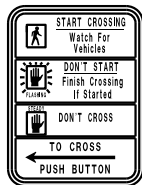


LEGEND

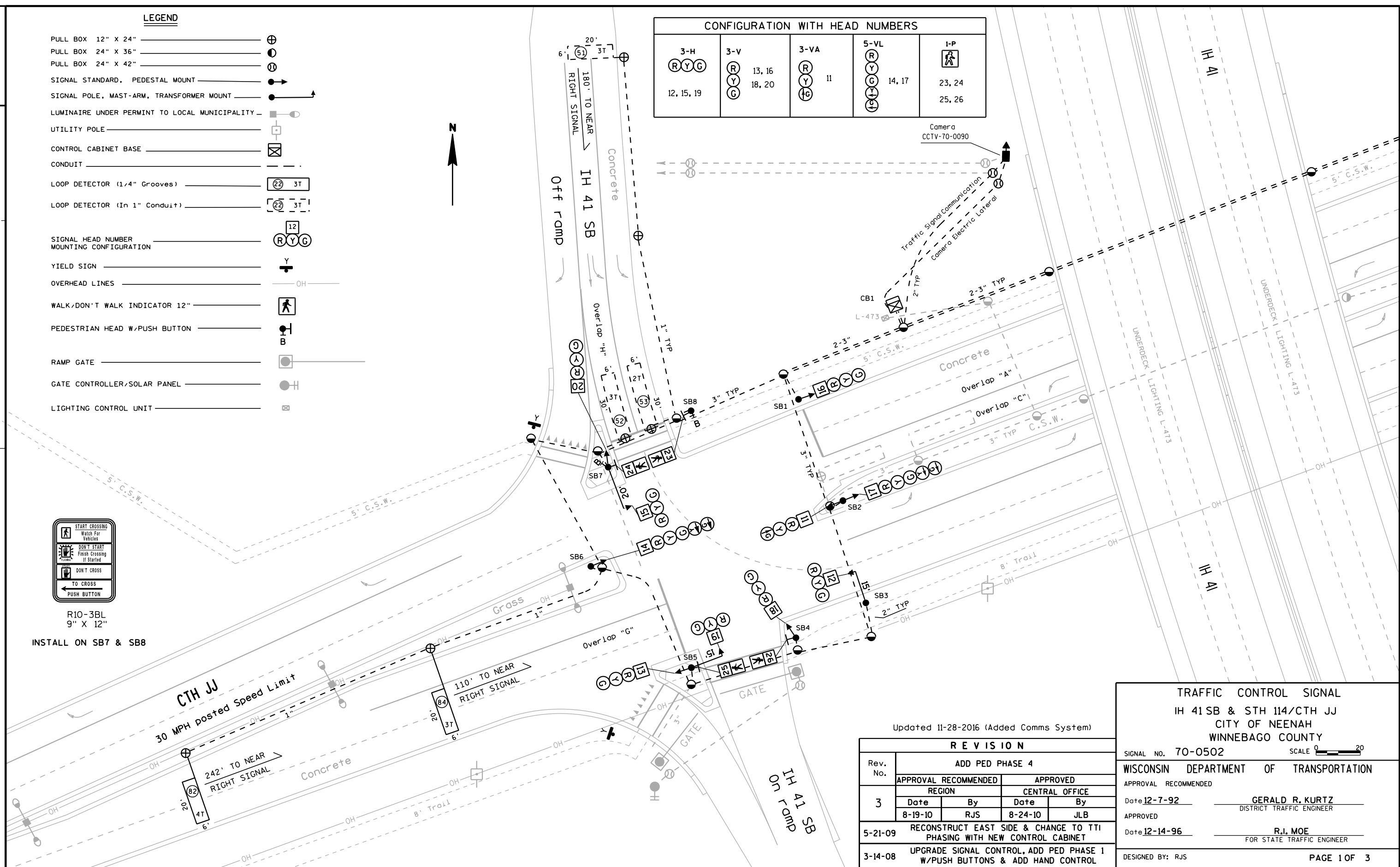
- PULL BOX 12" X 24"
- PULL BOX 24" X 36"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- UTILITY POLE
- CONTROL CABINET BASE
- CONDUIT
- LOOP DETECTOR (1/4" Grooves)
- LOOP DETECTOR (In 1" Conduit)
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
- YIELD SIGN
- OVERHEAD LINES
- WALK/DON'T WALK INDICATOR 12"
- PEDESTRIAN HEAD W/PUSH BUTTON
- RAMP GATE
- GATE CONTROLLER/SOLAR PANEL
- LIGHTING CONTROL UNIT



