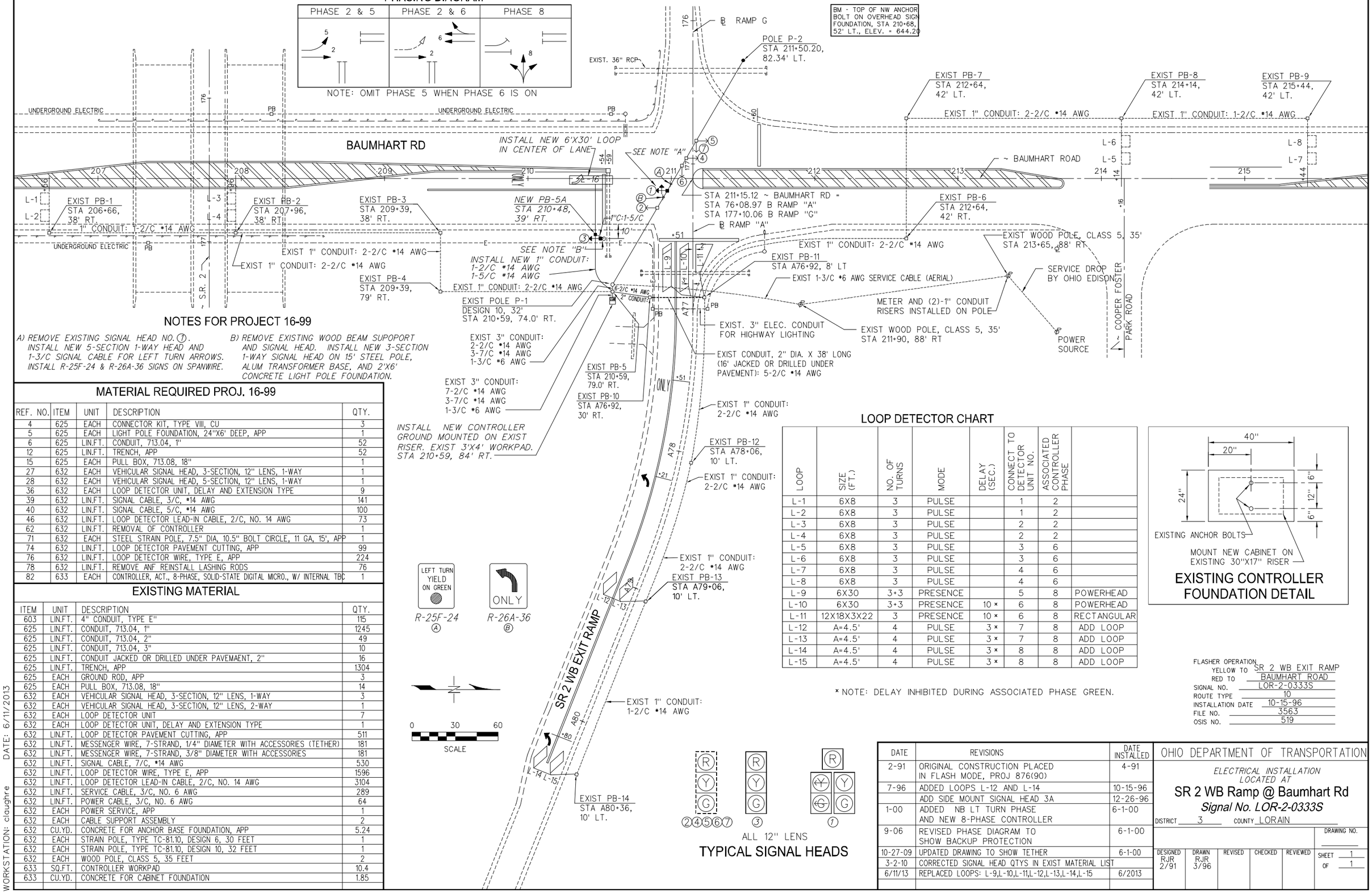
PHASING DIAGRAM

PHASE 2 & 5	PHASE 2 & 6	PHASE 8
5, 2	6, 2	8

NOTE: OMIT PHASE 5 WHEN PHASE 6 IS ON



TYPICAL SIGNAL HEADS

NOTES FOR PROJECT 16-99

A) REMOVE EXISTING SIGNAL HEAD NO. 1. INSTALL NEW 5-SECTION 1-WAY HEAD AND 1-3/C SIGNAL CABLE FOR LEFT TURN ARROWS. INSTALL R-25F-24 & R-26A-36 SIGNS ON SPANWIRE.

B) REMOVE EXISTING WOOD BEAM SUPOPORT AND SIGNAL HEAD. INSTALL NEW 3-SECTION 1-WAY SIGNAL HEAD ON 15' STEEL POLE, ALUM TRANSFORMER BASE, AND 2'X6' CONCRETE LIGHT POLE FOUNDATION.

MATERIAL REQUIRED PROJ. 16-99

REF. NO.	ITEM	UNIT	DESCRIPTION	QTY.
4	625	EACH	CONNECTOR KIT, TYPE VIII, CU	3
5	625	EACH	LIGHT POLE FOUNDATION, 24"X6' DEEP, APP	1
6	625	LIN.FT.	CONDUIT, 713.04, 1"	52
12	625	LIN.FT.	TRENCH, APP	52
15	625	EACH	PULL BOX, 713.08, 18"	1
27	632	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY	1
28	632	EACH	VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY	1
36	632	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE	9
39	632	LIN.FT.	SIGNAL CABLE, 3/C, #14 AWG	141
40	632	LIN.FT.	SIGNAL CABLE, 5/C, #14 AWG	100
46	632	LIN.FT.	LOOP DETECTOR LEAD-IN CABLE, 2/C, NO. 14 AWG	73
62	632	LIN.FT.	REMOVAL OF CONTROLLER	1
71	632	EACH	STEEL STRAIN POLE, 7.5" DIA, 10.5" BOLT CIRCLE, 11 GA, 15', APP	1
74	632	LIN.FT.	LOOP DETECTOR PAVEMENT CUTTING, APP	99
76	632	LIN.FT.	LOOP DETECTOR WIRE, TYPE E, APP	224
78	632	LIN.FT.	REMOVE ANF REINSTALL LASHING RODS	76
82	633	EACH	CONTROLLER, ACT., 8-PHASE, SOLID-STATE DIGITAL MICRO., W/ INTERNAL TBC	1

EXISTING MATERIAL

ITEM	UNIT	DESCRIPTION	QTY.
603	LIN.FT.	4" CONDUIT, TYPE E"	115
625	LIN.FT.	CONDUIT, 713.04, 1"	1245
625	LIN.FT.	CONDUIT, 713.04, 2"	49
625	LIN.FT.	CONDUIT, 713.04, 3"	10
625	LIN.FT.	CONDUIT JACKED OR DRILLED UNDER PAVEMAENT, 2"	16
625	LIN.FT.	TRENCH, APP	1304
625	EACH	GROUND ROD, APP	3
625	EACH	PULL BOX, 713.08, 18"	14
632	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY	3
632	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 2-WAY	1
632	EACH	LOOP DETECTOR UNIT	7
632	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE	1
632	LIN.FT.	LOOP DETECTOR PAVEMENT CUTTING, APP	511
632	LIN.FT.	MESSENGER WIRE, 7-STRAND, 1/4" DIAMETER WITH ACCESSORIES (TETHER)	181
632	LIN.FT.	MESSENGER WIRE, 7-STRAND, 3/8" DIAMETER WITH ACCESSORIES	181
632	LIN.FT.	SIGNAL CABLE, 7/C, #14 AWG	530
632	LIN.FT.	LOOP DETECTOR WIRE, TYPE E, APP	1596
632	LIN.FT.	LOOP DETECTOR LEAD-IN CABLE, 2/C, NO. 14 AWG	3104
632	LIN.FT.	SERVICE CABLE, 3/C, NO. 6 AWG	289
632	LIN.FT.	POWER CABLE, 3/C, NO. 6 AWG	64
632	EACH	POWER SERVICE, APP	1
632	EACH	CABLE SUPPORT ASSEMBLY	2
632	CU.YD.	CONCRETE FOR ANCHOR BASE FOUNDATION, APP	5.24
632	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 6, 30 FEET	1
632	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 10, 32 FEET	1
632	EACH	WOOD POLE, CLASS 5, 35 FEET	2
633	SQ.FT.	CONTROLLER WORKPAD	10.4
633	CU.YD.	CONCRETE FOR CABINET FOUNDATION	1.85

LOOP DETECTOR CHART

LOOP	SIZE (FT.)	NO. OF TURNS	MODE	DELAY (SEC.)	CONNECT TO DETECTOR UNIT NO.	ASSOCIATED CONTROLLER PHASE	
L-1	6X8	3	PULSE		1	2	
L-2	6X8	3	PULSE		1	2	
L-3	6X8	3	PULSE		2	2	
L-4	6X8	3	PULSE		2	2	
L-5	6X8	3	PULSE		3	6	
L-6	6X8	3	PULSE		3	6	
L-7	6X8	3	PULSE		4	6	
L-8	6X8	3	PULSE		4	6	
L-9	6X30	3+3	PRESENCE		5	8	POWERHEAD
L-10	6X30	3+3	PRESENCE	10 *	6	8	POWERHEAD
L-11	12X18X3X22	3	PRESENCE	10 *	6	8	RECTANGULAR
L-12	A=4.5'	4	PULSE	3 *	7	8	ADD LOOP
L-13	A=4.5'	4	PULSE	3 *	7	8	ADD LOOP
L-14	A=4.5'	4	PULSE	3 *	8	8	ADD LOOP
L-15	A=4.5'	4	PULSE	3 *	8	8	ADD LOOP

* NOTE: DELAY INHIBITED DURING ASSOCIATED PHASE GREEN.

EXISTING CONTROLLER FOUNDATION DETAIL

FLASHER OPERATION
YELLOW TO SR 2 WB EXIT RAMP
RED TO BAUMHART ROAD
SIGNAL NO. LOR-2-0333S
ROUTE TYPE 10
INSTALLATION DATE 10-15-96
FILE NO. 3563
OSIS NO. 519

DATE	REVISIONS	DATE INSTALLED
2-91	ORIGINAL CONSTRUCTION PLACED IN FLASH MODE, PROJ 876(90)	4-91
7-96	ADDED LOOPS L-12 AND L-14	10-15-96
	ADD SIDE MOUNT SIGNAL HEAD 3A	12-26-96
1-00	ADDED NB LT TURN PHASE AND NEW 8-PHASE CONTROLLER	6-1-00
9-06	REVISED PHASE DIAGRAM TO SHOW BACKUP PROTECTION	6-1-00
10-27-09	UPDATED DRAWING TO SHOW TETHER	6-1-00
3-2-10	CORRECTED SIGNAL HEAD QTYS IN EXIST MATERIAL LIST	
6/11/13	REPLACED LOOPS: L-9,L-10,L-11,L-12,L-13,L-14,L-15	6/2013

OHIO DEPARTMENT OF TRANSPORTATION

ELECTRICAL INSTALLATION LOCATED AT

SR 2 WB Ramp @ Baumhart Rd

Signal No. LOR-2-0333S

DISTRICT 3 COUNTY LORAIN

DESIGNED	DRAWN	REVISED	CHECKED	REVIEWED	DRAWING NO.
RJR 2/91	RJR 3/96				SHEET 1 OF 1

DESIGN FILE: I:\FIELDINV\ELECTRICAL\SIGNAL\DGN\L2&BaumhartWB.dgn
WORKSTATION: claughre DATE: 6/11/2013