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STATE OF VERMONT AGENCY OF TRANSPORTATION

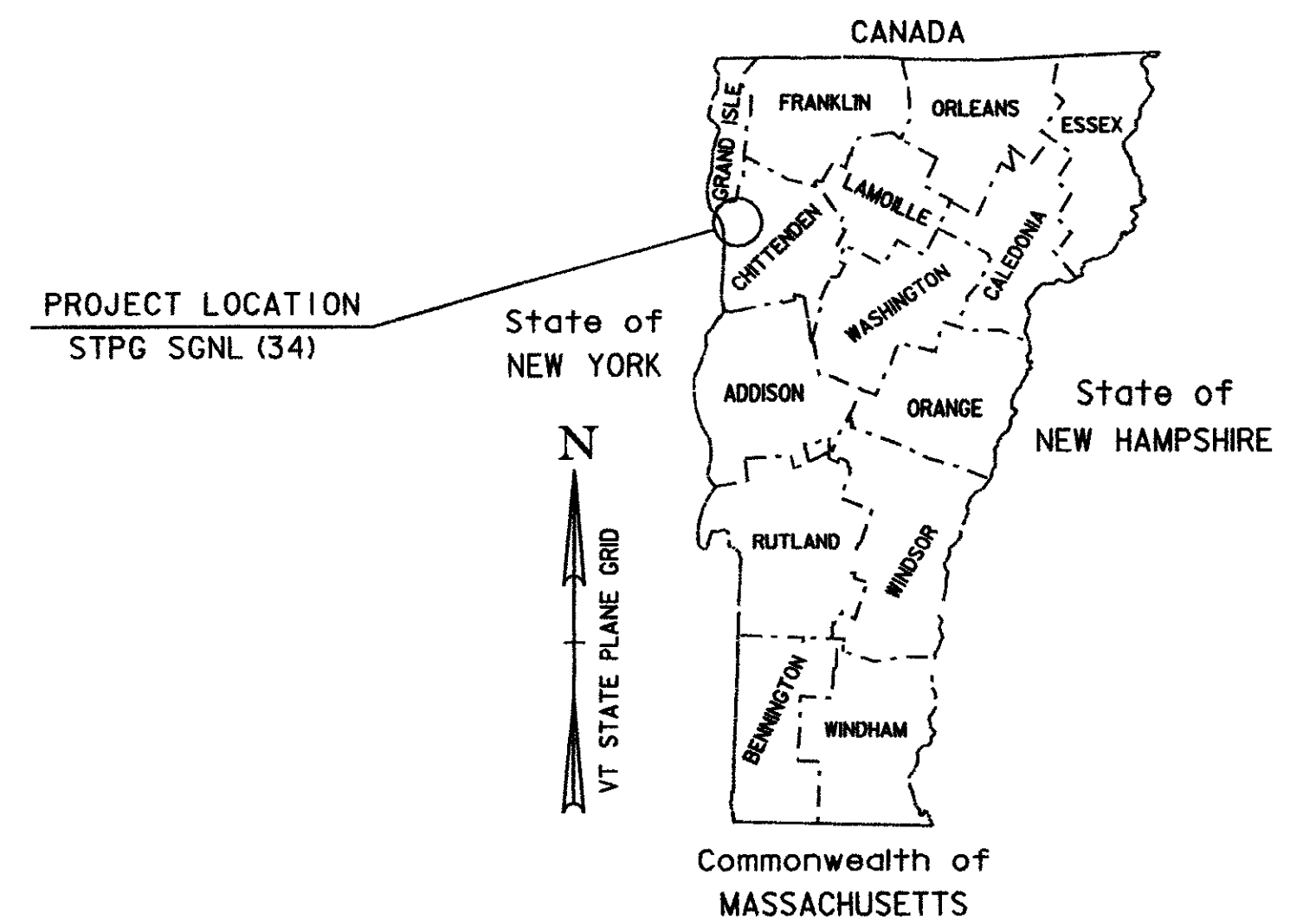


PROPOSED IMPROVEMENT TOWN OF COLCHESTER COUNTY OF CHITTENDEN US ROUTE 7 - PRINCIPAL ARTERIAL

TOWN OF COLCHESTER, US 7 AT THE INTERSECTIONS OF SOUTH PARK DRIVE (MM 0.146), I-89 EXIT 16 SB RAMP (MM 0.211), I-89 EXIT 16 NB RAMP (MM 0.225), MOUNTAIN VIEW DRIVE (MM 0.397), HERCULES DRIVE (MM 0.669), AND RATHE ROAD (MM 0.892).

LENGTH OF ROADWAY - US 7 & SOUTH PARK DRIVE	500 FT	.09 MILES
LENGTH OF ROADWAY - US 7 & I-89 EXIT 16 SB RAMP	500 FT	.09 MILES
LENGTH OF ROADWAY - US 7 & I-89 EXIT 16 NB RAMP	500 FT	.09 MILES
LENGTH OF ROADWAY - US 7 & MOUNTAIN VIEW DRIVE	500 FT	.09 MILES
LENGTH OF ROADWAY - US 7 & HERCULES DRIVE	500 FT	.09 MILES
LENGTH OF ROADWAY - US 7 & RATHE ROAD	500 FT	.09 MILES
TOTAL LENGTH OF ROADWAY	3000 FT	.57 MILES

THIS PROJECT SHALL CONSIST OF ALL WORK ASSOCIATED WITH THE INSTALLATION OF PREEMPTION & VIDEO DETECTION EQUIPMENT AT SIX SIGNALIZED INTERSECTIONS.



