

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
2. DESIGN IS FOR HS-25-44 LIVE LOADING.
3. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68°F OR AS NOTED OTHERWISE.
4. TRAFFIC ON VT 100 SHALL BE MAINTAINED THROUGH THE USE OF AN EXISTING ONE LANE TEMPORARY BRIDGE DURING THE CONSTRUCTION PERIOD. CARE SHALL BE TAKEN WHILE REMOVING PAVEMENT AND EXCAVATING UNDER THE TEMPORARY BRIDGE SO AS NOT TO DAMAGE ANY PART OF THE TEMPORARY BRIDGE. THE LIGHTS CONTROLLING THE TRAFFIC FLOW OVER THE TEMPORARY BRIDGE WILL BE THE RESPONSIBILITY OF THE DISTRICT. IF LIGHTS NEED ADJUSTING DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL CONTACT DISTRICT 1 TECHNICIAN NELSON BLANCHARD AT 447-6924 AND/OR RUSS VELANDER FOR SIGNAL MAINTENANCE AT 828-2519.
5. THE REMOVAL OF THE EXISTING TEMPORARY BRIDGE, LIGHTS, APPROACH SIGNS, JERSEY BARRIERS, ALL CONCRETE BLOCKS AND CONCRETE BEARING BLOCKS WILL BE THE RESPONSIBILITY OF THE DISTRICT. WHEN THE TEMPORARY BRIDGE IS NO LONGER NEEDED, THE CONTRACTOR SHALL CONTACT DISTRICT 1 TECHNICIAN NELSON BLANCHARD AT 447-6924 TO ARRANGE FOR THE REMOVAL. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AT LEAST 2 WEEKS PRIOR TO THE DATE THE TEMPORARY BRIDGE IS TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING THE APPROACH ROADWAY FILL TRANSITIONING TO THE TEMPORARY BRIDGE, WHICH SHALL BE PAID FOR UNDER ITEM 203.15 "COMMON EXCAVATION".
6. ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE EXISTING 10' C.G.M.P. PIPE CULVERT AND ANY PORTIONS OF THE HEADWALLS NOT REMOVED UNDER THE ITEMS "STRUCTURE EXCAVATION" OR "UNCLASSIFIED CHANNEL EXCAVATION". PARTIAL REMOVAL OF 18" C.G.M.P. PIPE BETWEEN STA 12+81 - STA 12+94 RT AS WELL AS THE COMPLETE REMOVAL OF THE PIPE BETWEEN STA 4+17 - STA 4+37 RT SHALL ALSO BE PAID UNDER ITEM 529.15 "REMOVAL OF STRUCTURE".
7. A MINIMUM OF 3 FEET COVER OVER THE BOX MUST BE PROVIDED BEFORE ALLOWING ANY VEHICLE OVER THE NEW STRUCTURE.
8. TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.
9. WATER REPELLENT (MOD. - SILANE) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE WING WALLS AND HEADWALLS. WATER REPELLENT SHALL BE APPLIED TO THE EXPOSED INSIDE SURFACE OF THE BOX STARTING AT THE OPENING AT EACH END AND EXTENDING 3 FEET INTO THE BOX, INCLUDING THE BOTTOM SURFACE OF THE TOP SLAB, AND TOP SURFACE OF BOTTOM SLAB.
10. ALL ROADWAY AND BRIDGE WORK HAS BEEN DESIGNED TO BE CONSTRUCTED WITHIN THE EXISTING HIGHWAY RIGHT-OF-WAY AND/OR PREVIOUSLY ACQUIRED SLOPE AND CHANNEL EASEMENTS AS SHOWN ON THESE PLANS.
11. THERE ARE TWO UTILITY POLES WITH OVERHEAD LINES. ALL OVERHEAD LINES SHALL REMAIN IN PLACE DURING CONSTRUCTION. THE CONTRACTOR SHALL PAY GREAT ATTENTION DURING EXCAVATION OF EXISTING STRUCTURE AND PLACING OF NEW ONE.

PRECAST CONCRETE BOX NOTES:

1. DESIGN CRITERIA:
 - A. DESIGN SHALL BE IN ACCORDANCE WITH 2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
 - B. SOIL UNIT WEIGHT = 140 pcf
 - C. DESIGN LIVE LOAD = AASHTO HS-25-44
 - D. ALLOWABLE BEARING CAPACITY \leq 3KSF
 - E. FACTOR OF SAFETY FOR OVERTURNING \geq 2.0
 - F. FACTOR OF SAFETY FOR SLIDING \geq 1.5
 - G. FRICTION ANGLE OF THE FOUNDATION SOIL \leq 30°
 - H. BACKFILL MATERIAL USED SHALL CONFORM TO SECTION 704.08 OF VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL ALSO HAVE A FRICTION ANGLE OF 34°.
2. THE 8'-0" LONG PRECAST SECTIONS ARE SHOWN FOR REFERENCES ONLY. THE ACTUAL DIMENSIONS AND SHAPE WILL BE DEPENDENT ON THE FABRICATOR. ALL UNITS EXCEPT FIRST AND LAST WILL BE SAME SHAPE AND SAME LENGTH. THE MINIMUM INSIDE DIMENSIONS SHALL BE 10'-0" HEIGHT AND 12'-0" WIDE. THE ENDS OF THE FIRST AND LAST UNITS WHERE THE WINGWALLS ATTACH SHALL BE VERTICAL.
3. BOTH HEADWALLS, WING WALLS #1,#2,#3,#4, AND CUT OFF WALLS SHALL BE PRECAST. THE BED RETENTION SILLS SHALL ALSO BE PRECAST AND ATTACHED TO THE BOX AT THE FACTORY. ALL CONNECTIONS SHALL BE DESIGNED AND SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL. ALL PRECAST CONCRETE COMPONENTS WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR CONTRACT ITEM 540.10
4. THE EXTERIOR (TOP AND SIDES) OF ALL CONCRETE BOX JOINTS ALONG WITH ALL LIFTING HOLES SHALL BE FILLED WITH MORTAR TYPE IV AFTER BEING SET IN THEIR FINAL POSITION.
5. A TWO FOOT WIDE STRIP OF MEMBRANE WATERPROOFING SHALL BE APPLIED AT EACH BOX JOINT. THE MEMBRANE SHALL BE CENTERED ON THE JOINT AND COVER THE FULL HEIGHT OF THE SIDE JOINTS. THE TOP OF THE JOINT SHALL THEN BE COVERED WITH THE TWO FOOT STRIP OF MEMBRANE. THE SHEETS SHALL OVERLAP THE EDGES BY ONE FOOT ON EACH SIDE. THE PAYMENT FOR MEMBRANE SHALL BE UNDER ITEM 519.20 "SHEET MEMBRANE WATERPROOFING (PERFORMED SHEET)".

PROJECT: WHITINGHAM	PROJECT NO. : ST CULV (6)
DESIGN FILE NAME: 05c128/structures/s05c128typ.dgn	PLOT DATE: 08-MAR-2006
IPARM FILE NAME: s05c128notes.i	DRAWN BY: M.FESSEL
DESIGNED BY: E.L.RUSTAY	CHECKED BY: M.GAGULIC
SQUAD LEADER: C. P. WILLIAMS	SHEET: 14 OF 34
GENERAL NOTES	