PROJECT ID: **1360-13-70**

COUNTY: **MILWAUKEE COUNTY**

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			W. SILVER SPRING DR.	76TH ST. (STH 181)
A.A.D.T.	2022	=	24,100	28,800
A.A.D.T.	2042	=	26,400	31,600
D.H.V.		=	-	-
D.D.		=	59/41	-
T.		=	7.3%	-
DESIGN SPEED		=	45 MPH	40 MPH
ESALS		=	-	-

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- 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

FOND DU LAC, CITY OF MILWAUKEE

W. SILVER SPRING DR. AND 76TH ST. BRIDGES

STH 145
MILWAUKEE COUNTY

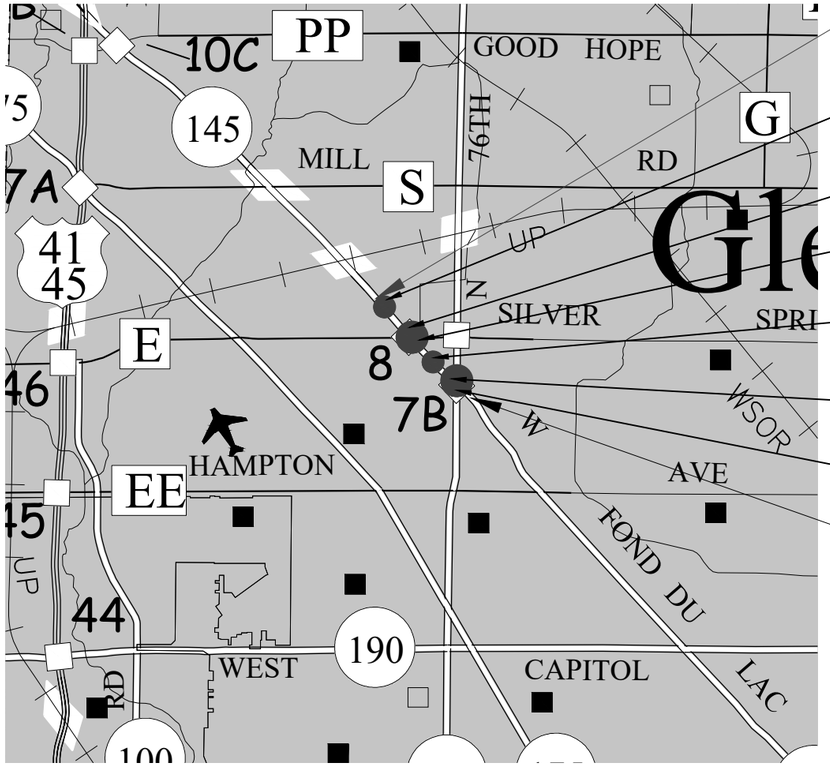
STATE PROJECT NUMBER
1360-13-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1360-13-70		

DESIGN STUDY REVIEW
2/22/2021

R-21-E

T-8-N



BEGIN PROJECT
STA 143+89.65
X: 577,607.623
Y: 330,241.646

STRUCTURE B-40-297 (84th ST. PED. BRIDGE)
NW OF SILVER SPRING DR. ON 84TH ST.

STRUCTURE B-40-254 (EB SILVER SPRING)
STA 57+54 - STA 60+15

STRUCTURE B-40-253 (EB SILVER SPRING)
STA 57+55 - STA 60+15

STRUCTURE B-40-298 (SHERIDAN AVE. PED. BRIDGE)
SW OF SILVER SPRING DR. ON W. SHERIDAN AVE.

STRUCTURE B-40-255 (SB 76TH ST.)
STA 50+58 - STA 53+47

STRUCTURE B-40-256 (NB 76TH ST.)
STA 50+10 - STA 53+30

END PROJECT
STA 182+48.01

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.731 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

benesch

Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20289.00

DATE: _____ _____
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GRAEF
Designer	BENESCH
Project Manager	VIDA SHAFFER
Regional Examiner	
Regional Supervisor	REEM SHAHIN

APPROVED FOR THE DEPARTMENT

DATE: _____ _____
(Signature)

E

2

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WIHTIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
2. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
3. ALL ELEVATIONS AND OFFSETS SHOWN IN THE PLAN SHALL BE VERIFIED IN THE FIELD.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
5. THE COST OF GRADING, CONSTRUCTING, MAINTAINING, AND REMOVING TEMPORARY ACCESS IS INCIDENTAL TO THE CONTRACT.
6. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY-IN
7. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING OR TURNING LANE.

EROSION CONTROL GENERAL NOTES

1. RE-TOPSOIL DISTURBED AREAS, AS DESIGNATED BY THE ENGINEER. SEED AND E-MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.
2. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.
3. QUANTITIES FOR EROSION CONTROL ITEMS HAVE BEEN INCLUDED IN THE PROJECT, BUT MAY NOT BE REPRESENTED ON THE PLAN. THE LOCATIONS AND TYPE OF EROSION CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEMS IS NO LONGER REQUIRED.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08 0.22	0.16 0.30	0.22 0.38	0.12 0.26	0.20 0.34	0.27 0.44	0.15 0.30	0.24 0.37	0.33 0.50	0.19 0.34	0.28 0.41	0.38 0.56
MEDIAN STRIP TURF	0.19 0.24	0.20 0.26	0.24 0.30	0.19 0.25	0.22 0.28	0.26 0.33	0.20 0.26	0.23 0.30	0.30 0.37	0.20 0.27	0.25 0.32	0.30 0.40
SIDE SLOPE TURF	0.25 0.34	0.27 0.36	0.25 0.32	0.30		0.27 0.34			0.28 0.36			0.30 0.38
PAVEMENT:												
ASPHALT	0.70 - 0.95											
CONCRETE	0.80 - 0.95											
BRICK	0.70 -0.80											
DRIVES, WALKS	0.75 - 0.85											
ROOFS	0.75 - 0.95											
GRAVEL ROADS, SHOULDERS	0.40 - 0.60											

TOTAL PROJECT AREA = x.xx ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = X.XX ACRES

DIGGERS HOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

OTHER AGENCIES

WISDOT CONTACT

Southeast Region
Vida Shaffer
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (414) 333-9116
EMAIL: VIDA.SHAFFER@dot.wi.gov

DESIGN CONTACT

Alfred Benesch & Co
Bill Zippel
1300 W Canal St, Suite 150
Milwaukee, WI 53233
PHONE: (414) 308-1310
wzippel@benesch.com

DNR CONTACT

DNR - Southeast Region
Kristina Betzold
2300 N Martin Luther King Jr Dr
Milwaukee, WI 53212
PHONE: (414) 507-4946
EMAIL: kristina.betzold@wisconsin.gov

UTILITIES

COMMUNICATIONS

AT&T LOCAL NETWORK
DALE DEFEVER
39869 LINN ST
CANTON, MI 48147
PHONE: (586) 242-2671
EMAIL: DD2579@ATT.COM

COMMUNICATIONS

AT&T WISCONSIN
JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7669
EMAIL: JB5175@ATT.COM

ELECTRICITY

CITY OF MILWAUKEE - ELECTRICITY
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

SEWER

CITY OF MILWAUKEE - SEWER
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

WATER

CITY OF MILWAUKEE - WATER
SAMIR AMIN
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-3301
EMAIL: SAMIN@MILWAUKEE.GOV

COMMUNICATIONS

EVERSTREAM
TBD
324 E Wisconsin Ave, Suite 730
Milwaukee, WI 53202
PHONE: (414) 409 - 1709
EMAIL: WI-Relocations@everstream.net

SEWER

MILWAUKEE METRO SEWERAGE DISTRICT
MICKI KLAPPA-SULLIVAN
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
MKLAPPASULLIVAN@MMSD.COM

COMMUNICATIONS

PAETEC COMMUNICATIONS
ERIC BECKER
314 N DANZ AVE
GREEN BAY, WI 54302-3526
PHONE: (920) 461-9825
EMAIL: ERICBECKER@WINDSTREAM.COM

COMMUNICATIONS

SPECTRUM
BEAU ABUYA
1320 N DR MARTIN LUTHER KIND JR DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
EMAIL: WIS.ENGINEERING@CHARTER.COM

COMMUNICATIONS

VERIZON BUSINESS
RJ Cicatello Jr.
15725 West Ryerson Road
New Berlin, WI 53151
PHONE: (262) 782 - 9836
EMAIL: randy.cicatello@verizon.com

ELECTRICITY

WISDOT - STREET LIGHTING
ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
ERICPEREA@DOT.WI.GOV

ELECTRICITY

WE ENERGIES - ELECTRICITY
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

GAS/PETROLEUM

WE ENERGIES - GAS
WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 221-2738
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
PLAN DETAILS
CURB RAMP DETAILS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT PLAN

LIST OF STANDARD ABBREVIATIONS

ABUT	ABUTMENT	HYD	HYDRANT	RD	ROAD
AC	ACRE	IN DIA	INCH DIAMETER	RDWY	ROADWAY
AGG	AGGREGATE	INL	INLET	SALV	SALVAGED
AADT	ANNUAL AVERAGE DAILY TRAFFIC	ID	INSIDE DIAMETER	SSS	SANITARY AND STORM SEWER
ASPH	ASPHALT	INV	INVERT	SAN S	SANITARY SEWER
AVG	AVERAGE	IP	IRON PIPE	SEC	SECTION
ADT	AVERAGE DAILY TRAFFIC	JT	JOINT	SHLDR	SHOULDER
BF	BACK FACE	JCT	JUNCTION	SW	SIDEWALK
BL	BASE LINE	LT	LEFT	S	SOUTH
BM	BENCH MARK	L	LENGTH OF CURVE	SB	SOUTHBOUND
CB	CATCH BASIN	LHF	LEFT-HAND FORWARD	SP	SPECIAL
C/L	CENTERLINE	LF	LINEAR FOOT	SPECS	SPECIFICATIONS
CC	CENTER TO CENTER	L	LITER	SQ	SQUARE
CE	COMMERCIAL ENTRANCE	LS	LUMP SUM	SF	SQUARE FEET
CONC	CONCRETE	MH	MANHOLE	SY	SQUARE YARD
CO	COUNTY	MB	MESSAGE BOARD	STD	STANDARD
CTH	COUNTY TRUNK HIGHWAY	MLB	MAILBOX	SDD	STANDARD DETAIL DRAWINGS
CY	CUBIC YARD	ML	MATCH LINE	STH	STATE TRUNK HIGHWAYS
CULV	CULVERT	NC	NORMAL CROWN	STA	STATION
C&G	CURB AND GUTTER	N	NORTH	SS	STORM SEWER
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	STR	STRUCTURE OR STRUCTURAL
DIA	DIAMETER	NB	NORTHBOUND	SL	SURVEY LINE
DD	DIRECTIONAL DISTRIBUTION	NO	NUMBER	TEL	TELEPHONE
E	EAST	OD	OUTSIDE DIAMETER	TEMP	TEMPORARY
X	EAST GRID COORDINATE	PAVT	PAVEMENT	TLE	TEMPORARY LIMITED EASEMENT
EB	EASTBOUND	PERM	PERMANENT	T	TON
ELEC	ELECTRIC	PLE	PERMANENT LIMITED EASEMENT	TC	TOP OF CURB
ELEV	ELEVATION	PT	POINT	T	TRUCKS (PERCENT OF)
ESALS	EQUIVALENT SINGLE AXLE LOADS	PVC	POLYVINYL CHLORIDE	TYP	TYPICAL
EXC	EXCAVATION	PCC	PORTLAND CEMENT CONCRETE	UG	UNDERGROUND
EBS	EXCAVATION BELOW SUBGRADE	PE	PRIVATE ENTRANCE	USH	UNITED STATES HIGHWAY
EXIST	EXISTING	PROJ	PROJECT	VAR	VARIABLE
FF	FACE TO FACE	PL	PROPERTY LINE	VERT	VERTICAL
FE	FIELD ENTRANCE	R	RADIUS	W	WATER
FG	FINISHED GRADE	R/L	REFERENCE LINE	WM	WATER MAIN
FL	FLOW LINE	RCCP	REINFORCED CONCRETE CULVERT PIPE	WV	WATER VALVE
FT	FOOT	REQD	REQUIRED	W	WEST
FTMS	FREEWAY TRAFFIC MANAGEMENT SYSTEM	RT	RIGHT	WB	WESTBOUND
HES	HIGH EARLY STRENGTH	RHF	RIGHT HAND FORWARD	YD	YARD
CWT	HUNDREDWEIGHT	R/W	RIGHT-OF-WAY		

2

2

N

EP: 77+83.27

PC: 73+13.45

PT: 70+92.29

PC: 68+20.03

EP: 67+93.74

RL 76th ST

END CONSTRUCTION: 1360-13-70
STA 55+00
X: 580200.1698
Y: 327106.8489

END CONSTRUCTION: 1360-13-70
STA 60+15.00
X: 578697.1386
Y: 329099.1613

76TH ST.

W. SILVER SPRING DR.

W. SHERIDAN AVE.

W. LEON TERRACE

84TH ST.

B-40-0297

B-40-0254

B-40-0256

RL STH 145

END PROJECT
STA 182+48.01

140

150 STH 145/W. FOND DU LAC FREEWAY

160 STH 145/W. FOND DU LAC FREEWAY

170

180

190

B-40-0253

B-40-0298

B-40-0255

BEGIN PROJECT
STA 143+89.65

W. FOND DU LAC AVE.

PI: 48+85.21

RL SILVER SPRING DR

W. SHERIDAN AVE.

US HWY 41

BEGIN CONSTRUCTION: 1360-13-70
STA 57+54.00
X: 578435.8159
Y: 329098.9268

BEGIN CONSTRUCTION: 1360-13-70
STA 48+00
X: 580186.1702
Y: 327106.9576

BP: 41+85.21

BP: 41+33.83

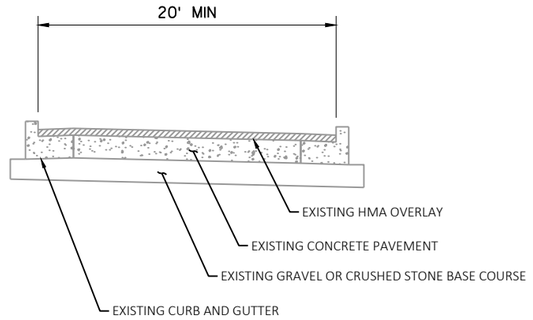
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\020201_PO.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:20 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

RL NB &
SB STH
145 ON
RAMP



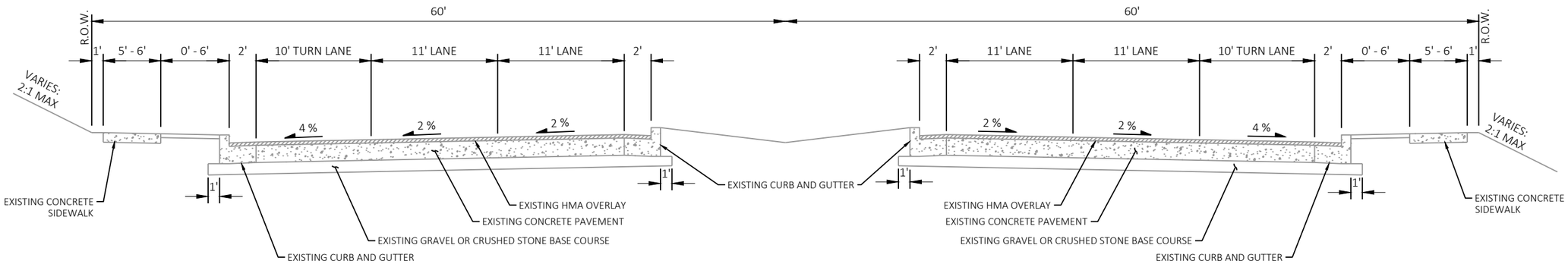
76TH ST. RAMP EXISTING TYPICAL SECTION

STA 1+44.06 - 2+78.53 NB
STA 1+82.09 - 2+86.77 SB

SB 76TH ST. PGL

RL 76TH ST.

NB 76TH ST. PGL



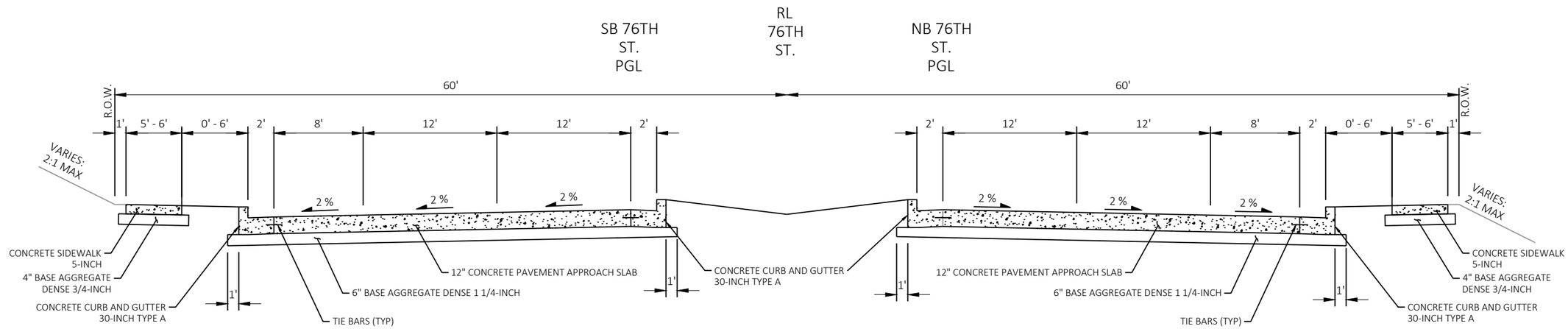
76TH STREET EXISTING TYPICAL SECTION

STA 48+50.00 - 55+00.00

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 4	E

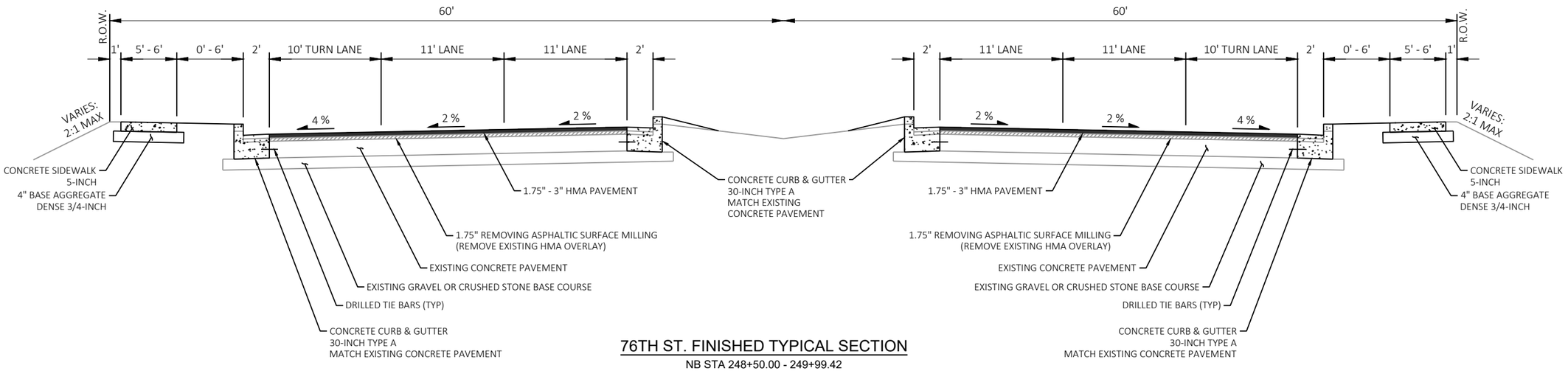
FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\020301_TS.DWG
LAYOUT NAME - 01-10ft
PLOT DATE : 2/19/2021 4:21 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



76TH ST. FINISHED TYPICAL SECTION

NB STA 249+99.42 - DECK
SB STA 150+43.17 - DECK
NB STA DECK - 253+44.10
SB STA DECK - 153+87.86



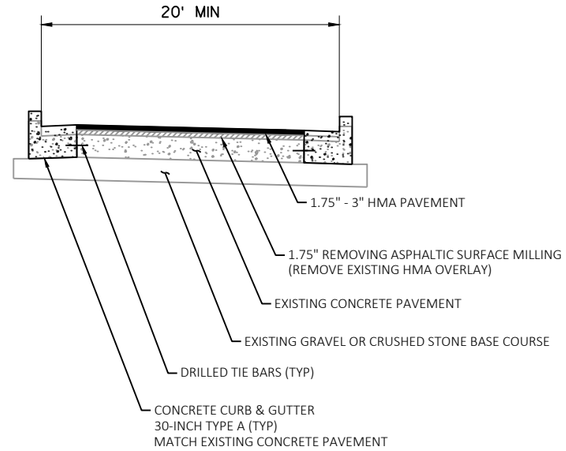
76TH ST. FINISHED TYPICAL SECTION

NB STA 248+50.00 - 249+99.42
SB STA 149+50.00 - 150+43.17
NB STA 253+44.10 - 254+78.53
SB STA 153+87.86 - 155+00.00

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYER	TYPE
76th ST OVERLAY	1.75" - 3"	1.75" UPPER 0-1.25" LOWER	4 HT 58-28 H HT 58-28 H

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E

RL NB &
SB STH
145 ON
RAMP



76TH ST. RAMP FINISHED TYPICAL SECTION

STA 1+44.06 - 2+78.53 NB
STA 1+82.09 - 2+86.77 SB

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYER	TYPE
RAMP OVERLAY	1.75" - 3"	1.75" UPPER 0-1.25" LOWER	4 HT 58-28 H HT 58-28 H

2

N

156+00

157+00

158+00

PT: 157+96.89

STH 145

BEGIN OVERLAY (WB)
STA 57+45.09
12' LT
MATCH EXISTING

END OVERLAY (WB)
STA 60+03.55
12' LT
MATCH EXISTING

INSTALL YIELD
PAVEMENT MARKINGS

YIELD

R1-2
36"X 31"

B-40-0254
(SEE STRUCTURE PLANS)

W. SILVER SPRING DR.

56+00

58+00

60+00

R/L SILVER SPRING DR.

159+00

B-40-0253
(SEE STRUCTURE PLANS)

BEGIN OVERLAY (EB)
STA 57+62.60
12' RT
MATCH EXISTING

END OVERLAY (EB)
STA 60+26.69
12' RT
MATCH EXISTING

STH 145

160+00

REMOVE FENCING TO
IMPROVE SIGHT DISTANCE

INSTALL YIELD
PAVEMENT MARKINGS

YIELD

R1-2
36"X31"

161+00

162+00

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 7	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\021201_PD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:21 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

CONCRETE SIDEWALK 5-INCH

CONCRETE CURB & GUTTER 30-INCH TYPE A

CONCRETE PAVEMENT APPROACH SLAB

BEGIN OVERLAY (SB)
STA 50+58.52
12' LT
MATCH EXISTING

76th ST. SB

B-40-0255
(SEE STRUCTURE PLANS)

10

EP: 10+35.00

EP: 12+92.59

PT: 179+12.67

179+00

180+00

181+00

END OVERLAY (WB)
STA 53+46.61
12' LT
MATCH EXISTING

CONCRETE PAVEMENT APPROACH SLAB

CONCRETE SIDEWALK 5-INCH

CONCRETE CURB & GUTTER 30-INCH TYPE A

49+00 50+00 51+00 52+00 53+00 54+00 55+00

BP: 1+70.14

BP: 1+30.00

R/L 76th ST.

76th ST. NB

B-40-0256
(SEE STRUCTURE PLANS)

182+00

CONCRETE CURB & GUTTER 30-INCH TYPE A

CONCRETE SIDEWALK 5-INCH

BEGIN OVERLAY (NB)
STA 50+41.35
12' RT
MATCH EXISTING

CONCRETE PAVEMENT APPROACH SLAB

PC: 182+58.43

183+00

PT: 9+90.89

10

184+00

END OVERLAY (NB)
STA 53+29.55
12' RT
MATCH EXISTING

CONCRETE PAVEMENT APPROACH SLAB

CONCRETE SIDEWALK 5-INCH

CONCRETE CURB & GUTTER 30-INCH TYPE A

LEGEND

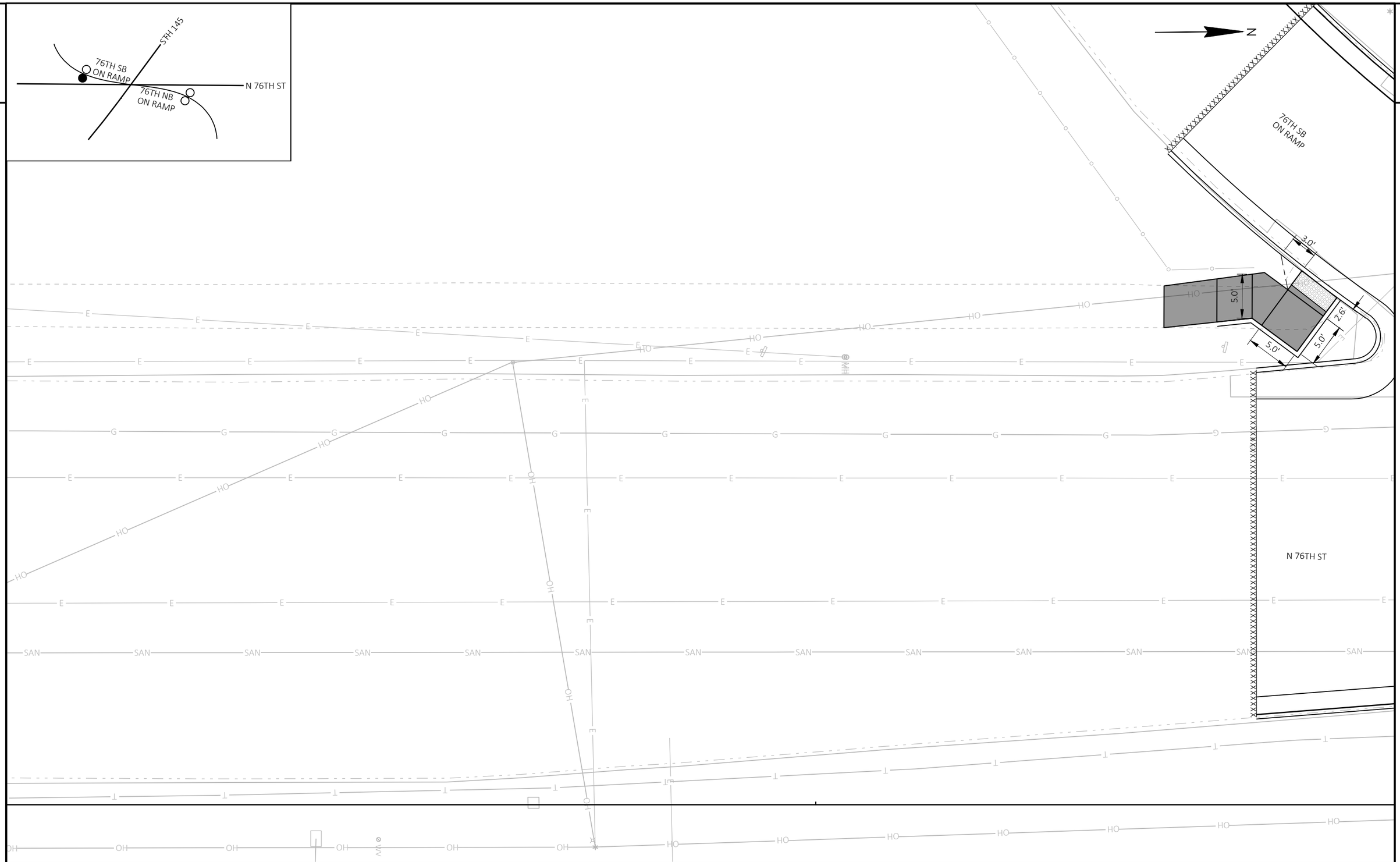
- CONCRETE PAVEMENT 9-INCH
- CONCRETE PAVEMENT APPROACH SLAB
- HMA PAVEMENT
- CONCRETE SIDEWALK 5-INCH

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 8	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\021201_PD.DWG
LAYOUT NAME - 02

PLOT DATE : 2/19/2021 4:21 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

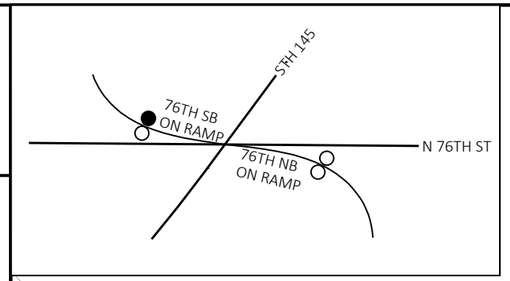
WISDOT/CADDS SHEET 42



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 9	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:26 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT



N

2

5.0'
4.8'
5.0'
6.0'
3.0'
3.0'
76TH SB
ON RAMP
N 76TH ST

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 10	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 02

PLOT DATE : 2/19/2021 4:26 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

N 76TH ST

N

CONC.

76TH NB
ON RAMP

3.6'

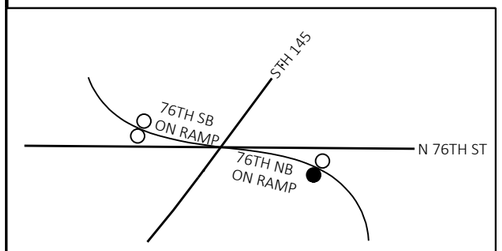
3.6'

4.8'

4.9'

5.0'

5.1'



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 11	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 03

PLOT DATE : 2/19/2021 4:26 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

55

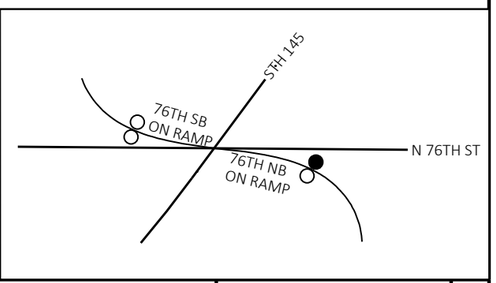
2

N

N 76TH ST

76TH NB
ON RAMP

5.0'
5.0'
2.6'
5.0'
3.8'
5.0'
3.0'



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 12	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 04

PLOT DATE : 2/19/2021 4:26 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

2

N

MARKING LINE EPOXY 8-INCH

MARKING LINE
EPOXY 4-INCH

6'

4'

12'

12'

W. SILVER SPRING DR.

56+00 57+00 58+00 59+00 60+00 61+00

12'

12.5' LINE, 37.5' GAP

3' LINE, 9' GAP

12'

4'

R/L SILVER SPRING DR.

MARKING LINE EPOXY 8-INCH

MARKING LINE
EPOXY 4-INCH

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 13	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM.DWG
LAYOUT NAME - 02

PLOT DATE : 2/19/2021 4:22 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MARKING LINE EPOXY 8-INCH

MARKING LINE EPOXY TRANSVERSE LINE 6-INCH

MARKING LINE EPOXY 4-INCH

MATCH LINE 51+75

76th ST. SB

12'

12'

46+00 47+00 48+00 49+00 50+00 51+00

76th ST. NB

12'

12'

R/L 76th ST.

3' LINE, 9' GAP

MARKING LINE EPOXY 8-INCH

MARKING LINE EPOXY 4-INCH

MARKING LINE EPOXY 8-INCH

12.5' LINE, 37.5' GAP

MARKING LINE EPOXY 4-INCH

12'

12'

76th ST. SB

52+00 53+00 54+00 55+00 56+00 57+00

12'

12'

R/L 76th ST.

