

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS ITEM OF WORK SHALL INCLUDE SAW CUTTING THE EXISTING PAVEMENT, PAVEMENT REMOVAL AND DISPOSAL, AND THE EXCAVATION OF THE TRENCH FOR THE TIE-BACK ROD. AFTER THE ROD HAS BEEN INSTALLED, THE TRENCH SHALL BE BACKFILLED WITH SUITABLE MATERIAL, 6" OF ITEM 304 SHALL BE PLACED, ALONG WITH 12-1/2" OF CONCRETE BASE AND TOPPED WITH 1-1/2" OF ASPHALT SURFACE COURSE, AS DETAILED ON SHEET 2.

ALL COSTS TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 253 - PAVEMENT REPAIR, AS PER PLAN AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR.

THE FOLLOWING ESTIMATED QUANTITY SHALL BE CARRIED TO THE GENERAL SUMMARY (BASED ON 3 TIE BACK BARS AND A TOTAL PAVEMENT WIDTH OF 22'):

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN . . . . . 22 SQ. YD.

ITEM 606 GUARDRAIL, TYPE 5A  
ITEM 606 GUARDRAIL, TYPE 5, AS PER PLAN

ITEM 606 GUARDRAIL, TYPE 5A IS TO BE INSTALLED WHERE THE DISTANCE FROM THE FACE OF RAIL TO THE BACK OF HP 12X53 VERTICAL PILES EXCEEDS 3'-6".

AT LOCATIONS WHERE THIS DIMENSION IS LESS THAN 3'-6", ITEM 606 GUARDRAIL, TYPE 5, AS PER PLAN SHALL BE INSTALLED. IN LIEU OF DRIVING POSTS, THE GUARDRAIL SHALL BE CONNECTED TO THE HP 12X53 VERTICAL PILES. HP 12X53 SPACERS SHALL BE WELDED TO THE BACK OF THE VERTICAL PILES WHERE THE BLOCKOUT REQUIRED IS GREATER THAN 8". WOODEN BLOCKOUTS SHALL BE CUT TO FIT TO MAKE UP THE DIFFERENCE.

ITEM 507 STEEL PILES

PILES SHALL BE DRIVEN TO REFUSAL ON BEDROCK. REFUSAL SHALL BE CONSIDERED TO BE OBTAINED BY PENETRATING SOFT BEDROCK FOR 3" WITH A MINIMUM RESISTANCE OF 20 BLOWS PER INCH.

WHILE CONSIDERED TO BE BEARING PILES, AN ULTIMATE BEARING VALUE IS NOT GIVEN. THE PILES ARE TO BE SEATED A MINIMUM OF 6" INTO THE TOP OF THE SHALE SHOWN AT ELEVATION 657.9' ON THE RECORD SOIL BORING AT STA 24+50, 8' LEFT.

AN ADDITIONAL 10.25' FURNISHED LENGTH IS PROVIDED FOR PILES SUPPORTING TIMBER LAGGING. THE EXTRA LENGTH IS COMPRISED OF 8' FOR THE TIMBER LAGGING AND AN ADDITIONAL 2.25' TO PROVIDE SUFFICIENT HEIGHT TO SUPPORT TYPE 5 GUARDRAIL.

ITEM 521 - BRIDGE TIMBER, AS PER PLAN

THE TIMBER SHALL BE OF A GRADE AND TYPE WITH AN ALLOWABLE EXTREME FIBER STRESS IN BENDING OF A MINIMUM OF 1200 PSI. THE TIMBER MATERIAL SHALL BE REDWOOD NO. 1 OR SELECT STRUCTURAL; DOUGLAS FIR-LARCH NO. 1, DENSE NO. 1, SELECT STRUCTURAL, OR DENSE SELECT STRUCTURAL; EASTERN HEMLOCK SELECT STRUCTURAL OR WESTERN HEMLOCK SELECT STRUCTURAL. THE SAME SPECIES SHALL BE USED FOR ALL THE TIMBER MEMBERS REQUIRED. THE WOOD SHALL BE SEASONED, SOUND, AND FREE FROM DECAY AND INSECT ATTACK, WITH NO LOUSE AND OR CLUSTER KNOTS. THE END OF THE TIMBERS SHALL BE SAWED SQUARED WITH THE AXIS OF THE TIMBER. THE TIMBER MEMBERS SHALL ALSO CONFORM TO 711.26 OF THE ODOT CMS. THE WOOD SHALL BE PRESSURE TREATED WITH A WOOD PRESERVATIVE TREATMENT IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD C1-74. THE PRESERVATIVE SOLUTION SHALL BE WATER-BORNE PRESERVATIVE CONFORMING TO CHROMATED COPPER ARSENATE (CCA), TYPE C, CONFORMING TO AASHTO M133. THE RETENTION OF THE PRESERVATIVE BY THE TIMBER SHALL NOT BE LESS THAN 0.6 POUNDS PER CUBIC FOOT. INSPECTION OF THE PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 712.06 OF THE ODOT CMS.

HARDWOOD SHIMMING SHALL BE USED AS NEEDED TO MAINTAIN THE POSITIONING OF THE TIMBER MEMBERS AGAINST THE INTERIOR FLANGE FACE OF THE HP12X53 MEMBERS.

TIMBER FURNISHED SHALL BE 8" THICK. AN ESTIMATED NUMBER OF 8 8'x8' SQUARE PANELS ARE REQUIRED BETWEEN PILES, APPROXIMATELY 4.1 MFBM.

ALL EQUIPMENT, MATERIALS (INCLUDING SHIMS), AND LABOR REQUIRED TO INSTALL THE TIMBER SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 521-BRIDGE TIMBER, AS PER PLAN.

ITEM 863 STRUCTURAL STEEL, MISC.: TIEBARS AND ACCESSORIES

THE COST OF ALL UPSET END TIE BARS, TURNBUCKLES, NUTS, WASHERS, STEEL PLATES, CUTTING, DRILLING, WELDING, SHIMS AND BRACING, LABOR AND EQUIPMENT NECESSARY TO INSTALL TIEBARS AND MAKE CONNECTIONS BETWEEN WALERS AND ANCHOR PILES AS INDICATED IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 863 STRUCTURAL STEEL, MISC.: TIEBARS AND ACCESSORIES. THE LOCATION OF TIEBARS SHALL BE ADJUSTED TO AVOID ANY CONFLICTS WITH EXISTING DRAINAGE.

ITEM 603 6" CONDUIT, TYPE C

THIS ITEM IS PROVIDED TO REPLACE THE EXISTING 6" DRAIN TILE LOCATED UNDER THE RIGHT EDGE OF BERM THAT WILL INEVITABLY CONFLICT WITH THE LOCATION OF THE TIEBARS. THE DEPTH OF THE SEWER PIPE IS UNKNOWN. THE FOLLOWING CONTINGENCY QUANTITY IS CARRIED TO THE GENERAL SUMMARY TO ACCOMPLISH THIS ITEM OF WORK.

ITEM 603 6" CONDUIT, TYPE C . . . . . 15 LIN FT

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