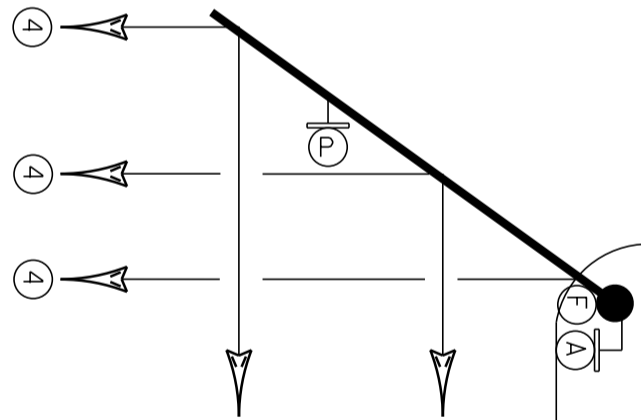
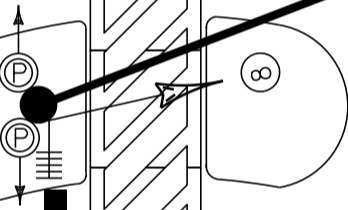
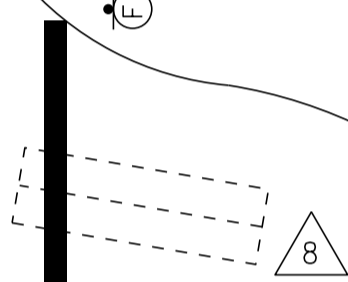
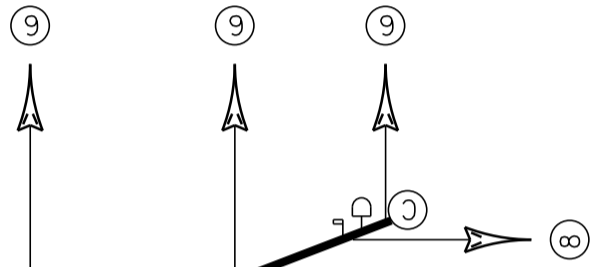
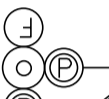
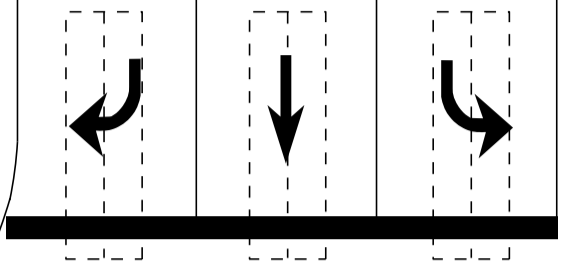
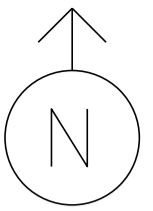


MS # 406

- ⊙ PEDESTAL POST
- Ⓟ PEDESTRIAN SIGNAL
- ¶ PREEMPTION DETECTOR
- ♀ PREEMPTION STROBE
- ⊏ L.E.D REGULATORY SIGN
- ⊠ CONTROL BOX
- MAST ARM
- ⌋ COORDINATION
- ⋯ LOOP DETECTION
- Ⓜ JB JUNCTION BOX
- STANCHION

6 ONLY



4

4

ONLY

- Ⓐ =
- Ⓒ =
- Ⓕ =
- Ⓖ =
- Ⓙ =
- Ⓚ =

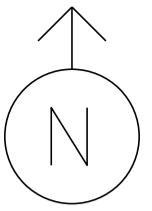
2 2J

2

2

NOT TO SCALE

MS # 406



11'

11'

11'

11'

11'

ONLY

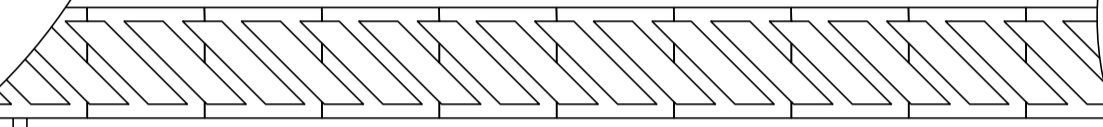
ONLY

LANE LINE 80'

LANE LINE 80'



STOP BAR 34'



CROSSWALK 70'

12'

12'

12'

12'

CROSSWALK 104'

STOP BAR 36'

LANE LINE 70'

ONLY



STOP BAR 15'

15'

13'

STOP BAR 22'