RECORD PLANS

CONTRACTOR	EAST COAST SIGNALS, INC. - DEERFIELD, NH
RESIDENT ENGINEER	DALE NORTON
CONSTRUCTION BEGAN	OCTOBER 8, 2009
CONSTRUCTION COMPLETE	NOVEMBER 16, 2009
RECORD PLANS BY	DALE NORTON

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN

BY Dale R. Norton RESIDENT ENGINEER

DATE 28 June 2010

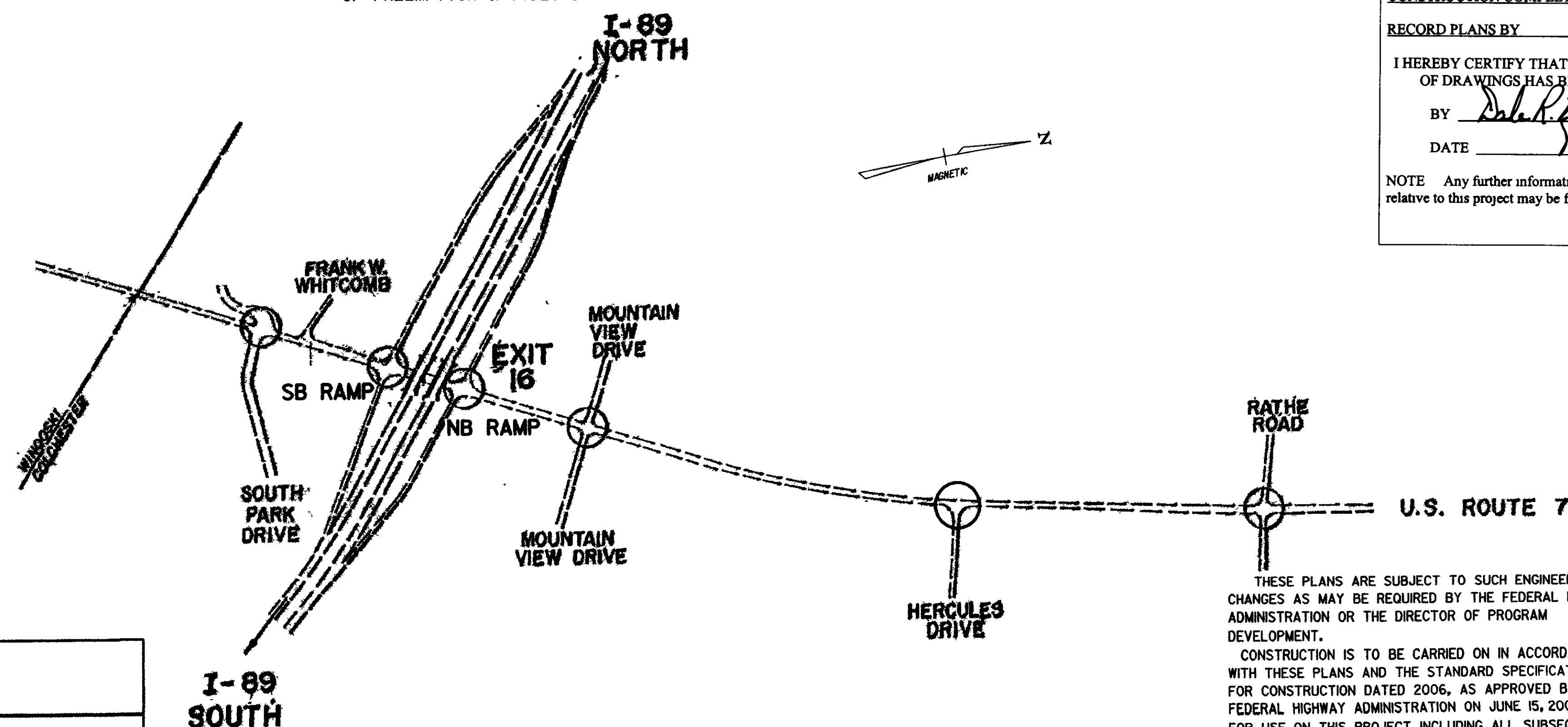
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives

CONVENTIONAL SYMBOLS

COUNTY LINE	———
TOWN LINE	———
LIMITS OF ACCESS	———
POINT OF ACCESS	X
FENCE LINE	X — X — X — X —
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



N.T.S.

BUILT AS DESIGNED

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 <u>Ruth F. Fournier</u> DATE <u>5-27-09</u>
PROJECT MANAGER : B. NYQUIST	
PROJECT NAME : COLCHESTER	
PROJECT NUMBER : STPG SGNL (34)	
SHEET 1 OF 8 SHEETS	

