

ITEM 530 – SPECIAL – 3/4" HEX BOLT
ITEM 530 – SPECIAL – 1/2" CARRIAGE BOLT

BOLTS SHALL CONFORM TO THE DIMENSIONS AS SHOWN IN THE STRUCTURE DETAILS OF THESE PLANS. ALL BOLTS ARE TO MEET ASTM A307 GRADE A. ALL BOLTS ARE TO BE GALVANIZED.

PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER EACH OF THE SUPPLIED FASTENER, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 530 – SPECIAL – 3/4" HEX NUT
ITEM 530 – SPECIAL – 1/2" HEX NUT
ITEM 530 – SPECIAL – 1-1/4" HEX NUT

ALL NUTS USED ON THIS PROJECT ARE TO MEET ASTM A563A. ALL NUTS ARE TO BE GALVANIZED.

PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER EACH OF THE SUPPLIED FASTENER, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 530 – SPECIAL – 3/4" STD. WASHER, +/-1/8" THICK
ITEM 530 – SPECIAL – 1/2" STD. WASHER, +/-1/8" THICK
ITEM 530 – SPECIAL – 1-1/4" STD. WASHER

ALL WASHERS USED ON THIS PROJECT ARE TO MEET ASTM F844. ALL WASHERS ARE TO BE GALVANIZED. THE +/-1/8" THICK REQUIREMENT MAY BE ACHIEVED BY THE USE OF MULTIPLE STACKED WASHERS. HOWEVER, FOR ESTIMATING PURPOSES, EACH +/-1/8" THICK WASHER OR STACK OF WASHERS, IS COUNTED AS ONE PIECE.

PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER EACH OF THE SUPPLIED FASTENER, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 530 – SPECIAL – 10-1/4" X 22-1/2" X 3/4" PLATE
ITEM 530 – SPECIAL – 4" X 4" X 3/4" PLATE

ALL STEEL PLATES ON THIS PROJECT ARE TO MEET ASTM A709, GRADE 36 OR GRADE 50. ALL STEEL PLATES ARE TO BE GALVANIZED PER C&MS 711.02.

PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER EACH OF THE SUPPLIED FASTENER, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 530 – SPECIAL – #10 X 3-1/2" 16d COMMON GALVANIZED NAIL
ITEM 530 – SPECIAL – #13 X 2-1/2" 8d RINGSHANK GALVANIZED NAIL

ALL NAILS USED ON THIS PROJECT SHALL BE RATED FOR USE WITH ACQ TREATED WOOD. ALL NAILS SHALL BE GALVANIZED. SPACING AND QUANTITY OF NAILS PER CONNECTION SHALL BE AS DETAILED ON THE STRUCTURE DETAILS SHEETS OF THIS PLAN.

PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER POUND OF THE SUPPLIED FASTENER, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK.

ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 6" X 6" LUMBER (S-1)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 10" LUMBER (S-2)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 8" LUMBER (S-3)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 5/4" X 6" LUMBER (S-4)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 12" LUMBER (S-5)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 4" LUMBER (S-6)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 6" LUMBER (S-7)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 6" LUMBER (S-8)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 6" X 6" LUMBER (S-9)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 6" X 6" LUMBER (R-1)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 10" LUMBER (R-2)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 8" LUMBER (R-3)

