

STRUCTURAL STEEL

- 36. THE DIMENSIONS OF EXISTING MATERIALS GIVEN IN THE PLANS HAVE BEEN ASSUMED. THE ACTUAL DIMENSIONS OF EXISTING MATERIALS MAY DIFFER FROM THOSE GIVEN IN THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS.
- 37. THE TRUSS MAY BE SHORED AND REHABILITATED IN PLACE AND PAID FOR UNDER ITEM 502.10 SHORING SUPERSTRUCTURE AND ITEM 900.645 SPECIAL PROVISION (REHABILITATING TRUSS BRIDGE SUPERSTRUCTURE) OR THE TRUSS MAY BE MOVED AND REHABILITATED IN A DIFFERENT LOCATION AND REINSTALLED IN ITS FINAL LOCATION AND PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (HANDLING, TRANSPORT AND RE-ERECTION OF TRUSS BRIDGE SUPERSTRUCTURE) AND ITEM 900.645 SPECIAL PROVISION (REHABILITATING TRUSS BRIDGE SUPERSTRUCTURE).
- 38. BEFORE THE TRUSS IS SHORED OR REMOVED, THE OVERALL DIMENSIONS OF THE TRUSS ELEMENTS AND CORRESPONDING TEMPERATURE READINGS SHALL BE RECORDED AND GIVEN TO THE STRUCTURES ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 506.60 STRUCTURAL STEEL.
- 39. UNLESS OTHERWISE NOTED, ALL NEW STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270M/M270 GRADE 50 AND SHALL BE GALVANIZED PER SUBSECTION 506.15.
- 40. THE BOTTOM CHORD IS DETAILED AS A SINGLE CONTINUOUS CAMBERED MEMBER. SPLICES TO FACILITATE FABRICATION AND ERECTION WILL BE CONSIDERED, BUT MUST BE DESIGNED AND DETAILED BY THE CONTRACTOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR ACCEPTANCE.
- 41. STRUCTURAL STEEL MEMBERS DESIGNATED AS "FCM" (FRACTURE CRITICAL MEMBERS) IN THE PLANS SHALL MEET THE FOLLOWING CONSTRUCTION AND TESTING REQUIREMENTS LISTED BELOW.
  - A. ALL FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED ACCORDING TO SECTION 12 OF THE AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE.
  - B. ALL FRACTURE CRITICAL MEMBERS SHALL FABRICATED IN A PLANT HAVING AN AISC FRACTURE CRITICAL ENDORSEMENT OR THE FABRICATOR SHALL PROVIDE TO THE STRUCTURES ENGINEER AN ACCEPTABLE FRACTURE CONTROL PLAN MEETING THE REQUIREMENTS OF AASHTO/AWS D1.5, PRIOR TO FABRICATION.
  - C. ALL FRACTURE CRITICAL MEMBERS SHALL BE IMPACT TESTED TO THE FRACTURE CRITICAL REQUIREMENTS AS SPECIFIED IN AASHTO M 270M/M 270.
- 42. STRUCTURAL STEEL MEMBERS DESIGNATED AS "CVN" IN THE PLANS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01 OF THE STANDARD SPECIFICATIONS.
- 43. ALL BOLT OR RIVET HOLES IN THE STRUCTURAL STEEL THAT ARE NOT OTHERWISE FILLED, SHALL BE FILLED WITH BUTTON HEAD BOLTS. THESE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19.
- 44. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH TYPE 1 GALVANIZED BOLTS PER SECTION 506. UNLESS OTHERWISE NOTED, THE BOLTS SHALL BE 7/8" DIAMETER PLACED IN 15/16" DIAMETER HOLES.

- 45. WHEN CONNECTIONS ARE TO BE MADE WITH EXISTING MATERIAL, THE DIMENSION AND SPACING OF HOLES SHOULD BE VERIFIED BEFORE FABRICATING AND CONNECTING NEW MEMBERS, ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE PLANS SHOULD BE BROUGHT TO THE STRUCTURES ENGINEER FOR CONCURRENCE BEFORE MATERIAL IS FABRICATED AND CONNECTIONS ARE MADE.
- 46. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
- 47. ALL STRUCTURAL CONNECTIONS INCORPORATING THE BEVELED SIDE OF A STANDARD BEAM, CHANNEL OR ANGLE SHALL USE THE CORRESPONDING GALVANIZED ASTM F436 BEVELED WASHERS.
- 48. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
- 49. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT, ALL FAYING SURFACES SHALL EITHER BE GALVANIZED TO MEET THE CLASS C SLIP COEFFICIENT VALUE OF NOT LESS THAN 0.33 AS SPECIFIED BY AASHTO OR COATED WITH AN INORGANIC ZINC RICH PRIMER TO MEET THE CLASS B SLIP COEFFICIENT VALUE OF NOT LESS THAN 0.50 AS SPECIFIED BY AASHTO.

PROTECTIVE COATINGS

- 50. THE EXISTING STRUCTURAL STEEL MAY BE PAINTED WITH A LEAD-BASED PAINT. THE COSTS ASSOCIATED WITH SAFELY REMOVING THIS PAINT ARE INCLUDED THE BID PRICE FOR ITEM 900.645 SPECIAL PROVISION (CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES).
- 51. ALL OF THE EXISTING STEEL TO REMAIN IN THE FINAL STRUCTURE SHALL BE PREPARED TO A "100% BARE EXISTING" CONDITION PER ITEM 900.645 SPECIAL PROVISION (QC/QA CLEANING AND PAINTING STRUCTURAL COMPONENTS).
- 52. THE FINAL COLOR OF ALL STRUCTURAL STEEL INCLUDING THE CONNECTION PLATES AND ANGLES SHALL BE GREEN COLOR CHIP 14062 PER SUBSECTION 708.03 OF THE STANDARD SPECIFICATIONS. THE FLOOR SYSTEM, INCLUDING THE FLOORBEAMS, STRINGERS AND DIAGONALS NEED NOT BE PAINTED.
- 53. THE AREA OF CONTACT BETWEEN ALL EXISTING CONNECTIONS, EXCEPT CONNECTIONS WHICH ARE NOT DISASSEMBLED, SHALL BE FREE OF EXISTING PAINT, CLEANED AND PRIMED TO MEET THE CONDITIONS OF A CLASS B SLIP COEFFICIENT PER THE "TESTING METHOD TO DETERMINE THE SLIP COEFFICIENT FOR COATINGS USED IN BOLTED JOINTS" AS ADOPTED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
- 54. WHEN A CONNECTION IS FIELD DRILLED, THE CONTRACTOR SHALL CLEAN ALL SURFACES PRIOR TO BOLTING THE CONNECTION. ALL MEMBERS AND CONNECTION PLATES MUST BE INDIVIDUALLY CLEANED PRIOR TO BOLTING. THIS MAY REQUIRE THE REMOVAL OF CLAMPS OR OTHER DEVICES THAT ARE HOLDING MEMBERS IN PLACE. THE CLEANING SHALL INCLUDE THE REMOVAL OF ALL OIL AND OTHER RESIDUE RESULTING FROM FIELD DRILLING.
- 55. THE TOP COAT OF THE PAINT SYSTEM SHALL BE APPLIED AFTER ALL OF THE STRUCTURAL STEEL HAS BEEN ASSEMBLED. THE CONCRETE DECK NEED NOT BE PLACED PRIOR TO THE APPLICATION OF THE TOP COAT.
- 56. ANY DAMAGE CAUSED TO THE PAINT SYSTEM, INCLUDING THAT CAUSED BY THE CONCRETE OPERATIONS, SHALL BE REPAIRED PER, AND INCLUDED IN THE BID PRICE FOR, ITEM 900.645 SPECIAL PROVISION (QC/QA CLEANING AND PAINTING STRUCTURAL COMPONENTS).
- 57. ALL CONTRACTORS PERFORMING CONTAINMENT, CLEANING AND PAINTING FOR THE PROJECT SHALL POSSESS AND MAINTAIN THE APPROPRIATE SOCIETY FOR PROTECTIVE COATINGS (SSPC) CERTIFICATIONS.
- 58. ALL MATERIAL TO BE GALVANIZED SHALL BE CLEANED AND PICKLED PER THE SSPC-SP8, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

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GENERAL NOTES:	*2
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