Madison, Wisconsin

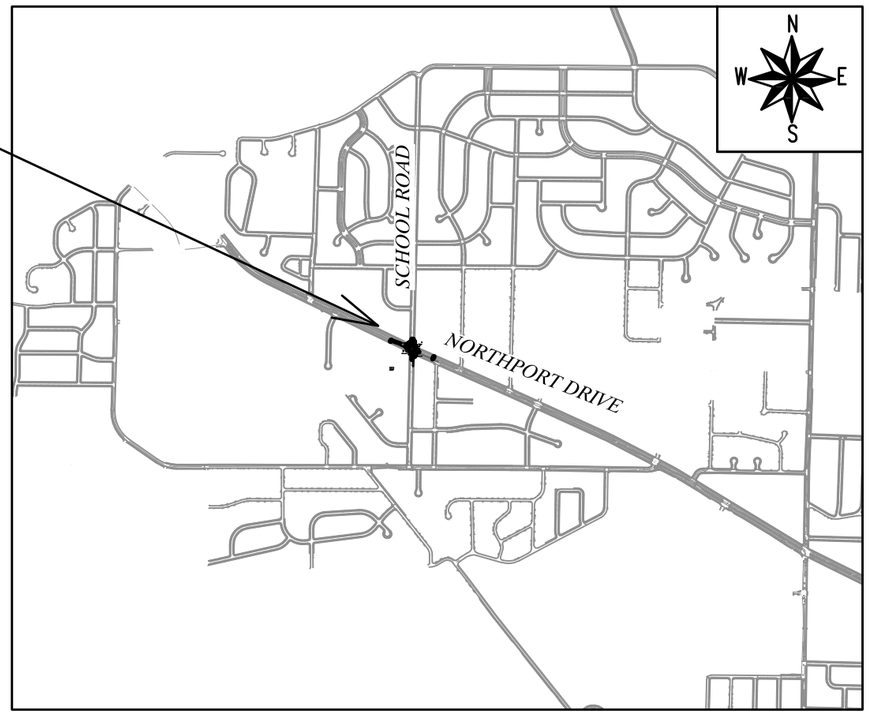
CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

ABERG AVENUE & NB PACKERS AVENUE RAMP TRAFFIC SIGNAL

CITY PROJECT NO. 14439
CONTRACT NO. ####

INDEX OF SHEETS

PROJECT LOCATION



CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

- GAS — G —
- STORM SEWER — ST —
- SANITARY SEWER — SN —
- 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 SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. 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

