34. INTERIOR PANELING

COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.

NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS

EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE, FOR NAILING

OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS,

REFER TO SECTION 2325.1. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.

COMMON OR DEFORMED SHANK.

CORROSION—RESISTANT SIDING NAIL.

CORROSION—RESISTANT SIDING NAIL.

FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS.

AT INTERMEDIATE SUPPORTS.

3. CORROSION-RESISTANT RODFING NAILS WITH 7/16-INCH-DIAMETER HEAD AND 1 1/2-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 3/4-INCH FOR 25/35-INCH SHEATHING.

1. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH CROWN AND 1 1/8-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32-INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

CASING OR FINISH NAILS SPACED 6 IN'S ON PANEL EDGES, 12 IN AT INTERMEDIATE SUPPORTS

1. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMIDIATE SUPPORTS. 2. FOR ROOF SHEATHING, 80 MAILS MIN, REQUIRED FOR WOOD STRUCTURAL PANELS.

12. FOR ROUF SHEATHING, 80 MAILS MIN. REQUIRED FOR WOOD STROCTURAL PARELS.

13. STAPLES SHALL HAVE A MINIMUM CROWN WOTH OF 7/16 INCH.

14. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED AT 4" D.C. AT EDGES,

8d AT INTERMEDIATE SUPPORTS.

15. FASTENERS SPACED AT 4" O.C. EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND
WALL SHEATHING AND 3" O.C. AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATH.

16. FASTENERS SPACED 4 " O.C. AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

ABBREVIATIONS

AB	ANCHOR BOLT	FF	FINISHED FLOOR		PERPENDICULAR
ABV	ABOVE	FIN	FINISH (ED)	PCF	POUNDS PER CUBIC FEET
ADJ	ADJACENT	FLG		PL	PLATE
ALT	ALTERNATE	FLR	FLOOR	PLY	PLYW000
AFF	ABOVE FINISHED FLOOR	FN	FIELD NAILING	PSF	POUNDS PER SQUARE FEET
APPROX	APPROXIMATE (LY)	FND	FOUNDATION	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECTURAL		FRAME (ING)	PT	PRESSURE TREATED
0	TA	FT	FEET	P/T	POST-TENSIONED
BLDG	BUILDING	FTG	FOOTING	QTY	QUANTITY
BLK	BLOCKING	GA	GAUGE	REF	REFERENCE
BM	BEAM	GALV	GALVANIZE (D)	REINF	REINFORCEMENT
BN	BOUNDARY NAILING	GB	GRADE BEAM	REQ'D	REQUIRED
BRG	BEARING	GLB		RJ	ROOF JOIST
BTM (8)	BOTTOM	HD.	HOLD DOWN	RO	ROUGH OPENING
BTWN	BETWEEN	HDR	GEWEERAMINATED BEAM	RR	ROOF RAFTER
C	CAMBER (ED)	HGR		SCH	SCHEDULE
CANT	CANTILEVER	HORZ (F	i) HORIZONTAL	SW	SHEARWALL
CIP	CAST-IN-PLACE		HEIGHT	SHT	SHEET
CL	CENTERLINE	IN (")		SIM	SIMILAR
CLG	CEILING	INT	INTERIOR	SIMP	SIMPSON
CLR	CLEAR	JST	JOIST	SKWD	SKEW(ED)
COL	COLUMN	K	KIPS (1000)	SPEC	SPECIFICATIONS
CONC	CONCRETE	KSI.	KIPS PER SQUARE INCH	50	SQUARE
CONN	CONNECTION	L	ANGLE	SS	SELECT STRUCTURAL
CONT	CONTINUOUS	LB	LAG BOLT	STD	STANDARD
CTR	CENTER (ED)	Lb (#)	POUND (S)	STOR	STAGGER(ED)
d	PENNY (NAILS)	LOGR	LEDGER	STRUCT	STRUCTURAL
DBL	DOUBLE	LG	LONG (ITUDINAL)	T&B	TOP AND BOTTOM
DEPT	DEPARTMENT	LTWT	LIGHT WEIGHT	T&G	TONGUE AND GROOVE
DF	DOUGLAS FIR	MAS	MASONRY	THK	THICK
DIA	DIAMETER		MATERIAL	THRD	THREAD(ED)
DIAG	DIAGONAL	MAX	MAXIMUM	TN	TOE NAIL
DIAPH	DIAPHRAGM	MB	MACHINE BOLT	TOF	TOP OF FOOTING
DIM	DIMENSION		MECHANICAL	TOL	TOP OF LEDGER
DN	DÓWN	MEZZ	MEZZANINE	TOW	TOP OF WALL
DO	DITTO (REPEAT)	ME	MOMENT FRAME	TOP	TOP OF PARAPET
DP	DEEP (DEPTH)	MFR	MANUFACTURER	TS	TUBE STEEL
DWG	DRAWING	MIN	MINIMUM	TYP	TYPICAL
EA	EACH	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	MTL	METAL	VERT (V)	VERTICAL
	ELEVATION	(N)	NEW	VIF.	VERIFY IN FIELD
	EMBED (MENT)		NUMBER	W	STEEL WIDE FLANGE
EN	EDGE NAILING	NTS (#)	NOT TO SCALE	W/	WITH
EW	EACH WAY	OC.	BN CENTER	WD.	W000
EXSTG (E)EXISTING		OWJ	OPEN WEB JOISTS	WT	WEIGHT
EXT	EXTERIOR	P/C	PRECAST CONCRETE	WWF	WELDED WIRE FABRIC

