

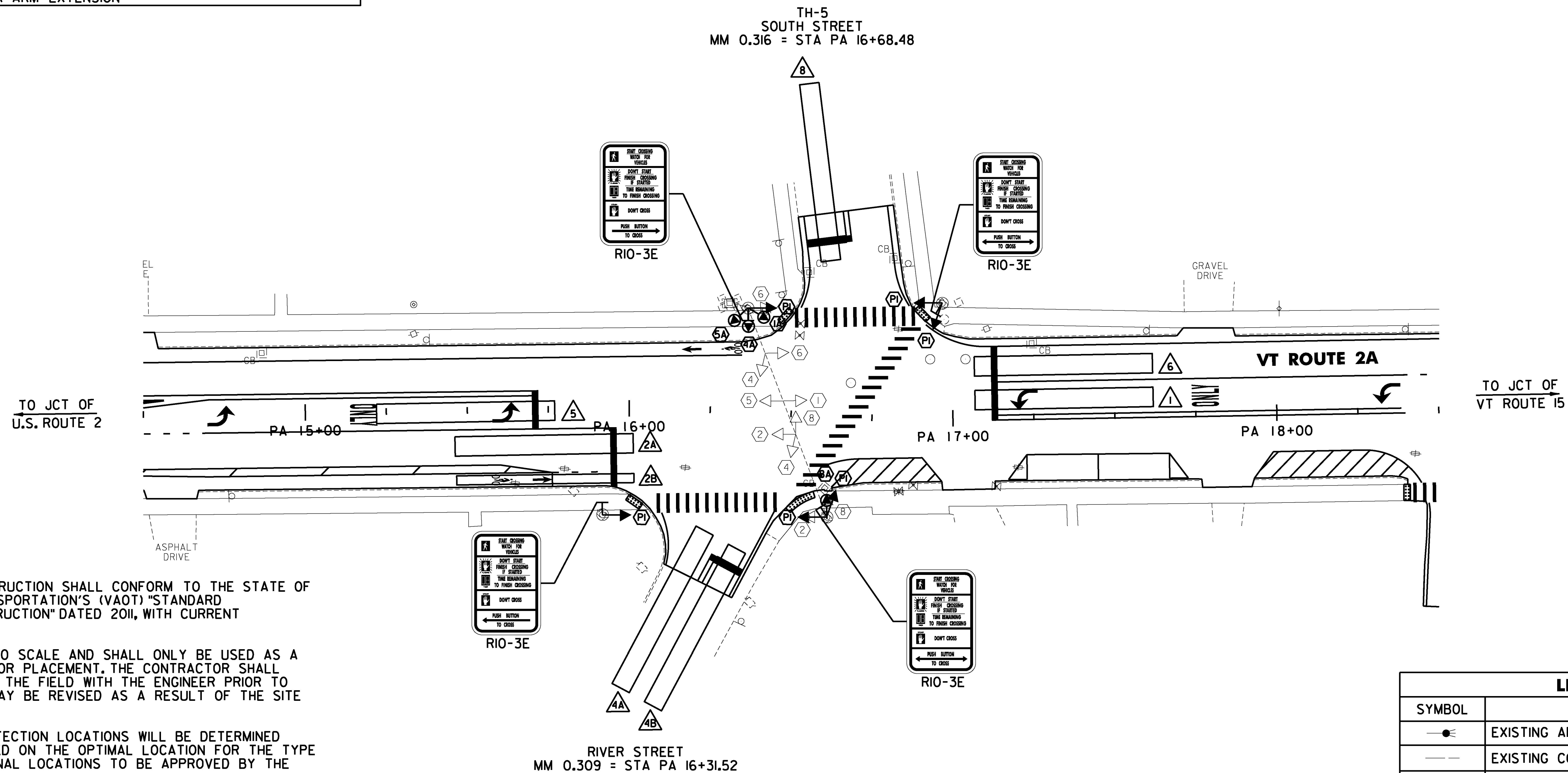
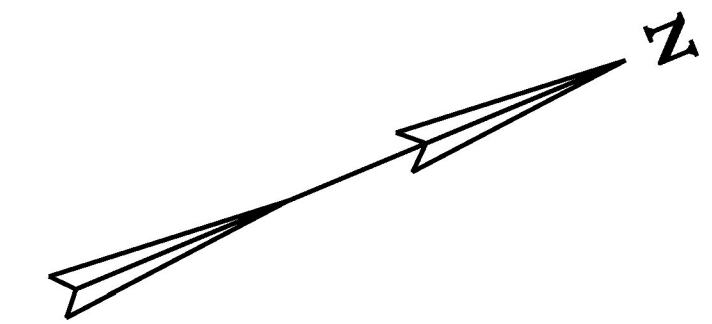
ITEM 900.620 SPECIAL PROVISION (VEHICLE STOP BAR DETECTION SYSTEM) (VT RT 2A @ TH 5)		
QUANTITY	UNIT	DESCRIPTION
4	EA	DETECTOR ASSEMBLY
1	EA	ADJUST HEIGHT OF CABINET RACK (AS NECESSARY)
250	LF	DETECTOR CABLE
4	EA	DETECTOR MOUNTING BRACKET
4	EA	DETECTOR ARM EXTENSION

