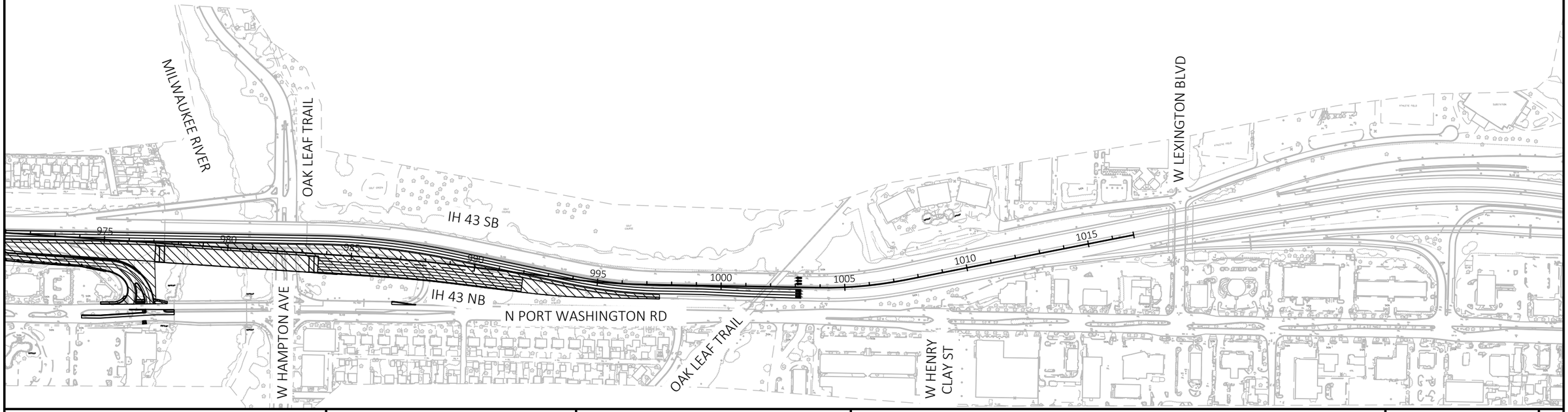
2



STAGE 1C

-OVERNIGHT LANE CLOSURES ONLY
-CLOSE IH 43 NB OFF RAMP TO W HAMPTON AVE PERMANENTLY
-CLOSE IH 43 NB OFF RAMP TO PORT WASHINGTON RD TEMPORARILY

-CONTINUE CONSTRUCTION OF B-40-1016
-BEGIN CONSTRUCTION B-40-1021, EASTERN SIDE OF R-40-712 AND RAMP PAVEMENTS TO PORT WASHINGTON RD
-CONSTRUCT TEMPORARY PAVEMENTS ON SOUTHERN SIDE OF I-43 NB OFF RAMP AND SOUTH OF B-40-1016
-PLACE TEMPORARY CONCRETE BARRIER IN NB MEDIAN SHOULDER
-BEGIN CONSTRUCTION OF R-40-707



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 1C	SHEET E

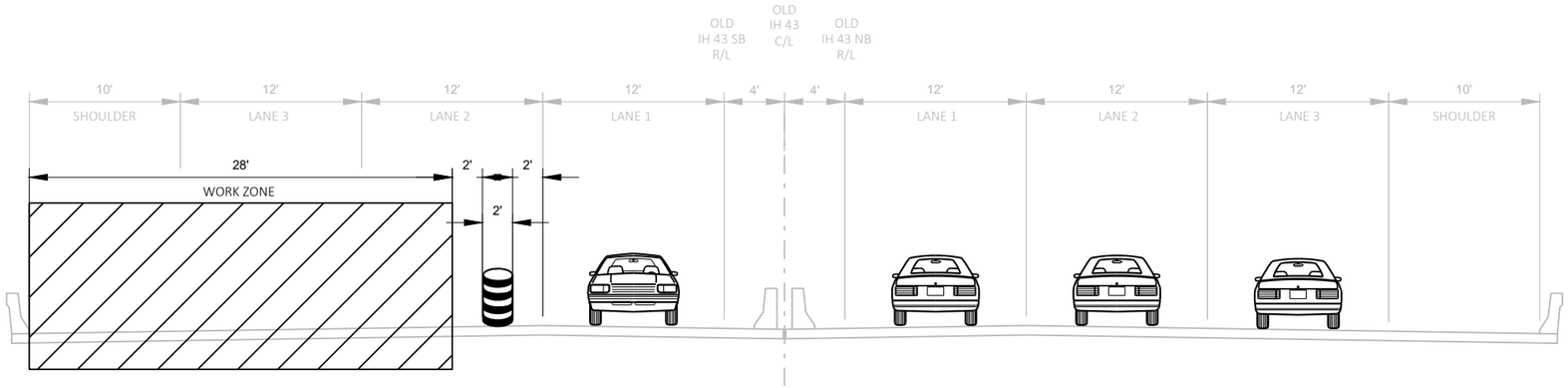
PRE_161

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-1OV.DWG
LAYOUT NAME - 026001-1c-ov

PLOT DATE : 8/1/2019 11:27 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

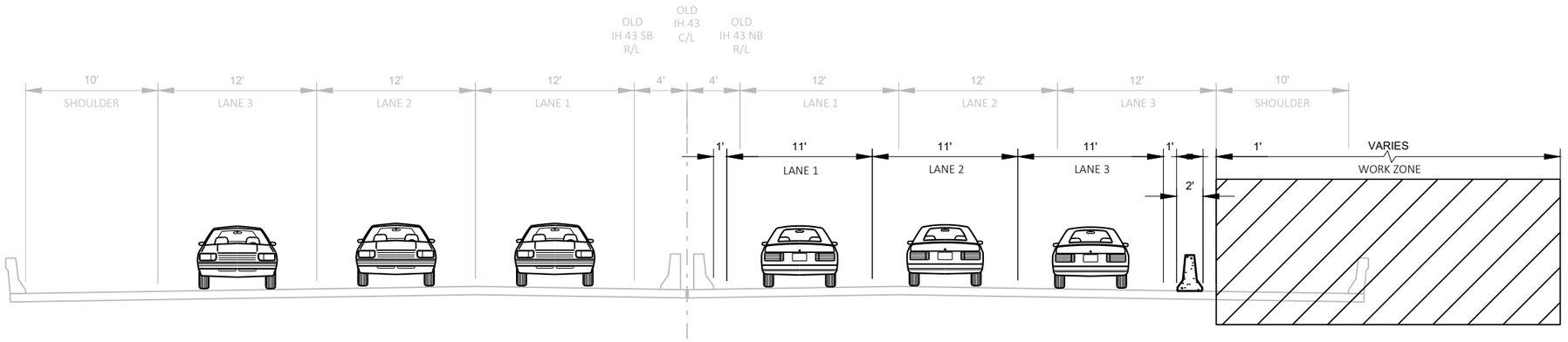
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 1C

CAPITOL DR TO GLENDALE AVE
(NIGHT TIME SB LANE CLOSURES ONLY IF NEEDED)



TYPICAL SECTION - STAGE 1C

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 1C	SHEET E

PRE_162

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-2TS.DWG
LAYOUT NAME - 026001-1c-ts

PLOT DATE : 7/31/2019 5:37 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

GREEN BAY AVE

928"IH 43"

930"IH 43"

932"IH 43"

934"IH 43"

936"IH 43"

938"IH 43"

940"IH 43"

942"IH 43"

IH 43 SB

IH 43 NB

N

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET E

PRE_163

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026002-1c-st

PLOT DATE : 8/1/2019 11:29 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

944"IH 43"
942"IH 43"
946"IH 43"
948"IH 43"
950"IH 43"
952"IH 43"
954"IH 43"
956"IH 43"

IH 43 SB
IH 43 NB

200' TAPER
REDUCE LANE WIDTH

200' SHIFTING TAPER
(1' SHIFT)

STORAGE
SIGN
MH
W
INL
CANOPY
A/C

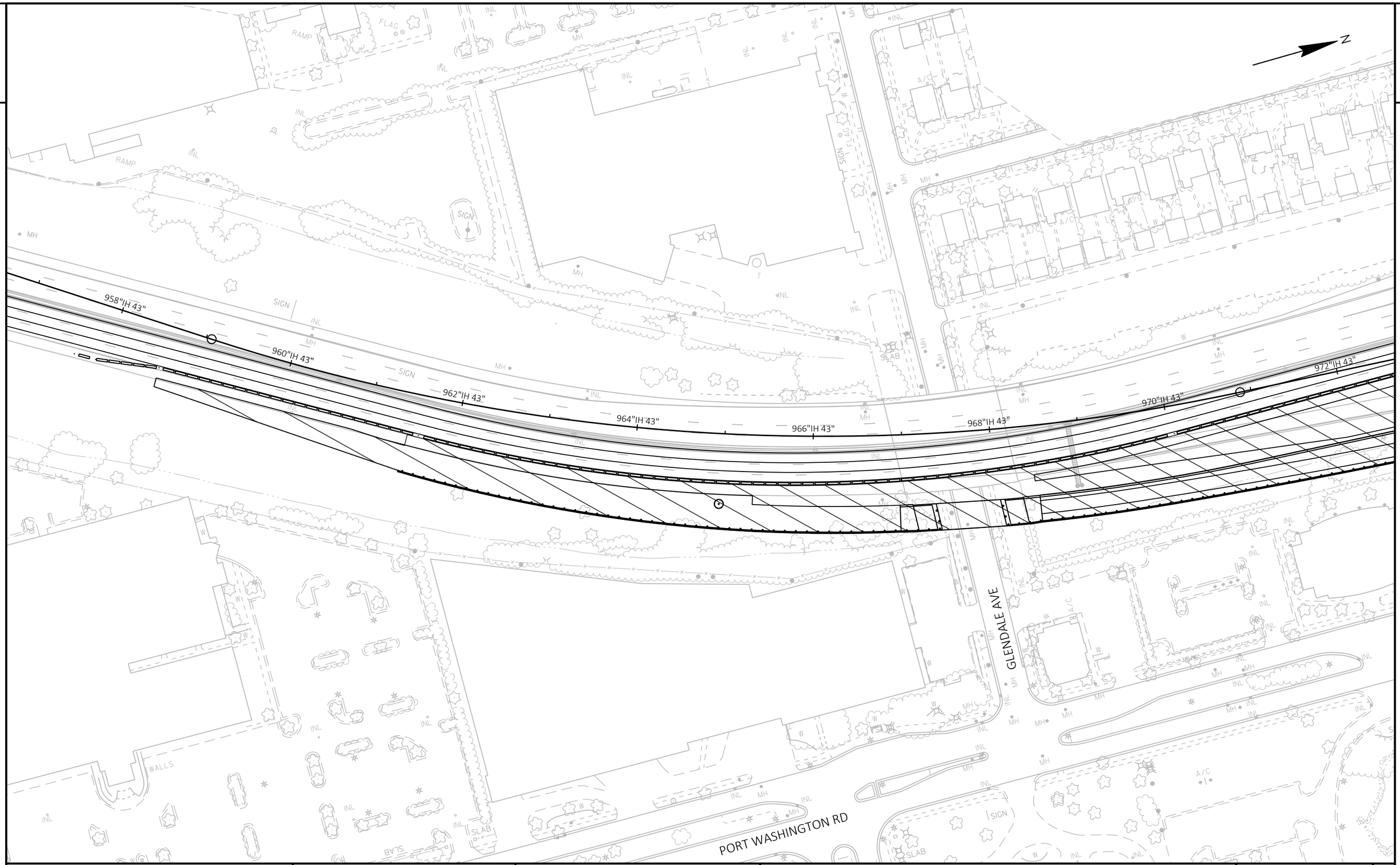
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET PRE_164 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026003-1c-st

PLOT DATE : 8/1/2019 11:29 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026004-1c-st

PLOT DATE : 8/1/2019 11:29 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

RIPRAP

SLAB

SIGN

INL

MH

W

A/C

BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET E

PRE_166

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026005-1c-st

PLOT DATE : 8/1/2019 11:30 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

988"IH 43"
990"IH 43"
992"IH 43"
994"IH 43"
996"IH 43"
998"IH 43"
1000"IH 43"
1002"IH 43"

IH 43 SB
IH 43 NB

200' SHIFTING TAPER
(5' SHIFT)

200' TAPER
INCREASE LANE WIDTH

PORT WASHINGTON RD

GOLF COURSE
GOLF COURSE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET E

PRE_167

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026006-1c-st

PLOT DATE : 8/1/2019 11:30 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

200' TAPER
INCREASE LANE WIDTH

IH 43 SB

IH 43 NB

PORT WASHINGTON RD

RIPRAP

RIPRAP

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C	SHEET E

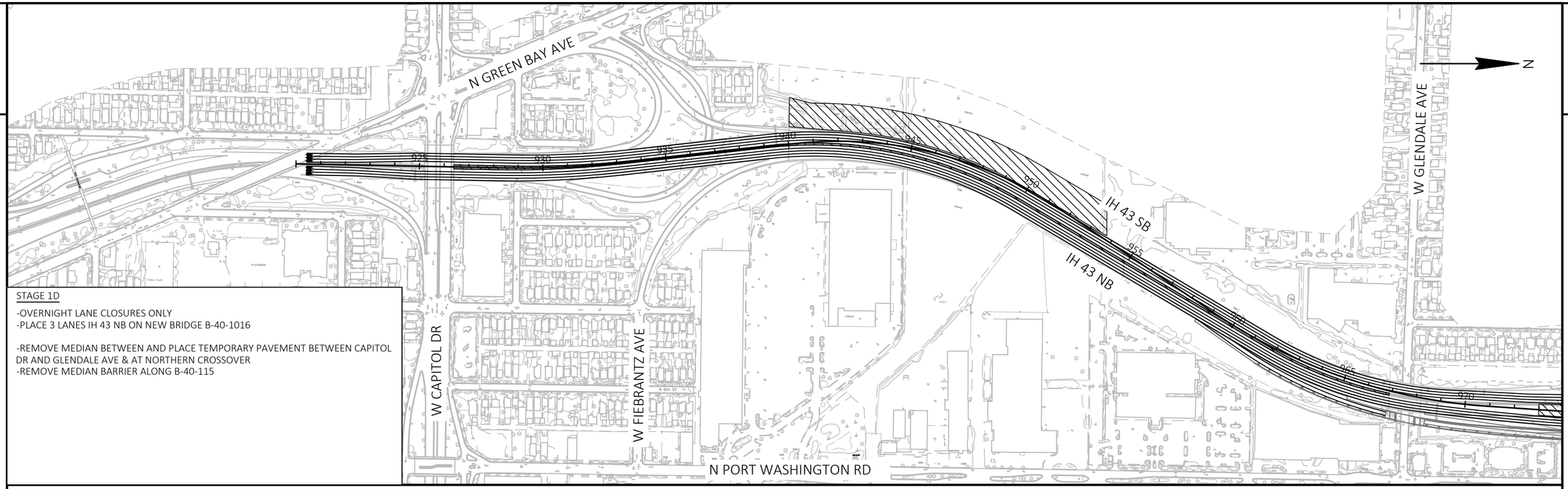
PRE_168

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1C-3ST.DWG
LAYOUT NAME - 026007-1c-st

PLOT DATE : 8/1/2019 11:30 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

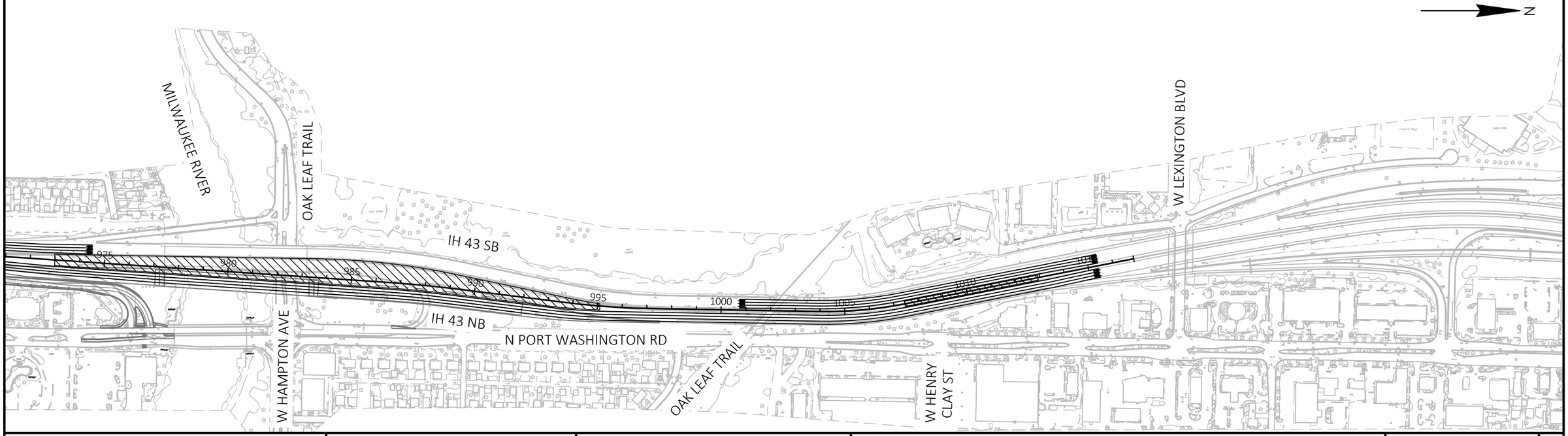
2



STAGE 1D

-OVERNIGHT LANE CLOSURES ONLY
-PLACE 3 LANES IH 43 NB ON NEW BRIDGE B-40-1016

-REMOVE MEDIAN BETWEEN AND PLACE TEMPORARY PAVEMENT BETWEEN CAPITOL DR AND GLENDALE AVE & AT NORTHERN CROSSOVER
-REMOVE MEDIAN BARRIER ALONG B-40-115



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 1D	SHEET E

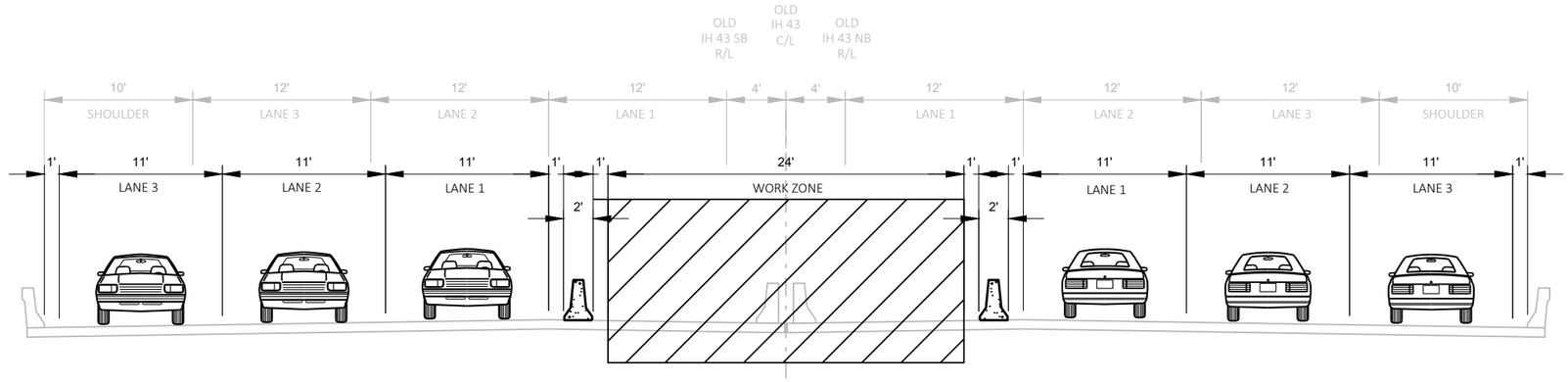
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-1OV.DWG
LAYOUT NAME - 026001-1d-ov

PLOT DATE : 8/1/2019 11:37 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_169

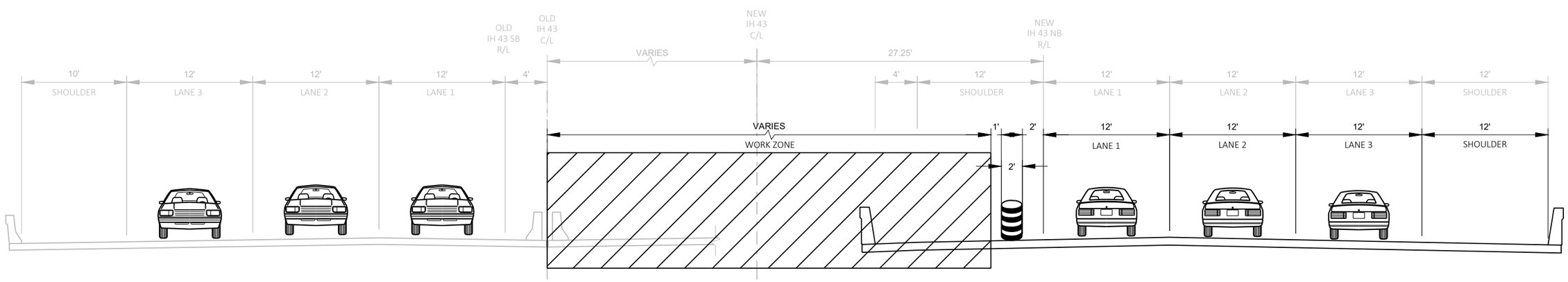
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 1D

CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 1D

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

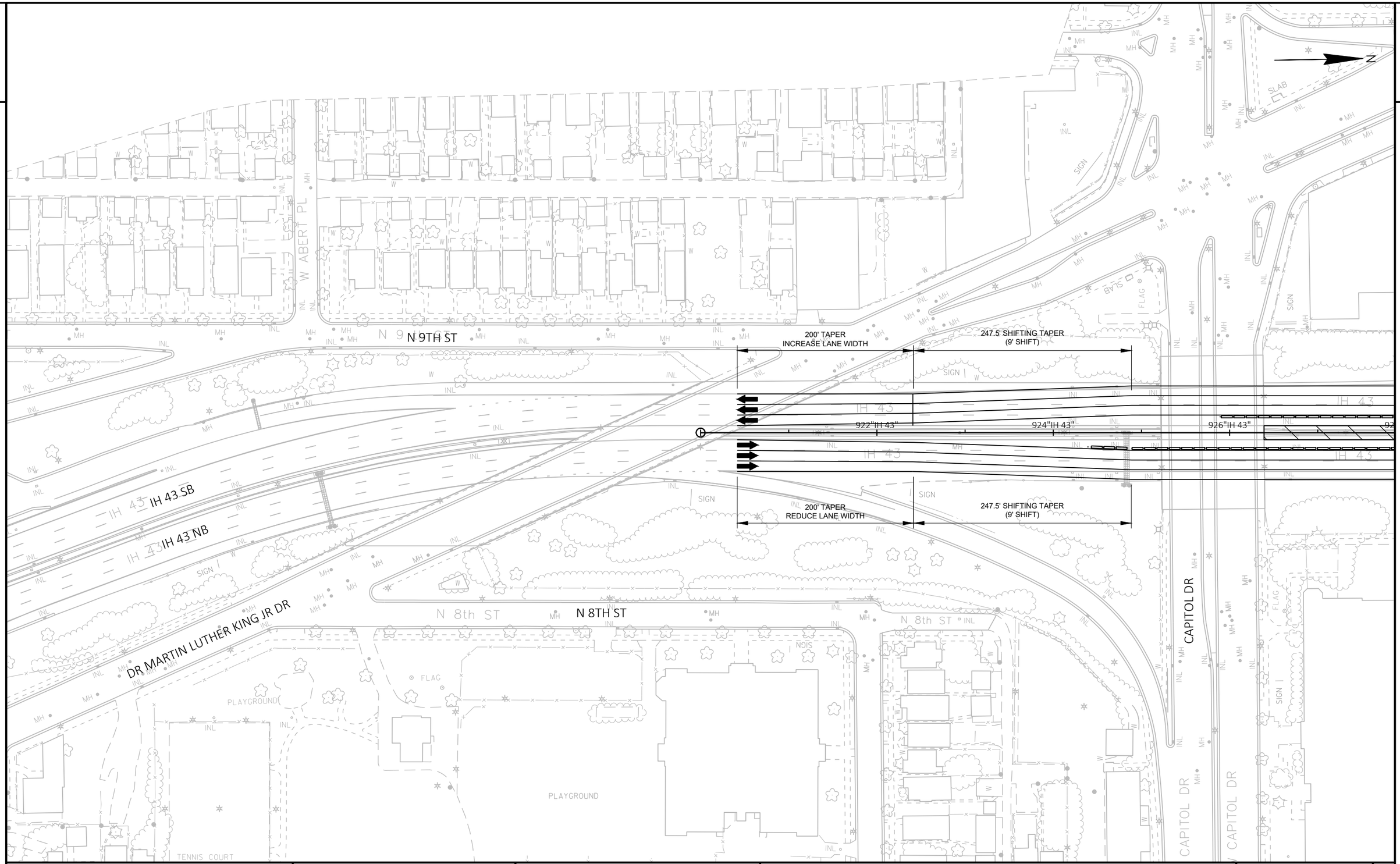
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 1D	SHEET PRE_170 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-2TS.DWG
LAYOUT NAME - 026001-1d-ts

PLOT DATE : 7/31/2019 5:38 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

PRE_171

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026001-1d-st

PLOT DATE : 8/1/2019 11:39 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

GREEN BAY AVE

W MESSMER ST

N 10th AVE

W HOPE AVE

N 8th ST

IH 43 SB

IH 43 NB

928"IH 43"

930"IH 43"

932"IH 43"

934"IH 43"

936"IH 43"

938"IH 43"

940"IH 43"

942"IH 43"

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

PRE_172

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026002-1d-st

PLOT DATE : 8/1/2019 11:39 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

IH 43 SB

IH 43 NB

944"IH 43"

946"IH 43"

948"IH 43"

950"IH 43"

952"IH 43"

954"IH 43"

956"IH 43"

STORAGE

SIGN

CANOPY

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

PRE_173

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026003-1d-st

PLOT DATE : 8/1/2019 11:39 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

958"IH 43"

960"IH 43"

962"IH 43"

964"IH 43"

966"IH 43"

968"IH 43"

970"IH 43"

972"IH 43"

IH 43

R10716'

N IRONWOOD LN

GLENDALE AVE

N PORT WASHINGTON RD

PORT WASHINGTON RD

RAMP

FLAG

SIGN

SLAB

WALLS

MH

INL

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

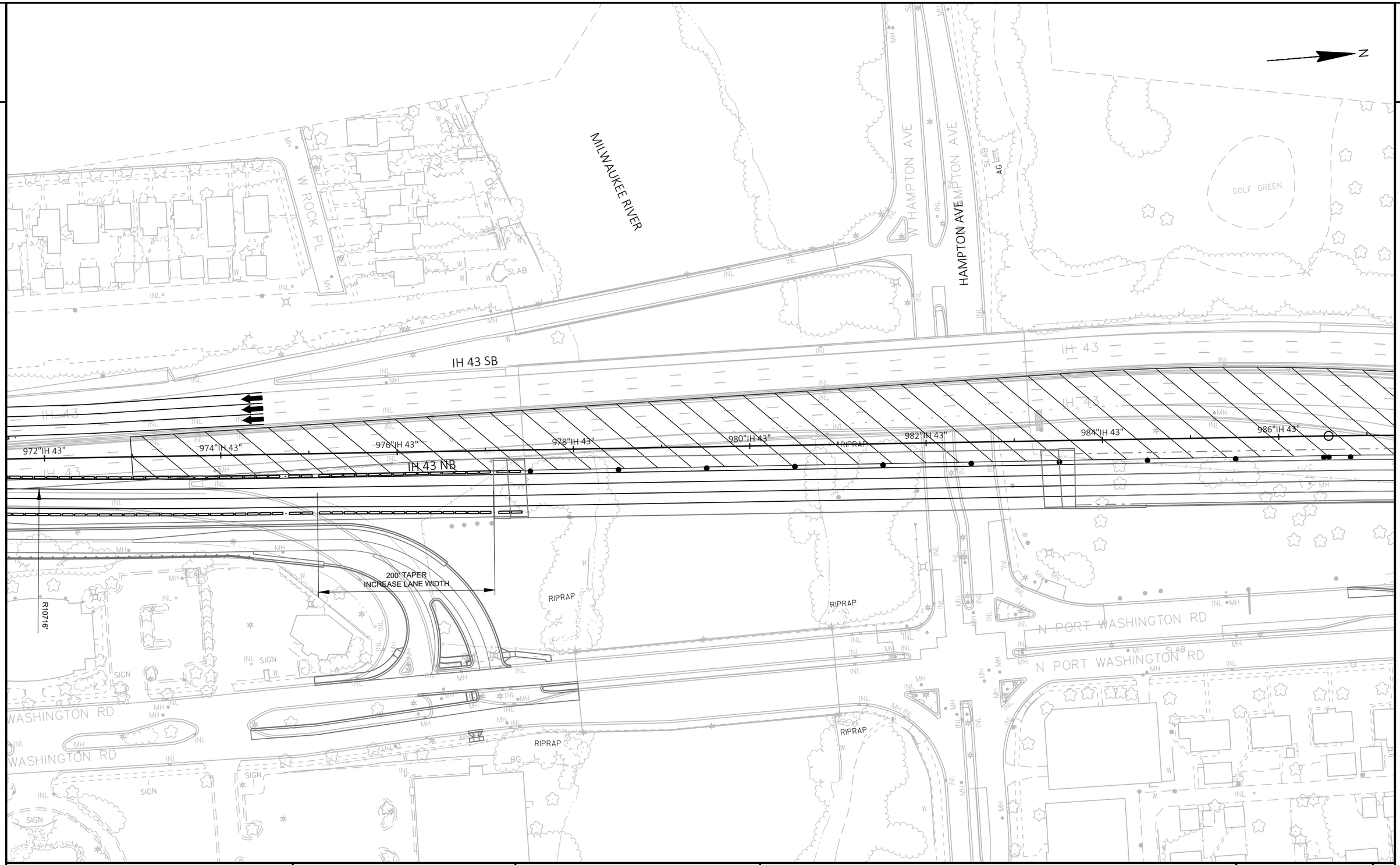
PRE_174

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026004-1d-st

PLOT DATE : 8/1/2019 11:40 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

PRE_175

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026005-1d-st

PLOT DATE : 8/1/2019 11:40 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

IH 43 SB

IH 43 NB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

200' TAPER
INCREASE LANE WIDTH

R2400'

PORT WASHINGTON RD

N PORT WASHINGTON RD

W CHATEAU DR

W MARNE DR

GOLF COURSE

GOLF COURSE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

PRE_176

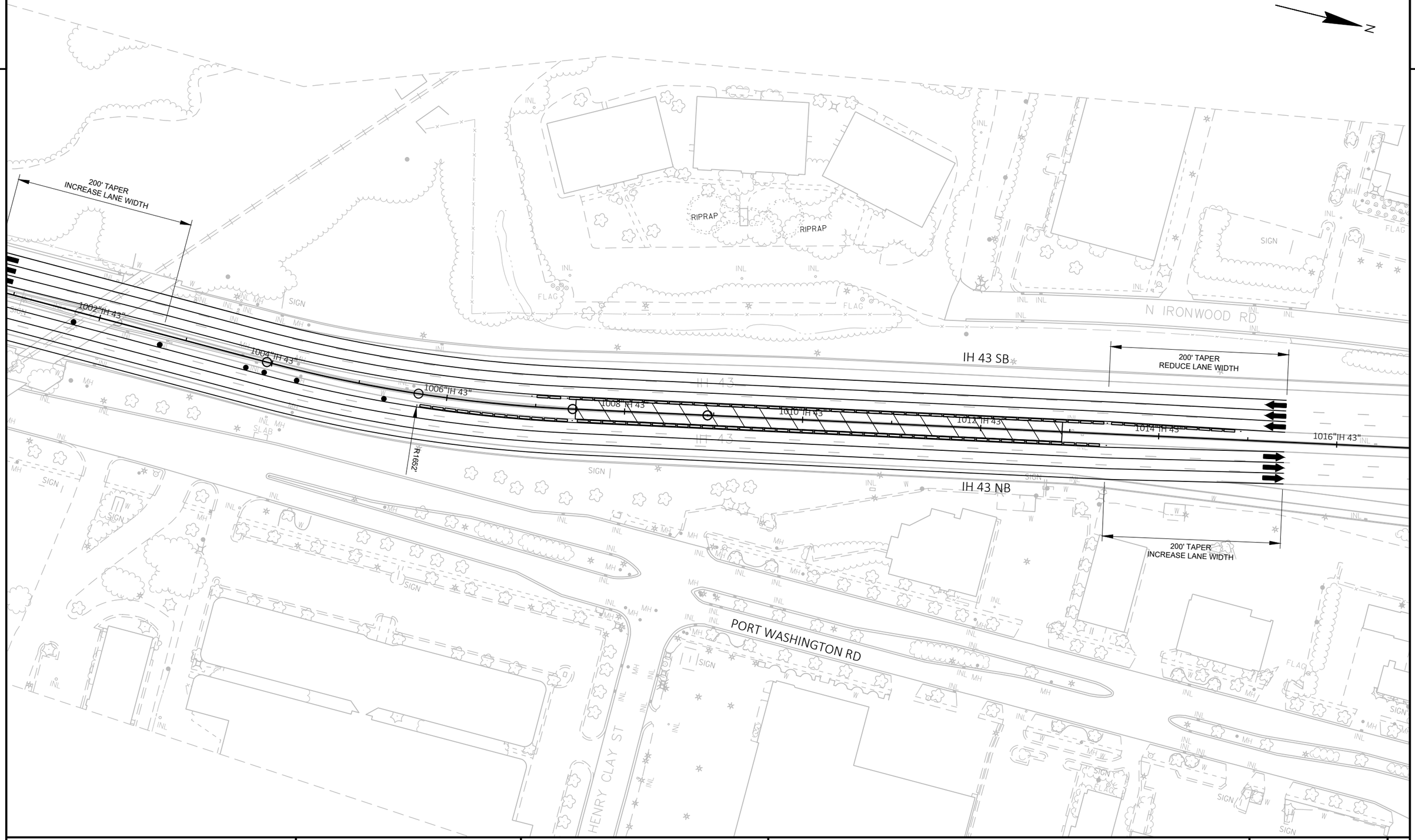
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026006-1d-st

PLOT DATE : 8/1/2019 11:40 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1D	SHEET E

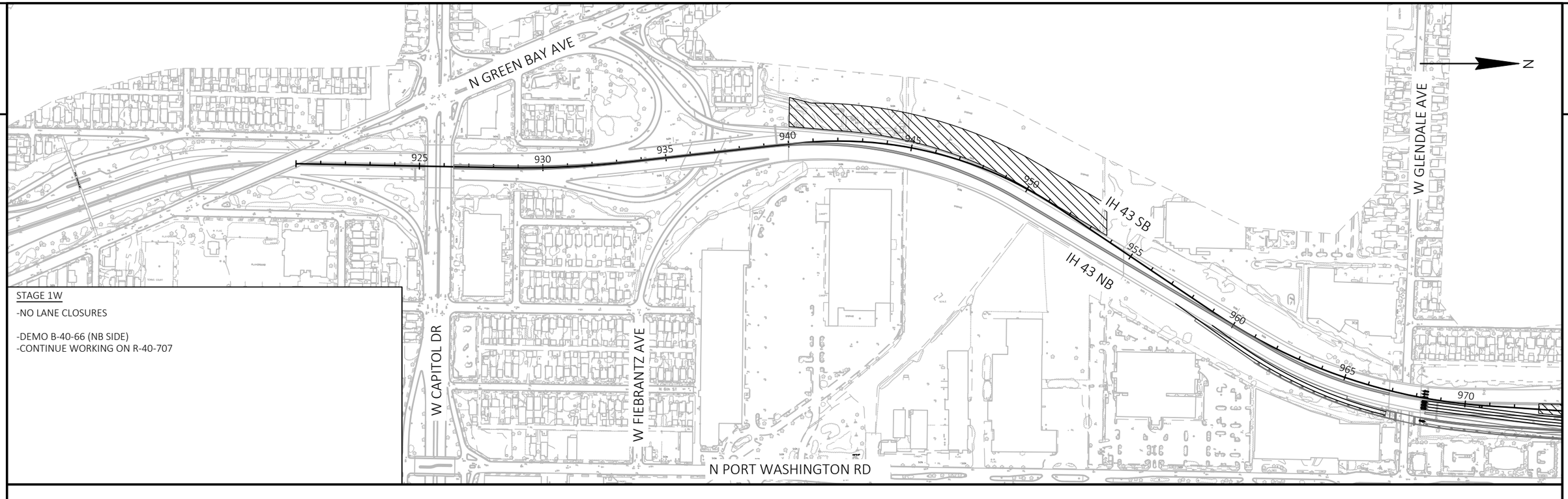
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1D-3ST.DWG
LAYOUT NAME - 026007-1d-st

PLOT DATE : 8/1/2019 11:40 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_177

WISDOT/CADDS SHEET 42

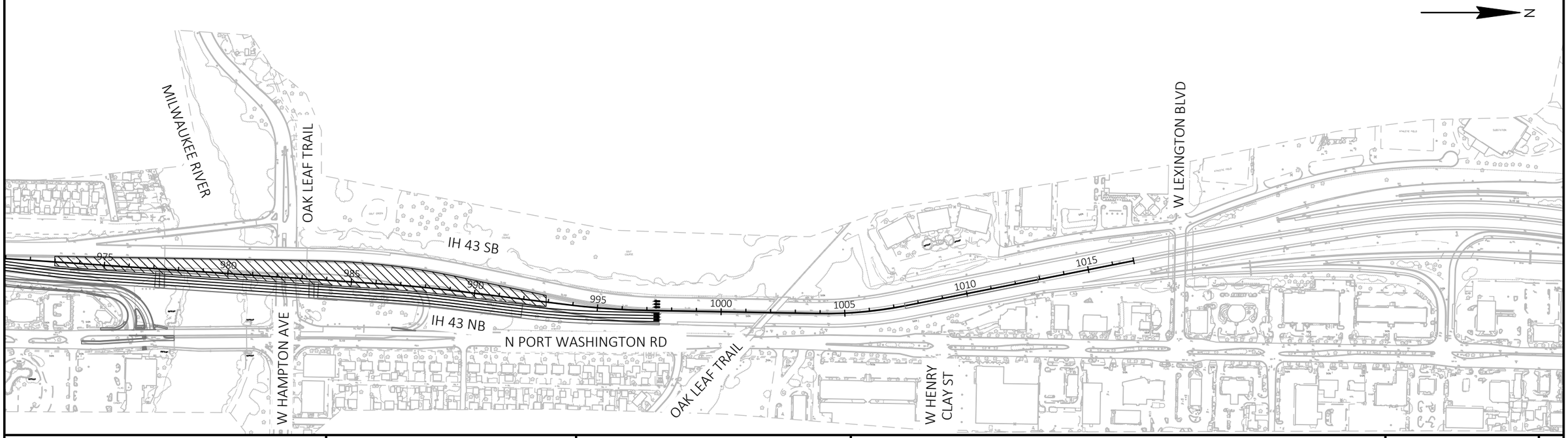
2



STAGE 1W

-NO LANE CLOSURES

-DEMO B-40-66 (NB SIDE)
-CONTINUE WORKING ON R-40-707



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 1W	SHEET E

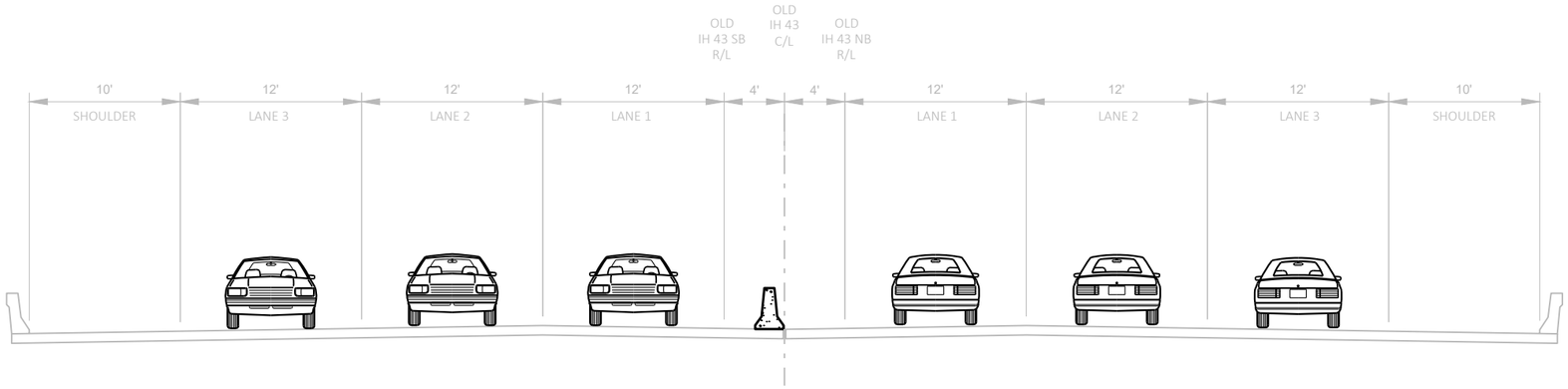
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-1OV.DWG
LAYOUT NAME - 026001-1w-ov

PLOT DATE : 8/1/2019 11:44 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_178

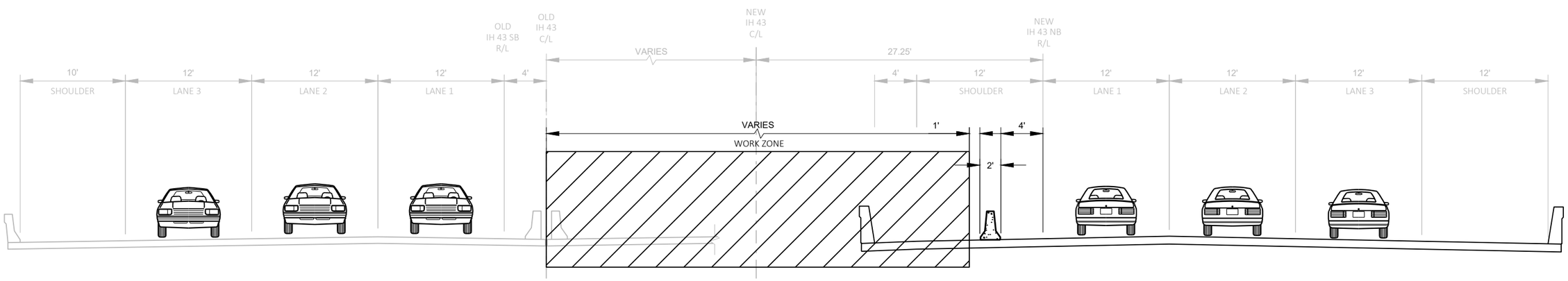
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - WINTER SHUTDOWN 1

CAPITOL DR TO GLENDALE AVE
(BETWEEN STAGE 1 & 2)



TYPICAL SECTION - WINTER SHUTDOWN 1

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(BETWEEN STAGE 1 & 2)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 1W	SHEET E

PRE_179

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-2TS.DWG
LAYOUT NAME - 026001-1w-ts

PLOT DATE : 7/31/2019 5:38 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

N

944"IH 43"
946"IH 43"
948"IH 43"
950"IH 43"
952"IH 43"
954"IH 43"
956"IH 43"
942"IH 43"

IH 43 SB
IH 43 NB

IH 43
IH 43

STORAGE
STORAGE
STORAGE
SIGN
SIGN
SIGN
SIGN
SIGN
SIGN
SIGN
MH
MH
MH
MH
MH
MH
INL
INL
INL
INL
INL
INL
W
W
W
W
CANOPY

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1W	SHEET PRE_180 E

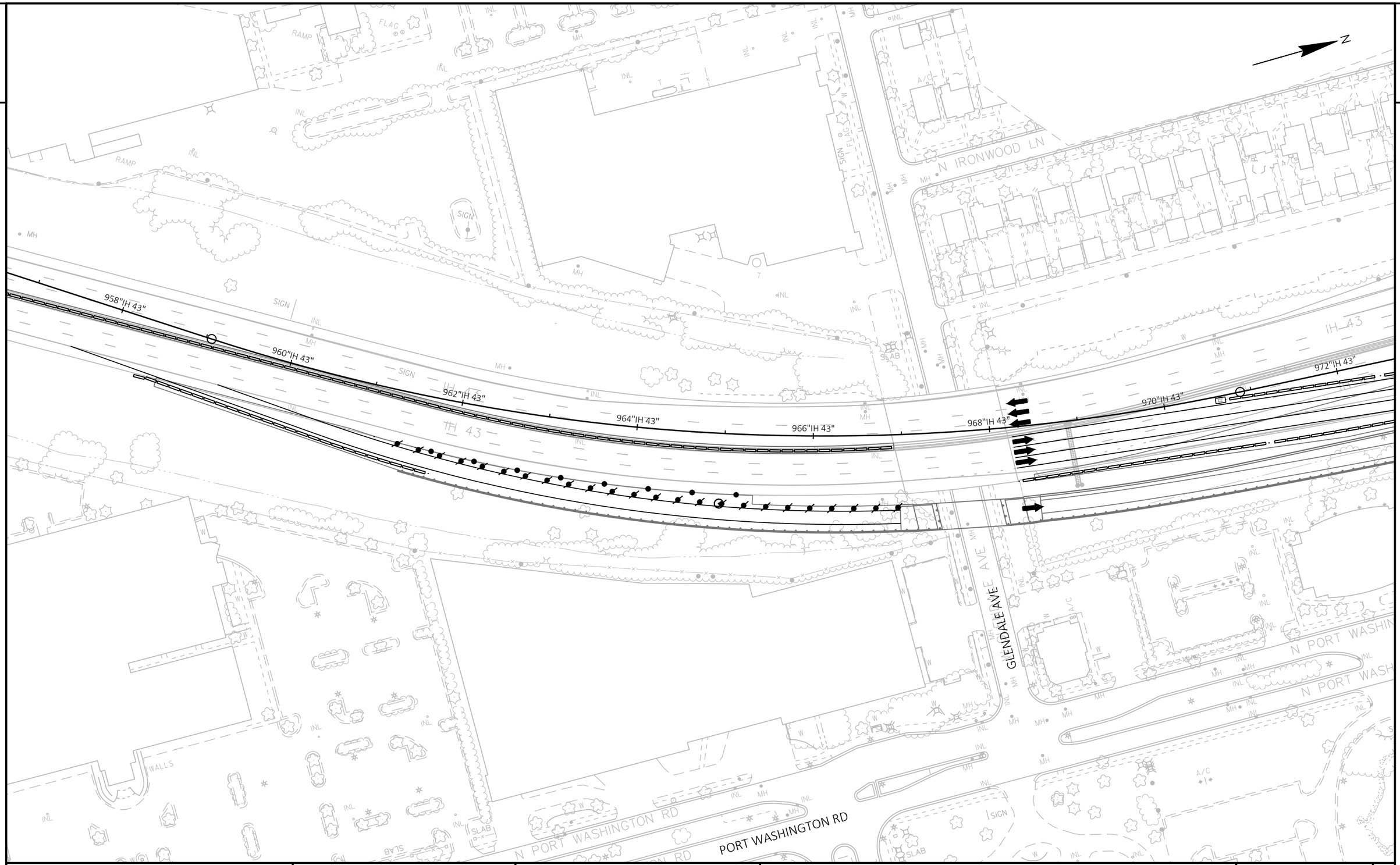
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-3ST.DWG
LAYOUT NAME - 026003-1w-st

PLOT DATE : 8/1/2019 11:45 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1W	SHEET PRE_181 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-3ST.DWG
LAYOUT NAME - 026004-1w-st

PLOT DATE : 8/1/2019 11:46 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MILWAUKEE RIVER

W ROCK PL

W HAMPTON AVE

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

R4000'

RIPRAP

N PORT WASHINGTON RD

WASHINGTON RD

SIGN

SLAB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1W	SHEET E

PRE_182

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-3ST.DWG
LAYOUT NAME - 026005-1w-st

PLOT DATE : 8/1/2019 11:46 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

GOLF COURSE

GOLF COURSE

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

IH 43 SB

IH 43 NB

IH 43

IH 43

SLAB

SLAB

SLAB

SLAB

SLAB

SLAB

SIGN

SIGN

FLAG

MH

INL

W

A/C

PORT WASHINGTON RD

R4000'

N PORT WASHINGTON RD

W CHATEAU PL

W MARNE DR

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1W	SHEET E

PRE_183

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-3ST.DWG
LAYOUT NAME - 026006-1w-st

PLOT DATE : 8/1/2019 11:46 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

1002"IH 43"
1004"IH 43"
1006"IH 43"
1008"IH 43"
1010"IH 43"
1012"IH 43"
1014"IH 43"
1016"IH 43"

IH 43 SB
IH 43 NB
IH 43
IH 43

N IRONWOOD RD
PORT WASHINGTON RD
HENRY CLAY ST

RIPRAP
RIPRAP
FLAG
SIGN
INL
MH
W
SLAB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1W	SHEET E

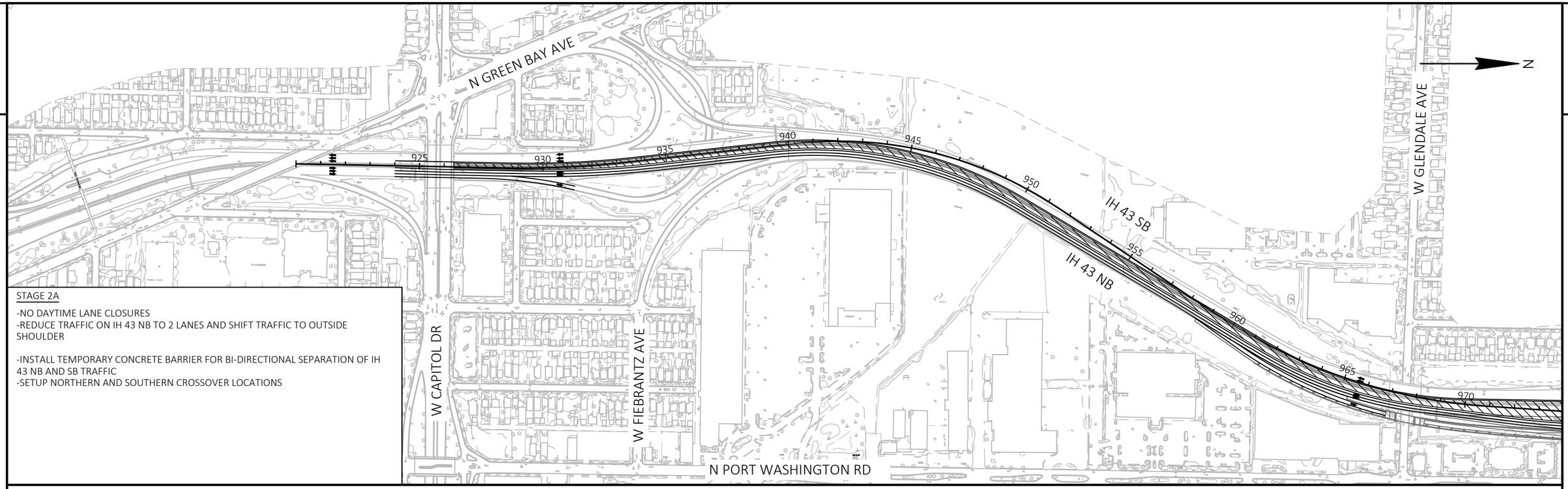
PRE_184

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-1W-3ST.DWG
LAYOUT NAME - 026007-1w-st

PLOT DATE : 8/1/2019 11:47 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

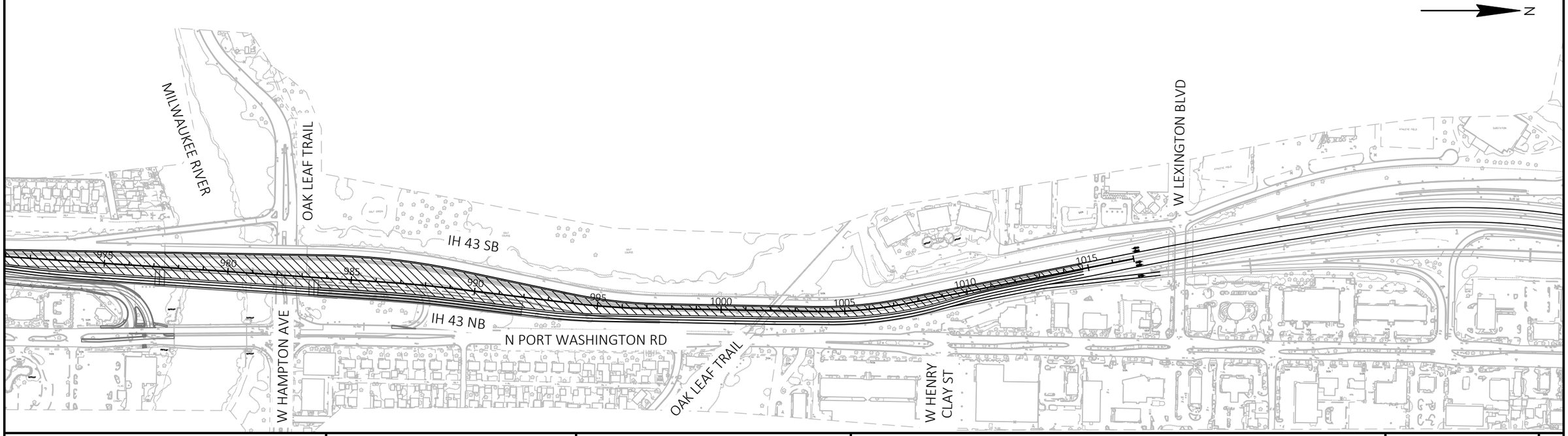
2



STAGE 2A

-NO DAYTIME LANE CLOSURES
-REDUCE TRAFFIC ON IH 43 NB TO 2 LANES AND SHIFT TRAFFIC TO OUTSIDE SHOULDER

-INSTALL TEMPORARY CONCRETE BARRIER FOR BI-DIRECTIONAL SEPARATION OF IH 43 NB AND SB TRAFFIC
-SETUP NORTHERN AND SOUTHERN CROSSOVER LOCATIONS



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 2A	SHEET E

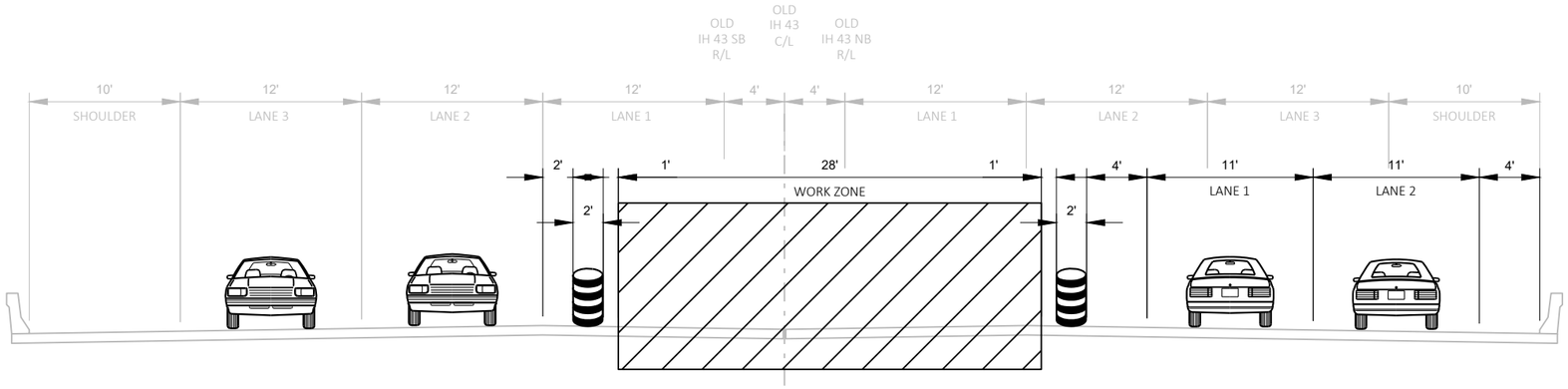
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-1OV.DWG
LAYOUT NAME - 026001-2a-ov

PLOT DATE : 8/1/2019 11:50 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_185

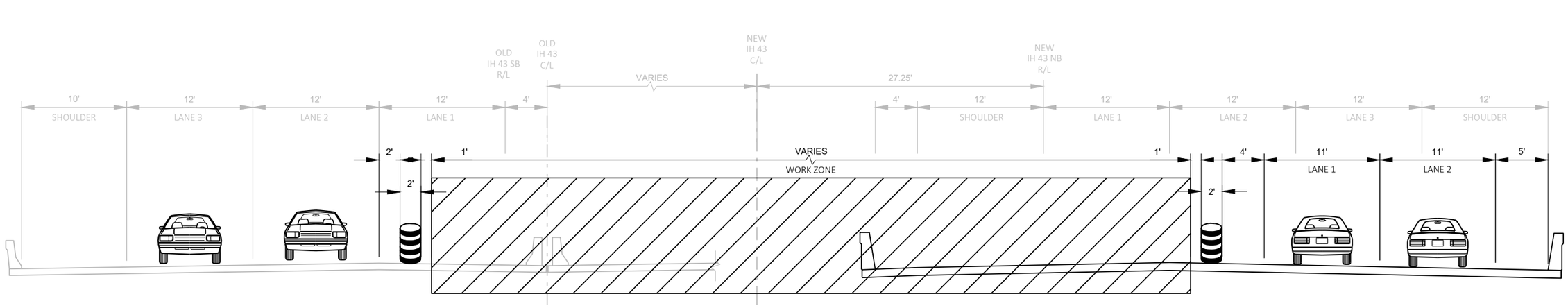
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 2A

CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 2A

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

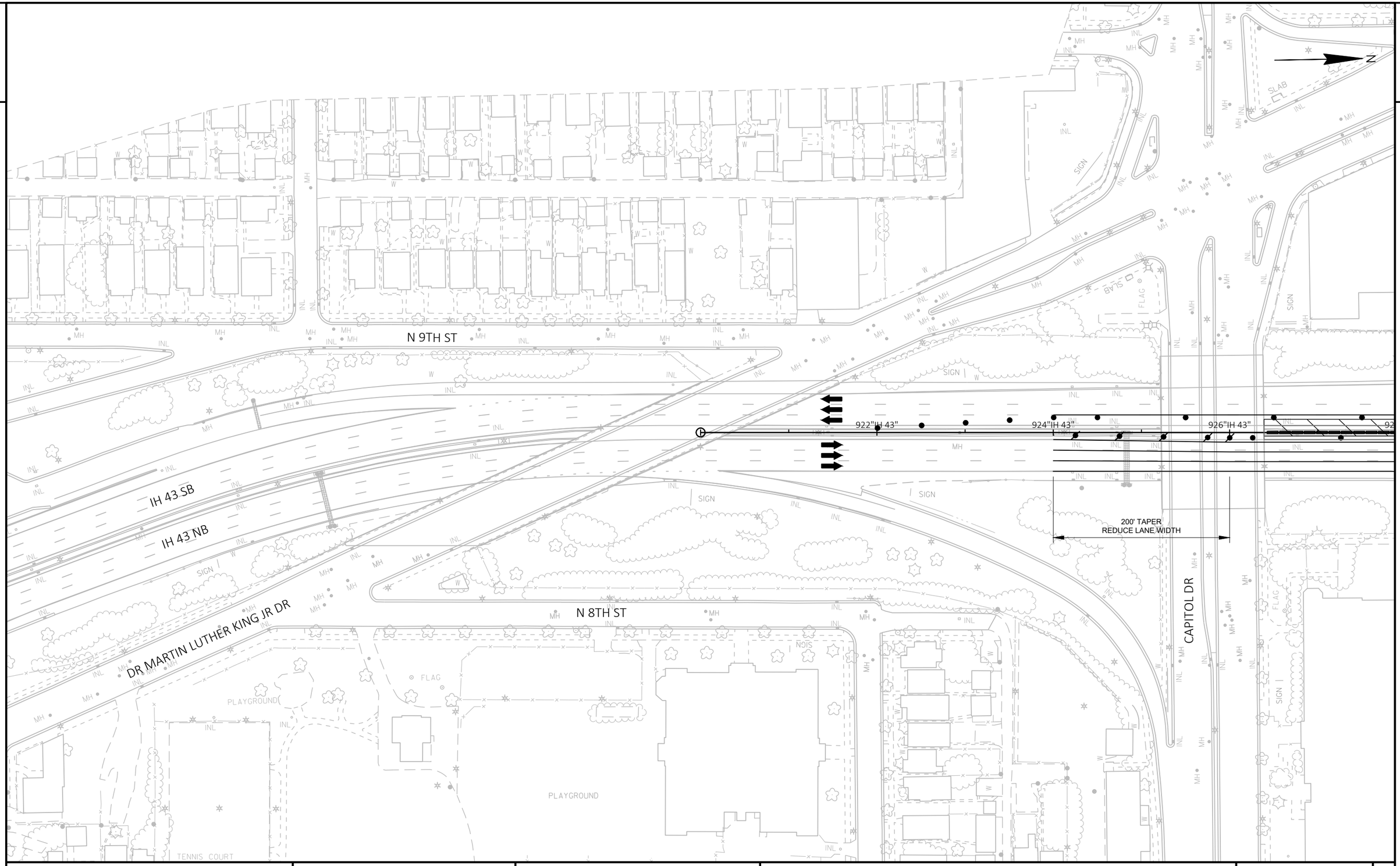
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2A	SHEET E

PRE_186

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-2TS.DWG
LAYOUT NAME - 026001-2a-ts

PLOT DATE : 7/31/2019 5:38 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

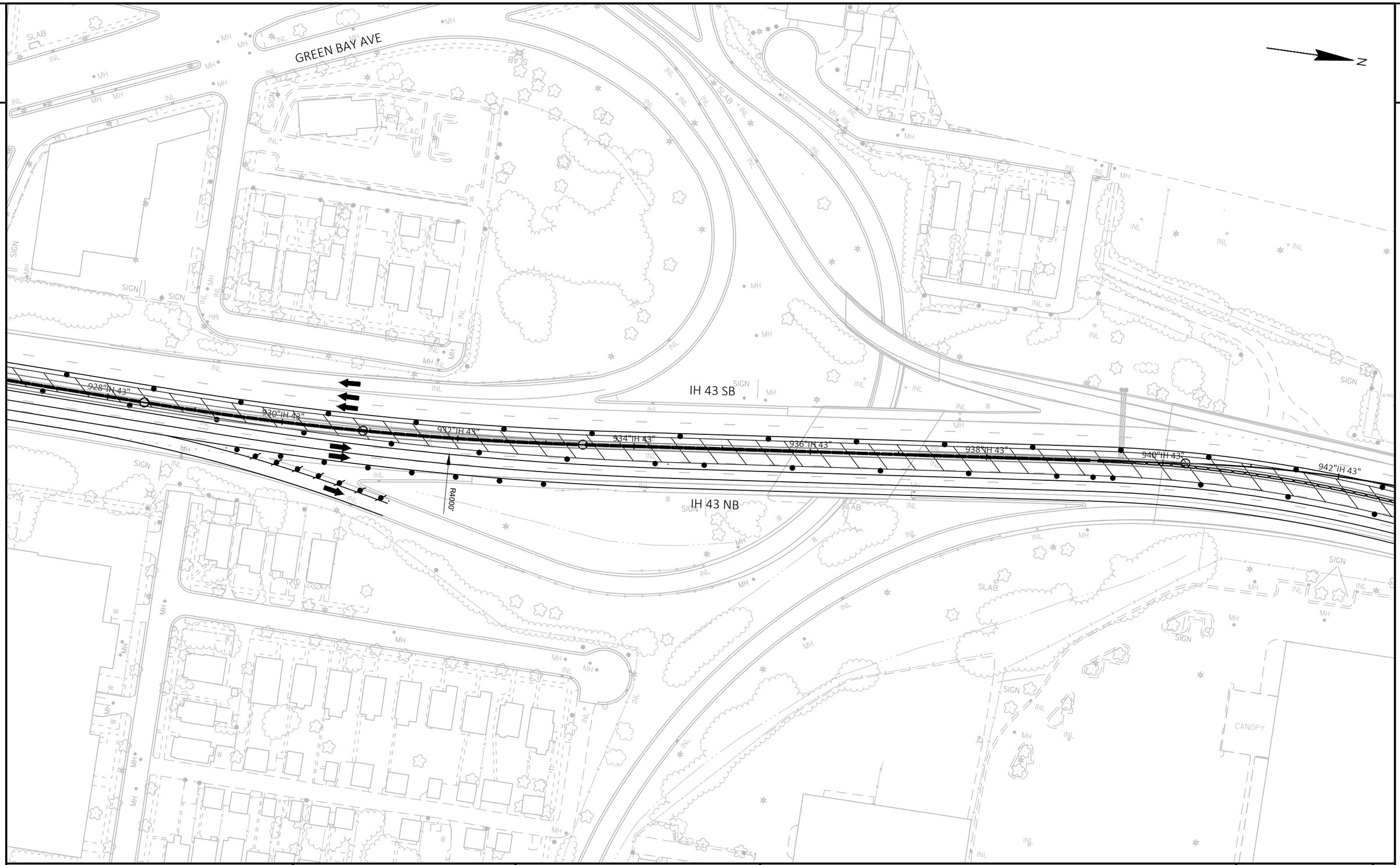


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026001-2a-st

PLOT DATE : 8/1/2019 11:51 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026002-2a-st

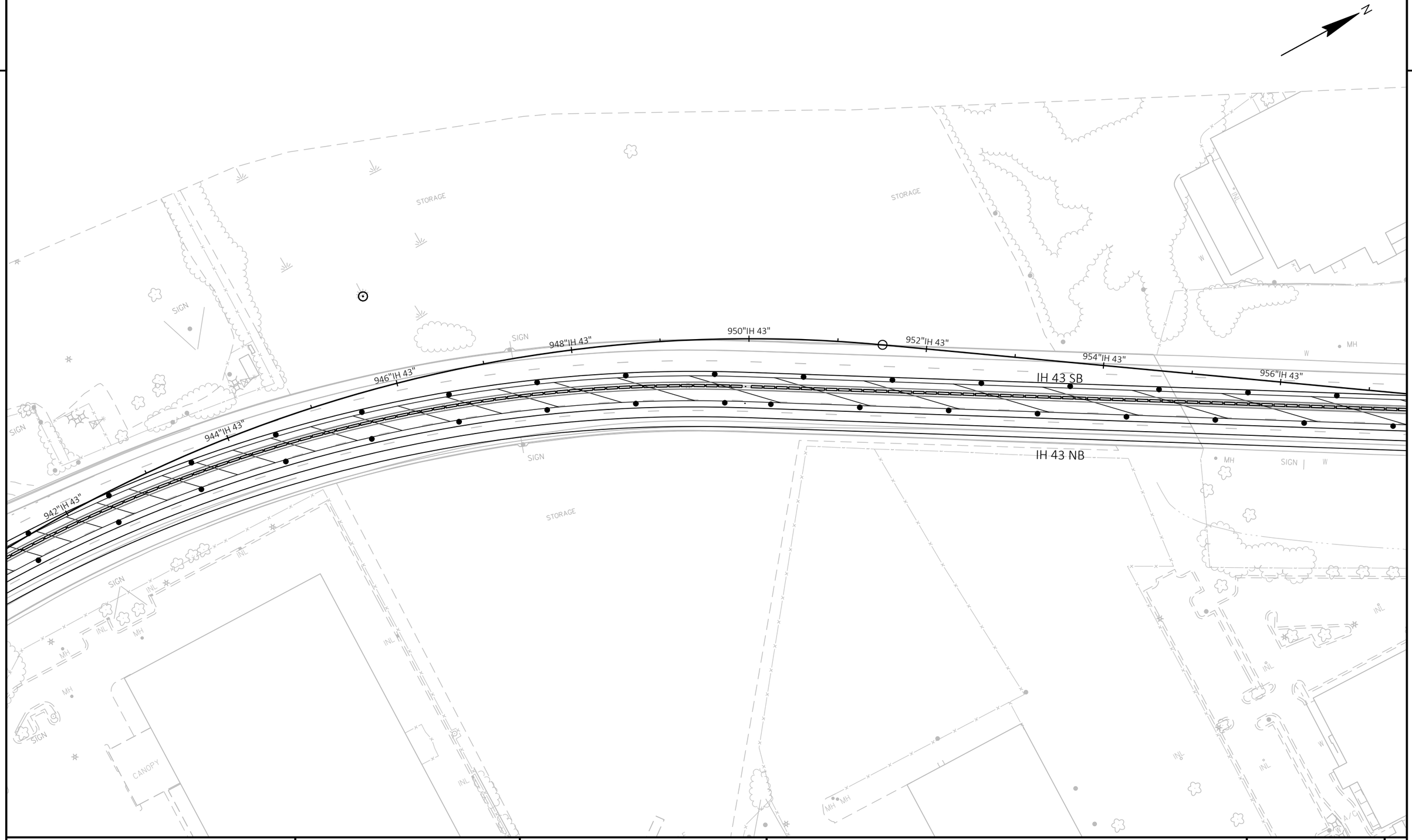
PLOT DATE : 8/1/2019 11:52 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_188

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

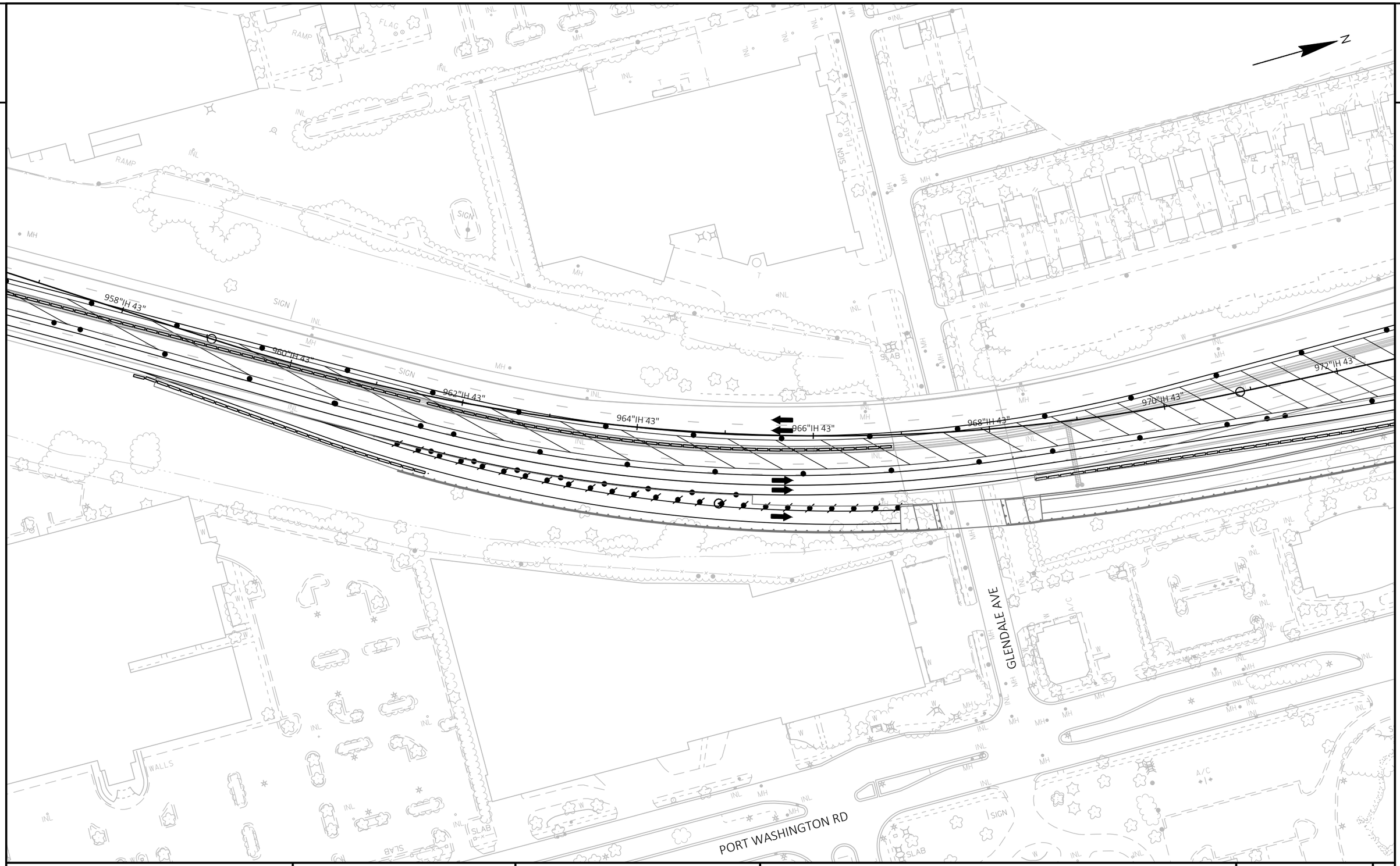
PRE_189

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026003-2a-st

PLOT DATE : 8/1/2019 11:52 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

PRE_190

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026004-2a-st

PLOT DATE : 8/1/2019 11:52 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

RIPRAP

R4000'

SLAB

SIGN

BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

PRE_191

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026005-2a-st

PLOT DATE : 8/1/2019 11:53 AM

PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2

2

N

IH 43 SB

IH 43 NB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

R2400'

PORT WASHINGTON RD

GOLF COURSE

GOLF COURSE

FLAG

SLAB

SIGN

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

PRE_192

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026006-2a-st

PLOT DATE : 8/1/2019 11:53 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 43 SB

IH 43 NB

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

165' SHIFTING TAPER
(6' SHIFT)

R2400'

200' TAPER
INCREASE LANE WIDTH

PORT WASHINGTON RD

RIPRAP

RIPRAP

SIGN

FLAG

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

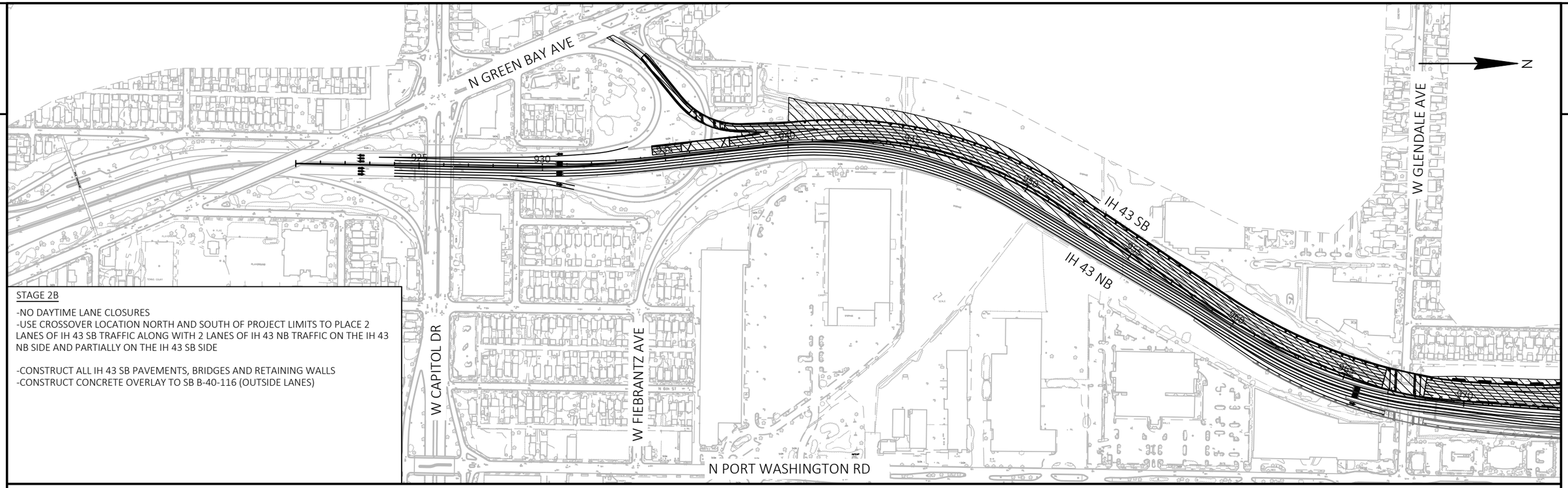
PRE_193

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2A-3ST.DWG
LAYOUT NAME - 026007-2a-st

PLOT DATE : 8/1/2019 11:53 AM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

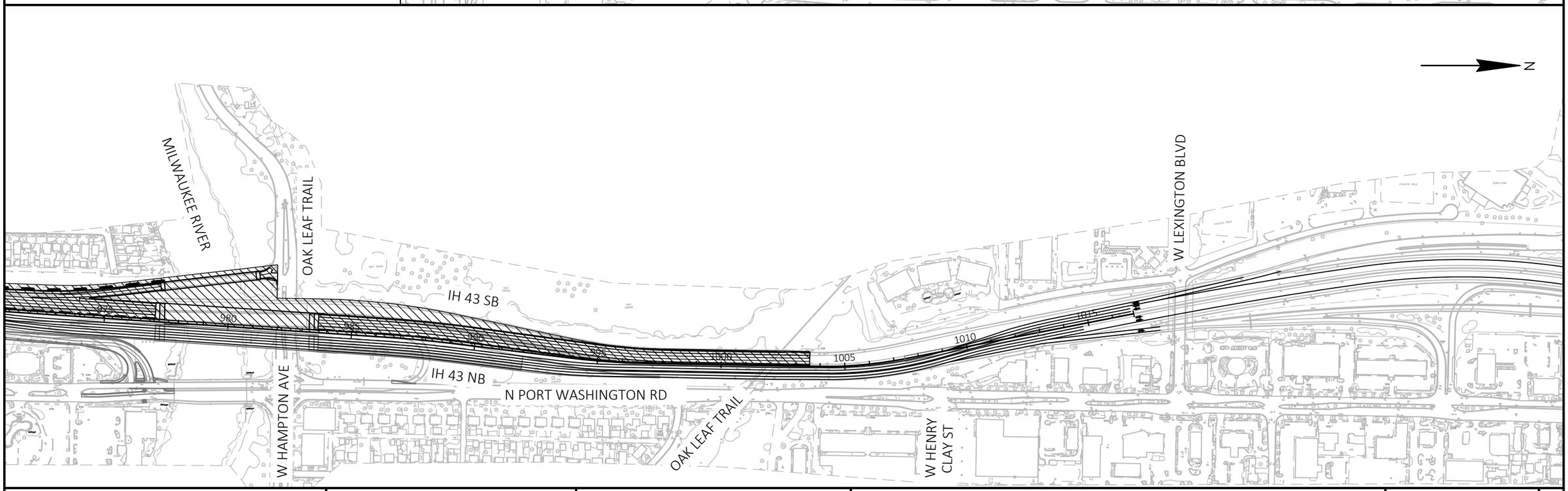
2



STAGE 2B

-NO DAYTIME LANE CLOSURES
-USE CROSSOVER LOCATION NORTH AND SOUTH OF PROJECT LIMITS TO PLACE 2 LANES OF IH 43 SB TRAFFIC ALONG WITH 2 LANES OF IH 43 NB TRAFFIC ON THE IH 43 NB SIDE AND PARTIALLY ON THE IH 43 SB SIDE

-CONSTRUCT ALL IH 43 SB PAVEMENTS, BRIDGES AND RETAINING WALLS
-CONSTRUCT CONCRETE OVERLAY TO SB B-40-116 (OUTSIDE LANES)

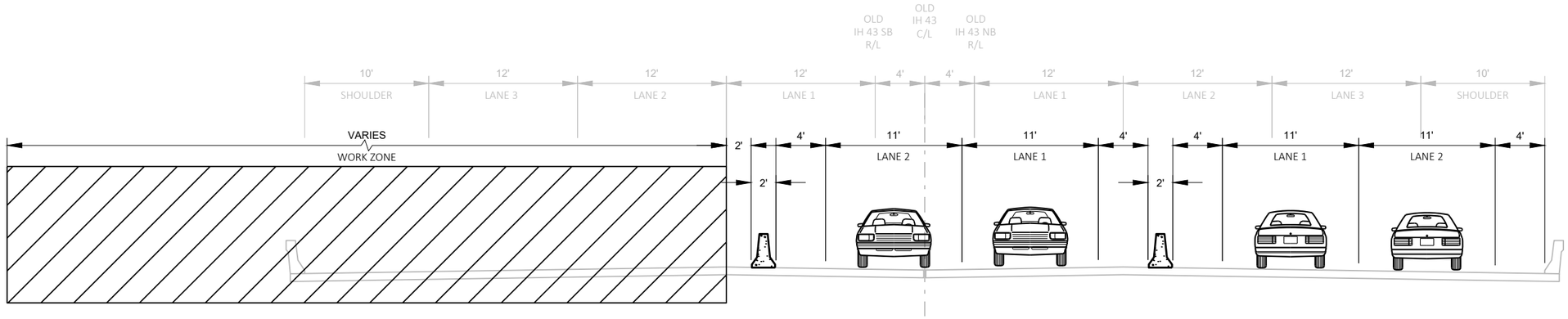


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 2B	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-1OV.DWG
LAYOUT NAME - 026001-2b-ov

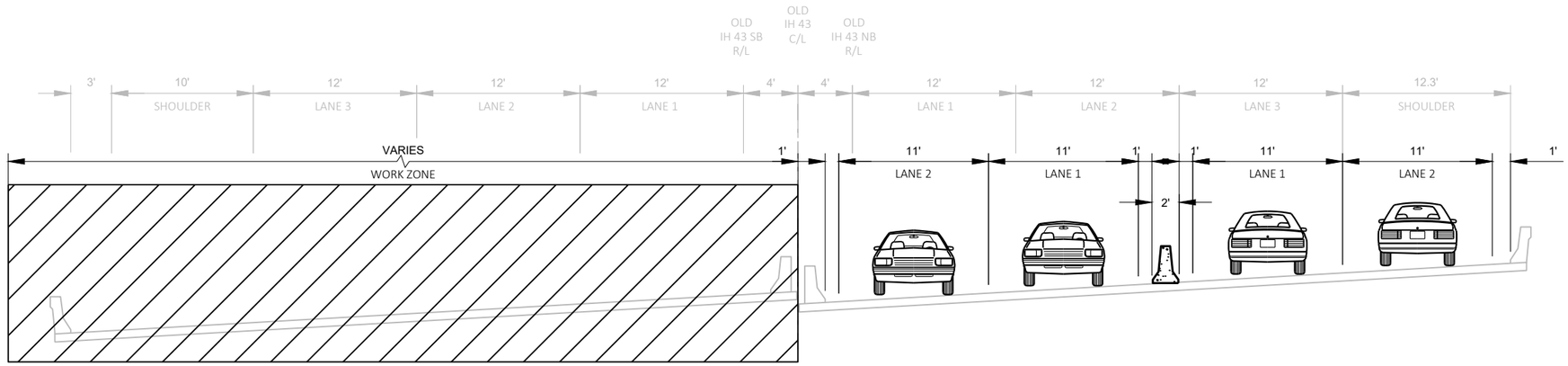
PLOT DATE : 8/1/2019 12:05 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

2



TYPICAL SECTION - STAGE 2B

CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 2B

GLENDALE AVE
(NO DAYTIME LANE CLOSURES)

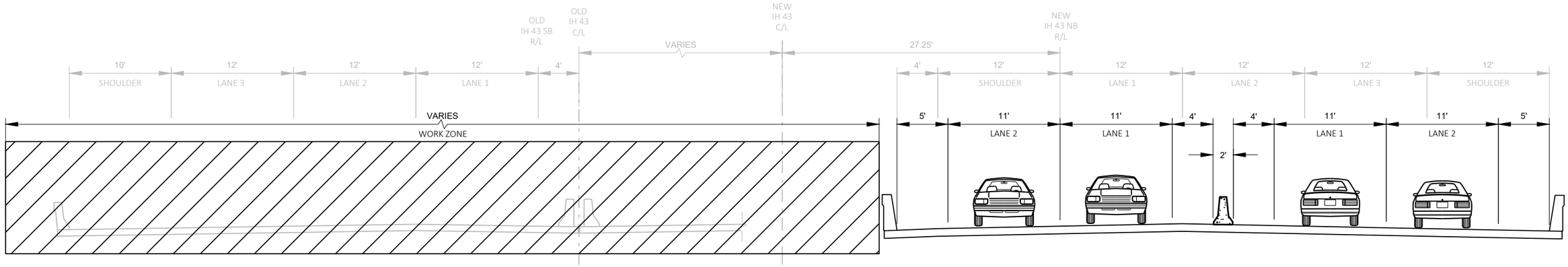
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2B	SHEET E

PRE_195

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-2TS.DWG
LAYOUT NAME - 026001-2b-ts

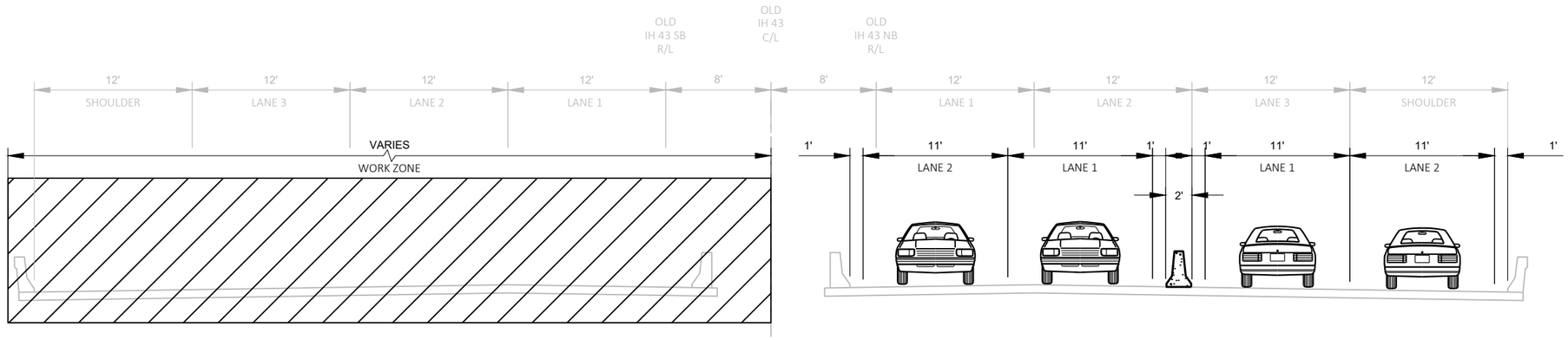
PLOT DATE : 7/31/2019 5:40 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



TYPICAL SECTION - STAGE 2B

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 2B

UNDER OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2B	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-2TS.DWG
LAYOUT NAME - 026002-2b-ts

PLOT DATE : 7/31/2019 5:40 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

N

N 9TH ST

IH 43 SB

IH 43 NB

DR MARTIN LUTHER KING JR DR

N 8TH ST

CAPITOL DR

922"IH 43"

924"IH 43"

926"IH 43"

200' TAPER
REDUCE LANE WIDTH

200' TAPER
REDUCE LANE WIDTH

SLAB

SIGN

FLAG

PLAYGROUND

TENNIS COURT

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

PRE_197

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026001-2b-st

PLOT DATE : 8/1/2019 12:07 PM

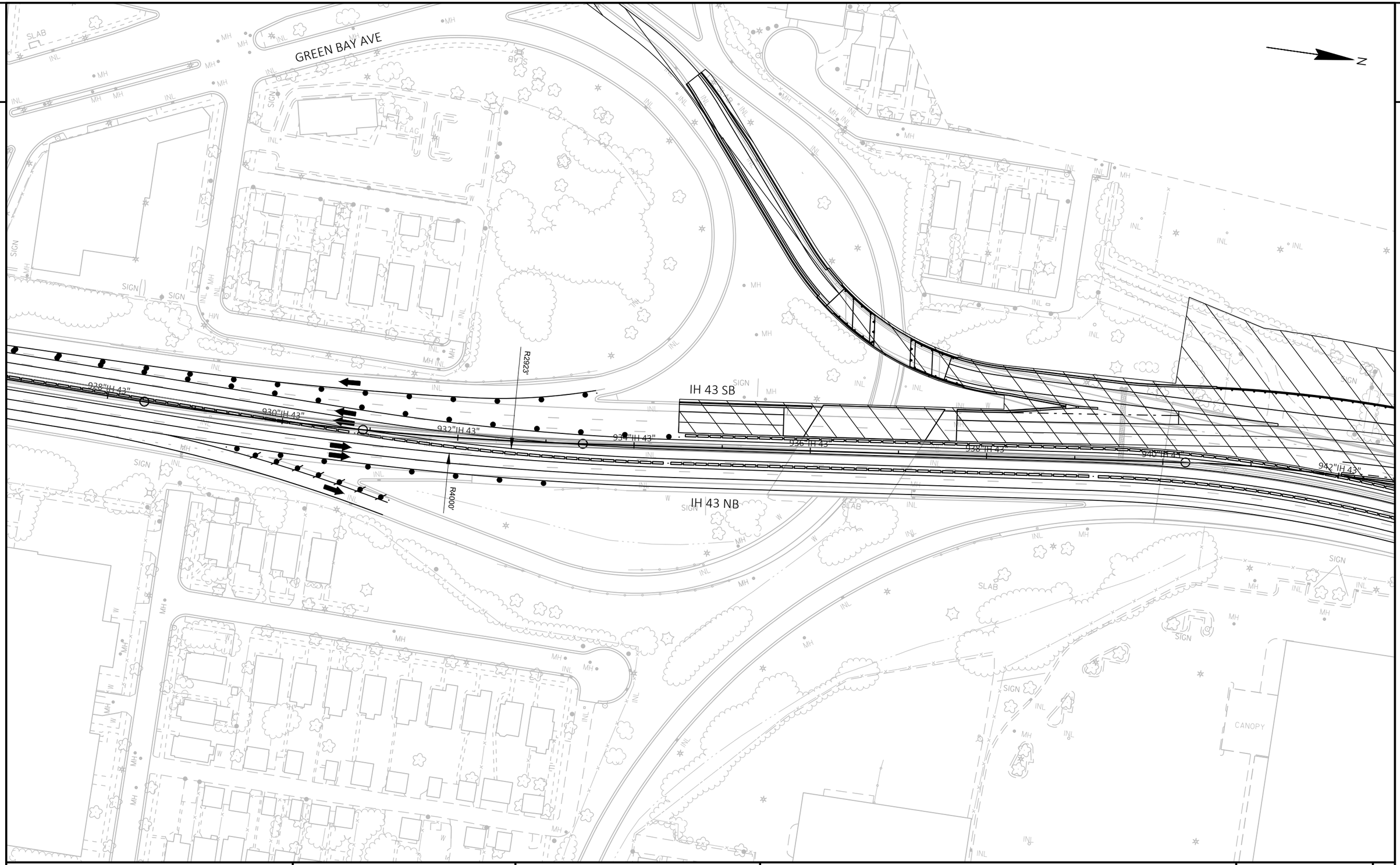
PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

PRE_198

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026002-2b-st

PLOT DATE : 8/1/2019 12:07 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

STORAGE

STORAGE

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

942 IH 43

944 IH 43

946 IH 43

948 IH 43

950 IH 43

952 IH 43

954 IH 43

956 IH 43

IH 43 SB

IH 43 NB

STORAGE

CANOPY

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET PRE_199 E

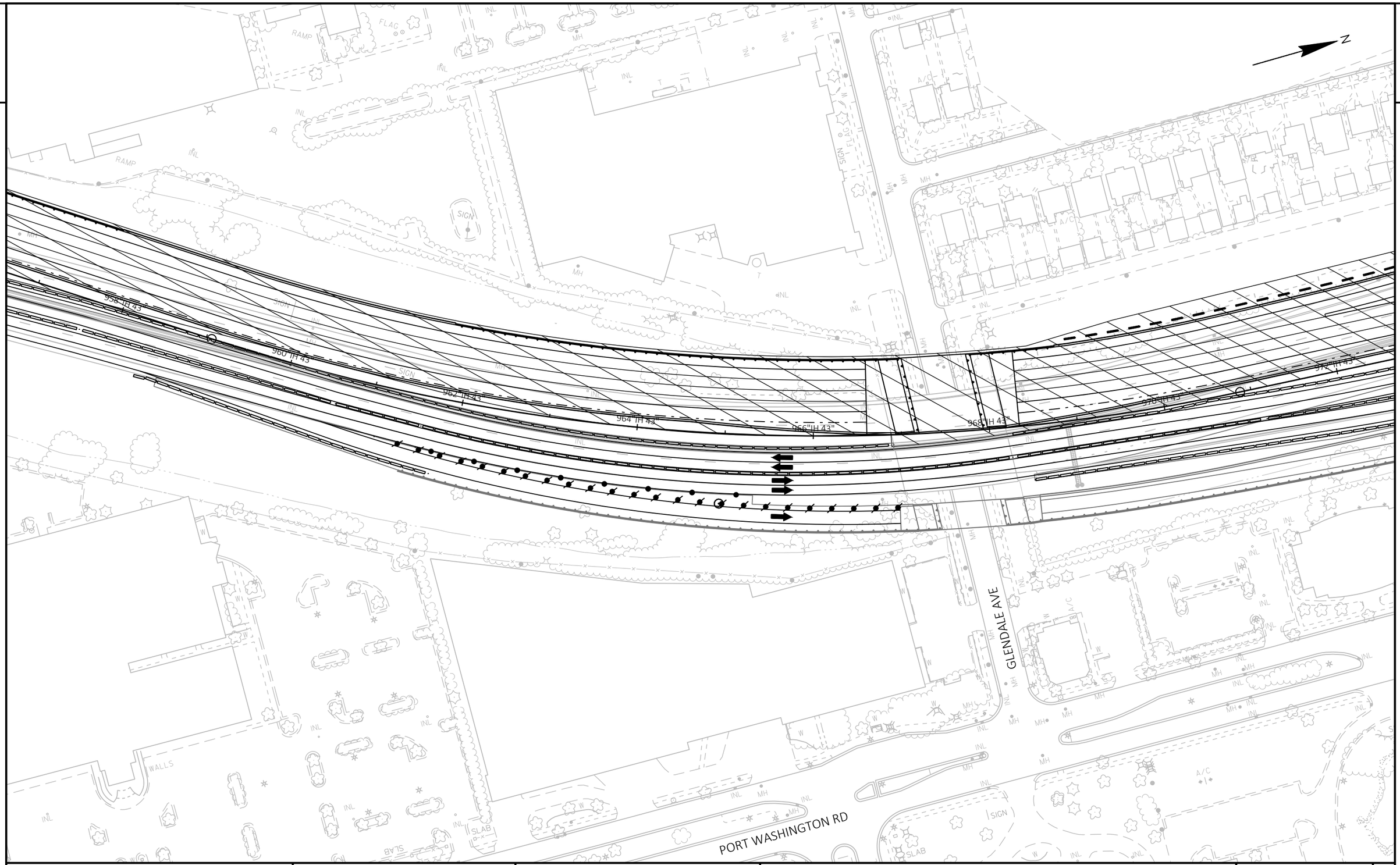
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026003-2b-st

PLOT DATE : 8/1/2019 12:07 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

PRE_200

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026004-2b-st

PLOT DATE : 8/1/2019 12:08 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

SLAB

A/C

INL

MH

W

SIGN

BG

RIPRAP

R4000'

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

IH 43 SB

IH 43 NB

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

PRE_201

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026005-2b-st

PLOT DATE : 8/1/2019 12:08 PM

PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 43 SB

IH 43 NB

PORT WASHINGTON RD

GOLF COURSE

GOLF COURSE

SLAB

SLAB

SLAB

SLAB

FLAG

SIGN

SIGN

R2400'

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

PRE_202

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026006-2b-st

PLOT DATE : 8/1/2019 12:08 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

165' SHIFTING TAPER
(6' SHIFT)

R2400'

IH 43 SB

200' TAPER
REDUCE LANE WIDTH

IH 43 NB

R2400'

200' TAPER
INCREASE LANE WIDTH

PORT WASHINGTON RD

RIPRAP

RIPRAP

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B	SHEET E

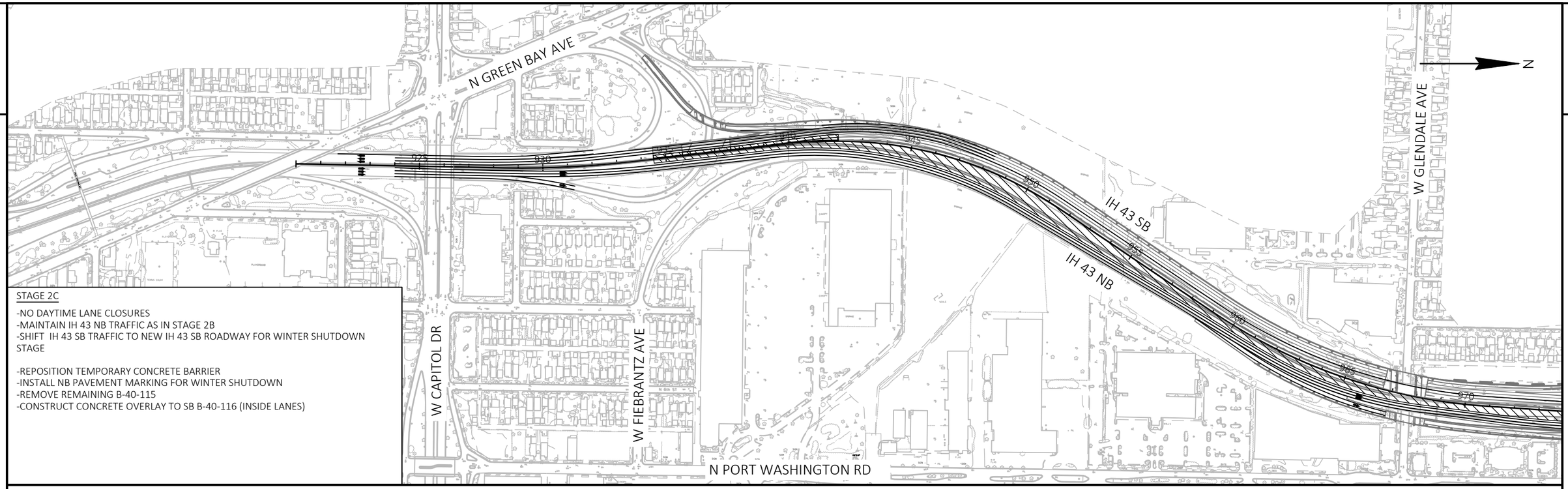
PRE_203

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2B-3ST.DWG
LAYOUT NAME - 026007-2b-st

PLOT DATE : 8/1/2019 12:09 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

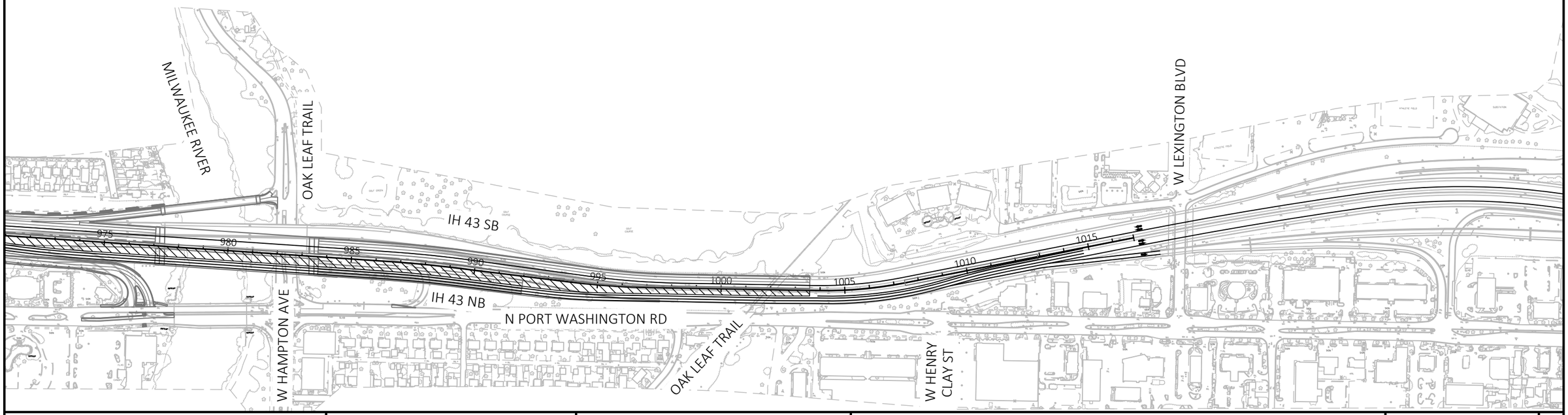
2



STAGE 2C

-NO DAYTIME LANE CLOSURES
-MAINTAIN IH 43 NB TRAFFIC AS IN STAGE 2B
-SHIFT IH 43 SB TRAFFIC TO NEW IH 43 SB ROADWAY FOR WINTER SHUTDOWN STAGE

-REPOSITION TEMPORARY CONCRETE BARRIER
-INSTALL NB PAVEMENT MARKING FOR WINTER SHUTDOWN
-REMOVE REMAINING B-40-115
-CONSTRUCT CONCRETE OVERLAY TO SB B-40-116 (INSIDE LANES)



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 2C	SHEET E

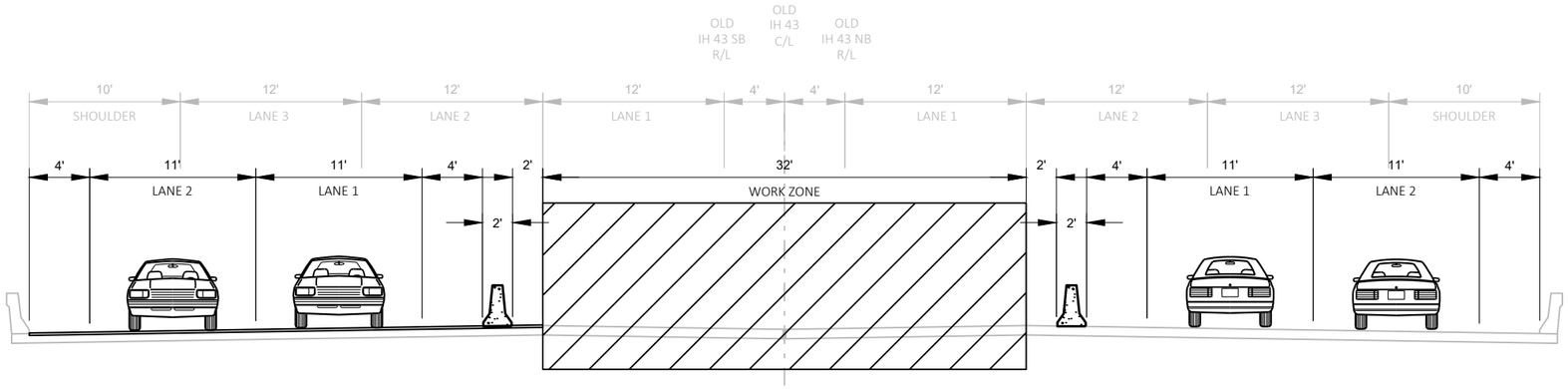
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-1OV.DWG
LAYOUT NAME - 026001-2c-ov

PLOT DATE : 8/1/2019 1:19 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_204

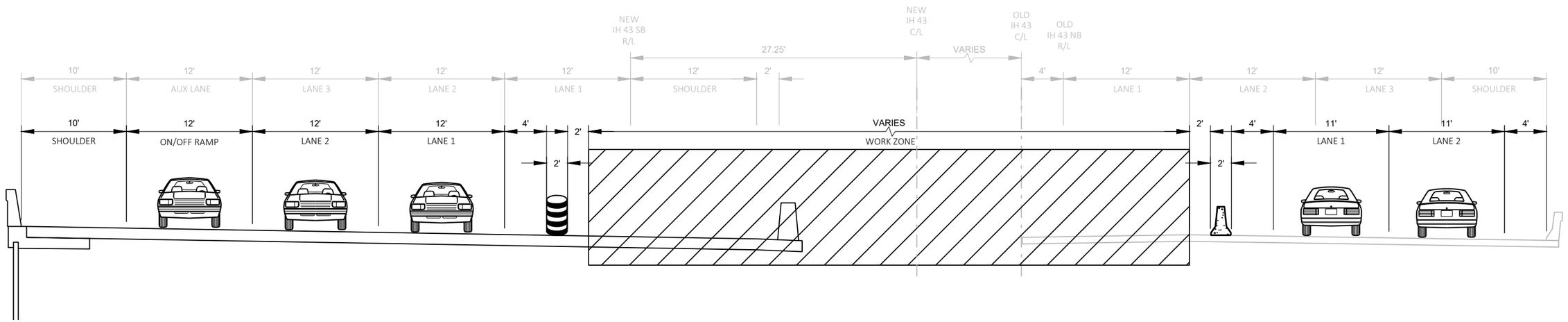
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 2C

B-40-116
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 2C

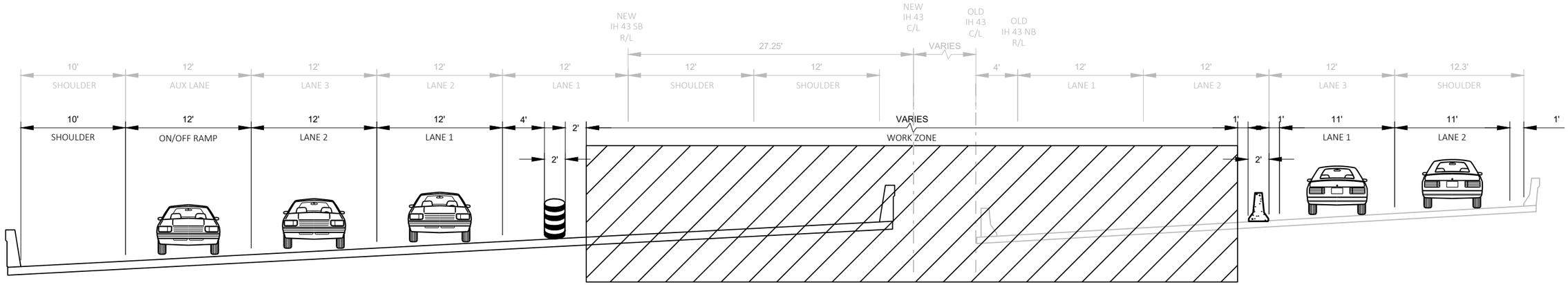
CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2C	SHEET PRE_205 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-2TS.DWG
LAYOUT NAME - 026001-2c-ts

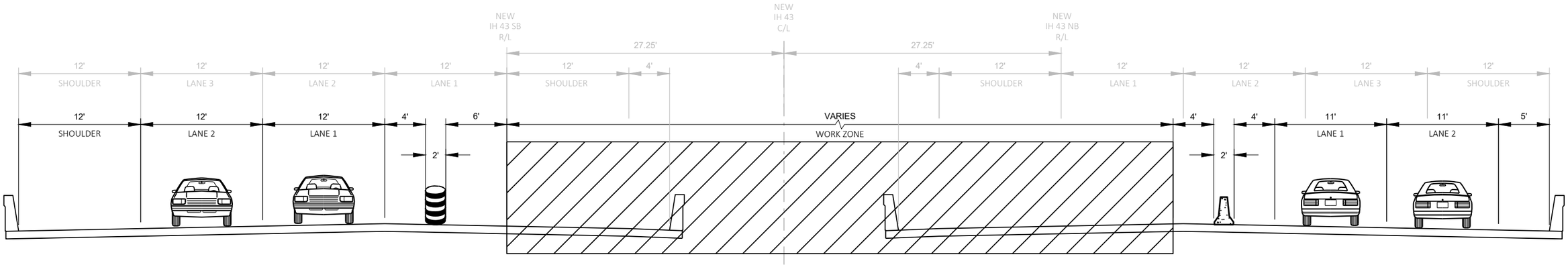
PLOT DATE : 7/31/2019 5:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



TYPICAL SECTION - STAGE 2C

GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 2C

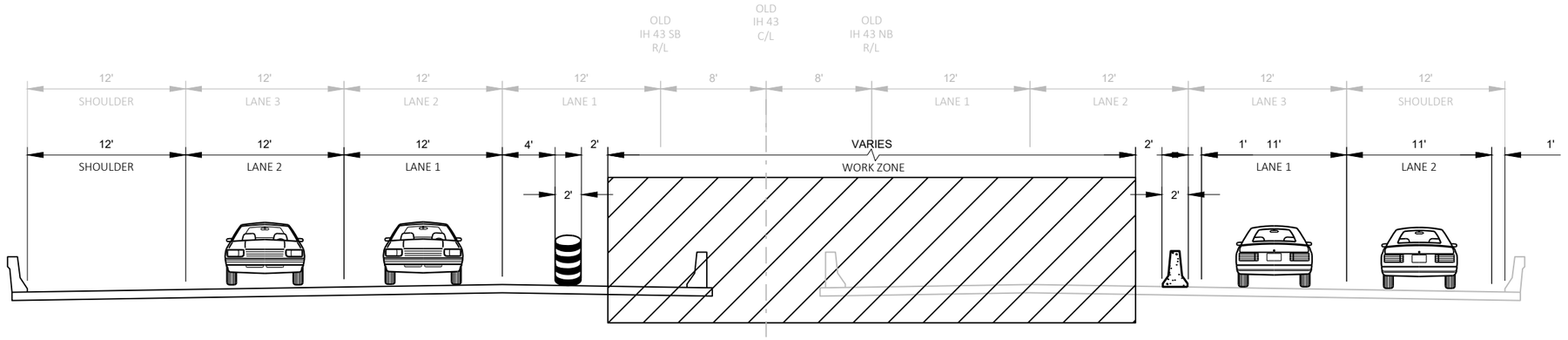
GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2C	SHEET E

PRE_206

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-2TS.DWG
LAYOUT NAME - 026002-2c-ts

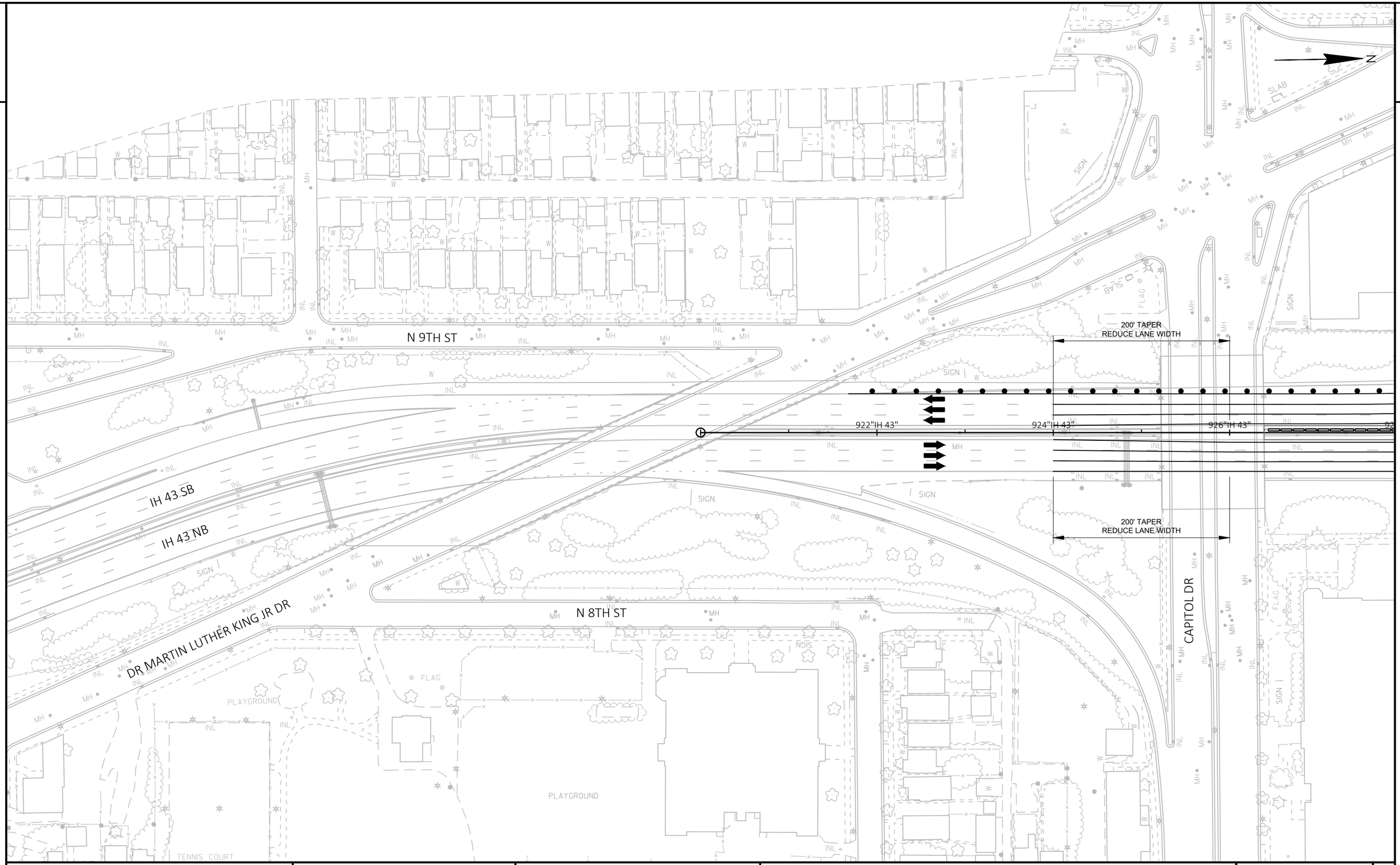
PLOT DATE : 7/31/2019 5:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT



TYPICAL SECTION - STAGE 2C

UNDER OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

PRE_208

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026001-2c-st

PLOT DATE : 8/1/2019 1:10 PM

PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

GREEN BAY AVE

IH 43 SB

IH 43 NB

R4000'

R4000'

928"IH 43"

930"IH 43"

932"IH 43"

934"IH 43"

936"IH 43"

938"IH 43"

940"IH 43"

942"IH 43"

SLAB

SIGN

FLAG

CANOPY

N

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

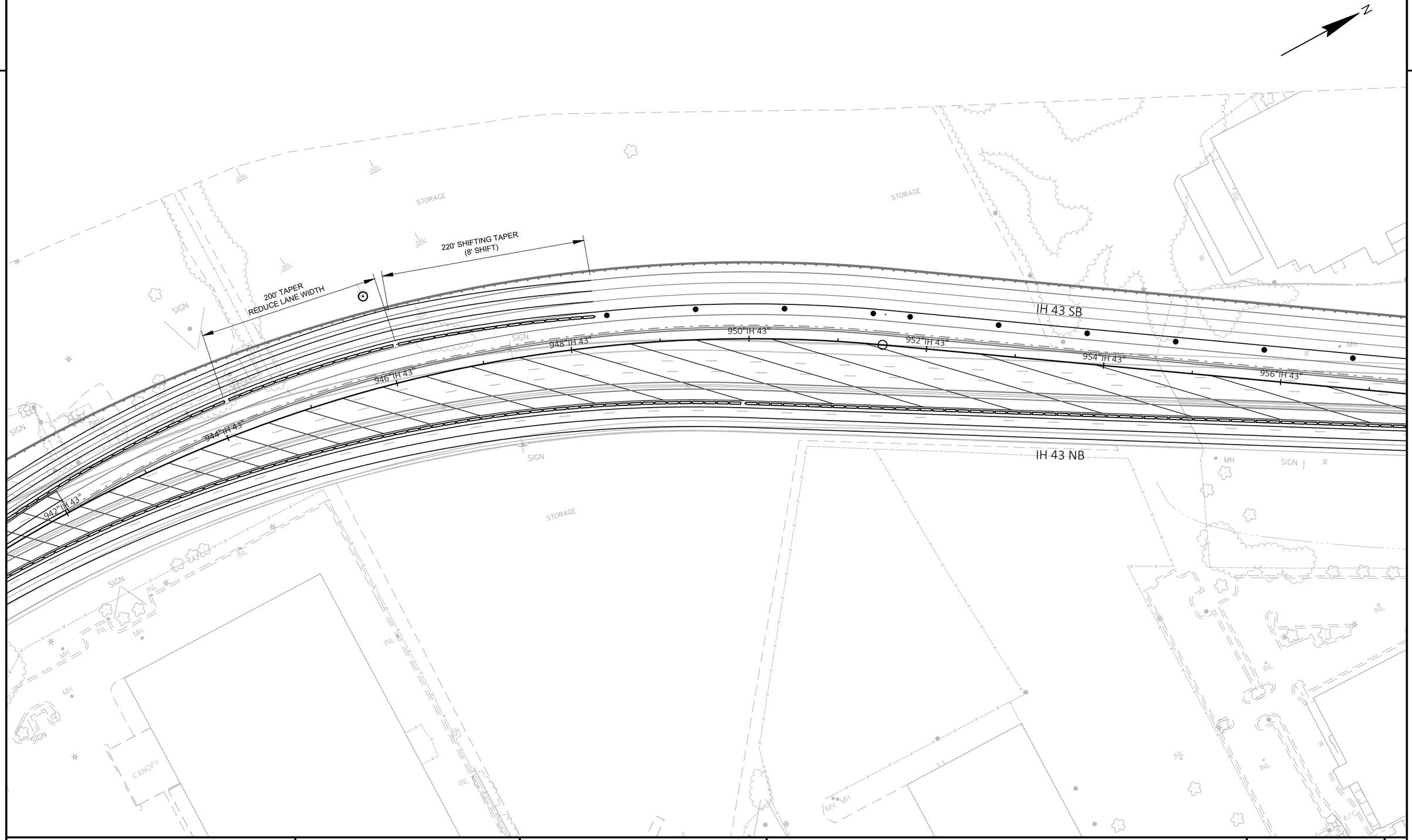
PRE_209

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026002-2c-st

PLOT DATE : 8/1/2019 1:11 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



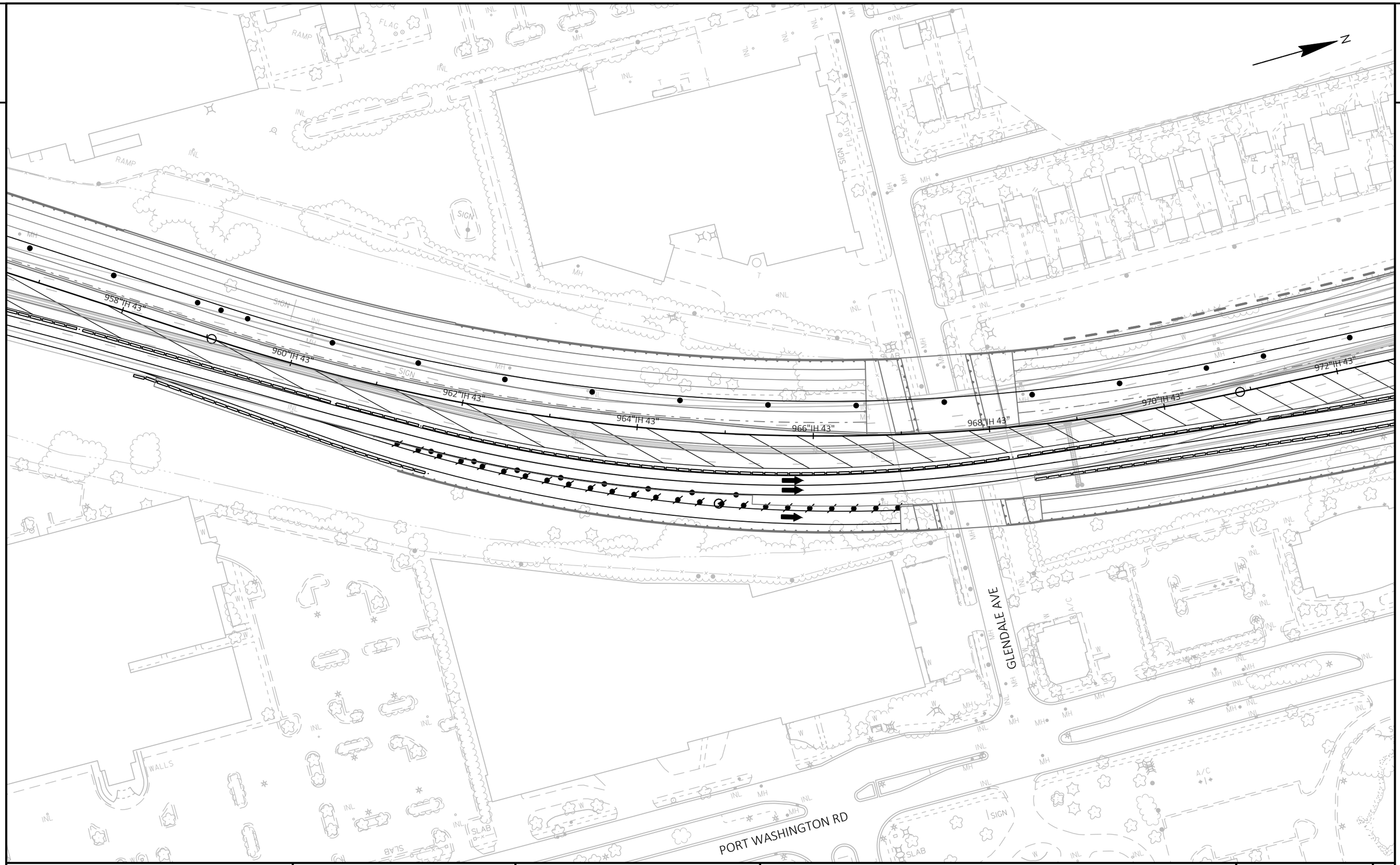
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET PRE_210 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026003-2c-st

PLOT DATE : 8/1/2019 1:11 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

PRE_211

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026004-2c-st

PLOT DATE : 8/1/2019 1:11 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

R4000'

RIPRAP

SLAB

SIGN

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

PRE_212

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026005-2c-st

PLOT DATE : 8/1/2019 1:12 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

GOLF COURSE

GOLF COURSE

IH 43 SB

IH 43 NB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

R2400'

PORT WASHINGTON RD

SLAB

FLAG

SIGN

A/C

MH

INL

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

PRE_213

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026006-2c-st

PLOT DATE : 8/1/2019 1:12 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

IH 43 SB

IH 43 NB

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

165' SHIFTING TAPER
(6' SHIFT)

200' TAPER
INCREASE LANE WIDTH

R2400'

PORT WASHINGTON RD

RIPRAP

RIPRAP

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET E

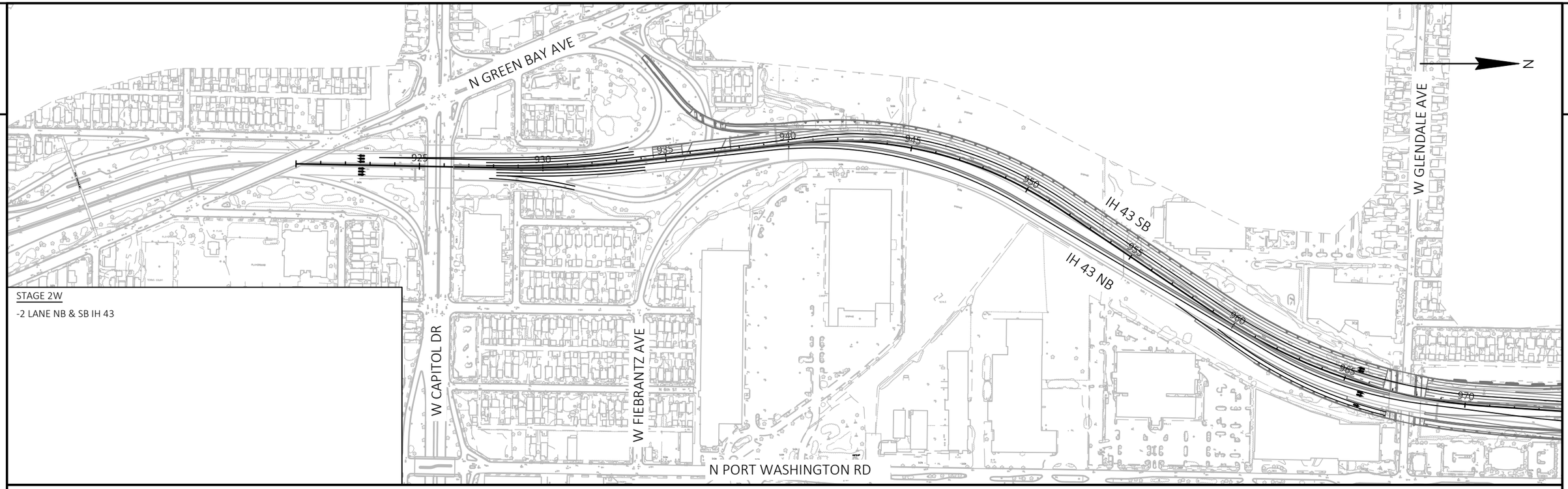
PRE_214

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2C-3ST.DWG
LAYOUT NAME - 026007-2c-st

PLOT DATE : 8/1/2019 1:12 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

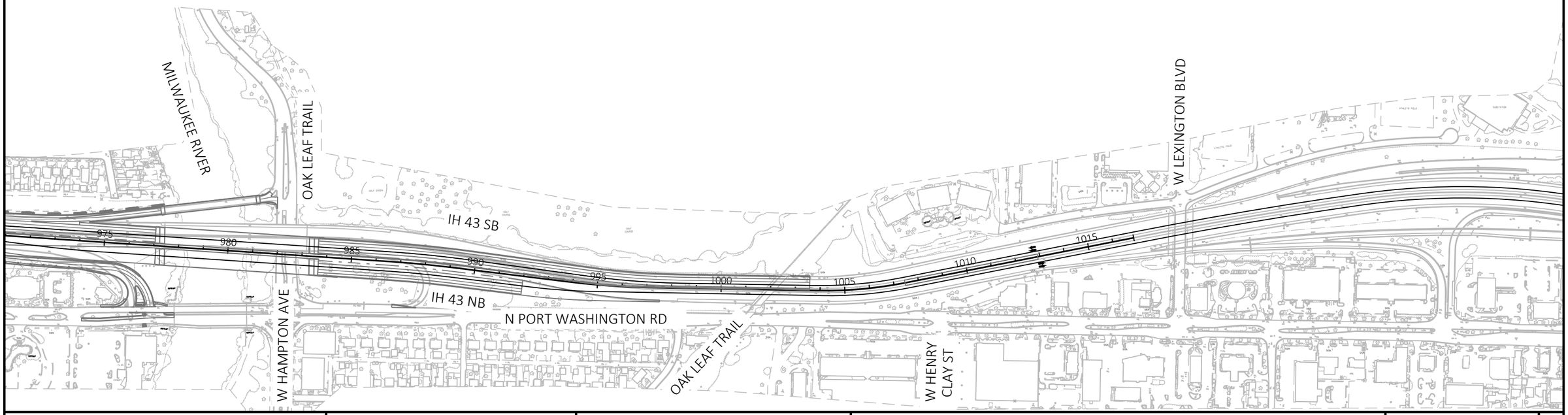
WISDOT/CADDS SHEET 42

2



STAGE 2W

-2 LANE NB & SB IH 43



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 2W	SHEET E

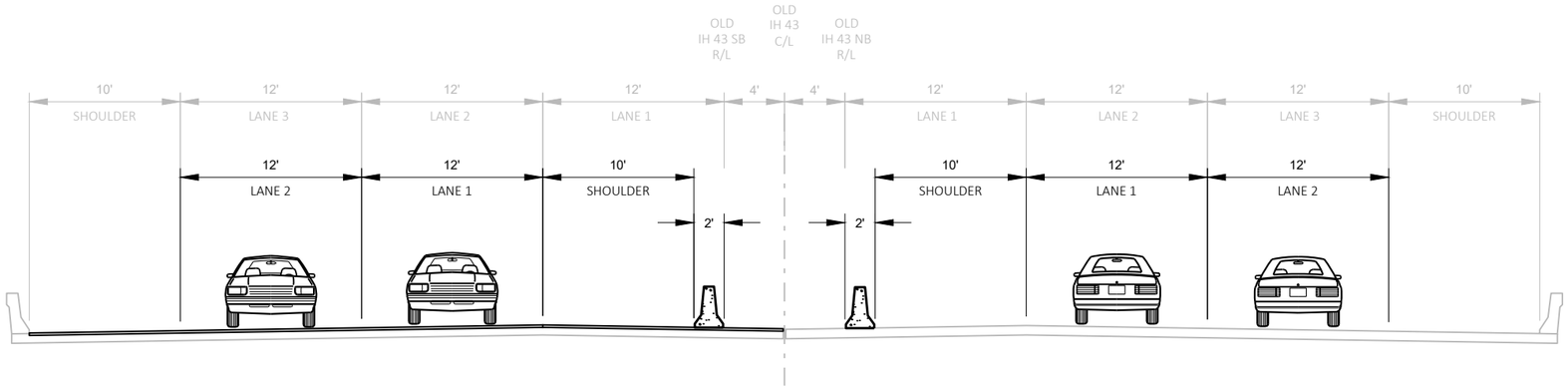
PRE_215

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-1OV.DWG
LAYOUT NAME - 026001-2w-ov

PLOT DATE : 8/1/2019 1:25 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

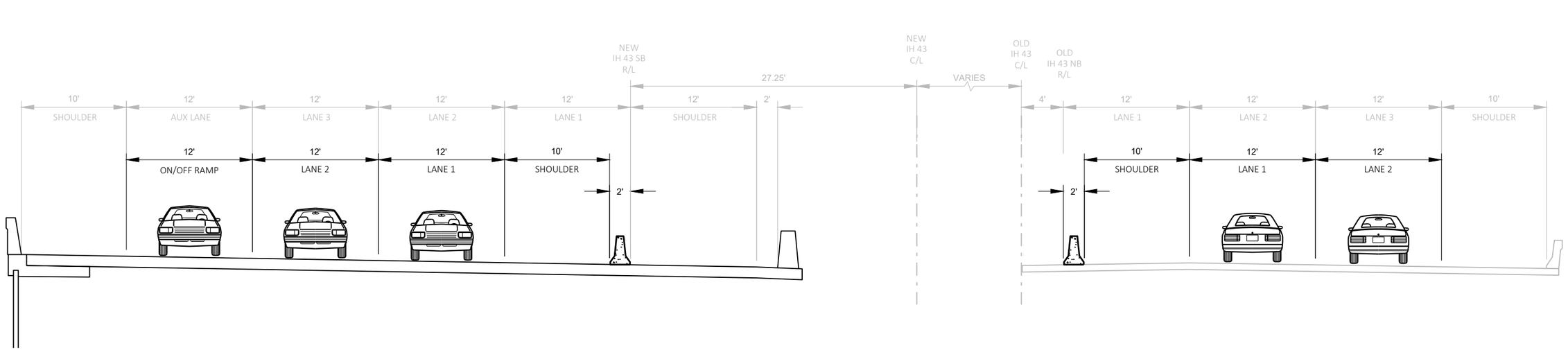
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - WINTER SHUTDOWN 2

B-40-116
(NO LANE CLOSURES)



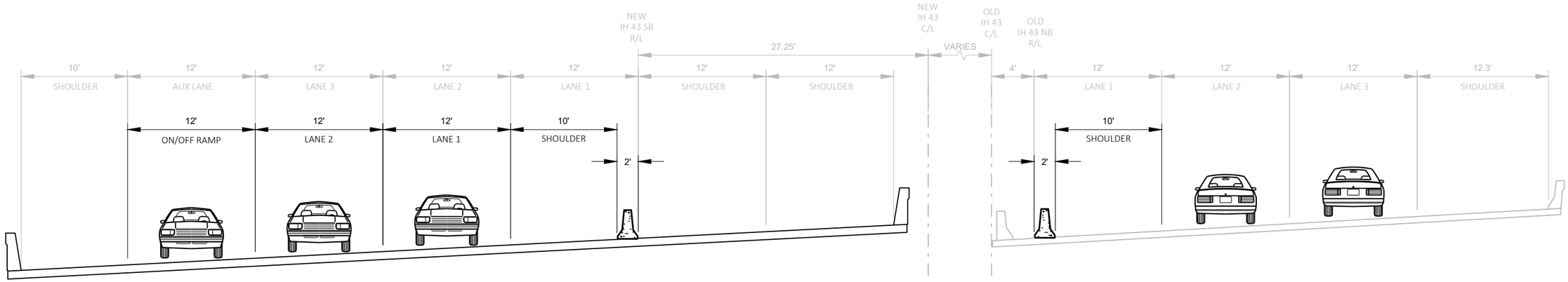
TYPICAL SECTION - WINTER SHUTDOWN 2

CAPITOL DR TO GLENDALE AVE
(NO LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2W	SHEET E

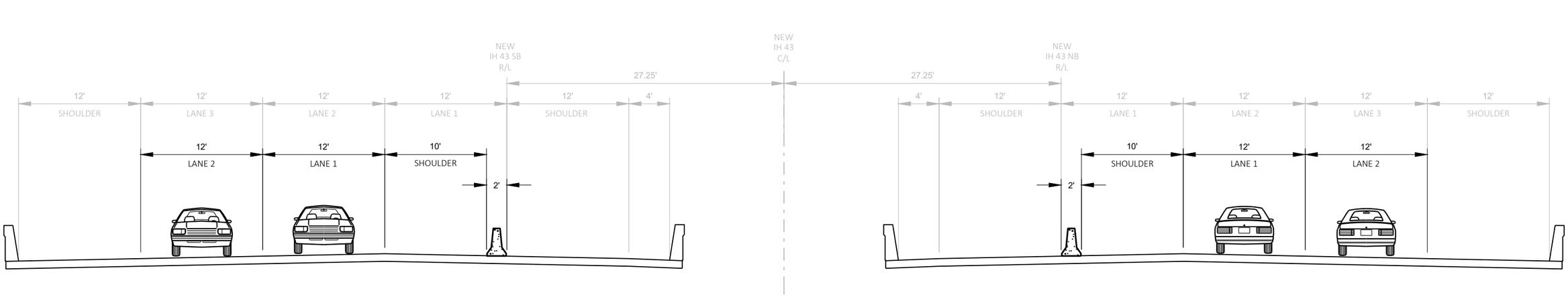
PRE_216

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-2TS.DWG
LAYOUT NAME - 026001-2w-ts
PLOT DATE : 7/31/2019 5:48 PM
PLOT BY : LIMBERATOS, EVAN P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPICAL SECTION - WINTER SHUTDOWN 2

GLENDALE AVE
(NO LANE CLOSURES)



TYPICAL SECTION - WINTER SHUTDOWN 2

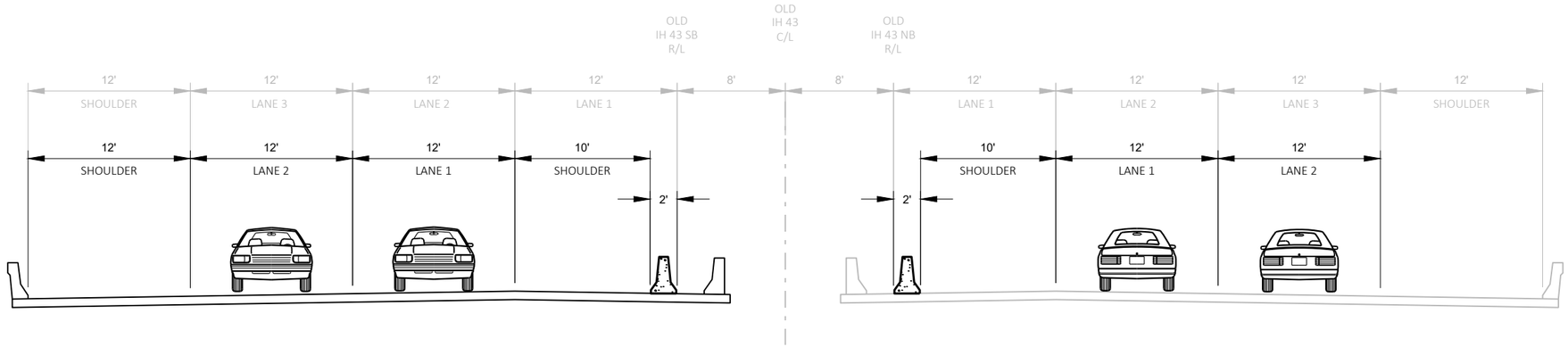
GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2W	SHEET E

PRE_217

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-2TS.DWG
LAYOUT NAME - 026002-2w-ts

PLOT DATE : 7/31/2019 5:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT



TYPICAL SECTION - WINTER SHUTDOWN 2

UNDER OAK LEAF TRAIL STRUCTURE
(NO LANE CLOSURES)

2

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 2W	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-2TS.DWG
LAYOUT NAME - 026003-2w-ts
PLOT DATE : 7/31/2019 5:48 PM
PLOT BY : LIMBERATOS, EVAN P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

2

2

N

N 9TH ST

922"IH 43"

924"IH 43"

926"IH 43"

IH 43 SB

IH 43 NB

DR MARTIN LUTHER KING JR DR

N 8TH ST

CAPITOL DR

SLAB

SIGN

FLAG

PLAYGROUND

TENNIS COURT

NOIS

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026001-2w-st

PLOT DATE : 8/1/2019 1:26 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_219

WISDOT/CADDS SHEET 42

2

2

GREEN BAY AVE

IH 43 SB

IH 43 NB

928"IH 43"

930"IH 43"

932"IH 43"

934"IH 43"

936"IH 43"

938"IH 43"

940"IH 43"

942"IH 43"

R4000'

R4000'

N

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

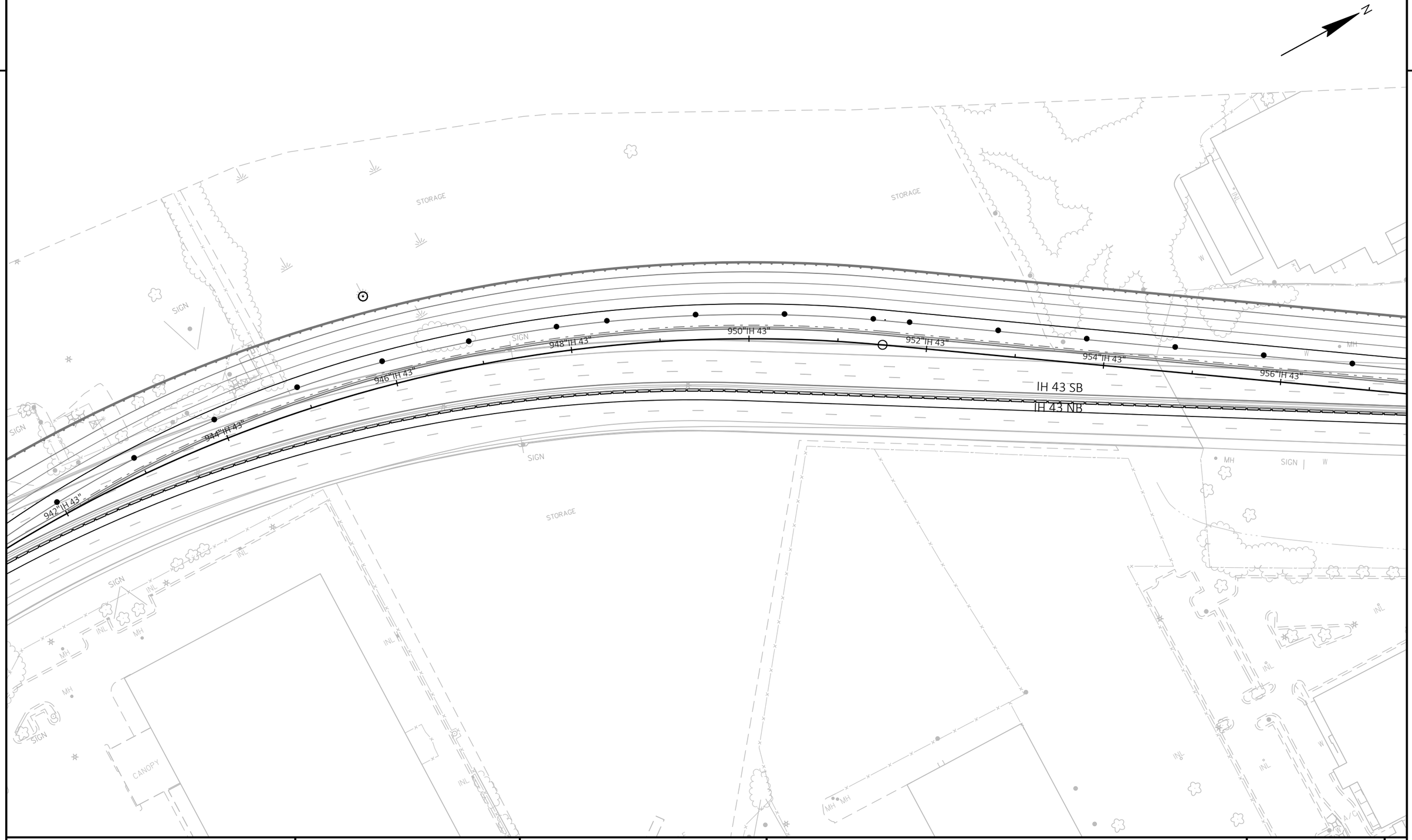
PRE_220

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026002-2w-st

PLOT DATE : 8/1/2019 1:27 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET PRE_221 E

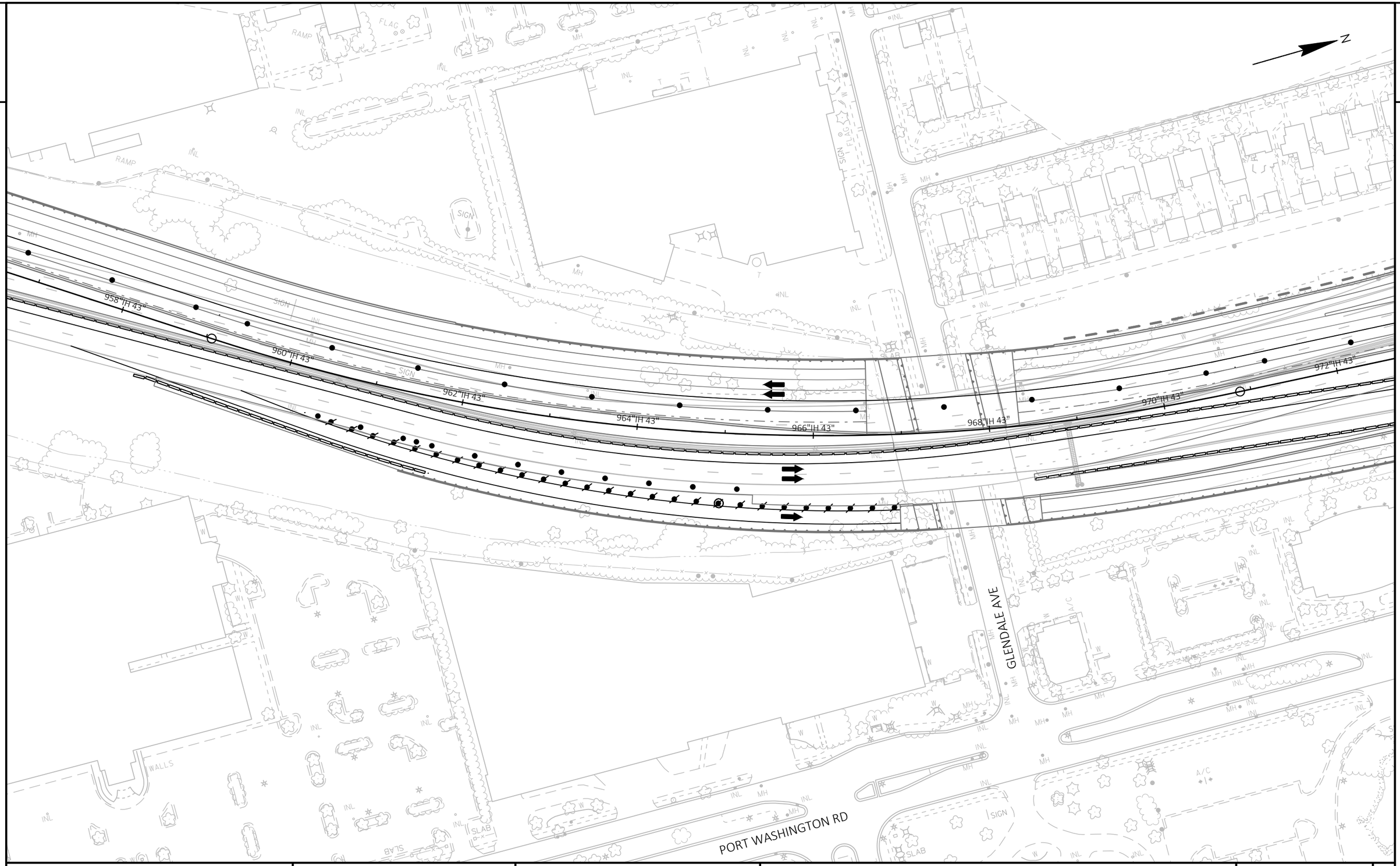
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026003-2w-st

PLOT DATE : 8/1/2019 1:27 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

PRE_222

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026004-2w-st

PLOT DATE : 8/1/2019 1:27 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

R4000'

RIPRAP

SLAB

SIGN

BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

PRE_223

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026005-2w-st

PLOT DATE : 8/1/2019 1:28 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

IH 43 SB

IH 43 NB

R4000'

PORT WASHINGTON RD

GOLF COURSE

GOLF COURSE

SLAB

FLAG

SIGN

INL

MH

W

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

PRE_224

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026006-2w-st

PLOT DATE : 8/1/2019 1:28 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

IH 43 SB

IH 43 NB

RIPRAP

RIPRAP

PORT WASHINGTON RD

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2W	SHEET E

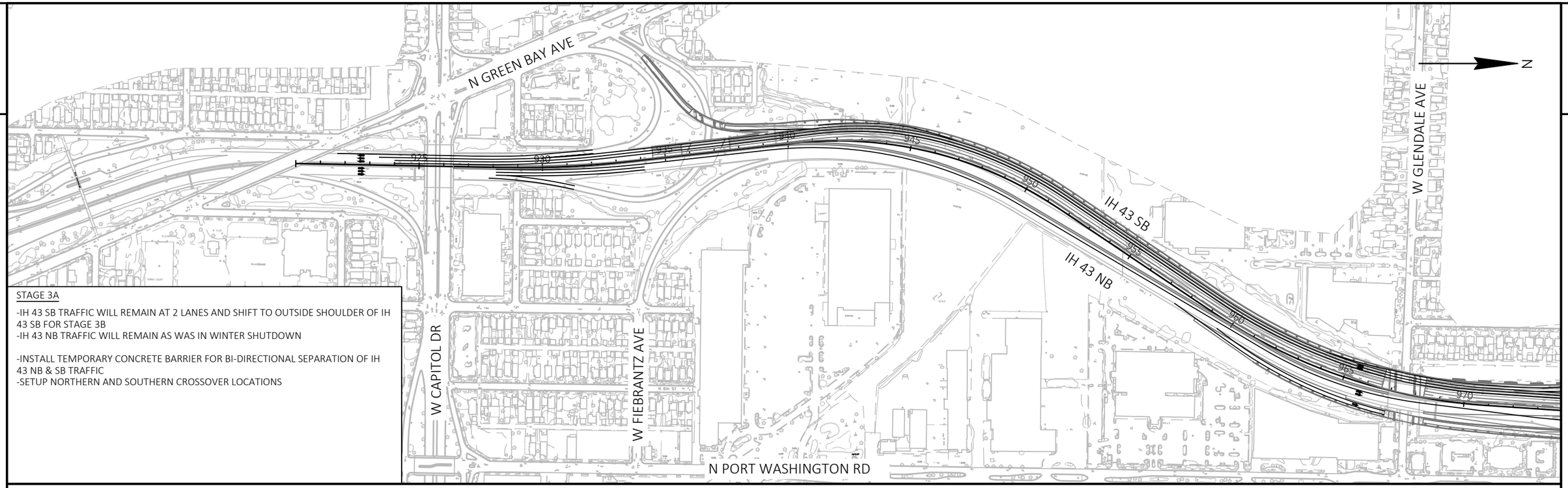
PRE_225

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-2W-3ST.DWG
LAYOUT NAME - 026007-2w-st

PLOT DATE : 8/1/2019 1:28 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

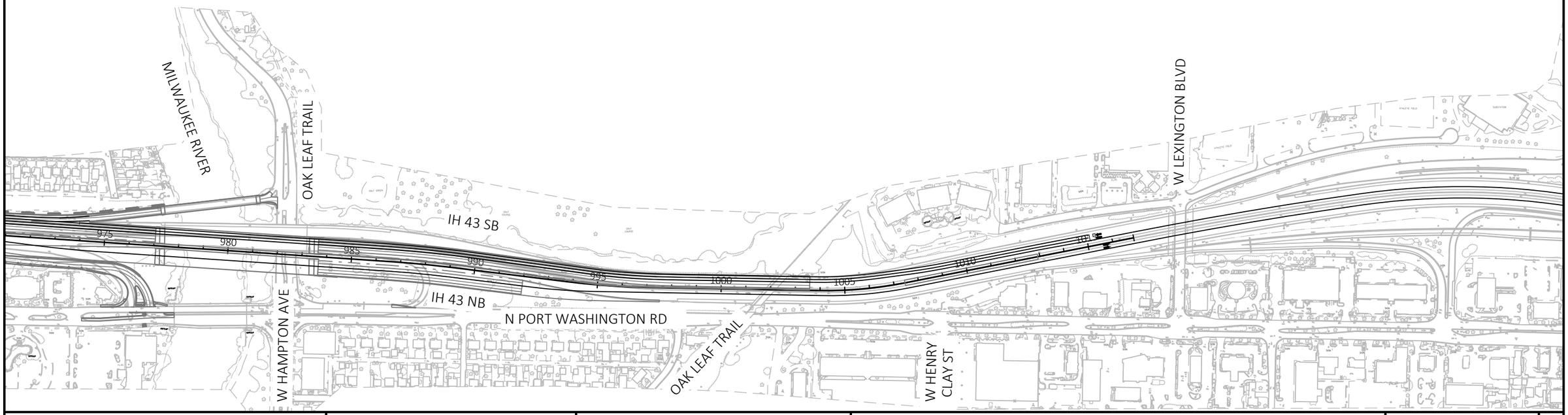
2



STAGE 3A

-IH 43 SB TRAFFIC WILL REMAIN AT 2 LANES AND SHIFT TO OUTSIDE SHOULDER OF IH 43 SB FOR STAGE 3B
-IH 43 NB TRAFFIC WILL REMAIN AS WAS IN WINTER SHUTDOWN

-INSTALL TEMPORARY CONCRETE BARRIER FOR BI-DIRECTIONAL SEPARATION OF IH 43 NB & SB TRAFFIC
-SETUP NORTHERN AND SOUTHERN CROSSOVER LOCATIONS



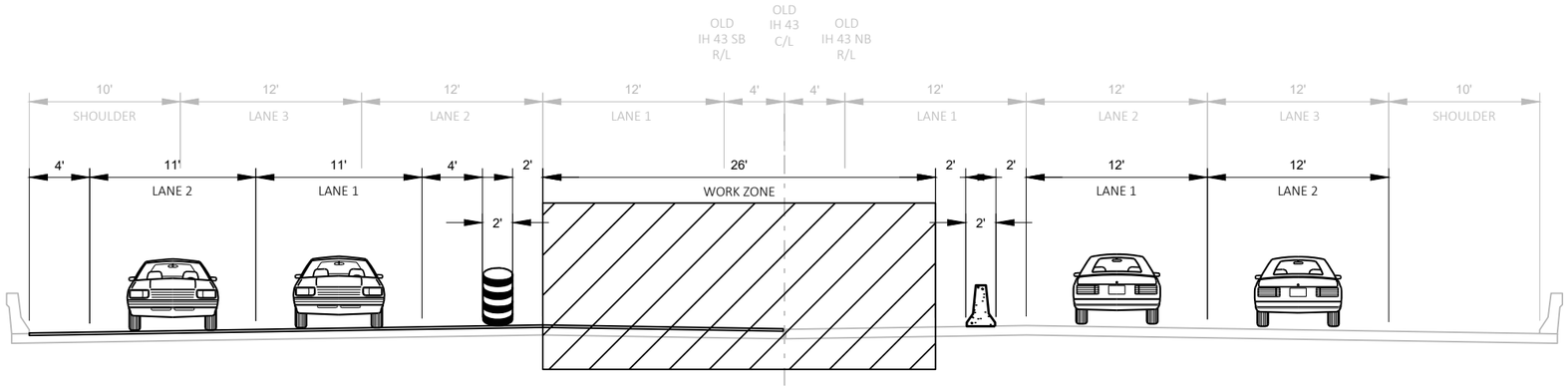
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 3A	SHEET E

PRE_226

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-1OV.DWG
LAYOUT NAME - 026001-3a-ov

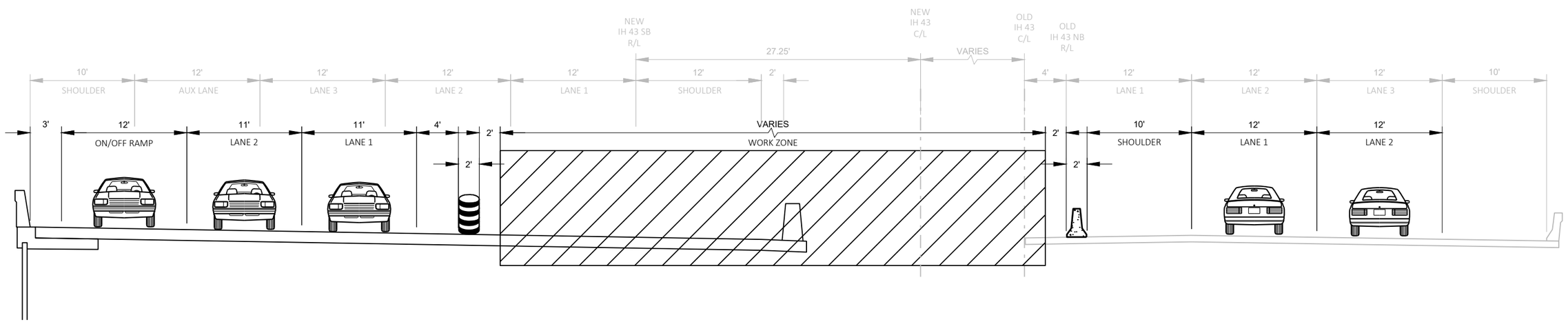
PLOT DATE : 8/1/2019 1:45 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

2



TYPICAL SECTION - STAGE 3A

B-40-116
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 3A

CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)

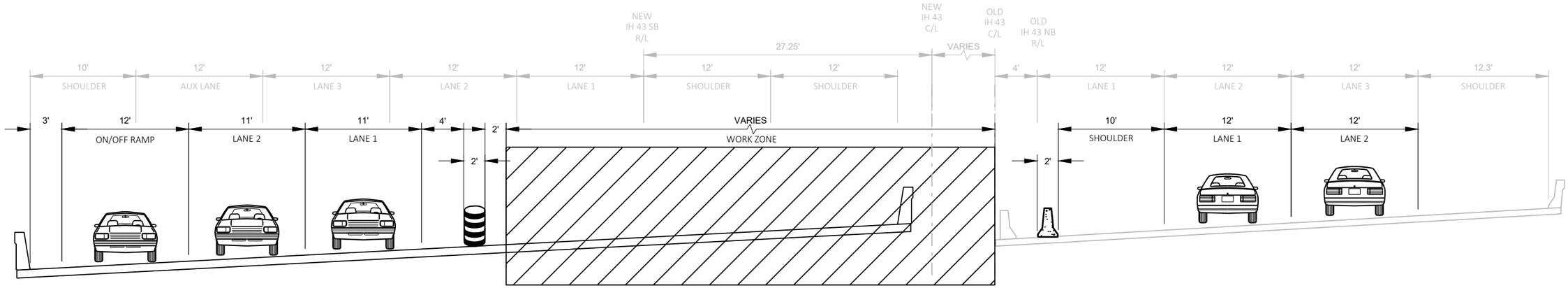
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3A	SHEET E

PRE_227

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-2TS.DWG
LAYOUT NAME - 026001-3a-ts

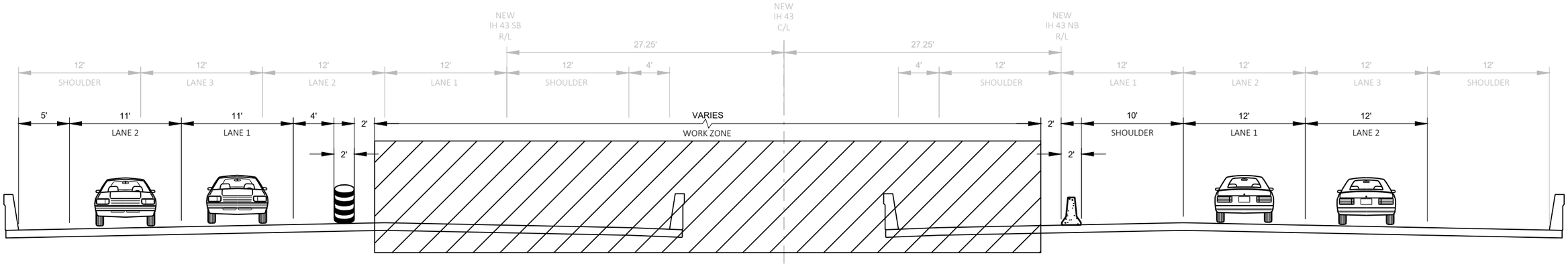
PLOT DATE : 7/31/2019 5:49 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



TYPICAL SECTION - STAGE 3A

GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 3A

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

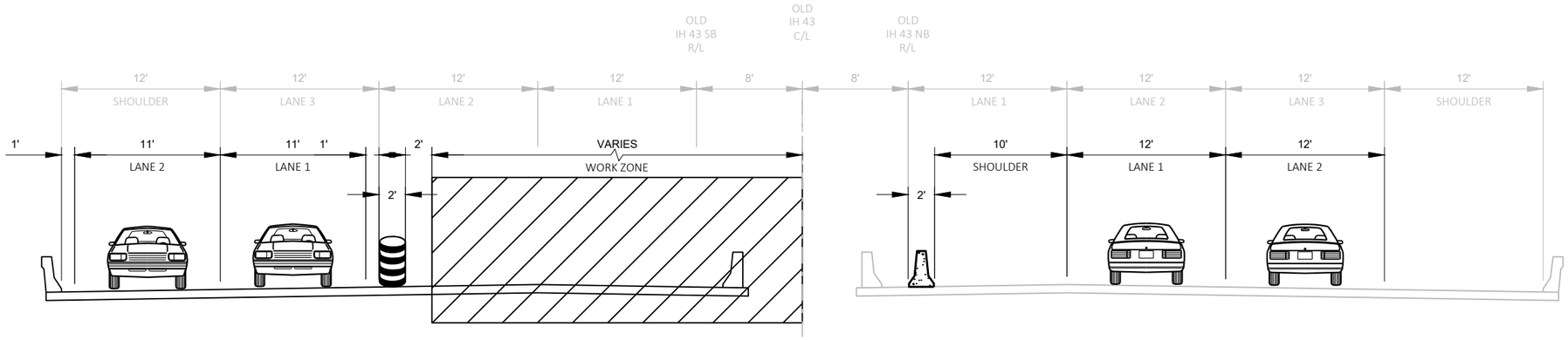
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3A	SHEET E

PRE_228

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-2TS.DWG
LAYOUT NAME - 026002-3a-ts

PLOT DATE : 7/31/2019 5:49 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



TYPICAL SECTION - STAGE 3A

UNDER OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3A	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-2TS.DWG
LAYOUT NAME - 026003-3a-ts

PLOT DATE : 7/31/2019 5:49 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

N 9TH ST

IH 43 SB

IH 43 NB

DR MARTIN LUTHER KING JR DR

N 8TH ST

CAPITOL DR

200' TAPER
INCREASE LANE WIDTH

922"IH 43"

924"IH 43"

926"IH 43"

SIGN

SLAB

FLAG

PLAYGROUND

TENNIS COURT

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

PRE_230

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026001-3a-st

PLOT DATE : 8/1/2019 1:29 PM

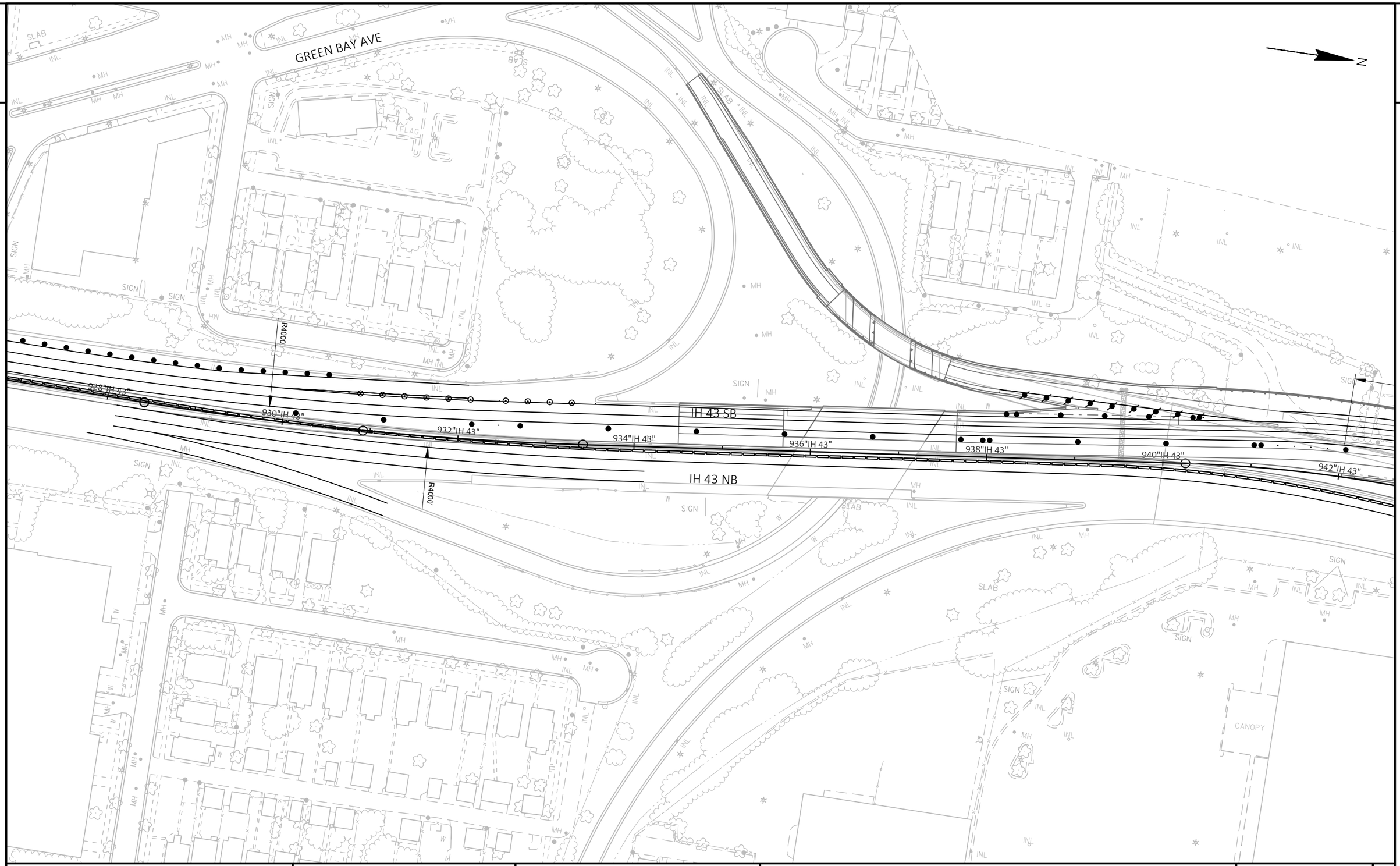
PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



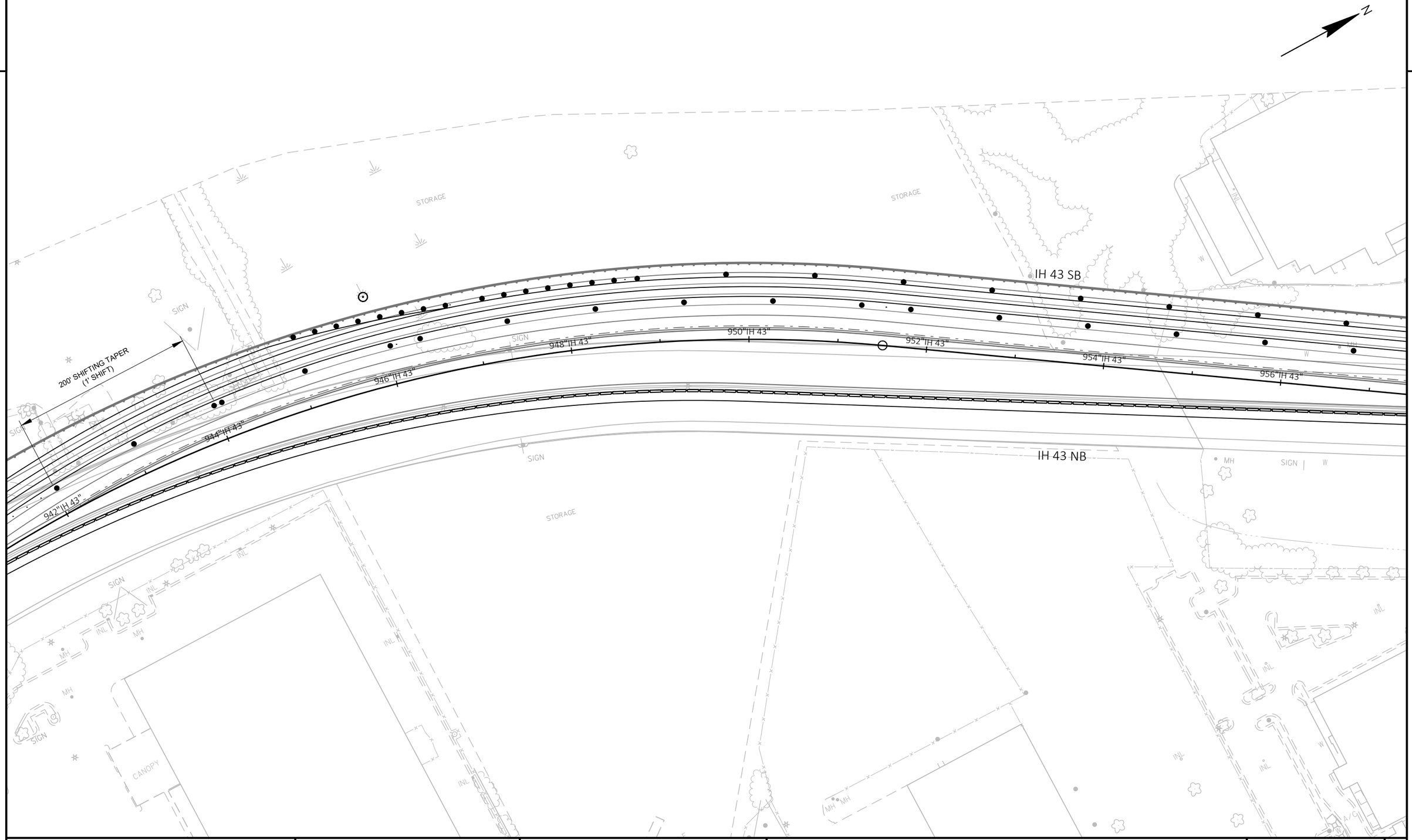
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

PRE_231

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026002-3a-st

PLOT DATE : 8/1/2019 1:30 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

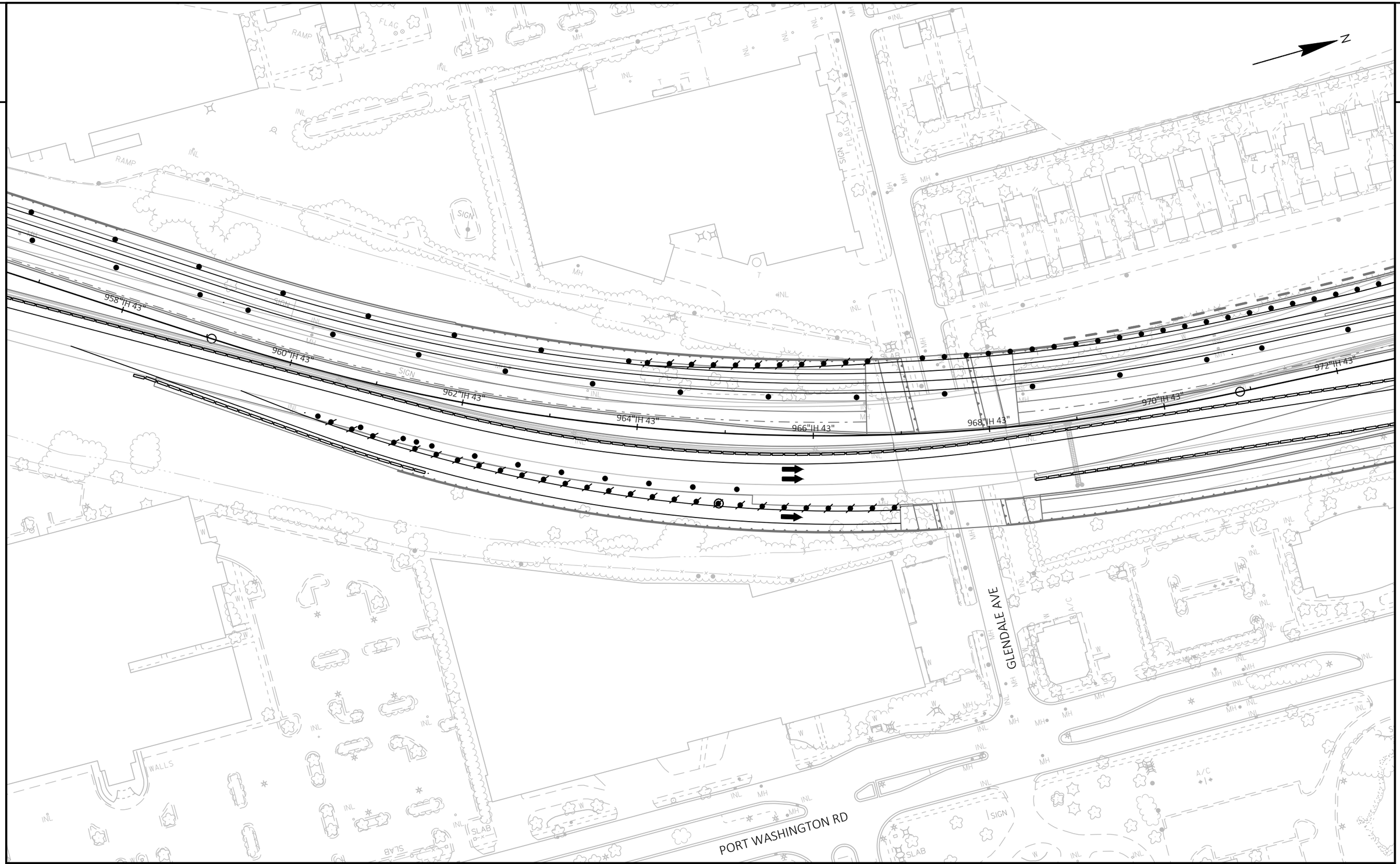
PRE_232

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026003-3a-st

PLOT DATE : 8/1/2019 1:30 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET PRE_233 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026004-3a-st

PLOT DATE : 8/1/2019 1:30 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

RIPRAP

RIPRAP

RIPRAP

RIPRAP

SLAB

SLAB

SLAB

SIGN

SIGN

SIGN

SIGN

SIGN

A/C

A/C

A/C

A/C

INL

MH

W

BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

PRE_234

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026005-3a-st

PLOT DATE : 8/1/2019 1:30 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

GOLF COURSE

GOLF COURSE

R2400'

IH 43 SB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

IH 43 NB

PORT WASHINGTON RD

SLAB

FLAG

SIGN

A/C

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

PRE_235

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026006-3a-st

PLOT DATE : 8/1/2019 1:31 PM

PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

RIPRAP

RIPRAP

R2400'

IH 43 SB

200' TAPER
DECREASE LANE WIDTH

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

IH 43 NB

PORT WASHINGTON RD

SIGN

FLAG

INL

MH

W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET E

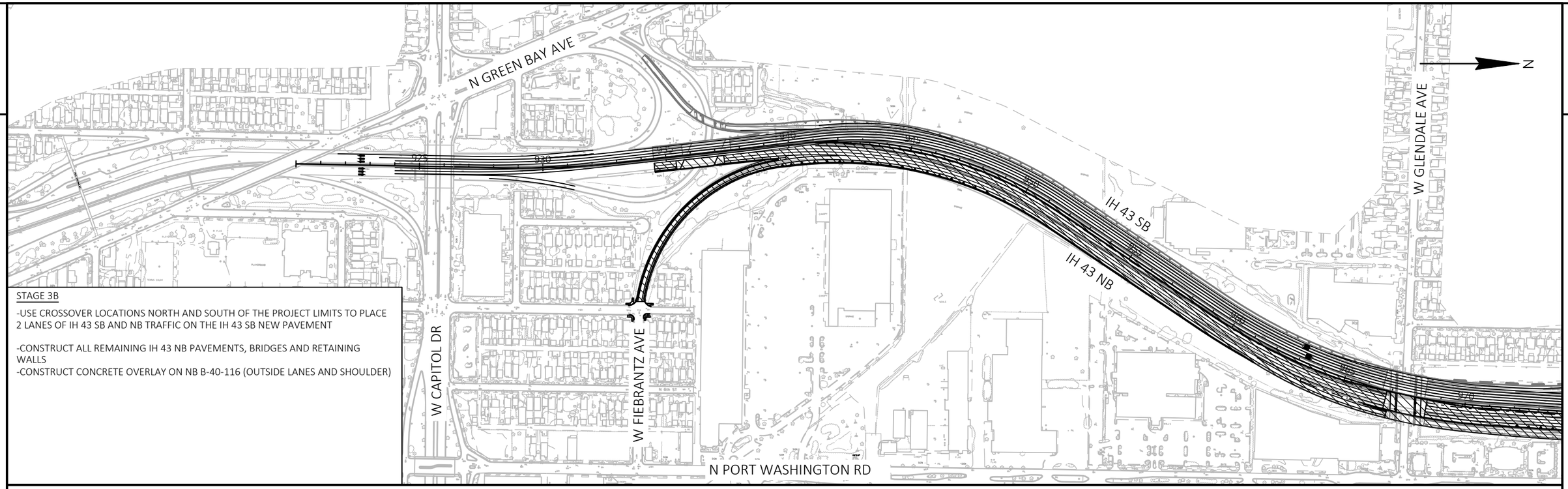
PRE_236

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3A-3ST.DWG
LAYOUT NAME - 026007-3a-st

PLOT DATE : 8/1/2019 1:31 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

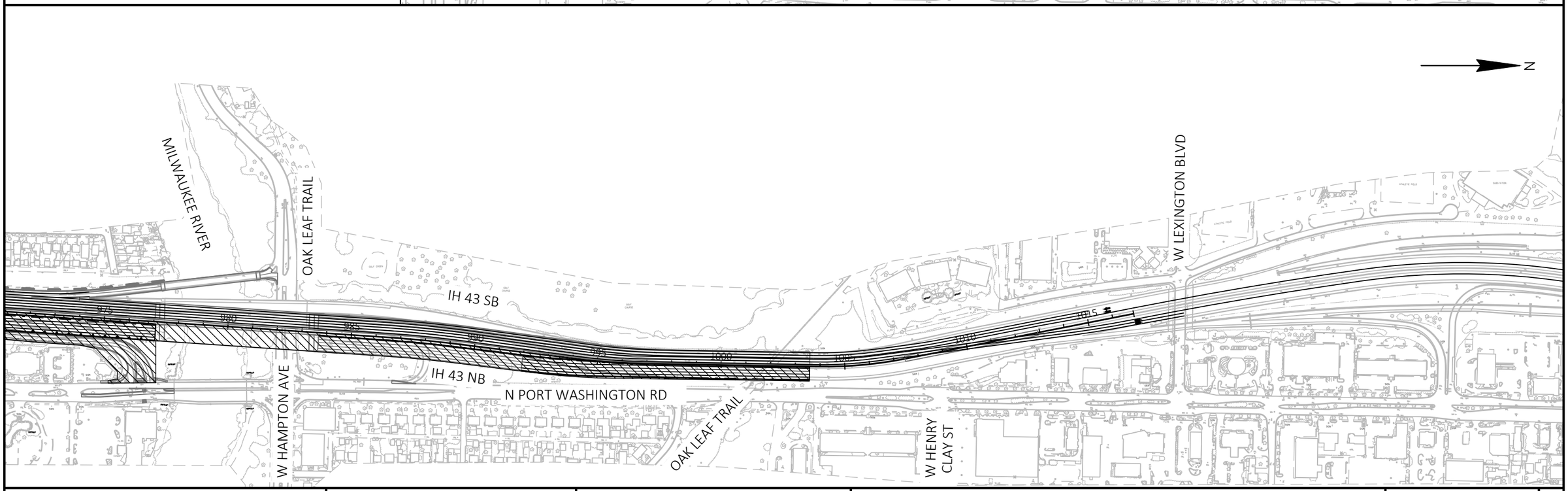
2



STAGE 3B

-USE CROSSOVER LOCATIONS NORTH AND SOUTH OF THE PROJECT LIMITS TO PLACE 2 LANES OF IH 43 SB AND NB TRAFFIC ON THE IH 43 SB NEW PAVEMENT

-CONSTRUCT ALL REMAINING IH 43 NB PAVEMENTS, BRIDGES AND RETAINING WALLS
-CONSTRUCT CONCRETE OVERLAY ON NB B-40-116 (OUTSIDE LANES AND SHOULDER)



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 3B	SHEET E

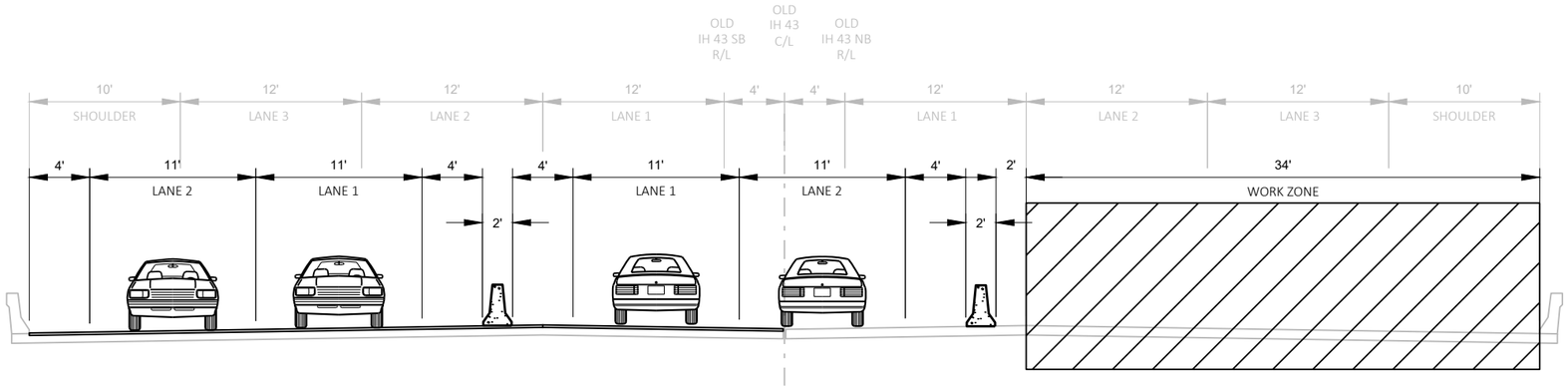
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-1OV.DWG
LAYOUT NAME - 026001-3b-ov

PLOT DATE : 8/1/2019 1:59 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_237

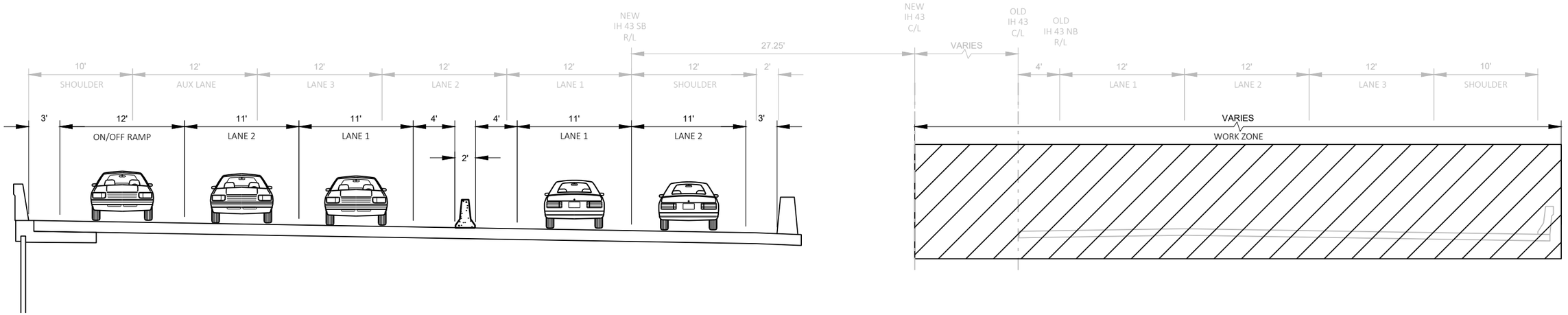
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 3B

B-40-116
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 3B

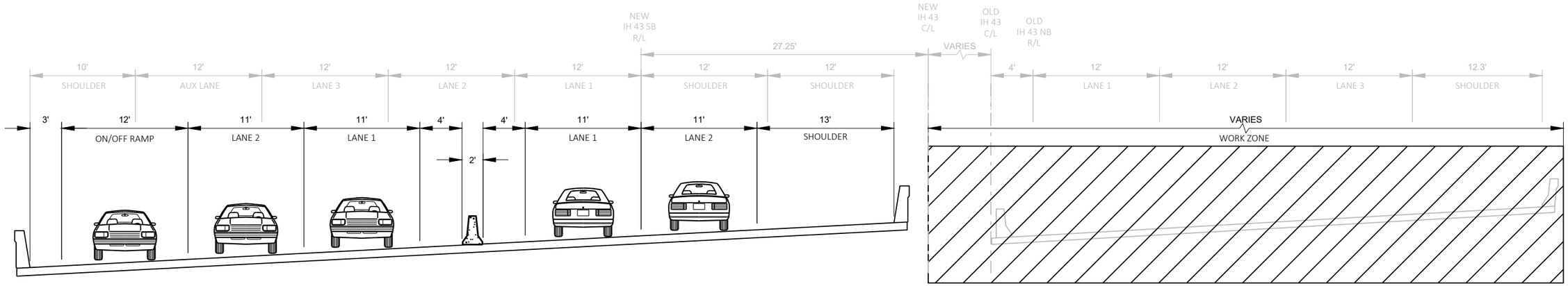
CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3B	SHEET E

PRE_238

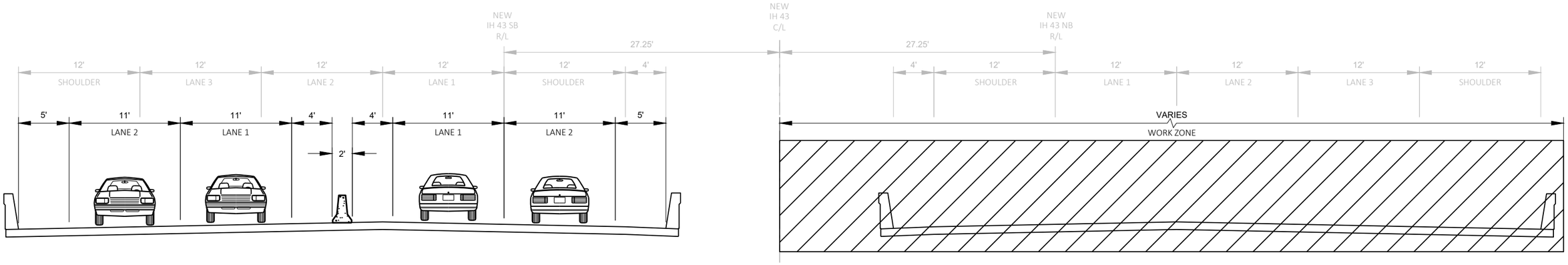
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-2TS.DWG
LAYOUT NAME - 026001-3b-ts

PLOT DATE : 7/31/2019 5:49 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT



TYPICAL SECTION - STAGE 3B

GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 3B

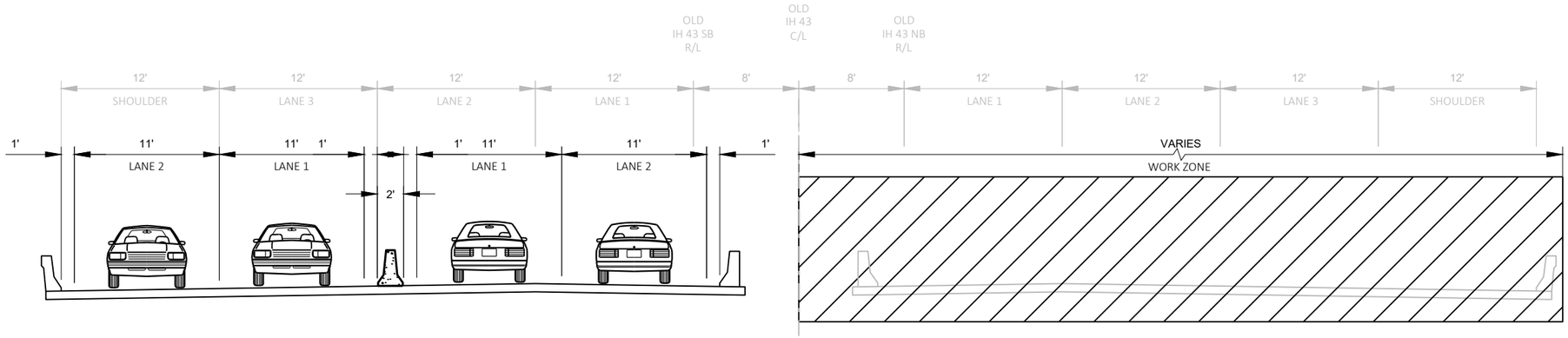
GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3B	SHEET PRE_239 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-2TS.DWG
LAYOUT NAME - 026002-3b-ts

PLOT DATE : 7/31/2019 5:49 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

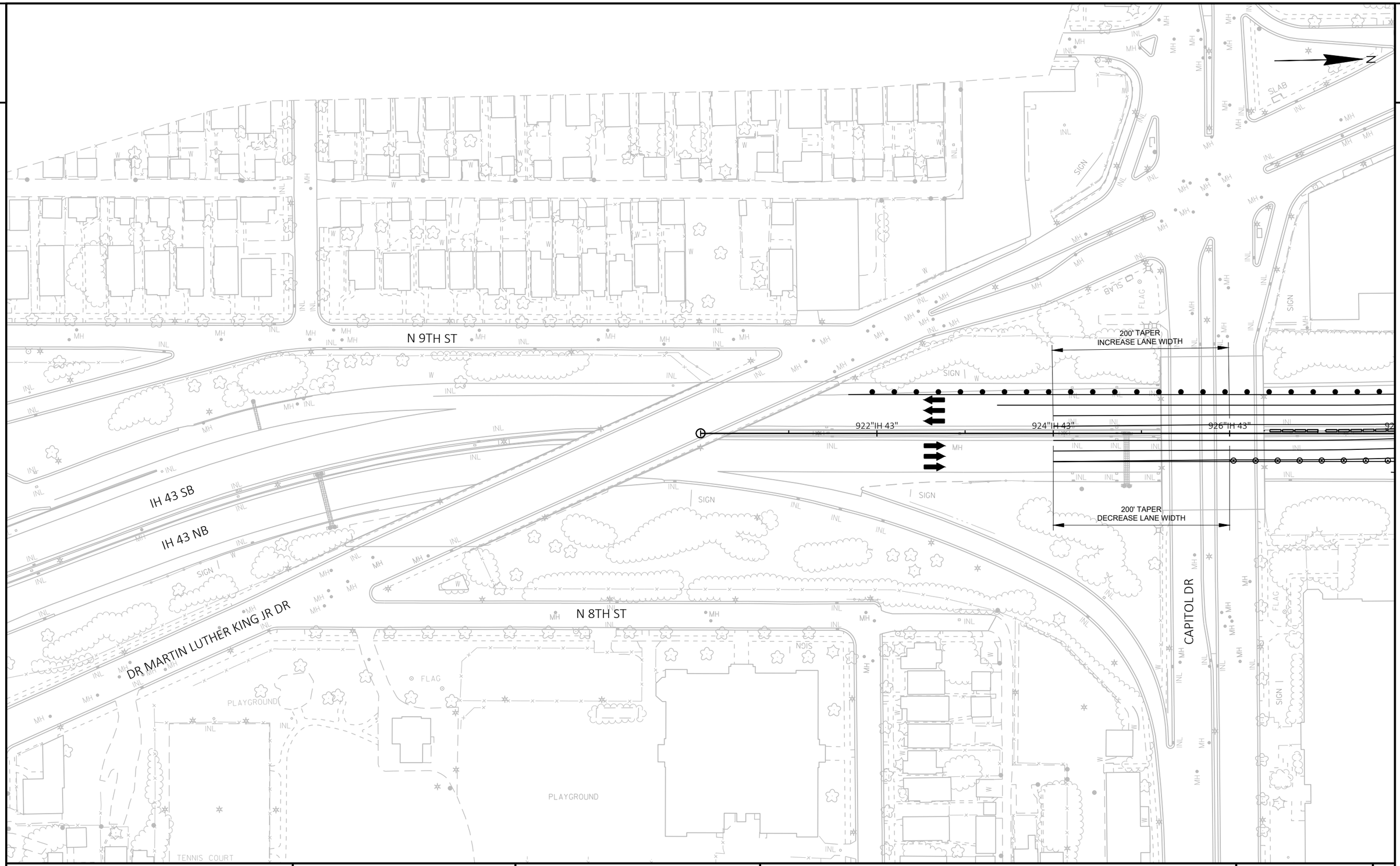
2



TYPICAL SECTION - STAGE 3B

UNDER OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

PRE_241

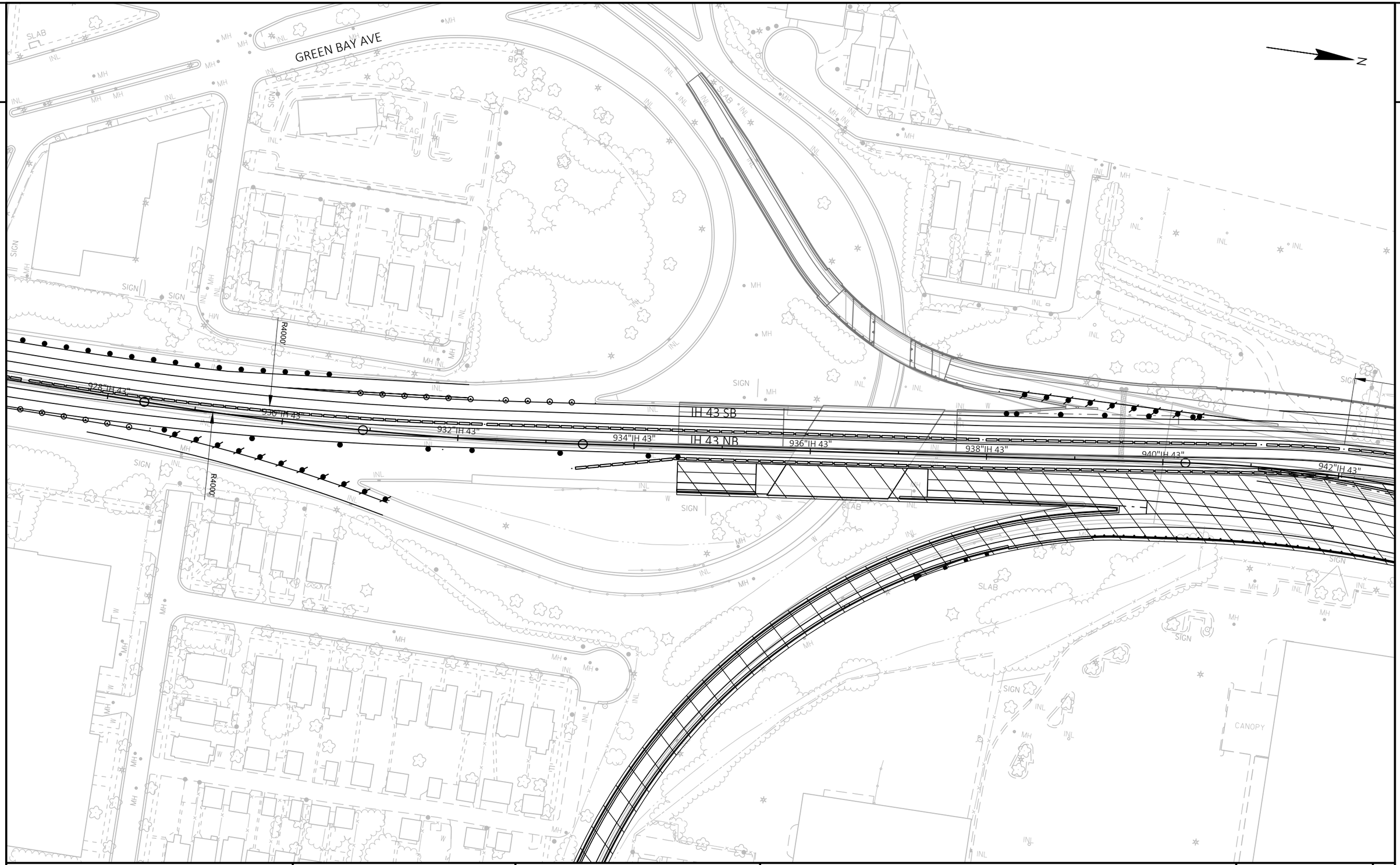
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026001-3b-st

