

Madison, Wisconsin

INDEX OF SHEETS

SHEET NO.	TITLE
1	
CE-1	CURBWORK
E1-E9	ELECTRICAL PLANS
PM1-PM2	PAVEMENT MARKING PLAN
S1-S2	SIGNING PLAN

NO MAINTENANCE PLAN WITH THIS PROJECT

CITY OF MADISON

CITY ENGINEERING DIVISION

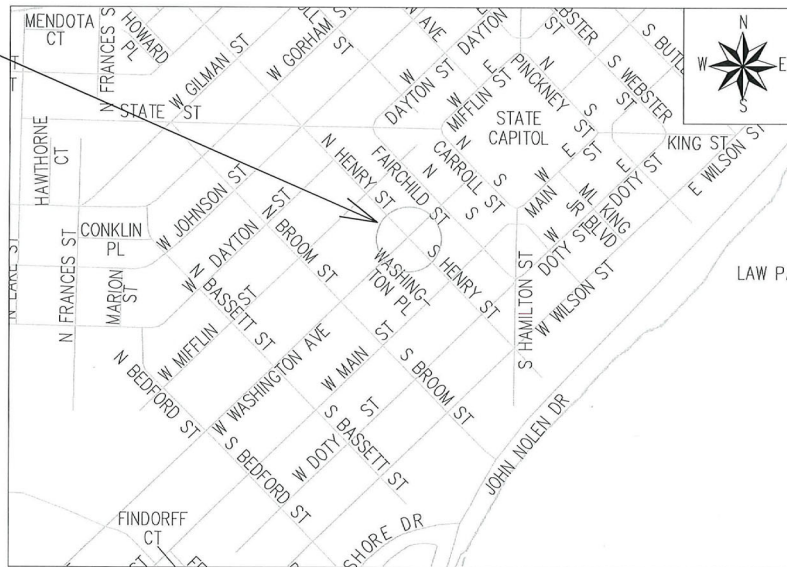
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

HENRY STREET & WEST WASHINGTON AVENUE TRAFFIC SIGNAL

CITY PROJECT NO. 13480
CONTRACT NO. 8655

PROJECT LOCATION



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▤
COMBUSTIBLE FLUIDS	☀

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMP SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12", SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.50%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 29, 2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Greg Fries Jun 24, 2022

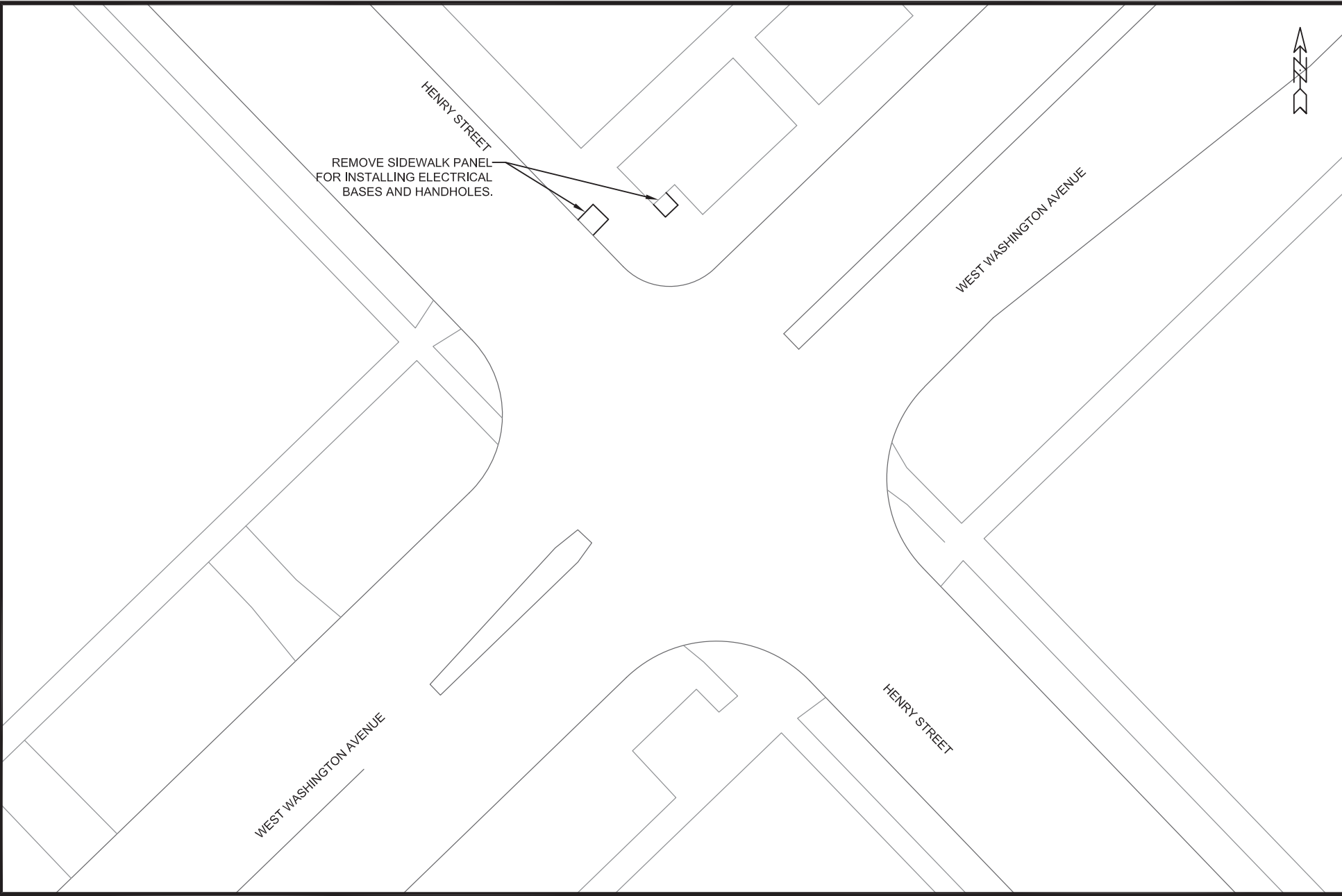
City Engineer Date

ELECTRICAL DESIGNED BY:



GEOMETRICS & PAVEMENT MARKINGS DESIGNED BY:





REMOVE SIDEWALK PANEL
FOR INSTALLING ELECTRICAL
BASES AND HANDHOLES.



