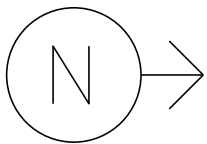
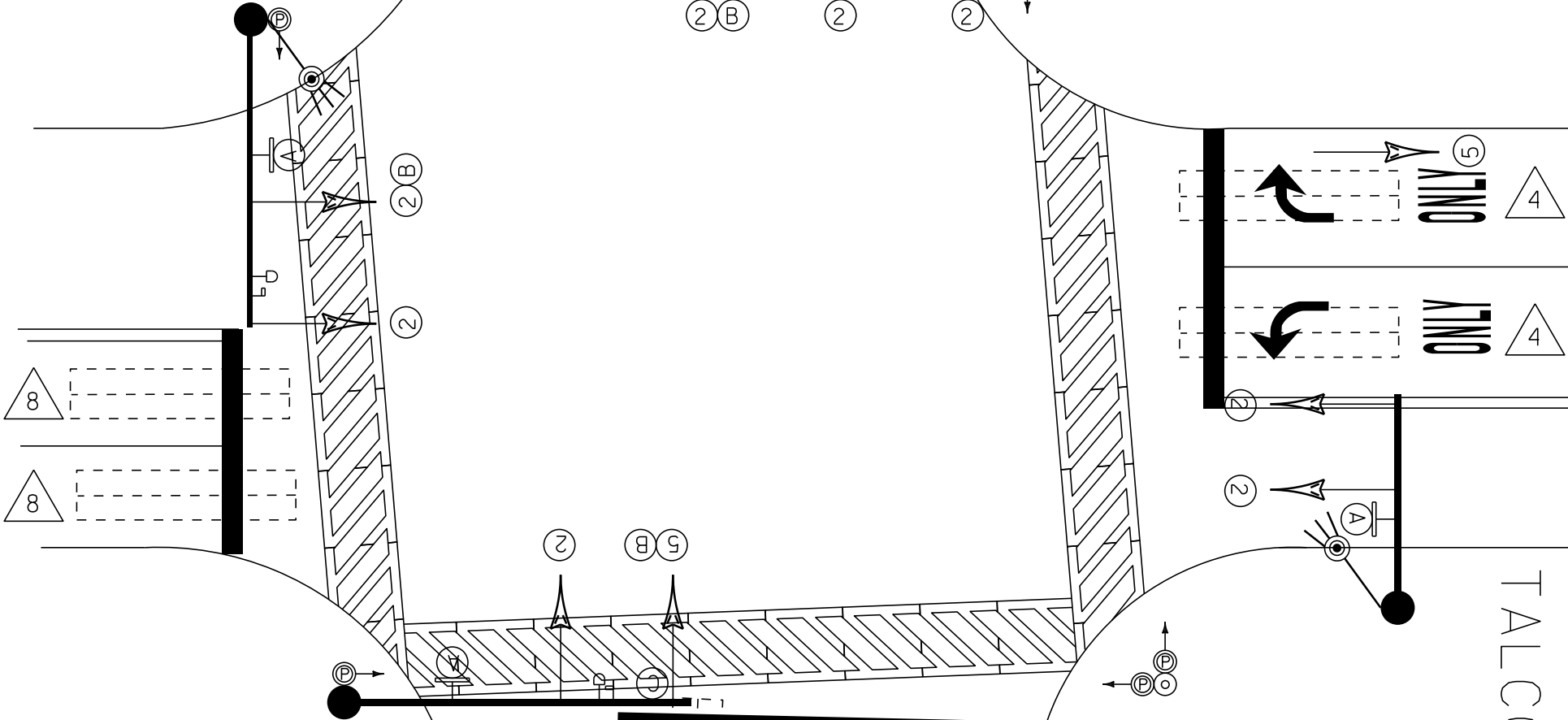


MS # 581

US 2 WEST



DRIVING RANGE



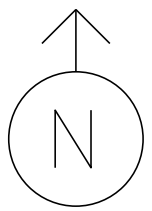
- ⊙ PEDESTAL POST
- ⊙→ PEDESTRIAN SIGNAL
- ⌞ PREEMPTION DETECTOR
- ♀ PREEMPTION STROBE
- ⌞ L.E.D REGULATORY SIGN
- ⊠ CONTROL BOX
- MAST ARM
- ⌞ COORDINATION
- LOOP DETECTION
- ⊠ JUNCTION BOX
- ⌞ LUMINAIRE
- ⌞ STANCHION

- (A) =
- (B) =
- (C) =

US 2 EAST

NOT TO SCALE

MS # 581



US 2 WEST

12'

12'

LANE LINE 115'

ONLY



STOP BAR 26'

DRIVING RANGE

10'

LANE LINE 20'

12'

CROSSWALK 70'

STOP BAR 23'

CROSSWALK 76'

STOP BAR 37'

CROSSWALK 62'

STOP BAR 22'



ONLY

11'

LANE LINE 40'



ONLY

11'

TALCOTT RD.