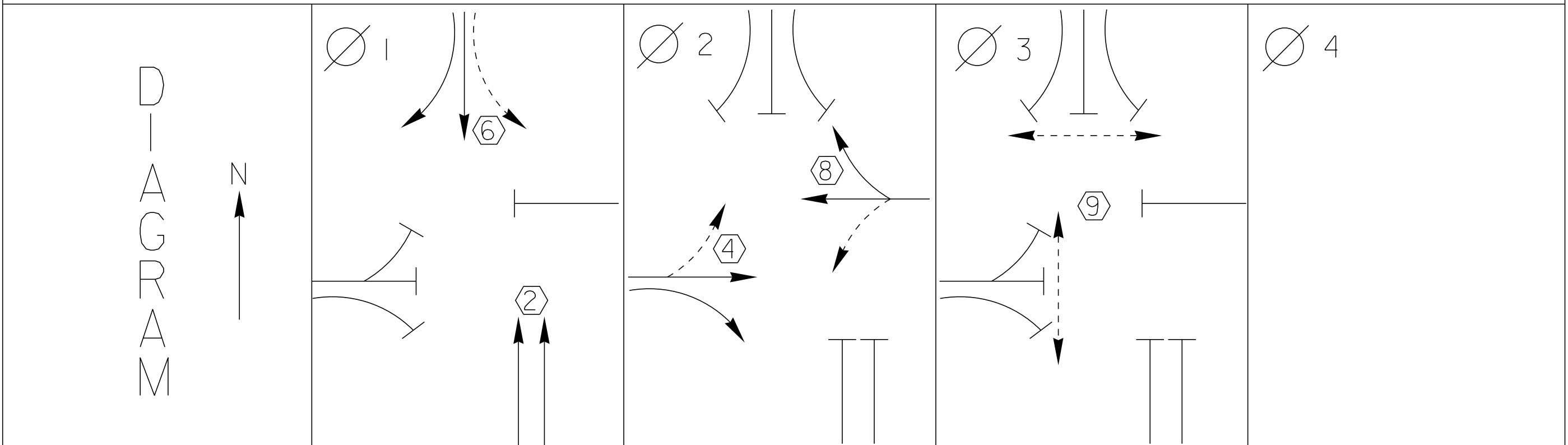
11'

11'

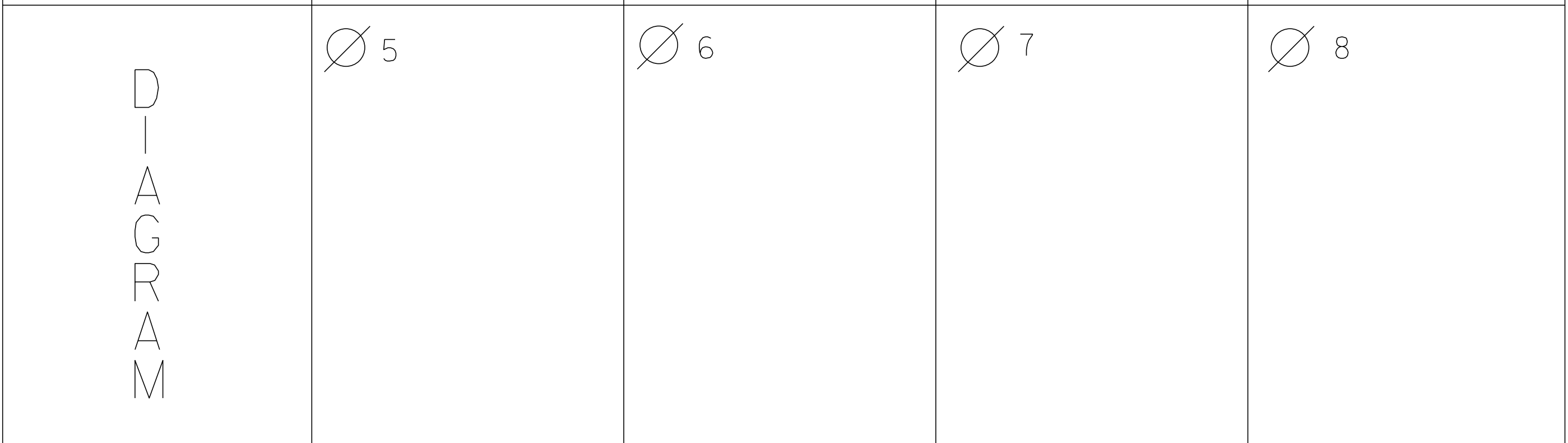
11'

11'

NOT TO SCALE



T I M I N G	G = Y =	G = Y =	G = Y =	G = Y =
----------------------------	------------	------------	------------	------------



T I M I N G	G = Y =	G = Y =	G = Y =	G = Y =
----------------------------	------------	------------	------------	------------

