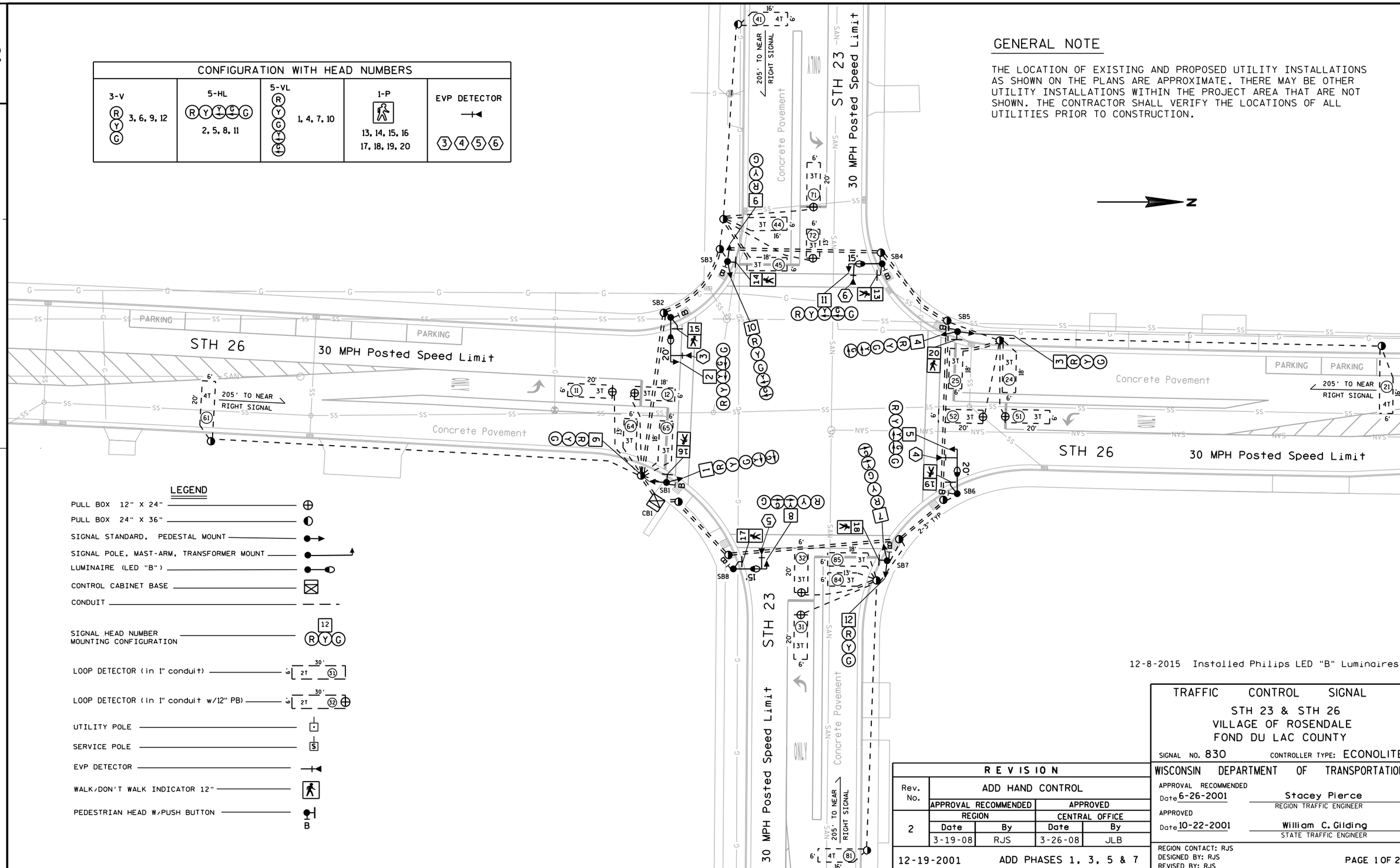
CONFIGURATION WITH HEAD NUMBERS				
3-V R Y G 3, 6, 9, 12	5-HL R Y Y G G 2, 5, 8, 11	5-VL R Y G Y G 1, 4, 7, 10	1-P 13, 14, 15, 16 17, 18, 19, 20	EVP DETECTOR 3 4 5 6

GENERAL 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"
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- LUMINAIRE (LED "B")
- CONTROL CABINET BASE
- CONDUIT
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION (12 R Y G)
- LOOP DETECTOR (in 1" conduit) (30' 2T 31)
- LOOP DETECTOR (in 1" conduit w/12" PB) (30' 2T 32)
- UTILITY POLE
- SERVICE POLE
- EVP DETECTOR
- WALK/DON'T WALK INDICATOR 12"
- PEDESTRIAN HEAD W/PUSH BUTTON (B)

12-8-2015 Installed Philips LED "B" Luminaires

TRAFFIC CONTROL SIGNAL
STH 23 & STH 26
VILLAGE OF ROSENDALE
FOND DU LAC COUNTY

SIGNAL NO. 830 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 6-26-2001 Stacey Pierce
REGION TRAFFIC ENGINEER

APPROVED
Date 10-22-2001 William C. Gilding
STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RJS

PAGE 1 OF 2

REVISION					
Rev. No.	ADD HAND CONTROL				
	APPROVAL RECOMMENDED		APPROVED		
	REGION		CENTRAL OFFICE		
	Date	By	Date	By	
2	3-19-08	RJS	3-26-08	JLB	
12-19-2001	ADD PHASES 1, 3, 5 & 7				

PROJECT NO: 0083-03-01	HWY: STH 23	COUNTY: FOND DU LAC	TRAFFIC CONTROL SIGNAL S-830	SHEET 2	E

SEQUENCE OF OPERATION

	HEAD NUMBERS	01 R/W	01 CLEAR TO **		02 R/W	02 CLEAR TO **		03 R/W	03 CLEAR TO **		04 R/W	04 CLEAR TO **		FLASH
RING 1 01	4, 5	G	Y	-	-	-	-	-	-	-	-	-	-	-
02	1, 2, 3	R	R	R	G	Y	R	R	R	R	R	R	R	R
03	10, 11	-	-	-	-	-	-	G	Y	-	-	-	-	-
04	7, 8, 9	R	R	R	R	R	R	R	R	R	G	Y	R	R
05	1, 2	-	-	-	-	-	-	-	-	-	-	-	-	-
06	4, 5, 6	R	R	R	R	R	R	R	R	R	R	R	R	R
07	7, 8	-	-	-	-	-	-	-	-	-	-	-	-	-
08	10, 11, 12	R	R	R	R	R	R	R	R	R	R	R	R	R
02P	13, 14	D	D	D	*	D	D	D	D	D	D	D	D	
04P	15, 16	D	D	D	D	D	D	D	D	D	*	D	D	
06P	17, 18	D	D	D	D	D	D	D	D	D	D	D	D	
08P	19, 20	D	D	D	D	D	D	D	D	D	D	D	D	

	HEAD NUMBERS	05 R/W	05 CLEAR TO **		06 R/W	06 CLEAR TO **		07 R/W	07 CLEAR TO **		08 R/W	08 CLEAR TO **	
RING 2 01	4, 5	-	-	-	-	-	-	-	-	-	-	-	-
02	1, 2, 3	R	R	R	R	R	R	R	R	R	R	R	R
03	10, 11	-	-	-	-	-	-	-	-	-	-	-	-
04	7, 8, 9	R	R	R	R	R	R	R	R	R	R	R	R
05	1, 2	G	Y	-	-	-	-	-	-	-	-	-	-
06	4, 5, 6	R	R	R	G	Y	R	R	R	R	R	R	R
07	7, 8	-	-	-	-	-	-	G	Y	-	-	-	-
08	10, 11, 12	R	R	R	R	R	R	R	R	R	G	Y	R
02P	13, 14	D	D	D	D	D	D	D	D	D	D	D	D
04P	15, 16	D	D	D	D	D	D	D	D	D	D	D	D
06P	17, 18	D	D	D	*	D	D	D	D	D	D	D	D
08P	19, 20	D	D	D	D	D	D	D	D	D	*	D	D

