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STANDARDS

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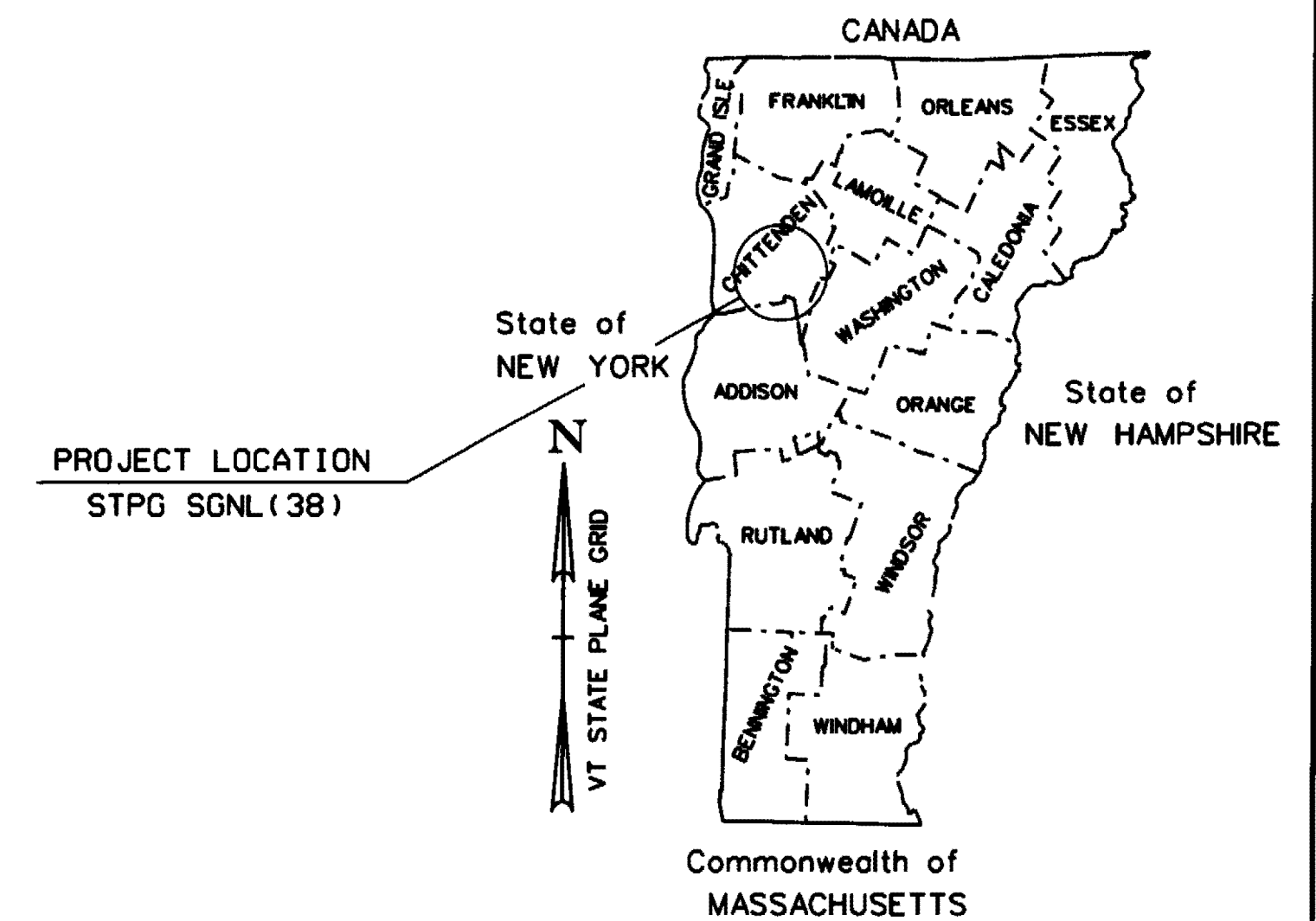
**STATE OF VERMONT
AGENCY OF TRANSPORTATION**



