

**PREFABRICATED MULTI-MODAL BRIDGE NOTES:**

1. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 545 OF THE SPECIFICATIONS. THE BRIDGE SHALL MEET THE DIMENSIONS INDICATED IN THE PLANS AND SHALL BE PAID UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
2. ALL ELEMENTS OF THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE DESIGNED BY THE SUPPLIER, INCLUDING ALL ANCHORAGES, CONNECTIONS BETWEEN ELEMENTS, DECKING FOR THE BRIDGE, AND BEARING DEVICES. ALL ELEMENTS SHALL BE INSTALLED ACCORDING TO THE FABRICATOR'S RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT SHOP FABRICATION DRAWINGS FOR THE PREFABRICATED BRIDGE FOR APPROVAL. IN ADDITION TO FABRICATION DRAWINGS, THE FABRICATOR SHALL ALSO PROVIDE BACKUP CALCULATIONS IN ACCORDANCE WITH THESE PLANS, THE AASHTO SPECIFICATIONS REFERENCED IN GENERAL NOTE 1, AND THE VTRANS STRUCTURES DESIGN MANUAL, 2010. THE BACKUP CALCULATIONS SHALL BE SIGNED, STAMPED, AND DATED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE ENGINEERING IN THE STATE OF VERMONT. NOTE THAT THE FABRICATOR ASSUMES ALL LIABILITY FOR THE ADEQUACY AND ACCURACY OF THE PREFABRICATED BRIDGE DESIGN.
3. THE DESIGN OF THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE FOR:
  - ALL APPLICABLE DEAD LOADS (SEE SHEET 11)
  - LIVE LOAD = 85 PSF
  - SNOW LOAD, Pg = 70 PSF
  - WIND LOAD, V=90 MPH
  - ASTM A 500, GRADE B STRUCTURAL STEEL
  - DEFLECTION LIMITS = L/720 FOR PEDESTRIAN LIVE LOAD
4. SEE SHEET 11 FOR REACTIONS FROM THE ROOF ON THE PREFABRICATED MULTI-MODAL BRIDGE.
5. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE RECTANGULAR IN ELEVATION VIEW AND SHALL NOT CONTAIN RESIDUAL CAMBER IN ITS FINAL POSITION.
6. THE PREFABRICATED MULTI-MODAL BRIDGE SHALL BE COLOR GALVANIZED BLACK (COLOR CHIP NO. 27038). THE COST OF SURFACE PREPARATION AND COLOR GALVANIZING THE STEEL WILL BE PAID UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
7. HARDWARE FOR CONNECTIONS BETWEEN INDIVIDUAL TRUSS MEMBERS, BETWEEN THE TRUSS AND TIMBER CLADDING, AND BETWEEN THE TRUSS AND SUBSTRUCTURES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
8. BEARING DEVICES AND ANCHOR BOLTS SHALL BE AS DESIGNED AND DETAILED BY THE FABRICATOR, AND SHALL BE INSTALLED ACCORDING TO THE FABRICATOR'S RECOMMENDATIONS. PAYMENT FOR THE BEARING DEVICES AND ANCHOR BOLTS SHALL BE MADE UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".
9. PAYMENT FOR THE DECKING SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED UNDER ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)".

**TIMBER NOTES:**

1. NEW TIMBER SHALL BE AS FOLLOWS:
  - A. SIDING: EASTERN WHITE PINE, COMMON PREMIUM GRADE
  - B. SIDEWALK ROOF SUPPORTS (POSTS, BEAMS, AND CROSS MEMBERS), STEEL TRUSS DECKING, TRUSS SIDE NAILERS, AND TRUSS CAPS: SOUTHERN PINE NO. 2
  - C. TIMBER TRUSS DECK PLANKS: WHITE OAK, NO. 1 GRADE OR BETTER, EDGE GRAIN PLANKS
  - D. TIMBER TRUSS FLOOR BEAMS, SIDEWALK ROOF RAFTERS, TIMBER TRUSS ROOF RAFTER, AND ROOF SHEATHING: SOUTHERN PINE NO. 1