ALL ITEMS:
ALL MATERIAL SHALL BE SOUTHERN PINE, NO. 2 OR BETTER, TREATED WITH CA-C (COPPER AZOLE, TYPE C) IN ACCORDANCE WITH AWPA STANDARD U1, COMMODITY A, TO THE REQUIREMENTS OF USE CATEGORY 4B (UC4B). IN THE ABSENCE OF AVAILABILITY OF THE CA-C MATERIAL, MCA (MICRONIZED COPPER AZOLE) MAY BE SUBSTITUTED CONFORMING TO THE SAME AWPA STANDARDS LISTED ABOVE. MCA MAY NOT BE CHOSEN OVER CA-C FOR ANY REASON OTHER THAN AVAILABILITY. IF MCA IS CHOSEN, THE CONTRACTOR MUST PROVIDE DOCUMENTATION TO THE PROJECT ENGINEER DEMONSTRATING THE LACK OF AVAILABILITY OF MATERIAL TREATED WITH CA-C AND RECEIVE APPROVAL FOR THE SUBSTITUTION. CUT LISTS AND DIAGRAMS MAY BE FOUND IN THE STRUCTURE DETAILS INCLUDED IN THESE PLANS. UNLESS DETAILED IN THIS NOTE OR ELSEWHERE IN THE PLANS, ALL MATERIALS SHALL BE A MILL-FINISHED SURFACE. NOMINAL AND EXPECTED ACTUAL FINAL DIMENSIONS OF EACH PART TYPE ARE LISTED IN THE STRUCTURE DETAILS AS PART OF THIS PLAN.

~~PAYMENT WILL BE MADE AT THE CONTRACT BID PRICE PER LINEAR FOOT OF SUPPLIED MATERIAL, MACHINED, INSTALLED, AND ACCEPTED, AND WILL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK NOT OTHERWISE ITEMIZED IN THESE PLANS.~~

ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 10" LUMBER (S-2)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 8" LUMBER (S-3)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 10" LUMBER (R-2)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 3" X 8" LUMBER (R-3)
THESE MATERIALS SHALL BE FINISH SURFACED THREE SIDES (S3S) ON THE TOP, TRAFFIC OR PEDESTRIAN FACE, AND BOTTOM. THE POST SIDE OF THE MATERIAL SHALL BE A MILLED SURFACE. FINAL ACTUAL DIMENSIONS SHALL CONFORM WITH THOSE LISTED IN THE STRUCTURE DETAILS OF THIS PLAN.

ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 5/4" X 6" LUMBER (S-4)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 12" LUMBER (S-5)
ITEM 530 – SPECIAL – STRUCTURES: SOUTHERN PINE, NO. 2 OR BETTER 2" X 4" LUMBER (S-6)
THESE MATERIALS SHALL BE FINISH SURFACED FOUR SIDES (S4S). FINAL ACTUAL DIMENSIONS SHALL CONFORM WITH THOSE LISTED IN THE STRUCTURE DETAILS OF THIS PLAN.

STAGING AREAS

STAGE ONLY THE MATERIALS THAT WILL BE USED EACH WORKING DAY IN THE WORK ZONE OR STAGING AREA SHOWN IN THE MAINTENANCE OF TRAFFIC DETAILS IN THESE PLANS. STAGE ALL OTHER MATERIALS AT THE ODNR MOHICAN MAINTENANCE FACILITY LOCATED AT 744 STATE ROUTE 97, PERRYSVILLE, OHIO 44864. COORDINATE DELIVERIES OF AND ACCESS TO MATERIALS WITH THE MOHICAN STATE PARK MANAGER.

ANY MATERIAL STAGED AT THE SITE AT DETAILED IN THE MAINTENANCE OF TRAFFIC DETAILS IN THESE PLANS THAT IS NOT USED BY THE END OF EACH WORKING DAY MUST BE RETURNED TO THE MOHICAN MAINTENANCE FACILITY FOR SECUREMENT DURING NON-WORK HOURS.

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK WILL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 624 – MOBILIZATION.

MATERIAL SPECIFICATION SUBSTITUTION

THOUGH EVERY EFFORT WAS MADE TO NOT LEAVE ANY REFERENCES TO RED OAK IN THESE PLANS, ANY REFERENCE TO RED OAK REMAINING IN THESE PLANS IS TO BE SUBSTITUTED WITH "SOUTHERN PINE, NO. 2 OR BETTER."

DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM FOUR

DESIGNER
KCK

REVIEWER
NRF 03/01/21

PROJECT ID
112948

SUBSET	TOTAL
2	2

SHEET	TOTAL
P.003	15