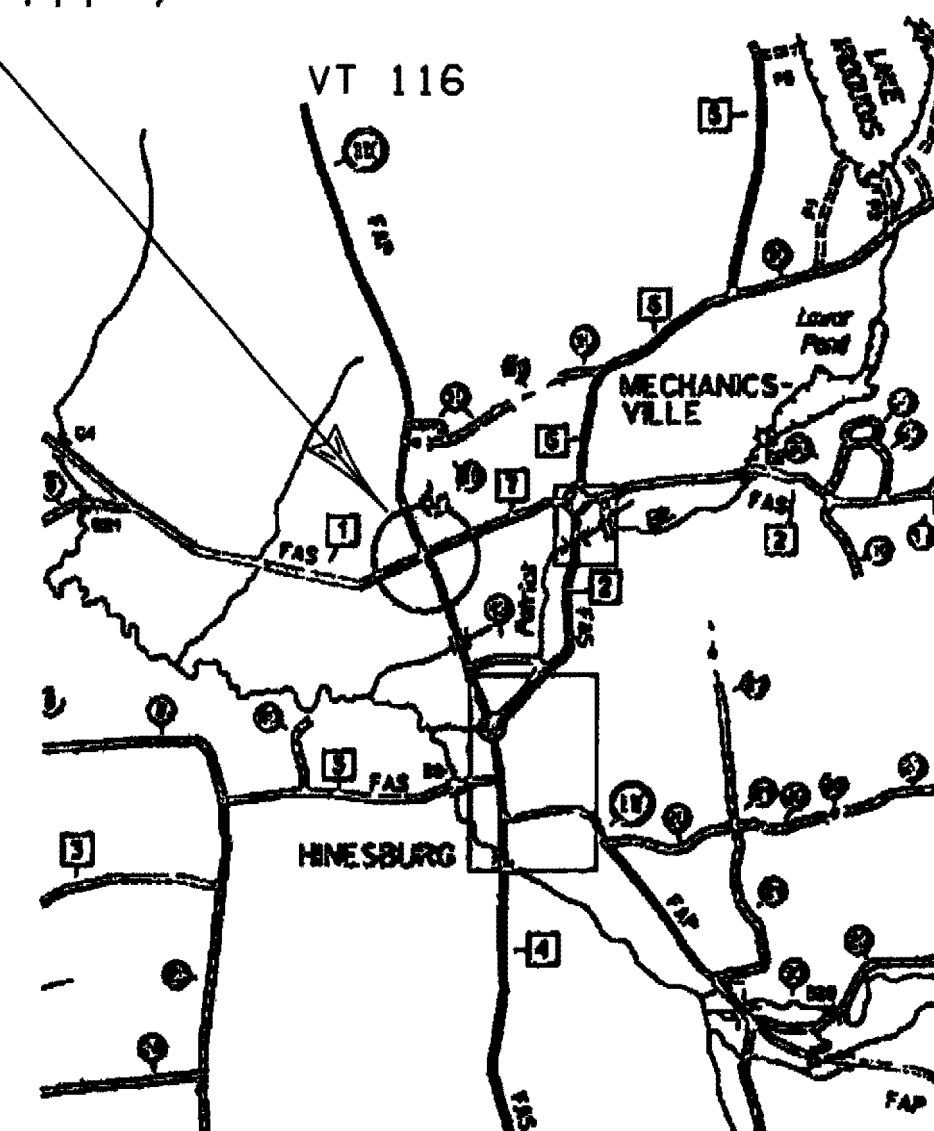
**PROPOSED IMPROVEMENT
TOWNS OF HINESBURG AND RICHMOND
COUNTY OF CHITTENDEN
INTERSECTION OF VT 116 & TH 1 & TH 7
INTERSECTION OF US 2 & TH 1 & TH 2**

TOWN OF HINESBURG, AT THE INTERSECTION OF VT ROUTE 116 (MM 5.46)/TH 1/TH 7. THIS PROJECT CONSISTS OF ADDING RADAR STOP BAR DETECTION AT AN EXISTING TRAFFIC SIGNAL.
TOWN OF RICHMOND, AT THE INTERSECTION OF US ROUTE 2 (MM 2.73)/TH 1/TH 2. THIS PROJECT CONSISTS OF ADDING VIDEO VEHICLE DETECTION AT AN EXISTING TRAFFIC SIGNAL.

