

GENERAL

- 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 BRIDGE DESIGN SPECIFICATIONS, DATED 2002, AND ITS LATEST REVISIONS.
- DURING THIS PROJECT, EASTBOUND VT 11 TRAFFIC WILL BE MAINTAINED ON A ONE WAY DETOUR ON TOWN OF SPRINGFIELD STREETS. WESTBOUND TRAFFIC WILL BE MAINTAINED BY PHASED CONSTRUCTION OF THE NEW SUPERSTRUCTURE.
- EXISTING DIMENSIONS:** THESE PLANS WERE PREPARED BASED ON INFORMATION OBTAINED FROM REFERENCE PLAN SHEETS 62 - 72. DIMENSIONS AND ANGLES OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ENSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER. NO EXTRA PAYMENT WILL BE MADE FOR OBTAINING THE NECESSARY MEASUREMENTS.
- ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.

EARTHWORK AND RELATED ITEMS

- ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" SHALL INCLUDE:
 - BRIDGE RAILING (REMOVAL ONLY - METAL ELEMENTS WILL BE REUSED)
 - CONCRETE DECK, CURTAIN WALLS, AND SIDEWALKS REMOVED TO BRIDGE SEAT ELEVATIONS
 - BEAM 10, SPAN 1
 - ALL EXISTING BEARINGS
 - DIAPHRAGMS TO BE REPLACED WITH NEW DIAPHRAGMS AS INDICATED ON SHEET 25
 - FOUR EXISTING ORNAMENTAL LIGHT POSTS (REMOVAL ONLY - LIGHT POSTS/LUMINARIES WILL BE REUSED)
 - EXISTING SEWER LINE ON BRIDGE AND ITS SUPPORT STRUCTURE

STRUCTURAL STEEL

- NEW BEAM 10, NEW DIAPHRAGMS, CONNECTION PLATES, DRIP PLATES AND SEWER SUPPORT BEAMS WILL BE PAID FOR UNDER THE ITEM 506.50 "STRUCTURAL STEEL, ROLLED BEAM".
- THE NEW COVER PLATE INSTALLED ON BEAM 2 WILL BE PAID FOR UNDER ITEM 506.60, "STRUCTURAL STEEL".
- THE STRUCTURAL STEEL AND ALL WORK ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE WEBS AT THE PIER WILL BE PAID FOR UNDER THE ITEM 506.75, "STRUCTURAL STEEL". SHORING OF THE BEAMS UNDER REPAIR SHALL BE PAID FOR UNDER ITEM 502.10, "SHORING SUPERSTRUCTURE". SHORING SHALL CONSIST OF SUPPORTING THE BEAM IN PLACE AND PROVIDING A MEANS OF MAINTAINING THE FLANGE TO FLANGE DISTANCE AND INTEGRITY.
- ALL NEW STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270M/M 270, GRADE 36 OR 50 (PAINTED).
- CONNECTIONS NOT DETAILED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
- ALL NEW STRUCTURAL STEEL ELEMENTS SUBJECT TO TENSION SHALL MEET THE CHARPY V-NOTCH REQUIREMENTS. THESE MEMBERS ARE DESIGNATED BY (CVN).
- THE METHOD OF REMOVING THE EXISTING WELDS CONNECTING SEWER SUPPORT BEAMS TO THE BRIDGE BEAMS SHALL BE SUBMITTED TO THE STRUCTURES ENGINEER. SUBMIT IN ACCORDANCE WITH SUBSECTION 105.03 OF THE STANDARD SPECIFICATIONS. NO WORK SHALL BE DONE ON THE REMOVAL UNTIL THE METHOD IS APPROVED. ALL WELD MATERIAL SHALL BE GROUND FLUSH WITH BOTTOM OF FLANGE. COSTS OF THIS WORK SHALL BE INCIDENTAL TO ITEM 529.20.
- THE EXISTING STRUCTURAL STEEL ON THIS PROJECT WAS PAINTED WITH A MATERIAL WHICH MAY CONTAIN LEAD. THE REMOVED STRUCTURAL STEEL IS TO BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE STRUCTURAL STEEL.

