

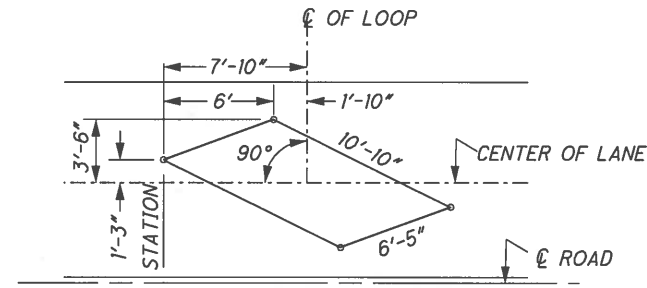
5" BACKPLATE
W/ YELLOW
REFLECTIVE
TAPE BORDER
PER CMS 732.22,
TYPICAL ALL
SIGNAL HEADS



1 2 3 4 5 6 7 8

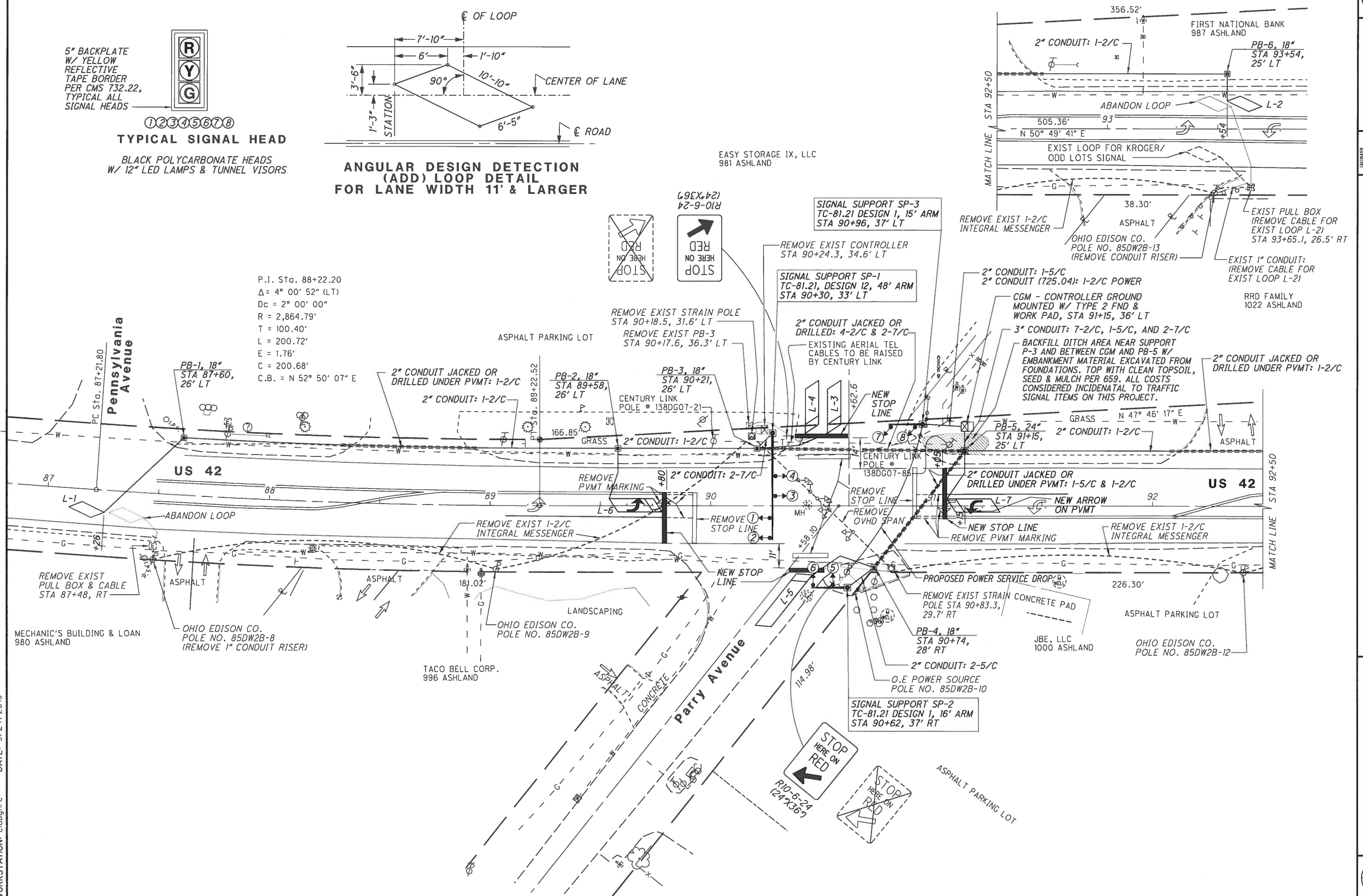
TYPICAL SIGNAL HEAD

BLACK POLYCARBONATE HEADS
W/ 12" LED LAMPS & TUNNEL VISORS



ANGULAR DESIGN DETECTION (ADD) LOOP DETAIL FOR LANE WIDTH 11' & LARGER

P.I. Sta. 88+22.20
 $\Delta = 4^\circ 00' 52''$ (LT)
