

**MATERIALS FOR LUMBER AND TIMBER**

MEMBER TYPE	EXISTING SIZE (ACTUAL SIZE)	PROPOSED SIZE (SAWN TO ACTUAL SIZE, UNLESS NOTED OTHERWISE)	PROPOSED SPECIES & STRESS GRADE	PRESERVATIVE PRESSURE TREATMENT	FINISH	PAY ITEM FOR COMPONENT
TRUSS - TOP CHORDS	9"x9"	9"x11"	SOUTHERN PINE SEL. STR. DENSE		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
TRUSS - BOTTOM CHORDS	(4) 8"x8"	(4) 8"x8"	SOUTHERN PINE NO. 1	TYPE IV	ROUGH	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
TRUSS - ARCHES (AT BEARINGS)	(2) 5"x12"	(2) 5"x12"	SOUTHERN PINE NO. 1	TYPE IV	ROUGH	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
TRUSS - ARCHES (ALL OTHERS)	(2) 5"x12"	(2) 5"x12"	EASTERN HEMLOCK NO. 1 (TYP)		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
TRUSS - DIAGONALS	9"x6"	9"x6"	EASTERN HEMLOCK NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
TRUSS - POSTS	9"xVARIES	9"xVARIES (TO MATCH EXISTING)	EASTERN HEMLOCK NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
TRUSS - UPPER CHECK BRACES	8-1/2"x3"	8-1/2"x3"	EASTERN HEMLOCK NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
TRUSS - LOWER CHECK BRACES	8-1/2"x3"	8-1/2"x3" (8-1/2"x4" AT ARCH BEARINGS)	SOUTHERN PINE NO. 1	TYPE IV	ROUGH	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
TRUSS - SHEAR KEY (AT BOTTOM CHORD)	TAPERED 5-1/2"x5-1/2" x18" LONG	6"x6"x20", CUT TO MATCH EXISTING SHAPE	WHITE OAK NO KNOTS, SLOPE OF GRAIN ≤ 1:12		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
RAFTERS	4"x4"	4"x4"	EASTERN SPRUCE NO 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
ROOF SHEATHING	1"xVARIES	1"xVARIES	EASTERN SPRUCE OR EASTERN HEMLOCK NO 1 COMMON		ROUGH	522.30 - NONSTRUCTURAL LUMBER, UNTREATED
TIE BEAMS	8"x8"	8"x8"	EASTERN HEMLOCK NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
UPPER LATERAL BRACES	5"Wx4"D	5"Wx4"D	EASTERN SPRUCE NO 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
KNEE BRACES	4"x4"	4-1/2"Wx5"D	EASTERN HEMLOCK SELECT STRUCTURAL, NO KNOTS		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
STRUCTURAL SIDING NAILERS	5"Wx3"D	5"Wx3"D	EASTERN SPRUCE NO 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
SIDING	1"xVARIES	1"xVARIES	EASTERN HEMLOCK NO 1 COMMON		ROUGH	522.30 - NONSTRUCTURAL LUMBER, UNTREATED
SIDING TRIM & NAILERS	VARIES	(MATCH EXISTING); 2"x6" FOR NEW BOTTOM NAILER AT SIDING	EASTERN SPRUCE NO 1 COMMON		ROUGH	522.30 - NONSTRUCTURAL LUMBER, UNTREATED
RAILS	2"x8", 2"x12"	3"x8"	EASTERN SPRUCE NO 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
FLOOR BEAMS	12"x12"; 5"x12"+7"x12"	VARIES; SEE FLOOR PLAN SHEET 29	SOUTHERN PINE NO. 1	TYPE IV	ROUGH	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
WEARING SURFACE	1-1/2"x9-1/4"	2"x10"	WHITE OAK NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
FLOOR DECKING	1-1/2"x5-1/2" (I.E. NOMINAL 2x6)	DRESSED 2x6 (I.E. 1½"x5½" AFTER SURFACING)	SOUTHERN PINE NO. 1	TYPE IV	DRESSED (\$45)	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
CRIBBING	VARIES	6"x6" TO 8"x8" AS NEEDED	SOUTHERN PINE NO. 1	TYPE IV	ROUGH	522.25 - STRUCTURAL LUMBER AND TIMBER, TREATED
BLOCKING	N/A	AS NOTED	EASTERN HEMLOCK NO. 1, UNLESS OTHERWISE NOTED		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED
PATCHES *	N/A	AS NOTED	SPECIES TO MATCH EXISTING MEMBER NO. 1		ROUGH	522.20 - STRUCTURAL LUMBER AND TIMBER, UNTREATED

TYPE IV PRESERVATIVE = CHROMATED COPPER ARSENATE (SUBSECTION 726.01).

\*METHOD OF CONSTRUCTION FOR PATCHES:  
AT PATCHES CUT PATCH FOR TIGHT FIT ON ALL SIDES 1/32" MAX GAP, PATCH GRAIN ORIENTATION SHALL MATCH THE GRAIN OF THE PATCHED MEMBER. EPOXY ALL SURFACES IN CONTACT AND FASTEN WITH SCREWS AS SPECIFIED IN DETAILS SHOWN IN PLANS. CROSS CUTS SHALL BE CUT PERPENDICULAR TO THE GRAIN UNLESS OTHERWISE NOTED.

**MINIMUM DESIGN VALUES  
FOR NEW LUMBER & TIMBER**

SPECIES	SIZE CLASSIFICATION	GRADE	F <sub>b</sub> (PSI)	F <sub>t</sub> (PSI)	F <sub>v</sub> (PSI)	F <sub>cL</sub> (PSI)	F <sub>c</sub> (PSI)	E (PSI)	E <sub>min</sub> (PSI)
SOUTHERN PINE	TIMBERS	SEL. STR. DENSE	1750	1200	165	440	1100	1,600,000	580,000
SOUTHERN PINE	TIMBERS	NO. 1	1350	900	165	375	825	1,500,000	550,000
SOUTHERN PINE	1.5"x5.5"	NO. 1	1650	900	175	565	1750	1,700,000	620,000
EASTERN HEMLOCK	BEAMS & STRINGERS	NO. 1	1150	775	155	550	800	1,200,000	440,000
EASTERN HEMLOCK	POSTS & TIMBERS	NO. 1	1050	700	155	500	875	1,200,000	440,000
EASTERN HEMLOCK	DIMENSION LUMBER	NO. 1	775	350	170	555	1000	1,100,000	400,000
EASTERN SPRUCE	BEAMS & STRINGERS	NO. 1	900	600	135	390	625	1,400,000	510,000
EASTERN SPRUCE	POSTS & TIMBERS	NO. 1	800	550	135	390	675	1,400,000	510,000
EASTERN SPRUCE	DIMENSION LUMBER	NO. 1/ NO. 2	875	400	135	335	1050	1,200,000	440,000

SIZE CLASSIFICATIONS:  
"DIMENSION LUMBER" = 2" TO 4" (NOMINAL) THICK  
"TIMBERS" = 5"x5" (NOMINAL) AND LARGER  
"BEAMS & STRINGERS" = 5" (NOMINAL) OR MORE THICK, WIDTH MORE THAN 2" GREATER THAN THICKNESS  
"POSTS & TIMBERS" = 5" (NOMINAL) OR MORE THICK, WIDTH NOT MORE THAN 2" GREATER THAN THICKNESS

PROJECT NAME: CHARLOTTE  
PROJECT NUMBER: BHO 1445(34)

FILE NAME: z06J088gen.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: B.O. CRONIN  
PROJECT NOTES (3 OF 3)

PLOT DATE: 10/4/2012  
DRAWN BY: E.A. FIALA  
CHECKED BY: K.E. HILL  
SHEET 25 OF 55

