

GENERAL NOTES

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1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, 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 JUNE 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" SHALL BE USED FOR REMOVAL OF THE PIPE AND ANY PORTIONS OF 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.
8. ITEM 621.20 "STEEL BEAM GUARD RAIL (GALVANIZED) SHALL USE 6 FOOT LONG POSTS IN ACCORDANCE WITH STANDARD G-1. CARE SHALL BE TAKEN NOT TO DRIVE THE POSTS TOO DEEP IN THE VICINITY OF THE PRECAST BOX IN ORDER TO AVOID IMPACT WITH THE TOP OF THE BOX.

EARTHWORK AND RELATED ITEMS

9. 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.
10. ITEM 613.10 "STONE FILL, TYPE I" SHALL BE USED AS SHOWN IN THE PLANS AND AT THE DISCRETION OF THE RESIDENT ENGINEER TO PREVENT EROSION BEHIND THE WINGWALLS AND HEADWALLS. PAYMENT SHALL BE MADE UNDER ITEM 613.10, "STONE FILL, TYPE I".

TEMPORARY DETOUR/TEMPORARY BRIDGE

11. TRAFFIC SHALL BE MAINTAINED WITH A MULTI-PHASE SINGLE LANE DETOUR CONTROLLED WITH TRAFFIC SIGNALS.
12. PHASE I OF THE DETOUR WILL UTILIZE THE EAST BOUND LANE WHILE THE OUTLET END OF THE NEW PRECAST BOX IS INSTALLED ALONG WITH WINGWALL 1, 3 AND HEADWALL 1.
13. PHASE II OF THE DETOUR WILL REQUIRE GOING OFF ALIGNMENT TO THE NORTH OR DOWNSTREAM. A TEMPORARY PIPE WILL NEED TO BE PLACED AT THE OUTLET OF THE NEW PRECAST BOX ALREADY INSTALLED. PAYMENT WILL BE MADE UNDER ITEM 528.10 "ONE-WAY TEMPORARY BRIDGE (MOD)".

LEDGE

14. 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

15. DESIGN CRITERIA:
 - A. SOIL UNIT WEIGHT = 125 PCF
 - B. DESIGN LIVE LOAD = AASHTO HS-25
 - C. WINGWALL FOOTING PRESSURE = MAXIMUM 3 KSF
 - D. F.S. OVERTURNING ≥ 2.0
 - E. SLIDING ≥ 1.5
16. ALL CONCRETE ITEMS SHALL BE PRECAST CONCRETE INCLUDING ALL BOX SEGMENTS, HEADWALLS, CUTOFF WALLS, BED 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". ALL PRECAST COMPONENT AND CONNECTION DETAILS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL.
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 8'-0" HIGH BY 15'-0" WIDE OPENING. THE INLET AND OUTLET SEGMENTS SHALL HAVE VERTICAL FACES AS SHOWN IN THE PLANS.

18. THE EXTERIOR (TOP AND SIDES) OF ALL CONCRETE BOX SEGMENT JOINTS ALONG WITH 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. A TWO (2) FOOT WIDE STRIP OF MEMBRANE WATERPROOFING 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 519.20 "SHEET MEMBRANE WATERPROOFING (PERFORMED SHEET)".
20. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".
21. ITEM 514.10 "WATER REPELLENT (MOD.-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.
22. IT WILL BE REQUIRED TO DIVERT THE STREAM IN SOME CAPACITY DURING CONSTRUCTION. REFER TO SPECIAL PROVISION 614.10 (TEMPORARY RELOCATION OF STREAM) FOR DETAILS.

GENERAL NOTES

PROJECT NAME:	BUELS GORE		
PROJECT NUMBER:	STP ST CULV(1)		
FILE NAME:	04c138/str/s04c138gen.xls	PLOT DATE:	05-APR-2006
PROJECT LEADER:	M. EVANS-MONGEON	DRAWN BY:	W. FARLEY
DESIGNED BY:	W. FARLEY	CHECKED BY:	M. EVANS-MONGEON
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