

PROJECT ID: 2025-20-70
WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION			
(124TH ST - USH 45)		(USH 45 - MAYFAIR RD)	
A.A.D.T.	(2023)	= 51400	(2023) = 32900
A.A.D.T.	(2043)	= 50810	(2043) = 35870
D.H.V.		= 5230	= 3800
D.D.		= 59/41	= 59/41
T.		= 5%	= 3.7%
DESIGN SPEED		= 50 MPH	= 50 MPH
ESALS		= 3,500,000	= 980,000

CONVENTIONAL SYMBOLS

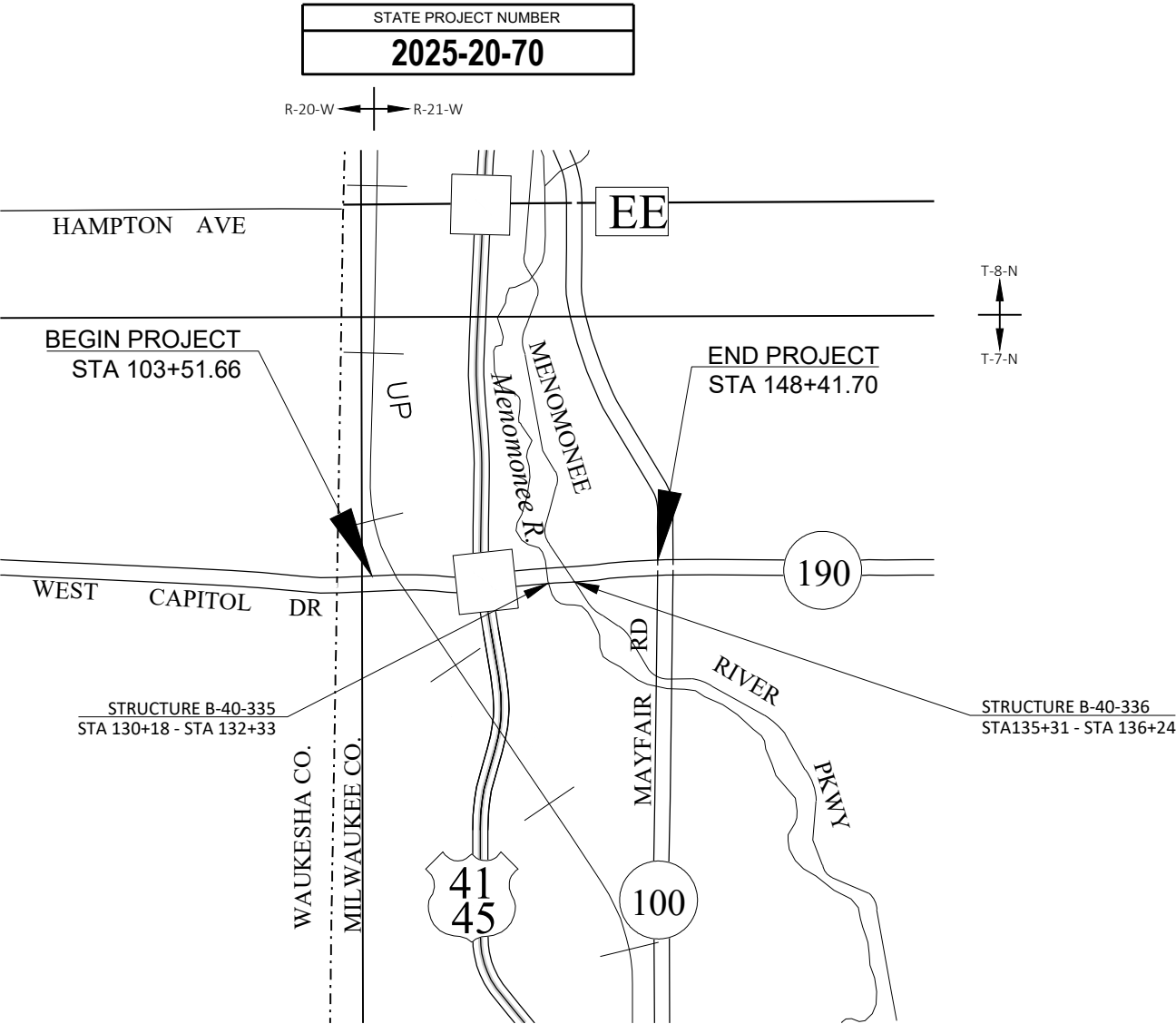
PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CAPITOL DR, CITY OF WAUWATOSA
VARIOUS BRIDGES
STH 190
MILWAUKEE COUNTY



TOTAL NET LENGTH OF CENTERLINE = 0.850

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.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2025-20-70		

Preliminary
10/16/2020 1:13:36 PM

ORIGINAL PLANS PREPARED BY



DATE: _____
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT
Designer	CORRE, INC.
Project Manager	MARK WILFIRT
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REEM SHAHIN

APPROVED FOR THE DEPARTMENT
DATE: _____
(Signature)

E

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE 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.

D.O.T. BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

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

CONTACT THE PROJECT ENGINEER, THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

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

CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANE UNLESS DIRECTED OTHERWISE BY THE ENG PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE, OR PARKING LANE. 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, TURNING, BIKE OR PARKING LANE.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TINE CONCRETE PAVEMENT LONGITUDINALLY UNLESS OTHERWISE IDENTIFIED IN THE PLAN OR DIRECTED BY THE ENGINEER.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/2 INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT

PLACE TOPSOIL 1 INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS IN SOD AREAS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED OR SODDED AS DIRECTED BY THE ENGINEER.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

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

TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH.

UTILITY CONTACTS

COMMUNICATIONS

AT&T LOCAL NETWORK JENNIFER NAVARRO
6070 N FLINT RD
GLENDALE, WI 53209
PHONE: (414) 459-3564
EMAIL: j.navarro@northwindtech.com

COMMUNICATIONS

AT&T WISCONSIN JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7669
EMAIL: jb5175@att.com

ELECTRICITY-TRANSMISSION

ATC MANAGEMENT, INC. TONY MARCINIAK
W234 N2000 RIDGEWIEW PARKWAY
COURT PO BOX 47
WAUKESHA, WI 53187-0047
PHONE: (262)506-6814
EMAIL: amarciniak@atcllc.com

COMMUNICATIONS

CHARTER COMMUNICATIONS BEAU ABUYA
1320 N DR MARTIN LUTHER KING DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
EMAIL: wis.engineering@charter.com

COMMUNICATIONS

CENTURY LINK KENDALL WILLIAMS-ZETINA
100 S. CINNCINNATI AVE, SUITE 1200
TULSA, OK 74103
PHONE: (918) 547-0547
EMAIL: kendall.zetina@centurylink.com

SEWER

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT MICKI KLAPPA-SULLIVAN
260 W SEEBOTH ST
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
EMAIL: MklappaSullivan@mmsd.com

COMMUNICATIONS

SPRINT COMMUNICATIONS CO LP JASON JARVIS
7459 W 79TH ST
BRIDGEVIEW, IL 60455
PHONE: (219) 433-4091
EMAIL: jason.m.jarvis@sprint.com

COMMUNICATIONS

WISCONSIN INDEPENDENT NETWORK, LLC DICK HAMMETTER
800 WISCONSIN AVE SUITE 219
EAU CLAIRE, WI 54703
PHONE: (715) 838-4406
EMAIL: Hammetter@WINS.net

WATER

WAUWATOSA WATER UTILITY ADAM FLORIN
7725 W NORTH AVENUE
WAUWATOSA, WI 53213
PHONE: (414) 479-8963
EMAIL: Aflorin@wauwatosa.net

ELECTRICITY

WE ENERGIES - ELECTRICITY NICOLE SMULLEN
333 W EVERETT ST A229
MILWAUKEE, WI 5320
PHONE: (414) 221-5617
EMAIL: We-Utility-Relocations@we0energies.com

COMMUNICATIONS

WISCONSIN DEPARTMENT OF TRANSPORTATION JEFF MADSON
433 W. ST. PAUL AVE.
MILWAUKEE, WI 53203-3007
PHONE: (414) 225-3723
EMAIL: Jeffrey.Madson@dot.wi.gov

STREET LIGHTING

WISCONSIN DEPARTMENT OF TRANSPORTATION ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
EMAIL: Eric.Perea@dot.wi.gov

SIGNALS

WISCONSIN DEPARTMENT OF TRANSPORTATION DARRIN WOLFORD
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262)521-4409
EMAIL: derrin.wolford@dot.wi.gov



Dial  or (800)242-8511

www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS

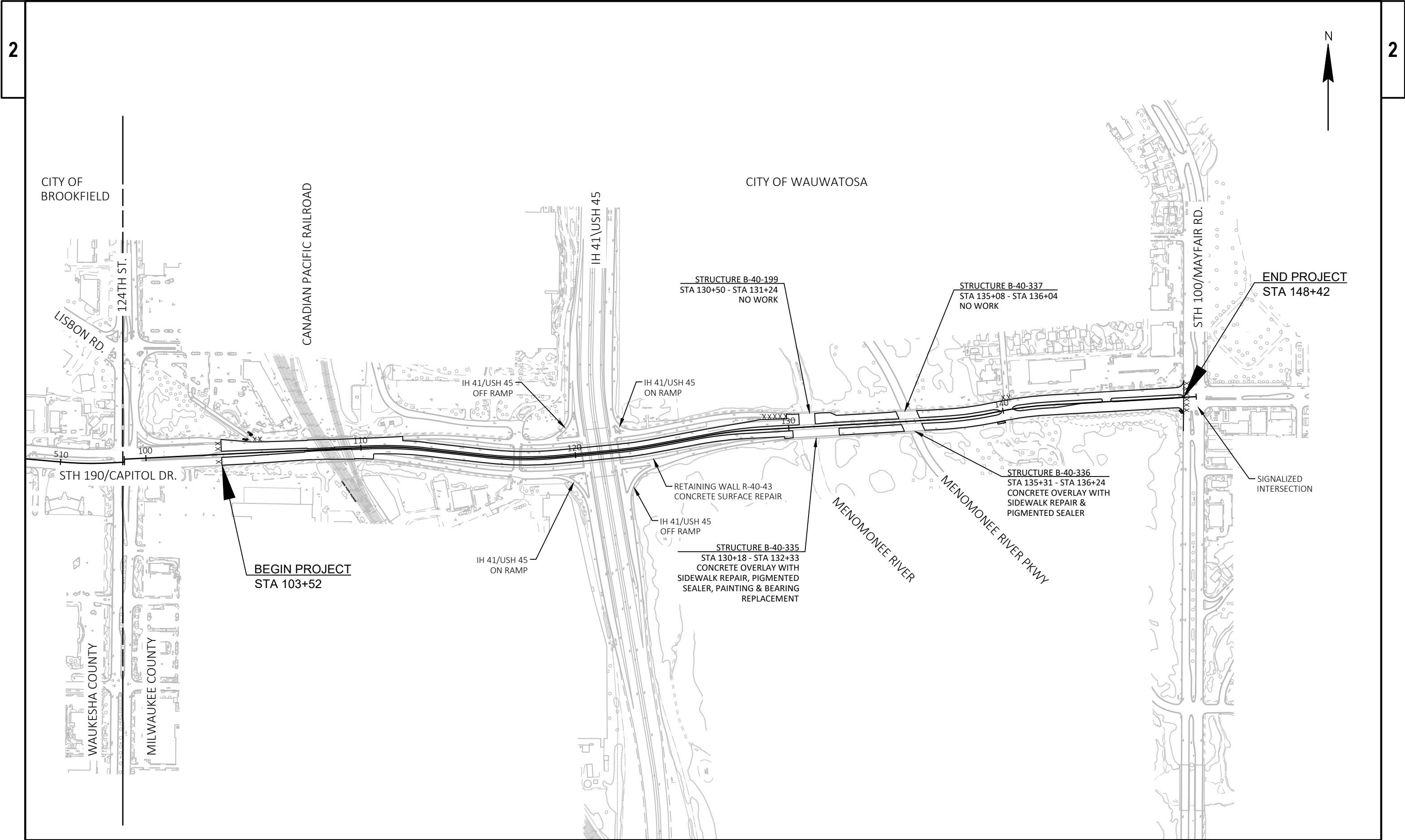
GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CURB RAMP DETAILS
TRAFFIC CONTROL

WISDOT CONTACT

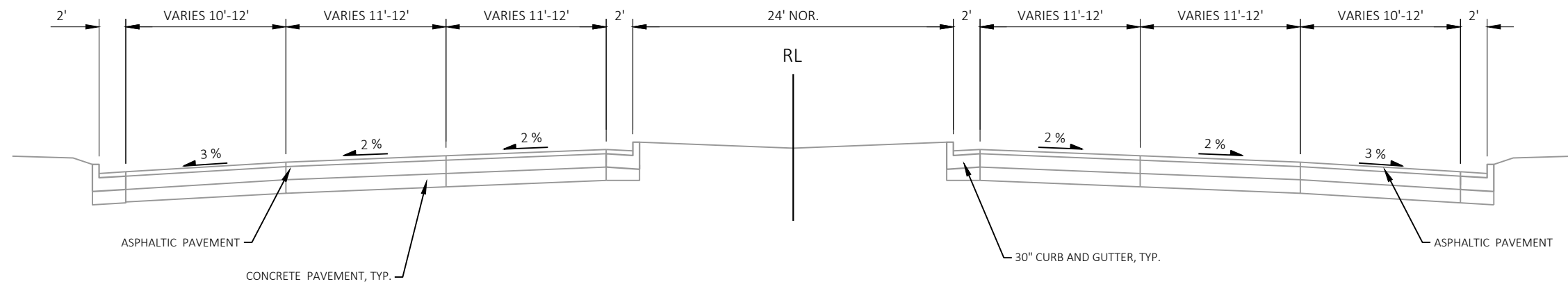
MARK WILFERT
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: 262-548-5936
EMAIL: mark.wilfert@dot.wi.gov