13480
CE-1

CURBWORK
HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL
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13480
MADISON, WI
CONTRACT NO:

NO.	DATE	DESCRIPTION	BY	DATE
1		ISSUED FOR PERMITS		
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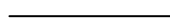
13480
Date: 3/2/2023
Scale: 1" = 60'-1"

GENERAL ELECTRICAL NOTES:

1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA (608) 267-1969 CITY TRAFFIC ENGINEERING, AT LEAST 24-HRS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2022 EDITION" AND ALL ADDENDUMS THERETO.
3. ALL CONDUIT SHALL BE PVC, SCHEDULE 80 BENEATH PAVEMENT OR SCHEDULE 40 OTHERWISE, PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL CALL TROY VANT (608) 395-1975 AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HRS IN ADVANCE OF PLACING CONCRETE, INSTALLING BASES, INSTALLING HANDHOLES, OR BURYING CONDUIT FOR INSPECTION.
5. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
6. PER STANDARD SPECIFICATION, RESTORING TERRACES DUE TO CONDUIT INSTALLATION IS INCIDENTAL TO CONSTRUCTION. RESTORING LANDSCAPED MEDIAN IS COVERED UNDER SPECIAL PROVISION.
7. EXISTING STREET LIGHTS SHALL BE IN SERVICE EVERY NIGHT.
8. THE CONTRACTOR SHALL ARRANGE FOR PICK UP OF THE FOLLOWING CITY FURNISHED MATERIALS, WHICH SHOULD BE ARRANGED FOR PICK UP BY CALLING ED SMITH, TRAFFIC ENGINEERING SHOP (608) 266-8031 AT 1120 SAYLE STREET.
 - 8.1. (32) $\frac{3}{4}$ " BY 19" ANCHOR BOLTS FOR TYPE G BASES (6 TOTAL).
 - 8.2. (4) 1" BY 40" ANCHOR BOLTS FOR LB-3 BASES (1 TOTAL).
 - 8.3. (12) $1\frac{1}{4}$ " BY 48" ANCHOR BOLTS FOR LB-8 BASES (3 TOTAL)



60413 TYPE P BASE



2-INCH PVC CONDUIT SCHEDULE 40, UNLESS NOTED ON PLANS AND QUANTITIES.



60407 TYPE LB-8 BASE



60403 TYPE LB-3 BASE WITH STREETLIGHT



60403 TYPE LB-3 BASE



60411 TYPE G BASE



INSTALL CITY FURNISHED TYPE III HANDHOLE



INSTALL CITY FURNISHED TYPE II HANDHOLE

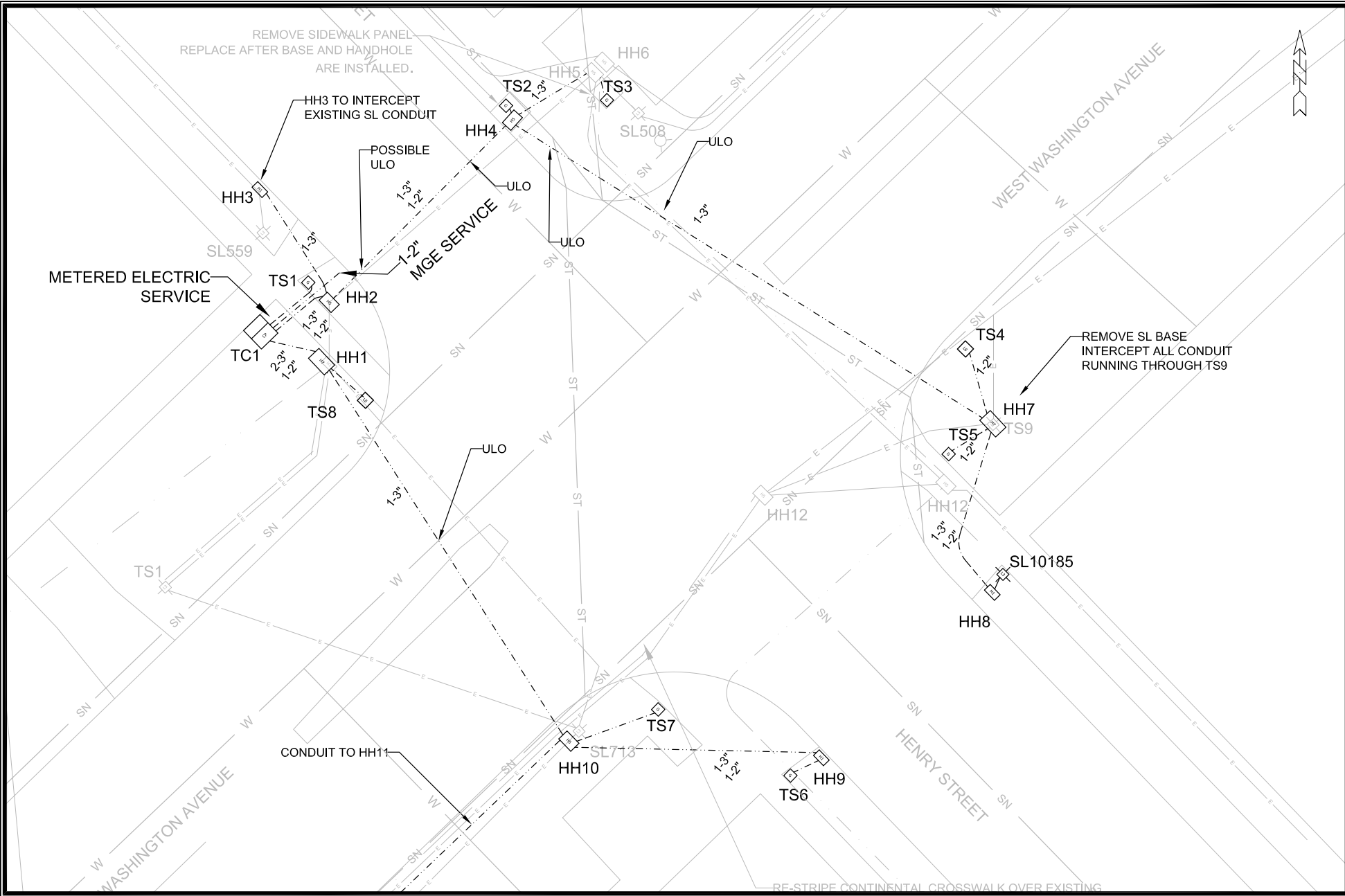


INSTALL CITY FURNISHED TYPE V HANDHOLE



INSTALL CITY FURNISHED TYPE VII HANDHOLE

ELECTRICAL COVER	13480	MADISON, WI	DATE: N/A	BY: E-1
HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL			REVISION	DATE
M:\DESIGN\Projects\13480\CAD\13480_TE_REDUCED SCOPE DESIGN.dwg			DATE: 3/2/22	BY: E-1
	CONTRACT NO:	8655		
	13480			
	E-1			



REMOVE SIDEWALK PANEL
REPLACE AFTER BASE AND HANDHOLE
ARE INSTALLED.

