

INDEX OF SHEETS

SHEET NO. 1 TITLE

SHEET NO. CE-1 **CURBWORK** SHEET NO. E1-E8

SHEET NO. PM1-PM2 PAVEMENT MARKING PLAN

ELECTRICAL PLANS

SHEET NO. S1-S2 SIGNING PLAN

NO MAINTENANCE PLAN WITH THIS PROJECT

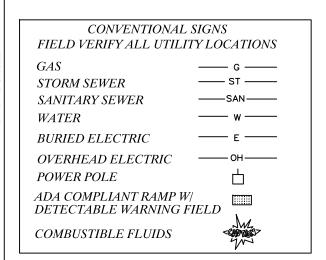
CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

HENRY STREET & WEST WASHINGTON AVENUE TRAFFIC **SIGNAL**

> CITY PROJECT NO. 13480 CONTRACT NO. 8647

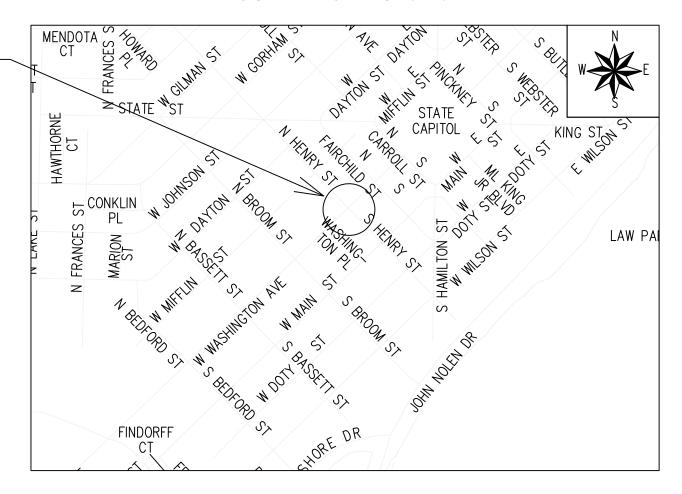
PROJECT LOCATION



NOTES:

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

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAPMS 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 WHERRE STREET GRADES EXCEED 5.00%.



PUBLIC IMPROVEMENT PROJECT

MARCH 29, 2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

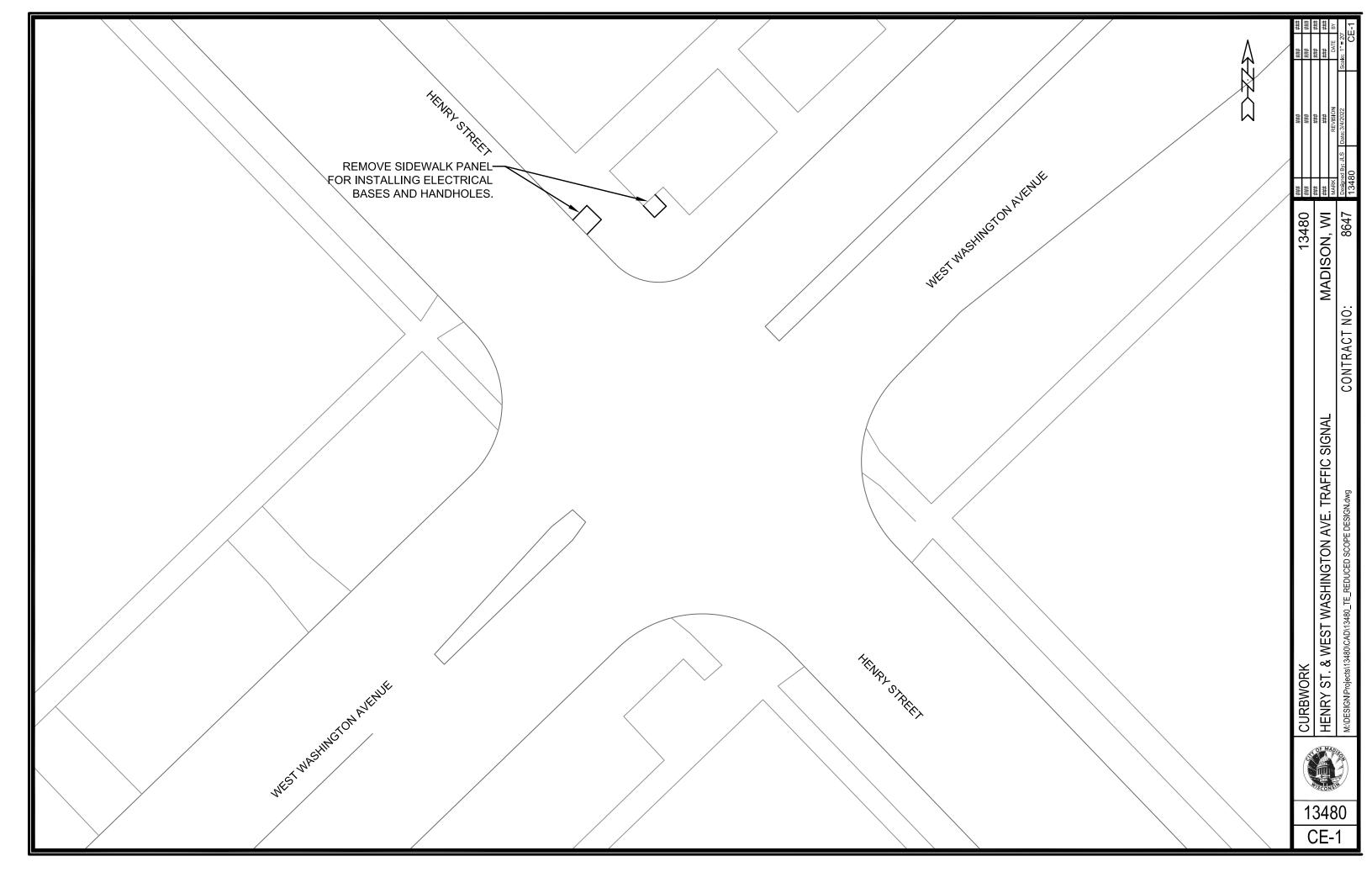
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer

Date

ELECTRICAL DESIGNED BY:

GEOMETRICS & PAVEMENT MARKINGS DESIGNED BY:



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.



- THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2022 EDITION" AND ALL ADDENDUMS THERETO.
- 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.
- ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
- PER STANDARD SPECIFICATION, RESTORING TERRACES DUE TO CONDUIT INSTALLATION IS INCIDENTAL TO CONSTRUCTION. RESTORING LANDSCAPED MEDIAN IS COVERED UNDER SPECIAL PROVISION.
- EXISTING STREET LIGHTS SHALL BE IN SERVICE EVERY NIGHT.
- 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.
- $(32)^{\frac{3}{4}}$ " BY 19" ANCHOR BOLTS FOR TYPE G BASES (6 TOTAL). 8.1.
- (4) 1" BY 40" ANCHOR BOLTS FOR LB-3 BASES (1 TOTAL). 8.2.

60403 TYPE LB-3 BASE

60403 TYPE LB-3 BASE

60704 TYPE III HANDHOLE

60702 TYPE II HANDHOLE

60706 TYPE V HANDHOLE

60708 TYPE VII HANDHOLE

WITH STREETLIGHT

60411 TYPE G BASE

L3

G

НЗ

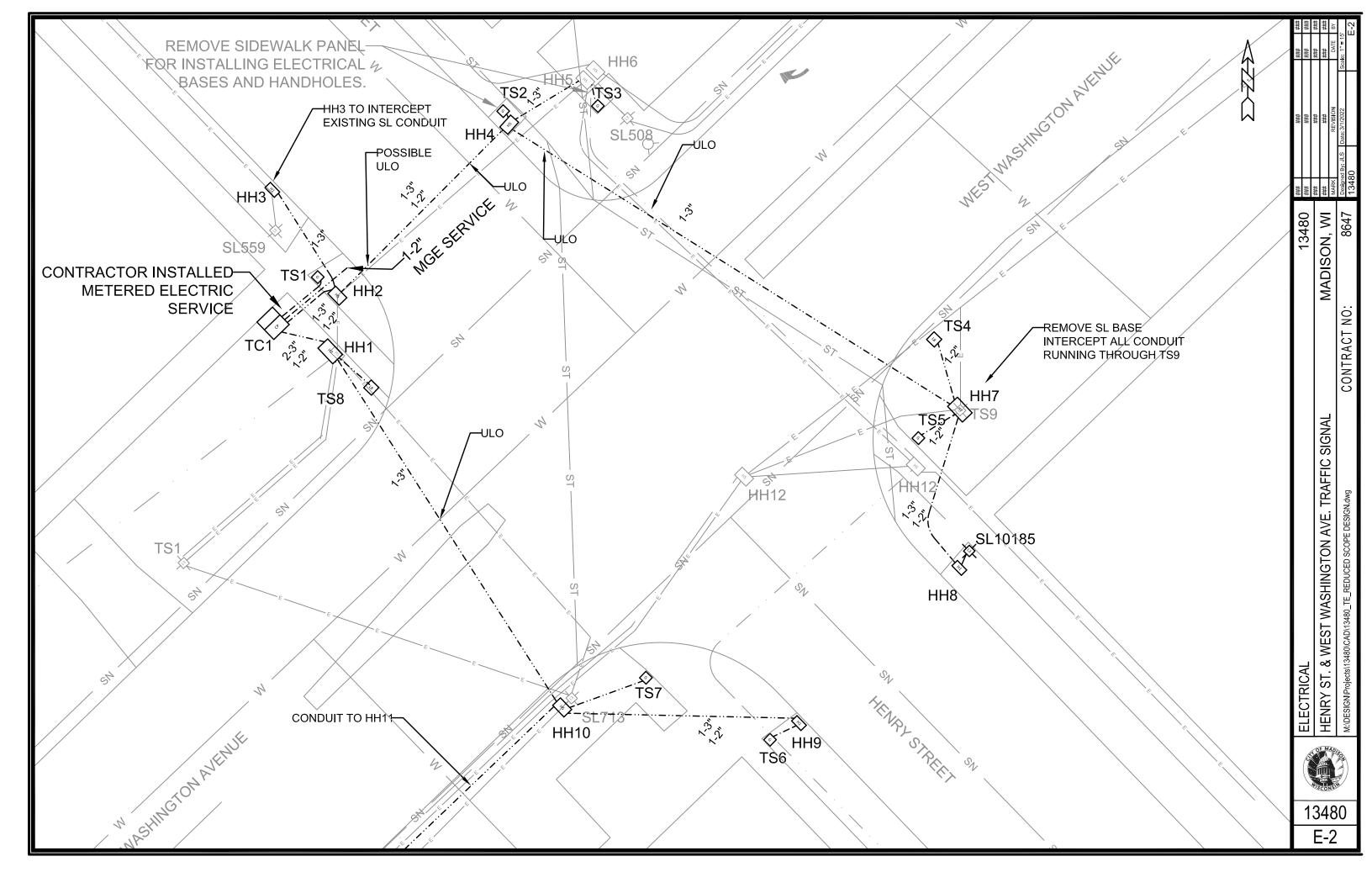
H1

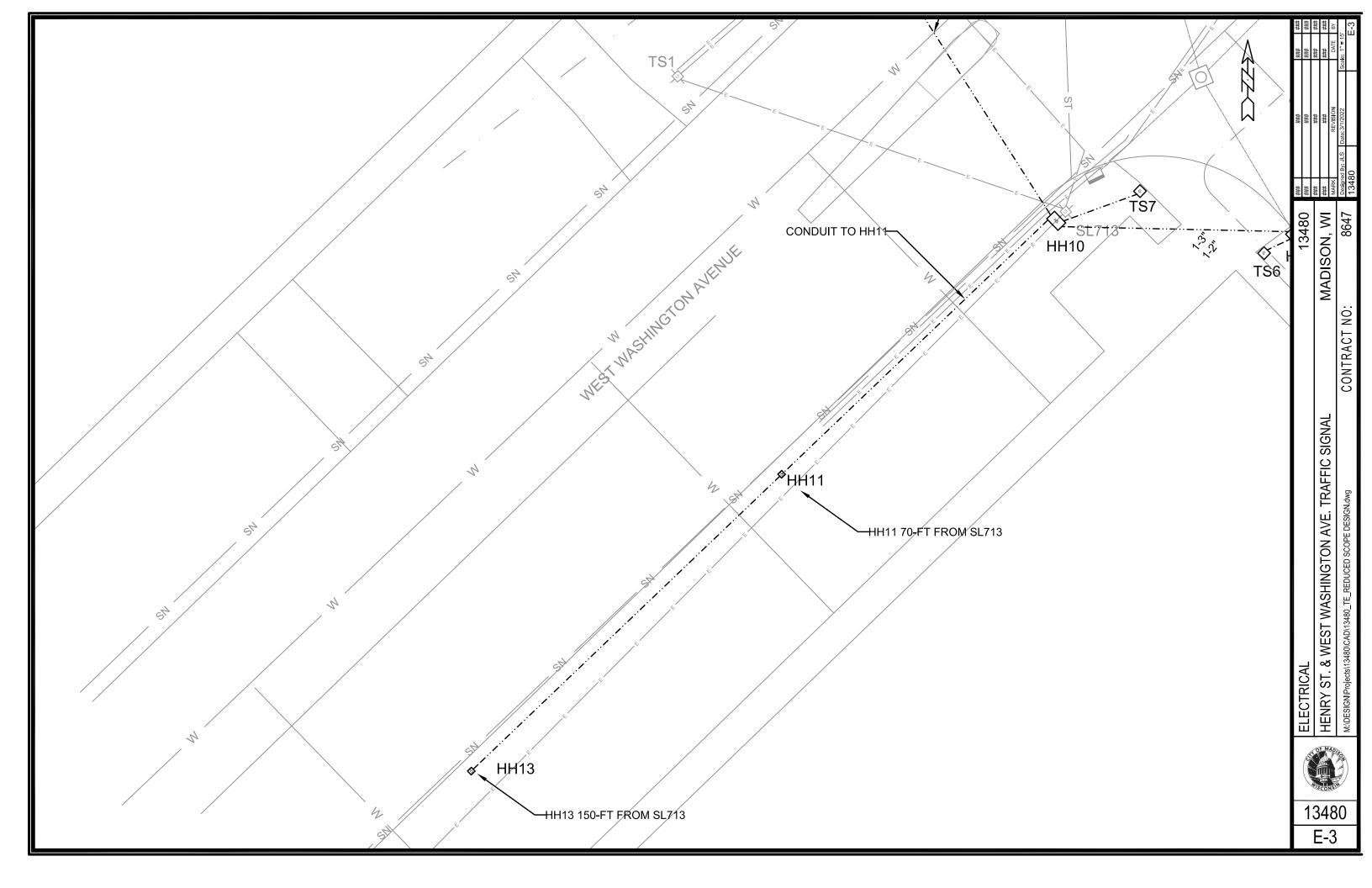
8.3. (8) $1\frac{1}{4}$ " BY 48" ANCHOR BOLTS FOR LB-8 BASES (2 TOTAL)