76th ST. NB

MATCH LINE 51+75

MARKING LINE EPOXY 4-INCH

MARKING LINE EPOXY 8-INCH

MARKING LINE EPOXY TRANSVERSE LINE 6-INCH

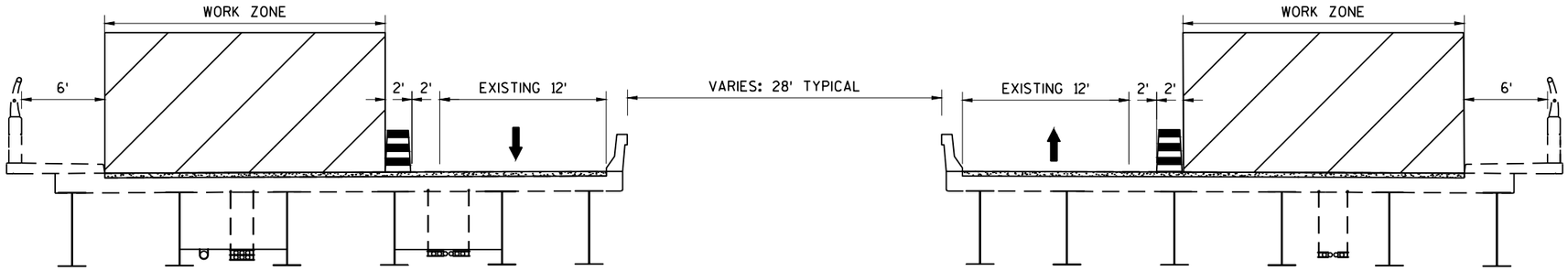
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 14	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:23 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

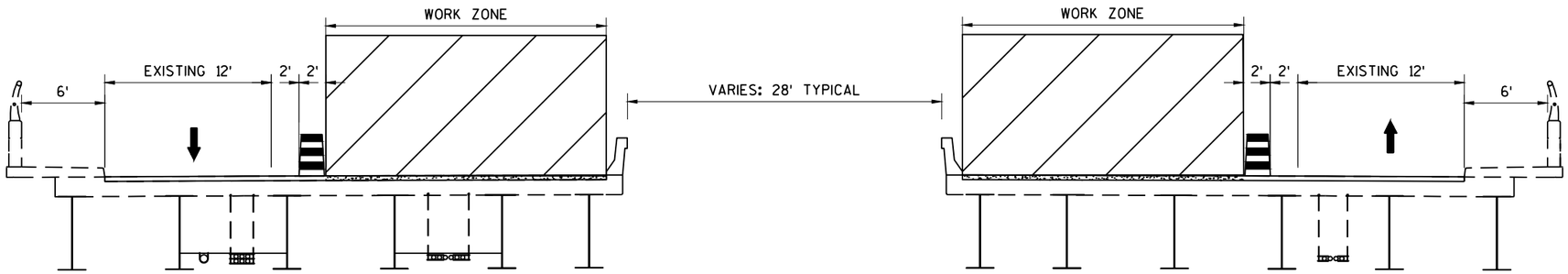
WISDOT/CADDS SHEET 44

2



W.SILVER SPRING DR. (LOOKING EAST)
B-40-254(WB)
STAGE 1
ONE LANE OPEN TO TRAFFIC

W.SILVER SPRING DR. (LOOKING EAST)
B-40-253 (EB)
STAGE 1
ONE LANE OPEN TO TRAFFIC



W.SILVER SPRING DR. (LOOKING EAST)
B-40-254(WB)
STAGE 2
ONE LANE OPEN TO TRAFFIC

W.SILVER SPRING DR. (LOOKING EAST)
B-40-253 (EB)
STAGE 2
ONE LANE OPEN TO TRAFFIC

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTION - SILVER SPRING	SHEET 15	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC.DWG
LAYOUT NAME - 04
PLOT DATE : 2/19/2021 4:43 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

NOTES

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WTIHIN SINGLE RIGHT LANE CLOSURE"

LEGEND

CLOSED ROADWAY

N

N. 86TH ST

WB SILVER SPRING DR

R/L SILVER SPRING DR.

42+00 43+00 44+00 45+00 46+00 47+00

EB SILVER SPRING DR

SEE NOTE 1 FOR ADVANCE SIGNING

320' LANE DROP SEE NOTE 1

MATCH LINE 47+75

MATCH LINE 53+50

W. FOND DU LAC AVE

WB SILVER SPRING DR

R/L SILVER SPRING DR.

48+00 49+00 50+00 51+00 52+00 53+00

EB SILVER SPRING DR

SEE NOTE 2

320' LANE DROP SEE NOTE 1

MATCH LINE 47+75

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - SILVER SPRING	SHEET 16	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:45 PM PLOT BY : WATT, TIMOTHY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

N

WB SILVER SPRING DR

R/L SILVER SPRING DR.

EB SILVER SPRING DR

54+00 55+00 56+00 57+00 58+00 59+00

MATCH LINE 53+50

MATCH LINE 59+25

W. FOND DU LAC AVE

SB STH 145

NB STH 145

B-40-0254

B-40-0253

SIGN POST SLAB MH

2

N

NB STH 145 ON RAMP

WB SILVER SPRING DR

60+00 61+00 62+00 63+00 64+00 65+00

EB SILVER SPRING DR

R/L SILVER SPRING DR.

MATCH LINE 59+25

MATCH LINE 65+25

N. 79TH ST

W. LEON TERRACE

NB STH 145

160

SIGN SLAB MH

NOTES

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WTIHIN SINGLE RIGHT LANE CLOSURE"

LEGEND

CLOSED ROADWAY

DECK OVERLAY

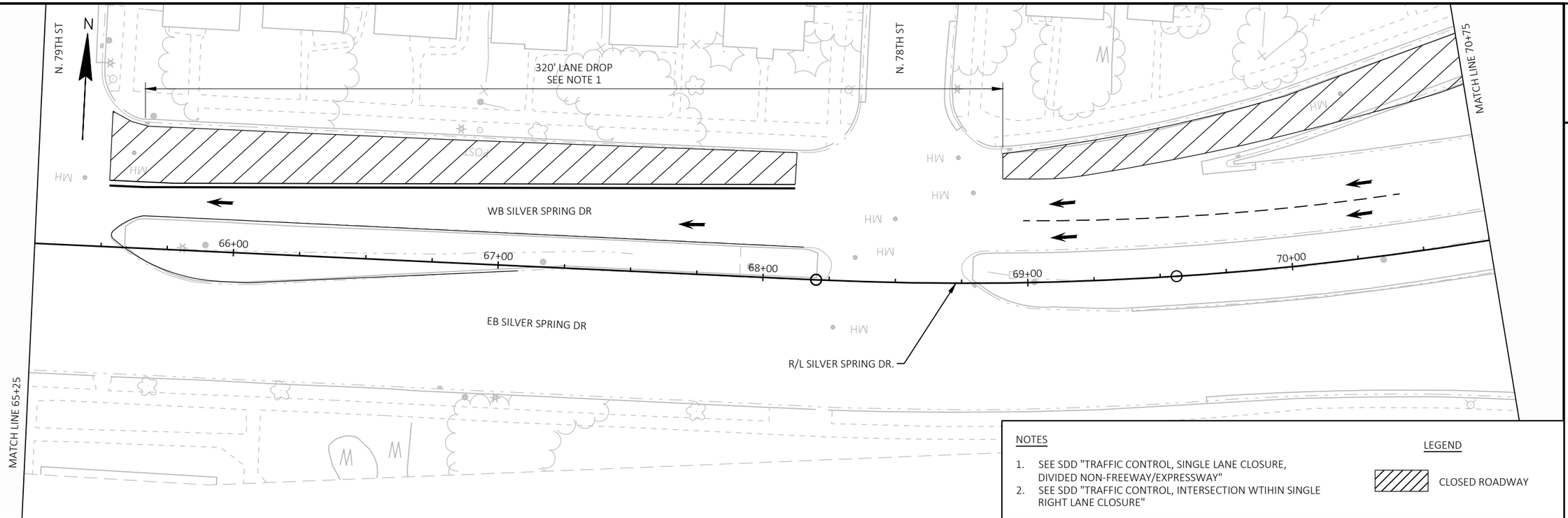
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - SILVER SPRING	SHEET 17	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 2/19/2021 4:47 PM PLOT BY : WATT, TIMOTHY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

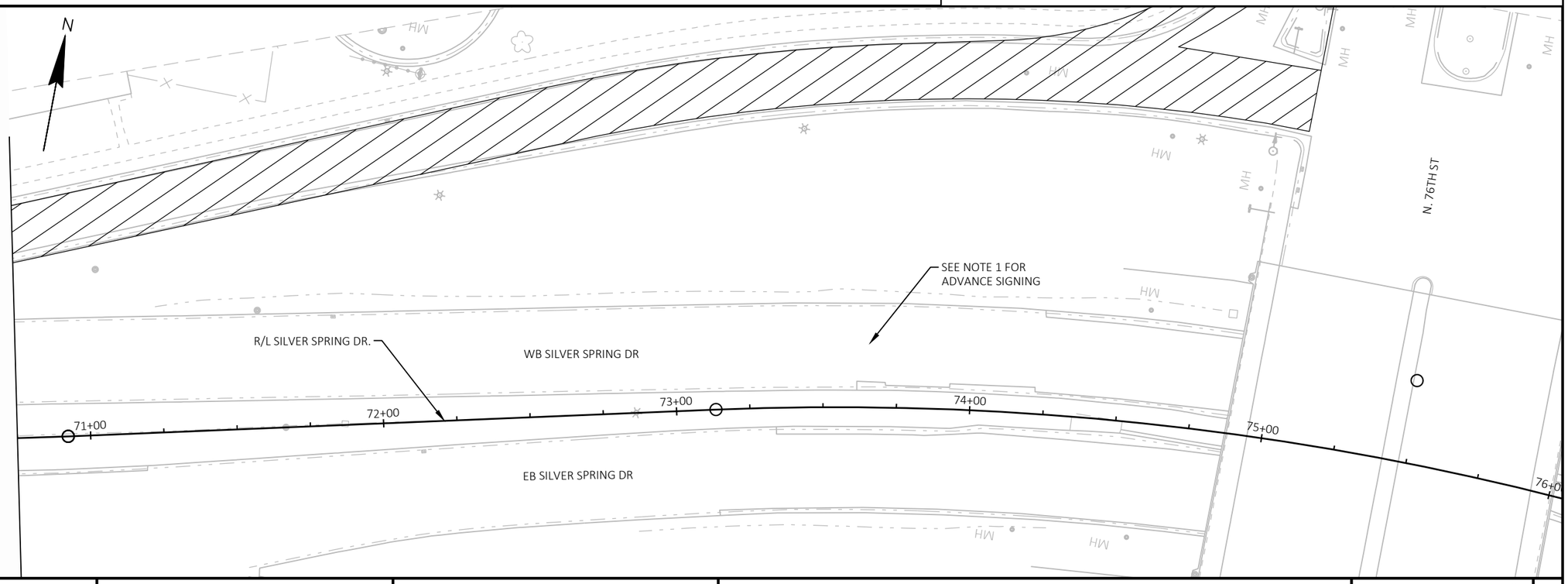


NOTES

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WTIHIN SINGLE RIGHT LANE CLOSURE"

LEGEND

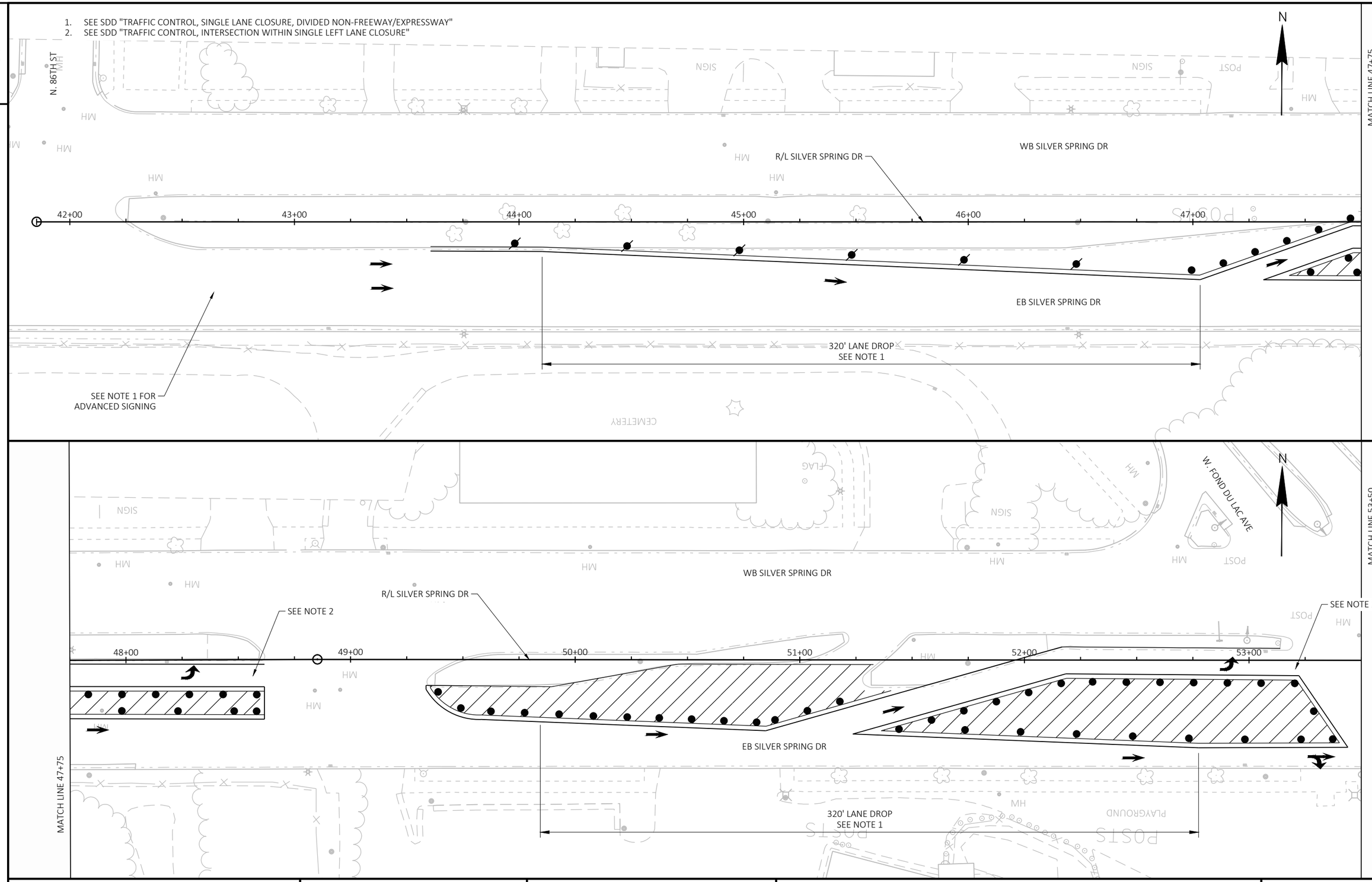
CLOSED ROADWAY



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - SILVER SPRING	SHEET 18	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2021 4:49 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE"



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - SILVER SPRING	SHEET 19	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025102_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 2/19/2021 4:53 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

N

SIGN

POST

SLAB

SIGN

MH

WB SILVER SPRING DR

R/L SILVER SPRING DR

MH

54+00

55+00

56+00

57+00

58+00

59+00

MH

MH

EB SILVER SPRING DR

MATCH LINE 53+50

W. FOND DU LAC AVE

MH

58 STH 145

NB STH 145

B-40-0254

MATCH LINE 59+25

2

B-40-0253

YIELD

MH

N

YIELD

MH

NB STH 145 ON RAMP

SIGN

N. 79TH ST

MATCH LINE 65+25

WB SILVER SPRING DR

MH

MH

60+00

61+00

62+00

63+00

64+00

65+00

EB SILVER SPRING DR

MH

MH

R/L SILVER SPRING DR

MATCH LINE 59+25

NB STH 145

160

SLAB

W. LEON TERRACE

MH

MH

SIGN

SIGN

SIGN

SIGN

M

MH

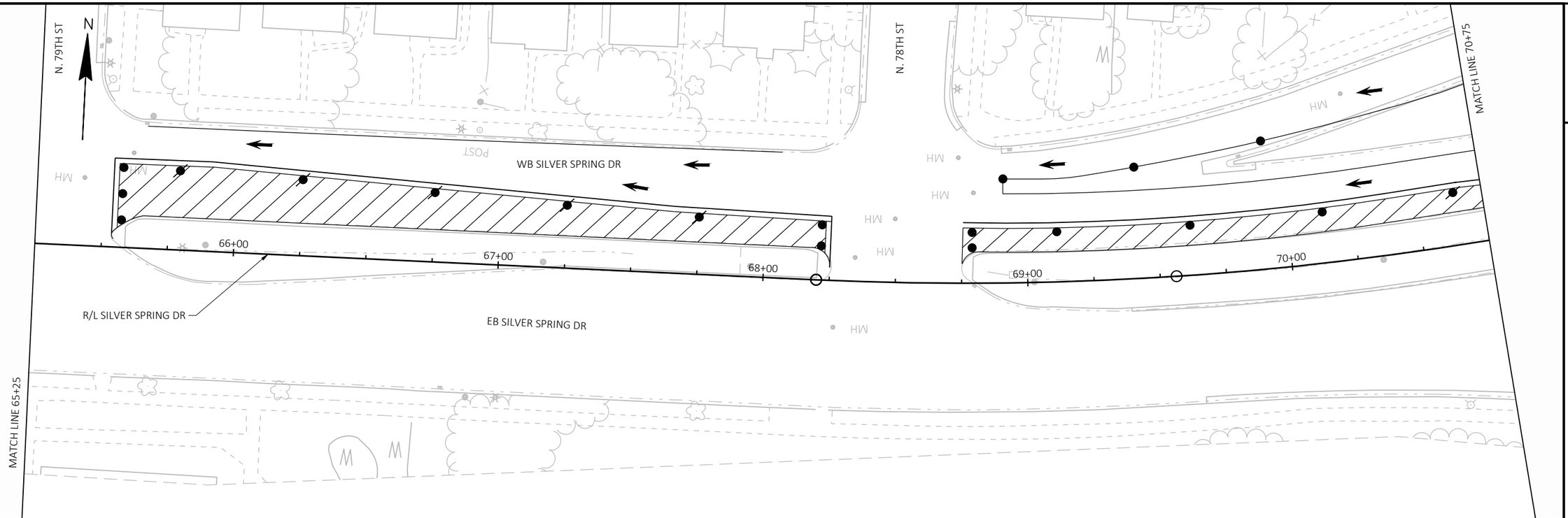
M

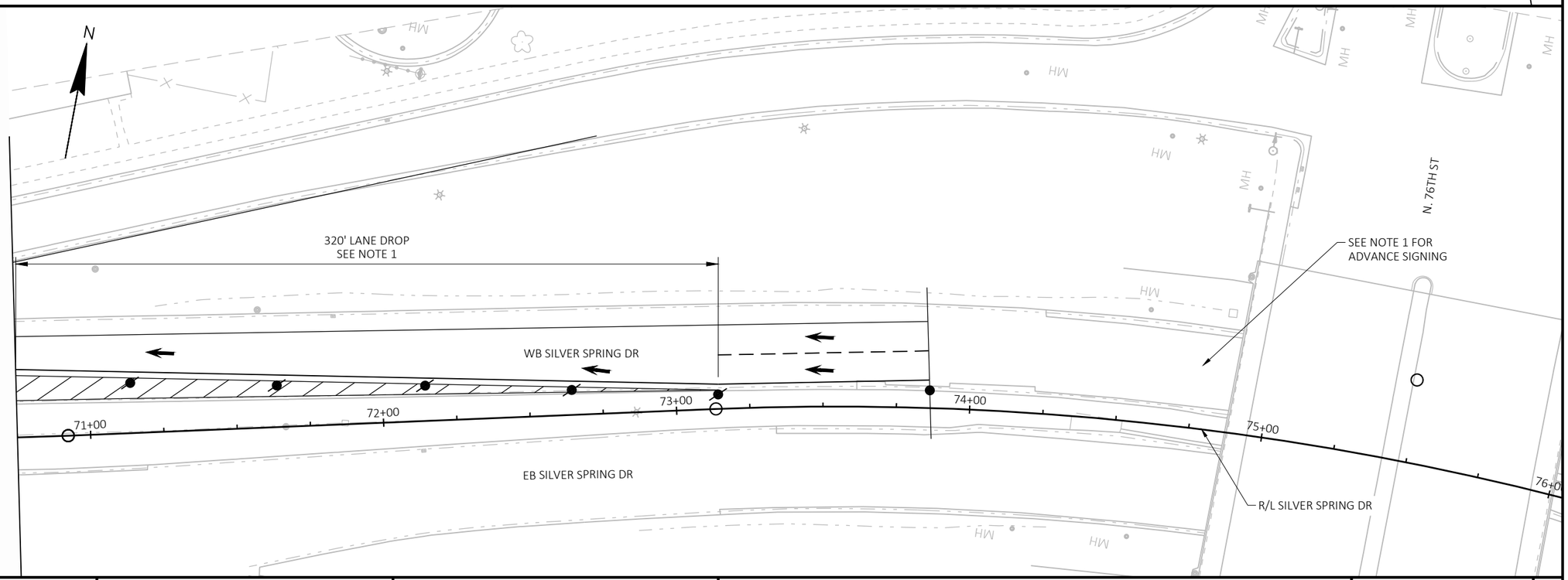
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - SILVER SPRING	SHEET 20	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025102_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 2/19/2021 4:55 PM PLOT BY : WATT, TIMOTHY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

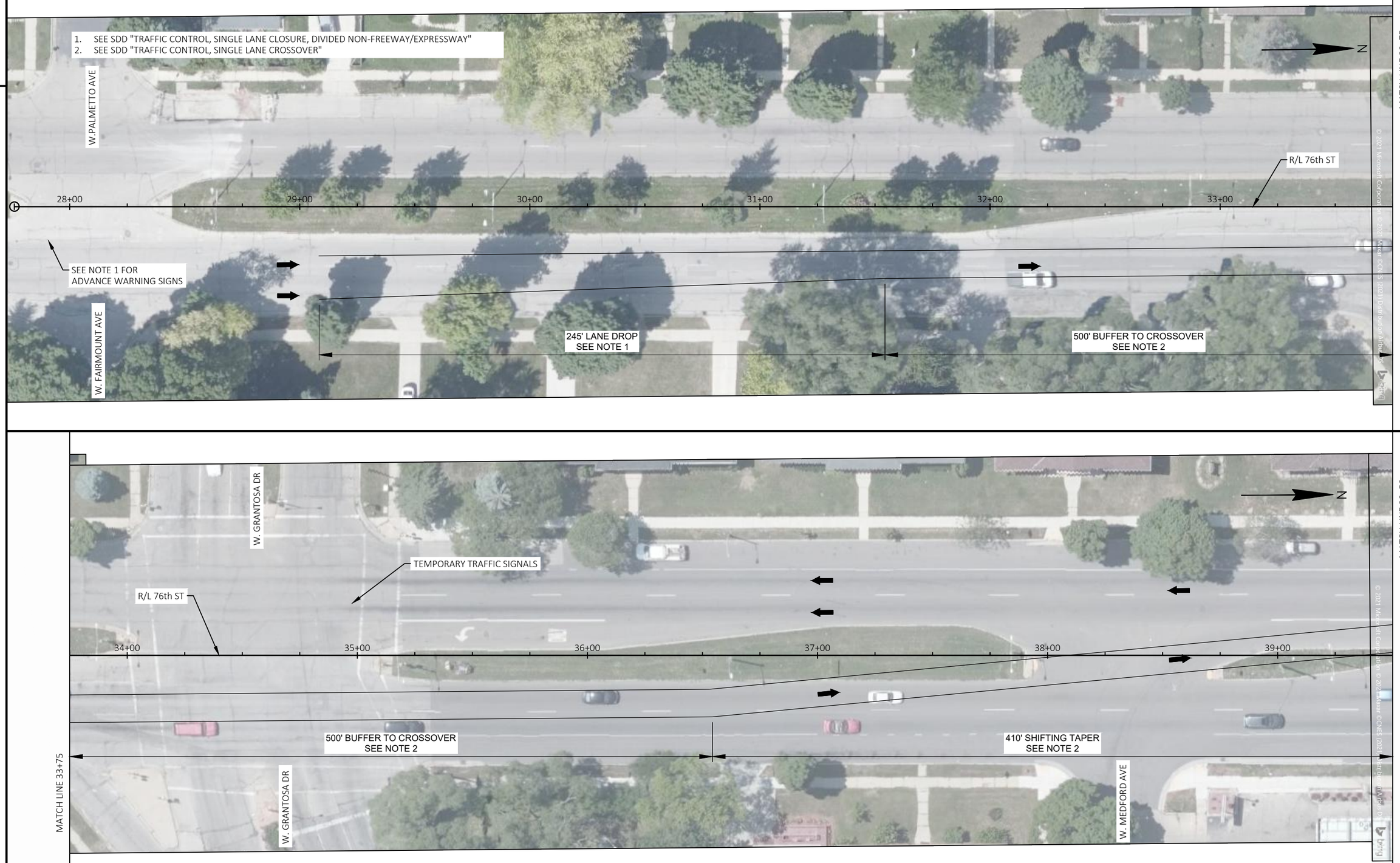




PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - SILVER SPRING	SHEET 21	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025102_TC.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2021 4:57 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CROSSOVER"



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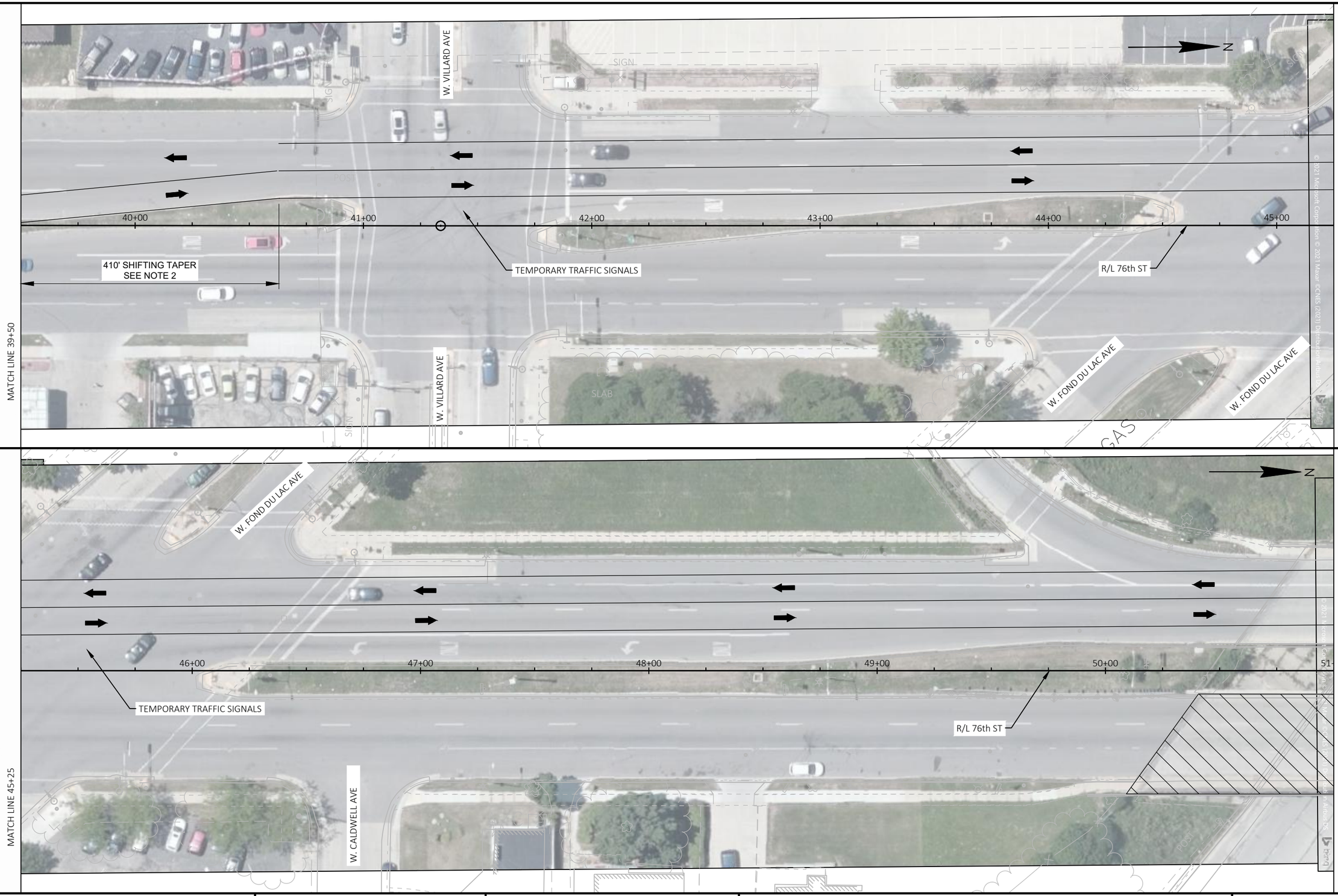
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - 76TH ST	SHEET 22	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 2/22/2021 1:51 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