**TIMBER NOTES (CONTINUED):**

2. ALL TIMBER CONSTRUCTION SHALL COMPLY WITH SECTION 522 OF THE SPECIFICATIONS, THE 2012 NATIONAL DESIGN SPECIFICATION (NDS) AND SUPPLEMENT FOR WOOD CONSTRUCTION, AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) SPECIFICATIONS.
3. CONTRACTOR SHALL FIELD VERIFY SIZES AND DIMENSIONS OF EXISTING TIMBER COMPONENTS TO ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS.
4. EACH PIECE OF WOOD OR TIMBER SHALL BE GRADED BY A RECOGNIZED GRADING AGENCY. A CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED FOR ALL WOOD.
5. LEAD HOLES ARE TO BE FIELD DRILLED TO INSURE PROPER FIT. CONTRACTOR TO BE RESPONSIBLE FOR PROPER FIT OF CONNECTIONS.
6. ALL LAG BOLTS SHALL BE TIGHTENED SNUGLY. DO NOT EXCESSIVELY TIGHTEN TO CAUSE CRUSHING OF THE WOOD UNDER WASHER.
7. ALL NEW TIMBER BE SHALL BE UNTREATED, WITH THE EXCEPTION OF THE STEEL TRUSS DECKING, TRUSS SIDE NAILERS, AND TRUSS TOP CAPS. PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 726.01 OF THE SPECIFICATIONS, PRESERVATIVE TYPE IV.
8. ALL JOB SITE FABRICATION CUTS AND BORINGS OF TREATED TIMBER SHALL BE TREATED PER SUBSECTION 522.13 OF THE SPECIFICATIONS.
9. ALL NUTS, BOLTS, WASHERS, SPIKES, AND SCREWS FOR TIMBER CONSTRUCTION SHALL CONFORM TO ASTM A307 AND BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.
10. ALL NAILS USED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. THE USE OF ELECTRO GALVANIZED NAILS WILL NOT BE PERMITTED.
11. ALL NEW TIMBER SHALL BE PAID FOR AS FOLLOWS:
  - A. SIDING: ITEM 522.30, "NONSTRUCTURAL LUMBER, UNTREATED"
  - B. SIDEWALK ROOF SUPPORTS (POSTS, BEAMS, AND CROSS MEMBERS), TIMBER TRUSS DECK PLANKS, FLOOR BEAMS, SIDEWALK ROOF RAFTERS, TIMBER TRUSS ROOF RAFTER AND ROOF SHEATHING: ITEM 522.20, "STRUCTURAL LUMBER AND TIMBER, UNTREATED"
  - C. TRUSS SIDE NAILERS AND CAPS: ITEM 522.25, "STRUCTURAL LUMBER AND TIMBER, TREATED".
12. EXISTING CEDAR ROOF SHINGLES SHALL BE REMOVED AND REPLACED AS INDICATED IN THE PLANS. NEW SHINGLES SHALL BE RED CEDAR NO. 1 GRADE AND MATCH EXISTING CEDAR ROOF SHINGLES (LENGTH AND REVEAL) THAT ARE TO BE RETAINED. PAYMENT FOR NEW CEDAR ROOF SHINGLES SHALL BE MADE UNDER ITEM 900.670, "SPECIAL PROVISION (CEDAR SHINGLE ROOF)". PAYMENT FOR ASPHALT SATURATED FELT UNDERLAYMENT SHALL NOT BE MADE SEPARATELY BUT SHALL BE INCLUDED UNDER ITEM 900.670, "SPECIAL PROVISION (CEDAR SHINGLE ROOF)".
13. LUMBER SIZES INDICATED ARE NOMINAL, UNLESS NOTED OTHERWISE. ALL LUMBER SHALL BE DRESSED (S4S), EXCEPT AS INDICATED FULL SAWN OR ROUGH SAWN.

**UTILITY NOTES:**

1. WATER MAIN AND SERVICE LOCATIONS AND DEPTHS ARE SHOWN BASED UPON AS-BUILT INFORMATION FROM PHELPS ENGINEERING INC.
2. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE, AND DUBOIS & KING MAKES NO CLAIM TO ITS ACCURACY OR COMPLETENESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES, PRIOR TO THE START OF CONSTRUCTION.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION SHALL BE DETERMINED AND AGREED UPON BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. 2" PVC WIRED CONDUIT SHALL RUN UNDERGROUND FROM THE EXISTING UTILITY POLE AT STA. 3+85 RT, THROUGH THE ABUTMENT SLEEVE. 1" RIGID STEEL WIRED CONDUIT SHALL RUN BETWEEN EXISTING TIMBER TRUSS AND NEW STEEL TRUSS, UP TO EXISTING METER BOX ON FIRST POST IN NORTHEAST CORNER. ALL CONDUIT, WIRING, AND CONNECTIONS SHALL BE PAID FOR UNDER ITEM 678.23, "WIRED CONDUIT (2") (PVC)".

**TRAFFIC CONTROL NOTES:**

1. THE TRAFFIC CONTROL INFORMATION PROVIDED IN THESE PLANS IS INTENDED TO BE A GENERAL OUTLINE OF HOW THE WORK IS TO PROCEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, FLAGGERS, AND OTHER TRAFFIC CONTROL DEVICES. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
2. REFER TO MUTCD TYPICAL APPLICATIONS TA-1, TA-3, TA-6, AND TA-10 FOR TYPICAL APPLICATIONS OF MAINTAINING TRAFFIC THROUGH THE WORK AREA.
3. THE CONTRACTOR SHALL NOTIFY THE TOWN IN WRITING PRIOR TO IMPLEMENTATION OF ANY TRAFFIC CONTROL.
4. BRIDGE STREET (T.H. NO. 1) WILL BE ALLOWED TO BE CLOSED TO TRAFFIC, IN THE IMMEDIATE VICINITY OF THE BRIDGE, FOR A PORTION OF THE PROJECT DURATION. DURING NON-CLOSURE PERIODS, IT IS EXPECTED FOR TRAFFIC TO BE MAINTAINED THROUGH THE SITE. ACCESS SHALL BE MAINTAINED TO ALL DRIVES (COMMERCIAL AND RESIDENTIAL) DURING CLOSURE AND NON-CLOSURE PERIODS. THE CONTRACTOR SHALL WORK WITH THE TOWN OF WAITSFIELD TO DEVELOP A PLAN TO MAINTAIN TRAFFIC DURING CONSTRUCTION AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL. IT IS ANTICIPATED FOR TRAFFIC CONTROL TO CONSIST OF TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS ALONG VT ROUTE 100, DETOUR SIGNING ALONG AN ACCEPTABLE DETOUR ROUTE (IF APPLICABLE), AND CONSTRUCTION AND SIDE ROAD CONSTRUCTION SIGNING. THE CONTRACTOR SHALL COORDINATE WITH VTRANS MAINTENANCE DISTRICT 6 REGARDING PLACEMENT OF PORTABLE CHANGEABLE MESSAGE SIGNS AND SIGNING WITHIN THE VT ROUTE 100 RIGHT-OF-WAY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR PLACEMENT OF TRAFFIC CONTROL ALONG VT ROUTE 100. PAYMENT FOR PREPARING THE PLAN, AND IMPLEMENTATION AND MAINTENANCE OF THE TRAFFIC CONTROL MEASURES DETAILED IN THE PLAN SHALL BE MADE UNDER ITEM 641.10, "TRAFFIC CONTROL". PAYMENT FOR PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE MADE SEPARATELY UNDER ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN". THE TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE APPLICABLE VTRANS E AND T SERIES STANDARD DRAWINGS AND THE 2009 EDITION OF THE MUTCD.
5. THE INSTALLATION AND MAINTENANCE OF ALL SIGNS, BARRICADES, CONES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PAID FOR UNDER ITEM 641.10, "TRAFFIC CONTROL". FLAGGERS REQUIRED FOR TRAFFIC CONTROL SHALL BE PAID FOR UNDER ITEM 630.15, "FLAGGERS".
6. EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SIGNING SHALL BE COVERED OR REMOVED AND RESET. COST CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".



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PROFESSIONAL SEAL

**FINAL PLANS**

DATE	BY	REVISION

TOWN OF  
WAITSFIELD  
9 BRIDGE STREET  
WAITSFIELD, VT

VILLAGE COVERED  
BRIDGE REHAB. &  
BRIDGE STREET  
STORMWATER  
IMPROVEMENTS

SHEET TITLE

**PROJECT NOTES**

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DSK PROJECT #
EPD	620922
PROJ. ENG.	DSK ARCHIVE #
RHB	620922

SHEET NUMBER

**5**

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