DNR LIASION

KRISTINA BETZOLD
2300 N. DR. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 507-4946
EMAIL: kristina.betzold@wisconsin.gov

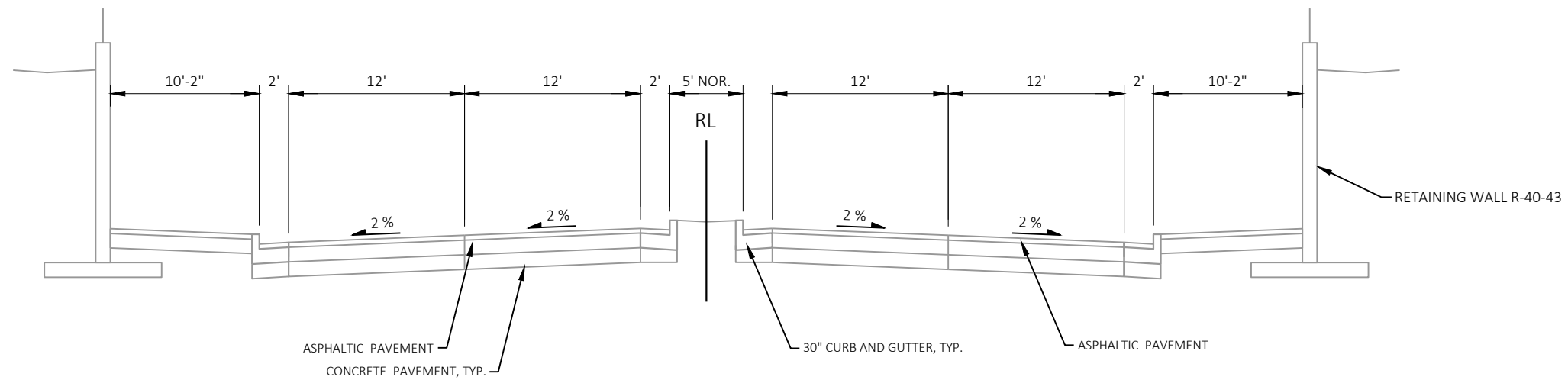


PROJECT NO: 2025-20-70	HWY: STH 190	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET	E
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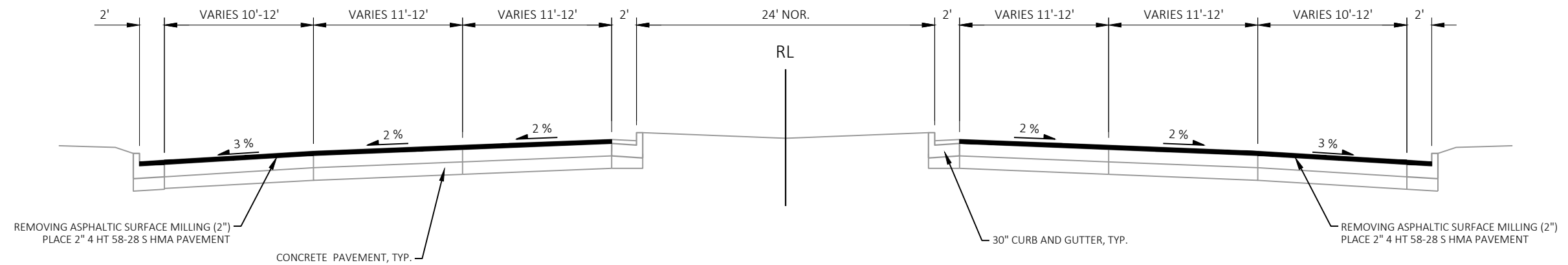
EXISTING TYPICAL SECTION

STA 103+52 - 112+00
STA 129+00 - 148+42

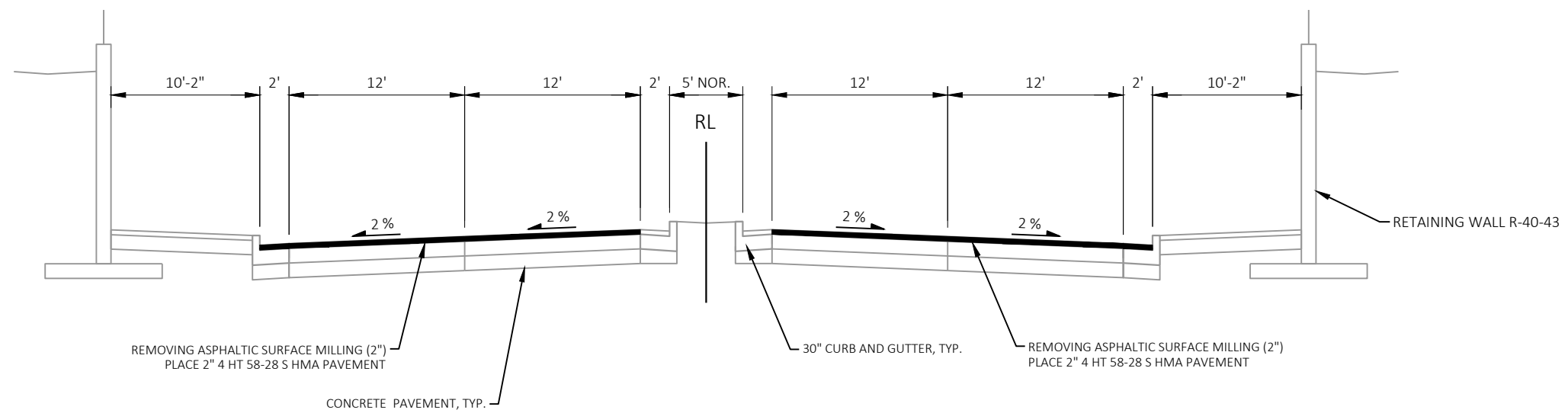


EXISTING TYPICAL SECTION

STA 112+00 - 129+00

**FINISHED TYPICAL SECTION**

STA 103+52 - 112+00
STA 129+00 - 147+75

**FINISHED TYPICAL SECTION**

STA 112+00 - 129+00

PROJECT NO: 2025-20-70

HWY: STH 190

COUNTY: MILWAUKEE

TYPICAL SECTION

SHEET

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REMOVING PAVEMENT

STEP 1

PRIOR TO REMOVING ASPHALT SURFACE:

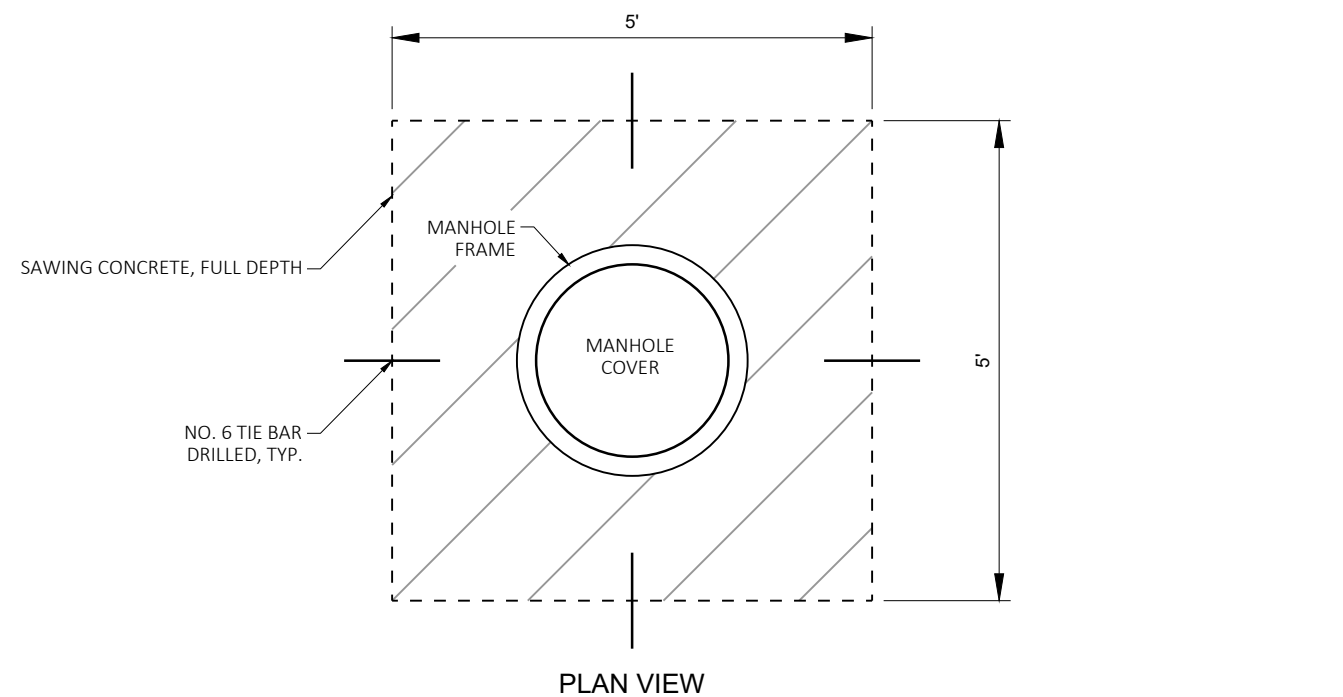
- SAW PAVEMENT FULL DEPTH
- REMOVE AND RESTORE MANHOLE COVER
- FURNISH AND INSTALL TEMPORARY COVER PLATE
- BACKFILL USING ASPHALT SURFACE, TEMPORARY

STEP 2

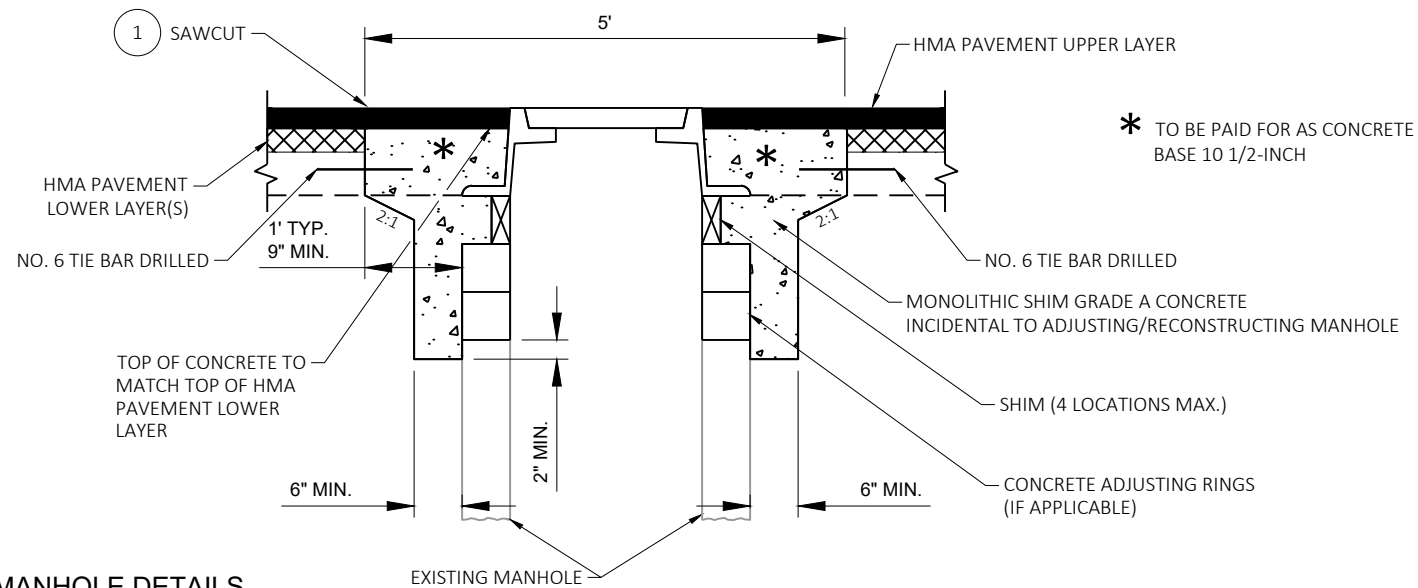
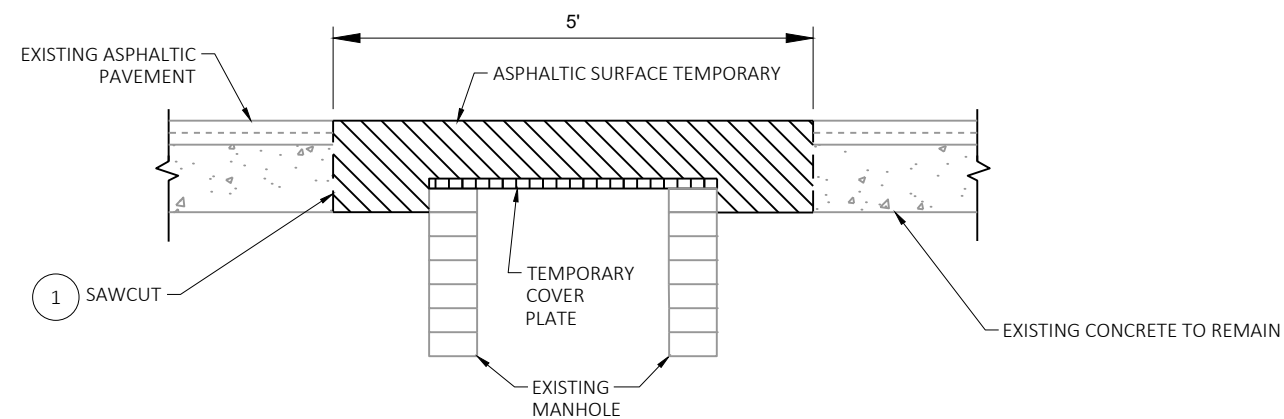
AFTER PAVING LOWER LAYER:

- EXCAVATE AND REMOVE TEMPORARY COVER PLATE
- ADJUST AND REINSTALL MANHOLE FRAME AND COVER USING MONOLITHIC CONCRETE SHIM

ALL WORK EXCEPT SAWING CONCRETE AND INSTALLATION AND REMOVAL OF TEMPORARY COVER PLATE IS INCLUDED IN THE COST OF ADJUSTING MANHOLE COVERS.