STRUCTURAL WOOD

1. SAWN LUMBER SHALL BE DOUGLAS FIR- LARCH CONFORMING TO THE 2006 IBC STANDARD 23-1 AND ANSI/NFoPA NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (AND SUPPLEMENT) REVISED 2005. AND SHALL BE GRADE MARKED BY

2. SAWN STRUCTURAL FRAMING MEMBERS SHALL BE AS FOLLOWS (U.N.O): MEMBERS

2x WALL STUDS @ 16" 2x FLOOR JOISTS & ROOF RAFTERS POSTS (4x, 6x, 8x)

4. ALL SILLS PLATES BEARING ON CONCRETE OR MASONRY SHALL BE PREASSURE TREATED W/ ANCHOR BOLTS PER SHEARWALL SCHEDULE. ELSEWHERE, INSTALL $5/8^\circ$ $\emptyset \times 10^\circ$ L-BOLTS PLACED WITHIN 12" MAX. (4-1/2" MIN.) FROM EACH END OR SPLICE, WITH 60" MAX. SPACING, MIN. 2 ANCHOR BOLTS PER EACH PANEL.

5. SILL PLATES OF INTERIOR, NON-BEARING, NON-SHEAR WALLS MAY BE FASTENED TO A CONCRETE SLAB USING HILTI LOW VELOCITY POWDER-ACTUATED FASTENERS (ICC #-1663). CONCRETE SLAB IS TO BE NORMAL WEIGHT CONCRETE AND CURED AT LEAST 7 DAYS. PLACE FASTENERS 6" FROM ENDS OF SILL AND AT 36" (MAX.) SPACING BETWEEN.

6. ORIENTED STRAND BOARD AND PLYWOOD SHEATHING SHALL CONFORM TO: U.S. PRODUCT STANDARDS PSI-95 OR PS2-92, APA PERFORMANCE STANDARD PRP 108, AND UBC STANDARD 23-2. U.N.O., THE MINIMUM GRADES AND SPAN INDEXES SHALL BE

MIN. GRADE SPAN RATING APA RATED SHEATHING, EXP. I APA-RATED STURDI-FLOOR T&G BOOF SHEATHING PER SHEARWALL SCHEDULE, MIN. APA RATED SHEATHING, EXP. I WALL SHEATHING (N/A)

7. GLUED LAMINATED TIMBERS SHALL BE FABRICATED IN ACCORDANCE WITH ANSI/AITC A190.1-1992 "STRUCTURAL GLUED LAMINATED TIMBER", AITC 117 OR APA-EWS 117, AND ASTM D3737-89a. EXTERIOR GLUE TO BE USED WITH INTENDED DRY USE CONDITION PER 2005 COMBINATIONS AND USES SHALL BE AS FOLLOWS:

COMBINATION NO. 24F-V8 EWS 24F-V8 DF/DF CONTINUOUS & CANTILEVERS

8. GLUED LAMINATED TIMBERS SHALL BE MARKED WITH A QUALITY MARK. IF MARK IS NOT READABLE, A CERTIFICATE SHALL BE PROVIDED TO INDICATE CONFORMANCE WITH ANSI/AITC A190.1-1992. THE MAXIMUM MOISTURE CONTENT OF THE LAMINATIONS AT TIME OF MANUFACTURE SHALL NOT EXCEED 12 % FOR DRY CONDITIONS OF USE.

9. LVL PS. AND LSL ENGINEERED WOOD MEMBERS SHALL BE PER ILEVEL TRUS JOIST WEYERHAEUSER (ESR 1387); MICROLLAMS, PARALLAMS, AND TIMBERSTRAND
RESPECTIVELY. NOTE: VERSALA-LAM FROM BOISE CASCADE MAY BE USED AS AN ALTERNATE OPTION OF SAME GRADE OR BETTER (ESR-1040)

PARALLAM (PSL) 2.0 E. Fb=2.900 psi. Fv=290 psi 1.9 E, Fb=2,600 psi, Fv=285 psi MICROLLAM (LVL) TIMBERSTRAND (LSL RIM BOARD) 1.3 E, Fb=1,700 psi, Fv=400 psi

10. WOOD I-JOISTS SHALL BE IN COMPLIANCE WITH THE FOLLOWING STANDARDS 1-JOIST MANUF. STANDARDS BCI JOIST BI BOISE CASCADE ESR 1336

11. FRAMING ANCHORS, POST CAPS, COLUMN BASES, AND OTHER CONNECTORS SPECIFIED ON DRAWINGS SHALL BE AS MANUFACTURED BY 'SIMPSON STRONG-TIE" OR AN ENGINEER-APPROVED EQUAL. ALL CONNECTORS TO BE FULLY NAILED OR BOLTED AS

12. BARS AND PLATES SHALL CONFORM TO ASTM A36. BOLTS, UNLEADED BOLTS, WASHERS AND DRIFT BOLTS SHALL CONFORM TO ASTM A 307

13. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 563, GRADE A.

14. ALL BOLT HEADS (MACHINE AND LAG) AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS, U.N.O.

15, MACHINE BOLT (THRU-BOLT) HOLES IN WOOD SHALL BE DRILLED A MAXIMUM 1/32" LARGER THAN THE NOMINAL BOLT DIAMETER

16. LEAD HOLES FOR LAG SCREWS GREATER THAN 3/8" dig SHALL BE BORED AS FOLLOWS: $40\,\%$ - 70% of the shawn diameter and a length equal to at least the length of the threaded portion. Clearance holes for the shawk shall have the same diameter as the shawk, and the same depth of penetration as the length of UNTHREADED SHANK. LAG SOREWS SHALL BE INSERTED BY TURNING WITH A WRENCH. NOT BY DRIVING WITH A HAMMER

17. NAILING OF SAWN MEMBERS SHALL CONFORM TO THE OBC TABLE 2304.9.1, U.N.O. ON THE STRUCTURAL DETAILS.

18, NAILS HOLES SHALL BE PRE-DRILLED WHEN NECESSARY TO PREVENT SPLITTING,

19. CUSTOM STEEL HARDWARE CONNECTORS FOR WOOD OR GLUED LAMINATED TIMBER SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A 36. WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-2000.

