

**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 UNLESS NOTED OTHERWISE THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES; DATED 2002, AND THE AASHTO GUIDE SPECIFICATIONS FOR HORIZONTALLY CURVED STEEL GIRDER HIGHWAY BRIDGES; DATED 2003.
2. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES CELCIUS, UNLESS NOTED OTHERWISE.
3. DESIGN IS FOR MS-22.5 LIVE LOADING.
4. EXISTING SIGNS NOT REUSED SHALL REMAIN THE PROPERTY OF THE STATE OF VERMONT. THESE SIGNS SHALL BE STOCKPILED ON THE PROJECT AND THEN LOADED ON A TRUCK SUPPLIED BY THE DISTRICT. CONTACT THE DISTRICT 4 DTA, TAMMY ELLIS AT 295-8888 TO ARRANGE REMOVAL FROM THE PROJECT. PAYMENT WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 675.50 "REMOVING SIGNS".
5. CAUTION LIGHTS AT STATIONS 9+987 RT AND 10+366 LT ALONG WITH ATTACHED SIGNS SHALL BE REMOVED BY VTRANS OPERATIONS PERSONNEL. THE CONTRACTOR SHALL CONTACT RUSSELL VELANDER AT 828-3535 TO ARRANGE REMOVAL.
6. A PORTION OF THE EXISTING SUBSTRUCTURE AT ABUTMENT NO. 2 SHALL BE REMOVED AS INDICATED ON SHEET 24 UNDER ITEM 529.15 "REMOVAL OF STRUCTURE". THE REMAINING SUBSTRUCTURES AND SUPERSTRUCTURE SHALL BE REMOVED AFTER THE NEW BRIDGE IS COMPLETE UNDER ITEM 529.15 "REMOVAL OF STRUCTURE". THE PIER AND ABUTMENTS SHALL BE REMOVED DOWN TO THE ELEVATIONS SHOWN ON THE CHANNEL CROSS SECTIONS.
7. THE MAILBOXES AT STATION 10+317 RT AND 20+059 LT SHALL BE MOVED TO A LOCATION DETERMINED BY THE OWNER AND THE RESIDENT ENGINEER. PAYMENT SHALL BE UNDER ITEM 617.10, "RELOCATE MAILBOX, SINGLE SUPPORT."

**EARTHWORK AND RELATED ITEMS**

8. PERMANENT SHEET PILING SHALL BE INSTALLED 1.2 METERS OUTSIDE THE PERIMETER OF THE MSE WALL EXCEPT WHERE IT CONFLICTS WITH THE EXISTING ABUTMENTS. THE SHEET PILING SHALL EXTEND 0.5 METERS ABOVE THE BOTTOM OF WALL ELEVATIONS INDICATED ON THE MSE WALL ELEVATION SHEETS. THE SHEETS SHALL BE DRIVEN TO BEDROCK, BUT SHALL NOT EXCEED 6.10 METERS IN LENGTH. THE SHEET PILING SHALL HAVE A MINIMUM SECTION MODULUS OF 1620 cm<sup>3</sup>/M.
9. THE TOP ELEVATION OF THE PERMANENT STEEL SHEET PILING MAY BE RAISED TO FACILITATE THE EXCAVATION FOR THE MSE WALL. THE TOP OF THE SHEETS SHALL BE .5 METERS MINIMUM BELOW FINAL GRADE.
10. EXCAVATION FOR PLACEMENT OF STONE FILL, TYPE IV SHALL BE PAID FOR UNDER ITEM 203.27 "UNCLASSIFIED CHANNEL EXCAVATION". EXCAVATION FOR PLACEMENT OF STONE FILL, TYPE II SHALL BE PAID FOR UNDER ITEM 203.15 "COMMON EXCAVATION."
11. EXISTING PAVEMENT SHALL BE SCARIFIED IN LOCATIONS UNDER THE PROPOSED EMBANKMENT WHERE IT WOULD NOT OTHERWISE BE REMOVED UNDER THE ITEM 203.15 "COMMON EXCAVATION". SCARIFYING SHALL BE PAID FOR UNDER THE ITEM 900.675, "SPECIAL PROVISION (SCARIFYING PAVEMENT)". ANY PAVEMENT REMAINING OUTSIDE THE PROPOSED EMBANKMENT SHALL BE REMOVED UNDER THE ITEM 203.15 "COMMON EXCAVATION".

**STRUCTURAL STEEL**

12. UNLESS OTHERWISE NOTED, ALL NEW STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270M/M 270 GRADE 345W AND SHALL BE PAID FOR UNDER ITEM 506.56, "STRUCTURAL STEEL, CURVED PLATE GIRDER".
13. UNLESS OTHERWISE NOTED, STRUCTURAL STEEL MEMBERS DESIGNATED "CVN" IN THE PLANS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01.
14. BOLTS USED IN FIELD CONNECTIONS SHALL BE M22 X 2.5 AND MEET THE REQUIREMENTS OF SUBSECTION 714.05. HOLE DIAMETERS SHALL BE 24 MM. ANY CONNECTIONS NOT DESIGNATED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
15. AFTER SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF THE GIRDERS SHALL BE TAKEN AS DIRECTED BY THE RESIDENT ENGINEER FOR USE IN DETERMINING FINISHED GRADES.
16. FLEMING BRACKETS OR SIMILAR FALSEWORK SHALL BE SPACED AS REQUIRED BY DESIGN, BUT SHALL BE LIMITED TO A MAXIMUM SPACING OF 1200 mm. THE DESIGN OF FALSEWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

17. ANY BOLT HOLES IN THE WEBS OF FASCIA GIRDERS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19 OF THE STANDARD SPECIFICATIONS.
18. ENDS OF GIRDERS ARE TO BE VERTICAL IN THEIR FINAL POSITION.
19. THE EXPANSION END OF THE GIRDERS SHALL BE GIVEN A SHOP APPLIED PAINT SYSTEM FOR A DISTANCE EQUAL TO THE DEPTH OF THE GIRDER PER SPECIFICATION 513. THE CROSSFRAMES IN THIS AREA SHALL ALSO BE PAINTED. THE PAINT SHALL BE BROWN, FEDERAL STANDARD 595, COLOR CHIP #20059 IN ACCORDANCE WITH SUBSECTION 708.03. AFTER INSTALLATION THE PAINTED AREAS SHALL BE GREASED.

**CONCRETE**

20. SUBSTRUCTURE CONCRETE AND APPROACH SLABS SHALL BE IN ACCORDANCE WITH ITEM 501.34, "CONCRETE, HIGH PERFORMANCE CLASS B". DECK AND CURB CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 900.608, "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, CLASS A LOW CEMENT). "
21. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. ALL OTHER AREAS OF BRIDGE SEATS SHALL BE SLOPED 2.0 PERCENT TOWARD MIDSPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE GIVEN A MAGNESIUM FLOAT FINISH.
22. CONCRETE PORTIONS OF ABUTMENTS AND WINGWALLS ABOVE ADJACENT BRIDGE SEAT ELEVATIONS SHALL NOT BE PLACED UNTIL FINISH GRADES HAVE BEEN DETERMINED BY THE RESIDENT ENGINEER.
23. IN ACCORDANCE WITH SUBSECTION 506.23(A) OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL TAKE MEASURES NECESSARY TO PROTECT THE MSE WALLS AND ABUTMENTS FROM STAINING DUE TO OXIDE FORMATION ON THE STRUCTURAL STEEL PRIOR TO PLACEMENT OF THE DECK. THESE MEASURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 506.56, "STRUCTURAL STEEL, CURVED PLATE GIRDER". ANY SUCH STAINING THAT OCCURS PRIOR TO DECK PLACEMENT SHALL BE REMOVED AT NO ADDITIONAL COST TO THE STATE.
24. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 mm X 25 mm.
25. WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES. WATER REPELLENT FOR THE MSE WALL PANELS MAY BE APPLIED ON SITE PRIOR TO ASSEMBLY.
26. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
27. ALL SUPERSTRUCTURE REINFORCING STEEL SHALL BE EPOXY COATED AND PAID FOR UNDER ITEM 507.17, "EPOXY COATED REINFORCING STEEL". CUTTING AND REPAIRING DAMAGED AREAS OF COATED REINFORCING STEEL SHALL BE PERFORMED IN ACCORDANCE WITH SUBSECTION 507.04 OF THE STANDARD SPECIFICATIONS.
28. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:

SPACING: +/- 25 mm  
CLEARANCE: +/- 6 mm

**INFILTRATION BASIN NOTES**

29. EXCAVATION FOR THE PLUNGE POOL AND INFILTRATION BASIN SHALL BE INCLUDED UNDER ITEM 203.15 "COMMON EXCAVATION."
30. THE BASIN SHALL NOT BE USED AS A SEDIMENT BASIN PRIOR TO THE ESTABLISHMENT OF VEGETATION AS DETERMINED BY THE RESIDENT ENGINEER.

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SQUAD LEADER: C. P. WILLIAMS	DRAWN BY: H. I. SALLS
GENERAL NOTES	CHECKED BY: R. S. YOUNG
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