PAINTING

- ALL EXISTING STRUCTURAL STEEL SHALL BE PAINTED. 100% OF ALL EXISTING STRUCTURAL STEEL PAINT COATING IS TO BE REMOVED AND THE STEEL SURFACES SHALL BE FIELD PREPARED FOR PAINTING, AS PER SECTION 513.
- ALL NEW STEEL ELEMENTS UNDER PAY ITEMS 506.50, "STRUCTURAL STEEL, ROLLED BEAM", 506.60, "STRUCTURAL STEEL" AND ITEM 506.75 "STRUCTURAL STEEL" SHALL BE GIVEN AN APPROVED SHOP APPLIED PAINTING SYSTEM PER SPECIFICATION 513.

- THE PAINT SYSTEM USED IN THE FIELD AND THE SHOP APPLIED PAINT SYSTEM SHALL BE COMPATIBLE AND PROVIDED FROM THE SAME MANUFACTURER.
- COLOR OF THE FINAL COAT OF PAINT SHALL BE GREEN (COLOR CHIP 14062) IN ACCORDANCE WITH FEDERAL STANDARD NO. 595. AND SUBSECTION 708.03.
- AFTER THE FINAL COAT OF PAINT HAS BEEN APPLIED AND HAS THOROUGHLY CURED, THE BEAM ENDS AT THE ABUTMENTS AND PIERS SHALL BE GREASED PER SECTION 513. PAYMENT FOR THE GREASE SHALL BE INCLUDED IN THE UNIT PRICED BID FOR ITEM 513.30, "STRUCTURAL STEEL PAINTING, FIELD APPLIED." THE COLOR OF THE GREASE SHALL BE GREEN.

CONCRETE

- DECK (INCLUDING CURTAIN WALLS AND SIDEWALKS) SHALL BE HIGH PERFORMANCE CLASS A CONCRETE AND SHALL BE PAID FOR UNDER ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CLASS A".
- THE DECK IS TO BE POURED IN ONE CONTINUOUS POUR WITH A MAXIMUM DURATION OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A TRANSVERSE CONSTRUCTION JOINT SHALL BE USED BETWEEN ADJACENT POURS. A MINIMUM 96 HOUR DELAY BETWEEN ADJACENT POURS SHALL BE OBSERVED.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH X 1 INCH.
- WATER REPELLENT, SILANE (ITEM 514.10) SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES. SEE SUPPLEMENTAL SPECIFICATION 514.
- JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL SUPERSTRUCTURE REINFORCING STEEL SHALL BE EPOXY COATED AND PAID FOR UNDER ITEM 507.17, "EPOXY COATED REINFORCING STEEL" EXCEPT IN NEW BRIDGE RAILING, WHICH SHALL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (BRIDGE RAILING REPAIR, PIPE AND SPINDLE)". CUTTING AND REPAIRING DAMAGED AREAS OF COATED REINFORCING STEEL SHALL BE PERFORMED IN ACCORDANCE WITH SUBSECTION 507.04 OF THE STANDARD SPECIFICATIONS.
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS INDICATED IN THE PLANS.