PLOT DATE : 8/1/2019 1:47 PM

PLOT BY : LIMBERATOS, EVAN P

PLOT NAME :

PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

PRE_242

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026002-3b-st

PLOT DATE : 8/1/2019 1:47 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 43 SB

IH 43 NB

200' SHIFTING TAPER
(1' SHIFT)

942"IH 43"

944"IH 43"

946"IH 43"

948"IH 43"

950"IH 43"

952"IH 43"

954"IH 43"

956"IH 43"

STORAGE

SIGN

CANOPY

INL

MH

W

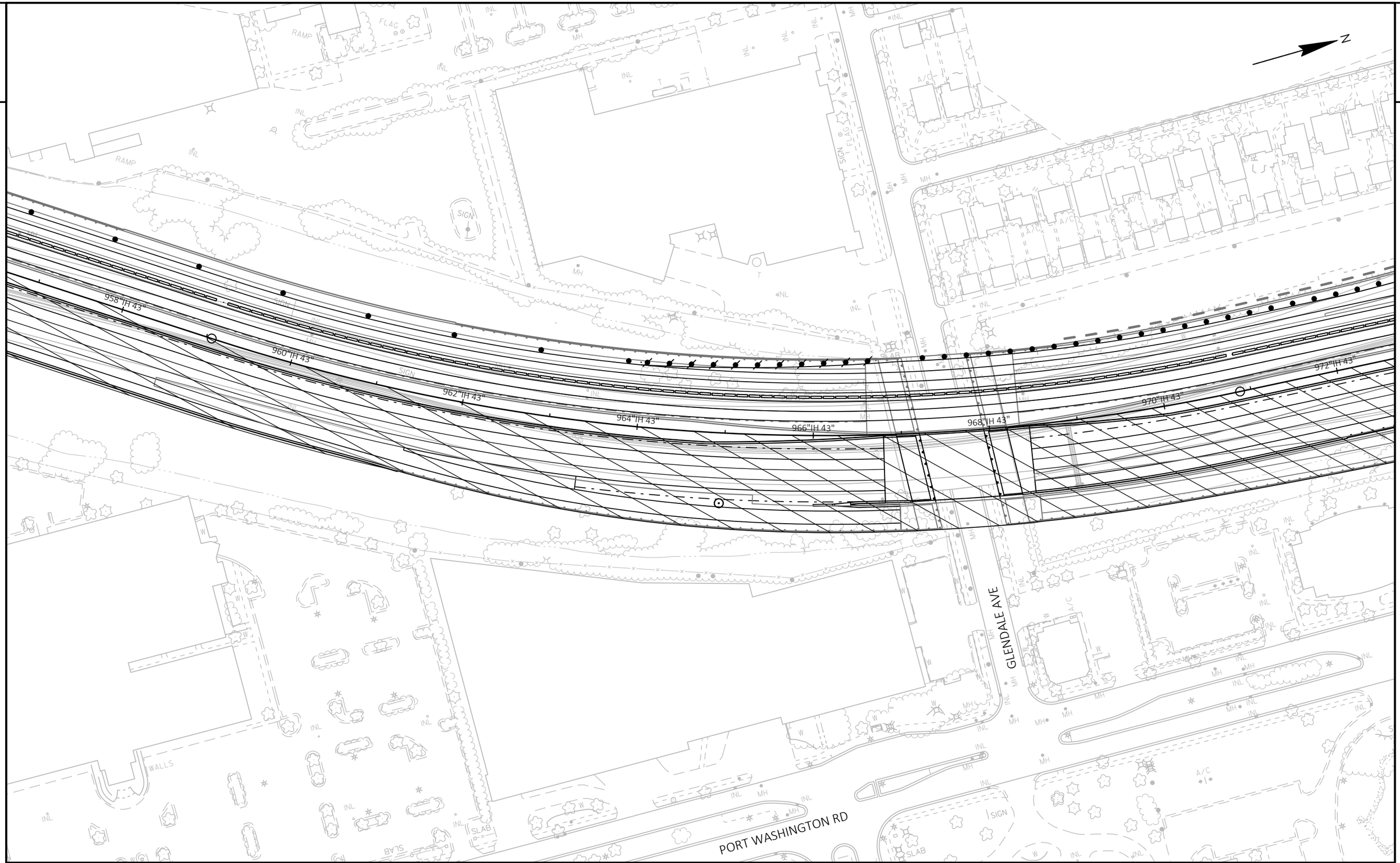
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

PRE_243

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026003-3b-st

PLOT DATE : 8/1/2019 1:47 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

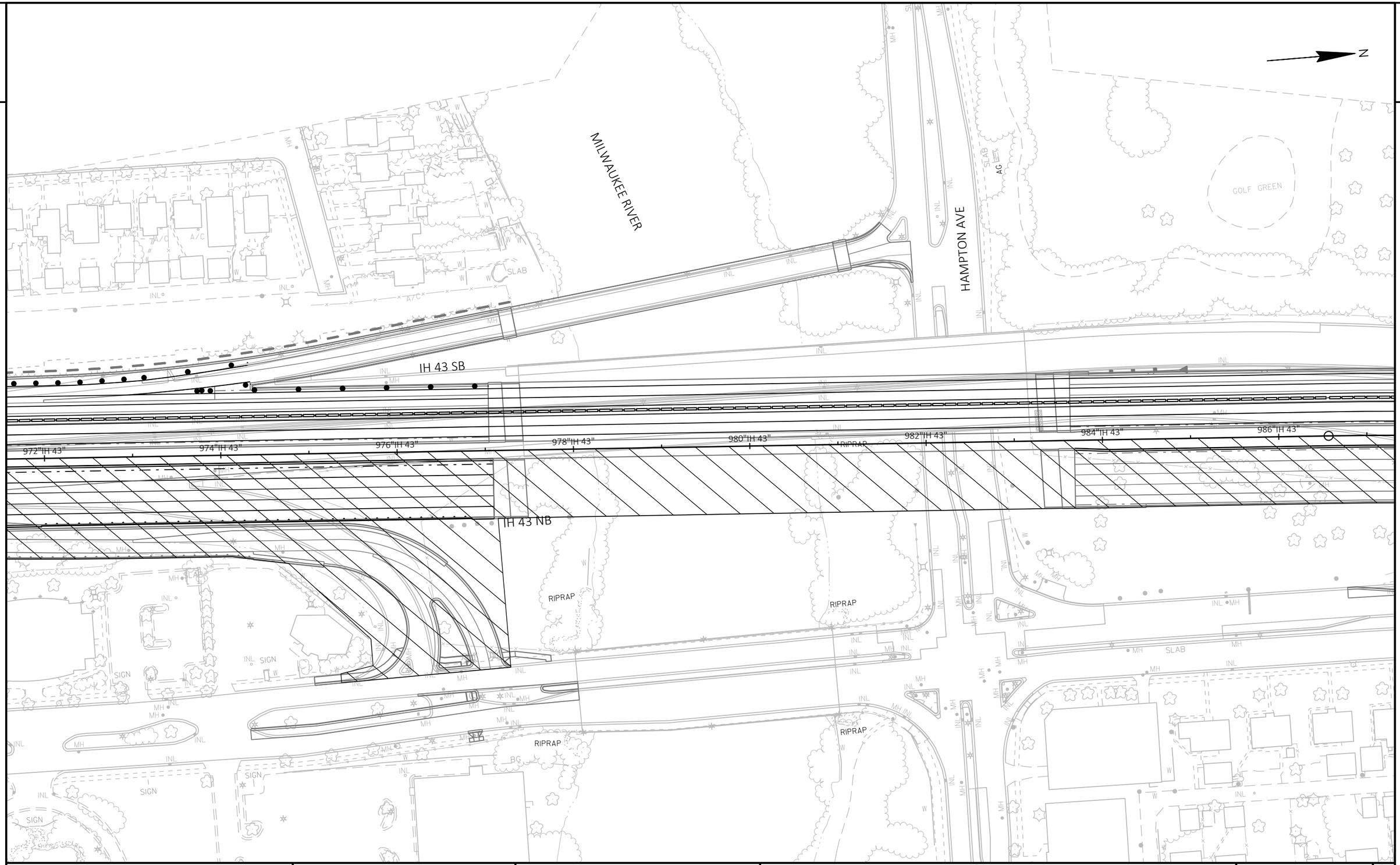
PRE_244

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026004-3b-st

PLOT DATE : 8/1/2019 1:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

PRE_245

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026005-3b-st

PLOT DATE : 8/1/2019 1:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

GOLF COURSE

GOLF COURSE

R2400'

IH 43 SB

IH 43 NB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

PORT WASHINGTON RD

SLAB

SIGN

FLAG

MH

INL

W

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

PRE_246

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026006-3b-st

PLOT DATE : 8/1/2019 1:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 43 SB

IH 43 NB

PORT WASHINGTON RD

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

R2400'

R4000'

200' TAPER
DECREASE LANE WIDTH

RIPRAP

RIPRAP

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

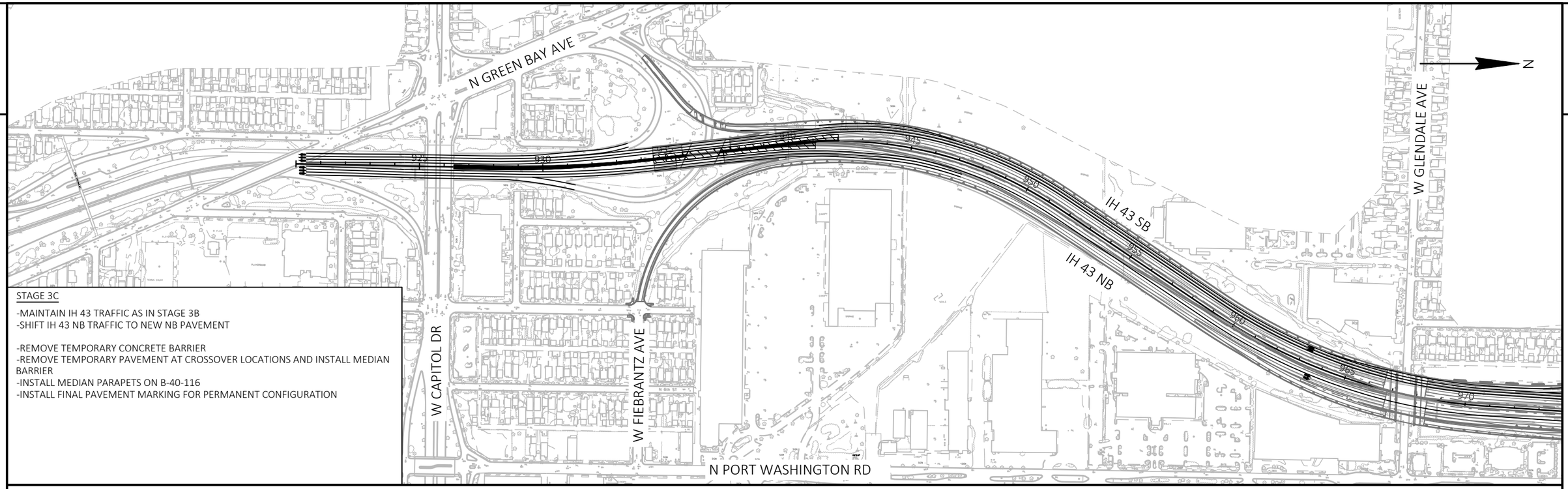
PRE_247

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3B-3ST.DWG
LAYOUT NAME - 026007-3b-st

PLOT DATE : 8/1/2019 1:48 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

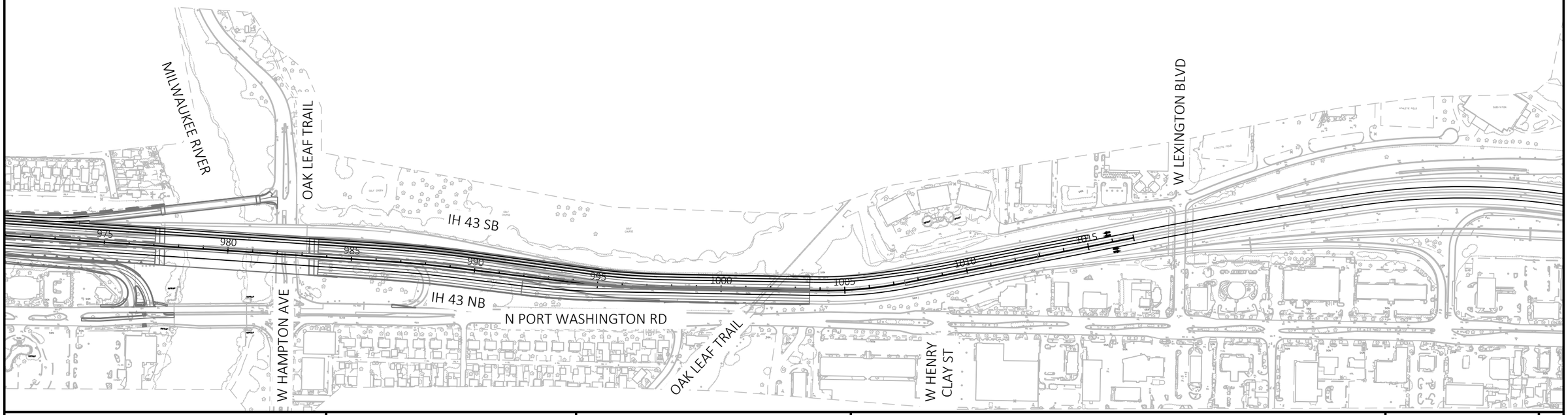
2



STAGE 3C

-MAINTAIN IH 43 TRAFFIC AS IN STAGE 3B
-SHIFT IH 43 NB TRAFFIC TO NEW NB PAVEMENT

-REMOVE TEMPORARY CONCRETE BARRIER
-REMOVE TEMPORARY PAVEMENT AT CROSSOVER LOCATIONS AND INSTALL MEDIAN BARRIER
-INSTALL MEDIAN PARAPETS ON B-40-116
-INSTALL FINAL PAVEMENT MARKING FOR PERMANENT CONFIGURATION



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW STAGE 3C	SHEET E

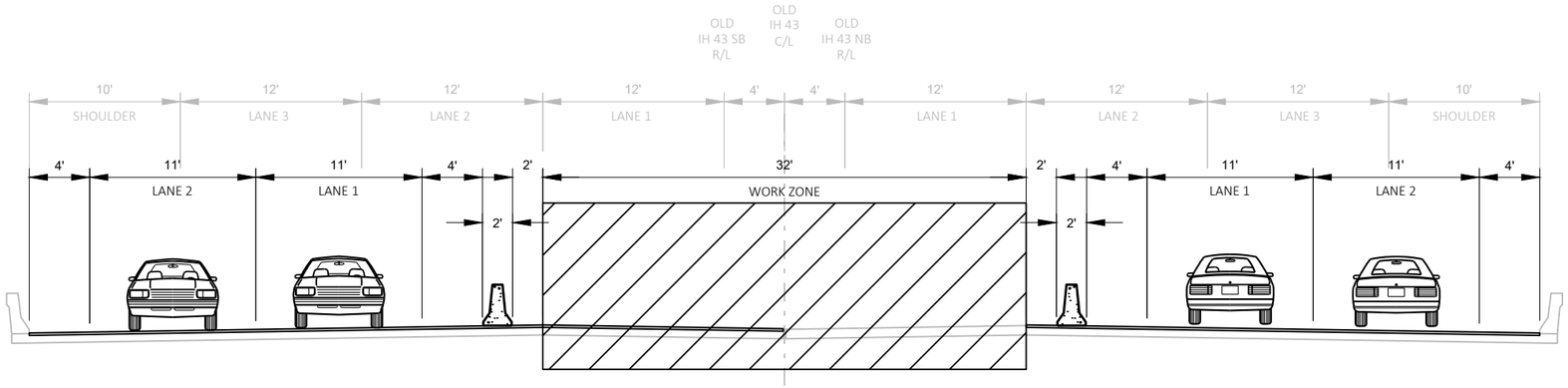
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-1OV.DWG
LAYOUT NAME - 026001-3c-ov

PLOT DATE : 8/1/2019 2:11 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN: 400 FT

PRE_248

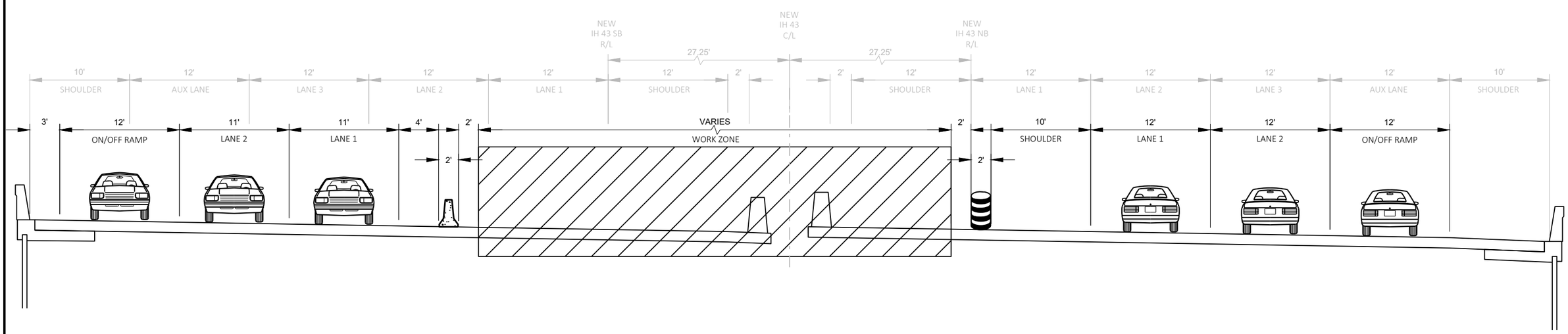
WISDOT/CADDS SHEET 44

2



TYPICAL SECTION - STAGE 3C

B-40-116
(NO DAYTIME LANE CLOSURES)



TYPICAL SECTION - STAGE 3C

CAPITOL DR TO GLENDALE AVE
(NO DAYTIME LANE CLOSURES)

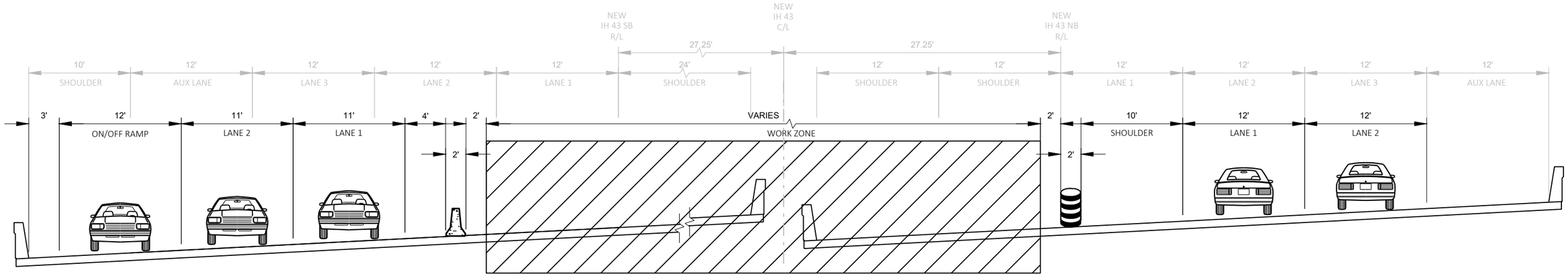
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3C	SHEET E

PRE_249

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-2TS.DWG
LAYOUT NAME - 026001-3c-ts

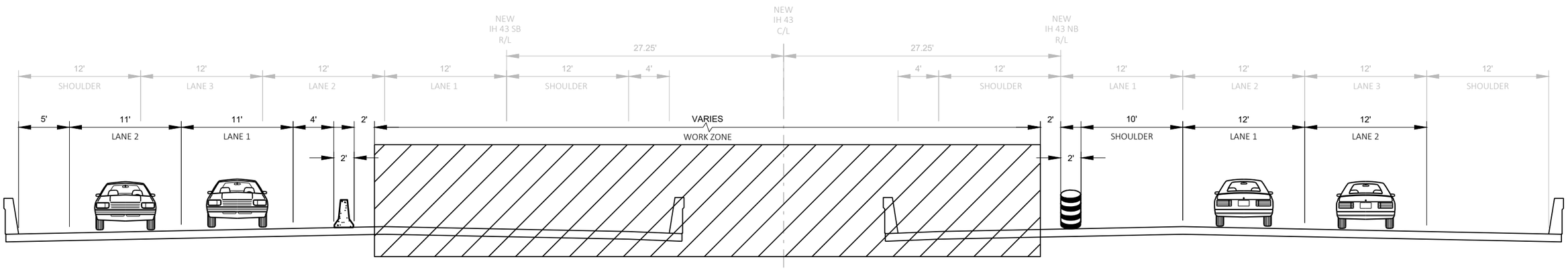
PLOT DATE : 7/31/2019 5:50 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



TYPICAL SECTION - STAGE 3C

GLENDALE AVE
(NO DAYTIME LANE CLOSURES)



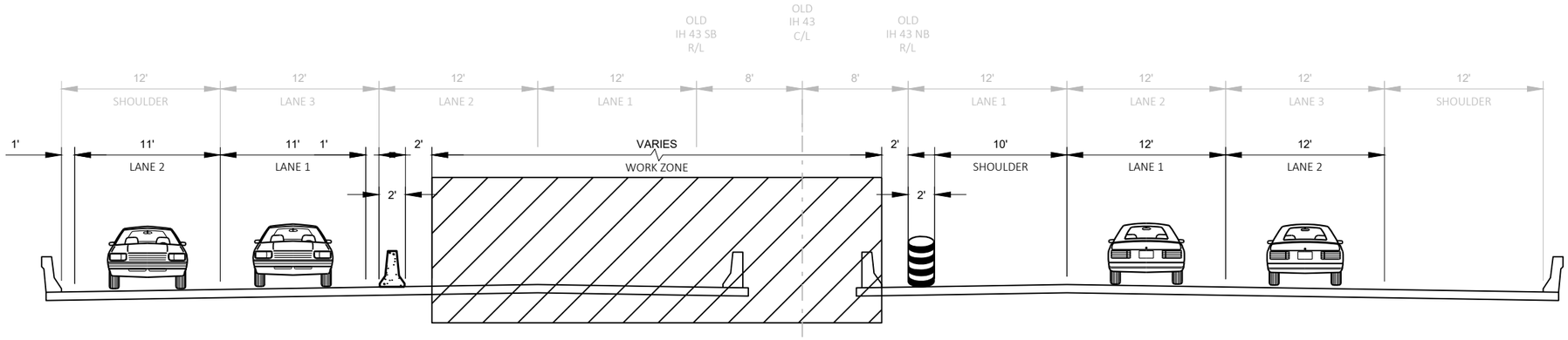
TYPICAL SECTION - STAGE 3C

GLENDALE AVE TO OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - TYPICAL SECTION STAGE 3C	SHEET PRE_250 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-2TS.DWG
LAYOUT NAME - 026002-3c-ts

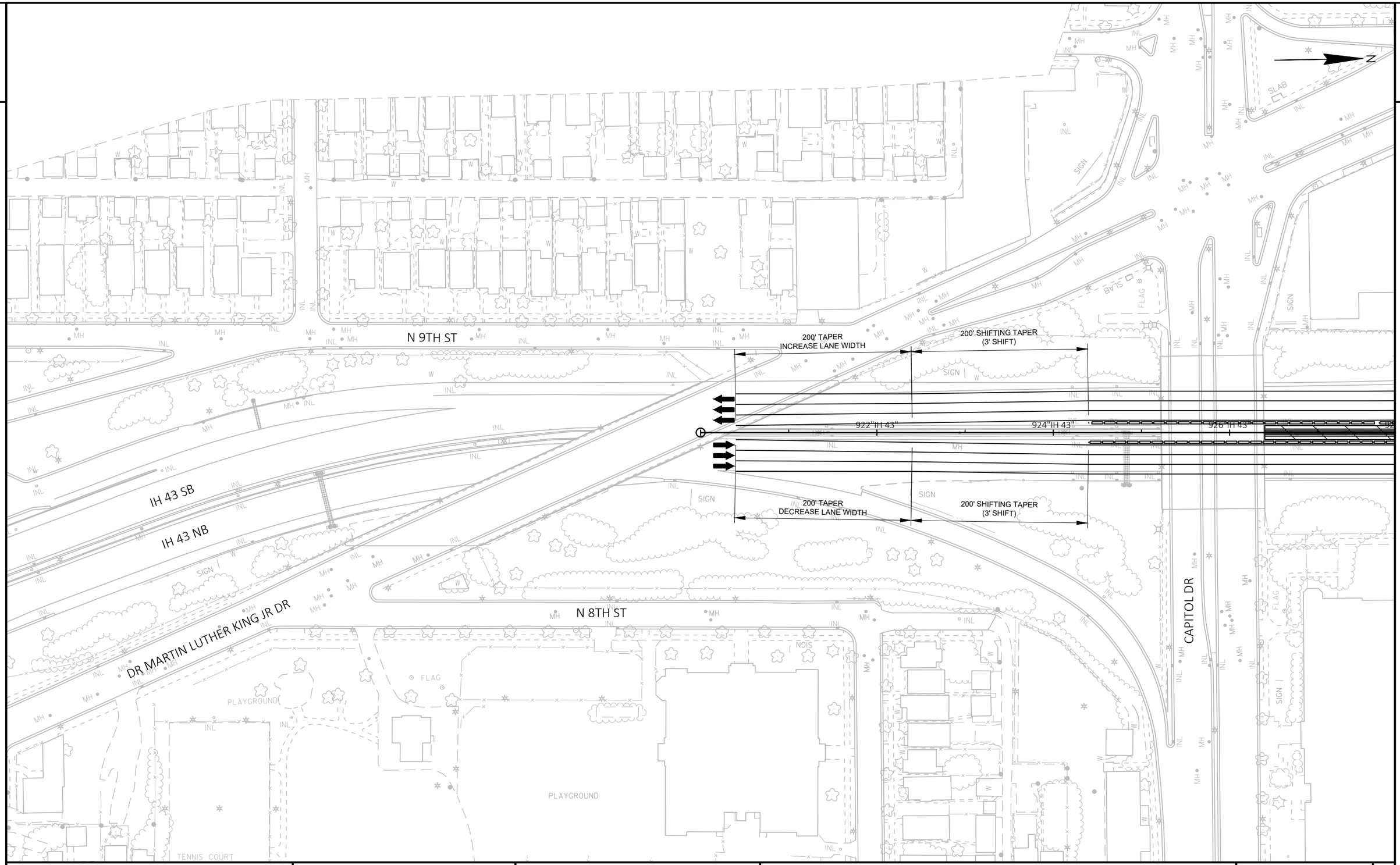
PLOT DATE : 7/31/2019 5:50 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:10 FT



TYPICAL SECTION - STAGE 3C

UNDER OAK LEAF TRAIL STRUCTURE
(NO DAYTIME LANE CLOSURES)

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_252

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026001-3c-st

PLOT DATE : 8/1/2019 1:50 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

GREEN BAY AVE

IH 43 SB

IH 43 NB

R4000'

R4000'

930"IH 43"

932"IH 43"

934"IH 43"

936"IH 43"

938"IH 43"

940"IH 43"

942"IH 43"

SLAB

SIGN

FLAG

CANOPY

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_253

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026002-3c-st

PLOT DATE : 8/1/2019 1:50 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

IH 43 SB

IH 43 NB

200' SHIFTING TAPER
(1' SHIFT)

942"IH 43"

944"IH 43"

946"IH 43"

948"IH 43"

950"IH 43"

952"IH 43"

954"IH 43"

956"IH 43"

STORAGE

SIGN

MH

INL

CANOPY

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

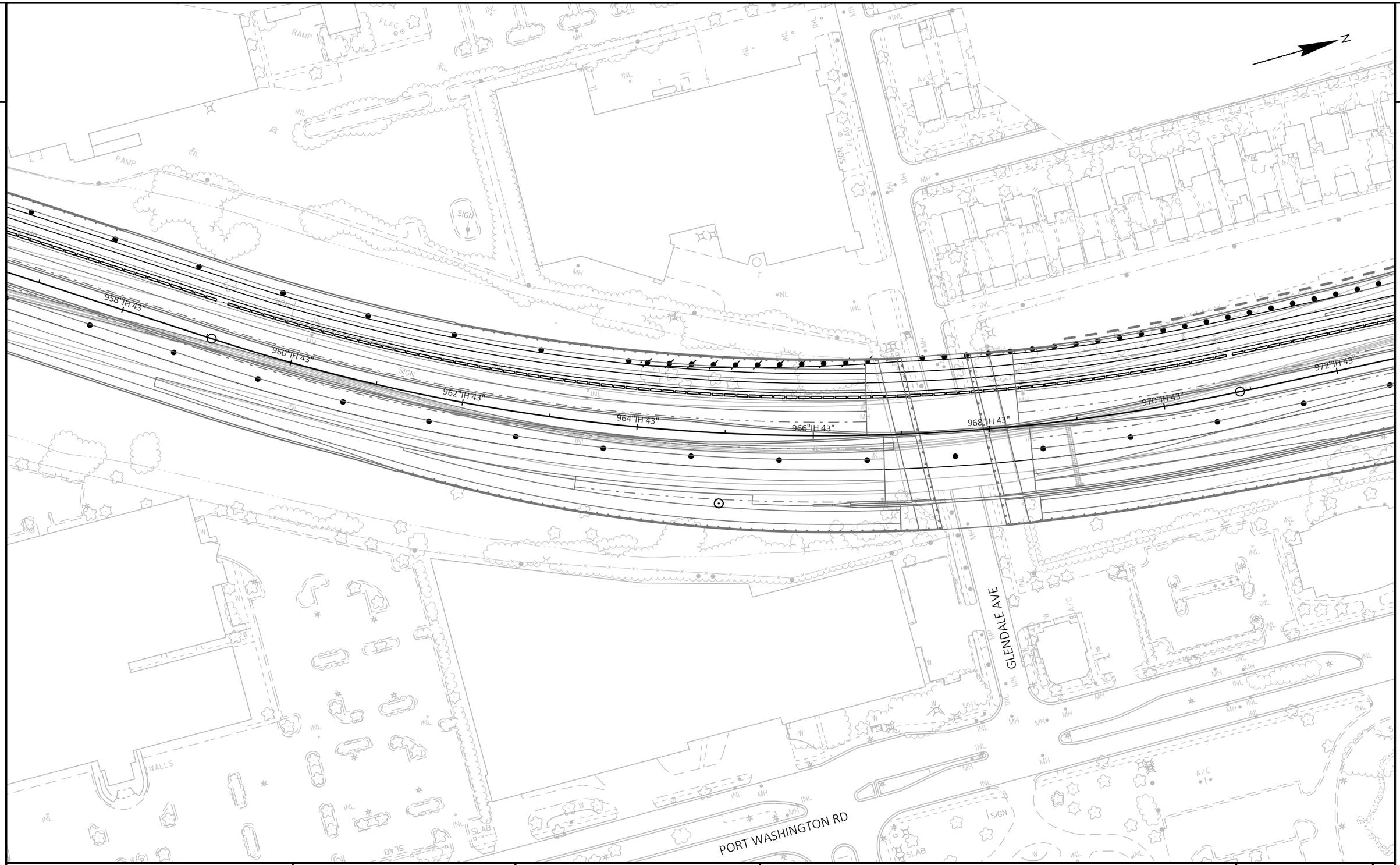
PRE_254

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026003-3c-st

PLOT DATE : 8/1/2019 1:50 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_255

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026004-3c-st

PLOT DATE : 8/1/2019 1:51 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MILWAUKEE RIVER

HAMPTON AVE

GOLF GREEN

IH 43 SB

IH 43 NB

972"IH 43"

974"IH 43"

976"IH 43"

978"IH 43"

980"IH 43"

982"IH 43"

984"IH 43"

986"IH 43"

RIPRAP

SLAB

SIGN

BG

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_256

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026005-3c-st

PLOT DATE : 8/1/2019 1:51 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

GOLF COURSE

GOLF COURSE

R2400'

IH 43 SB

988"IH 43"

990"IH 43"

992"IH 43"

994"IH 43"

996"IH 43"

998"IH 43"

1000"IH 43"

1002"IH 43"

IH 43 NB

PORT WASHINGTON RD

SLAB

SIGN

FLAG

INL

MH

W

A/C

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_257

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026006-3c-st

PLOT DATE : 8/1/2019 1:51 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

RIPRAP

RIPRAP

R2400'

1002"IH 43"

1004"IH 43"

1006"IH 43"

1008"IH 43"

1010"IH 43"

1012"IH 43"

1014"IH 43"

1016"IH 43"

IH 43 SB

200' TAPER
DECREASE LANE WIDTH

IH 43 NB

PORT WASHINGTON RD

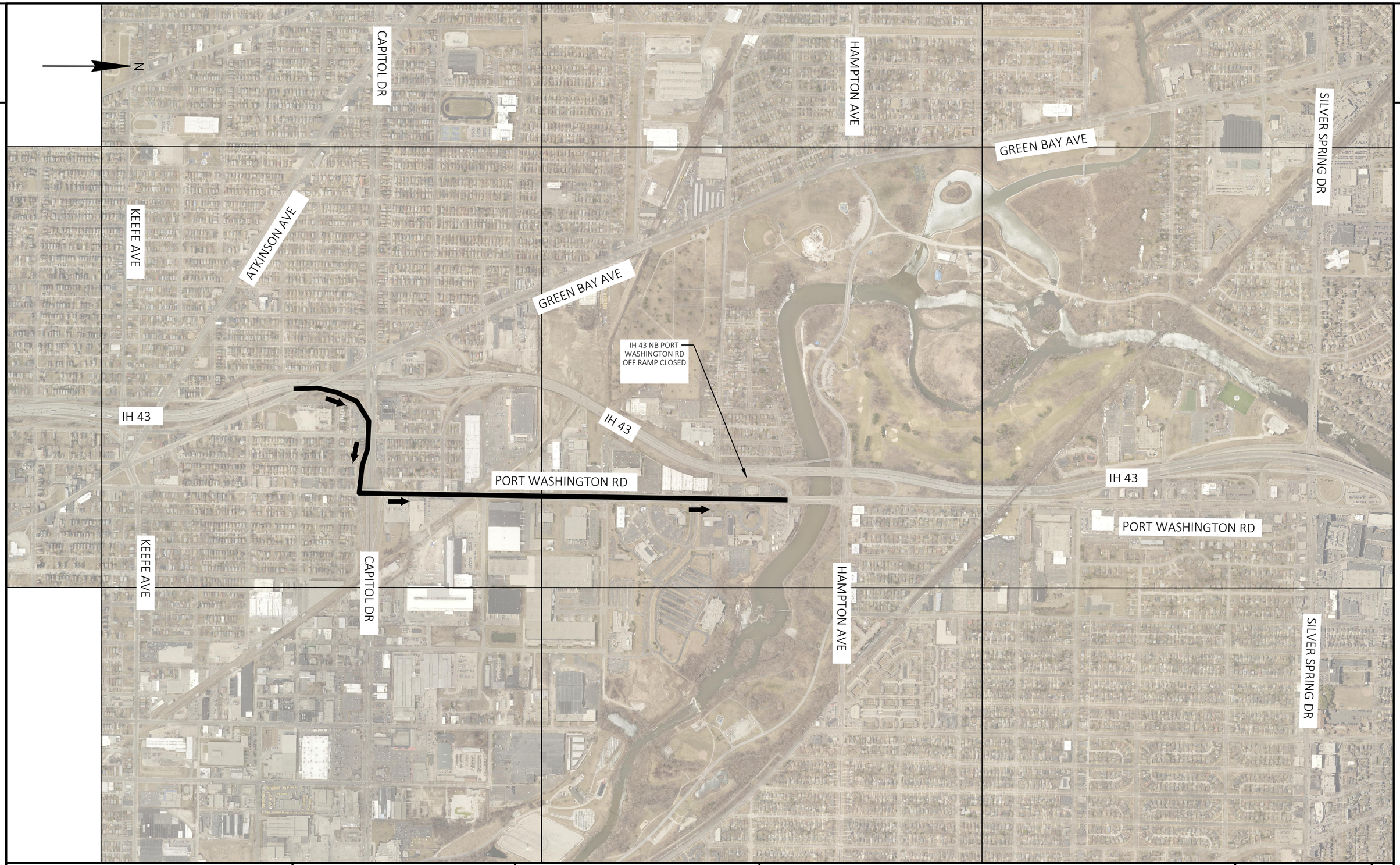
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3C	SHEET E

PRE_258

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\026001-3C-3ST.DWG
LAYOUT NAME - 026007-3c-st

PLOT DATE : 8/1/2019 1:51 PM PLOT BY : LIMBERATOS, EVAN P PLOT NAME : PLOT SCALE : 1 IN:100 FT

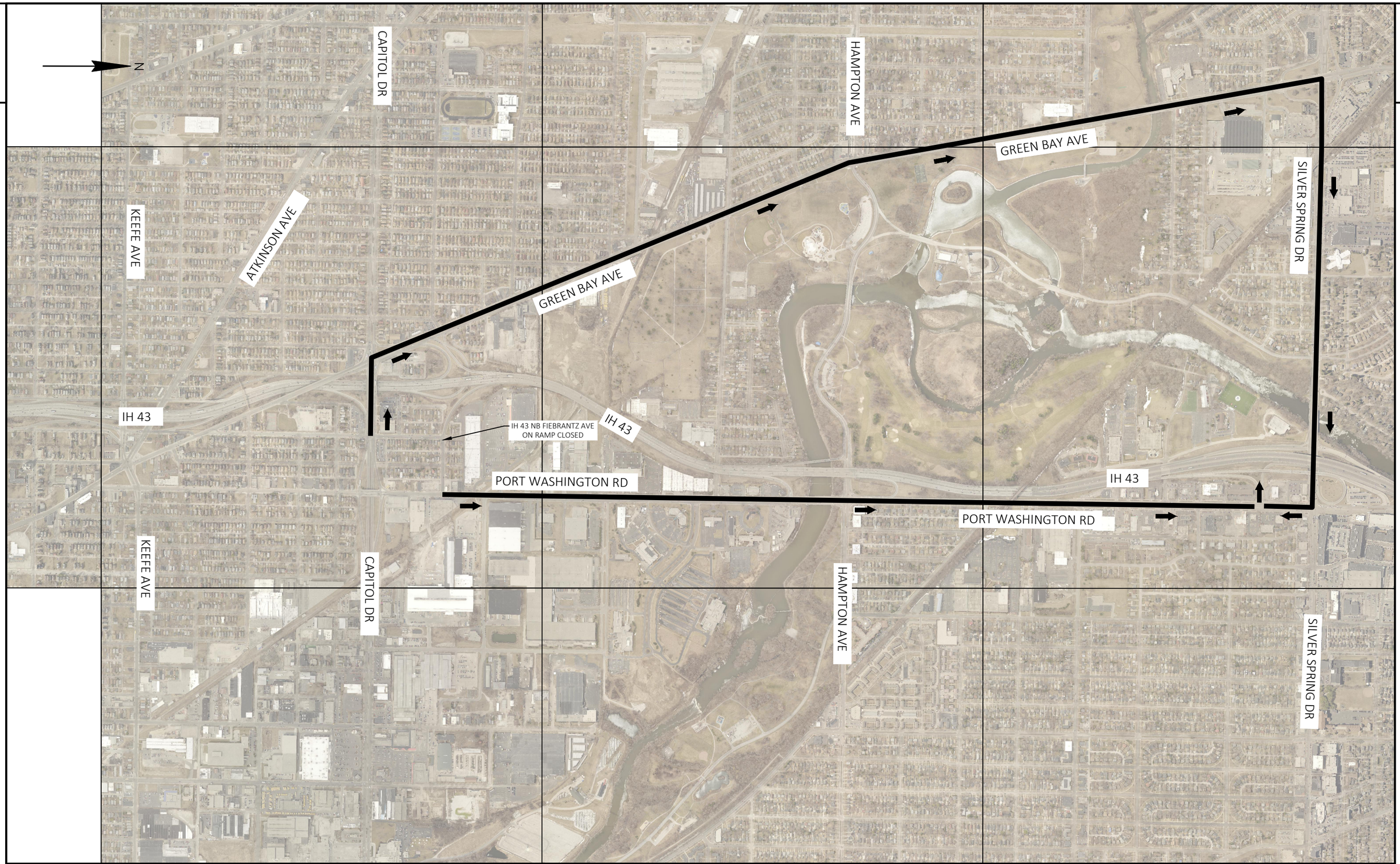
WISDOT/CADDS SHEET 42



2

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 NB PORT WASHINGTON RD OFF RAMP	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027001-dt
PLOT DATE : 3/28/2019 10:33 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 NB FIEBRANTZ AVE ON RAMP	SHEET E

PRE_260

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027002-dt

PLOT DATE : 3/28/2019 10:33 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

2

N

CAPITOL DR

ATKINSON AVE

KEEFE AVE

IH 43 NB FULL
FREEWAY CLOSURE

IH 43

GREEN BAY AVE

HAMPTON AVE

GREEN BAY AVE

SILVER SPRING DR

IH 43

PORT WASHINGTON RD

KEEFE AVE

CAPITOL DR

HAMPTON AVE

PORT WASHINGTON RD

SILVER SPRING DR

2

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 NB FULL FREEWAY CLOSURE	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 3/28/2019 10:33 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

2

2

N

CAPITOL DR

ATKINSON AVE

HAMPTON AVE

GREEN BAY AVE

GREEN BAY AVE

SILVER SPRING DR

IH 43 SB
GREEN BAY AVE
OFF RAMP CLOSED

IH 43

PORT WASHINGTON RD

IH 43

PORT WASHINGTON RD

CAPITOL DR

HAMPTON AVE

SILVER SPRING DR

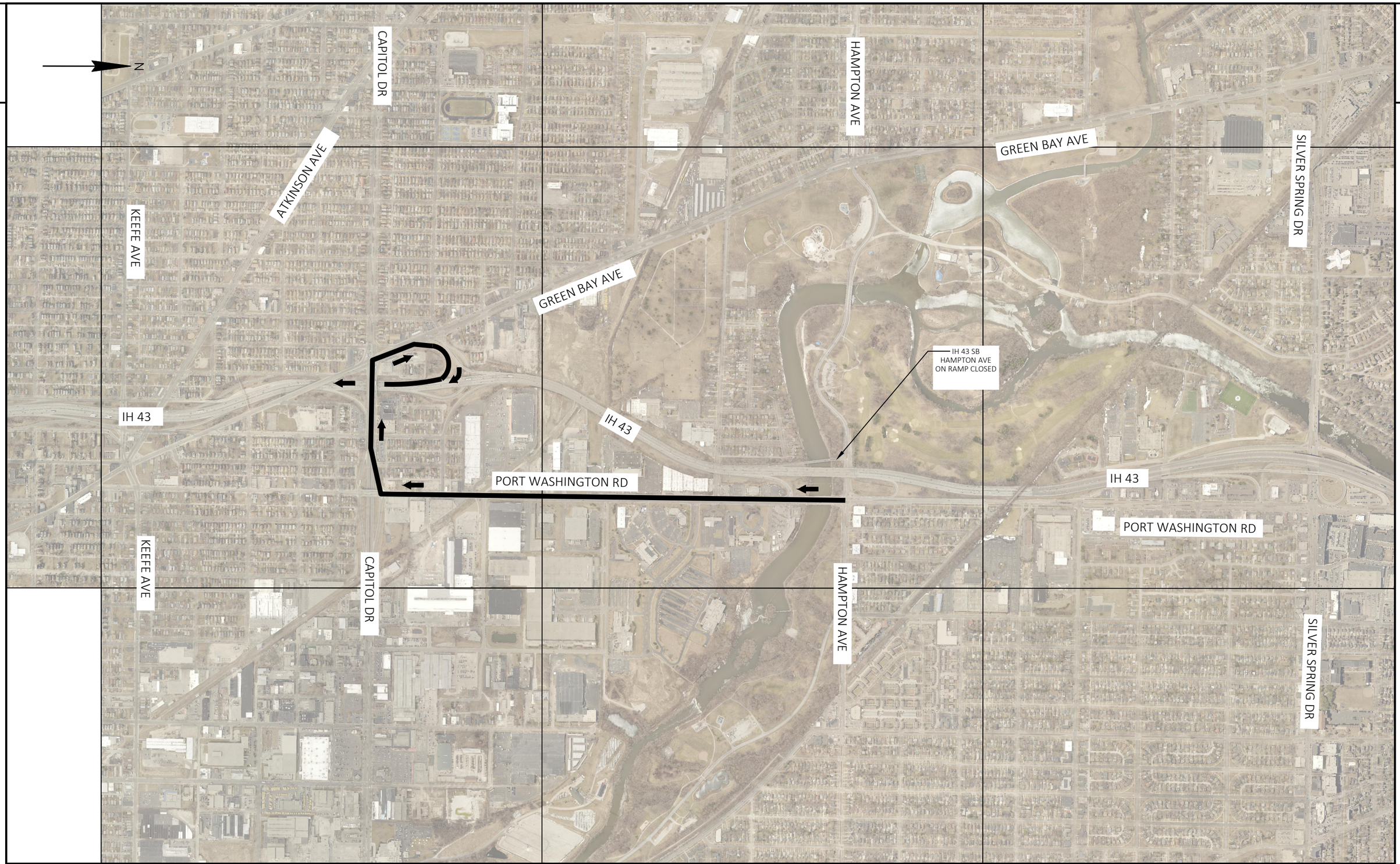
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 SB GREEN BAY AVE OFF RAMP	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027004-dt

PLOT DATE : 3/28/2019 10:33 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT

PRE_262

WISDOT/CADDS SHEET 42



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 SB HAMPTON AVE ON RAMP	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027005-dt

PLOT DATE : 3/28/2019 10:33 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

2

2

N

CAPITOL DR

ATKINSON AVE

HAMPTON AVE

GREEN BAY AVE

GREEN BAY AVE

SILVER SPRING DR

IH 43

PORT WASHINGTON RD

IH 43

PORT WASHINGTON RD

CAPITOL DR

HAMPTON AVE

SILVER SPRING DR

IH 43 SB FULL
FREEWAY CLOSURE

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	DETOUR - IH 43 SB FULL FREEWAY CLOSURE	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027001-DT.DWG
LAYOUT NAME - 027006-dt

PLOT DATE : 3/28/2019 10:34 AM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN:1000 FT

PRE_264

WISDOT/CADDS SHEET 42

2

GBC CURVE 1
PI STA = 932+77.07GBC
Y = 318885.733
X = 602240.716
DELTA = 22°07'00"
D = 17°37'46"
T = 63.52'
L = 125.45'
R = 325.00'
PC STA = 932+13.55GBC
Y = 318830.093
X = 602210.079
PT STA = 933+39.00GBC
Y = 318925.744
X = 602290.047
BK = N28°50'18.1"E
AH = N50°57'18.1"E

GBC CURVE 2
PI STA = 936+70.19GBC
Y = 319134.372
X = 602547.267
DELTA = 51°29'58"
D = 19°05'55"
T = 144.70'
L = 269.65'
R = 300.00'
PC STA = 935+25.49GBC
Y = 319043.220
X = 602434.885
PT STA = 937+95.14GBC
Y = 319279.067
X = 602545.892
BK = N50°57'18.1"E
AH = N00°32'40.2"W

IH 43 CURVE 1
PI STA = 930+92.25
Y = 318579.147
X = 602720.326
DELTA = 7°26'47"
D = 1°29'21"
T = 250.35'
L = 500.00'
R = 3847.16'
PC STA = 928+41.90
Y = 318328.841
X = 602715.495
PT STA = 933+41.90
Y = 318827.968
X = 602692.676
BK = N01°06'20.5"E
AH = N06°20'26.9"W

IH 43 CURVE 2
PI STA = 946+12.35
Y = 320090.649
X = 602552.365
DELTA = 40°16'45"
D = 3°34'52"
T = 586.77'
L = 1124.81'
R = 1600.00'
PC STA = 940+25.58
Y = 319507.467
X = 602617.169
PT STA = 951+50.39
Y = 320577.457
X = 602879.960
BK = N06°20'26.9"W
AH = N33°56'18.3"E

SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 318103.25
X: 601279.31

2646.11'
S89° 27' 17"E

N

STA. 930+91.07 GBC =
STA. 932+89.75 IH 43, 549.67' LT
X = 602,151.00
Y = 318,722.81

N28°50'18"E
122.48'

PC
GBC C1

PI
GBC C1

GBC CURVE 1

N50°57'18"E
186.49935GBC

940GBA2

PT
GBC C1

940GBB2

935GBB2

PC
GBC C2

PI
GBC C2

STA. 936+82.65 GBC =
STA. 938+96.24 GBA2
X = 602,526.09
Y = 319,169.00

GBC CURVE 2
FS: 5.0%

PT
GBC C2

R/L GBC

940GBC

N0°32'40"W
464.49'

STA. 942+59.63 GBC =
STA. 942+59.63 IH 43, 66.96' LT
X = 602,541.48
Y = 319,743.53

PI
IH 43 C2

R/L IH 43

FOR GBB2 LAYOUT
SEE ALIGNMENT LAYOUT - DETAILS

930GBB2

925GBB2

N1°06'21"E
841.90'

925

PC
IH 43 C1

930

PI
IH 43 C1

IH 43 CURVE 1
FS: 3.5%

PT
IH 43 C1

935

N6°20'27"W
683.68'

940

PC
IH 43 C2

PI
GBD C3

940GBD

GBD CURVE 3
FS: 6.0%

PCC
GBD C2/C3

PI
GBD C2

930GBA2

935GBA2

945

PI
GBD C4

PT
GBD C4

IH 43 CURVE 2
FS: 6.0%

PCC
GBD C3/C4

GBD CURVE 4
FS: 6.0%

950

STA. 944+99.20 GBD =
STA. 944+99.20 IH 43, 75.25' RT
X = 602,708.75
Y = 319, 965.16

PT
IH 43 C2

STA. 936+67.65 IH 43 =
STA. 937+63.42 GBA2
X = 602,656.70
Y = 319,151.73

R/L GBD

935GBD

GBD CURVE 2
FS: 6.0%

FOR GBA2 LAYOUT
SEE ALIGNMENT LAYOUT - DETAILS

PCC
GBD C1/C2

PI
GBD C1

GBD CURVE 1

STA. 930+97.93 GBD =
STA. 933+31.22 IH 43, 601.56' RT
X = 603,291.91
Y = 318,882.13

PC
GBD C1

QUARTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 318078.08
X: 603925.29

GBD CURVE 1
PI STA = 931+73.82GBD
Y = 318890.448
X = 603216.472
DELTA = 12°22'31"
D = 8°11'06"
T = 75.89'
L = 151.19'
R = 700.00'
PC STA = 930+97.93GBD
Y = 318882.132
X = 603291.906
PT STA = 932+49.12GBD
Y = 318914.737
X = 603144.573
BK = N83°42'32.6"W
AH = N71°20'02.0"W

GBD CURVE 2
PI STA = 936+25.52GBD
Y = 319035.206
X = 602787.971
DELTA = 59°10'09"
D = 8°38'31"
T = 376.40'
L = 684.68'
R = 663.00'
PC STA = 932+49.12GBD
Y = 318914.737
X = 603144.573
PT STA = 939+33.80GBD
Y = 319403.155
X = 602708.655
BK = N71°20'02.0"W
AH = N12°09'52.8"W

GBD CURVE 3
PI STA = 940+75.52GBD
Y = 319541.696
X = 602678.791
DELTA = 13°31'37"
D = 4°47'41"
T = 141.72'
L = 282.13'
R = 1195.00'
PC STA = 939+33.80GBD
Y = 319403.155
X = 602708.655
PT STA = 942+15.93GBD
Y = 319683.379
X = 602682.161
BK = N12°09'52.8"W
AH = N01°21'44.4"E

GBD CURVE 4
PI STA = 943+57.80GBD
Y = 319825.208
X = 602685.534
DELTA = 8°03'17"
D = 2°50'36"
T = 141.87'
L = 283.27'
R = 2015.00'
PC STA = 942+15.93GBD
Y = 319683.379
X = 602682.161
PT STA = 944+99.20GBD
Y = 319965.165
X = 602708.746
BK = N01°21'44.4"E
AH = N09°25'01.3"E

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET E

PRE_265

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027201-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/21/2020 6:40 AM

PLOT BY : SANTIAGO PEREZ, EDGA

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

2

HAB CURVE 1
PI STA = 969+90.61HAB
Y = 322224.158
X = 603597.028
DELTA = 4°41'44"
D = 2°35'33"
T = 90.61'
L = 181.11'
R = 2210.00'
PC STA = 969+00.00HAB
Y = 322134.307
X = 603585.350
PT STA = 970+81.11HAB
Y = 322314.663
X = 603601.311
BK = N07°24'18.9"E
AH = N02°42'35.2"E

HAB CURVE 2
PI STA = 973+82.10HAB
Y = 322615.311
X = 603615.541
DELTA = 9°14'31"
D = 2°26'17"
T = 189.94'
L = 379.06'
R = 2350.00'
PC STA = 971+92.16HAB
Y = 322425.583
X = 603606.561
PT STA = 975+71.21HAB
Y = 322804.019
X = 603593.933
BK = N02°42'35.2"E
AH = N06°31'55.6"W

IH 43 CURVE 3
PI STA = 965+10.79
Y = 321706.102
X = 603639.477
DELTA = 30°04'58"
D = 2°32'47"
T = 604.63'
L = 1181.35'
R = 2250.00'
PC STA = 959+06.16
Y = 321204.478
X = 603301.911
PT STA = 970+87.52
Y = 322309.364
X = 603680.133
BK = N33°56'18.3"E
AH = N03°51'20.0"E

N

QUARTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 320755.00
X: 601344.86

T7N R22E S6

955
N33°56'18"E
755.78'

960

PC
IH 43 C3

960HAA
N31°57'55"E
170.95'

STA. 959+83.65 HAA =
STA. 959+83.65 IH 43, 75.25 RT
X = 603,407.90
Y =321,229.66

PC
HAA C1

HAA CURVE 1
FS: 5.2%

PI
HAA C1

965

IH 43 CURVE 3
FS: 5.2%

PI
IH 43 C3

965HAA

PCC
HAA C1/C2

HAA CURVE 2
FS: 5.2%

PI
HAA C2

970HAA

PCC
HAA C2/C3

R/L HAA

PI
HAA C3

N1° 03' 25"E
2726.67'

S89°21'33"E
2620.46'

CENTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 320725.69
X: 603965.16

T7N R22E S5 S8

N0° 51' 46"E
2647.91'

STA. 969+00.00 HAB =
STA. 969+00.00 IH 43, 75.25' LT
X = 603,585.35
Y = 322,134.31

PC
HAB C1

HAB CURVE 1
970HAB

PI
HAB C1

970

PT
IH 43 C3

PT
HAB C1

PC
HAB C2

N2°42'35"E
111.04'

HAB CURVE 2
FS: 4.0%

PI
HAB C2

975HAB

975

PT
HAB C2

980HAB
N6°31'56"W
641.95'

R/L HAB

980

N3°51'20"E
1568.96'

R/L IH 43

N3°51'20"E
975HAA127.43'

PC
HAA C4

HAA CURVE 4
FS: 4.0%

PT
HAA C3

PT
HAA C4

N85°26'39"E
41.58'

PI
HAA C4

STA. 978+53.38 HAA =
STA. 976+96.11 IH 43, 293.43 RT
X = 604,013.82
Y = 322,896.85

T7N R22E S31 S32

SOUTH SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323496.31
X: 601370.32
S89° 02' 13"E
2616.63

NORTH SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323495.98
X: 601398.24
S89° 02' 13"E
2616.63

STA. 10+68.35 HA =
STA. 981+95.63 IH 43, 451.05' LT
X = 603,130.62
Y = 322,994.14

STA. 982+13.16 HAB =
STA. 12+84.68 HA
X = 603,520.91
Y = 323,441.80

STA. 982+18.70 IH 43 =
STA. 15+20.00 HA
X = 603,756.20
Y = 323,437.99

T7N R22E S5

NORTH QUARTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323451.89
X: 604015.46
S89°04'23"E
998.06'

HAA CURVE 1
PI STA = 964+17.88HAA
Y = 321598.049
X = 603637.782
DELTA = 16°58'06"
D = 3°14'46"
T = 263.28'
L = 522.71'
R = 1765.00'
PC STA = 961+54.60HAA
Y = 321374.688
X = 603498.399
PT STA = 966+77.31HAA
Y = 321852.365
X = 603705.910
BK = N31°57'54.6"E
AH = N14°59'48.5"E

HAA CURVE 2
PI STA = 968+39.17HAA
Y = 322008.710
X = 603747.793
DELTA = 7°52'39"
D = 2°26'14"
T = 161.86'
L = 323.21'
R = 2350.75'
PC STA = 966+77.31HAA
Y = 321852.365
X = 603705.910
PT STA = 970+00.51HAA
Y = 322169.320
X = 603767.853
BK = N14°59'48.5"E
AH = N07°07'09.0"E

HAA CURVE 3
PI STA = 972+25.57HAA
Y = 322392.642
X = 603795.745
DELTA = 3°15'49"
D = 0°43'31"
T = 225.06'
L = 449.99'
R = 7900.00'
PC STA = 970+00.51HAA
Y = 322169.320
X = 603767.853
PT STA = 974+50.51HAA
Y = 322617.190
X = 603810.878
BK = N07°07'09.0"E
AH = N03°51'20.0"E

HAA CURVE 4
PI STA = 977+16.03HAA
Y = 322882.115
X = 603828.732
DELTA = 81°35'39"
D = 35°48'36"
T = 138.09'
L = 227.85'
R = 160.00'
PC STA = 975+77.94HAA
Y = 322744.334
X = 603819.447
PT STA = 978+05.79HAA
Y = 322893.071
X = 603966.391
BK = N03°51'20.0"E
AH = N85°26'58.5"E

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET PRE_266 E

2

N

NORTH SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323495.98
X: 601398.24

S89° 02' 13"E
2619.63'

SOUTH SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323496.31
X: 601370.32

S89° 02' 13"E
2619.63'

R/L HA

STA. 10+68.35 HA =
STA. 981+95.63 IH 43, 451.05' LT
X = 603,130.62
Y = 322,994.14

N6°31'56"W
641.95'

R/L HAB

STA. 982+13.16 HAB =
STA. 12+84.68 HA
X = 603,520.91
Y = 323,441.80

STA. 982+18.70 IH 43 =
STA. 15+20.00 HA
X = 603,756.20
Y = 323,437.99

N3°51'20"E
1568.96'

985

PC
IH 43 C4

IH 43 CURVE 4
FS: 3.3%

PI
IH 43 C4

990

PT
IH 43 C4

N7°02'39"E
473.67'

PC
IH 43 C5

995

IH 43 CURVE 5
FS: 4.3%

PI
IH 43 C5

PT
IH 43 C5

1000

R/L IH 43

N1°01'58"E
687.80'

1005

PC
IH 43 C6

PI
IH 43 C6

IH 43 CURVE 6
FS: 7.9%

PT
IH 43 C6

1010

N11°08'06"W
793.38'

SOUTH QUARTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323452.34
X: 603986.58

NORTH QUARTER SECTION CORNER
CONCRETE MONUMENT
w/SEWRPC BRASS CAP
Y: 323451.89
X: 604015.46

S89°04'23"E
998.06'

20 HA

STA. 20+66.41 HA =
STA. 982+46.62 IH 43, 545.70' RT
X = 603,130.62
Y = 322,994.14

IH 43 CURVE 4	IH 43 CURVE 5	IH 43 CURVE 6
PI STA = 987+81.73	PI STA = 995+43.35	PI STA = 1005+68.42
Y = 323999.742	Y = 324755.683	Y = 325780.882
X = 603794.054	X = 603887.463	X = 603905.947
DELTA = 3°11'19"	DELTA = 6°00'41"	DELTA = 12°10'04"
D = 1°16'24"	D = 1°50'54"	D = 3°29'37"
T = 125.25'	T = 162.77'	T = 174.80'
L = 250.43'	L = 325.24'	L = 348.28'
R = 4500.00'	R = 3100.00'	R = 1640.00'
PC STA = 986+56.48	PC STA = 993+80.58	PC STA = 1003+93.62
Y = 323874.778	Y = 324594.142	Y = 325606.112
X = 603785.632	X = 603867.502	X = 603902.796
PT STA = 989+06.91	PT STA = 997+05.82	PT STA = 1007+41.91
Y = 324124.045	Y = 324918.425	Y = 325952.391
X = 603809.414	X = 603890.397	X = 603872.190
BK = N03°51'20.0"E	BK = N07°02'38.9"E	BK = N01°01'58.4"E
AH = N07°02'38.9"E	AH = N01°01'58.4"E	AH = N11°08'05.6"W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027201-AD.DWG
LAYOUT NAME - 03

PLOT DATE : 2/21/2020 6:40 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

GBB2 CURVE 1
PI STA = 930+22.77GBB2
Y = 318510.688
X = 602659.778
DELTA = 5°03'02"
D = 1°23'52"
T = 180.77'
L = 361.30'
R = 4098.75'
PC STA = 928+42.00GBB2
Y = 318329.922
X = 602659.505
PT STA = 932+03.30GBB2
Y = 318690.777
X = 602644.135
BK = N00°05'10.9"E
AH = N04°57'51.1"W

GBB2 CURVE 2
PI STA = 932+74.61GBB2
Y = 318761.818
X = 602637.965
DELTA = 12°38'56"
D = 8°54'19"
T = 71.31'
L = 142.04'
R = 643.38'
PC STA = 932+03.30GBB2
Y = 318690.777
X = 602644.135
PT STA = 933+45.34GBB2
Y = 318829.784
X = 602616.388
BK = N04°57'51.1"W
AH = N17°36'47.5"W

GBB2 CURVE 3
PI STA = 936+27.46GBB2
Y = 319098.676
X = 602531.022
DELTA = 120°14'33"
D = 35°20'57"
T = 282.12'
L = 340.16'
R = 162.09'
PC STA = 933+45.34GBB2
Y = 318829.784
X = 602616.388
PT STA = 936+85.50GBB2
Y = 318889.498
X = 602341.721
BK = N17°36'47.5"W
AH = S42°08'39.6"W

GBB2 CURVE 4
PI STA = 938+99.12GBB2
Y = 318731.105
X = 602198.379
DELTA = 64°48'04"
D = 18°22'33"
T = 197.88'
L = 352.65'
R = 311.80'
PC STA = 937+01.24GBB2
Y = 318877.824
X = 602331.156
PT STA = 940+53.89GBB2
Y = 318548.496
X = 602274.604
BK = S42°08'39.6"W
AH = S22°39'24.4"E

GBA2 CURVE 1
PI STA = 929+42.73GBA2
Y = 318424.524
X = 602761.081
DELTA = 11°40'45"
D = 3°00'00"
T = 195.33'
L = 389.31'
R = 1909.86'
PC STA = 927+47.41GBA2
Y = 318229.235
X = 602757.130
PT STA = 931+36.71GBA2
Y = 318614.971
X = 602804.484
BK = N01°09'33.1"E
AH = N12°50'18.1"E

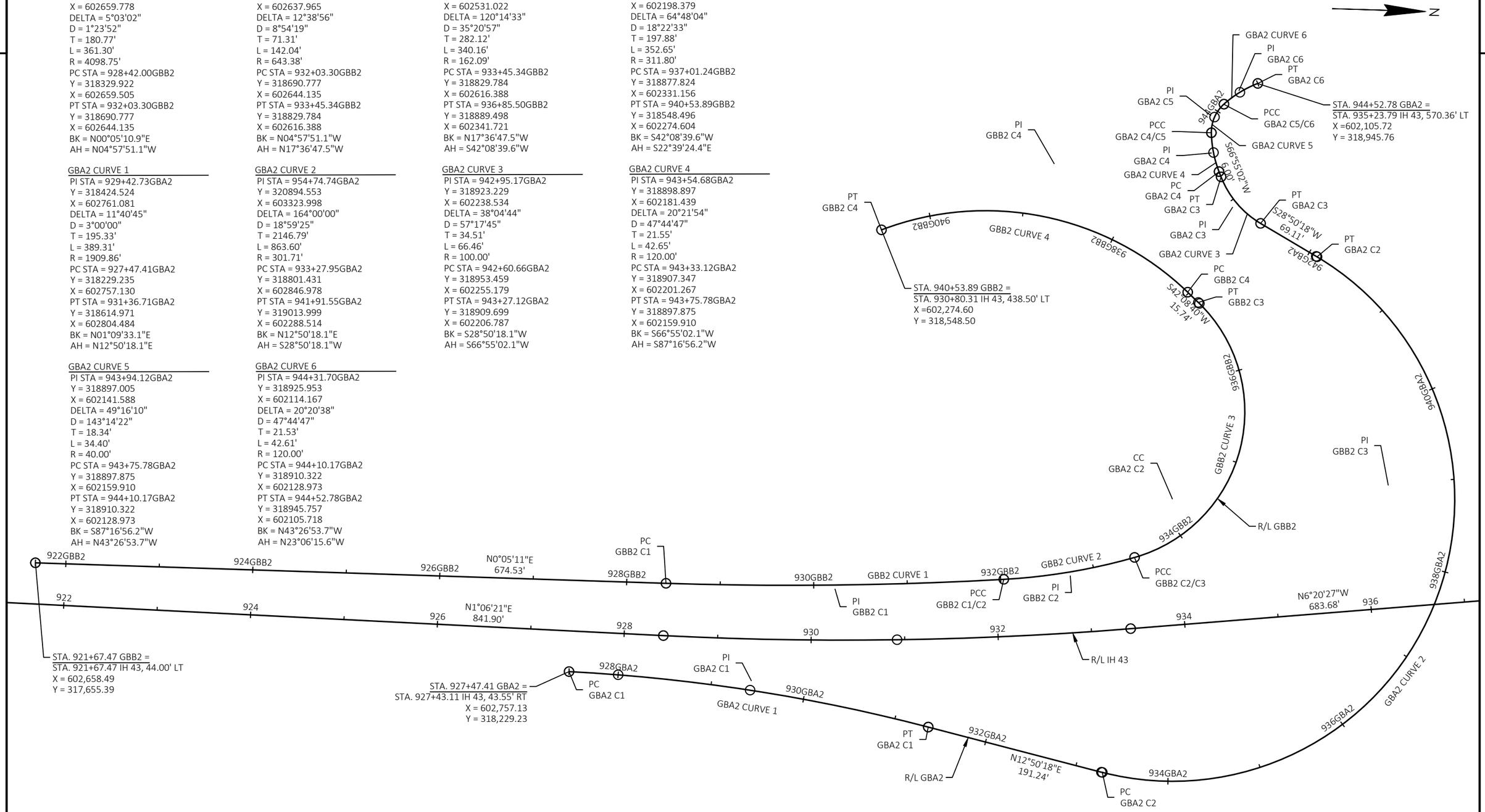
GBA2 CURVE 2
PI STA = 954+74.74GBA2
Y = 320894.553
X = 603323.998
DELTA = 164°00'00"
D = 18°59'25"
T = 2146.79'
L = 863.60'
R = 301.71'
PC STA = 933+27.95GBA2
Y = 318801.431
X = 602846.978
PT STA = 941+91.55GBA2
Y = 319013.999
X = 602288.514
BK = N12°50'18.1"E
AH = S28°50'18.1"W

GBA2 CURVE 3
PI STA = 942+95.17GBA2
Y = 318923.229
X = 602238.534
DELTA = 38°04'44"
D = 57°17'45"
T = 34.51'
L = 66.46'
R = 100.00'
PC STA = 942+60.66GBA2
Y = 318953.459
X = 602255.179
PT STA = 943+27.12GBA2
Y = 318909.699
X = 602206.787
BK = S28°50'18.1"W
AH = S66°55'02.1"W

GBA2 CURVE 4
PI STA = 943+54.68GBA2
Y = 318898.897
X = 602181.439
DELTA = 20°21'54"
D = 47°44'47"
T = 21.55'
L = 42.65'
R = 120.00'
PC STA = 943+33.12GBA2
Y = 318907.347
X = 602201.267
PT STA = 943+75.78GBA2
Y = 318897.875
X = 602159.910
BK = S66°55'02.1"W
AH = S87°16'56.2"W

GBA2 CURVE 5
PI STA = 943+94.12GBA2
Y = 318897.005
X = 602141.588
DELTA = 49°16'10"
D = 143°14'22"
T = 18.34'
L = 34.40'
R = 40.00'
PC STA = 943+75.78GBA2
Y = 318897.875
X = 602159.910
PT STA = 944+10.17GBA2
Y = 318910.322
X = 602128.973
BK = S87°16'56.2"W
AH = N43°26'53.7"W

GBA2 CURVE 6
PI STA = 944+31.70GBA2
Y = 318925.953
X = 602114.167
DELTA = 20°20'38"
D = 47°44'47"
T = 21.53'
L = 42.61'
R = 120.00'
PC STA = 944+10.17GBA2
Y = 318910.322
X = 602128.973
PT STA = 944+52.78GBA2
Y = 318945.757
X = 602105.718
BK = N43°26'53.7"W
AH = N23°06'15.6"W



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - DETAILS	SHEET

PRE_268

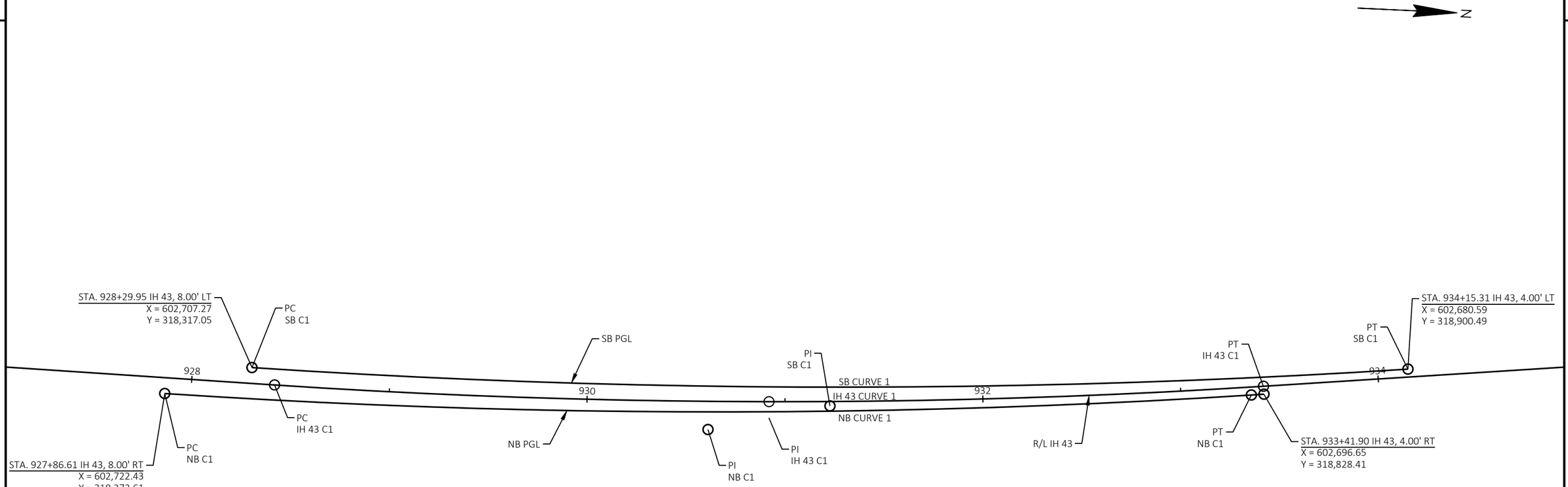
E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027205-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 1/23/2020 12:18 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NB CURVE 1
PI STA = 930+61.21, 14.27' RT
Y = 318548.655
X = 602727.739
DELTA = 7°26'47"
D = 1°21'19"
T = 275.10'
L = 549.42'
R = 4227.39'
PC STA = 927+86.81, 8.00' RT
Y = 318273.610
X = 602722.430
PT STA = 933+35.52, 4.01' RT
Y = 318822.068
X = 602697.357
BK = N01°06'20.5"E
AH = N06°20'26.9"W

SB CURVE 1
PI STA = 931+22.68, 2.25' LT
Y = 318609.639
X = 602712.913
DELTA = 7°26'47"
D = 1°16'27"
T = 292.64'
L = 584.46'
R = 4496.99'
PC STA = 928+29.95, 8.00' LT
Y = 318317.054
X = 602707.266
PT STA = 934+15.31, 4.00' LT
Y = 318900.489
X = 602680.593
BK = N01°06'20.5"E
AH = N06°20'26.9"W

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - PROFILE GRADE LINES	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027211-AD.DWG
LAYOUT NAME - 01
PLOT DATE : 1/23/2020 12:21 PM
PLOT BY : FERGUSON, JULIE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

N

STA. 937+95.14 IH 43, 4.00' LT
X = 602,638.64
Y = 319,278.00

N7°05'27"W
315.82'

938

940

PC
SB C2

942

PI
NB C2

PI
SB C2

SB CURVE 2

SB PGL

IH 43 CURVE 2

R/L IH 43

944

N5°35'27"W
144.32'

NB CURVE 2

PC
NB C2

PC
IH 43 C2

NB PGL

PT
NB C2

STA. 937+64.11 IH 43, 4.00' RT
X = 602,650.02
Y = 319,248.04

STA. 945+00.00 IH 43, 27.25' RT
X = 602,661.71
Y = 319,974.78

NB CURVE 2	SB CURVE 2
PI STA = 942+03.54, 0.14' LT	PI STA = 943+59.93, 47.32' LT
Y = 319685.065	Y = 319845.854
X = 602607.242	X = 602568.006
DELTA = 16°14'20"	DELTA = 21°40'41"
D = 2°46'22"	D = 4°16'42"
T = 294.79'	T = 256.42'
L = 585.64'	L = 506.70'
R = 2066.30'	R = 1339.22'
PC STA = 939+08.42, 5.89' RT	PC STA = 941+10.42, 10.40' LT
Y = 319391.673	Y = 319591.400
X = 602635.962	X = 602599.658
PT STA = 945+00.00, 27.25' RT	PT STA = 946+10.00, 27.25' LT
Y = 319974.783	Y = 320094.003
X = 602661.713	X = 602632.585
BK = N05°35'26.9"W	BK = N07°05'26.9"W
AH = N10°38'53.3"E	AH = N14°35'14.0"E

PT
SB C2

STA. 946+10.00 IH 43, 27.25' LT
X = 602,632.59
Y = 320,094.00

SB PGL

946

R/L IH 43

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - PROFILE GRADE LINES	SHEET E

PRE_270

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027211-AD.DWG
LAYOUT NAME - 02

PLOT DATE : 1/23/2020 12:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

STA. 989+50.00 IH 43, 27.25' LT
X = 603,787.65
Y = 324,170.15

SB PGL

988

IH 43 CURVE 4

990

PT
IH 43 C4

R/L IH 43

STA. 998+24.17 IH 43, 8.00' LT
X = 603,884.53
Y = 325,036.89

SB PGL

PC
SB C3

PI
SB C3

PT
IH 43 C5

PT
SB C3

SB CURVE 3

998

R/L IH 43

992

994

IH 43 CURVE 5

996

PC
NB C3

PC
IH 43 C5

NB CURVE 3

PI
IH 43 C5

NB PGL

PT
NB C3

STA. 997+05.82 IH 43, 8.00' RT
X = 603,898.40
Y = 324,918.28

PI
NB C3

STA. 991+98.20 IH 43, 27.25' RT
X = 603,872.18
Y = 324,409.79

NB CURVE 3
PI STA = 993+60.97, 27.25' RT
Y = 324571.331
X = 603892.141
DELTA = 6°00'41"
D = 1°50'54"
T = 162.77'
L = 325.24'
R = 3100.00'
PC STA =991+98.20, 27.25' RT
Y = 324409.790
X = 603872.180
PT STA =995+22.28, 13.46 RT
Y = 324734.074
X = 603895.075
BK = N07°02'38.9"E
AH = N01°01'58.4"E

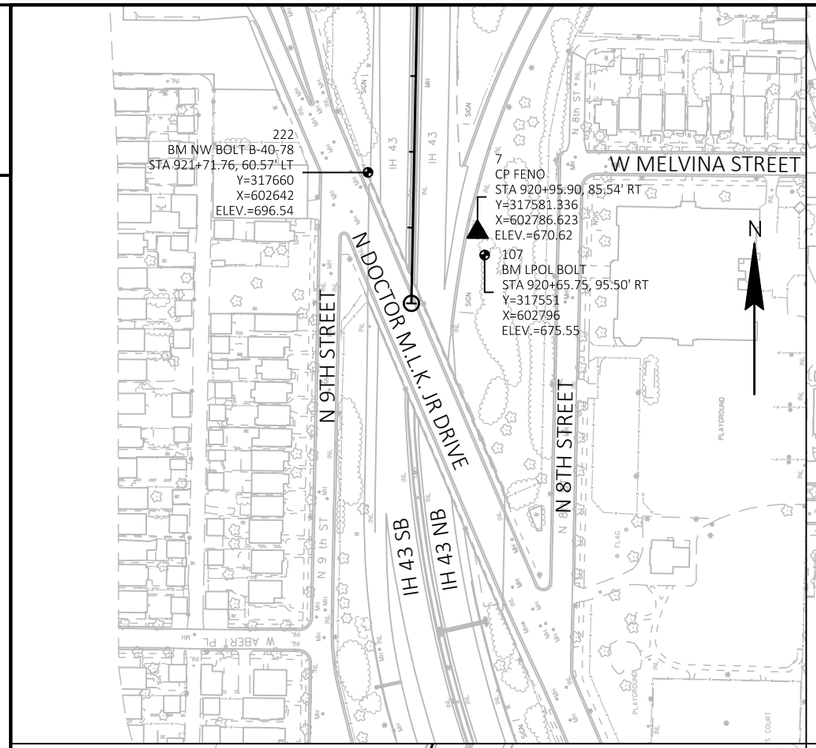
SB CURVE 3
PI STA = 996+40.89, 7.32' LT
Y = 324853.800
X = 603881.231
DELTA = 6°45'41"
D = 1°50'54"
T = 183.12'
L = 365.82'
R = 3100.00'
PC STA =994+57.35, 19.67' LT
Y = 324672.370
X = 603856.397
PT STA =998+24.17, 8.00' LT
Y = 325036.893
X = 603884.532
BK = N07°47'38.9"E
AH = N01°01'58.4"E

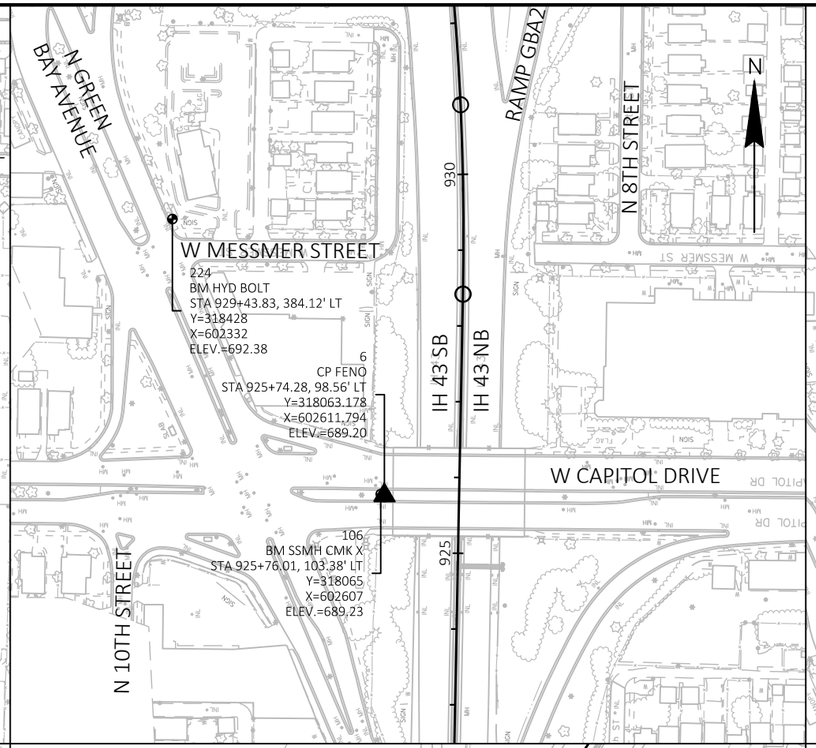
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - PROFILE GRADE LINES	SHEET E

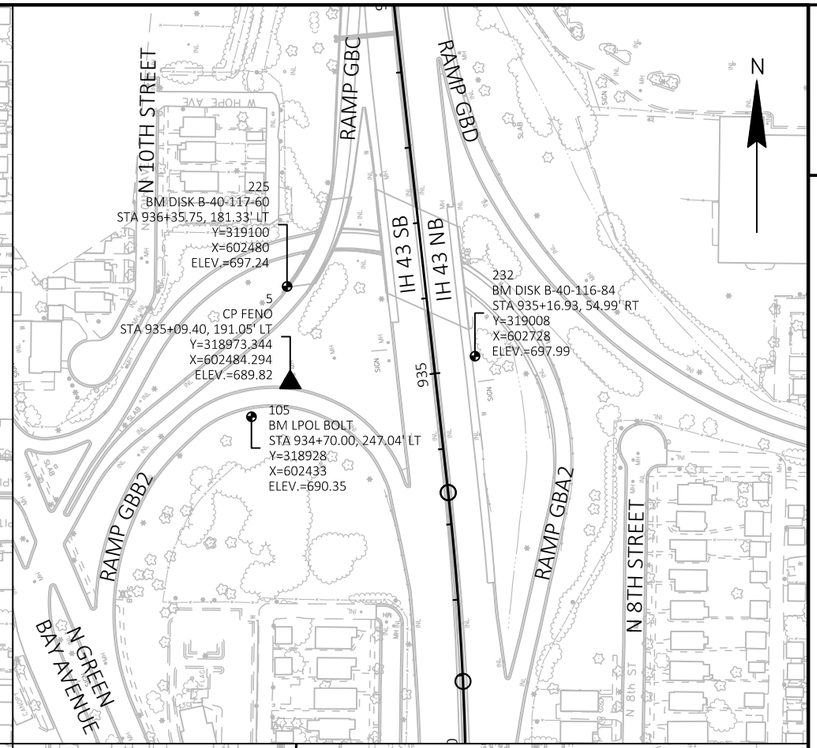
PRE_271

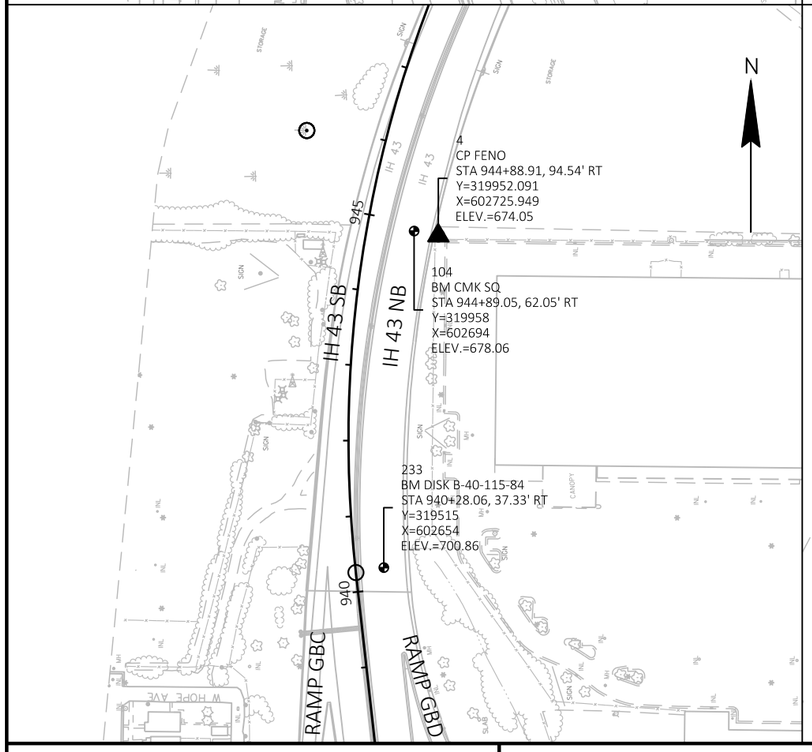
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027211-AD.DWG
LAYOUT NAME - 03

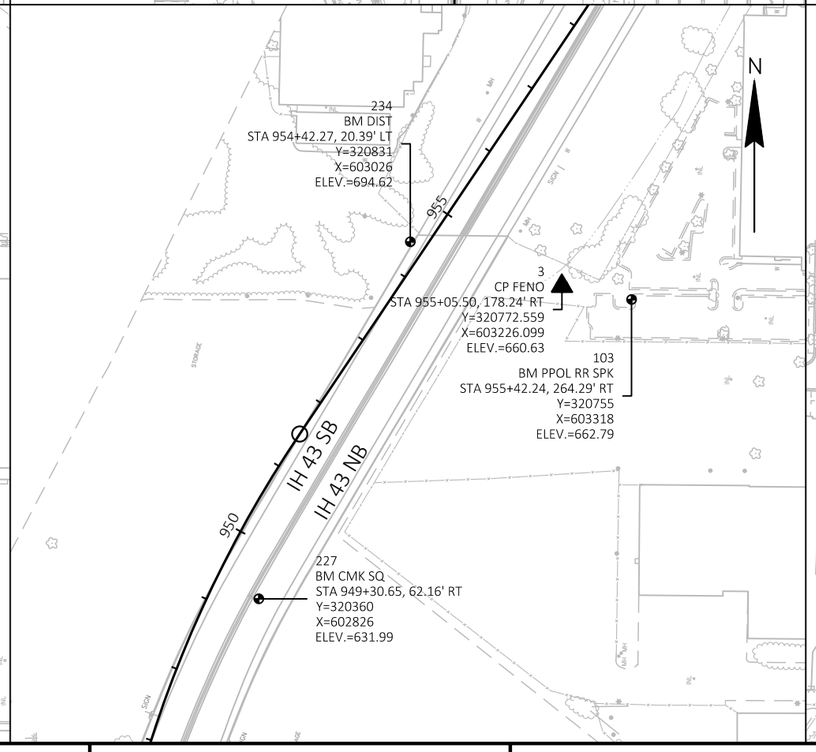
PLOT DATE : 1/23/2020 12:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

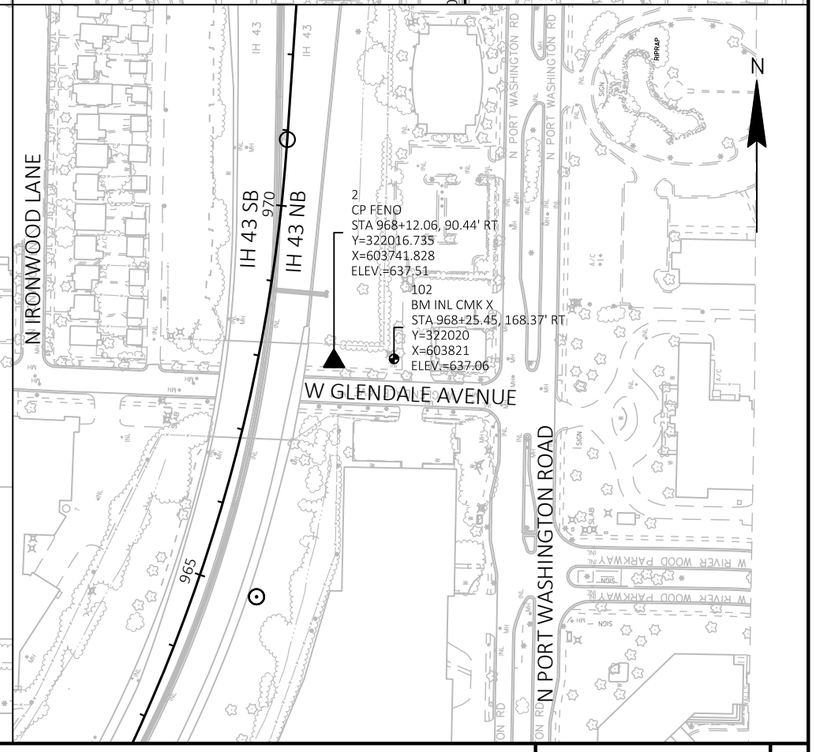








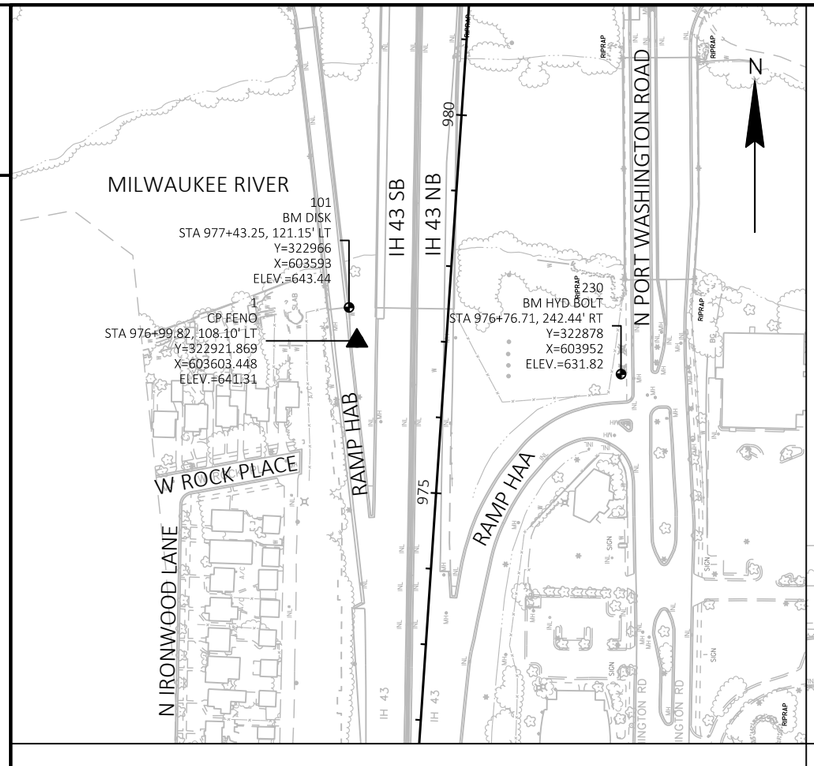


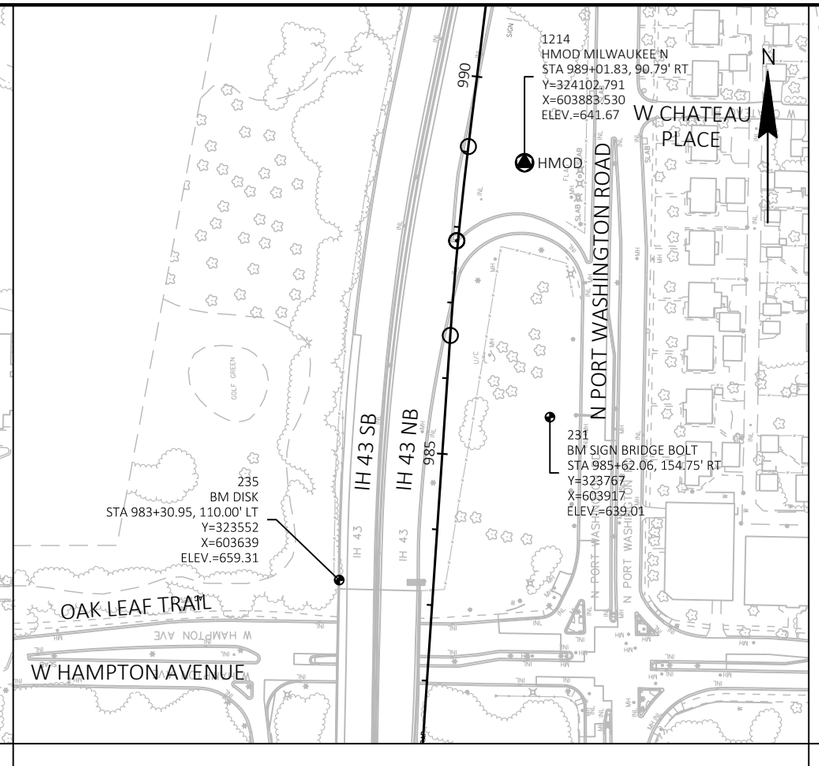


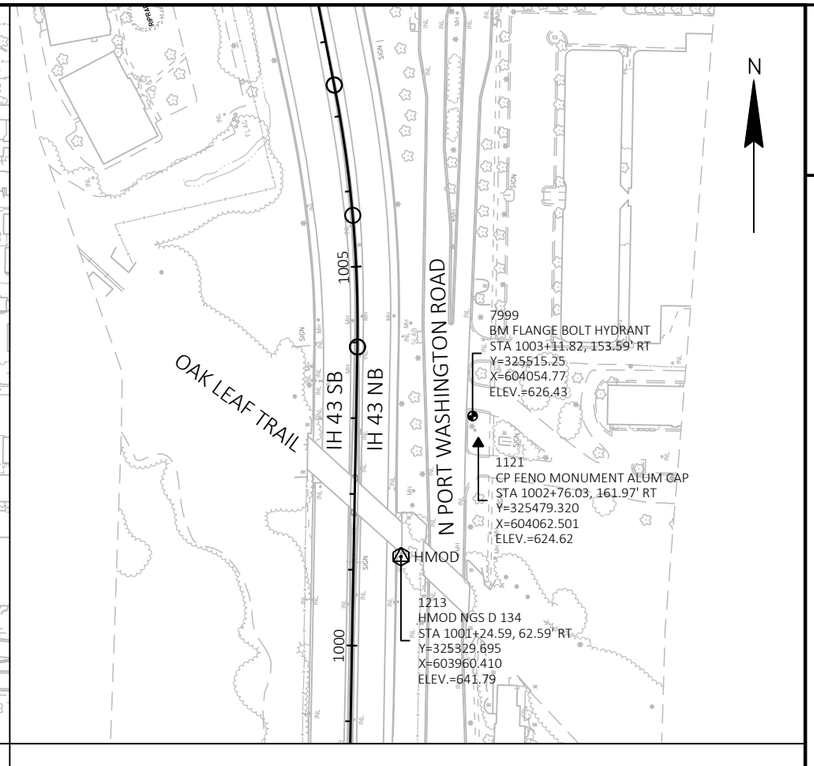
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027251-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 1/27/2020 6:36 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:200 FT







2

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\027251-AD.DWG
LAYOUT NAME - 02

PLOT DATE : 1/27/2020 6:37 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:200 FT

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
RAMP GBC	101	---	---	933+30+19	17.0	RT	689.87	INLETS 4-FT DIAMETER	HM	6.29	P102	---	101	E103	683.58	683.16	1.50	28	32	III	15	---
RAMP GBC	E103	---	---	932+98.73	30.2	RT	689.46	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
RAMP GBC	105	---	---	933+04.61	8.0	LT	690.64	INLETS 4-FT DIAMETER	HM	4.54	PE106	---	105	E107	686.10	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
RAMP GBC	E107	---	---	933+50.47	20.4	LT	690.05	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
RAMP GBC	121	---	---	937+45.33	8.0	LT	699.38	INLETS 4-FT DIAMETER	HM	6.50	P122	---	121	123	692.88	692.59	0.50	60	64	III	15	---
IH 43	123	---	---	937+68.75	49.7	LT	699.36	INLETS 4-FT DIAMETER	V	6.78	P124	---	123	125	692.58	692.39	0.50	40	44	III	15	---
IH 43	125	---	---	937+67.66	2.1	LT	699.05	INLETS 4-FT DIAMETER	V	6.66	P126	---	125	127	692.39	692.37	0.50	4	8	III	12	---
IH 43	127	---	---	937+67.68	2.1	RT	699.05	INLETS 4-FT DIAMETER	V	6.68	P128	---	127	129	692.37	692.00	0.76	48	52	III	12	---
IH 43	129	---	---	937+39.05	50.0	RT	698.02	INLETS 4-FT DIAMETER	V	6.02	P130	---	129	133	692.00	689.18	6.42	44	49	III	12	---
RAMP GBD	131	---	---	938+73.33	10.8	RT	695.02	INLETS 4-FT DIAMETER	HM	6.09	P132	---	131	133	688.93	688.24	0.50	138	143	III	12	---
RAMP GBD	133	---	---	937+38.89	33.7	LT	694.39	MANHOLES 6-FT DIAMETER	J-SPECIAL	6.15	P134	---	133	137	688.24	682.31	5.76	103	108	III	12	---
RAMP GBD	135	---	---	936+43.70	19.0	LT	690.03	INLETS 4-FT DIAMETER	V	6.34	P136	---	135	137	683.69	683.40	1.50	19	23	III	12	---
RAMP GBD	137	---	---	936+40.50	7.9	RT	688.35	INLETS 4-FT DIAMETER	V	6.04	P138	---	137	139	682.31	673.82	3.53	240	244	III	12	---
RAMP GBD	139	---	---	933+92.56	7.9	RT	679.90	INLETS 4-FT DIAMETER	V	6.08	P140	---	139	141	673.82	673.10	3.53	21	25	III	12	---
RAMP GBD	141	---	---	933+83.70	19.0	LT	681.24	INLETS 4-FT DIAMETER	V	8.14	PE142	---	141	E143	673.10	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
RAMP GBD	E143	---	---	933+58.67	103.3	LT	673.24	---	---	---	PE150	---	E143	151	---	659.59	---	---	---	---	42	EXIST PIPE INTERPOL ELEV
IH 43	151	---	---	933+37.10	440.7	RT	674.69	MANHOLES 4-FT DIAMETER	J-SPECIAL	15.10	PE152	---	151	E163	659.59	---	---	---	---	---	42	EXIST PIPE INTERPOL ELEV
RAMP GBD	161	---	---	931+45.21	7.9	RT	676.26	INLETS 4-FT DIAMETER	HM	6.08	P162	---	161	E163	670.18	669.37	1.50	54	58	III	12	---
RAMP GBD	E163	---	---	930+00	11.1	LT	676.34	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
IH 43	181	---	---	941+54.46	73.0	RT	694.68	INLETS 2x2.5-FT	V	6.59	P182	---	181	183	688.09	687.69	0.50	80	83	III	18	---
IH 43	183	---	---	941+49.04	10.8	LT	698.93	MANHOLES 5-FT DIAMETER	B	11.74	P184	---	183	187	687.19	684.13	1.25	245	250	III	24	---
IH 43	185	---	---	944+00.71	58.5	RT	691.62	INLETS 2x2.5-FT	V	6.59	P186	---	185	187	685.03	684.63	0.50	80	83	III	18	---
IH 43	187	---	---	943+95.87	25.7	LT	695.15	MANHOLES 5-FT DIAMETER	B	11.02	P188	---	187	191	684.13	679.24	2.00	245	250	III	24	---
IH 43	189	---	---	946+44.91	45.4	RT	685.67	INLETS 2x2.5-FT	V	6.57	P190	---	189	191	679.10	678.70	0.50	80	83	III	18	---
IH 43	191	---	---	946+40.70	38.7	LT	689.58	MANHOLES 5-FT DIAMETER	B	11.38	P192	---	191	197	678.20	675.30	2.00	145	150	III	24	---
IH 43	---	---	---	---	---	---	---	---	---	--	P196	---	195	197	677.00	676.44	0.50	111	113	III	24	FROM ENDWALL
IH 43	197	---	---	947+86.77	45.7	LT	685.22	MANHOLES 5-FT DIAMETER	B	9.92	P198	---	197	201	675.30	673.40	2.00	95	100	III	24	---
IH 43	199	---	---	948+86.99	34.3	RT	678.20	INLETS 2x2.5-FT	V	6.59	P200	---	199	201	671.61	671.21	0.50	80	83	III	18	---
IH 43	201	---	---	948+83.85	49.9	LT	682.20	MANHOLES 5-FT DIAMETER	B	11.49	P202	---	201	223	670.71	665.83	2.00	244	250	III	24	---
IH 43	215	---	---	951+15.87	31.4	RT	671.78	INLETS 2x2.5-FT	V	6.25	P216	---	215	217	665.53	665.48	0.69	8	10	III	12	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	217	---	---	951+25.86	31.9	RT	671.53	INLETS 2x2.5-FT	V	6.55	P218	---	217	223	664.98	664.58	0.50	79	83	III	18	---
IH 43	---	---	---	---	---	---	---	---	---	--	P222	---	221	223	666.36	665.78	0.50	115	118	III	24	FROM ENDWALL
IH 43	223	---	---	951+30.71	52.2	LT	675.06	MANHOLES 6-FT DIAMETER	B	11.48	P224	---	223	225	663.58	659.19	2.00	220	225	III	30	---
IH 43	225	---	---	953+55.34	39.2	LT	668.99	MANHOLES 5-FT DIAMETER	J-SPECIAL	9.83	P226	---	225	231	659.16	655.64	3.79	93	98	III	30	---
IH 43	227	---	---	953+65.43	45.8	RT	666.88	INLETS 2x2.5-FT	V	6.10	P228	---	227	229	660.78	660.71	0.96	8	10	III	12	---
IH 43	229	---	---	953+75.41	46.4	RT	666.76	INLETS 2x2.5-FT	V	6.30	P230	---	229	231	660.46	660.21	1.00	25	29	III	15	---
IH 43	231	---	---	954+04.63	45.6	RT	666.50	MANHOLES 5-FT DIAMETER	J-SPECIAL	11.05	P232	---	231	233	655.45	655.23	3.79	6	12	III	30	---
IH 43	233	---	---	954+10.50	55.7	RT	665.55	MANHOLES 7-FT DIAMETER	J-SPECIAL	10.32	P234	---	233	335	655.23	647.40	8.85	88	96	III	30	---
IH 43	251	---	---	953+80.29	37.7	LT	668.40	MANHOLES 5-FT DIAMETER	B	10.12	P252	---	251	331	658.28	656.30	1.66	119	125	III	30	---
IH 43	261	---	---	966+33.57	14.6	LT	662.50	INLETS 4-FT DIAMETER	B	7.15	P262	---	261	265	655.35	654.48	1.20	72	77	IV	24	---
IH 43	263	---	---	966+36.24	101.2	LT	658.76	INLETS 2x2.5-FT	V	3.75	P264	---	263	265	655.01	654.98	0.50	5	9	IV	18	---
IH 43	265	---	---	966+35.92	91.3	LT	659.28	MANHOLES 5-FT DIAMETER	J-SPECIAL	4.80	P266	---	265	273	654.48	653.77	0.30	236	241	IV	24	---
IH 43	267	---	---	963+81.07	16.4	LT	665.95	INLETS 4-FT DIAMETER	B	7.13	P268	---	267	273	658.82	655.21	5.00	72	77	III	24	---
IH 43	269	---	---	963+69.13	100.5	LT	662.38	INLETS 2x2.5-FT	V	6.06	P270	---	269	271	656.32	656.26	0.75	8	10	III	12	---
IH 43	271	---	---	963+79.79	100.7	LT	662.30	INLETS 2x2.5-FT	V	6.54	P272	---	271	273	655.76	655.71	1.50	3	7	III	18	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	273	---	---	963+79.91	93.2	LT	662.69	MANHOLES 5-FT DIAMETER	J-SPECIAL	9.42	P274	---	273	285	653.27	652.56	0.30	236	241	III	30	---
IH 43	281	---	---	961+29.32	7.5	LT	666.47	INLETS 4-FT DIAMETER	B	7.13	P282	---	281	285	659.34	655.73	5.00	72	77	III	24	---
IH 43	283	---	---	961+25.08	91.7	LT	662.81	INLETS 2x2.5-FT	V	6.57	P284	---	283	285	656.24	656.23	0.50	3	7	III	18	---
IH 43	285	---	---	961+25.45	84.2	LT	663.20	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.64	P286	---	285	291	652.56	652.20	0.30	121	126	III	30	---
IH 43	287	---	---	960+09.50	88.9	LT	662.23	INLETS 2x2.5-FT	V	7.12	P288	---	287	289	655.11	655.06	0.70	8	10	III	12	---
IH 43	289	---	---	959+99.49	89.0	LT	662.18	INLETS 2x2.5-FT	V	7.63	P290	---	289	291	654.55	654.54	0.50	3	7	III	18	---
IH 43	291	---	---	959+99.44	81.5	LT	662.57	MANHOLES 5-FT DIAMETER	J-SPECIAL	10.37	P292	---	291	297	652.20	651.87	0.30	110	116	III	30	---
IH 43	293	---	---	958+74.35	93.5	LT	662.36	INLETS 2x2.5-FT	V	7.81	P294	---	293	295	654.55	654.50	0.61	8	10	III	12	---
IH 43	295	---	---	958+84.33	92.9	LT	662.34	INLETS 2x2.5-FT	V	8.34	P296	---	295	297	654.00	653.98	0.50	3	7	III	18	---
IH 43	297	---	---	958+83.87	84.9	LT	662.65	MANHOLES 6-FT DIAMETER	J-SPECIAL	10.78	P298	---	297	311	651.87	651.66	0.30	71	76	III	30	---
IH 43	311	---	---	958+79.46	8.8	LT	665.60	MANHOLES 5-FT DIAMETER	B	14.44	P312	---	311	313	651.16	650.72	0.30	146	150	III	36	---
IH 43	313	---	---	957+29.71	17.5	LT	664.68	INLETS 4-FT DIAMETER	B	13.96	P314	---	313	319	650.72	650.43	0.30	96	100	III	36	---
IH 43	315	---	---	956+24.77	107.9	LT	664.11	INLETS 2x2.5-FT	V	6.15	P316	---	315	317	657.96	657.91	0.60	8	10	III	12	---
IH 43	317	---	---	956+34.77	107.4	LT	663.96	INLETS 2x2.5-FT	V	6.55	P318	---	317	319	657.41	657.01	0.50	80	83	III	18	---
IH 43	319	---	---	956+29.88	23.3	LT	664.86	MANHOLES 5-FT DIAMETER	B	14.43	P320	---	319	331	650.43	650.07	0.30	119	125	III	36	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	331	---	---	955+05.08	30.5	LT	666.08	MANHOLES 7-FT DIAMETER	J-SPECIAL	17.01	P332	---	331	333	649.07	648.85	0.30	73	80	III	48	---
IH 43	333	---	---	955+00.49	49.0	RT	665.94	MANHOLES 7-FT DIAMETER	J-SPECIAL	18.60	P334	---	333	335	647.34	647.29	0.30	16	24	III	48	---
IH 43	335	---	---	955+05.46	72.5	RT	653.20	MANHOLES 9-FT SPECIAL	J-SPECIAL	5.93	P336	---	335	337	647.27	647.22	0.30	15	20	III	48	TO ENDWALL
IH 43	---	---	---	---	---	---	---	---	---	--	P350	---	349	351	647.00	643.39	3.72	97	99	III	24	FROM ENDWALL
IH 43	351	---	---	961+77.30	125.8	RT	654.50	MANHOLES 4-FT DIAMETER	J-SPECIAL	11.11	P352	---	351	353	643.39	637.55	1.89	310	314	III	24	---
IH 43	353	---	---	964+69.38	119.4	RT	645.00	MANHOLES 4-FT DIAMETER	J-SPECIAL	7.45	P354	---	353	355	637.55	631.06	3.00	216	220	III	24	---
IH 43	355	---	---	966+75.30	111.9	RT	637.00	INLETS 4-FT DIAMETER	C	5.94	P356	---	355	357	631.06	630.40	1.50	44	48	IV	24	---
IH 43	357	---	---	967+19.85	103.5	RT	637.46	MANHOLES 4-FT DIAMETER	J-SPECIAL	7.06	P358	---	357	E359	630.40	630.02	1.50	25	30	IV	24	---
IH 43	---	---	---	---	---	---	---	---	---	--	PE164	---	E359	E359	---	---	---	---	---	---	48	EXIST PIPE INTERPOL ELEV
IH 43	E359	---	---	967+47.35	95.5	RT	636.67	---	---	---	PE166	---	E359	PE166	---	---	---	---	---	---	48	EXIST PIPE INTERPOL ELEV
IH 43	401	---	---	968+90.82	86.5	LT	652.55	INLETS 2x2.5-FT	V	6.73	P402	---	401	403	645.82	645.07	1.00	75	78	III	18	---
IH 43	403	---	---	968+84.87	5.3	LT	656.78	INLETS 4-FT DIAMETER	V	12.11	P404	---	403	405	644.67	644.60	1.00	7	11	III	24	---
IH 43	405	---	---	968+84.42	1.2	RT	656.24	INLETS 4-FT DIAMETER	V	11.64	P406	---	405	407	644.60	643.98	1.00	62	66	III	24	---
IH 43	407	---	---	968+79.30	69.3	RT	659.80	MANHOLES 5-FT DIAMETER	J-SPECIAL	20.52	P408	---	407	415	639.28	636.76	1.00	252	256	III	24	---
IH 43	409	---	---	971+38.42	74.1	LT	646.23	INLETS 2x2.5-FT	V	7.13	P410	---	409	411	639.10	638.30	1.00	80	83	III	18	---

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STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	411	---	---	971+34.10	11.9	RT	648.74	INLETS 4-FT DIAMETER	V	10.44	P412	---	411	413	638.30	638.23	1.00	7	11	III	24	---
IH 43	413	---	---	971+33.75	18.3	RT	649.09	INLETS 4-FT DIAMETER	V	10.86	P414	---	413	415	638.23	637.61	1.00	62	66	III	24	---
IH 43	415	---	---	971+30.34	86.7	RT	650.99	MANHOLES 4-FT DIAMETER	J-SPECIAL	14.23	P416	---	415	439	636.76	633.80	1.00	296	300	III	24	---
IH 43	431	---	---	973+88.81	75.5	LT	642.90	INLETS 2x2.5-FT	V	7.13	P432	---	431	433	635.77	635.23	1.00	54	58	III	18	---
IH 43	433	---	---	974+37.34	45.0	LT	644.15	INLETS 4-FT DIAMETER	V	8.92	P434	---	433	435	635.23	634.59	1.00	64	68	III	24	---
IH 43	435	---	---	974+33.71	27.0	RT	644.15	INLETS 4-FT DIAMETER	V	9.56	P436	---	435	437	634.59	634.52	1.00	7	11	III	24	---
IH 43	437	---	---	974+33.34	33.5	RT	644.93	INLETS 4-FT DIAMETER	V	10.41	P438	---	437	439	634.52	633.89	1.00	63	68	III	24	---
IH 43	439	---	---	974+29.77	105.4	RT	644.93	MANHOLES 5-FT DIAMETER	V	11.13	P440	---	439	457	633.80	631.33	0.99	249	254	III	24	---
IH 43	451	---	---	976+62.05	33.6	LT	647.31	INLETS 4-FT DIAMETER	V	7.13	P452	---	451	453	640.18	639.54	1.00	64	68	III	24	---
IH 43	453	---	---	976+58.44	38.3	RT	647.31	INLETS 4-FT DIAMETER	V	7.77	P454	---	453	455	639.54	639.47	1.00	7	11	III	24	---
IH 43	455	---	---	976+58.10	44.8	RT	647.42	INLETS 4-FT DIAMETER	V	7.95	P456	---	455	457	639.47	638.78	1.00	69	73	III	24	TO ENDWALL
IH 43	457	---	---	976+83.06	118.1	RT	648.09	MANHOLES 5-FT DIAMETER	V	17.26	P458	---	457	459	630.83	629.32	4.37	35	37	III	30	---
RAMP HAA	481	---	---	969+38.50	19.0	LT	657.61	INLETS 4-FT DIAMETER	V	6.53	P482	---	481	483	651.08	642.13	3.50	256	259	III	24	---
RAMP HAA	483	---	---	971+97.19	5.2	RT	647.00	INLETS 2x2.5-FT	V	7.25	P484	---	483	485	639.75	630.61	3.50	261	265	IV	24	---
RAMP HAA	485	---	---	974+61.37	4.4	RT	635.48	INLETS 4-FT DIAMETER	V	5.05	P486	---	485	493	630.43	629.93	3.50	14	18	IV	24	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
RAMP HAA	487	---	---	973+22.12	10.2	RT	636.61	INLETS 4-FT DIAMETER	B	6.75	P488	---	487	489	629.86	629.25	0.50	121	125	III	15	---
RAMP HAA	489	---	---	974+47.13	9.5	RT	635.26	INLETS 4-FT DIAMETER	B	6.01	P490	---	489	491	629.25	628.86	1.44	27	31	III	15	---
RAMP HAA	491	---	---	974+77.59	13.2	RT	633.05	MANHOLES 4-FT DIAMETER	J-SPECIAL	4.19	P492	---	491	493	628.86	628.80	1.38	5	9	IV	15	---
RAMP HAA	493	---	---	974+79.65	4.8	RT	634.80	MANHOLES 4-FT DIAMETER	J-SPECIAL	6.00	P494	---	493	495	628.80	625.69	2.22	140	144	IV	24	---
RAMP HAA	495	---	---	976+29.92	28.4	RT	629.78	INLETS 4-FT DIAMETER	H	4.09	P496	---	495	497	625.69	624.96	0.50	147	149	IV	24	TO ENDWALL
RAMP HAA	511	---	---	976+58.03	77.9	RT	627.70	INLETS 4-FT DIAMETER	V	3.17	P512	---	511	515	624.53	624.35	0.50	36	40	III	15	---
RAMP HAA	513	---	---	977+46.79	133.7	RT	630.32	INLETS 4-FT DIAMETER	H	5.39	P514	---	513	515	624.93	624.60	0.50	66	70	IV	15	---
RAMP HAA	515	---	---	977+28.28	66.6	RT	628.26	INLETS 4-FT DIAMETER	H	3.91	P516	---	515	517	624.35	624.01	0.50	68	72	IV	15	---
RAMP HAA	517	---	---	977+85.36	8.0	RT	629.00	INLETS 4-FT DIAMETER	H	4.99	P518	---	517	519	624.01	623.87	0.50	28	32	IV	15	---
RAMP HAA	519	---	---	977+88.22	28.0	LT	628.92	INLETS 4-FT DIAMETER	H	5.05	P520	---	519	523	623.87	623.76	0.50	23	27	IV	15	---
RAMP HAA	521	---	---	978+09.79	53.2	LT	628.78	INLETS 4-FT DIAMETER	V	4.63	P522	---	521	523	624.15	624.00	1.00	15	19	IV	15	---
RAMP HAA	523	---	---	978+08.50	34.8	LT	628.70	INLETS 4-FT DIAMETER	V	4.94	P524	---	523	E535	623.76	623.59	0.50	33	37	IV	15	---
RAMP HAA	525	---	---	978+39.01	83.4	LT	629.52	INLETS 4-FT DIAMETER	V	5.32	P526	---	525	531	624.20	624.16	0.50	9	13	IV	15	---
RAMP HAA	527	---	---	978+45.93	83.1	LT	630.02	INLETS 4-FT DIAMETER	V	5.79	P528	---	527	529	624.23	624.19	0.50	9	13	IV	15	---
RAMP HAA	529	---	---	978+43.76	70.8	LT	629.85	INLETS 4-FT DIAMETER	V	5.66	P530	---	529	531	624.19	624.16	0.50	6	10	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
RAMP HAA	531	---	---	978+38.12	70.9	LT	629.38	INLETS 4-FT DIAMETER	V	5.22	P532	---	531	E535	624.16	624.00	0.50	32	36	IV	15	---
RAMP HAA	E535	---	---	978+47.79	36.6	LT	629.70	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
RAMP HAB	551	---	---	976+98.04	12.5	LT	640.81	INLETS 4-FT DIAMETER	HM	12.16	P552	---	551	E553	628.65	628.55	0.50	20	24	III	15	---
RAMP HAB	E553	---	---	976+98.23	34.9	LT	633.50	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
RAMP HAA	E559	---	---	978+51.32	71.3	RT	629.67	---	---	---	P560	---	E559	561	624.88	624.73	1.50	10	14	III	15	---
RAMP HAA	561	---	---	978+40.40	60.2	RT	629.68	INLETS 4-FT DIAMETER	V	9.04	P562	---	561	E563	620.64	620.47	1.50	11	15	III	15	---
RAMP HAA	E563	---	---	978+32.82	48.3	RT	629.82	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	--	PE600	---	---	601	--	---	---	---	---	---	8	EXIST PIPE INTERPOL ELEV
IH 43	601	---	---	982+22.30	100.2	RT	636.13	INLETS 4-FT DIAMETER	V	5.12	P602	---	601	603	631.01	630.92	1.00	9	13	IV	12	---
IH 43	603	---	---	982+13.29	100.2	RT	636.07	INLETS 4-FT DIAMETER	V	5.15	PE604	---	603	E607	630.92	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
IH 43	605	---	---	982+22.63	249.6	RT	634.50	INLETS 4-FT DIAMETER	V	6.29	PE606	---	605	E607	628.21	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
IH 43	E607	---	---	982+12.86	200.2	RT	635.27	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---
IH 43	611	---	---	986+23.40	204.3	RT	639.13	INLETS 4-FT DIAMETER	V	9.41	P612	---	611	613	629.72	626.15	7.65	47	51	III	15	---
IH 43	613	---	---	985+71.02	208.5	RT	639.57	MANHOLES 4-FT DIAMETER	J-SPECIAL	13.42	PE614	---	613	E615	626.15	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
IH 43	E615	---	---	985+27.36	266.6	RT	636.95	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	631	---	---	983+61.17	1.6	RT	656.48	INLETS 4-FT DIAMETER	V	7.18	P632	---	631	633	649.30	648.63	0.60	111	115	III	24	---
IH 43	633	---	---	984+76.26	4.8	RT	655.82	INLETS 4-FT DIAMETER	HM	7.19	P634	---	633	635	648.63	648.57	1.00	6	10	III	24	---
IH 43	635	---	---	984+86.28	4.8	RT	655.73	INLETS 4-FT DIAMETER	HM	7.25	P636	---	635	637	648.48	644.27	1.70	248	252	III	24	---
IH 43	637	---	---	987+37.76	4.5	LT	651.40	INLETS 4-FT DIAMETER	HM	7.13	P638	---	637	639	644.27	637.19	2.85	249	253	III	24	---
IH 43	639	---	---	989+89.12	23.5	LT	644.32	INLETS 4-FT DIAMETER	HM	7.29	P640	---	639	641	637.03	630.72	3.00	210	214	III	24	---
IH 43	641	---	---	992+03.06	38.7	LT	637.86	INLETS 4-FT DIAMETER	HM	7.26	P642	---	641	643	630.60	629.65	3.00	32	36	III	24	---
IH 43	643	---	---	992+38.51	41.3	LT	636.78	INLETS 4-FT DIAMETER	HM	7.25	P644	---	643	663	629.53	622.31	3.00	241	245	III	24	---
IH 43	---	---	---	---	---	---	---	---	---	--	P662	---	661	663	630.69	622.77	89.03	9	11	III	18	FROM ENDWALL
IH 43	663	---	---	994+85.97	56.2	LT	629.44	MANHOLES 5-FT DIAMETER	HM	7.17	P664	---	663	671	622.27	618.13	1.70	244	249	IV	24	---
IH 43	671	---	---	997+42.13	56.9	LT	624.00	MANHOLES 5-FT DIAMETER	V	5.87	P672	---	671	673	618.13	617.06	0.89	120	125	IV	24	---
IH 43	673	---	---	998+67.19	56.0	LT	621.89	MANHOLES 5-FT DIAMETER	V	4.83	P674	---	673	675	617.06	616.70	0.30	120	125	III	24	---
IH 43	675	---	---	999+92.19	56.0	LT	620.72	MANHOLES 5-FT DIAMETER	V	4.02	P676	---	675	683	616.70	616.49	0.30	70	75	HE-IV	24x38	---
IH 43	---	---	---	---	---	---	---	---	---	--	P682	---	681	683	618.72	616.49	24.80	9	12	III	24	FROM ENDWALL
IH 43	683	---	---	1000+67.19	56.0	LT	620.53	MANHOLES 6-FT DIAMETER	V	4.04	P684	---	683	691	616.49	616.28	0.30	69	75	HE-IV	24x38	---
IH 43	---	---	---	---	---	---	---	---	---	--	P690	---	689	691	618.77	616.28	27.60	9	12	III	24	FROM ENDWALL

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	691	---	---	1001+42.19	56.0	LT	620.55	MANHOLES 6-FT DIAMETER	V	4.27	P692	---	691	693	616.28	616.17	0.30	37	43	HE-IV	24x38	---
IH 43	693	---	---	1001+84.78	56.0	LT	620.58	MANHOLES 5-FT DIAMETER	V	4.41	P694	---	693	735	616.17	616.15	0.30	6	11	HE-IV	24x38	---
IH 43	701	---	---	996+17.44	6.4	RT	628.11	INLETS 4-FT DIAMETER	V	7.13	P702	---	701	703	620.98	617.80	2.63	121	125	IV	24	---
IH 43	703	---	---	997+42.19	3.3	RT	625.08	INLETS 4-FT DIAMETER	V	7.56	P704	---	703	705	617.52	617.23	0.30	96	100	IV	24	---
IH 43	705	---	---	998+42.19	3.3	RT	623.01	INLETS 4-FT DIAMETER	V	5.78	P706	---	705	709	617.23	616.79	0.30	146	150	IV	24	---
IH 43	707	---	---	999+92.19	3.3	LT	621.42	INLETS 4-FT DIAMETER	V	4.55	P708	---	707	709	616.87	616.85	0.30	7	11	IV	15	---
IH 43	709	---	---	999+92.19	3.3	RT	621.08	MANHOLES 5-FT DIAMETER	V	4.29	P710	---	709	723	616.79	616.62	0.30	56	61	IV	24	---
IH 43	721	---	---	1000+53.41	3.3	LT	621.08	INLETS 4-FT DIAMETER	V	4.29	P722	---	721	723	616.79	616.77	0.30	7	11	IV	15	---
IH 43	723	---	---	1000+53.43	3.3	RT	620.73	MANHOLES 5-FT DIAMETER	V	4.11	P724	---	723	727	616.62	616.47	0.30	50	55	IV	24	---
IH 43	725	---	---	1001+05.18	3.3	LT	621.00	INLETS 4-FT DIAMETER	V	4.34	P726	---	725	727	616.66	616.62	0.50	7	12	IV	15	---
IH 43	727	---	---	1001+08.96	3.3	RT	620.65	MANHOLES 5-FT DIAMETER	V	4.18	P728	---	727	729	616.47	616.38	0.30	31	35	IV	24	---
IH 43	729	---	---	1001+44.01	5.0	RT	620.69	INLETS 4-FT DIAMETER	V	4.31	P730	---	729	731	616.38	616.35	0.50	6	10	IV	24	---
IH 43	731	---	---	1001+50.95	0.0	RT	621.08	INLETS 4-FT DIAMETER	B	4.73	P732	---	731	733	616.35	616.32	0.50	7	11	IV	24	---
IH 43	733	---	---	1001+58.83	5.8	LT	621.17	INLETS 4-FT DIAMETER	V	4.85	P734	---	733	735	616.32	616.15	0.37	46	51	IV	24	---
IH 43	735	---	---	1001+92.50	45.5	LT	620.81	MANHOLES 6-FT DIAMETER	J-SPECIAL	4.66	P736	---	735	901	616.15	615.86	0.20	142	150	HE-IV	29x45	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	781	---	---	984+86.02	80.1	RT	654.78	INLETS 4-FT DIAMETER	B	7.13	P782	---	781	783	647.65	647.31	0.50	68	73	III	24	---
IH 43	783	---	---	984+85.75	155.3	RT	654.69	MANHOLES 5-FT DIAMETER	HM	7.38	P784	---	783	787	647.31	641.17	2.52	243	248	III	24	---
IH 43	785	---	---	987+42.71	70.6	RT	648.96	INLETS 4-FT DIAMETER	B	7.45	P786	---	785	787	641.51	641.17	0.50	68	73	III	24	---
IH 43	787	---	---	987+47.93	145.7	RT	648.29	MANHOLES 5-FT DIAMETER	HM	7.12	P788	---	787	789	641.17	638.84	2.48	94	98	III	24	---
IH 43	789	---	---	988+51.14	138.3	RT	645.91	INLETS 4-FT DIAMETER	HM	7.07	P790	---	789	791	638.84	636.94	2.00	95	99	III	24	---
IH 43	791	---	---	989+51.86	130.0	RT	644.00	INLETS 4-FT DIAMETER	HM	7.06	P792	---	791	803	636.94	635.35	2.25	71	75	III	24	---
IH 43	801	---	---	990+20.28	48.7	RT	642.83	INLETS 4-FT DIAMETER	B	7.14	P802	---	801	803	635.69	635.35	0.50	68	73	III	24	---
IH 43	803	---	---	990+26.60	123.7	RT	642.57	MANHOLES 5-FT DIAMETER	HM	7.22	P804	---	803	805	635.35	629.84	2.62	210	215	III	24	---
IH 43	805	---	---	992+40.81	105.4	RT	638.45	INLETS 4-FT DIAMETER	HM	8.61	P806	---	805	809	629.84	629.70	2.50	6	10	III	24	---
IH 43	807	---	---	992+44.49	29.8	RT	637.18	MANHOLES 5-FT DIAMETER	B	7.14	P808	---	807	809	630.04	629.70	0.50	67	72	III	24	---
IH 43	809	---	---	992+50.77	104.4	RT	638.26	MANHOLES 5-FT DIAMETER	HM	8.56	P810	---	809	815	629.70	623.66	2.45	247	253	III	24	---
IH 43	811	---	---	993+69.05	19.3	RT	633.84	INLETS 4-FT DIAMETER	B	9.34	P812	---	811	813	624.50	623.90	0.50	121	125	III	24	---
IH 43	813	---	---	994+93.10	13.0	RT	630.94	MANHOLES 5-FT DIAMETER	V	7.04	P814	---	813	815	623.90	623.66	0.50	48	54	III	24	---
IH 43	815	---	---	994+96.83	72.5	RT	633.34	MANHOLES 7-FT DIAMETER	HM	9.68	P816	---	815	831	623.66	617.72	2.40	248	254	III	24	---
IH 43	831	---	---	997+42.24	56.0	RT	626.20	MANHOLES 6-FT DIAMETER	HM	8.90	P832	---	831	835	617.30	616.57	0.30	244	250	HE-IV	29x45	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	833	---	---	999+92.19	56.0	RT	620.78	INLETS 4-FT DIAMETER	V	4.02	P834	---	833	835	616.76	616.75	0.50	4	9	IV	18	---
IH 43	835	---	---	999+92.19	45.5	RT	621.10	MANHOLES 6-FT DIAMETER	J-SPECIAL	4.53	P836	---	835	843	616.57	616.33	0.20	119	125	HE-IV	29x45	---
IH 43	837	---	---	1000+67.19	56.0	RT	620.23	INLETS 4-FT DIAMETER	V	3.58	P838	---	837	841	616.65	616.51	0.30	46	50	IV	18	---
IH 43	839	---	---	1001+36.15	56.0	RT	620.51	INLETS 4-FT DIAMETER	V	3.96	P840	---	839	841	616.55	616.51	0.30	15	19	IV	18	---
IH 43	841	---	---	1001+17.23	56.0	RT	620.34	INLETS 4-FT DIAMETER	V	3.83	P842	---	841	843	616.51	616.50	0.30	4	9	IV	18	---
IH 43	843	---	---	1001+17.19	45.5	RT	620.52	MANHOLES 6-FT DIAMETER	J-SPECIAL	4.18	P844	---	843	851	616.34	616.19	0.20	77	83	HE-IV	29x45	---
IH 43	---	---	---	---	---	---	---	---	---	--	P850	---	E849	851	616.32	616.23	1.19	7	10	IV	18	FROM ENDWALL
IH 43	851	---	---	1001+99.94	49.4	RT	621.26	MANHOLES 6-FT DIAMETER	J-SPECIAL	5.07	P852	---	851	853	616.19	615.99	0.15	134	142	HE-IV	34x53	---
IH 43	853	---	---	1003+42.19	49.5	RT	623.70	MANHOLES 10-FT DIAMETER	J-SPECIAL	7.71	P854	---	853	891	615.99	615.94	0.15	35	43	HE-IV	34x53	---
IH 43	871	---	---	1001+92.19	6.0	RT	620.85	INLETS 4-FT DIAMETER	V	4.43	P872	---	871	877	616.42	616.28	0.30	46	50	IV	24	---
IH 43	873	---	---	1002+23.12	0.0	RT	620.84	INLETS 4-FT DIAMETER	B	4.48	P874	---	873	875	616.36	616.31	0.30	16	20	IV	15	---
IH 43	875	---	---	1002+42.19	4.7	LT	621.73	INLETS 4-FT DIAMETER	V	5.42	P876	---	875	877	616.31	616.28	0.30	9	13	IV	15	---
IH 43	877	---	---	1002+42.19	4.7	RT	621.12	INLETS 4-FT DIAMETER	V	4.84	P878	---	877	879	616.28	616.14	0.30	46	50	IV	24	---
IH 43	879	---	---	1002+92.19	3.0	RT	621.49	INLETS 4-FT DIAMETER	V	5.34	P880	---	879	891	616.15	616.01	0.30	45	50	IV	24	---
IH 43	891	---	---	1003+42.19	3.0	RT	621.91	MANHOLES 7-FT DIAMETER	V	5.97	P892	---	891	901	615.94	615.86	0.15	50	58	HE-IV	34x53	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	COVER STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	901	---	---	1003+42.17	56.0	LT	620.85	MANHOLES 9-FT SPECIAL	V	4.99	P902	---	901	903	615.86	615.80	0.15	38	47	HE-IV	38x60	---
IH 43	903	---	---	1003+89.69	56.1	LT	620.87	MANHOLES 9-FT SPECIAL	V	5.07	P904	---	903	905	615.80	615.78	0.15	12	21	HE-IV	38x60	---
IH 43	905	---	---	1003+98.74	70.2	LT	623.18	MANHOLES 8-FT DIAMETER	J-SPECIAL	7.40	P906	---	905	907	615.78	615.70	0.15	51	55	IV	48	TO ENDWALL
IH 43	919	---	---	1005+36.19	221.3	LT	618.60	MANHOLES 5-FT DIAMETER	J-SPECIAL	3.00	P920	---	919	PE921	615.60	615.53	0.17	39	41	III	36	---
IH 43	---	---	---	---	---	---	---	---	---	--	PE921	---	P920	---	615.53	615.52	---	---	---	---	36	TO EXISTING BOX CULVERT
IH 43	335	---	---	955+05.46	72.5	RT	650.50	MANHOLES 9-FT SPECIAL	J-SPECIAL	3.06	P2	---	335	3	647.44	647.16	0.50	56	63	III	30	---
IH 43	351	---	---	961+77.30	125.8	RT	654.50	MANHOLES 4-FT DIAMETER	J-SPECIAL	--	---	---	---	---	--	---	---	---	---	---	---	---
IH 43	3	---	---	954+83.82	143.8	RT	660.48	MANHOLES 4-FT DIAMETER	J-SPECIAL	13.32	P4	---	3	5	647.16	646.81	0.50	70	74	III	30	---
IH 43	5	---	---	955+26.26	204.6	RT	660.86	MANHOLES 4-FT DIAMETER	J-SPECIAL	14.05	P6	---	5	7	646.81	643.89	0.50	586	590	III	30	---
IH 43	7	---	---	961+00.16	169.5	RT	651.00	MANHOLES 4-FT DIAMETER	J-SPECIAL	7.11	P8	---	7	351	643.89	643.39	0.50	99	103	III	30	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

3

STORM SEWER STRUCTURE SUMMARY

611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.024 MANHOLES 9-FEET EACH	SPV.0060.8013 MANHOLES 10-FT SPECIAL EACH	611.3225 INLETS 2x2.5-FT EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0627 INLET COVERS TYPE HM EACH	611.0624 INLET COVERS TYPE H EACH	611.0654 INLET COVERS TYPE V EACH
12	32	10	5	1	4	1	22	82	33	22	1	22	5	86

STORM SEWER PIPE SUMMARY

608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF	608.2424 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	608.0434 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	SPV.0090.8003 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 38X60-INCH LF
770	469	756	6536	1982	416	124	13	405	106	2094	55	204	608	243	68

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY:MILWAUKEE	DRAINAGE QUANTITIES	SHEET: PRE_287	E

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

EXISTING ACCESS CONTROL ALONG I-43 IS ESTABLISHED FROM PREVIOUS PROJECT U 077-1(13). FOR THE LATEST ACCESS/ DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

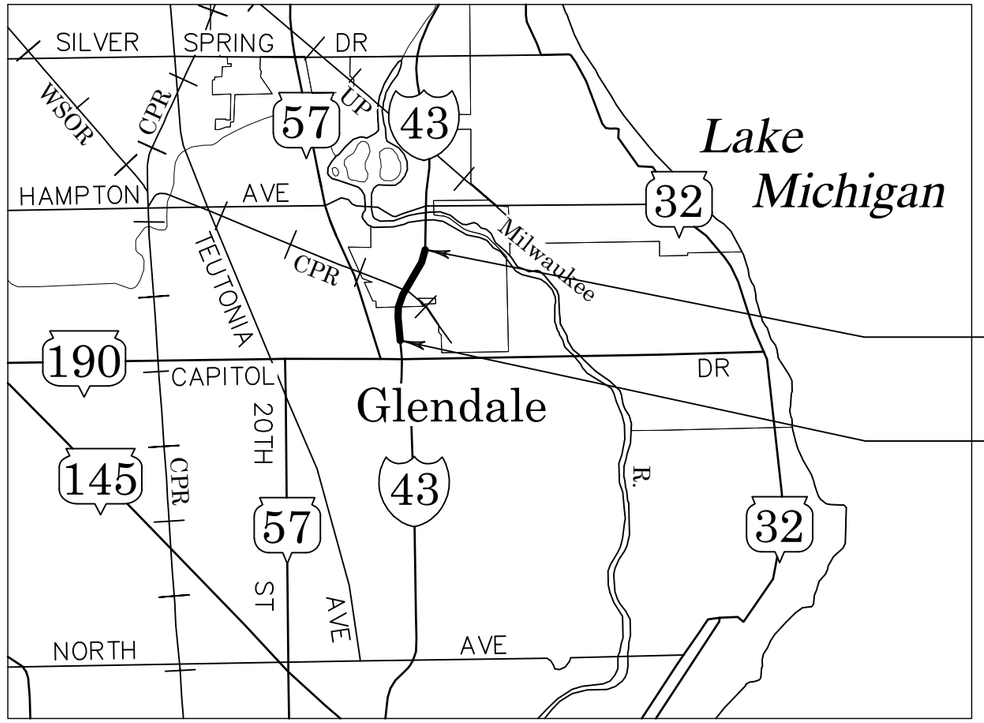
R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1228-22-21	4.01	7
FEDERAL PROJECT NUMBER ----------		

PLAT OF RIGHT-OF-WAY REQUIRED FOR

IH 43
NORTH-SOUTH FREEWAY
CAPITOL DRIVE TO HAMPTON AVENUE
MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER
1228-22-71

LOCATION MAP
NOT TO SCALE



END RELOCATION ORDER
STA. 968+00
322.7' WEST AND 1298.8' NORTH OF THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF SECTION 5 TOWNSHIP 7 NORTH RANGE 22 EAST.

BEGIN RELOCATION ORDER
STA. 932+00
1219.6' WEST AND 608.6' NORTH OF THE NORTHEAST CORNER OF THE NORTH 1/4 CORNER OF SECTION 8 TOWNSHIP 7 NORTH RANGE 22 EAST.

GN

T-7-N

R-22-E

TOTAL NET LENGTH OF CENTERLINE = 3600'

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DEED	D.		
DOCUMENT	DOC.	CURVE DATA	
EASEMENT	EASE.	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
IMAGE	I.	RADIUS	R
LAND CONTRACT	LC	DEGREE OF CURVE	D
MONUMENT	MON.	CENTRAL ANGLE OR DELTA	DELTA
PAGE	P.	LENGTH OF CURVE	L
PERMANENT LIMITED EASEMENT	PLE	TANGENT	TAN
PROPERTY LINE	PL		
RECORDED AS	(100')		
REEL	R.		
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	I.P. (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	|SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWBZ01	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-2	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

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

REVISION DATE
MAY 10, 2019
JAN. 22, 2020

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: NOV. 21, 2018 Robert A Dufficy (Signature)

PRE_288

E

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACREAGE COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.
*=CALCULATED **=SQUARE FEET

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED ACRES			TOTAL REMAINING ACRES	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	PARCEL NUMBER
					NEW	EXISTING	TOTAL				
1[2]	4.03	GLENDALE PARTNERS LLC.	FEE,TLE	27.499 *	2.079	2.75	4.829	22.670	0.663		1
2[3]	4.03	GLEN OAKS CEMETERY LLC.	FEE,TLE	41.317 *	0.115	0.00	0.115	41.202	0.047		2
3[3]	4.03	SBC GLENDALE AVE., LLC.	FEE,TLE	3.677	0.011	0.00	0.011	3.666	0.116		3
4[3]	4.04	CLEAR CHANNEL OUTDOOR, INC.	FEE	4.8871	0.596	0.00	0.596	4.291			4
5[3]	4.04	HOME DEPOT U.S.A., INC.	FEE,TLE	15.192	0.555	1.409	1.964	13.228	0.286		5
6[3]	4.04	NEW COVENANT MISSIONARY	FEE,TLE	4.24	0.048	0.00	0.048	4.192	0.081		6
7[3]	4.05	SPRECHER BREWING CO.	FEE,TLE	3.298 *	0.006	0.029	0.035	3.263	0.110		7
8[3]	4.05	GLENDALE INDUSTRIAL LLC.	FEE,TLE	3.263 *	0.002	0.007	0.009	3.254	0.051		8
9[3]	4.06	THOMAS E. & HAZEL J. JACKSON	TLE						76.686**		9
10[3]	4.06	STROLI REAL ESTATE LLC	TLE						35.516**		10
11[3]	4.06	MARK & SCOTT LLC	TLE						422.515**		11
12[3]	4.07	LONDON DABNEY	TLE						56.022**		12
13[3]	4.07	KIRK RENE REDMON & YOLANDA FUENTES	TLE						63.978**		13
UTILITY NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED								
50[3]	4.03,4.05	WE ENERGIES ELECTRIC	ROR								
51[3]	4.03,4.05	AT&T WISCONSIN	ROR								

4

REVISION DATE
MAY 10, 2019
JAN. 22, 2020

DATE NOV. 21, 2018
GRID FACTOR N/A

HWY: I-43
COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 1228-22-21
CONSTRUCTION PROJECT NUMBER 1228-22-71

PLAT SHEET 4.02
PS&E SHEET

FILE NAME : 040202_RS.DWG
LAYOUT NAME - 040202_RS
PLOT DATE : 1/28/2020 8:01 AM
PLOT BY : ZENDEK, WALTER C
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.02

4

CITY OF GLENDALE

R/L I-43
PI STA = 946+12.35
Y = 320090.649
X = 602552.365
DELTA = 40°16'45"
D = 3°34'52"
T = 586.77'
L = 1124.81'
R = 1600.00'
PC STA = 940+25.58
PT STA = 951+50.39

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
IH-43	PROJECT U 077-1(13)	VARIES	1958
IH-43	PROJECT 1228-00-20	VARIES	1982

GN

1 GLENDALE PARTNERS, LLC.

2 GLEN OAKS CEMETERY, LLC.

3 SBC GLENDALE AVE., LLC.

722016
Y=320755.00
X=601344.86
CONC. MON. WITH
SEWRPC BRASS CAP

722017
Y=320725.69
X=603965.16
CONC. MON. WITH
SEWRPC BRASS CAP

912.47' (WEST)

NOTE: PARCEL ACCESS TO GREEN BAY ROAD

NOTE: PARCEL ACCESS TO PORT WASHINGTON ROAD

CURVE CL1
L=1057.14'
R=1637.02'
LCH=1038.87'
LCB=S12°08'27"W
(RADIUS BEARS S60°00'E)

782.76' SOUTH AND PARALLEL TO 1/4 LINE

395.26' SOUTH AND PARALLEL TO 1/4 LINE

EXISTING CENTERLINE OF IH-43 PER PROJECT U 0771-(13)

406.10' (S30°00'W)

S30°38'27"W

S01°08'23"W

1/16 LINE

1/4 LINE

NW1/4-SW1/4

SW1/4-NW1/4

NE1/4-SW1/4

SE1/4-NW1/4

NORTH LINE OF OUTLOT 1

N89°21'33"W

N89°21'33"W 2620.46'

N33°56'18"E

N34°30'31"W

N44°55'19"E

S88°55'45"E
36.00'

PARCEL 2
CSM 6084
R.3520, I.730

CSM 7757

LOT 1
CSM 8056
DOC. 09614411

STA 953+81.72

946 948 950 952 954 956 958

R/L IH-43

TLE SLOPES

RAMP

UTILITY POLE

CITY OF GLENDALE
CITY OF MILWAUKEE

(50) WE ENERGIES ELECTRIC
DOC. 3765061
D.3971, P.23
PCL. 3

(51) AT&T WISCONSIN
DOC. 3765061
D.3971, P.23
PCL. 3

REVISION DATE			
MAY 10, 2019			
JAN. 22 2020			

DATE NOV. 21, 2018	SCALE, FEET 0 50 100	HWY: I-43	STATE R/W PROJECT NUMBER 1228-22-21	PLAT SHEET 4.03
GRID FACTOR		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1228-22-71	PS&E SHEET E

PRE_290

FILE NAME : 040403_RP.DWG
LAYOUT NAME - 040403_RP

PLOT DATE : 1/28/2020 7:52 AM PLOT BY : ZENDEK, WALTER C PLOT NAME : PLOT SCALE : 1 IN:100 FT

CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.03

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
IH-43	PROJECT U 077-1(13)	VARIES	1958
IH-43	PROJECT 1228-00-20	VARIES	1982

SIGN NUMBER	OWNER
5-1	KOSS CORPORATION

CURVE C2
L=259.92'
R=1802.02'
LCH=259.70'
LCB=S07°51'14"W

CURVE C3
L=392.15'
R=1802.02'
LCH=391.38'
LCB=S05°45'06"W

CURVE C5
L=259.73'
R=1702.02'
LCH=259.48'
LCB=N08°17'26"E

SUBCURVE C6
L=372.19'
R=1802.02'
LCH=371.53'
LCB=S06°04'09"W

SUBCURVE C7
L=19.96'
R=1802.02'
LCH=19.96'
LCB=S00°09'55"E

CITY OF MILWAUKEE

SEE REFERENCE LINE TIE DETAIL

STA 953+81.72
NORTH LINE OF OUTLOT 1 CSM 7757
44.00'
N00°38'27"E (NORTH) 33'
912.47'
1/4 LINE N89°21'33"W 2620.46'

722016
Y=320755.00
X=601344.86
CONC. MON. WITH SEWRPC BRASS CAP

SEE REFERENCE LINE TIE DETAIL

782.76' SOUTH AND PARALLEL TO 1/4 LINE

722017
Y=320725.69
X=603965.16
CONC. MON. WITH SEWRPC BRASS CAP

PT: 951+50.39

PRW411 944+57.18 137.45'
CITY OF GLENDALE
CITY OF MILWAUKEE
S89°21'33"E 168.63'
102.11'
IP
76.91'
944+95.91 104.98' PRW400
945+01.61 135.00' TLE413
CITY OF GLENDALE
CITY OF MILWAUKEE
INL
CURVE C2
77'
944+05.89 100.09' PRW401

R/L I-43
PI STA = 946+12.35
Y = 320090.649
X = 602552.365
DELTA = 40°16'45"
D = 3°34'52"
T = 586.77'
L = 1124.81'
R = 1600.00'
PC STA = 940+25.58
PT STA = 951+50.39
LCH = 1101.79'
LCB = N13°47'56"E

CURVE C4
L=84.39'
R=1562.02'
LCH=84.38'
LCB=S12°12'37"W

TLE SLOPES

SIGN
100'
944
R/L IH-43
CURVE C5
CURVE C2
4
CLEAR CHANNEL OUTDOOR INC
N00°32'05"E 163.84'
135'
65'
75'
100.18'
70.18' PL
N89°37'55"W
30.00'
5-1
MH
942
CURVE CL1
83'
CANOPY
5
HOME DEPOT USA INC
N00°32'05"E 112.49'
940+74.07 104.45' PRW406
S29°14'38"E 30.00'
940+44.65 116.71' PRW407
940+10.90 135.07' TLE414
6
NEW COVENANT MISSIONARY
SUBCURVE C6
SUBCURVE C3
136.20'
TLE415 941+16.83 157.32'
SUBCURVE C7
PRW410 940+98.69 158.44'
N14°20'23"E
GUY
N89°27'17"W 245.00'
PC: 940+25.58
940
CURVE CL1
L=1057.14'
R=1637.02'
LCH=1038.87'
LCB=S12°08'27"W
(RADIUS BEARS S60°00'E)
S12°20'28"W 287.11'
5
HOME DEPOT USA INC
TLE FENCE REMOVAL
296.17'
153.27'
S
INL
MH
PL
40'
S00°51'46"W 34.00'
S06°21'33"E 74.48'
NW1/4-SW1/4
NE1/4-SW1/4
SW1/4-SW1/4
SE1/4-SW1/4
NORTH LINE OF KRIZ PARK
GUY
SIGN

TLE FENCE REMOVAL
PRW409 939+61.89 210.97'
PRW408 939+23.31 215.85'
TLE416 939+29.86 228.41'
TLE422 939+24.45 225.26'
209.37'
N00°51'46"E 38.92'
TLE417 939+40.66 317.76'
5'
N00°32'43"E 5.00'
90.00'
N89°27'17"W
15.77'
9.48'
TLE418 939+35.69 318.36'
TLE419 939+33.80 302.70'
N00°51'46"E 26.00'
PL
N89°27'17"W 66.00'
S23°39'55"W 28.20'
TLE420 939+08.01 305.96'
TLE421 939+00.09 240.43'

REFERENCE LINE TIE DETAIL

STA 953+81.72
NORTH LINE OF OUTLOT 1 CSM 7757
44.00'
N00°38'27"E (NORTH) 33'
33'
N89°21'33"W
1/4 LINE
912.47' (WEST)
PT: 951+50.39
952
N/L IH-43
N33°55'18"E
EXISTING CENTERLINE OF IH-43 PER PROJECT U 077-1(13)
S30°38'27"W (S30°00'W) 406.10' TO CURVE CL1

ALL DETAILS NOT TO SCALE

10.41' S89°27'55"E
942+30.77 110.41' PRW402
942+30.68 100.00' PRW403
N00°32'05"E 33.76'
SIGN
941+94.67 99.90' PRW404
N89°27'55"W 10.41'
941+94.51 110.31' PRW405

GN

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REVISION DATE
MAY 10, 2019
JAN. 22, 2020

DATE NOV. 21, 2018
GRID FACTOR

SCALE, FEET
0 50 100

HWY: I-43
COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 1228-22-21
CONSTRUCTION PROJECT NUMBER 1228-22-71

PLAT SHEET 4.04
PS&E SHEET E

PRE_291

FILE NAME : 040404_RP.DWG
LAYOUT NAME - 040404_RP

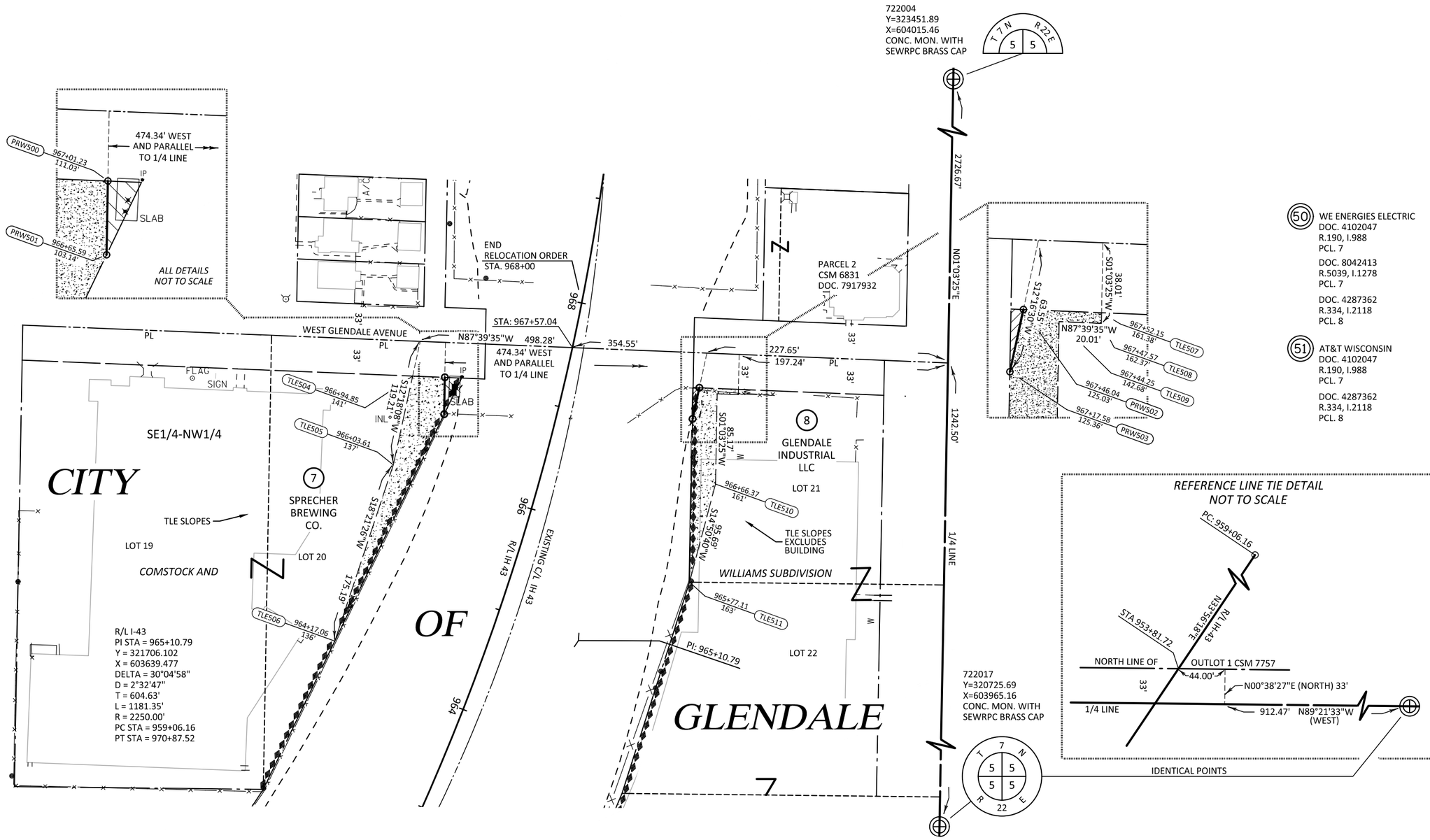
PLOT DATE : 1/28/2020 6:20 AM PLOT BY : ZENDEK, WALTER C PLOT NAME : PLOT SCALE : 1 IN:100 FT

CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.04

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
IH-43	PROJECT U 077-1(13)	VARIES	1958

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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50 WE ENERGIES ELECTRIC
DOC. 4102047
R.190, I.988
PCL. 7

DOC. 8042413
R.5039, I.1278
PCL. 7

DOC. 4287362
R.334, I.2118
PCL. 8

51 AT&T WISCONSIN
DOC. 4102047
R.190, I.988
PCL. 7

DOC. 4287362
R.334, I.2118
PCL. 8

REVISION DATE
MAY 10, 2019
JAN. 22, 2020

DATE: NOV. 21, 2018

GRID FACTOR: N/A

SCALE, FEET
0 50 100

HWY: I-43

COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 1228-22-21

CONSTRUCTION PROJECT NUMBER 1228-22-71

PLAT SHEET 4.05

PS&E SHEET E

PRE_292

FILE NAME : 040405_RP.DWG
LAYOUT NAME - 040405_RP

PLOT DATE : 1/28/2020 6:20 AM PLOT BY : ZENDEK, WALTER C PLOT NAME : PLOT SCALE : 1 IN:100 FT

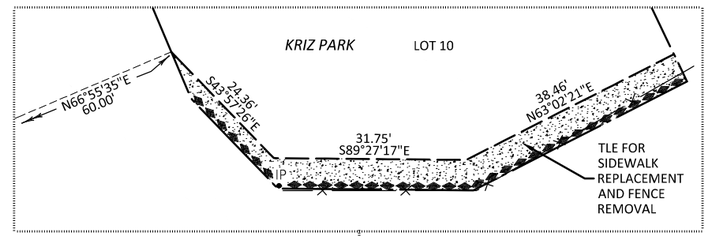
CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.05

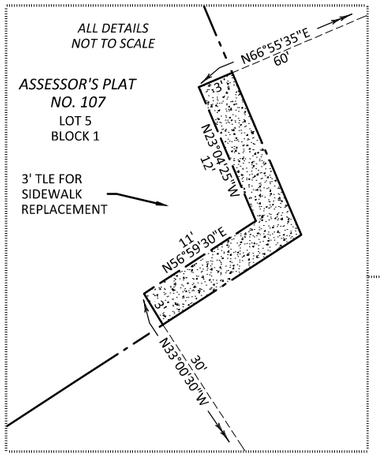
POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

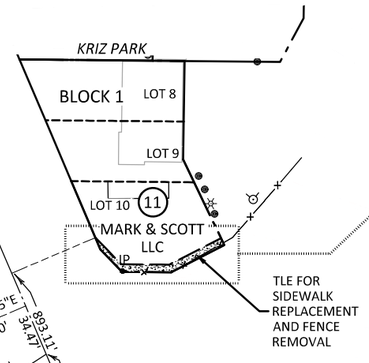
EXISTING ACCESS CONTROL ALONG I-43 IS ESTABLISHED FROM PREVIOUS PROJECT U 077-1(13). FOR THE LATEST ACCESS/ DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

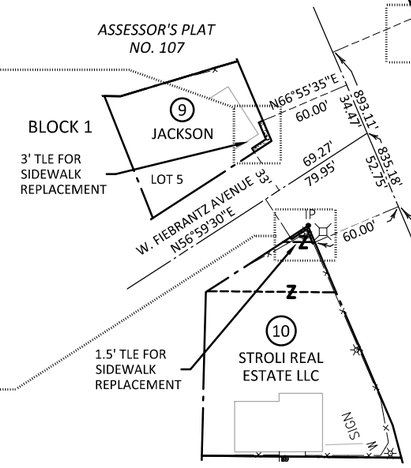
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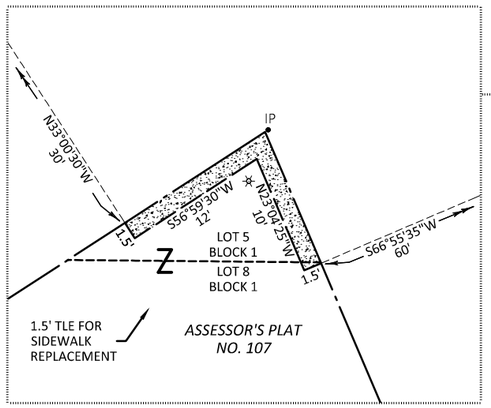
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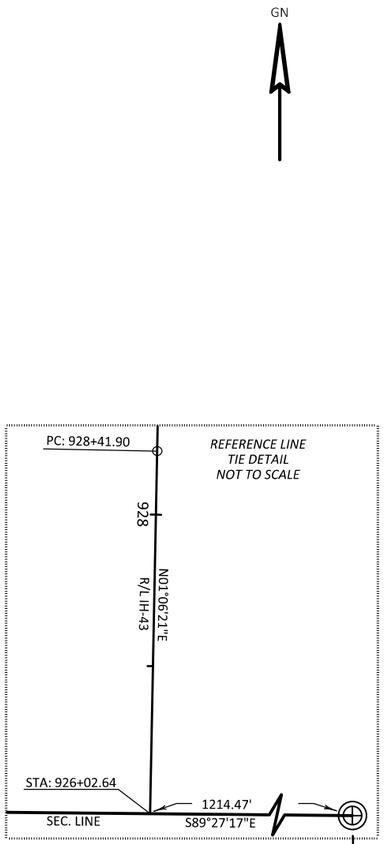




CITY OF MILWAUKEE



R/L IH-43
PI STA = 930+92.25
Y = 318579.147
X = 602720.326
DELTA = 7°26'47"
D = 1°29'21"
T = 250.35'
L = 500.00'
R = 3847.16'
LCH=499.65'
LCB=N02°37'03"W
PC STA = 928+41.90
PT STA = 933+41.90



BEGIN RELOCATION ORDER STA. 932+00

IDENTICAL POINTS

SW1/4-SW1/4 SE1/4-SW1/4

S89°27'17"E (1139.95') 1140.13' SEC. LINE 1214.47' 2646.11'

722029
Y=318103.25
X=601279.31
CONC MON WITH SEWRPC BRASS CAP

722030
Y=318078.08
X=603925.29
CONC MON WITH SEWRPC BRASS CAP

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
IH-43	PROJECT U 077-1(13)	VARIES	1958
GREEN BAY AVE.	PROJECT U5709-(3)	120'	1956

REVISION DATE MAY 10, 2019 JAN. 22, 2020	DATE: NOV. 21, 2018 GRID FACTOR: N/A	SCALE, FEET 0 50 100	HWY: I-43 COUNTY: MILWAUKEE	STATE R/W PROJECT NUMBER 1228-22-21 CONSTRUCTION PROJECT NUMBER 1228-22-71	PLAT SHEET 4.06 PS&E SHEET E

PRE_293

FILE NAME : 040406_RP.DWG
LAYOUT NAME - 040406_RP
PLOT DATE : 1/28/2020 6:53 AM PLOT BY : ZENDEK, WALTER C PLOT NAME : PLOT SCALE : 1 IN:100 FT

CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.06

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

EXISTING ACCESS CONTROL ALONG I-43 IS ESTABLISHED FROM PREVIOUS PROJECT U 077-1(13). FOR THE LATEST ACCESS/ DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

4

4

R/L I-43 ON RAMP
PI STA = 936+25.56
Y = 319035.206
X = 602787.971
DELTA = 59°10'09"
D = 8°38'31"
T = 376.40'
L = 684.68'
R = 663.00'
PC STA = 932+49.16
PT STA = 939+33.84

R/L IH-43
N06°20'27"W

938
936
934
932
935

PI: 936+25.56

CITY

OF

MILWAUKEE

R/L I-43
PI STA = 930+92.25
Y = 318579.147
X = 602720.326
DELTA = 7°26'47"
D = 1°29'21"
T = 250.35'
L = 500.00'
R = 3847.16'
PC STA = 928+41.90
PT STA = 933+41.90

PT: 933+41.90

PC: 932+49.16

SE1/4-SW1/4

STA: 926+02.64

1214.47'

722029
Y=318103.25
X=601279.31
CONC MON WITH
SEWRPC BRASS CAP

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
IH-43	PROJECT U 077-1(13)	VARIES	1958

GN

H.A. SCHWARTZBURG'S
BLOCK 3
LOT 5
LOT 6

N. 7TH STREET

SUBDIVISION
BLOCK 2
12
LOT 7
DABNEY

W. FIEBRANTZ AVENUE

IP
LOT 1
LOT 2
GROVER
BLOCK 3

LOT 14
HEIGHTS
BLOCK 2
LOT 13
13
REDMON &
FUENTES

TLE FOR
SIDEWALK
REPLACEMENT

TLE FOR
SIDEWALK
REPLACEMENT

ALL DETAILS
NOT TO SCALE
12'
2'
LOT 7
18'
2'

2'
17'
2'
17'
LOT 14

PC: 928+41.90
REFERENCE LINE
TIE DETAIL
NOT TO SCALE
928
N01°06'21"E
R/L IH-43
STA: 926+02.64
1214.47'
SEC. LINE
S89°27'17"E

722030
Y=318078.08
X=603925.29
CONC MON WITH
SEWRPC BRASS CAP

IDENTICAL POINTS

REVISION DATE			
MAY 10, 2019			
JAN. 22, 2020			

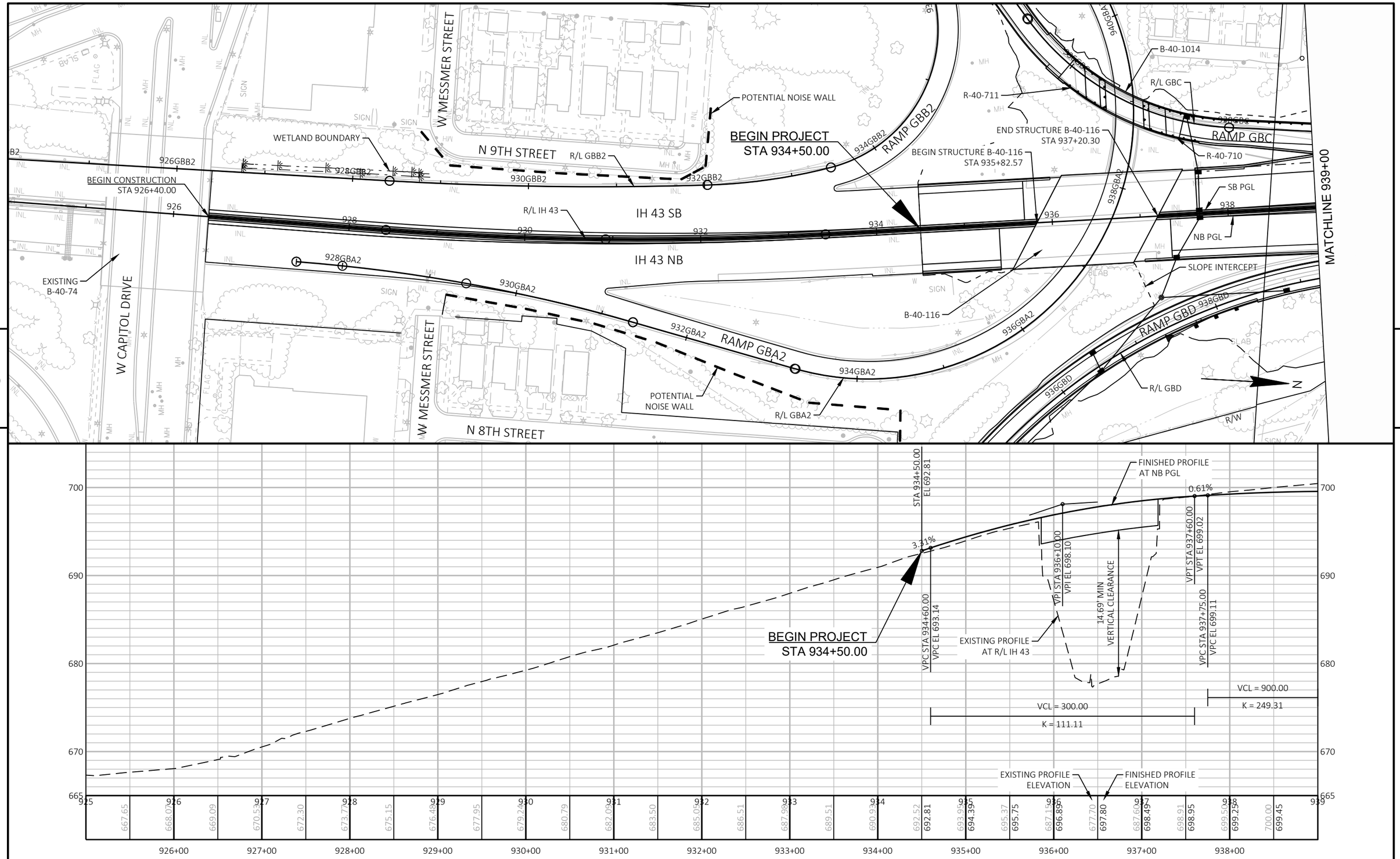
DATE: NOV. 21, 2018	SCALE, FEET 0 50 100	HWY: I-43	STATE R/W PROJECT NUMBER 1228-22-21	PLAT SHEET 4.07
GRID FACTOR: N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 1228-22-71	PS&E SHEET E

PRE_294

FILE NAME : 040407_RP.DWG
LAYOUT NAME - 040407_RP

PLOT DATE : 1/28/2020 6:20 AM PLOT BY : ZENDEK, WALTER C PLOT NAME : PLOT SCALE : 1 IN:100 FT

CONST. I.D. 1228-22-71 1228-22-21 IH-43 4.07



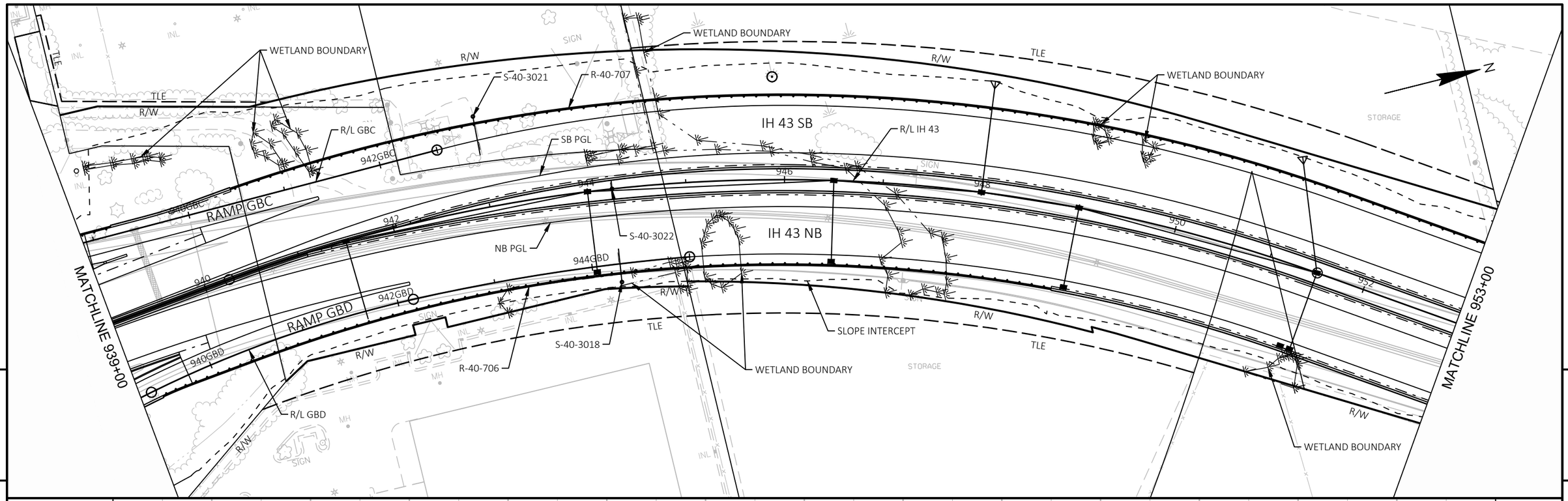
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

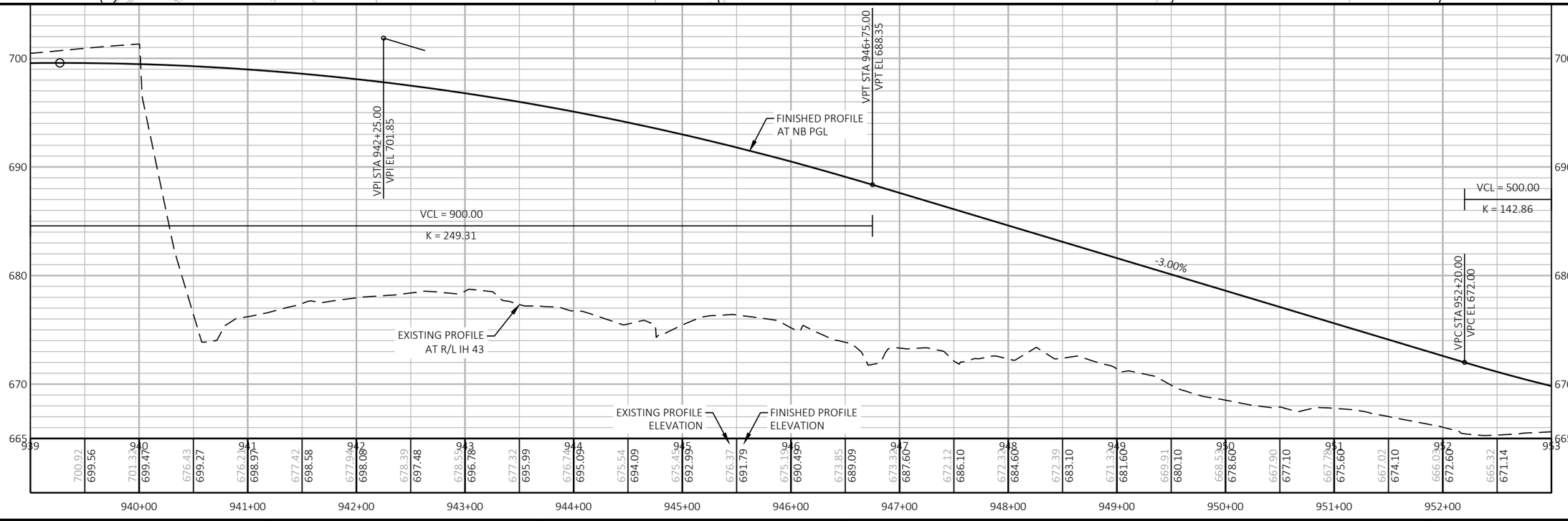
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:04 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_295

WISDOT/CADDS SHEET 44





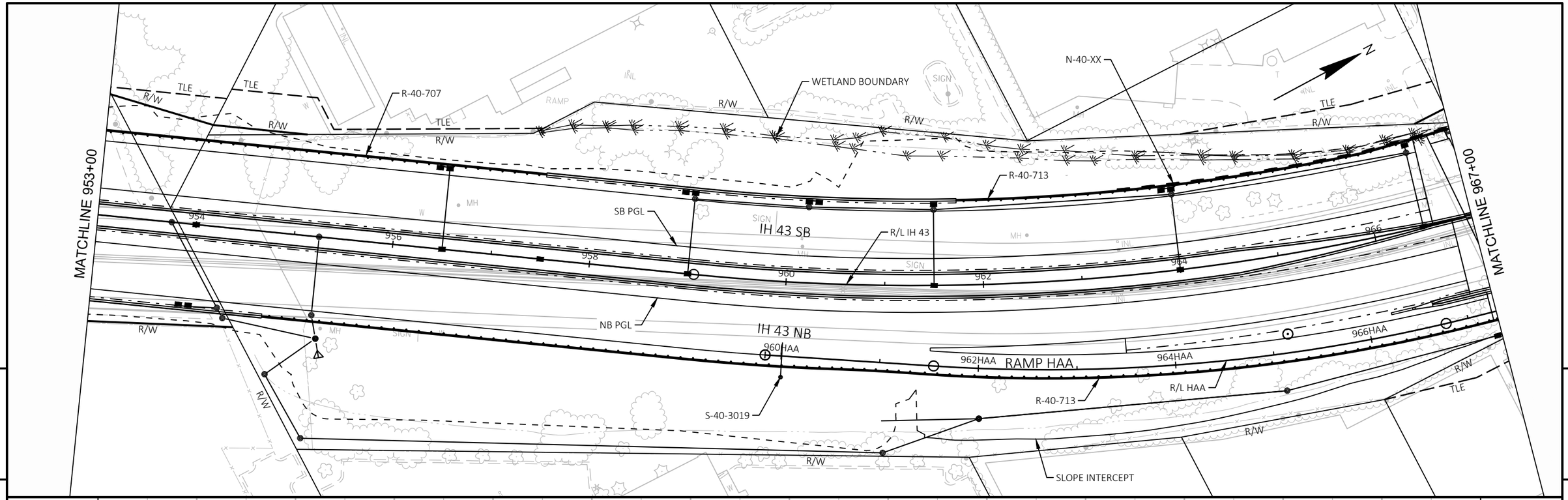
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

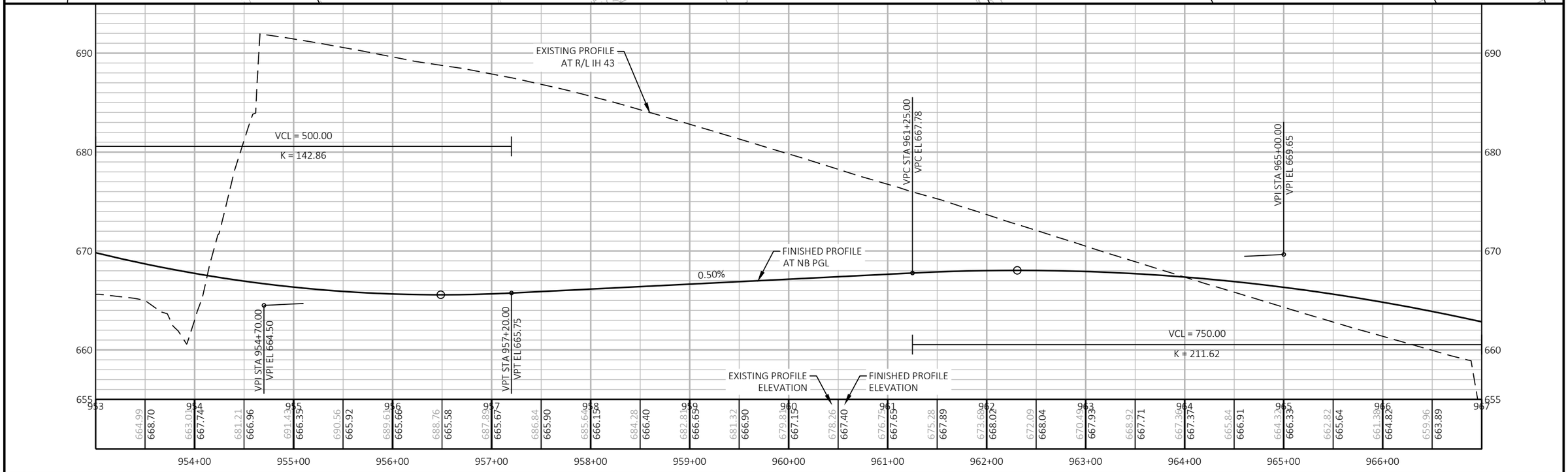
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 12:04 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_296

WISDOT/CADDS SHEET 44





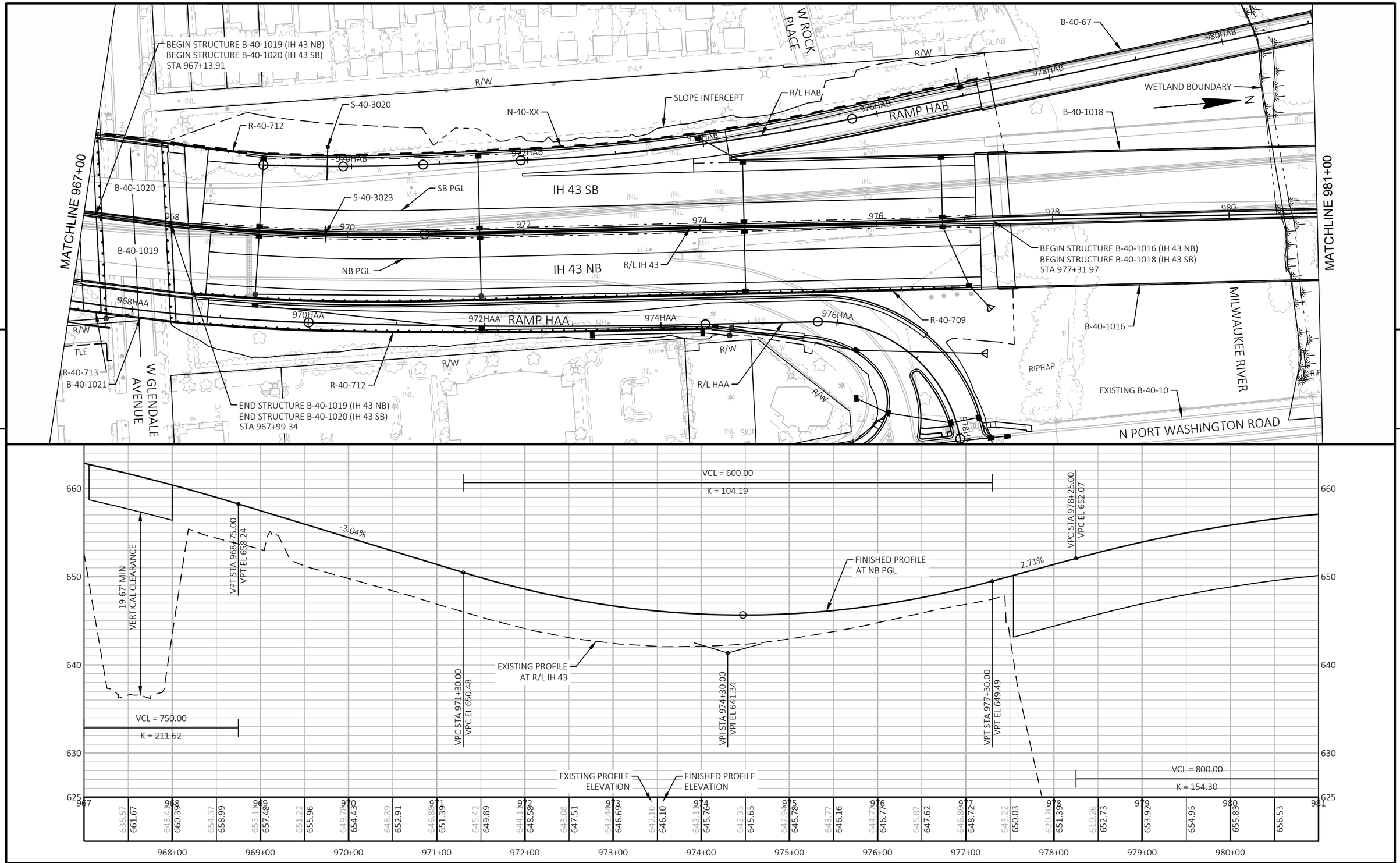
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 12:05 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_297

WISDOT/CADDS SHEET 44



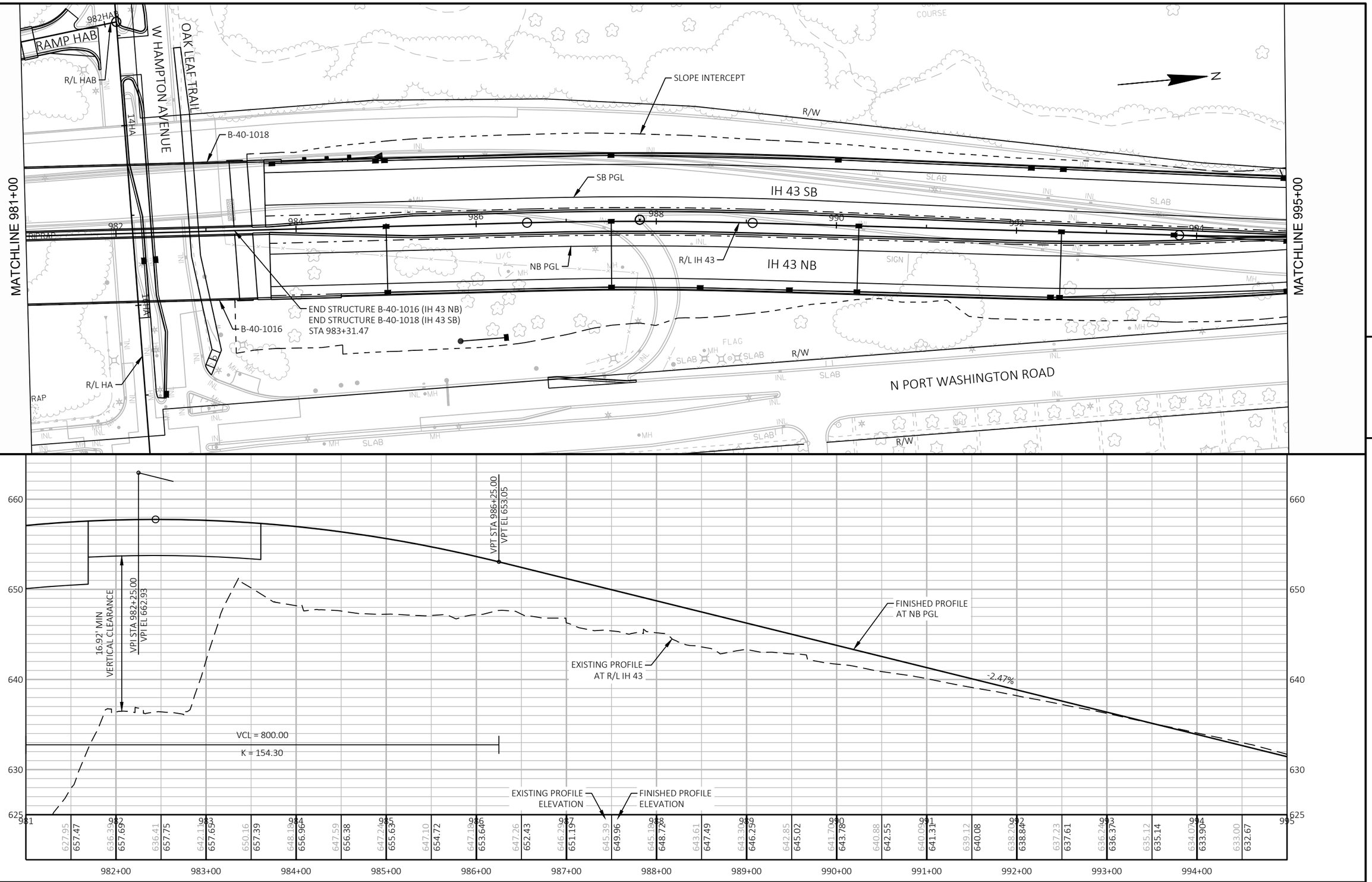
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

PRE_298

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 04

PLOT DATE : 2/14/2020 12:05 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



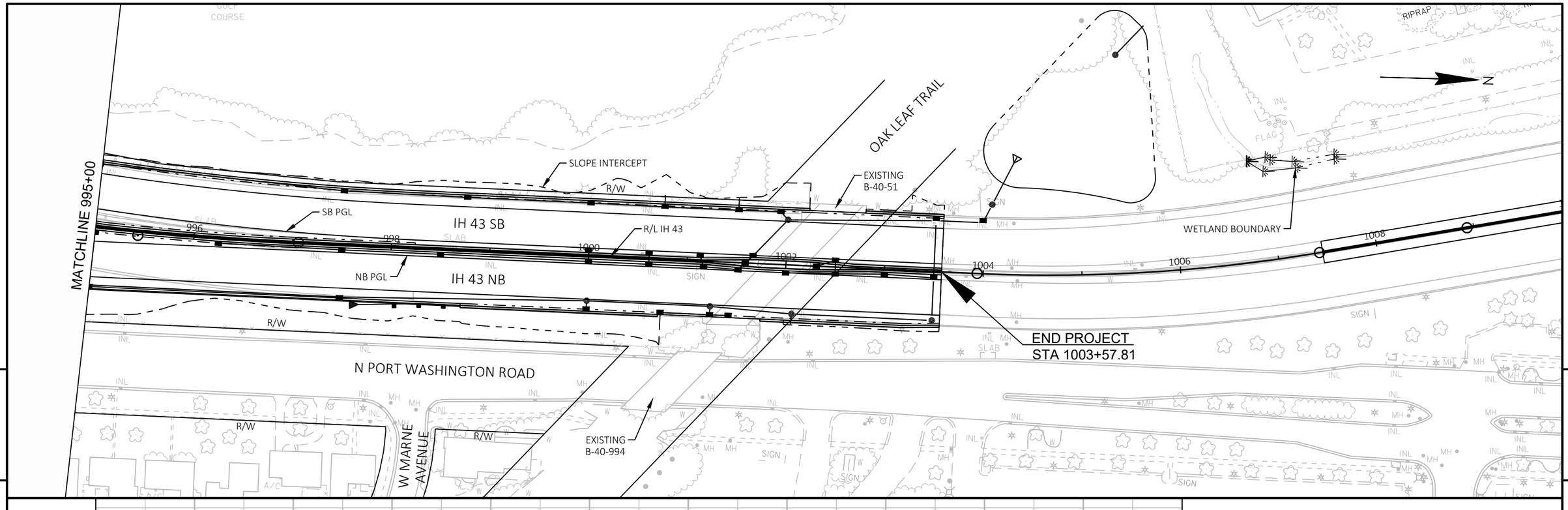
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

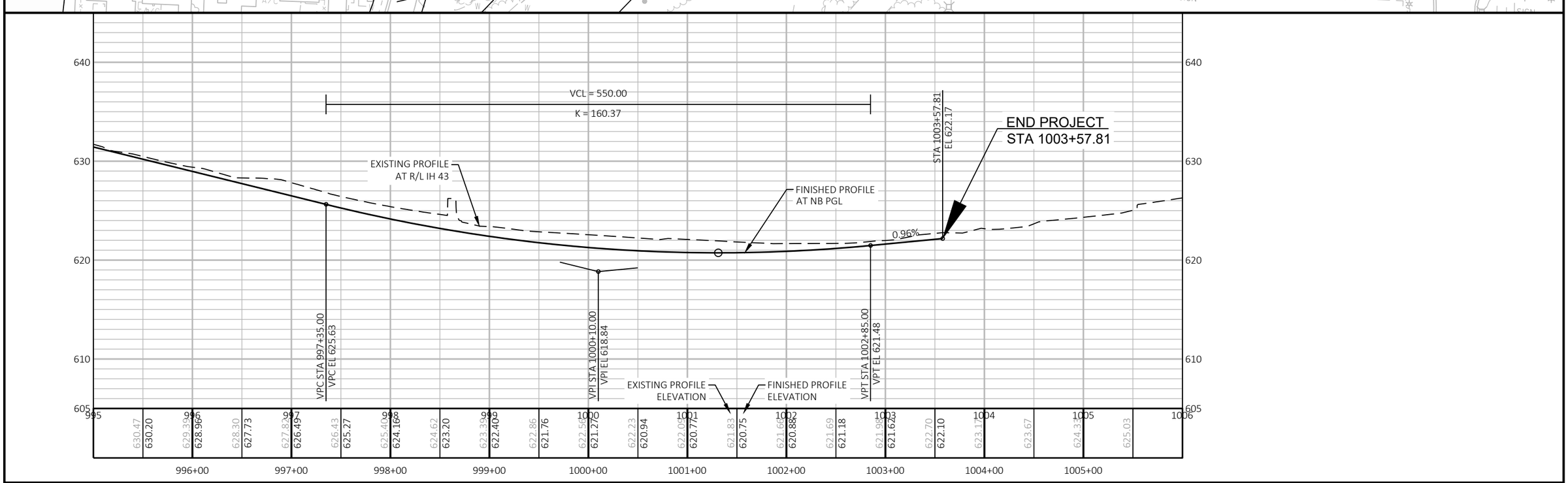
PRE_299

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 12:05 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





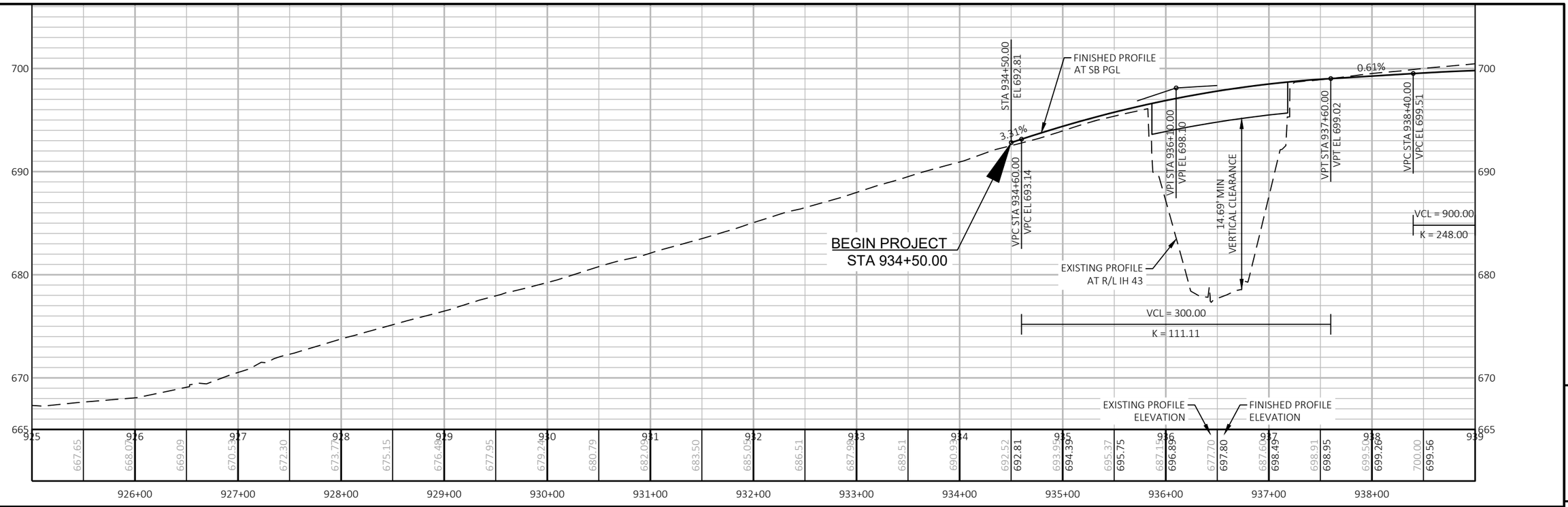
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: IH 43 NB	SHEET E