20 HORIZONTAL DIAPHRACM NAILING SHALL CONFORM TO 2010 CRI STRUCTURAL PANEL SHEARWALLS SHALL CONFORM TO 2010 CBC NOMENCLATURE IS DEFINED AS FOLLOWS (PER DETAILS): BN = BOUNDARY NAILING AT DIAPHRAGM BOUNDARIES, AND AT EDGES OF OPENINGS

EN = EDGE NAILING, AT CONTINUOUS PANEL EDGE

FN = FIELD NAILING, AT INTERMEDIATE FRAMING MEMBERS

21. WHERE DIAPHRAGM BLOCKING IS SPECIFIED FOR ROOFS OR FLOORS, USE 2x4 FLAT BLOCKING WITH 'Z' CUPS, U.N.O.

22. HORIZONTAL SHEATHING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, AND THE FACE GRAIN (LONG DIRECTION) OF SHEATHING SHALL BE PERPENDICULAR TO SUPPORT MEMBERS.

23. SIMPLE SPAN WOOD MEMBERS, NOT SHOP CAMBERED, SHALL BE ERECTED WITH THE NATURAL CAMBER UP. FOR CANTILEVERED WOOD MEMBERS, CONSULT WITH PROJECT STRUCTURAL ENGINEER.

24 PROVIDE DOUBLE 2x STUDS TO SUPPORT ALL BEAMS, UNLESS POSTS ARE SPECIFIED

25. DOUBLE BLOCK UNDER ALL POSTS. DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS, UNLESS OTHERWISE SPECIFIED.

26. TOP PLATES OF ALL WOOD STUD WALLS SHALL BE 2-2x (SAME WIDTH AS STUDS), LA 48" (MIN.), WITH AT LEAST 12-166 NAILS AT EACH SIDE OF LAP AND NOT MORE THAN 6" BETWEEN NAILS (SEE PLANS IF STRAPS ARE REQUIRED).

27. NOTCHING OF BEAMS OR JOSTS SHALL BE PERMITTED ONLY PER NOS SECTION 3.2.3.2, DETAILED AND APPROVED BY THE ENGINEER. HOLES DRILLED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST.

28 MOISTURE CONTENT OF SAWN LUMBER AT TIME OF PLACEMENT SHALL NOT EXCEED 19%

STRUCTURAL STEEL AND WELDING

1. ALL STRUCTURAL STEEL SHALL CONFORM TO AND BE IDENTIFIED IN ACCORDANCE WITH 2007 CBC STANDARD 22-1. STEEL FABRICATOR TO BE LICENSED BY THE APPROPRIATE

 MATERIAL AND WORKMANSHIP FOR FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE "CODE OF STANDARD PRACTICE", PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

3. STRUCTURAL STEEL FOR THE FOLLOWING SHAPES INDICATED SHALL CONFORM TO THE FOLLOWING GRADES:

SHAPE ASTM / GRADE WIDE FLANGE (W) A 992 50-65 PLATES AND ES AND CHANNELS A 53 B

4. BOLTS OF THE TYPE AND USE INDICATED SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS (U.N.O.):

AS SPECIFIED A 307 GRADE A A 307 GRADE A MACHINE BOLTS AS SPECIFIED A 325 HIGH STRENGTH

5. NUTS SHALL CONFORM TO ASTM A 563-88g, HEX GRADE A.

L WELDING SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-OD, 'STRUCTURAL WELDING CODE -STEEL' OF THE AMERICAN WELDING SOCIETY. ELECTRODES SHALL BE TYPE E70-T6, UNLESS NOTED OTHERWISE BY PROJECT STRUCTURAL ENGINEER.

7. ALL WELDING OF STRUCTURAL STEEL SHAPES SHALL BE ELECTRIC-ARC PROCESS BY QUALIFIED AND CERTIFIED WELDERS, APPROVED BY THE GOVERNING AGENCY. CONTINUOUS DEPUTY INSPECTION REQUIRED FOR FIELD WELDING.

8. ALL WELDING OF REINFORCING STEEL SHALL CONFORM TO THE PROVISIONS OF AWS D1.4-DD, "STRUCTURAL WELDING CODE - REINFORCING STEEL".

STEEL MEMBERS TO BE GALVANIZED SHALL BE COATED IN ACCORDANCE WITH ASTM A 123 WITH A MINIMUM OF 2.5 OUNCES ZINC PER SQ. FT.

10. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW PRIOR

11. STEEL SHALL BE COATED WITH A SHOP-APPLIED PRIMER. FIELD PAINTING TO BE PROVIDED TO TOUCH UP ANY DAMAGED PAINT ON SHAPES, BOLTS, AND WELDS

IS PLUMBED. CONTRACTOR SHALL NOT LOAD COLUMN ANCHOR BOLTS BEFORE PLACEMENT OF NON-SHRINK CROLLT. NON-SHRINK CROLLT SHALL BE ICRO-APPROVED IND SHALL BE MIXED, PLACED AND CURED IN CONFORMANCE WITH MANUFACTURER'S

STRUCTURAL CONCRETE

1 THE MINIMUM 2B-DAY CYLINDER STRENGTH SHALL BE AS FOLLOWS, U.N.O.

CONCRETE ELEMENT SLAB ON GRADE 2500 PSI SPREAD FOOTINGS 2500 PSI CONT. FOOTINGS 2500 PSI

2. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150-94, TYPE I OR II.

AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33-94 AND SHALL BE AS DEFINED IN SECTION 1903.3. "A" AGGREGATES FOR LIGHT WEIGHT

SHALL HAVE A DENSITY RANGE OF 110 TO 115 POF.

4. ROMORGIRESHALR OBDIFSENT, TOUGSDAWAYSBE-USED WITHURAURALARISHOVANEIGHTTHENCRETE

5. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94-94 AND PER SECT. 1903.9 - MIXING & PLACING OF CONCRETE.

6. MINIMUM CONCRETE COVER (IN INCHES) FOR REINFORCING STEEL IN NONPRESTRESSED CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

__LOCATION_ A. CAST AGAINST AND PERMANENTLY MIN. COVER (IN.) EXPOSED TO EARTH B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1-1/2 #5 BARS, 5/B INCH WIRE, AND SMALLER C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: #14 AND #18 BARS 1-1/2 RIMARY REINFORCEMENT, STIRRUPS, TIES OR SPIRALS 1-1/2"

7. SLEEVES, PIPES AND CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTINGS, GRADE BEAMS, PILE CAPS OR TIE BEAMS UNLESS SHOWN IN APPROVED BY STRUCTURAL ENGINEER AND SHOWN IN STRUCTURAL DETAILS

8. ALL SLEEVES THROUGH BEAMS, GIRDERS AND FOUNDATION WALLS SHALL BE INSTALLED AND SECURED IN POSITION PRIOR TO PLACING CONCRETE. EXCEPT AS SHOWN ON STRUCTURAL DRAWINGS, SLEEVING SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

9. CONDUIT SHALL NOT BE PLACED IN ANY CONCRETE SLAB LESS THAN 3-1/2 " THICK IF CONDUIT IS PLACED IN CONCRETE SLAB, ITS OUTSIDE DIAMETER SHALL NOT BE GREATER THAN ONE THIRD OF THE SLAB THICKNESS.

10. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH (U.N.O.)

11. FRAMING CONTRACTOR TO VERIFY LOCATION OF HOLDOWNS PRIOR TO POURING OF CONCRETE FOUNDATIONS

STRUCTURAL GENERAL NOTES

- ALL CONSTRUCTION, INCLUDING MATERIAL AND WORKMANSHIP, SHALL CONFORM TO THE PROVISIONS OF THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), WITH THE COVERNING ACENCY AMENDMENTS AND STANDARDS REFERENCED THEREIN. WHEREVER BUILDING CODE IS REFERENCED IN THE FOLLOWING GENERAL NOTES OR OTHER NOTE SECTIONS, IT SHALL IMPLY THE IBC REFERENCED ABOVE. ALL PROJECTS LOCATED IN THE STATE OF CALIFORNIA SHALL CONFORM TO THE 2010 CALIFORNIA BUILDING CODE (CBC) AND REFER TO THE CBC IN LIEU OF THE AFOREMENTIONED IBC.
- 2. ALL ASTM STANDARDS LISTED HEREIN SHALL BE AS REFERENCED IN THE LATEST ISSUE OF THE ANNUAL BOOK OF STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
- 3. THE CONTRACTORS SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO STARTING WORK. THE ARCHITECT AND STRUCTURAL ENGINEER
- A. ALL OMISSIONS AND/OR CONTUCTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF DISCREPANCIES.

 BRAININGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER, RACHITECT, AND FIELD INSPECTOR. THE ARCHITECT OR STRUCTURAL ENGINEER, RACHITECT, AND FIELD INSPECTOR. THE ARCHITECT OR STRUCTURAL ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY INSPECTION OF THE ARCHITECT OR STRUCTURAL ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE CONFLICT OR OMISSION.
- 5. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND/OR STANDARD DETAILS SHOWN ON SHEET SD1. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.
- 6. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION
- 7. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THESE STRUCTURAL DRAWINGS.
- AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE
- 9. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, BLOCK-OUTS, etc. SHALL NOT BE PLACED IN SLABS, BEAMS, CIRDERS, COLUMNS, WALLS, FOUNDATIONS, etc., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED OF THESE STRUCTURAL DRAWINGS. IF ANY PIPES, DUCTS, CONDUIT, etc. ARE PLACED THAT ARE NOT SHOWN ON THESE STRUCTURAL DRAWINGS, THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED (SEE PARAGRAPH 4 ABOVE).
- 10. THE CONTRACTORS SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTORS SHALL DEFEND, INDEMNIFY, AND HOLD THE STRUCTURAL ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STRUCTURAL ENGINEER.
- 11. IF THE CONTRACTOR PROPOSES ANY SUBSTITUTION, NEW CALCULATIONS AND DETAILS MAY HAVE TO BE PREPARED. EXISTING DETAILS MAY HAVE TO BE ALTERED, AND NEW DRAWINGS MAY HAVE TO BE SUBMITTED TO THE BULLDING DEPT. THE CONTRACTOR SHALL PAY THE STRUCTURAL ENGINEER'S FEES TO ALTER THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO PROCESS THE REVISED PLANS REFLECTING ALI SUBSTITUTIONS THROUGH THE APPROPRIATE OFFICE OF ALL GOVERNING AGENCIES.

CONCRETE BLOCK MASONRY

- . MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C-90 CRADE N. W/ AN ULTIMATE COMPRESSIVE STRENGTH - fm = 1500 PSI.
- 2. MORTAR MIX SHALL BE ONE PART CEMENT, 3 PARTS SAND, 1/4 HYDRATED LIME OR LIME PUTTY BY VOLUME; WATER CONTENT SHALL BE THE MINIMUM REQUIRED FOR WORKING CONSISTENCY, MORTAR SHALL BE TYPE "S", UNLESS NOTED OTHERWISE.
- GROUT MIX SHALL BE ONE PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL BY VOLUME. THE 2B DAYS ULTIMATE STRENGTH OF THE GROUT SHALL BE 2000 PSI.
- 4. GROUT MIX SHALL BE SOLID GROUTED, UNLESS NOTED OTHERWISE ON PLANS.
- 5. CONTINUOUS DEPUTY INSPECTION IS NOT REQUIRED, UNLESS NOTED OTHERWISE.
- 6. FIRST COURSE OF BLOCKS ABOVE OPENINGS SHALL BE LINTEL/BOND BEAM LINITS. 7. MAXIMUM CROUT LIFT SHALL NOT EXCEED 4'-0' IN ONE DAY UNLESS PROPER
- 8. MASONRY SHALL BE CLEAN AND FREE OF ALL SUBSTANCES THAT MAY IMPAIR BOND
- 9. BOND BEAM TYPE UNITS SHALL BE USED FOR ALL HORIZONTAL REINFORCING STEEL.
- 10, VERTICAL COLD JOINTS ARE NOT ALLOWED UNLESS NOTED OTHERWISE ON THE
- 11. HORIZONTAL CONSTRUCTION JOINTS: WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, THE GROUT POUR MUST BE STOPPED A MINIMUM 1 1/2 " BELOW THE TOP OF THE

REINFORCING STEEL

- 1. DEFORMED BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF CRADE 40 - #3 AND SMALLER & CRADE 60 - #4 AND LARGER
- DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CBC SEC. 1907 & OTHER SECTIONS ACCORDING TO APPLICATION.
- VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS (SEE DETAILS FOR OTHER REQ'TS).
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT.

