

DESIGN FILE: I:\FIELD\VE\ELECTRICAL\SIGNAL\DWG\H224861.dwg
WORKSTATION: roney
DATE: 6/23/2009

LOOP DETECTOR CHART

LOOP	SIZE (FEET)	NO. OF TURNS	SHAPE	PULSE OR PRESENCE	DELAY (SEC.)	CONNECT TO DETECTOR UNIT NO.	ASSOCIATED CONTROLLER PHASE
L-1	6X6	4	DIAMOND	PULSE	3*	1	8
L-2	6X6	4	DIAMOND	PULSE	3*	2	8
L-3	8X16X40	2-4-2	RECTANGLE	PRESENCE	10*	3	8
L-4	6X30	3	RECTANGLE	PRESENCE	3*	4	3
L-5	6X30	3	RECTANGLE	PRESENCE	3*	5	7
L-6	8X16X40	2-4-2	RECTANGLE	PRESENCE	10*	6	4
L-7	6X6	4	DIAMOND	PULSE	3*	7	4
L-8	6X6	4	DIAMOND	PULSE	3*	8	4
L-9	6X6	4	DIAMOND	PULSE		9	2
L-9A	6X6	4	DIAMOND	PULSE		9	2
L-10	6X6	4	DIAMOND	PULSE		10	2
L-10A	6X6	4	DIAMOND	PULSE		10	2
L-11	6X20	3	RECTANGLE	PRESENCE		11	2
L-11A	6X20	3	RECTANGLE	PRESENCE		12	6
L-12	6X6	4	DIAMOND	PULSE		13	6
L-13	6X6	4	DIAMOND	PULSE		14	6

* NOTE: INHIBIT DELAY DURING ASSOCIATED PHASE GREEN INTERVAL.

INSTALL BATTERY BACKUP W/ ENCLOSURE GROUND MOUNT AND CONCRETE WORKPAD. INSTALL 2" CONDUIT TO CONTROLLER AND ATTACH LB ON SIDE OF EXIST CONTROLLER FND. REPLACE POWER CABLE BACK TO POLE P1.

CGM-CONTROLLER GROUND MOUNTED
STA. 50+76, 54' LT
W/ CONCRETE WORKPAD

③ 3-3" CONDUIT: 16-2/C #14 AWG
3-3/C #14 AWG AND 8-5/C #14 AWG

② 2" CONDUIT: 1-2/C #6 POWER

② 2-3" CONDUIT: 3-3/C & 4-5/C

P5 - DESIGN 7, 30'
STA. 441+05, 63' LT

PB-8 STA. 441+19, 60' LT

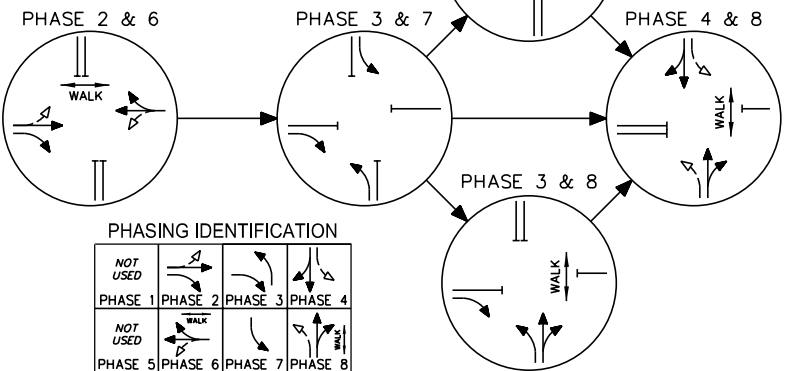
STA. 441+04, 37' LT

PROPOSED POWER SOURCE
STA 440+93, 45' RT

3" CONDUIT JACKED OR DRILLED:
4-2/C #14 AWG & 1-3/C #14 AWG

ASPHALT
PARKING LOT

SIGNAL PHASING DIAGRAM



MATERIAL REQUIRED PROJ. 62-03

REF.	ITEM	UNIT	DESCRIPTION	QTY.
9	625	L.F.	CONDUIT, 2", 713.04	6
13	625	L.F.	TRENCH	6
20	625	EACH	GROUND ROD, APP	1
52	632	L.F.	POWER CABLE, 2/C, NO. 6 AWG	56
94	633	C.Y.	CONCRETE FOR CABINET FND. (TYPE 2)	1.54
95	633	S.F.	CONTROLLER WORKPAD (30"X50")	10.4
113	633	EACH	BATTERY BACKUP SYSTEM W/ ENC.	1

MATERIAL REQUIRED - PROJ. 43(01)

ITEM	UNIT	DESCRIPTION	QTY.
625	EACH	CONNECTOR KIT, TYPE VIII, CU	12
625	EACH	LIGHT POLE FOUNDATION, 24"X6" DEEP	4
625	LIN.FT.	CONDUIT, 713.04, 2"	1697
625	LIN.FT.	CONDUIT, 713.04, 3"	502
625	LIN.FT.	CONDUIT JACKED OR DRILLED UNDER PAVEMENT, 3"	331
625	EACH	PULL BOX, 713.08, 18"	15
625	EACH	PULL BOX, 713.08, 24"	1
625	EACH	GROUND ROD, APP	10
631	EACH	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 36"X48"	4
632	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY	5
632	EACH	VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY	3
632	EACH	PEDESTRIAN SIGNAL HEAD, TYPE A2	4
632	EACH	PEDESTRIAN PUSHBUTTON	4
632	EACH	PEDESTRIAN SIGNAL HEAD, TYPE A2	4
632	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE	14
632	LIN.FT.	MESSANGER WIRE, 7-STRAND, 3/8" DIA. W/ ACC.	459
632	LIN.FT.	SIGNAL CABLE, 3/C, #14 AWG	2385
632	LIN.FT.	SIGNAL CABLE, 5/C, #14 AWG	928
632	EACH	STRAIN POLE FOUNDATION, APP	4
632	EACH	PEDESTAL FOUNDATION	3
632	LIN.FT.	LOOP DETECTOR LEAD-IN CABLE, 2/C, NO. 14 AWG	4778
632	LIN.FT.	POWER CABLE, 3/C, NO. 6 AWG	300
632	EACH	POWER SERVICE, APP	1
632	EACH	METER BASE, 100 AMP W/ BYPASS	1
632	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 7, 30 FEET	4
632	LIN.FT.	LOOP DETECTOR PAVEMENT CUTTING, APP	1115
632	LIN.FT.	LOOP DETECTOR WIRE, TYPE E, APP	3188
632	EACH	WOOD POLE, CLASS 5, 35 FEET	1
632	EACH	PEDESTAL, 8', TRANSFORMER BASE	3
633	EACH	CONTROLLER, ACTUATED, 8-PHASE, SOLID-STATE DIGITAL MICROPROCESSOR	1
633	EACH	WEEKLY PROGRAMMER, SOLID-STATE DIGITAL	1
633	CU.YD.	CONCRETE FOR CABINET FOUNDATION, TC-83.20, TYPE 2	1.82
633	SQ.FT.	CONTROLLER WORKPAD, TC-83.20, TYPE 2 (30"X50")	10.4

SPANWIRE MOUNTED SIGNS

⑨ ⑩ ⑪ ⑫
TYPICAL PEDESTRIAN
SIGNAL HEAD
TYPE A2
(ALUMINUM)

① ③ ④ ⑥ ⑦
TYPICAL VEHICULAR
SIGNAL HEADS
ALL 12" SIGNAL HEADS
(ALUMINUM)

FLASHER OPERATIONS

RED TO: SR 61
YELLOW TO: USR 224
SIGNAL NO.: HUR-224-0838S
INSTALLATION DATE: 3-29-73
FILE NUMBER: 0045
OSIS NUMBER: 516

NEW HAVEN SCHOOL

SIGNAL NO.: HUR-224-0838F
FILE NUMBER: 0920
OSIS NUMBER: 2179

DATE	REVISIONS	DATE INSTALLED
10-12-01	PLAN REDRAWN PER REBUILD PROJ 315-00 ADDED LEFT TURN PHASING ON SR 61	5-21-01
3-4-05	INSTALLED BATTERY BACKUP PER PROJ. 62-03	5-24-05
11-13-07	REVISED CALL LOOP LOCATIONS ON SR 61	?
6-23-09	CORRECTED NORTH ARROW ORIENTATION	

OHIO DEPARTMENT OF TRANSPORTATION

ELECTRICAL INSTALLATION
LOCATED AT

USR 224 & SR 61

District	3	County	HURON
DESIGNED	CVH	DRAWN	RJR 10/01
REVISED		CHECKED	
REVIEWED		SHEET	1
		OF	1