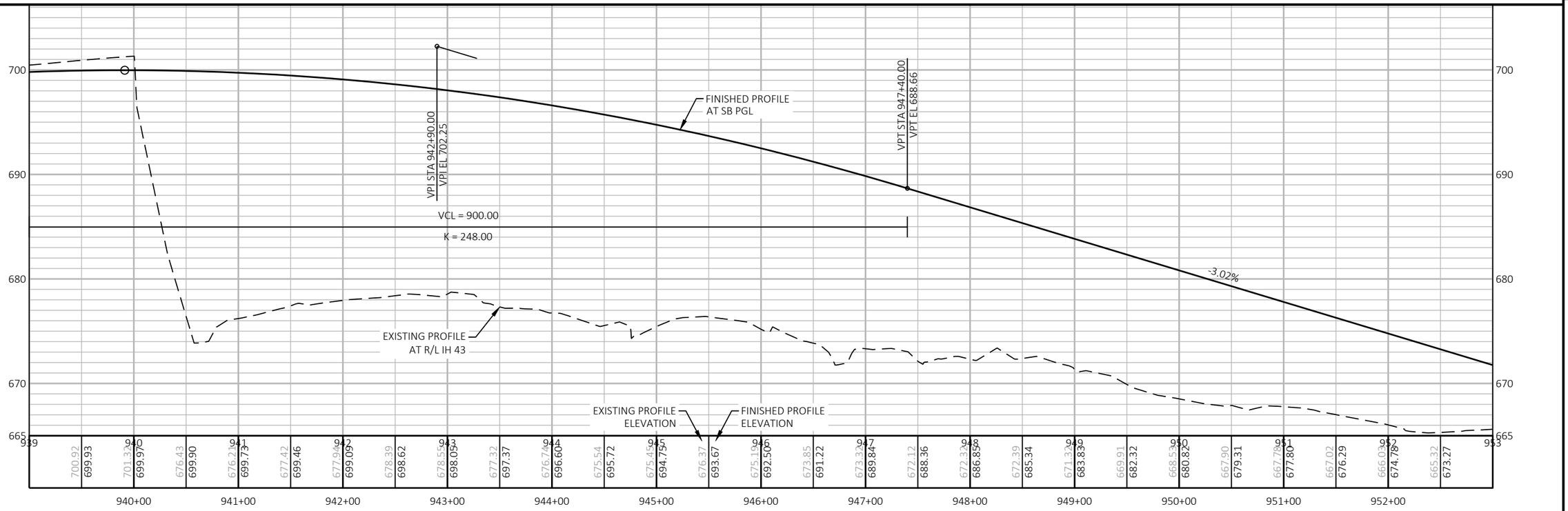
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050101-PP_NB.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 12:06 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_300

WISDOT/CADDS SHEET 44





PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	IH 43 SB	SHEET

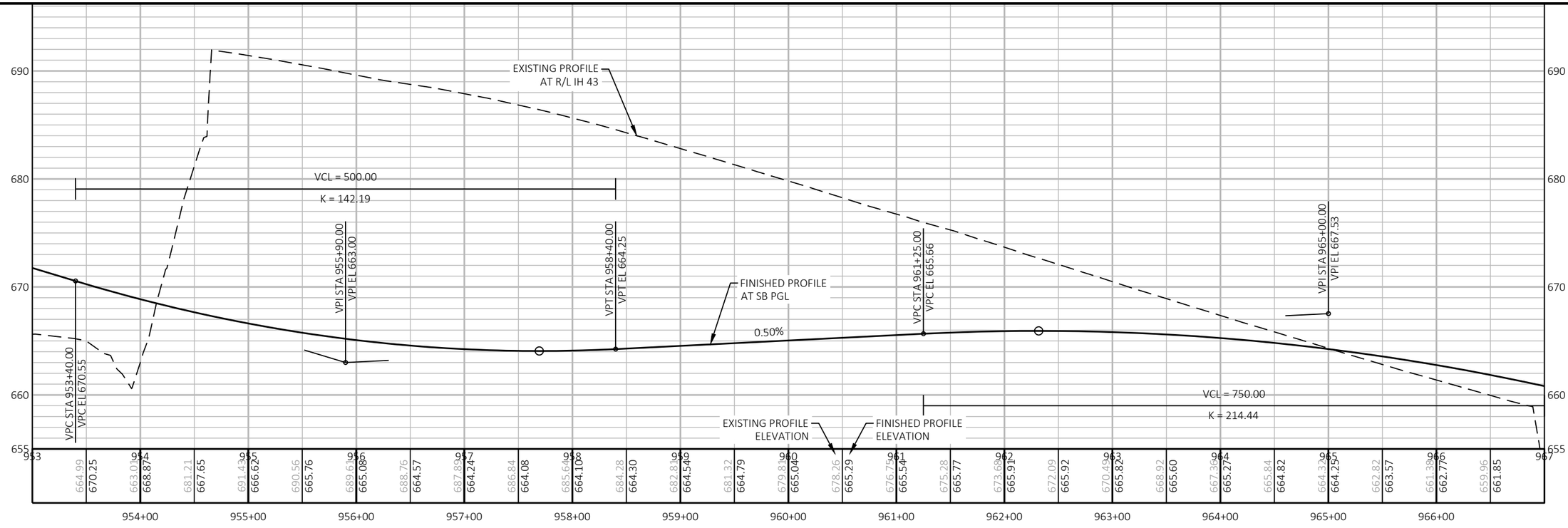
PRE_301

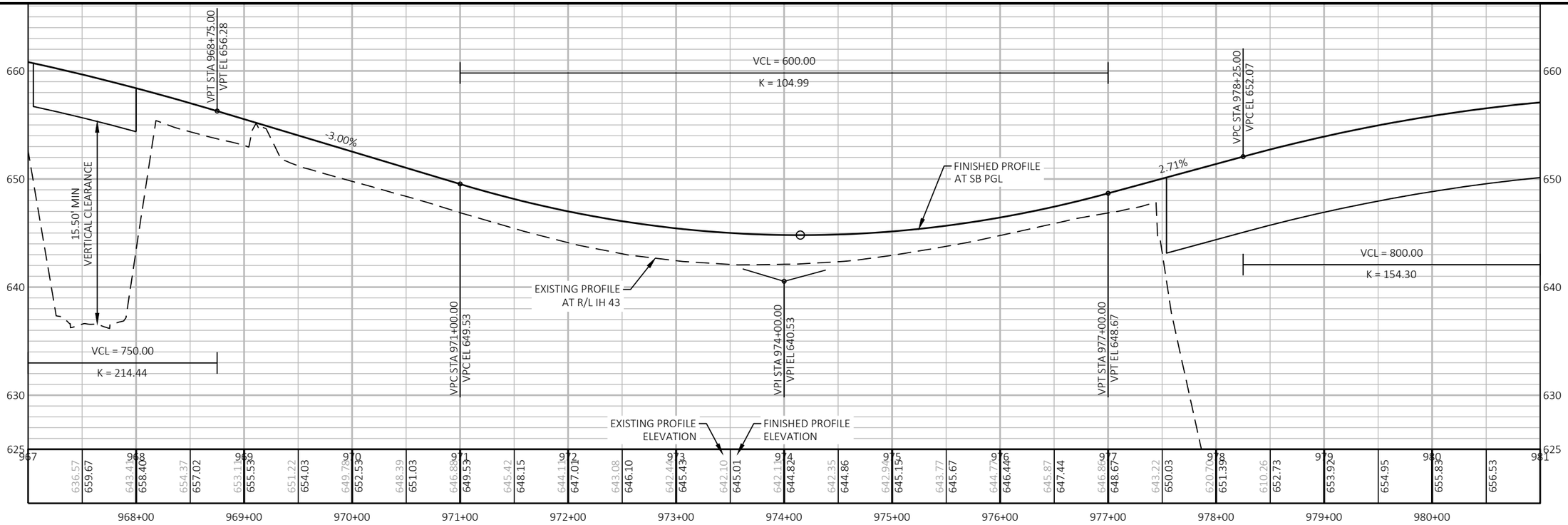
E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050102-PP_SB.DWG
LAYOUT NAME - 01

PLOT DATE : 1/28/2020 9:02 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



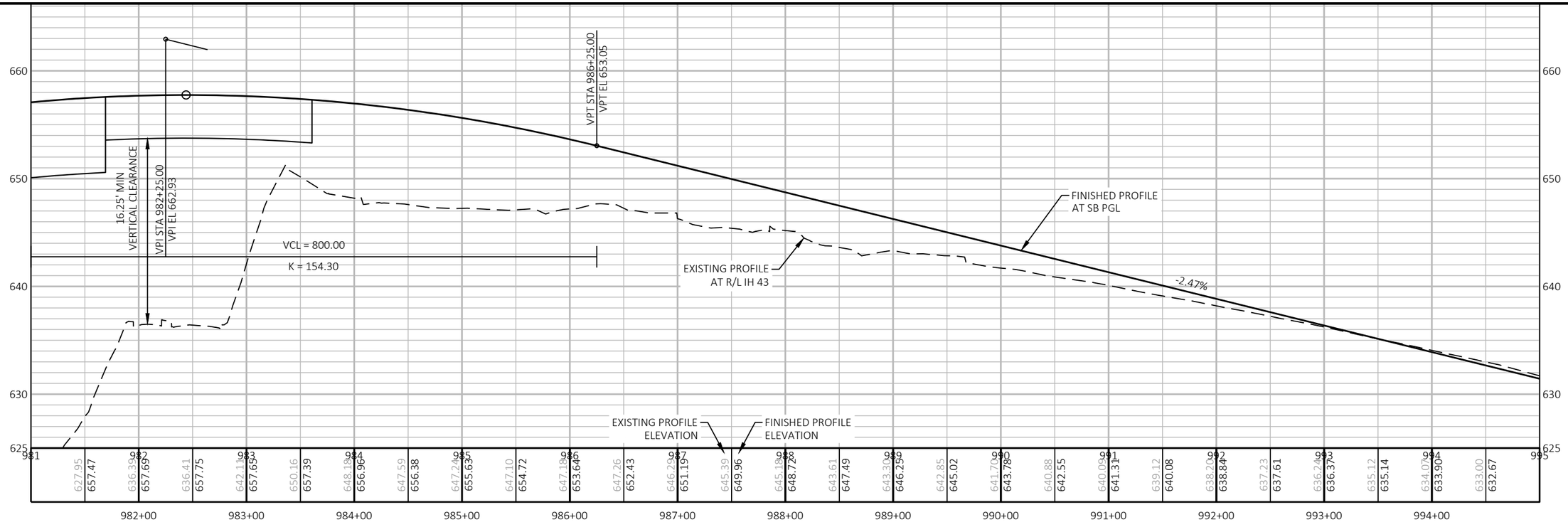


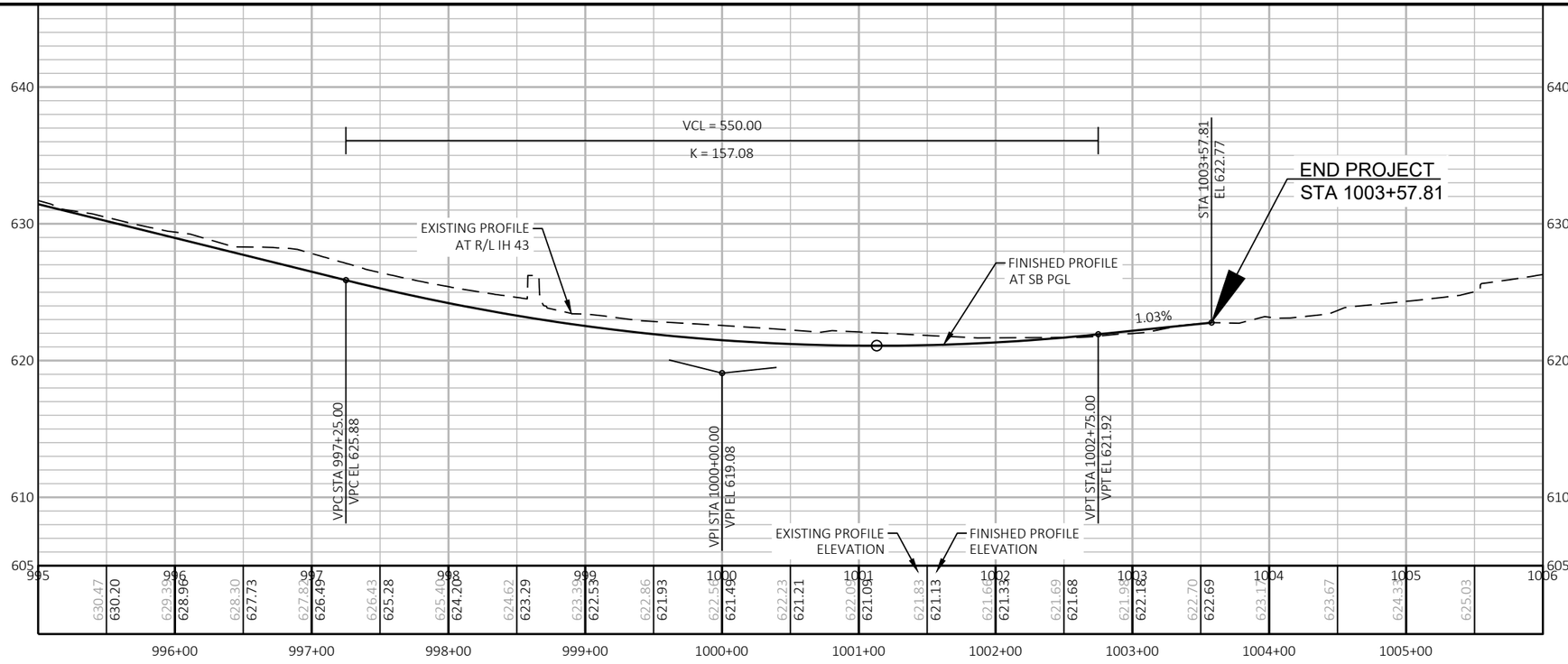
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	IH 43 SB	SHEET E

PRE_302

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050102-PP_SB.DWG
LAYOUT NAME - 02

PLOT DATE : 1/28/2020 9:02 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:100 FT



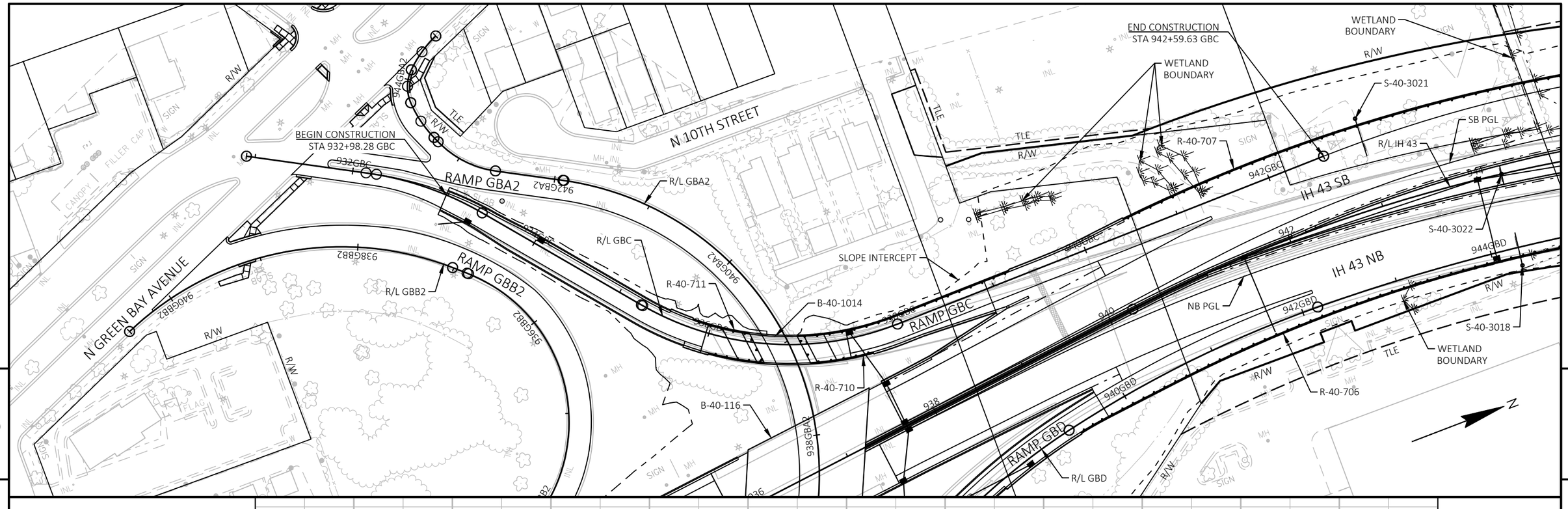


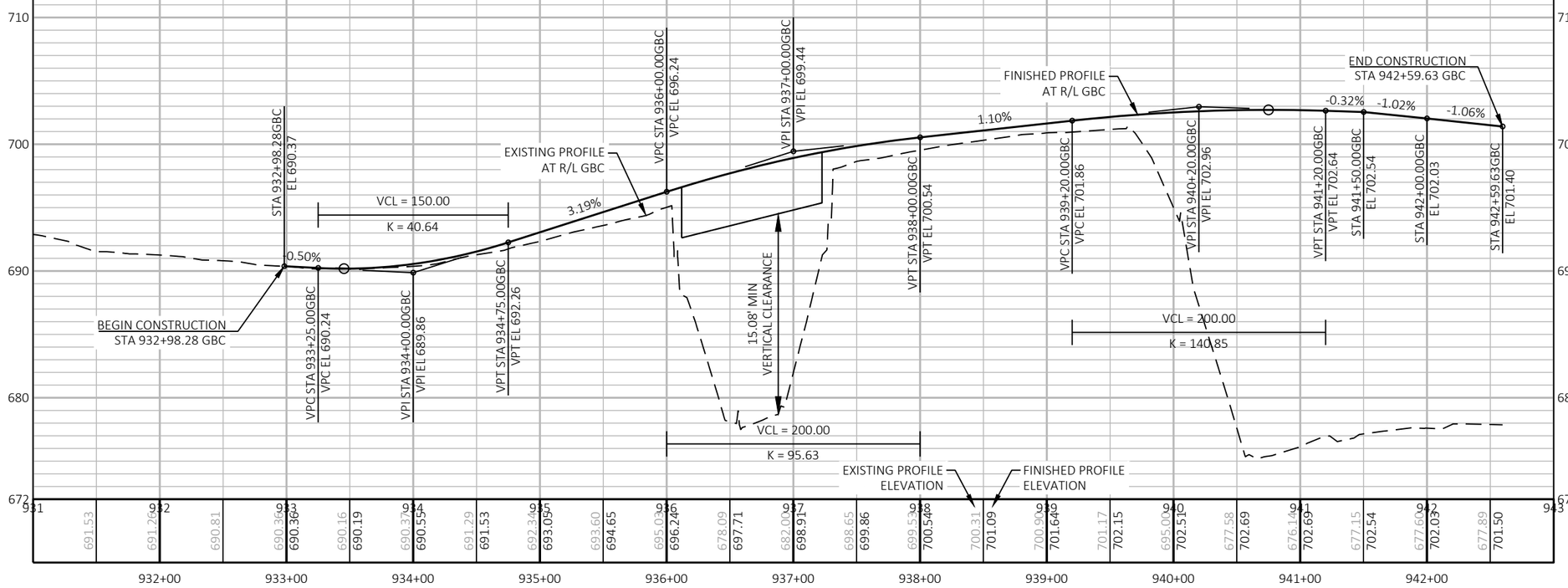
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050102-PP_SB.DWG
LAYOUT NAME - 03

PLOT DATE : 1/28/2020 9:02 AM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_303





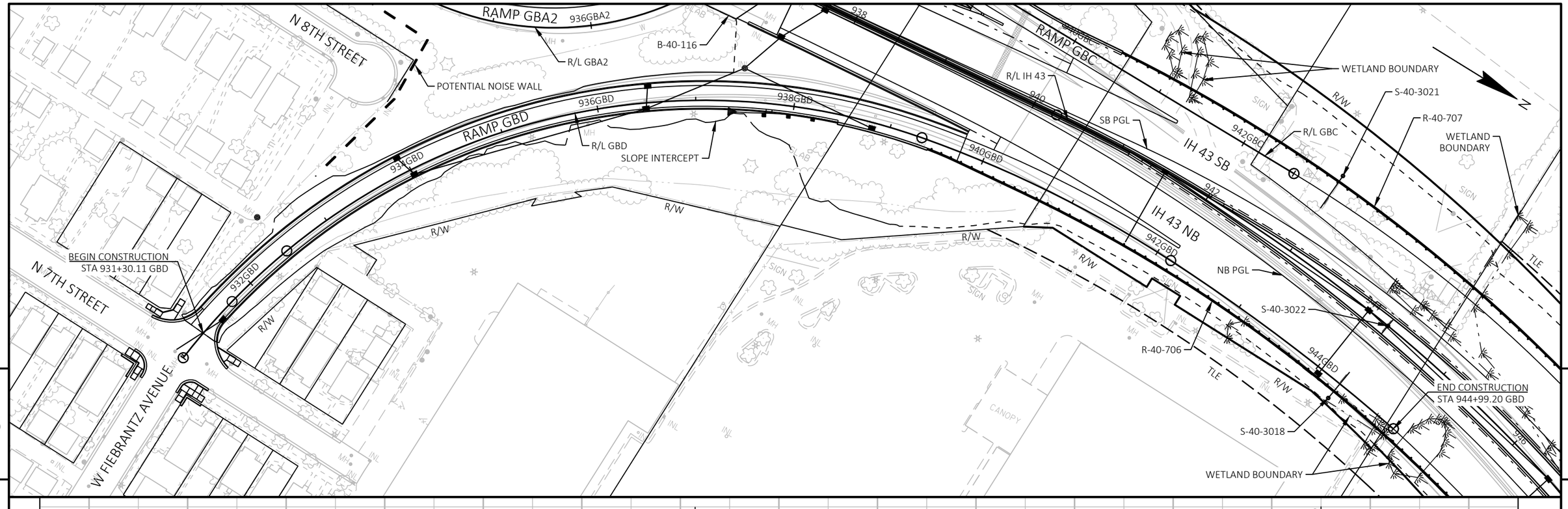
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: RAMP GBC	SHEET E

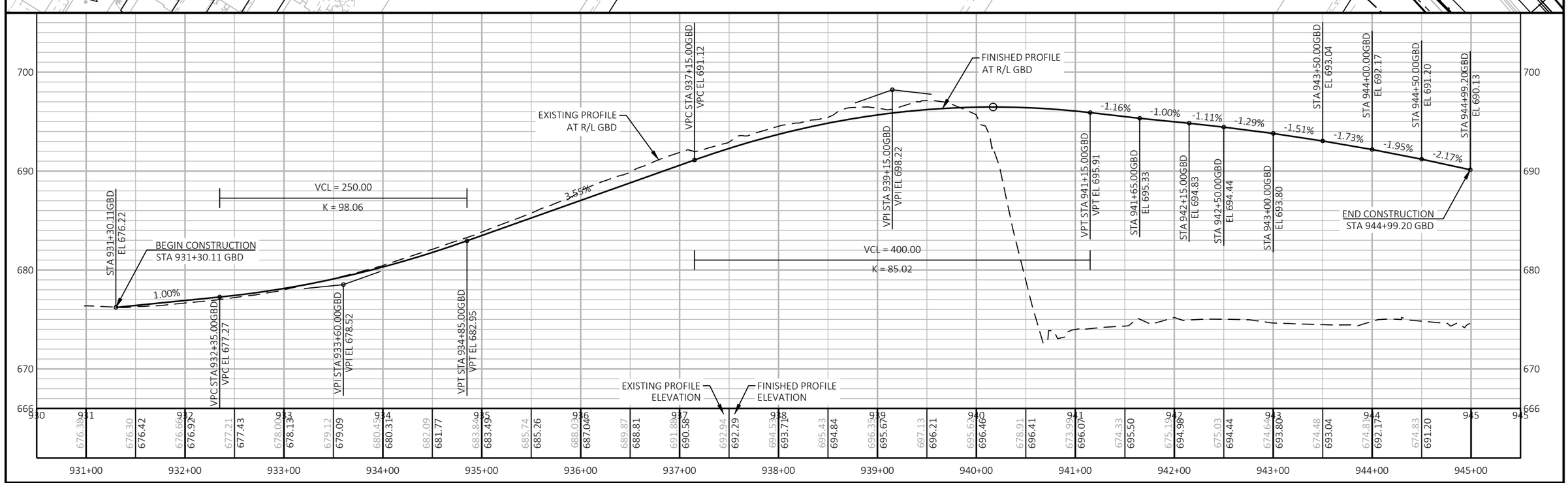
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050301-PP_GBC.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:12 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_304

WISDOT/CADDS SHEET 44





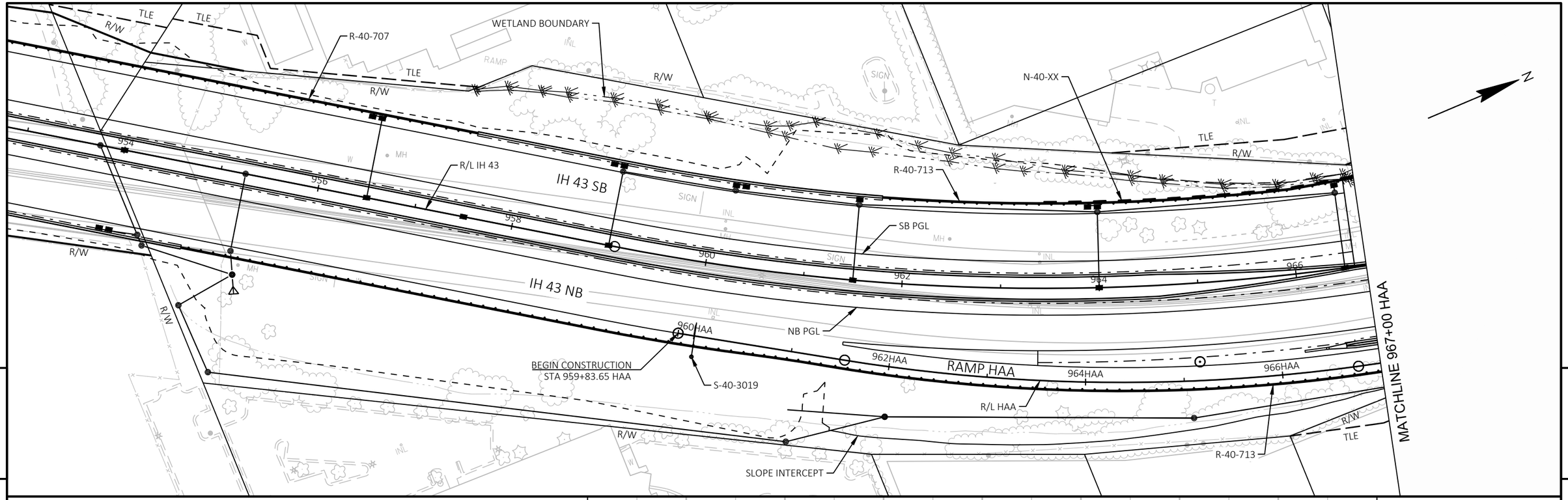
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: RAMP GBD	SHEET E

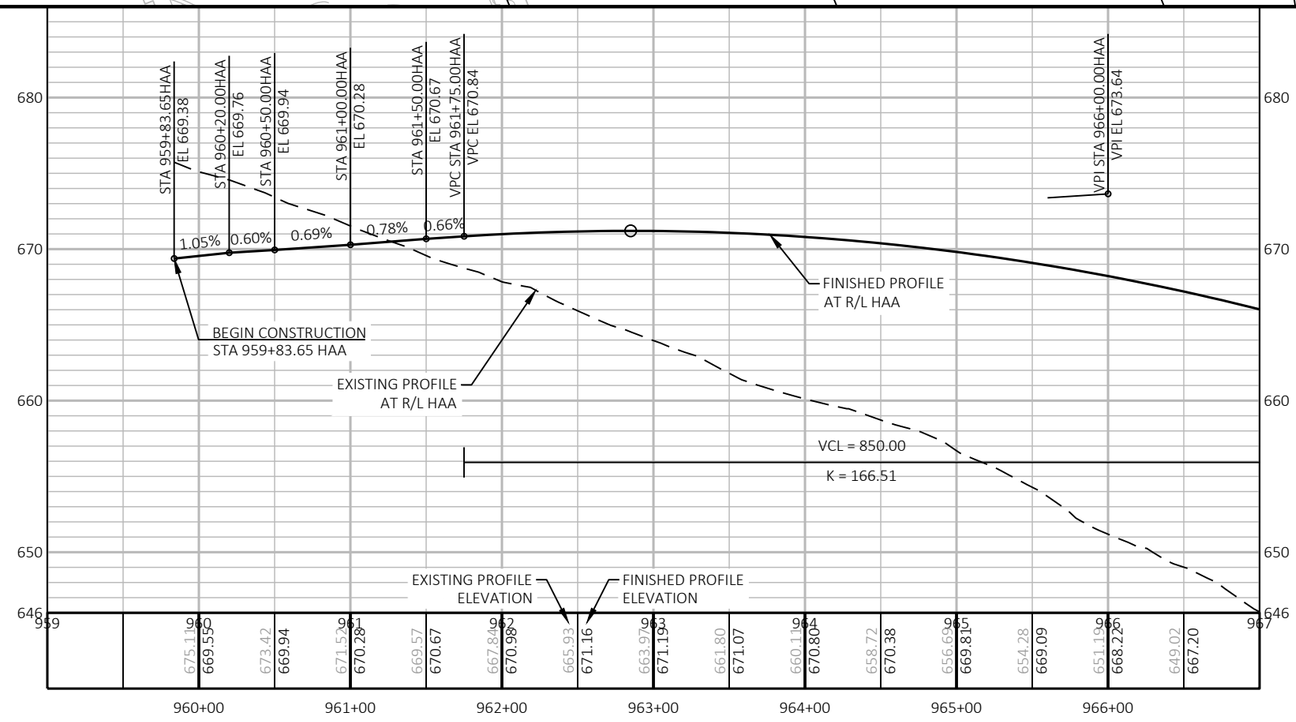
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050302-PP_GBD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:21 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

PRE_305

WISDOT/CADDS SHEET 44





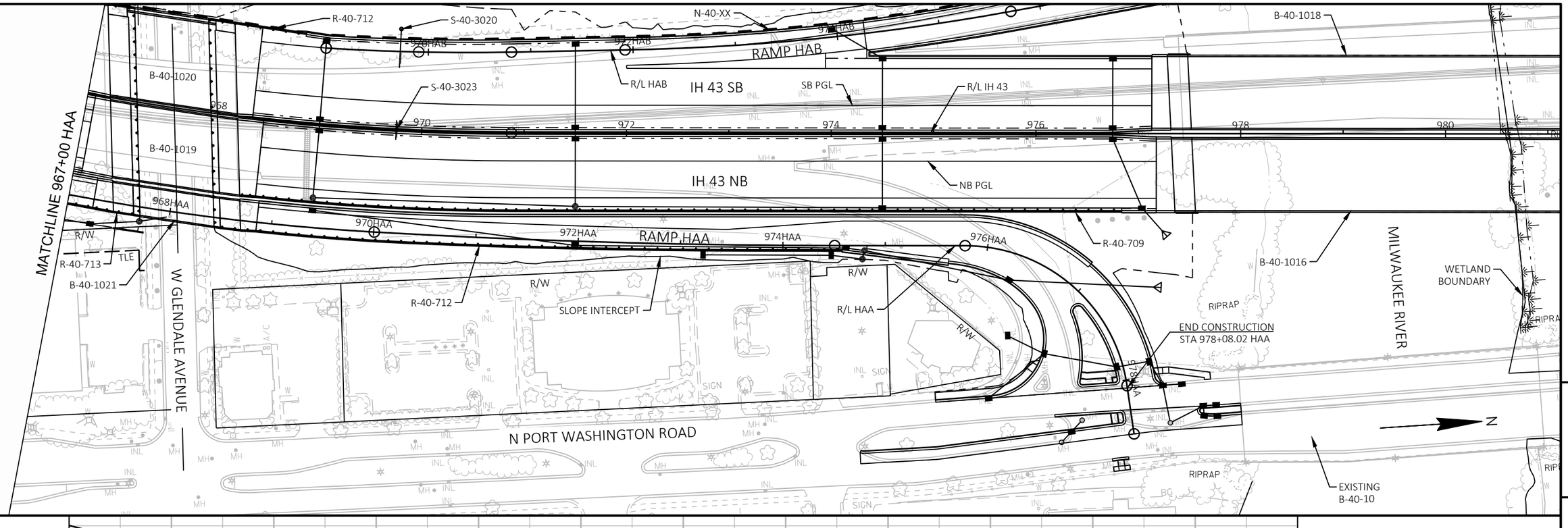
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: RAMP HAA	SHEET E

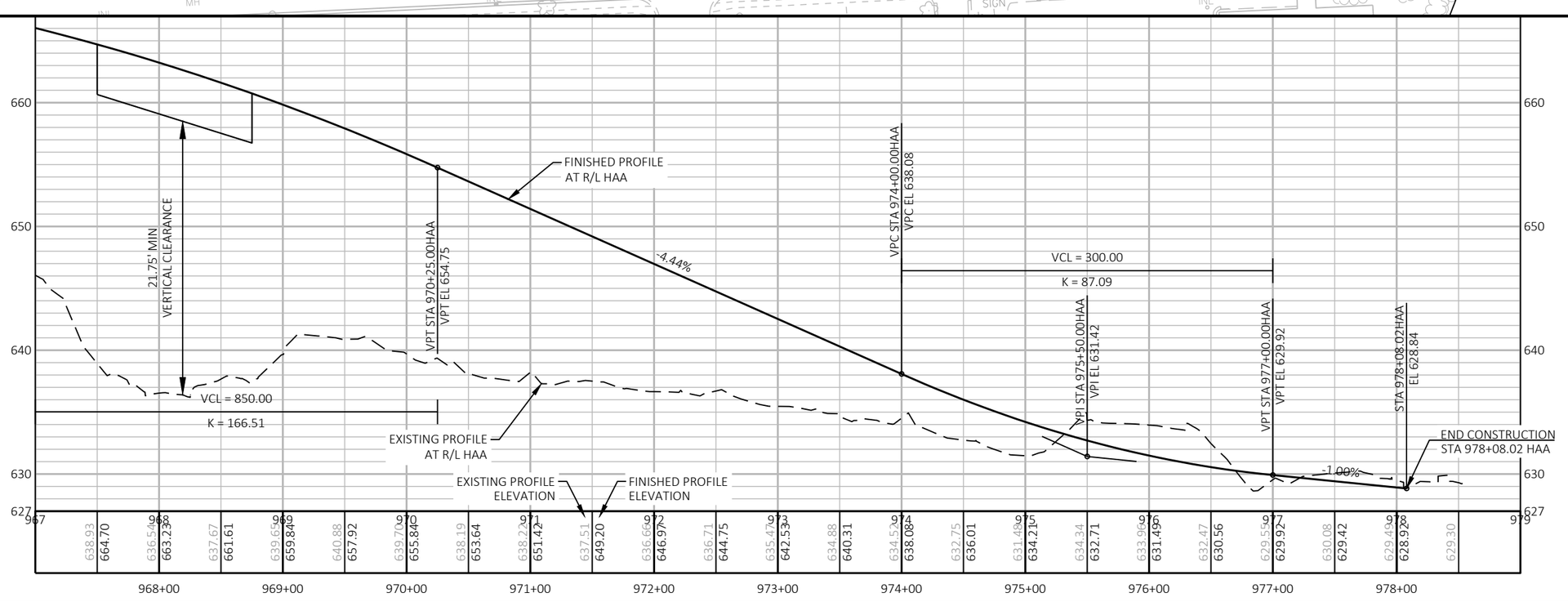
PRE_306

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050303-PP_HAA.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:30 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050303-PP_HAA.DWG
LAYOUT NAME - 02
PLOT DATE : 2/14/2020 12:31 PM
PLOT BY : FERGUSON, JULIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

N IRONWOOD LANE

W ROCK PLACE

MILWAUKEE RIVER

W HAMPTON AVENUE

OAK LEAF TRAIL

N

BEGIN CONSTRUCTION
STA 969+00.00 HAB

R-40-712

S-40-3020

SLOPE INTERCEPT

N-40-XX

S-40-3023

SB PGL

NB PGL

IH 43 SB

IH 43 NB

RAMP HAB

RAMP HAA

R/L IH 43

R/L HAB

R/L HAA

R/W

SLAB

BEGIN STRUCTURE B-40-67
STA 977+32.89 HAB

END STRUCTURE B-40-67
STA 981+05.04 HAB

B-40-67

R/L HA

12HA

14HA

WETLAND
BOUNDARY

END CONSTRUCTION
STA 981+91.69 HAB

B-40-1018

B-40-1016

R-40-709

970HAB

972HAB

974HAB

976HAB

978HAB

980HAB

982HAB

970HAA

972HAA

974HAA

976HAA

970

972

974

976

978

980

982

984

5

5

660

650

640

630

625

968

969+00

970+00

971+00

972+00

973+00

974+00

975+00

976+00

977+00

978+00

979+00

980+00

981+00

982+00

983

STA 969+00.00HAB
EL 653.03

STA 969+71.70HAB
EL 650.73

STA 970+00.00HAB
EL 650.05

STA 970+50.00HAB
EL 648.84

STA 971+00.00HAB
EL 647.57

STA 971+50.00HAB
EL 646.45

STA 969+50.00HAB
EL 651.43

-3.21%

-3.22%

-2.41%

-2.41%

-2.56%

-2.22%

-1.95%

BEGIN CONSTRUCTION
STA 969+00.00 HAB

VCL = 200.00

K = 131.53

VPC STA 971+90.00HAB
VPC EL 645.67

VPI STA 972+90.00HAB
VPI EL 643.72

VPT STA 973+90.00HAB
VPT EL 643.29

VPC STA 974+25.00HAB
VPC EL 643.14

VPI STA 975+00.00HAB
VPI EL 642.82

VPT STA 975+75.00HAB
VPT EL 642.07

VCL = 120.00

K = 248.45

-0.43%

-1.01%

-0.52%

VCL = 150.00

K = 260.58

VPC STA 975+90.00HAB
VPC EL 641.92

VPI STA 976+50.00HAB
VPI EL 641.31

VPT STA 977+10.00HAB
VPT EL 641.00

EXISTING PROFILE
AT R/L HAB

FINISHED PROFILE
AT R/L HAB

EXISTING PROFILE
ELEVATION

FINISHED PROFILE
ELEVATION

STA 981+05.05HAB
EL 638.93

STA 981+30.00HAB
EL 638.63

STA 981+65.00HAB
EL 637.93

STA 981+91.69HAB
EL 637.54

-1.20%

-2.00%

-1.49%

END CONSTRUCTION
STA 981+91.69 HAB

649.85 653.03 649.68 651.43 647.85 650.05 646.29 648.84 645.97 647.57 644.03 646.45 643.04 645.48 642.19 644.64 641.69 643.99 641.29 643.53 641.02 643.25 641.21 643.02 641.27 642.71 641.26 642.31 641.05 641.82 640.77 641.38 640.58 641.05 628.68 640.79 611.49 640.53 640.27 640.01 639.74 639.48 614.89 639.22 635.27 638.96 638.02 638.23 637.67

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN AND PROFILE: RAMP HAB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050304-PP_HAB.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:37 PM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

PRE_308

WISDOT/CADDS SHEET 44

5

5

N

GOLF GREEN

IH 43 SB

IH 43 NB

SB PGL

NB PGL

R/W

SLOPE INTERCEPT

N PORT WASHINGTON ROAD

N IROQUOIS AVENUE

END CONSTRUCTION
STA 17+05.04 HA

OAK LEAF TRAIL

W HAMPTON AVENUE

12HA

14HA

16HA

18HA

20HA

BEGIN CONSTRUCTION
STA 10+74.07 HA

R/L HA

982HAB

982

980HAB

980

978HAB

978

RAMP HAB

WETLAND
BOUNDARY

B-40-1018

B-40-1016

EXISTING B-40-10

B-40-67

R/L IH 43

R/L HAB

RIPRAP

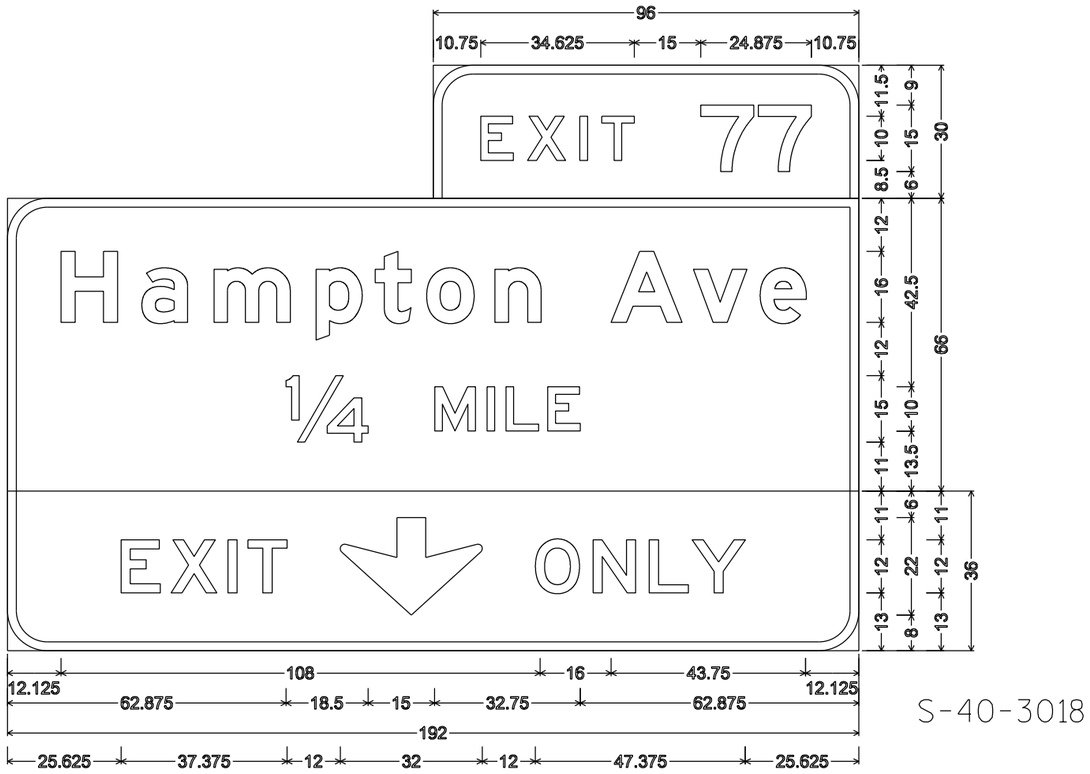
MILWAUKEE RIVER

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN: W. HAMPTON AVENUE	SHEET E

PRE_309

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\050305-PN_HA.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 12:41 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

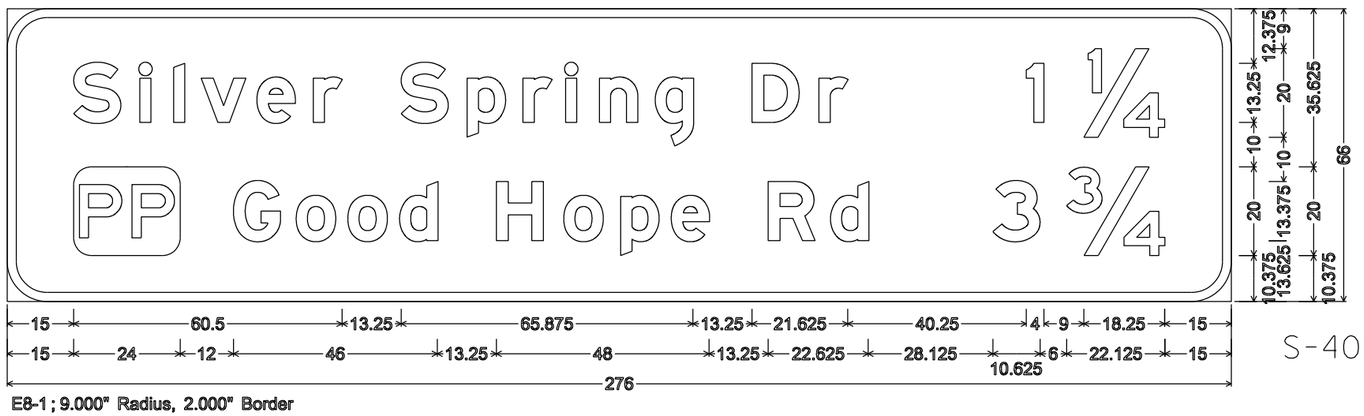


S-40-3018

E1-5P ; 9.000" Radius, 2.000" Border
E6-51 ; 9.000" Radius, 2.000" Border
E11-1 ; 9.000" Radius, 2.000" Border, Black on Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



S-40-3022

E8-1 ; 9.000" Radius, 2.000" Border

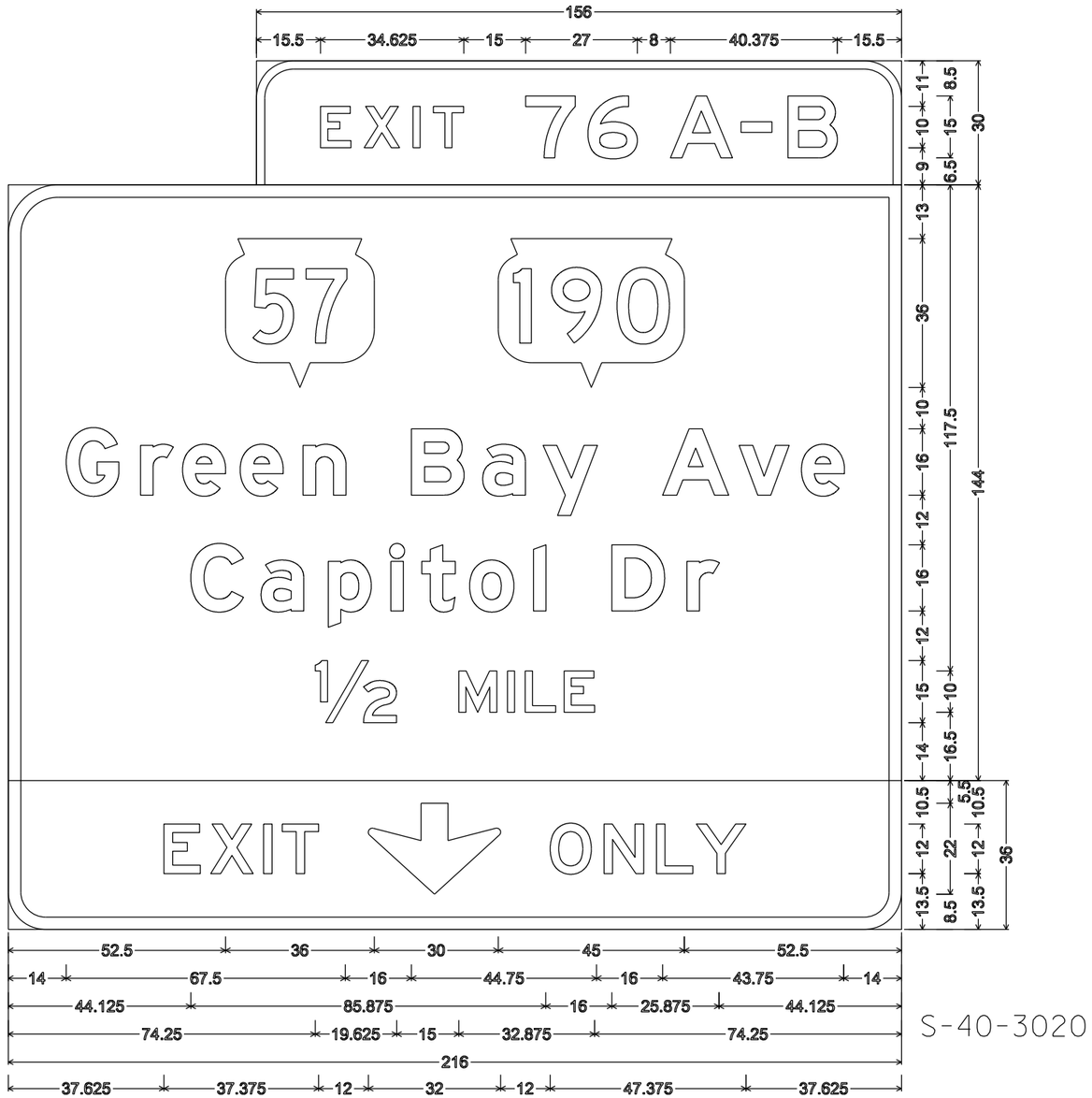
7

7

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO PRE_310	E

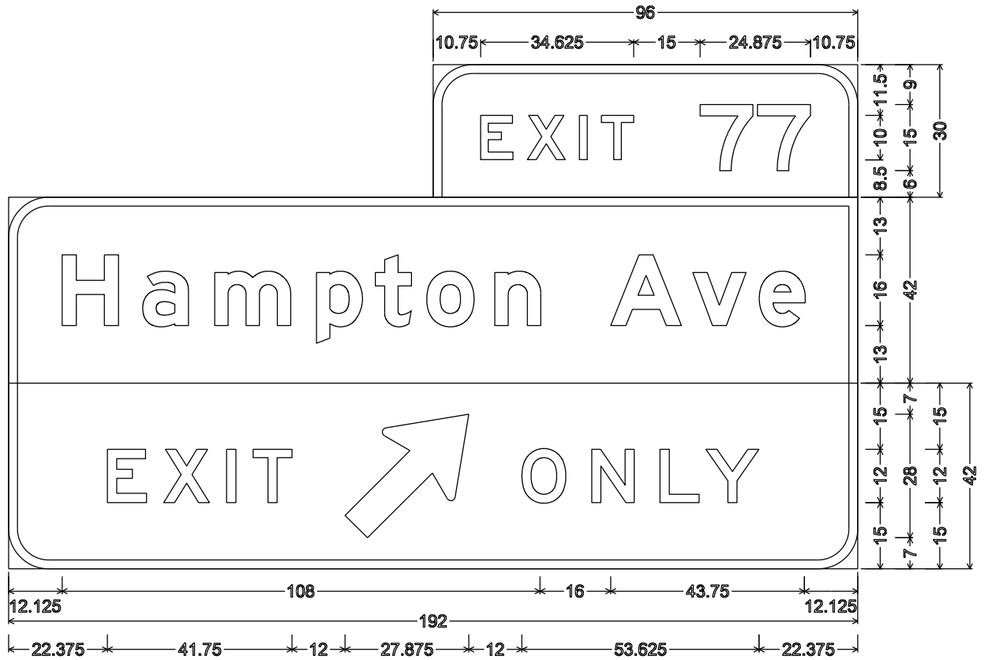
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting
   with Black Non-Reflective Message



S-40-3020

E1-5P ; 9.000" Radius, 2.000" Border
E6-51 ; 12.000" Radius, 3.000" Border
E11-1 ; 9.000" Radius, 3.000" Border, Black on Yellow



S-40-3019

E1-5P ; 9.000" Radius, 2.000" Border
E6-1 ; 9.000" Radius, 2.000" Border
E11-1D ; 9.000" Radius, 2.000" Border, Black on Yellow

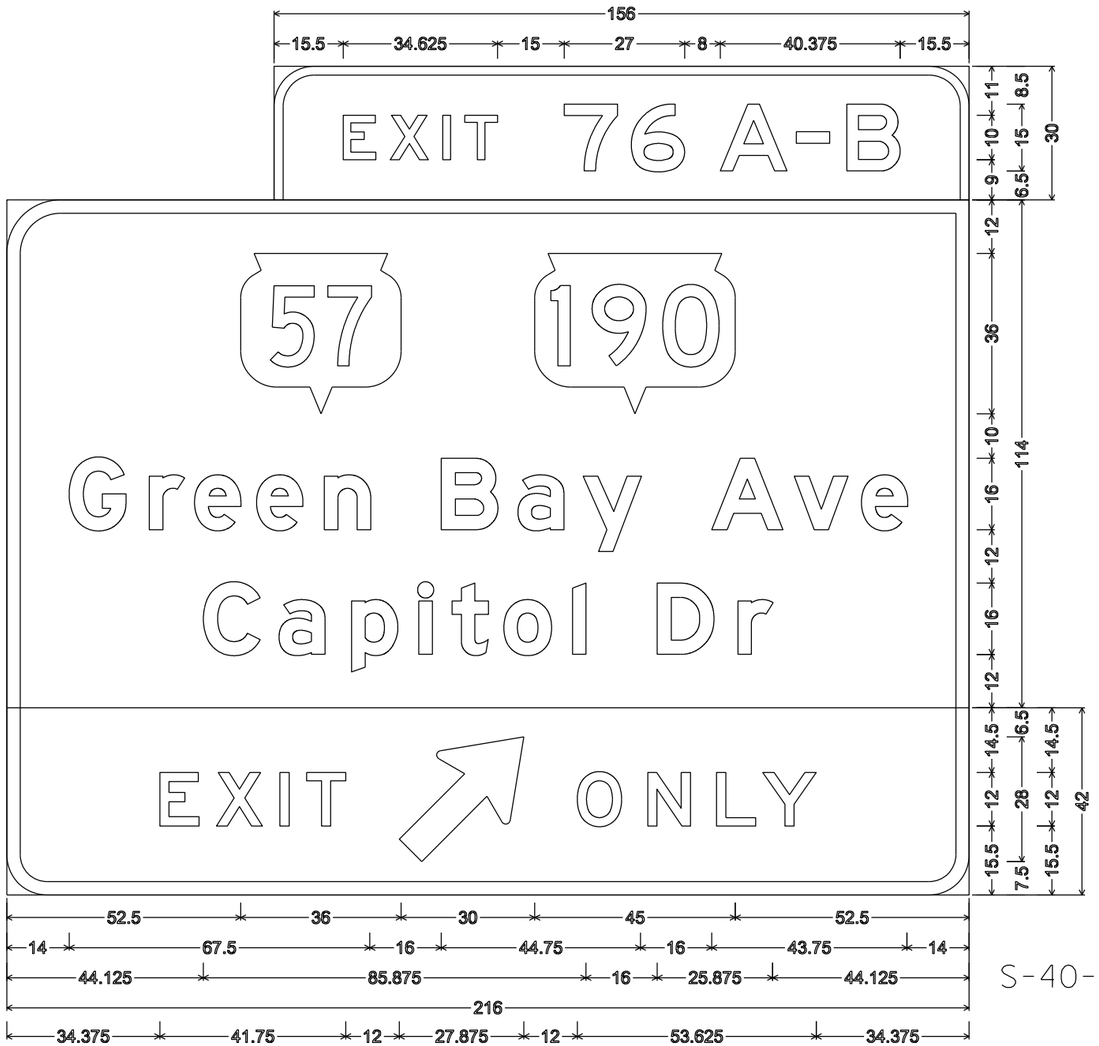
7

7

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO	E

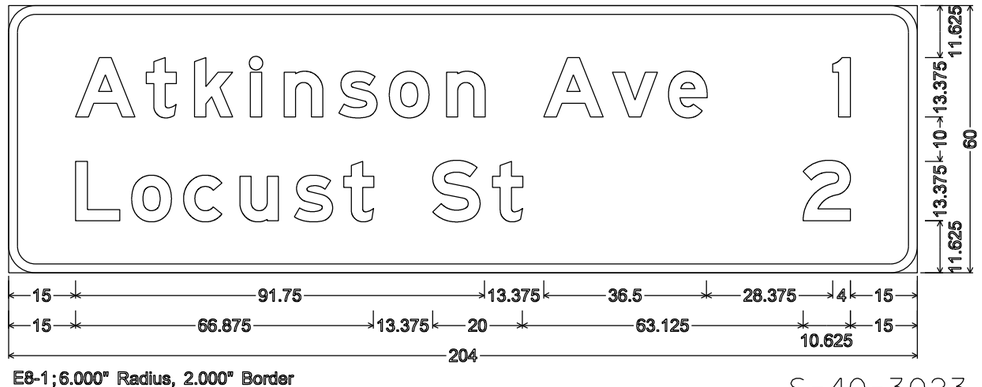
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



S-40-3021

E1-5P ; 9.000" Radius, 2.000" Border
E6-1 ; 12.000" Radius, 3.000" Border
E11-1D ; 9.000" Radius, 3.000" Border, Black on Yellow



E8-1 ; 6.000" Radius, 2.000" Border

S-40-3023

7

7

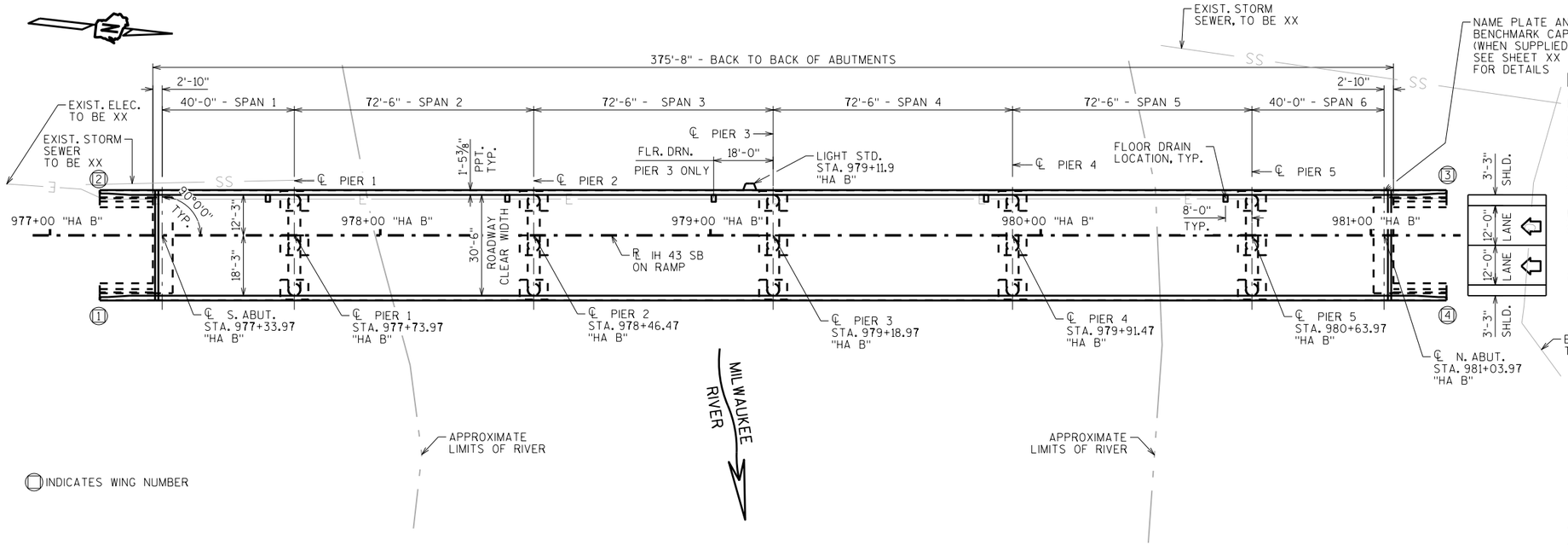
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET N PRE_312	E

FILE NAME : C:\CAEfiles\Projects\tr_d2\2404go19.dgn PLOT DATE : 19-FEB-2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

1228-22-71



PLAN

6 - SPAN 45" CONCRETE GIRDER

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
DECK & PARAPETS ——— f'c = 4,000 P.S.I.
ALL OTHER ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 ——— fy = 60,000 P.S.I.

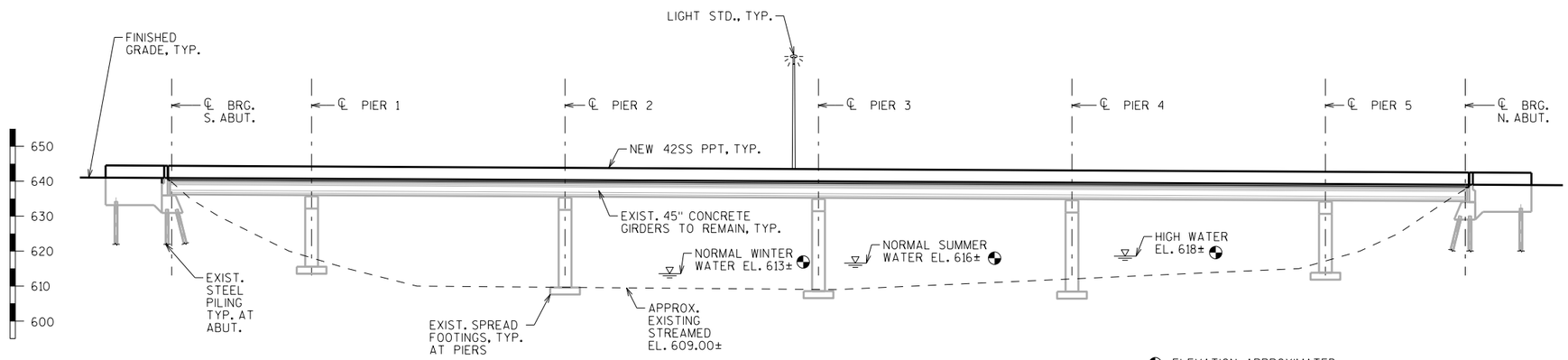
TRAFFIC VOLUME

IH 43 SB ON RAMP
ADT = 7,000 (2014)
R.D.S. = 50 M.P.H.

LIST OF DRAWINGS

1. NEW DECK
2. CROSS SECTION & QUANTITIES
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.

PRELIMINARY PLAN



ELEVATION

LOOKING WEST

STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK (608) 261-6108
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-67

IH 43 SB ON RAMP OVER MILWAUKEE RIVER

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MJK	SEW	MJK	SEW

NEW DECK

SHEET 1 OF XX

PRE_313

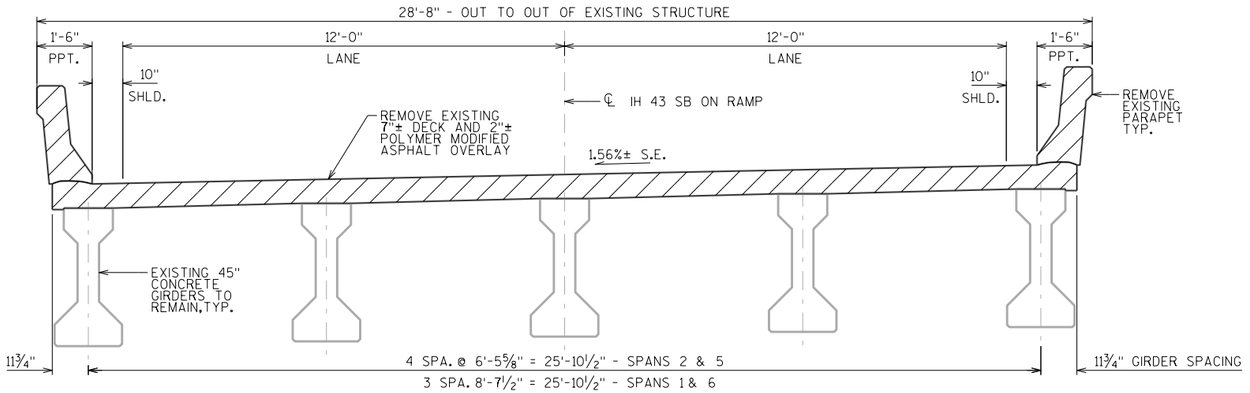
I.D. 1228-22-01AB DATE: AUG. 2019

SCALE = 1900

PRELIMINARY

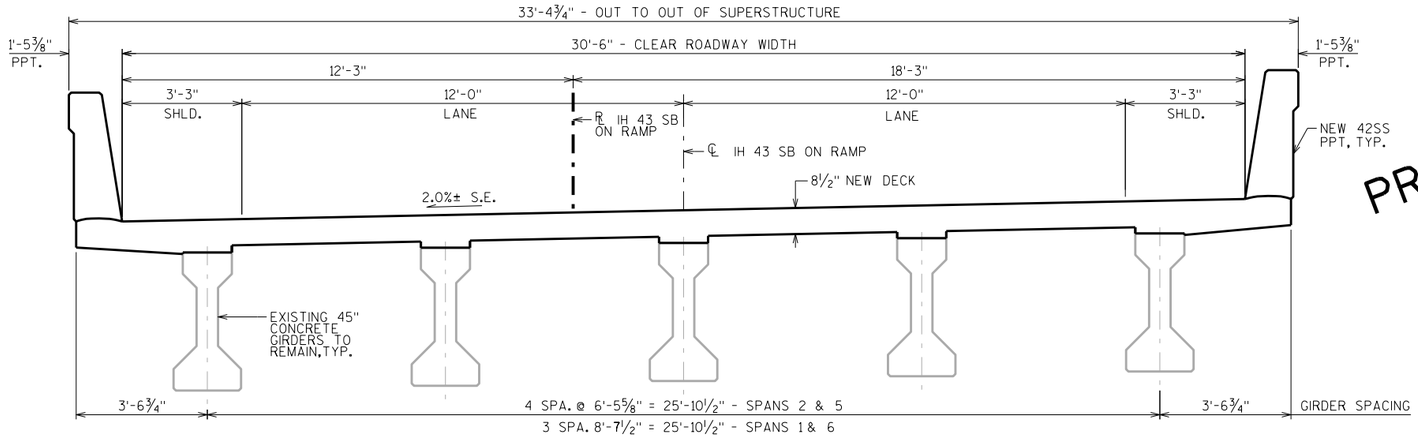
8

8



EXISTING CROSS SECTION THRU ROADWAY

LOOKING NORTH



PROPOSED SECTION THRU ROADWAY

LOOKING NORTH

PRELIMINARY PLAN

EXISTING STRUCTURE REMOVAL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-67" SHALL BE THE EXISTING GROUNDLINE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE " PRESTRESSED GIRDER DETAILS 2" SHEET.

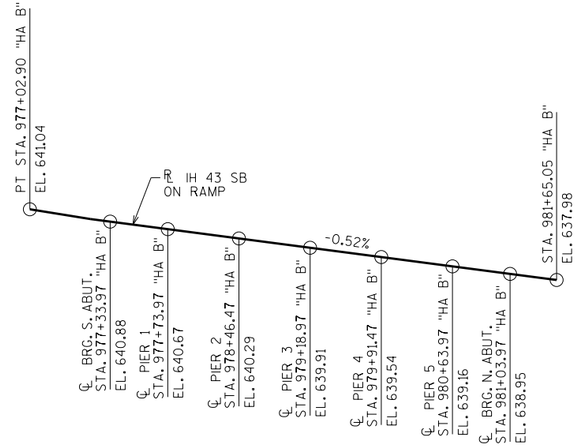
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR 1962.

ANY EXCAVATION NECESSARY TO COMPLETE THE CONSTRUCTION OF THE NEW DECK IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-40-67".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	NORTH ABUT.	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 979+18.97 "HA B"	LS	——	——	——	——	——	——	——	——	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-67	LS	——	——	——	——	——	——	——	——	1
502.0100	CONCRETE MASONRY BRIDGES	CY									
502.3101	EXPANSION DEVICE B-40-67	LF									
502.3200	PROTECTIVE SURFACE TREATMENT	SY									
502.3210	PIGMENTED SURFACE SEALER	SY									
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH									
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH									
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB									
506.4000	STEEL DIAPHRAGMS B-40-67	EACH									
509.1500	CONCRETE SURFACE REPAIR	SF									
514.0445	FLOOR DRAINS TYPE GC	EACH									
514.2625	DOWNSPOUT 6-INCH	LF									
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY									
	NON-BID ITEMS										
	FILLER	SIZE									½", ¾"



PROFILE GRADE LINE - ℄ IH 43 SB ON RAMP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-67

DRAWN BY MJK | PLANS CK'D. SEW

CROSS SECTION & QUANTITIES

SHEET 2

PRE_314

STATE PROJECT NUMBER

1228-22-71

PRELIMINARY

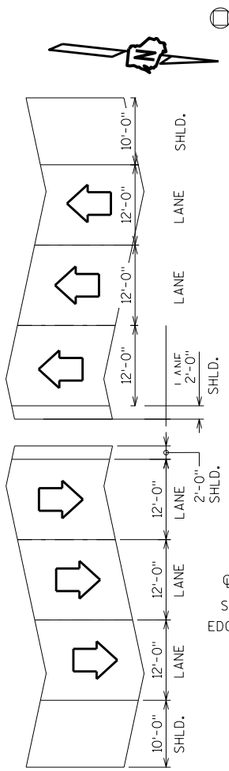
SCALE = 2.00

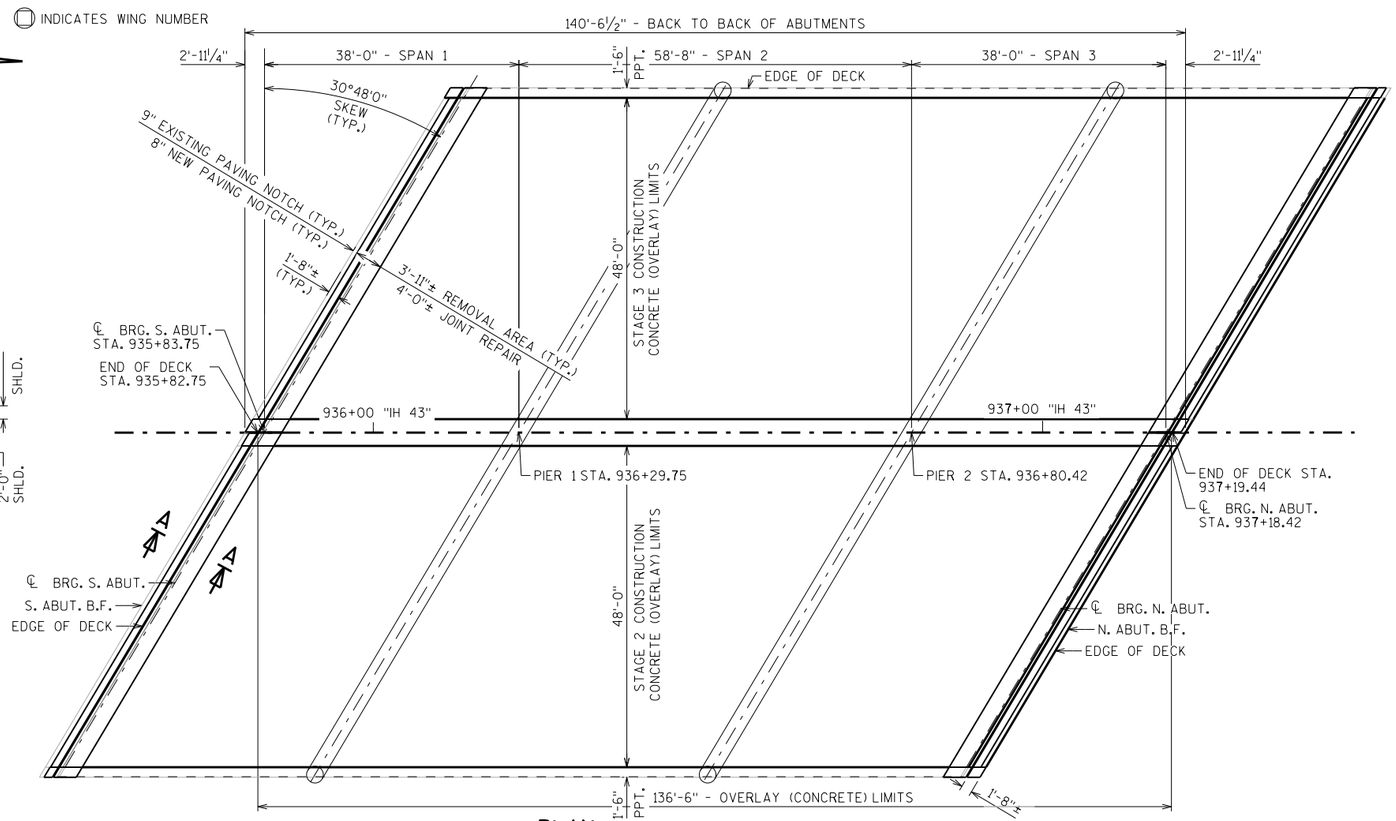
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8

STATE PROJECT NUMBER

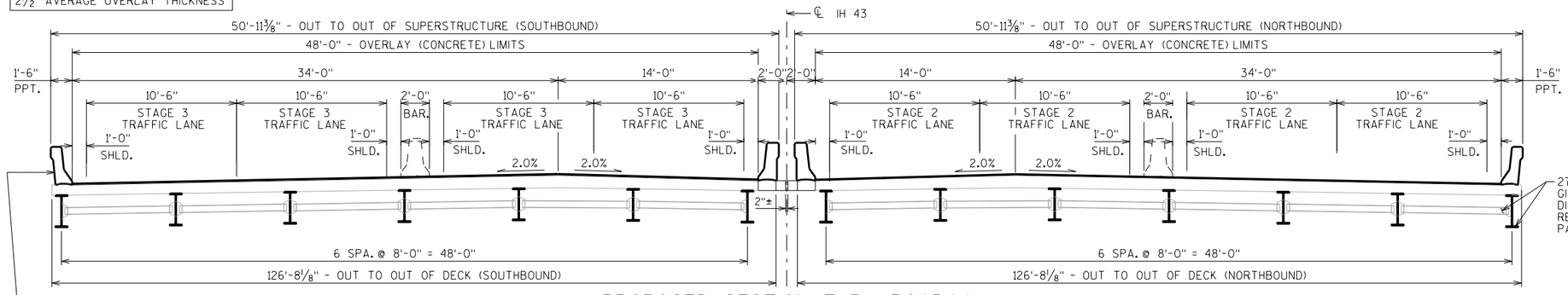
1228-22-71





PLAN

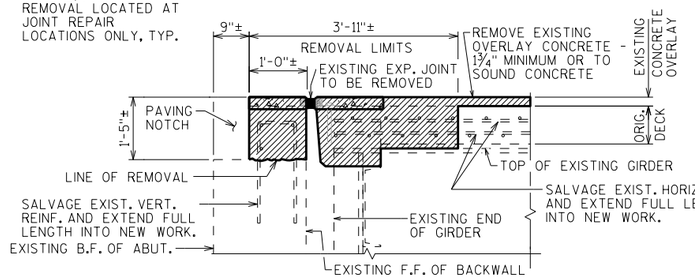
2½" AVERAGE OVERLAY THICKNESS



PROPOSED SECTION THRU ROADWAY

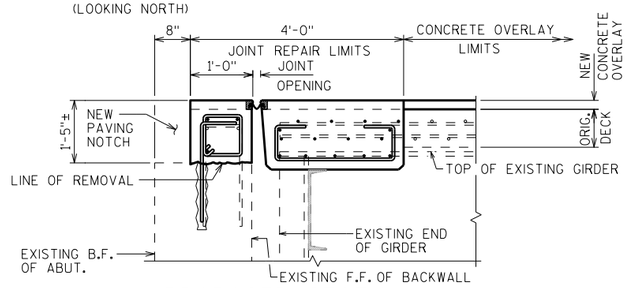
(LOOKING NORTH)

SLOPED PARAPET TYPE B, PARAPET REMOVAL LOCATED AT JOINT REPAIR LOCATIONS ONLY, TYP.



EXISTING SECTION A-A

SHOWING REMOVAL TYP. (BOTH ABUTMENTS)



PROPOSED SECTION A-A

TYP. (BOTH ABUTMENTS)

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-15
OPERATING RATING: HS-25
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 165 (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.

HIGH STRENGTH STRUCTURAL STEEL:
ASTM A709, GRADE 50 — fy = 50,000 P.S.I.

CURVE DATA

(CURVE INFO FROM AS-BUILT)

IH 43 NB OFF RAMP TO GREEN BAY AVE

P.I. =
△ = 164°00'00"
D = 19°00'00"
T = 2145.72
L = 863.13'
R = 301.56
S.E. = 0.06'/FT
P.C. = 5+81.63
P.T. = 14+44.79

TRAFFIC VOLUME

IH 43

ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

IH 43 NB OFF RAMP TO GREEN BAY AVE

ADT = 6,000 (2015)
R.D.S. = 25 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES & NOTES
3. NORTHBOUND ABUTMENT DETAILS
4. NORTHBOUND PARAPET DETAILS
5. SOUTHBOUND ABUTMENT DETAILS
6. SOUTHBOUND PARAPET DETAILS
7. EXPANSION DEVICE
8. COVER PLATE DETAILS
9. REPLACEMENT EXPANSTION BEARING DETAILS
10. REPLACEMENT FIXED BEARING DETAILS
11. GIRDER END REPAIR

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-116

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC. N/A REHABILITATION

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS		JJS	

GENERAL PLAN

SHEET 1 OF 11

PRE_315

DRAFT

I.D. 1228-22-01A DATE: SEPT. 2019

SCALE = 11.00

8

8

STATE PROJECT NUMBER

1228-22-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	LS	———	———	———	———	———	1
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC -INCH	LS	1	———	———	———	———	1
502.3100	EXPANSION DEVICE B-40-116	LF	224	———	———	———	———	224
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,485	———	———	———	———	1,485
502.3210	PIGMENTED SURFACE SEALER	SY	210	———	———	———	———	210
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	240	———	———	———	———	240
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	8,000	———	———	———	———	8,000
506.0105	STRUCTURAL STEEL CARBON	LB	55	———	———	———	———	55
506.5000	BEARING ASSEMBLIES FIXED B-40-116	EACH	———	———	14	———	———	14
506.6000	BEARING ASSEMBLIES EXPANSION B-40-116	EACH	———	14	———	14	14	42
506.7050.S	REMOVING BEARINGS B-40-116	EACH	———	14	14	14	14	56
509.0301	PREPARATION DECKS TYPE 1	SY	40	———	———	———	———	40
509.0302	PREPARATION DECKS TYPE 2	SY	25	———	———	———	———	25
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	1382	———	———	———	———	1382
509.1000	JOINT REPAIR	SY	111	———	———	———	———	111
509.1500	CONCRETE SURFACE REPAIR	SF	65	20	———	———	20	105
509.2000	FULL-DEPTH DECK REPAIR	SY	15	———	———	———	———	15
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	4	———	———	———	———	4
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	77	———	———	———	———	77
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-116	SY	1382	———	———	———	———	1382
509.9050.S	CLEANING PARAPETS	LF	518	———	———	———	———	518
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-116	LS	1	———	———	———	———	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIAL	LS	1	———	———	———	———	1
517.6001.S	PORTABLE DECONTAMINTATION FACILITY	LS	1	———	———	———	———	1
SPV.0060	EMBEDDED GALVANIC ANODES	EACH						
	NON-BID ITEMS							
	BRIDGE SEAT PROTECTION	L.S.	———	———	———	———	———	1

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND JOINT REPAIR SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF ALL ABUTMENTS AND PIERS BELOW EXPANSION DEVICES.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

REPAINT ALL EXISTING EXPOSED SUPERSTRUCTURE STEEL - INCLUDING GIRDERS, DIAPHRAGMS, AND HARDWARE. THE COLOR OF THE FINISH EPOXY TOP COAT SHALL BE BLUE, (FEDERAL STANDARD COLOR NO. 25240) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

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

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

ALL FIELD CONNECTIONS SHALL BE MADE WITH ¾" DIAMETER A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED.

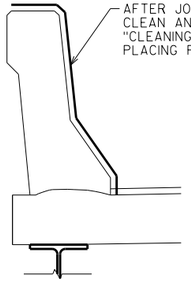
ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIR AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF ½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY IS 2" (OR AS GIVEN ON THE PLANS). IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

THE EXISTING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY WHEN REMOVING EXISTING OVERLAY".

REMOVE ANY/ALL LOOSE CONCRETE AT ABUTMENTS AND PARAPETS UNDER THE BID ITEM "CONCRETE SURFACE REPAIR". SURFACES SHALL BE BLAST CLEANED AND ANY EXPOSED STEEL REINFORCEMENT SHALL BE BRUSHED CLEAN PRIOR TO THE CONCRETE SURFACE REPAIRS BEING COMPLETED. REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.



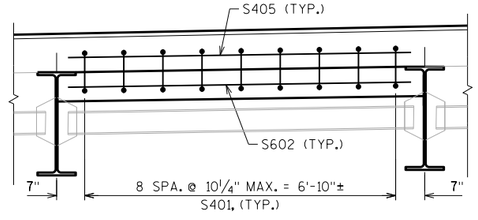
PARAPET CLEANING DETAIL

SURFACE REPAIR NOTES

SURFACE REPAIR DETAILS DEPICT THE GENERAL TYPES AND LOCATIONS OF REPAIRS, AND MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

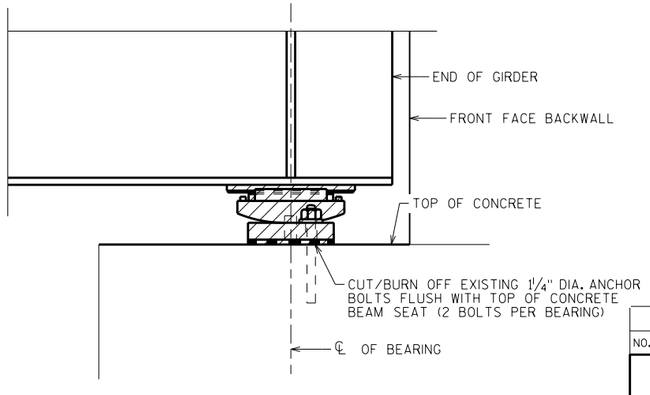
ALL SURFACE REPAIR AREAS SHALL BE DEFINED BY ½" MIN. SAWCUT.

CONTRACTOR SHALL EMPLOY METHODS TO PREVENT REMOVED CONCRETE MATERIAL FROM ENTERING THE RAMP TRAVEL LANE.



DIAPHRAGM AT JOINT REPAIR

(TYP.) BETWEEN GIRDERS FOR BOTH DIRECTIONS OF TRAFFIC



BEARING REMOVAL DETAIL

NOTE: REMOVAL AND DISPOSAL OF EXISTING BEARINGS AND SHIMS AS SHOWN, INCLUDING JACKING OF THE BRIDGE AS REQUIRED TO REMOVE AND REPLACE THE BEARINGS, SHALL BE INCLUDED IN BID ITEM "REMOVING BEARINGS B-40-116".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

QUANTITIES & NOTES

SHEET 2

PRE_316

DRAFT

SCALE = 6.00

8

8

STATE PROJECT NUMBER

1228-22-71

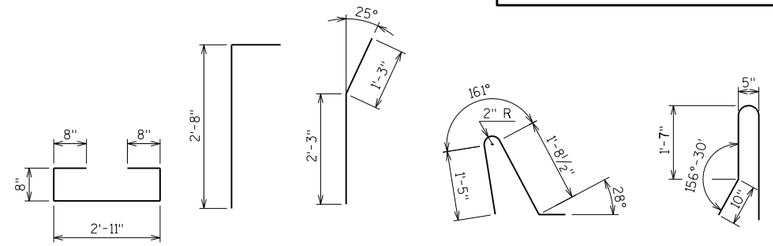
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

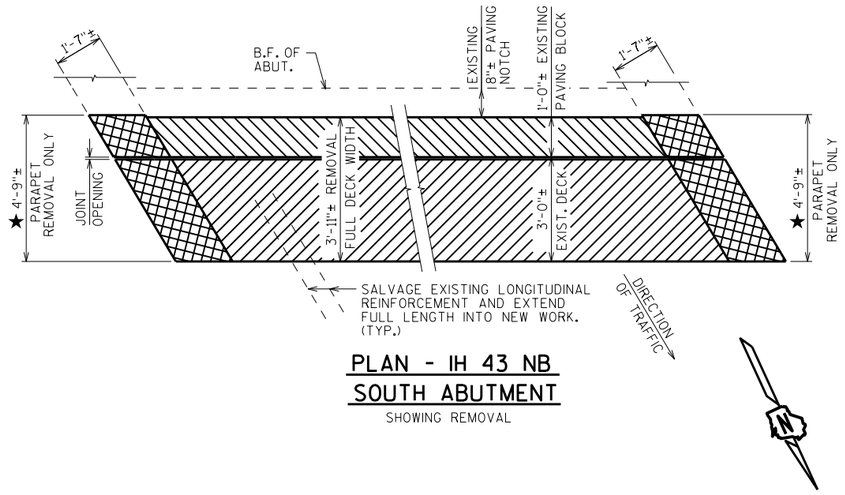
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	108	5'-3"	X		ABUT. DIAPH. - VERT.
S602	X	60	8'-8"			ABUT. DIAPH. - HORIZ.
S503	X	36	31'-0"			JOINT REPAIR - HORIZ.
(A23) S504	X	112	3'-4"	X		BACKWALL/PAV. BLOCK - CONC. ADHESIVE ANCHORS - VERT.
S405	X	24	8'-8"			JOINT REPAIR - HORIZ.
(A23) S506	X	4	3'-6"			WEST/EAST PARAPET - CONC. ADHESIVE ANCHORS - VERT.
(A23) S507	X	4	3'-6"	X		WEST/EAST PARAPET - CONC. ADHESIVE ANCHORS - VERT.
S508	X	18	4'-3"	X		EAST PARAPET - VERT.
S509	X	20	4'-4"	X		EAST PARAPET - VERT.
S510	X	10	11"			WEST & EAST PARAPET - HORIZ.
S511	X	20	3'-2"			WEST & EAST PARAPET - HORIZ.
S512	X	10	1'-7"			WEST & EAST PARAPET - HORIZ.
S413	X	24	8'-8"			EXPANSION DEVICE - HORIZ. - BETWEEN GIRDERS

(A23) ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-6" INTO EXISTING CONCRETE.

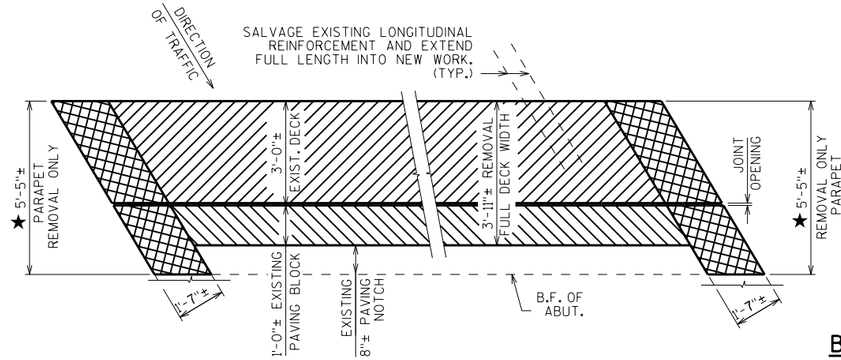
★ DIMENSION MEASURED ALONG THE FACE OF THE PARAPET



S401 S504 S507 S508 S509



PLAN - IH 43 NB
SOUTH ABUTMENT
SHOWING REMOVAL

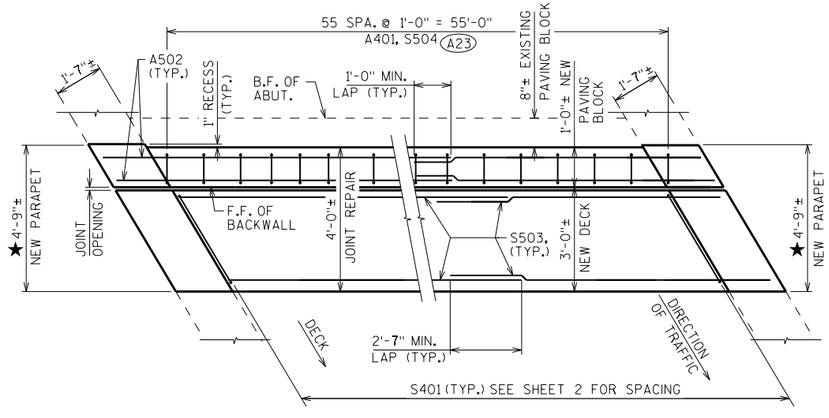


PLAN - IH 43 NB
NORTH ABUTMENT
SHOWING REMOVAL

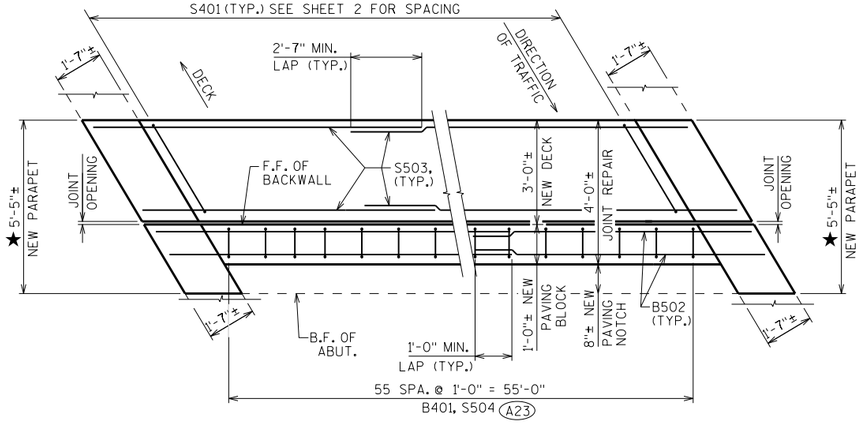
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

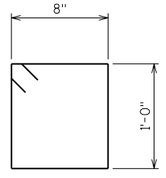
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401	X	56	4'-0"	X		PAVING BLOCK - VERT. - S. ABUT.
A502	X	6	31'-0"			PAVING BLOCK - HORIZ. - S. ABUT.
B401	X	56	4'-0"	X		PAVING BLOCK - VERT. - N. ABUT.
B502	X	6	31'-0"			PAVING BLOCK - HORIZ. - N. ABUT.



PLAN - IH 43 NB
SOUTH ABUTMENT
PARAPET BARS NOT SHOWN



PLAN - IH 43 NB
NORTH ABUTMENT
PARAPET BARS NOT SHOWN



A401, B401

NOTE:
SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

NORTHBOUND ABUTMENT DETAILS

SHEET 3

PRE_317

DRAFT

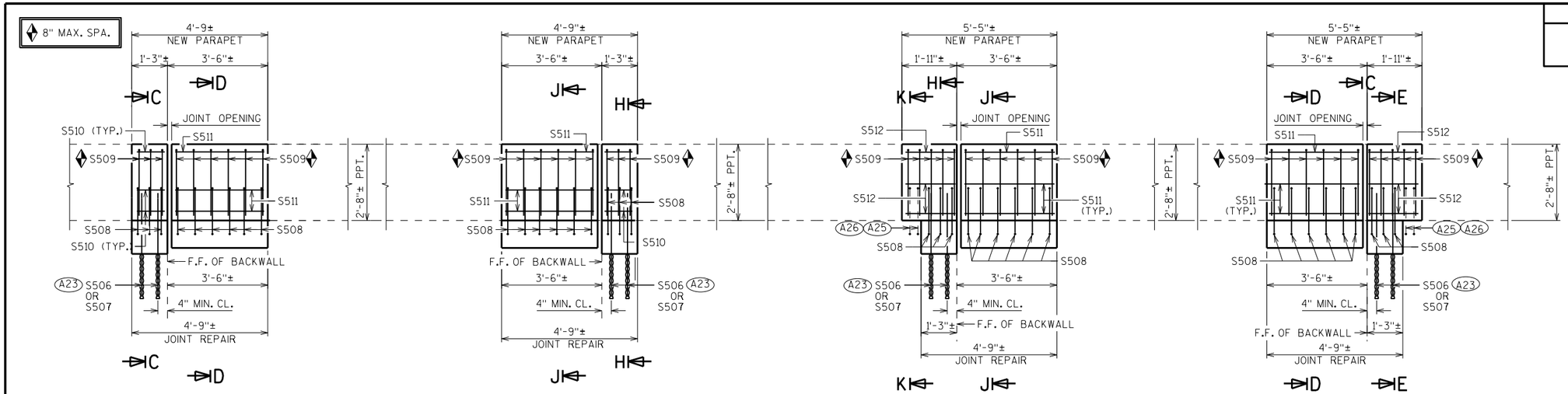
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SCALE = 4.00

STATE PROJECT NUMBER

1228-22-71

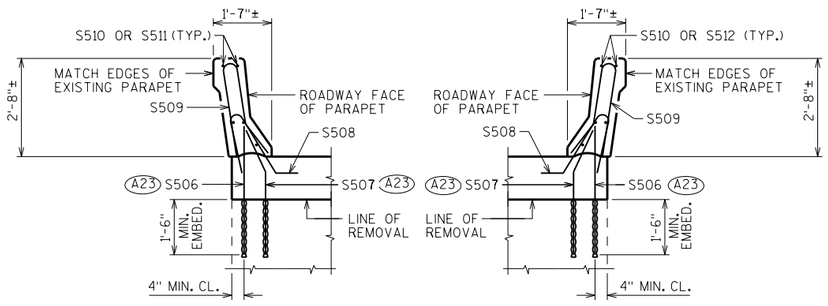


SECTION B-B
SOUTHEAST CORNER

SECTION G-G
SOUTHWEST CORNER

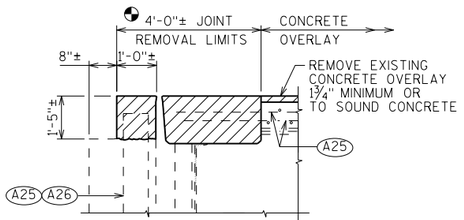
SECTION L-L
NORTHWEST CORNER

SECTION M-M
NORTHEAST CORNER

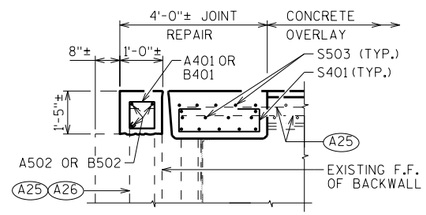


SECTION H-H

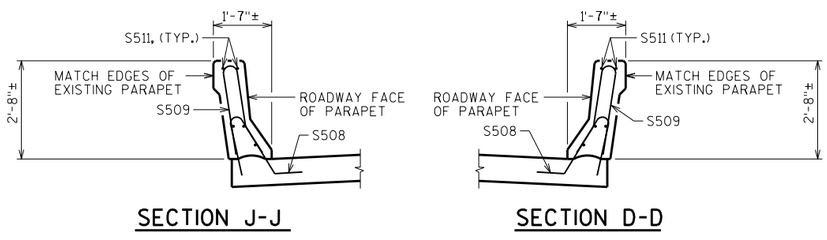
SECTION C-C



EXISTING SECTION F-F
SHOWING REMOVAL

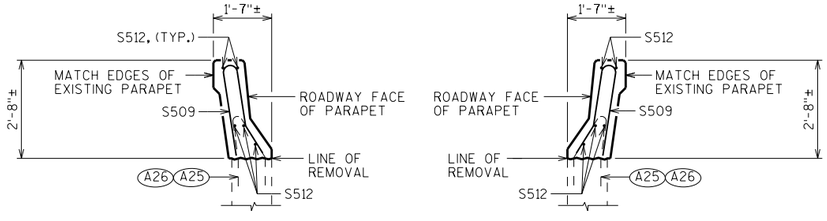


NEW SECTION F-F



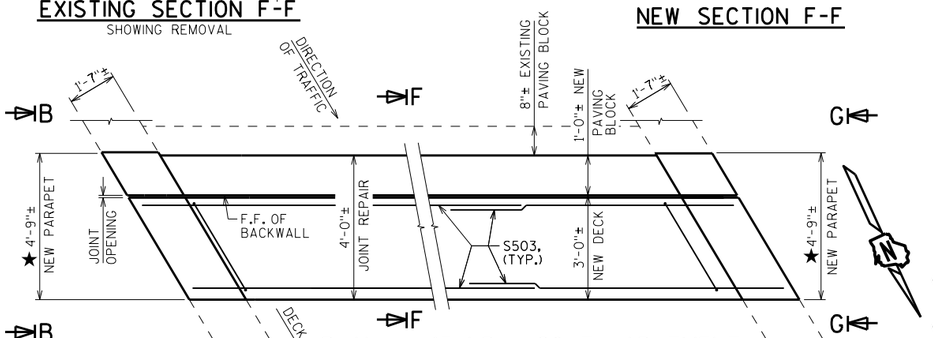
SECTION J-J

SECTION D-D

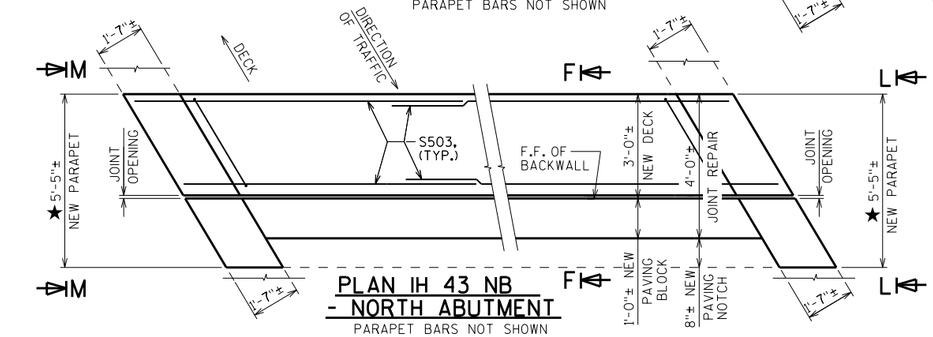


SECTION K-K

SECTION E-E



PLAN IH 43 NB - SOUTH ABUTMENT
PARAPET BARS NOT SHOWN



PLAN IH 43 NB - NORTH ABUTMENT
PARAPET BARS NOT SHOWN

NOTE:
SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

★ DIMENSION MEASURED ALONG PARAPET FACE

SEE SHEET 3 FOR CORRESPONDING PARAPET REMOVAL LIMITS

(A23) ADHESIVE ANCHORS NO. 5 BAR, EMBED 1'-6" INTO EXISTING CONCRETE.

(A25) SALVAGE ANY VERT. EXIST. REINF. IF PRESENT & EXTEND FULL LENGTH INTO NEW WORK.

(A26) IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH ADHESIVE ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 1'-6". WORK TO BE PAID UNDER ITEM "JOINT REPAIR".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

NORTHBOUND PARAPET DETAILS

SHEET 4

PRE_318

DRAFT

SCALE = 4.00

8

8

STATE PROJECT NUMBER

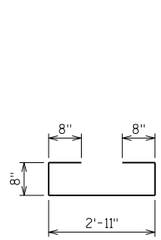
1228-22-71

BILL OF BARS

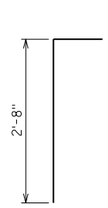
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	108	5'-3"	X		ABUT. DIAPH. - VERT.
S602	X	60	8'-8"			ABUT. DIAPH. - HORIZ.
S503	X	36	31'-0"			JOINT REPAIR - HORIZ.
(A23) S504	X	112	3'-4"	X		BACKWALL/PAV. BLOCK - CONC. ADHESIVE ANCHORS - VERT.
S405	X	24	8'-8"			EXPANSION DEVICE - HORIZ. - BETWEEN GIRDERS
(A23) S506	X	4	3'-6"	X		WEST/EAST PARAPET - CONC. ADHESIVE ANCHORS - VERT.
(A23) S507	X	4	3'-6"			WEST/EAST PARAPET - CONC. ADHESIVE ANCHORS - VERT.
S508	X	18	4'-3"			EAST PARAPET - VERT.
S509	X	20	4'-4"	X		EAST PARAPET - VERT.
S510	X	10	11"			WEST & EAST PARAPET - HORIZ.
S511	X	20	3'-1"			WEST & EAST PARAPET - HORIZ.
S512	X	10	1'-7"			WEST & EAST PARAPET - HORIZ.
S413	X	24	8'-8"			EXPANSION DEVICE - HORIZ. - BETWEEN GIRDERS

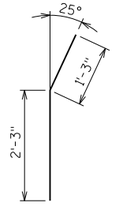
(A23) ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-6" INTO EXISTING CONCRETE.



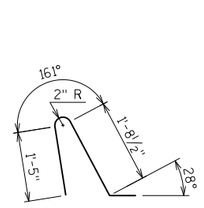
S401



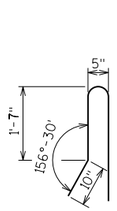
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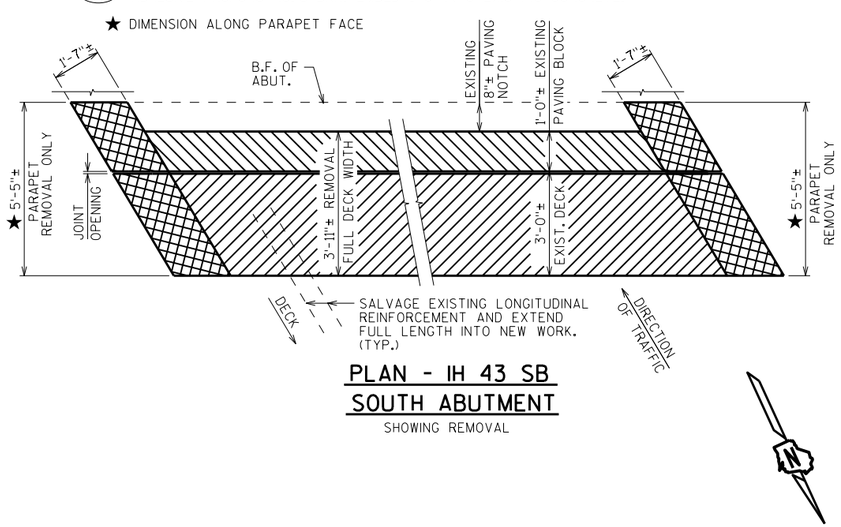
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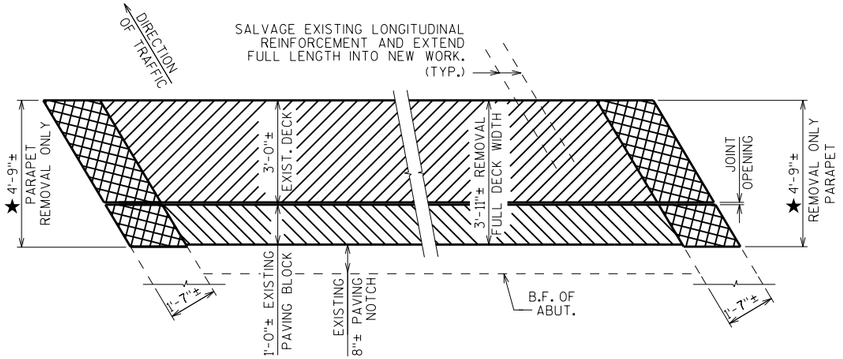
S508



S509



PLAN - IH 43 SB
SOUTH ABUTMENT
SHOWING REMOVAL

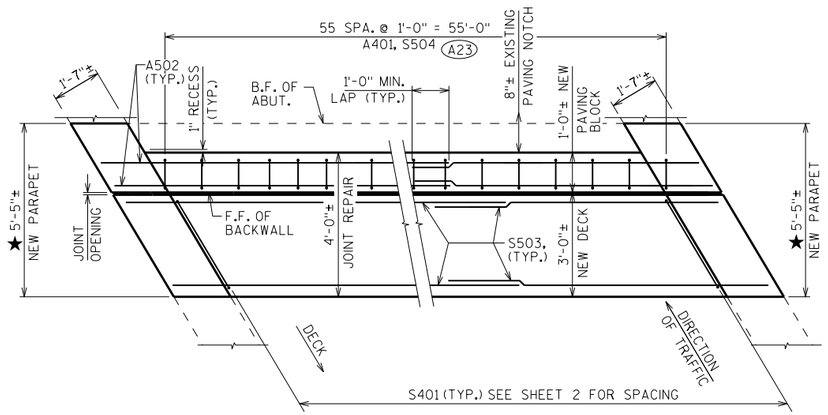


PLAN - IH 43 SB
NORTH ABUTMENT
SHOWING REMOVAL

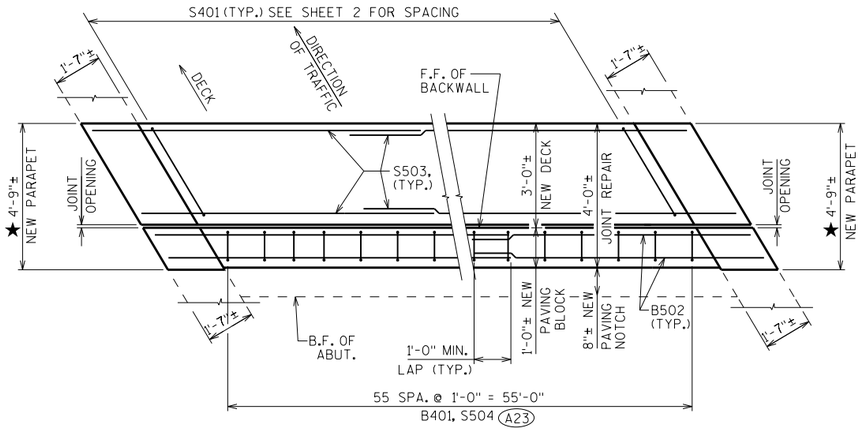
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

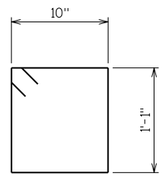
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401	X	56	4'-0"	X		PAVING BLOCK - VERT. - S. ABUT.
A502	X	6	31'-0"			PAVING BLOCK - HORIZ. - S. ABUT.
B401	X	56	4'-0"	X		PAVING BLOCK - VERT. - N. ABUT.
B502	X	6	31'-0"			PAVING BLOCK - HORIZ. - N. ABUT.



PLAN - IH 43 SB
SOUTH ABUTMENT
PARAPET BARS NOT SHOWN



PLAN - IH 43 SB
NORTH ABUTMENT
PARAPET BARS NOT SHOWN



A401, B401

NOTE:
SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

SOUTHBOUND ABUTMENT DETAILS

SHEET 5

PRE_319

DRAFT

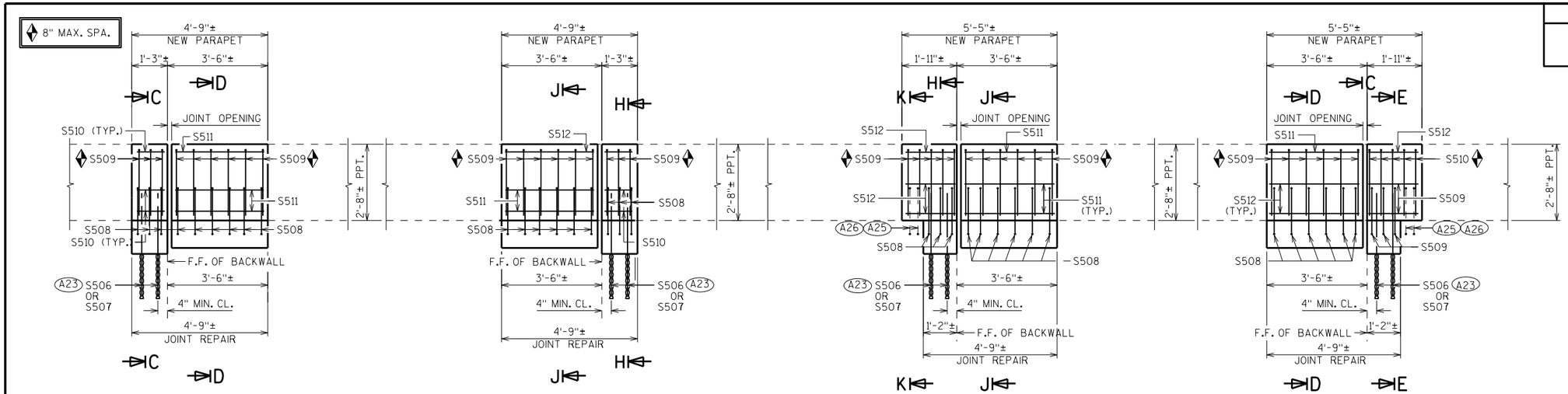
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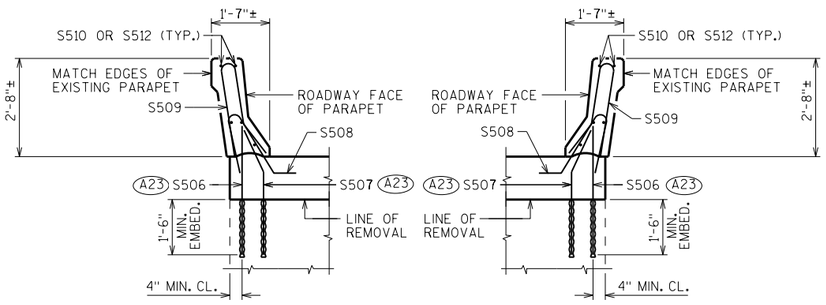
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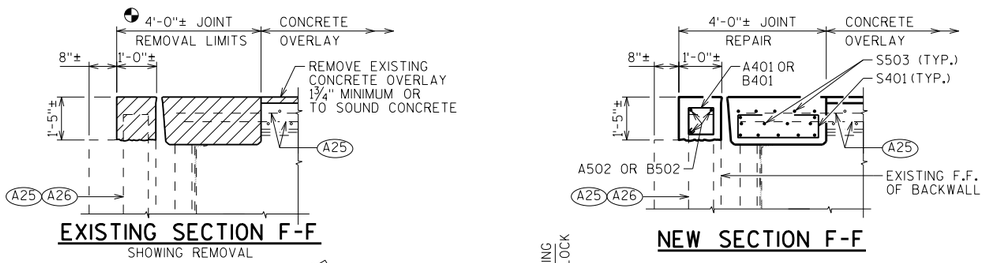
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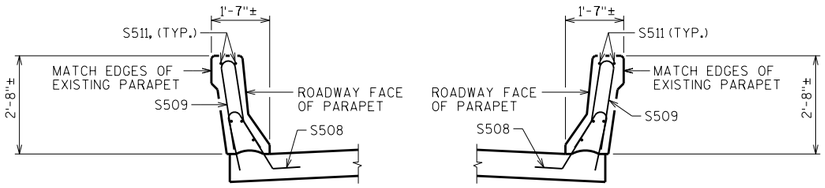
STATE PROJECT NUMBER

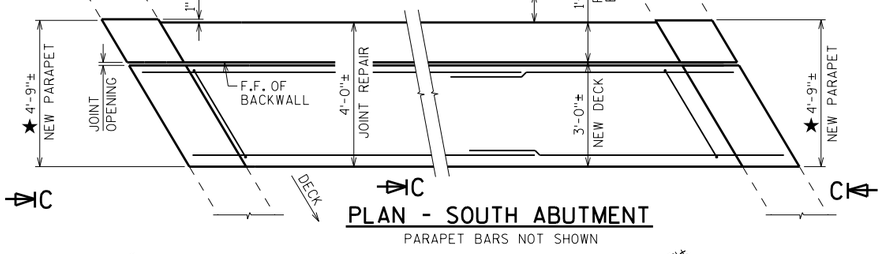
1228-22-71

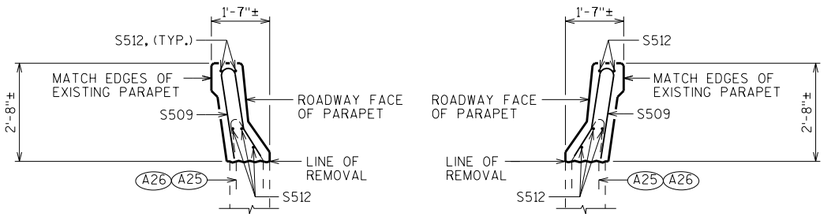


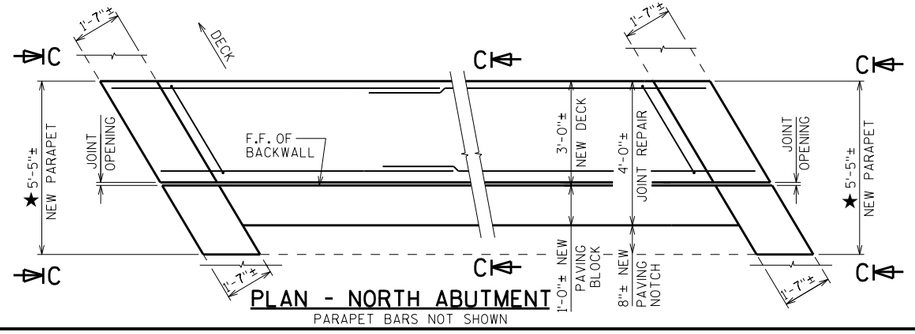












★ DIMENSION MEASURED ALONG PARAPET FACE

NOTE:
SALVAGE ALL EXISTING HORIZONTAL PARAPET REINFORCEMENT AND EXTEND FULL LENGTH INTO NEW WORK.

SEE SHEET 2 FOR CORRESPONDING PARAPET REMOVAL LIMITS

(A23) ADHESIVE ANCHORS NO. 5 BAR, EMBED 1'-6" INTO EXISTING CONCRETE.

(A25) SALVAGE ANY VERT. EXIST. REINF. IF PRESENT & EXTEND FULL LENGTH INTO NEW WORK.

(A26) IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH ADHESIVE ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 1'-6". WORK TO BE PAID UNDER ITEM "JOINT REPAIR".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

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SOUTHBOUND PARAPET DETAILS

SHEET 6

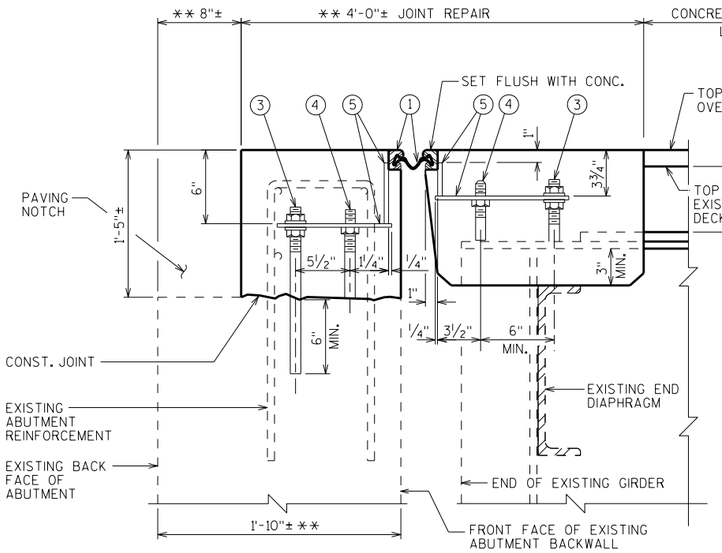
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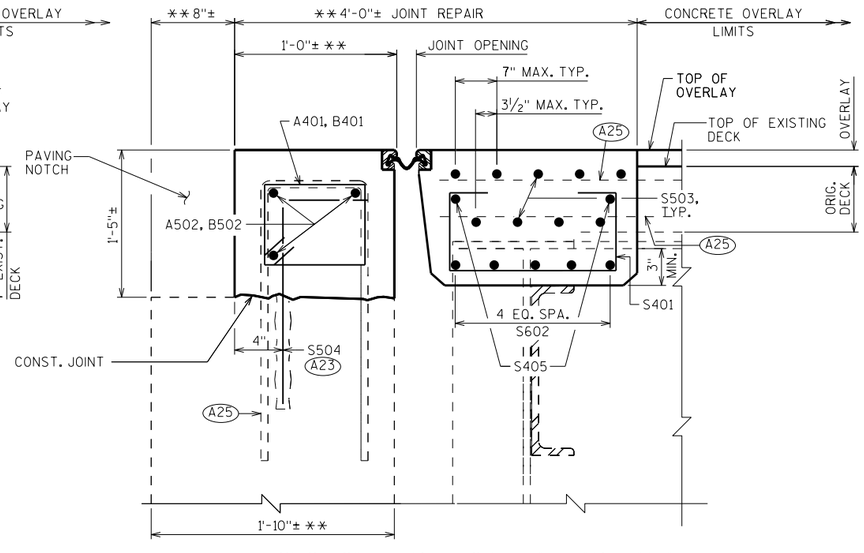
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8



SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
TYP. AT (BOTH ABUTMENTS)



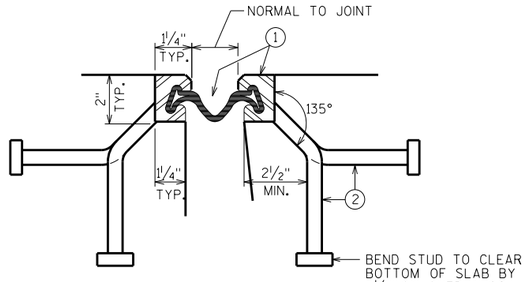
SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE
TYP. AT (BOTH ABUTMENTS)

** DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE

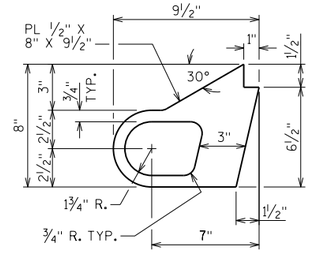
(A23) ADHESIVE ANCHORS NO. 5 BAR, EMBED 1'-6" INTO EXIST. CONCRETE.

(A25) SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.

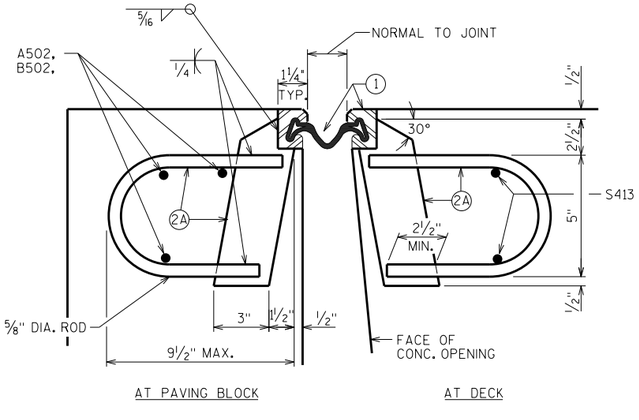


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF SLAB AT PARAPETS

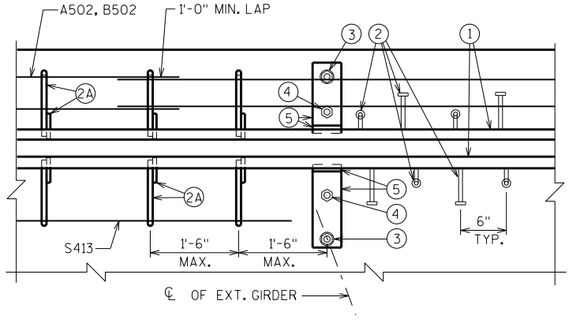


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

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LEGEND

(1) NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.

(2) STUDS ⅝" DIA. X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE. WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

(4) ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. FIELD OR SHOP WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" DIA. HOLE FOR NO. 3 & 1" DIA. HOLE FOR NO. 4.

(6) GALVANIZED PLATE ⅜" X 1'-0" X 2'-2" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.

(7) ¾" DIA. X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.

(8) ¾" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

(9) ¾" DIA. X 2¼" GALVANIZED THREADED COUPLING.

(10) 1" X 5" SLOTTED CSK. HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

(11) GALVANIZED PLATE ⅜" X 10½" X 2'-2" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.

GENERAL NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-40-116".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

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EXPANSION DEVICE

SHEET 7

PRE_321

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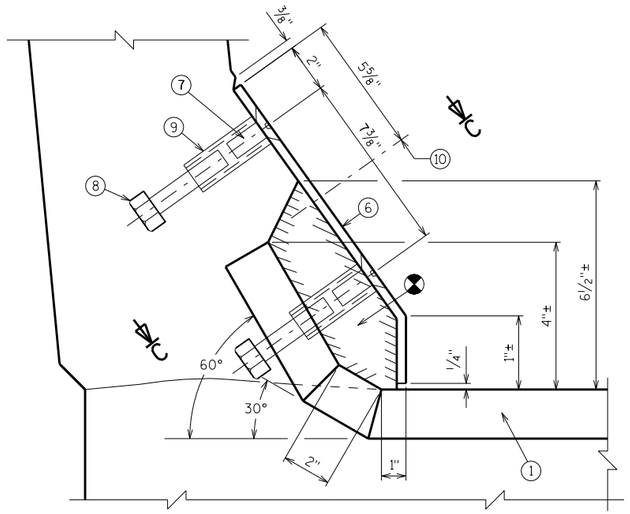
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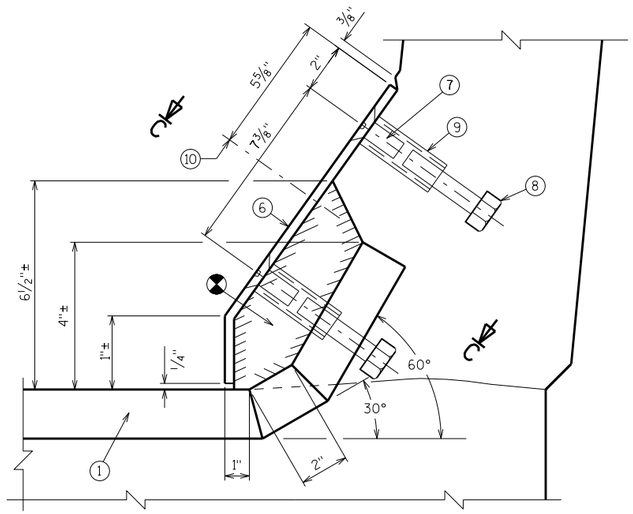
STATE PROJECT NUMBER

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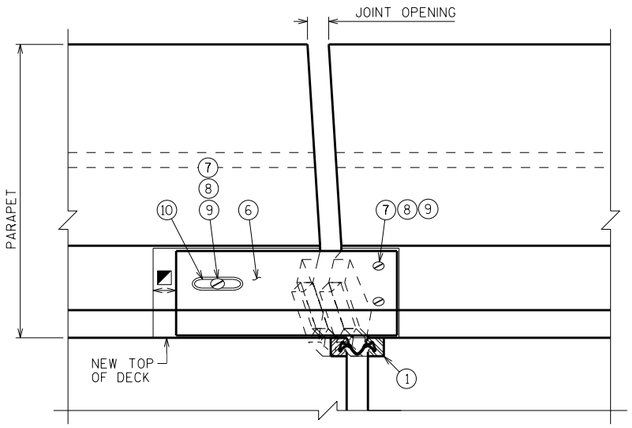
PARAPET TYPE B

SECTION B-B

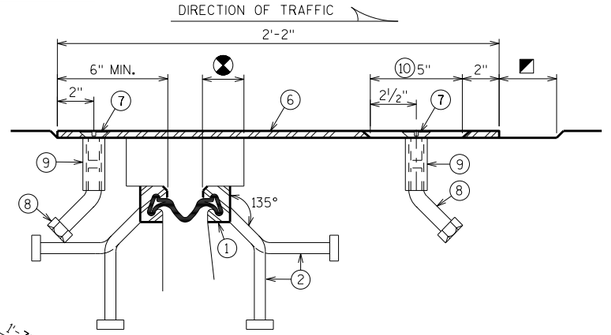


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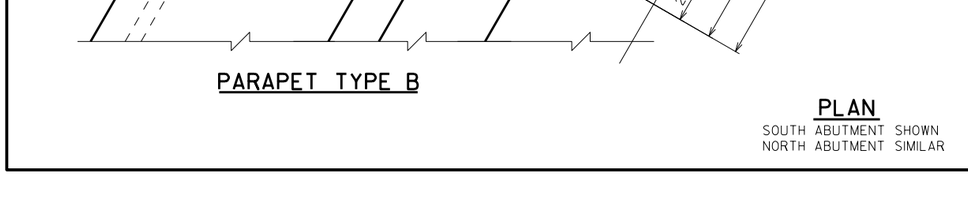
SECTION A-A



VIEW OF PARAPET PLATE
FROM ROADWAY



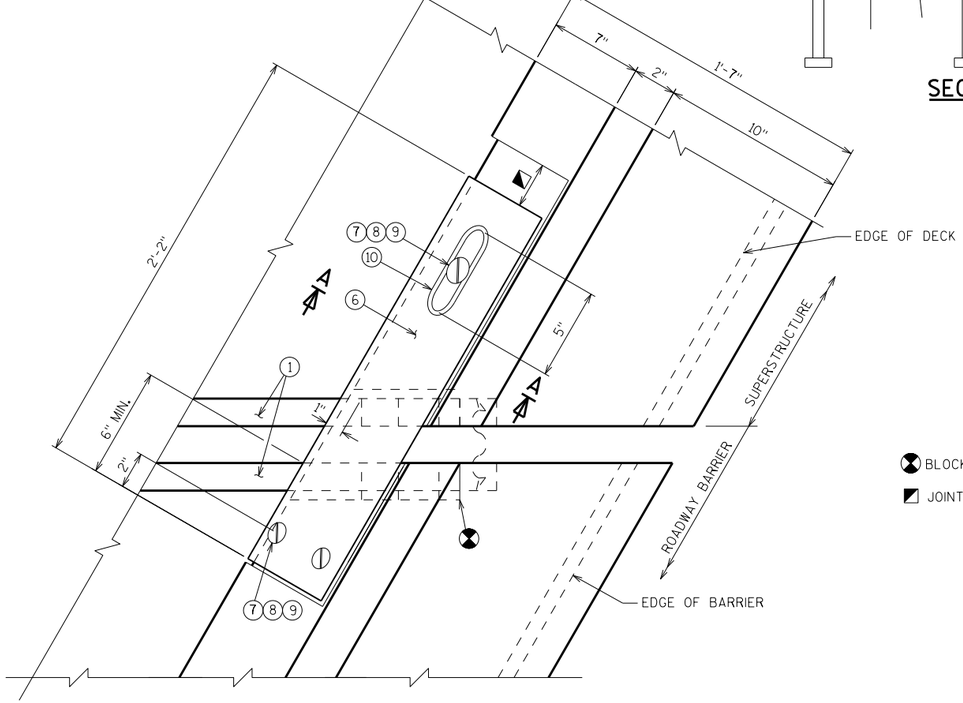
SECTION C-C



PARAPET TYPE B

PLAN

SOUTH ABUTMENT SHOWN
NORTH ABUTMENT SIMILAR



PARAPET TYPE B

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIM. ALONG SKEW PLUS 1/2".

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

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COVER PLATE DETAILS

SHEET 8

PRE_322

DRAFT

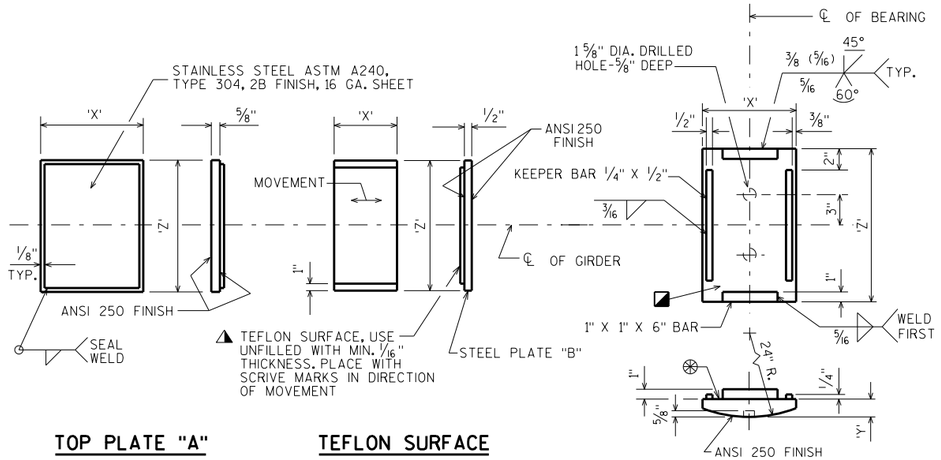
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STATE PROJECT NUMBER

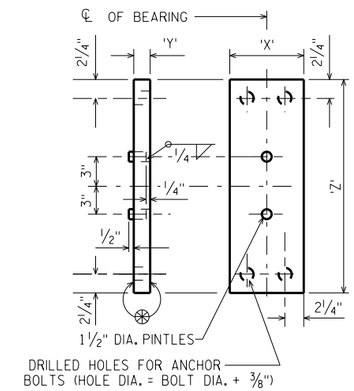
1228-22-71



TOP PLATE "A"

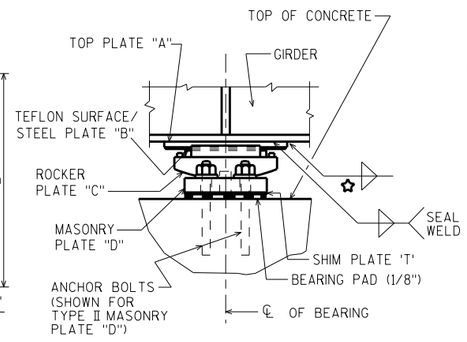
TEFLON SURFACE ON PLATE "B"

ROCKER PLATE "C"



SEE BEARING PLATE PLAN VIEW FOR ANCHOR HOLE LOCATIONS

TYPE II MASONRY PLATE "D"



EXPANSION BEARING ASSEMBLY

EXPANSION BEARING

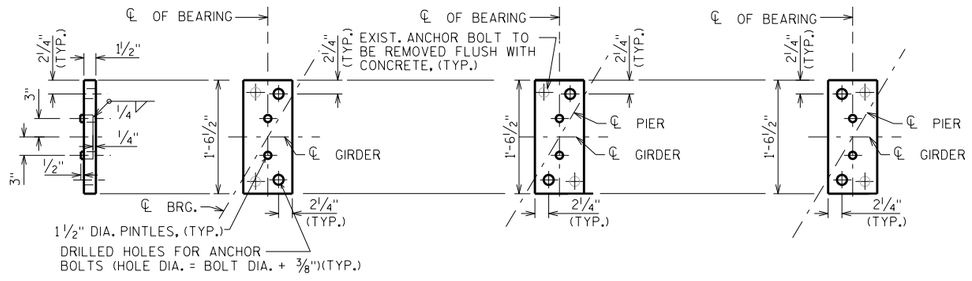
	PLATE "A"		PLATE "B"		PLATE "C"			PLATE "D"			PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
	'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'				
EXPAN. BEARING	8"	10 1/2"	6"	10 1/2"	8"	1 3/8"	10 1/2"	8"	1 1/2"	1'-6 1/2"	TYPE II	(2) - 1 1/4" DIA. X 1'-6" LONG	14	SOUTH ABUTMENT
	8"	10 1/2"	6"	10 1/2"	8"	1 3/8"	10 1/2"	8"	2"	1'-6 1/2"	TYPE II	(2) - 1 1/4" DIA. X 1'-6" LONG	14	PIER 2
	8"	10 1/2"	6"	10 1/2"	8"	1 3/8"	10 1/2"	8"	1 1/2"	1'-6 1/2"	TYPE II	(2) - 1 1/4" DIA. X 1'-6" LONG	14	NORTH ABUTMENT

TABLE OF SHIM 'T' THICKNESS

BEAMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
S. ABUT.	-	3/8"	-	3/8"	5/8"	-	-	1/2"	-	-	-	-	-	-
PIER 2	-	3/8"	-	1/2"	-	-	-	3/8"	-	3/8"	-	-	-	-
NORTH ABUTMENT	-	1/2"	-	3/8"	-	-	-	3/8"	-	1/2"	-	-	-	-

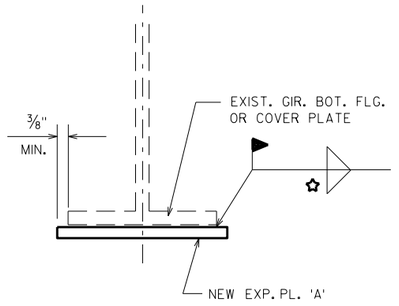
+ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"



SOUTH ABUT. PIER 2 NORTH ABUT.

BEARING PLATE PLAN VIEW



BEARING REPLACEMENT DETAILS

BEARING NOTES

⊛ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-40-116"

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5 FOR 1 1/4" DIA. AND 1'-10 FOR 1 1/2" DIA. BOLTS. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 1/4", ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

EXPANSION BEARINGS:
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

◪ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

◭ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING REQUIREMENTS FOUND IN THE STANDARD SPECIFICATION.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND OTHER FOREIGN MATTER.

✿ TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	+ MIN. SIZE OF FILLET WELD
TO 1/2" INCLUSIVE	3/16"
OVER 1/2" TO 3/4"	1/4"
OVER 3/4" TO 1 1/2"	△ 5/16"
OVER 1 1/2" TO 2 1/4"	△ 3/8"
OVER 2 1/4" TO 6"	△ 1/2"

+ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"

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STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

REPLACEMENT EXPANSION BEARING DETAILS

SHEET 9

PRE_323

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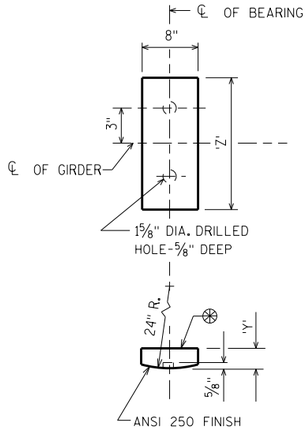
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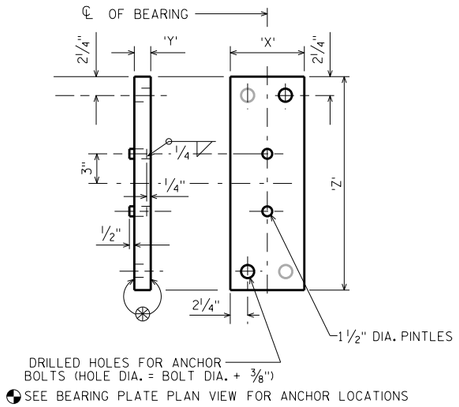
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STATE PROJECT NUMBER

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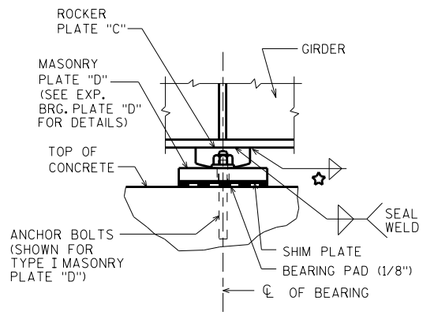


ROCKER PLATE "C"



TYPE II

MASONRY PLATE "D"



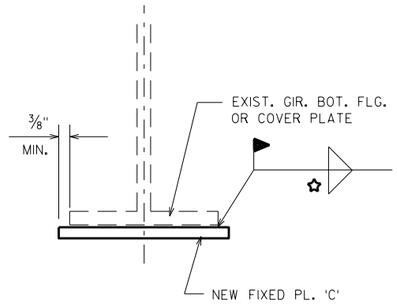
FIXED BEARING ASSEMBLY

FIXED BEARING

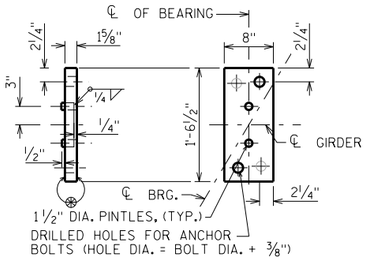
	PLATE "C"			PLATE "D"		PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
	'Y'	'Z'	'X'	'Y'	'Z'				
FIXED BEARING	1⁵⁄₁₆"	10½"	8"	1⅝"	1'-6½"	TYPE II	(2) - 1¼" DIA. X 1'-6" LONG	14	PIER 1

TABLE OF SHIM 'T' THICKNESS

BEAMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PIER 1	-	⅜"	-	½"	-	-	-	⅜"	-	⅜"	-	-	-	-



BEARING REPLACEMENT DETAILS



PIER 1

✿ TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	∔ MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	³⁄₁₆"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	△ ⁵⁄₁₆"
OVER 1½" TO 2¼"	△ ⅜"
OVER 2¼" TO 6"	△ ½"

∔ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS ⁵⁄₁₆"

BEARING NOTES

✿ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES FIXED B-40-116", EACH.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

PROVIDE ⅛" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5" FOR 1 ¼" Φ AND 1'-10" FOR 1½" Φ BOLTS. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 ¼". ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES ⅛". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

FIXED BEARINGS:
ROCKER PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER.
MASONRY PLATE "D" SHALL BE GALVANIZED.

EXPANSION BEARINGS:
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

◪ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

REPLACEMENT FIXED BEARING DETAILS

SHEET 10

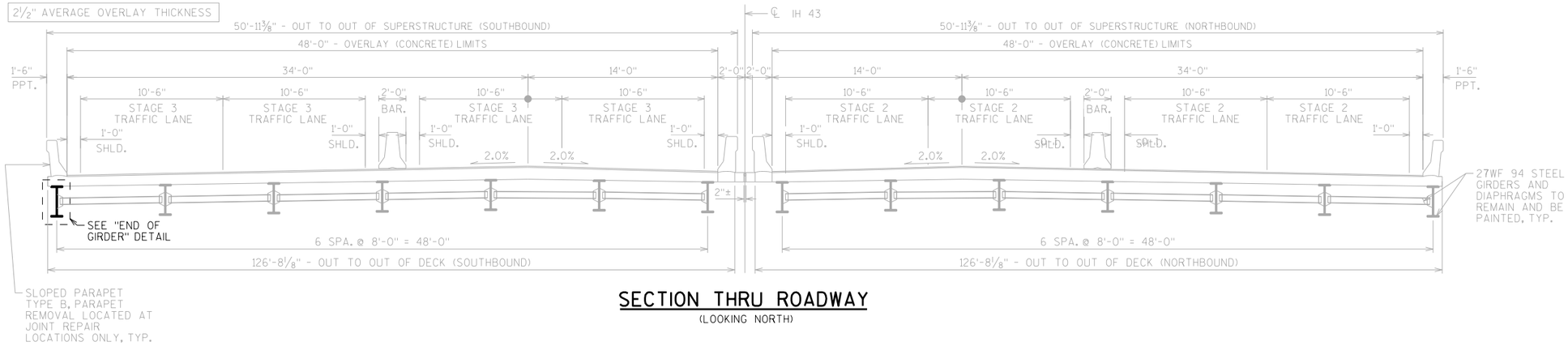
PRE_324

DRAFT

SCALE = 1.00

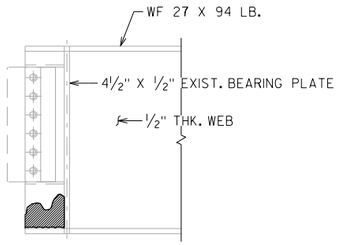
STATE PROJECT NUMBER

1228-22-71



SECTION THRU ROADWAY

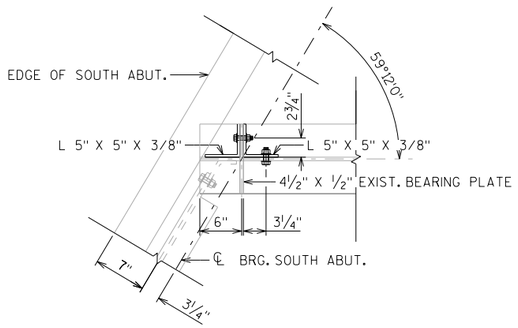
(LOOKING NORTH)



END OF GIRDER

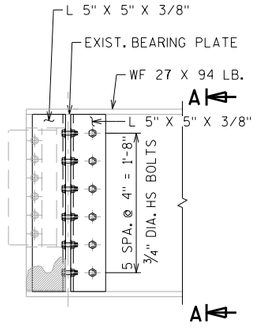
(SOUTH ABUT., LOOKING WEST)

WEB SECTION LOSS AREA



PLAN

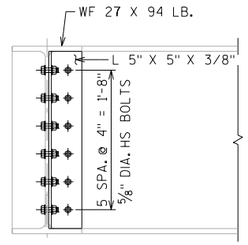
(SOUTH ABUT.)



END GIRDER REPAIR

(SOUTH ABUT., LOOKING EAST)

WEB SECTION LOSS AREA



SECTION A-A

(SOUTH ABUT., LOOKING SOUTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

STEEL ANGLES SHALL CONFORM TO ASTM A709 GRADE 36 STEEL.

FIELD CONNECTIONS SHALL BE MADE WITH ⅝" AND ¾" DIAMETER A325 HIGH TENSILE STRENGTH BOLTS WITH A325 NUT AND WASHER.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-116

DRAWN BY JJS | PLANS CK'D.

GIRDER END REPAIR

SHEET 11

PRE_325

DRAFT

SCALE = 11.00

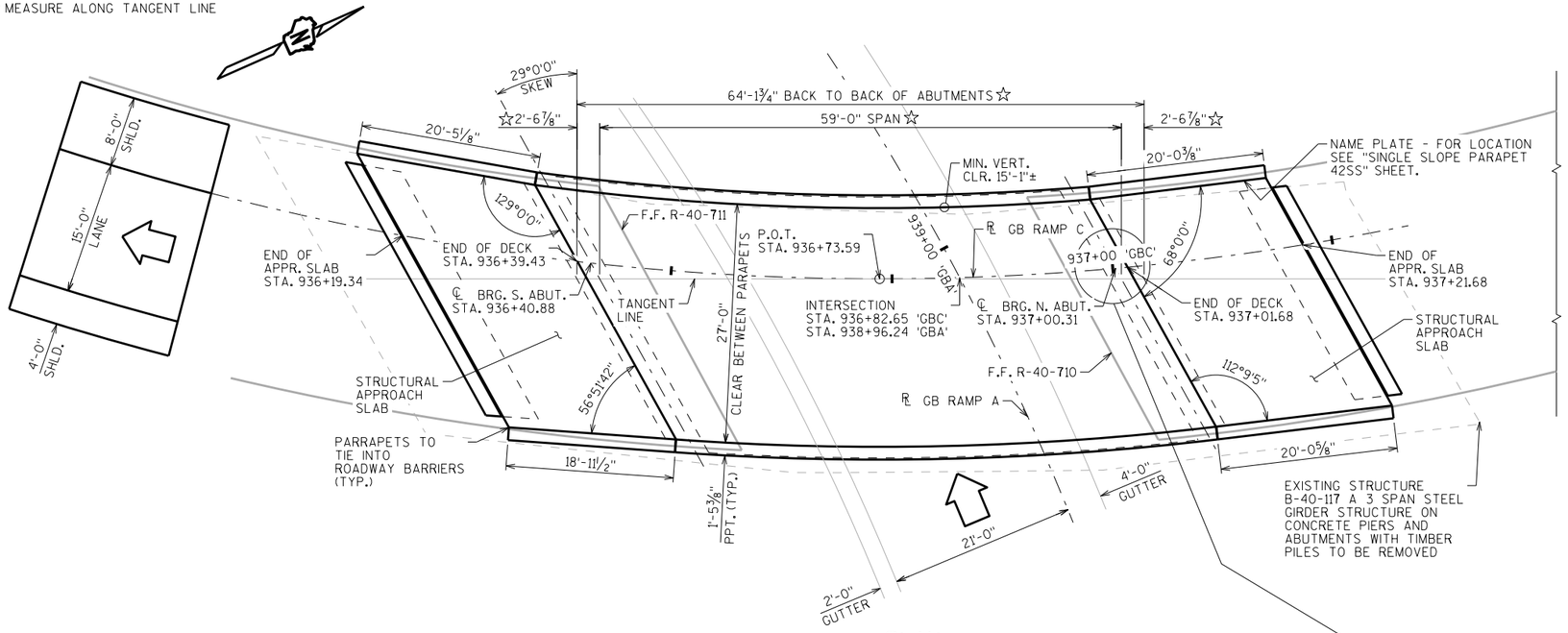
8

8

STATE PROJECT NUMBER

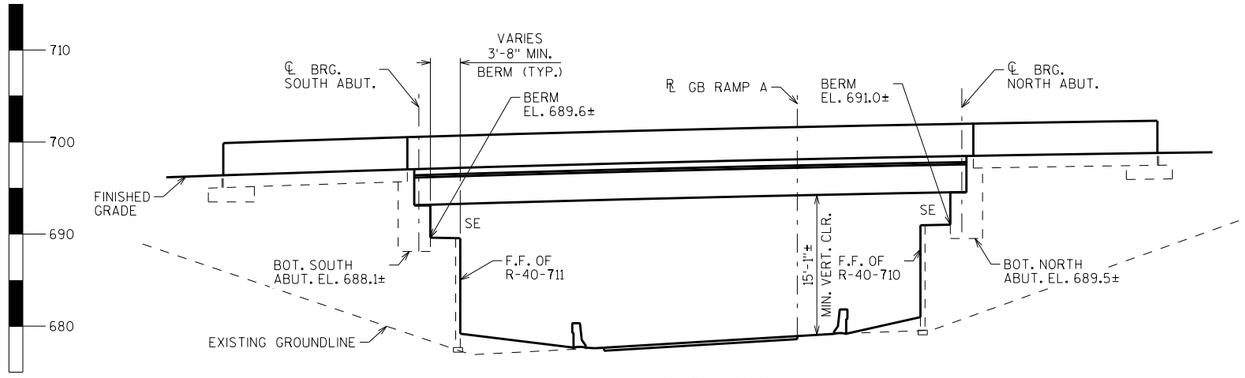
1228-22-71

☆ MEASURE ALONG TANGENT LINE



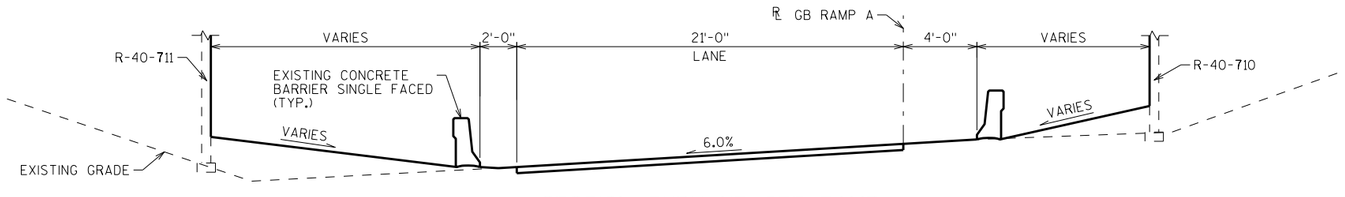
PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS



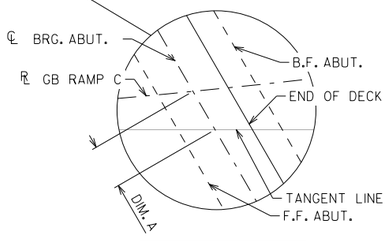
ELEVATION

NORMAL TO SB OFF RAMP TANGENT LINE



SECTION THRU NB OFF RAMP

LOOKING WEST



LOCATION	DIM. A
SOUTH ABUT.	2'-0½"
NORTH ABUT.	1'-4¼"

TANGENT OFFSET & DETAIL TABLE

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

IH 43 SB OFF RAMP
ADT = 4,700 (2021)
R.D.S. = 25 M.P.H.

IH 43 NB OFF RAMP
ADT = 6,000 (2021)
R.D.S. = 25 M.P.H.

CURVE DATA

℄ GB RAMP C	℄ GB RAMP A
P.I. = 936+70.19	P.I. = 954+74.74
△ = 51°29'58"	△ = 164°00'00"
D = 19°05'55"	D = 18°59'25"
T = 144.70'	T = 2146.79'
L = 260.67'	L = 863.60'
R = 300.00'	R = 301.71'
S.E. = 5.0%	S.E. = 6.0%
P.C. = 935+25.49SB	P.C. = 933+27.95
P.T. = 937+95.14SB	P.T. = 941+91.55

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES

PRELIMINARY PLAN

STRUCTURE DESIGN CONTACTS:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1014

IH 43 SB OFF RAMP TO GREEN BAY AVE.

COUNTY	CITY
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MWB	JLR	PJR	MWB

GENERAL PLAN

SHEET 1 OF 2

PRE_326

I.D. 1228-22-01AF DATE: JAN 2020

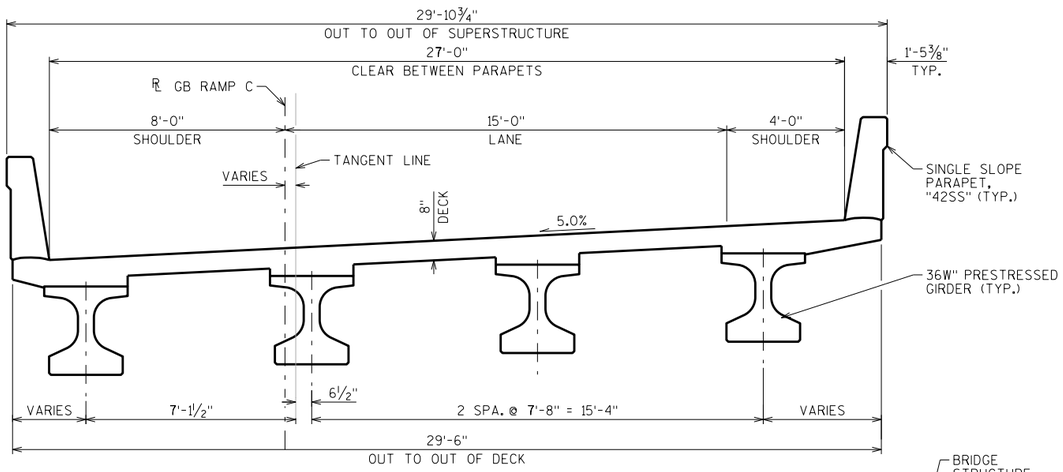
SCALE = 8.00

8

8

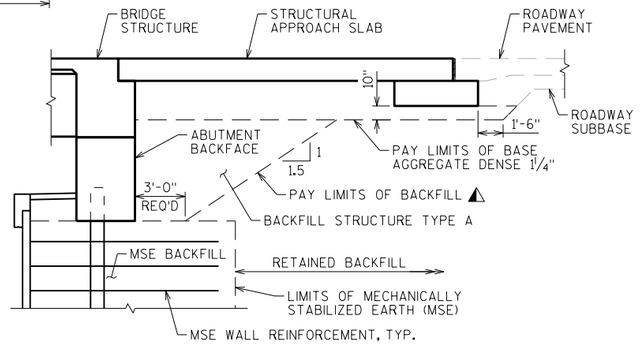
STATE PROJECT NUMBER

1228-22-71



CROSS SECTION THRU IH 43 SB RAMP

LOOKING NORTH



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-40-1014" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

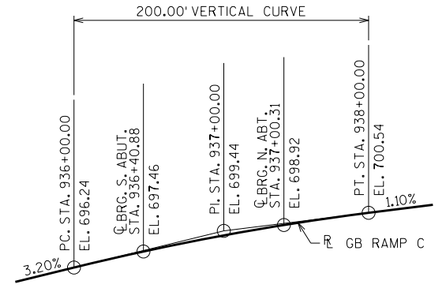
PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

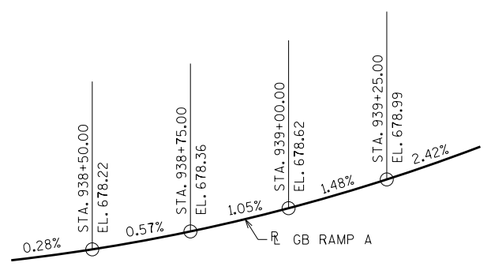
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W PRESTRESSED GIRDER DETAILS 2" SHEET.

TOTAL ESTIMATED QUANTITIES

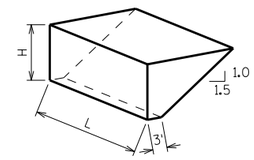
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. STRUCT. APP. SLAB	SOUTH ABUT.	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
203.0200	REMOVING OLD STRUCTURE 936+43.30	LS	---	---	---	---	---	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1014	LS	---	---	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	---	---	---	---	---
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	---	---	---	---
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	---	---	---
502.3210	PIGMENTED SURFACE SEALER	SY	---	---	---	---	---	---
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	---	---	---	---	---	---
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	---	---	---	---
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	---	---	---	---
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	---	---	---	---	---	---
506.4000	STEEL DIAPHRAGMS B-40-1014	EACH	---	---	---	---	---	---
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	---	---	---	---	---
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	---	---	---	---	---	---
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	---	---	---	---	---
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	---	---	---	---	---	---
	NON-BID ITEMS							
	FILLER	SIZE	---	---	---	---	---	½", ¾", 1½"



PROFILE GRADE LINE - IH 43 SB OFF RAMP



PROFILE GRADE LINE - IH 43 NB OFF RAMP



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1014

DRAWN BY PJR | PLANS CK'D. MWB

CROSS SECTION & QUANTITIES

SHEET 2

PRE_327

8

8

SCALE = 2.50

STATE PROJECT NUMBER

1228-22-71

(11) INDICATES WING NUMBER

BENCHMARK CAP. FOR LOCATION SEE PARAPET SHEET.

EXISTING 9-SPAN PRESTRESSED CONCRETE GIRDER STRUCTURE, B-40-66, TO BE REMOVED PRIOR TO B-40-1018 CONSTRUCTION.

MILWAUKEE RIVER

B-40-1018

B-40-1016

TEMPORARY SHORING

16'-0"±

PARTIAL REMOVAL OF EXISTING B-40-66 NEEDED FOR B-40-1016 CONSTRUCTION

PGL IH-43 SB

℄ IH-43

PGL IH-43 NB

978+00 "IH 43"

979+00 "IH 43"

980+00 "IH 43"

981+00 "IH 43"

982+00 "IH 43"

983+00 "IH 43"

LIGHT STD. STA. 979+93.90 "IH 43" OFFSET 8.88'RT.

LIGHT STD. STA. 982+58.20 "IH 43" OFFSET 8.88'RT.

℄ BRG. S. ABUT. STA. 977+54.61 "IH 43" OFFSET 27.25'RT.

SLOPE PAVING CRUSHED AGGREGATE

END OF DECK STA. 977+53.36 "IH 43" OFFSET 27.25'RT.

END OF STRUCTURAL APPROACH SLAB STA. 977+33.36 "IH 43" OFFSET 27.25'RT.

℄ PIER 1 STA. 978+83.61 "IH 43" OFFSET 27.25'RT.

℄ PIER 2 STA. 980+12.61 "IH 43" OFFSET 27.25'RT.

℄ PIER 3 STA. 981+41.61 "IH 43" OFFSET 27.25'RT.

℄ PIER 4 STA. 982+36.61 "IH 43" OFFSET 27.25'RT.

℄ BRG. N. ABUT. STA. 983+31.61 "IH 43" OFFSET 27.25'RT.

END OF DECK STA. 983+32.87 "IH 43" OFFSET 27.25'RT.

END OF STRUCTURAL APPROACH SLAB STA. 983+52.87 "IH 43" OFFSET 27.25'RT.

70'-0" - CLEAR ROADWAY WIDTH

PIER 1 COFFERDAM

PIER 2 COFFERDAM

TEMPORARY SHORING, TYP.

982+20.10 "IH 43" OFFSET 27.25'RT. = 15+47.28 "HA"

982+18.70 "IH 43"= 15+20.00 "HA"

87°44'17.39"

℄ HAMPTON AVE.

14+00 "HA"

14+50 "HA"

15+00 "HA"

15+50 "HA"

11'-0" LANE

11'-0" LANE

11'-0"± L.T.L. VARIES MEDIAN

2'-6" C. & G.

5'-0" TERR.

10'-0" PATH

2'-0" BARRIER

12'-0" SHLD.

12'-0" LANE

12'-0" LANE

12'-0" LANE

12'-0" FUTURE LANE

10'-0" SHLD.

2'-0" BARRIER

2'-0" BARRIER

10'-0" SHLD.

12'-0" FUTURE LANE

12'-0" LANE

12'-0" LANE

12'-0" LANE

12'-0" SHLD.

2'-0" BARRIER

2'-6" C.&G.

11'-0" LANE

VARIES. MEDIAN

10'-0"± L.T.L.

11'-0" LANE

18'-0"

41'-0"±

2'-0"

2°55'42.61" SKEW, TYP.

1'-5⅜" PPT. TYP.

2'-3"

129'-0" - SPAN 1 72W" PRESTRESSED GIRDER

129'-0" - SPAN 2 72W" PRESTRESSED GIRDER

129'-0" - SPAN 3 72W" PRESTRESSED GIRDER

95'-0" - SPAN 4 36W" PRESTRESSED GIRDER

95'-0" - SPAN 5 36W" PRESTRESSED GIRDER

2'-0"

14'-0"

2'-3"

581'-6⅛" - BACK TO BACK OF ABUTMENTS

CONCRETE SLOPE PAVING

NAME PLATE. FOR LOCATION SEE PARAPET SHEET.

TRAFFIC VOLUME

IH-43
ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

HAMPTON AVE.
ADT = 13,800 (2018)
R.D.S. = 30 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 14,800 C.F.S.
VEL.$_{100}$ = 5.5 F.P.S.
HW.$_{100}$ = EL. 621.02
WATERWAY AREA = 2,689 SQ. FT.
DRAINAGE AREA = 682 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 5

2 YEAR FREQUENCY
Q_2 = 4,270 C.F.S.
VEL.$_2$ = 3.2 F.P.S.
HW.$_2$ = EL. 615.54

PLAN

5-SPAN PRESTRESSED GIRDER

NOTE: UTILITIES SHOWN ARE APPROXIMATE. STATUS OF EACH LINE IS YET TO BE DETERMINED.

670
660
650
640
630
620
610
600

FINISHED GRADE

℄ BRG. S. ABUT.

2'-6" BERM, TYP.

42SS PARAPET, TYP.

℄ PIER 1

LIGHT STANDARD, TYP.

℄ PIER 2

℄ PIER 3

STRIP SEAL

℄ HAMPTON AVE.

℄ PIER 4

CONCRETE SLOPE PAVING

℄ BRG. N. ABUT.

CONC. RDWY BARRIER, TYP.

SLOPE PAVING CRUSHED AGGREGATE

BERM EL. 639.7±

STEEL PILING

BOT. OF ABUT. EL. 637.2±

HIGH WATER$_{100}$ EL. 621.0±

OBSERVED WATER EL. 611.3± (OCT. 2018)

BOT. OF FOOTING EL. 602.0±

EXIST. STREAMBED EL. 608.25±

BOT. OF FOOTING EL. 602.0±

72W" GIRDERS, TYP.

EXISTING GROUND LINE

STEEL PILING

BOT. OF FOOTING EL. 616.8±

36W" GIRDERS, TYP.

BOT. OF FOOTING EL. 630.2±

STEEL PILING

BERM EL. 649.5±

STEEL PILING

BOT. OF ABUT. EL. 647.0±

ELEVATION

NORMAL TO HAMPTON AVE.
LOOKING WEST (UPSTREAM)

MINIMUM VERTICAL UNDERCLEARANCE
SPAN 4 = 16'-11±
SPAN 5 = 17'-0½±

PRELIMINARY PLAN

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

72W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

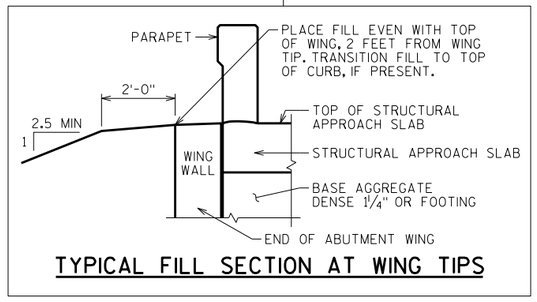
ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

PIERS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION
3. QUANTITIES & NOTES
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TYPICAL FILL SECTION AT WING TIPS

STRUCTURE DESIGN CONTACTS:
ADAM SWIERCZEK (608) 267-4593
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1016

IH-43 NB OVER MILWAUKEE RIVER & HAMPTON AVE.

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
ABS	SEW	ABS	SEW

GENERAL PLAN

SHEET 1 OF 3

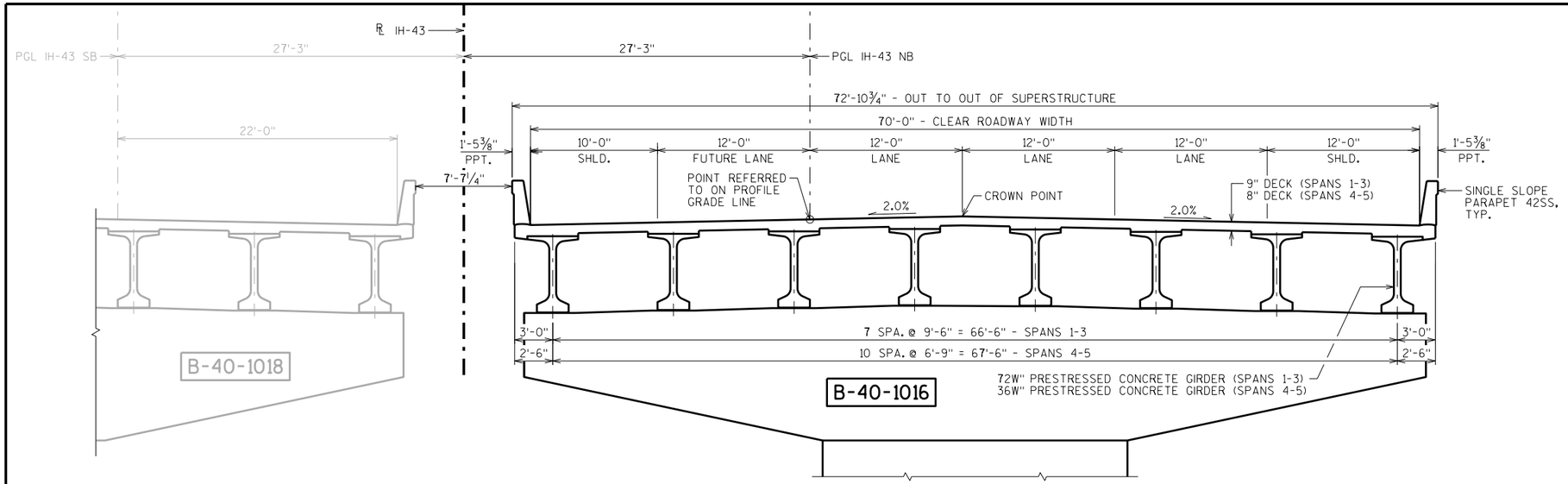
PRE_328

I.D. 1228-22-01A DATE: NOV. 2019

SCALE = 25.00

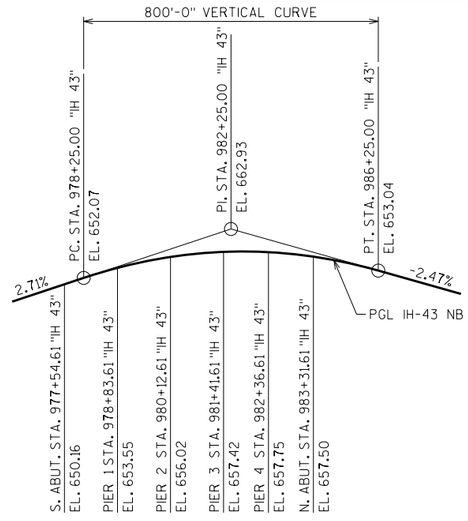
STATE PROJECT NUMBER

1228-22-71

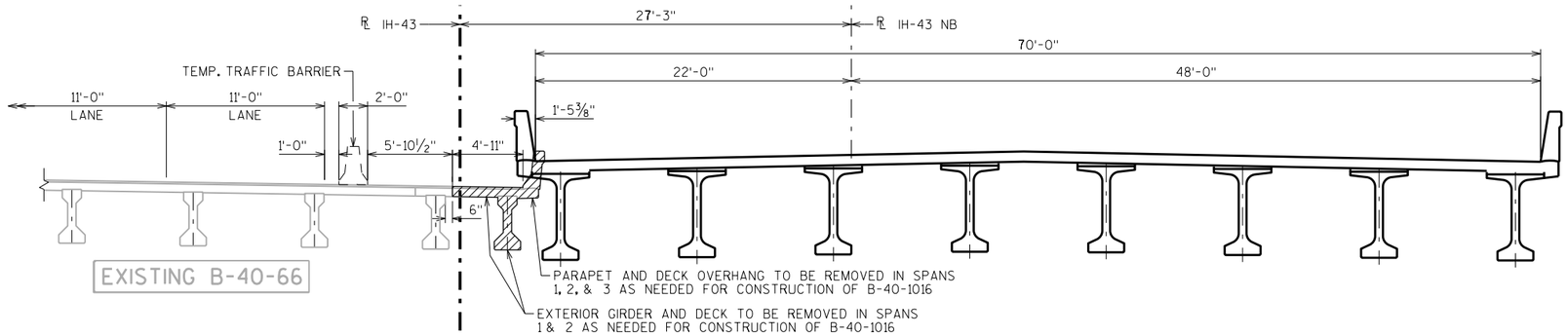


CROSS SECTION THRU ROADWAY

LOOKING NORTH

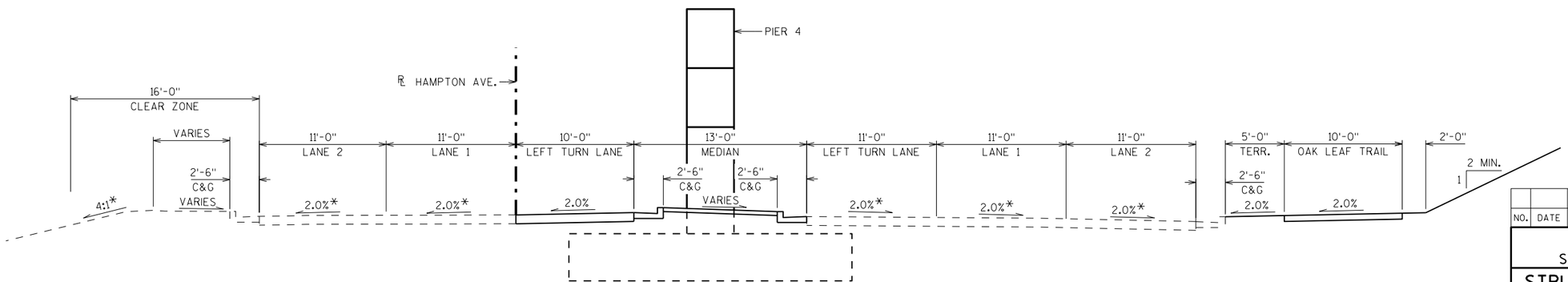


PROFILE GRADE LINE - IH-43 NB



PARTIAL REMOVAL OF EXISTING STRUCTURE SECTION

LOOKING NORTH



CROSS SECTION THRU UNDERPASS

LOOKING WEST

* DENOTES EXISTING SLOPE. MAY VARY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1016

DRAWN BY ABS | PLANS CK'D. SEW

CROSS SECTION

SHEET 2

PRE_329

SCALE = 5.00

8

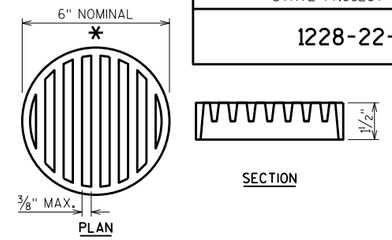
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STATE PROJECT NUMBER

1228-22-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. STRUCT. APP. SLAB	SOUTH ABUT.	PIER 1	PIER 2	PIER 3	PIER 4	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 977+50 "IH 43"	LS	---	---	---	---	---	---	---	---	---	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1016	LS	---	---	---	---	---	---	---	---	---	1
206.5000	COFFERDAMS B-40-1016	LS	---	---	---	---	---	---	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	---	---	---	---	---	---	---	---	0
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	---	---	---	---	---	---	---	---	---	0
501.1000.S	ICE HOT WEATHER CONCRETING	LB	---	---	---	---	---	---	---	---	---	0
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	---	---	---	---	---	---	---	0
502.1100	CONCRETE MASONRY SEAL	CY	---	---	---	---	---	---	---	---	---	0
502.3101	EXPANSION DEVICE B-40-1016	LF	---	---	---	---	---	---	---	---	---	0
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	---	---	---	---	---	---	0
502.3210	PIGMENTED SURFACE SEALER	SY	---	---	---	---	---	---	---	---	---	0
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	---	---	---	---	---	---	---	---	---	0
503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	---	---	---	---	---	---	---	---	---	0
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	---	---	---	---	---	---	---	---	---	0
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	---	---	---	---	---	---	---	---	---	0
506.4000	STEEL DIAPHRAGMS B-40-1016	EACH	---	---	---	---	---	---	---	---	---	0
511.1200	TEMPORARY SHORING B-40-1016	SF	---	---	---	---	---	---	---	---	---	0
514.0450	FLOOR DRAINS TYPE WF	EACH	---	---	---	---	---	---	---	---	---	0
514.2625	DOWNSPOUT 6-INCH	LF	---	---	---	---	---	---	---	---	---	0
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	---	---	---	---	---	---	---	---	0
550.XXXX	PILING STEEL XXXXXXXXXXXXXXXX	LF	---	---	---	---	---	---	---	---	---	0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	---	---	---	---	---	---	---	---	0
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	---	---	---	---	---	---	---	---	---	0
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	---	---	---	---	---	---	---	---	---	0
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	---	---	---	---	---	---	---	---	---	0
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	---	---	---	---	---	---	---	---	---	0
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	---	---	---	---	---	---	---	---	---	0
SPV.0035	HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES	CY	---	---	---	---	---	---	---	---	---	0
SPV.0165	LONGITUDINAL GROOVING BRIDGE DECK	SF	---	---	---	---	---	---	---	---	---	0
SPV.0180	SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	---	---	---	---	---	---	---	---	---	0
	NON-BID ITEMS											
	BRIDGE SEAT PROTECTION	LS	---	---	---	---	---	---	---	---	---	1
	FILLER	SIZE	---	---	---	---	---	---	---	---	---	½", ¾", 1½"

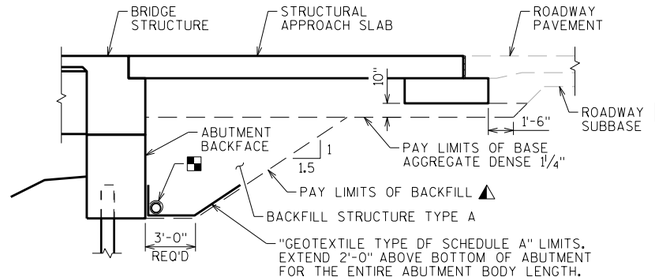


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

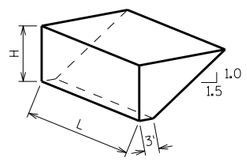
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

■ PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

PARTIAL REMOVAL OF EXISTING STRUCTURE, B-40-66, REQUIRED FOR SOUTH ABUTMENT CONSTRUCTION. REMAINDER OF REMOVAL IS INCLUDED IN B-40-1018 PLANS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-1016" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS, HP 12X53 STEEL PILING MAY BE USED IN LIEU OF HP 10X42 STEEL PILING. PAYMENT SHALL BE BASED ON BID PRICE FOR HP 10X42 STEEL PILING.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF PIER 3 BELOW THE EXPANSION DEVICE.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH OF _____ IN.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT PIERS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1016

DRAWN BY ABS | PLANS CK'D. SEW

QUANTITIES & NOTES

SHEET 3

PRE_330

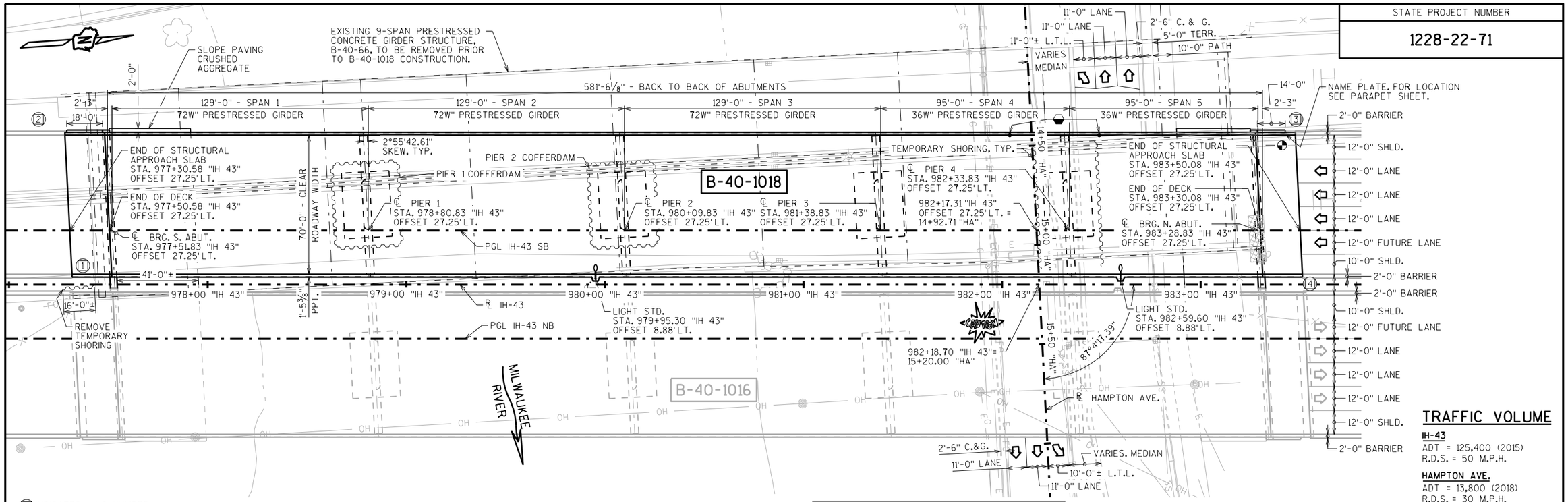
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8

8

STATE PROJECT NUMBER

1228-22-71



PLAN

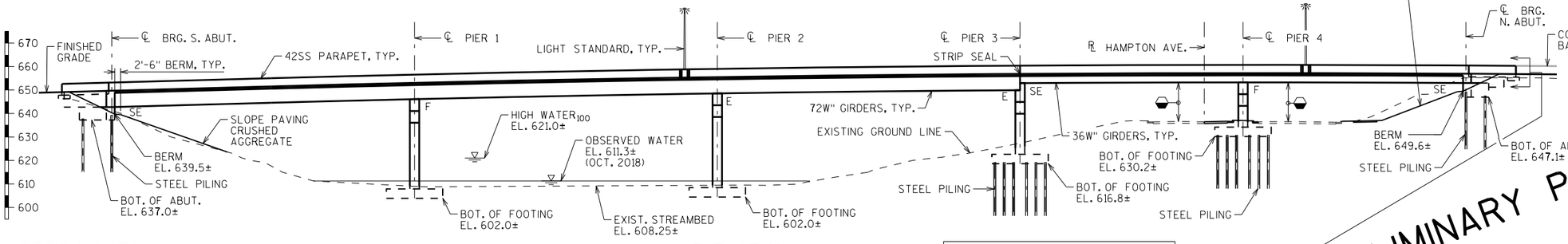
5-SPAN PRESTRESSED GIRDER

① INDICATES WING NUMBER

INDICATES FLOOR DRAIN

BENCHMARK CAP. FOR LOCATION SEE PARAPET SHEET.

NOTE: UTILITIES SHOWN ARE APPROXIMATE. STATUS OF EACH LINE IS YET TO BE DETERMINED.



ELEVATION

NORMAL TO HAMPTON AVE.
LOOKING WEST (UPSTREAM)

MINIMUM VERTICAL UNDERCLEARANCE
SPAN 4 = 16'-3"±
SPAN 5 = 16'-6"±

TRAFFIC VOLUME

IH-43
ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

HAMPTON AVE.
ADT = 13,800 (2018)
R.D.S. = 30 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 14,800 C.F.S.
$VEL._{100}$ = 5.5 F.P.S.
$HW._{100}$ = EL. 621.02
WATERWAY AREA = 2,689 SQ. FT.
DRAINAGE AREA = 682 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 5

2 YEAR FREQUENCY
Q_2 = 4,270 C.F.S.
$VEL._2$ = 3.2 F.P.S.
$HW._2$ = EL. 615.54

PRELIMINARY PLAN

STRUCTURE DESIGN CONTACTS:
ADAM SWIERCZEK (608) 267-4593
AARON BONK (608) 261-0261

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:
CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

72W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

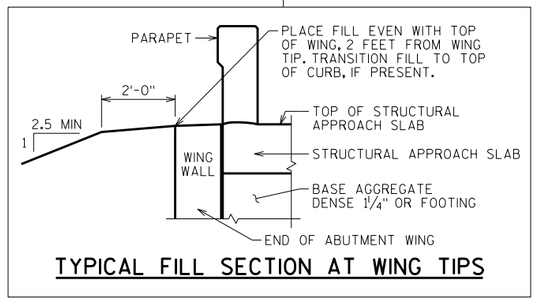
ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

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TYPICAL FILL SECTION AT WING TIPS

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1018

IH-43 SB OVER MILWAUKEE RIVER & HAMPTON AVE.

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
ABS	SEW	ABS	SEW

GENERAL PLAN

SHEET 1 OF 3

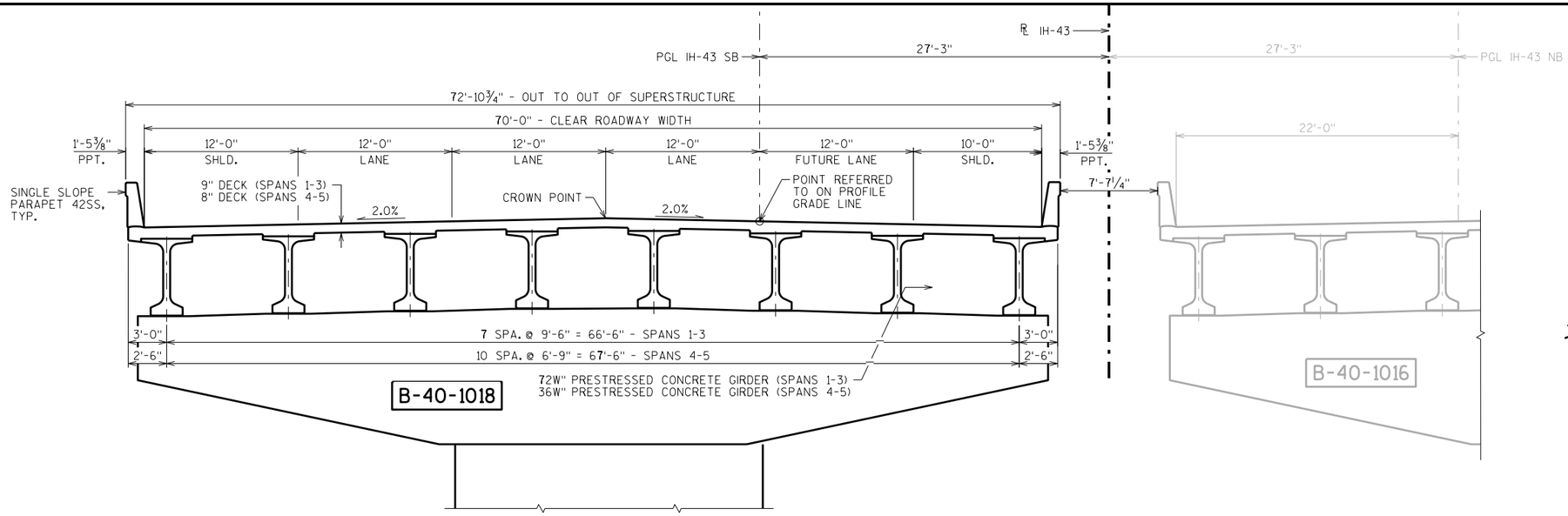
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I.D. 1228-22-01BA DATE: NOV. 2019

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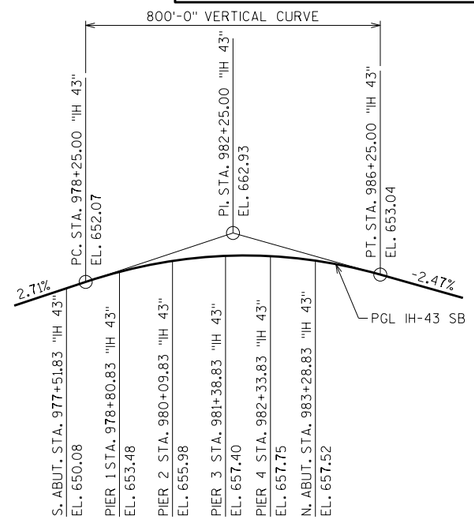
STATE PROJECT NUMBER

1228-22-71

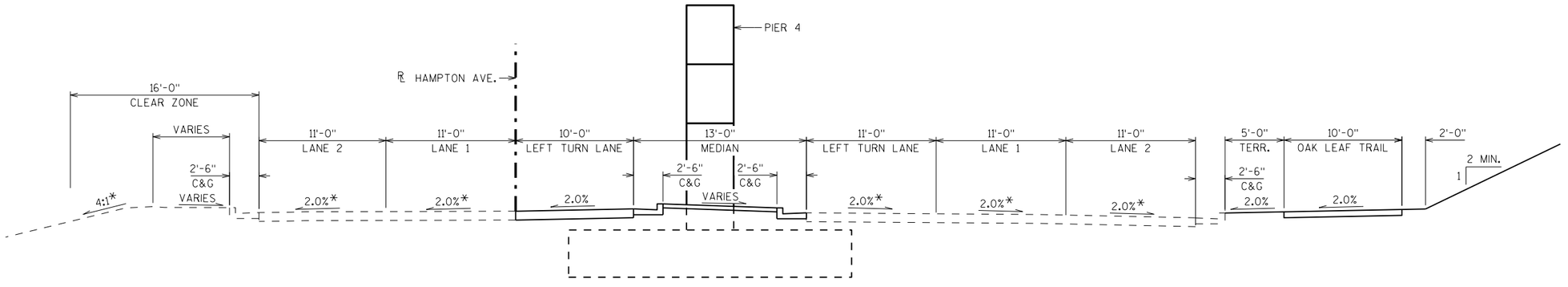


CROSS SECTION THRU ROADWAY

LOOKING NORTH



PROFILE GRADE LINE - IH-43 SB



CROSS SECTION THRU UNDERPASS

LOOKING WEST

* DENOTES EXISTING SLOPE. MAY VARY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1018

DRAWN BY ABS | PLANS CK'D. SEW

CROSS SECTION | SHEET 2

PRE_332

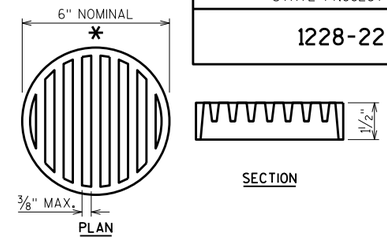
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8

8

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. STRUCT. APP. SLAB	SOUTH ABUT.	PIER 1	PIER 2	PIER 3	PIER 4	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 980+00 "IH 43"	LS	---	---	---	---	---	---	---	---	---	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1018	LS	---	---	---	---	---	---	---	---	---	1
206.5000	COFFERDAMS B-40-1018	LS	---	---	---	---	---	---	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	---	---	---	---	---	---	---	---	0
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	---	---	---	---	---	---	---	---	---	0
501.1000.S	ICE HOT WEATHER CONCRETING	LB	---	---	---	---	---	---	---	---	---	0
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	---	---	---	---	---	---	---	0
502.1100	CONCRETE MASONRY SEAL	CY	---	---	---	---	---	---	---	---	---	0
502.3101	EXPANSION DEVICE B-40-1018	LF	---	---	---	---	---	---	---	---	---	0
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	---	---	---	---	---	---	0
502.3210	PIGMENTED SURFACE SEALER	SY	---	---	---	---	---	---	---	---	---	0
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	---	---	---	---	---	---	---	---	---	0
503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	---	---	---	---	---	---	---	---	---	0
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	---	---	---	---	---	---	---	---	---	0
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	---	---	---	---	---	---	---	---	---	0
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	---	---	---	---	---	---	---	---	---	0
506.4000	STEEL DIAPHRAGMS B-40-1018	EACH	---	---	---	---	---	---	---	---	---	0
511.1200	TEMPORARY SHORING B-40-1018	SF	---	---	---	---	---	---	---	---	---	0
514.0450	FLOOR DRAINS TYPE WF	EACH	---	---	---	---	---	---	---	---	---	0
514.2625	DOWNSPOUT 6-INCH	LF	---	---	---	---	---	---	---	---	---	0
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	---	---	---	---	---	---	---	---	0
550.XXXX	PILING STEEL XXXXXXXXXXXXXXXX	LF	---	---	---	---	---	---	---	---	---	0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	---	---	---	---	---	---	---	---	0
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	---	---	---	---	---	---	---	---	---	0
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	---	---	---	---	---	---	---	---	---	0
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	---	---	---	---	---	---	---	---	---	0
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	---	---	---	---	---	---	---	---	---	0
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	---	---	---	---	---	---	---	---	---	0
SPV.0035	HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES	CY	---	---	---	---	---	---	---	---	---	0
SPV.0165	LONGITUDINAL GROOVING BRIDGE DECK	SF	---	---	---	---	---	---	---	---	---	0
SPV.0180	SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	---	---	---	---	---	---	---	---	---	0
	NON-BID ITEMS											
	BRIDGE SEAT PROTECTION	LS	---	---	---	---	---	---	---	---	---	1
	FILLER	SIZE	---	---	---	---	---	---	---	---	---	½", ¾", 1½"

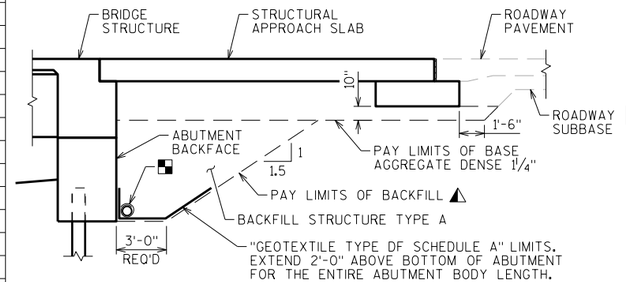


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

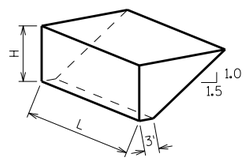
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▪ PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE BID ITEM "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 980+00 "IH 43" " INCLUDES ALL REMAINING REMOVAL OF EXISTING STRUCTURE B-40-66 REQUIRED TO CONSTRUCT B-40-1018.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-1018" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS, HP 12X53 STEEL PILING MAY BE USED IN LIEU OF HP 10X42 STEEL PILING. PAYMENT SHALL BE BASED ON BID PRICE FOR HP 10X42 STEEL PILING.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF PIER 3 BELOW THE EXPANSION DEVICE.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH OF _____ IN.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT PIERS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

STATE PROJECT NUMBER
1228-22-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1018

DRAWN BY ABS | PLANS CK'D. SEW

QUANTITIES & NOTES

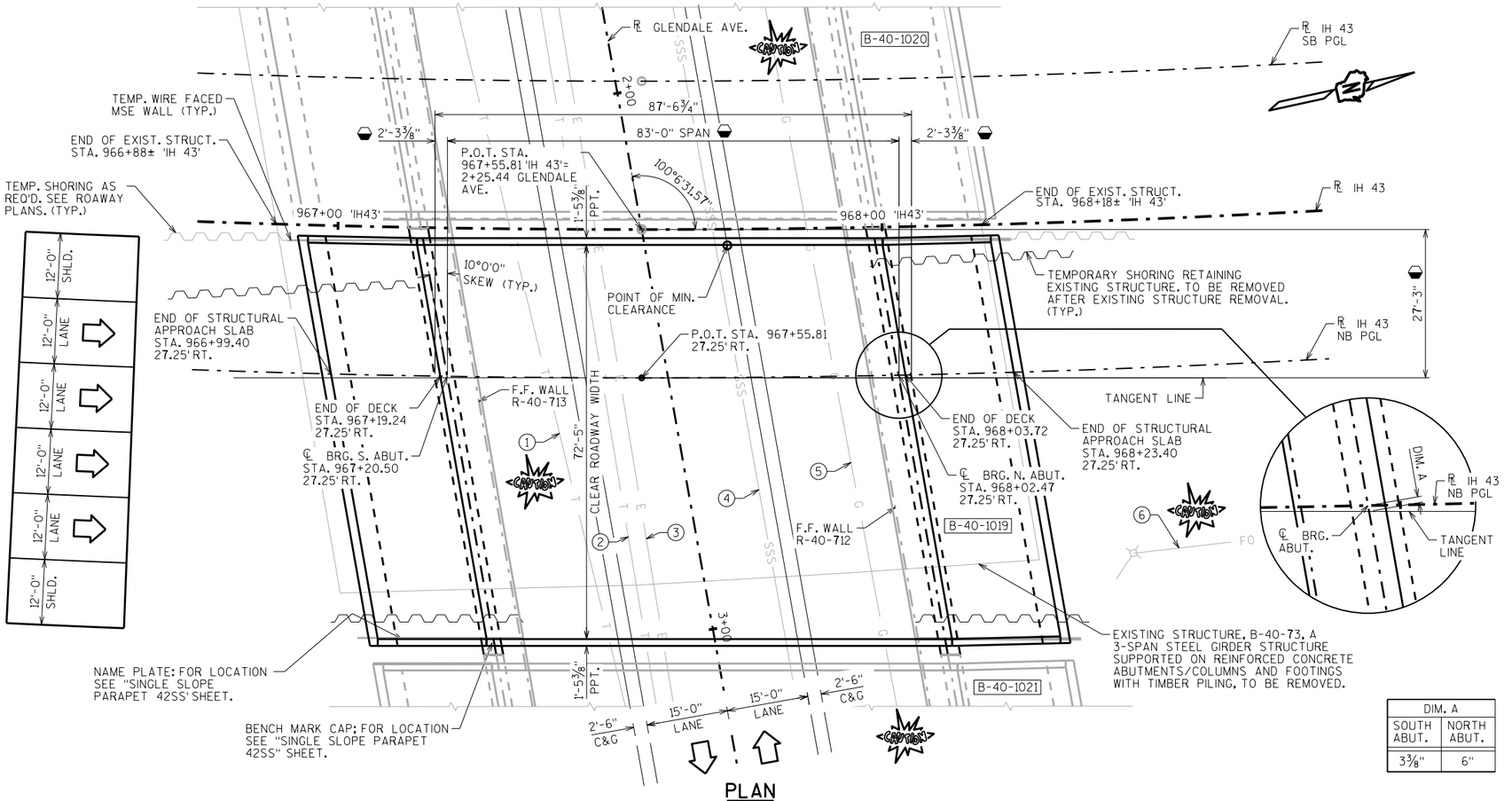
SHEET 3

PRE_333

SCALE = 5.00

8

8



PLAN

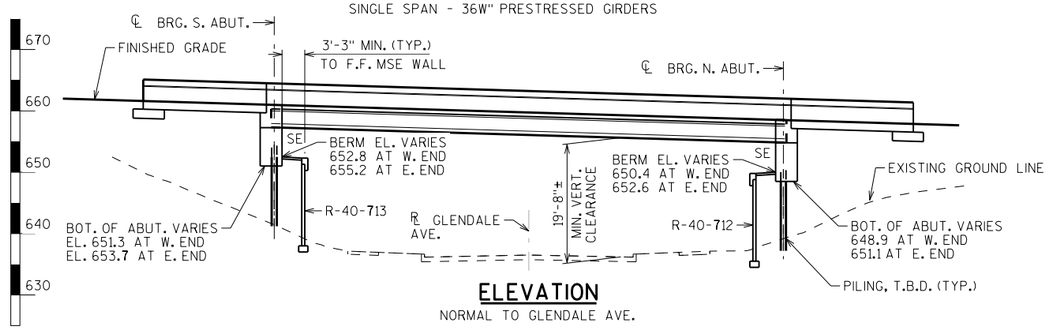
SINGLE SPAN - 36W" PRESTRESSED GIRDERS

DIM. A	
SOUTH ABUT.	NORTH ABUT.
3⅜"	6"

MEASURED ALONG TANGENT LINE

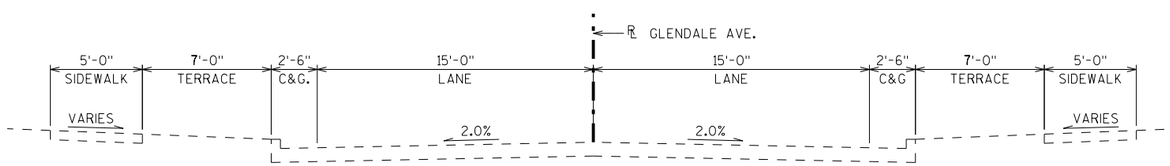
UTILITY NOTES

1. EXISTING TELEPHONE UTILITY TO ------
2. EXISTING TELEPHONE UTILITY TO ------
3. EXISTING ELECTRIC UTILITY TO ------
4. EXISTING SANITARY SEWER SYSTEM TO -----
5. EXISTING GAS UTILITY TO ------
6. EXISTING FIBEROPTIC UTILITY TO ------



ELEVATION

NORMAL TO GLENDALE AVE.