APPROVED DATE

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

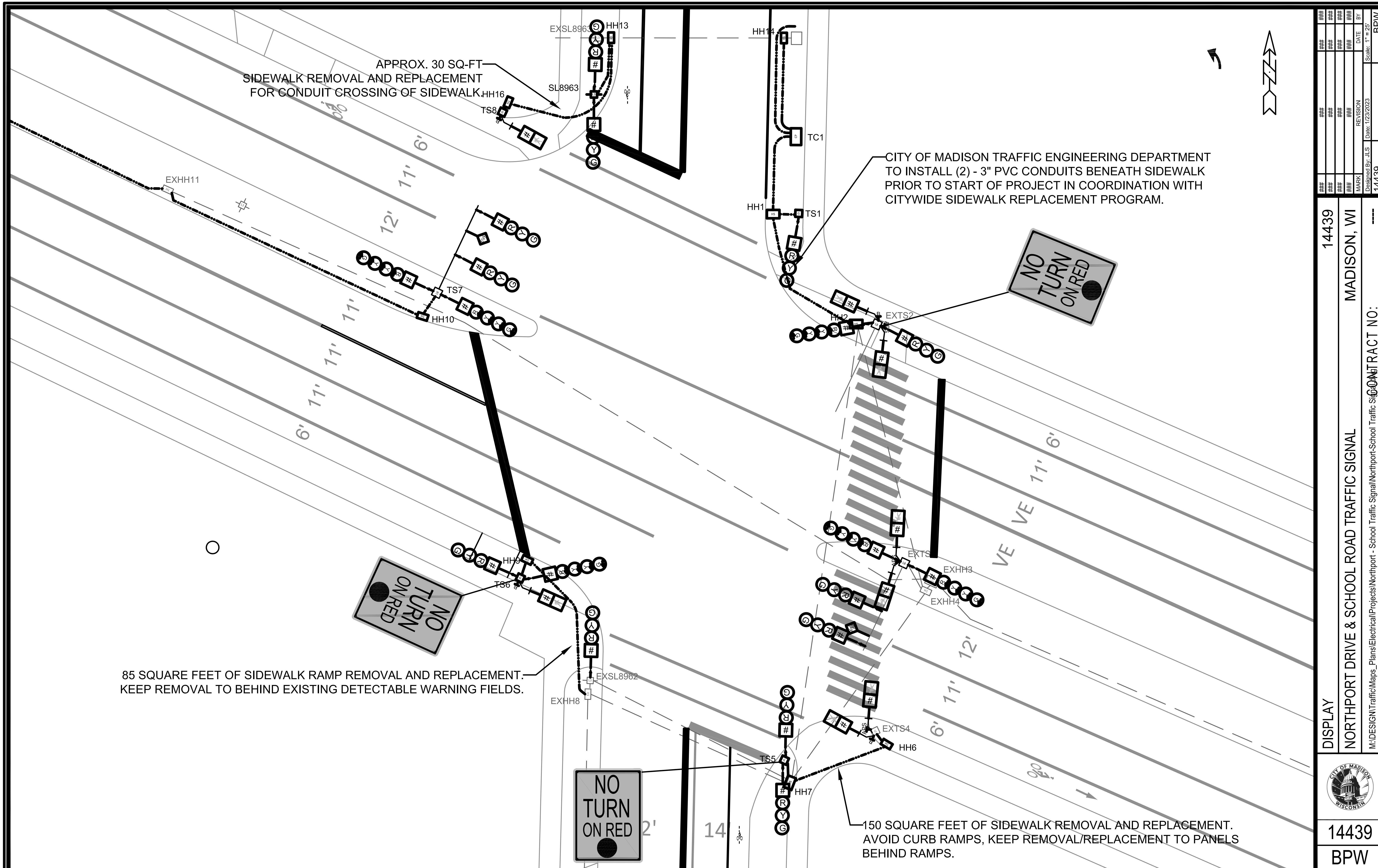
City Engineer — Date

STREET DESIGNED BY:

ELECTRICAL DESIGNED BY:

PLOT SCALE: 1" = 1'
PLOT NAME: —
REV. DATE: 12/21/2022 3:40 PM
ORIGINATOR: CITY_OF_MADISON

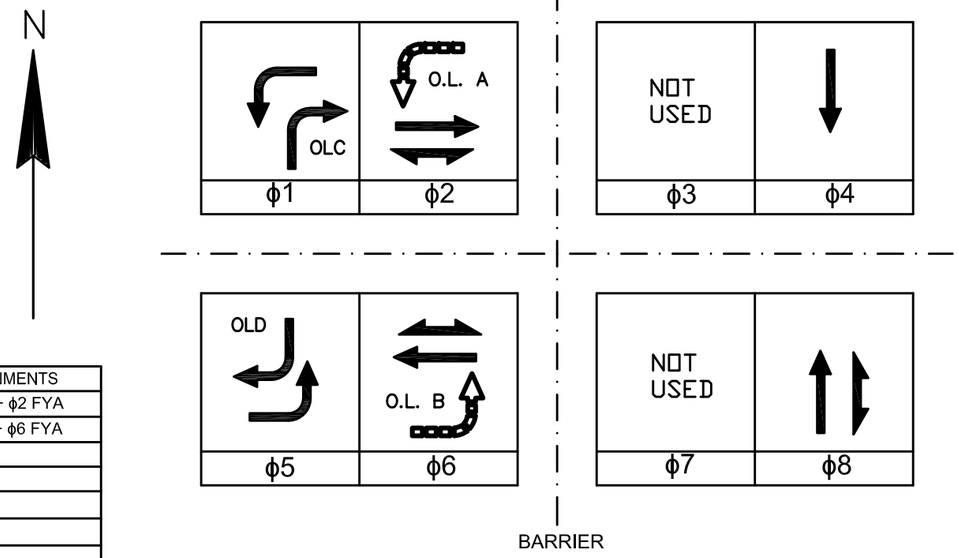
FILE NAME: M:\DESIGN\Traffic\Maps_Plans\Electrical\Projects\Northport - School Traffic Signal\Northport-School Traffic Signal.dwg
DATE: 1/23/2023 3:25 PM