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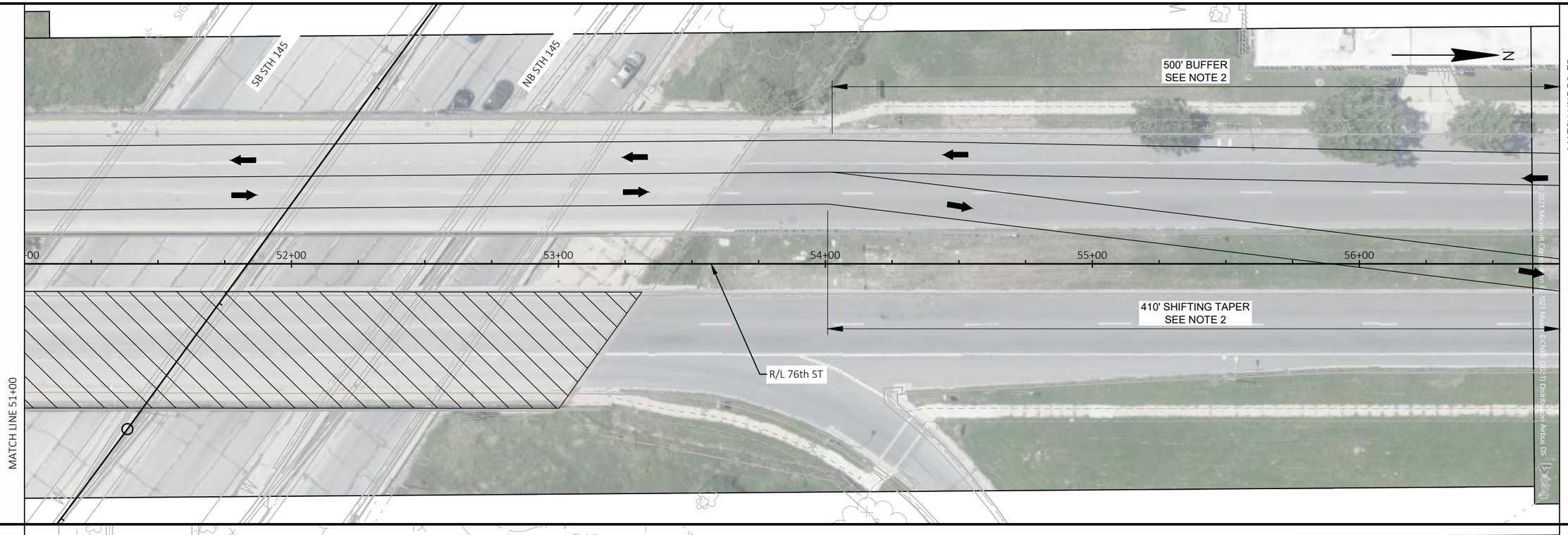
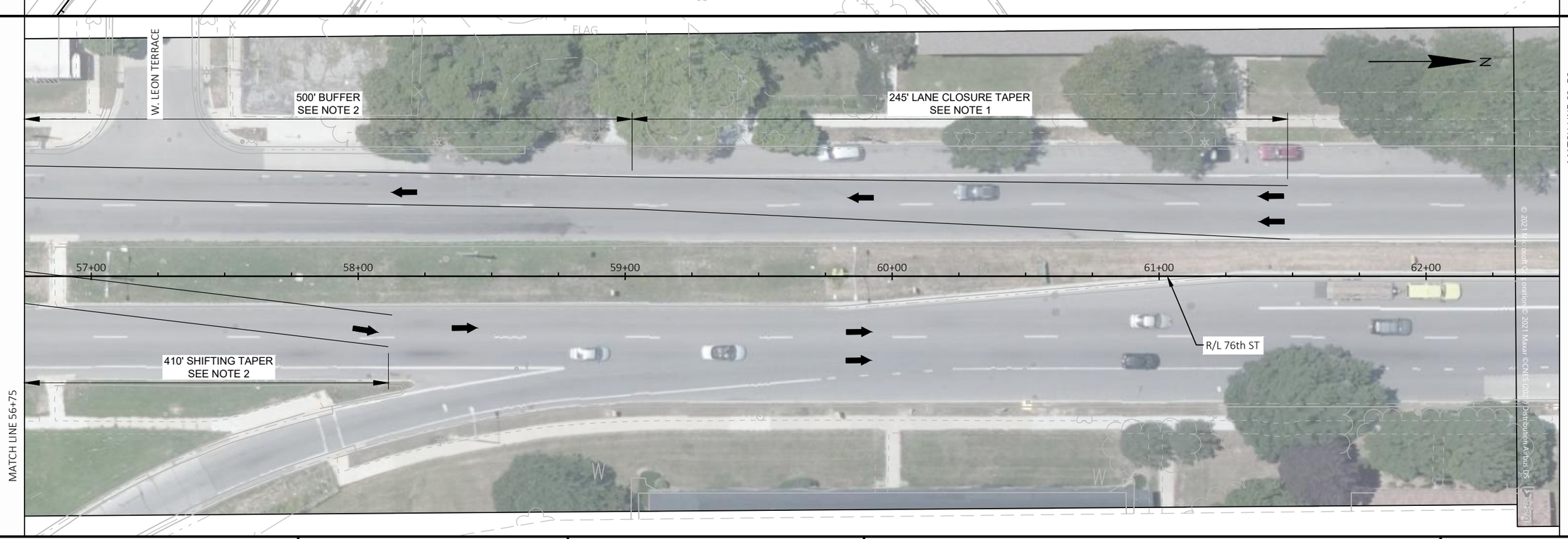
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - 76TH ST	SHEET 23	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 2/22/2021 1:52 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT





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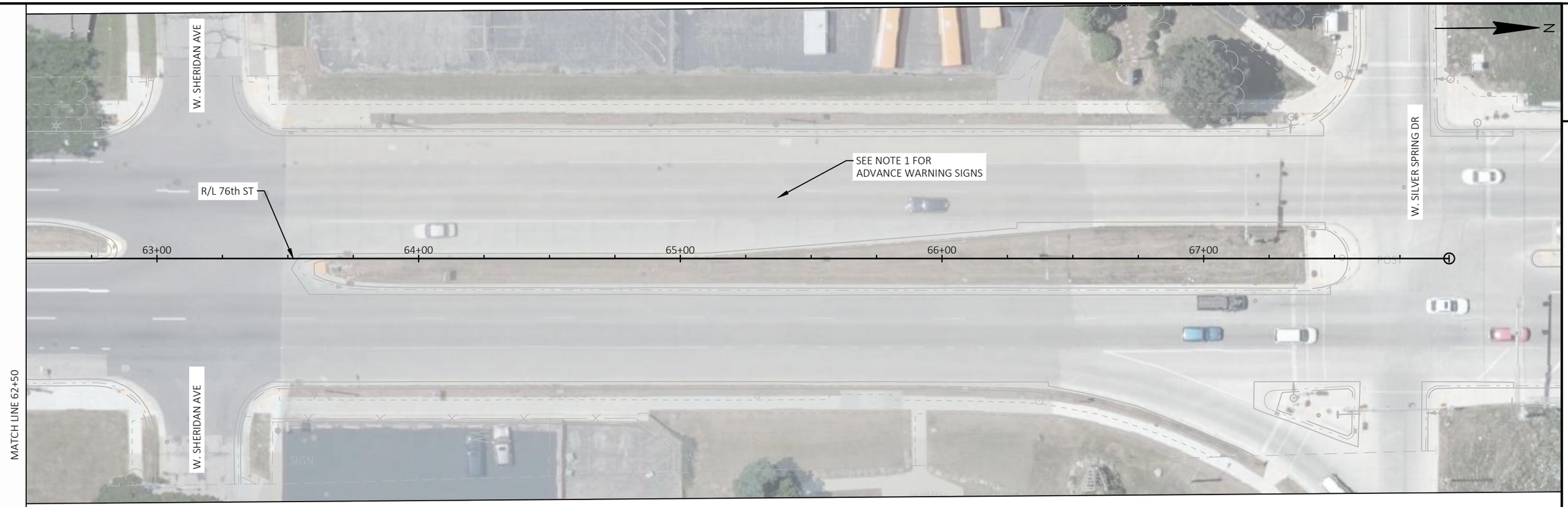
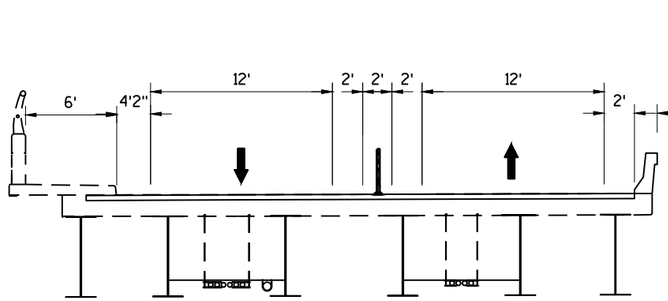
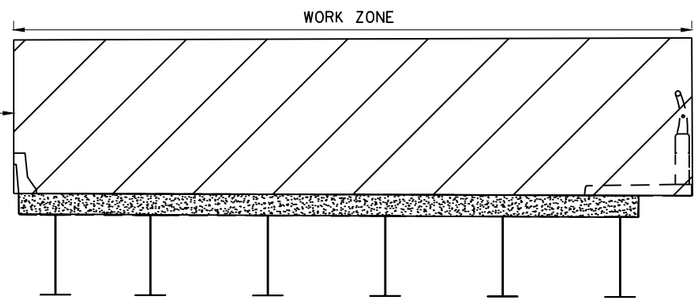
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - 76TH ST	SHEET 24	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 03
PLOT DATE : 2/22/2021 1:53 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





VARIES: 25' TYPICAL



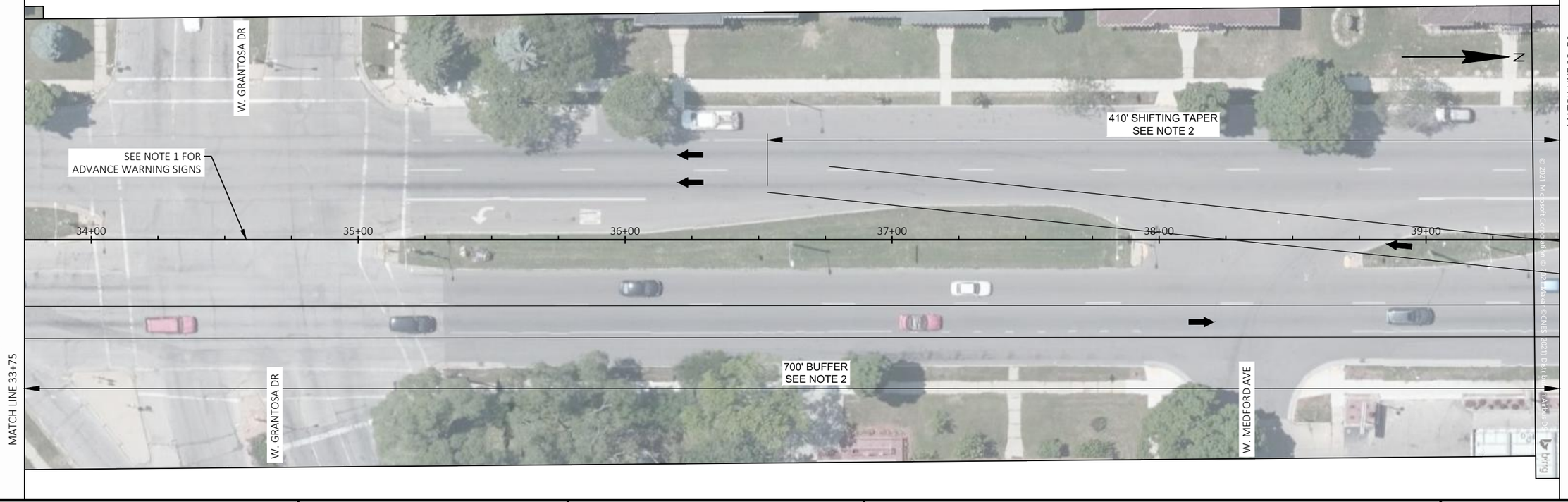
76TH ST. (LOOKING NORTH)
B-40-255 (SB)
STAGE1
ONE LANE OPEN TO TRAFFIC
BOTH DIRECTIONS

76TH ST. (LOOKING NORTH)
B-40-256 (NB)
STAGE 1
CLOSED TO TRAFFIC

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - 76TH ST	SHEET 25	E

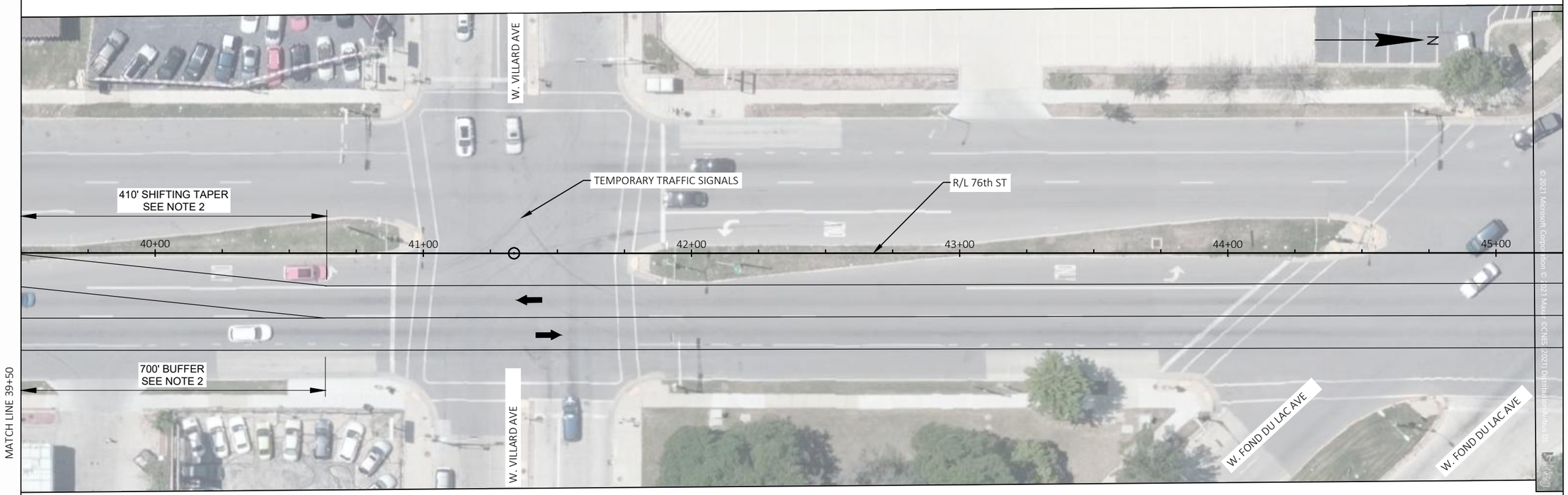
FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 04
PLOT DATE : 2/22/2021 1:53 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

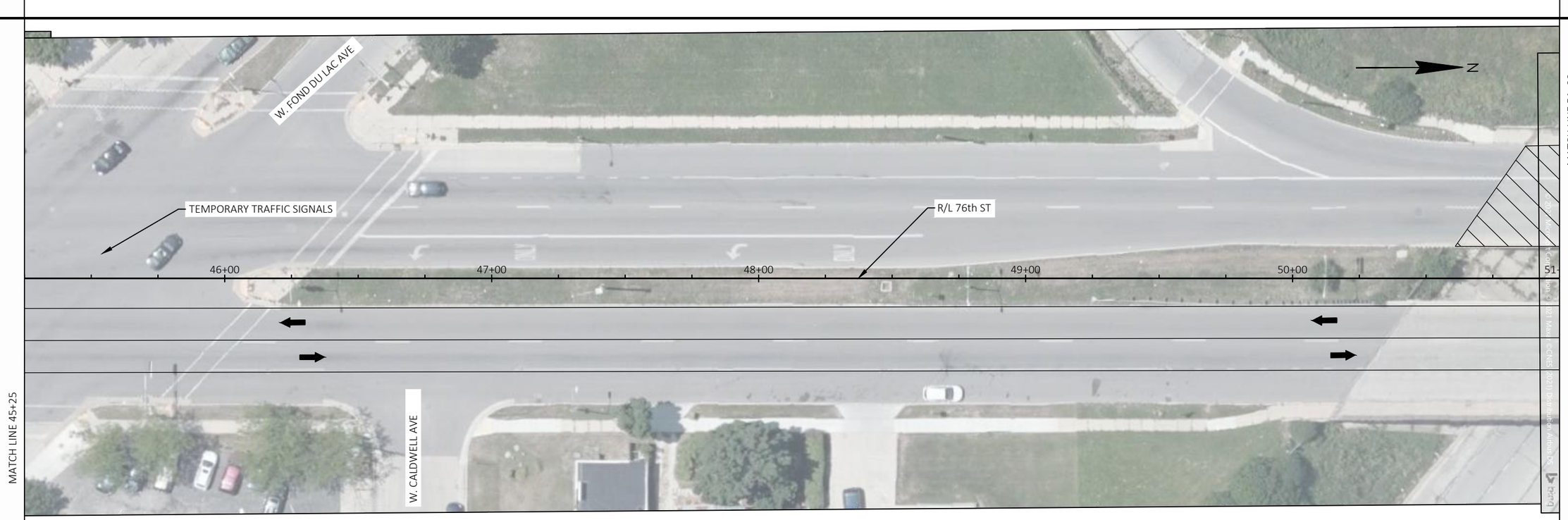
1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CROSSOVER"



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 26	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 2/22/2021 1:58 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT





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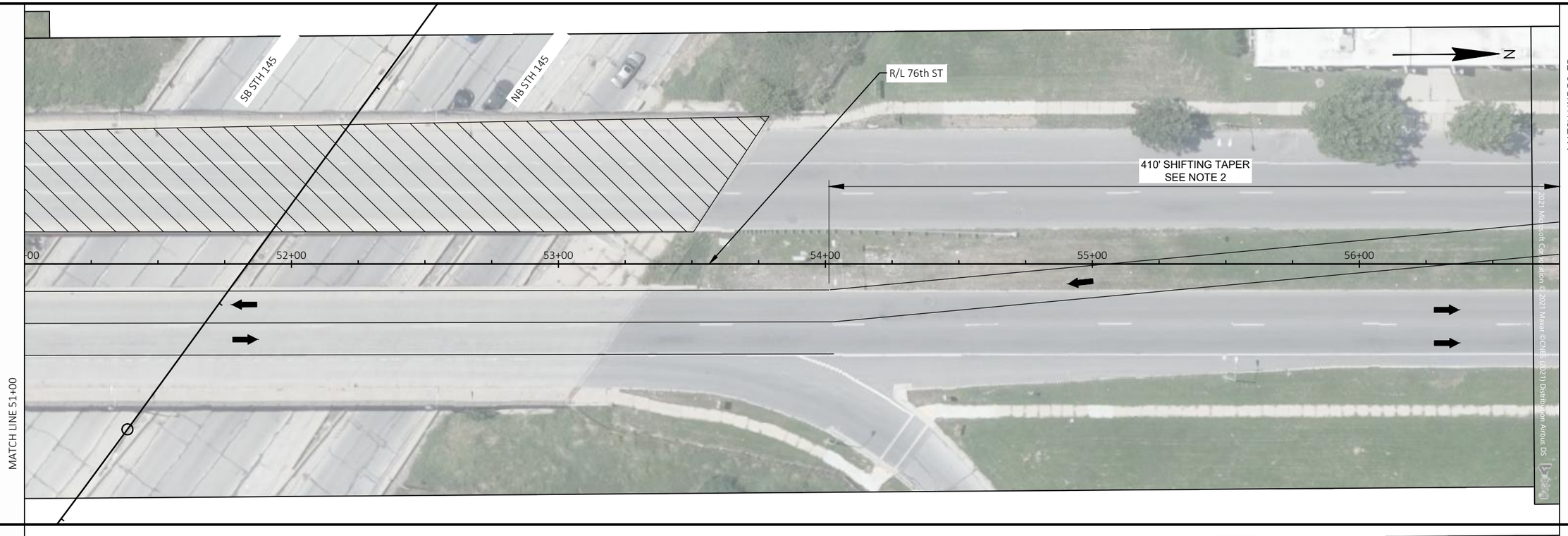
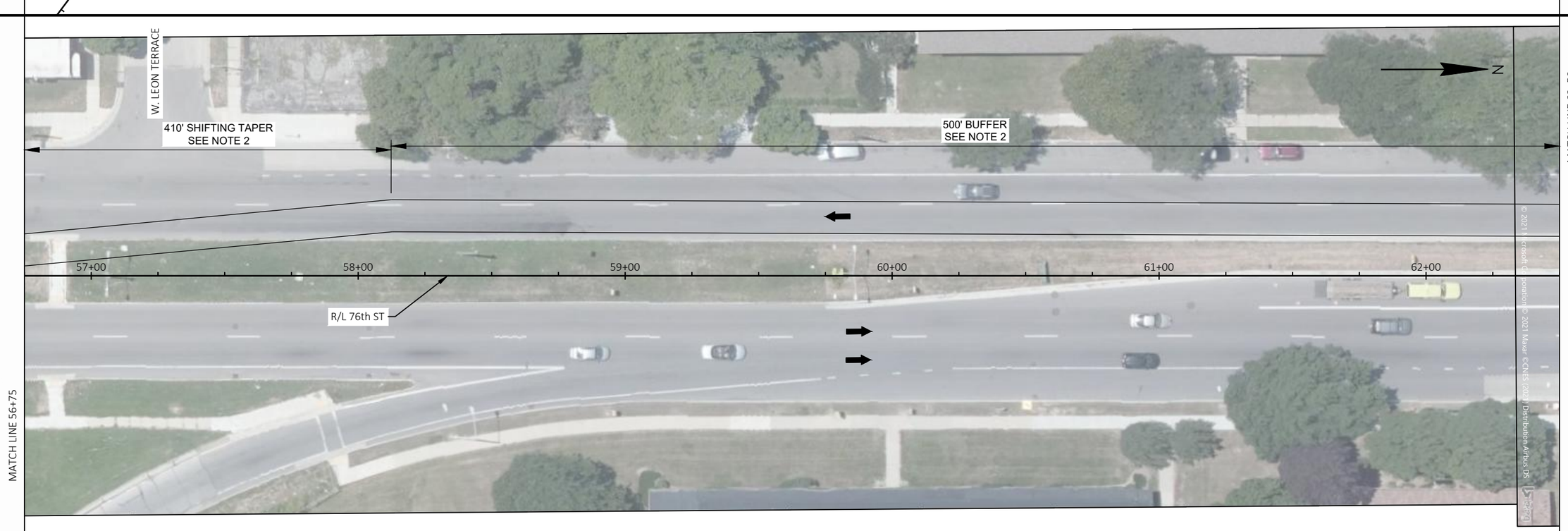
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 27	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 2/22/2021 1:58 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

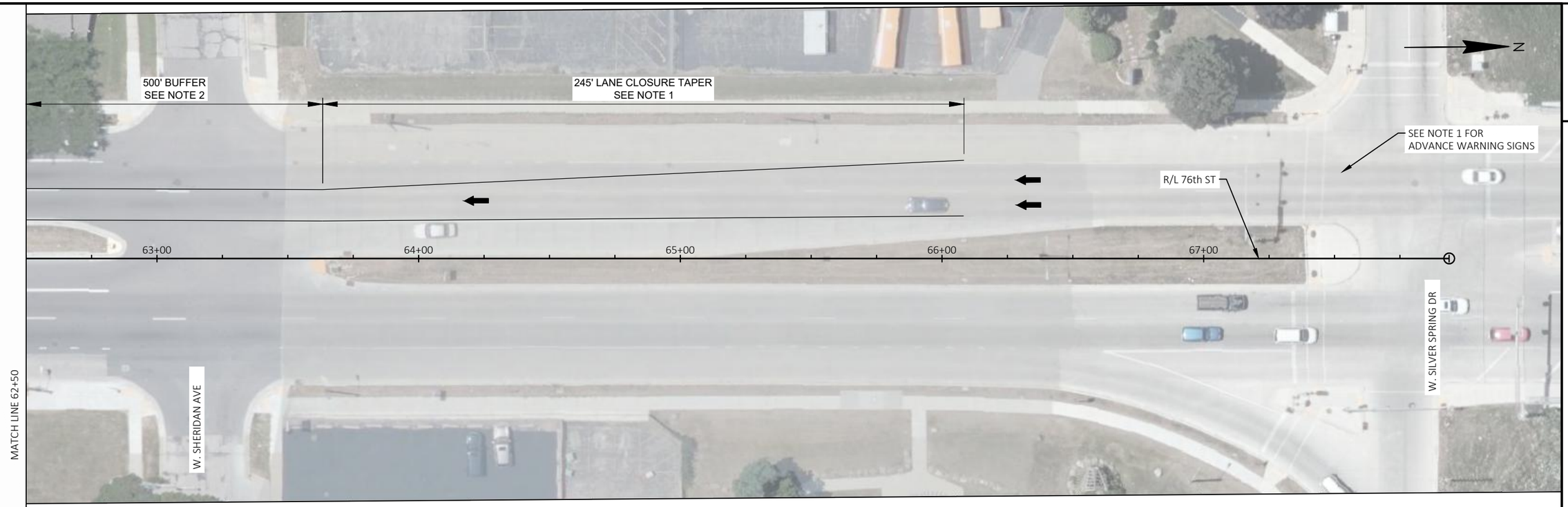


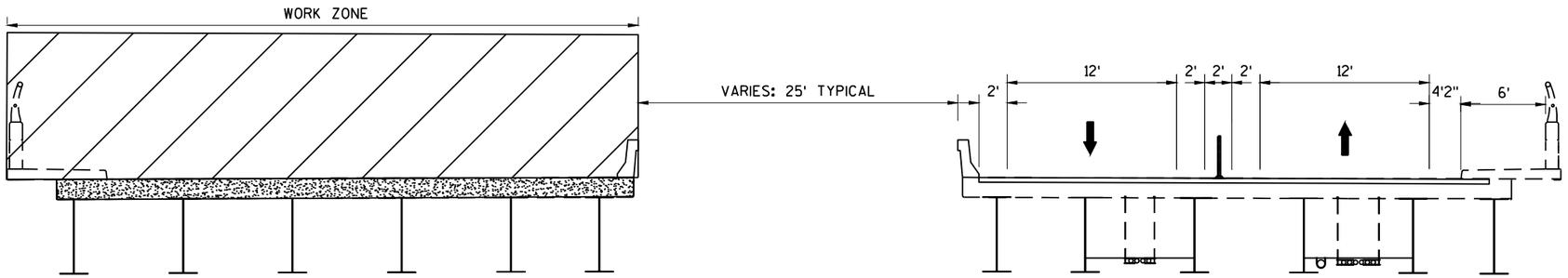


PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 28	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 03

PLOT DATE : 2/22/2021 1:58 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT



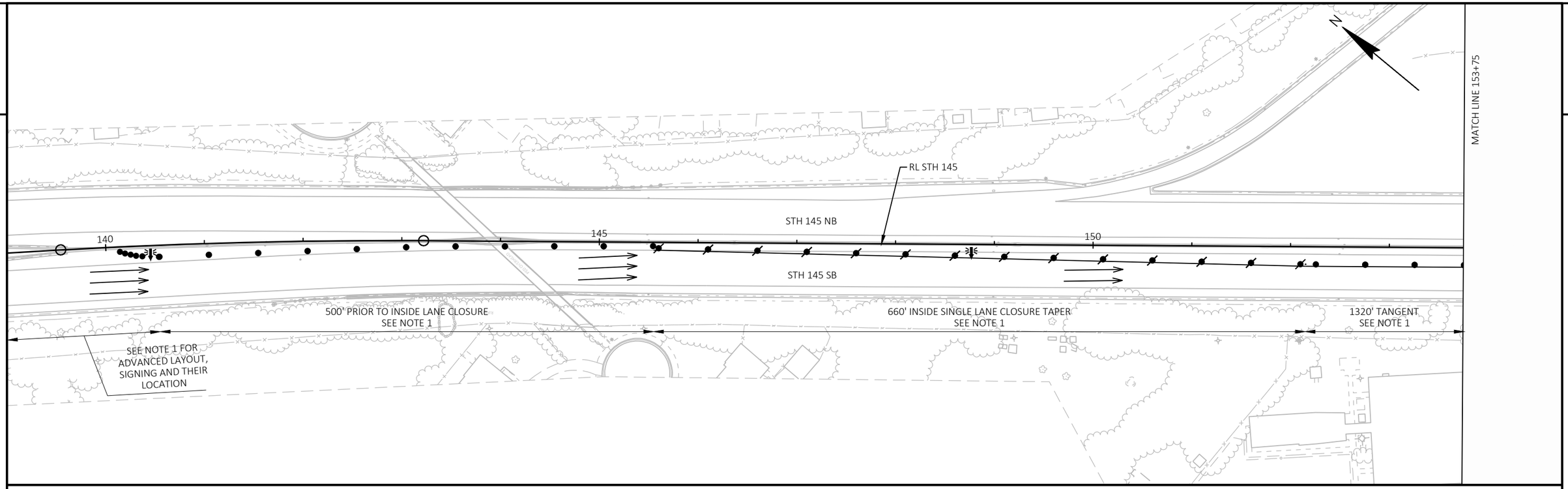


76TH ST. (LOOKING NORTH)
B-40-255 (SB)
STAGE 2
CLOSED TO TRAFFIC

76TH ST. (LOOKING NORTH)
B-40-256 (NB)
STAGE 2
ONE LANE OPEN TO TRAFFIC
BOTH DIRECTIONS

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 29	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 04
PLOT DATE : 2/22/2021 1:58 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



2

WORK:

- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

STANDARD DETAIL DRAWINGS:

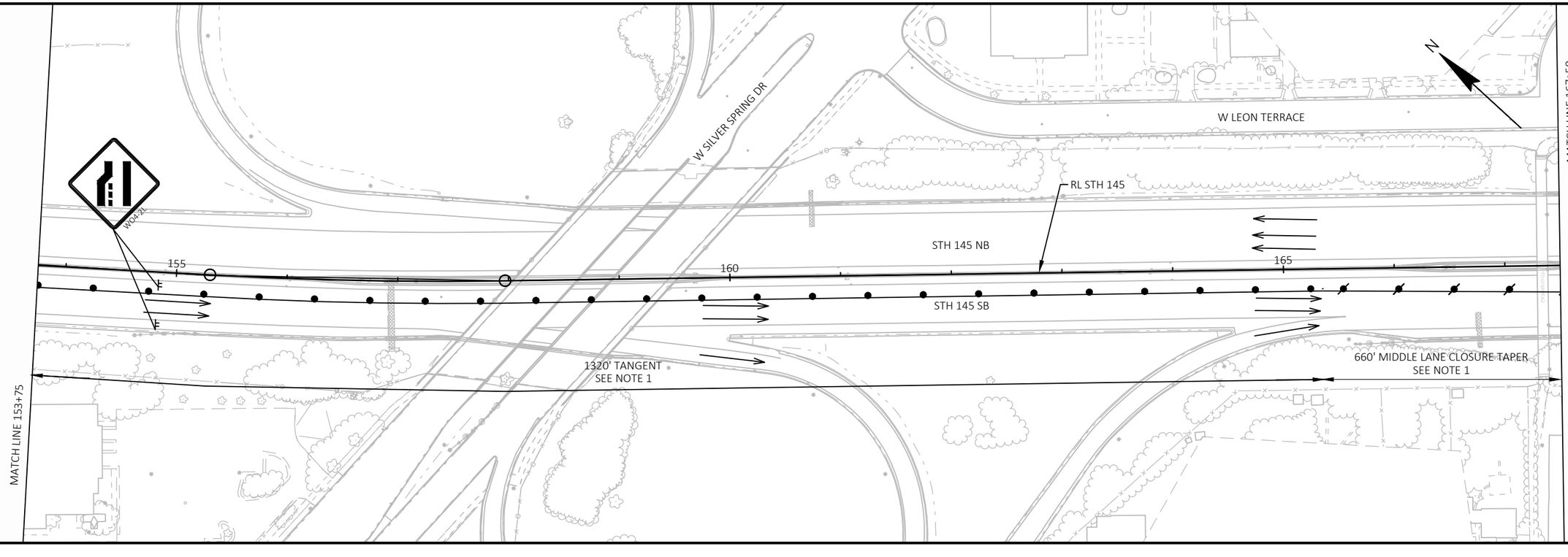
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 30	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 05
PLOT DATE : 2/19/2021 4:15 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