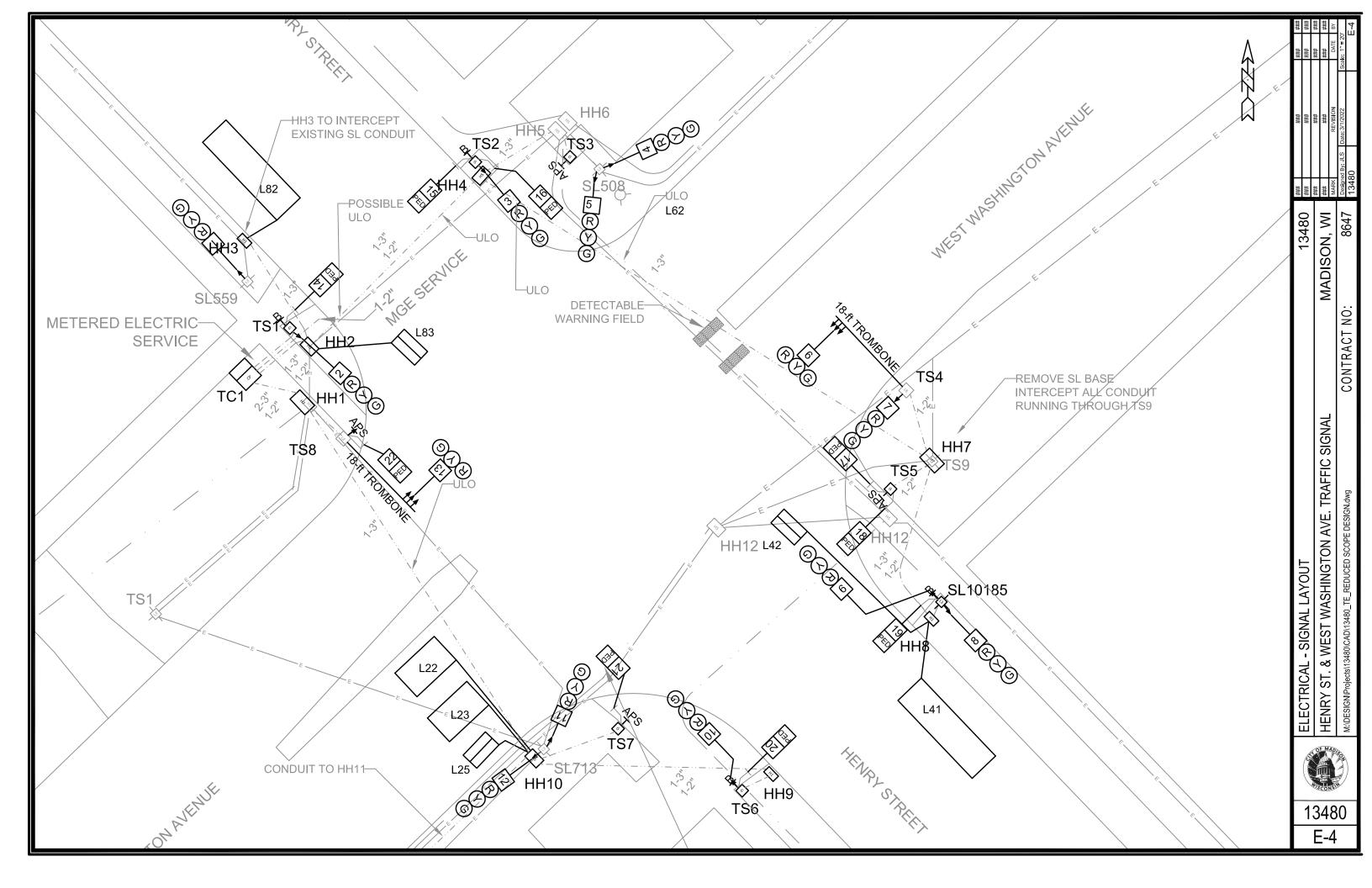
СР	60413 TYPE P BASE	 2-INCH PVC CONDUIT SCHEDULE 40, UNLESS NOTED ON PLANS AND