ONLY

11'

LANE LINE 100'

13'

LANE LINE 140'

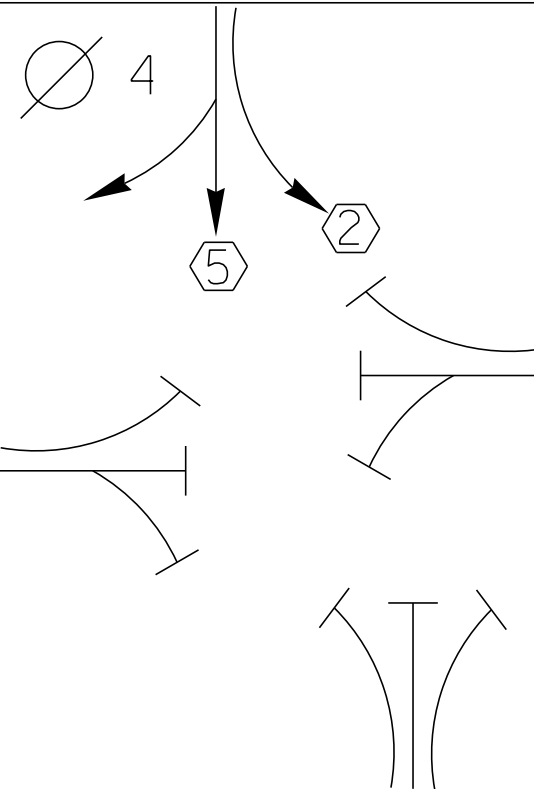
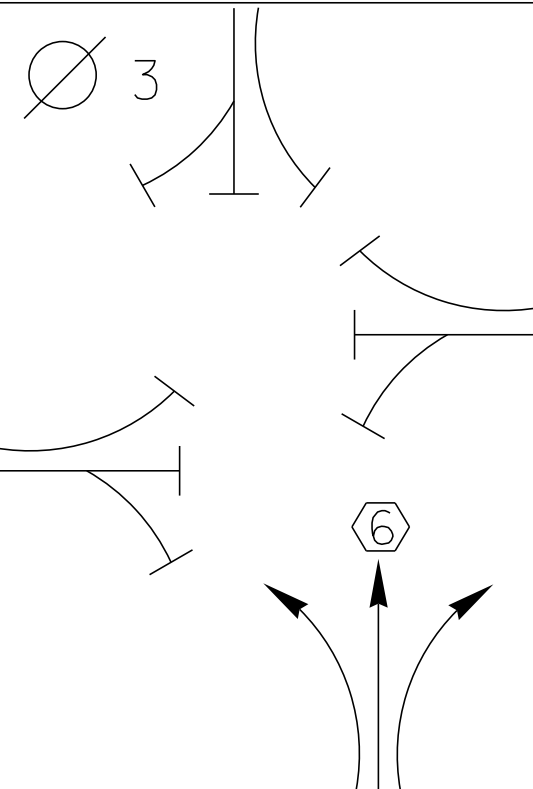
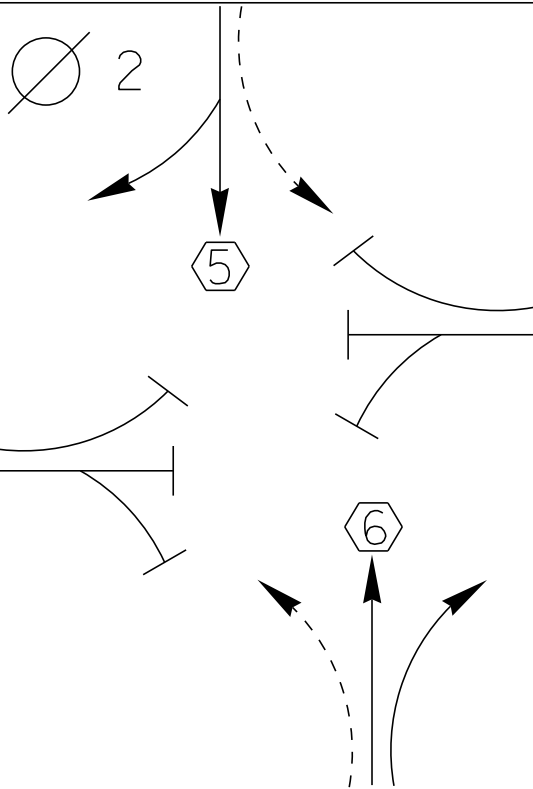
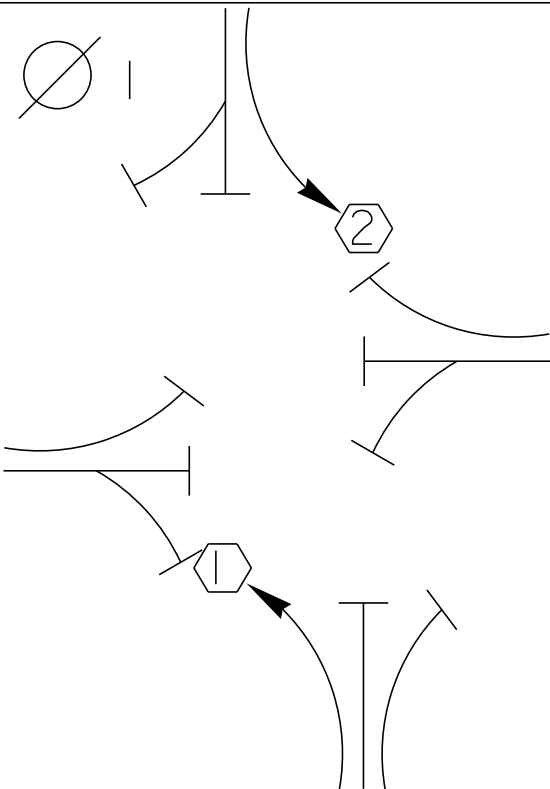
11'

