

GENERAL

1. ALL MATERIALS, DESIGN, AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, WITH ITS LATEST REVISIONS AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION WITH INTERIMS THROUGH 2016.
2. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 68°F, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL LOCATE WATER LINES PRIOR TO EXCAVATION FOR EXISTING STRUCTURE REMOVAL. PAYMENT WILL BE MADE UNDER ITEM 204.22, "TRENCH EXCAVATION OF EARTH, EXPLORATORY." REFER TO PROJECT SPECIAL PROVISIONS AND WATERLINE INSTALLATION SHEETS FOR ADDITIONAL INFORMATION.

EARTHWORK, REMOVAL, AND RELATED ITEMS

4. NO ONSITE DISPOSAL OF WASTE MATERIALS SHALL BE ALLOWED.
5. THE EXISTING CGMPPA, HEADWALLS AND WINGWALLS SHALL BE REMOVED IN THEIR ENTIRETY. PAYMENT FOR REMOVAL WILL BE MADE UNDER ITEM 529.15, "REMOVAL OF STRUCTURE (15.83' X 10.67' X 152' CGMPPA)."
6. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL AND PROVIDE A METHOD OF MAINTAINING STREAM FLOW THROUGH THE PROJECT SITE. PAYMENT WILL BE MADE UNDER ITEM 900.645, "SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM)."
7. A LIMITED AMOUNT OF FILL IS AVAILABLE AT THE MIDDLESEX GARAGE FOR CONSTRUCTING THE TEMPORARY BRIDGE APPROACHES. SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TRAFFIC CONTROL

8. THE EXISTING TEMPORARY BRIDGE AND CONSTRUCTION SIGNING ON EXISTING ALIGNMENT SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF THE DOWNSTREAM TEMPORARY ROADWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING TEMPORARY BRIDGE, APPROACHES, AND SIGNING DURING CONSTRUCTION OF THE DOWNSTREAM TEMPORARY ROADWAY. ONCE TRAFFIC IS TRANSFERRED TO THE DOWNSTREAM TEMPORARY ROADWAY, THE EXISTING TEMPORARY BRIDGE SHALL BE DISMANTLED AND DELIVERED TO THE VTRANS MAINTENANCE GARAGE IN MIDDLESEX ALONG WITH ALL EXISTING CONSTRUCTION SIGNING. THE TEMPORARY CONCRETE BLOCKS USED FOR SOIL RETENTION ALONG THE EXISTING TEMPORARY BRIDGE MAY BE USED BY THE CONTRACTOR FOR PARTIAL CONSTRUCTION OF THE TEMPORARY RETAINING WALL ALONG THE PROPOSED TEMPORARY ROADWAY. CONTACT HOBERT GATES AT (802) 505-0910 TO MAKE ARRANGEMENTS FOR DELIVERY. PAYMENT FOR MAINTENANCE, REMOVAL, AND DELIVERY OF THE EXISTING TEMPORARY BRIDGE, CONSTRUCTION SIGNING, AND CONCRETE BLOCKS WILL BE MADE UNDER ITEM 900.645, "SPECIAL PROVISION (REMOVAL OF TEMPORARY BRIDGE)."
9. TRAFFIC SHALL BE MAINTAINED ON A TWO WAY TEMPORARY BRIDGE INSTALLED DOWNSTREAM OF THE EXISTING CULVERT AS SHOWN ON THE PLANS. THE EXISTING TEMPORARY BRIDGE ON EXISTING ALIGNMENT SHALL NOT BE USED FOR THE PROPOSED TEMPORARY BRIDGE ALONG THE PROPOSED TEMPORARY ROADWAY. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
10. A TRAFFIC CONTROL PLAN FOR CONSTRUCTION AND OPERATION OF THE TEMPORARY ROADWAY IS PROVIDED HEREIN. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL ANY NECESSARY MODIFICATIONS OR SUPPLEMENTS TO THE TRAFFIC CONTROL PLAN TO ACCOMMODATE SPECIFIC PHASING AND/OR OPERATIONS FOR THE CONTRACTOR'S INTENDED SEQUENCE OF OPERATIONS.
11. IN THE EVENT OF AN EMERGENCY VEHICLE TRAVERSING THROUGH THE PROJECT AREA, ALL WORK WILL BE IMMEDIATELY STOPPED AND A CLEAR TRAVEL LANE WILL BE PROVIDED TO THE EMERGENCY VEHICLE. WORK CREWS AND FLAGGERS WILL COMMUNICATE THROUGH RADIO AND ENSURE SAFE PASSAGE IS PROVIDED TO ALL EMERGENCY VEHICLES.
12. MAILBOXES FOR THE RESIDENCES LOCATED AT THE FOLLOWING ADDRESSES REQUIRE TEMPORARY RELOCATION AS SHOWN ON THE TRAFFIC CONTROL LAYOUT SHEETS. ANY CHANGES TO THE LOCATIONS OF THESE MAILBOXES SHALL BE COORDINATED WITH THE PROPERTY OWNER AND THE LOCAL POST OFFICE. PAYMENT WILL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL." ADDRESSES INCLUDE:

5563 ROUTE 100 (BLACKMAN AND DOUGLAS PROPERTY)
 5611 ROUTE 100 (CARMINATI PROPERTY)
 5631 ROUTE 100 (WELCH PROPERTY)

CONCRETE

13. ALL SUBSTRUCTURE CONCRETE ABOVE THE FOUNDATION SEAL SHALL BE HIGH PERFORMANCE, CLASS B.
14. FOUNDATION SEAL CONCRETE SHALL BE CLASS C.
15. ALL HORIZONTAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURES DETAIL SHEET SD-502.00.
16. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL CONCRETE SURFACES EXPOSED IN THE FINAL CONDITION, WITH THE EXCEPTION OF THE UNDERSIDE OF THE PRECAST CONCRETE ARCHES.
17. ALL REINFORCING STEEL WITHIN THE PRECAST ARCH, PRECAST WINGWALLS, AND PRECAST HEADWALLS SHALL MEET THE REQUIREMENTS FOR LEVEL I, EPOXY COATED CORROSION RESISTANCE IN ACCORDANCE WITH SECTION 507, UNLESS OTHERWISE NOTED.
18. ALL REINFORCING STEEL WITHIN THE FOOTINGS AND PEDESTAL WALLS SHALL MEET THE REQUIREMENTS FOR LEVEL I CORROSION RESISTANCE IN ACCORDANCE WITH SECTION 507, UNLESS OTHERWISE NOTED.
19. MINIMUM CLEAR COVER SHALL BE AS FOLLOWS:
 - ALONG TOP SURFACE OF PRECAST ARCH STRUCTURE: 2 INCH
 - ALONG BOTTOM SURFACE OF PRECAST ARCH STRUCTURE: 1 1/2 INCH
 - PRECAST WINGWALLS AND HEADWALLS: 2 INCH
 - ELSEWHERE UNLESS OTHERWISE INDICATED: 3 INCH
20. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE.
21. THE CONTRACTOR MAY FABRICATE THE PEDESTAL WALLS AND/OR FOOTINGS USING PRECAST CONCRETE. IF THE CONTRACTOR ELECTS TO USE PRECAST CONCRETE, THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS IN ACCORDANCE WITH SECTION 105. ANY JOINTS WITHIN THE PRECAST COMPONENTS SHALL BE FULLY DESIGNED AND DETAILED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL. ALL COSTS ASSOCIATED WITH DESIGN, DETAILING, AND IMPLEMENTATION OF PRECAST CONCRETE FOR USE ON THE PROJECT SHALL BE INCLUDED IN THE APPROPRIATE PAY ITEM.

PRECAST CONCRETE STRUCTURE

22. VTRANS HAS ACQUIRED AND ARRANGED FOR STORAGE OF PRECAST CONCRETE ARCHES, WINGWALLS, AND HEADWALLS AT WHITE MOUNTAIN PRECAST, LLC (MICHIE CORPORATION) IN HENNIKER, NH. PRECAST COMPONENTS ARE ANTICIPATED TO BE READY FOR DELIVERY ON SEPTEMBER 26, 2016. THE CONTRACTOR SHALL COORDINATE AND PAY FOR THE LOADING AND DELIVERY OF THE PRECAST CONCRETE COMPONENTS AND INSTALL IN ACCORDANCE WITH THESE PLANS, THE CORRESPONDING FABRICATION DRAWINGS, AND SECTION 540. PAYMENT FOR COORDINATION, DELIVERY, AND INSTALLATION SHALL BE MADE UNDER ITEM 540.10, "PRECAST CONCRETE STRUCTURE (ARCHES AND WALLS)." SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
23. SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET SHALL BE APPLIED TO THE TOP AND SIDES OF THE JOINTS BETWEEN ADJACENT PRECAST CONCRETE ARCHES, DOWN TO THE TOP OF PEDESTAL WALL AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SUBSECTION 540.10. PAYMENT SHALL BE INCIDENTAL TO ITEM 540.10, "PRECAST CONCRETE STRUCTURE (ARCHES AND WALLS)".

FOOTINGS ON BEDROCK

24. FOOTINGS AND/OR FOUNDATION SEALS FOR SUBSTRUCTURES FOUNDED ON BEDROCK SHALL BE PLACED ON CLEAN ROCK. ALL LOOSE ROCK AND DEBRIS SHALL BE REMOVED; INTACT WEATHERED ROCK MAY REMAIN.
25. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 3 DAYS PRIOR TO ANTICIPATED EXCAVATIONS REACHING BEDROCK ELEVATION. THE STATE GEOTECHNICAL ENGINEER SHALL WITNESS MATERIALS EXCAVATED AT OR NEAR ANTICIPATED WEATHERED BEDROCK ELEVATION TO ENSURE SUITABLE MATERIAL IS PRESENT TO ATTAIN THE NECESSARY NOMINAL BEARING PRESSURE.
26. ONCE THE ELEVATION OF BEDROCK HAS BEEN DETERMINED, THE CONTRACTOR SHALL PROVIDE A BEDROCK PROFILE TO THE ENGINEER FOR PREPARATION OF AS-BUILT DRAWINGS. FOOTING ELEVATIONS SHALL NOT BE ADJUSTED WITHOUT APPROVAL OF THE ENGINEER.
27. THE PAY LIMITS OF THE FOUNDATION SEAL SHALL BE 2 FT OUTSIDE OF THE HORIZONTAL LIMITS OF THE FOOTING AND TO THE VERTICAL LIMITS DEFINED ON THE PLANS. NO CHANGES TO THESE PAY LIMITS WILL BE MADE FOR ENCOUNTERING EXISTING CONCRETE REMNANTS OR OTHER OBSTRUCTIONS UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. ANY CONCRETE REQUIRED FOR FOUNDATION SEALS WITHIN THE DEFINED PAY LIMITS SHALL BE PAID FOR WITH ITEM 541.30, "CONCRETE, CLASS C." AN ESTIMATED QUANTITY OF ITEM 541.30 HAS BEEN INCLUDED IN THE CONTRACT. ANY CONCRETE PLACED OUTSIDE OF THE IDENTIFIED PAY LIMITS WILL BE AT THE CONTRACTOR'S EXPENSE.
28. ANY BEDROCK THAT NEEDS TO BE REMOVED SHALL BE PAID FOR UNDER ITEM 208.35, "COFFERDAM EXCAVATION, ROCK." OVER-BREAKAGE BEYOND THE AVERAGE MAXIMUM ALLOWANCE SPECIFIED IN SUBSECTION 208.11 (C) WILL BE AT THE CONTRACTOR'S EXPENSE.
29. DOWELS SHALL BE DRILLED AND GROUTED THROUGH THE FOUNDATION SEAL (WHERE APPLICABLE) INTO BEDROCK IN LOCATIONS WHERE THE FOUNDATION SEAL IS LESS THAN 2 FT THICK OR WHERE THE FOOTING RESTS DIRECTLY UPON BEDROCK. THE DOWELS SHALL BE SPACED AND EMBEDDED AS SHOWN ON THE PLANS. PAYMENT WILL BE MADE UNDER ITEM 507.16, "DRILLING AND GROUTING DOWELS." AN ESTIMATED QUANTITY OF ITEM 507.16 HAS BEEN INCLUDED IN THE CONTRACT.
30. THE CONTRACTORS PROPOSED METHOD FOR DEWATERING THE COFFERDAM MAY BE PROVIDED WITH THE EROSION CONTROL PLAN SUBMITTAL INSTEAD OF WITH THE COFFERDAM SUBMITTAL.

ELECTRICAL

31. INSTALLATION OF THE FLASHING BEACON AND CORRESPONDING MATERIALS AND EQUIPMENT SHALL CONFORM TO SECTIONS 678 AND 679. ALL MATERIAL SHALL CONFORM TO SECTION 753. ALL CONDUCTORS SHALL BE COPPER.
32. THE EXISTING FLASHING BEACON NEAR STA 292+75, RT AND CORRESPONDING CONTROLLER CABINET SHALL BE SALVAGED AND REINSTALLED AFTER REMOVAL OF THE TEMPORARY ROADWAY. PAYMENT FOR REMOVAL AND REINSTALLATION WILL BE MADE UNDER ITEM 900.620, "SPECIAL PROVISION (RELOCATE FLASHING BEACON, GROUND MOUNTED)."
33. THE EXISTING METER AND DISCONNECT ASSOCIATED WITH THE EXISTING POWER DROP STANCHION NEAR STA 292+45, RT SHALL BE SALVAGED AND REINSTALLED AFTER REMOVAL OF THE TEMPORARY ROADWAY. PAYMENT WILL BE MADE UNDER ITEM 679.55, "POWER DROP STANCHION, STREET LIGHTING."

WATER LINE

34. THE CONTRACTOR SHALL INSTALL AN 8 INCH, CLASS 52 DUCTILE IRON WATER MAIN OVER THE PRECAST CULVERT IN ACCORDANCE WITH THE INCLUDED "WATERLINE INSTALLATION SHEETS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION TO EXISTING GATE VALVES AND TRANSFERRING SERVICE TO THIS NEW WATER MAIN. REMOVAL OF THE TEMPORARY WATER LINE WILL BE PERFORMED BY OTHERS.
35. THE PROPOSED WATER LINE SITUATED OVER THE PRECAST ARCH SHALL BE INSTALLED DURING BACKFILL OPERATIONS OF THE PRECAST ARCH; NO TRENCH EXCAVATION AFTER COMPLETION OF BACKFILL OPERATIONS WILL BE ALLOWED.
36. INSULATION BOARD(S) SHALL BE INSTALLED DIRECTLY BELOW THE WATERLINE AS NOTED ON WATERLINE INSTALLATION SHEET C2-01, APPROXIMATELY BETWEEN STA 293+15 AND 294+70. PAYMENT FOR FURNISHING AND INSTALLING THE INSULATION BOARD(S) SHALL BE INCIDENTAL TO ITEM 629.24, "DUCTILE IRON PIPE, CEMENT-LINED."
37. THE CONTRACTOR SHALL CONTACT THE WATER LINE ENGINEER A MINIMUM OF 1 WEEK PRIOR TO COMMENCING WORK ON THE WATER LINE. CONTACT JOHN PITROWISKI AT (802) 879-6331.

TYLIN INTERNATIONAL	PROJECT NAME: DUXBURY	
	PROJECT NUMBER: BF 013-4(47)	
	FILE NAME: z16b00ino+es.dgn	PLOT DATE: 5/23/2016
	PROJECT LEADER: J. OLUND	DRAWN BY: S. MORGAN
	DESIGNED BY: J. OLUND	CHECKED BY: D. MYERS
	GENERAL NOTES	SHEET 5 OF 69