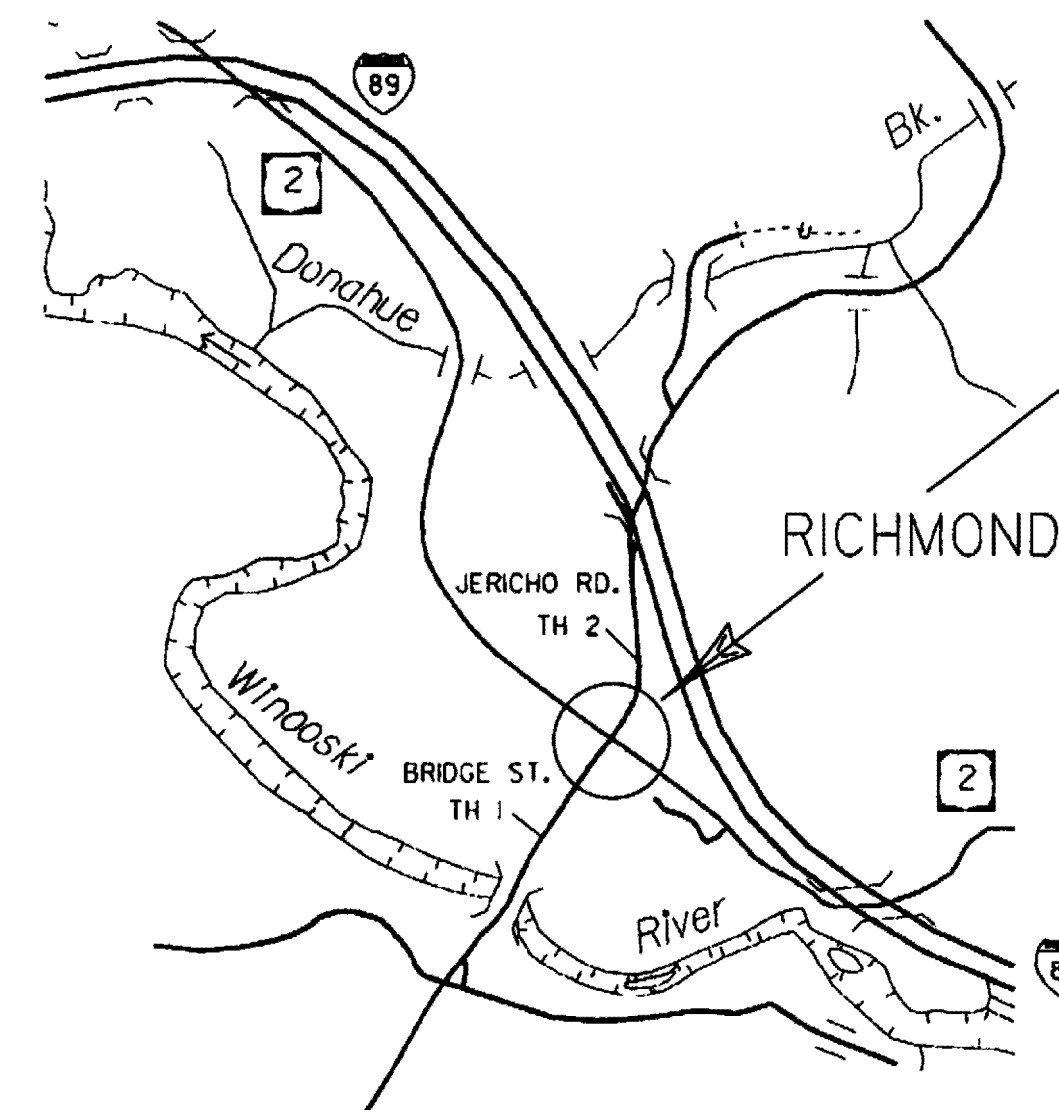
LENGTH OF ROADWAY - VT ROUTE 116	500 FT	.09 MILES
LENGTH OF ROADWAY - US ROUTE 2	500 FT	.09 MILES
TOTAL LENGTH OF ROADWAY	1000 FT	.18 MILES



VT ROUTE 116 / TH 1 / TH 7



N.T.S.