R10-3BL
9" X 12"

INSTALL ON SB7 & SB8

CONFIGURATION WITH HEAD NUMBERS				
3-H 	3-V 	3-VA 	5-VL 	1-P
12, 15, 19	13, 16 18, 20	11	14, 17	23, 24 25, 26



Updated 11-28-2016 (Added Comms System)

REVISION			
Rev. No.	ADD PED PHASE 4		
3	APPROVAL RECOMMENDED		APPROVED
	REGION		CENTRAL OFFICE
	Date	By	Date By
5-21-09	8-19-10	RJS	8-24-10 JLB
RECONSTRUCT EAST SIDE & CHANGE TO TTI PHASING WITH NEW CONTROL CABINET			
UPGRADE SIGNAL CONTROL, ADD PED PHASE 1 W/PUSH BUTTONS & ADD HAND CONTROL			

TRAFFIC CONTROL SIGNAL
IH 41 SB & STH 114/CTH JJ
CITY OF NEENAH
WINNEBAGO COUNTY

SIGNAL NO. 70-0502 SCALE 0 20

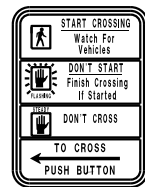
WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 12-7-92 GERALD R. KURTZ
DISTRICT TRAFFIC ENGINEER

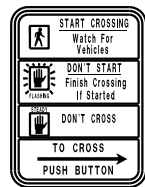
APPROVED
Date 12-14-96 R.L. MOE
FOR STATE TRAFFIC ENGINEER