EXISTING SECTION THRU GLENDALE AVE.

LOOKING WEST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

PIER TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

IH 43
ADT = 125,400 (2021)
R.D.S. = 50 M.P.H.

GLENDALE AVE.
ADT = 2,300 (2014)
R.D.S. = 25 M.P.H.

CURVE DATA

IH 43
P.I. = 965+10.79 'IH 43'
△ = 30°04'58"
D = 2°32'47"
T = 604.63
L = 1181.35'
R = 2250.00'
S.E. = 5.2%
P.C. = 959+06.16 'IH 43'
P.T. = 970+87.52 'IH 43'

PRELIMINARY PLAN

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. STAGING DETAILS 1
4. STAGING DETAILS 2

STRUCTURE DESIGN CONTACTS:
DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

STATE PROJECT NUMBER
1228-22-71

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1019
IH 43 NB OVER GLENDALE AVE

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	MWB	DLM	MWB

GENERAL PLAN

SHEET 1 OF 4

PRE_334

I.D. 1228-22-01F DATE: NOV. 2019

SCALE = 12.00

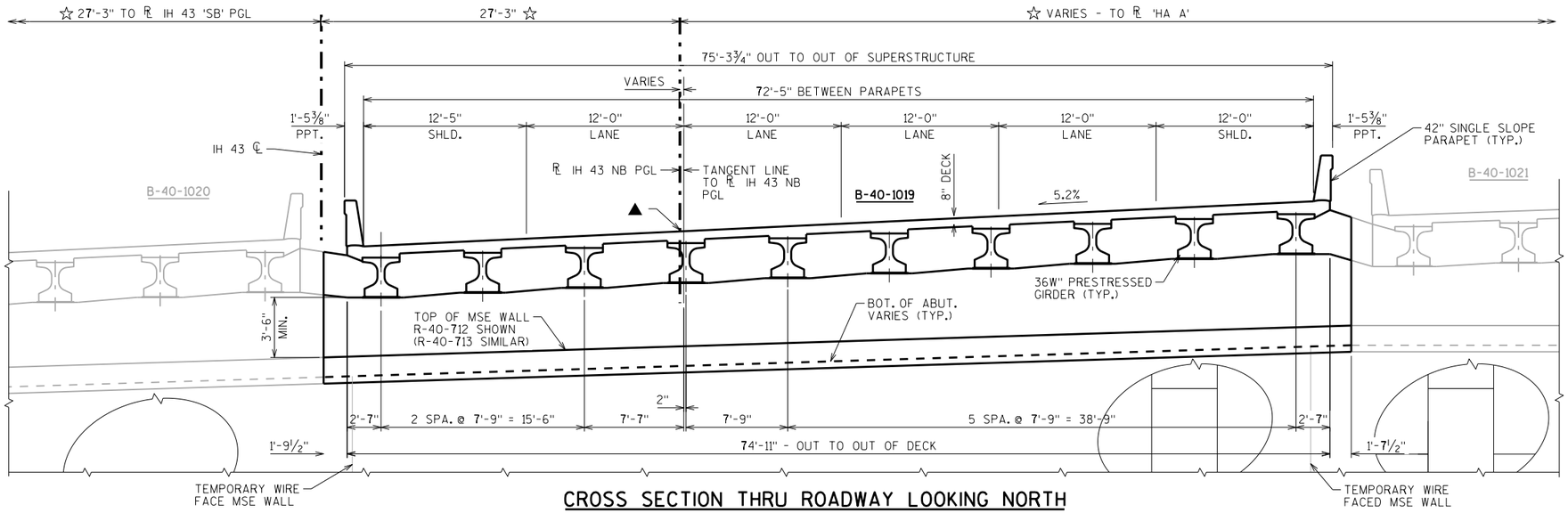
PRELIMINARY

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8

STATE PROJECT NUMBER

1228-22-71

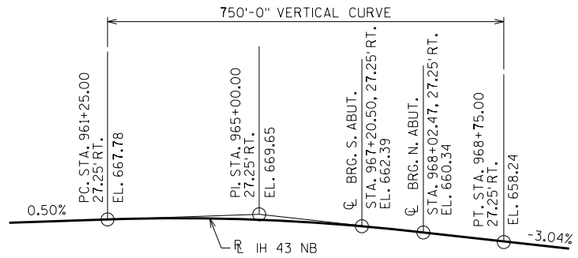


CROSS SECTION THRU ROADWAY LOOKING NORTH

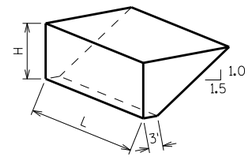
PRELIMINARY PLAN



PROFILE GRADE LINE - GLENDALE AVE.

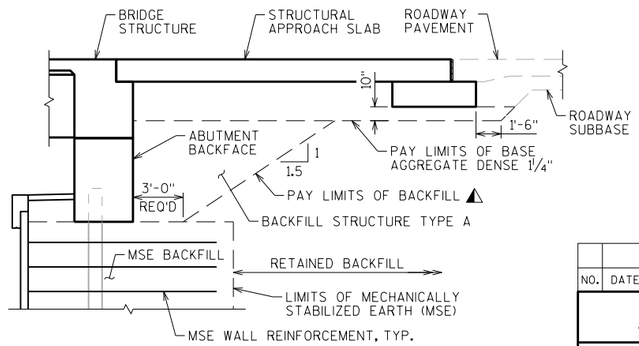


PROFILE GRADE LINE - IH 43



ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES OR B-40-1019" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF B-40-1019 WITH B-40-1020, B-40-1021, R-40-712, AND R-40-713.

THE EXISTING STRUCTURE B-40-73, A 3-SPAN STEEL GIRDER STRUCTURE, TO BE PARTIALLY REMOVED DURING CONSTRUCTION OF B-40-1020. THE REMAINDER OF THE STRUCTURE WILL BE REMOVED PRIOR TO CONSTRUCTION OF B-40-1019. SEE STAGING PLANS FOR MORE INFORMATION.

REMOVAL OF EXISTING STRUCTURE IS PAID FOR UNDER 'REMOVING OLD STRUCTURE' BID ITEM INCLUDED IN B-40-1020 PLANS.

TEMPORARY SHORING USED FOR RETAINING EXISTING STRUCTURE B-40-73 IS PAID FOR IN B-40-1020 PLANS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	S. STRUCT. APP. SLAB	SOUTH ABUT.	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1019	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON						
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON						
501.1000.S	ICE HOT WEATHER CONCRETING	LB						
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3200	PROTECTIVE SURFACE TREATMENT	SY						
502.3210	PIGMENTED SURFACE SEALER	SY						
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF						
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB						
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB						
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						
506.4000	STEEL DIAPHRAGMS B-40-1019	EACH						
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY						
550.XXXX	PILING STEEL HP -INCH X LB	LF						
604.0400	SLOPE PAVING CONCRETE	SY						
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"

▲ POINT REFERRED TO ON PROFILE GRADE LINE

☆ MEASURED RADIALLY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1019

DRAWN BY: DLM | PLANS CK'D. MWB

CROSS SECTION & QUANTITIES

SHEET 2

PRE_335

PRELIMINARY

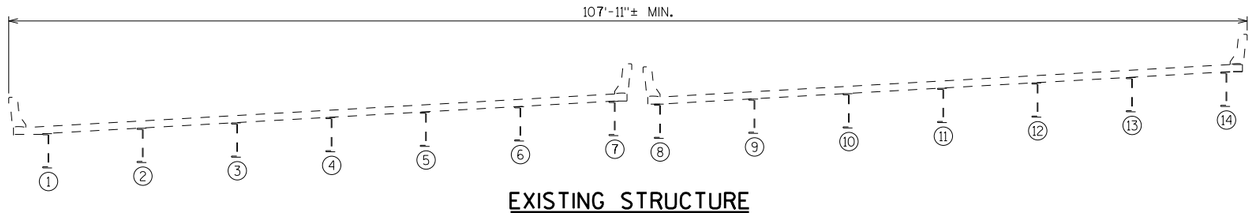
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STATE PROJECT NUMBER

1228-22-71

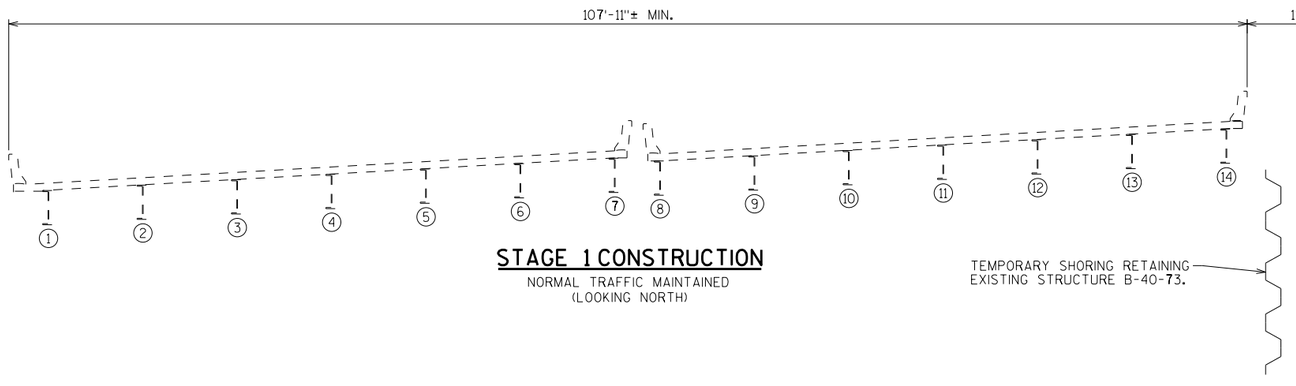


EXISTING STRUCTURE

(LOOKING NORTH)

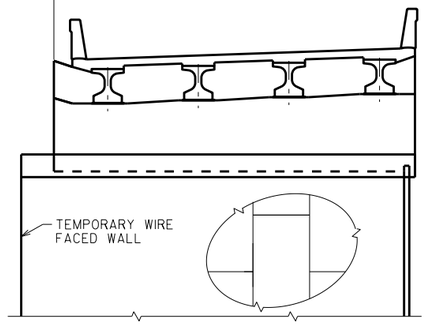
◯ INDICATES GIRDER NO.

NOTE: SEE ROADWAY PLANS FOR ADDITIONAL STAGING DETAILS

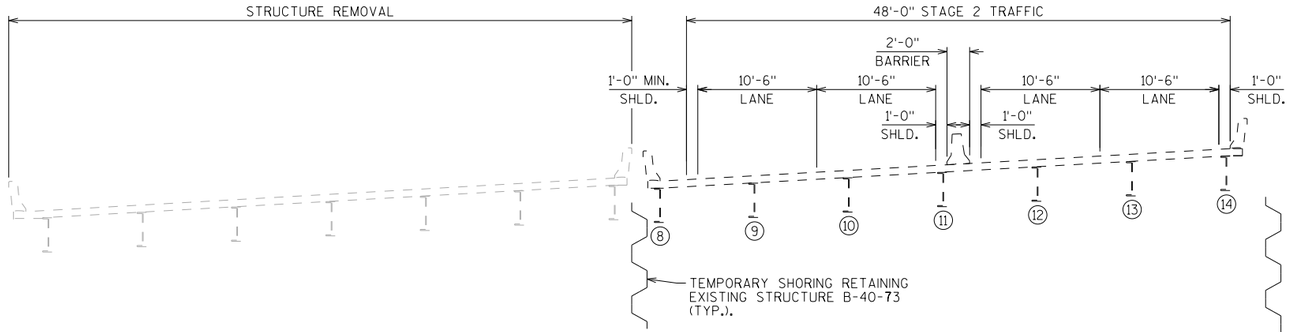


STAGE 1 CONSTRUCTION

NORMAL TRAFFIC MAINTAINED
(LOOKING NORTH)

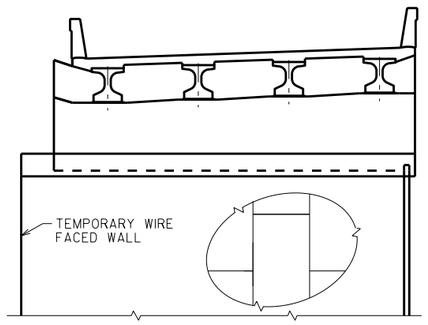


NEW STRUCTURE B-40-1021



STAGE 2 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1019

DRAWN BY DLM | PLANS CK'D. MWB

STAGING DETAILS 1

SHEET 3

PRE_336

PRELIMINARY

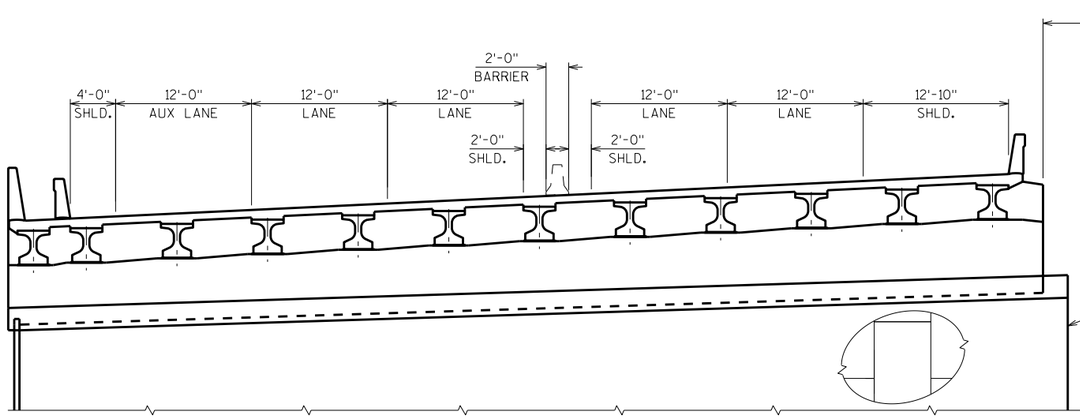
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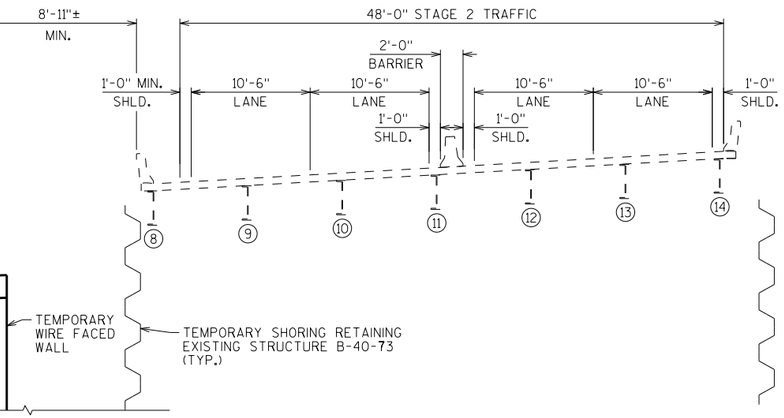
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STATE PROJECT NUMBER

1228-22-71

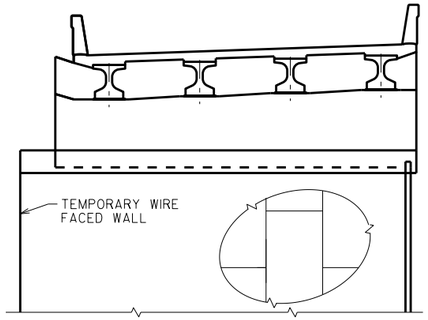


NEW STRUCTURE B-40-1020

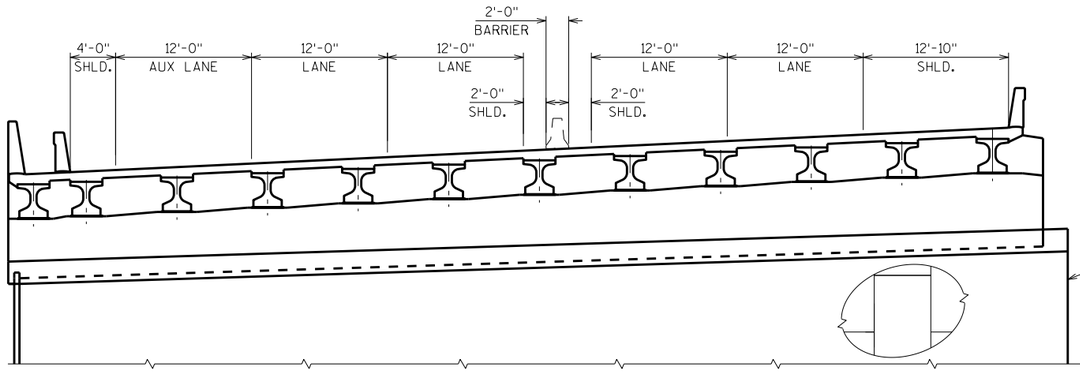


STAGE 2 CONSTRUCTION

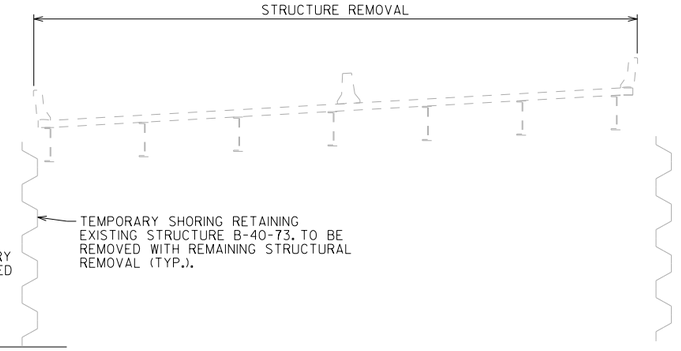
(LOOKING NORTH)



NEW STRUCTURE B-40-1021

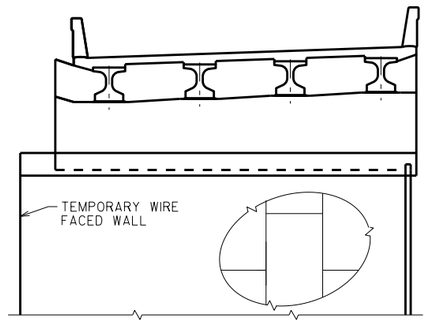


NEW STRUCTURE B-40-1020

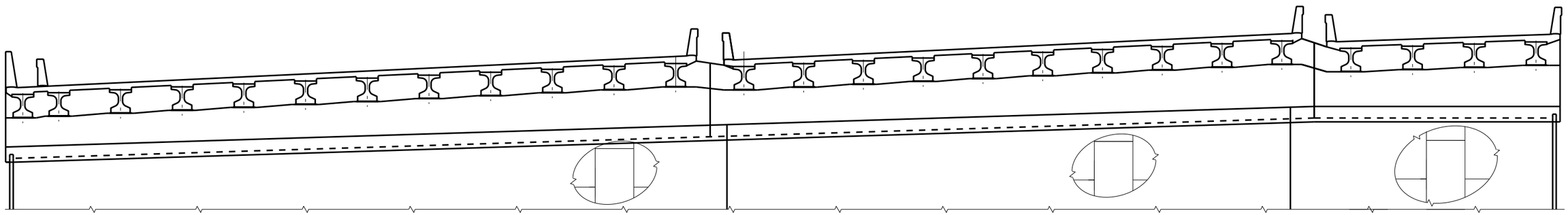


STAGE 3 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021



NEW STRUCTURE B-40-1020

NEW STRUCTURE B-40-1019

NEW STRUCTURE B-40-1021

STAGE 3 CONSTRUCTION

(LOOKING NORTH)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1019

DRAWN BY DLM | PLANS CK'D. MWB

STAGING DETAILS 2

SHEET 4

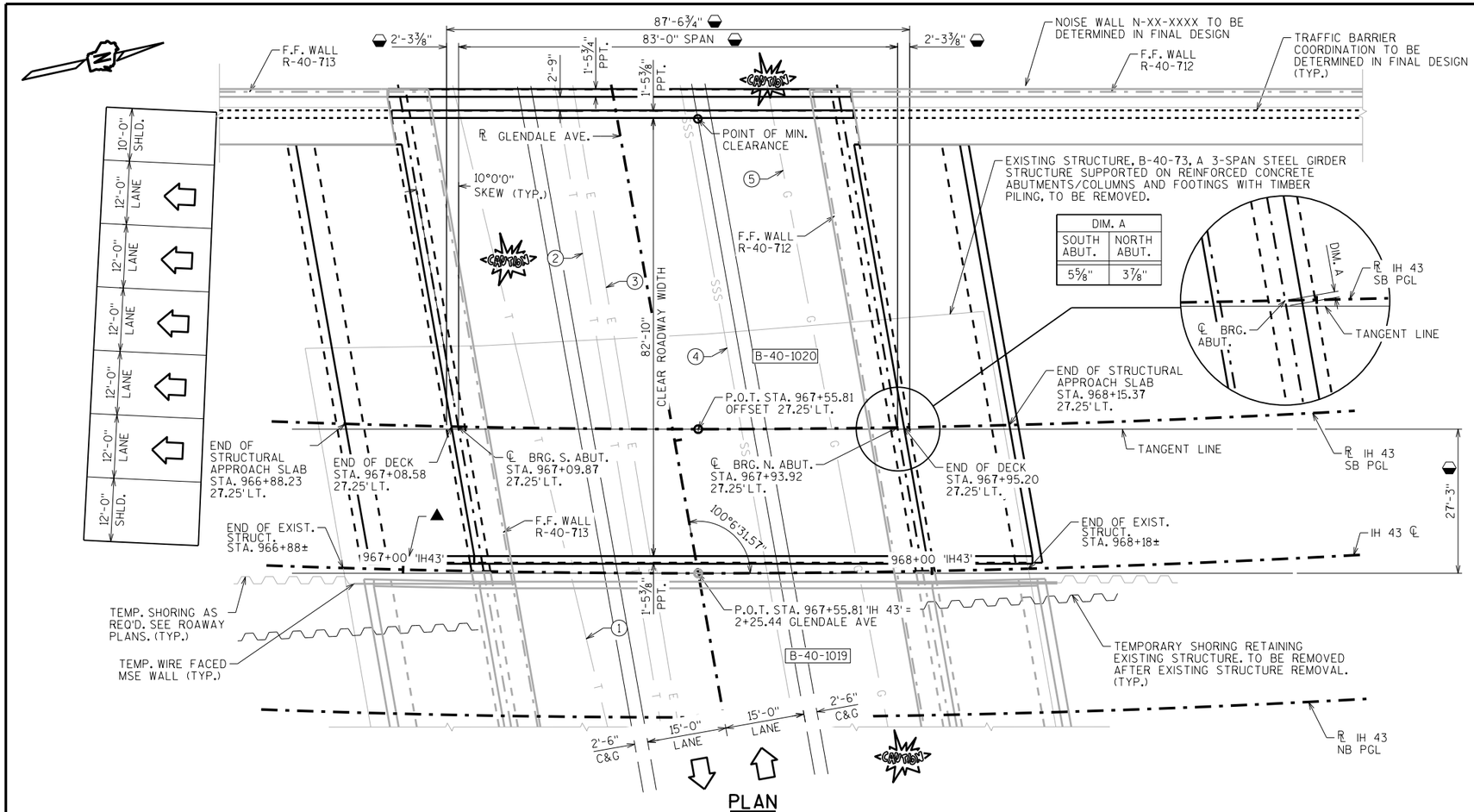
PRE_337

PRELIMINARY

SCALE = 6.50

STATE PROJECT NUMBER

1228-22-71



PLAN

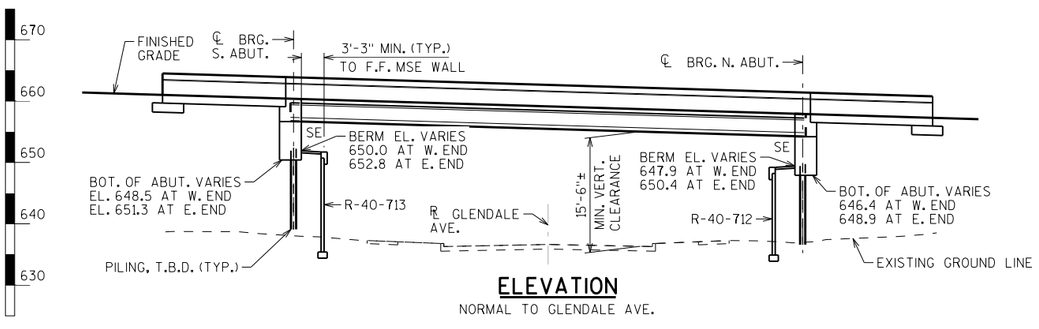
SINGLE SPAN - 36W" PRESTRESSED GIRDERS

▬ MEASURED ALONG TANGENT LINE

▲ NAME PLATE & BENCH MARK CAP. FOR LOCATIONS, SEE "SINGLE SLOPE 42SS PARAPET" SHEET

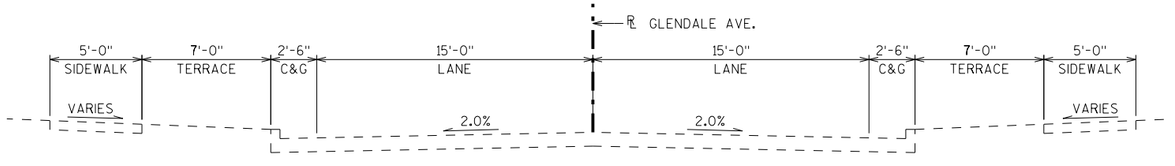
UTILITY NOTES

1. EXISTING TELEPHONE UTILITY TO _____
2. EXISTING TELEPHONE UTILITY TO _____
3. EXISTING ELECTRIC UTILITY TO _____
4. EXISTING SANITARY SEWER SYSTEM TO _____
5. EXISTING GAS UTILITY TO _____



ELEVATION

NORMAL TO GLENDALE AVE.



EXISTING SECTION THRU GLENDALE AVE.

LOOKING WEST

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

PIER TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

IH 43
ADT = 125,400 (2021)
R.D.S. = 50 M.P.H.

GLENDALE AVE.
ADT = 2,300 (2014)
R.D.S. = 25 M.P.H.

CURVE DATA

IH 43
P.I. = 965+10.79 'IH 43'
△ = 30°04'58"
D = 2°32'47"
T = 604.63
L = 1181.35'
R = 2250.00'
S.E. = 5.2%
P.C. = 959+06.16 'IH 43'
P.T. = 970+87.52 'IH 43'

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. STAGING DETAILS 1
4. STAGING DETAILS 2

PRELIMINARY PLAN

STRUCTURE DESIGN CONTACTS:
DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1020

IH 43 SB OVER GLENDALE AVE

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	MWB	DLM	MWB

GENERAL PLAN

SHEET 1 OF 4

PRE_338

I.D. 1228-22-01G DATE: NOV. 2019

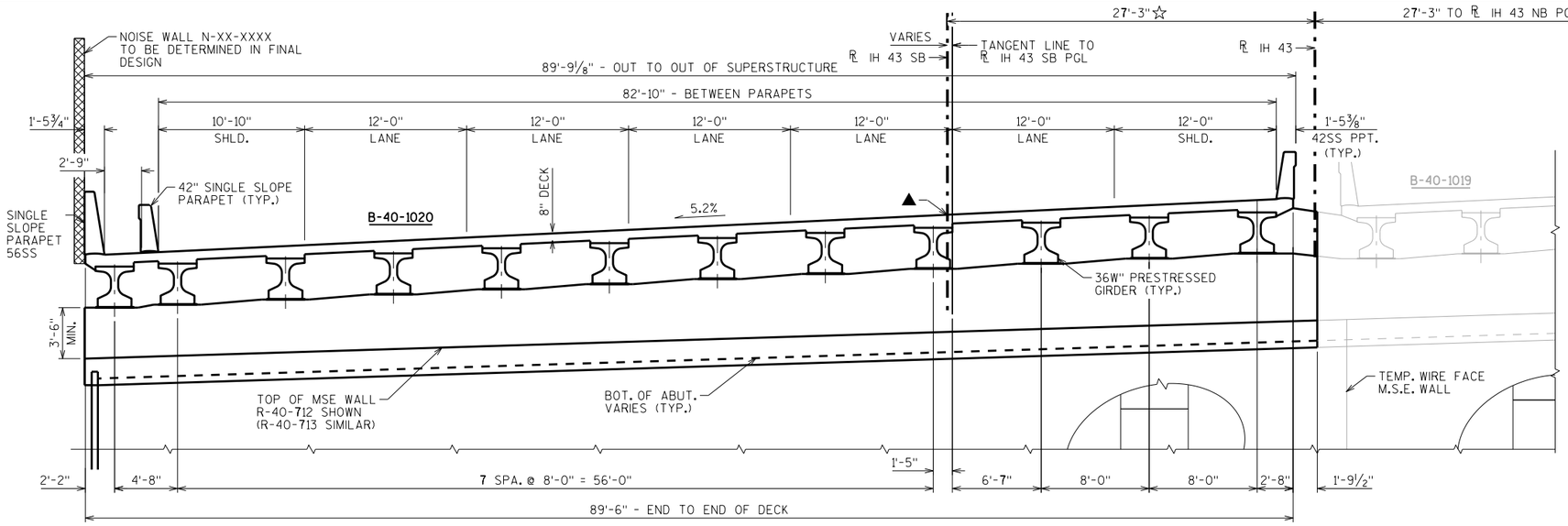
SCALE = 12.00

PRELIMINARY

8

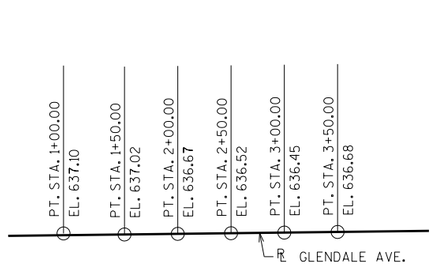
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STATE PROJECT NUMBER
1228-22-71

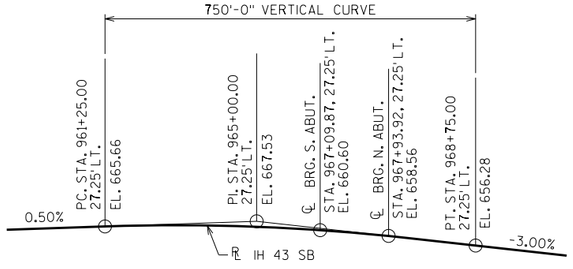


CROSS SECTION THRU ROADWAY LOOKING NORTH

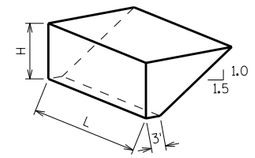
PRELIMINARY PLAN



PROFILE GRADE LINE - GLENDALE AVE.

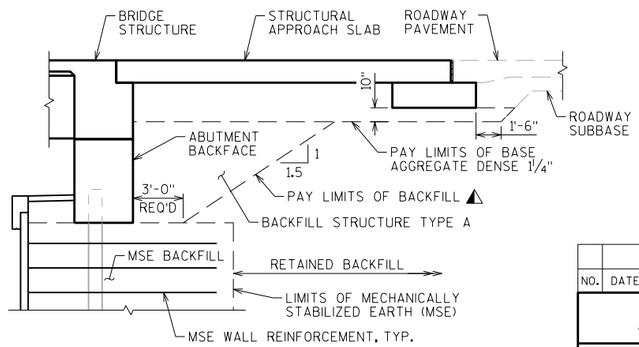


PROFILE GRADE LINE - IH 43



ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL SECTION THRU ABUTMENT

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▲ POINT REFERRED TO ON PROFILE GRADE LINE

☆ MEASURED RADIALLY

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES OR B-40-1020" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF B-40-1019 WITH B-40-1020, B-40-1021, R-40-712, AND R-40-713.

THE EXISTING STRUCTURE B-40-73, AN EXISTING 3-SPAN STEEL GIRDER STRUCTURE, TO BE PARTIALLY REMOVED DURING CONSTRUCTION OF B-40-1020. THE REMAINDER OF THE STRUCTURE WILL BE REMOVED PRIOR TO CONSTRUCTION OF B-40-1019. SEE STAGING PLANS FOR MORE INFORMATION.

TEMPORARY SHORING USED FOR RETAINING EXISTING STRUCTURE B-40-73 IS PAID FOR UNDER 'TEMPORARY SHORING' BID ITEM.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	S. STRUCT. APP. SLAB	SOUTH ABUT.	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 966+88	LS	———	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1020	LS						
210.1500	BACKFILL STRUCTURE TYPE A	TON						
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON						
501.1000.S	ICE HOT WEATHER CONCRETING	LB						
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3200	PROTECTIVE SURFACE TREATMENT	SY						
502.3210	PIGMENTED SURFACE SEALER	SY						
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF						
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB						
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB						
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						
506.4000	STEEL DIAPHRAGMS B-40-1020	EACH						
511.1200	TEMPORARY SHORING B-40-1020	SF						
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY						
550.XXXX	PILING STEEL HP -INCH X LB	LF						
604.0400	SLOPE PAVING CONCRETE	SY						
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1020

DRAWN BY: DLM | PLANS CK'D. MWB

CROSS SECTION & QUANTITIES

SHEET 2

PRE_339

PRELIMINARY

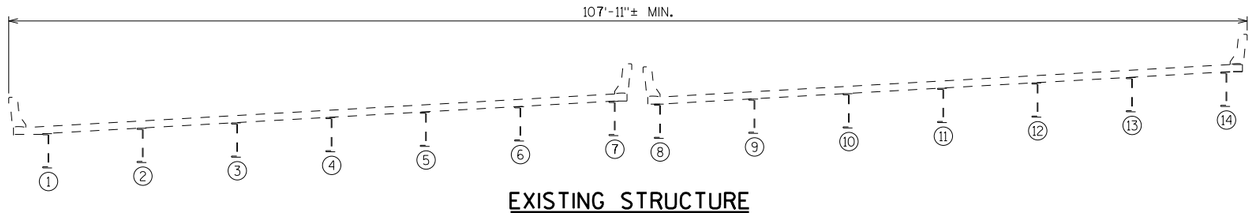
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8

STATE PROJECT NUMBER

1228-22-71

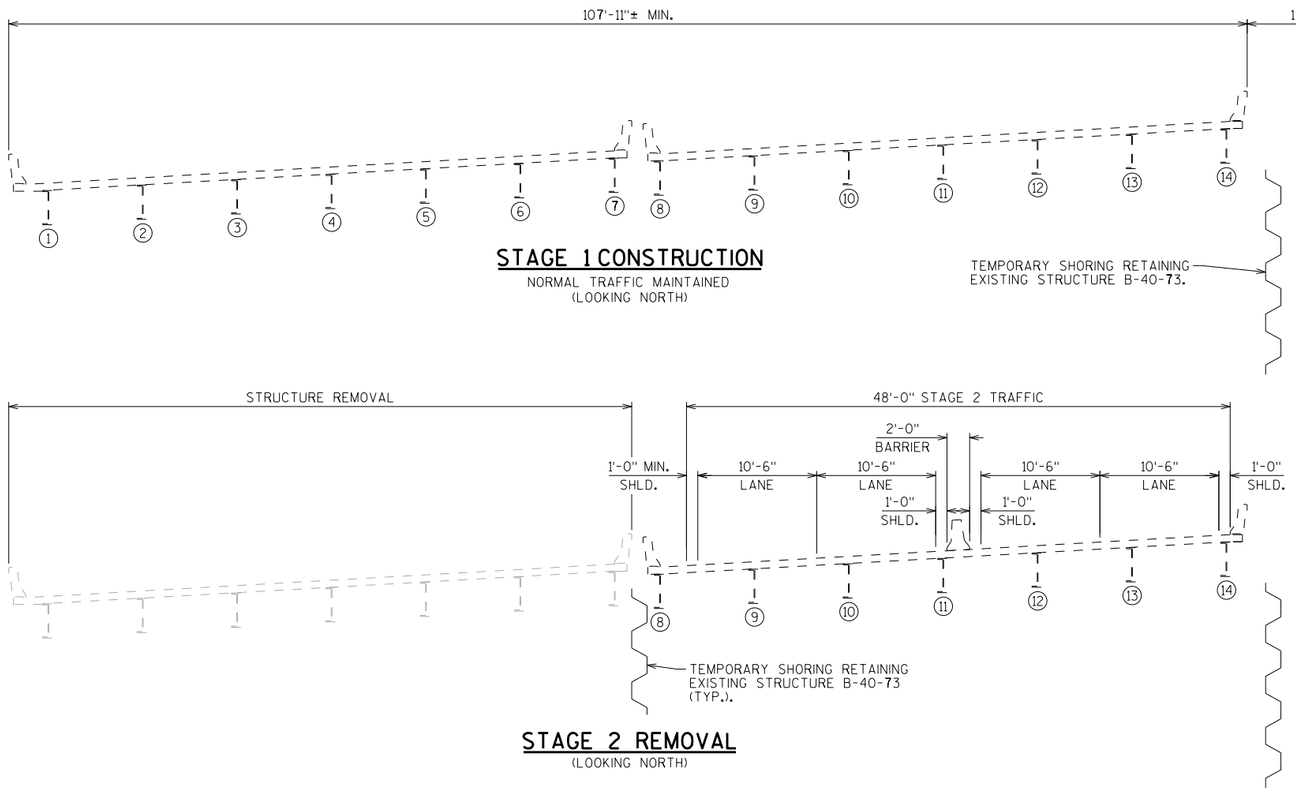


EXISTING STRUCTURE

(LOOKING NORTH)

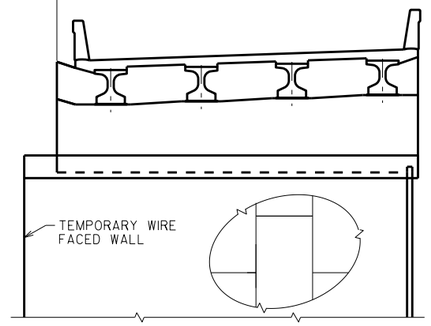
◯ INDICATES GIRDER NO.

NOTE: SEE ROADWAY PLANS FOR ADDITIONAL STAGING DETAILS



STAGE 1 CONSTRUCTION

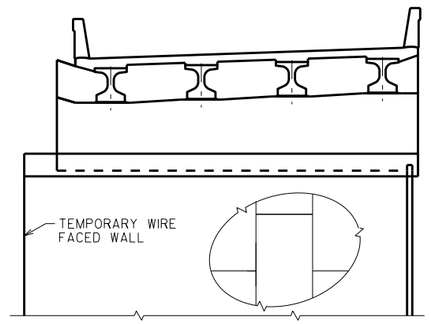
NORMAL TRAFFIC MAINTAINED
(LOOKING NORTH)



NEW STRUCTURE B-40-1021

STAGE 2 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1020

DRAWN BY DLM | PLANS CK'D. MWB

STAGING DETAILS 1

SHEET 3

PRE_340

PRELIMINARY

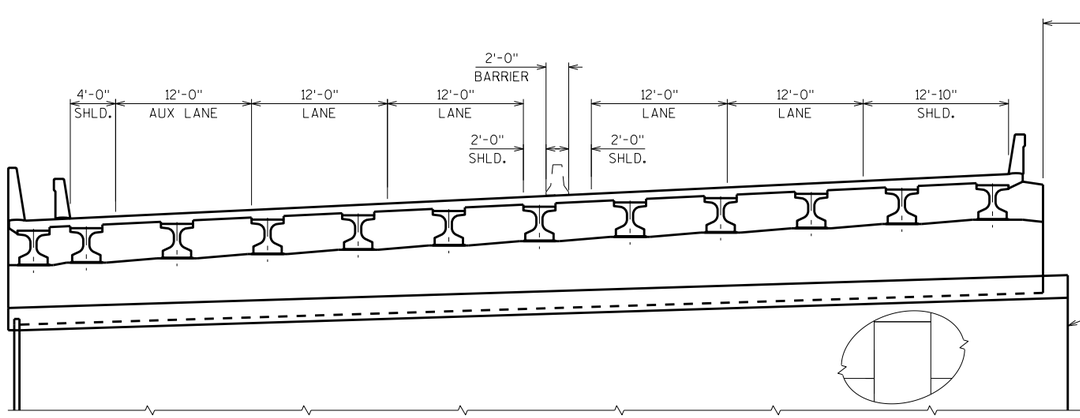
SCALE = 6.50

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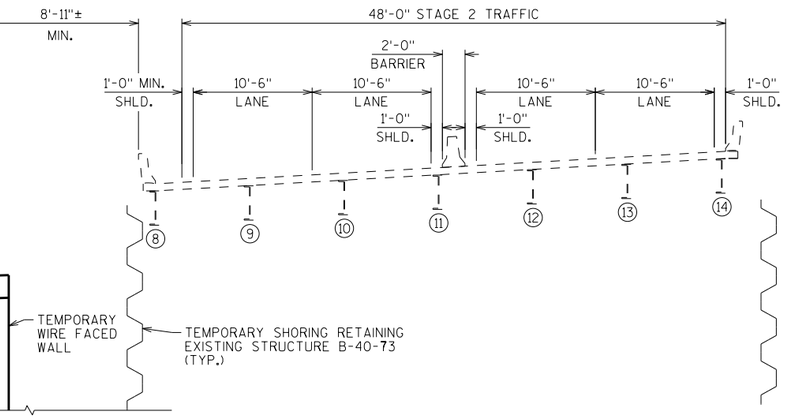
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STATE PROJECT NUMBER

1228-22-71

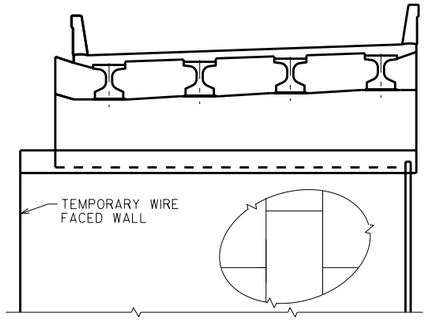


NEW STRUCTURE B-40-1020

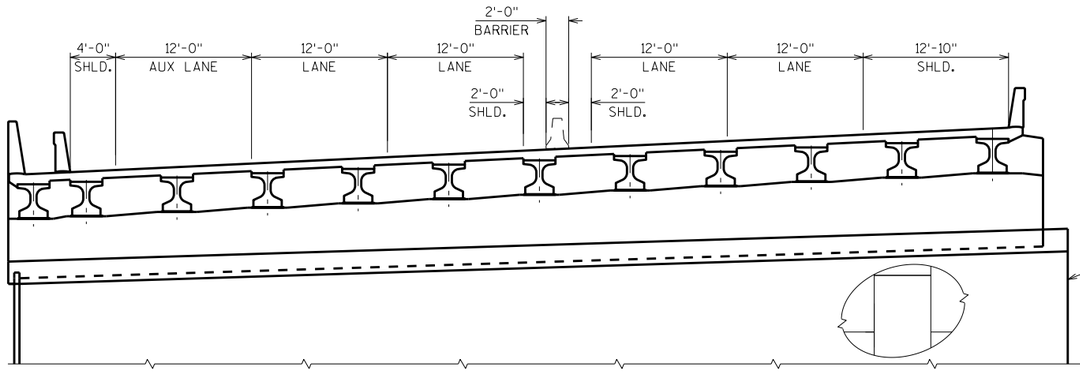


STAGE 2 CONSTRUCTION

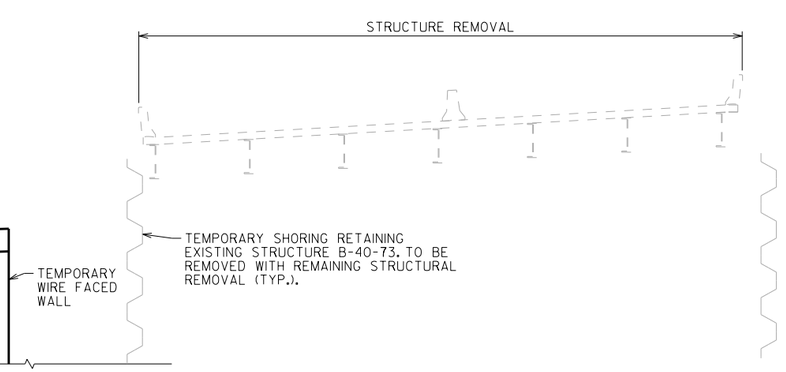
(LOOKING NORTH)



NEW STRUCTURE B-40-1021

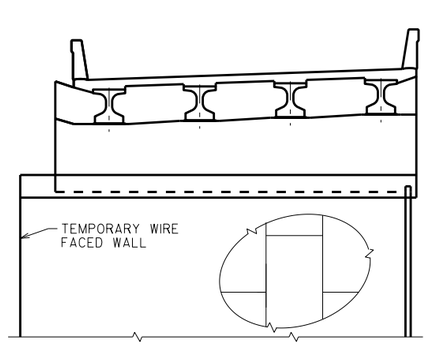


NEW STRUCTURE B-40-1020

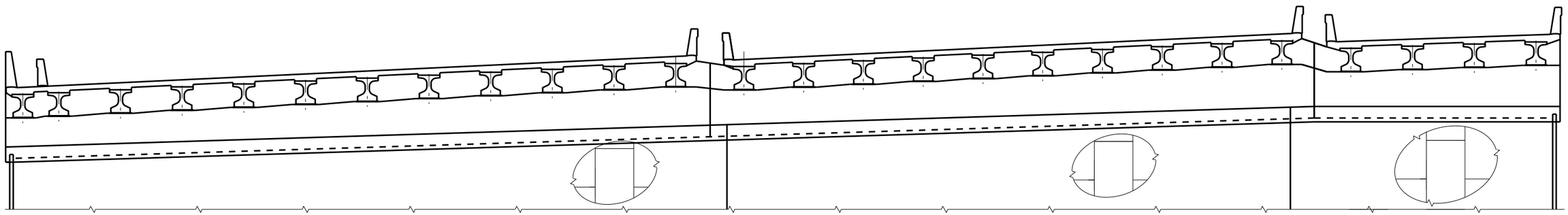


STAGE 3 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021



NEW STRUCTURE B-40-1020

NEW STRUCTURE B-40-1019

NEW STRUCTURE B-40-1021

STAGE 3 CONSTRUCTION

(LOOKING NORTH)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1020

DRAWN BY DLM | PLANS CK'D. MWB

STAGING DETAILS 2

SHEET 4

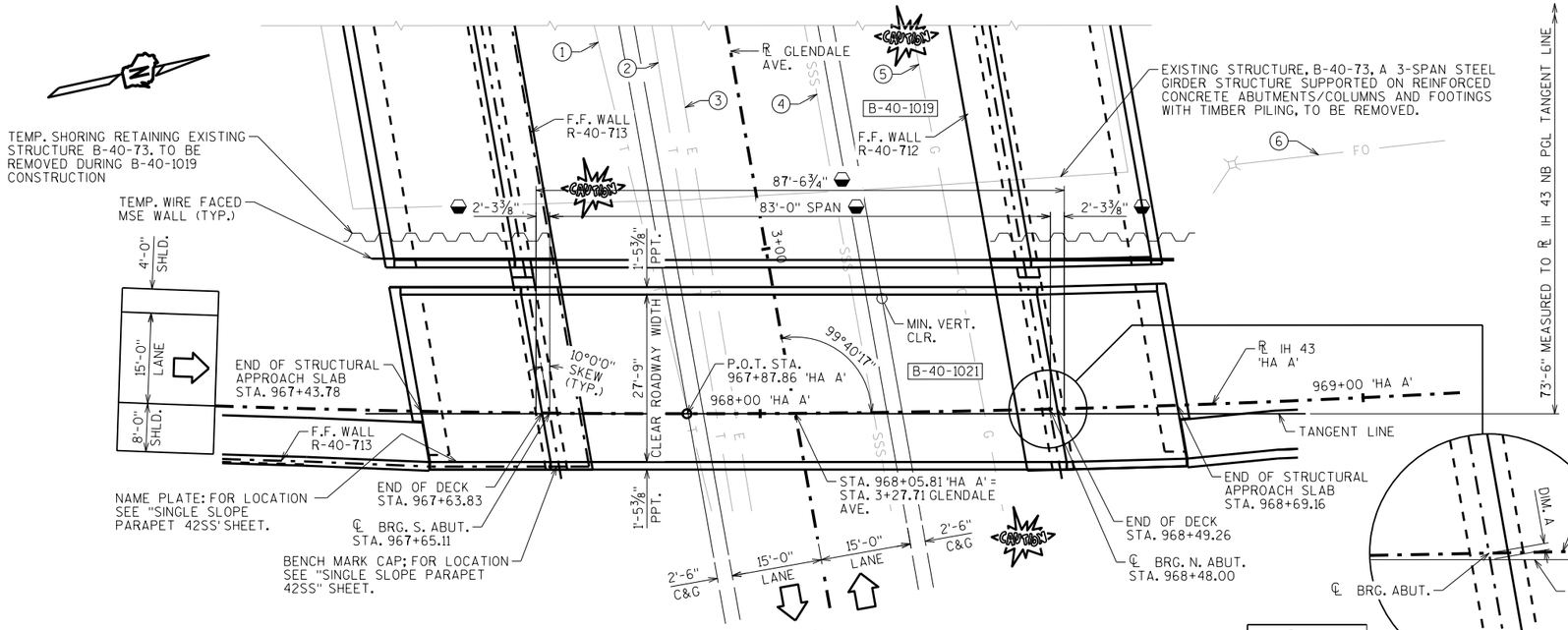
PRE_341

PRELIMINARY

SCALE = 6.50

STATE PROJECT NUMBER

1228-22-71



PLAN

SINGLE SPAN - 36W" PRESTRESSED GIRDERS

DIM. A	
SOUTH ABUT.	NORTH ABUT.
1⅜"	9⅜"

MEASURED ALONG TANGENT LINE

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
GRADE 60 — fy = 60,000 P.S.I.
STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

PIER TO BE SUPPORTED ON PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

IH 43
ADT = 125,400 (2021)
R.D.S. = 50 M.P.H.

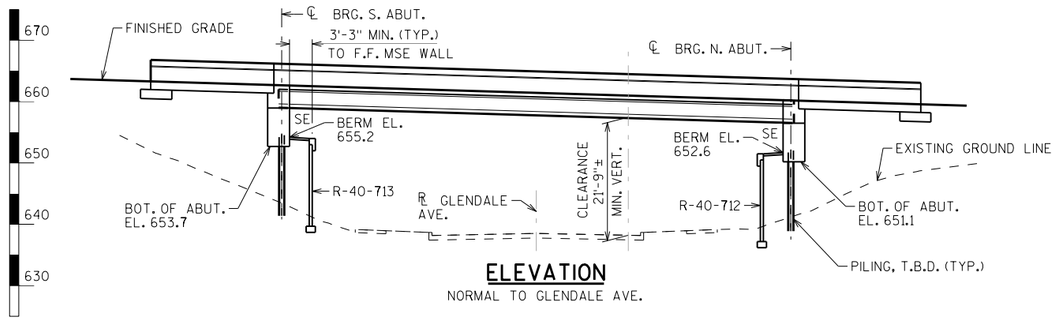
GLENDALE AVE.
ADT = 2,300 (2014)
R.D.S. = 25 M.P.H.

CURVE DATA

IH 43 'HA A'
P.I. = 968+39.17 'HA A'
△ = 7°52'39"
D = 2°26'14"
T = 161.9'
L = 323.21'
R = 2350.75'
S.E. = 4.0%
P.C. = 966+77.31 'HA A'
P.T. = 970+00.51 'HA A'

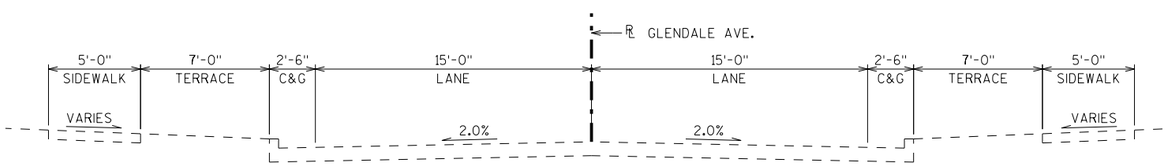
UTILITY NOTES

1. EXISTING TELEPHONE UTILITY TO ------
2. EXISTING TELEPHONE UTILITY TO ------
3. EXISTING ELECTRIC UTILITY TO ------
4. EXISTING SANITARY SEWER SYSTEM TO -----
5. EXISTING GAS UTILITY TO ------
6. EXISTING FIBEROPTIC UTILITY TO ------



ELEVATION

NORMAL TO GLENDALE AVE.



EXISTING SECTION THRU GLENDALE AVE.

LOOKING WEST

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. STAGING DETAILS 1
4. STAGING DETAILS 2

PRELIMINARY PLAN

STRUCTURE DESIGN CONTACTS:

DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-1021

IH 43 NB PORT WASHINGTON OFF RAMP

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	MWB	DLM	MWB

GENERAL PLAN

SHEET 1 OF 4

PRE_342

I.D. 1228-22-01H DATE: NOV. 2019

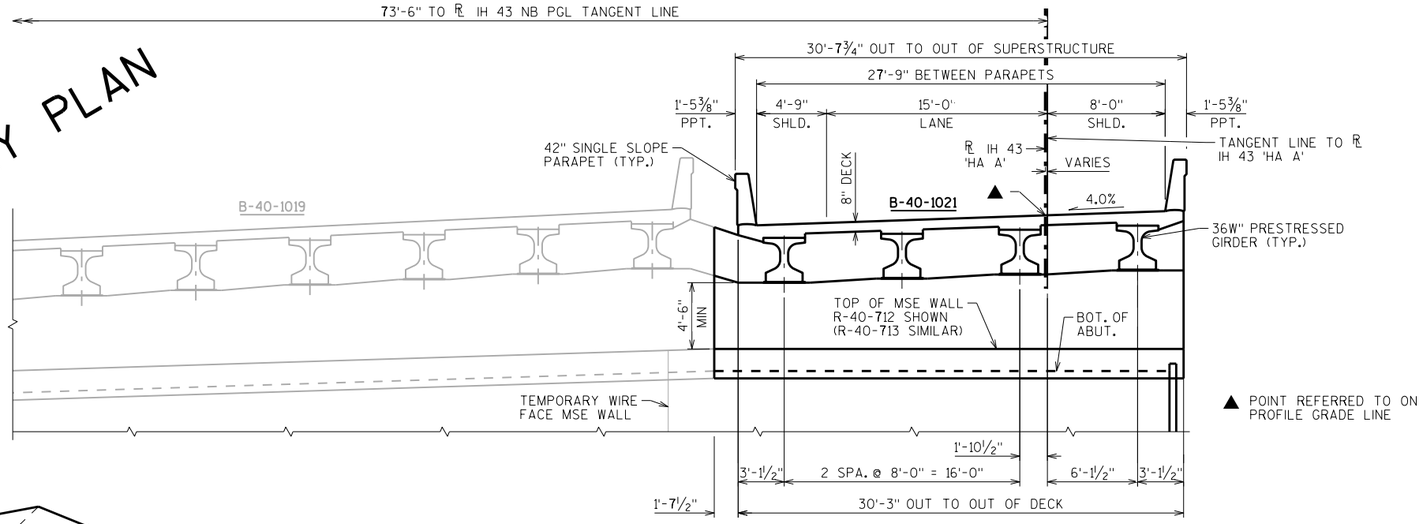
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PRELIMINARY

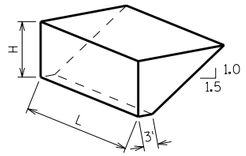
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8

PRELIMINARY PLAN

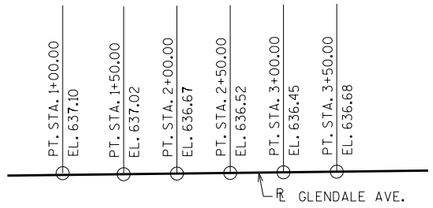


CROSS SECTION THRU ROADWAY LOOKING NORTH

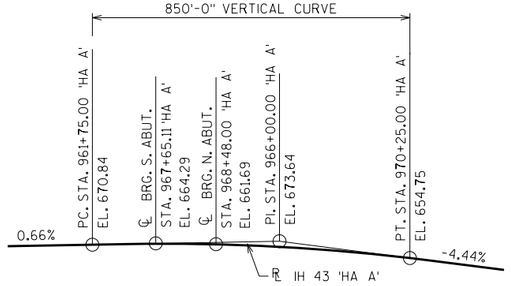


ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



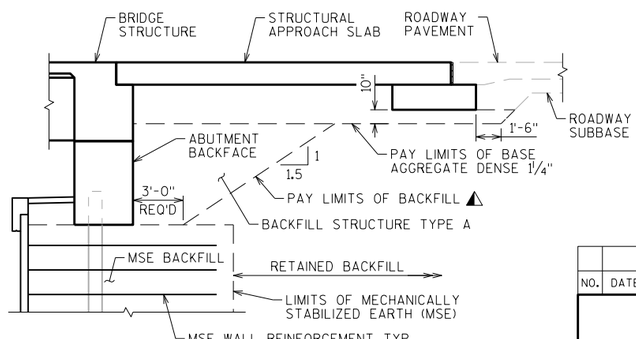
PROFILE GRADE LINE - GLENDALE AVE.



PROFILE GRADE LINE - IH 43 'HA A'

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	S. STRUCT. APP. SLAB	SOUTH ABUT.	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-1021	LS	———	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON						
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON						
501.1000.S	ICE HOT WEATHER CONCRETING	LB						
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3200	PROTECTIVE SURFACE TREATMENT	SY						
502.3210	PIGMENTED SURFACE SEALER	SY						
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF						
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB						
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB						
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						
506.4000	STEEL DIAPHRAGMS B-40-1021	EACH						
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY						
550.XXXX	PILING STEEL HP -INCH X LB	LF						
604.0400	SLOPE PAVING CONCRETE	SY						
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———	———	½", ¾", 1½"



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

STATE PROJECT NUMBER

1228-22-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES OR B-40-1021" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON APPROACH SLABS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF B-40-1019 WITH B-40-1020, B-40-1021, R-40-712, AND R-40-713.

THE EXISTING STRUCTURE B-40-73, A 3-SPAN STEEL GIRDER STRUCTURE, TO BE PARTIALLY REMOVED DURING CONSTRUCTION OF B-40-1020. THE REMAINDER OF THE STRUCTURE WILL BE REMOVED PRIOR TO CONSTRUCTION OF B-40-1019. SEE STAGING PLANS FOR MORE INFORMATION.

REMOVAL OF EXISTING STRUCTURE IS PAID FOR UNDER 'REMOVING OLD STRUCTURE' BID ITEM INCLUDED IN B-40-1020 PLANS.

TEMPORARY SHORING USED FOR RETAINING EXISTING STRUCTURE B-40-73 IS PAID FOR IN B-40-1020 PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1021

DRAWN BY DLM | PLANS CK'D. MWB

CROSS SECTION & QUANTITIES

SHEET 2

PRE_343

PRELIMINARY

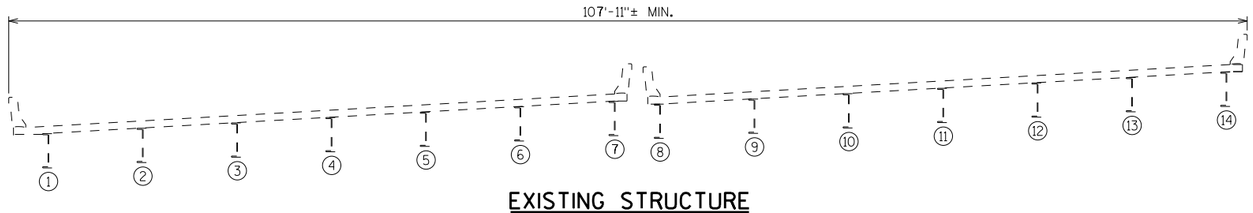
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STATE PROJECT NUMBER

1228-22-71

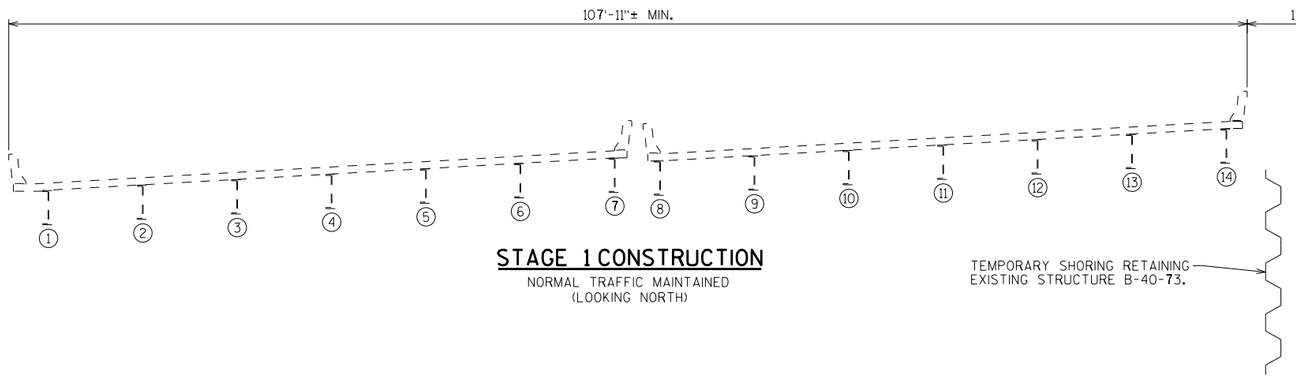


EXISTING STRUCTURE

(LOOKING NORTH)

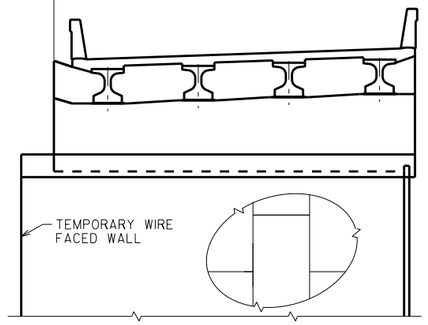
◯ INDICATES GIRDER NO.

NOTE: SEE ROADWAY PLANS FOR ADDITIONAL STAGING DETAILS

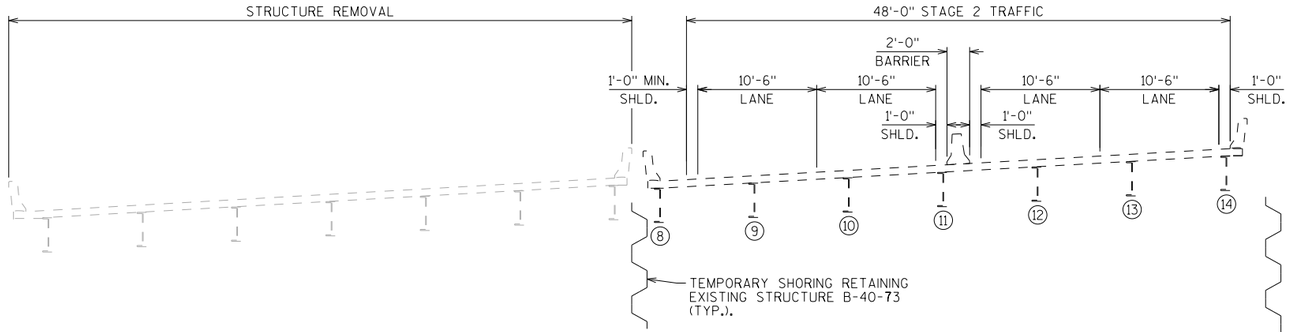


STAGE 1 CONSTRUCTION

NORMAL TRAFFIC MAINTAINED
(LOOKING NORTH)

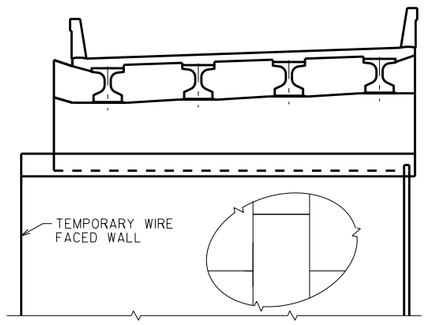


NEW STRUCTURE B-40-1021



STAGE 2 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1021

DRAWN BY DLM | PLANS CK'D. MWB

STAGING DETAILS 1

SHEET 3

PRE_344

PRELIMINARY

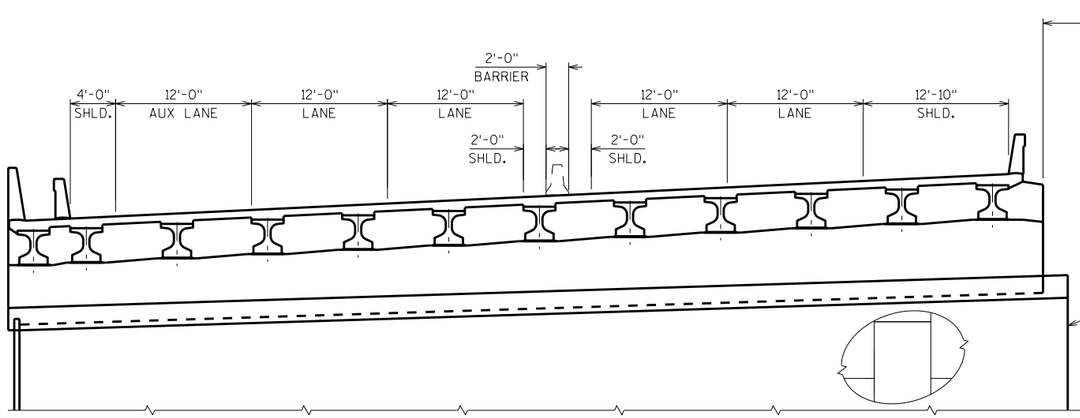
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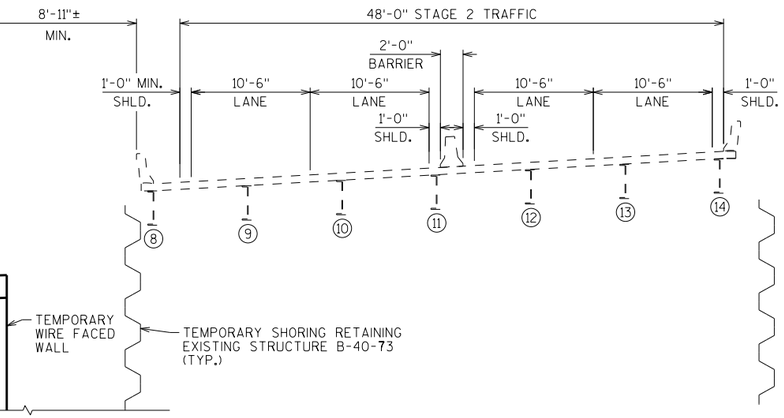
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STATE PROJECT NUMBER

1228-22-71

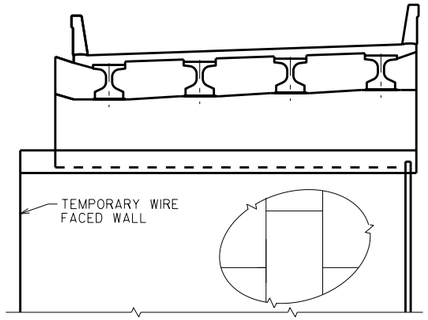


NEW STRUCTURE B-40-1020

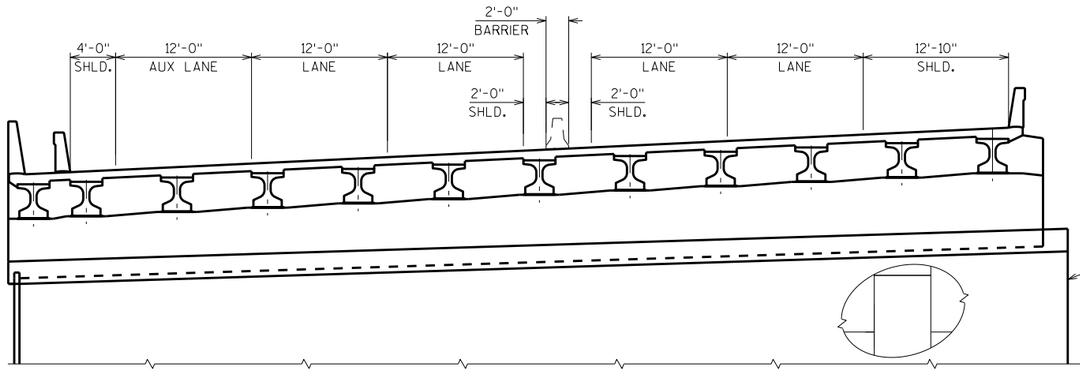


STAGE 2 CONSTRUCTION

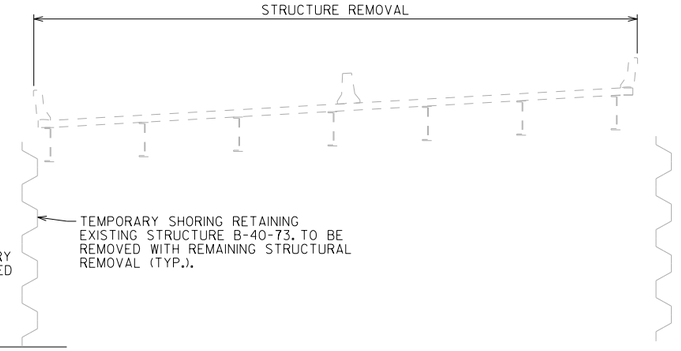
(LOOKING NORTH)



NEW STRUCTURE B-40-1021

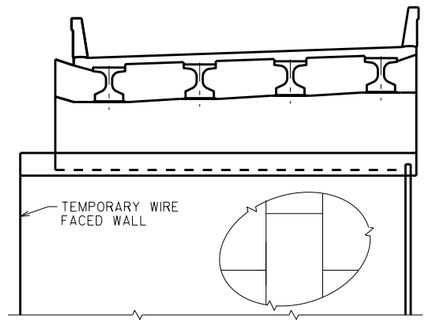


NEW STRUCTURE B-40-1020

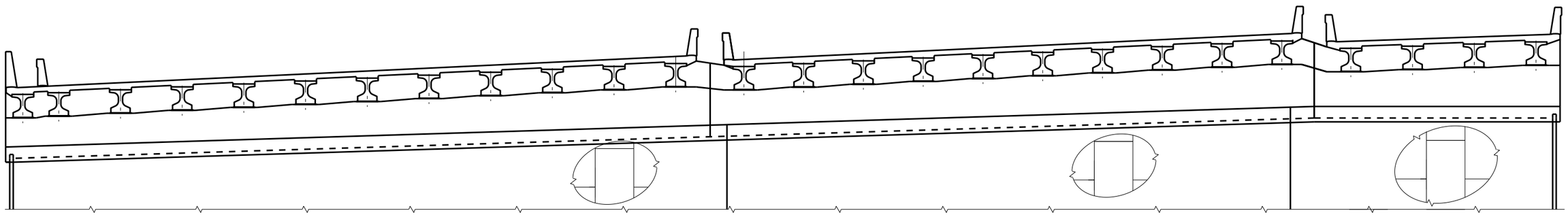


STAGE 3 REMOVAL

(LOOKING NORTH)



NEW STRUCTURE B-40-1021



NEW STRUCTURE B-40-1020

NEW STRUCTURE B-40-1019

NEW STRUCTURE B-40-1021

STAGE 3 CONSTRUCTION

(LOOKING NORTH)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1021

DRAWN BY DLM | PLANS CK'D. MWB

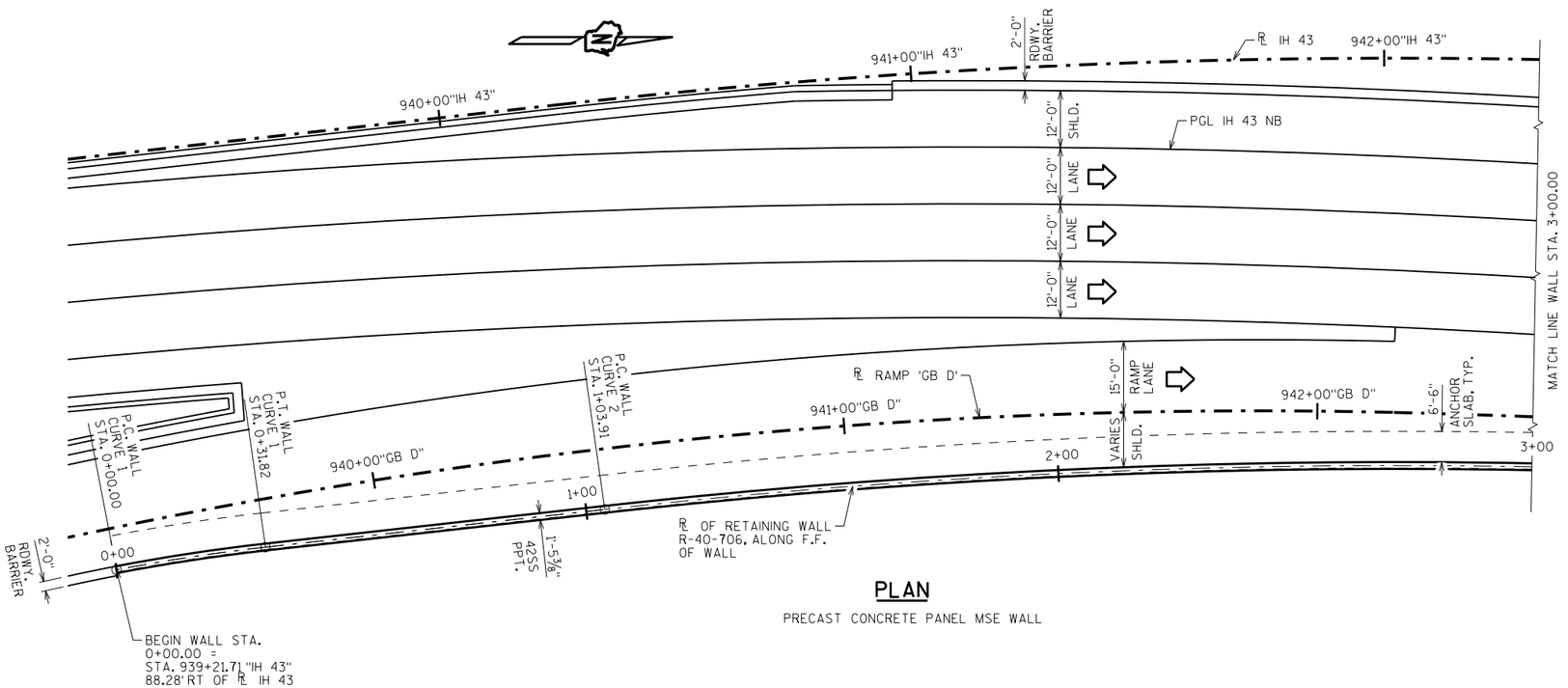
STAGING DETAILS 2

SHEET 4

PRE_345

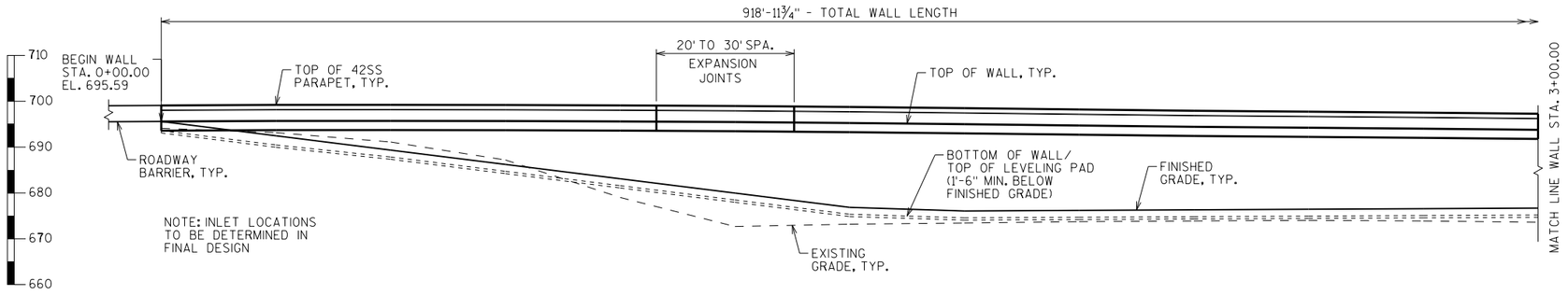
PRELIMINARY

SCALE = 6.50



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL
DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

LIST OF DRAWINGS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. GENERAL PLAN 3
4. QUANTITIES & NOTES
5. WALL GEOMETRY & DATA
6. WALL DETAILS
7.
8.
9.
10.
11.
12.
13.
14.
15.

STATE PROJECT NUMBER

1228-22-71

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE MSE RETAIINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAIING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-706".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED, THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE WALL GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
- ANCHOR SLAB AND PARAPET — f'c = 4,000 P.S.I.
- PRECAST CONCRETE WALL PANELS — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
- GRADE 60 — fy = 60,000 P.S.I.

CURVE DATA

IH 43 CURVE 1
P.I. = 930+92.25 "IH 43"
△ = 7°26'47"
D = 1°29'21"
T = 250.35'
L = 500'
R = 3847.16'
P.C. = 928+41.90 "IH 43"
P.T. = 933+41.90 "IH 43"

IH 43 CURVE 2
P.I. = 946+12.35 "IH 43"
△ = 40°16'45"
D = 3°34'52"
T = 586.77'
L = 1124.81'
R = 1600.00'
P.C. = 940+25.58 "IH 43"
P.T. = 951+50.39 "IH 43"

WALL CURVE 1
P.I. = 0+15.92
△ = 4°34'02"
D = 14°21'04"
T = 15.92'
L = 31.82'
R = 399.24'
P.C. = 0+00.00
P.T. = 0+31.82

WALL CURVE 2
P.I. = 6+59.13
△ = 40°16'45"
D = 3°47'04"
T = 555.23'
L = 1064.34'
R = 1513.99'
P.C. = 1+03.91
P.T. = 11+68.25

TRAFFIC VOLUME

IH 43 NB
ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK	(608) 261-6108
AARON BONK	(608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-40-706

M.S.E. RETAINING WALL ALONG IH 43 NB

COUNTY	CITY
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MJK		MJK	JJS

GENERAL PLAN 1

SHEET 1 OF XX

PRE_346

I.D. 1228-22-01DA

DATE: JULY 2019

SCALE = 15.00

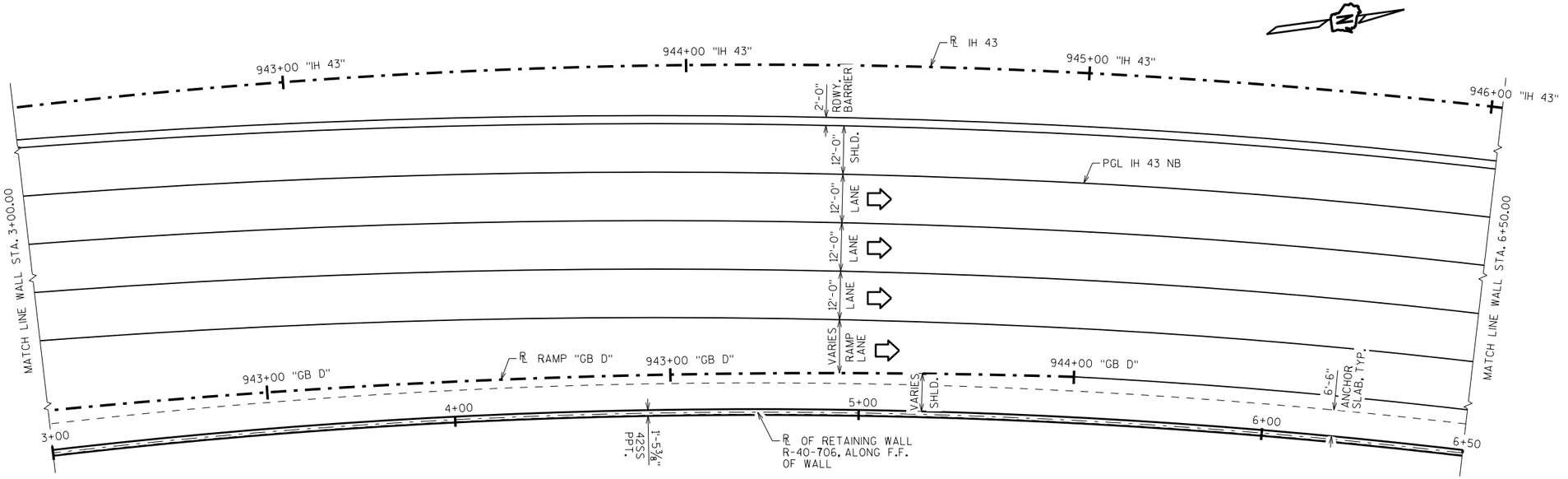
PRELIMINARY

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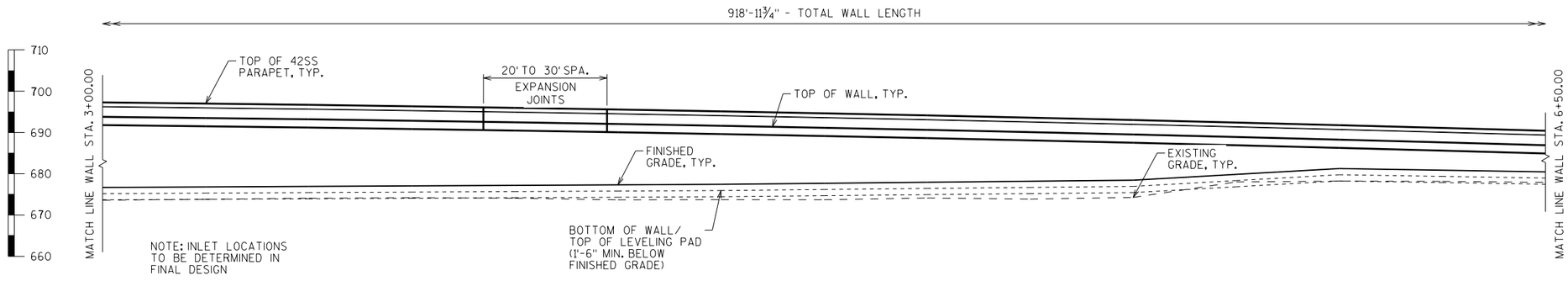
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-706

DRAWN BY MJK | PLANS CK'D. JJS

GENERAL PLAN 2

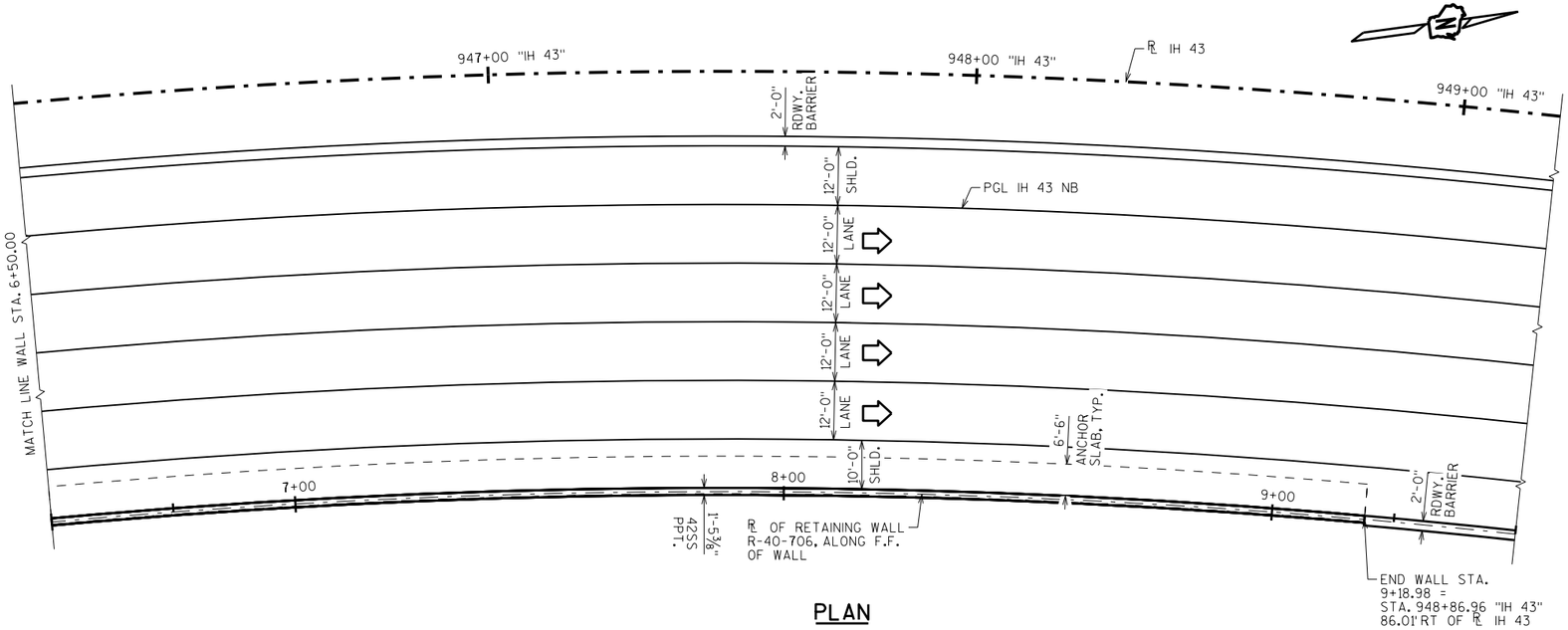
SHEET 2

PRE_347

PRELIMINARY

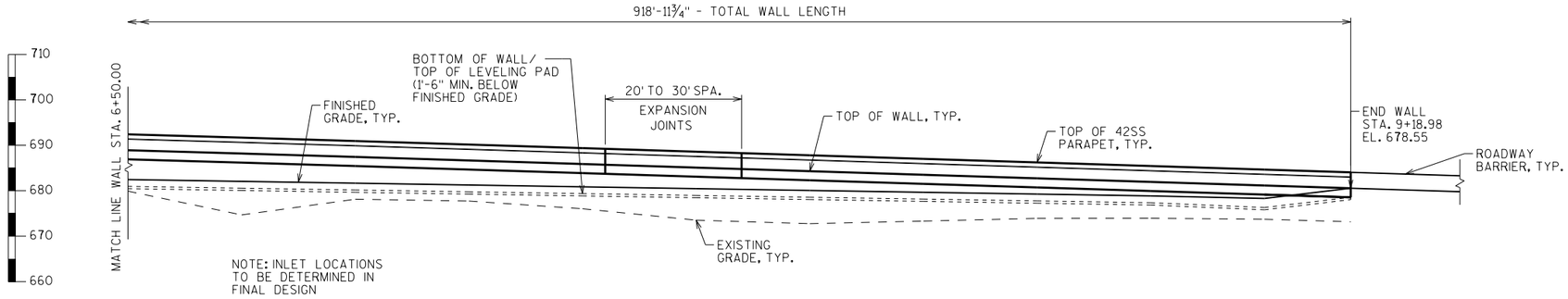
SCALE = 15.00

STATE PROJECT NUMBER
1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL
DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-706

DRAWN BY MJK | PLANS CK'D. JJS

GENERAL PLAN 3

SHEET 3

PRE_348

PRELIMINARY

SCALE = 15.00

STATE PROJECT NUMBER

1228-22-71

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	
	502.3210	PIGMENTED SURFACE SEALER	SY	
✳✳	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	
✳✳	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	
	SPV.0060	ANCHOR SLAB INLET COVER SPECIAL	EACH	
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-706	SF	
		NON-BID ITEMS		
		NON-BITUMINOUS JOINT SEALER	SIZE	½", ¾", 1"
		FILLER	SIZE	½", ¾"
		CORK FILLER	SIZE	1"
		EXPANDED POLYSTYRENE	SIZE	1"

✳✳ QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING, & PARAPET)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-40-706.

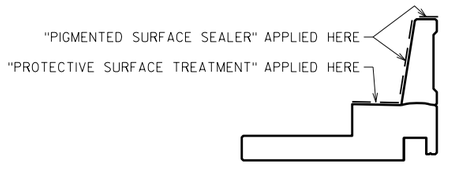
AT THE BACK FACE OF WALL ALL VOLUME WHICH CANNOT BE PLACED BEFORE WALL CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-706" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-706".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-706".



SURFACE TREATMENT/SEALER LIMITS DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-706

DRAWN BY MJK | PLANS CK'D. JJS

QUANTITIES & NOTES

SHEET 4

PRE_349

PRELIMINARY

SCALE = 1.00

STATE PROJECT NUMBER

1228-22-71

WALL GEOMETRY

WALL STA.	IH 43 ℄ STA.	℄ OFFSET TO F.F. OF WALL	TOP OF WALL EL.	FNISHED GRADE EL.	EXISTING GRADE EL.
0+00.00	939+21.71	88.28 RT	695.59	695.59	694.11
0+25.00	939+46.67	86.07 RT	695.71	692.47	693.16
0+50.00	939+71.67	86.01 RT	695.72	689.34	691.11
0+75.00	939+96.67	86.01 RT	695.69	686.22	687.19
1+00.00	940+21.67	86.01 RT	695.60	683.09	679.01
1+25.00	940+47.87	86.01 RT	695.47	679.97	672.68
1+50.00	940+74.29	86.01 RT	695.26	676.85	673.18
1+75.00	940+00.71	86.01 RT	695.00	676.06	673.43
2+00.00	941+27.13	86.01 RT	694.71	676.19	673.73
2+25.00	941+53.55	86.01 RT	694.43	676.31	673.88
2+50.00	941+79.97	86.01 RT	694.23	676.44	674.02
2+75.00	942+06.39	86.01 RT	694.02	676.56	673.88
3+00.00	942+32.81	86.01 RT	693.78	676.69	673.60
3+25.00	942+59.23	86.01 RT	693.49	676.81	673.81
3+50.00	942+85.65	86.01 RT	693.19	676.94	674.07
3+75.00	943+12.07	86.01 RT	692.83	677.06	674.19
4+00.00	943+38.5	86.01 RT	692.46	677.19	674.08
4+25.00	943+64.92	86.01 RT	692.05	677.31	673.68
4+50.00	943+91.34	86.01 RT	691.61	677.44	673.71
4+75.00	944+17.76	86.01 RT	691.13	677.69	673.70
5+00.00	944+44.18	86.01 RT	690.63	677.94	674.13
5+25.00	944+70.60	86.01 RT	690.08	678.19	673.86
5+50.00	944+97.02	86.01 RT	689.51	678.44	674.27
5+75.00	945+23.44	86.01 RT	688.90	679.85	678.02
6+00.00	945+49.86	86.01 RT	688.26	681.26	678.22
6+25.00	945+76.28	86.01 RT	687.60	680.86	678.16
6+50.00	946+02.70	86.01 RT	686.91	680.46	677.91
6+75.00	946+29.12	86.01 RT	686.19	680.06	672.68
7+00.00	946+55.54	86.01 RT	685.44	679.66	676.13
7+25.00	946+81.96	86.01 RT	684.66	679.26	675.73
7+50.00	947+08.38	86.01 RT	683.88	678.86	674.03
7+75.00	947+34.80	86.01 RT	683.09	678.46	671.52
8+00.00	947+61.22	86.01 RT	682.30	678.06	670.75
8+25.00	947+87.64	86.01 RT	681.51	677.66	671.32
8+50.00	948+14.06	86.01 RT	680.73	677.26	671.91
8+75.00	948+40.48	86.01 RT	679.94	676.86	671.94
9+00.00	948+66.90	86.01 RT	679.15	676.30	671.72
9+18.98	948+86.96	86.01 RT	678.55	678.55	671.17

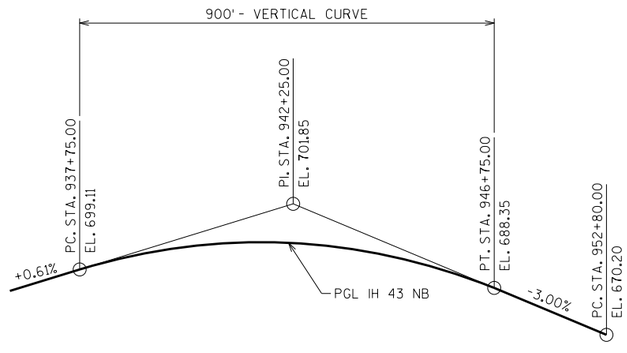
SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	30	0	120
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
EXPOSED WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
MINIMUM LENGTH OF REINFORCEMENT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	XX.X	XX.X	XX.X	XX.X	XX.X
BORING LOCATION USED	BOR - XX	BOR - XX	BOR - XX	BOR - XX	BOR - XX
APPROXIMATE WALL STATION	XX.X	XX.X	XX.X	XX.X	XX.X
BACK SLOPE ABOVE WALL	XX.X	XX.X	XX.X	XX.X	XX.X
CAPACITY TO DEMAND RATIO (CDR)					
SLIDING (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
ECCENTRICITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
OVERALL STABILITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
BEARING RESISTANCE (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
FACTORED BEARING RESISTANCE (PSF)	XXXX	XXXX	XXXX	XXXX	XXXX

NOTES:
1.
2.
3.
4.
5.



PROFILE GRADE LINE - IH 43 NB

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-706

DRAWN BY MJK | PLANS CK'D. JJS

WALL GEOMETRY & DATA

SHEET 5

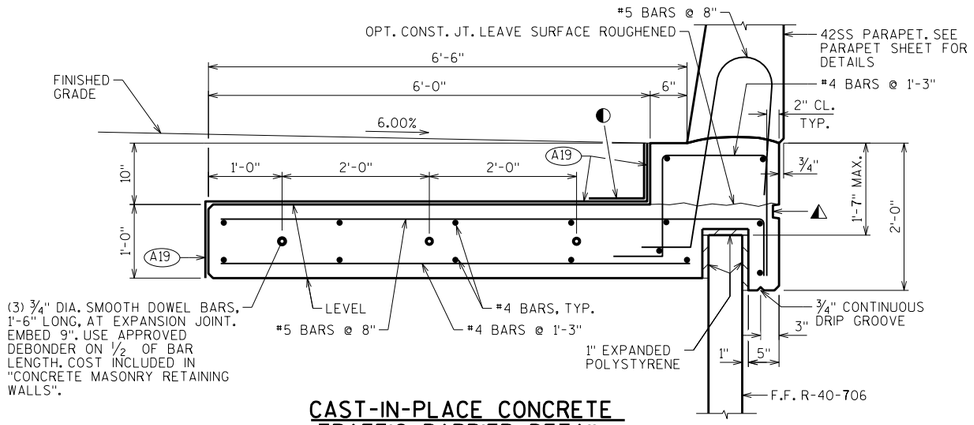
PRE_350

PRELIMINARY

SCALE = 1.00

STATE PROJECT NUMBER

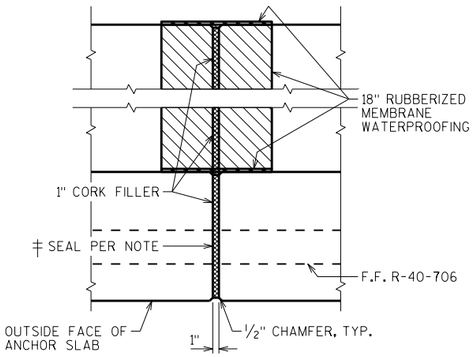
1228-22-71



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

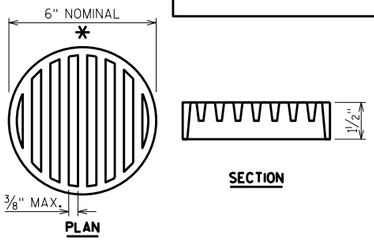
◭ PROVIDE RUSTICATION IF OPT. CONST. JT. IS USED.



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

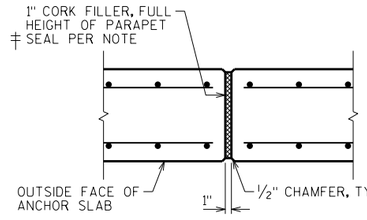


RODENT SHIELD DETAIL

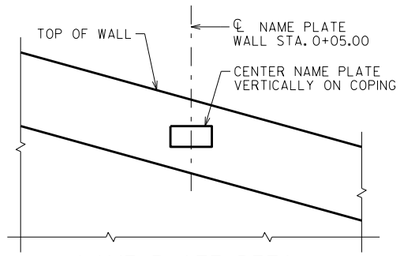
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

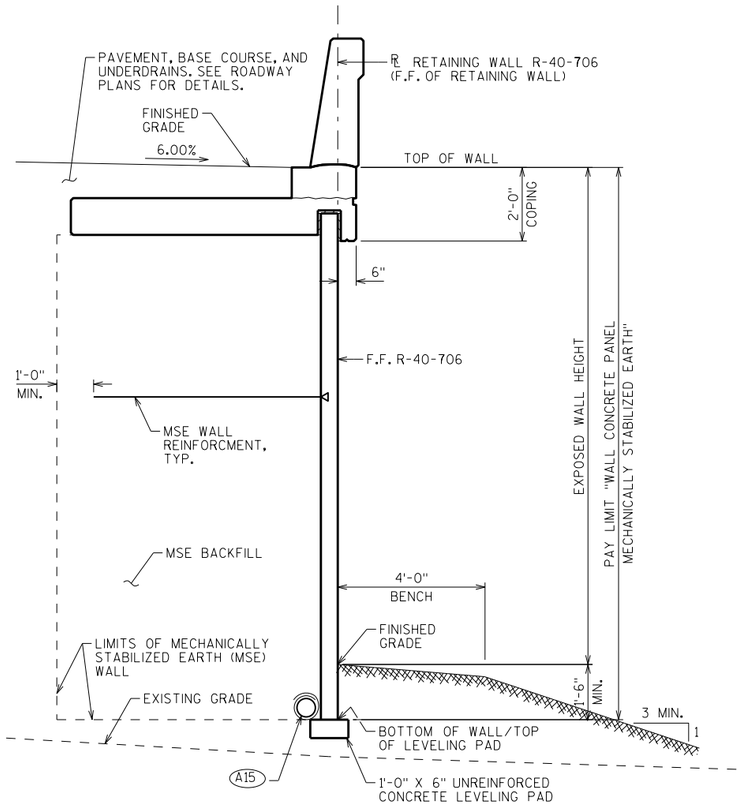
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TRAFFIC BARRIER EXPANSION JOINT DETAIL

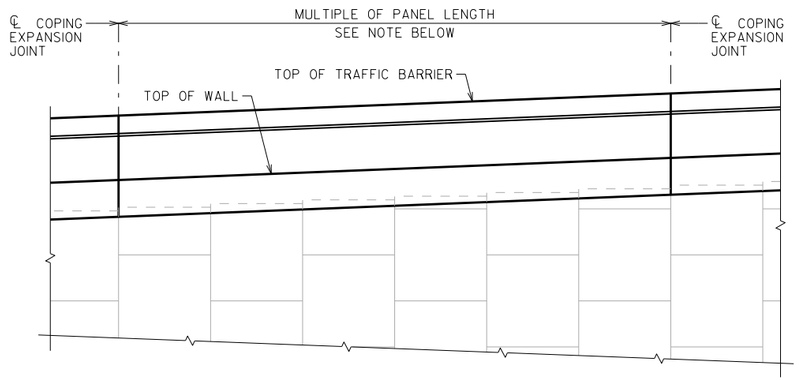


NAME PLATE DETAIL



TYPICAL SECTION

LOOKING NORTH



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-706

DRAWN BY MJK | PLANS CK'D. JJS

SHEET 6

WALL DETAILS

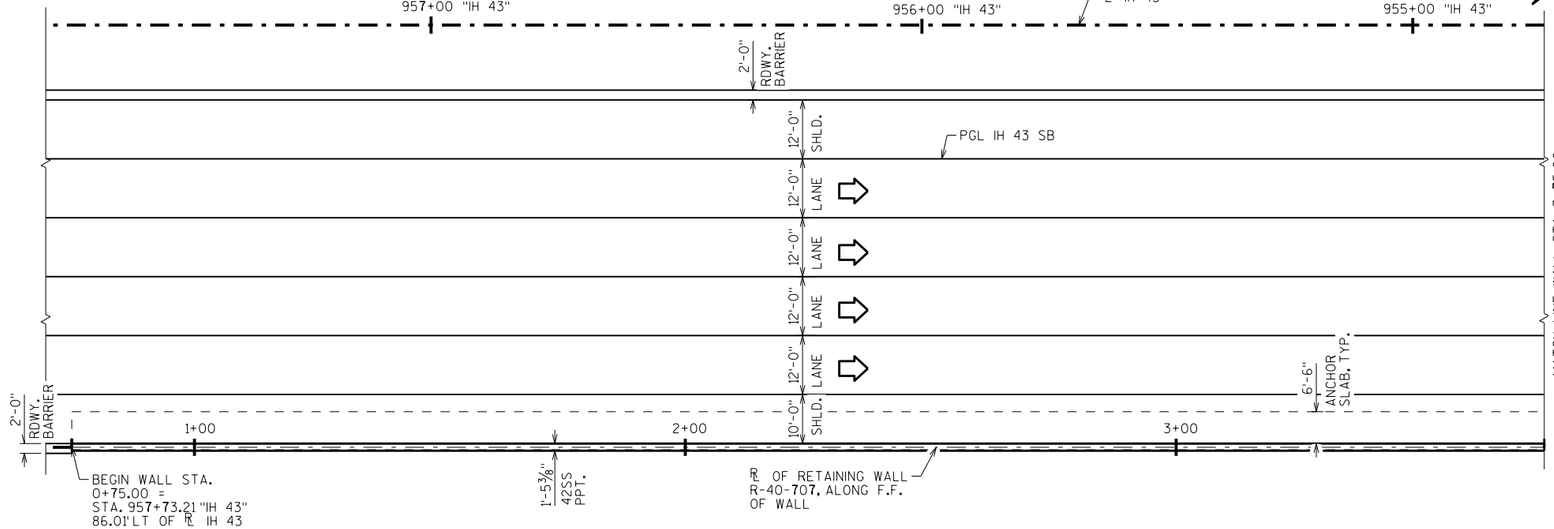
PRE_351

PRELIMINARY

SCALE = 2.00

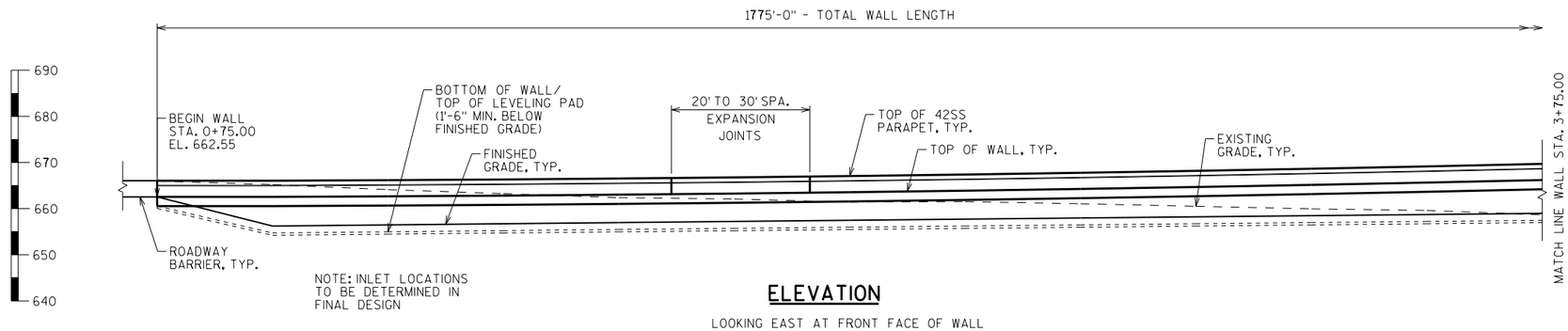
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8



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

STATE PROJECT NUMBER

1228-22-71

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE MSE RETAIINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAIING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-707".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED, THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND THE WALL GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
- ANCHOR SLAB AND PARAPET — f'c = 4,000 P.S.I.
- PRECAST CONCRETE WALL PANELS — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
- GRADE 60 — fy = 60,000 P.S.I.

CURVE DATA

IH 43 CURVE 1	IH 43 CURVE 2	RAMP GB D CURVE 1
P.I. = 930+92.25 "IH 43"	P.I. = 946+12.35 "IH 43"	P.I. = 931+74.20 "GB D"
△ = 7°26'47"	△ = 40°16'45"	△ = 12°15'50"
D = 1°29'21"	D = 3°34'52"	D = 8°08'54"
T = 250.35'	T = 586.77'	T = 75.54'
L = 500'	L = 1124.81'	L = 150.51'
R = 3847.16'	R = 1600.00'	R = 703.15'
P.C. = 928+41.90 "IH 43"	P.C. = 940+25.58 "IH 43"	P.C. = 930+98.65 "GB D"
P.T. = 933+41.90 "IH 43"	P.T. = 951+50.39 "IH 43"	P.T. = 932+49.16 "GB D"

WALL CURVE 1	WALL CURVE 2
P.I. = 13+16.13	P.I. = 19+37.45
△ = 40°16'45"	△ = 5°23'00"
D = 3°23'54"	D = 11°28'36"
T = 618.31'	T = 23.47'
L = 1185.27'	L = 46.91'
R = 1686.01'	R = 499.24'
P.C. = 6+97.82	P.C. = 19+13.98
P.T. = 18+83.09	P.T. = 19+60.88

TRAFFIC VOLUME

IH 43 SB

ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK	(608) 261-6108
AARON BONK	(608) 261-0261

LIST OF DRAWINGS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. GENERAL PLAN 3
4. GENERAL PLAN 4
5. GENERAL PLAN 5
6. QUANTITIES & NOTES
7. WALL GEOMETRY & DATA
8. WALL DETAILS
9.
10.
11.
12.
13.
14.
15.

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-40-707

M.S.E. RETAINING WALL ALONG IH 43 SB

COUNTY	CITY
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MJK		MJK	JJS

GENERAL PLAN 1

SHEET 1 OF XX

PRE_352

I.D. 1228-22-01DB

DATE: JULY 2019

SCALE = 15.00

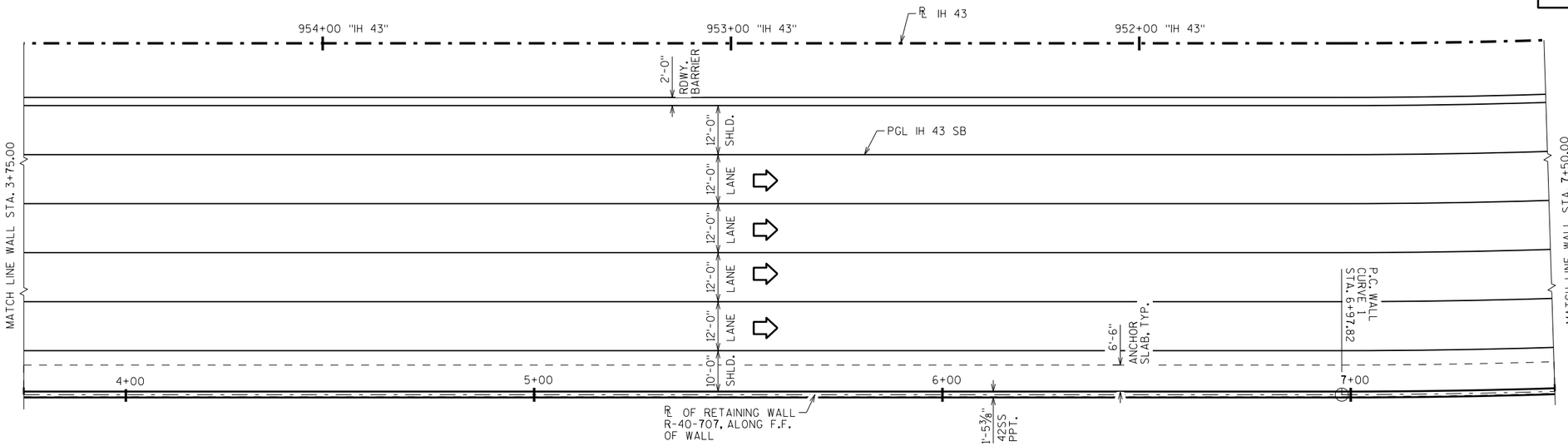
PRELIMINARY

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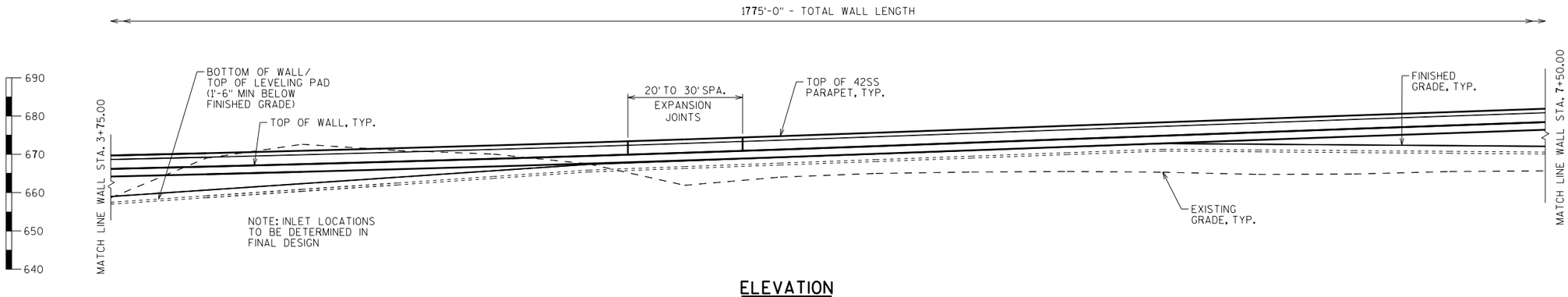
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

SHEET 2

GENERAL PLAN 2

PRE_353

PRELIMINARY

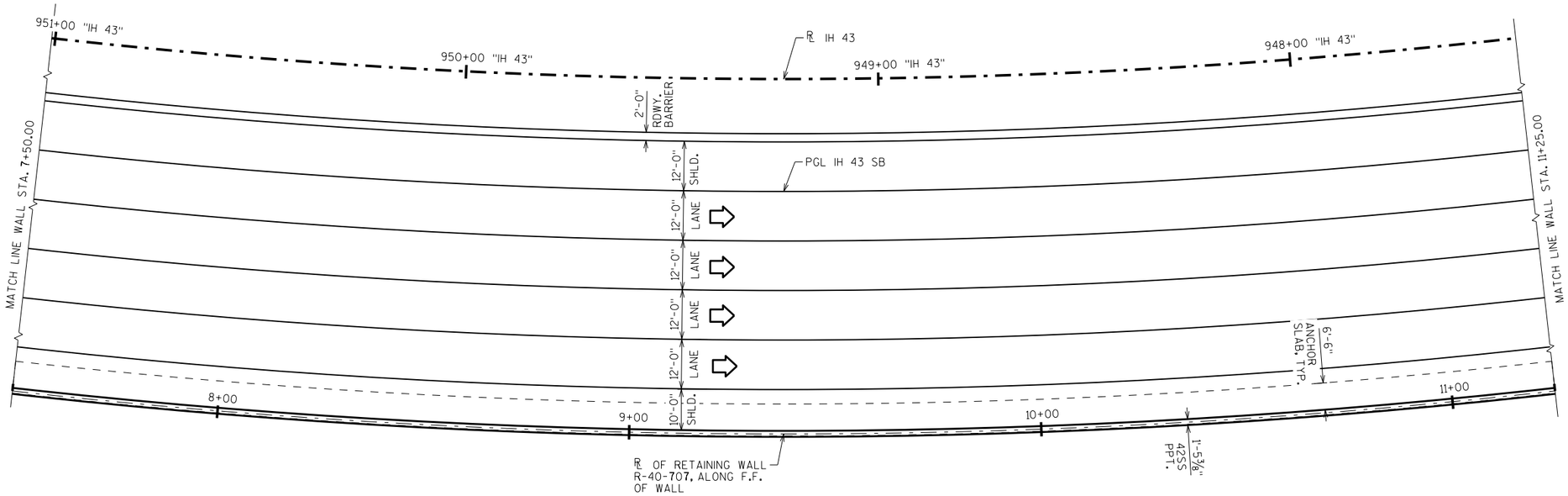
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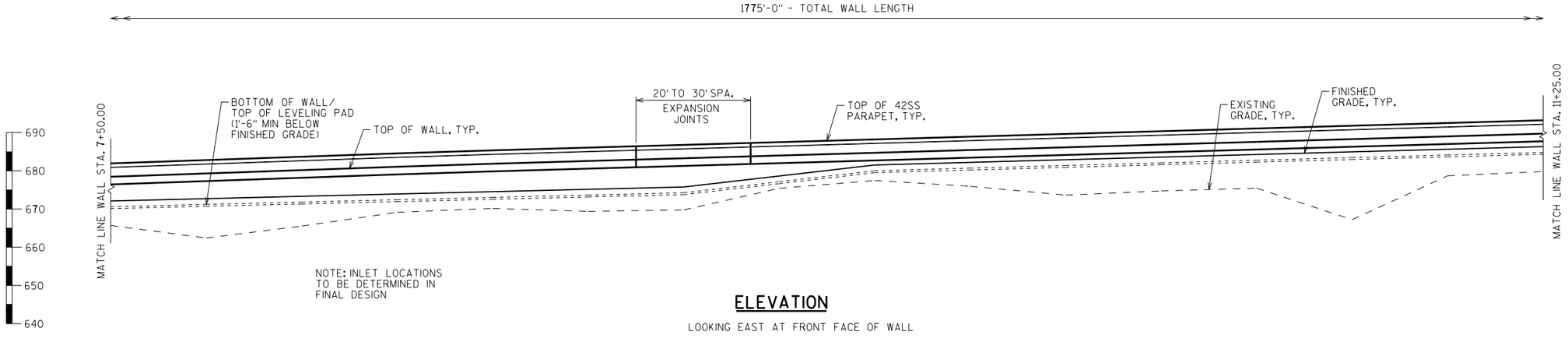
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

GENERAL PLAN 3

SHEET 3

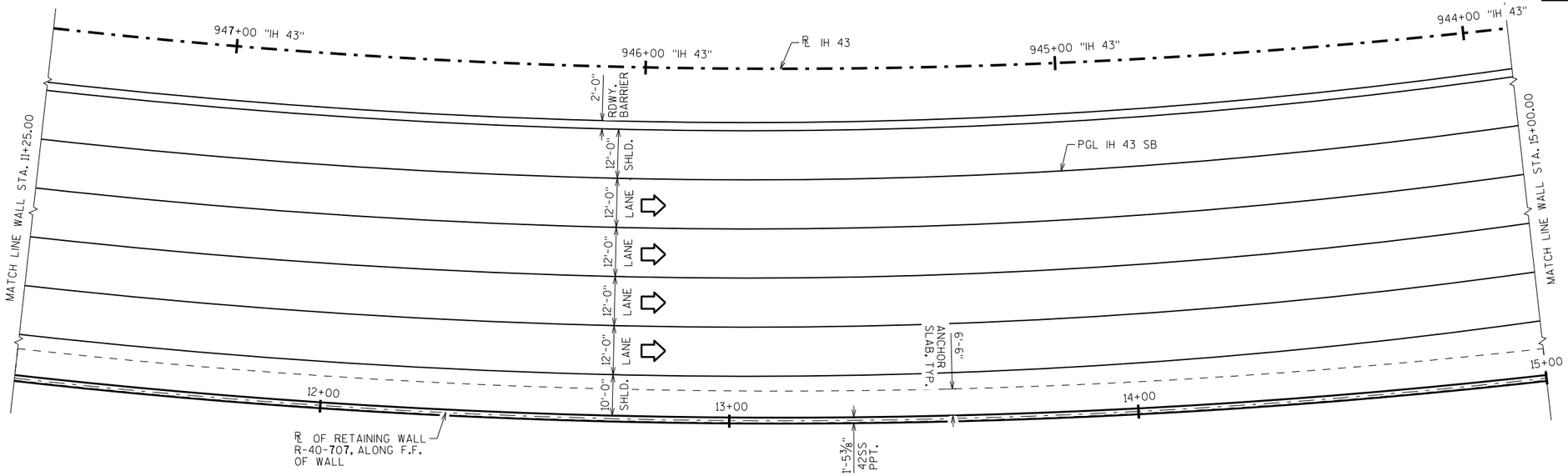
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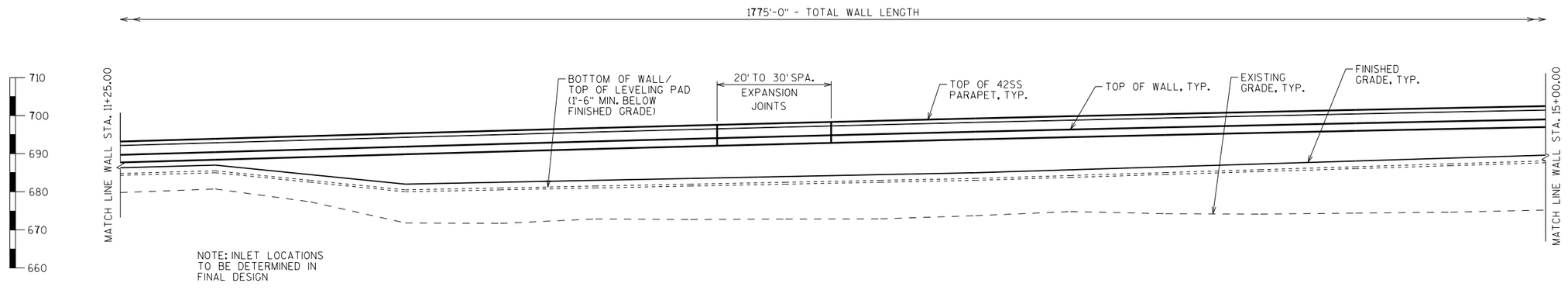
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

GENERAL PLAN 4

SHEET 4

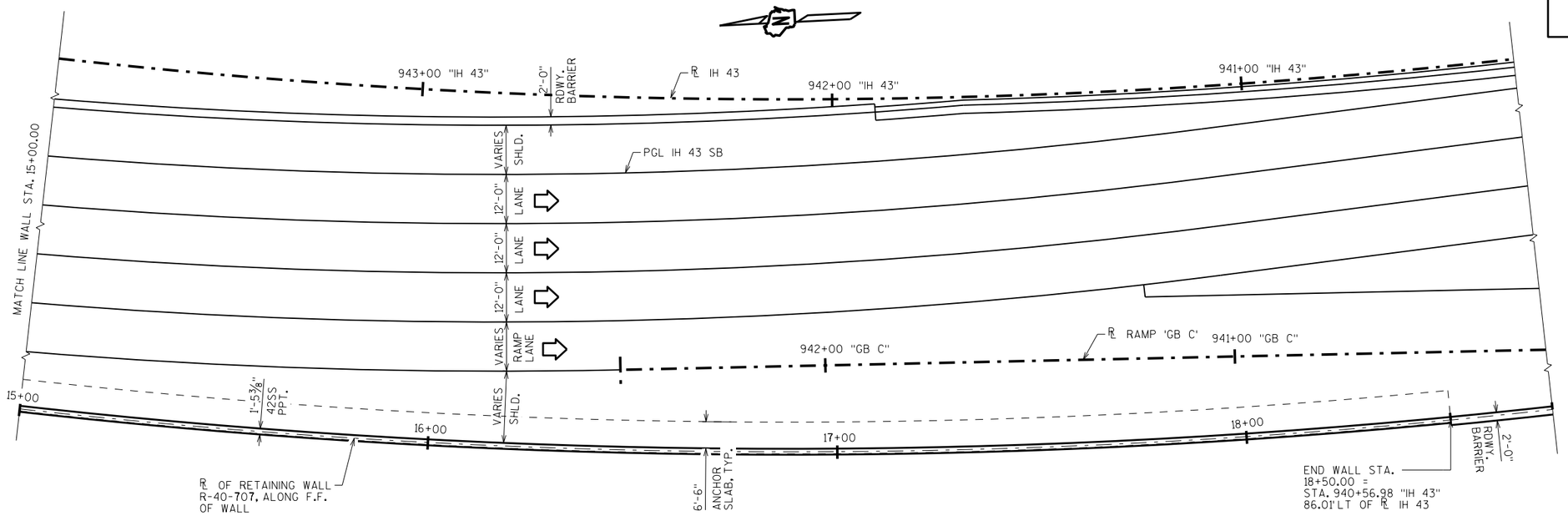
PRE_355

PRELIMINARY

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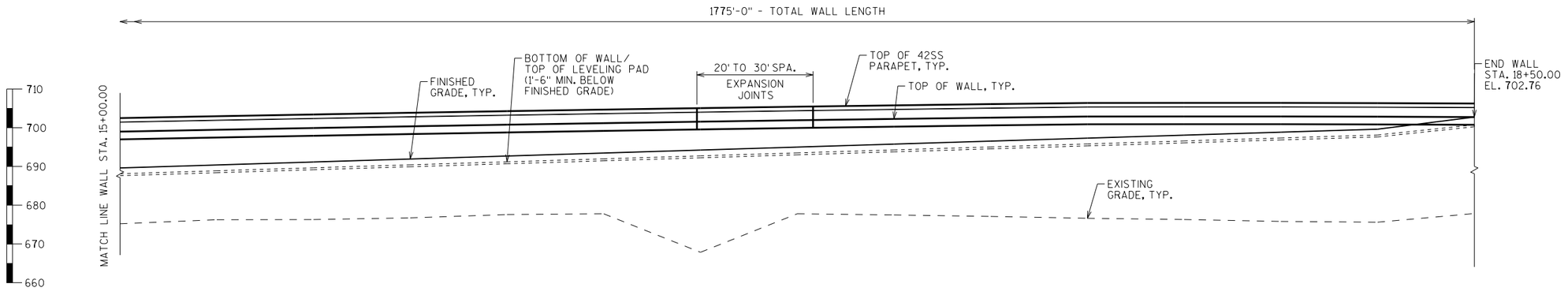
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



NOTE: INLET LOCATIONS TO BE DETERMINED IN FINAL DESIGN

ELEVATION

LOOKING EAST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

GENERAL PLAN 5

SHEET 5

PRE_356

PRELIMINARY

SCALE = 15.00

STATE PROJECT NUMBER

1228-22-71

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	
	502.3210	PIGMENTED SURFACE SEALER	SY	
✳✳	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	
✳✳	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	
	SPV.0060	ANCHOR SLAB INLET COVER SPECIAL	EACH	
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-707	SF	
		NON-BID ITEMS		
		NON-BITUMINOUS JOINT SEALER	SIZE	½", ¾", 1"
		FILLER	SIZE	½", ¾"
		CORK FILLER	SIZE	1"
		EXPANDED POLYSTYRENE	SIZE	1"

✳✳ QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING, & PARAPET)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-40-707.

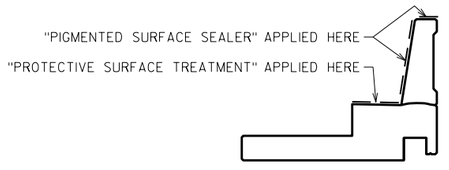
AT THE BACK FACE OF WALL ALL VOLUME WHICH CANNOT BE PLACED BEFORE WALL CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-707" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-707".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-707".



SURFACE TREATMENT/SEALER LIMITS DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

QUANTITIES & NOTES

SHEET 6

PRE_357

PRELIMINARY

SCALE = 1.00

STATE PROJECT NUMBER

1228-22-71

WALL GEOMETRY

WALL STA.	IH 43 ℄ STA.	℄ OFFSET TO F.F. OF WALL	TOP OF WALL EL.	FNISHED GRADE EL.	EXISTING GRADE EL.
0+75.00	957+73.21	86.01 LT	662.55	662.55	665.99
1+00.00	957+48.21	86.01 LT	662.55	656.23	665.21
1+25.00	957+23.21	86.01 LT	662.67	656.48	664.12
1+50.00	956+98.21	86.01 LT	662.82	656.73	663.25
1+75.00	956+73.21	86.01 LT	663.03	656.98	662.38
2+00.00	956+48.21	86.01 LT	663.27	657.23	662.09
2+25.00	956+23.21	86.01 LT	663.56	657.48	661.42
2+50.00	955+98.21	86.01 LT	663.89	657.73	661.53
2+75.00	955+73.21	86.01 LT	664.27	657.98	661.06
3+00.00	955+48.21	86.01 LT	664.69	658.23	660.52
3+25.00	955+23.21	86.01 LT	665.15	658.48	659.95
3+50.00	954+98.21	86.01 LT	665.65	658.73	659.62
3+75.00	954+73.21	86.01 LT	666.20	658.98	658.65
4+00.00	954+48.21	86.01 LT	666.79	660.66	669.01
4+25.00	954+23.21	86.01 LT	667.43	662.34	672.63
4+50.00	953+98.21	86.01 LT	668.11	664.02	671.56
4+75.00	953+73.21	86.01 LT	668.83	665.71	670.06
5+00.00	953+48.21	86.01 LT	669.59	667.39	667.48
5+25.00	953+23.21	86.01 LT	670.40	668.30	661.91
5+50.00	952+98.21	86.01 LT	671.25	669.21	664.05
5+75.00	952+73.21	86.01 LT	672.14	670.11	665.01
6+00.00	952+48.21	86.01 LT	673.05	671.02	665.37
6+25.00	952+23.21	86.01 LT	673.96	671.93	665.52
6+50.00	951+98.21	86.01 LT	674.86	672.84	665.33
6+75.00	951+73.21	86.01 LT	675.76	672.65	664.75
7+00.00	951+48.32	86.01 LT	676.67	672.46	664.85
7+25.00	951+24.59	86.01 LT	677.54	672.28	665.50
7+50.00	951+00.87	86.01 LT	678.42	672.09	665.68
7+75.00	950+77.14	86.01 LT	679.29	672.70	662.41
8+00.00	950+53.42	86.01 LT	680.16	673.31	665.53
8+25.00	950+29.70	86.01 LT	681.04	673.92	669.13
8+50.00	950+05.97	86.01 LT	681.83	674.53	670.15
8+75.00	949+82.25	86.01 LT	682.55	675.14	669.37
9+00.00	949+58.52	86.01 LT	683.26	675.75	669.76
9+25.00	949+34.80	86.01 LT	683.98	678.62	675.40
9+50.00	949+11.07	86.01 LT	684.69	681.50	677.45
9+75.00	948+87.35	86.01 LT	685.41	682.19	675.93
10+00.00	948+63.62	86.01 LT	686.12	682.88	673.62
10+25.00	948+39.90	86.01 LT	686.84	683.56	674.72
10+50.00	948+16.17	86.01 LT	687.55	684.25	675.44
10+75.00	947+92.45	86.01 LT	688.27	684.94	667.21
11+00.00	947+68.72	86.01 LT	688.98	685.62	678.68
11+25.00	947+45.00	86.01 LT	689.70	686.31	679.79
11+50.00	947+21.28	86.01 LT	690.41	687.00	680.72
11+75.00	946+97.55	86.01 LT	691.13	684.50	677.35
12+00.00	946+73.83	86.01 LT	691.85	682.00	671.81
12+25.00	946+50.10	86.01 LT	692.55	682.50	671.69
12+50.00	946+26.38	86.01 LT	693.24	683.00	672.86
12+75.00	946+02.65	86.01 LT	693.90	683.50	672.72
13+00.00	945+78.93	86.01 LT	694.54	684.00	672.84
13+25.00	945+55.20	86.01 LT	695.16	684.50	672.89
13+50.00	945+31.48	86.01 LT	695.77	685.00	673.71
13+75.00	945+07.75	86.01 LT	696.35	685.77	674.79
14+00.00	944+84.03	86.01 LT	696.92	686.54	674.24
14+25.00	944+60.30	86.01 LT	697.47	687.31	674.14
14+50.00	944+36.98	86.01 LT	698.00	688.08	674.39
14+75.00	944+12.85	86.01 LT	698.51	688.85	674.63
15+00.00	943+89.13	86.01 LT	699.00	689.62	675.20
15+25.00	943+65.41	86.01 LT	699.48	690.39	676.25
15+50.00	943+41.68	86.01 LT	699.93	691.16	676.29

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	30	0	120
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX

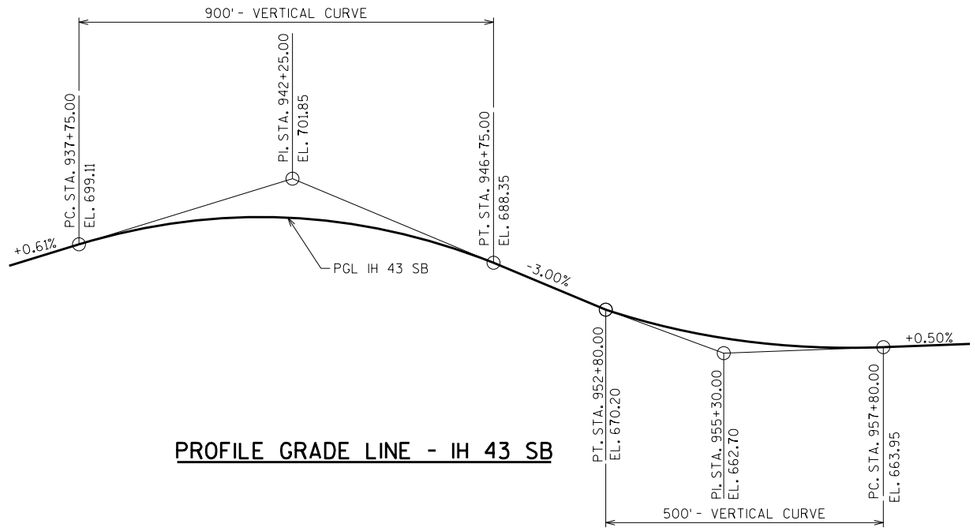
WALL GEOMETRY (CONTINUED)

WALL STA.	IH 43 ℄ STA.	℄ OFFSET TO F.F. OF WALL	TOP OF WALL EL.	FNISHED GRADE EL.	EXISTING GRADE EL.
15+75.00	943+17.96	86.01 LT	700.37	691.93	676.73
16+00.00	942+94.23	86.01 LT	700.79	692.70	677.58
16+25.00	942+70.51	86.01 LT	701.19	693.47	677.78
16+50.00	942+46.78	86.01 LT	701.57	694.24	667.84
16+75.00	942+23.06	86.01 LT	701.94	695.01	677.78
17+00.00	941+99.33	86.01 LT	702.28	695.78	677.48
17+25.00	941+75.61	86.01 LT	702.61	696.55	677.10
17+50.00	941+51.88	86.01 LT	702.90	697.32	676.62
17+75.00	941+28.16	86.01 LT	702.92	698.09	676.30
18+00.00	941+04.43	86.01 LT	702.92	698.86	675.81
18+25.00	940+80.71	86.01 LT	702.86	699.63	675.61
18+50.00	940+56.98	86.01 LT	702.76	702.76	677.85

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
EXPOSED WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
MINIMUM LENGTH OF REINFORCEMENT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	XX.X	XX.X	XX.X	XX.X	XX.X
BORING LOCATION USED	BOR - XX	BOR - XX	BOR - XX	BOR - XX	BOR - XX
APPROXIMATE WALL STATION	XX.X	XX.X	XX.X	XX.X	XX.X
BACK SLOPE ABOVE WALL	XX.X	XX.X	XX.X	XX.X	XX.X
CAPACITY TO DEMAND RATIO (CDR)					
SLIDING (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
ECCENTRICITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
OVERALL STABILITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
BEARING RESISTANCE (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
FACTORED BEARING RESISTANCE (PSF)	XXXX	XXXX	XXXX	XXXX	XXXX

NOTES:
1.
2.
3.
4.
5.



PROFILE GRADE LINE - IH 43 SB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

WALL GEOMETRY & DATA

SHEET 7

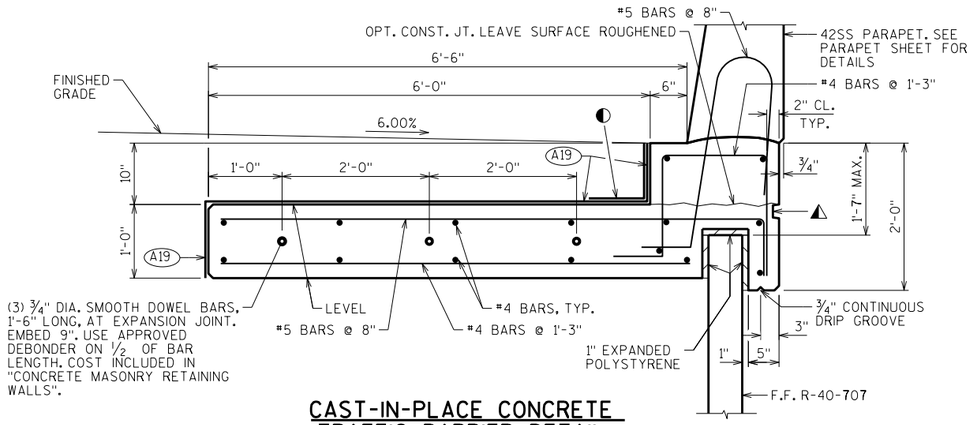
PRE_358

PRELIMINARY

SCALE = 1.00

8

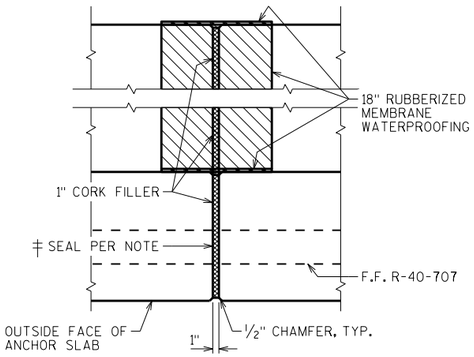
8



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

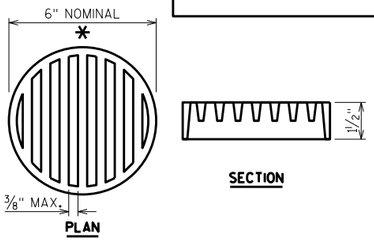
◭ PROVIDE RUSTICATION IF OPT. CONST. JT. IS USED.



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

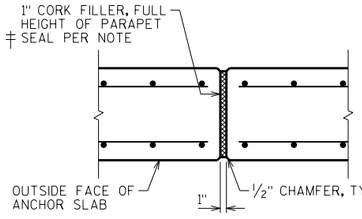


RODENT SHIELD DETAIL

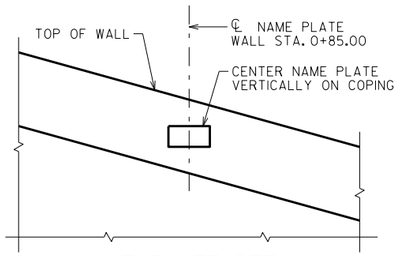
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

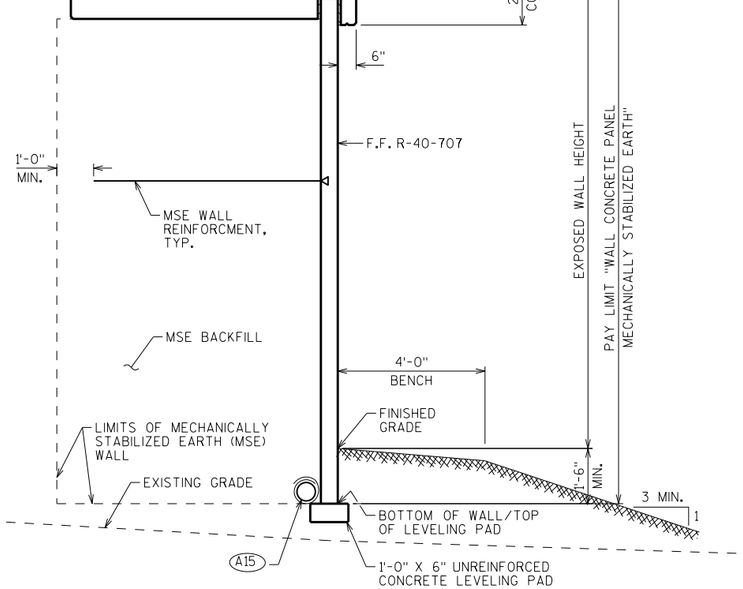
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TRAFFIC BARRIER EXPANSION JOINT DETAIL

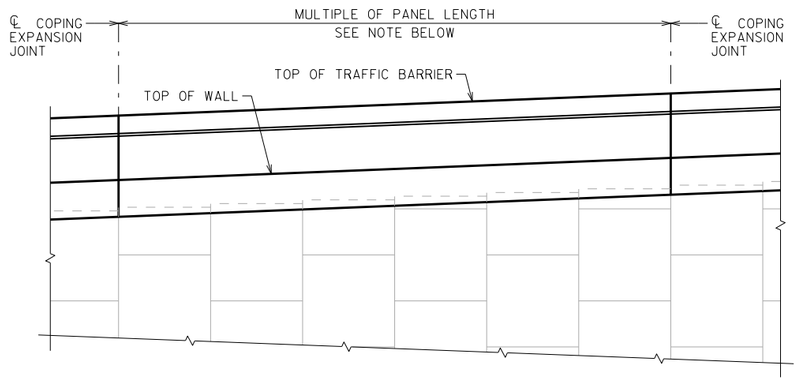


NAME PLATE DETAIL



TYPICAL SECTION

LOOKING SOUTH



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-707

DRAWN BY MJK | PLANS CK'D. JJS

SHEET 8

WALL DETAILS

PRE_359

STATE PROJECT NUMBER
1228-22-71

PRELIMINARY

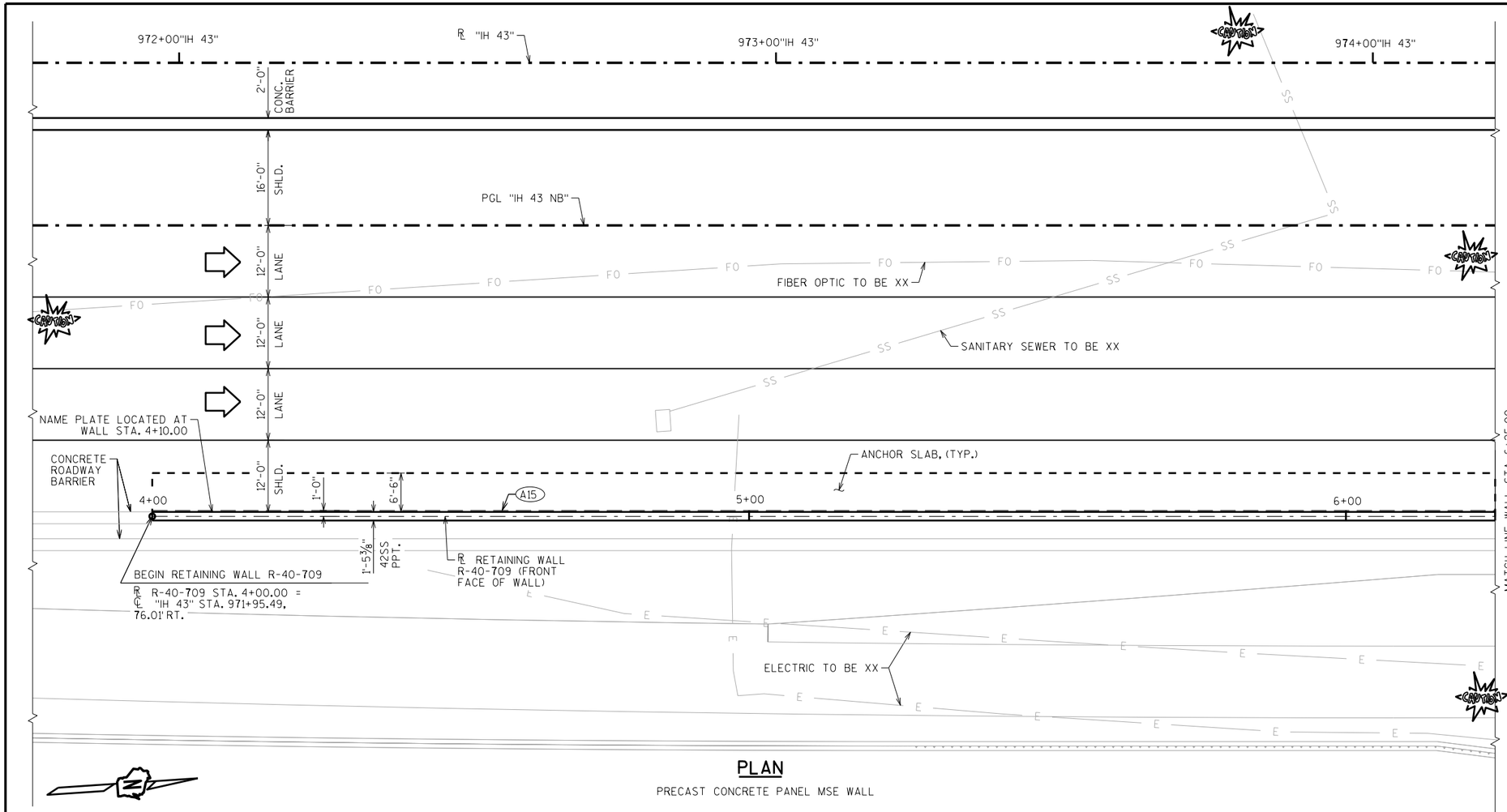
SCALE = 2.00

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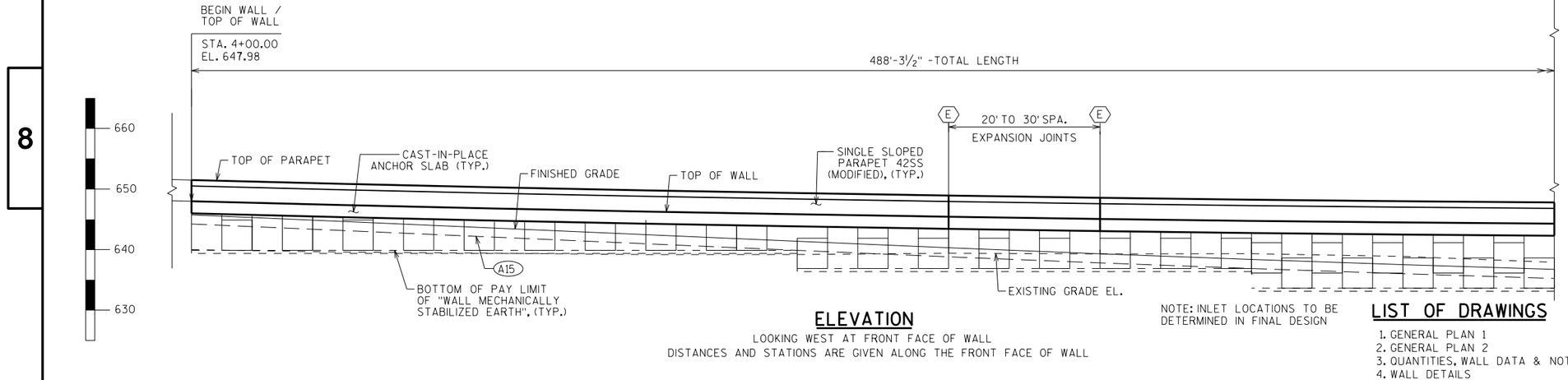
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL
DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

NOTE: INLET LOCATIONS TO BE DETERMINED IN FINAL DESIGN

LIST OF DRAWINGS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. QUANTITIES, WALL DATA & NOTES
4. WALL DETAILS
5.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE MSE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH"

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND IN THE WALL GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
(ANCHOR SLAB & PARAPET) —— f'c = 4,000 P.S.I.

PRECAST CONCRETE WALL PANELS — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT —— fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

LEGEND

- INDICATES FINAL ROADWAY LANE LOCATION AND DIRECTION OF TRAVEL
- (E) EXPANSION JOINT
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

TRAFFIC VOLUME

IH 43 NB
ADT = 125,400 (2015)
R.D.S. = 50 M.P.H.

STRUCTURE DESIGN CONTACTS:

JOHN SENDOR (608) 266-5163
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-40-709

M.S.E. RETAINING WALL ALONG IH 43 NB

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JJS	MJK	JJS	MJK

GENERAL PLAN 1

SHEET 1 OF 4

PRE_360

I.D. 1228-22-01DC DATE: AUG. 2019

SCALE = 10.00

PRELIMINARY

8

8

STATE PROJECT NUMBER

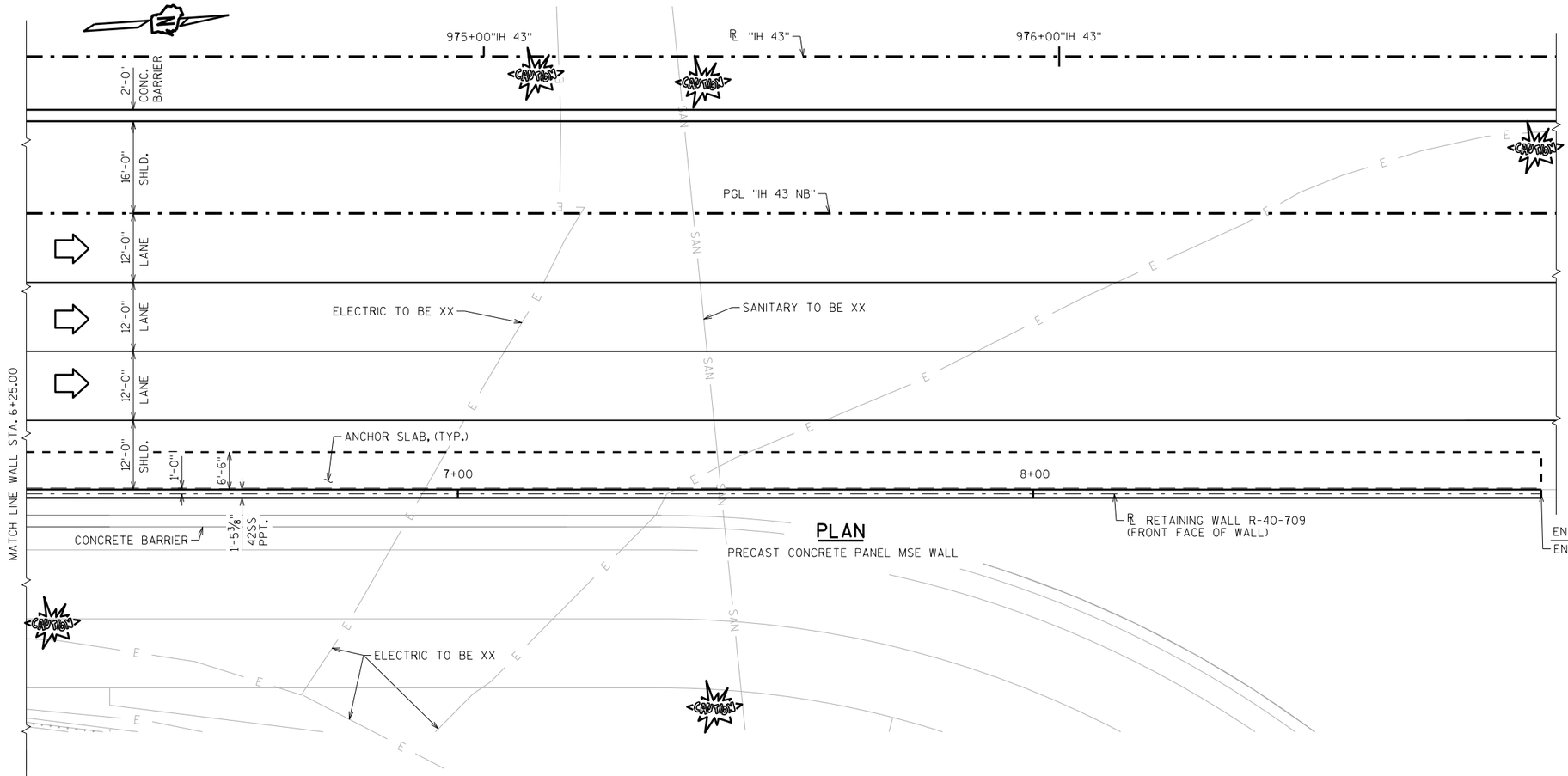
1228-22-71

LEGEND

INDICATES FINAL ROADWAY LANE LOCATION AND DIRECTION OF TRAVEL

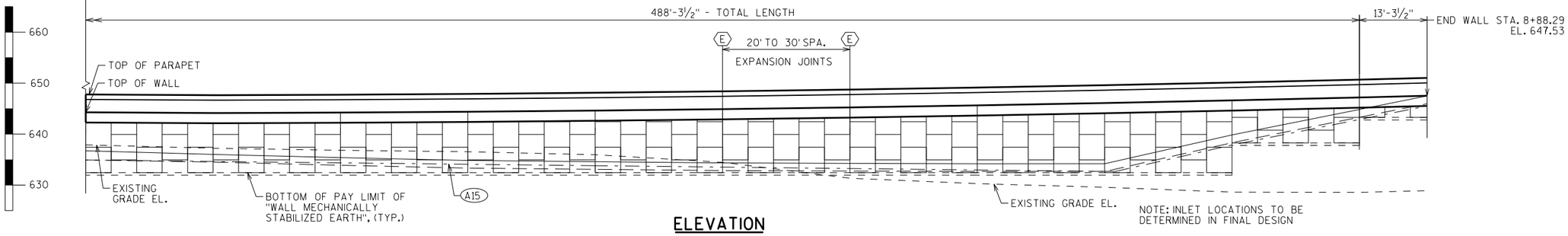
(E) EXPANSION JOINT

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING WEST AT FRONT FACE OF WALL

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-709

DRAWN BY JJS | PLANS CK'D. MJK

GENERAL PLAN 2

SHEET 2

PRE_361

PRELIMINARY

SCALE = 1:1.00

STATE PROJECT NUMBER

1228-22-71

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND/BELOW THE REINFORCING ZONE	30	0	120
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
BOR-__ - STA. XX+XX.XX - XX'LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL. ___.__	XX	XX	XXX

MSE WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS			
WALL HEIGHT (FEET)1	XX.X	XX.X	XX.X
EXPOSED WALL HEIGHT (FEET)	XX.X	XX.X	XX.X
LENGTH OF REINFORCEMENT (FEET)3	XX.X	XX.X	XX.X
LENGTH OF REIN. / WALL HEIGHT	XX.X	XX.X	XX.X
WALL STATION (WS)	XX.X	XX.X	XX.X
BORING USED	BOR - XX	BOR - XX	BOR - XX
CAPACITY TO DEMAND RATIO (CDR)			
SLIDING (CDR > 1.0)	X.X	X.X	X.X
ECCENTRICITY (CDR > 1.0)	X.X	X.X	X.X
GLOBAL STABILITY (CDR > 1.0)	X.X	X.X	X.X
BEARING RESISTANCE (CDR > 1.0)	X.X	X.X	X.X
REQUIRED BEARING RESISTANCE (PSF)	XXXX	XXXX	XXXX

1.
2.
3.
4.

GEOMETRY TABLE

WALL STATION	R/L IH 43 STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
4+00.00	971+95.49	76.01 RT	647.98	645.72	639.98
4+25.00	972+20.49	76.01 RT	647.35	644.64	639.59
4+50.00	972+45.49	76.01 RT	646.78	643.55	639.40
4+75.00	972+70.49	76.01 RT	646.27	642.46	639.17
5+00.00	972+95.49	76.01 RT	645.83	641.37	639.19
5+25.00	973+20.49	76.01 RT	645.42	640.30	639.40
5+50.00	973+45.49	76.01 RT	645.05	639.30	639.28
5+75.00	973+70.49	76.01 RT	644.73	638.37	639.32
6+00.00	973+95.49	76.01 RT	644.48	637.51	638.87
6+25.00	974+20.49	76.01 RT	644.28	636.73	637.89
6+50.00	974+45.49	76.01 RT	644.14	636.02	637.23
6+75.00	974+70.49	76.01 RT	644.23	635.39	636.83
7+00.00	974+95.49	76.01 RT	644.39	634.83	636.54
7+25.00	975+20.49	76.01 RT	644.62	634.59	635.96
7+50.00	975+45.49	76.01 RT	644.90	634.35	634.47
7+75.00	975+70.49	76.01 RT	645.24	634.26	631.34
8+00.00	975+95.49	76.01 RT	645.64	634.18	630.28
8+25.00	976+20.49	76.01 RT	646.10	634.19	629.57
8+50.00	976+45.49	76.01 RT	646.62	639.84	628.62
8+75.00	976+70.49	76.01 RT	647.19	644.84	628.57
8+88.29	976+83.78	76.01 RT	647.53	647.50	628.91

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EXPOXY COATED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-40-709.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-709" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 5". FOR PANEL THICKNESS DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE TRAFFIC SIDE AND THE TOP OF THE PARAPET

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TRAFFIC SIDE OF THE EXPOSED ANCHOR SLAB SURFACE.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-709".

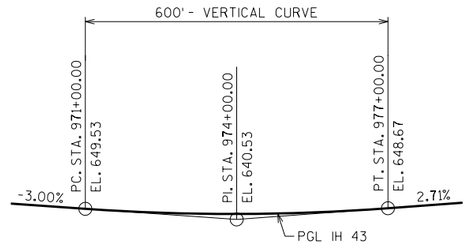
SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-709".

CURVE DATA

IH 43 CURVE 3

P.I. = 965+10.79"IH43"
△ = 30°04'58"
D = 2°32'47"
T = 604.63'
L = 1181.35'
R = 2250.00'
P.C. = 959+06.16"IH 43"
P.T. = 970+87.52"IH 43"



PROFILE GRADE LINE - IH 43

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	
	502.3210	PIGMENTED SURFACE SEALER	SY	
✳✳	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	
✳✳	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	
	SPV.0060	ANCHOR SLAB INLET COVER SPECIAL	EACH	
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-709	SF	
		NON-BID ITEMS		
		NON-BITUMINOUS JOINT SEALER	SIZE	1"
		CORK FILLER	SIZE	1"
		EXPANDED POLYSTYRENE	SIZE	1"

✳✳ QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING & PARAPET)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-709

DRAWN BY JJS | PLANS CK'D. MJK

QUANTITIES, WALL DATA & NOTES

SHEET 3

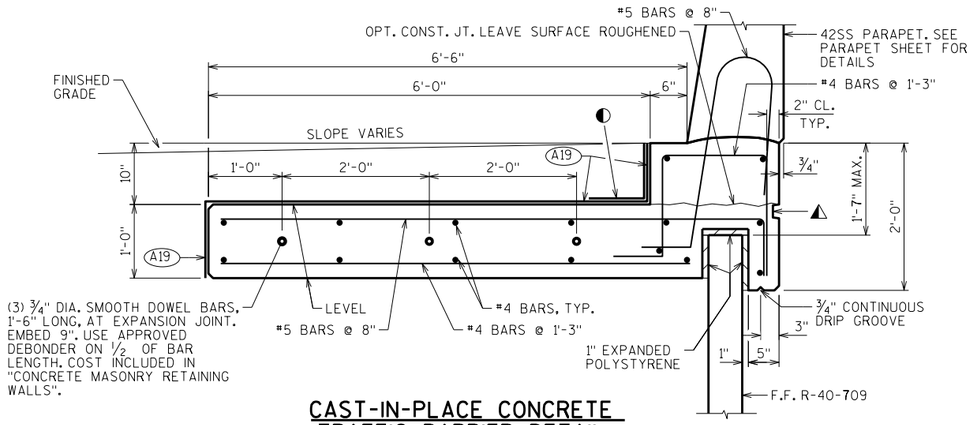
PRE_362

PRELIMINARY

SCALE = 11.00

STATE PROJECT NUMBER

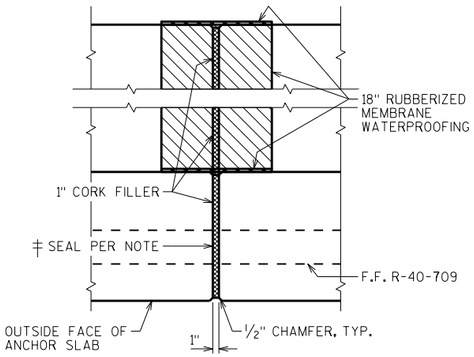
1228-22-71



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

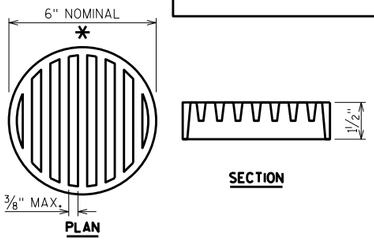
◭ PROVIDE RUSTICATION IF OPT. CONST. JT. IS USED.



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

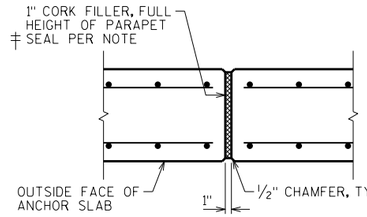


RODENT SHIELD DETAIL

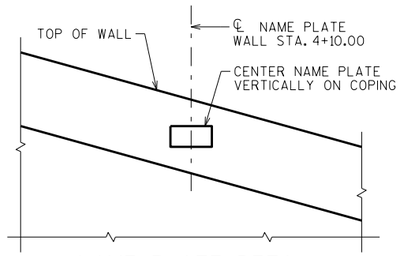
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

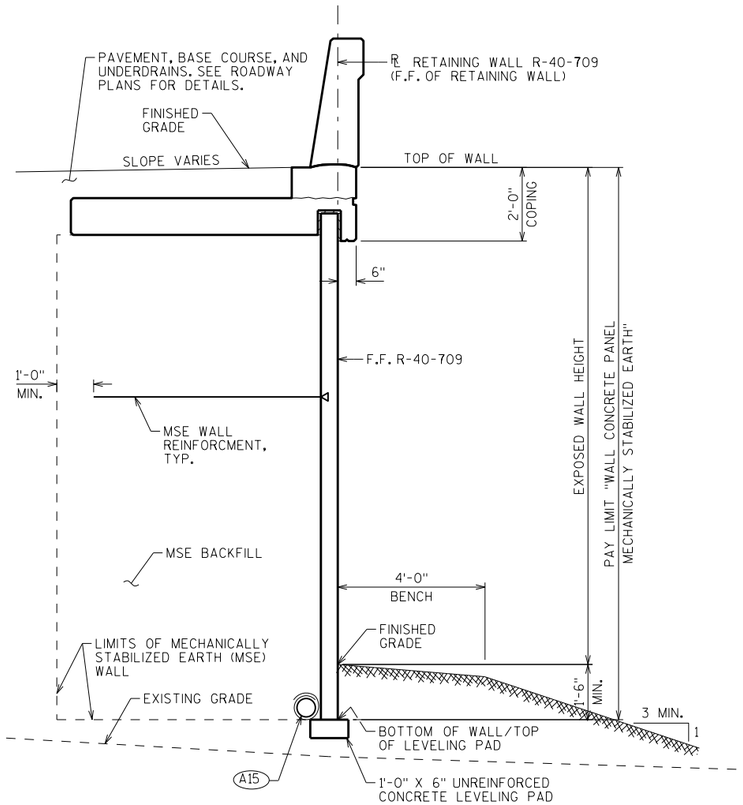
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TRAFFIC BARRIER EXPANSION JOINT DETAIL

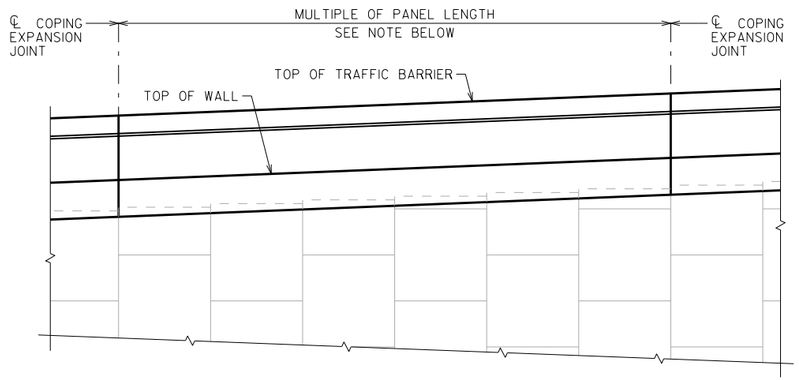


NAME PLATE DETAIL



TYPICAL SECTION

LOOKING SOUTH



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-709

DRAWN BY JJS | PLANS CK'D. MJK

SHEET 4

WALL DETAILS

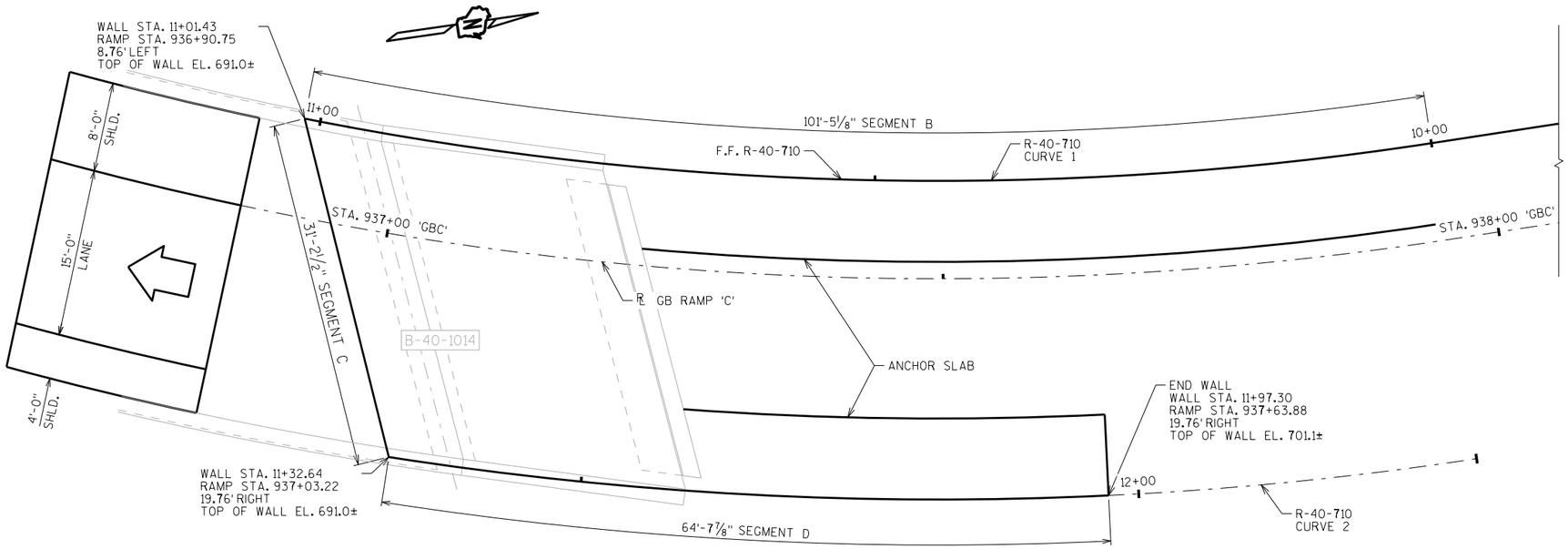
PRE_363

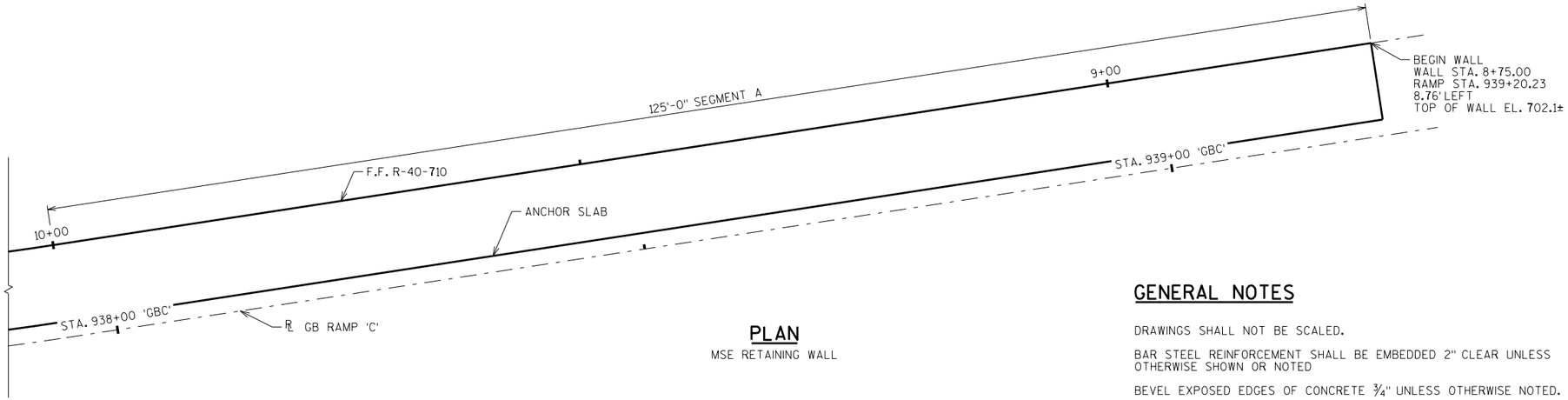
PRELIMINARY

SCALE =

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PLAN
MSE RETAINING WALL

PRELIMINARY PLAN

LIST OF DRAWINGS
1. GENERAL PLAN
2. ELEVATION
3. QUANTITIES, WALL DATA, & PROFILE

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH."

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING ELEVATIONS GIVEN ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE LOAD OF 240 PSF.

DESIGN THE MSE WALL TO RESIST THE FORCE FROM ALL HORIZONTAL EARTH PRESSURE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS. THIS FORCE MAY BE DISTRIBUTED OVER THE DISTANCE FROM THE BACK OF THE ABUTMENT TO THE BACK OF THE PANELS IN FRONT OF THE ABUTMENT.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY: CAST-IN-PLACE COPING ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT: GRADE 60 ——— fy = 60,000 P.S.I.

CURVE DATA

R-40-710 CURVE 1		R-40-710 CURVE 2	
P.I. =	10+51.23	P.I. =	11+81.92
△ =	19°57'13"	△ =	17°31'23"
D =	19°40'23"	D =	17°55'06"
T =	51.20'	T =	49.30'
L =	101.43'	L =	97.79'
R =	291.24'	R =	319.76'
P.C. =	10+00.00	P.C. =	11+32.64
P.T. =	11+01.43	P.T. =	12+30.43

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVE TO THE FRONT FACE OF WALL R-40-710.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALL R-40-710 WITH THE ABUTMENT OF BRIDGE B-40-1014.

THE EXISTING STRUCTURE (B-40-117) IS NOT SHOWN. THE REMOVAL OF THE STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FROM BRIDGE B-40-1014.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE CONCRETE MASONRY & REINFORCING STEEL FOR THE CAST-IN-PLACE COPING IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH."

THE BACKFILL BEHIND THE MSE WALL WITH PRECAST CONCRETE FACING SHOULD BE GRANULAR AND FREE DRAINING.

THE SOILS ENGINEER SHALL REVIEW THE FILL SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION OF THE WALL.

STATE PROJECT NUMBER

1228-22-71

STRUCTURE DESIGN CONTACTS:

MICAH BROOKS (608) 266-5080

LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE R-40-710

RETAINING WALL AT N. ABUT. OF B-40-1014

COUNTY	CITY
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MWB	JLR	PJR	MWB

GENERAL PLAN

SHEET 1 OF 3

PRE_364

I.D. 1228-22-01DD DATE: JAN 2020

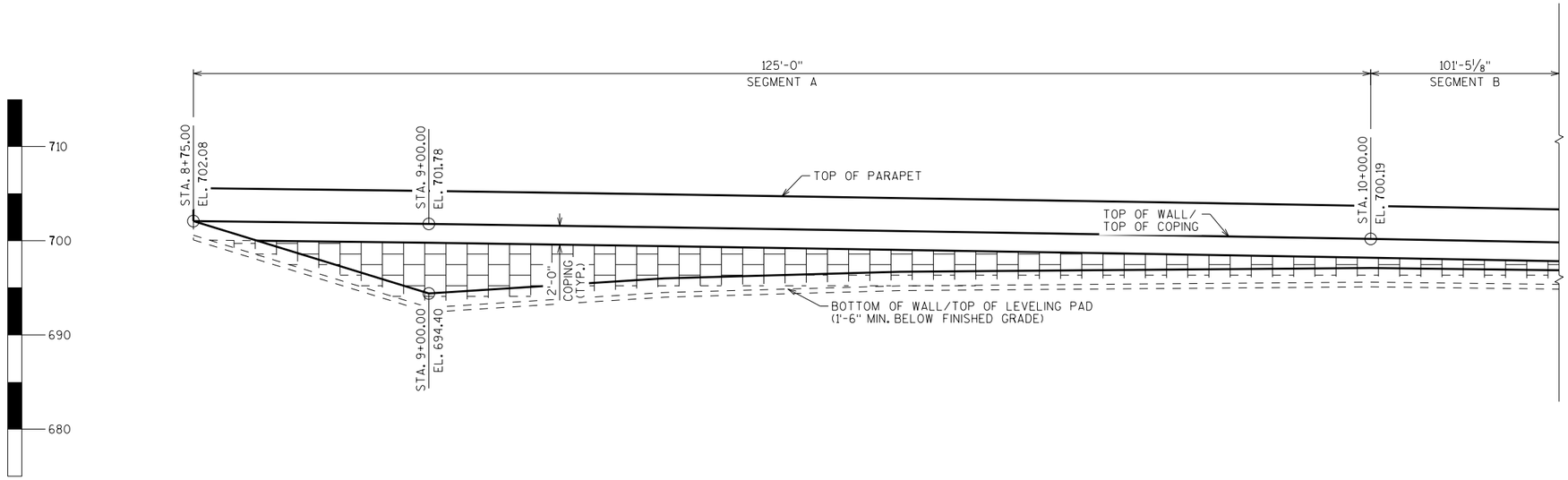
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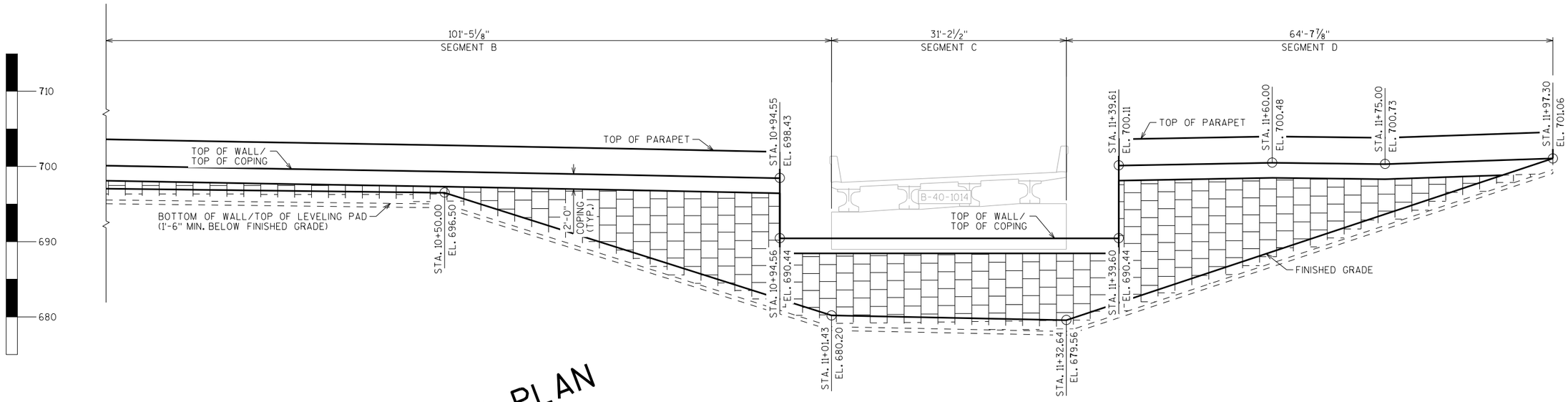
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STATE PROJECT NUMBER

1228-22-71





PRELIMINARY PLAN

ELEVATION

FRONT FACE OF WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-710

DRAWN BY PJR | PLANS CK'D. MWB

ELEVATION

SHEET 2

PRE_365

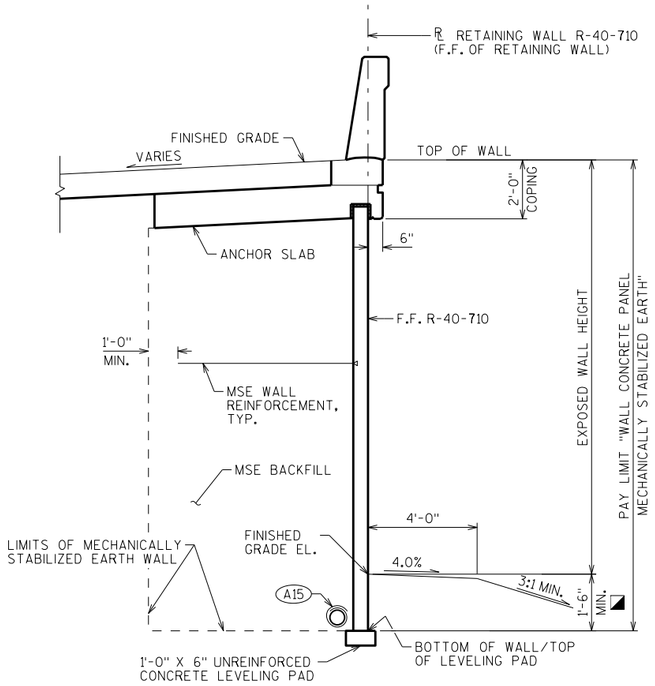
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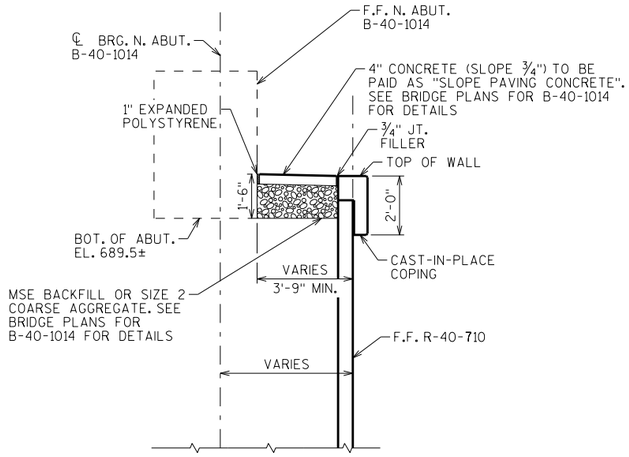
STATE PROJECT NUMBER

1228-22-71



WALL SECTION

SEGMENT A: STA. 8+75.00 TO 11+01.43
SEGMENT C: STA. 11+32.64 TO 11+97.30



WALL SECTION

SEGMENT B: STA. 11+01.43 TO 11+32.64

GEOMETRY TABLE

WALL STATION	RL IH 43 SB OFF RAMP	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
8+75.00	939+20.23	8.76'LT.	702.08	702.08	697.42
9+00.00	938+95.23	8.76'LT.	701.78	694.40	697.47
9+25.00	938+70.23	8.76'LT.	701.42	696.00	697.84
9+50.00	938+45.23	8.76'LT.	701.02	696.70	698.19
9+75.00	938+20.23	8.76'LT.	700.62	696.90	698.45
10+00.00	937+95.23	8.76'LT.	700.19	697.10	698.70
10+25.00	937+69.48	8.76'LT.	699.73	696.80	698.01
10+50.00	937+43.72	8.76'LT.	699.31	696.50	697.58
10+75.00	937+17.97	8.76'LT.	698.84	688.58	690.81
10+94.55	936+97.84	8.76'LT.	698.43	682.38	683.10
10+94.56	936+97.83	8.76'LT.	690.44	682.38	683.10
11+01.43	936+90.75	8.76'LT.	690.44	680.20	680.25
11+32.64	937+03.22	19.76 RT.	690.44	679.56	679.59
11+39.60	937+09.75	19.76 RT.	690.44	681.88	682.41
11+39.61	937+09.76	19.76 RT.	700.11	681.88	682.44
11+60.00	937+28.89	19.76 RT.	700.48	688.66	690.82
11+75.00	937+42.96	19.76 RT.	700.73	693.65	699.37
11+97.30	937+63.88	19.76 RT.	701.06	701.06	699.71

PRELIMINARY PLAN

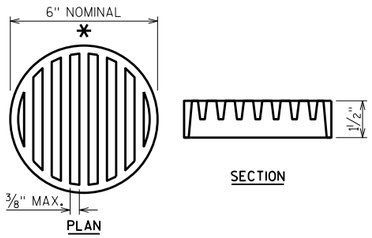
TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	---
**	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	===
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	---
		NON-BID ITEMS		
		PRE-FORMED JOINT FILLER	SIZE	¾"
		NON-BITUMINOUS JOINT FILLER	SIZE	¾"

** QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING, & PARAPET)

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

◪ MINIMUM EMBEDMENT BASED OF SITE SPECIFIC PARAMETERS (1'-6" MINIMUM FOR ALL WALLS ON LEVEL GROUND). FIELD EMBEDMENTS SHALL MEET OR EXCEED THE MINIMUM EMBEDMENT. FIELD EMBEDMENTS BELOW MINIMUM EMBEDMENT SHALL NOT BE INCLUDED IN THE PAY LIMITS.

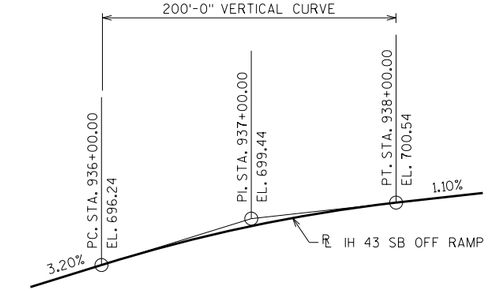


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



PROFILE GRADE LINE - IH 43 SB OFF RAMP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-710

DRAWN BY PJR | PLANS CK'D. MWB

QUANTITIES, WALL DATA, & PROFILE

SHEET 3

PRE_366

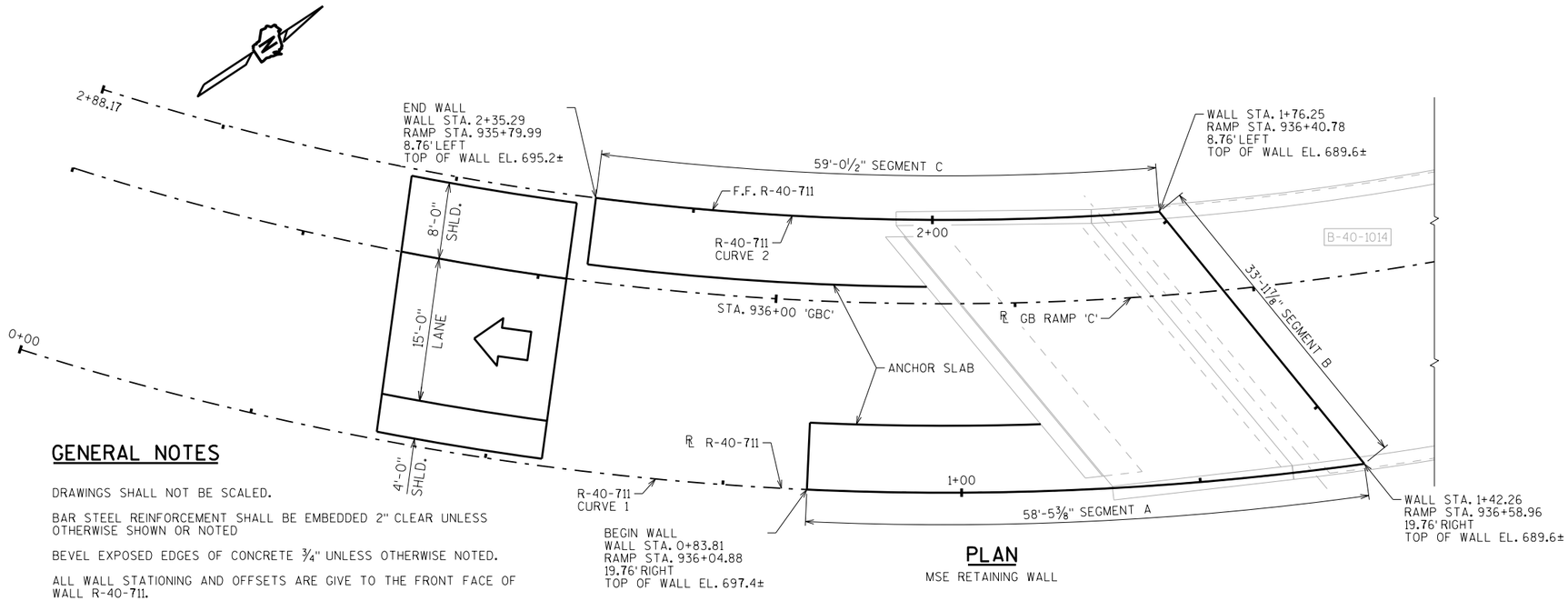
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SCALE = 2.50

STATE PROJECT NUMBER

1228-22-71



PLAN

MSE RETAINING WALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVE TO THE FRONT FACE OF WALL R-40-711.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF RETAINING WALL R-40-711 WITH THE ABUTMENT OF BRIDGE B-40-1014.

THE EXISTING STRUCTURE (B-40-117) IS NOT SHOWN. THE REMOVAL OF THE STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM FROM BRIDGE B-40-1014.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE CONCRETE MASONRY & REINFORCING STEEL FOR THE CAST-IN-PLACE COPING IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH."

THE BACKFILL BEHIND THE MSE WALL WITH PRECAST CONCRETE FACING SHOULD BE GRANULAR AND FREE DRAINING.

THE SOILS ENGINEER SHALL REVIEW THE FILL SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION OF THE WALL.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH."

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING ELEVATIONS GIVEN ON SHEET 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE LOAD OF 240 PSF.

DESIGN THE MSE WALL TO RESIST THE FORCE FROM ALL HORIZONTAL EARTH PRESSURE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS. THIS FORCE MAY BE DISTRIBUTED OVER THE DISTANCE FROM THE BACK OF THE ABUTMENT TO THE BACK OF THE PANELS IN FRONT OF THE ABUTMENT.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

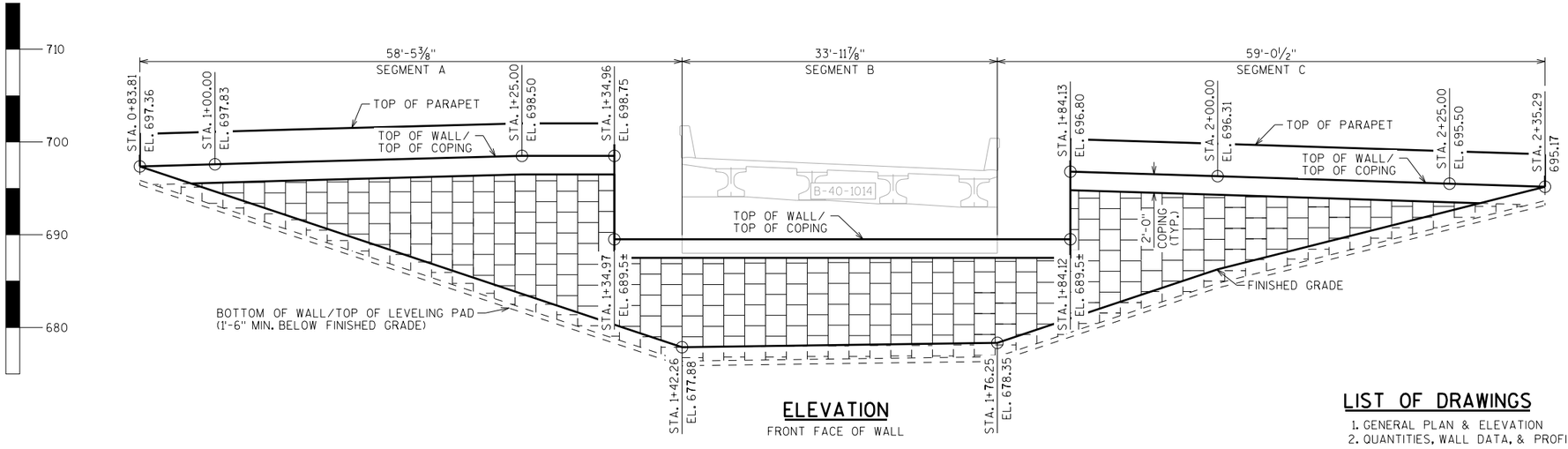
CONCRETE MASONRY: CAST-IN-PLACE COPING ——— f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT: GRADE 60 ——— fy = 60,000 P.S.I.

CURVE DATA

R-40-711 CURVE 1	R-40-711 CURVE 2
P.I. = 0+72.33	P.I. = 2+32.91
Δ = 25°29'27"	Δ = 22°01'09"
D = 17°55'06"	D = 19°40'23"
T = 72.30'	T = 56.70'
L = 142.26'	L = 111.93'
R = 319.76'	R = 291.24'
P.C. = 0+00.00	P.C. = 1+76.25
P.T. = 1+42.26	P.T. = 2+88.17

PRELIMINARY PLAN



ELEVATION

FRONT FACE OF WALL

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. QUANTITIES, WALL DATA, & PROFILE

STRUCTURE DESIGN CONTACTS:

MICAH BROOKS (608) 266-5080

LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-40-711

RETAINING WALL AT S. ABUT. OF B-40-1014

COUNTY	CITY
MILWAUKEE	MILWAUKEE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
MWB	JLR	PJR	MWB

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

PRE_367

I.D. 1228-22-01DE DATE: JAN. 2020

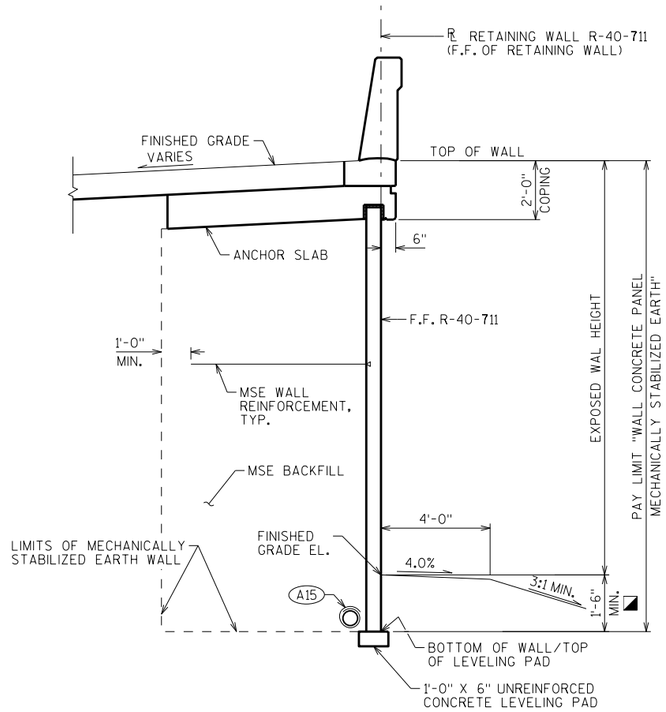
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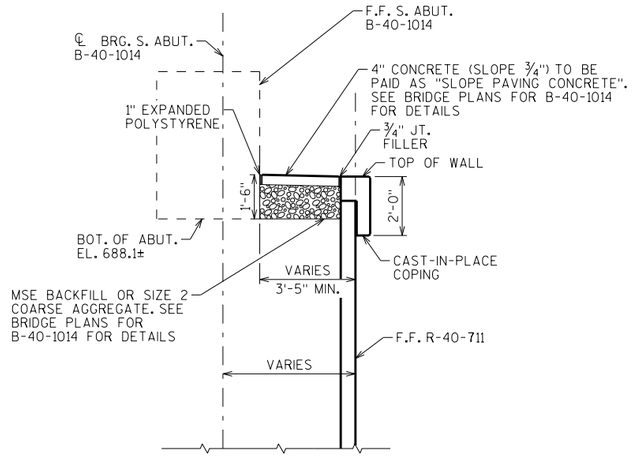
STATE PROJECT NUMBER

1228-22-71



WALL SECTION

SEGMENT A: STA. 0+83.81 TO 1+42.26
SEGMENT C: STA. 1+76.25 TO 2+35.29



WALL SECTION

SEGMENT B: STA. 1+42.26 TO 1+76.25

GEOMETRY TABLE

WALL STATION	RL IH 43 SB OFF RAMP	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
0+83.81	936+04.87	19.76' RT	697.36	697.36	696.16
1+00.00	936+19.31	19.76' RT	697.83	691.97	696.48
1+25.00	936+42.77	19.76' RT	698.50	683.63	683.74
1+34.96	936+52.11	19.76' RT	698.75	680.31	680.44
1+34.97	936+52.12	19.76' RT	689.51	680.31	680.44
1+42.26	936+58.96	19.76' RT	689.51	677.88	677.85
1+76.25	936+40.78	8.76' LT	689.51	678.35	678.37
1+84.12	936+32.66	8.76' LT	689.51	680.98	680.88
1+84.13	936+32.65	8.76' LT	696.80	680.98	680.89
2+00.00	936+16.32	8.76' LT	696.31	686.27	685.76
2+25.00	935+90.57	8.76' LT	695.50	692.57	692.42
2+35.29	935+79.99	8.76' LT	695.17	695.17	694.10

PRELIMINARY PLAN

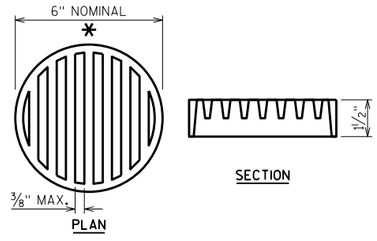
TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	---
**	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	===
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	---
		NON-BID ITEMS		
		PRE-FORMED JOINT FILLER	SIZE	¾"
		NON-BITUMINOUS JOINT FILLER	SIZE	¾"

** QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING, & PARAPET)

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

◪ MINIMUM EMBEDMENT BASED OF SITE SPECIFIC PARAMETERS (1'-6" MINIMUM FOR ALL WALLS ON LEVEL GROUND). FIELD EMBEDMENTS SHALL MEET OR EXCEED THE MINIMUM EMBEDMENT. FIELD EMBEDMENTS BELOW MINIMUM EMBEDMENT SHALL NOT BE INCLUDED IN THE PAY LIMITS.

