STRUCTURAL SPECIFICATIONS

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.6. EXCEPTION: GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA SECLOGICAL SURVEY (CGS). ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1808A.2 PER CBC SECTION 1808A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS <u>NOT LEVEL</u> WITHIN THE 1/2" ALLOWABLE TOLERANCE, THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, REGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKITLL

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL SE AS SHOWN ON DRAWINGS WHERE APPLICABLE, HIGH STRENGTH GROUT SHALL THE EMBLECO 865 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

- 1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. 2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF
- a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS,
- b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED
- o) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS ENAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
- 3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE

NATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT

- (UNLESS REQUIRED OTHERWISE PER ACI 318-08 TABLE 4.3.1). CONCRETE COMPRESSIVE STRENGTH FC= 3500 PSI
- PORTLAND CEMENT TYPE I IN STEMAL MELICIPAT 5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
- 6. THE ARCHITECT SHALL APPROVE LOCATION OF:
- a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(8) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
- b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(8) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
- r. Variance in concrete slab surface shall be no more than 1/16" in 10 feet
- 6. ALL CEMENT SHALL BE TYPE 1 OR 11 PER ASTM C-150. (UNLESS RECURED OTHERWISE PER CBC 1602A.2.3
- 9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 315-08 TABLE 4.2.1)
- 10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM BIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR
- ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- 2. REPER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS
- 3. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

<u>1704A.A.S. WAIVER OF BATCH PLAN INSPECTION.</u>

- A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:
- QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE
- LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
- BATCH TICKETB, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON, THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL REEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK. IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL BAIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
- AT THE END OF THE PROJECT, THE WEIGHMASTER SHALL FURNISH AN AFFIDAVIT TO THE ENFORCEMENT AGENCY CERTIFYING THAT ALL CONCRETE FURNISHED CONFORMS IN EVERY PARTICULAR TO PROPORTIONS ESTABLISH BY MIX DESIGNS.

RENFORCING STEEL:

- MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-815 GRADE 40. EXCEPT #8 ANCHOR REINFORCEMENT SHALL BE GRADE 60.
- 2. SPLICER: ALL SPLICES SHALL BE LAPPED A MINIMUM 45 45 BARB AND 30" 44 BARS UNLESS OTHERWISE
- 2. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORDEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE.
- I, MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH

LOCATION	AMOUNT
FORMED EARTH CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	2° H 3"
WALL-EXPOSED FACE #6 OR SMALLER	2"
#6 OR LARGER WALL-UNEXPOSED FACE	2" 3/4"

STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
- 2. TUBE COLUMNS SHALL CONFORM TO ASTM ASOD GRADE B
- 3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B.

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2010 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR. AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A38. CLIRRENT

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL, MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS. THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR design or light gauge steel structural members. Welding: Shall comply with the pertinent PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS. WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED.WITH ONE SHOP COAT OF MANUFACTURERS STANDARD CHASSIS PAINT OR

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL MOPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR COMMECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC

AND GAS WELDING IN BULDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.5. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-708. ALL SHOF WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E7DXX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE EDOXX FOR LIGHT GAUGE STEEL.

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERLIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

- FLOOR AND ROOF DECK WELDING.
- b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
 o) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS
- WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME. O SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

Material Shall be identified by Marking or Stamping the LD. Number on Structural Stigil COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS AS 1 OR 16.5 E700X ELECTRODES. HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP

ALL STEEL WORK, INCLUDING WISLD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ON COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE with artm a-1011/a grade as listed below, see Plan for Minimal yield. MATERIAL THICKNESS 0.120" OR LESS: ASTM A-1011/A GRADE 38 (UNO)

MATERIAL THICKNESS 0.185":	ASTM A-1011/A GRADE 40		
	DESIGNATION THICKNESS (INCHES)	MINIMUM DELIVERED THICKNESS (INCHES)	
•	0,018	0.017	
	0.080	0.029	
•	0.086	0.034	
	0.048	0.046.	
	0.060	0.057	
	0.076	0,071	
,	0.105	0.100	
	0.120	. 0.114	
	0.185	0.128	

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL" QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-SO7.