US ROUTE 2 / TH 1 / TH 2

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY	N/A
SURVEYED DATE	N/A
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

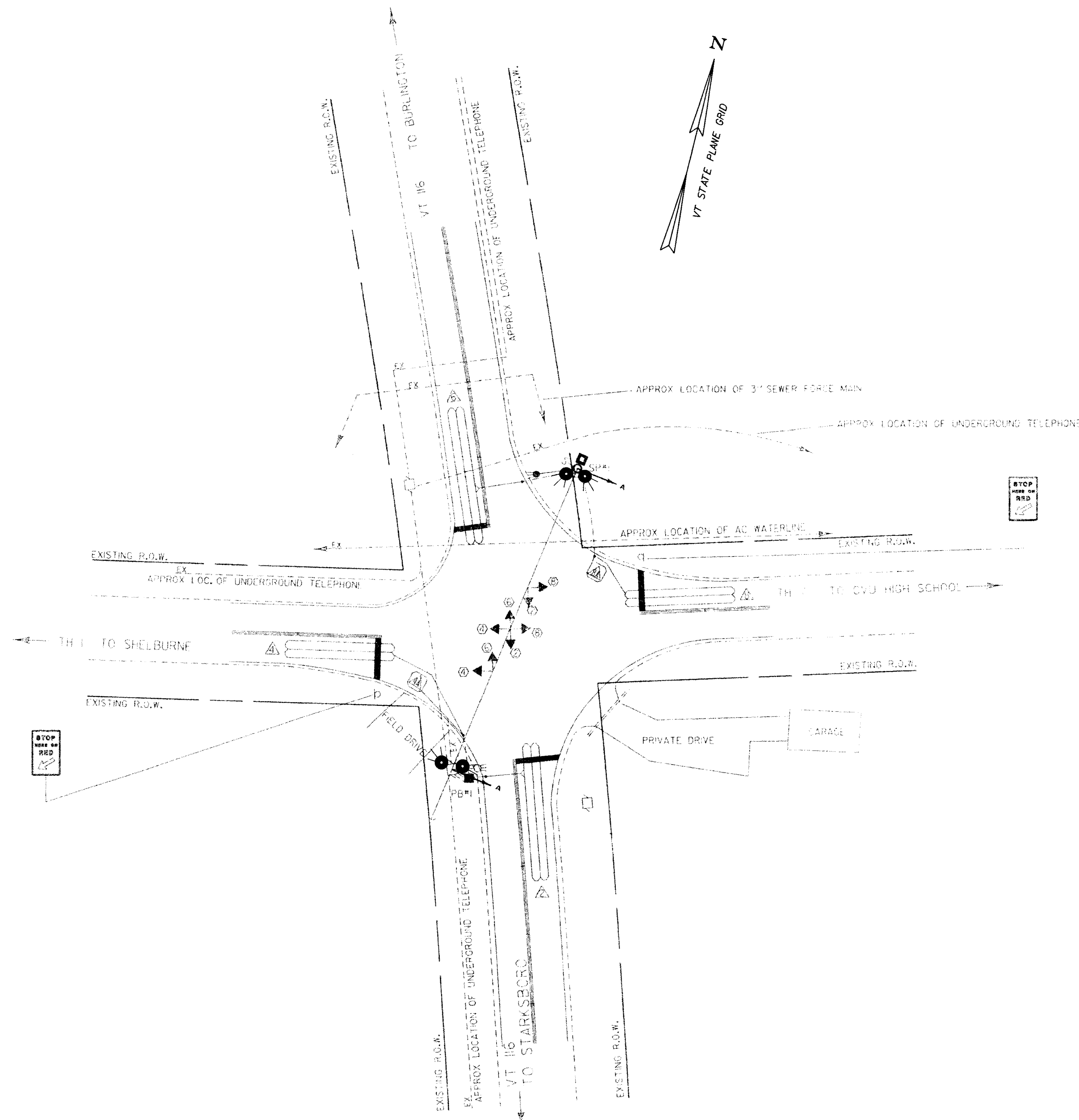


THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	DATE 1-18-11
PROJECT MANAGER • B. NYQUIST	
PROJECT NAME •	HINESBURG - RICHMOND
PROJECT NUMBER •	STPG SGNL (38)
SHEET 1 OF 4 SHEETS	