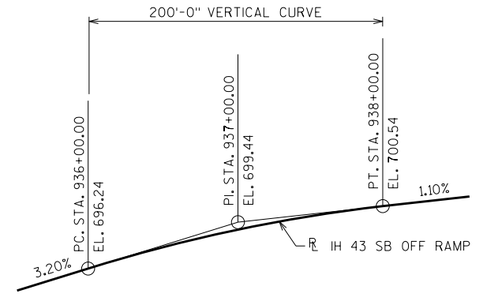


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



PROFILE GRADE LINE - IH 43 SB OFF RAMP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-711

DRAWN BY PJR | PLANS CK'D. MWB

QUANTITIES, WALL DATA, & PROFILE

SHEET 2

PRE_368

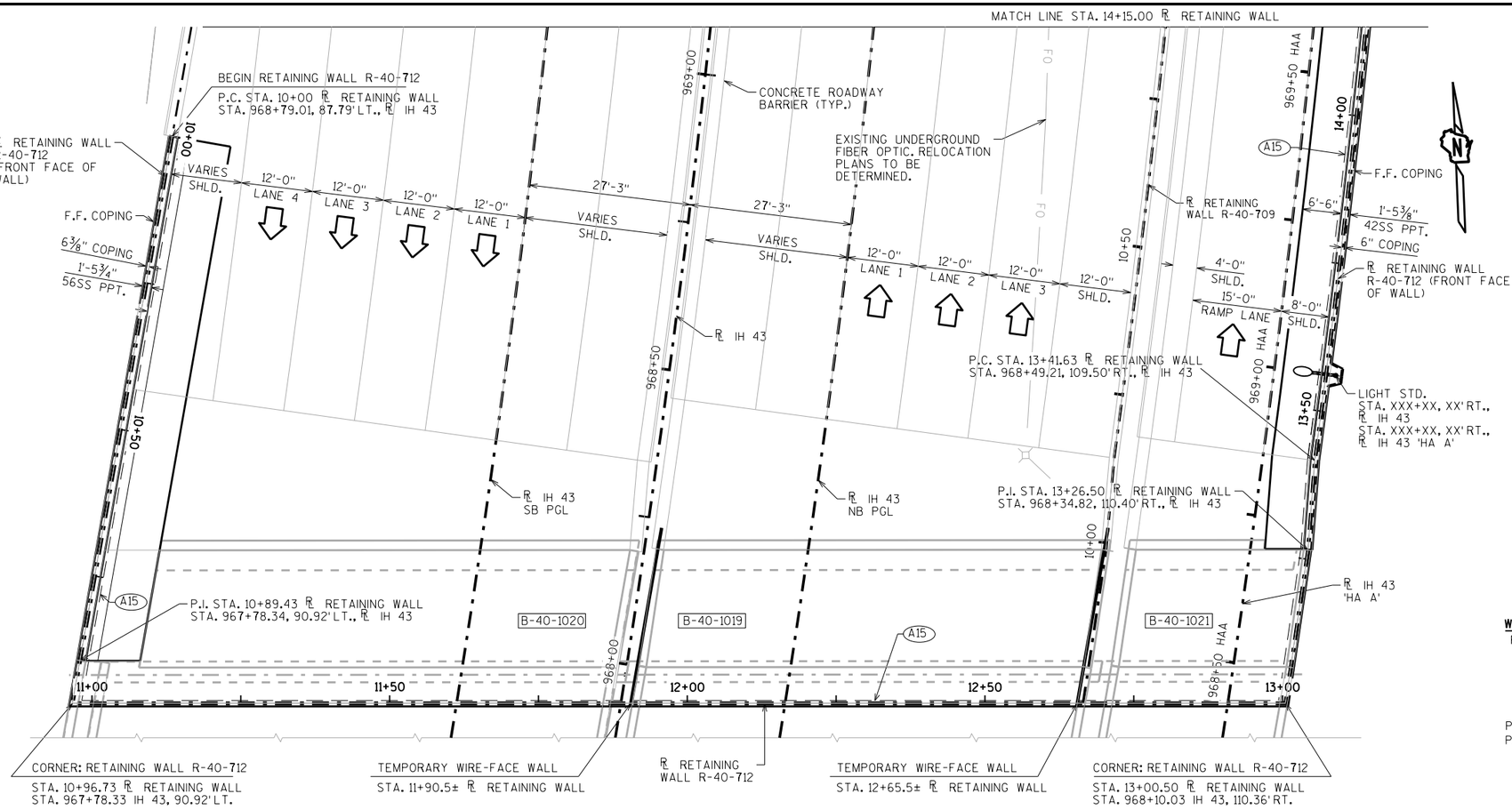
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STATE PROJECT NUMBER

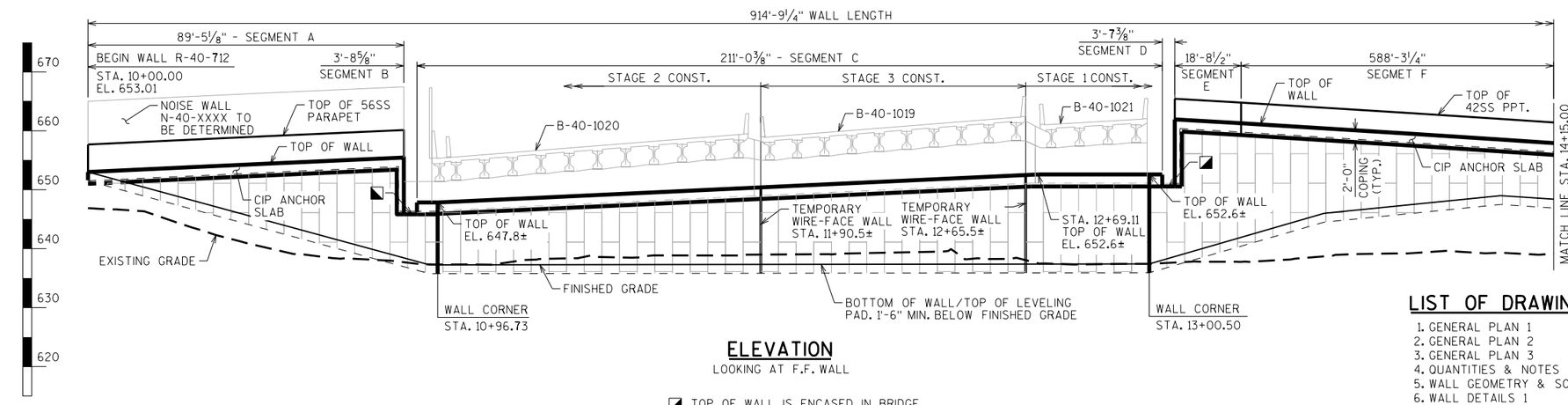
1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL

PRELIMINARY PLAN



ELEVATION

LOOKING AT F.F. WALL

■ TOP OF WALL IS ENCASED IN BRIDGE ABUTMENT. SEE B-40-1020 AND B-40-1021 PLANS FOR DETAILS.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE MSE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND IN THE WALL GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
(ANCHOR SLAB & PARAPET) —— f'c = 4,000 P.S.I.

BAR STEEL REINFORCEMENT —— fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

CURVE DATA

WALL CURVE 1	WALL CURVE 2	℄ IH 43
P.I. = 14+16.49	P.I. = 16+59.14	P.I. = 965+10.79
△ = 3°40'02"	△ = 2°26'03"	△ = 30°04'58"
D = 2°27'01"	D = 0°43'31"	D = 2°32'47"
T = 74.9'	T = 167.9'	T = 604.6'
L = 149.63'	L = 335.63'	L = 1181.35'
R = 2338.19'	R = 7900.75'	R = 2250.00'
P.C. = 13+41.63	P.C. = 14+91.29	P.C. = 959+06.16
P.T. = 14+91.29	P.T. = 18+26.95	P.T. = 970+87.52

TRAFFIC VOLUME

IH 43
ADT = 125,400 (2021)
R.D.S. = 50 M.P.H.

GLENDALE AVE.
ADT = 2,300 (2014)
R.D.S. = 25 M.P.H.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

LIST OF DRAWINGS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. GENERAL PLAN 3
4. QUANTITIES & NOTES
5. WALL GEOMETRY & SOIL DATA
6. WALL DETAILS 1
7. WALL DETAILS 2

STRUCTURE DESIGN CONTACTS:
DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE

STRUCTURE R-40-712

RET. WALL ALONG GLENDALE AVE.

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	MWB	DLM	MWB

GENERAL PLAN 1

SHEET 1 OF 7

PRE_369

I.D. 1228-22-01 DATE: DEC. 2019

SCALE = 11.00

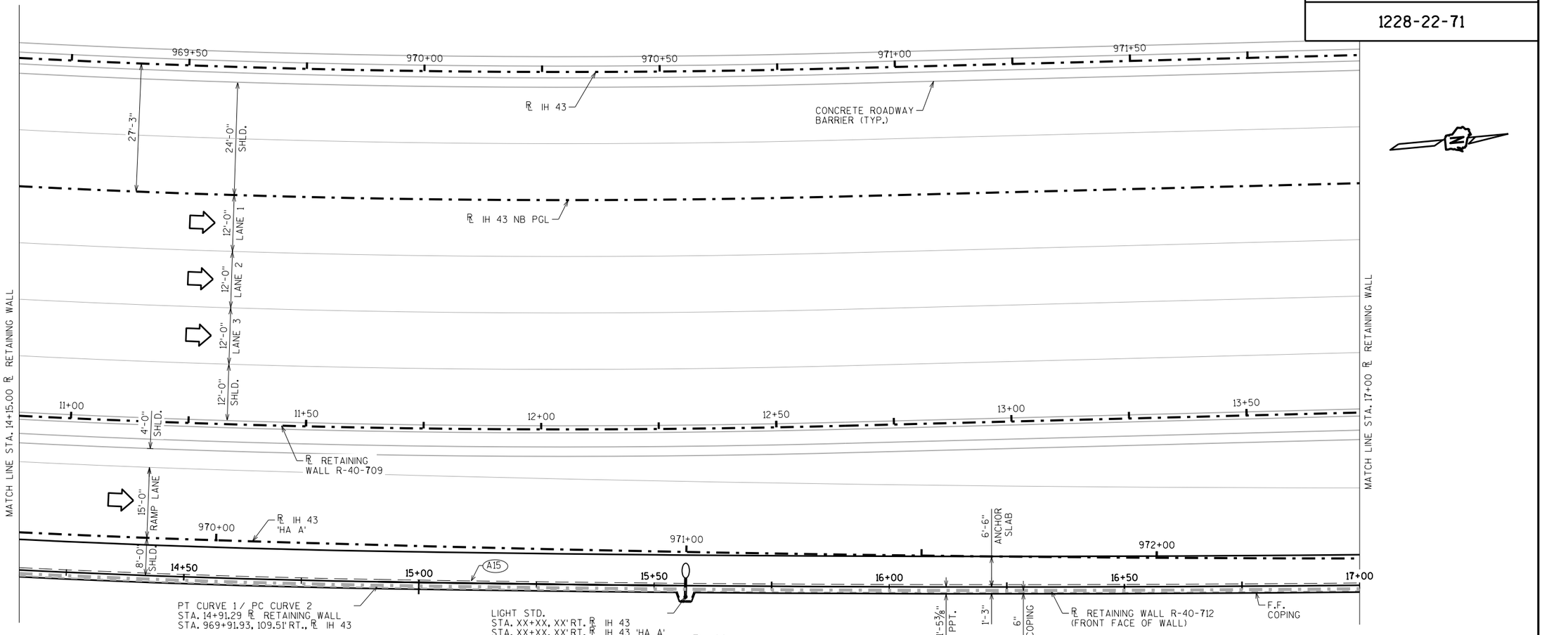
PRELIMINARY

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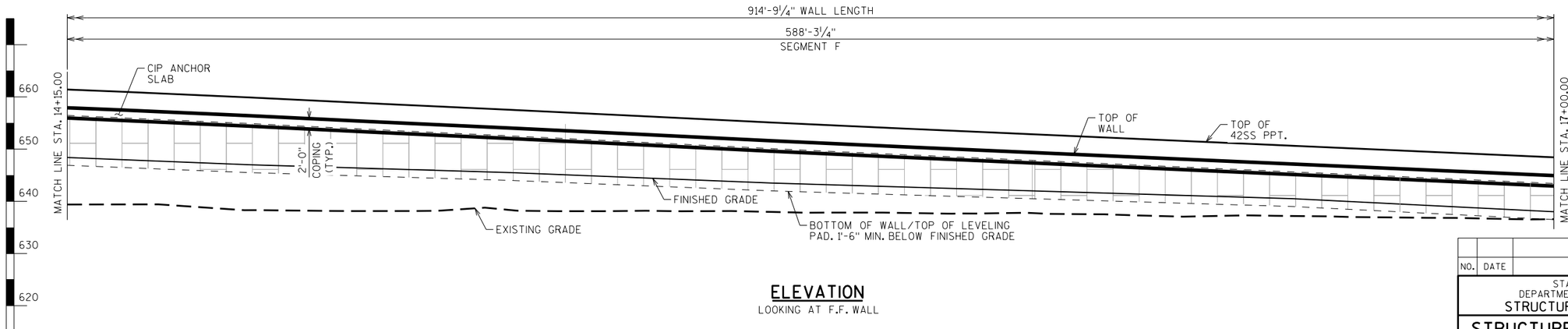
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

DRAWN BY: DLM | PLANS CK'D. MWB

GENERAL PLAN 2

SHEET 2

PRE_370

PRELIMINARY

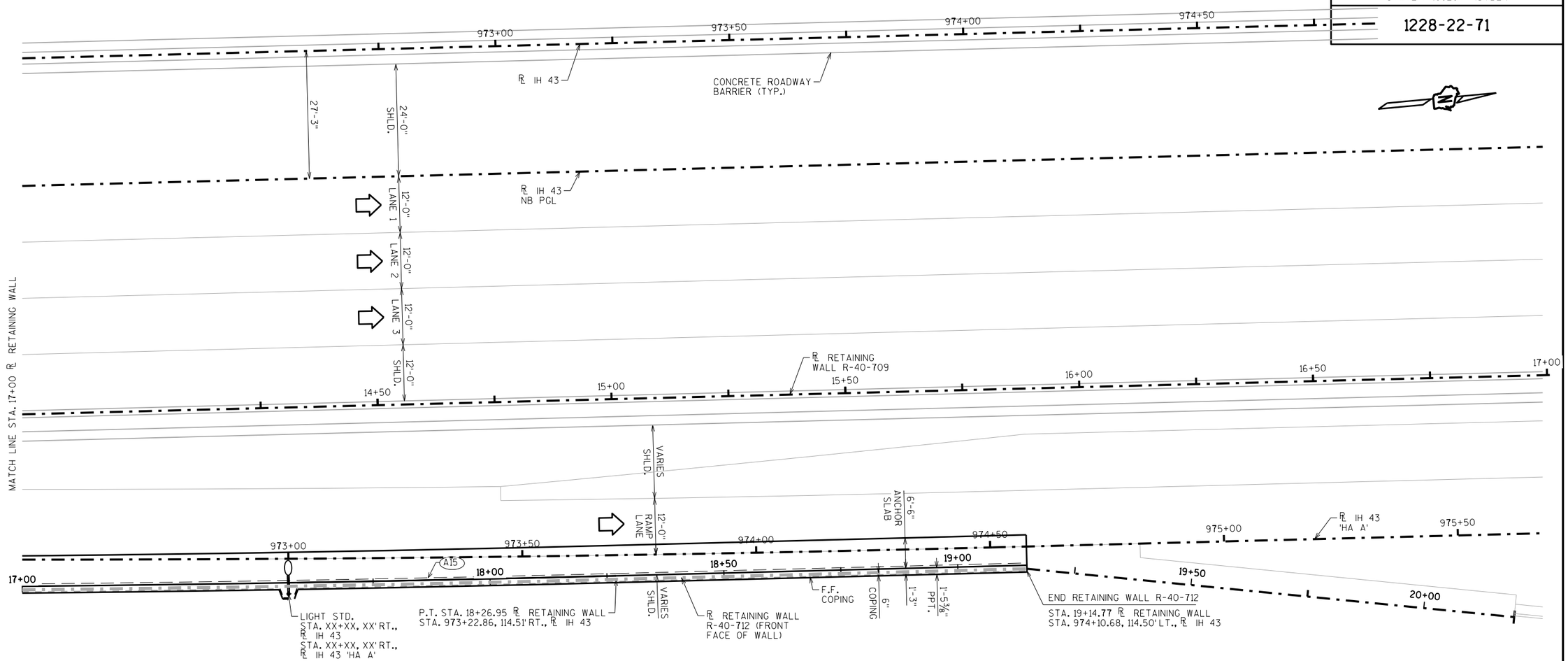
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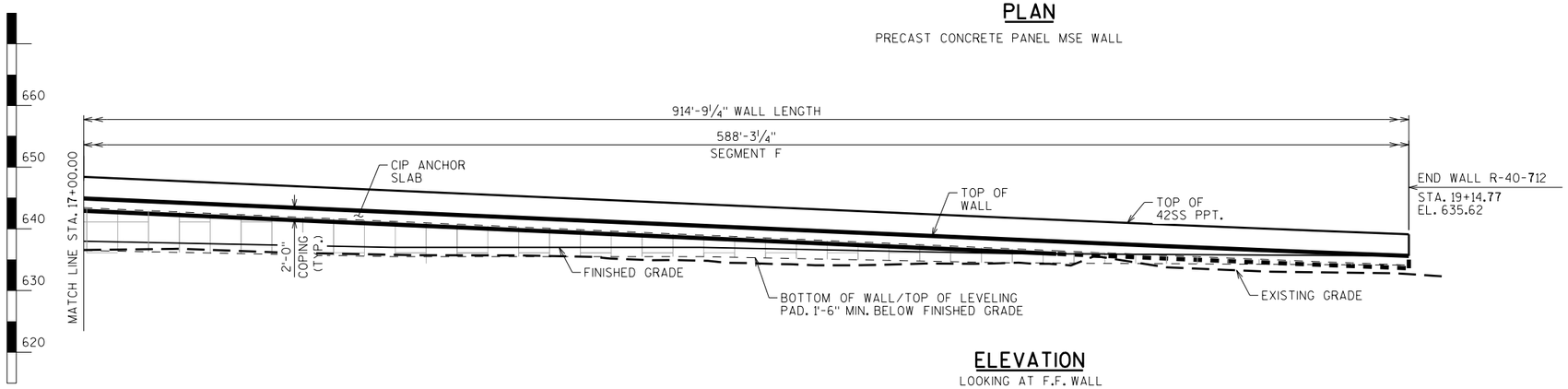
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 3

SHEET 3

PRE_371

PRELIMINARY

SCALE = 11.00

8

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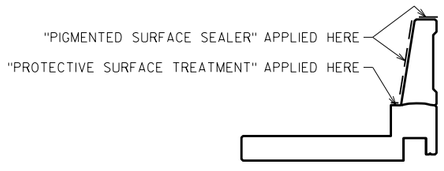
STATE PROJECT NUMBER

1228-22-71

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL	TOTALS
	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS	LS	---	
**	501.1000.S	ICE HOT WEATHER CONCRETING	LB	---	
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	
	502.3210	PIGMENTED SURFACE SEALER	SY	---	
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	---	
**	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	
	532.0751.S	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD	SF	---	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	
	SPV.0060	ANCHOR SLAB INLET COVER SPECIAL	EACH	---	
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	---	
		NON-BID ITEMS			
		NON-BITUMINOUS JOINT SEALER	SIZE	---	1"
		CORK FILLER	SIZE		1"
		EXPANDED POLYSTYRENE	SIZE		1"

** QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING & PARAPET)



SURFACE TREATMENT/SEALER LIMITS DETAIL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

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

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD ⅛" BELOW THE SURFACE OF CONCRETE.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE EPOXY COATED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-40-712.

EXISTING STRUCTURE, B-40-73, IS NOT SHOWN IN THESE PLANS. THE REMOVAL OF THIS STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM AS PART OF THE B-40-1020 BRIDGE QUANTITIES.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-40-712" SHALL BE THE EXISTING GROUNDLINE.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-712" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-40-712 WITH THE NORTH ABUTMENT OF B-40-1019, B-40-1020, AND B-40-1021.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-712".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-712".

QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 5". FOR PANEL THICKNESS DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE TRAFFIC SIDE AND THE TOP OF THE PARAPET

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TRAFFIC SIDE OF THE EXPOSED ANCHOR SLAB SURFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

DRAWN BY DLM | PLANS CK'D. MWB

QUANTITIES & NOTES

SHEET 4

PRE_372

PRELIMINARY

SCALE = 1.00

8

8

STATE PROJECT NUMBER

1228-22-71

GEOMETRY TABLE

WALL STA.	℄ IH 43 STA.	℄ OFFSET TO F.F. OF WALL(FT)	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
10+00.00	968+79.01	87.79' LT	653.01	653.01	646.89
10+25.00	968+53.02	89.02' LT	653.72	648.94	644.47
10+50.00	968+27.00	89.95' LT	654.41	644.87	640.24
10+75.00	968+00.96	90.60' LT	655.08	640.79	638.30
10+89.42	967+85.93	90.84' LT	655.46	638.44	637.71
10+89.43	967+78.34	90.92' LT	648.00	638.44	637.71
10+96.73	967+78.33	90.92' LT	648.00	637.25	637.35
11+00.00	967+78.88	87.70' LT	648.00	637.25	637.32
11+25.00	967+83.07	63.03' LT	648.00	637.27	638.11
11+50.00	967+87.17	38.35' LT	648.00	637.29	638.52
11+75.00	967+91.18	13.66' LT	648.00	637.31	638.85
12+00.00	967+95.10	11.03' RT	648.00	637.34	639.03
12+25.00	967+98.94	35.73' RT	648.00	637.36	639.31
12+50.00	968+02.69	60.43' RT	648.00	637.38	638.27
12+75.00	968+06.36	85.14' RT	648.00	637.40	637.41
13+00.50	968+10.03	110.36' RT	648.00	637.42	637.43
13+05.46	968+14.75	110.34' RT	648.00	638.27	637.58
13+05.47	968+14.76	110.34' RT	662.01	638.28	637.58
13+25.00	968+33.38	110.39' RT	661.34	641.66	637.79
13+50.00	968+57.19	109.50' RT	660.42	646.00	638.70
13+75.00	968+81.03	109.51' RT	659.49	647.50	639.25
14+00.00	969+04.87	109.51' RT	658.52	649.00	639.32
14+25.00	969+28.71	109.51' RT	657.52	648.00	639.40
14+50.00	969+52.55	109.51' RT	656.40	647.00	638.30
14+75.00	969+76.39	109.50' RT	655.19	646.25	638.14
15+00.00	970+00.23	109.51' RT	654.03	645.50	638.32
15+25.00	970+24.07	109.67' RT	652.83	644.50	638.18
15+50.00	970+47.91	110.01' RT	651.60	643.50	637.97
15+75.00	970+71.73	110.54' RT	650.45	642.75	637.78
16+00.00	970+95.94	111.24' RT	649.35	642.00	637.75
16+25.00	971+20.94	111.92' RT	648.24	641.25	637.17
16+50.00	971+45.93	112.52' RT	647.14	640.50	637.18
16+75.00	971+70.92	113.04' RT	646.03	639.25	636.85
17+00.00	971+95.92	113.48' RT	644.93	638.00	636.58
17+25.00	972+20.92	113.84' RT	643.82	637.50	636.43
17+50.00	972+45.91	114.13' RT	642.72	637.00	635.81
17+75.00	972+70.91	114.33' RT	641.61	637.00	635.61
18+00.00	972+95.91	114.45' RT	640.51	637.00	634.85
18+25.00	973+20.91	114.50' RT	639.40	636.50	634.10
18+50.00	973+45.91	114.50' RT	638.30	635.00	634.48
18+75.00	973+70.91	114.50' RT	637.21	635.85	633.84
19+00.00	973+95.91	114.50' RT	636.19	635.71	632.96
19+14.77	974+10.68	114.50' RT	635.62	635.62	632.67

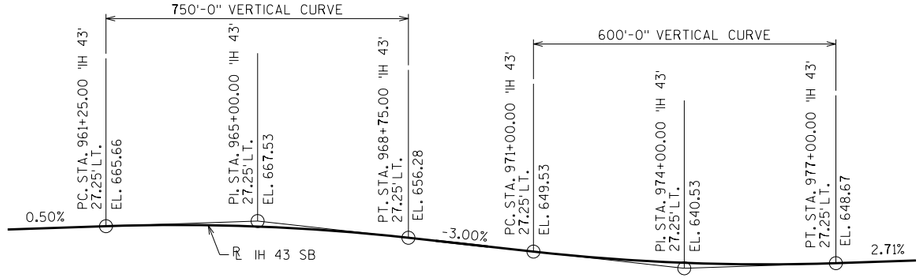
WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
EXPOSED WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
MINIMUM LENGTH OF REINFORCEMENT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	XX.X	XX.X	XX.X	XX.X	XX.X
BORING LOCATION USED	BOR - XX	BOR - XX	BOR - XX	BOR - XX	BOR - XX
APPROXIMATE WALL STATION	XX.X	XX.X	XX.X	XX.X	XX.X
BACK SLOPE ABOVE WALL	XX.X	XX.X	XX.X	XX.X	XX.X
CAPACITY TO DEMAND RATIO (CDR)					
SLIDING (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
ECCENTRICITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
OVERALL STABILITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
BEARING RESISTANCE (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
FACTORED BEARING RESISTANCE (PSF)	XXXX	XXXX	XXXX	XXXX	XXXX

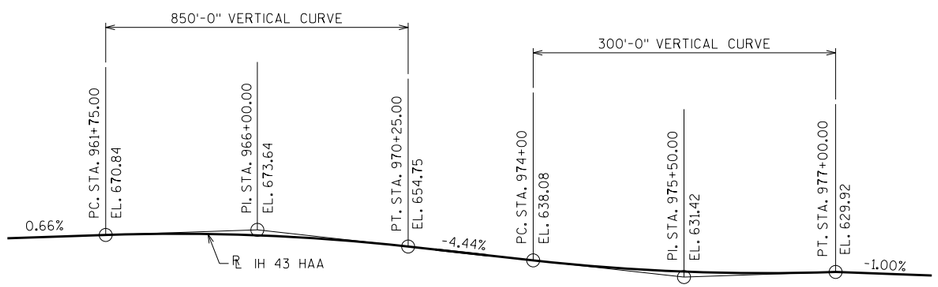
NOTES:
1.
2.
3.
4.
5.

SOIL PARAMETERS

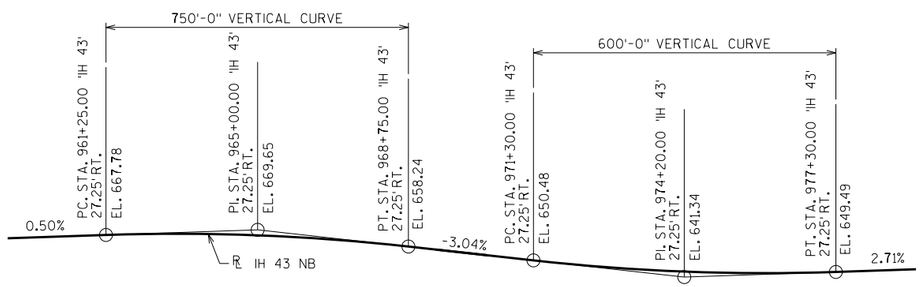
SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE REINFORCING ZONE	30	0	120
BOR-__ - STA. XX+XX.XX - XX' LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
BOR-__ - STA. XX+XX.XX - XX' LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ___.__ TO EL ___.__	XX	XX	XXX



PROFILE GRADE LINE - IH 43 SB



PROFILE GRADE LINE - IH 43 HAA



PROFILE GRADE LINE - IH 43 NB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

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WALL GEOMETRY & SOIL DATA

SHEET 5

PRE_373

PRELIMINARY

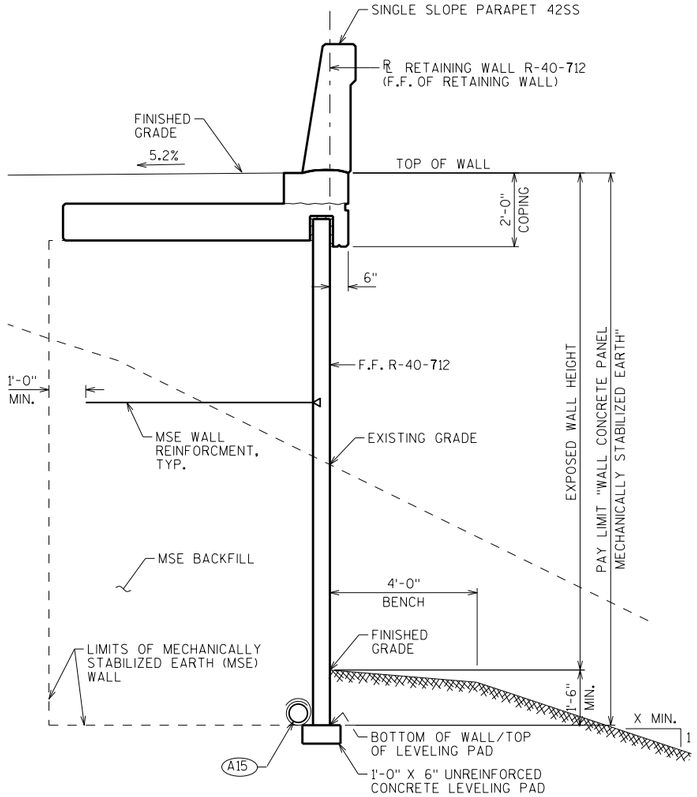
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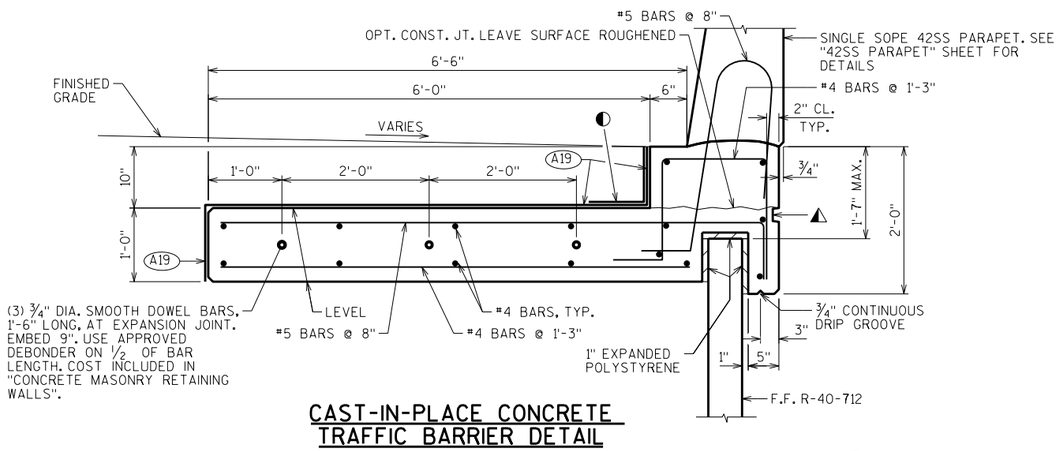
STATE PROJECT NUMBER

1228-22-71



TYPICAL SECTION

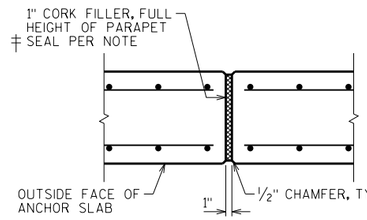
LOOKING EAST
SEGMENT XX: STA. XX+XXXX TO XX+XXXXX
SEGMENT XX: STA. XX+XXXX TO XX+XXXX



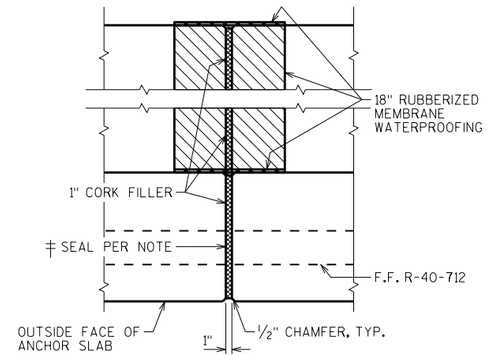
CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

◭ PROVIDE RUSTICATION IF OPT. CONST. JT. IS USED.



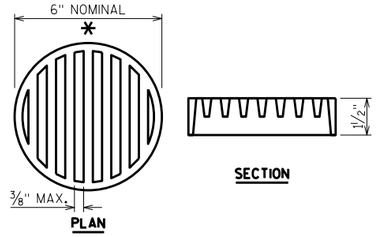
TRAFFIC BARRIER EXPANSION JOINT DETAIL



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

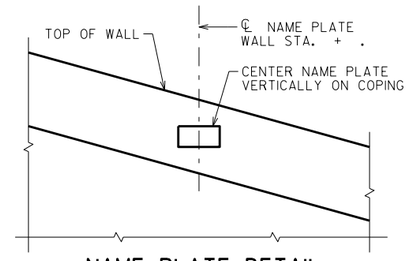


RODENT SHIELD DETAIL

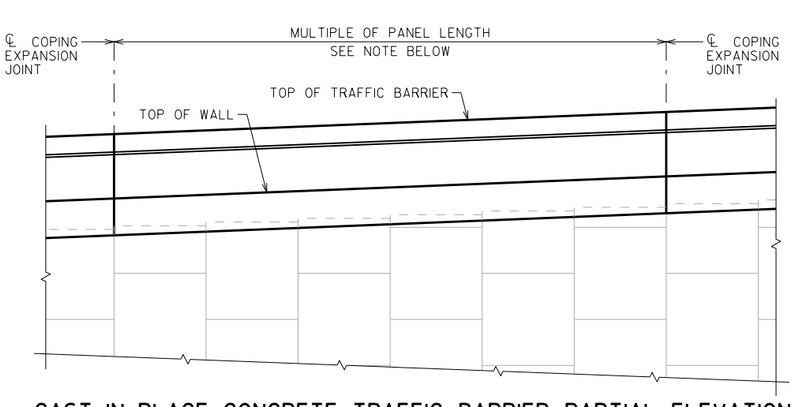
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

DRAWN BY DLM | PLANS CK'D. MWB

WALL DETAILS 1

SHEET 6

PRE_374

PRELIMINARY

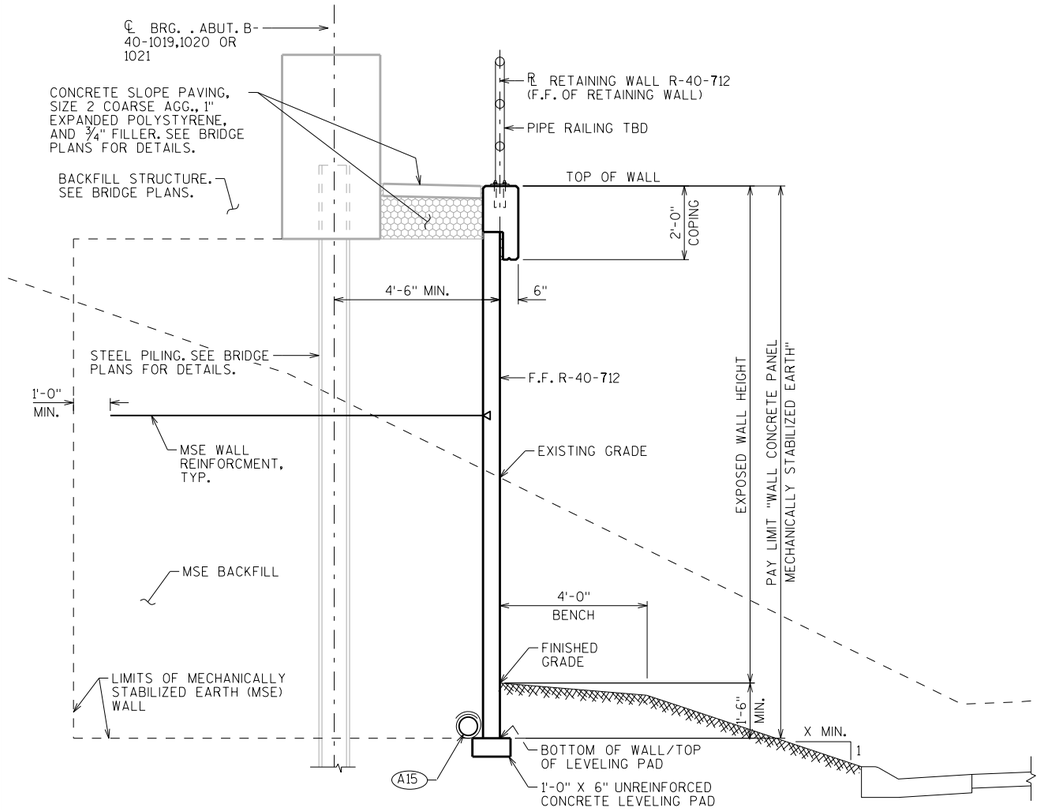
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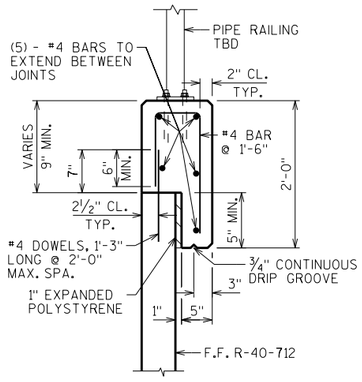
STATE PROJECT NUMBER

1228-22-71

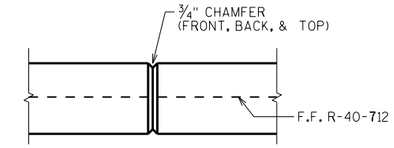


TYPICAL SECTION AT ABUTMENT

LOOKING EAST
STA. XX+XXXX TO XX+XXXX
STA. XX+XXXX TO XX+XXXX

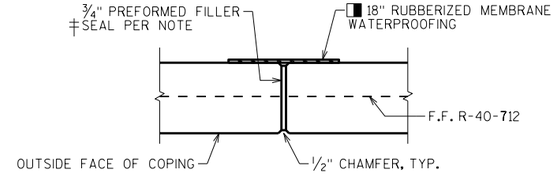


CAST-IN-PLACE CONCRETE COPING DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

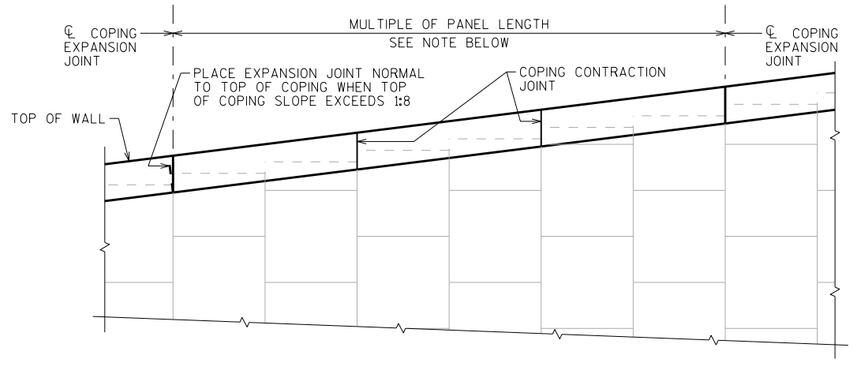


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-712

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WALL DETAILS 2

SHEET 7

PRE_375

SCALE = 2.00

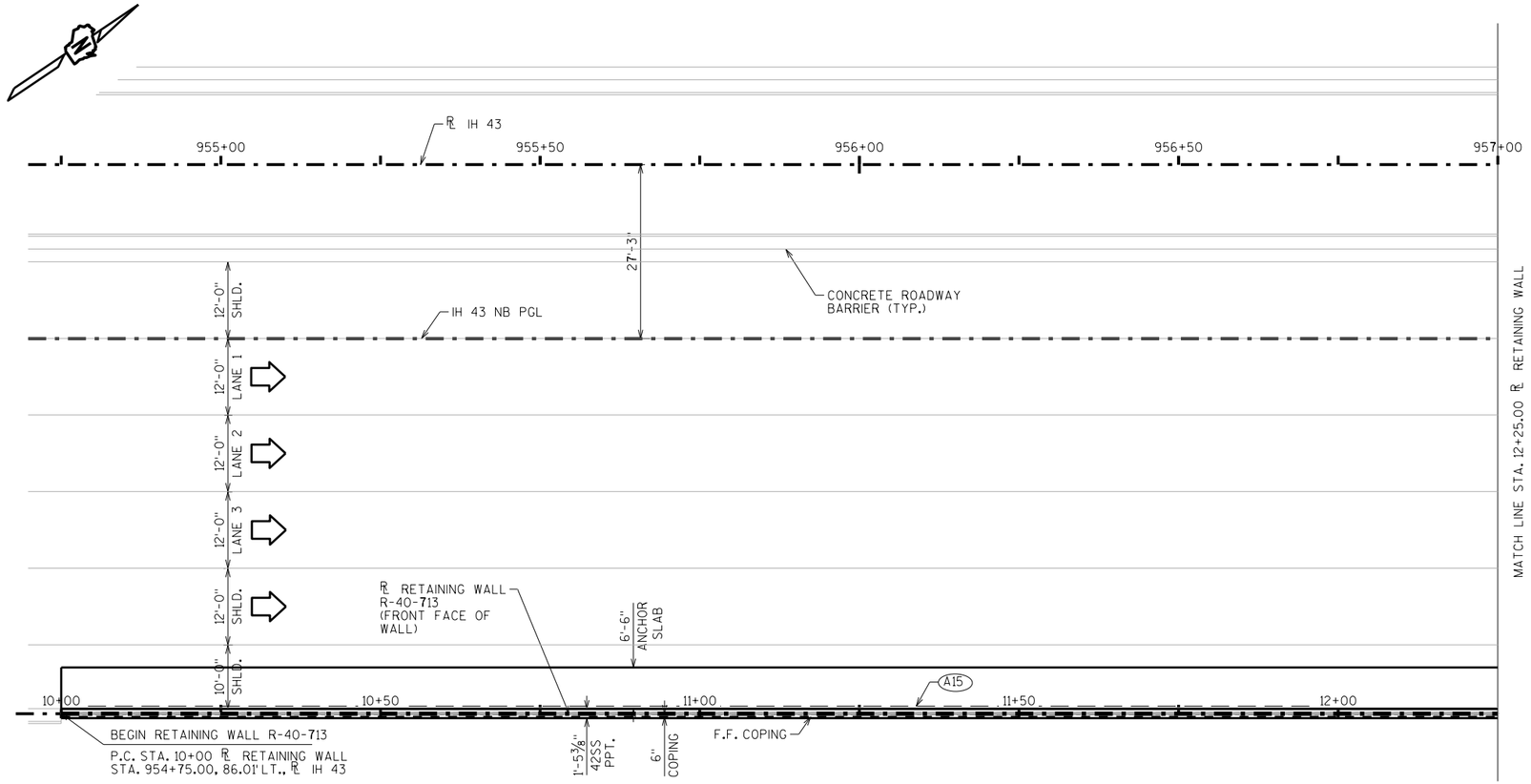
PRELIMINARY

8

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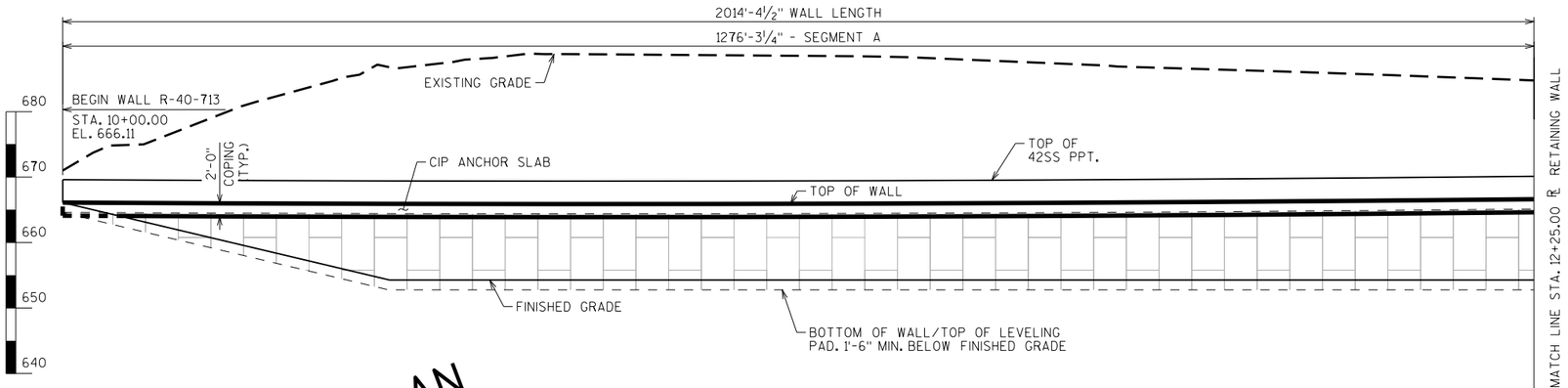
STATE PROJECT NUMBER

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PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

PRELIMINARY PLAN

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE MSE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND IN THE WALL GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
(ANCHOR SLAB & PARAPET) —— f'c = 4,000 P.S.I.

BAR STEEL REINFORCEMENT —— fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

CURVE DATA

WALL CURVE 1	WALL CURVE 2	WALL CURVE 3	WALL CURVE 4	WALL CURVE 5
P.I. = 15+08.25	P.I. = 16+25.89	P.I. = 19+39.31	P.I. = 22+31.83	P.I. = 28+07.49
△ = 3°46'48"	△ = 2°19'37"	△ = 17°29'19"	△ = 1°05'04"	△ = 10°59'22"
D = 2°27'10"	D = 2°51'57"	D = 3°13'49"	D = 2°15'56"	D = 2°38'52"
T = 77.1'	T = 40.6'	T = 272.8'	T = 23.9'	T = 208.1'
L = 154.12'	L = 81.20'	L = 541.41'	L = 47.87'	L = 415.02'
R = 2336.00'	R = 1999.24'	R = 1773.76'	R = 2529.10'	R = 2163.80'
P.C. = 14+31.16	P.C. = 15+85.28	P.C. = 16+66.48	P.C. = 22+07.89	P.C. = 25+99.35
P.T. = 15+85.28	P.T. = 16+66.48	P.T. = 22+07.89	P.T. = 22+55.76	P.T. = 30+14.37

℄ IH 43
P.I. = 965+10.79
△ = 30°04'58"
D = 2°32'47"
T = 604.6'
L = 1181.35'
R = 2250.00'
P.C. = 959+06.16
P.T. = 970+87.52

TRAFFIC VOLUME

IH 43
ADT = 125,400 (2021)
R.D.S. = 50 M.P.H.

GLENDALE AVE.
ADT = 2,300 (2014)
R.D.S. = 25 M.P.H.

STRUCTURE DESIGN CONTACTS:

DAN MONROE	(608) 266-8490
LAURA SHADEWALD	(608) 267-9592

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

LIST OF DRAWINGS

1. GENERAL PLAN 1
2. GENERAL PLAN 2
3. GENERAL PLAN 3
4. GENERAL PLAN 4
5. GENERAL PLAN 5
6. GENERAL PLAN 6
7. GENERAL PLAN 7
8. GENERAL PLAN 8
9. QUANTITIES, NOTES & PROFILE
10. WALL GEOMETRY & SOIL DATA
11. WALL DETAILS 1
12. WALL DETAILS 2

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-40-713

RET. WALL ALONG GLENDALE AVE.

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DLM	MWB	DLM	MWB

GENERAL PLAN 1

SHEET 1 OF 12

PRE_376

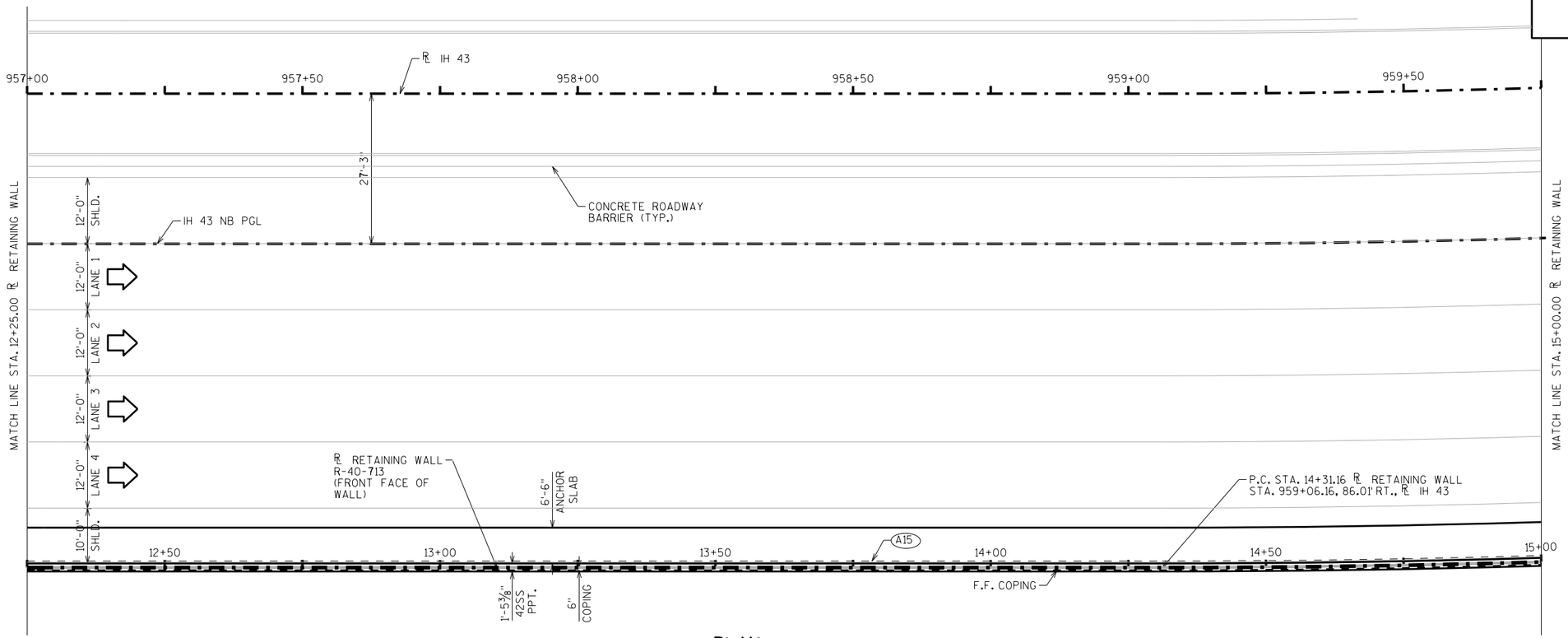
I.D. 1228-22-01J DATE: DEC. 2019

SCALE = 11.00

PRELIMINARY

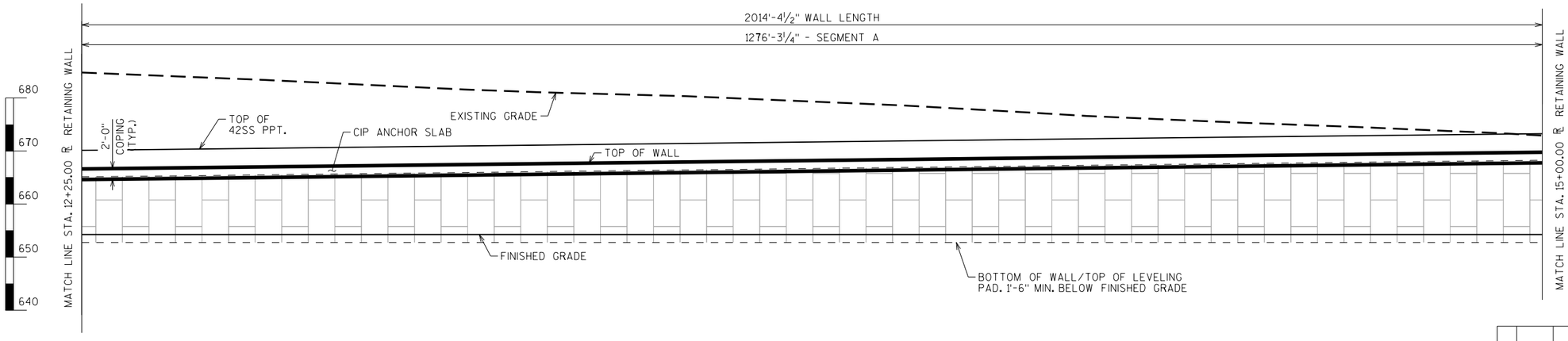
STATE PROJECT NUMBER

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PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 2

SHEET 2

PRE_377

PRELIMINARY

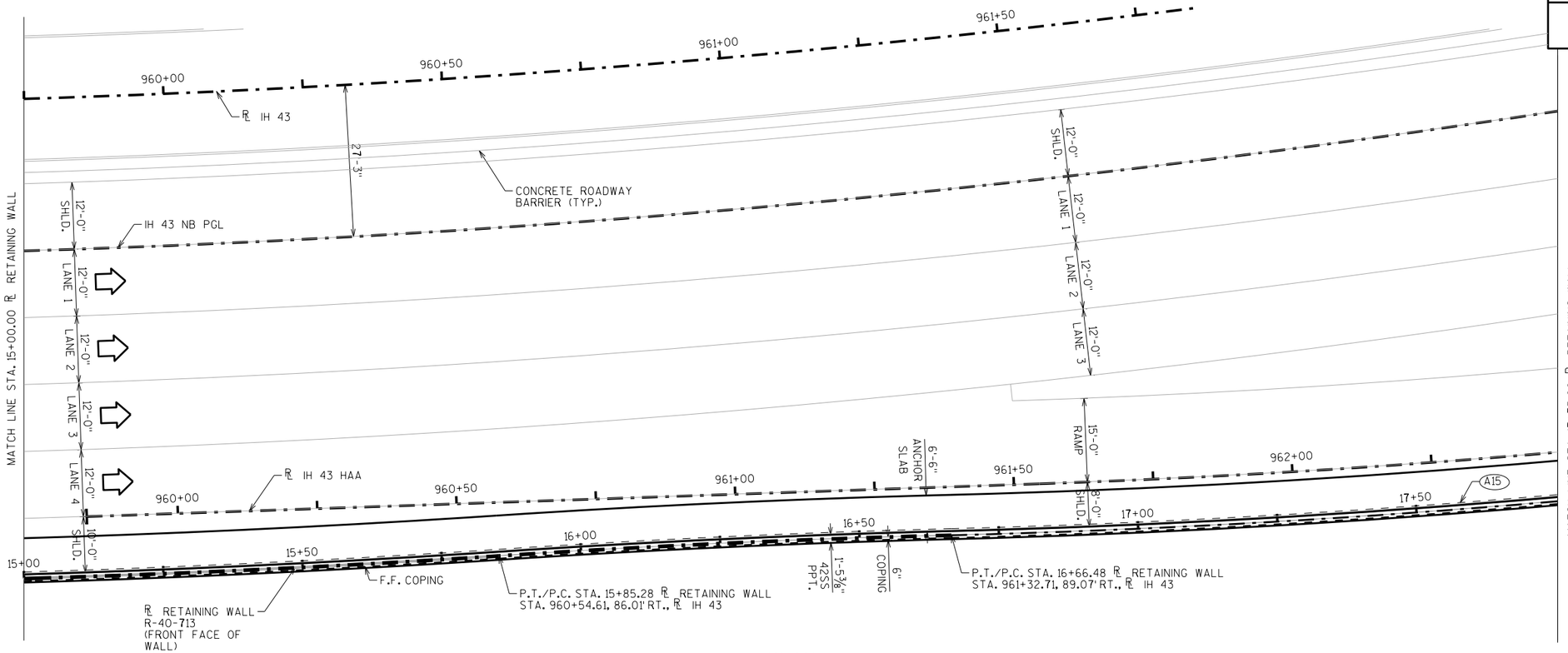
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8

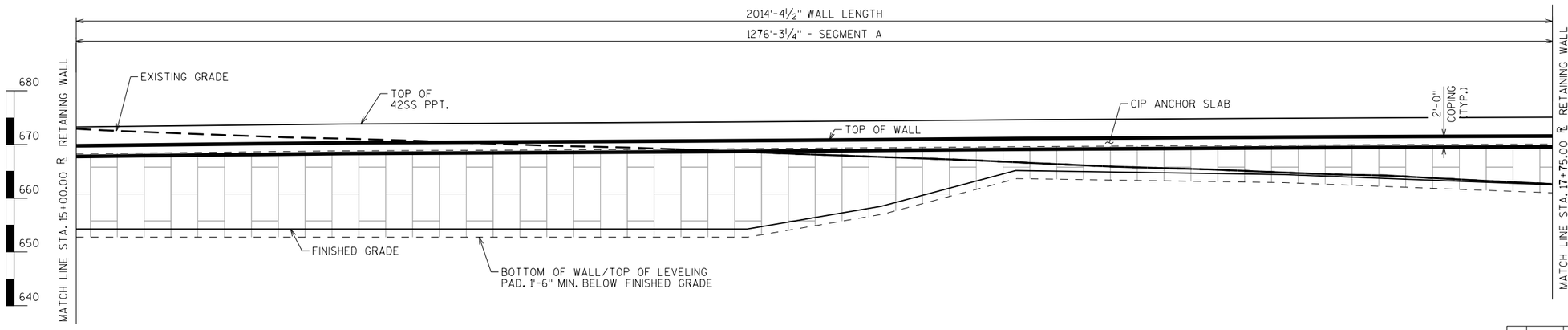
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 3

SHEET 3

PRE_378

PRELIMINARY

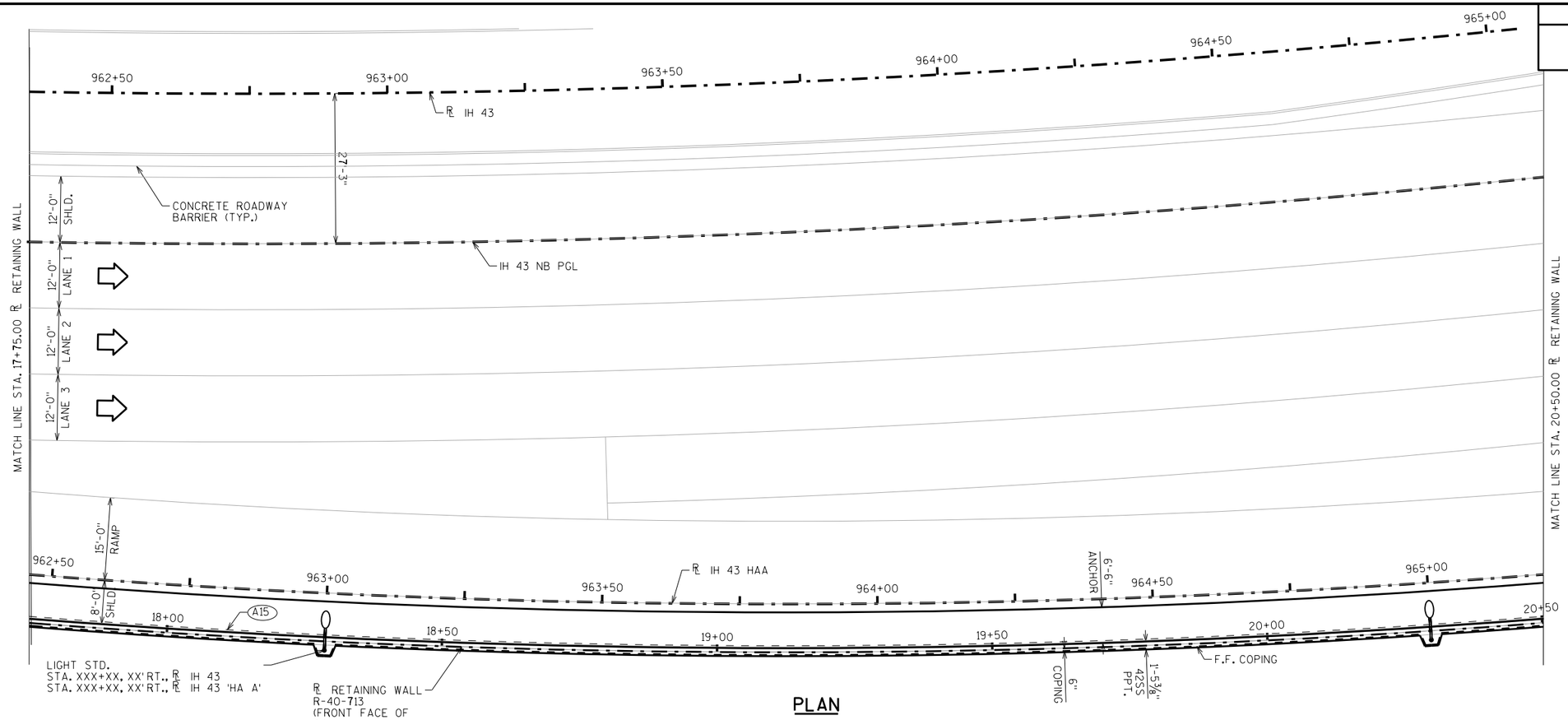
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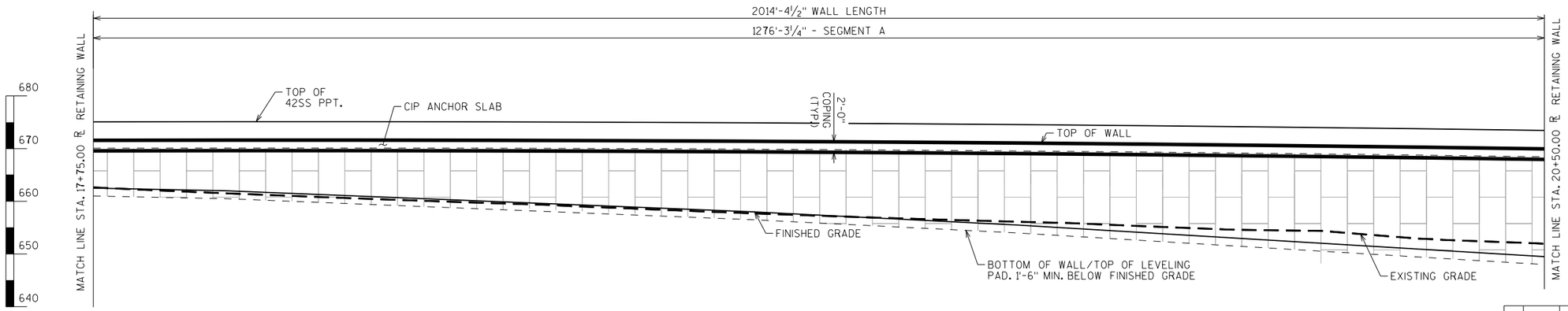
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 4

SHEET 4

PRE_379

PRELIMINARY

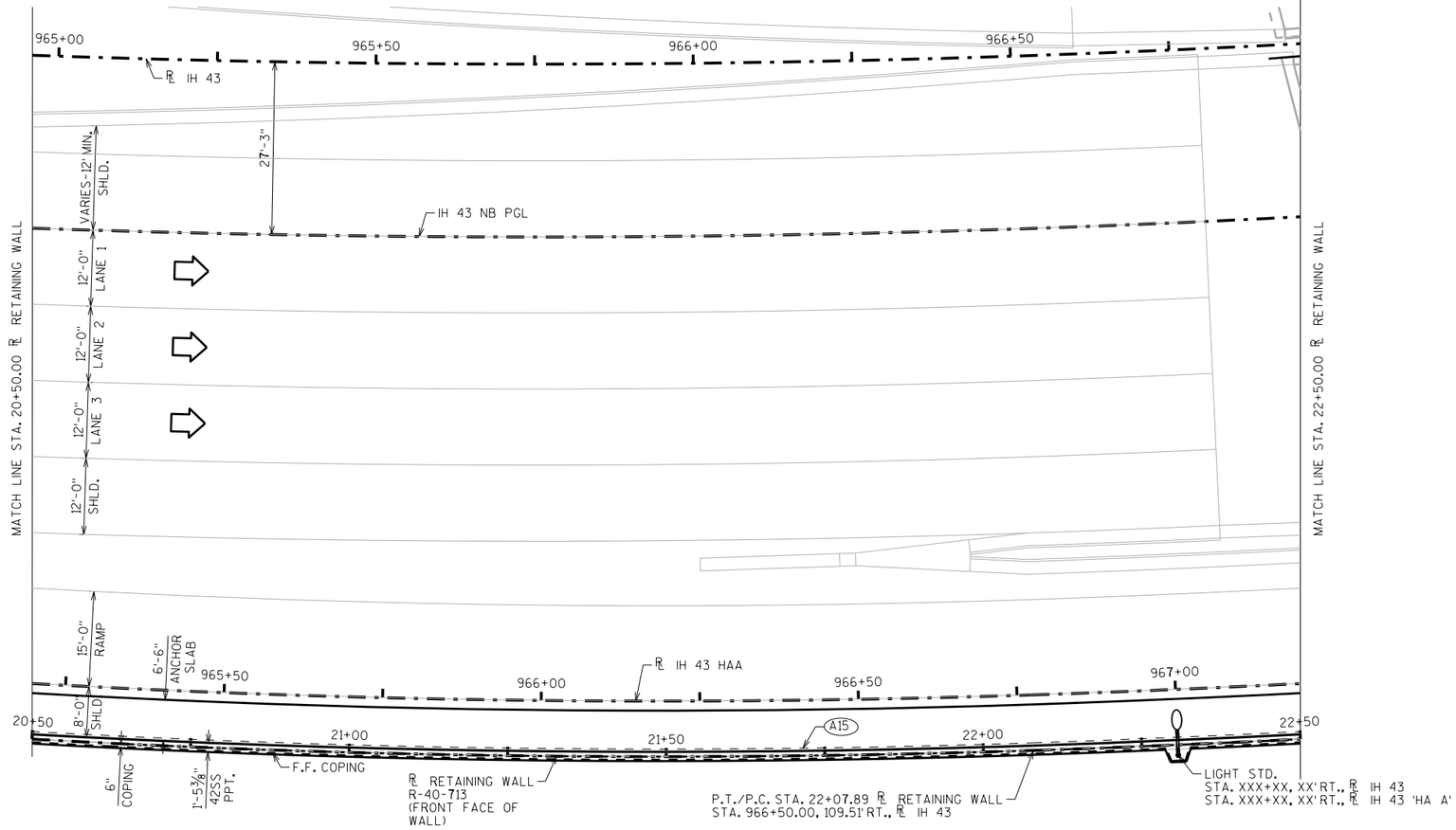
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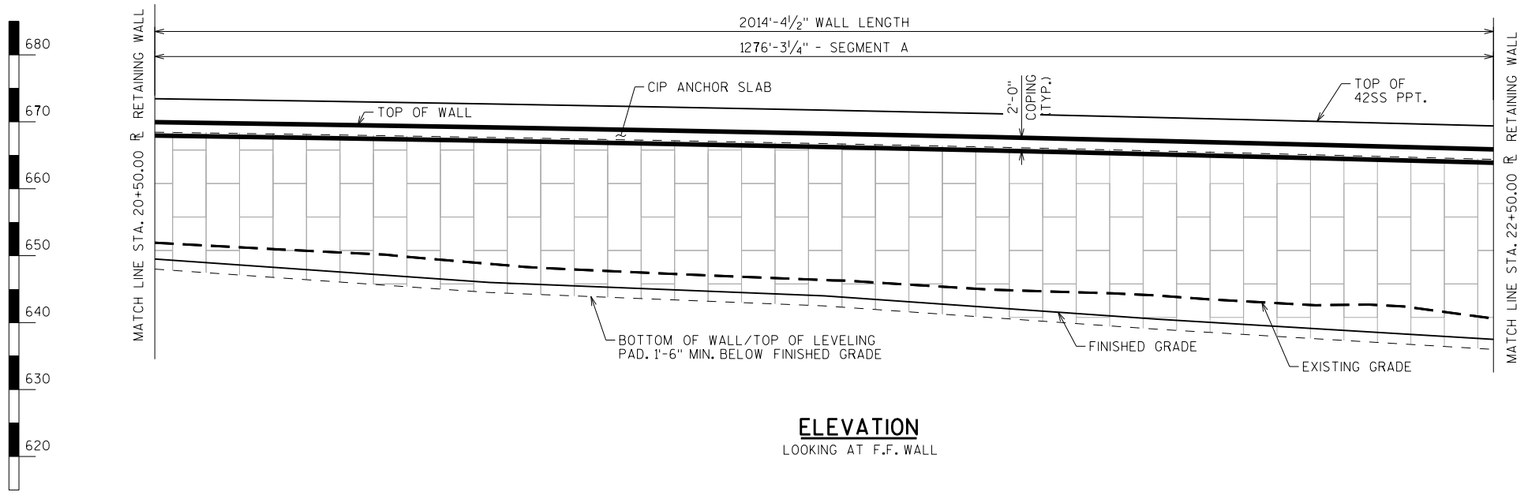
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 5

SHEET 5

PRE_380

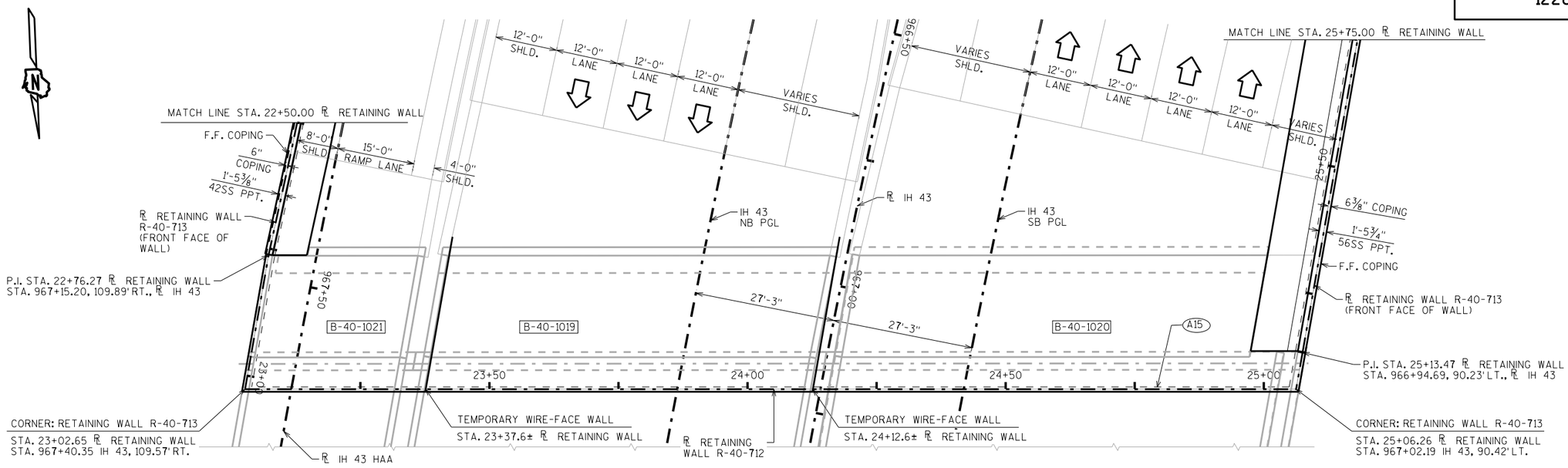
PRELIMINARY

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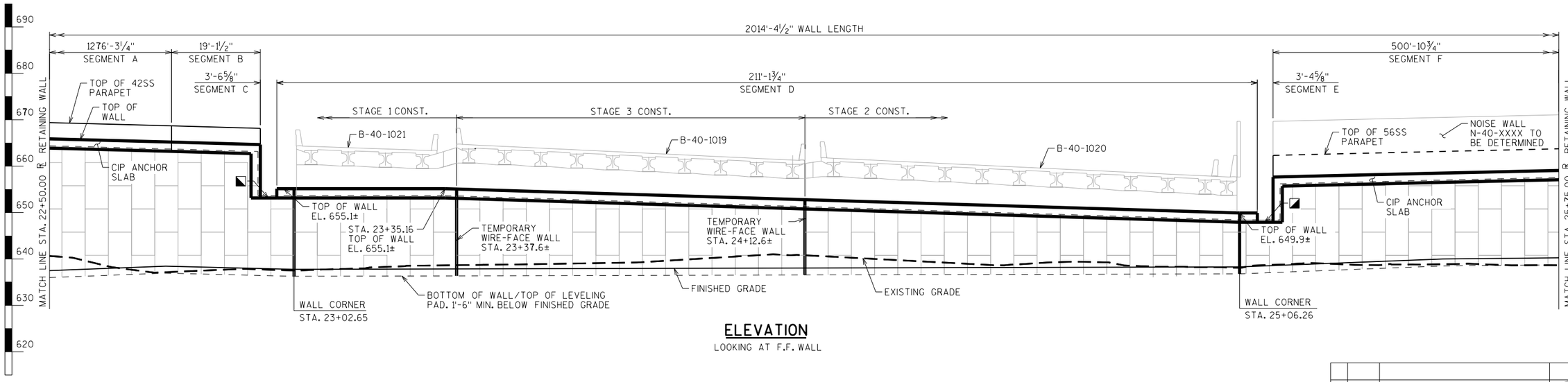
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STATE PROJECT NUMBER
1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

◪ TOP OF WALL IS ENCASED IN BRIDGE ABUTMENT. SEE B-40-1020 AND B-40-1021 PLANS FOR DETAILS.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 6

SHEET 6

PRE_381

PRELIMINARY

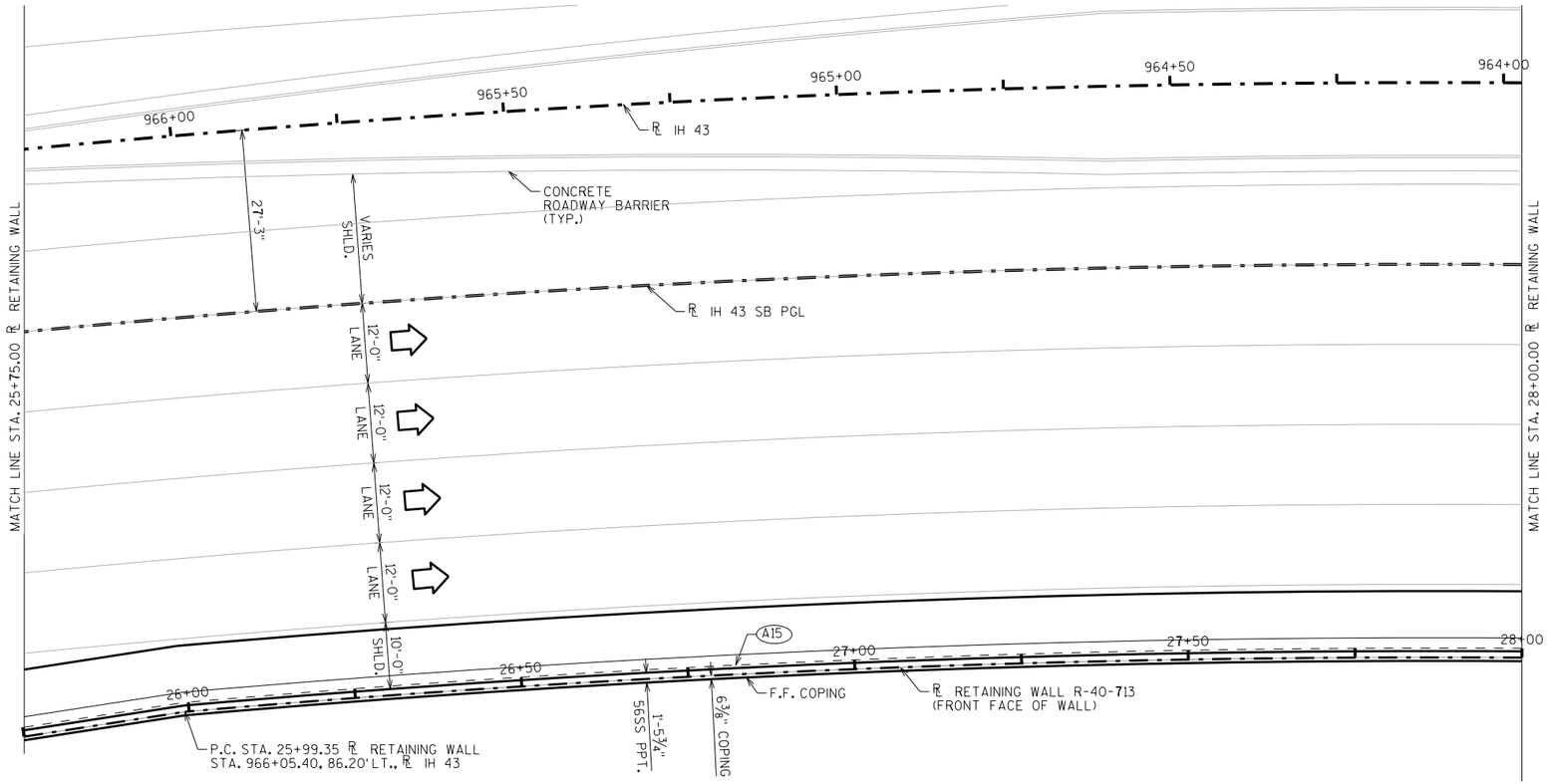
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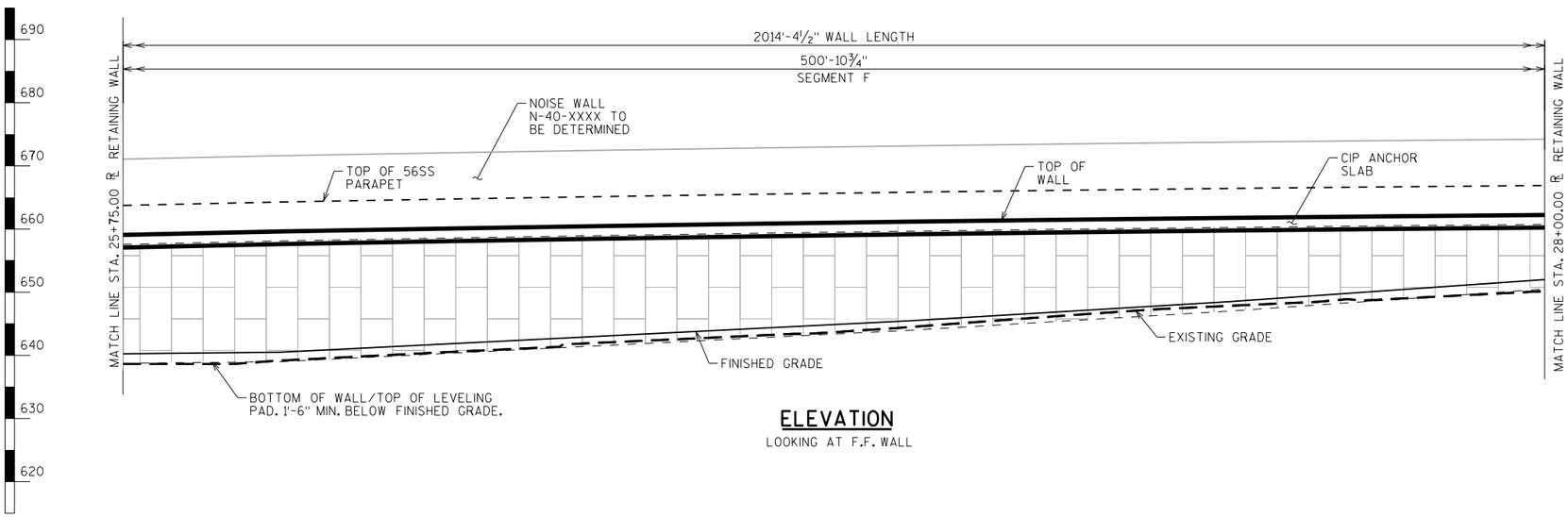
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 7

SHEET 7

PRE_382

PRELIMINARY

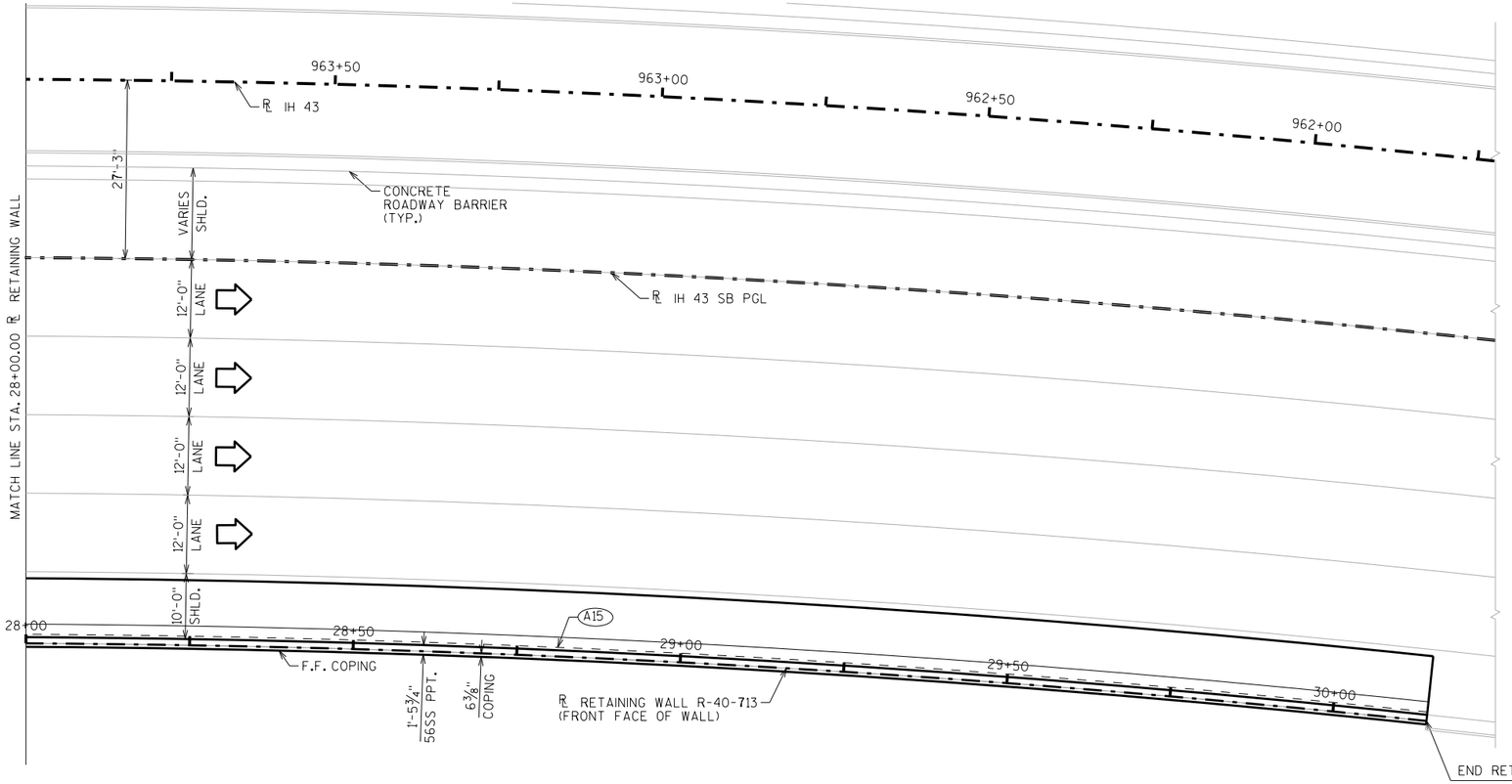
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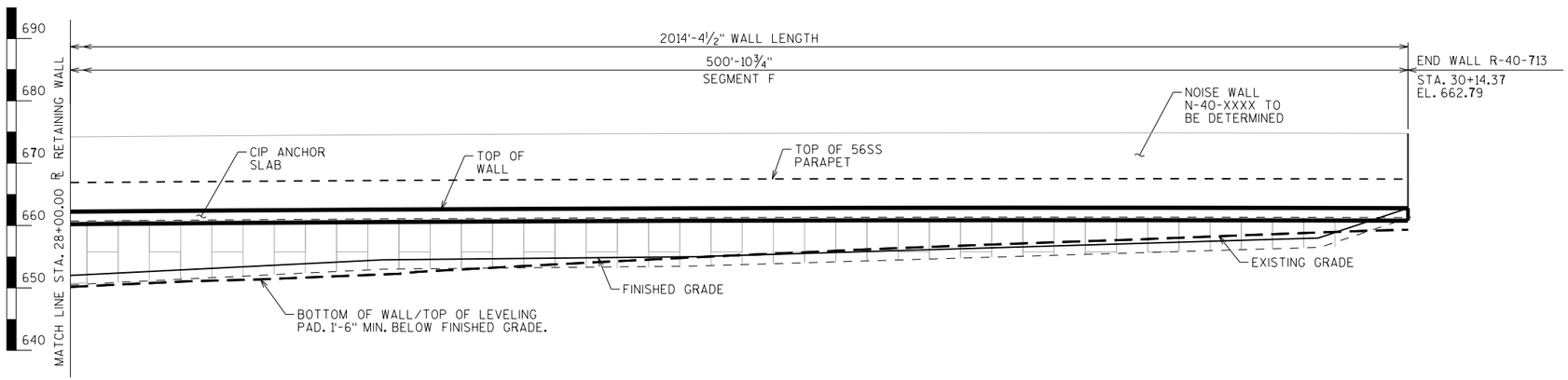
STATE PROJECT NUMBER

1228-22-71



PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING AT F.F. WALL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

GENERAL PLAN 8

SHEET 8

PRE_383

PRELIMINARY

SCALE = 11.00

8

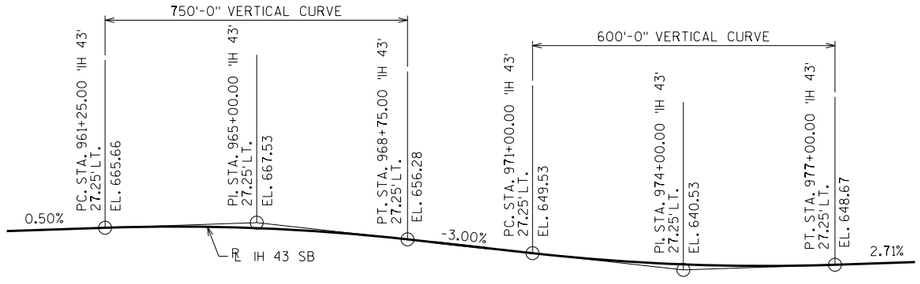
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STATE PROJECT NUMBER
1228-22-71

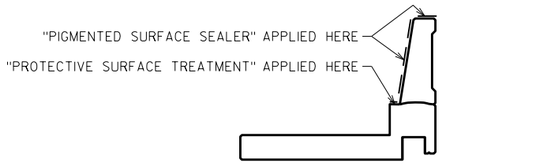
TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL	TOTALS
	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-40-713	LS	---	
**	501.1000.S	ICE HOT WEATHER CONCRETING	LB	---	
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	
	502.3210	PIGMENTED SURFACE SEALER	SY	---	
**	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	---	
**	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	
	532.0751.S	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD	SF	---	
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	
	SPV.0060	ANCHOR SLAB INLET COVER SPECIAL	EACH	---	
	SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-713	SF	---	
		NON-BID ITEMS			
		NON-BITUMINOUS JOINT SEALER	SIZE	---	1"
		CORK FILLER	SIZE		1"
		EXPANDED POLYSTYRENE	SIZE		1"

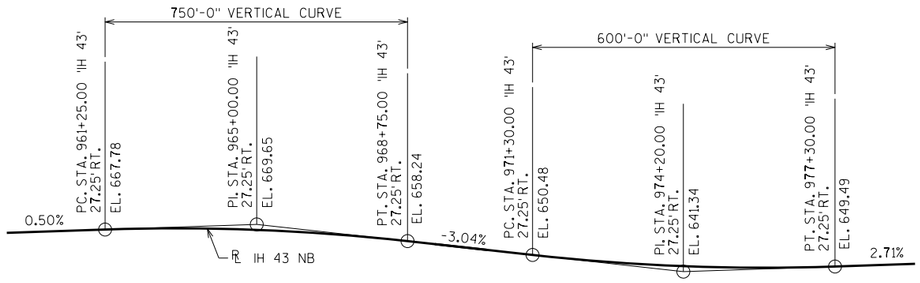
** QUANTITY INCLUDES: VEHICLE BARRIER (ANCHOR SLAB, COPING & PARAPET)



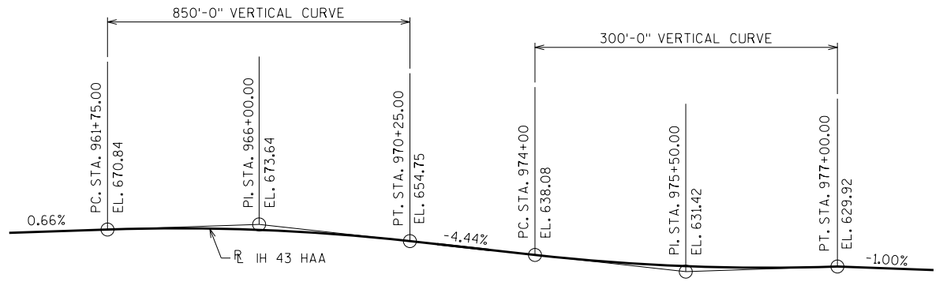
PROFILE GRADE LINE - IH 43 SB



SURFACE TREATMENT/SEALER LIMITS DETAIL



PROFILE GRADE LINE - IH 43 NB



PROFILE GRADE LINE - IH 43 HAA

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL ALL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$" UNLESS OTHERWISE NOTED.

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

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD $\frac{1}{8}$" BELOW THE SURFACE OF CONCRETE.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE EPOXY COATED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-40-713.

EXISTING STRUCTURE, B-40-73, IS NOT SHOWN IN THESE PLANS. THE REMOVAL OF THIS STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM AS PART OF THE B-40-1020 BRIDGE QUANTITIES.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-40-713" SHALL BE THE EXISTING GROUNDLINE.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-713" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

COORDINATE THE CONSTRUCTION OF RETAINING WALLS R-40-713 WITH THE SOUTH ABUTMENT OF B-40-1019, B-40-1020, AND B-40-1021.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-713".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-40-713".

QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 5". FOR PANEL THICKNESS DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE TRAFFIC SIDE AND THE TOP OF THE PARAPET

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TRAFFIC SIDE OF THE EXPOSED ANCHOR SLAB SURFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

QUANTITIES, NOTES & PROFILE

SHEET 9

PRE_384

PRELIMINARY

SCALE = 1.00

8

8

GEOMETRY TABLE

WALL STA.	℄ IH 43 STA.	℄ OFFSET TO F.F. OF WALL(FT)	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
10+00.00	954+75.00	86.01' RT	666.11	666.11	671.01
10+25.00	955+00.00	86.01' RT	665.99	660.19	679.93
10+50.00	955+25.00	86.01' RT	665.92	654.27	686.79
10+75.00	955+50.00	86.01' RT	665.89	654.27	688.82
11+00.00	955+75.00	86.01' RT	665.90	654.27	688.64
11+25.00	956+00.00	86.01' RT	665.96	654.27	688.42
11+50.00	956+25.00	86.01' RT	666.06	654.27	687.46
11+75.00	956+50.00	86.01' RT	666.21	654.27	686.50
12+00.00	956+75.00	86.01' RT	666.39	654.27	685.70
12+25.00	957+00.00	86.01' RT	666.63	654.27	684.78
12+50.00	957+25.00	86.01' RT	666.90	654.27	683.77
12+75.00	957+50.00	86.01' RT	667.19	654.27	682.64
13+00.00	957+75.00	86.01' RT	667.48	654.27	681.48
13+25.00	958+00.00	86.01' RT	667.77	654.27	680.70
13+50.00	958+25.00	86.01' RT	668.06	654.27	679.85
13+75.00	958+50.00	86.01' RT	668.35	654.27	678.78
14+00.00	958+75.00	86.01' RT	668.64	654.27	677.44
14+25.00	959+00.00	86.01' RT	668.93	654.27	676.12
14+50.00	959+24.31	86.01' RT	669.21	654.27	675.08
14+75.00	959+48.39	86.01' RT	669.49	654.27	674.09
15+00.00	959+72.47	86.01' RT	669.76	654.27	672.91
15+25.00	959+96.55	86.01' RT	670.04	654.27	671.85
15+50.00	960+20.62	86.01' RT	670.31	654.27	671.08
15+75.00	960+44.70	86.01' RT	670.43	654.27	670.24
16+00.00	960+68.78	86.10' RT	670.56	654.27	669.50
16+25.00	960+92.85	86.74' RT	670.71	654.27	668.61
16+50.00	961+16.89	87.95' RT	670.90	658.50	667.67
16+75.00	961+40.88	89.70' RT	671.10	665.15	666.69
17+00.00	961+64.85	91.51' RT	671.24	664.78	665.67
17+25.00	961+88.81	93.24' RT	671.38	664.40	664.78
17+50.00	962+12.75	94.87' RT	671.49	663.45	663.90
17+75.00	962+36.68	96.43' RT	671.57	662.50	662.63
18+00.00	962+60.61	97.89' RT	671.60	662.00	661.52
18+25.00	962+84.52	99.27' RT	671.61	661.00	660.55
18+50.00	963+08.43	100.56' RT	671.57	660.00	659.67
18+75.00	963+32.32	101.77' RT	671.50	659.00	658.72
19+00.00	963+56.21	102.88' RT	671.39	658.00	657.71
19+25.00	963+80.09	103.92' RT	671.24	656.75	656.84
19+50.00	964+03.97	104.86' RT	671.06	655.50	656.12
19+75.00	964+27.84	105.72' RT	670.84	654.00	655.24
20+00.00	964+51.70	106.49' RT	670.58	652.50	654.48
20+25.00	964+75.56	107.17' RT	670.28	651.00	653.01
20+50.00	964+99.41	107.77' RT	669.95	649.50	651.94
20+75.00	965+23.26	108.27' RT	669.58	647.75	650.61
21+00.00	965+47.11	108.70' RT	669.17	646.00	648.78
21+25.00	965+70.95	109.02' RT	668.72	645.00	647.38
21+50.00	965+94.79	109.28' RT	668.24	644.00	646.36
21+75.00	966+18.63	109.43' RT	667.73	642.25	644.93
22+00.00	966+42.47	109.51' RT	667.14	640.50	644.03
22+25.00	966+66.31	109.50' RT	666.53	639.00	642.62
22+50.00	966+90.15	109.51' RT	665.88	637.50	640.64
22+75.00	967+13.99	109.87' RT	665.23	638.45	637.15
22+97.65	967+34.26	109.62' RT	664.58	637.89	637.67
22+97.66	967+34.27	109.62' RT	650.28	637.89	637.67
23+02.65	967+40.35	109.57' RT	650.28	637.77	637.52
23+25.00	967+36.48	87.58' RT	650.28	637.83	638.39
23+50.00	967+32.06	63.00' RT	650.28	637.89	638.81
23+75.00	967+27.55	38.43' RT	650.28	637.96	639.22
24+00.00	967+22.95	13.87' RT	650.28	638.02	640.66

WALL STA.	℄ IH 43 STA.	℄ OFFSET TO F.F. OF WALL(FT)	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
24+25.00	967+18.24	10.68' LT	650.28	638.09	640.15
24+50.00	967+13.47	35.23' LT	650.28	638.15	638.84
24+75.00	967+08.50	59.76' LT	650.28	638.21	639.33
25+06.26	967+02.19	90.42' LT	650.28	638.30	638.10
25+11.26	966+94.70	90.23' LT	650.28	638.49	638.66
25+11.27	966+94.69	90.23' LT	657.60	638.49	638.66
25+25.00	966+82.68	89.89' LT	657.93	639.03	639.02
25+50.00	966+56.67	88.93' LT	658.51	640.00	638.87
25+75.00	966+30.68	87.69' LT	659.07	640.25	638.65
26+00.00	966+04.72	86.20' LT	659.62	640.50	639.19
26+25.00	965+78.72	86.20' LT	660.06	641.75	640.45
26+50.00	965+52.73	86.20' LT	660.46	643.00	641.98
26+75.00	965+26.73	86.20' LT	660.83	644.25	643.12
27+00.00	965+00.74	86.20' LT	661.18	645.50	644.52
27+25.00	964+74.74	86.20' LT	661.49	647.00	646.36
27+50.00	964+48.74	86.20' LT	661.77	648.50	647.84
27+75.00	964+22.75	86.20' LT	662.01	650.25	648.88
28+00.00	963+96.75	86.20' LT	662.23	652.00	650.16
28+25.00	963+70.76	86.20' LT	662.41	653.25	651.22
28+50.00	963+44.76	86.20' LT	662.57	654.50	652.16
28+75.00	963+18.76	86.20' LT	662.69	654.75	653.63
29+00.00	962+92.77	86.20' LT	662.78	655.00	654.90
29+25.00	962+66.77	86.20' LT	662.83	655.75	656.07
29+50.00	962+40.78	86.20' LT	662.86	656.50	657.04
29+75.00	962+14.78	86.20' LT	662.86	657.25	657.93
30+00.00	961+88.78	86.20' LT	662.82	658.00	658.89
30+14.37	961+73.85	86.20' LT	662.79	662.79	659.33

STATE PROJECT NUMBER

1228-22-71

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE REINFORCING ZONE	30	0	120
BOR-__ - STA. XX+XX.XX - XX' LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
BOR-__ - STA. XX+XX.XX - XX' LT/RT OF XXX			
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX
(INSERT SOIL DESCRIPTION) EL. ---.-- TO EL ---.--	XX	XX	XXX

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
EXPOSED WALL HEIGHT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
MINIMUM LENGTH OF REINFORCEMENT (FEET)	XX.X	XX.X	XX.X	XX.X	XX.X
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	XX.X	XX.X	XX.X	XX.X	XX.X
BORING LOCATION USED	BOR - XX	BOR - XX	BOR - XX	BOR - XX	BOR - XX
APPROXIMATE WALL STATION	XX.X	XX.X	XX.X	XX.X	XX.X
BACK SLOPE ABOVE WALL	XX.X	XX.X	XX.X	XX.X	XX.X
CAPACITY TO DEMAND RATIO (CDR)					
SLIDING (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
ECCENTRICITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
OVERALL STABILITY (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
BEARING RESISTANCE (CDR > 1.0)	X.X	X.X	X.X	X.X	X.X
FACTORED BEARING RESISTANCE (PSF)	XXXX	XXXX	XXXX	XXXX	XXXX

NOTES:
1.
2.
3.
4.
5.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

WALL GEOMETRY & SOIL DATA

SHEET 10

PRE_385

PRELIMINARY

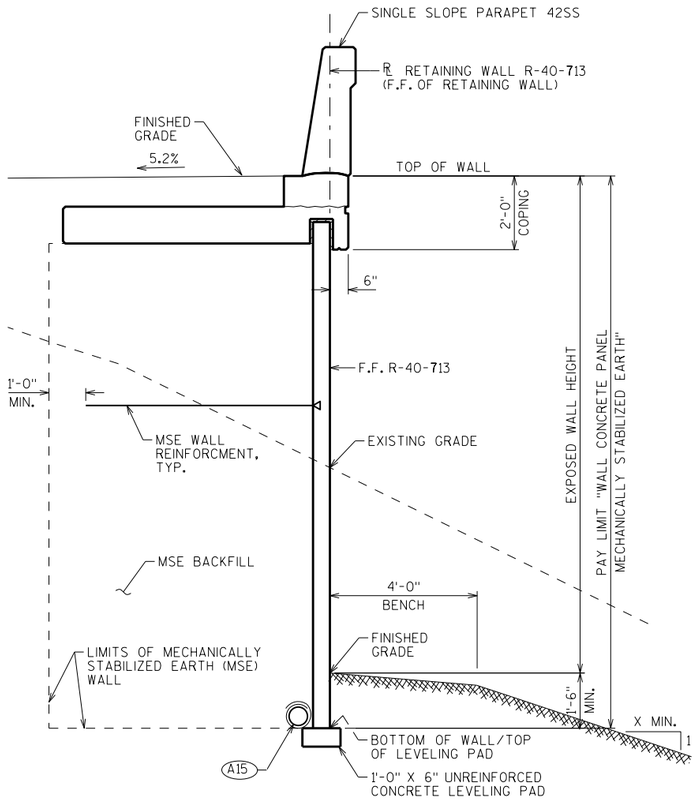
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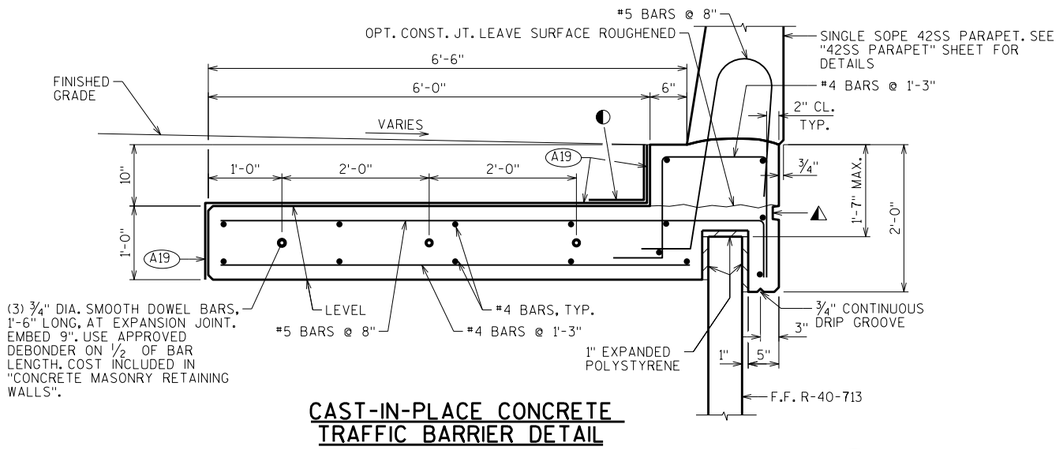
STATE PROJECT NUMBER

1228-22-71



TYPICAL SECTION

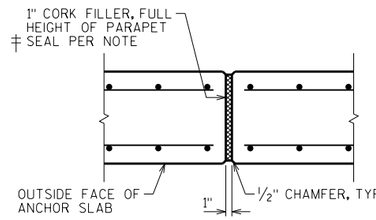
LOOKING EAST
SEGMENT XX: STA. XX+XXXX TO XX+XXXXX
SEGMENT XX: STA. XX+XXXX TO XX+XXXX



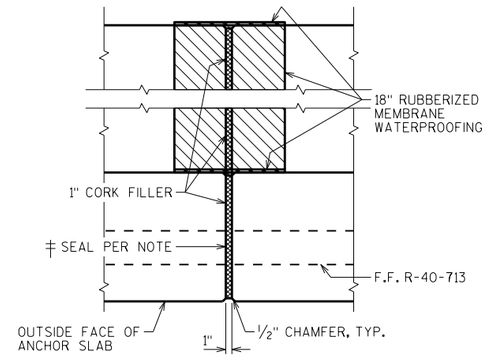
CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

◭ PROVIDE RUSTICATION IF OPT. CONST. JT. IS USED.



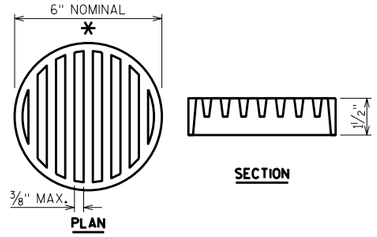
TRAFFIC BARRIER EXPANSION JOINT DETAIL



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

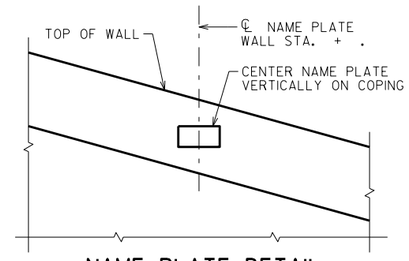


RODENT SHIELD DETAIL

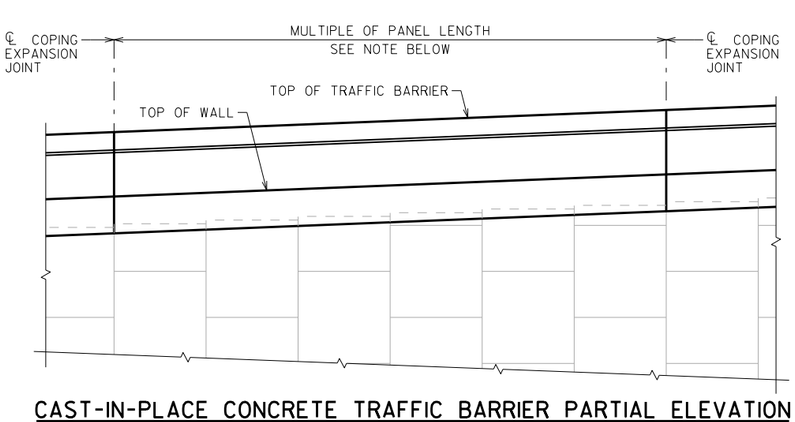
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

WALL DETAILS 1

SHEET 11

PRE_386

PRELIMINARY

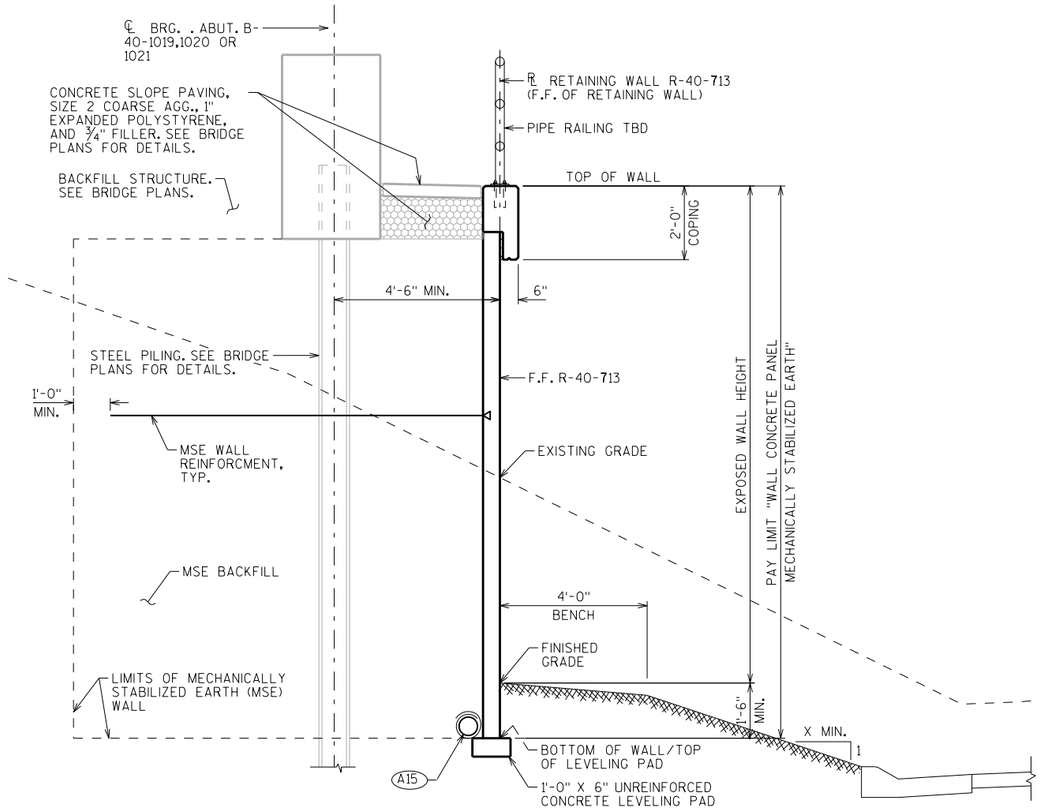
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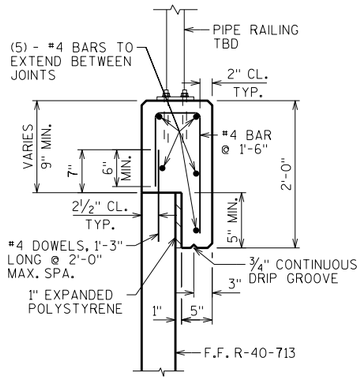
STATE PROJECT NUMBER

1228-22-71

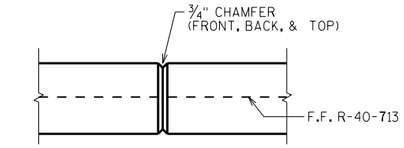


TYPICAL SECTION AT ABUTMENT

LOOKING EAST
STA. XX+XXXX TO XX+XXXX
STA. XX+XXXX TO XX+XXXX

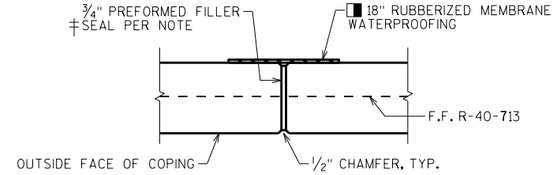


CAST-IN-PLACE CONCRETE COPING DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

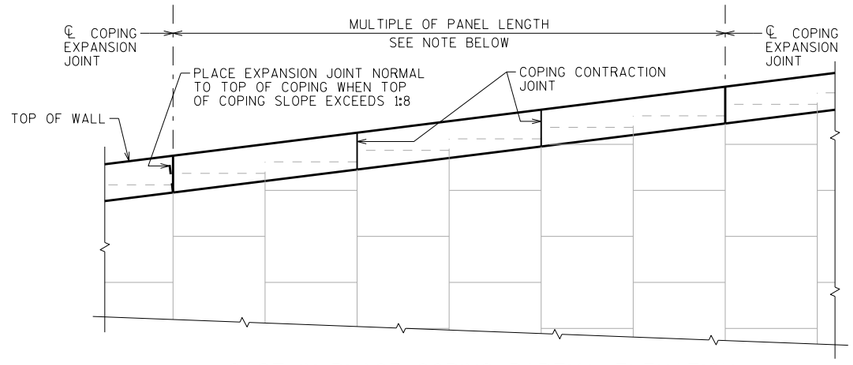


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-713

DRAWN BY DLM | PLANS CK'D. MWB

WALL DETAILS 2

SHEET 12

PRE_387

PRELIMINARY

SCALE = 2.00

8

8

IH 43 NB

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
934+50 AH	93450.00	0.00	146.85	0.09	0	0	0	0	0
935+00	93500.00	50.00	158.53	0.00	283	0	283	0	283
935+50	93550.00	50.00	148.28	26.21	284	24	567	26	541
935+53 BK	93553.21	3.21	155.26	59.05	18	5	585	32	553
937+18 AH	93717.92	0.00	132.05	1.75	0	0	0	0	0
937+50	93750.00	32.08	146.83	0.00	166	1	166	1	165
938+00	93800.00	50.00	155.98	0.00	280	0	446	1	445
938+50	93850.00	50.00	167.56	0.00	300	0	746	1	745
939+00	93900.00	50.00	179.08	0.00	321	0	1,067	1	1,066
939+50	93950.00	50.00	205.24	0.00	356	0	1,423	1	1,422
940+00	94000.00	50.00	30.23	23.27	218	22	1,641	25	1,616
940+50	94050.00	50.00	0.00	1005.69	28	953	1,669	1,074	595
941+00	94100.00	50.00	0.00	1021.00	0	1,877	1,669	3,138	-1,469
941+50	94150.00	50.00	0.00	1010.28	0	1,881	1,669	5,207	-3,538
942+00	94200.00	50.00	0.00	1009.26	0	1,870	1,669	7,264	-5,595
942+50	94250.00	50.00	13.08	1439.59	12	2,267	1,681	9,758	-8,077
943+00	94300.00	50.00	10.85	1377.43	22	2,608	1,703	12,627	-10,924
943+50	94350.00	50.00	7.03	1365.76	17	2,540	1,720	15,421	-13,701
944+00	94400.00	50.00	4.17	1322.83	10	2,489	1,730	18,159	-16,429
944+50	94450.00	50.00	4.09	1328.70	8	2,455	1,738	20,859	-19,121
945+00	94500.00	50.00	2.13	1234.94	6	2,374	1,744	23,471	-21,727
945+50	94550.00	50.00	0.19	1043.52	2	2,110	1,746	25,792	-24,046
946+00	94600.00	50.00	0.00	978.74	0	1,872	1,746	27,851	-26,105
946+50	94650.00	50.00	0.00	922.67	0	1,761	1,746	29,788	-28,042
947+00	94700.00	50.00	0.00	920.31	0	1,706	1,746	31,665	-29,919
947+50	94750.00	50.00	0.00	1019.41	0	1,796	1,746	33,640	-31,894
948+00	94800.00	50.00	0.00	851.08	0	1,732	1,746	35,545	-33,799
948+50	94850.00	50.00	0.00	685.86	0	1,423	1,746	37,111	-35,365
949+00	94900.00	50.00	0.00	632.78	0	1,221	1,746	38,454	-36,708
949+50	94950.00	50.00	0.00	649.39	0	1,187	1,746	39,760	-38,014
950+00	95000.00	50.00	0.00	588.04	0	1,146	1,746	41,020	-39,274
950+50	95050.00	50.00	0.00	468.27	0	978	1,746	42,096	-40,350
951+00	95100.00	50.00	0.00	347.02	0	755	1,746	42,926	-41,180
951+50	95150.00	50.00	0.00	360.50	0	655	1,746	43,647	-41,901
952+00	95200.00	50.00	0.00	314.46	0	625	1,746	44,334	-42,588
952+50	95250.00	50.00	0.00	290.08	0	560	1,746	44,950	-43,204
953+00	95300.00	50.00	0.00	116.27	0	376	1,746	45,364	-43,618

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 NB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
953+50	95350.00	50.00	0.00	55.88	0	159	1,746	45,539	-43,793
954+00	95400.00	50.00	6.33	125.87	6	168	1,752	45,724	-43,972
954+50	95450.00	50.00	617.07	69.08	577	181	2,329	45,923	-43,594
955+00	95500.00	50.00	2744.49	0.00	3,113	64	5,442	45,993	-40,551
955+50	95550.00	50.00	3000.86	0.00	5,320	0	10,762	45,993	-35,231
956+00	95600.00	50.00	2931.07	0.00	5,493	0	16,255	45,993	-29,738
956+50	95650.00	50.00	2812.12	0.00	5,318	0	21,573	45,993	-24,420
957+00	95700.00	50.00	2673.35	0.00	5,079	0	26,652	45,993	-19,341
957+50	95750.00	50.00	2501.43	0.00	4,791	0	31,443	45,993	-14,550
958+00	95800.00	50.00	2315.53	0.00	4,460	0	35,903	45,993	-10,090
958+50	95850.00	50.00	2119.67	0.00	4,107	0	40,010	45,993	-5,983
959+00	95900.00	50.00	1889.79	0.00	3,712	0	43,722	45,993	-2,271
959+50	95950.00	50.00	1677.49	0.00	3,303	0	47,025	45,993	1,032
960+00	96000.00	50.00	1462.29	0.00	2,907	0	49,932	45,993	3,939
960+50	96050.00	50.00	1281.98	0.00	2,541	0	52,473	45,993	6,480
961+00	96100.00	50.00	1121.55	0.00	2,225	0	54,698	45,993	8,705
961+50	96150.00	50.00	666.75	0.00	1,656	0	56,354	45,993	10,361
962+00	96200.00	50.00	574.96	0.00	1,150	0	57,504	45,993	11,511
962+50	96250.00	50.00	482.32	0.00	979	0	58,483	45,993	12,490
963+00	96300.00	50.00	393.72	0.00	811	0	59,294	45,993	13,301
963+50	96350.00	50.00	311.55	0.00	653	0	59,947	45,993	13,954
964+00	96400.00	50.00	235.49	0.00	507	0	60,454	45,993	14,461
964+50	96450.00	50.00	169.07	0.00	375	0	60,829	45,993	14,836
965+00	96500.00	50.00	110.42	0.00	259	0	61,088	45,993	15,095
965+50	96550.00	50.00	61.05	0.00	159	0	61,247	45,993	15,254
966+00	96600.00	50.00	20.73	0.09	76	0	61,323	45,993	15,330
966+50	96650.00	50.00	4.94	59.74	24	55	61,347	46,054	15,293
967+00	96700.00	50.00	0.00	312.39	5	345	61,352	46,433	14,919
967+15 BK	96714.56	14.56	0.00	1003.93	0	355	61,352	46,824	14,528

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 NB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
968+11 AH	96811.03	0.00	0.00	912.63	0	0	0	0	0
968+50	96850.00	38.97	0.00	168.87	0	780	0	858	-858
969+00	96900.00	50.00	0.00	139.86	0	286	0	1,173	-1,173
969+50	96950.00	50.00	0.00	159.48	0	277	0	1,477	-1,477
970+00	97000.00	50.00	0.00	176.30	0	311	0	1,819	-1,819
970+50	97050.00	50.00	0.00	185.00	0	335	0	2,188	-2,188
971+00	97100.00	50.00	0.00	188.29	0	346	0	2,569	-2,569
971+50	97150.00	50.00	0.00	204.74	0	364	0	2,969	-2,969
972+00	97200.00	50.00	0.00	198.64	0	374	0	3,380	-3,380
972+50	97250.00	50.00	0.00	184.45	0	355	0	3,771	-3,771
973+00	97300.00	50.00	0.00	162.31	0	321	0	4,124	-4,124
973+50	97350.00	50.00	2.04	144.53	2	284	2	4,436	-4,434
974+00	97400.00	50.00	8.86	157.05	10	279	12	4,743	-4,731
974+50	97450.00	50.00	10.89	185.24	18	317	30	5,092	-5,062
975+00	97500.00	50.00	18.24	254.00	27	407	57	5,540	-5,483
975+50	97550.00	50.00	19.33	406.11	35	611	92	6,212	-6,120
976+00	97600.00	50.00	19.76	518.48	36	856	128	7,153	-7,025
976+50	97650.00	50.00	21.25	649.67	38	1,082	166	8,344	-8,178
977+00	97700.00	50.00	18.84	1263.25	37	1,771	203	10,292	-10,089
977+50	97750.00	50.00	0.00	1728.45	17	2,770	220	13,339	-13,119
977+52 BK	97752.14	2.14	0.00	1762.78	0	138	220	13,490	-13,270
983+35 AH	98335.32	0.00	0.00	1475.50	0	0	0	0	0
983+50	98350.00	14.68	0.00	1503.93	0	810	0	891	-891
984+00	98400.00	50.00	0.00	1569.03	0	2,845	0	4,021	-4,021
984+50	98450.00	50.00	0.01	1550.90	0	2,889	0	7,198	-7,198
985+00	98500.00	50.00	0.00	1534.95	0	2,857	0	10,341	-10,341
985+50	98550.00	50.00	0.00	1526.66	0	2,835	0	13,460	-13,460
986+00	98600.00	50.00	0.00	1560.44	0	2,858	0	16,603	-16,603
986+50	98650.00	50.00	0.00	1383.71	0	2,726	0	19,602	-19,602
987+00	98700.00	50.00	0.00	1040.89	0	2,245	0	22,072	-22,072
987+50	98750.00	50.00	0.00	657.29	0	1,572	0	23,801	-23,801
988+00	98800.00	50.00	0.00	392.49	0	972	0	24,870	-24,870
988+50	98850.00	50.00	0.00	389.70	0	724	0	25,666	-25,666
989+00	98900.00	50.00	0.00	144.28	0	494	0	26,210	-26,210

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 NB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
989+50	98950.00	50.00	29.31	19.43	27	152	27	26,377	-26,350
990+00	99000.00	50.00	130.81	4.26	148	22	175	26,401	-26,226
990+50	99050.00	50.00	242.20	0.00	345	4	520	26,406	-25,886
991+00	99100.00	50.00	302.96	0.00	505	0	1,025	26,406	-25,381
991+50	99150.00	50.00	284.30	11.52	544	11	1,569	26,418	-24,849
992+00	99200.00	50.00	230.51	31.22	477	40	2,046	26,462	-24,416
992+50	99250.00	50.00	196.06	26.03	395	53	2,441	26,520	-24,079
993+00	99300.00	50.00	201.60	32.99	368	55	2,809	26,580	-23,771
993+50	99350.00	50.00	167.35	45.73	342	73	3,151	26,661	-23,510
994+00	99400.00	50.00	181.52	79.90	323	116	3,474	26,788	-23,314
994+50	99450.00	50.00	197.06	79.69	351	148	3,825	26,951	-23,126
995+00	99500.00	50.00	200.93	68.87	369	138	4,194	27,103	-22,909
995+50	99550.00	50.00	208.52	30.86	379	92	4,573	27,204	-22,631
996+00	99600.00	50.00	220.38	2.22	397	31	4,970	27,238	-22,268
996+50	99650.00	50.00	231.16	0.00	418	2	5,388	27,240	-21,852
997+00	99700.00	50.00	246.68	0.00	442	0	5,830	27,240	-21,410
997+50	99750.00	50.00	265.19	0.00	474	0	6,304	27,240	-20,936
998+00	99800.00	50.00	259.67	0.25	486	0	6,790	27,240	-20,450
998+50	99850.00	50.00	244.46	0.00	467	0	7,257	27,240	-19,983
999+00	99900.00	50.00	260.62	0.00	468	0	7,725	27,240	-19,515
999+50	99950.00	50.00	281.47	0.00	502	0	8,227	27,240	-19,013
1000+00	100000.00	50.00	301.53	0.00	540	0	8,767	27,240	-18,473
1000+50	100050.00	50.00	307.89	0.00	564	0	9,331	27,240	-17,909
1001+00	100100.00	50.00	237.29	0.00	505	0	9,836	27,240	-17,404
1001+50	100150.00	50.00	218.38	0.00	422	0	10,258	27,240	-16,982
1002+00	100200.00	50.00	201.11	0.03	388	0	10,646	27,240	-16,594
1002+50	100250.00	50.00	182.10	0.01	355	0	11,001	27,240	-16,239
1003+00	100300.00	50.00	169.56	0.22	326	0	11,327	27,240	-15,913
1003+50	100350.00	50.00	163.91	0.75	309	1	11,636	27,242	-15,606
1003+58 BK	100357.80	7.80	162.92	0.60	47	0	11,683	27,242	-15,559
			40500.11	48955.74					

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 SB

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
934+50 AH	93450.00	0.00	157.72	0.00	0	0	0	0	0
935+00	93500.00	50.00	142.47	25.56	278	24	278	26	252
935+50	93550.00	50.00	137.63	56.49	259	76	537	110	427
935+85 BK	93584.92	34.92	134.82	87.25	176	93	713	212	501
937+50 AH	93750.19	0.00	151.45	1.89	0	0	0	0	0
938+00	93800.00	49.81	163.83	0.00	291	2	291	2	289
938+50	93850.00	50.00	194.01	0.00	331	0	622	2	620
939+00	93900.00	50.00	229.58	0.00	392	0	1,014	2	1,012
939+50	93950.00	50.00	169.31	0.00	369	0	1,383	2	1,381
940+00	94000.00	50.00	192.11	0.00	335	0	1,718	2	1,716
940+50	94050.00	50.00	0.00	868.94	178	805	1,896	888	1,008
941+00	94100.00	50.00	0.00	950.04	0	1,684	1,896	2,740	-844
941+50	94150.00	50.00	0.00	2482.10	0	3,178	1,896	6,236	-4,340
942+00	94200.00	50.00	0.00	2236.83	0	4,369	1,896	11,042	-9,146
942+50	94250.00	50.00	0.00	2086.25	0	4,003	1,896	15,445	-13,549
943+00	94300.00	50.00	0.00	1999.58	0	3,783	1,896	19,606	-17,710
943+50	94350.00	50.00	0.00	1985.07	0	3,689	1,896	23,664	-21,768
944+00	94400.00	50.00	0.00	2011.94	0	3,701	1,896	27,735	-25,839
944+50	94450.00	50.00	0.00	1994.06	0	3,709	1,896	31,815	-29,919
945+00	94500.00	50.00	0.00	1427.14	0	3,168	1,896	35,300	-33,404
945+50	94550.00	50.00	0.00	1243.73	0	2,473	1,896	38,020	-36,124
946+00	94600.00	50.00	0.00	1230.44	0	2,291	1,896	40,541	-38,645
946+50	94650.00	50.00	0.00	1066.10	0	2,126	1,896	42,879	-40,983
947+00	94700.00	50.00	0.00	906.41	0	1,826	1,896	44,888	-42,992
947+50	94750.00	50.00	0.00	911.40	0	1,683	1,896	46,739	-44,843
948+00	94800.00	50.00	0.00	941.31	0	1,715	1,896	48,626	-46,730
948+50	94850.00	50.00	0.00	880.32	0	1,687	1,896	50,481	-48,585
949+00	94900.00	50.00	0.00	786.07	0	1,543	1,896	52,179	-50,283
949+50	94950.00	50.00	0.00	896.89	0	1,558	1,896	53,892	-51,996
950+00	95000.00	50.00	0.00	963.99	0	1,723	1,896	55,788	-53,892
950+50	95050.00	50.00	0.00	920.83	0	1,745	1,896	57,707	-55,811
951+00	95100.00	50.00	0.00	808.60	0	1,601	1,896	59,468	-57,572
951+50	95150.00	50.00	0.00	764.42	0	1,456	1,896	61,070	-59,174
952+00	95200.00	50.00	0.00	620.09	0	1,282	1,896	62,480	-60,584
952+50	95250.00	50.00	0.00	473.43	0	1,013	1,896	63,594	-61,698
953+00	95300.00	50.00	0.00	442.84	0	848	1,896	64,527	-62,631

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 SB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
953+50	95350.00	50.00	0.00	352.72	0	737	1,896	65,338	-63,442
954+00	95400.00	50.00	375.98	17.11	348	342	2,244	65,714	-63,470
954+50	95450.00	50.00	1237.94	0.00	1,494	16	3,738	65,732	-61,994
955+00	95500.00	50.00	1356.22	23.51	2,402	22	6,140	65,756	-59,616
955+50	95550.00	50.00	1495.24	2.34	2,640	24	8,780	65,782	-57,002
956+00	95600.00	50.00	1543.11	0.03	2,813	2	11,593	65,784	-54,191
956+50	95650.00	50.00	1631.31	0.00	2,939	0	14,532	65,784	-51,252
957+00	95700.00	50.00	1632.96	0.00	3,022	0	17,554	65,784	-48,230
957+50	95750.00	50.00	1705.84	0.00	3,091	0	20,645	65,784	-45,139
958+00	95800.00	50.00	1719.39	0.00	3,172	0	23,817	65,784	-41,967
958+50	95850.00	50.00	1674.61	0.00	3,143	0	26,960	65,784	-38,824
959+00	95900.00	50.00	1583.79	0.00	3,017	0	29,977	65,784	-35,807
959+50	95950.00	50.00	1480.26	0.00	2,837	0	32,814	65,784	-32,970
960+00	96000.00	50.00	1338.13	0.00	2,610	0	35,424	65,784	-30,360
960+50	96050.00	50.00	1160.69	0.00	2,314	0	37,738	65,784	-28,046
961+00	96100.00	50.00	973.67	157.37	1,976	146	39,714	65,945	-26,231
961+50	96150.00	50.00	782.75	239.95	1,626	368	41,340	66,350	-25,010
962+00	96200.00	50.00	617.42	59.10	1,296	277	42,636	66,655	-24,019
962+50	96250.00	50.00	476.62	77.76	1,013	127	43,649	66,794	-23,145
963+00	96300.00	50.00	347.98	135.53	764	197	44,413	67,011	-22,598
963+50	96350.00	50.00	249.43	229.49	553	338	44,966	67,383	-22,417
964+00	96400.00	50.00	173.54	235.25	392	430	45,358	67,856	-22,498
964+50	96450.00	50.00	105.89	249.13	259	449	45,617	68,350	-22,733
965+00	96500.00	50.00	60.54	297.42	154	506	45,771	68,906	-23,135
965+50	96550.00	50.00	30.05	338.58	84	589	45,855	69,554	-23,699
966+00	96600.00	50.00	1.93	355.28	30	642	45,885	70,260	-24,375
966+50	96650.00	50.00	0.00	496.62	2	789	45,887	71,128	-25,241
966+95 BK	96694.58	44.58	12.53	961.12	10	1,203	45,897	72,452	-26,555

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 SB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
967+99 AH	96799.11	0.00	0.00	1502.93	0	0	0	0	0
968+00	96800.00	0.89	0.00	1440.02	0	49	0	54	-54
968+50	96850.00	50.00	0.00	306.01	0	1,617	0	1,833	-1,833
969+00	96900.00	50.00	0.19	270.60	0	534	0	2,420	-2,420
969+50	96950.00	50.00	13.35	172.91	13	411	13	2,872	-2,859
970+00	97000.00	50.00	5.97	124.60	18	275	31	3,175	-3,144
970+50	97050.00	50.00	4.50	75.68	10	185	41	3,378	-3,337
971+00	97100.00	50.00	27.71	17.06	30	86	71	3,473	-3,402
971+50	97150.00	50.00	18.27	35.23	43	48	114	3,526	-3,412
972+00	97200.00	50.00	21.13	19.23	36	50	150	3,581	-3,431
972+50	97250.00	50.00	1.62	9.48	21	27	171	3,610	-3,439
973+00	97300.00	50.00	1.72	5.86	3	14	174	3,626	-3,452
973+50	97350.00	50.00	5.51	1.48	7	7	181	3,633	-3,452
974+00	97400.00	50.00	18.55	0.00	22	1	203	3,634	-3,431
974+50	97450.00	50.00	47.92	0.02	62	0	265	3,634	-3,369
975+00	97500.00	50.00	75.42	0.02	114	0	379	3,634	-3,255
975+50	97550.00	50.00	108.38	0.02	170	0	549	3,634	-3,085
976+00	97600.00	50.00	130.91	0.01	222	0	771	3,634	-2,863
976+50	97650.00	50.00	143.95	0.01	254	0	1,025	3,634	-2,609
977+00	97700.00	50.00	126.81	0.01	251	0	1,276	3,634	-2,358
977+48 BK	97747.75	47.75	0.00	223.82	112	198	1,388	3,852	-2,464
983+31 AH	98331.31	0.00	286.48	5.63	0	0	0	0	0
983+50	98350.00	18.69	67.89	34.32	123	14	123	15	108
984+00	98400.00	50.00	43.17	37.40	103	66	226	88	138
984+50	98450.00	50.00	8.15	85.96	48	114	274	213	61
985+00	98500.00	50.00	0.05	117.13	8	188	282	420	-138
985+50	98550.00	50.00	0.00	129.56	0	228	282	671	-389
986+00	98600.00	50.00	0.00	123.73	0	235	282	930	-648
986+50	98650.00	50.00	0.00	118.30	0	224	282	1,176	-894
987+00	98700.00	50.00	0.00	111.66	0	213	282	1,410	-1,128
987+50	98750.00	50.00	0.00	82.21	0	180	282	1,608	-1,326
988+00	98800.00	50.00	2.67	44.71	2	118	284	1,738	-1,454
988+50	98850.00	50.00	18.72	29.63	20	69	304	1,814	-1,510
989+00	98900.00	50.00	54.74	19.47	68	45	372	1,863	-1,491

(CONTINUED ON NEXT SHEET)

NOTE 1: MASS ORDINATE=CUT-FILL

IH 43 SB (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
989+50	98950.00	50.00	83.08	15.30	128	32	500	1,899	-1,399
990+00	99000.00	50.00	102.23	13.86	172	27	672	1,928	-1,256
990+50	99050.00	50.00	123.25	8.63	209	21	881	1,951	-1,070
991+00	99100.00	50.00	149.51	5.83	253	13	1,134	1,966	-832
991+50	99150.00	50.00	160.73	3.65	287	9	1,421	1,976	-555
992+00	99200.00	50.00	176.67	2.08	312	5	1,733	1,981	-248
992+50	99250.00	50.00	187.20	1.34	337	3	2,070	1,984	86
993+00	99300.00	50.00	194.03	1.51	353	3	2,423	1,988	435
993+50	99350.00	50.00	205.18	1.68	370	3	2,793	1,991	802
994+00	99400.00	50.00	201.76	0.52	377	2	3,170	1,993	1,177
994+50	99450.00	50.00	213.96	0.00	385	0	3,555	1,993	1,562
995+00	99500.00	50.00	208.42	0.13	391	0	3,946	1,993	1,953
995+50	99550.00	50.00	210.14	0.23	388	0	4,334	1,993	2,341
996+00	99600.00	50.00	216.97	0.18	395	0	4,729	1,993	2,736
996+50	99650.00	50.00	216.50	0.22	401	0	5,130	1,993	3,137
997+00	99700.00	50.00	209.12	0.24	394	0	5,524	1,993	3,531
997+50	99750.00	50.00	208.84	0.23	387	0	5,911	1,993	3,918
998+00	99800.00	50.00	213.95	0.25	391	0	6,302	1,993	4,309
998+50	99850.00	50.00	221.75	0.32	403	1	6,705	1,994	4,711
999+00	99900.00	50.00	228.10	0.34	417	1	7,122	1,995	5,127
999+50	99950.00	50.00	232.39	0.39	426	1	7,548	1,997	5,552
1000+00	100000.00	50.00	232.79	0.57	431	1	7,979	1,998	5,981
1000+50	100050.00	50.00	238.19	0.36	436	1	8,415	1,999	6,416
1001+00	100100.00	50.00	228.26	0.41	432	1	8,847	2,000	6,847
1001+50	100150.00	50.00	213.86	0.38	409	1	9,256	2,001	7,255
1002+00	100200.00	50.00	221.05	0.00	403	0	9,659	2,001	7,658
1002+50	100250.00	50.00	172.54	0.00	364	0	10,023	2,001	8,022
1003+00	100300.00	50.00	186.11	0.00	332	0	10,355	2,001	8,354
1003+50	100350.00	50.00	175.72	0.00	335	0	10,690	2,001	8,689
1003+58 BK	100357.79	7.79	178.22	0.00	51	0	10,741	2,001	8,740
			32485.09	41501.68					

NOTE 1: MASS ORDINATE=CUT-FILL

RAMP GBC

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
932+98 AH	93298.30	0.00	79.39	0.01	0	0	0	0	0
933+00	93300.00	1.70	79.94	0.01	5	0	5	0	5
933+50	93350.00	50.00	88.41	0.00	156	0	161	0	161
934+00	93400.00	50.00	92.29	0.37	167	0	328	0	328
934+50	93450.00	50.00	91.12	0.44	170	1	498	1	497
935+00	93500.00	50.00	74.93	1.09	154	1	652	2	650
935+50	93550.00	50.00	59.65	8.59	125	9	777	12	765
936+00	93600.00	50.00	47.05	19.72	99	26	876	41	835
936+33 BK	93632.51	32.51	93.31	315.34	84	202	960	263	697
937+10 AH	93710.00	0.00	37.31	338.11	0	0	0	0	0
937+50	93750.00	40.00	53.52	0.65	67	251	67	276	-209
938+00	93800.00	50.00	57.66	2.70	103	3	170	279	-109
938+50	93850.00	50.00	76.60	1.08	124	4	294	284	10
939+00	93900.00	50.00	154.33	3.33	214	4	508	288	220
939+50	93950.00	50.00	137.90	727.99	271	677	779	1,033	-254
940+00	94000.00	50.00	40.91	1039.83	166	1,637	945	2,834	-1,889
940+50	94050.00	50.00	0.00	2042.22	38	2,854	983	5,973	-4,990
941+00	94100.00	50.00	0.00	1767.58	0	3,528	983	9,854	-8,871
941+31 BK	94131.45	31.45	0.00	1614.90	0	1,970	983	12,021	-11,038
			1264.32	7883.96					

NOTE 1: MASS ORDINATE=CUT-FILL

RAMP GBD

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
931+30 AH	93130.13	0.00	121.41	0.24	0	0	0	0	0
931+50	93150.00	19.87	76.58	1.16	73	1	73	1	72
932+00	93200.00	50.00	75.14	6.86	140	7	213	9	204
932+50	93250.00	50.00	73.85	11.72	138	17	351	28	324
933+00	93300.00	50.00	74.32	19.47	137	29	488	59	429
933+50	93350.00	50.00	80.52	5.64	143	23	631	85	546
934+00	93400.00	50.00	85.99	0.10	154	5	785	90	695
934+50	93450.00	50.00	88.08	0.32	161	0	946	90	856
935+00	93500.00	50.00	89.06	0.17	164	0	1,110	90	1,020
935+50	93550.00	50.00	92.53	1.65	168	2	1,278	92	1,186
936+00	93600.00	50.00	102.06	0.16	180	2	1,458	95	1,363
936+50	93650.00	50.00	97.25	11.16	185	10	1,643	106	1,537
937+00	93700.00	50.00	110.42	0.24	192	11	1,835	118	1,717
937+50	93750.00	50.00	145.76	3.76	237	4	2,072	122	1,950
938+00	93800.00	50.00	163.95	11.17	287	14	2,359	138	2,222
938+50	93850.00	50.00	132.91	29.68	275	38	2,634	179	2,455
939+00	93900.00	50.00	114.84	179.79	229	194	2,863	393	2,470
939+50	93950.00	50.00	93.38	269.82	193	416	3,056	850	2,206
940+00	94000.00	50.00	124.66	75.50	202	320	3,258	1,202	2,056
940+50	94050.00	50.00	4.56	594.66	120	621	3,378	1,885	1,493
941+00	94100.00	50.00	18.96	675.78	22	1,176	3,400	3,179	221
941+50	94150.00	50.00	21.74	580.60	38	1,163	3,438	4,458	-1,020
942+00	94200.00	50.00	15.42	514.36	34	1,014	3,472	5,574	-2,102
942+16 BK	94215.92	15.92	14.59	495.74	9	298	3,481	5,902	-2,421
			2017.99	3489.76					

NOTE 1: MASS ORDINATE=CUT-FILL

RAMP HAA

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
961+50 AH	96150.27	0.00	104.29	152.73	0	0	0	0	0
962+00	96200.00	49.73	91.25	258.94	180	379	180	417	-237
962+50	96250.00	50.00	78.17	298.23	157	516	337	985	-648
963+00	96300.00	50.00	64.70	349.22	132	599	469	1,643	-1,174
963+50	96350.00	50.00	46.16	387.78	103	682	572	2,394	-1,822
964+00	96400.00	50.00	30.79	381.18	71	712	643	3,177	-2,534
964+50	96450.00	50.00	27.25	327.91	54	657	697	3,900	-3,203
965+00	96500.00	50.00	17.76	331.31	42	610	739	4,571	-3,832
965+50	96550.00	50.00	16.87	352.56	32	633	771	5,267	-4,496
966+00	96600.00	50.00	7.75	403.67	23	700	794	6,037	-5,243
966+50	96650.00	50.00	10.79	422.80	17	765	811	6,878	-6,067
967+00	96700.00	50.00	21.76	432.79	30	792	841	7,750	-6,909
967+50	96750.00	50.00	68.00	664.34	83	1,016	924	8,867	-7,943
967+60 BK	96760.10	10.10	66.92	705.89	25	256	949	9,149	-8,200
968+51 AH	96850.62	0.00	0.00	647.84	0	0	0	0	0
969+00	96900.00	49.38	0.00	547.81	0	1,093	0	1,202	-1,202
969+50	96950.00	50.00	0.00	549.03	0	1,016	0	2,320	-2,320
970+00	97000.00	50.00	0.00	488.02	0	960	0	3,376	-3,376
970+50	97050.00	50.00	0.00	419.89	0	841	0	4,301	-4,301
971+00	97100.00	50.00	0.00	362.84	0	725	0	5,099	-5,099
971+50	97150.00	50.00	0.00	316.48	0	629	0	5,790	-5,790
972+00	97200.00	50.00	0.00	270.70	0	544	0	6,389	-6,389
972+50	97250.00	50.00	0.00	176.06	0	414	0	6,844	-6,844
973+00	97300.00	50.00	0.00	142.93	0	295	0	7,169	-7,169
973+50	97350.00	50.00	1.88	99.62	2	225	2	7,416	-7,414
974+00	97400.00	50.00	21.23	42.80	21	132	23	7,561	-7,538
974+50	97450.00	50.00	45.43	35.50	62	73	85	7,642	-7,557
975+00	97500.00	50.00	100.63	4.13	135	37	220	7,682	-7,462
975+50	97550.00	50.00	214.40	6.97	292	10	512	7,693	-7,181
976+00	97600.00	50.00	288.84	0.00	466	6	978	7,700	-6,722
976+50	97650.00	50.00	255.03	82.39	504	76	1,482	7,784	-6,302
977+00	97700.00	50.00	317.38	4.54	530	80	2,012	7,872	-5,860
977+50	97750.00	50.00	481.06	0.28	739	4	2,751	7,876	-5,125
978+00	97800.00	50.00	137.68	0.00	573	0	3,324	7,876	-4,552
978+07 BK	97807.48	7.48	125.35	0.21	36	0	3,360	7,876	-4,516
			2641.38	9667.41					

NOTE 1: MASS ORDINATE=CUT-FILL

RAMP HAB

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
971+93 AH	97193.47	0.00	18.37	9.01	0	0	0	0	0
972+00	97200.00	6.53	15.22	6.54	4	2	4	2	2
972+50	97250.00	50.00	14.56	3.44	28	9	32	12	20
973+00	97300.00	50.00	18.45	2.57	31	6	63	19	44
973+50	97350.00	50.00	16.85	13.47	33	15	96	35	61
974+00	97400.00	50.00	27.04	12.55	41	24	137	62	75
974+50	97450.00	50.00	26.50	14.46	50	25	187	89	98
975+00	97500.00	50.00	43.97	19.78	65	32	252	124	128
975+50	97550.00	50.00	58.70	30.97	95	47	347	176	171
976+00	97600.00	50.00	79.65	26.95	128	54	475	235	240
976+50	97650.00	50.00	86.65	54.09	154	75	629	318	311
977+00	97700.00	50.00	109.52	67.49	182	113	811	442	369
977+33 BK	97732.51	32.51	67.15	382.45	106	271	917	740	177
			582.63	643.79					

NOTE 1: MASS ORDINATE=CUT-FILL

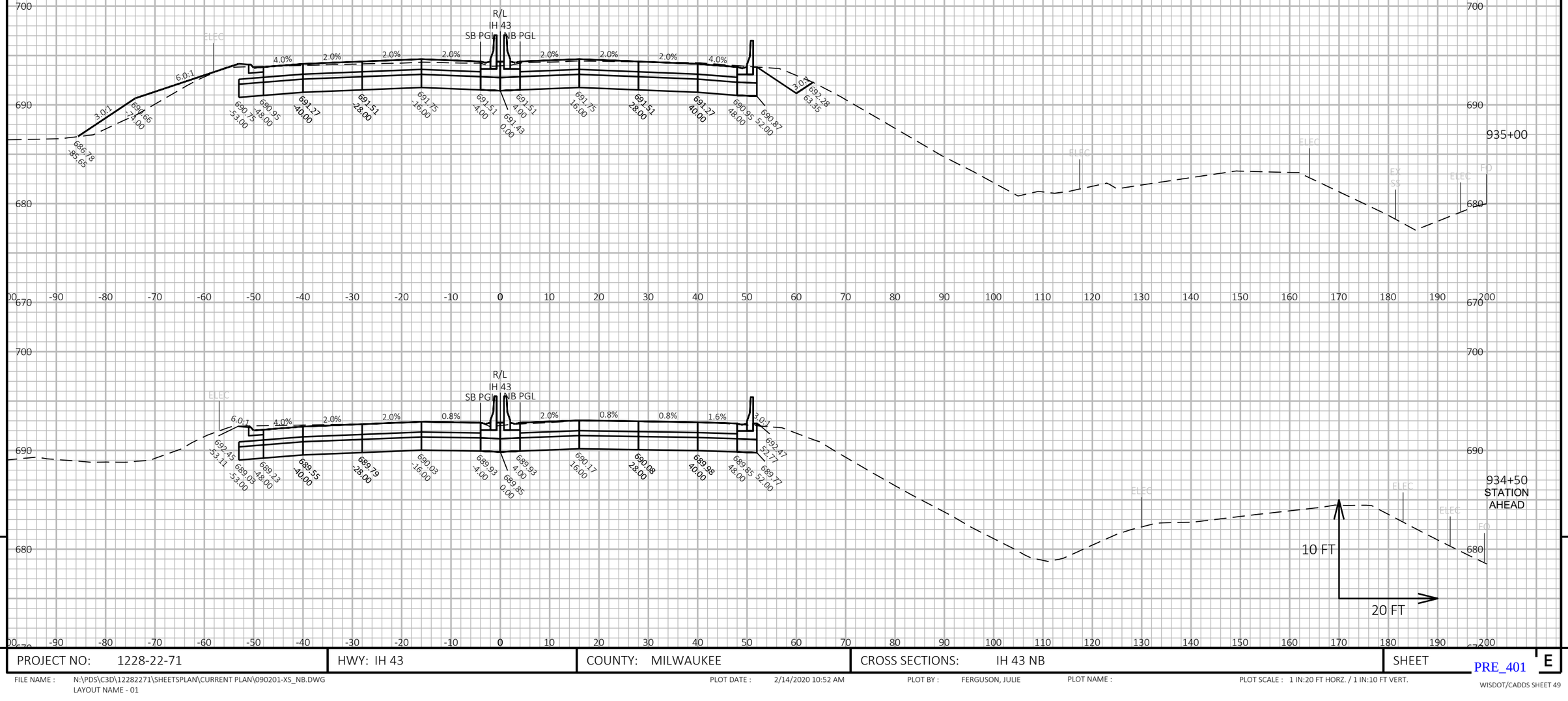
NORTH POND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
1004+00 AH	100400.00	0.00	81.05	0.00	0	0	0	0	0
1004+50	100450.00	50.00	689.32	0.00	713	0	713	0	713
1005+00	100500.00	50.00	1376.16	0.00	1,912	0	2,625	0	2,625
1005+50	100550.00	50.00	1440.62	0.00	2,608	0	5,233	0	5,233
1005+80 BK	100580.00	30.00	435.59	0.00	1,042	0	6,275	0	6,275
			4022.74	0.00					

SOUTH POND

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.10	MASS ORDINATE NOTE 1
955+10 AH	95510.00	0.00	0.00	0.00	0	0	0	0	0
955+50	95550.00	40.00	1642.96	0.00	1,217	0	1,217	0	1,217
956+00	95600.00	50.00	1618.86	0.00	3,020	0	4,237	0	4,237
956+50	95650.00	50.00	1499.97	0.00	2,888	0	7,125	0	7,125
957+00	95700.00	50.00	1364.22	0.00	2,652	0	9,777	0	9,777
957+50	95750.00	50.00	1217.12	0.00	2,390	0	12,167	0	12,167
958+00	95800.00	50.00	1054.03	0.00	2,103	0	14,270	0	14,270
958+50	95850.00	50.00	884.18	0.00	1,795	0	16,065	0	16,065
959+00	95900.00	50.00	711.61	0.00	1,478	0	17,543	0	17,543
959+50	95950.00	50.00	601.53	0.00	1,216	0	18,759	0	18,759
960+00	96000.00	50.00	522.70	0.00	1,041	0	19,800	0	19,800
960+50	96050.00	50.00	437.80	0.00	889	0	20,689	0	20,689
961+00	96100.00	50.00	207.12	7.76	597	7	21,286	8	21,278
961+10 BK	96110.00	10.00	35.44	18.34	45	5	21,331	13	21,318
			11797.55	26.10					

NOTE 1: MASS ORDINATE=CUT-FILL



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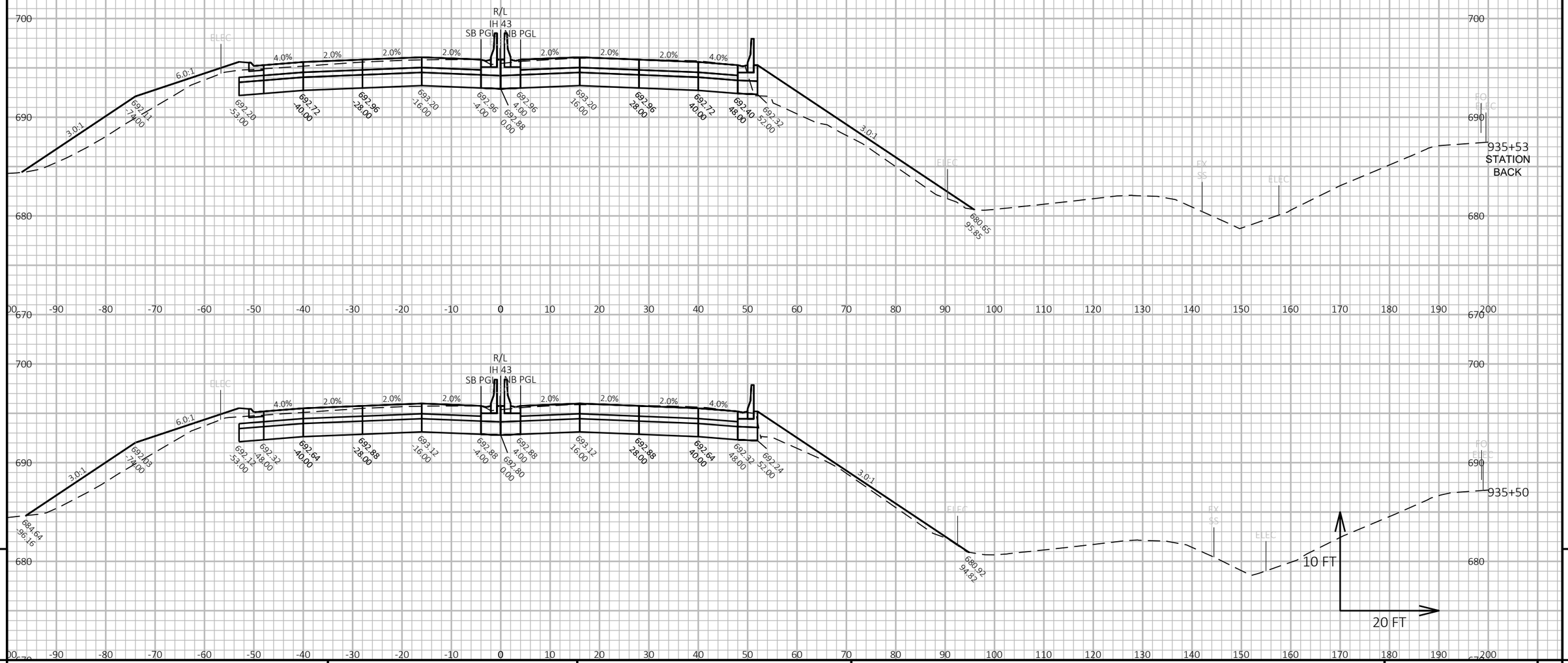
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_401

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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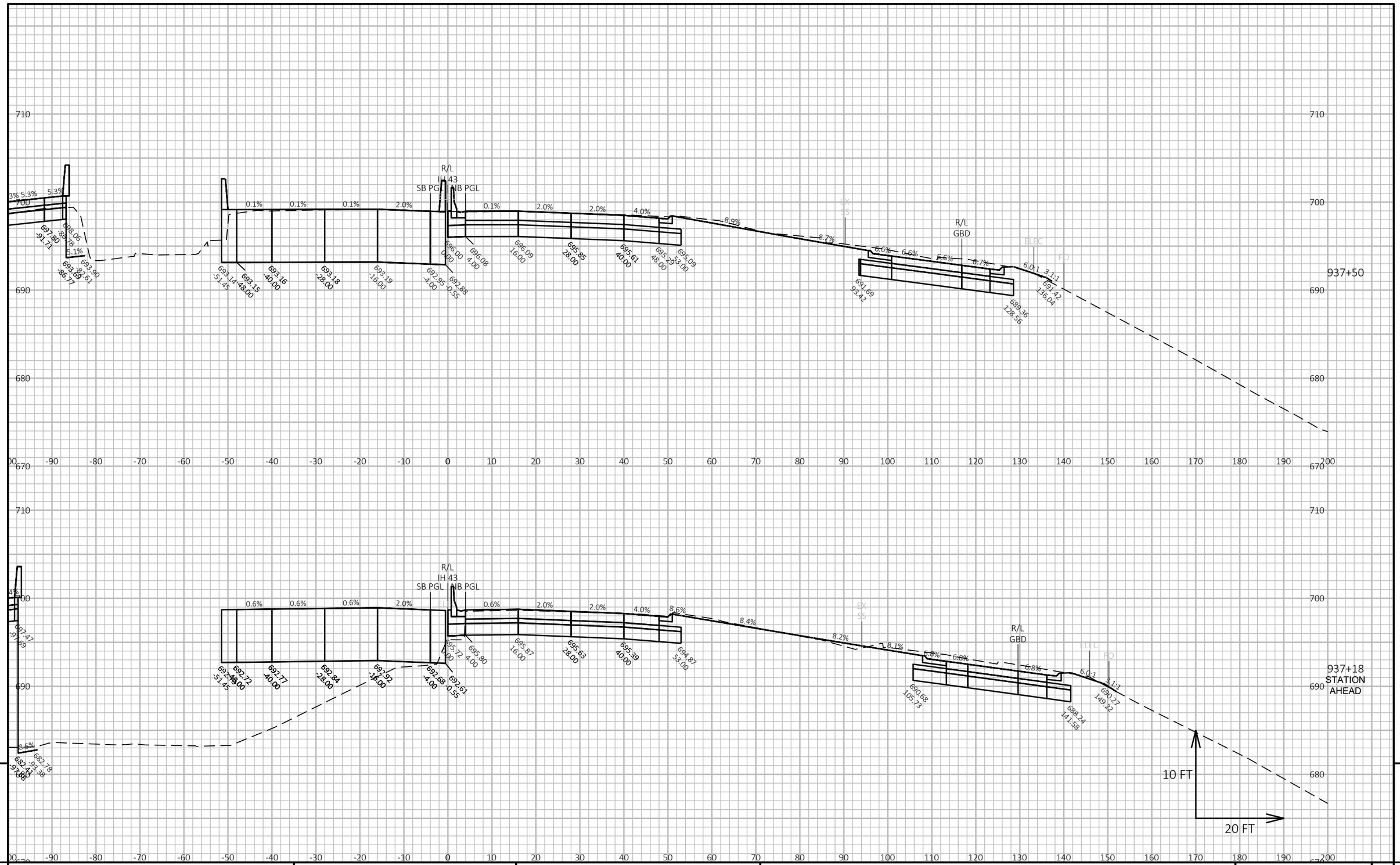
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PRE_402

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

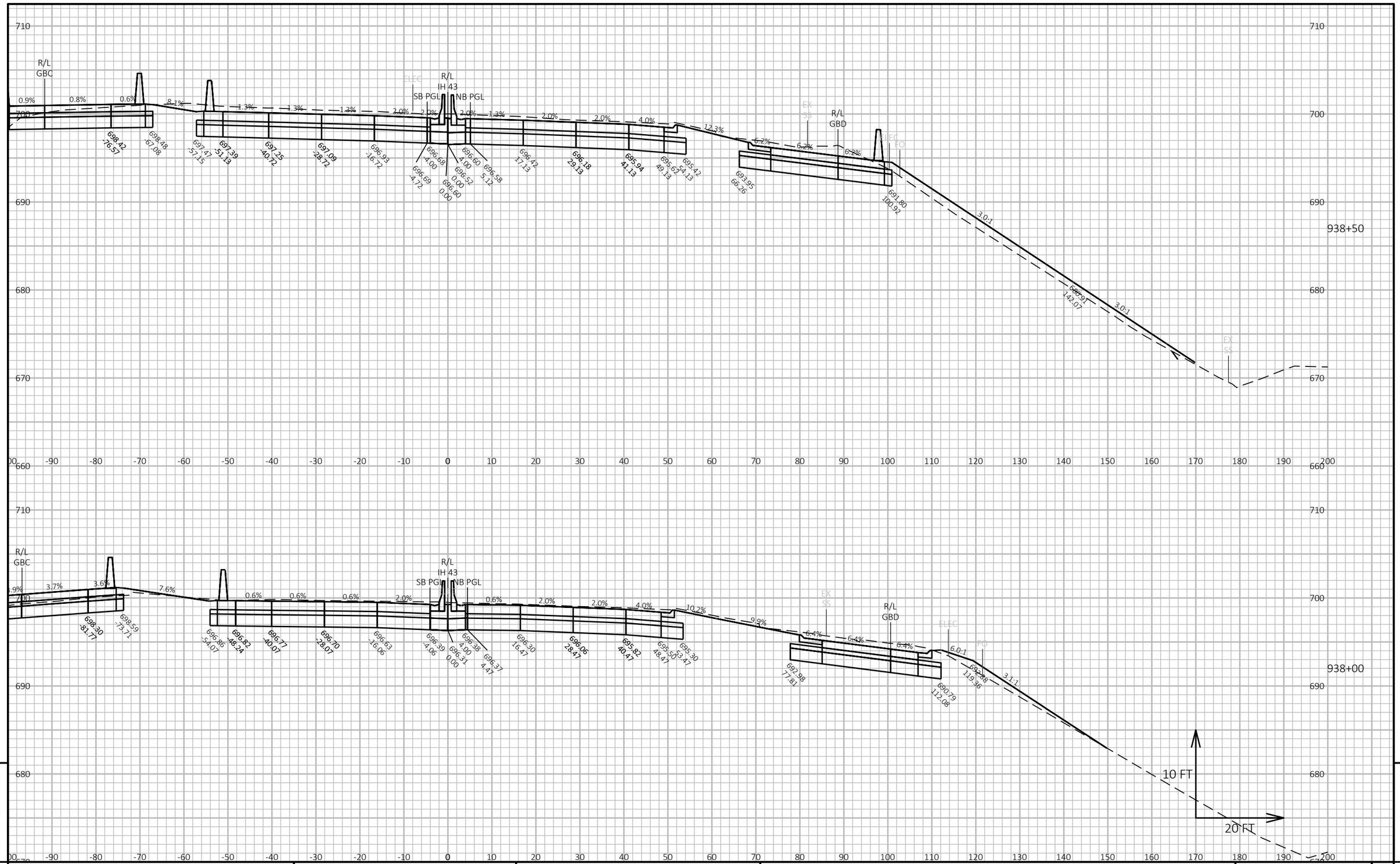


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET PRE_403 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

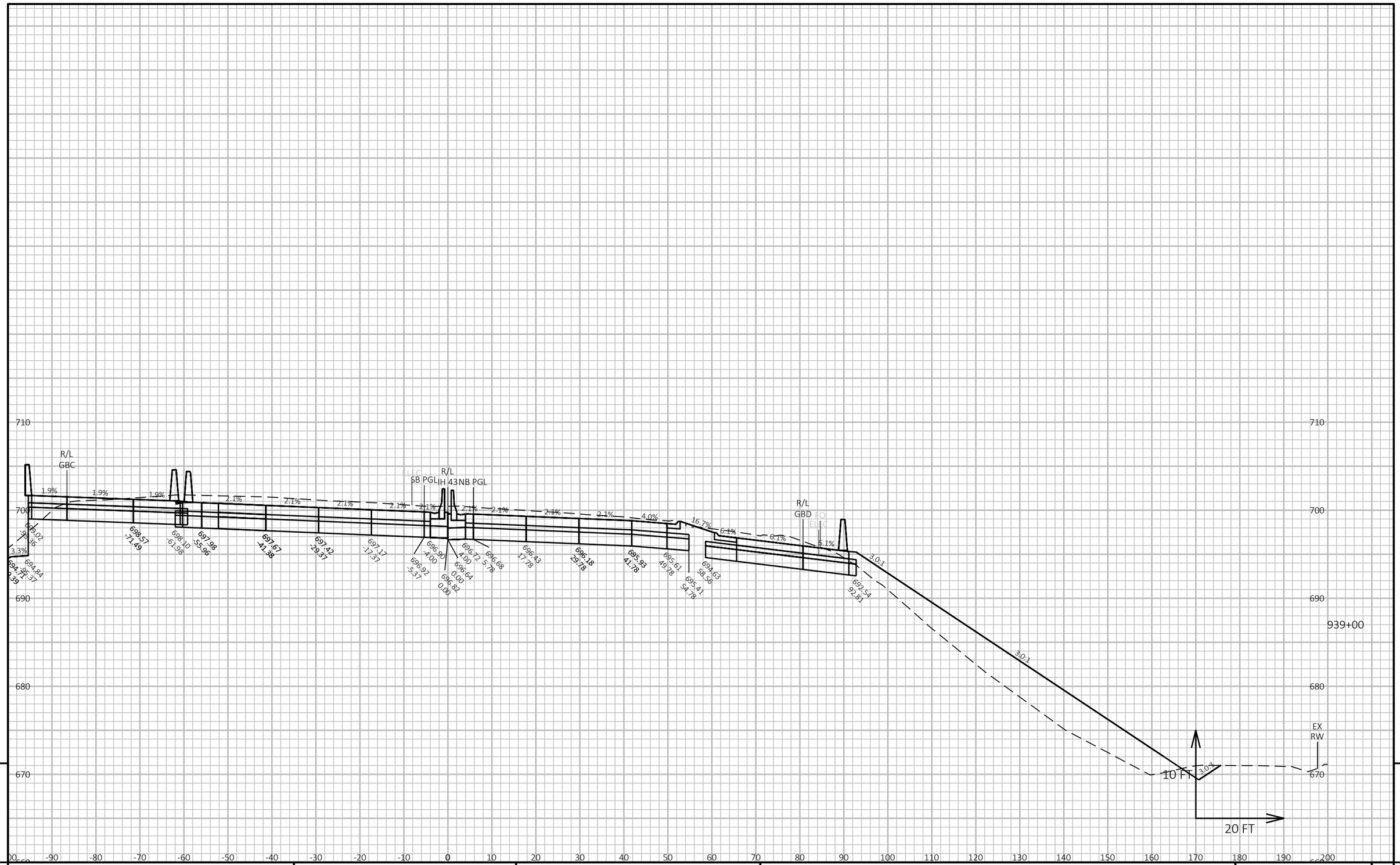


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET PRE_404 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 04

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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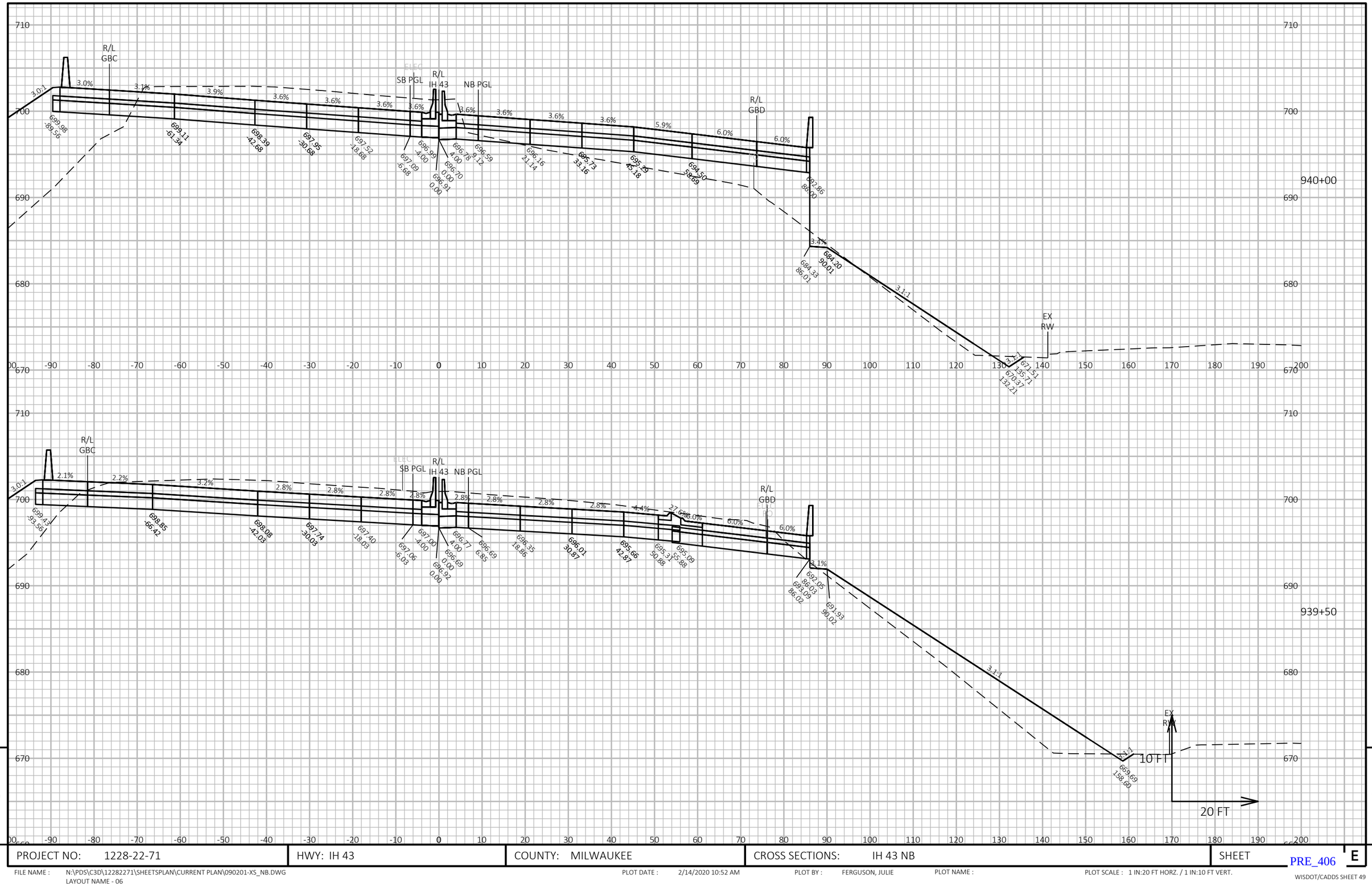
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_405

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



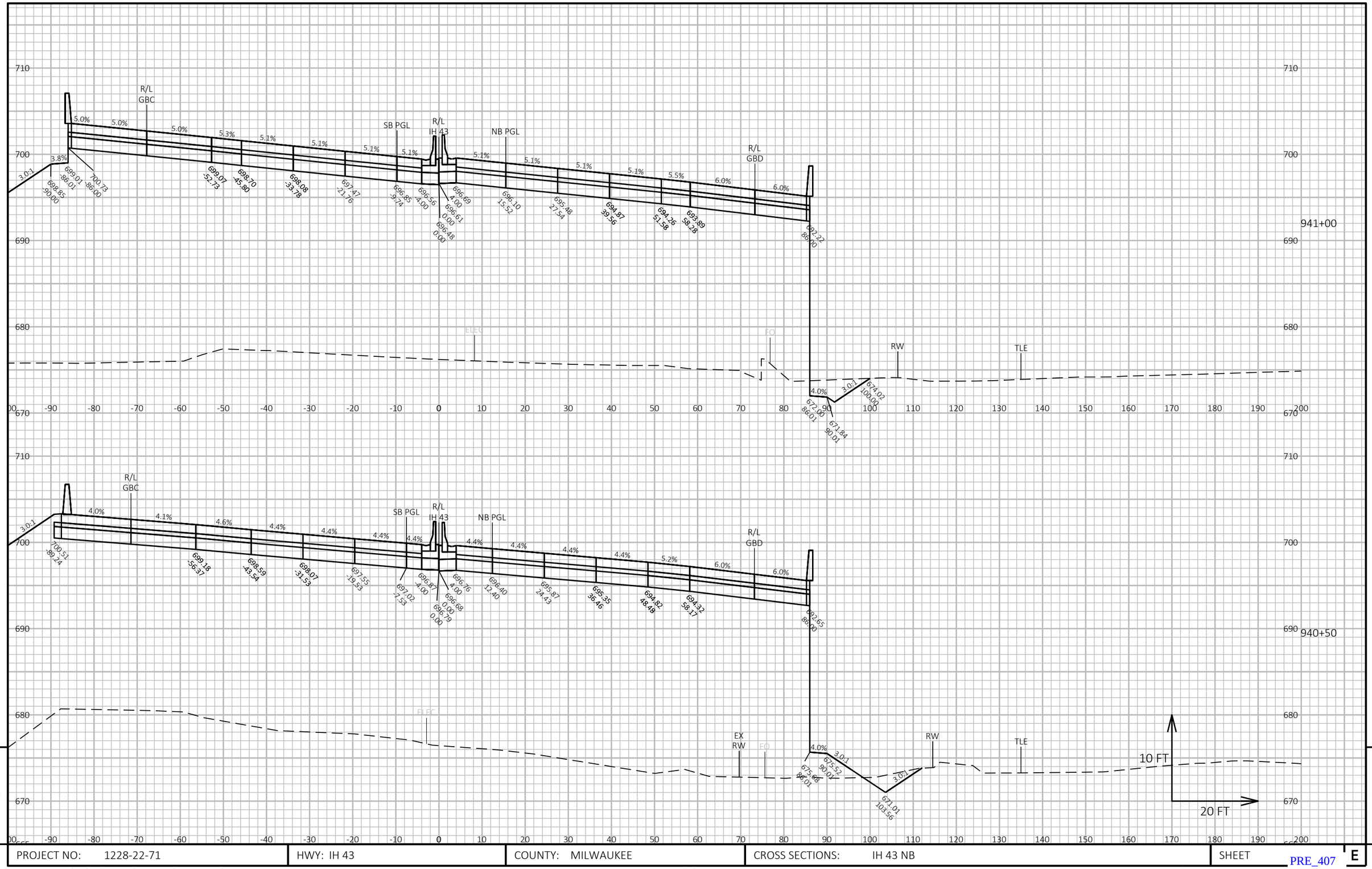
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 10:52 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_406

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_407

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 07

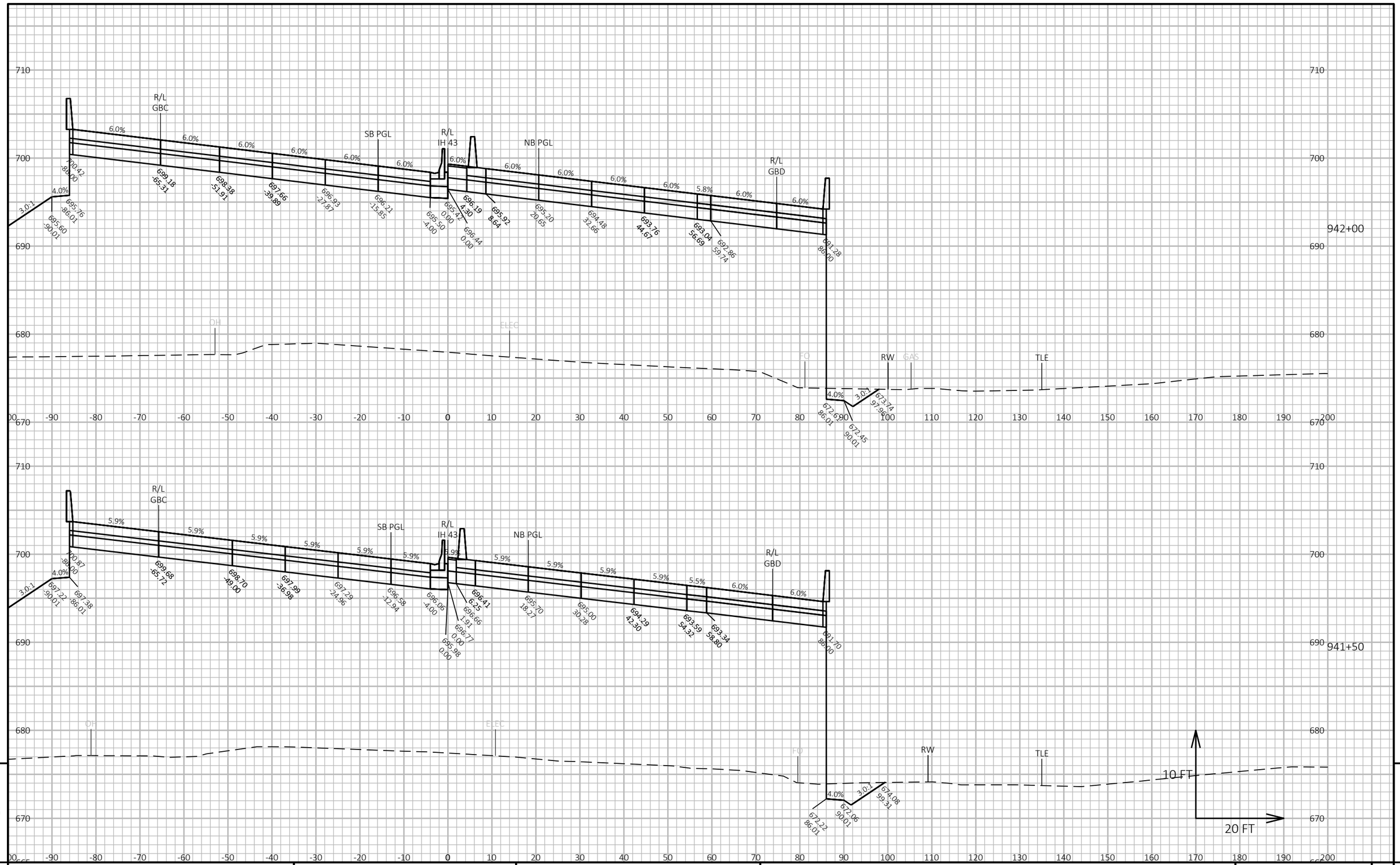
PLOT DATE : 2/14/2020 10:53 AM

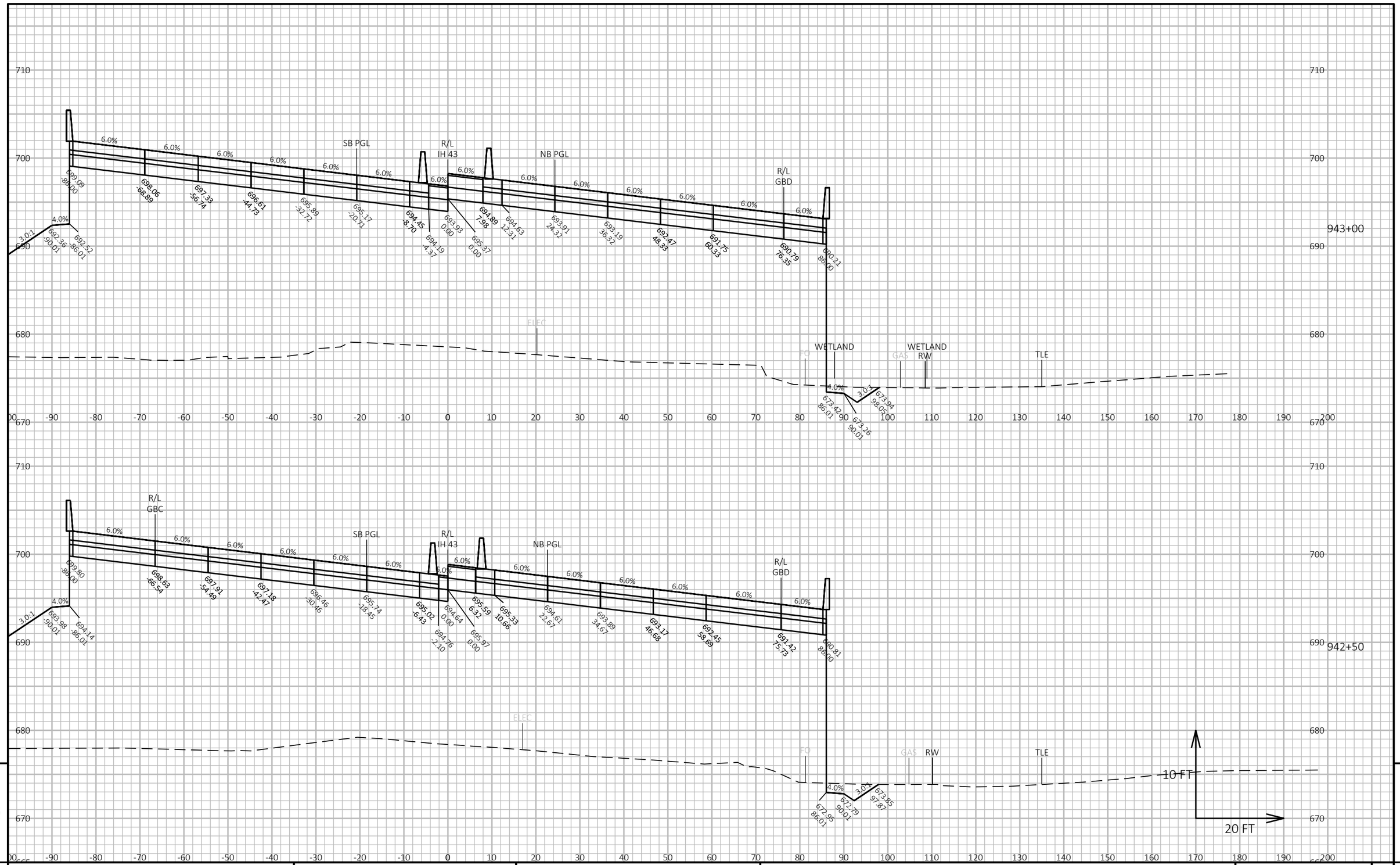
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49


942+00
941+50
R/L GBC
SB PGL
R/L IH 43
NB PGL
R/L GBD
OH
ELEC
FO
RW
GAS
TLE
10 FT
20 FT
6.0%
5.9%
5.8%
5.5%
4.0%
3.0:1
700.42 -80.00
699.18 -65.31
698.38 -51.91
697.66 -39.89
696.93 -27.87
696.21 -15.85
695.50 -4.00
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695.19 4.30
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672.06 90.01
674.08 99.31
PROJECT NO: 1228-22-71
HWY: IH 43
COUNTY: MILWAUKEE
CROSS SECTIONS: IH 43 NB
SHEET
PRE_408
E
FILE NAME : N:\PDS\C3D\12282771\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 08
PLOT DATE : 2/14/2020 10:53 AM
PLOT BY : FERGUSON, JULIE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



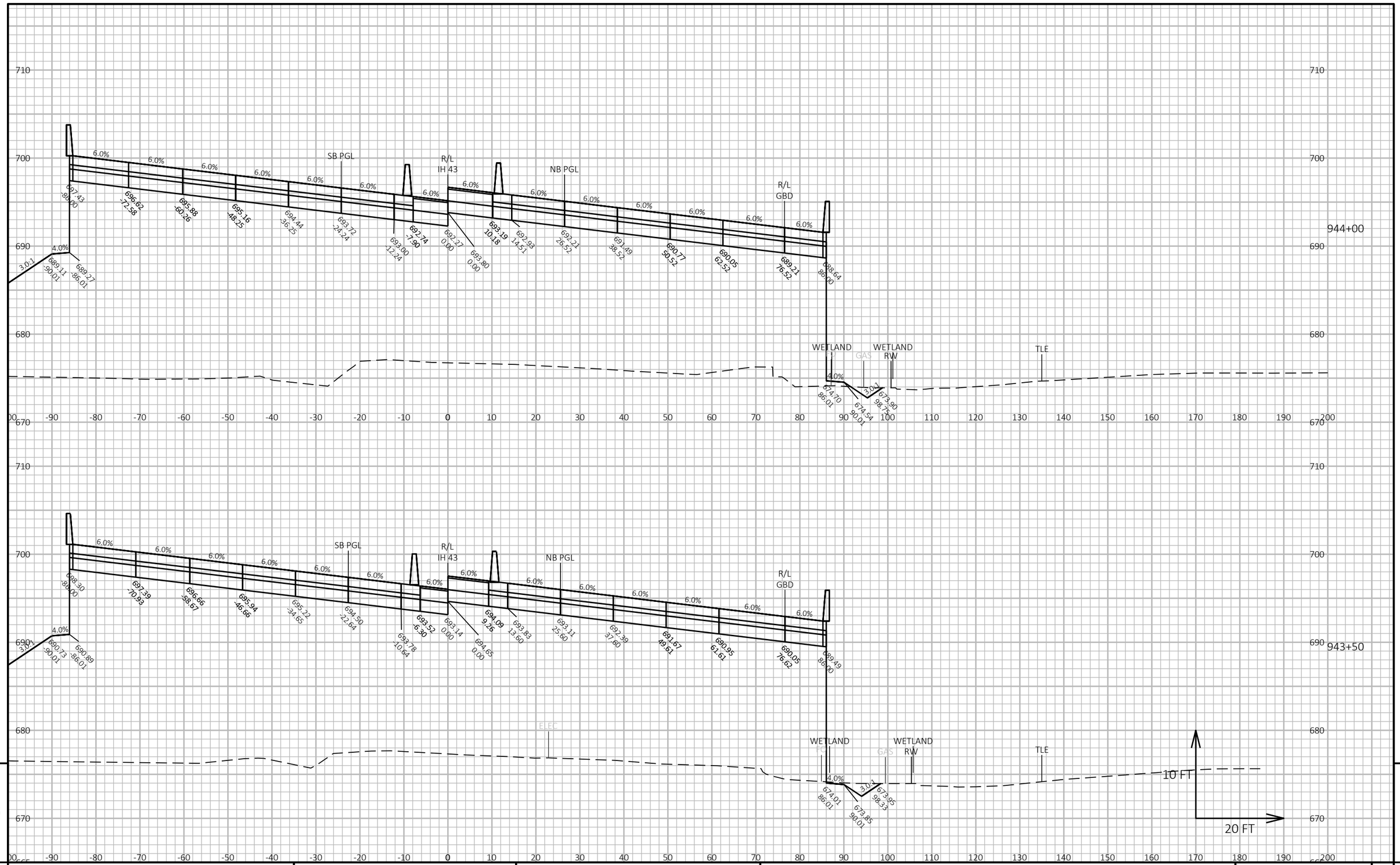
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_409

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 09

PLOT DATE : 2/14/2020 10:53 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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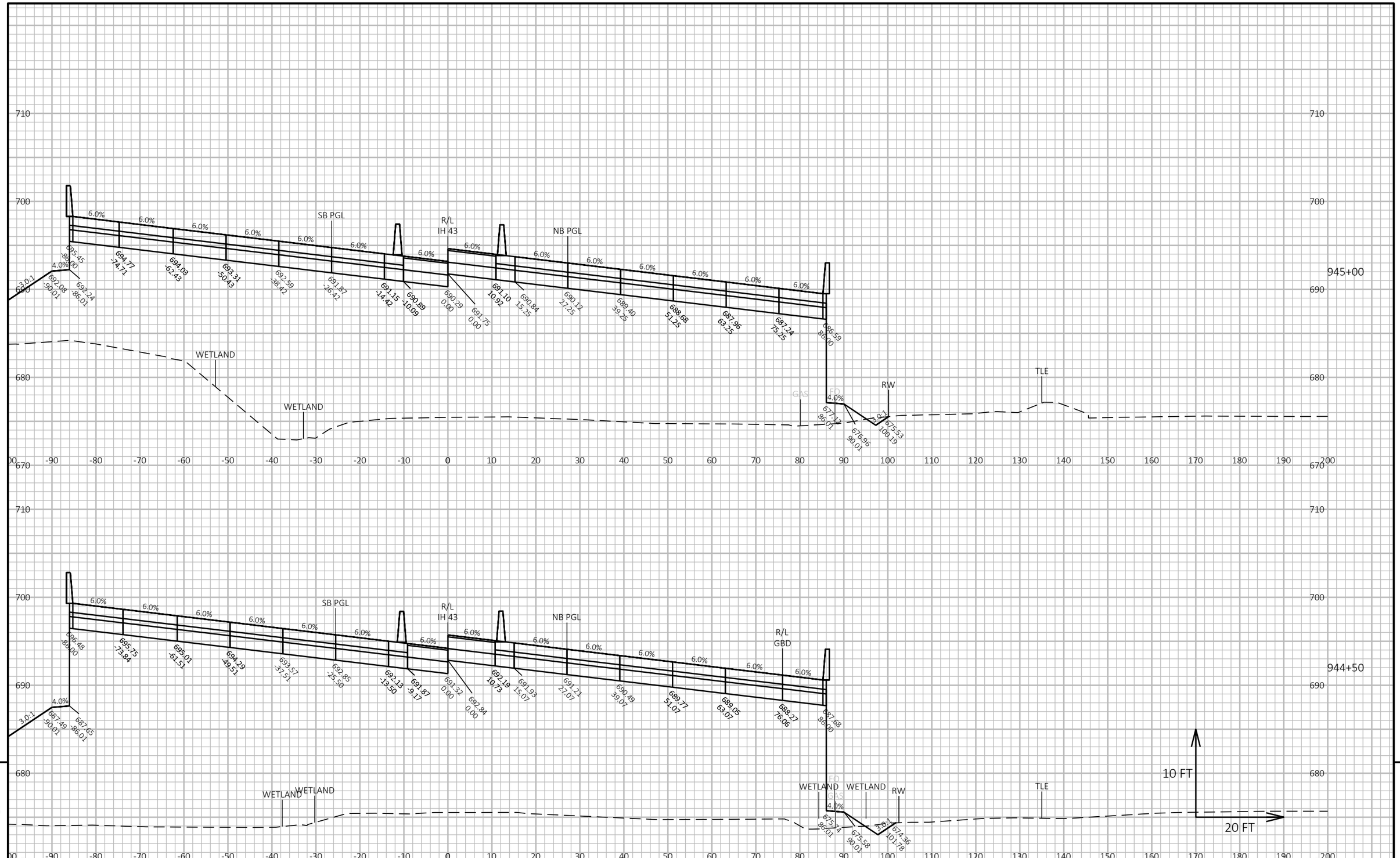
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 10

PLOT DATE : 2/14/2020 10:53 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_410

WISDOT/CADDS SHEET 49



9

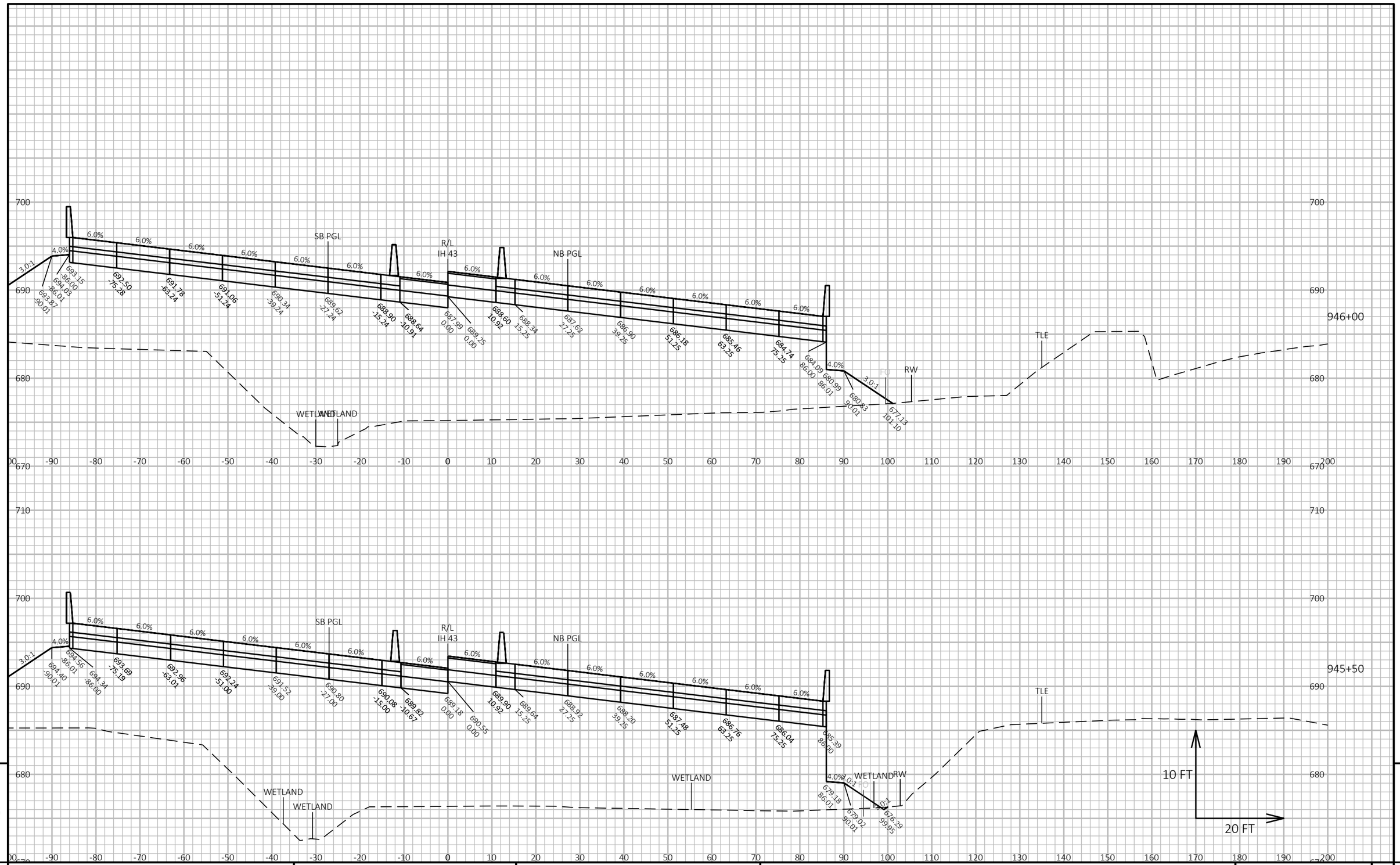
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 11

PLOT DATE : 2/14/2020 10:53 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_411

