

DIVISION 5 - CONCRETE

0200 - CONCRETE

- A. SOILS INFORMATION FROM 2001 CBC TABLE 18A-1-A.
1) 1000 PSF VERTICAL SOIL BEARING.
2) 100 PSF PER FT. OF DEPTH FOR LATERAL SOIL BEARING.
3) MINIMUM FOOTING DEPTH IS 12" BELOW FIRM NATURAL GROUND.
4) 1/3 STRESS INCREASE FOR SHORT TERM LOADINGS.
B. REINFORCEMENT TO MEET ASTM A615, GRADE 40 FOR #4 REBAR AND SMALLER, AND GRADE 60 FOR #5 BARS AND LARGER.
C. CONCRETE TO CONSIST OF A MINIMUM OF 5 SACKS OF CEMENT (OR CEMENT PLUS FLY ASH), COARSE AGGREGATE (3/4" MAX. OR 3/8" MAX FOR SMALL LINE PUMPING), FINE AGGREGATE, WATER REDUCING ADMIXTURE, AND WATER. WATER/CEMENT RATION NOT TO EXCEED 0.55. SLUMP SHALL BE 5" OR LESS. CONCRETE SHALL YIELD A COMPRESSIVE STRENGTH OF 2500 PSI AFTER 28 DAYS.
D. CONCRETE SLAB TO BE 4" THICK WITH 6" X 6" - 10" X 10" W/AF. PLACE SLAB OVER 2" FILL SAND, 6 MIL VAPOR BARRIER, OVER COMPACTED PAD (PAD N.I.C.) (1000 PSF VERTICAL SOIL BEARING)
E. ALTERNATE VAPOR BARRIER UPGRADE: RAVEN INDUSTRIES VB-10 (10 MIL) OR EQUAL

DIVISION 5 - METALS

0541 - METAL STUD SYSTEM:

- A. CALCULATIONS AND DRAWING HAVE BEEN PREPARED IN ACCORDANCE WITH THE FOLLOWING CODES:
1) 2001 CALIFORNIA BUILDING CODE
2) 1991 UNIFORM BUILDING CODE
3) 1986 A.I.S.I. SPECIFICATION FOR LIGHT GAUGE STEEL FRAMING MEMBERS (1998 ADDEDUM)
4) 1989 A.I.S.C. 4TH EDITION
B. ALL LIGHT GAUGE STEEL USED FOR STUDS, TRACK, BLOCKING, ETC., SHALL MEET THE REQUIREMENTS OF THE METAL STUD MANUFACTURERS ASSOCIATION (MSMA) ICBO E5 EVALUATION REPORT NO. 4445 DATED JUNE, 1989.
C. ALL METAL STUD FRAMING SHALL CONFORM TO THE FOLLOWING:
1) 16 GAUGE AND HEAVIER- ASTM A446 GRADE D (50 ksi minimum yield)
2) 18 GAUGE AND LIGHTER- ASTM A446 GRADE A (33 ksi minimum yield)
D. ALL LIGHT GAUGE METAL STUDS SHALL BE PUNCHED WITH CONVENIENCE HOLES WITH A MAXIMUM WIDTH OF 1/2" AND SPACED AT NO GREATER THAN 24" O.C. BUT NOT LESS THAN 18" O.C.
E. ALL CALCULATED STUD PROPERTIES, PER 1986 A.I.S.I. SPECIFICATIONS, ARE BASED ON THE FOLLOWING THICKNESSES:
1) 12 GA. - 0.1046"
2) 14 GA. - 0.0747"
3) 16 GA. - 0.0581"
4) 18 GA. - 0.0478"

F. LATERAL BRIDGING OF STEEL STUDS IS REQUIRED WHEN WALL BOARD, INSTALLED PER CBC CHAPTER 25A, DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES. SOLID BRIDGING SHALL BE INSTALLED AT EDGES OF WALLBOARD UNLESS OTHERWISE NOTED.

G. AXIALLY LOADED STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. SPLICE IN AXIALLY LOADED MEMBERS SHALL NOT BE PERMITTED.

H. ALL PRE-MANUFACTURED METAL CONNECTORS SHALL MEET THE REQUIREMENTS OF "SIMPSON" OR EQUIVALENT.

I. ALL STRUCTURAL BOLTS AS SPECIFIED ON THE DRAWINGS SHALL MEET ASTM A307.

J. SELF DRILLING FASTENERS HAVE BEEN DESIGNED IN ACCORDANCE WITH AISI, "SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS." FASTENERS SHALL MEET THE SIZES AS SPECIFIED IN THE SUBMITTAL.

