



NOTES:

1. ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM)(AARDOT 851-294L) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AREMA RECOMMENDED PRACTICES.
2. CROSSING SHALL BE ACTIVATED BY STYLE "C" TRACK CIRCUITS. THE CONTRACTOR SHALL PROVIDE A DETAILED DESIGN TO VTRANS & VERMONT RAILWAY FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLING MATERIALS. THE CONTRACTOR SHALL ANTICIPATE A 10 DAY REVIEW PERIOD.
3. ALL SIGNAL HEADS SHALL BE 12 INCH LED TYPE. SIGNAL MASTS 2 AND 3 TO BE 22' WITH ADDITIONAL SET OF LIGHTS ON UPPER PORTION OF MAST.
4. REPLACE EXISTING COMMERCIAL POWER SERVICE WITH NEW 100 AMP METERED SERVICE. COORDINATE WITH POWER COMPANY.
5. FURNISH AND INSTALL CONDUIT UNDER ROADWAY AND TRACKS AS SHOWN. SEE SHEET 129 FOR DETAILS. CONDUITS UNDER ROADWAY SHALL EXTEND 20' FROM EDGE OF ROADWAY.
6. WARNING TIME = 25 SEC MINIMUM WT
 + 8 SEC CLEARANCE TIME [CT] (CLEARANCE DISTANCE 112 FEET)
 + 5 SEC BUFFER TIME [FT]
 = 34 SEC DESIGNED WARNING TIME
 + 0 SECONDS EQUIPMENT RESPONSE TIME [ERT]
 = 38 SECONDS OR 1,115 FEET AT 20 MPH (29.33 FPS)
7. EXACT LOCATION OF NEW SIGNALS SHALL BE FIELD LOCATED AND COORDINATED WITH VTRANS AND VERMONT RAILWAY FOR MAXIMUM VISIBILITY WITH EXISTING TRAFFIC SIGNALS AND UTILITY POLES.
8. THE CONTRACTOR SHALL PROVIDE A DETAILED DESIGN TO VERMONT RAILWAY AND VTRANS FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLING MATERIAL. THE CONTRACTOR SHALL ANTICIPATE A 10 DAY REVIEW PERIOD.
9. SEE SHEET 129 FOR PROPOSED GRADE CROSSING SURFACE TREATMENT.
10. LOCATION OF SHELTER TO BE COORDINATED WITH VERMONT RAILWAY.
11. NO ADDITIONAL RIGHT OF WAY HAS BEEN PURCHASED FOR CONSTRUCTION OF THIS CROSSING.

**SIGNAL SHEET
AARDOT 851-294L
MP 55.26
HIGHWAY CROSSING
WEST STREET**

ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 851-294L)		
DESCRIPTION	UNIT	QTY
DETAIL SIGNAL DESIGN NEW FLASHER CROSSING IN 4'X6' HOUSE COMPLETE	LS	1
FURNISH & INSTALL NEW FLASHER CROSSING COMPLETE	EA	1
PREWIRED 4'X6' STEEL SHELTER	EA	1
12" LED FLASHER SIGNAL MAST ASSEMBLY COMPLETE WITH LIGHTS AS SHOWN AND FOUNDATION	EA	3
5 CONDUCTOR #9 SIGNAL FLASHER CABLE WITH CONNECTIONS	LF	400
2 CONDUCTOR #6 TWISTED TRACK WIRE WITH CONNECTIONS	LF	800
POWER CABLE (SIZED BY CONTRACTOR) WITH CONNECTIONS	LF	100
7 CONDUCTOR #14 (OR AS REQUIRED) PREEMPTION CABLE WITH CONNECTIONS	LF	100
4" GALVANIZED STEEL CONDUIT	LF	500
100 AMP POWER SERVICE	EA	1
TRAFFIC METERED INTERCONNECT INTERFACE	LS	1
CUT IN OF CROSSING CIRCUITS AND PREEMPTION	LS	1
AS BUILT PLANS PROVIDED TO VERMONT RAILWAY WITH ELECTRONIC COPY	LS	1
REMOVE AND SALVAGE EQUIPMENT (VERMONT RAILWAY)	LS	1

HNTB

300 APOLLO DRIVE
CHELMSFORD, MA. 01824

NOT TO SCALE

**AARDOT
851-294L
PROPOSED
CROSSING
SIGNAL
SHEET**

PROJECT NAME: RUTLAND CITY - PROCTOR	PLOT DATE: 31-JUL-2013
PROJECT NUMBER: STP 2728(1)	DRAWN BY: W.G.P.
FILE NAME: p07d282.dgn	CHECKED BY: D.W.E.
PROJECT LEADER: D.E.G.	SHEET 133 OF 392
DESIGNED BY: M.J.M.	
IPARM FILE: p07d282rrd05.1	