ONLY

US 2 EAST

NOT TO SCALE

D
I
A
G
R
A
M



T
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N
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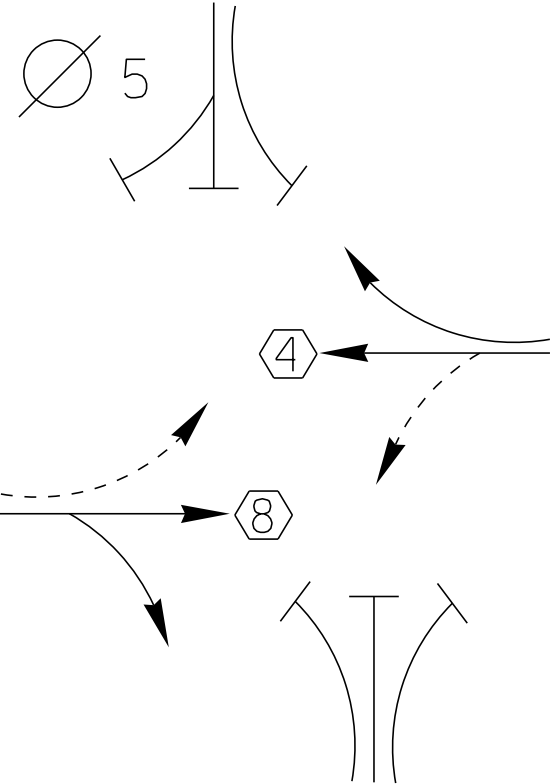
G =
Y =

G =
Y =

G =
Y =

G =
Y =

D
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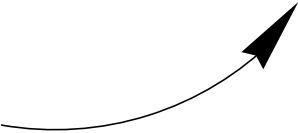
T
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N
G

G =
Y =

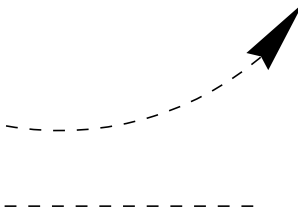
G =
Y =

G =
Y =

G =
Y =



PROTECTED
TURNS



PERMITTED
TURNS
PEDESTRIAN

CYCLE LENGTH, C= _____ S



PROPERTY OF Vt. AGENCY OF TRANS.
MAINTENANCE DIV.
IN EMERGENCY CALL:
800-777-7777
800-777-7777
800-777-7777

PROPERTY OF :
**VT. AGENCY OF TRANS.
MAINTENANCE DIV.**

IN EMERGENCY CALL :