WORK:
- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

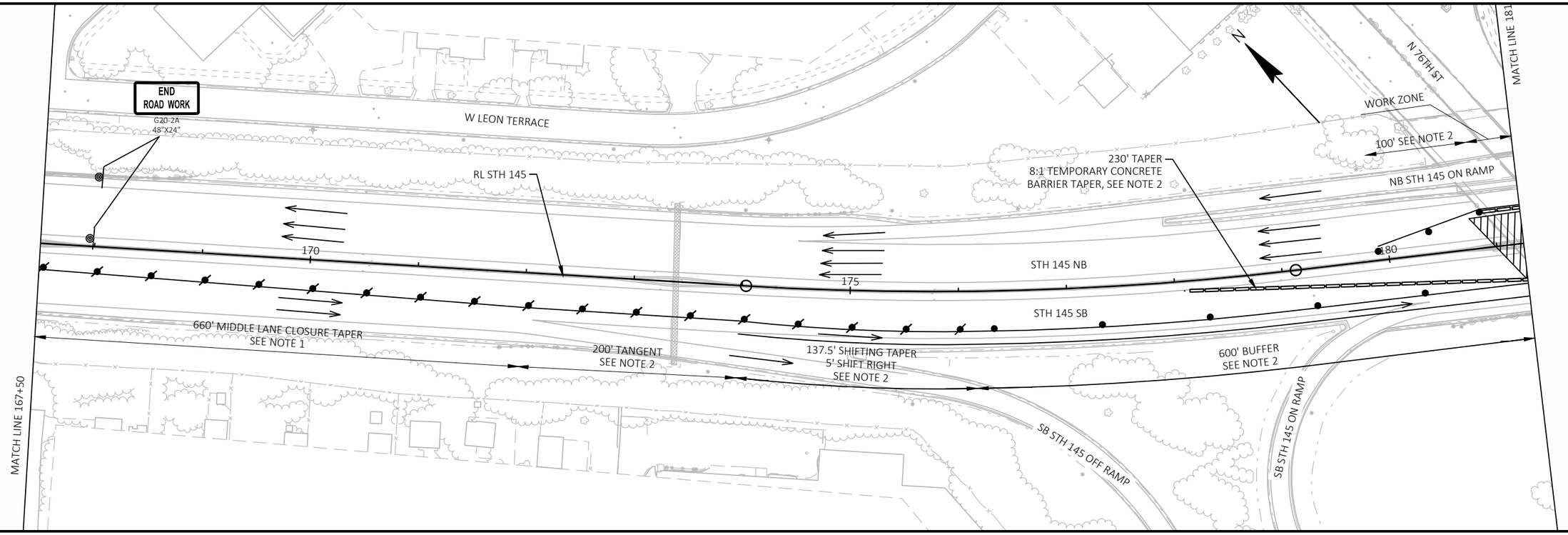
STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

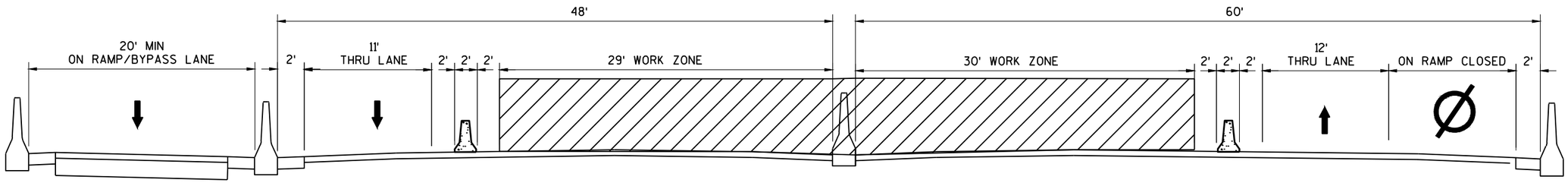
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 31	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 06
PLOT DATE : 2/19/2021 4:17 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





STH 145 (LOOKING SOUTH)
STAGE 1a
2 INSIDE LANES CLOSED
BOTH DIRECTIONS

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

WORK:

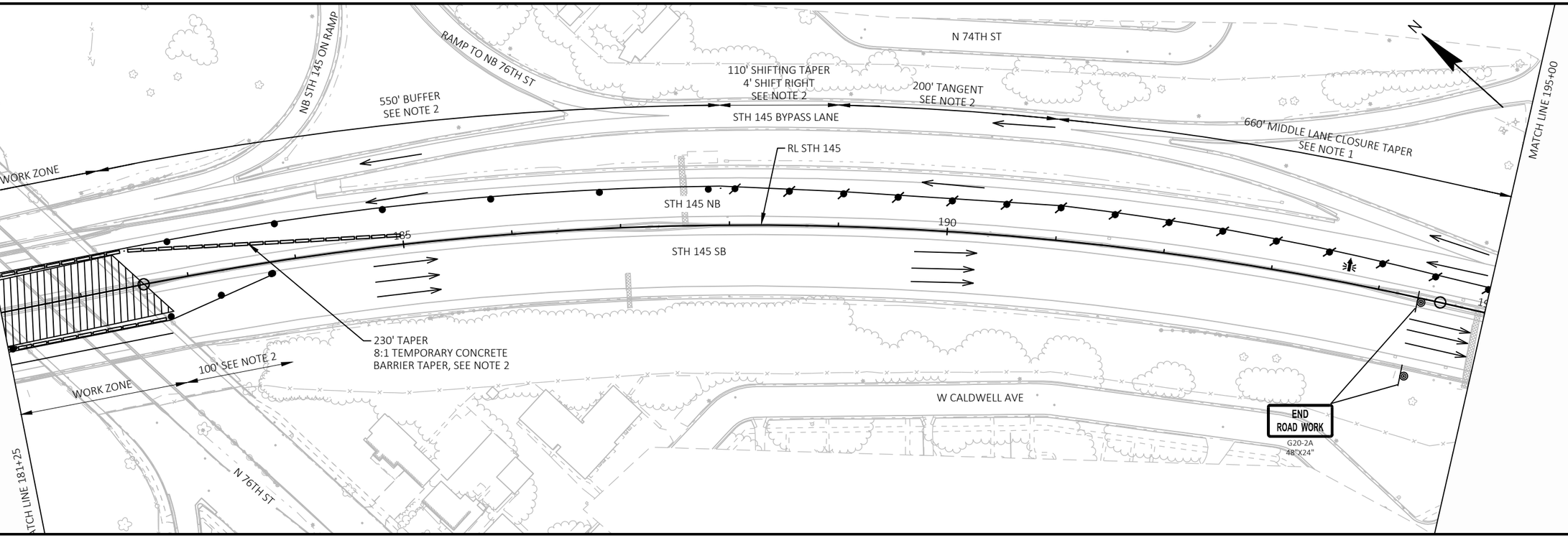
- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

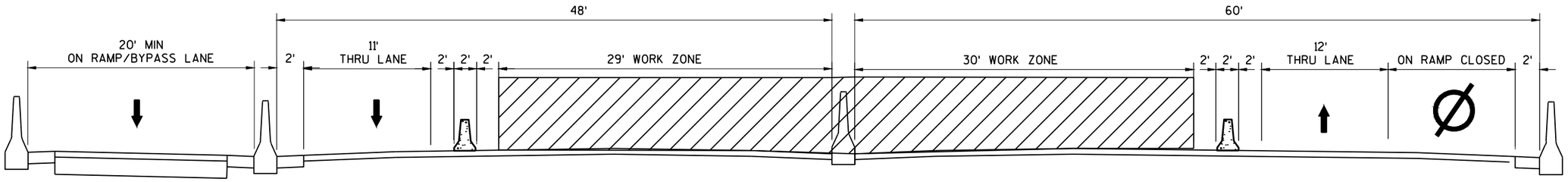
STANDARD DETAIL DRAWINGS:

1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 32	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 07
PLOT DATE : 2/19/2021 4:18 PM PLOT BY : WATT, TIMOTHY PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





STH 145 (LOOKING SOUTH)
STAGE 1a
2 INSIDE LANES CLOSED
BOTH DIRECTIONS

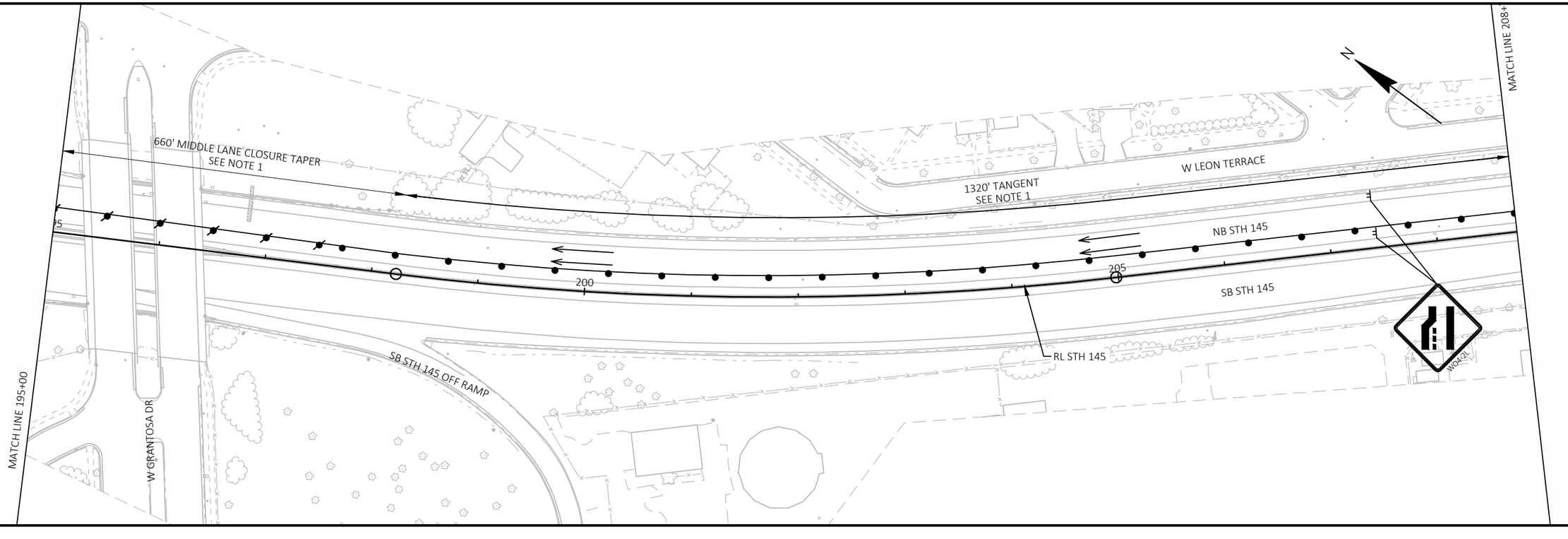
WORK:
- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 33	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 08
PLOT DATE : 2/19/2021 4:20 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



WORK:
- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

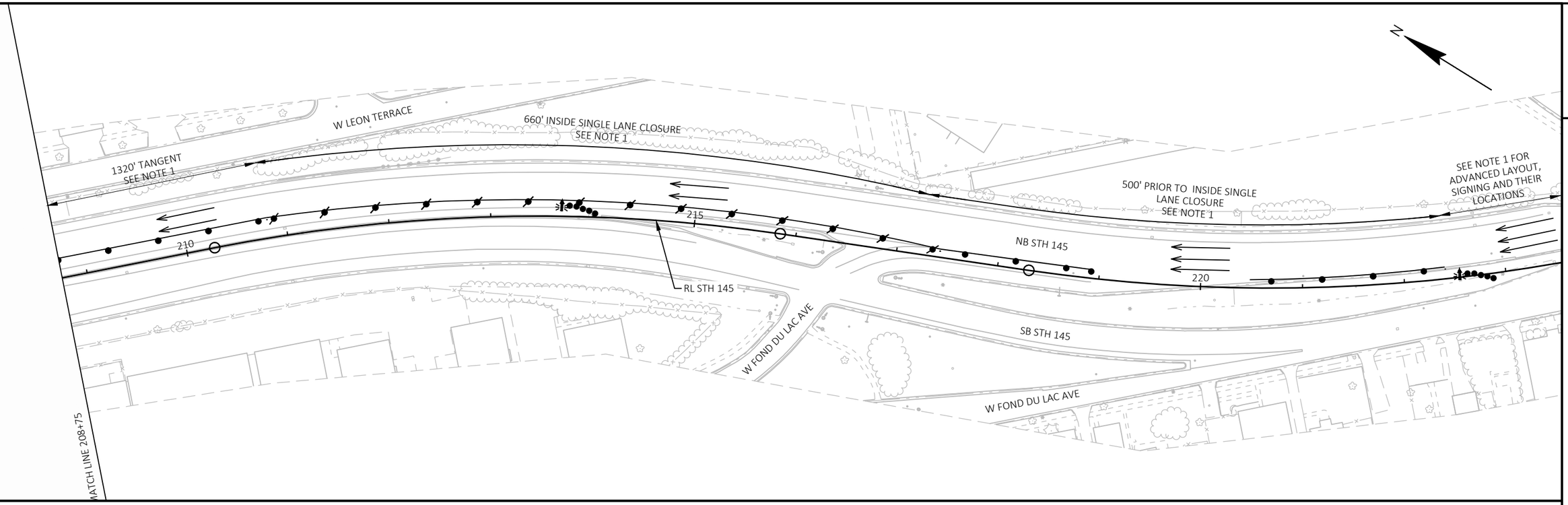
STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 34	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 09
PLOT DATE : 2/19/2021 4:22 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

WORK:

- CLOSE TWO INSIDE LANES AND PUSH ALL TRAFFIC TO OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER MIDDLE LANE. TOTAL DURATION OF STAGE LIMITED TO TWO WEEKS.

STANDARD DETAIL DRAWINGS:

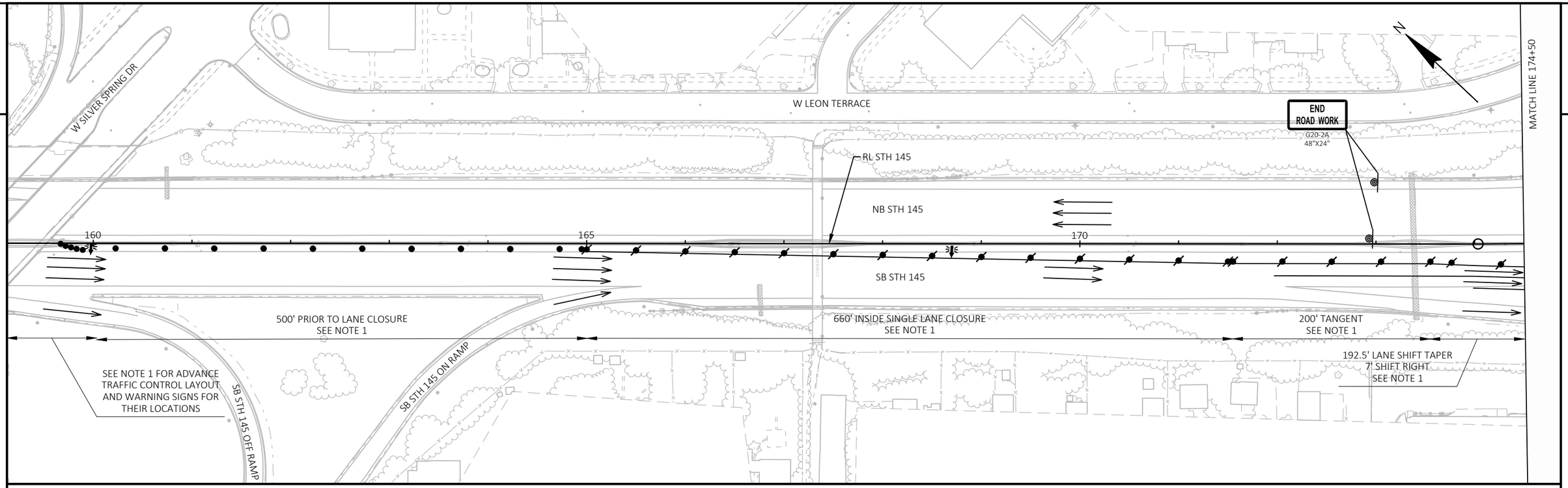
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A - STH 145	SHEET 35	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025105_TC.DWG
LAYOUT NAME - 10
PLOT DATE : 2/19/2021 4:24 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

WORK:

- CLOSE INSIDE LANE AND PUSH ALL TRAFFIC TO MIDDLE LANE 2 AND OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER INSIDE LANE 1 AND MEDIAN.

STANDARD DETAIL DRAWINGS:

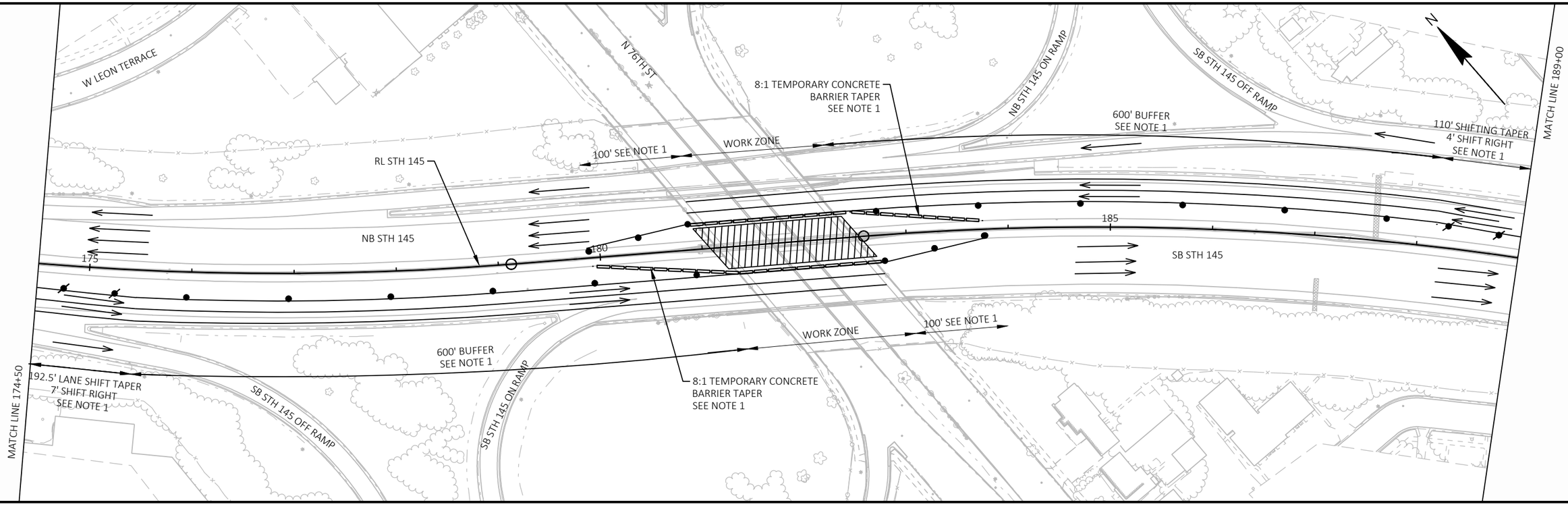
1. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

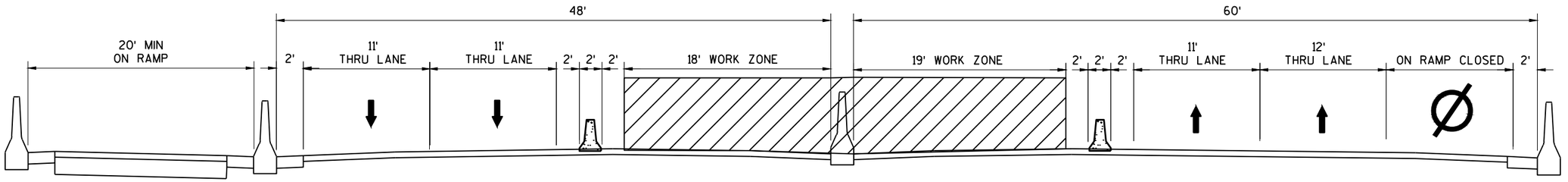
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B - STH 145	SHEET 36	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025106_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 2/19/2021 4:25 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





STH 145 (LOOKING SOUTH)
STAGE 1b
INSIDE LANE CLOSED BOTH DIRECTIONS

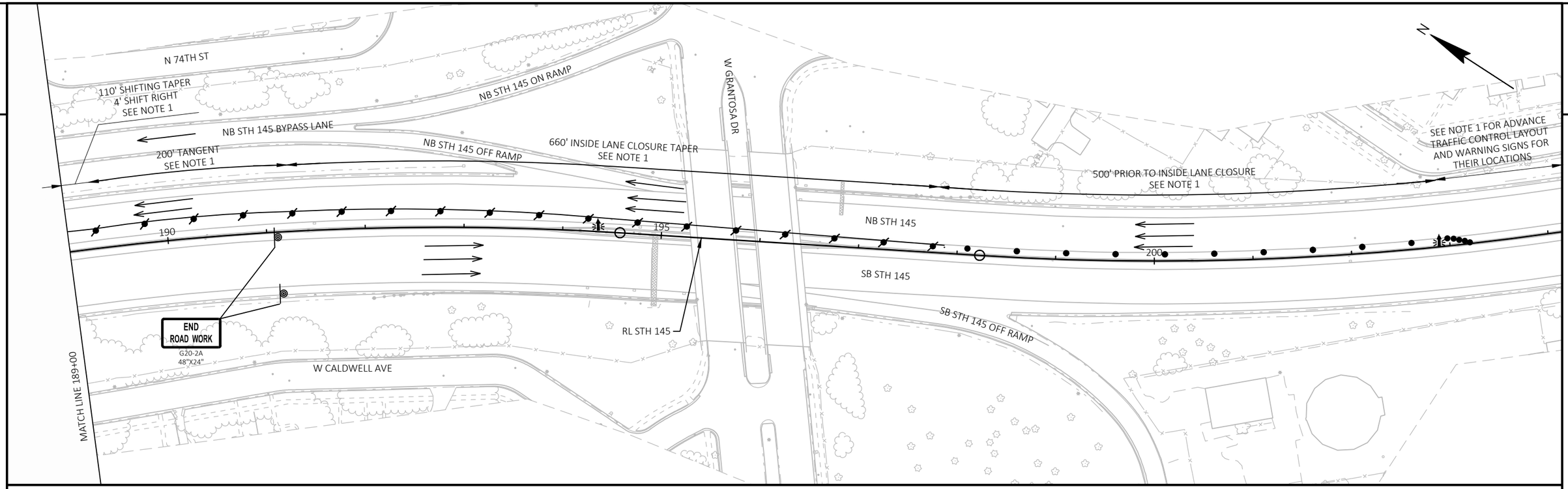
WORK:
- CLOSE INSIDE LANE AND PUSH ALL TRAFFIC TO MIDDLE LANE 2 AND OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER INSIDE LANE 1 AND MEDIAN.

STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B - STH 145	SHEET 37	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025106_TC.DWG
LAYOUT NAME - 02
PLOT DATE : 2/19/2021 4:26 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

WORK:

- CLOSE INSIDE LANE AND PUSH ALL TRAFFIC TO MIDDLE LANE 2 AND OUTSIDE LANE 3.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER INSIDE LANE 1 AND MEDIAN.

STANDARD DETAIL DRAWINGS:

1. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

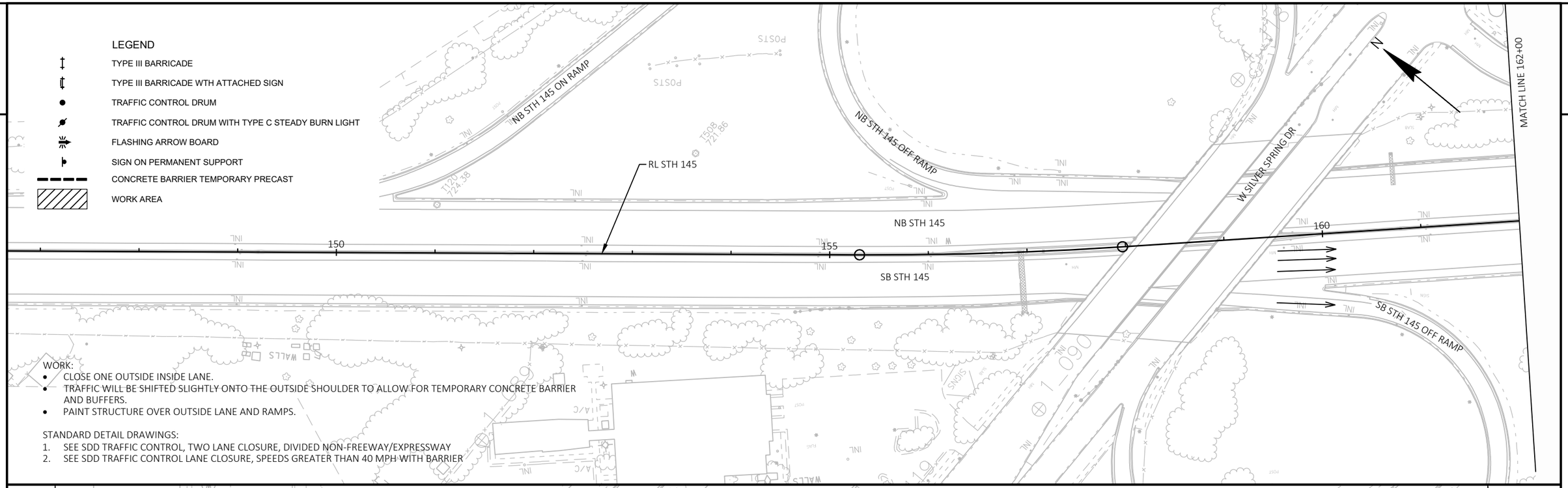
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B - STH 145	SHEET 38	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025106_TC.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2021 4:27 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

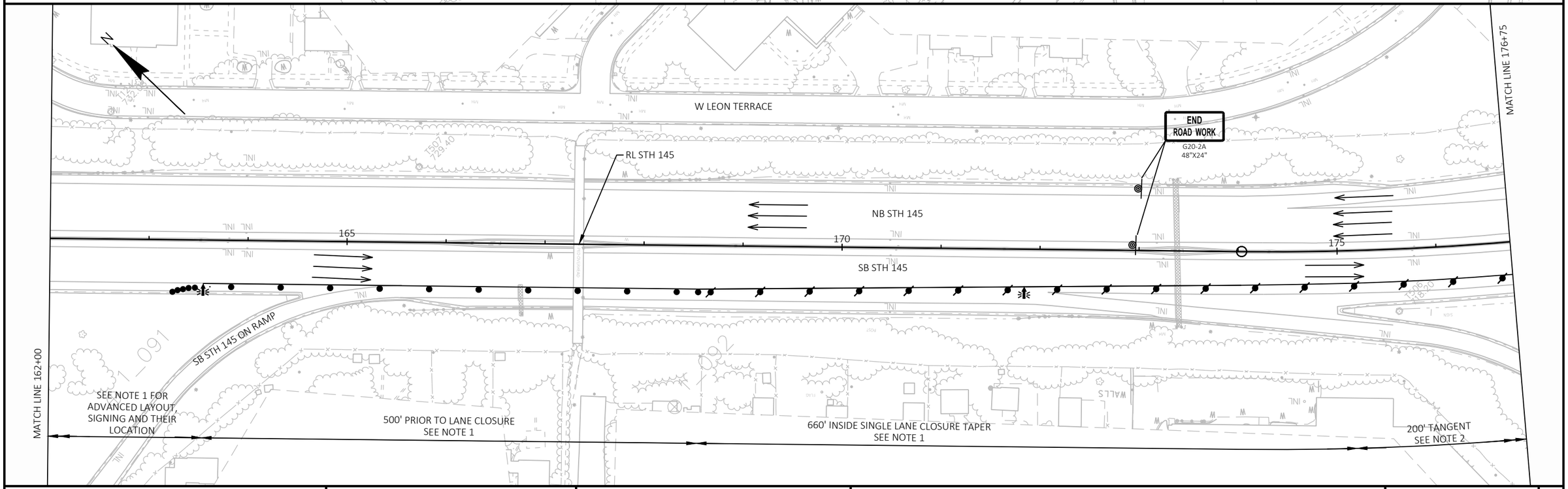


WORK:

- CLOSE ONE OUTSIDE INSIDE LANE.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER OUTSIDE LANE AND RAMPS.

STANDARD DETAIL DRAWINGS:

1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

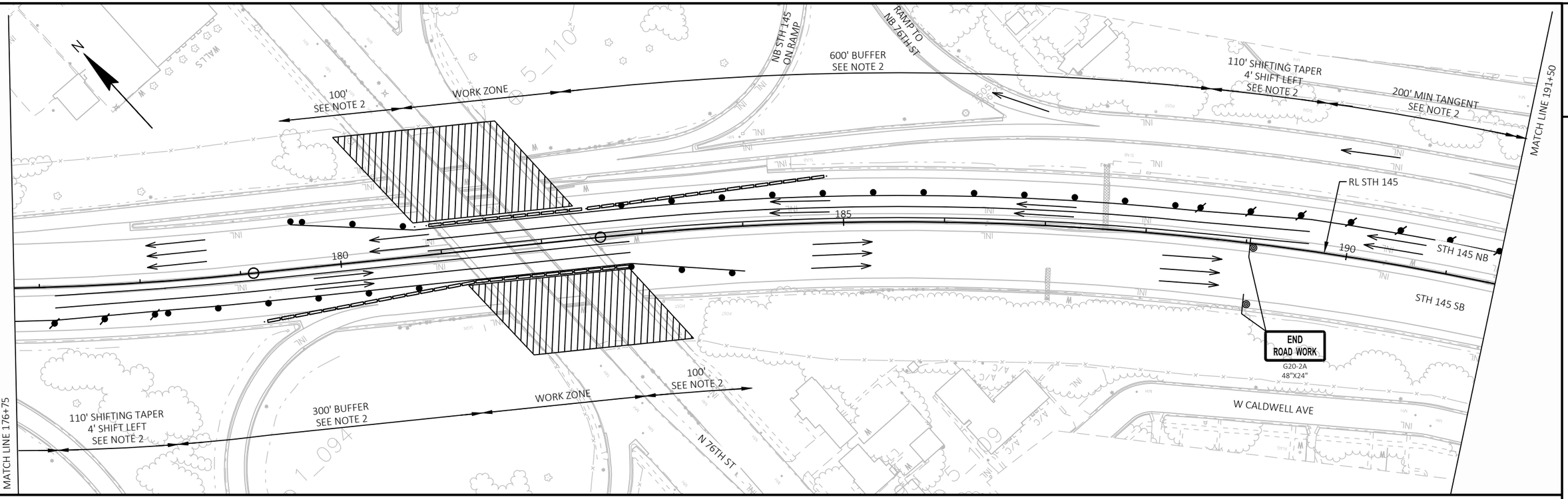


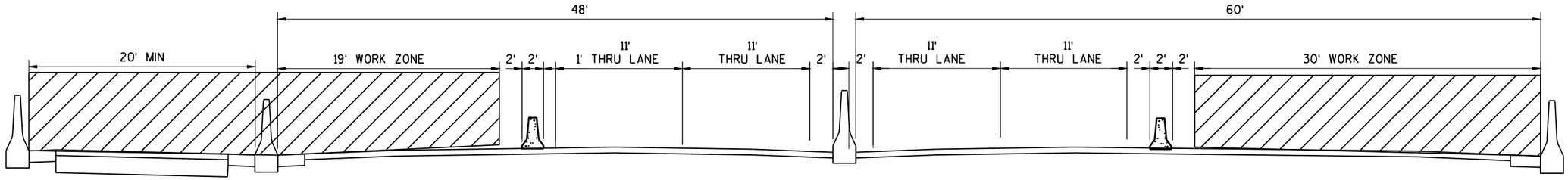
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 39	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025107_TC.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:29 PM PLOT BY : WATT, TIMOTHY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





STH 145 (LOOKING SOUTH)
STAGE 2
OUTSIDE LANE CLOSED BOTH
DIRECTIONS

WORK:
- CLOSE ONE OUTSIDE INSIDE LANE.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER OUTSIDE LANE AND RAMPS.