L8	60407 TYPE LB-8 BASE	QUANTITIES.

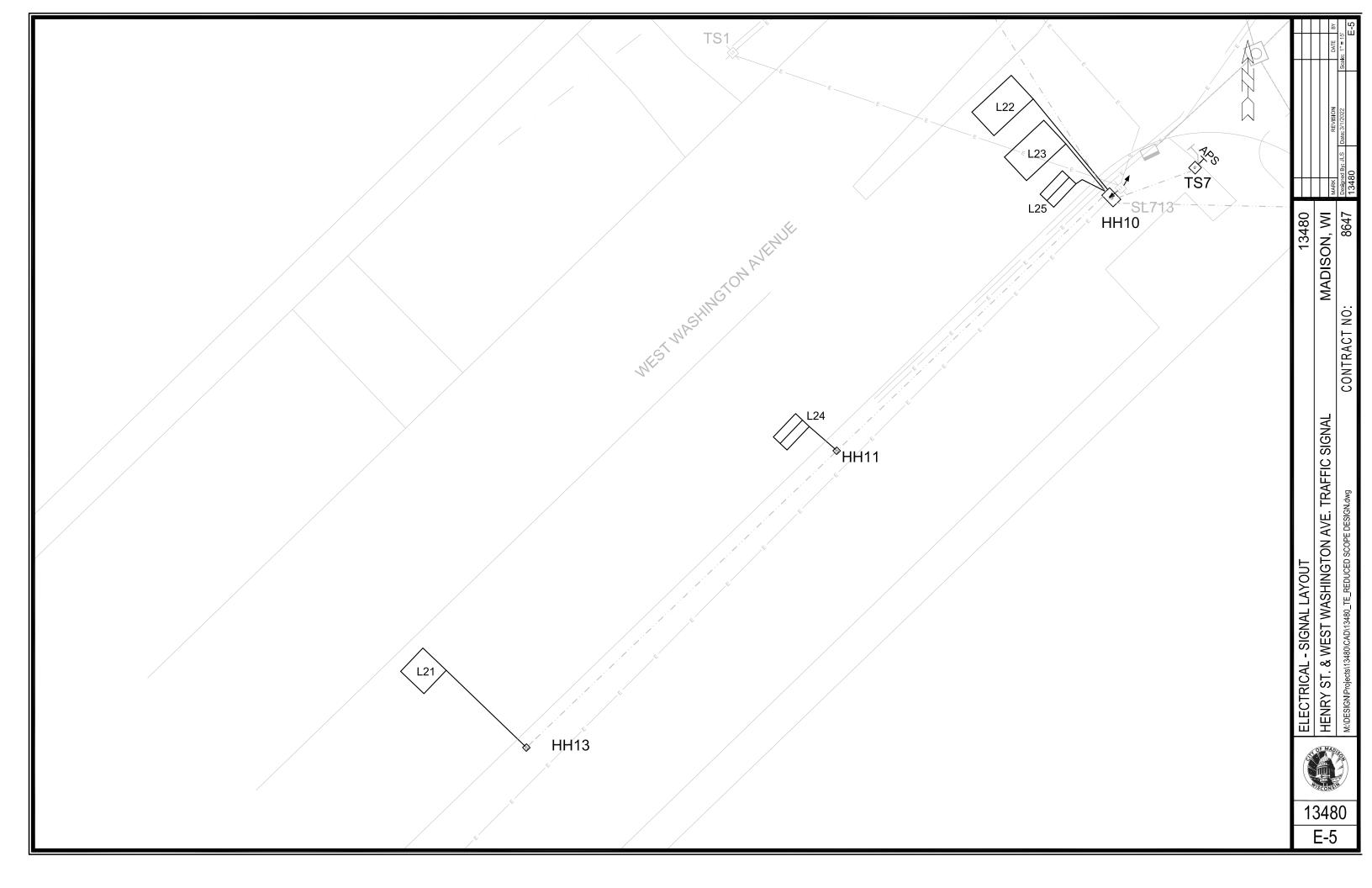
MADISON, WI CONTRACT NO WEST WASHINGTON AVE. TRAFFIC SIGNAL