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

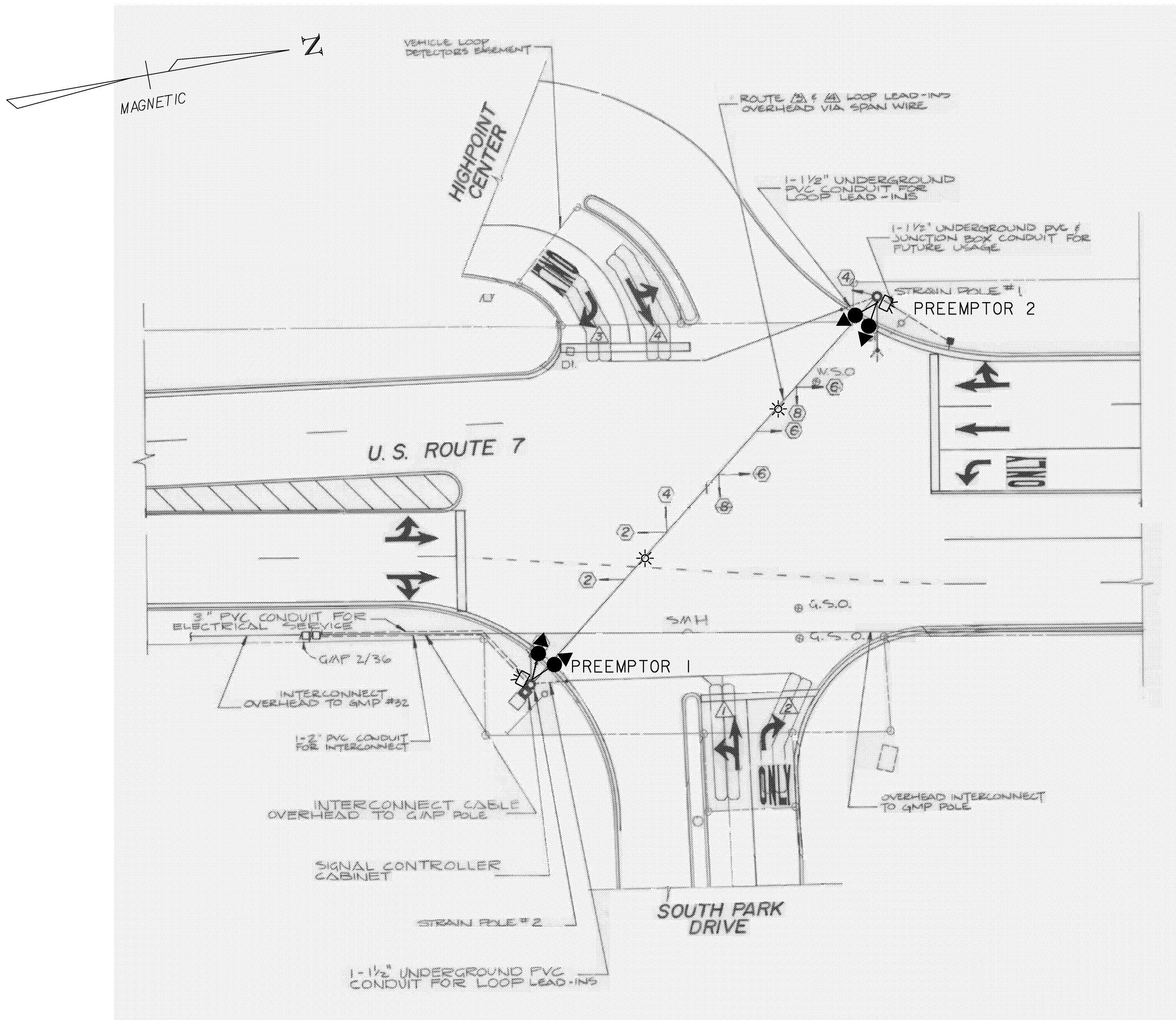
QUANTITY SHEET 1

[illegible]

PROJECT NAME:	COLCHESTER
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PROJECT NUMBER: STPG SGNL (34)

FILE NAME: 09d00/Traffic/td00nul.dg	PLOT DATE: 27-MAY-2009
PROJECT LEADER: B. NYQUIST	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: B. NYQUIST
QUANTITY SHEET	SHEET 2 OF 8



LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ SOUTH PARK DRIVE)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	4 EA

- NOTES:
- EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
 - EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING.
 - ANY OTHER MISCELLANEOUS EQUIPMENT AND LABOR NECESSARY TO PROVIDE FULLY FUNCTIONAL PREEMPTION & VIDEO DETECTION SYSTEMS SHALL BE INCIDENTAL TO ITEM #900.620 SPECIAL PROVISION (VEHICLE PREEMPTION/VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ SOUTH PARK DRIVE).
 - THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY THE TOWN.
 - THE NEW CONTROLLER TO REPLACE EXISTING ECONOLITE BRAND MODEL 8000 CONTROLLER. EXISTING CONTROLLER SHALL BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 5 GARAGE AT 5 BARNES AVE. IN COLCHESTER WITHIN 48 HOURS OF REMOVAL. CONTACT STEVE GUYETTE AT 655-1580 WITH ANY QUESTIONS.
 - VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
 - VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 5 FT PAST THE STOP BAR.
 - VEHICLE DETECTOR LOOPS TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS. EXISTING LOOP SENSOR AMPS TO BE SALVAGED (SEE NOTE #5).
 - VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA OR ITERIS VERSICAM OR TRAFICON VIP SERIES OR APPROVED EQUAL.