HH3 TO INTERCEPT
EXISTING SL CONDUIT

POSSIBLE
ULO

1-2"
MGE SERVICE

METERED ELECTRIC
SERVICE

REMOVE SL BASE
INTERCEPT ALL CONDUIT
RUNNING THROUGH TS9

CONDUIT TO HH11

RE-STRIPE CONTINENTAL CROSSWALK OVER EXISTING

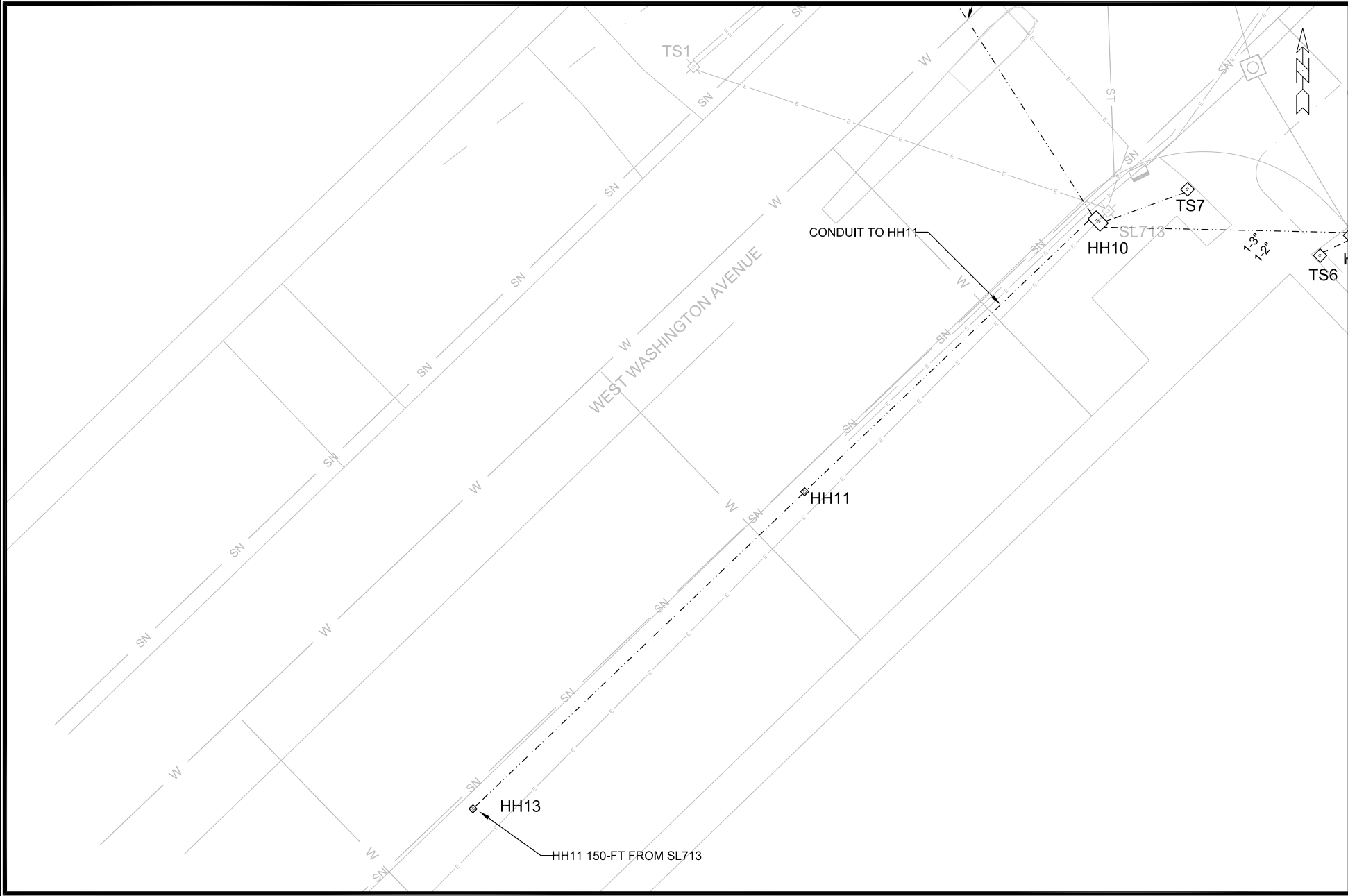
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13480
MADISON, WI
8655
CONTRACT NO:

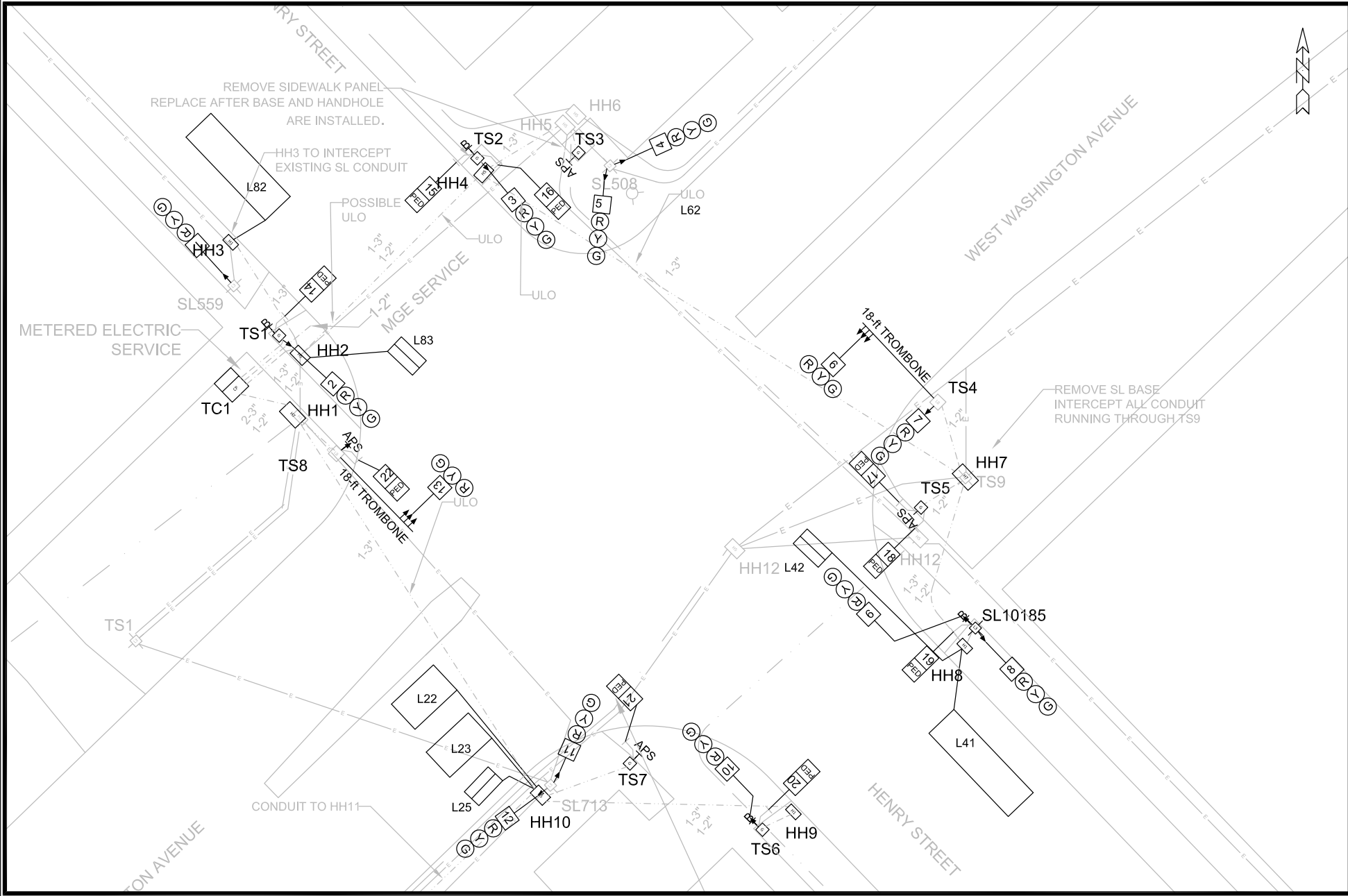
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13480
E-2