DIST. TRANS. OFFICE 655-1580
NIGHTS & WEEKENDS : 878-7111

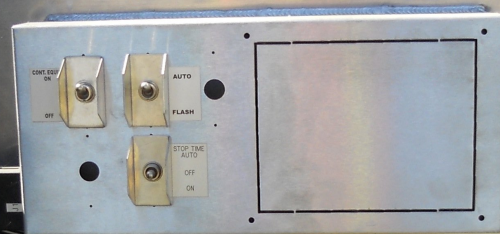
INTERSECTION NO. MS-581

DANGER

115 VOLTS A.C.

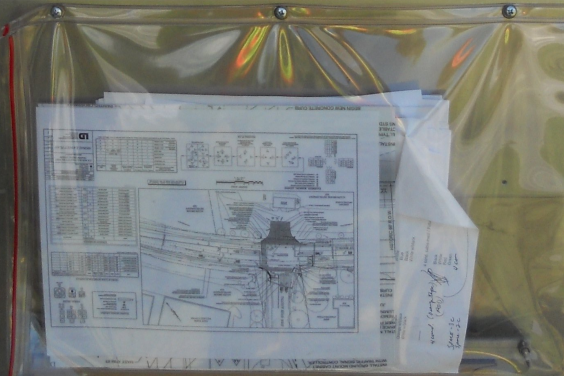
WARNING

DO NOT OPERATE
CABINET WITHOUT
CMU / MMU



ECONOLITE

CABINET
START-11/29/07



 **ECONOLITE**
CONTROL PRODUCTS, INC.

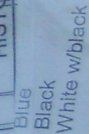
MODEL No. 11488

PRINT No. 73432

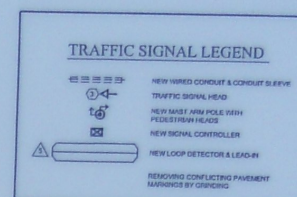
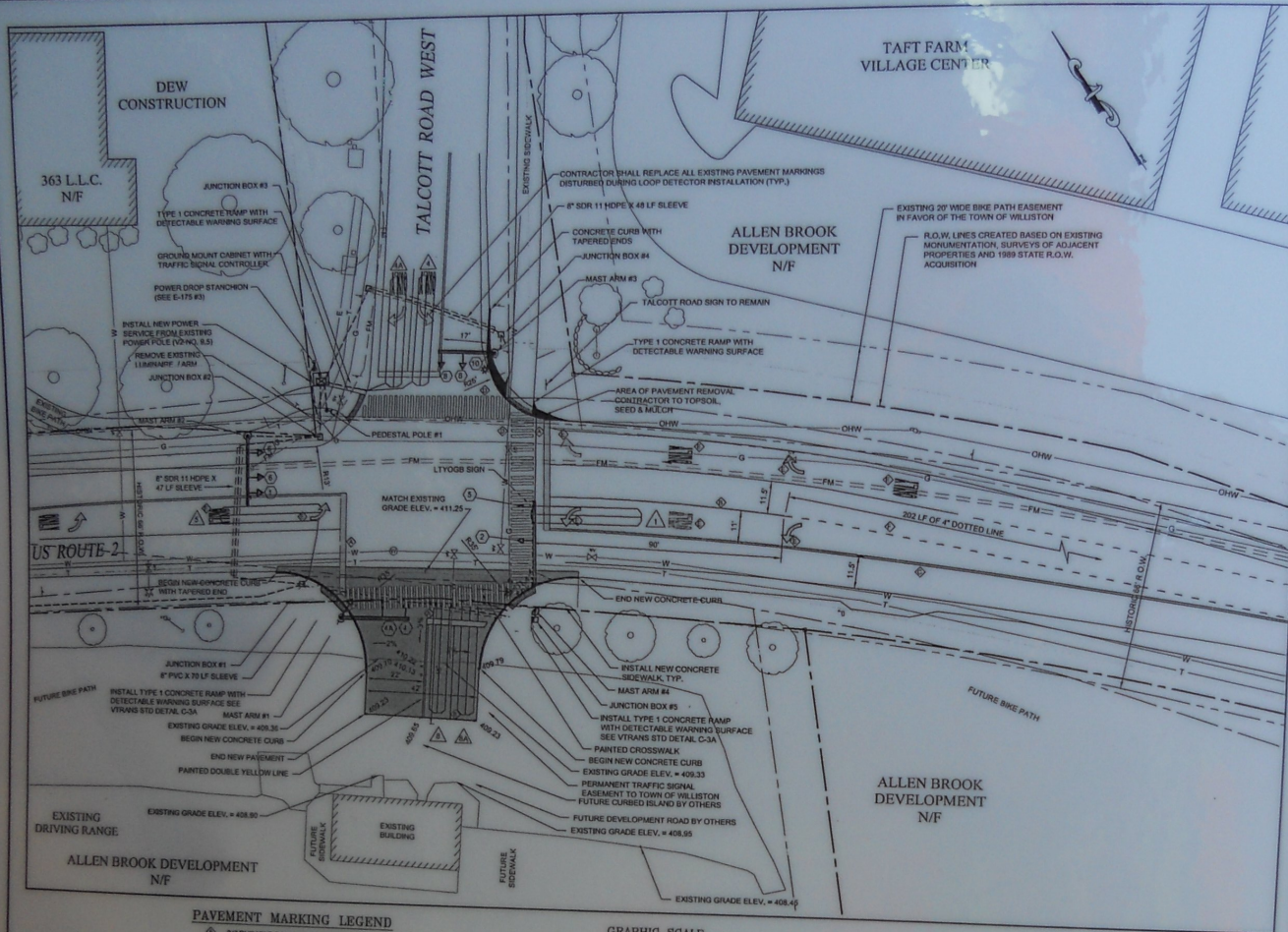
S.O. 67-2767-001

CABINET
START- 11/29/07

SA-AS-



4 cond. (Orange tape) 4 cond. cable mast / Future



VEHICLE LOOP DETECTOR SCHEDULE

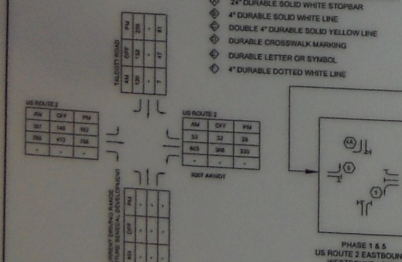
LANE	LOOP #	SIZE	TYPE	# OF TURNS	CALL PHASE	MODE	INDUCTANCE (μH)	RESISTANCE (ohms)	LEADAGE TO GROUND (ohms)
US ROUTE 2 WB LEFT	1	8' x 40'	LONG	2	1	PRES.	373	1.91	
TALCOTT ROAD THRU/RT	2	8' x 40'	LONG	2	4	PRES.	348	0.89	
TALCOTT ROAD RT	3	8' x 40'	LONG	2	4	PRES.	348	0.89	
US ROUTE 2 EB LEFT	4	8' x 40'	LONG	2	5	PRES.	384	0.90	
DRIVING RANGE NB/HT	5	8' x 40'	LONG	2	8	PRES.	383	1.13	
DRIVING RANGE NB/HT	6	8' x 40'	LONG	2	8	PRES.	381	1.11	