 <p>PROTECTED TURNS</p>	 <p>PERMITTED TURNS PEDESTRIAN</p>	CYCLE LENGTH, C = _____ S
---	--	---------------------------



RIGHT
LANE
ENDS





NO
TURN
ON
RED







ONLY

NO
TURN
ON
RED

Right turn arrow sign



WORCESTER AVE

**LEGAL LOAD
LIMIT
24,000
POUNDS**



NO
TURN
ON
RED

7

7



NO
TURN
ON
RED







LEFT TURN
YIELD
TO GREEN

ONLY

ONLY

LEFT TURN
YIELD
TO GREEN

RIGHT TURN
ONLY

RIGHT TURN
ONLY

RIGHT TURN
ONLY

LEFT TURN
YIELD
ON GREEN





LEFT TURN
YIELD
ON GREEN

ONLY

ONLY

↑

⚠

30

↑











HIGHLAND AVE





LEFT TURN ONLY

NO LEFT TURN





WORCESTER AVE

LEGAL LOAD
LIMIT
24,000
POUNDS

NO
TURN
ON
RED





WILKESBORO AVE

LEGAL LOAD
LIMIT
24,000
POUNDS

NO
TURN
ON
RED













ONLY ONLY

NO TURN ON RED

ONLY

ONLY

ONLY

ONLY



PROPERTY OF
VT. AGENCY OF TRANS.
MAINTENANCE DIV.
IN EMERGENCY CALL
DIST. TRUCK OFFICE
226-4000
NIGHTS & WEEKDAYS - 200-9900
REPAIRS/REPAIRS 24 HOURS

PROPERTY OF :

VT. AGENCY OF TRANS.
MAINTENANCE DIV.

IN EMERGENCY CALL :

DIST. TRANS. OFFICE

295-8888

NIGHTS & WEEKENDS : 250-0163

INTERSECTION NO. MS-406



DANGER
115 VOLTS A.C.

Highway Tech
Signal Controller

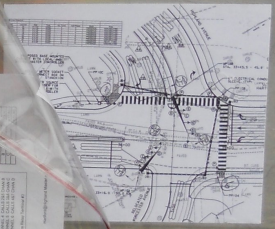
STOP/TIME ON TEST NORMAL ON CONTROLLER ON
AUTO FLASH OFF

WIRING DIAGRAM

NO.	DESCRIPTION	NO.	DESCRIPTION
1	...	1	...
2	...	2	...
3	...	3	...
4	...	4	...
5	...	5	...
6	...	6	...
7	...	7	...
8	...	8	...
9	...	9	...
10	...	10	...
11	...	11	...
12	...	12	...
13	...	13	...
14	...	14	...
15	...	15	...
16	...	16	...
17	...	17	...
18	...	18	...
19	...	19	...
20	...	20	...
21	...	21	...
22	...	22	...
23	...	23	...
24	...	24	...
25	...	25	...
26	...	26	...
27	...	27	...
28	...	28	...
29	...	29	...
30	...	30	...
31	...	31	...
32	...	32	...
33	...	33	...
34	...	34	...
35	...	35	...
36	...	36	...
37	...	37	...
38	...	38	...
39	...	39	...
40	...	40	...
41	...	41	...
42	...	42	...
43	...	43	...
44	...	44	...
45	...	45	...
46	...	46	...
47	...	47	...
48	...	48	...
49	...	49	...
50	...	50	...

WIRING DIAGRAM

NO.	DESCRIPTION	NO.	DESCRIPTION
1	...	1	...
2	...	2	...
3	...	3	...
4	...	4	...
5	...	5	...
6	...	6	...
7	...	7	...
8	...	8	...
9	...	9	...
10	...	10	...
11	...	11	...
12	...	12	...
13	...	13	...
14	...	14	...
15	...	15	...
16	...	16	...
17	...	17	...
18	...	18	...
19	...	19	...
20	...	20	...
21	...	21	...
22	...	22	...
23	...	23	...
24	...	24	...
25	...	25	...
26	...	26	...
27	...	27	...
28	...	28	...
29	...	29	...
30	...	30	...
31	...	31	...
32	...	32	...
33	...	33	...
34	...	34	...
35	...	35	...
36	...	36	...
37	...	37	...
38	...	38	...
39	...	39	...
40	...	40	...
41	...	41	...
42	...	42	...
43	...	43	...
44	...	44	...
45	...	45	...
46	...	46	...
47	...	47	...
48	...	48	...
49	...	49	...
50	...	50	...