WISDOT/CADDS SHEET 49

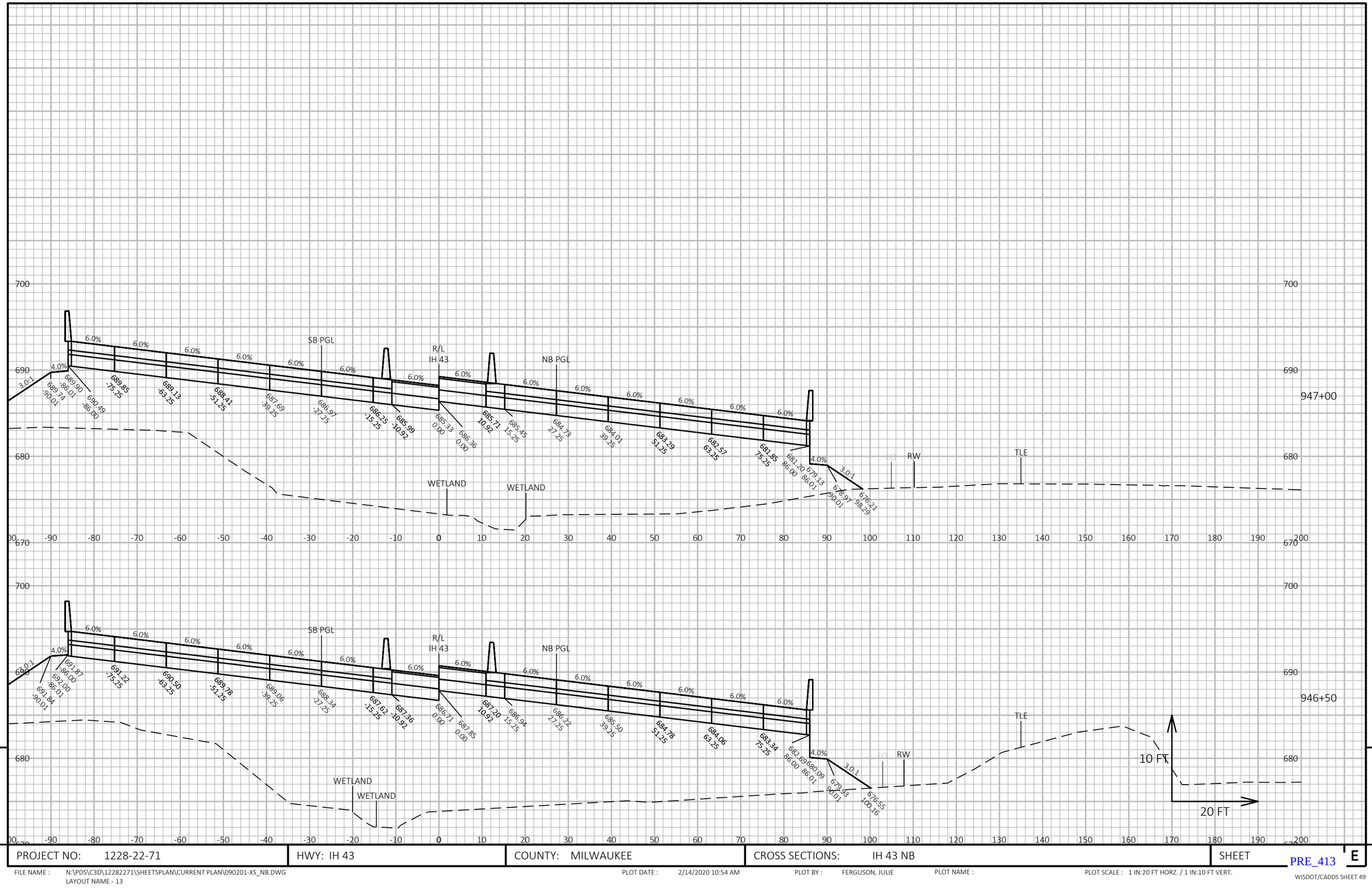


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET PRE_412 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 12

PLOT DATE : 2/14/2020 10:53 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_413

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 13

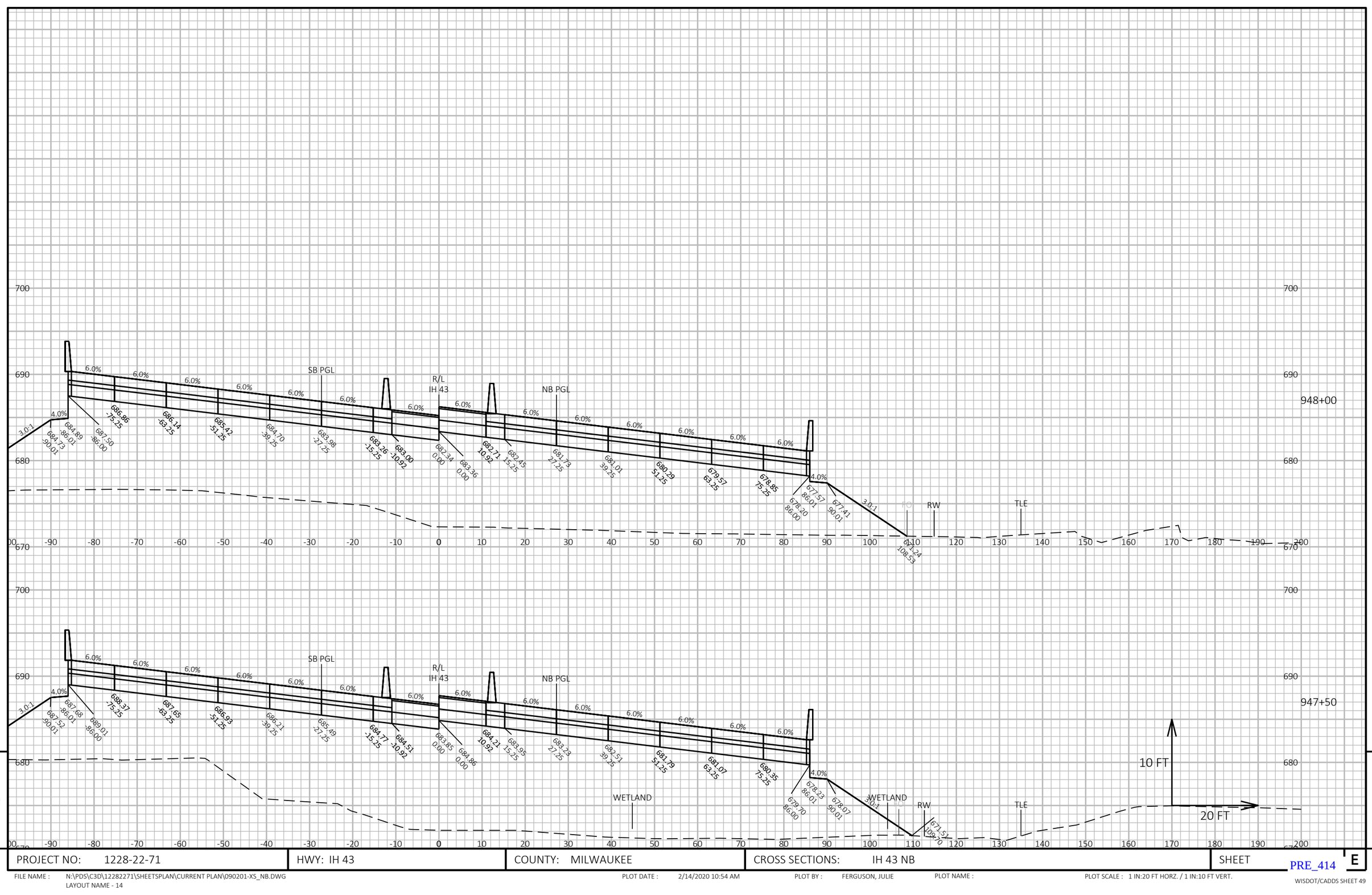
PLOT DATE : 2/14/2020 10:54 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



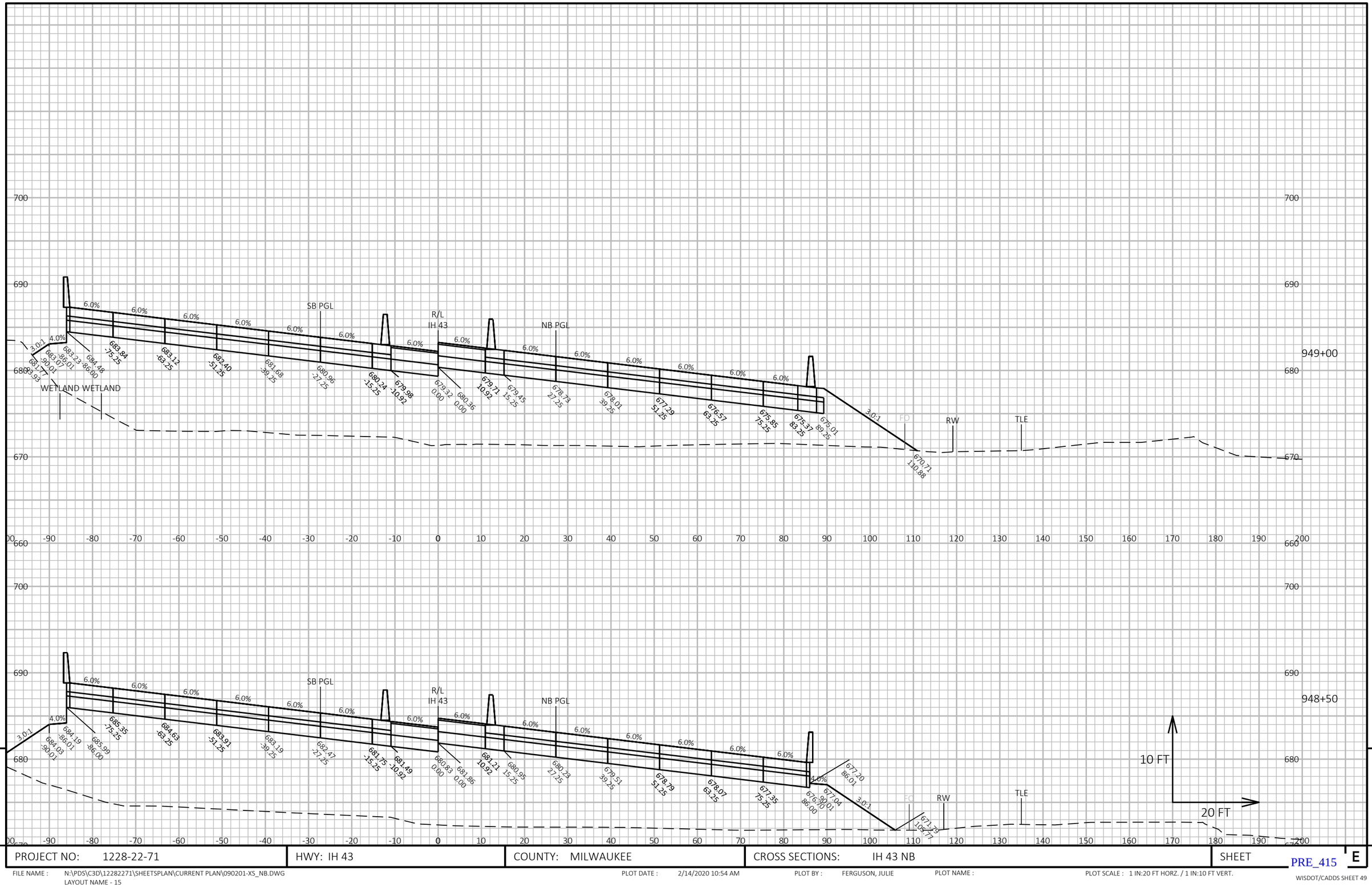
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 14

PLOT DATE : 2/14/2020 10:54 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_414

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 15

PLOT DATE : 2/14/2020 10:54 AM

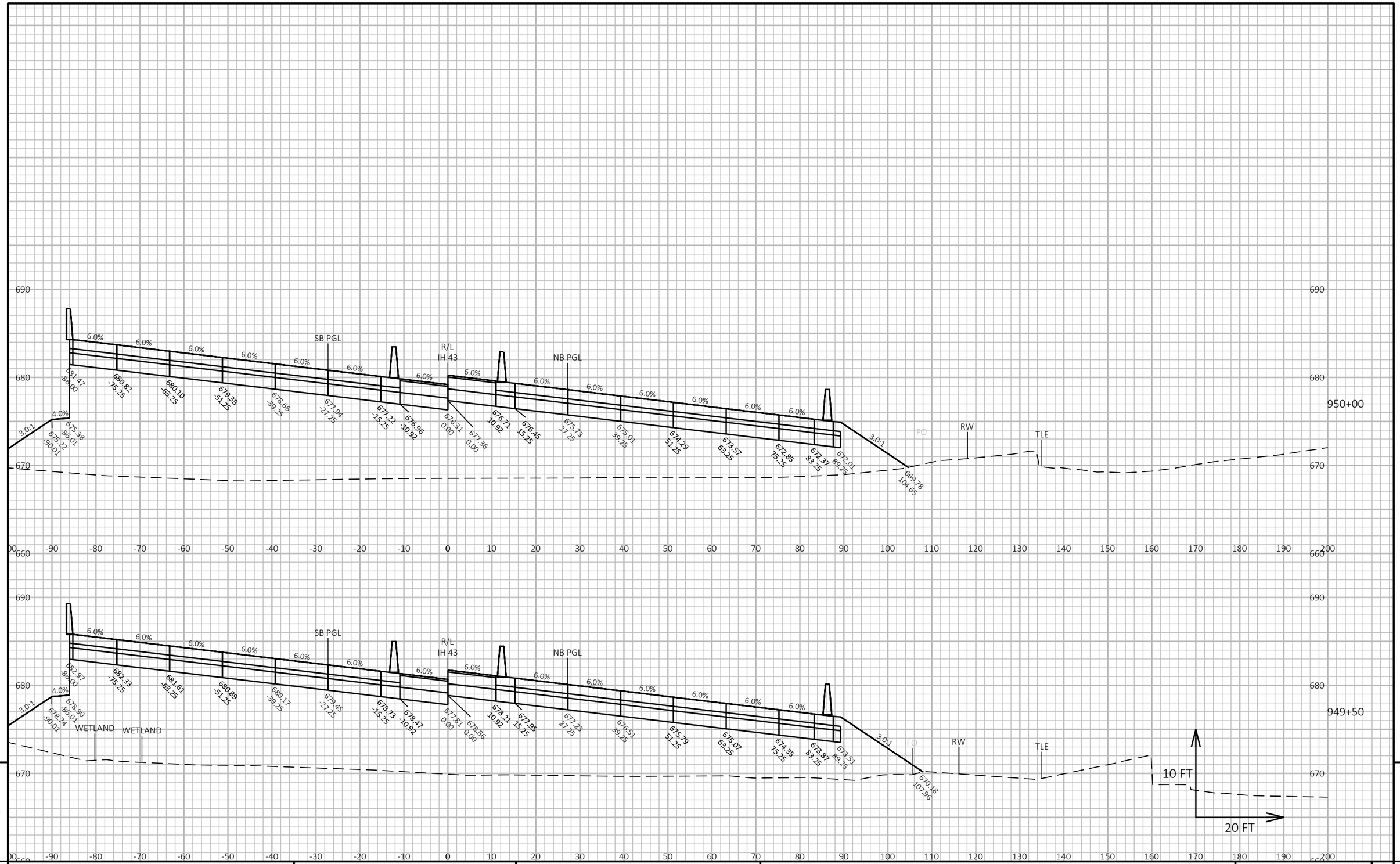
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_415

WISDOT/CADDS SHEET 49



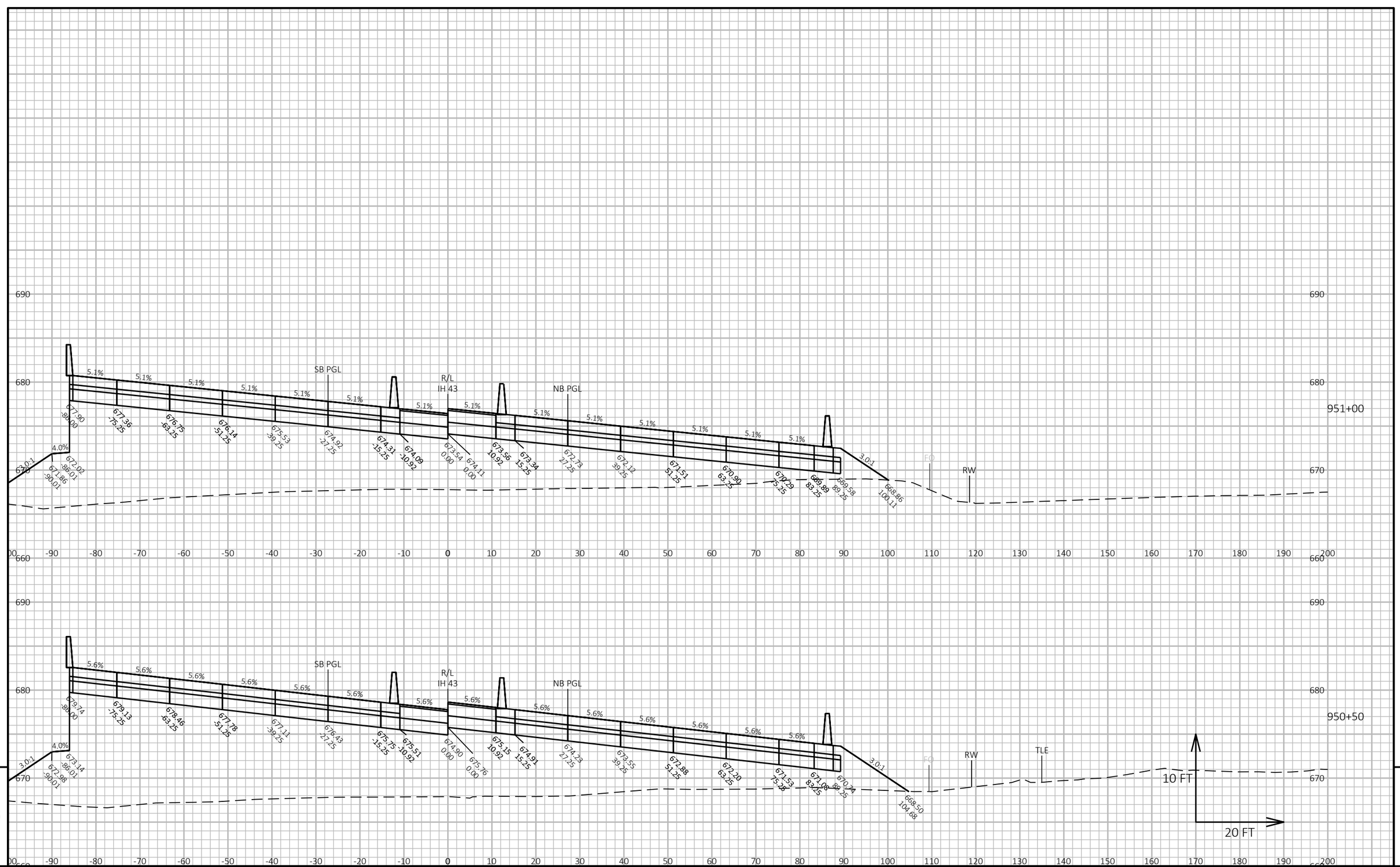
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 16

PLOT DATE : 2/14/2020 10:54 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_416

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 17

PLOT DATE : 2/14/2020 10:54 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_417

WISDOT/CADDS SHEET 49

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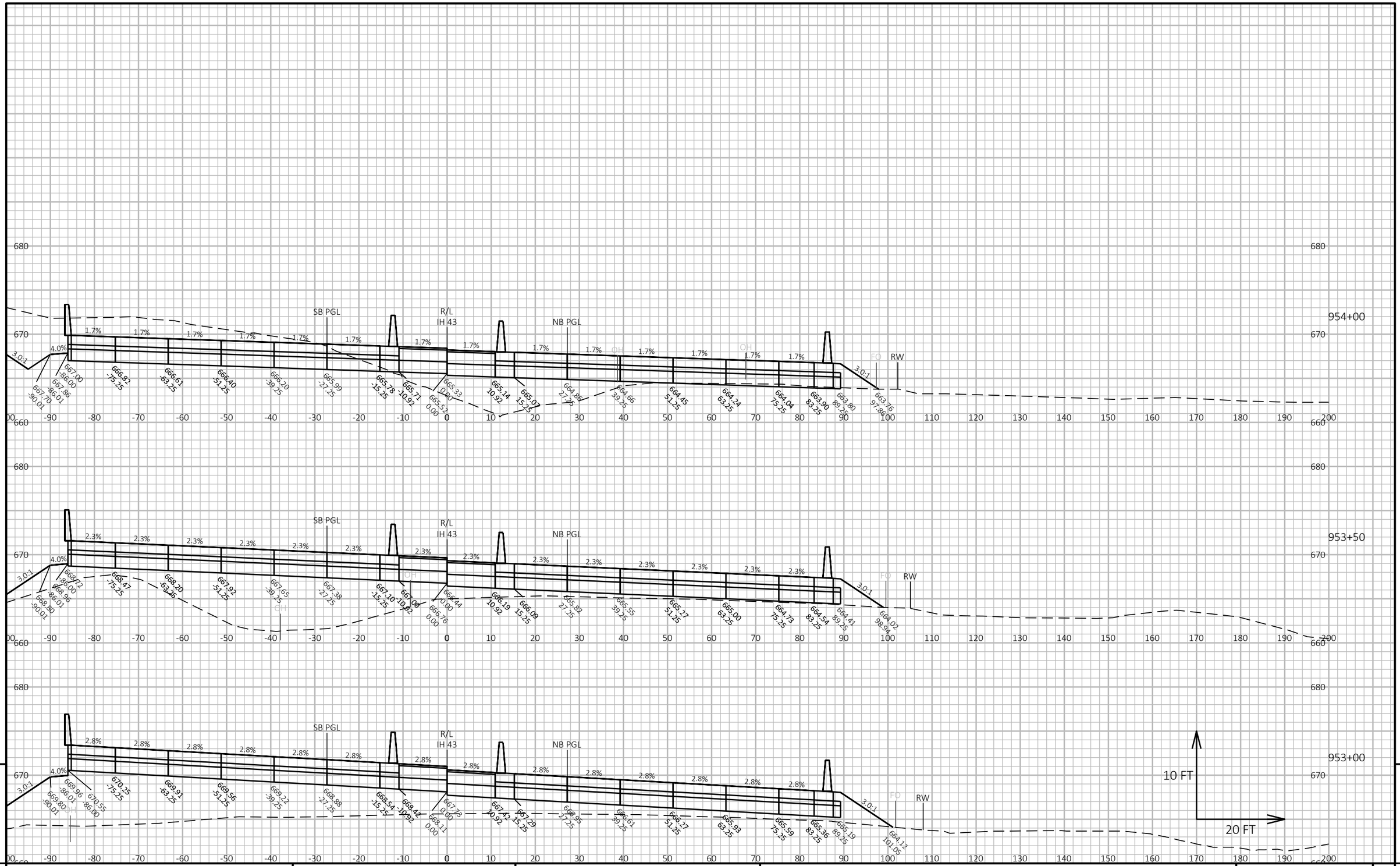
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_418

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 18

PLOT DATE : 2/14/2020 10:54 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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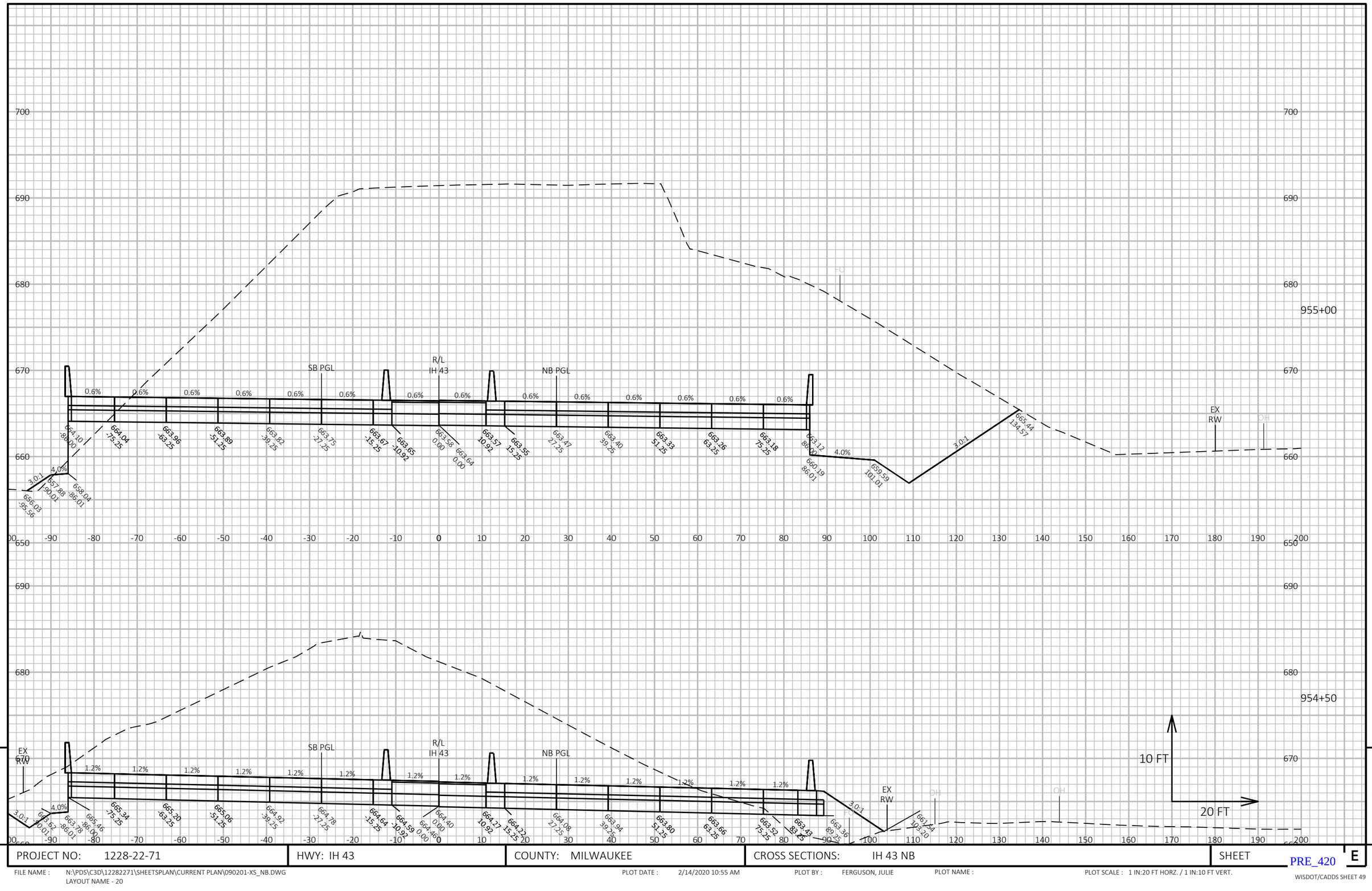
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_419

FILE NAME : N:\PDS\C3D\12282771\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 19

PLOT DATE : 2/14/2020 10:55 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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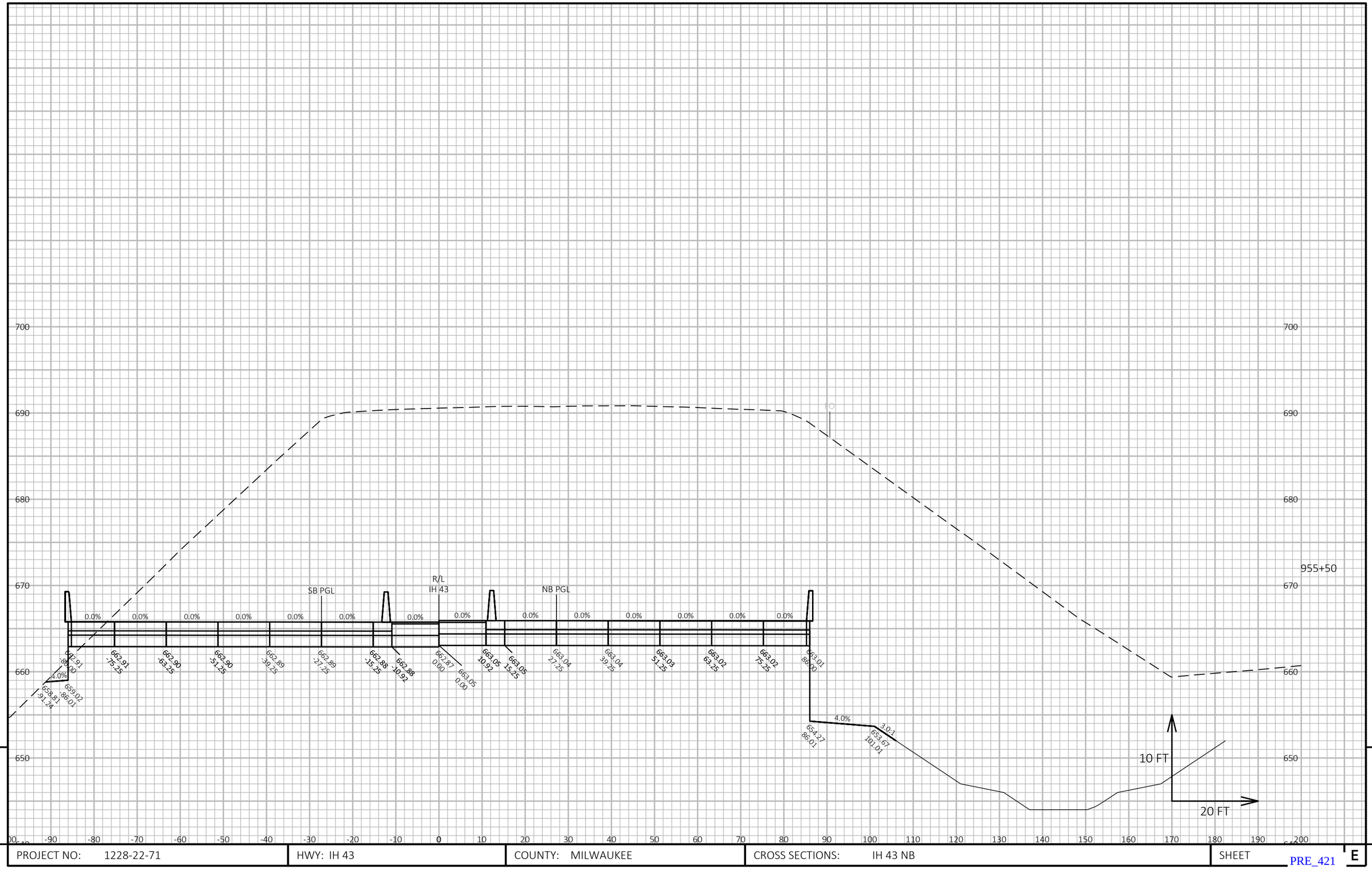
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 20

PLOT DATE : 2/14/2020 10:55 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_420

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 21

PLOT DATE : 2/14/2020 10:55 AM

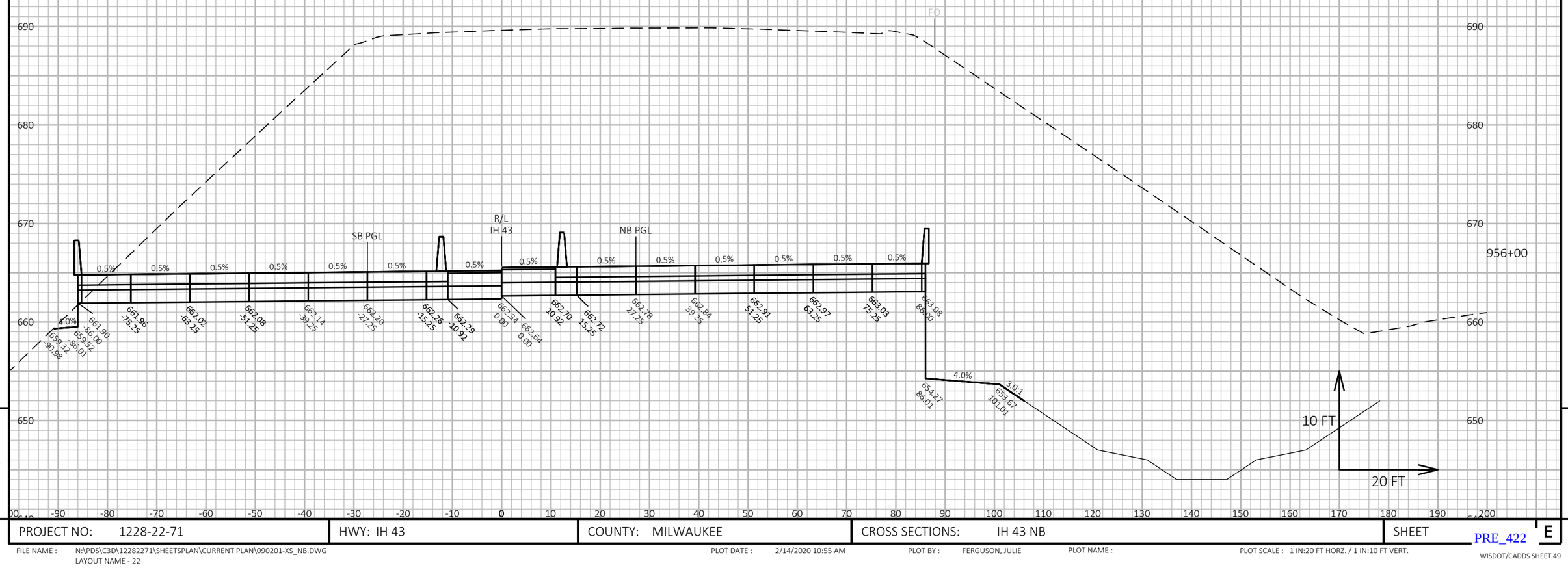
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_421

WISDOT/CADDS SHEET 49



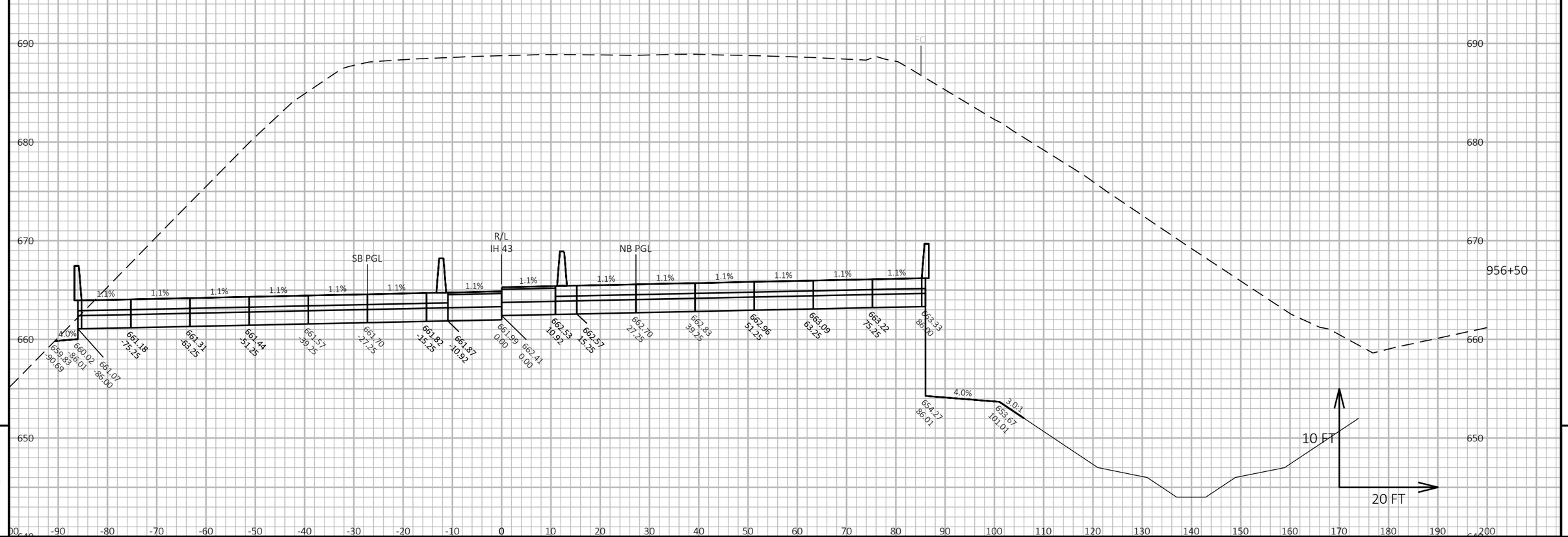
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 22

PLOT DATE : 2/14/2020 10:55 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_422



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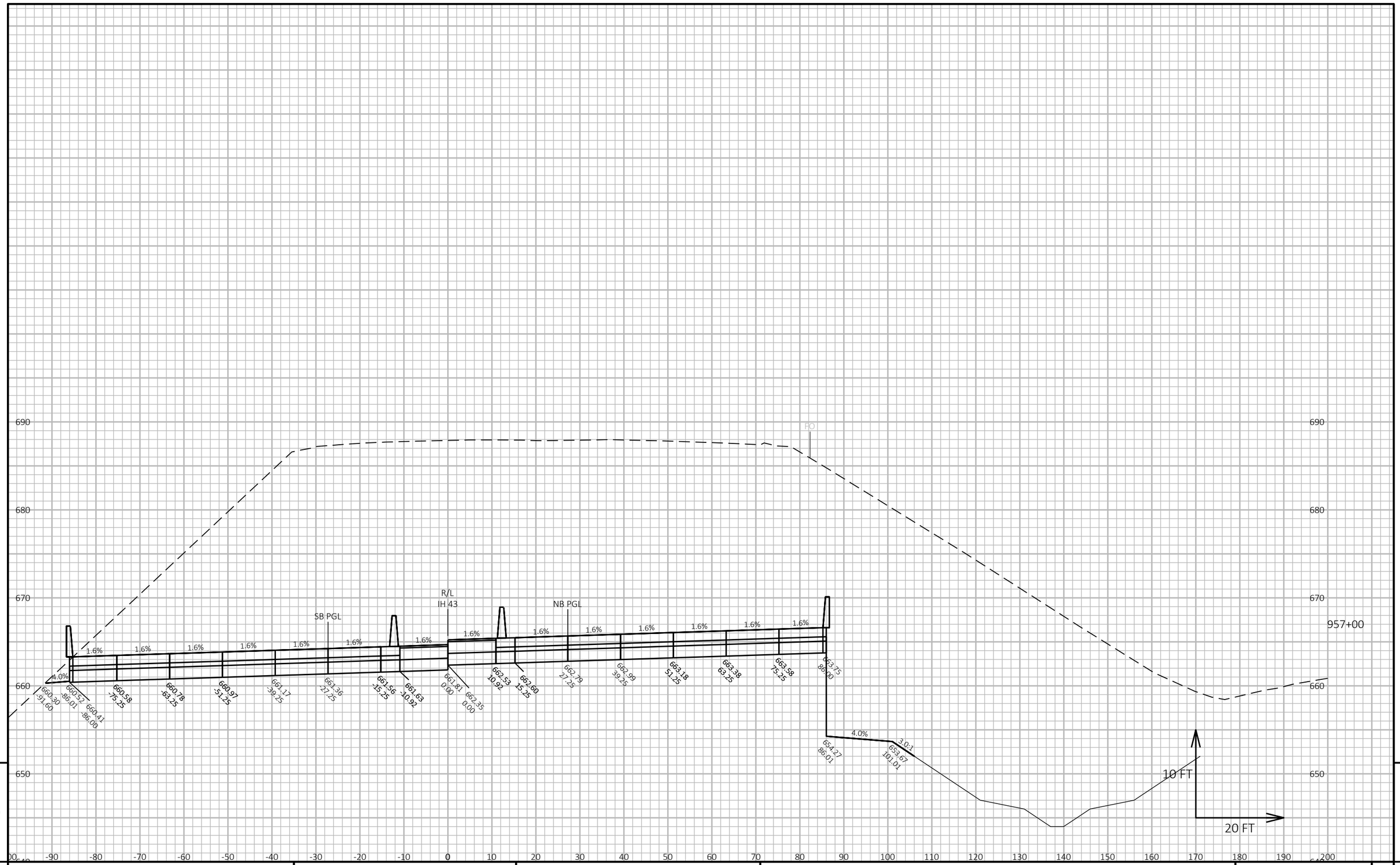
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_423

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 23

PLOT DATE : 2/14/2020 10:55 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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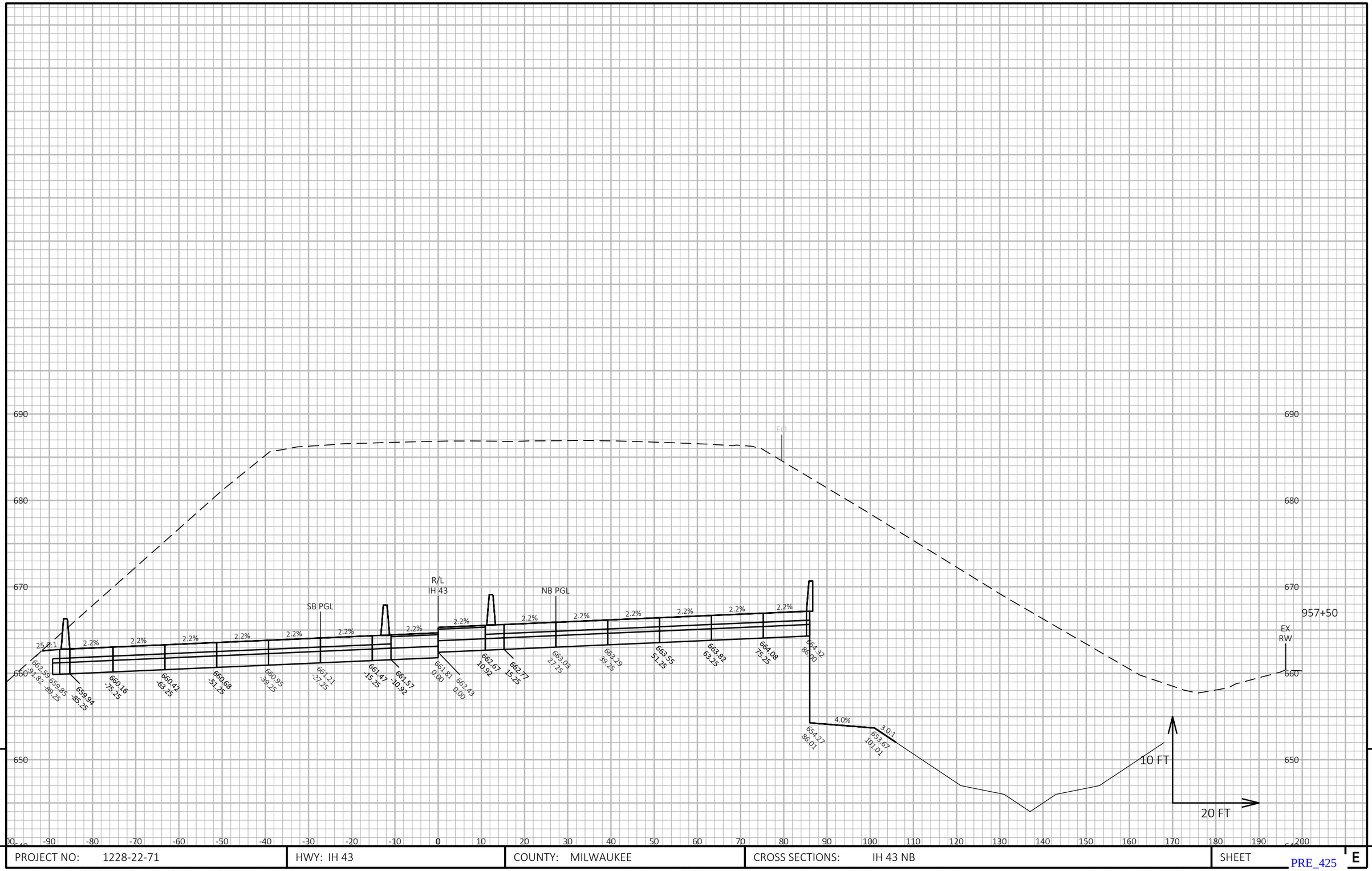
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_424

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 24

PLOT DATE : 2/14/2020 10:55 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 25

PLOT DATE : 2/14/2020 10:56 AM

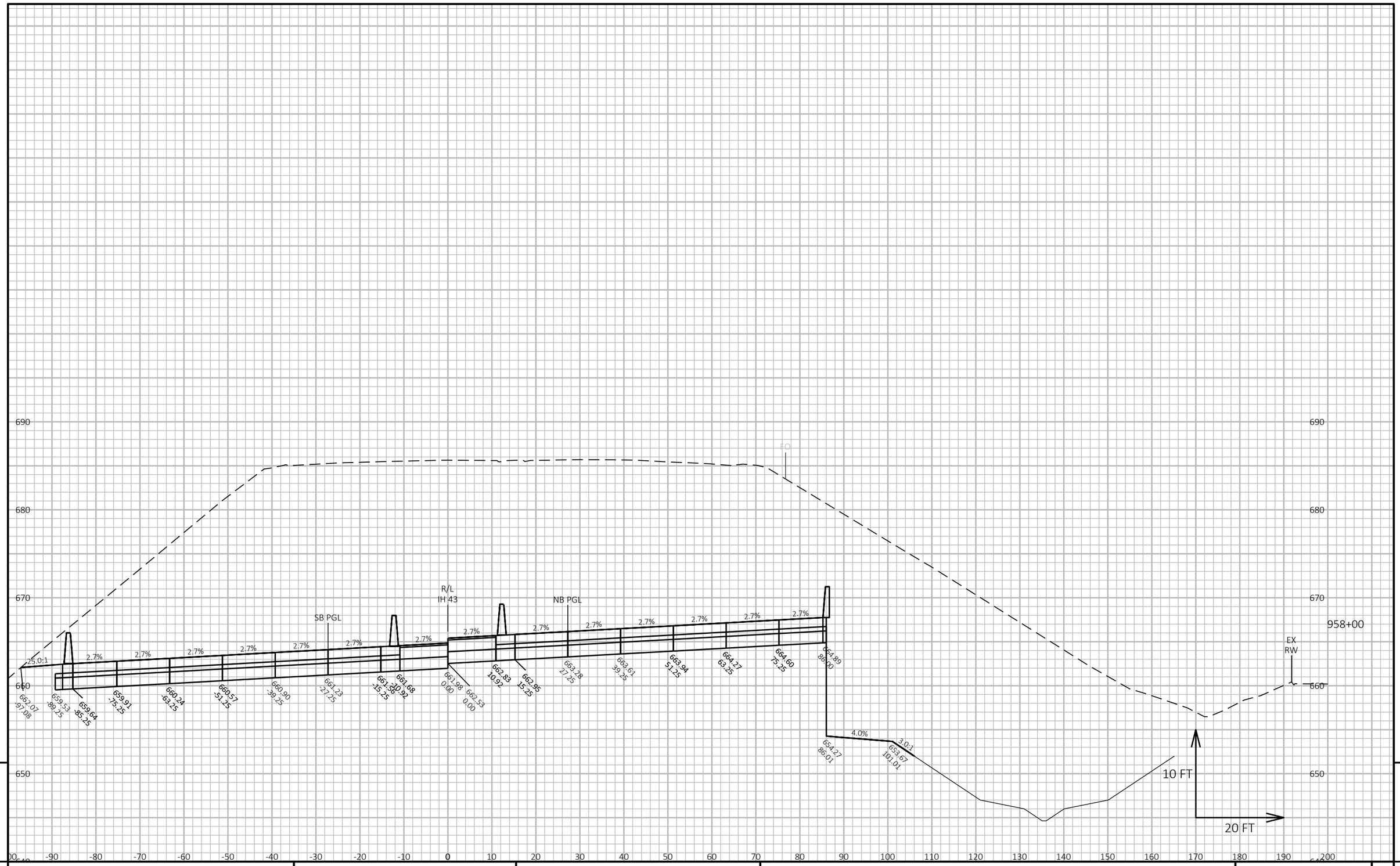
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_425

WISDOT/CADDS SHEET 49



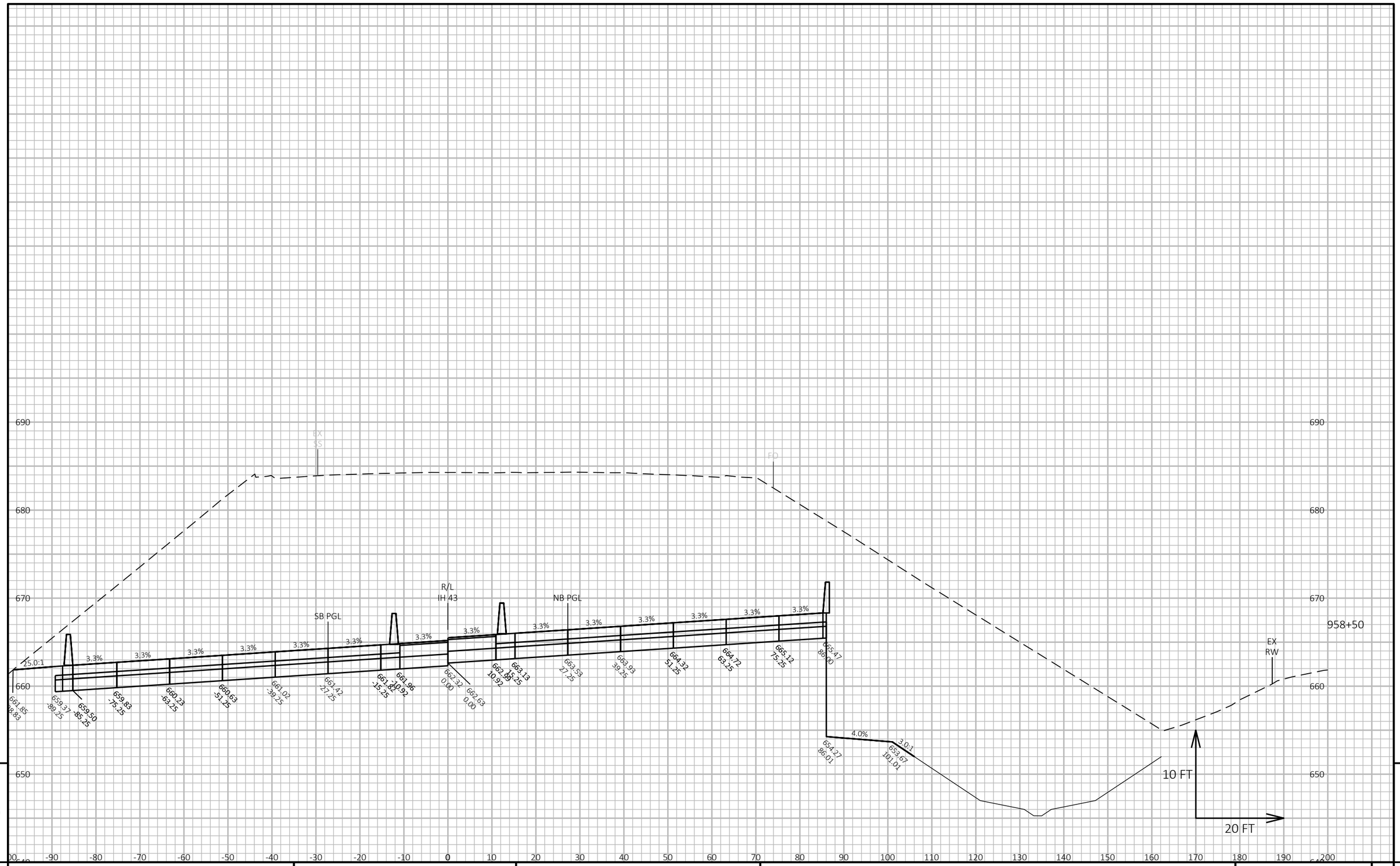
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_426

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 26

PLOT DATE : 2/14/2020 10:56 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9 9

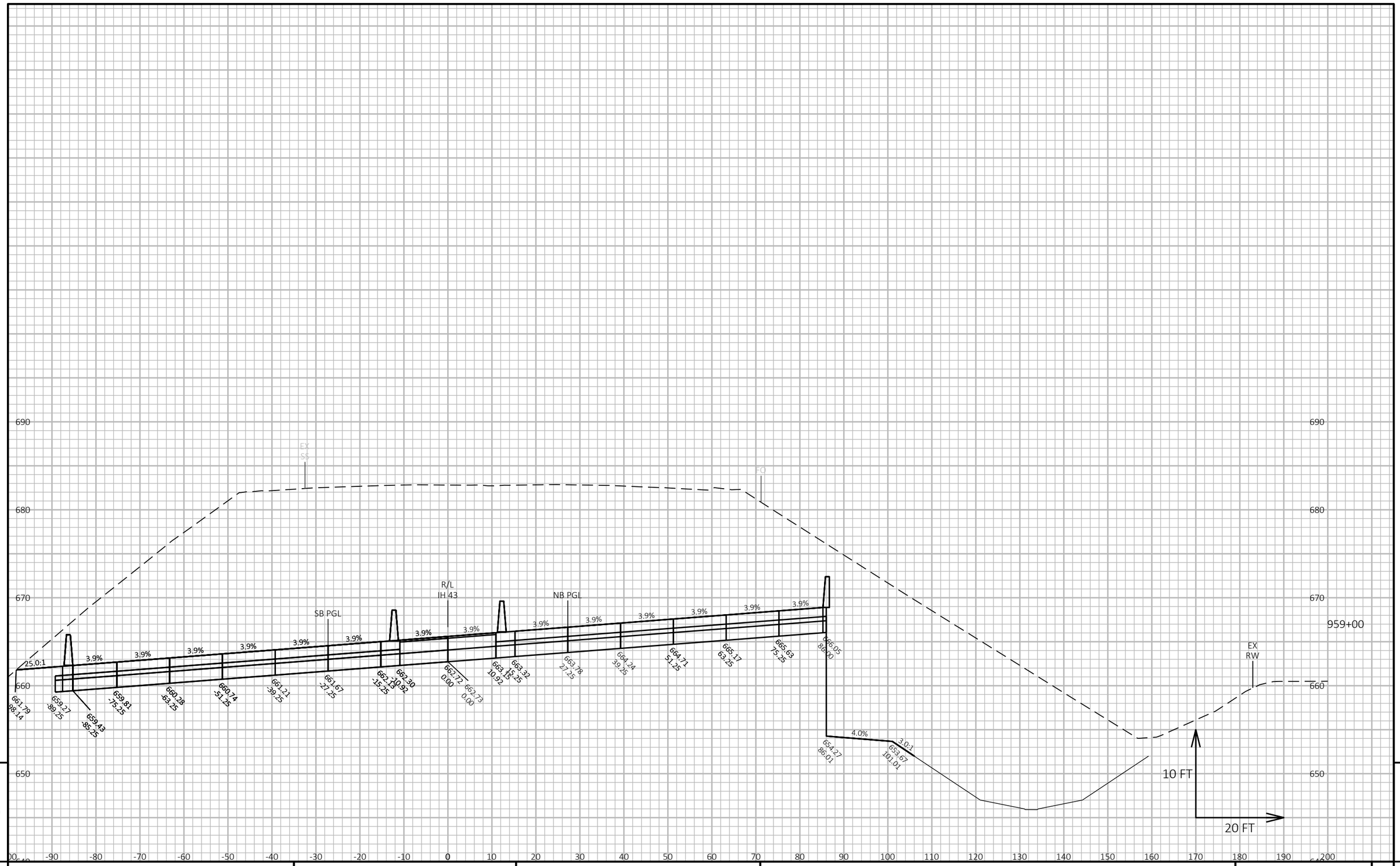
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_427

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 27

PLOT DATE : 2/14/2020 10:56 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



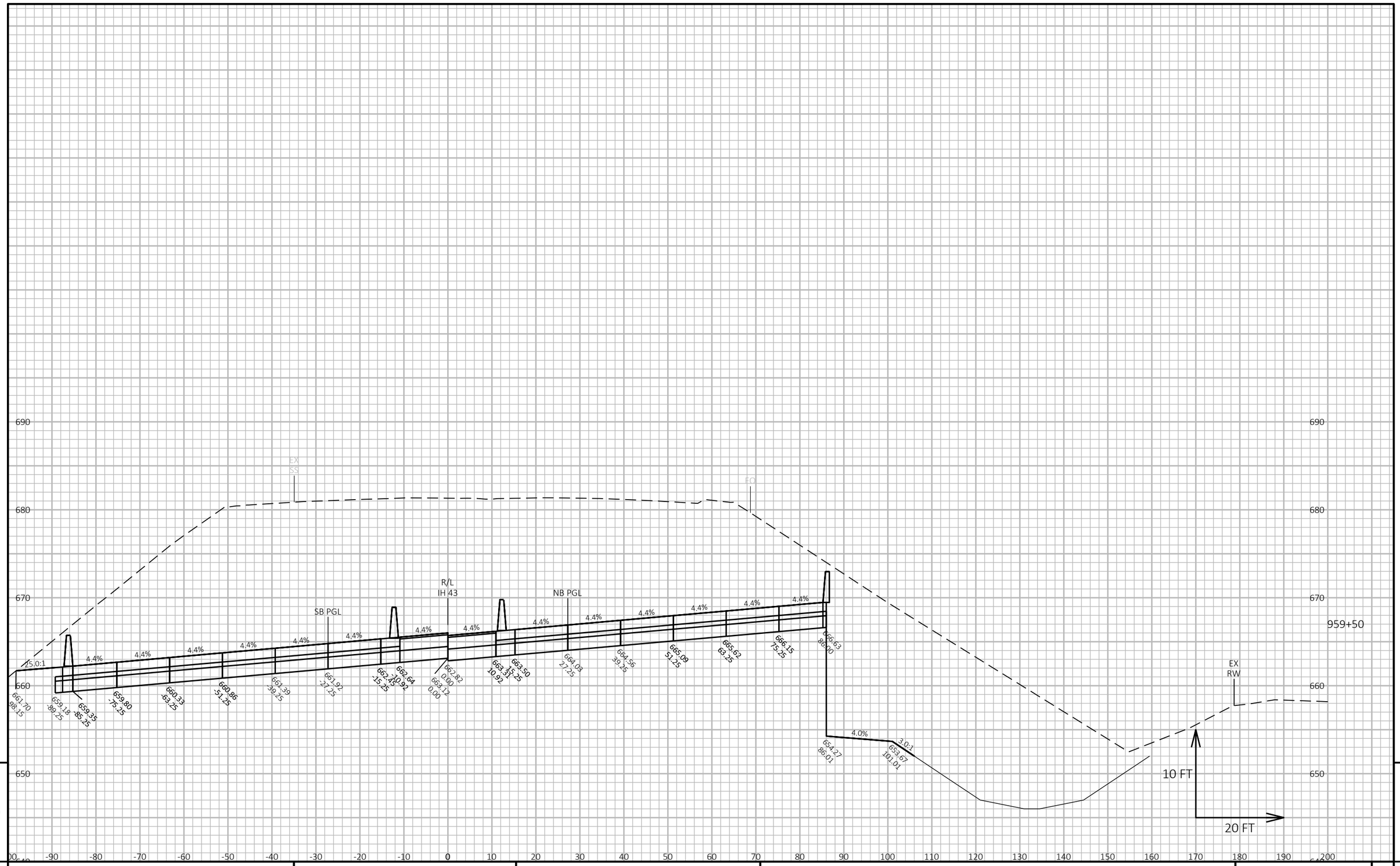
9 9

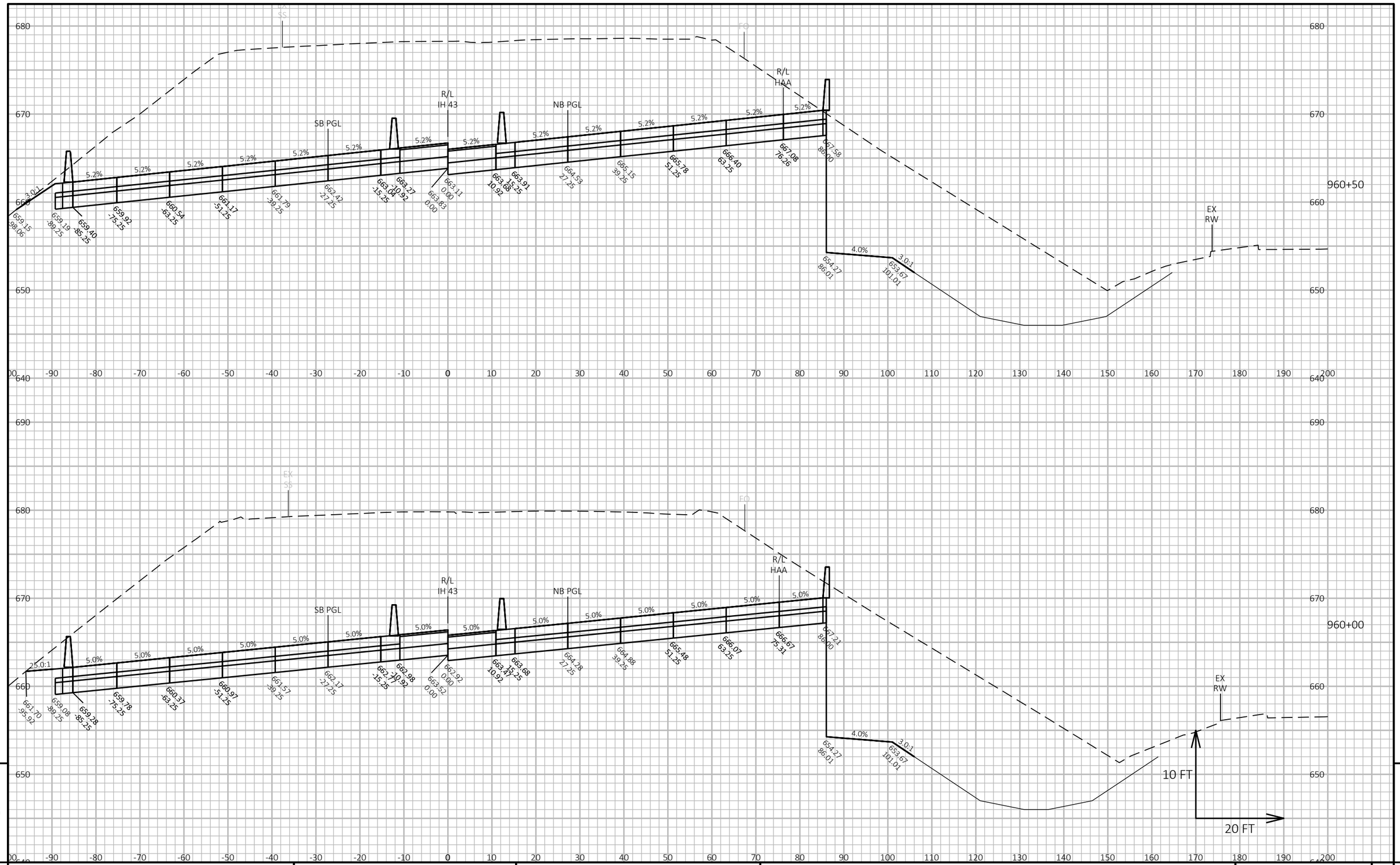
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_428

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 28

PLOT DATE : 2/14/2020 10:56 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.


690
690
EX
SS
FO
680
680
670
670
R/L
IH 43
SB PGL
NB PGL
959+50
4.4%
4.4%
4.4%



9

9

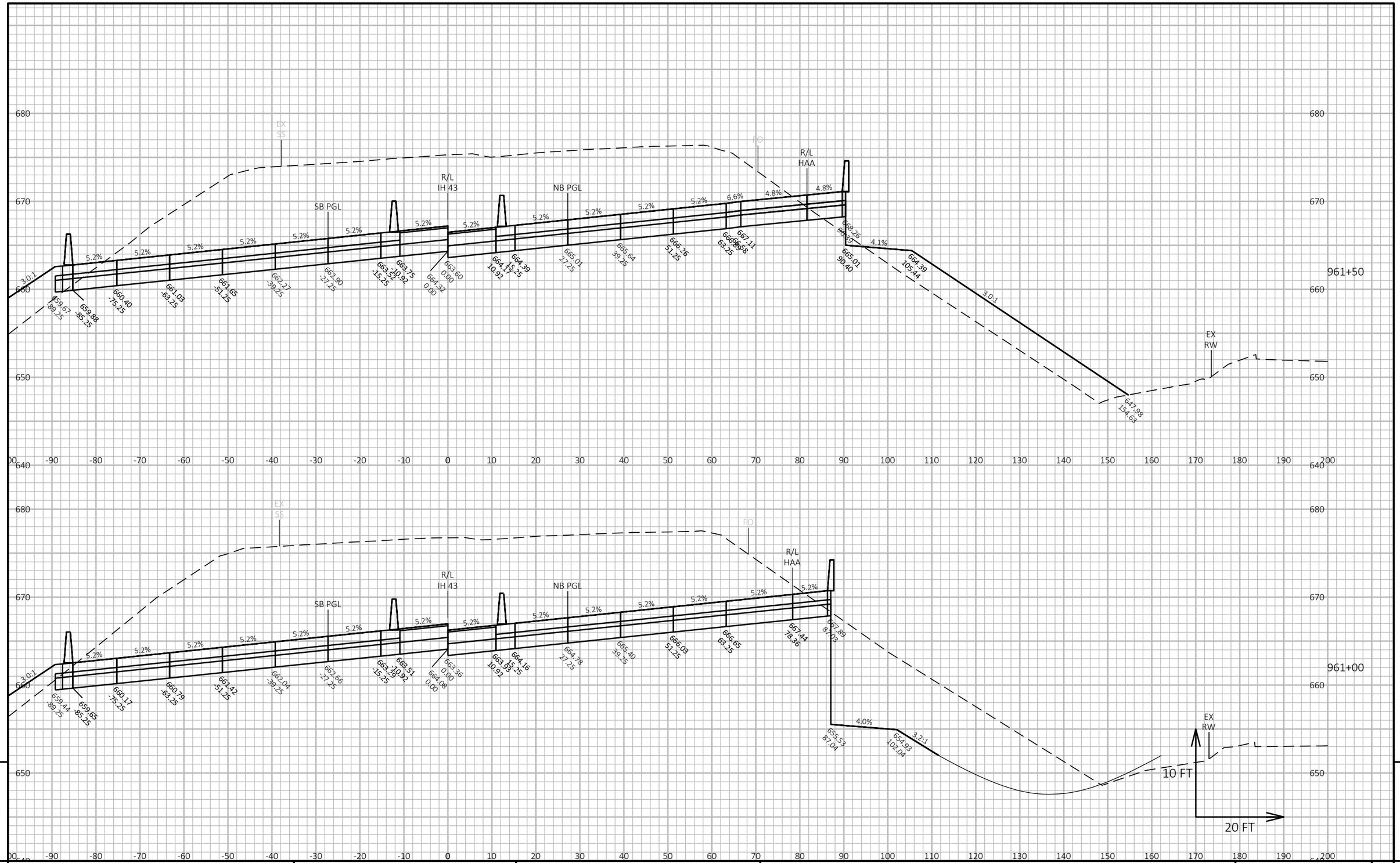
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_430

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 30

PLOT DATE : 2/14/2020 10:56 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



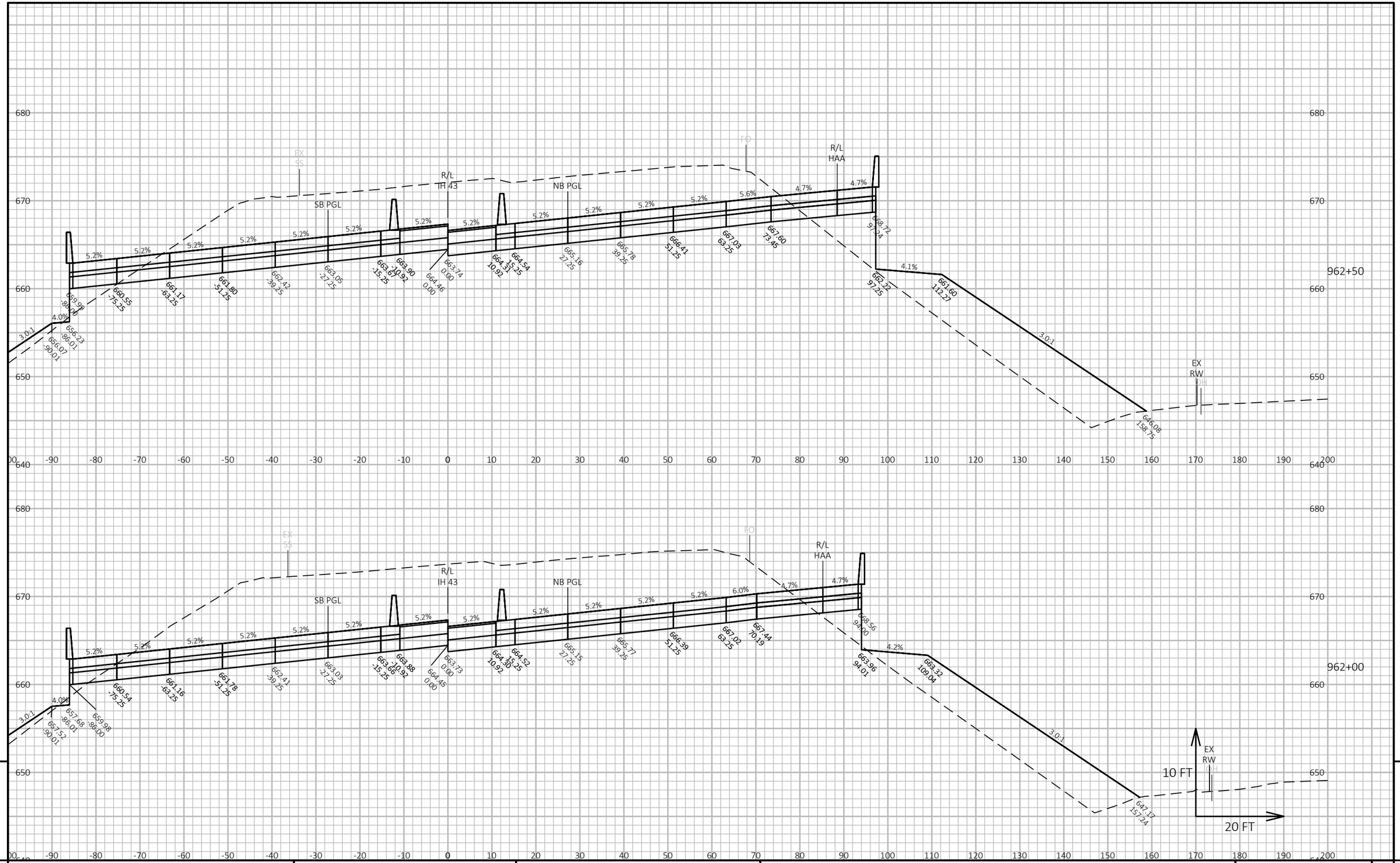
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_431

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 31

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



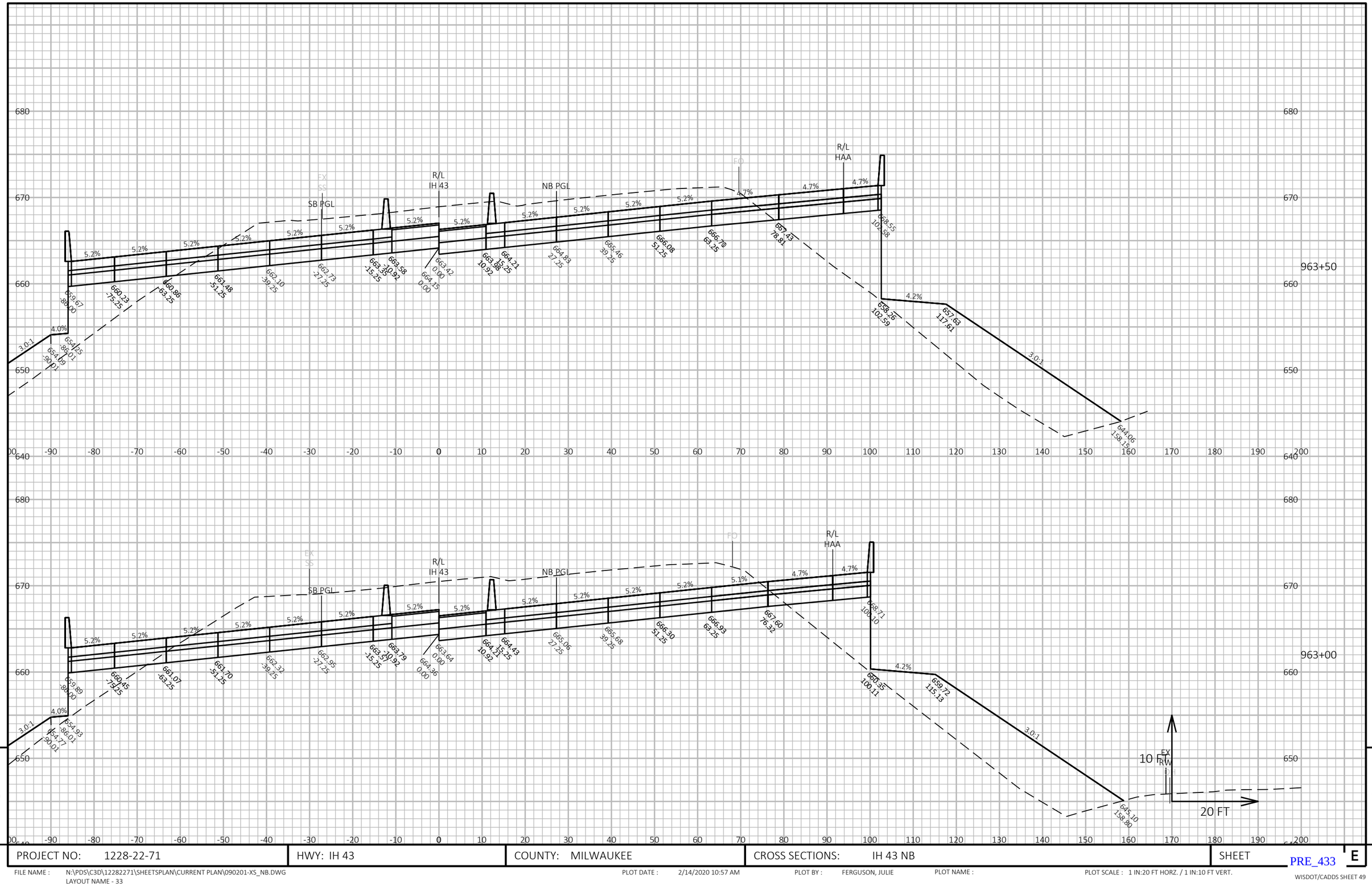
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_432

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 32

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



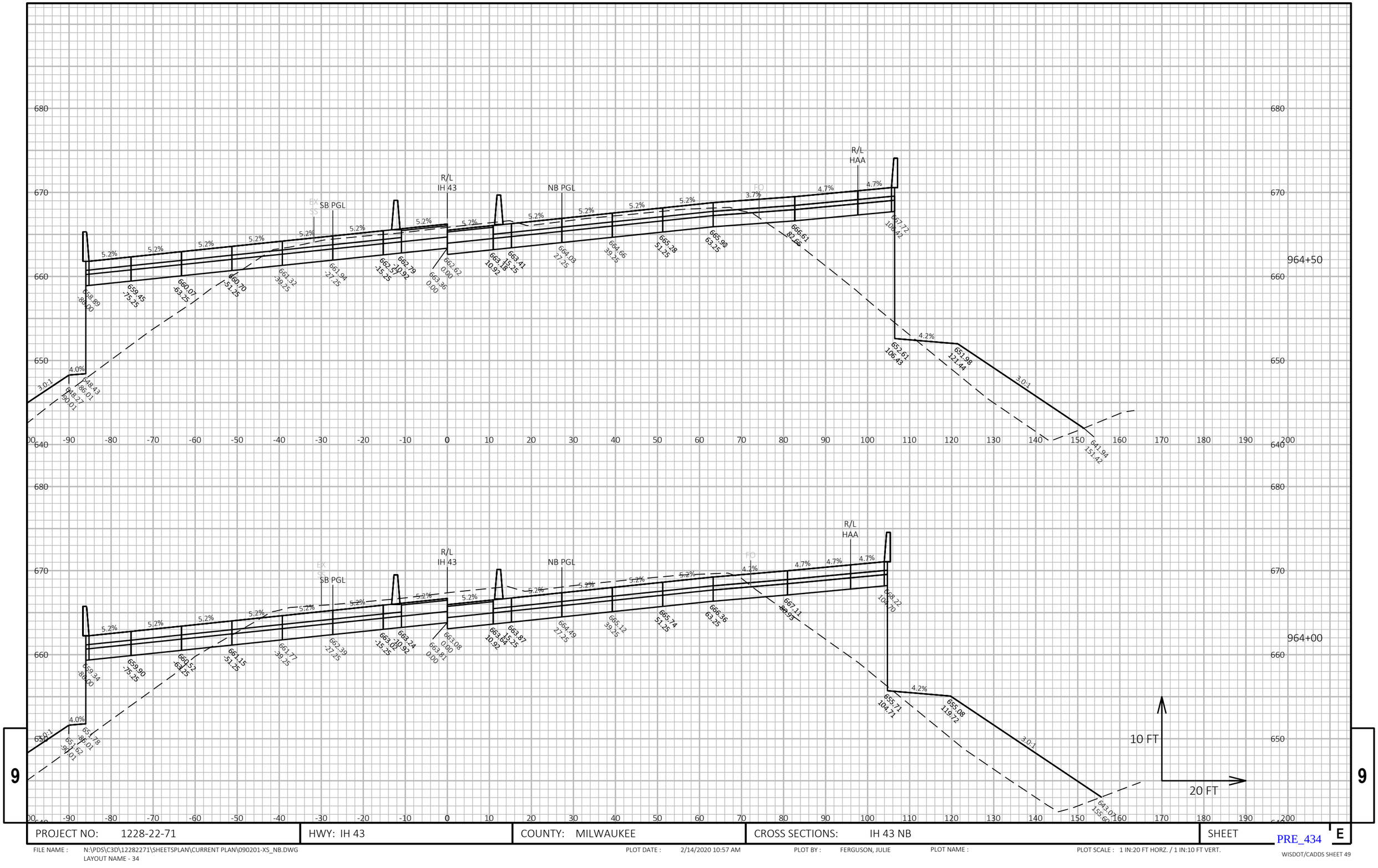
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 33

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_433

WISDOT/CADDS SHEET 49



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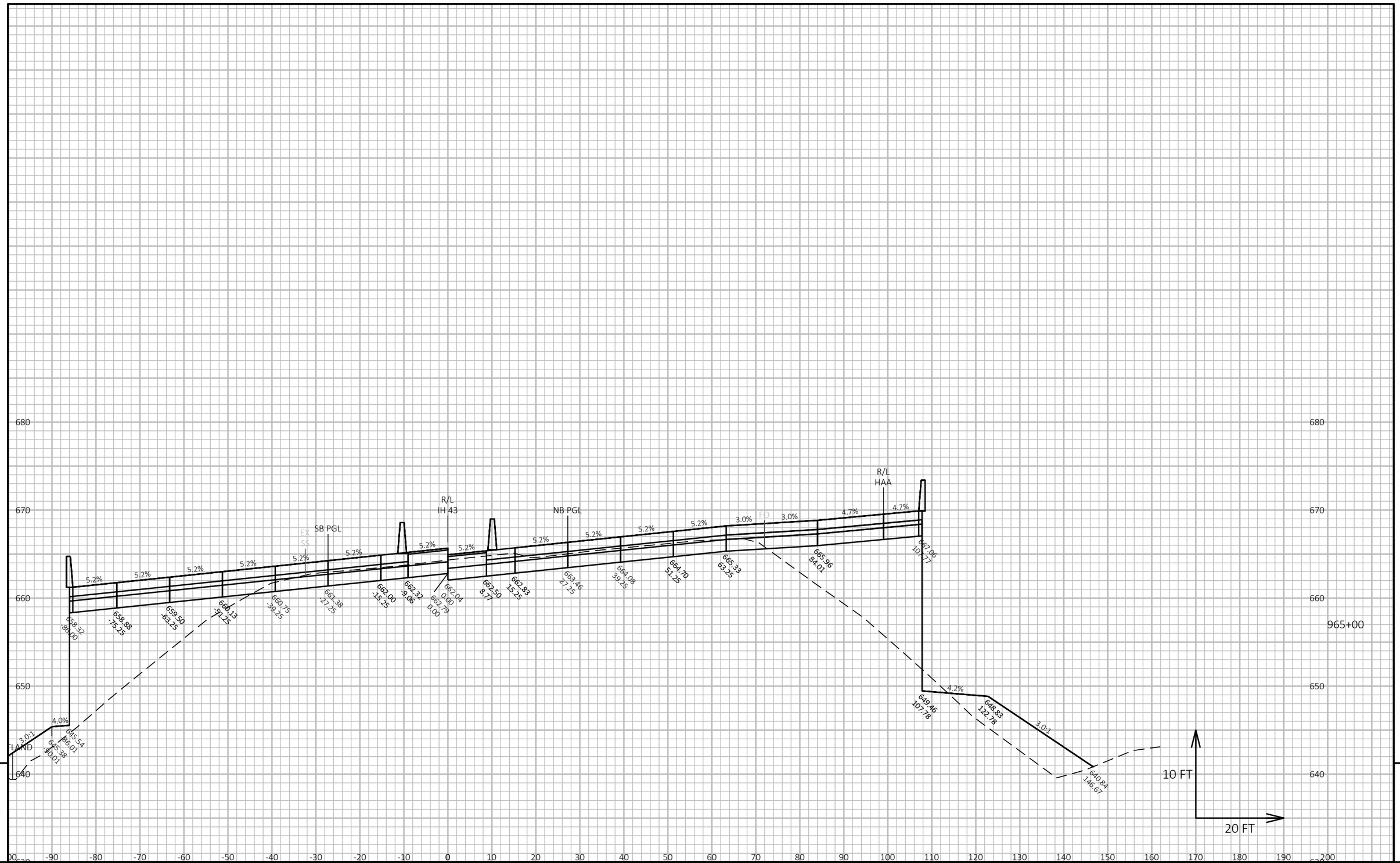
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_434

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 34

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

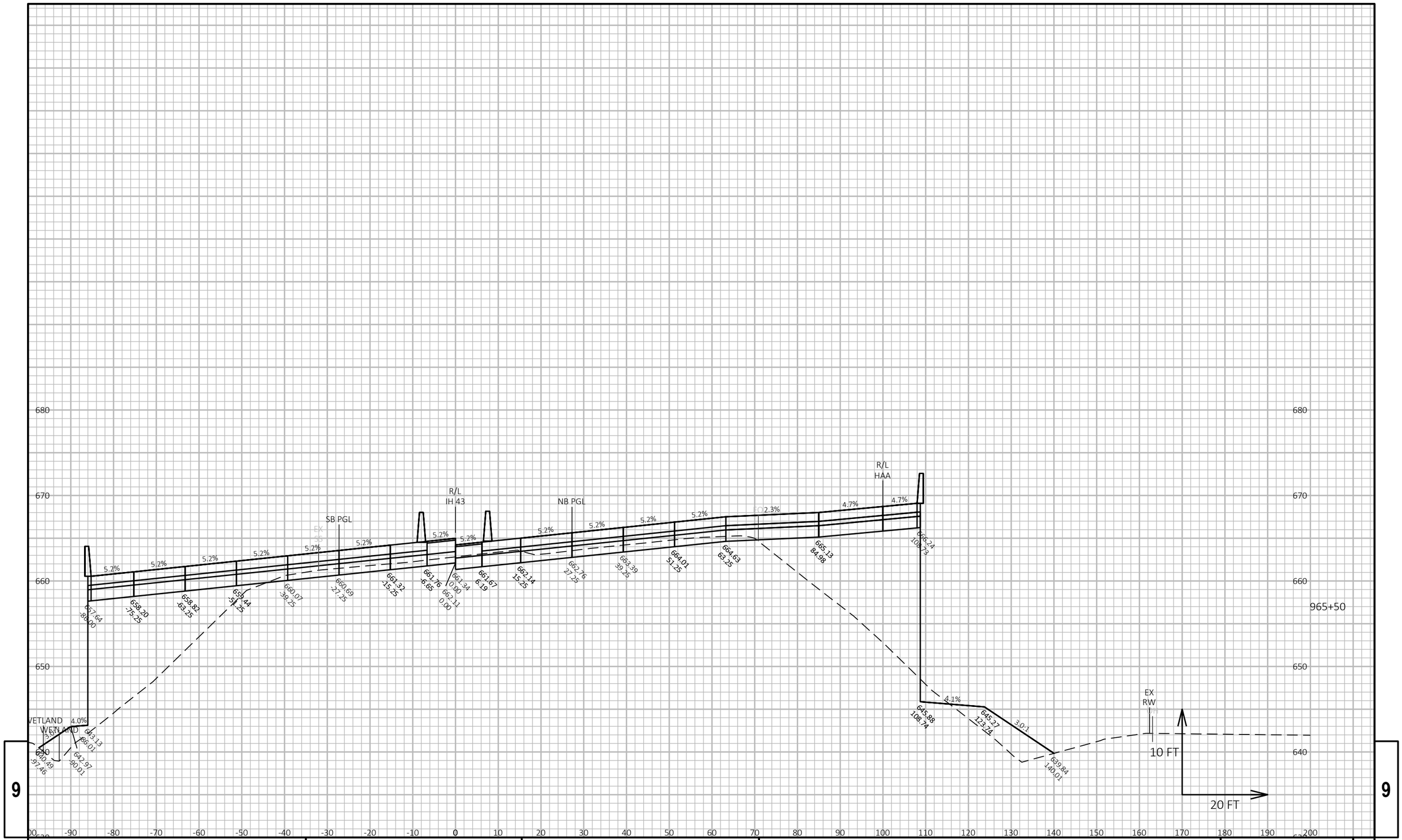
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_435

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 35

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

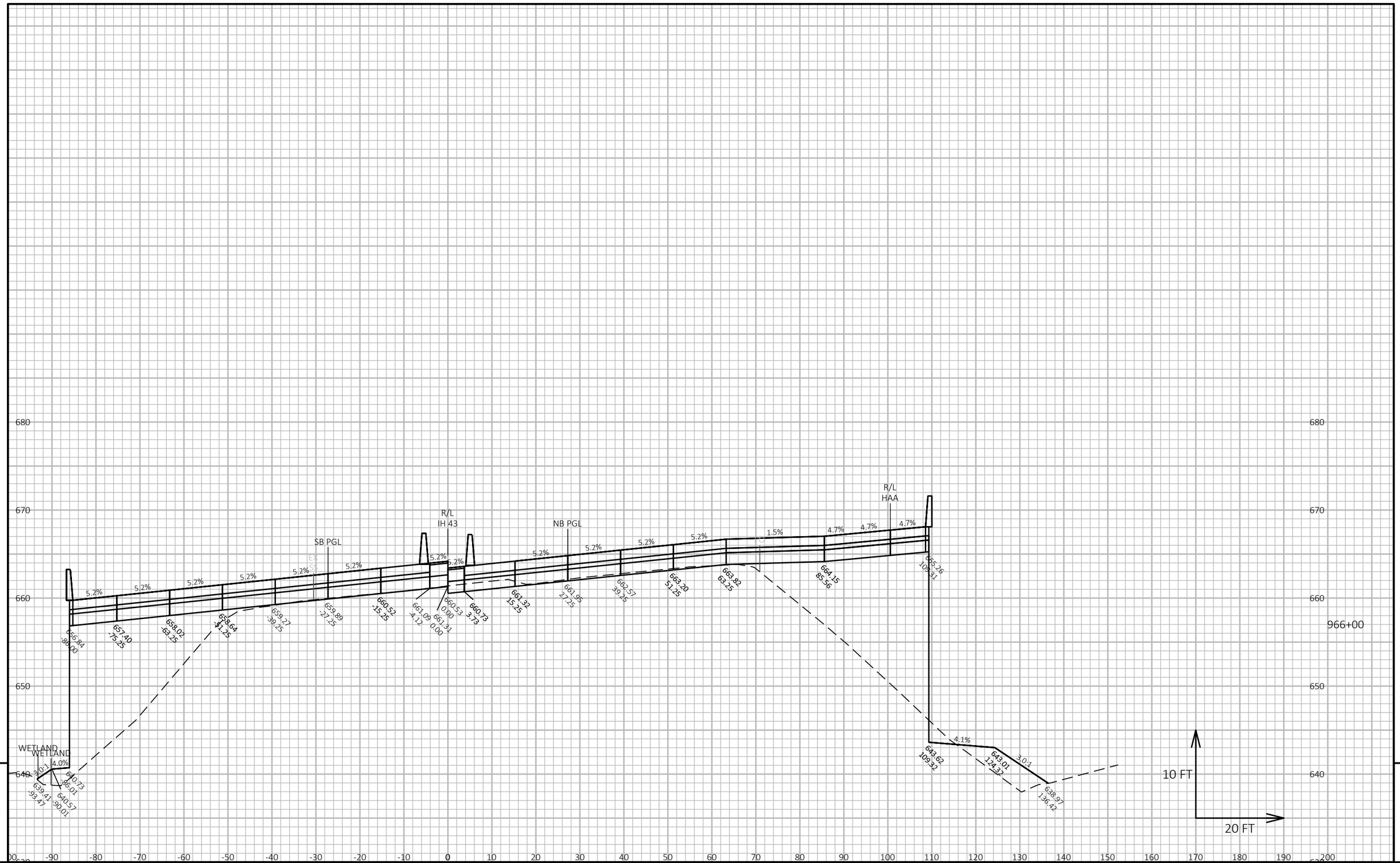


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 36

PLOT DATE : 2/14/2020 10:57 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_436



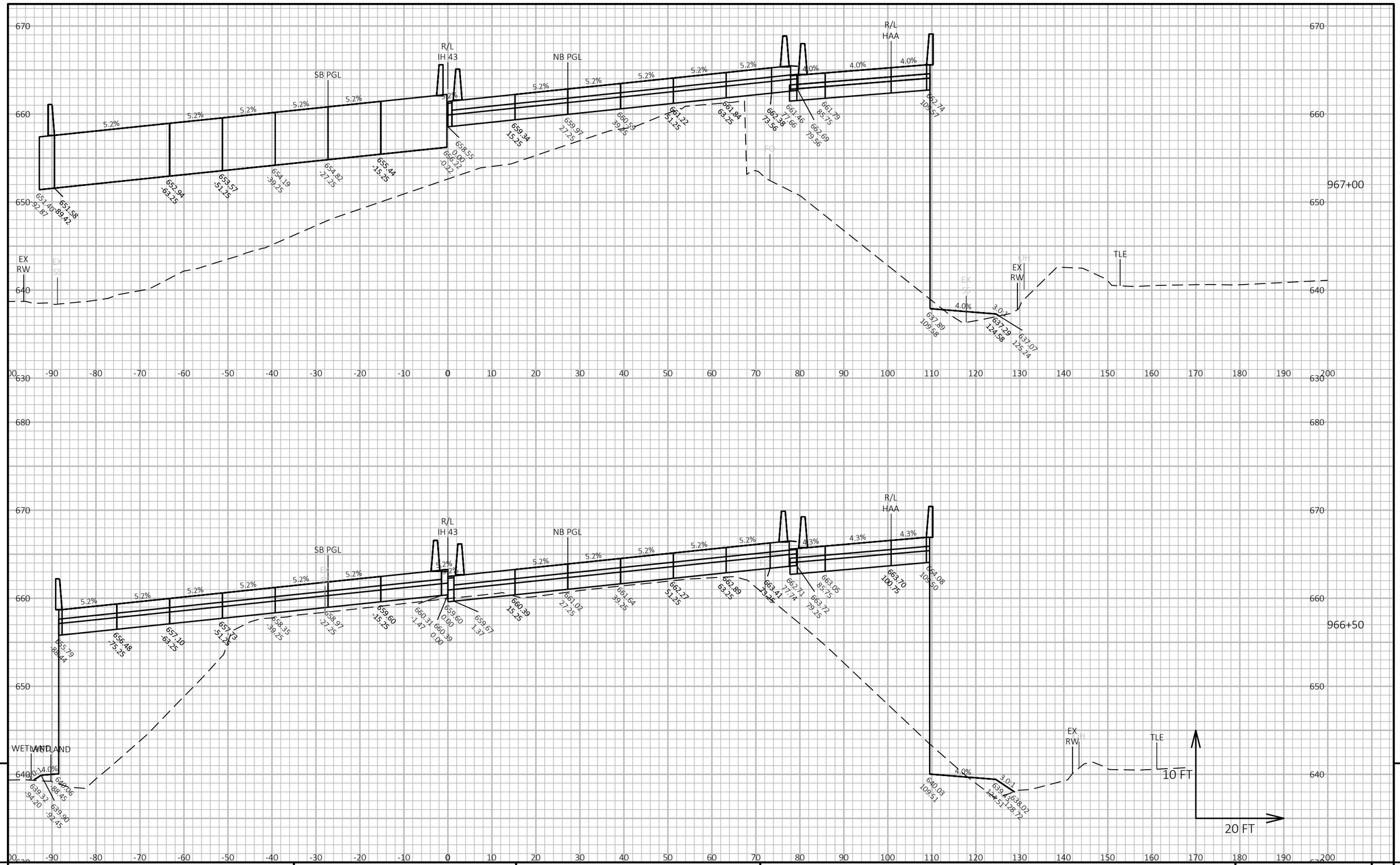
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 37

PLOT DATE : 2/14/2020 10:58 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_437

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 38

PLOT DATE : 2/14/2020 10:58 AM

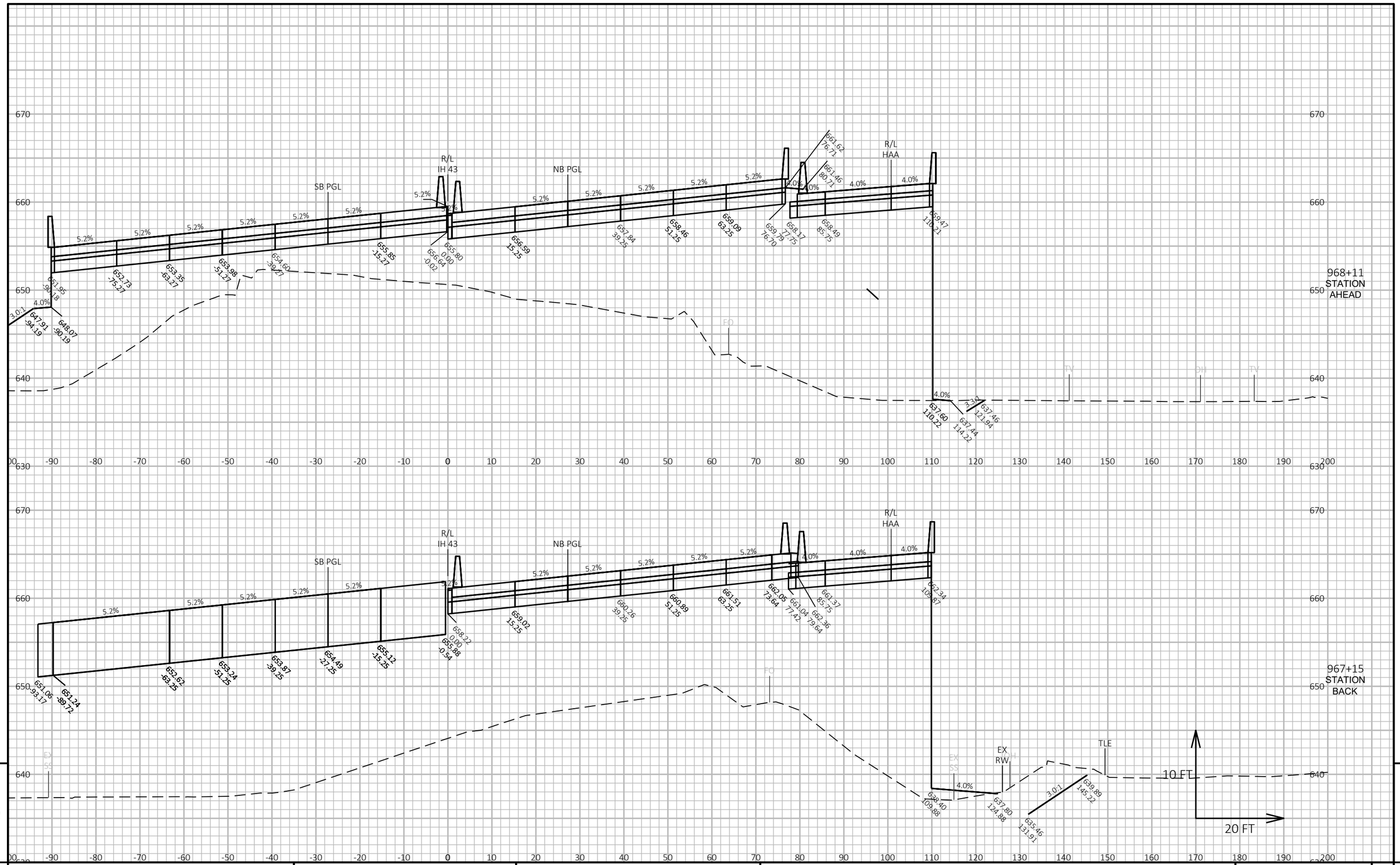
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_438

WISDOT/CADDS SHEET 49



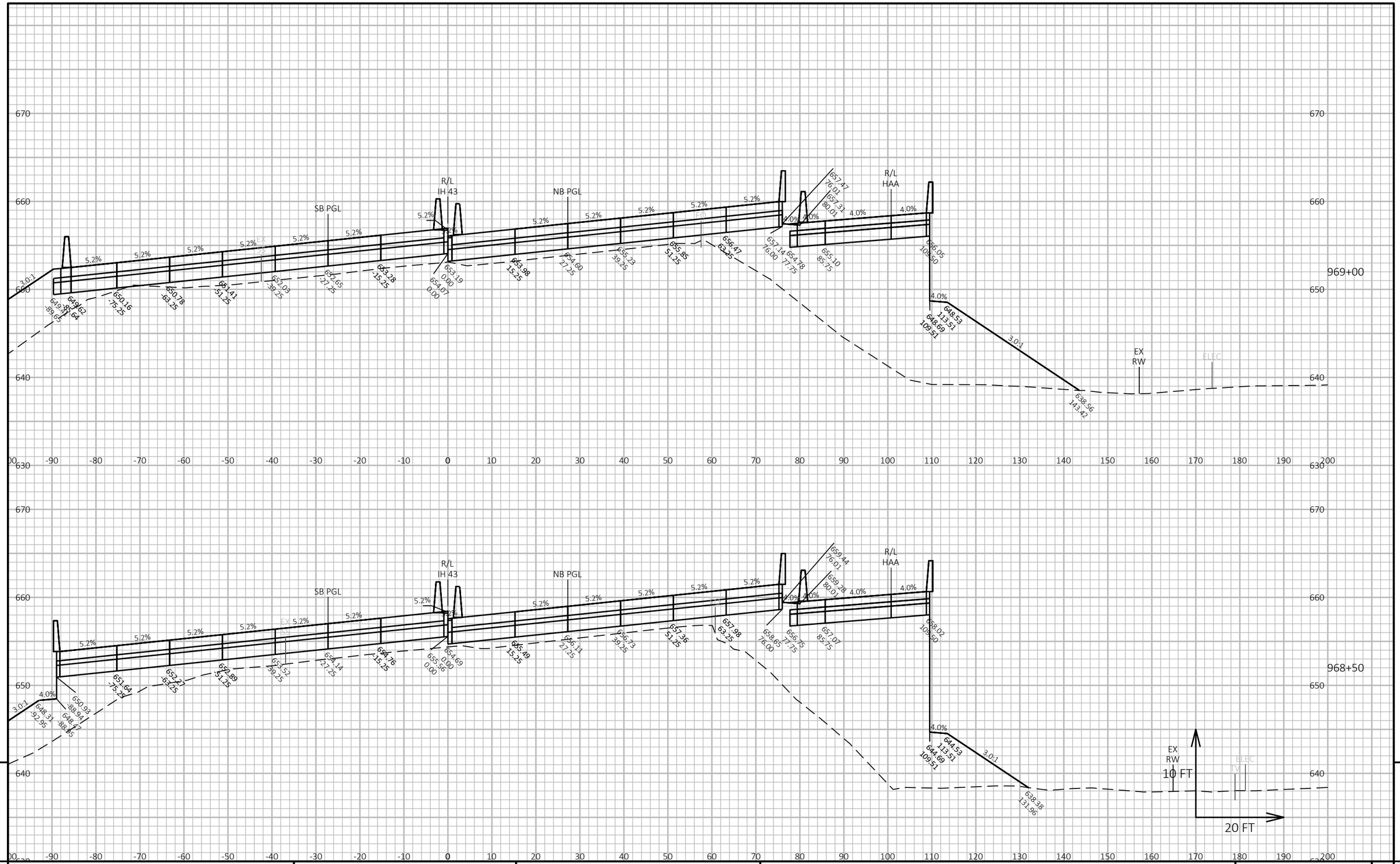
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_439

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 39

PLOT DATE : 2/14/2020 10:58 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



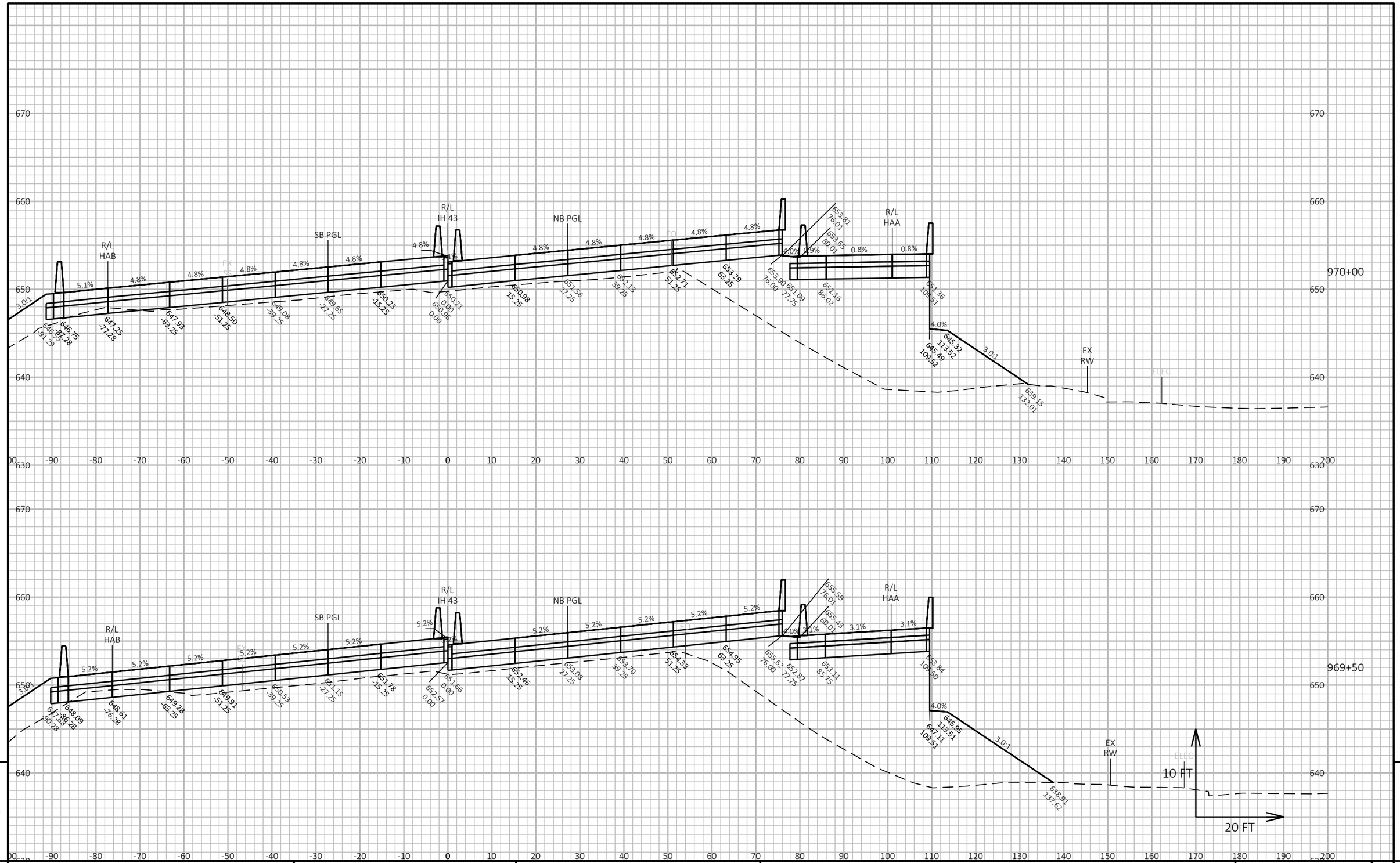
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 40

PLOT DATE : 2/14/2020 10:58 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_440

WISDOT/CADDS SHEET 49



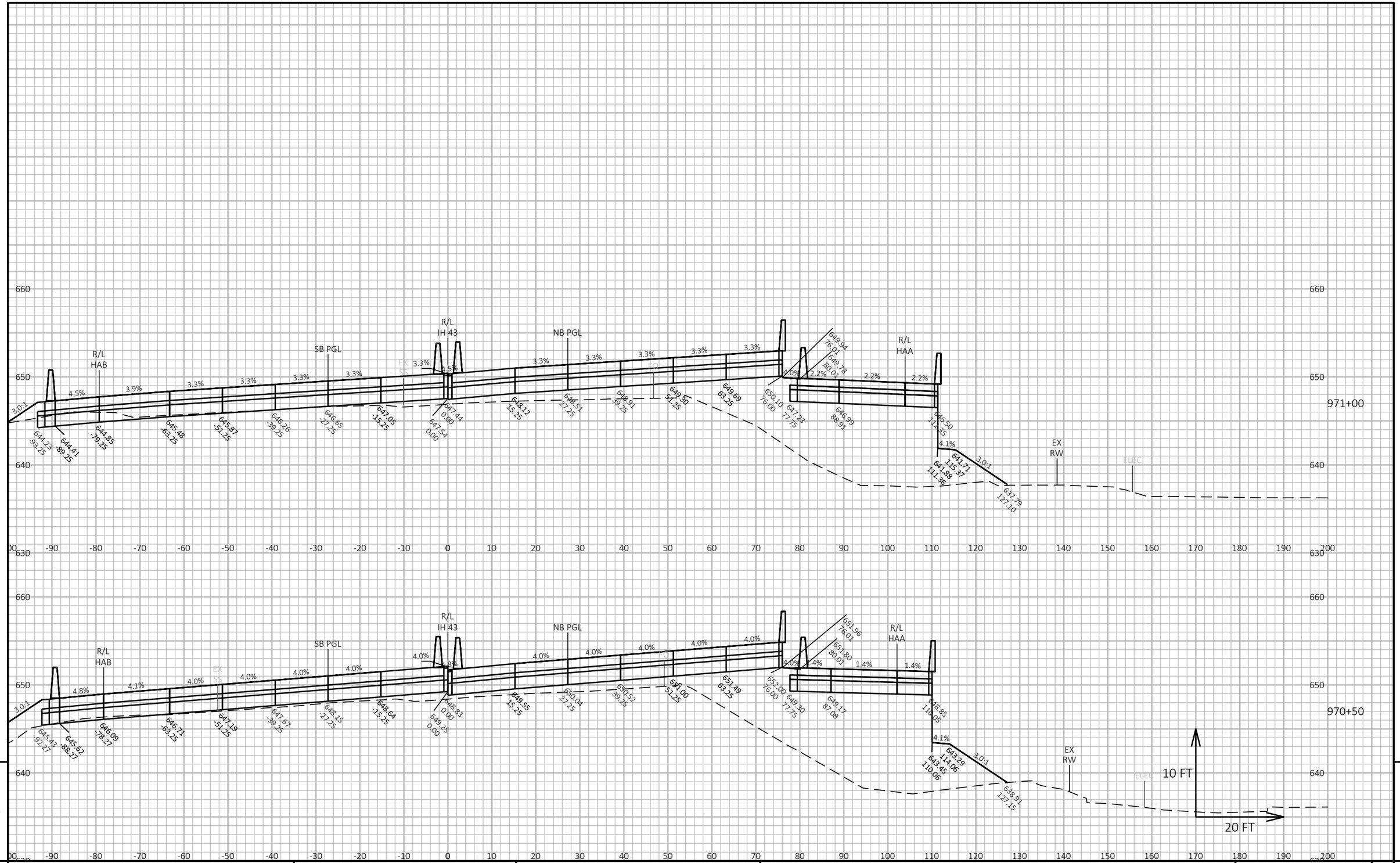
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 41

PLOT DATE : 2/14/2020 10:58 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_441

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_442

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 42

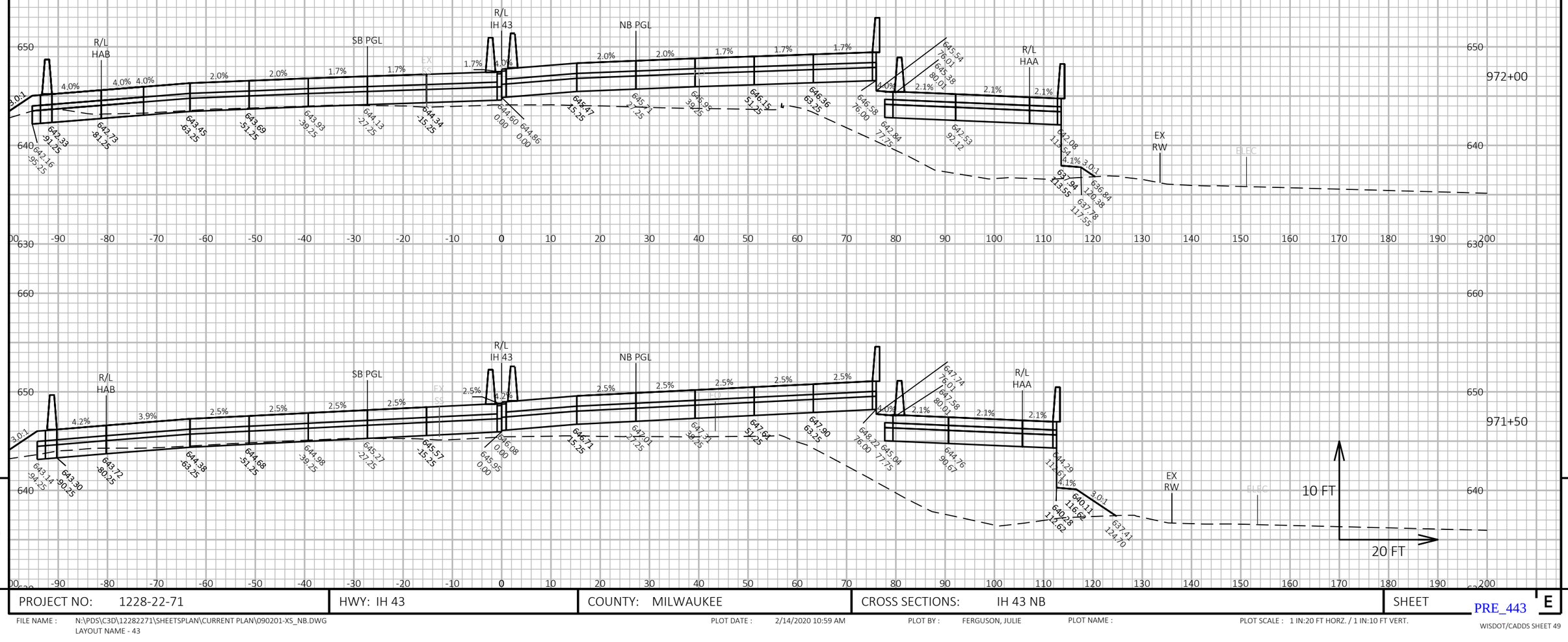
PLOT DATE : 2/14/2020 10:58 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



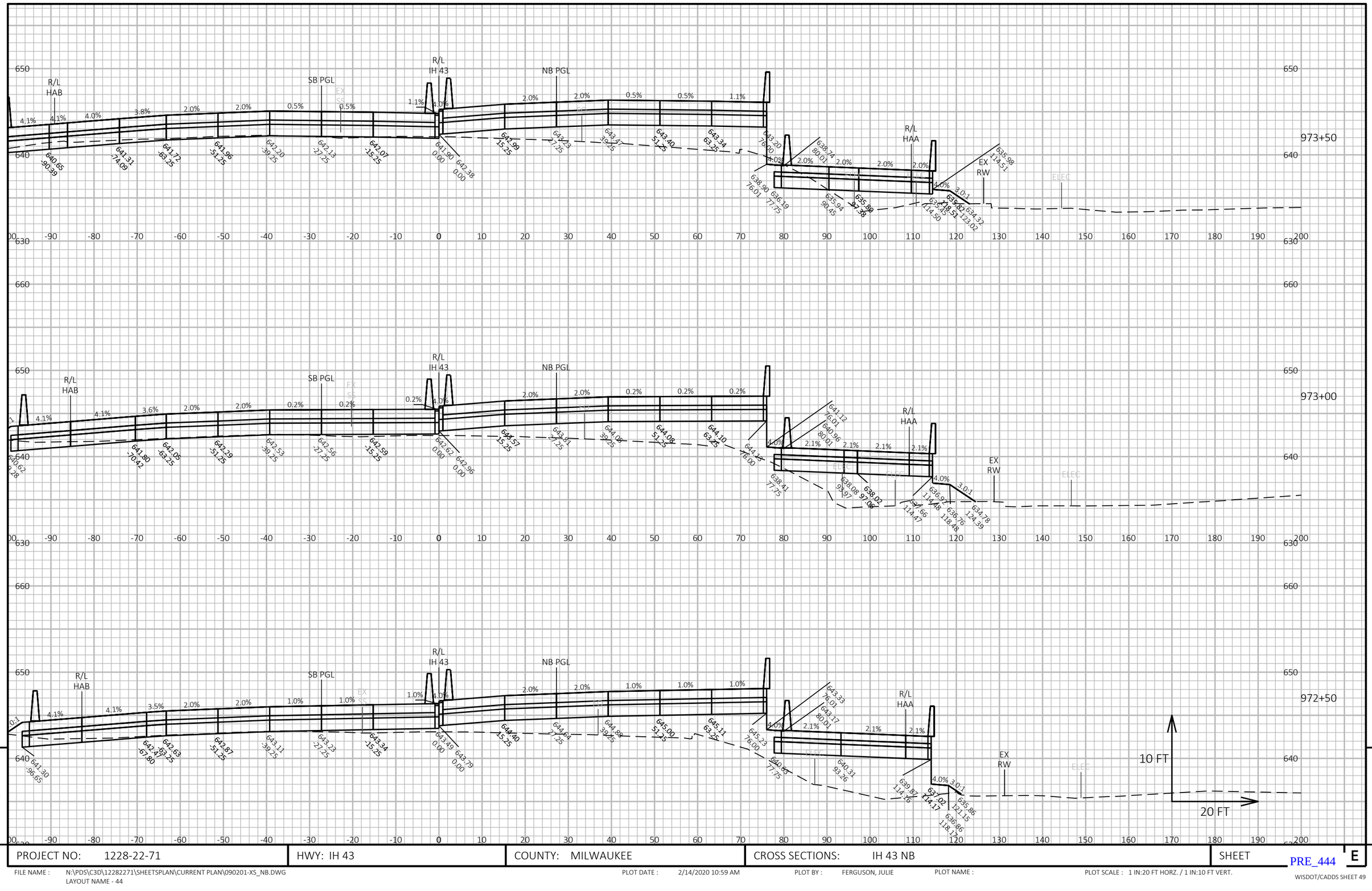
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_443

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 43

PLOT DATE : 2/14/2020 10:59 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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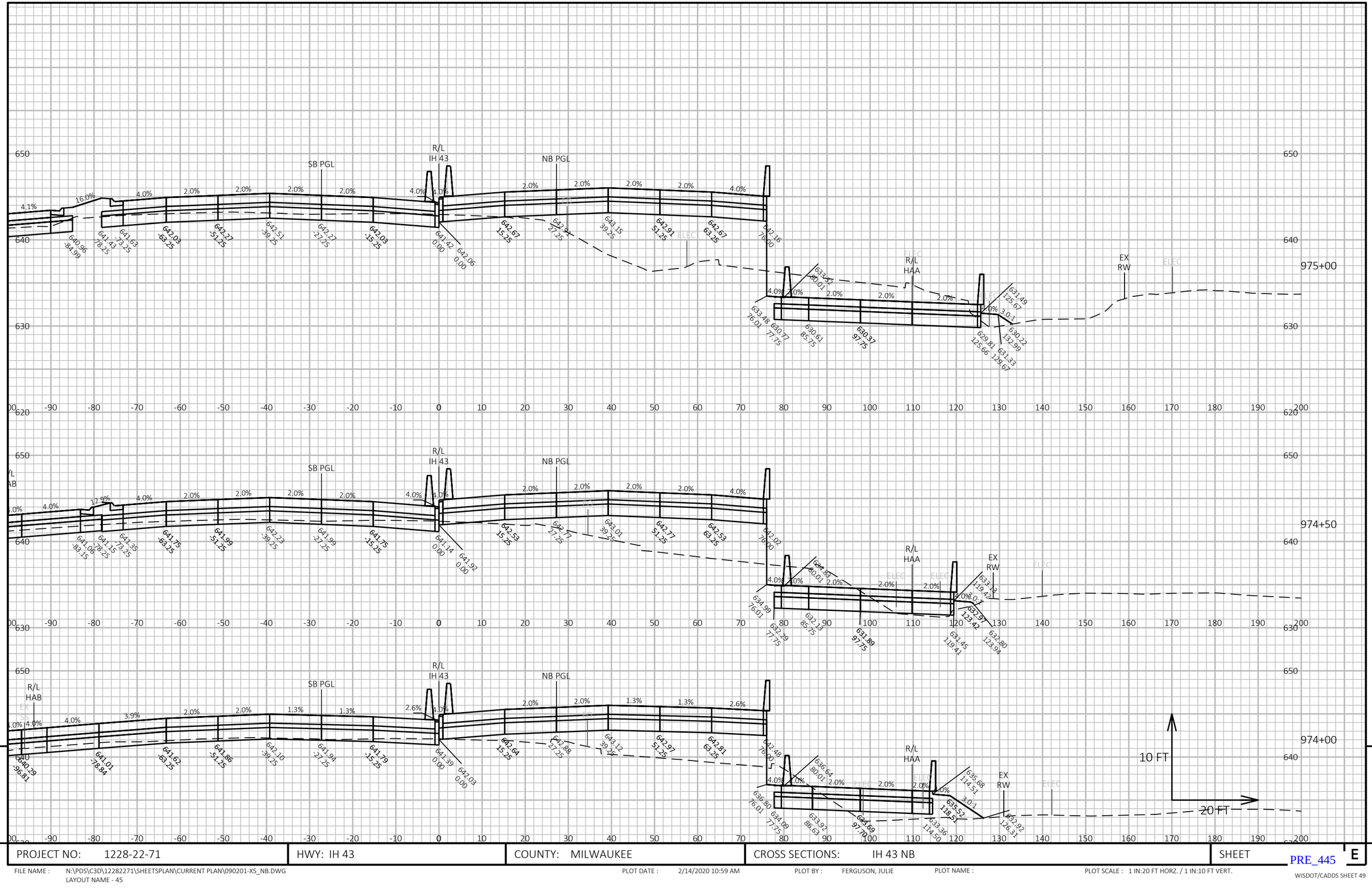
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_444

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 44

PLOT DATE : 2/14/2020 10:59 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_445

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 45

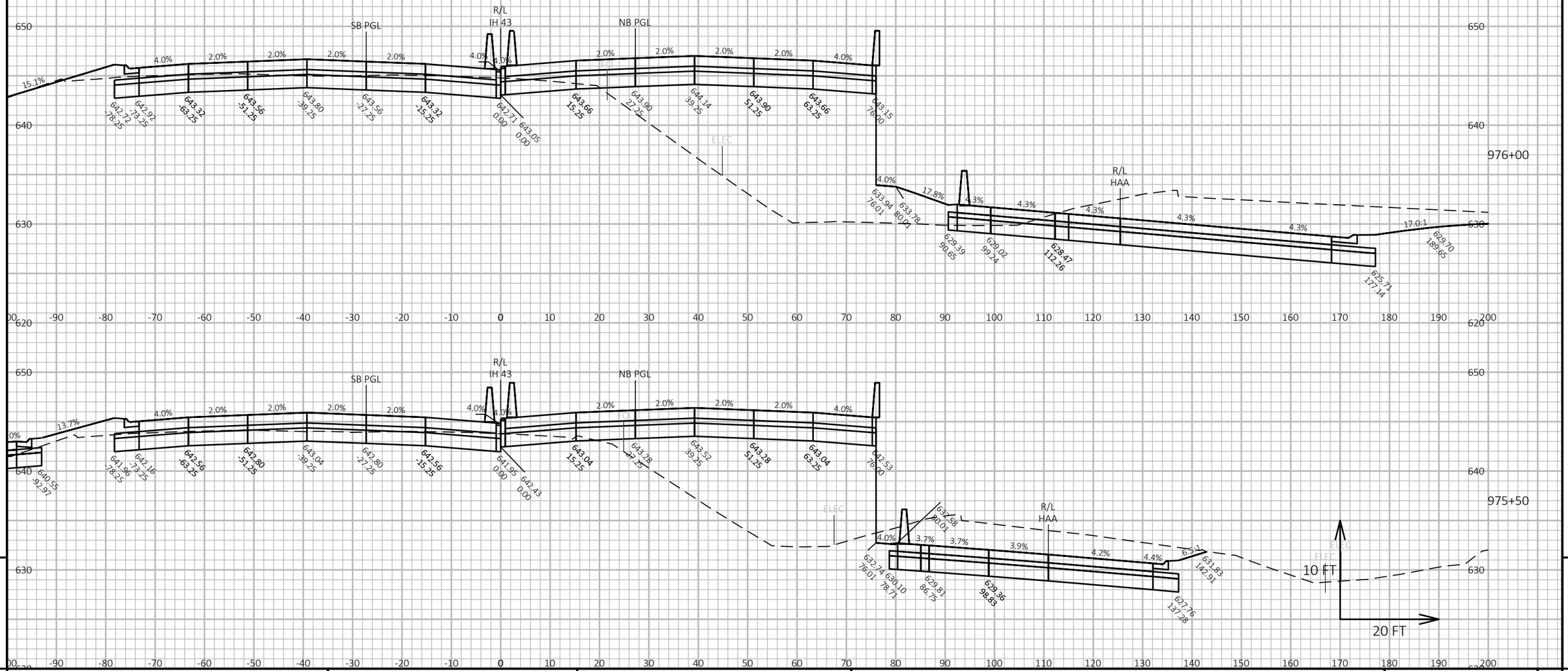
PLOT DATE : 2/14/2020 10:59 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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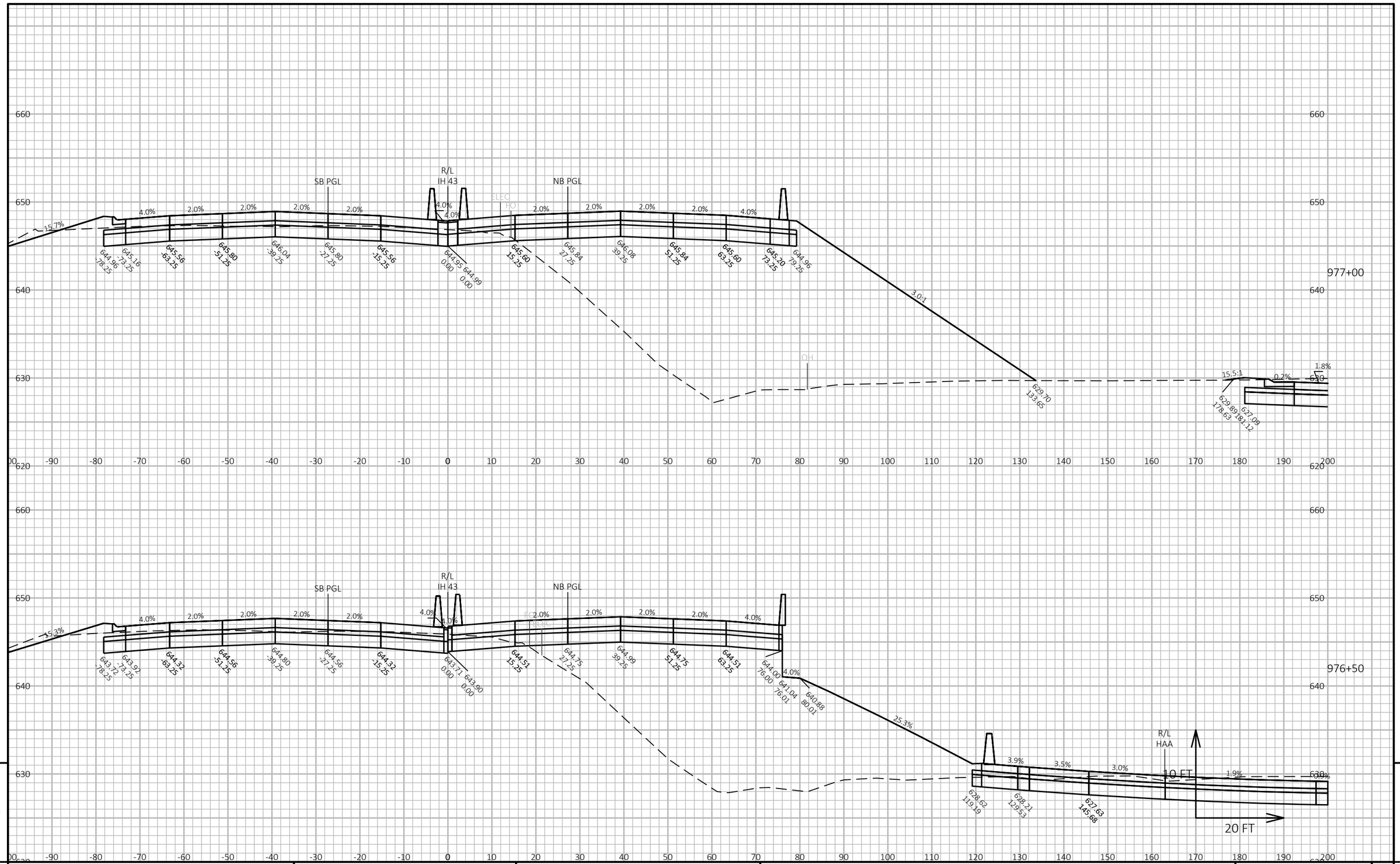
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_446

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 46

PLOT DATE : 2/14/2020 10:59 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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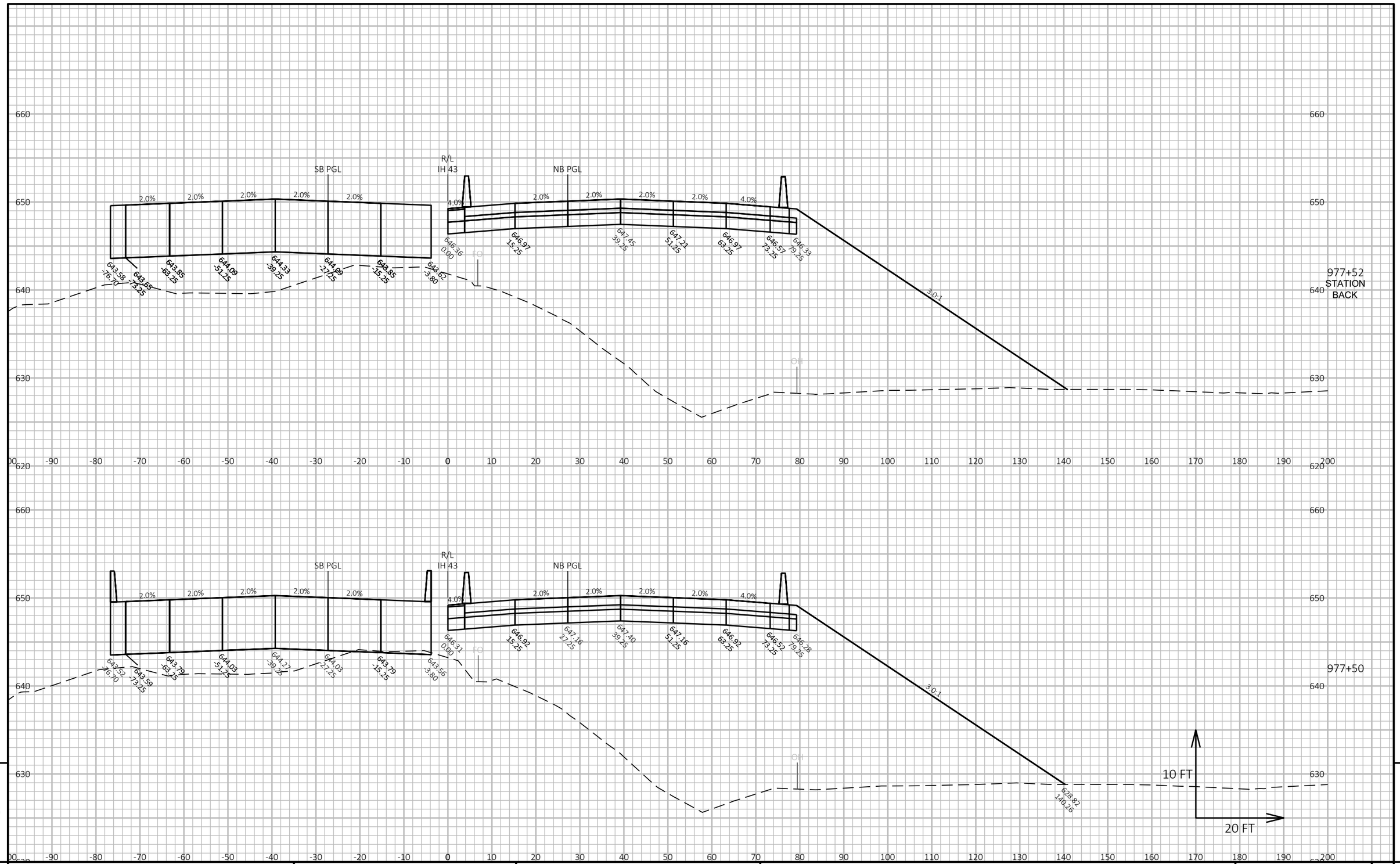
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_447

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 47

PLOT DATE : 2/14/2020 10:59 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_448

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 48

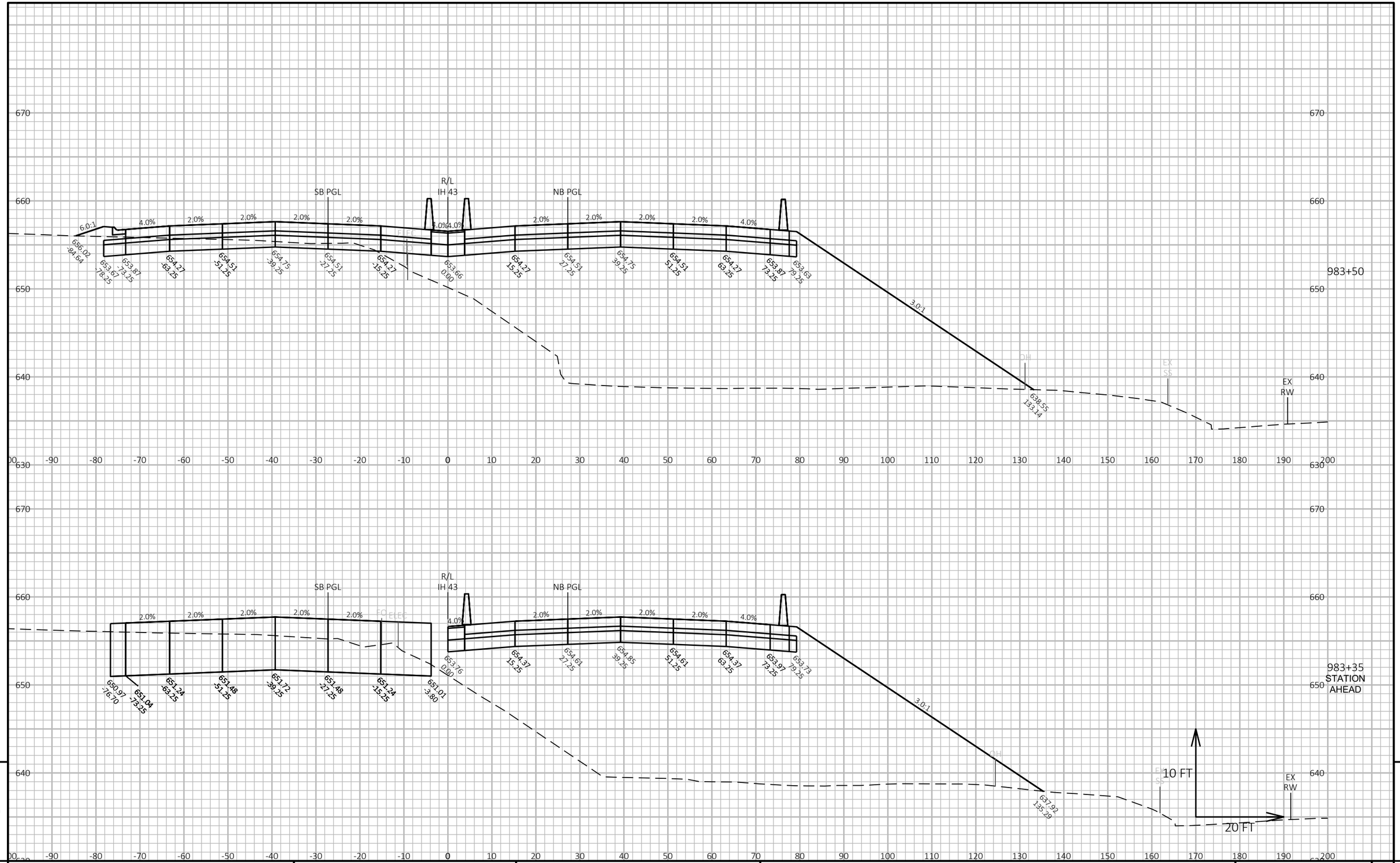
PLOT DATE : 2/14/2020 11:00 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



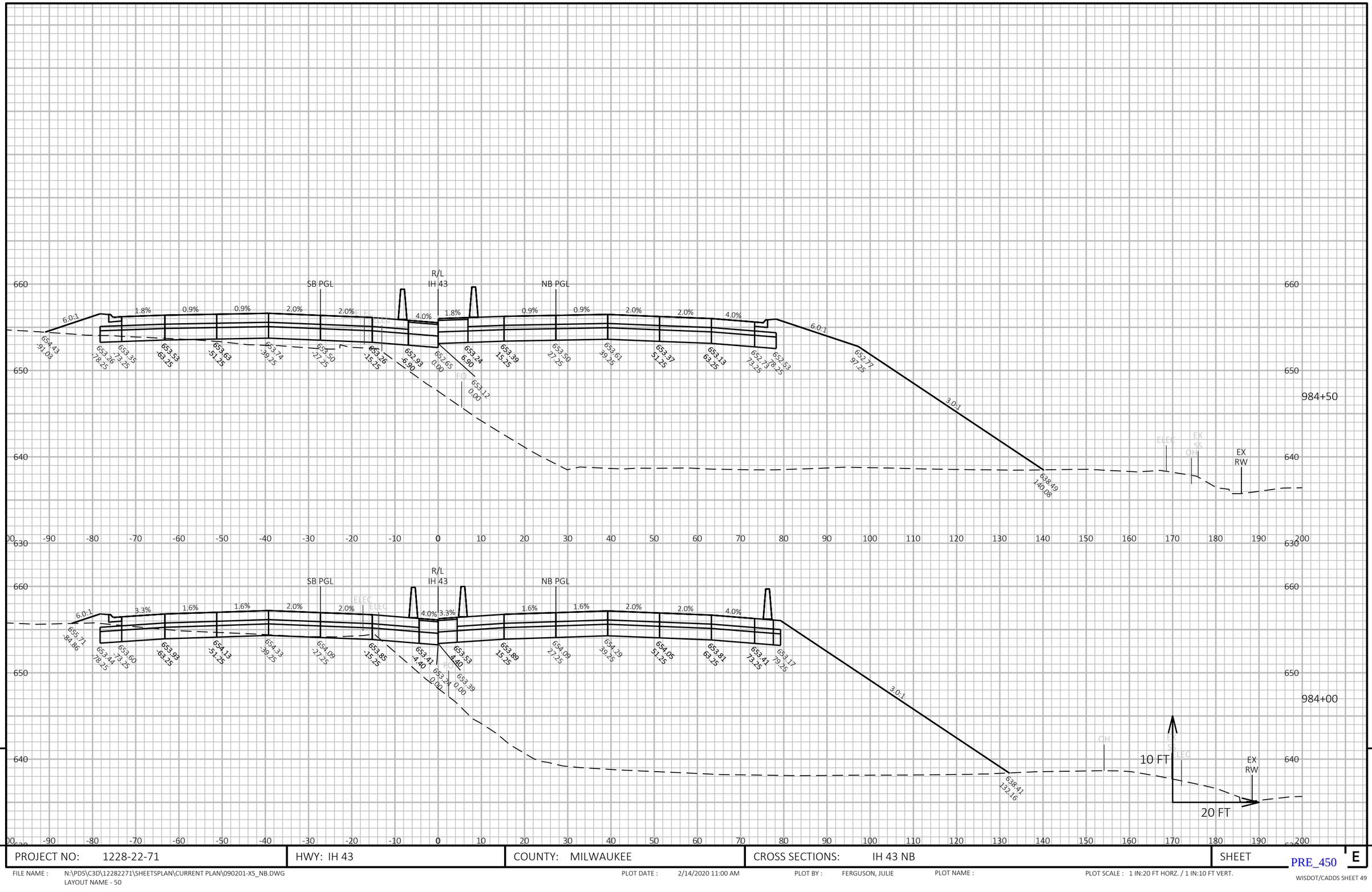
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_449

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 49

PLOT DATE : 2/14/2020 11:00 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 50

PLOT DATE : 2/14/2020 11:00 AM

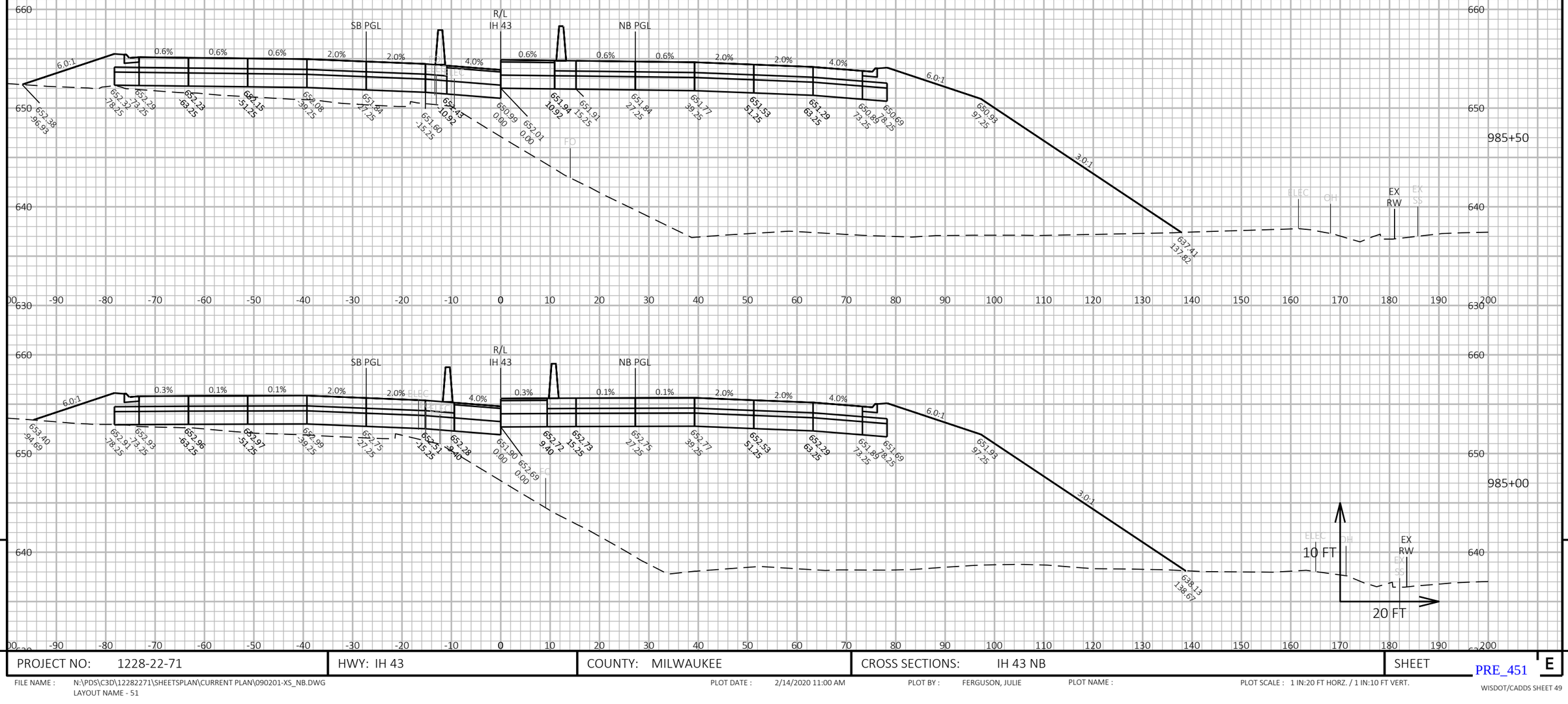
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_450

WISDOT/CADDS SHEET 49



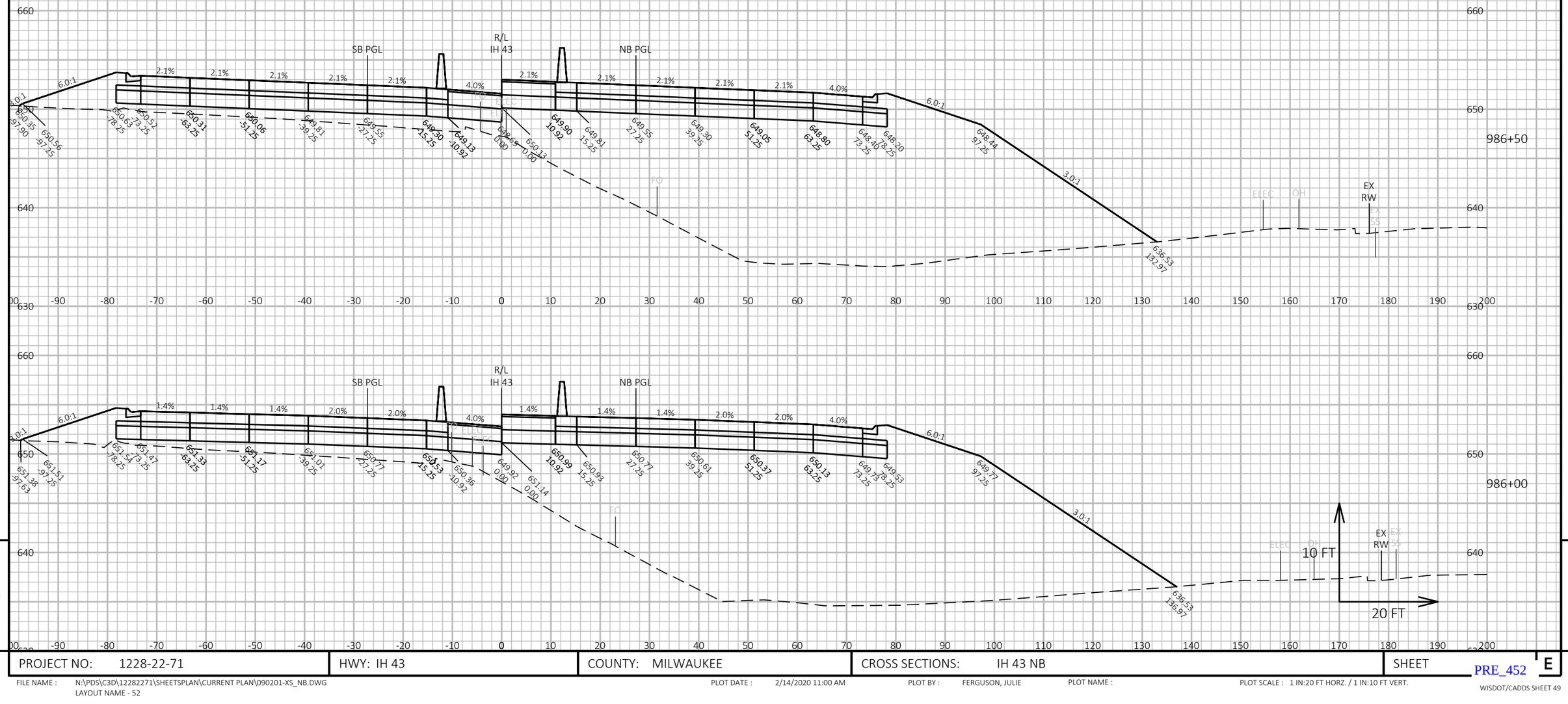
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_451

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 51

PLOT DATE : 2/14/2020 11:00 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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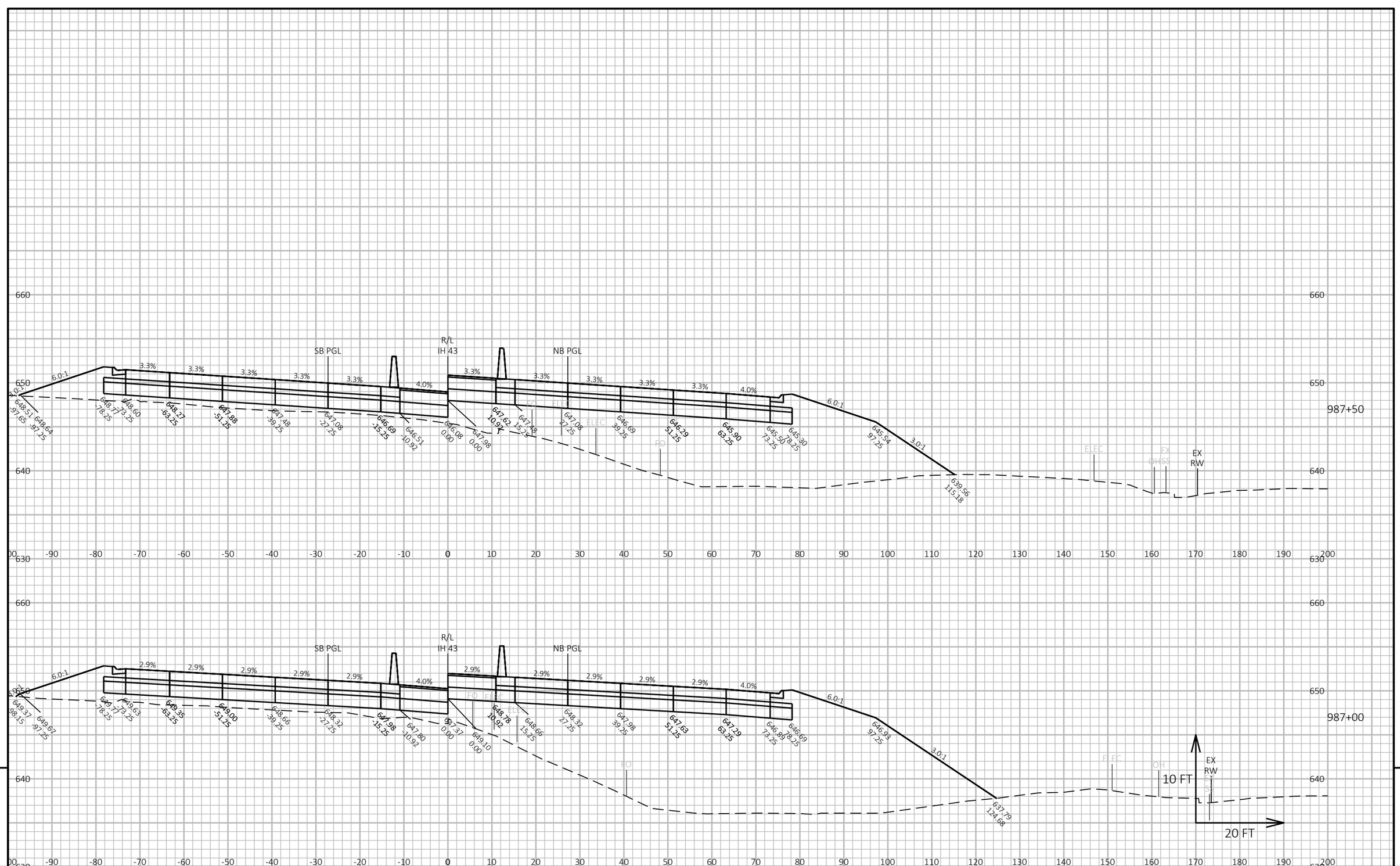
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_452

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 52

PLOT DATE : 2/14/2020 11:00 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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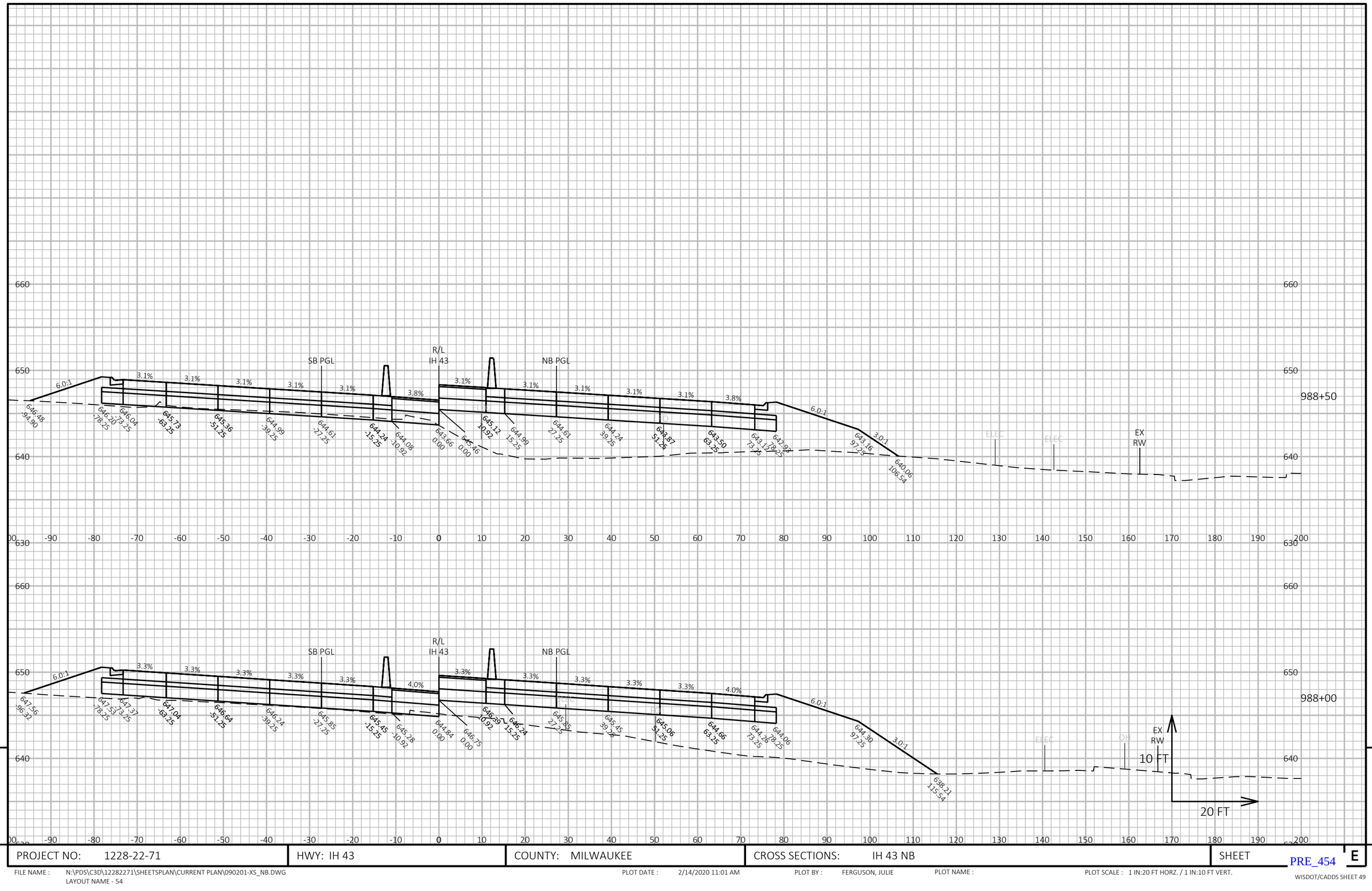
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_453

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 53

PLOT DATE : 2/14/2020 11:00 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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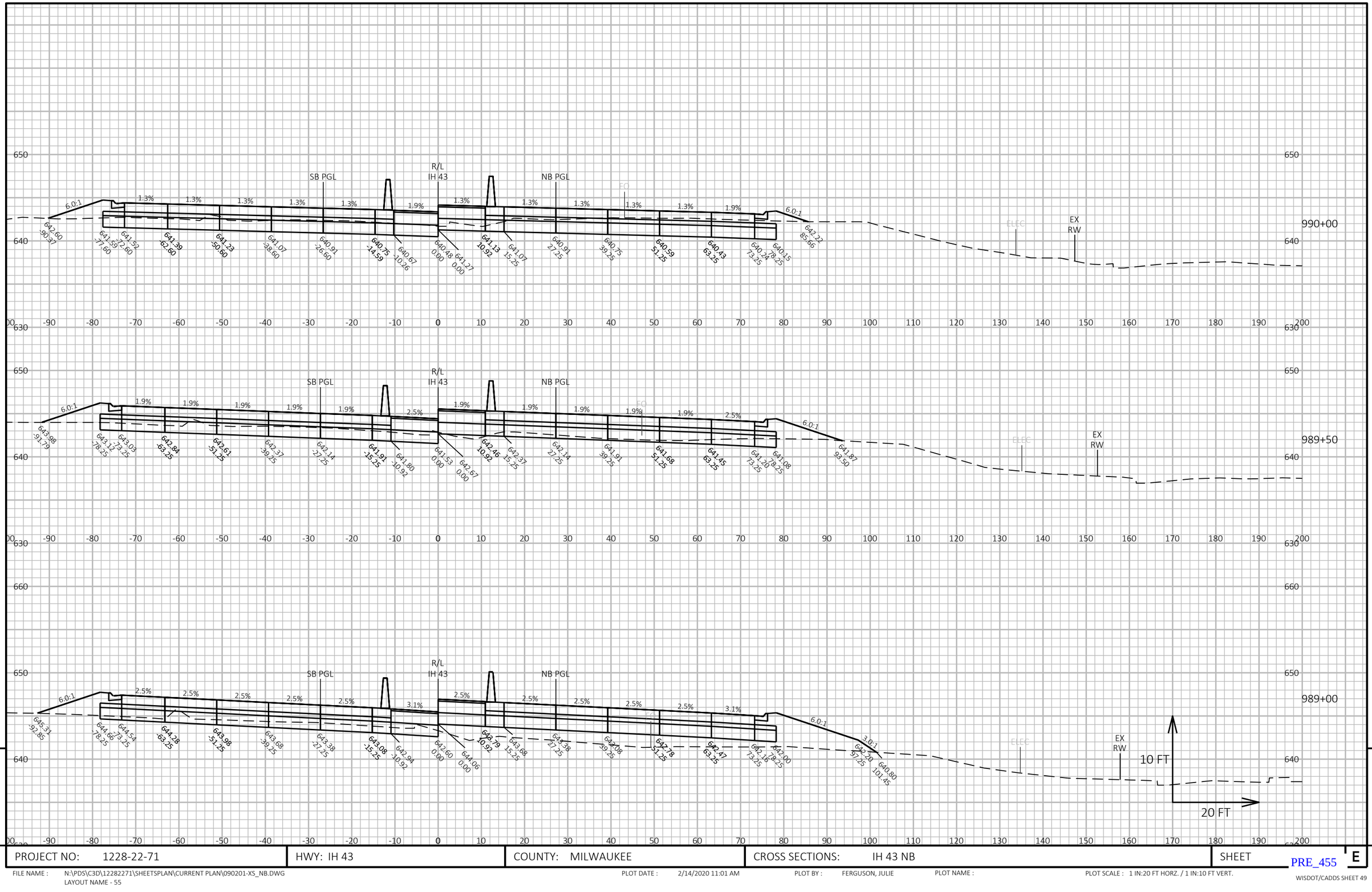
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_454

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 54

PLOT DATE : 2/14/2020 11:01 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 55

PLOT DATE : 2/14/2020 11:01 AM

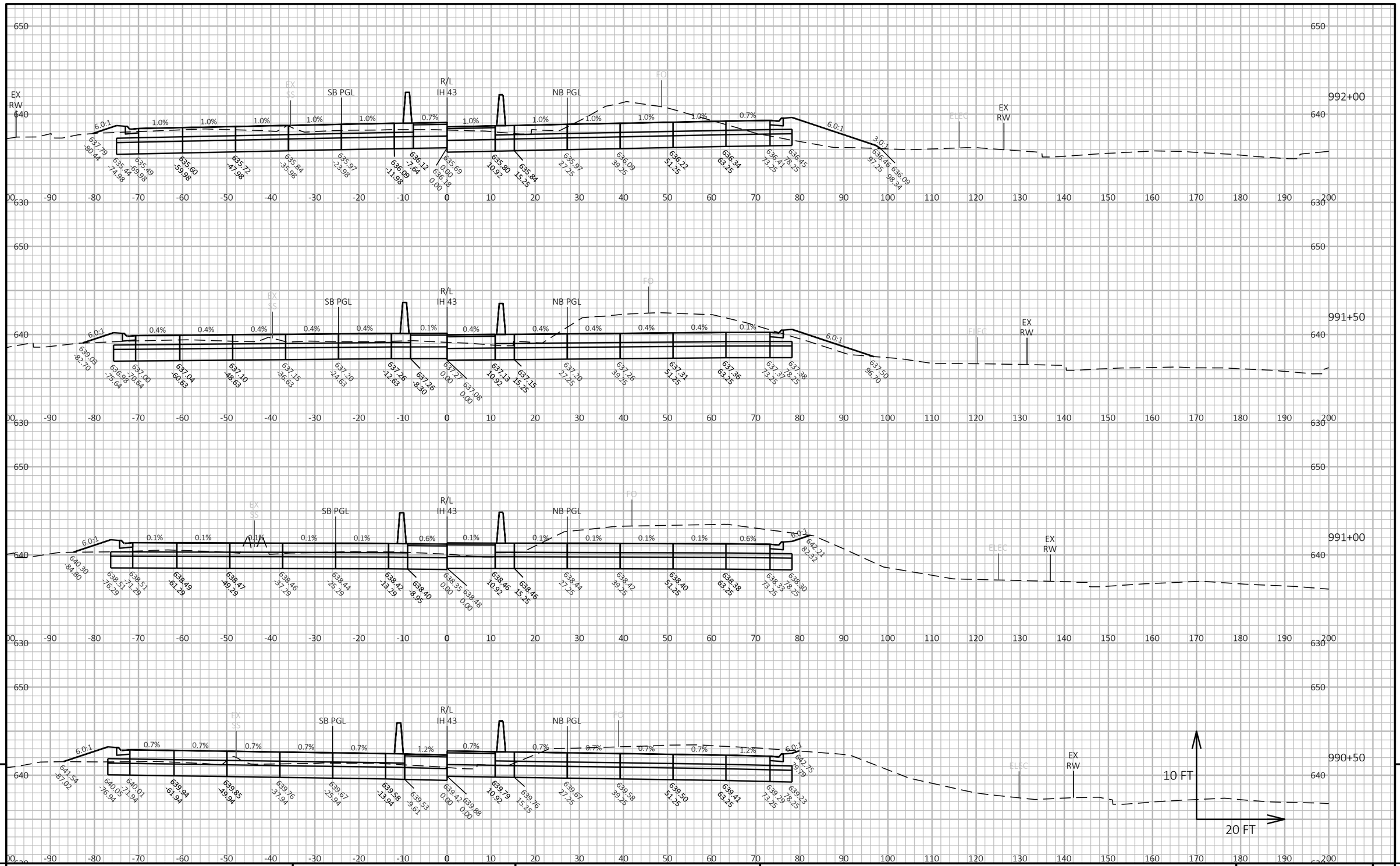
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_455

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_456

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 56

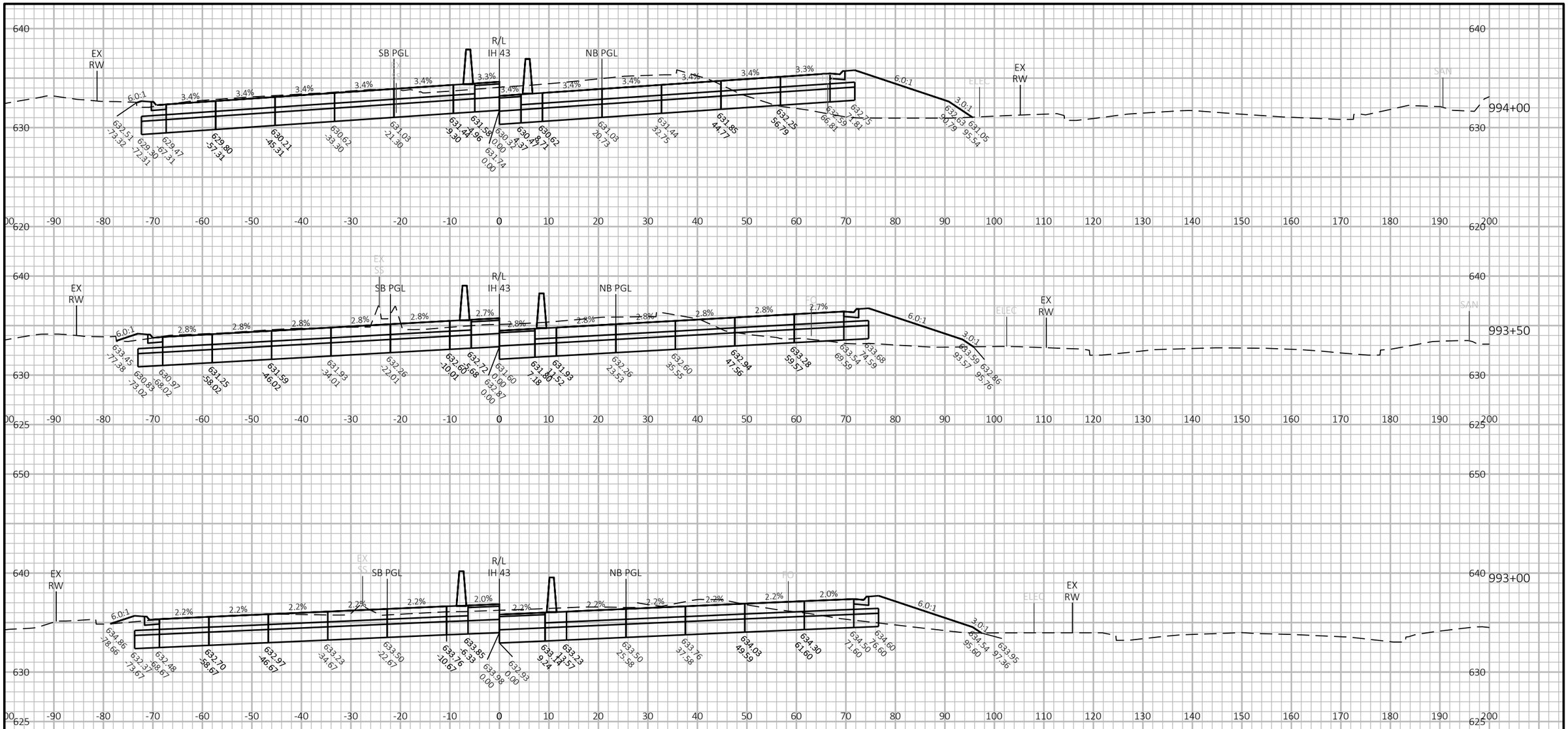
PLOT DATE : 2/14/2020 11:01 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_457

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 57

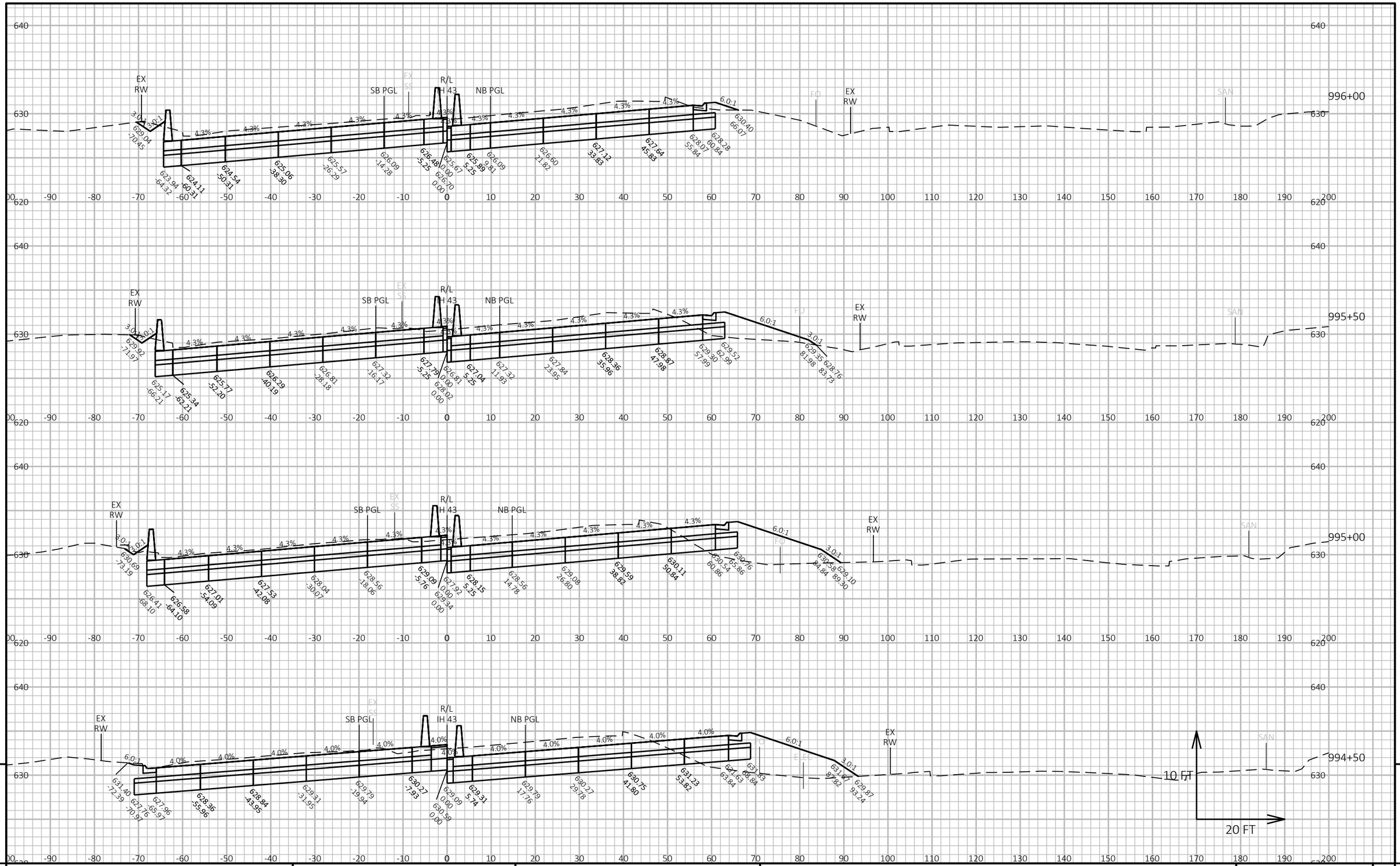
PLOT DATE : 2/14/2020 11:01 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_458

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 58

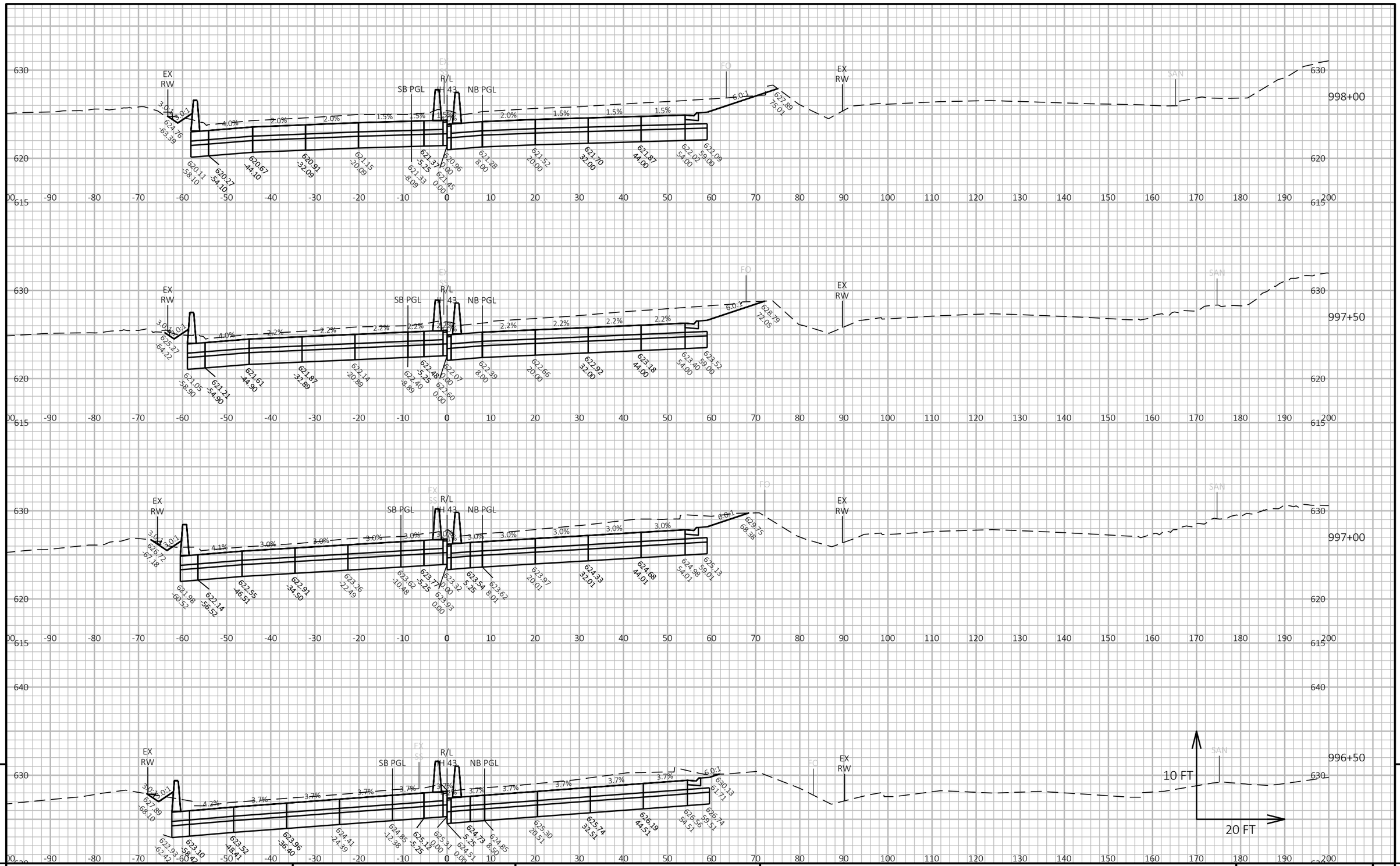
PLOT DATE : 2/14/2020 11:01 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_459

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 59

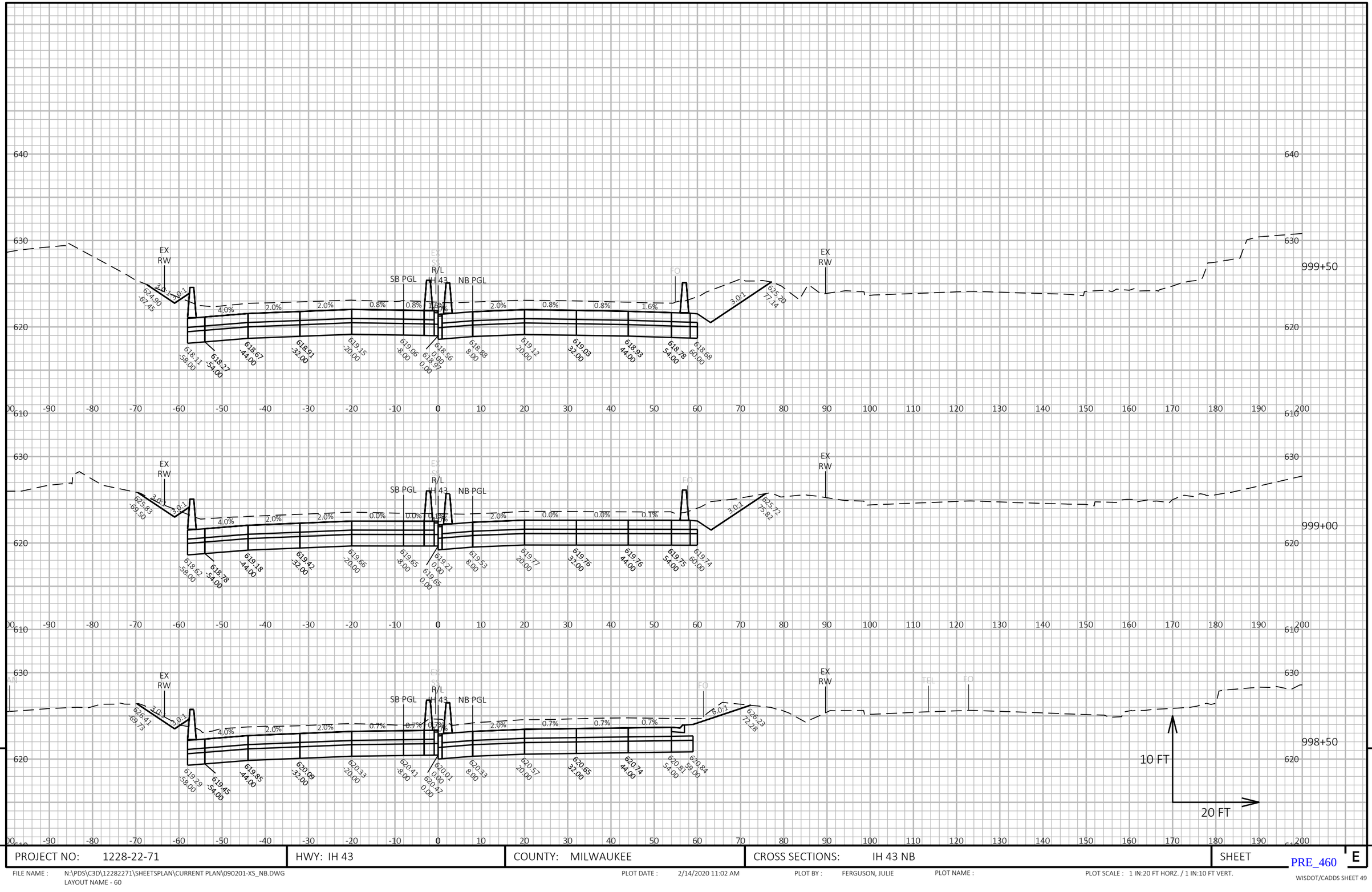
PLOT DATE : 2/14/2020 11:01 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 60

PLOT DATE : 2/14/2020 11:02 AM

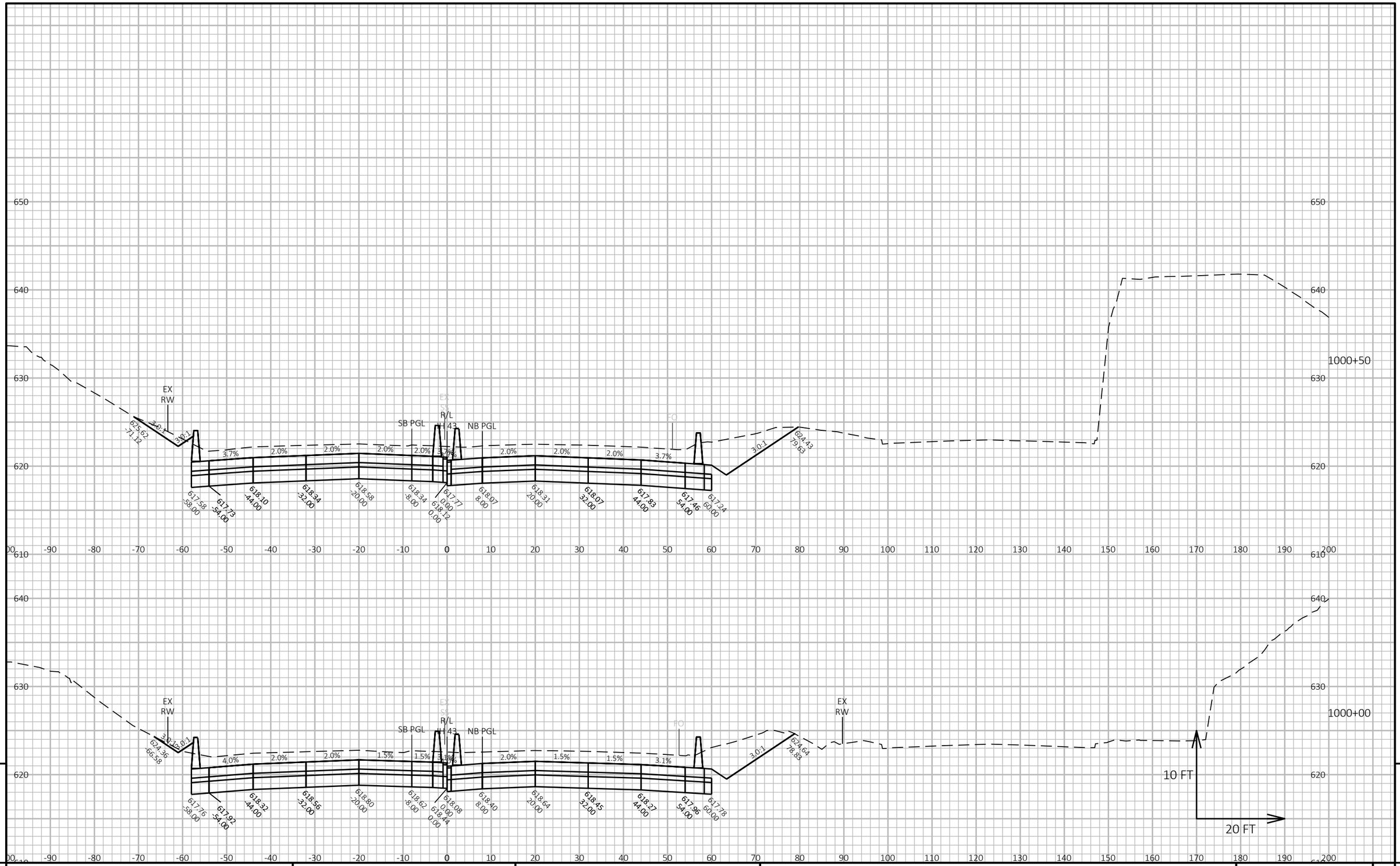
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_460

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

PRE_461

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 61

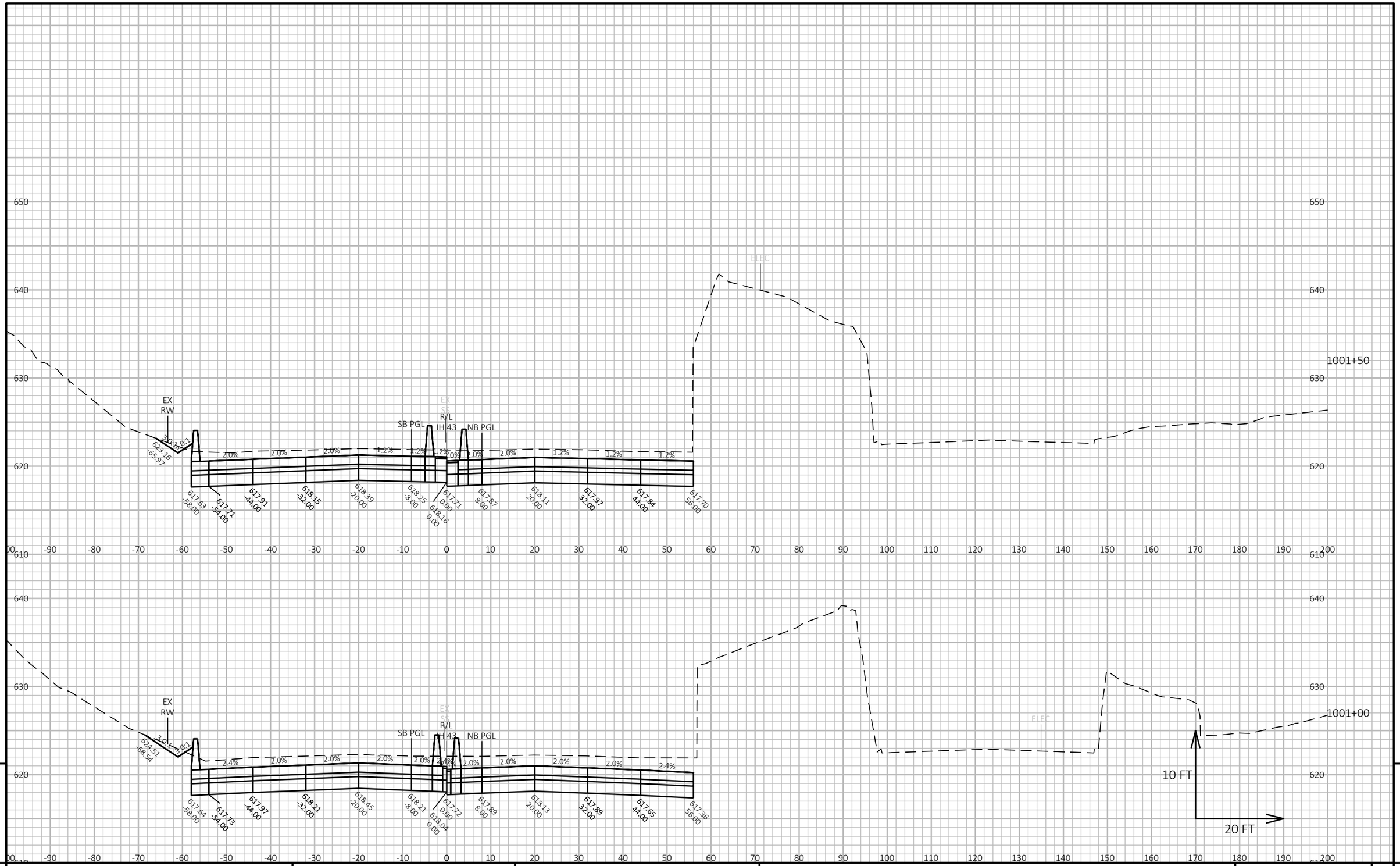
PLOT DATE : 2/14/2020 11:02 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 62

PLOT DATE : 2/14/2020 11:02 AM

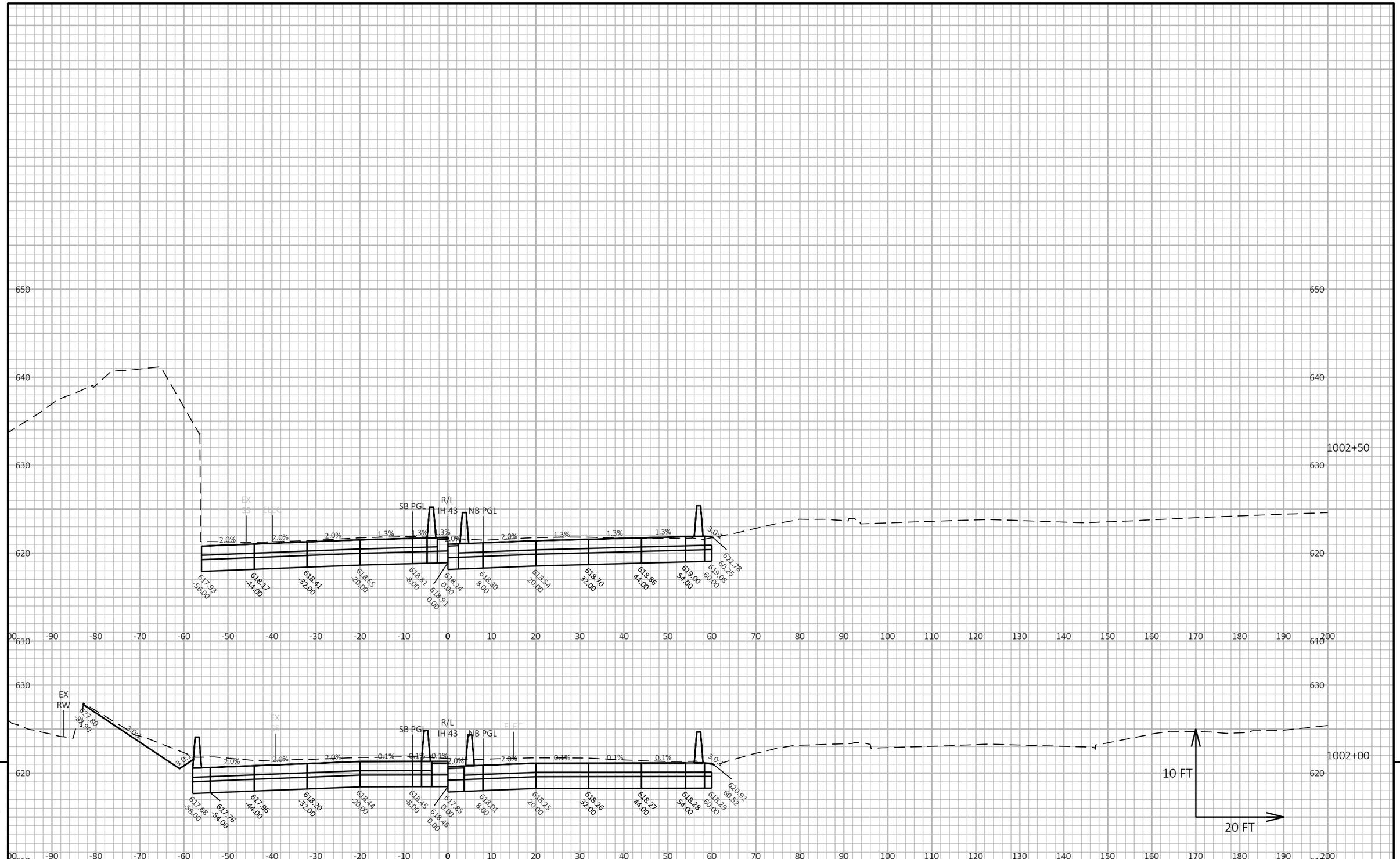
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_462

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 63

PLOT DATE : 2/14/2020 11:02 AM

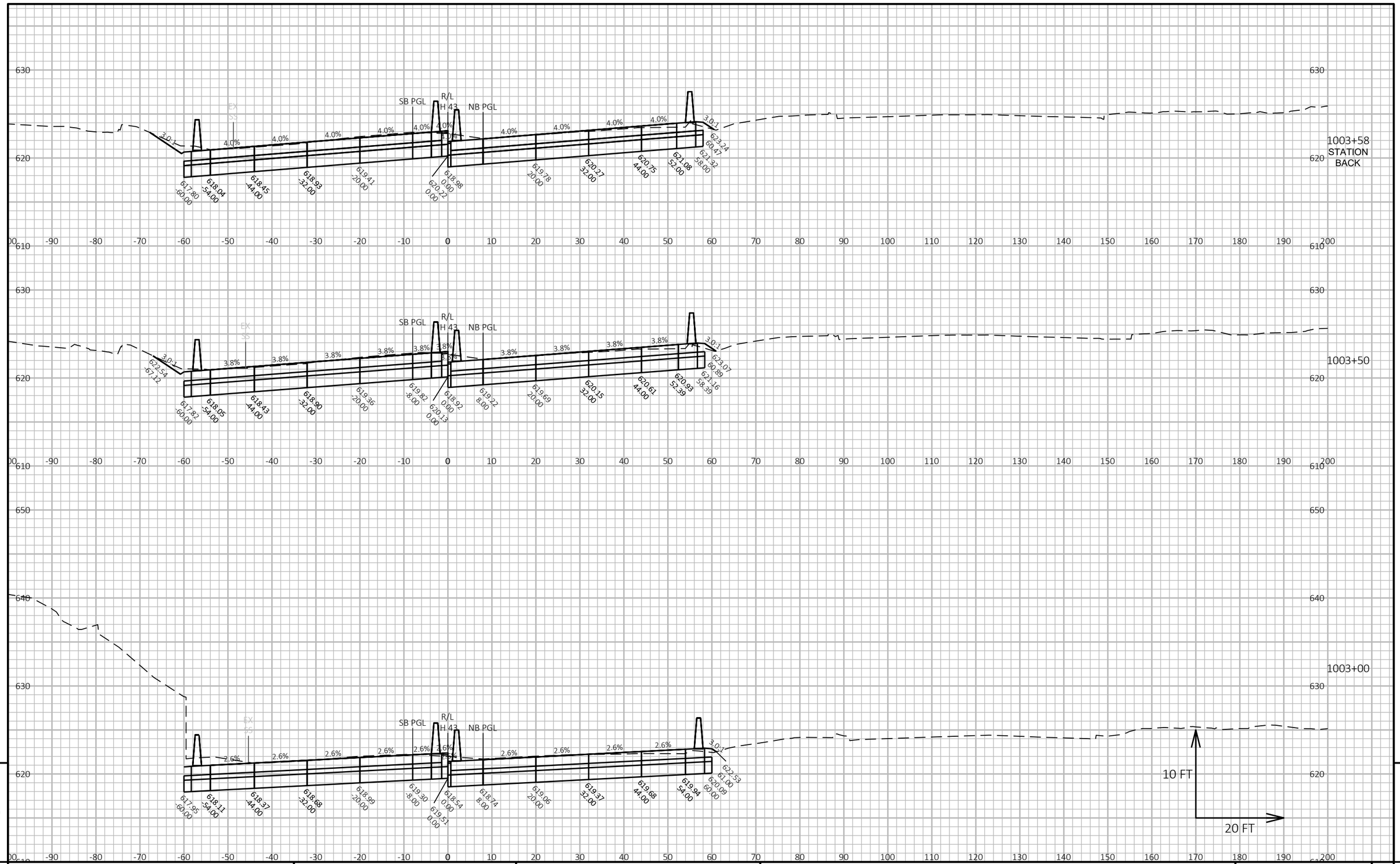
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_463