* DELAY ON RIGHT TURN LANE

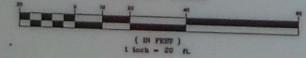
CONDUIT SCHEDULE

FROM	TO	WIRED CONDUIT	DESCRIPTION
CONTROLLER CABINET	MAST ARM #2	(2) 1"	SIGNAL WIRING & LIGHTING WIRING
CONTROLLER CABINET	JUNCTION BOX #2	2"	LOOP DETECTOR WIRING
CONTROLLER CABINET	JUNCTION BOX #2	(2) 2"	SIGNAL WIRING & LIGHTING WIRING
CONTROLLER CABINET	JUNCTION BOX #2	2"	INTERCONNECT WIRING
CONTROLLER CABINET	EXISTING POWER POLE (VZ NO. 0.5)	12"	POWER SERVICE
CONTROLLER CABINET	JUNCTION BOX #3	(2) 1"	SIGNAL WIRING & LIGHTING WIRING
CONTROLLER CABINET	JUNCTION BOX #3	1"	LOOP DETECTOR WIRING
JUNCTION BOX #2	JUNCTION BOX #1	(2) 54"	SIGNAL WIRING, LIGHTING WIRING, INTERCONNECT WIRING
JUNCTION BOX #2	JUNCTION BOX #1	54"	LOOP DETECTOR WIRING
JUNCTION BOX #1	MAST ARM #1	(2) 19"	SIGNAL WIRING & LIGHTING WIRING
JUNCTION BOX #1	JUNCTION BOX #5	78"	LOOP DETECTOR WIRING
JUNCTION BOX #5	MAST ARM #4	(2) 78"	SIGNAL WIRING & LIGHTING WIRING
JUNCTION BOX #3	JUNCTION BOX #4	(2) 88"	SIGNAL WIRING & LIGHTING WIRING
JUNCTION BOX #3	JUNCTION BOX #4	88"	LOOP DETECTOR WIRING
JUNCTION BOX #4	MAST ARM #3	(2) 12"	SIGNAL WIRING & LIGHTING WIRING

PAVEMENT MARKING LEGEND

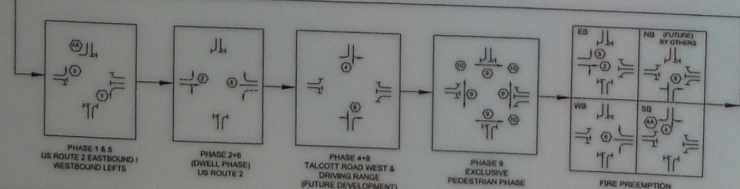


GRAPHIC SCALE



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

PHASING PLAN



PROGRAM CONTROLLER FOR	PHASE 1, 5 & 4A	PHASE 2 & 6	PHASE 4 & 8	PHASE 9	FIRE PREEMPTION
SEMI-ACTUATED OPERATION	US ROUTE 2 EB/WB LEFTS	US ROUTE 2	TALCOTT ROAD & DRIVING RANGE	PEDESTRIAN PHASE	
WB EXTENSION	2	2	2		
RT TURN DELAY	-	5	5		
MIN. GREEN	6	10	7		
YELLOW CLEAR	4	4	4		
RED CLEAR	2	2	2		
AM PEAK (6:00-10:00 a.m.)	MAX. 1 GREEN	7	43	18	13
OFF PEAK	MAX. 2 GREEN	7	40	23	13
PM PEAK (2:30-7:00 p.m.)	MAX. 3 GREEN	7	46	25	13

NOTE: THERE SHALL BE NO SCHEDULED FLASHING TIME PERIOD. THE SIGNAL SHALL RUN ON OFF PEAK TIMINGS AT NIGHT.

DATE	REVISIONS	BY
5-18-07	REVISED MAST ARM POLE 2 & 3 LOCATIONS	JLC
6-07-07	ADDED SPOT GRADIES & PEDESTRIAN TIMINGS	JLC

THESE PLANS WITH LATEST REVISIONS, SHOULD ONLY BE USED FOR THE PURPOSES AND DATES SHOWN.

☐ SKETCH/CONCEPT
☐ PRELIMINARY
☒ FINAL - 4/28/07
☐ REVISED DRAWING

U.S. ROUTE 2 / TALCOTT RD. WEST
TRAFFIC SIGNAL DESIGN
WILLISTON, VERMONT

SIGNAL LAYOUT PLAN





BUS INTERFACE UNIT

POWER ON
TRANSMIT
VALID DATA

B.I.U.
DETECTOR
#1

LMD622t

DET FLT

CH1

MODE

FREQ

SENS

DET FLT

CH2

MODE

FREQ

SENS

DET FLT

ECONOLITE

LMD622t

DET FLT

CH1

MODE

FREQ

SENS

DET FLT

CH2

MODE

FREQ

SENS

DET FLT

ECONOLITE

LMD622t

DET FLT

CH1

MODE

FREQ

SENS

DET FLT

CH2

MODE

FREQ

SENS

DET FLT

ECONOLITE

DET. SW. MODULE

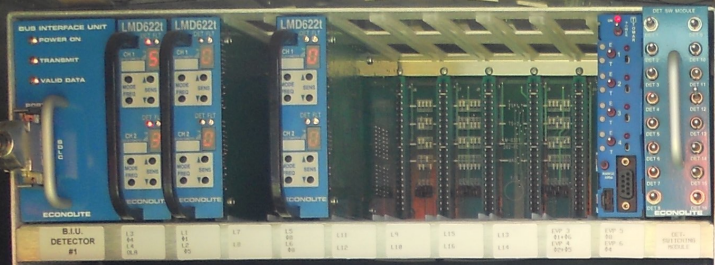
DET 1
DET 2
DET 3
DET 4
DET 5
DET 6
DET 7
DET 8
DET 9
DET 10
DET 11
DET 12
DET 13
DET 14
DET 15
DET 16