APPROX. 30 SQ-FT SIDEWALK REMOVAL AND REPLACEMENT FOR CONDUIT CROSSING OF SIDEWALK.
CITY OF MADISON TRAFFIC ENGINEERING DEPARTMENT TO INSTALL (2) - 3" PVC CONDUITS BENEATH SIDEWALK PRIOR TO START OF PROJECT IN COORDINATION WITH CITYWIDE SIDEWALK REPLACEMENT PROGRAM.
85 SQUARE FEET OF SIDEWALK RAMP REMOVAL AND REPLACEMENT. KEEP REMOVAL TO BEHIND EXISTING DETECTABLE WARNING FIELDS.
150 SQUARE FEET OF SIDEWALK REMOVAL AND REPLACEMENT. AVOID CURB RAMPS, KEEP REMOVAL/REPLACEMENT TO PANELS BEHIND RAMPS.
NO TURN ON RED
NO TURN ON RED
NO TURN ON RED
HH13
HH14
SL8963
HH16
TS8
TC1
EXHH11
HH1
TS1
TS7
HH10
EXTS2
HH2
HH9
TS6
EXHH3
EXHH4
EXSL8962
EXHH8
EXTS4
HH6
TS5
HH7
6'
11'
12'
14'
DISPLAY
NORTHPORT DRIVE & SCHOOL ROAD TRAFFIC SIGNAL
MADISON, WI
14439
CONTRACT NO:
M:\DESIGN\TrafficMaps_Plans\Electrical\Projects\Northport - School Traffic Signal\Northport-School Traffic Signal.dwg
MARK
REVISION
DATE
BY
Designed By: JLS
Date: 1/23/2023
Scale: 1" = 25'
BPW
CITY OF MADISON WISCONSIN
14439
BPW

	HEAD NUMBERS	FLASH
ϕ1	---	R
ϕ2	4,5,6	R
ϕ3	---	
ϕ4	16,17,18	R
ϕ5	---	R
ϕ6	1,2,3	
ϕ7	---	
ϕ8	13,14,15	R
ϕ2 PED	25,26	
ϕ4 PED	---	
ϕ6 PED	19,20	
ϕ8 PED	21,22,23,24	

O.L. ASSIGNMENTS		
OLA	7,8,9	R ϕ1 PROT + ϕ2 FYA
OLB	10,11,12	R ϕ5 PROT + ϕ6 FYA
OLC	13,15	ϕ1
OLD	16,18	ϕ5



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

PED BUTTON INPUT:
PB1: BUTTONS CROSSING N LEG
PB2: BUTTONS CROSSING S LEG
PB3: NE CORNER
PB4: MEDIAN BUTTON
PB5: SE CORNER

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / ϕ	PHASE RECALL	PHASE ACTIVE
1				X
2	X	X	PED	X
3				
4	X	X	NONE	X
5				X
6	X	X	PED	X
7				
8	X	X	NONE	X

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
DETECTOR #(S)	52	12	64	62	24	22	26			81		42					DETECTOR #(S)
PHASE CALLED	5	1	6	6	2	2	2			8		4					PHASE CALLED
PHASE EXTENDED	5,6	1,2	6	6	2	2	2			8		4					PHASE EXTENDED
DISCONNECT TIME																	DISCONNECT TIME
CALLING DELAY																	CALLING DELAY
EXTENSION STRETCH			4.0	4.0	4.0	4.0	13.0										EXTENSION STRETCH
LOOP FUNCTION			ADD IN.	ADD IN.	ADD IN.	ADD IN.	BIKE										LOOP FUNCTION

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
DETECTOR #(S)	51	11	63	61	23	21	25	64		82	43	41					DETECTOR #(S)
PHASE CALLED	5	1	6	6	2	2	2	6		8	4	4					PHASE CALLED
PHASE EXTENDED	5,6	1,2	6	6	2	2	2	6		8	4	4					PHASE EXTENDED
DISCONNECT TIME																	DISCONNECT TIME
CALLING DELAY																	CALLING DELAY
EXTENSION STRETCH																	EXTENSION STRETCH
LOOP FUNCTION							BIKE	BIKE		BIKE	BIKE						LOOP FUNCTION

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	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION	
NONE	
FIBER	X
CELL MODEM	
PHONE	

MARK	REVISION	DATE	BY
#1	Designed By: --- Date: 12/21/2022	Scale: NO SCALE	---

14439

CITY OF MADISON, WI

CONTRACT NO: ---

SEQUENCE SHEET

NORTHPORT DRIVE & SCHOOL ROAD TRAFFIC SIGNAL

M:\DESIGN\Traffic\Maps_Plans\Electrical\Projects\Northport - School Traffic Signal\Northport-School Sequence.dgn

14439

SEQ-1