PLAN VIEW



ADJUSTING/RECONSTRUCTING MANHOLE DETAILS

PROJECT NO: 2025-20-70

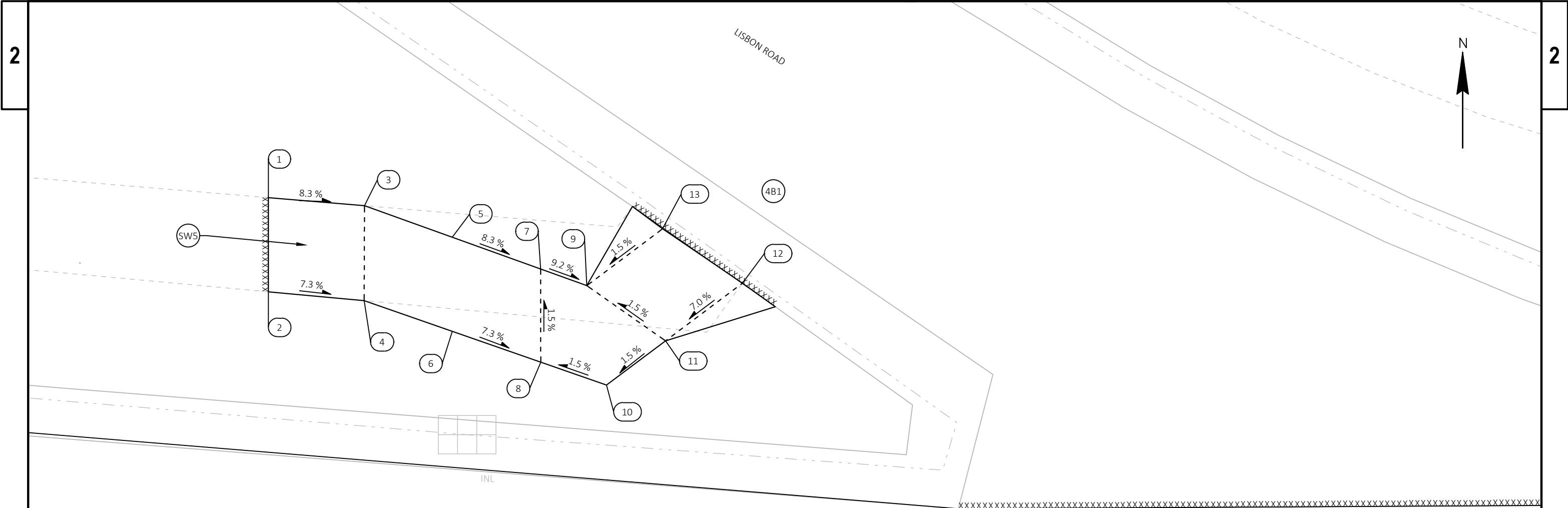
HWY: STH 190

COUNTY: MILWAUKEE

CONSTRUCTION DETAILS

SHEET

E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV
1	104+53.72	-68.98 LT	189468.051	727944.365	736.41
2	104+53.49	-64.09 LT	189463.152	727944.365	736.35
3	104+58.69	-68.33 LT	189467.633	727949.361	735.99
4	104+58.45	-63.39 LT	189462.693	727949.345	735.99
5	104+63.18	-66.47 LT	189465.989	727953.931	735.61
6	104+62.95	-61.58 LT	189461.091	727953.931	735.64
7	104+67.69	-64.60 LT	189464.337	727958.525	735.21
8	104+67.47	-59.77 LT	189459.493	727958.533	735.28
9	104+70.05	-63.63 LT	189463.473	727960.930	735.01
10	104+70.84	-58.41 LT	189458.301	727961.956	735.34
11	104+74.01	-60.57 LT	189460.603	727965.024	735.28
12	104+78.15	-63.38 LT	189463.603	727969.024	734.98
13	104+74.13	-66.40 LT	189466.431	727964.873	735.13

STH190/CAPITOL DR

NOTES:
CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.

DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.

SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

ALL STATION AND OFFSET INFORMATION REFERENCE STH 190/CAPITOL DR.

LEGEND

X

CURB RAMP TYPE

SW5

CONCRETE SIDEWALK 5-INCH

XX

POINT NUMBER

NOTES:
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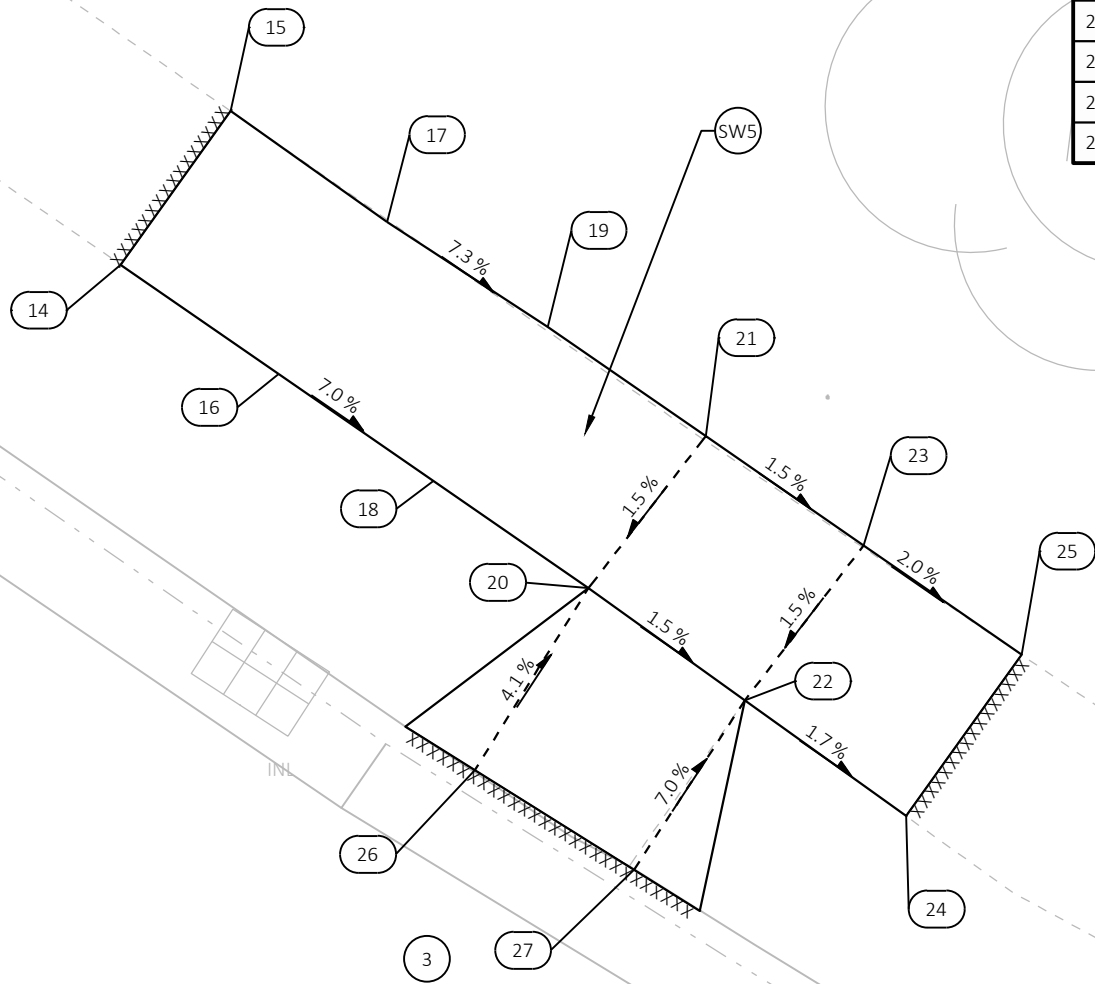
SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

ALL STATION AND OFFSET INFORMATION REFERENCE STH 190/CAPITOL DR.

LEGEND

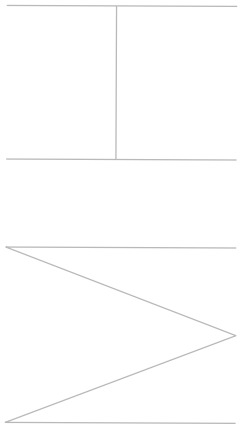
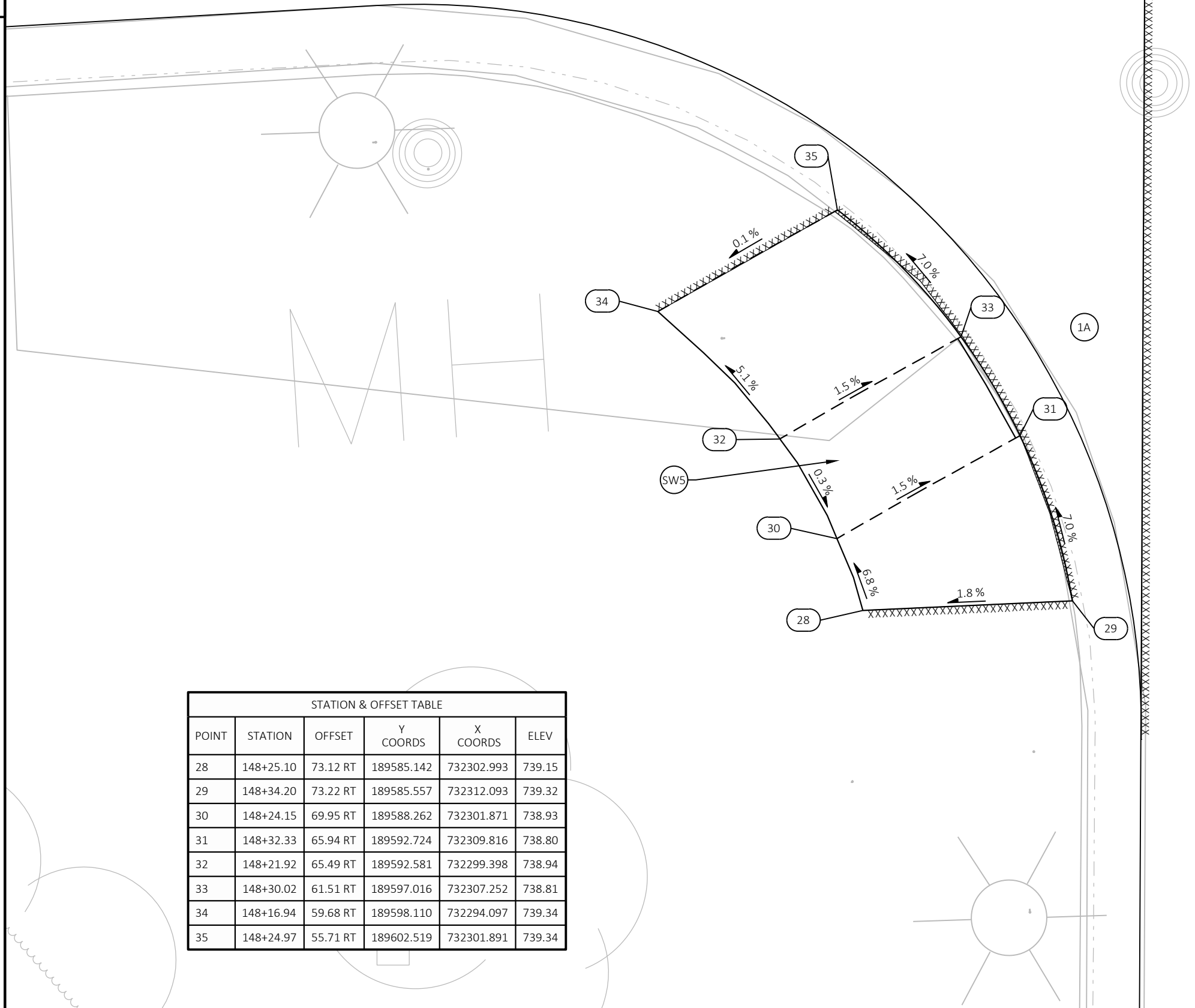
- (X) CURB RAMP TYPE
- (SW5) CONCRETE SIDEWALK 5-INCH
- (XX) POINT NUMBER

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV
14	104+77.95	-96.40 LT	189496.579	727967.274	735.59
15	104+81.00	-100.27 LT	189500.587	727970.141	735.72
16	104+81.93	-93.37 LT	189493.744	727971.391	735.24
17	104+84.93	-97.19 LT	189497.698	727974.216	735.85
18	104+85.83	-90.40 LT	189490.954	727975.426	734.89
19	104+88.99	-94.26 LT	189494.964	727978.402	735.98
20	104+89.73	-87.42 LT	189488.164	727979.461	734.54
21	104+92.96	-91.23 LT	189492.121	727982.515	735.62
22	104+93.66	-84.31 LT	189485.238	727983.533	734.47
23	104+96.94	-88.20 LT	189489.278	727986.628	735.54
24	104+97.71	-81.10 LT	189482.230	727987.732	734.38
25	105+00.91	-85.16 LT	189486.435	727990.741	735.44
26	104+86.55	-82.83 LT	189483.425	727976.504	734.33
27	104+90.57	-80.04 LT	189480.832	727980.649	734.12