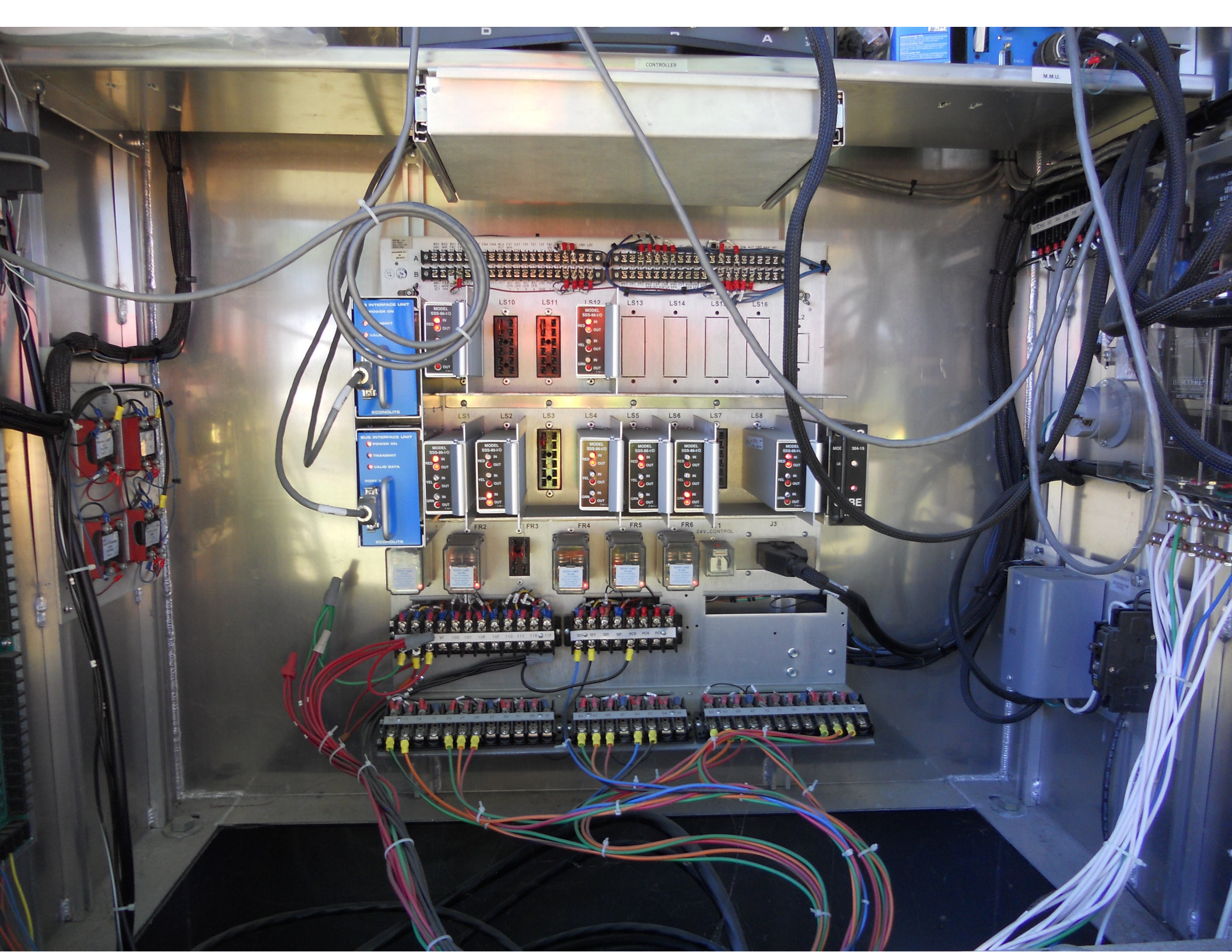
ECONOLITE

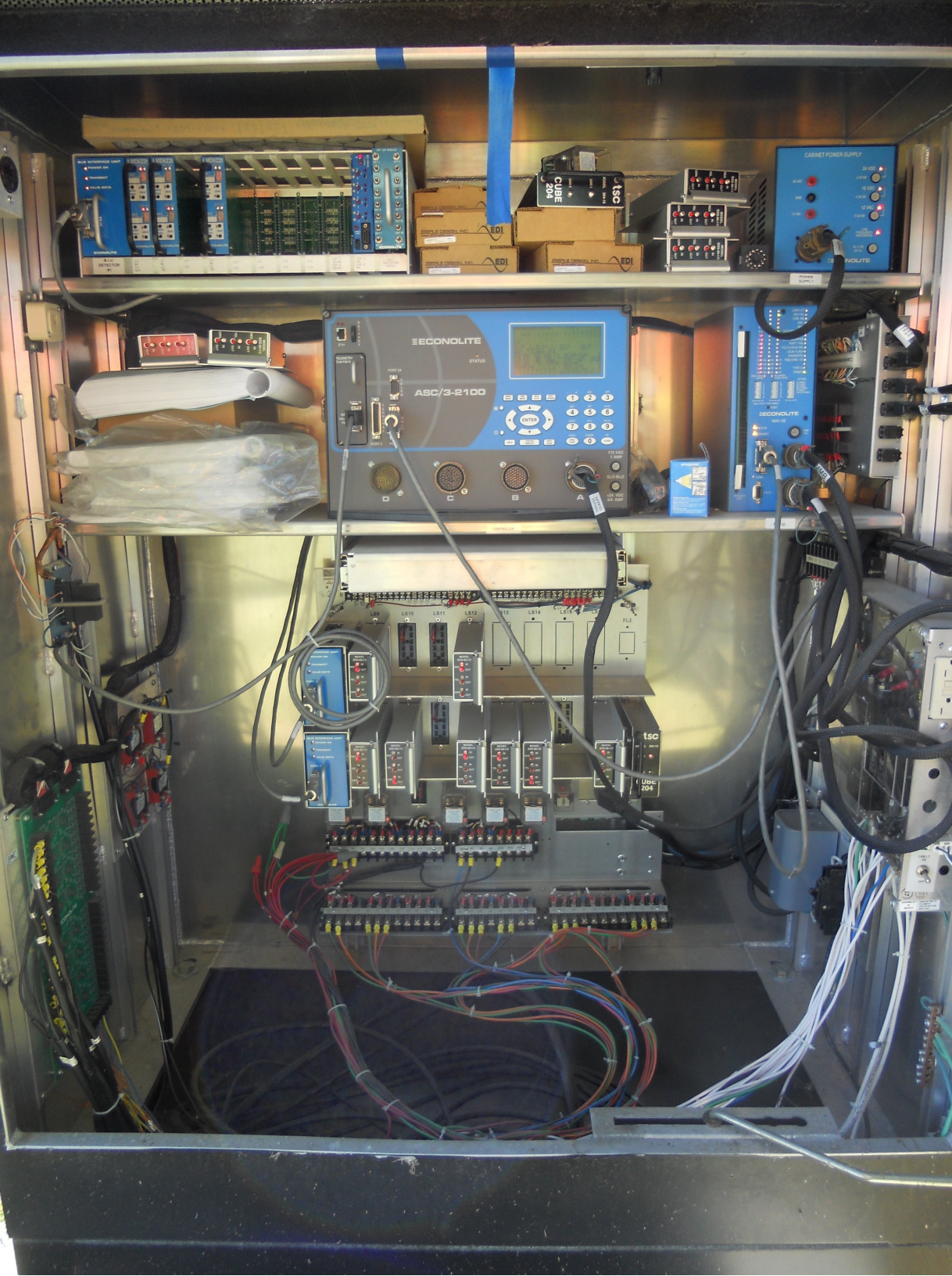
DET. SWITCHING
MODULE

MODEL
SSS-86-10
RED IN
RED OUT
YEL IN
YEL OUT
GRN IN
GRN OUT

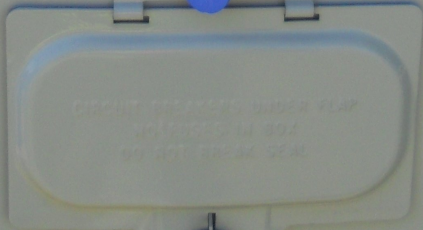
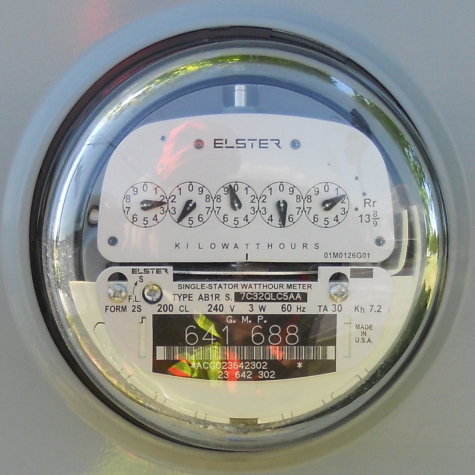
DATA







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 PERSONAL AUTORIZADO DE LA COMPAÑIA
ELECTRICA PUEDE MANTENERLO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA



DANGER / PELIGRO
HAZARD OF ELECTRICAL SHOCK OR BURN
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PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SERVICIO PERSONAL AUTORIZADO DE LA COMPAÑIA
ELECTRICA PUEDE MANTENERLO
NO PINTES ENCIMA NI REMUEVA ESTA ETIQUETA











