CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1500 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PREFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 95% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 2500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 40 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YEILD STRESS = 85 KSI.
6. CONCRETE SHALL BE STANDARD MIX F'c = 2500 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.

COLLAR TIE BOLTING NOTES:

1. PROVIDE 5/8"ϕ X 8" THROUGH BOLTS AT EACH END OF COLLAR TIES, ALONG CENTER LINE, 2" IN FROM UPPER AND LOWER FACE OF ROOF RAFTER. BOLTS SHALL HAVE 3" SQ. WASHERS AT THE HEAD & NUT. REFER TO THE PROFILE VIEW ON ROOF FRAMING PLAN FOR NUMBER OF BOLTS REQUIRED.
2. WHERE THE KING POST (AND WEB MEMBERS) MEET THE COLLAR TIES, PROVIDE 5/8"ϕ X 8" THROUGH BOLTS AT EACH MEMBER, AT CENTER LINE OF THE COLLAR TIES. BOLTS TO HAVE 3" SQ. WASHERS AT THE HEAD & NUT.
3. AT THE KING POST, WHERE IT JOINS THE RIDGE BOARD, PROVIDE 2 3" X 6" X 1/4" STL. ANGLES X 3" LONG WITH 1 - 11/16"ϕ HOLE IN THE LONG LEG & 1 - 7/16"ϕ HOLE IN THE SHORT LEG. PROVIDE 1 - 5/8"ϕ X 5" THROUGH BOLT AND 2 - 3/8"ϕ X 6" LAG SCREWS. PLACE LAG SCREWS ALONG C.L. OF BOTTOM FACE OF THE RIDGE BOARD, PLACE THE THROUGH BOLT ALONG THE C.L. OF THE KING POST. THE PILOT HOLE FOR THE LAG SCREWS SHALL NOT BE LARGER THAN THE ROOT DIA. OF THE LAG SCREWS.
4. SIMILAR AS NOTED IN Nr. 3, ABOVE, SECURE THE WEB MEMBERS TO THE ROOF RAFTERS IN A LIKE MANNER - ADJUST THROUGH BOLT LENGTH TO ACCOMMODATE THE SIZE OF THE WEB MEMBER (9" FOR 4X8).
5. BORE ALL HOLES TRUE AND PLUMB, USING BITS OF THE SAME SIZE DIA. AS THE THROUGH BOLTS FOR A SNUG DRIVE FIT.

COMPOUND BEAM BOLTING NOTES:

1. LAYOUT & ASSEMBLE BEAM COMPONENTS ON A LEVEL, TRUE SURFACE OF SUFFICIENT SIZE TO ALLOW COMPLETE ASSEMBLY. BEAM WILL BE HOISTED INTO PLACE BY MECHANICAL MEANS FOLLOWING ASSEMBLY, BE SURE TO ALLOW FOR REQUIRED CLEARANCES.
2. ACCURATELY LAYOUT ALL SPLIT RING & BOLT CUTS SO THAT ALL MEMBERS WILL FIT TOGETHER WITHOUT BINDING.
3. BORE ALL BOLT HOLES TRUE AND PLUMB, USING BITS OF A SIZE 1/16" LARGER THAN THE REQ'D BOLT, FOR A LOOSE FIT. REFER TO PLANS FOR REQUIRED BOLT SIZE, NUMBER AND PATTERN.
4. ASSEMBLE BEAM WITH ALL OF THE DETAILED RINGS & BOLTS PRIOR TO PLACEMENT OF BEAM - TIGHTEN ALL BOLTS UNTIL CRUSHING OF THE WOOD UNDER THE WASHERS IS 1/16" DEEP.
5. AS THE BEAM DRIES OUT, RETIGHTEN ALL OF THE BOLTS TO THE POINT THAT CRUSHING OF THE WOOD BEGINS. CONTINUE TIGHTENING ALL OF THE BOLTS AT REGULAR INTERVALS, UNTIL NO FURTHER WOOD SHRINKAGE OCCURS. PERIODICALLY CHECK BOLTS FOR LOOSENESS, & TIGHTEN AS REQUIRED. MAINTAIN BOLTS IN A TIGHTENED STATE !!

WOOD / LOG STRUCTURAL NOTES:

1. ALL HORIZONTAL LUMBER FRAMING 2" THICK OR LESS, SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   INTERIOR: SOUTHERN YELLOW PINE, Nr.2 OR BETTER
   EXTERIOR: PRESSURE TREATED S.Y.P., Nr.2 OR BETTER
   ALL HORIZONTAL LUMBER FRAMING 3" THICK OR GREATER SHALL BE SOUTHERN BALDCYPRESS, Nr.2 OR BETTER OR WESTERN RED CEDAR, Nr.2 OR BETTER, UNLESS NOTED OTHERWISE - REFER TO PURCHASE AGREEMENT FOR SPECIES AND PLANS FOR "MACHINE STRESS GRADE" REQUIREMENTS, IF ANY.
2. SECOND LOG COURSE SHALL BE ANCHORED TO THE FIRST COURSE W/ 3/8"ϕ LAG SCREWS (8" LONG FOR 6" LOGS, 10" LONG FOR 8" LOGS) @ 24" O.C. - SUBSEQUENT WALL LOGS SHALL BE ANCHORED IN A LIKE MANNER TO PRECEDING LOGS - LOG STYLE, SIZE AND SPECIES SHALL BE AS PER THE PURCHASE AGREEMENT.
3. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
4. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
5. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN Nr.2 HEM-FIR OR BETTER.
6. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.
   FOR OTHER CONDITIONS, REFER TO SRLH FOR RECOMMENDATION.