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES													TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
													ROADWAY	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
													1	1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A B 1)	204 22				
													40	40		HR	UNIFORMED TRAFFIC OFFICERS	630 10				
													40	40		HR	FLAGGERS	630 15				
													1	1		LS	MOBILIZATION/DEMOBILIZATION	635 11				
													1	1		LS	TRAFFIC CONTROL	641 10	-			
													1	1		EACH	SPECIAL PROVISION (RADAR STOP BAR DETECTION SYSTEM) (VT ROUTE 116 @ TH 1 AND TH 7)	900 620				
													1	1		EACH	SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (US ROUTE 2 @ TH 1 AND TH 2)	900 620				



NOTES:

- 1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
- 2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING.
- 3) ANY OTHER MISCELLANEOUS EQUIPMENT AND LABOR NECESSARY TO PROVIDE A FULLY FUNCTIONAL RADAR STOP BAR DETECTION SYSTEM SHALL BE INCIDENTAL TO ITEM • 900.620 SPECIAL PROVISION (RADAR STOP BAR DETECTION SYSTEM) (VT ROUTE 116 @ T.H. 1 AND T.H. 7).
- 4) RADAR STOP BAR DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
- 5) RADAR STOP BAR DETECTION AREAS SHALL EXTEND 5 FT PAST THE STOP BAR.
- 6) RADAR STOP BAR DETECTORS SHALL BE WAVETRONIX SMARTSENSOR MATRIX IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7) VEHICLE DETECTOR LOOPS TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS AND WIRING REMOVED BACK TO THE CABINET.
- 8) ALL EXISTING LOOP DETECTOR EQUIPMENT TO BE SALVAGED IS TO BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 5 GARAGE AT 5 BARNES AVE. IN COLCHESTER, VT WITHIN 48 HOURS OF REMOVAL. CONTACT STEVE GUYETTE AT 655-1580 WITH ANY QUESTIONS.

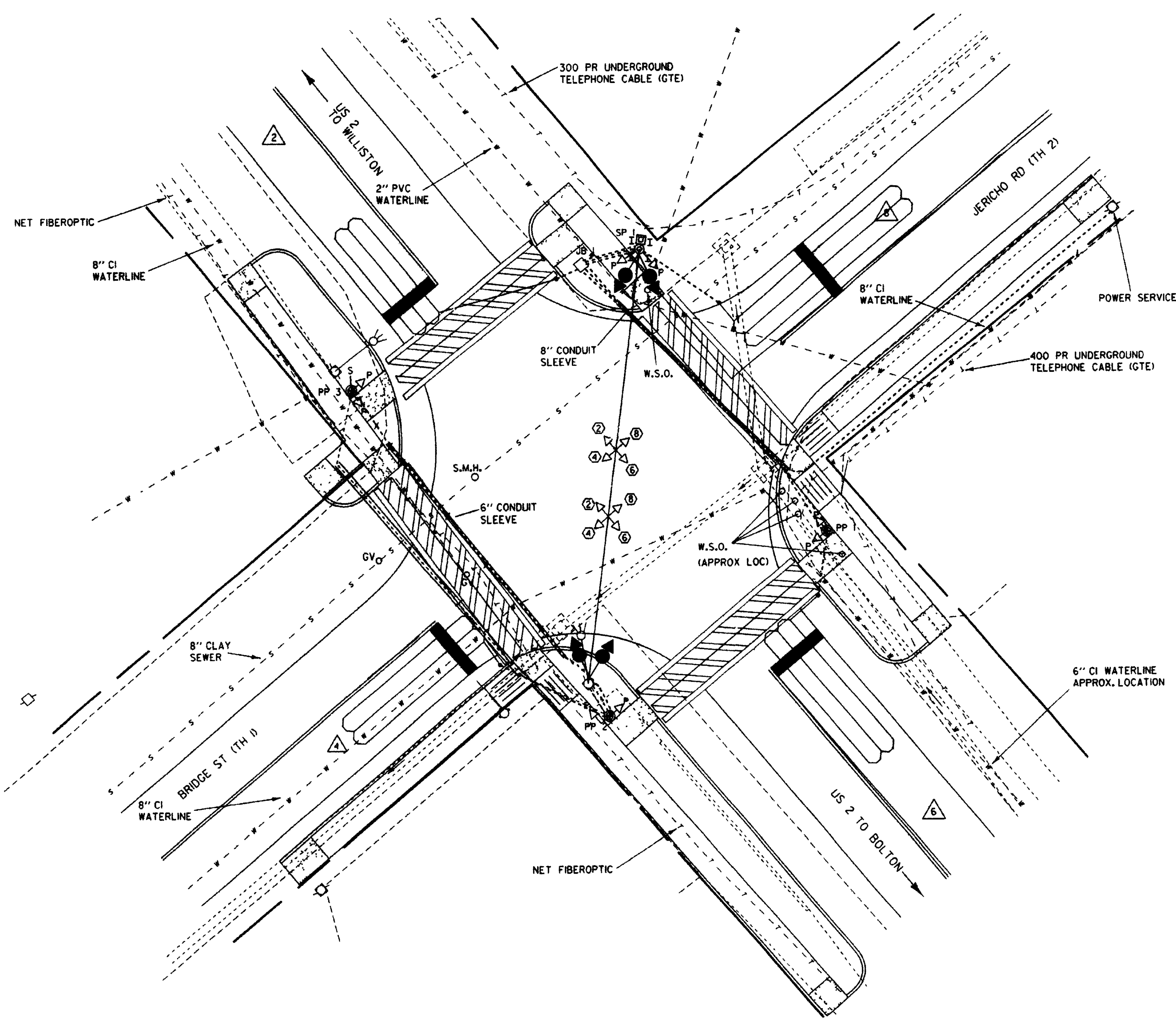
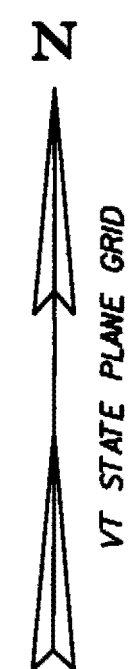
CONSTRUCTION ACTIVITIES WILL BE SHORT DURATION AND WILL LIKELY RESULT IN MINIMAL IMPACT TO THE TRAVELING PUBLIC. ALL WORK SHALL BE PERFORMED DURING DAYTIME, OFF-PEAK HOURS. REFER TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWINGS E-110 AND E-111 FOR ADDITIONAL INFORMATION. TRAFFIC CONTROL WARNING SIGNS SHALL BE PROVIDED AS NECESSARY ON EACH APPROACH PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10. PEDESTRIAN ACCESSIBILITY MUST BE MAINTAINED AT ALL TIMES.