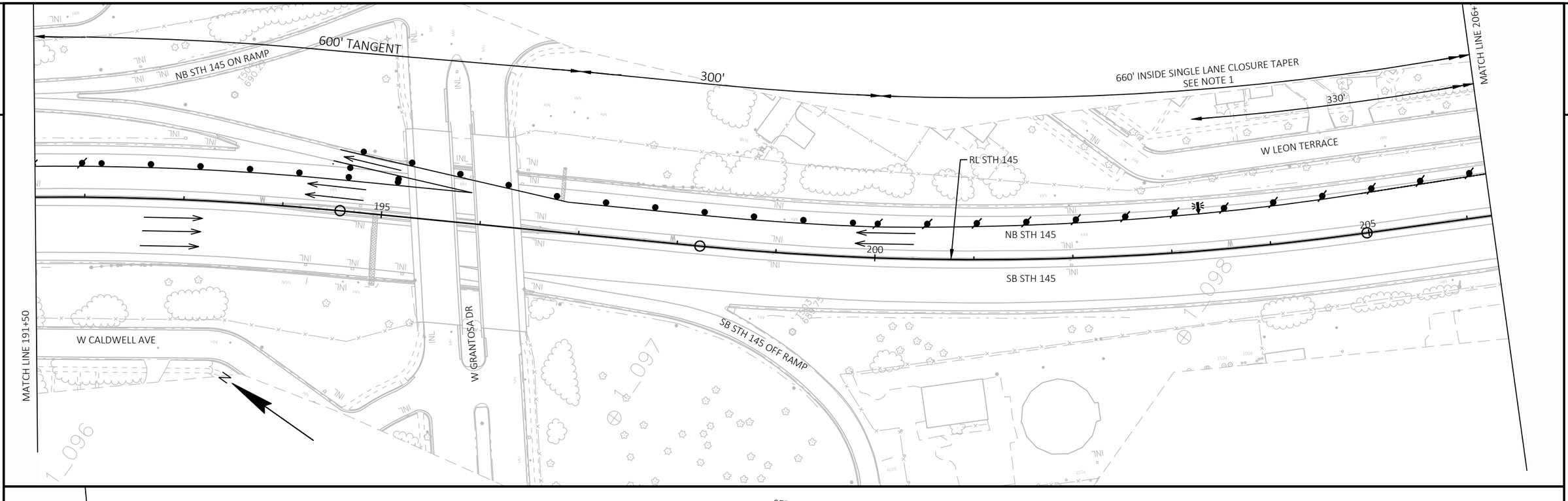
STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

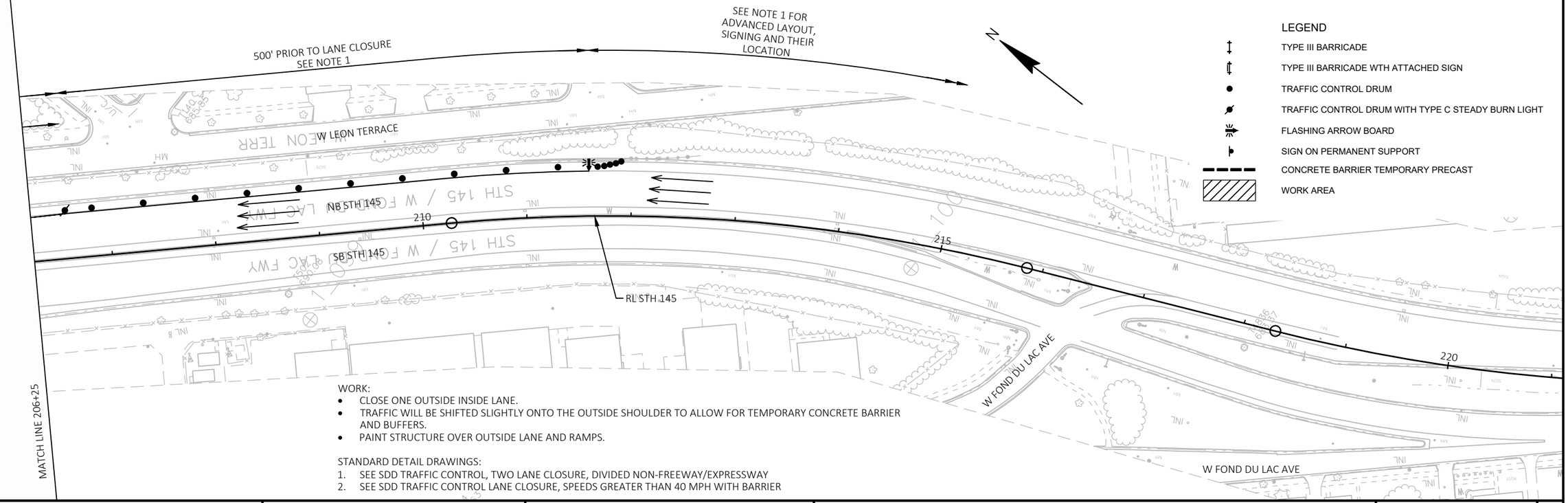
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 40	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025107_TC.DWG
LAYOUT NAME - 02
PLOT DATE : 2/19/2021 4:31 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2





WORK:

- CLOSE ONE OUTSIDE INSIDE LANE.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER OUTSIDE LANE AND RAMPS.

STANDARD DETAIL DRAWINGS:

1. SEE SDD TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
2. SEE SDD TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 41	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025107_TC.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2021 4:33 PM
PLOT BY : WATT, TIMOTHY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

N

BEGIN PROJECT
STA 143+89.65
X: 577607.623
Y: 330241.646

PC: 139+54.24
PT: 143+21.99
PC: 155+30.23
PT: 157+96.89
PC: 68+20.03
PT: 70+92.29
PC: 73+13.45
EP: 77+83.27
PI: 48+85.21
BP: 41+85.21
PC: 174+03.50
PT: 194+57.91
PC: 198+22.93

525
734.074
CP FENO WITH ALUMINUM CAP

526
719.159
CP FENO WITH ALUMINUM CAP

524
776.091
F1000SPK BERNSTEN FENO WITH ALUMINUM CAP

523
719.069
CP F1000SPK BERNSTEN FENO WITH ALUMINUM CAP

RL SILVER SPRING DR

RL STH 145

RL SILVER SPRING DRIVE - STA 58+79.70
= RL STH 145 - STA 158+78.30

RL 76th ST

RL 76th ST - STA 51+83.61
= RL STH 145 - STA 181+81.86

RL STH 145 NB ON RAMP

RL STH 145 SB ON RAMP

PCC: 4+16.00
PCC: 5+46.01
PCC: 6+17.00
PCC: 4+90.00
EP: 10+35.00
PT: 9+90.89
EP: 12+92.59
PC: 182+08.43
BP: 1+70.14
BP: 1+30.00
BP: 41+33.83

END PROJECT
STA 182+48.01
X: 580257.091
Y: 327450.469

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 42	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\027211_AD.DWG
LAYOUT NAME - 01

PLOT DATE : 2/19/2021 4:24 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

RL STH 145 SB ON RAMP

SB STH 145 ON RAMP

CONCRETE PAVEMENT APPROACH SLAB STA 50+43.17

EP: 10+35.00

EP: 12+92.59

R/L STH 145

MGS THRIE BEAM TRANSITION

CONCRETE PAVEMENT APPROACH SLAB STA 53+87.86

MGS GUARDRAIL 3

SAW AND MATCH SIDEWALK STA 54+50

B-40-255

SB 76TH ST PGL

76TH ST SB

BEGIN CONSTRUCTION STA 49+50 MATCH EXISTING BUTT JOINT

BP: 1+70.14

BP: 1+30.00

END CONSTRUCTION STA 55+00 MATCH EXISTING BUTT JOINT

R/L 76TH ST

76TH ST NB

MGS GUARDRAIL TERMINAL EAT POST 1 STA 54+88.19 9.5' RT

POST 5 STA 54+63.19 10.5' RT

REMOVE EXISTING GUARDRAIL

B-40-256

NB 76TH ST PGL

STH 145 SB

STH 145 NB

PC: 182+58.43

RL STH 145 NB ON RAMP

NB STH 145 ON RAMP

POST 9 STA 54+38.19 11.5' RT

N

LEGEND

- CONCRETE PAVEMENT APPROACH SLAB
- HMA PAVEMENT
- CONCRETE SIDEWALK 5-INCH

VPC STA 149+22.50 VPC EL 724.53

VPI STA 149+85.00 VPI EL 725.74

VPT STA 150+47.50 VPT EL 726.05

VPC STA 153+75.00 VPC EL 727.69

VPI STA 154+25.00 VPI EL 727.94

VPT STA 154+75.00 VPT EL 727.67

STA 155+00.03 EL 727.54

PROPOSED PROFILE

0.50%

1.93%

-0.53%

STRUCTURE B-40-0255

ORIGINAL GROUND

HP STA 154+23.56 HP EL 727.81

STA 149+13.80 EL 724.37

VCL = 125.00

K = 87.32

VCL = 100.00

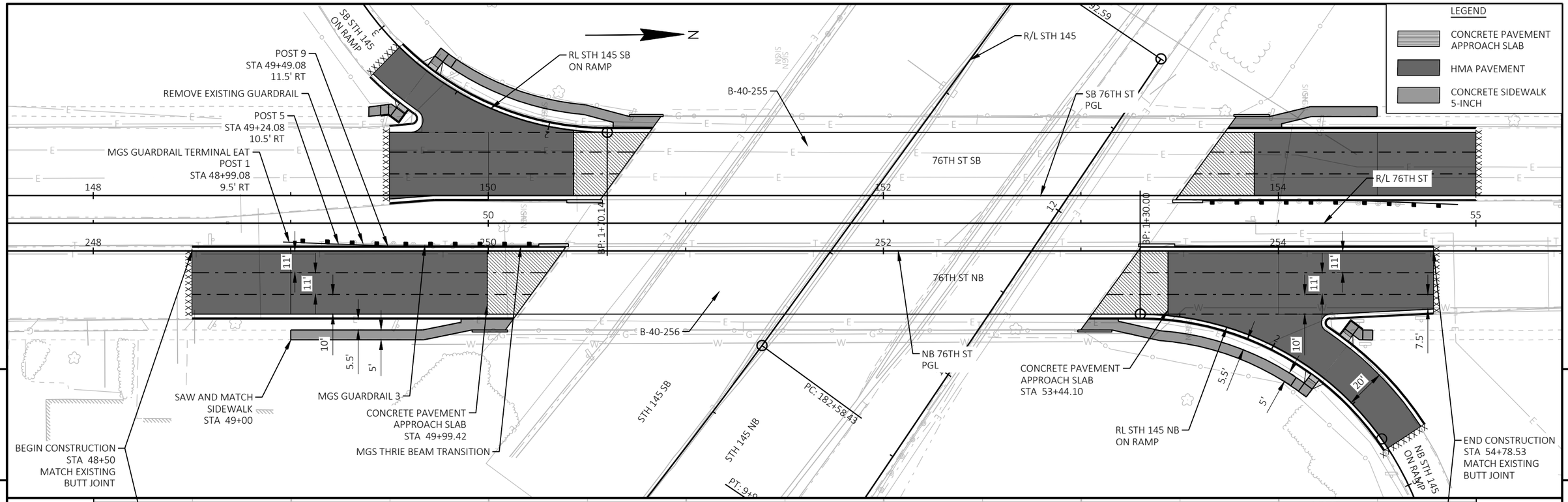
K = 97.27

EXISTING GRADE

PROPOSED GRADE

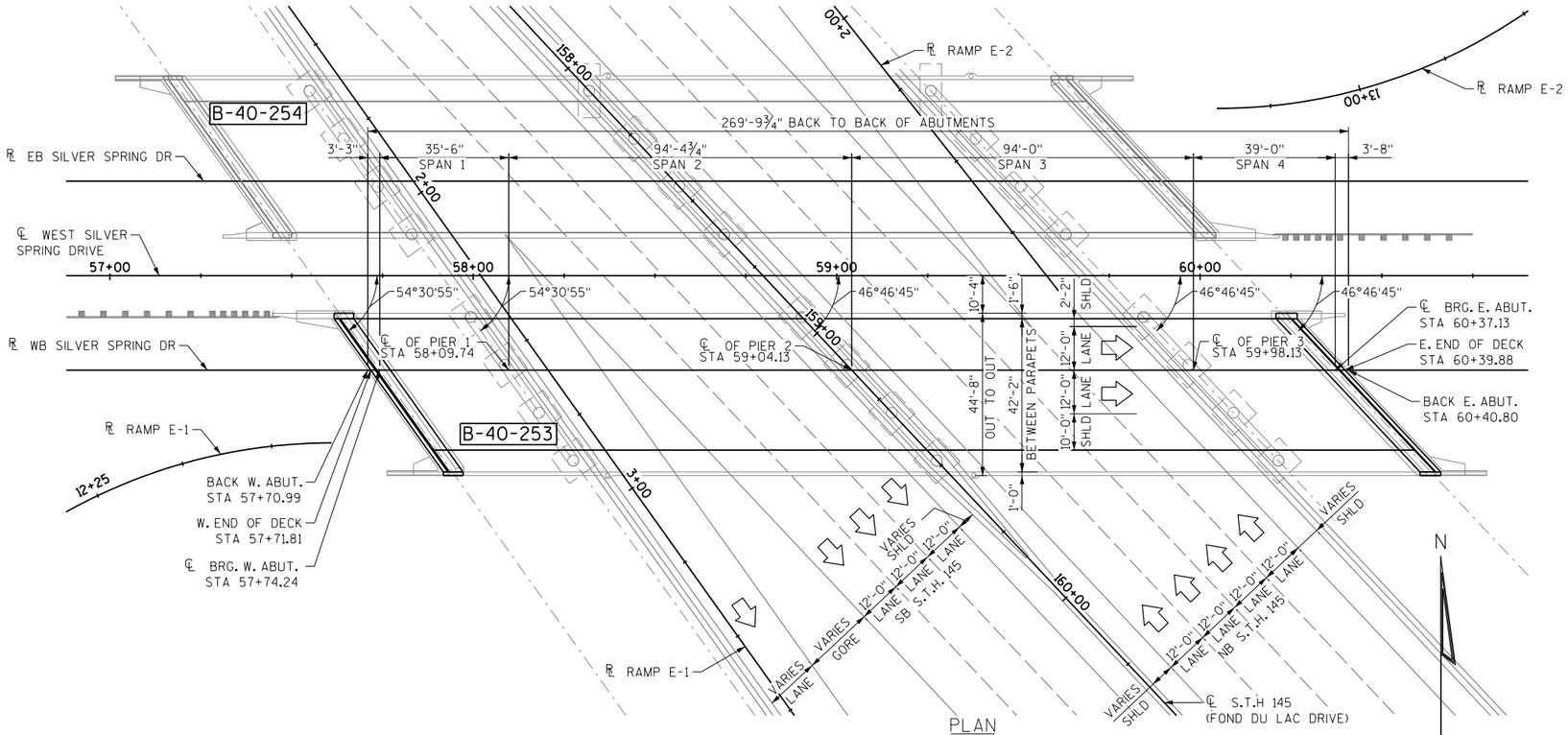
730 725 720 715

| | | |

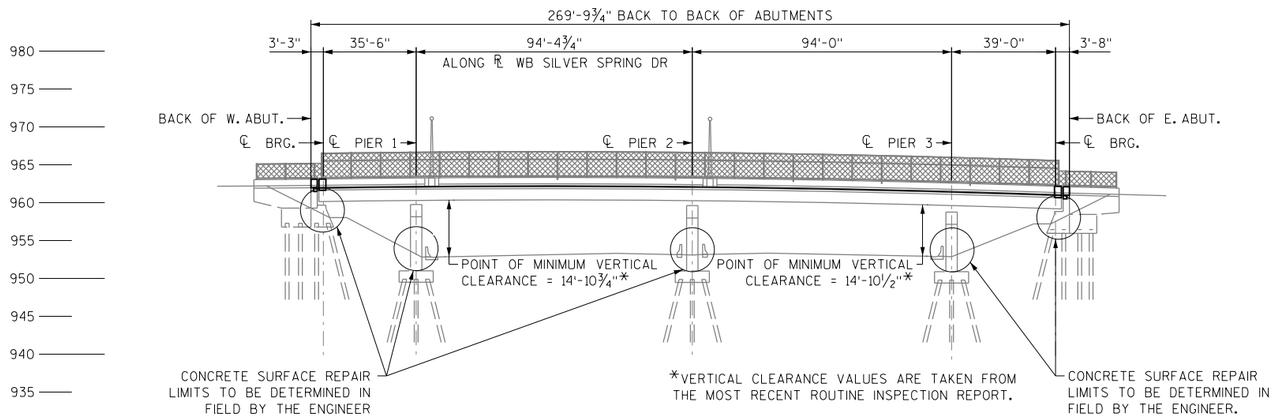


PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN AND PROFILE: 76TH ST NORTHBOUND	SHEET 44	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\050101_PP.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2021 4:25 PM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PLAN
(4 SPAN - STEEL GIRDERS)
CONCRETE OVERLAY



ELEVATION
LOOKING NORTHWEST ALONG ℄ STH 145

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-253) IS A 200'-3 1/16" LONG, 44'-8" WIDE 4 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 57+70.99 AND ENDS AT STA 60+39.88. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--

STATE PROJECT NUMBER
1360-13-70

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING FACTOR HSXX
OPERATING RATING FACTOR HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY: ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.
4. PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY ENGINEER. DECK PREPARATION AND FULL DEPTH REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS"
5. PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN UNIT.
6. ANY EXCATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE OVERLAY DECKS"
7. ALL CONCRETE REMOVAL NOT COVERED WITH CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.
8. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
9. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 2½" OF CONCRETE COVER.

   THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
10. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
11. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
13. ALL STATIONS AND ELEVATIONS ARE IN FEET.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

STH 181
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS & QUANTITIES
3. ~~STAGING PLAN~~
4. ~~STRIP SEAL EXPANSION JOINT~~
5. ~~COVER PLATE DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-253

W SILVER SPRING DR EB OVER STH 145

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY JAP	DESIGN CK'D. WJZ	DRAWN BY MRL	PLANS CK'D. WJZ

GENERAL PLAN & ELEVATION

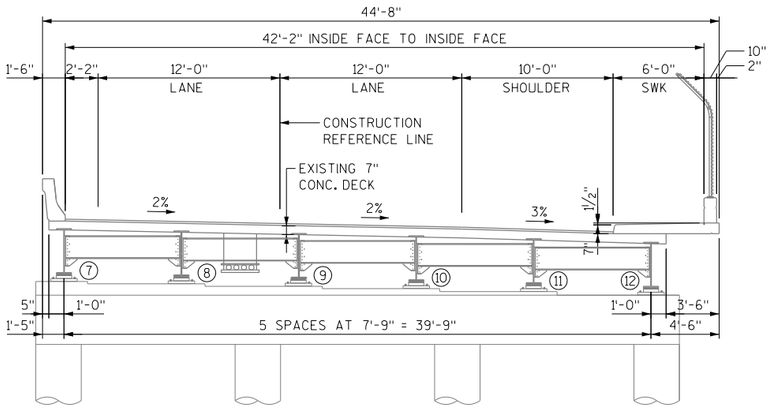
SHEET 1 OF 5
45

FILE= B-40-253_10_GP&E.DGN
SCALE = 1:40

8

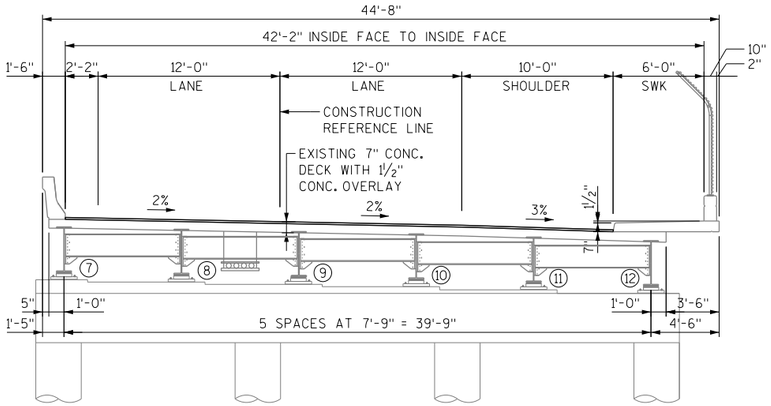
STATE PROJECT NUMBER

1360-13-70



EXISTING TYPICAL SECTION THRU STRUCTURE B-40-253

(LOOKING EAST)



PROPOSED SECTION THRU STRUCTURE B-40-253

(LOOKING EAST)

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	WEST ABUT.	PIER 1	PIER 2	PIER 3	EAST ABUT.	SUPER	TOTAL
502.3101	EXPANSION DEVICE B-40-253	LF	-	-	-	-	-	-	-
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-
502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-
505.0906	BAR COUPLERS NO. 6	EACH	-	-	-	-	-	-	-
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	-	-	-
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	-	-	-	-
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	-	-	-	-	-	-	-
509.1000	JOINT REPAIR	SY	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	-	-	-
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	-	-	-	-
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-253	SY	-	-	-	-	-	-	-
509.9020.S	EPOXY CRACK SEALING	LF	-	-	-	-	-	-	-
509.9050.S	CLEANING PARAPETS	LF	-	-	-	-	-	-	-
	NON-BID ITEMS								
	JOINT FILLER - ½", ¾", AND 4"								
	EXTRUDED POLYSTYRENE FILLER - 4"								

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-253

DRAWN BY MRL | PLANS CK'D. WJZ

TYPICAL SECTIONS & QUANTITIES

SHEET 2 OF 5

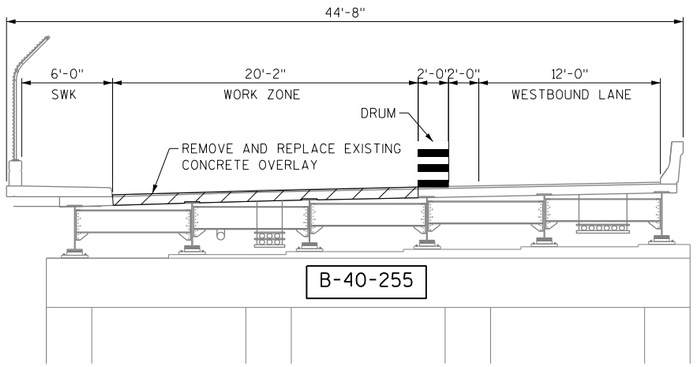
46

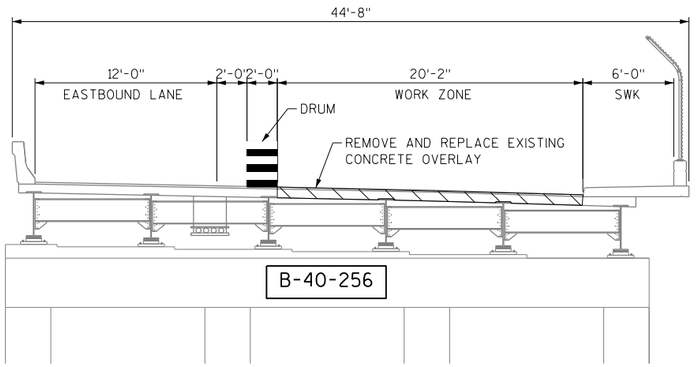
FILE= B-40-253_20_TYP&QTY.DGN
SCALE = 1:10

8

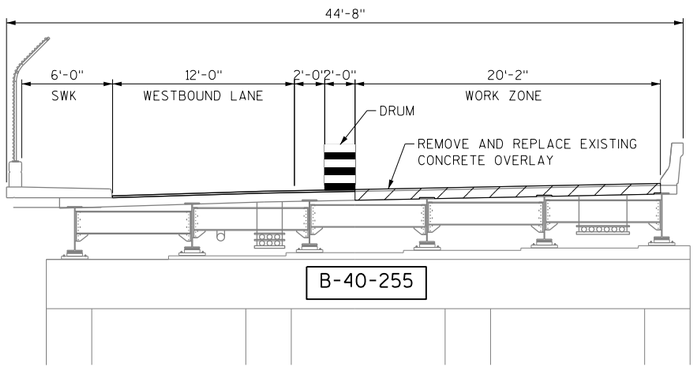
8

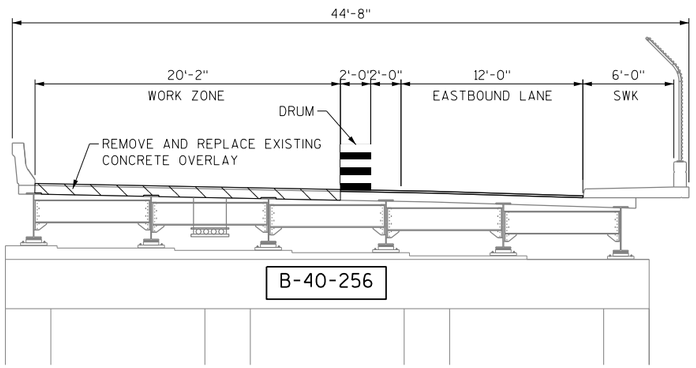
STATE PROJECT NUMBER
1360-13-70





STAGE 1: SECTION
(LOOKING EAST)





STAGE 2: SECTION
(LOOKING EAST)

8

8

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-253

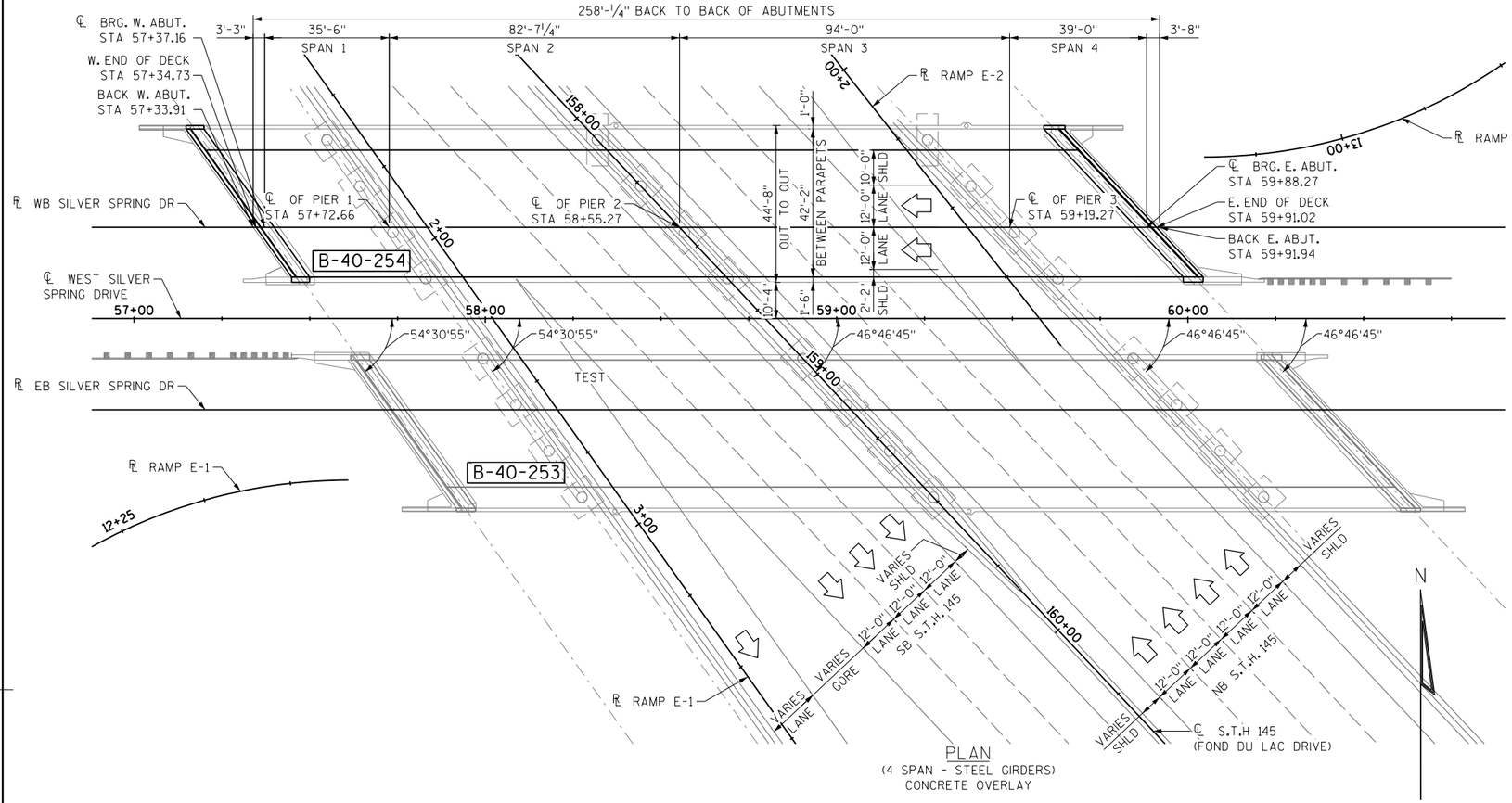
DRAWN BY MRL | PLANS CK'D. WJZ

STAGIN PLAN

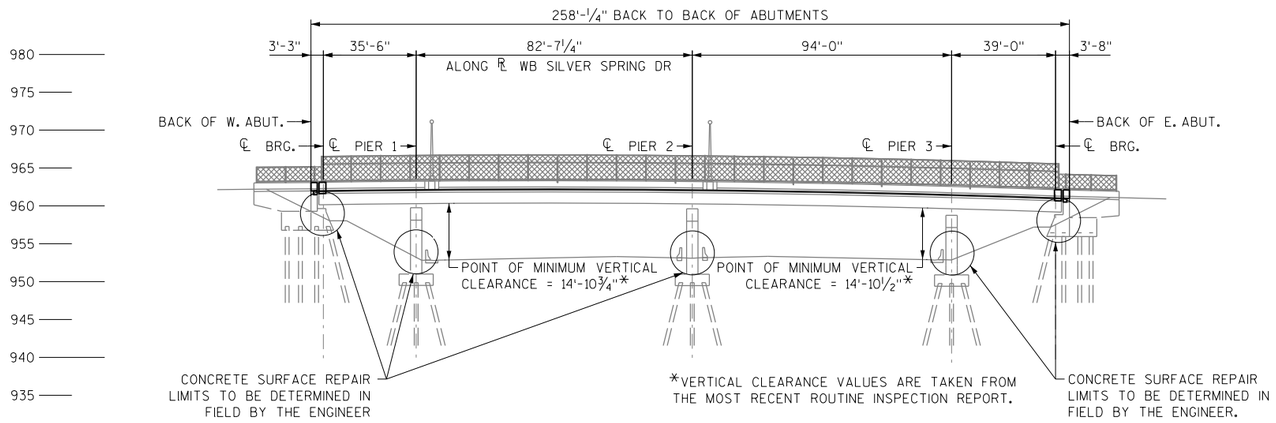
SHEET 3 OF 5

47

FILE= B-40-253_30_STAGING.DGN
SCALE = 1:10



PLAN
(4 SPAN - STEEL GIRDERS)
CONCRETE OVERLAY



ELEVATION
LOOKING NORTHWEST ALONG ℄ STH 145

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-254) IS A 200'-3 1/16" LONG, 44'-8" WIDE 4 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 57+70.99 AND ENDS AT STA 60+39.88. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING FACTOR HSXX
OPERATING RATING FACTOR HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY: ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.
4. PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY ENGINEER. DECK PREPARATION AND FULL DEPTH REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS"
5. PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN UNIT.
6. ANY EXCATION REQUIRED TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE OVERLAY DECKS"
7. ALL CONCRETE REMOVAL NOT COVERED WITH CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.
8. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
9. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 2½" OF CONCRETE COVER.

   THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
10. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
11. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
13. ALL STATIONS AND ELEVATIONS ARE IN FEET.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

STH 181
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS & QUANTITIES
3. ~~STAGING PLAN~~
4. ~~STRIP SEAL EXPANSION JOINT~~
5. ~~COVER PLATE DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

DRAFT PRELIMINARY PLANS

STATE PROJECT NUMBER
1360-13-70

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-254

W SILVER SPRING DR WB OVER STH 145

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		

DESIGNED BY	JAP	DESIGN CK'D.	WJZ	DRAWN BY	MRL	PLANS CK'D.	WJZ

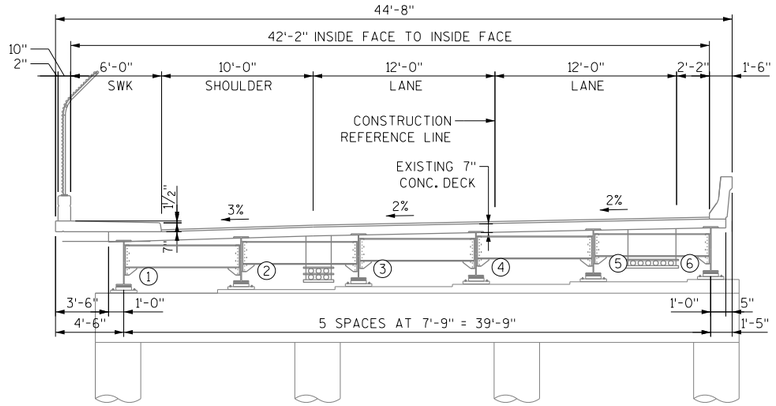
GENERAL PLAN & ELEVATION

SHEET 1 OF 5
48

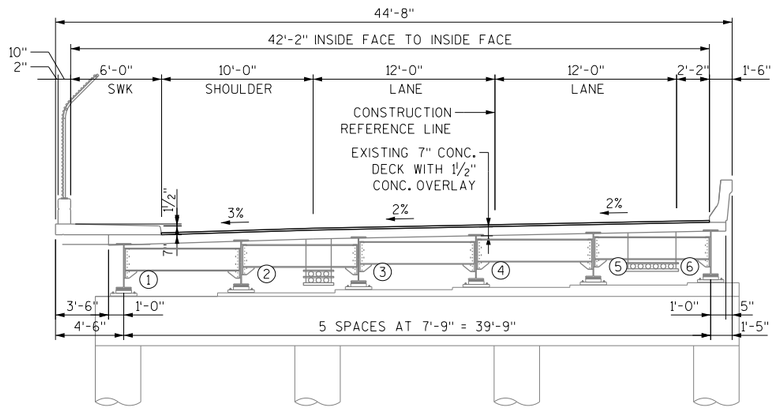
8

8

FILE= B-40-254_10_GP&E.DGN
SCALE = 1:40



EXISTING TYPICAL SECTION THRU STRUCTURE B-40-254
(LOOKING EAST)



PROPOSED SECTION THRU STRUCTURE B-40-254
(LOOKING EAST)

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	WEST ABUT.	PIER 1	PIER 2	PIER 3	EAST ABUT.	SUPER	TOTAL
502.3101	EXPANSION DEVICE B-40-253	LF	-	-	-	-	-	-	-
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-
502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-
505.0906	BAR COUPLERS NO. 6	EACH	-	-	-	-	-	-	-
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	-	-	-
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	-	-	-	-
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	-	-	-	-	-	-	-
509.1000	JOINT REPAIR	SY	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	-	-	-
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	-	-	-	-
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-253	SY	-	-	-	-	-	-	-
509.9020.S	EPOXY CRACK SEALING	LF	-	-	-	-	-	-	-
509.9050.S	CLEANING PARAPETS	LF	-	-	-	-	-	-	-
	NON-BID ITEMS								
	JOINT FILLER - ½", ¾", AND 4"								
	EXTRUDED POLYSTYRENE FILLER - 4"								

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-254

DRAWN BY MRL | PLANS CK'D. WJZ

TYPICAL SECTIONS & QUANTITIES

SHEET 2 OF 5

49

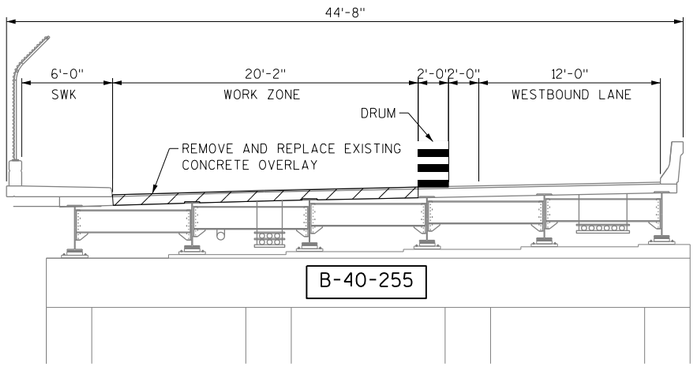
FILE= B-40-254_20_TYP&QTY.DGN
SCALE = 1:10

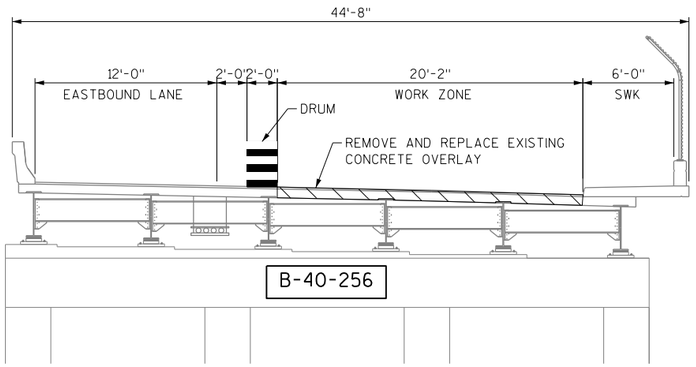
8

8

STATE PROJECT NUMBER

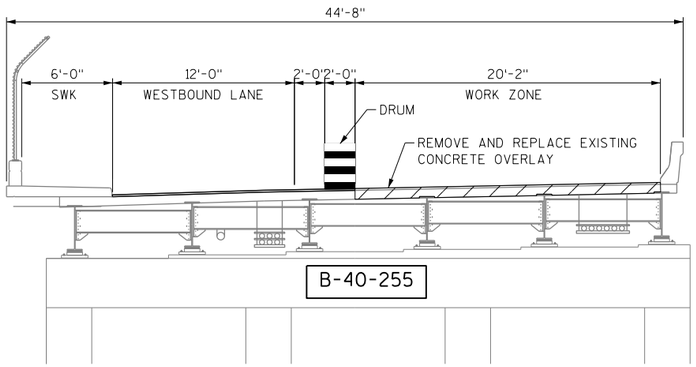
1360-13-70

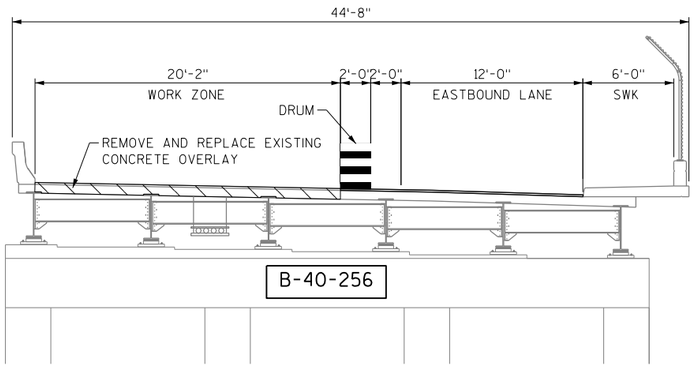




STAGE 1: SECTION

(LOOKING EAST)





STAGE 2: SECTION

(LOOKING EAST)

8

8

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-254

DRAWN BY MRL | PLANS CK'D. WJZ

STAGING PLAN

SHEET 3 OF 5

50

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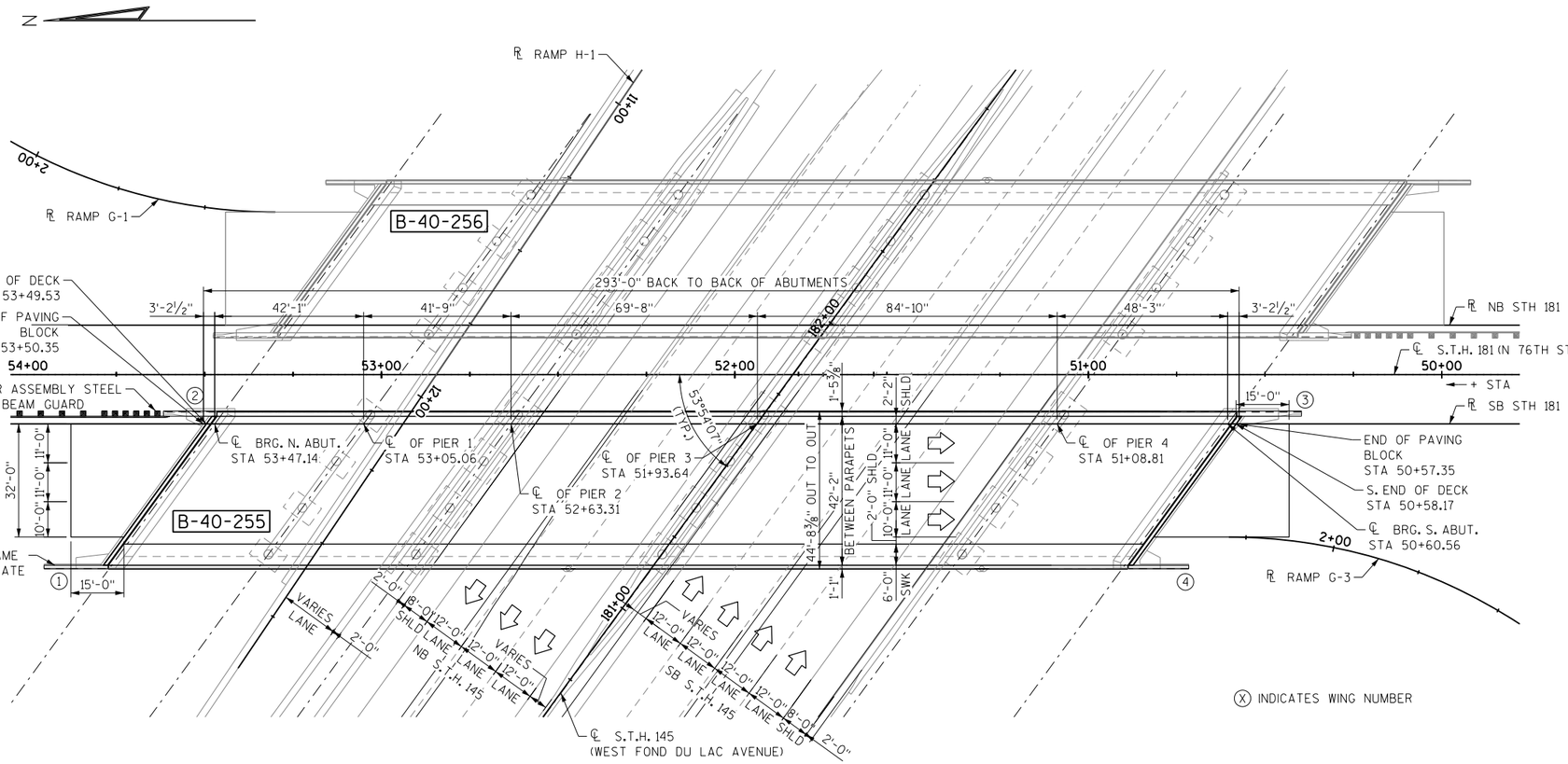
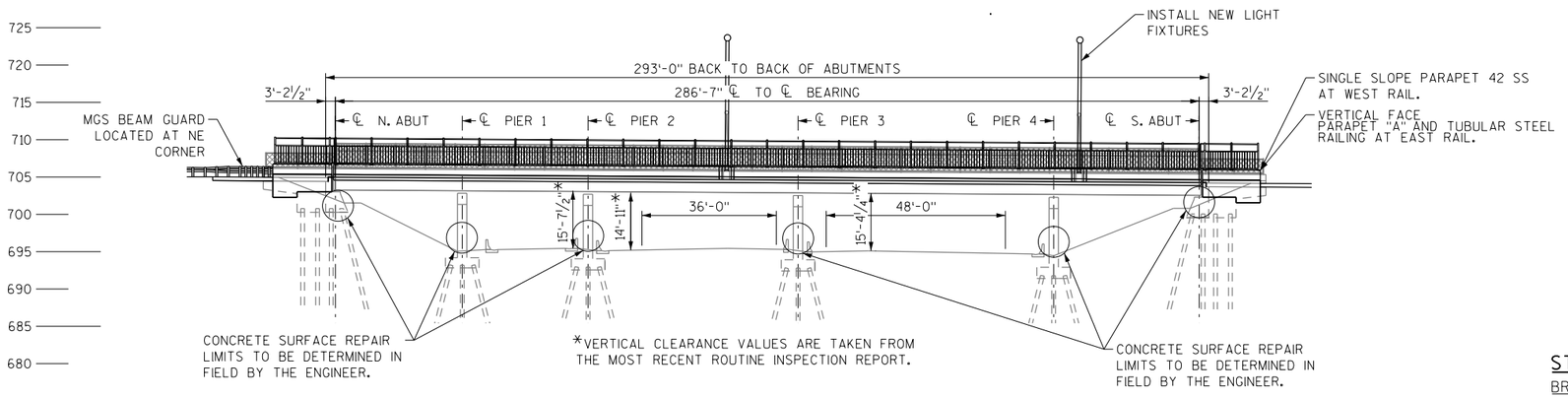
STATE PROJECT NUMBER
1360-13-70



PLAN

(5 SPAN - STEEL GIRDERS)
DECK REPLACEMENT, POLYMER OVERLAY, AND REPAINTING



ELEVATION

LOOKING SOUTHEAST ALONG ℄ STH 145

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING FACTOR HSXX
OPERATING RATING FACTOR HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY: ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
4. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 2½" OF CONCRETE COVER.
5. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
6. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
7. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
9. ALL STATIONS AND ELEVATIONS ARE IN FEET.
10. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE DECK REPLACEMENT DETAILS.

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-255) IS A 293'-0" LONG, 44'-8" WIDE 5 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 50+66.10 AND ENDS AT STA 53+59.10. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

STH 181
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS & DETAILS
3. STAGING PLAN
4. ~~ABUTMENT REMOVALS AND DETAILS~~
5. ~~ABUTMENT MODIFICATIONS~~
6. ~~GIRDER AND SUPERSTRUCTURE DETAILS~~
7. ~~SUPERSTRUCTURE REINFORCEMENT~~
8. ~~SUPERSTRUCTURE DETAILS~~
9. ~~SINGLE SLOPE PARAPET 42SS~~
10. ~~VERTICAL FACE PARAPET "A"~~
11. ~~TUBULAR STEEL RAILING SCREENING~~
12. ~~STRIP SEAL EXPANSION JOINT~~
13. ~~COVER PLATE DETAILS~~
14. ~~LIGHT SUPPORT DETAILS~~
15. ~~CONDUIT DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-255

STH 181 NB (N 76TH ST) OVER STH 175

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY	JAP	DESIGN CK'D.	WJZ
DRAWN BY	MRL	PLANS CK'D.	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 15
51

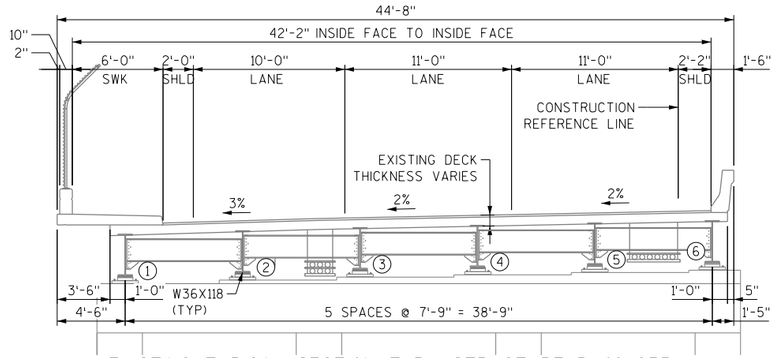
8

8

FILE = B-40-255_10_GP&E.DGN
SCALE = 1:40

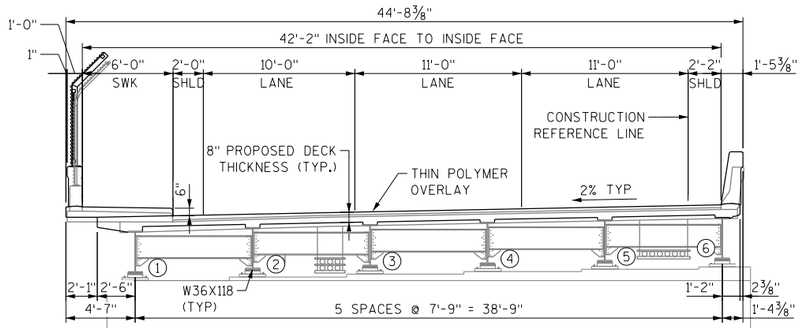
STATE PROJECT NUMBER

1360-13-70



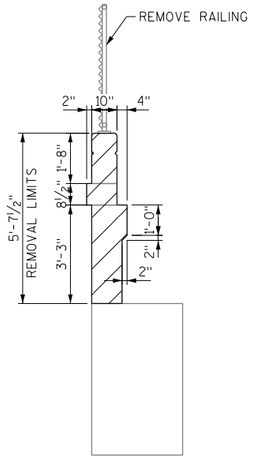
EXISTING TYPICAL SECTION THRU STRUCTURE B-40-255

(LOOKING NORTH)

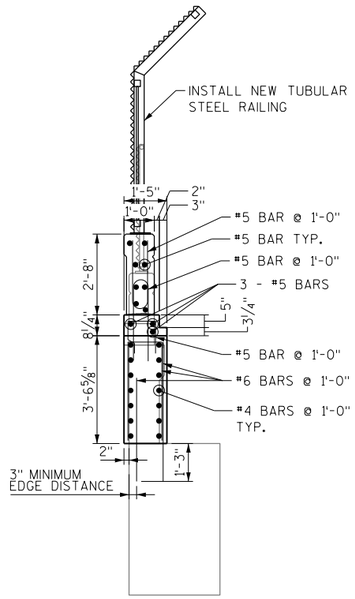


PROPOSED TYPICAL SECTION THRU STRUCTURE B-40-255

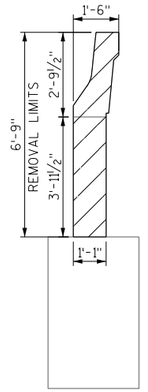
(LOOKING NORTH)



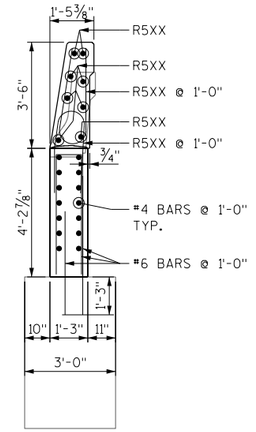
SECTION THROUGH EAST WING REMOVALS



SECTION THROUGH EAST WING REPAIRS



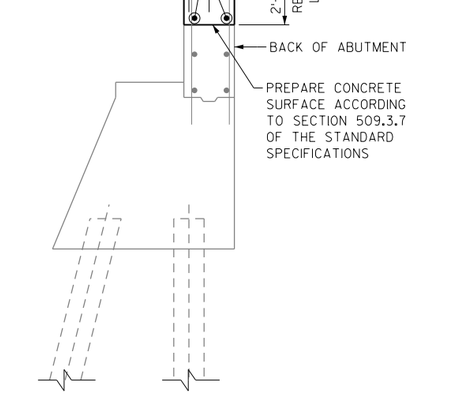
SECTION THROUGH WEST WING REMOVALS



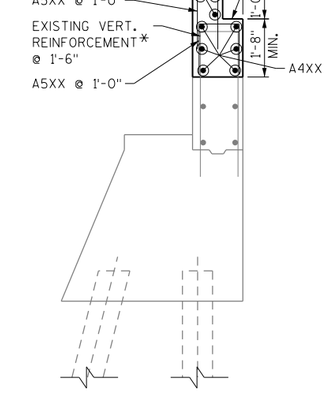
SECTION THROUGH WEST WING REPAIRS

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	S ABUT	PIER 1	PIER 2	PIER 3	PIER 4	N ABUT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 50+31	LS	-	-	-	-	-	-	-	-
203.0225.S	DEBRIS CONTAINMENT B-40-255	LS	-	-	-	-	-	-	-	-
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-255	LS	-	-	-	-	-	-	-	-
210.1500	BACKFILL STRUCTURE TYPE A	TON	-	-	-	-	-	-	-	-
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	-	-	-	-	-
502.3101	EXPANSION DEVICE	LF	-	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-	-
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	-	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-	-
509.5100.S	POLYMER OVERLAY	SY	-	-	-	-	-	-	-	-
513.4091	RAILING TUBULAR SCREENING	LF	-	-	-	-	-	-	-	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	-	-	-	-	-
517.0600	PAINTING EPOXY SYSTEM B-40-255	LS	-	-	-	-	-	-	-	-
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-40-255	LS	-	-	-	-	-	-	-	-
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-255	LS	-	-	-	-	-	-	-	-
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-255	LS	-	-	-	-	-	-	-	-
517.6001.S	PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	-	-	-	-
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	-	-	-	-	-	-	-
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	-	-	-	-
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	-	-	-	-	-	-	-	-
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-	-	-	-	-	-	-	-
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	-	-	-	-	-	-	-	-
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	-	-	-	-
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	-	-	-	-	-	-	-	-
SPV.0060.XX	CLEANING PAINTING AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-	-
	NON-BID ITEMS									
	PREFORMED JOINT FILLER - 1/2", 3/4"									
	NON-BITUMINOUS JOINT FILLER									
	NAME PLATE									

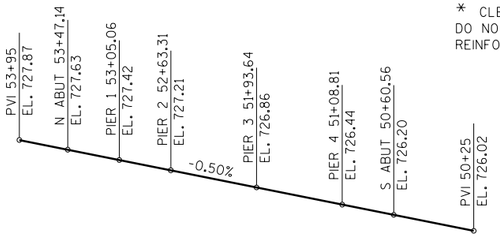


SECTION THROUGH ABUTMENT - REMOVALS



SECTION THROUGH ABUTMENT - REPAIRS

* CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.



PROFILE GRADE LINE STH 181 SB

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY MRL | PLANS CK'D. WJZ

TYPICAL SECTIONS & DETAILS

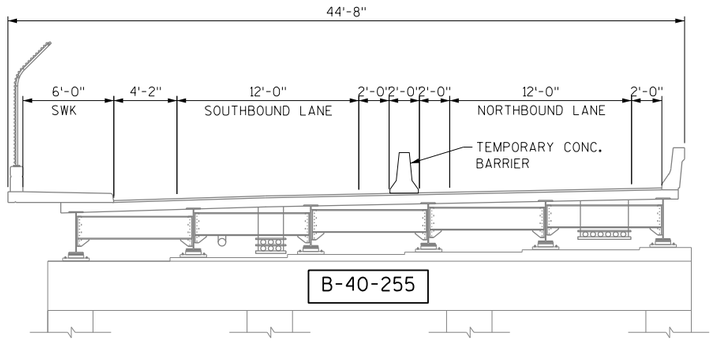
SHEET 2 OF 15

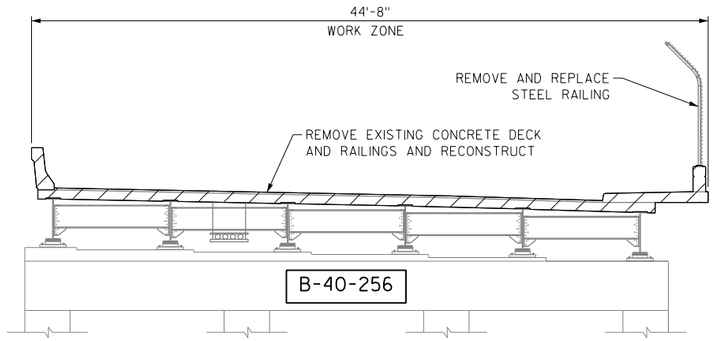
52

8

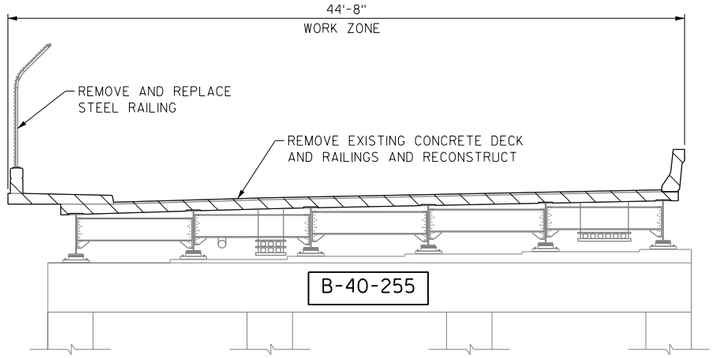
FILE= B-40-255_20_TYP&QTY.DGN

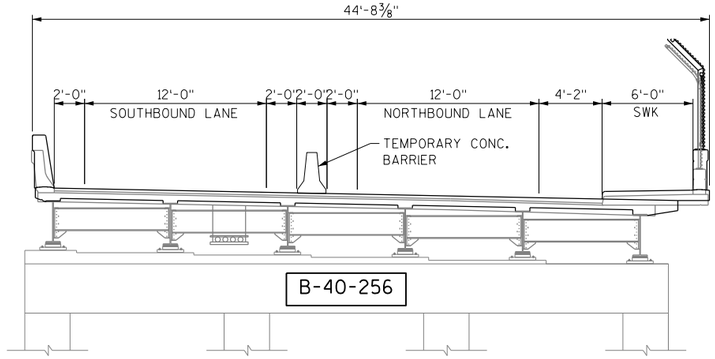
STATE PROJECT NUMBER
1360-13-70





STAGE 1: SECTION
(LOOKING NORTH)





STAGE 2: SECTION
(LOOKING NORTH)

8

8

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY MRL | PLANS CK'D. WJZ

STAGING PLAN

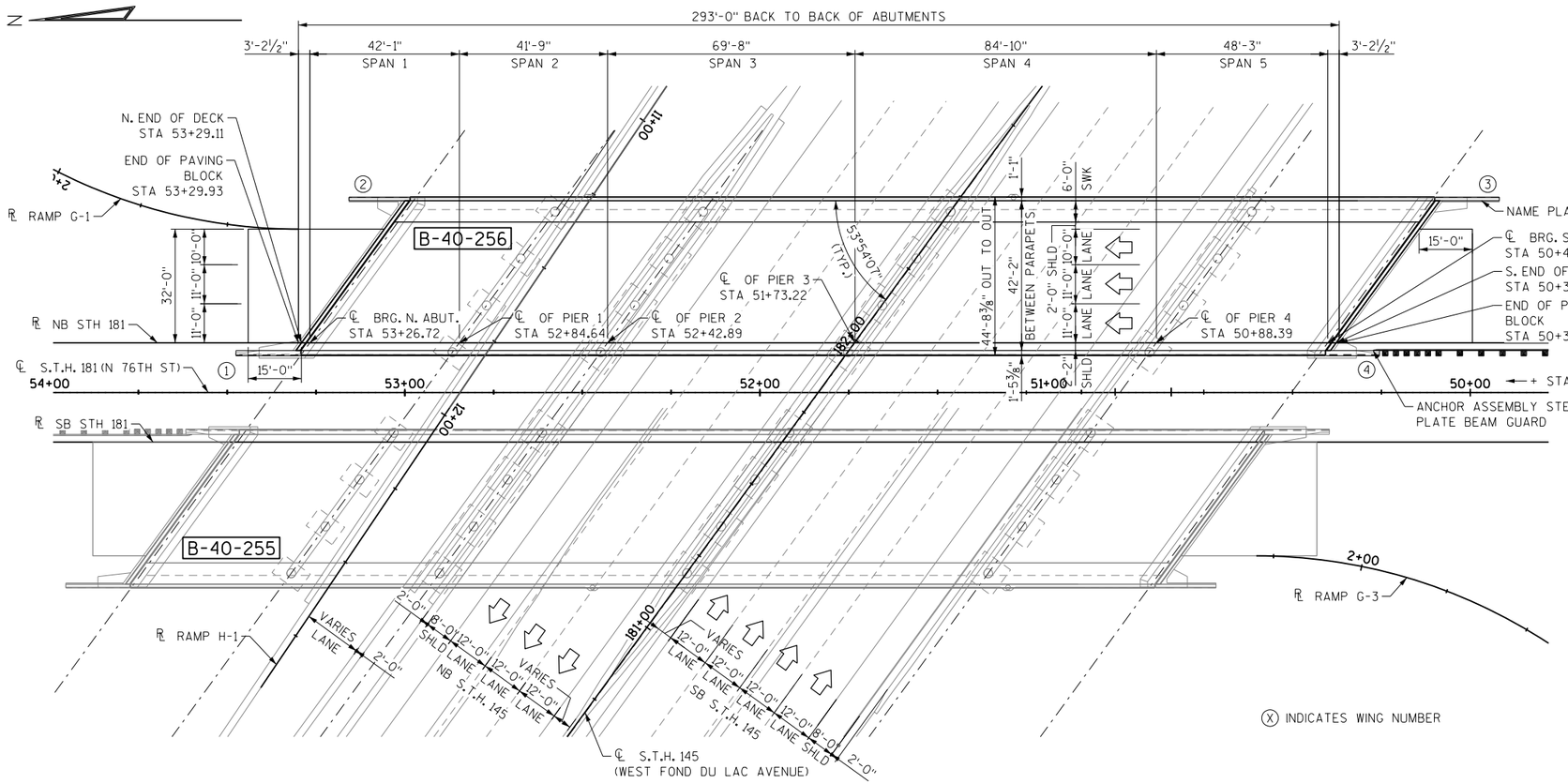
SHEET 3 OF 15

53

FILE= B-40-255_30_STAGING.DGN
SCALE = 1:10

STATE PROJECT NUMBER

1360-13-70

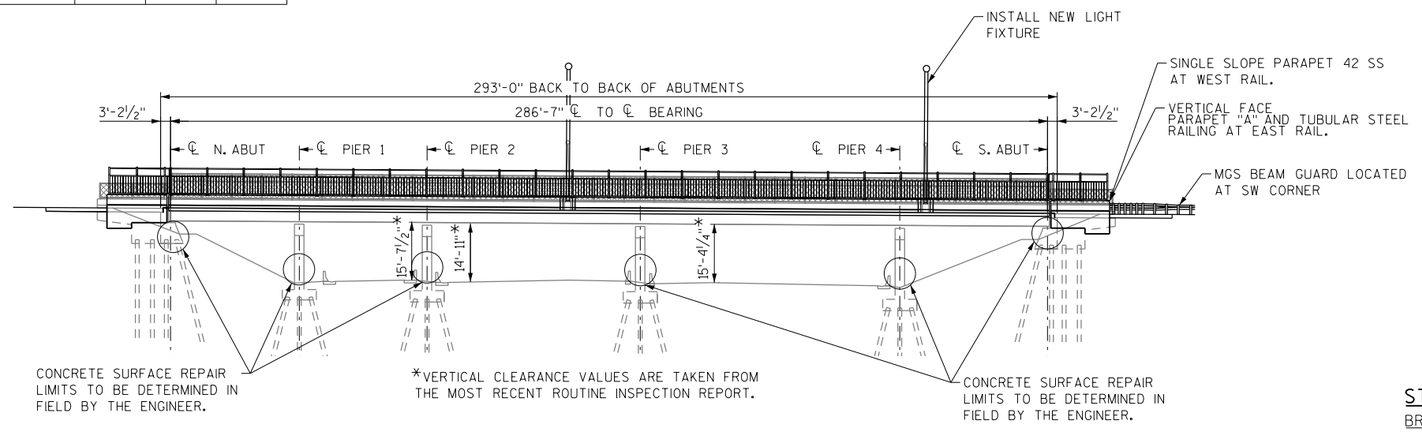


PLAN

(5 SPAN - STEEL GIRDERS)
DECK REPLACEMENT, POLYMER OVERLAY, AND REPAINTING

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--



ELEVATION

LOOKING SOUTHEAST ALONG ℄ STH 145

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING FACTOR HSXX
OPERATING RATING FACTOR HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY: ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
4. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 2½" OF CONCRETE COVER.
5. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
6. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
7. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
9. ALL STATIONS AND ELEVATIONS ARE IN FEET.
10. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE DECK REPLACEMENT DETAILS.

