

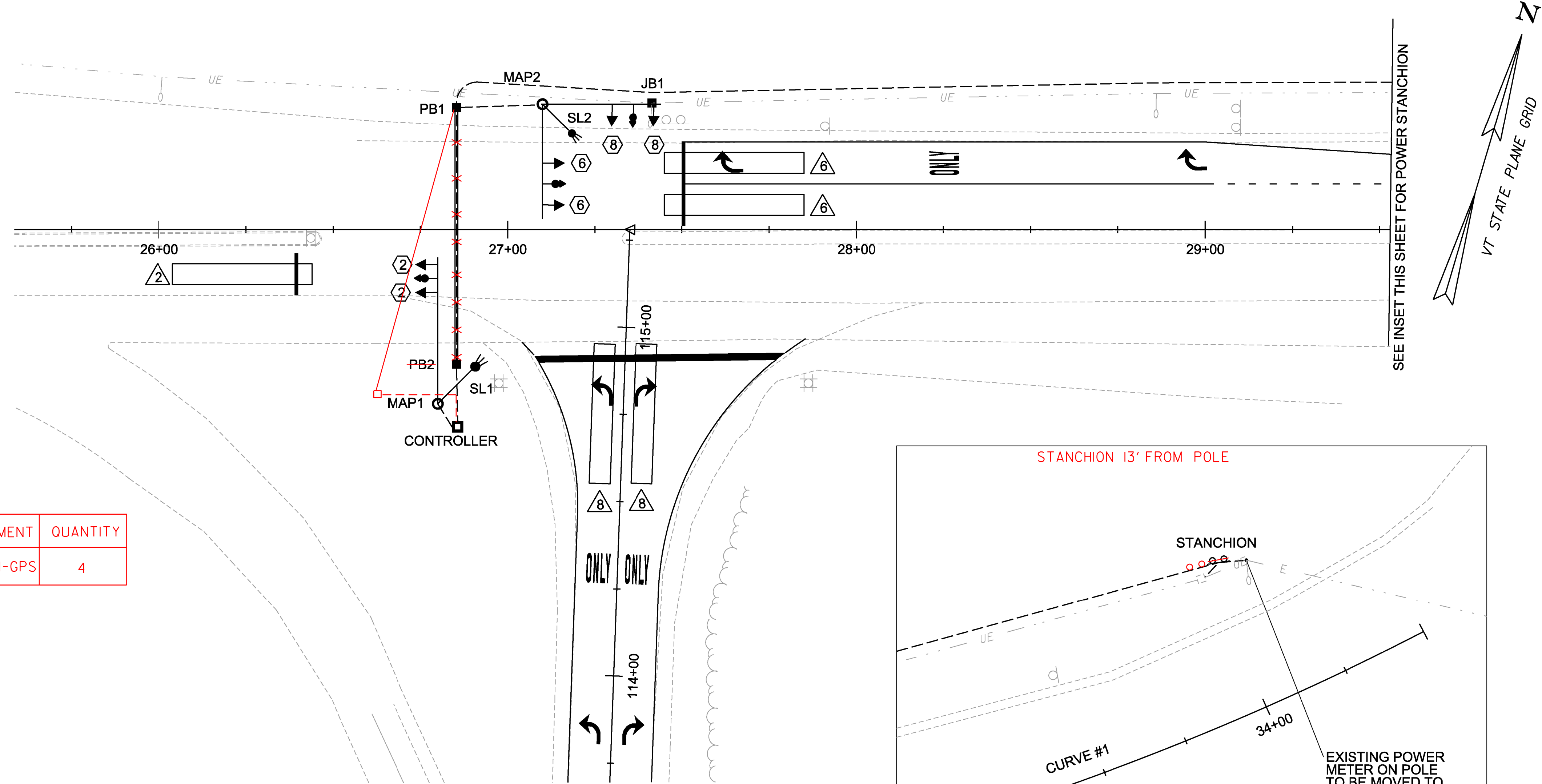
TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION
(MS 637: VT 100 & I-89 NB OFF-RAMP)