HENRY









		CO	NSTRUCT B					
60403		60407	60409	60411	60413	60602	60421	
			OFFSET	TYPE G	TYPE P	METERED	REMOVE	
STRUCTURE	LB-3	LB-8	BASE	BASE	BASE	ELECTRIC	STREET LIGHT	
			D/ (OL	DAGE	D/ (3E	SERVICE	BASE	
	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	NOTES
TC1	-	-	-	-	1	1	-	
TS1	-	-	-	1	-	-	-	
SL559	-	-	-	-	-	-	-	MAINTAIN EX. SL
TS2	-	-	-	1	-	-	-	
SL508	-	-	_	-	-	-	-	MAINTAIN EX. SL
TS3	-	-	-	1	-	-	-	
TS4	-	1	-	-	-	-	-	
TS5	-	-	-	1	-	-	-	
SL10185	1	-	-	-	-	-	-	
TS6	-	-	-	1	-	-	-	
SL713	-	-	-	-	-	-	-	MAINTAIN EX. SL
TS7	-	-	-	1	-	-	-	
TS8	-	1	-	-	-	-	-	
TS9	-	-	-	-	-	-	1	REPLACE WITH HH
TOTAL	1	2	0	6	1	1	1	

	CONST	RUCT ELEC				
		HANDHOLI			REMOVAL	
	60702	60704	60706	60708	60427	
STRUCTURE	TYPEI	TYPE III	TYPE V	TYPE VII	REMOVE ELECTRICAL HANDHOLE	
	(EA)	(EA)	(EA)	(EA)	(EA)	NOTES
HH1	-	-	-	1	1	REMOVE AND REPLACE EX. HH
HH2	-	-	1	-	-	
HH3	1	-	-	-	-	INTERCEPT SL CONDUIT
HH4	-	-	1	-	-	
HH5	-	-	-	-	-	MAINTAIN EX. HH
HH6	-	-	-	-	-	MAINTAIN EX. HH
HH7	-	-	-	1	-	
HH8	1	-	-	-	-	REPLAES TS9 EX
HH9	1	-	-	-	-	
HH10	-	-	1	-	-	
HH11	-	1	-	-	-	
HH12	-	-	-	-	-	MAINTAIN EX. HH
HH13	-	1	-	-	-	
TOTAL	3	2	3	2	1	