	13480	13480	13480
	ELECTRICAL	HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL	MADISON, WI
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PROJECT: 13480		REVISION	DATE BY
SHEET: 11 OF 11		13480	DATE BY

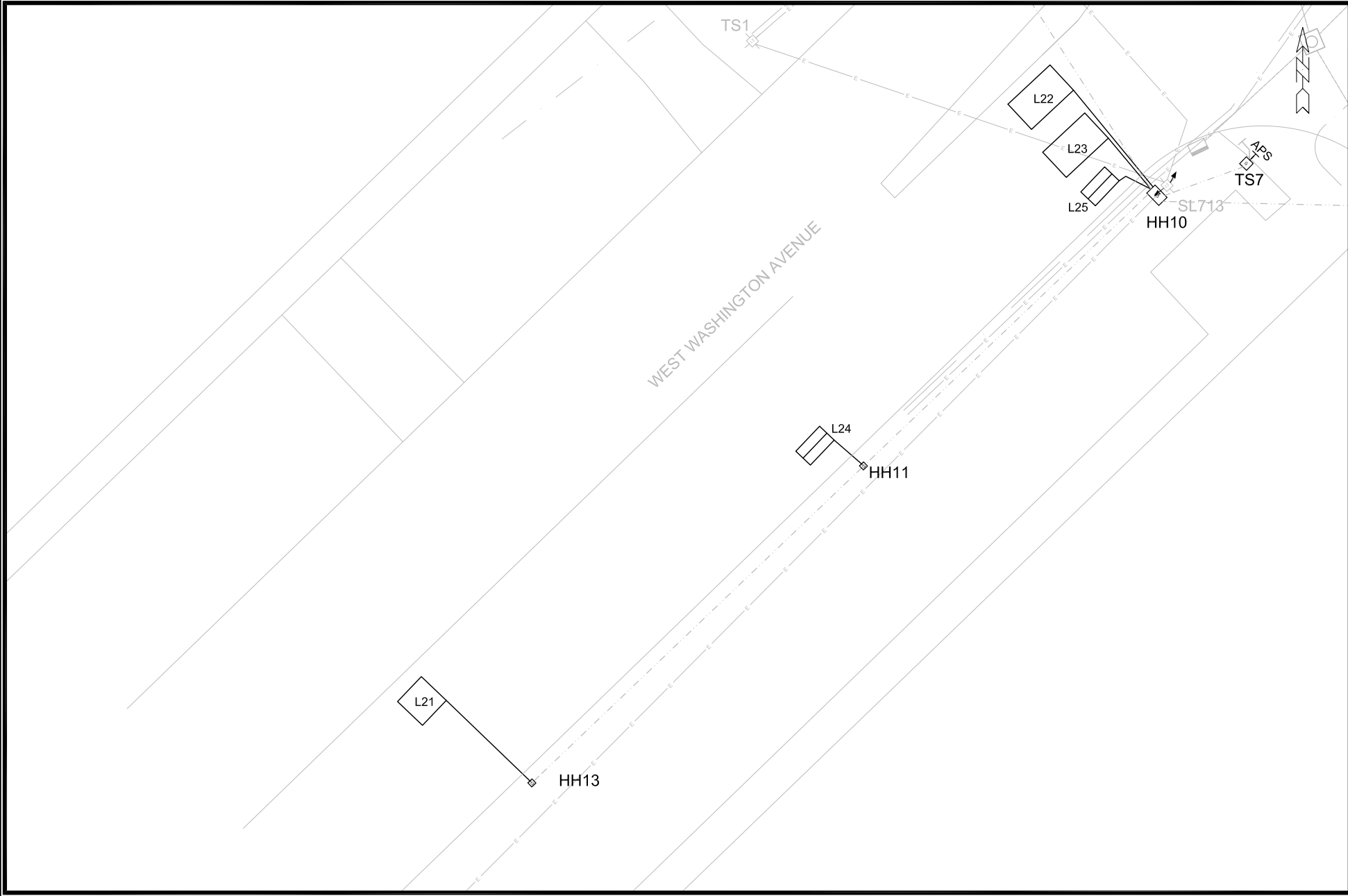



DATE	BY	REVISION
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03/03/2022	WJ	5
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13480
 MADISON, WI
 CONTRACT NO: 8655

ELECTRICAL - SIGNAL LAYOUT
 HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL
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13480
 E-4



	13480	13480	MADISON, WI HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL M:\DESIGN\Projects\13480\CAD\13480_TE_REDUCED SCOPE DESIGN.dwg	DATE	BY
	E-5	E-5		CONTRACT NO: 8655	REVISION
ELECTRICAL - SIGNAL LAYOUT		13480	MADISON, WI	DATE	BY
HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL		13480	MADISON, WI	REVISION	DATE
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CONTRACT NO: 8655		13480	MADISON, WI	REVISION	DATE
E-5		13480	MADISON, WI	DATE	BY



FROM STRUCTURE	TO STRUCTURE	FURNISH & INSTALL						NOTES
		60222 3 INCH PVC (SCHEDULE 80) (LF)	60224 3 INCH PVC (SCHEDULE 40) (LF)	60230 2 INCH PVC (SCHEDULE 80) (LF)	60232 2 INCH PVC (SCHEDULE 40) (LF)	60241 GOPHER RACEWAY FOR ELECTRICAL CONDUIT OR C.I.D. (LF)	60261 ELECTRICAL TRENCH (LF)	
TC1	MGE	-	-	-	15	15	15	FOR MGE ELECTRIC SERVICE
TC1	TS1	-	-	-	12	-	-	(1) - 2"
TC1	HH1	-	24	-	12	-	12	(2) - 3", (1) - 2"
TC1	HH2	-	12	-	12	-	-	(1) - 3", (1) - 2"
HH2	HH3	-	23	-	-	23	-	(1) - 3"
HH2	HH4	32	-	32	-	32	-	(1) - 3", (1) - 2"
HH4	TS2	-	-	-	3	-	3	(1) - 2"
HH4	HH5	-	17	-	-	17	-	(1) - 3"
HH4	TS3	-	-	-	6	-	6	(1) - 2"
HH4	HH7	100	-	-	-	100	-	(1) - 3"
HH7	TS4	-	-	-	14	-	14	(1) - 2"
HH7	TS5	-	-	-	10	-	10	(1) - 2"
HH7	HH8	-	32	-	32	20	12	(1) - 3", (1) - 2"
HH8	SL10185	-	-	-	5	-	5	(1) - 2"
HH1	TS8	-	10	-	-	-	10	(1) - 3"
HH1	HH10	80	-	-	-	80	-	(1) - 3"
HH10	TS7	-	-	-	17	-	17	(1) - 2"
HH10	HH9	-	45	-	45	45	-	(1) - 3", (1) - 2"
HH9	TS6	-	-	-	7	-	7	(1) - 2"
HH10	HH11	-	-	-	70	-	70	(1) - 2"
HH11	HH12	-	-	-	80	-	80	(1) - 2"
TOTALS		212	163	32	340	332	261	

ELECTRICAL - MISC. QTY

13480

HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL

MADISON, WI

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CONTRACT NO:

8655

MARK	REVISION	DATE	BY
13480			
Scale: 1" = 1'			ES7





FROM STRUCTURE	TO STRUCTURE	FURNISH & INSTALL					60253 FURNISH & INSTALL 3 #4 AND 1 #8 WIRES (L.F.)	NOTES
		SPV90002 CABLE TRAFFIC SIGNAL 5-14 (LF)	SPV90003 CABLE TRAFFIC SIGNAL 7-14 (LF)	SPV90004 CABLE TRAFFIC SIGNAL 9-14 (LF)	SPV90005 CABLE TRAFFIC SIGNAL 12- 14 (LF)	SPV90006 LOOP DETECTOR LEAD IN WIRE (LF)		
TC1	TS1	-	-	27	-	-	-	
TC1	SL559	60	-	-	-	-	-	
TC1	TS2	-	-	85	-	-	-	
TC1	TS3	110	-	-	-	-	-	
TC1	SL508	-	125	-	-	-	-	
TC1	TS4	-	-	220	-	-	-	
TC1	TS5	-	-	185	-	-	-	
TC1	SL10185	-	-	-	220	-	220	
TC1	TS6	-	-	160	-	-	-	
TC1	TS7	-	130	-	-	-	-	
TC1	SL713	-	-	120	-	-	-	
TC1	TS8	-	-	-	70	-	-	
TC1	HH3	-	-	-	-	40	-	(1) CABLE
TC1	HH8	-	-	-	-	200	-	(1) CABLE
TC1	HH10	-	-	-	-	330	-	(3) CABLES
TC1	HH11	-	-	-	-	180	-	(1) CABLE
TC1	HH13	-	-	-	-	260	-	(1) CABLE
TC1	HH2	-	-	-	-	12	-	(1) CABLE
TOTALS		170	255	797	290	1022	220	



ELECTRICAL - MISC. QTY

HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL

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MADISON, WI

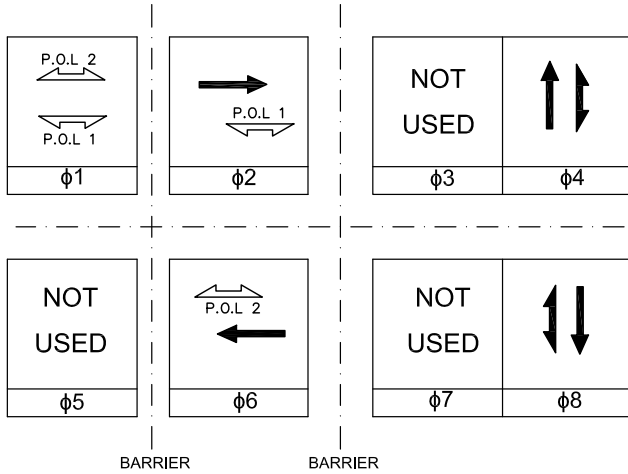
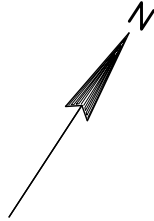
CONTRACT NO: 8655

DATE	BY	REVISION
DATE: 3/12/2022	DATE: 3/12/2022	DATE: 3/12/2022
13480	13480	13480

E-8

HEAD NUMBERS	FLASH
φ1	
φ2	5, 6, 10
φ3	
φ4	2, 3, 7
φ5	
φ6	4, 11, 12
φ7	
φ8	1, 8, 9
φ2 PED	
φ4 PED	15, 16, 17, 18
φ6 PED	
φ8 PED	20, 23
OLA	
OLB	
PED OL 1	19, 25
PED OL 2	13, 14
OLX	
OLX	
OLX	

O.L. ASSIGNMENTS	
OLA	
OLB	
PED OL 1	φ1 + φ2
PED OL 2	φ1 + φ6
OLX	
OLX	
OLX	



PREEMPTION ASSIGNMENTS			
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RESERVED		
2	RESERVED		
3	EB/WB EVP		2, 6
4	NB/SB EVP		4, 8
5	NOT USED		
6	NOT USED		
7	NOT USED		
8	NOT USED		
9	NOT USED		
10	NOT USED		

CONTROLLER LOGIC

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

NOTES:

1. APS BUTTONS FOR ALL CROSSINGS OF WEST WASH. (5 BUTTONS TOTAL)
2. STANDARD PED BUTTONS FOR CROSSING HENRY. EB ADVANCE/STOP BAR BIKE DETECTOR CALLS PHASE 1 WHICH IS A 6" PHASE DISPLAYING WALKS CROSSING HENRY STREET, SUPPLEMENTED BY SIGN STATING "BIKES MAY USE WALK SIGNAL."
4. LATE NIGHT REST IN RED OPERATION.
5. EMERGENCY RED-RED FLASH ONLY.

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	X
RADIO	

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

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION	
NONE	
FIBER	X
CELL MODEM	
PHONE	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)		21	24	41	62	61		82
PHASE CALLED		2	2	4	2	2		8
PHASE EXTENDED		2	2	4	2	2		8
DISCONNECT TIME								15"
CALLING DELAY								
EXTENSION STRETCH			7.0"					
LOOP FUNCTION			BIKE		BIKE			

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR NOTES:

- 21 = EB REAR
- 22 = EBLT STOP BAR
- 23 = EB THRU STOP BAR
- 24 = EB BIKE REAR
- 25 = EB BIKE STOP BAR
- 61 = WB THRU
- 62 = WB BIKE
- 63 = WBLT
- 81 = NOT USED
- 82 = SB STOP BAR
- 83 = WBLT BIKE BOX
- 41 = NB STOP BAR
- 42 = EBLT BIKE BOX

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	23	22	25	42		63		83
PHASE CALLED	2	2	1,2	4		2		8
PHASE EXTENDED	2	2	2			2		
DISCONNECT TIME	12"	12"						
CALLING DELAY				3				
EXTENSION STRETCH								
LOOP FUNCTION			BIKE	BIKE				BIKE

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

- GENERAL PAVEMENT MARKING NOTES:**
1. REMOVE MARKINGS AS SHOWN ON PLAN.
 2. CONTACT TRAFFIC ENGINEERING, JERRY SCHIPPA (608) 267-1969 AT LEAST 48-HRS PRIOR TO REMOVAL TO WALK THROUGH PROJECT REMOVALS.
 3. CONTINENTAL CROSSWALK ON WEST SIDE TO REMAIN, WILL BE STRIPED OVER POST CURBWORK.
 4. ALL OTHER MARKINGS TO BE MAINTAINED.

MATCH NEW LANE LINE MARKING TO EXISTING MARKING

REMOVE 6-INCH LANE LINE 56-LF

EXISTING MARKING TO BE REMOVED WITH PAVEMENT REMOVAL.

REMOVE 6-INCH LANE LINE 92-LF

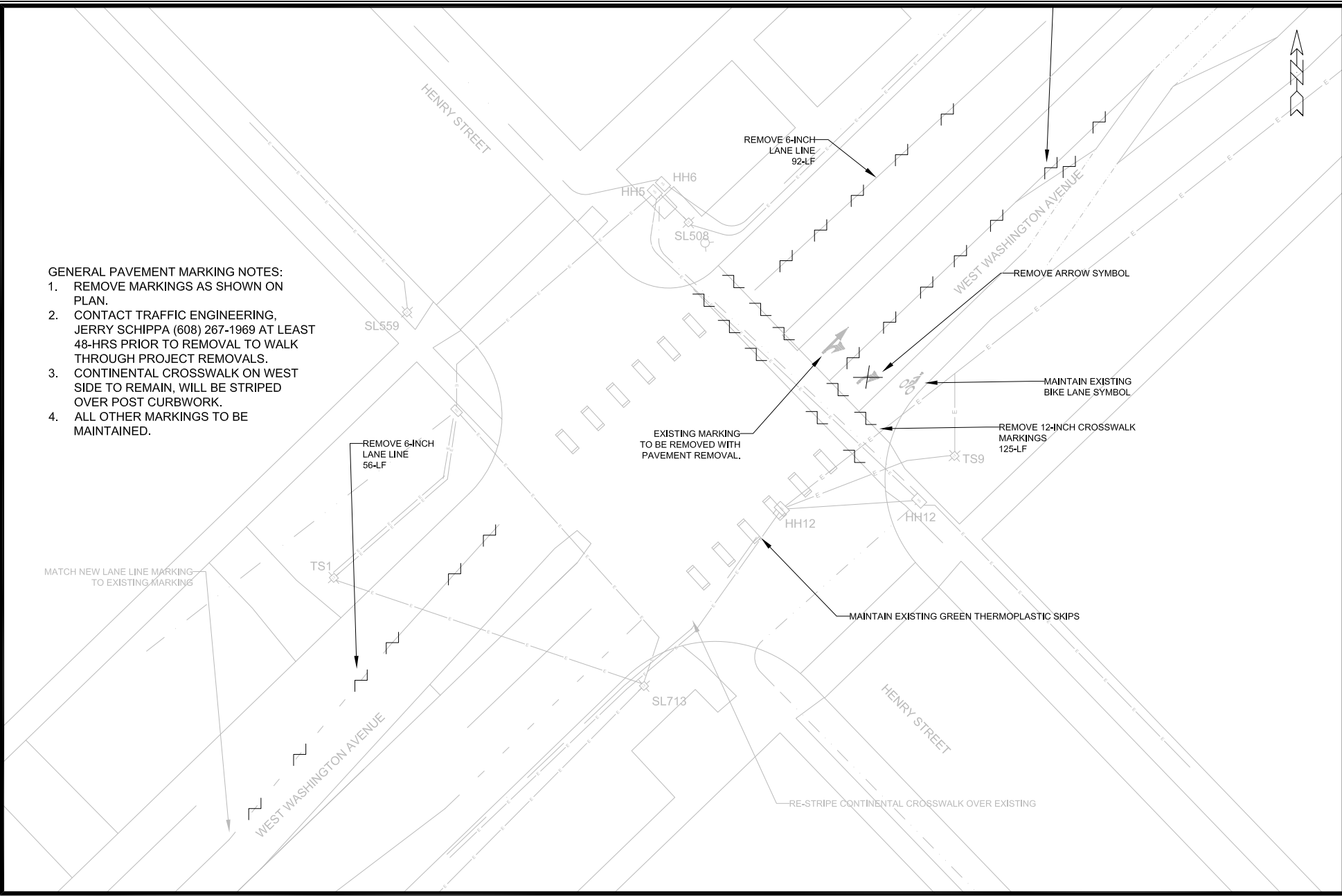
REMOVE ARROW SYMBOL

MAINTAIN EXISTING BIKE LANE SYMBOL

REMOVE 12-INCH CROSSWALK MARKINGS 125-LF

MAINTAIN EXISTING GREEN THERMOPLASTIC SKIPS

RE-STRIPES CONTINENTAL CROSSWALK OVER EXISTING



DATE	BY	PM-1
REVISION		
DATE	BY	
MARK	U.S.	13480
PROJECT		13480

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MADISON, WI
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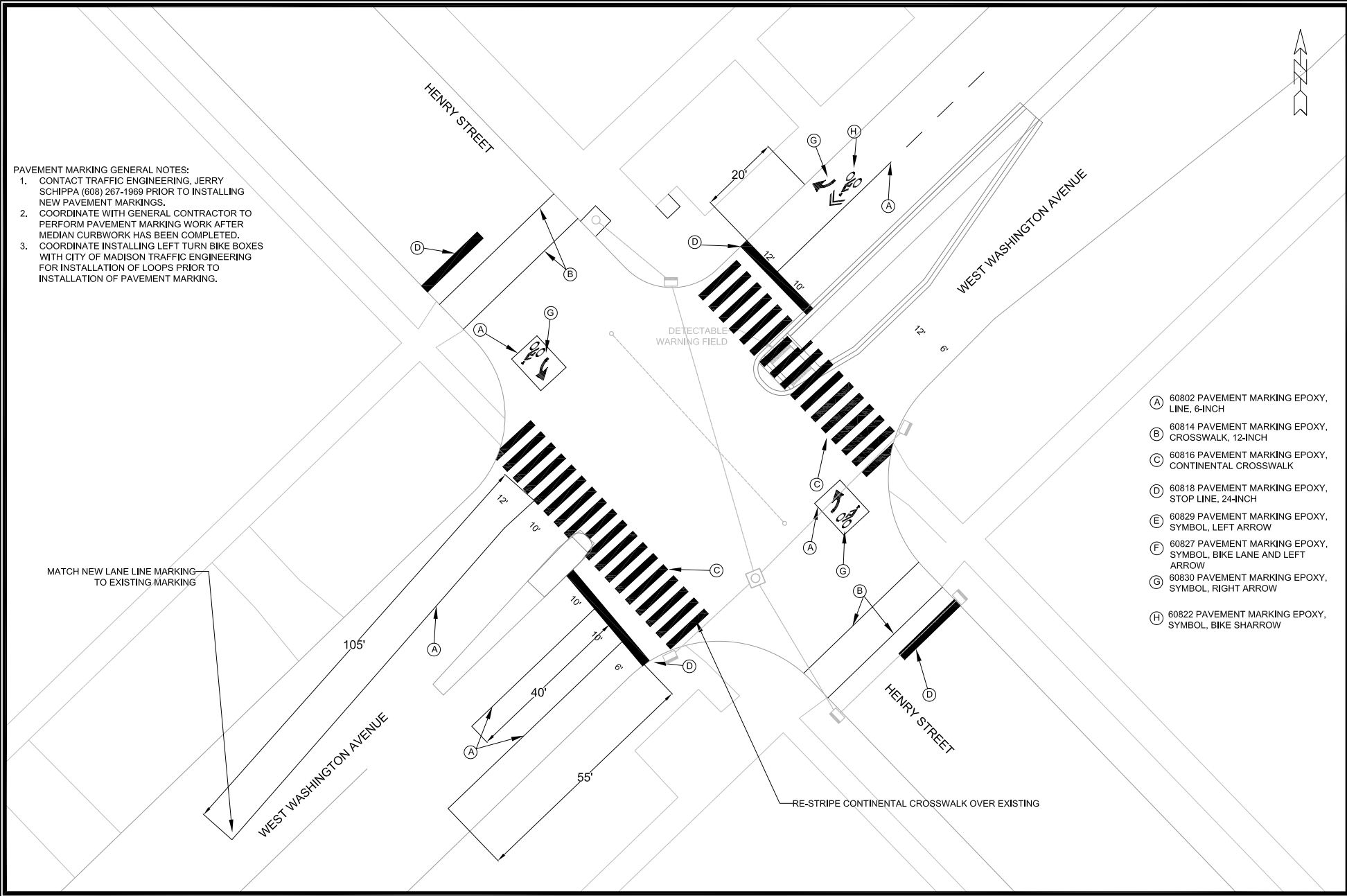
13480
PM-1

PAVEMENT MARKING REMOVAL

HENRY ST. & WEST WASHINGTON AVE TRAFFIC SIGNAL

PAVEMENT MARKING GENERAL NOTES:

- CONTACT TRAFFIC ENGINEERING, JERRY SCHIPPA (608) 267-1969 PRIOR TO INSTALLING NEW PAVEMENT MARKINGS.