- MAST ARM POLE
STA 26+80, 50' RT
STA 27+10, 36' LT
- CABINET/CONTROLLER
STA 26+86, 56' RT STA 26+88, 57' RT
- POWER STANCHION
STA 34+04, 43' LT STA 34+01, 43' LT
- PULL BOX, STANDARD
STA 26+85, 35' LT STA 26+86 LT, 35' LT
STA 26+85, 39' RT STA 26+64 RT, 46' RT
STA 30+50, 44' LT STA 30+47 LT, 44' LT
- JUNCTION BOX
STA 27+41, 36' LT
- BRACKET ARM
STA 26+80 - 16' (SL1)
STA 27+10 - 12' (SL2)
- SPECIAL PROVISION (LUMINAIRE, LED)
STA 26+80 (MAP1)
STA 27+10 (MAP2)
- SPECIAL PROVISION (REMOVE EXISTING LIGHT POLE)
STA 27+41, 36' LT
- SPECIAL PROVISION (HORIZONTAL DIRECTIONAL DRILLING) (12" CASING PIPE)
STA 26+85 LT - STA 26+85 RT STA 26+86 LT - 26+64 RT

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.15 (MS-637: VT 100 & I-89 EXIT 10 NB OFF-RAMP)	QUANTITY	ADDITIONAL EQUIPMENT	QUANTITY
POWER METER ON STANCHION	1	ELTECH TIMESYNC I-GPS	4
FOUR-BAY BREAKER PANEL ON STANCHION	1		
ECONOLITE ASC/3-2100 TRAFFIC SIGNAL CONTROLLER (NEMA TS2)	1		
NEMA "P44" BASE MOUNTED CONTROLLER CABINET WITH 15-INCH EXTENDED BASE ON A CONCRETE FOUNDATION, PAINTED FLAT BLACK WITH ANCILLARY CONTROL EQUIPMENT	1		
FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 42 FOOT MAST ARM (MAP1)	1		
FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 34 FOOT MAST ARM AND 31 FOOT MAST ARM (MAP2)	1		
ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5" LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	6		
ASTRO-BRACKETS	6		
BI-DIRECTIONAL WIRELESS INTERCONNECT ANTENNA	1		
WIRELESS INTERCONNECT PROCESSOR CARD	1		
CAMERA EXTENSION BRACKET	3		
CAMERA ASSEMBLY	3		
VIDEO DETECTION PROCESSOR CARD	3		

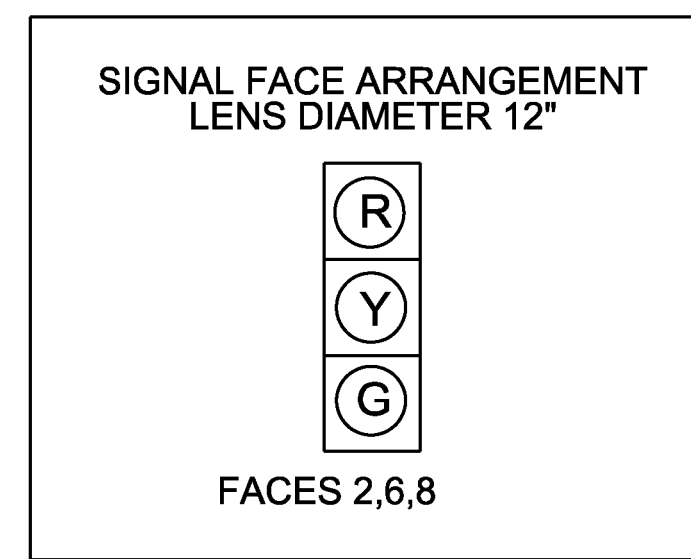
EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
		CONDUIT
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE
		STANCHION
		PREEMPTION STROBE
		OPTICAL PREEMPTION DETECTOR



