

# GENERAL NOTES

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1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH (17th) EDITION, AND ITS LATEST REVISIONS.
2. IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JULY 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE OF THAT TIME FRAME.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO ANY BROOK, STREAM OR RIVER.
4. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.
5. ACCESS TO ALL DRIVES WILL BE MAINTAINED AT ALL TIMES, DURING THE CONSTRUCTION OF THIS PROJECT.
6. ITEM 529.15 "REMOVAL OF STRUCTURE (14 FEET- CULVERT)" SHALL BE USED FOR REMOVAL OF THE PIPE ARCH AND ANY PORTIONS OF FOOTINGS, HEADWALLS, AND WINGWALLS NOT REMOVED UNDER ITEM 204.25 "STRUCTURE EXCAVATION" OR ITEM 203.27 "UNCLASSIFIED CHANNEL EXCAVATION".
7. ITEM 404.65 "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.

## EARTHWORK AND RELATED ITEMS

8. TEMPORARY CONSTRUCTION FILLS WITHIN THE WATERCOURSE FOR ANY PURPOSE SHALL CONSIST OF CLEAN STONE FILL ONLY. NO OTHER FILLING IN THE STREAM SHALL OCCUR WITHOUT THE APPROVAL OF THE STREAM ALTERATION ENGINEER.

## TEMPORARY DETOUR/TEMPORARY BRIDGE

9. TRAFFIC SHALL BE MAINTAINED ON A STEEL, TWO LANE, TRUSS ON A DETOUR WHICH IS ALREADY IN PLACE.
10. THE TWO-LANE STEEL TRUSS, TEMPORARY BRIDGE THAT IS BEING USED TO MAINTAIN TRAFFIC, WILL BE REMOVED, DISASSEMBLED, CLEANED, SORTED, BUNDLED, AND LOADED FOR TRANSPORT TO THE MENDON STATE GARAGE. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 529.15, REMOVAL OF STRUCTURE (1920 SF - EST). SEE SPECIAL PROVISIONS, SALVAGED MATERIAL.
11. THE TEMPORARY TRAFFIC BARRIER, WHICH IS IN PLACE, IS THE PROPERTY OF THE STATE OF VERMONT, TRANSPORTATION DISTRICT 5. WHEN THE BARRIER IS NO LONGER NEEDED, DISTRICT 5 WILL BE NOTIFIED AND ARRANGMENTS WILL BE MADE TO DELIVER THE BARRIER RAIL TO THE FORT ETHAN ALLEN GARAGE, IN COLCHESTER, AND UNLOAD IT IN A LOCATION DETERMINED BY DISTRICT 5 PERSONNEL. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 900.640, SPECIAL PROVISION, (MAINTENANCE AND REMOVAL OF TEMPORARY TRAFFIC BARRIER). THE CONTRACTOR SHALL CONTACT DISTRICT 5 TRANSPORTATION ADMINISTRATOR, GIL NEWBURY, TWO WEEKS PRIOR TO DELIVERY, AT 802-655-1581 TO ARRANGE DELIVERY AND COORDINATE THE STORAGE LOCATION.
12. THE CONSTRUCTION SIGNS, WHICH ARE IN PLACE, ARE THE PROPERTY OF THE STATE OF VERMONT, TRANSPORTATION DISTRICT 5. THEY WILL REMAIN IN PLACE, AND BE MAINTAINED, CLEANED, AND REPAIRED OR REPLACED IF NECESSARY, BY THE CONTRACTOR. WHEN CONSTRUCTION HAS BEEN COMPLETED, THEY WILL BE REMOVED AND STOCKPILED ON-SITE, FOR REMOVAL BY DISTRICT PERSONNEL. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 641.10, TRAFFIC CONTROL.

## LEDGE

13. NO BORINGS WERE TAKEN ON THIS PROJECT, SUBSURFACE CONDITIONS MAY VARY FROM THE CONDITIONS ASSUMED FOR DESIGN. IF ANY LEDGE IS ENCOUNTERED, THE PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY.

## PRECAST CONCRETE BOX. PRECAST WINGWALLS AND PRECAST HEADWALLS

14. DESIGN CRITERIA:
  - A. SOIL UNIT WEIGHT = 140 PCF
  - B. DESIGN LIVE LOAD = AASHTO HS-25
  - C. WINGWALL FOOTING PRESSURE = MAXIMUM 3 KSF
  - D. F.S. OVERTURNING  $\geq 2.0$
  - E. SLIDING  $\geq 1.5$
15. ALL CONCRETE ITEMS SHALL BE PRECAST CONCRETE INCLUDING ALL BOX SEGMENTS, HEADWALLS, CUTOFF WALLS, BCD RETENTION SILLS AND WINGWALLS. ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND PAYMENT SHALL BE INCIDENTAL TO THE ITEM 540.10 "PRECAST CONCRETE STRUCTURE (14'-0" x 7'-0" x 52'-0" BOX)". ALL PRECAST COMPONENT AND CONNECTION DETAILS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL.
16. THE RESIDENT ENGINEER WILL PROVIDE TO THE CONTRACTOR A STATE OF VERMONT BRIDGE PLAQUE. THIS PLAQUE IS TO BE CAST INTO WINGWALL #2. THE RESIDENT ENGINEER WILL BE NOTIFIED 72 HOURS PRIOR TO THE CASTING OF WINGWALL #2.

17. THE PRECAST BOX SECTIONS ARE SHOWN FOR REFERENCE ONLY. THE ACTUAL DIMENSIONS AND SHAPE WILL BE DEPENDENT ON THE FABRICATOR. THE MINIMUM REQUIREMENTS FOR THE PRECAST BOX ARE TO INCLUDE INSIDE DIMENSIONS TO MEET AN 7'-0" HIGH BY 14'- 0" WIDE OPENING. THE INLET AND OUTLET SEGMENTS SHALL HAVE VERTICAL FACES AS SHOWN IN THE PLANS.
18. ALL LIFTING HOLES SHALL BE FILLED WITH MORTAR TYPE IV AFTER BEING SET IN THEIR FINAL POSITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 540.10 "PRECAST CONCRETE STRUCTURE".
19. THE EXTERIOR (TOP AND SIDES) OF ALL CONCRETE BOX SEGMENT JOINTS SHALL BE FILLED WITH A 7/8" X 1 3/8" PRE-FORMED BITUMINOUS JOINT SEALER. THE SURFACE SHALL BE FREE OF DIRT BEFORE APPLYING THE JOINT MATERIAL. THE JOINT SEALER WILL EXTEND FROM THE BOTTOM OF ONE SIDE OF THE BOX, UP AND ACROSS THE TOP, AND BACK DOWN TO THE BOTTOM OF THE OTHER SIDE OF THE BOX. PAYEMENT FOR THIS MATERIAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO ITEM 540.10 "PRECAST CONCRETE STRUCTURE".
20. A TWO (2) FOOT WIDE STRIP OF MEMBRANE WATEPROOFING SHALL BE APPLIED AT EACH BOX JOINT (TOP AND SIDES.) MEMBRANE SHALL BE CENTERED ON THE JOINT AND COVER THE FULL WIDTH OF THE TOP AND FULL HEIGHT OF THE SIDES. THE SIDES SHALL BE COVERED FIRST AND THE ROOF WILL FOLLOW. ANY OVERLAPPING OF MEMBRANE SHALL BE DONE IN A SHINGLE TYPE STYLE TO SHED WATER AND SHALL OVERLAP A MINIMUM OF ONE(1) FOOT. PAYMENT FOR MEMBRANE SHALL BE UNDER ITEM 519.21 "SHEET MEMBRANE WATERPROOFING,PREFORMED SHEET".
21. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".
22. ITEM 900.625 "SPECIAL PROVISION (WATER REPLELLENT,SILANE)" SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE INSIDE OF THE BOX MEASURED 3 FEET FROM THE OPENING OF EACH END INWARD.
23. IT MAY BE NECESSARY TO DIVERT THE STREAM IN SOME MANNER DURING CONSTRUCTION. PAYMENT FOR THIS WORK WILL MADE UNDER ITEM 900.645, SPECIAL PROVISION, (TEMPORARY RELOCATION OF STREAM).
24. A MINIMUM OF 2' COVER OVER THE BOX MUST BE PROVIDED BEFORE ALLOWING ANY VEHICLE OVER THE STRUCTURE.
25. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:  
SPACING +/- 1"  
CLEARANCE +/- 1/4"
26. THE KEY ON CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT.
27. JOINTS AND SCORE MARKS IN THE CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

## GENERAL NOTES

PROJECT NAME:	BRISTOL	PLOT DATE:	2/20/2007
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