DESIGNED BY: RJS PAGE 1 OF 3

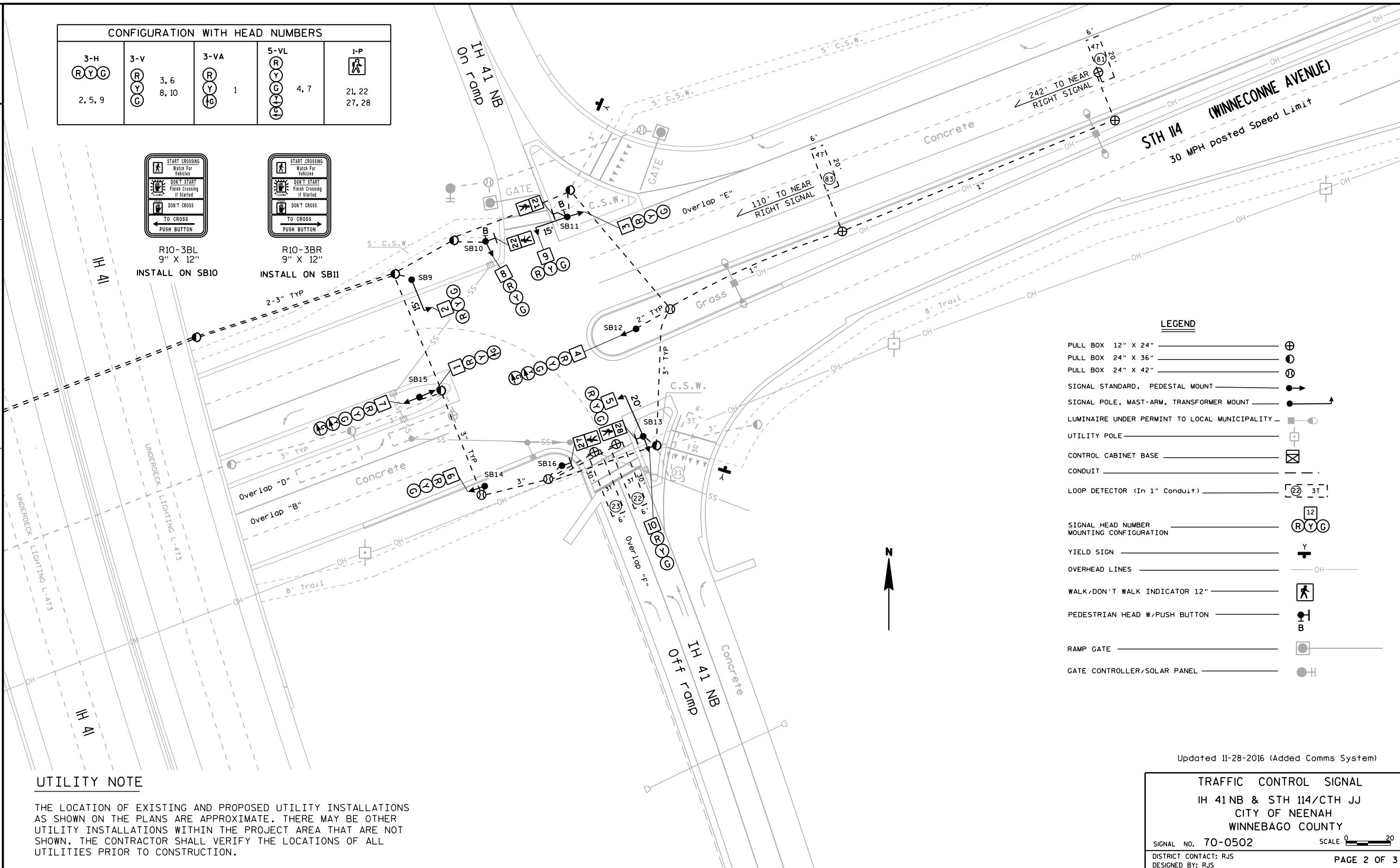
CONFIGURATION WITH HEAD NUMBERS				
3-H  2, 5, 9	3-V  3, 6 8, 10	3-VA  1	5-VL  4, 7	1-P  21, 22 27, 28



R10-3BL
9' X 12'
INSTALL ON SB10



R10-3BR
9' X 12'
INSTALL ON SB11



UTILITY NOTE

THE LOCATION 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. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

LEGEND

PULL BOX 12" X 24"	
PULL BOX 24" X 36"	
PULL BOX 24" X 42"	
SIGNAL STANDARD, PEDESTAL MOUNT	
SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT	
LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY	
UTILITY POLE	
CONTROL CABINET BASE	
CONDUIT	
LOOP DETECTOR (In 1" Conduit)	
SIGNAL HEAD NUMBER MOUNTING CONFIGURATION	
YIELD SIGN	
OVERHEAD LINES	
WALK/DON'T WALK INDICATOR 12"	
PEDESTRIAN HEAD W/PUSH BUTTON	
RAMP GATE	
GATE CONTROLLER/SOLAR PANEL	

Updated 11-28-2016 (Added Comms System)