PREEMPTION TIMINGS		
	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

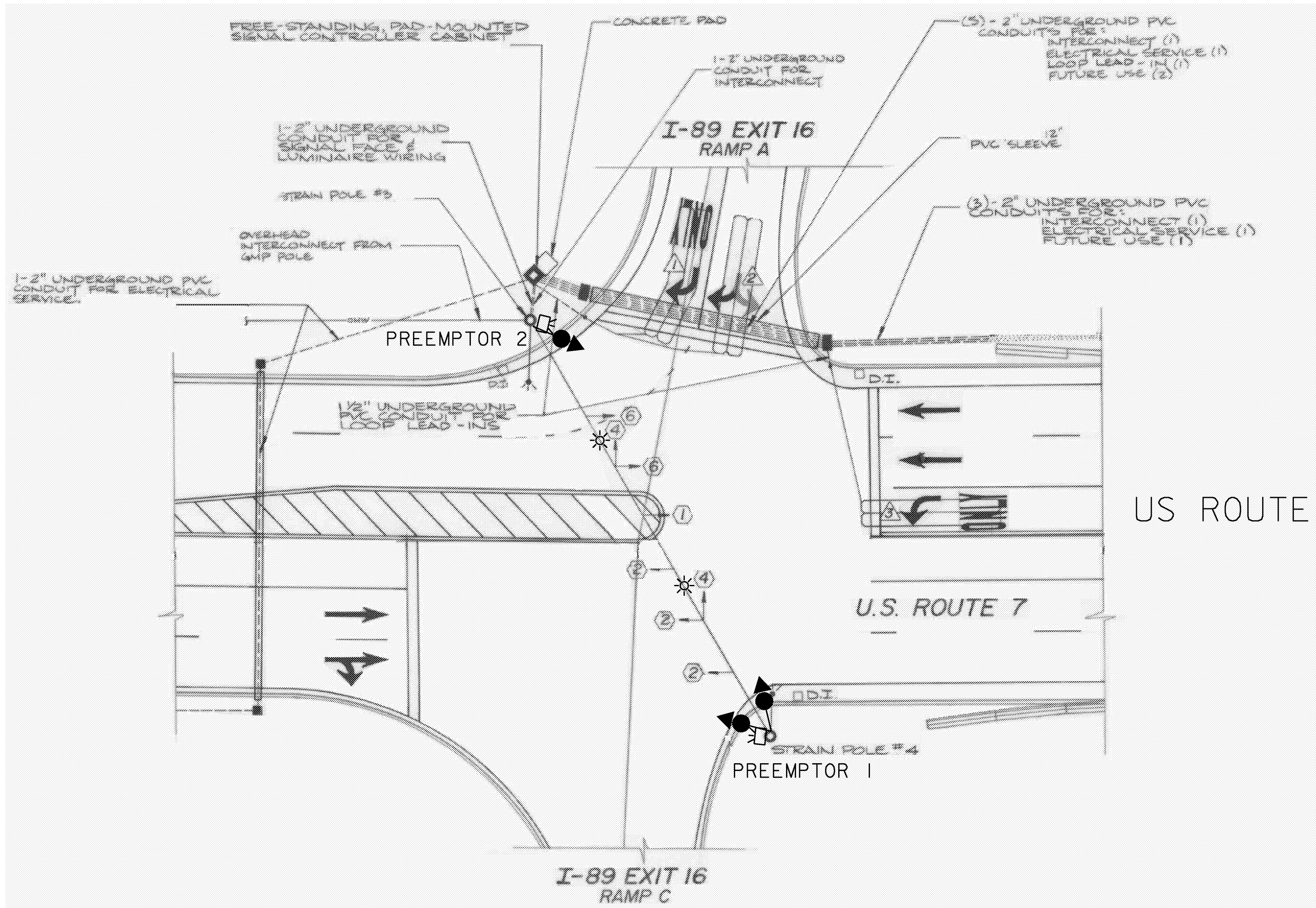
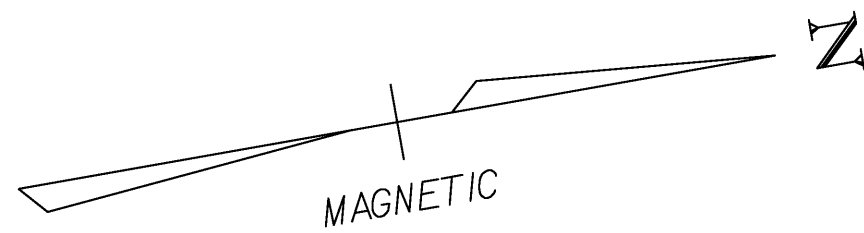
CONSTRUCTION ACTIVITIES WILL BE SHORT DURATION AND WILL LIKELY RESULT IN MINIMAL IMPACT TO THE TRAVELING PUBLIC. ALL WORK SHALL BE PERFORMED DURING DAYTIME, OFF-PEAK HOURS. REFER TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWINGS E-110 AND E-111 FOR ADDITIONAL TRAFFIC CONTROL INFORMATION. TRAFFIC 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.

- ✱ - PREEMPTION STROBE
☒ - OPTICAL PREEMPTION DETECTOR
◀● - VIDEO DETECTION CAMERA

N.T.S.

US 7 & SOUTH PARK DRIVE

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STPG SGNL (34)
FILE NAME:	09d010/Traffic/td010nldg
PROJECT LEADER:	B. NYQUIST
DESIGNED BY:	B. MCAVOY
TRAFFIC SIGNAL SHEET 1	
PLOT DATE:	27-MAY-2009
DRAWN BY:	B. MCAVOY
CHECKED BY:	B. NYQUIST
SHEET	3 OF 8



US ROUTE 7

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 TRAFFIC CONTROL 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.

✱ - PREEMPTION STROBE

◻ - OPTICAL PREEMPTION DETECTOR

◀ - VIDEO DETECTION CAMERA

LIST OF MAJOR EQUIPMENT

ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ I-89 SB RAMP)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	3 EA

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 FULLY FUNCTIONAL PREEMPTION & VIDEO DETECTION SYSTEMS SHALL BE INCIDENTAL TO ITEM #900.620 SPECIAL PROVISION (VEHICLE PREEMPTION/VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ I-89 SB RAMP).
- 4) THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY THE TOWN.
- 5) THE NEW CONTROLLER TO REPLACE EXISTING ECONOLITE BRAND MODEL 8000 CONTROLLER. EXISTING CONTROLLER SHALL BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 5 GARAGE AT 5 BARNES AVE. IN COLCHESTER WITHIN 48 HOURS OF REMOVAL. CONTACT STEVE GUYETTE AT 655-1580 WITH ANY QUESTIONS.
- 6) VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
- 7) VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 5 FT PAST THE STOP BAR.
- 8) VEHICLE DETECTOR LOOPS TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS. EXISTING LOOP SENSOR AMPS TO BE SALVAGED (SEE NOTE #5).
- 9) VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA OR ITERIS VERSICAM OR TRAFICON VIP SERIES OR APPROVED EQUAL.