SEE CORRIDOR COORDINATION SHEET FOR CONTROLLER TIMING DATA

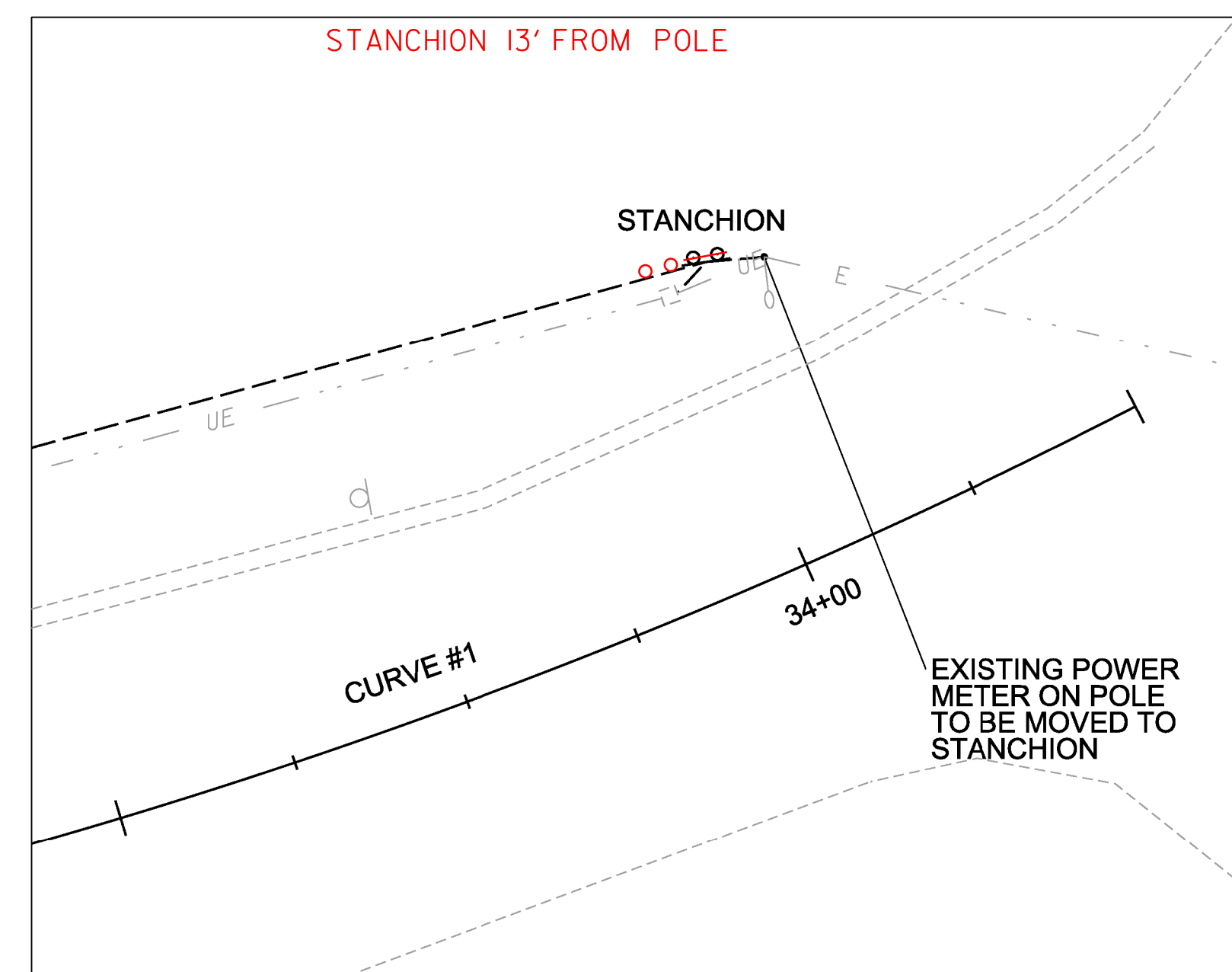
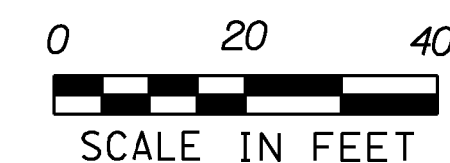
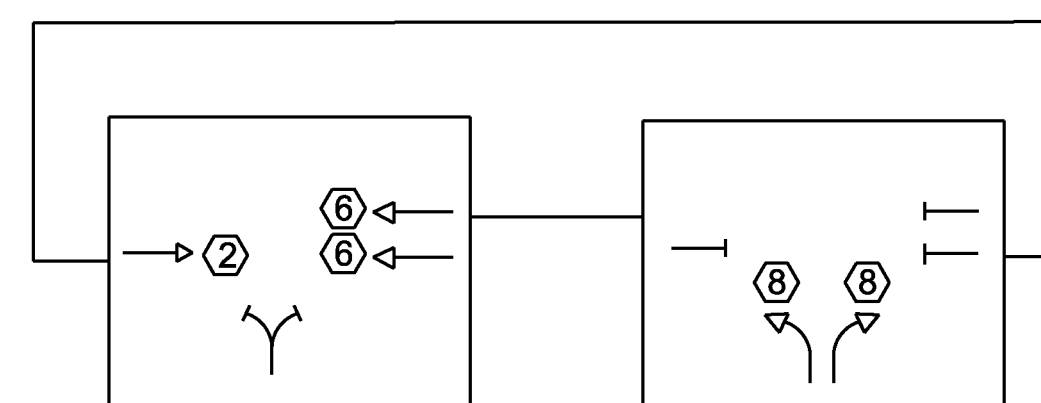
678.23 - WIRED CONDUIT	CONDUIT SIZE		DESCRIPTION
	2"	4"	
POWER TO STANCHION	22'		*POWER
STANCHION TO EPB1	16'		**POWER
STANCHION TO PB3	345'		POWER
PB3 TO PB1	376'		POWER
PB1 TO PB2	80'		POWER
PB2 TO CONTROLLER	24'		POWER
CONTROLLER TO MAP1	15'		SIGNAL/LIGHTING
CONTROLLER TO MAP1	15'		VIDEO
CONTROLLER TO MAP1	15'		FUTURE USE
CONTROLLER TO PB2	24'		SIGNAL/LIGHTING
CONTROLLER TO PB2	24'		VIDEO
CONTROLLER TO PB2	24'		FUTURE USE
PB2 TO PB1	80'		SIGNAL/LIGHTING
PB2 TO PB1	80'		VIDEO
PB2 TO PB1	80'		FUTURE USE
PB1 TO MAP2	31'		SIGNAL/LIGHTING
PB1 TO MAP2	31'		VIDEO
PB1 TO MAP2	31'		FUTURE USE
SUBTOTALS	1313'		
ROUNDING	17'		
TOTALS	1330'	1475.75'	

* CONDUIT QUANTITY INCLUDES PVC RUN ON UTILITY POLE #1
** FOR EXISTING STREET LIGHTING



ALL HEADS TO BE LED'S

PHASING DIAGRAM



INSET: POWER DROP DETAILS AT BLUSH HILL ROAD INTERSECTION

AM	OFF	PM	AM	OFF	PM
495	601	697	202	212	253
			525	495	606

VT ROUTE 100 &
I-89 NB EXIT 10 OFF RAMP
2013 DESIGN HOURLY
VOLUMES

PROJECT NAME: WATERBURY
PROJECT NUMBER: NHG SGNL(43 101/100)

FILE NAME: t13b018tr.dgn PLOT DATE: 12/31/2013
PROJECT LEADER: P. COBURN DRAWN BY: I. DEGUTIS
DESIGNED BY: I. DEGUTIS CHECKED BY: M. LACROIX
TRAFFIC SIGNAL LAYOUT SHEET NB RAMP SHEET 9 OF 17

SEE INSET THIS SHEET FOR POWER STANCHION