BARRIER

Z

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* 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
01	5 OR 6	2,3,4,7,8
02	5 OR 6	1,3,4,7,8
03	7 OR 8	1,2,4,5,6
04	7 OR 8	1,2,3,5,6
05	1 OR 2	3,4,6,7,8
06	1 OR 2	3,4,5,7,8
07	3 OR 4	1,2,5,6,8
08	3 OR 4	1,2,5,6,7

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR RACK CHANNEL	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE (feet)	NUMBER OF TURNS
11	3	X			Φ1	Φ1		X		6x20	3
12	4	X			Φ1	Φ1		X		6x18	3
21	1	X			Φ2	Φ2			X	6x16	4
24	7	X			Φ2	Φ2				6x18	3
25	8	X			Φ2	Φ2				6x18	3
31	5	X			Φ3	Φ3		X		6x20	3
32	6	X			Φ3	Φ3		X		6x20	3
41	11	X			Φ4	Φ4			X	6x16	4
44	9	X			Φ4	Φ4				6x16	3
45	10	X			Φ4	Φ4				6x18	3
51	19	X			Φ5	Φ5		X		6x20	3
52	20	X			Φ5	Φ5		X		6x20	3
61	17	X			Φ6	Φ6			X	6x20	4
64	23	X			Φ6	Φ6				6x13	3
65	24	X			Φ6	Φ6				6x18	3
71	21	X			Φ7	Φ7		X		6x20	3
72	22	X			Φ7	Φ7		X		6x13	3
81	27	X			Φ8	Φ8			X	6x16	4
84	25	X			Φ8	Φ8				6x13	3
85	26	X			Φ8	Φ8				6x18	3

CONTROLLER LOGIC

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

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS0000

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	

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

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

EMERGENCY VEHICLE PREEMPTION

EMERGENCY VEHICLE DETECTOR	3	4	5	6
MOVEMENT				
PHASE	2+5	1+6	4+7	3+8
3M CHANNEL	A	B	C	D

NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.
4. PROVIDE FOR HAND CONTROL
5. EMERGENCY VEHICLE PREEMPTION
   - -UPON PREEMPTION, THE SIGNAL SHALL CLEAR TO PHASES 2+5, 1+6, , 4+7 or 3+8..
   - -ANY GREEN/WALK INTERVAL IN EFFECT SHALL TIME A MINIMUM 5 SECOND DURATION BEFORE ENTERING THE PREEMPT SEQUENCE. ELAPSED GREEN TIME PRIOR TO THE PREEMPT CALL SHALL BE CONSIDERED THE MINIMUM TIME.
   - -ANY CLEARANCE INTERVAL IN EFFECT SHALL TIME ITS FULL NORMAL DURATION BEFORE ENTERING THE PREEMPT SEQUENCE.
   - -THE SIGNAL SHALL DWELL IN PHASES 2+5 or 1+6 or 4+7 or 3+8 DURING PREEMPTION.
   - -UPON TERMINATION OF PREEMPTION, VEHICLE CALLS SHALL BE PLACED IN ALL PHASES ACTIVE DURING NORMAL PHASE CYCLING.

Updated 12-8-2015

TRAFFIC CONTROL SIGNALS

STH 23 & STH 26
VILLAGE OF ROSENDALE
FOND DU LAC COUNTY

SIGNAL NO. 830

CONTOLLER TYPE: ECONOLITE

DATE: 3-26-2008 PAGE NO. 2 OF 2