

ABBREVIATION LEGEND

Table with 2 columns: Abbreviation and Full Name. Includes items like AB ANCHOR BOLT, ACI AMERICAN CONCRETE INSTITUTE, AFM ABOVE FINISHED FLOOR, etc.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE STRUCTURAL COMPONENTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK.
2. THE STRUCTURE SHALL BE TEMPORARILY BRACED UNTIL ALL STEEL BRACING, FLOOR AND ROOF DECKS, AND CONCRETE WALLS HAVE BEEN INSTALLED AND ALL CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.

SHOP DRAWINGS AND DEFERRED SUBMITTALS

- 1. AT A MINIMUM SHOP DRAWINGS SHALL INCLUDE:
a. CLEARLY DEFINED DESIGN LOADS (IF REQUIRED)
b. LAYOUT PLAN
c. SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT STATE (IF NECESSARY)
2. PRIOR TO SHOP DRAWING SUBMITTAL, THE CONTRACTOR SHALL:
a. APPROVE, STAMP, AND SIGN SUBMITTAL
b. REVIEW EACH SUBMISSION FOR CONFORMANCE TO THE MEANS, METHODS, SEQUENCES, TECHNIQUES, OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS, ALL OF WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CONCRETE NOTES

- 1. REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A 615, BARS SHALL BE GRADE 60.
2. REFER TO ACI 318 FOR CONCRETE COVER, ACI 315 FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 FOR STANDARD PRACTICES FOR MIXING AND PLACING CONCRETE.
3. LEAN CONCRETE - MIN 1/2 TON SACKS PORTLAND CEMENT PER CUBIC YARD.

FOUNDATION AND SLAB ON GRADE NOTES

- 1. REFERENCE THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY PALMERTON & PARRISH, INC. DATED SEPTEMBER 14, 2010 FOR ADDITIONAL, SITE DEVELOPMENT REQUIREMENTS NOT INCLUDED IN THESE NOTES.
2. FOOTING DESIGNERS ARE BASED ON AN ASSUMED STABLE, NON-EXPANSIVE SOIL BEARING PRESSURE OF 2,500 PSF FOR CONTINUOUS AND 3,000 PSF FOR INDIVIDUAL FOOTINGS. EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 30" BELOW ADJACENT FINISHED GRADE.

FOUNDATION SUBSURFACE PREPARATION

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THE SUBSURFACE PREPARATION REQUIREMENTS ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 10 FEET BEYOND THE BUILDING AND APPURTENANCES. APPURTENANCES ARE THOSE ITEMS ATTACHED TO THE BUILDING PROPER AND TYPICALLY INCLUDE BUT NOT LIMITED TO, THE BUILDING SIDEWALKS, PORCHES, RAMPS, STAIRS, ETC. THE SUB BASE AND THE VAPOR BARRIER, WHERE REQUIRED, DO NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING AND THE APPURTENANCES.

THE FINAL SUBGRADE ELEVATION SHALL BE ESTABLISHED AT 8 INCHES BELOW FINISHED FLOOR ELEVATION TO ALLOW FOR A 4-INCH SLAB AND 4 INCHES OF SUB BASE. THE SUB BASE SHALL BE OF COMPACTED OPEN GRADED GRANULAR MATERIALS (KDOT #610 CRUSHED STONE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS AND BELOW GRADE STRUCTURES SHALL BE REMOVED FROM THE CONSTRUCTION AREA. REMOVE TREES, SURFACE VEGETATION, SURFICIAL DEBRIS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE CONSTRUCTION AREA. PROTECT/ EXPOSED SUBGRADE. REMOVE AND REPLACE UNSUITABLE AREAS WITH SUITABLE MATERIAL.

FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AT A MOISTURE CONTENT WITHIN 2 PERCENT BELOW TO 2 PERCENT ABOVE THE OPTIMUM. FILL SHALL BE FREE OF TOPSOIL, ORGANIC AND OTHER DELETERIOUS MATERIALS, AND SHALL MEET THE FOLLOWING REQUIREMENTS.