WISDOT/CADDS SHEET 49



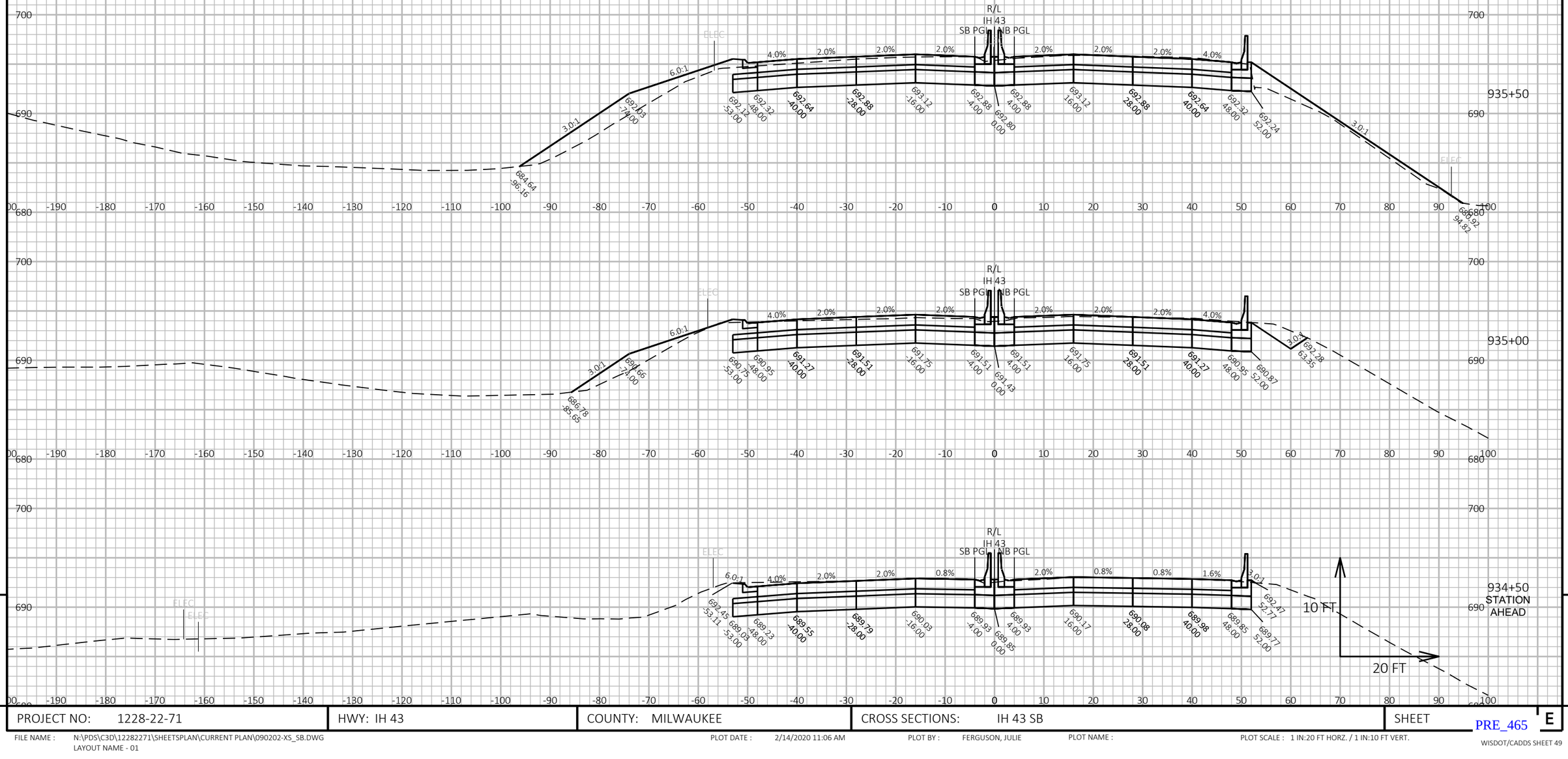
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 NB	SHEET E

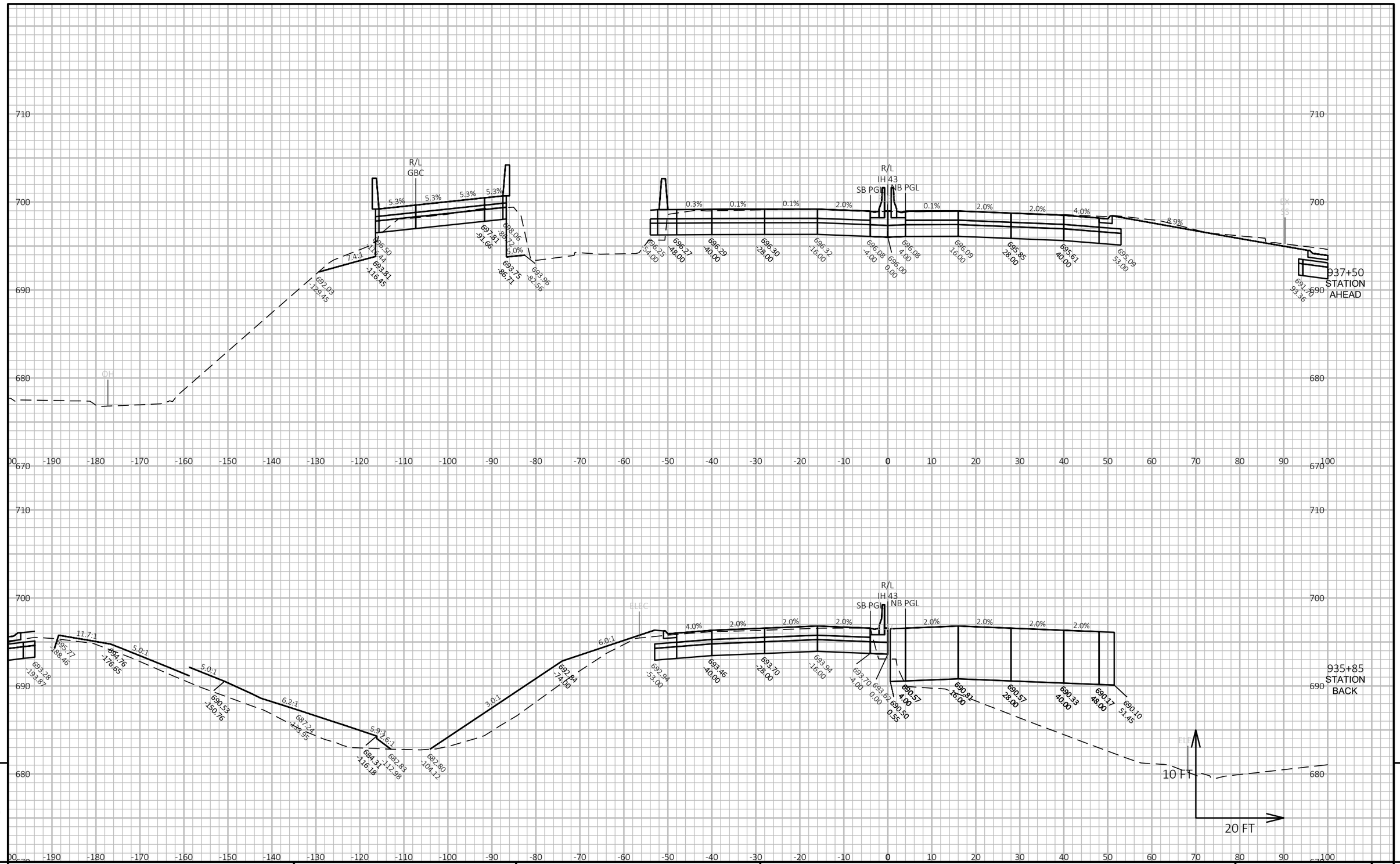
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090201-XS_NB.DWG
LAYOUT NAME - 64

PLOT DATE : 2/14/2020 11:02 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_464

WISDOT/CADDS SHEET 49


R/L
IH 43
SB PGL
NB PGL
ELEC
935+50
935+00
934+50
STATION
AHEAD
10 FT
20 FT
3.0:1
6.0:1
4.0%
2.0%
0.8%
1.6%
692.64
-40.00
692.88
-28.00
693.12
-16.00
692.88
-4.00
692.80
0.00
692.88
4.00
693.12
16.00
692.88
28.00
692.64
40.00
692.32
48.00
692.24
52.00
692.03
-74.00
692.12
-53.00
692.32
-48.00
684.64
-96.16
691.27
-40.00
691.51
-28.00
691.75
-16.00
691.51
-4.00
691.43
0.00
691.51
4.00
691.75
16.00
691.51
28.00
691.27
40.00
690.95
48.00
690.87
52.00
690.66
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690.75
-53.00
690.95
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686.78
-85.65
689.55
-40.00
689.79
-28.00
690.03
-16.00
689.93
-4.00
689.85
0.00
689.93
4.00
690.17
16.00
690.08
28.00
689.98
40.00
689.85
48.00
689.77
52.00
689.03
-74.00
692.45
-53.11
689.03
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689.23
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689.03
-74.00
689.03
-74.00
689.03
-74



9

9

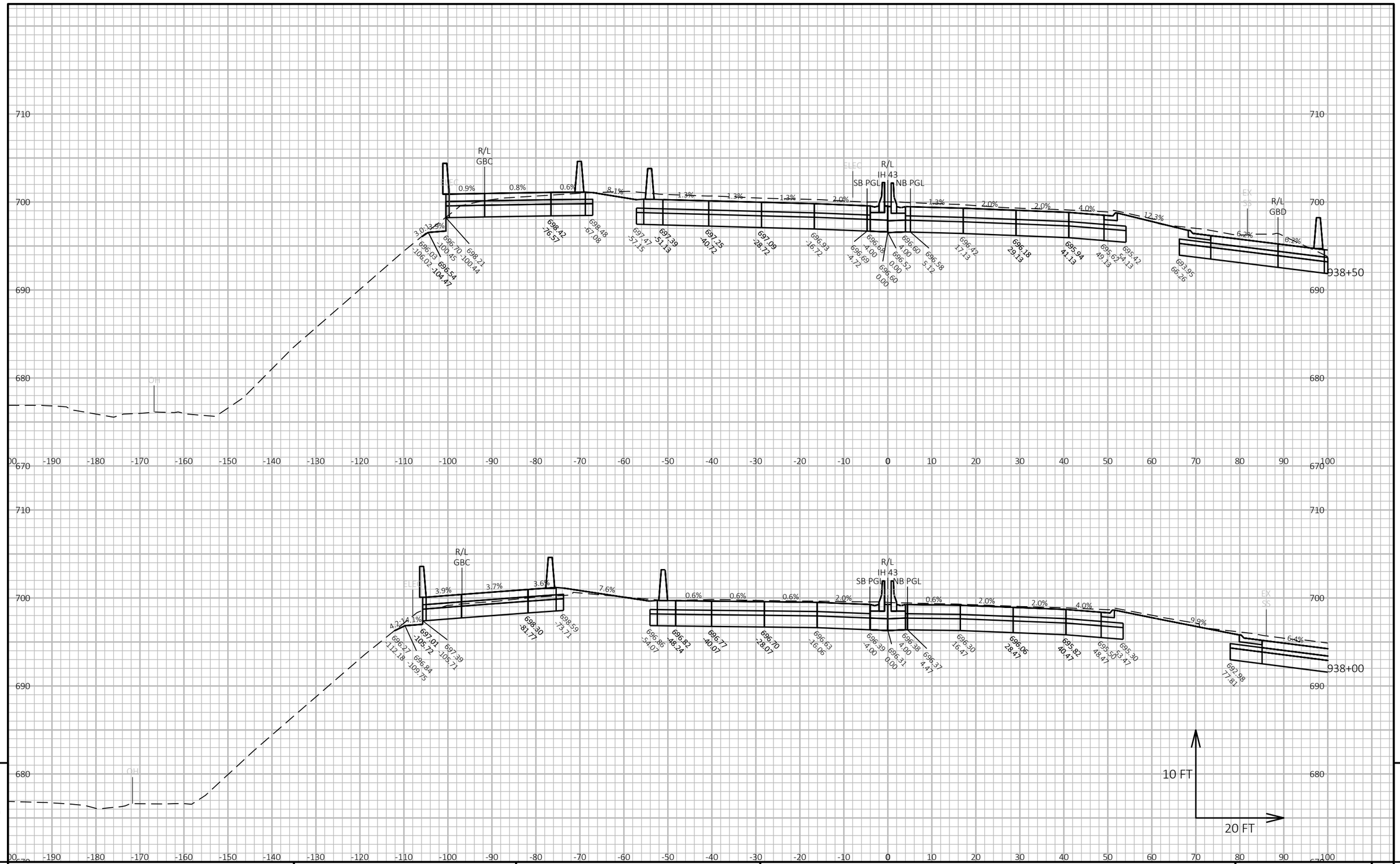
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_466

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 11:06 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



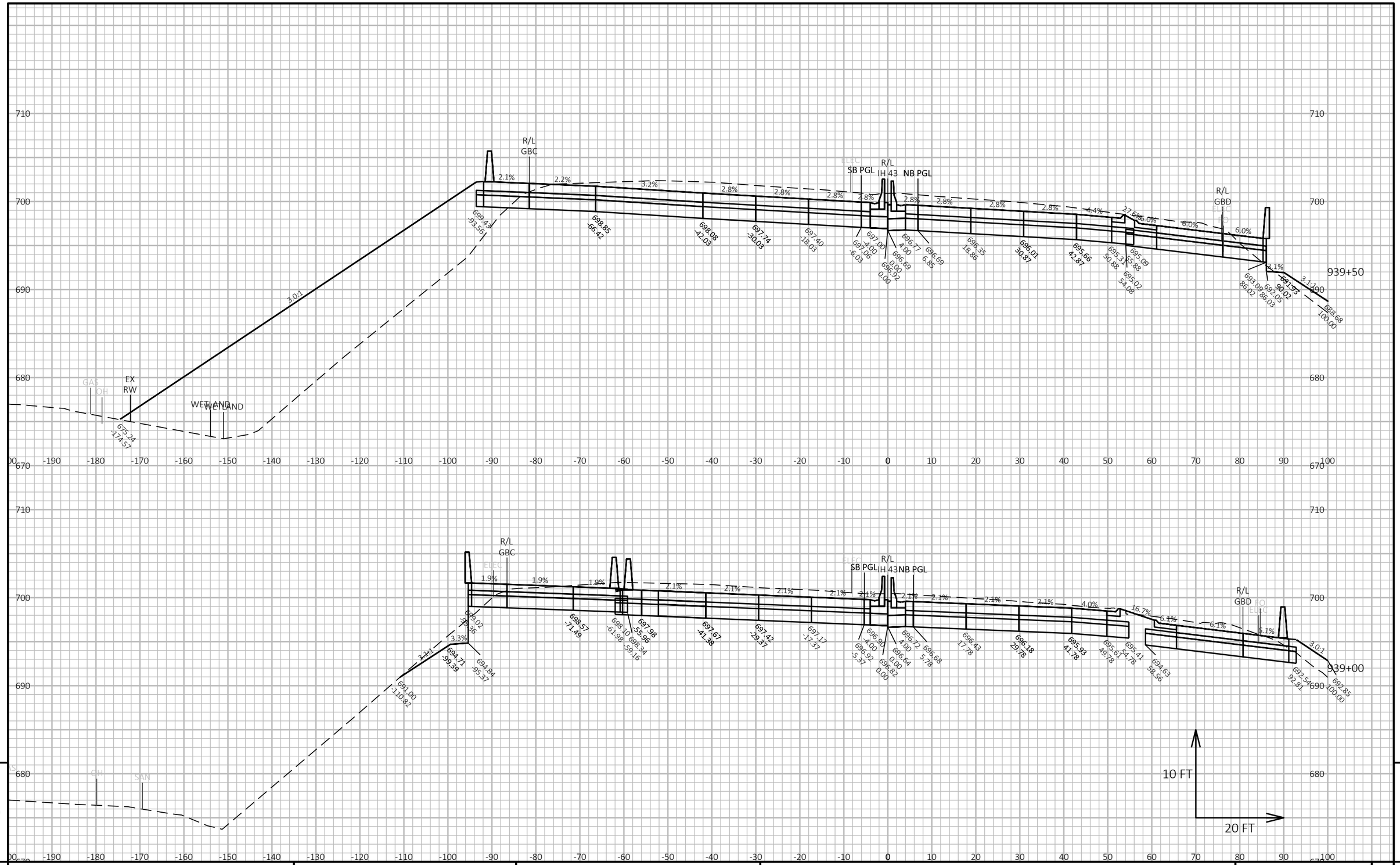
9

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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET PRE_467 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 11:06 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_468

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 04

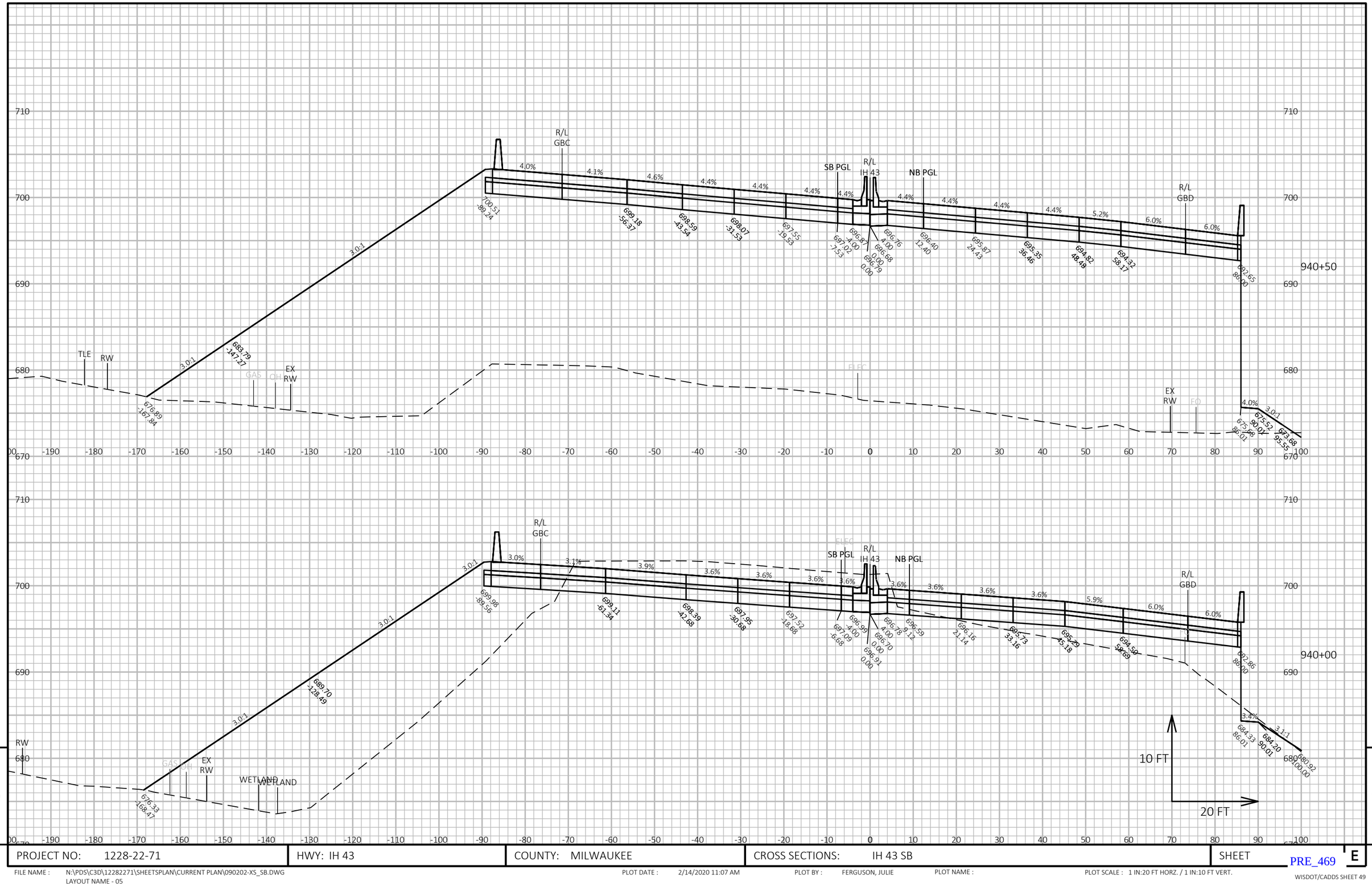
PLOT DATE : 2/14/2020 11:06 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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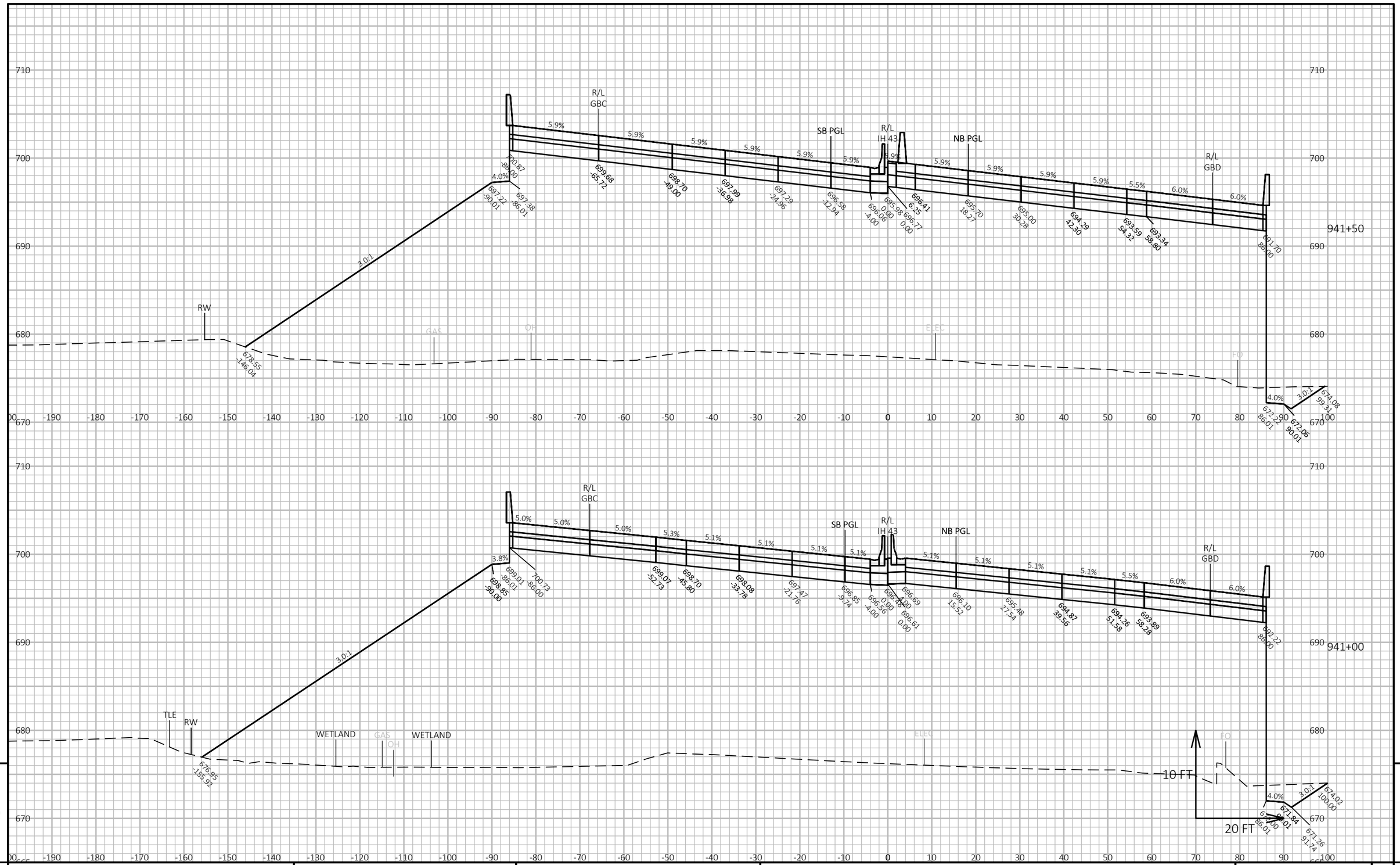
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_469

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 11:07 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



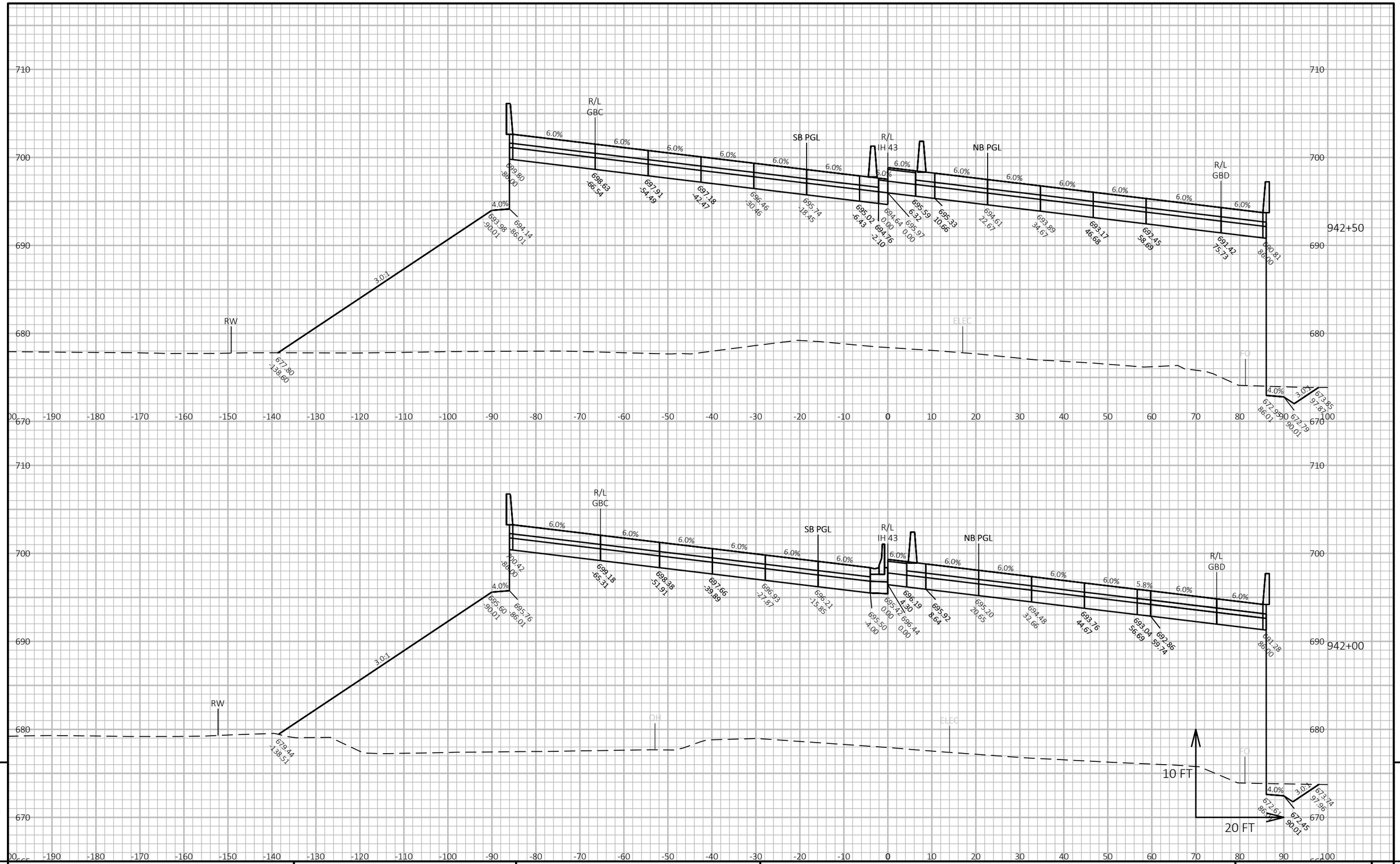
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_470

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 11:07 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

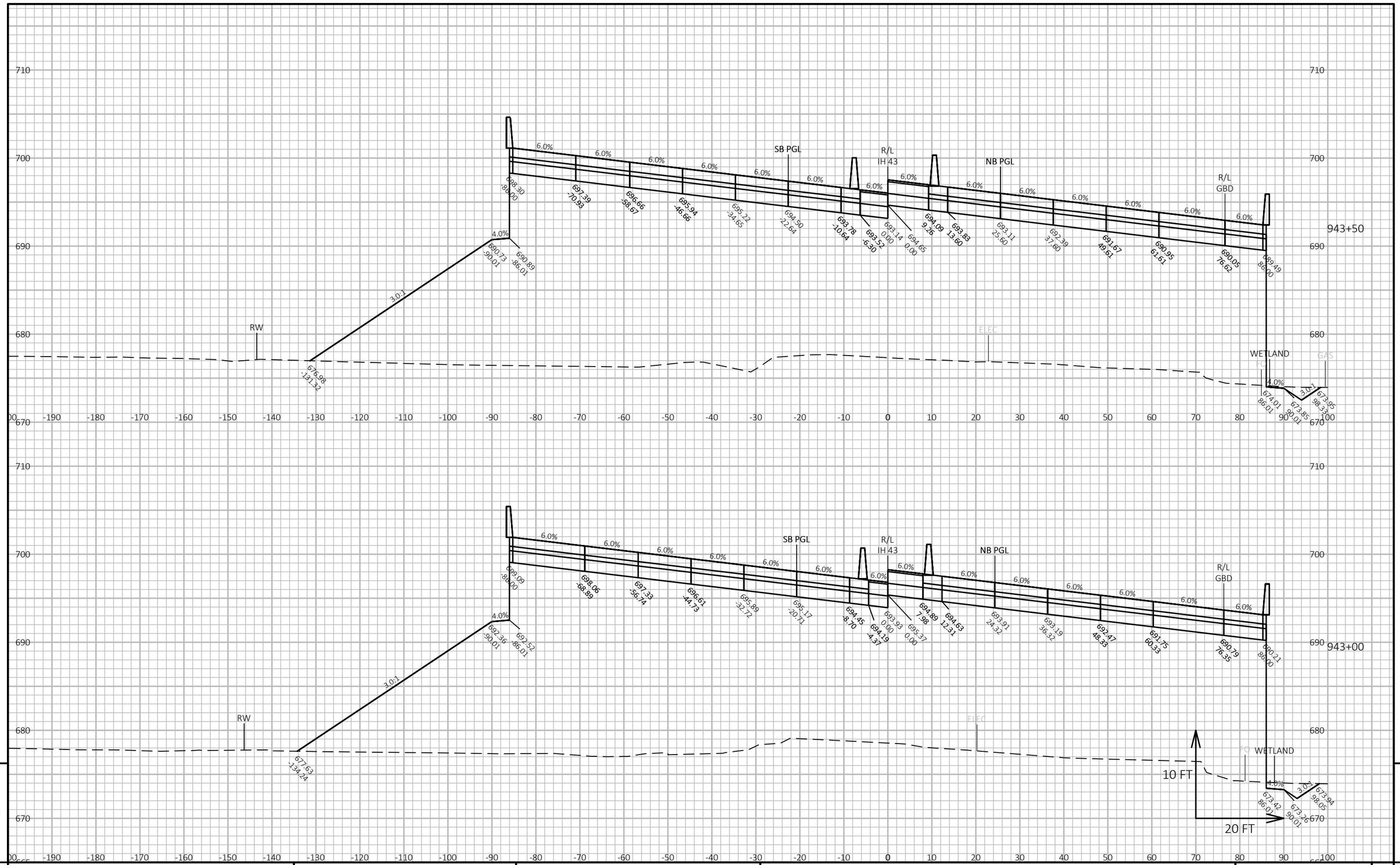


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET PRE_471 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 07

PLOT DATE : 2/14/2020 11:07 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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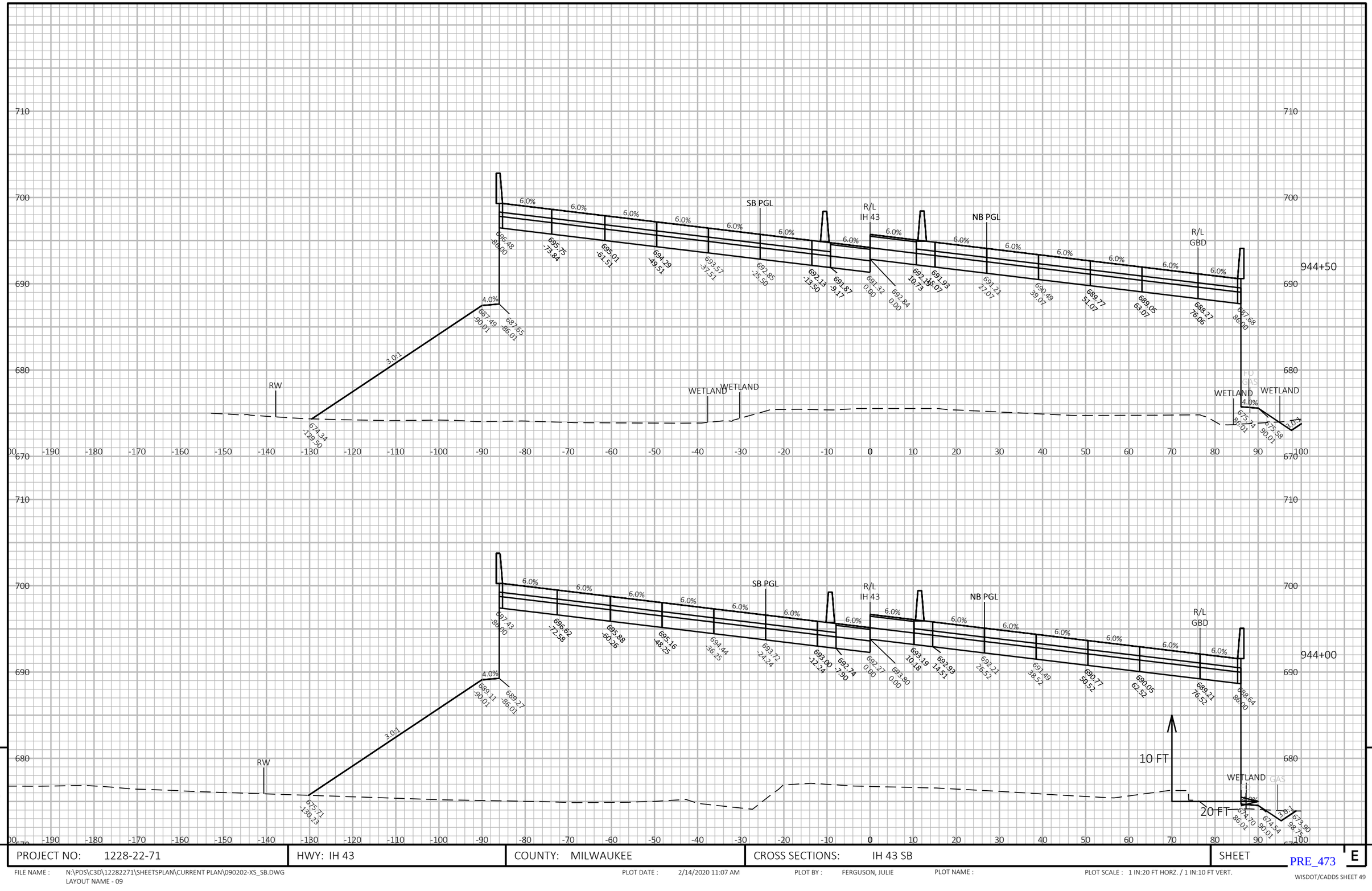
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_472

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 08

PLOT DATE : 2/14/2020 11:07 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 09

PLOT DATE : 2/14/2020 11:07 AM

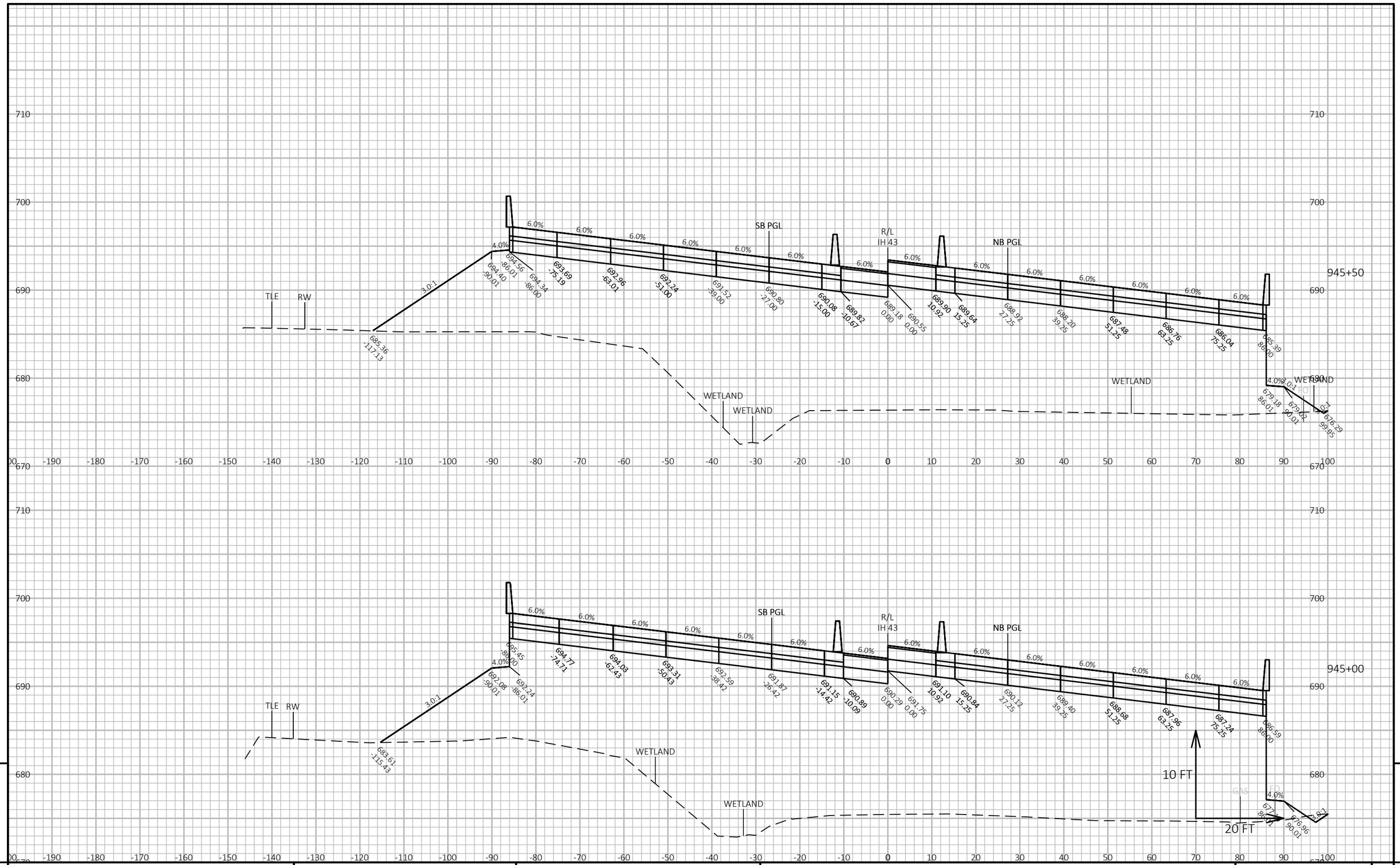
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_473

WISDOT/CADDS SHEET 49



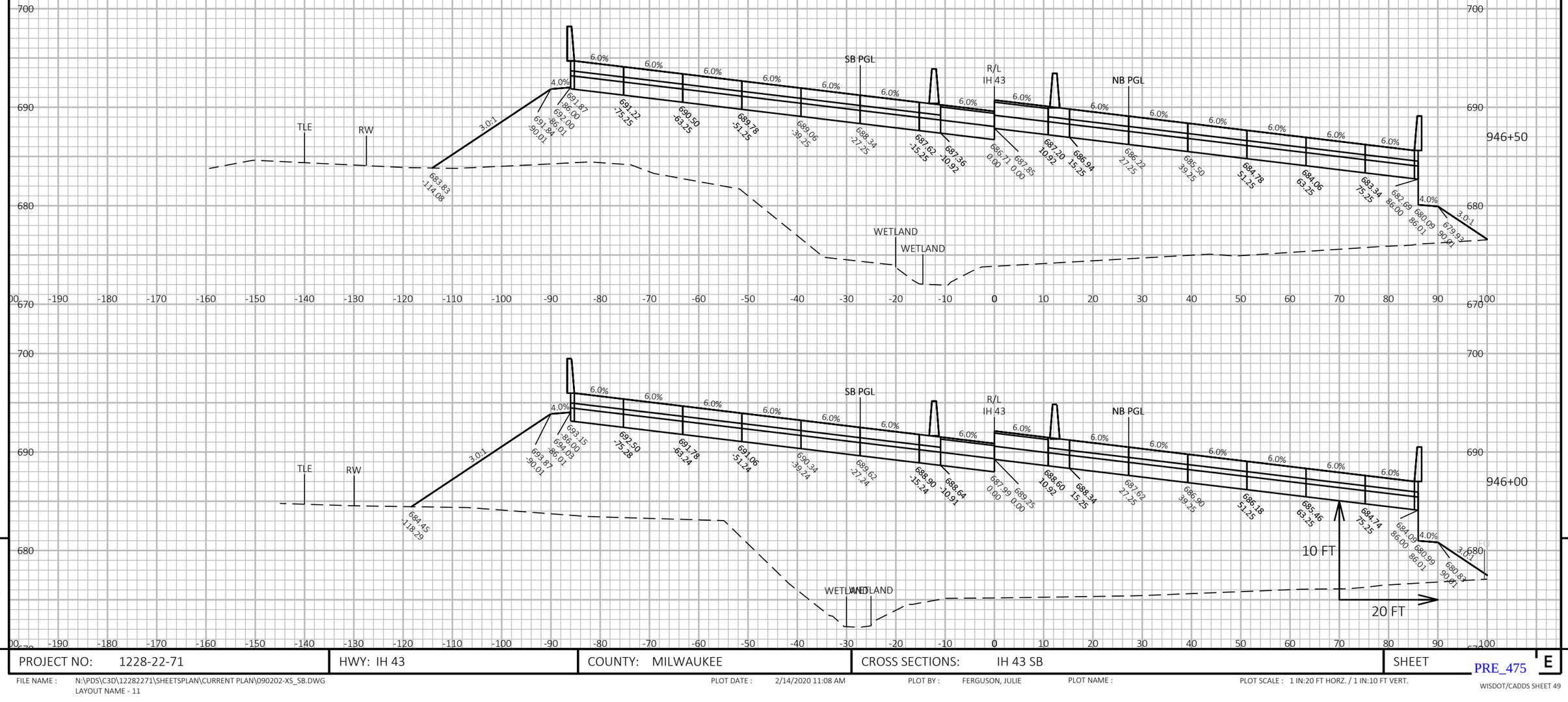
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 10

PLOT DATE : 2/14/2020 11:07 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_474

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_475

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 11

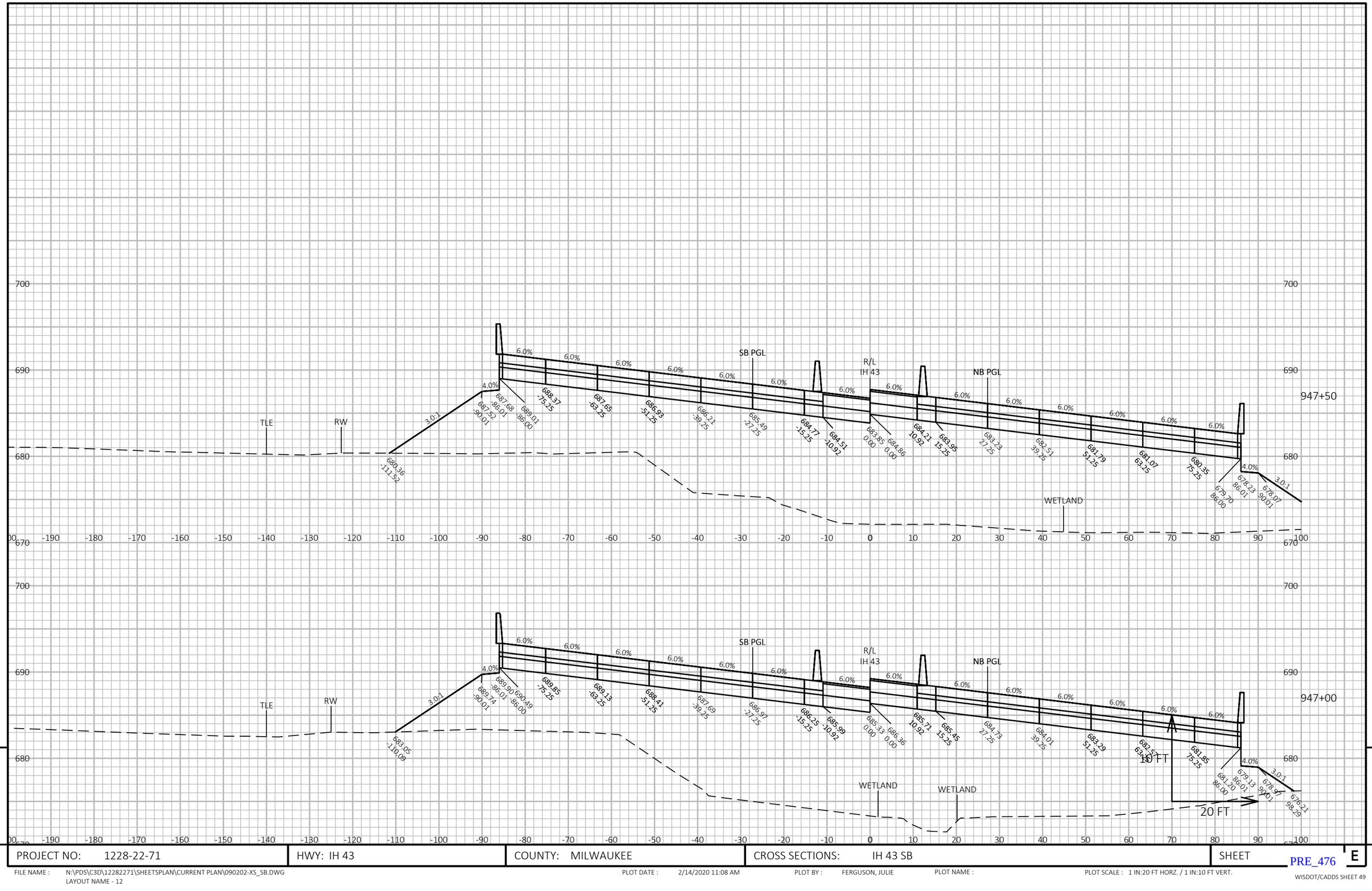
PLOT DATE : 2/14/2020 11:08 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



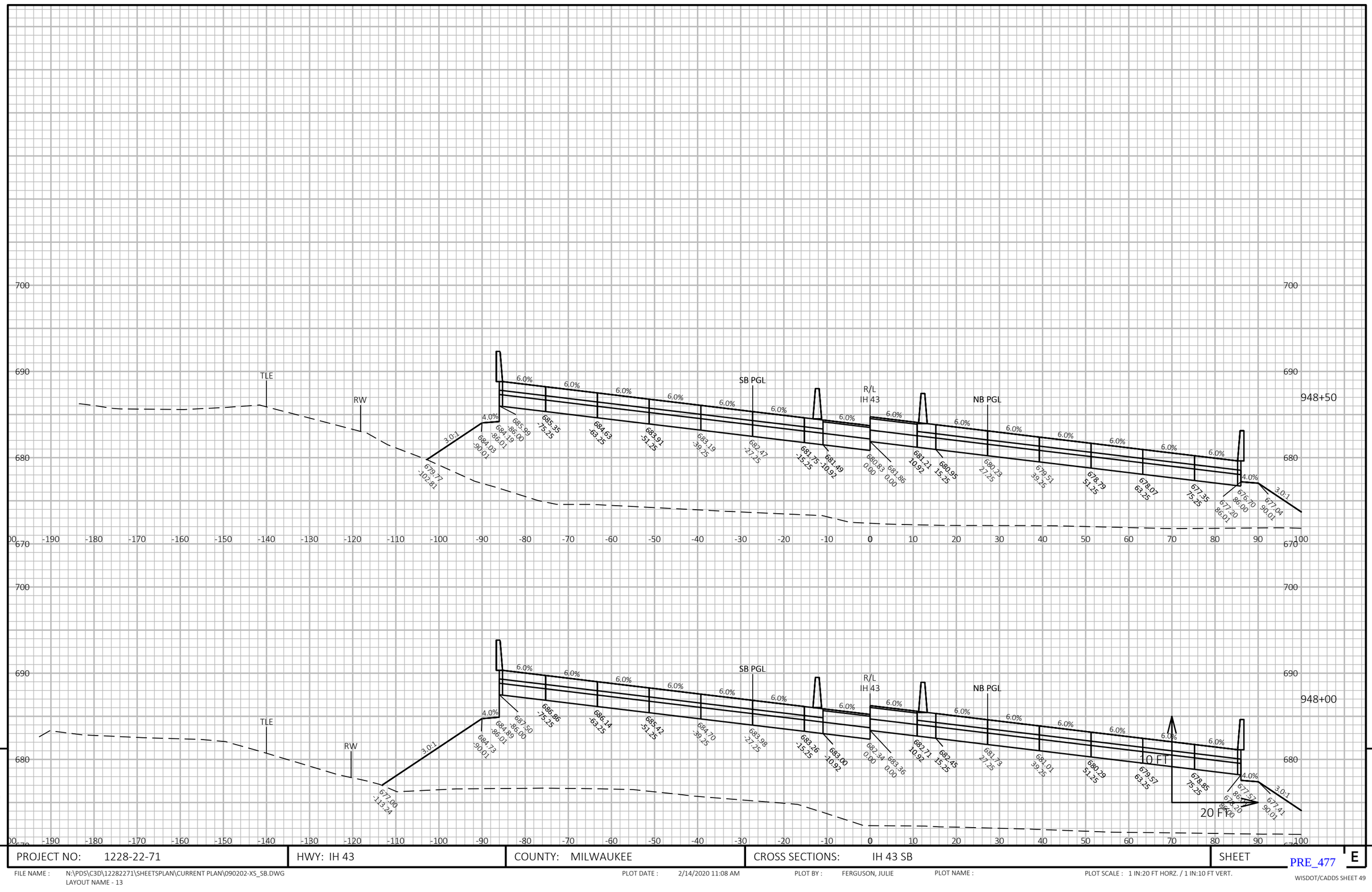
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 12

PLOT DATE : 2/14/2020 11:08 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_476

WISDOT/CADDS SHEET 49



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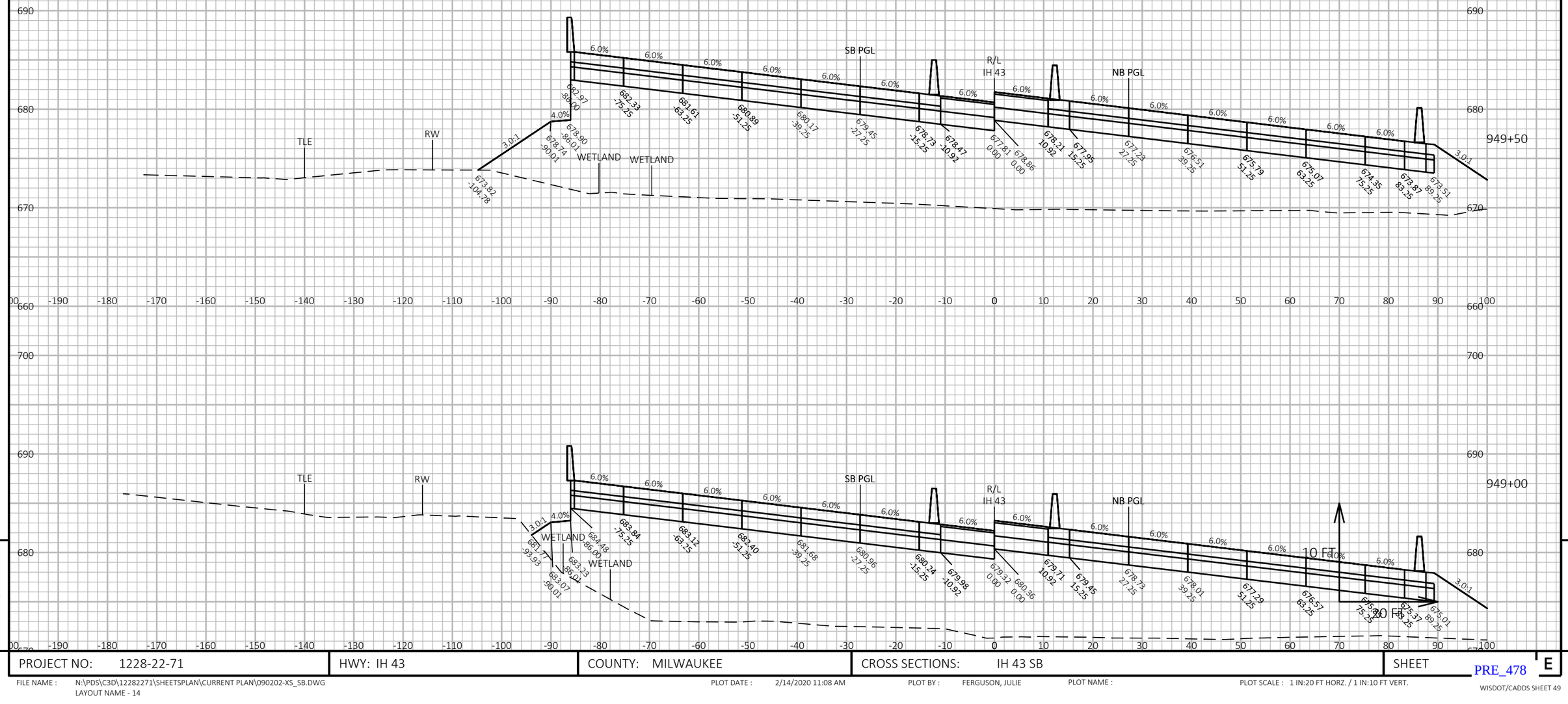
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_477

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 13

PLOT DATE : 2/14/2020 11:08 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



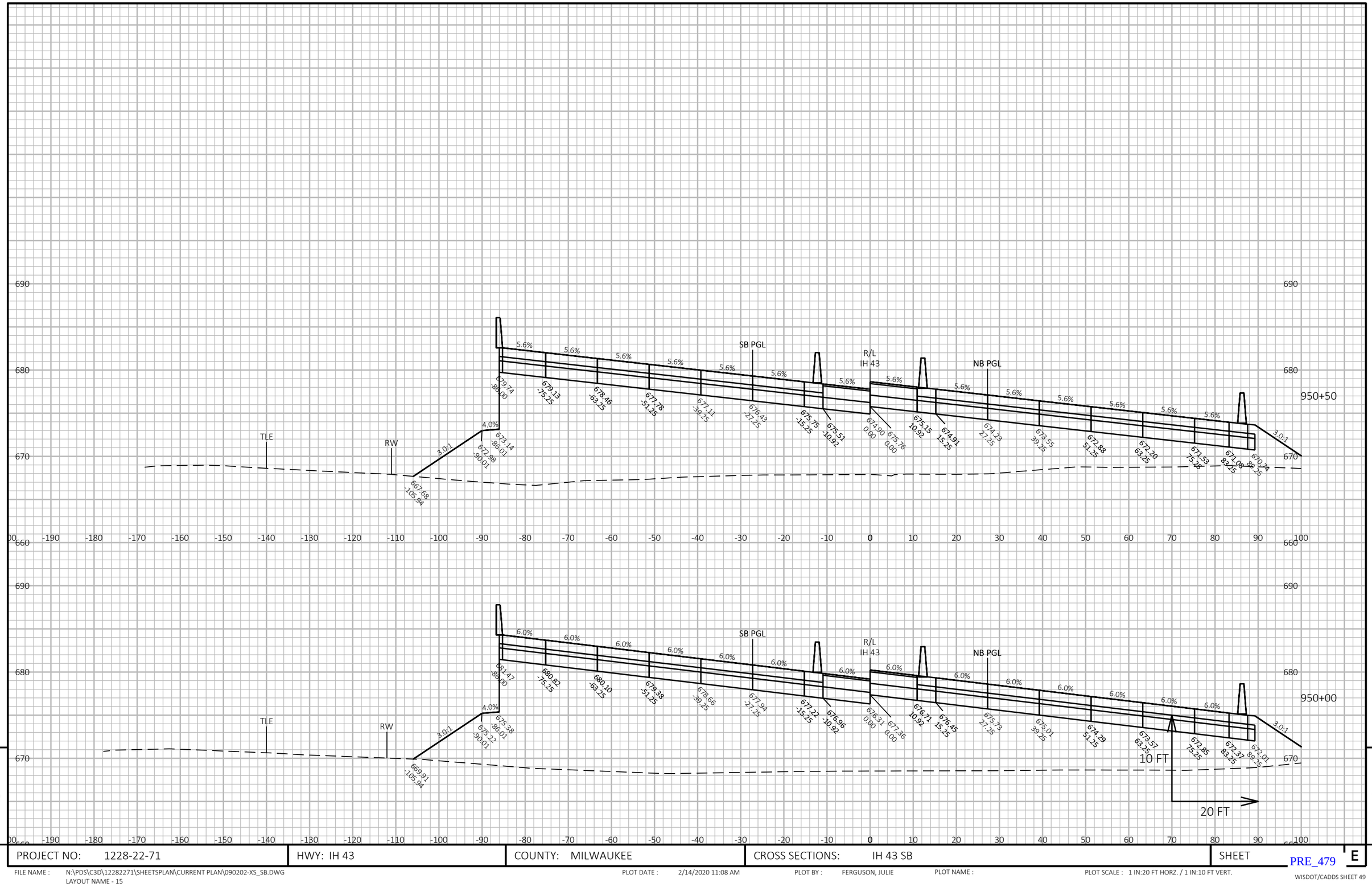
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 14

PLOT DATE : 2/14/2020 11:08 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_478

WISDOT/CADDS SHEET 49



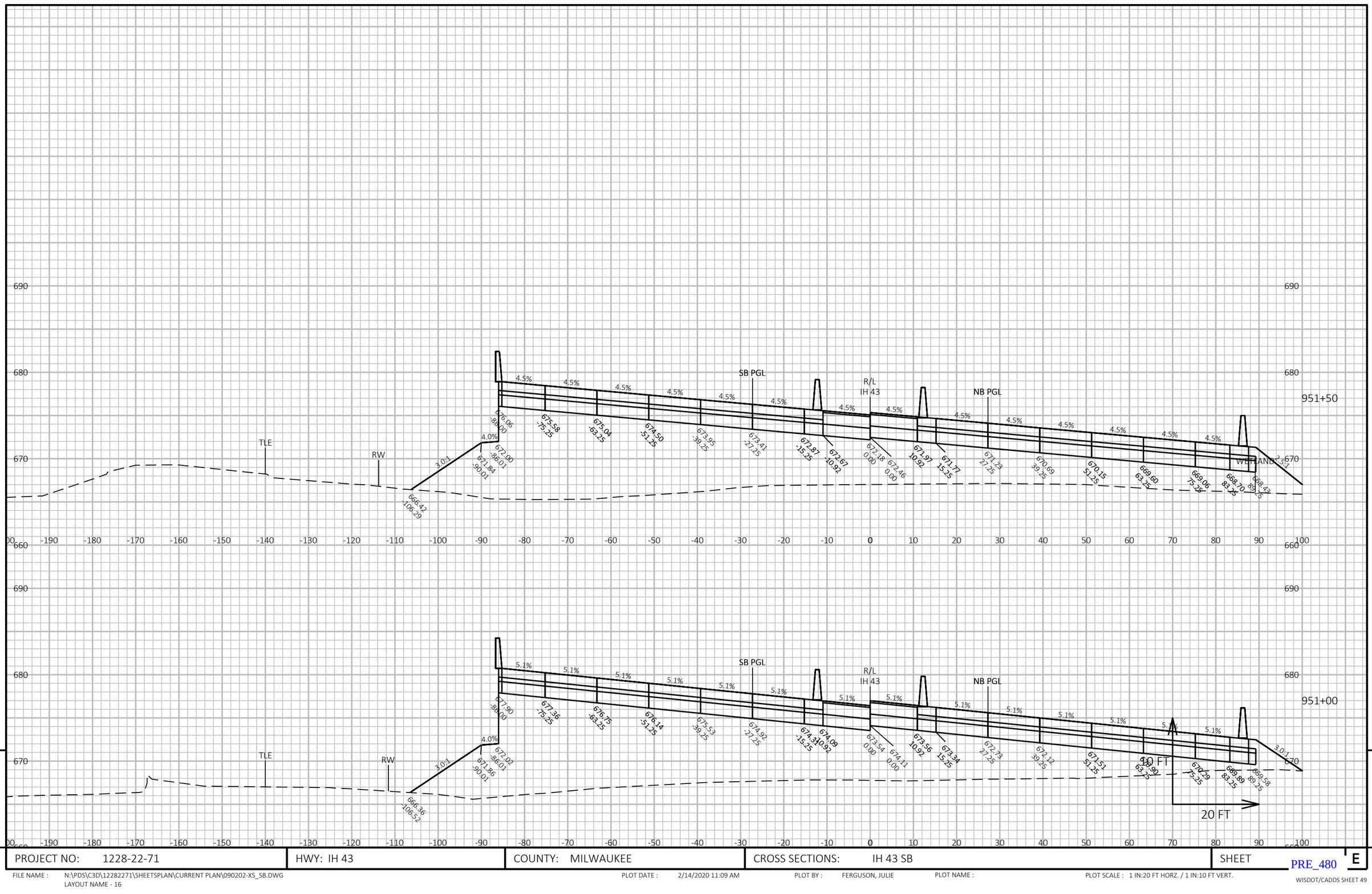
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_479

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 15

PLOT DATE : 2/14/2020 11:08 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_480

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 16

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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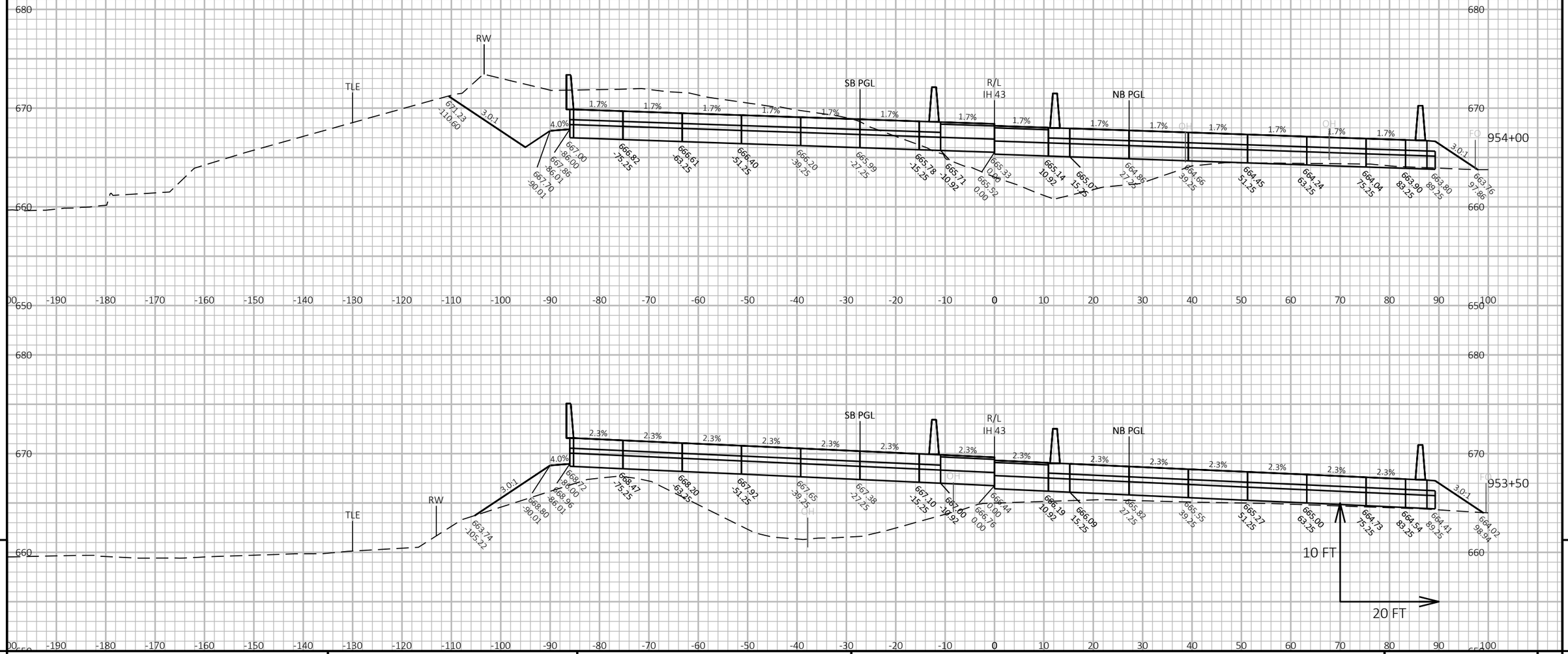
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_481

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 17

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



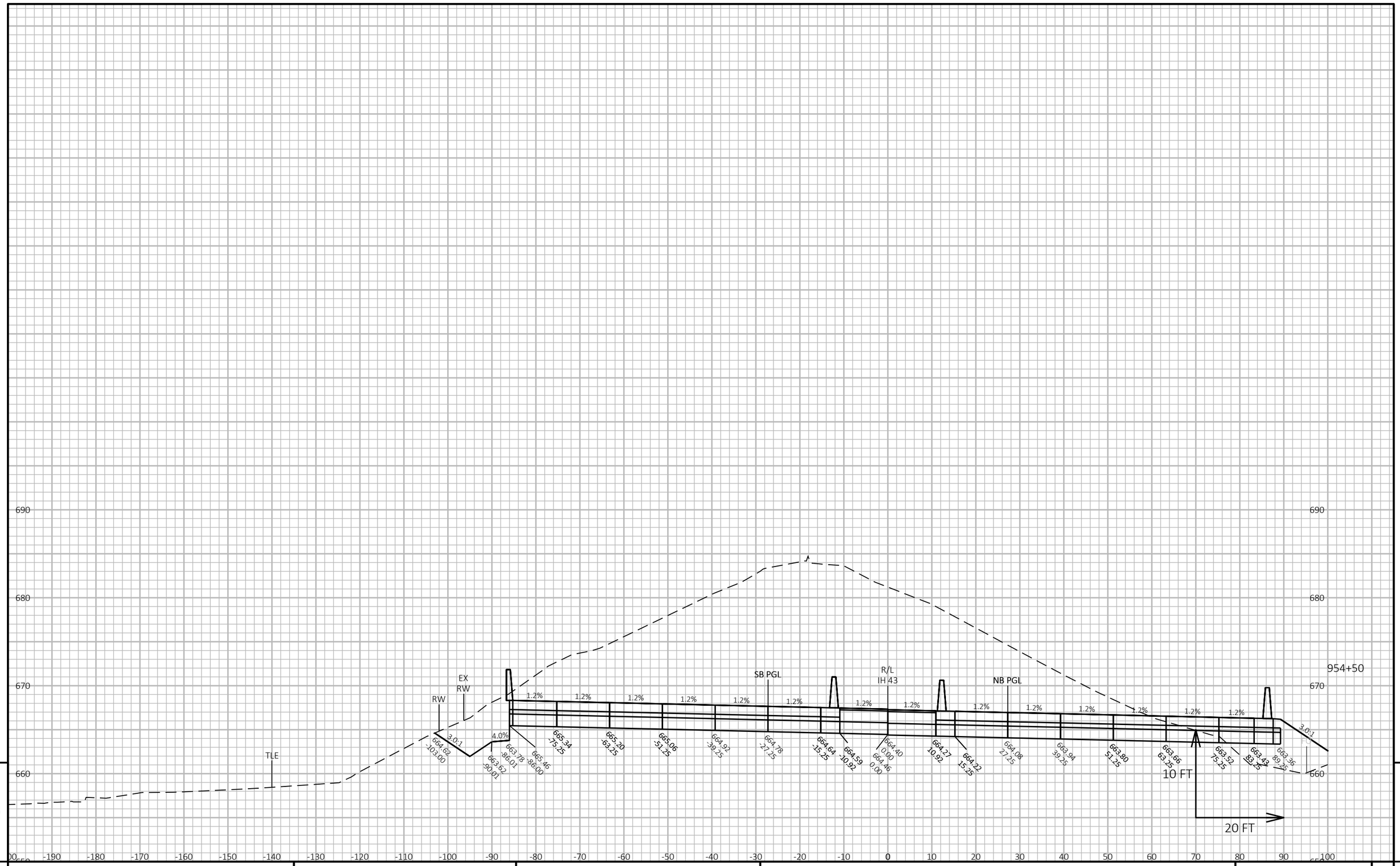
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 18

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_482

WISDOT/CADDS SHEET 49



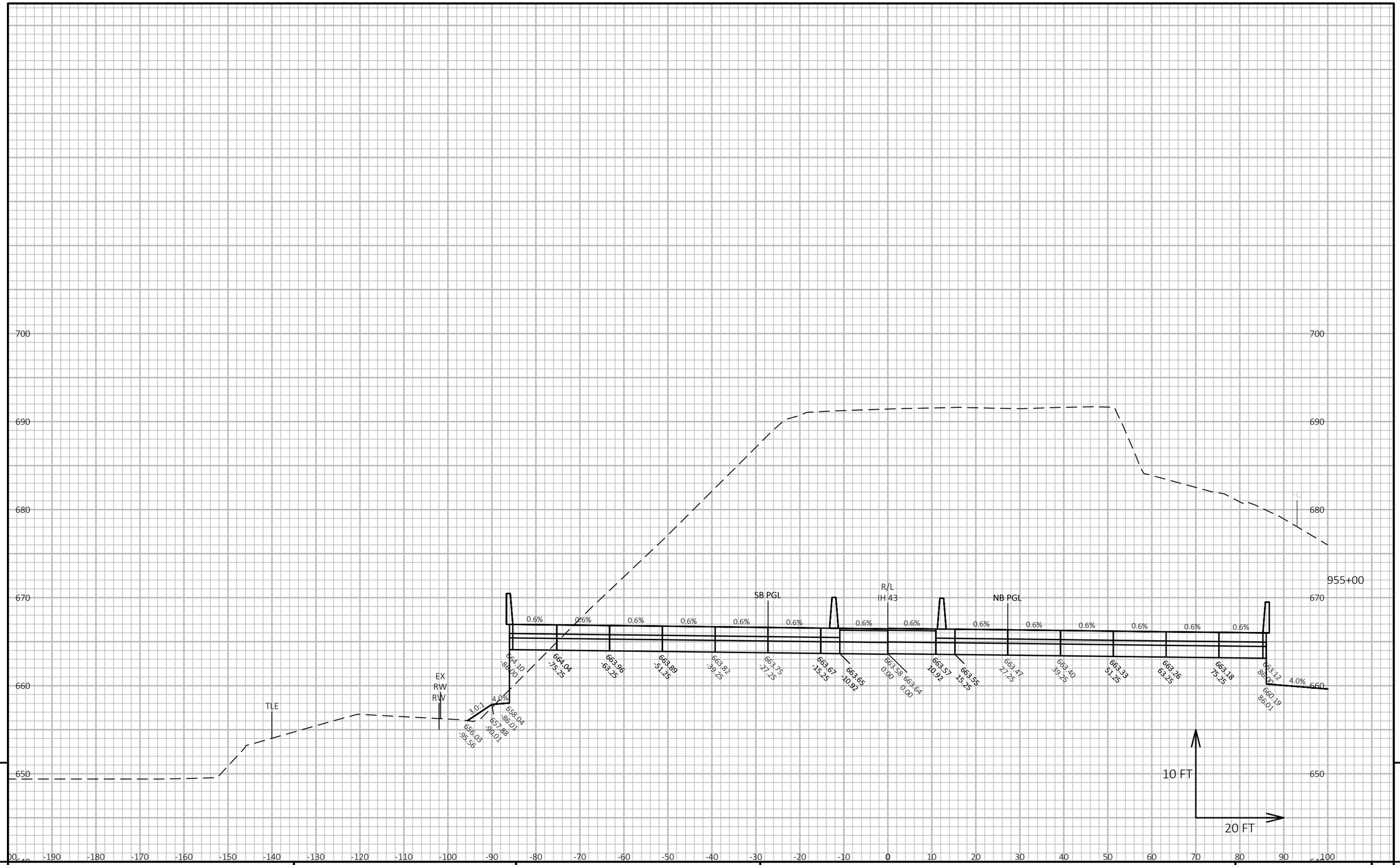
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_483

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 19

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9 9

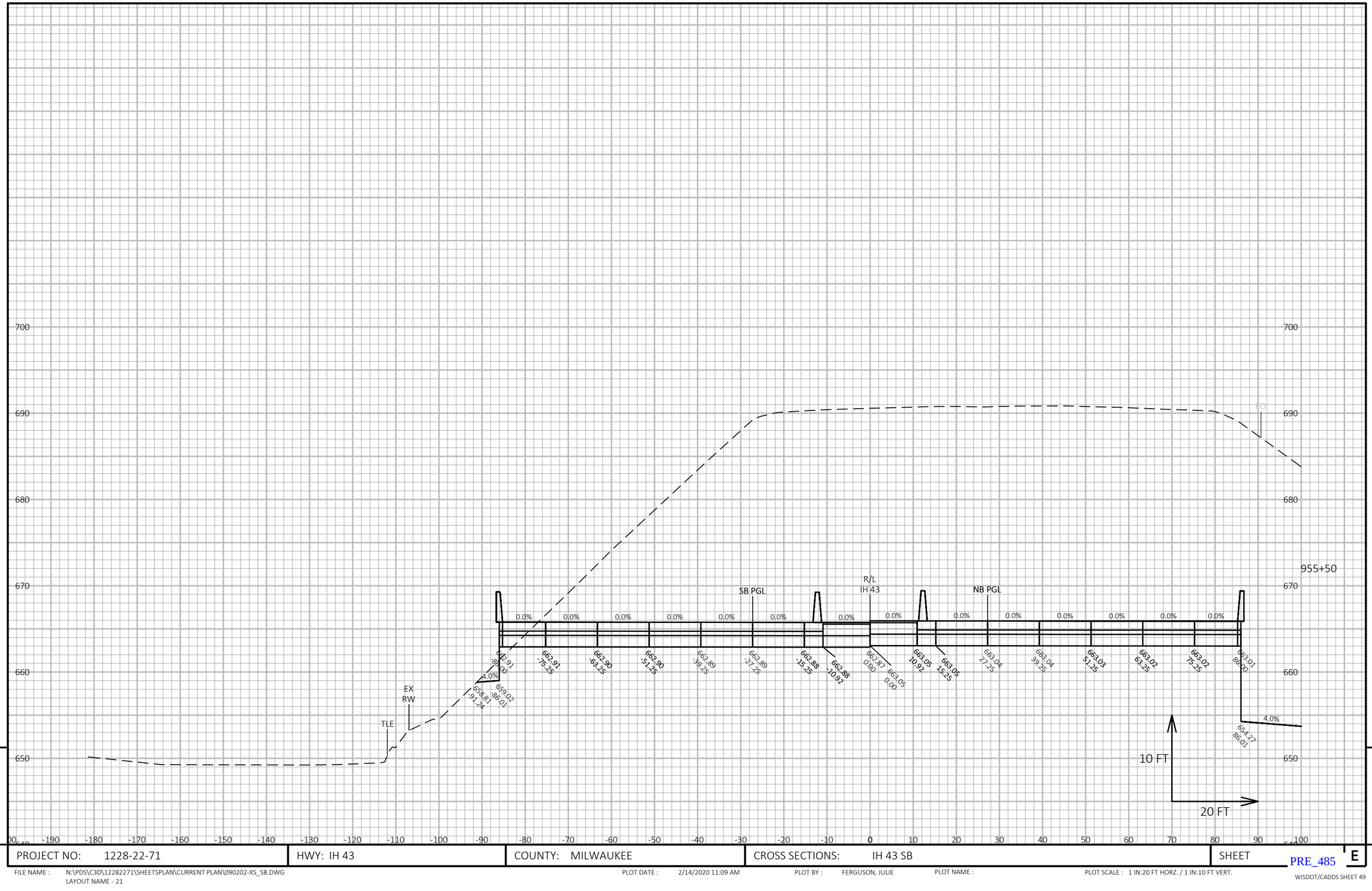
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_484

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 20

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

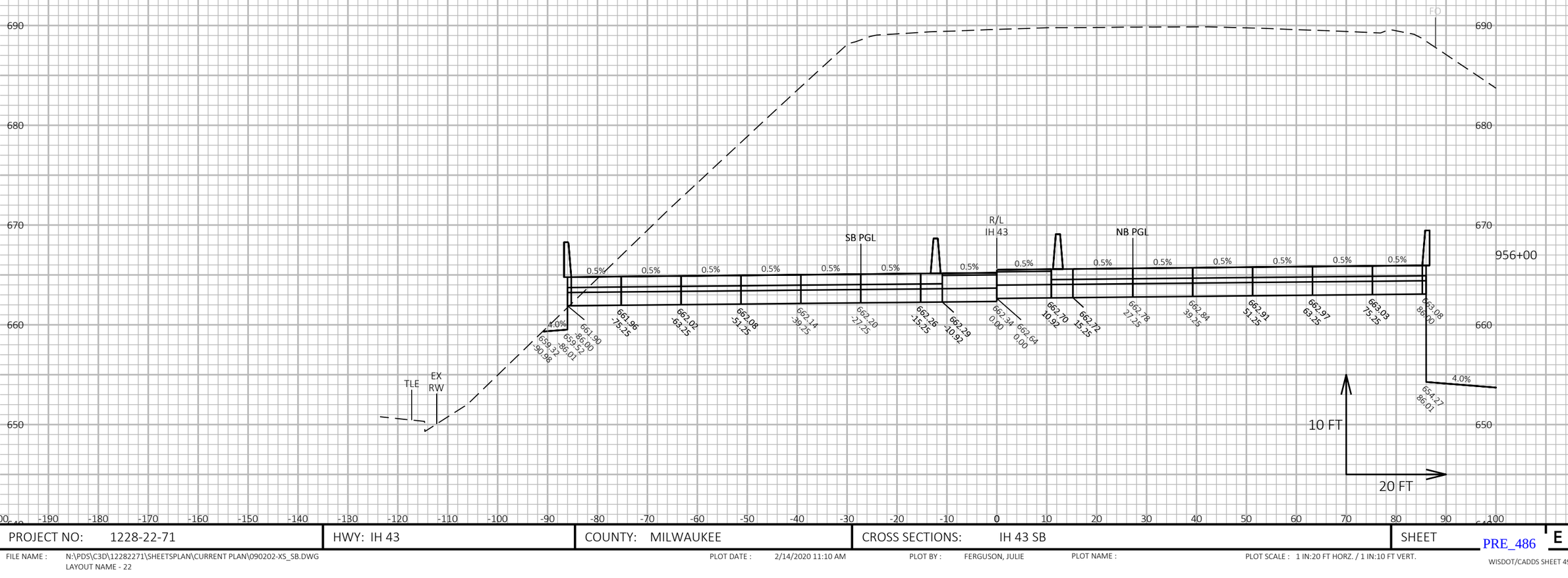
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 21

PLOT DATE : 2/14/2020 11:09 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_485

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 22

PLOT DATE : 2/14/2020 11:10 AM

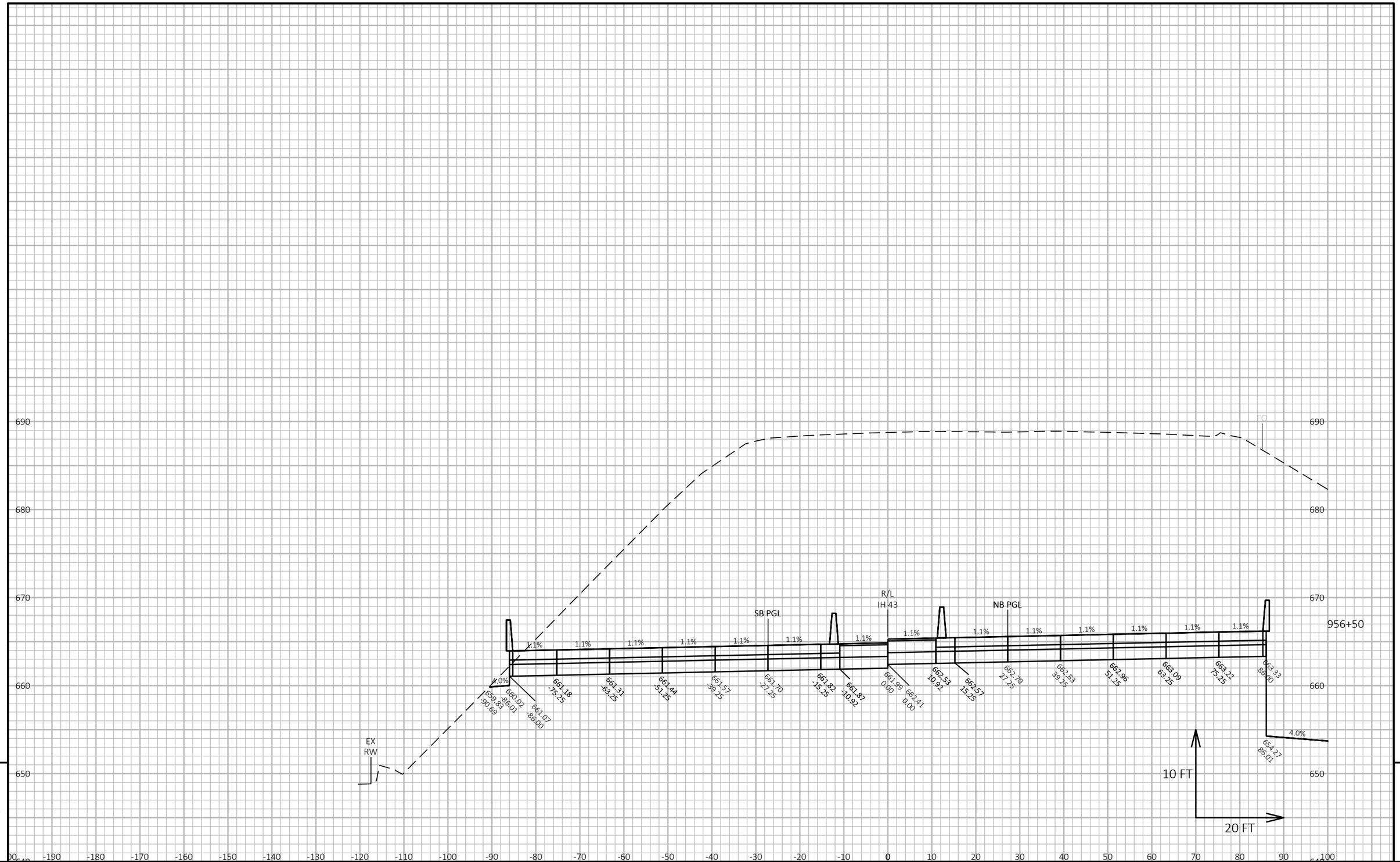
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_486

WISDOT/CADDS SHEET 49



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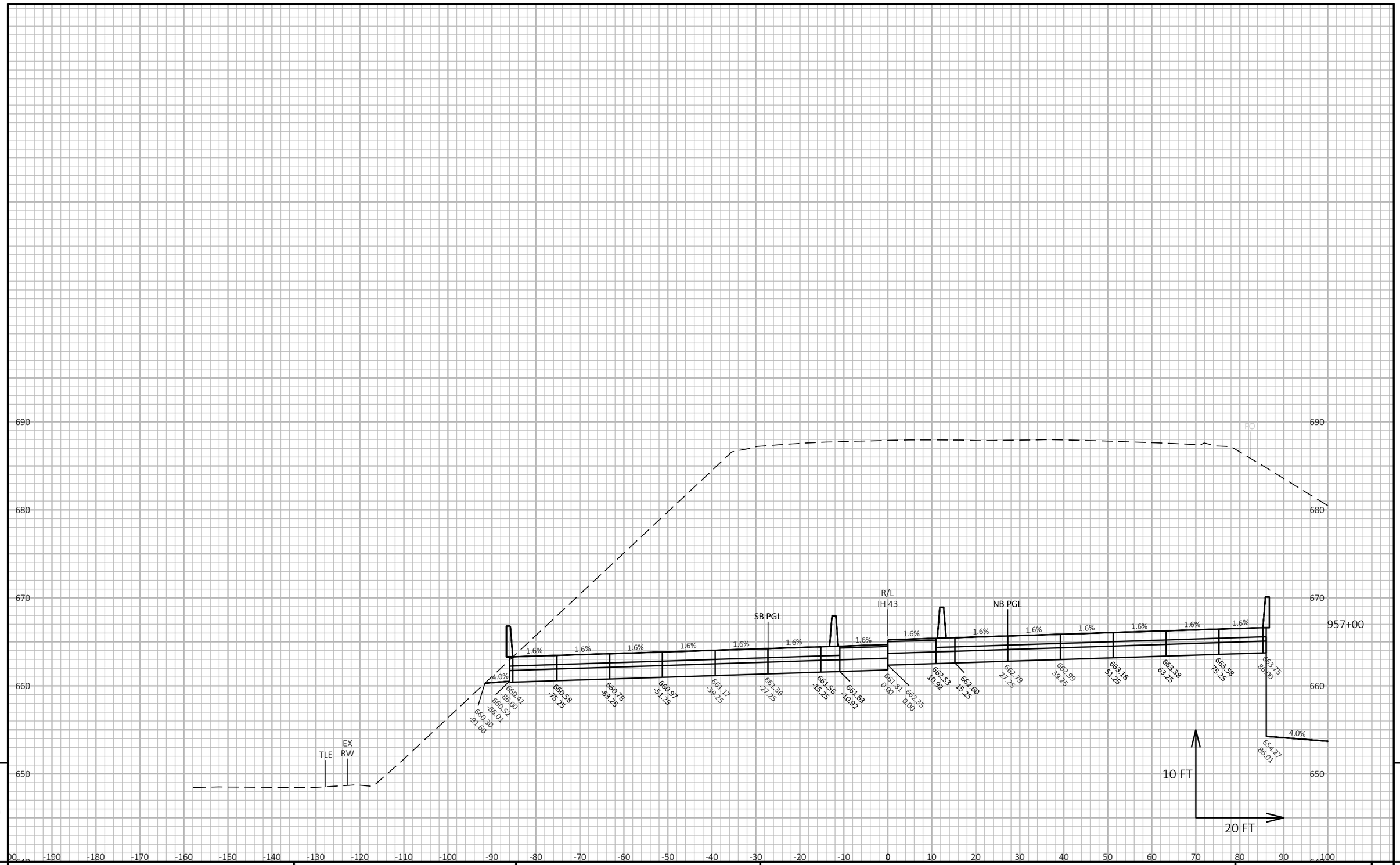
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_487

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 23

PLOT DATE : 2/14/2020 11:10 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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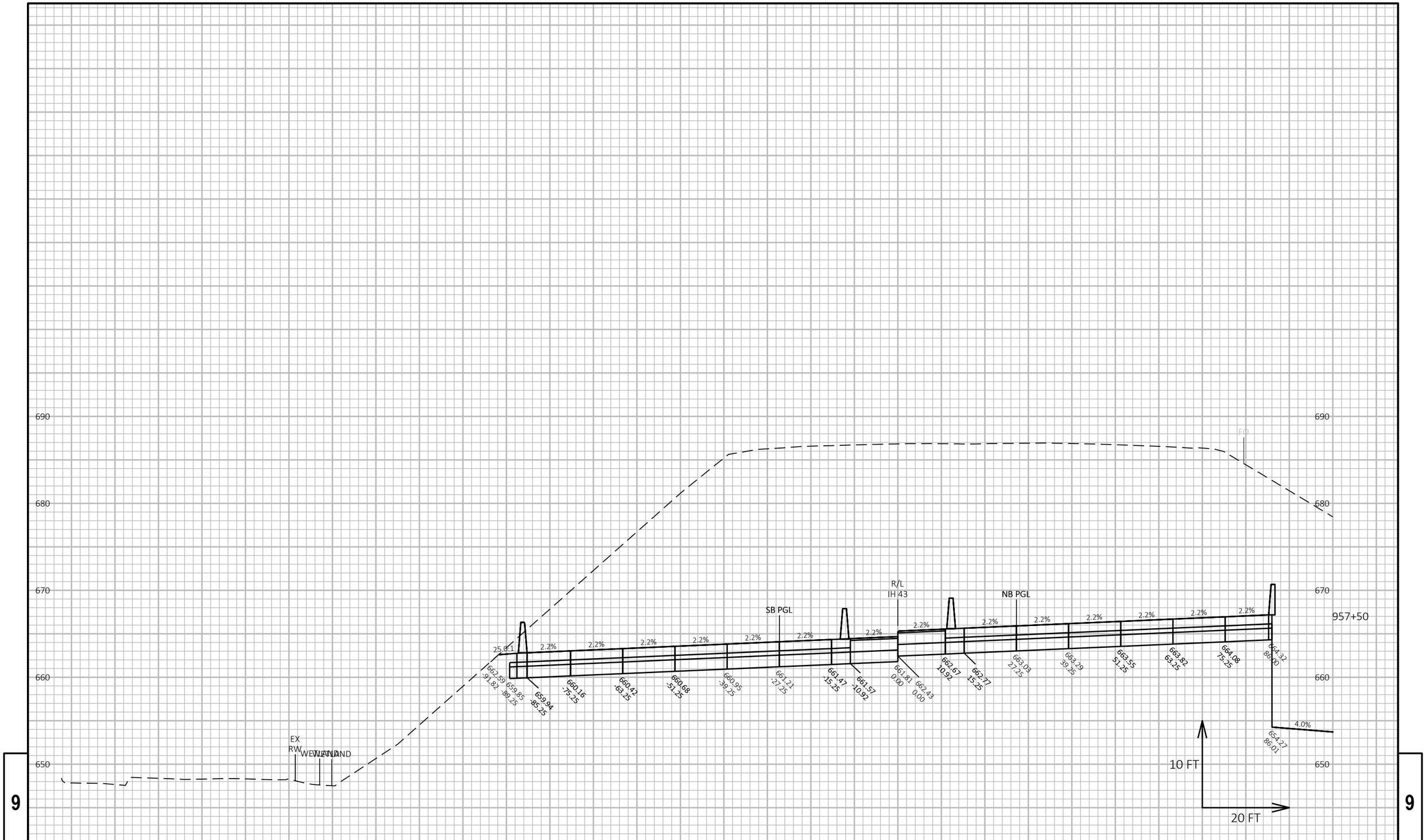
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_488

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 24

PLOT DATE : 2/14/2020 11:10 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 25

PLOT DATE : 2/14/2020 11:10 AM

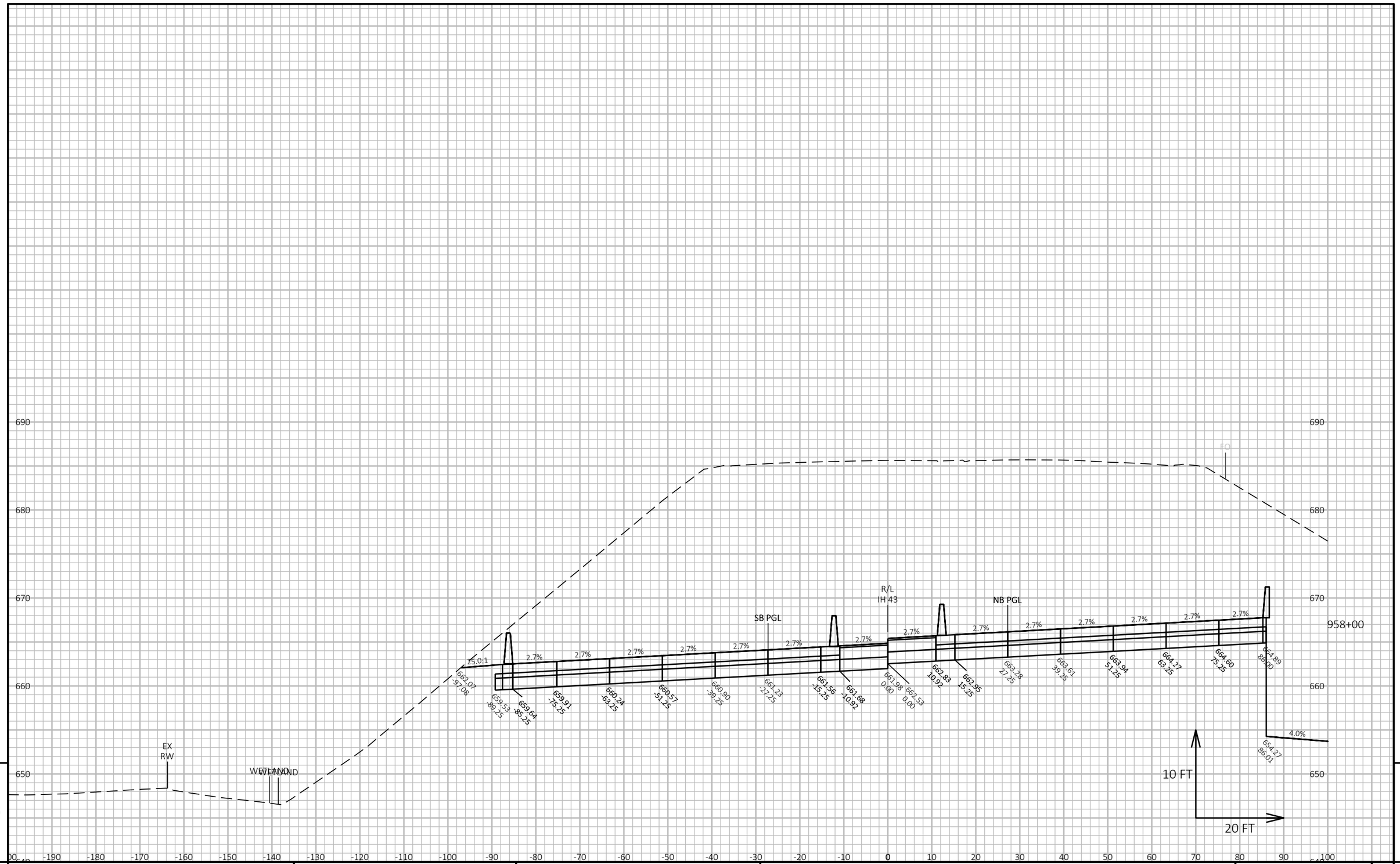
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_489

WISDOT/CADDS SHEET 49



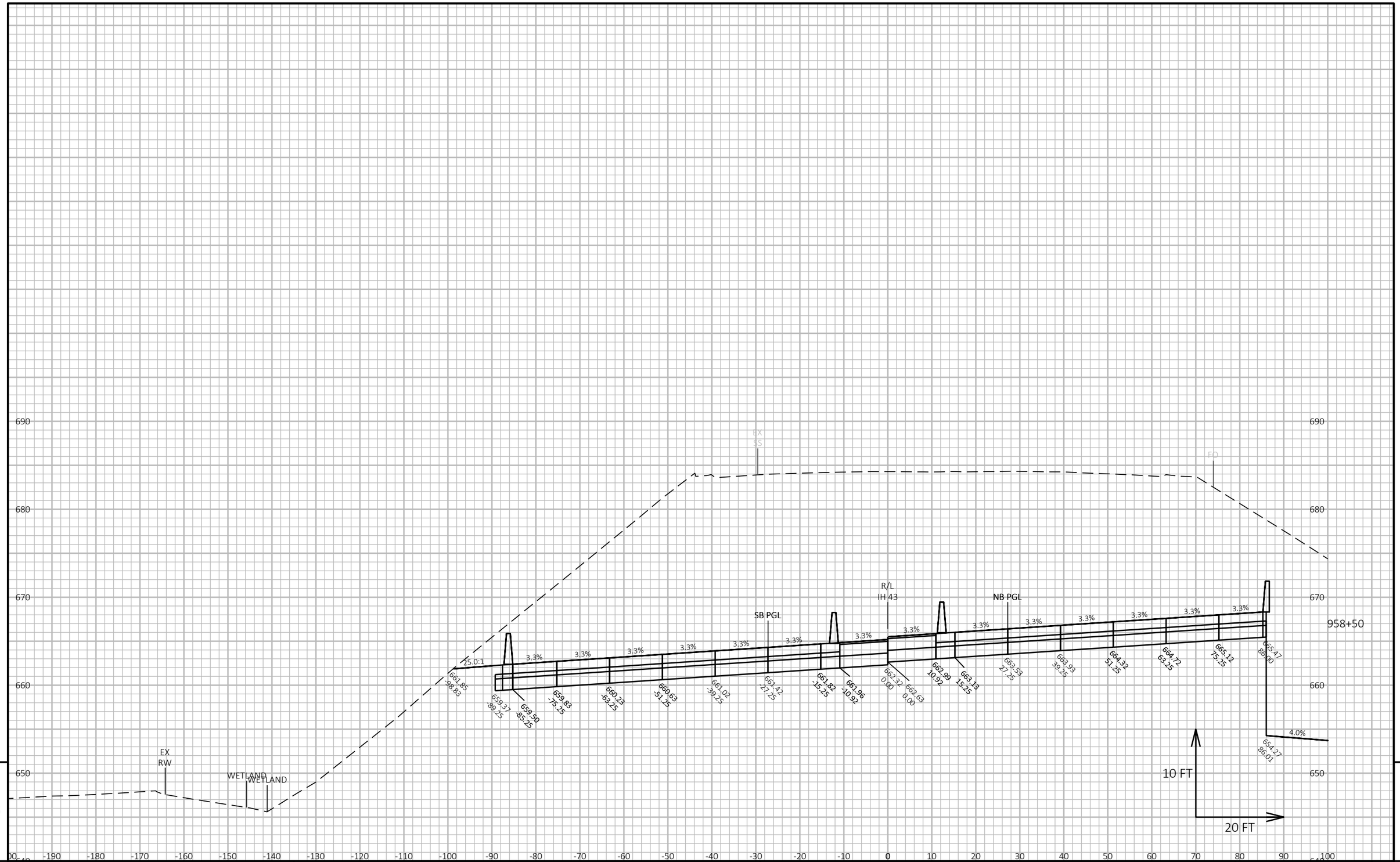
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_490

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 26

PLOT DATE : 2/14/2020 11:10 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



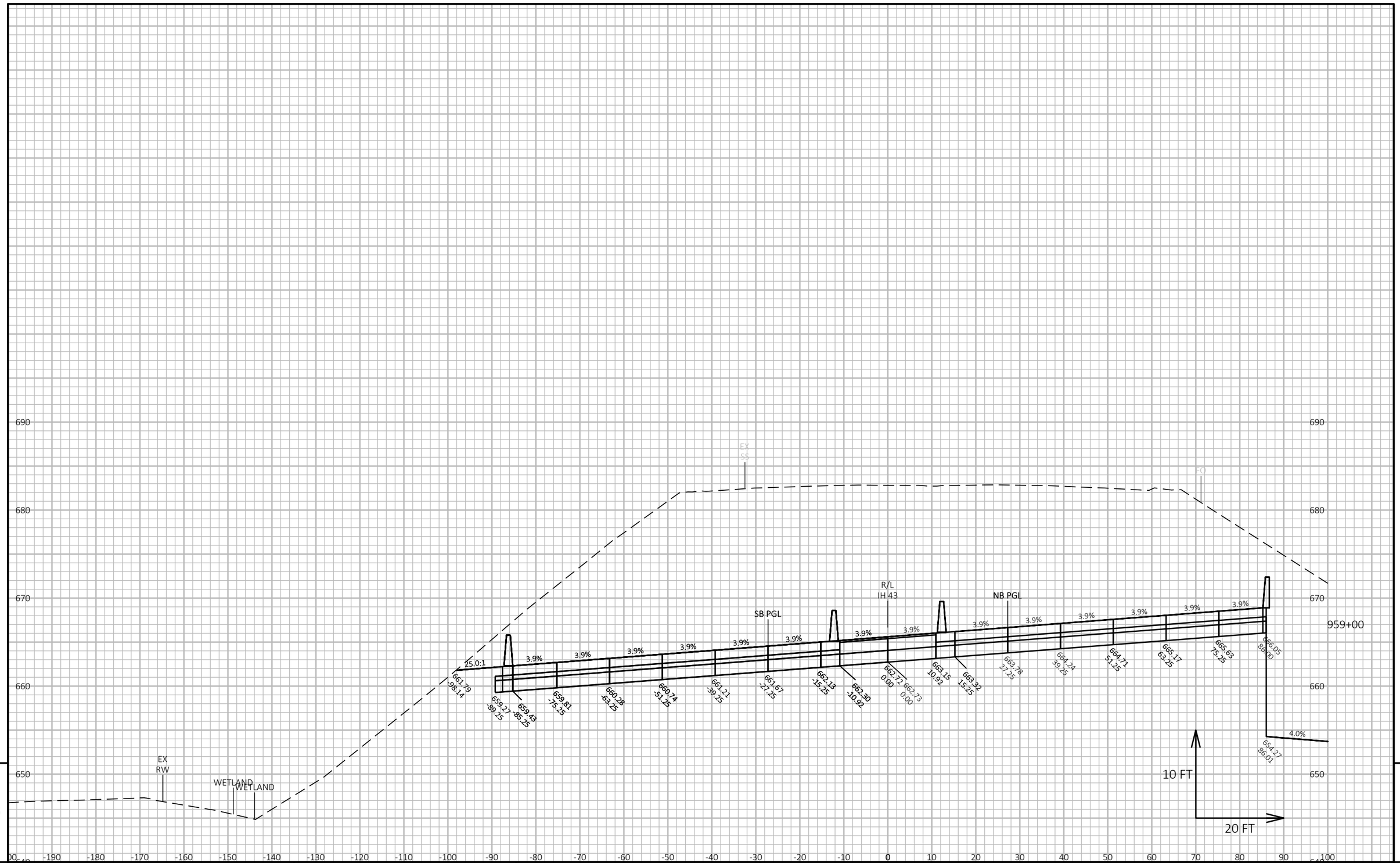
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_491

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 27

PLOT DATE : 2/14/2020 11:10 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 28

PLOT DATE : 2/14/2020 11:11 AM

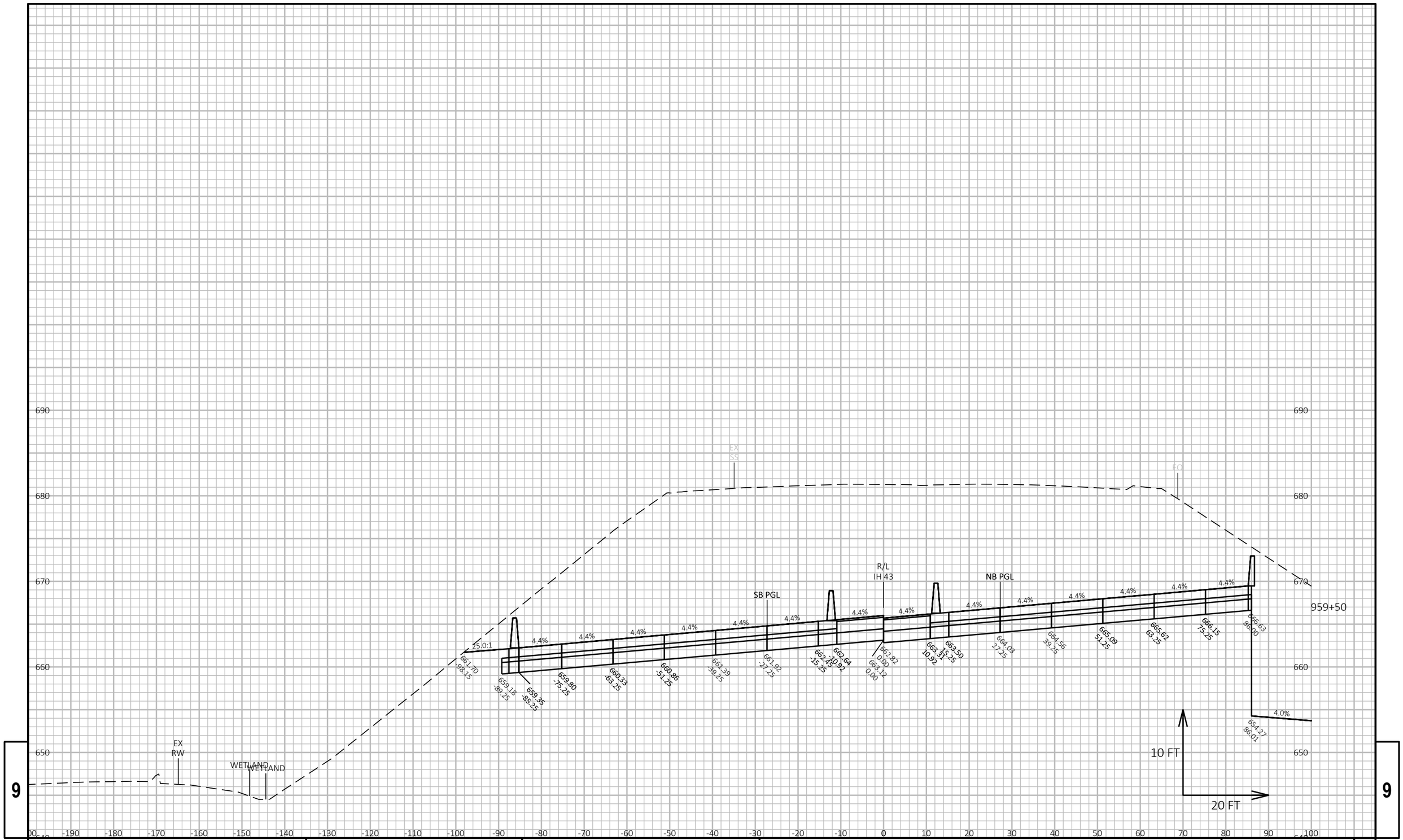
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_492

WISDOT/CADDS SHEET 49



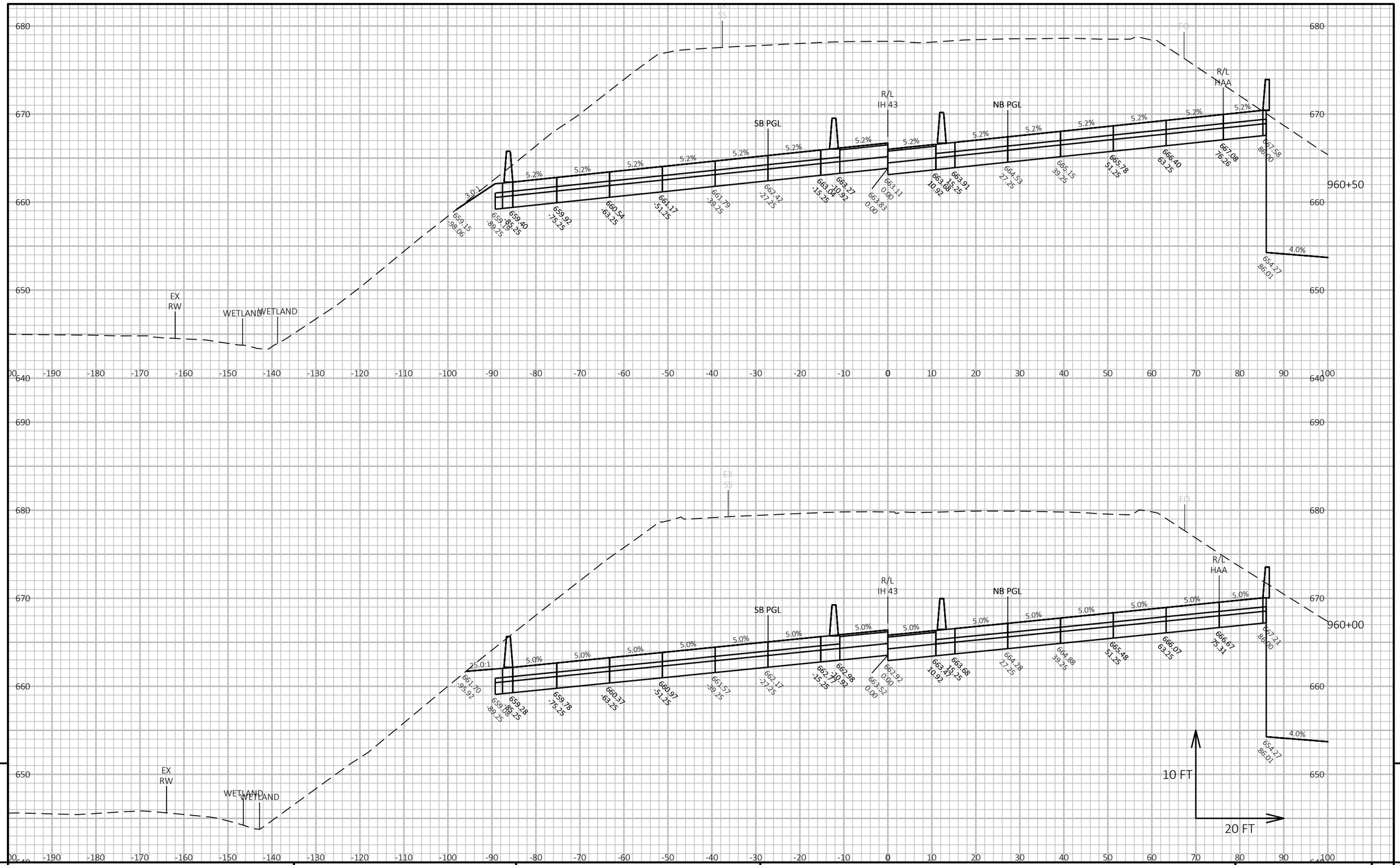
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_493

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 29

PLOT DATE : 2/14/2020 11:11 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



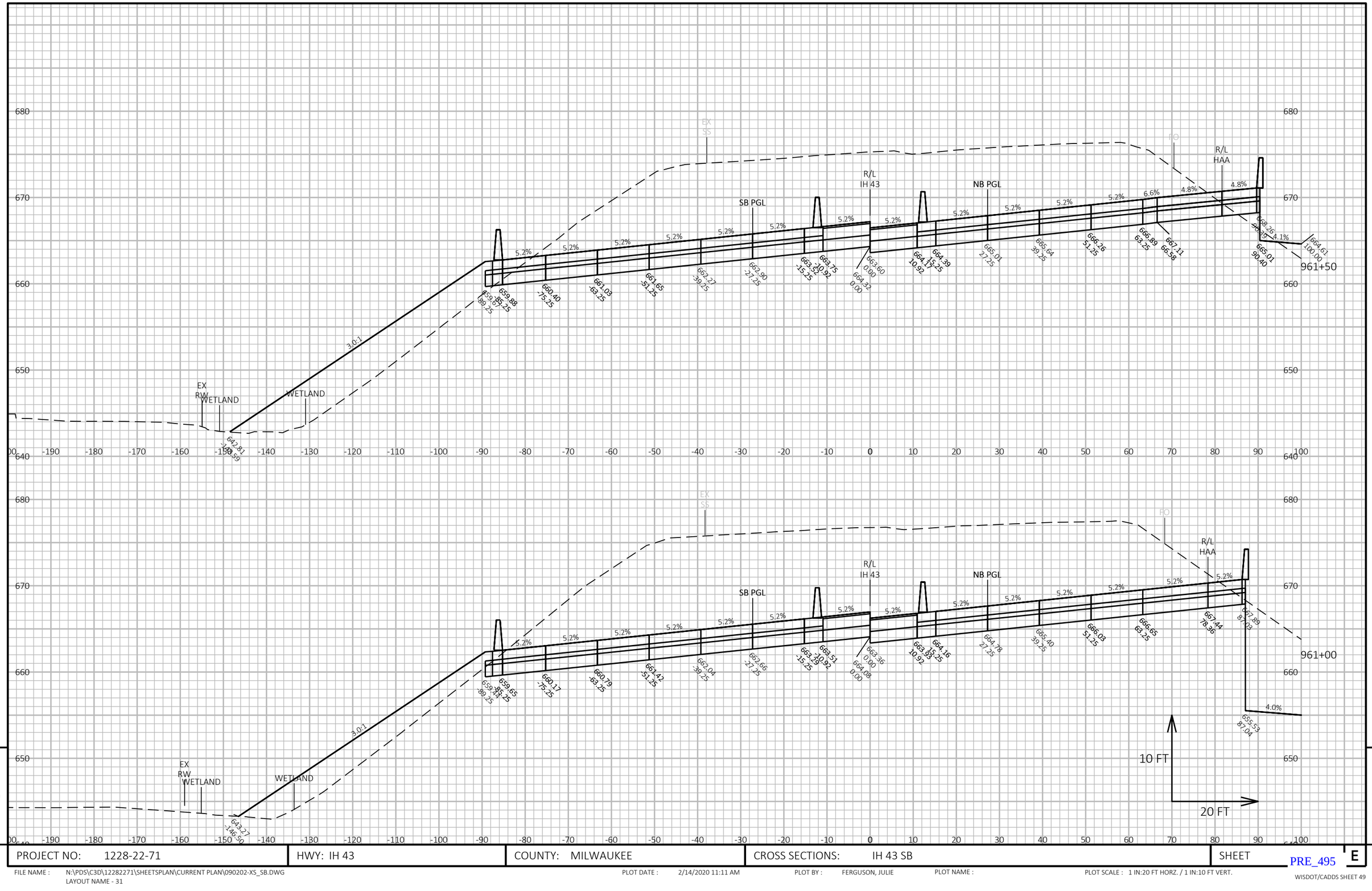
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 30

PLOT DATE : 2/14/2020 11:11 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_494

WISDOT/CADDS SHEET 49



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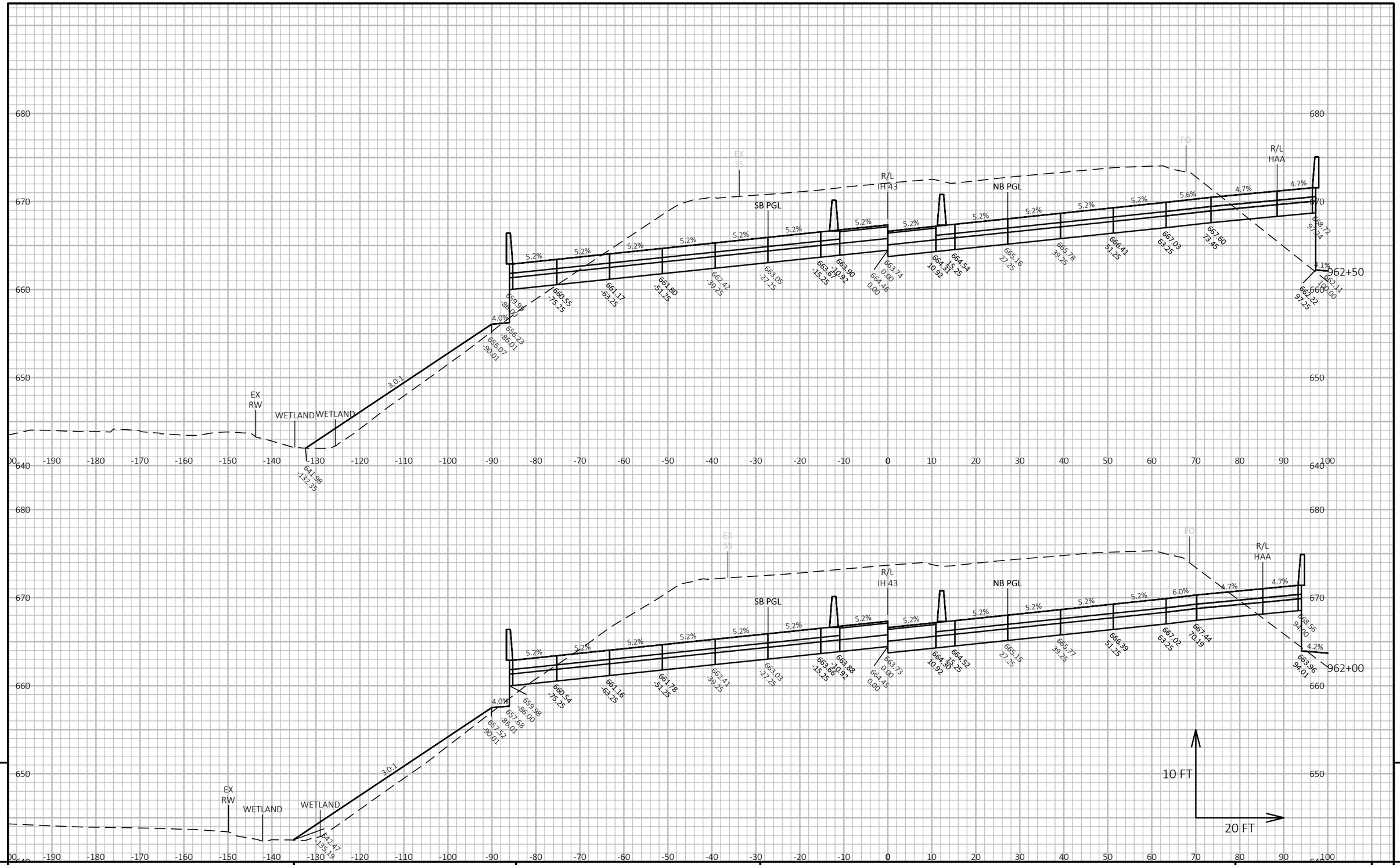
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 31

PLOT DATE : 2/14/2020 11:11 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_495

WISDOT/CADDS SHEET 49



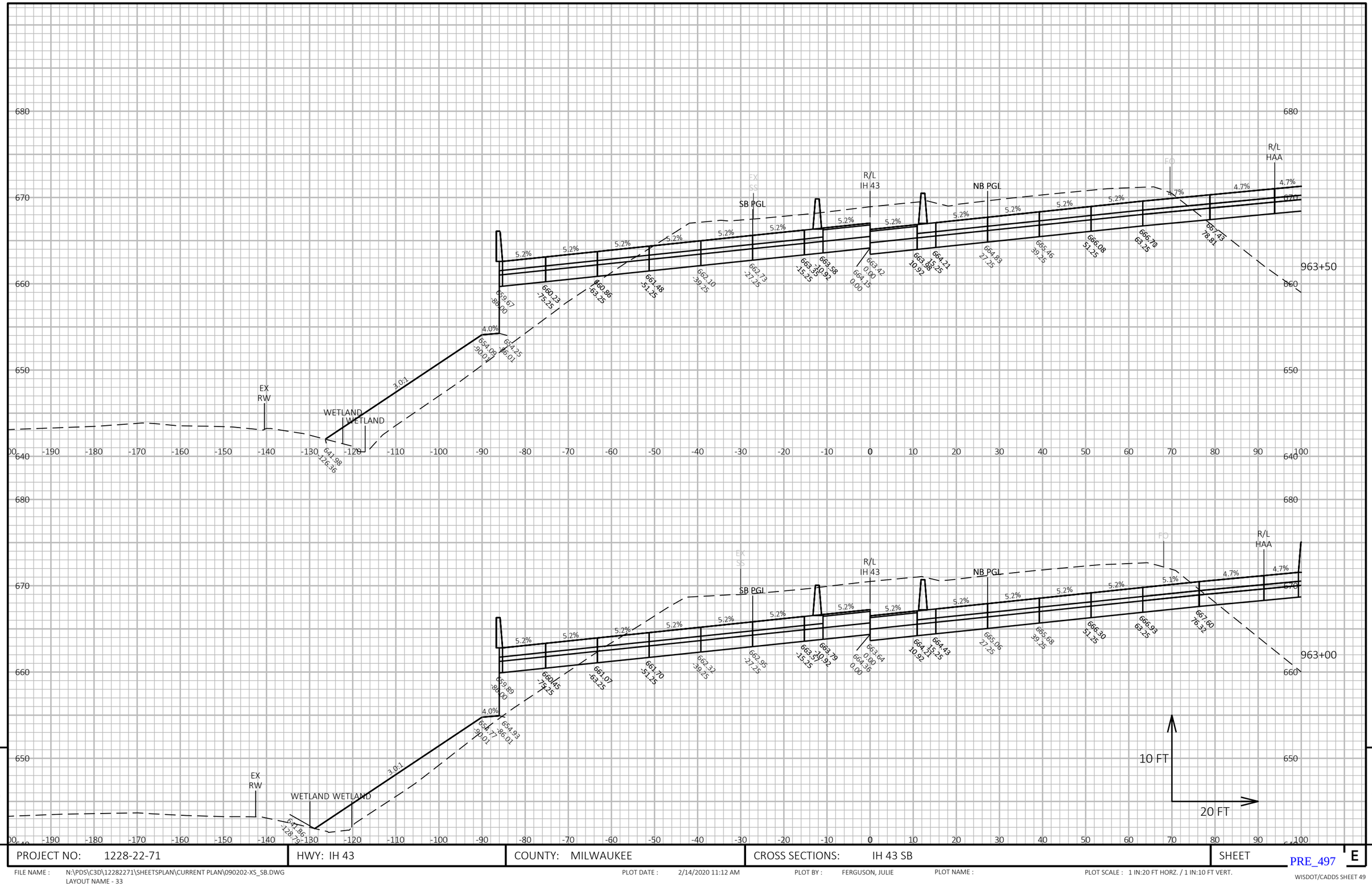
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_496

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 32

PLOT DATE : 2/14/2020 11:11 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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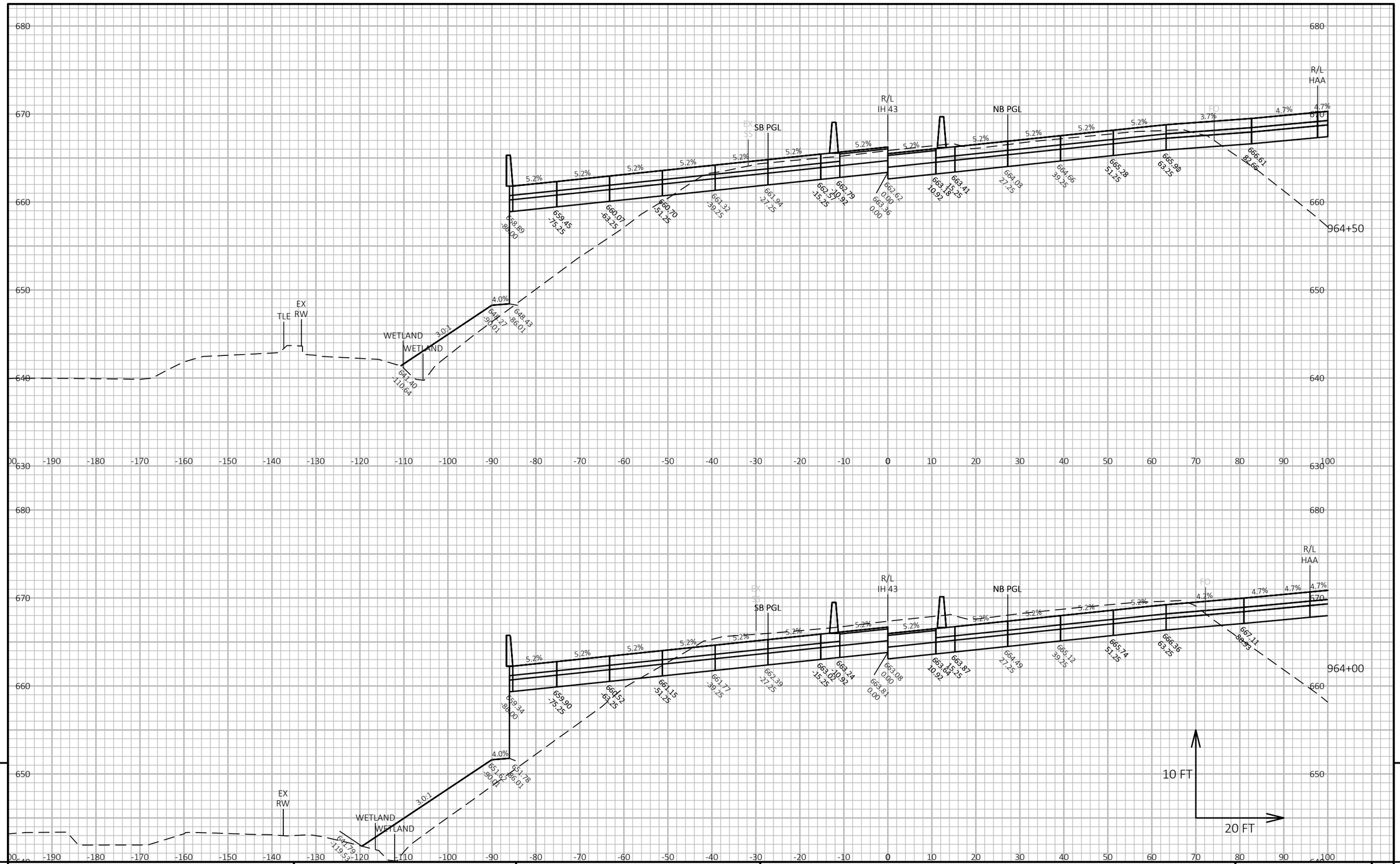
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_497

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 33

PLOT DATE : 2/14/2020 11:12 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_498

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 34

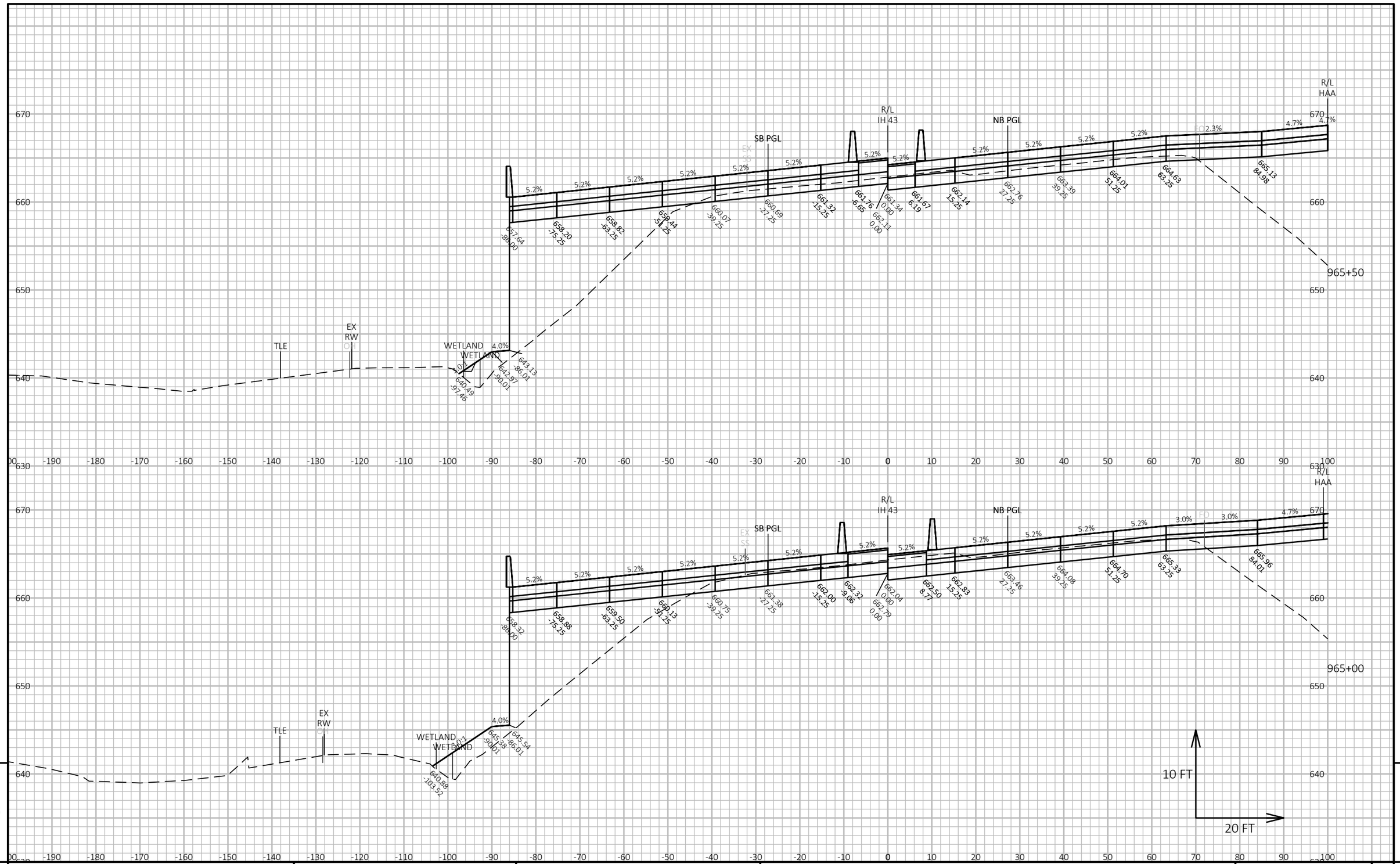
PLOT DATE : 2/14/2020 11:12 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 35

PLOT DATE : 2/14/2020 11:12 AM

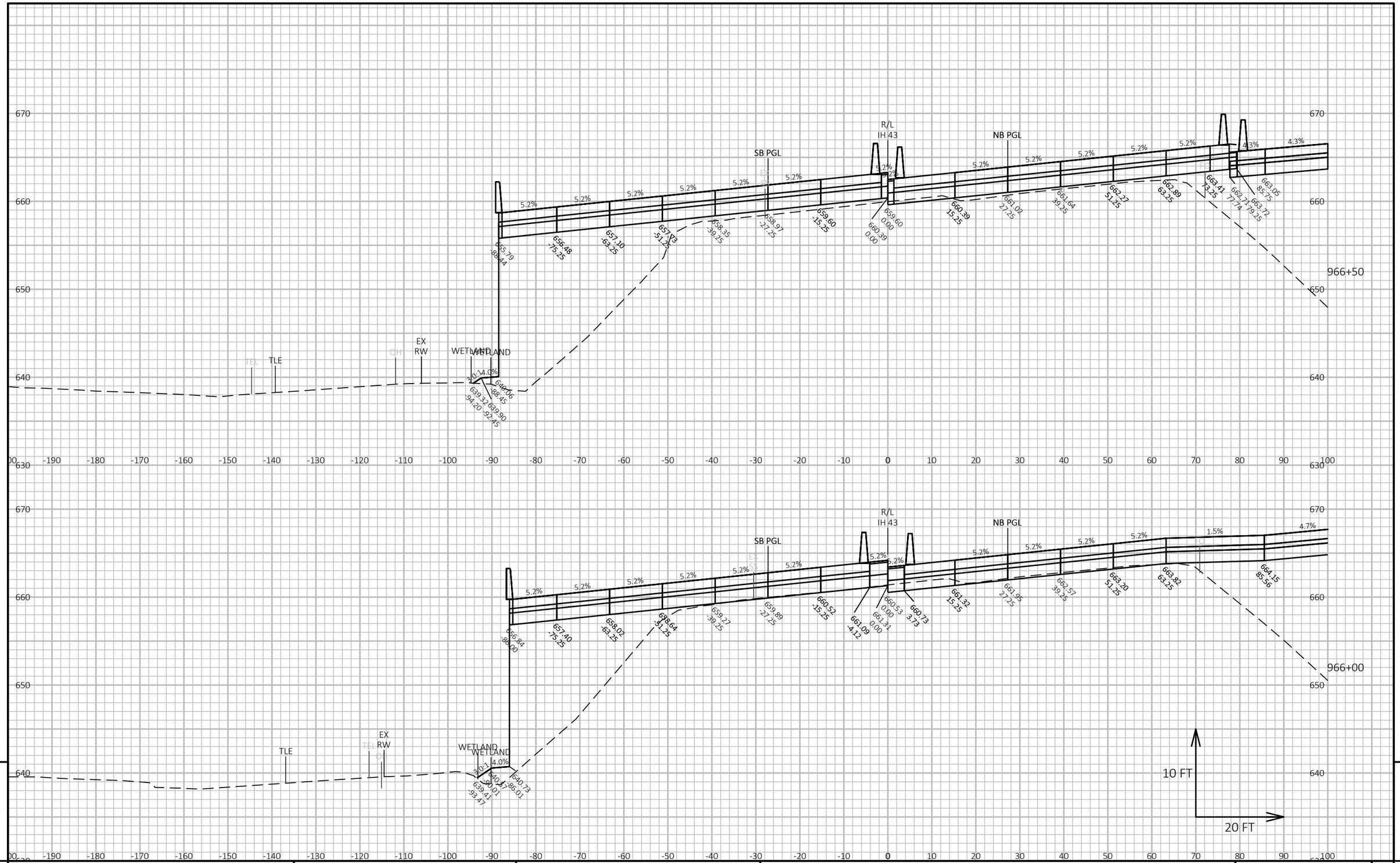
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_499

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 36

PLOT DATE : 2/14/2020 11:12 AM

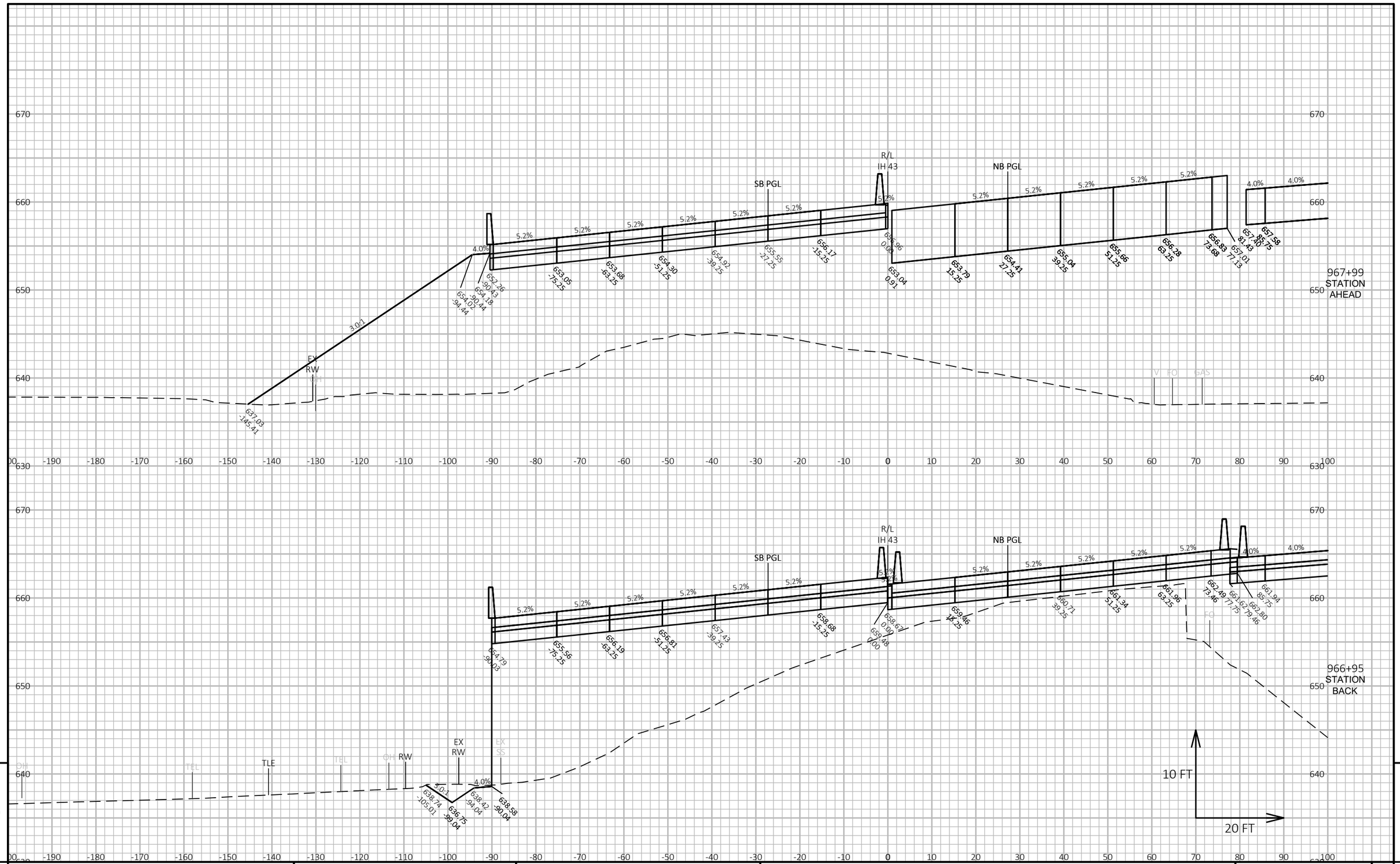
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_500

WISDOT/CADDS SHEET 49



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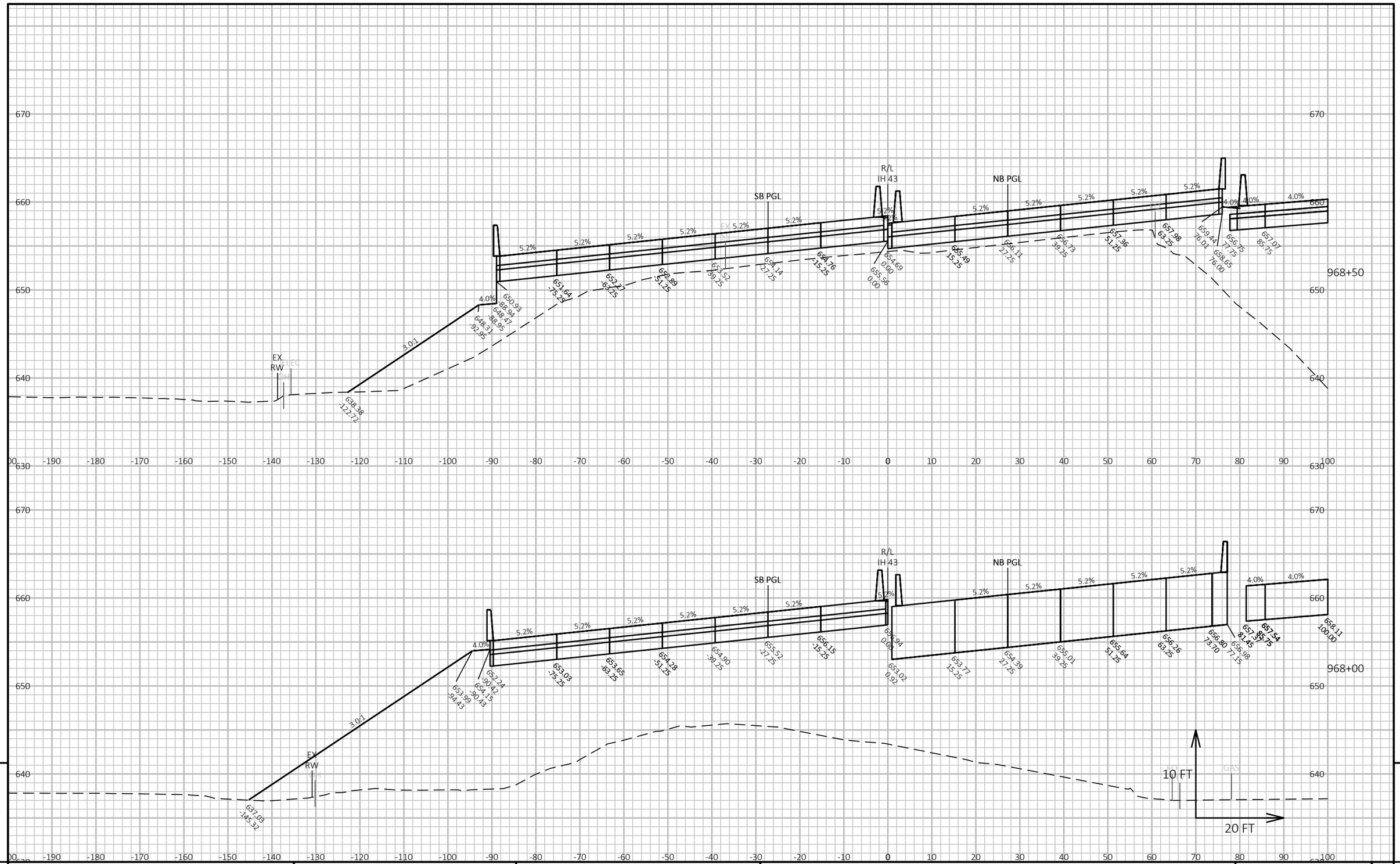
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_501

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 37

PLOT DATE : 2/14/2020 11:12 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



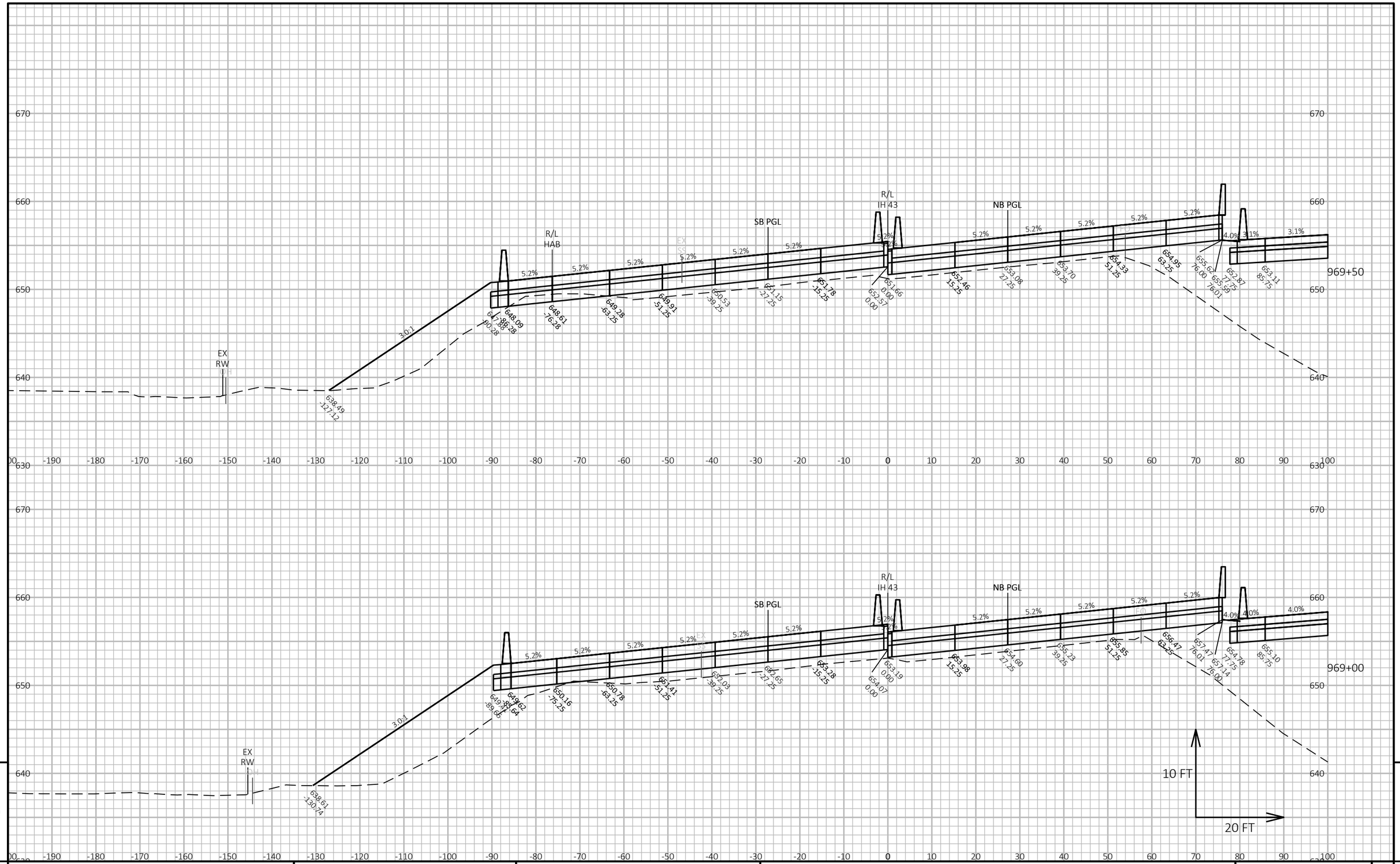
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 38

PLOT DATE : 2/14/2020 11:12 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_502

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 39

PLOT DATE : 2/14/2020 11:13 AM

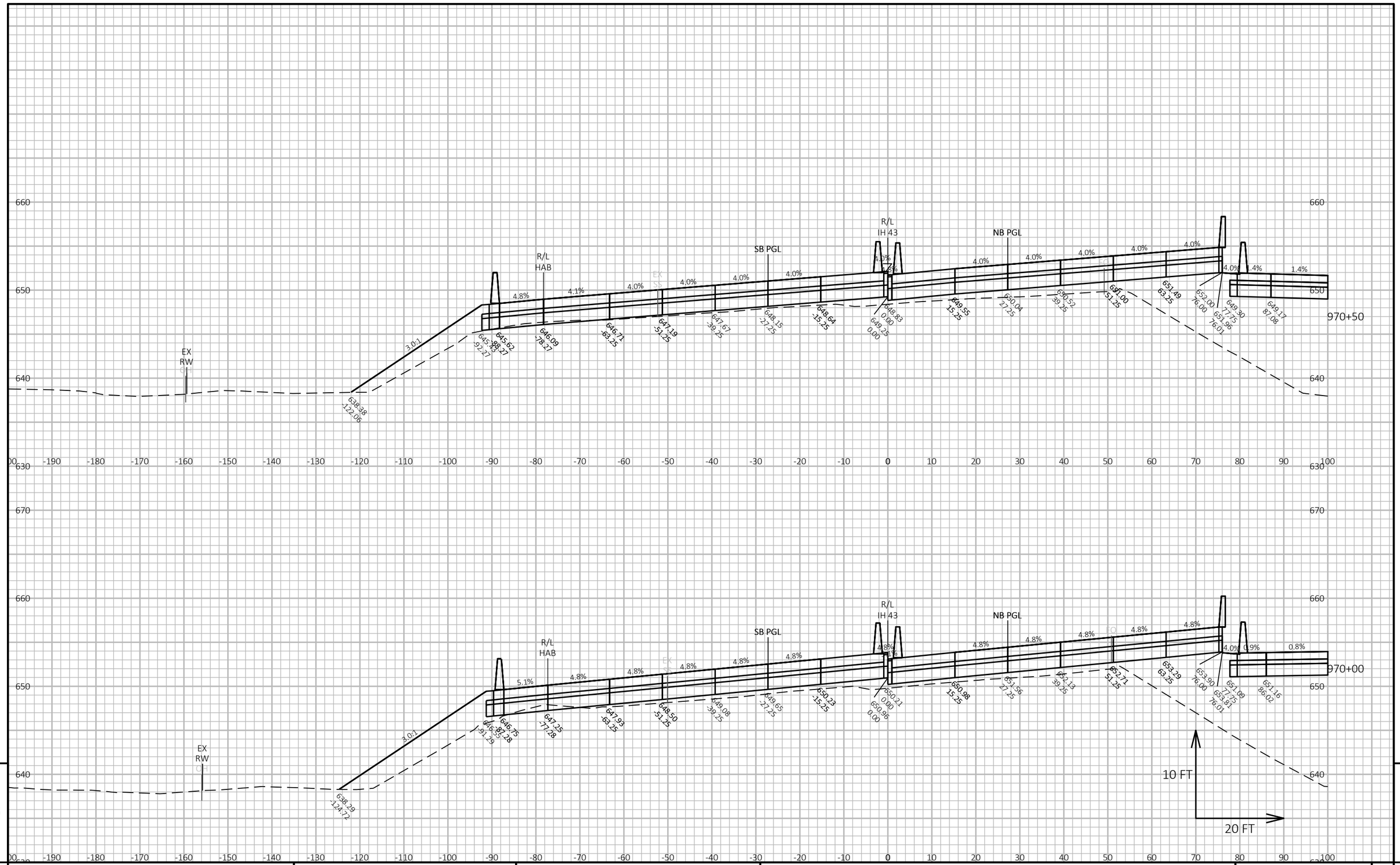
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_503

WISDOT/CADDS SHEET 49

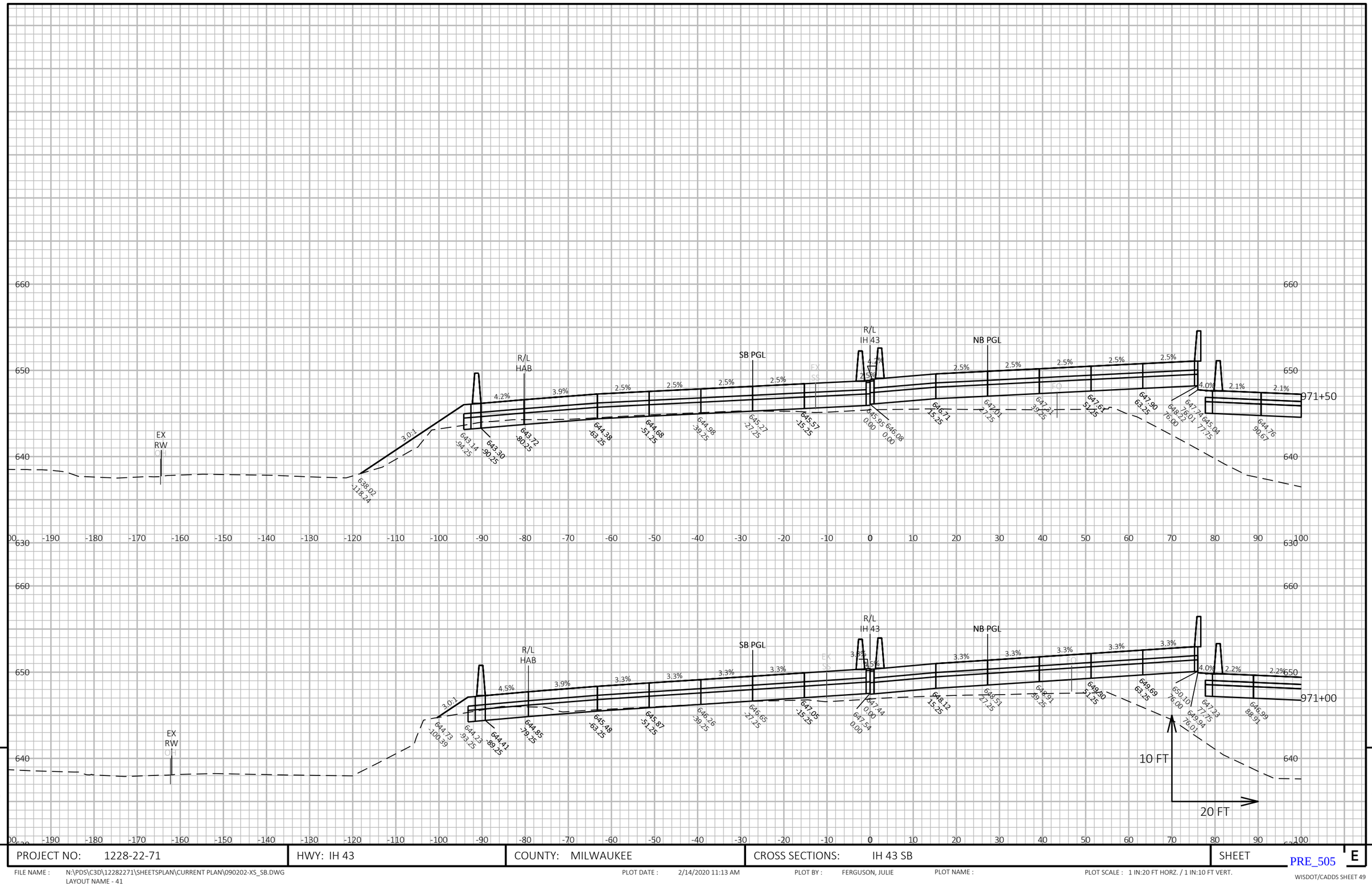


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_504

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 40

PLOT DATE : 2/14/2020 11:13 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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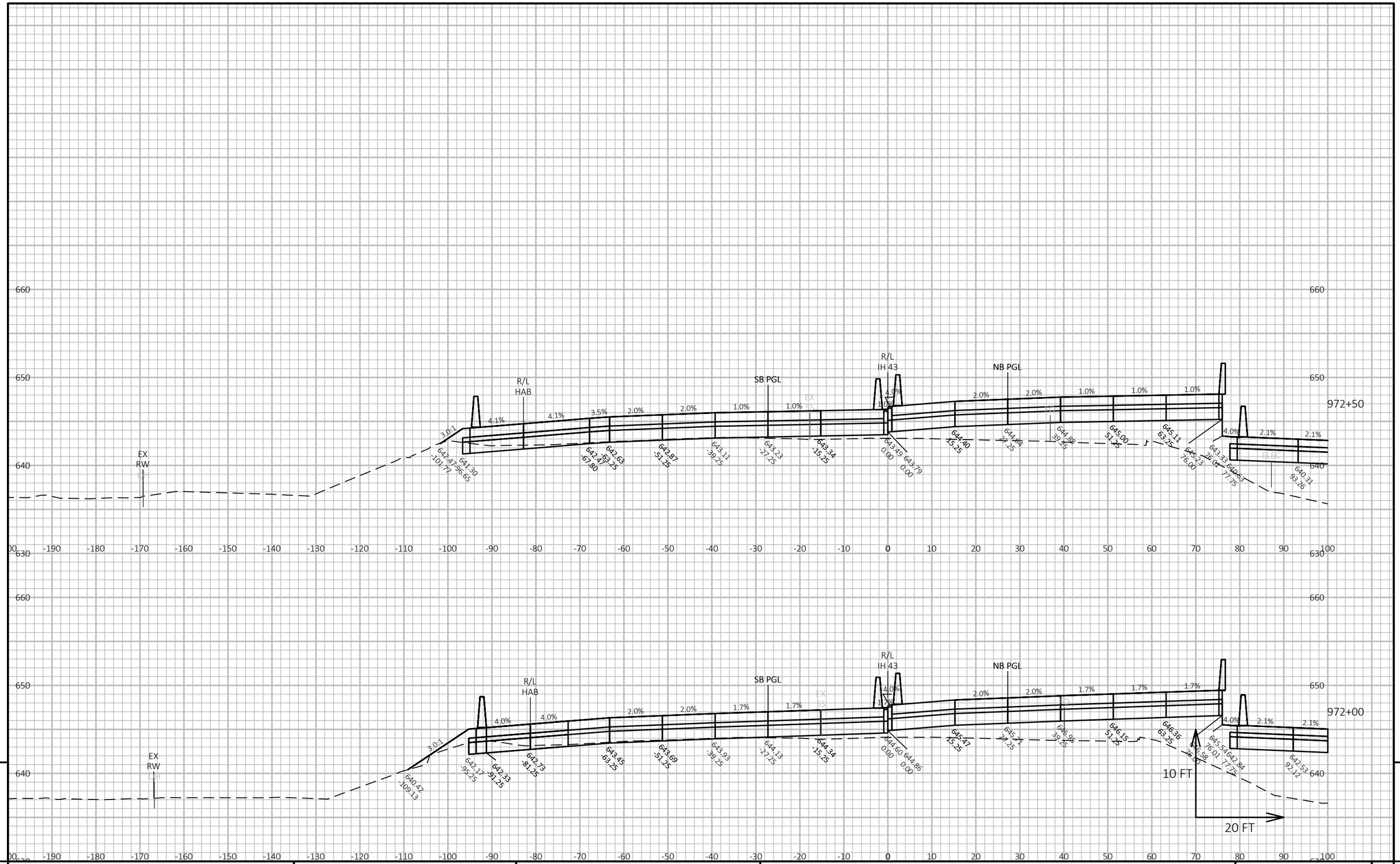
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_505

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 41

PLOT DATE : 2/14/2020 11:13 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



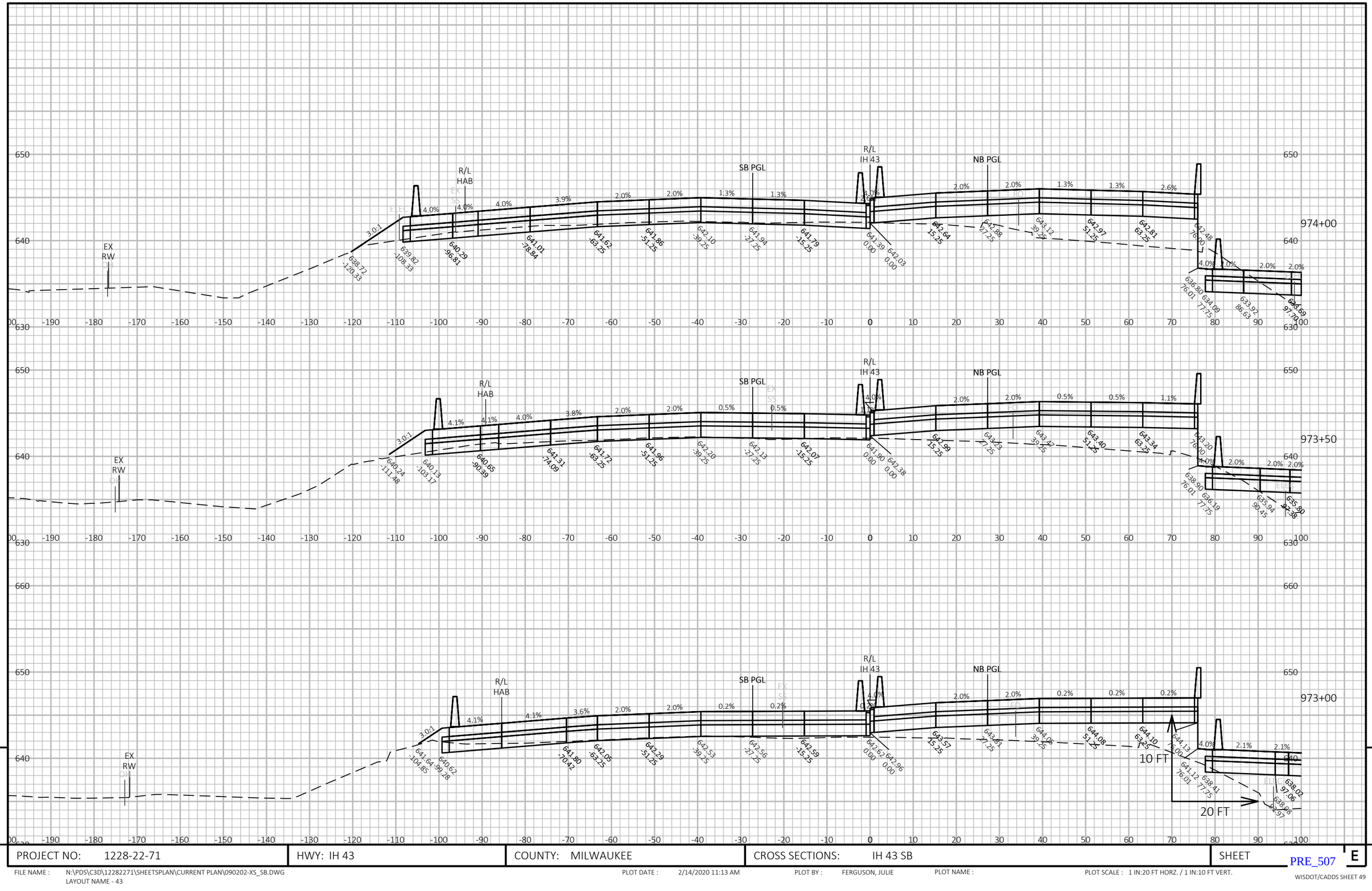
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_506

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 42

PLOT DATE : 2/14/2020 11:13 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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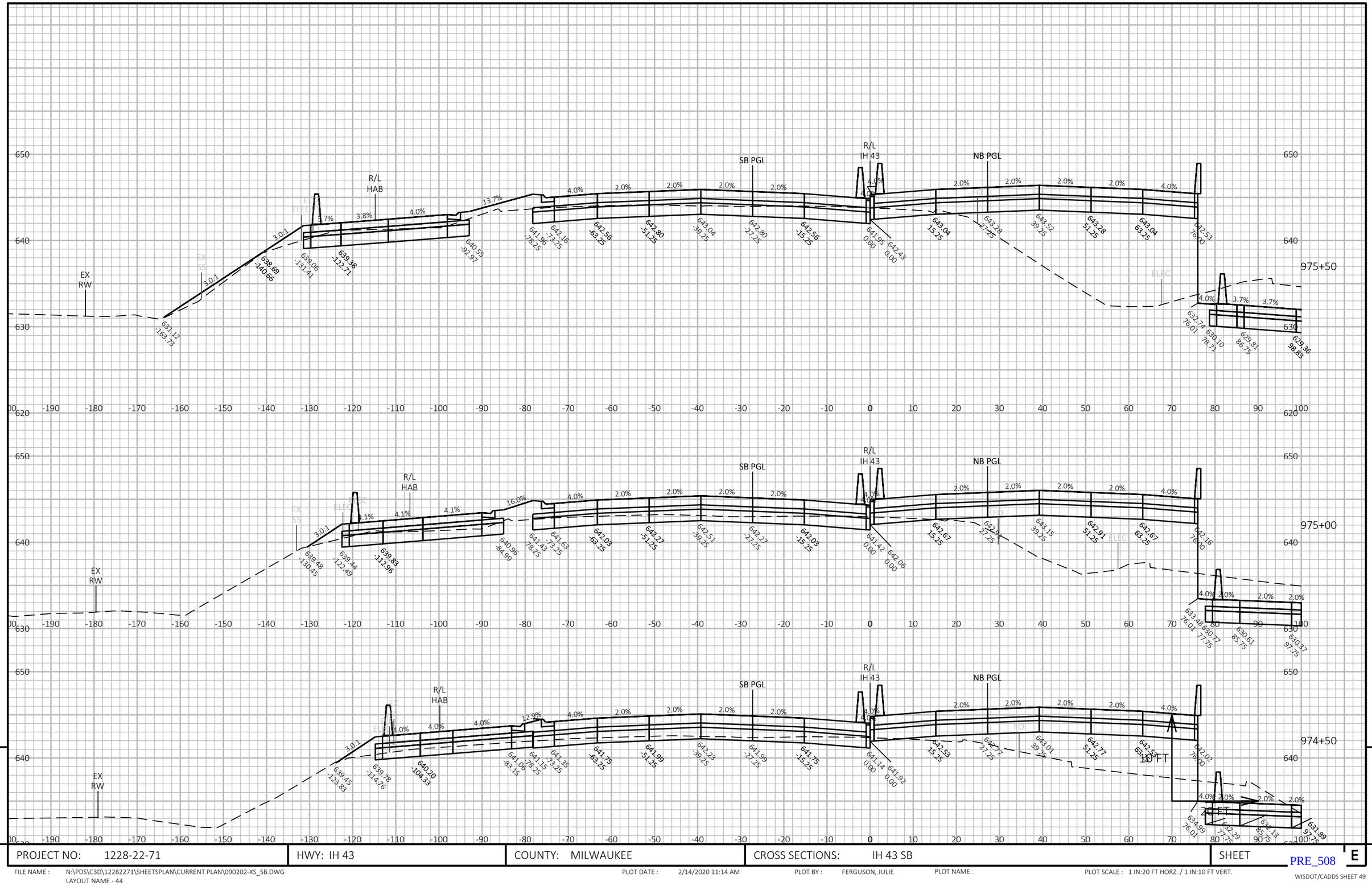
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 43

PLOT DATE : 2/14/2020 11:13 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_507

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_508

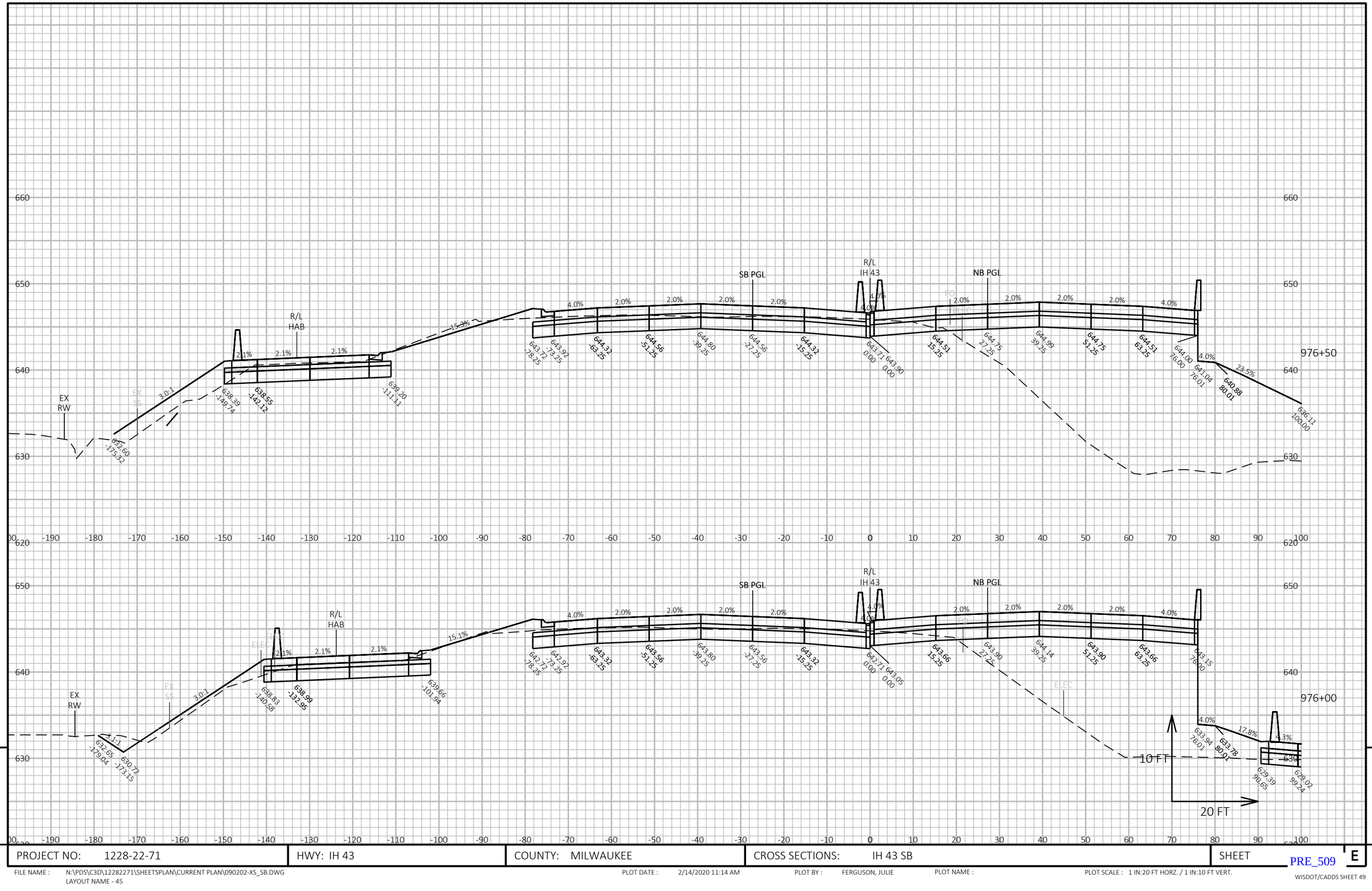
FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 44

PLOT DATE : 2/14/2020 11:14 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



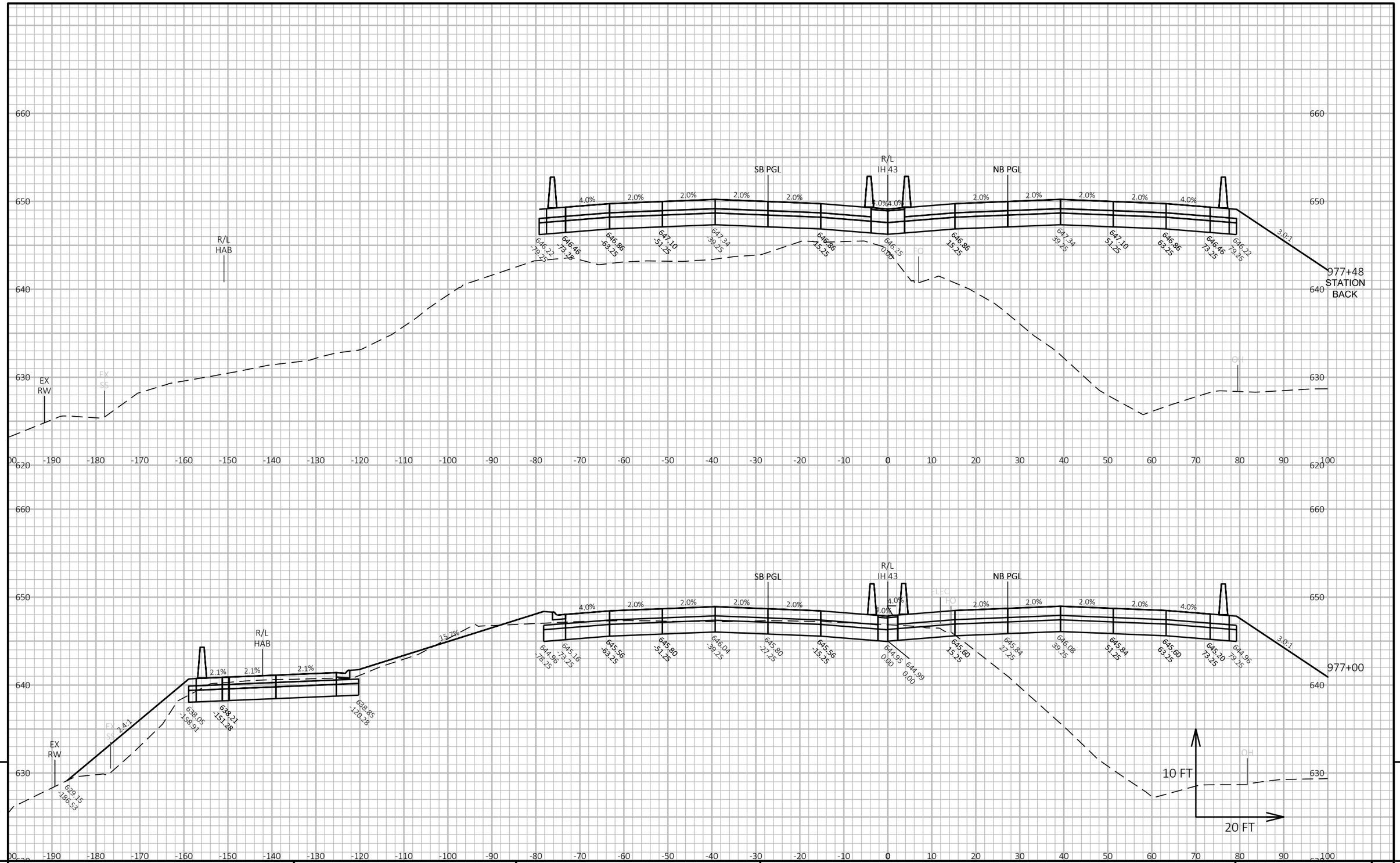
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_509

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 45

PLOT DATE : 2/14/2020 11:14 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 46

PLOT DATE : 2/14/2020 11:14 AM

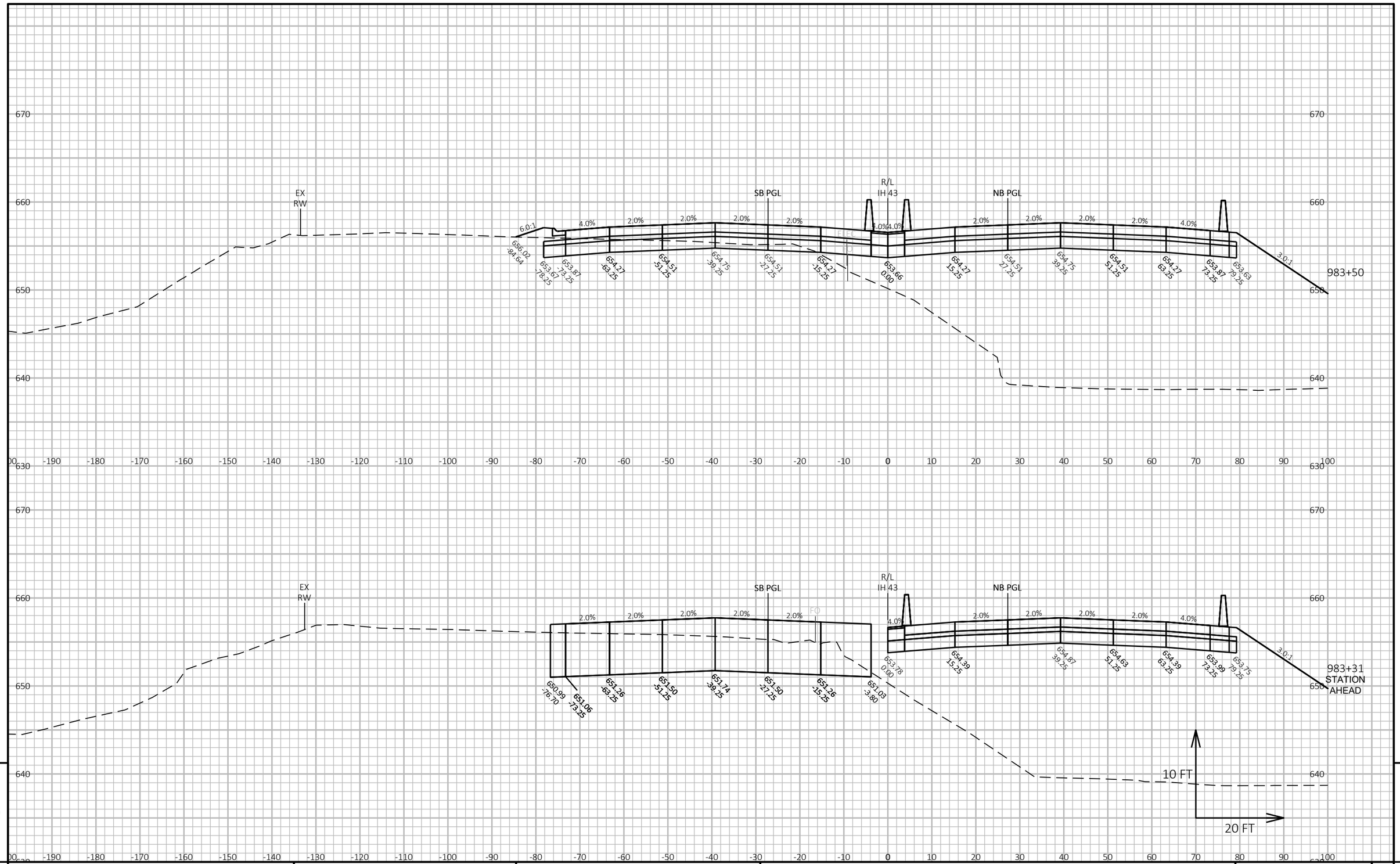
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_510

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_511

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 47

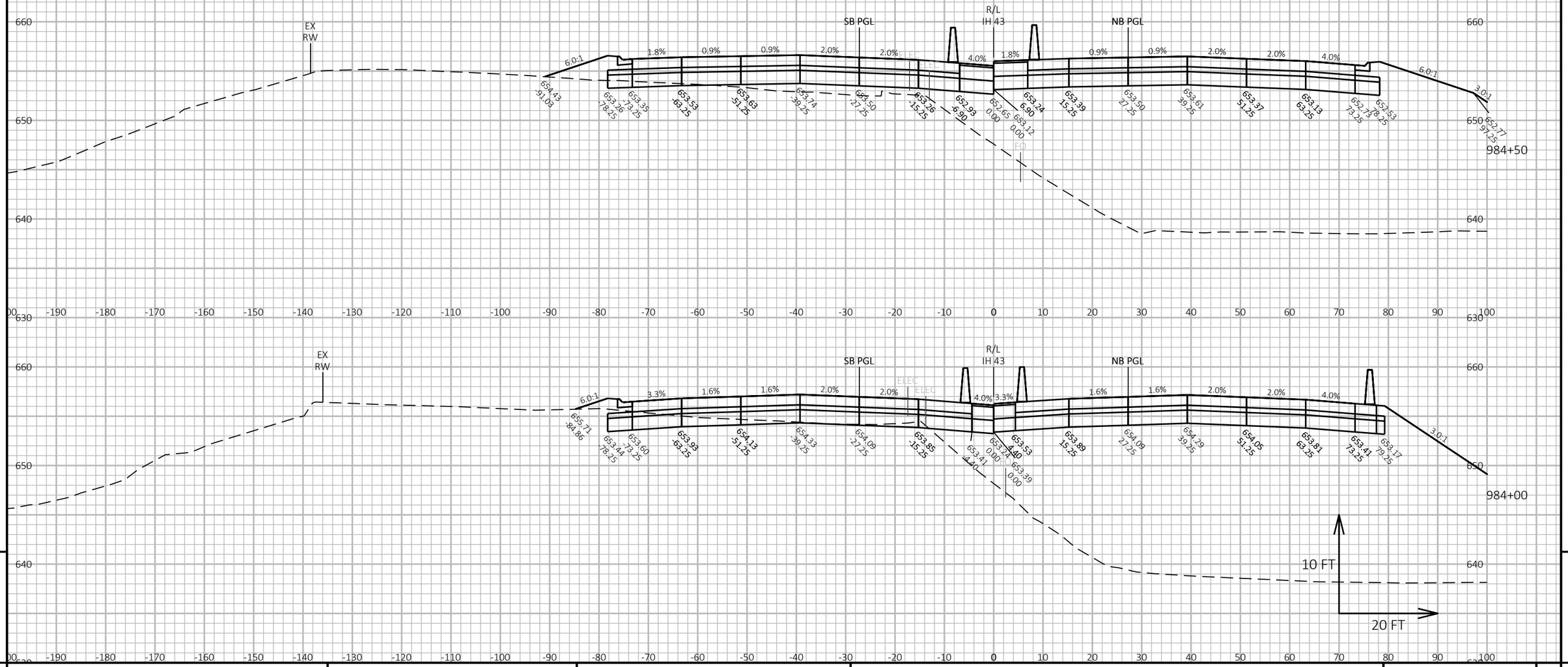
PLOT DATE : 2/14/2020 11:14 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



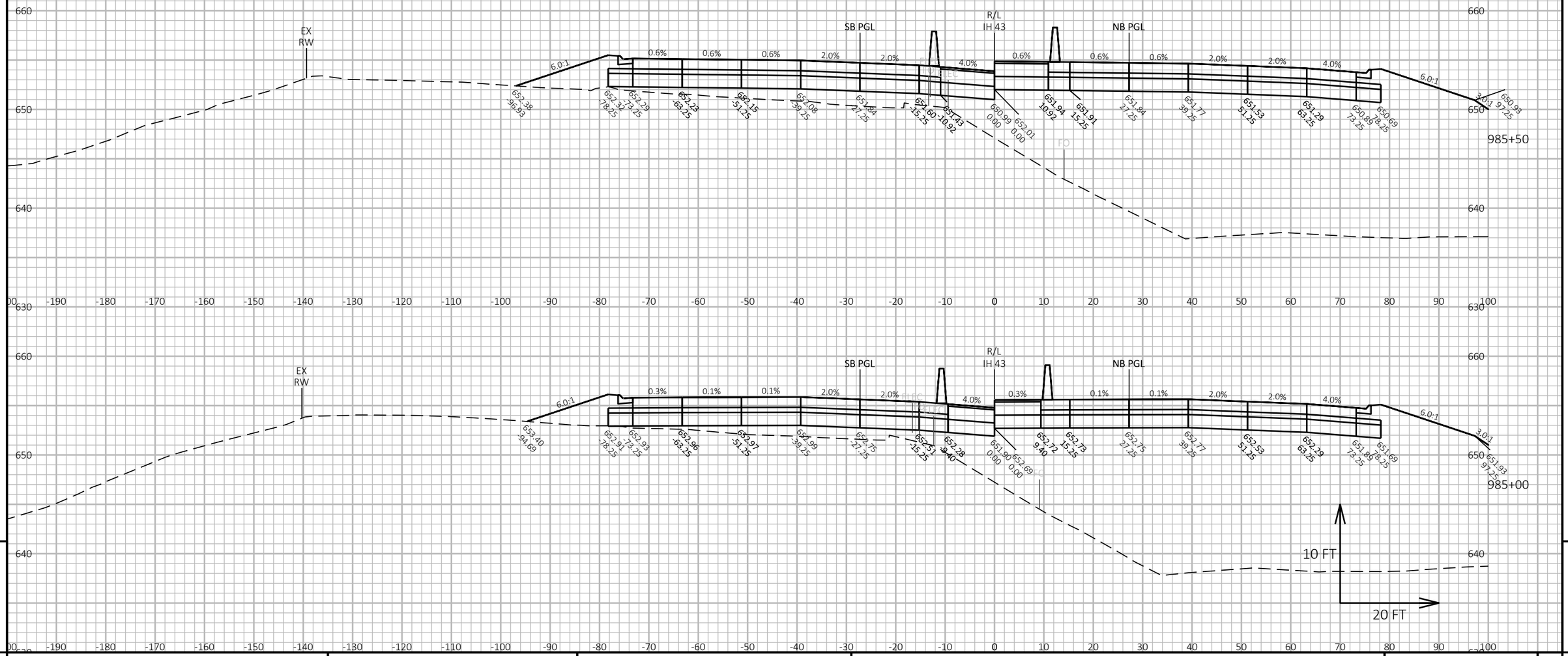
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 48

PLOT DATE : 2/14/2020 11:14 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_512

WISDOT/CADDS SHEET 49



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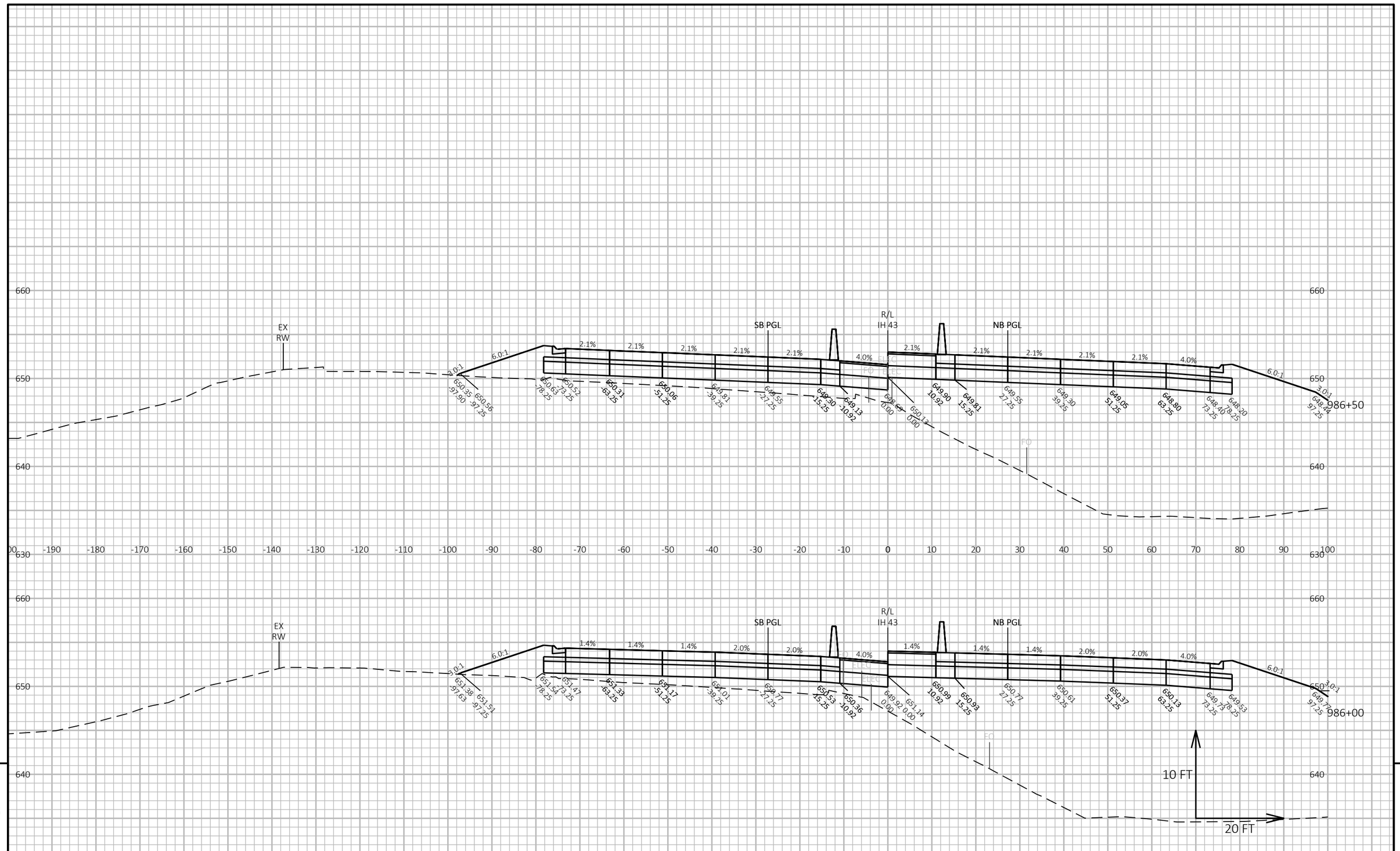
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_513

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 49

PLOT DATE : 2/14/2020 11:14 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 50

PLOT DATE : 2/14/2020 11:15 AM

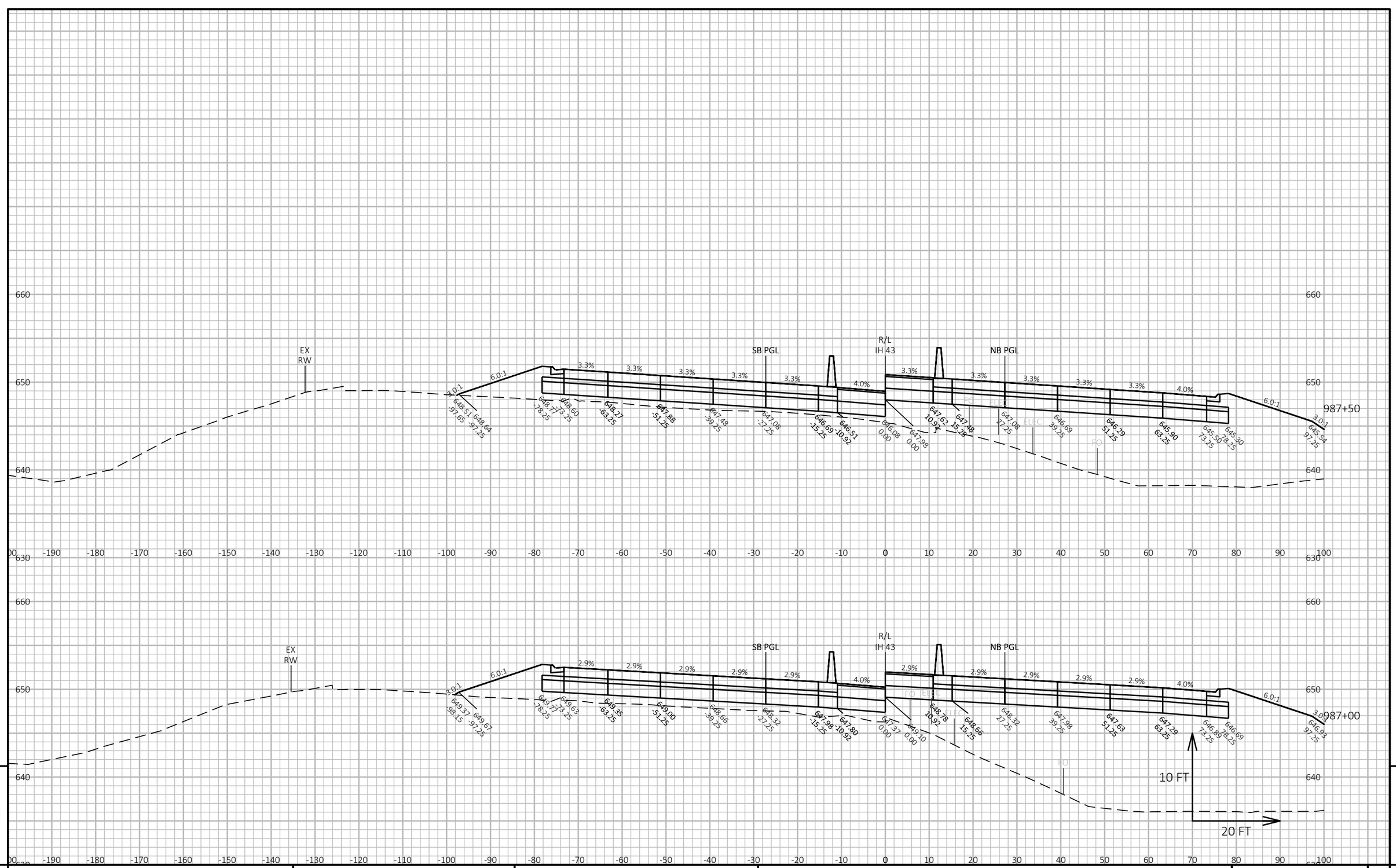
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_514

WISDOT/CADDS SHEET 49



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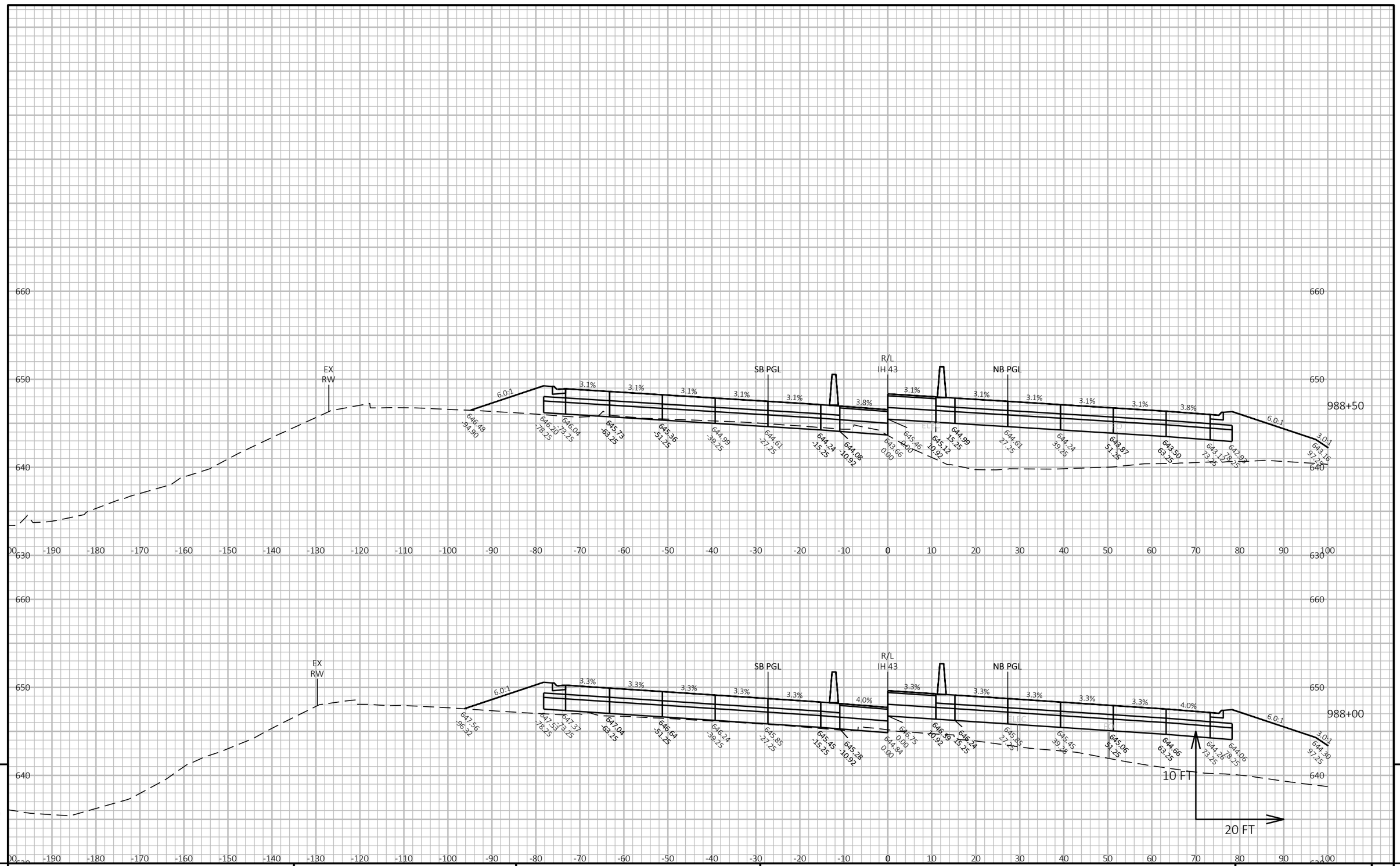
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_515