● - RADAR STOP BAR DETECTION SENSOR

HINESBURG
VT ROUTE 116 @
T.H. 1 AND T.H. 7

PROJECT NAME: HINESBURG - RICHMOND	
PROJECT NUMBER: STPG SGNL (38)	
FILE NAME: 10b082/Traffic/tb082nu1.dg	PLOT DATE: 15-FEB-2011
PROJECT LEADER: B. NYQUIST	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: B. NYQUIST
TRAFFIC SIGNAL SHEET 1	SHEET 3 OF 4

N. T. S.



NOTES:

- 1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
- 2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING.
- 3) ANY OTHER MISCELLANEOUS EQUIPMENT AND LABOR NECESSARY TO PROVIDE A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM SHALL BE INCIDENTAL TO ITEM # 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (US ROUTE 2 @ T.H. 1 AND T.H. 2).
- 4) VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
- 5) VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 5 FT PAST THE STOP BAR.
- 6) VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA, ITERIS VERSICAM, TRAFICON VIP SERIES, OR APPROVED EQUAL.
- 7) VEHICLE DETECTOR LOOPS TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS AND WIRING REMOVED BACK TO THE CABINET.
- 8) ALL EXISTING LOOP DETECTOR EQUIPMENT TO BE SALVAGED IS TO BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 5 GARAGE AT 5 BARNES AVE. IN COLCHESTER, VT WITHIN 48 HOURS OF REMOVAL. CONTACT STEVE GUYETTE AT 655-1580 WITH ANY QUESTIONS.

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◀ - VIDEO DETECTION CAMERA

RICHMOND
US ROUTE 2 @
T.H. 1 AND T.H. 2

PROJECT NAME: HINESBURG - RICHMOND	
PROJECT NUMBER: STPG SGNL (38)	
FILE NAME: I0B082/Traffic/tb082nul.dg	PLOT DATE: 31-JAN-2011
PROJECT LEADER: B. NYQUIST	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: B. NYQUIST
TRAFFIC SIGNAL SHEET 2	SHEET 4 OF 4

N. T. S.