

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AND ITS LATEST REVISIONS, THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2010, AND ITS LATEST REVISIONS, AND THE VTRANS STRUCTURES DESIGN MANUAL.
2. DESIGN CRITERIA:

DESIGN LIVE LOAD :	HL-93
FILL OVER THE STRUCTURE:	10 FEET
FOUNDATION SOIL PARAMETERS	
UNIT WEIGHT :	110 PCF
FRICTION ANGLE :	27 DEGREES
RETAINED SOIL PARAMETERS	
UNIT WEIGHT:	140 PCF
FRICTION ANGLE:	35 DEGREES
FACTORED BEARING RESISTANCE (FOOTING WIDTH)	
6800 PSF (8 FEET)	
7000 PSF (9 FEET)	
7200 PSF (10 FEET)	
3. REINFORCING STEEL SHALL BE UNCOATED.
4. THE DESIGN SHALL INCLUDE THE EFFECTS OF ALL LOADS INCLUDING BUT NOT LIMITED TO LIVE LOAD, EARTH SURCHARGE, AND HYDROSTATIC PRESSURE.
5. FOR INFORMATION REGARDING UTILITIES SEE THE SPECIAL PROVISIONS.
6. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
7. ITEM 529.15 "REMOVAL OF STRUCTURE(11'x 9'x 50'CONCRETE BOX)" SHALL BE USED FOR REMOVAL OF THE EXISTING CONCRETE BOX CULVERT AND ANY ADDITIONAL WORK REQUIRED FOR PARTIAL REMOVAL DUE TO PHASE CONSTRUCTION.
8. 1 1/2" OF TEMPORARY PAVEMENT SHALL BE PLACED ON TOP OF SUBBASE PRIOR TO WINTER SHUT DOWN. THE PAVEMENT NEED NOT MEET THE MIX DESIGN SUBMITTAL AND PLANT INSPECTION REQUIREMENTS SET FORTH IN SECTION 406 OR 490.

CONCRETE

9. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE BURIED STRUCTURE.
10. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE :

SPACING:	+/- 1 INCH
CLEARANCE:	+/- 1/4 INCH
11. PRECAST TOLERANCES:

HEIGHT/WIDTH:	+/- 1/4 INCH
LENGTH:	+/- 1/2 INCH

BURIED STRUCTURE

12. THE PRECAST CONCRETE BURIED STRUCTURE SHALL BE A THREE-SIDED FRAME OR ARCH TYPE STRUCTURE WITH A MINIMUM CLEAR SPAN OF 24 FEET. THE LUMP SUM COST FOR ITEM 540.10 "PRECAST CONCRETE STRUCTURE (24' X 6.5' X 72' FRAME OR ARCH TYPE)" SHALL INCLUDE THE PRECAST BURIED UNITS, HEADWALLS, WINGWALLS, AND MECHANICAL CONNECTIONS.
13. THE WINGWALLS SHALL BE SELECTED FROM THE LIST OF WALLS ON THE APPROVED RETAINING WALL DOCUMENT AVAILABLE FROM VAOT MATERIALS AND RESEARCH WEB SITE. THE RETAINING WALL SHALL HAVE CONCRETE FACING.
<http://www.aot.state.vt.us/matres/Documents/ACROBAT.pdf/5&FDoX/VAOT%20APPROVED%20Retaining%20Walls%2012-2008.pdf>
14. THE USE OF EQUIPMENT AND THE METHOD OF BACKFILLING AROUND THE BURIED STRUCTURE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN WHEN BACKFILLING AGAINST JOINT SEALING MATERIALS.
15. CARE SHALL BE TAKEN WHEN DRIVING GUARDRAIL POSTS AS TO NOT DAMAGE THE BURIED STRUCTURE OR INTERFERE WITH WINGWALL COMPONENTS.

ABUTMENTS

16. ABUTMENTS SHALL BE PLACED UNDER THE BURIED STRUCTURE AND WINGWALLS AND MAY BE CONSTRUCTED OF EITHER PRECAST OR CAST-IN-PLACE CONCRETE. ABUTMENTS SHALL BE PAID FOR UNDER THE ITEM 900.645, "SPECIAL PROVISION (PEDESTAL WALL)(ABUTMENT NO.1)" OR "SPECIAL PROVISION (PEDESTAL WALL)(ABUTMENT NO.2)". SEE SPECIAL PROVISIONS.

PROJECT NAME: PITTSFIELD-STOCKBRIDGE
PROJECT NUMBER: STP 022-1(22)S

FILE NAME: s00b122note.dgn	PLOT DATE: 07-SEP-2011
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GENERAL NOTES	SHEET 3 OF 41