UTILITIES

- THE CONTRACTOR SHALL INSTALL PROTECTIVE MEASURES AND USE EXTREME CARE TO ENSURE THAT NO DAMAGE OCCURS TO THE EXISTING PHONE LINES, FIRE ALARM, WATER LINE AND SEWER LINE. ANY COSTS ASSOCIATED WITH THE PROTECTION WILL BE CONSIDERED INCIDENTAL TO THE ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".
- THE EXISTING SEWER LINE LOCATED ON THE DOWNSTREAM SIDE OF THE STRUCTURE WILL BE REPLACED WITH A NEW SEWER LINE ON THE UPSTREAM FASCIA AS SHOWN ON CONSULTANT DRAWING SHEETS U2 THRU U5. PAYMENT FOR ALL WORK AND MATERIALS ASSOCIATED WITH THE SEWER LINE BETWEEN SEWER MANHOLES #3 AND #4 WILL BE PAID FOR UNDER ITEM 900.645, "SEWER MAIN ON BRIDGE", **EXCEPT FOR THE SEWER SUPPORT BEAMS.**
- ALL OTHER SEWER LINE WORK DETAILED ON SHEETS U1 THRU U5 SHALL BE PAID FOR UNDER THEIR RESPECTIVE CONTRACT PAY ITEMS. ITEM 628.42, "TRANSFER TO NEW SYSTEM, SANITARY SEWER" SHALL INCLUDE ALL SEWAGE TRANSFER WORK DESCRIBED ON SHEETS U1 THRU U5 INCLUDING TEMPORARY BYPASS PUMPING. COSTS OF WORK AND MATERIALS ASSOCIATED WITH ABANDONING EXISTING MANHOLES AND SEWER PIPES SHALL ALSO BE INCLUDED IN THIS ITEM. WHERE EXISTING MANHOLES AND/OR PIPES ARE TO BE COMPLETELY REMOVED, PAYMENT SHALL BE MADE UNDER APPROPRIATE TRENCH EXCAVATION AND BACKFILL ITEMS. WHERE BACKFILL MATERIALS SHOWN ON SHEETS U1 THRU U5 DIFFER FROM MATERIALS SPECIFIED IN STANDARD SPECIFICATIONS, THE STANDARD SPECIFICATIONS SHALL CONTROL.
- THE EXISTING WATER LINE SHALL REMAIN IN PLACE DURING THE CONSTRUCTION OF THE NEW SUPERSTRUCTURE. THE WATER LINE IS SUPPORTED BY DIAPHRAGMS BETWEEN BEAMS 2 AND 3 AND BEAMS 12 AND 13. THE CONTRACTOR SHALL CONSTRUCT WALL SLEEVES AND PLACE A "LINK-SEAL" AT EACH CURTAIN WALL AS DETAILED ON SHEET U4 OF CONSULTANT UTILITY DETAILS. THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CONCRETE CLASS A". IF NECESSARY AND WITH THE PERMISSION OF THE TOWN, THE WATERLINE MAY BE SHUT DOWN FOR SHORT PERIODS OF TIME. CONTACT WATER DEPARTMENT SUPERINTENDENT, JEFF STRONG, AT (802)886-2208 FOR PERMISSION AND TIME RESTRICTIONS.

BRIDGE RAILING

- ALL METAL ELEMENTS OF THE EXISTING BRIDGE RAILING SHALL BE REMOVED. CARE MUST BE UTILIZED IN THE REMOVAL OF THE RAILING TO PREVENT DAMAGE TO THE RAILING AND CONNECTIONS. THE REMOVAL OF THE RAILING ELEMENTS WILL BE PAID FOR UNDER ITEM 509.20, "PARTIAL REMOVAL OF STRUCTURE".
- ALL THE METAL RAILING ELEMENTS SHALL BE CLEANED, PAINTED AND REPAIRED IN ACCORDANCE WITH SPECIFICATION SECTIONS 506 AND 513. THE FINAL COAT OF PAINT SHALL BE GREEN (COLOR CHIP 14062). THE WORK WILL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (BRIDGE RAILING REPAIR, PIPE AND SPINDLE)".
- ANY MISSING OR DAMAGED METAL RAIL ELEMENTS SHALL BE REPLACED IN KIND. THE RESIDENT ENGINEER SHALL DETERMINE WHICH PIECES OF THE RAILING NEED REPLACEMENT OR REPAIR WITH PAYMENT MADE UNDER ITEM 900.640, "SPECIAL PROVISION (BRIDGE RAILING REPAIR, PIPE AND SPINDLE)".
- PRIOR TO THE REMOVAL OF THE EXISTING BRIDGE RAILING, THE CONTRACTOR SHALL TAKE DETAILED MEASUREMENTS AND MAKE DRAWINGS AS NECESSARY OF THE EXISTING RAIL ELEMENTS TO ENSURE THAT THE RAILING IS RECONSTRUCTED TO THE EXISTING DIMENSIONS AND APPEARANCE.

TRAFFIC CONTROL

- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING ALL ON AND OFF PROJECT DETOUR SIGNS. SEE TRAFFIC CONTROL SHEETS: 12-21. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL."
- ANY REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE INCIDENTAL TO THE ITEM 641.10, TRAFFIC CONTROL.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED. PEDESTRIANS WILL BE DETOURED TO EITHER THE UPSTREAM OR DOWNSTREAM SIDEWALK DURING CONSTRUCTION DEPENDING ON WHICH CONSTRUCTION PHASE IS BEING UNDERTAKEN.
- ALL TEMPORARY PAVEMENT MARKINGS USED ON THE DETOUR SHALL BE PAID UNDER ITEM 641.10, "TRAFFIC CONTROL" AND SHALL MEET THE REQUIREMENTS OF SECTION 646.
- FULL ACCESS TO ALL SIDE ROADS AND DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. IF THE CONTRACTOR MUST RESTRICT ACCESS, THEY MUST NOTIFY THE PROPERTY OWNERS AND TOWN IN ADVANCE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL."
- TWO PORTABLE CHANGEABLE MESSAGE SIGNS ARE INCLUDED IN THE CONTRACT AND ARE TO BE LOCATED AND DISPLAY MESSAGES AS DIRECTED BY THE ENGINEER.

ENERGY ATTENUATOR NOTES

- ENERGY ABSORPTION ATTENUATORS WILL BE PLACED AS SHOWN ON THE TRAFFIC CONTROL SHEETS. THE ENERGY ABSORPTION ATTENUATORS FOR THIS PROJECT SHALL BE SUITABLE FOR A NARROW WIDTH APPLICATION AND SHALL BE INSTALLED AS SHOWN ON THE TRAFFIC CONTROL PLANS SHEETS. THESE ATTENUATORS WILL BE PAID AS ITEM, 621.56, "ENERGY ABSORPTION ATTENUATOR."
- THE ATTENUATORS SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE AASHTO "ROADSIDE DESIGN GUIDE" AND SHALL BE DESIGNED FOR A 4500 LB VEHICLE TRAVELING AT 25 MPH.

MISCELLANEOUS

- THE CONTRACTOR SHALL REMOVE, CLEAN, REPAIR AND PAINT THE ORNAMENTAL LIGHT POSTS AT EACH CORNER OF THE BRIDGE AND REINSTALL ON NEW CONCRETE RAILING POSTS AT EACH CORNER OF THE BRIDGE. THE FINAL COAT OF PAINT SHALL BE BLACK. CLEANING AND PAINTING THE LIGHT POSTS SHALL BE DONE IN ACCORDANCE WITH SECTION 513. ALL COSTS FOR REMOVING, REFURBISHING AND REINSTALLING THE LIGHT POSTS SHALL BE INCLUDED UNDER ITEM 900.620, SPECIAL PROVISION (REMOVING, REFURBISHING AND RESETTING LIGHT POST).

VOID
SEE REVISED

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	BHF 016-2(14)
FILE NAME:	s06j004gen.dgn
PROJECT LEADER:	R. WHITCOMB
DESIGNED BY:	C. CARLSON
GENERAL NOTES	
PLOT DATE:	23-MAR-2009
DRAWN BY:	C. CARLSON
CHECKED BY:	D. PETERSON
SHEET	3 OF 72