 $D_c = 2^\circ 00' 00''$
 $R = 2,864.79'$
 $T = 100.40'$
 $L = 200.72'$
 $E = 1.76'$
 $C = 200.68'$
C.B. = N 52° 50' 07" E

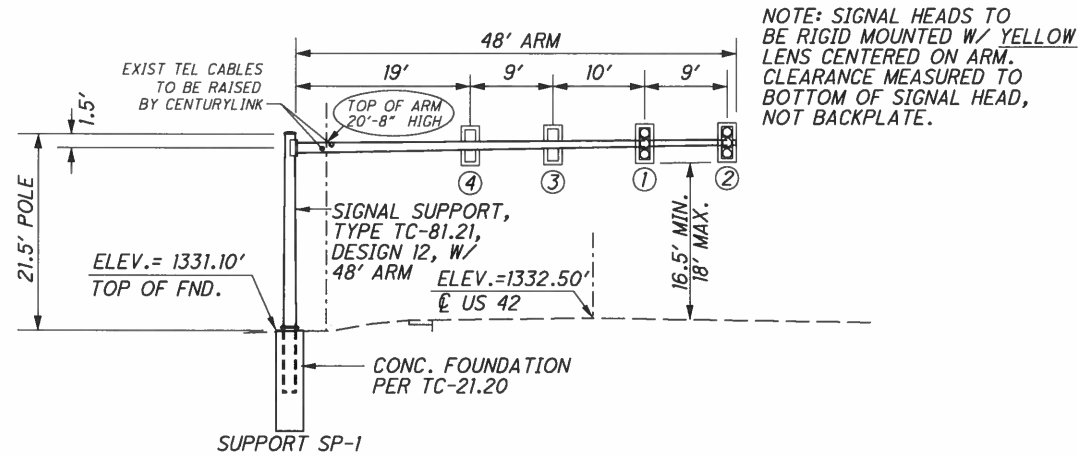


TRAFFIC SIGNAL PLAN
RIC-42-13.57 AT PARRY AVE.

RIC-42-13.57
RIC-39.12.65

16
24

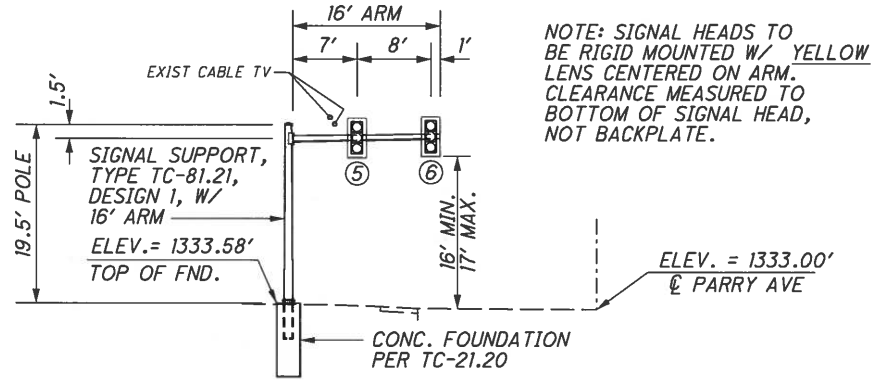
DESIGN FILE: I:\FIELD\IN\ELECTRICAL\SIGNAL\DG\N\428\Parry.dgn
WORKSTATION: claughe DATE: 9/24/2019