TRAFFIC CONTROL SIGNAL
IH 41NB & STH 114/CTH JJ
CITY OF NEENAH
WINNEBAGO COUNTY

SIGNAL NO. 70-0502

SCALE 0 20

DISTRICT CONTACT: RJS
DESIGNED BY: RJS

PAGE 2 OF 3

SEQUENCE OF OPERATION

																										NOT USED							
		Ø1				Ø2				Ø3				Ø4				Ø5				Ø6				Ø7				Ø8			
		CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO			
		R/W	**	*		R/W	**	*		R/W	**	*		R/W	**	*		R/W	**	*		R/W	**	*		R/W	**	*		R/W	**	*	
OL *A*	14, 15, 16, 17	G	Y	R		G	Y	R		G	Y	R		G	Y	R		R	R	R		R	R	R									
OL *B*	4, 5, 6, 7	G	Y	R		R	R	R		R	R	R		G	Y	R		G	Y	R		G	Y	R		G	Y	R		G	Y	R	
OL *C*	14, 17	G	Y	-		G	Y	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
OL *D*	4, 7	-	-	-		-	-	-		-	-	-		G	Y	-		G	Y	-		-	-	-		-	-	-		-	-	-	
OL *E*	1, 2, 3	G	Y	R		R	R	R		R	R	R		R	R	R		R	R	R		G	Y	R		G	Y	R		R	R	R	
OL *F*	8, 9, 10	R	R	R		G	Y	R		G	Y	R		R	R	R		R	R	R		R	R	R		R	R	R		R	R	R	
OL *G*	11, 12, 13	R	R	R		R	R	R		G	Y	R		G	Y	R		R	R	R		R	R	R		R	R	R		G	Y	R	
OL *H*	18, 19, 20	R	R	R		R	R	R		R	R	R		R	R	R		G	Y	R		G	Y	R		R	R	R		R	R	R	
Ø1 Ped	21, 22, 23, 24	*	D	D		D	D	D		D	D	D		D	D	D		D	D	D		D	D	D					*	D	D		
Ø4 Ped	25, 26, 27, 28	D	D	D		D	D	D		D	D	D		*	D	D		D	D	D		D	D	D					*	D	D		

FLASH

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL DAY	PHASE RECALL NIGHT	PHASE ACTIVE
1			COORD		YES
2			MAX		YES
3			MAX		YES
4			COORD		YES
5			MAX		YES
6			MAX		YES
7					
8				MIN/PED	YES

OVERLAPS

O.L. "A" = 1, 2, 3, 4, 8
O.L. "B" = 1, 4, 5, 6, 8
O.L. "C" = 1, 2
O.L. "D" = 4, 5
O.L. "E" = 1, 6, 8
O.L. "F" = 2, 3
O.L. "G" = 3, 4, 8
O.L. "H" = 5, 6

- ** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)
- * WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.
- D = DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	NONE	2,3,4,5,6,8
Ø2	NONE	1,3,4,5,6,8
Ø3	NONE	1,2,4,5,6,8
Ø4	NONE	1,2,3,5,6,8
Ø5	NONE	1,2,3,4,6,8
Ø6	NONE	1,2,3,4,5,8
Ø7		
Ø8	NONE	1,2,3,4,5,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE (in feet)	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
21	1	X			2	2		X		6x30	3
22	2	X			2	2				6x30	3
23	3	X			2	2				6x30	3
51	4			X		5			X	6x20	3
52	5	X			5	5				6x30	3
53	6	X			5	5				6x30	2
81	7	X			8	8			X	6x20	4
82	8	X			8	8			X	6x20	4
83	9	X			8	8				6x20	4
84	10	X			8	8				6x20	3

TYPE OF INTERCONNECT/COMMUNICATION	
CELL MODEM	
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S70-xxxx
SIGNAL SYSTEM *:	SS-70-xxxx

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
3M	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE DOT LIGHTING CABINET	
UNDER DECK LIGHTING L-473	X

NOTES:

- ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED
- DAY - OMIT PHASE 8
NIGHT - OMIT PHASES 1, 3, 4 & 6
- PHASE 8 SHALL CALL PHASE 1PED & PHASE 4 PED.
- PROVIDE FOR HAND CONTROL

Updated 11-28-2016 (Added Comms System)

IH 41 & STH 114/CTH JJ
CITY OF NEENAH
WINNEBAGO COUNTY

SIGNAL NO. 70-0502

CABINET: TS1

CONTROLLER: EPAC

DATE: 8-24-2010

PAGE NO. 3 OF 3

PROJECT NO: 0083-03-01

HWY: IH 41

COUNTY: WINNEBAGO

SEQUENCE OF OPERATIONS S70-0502

SHEET

E