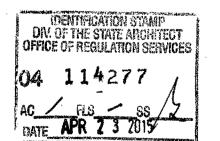
(b) CJP GROOVE WELD NOT

ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CAP GROOVE WELDS IN MATERIALS 8/16 In. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 In. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL SE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

<u>PRAMING:</u> ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL. BE OF THE FOLLOWING MINIMARIAN GRADES OR BETTER, PER WOLD RULES \$15. PLATES AND BLOCKING - STANDARD GRADE OR BETTER STUDS AND HEADER = DF #2 OR BETTER

american plywood association ps 1-85. Each sheet shall be grade marked by the american PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR SETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY

- PLYWOOD SUB FLOOR: 1 1/8" TAG UNBLOCKED PLYWOOD. PROVIDE SEAMLERS WOVEN POLYFLEX. BOTTOM BOARD FOR MOISTURE PROTECTION
- 2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" TBG OBS OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DBA
- 3. EXTERIOR WALL SIDING:
- STANDARD: 5/6" DURATIEMP OR 5/5" SMART PANEL
- i. Optional: 5/5" MDO III. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
- A EXTERIOR WALL SIDING ATTACHMENT: FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED galvanizied, mechanically deposited zinc-coated, standess sterl, silicon bronze or COPPER PER CBC SECTION 2004.9.1.1



- ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED WITH IN 8" OF GROUND LEVEL SHALL SIE "PRESSURE TREATED" BY AND "APPROVED PROCESS" OR SHALL SIE
- "FOUNDATION GRADE" MATERIAL (CBC SECTION 2004.11.2.2). 1. ALL ROUGH LUMBER SHALL BE DF #2 OR SETTER.
- 2. FASTEN WOOD BESIDES USING SCHEWS ALL POWER DRIVEN PASTENERS SHALL SE HILTI FASTENERS ICC# EBR-1883, AND RAMSET POWER DRIVEN FASTENERS (ICC# EBR-1796), OR SIMPSON POWER DRIVEN FASTENERS ICC #EBR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

CONTINUOUS INSPECTION:

INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

ASTM A-88, OPEN HEARTH OR ELECTRIC FURNACE ONLY.

BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

MATERIALS: ALL STRUCTURAL STEEL TESTING SHALL COMPLY WITH TITLE 24, SECTION 2212A.1. STEEL SHAPES: ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE RECLIREMENTS OF

STEEL TUBES: ALL STRUCTURAL TUBES SHALL CONFORM TO REQUIREMENTS OF ASTM A-500 GRADE 8 (N=40KSI) OR ASTM ASS, TYPICAL.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.M. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030

ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION.
TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS
TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF

SAME, CONNECTIONS SHALL BE ADECRATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE

 NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER. * ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO. STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL SE HILTI FASTENERS ICCIP EBR-1663, OR RAMBET POWER DRIVEN FASTENERS (ICC# EBR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC#EBR-2158, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DBA.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, EMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISPIGURED SHALL BE BATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMBH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

<u>DESCRIPTION OF WORK:</u> THIS SECTION INCLLIDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

ROOF FRAMES: PLYWOOD SHEATHING APA, PSI-05 RATED SHEATHING, CD EXPOSURE 1 P.I.I. = 48/24 (5 PLY) T&G EDGES

ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRASM: 9/4" TAG OSB OR APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1

SPAN RATING 48/24 MIN FASTEN TO SHEET METAL SUPPORTS W/ #10 x 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS OR 0.145 PACFAST PREFERRED FASTENERS (ICC ESP-2991) ISSUED SEPTEMBER 1 2010 AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD NALS. MIN. 3/6" EDGE DISTANCE FOR IB NOT ALLOWED ON PARAPET APPLICATIONS (PARAPET HEIGHT) HIGHER THAN 24". OF A STRUCTURAL FLOOR DIAPHRAGM:

1 1/8" PLYWOOD - STURD-LFLOOR

EXTERIOR - TONGUE AND GROOVE EDGES span rating: Af Fasten to sheet metal supports W/#10 - 24 x 1 5/4 Lg. Self-Drilling, self-tapping phillips flat-head ZINC COATED TEKS SCREWS OR 0.145 PACFAST PREFERRED FASTENERS (ICC ESR-2901) ISSUED SEPTEMBER 1 2010 AT 6" OC AT BOUNDARIES, AT 6" OC AT EDGES, AND 12" OC AT

INTERMEDIATE SUPPORTS, MIN. 36" EDGE DISTANCE FOR FASTEMERS TO PLYWOOD EDGE PER CBC SECTION 2308.2 NOTE-0. 145 PHINE LIMATIC FASTEMER, OFFICH (BACKAST FREFEXEE) FASTIVES)
IS NOT AIRMED FOR APPLICATIONS AT STRUCTURAL STREET, FLOOR CHANNELS CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3800 PSI or 4000 PSI TYPE: LORII

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING: 2 x STUDS AT CORNER STEEL COLUMNS (MALING STUD)

DENSITY: 110 PCF - MAX

USE: #10 - 24 x 2 1/2" LG. SELF-DRELING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCRENE AT 24" O.C. REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1 CALIFORNIA BUILDING CODE, 2010 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 13TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AMS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATERT EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:

WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CCD PPROVED BY THE DIVISION OF THE STATE ARCHITECT AS RECLIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES: 1. ALL NAILS BHALL BE COMMON UNLESS OTHERWISE NOTED

2: MACHINE APPLIED 184 FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS: ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS: AS RECURRED PER AMEL/ARAFA NOS-2005, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE. WITH A STANDARD WASHER AND TURNED WITH A WRENCH, DO NOT DRIVE IN WITH A HAMMER, OVER-TORGUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE CBC-TABLE 2304.9.1 LOCATION 3 - 84 COMMON JOIST TO SILL OR GIRDER 3-8" x 0.181" NAILS TOENAL EACH END 2 - 8d COMMON (2 F x .131") **BRIDGING TO JOIST** -3" x 0.91" NAILB FACE NAIL - 84 COMMON (2 1 x .131") 3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL _8d COMMON (2 \(\frac{1}{2} \) x .131") , WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST 5. 2" SUBFLOOR TO JOIST OR GIRDER TYPICAL FACE NAME led(3 & x .135") AT 16" O.C. 8. SOLE PLATE TO JOSET OR BLOCKING 3'x0.131" NAILS AT 8" O.C. BRACED WALL PANE 3 - 16d(3 {* x .135*) AT 16* O.C. 4 - 3*x0.131* NABS AT 16* O.C. SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL 2 - 18d COMMON (3 (* x 0.162") END NAIL 7. TOP PLATE TO STUD 3 - 3"x0.031" NAILS - 8d COMMON (2 ₹x0.131") 8. STUD TO SOLE PLATE 4-8"x0.181" NALS - 16d COMMON (3 {"x0.162") 3-370.131"NALS 9. DOUBLE STUDS 18d (3 \$7:0.138") AT 24". O.C. 37:0.131" NAILS AT 12" O.C. 10d (3 \$7x0.135") AT 24" O.C. 10. DOUBLE TOP PLATES TYPICAL FACE NAIL 31:0.131" NAILS AT 12" O.C. - 16d COMMON (3 ["x0.162") 12 - 37:0.131" NALS DOUBLE TOP PLATES 1. BLOCKING BETWEEN JOISTS OR PAFTERS TO TOP PLATE 3 - 64 COMMON (2 \$10.131") 3 - 3"x0.131" NAILS 84 (2 17:0.131") AT 6" O.C. TOENAIL, 12. RIM JOIST TO TOP PLATE 37x0.131" NAIL AT 6" O.C. - 18d COMMON (8 £50.162°) PACE NAIL 3. TOP PLATES, LAPS, AND INTERSECTIONS 3 - 3'x0.131" NAILS |66 COMMON (3 _7x0.162") 14. CONTINUOUS HEADER, TWO PIECES - Bd COMMON (2 {7d0.131") - 37d0.131" NAILS 15. CEILING JOIETS TO PLATE 4 - 8d COMMON (2 }"x0.181") 16. CONTINUOUS HEADER TO STUD 3 – 16d COMMON (3 ['**0.162") NIII TABLE 2308.10.4.1 17. CEILING JOIETS, LAPS OVER PARTITIONS (BEE SECTION 2806.10.4.1, TABLE 2306.10.4.1) 4-3"x0.131" NAILS - 16d COMMON (3 £3:0.162") Mi is. Ceiling Joists to Parallel Rafters TABLE 2908.10.4.1 (SEE SECTION 2308.10.4.1, TABLE 2008.10.4.1) 4-370.131" NALS 3 - 8d COMMON (2 \$3:0.181") 3 - 9"3:0.181" NALS 19. RAFTER TO PLATE SEE SECTION 2808.10.1, TABLE 2808.10.1 - 8d COMMON (2 £'x0.131") 20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE FACE NAIL - 3"XO.181" NAILS 3 - 8d COMMON (2 {7x0.131") PACE NAIL 21. 1" x 8" SHEATHING TO EACH BEARING FACE NAIL - 8d COMMON (2 {7x0.181") 22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING 28. BUILT-UP CORNER STUDS 37x0.131" NAILS 20d COMMON (4"x0.192")52" O.C. FACE NAIL AT TRAF AND TOUR TO STAGSET AND TOUR TO STAGSET AND TOUR TO STAGSET AND TOUR TOUR TOUR TRAFF. 24. BUILT-UP GIRDER AND BEAMS 350.131" NAIL AT 24" O.C ON OPPOSITE SIDES 2-20d COMMON (4"x0.192") 3 - 3"x0.131" NAILS AND AT EACH SPLICE AT EACH BEARING 164 COMMON (3 }7x0.162") 25. 2" PLANKS 26. COLLAR TIE TO RAFTER