**SIGNAL SUPPORT SP-1
ELEVATION VIEW**

STA 90+30, 33' LT, US 42
LOOKING NORTHEAST

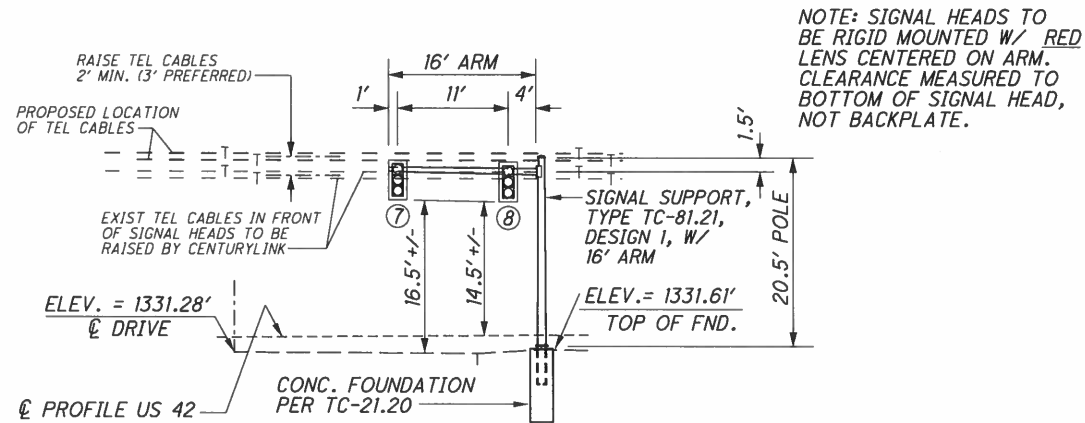
BM - TOP CENTER OF MH COVER,
STA 90+43.90, 0.54' LT, US 42
ELEV. = 1332.61'



**SIGNAL SUPPORT SP-2
ELEVATION VIEW**

STA 90+62, 37' RT, US 42
LOOKING SOUTHEAST

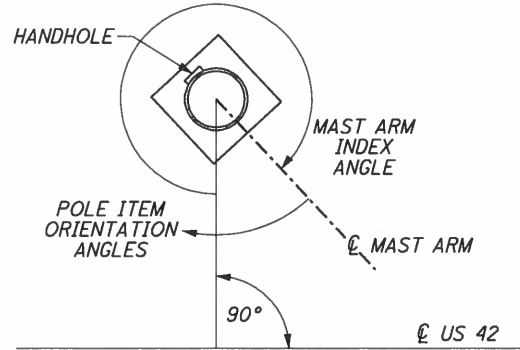
BM - TOP CENTER OF MH COVER,
STA 90+43.90, 0.54' LT, US 42
ELEV. = 1332.61'



**SIGNAL SUPPORT SP-3
ELEVATION VIEW**

STA 90+95, 36' LT, US 42
LOOKING NORTHWEST

BM - TOP CENTER OF MH COVER,
STA 90+43.90, 0.54' LT, US 42
ELEV. = 1332.61'



**SIGNAL SUPPORT
ORIENTATION DIAGRAM**

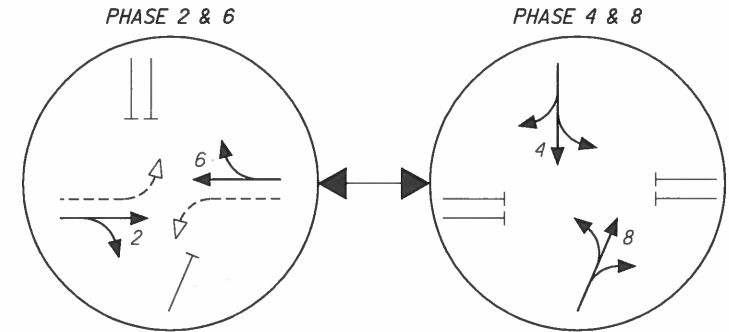
SUPPORT NO.	MAST ARM INDEX ANGLE	ORIENTATION ANGLES (DEG.) FROM MAST ARM					
		POWER SERVICE	CONTROLLER	HANDHOLE	3" CONDUIT	2" CONDUIT (725.04)	2" CONDUIT (725.05)
SP-1	0°			180°			45°
SP-2	270°			180°			135°
SP-3	0°	180°		180°			270°