- COORDINATE WITH GENERAL CONTRACTOR TO PERFORM PAVEMENT MARKING WORK AFTER MEDIAN CURBWORK HAS BEEN COMPLETED.
- COORDINATE INSTALLING LEFT TURN BIKE BOXES WITH CITY OF MADISON TRAFFIC ENGINEERING FOR INSTALLATION OF LOOPS PRIOR TO INSTALLATION OF PAVEMENT MARKING.



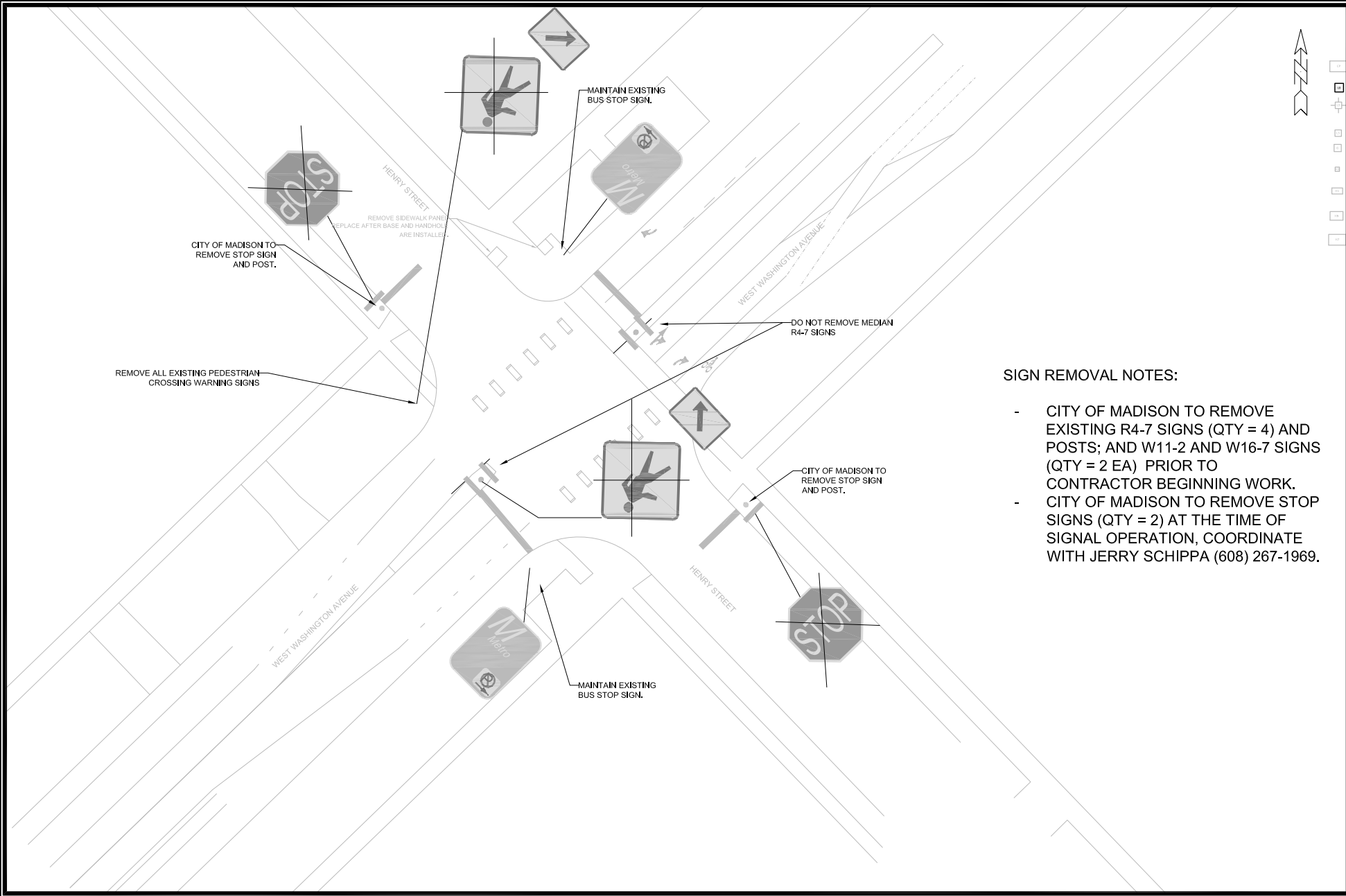
- (A) 60802 PAVEMENT MARKING EPOXY, LINE, 6-INCH
- (B) 60814 PAVEMENT MARKING EPOXY, CROSSWALK, 12-INCH
- (C) 60816 PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK
- (D) 60818 PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
- (E) 60829 PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
- (F) 60827 PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE AND LEFT ARROW
- (G) 60830 PAVEMENT MARKING EPOXY, SYMBOL, RIGHT ARROW
- (H) 60822 PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW

DATE	BY
REVISION	
DATE	BY
PROJECT	13480
DATE	3/2/2022
BY	J.M.
SCALE	1"=10'
TITLE	PM-2

PROJECT NO.	13480
CITY	MADISON, WI
CONTRACT NO.	8655
PROJECT NAME	PAVEMENT MARKING
PROJECT ADDRESS	HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL
DESIGNER	M:DESIGN PROJECTS

CITY OF MADISON

 13480
 PM-2



SIGN REMOVAL NOTES:

- CITY OF MADISON TO REMOVE EXISTING R4-7 SIGNS (QTY = 4) AND POSTS; AND W11-2 AND W16-7 SIGNS (QTY = 2 EA) PRIOR TO CONTRACTOR BEGINNING WORK.
- CITY OF MADISON TO REMOVE STOP SIGNS (QTY = 2) AT THE TIME OF SIGNAL OPERATION, COORDINATE WITH JERRY SCHIPPA (608) 267-1969.

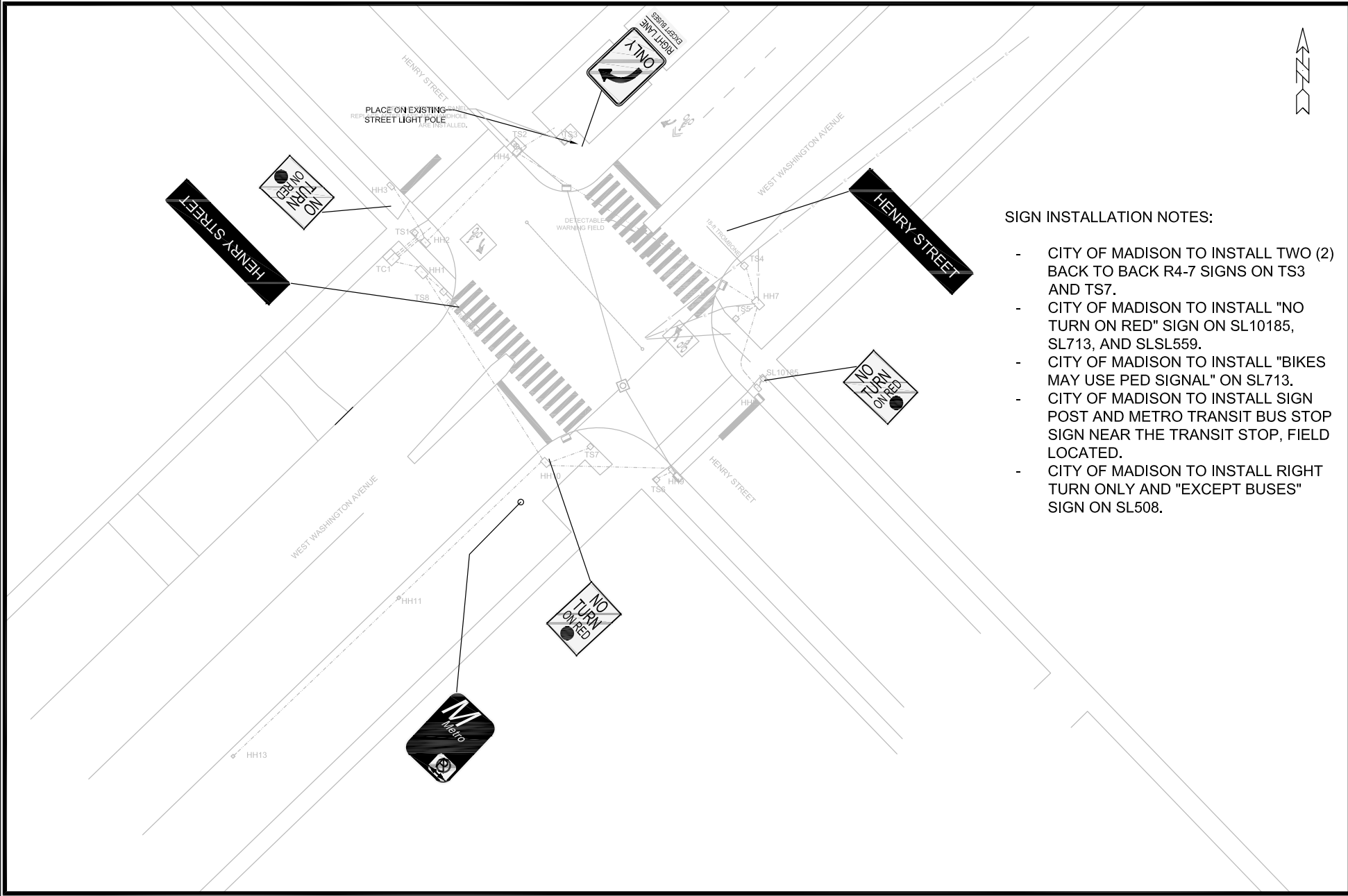
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13480
 MADISON, WI
 CONTRACT NO: 8655

SIGNS - REMOVALS
 HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL
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13480
 S-1



SIGN INSTALLATION NOTES:

- CITY OF MADISON TO INSTALL TWO (2) BACK TO BACK R4-7 SIGNS ON TS3 AND TS7.
- CITY OF MADISON TO INSTALL "NO TURN ON RED" SIGN ON SL10185, SL713, AND SL508.
- CITY OF MADISON TO INSTALL "BIKES MAY USE PED SIGNAL" ON SL713.
- CITY OF MADISON TO INSTALL SIGN POST AND METRO TRANSIT BUS STOP SIGN NEAR THE TRANSIT STOP, FIELD LOCATED.
- CITY OF MADISON TO INSTALL RIGHT TURN ONLY AND "EXCEPT BUSES" SIGN ON SL508.



	SIGNS - INSTALLATION 13480 HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL M:\DESIGN\Projects\13480\CAD\13480_TE_REDUCED SCOPE DESIGN.dwg	13480 MADISON, WI CONTRACT NO: 8655	S-2
	DATE: 11/11/11 REVISION: 11/11/11 MARK: 11/11/11 DATE: 11/11/11 REVISION: 11/11/11 MARK: 11/11/11 DATE: 11/11/11 REVISION: 11/11/11 MARK: 11/11/11	13480 S-2	S-2