US Highway 5 (Hartford Avenue) @ Highland Avenue/Worcester Avenue
Hartford Vermont

STREET	PHASE	SIGNAL	GRN	YEL	RED	G→←	Y→←	WALK	DW
	ø1		501	502	503				
Hartford NB	ø2		504	505	506				
	ø3		507	508	509				
Highland EB	ø4		510	511	512				
	ø5		513	514	515				
Hartford SB	ø6		516	517	518				
	ø7		519	520	521				
Worcester WB	ø8		522	523	524				
Exclusive PED	ø9PED							525	527
	ø4PED							528	530
	ø6PED							531	533
	ø8PED							534	536

LOOPS

STREET	PHASE	LOOP LOCATION	PANEL TERMINATION	DELAY	EXT	NOTES
1 Hartford NB	ø2		DT2 1&2			
2 Hartford NB	ø2		DT2 3&4			
3 Hartford SB	ø6		DT2 5&6			
4 Hartford SB	ø6		DT2 7&8			
5 Hartford SB	ø6		DT2 9&10			
6 Highland EB	ø4		DT2 11&12			
7 Highland EB	ø4		DT3 1&2			
8 Worcester WB	ø8		DT3 3&4			
9	ø		DT3 5&6			
10	ø		DT3 7&8			
11	ø		DT3 9&10			
12	ø		DT3 11&12			
13	ø		DT4 1&2			
14	ø		DT4 3&4			
15	ø		DT4 5&6			
16	ø		DT4 7&8			

OVERLAPS

OLA=
OLB=
OLC=
OLD=
OLE=
OLF=

PREEMPTION

CHANNEL 1 CALLS
CHANNEL 2 CALLS
CHANNEL 3 CALLS 1&6 CHAN A
CHANNEL 4 CALLS 2&5 CHAN B
CHANNEL 5 CALLS 3&8 CHAN C
CHANNEL 6 CALLS 4&7 CHAN D

Strobe Relay Terminal #3

PED BUTTON HOOKUP

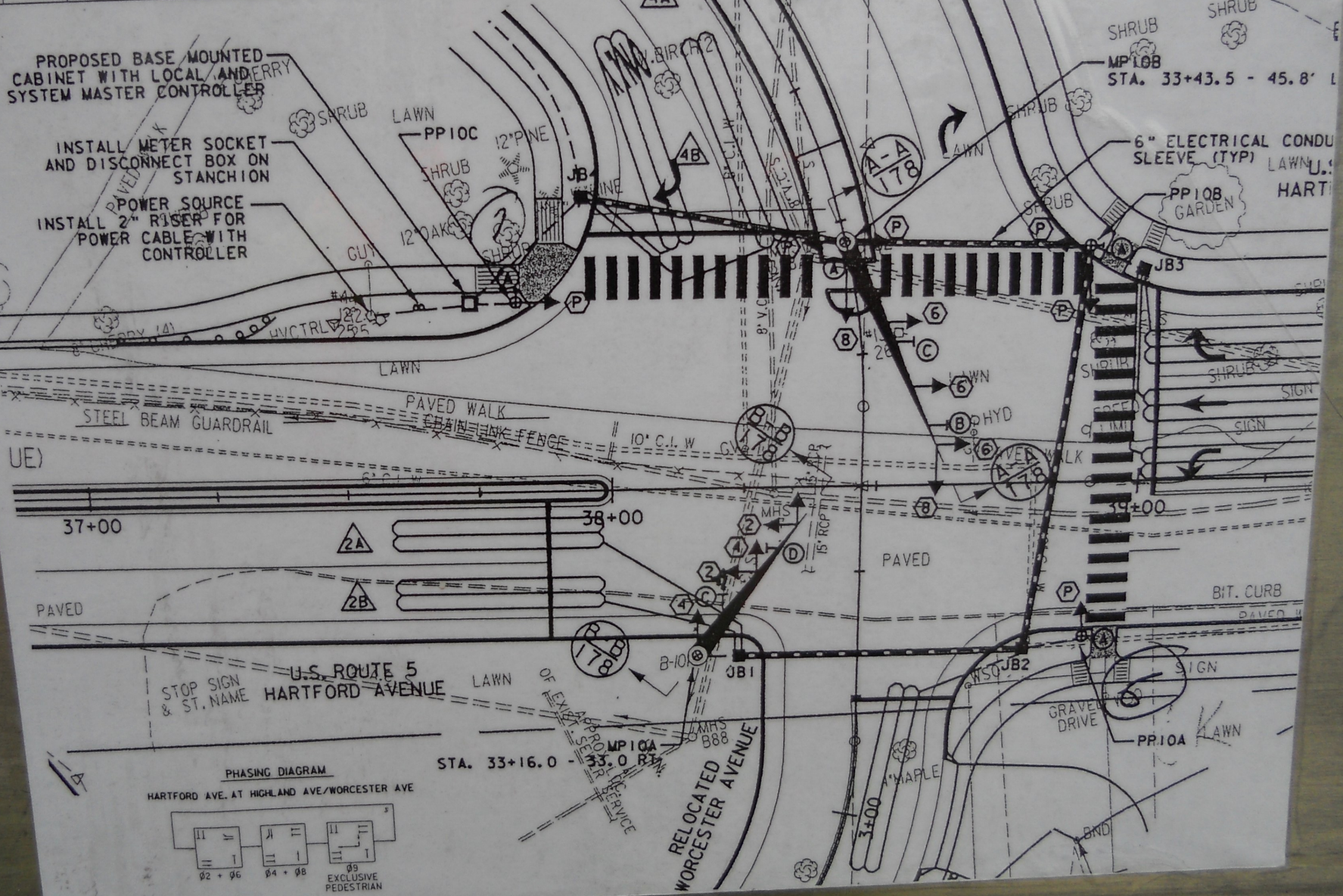
CHANNEL	PHASE	TERMINAL
A	ø9	DT4-9.AC-
B	ø	DT4-10.AC-
C	ø	DT4-11.AC-
D	ø	DT4-12.AC-

Vehicle Loop Detectors							
Lane	Loop No	Size	Type	No. Turns	Call Phase	Mode	Amp.
NB TH	2A	6' X 40'	QUAD	2	2	PRESENCE	NON-DELAYED
NB TH	2B	6' X 40'	QUAD	2	4	PRESENCE	NON-DELAYED
EB TH LT	4A	6' X 40'	QUAD	2	4	PRESENCE	NON-DELAYED
EB RT	4B	6' X 40'	QUAD	2	6	PRESENCE	NON-DELAYED
SB LT	6A	6' X 40'	QUAD	2	6	PRESENCE	NON-DELAYED
SB TH	6B	6' X 40'	QUAD	2	6	PRESENCE	DELAY - 5 SEC
SB RT	6C	6' X 40'	QUAD	2	8	PRESENCE	NON-DELAYED
WB TH LT/RT	8	6' X 40'	QUAD	2	8	PRESENCE	NON-DELAYED

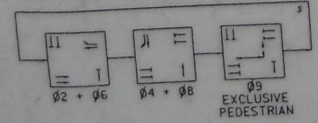
PROPOSED BASE MOUNTED CABINET WITH LOCAL AND FERRY SYSTEM MASTER CONTROLLER

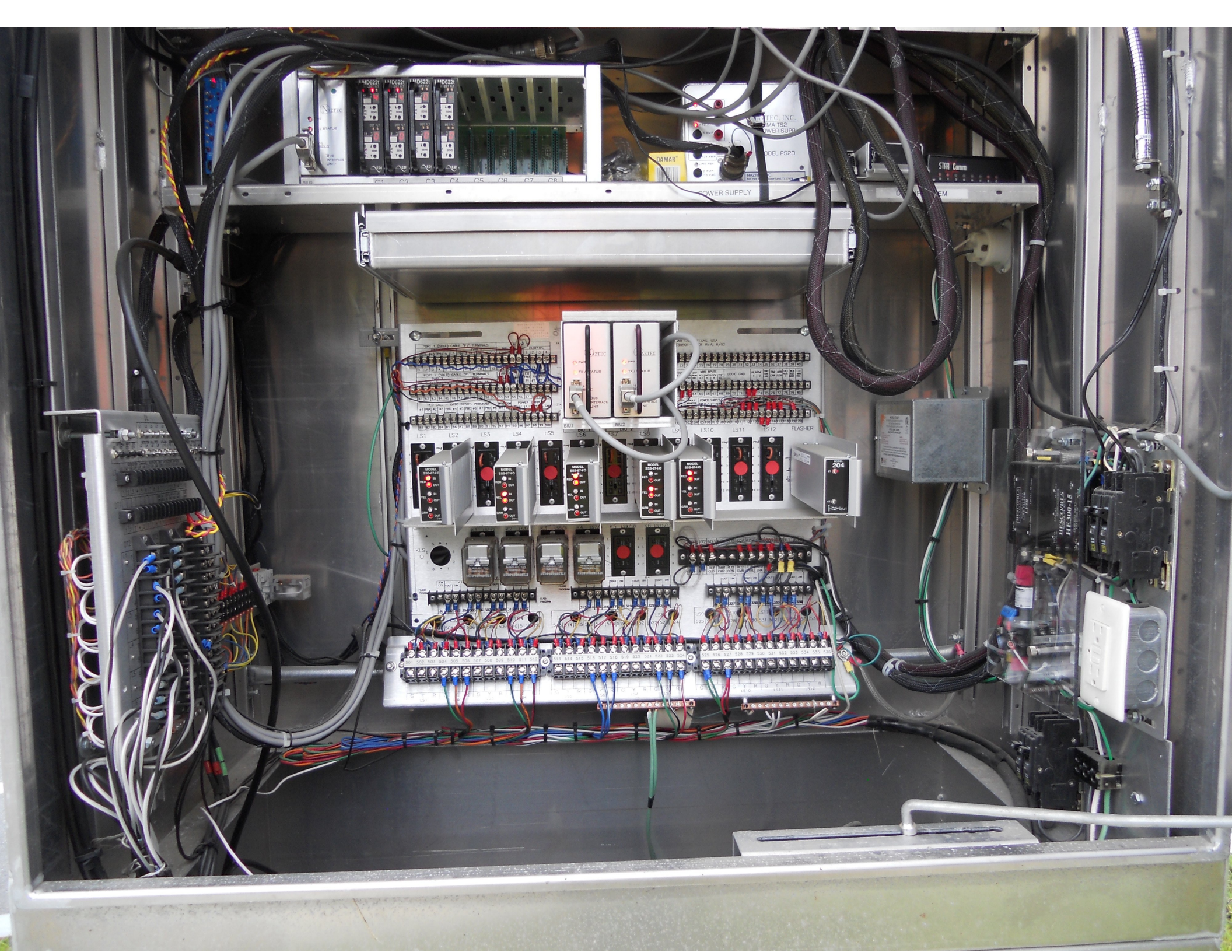
INSTALL METER SOCKET AND DISCONNECT BOX ON STANCHION