LOOP DETECTOR CHART

LOOP	SIZE (FT.)	NO. TURNS	MODE	DELAY (SEC.)	CONNECT DETECTOR UNIT NO.	ASSOCIATED CONTROLLER PHASE	COMMENTS
L-1	6.4'X10.8'	4	PULSE		1	2	ADD LOOP
L-2	6.4'X10.8'	4	PULSE		2	6	ADD LOOP
L-3	6X20	4+4	PRESENCE	10*	3	4	POWERHEAD
L-4	6X20	4+4	PRESENCE	10*	4	4	POWERHEAD
L-5	6X30	4+4	PRESENCE	10*	5	8	POWERHEAD
L-6	6X20	4+4	PRESENCE		6	2	POWERHEAD
L-7	6X20	4+4	PRESENCE		7	6	POWERHEAD

* INHIBIT DELAY DURING ASSOCIATED PHASE GREEN INTERVAL

PHASING DIAGRAM



SIGNAL TIMING CHART

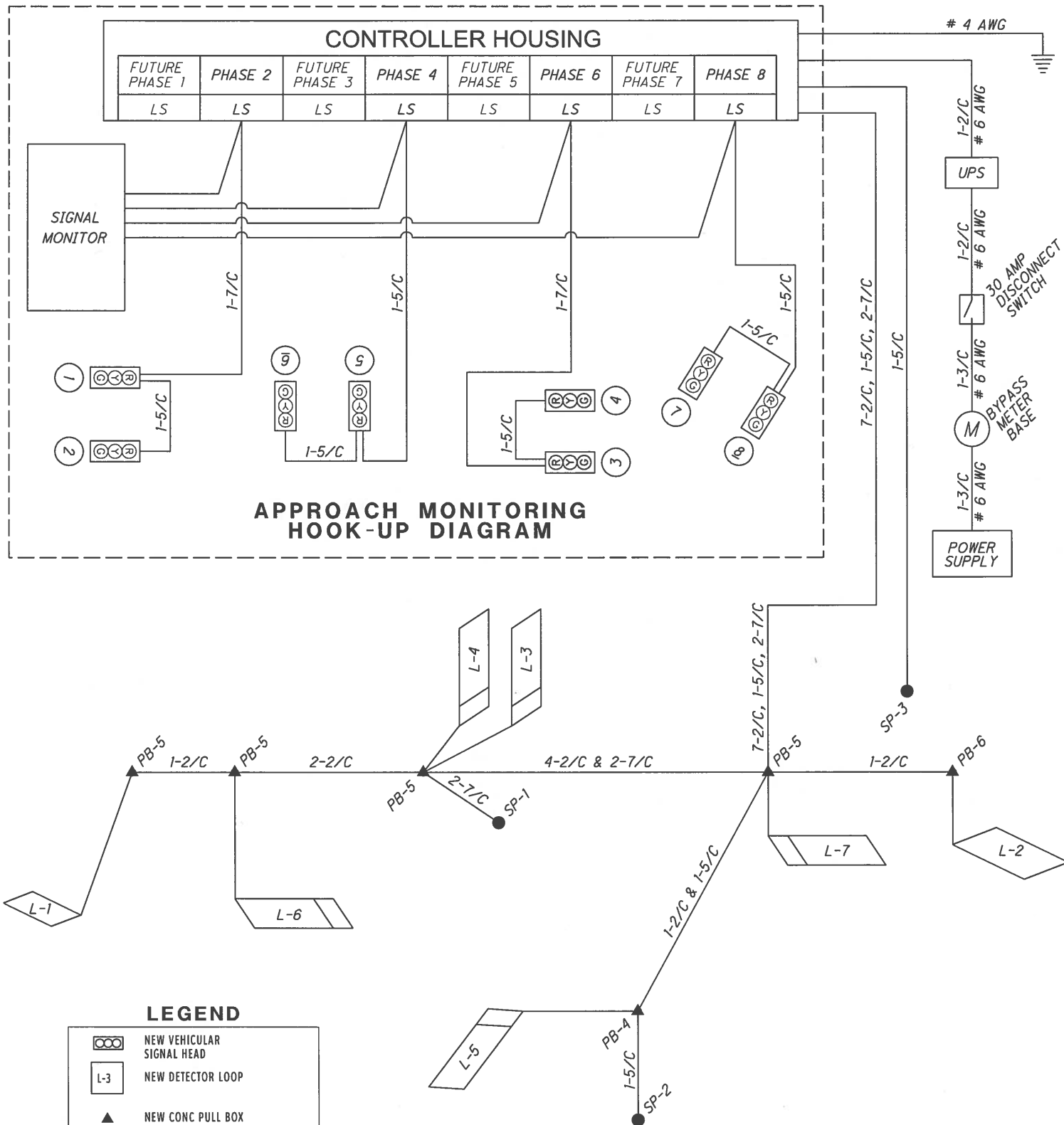
INTERVAL	PHASE							
	1 FUTURE USE	2 US 42 NB	3 FUTURE USE	4 DRIVE EB	5 FUTURE USE	6 US 42 SB	7 FUTURE USE	8 PARRY WB
MINIMUM GREEN		24		10		24		10
PASSAGE		4		4		4		4
YELLOW		3.6		3.0		3.6		3.0
ALL RED		1.9		2.4		1.9		2.4
MAXIMUM GREEN		50		30		50		30
WALK								
PED CLEAR								
MIN. RECALL		YES		NO		YES		NO
DET. NON-LOCK		NO		YES		NO		YES
INITIALIZATION		GRN		RED		GRN		RED

