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2. QUANTITY SHEET
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STANDARDS

E-101	CONSTRUCTION SIGN DETAILS	05/30/2003
E-102	CONSTRUCTION SIGN DETAILS	06/30/2003
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/1995
E-111	MINOR MAINTENANCE OPERATIONS	03/11/1997
E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	08/09/1995
E-171B	TRAFFIC CONTROL SIGNALS MISC. DETAILS	08/09/1995

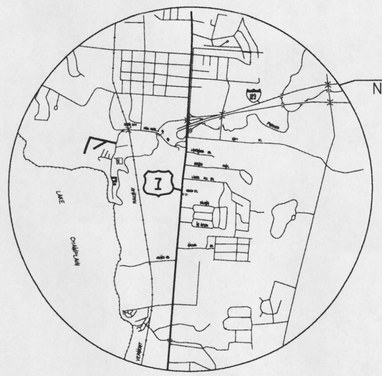
STATE OF VERMONT
AGENCY OF TRANSPORTATION

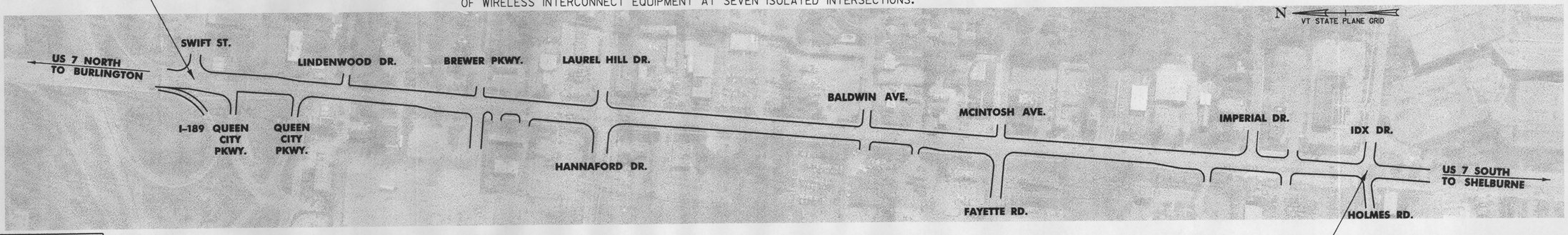
PROPOSED IMPROVEMENT
CITY OF SO. BURLINGTON
COUNTY OF CHITTENDEN
US ROUTE 7 - PRINCIPAL ARTERIAL

BEGINNING AT THE BURLINGTON/SOUTH BURLINGTON TOWN LINE AND EXTENDING SOUTHERLY 0.87 MILES TO THE INTERSECTION OF HOLMES ROAD & IDX DRIVE.

LENGTH OF ROADWAY: 4596 FEET = 0.87 MILES
LENGTH OF PROJECT: 4596 FEET = 0.87 MILES

THIS PROJECT SHALL CONSIST OF ALL WORK ASSOCIATED WITH THE INSTALLATION OF WIRELESS INTERCONNECT EQUIPMENT AT SEVEN ISOLATED INTERSECTIONS.





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

RECORD PLANS

CONTRACTOR: DON WESTON EXCAVATING,INC. - WILLISTON, VT
RESIDENT ENGINEER: DALE NORTON
CONSTRUCTION BEGAN: JULY 6, 2009
CONSTRUCTION COMPLETE: OCTOBER 2, 2009
RECORD PLANS BY: DALE NORTON

I HEREBY CERTIFY THAT ALL THE CONSTUCTION 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.

200 0 200
SCALE IN FEET

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.

BUILT AS DESIGNED

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED Richard Stevens DATE 3-13-09
PROJECT MANAGER : J. SCHULTZ

PROJECT NAME : SOUTH BURLINGTON
PROJECT NUMBER : NHG SGNL(30)

SHEET 1 OF 7 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

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.I.)	204.22				
40	40		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
80	80		HR	FLAGGERS	630.15				
1	1		LS	MOBILIZATION/DEMOBILIZATION	635.11				
1	1		LS	TRAFFIC CONTROL	641.10				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ BALDWIN AVE)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ BREWER PKWY)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ HOLMES RD)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ LAUREL HILL RD)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ MCINTOSH AVE)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ QN CITY PKWY)	900.620				
1	1		EACH	SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ SWIFT ST)	900.620				

PROJECT NAME: SOUTH BURLINGTON
PROJECT NUMBER: NHG SGNL(30)

FILE NAME: tb114nu1.dgn
PROJECT MANAGER: J. SCHULTZ
DESIGNED BY: B. MCAVOY
QUANTITY SHEET #1

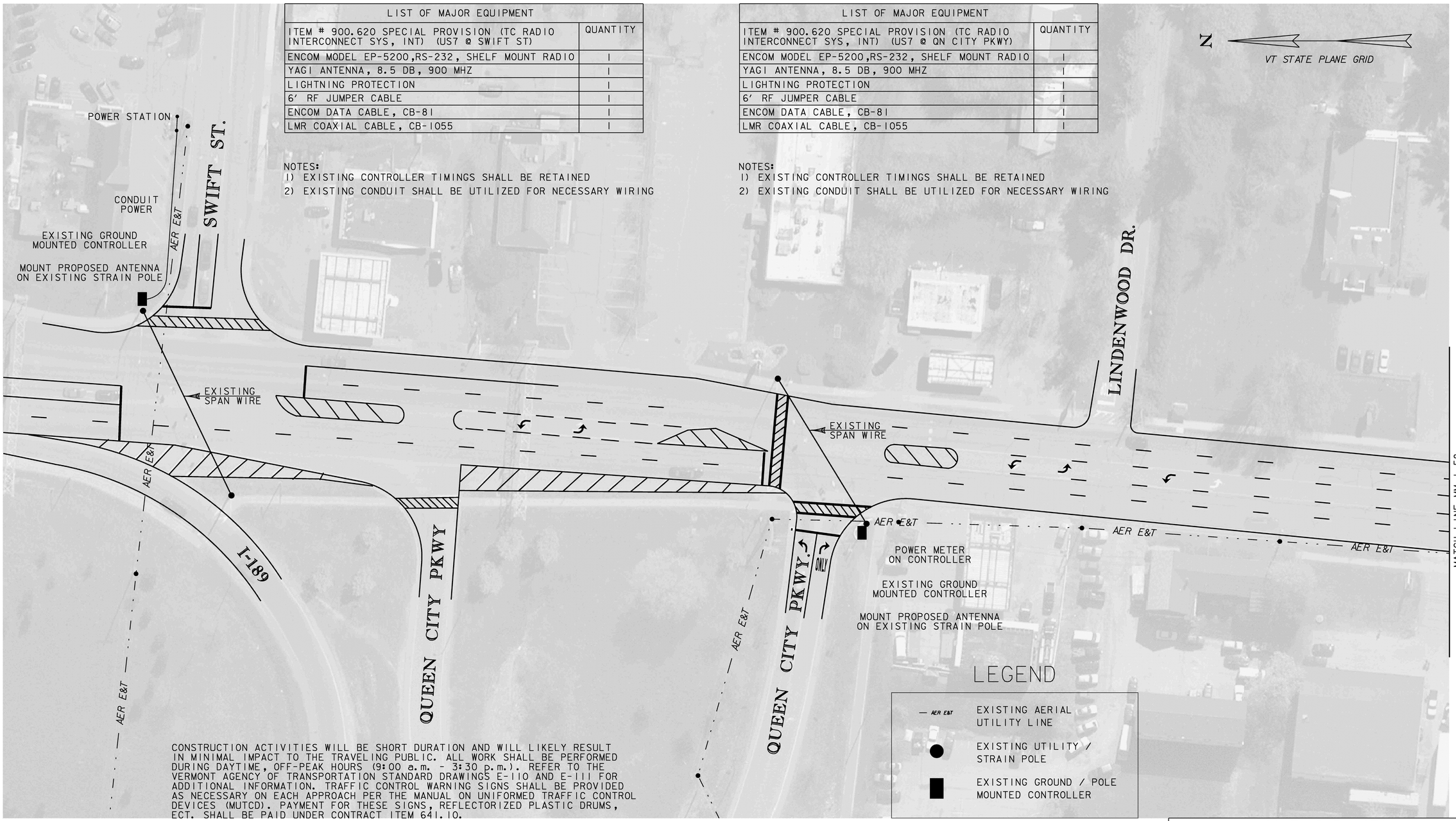
PLOT DATE: 02/11/2009
DRAWN BY: J. DEVLIN
CHECKED BY: J. DEVLIN

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ SWIFT ST)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1

NOTES:
1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ QN CITY PKWY)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1

NOTES:
1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING



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 (9:00 a.m. - 3:30 p.m.). 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 UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10.

LEGEND

— AER E&T —	EXISTING AERIAL UTILITY LINE
●	EXISTING UTILITY / STRAIN POLE
■	EXISTING GROUND / POLE MOUNTED CONTROLLER

30 0 30
SCALE IN FEET

PROJECT NAME: SOUTH BURLINGTON
PROJECT NUMBER: NHG SGNL(30)

FILE NAME: 07b114\Traffic\tb114LS1.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: B. MCAVOY
INTERCONNECT LAYOUT SHEET 1

PLOT DATE: 12-MAR-2009
DRAWN BY: B. MCAVOY
CHECKED BY: J. DEVLIN
SHEET 3 OF 7

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ BREWER PKWY)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1

NOTES:
1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ LAUREL HILL RD)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1

NOTES:
1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING

N

VT STATE PLANE GRID

MATCH LINE MM 1.58

MATCH LINE MM 1.40

BREWER PKWY.

LAUREL HILL DR.

HANNAFORD DR

EXISTING SPAN WIRE

AER E&T

POWER FROM POLE TO POLE

EXISTING GROUND MOUNTED CONTROLLER

MOUNT PROPOSED ANTENNA ON EXISTING STRAIN POLE

EXISTING POLE MOUNTED CONTROLLER

POWER STANCHION

ONLY

LEGEND

AER E&T	EXISTING AERIAL UTILITY LINE
●	EXISTING UTILITY / STRAIN POLE
■	EXISTING GROUND / POLE MOUNTED CONTROLLER

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 (9:00 a.m. - 3:30 p.m.). 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 UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10.

30 0 30
SCALE IN FEET

PROJECT NAME:	SOUTH BURLINGTON
PROJECT NUMBER:	NHG SGNL(30)
FILE NAME: 07b114\Traffic\tb114LS2.dgn	PLOT DATE: 12-MAR-2009
PROJECT LEADER: J. SCHULTZ	DRAWN BY: B. MCAVOY
DESIGNED BY: B. MCAVOY	CHECKED BY: J. DEVLIN
INTERCONNECT LAYOUT SHEET 2	SHEET 4 OF 7

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ BALDWIN AVE)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1
ECONOLITE ASC/3-2100 CONTROLLER	1

NOTES:
1) NEW ECONOLITE ASC/3-2100 CONTROLLER TO REPLACE EXISTING MODEL 8000 CONTROLLER
2) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
3) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING

N

VT STATE PLANE GRID

MATCH LINE MM 1.40

MATCH LINE MM 1.22

BALDWIN AVE.

AER E&T

EXISTING SPAN WIRE

ONE

POWER METER ON CONTROLLER

EXISTING GROUND MOUNTED CONTROLLER

MOUNT PROPOSED ANTENNA ON EXISTING STRAIN POLE

LEGEND

— AER E&T —	EXISTING AERIAL UTILITY LINE
●	EXISTING UTILITY / STRAIN POLE
■	EXISTING GROUND / POLE MOUNTED CONTROLLER

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 (9:00 a.m. - 3:30 p.m.). 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 UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10.

30 0 30
SCALE IN FEET

PROJECT NAME: SOUTH BURLINGTON
PROJECT NUMBER: NHG SGNL(30)

FILE NAME: 07b114\Traffic\tb114LS3.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: B. MCAVOY
INTERCONNECT LAYOUT SHEET 3

PLOT DATE: 12-MAR-2009
DRAWN BY: B. MCAVOY
CHECKED BY: J. DEVLIN
SHEET 5 OF 7

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ MCINTOSH AVE)	QUANTITY
ENCOM MODEL EP-5200,RS-232, SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-81	1
LMR COAXIAL CABLE, CB-1055	1
ECONOLITE ASC/3-2100 CONTROLLER	1

NOTES:
1) NEW ECONOLITE ASC/3-2100 CONTROLLER TO REPLACE EXISTING MODEL 8000 CONTROLLER
2) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
3) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING

N

VT STATE PLANE GRID

MATCH LINE MM 1.22

MATCH LINE MM 1.04

MCINTOSH AVE.

FAYETTE RD.

ONLY

AER E&T

EXISTING SPAN WIRE

POWER METER ON POLE

EXISTING POLE MOUNTED CONTROLLER

MOUNT PROPOSED ANTENNA ON EXISTING STRAIN POLE

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 (9:00 a.m. - 3:30 p.m.). 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 UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10.

LEGEND

- AER E&T — EXISTING AERIAL UTILITY LINE
- EXISTING UTILITY / STRAIN POLE
- EXISTING GROUND / POLE MOUNTED CONTROLLER

30 0 30
SCALE IN FEET

PROJECT NAME: SOUTH BURLINGTON
PROJECT NUMBER: NHG SGNL(30)

FILE NAME: 07bl14\Traffic\tbl14LS4.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: B. MCAVOY
INTERCONNECT LAYOUT SHEET 4

PLOT DATE: 12-MAR-2009
DRAWN BY: B. MCAVOY
CHECKED BY: J. DEVLIN
SHEET 6 OF 7

LIST OF MAJOR EQUIPMENT	
ITEM # 900.620 SPECIAL PROVISION (TC RADIO INTERCONNECT SYS, INT) (US7 @ HOLMES RD)	QUANTITY
ENCOM MODEL EP-5200S,RS-232,SHELF MOUNT RADIO	1
YAGI ANTENNA, 8.5 DB, 900 MHZ	1
LIGHTNING PROTECTION	1
6' RF JUMPER CABLE	1
ENCOM DATA CABLE, CB-112	1
LMR COAXIAL CABLE, CB-1055	1

NOTES:
1) EXISTING CONTROLLER TIMINGS SHALL BE RETAINED
2) EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING
3) US7 @ HOLMES RD INTERSECTION IS THE MASTER CONTROLLER

N
VT STATE PLANE GRID

IMPERIAL DR.

IDX DR.

HOLMES RD.

MATCH LINE MM 1.04

EXISTING GROUND MOUNTED CONTROLLER

MOUNT PROPOSED ANTENNA ON EXISTING STRAIN POLE

AER E&T

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 (9:00 a.m. - 3:30 p.m.). 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 UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD). PAYMENT FOR THESE SIGNS, REFLECTORIZED PLASTIC DRUMS, ECT. SHALL BE PAID UNDER CONTRACT ITEM 641.10.

LEGEND

AER E&T	EXISTING AERIAL UTILITY LINE
●	EXISTING UTILITY / STRAIN POLE
■	EXISTING GROUND / POLE MOUNTED CONTROLLER

30 0 30
SCALE IN FEET

PROJECT NAME: SOUTH BURLINGTON
PROJECT NUMBER: NHG SGNL(30)

FILE NAME: 07b114\Traffic\tc114LS5.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: B. MCAVOY
INTERCONNECT LAYOUT SHEET 5

PLOT DATE: 12-MAR-2009
DRAWN BY: B. MCAVOY
CHECKED BY: J. DEVLIN
SHEET 7 OF 7