POWER SOURCE INSTALL 2" RISER FOR POWER CABLE WITH CONTROLLER



PHASING DIAGRAM
HARTFORD AVE. AT HIGHLAND AVE./WORCESTER AVE





NATEC
MODEL 6221
BLUE OVERHEAD UNIT

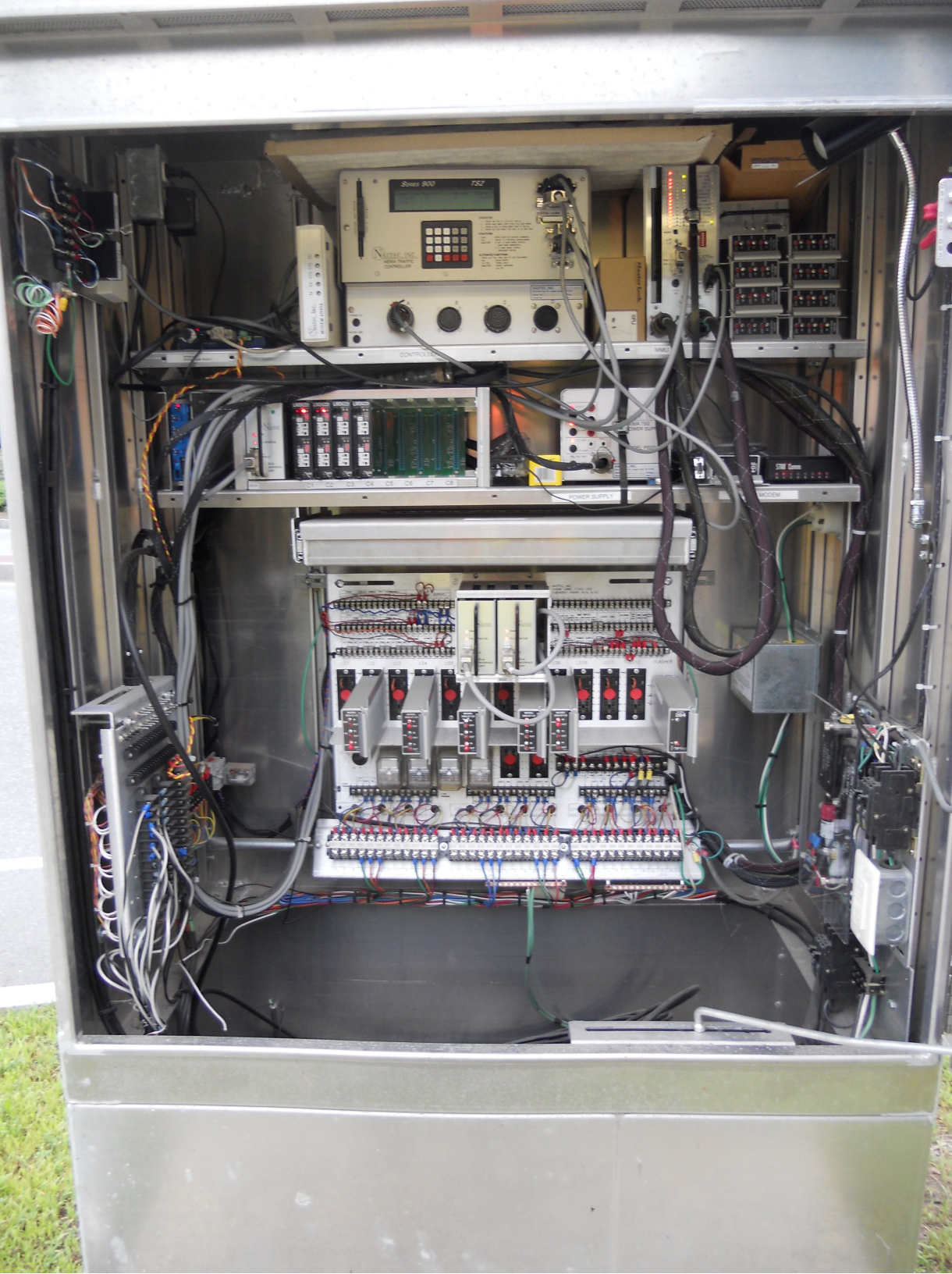
NATEC, INC.
MODEL TS2
POWER SUPPLY
DAMAR