NO ROCKS GREATER THAN 6 INCHES IN DIAMETER SHALL BE ALLOWED IN THE FILL.

THE FILL MATERIAL SHALL HAVE A LIQUID LIMIT NOT EXCEEDING 50 PERCENT, A PLASTICITY INDEX NOT EXCEEDING 25 PERCENT, AND A MAXIMUM DRY DENSITY OF AT LEAST 100 PCF, BASED ON THE STANDARD PROCTOR TEST (ASTM D698)

ANY GROUNDWATER SEEPAGE ENCOUNTERED DURING SITE GRADING MUST BE CONTROLLED USING A SUITABLE, PERMANENT TRENCH DRAIN, FLOWING TO A SUITABLE OUTFALL AREA OR STORM DRAIN.

THE SUBGRADE MUST BE MOISTURE CONDITIONED AS NECESSARY TO ACHIEVE A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698) AT THE TIME THE FLOOR SLABS ARE CONSTRUCTED.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS, AND CONTINUOUS FOOTINGS AT THE WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. INFORMATION COVERED IN THIS PREPARATION GOVERNS OVER THE CONTRACT SPECIFICATIONS. REFER TO THE SITE WORK SPECIFICATIONS AND THE GEOTECHNICAL REPORT BY PALMERTON & PARRISH, INC. DATED SEPTEMBER 14, 2010 FOR INFORMATION NOT COVERED IN THIS PREPARATION. THE GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT CONSIDERED AS A DESIGN SPECIFICATION.

STRUCTURAL DESIGN CRITERIA

Table with 2 columns: Design Code and Value. Includes items like 1. DESIGN CODE 19C 2006, 2. DEAD LOADS a. ROOF DEAD LOAD 55 PSF, b. FLOOR DEAD LOAD 14 PSF, etc.

STEEL DECK NOTES

- 1. REINFORCEMENT FOR TYPICAL SLABS ON METAL DECK SHALL BE 4X4 W2.9XW2.9 WWF UNO, MAINTAIN 1 1/2" COVER MINIMUM FROM TOP OF SLAB AT ALL LOCATIONS. PROVIDE 15# BOLSTERS OR OTHER APPROVED MEANS TO PROPERLY LOCATE REINFORCING.
2. WHERE STEEL DECK IS PART OF A RATED ASSEMBLY SUPPLY ALL DECK AND COMPONENTS WHICH COMPLY WITH REQUIREMENTS OF UNDERWRITERS LABORATORY FOR EACH TYPE OF FRESH CONCRETE TO BE PLACED ON THE DECK.
3. LAYOUT DECK TO HAVE A MINIMUM OF THREE CONTINUOUS SPANS WHERE POSSIBLE. ATTACH TO JOIST AND BEAMS WITH F 8# PUDDLE BOLTS @ 6" O.C. AT PERIMETER OF BUILDING, AT END LAP SPLICES AND AROUND ALL OPENINGS; AND AT 36" PATTERN AT INTERMEDIATE SUPPORTS.

STEEL JOIST NOTES

- 1. ALL STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR OPEN STEEL JOISTS K-SERIES (LATEST EDITION).
2. ALL STEEL JOISTS SHALL BE DESIGNED BY THE JOIST MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ALL STEEL JOISTS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER'S ENGINEER, WITH THE ENGINEER SEAL FOR THE STATE WHERE THE STRUCTURE IS LOCATED.
3. EXCEPT WHERE ADDITIONAL AND/OR SPECIFIC DESIGN LOADS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, STEEL JOISTS SHALL BE DESIGNED AS SIMPLE SUPPORTED UNIFORMLY LOADED TRUSSES WITH THE TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFORM DESIGN LOAD SHALL BE THE TOTAL SAFE UNIFORMLY DISTRIBUTED LOAD AS SHOWN ON SJI STANDARD LOAD TABLES.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS:
a. W-SHAPES ASTM A992 GRADE 50
b. ANGLES AND C-SHAPES ASTM A36
c. PLATES AND BARS ASTM A36
d. HSS AND TS ASTM A500 GRADE B
2. FOR BOLTED CONNECTIONS OF BEAMS AND COLUMNS USE A325 OR A490 BOLTS. SIZE AS REQUIRED. ALL BOLTS FOR SLP CRITICAL CONNECTIONS SHALL BE LOAD INDICATOR BOLTS OR SHALL BE EQUIPPED WITH LOAD INDICATOR WASHERS WHICH PROVIDE AN EASY MEANS OF VISUALIZING PROPER BOLT TENSION.
3. PERFORM ALL WELDING WITH E70 XX ELECTRODES, UNO OR UNLESS REQUIRED FOR SPECIAL CONNECTIONS. WELDING OF STRUCTURAL MEMBERS SHALL BE PERFORMED BY CERTIFIED WELDERS AND WELDING SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" OF THE AWS.
4. ALL EXPOSED STEEL SHALL BE GALVANIZED UNO, INCLUDING MASONRY SUPPORT LINTELS.

PRE-ENGINEERED WOOD TRUSS NOTES

- 1. ALL TRUSSES CALLED OUT IN THE DRAWINGS SHALL BE PRE-ENGINEERED, MANUFACTURED TRUSSES. TRUSSES SHALL CONFORM TO THE SPACING, DIMENSIONS AND CONFIGURATIONS CALLED OUT IN THESE NOTES AND ON THE PLANS AND SHALL BE DESIGNED FOR THE SPECIFIED LOADINGS.
2. MAXIMUM LIVE LOAD DEFLECTION SHALL NOT EXCEED L/360. MAXIMUM TOTAL LOAD DEFLECTION SHALL NOT EXCEED L/240 OR 1/2" WHICHEVER IS LESS.
3. TRUSSES SHALL BE FABRICATED WITH MINIMUM 20 GAGE TRUSS PLATES HAVING A MINIMUM PENETRATION OF 0.37".
4. CEILINGS WERE NOT DESIGNED TO BRACE TRUSS BOTTOM CHORDS. TRUSS MANUFACTURER SHALL DESIGN PERMANENT BOTTOM CHORD BRIDGING TO BE SUPPLIED BY THE CONTRACTOR.

GENERAL WOOD FRAMING NOTES

- 1. WOOD FRAMING INCLUDING MISC BEAM, LINTELS, HEADERS, ETC SHALL BE #2 GRADE OR BETTER SOUTHERN PINE.
2. WOOD FRAMING FOR TIMBER COLUMNS SHALL BE DOUGLAS FIR #1 OR BETTER.
3. ROOF FRAMING CALLED OUT ON THE PLANS TO BE STICK FRAMED SHALL BE SIZED FOR THE LOADS AND SPANS INDICATED ON THE PLANS IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.
4. LIGHT FRAMING SUCH AS PLATES, SILLS, CRIPPLES, BLOCKING AND ROOF FRAMING NOT OTHERWISE SPECIFIED SHALL BE #3 GRADE DOUGLAS-FIR-LARCH OR BETTER.
5. STUDS SHALL BE #2 GRADE DOUGLAS-FIR-LARCH OR BETTER.
6. ALL WOOD FRAMING SHALL BE FREE OF LARGE KNOTS, WARPS, SPLITS, OR DEFECTS. WHERE CALLED FOR ON THE PLANS TO USE FRAMING ANCHORS USE GALVANIZED STEEL FRAMING ANCHORS EQUAL TO SIMPSON.

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Professional Engineer Seal for Spencer N. Jones, Engineer, Missouri, No. E-28676. Issued 08/2010, expires 08/2013.

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