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 51

PLOT DATE : 2/14/2020 11:15 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



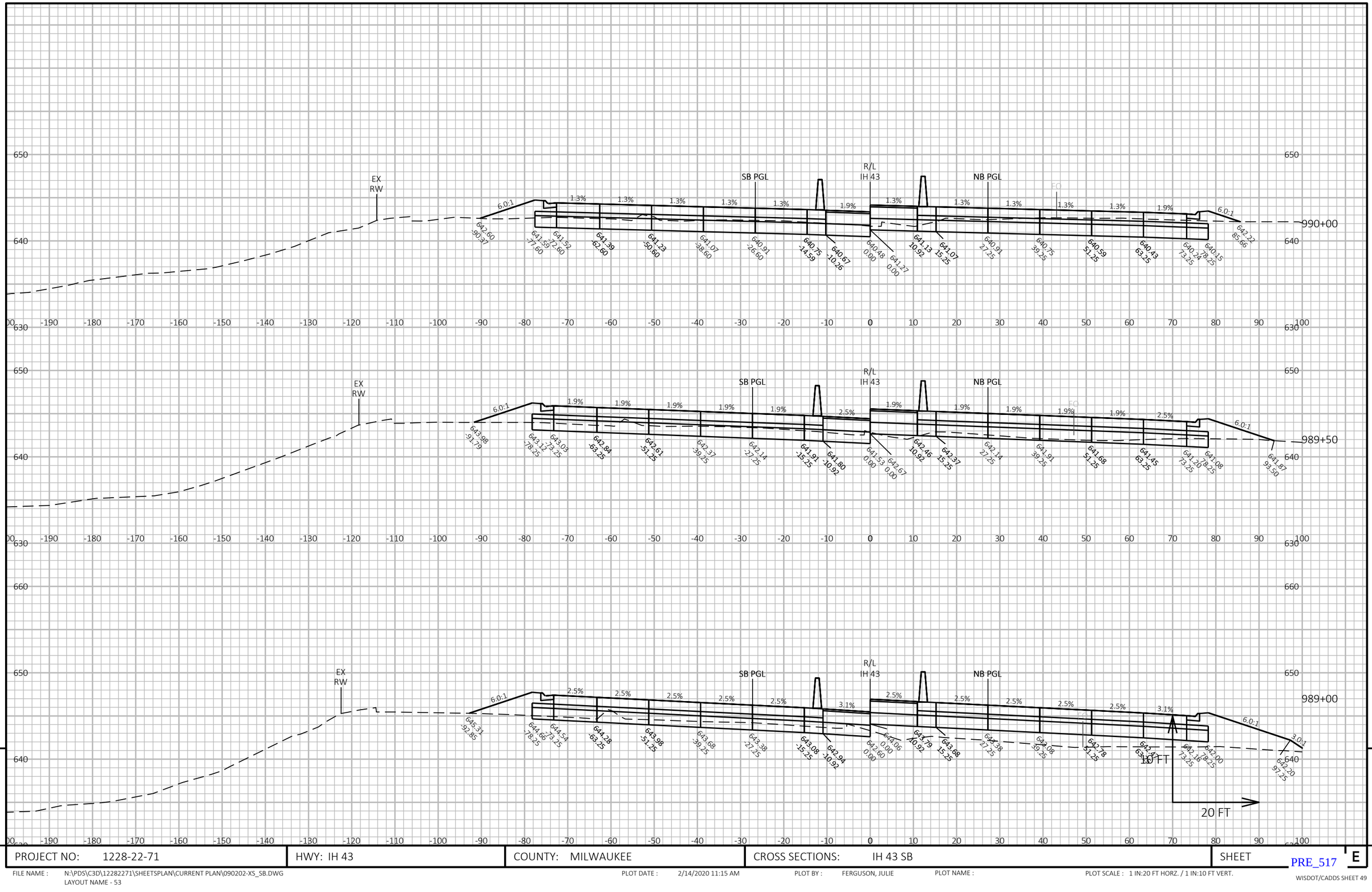
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 52

PLOT DATE : 2/14/2020 11:15 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_516

WISDOT/CADDS SHEET 49



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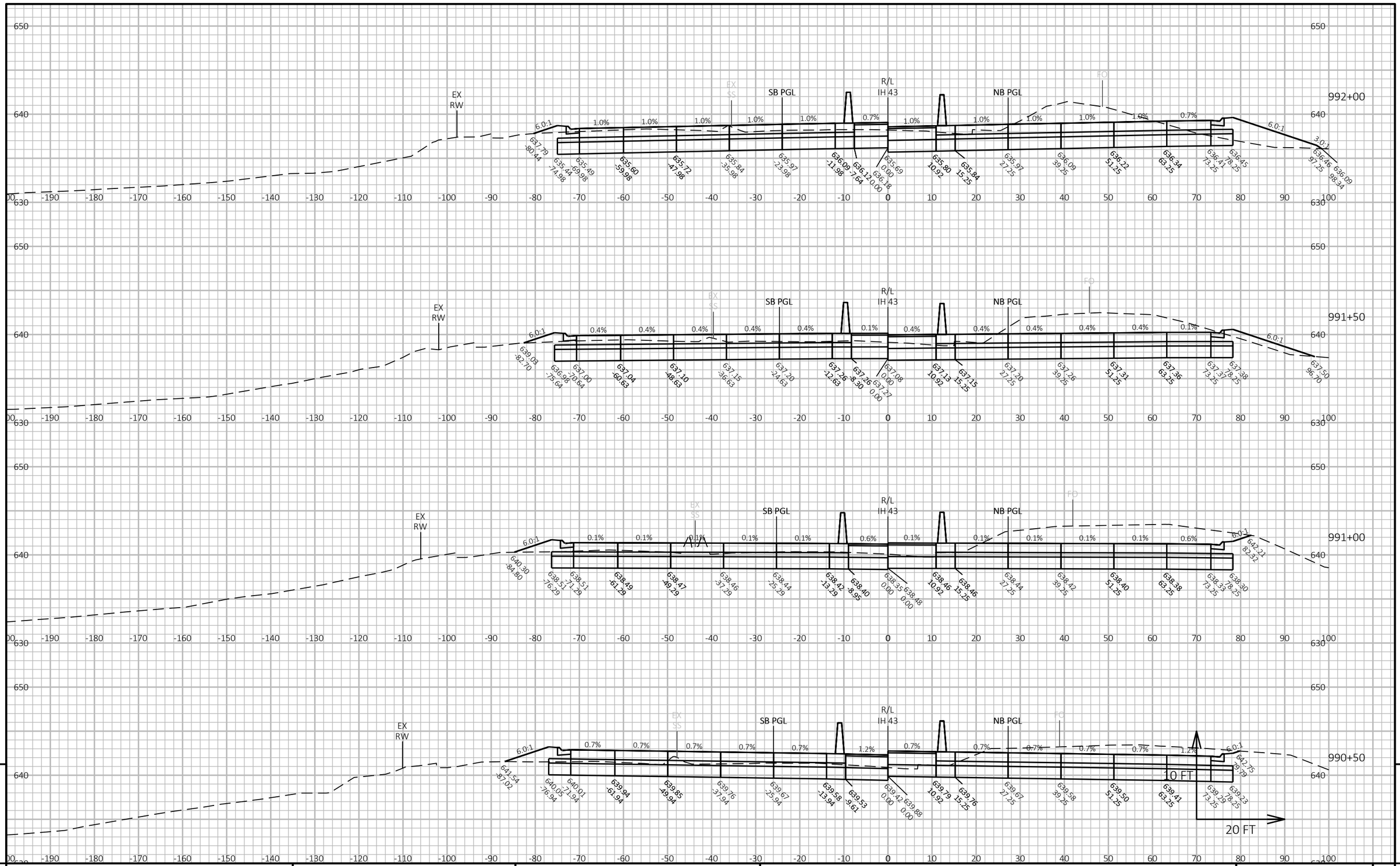
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_517

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 53

PLOT DATE : 2/14/2020 11:15 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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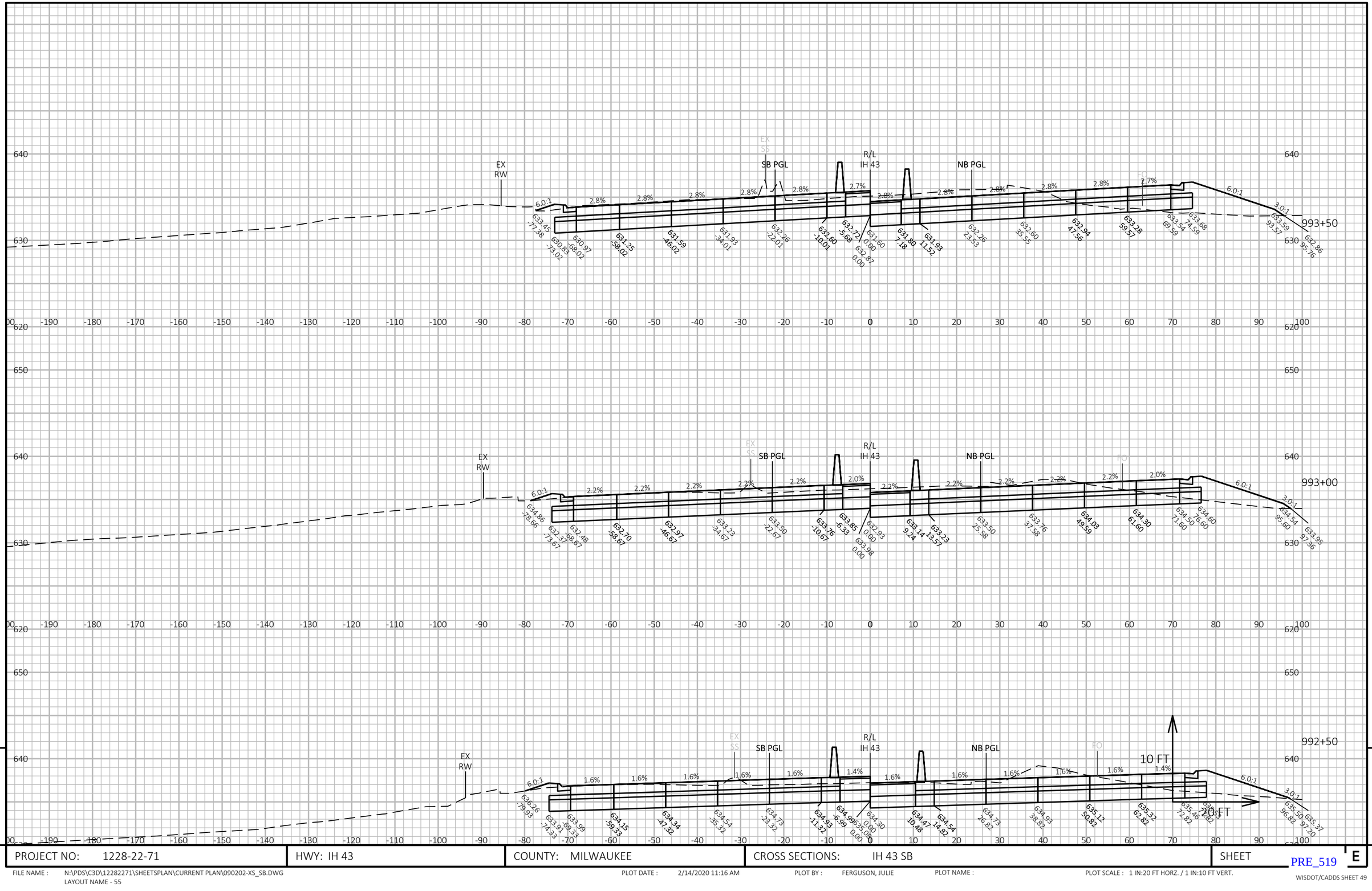
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_518

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 54

PLOT DATE : 2/14/2020 11:15 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_519

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 55

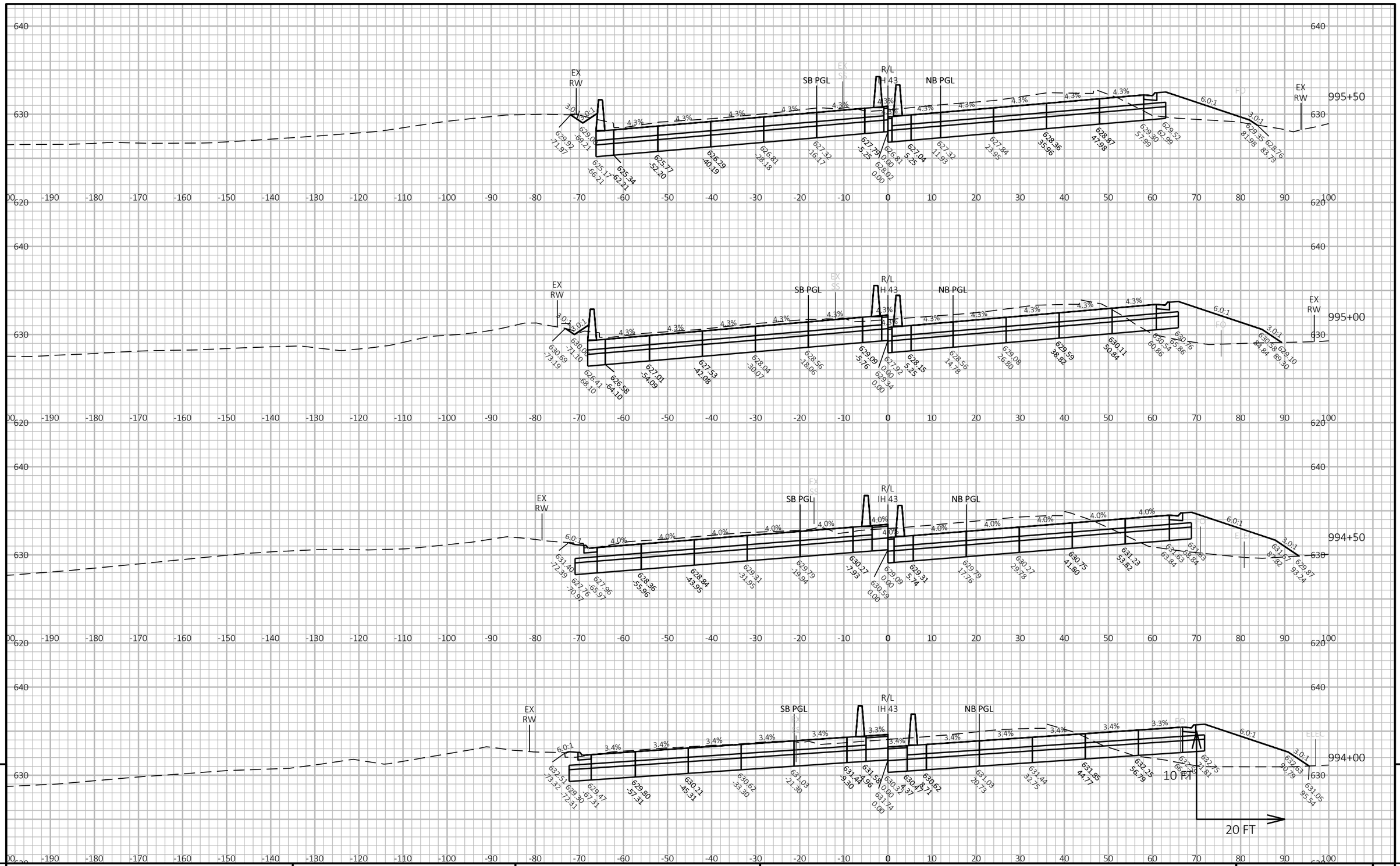
PLOT DATE : 2/14/2020 11:16 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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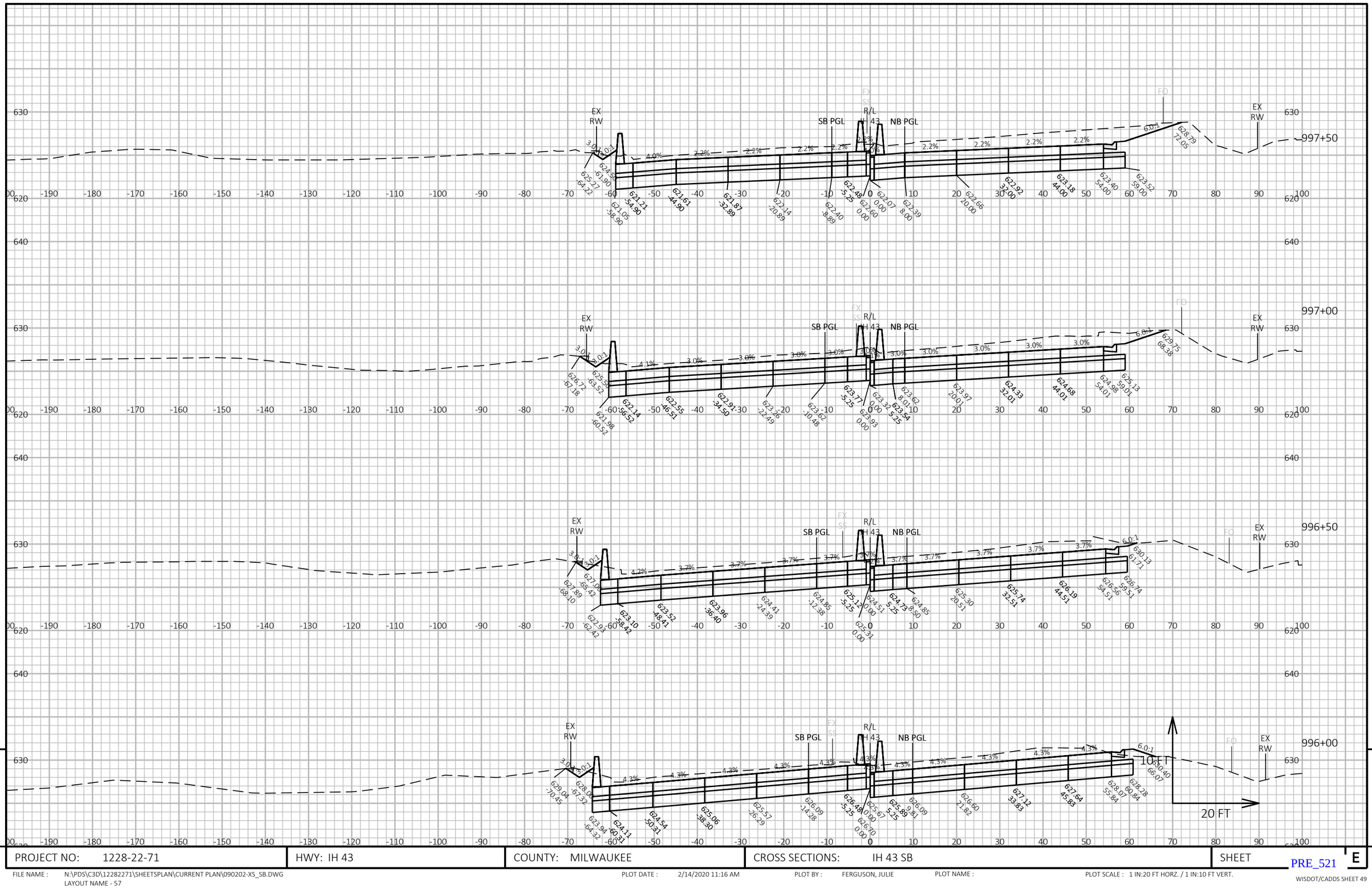
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_520

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 56

PLOT DATE : 2/14/2020 11:16 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282771\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 57

PLOT DATE : 2/14/2020 11:16 AM

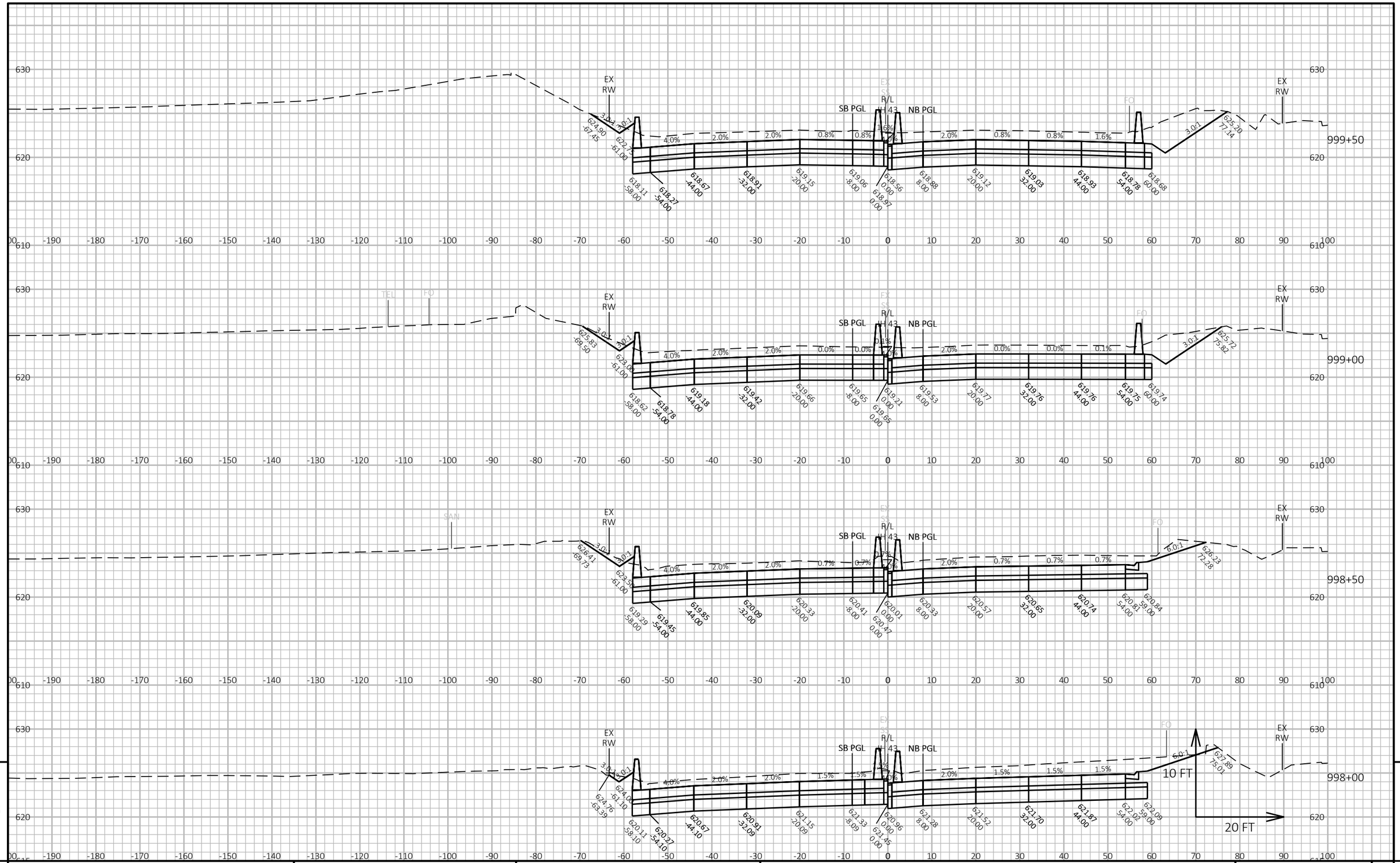
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_521

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_522

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 58

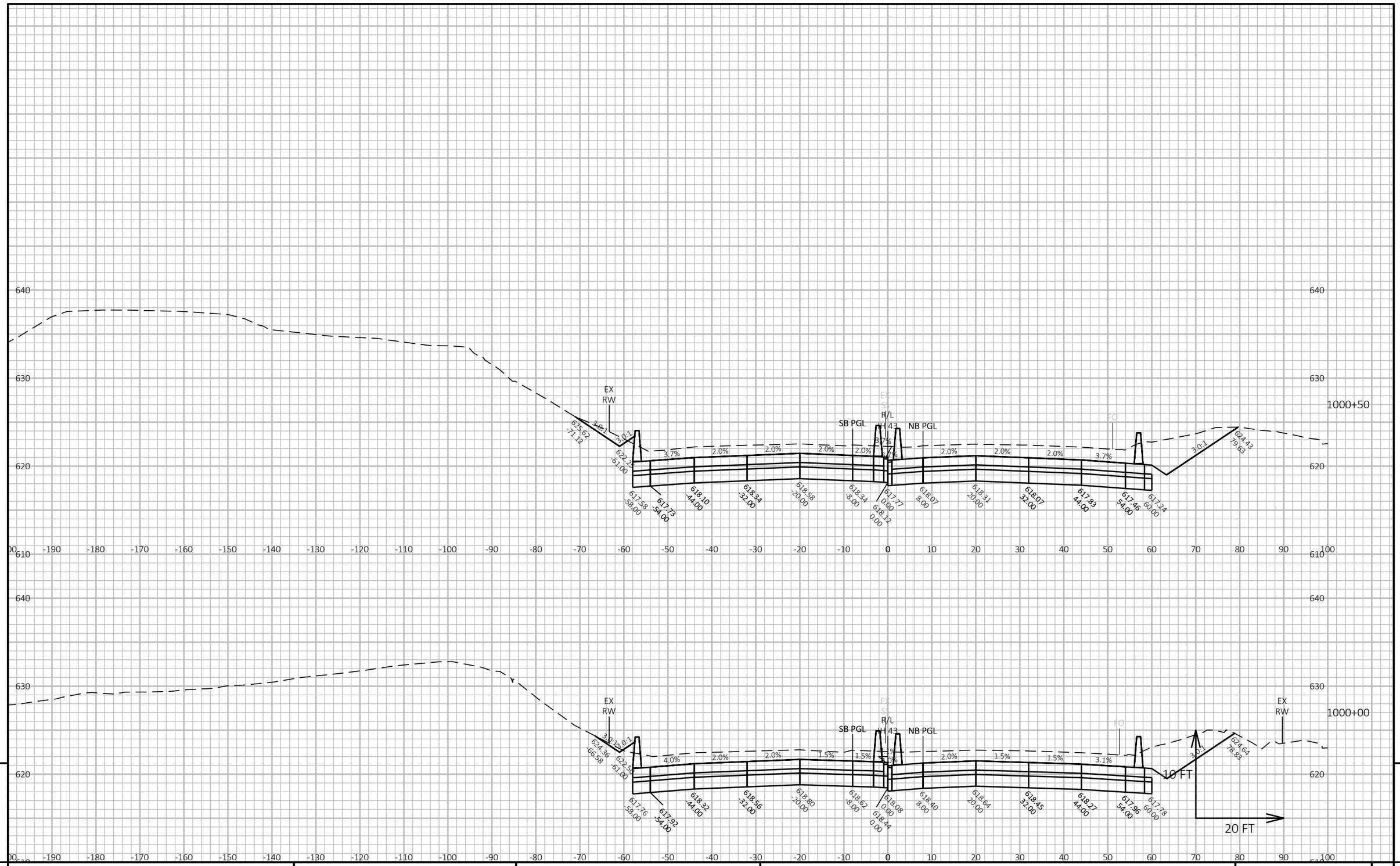
PLOT DATE : 2/14/2020 11:16 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

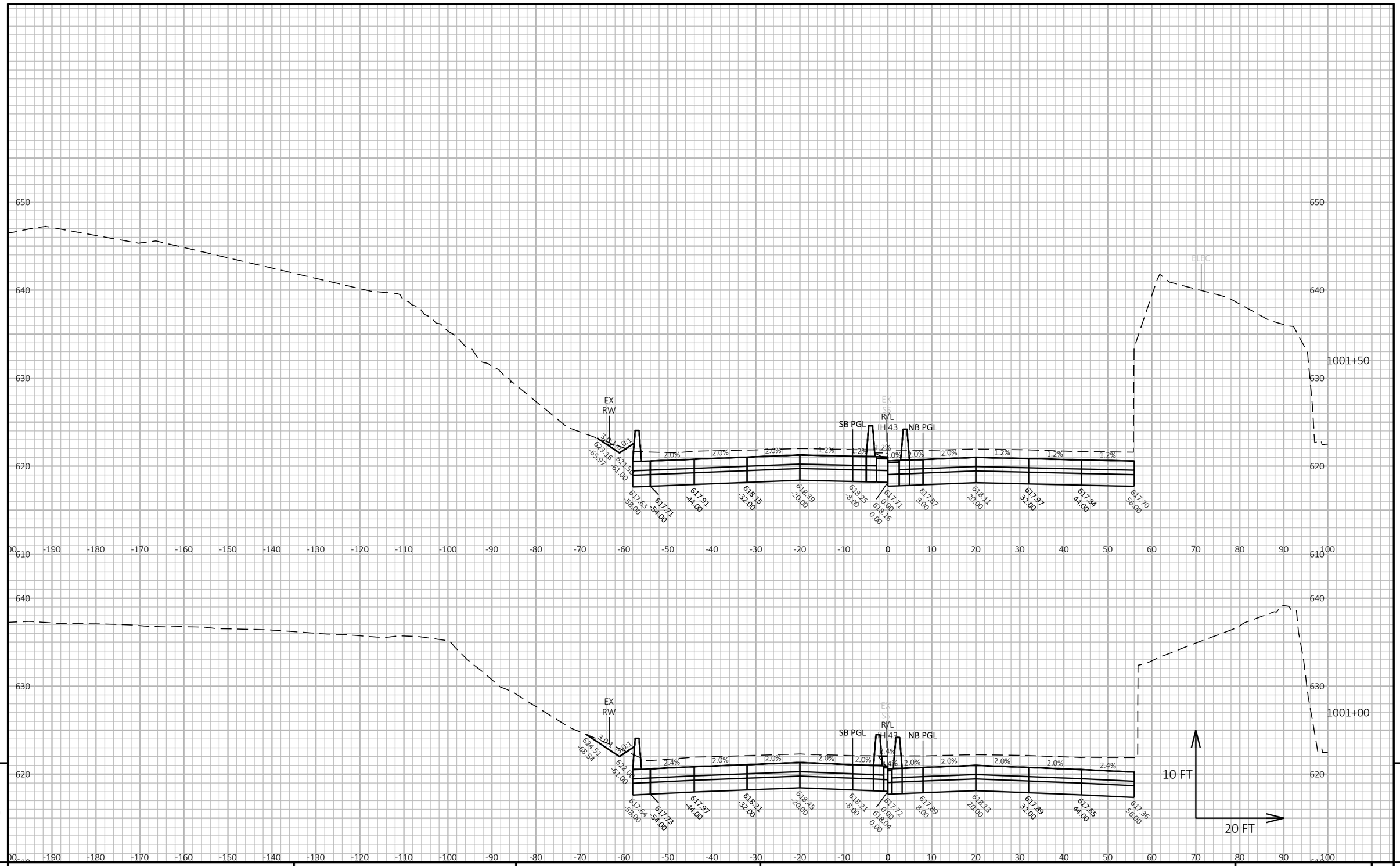
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_523

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 59

PLOT DATE : 2/14/2020 11:16 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

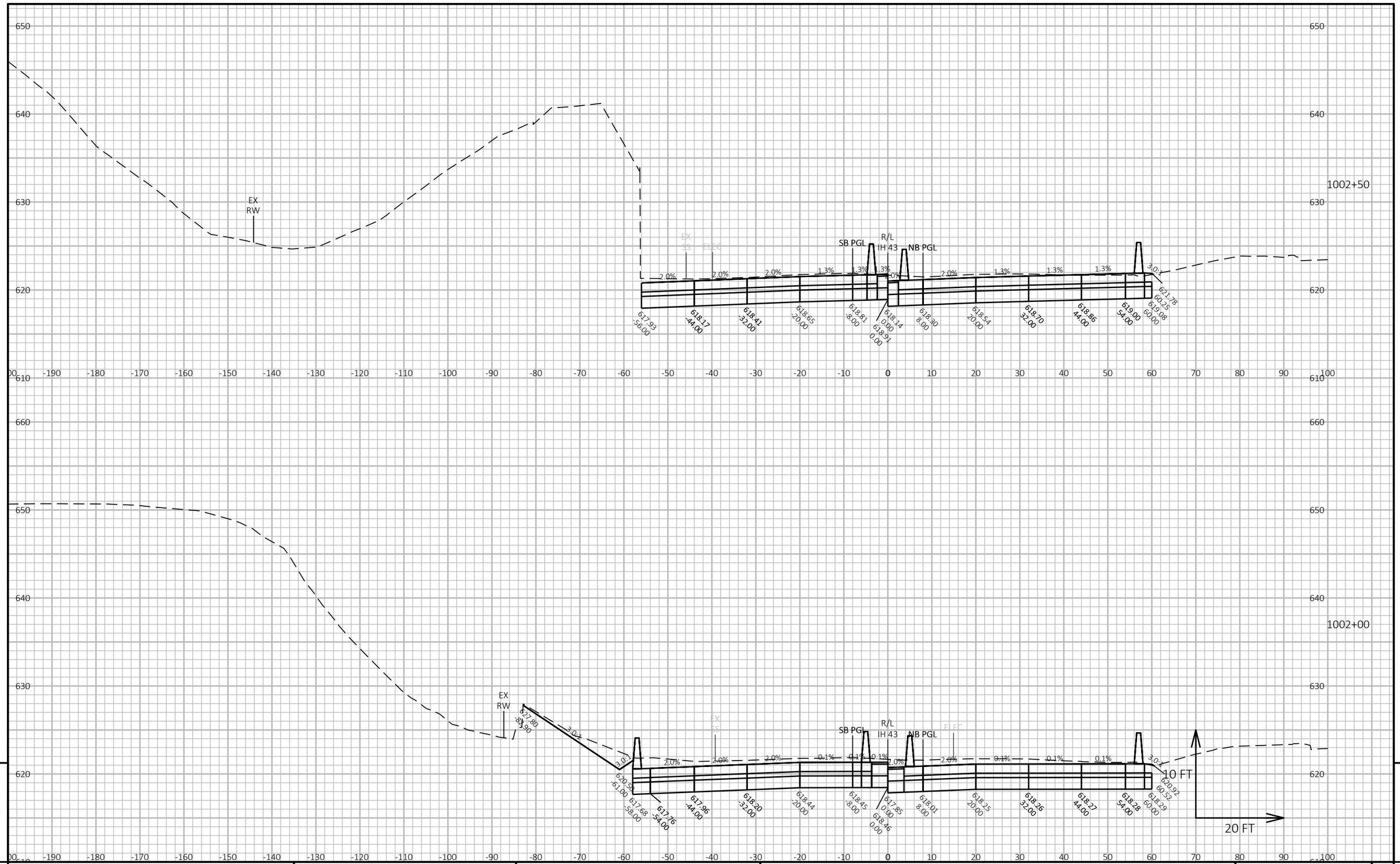
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_524

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 60

PLOT DATE : 2/14/2020 11:17 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



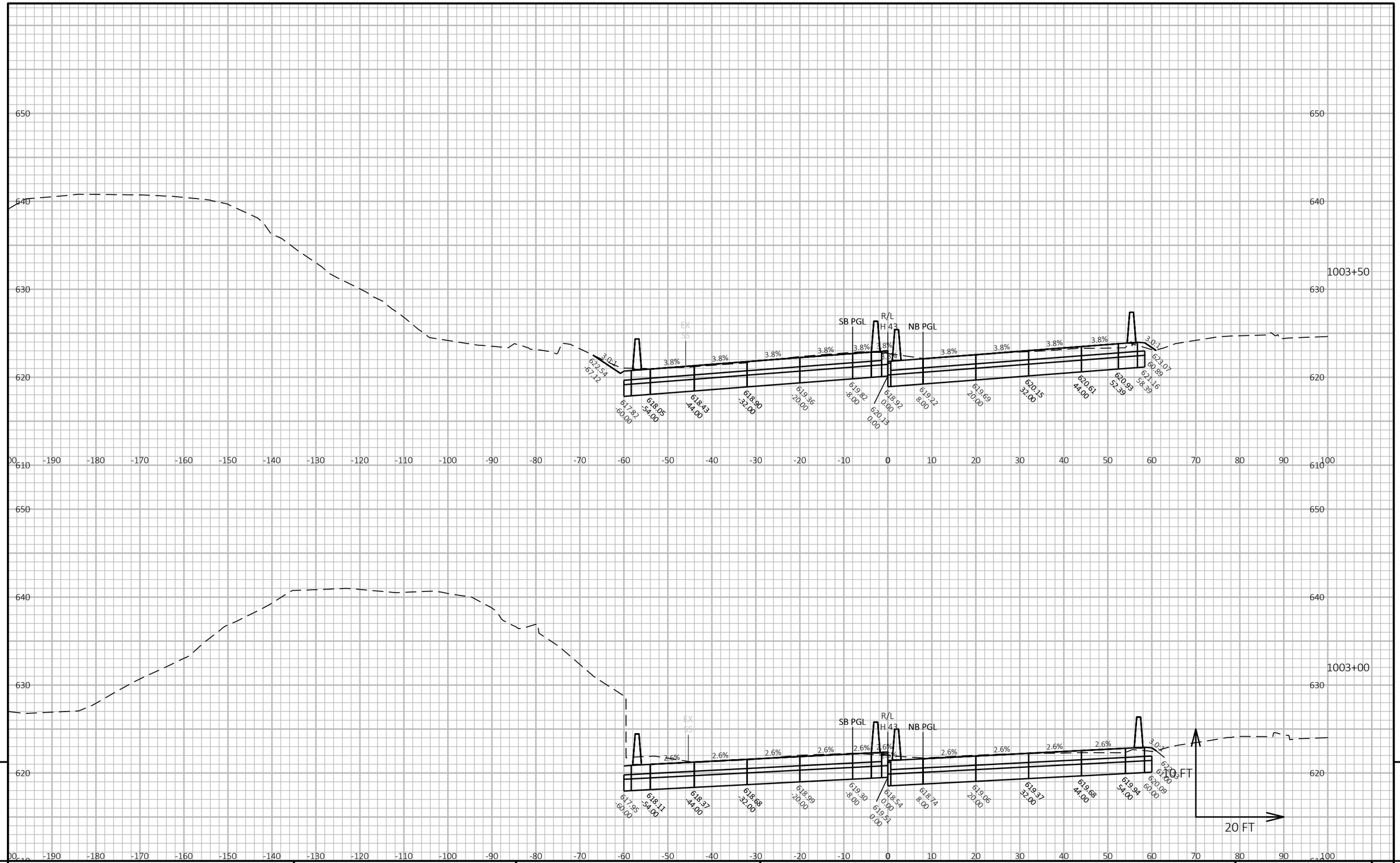
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 61

PLOT DATE : 2/14/2020 11:17 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_525

WISDOT/CADDS SHEET 49



9

9

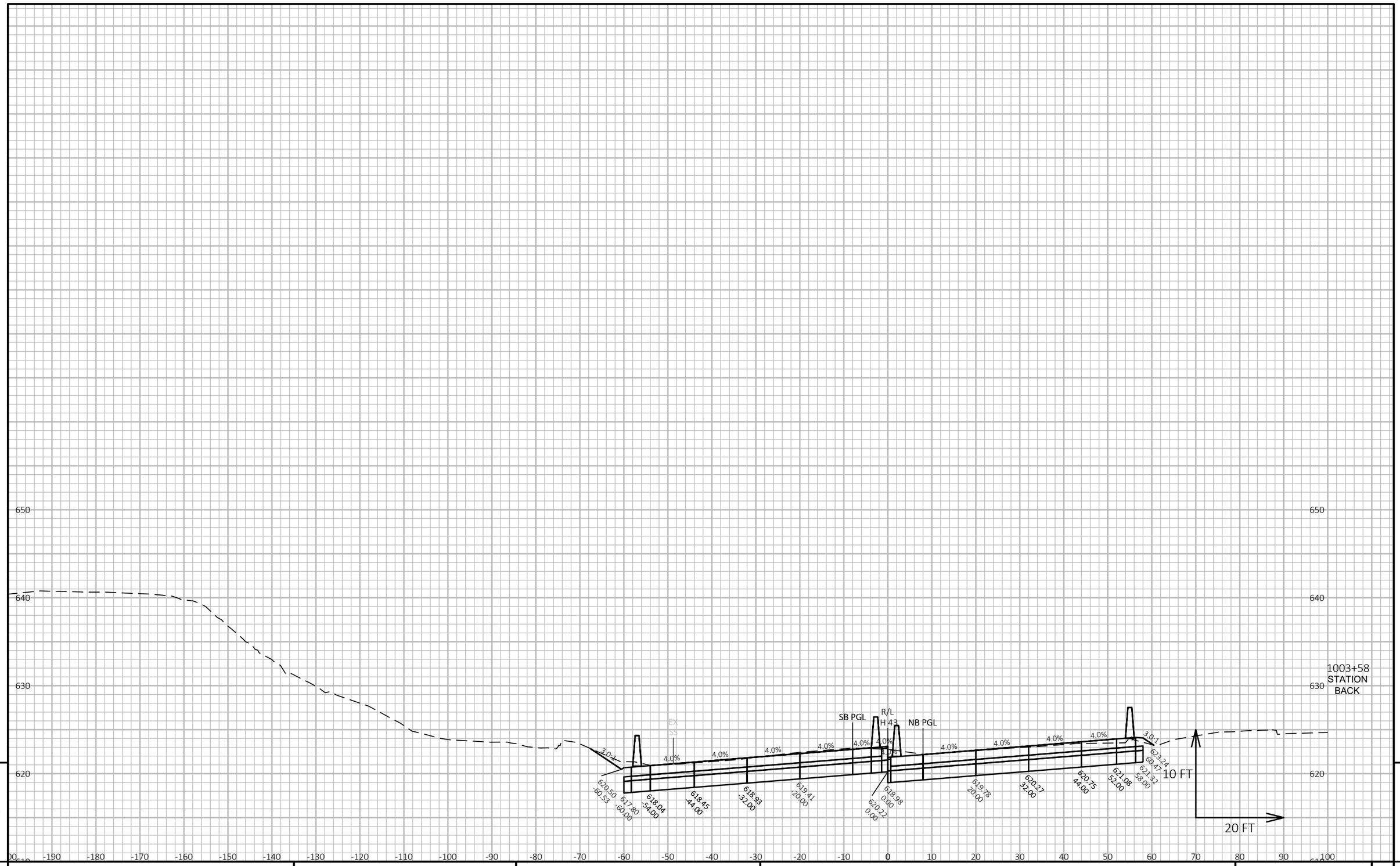
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_526

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 62

PLOT DATE : 2/14/2020 11:17 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

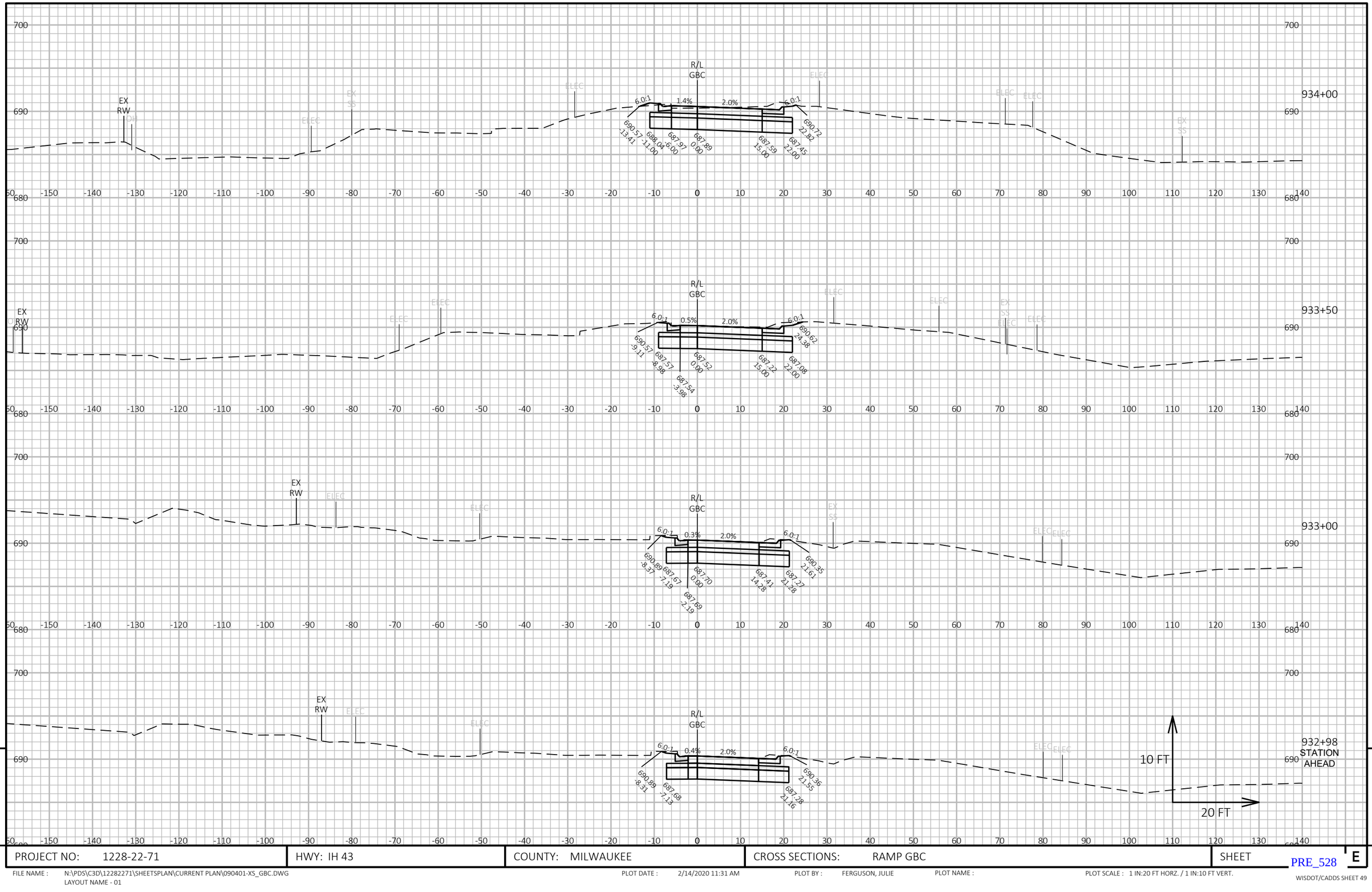
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_527

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 63

PLOT DATE : 2/14/2020 11:17 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



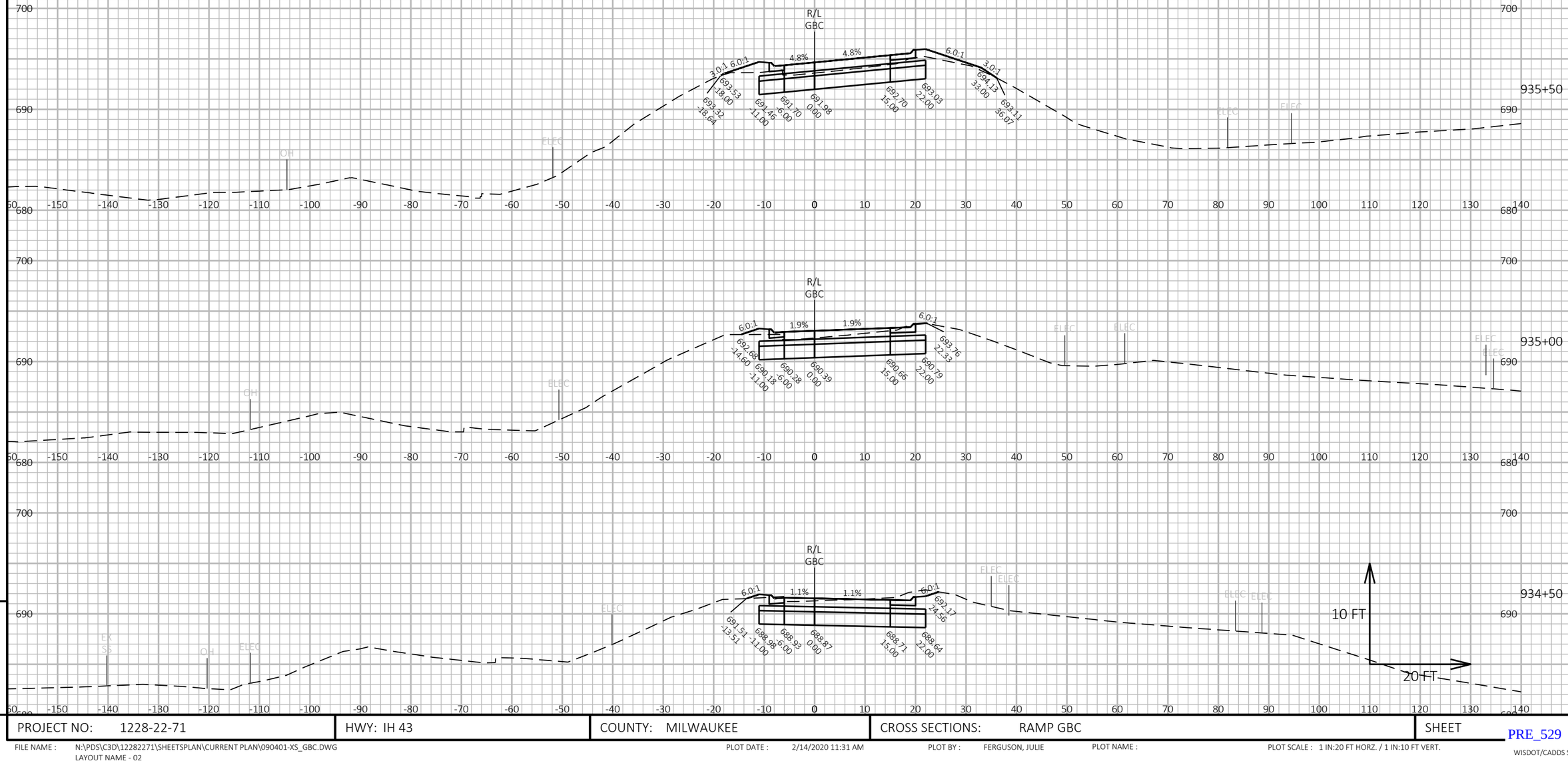
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_528

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

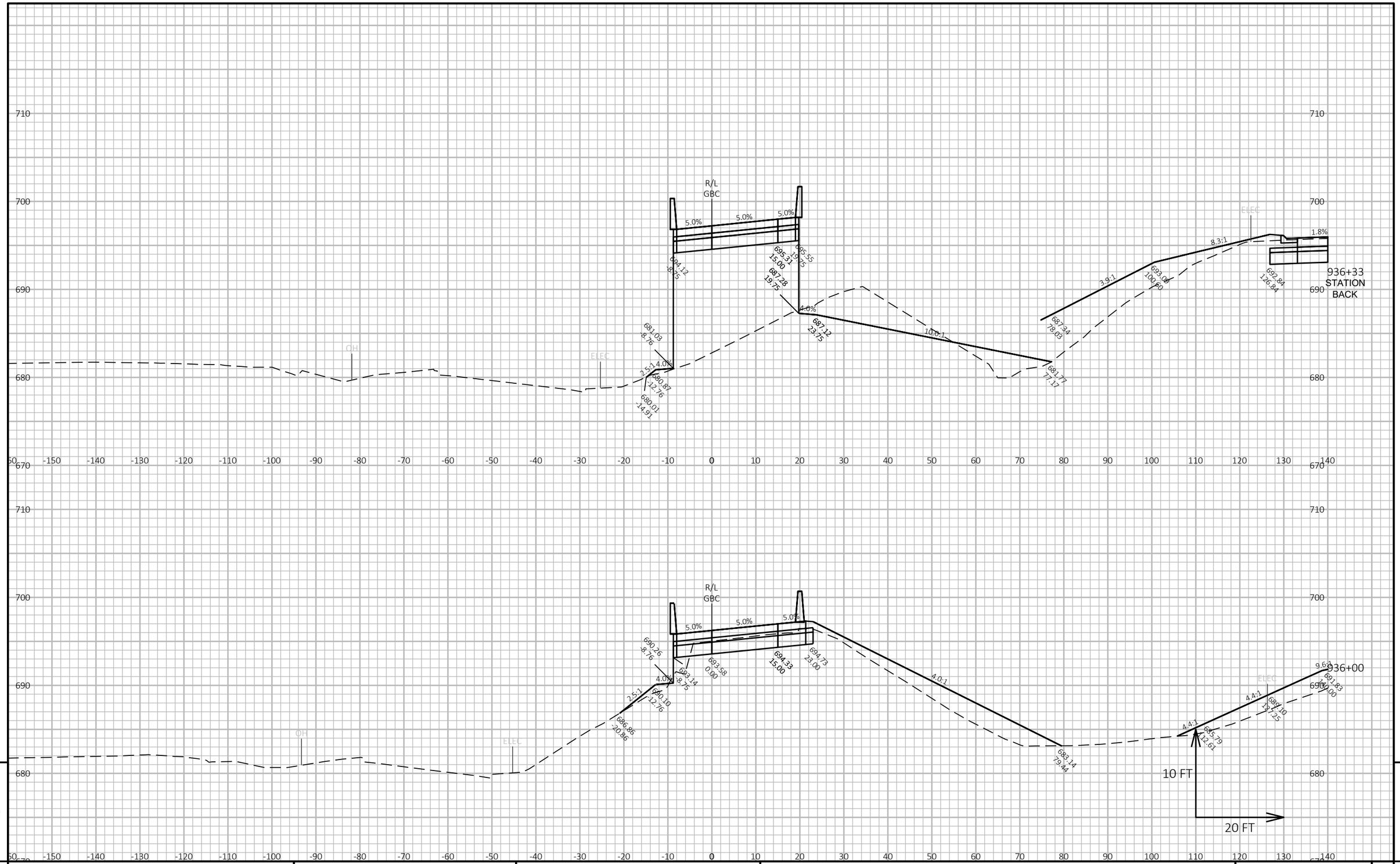
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_529

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

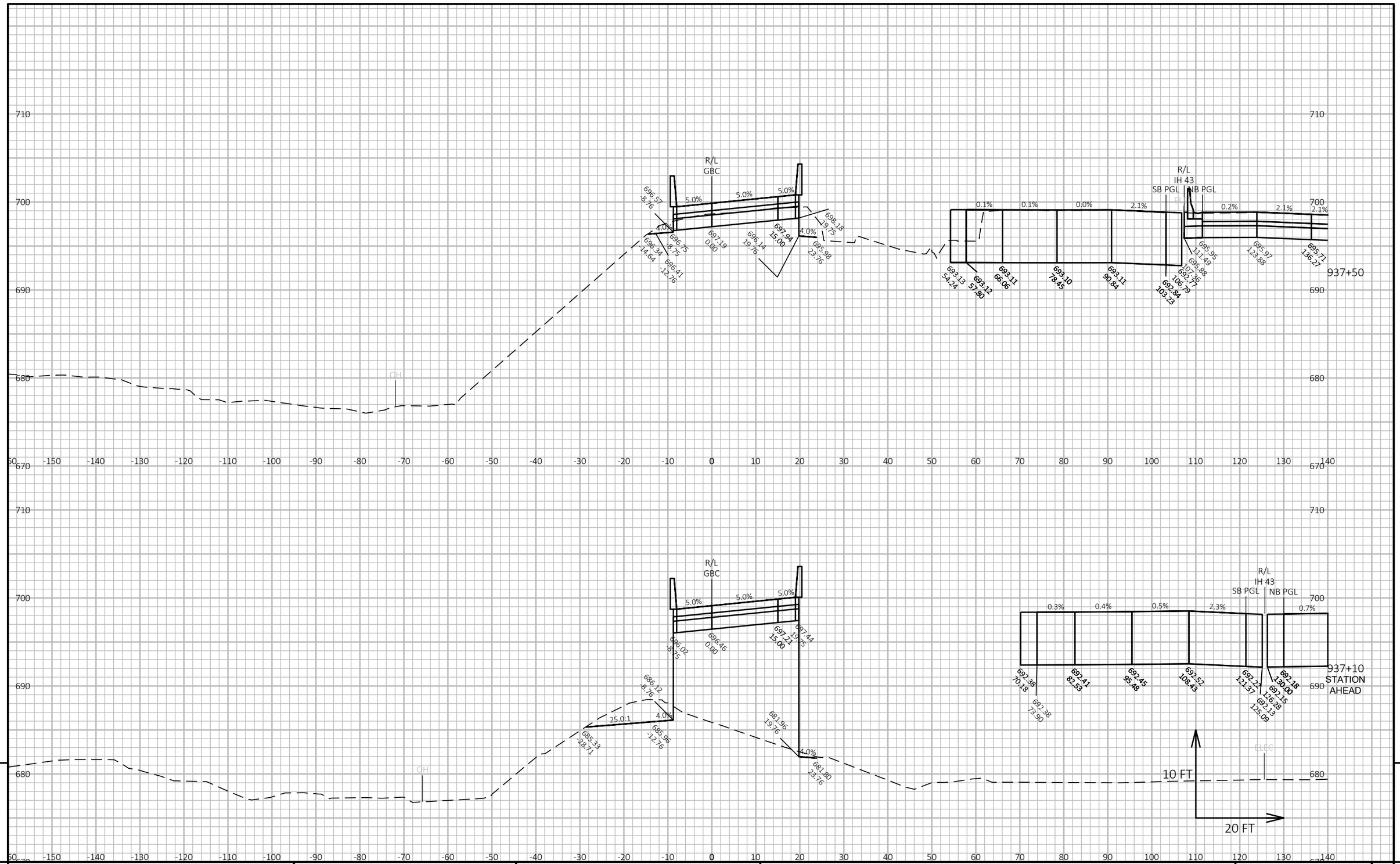
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_530

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



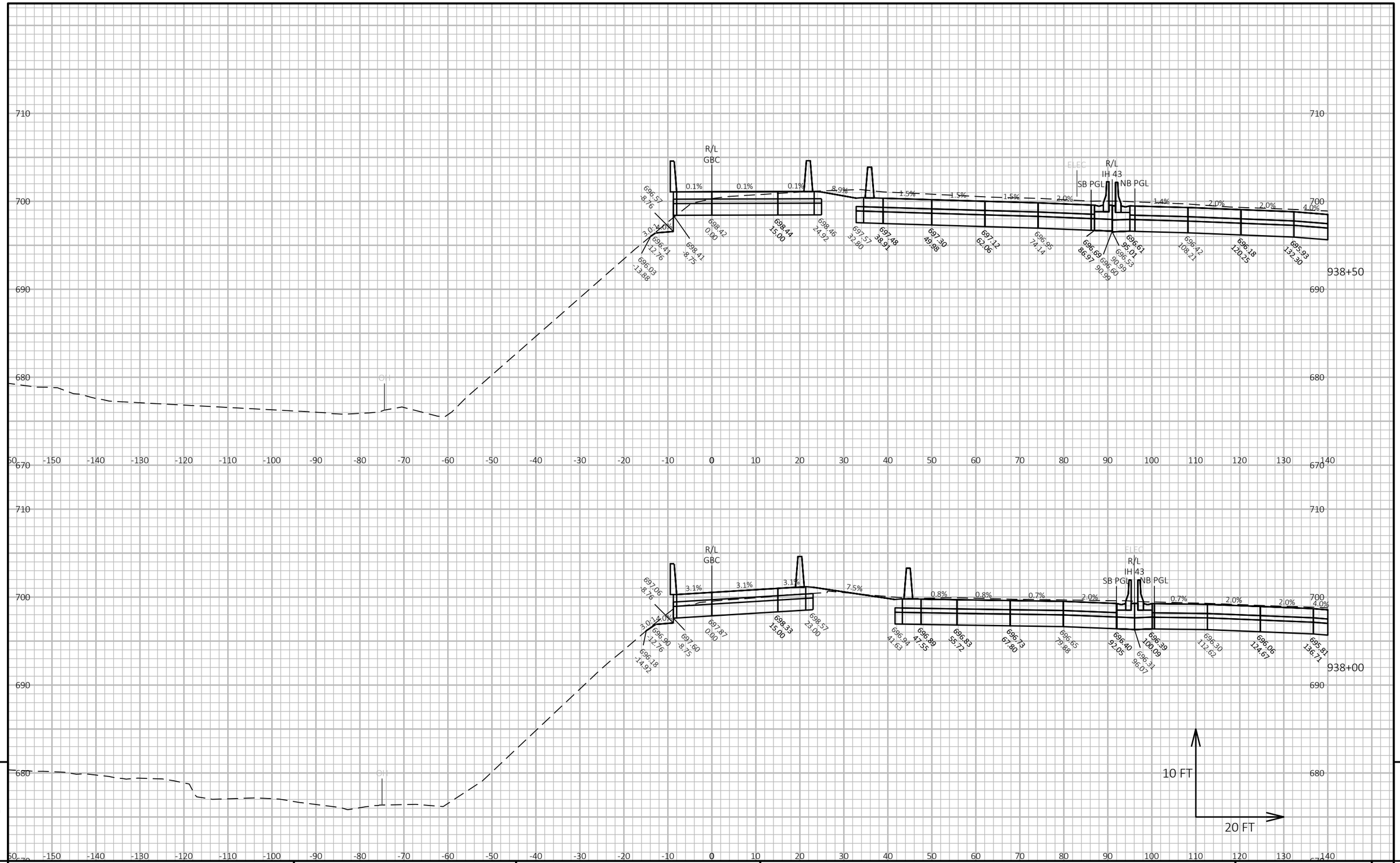
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_531

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 04

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



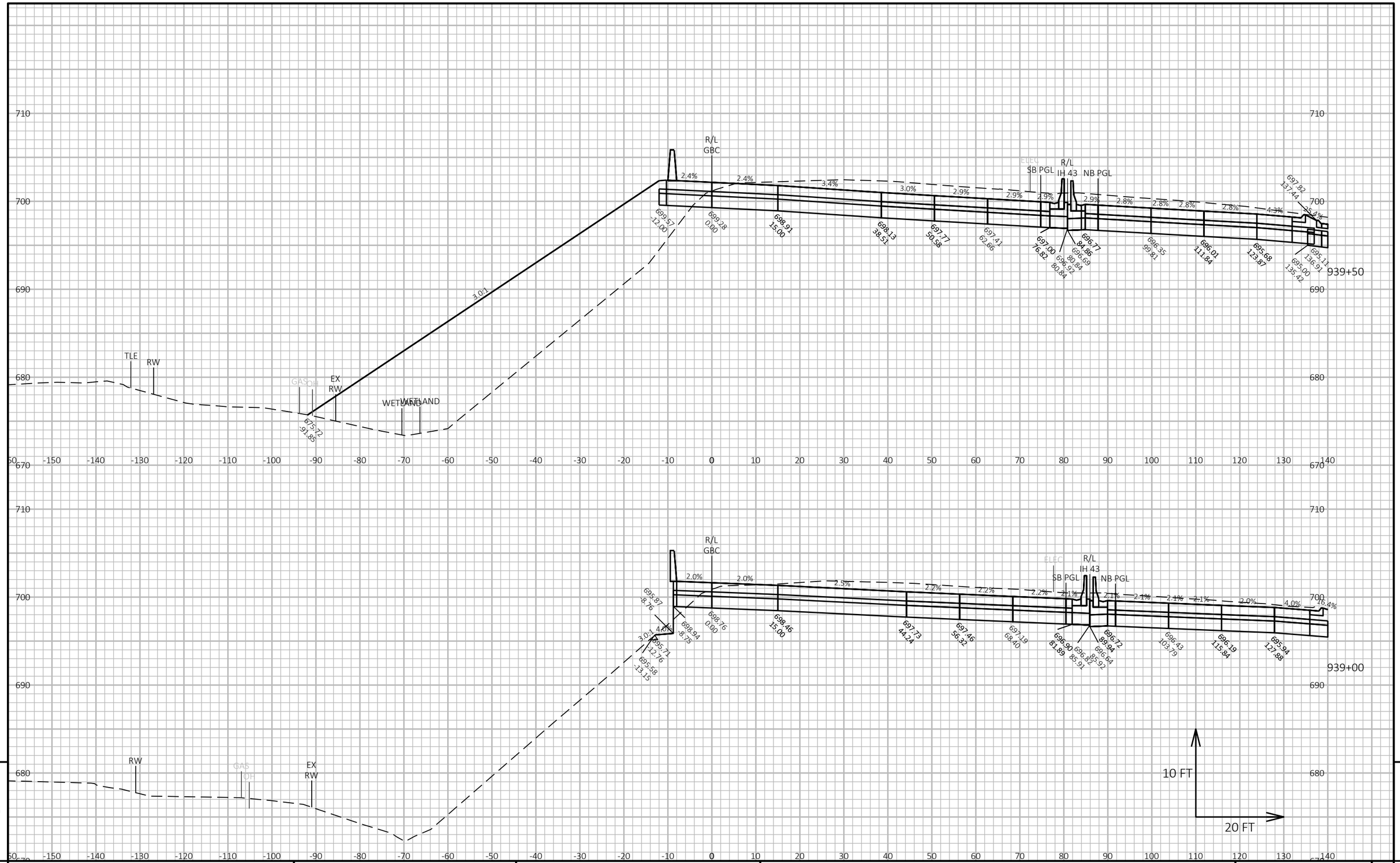
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_532

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

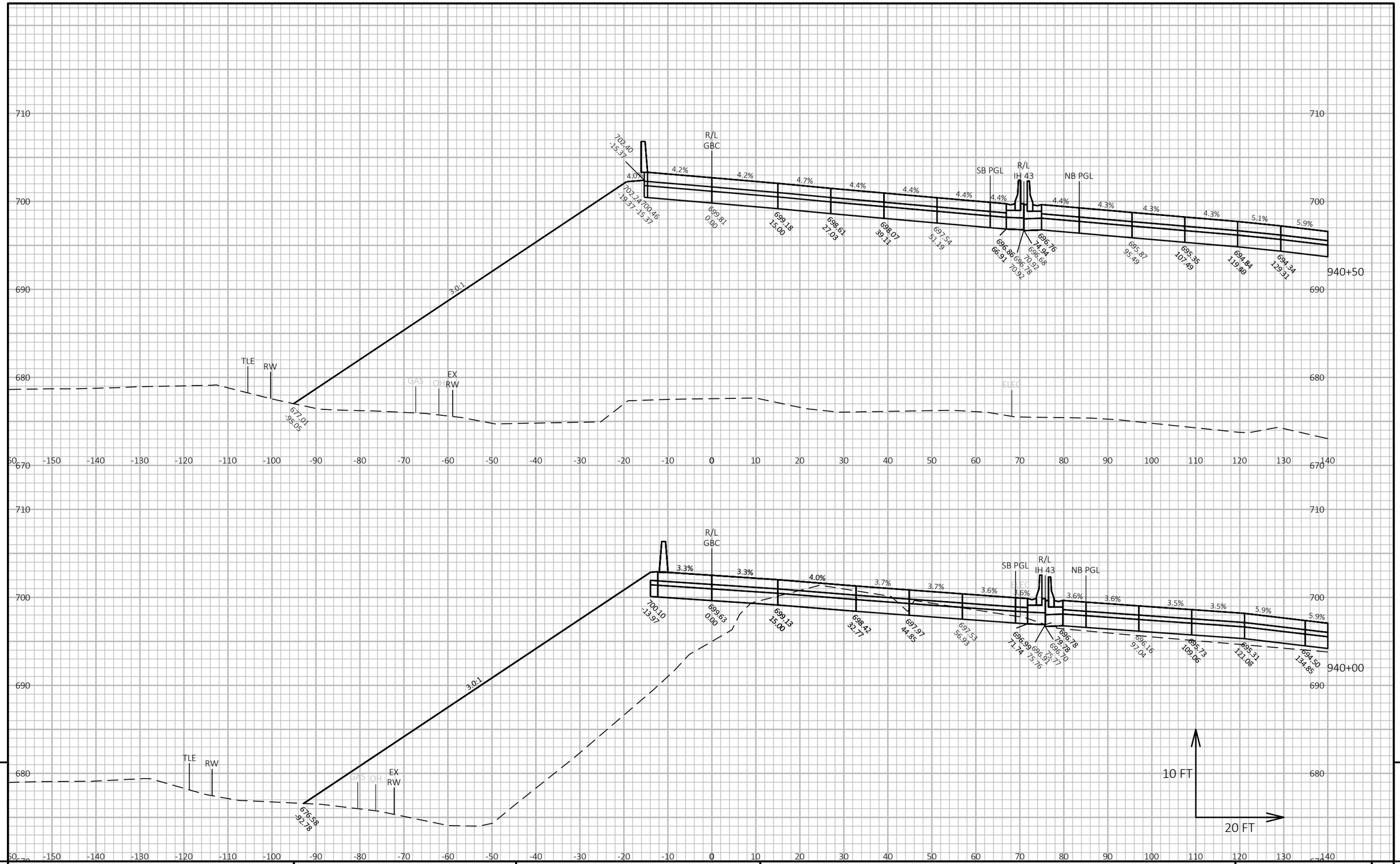
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_533

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

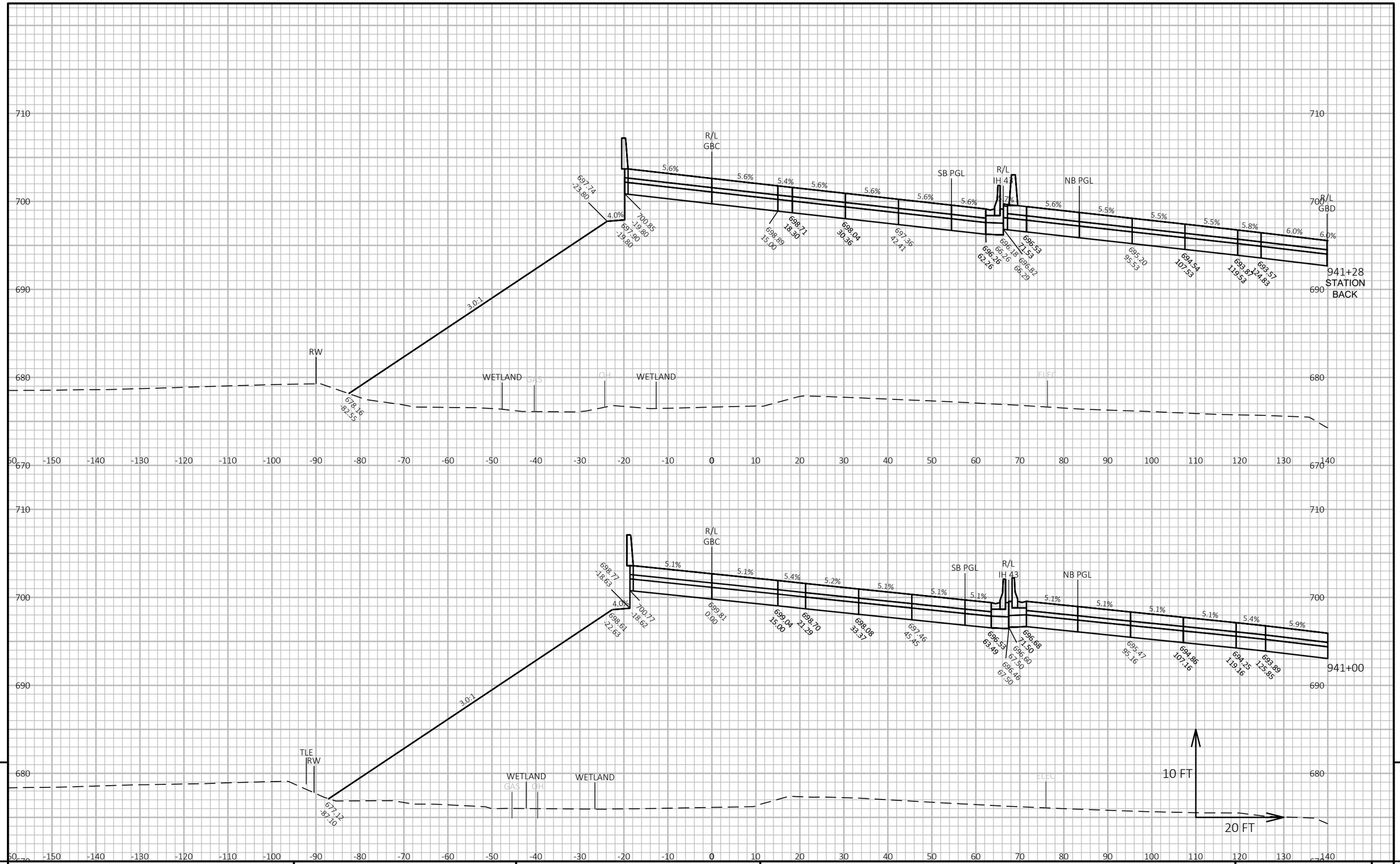
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

PRE_534

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 07

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



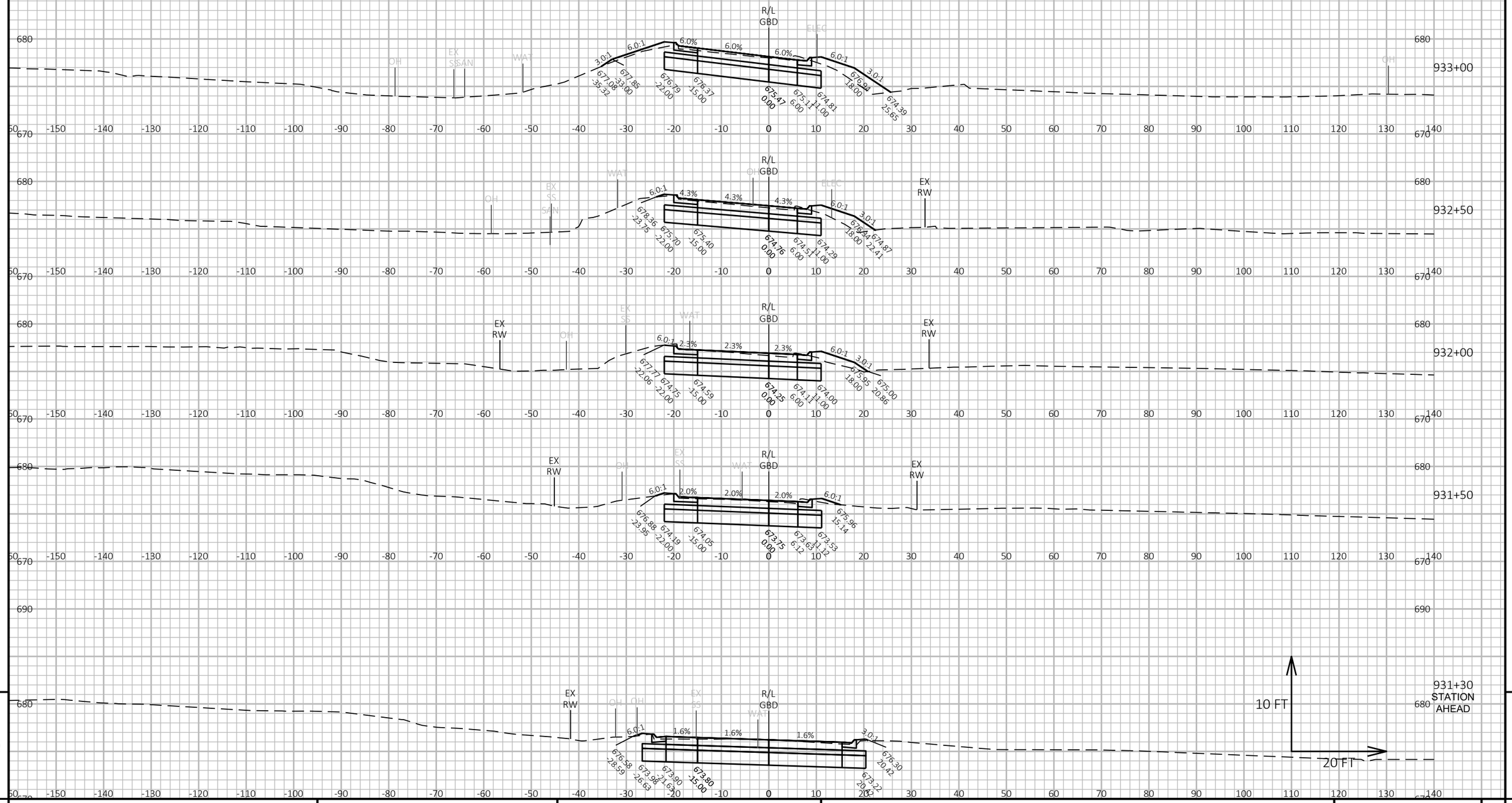
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBC	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090401-XS_GBC.DWG
LAYOUT NAME - 08

PLOT DATE : 2/14/2020 11:31 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_535

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_536

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

935+00

R/L GBD
EX SS
ELEC
EX SS
EX SAN
ELEC
ELEC
EX FO SS
EX RW
WAT
6.0:1
6.0%
6.0%
6.0%
6.0:1
6.0:1
3.0:1
685.21 -23.01
682.14 -22.00
681.72 -15.00
680.82 0.00
680.82 6.00
680.45 -1.00
680.16 -13.17
683.10
679.11 -18.00
678.89 -18.66

934+50

FO
EX SS
EX SS SAN
R/L GBD
EX SS
ELEC
EX RW
WAT
6.0:1
6.0%
6.0%
6.0%
6.0:1
6.0:1
3.0:1
683.46 -22.82
680.43 -22.00
680.01 -15.00
679.11 0.00
678.75 6.00
678.45 -1.00
681.20 -14.31
677.90 -18.00
674.69 -27.62

934+00

OH
EX SS
SAN
WAT
SAN
WAT
EX SS
R/L GBD
EX SS
ELEC
EX RW
6.0:1
6.0%
6.0%
6.0%
6.0:1
6.0:1
3.0:1
681.87 -22.09
678.96 -22.00
678.54 -15.00
677.64 0.00
677.28 6.00
676.98 -1.00
679.11 -18.00
678.89 -18.66

933+50

OH
EX SS
SAN
WAT
R/L GBD
ELEC
EX RW
6.0:1
6.0%
6.0%
6.0%
6.0:1
6.0:1
3.0:1
680.00 -25.85
677.74 -22.00
677.32 -15.00
676.42 0.00
676.06 6.00
675.76 -1.00
677.90 -18.00
674.69 -27.62
10 FT
20 FT

9

9

PROJECT NO: 1228-22-71 | HWY: IH 43 | COUNTY: MILWAUKEE | CROSS SECTIONS: RAMP GBD | SHEET E

PRE_537

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 02

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

936+00

935+50

R/L GBD

EX SS

ELEC

FO

EX RW

EX SS SAN

WAT

6.0:1

6.0%

6.0%

6.0%

6.0%

6.0:1

3.0:1

689.15 -25.35

685.69 -22.00

685.27 -15.00

684.37 0.00

684.01 6.00

683.71 11.00

687.03 11.11

686.75 -22.39

683.91 -22.00

683.49 -15.00

682.59 0.00

682.21 6.00

681.93 11.00

684.07 18.00

681.08 26.95

10 FT

20 FT

700 690 680 670

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_538

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 03

PLOT DATE : 2/14/2020 11:44 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

/L
43
700
NB PGL
2.6%
1.1%
1.1%
1.1%
690
691.28
-154.94
691.18
-159.78
691.63
-141.59
691.48
-128.24
691.33
-114.88
691.23
-105.98
691.19
-102.14
EC
ELEC
EX
SS
680
670
-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
700
690
680
0.5%
0.5%
690.05
-1.00
689.99
-146.99
689.94
-137.72
689.91
-133.72
ELEC
EX
SS
680
670
700
690
680
EX
SS
6.0:1
693.23
-28.57
6.0%
6.0%
6.0%
R/L
GBD
ELEC
FO
6.0:1
3.0:1
689.24
-22.00
688.82
-15.00
687.92
0.00
687.56
6.00
687.26
31.00
689.39
18.00
689.10
18.88
700
690
937+00
EX
RW
R/L
GBD
EX
SS
ELEC
FO
6.0:1
691.17
-26.82
6.0%
6.0%
6.0%
6.0:1
3.0:1
687.46
-22.00
687.04
-15.00
686.14
0.00
685.78
6.00
685.48
31.00
687.62
18.00
685.21
25.23
936+50
EX
RW
10 FT
20 FT
9
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 04

PLOT DATE : 2/14/2020 11:44 AM

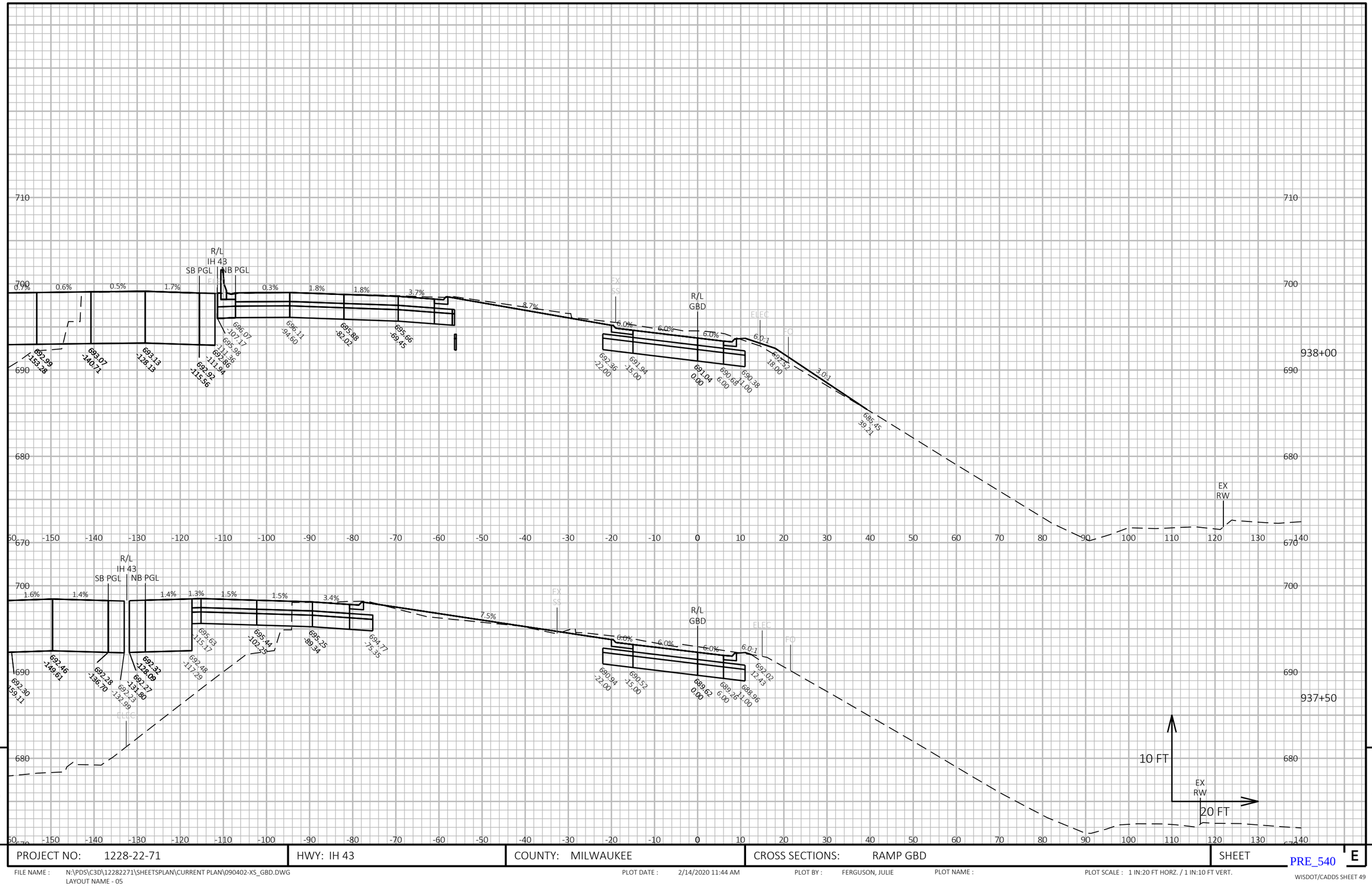
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_539

WISDOT/CADDS SHEET 49



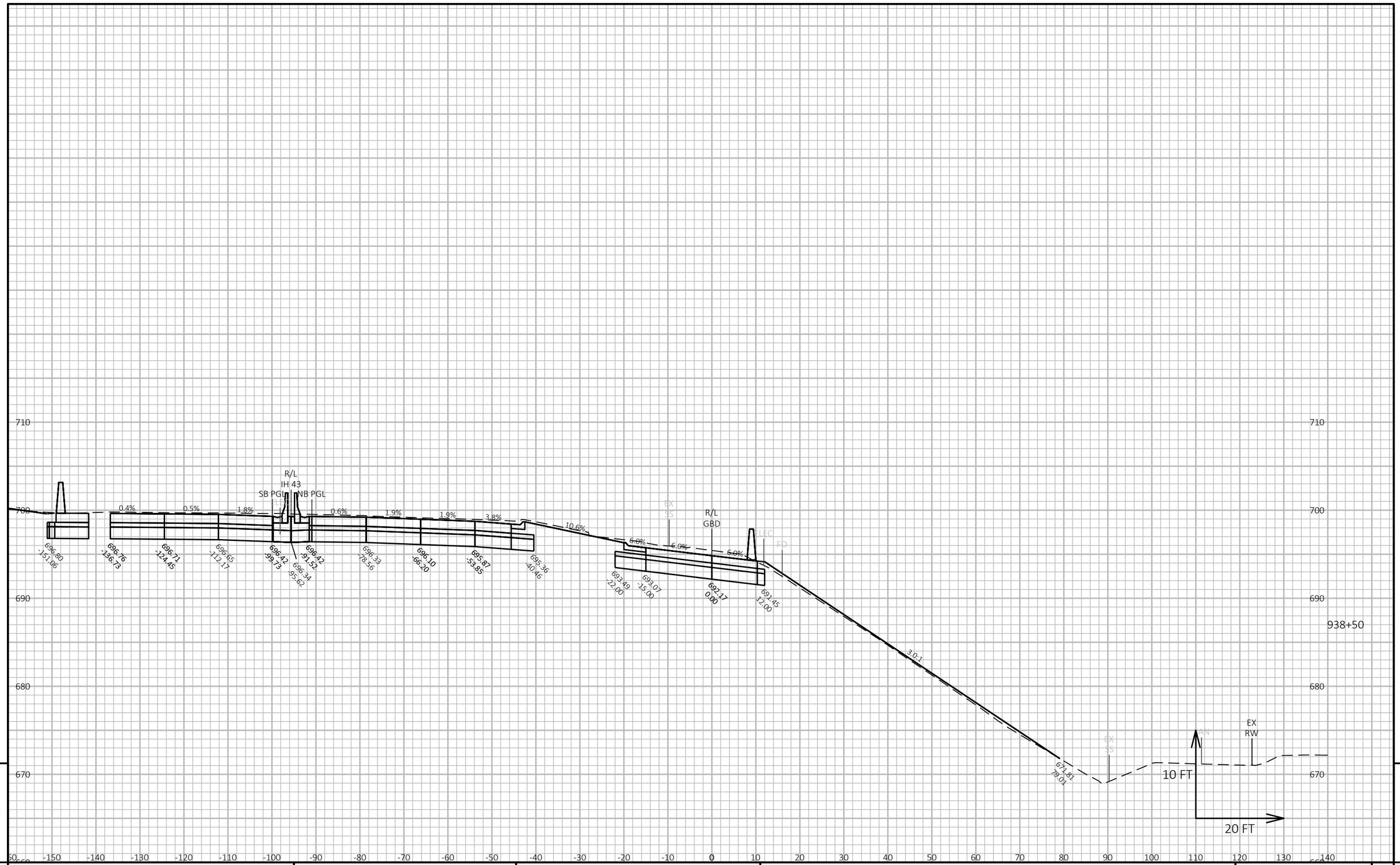
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 05

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_540

WISDOT/CADDS SHEET 49



9

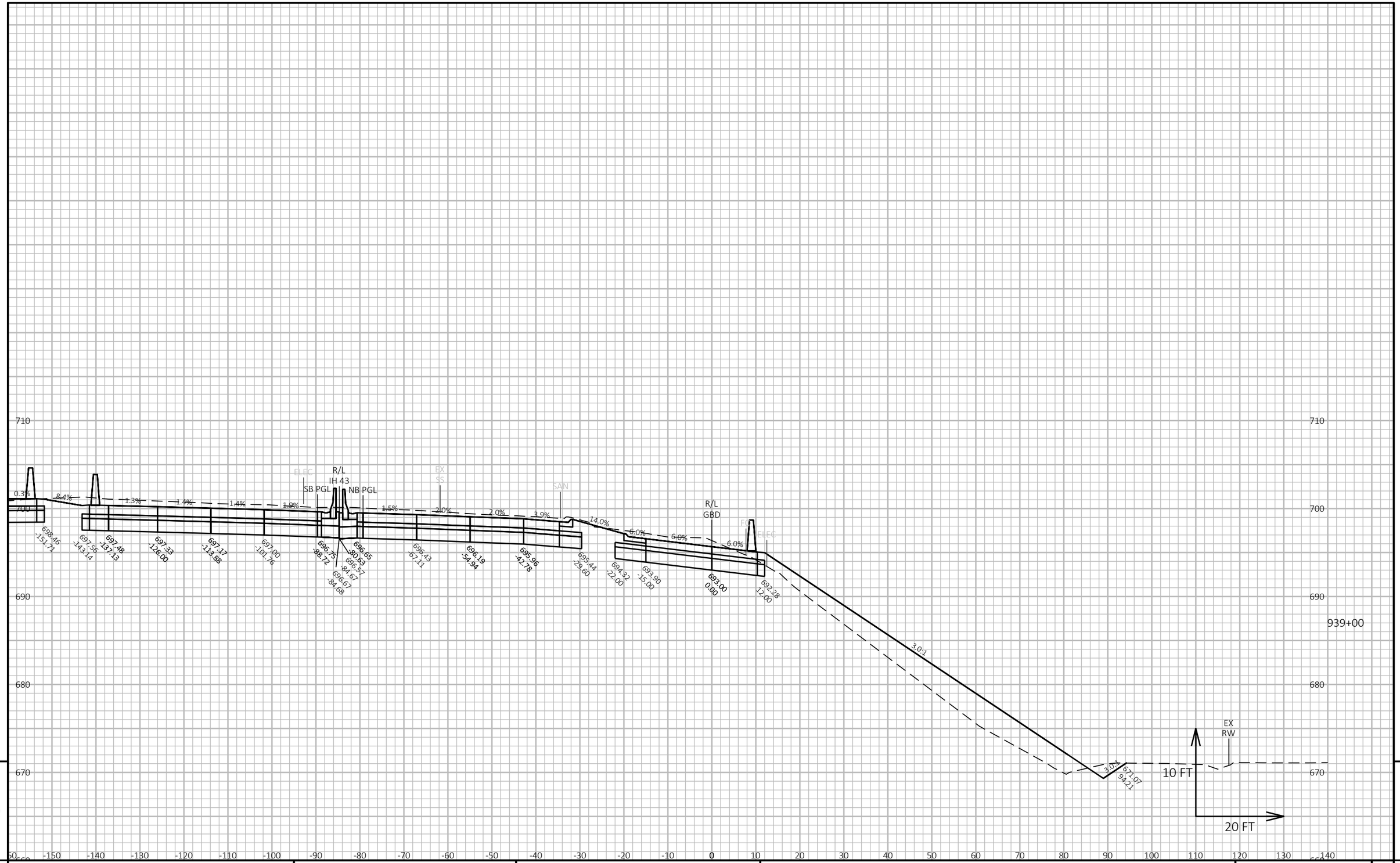
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_541

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 06

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

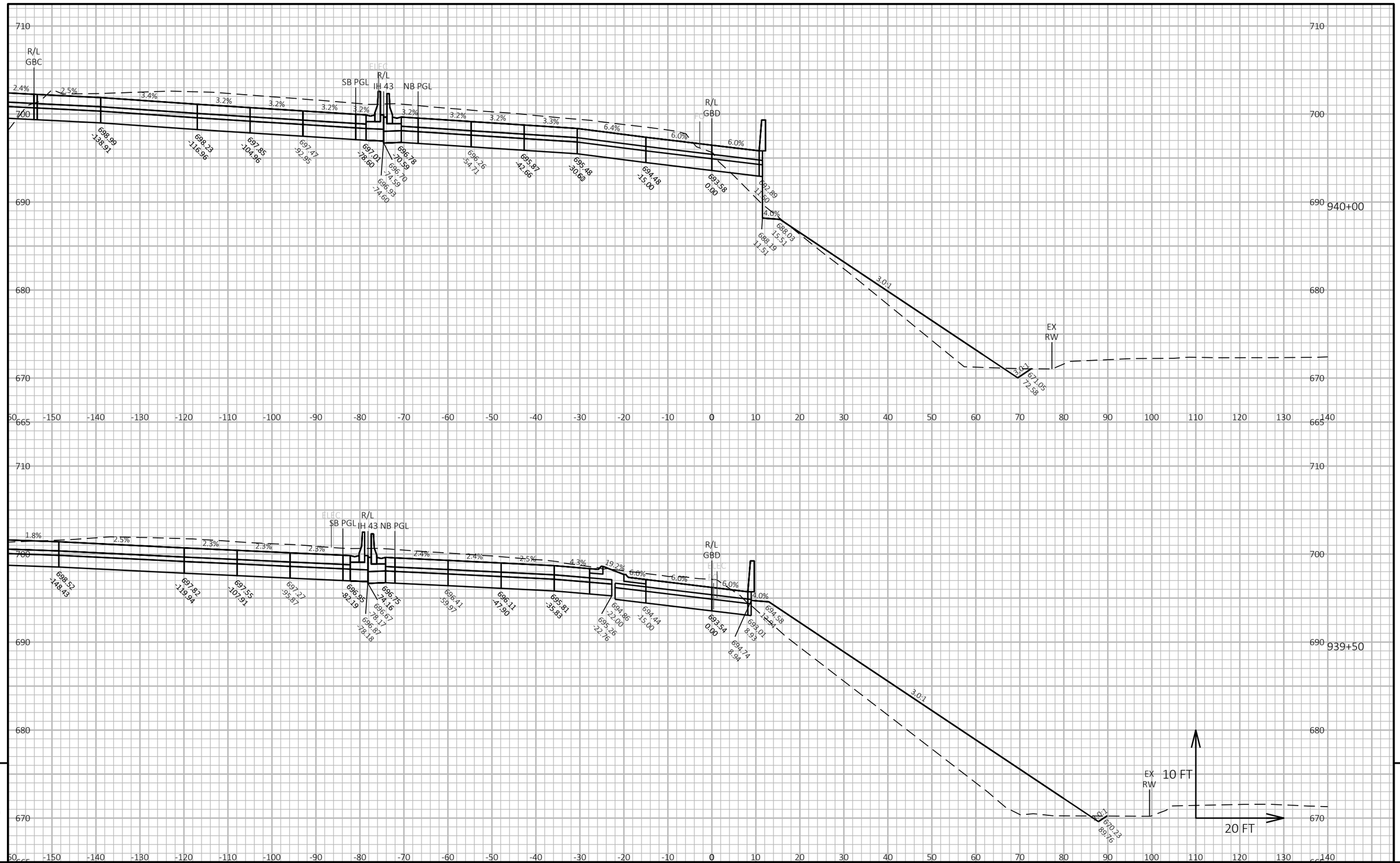
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_542

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 07

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

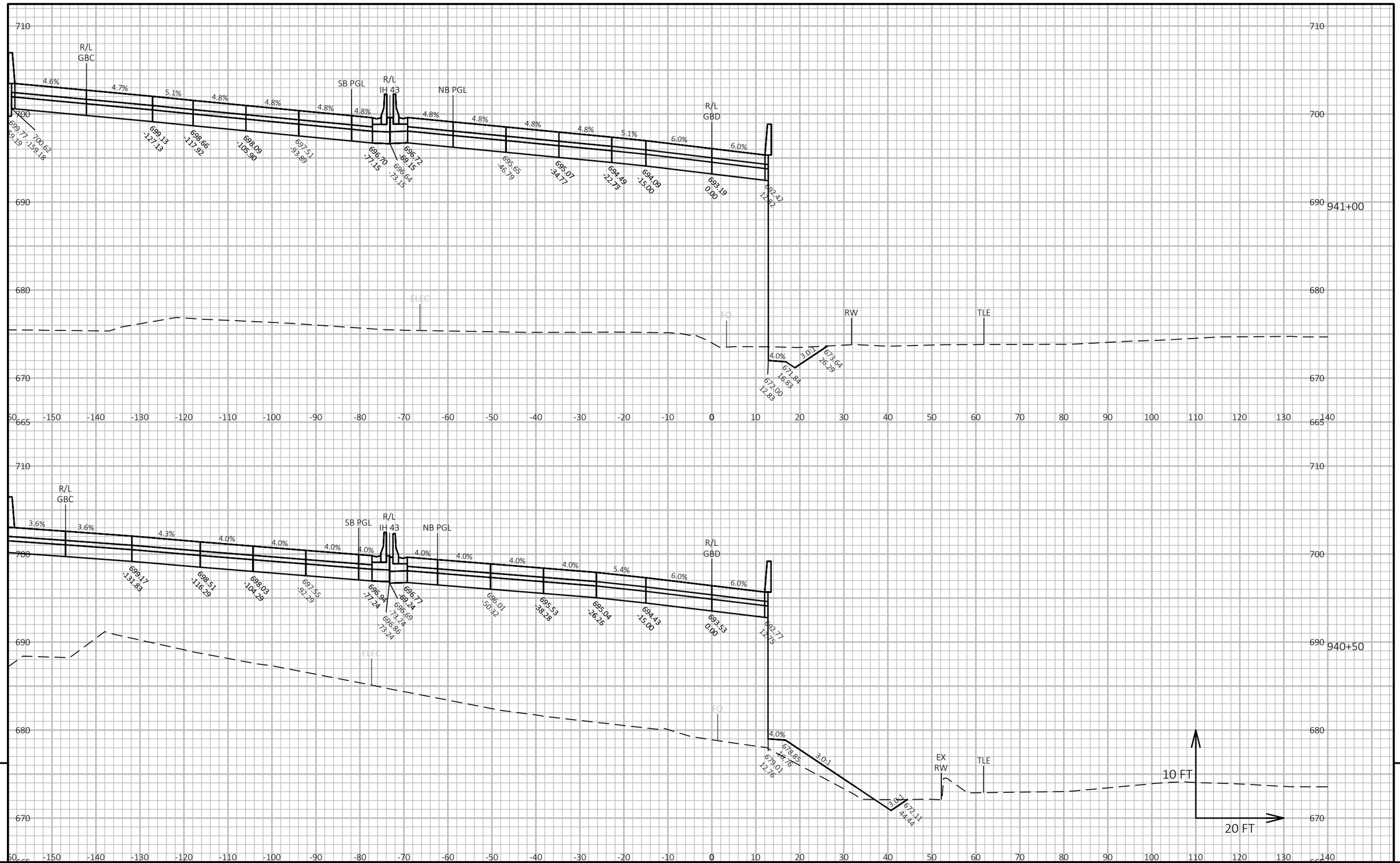
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_543

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 08

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

PRE_544

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 09

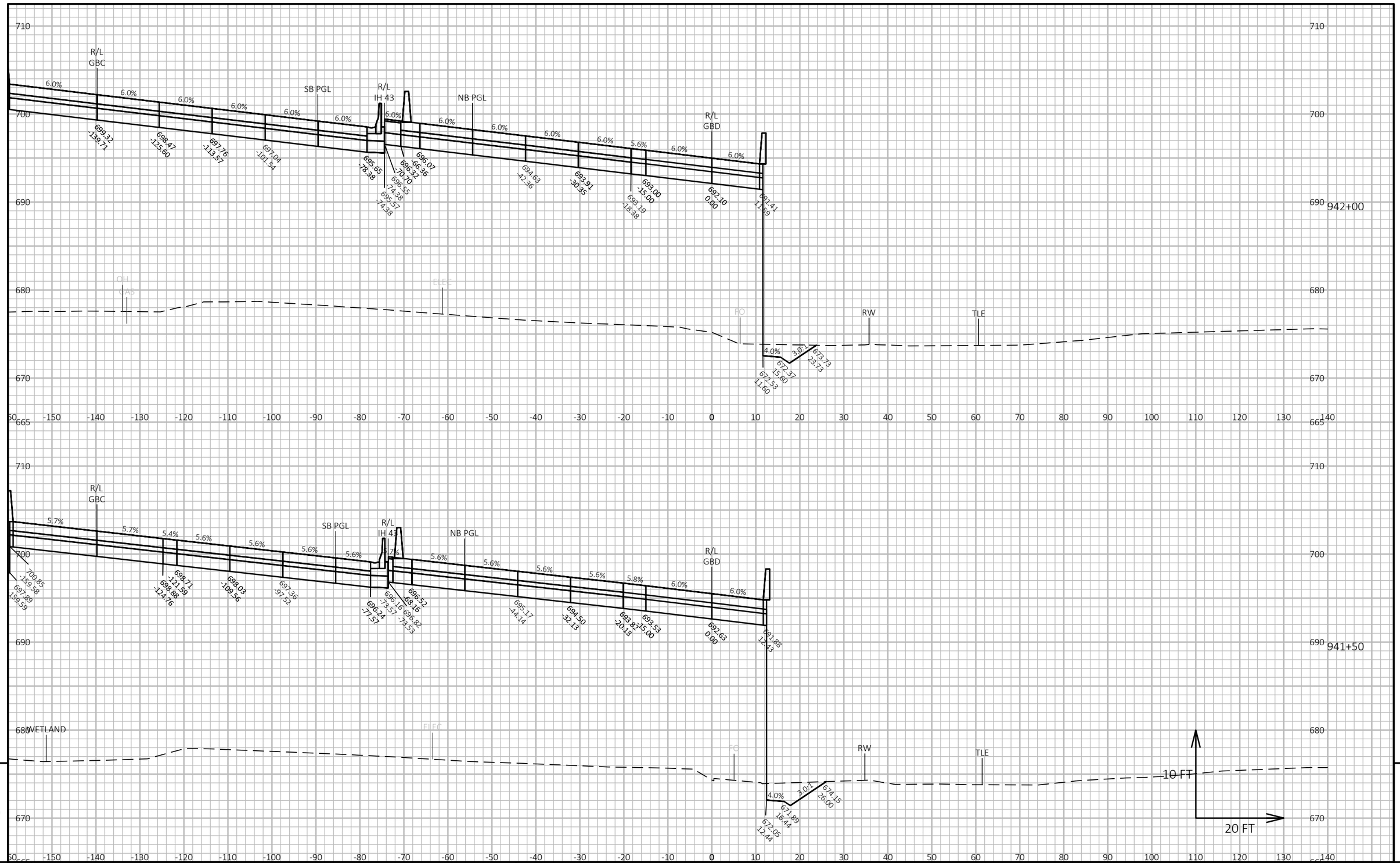
PLOT DATE : 2/14/2020 11:44 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



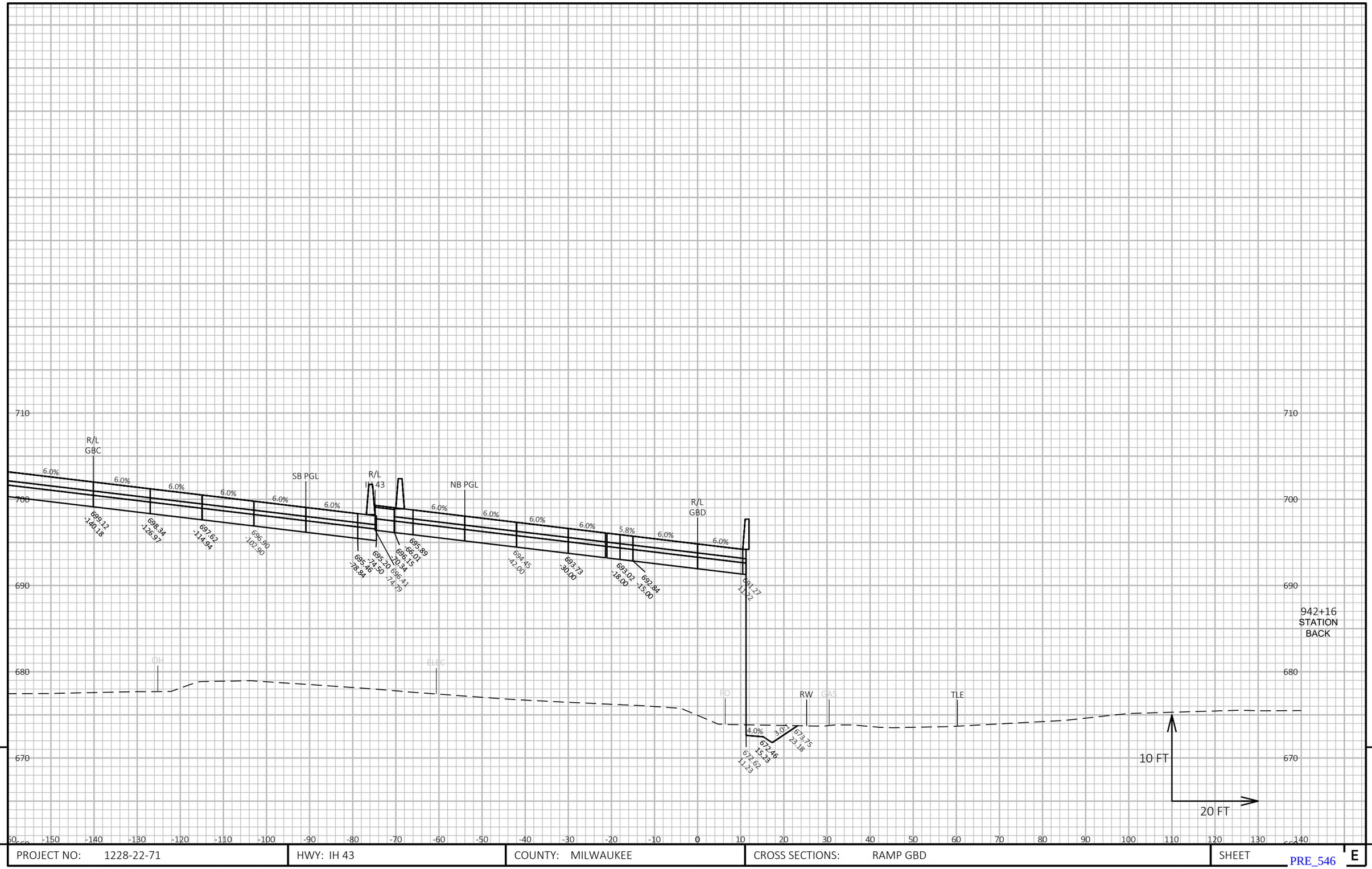
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 10

PLOT DATE : 2/14/2020 11:44 AM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_545

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP GBD	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090402-XS_GBD.DWG
LAYOUT NAME - 11

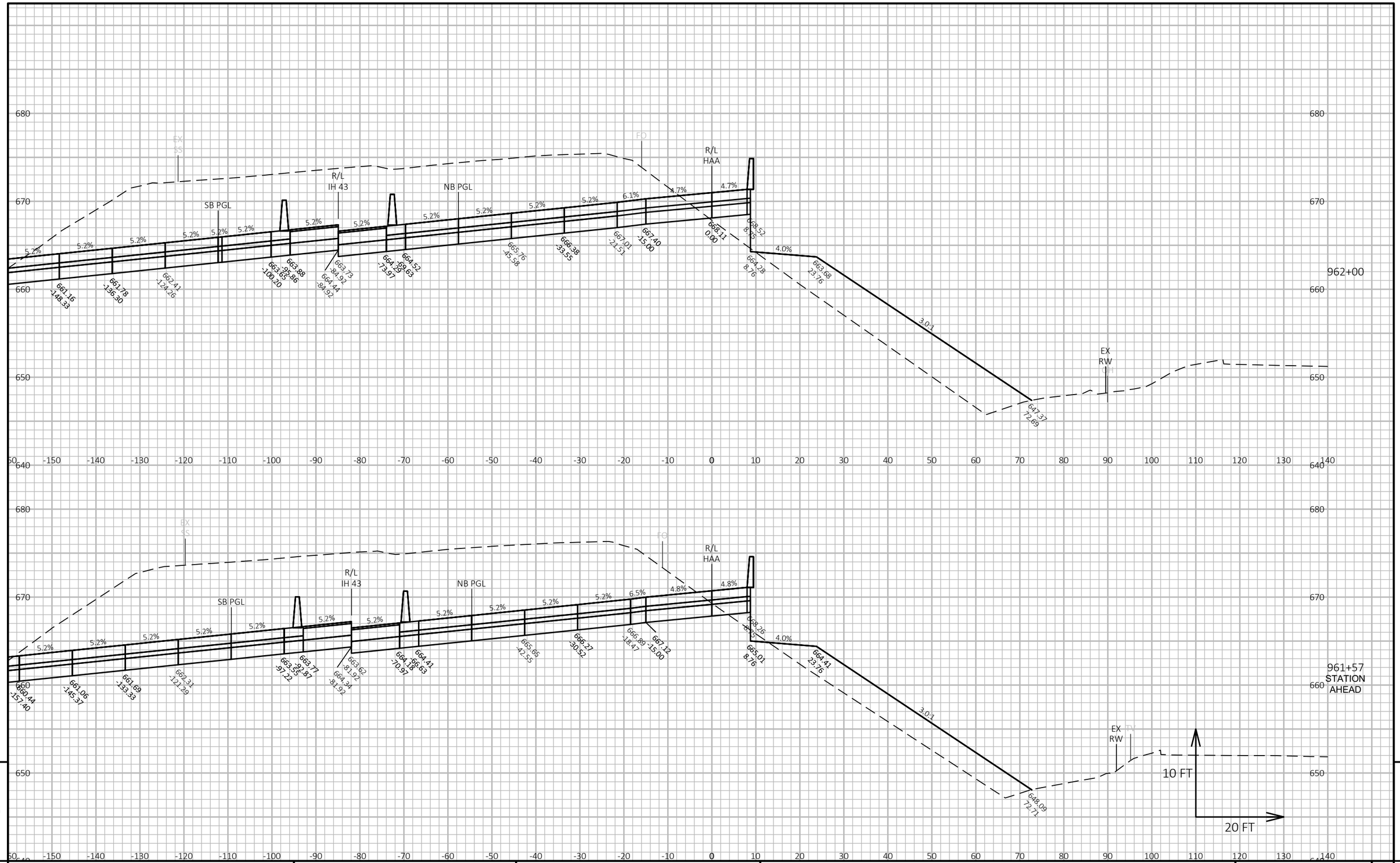
PLOT DATE : 2/14/2020 11:44 AM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_546



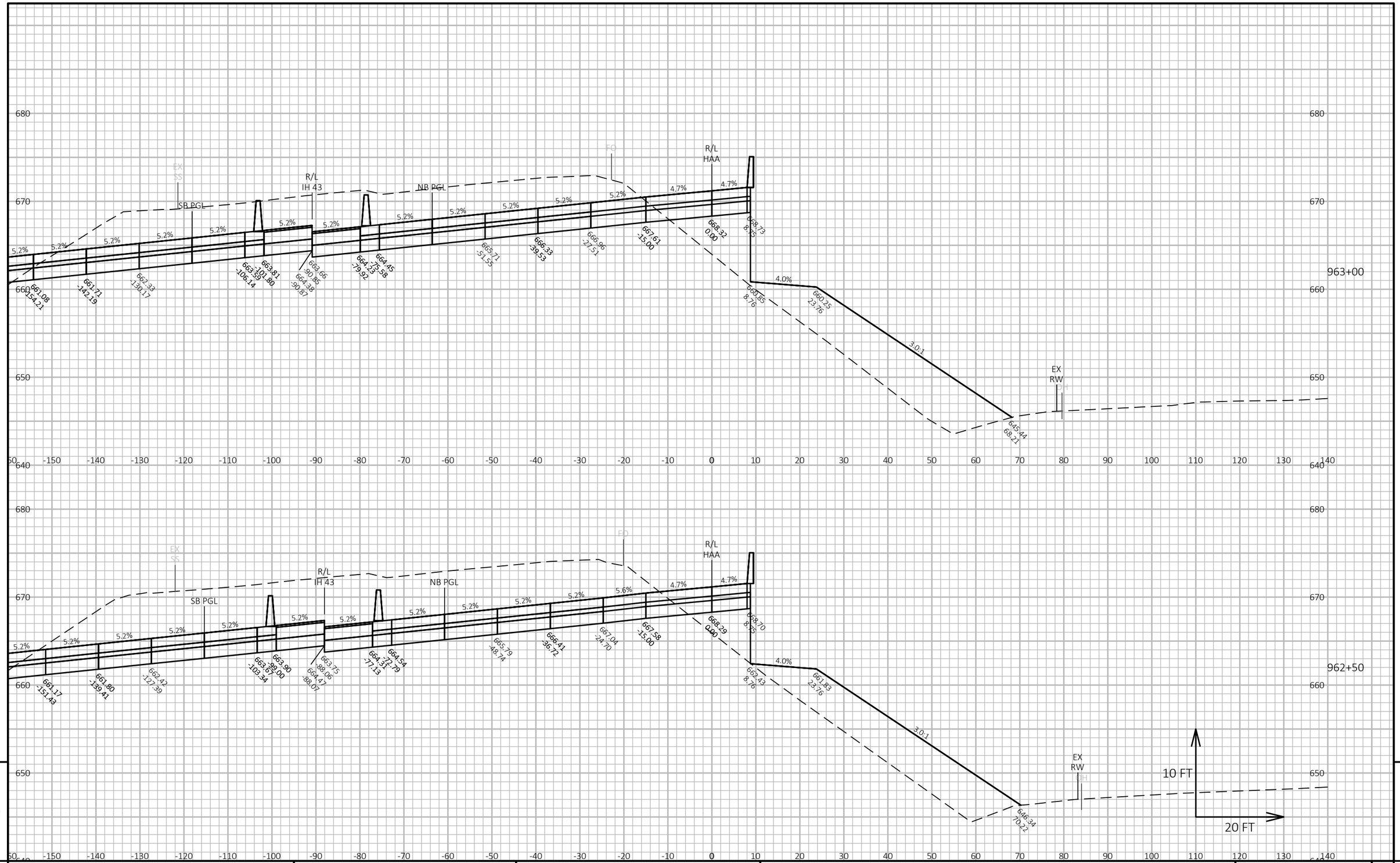
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_547

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 01

PLOT DATE : 2/11/2020 1:44 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 02

PLOT DATE : 2/11/2020 1:44 PM

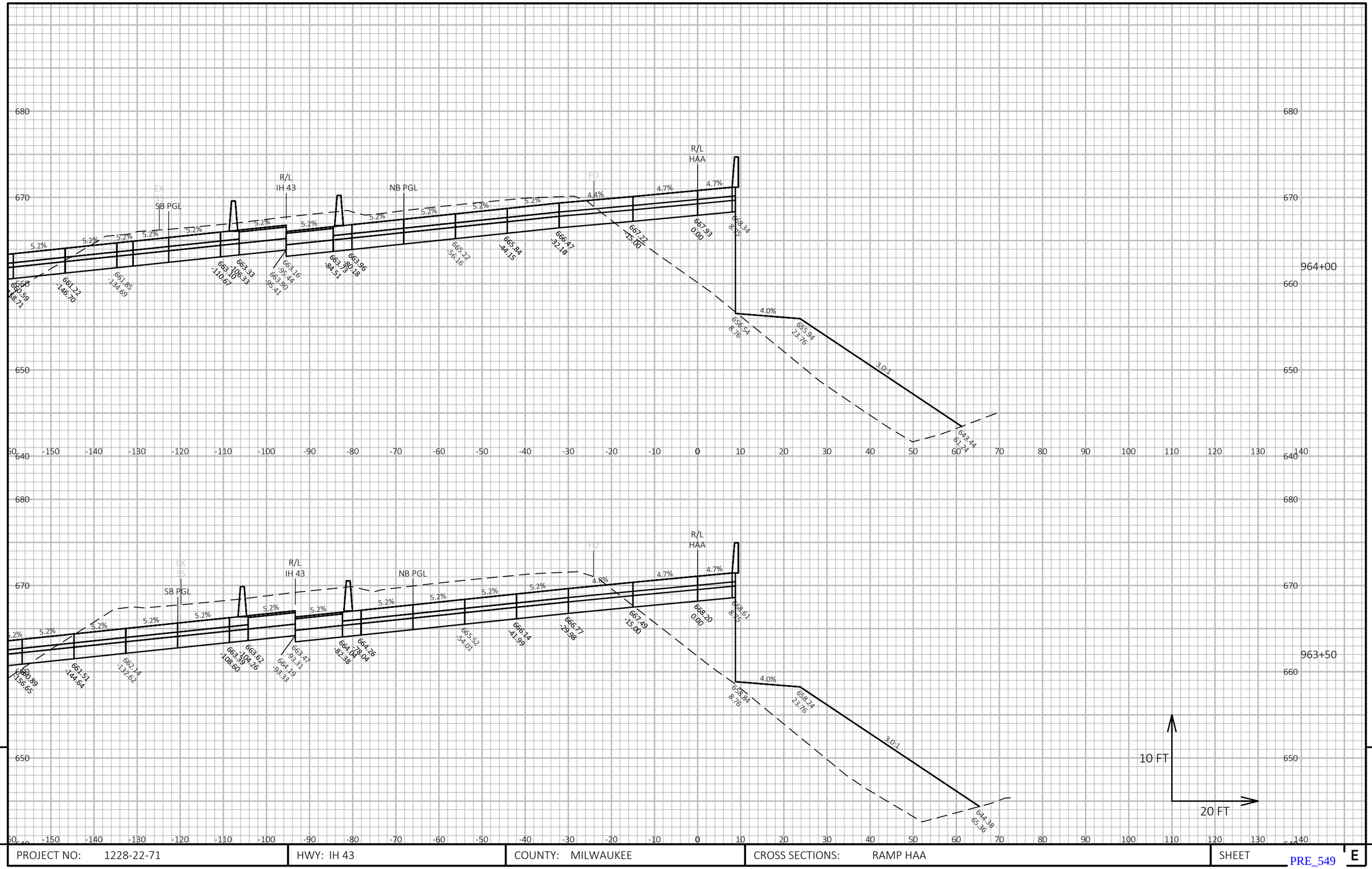
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_548

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 03

PLOT DATE : 2/11/2020 1:44 PM

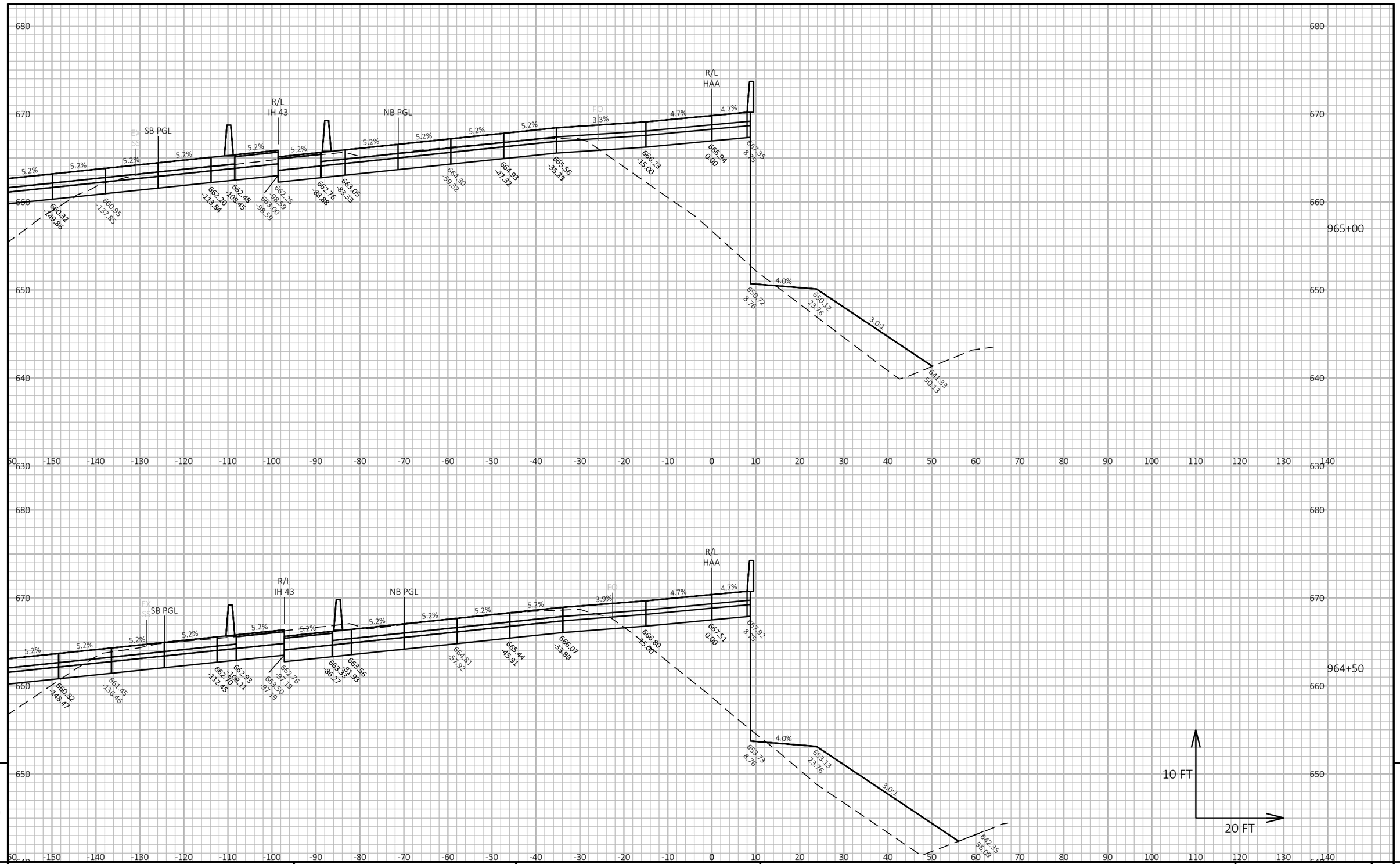
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_549

WISDOT/CADDS SHEET 49



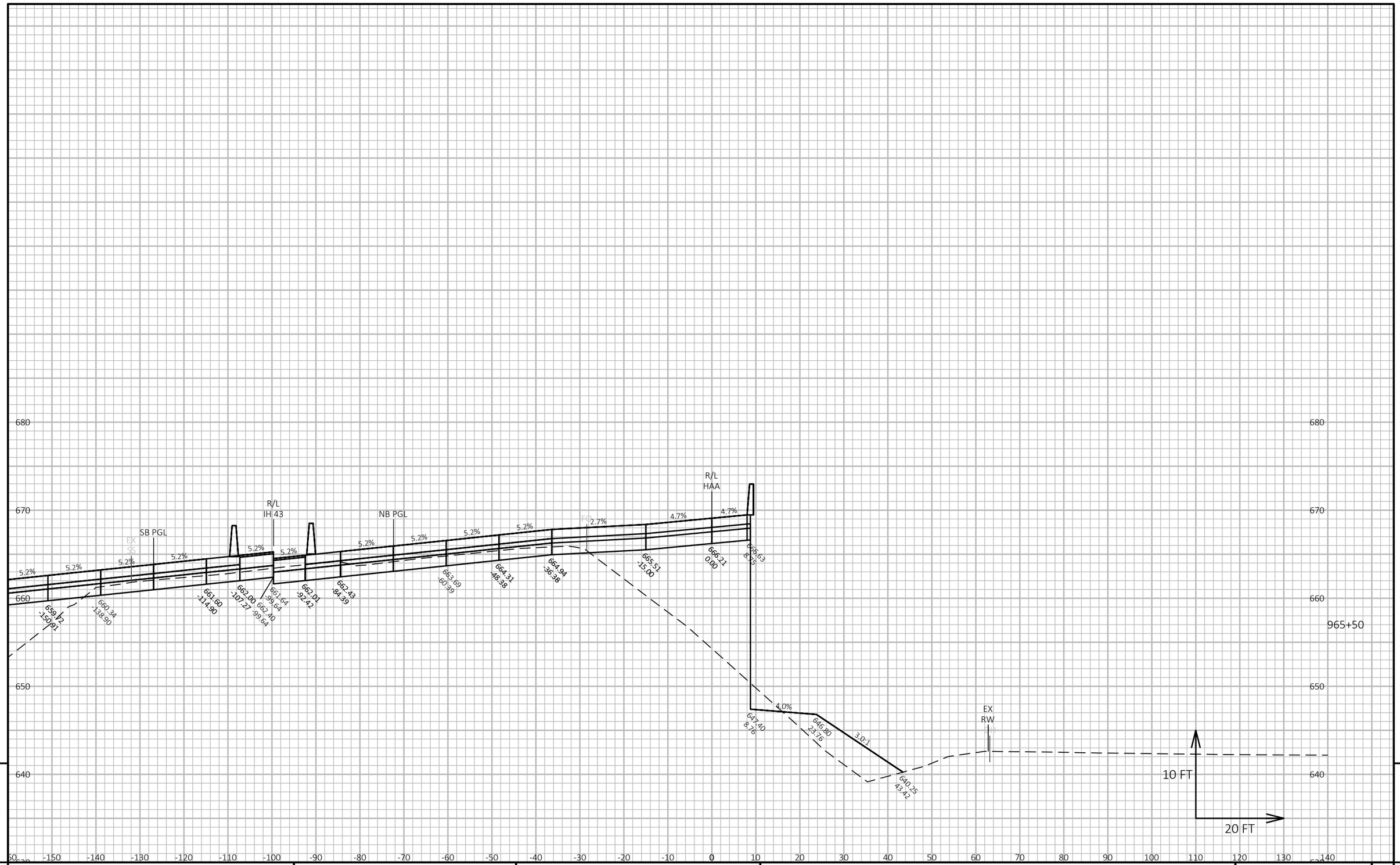
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 04

PLOT DATE : 2/11/2020 1:44 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_550

WISDOT/CADDS SHEET 49



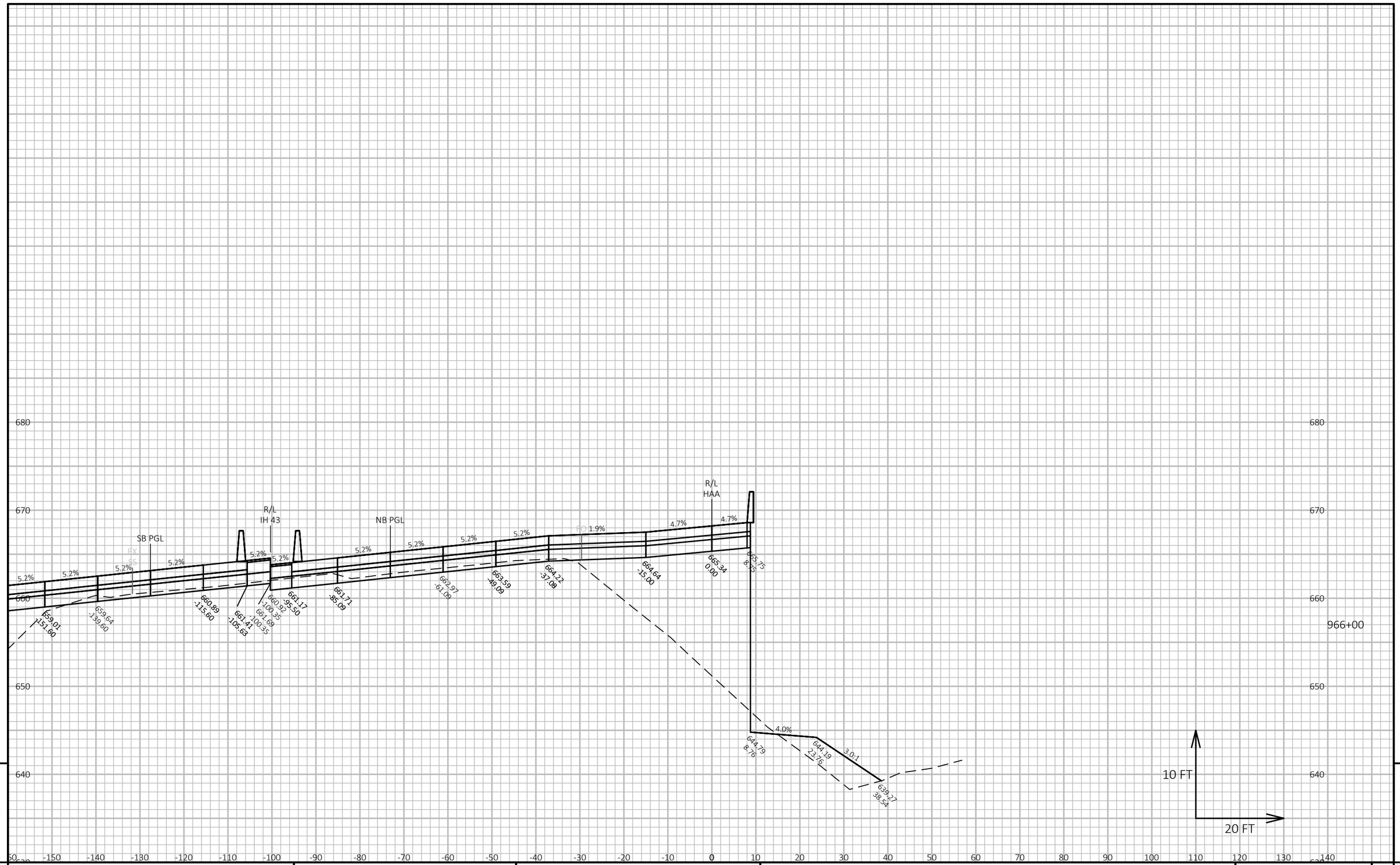
9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_551

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 05

PLOT DATE : 2/11/2020 1:44 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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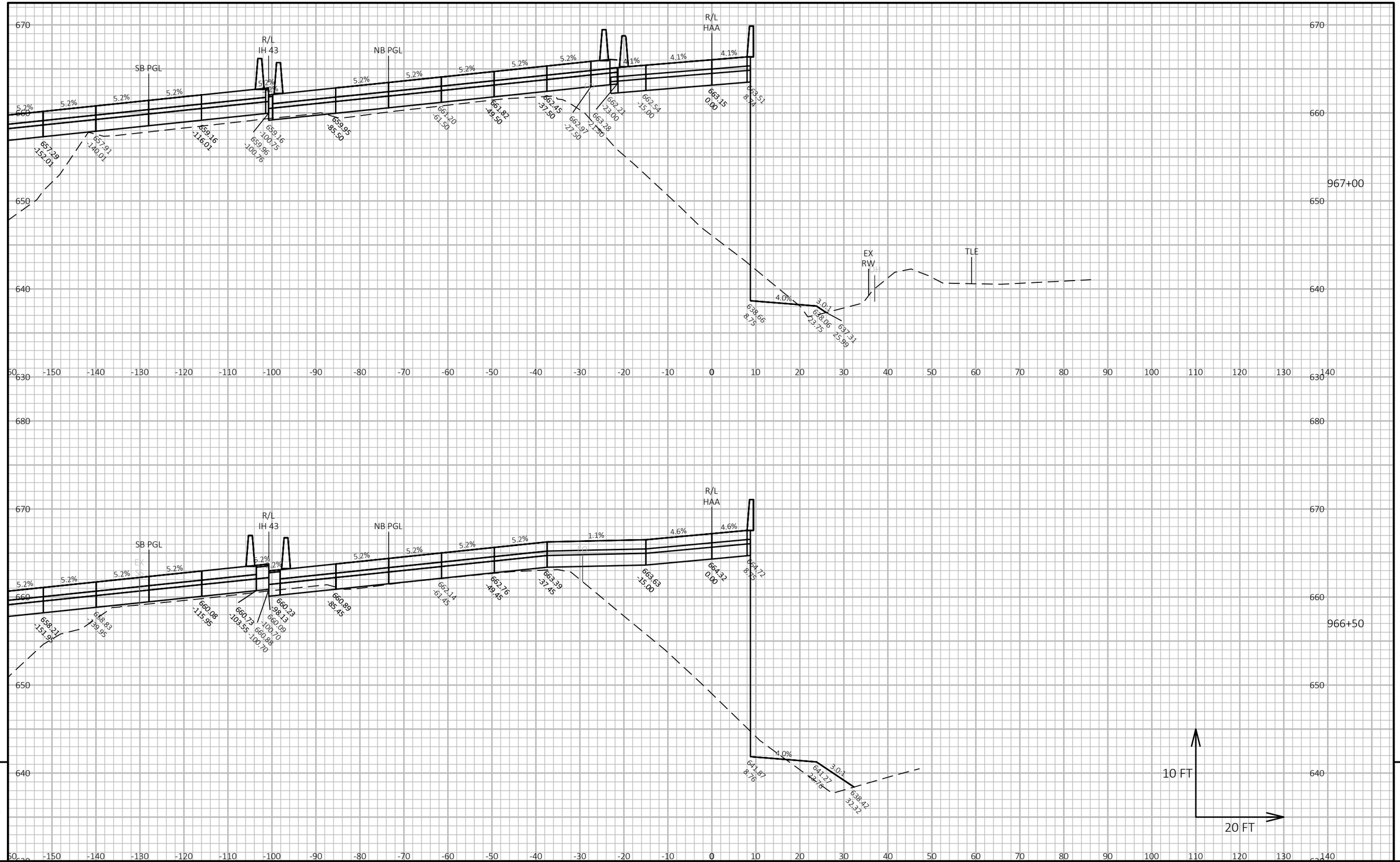
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_552

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 06

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 07

PLOT DATE : 2/11/2020 1:45 PM

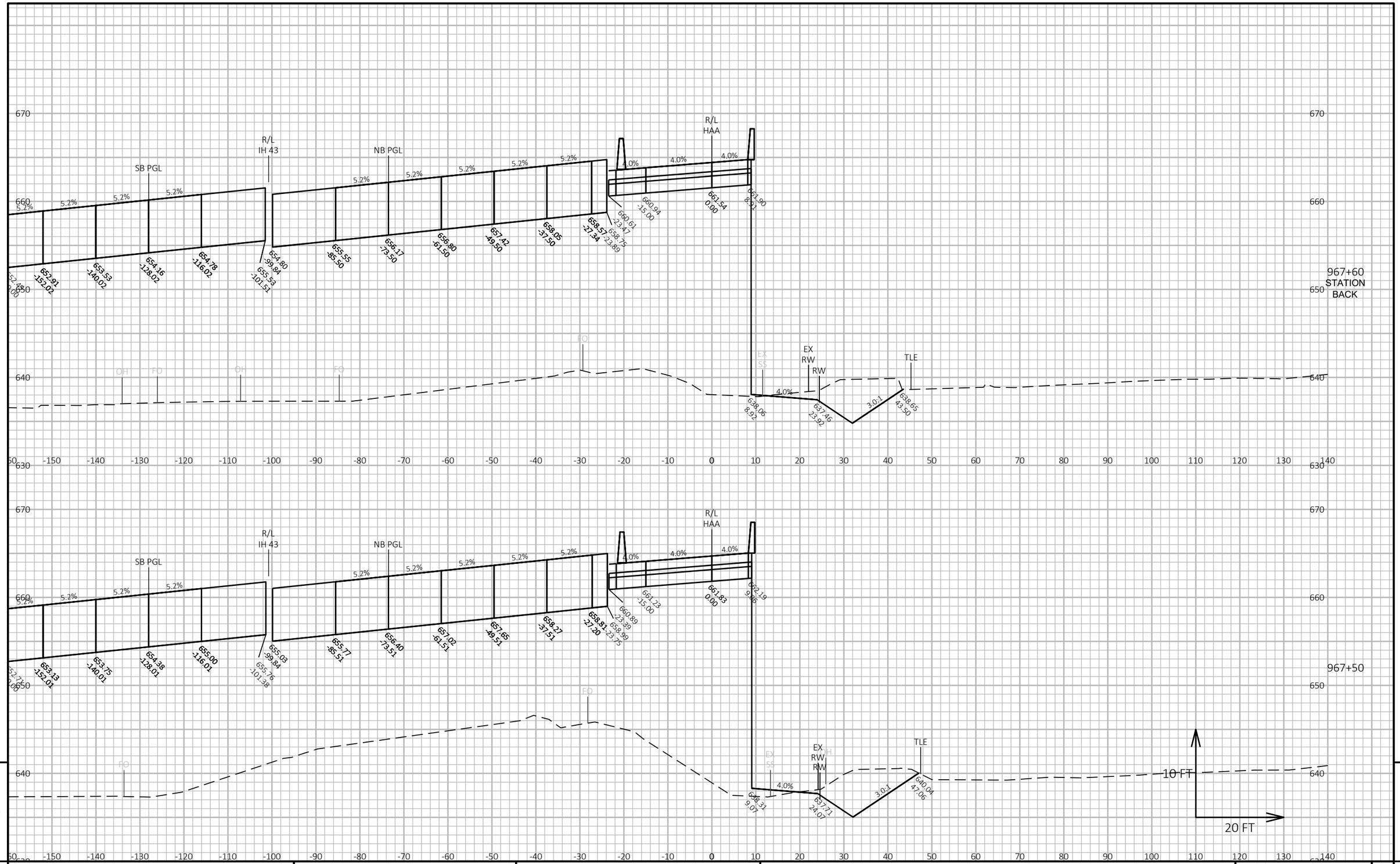
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_553

WISDOT/CADDS SHEET 49



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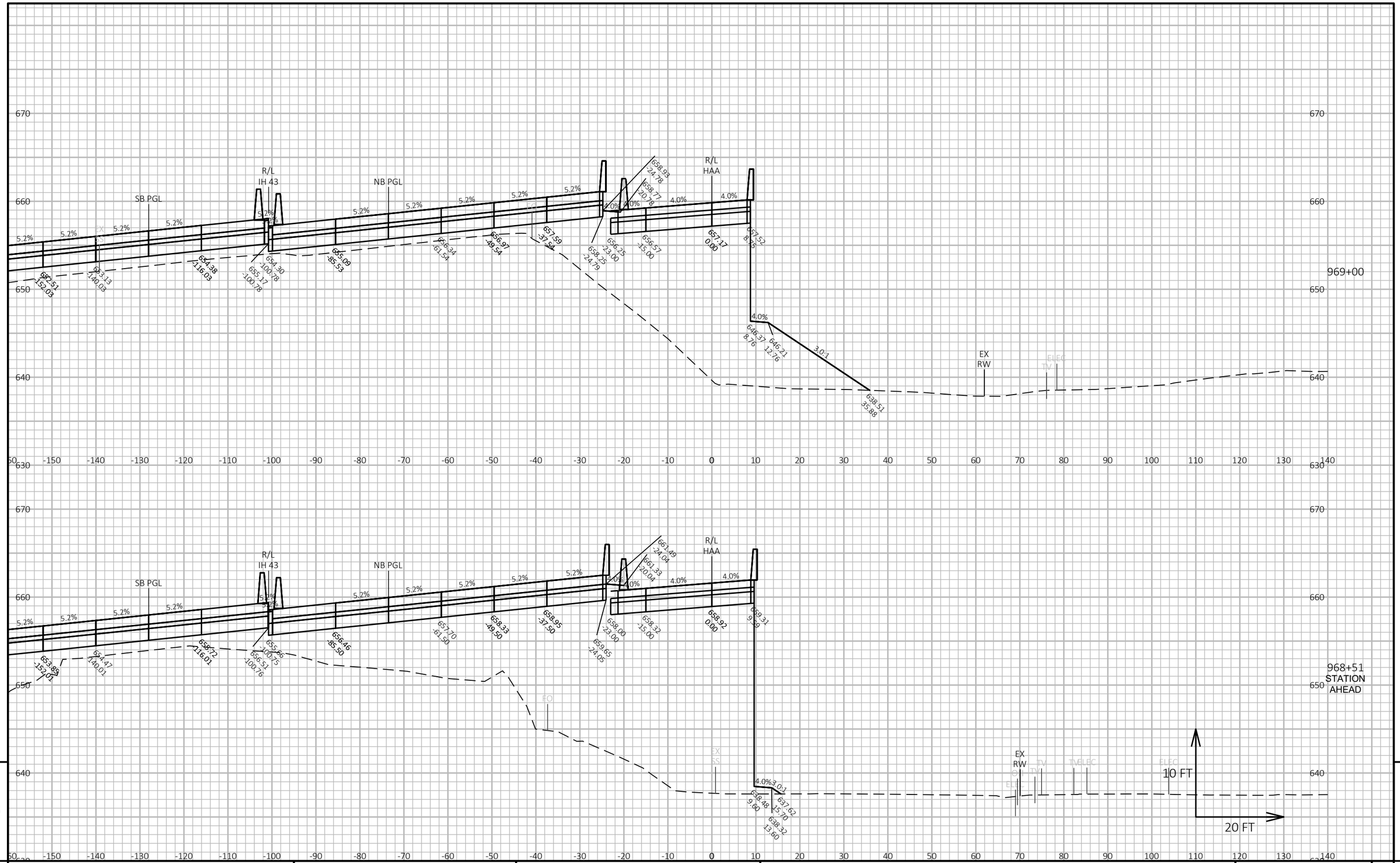
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_554

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 08

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_555

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 09

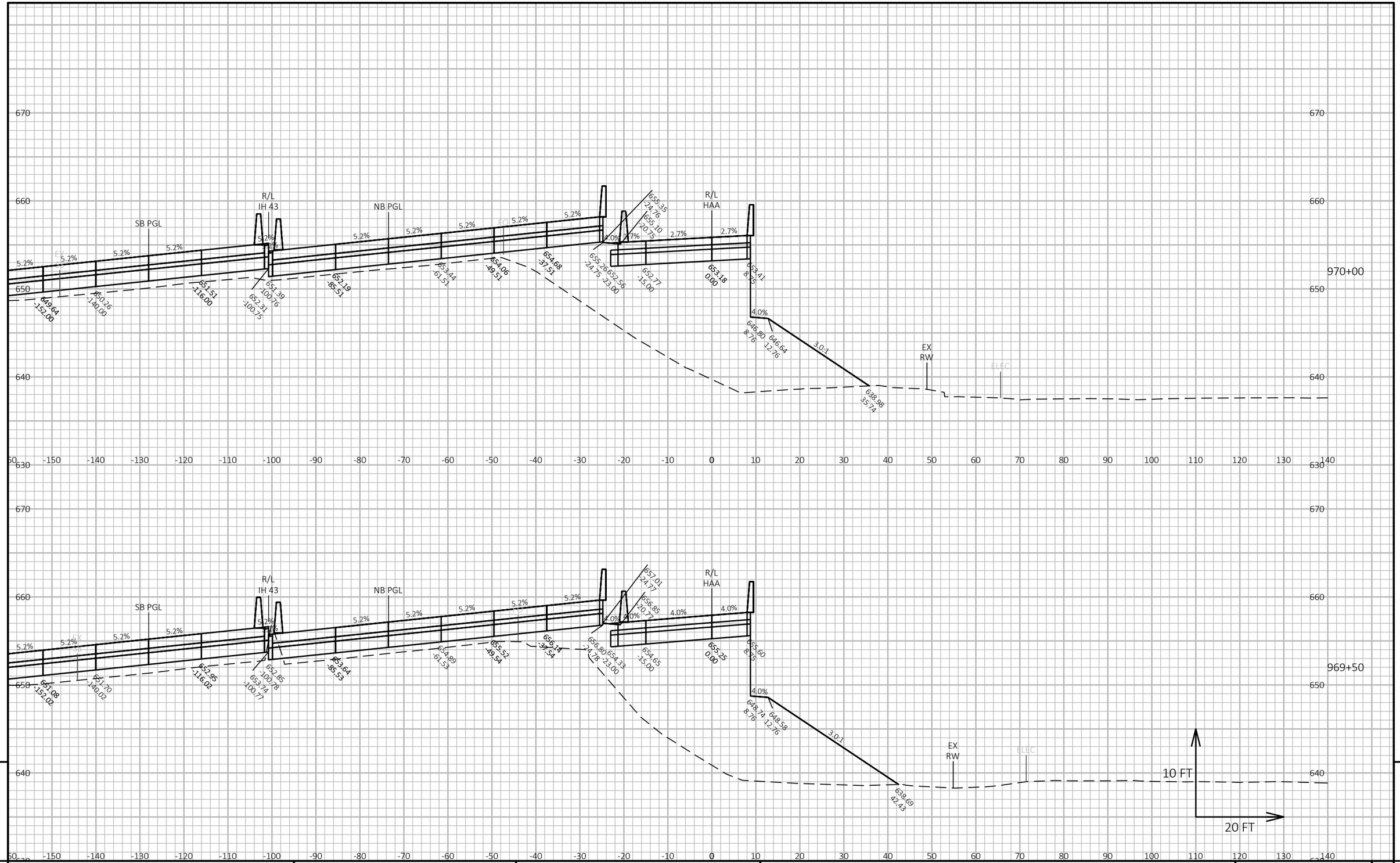
PLOT DATE : 2/11/2020 1:45 PM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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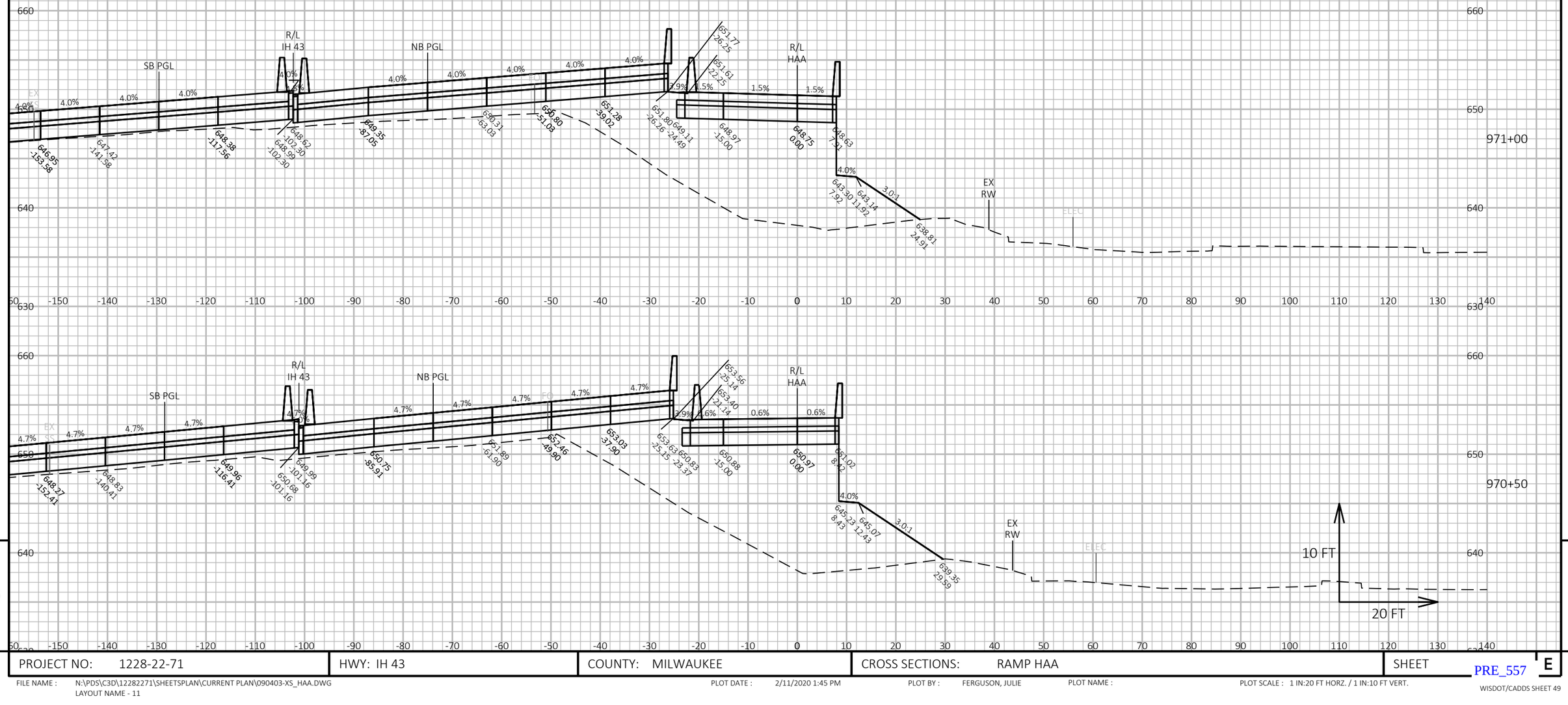
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 10

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_556

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 11

PLOT DATE : 2/11/2020 1:45 PM

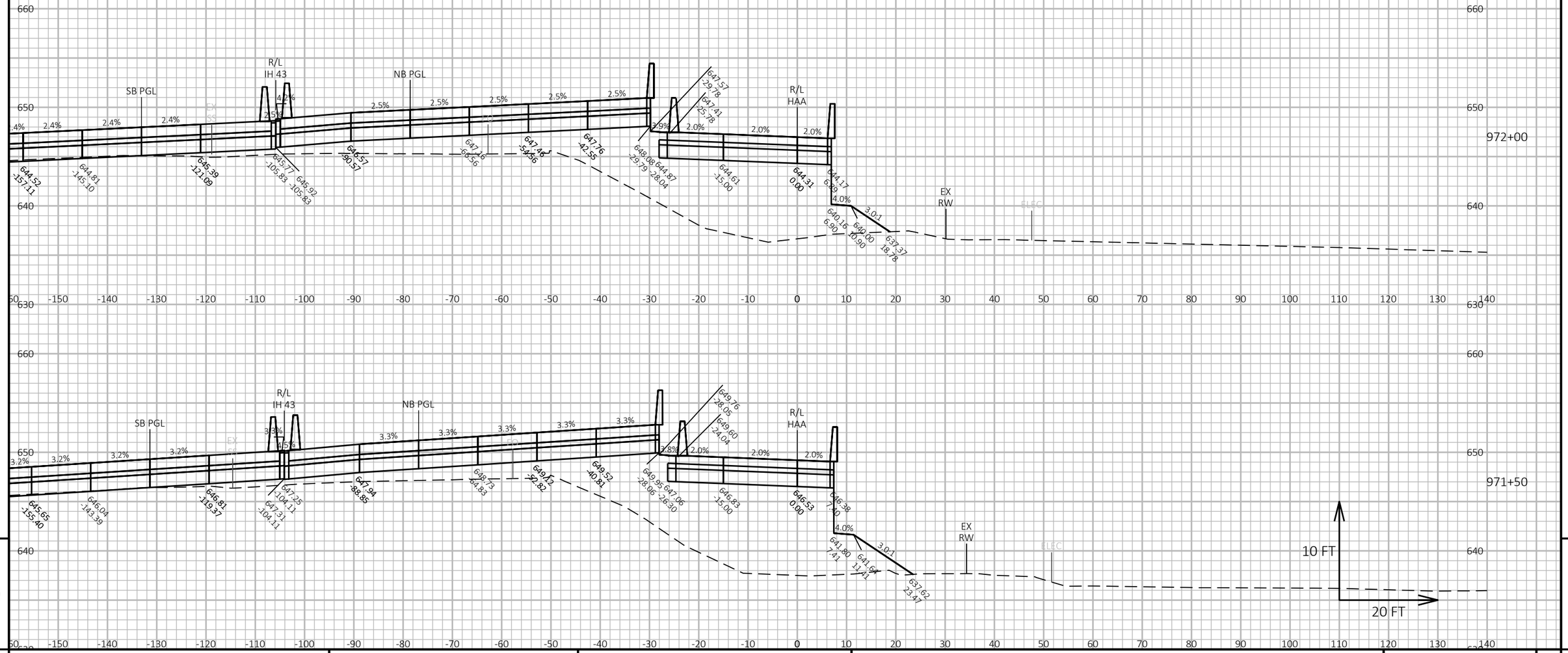
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_557

WISDOT/CADDS SHEET 49



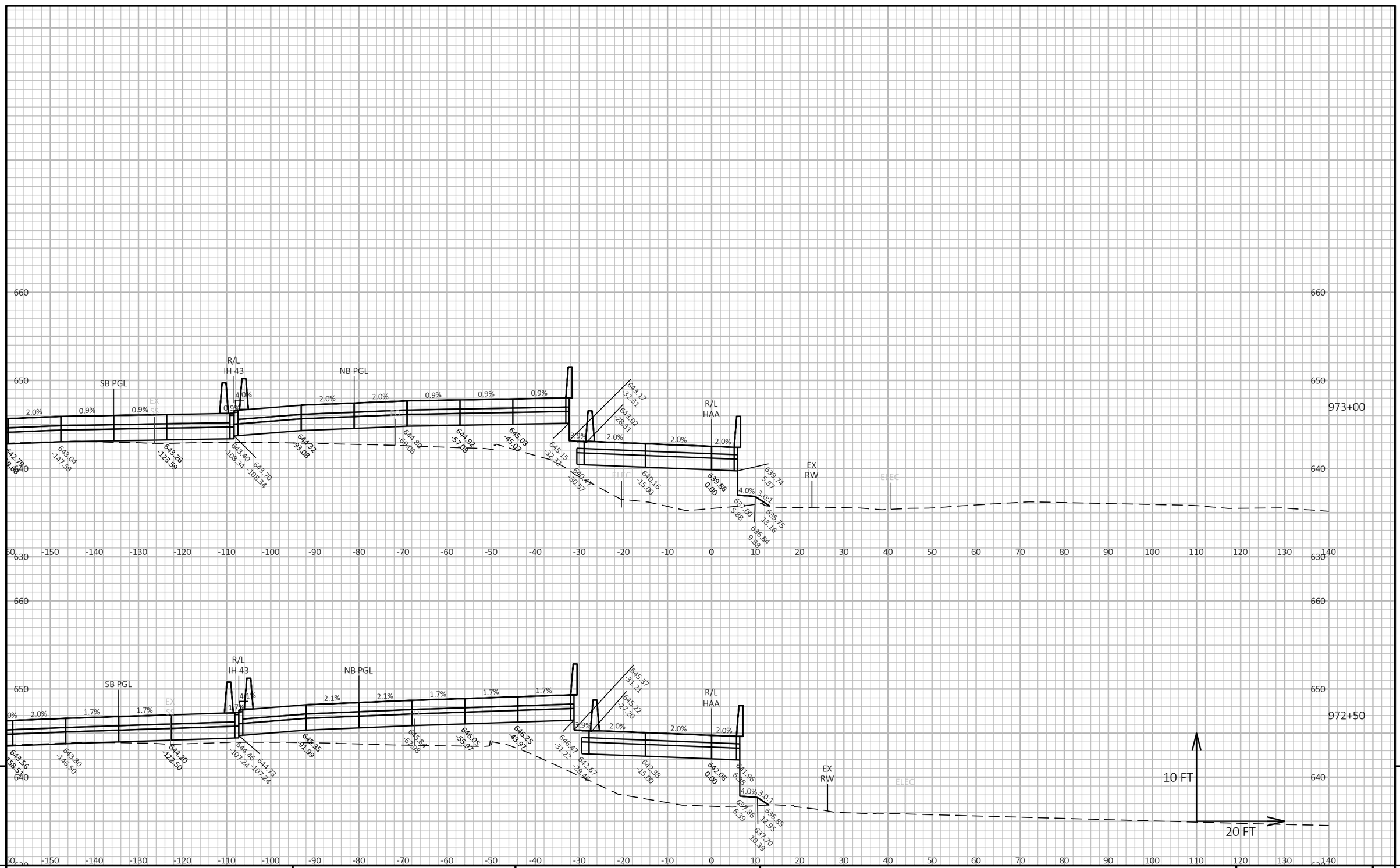
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_558

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 12

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



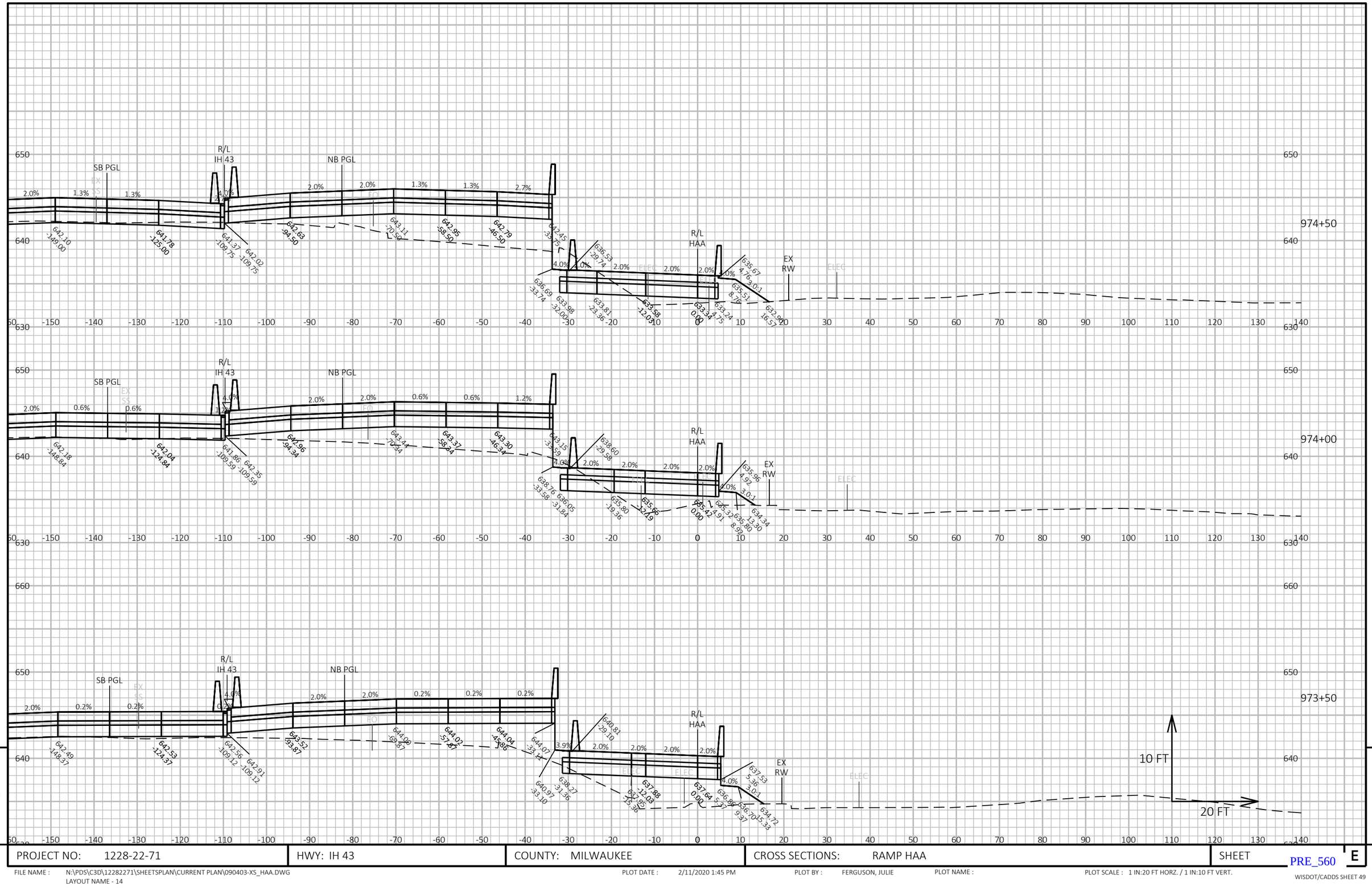
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 13

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_559

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 14

PLOT DATE : 2/11/2020 1:45 PM

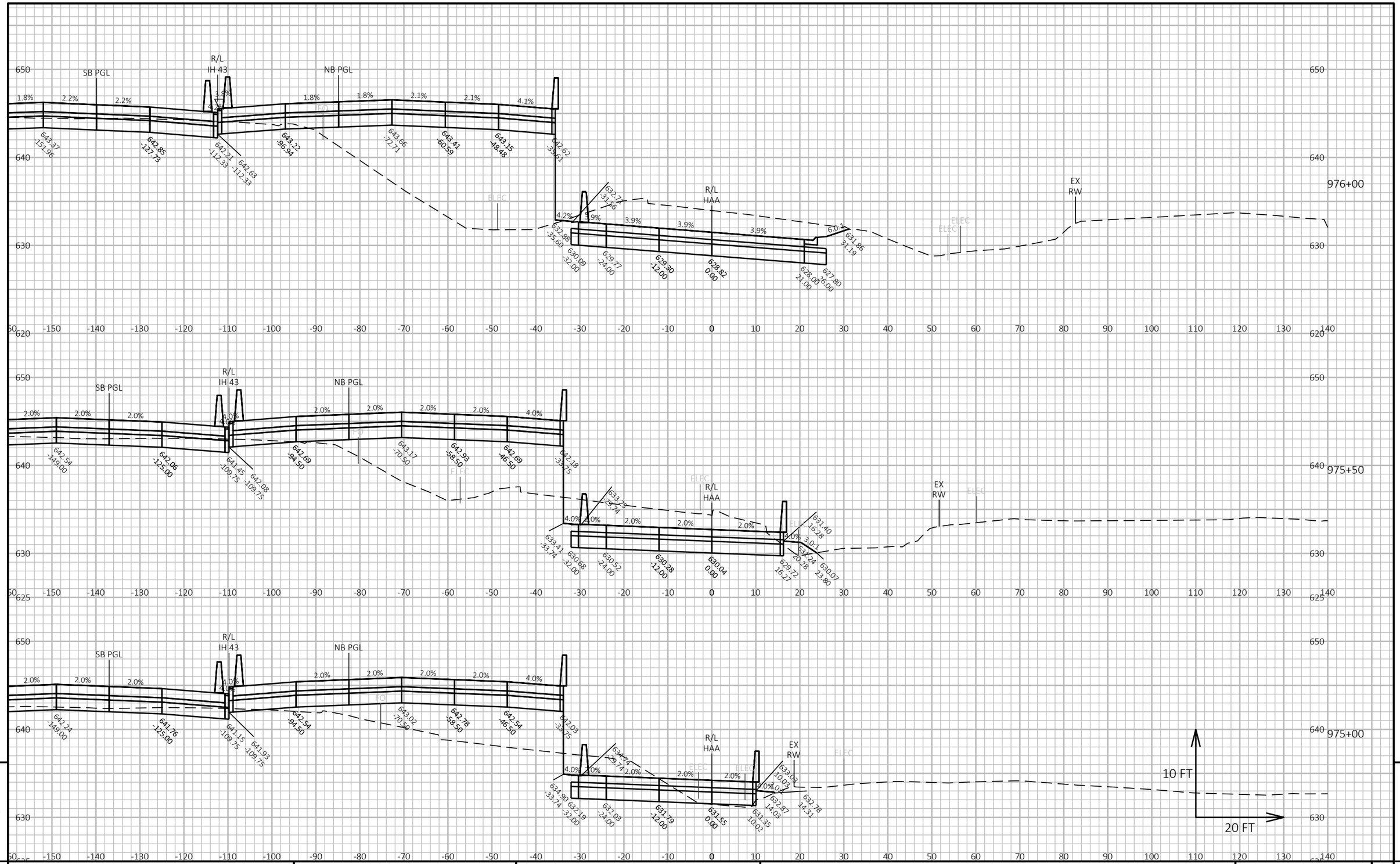
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_560

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 15

PLOT DATE : 2/11/2020 1:45 PM

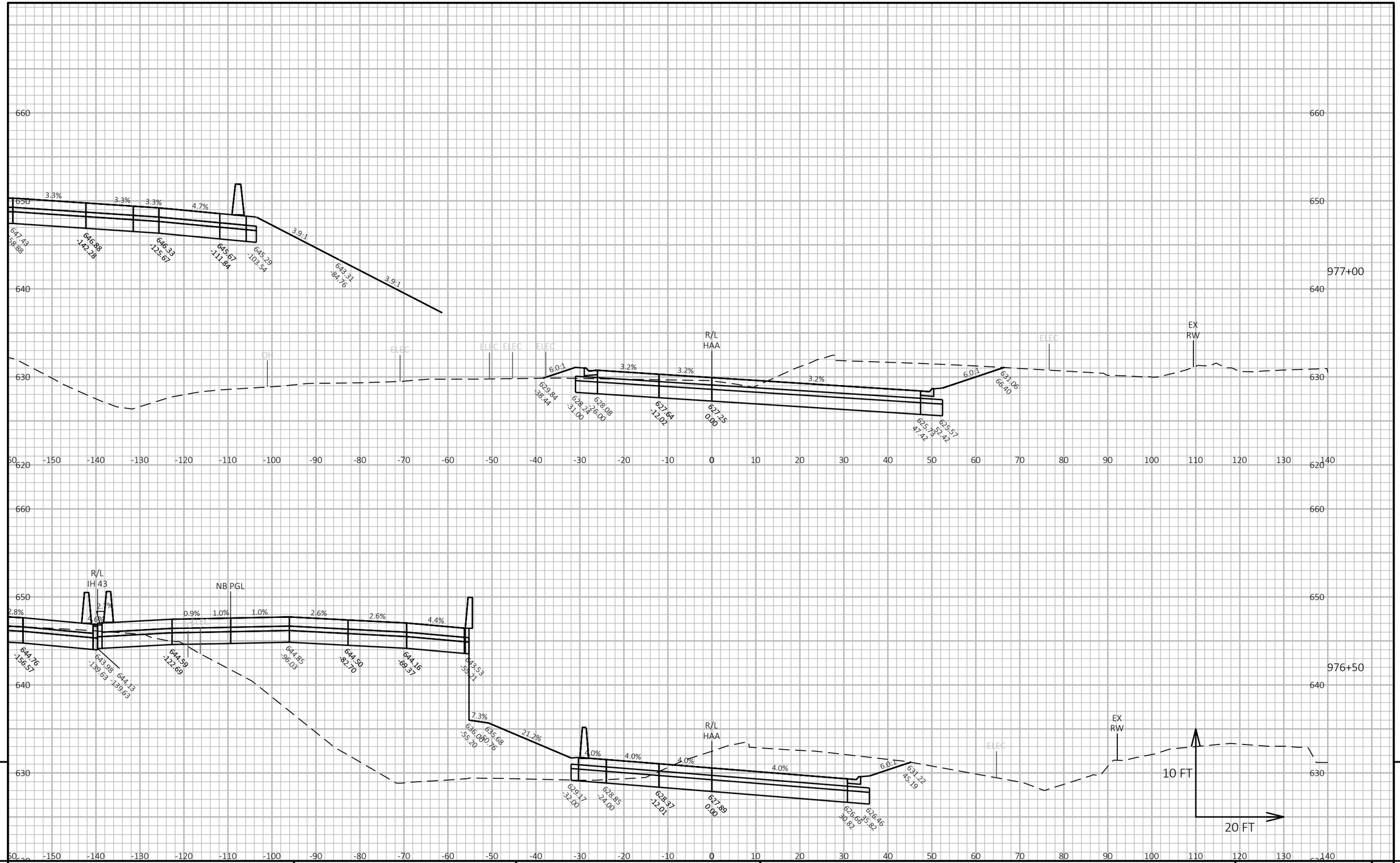
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_561

WISDOT/CADDS SHEET 49



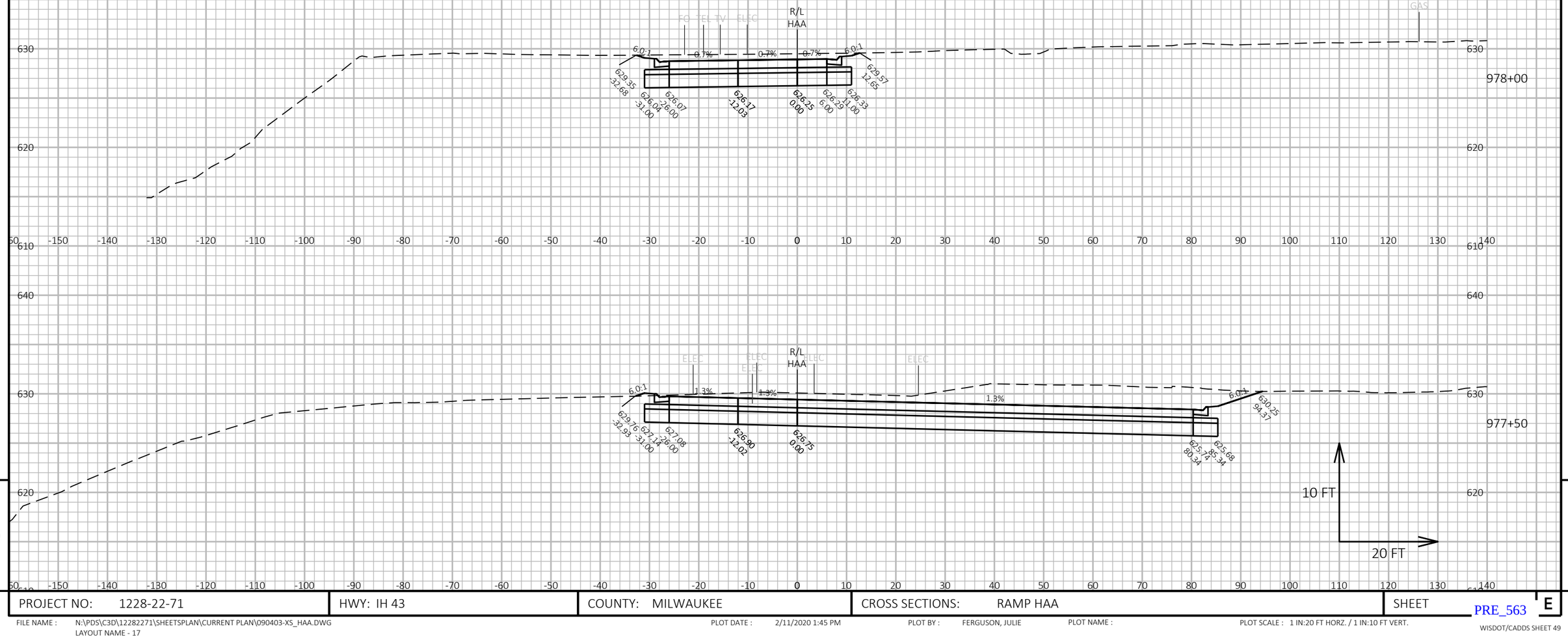
9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 16

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_562

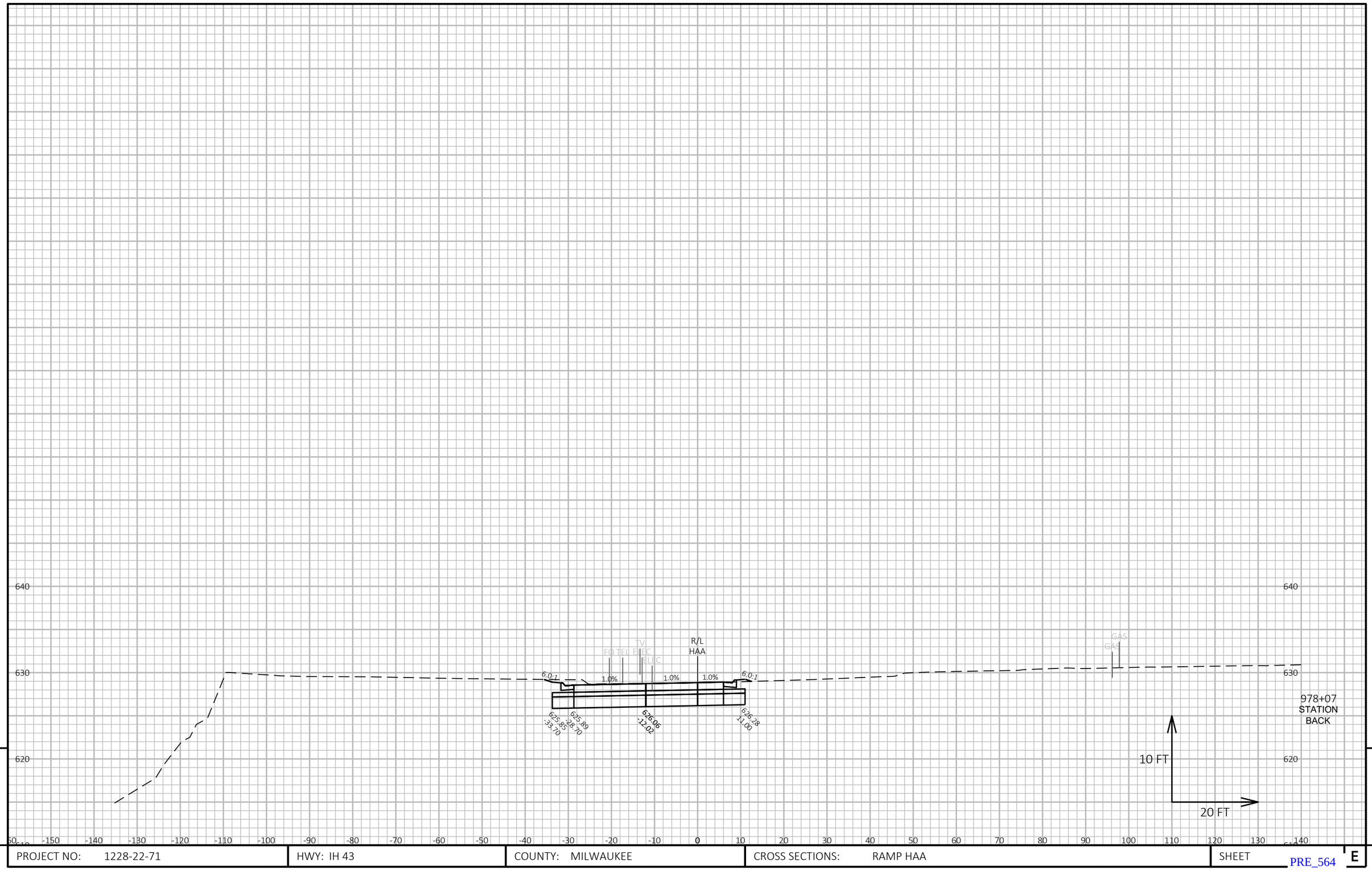


PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 17

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_563



9

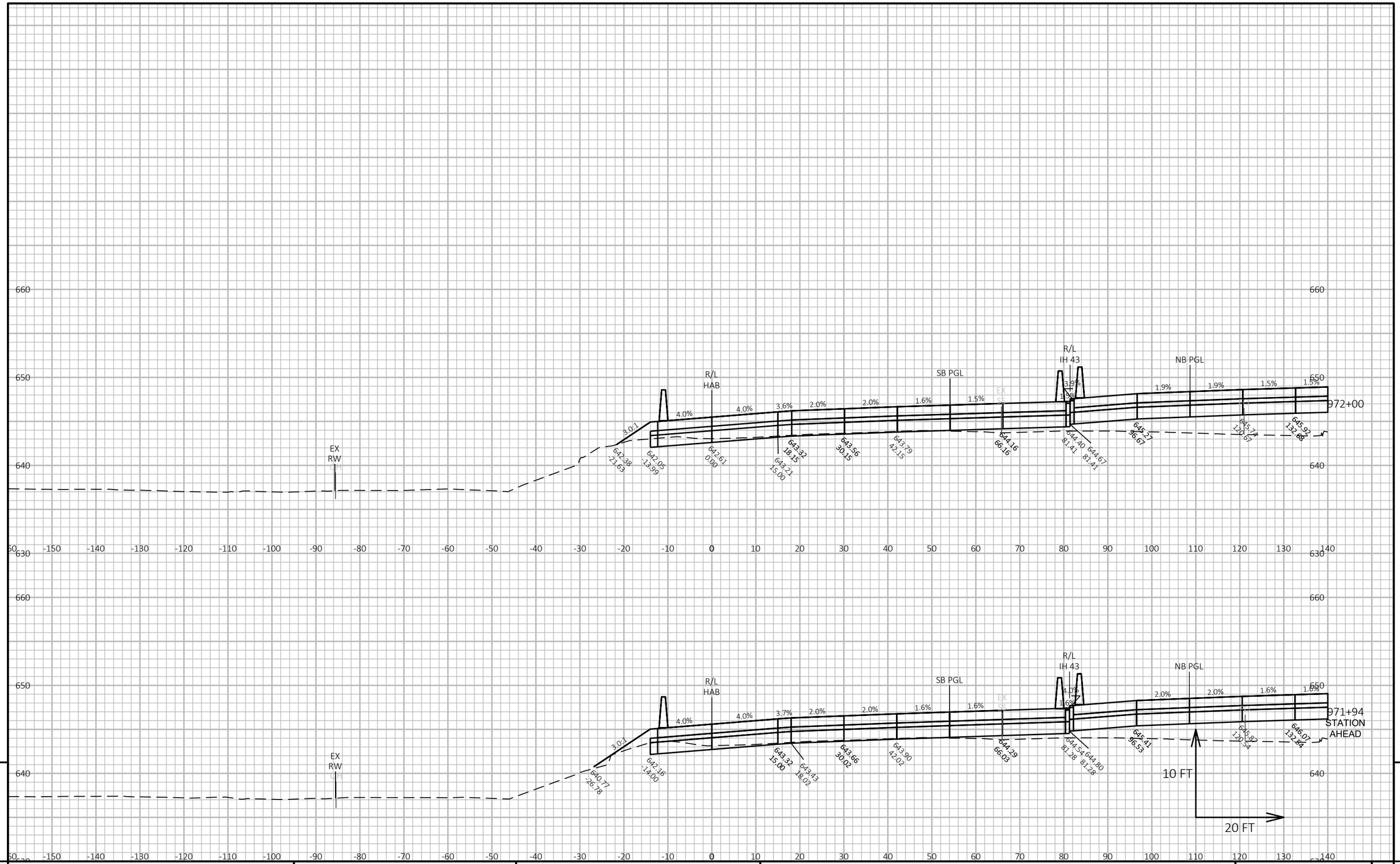
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PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAA	SHEET E

PRE_564

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090403-XS_HAA.DWG
LAYOUT NAME - 18

PLOT DATE : 2/11/2020 1:45 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9 9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAB	SHEET E

PRE_565

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090404-XS_HAB.DWG
LAYOUT NAME - 01

PLOT DATE : 2/11/2020 1:02 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090404-XS_HAB.DWG
LAYOUT NAME - 02

PLOT DATE : 2/11/2020 1:02 PM

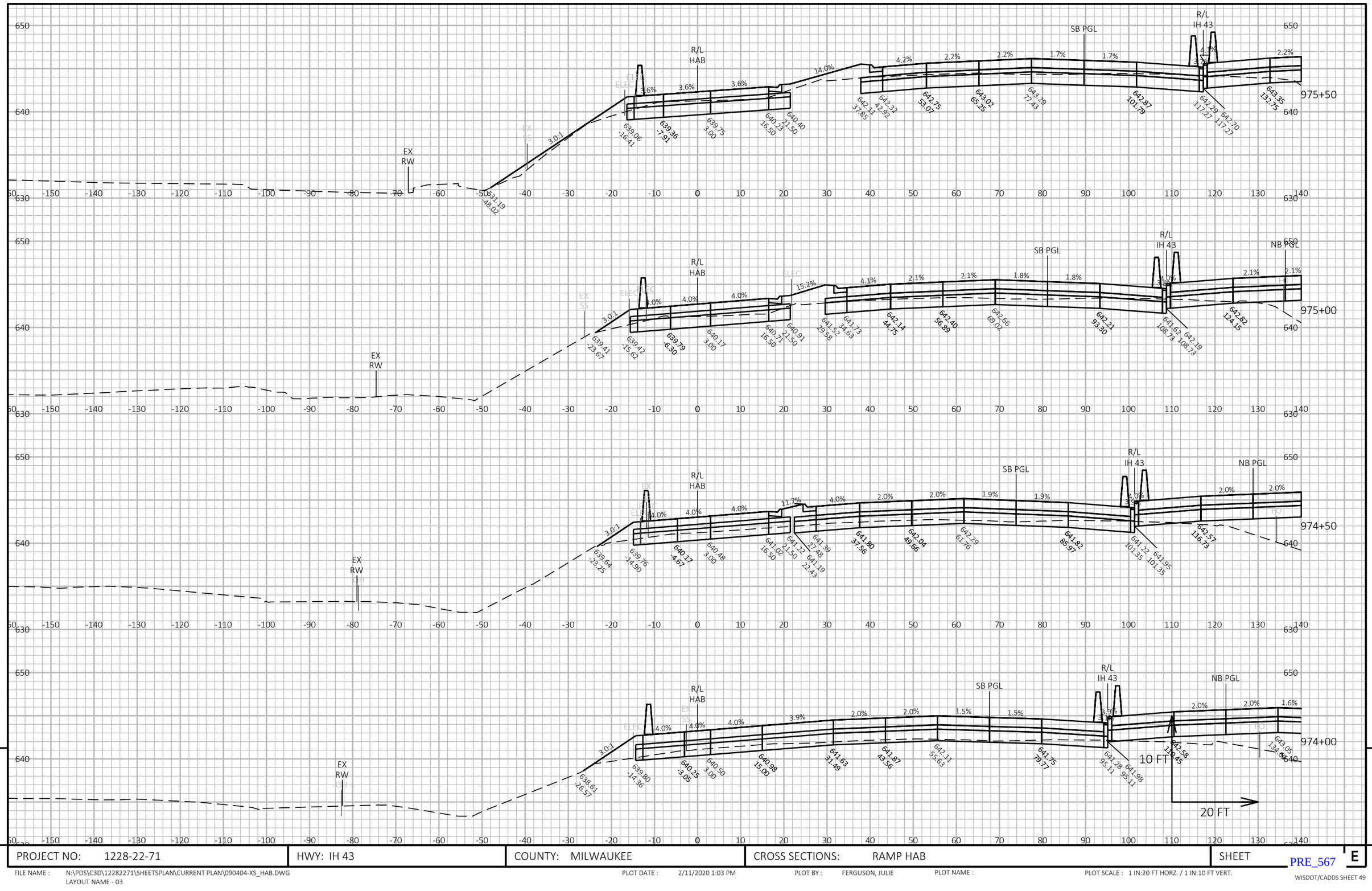
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_566

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090404-XS_HAB.DWG
LAYOUT NAME - 03

PLOT DATE : 2/11/2020 1:03 PM

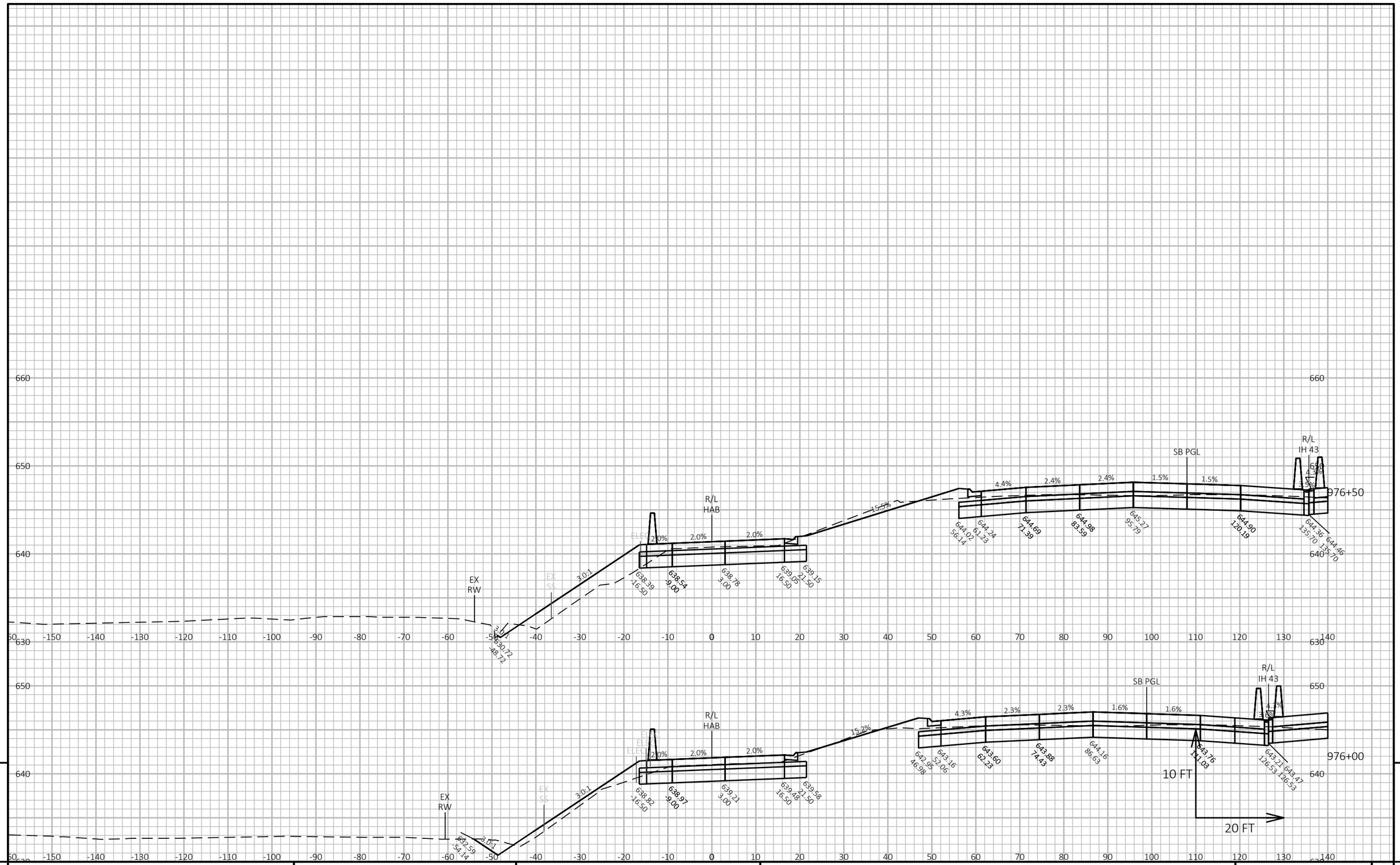
PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_567

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAB	SHEET PRE_568 E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090404-XS_HAB.DWG
LAYOUT NAME - 04

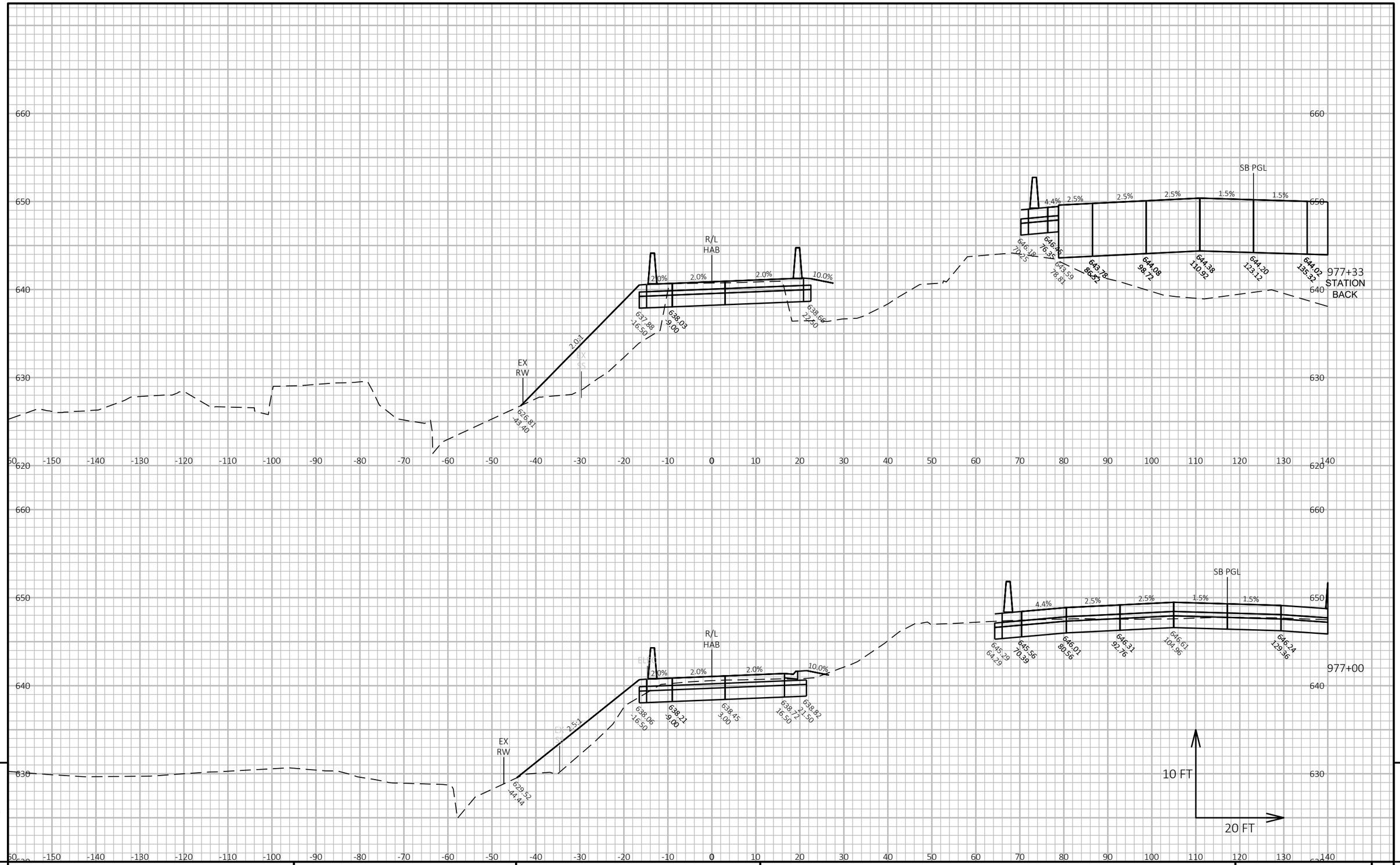
PLOT DATE : 2/11/2020 1:03 PM

PLOT BY : FERGUSON, JULIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: RAMP HAB	SHEET E

FILE NAME : N:\PDS\C3D\12282271\SHEETSPLAN\CURRENT PLAN\090404-XS_HAB.DWG
LAYOUT NAME - 05

PLOT DATE : 2/11/2020 1:03 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_569

WISDOT/CADDS SHEET 49

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

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

Notes

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

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove