

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.
2. THE INCLUDED RECORD PLAN SHEETS (9-41) ARE FROM THE ORIGINAL PROJECT MODIFIED TO SHOW THE WORK THAT NEEDS TO BE COMPLETED.
3. BRIDGE COMPONENTS BEING REPLACED ARE DESIGNED FOR AN HS-25 LIVE LOAD.
4. STRUCTURAL STEEL AND GRID DECK WILL BE DELIVERED BY THE FABRICATORS TO THE OLD CAUSEWAY WITHIN THE PROJECT LIMITS.
5. A MINIMUM OF ONE LANE, TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
6. NOTE NOT USED
7. THE CONTRACTOR SHALL MAINTAIN TEMPORARY ON AND OFF-PROJECT SIGNS AND BARRICADES AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR MAINTAINING EXISTING CONSTRUCTION SIGNS WILL BE MADE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
8. FULL ACCESS TO ALL SIDE ROADS AND DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL."
9. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
10. THE ITEM 631.10, FIELD OFFICE ENGINEERS SHALL INCLUDE PROVIDING ALL OF THE OFFICE EQUIPMENT AND SUPPLIES AS SPECIFIED IN SECTION 631 OF THE STANDARD SPECIFICATIONS, EXCEPT FOR A DRAFT TABLE, STORAGE CABINET, PLAN FILE, PLAN RACK, LOCKER FOR SURVEYING EQUIPMENT, AND A CALCULATOR. THE OPERATOR'S HOUSE, LOCATED AT STA. 608+10 RT, MAY BE USED TO HOUSE THIS EQUIPMENT, IF THE CONTRACTOR SO CHOOSES. IF THE OPERATOR'S HOUSE IS USED, THE CONTRACTOR SHALL PROVIDE HEATING EQUIPMENT, A POTABLE WATER SUPPLY AND SANITARY FACILITIES AS THE BUILDING IS NOT WINTERIZED. PAYMENT FOR THIS WILL BE INCLUDED IN THE ITEM 631.10, FIELD OFFICE, ENGINEERS.

TEMPORARY BRIDGE AND BARRIERS

11. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED ON AN EXISTING ONE-WAY TEMPORARY BRIDGE CONSTRUCTED OVER THE NORTH LANE OF EXISTING STRUCTURE. MAINTENANCE OF THE TEMPORARY BRIDGE AND ITS APPROACHES SHALL BE PAID FOR UNDER ITEM 527.10, MAINTENANCE OF STRUCTURES AND APPROACHES.
12. THE REMOVAL OF THE EXISTING TEMPORARY BRIDGE AND ITS APPROACHES WILL BE PAID FOR UNDER CONTRACT ITEM 529.15, REMOVAL OF STRUCTURE (2100 SF - EST).
13. THE CONTRACTOR SHALL REMOVE AND RESET THE TEMPORARY TRAFFIC BARRIERS FROM THE LOCATIONS SHOWN ON SHEET 7 TO THE LOCATIONS SHOWN ON SHEET 8 WHEN THE TEMPORARY BRIDGE IS NO LONGER NEEDED. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 621.95, REMOVE AND RESET TEMPORARY TRAFFIC BARRIER.
14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING TEMPORARY TRAFFIC BARRIER DURING CONSTRUCTION. WHEN THE PROJECT IS COMPLETE THE BARRIERS, AND CONCRETE BLOCKS, WHICH WERE ORIGINALLY PROVIDED BY DISTRICT 8 WILL BE REMOVED AND RETURNED TO THE DISTRICT 8 GARAGE LOCATED IN NORTH HERO, CONTACT PERSON IS GEORGE DECELL, (802) 524-5926. PAYMENT FOR MAINTENANCE AND REMOVAL OF THE EXISTING TEMPORARY TRAFFIC BARRIERS WILL BE MADE UNDER CONTRACT ITEM 900.640 SPECIAL PROVISION (MAINTENANCE AND REMOVAL OF TEMPORARY TRAFFIC BARRIER). PAYMENT FOR REMOVAL OF THE CONCRETE BLOCKS WILL BE INCIDENTAL TO THIS ITEM.
15. ADDITIONAL TEMPORARY TRAFFIC BARRIER WILL BE NEEDED, ONCE THE TEMPORARY BRIDGE IS REMOVED. SEE SHEET 8, THE CONTRACTOR WILL PROVIDE THIS BARRIER. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM 621.90, TEMPORARY TRAFFIC BARRIER.
16. RELOCATION OF TYPE III BARRICADES AND ATTENUATORS TO BE INCIDENTAL TO 641.10, TRAFFIC CONTROL. PAYMENT FOR REPLACEMENT OF THE ATTENUATOR, IF NECESSARY, WILL BE MADE IN ACCORDANCE WITH SUBSECTION 621.14.

STRUCTURAL STEEL

17. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

STRUCTURAL STEEL: $F_y = 50,000$ PSI

18. NOTE NOT USED
19. ALL FIELD CONNECTIONS SHALL BE MADE USING 7/8 INCH BOLTS MEETING AASHTO M 164, TYPE 1. UNLESS OTHERWISE NOTED, HOLE DIAMETER SHALL BE 15/16 INCH. ANY CONNECTIONS NOT DESIGNATED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
20. ALL WELDING SHALL CONFORM TO SUBSECTION 506.10.
21. THE NEW FLOOR BEAMS ARE TO BE CONNECTED TO THE EXISTING ANGLES ON THE BASCULE GIRDERS. THE CONNECTION SURFACES OF THESE EXISTING ANGLES SHALL BE CLEANED FOLLOWING THE REQUIREMENT OF SUBSECTION 513.04, SURFACE PREPARATION, PRIOR TO MAKING THE NEW CONNECTIONS. PAYMENT FOR THE CLEANING WILL BE UNDER ITEM 513.41, SURFACE PREPARATION, FIELD (1 TON). THE EXISTING STEEL IS COATED WITH RED LEAD PAINT. ENVIRONMENTAL PROTECTION, CONFORMING TO SUBSECTION 513.03(B) MUST BE USED IN REMOVING THE PAINT IN THESE AREAS. PAYMENT WILL BE MADE UNDER ITEM 513.36, CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD FOR THIS WORK.
22. THE NEW METAL GRID DECKING WILL BE GALVANIZED TO AASHTO M232M/232M. IT WILL BE ATTACHED TO THE NEW FLOOR BEAMS BY MEANS OF A BOLTED CONNECTION. THE DETAILS OF THE CONNECTION WILL BE PROVIDED BY THE STEEL GRID MANUFACTURER. THE CONTRACTOR SHALL FIELD DRILL HOLES IN THE STRUCTURAL STEEL TO ATTACH THE DECKING. PAYMENT FOR CONNECTING THE STEEL GRID DECKING WILL BE PAID FOR UNDER ITEM 900.670, SPECIAL PROVISION (INSTALLATION OF GRID DECK)(FPQ).
23. THE EXISTING CONNECTIONS BETWEEN THE FLOOR BEAMS AND THE ANGLES ON THE GIRDERS ARE RIVETED CONNECTIONS. THE CONTRACTOR WILL REMOVE THE RIVETS BY DRILLING THEM OUT. ONCE THE RIVETS ARE REMOVED, THE HOLE WILL BE DRILLED TO 15/16" TO ACCOMMODATE THE BOLTS FOR THE NEW CONNECTIONS. THE WORK WILL BE INCLUDED IN THE BID PRICE FOR ITEM 900.635, SPECIAL PROVISION (INSTALLATION OF STRUCTURAL STEEL)(FPQ).
24. THE SHIMS FOR THE BASCULE GIRDER BEARINGS WILL BE REPLACED AS PART OF THIS CONTRACT. SHEET 20 SHOWS DETAILS OF THESE SHIMS. THIS WORK WILL BE INCLUDED IN THE BID PRICE FOR ITEM 900.635, SPECIAL PROVISION (INSTALLATION OF STRUCTURAL STEEL)(FPQ). THE SHIM PLATES WILL BE PROVIDED TO THE CONTRACTOR. ANY WORK NEEDED TO JACK UP THE END OF THE GIRDER IN ORDER TO INSTALL THESE SHIMS WILL BE CONSIDERED INCIDENTAL TO ITEM 900.635, SPECIAL PROVISION (INSTALLATION OF STRUCTURAL STEEL)(FPQ).
25. THE DIAMOND PLATED FLOOR SUPPORTING THE LOCK BAR MACHINERY MUST BE SHORED WHILE REPLACING THE FLOOR BEAMS UNDER IT, REFER TO SHEETS 19, 20, AND 25. PAYMENT FOR THIS ITEM WILL BE ITEM 502.10, SHORING SUPERSTRUCTURE. THE ENDS OF FB#25 AND FB#26 MUST BE SUPPORTED WHILE FB#34 AND FB#35 ARE BEING REPLACED SEE SHEETS 16, 17, AND 18. PAYMENT FOR THIS WORK WILL ALSO BE INCLUDED IN THE ITEM 502.10, SHORING SUPERSTRUCTURE.
26. THE ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE WILL INCLUDE THE REMOVAL OF FLOORBEAMS AND CROSS FRAMES AS INDICATED ON SHEETS 13, 14, 15, AND 18. IT WILL ALSO INCLUDE REMOVAL OF OPEN STEEL GRID DECK, AS INDICATED ON SHEETS 19 AND 20. ALL OF THIS MATERIAL IS COATED WITH RED LEAD PAINT. PAYMENT FOR PARTIAL REMOVAL OF STRUCTURE WILL BE FULL COMPENSATION REMOVAL OF THESE COMPONENTS. ONCE REMOVED, THEY BECOME THE PROPERTY OF THE CONTRACTOR, WHO SHALL DISPOSE OF THEM PROPERLY. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE HARMLESS REGARDING THE DISPOSITION OF THE EXISTING STEEL TO BE REMOVED.
27. THE LIGHTWEIGHT CONCRETE FILLED PORTION OF THE DECK WILL BE REMOVED 4 INCHES ON BOTH BASCULE SPANS TO ALLOW THE STEEL GRID DECK TO BE SUPPORTED BY FLOORBEAMS AS DIMENSIONED AND SHOWN ON SHEETS 19 AND 20, PAYMENT FOR THIS WORK WILL BE INCIDENTAL TO ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE.

CONCRETE

28. CONCRETE FILLED PORTION OF GRID DECK ON THE BASCULE SPAN WILL BE CLEANED OF ANY LOOSE OR CRACKED CONCRETE AS SHOWN ON SHEETS 19 AND 20, UNDER ITEM 580.10, REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I AS DIRECTED BY THE RESIDENT ENGINEER.

28. THE LIGHTWEIGHT CONCRETE IN THE CONCRETE FILLED REMOVABLE PANELS AND ALL ASSOCIATED WORK WILL BE PAID FOR UNDER ITEM 541.40, CONCRETE, CLASS LW. THE CONTRACTOR SHALL PLACE THE CONCRETE IN THE CONCRETE FILLED REMOVABLE PANELS OFF SITE IN A CONTROLLED ENVIRONMENT, UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER. THE UNIT WEIGHT OF THIS CONCRETE SHALL NOT EXCEED 103 POUNDS PER CUBIC FOOT. PANELS SHALL NOT BE TRANSPORTED UNTIL THE 10 DAY CURE PERIOD HAS ELAPSED AND THE CONCRETE HAS ACHIEVED 85% OF ITS DESIGN STRENGTH.

STAGING

29. THE ROADWAY THAT RUNS PARALLEL TO US 2 ON THE NORTH SIDE FROM STATION 595+00 TO 608+00 MAY BE USED FOR STAGING, PARKING, ETC. ACCESS THROUGH THIS ROAD, FROM THE ENTRANCE AT STATION 598+25, TO THE LAKE, MUST BE MAINTAINED AT ALL TIMES FOR USE BY ANGLERS. ACCESS AT THIS LOCATION, STATION 598+25 THROUGH TO THE DRIVE TO THE MARINA MUST ALSO BE MAINTAINED AT ALL TIMES.
30. BARGES MAY BE USED IN ACCOMPLISHING THIS WORK WITH THE FOLLOWING RESTRICTIONS. THERE WILL BE NO SHORELINE DISTURBANCE FOR LAUNCHING THE BARGES. THERE WILL BE NO ICE BREAKING IN ORDER TO MAINTAIN A CLEAN CHANNEL FOR RE-POSITIONING BARGES, OR FOR ANY OTHER PURPOSE. THERE WILL BE NO DISTURBANCE OF THE LAKE BOTTOM, BELOW ORDINARY HIGH WATER.

PROJECT NAME:	NORTH HERO-GRAND ISLE
PROJECT NUMBER:	BHF 028-I (2I)
FILE NAME:	structures\92b284gennotes
PROJECT LEADER:	M. EVANS MONGEON
DESIGNED BY:	S. SCRIBNER
PLOT DATE:	24-OCT-2007
DRAWN BY:	L. DUQUETTE
CHECKED BY:	S. SCRIBNER
SHEET	3 OF 41