ITEM 900.620 SPECIAL PROVISION (MODIFY EXISTING PEDESTRIAN SIGNAL SYSTEM, INTERSECTION) (VT RT 2A @ TH 5)			
DESCRIPTION		QUANTITY	UNIT
16"x18" LED PEDESTRIAN HEAD WITH VISOR & MOUNTING	POST TOP MOUNT	3	EA
HARDWARE (HAND/MAN SYMBOLS WITH COUNTDOWN TIMER)	SIDE MOUNT	3	EA
ACCESSIBLE PEDESTRIAN SIGNAL WITH SIGN AND PUSH BUTTON		4	EA

PEDESTRIAN SIGNAL HEADS



FACE PI



NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S (VAOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" DATED 2011, WITH CURRENT MODIFICATIONS.
- THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR VEHICLE DETECTOR PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THE SITE SURVEY.
- THE ACTUAL STOP BAR DETECTION LOCATIONS WILL BE DETERMINED DURING CONSTRUCTION BASED ON THE OPTIMAL LOCATION FOR THE TYPE OF DETECTOR SELECTED. FINAL LOCATIONS TO BE APPROVED BY THE ENGINEER.
- DETECTION AREAS SHALL EXTEND FIVE FEET PAST THE STOP BAR. ACTUAL DETECTION ZONES SHALL BE SET UP FOR OPTIMAL DETECTION BY THE CONTRACTOR BASED ON THE FINAL PAVEMENT MARKINGS.
- DETECTION AREAS 1, 2A, 2B, 4A, 4B, 5, 6, AND 8 ARE IN NON-LOCK PRESENCE MODE. DETECTION AREA 4A SHALL BE PROVIDED FOR THE PM PEAK HOUR WHEN RIVER STREET IS ONE-WAY OUT ONLY.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE CONDUIT AND CONTROLLER FOR DETECTION CABLE AND EQUIPMENT. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF SUFFICIENT SPACE IS NOT AVAILABLE. CONTACT RICK JONES, PUBLIC WORKS SUPERINTENDENT, AT 802-878-6944 TO CONDUCT FIELD VERIFICATION. IF ADDITIONAL CONDUIT INSTALLATION IS REQUIRED, ALL WORK ASSOCIATED WITH INSTALLATION WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.620 SPECIAL PROVISION (VEHICLE STOP BAR DETECTION SYSTEM) (VT RT 2A @ TH 5). MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH SECTION 678.
- ALL SIGNAL EQUIPMENT SHALL HAVE SAFETY CABLES.
- ALL ELECTRICAL WIRING SHALL BE PERFORMED BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.
- A UNIFORMED TRAFFIC OFFICER WITH A BLUE LIGHT SHALL BE PRESENT DURING ALL LANE CLOSURES.

- DISCONNECT WIRING TO EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS. THE EXISTING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS, AND SIGNS SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF ESSEX JUNCTION PUBLIC WORKS GARAGE AT 11 JACKSON STREET, CONTACT RICK JONES, PUBLIC WORKS SUPERINTENDENT, AT 802-878-6944. THE PROPOSED PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS, AND SIGNS SHALL BE INSTALLED ON EXISTING POLES. EXISTING WIRING SHALL BE CONNECTED TO THE NEW PEDESTRIAN SIGNALS AND PUSH BUTTONS.
- STOP BAR DETECTION SHALL BE PROVIDED WITH ECONOLITE VIDEO DETECTORS. THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE TO ENSURE COMPATIBILITY WITH EXISTING VIDEO DETECTION EQUIPMENT.
- STOP BAR DETECTION SYSTEM TO BE OPERATIONAL PRIOR TO CUTTING LOOPS. EXISTING VEHICLE DETECTOR LOOPS TO BE CUT AT THE CURB LINE PRIOR TO COLD PLANING/RESURFACING AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT ITEM 900.620 SPECIAL PROVISION (VEHICLE STOP BAR DETECTION SYSTEM) (VT RT 2A @ TH 5).
- SIGNAL TIMING SHALL BE MODIFIED TO ACCOMMODATE THE FULLY ACTUATED DETECTION LAYOUT SHOWN ON THE PLANS. ALL WORK ASSOCIATED WITH THE MODIFICATION WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT ITEM 900.620 SPECIAL PROVISION (VEHICLE STOP BAR DETECTION SYSTEM) (VT RT 2A @ TH 5).

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING ANTENNA & PREEMPTION LIGHT
	EXISTING CONDUIT
	PROPOSED CONDUIT
	EXISTING JUNCTION BOX
	EXISTING CONTROLLER CABINET
	EXISTING SIGNAL POLE
	PROPOSED SIGNAL POLE
	PROPOSED VEHICLE DETECTION AREA
	PROPOSED VEHICLE DETECTOR
	EXISTING SIGNAL
	PROPOSED SIGNAL

NOT TO SCALE



PROJECT NAME: ESSEX JUNCTION
PROJECT NUMBER: STP 2956(I)

FILE NAME: z14v25bdrf+sp.dgn
PROJECT LEADER: D.GOZALKOWSKI
DESIGNED BY: J. OLSEN
TRAFFIC SIGNAL PLANS SHEET 1

PLOT DATE: 4/28/2016
DRAWN BY: A. KIRBY
CHECKED BY: J. SHIELDS
SHEET 62 OF 171