LISBON ROAD

STH190/CAPITOL DR



STH100/MAYFAIR RD

LEGEND

- (X) CURB RAMP TYPE
- (SW5) CONCRETE SIDEWALK 5-INCH
- (XX) POINT NUMBER

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV
28	148+25.10	73.12 RT	189585.142	732302.993	739.15
29	148+34.20	73.22 RT	189585.557	732312.093	739.32
30	148+24.15	69.95 RT	189588.262	732301.871	738.93
31	148+32.33	65.94 RT	189592.724	732309.816	738.80
32	148+21.92	65.49 RT	189592.581	732299.398	738.94
33	148+30.02	61.51 RT	189597.016	732307.252	738.81
34	148+16.94	59.68 RT	189598.110	732294.097	739.34
35	148+24.97	55.71 RT	189602.519	732301.891	739.34

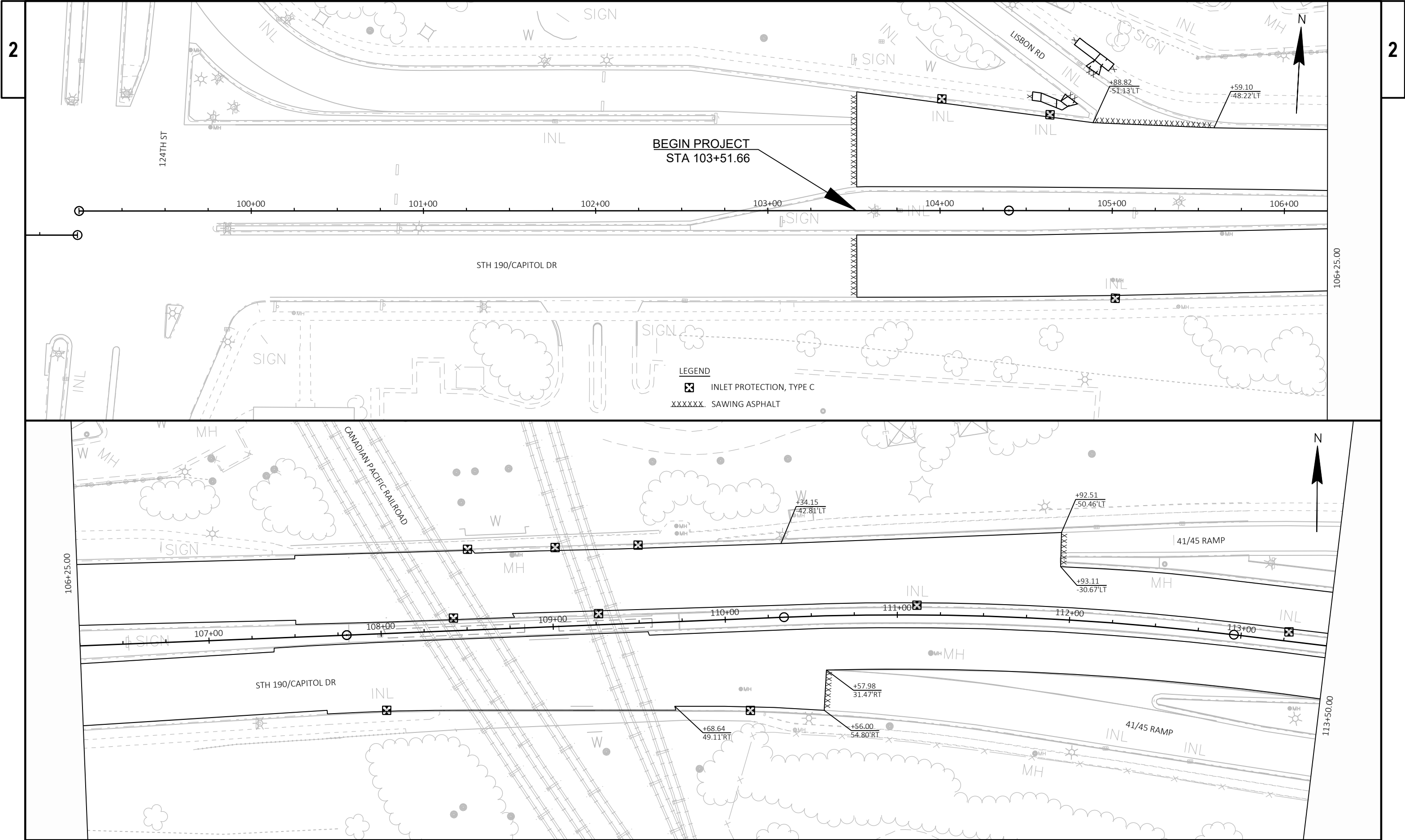
NOTES:
CONTRACTOR SHALL FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.

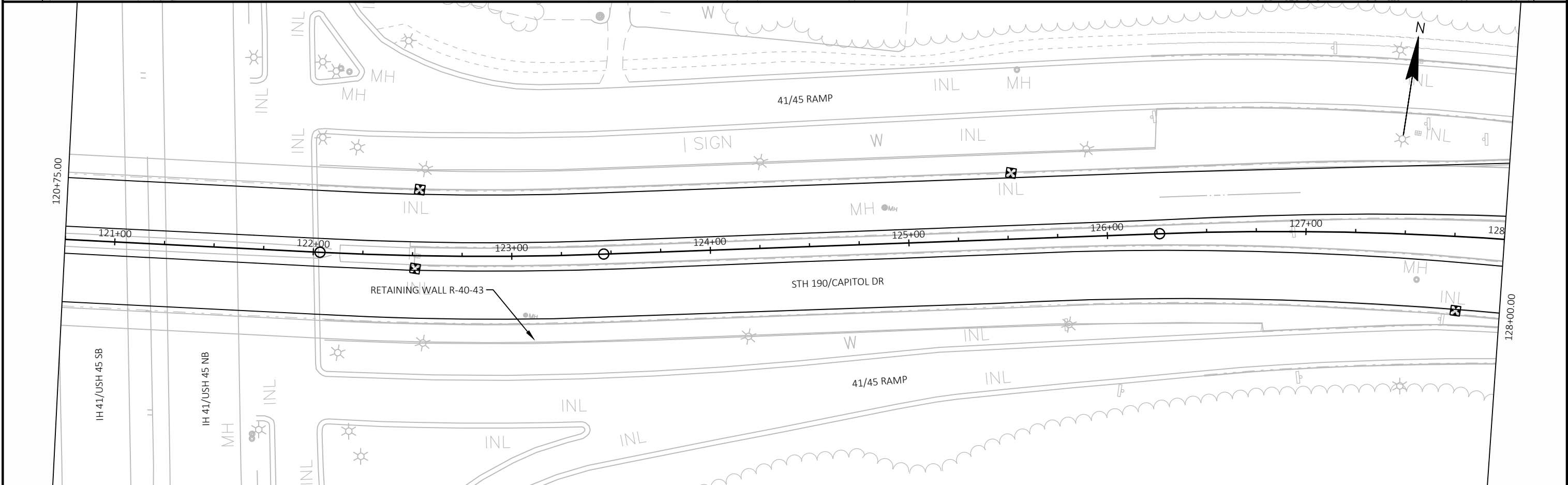
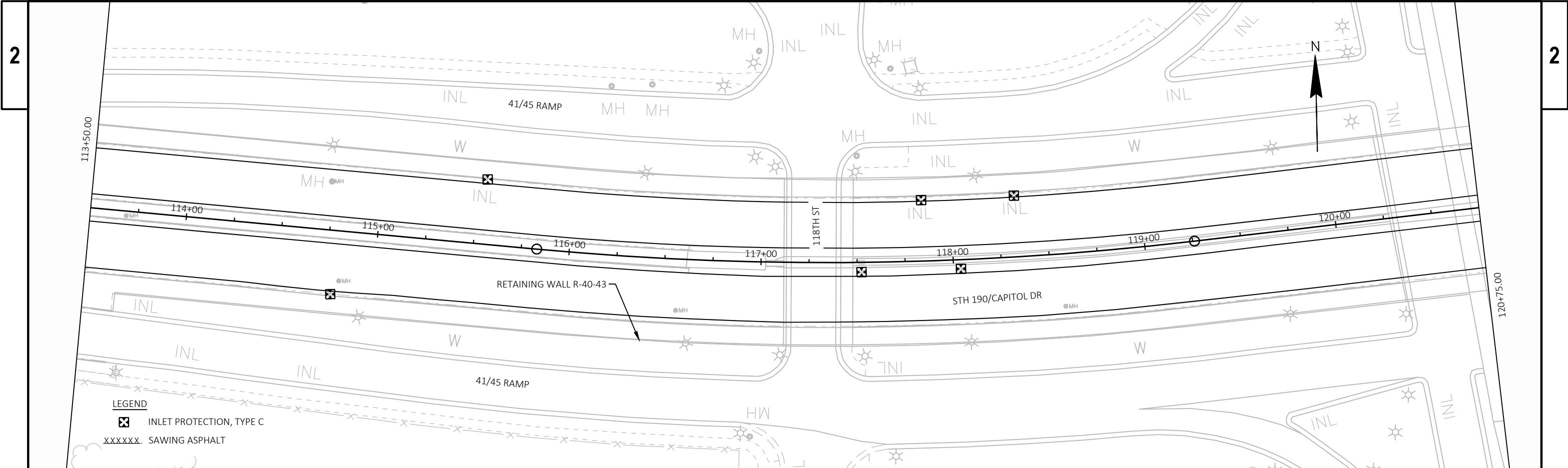
DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.

SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

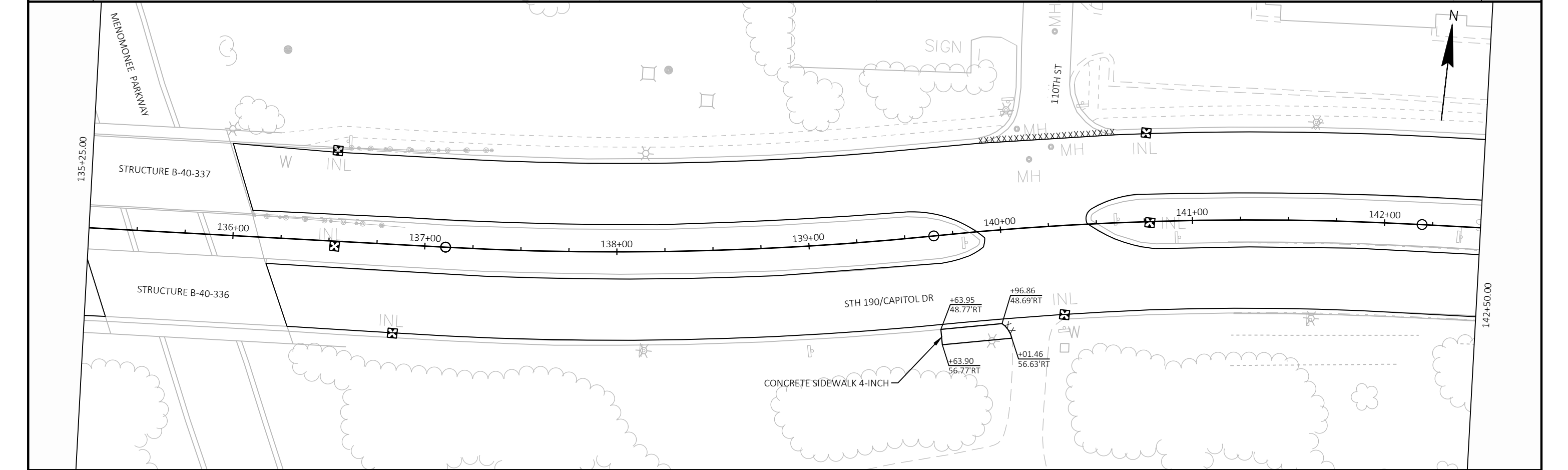
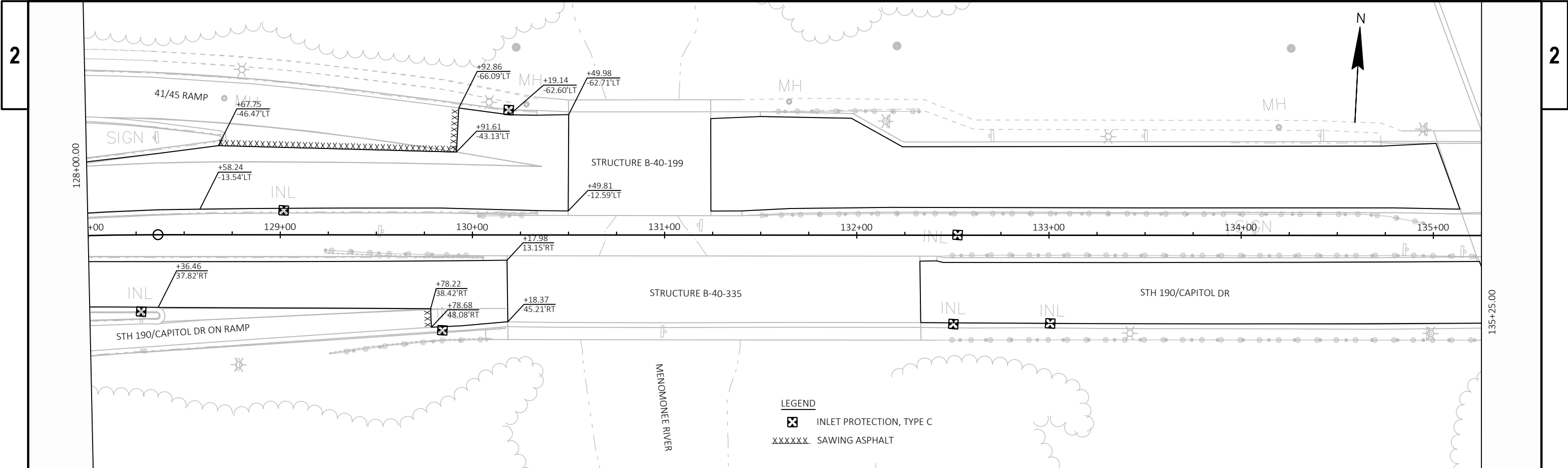
ALL STATION AND OFFSET INFORMATION REFERENCE STH 190/CAPITOL DR.



