

-THE FOLLOWING SPECIFICATIONS SHALL CONFORM TO THE IBC 2007 BUILDING CODE AND ANY OTHER CITY ORDINANCES WHICH ARE IN FORCE AT THE TIME OF THIS PROJECT. -CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO STARTING ANY FIELD WORK.

-ANY DEVIATION CALLED BY THE FIELD CONDITIONS, OR ANY CONDITIONS DIFFERENT FROM THOSE INDICATED ON PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. ANY DISCREPANCY NOT REPORTED TO THE ENGINEER, WILL ABSOLVE THE ENGINEER FROM ANY LIABILITY.

-TYPICAL DETAILS SHALL APPLY WHERE NO SPECIFIC DETAILS OR SECTIONS ARE PROVIDED. -DIMENSIONS SHOWN ON PLANS OR DETAILS TAKE PRECEDENCE OVER SCALES SHOWN.

-THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF ALL WORK IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.

-THE CONTRACTOR SHALL PROVIDE ADEQUATE FLASHING AND WATERPROOFING TO PREVENT ANY ROOF AND/OR BALCONY RAIN WATER

-IF TRUSSES ARE TO BE USED IN LIEU OF CONVENTIONAL FRAMING, SHOP WINGS AND CALCULATIONS SHALL BE PROVIDED TO THE CITY FOR APPROVAL BEFORE FABRICATION.

-IF AN ALTERNATE SHEAR WALL TIEDOWN SYSTEM IS TO BE USED IN LIEU OF SIMPSON HOLDOWNS, SHOP DRAWINGS AND CALCULATIONS SHALL BE PROVIDED TO THE CITY FOR APPROVAL BEFORE FABRICATION. STRUCTURAL STEEL

-STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. (A-36) SPECIFICATIONS AND TO THE A.I.S.C. SPECIFICATIONS FOR FABRICATION AND ERECTION. PLANS. -ALL BOLTS SHALL CONFORM TO A.S.T.M. (A—307) FOR UNFINISHED BOLTS. -ALL BOLT HOLES IN STEEL MEMBERS SHALL BE TRUE, BURNING OF HOLES FOR CONNECTIONS WILL NOT BE PERMITTED.

-PROVIDE FULL BEARING ON UNTHREADED PORTION OF BOLT SHANK FOR ALL STEEL CONNECTIONS. -PROVIDE LEVELING NUTS FOR ALL BOLTS AT BEAM SEATS AND COLUMN

-ALL WELDING SHALL BE AS INDICATED ON THE DETAILS AND PERFORMED IN A QUALIFIED SHOP OR FIELD, BY AN AUTHORIZED WELDER. FIELD WELDING, OTHER THAN MISCELLANEOUS TACK WELDING, IS NOT PERMITTED, UNLESS NOTED OTHERWISE IN THE DETAILS. THE FABRICATION SHOP SHALL BE "REGISTERED & APPROVED BY THE CITY

-WOOD MEMBERS LESS THAN 5" IN WIDTH SHALL BE DOUGLAS FIR NO. 2 AND 5" OR WIDER SHALL BE DOUGLAS FIR NO.1, UNLESS NOTED OTHERWISE ON PLANS.

-UNLESS NOTED OTHERWISE ON PLANS, ALL NAILING SHALL BE PER INTERNATIONAL BUILDING CODE, TABLE 2304.9.1 -ALL CONNECTING HARDWARE SHALL BE SIMPSON COMPANY TYPE OR EQUAL, AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE ON

-GLUED LAMINATED TIMBER BEAMS SHALL HAVE A MINIMUM BENDING STRESS OF 2400 psi. PROVIDE STANDARD CAMBER UNLESS NOTED OTHERWISE ON PLANS.

-ROOF PLYWOOD SHEATHING SHALL BE MINIMUM 1/2" APA RATED CDX WITH EXTERIOR GLUE, GROUP 2. EXPOSED SHEATHING AT ROOF OVERHANG SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS. -WALL PLYWOOD SHEATHING, IF REQUIRED, SHALL BE MINIMUM 3/8" APA RATED CDX WITH EXTERIOR GLUE, GROUP 2. -FLOOR PLYWOOD SHEATHING SHALL BE T&G INT-APA WITH EXTERIOR GLUE, GROUP 2. SEE PLANS FOR SIZE.

-BEARING AND NONBEARING WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT INTERSECTIONS. PLATE JOINTS SHALL BE STAGGERED 4'-0" MINIMUM AS INDICATED ON THE STRUCTURAL DETAILS. -UNLESS NOTED OTHERWISE ON PLANS, WALLS SHALL BE OF 2x4 STUDS (STUD GRADE OR GREATER) SPACED AT 16" ON CENTER.

-ALL HEADERS ARE AS NOTED ON PLANS. -ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR OR REDWOOD. EXCEPTION: POST BEARING ON PIERS MAY BE DOUGLAS FIR NO. 1 PROVIDED THAT A PROPER BASE CAP AND MIN. 6" ABOVE SOIL ARE PROVIDED.

-HOLES FOR BOLTS SHALL BE DRILLED WITH A BIT 1/16" LARGER THAN THE NOMINAL BOLT HOLE DIAMETER. FLAT WASHERS SHALL BE PROVIDED AT ALL HEADS AND NUTS WHICH WOULD OTHERWISE BARE CONDITION, AND RETIGHTENED UPON JOB COMPLETION.

-2x SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS -CONCRETE FOR SLABS ON GROUND, BEAM FOOTINGS, OR PIERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS, UNLESS NOTED OTHERWISE ON PLANS.

-MAXIMUM AGGREGATE SIZE SHALL BE 3/4" AND A MAXIMUM SLUMP -ANCHOR BOLTS, HOLDOWN BOLTS, DOWELS, AND OTHER REQUIRED INSERTS, SHALL BE POSITIONED AND FIRMLY SECURED IN PLACE BEFORE CONCRETE IS POURED.

-CONTRACTOR SHALL TAKE ALL THE NECESSARY MEASURES TO PROVIDE A PROPER COMPACTION OF THE CONCRETE. -THE EXCAVATED BOTTOM OF ALL FOOTINGS SHALL EXTEND TO ELEVATIONS SHOWN ON THE DETAILS, AND THE FOOTINGS SHALL BE POURED IN NEAT EXCAVATIONS, WITHOUT SIDE FORMS AS POSSIBLE.

REINFORCING STEEL

-REINFORCING STEEL SHALL BE DEFORMED BARS, CONFORMING TO ASTM A615-40 REQUIREMENTS AND WELDED WIRE MESH PER ASTM SPECIFICATION A-185.

-BARS NO. 4 AND SMALLER SHALL BE OF GRADE 40, AND BARS NO. 5 AND GREATER SHALL BE OF GRADE 60. LAP BARS 40 Floor Sheathing

e.n. spacing at:
boundary rim joist, thickness

Nail & type

8 d Common

96 o.c.

910 o.e.

PARS NO. 4 AND SMALLER SHALL BE OF GRADE 40, AND BAI NO. 5 AND GREATER SHALL BE OF GRADE 60. LAP BARS 40 DIAMETERS AT SPLICES.

DIAMETERS AT SPLICES.

-ALL REINFORCING BARS SHALL BE CLEAN OF ANY RUST OR

FOREICN MATERIAL

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c) 1" FOR SLABS POURED AGAINST FORMS

-SEE PLAN FOR QUANTITY AND LOCATION OF ANCHOR BOLTS, LOCATE BOLTS WITHIN 12" FROM CORNERS AND BUTT JOINTS. CONCRETE MASONRY

- ALL MASONRY WORK SHALL BE REINFORCED GROUTED MASONRY AND CONFORM TO THE 1997 UNIFORM BUILDING CODE AND SHALL BE 8x8x16 LIGHTWEIGHT UNITS WITH MAXIMUM LINEAR SHRINKAGE OF 0.06%, PER A.S.T.M. (C-90-52), GRADE A. NO CONTINUOUS INSPECTION REQUIRED. -MOTAR MIX SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND. GROUT MIX SHALL BE COMPOS OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND AND NOT LESS THAN TWO PARTS PEA GRAVEL.

-WALLS TO BE GROUTED IN 4' MAXIMUM LIFTS, UNLESS HIGH LIFT GROUT PROCEDURES (WITH BLOCKOUTS) ARE USED. ALL REINFORCING SHALL HAVE A MINIMUM COVERAGE OF 1/2" OF GROUT. ALL BOLTS SHALL HAVE A MINIMUM COVERAGE OF 1" OF GROUT. -NO PIPES OR DUCTS SHALL BE PLACED IN MASONRY WALLS UNLESS SPECIFICALLY NOTED OR DETAILED.

-DOWELS IN CONCRETE FOR MASONRY WALLS SHALL BE 2-#4 OR AS -ALL RETAINING BLOCK WALLS SHALL BE PROVIDED WITH AN APPROVED MOISTURE BARRIER ON THE SOIL SIDE. SEE ARCHITECT'S DRAWINGS.

-CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH ALL OF THE SOIL INVESTIGATION REPORT REQUIREMENTS AND RECOMMENDATIONS, AND TAKE ALL THE NECESSARY MEASURES FOR A CORRECT AND COMPLETE IMPLEMENTATION OF SUCH REQUIREMENTS IN THE FIELD.



POPA ENGINEERS

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JOB TITLE

REVISIONS:

THESE STRUCTURAL DRAWINGS WERE PRODUCED BY POPA ENGINEERS. THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED, AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. FURTHERMORE, TITLE TO T PLANS AND SPECIFICATIONS REMAINS WITH POPA ENGINEERS INC. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS CONSTITUTE PROOF OF ACCEPTANCE OF ALL RESTRICTIONS.

PROJECT #: 09057 DATE: October, 2009 SCALE: 1/4"=1'-0" DRAWN BY: jp PROJECT MANAGER: John Popa ENGINEERED BY: jp REVIEWED BY: John Popa Structural

Details