PREEMPTION TIMINGS

	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

US 7 & I-89 EXIT 16 SB RAMP

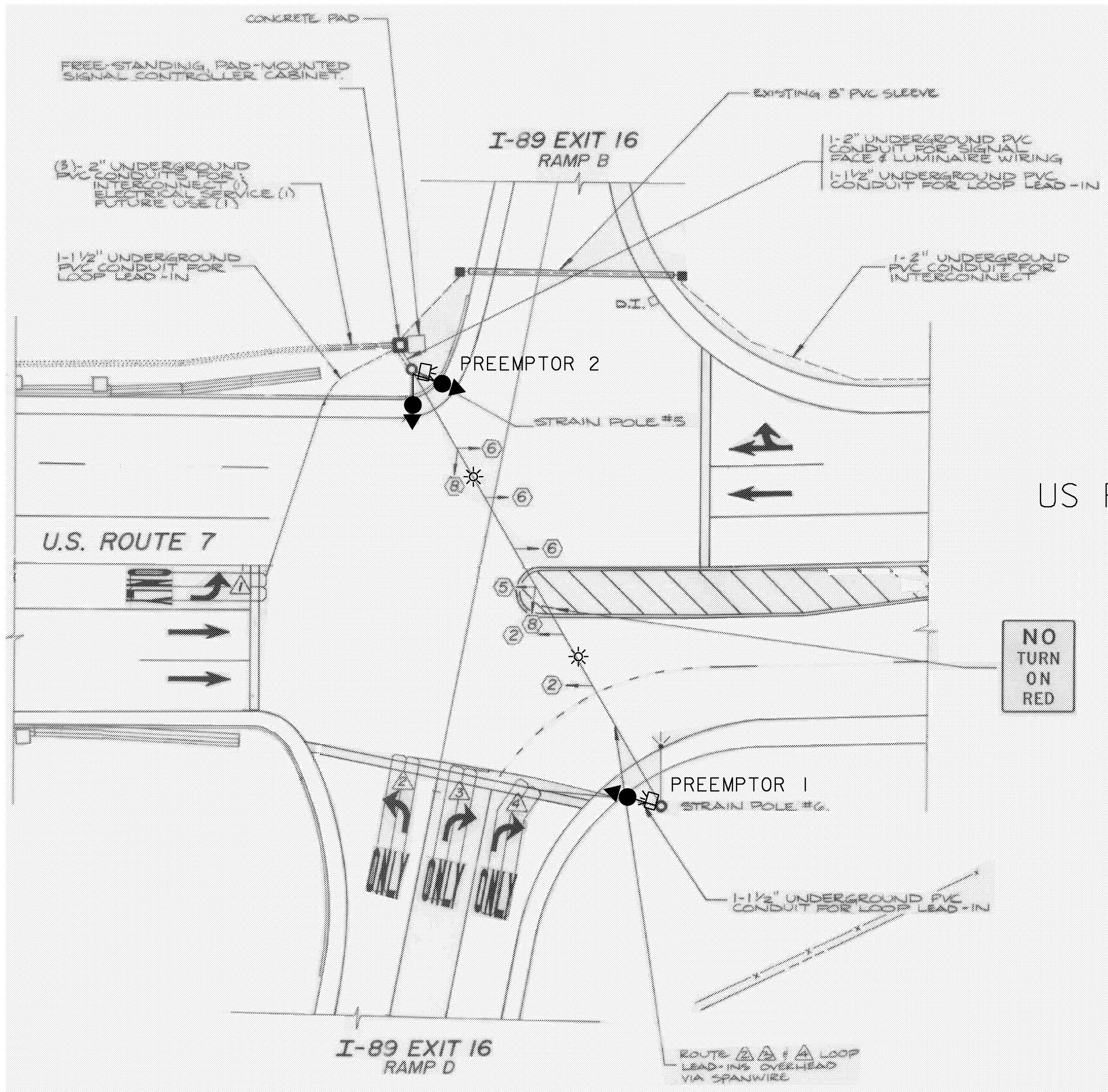
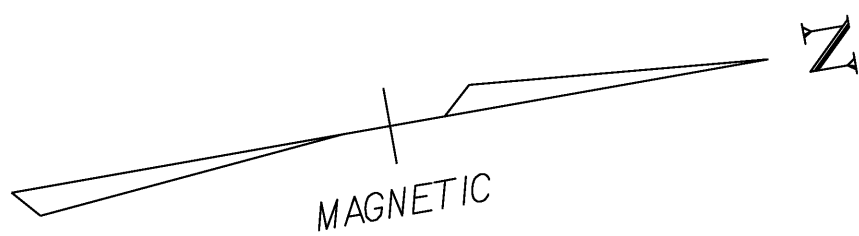
PROJECT NAME: COLCHESTER

PROJECT NUMBER: STPG SGNL (34)

FILE NAME: 09d010/Traffic/td010nul.dg
PROJECT LEADER: B. NYQUIST
DESIGNED BY: B. MCAVOY
TRAFFIC SIGNAL SHEET 2

PLOT DATE: 27-MAY-2009
DRAWN BY: B. MCAVOY
CHECKED BY: B. NYQUIST
SHEET 4 OF 8

N.T.S.



US ROUTE 7

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 TRAFFIC CONTROL 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.

- * - PREEMPTION STROBE
- ◻ - OPTICAL PREEMPTION DETECTOR
- ◐ - VIDEO DETECTION CAMERA

N.T.S.

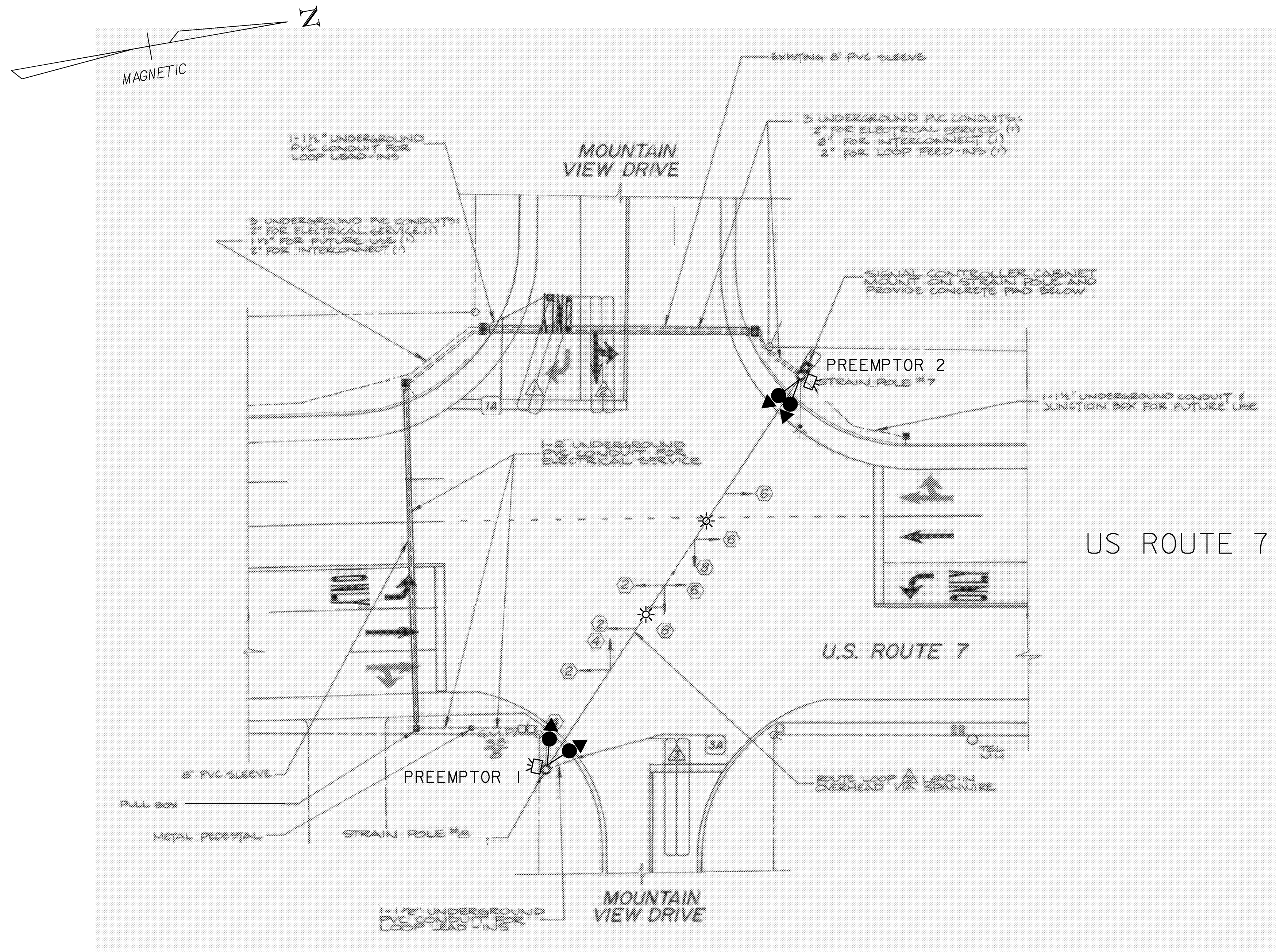
LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ I-89 NB RAMP)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	3 EA

- 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 FULLY FUNCTIONAL PREEMPTION & VIDEO DETECTION SYSTEMS SHALL BE INCIDENTAL TO ITEM #900.620 SPECIAL PROVISION (VEHICLE PREEMPTION/VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ I-89 NB RAMP).
 - 4) THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY THE TOWN.
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PREEMPTION TIMINGS		
	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

US 7 & I-89 EXIT 16 NB RAMP

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: STPG SGNL (34)	
FILE NAME: 09d010/Traffic/td010nvl.dg	PLOT DATE: 27-MAY-2009
PROJECT LEADER: B. NYQUIST	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: B. NYQUIST
TRAFFIC SIGNAL SHEET 3	SHEET 5 OF 8



LIST OF MAJOR EQUIPMENT

ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ MOUNTAIN VIEW DR.)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	4 EA

NOTES:

- EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
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- THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY THE TOWN.
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PREEMPTION TIMINGS

	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

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 TRAFFIC CONTROL 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.

* - PREEMPTION STROBE

☐ - OPTICAL PREEMPTION DETECTOR

◀ - VIDEO DETECTION CAMERA

US 7 & MOUNTAIN VIEW DRIVE

PROJECT NAME: COLCHESTER

PROJECT NUMBER: STPG SGNL (34)