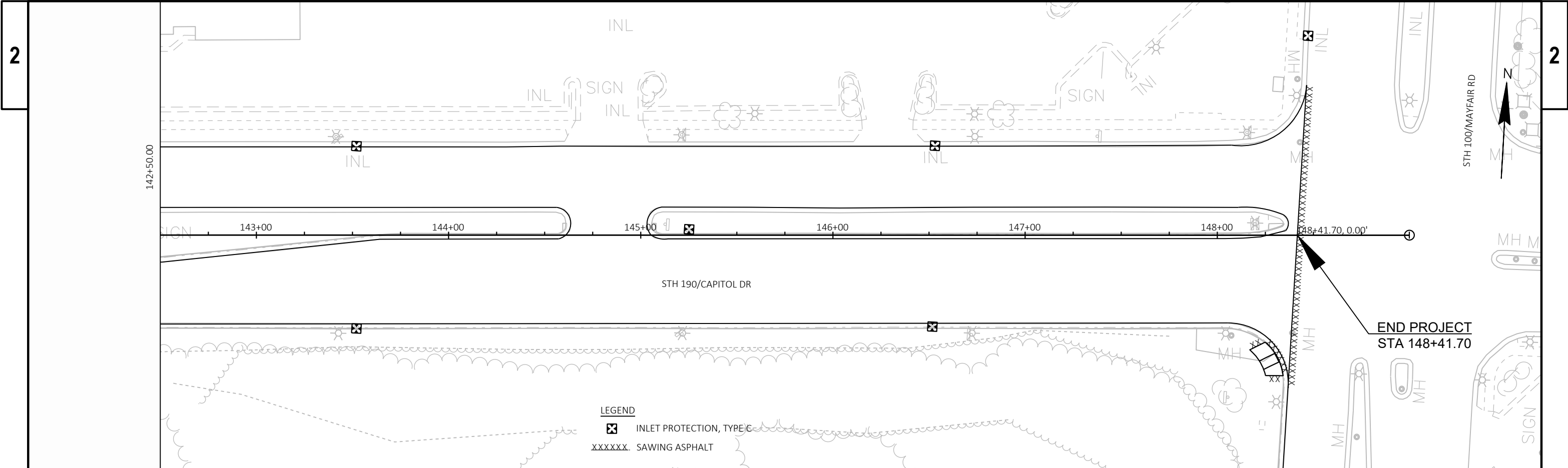
PROJECT NO:	2025-20-70	HWY: STH 190	COUNTY: MILWAUKEE	PLAN DETAILS & EROSION CONTROL	SHEET	E
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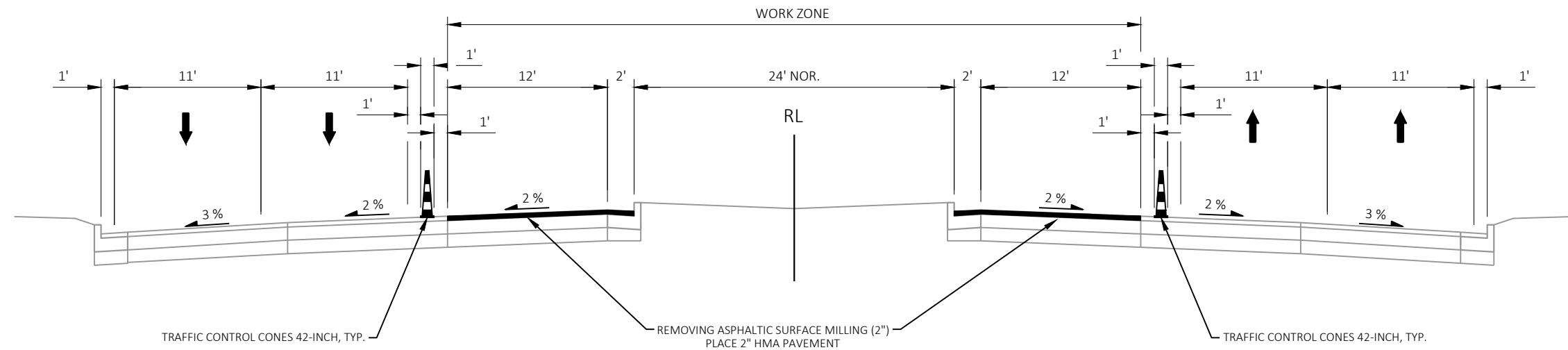


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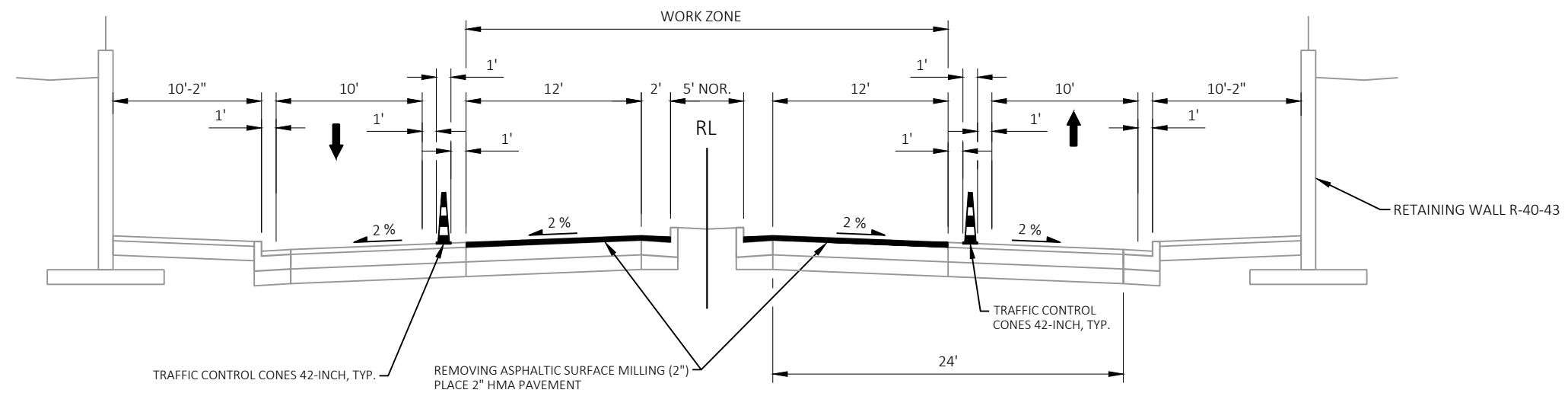


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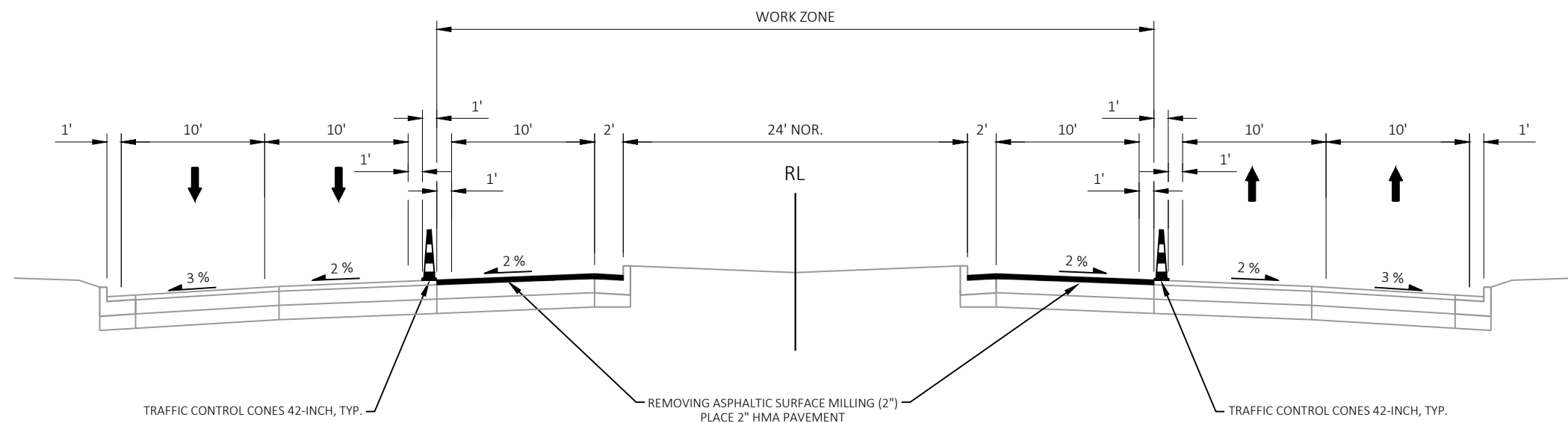




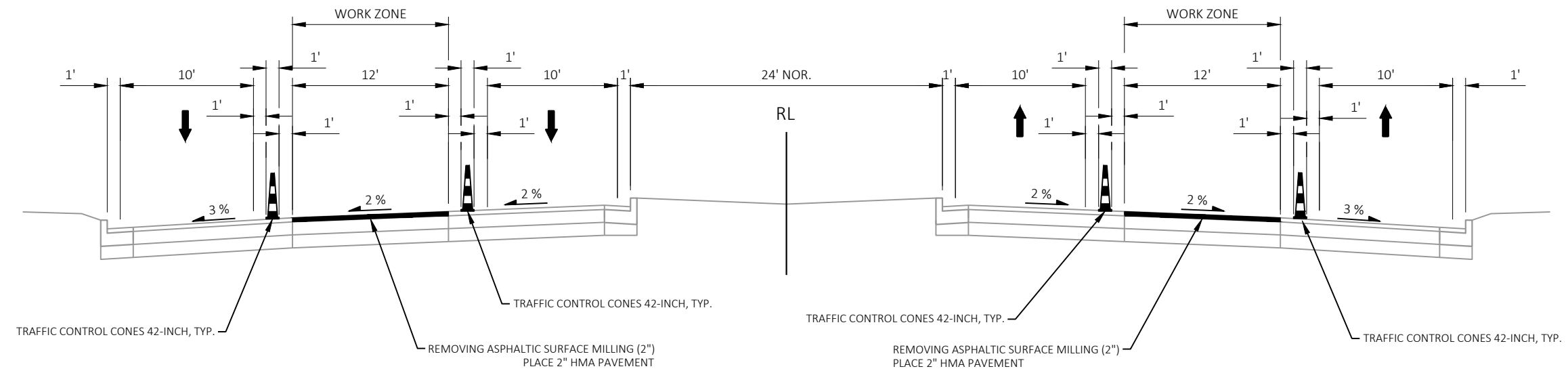
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STA 103+52 - 112+00



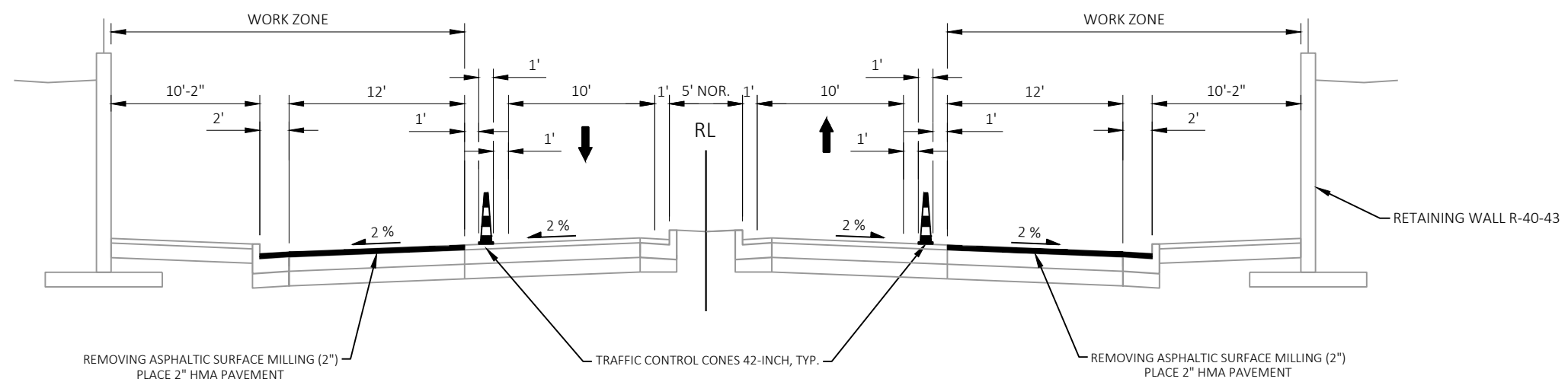
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STA 112+00 - 129+00



