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PROJECT NOTES

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2010, AND ITS LATEST REVISIONS.
2. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS.
3. ALL COSTS ASSOCIATED WITH PROTECTION OF TRAFFIC DURING REMOVAL OF THE BRIDGE PAVEMENT WILL BE INCIDENTAL TO ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT".
4. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE PIERS, UNDERSIDE OF THE DECK, AND UNDERNEATH THE BARRIER CURB FASCIA. THIS WORK WILL BE PAID FOR UNDER ITEM 514.10, "WATER REPELLENT, SILANE".
5. FOLLOWING THE COMPLETION OF ALL OTHER CONSTRUCTION ACTIVITIES, ALL FABRIC DRAIN TROUGHS, DOWNSPOUTS AND SCUPPERS WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE BITUMINOUS CONCRETE REMOVAL PLAN, SHALL BE THOROUGHLY FLUSHED BY THE CONTRACTOR. COST FOR FLUSHING THE FABRIC DRAIN TROUGHS, DOWNSPOUTS AND SCUPPERS WILL BE INCIDENTAL TO ALL OTHER ITEMS IN THE CONTRACT.
6. WIRE WITHIN THE CONDUIT FOR NAVIGATIONAL LIGHTS INSIDE CONCRETE BARRIER CURB FROM CAST IRON BOX AT STATION 37+25 RT TO CAST IRON BOX AT STATION 49+65 RT SHALL BE REMOVED AND REPLACED. THIS WORK WILL BE PAID FOR UNDER ITEM 678.24, "ELECTRICAL WIRING". TEMPORARY POWER SHALL BE REQUIRED FOR THE NAVIGATIONAL LIGHTS TO REMAIN ACTIVE AT ALL TIMES ALONG WITH A LIGHT SENSOR TO TURN THE LIGHTS ON AND OFF. THE TEMPORARY POWER AND LIGHT SENSOR WILL BE PAID FOR UNDER ITEM 900.645, "SPECIAL PROVISION (TEMPORARY POWER FOR NAVIGATIONAL LIGHTS)".
7. AS MOST OF THE WORK WILL BE PERFORMED ON THE BRIDGE AND OVER THE LAKE SURFACE, ALL PRECAUTIONS SHALL BE TAKEN TO PREVENT ANY MATERIAL BEING REMOVED OR INSTALLED AND DEBRIS PROTECTION SHALL BE IN-PLACE FOR THE LENGTH OF CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SUBSECTION 105.24 AND AS DIRECTED BY THE RESIDENT ENGINEER.
8. SEE THE CONTRACT DOCUMENTS FOR US COAST GUARD "GENERAL CONSTRUCTION REQUIREMENTS."

TRAFFIC CONTROL

9. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS DEPICTING EACH PHASE OF THE PLANNED WORK. PLANS SHALL BE SUBMITTED IN ACCORDANCE WITH SUBSECTION 105.03 AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN AN APPROPRIATE DISCIPLINE IN THE STATE OF VERMONT.
10. UNLESS COVERED UNDER INDIVIDUAL PAY ITEMS OR NOTED OTHERWISE, ALL COSTS FOR WORK SHOWN ON TRAFFIC CONTROL SHEETS AND FOR TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC BARRIERS, RETROREFLECTIVE DRUMS, SIGNS, AND SIGN POSTS WILL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR ITEM 641.10, "TRAFFIC CONTROL". THIS IS A LUMP SUM ITEM AND INCLUDES ALL TRAFFIC CONTROL SETUPS, INCLUDING THOSE FOR THE 5 PIER EXPANSION JOINT LOCATIONS.
11. PIER EXPANSION JOINTS SHALL BE REPLACED PRIOR TO PERFORMING PAVING OPERATIONS. JOINTS SHALL BE REMOVED AND REPLACED PER THE JOINT REMOVAL AND REPLACEMENT NOTES THIS SHEET. THE DETAIL ENTITLED "2-PHASE TRAFFIC CONTROL FOR US ROUTE 2 WITH TEMPORARY PORTABLE TRAFFIC CONTROL SIGNALS AND TEMPORARY CONCRETE TRAFFIC BARRIER" SHALL BE USED FOR THIS WORK PER TRAFFIC CONTROL SHEET 1.
12. ABUTMENT JOINT SEALS SHALL BE REMOVED AND REPLACED PER THE JOINT REMOVAL AND REPLACEMENT NOTES THIS SHEET. THIS WORK MAY BE DONE SIMULTANEOUSLY WITH ALL PAVEMENT AND MEMBRANE REMOVAL AND REPLACEMENT AND DECK REPAIRS. ALL TRAFFIC CONTROL SETUPS MAY BE UTILIZED FOR THIS WORK PROVIDED ALL REQUIREMENTS STATED IN TRAFFIC CONTROL NOTES AND PLANS ON TRAFFIC CONTROL SHEETS 1, 2, AND 3 AND ON TRAFFIC CONTROL SEQUENCE SHEETS 1 AND 2 ARE MET.

TRAFFIC CONTROL (CONT.)

13. REPAIRS TO THE CONCRETE BRIDGE DECK SHALL BE PERFORMED AS DAMAGED SECTIONS ARE EXPOSED DURING PAVEMENT AND MEMBRANE REMOVAL OPERATIONS. TRAFFIC WILL BE ALLOWED TO DRIVE ON THE BARE CONCRETE BRIDGE DECK ONCE THE BARRIER MEMBRANE IS REMOVED, ALL WORK NECESSARY TO REPAIR THE CONCRETE DECK IS COMPLETED, THE CONCRETE REPAIR MATERIAL HAS CURED FOR A LENGTH OF TIME NO LESS THAN THE MANUFACTURER'S RECOMMENDED CURE TIME, AND TEMPORARY PAVEMENT WEDGES HAVE BEEN INSTALLED ADJACENT TO PIER EXPANSION JOINTS. ALL TRAFFIC CONTROL SETUPS MAY BE UTILIZED FOR THIS WORK PROVIDED ALL REQUIREMENTS STATED IN TRAFFIC CONTROL NOTES AND PLANS ON TRAFFIC CONTROL SHEETS 1, 2, AND 3 AND ON TRAFFIC CONTROL SEQUENCE SHEETS 1 AND 2 ARE MET.
 14. TRAFFIC SHALL BE ALLOWED TO DRIVE ON THE BARE CONCRETE BRIDGE DECK AFTER THE REMOVAL OF THE BARRIER MEMBRANE, BUT PRIOR TO THE DECK BEING CLEANED AND PREPARED FOR THE NEW SHEET MEMBRANE. ONCE THE CONCRETE BRIDGE DECK IS PREPARED FOR THE NEW SHEET MEMBRANE, NO TRAFFIC WILL BE ALLOWED ON THE NEW MEMBRANE UNTIL THE SECOND LIFT OF BITUMINOUS CONCRETE PAVEMENT IS IN PLACE. ALL TRAFFIC CONTROL SETUPS MAY BE UTILIZED FOR THIS WORK PROVIDED ALL REQUIREMENTS STATED IN TRAFFIC CONTROL NOTES AND PLANS ON TRAFFIC CONTROL SHEETS 1, 2, AND 3 AND ON TRAFFIC CONTROL SEQUENCE SHEETS 1 AND 2 ARE MET.
 15. REPAIR OF DAMAGED CONCRETE BARRIER CURB JOINTS PER THE JOINT REMOVAL AND REPLACEMENT NOTES THIS SHEET, AND THE PLACEMENT OF WATER REPELLENT, SILANE PER THE GENERAL NOTES THIS SHEET, MAY OCCUR IN CONJUNCTION WITH OR FOLLOWING THE COMPLETION OF PAVEMENT AND MEMBRANE WORK. ALL TRAFFIC CONTROL SETUPS MAY BE UTILIZED FOR THIS WORK PROVIDED ALL REQUIREMENTS STATED IN TRAFFIC CONTROL NOTES AND PLANS ON TRAFFIC CONTROL SHEETS 1, 2, AND 3 AND ON TRAFFIC CONTROL SEQUENCE SHEETS 1 AND 2 ARE MET.
 16. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM THE PROJECT ENGINEER PRIOR TO ALTERING THE TRAFFIC CONTROL PLAN.
- ### JOINT REMOVAL AND REPLACEMENT NOTES
17. EXISTING EXPANSION JOINTS AT PIERS 8W, 2W, 2E, 9E, AND 15E SHALL BE REMOVED AND REPLACED PRIOR TO PLACEMENT OF PAVEMENT. ALL COSTS FOR REMOVAL OF EXISTING PIER EXPANSION JOINTS 8W, 2W, AND 15E SHALL PAID FOR UNDER ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE (EXPANSION JOINT, 3 SEALS)". ALL COSTS FOR REMOVAL OF EXISTING PIER EXPANSION JOINTS 2E AND 9E SHALL BE PAID FOR UNDER ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE (EXPANSION JOINT, 4 SEALS)". PAYMENT FOR REMOVAL OF ADDITIONAL CONCRETE DECK AND BARRIER CURB REQUIRED TO FIT NEW EXPANSION JOINTS SHALL BE INCIDENTAL TO THESE ITEMS.
 18. THE EXISTING DECK WAS CONSTRUCTED USING STAY-IN-PLACE FORMS. ALL WORK AROUND EXISTING STAY-IN-PLACE FORMS DURING JOINT REMOVAL AND REPLACEMENT SHALL BE INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE (EXPANSION JOINT, 3 SEALS)" AND ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE (EXPANSION JOINT, 4 SEALS)". ANY DAMAGE TO STAY-IN-PLACE FORMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 19. THE NEW BRIDGE EXPANSION JOINTS AT PIERS 8W, 2W, AND 15E SHALL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (BRIDGE EXPANSION JOINT, MODULAR) (3 SEALS)" AND THE NEW BRIDGE EXPANSION JOINTS AT PIERS 2E AND 9E SHALL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (BRIDGE EXPANSION JOINT, MODULAR) (4 SEALS)". THESE ITEMS SHALL INCLUDE THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLIES.
 20. ARMORED JOINTS AT ABUTMENTS SHALL REMAIN IN-PLACE. THE NEOPRENE COMPRESSION SEAL WITHIN THE JOINT SHALL BE REMOVED AND REPLACED. ALL COSTS FOR REMOVAL OF EXISTING SEAL AND THE FABRICATION AND INSTALLATION OF THE REPLACEMENT SEAL SHALL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (REMOVE AND REPLACE COMPRESSION JOINT SEAL)".
 21. THE 5 PIER EXPANSION JOINTS (8W, 2W, 2E, 9E, 15E - SEE EXISTING BRIDGE PLAN ON SHEET 10) SHALL BE REMOVED AND REPLACED IN TWO PHASES WITH A FIELD SPLICE EXCEPT AS STATED IN NOTE 6 ON MODULAR JOINT DETAILS SHEET 1.
 22. JOINT REMOVAL AND REPLACEMENT OPERATIONS MAY OCCUR SIMULTANEOUSLY WITH PAVEMENT OR MEMBRANE REMOVAL PROVIDED ALL REQUIREMENTS STATED IN THE TRAFFIC CONTROL NOTES AND PLANS ON TRAFFIC CONTROL SHEETS 1, 2, AND 3 AND ON TRAFFIC CONTROL SEQUENCE SHEETS 1 AND 2 ARE MET.
 23. THE ABUTMENT NEOPRENE COMPRESSION SEALS SHALL BE REMOVED AND REPLACED IN TWO PHASES.
 24. ALL CONCRETE BRIDGE BARRIER CURB DAMAGED JOINTS SHALL BE REPAIRED. DAMAGED POLYURETHANE JOINT SEALER SHALL BE REMOVED, THE CONCRETE SURFACE SHALL BE CLEANED, AND NEW POLYURETHANE JOINT SEALER SHALL BE PLACED. COSTS FOR REPAIRING BARRIER CURB JOINTS, INCLUDING REMOVAL OF SEALER AND CLEANING OF CONCRETE SURFACE, WILL BE CONSIDERED INCIDENTAL TO ITEM 524.21, "JOINT SEALER, POLYURETHANE".
 25. A SECTION OF THE TS 4x3x0.250 BRIDGE RAIL SHALL BE REMOVED AND RESET AT EACH PIER EXPANSION JOINT. THE REMOVAL OF THE RAIL SHALL BE PAID FOR UNDER ITEM 525.10, "REMOVAL OF EXISTING RAILING". RESETTING THE RAILING SHALL BE PAID FOR UNDER ITEM 525.11, "RESETTING RAILING". IF THE INSTALLATION OF A 4-SEAL EXPANSION JOINT REQUIRES THE RELOCATION OF A BRIDGE RAIL POST, THE POST ANCHOR BOLTS SHALL BE REPLACED IN-KIND. PAYMENT SHALL BE INCIDENTAL TO ITEM 525.11, "RESETTING RAILING".
 26. THE CONDUIT FOR NAVIGATIONAL LIGHTS WITHIN AREAS OF CONCRETE BARRIER CURB REMOVAL FOR MODULAR JOINT REPAIRS AT PIERS 8W AND 2W SHALL BE REMOVED AND REPLACED. PAYMENT SHALL BE INCIDENTAL TO ITEM 678.24, "ELECTRICAL WIRING".
 27. SEE SHEET 10 FOR A SUMMARY OF THE SCOPE OF WORK.

PAVEMENT REMOVAL NOTES

28. THE FINAL ONE HALF INCH OF PAVEMENT ON THE CONCRETE BRIDGE DECK AND EAST APPROACH SLAB SHALL BE REMOVED BY LOADER, GRADER OR EQUIPMENT APPROVED BY THE ENGINEER. COLD PLANING TO REMOVE BRIDGE PAVEMENT WILL BE INCIDENTAL TO ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT".
 29. DURING BRIDGE AND APPROACH SLAB PAVEMENT REMOVAL, THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT NO DAMAGE OCCURS TO THE EXISTING CONCRETE BRIDGE DECK AND THE EXISTING EAST APPROACH SLAB. ANY DAMAGE TO THE CONCRETE BRIDGE DECK OR EAST APPROACH SLAB SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE MADE IN ACCORDANCE WITH SECTION 580.
 30. CARE SHALL BE TAKEN TO PROTECT ANY SCUPPERS OR DROP INLETS AT ALL STAGES OF CONSTRUCTION. ANY DAMAGE TO THESE STRUCTURES SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
 31. AFTER THE REMOVAL OF THE BRIDGE PAVEMENT, THE BARRIER MEMBRANE SHALL BE REMOVED AND THE CONCRETE BRIDGE DECK AND EAST APPROACH SLAB SHALL BE CLEANED IN ACCORDANCE WITH SUBSECTION 580.04 AND TO THE SATISFACTION OF THE ENGINEER. REMOVAL OF THE BARRIER MEMBRANE AND THE CLEANING OF THE CONCRETE BRIDGE DECK WILL BE PAID FOR UNDER ITEM 580.16, "SURFACE PREPARATION FOR MEMBRANE".
 32. ONCE THE BARRIER MEMBRANE IS REMOVED, ANY AREAS ON THE CONCRETE BRIDGE DECK AND EAST APPROACH SLAB THAT ARE FOUND TO BE UNSOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE METHOD FOR DETERMINING AREAS OF UNSOUND CONCRETE SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DETERIORATED PORTION OF THE CONCRETE BRIDGE DECK AND EAST APPROACH SLAB AND THE LIMITS OF THE REPAIR. THE REPAIRS SHALL BE PAID FOR UNDER ITEM 580.10, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I", ITEM 580.11, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS II", OR ITEM 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS III". QUANTITIES FOR ITEMS 580.10, 580.11, AND 580.12 AS SHOWN ON THE QUANTITY SHEET ARE ESTIMATED.
 33. ANY REPAIR WORK REQUIRING THE USE OF ITEM 580.20, "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE" SHALL BE APPROVED BY THE ENGINEER.
 34. UPON THE ENGINEER'S APPROVAL OF THE CONCRETE BRIDGE DECK'S CONDITION, ITEM 519.20, "SHEET MEMBRANE WATERPROOFING, TORCH APPLIED" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 519. THE CONTRACTOR SHALL NOT INSTALL ITEM 519.20, "SHEET MEMBRANE WATERPROOFING, TORCH APPLIED" WHEN THE DECK CONCRETE AND/OR DECK PATCH AREAS' MOISTURE CONTENT IS ABOVE SECTION 519 SPECIFICATIONS OR MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS LESS.
- ### PAVEMENT NOTES
35. FOLLOWING THE INSTALLATION OF THE SHEET MEMBRANE WATERPROOFING ON THE CONCRETE BRIDGE DECK, THE CONCRETE BRIDGE DECK AND THE AT-GRADE APPROACH SLABS SHALL BE PAVED CURB TO CURB WITH ITEM 406.27, "MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT" IN TWO 1/4" LIFTS. THE PAVEMENT SHALL BE TYPE IV FOR BOTH LIFTS, NO EXCEPTIONS.
 36. CARE SHALL BE EXERCISED TO SMOOTHLY TRANSITION THE NEW BRIDGE PAVEMENT INTO THE EXISTING PAVEMENT. ANY COLD PLANING NECESSARY FOR SHAPING BRIDGE APPROACHES SHALL BE PAID FOR UNDER ITEM 210.10, "COLD PLANING, BITUMINOUS PAVEMENT".
 37. TESTING FOR PAVEMENT DENSITY WILL REQUIRE CORES OF THE PAVEMENT ON THE BRIDGE. THE COST FOR THIS WORK WILL BE INCIDENTAL TO ITEM 406.27, "MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT". ANY DAMAGE TO THE NEW SHEET MEMBRANE CAUSED BY CORING THE PAVEMENT SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
 38. FOR PG BINDER GRADE SEE SECTION 406 OF THE GENERAL SPECIAL PROVISIONS AND SPECIAL PROVISIONS.
 39. EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF .08 GAL/SY TO ALL COLD PLANED SURFACES AND AT A RATE OF 0.03 TO 0.04 GAL/SY BETWEEN PAVEMENT LIFTS. PAYMENT SHALL BE UNDER ITEM 404.65, "EMULSIFIED ASPHALT".
 40. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT MARKINGS ON ALL PAVED SURFACES THAT WILL NOT HAVE THE PERMANENT MARKINGS APPLIED WITHIN 14 CALENDAR DAYS OF THE FINAL PAVING OPERATIONS.

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