GENERAL NAILING SCHEDULE:

NUMBER OF NAILS FOR CONNECTING WOOD MEMBERS:

CONNECTION	COMMON NAILS	Nr. / SPACING
BRIDGING TO JOIST, TOE NAIL	16d	2 EA. END
2" SUBFLOOR TO JOIST, BLIND & FACE NAILING	16d	2
SOLE PLATE TO JOIST OR BLOCKING FACE NAILED	16d	16" O.C.
TOP OR SOLE PLATE TO STUD END NAILED	16d	2
STUD TO SOLE PLATE, TOE NAILED	8d	3 OR 2 16d
DOUBLE STUDS, FACE NAILED	16d	24" O.C.
DOUBLE TOP PLATES, FACE NAILED	16d	16" O.C.
TOP PLATES - LAPS & INTERSECTIONS FACE NAILED	16d	2
1 X 6 SHEATHING TO EACH POINT OF BEARING, FACE NAILED	8d	2
BUILT-UP CORNER STUDS, FACE NAILED	16d	30" O.C.
BUILT-UP GIRDERS & BEAMS	20d	32" O.C. @ TOP & BOTTOM & STAGGERED - 2 @ EA. END & @ SPLICES
3/4" PLYWOOD SUBFLOORING	8d	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE
OSB SHEATHING, 7/16" THICK	8d	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE
1/8" FIBERBOARD SHEATHING	6d	3" O.C. @ EDGES 6" O.C. @ INTERMEDIATE

A. NAILS, BOLTS AND OTHER METAL CONNECTORS WHICH ARE USED IN LOCATIONS EXPOSED TO THE WEATHER SHALL BE GALVANIZED OR OTHERWISE CORROSION RESISTANT.

B. IN GENERAL, NAILS SHALL PENETRATE THE SECOND MEMBER A DISTANCE EQUAL TO THE THICKNESS OF THE MEMBER BEING NAILED THERETO, OR GREATER.

C. THERE SHALL BE NOT LESS THAN 2 NAILS PER CONNECTION.

D. GLUING SHALL NOT BE CONSIDERED AN ACCEPTABLE CONNECTOR IN LIEU OF THOSE SPECIFIED HEREIN.

E. FORMED METAL CONNECTORS, AS PER THE SCHEDULE HEREIN, SHALL HAVE THE NUMBER OF NAILS INSTALLED AS REQUIRED BY THE MANUFACTURER, OR AS DIRECTED BY THE PLANS.

F. NAILS PROJECTING BEYOND THE LAST WOOD MEMBER SHALL BE CLINCHED, WHEREVER POSSIBLE.

G. NOTES IN THE "PLANS" PACKAGE OF THE CONSTRUCTION DOCUMENTS SUPERSEDE SIZES & SPACINGS OF NAILS CONTAINED HEREIN.

JOINT REINFORCEMENT SCHEDULE:

APPLICATION	SIMPSON	SEMCO	KANT-SAG
POST BASE TO PIER	ABU66	ABP66	-
POST BASE TO PIER *	CB66	CB66	CB66
RIM JOIST ANCHOR	PAI8	PAI8	PAII8
PORCH JOIST HANGER	LUS26	UHPKG26	JL26
PORCH GIRDER HANGER	LUS28-2	UHPKG26D	HD28-2
GENERAL FRAMING ANCHOR	A35	FAPI8	MPAI
FRAME WALL TO RIM	H6	HCPFA	-
FRAME WALL TO SILL ON CONC.	SPI	SPT22	SPT22
FRAME WALL TO PLATE	SP4	TPP4	KLSTI8
TRUSS/LUMBER TO SEAT	MTSI2	RTPGABI2T	KHSTI2
TRUSS/LUMBER TO PLATE	HT	HCPTA	RT20
PORCH BEAM TO POST	I2I2T	-	T
PORCH BEAM TO POST *	I2I2HT	-	-
ANCHOR BOLTS, 1/2"ϕ			
2X TO CONC.	-	ABJBL6C	-
6X LOG TO CONC.	-	ABJBLI2C	-
1/2 6X LOG TO CONC.	-	ABJBL8C	-
8X LOG TO CONC.	-	ABJBLI4C	-
1/2 8X LOG TO CONC.	-	ABJBLI0C	-
2" SQ. WASHER	-	ABJW2	-
3" SQ. WASHER	-	ABPW3	-
JOINT SPECIALTIES per CLEVELAND STEEL:			
2 1/2"ϕ TIMBER RING	TR2.5		
4"ϕ TIMBER RING	TR4		
BOLT GRADES:			
GENERAL/UNSPECIFIED	GRADE 2		
SPECIFIED/HIGH WIND	ASTM A307 or SAE GRADE 1		

NOTE!

1. ALL REQUIRED FASTENERS SHALL BE EMPLOYED INCLUDING NAILS, BOLTS OR BOTH.
2. MANUFACTURERS LISTED ARE CONSIDERED EQUAL FOR THE PRODUCTS SPECIFIED & MAY BE USED INTERCHANGEABLY.

* INDICATES HIGH WIND REQUIREMENTS (100 MPH OR HIGHER)

SHEET: D.5
REVISION:
DRAWN: NPG
DATE: 09NOV96
COMM: SRLH

Custom Log Home Standard Details:

STRUCTURAL NOTES

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