STAGE 1
STA 129+00 - 148+42



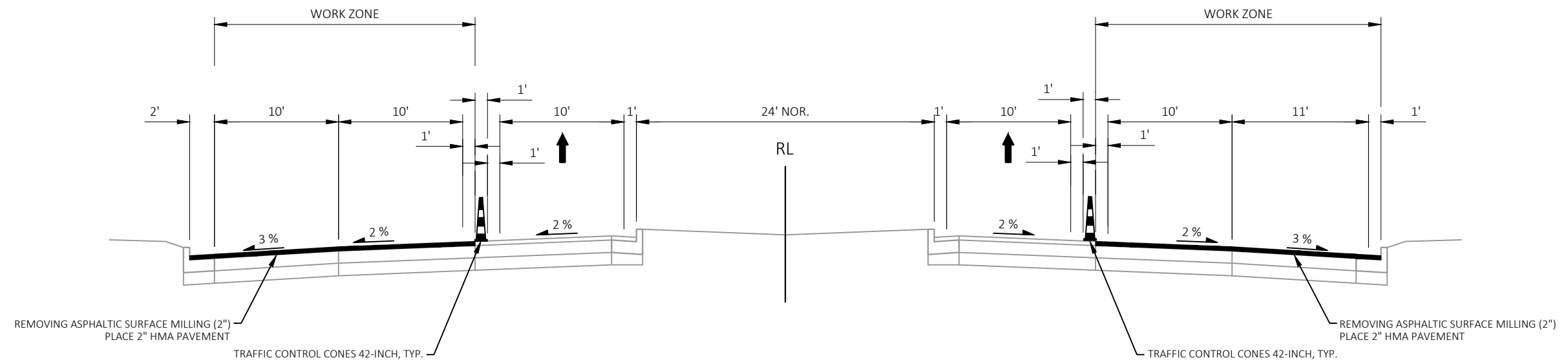
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STA 103+52 - 112+00



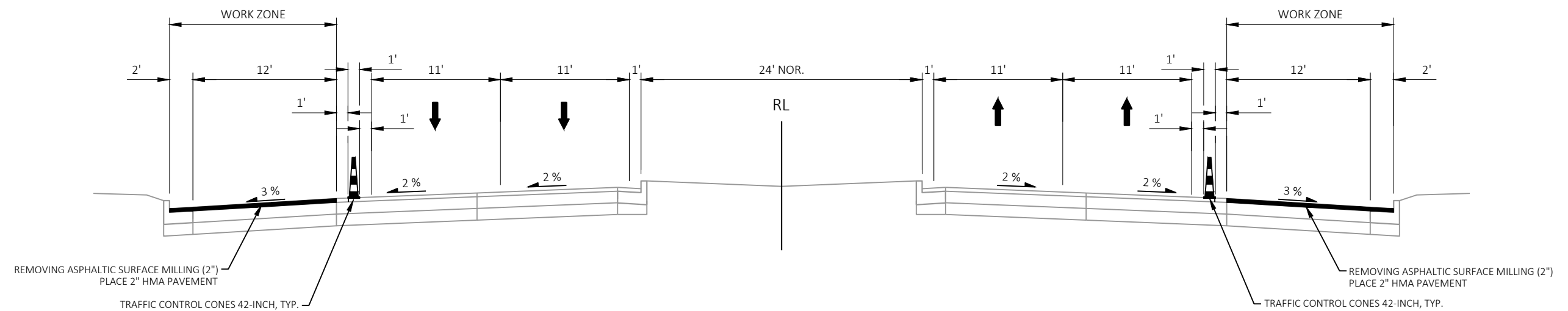
STAGE 2
STA 112+00 - 129+00

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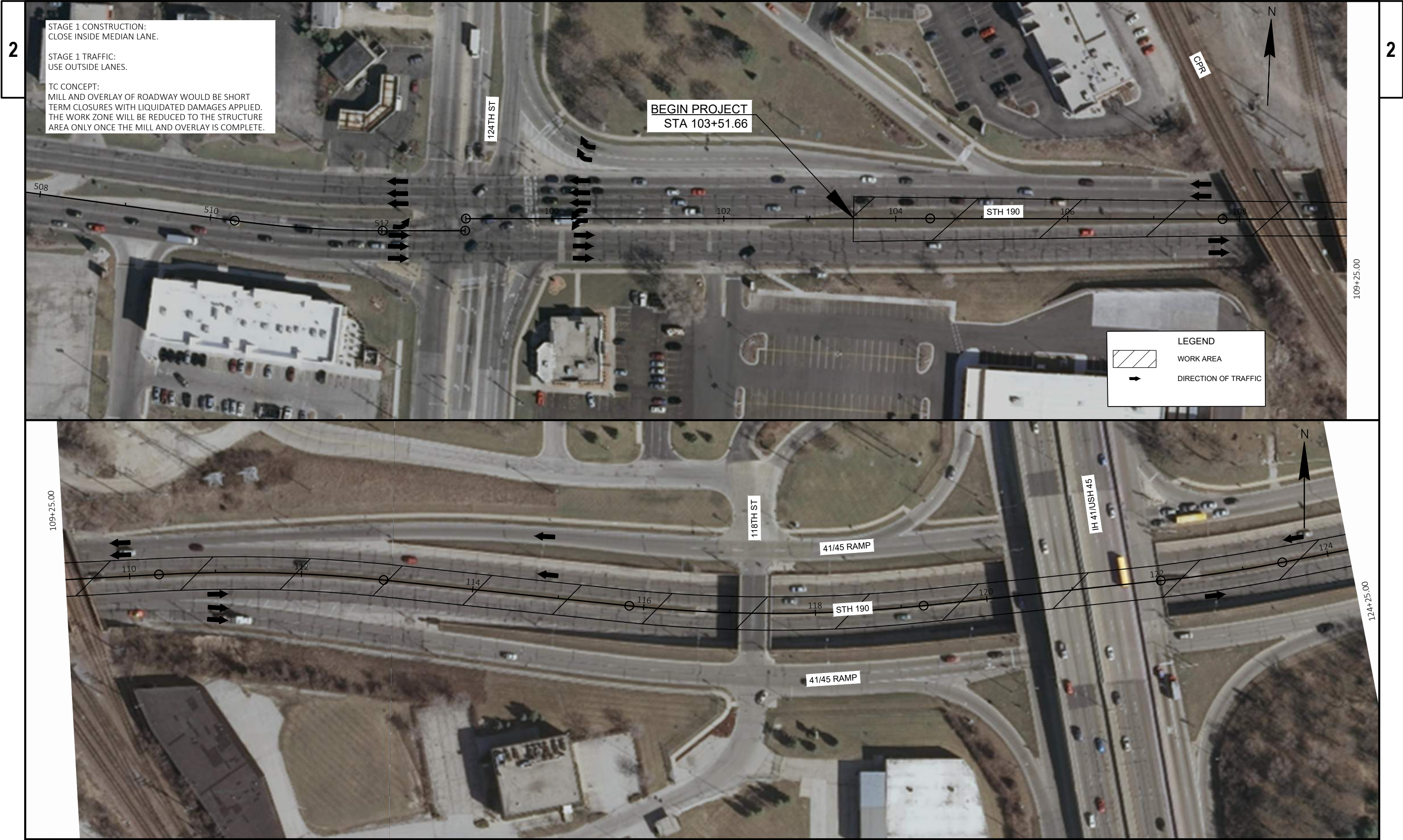
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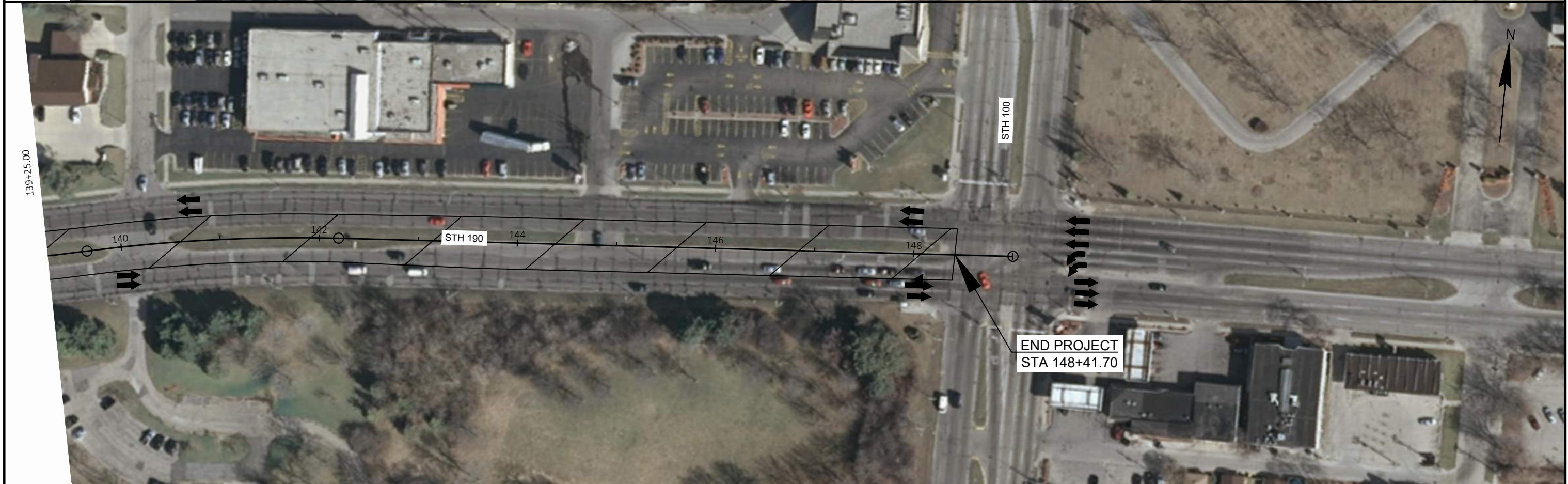
STAGE 2
STA 129+00 - 148+42