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-256) IS A 293'-0" LONG, 44'-8" WIDE 5 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 50+28.18 AND ENDS AT STA 53+21.18. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

STH 181
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS & DETAILS
3. STAGING PLAN
4. ~~ABUTMENT REMOVALS AND DETAILS~~
5. ~~ABUTMENT MODIFICATIONS~~
6. ~~GIRDER AND SUPERSTRUCTURE DETAILS~~
7. ~~SUPERSTRUCTURE REINFORCEMENT~~
8. ~~SUPERSTRUCTURE DETAILS~~
9. ~~SINGLE SLOPE PARAPET 42SS~~
10. ~~VERTICAL FACE PARAPET "A"~~
11. ~~TUBULAR STEEL RAILING SCREENING~~
12. ~~STRIP SEAL EXPANSION JOINT~~
13. ~~COVER PLATE DETAILS~~
14. ~~LIGHT SUPPORT DETAILS~~
15. ~~CONDUIT DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-256

STH 181 SB (N 76TH ST) OVER STH 175

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY JAP	DESIGN CK'D. WJZ	DRAWN BY MRL	PLANS CK'D. WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 15

54

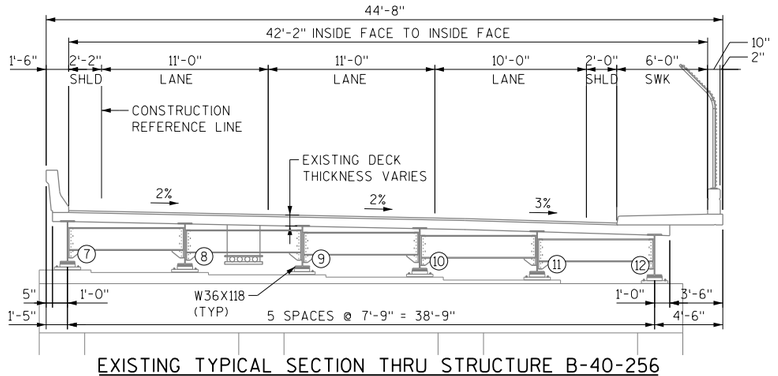
FILE = B-40-256_10_GP&E.DGN
SCALE = 1:40

8

8

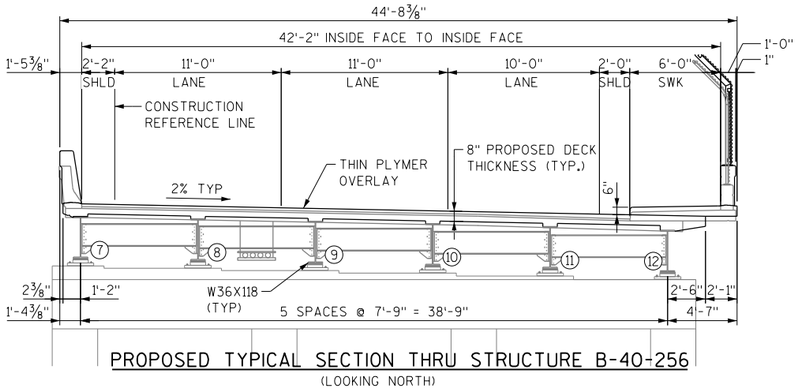
STATE PROJECT NUMBER

1360-13-70



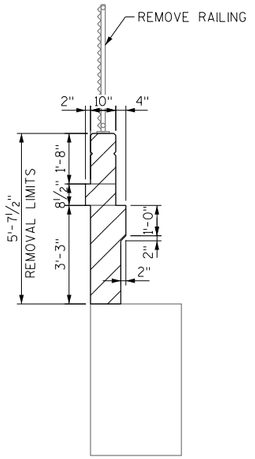
EXISTING TYPICAL SECTION THRU STRUCTURE B-40-256

(LOOKING NORTH)

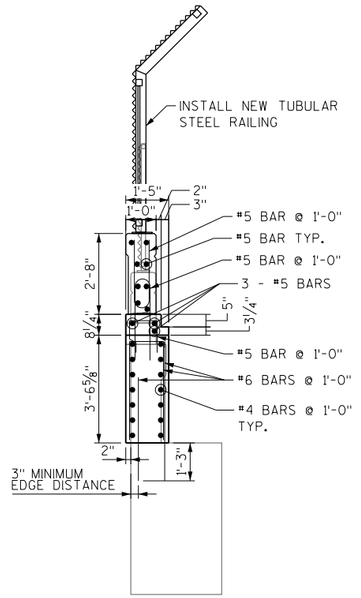


PROPOSED TYPICAL SECTION THRU STRUCTURE B-40-256

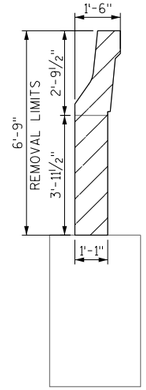
(LOOKING NORTH)



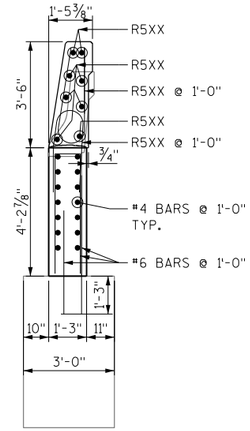
SECTION THROUGH WEST WING REMOVALS



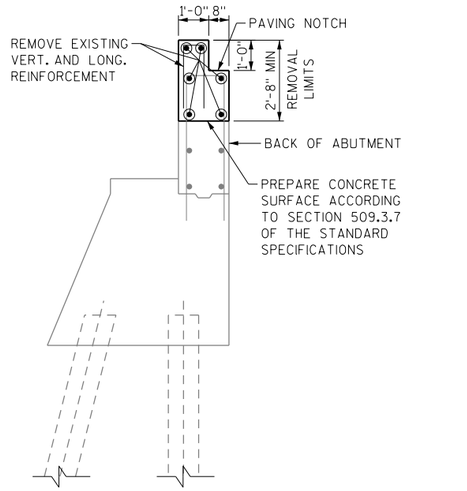
SECTION THROUGH WEST WING REPAIRS



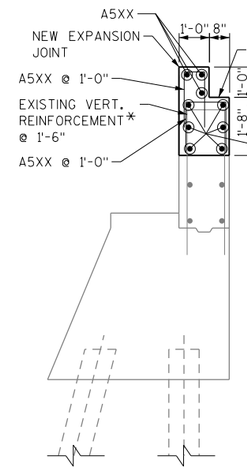
SECTION THROUGH EAST WING REMOVALS



SECTION THROUGH EAST WING REPAIRS



SECTION THROUGH ABUTMENT - REMOVALS

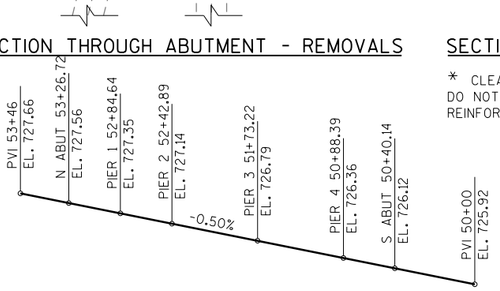


SECTION THROUGH ABUTMENT - REPAIRS

* CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	S ABUT	PIER 1	PIER 2	PIER 3	PIER 4	N ABUT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 50+31	LS	-	-	-	-	-	-	-	-
203.0225.S	DEBRIS CONTAINMENT B-40-256	LS	-	-	-	-	-	-	-	-
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-256	LS	-	-	-	-	-	-	-	-
210.1500	BACKFILL STRUCTURE TYPE A	TON	-	-	-	-	-	-	-	-
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	-	-	-	-	-
502.3101	EXPANSION DEVICE	LF	-	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-	-
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	-	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-	-
509.5100.S	POLYMER OVERLAY	SY	-	-	-	-	-	-	-	-
213.4091	RAIILING TUBULAR SCREENING	LF	-	-	-	-	-	-	-	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	-	-	-	-	-
517.0600	PAINTING EPOXY SYSTEM B-40-256	LS	-	-	-	-	-	-	-	-
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-40-256	LS	-	-	-	-	-	-	-	-
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-256	LS	-	-	-	-	-	-	-	-
517.4500.S	NEGATIVE PRESSURE CONTAININMENT AND COLLECTION OF WASTE MATERIALS B-40-256	LS	-	-	-	-	-	-	-	-
517.6001.S	PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	-	-	-	-
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	-	-	-	-	-	-	-
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	-	-	-	-
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	-	-	-	-	-	-	-	-
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-	-	-	-	-	-	-	-
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	-	-	-	-	-	-	-	-
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	-	-	-	-
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	-	-	-	-	-	-	-	-
SPV.0060.XX	CLEANING PAINTING AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-	-
	NON-BID ITEMS									
	PREFORMED JOINT FILLER - ½", ¾"									
	NON-BITUMINOUS JOINT FILLER									
	NAME PLATE									



PROFILE GRADE LINE STH 181 NB

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY MRL | PLANS CK'D. WJZ

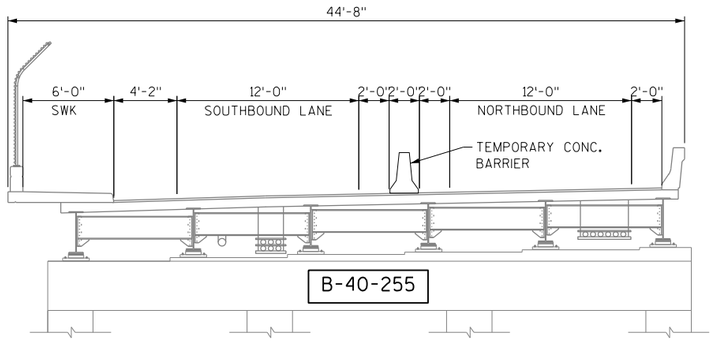
TYPICAL SECTIONS & DETAILS 55

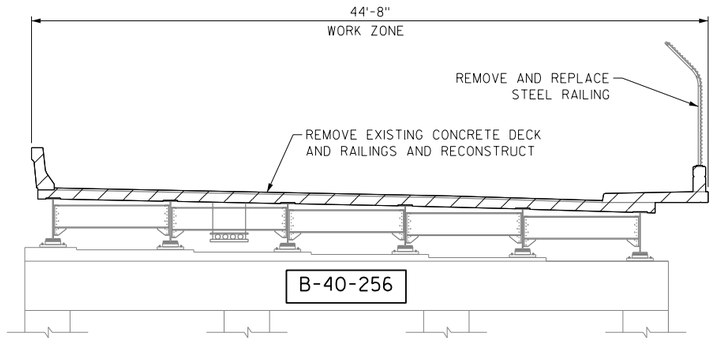
SHEET 2 OF 15

8

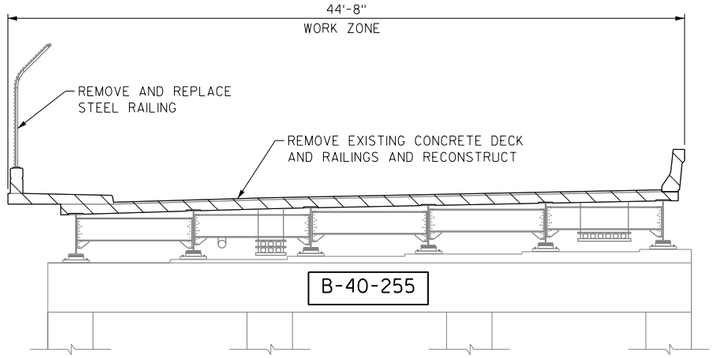
FILE: B-40-256_20_TYP&QTY_DGN

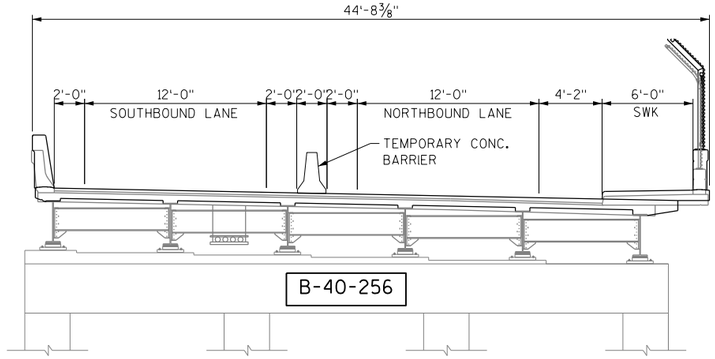
STATE PROJECT NUMBER
1360-13-70





STAGE 1: SECTION
(LOOKING NORTH)





STAGE 2: SECTION
(LOOKING NORTH)

8

8

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY MRL | PLANS CK'D. WJZ

STAGING PLAN

SHEET 3 OF 15

56

FILE= B-40-256_30_STAGING.DGN
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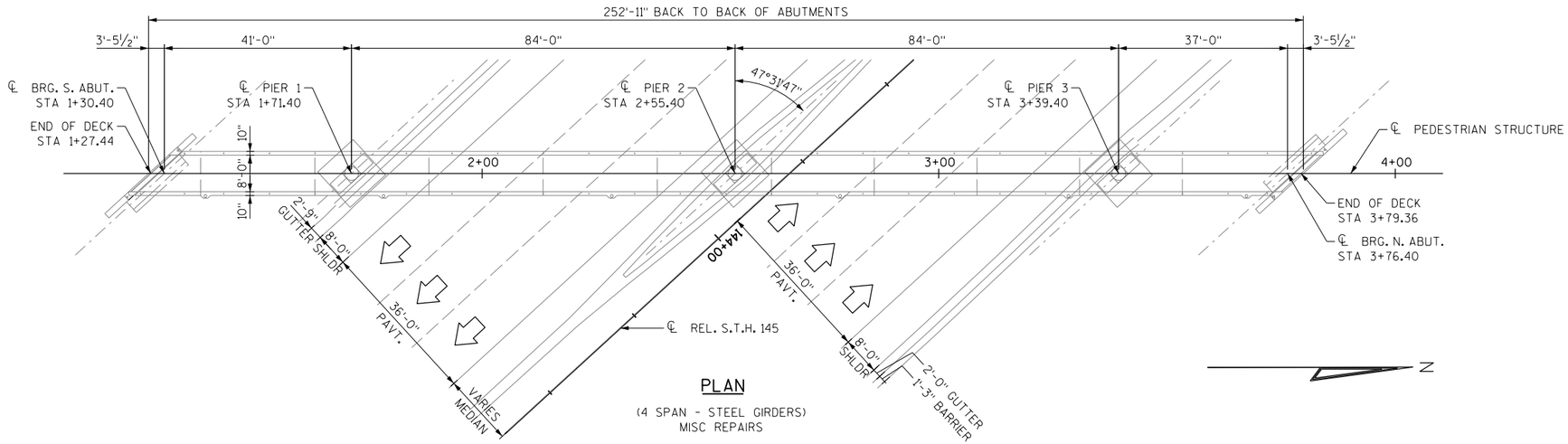
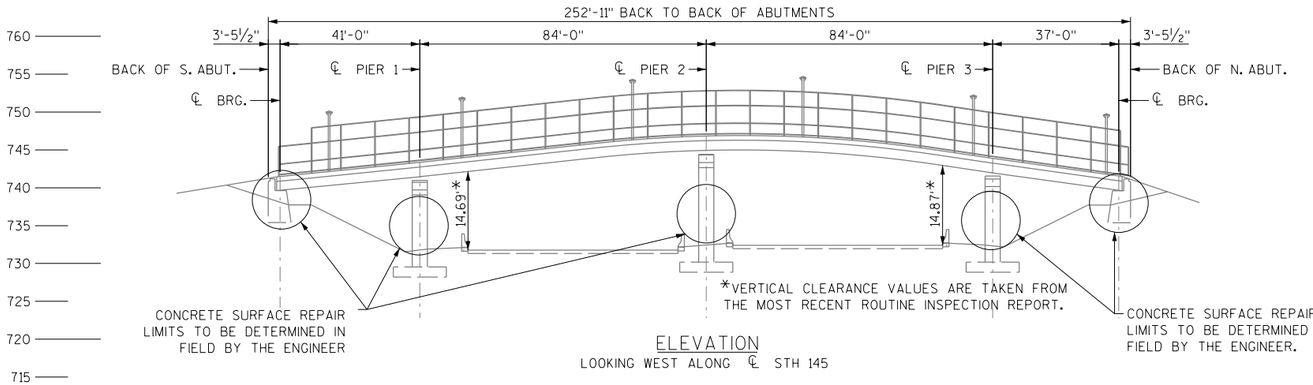
STATE PROJECT NUMBER
1360-13-70



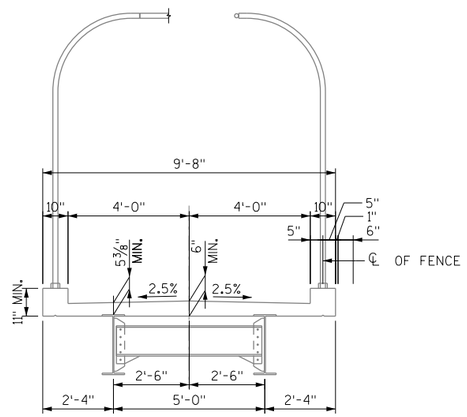
PLAN

(4 SPAN - STEEL GIRDERS)
MISC REPAIRS



ELEVATION

LOOKING WEST ALONG ℄ STH 145



EXISTING SECTION

(LOOKING NORTH)

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	S ABUT	N ABUT	SUPER	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF				-
SPV.0105.XX	FENCE REPAIRS	LS				
SPV.0165.XX	UNDERDECK CONCRETE REMOVAL	SF				

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
5. ALL STATIONS AND ELEVATIONS ARE IN FEET.

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-297) IS A 252'-11" LONG, 9'-8" WIDE 4 SPAN STEEL GIRDER PEDESTRIAN BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 1+26.94 AND ENDS AT STA 3+79.86. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. ~~DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

DRAFT PRELIMINARY PLANS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-297

PEDESTRIAN BRIDGE OVER STH 175

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		

DESIGNED BY	JAP	DESIGN CK'D.	WJZ	DRAWN BY	MRL	PLANS CK'D.	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 2
57

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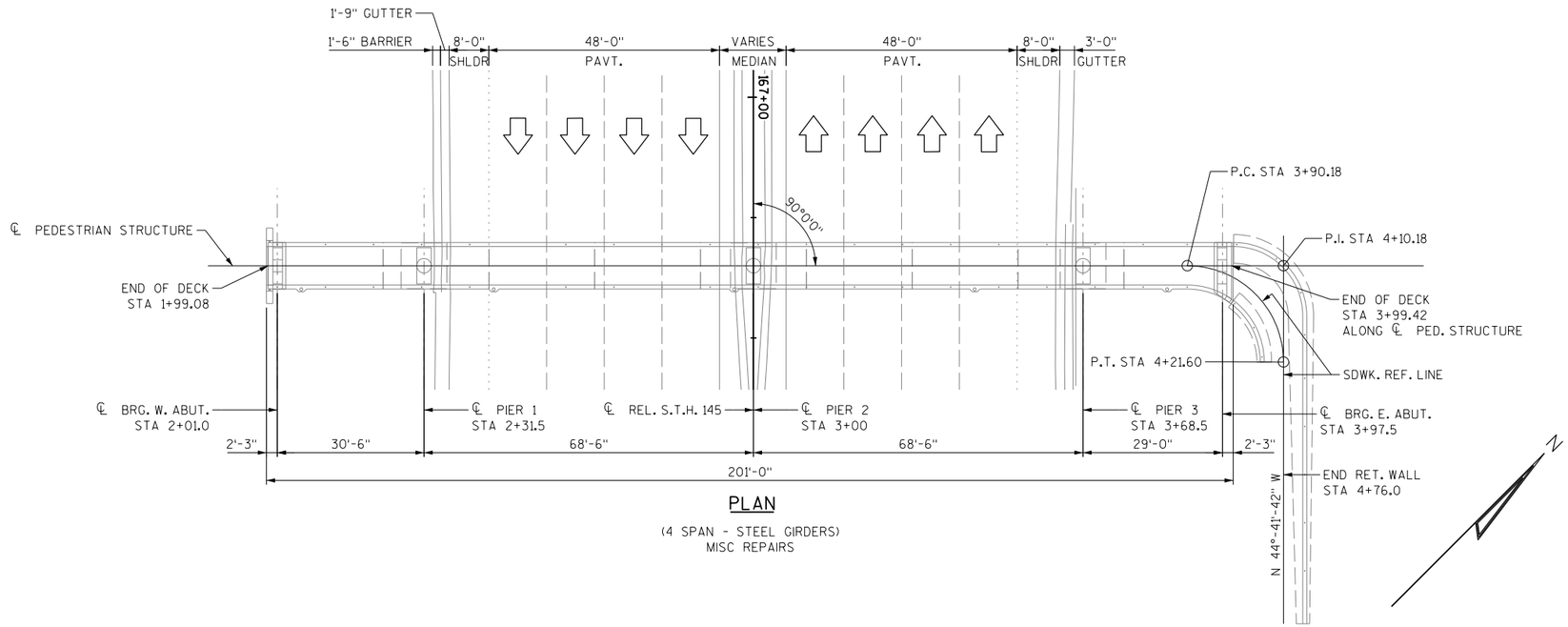
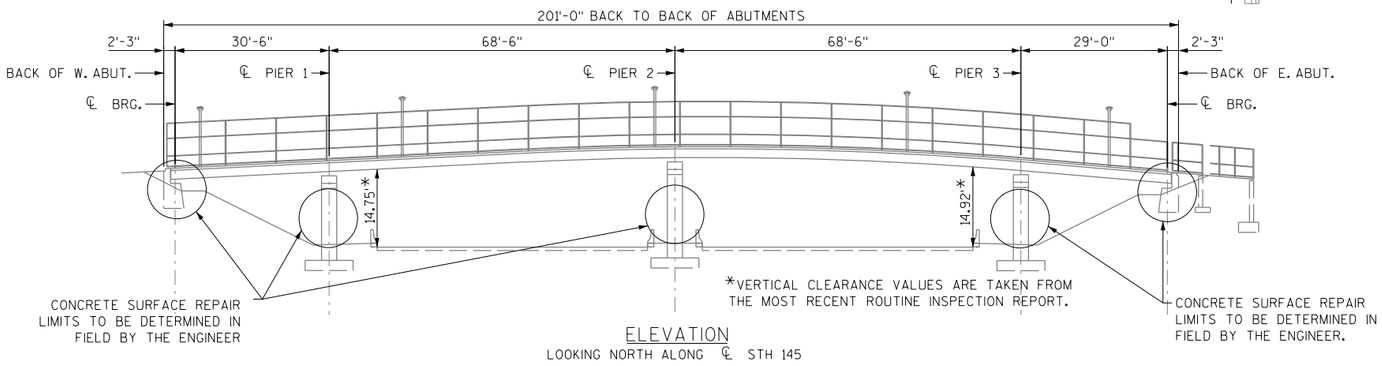


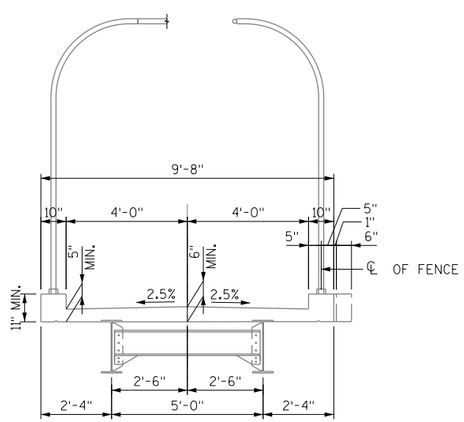
PLAN

(4 SPAN - STEEL GIRDERS)
MISC REPAIRS



ELEVATION

LOOKING NORTH ALONG ℄ STH 145



EXISTING SECTION

(LOOKING EAST)

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	S ABUT	N ABUT	SUPER	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF				-
SPV.0105.XX	FENCE REPAIRS	LS				
SPV.0165.XX	UNDERDECK CONCRETE REMOVAL	SF				

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
--	--	--	--	--
--	--	--	--	--

DRAFT PRELIMINARY PLANS

STATE PROJECT NUMBER
1360-13-70

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
5. ALL STATIONS AND ELEVATIONS ARE IN FEET.

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-297) IS A 252'-11" LONG, 9'-8" WIDE 4 SPAN STEEL GIRDER PEDESTRIAN BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 1+26.94 AND ENDS AT STA 3+79.86. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

TRAFFIC DATA

STH 145
AADT (BUILD YEAR) = XX,XXX
AADT (BUILD YEAR + 20) = XX,XXX
DESIGN SPEED = XX MPH.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. ~~DETAILS~~

NOTE: STRIKETHROUGH INDICATES DRAWING IS NOT INCLUDED WITH THIS SUBMITTAL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-298

PEDESTRIAN BRIDGE OVER STH 175

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	JAP	DESIGN CK'D.	WJZ	DRAWN BY	MRL	PLANS CK'D.	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

58

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8

FILE= B-40-298_10_GP&E.DGN
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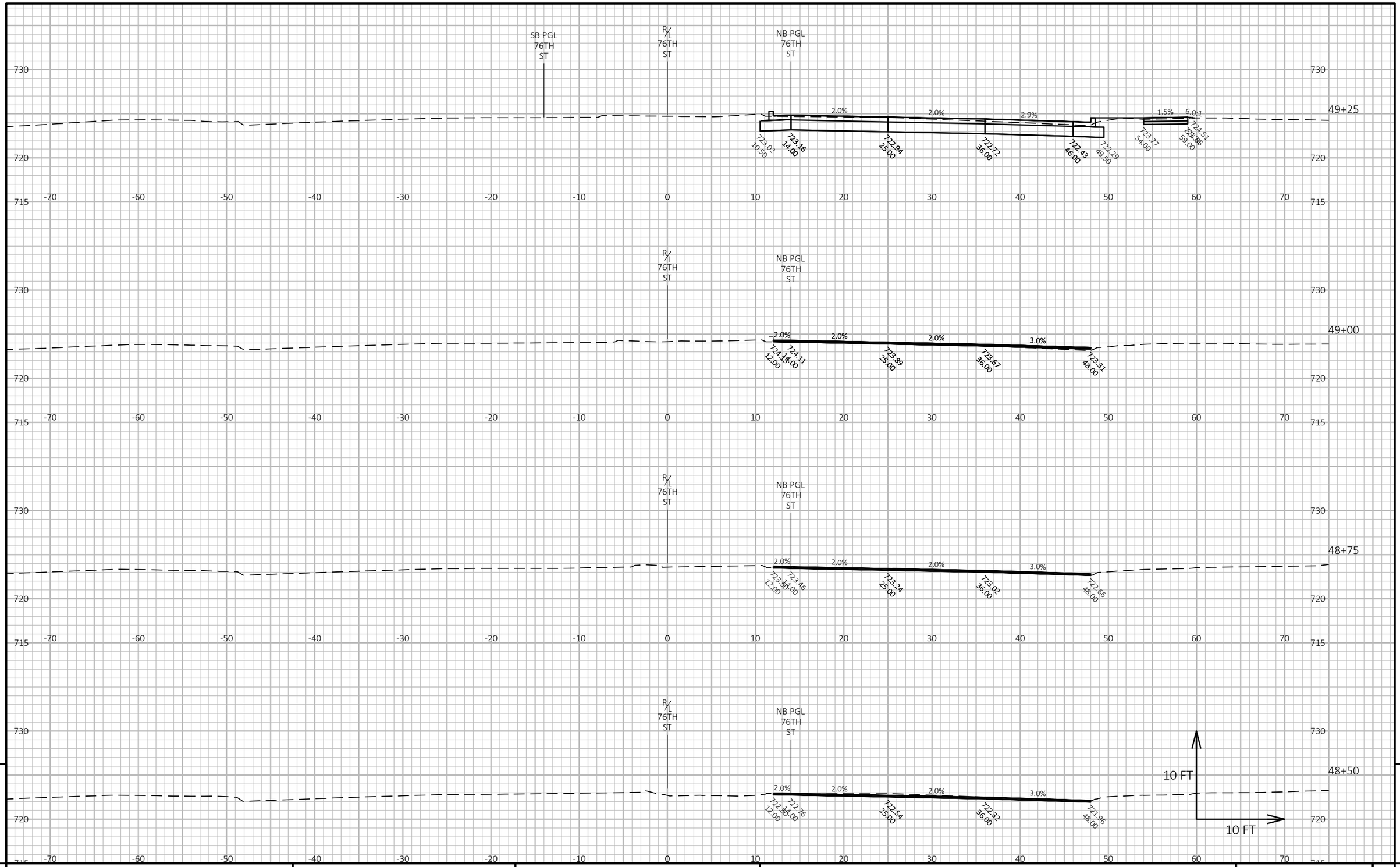

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9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 59	E

