

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, AND ITS LATEST REVISIONS.
2. BRIDGE IS DESIGNED FOR MS 22.5 LIVE LOAD WITH FUTURE ALLOWANCE OF 150 mm GRAVEL.
3. IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE OF THAT TIME FACTOR.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO ANY BROOK, STREAM OR RIVER.
5. THE CONTRACTOR SHALL NOT REMOVE ANY MORE TREES OR BRUSH THAN IS ABSOLUTELY NECESSARY FOR SATISFACTORY CONSTRUCTION OF THE PROJECT. THE NECESSITY FOR REMOVAL SHALL BE DETERMINED BY THE RESIDENT ENGINEER. ANY TREES REMOVED ON THE KEEFE PROPERTY SHALL REMAIN THE PROPERTY OF THE KEEFE'S. THE TREES SHALL BE CUT AND THE WOOD STACKED AT A LOCATION ON THE KEEFE'S PROPERTY TO BE DETERMINED BY THE RESIDENT ENGINEER AND THE KEEFE'S. THIS WORK SHALL BE INCIDENTAL TO THE ITEM "CLEARING AND GRUBBING (INCL. IND. TREES & STUMPS)".
6. A) THE EXISTING WINGWALLS AND ABUTMENTS AT ABUTMENT NO. 1 & 2 SHALL BE REMOVED UNDER THE ITEMS, "COFFERDAM EXCAVATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK". ANY PORTIONS OF THE EXISTING WINGWALLS/ABUTMENT THAT FALLS OUTSIDE OF THOSE LIMITS SHALL BE REMOVED TO 300 mm BELOW THE FINISHED CHANNEL GRADE OR TO LEDGE AND PAID FOR UNDER THE ITEM "UNCLASSIFIED CHANNEL EXCAVATION".  
  
B) THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR THE LAID UP STONE WALL NEAR WINGWALL NO. 3 THAT FALL OUTSIDE THE CONSTRUCTION LIMITS. ANY DAMAGE TO THE WALL WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. ITEM, 529.20, "PARTIAL REMOVAL OF STRUCTURE" WILL INCLUDE THE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND CURB/RAIL DOWN TO THE EXISTING BRIDGE SEAT ELEVATIONS.
8. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES C UNLESS OTHERWISE NOTED.
9. SPLICE DETAILS FOR THE HANDRAIL ARE ON SHEET 31 OF THE PLANS.
10. TEMPORARY FENCING SHALL BE PLACED BETWEEN STATIONS 1+000 LT - 1+060 RT, STATIONS 1+093 LT - 1+126LT AND STATIONS 1+025 RT - SIDELINE STA 9+045 RT TO RESTRICT ACCESS TO TWO AREAS THAT ARE ARCHAEOLOGICALLY SENSITIVE. THIS WORK WILL BE PAID FOR AS ITEM 620.70, "SNOW FENCE" (MOD. - ARCH).
11. THE EXISTING STONE WALKWAY LOCATED AT STA. 1 + 129.6 RT SHALL BE REMOVED. A NEW WALKWAY WILL BE INSTALLED AT THE SAME LOCATION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR UNDER ITEM 618.10, "PORTLAND CEMENT CONCRETE SIDEWALK 125 mm (MOD.). SEE SHEET 48 FOR ADDITIONAL DETAILS.
12. A) THERE WILL BE 2 - (50 - 75 mm CALIPER) SUGAR MAPLE TREES PLANTED AT APPROXIMATELY STATIONS 1+067.3 LT AND 1+079.5 LT. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE RESIDENT ENGINEER AND THE PROPERTY OWNER. THE APPROXIMATE LOCATIONS OF THESE TREES ARE SHOWN ON SHEET 8. THE TREES WILL BE PAID FOR UNDER THE ITEM 656.30, "DECIDUOUS TREES (SUGAR MAPLE ACER SACCHARUM, B&B, 50 - 75 mm CAL.)".  
  
B) THERE WILL BE 2 - (1.5 - 2.0 M) WHITE SPRUCE TREES PLANTED AT APPROXIMATELY STATIONS 1+113 RT AND 1+107 RT. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE RESIDENT ENGINEER AND THE PROPERTY OWNER. THE APPROXIMATE LOCATIONS OF THESE TREES ARE SHOWN ON SHEET 8. THE TREES WILL BE PAID FOR UNDER THE ITEM 656.20, "EVERGREEN TREES (WHITE SPRUCE, PICEA GLAUCA, B&B, 1.5 - 2.0 M)".

CONCRETE

13. THE HEIGHT OF FILL BEHIND ABUTMENTS WILL BE LIMITED TO THE BRIDGE SEAT ELEVATION UNTIL THE DECK HAS BEEN POURED AND THE CURING PERIOD IS UP.
14. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT, ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
15. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 mm BY 25 mm.
16. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
17. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
18. REINFORCING PLACEMENT TOLERANCES SHALL BE:  
SPACING +/- 25 mm  
CLEARANCE +/- 5 mm

19. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 50 mm ALONG THE BACK FACES OF WALLS AGAINST EARTH AND ALONG THE BOTTOM SURFACE OF THE DECK AND 80 mm ELSEWHERE, UNLESS OTHERWISE NOTED.
20. WATER REPELLENT (MOD-SILANE) SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN THE DRIP BEADS.
21. THE CONCRETE SLAB AND SUBSTRUCTURE CONCRETE SHALL BE HIGH PERFORMANCE CONCRETE, CLASS B. THE CONCRETE CURBS SHALL BE HIGH PERFORMANCE CONCRETE, CLASS B (MOD.).