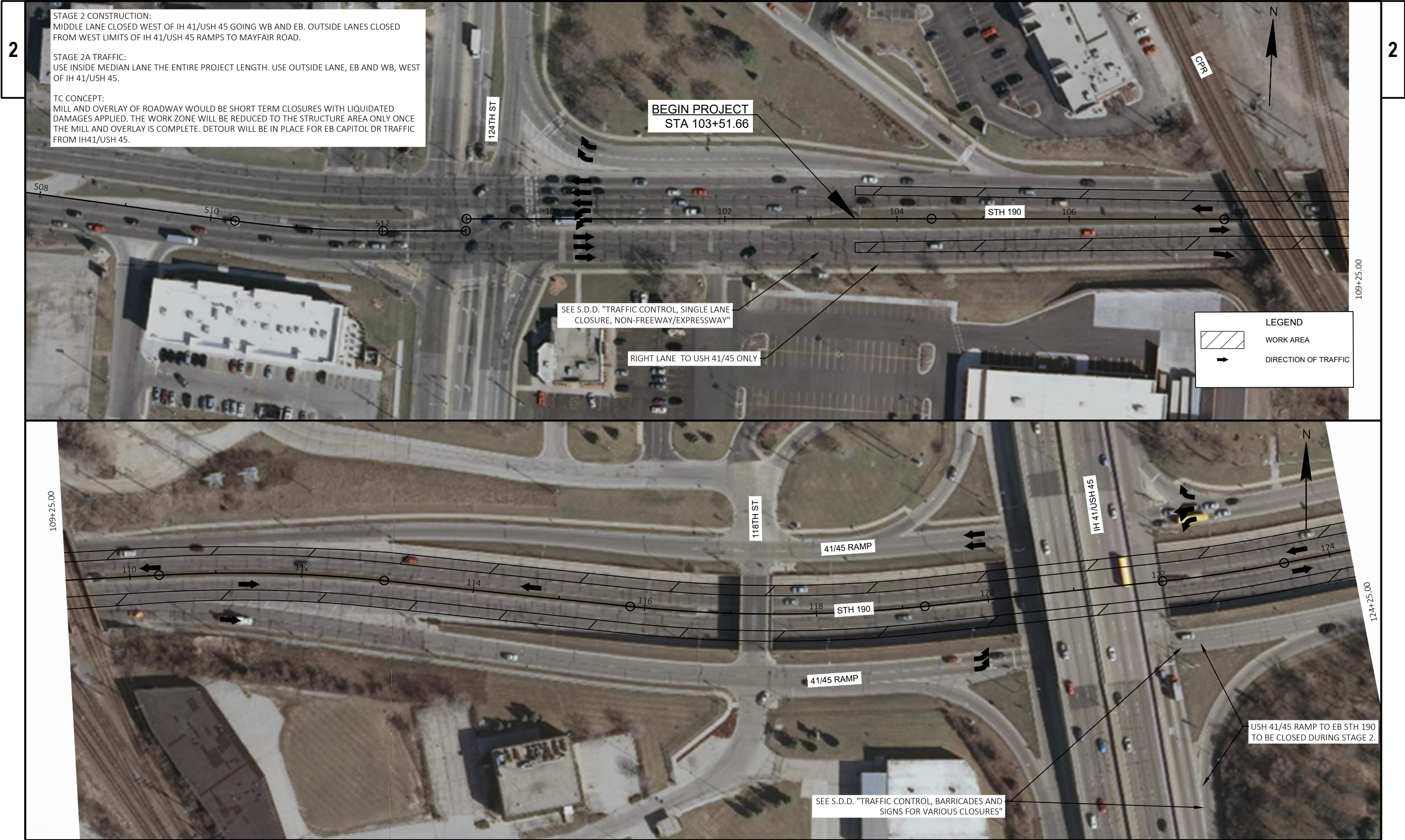


STAGE 2A
STA 103+52 - 112+00



PROJECT NO:	2025-20-70	HWY: STH 190	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1	SHEET	2
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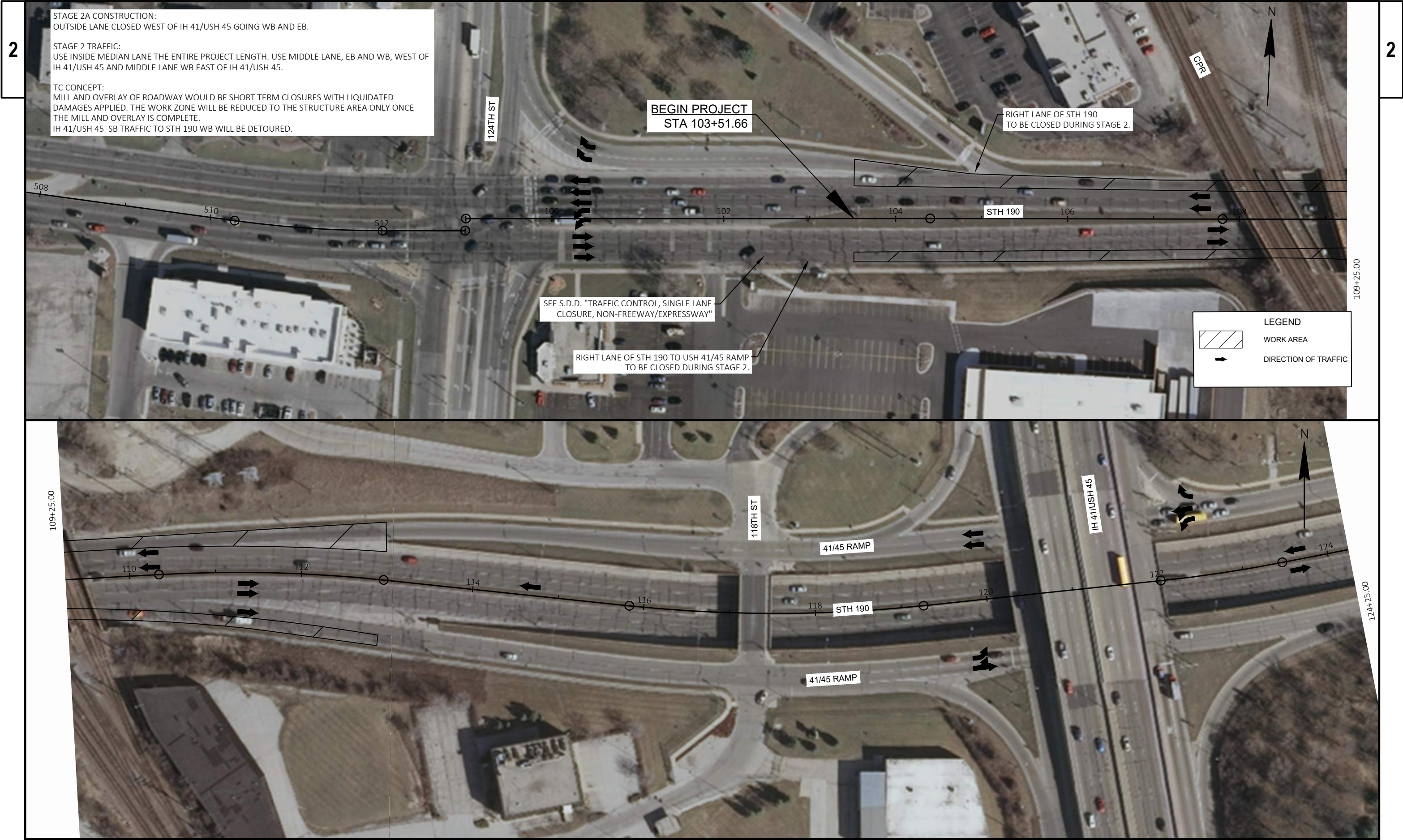


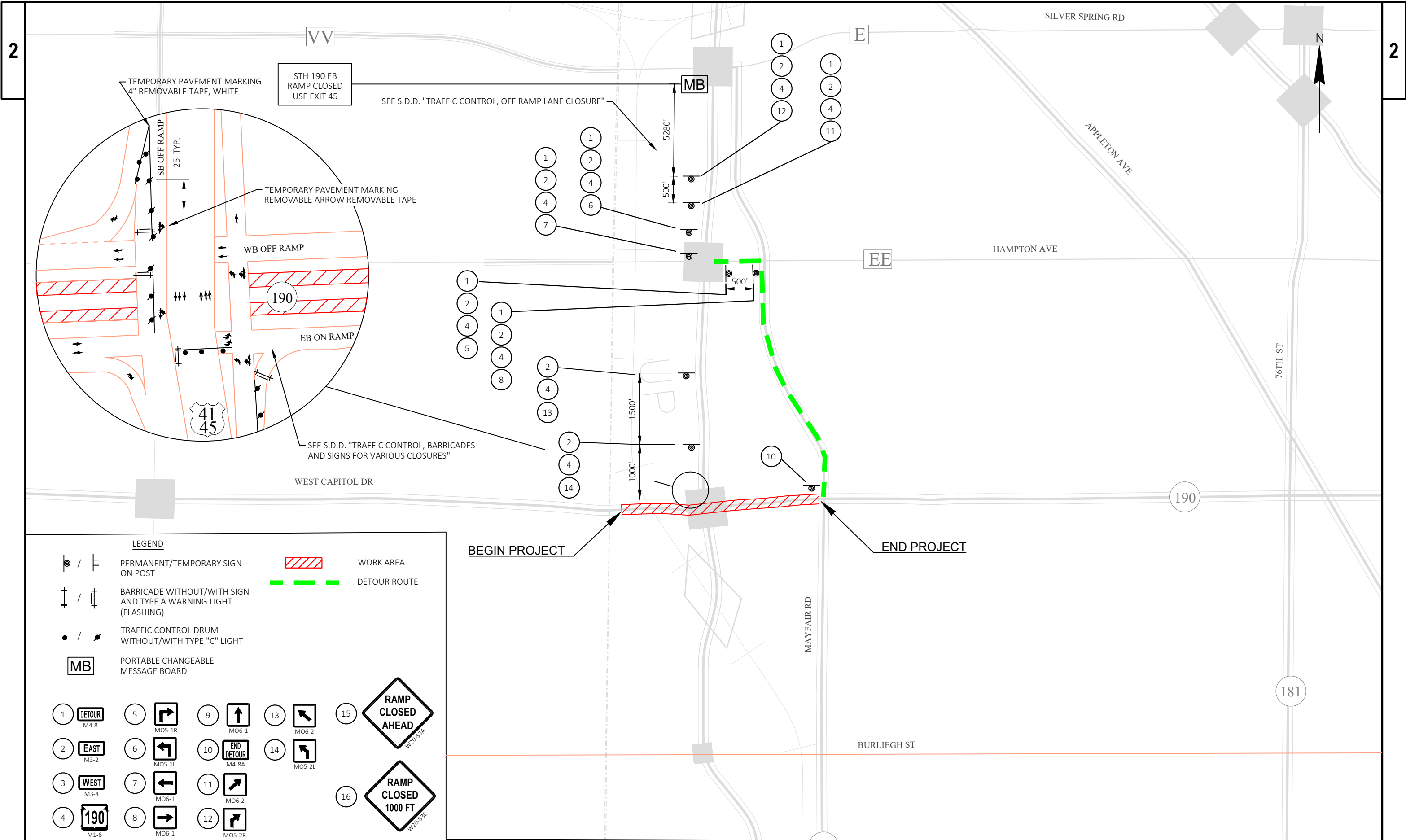


PROJECT NO:	2025-20-70	HWY: STH 190	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET	E
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PROJECT NO:	2025-20-70	HWY: STH 190	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2	SHEET	E
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DESIGN DATA

LIVE LOAD:
DESIGN LOADING _____ HS20
INVENTORY RATING _____ HSXX
OPERATING RATING _____ HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) _____ XX KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY OVERLAY DECKS _____ $f'_c = 4,000$ PSI
ALL OTHER CONCRETE _____ $f'_c = 3,500$ PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT _____ $f_y = 60,000$ PSI

TRAFFIC DATA

STH 190
ADT (2043) = 35,870
DESIGN SPEED = 45 MPH

LEGEND

- DENOTES WING NUMBER
- * EXISTING THRIE BEAM CONNECTION
- DISTANCE BETWEEN INSIDE FACE OF EXTRUSIONS

PLAN
(CONCRETE OVERLAY: 4 SPAN - CONTINUOUS STEEL DECK GIRDER BRIDGE)

NOTE: IR SCAN INFORMATION TO BE INCLUDED WITH FINAL PLAN IF AVAILABLE.

ELEVATION
(LOOKING NORTH)

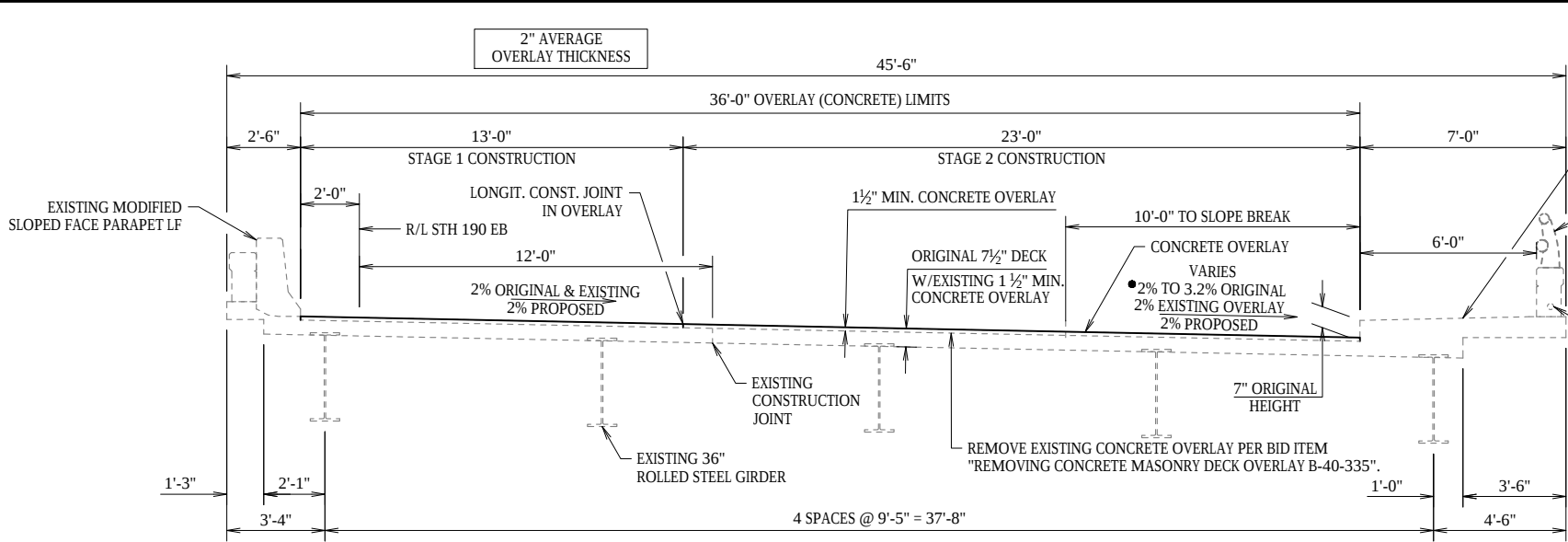
LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES

BRIDGE OFFICE CONTACT
AARON BONK, P.E.
TELEPHONE: (608) 261-0261

CONSULTANT CONTACT
BILL HOVE, P.E.
TELEPHONE: (608) 826-6125

NO.	DATE	REVISION	BY				
CORRE ENGINEERING 6510 GRAND TETON PLAZA SUITE 314 MADISON, WI 53719 (608)828-1011 www.correninc.com STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
APPROVED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____							
STRUCTURE B-40-335							
STH 190 EB (WEST CAPITOL DRIVE) OVER MENOMONEE RIVER							
COUNTY	MILWAUKEE	TOWN/CITY/VILLAGE	WAUWATOSA				
DESIGN SPEC. REHABILITATION N/A							
DESIGNED BY	BH	DESIGN CK'D.	ETP	DRAWN BY	PKF	PLANS CK'D.	BH
GENERAL PLAN						SHEET 1 OF 2	



CROSS SECTION THRU BRIDGE
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	PIER 1	PIER 2	PIER 3	EAST ABUT.	SUPER	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-335	LS							1
* 203.0225.S.01	DEBRIS CONTAINMENT B-40-335	LS							1
502.3101	EXPANSION DEVICE B-40-335	LF							
502.3200	PROTECTIVE SURFACE TREATMENT	SY							
502.3210	PIGMENTED SURFACE SEALER	SY							
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY							
502.4205	ADHESIVE ANCHORS No. 5 BAR	EACH							
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB							
506.6000	BEARING ASSEMBLIES EXPANSION B-40-335	EACH							
506.7050.S	REMOVING BEARINGS B-40-335	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							
509.1200	CURB REPAIR	LF							
509.1500	CONCRETE SURFACE REPAIR	SF							
509.2000	FULL-DEPTH DECK REPAIR	SY							
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY							
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-335	SY							
509.9050.S	CLEANING PARAPETS	LF							
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-40-335	LS							
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-335	LS							
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIAL B-40-335	LS							
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH							
606.0200	RIPRAP MEDIUM	CY							
■ SPV.0090.XX	RAILING REPAIR	LF							
● SPV.0165.XX	CONCRETE SURFACE REMOVAL	SF							
SPV.0180.01	PIGMENTED SURFACE SEALER RESEAL	SY							
SPV.0180.02	ABUTMENT SEAT CLEANING AND SEALING	SY							

ALL BID ITEMS ARE CATEGORY 0020

STATE PROJECT NUMBER
2025-20-70

GENERAL NOTES

THE PROPOSED WORK INCLUDES REMOVAL OF EXISTING CONCRETE MASONRY OVERLAY, PLACEMENT OF A CONCRETE OVERLAY, JOINT REPLACEMENT, BEARING REPLACEMENT AT ABUTMENTS, PAINTING, CONCRETE SURFACE REPAIR OR REMOVAL, CURB AND SIDEWALK REPAIR, RESEALING OF THE SIDEWALK AND PARAPETS, PLACEMENT OF RIPRAP, AND REPAIR OF THE EXISTING RAILING.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

VERTICAL CLEARANCES AND ELEVATIONS ARE BASED ON THE INSPECTION REPORT OR EXISTING PLANS.