BLIND AND FACE NAIL CLASS LEASING **CLASSROOM BLDG'S**

4 - 3"±0.131" NAILS

3-87:0.131" NAILS

-370.131" NAILS

3 - 37x0.131" NAILS

4 - 3%0.131" NAILS

4 - 3"x0.131" NAELS

1/2" AND LESS

9/32" TO 3/4"

34" AND LESS

1/2" AND LESS

1 1/6" TO 1 1/4" 100" OR 80"

27. JACK RAFTER TO HIP

29. JOIST TO BAND JOIST

30. LEDGER STRIP

TO FRAMING

32. PANEL SIDING (TO FRAMING)

23. FIRENDOARD SHEATHING

4. INTERIOR PANELING

28. ROOF RAFTERS TO 2-BY RIDGE BEAM

51. WOOD STRUCTURAL PANELS AND PARTICLESCARD D

SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT

AND 1 3/4" LENGTH FOR 25/22" SHEATHING

STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16".

STRUCTURAL PANELS.

CONTROLES: CALANDN OR BOX MAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.

NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLESOARD DIAPHRAGMS AND

SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX,

COMMON OR DEFORMED SHANK (6d.-2"x 0.113"; 8d - 2 1/2"x 0.131"; 10d - 3"x 0.148").

COMMON (6d - 2"x 0.113"; 8d - 2 1/2"x 0.131"; 10d - 3"x 0.148").

DEFORMED SHANK (6d - 2"x 0.113"; 8d - 2 1/2"x 0.131"; 10d - 3"x 0.148").

CORROSION-REMISTANT SIDING (6d - 1 7/8" x 0.168"; 8d - 2 3/8"x 0.128") OR CASING (6d - 2"x 0.066"; 8d - 2 4/2"x

0.113") NAIL FASTENERS SPACED 3" ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS,

WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON

CORROSION-REBISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/6" LENGTH FOR 1/2" SHEATHING

SUPPORTS.
PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE

FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.118") ARE THE MINIMUM REQUIRED FOR WOOD

FOR ROOF SHEATHING APPLICATIONS, PASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE

FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL

SHEATHING AND S' ON CENTER AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.

FASTENERS SPACED 4" ON CENTER AT EDGES. 5" AT INTERMEDIATE SUPPORTS.

AND 1 1/2" LENGTH FOR 28/32" SHEATHING, PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG

DIRECTION OF THE PANIEL, UNLESS OTHERWISE MARKED).

CASING (1 1/2" x 0.080") OR FINISH (1 1/2" x 0.072") NAILS SPACED 6" ON PANIEL EDGES, 12" AT INTERMEDIATE

CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.

CORROSION-RESISTANT ROOFING NALLS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING

SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)

3 - 10d COMMON (37:0.148")

- 18d COMMON (8 \(\frac{1}{2} \) \(\text{NO.162"} \)

2 - 16d COMMON (3 \$7x0.162")

- 16d COMMON (8 £x0.1827)

- 16d COMMON (3 \$7x0.1627)

3 - 16d COMMON (3 FX0.182") FACE NAIL AT EACH

2 (7x0.113" N

Sd^d or Sd^S

2" 16d GAGE

2 Px0.113" NA

2" 18d GAGE

NO. 11 GA ROOFING NAIL^{IN}

NO. 11 GA ROOFING NAIL!

86 COMMON NAIL (2'x0.113")

Bd COMMON MAIL (2 2'x 0.131")

TOE NAIL

TOE NAIL

FACE NAI

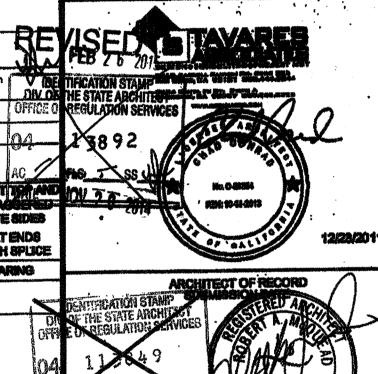
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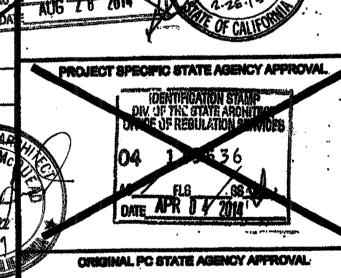
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STRUCTURAL **SPECIFICATIONS**





計画的學 DATE / DEC 9 9 201

REVISIONS

SILVER CREEK INDUSTRIES 24' x 40' PC PROJECT NO:

YE MWASK AS NOTED SCALE: 12-23-11 DATE P.C. SHEET NUMBER

STKP 140