SIGNAL INDICATION CHART

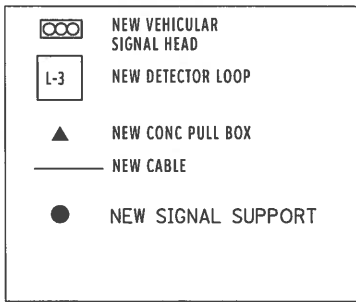
PHASE	SIGNAL HEAD							
	US 42				PARRY AVE			
	NB	SB	EB	WB	NB	SB	EB	WB
2 & 6	G G	G G	R R	R R	R R	R R	R R	R R
	Y Y	Y Y	R R	R R	R R	R R	R R	R R
	R R	R R	R R	R R	R R	R R	R R	R R
4 & 8	R R	R R	G G	G G	G G	G G	G G	G G
	R R	R R	Y Y	Y Y	Y Y	Y Y	Y Y	Y Y
	R R	R R	R R	R R	R R	R R	R R	R R
FLASH	Y Y	Y Y	R R	R R	R R	R R	R R	R R

TRAFFIC SIGNAL DETAILS
RIC-42-13.57 AT PARRY AVE.

RIC-42-13.57
RIC-39.12.65



LEGEND



WIRING DIAGRAM

NOTE: ALL CABLE #14 AWG UNLESS NOTED OTHERWISE

ESTIMATED QUANTITIES

ITEM	EXT.	QTY.	UNIT	DESCRIPTION
630	80100	12	SQ FT	SIGN, FLAT SHEET
630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	97700	4	EACH	SIGNING, MISC: SIGN DATA COLLECTION
644	00500	85	EACH	STOP LINE
644	01300	2	EACH	LANE ARROW
644	30000	108	FT	REMOVAL OF PAVEMENT MARKING
644	30020	2	EACH	REMOVAL OF PAVEMENT MARKING
603	00401	60	FT	4" CONDUIT, TYPE E, AS PER PLAN
625	25400	19	FT	CONDUIT, 2", 725.04
625	25402	418	FT	CONDUIT, 2", 725.05
625	25502	11	FT	CONDUIT, 3", 725.05
625	25901	301	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 2"
625	29001	429	FT	TRENCH, AS PER PLAN
625	30701	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN
625	30707	1	EACH	PULL BOX, 725.08, 24", AS PER PLAN
625	32001	4	EACH	GROUND ROD, AS PER PLAN
632	05005	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN
632	25001	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN
632	26501	7	EACH	DETECTOR LOOP, AS PER PLAN
632	27009	7	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	40500	308	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	40700	461	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64011	3	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN
632	65300	1230	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG
632	68200	35	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
632	68300	20	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	70001	1	FT	POWER SERVICE, AS PER PLAN
632	80103	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN
632	80603	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN
632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	01581	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN
633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN
633	67200	1	EACH	CONTROLLER WORK PAD
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN, WITHOUT ENCLOSURE
614	11111	8	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN