

PAVEMENT REMOVAL ON APPROACH SLABS

15. THE FINAL ONE HALF INCH OF PAVEMENT ON THE AT-GRADE APPROACH SLABS SHALL BE REMOVED BY LOADER, GRADER, OR EQUIPMENT APPROVED BY THE ENGINEER. REMOVAL OF PAVEMENT ON THE APPROACH SLABS WILL BE PAID FOR UNDER ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT".
16. DURING AT-GRADE APPROACH SLAB PAVEMENT REMOVAL, THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE NO DAMAGE OCCURS TO THE EXISTING AT-GRADE APPROACH SLABS. ANY DAMAGE TO AT-GRADE APPROACH SLABS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. REPAIRS, IF APPLICABLE, SHALL BE MADE IN ACCORDANCE WITH SECTION 580.
17. THE AT-GRADE APPROACH SLABS SHALL BE CLEANED IN ACCORDANCE WITH SUBSECTION 580.04 AND TO THE SATISFACTION OF THE ENGINEER. REMOVAL OF THE BARRIER MEMBRANE, IF APPLICABLE, AND THE CLEANING OF THE AT-GRADE APPROACH SLABS WILL BE PAID FOR UNDER ITEM 580.16, "SURFACE PREPARATION FOR MEMBRANE". NO NEW BARRIER MEMBRANE WILL BE PLACED ON THE AT-GRADE APPROACH SLABS.

DECK REMOVAL AND RELATED ITEMS

18. ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" WILL INCLUDE REMOVAL OF ANY PORTIONS OF THE EXISTING STRUCTURE AS SHOWN ON THE PLANS, INCLUDING THE EXISTING BRIDGE DECK AND CURBS, SHEAR STUD/SPIRALS, SCUPPERS, BARRIER MEMBRANE, PAVEMENT, AND BRIDGE RAILING. ITEM 529.25, "REMOVAL OF CONCRETE OR MASONRY" WILL INCLUDE REMOVAL OF THE TOPS OF THE EXISTING CONCRETE WINGWALLS AT THE END OF EACH WINGWALL, THE CONCRETE CHEEKWALL, AND THE APPROACH SLAB CURBS. ITEM 525.10, "REMOVAL OF EXISTING BRIDGE RAILING" WILL INCLUDE REMOVAL OF THE EXISTING BRIDGE RAIL ALONG THE TOPS OF THE WINGWALLS. SEE BITUMINOUS CONCRETE/CONCRETE REMOVAL PLAN ON SHEET 27.
19. THE TOPS OF THE EXISTING CONCRETE WINGWALLS, THE CONCRETE APPROACH SLAB CURBS, AND THE CONCRETE DECK AT THE CURTAIN WALL SHALL BE REMOVED BY MECHANICAL MEANS AND THE REMAINING CONCRETE SHALL BE NEAT LINES. PROTECT ALL ELEMENTS INTENDED TO REMAIN, AND MAINTAIN EXISTING REINFORCING AS NOTED. IF EXISTING REINFORCING IS DAMAGED OR HAS SIGNIFICANT SECTION LOSS, ADDITIONAL STEEL SHALL BE DRILLED AND GROUTED. PAYMENT FOR THIS WORK WILL BE INCLUDED UNDER ITEM 507.11, "REINFORCING STEEL, LEVEL I" AND ITEM 507.16, "DRILLING AND GROUTING DOWELS". THE QUANTITIES FOR THESE TWO ITEMS AS SHOWN ON THE QUANTITY SUMMARY SHEETS INCLUDE AN ADDITIONAL ESTIMATED AMOUNT TO ACCOUNT FOR THIS WORK.
20. ONCE THE EXISTING PAVEMENT AND MEMBRANE ARE REMOVED FROM THE EXISTING AT-GRADE APPROACH SLABS, AND AFTER REMOVAL OF THE EXISTING BRIDGE DECK, ANY AREAS ON THE CONCRETE APPROACH SLABS, CONCRETE BEAM SEATS, AND THE FACES OF THE EXISTING CURTAIN WALLS 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 WHAT CLASS REPAIR IS REQUIRED TO REPAIR THE DETERIORATED PORTION OF THE CONCRETE BEAM SEAT AND THE LIMITS OF THE REPAIR. THE REPAIRS FOR THE CONCRETE BEAM SEAT WILL BE PAID FOR UNDER ITEM 580.13, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I" OR ITEM 580.14, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II, AS APPLICABLE. THE REPAIRS FOR THE CONCRETE APPROACH SLABS, CURTAIN WALLS, AND THE CLEANING OF ALL EFFLORESCENCE ON THE CONCRETE CURTAIN WALLS WILL BE PAID FOR UNDER ITEM 580.10, "REPAIR OF CONCRETE SUPERSTRUCTURE SURFACE, CLASS I", ITEM 580.11, "REPAIR OF CONCRETE SUPERSTRUCTURE, CLASS II", OR ITEM 580.12, "REPAIR OF CONCRETE SUPERSTRUCTURE, CLASS III", AS APPLICABLE. QUANTITIES FOR ITEMS 580.10, 580.11, 580.12, 580.13 AND 580.14 AS SHOWN ON THE QUANTITY SUMMARY SHEETS ARE ESTIMATED. HIGH PERFORMANCE CONCRETE, RAPID SET IS AN ACCEPTABLE ALTERNATE REPLACEMENT MATERIAL BUT WILL BE PAID FOR UNDER THE APPLICABLE REPAIR ITEM AS DETAILED ABOVE.

DECK REMOVAL AND RELATED ITEMS (CONTINUED)

21. AFTER THE REMOVAL OF THE EXISTING CONCRETE CHEEKWALL AT EACH BRIDGE CORNER, FLOWABLE FILL SHALL BE USED TO FILL ANY VOIDS BEHIND THE EXISTING CURTAIN WALL. THIS WORK WILL BE PAID FOR UNDER ITEM 541.45, "CONTROLLED DENSITY (FLOWABLE) FILL". THE EDGE SURFACE OF THE EXISTING CONCRETE CURTAIN WALL AT EACH BRIDGE CORNER SHALL BE CLEANED OF ANY DEBRIS OR LOOSE CONCRETE, ANY UNSOUND CONCRETE SHALL BE REMOVED, AND THE NEW CAST-IN-PLACE CONCRETE CURTAIN WALL EXTENSION SHALL BE POURED UP AGAINST THE EXISTING CONCRETE CURTAIN WALL SURFACE. PREPARING THE EXISTING CONCRETE SURFACE AND PLACING THE CURTAIN WALL EXTENSION WILL BE PAID FOR UNDER ITEM 900.608, "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, RAPID SET) (FPQ)".
22. THE JOINT BETWEEN THE NEW CONCRETE CURTAIN WALL EXTENSION AND THE END OF THE EXISTING CONCRETE WINGWALL SHALL BE FILLED WITH AN IMPERMEABLE CLOSED-CELL JOINT SEAL WITH EPOXY ADHESIVE CAPABLE OF ACCOMMODATING 0.34 INCHES OF EXPANSION AND 0.64 INCHES OF CONTRACTION AT 68 DEGREES. A JOINT DETAIL SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL. ALL COMPONENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.608, "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, RAPID SET) (FPQ)".

STEEL

23. AFTER ALL PAVEMENT AND MEMBRANE ARE REMOVED BUT PRIOR TO THE REMOVAL OF THE EXISTING CONCRETE DECK, THE CONTRACTOR SHALL TAKE TOP OF DECK ELEVATIONS EVERY 5 FEET ALONG THE CENTERLINE OF EACH BEAM FROM CENTERLINE TO CENTERLINE OF BEARING. AFTER THE EXISTING CONCRETE DECK HAS BEEN REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS EVERY 5 FEET ALONG THE TOP OF EACH BEAM FROM CENTERLINE TO CENTERLINE OF BEARING. THE TOP OF DECK AND TOP OF BEAM ELEVATIONS SHALL THEN BE SENT TO THE ENGINEER FOR USE IN DETERMINING THE FINAL PROFILE AND HAUNCH DEPTHS. THE CONTRACTOR SHALL EXPECT 24 HOURS FOR VTRANS TO PREPARE THE REVISED PROFILE AND HAUNCH DEPTH CALCULATIONS.
24. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. ANY REMOVED STRUCTURAL STEEL, IF APPLICABLE, IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE AND ITS OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED EXISTING STRUCTURAL STEEL.
25. UPON REMOVING THE DECK, THE TOPS OF THE BEAMS IN THE AREA OF THE SHEAR STUDS SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP11 REQUIREMENTS AND ALL APPLICABLE PROVISIONS PRIOR TO THE WELDING OF THE SHEAR STUDS. THE CONTRACTOR IS NOT REQUIRED TO APPLY NEW PAINT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE", EXCEPT AS NOTED IN PROJECT NOTE 26.
26. THE CONTRACTOR SHALL BE ADVISED TO TAKE EXPLORATORY CORINGS IN ALL AREAS WHERE EXISTING PAINT IS TO BE REMOVED UNDER THE DIRECTION OF THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE THE PRESENCE OF LEAD. PAYMENT FOR LEAD PAINT TESTING WILL BE CONSIDERED INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE". IF LEAD PAINT REMOVAL IS REQUIRED, PAINT REMOVAL, SURFACE PREPARATION, CONTAINMENT, AND DISPOSAL WILL BE PAID FOR AS EXTRA WORK IN ACCORDANCE WITH 104.03. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL NECESSARY LEAD ABATEMENT PERMITS.

REINFORCED CONCRETE

27. ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR CONCRETE, HIGH PERFORMANCE CLASS A, EXCEPT AS NOTED. THE CONTRACTOR SHALL PROVIDE TESTING EQUIPMENT FOR CONCRETE IN ACCORDANCE WITH SUBSECTION 631.05.
28. A REINFORCING STEEL SCHEDULE AND SHOP DRAWINGS MEETING THE REQUIREMENTS OF SUBSECTION 105.03 SHALL BE SUBMITTED. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 507.11, "REINFORCING STEEL, LEVEL I". ALL REINFORCING STEEL SHALL BE LEVEL I - EPOXY COATED AND MEET THE REQUIREMENTS OF SECTION 507.
29. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE. A MINIMUM OF TWO TEST SECTIONS ARE REQUIRED FOR EACH SIZE, BRAND, AND GRADE OR TYPE OF REINFORCING. SEE THE MANUAL FOR ACCEPTABLE DIMENSIONS OF TEST SECTIONS. EXTRA BARS FOR TESTING PURPOSES SHALL BE SPECIFIED IN THE WORKING DRAWING SUBMITTAL.
30. WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN THE DRIP NOTCHES. THIS WORK WILL BE PAID FOR UNDER ITEM 514.10, "WATER REPELLENT, SILANE".
31. THE 1/2" EXPANSION MATERIAL IN THE JOINT BETWEEN THE CONCRETE WINGWALL AND THE APPROACH SLAB CURB WILL BE CONSIDERED INCIDENTAL TO ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CLASS A".
32. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

ALONG BACK FACES OF WALL AGAINST EARTH:	2.0 INCH
ALONG TOP SURFACE OF DECK SLAB:	3.0 INCH
ALONG BOTTOM SURFACE OF DECK SLAB:	1.5 INCH
ELSEWHERE UNLESS OTHERWISE INDICATED:	3.0 INCH



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