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

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

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

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

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", "CONCRETE SURFACE REMOVAL", AND "CONCRETE SURFACE REPAIR" QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL REPAIR LOCATIONS WITH THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1", AND "PREPARATION DECKS TYPE 2".

MATERIALS, EQUIPMENT, ETC. SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW OVERLAY AND JOINT REPAIR LIMITS. PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE EXISTING SIDEWALK AND FACE OF EXISTING CURB.

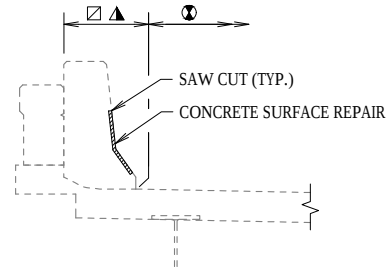
PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF RECONSTRUCTED AND EXISTING PARAPETS. THE BID ITEM "PIGMENTED SURFACE SEALER" COVERS RECONSTRUCTED AND REPAIRED LOCATIONS OR LOCATIONS RECEIVING "CLEANING PARAPETS". THE BID ITEM "PIGMENTED SURFACE SEALER RESEAL" COVERS EXISTING CONCRETE. PERFORM "CLEANING PARAPETS" ONLY AT LOCATIONS DESIGNATED BY THE ENGINEER.

JOINT REPAIR AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

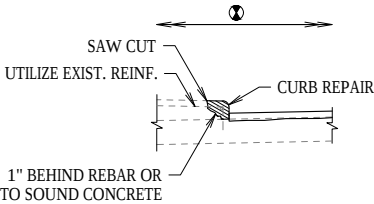
SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CLEAN AND PAINT ALL EXPOSED STEEL UNDER THE DECK, INCLUDING BEARINGS THAT ARE NOT BEING REPLACED. THE COLOR OF THE FINISH TOP COAT SHALL BE AMS STANDARD COLOR # 26293 (LIGHT GRAY).

SEE ROADWAY PLANS FOR TRAFFIC CONTROL DETAILS.



PARAPET REPAIR DETAIL



CURB REPAIR DETAIL

LEGEND

- * DEBRIS CONTAINMENT IS TO BE USED ONLY FOR FULL-DEPTH DECK REPAIRS OVER THE WATERWAY. USE OF DEBRIS CONTAINMENT AT OTHER LOCATIONS WILL NOT BE ALLOWED OR PAID FOR.
- ☆ ANY DAMAGED WIRING OR CONDUIT, INCLUDING WITHIN THE JOINT REPAIR LIMITS, SHALL BE REPLACED AT NO COST TO THE DEPARTMENT.
- ☑ "CLEANING PARAPETS" LIMITS (ONLY AT LOCATIONS DESIGNATED BY ENGINEER)
- ▲ "PIGMENTED SURFACE SEALER" OR "PIGMENTED SURFACE SEALER RESEAL" LIMITS
- ⦿ "PROTECTIVE SURFACE TREATMENT" OR "PROTECTIVE SURFACE TREATMENT RESEAL" LIMITS
- ▣ REPAIR OF EXISTING TUBULAR RAILING AS DIRECTED BY ENGINEER
- ORIGINAL SLOPE VARIES FROM STA. 132+00 (2%) TO EAST END OF DECK (3.2%)
- UTILIZE ITEM AT UNDERSIDE OF DECK ONLY



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-335			
		DRAWN BY	PKF
		PLANS CK'D.	BH
CROSS SECTION & QUANTITIES		SHEET 2 OF 2	



LIVE LOAD:

DESIGN LOADING _____	HS20
INVENTORY RATING _____	HSXX
OPERATING RATING _____	HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) _____	XXX KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY OVERLAY DECKS	$f'_c = 4,000$ PSI
ALL OTHER CONCRETE	$f'_c = 3,500$ PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT	$f_y = 60,000$ PSI

STH 190

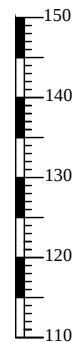
ADT (2043) = 35,870
DESIGN SPEED = 45 MPH

① DENOTES WING NUMBER

- * EXISTING THRIE BEAM CONNECTION
- DISTANCE BETWEEN INSIDE FACE OF WEST ABUTMENT BACKWALL AND EAST ABUTMENT EXTRUSION

NOTE: IR SCAN INFORMATION TO BE INCLUDED WITH FINAL PLAN IF AVAILABLE.

(CONCRETE OVERLAY: SINGLE SPAN - STEEL DECK GIRDER BRIDGE)



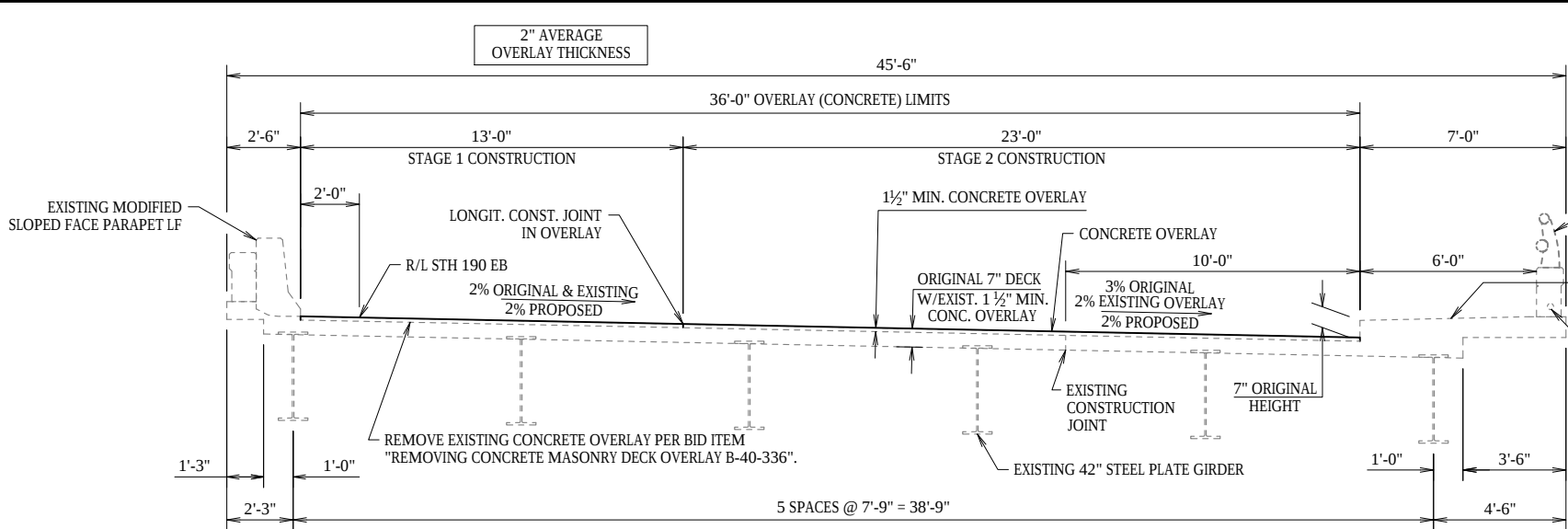
ELEVATION
(LOOKING NORTH)

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES

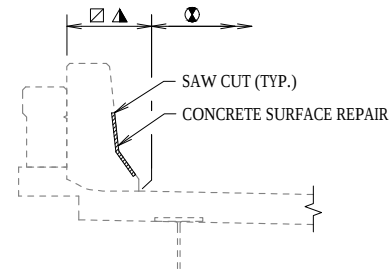
BRIDGE OFFICE CONTACT
AARON BONK, P.E.
TELEPHONE: (608) 261-0261

CONSULTANT CONTACT
BILL HOVE, P.E.
TELEPHONE: (608) 826-6125

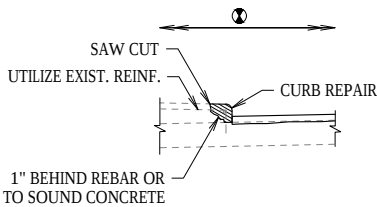
NO.	DATE	REVISION	BY
CORRE ENGINEERING 6510 GRAND TETON PLAZA SUITE 314 MADISON, WI 53719 (608) 226-1011 www.correninc.com			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED _____		DATE _____	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-40-336			
STH 190 EB (W. CAPITOL DRIVE) OVER MENOMONEE RIVER PARKWAY			
COUNTY	MILWAUKEE	TOWN/CITY/VILLAGE	WAUKESHA
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY BH	DESIGN CK'DN ETP	DRAWN BY PKF	PLANS CK'DN BH
GENERAL PLAN		SHEET 1 OF 2	



CROSS SECTION THRU BRIDGE
(LOOKING EAST)



PARAPET REPAIR DETAIL



CURB REPAIR DETAIL

LEGEND

- "CLEANING PARAPETS" LIMITS (ONLY AT LOCATIONS DESIGNATED BY ENGINEER)
- ▲ "PIGMENTED SURFACE SEALER" OR "PIGMENTED SURFACE SEALER RESEAL" LIMITS
- ⊙ "PROTECTIVE SURFACE TREATMENT" OR "PROTECTIVE SURFACE TREATMENT RESEAL" LIMITS
- UTILIZE ITEM AT UNDERSIDE OF DECK ONLY
- ☆ ANY DAMAGED WIRING OR CONDUIT, INCLUDING WITHIN THE JOINT REPAIR LIMITS, SHALL BE REPLACED AT NO COST TO THE DEPARTMENT.

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-336	LS				1
492.2010.S	SEALING CRACKS/JOINTS WITH HOT-APPLIED SEALANT	GAL				
502.3101	EXPANSION DEVICE B-40-336	LF				
502.3200	PROTECTIVE SURFACE TREATMENT	SY				
502.3210	PIGMENTED SURFACE SEALER	SY				
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY				
502.4205	ADHESIVE ANCHORS No. 5 BAR	EACH				
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB				
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				
509.1200	CURB REPAIR	LF				
509.1500	CONCRETE SURFACE REPAIR	SF				
509.2000	FULL-DEPTH DECK REPAIR	SY				
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY				
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-336	SY				
509.9050.S	CLEANING PARAPETS	LF				
SPV.0060	BEARING REPAIR	EACH				
SPV.0165.XX	CONCRETE SURFACE REMOVAL	SF				
SPV.0180.01	PIGMENTED SURFACE SEALER RESEAL	SY				
SPV.0180.02	ABUTMENT SEAT CLEANING AND SEALING	SY				

ALL BID ITEMS ARE CATEGORY 0030

STATE PROJECT NUMBER
2025-20-70

GENERAL NOTES

THE PROPOSED WORK INCLUDES REMOVAL OF EXISTING CONCRETE MASONRY OVERLAY, PLACEMENT OF A CONCRETE OVERLAY, JOINT REPLACEMENT, CONCRETE SURFACE REPAIR OR REMOVAL, BEARING REPAIR, CURB AND SIDEWALK REPAIR, SLOPE PAVING REPLACEMENT, AND RESEALING OF THE SIDEWALK AND PARAPETS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

VERTICAL CLEARANCES AND ELEVATIONS ARE BASED ON THE INSPECTION REPORT OR EXISTING PLANS.

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

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

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

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

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", "CONCRETE SURFACE REMOVAL", AND "CONCRETE SURFACE REPAIR" QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL REPAIR LOCATIONS WITH THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1", AND "PREPARATION DECKS TYPE 2".

MATERIALS, EQUIPMENT, ETC. SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW OVERLAY AND JOINT REPAIR LIMITS. PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE EXISTING SIDEWALK AND FACE OF EXISTING CURB.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF RECONSTRUCTED AND EXISTING PARAPETS. THE BID ITEM "PIGMENTED SURFACE SEALER" COVERS RECONSTRUCTED AND REPAIRED LOCATIONS OR LOCATIONS RECEIVING "CLEANING PARAPETS". THE BID ITEM "PIGMENTED SURFACE SEALER RESEAL" COVERS EXISTING CONCRETE. PERFORM "CLEANING PARAPETS" ONLY AT LOCATIONS DESIGNATED BY THE ENGINEER.

JOINT REPAIR AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

SEE ROADWAY PLANS FOR TRAFFIC CONTROL DETAILS.

PERFORM SLOPE PAVING CONCRETE REPLACEMENT ONLY AT LOCATIONS DIRECTED BY THE ENGINEER.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-336			
	DRAWN BY	PKF	PLANS CK'D. BH
CROSS SECTION & QUANTITIES		SHEET 2 OF 2	