LEDGE

22. FOOTINGS SHALL BE PLACED ON SOUND, CLEAN LEDGE, ALL OVER BREAKAGE BELOW INDICATED BOTTOM OF FOOTING SHALL BE REPLACED WITH "HIGH PERFORMANCE CONCRETE, CLASS B." A MAXIMUM OF 150 mm AVERAGE DEPTH SHALL BE PAID FOR AS "HIGH PERFORMANCE CONCRETE, CLASS B.". ANY ADDITIONAL CONCRETE REQUIRED SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE. THE QUANTITIES SHOWN FOR "HIGH PERFORMANCE CONCRETE, CLASS B" AND "COFFERDAM EXCAVATION, ROCK" INCLUDES THE ADDITIONAL VOLUMES THAT MAY BE INCURRED DUE TO THE OVER BREAKAGE.
23. WHEN SOUND LEDGE IS ENCOUNTERED, PROFILES OF THE LEDGE SHALL BE SUBMITTED TO THE STRUCTURES SECTION TO DETERMINE WHETHER THE FOOTINGS FOR THE ABUTMENTS NEED TO BE ADJUSTED. NO FURTHER WORK SHALL BE DONE ON THE FOOTINGS UNTIL A REPLY IS RECEIVED FROM THE STRUCTURES SECTION.

TEMPORARY DETOUR

24. THE WOODS HOLLOW BRIDGE ROAD (TH 4) SHALL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION.
25. THE CONTRACTOR SHALL NOTIFY THE TOWN CLERK OF WESTFORD AT (802) 878-4597 A MINIMUM OF TWO(2) WEEKS PRIOR TO CLOSING THE ROADS.
26. A) THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE DETOUR SIGNS FOR THE CLOSURE OF THE BRIDGE. THE DETOUR SIGN PACKAGE IS SHOWN ON SHEETS 14-15. ALL SIGNS MUST BE INSTALLED PRIOR TO CLOSURE OF THE BRIDGE. THIS WORK WILL BE PAID FOR UNDER THE ITEMS 675.20, "TRAFFIC SIGNS, TYPE A (MOD) AND 675.301, "FLANGED CHANNEL SIGN POST (MOD)".  
  
B) THE INSTALLATION OF THE DETOUR SIGNS AND ANY ADDITIONAL SIGNS NOT INCLUDED IN THE DETOUR PLAN BUT DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL BE PAID FOR AS ITEMS, 675.20, "TRAFFIC SIGNS, TYPE A (MOD)" AND 675.301, "FLANGED CHANNEL SIGN POST (MOD)."  
  
C) ALL DETOUR SIGNS AND POSTS SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER. THE SIGNS AND POSTS WILL BECOME THE PROPERTY OF THE CONTRACTOR. THIS WORK WILL BE INCIDENTAL TO ITEMS 675.20, "TRAFFIC SIGNS, TYPE A (MOD)" AND 675.301, "FLANGED CHANNEL SIGN POST (MOD)".
27. IF THE CONTRACTOR HAS TO REMOVE AND RESET DETOUR SIGNS DUE TO INCORRECT PLACEMENT OR SIGHT DISTANCE PROBLEMS AS DEEMED BY THE ENGINEER, THE WORK NECESSARY TO COMPLETE THIS TASK WILL BE INCIDENTAL TO THE ITEM 641.10, "TRAFFIC CONTROL".
28. THE REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
29. THE COST OF ALL ON-PROJECT CONSTRUCTION SIGNING AND BARRICADES SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
30. ACCESS TO DRIVES SHALL BE MAINTAINED. WHEN THE CONTRACTOR MUST TEMPORARILY RESTRICT ACCESS TO THE DRIVES, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS IN ADVANCE. THIS WORK WILL BE PAID FOR UNDER THE ITEM 641.10, "TRAFFIC CONTROL".

MISCELLANEOUS

31. EXISTING TRAFFIC SIGNS (MARKED FOR REMOVAL) AND SIGN POSTS (AS SHOWN ON SHEETS 40 AND 41) SHALL BE REMOVED AND STOCKPILED ON THE PROJECT. THEY WILL REMAIN THE PROPERTY OF THE TOWN. THE CONTRACTOR SHALL BE PREPARED TO LOAD THE SIGNS ON TRUCKS FURNISHED AT THE SITE BY THE TOWN FOR REMOVAL FROM THE SITE BY THE TOWN. NOTIFICATION MUST BE GIVEN ONE WEEK IN ADVANCE TO THE TOWN INDICATING WHEN THE MATERIAL WILL BE AVAILABLE. CONTACT GARY ESTUS, ROAD FOREMAN AT (802) 879-4306. THIS WORK WILL BE PAID FOR UNDER THE ITEM 675.50, "REMOVING SIGNS".

PROJECT NAME:	WESTFORD		
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FILE NAME:	194j122Structures1j122gen.xls	PLOT DATE:	3/23/2005
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GENERAL NOTES SHEET	SHEET		29 OF 56