STAR Comm

NATEC
LS1 LS2 LS3 LS4 LS5
LS6 LS7 LS8 LS9 LS10 LS11 LS12
FLASHER
204

512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000

STAR Comm
HIP-300-1



NAZTEC
PWR
TX / STATUS
P1 SDLC
BUS INTERFACE UNIT

LMD622t
DET FLT
11 TM
TOMETER 3
DE SENS
DET FLT
12 TM
TOMETER 0
DE SENS
EDI

LMD622t
DET FLT
DE T
TOMETER 0
DE SENS
DET FLT
DE T
TOMETER 0
DE SENS
EDI

LMD622t
DET FLT
CH DEFLEC
TOMETER 0
DE SENS
DET FLT
CH DEFLEC
TOMETER 0
DE SENS
EDI

LMD622t
DET FLT
CH 1 DEFLECTOME
TOMETER 0
DE SENS
DET FLT
CH 2 DEFLECTOME
TOMETER 0
DE SENS
EDI

BIU9

C1

C2

C3

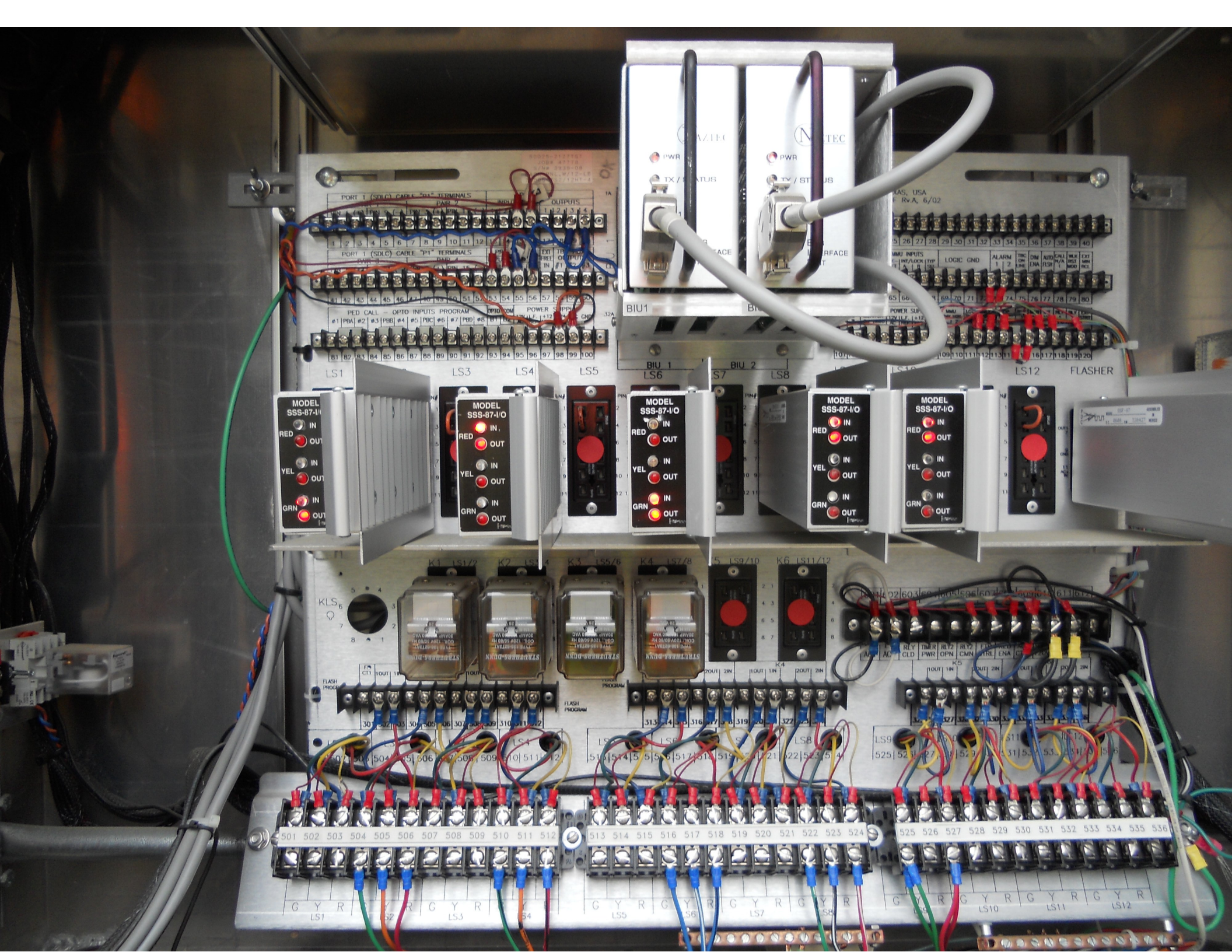
C4

C5

C6

C7

C8



DANGER / PELIGRO

HAZARD OF ELECTRICAL SHOCK OR BURN
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SERVICIO POR PERSONAL AUTORIZADO DE LA COMPAÑIA
ELECTRICA PUERTO RICO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA



CONTAINS FCC ID: Q3C-RX2E4 SERIAL # 14 678 620
CONTAINS FCC ID: 682281
G.M.P.
E14678620
elster
TYPE R2SD
1 4 6 7 8 6 2 0
CL200, 240V, 3W, 60Hz FM 2S Watthour Meter Kh1.0 TA 30
LAN ID: 078-0007295090
ZFCWMB0000-05
REV 1-1204

CIRCUIT BREAKERS UNDER FLAP
NO FUSES IN BOX
DO NOT BREAK SEAL

DANGER / PELIGRO

HAZARD OF ELECTRICAL SHOCK OR BURN
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SERVICIO POR PERSONAL AUTORIZADO DE LA COMPAÑIA