12.5IN DIA / 20.5FT
55KSI / 5 GA
11IN DIA / 35FT / 7 GA
J092009











11 IN DIA / 32 FT
55 KSI / TGA
6 IN DIA / 20 FT / TGA











ONLY

ONLY

















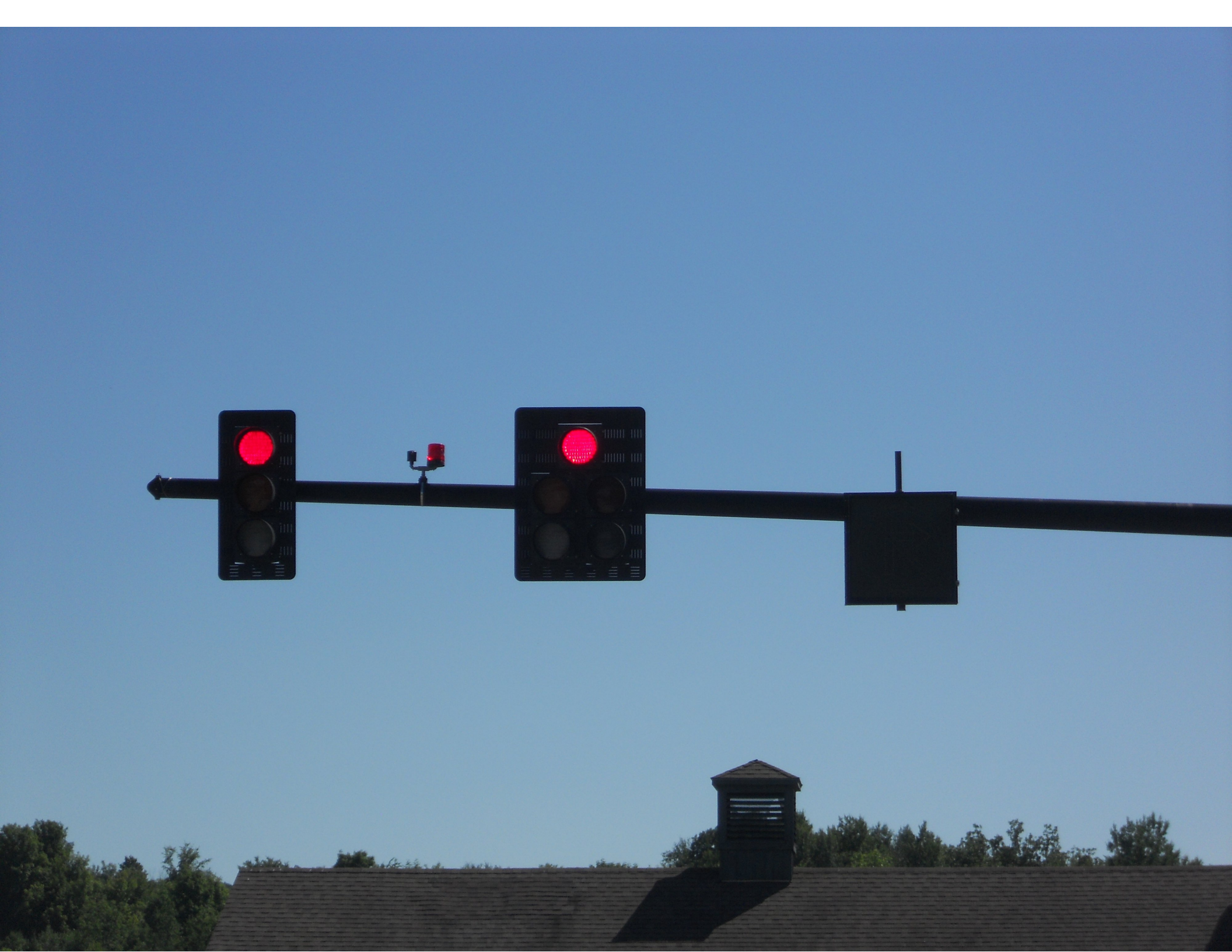




2011 / 2011 /
KSI / / CMA
PBF / CMA
CMA









TALCOTT RD













12.5 IN DIA / 32 FT
55 KSI / 56 K
11 IN DIA / 35 FT / 16 K

Intersection: MS 581 US-2 & Talcott Road

1

Date: 08/10/2012

Timing Data:

Phase	1	2	3	4	5	6	7	8	9
Phases in use	x	x		x	x	x		x	x
Min Green	6	10	0	7	6	10	5	7	1
Walk	0	0	0	0	0	0	0	0	4
Ped Clr	0	0	0	0	0	0	0	0	18
Veh Ext	2	2	0	2	2	2	0	2	0
MAX 1	7	43	0	16	7	43	0	16	22
MAX 2	7	46	0	23	7	46	0	23	22
MAX 3	7	40	0	25	7	40	0	25	22
Yellow	4	4	0	4	4	4	0	4	0
All Red	2	2	0	2	2	2	0	2	2
Recall to Max	0	0	0	0	0	0	0	0	0

Coordination Patterns:

ACS3/Naztec

Cordinated Phases 2 & 6

Pattern 1

Cycle Length	84	Offset	64	COS	111			
Splits	Ph 1		Ph 2		Ph 3		Ph 4	
	Ph 5		Ph 6		Ph 7		Ph 8	
	Ph 9		Ph 10		Ph 11		Ph 12	

Pattern 2(21)

Cycle Length	0	Offset	0	COS	121			
Splits	Ph 1		Ph 2		Ph 3		Ph 4	
	Ph 5		Ph 6		Ph 7		Ph 8	
	Ph 9		Ph 10		Ph 11		Ph 12	

Pattern 3

Cycle Length	0	Offset	0	COS	131			
Splits	Ph 1		Ph 2		Ph 3		Ph 4	
	Ph 5		Ph 6		Ph 7		Ph 8	
	Ph 9		Ph 10		Ph 11		Ph 12	

Day Plan [1]

Event	Action Plan	Step Begins
1	1	0600
2	2	1000
3	3	1430
4	2	1900

Day Plan [2]

Event	Action Plan	Step Begins

Day Plan [3]

Event	Action Plan	Step Begins

Action Plan

Action Plan	Pattern
1	1
2	2
3	3