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LAYOUT NAME - 01

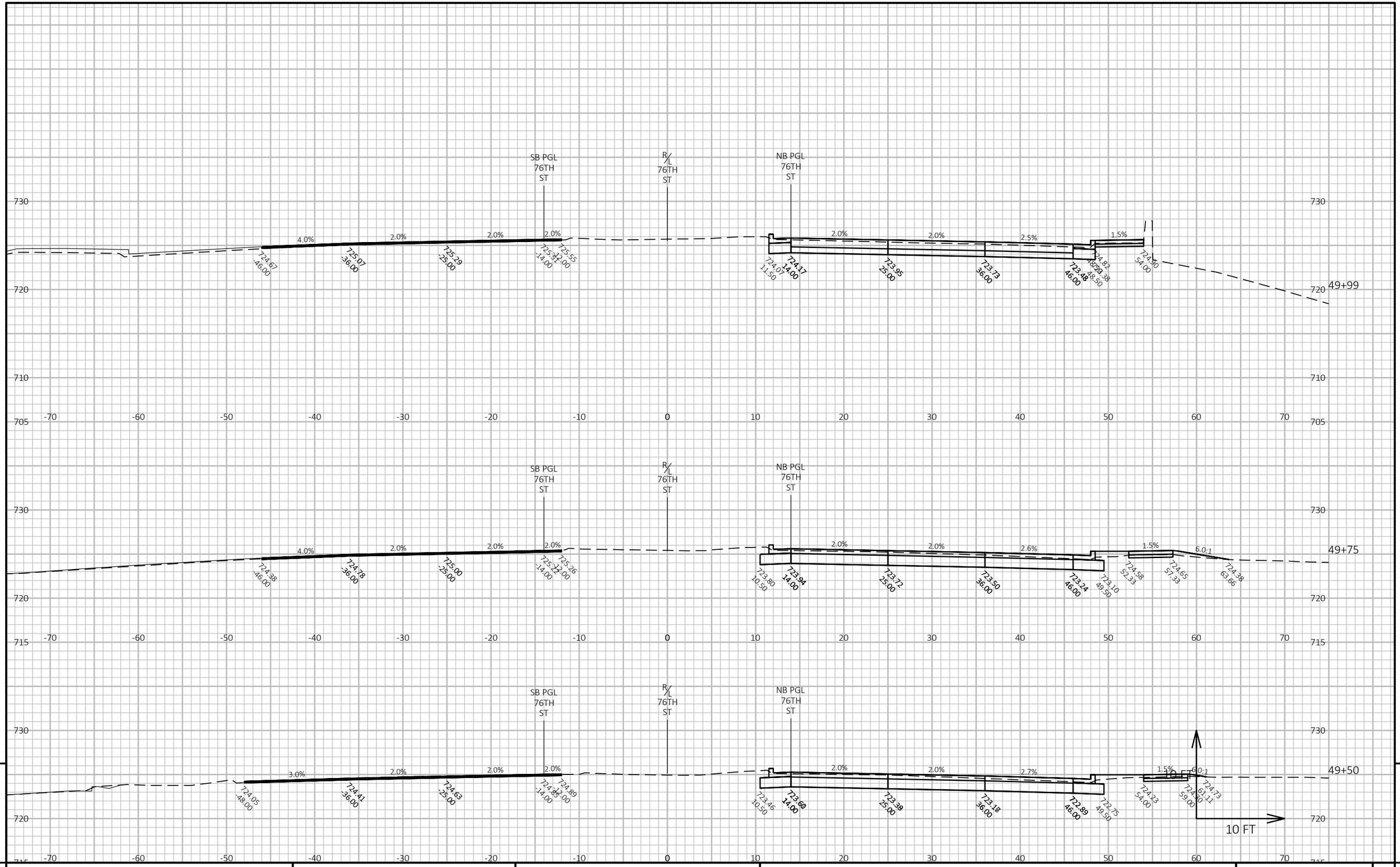
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 60	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
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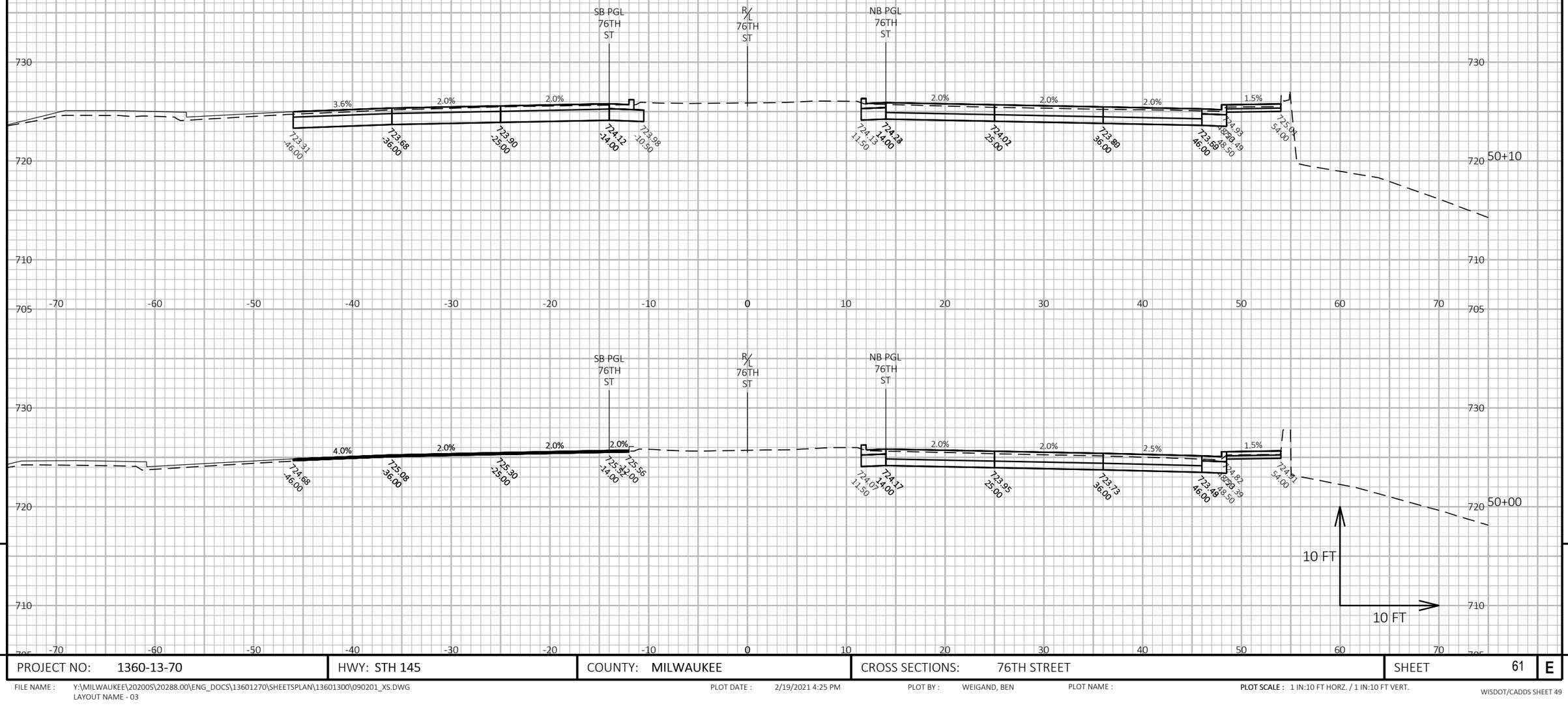
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 61 E

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LAYOUT NAME - 03

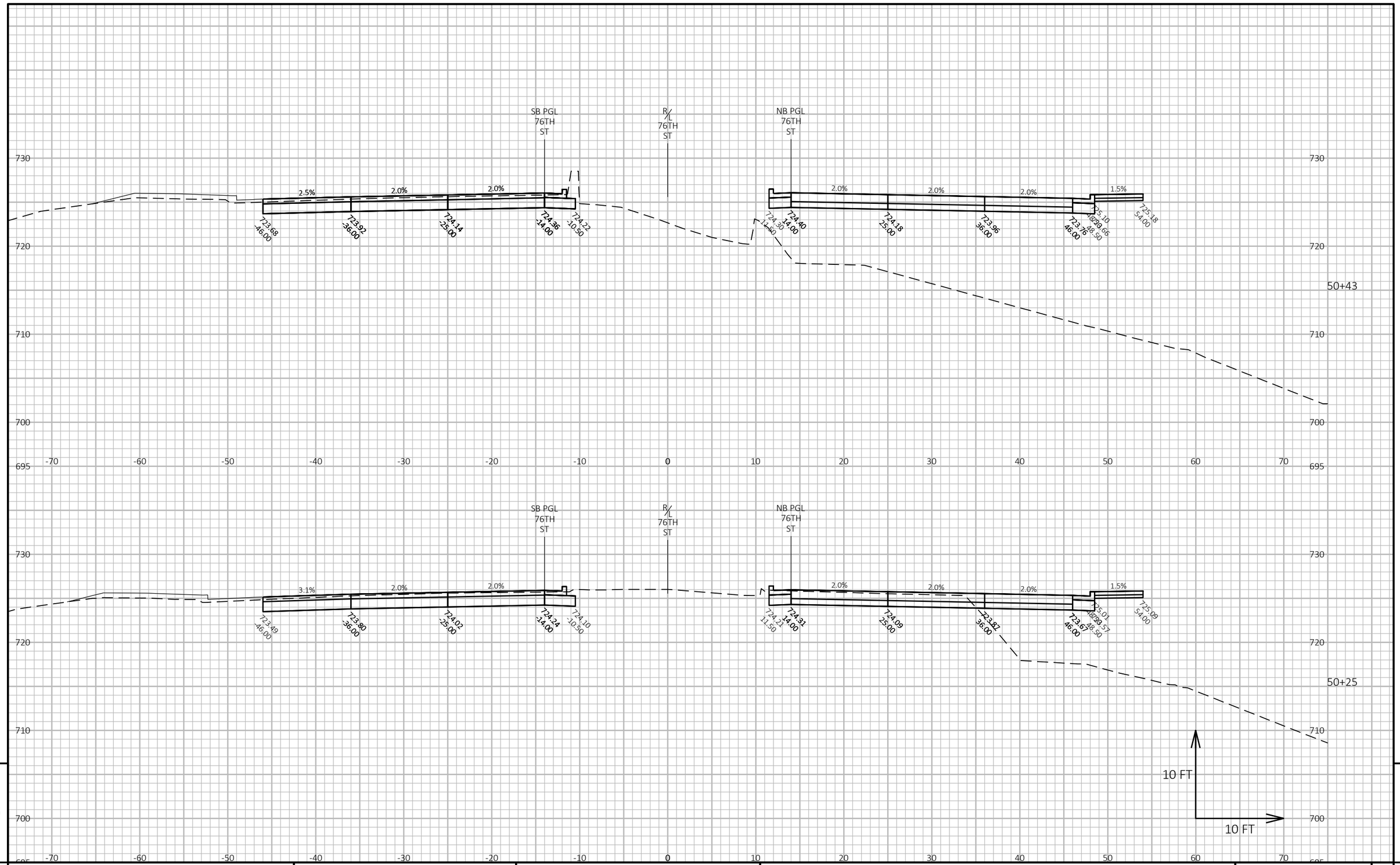
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 62	E

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LAYOUT NAME - 04

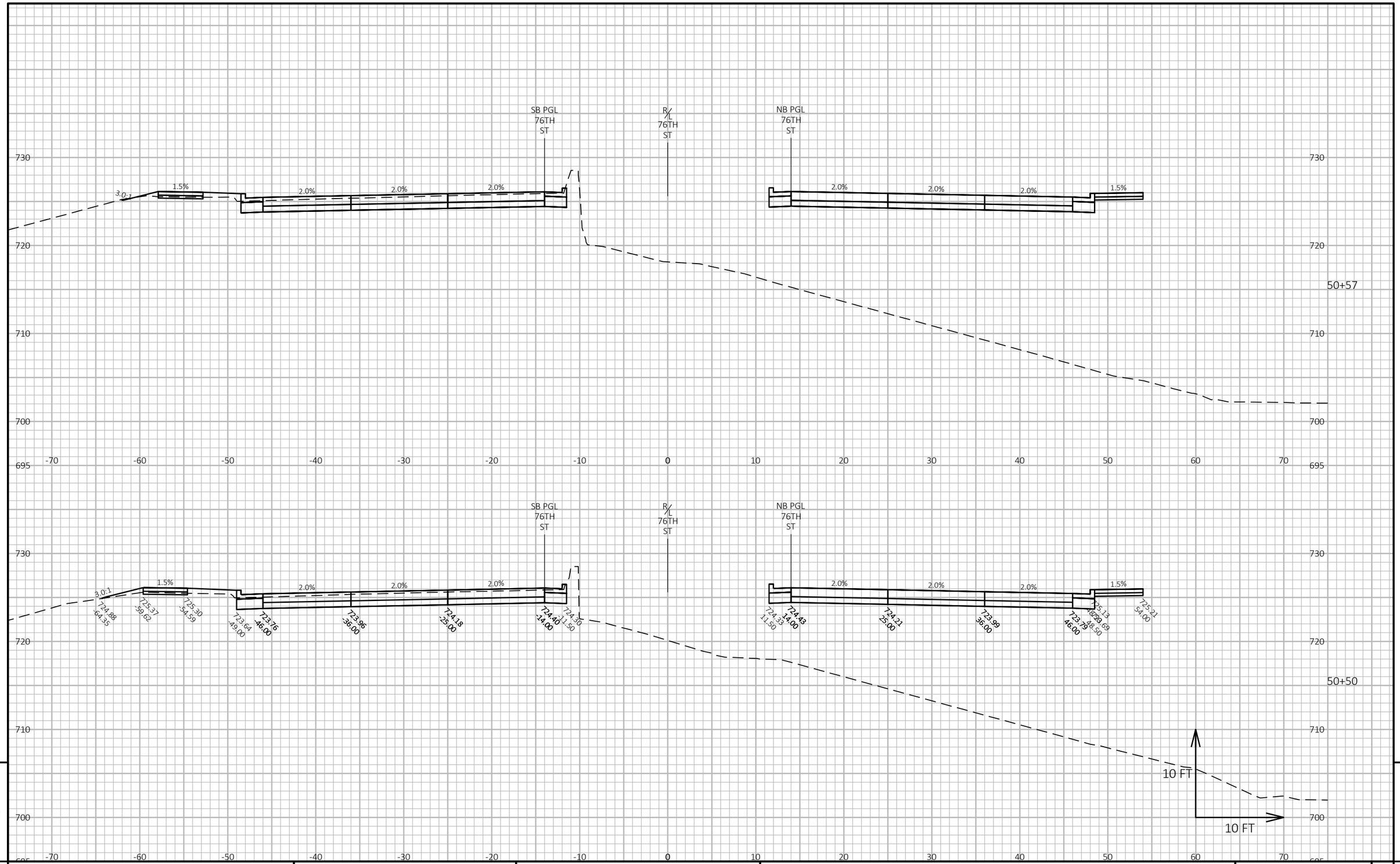
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 63	E

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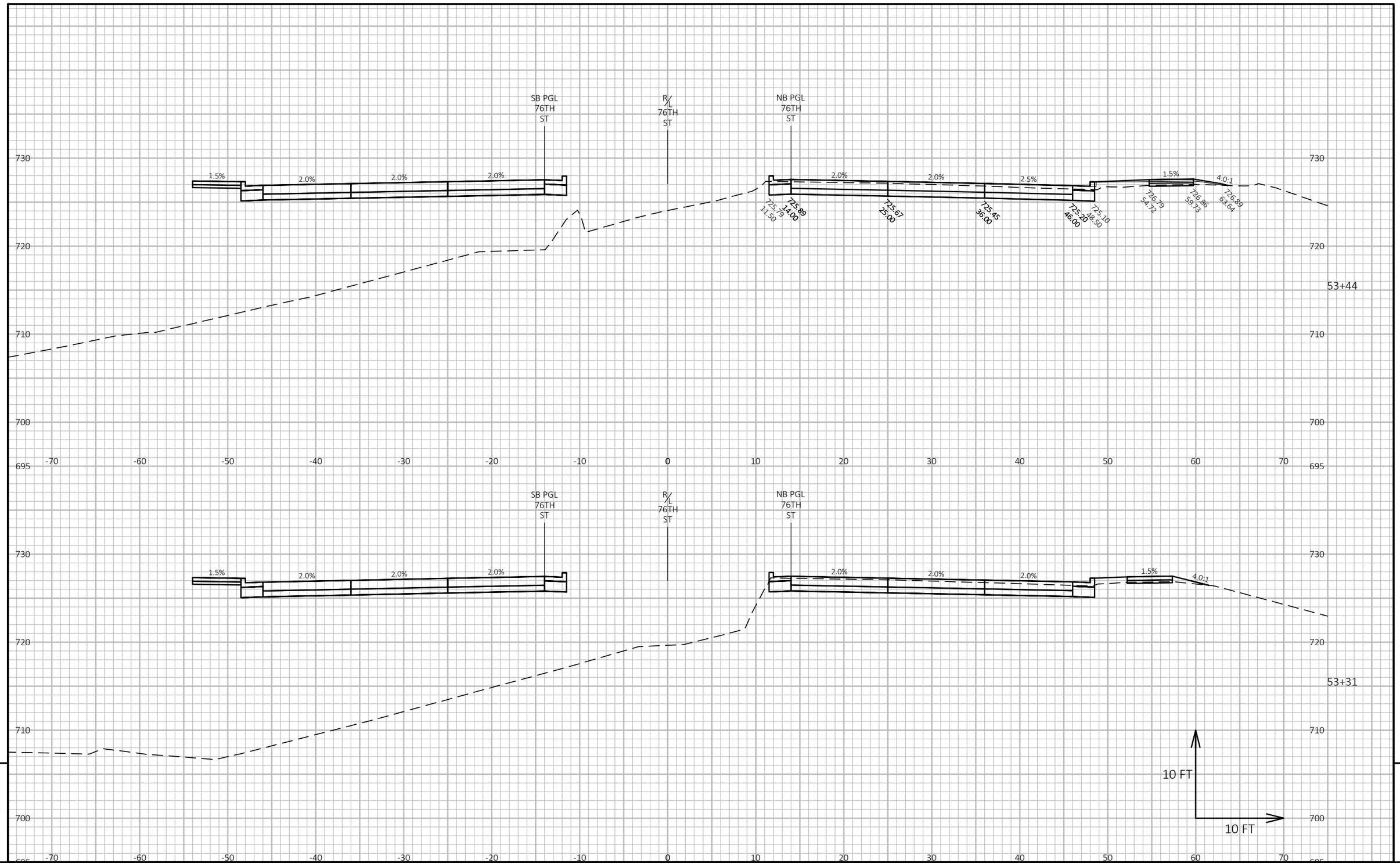
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

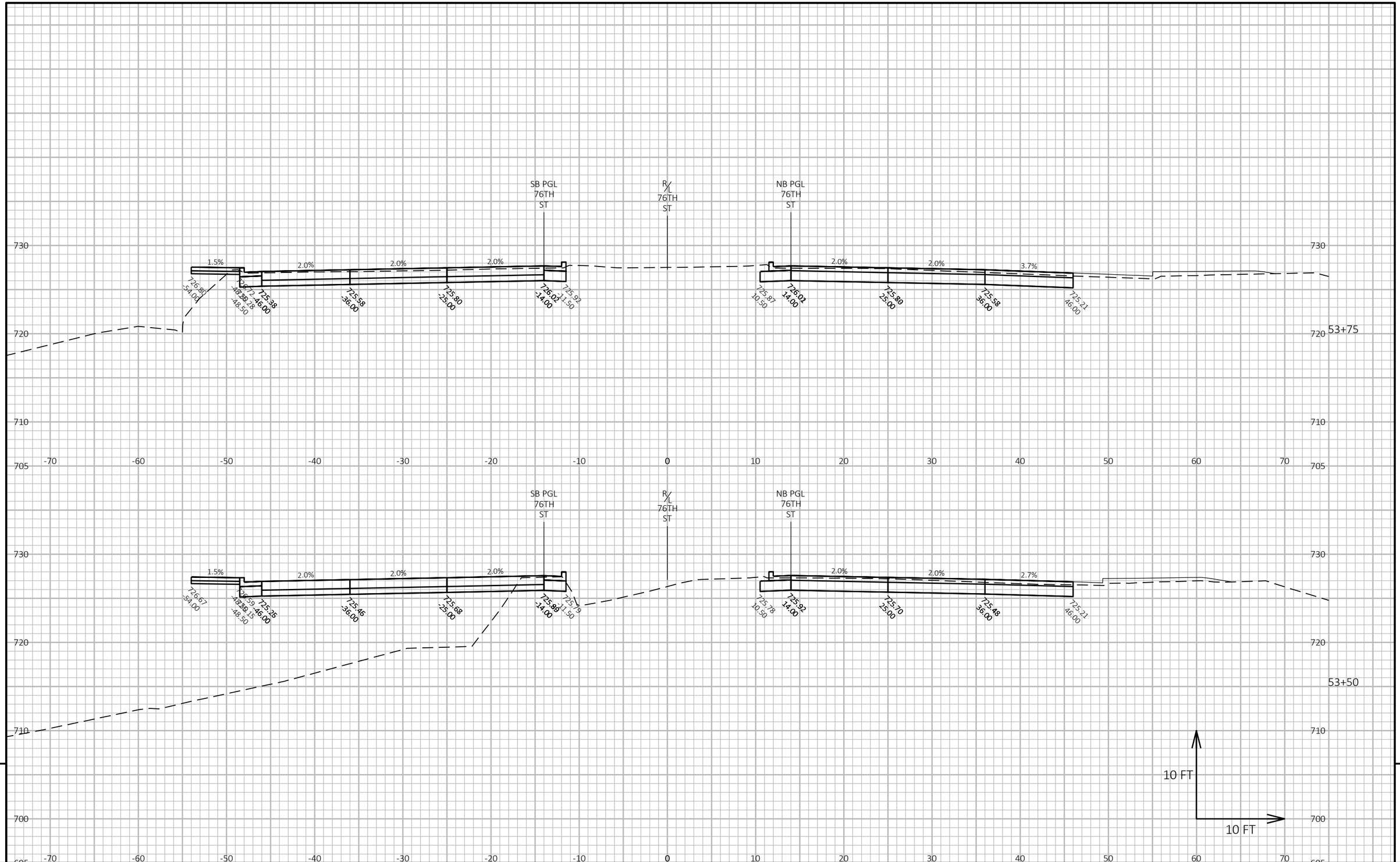


PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 64	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
LAYOUT NAME - 06

PLOT DATE : 2/19/2021 4:25 PM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

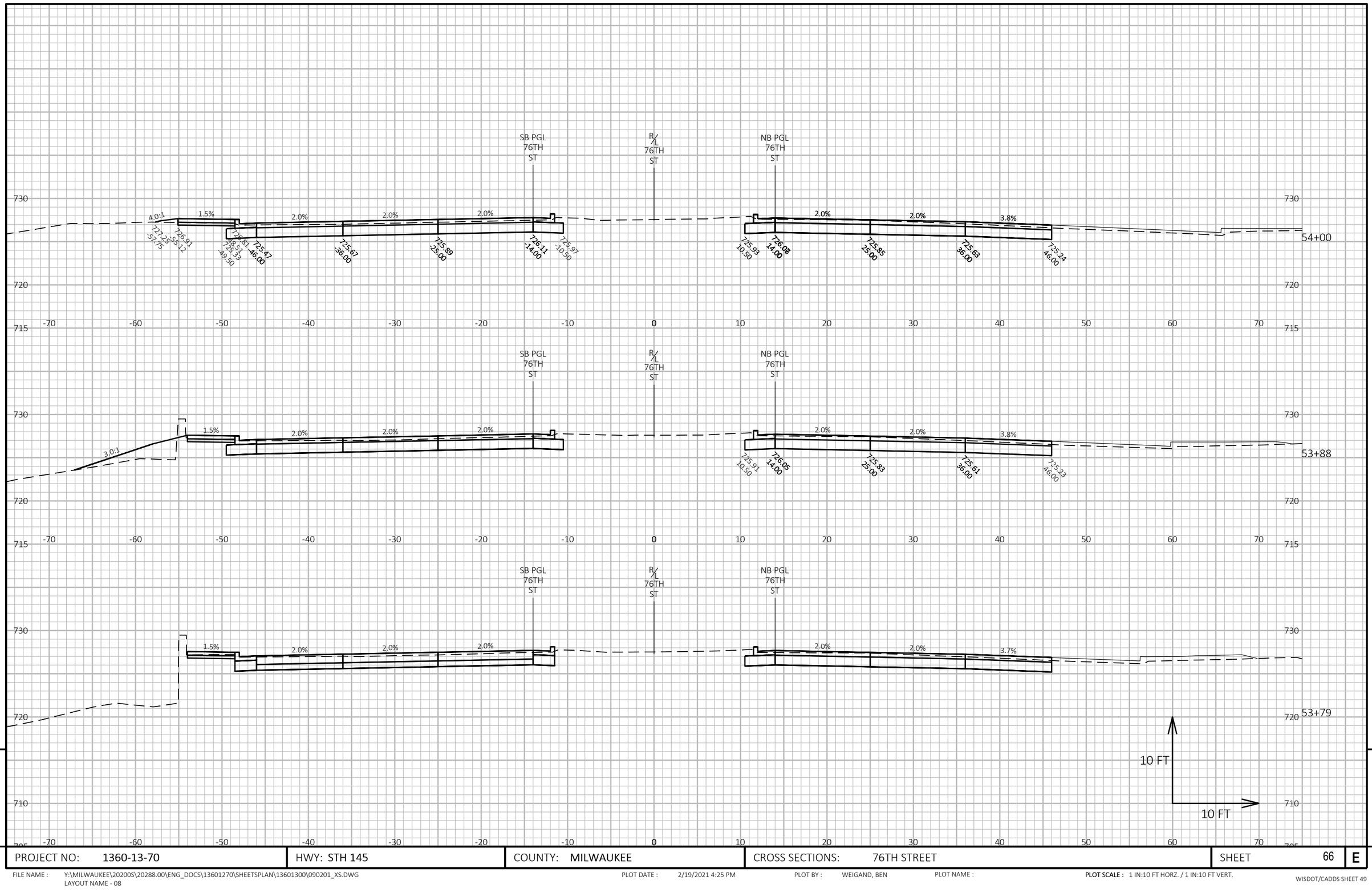


PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 65	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 2/19/2021 4:25 PM PLOT BY : WEIGAND, BEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

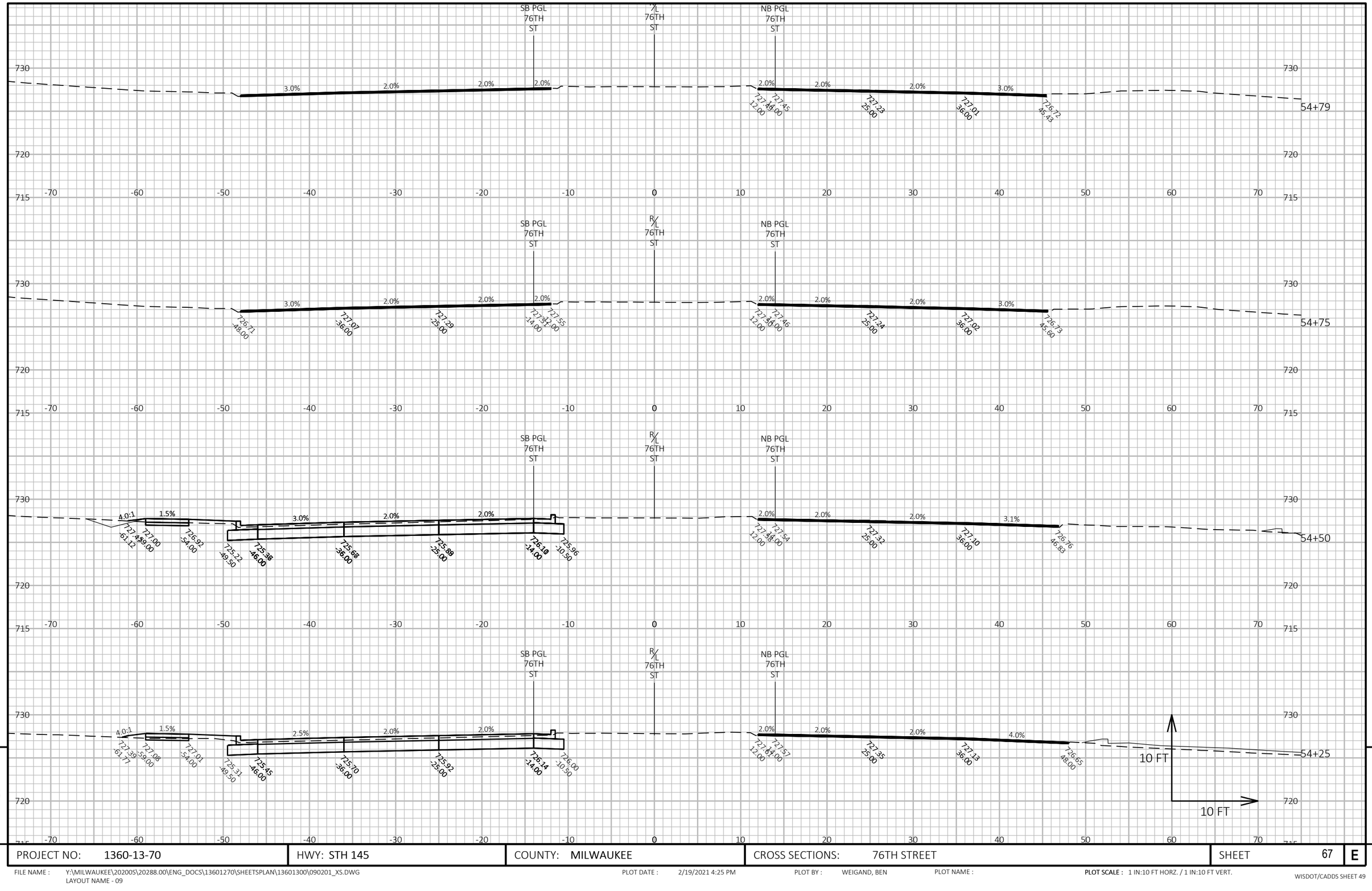
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 66	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 2/19/2021 4:25 PM PLOT BY : WEIGAND, BEN PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 67	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
LAYOUT NAME - 09

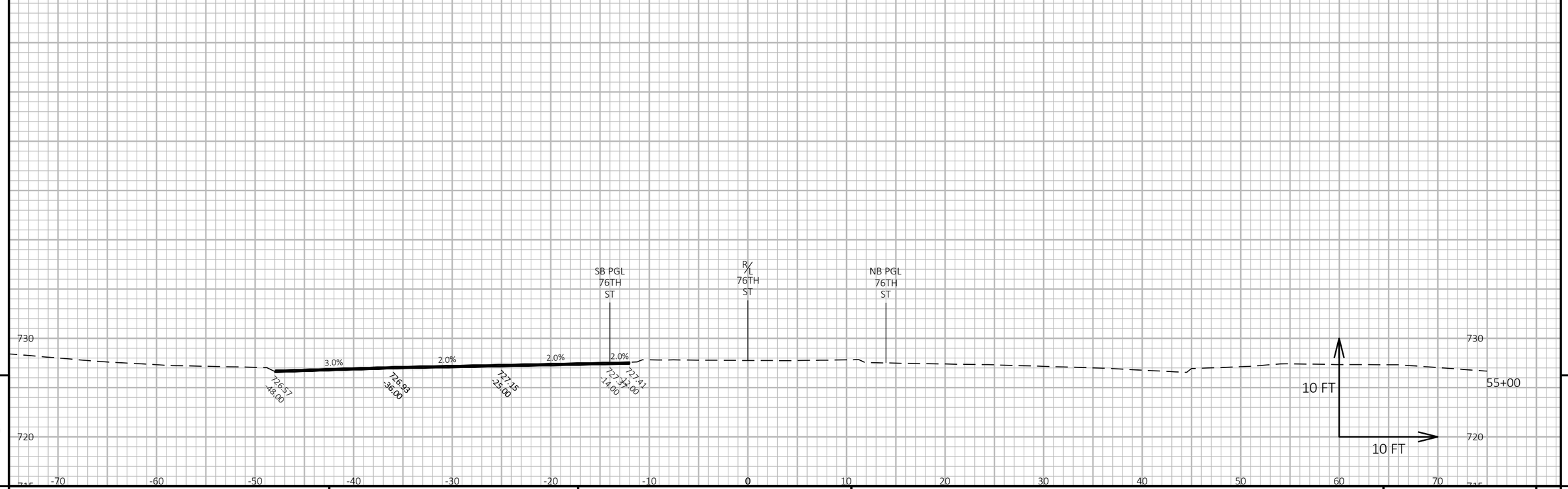
PLOT DATE : 2/19/2021 4:25 PM

PLOT BY : WEIGAND, BEN

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: 76TH STREET	SHEET 68	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS.DWG
LAYOUT NAME - 10

PLOT DATE : 2/19/2021 4:25 PM PLOT BY : WEIGAND, BEN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49