FILE NAME: 09d010/Traffic/td010nul.dg

PROJECT LEADER: B. NYQUIST

DESIGNED BY: B. MCAVOY

TRAFFIC SIGNAL SHEET 4

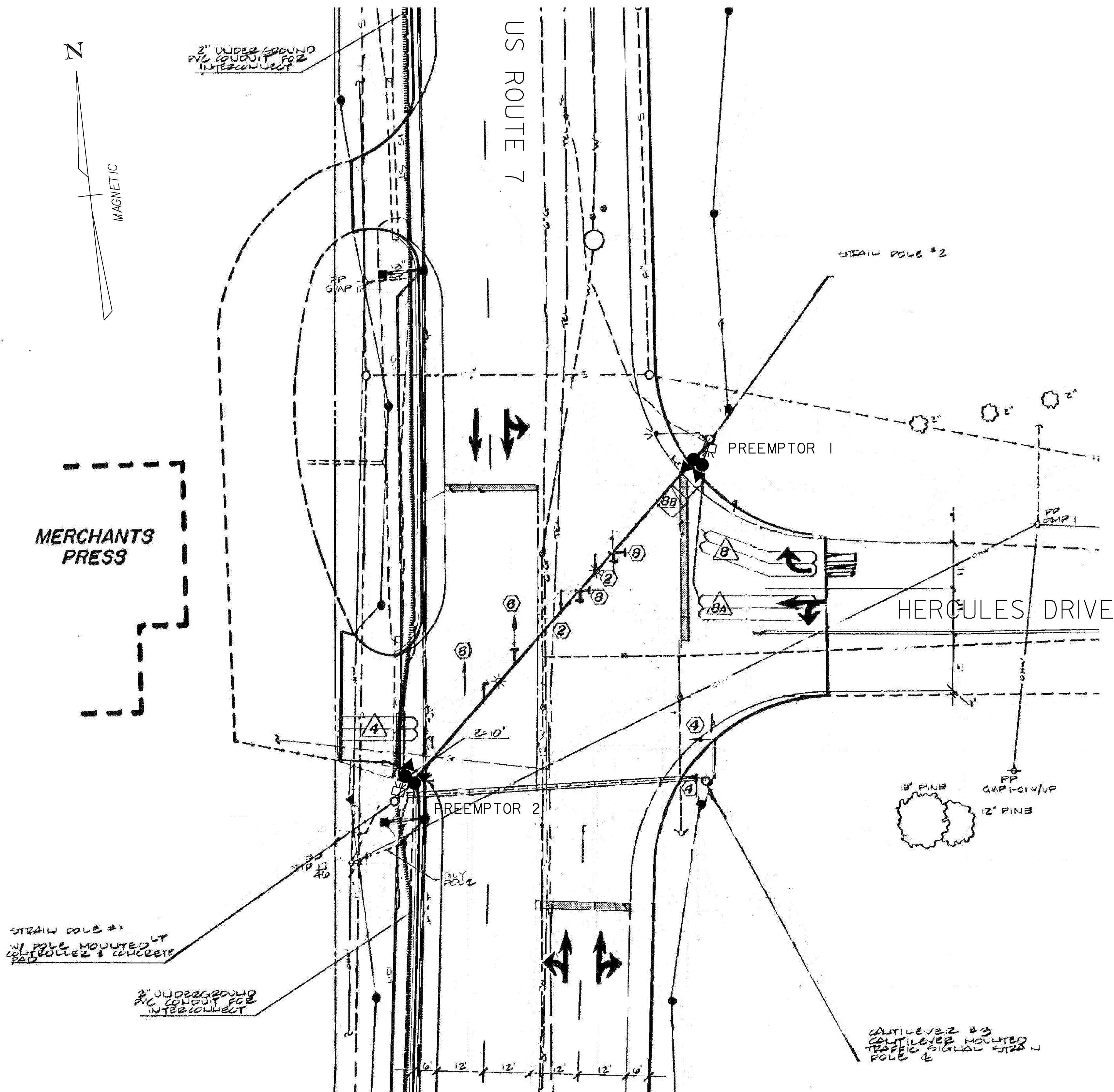
PLOT DATE: 27-MAY-2009

DRAWN BY: B. MCAVOY

CHECKED BY: B. NYQUIST

SHEET 6 OF 8

N.T.S.



LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ HERCULES DRIVE)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	4 EA

- NOTES:
- 1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
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PREEMPTION TIMINGS		
	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

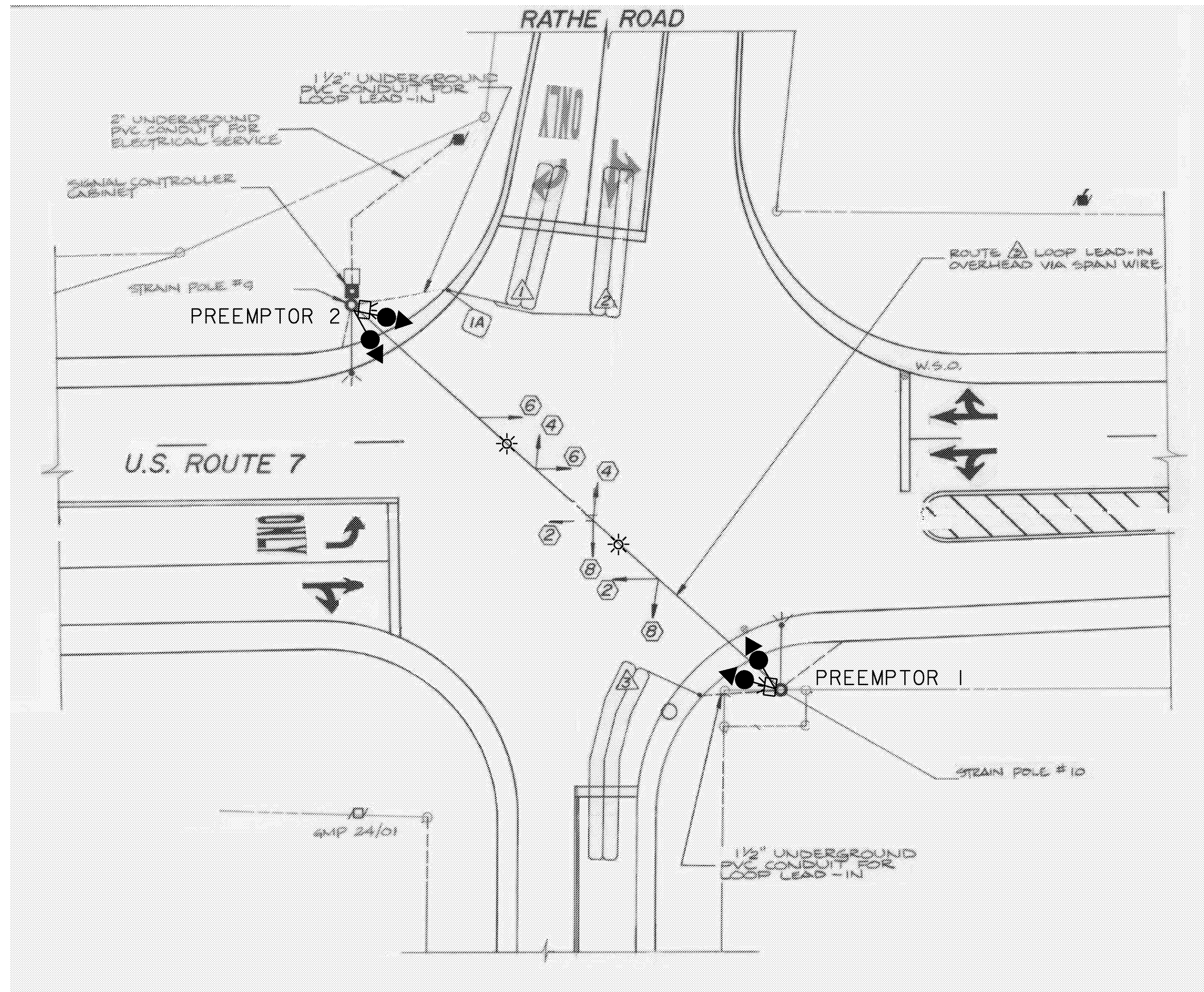
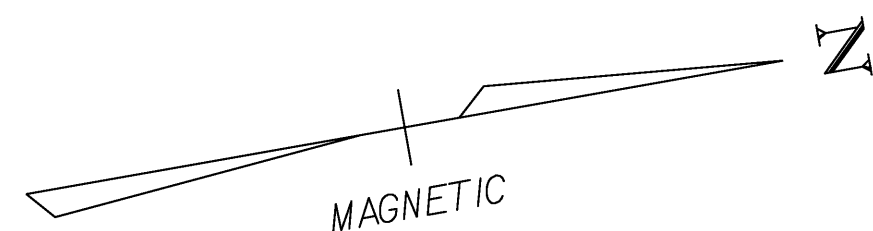
CONSTRUCTION ACTIVITIES WILL BE SHORT DURATION AND WILL LIKELY RESULT IN MINIMAL IMPACT TO THE TRAVELING PUBLIC. ALL WORK SHALL BE PERFORMED DURING DAYTIME, OFF-PEAK HOURS. REFER TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD DRAWINGS E-110 AND E-111 FOR ADDITIONAL TRAFFIC CONTROL INFORMATION. TRAFFIC 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.

- * - PREEMPTION STROBE
◻ - OPTICAL PREEMPTION DETECTOR
◐ - VIDEO DETECTION CAMERA

N.T.S.

US 7 & HERCULES DRIVE

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STPG SGNL (34)
FILE NAME:	09d010/Traffic/td010n1.dg
PROJECT LEADER:	B. NYQUIST
DESIGNED BY:	B. MCAVOY
TRAFFIC SIGNAL SHEET 5	
PLOT DATE:	27-MAY-2009
DRAWN BY:	B. MCAVOY
CHECKED BY:	B. NYQUIST
SHEET 7 OF 8	



CHAMPLAIN DRIVE

US ROUTE 7

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ RATHE ROAD)	QUANTITY
OPTICAL PREEMPTION DETECTORS	2 EA
OPTICAL SIGNAL PROCESSOR CARD & CARD CAGE	1 EA
AC STROBE - RED	2 EA
ECONOLITE ASC/3-2100 CONTROLLER	1 EA
VIDEO VEHICLE DETECTION	4 EA

- 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 FULLY FUNCTIONAL PREEMPTION & VIDEO DETECTION SYSTEMS SHALL BE INCIDENTAL TO ITEM #900.620 SPECIAL PROVISION (VEHICLE PREEMPTION/VIDEO VEHICLE DETECTION SYSTEM) (US 7 @ RATHE ROAD).
 - 4) THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DETECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY THE TOWN.
 - 5) THE NEW CONTROLLER TO REPLACE EXISTING ECONOLITE BRAND MODEL 8000 CONTROLLER. EXISTING CONTROLLER SHALL BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 5 GARAGE AT 5 BARNES AVE. IN COLCHESTER WITHIN 48 HOURS OF REMOVAL. CONTACT STEVE GUYETTE AT 655-1580 WITH ANY QUESTIONS.
 - 6) VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
 - 7) VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 5 FT PAST THE STOP BAR.
 - 8) VEHICLE DETECTOR LOOPS TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS. EXISTING LOOP SENSOR AMPS TO BE SALVAGED (SEE NOTE #5).
 - 9) VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA OR ITERIS VERSICAM OR TRAFICON VIP SERIES OR APPROVED EQUAL.

PREEMPTION TIMINGS		
	PREEMPTOR	
	1	2
DIRECTION	US7 NB	US7 SB
HOLD PHASE	2	6
DET. LOCK	NO	NO
DURATION TIME	10	10
MIN. GREEN	4.0	4.0
HOLD GREEN	12.0	12.0
HOLD YELLOW	4.0	4.0
HOLD RED	2.0	2.0
RELEASE PHASE	2&6	2&6

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 TRAFFIC CONTROL 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.

- ⚡ - PREEMPTION STROBE
◻ - OPTICAL PREEMPTION DETECTOR
◐ - VIDEO DETECTION CAMERA

US 7 & RATHE ROAD

N.T.S.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: STPG SGNL (34)	
FILE NAME: 09d010/Traffic/td010nul.dg	PLOT DATE: 27-MAY-2009
PROJECT LEADER: B. NYQUIST	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: B. NYQUIST
TRAFFIC SIGNAL SHEET 6	SHEET 8 OF 8