ELECTRICA PUERTO RICO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA



Date: 08/09/2012

Timing Data:

Phase	1	2	3	4	5	6	7	8	9
Phases in use	x	x		x	x	x		x	x
Min Green	0	12	0	6	5	12	0	6	0
Walk	0	0	0	0	0	0	0	0	0
Ped Clr	0	0	0	0	0	0	0	0	25
Veh Ext	0	2	0	3	5	2	0	3	0
MAX 1	0	35	0	31	5	35	0	31	0
MAX 2	0	0	0	0	0	0	0	0	0
MAX 3	0	0	0	0	0	0	0	0	0
Yellow	4	4	4	4	4	4	4	4	3
All Red	2	2	2	2	2	2	2	2	0
Recall to Max	0	0	0	0	0	0	0	0	0

Coordination Patterns: ACS3/Naztec

Pattern 1									
Cycle Length	75	Offset	0	COS	111				
Splits	Ph 1	0	Ph 2	38	Ph 3	0	Ph 4	37	
	Ph 5	0	Ph 6	38	Ph 7	0	Ph 8	37	
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0	
Pattern 2(21)									
Cycle Length	75	Offset	0	COS	211				
Splits	Ph 1	0	Ph 2	41	Ph 3	0	Ph 4	34	
	Ph 5	0	Ph 6	41	Ph 7	0	Ph 8	34	
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0	
Pattern 3									
Cycle Length	75	Offset	0	COS	311				
Splits	Ph 1	0	Ph 2	40	Ph 3	0	Ph 4	35	
	Ph 5	0	Ph 6	40	Ph 7	0	Ph 8	35	
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0	
Pattern 4									
Cycle Length	75	Offset	0	COS	411				
Splits	Ph 1	0	Ph 2	39	Ph 3	0	Ph 4	36	
	Ph 5	0	Ph 6	39	Ph 7	0	Ph 8	36	
	Ph 9	0	Ph 10	0	Ph 11	0	Ph 12	0	

Action Plan

Action Plan	Pattern
1	1
2	2
3	3
4	4
5 to 53	0
54	254-FREE
55	255-FLASH

Day Plan [1]

Event	Action Plan	Step Begins
1	54	0000
2	54	0600
3	54	0900
4	54	1400
5	54	1600
6	54	1800