FAA NOTIFICATION NOTE

JUAN L. GARCIA, PE __DO HEREBY CERTIFY THAT THE STRUCTURE(S) OR IODIFICATION TO EXISTING STRUCTURE(S) SHOWN ON THESE PLANS DO NOT REQUIRE FEDERAL AVIATION ADMINISTRATION NOTIFICATION BECAUSE PER SECTION 77.15 (A) OF TITLE 14 OF THE CODE OF FEDERA REGULATIONS CFR PART 77, NOTIFICATION IS NOT REQUIRED.

BASIS OF STRUCTURAL DESIGN

ROOF DEAD LOAD = 15 PSF FLOOR DEAD LOAD = 15 PSF EXT. WALL WEIGHT = 16 PSF ROOF LIVE LOAD = 16 PSF FLOOR LIVE LOAD = 40 PSF INT. WALL WEIGHT = 16 PSF DECK DEAD LOAD = __25 DECK LIVE LOAD = 40 PSF

SEISMIC DESIGN: WIND DESIGN: ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE BASIC WIND SPEED 85 MPH. EXPOSURE: B TOPOGRAPHIC FACTOR, Kt = 1.0
HEIGTH ADJUSTMENT FACTOR,
IMPORTANCE FACTOR, IW = 1.0 \(\text{A} \) BUILDING OCCUPANCY CATEGORY - II = 1.0 ITE CLASS — D EISMIC DESIGN CATEGORY — D SEEMIC DESIGN CATEGORY — D SPECTRAL RESPONSE COEFFICIENT (SHORT PERIOD), $S_{00}=1.0$ SPECTRAL RESPONSE COEFFICIENT (1-SECOND PERIOD), $S_{01}=0.6$ RESPONCE MODIFICATION COEFFICIENT, R=6.5

SOILS & FOUNDATION DESIGN:

GEOTECHNICAL REPORT PREPARED BY: SOIL TESTERS | SOIL BEARING CAPACITY: 2,000 PSF | 1/3 inc. allowed for E loads | 1/4 inc. allowed for E lo

SIGN BASE SHEAR, V = C.W = 0.175W (Allowable Stress Design)

1. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE. TO LINE WITH ALL LOOSE MATERIAL REMOVED.

2. ALL SITE GRADING WORK SHALL BE DONE LINDER THE DIRECT OBSERVATION OF THE SOILS ENGINEER

PRIOR TO FOOTING EXCAVATION, SOIL ENGINEER TO REVIEW AND APPROVE IN WRITING THAT FOUNDATION PLANS AND FINAL GRADING PLANS COMPLY WITH THE SOILS REPORT.

TEST AND INSPECTIONS :

- CONTINUOUS INSPECTION (LLN.C.) SHALL BE PERFORMED BY QUALIFIED SPECIAL INSPECTORS RETAINED BY DWINER AND APPROVED BY THE BUILDING OFFICIAL TO ACT AS A SPECIAL INSPECTOR.
- 2. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.
- 4. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE LOCAL JURISDICTION'S BUILDING DEPARTMENT, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- 5. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE LOCAL JURISDICTION BUILDING DEPARTMENT, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS. 6. FABRICATOR MUST BE REGISTERED AND APPROVED BY THE THE LOCAL JURISDICTION'S BUILDING DEPARTMENT, FOR
- THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP
- FABRICATOR SHALL SUBMIT AN "APPLICATION TO PERFORM OFF-SITE FABRICATION" TO THE INSPECTOR SERVICES
 DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. 8. FABRICATOR SHALL SUBMIT A "CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION" TO THE INSPECTION SERVICES
- DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES. 9. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD,
- ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION. 10. WHERE MATERIALS OR ASSEMBLES ARE REQUIRED BY THE BUILDING CODE TO BE LABELED. SUCH MATERIALS AND ASSEMBLES SHALL BE LABELED BY AN ACCORDANCE
 WITH SECTION 1703. PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 1703.5.1 THROUGH 1705.5.3. SPECIAL INSPECTION TO BE PROVIDED BY: TESTING SERVICES & INSPECTION, INC. - (619) 234-9904

LIST OF SPECIAL INSPECTIONS REQUIRED:

THE SPECIAL INSPECTOR SHALL. IN ACCORDANCE WITH CBC CHAPTER 17, INSPECT THE FOLLOWING STRUCTURAL WORK:

1. STEEL COMPONENTS AND WELDING:

FABRICATION OF STEEL COLUMNS BASE PLATES PER PLAN

- * NOTES: a. WELDS DONE IN A FABRICATORS SHOP APPROVED BY INSPECTIONS SERVICES NEED NOT HAVE CONTINUOUS OR PERIODIC SPECIAL INSPECTION. AT COMPLETION, THE APPROVED FABRICATOR MUST SUBMIT A "CERTIFICATE OF COMPLIANCE" IN ACCORDANCE FORM TO INSPECTION SERVICES
 - b. SPECIAL INSPECTIONS IS REQUIRED FOR WLEDS DONE IN A SHOP OF A FABRICATOR WHICH IS NOT APPROVED BY INSPECTION SERVICES.

2. MASONRY (CONTINUOUS LEVEL 1 SPECIAL INSPECTION):

- CONTINUOUS INSPECTION OF PROPORTIONS OF SITE-PREPARED MORTAG

- CONTINUOUS INSPECTION OF CONSTRUCTION OF MORTAR JOINTS.
 CONTINUOUS REPECTION OF DICKTION OF RENFORCEMENT.
 CONTINUOUS RESPECTION OF JOINT AND LOCATION OF STRUCTURAL ELEMENTS.
 CONTINUOUS RESPECTION OF TYPE, SIZE AND LOCATION OF ANOHORS INCLUDING ANCHORAGE OF MASCHRY TO STRUCTURAL MEMBERS
 FRAMES OR OTHER CONSTRUCTURE.

- FRAMES OR OTHER CONSTRUCTION.

 CONTINUOUS INSPECTION OF SPECIFED SIZE, GRADE AND TYPE OF REINFORCEMENT.

 CONTINUOUS INSPECTION OF SPECIFED SIZE, GRADE AND TYPE OF REINFORCEMENT.

 CONTINUOUS INSPECTION OF PROPORTIONS OF SIT—PREPARED GROUT

 CONTINUOUS INSPECTION OF GROUP FACEMENT AND COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS.

 CONTINUOUS INSPECTION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.

 FRANCIC INSPECTION OF COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUMMITTALS.

OFFSITE FABRICATION

- SPECIAL INSPECTION IS REQUIRED FOR FABRICATION OF MEMBERS AND ASSEMBLIES DONE IN A SHOP OF A FABRICATION WHICH IS NOT APPROVED BY INSPECTION SERVICES. AN APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO AND APPROVED BY THE INSPECTION SERVICES.
- 2. SPECIAL INSPECTOR SHALL VERIFY THAT FABRICATOR MAINTAINS DETAILS FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROMIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR EABRICATOR'S SCOPE OF WORK.
- 3. FABRICATION OF MEMBERS AND ASSEMBLES DONE IN A FABRICATOR'S SHOP APPROVED BY INSPECTION SERVICES NEED NOT HAVE CONTINUOUS OR PERIODIC SPECIAL INSPECTION. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT THE "CERTIFICATE OF COMPLIANCE" FORM TO. INSPECTION SERVICES.
- FABRICATOR MUST BE REGISTERED AND APPROVED BY THE LOCAL BUILDING JURISDICTION, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE
- FABRICATOR SHALL SUBMIT AN "APPLICATION TO PERFORM OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
- FABRICATOR SHALL SUBMIT AN "APPLICATION TO PERFORM OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.





PROJECT:

Ш D AVENUE 92119 _ S **ASHWOOD** 5 Ш DIEGO, SAN

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PC CORRECTIONS: 7-18-13 PC CORRECTIONS: 8-1-13

13-048 PROJECT NUMBER:

06-12-13 DATE

STRUCTURAL NOTES

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