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ECIRICAL - MISC. QI ✓	13480		
FNRY ST & WEST WASHINGTON AVE TRAFFIC SIGNAL	M NOSIGAM		
)		MARK	REV
		Designed B	Designed By JLS Date 3/1/
DESIGNIPTOJECIST 34801CAD/13480_ I E_KEDUCED SCOPE DESIGN. awg	CONTRACT NO. 004/	13480	



		T						
				JRNISH & INSTA				
		60222	60224	60230	60232	60241	60261	
FROM STRUCTURE	TO STRUCTURE	3 INCH PVC (SCHEDULE 80)	3 INCH PVC (SCHEDULE 40)	2 INCH PVC (SCHEDULE 80)	2 INCH PVC (SCHEDULE 40)	GOPHER RACEWAY FOR ELECTRICAL CONDUIT OR C.I.D.	ELECTRICAL TRENCH	
		(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	NOTES
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	НН3	-	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	

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F M	HENRY ST & WEST WASHINGTON AVE TRAFFIC SIGNAL	MAD	MADISON WI		
AD)	,		., .,	MARK	REVISION
is.		CN TOVOTION	0617	Designed By: JLS Date: 3/1/2022	Date: 3/1/2022
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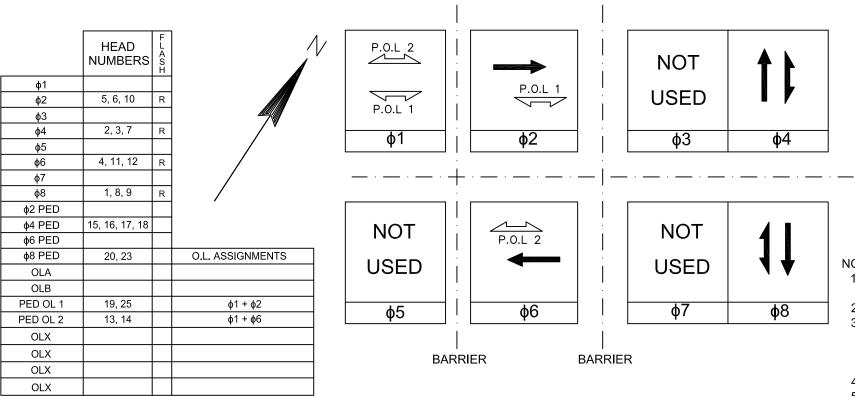
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							,	
			FU	RNISH & INSTA	ALL			
		SPV90001	SPV90002	SPV90003	SPV90004	SPV90005	60253	
FROM STRUCTURE	TO STRUCTURE	CABLE TRAFFIC	CABLE TRAFFIC SIGNAL 7-14	CABLE TRAFFIC	CABLE TRAFFIC SIGNAL 12-	LOOP DETECTOR LEAD IN	FURNISH & INSTALL 3 #4 AND 1 #8	
		JIGNAL 3-14	SIGNAL 7-14	31GNAL 3-14	14	WIRE	WIRES	
		(LF)	(LF)	(LF)	(LF)	(LF)	(L.F.)	NOTES
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	

13480 MADISON, WI : 8647 CONTRACT NO: ELECTRICAL - MISC. QTY
HENRY ST. & WEST WASHINGTON AVE. TRAFFIC SIGNAL
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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

1 1						
		PHASE ACTIVE	PHASE RECALL	DUAL ENTRY W/ф	PHASE LOCKING	PHASE NUMBER
!	!	Х				1
		Х		Х	Х	2
						3
Ш		Х		Х	Х	4
<u> i </u>	i					5
	Γ	Х		Х	Х	6
3480						7
135	Š	Х		Х	Х	8
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NOTES:

- 1. APS BUTTONS FOR ALL CROSSINGS OF WEST WASH. (5 BUTTONS TOTAL)
- 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.
- EMERGENCY RED-RED FLASH ONLY.
- PHASE 6 DETECTORS TO USE VIDEO DETECTION

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

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

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

TYPE OF REMOTE COMMUNICATI	ON
NONE	
FIBER	>
CELL MODEM	
PHONE	

DETECTOR LOGIC

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

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

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

								_
20	18	24	22	28	26	32	30	DETECTOR INPUT
								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



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OF MADISON, WI

CITY RACT

& WEST WASHINGTON TRAFFIC SIGNAL

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