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, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2005, AND ITS LATEST REVISIONS.

2. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S DISPOSITION OF THE EXISTING STRUCTURAL STEEL.

3. ALL DIMENSIONS SHOWN ON THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES CELSIUS.

TRAFFIC CONTROL

4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD SHEETS, CURRENT MUTCD REQUIREMENTS, SUBSECTION 104.04 AND SECTION 641.

5. IF THE CONTRACTOR SUBMITS AN ALTERNATE TRAFFIC CONTROL PLAN, THE PLAN MUST MAINTAIN TRAFFIC ON A ROADWAY WIDTH EQUAL TO THE EXISTING TRAVEL LANES. PERMANENT GUARD RAIL MAY BE INCORPORATED IN THE PLAN. NO ADDITIONAL PAYMENT WILL BE MADE IF THE RAILING HAS TO BE REMOVED AND RESET OR REPLACED TO BE ACCEPTABLE FOR THE COMPLETED PROJECT.

6. THE TERMINAL ENDS OF ANY POSITIVE BARRIER MUST BE PROTECTED BY ENERGY ABSORPTION ATTENUATORS OR OTHER APPROVED TERMINAL END TREATMENT IF A MIMIMUM CLEAR ZONE OF TWO METERS FROM THE EDGE OF TRAVELLED WAY IS NOT MAINTAINED. IF USED, ENERGY ABSORPTION ATTENUATORS AND/OR TEMPORARY TRAFFIC BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 621.

7. ANY COSTS ASSOCIATED WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN AND ANY OTHER TRAFFIC CONTROL ON THE PROJECT INCLUDING SIGNS, TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS, ENERGY ABSORPTION ATTENUATORS AND TEMPORARY TRAFFIC BARRIER SHALL BE INCLUDED IN ITEM 641.10, TRAFFIC CONTROL. TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 646.

EARTHWORK AND RELATED ITEMS

8. "STONE FILL, TYPE I" SHALL BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER TO PREVENT EROSION BEHIND THE WINGWALLS.

9. THE "STONE FILL, TYPE III" UNDER THE BRIDGE AS SHOWN IN THE PLANS SHALL BE PLACED PRIOR TO FORMING THE CONCRETE DECK SLAB.

10. AT THE DISCRETION OF THE RESIDENT ENGINEER, AREAS OF EXISTING CHANNEL BANKS THAT APPEAR ADEQUATELY STABLE IN THOSE AREAS OF PROPOSED NEW "STONE FILL, TYPE III" AS SHOWN IN THE PLANS MAY REMAIN UNDISTURBED. THE TRANSITION FROM NEW STONE FILL TO EXISTING STONE FILL SHALL BE SMOOTH AND SHALL NOT IMPEDE NORMAL CHANNEL FLOW.

11. ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE." SHALL INCLUDE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND BRIDGE RAILING. ITEM 203.17, "UNCLASSIFIED EXCAVATION" SHALL INCLUDE REMOVAL OF THE EXISTING SUBSTRUCTURE AND EXCAVATION TO THE GRADES AND LIMITS SHOWN IN THE CROSS SECTIONS AND PLANS.

12. THE FENCE TO BE REMOVED AND RESET FROM STA 40+030 RT. TO DRIVE STA. 6+040 RT. IS FOR HORSES. IT WILL BE RESET TO THE RIGHT OF THE NEW ALIGNMENT IN A LOCATION AGREED UPON BY THE RESIDENT ENGINEER AND THE LANDOWNER. PAYMENT SHALL BE UNDER ITEM 620.50, "REMOVING AND RESETTING FENCE."

13. A PRIVATE WATERLINE CROSSES TH 13 AT STA. 40+076 AND DRIVE 1 AT STA. 6+036. CONTRACT WORK ON THIS WATERLINE SHALL CONSIST OF INSTALLING NEW CURB STOPS, EXTENSION SERVICE BOXES, PLACING NEW WATERLINE WITHIN NEW SLEEVES BETWEEN THE SHUT-OFFS AND TRANSFERRING THE WATER TO THE NEW SYSTEM. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SUBSECTIONS OF SECTION 629-WATER SYSTEMS. THE CONTRACTOR SHALL VERIFY THE EXISTING WATERLINE DIAMETER AND TYPE PRIOR TO ORDERING MATERIALS. ITEM 204.22, TRENCH EXCAVATION OF EARTH, EXPLORATORY, HAS BEEN INCLUDED FOR LOCATING THE WATERLINE. ALL OTHER EXCAVATION AND BACKFILL ASSOCIATED WITH THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE ITEM "SLEEVES FOR UTILITIES". AGENCY PERSONNEL WILL CONDUCT WATER SAMPLING (SPECIMEN WILL BE TESTED BY THE VERMONT DEPARTMENT OF HEALTH LABORATORY) AFTER THIS WORK IS COMPLETED AND THE WATER SYSTEM HAS BEEN DISINFECTED. NO PAYMENT WILL BE MADE FOR ANY OF THE WATERLINE WORK UNTIL THE TESTS RESULTS SHOW A BACTERIA LEVEL OF ZERO (0) AND THE TESTS SHOW THAT IT IS POTABLE.

14. DURING THE WATERLINE WORK AND TESTING, THE CONTRACTOR MUST MAINTAIN A WATER SUPPLY FOR THE PROPERTY OWNER. THE WATER SUPPLY MUST BE ADEQUATE TO MEET THE NEEDS OF THE PROPERTY OWNER AND BE APPROVED BY THE OWNER AND ENGINEER. A POTABLE WATER SUPPLY WILL ALSO BE SUPPLIED AND REPLENISHED AS NECESSARY. ALL COSTS ASSOCIATED WITH MAINTAINING THE WATER SUPPLY WILL BE CONSIDERED INCIDENTAL TO ITEM 629.42 "TRANSFER TO NEW SYSTEM, WATER SYSTEM".

15. BEDROCK MAY BE ENCOUNTERED DURING EXCAVATION FOR ABUTMENT FOOTINGS. EXCAVATION OF THE LEDGE SHALL BE PAID FOR UNDER ITEM 208.35, "COFFERDAM EXCAVATION, ROCK".

15.1. FOOTINGS OR SUBFOOTINGS FOR SUBSTRUCTURES FOUNDED ON BEDROCK SHALL BE PLACED ON CLEAN COMPETENT ROCK. ALL LOOSE ROCK AND DEBRIS SHALL BE REMOVED.

15.2. UPON COMPLETION OF THE EXCAVATION FOR SUBSTRUCTURES FOUNDED ON BEDROCK AND PRIOR TO PLACING FORMWORK, THE RESIDENT ENGINEER SHALL CONTACT THE VTRANS SOILS AND FOUNDATION ENGINEER TO INSPECT THE BEDROCK. THE STRUCTURES ENGINEER WILL BE NOTIFIED THAT THE BEDROCK IS READY FOR INSPECTION. THE SOILS AND FOUNDATION ENGINEER WILL DETERMINE IF THE BEDROCK IS COMPETENT TO OBTAIN THE NOMINAL BEARING RESISTANCE AS SHOWN ON THE PLANS. FIVE (5) WORKING DAYS FROM NOTIFICATION SHALL BE ALLOWED TO MAKE THE INSPECTION AND THE DETERMINATION OF THE COMPETENCY OF THE BEDROCK.

15.3. IF COMPETENT BEDROCK IS WITHIN 1'-0" BELOW THE DESIGN BOTTOM OF FOOTING FOR THE EXTENT OF THE SUBSTRUCTURE AS SHOWN IN THE CONTRACT PLANS, THE FOOTING MAY BE PLACED INTEGRALLY TO THE TOP OF THE BEDROCK USING THE CONCRETE ITEM SPECIFIED FOR THE FOOTING AT THE CONTRACT UNIT PRICE.

15.4. WHERE COMPETENT BEDROCK IS BELOW THE DESIGN BOTTOM OF FOOTING BY MORE THAN 1'-0" FOR ANY PORTION OF THE SUBSTRUCTURE AND A SUBFOOTING IS NOT SHOWN IN THE CONTRACT PLANS, THE STRUCTURES ENGINEER SHALL BE CONTACTED TO DETERMINE WHETHER OR NOT THE FOOTING SHALL BE LOWERED OR IF THE CONSTRUCTION OF A SUBFOOTING IS REQUIRED. IF THE DESIGN BOTTOM OF FOOTING ELEVATION IS TO BE LOWERED, THE CONTRACTOR SHALL PROVIDE A BEDROCK PROFILE TO THE STRUCTURES ENGINEER. THREE (3) WORKING DAYS FROM RECEIPT OF THE BEDROCK PROFILE SHALL BE ALLOWED TO MAKE THIS DETERMINATION. NO WORK SHALL BE DONE ON THE FOOTINGS UNTIL A REPLY IS RECEIVED.

15.5. THE LIMITS OF SUBFOOTINGS SHALL BE 1'-0" OUTSIDE OF THE HORIZONTAL LIMITS OF THE FOOTING. IF A SUBFOOTING IS REQUIRED AND NOT SHOWN IN THE CONTRACT IT SHALL BE DONE AS EXTRA WORK. THE TOP SURFACE OF ALL SUBFOOTINGS SHALL BE INTENTIONALLY ROUGHENED TO ¼" AMPLITUDE.

15.6. WHERE COMPETENT BEDROCK IS ABOVE THE DESIGN BOTTOM OF FOOTING ELEVATION, IT SHALL BE REMOVED WITH CONTRACT PAY ITEMS OR A BEDROCK PROFILE SHALL BE PROVIDED BY THE CONTRACTOR TO THE STRUCTURES ENGINEER TO DETERMINE WHETHER THE DESIGN BOTTOM OF FOOTING ELEVATION MAY BE RAISED. THREE (3) WORKING DAYS FROM RECEIPT OF THE BEDROCK PROFILE SHALL BE ALLOWED TO MAKE THE DETERMINATION. FOOTING ELEVATIONS SHALL NOT BE ADJUSTED WITHOUT APPROVAL OF THE STRUCTURES ENGINEER.

15.7. OVERBREAKAGE AND REPLACEMENT WITH THE FOOTING CONCRETE BEYOND THE AVERAGE MAXIMUM ALLOWANCE SPECIFIED IN SUBSECTIONS 204.09(B)(1) AND 208.11(C) WILL BE AT THE CONTRACTOR'S EXPENSE.

15.8. DOWELS SHALL BE DRILLED AND GROUTED INTO BEDROCK WHEN SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE DOWELS SHALL HAVE A 2'-0" MINIMUM EMBEDMENT IN THE BEDROCK AND SHALL EXTEND IN THE FOOTING OR SUBFOOTING A MINIMUM OF 1'-6", UNLESS NOTED OTHERWISE.

CONCRETE AND REINFORCING STEEL

16. ALL DECK SLAB, APPROACH SLAB, CURB, AND SUBSTRUCTURE CONCRETE SHALL BE ITEM 501.34 "CONCRETE, HIGH PERFORMANCE CLASS B".

17. APPLY "WATER REPELLENT, SILANE" TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE TOP OF DECK SLAB AND THE UNDERSIDE OF DECK SLAB BETWEEN DRIP NOTCHES.

18. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 MILLIMETERS X 25 MILLIMETERS.

19. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE RESIDENT ENGINEER.

20. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. PLACE UPWARD KEYS INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.

21. ALL SUPERSTRUCTURE REINFORCING STEEL SHALL BE ITEM 507.17 "EPOXY COATED REINFORCING STEEL". FLAME CUTTING OF EPOXY COATED REINFORCING STEEL WILL NOT BE PERMITTED. REPAIR CUT ENDS WITH MATERIALS AND PROCEDURES APPROVED BY THE COATING MANUFACTURER.

22. MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS INDICATED IN THE PLANS.

PROJECT NOTES

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PROJECT NUMBER: BRO 1442(24)

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PROJECT LEADER: R. WHITCOMB
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