DIVISION 6 - WOOD AND PLASTICS

06100 - ROUGH CARPENTRY:

- A. ROOF SHEATHING - 1/2" OR 5/8" APA RATED, 5-PLY, STRUCTURAL I, SPAN RATING 24/0, CD EXPOSURE I, PS 1-15, FASTENED TO ROOF TRUSS WITH "ERICO" NAILS.
B. WALL SHEATHING - 1/2" GYP BOARD BACKING FOR TACKBOARD AND FRP WALL PANELS OR NOTE: 5/8" GYP BOARD MAY BE SUBSTITUTED FOR 1/2" GYP BOARD BACKING
1/2" OR 5/8" APA RATED, 3-PLY, CD EXPOSURE I, FASTENED GYP BOARD TO STUDS WITH 0.1 DIA. CUPPED HEAD "ERICO" NAILS OR PLYWOOD TO STUDS WITH 0.1 DIA. "ERICO" NAILS.
C. SHEAR WALL - 1/2" OR 5/8" APA RATED, 5-PLY, STRUCTURAL I, SPAN RATING 24/0, CD EXPOSURE I, PS 1-15, FASTENED TO WALL STUDS AND TRACK WITH #5 X 1 1/4" SCREWS.
D. ALL EXTERIOR NAILS TO BE "ERICO" BRAND, ET & F PNEUMATIC FASTENERS, I.C.B.O. #4144, CORROSION RESISTANT NAILS AS PER 2001 CALIFORNIA BUILDING CODE STANDARD.
E. ALL SCREWS TO BE GALVANIZED OR CORROSION RESISTANT.
F. EXTERIOR WOOD TRIM ON EXTERIOR PLYWOOD SIDING:
1 X 4, 1 X 6 & 1 X 8 TEXTURED PRIME TRIM, MASONITE FACED MDO TRIM, SEALED AT ALL EDGES WITH SEALANT. PAINTED AFTER INSTALLATION. (WOOD TRIM DELETED ON STUCCO, PLASTER FINISH)
G. ALTERNATE EXTERIOR NAILS: SUBSTITUTE BULDEX GYP-FAST NAILS FOR ERICO BRAND FASTENERS

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07210 - BUILDING INSULATION:

- A. EXTERIOR WALL INSULATION BY MANVILLE, OWENS/CORNING, OR APPROVED EQUAL SHALL HAVE A RATING OF R-19 IN 4" WALLS AND R-19 IN 6" WALLS (KRAFT FACED ONE SIDE), ASTM C665, TYPE III, CLASS B, FLAME SPREAD NOT TO EXCEED 25 AND SMOKE DEVELOPMENT OF 50.
B. CEILING AND SUB-FLOOR INSULATION SHALL HAVE A RATING OF R-30 (UNFACED), ASTM C665, TYPE III, CLASS A, FLAME SPREAD NOT TO EXCEED 25 AND SMOKE DEVELOPMENT OF 50.

07411 - METAL ROOF PANELS:

A. PREFINISHED KYNAR 500, UNPENETRATED INTERLOCKING, 24 GA. X 19" WIDE X 1 1/2" HIGH STANDING SEAM, ASTM A792, GRADE 50A, GALVANIZED STEEL. METAL PANELS, MODEL 955550, SNAP-LOCK SEAM, I.C.B.O. #4566, BY CUSTOM BUILT METALS, MET FAB, NEM TECH MACHINERY CORPORATION, OR EQUAL. METAL ROOF PANELS FASTENED TO PLYWOOD SHEATHING WITH 20 GA. PANEL CLIPS SPACED AT 24" ON CENTER (MAX.) WITH (6) - #4 X 1 1/4" HI-LO SCREWS. PROVIDE AND INSTALL 50 LB. ROOF FELT UNDER METAL ROOF PANELS.

B. ROOF COVERING CLASSIFICATION: METAL ROOF: "CLASS A", AS PER UBC STANDARD 15-2.

07412 - METAL SOFFIT PANELS:

A. PRIMERED, PREFORMED, INTERLOCKING, 24 GA. X 12" X 1 1/2" HIGH STEEL SOFFIT PANELS FASTENED TO BOTTOM OF TRUSS TOP CHORD WITH #10 METAL SCREWS FROM SOFFIT PANELS TO BOTTOM OF TOP CHORD AT 12" ON CENTER. SEE 2A
B. METAL SOFFIT CLASSIFICATION: METAL SOFFIT: "CLASS A", AS PER UBC STANDARD 15-2.

07550 - GARLAND ROOFING OR EQUIVALENT (TEAM ROOM):

MODIFIED BITUMINOUS ROOFING WORK INCLUDING BUT NOT LIMITED TO:

- 1. MINIMUM TWO (2) PLIES OF APPROVED HPR SA FR BASE SHET.
2. BASE FLASHING PLY WILL BE ONE PLY OF EIGHTY (80) MIL HPR SA FR BASE SHEET COVERED BY AN ADDITIONAL LAYER OF STRESSPLY SA FR MINERAL MODIFIED MEMBRANE
3. MODIFIED MEMBRANE: STRESSPLY SA FR MINERAL, 135 MIL 985 (STYRENE-BUTADIENE-STYRENE) RUBBER MINERAL SURFACED MODIFIED ROOFING MEMBRANE REINFORCED WITH A DUAL FIBERGLASS SCRIM AND FIRE RETARDANT CHARACTERISTICS.

07901 - JOINT SEALERS

A. SILICONE OR ARCHITECTURAL GRADE CAULKING

DIVISION 8 - DOORS AND WINDOWS

0810 & 08210 - SOLID CORE DOORS AND WELDED METAL FRAMES:

- A. EXTERIOR DOORS TO BE FULL FLUSH.
B. 3'-0" X 7'-0" X 1 3/4" FRP DOORS ON "STILES" 16 GA. WELDED FRAME OR APPROVED EQUAL.
C. GLAZING IN DOORS AND WINDOWS ADJACENT TO EXIT DOORS SHALL BE SAFETY GLASS AS PER 2001 C.B.C., SECTION 2406.4.
D. INTERIOR DOORS TO BE 3'-0" X 6'-8" (USE 4310 652 4.3 X 4.5 BOMMER SELF CLOSING HINGE WHEN CLOSER IS SPECIFIED) X 1 3/4" SOLID CORE WOOD DOORS ON "TIMELY" PREFINISHED STEEL DOOR FRAMES OR APPROVED EQUAL.
E. FASTEN METAL DOOR FRAME PER DETAILS
F. MUST PRESERVE 6'-8" A.F.F. CLEAR HEIGHT. IF CLOSURE IS USED DOOR MUST BE "I-O" MINIMUM HEIGHT.
G. ALTERNATE DISTRICT STANDARDS: EXTERIOR DOORS: SPECIAL LITE SL-17 FRP DOOR (STORE FRONT) SPECIAL LITE ALUMINUM TUBE FRAME 2X6" IN TUBE FRAME. SL-11 CONTINUOUS HINGE INTERIOR DOORS: HOLLOW METAL DOOR WITH LCN OF NORTON CLOSURES AND DOOR STOPS WITH ALUM FINISH

08710 - DOOR HARDWARE:

- A. PANIC HARDWARE: EXTERIOR DOORS, VON DUPRIN CD 996L US26D OR EQUAL.
B. KEYPED LOCKSET: RESTROOM ND 85 SCHLAGE.
C. KEYPED LOCKSET: EXTERIOR DOORS, SCHLAGE DTO RHO 626 LEVER HANDLE OR EQUAL.
D. INTERIOR HINGES: HAGER BB 1271, 4-1/2" X 4-1/2" OR EQUAL.
E. THRESHOLD: PEMKO P270A36 OR EQUAL, 1/2" MAX. HEIGHT OR EQUAL.
F. DOOR CLOSER: LCN 4041 AL LCN OR EQUAL, MAX. OPENING PRESSURE OF 5 LBS. EXTERIOR & 1 LBS. INTERIOR OR EQUAL. DOOR CLOSURE SHALL COMPLY WITH ADA 4.13.10 CLOSER DELAY TIME
G. DOOR HOLD OPEN: TRIMCO 1254 626 OR EQUAL.
H. WEATHERSTRIP: PEMKO 306 AV 3604 OR EQUAL AT EXTERIOR DOORS.
I. KICK PLATES: TRIMCO KO05010" X 34" AT ENTRY DOORS & TOILET DOORS OR EQUAL.

J. ALTERNATE DISTRICT STANDARDS: EXTERIOR DOORS: VON DUPRIN ELS9-PANIC HARDWARE (ON INSIDE OF DOOR FOR EXIT) WHERE PANIC HWDR IS REQD. LCN 4040 OR EQUIV. DOOR CLOSURE INTERIOR DOORS: SCHLAGE HEAVY DUTY COMMERCIAL D SERIES. SPARTA LEVERS (FOR USE WITH IC CORES EIGHT SHAPE), SCHLAGE F SERIES IC CORES (KEYWAYS)

NOTE: DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT REQUIRING A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. HAND OPERATED DOOR HARDWARE TO BE BETWEEN 30" - 44" A.F.F.

08810 - GLASS AND GLAZING:

A. ONE PIECE ALUMINUM DOUBLE INSULATED GLASS WINDOWS, MILSARD SERIES 1110 OR APPROVED EQUAL, LOE 172/CLR, SH6C. 39 (U-VALUE .27) SEE FLOOR PLAN AND EXTERIOR ELEVATIONS FOR SIZES.

DIVISION 9 - FINISHES

09200 - LATH AND PLASTER:

A. STUCCO FINISH SHALL BE MAXIT 690. MAXIT 690 IS A PRE-BLENDED CEMENT-BASED PLASTER MIX, (A TWO COAT SYSTEM).

THE COMPONENTS ARE:

Table with 4 columns: TYPE, PART, ASTM, and U.S. STANDARD. Includes Type I-II Portland Cement, Type S Hydrated Lime, and Sand.

B. MAXIT 690'S COMPONENT PROPORTIONS ARE IN ACCORDANCE WITH ASTM C926-98a. MAXIT 690 SIMULTANEOUSLY PLACES THE SCRATCH AND BROWN COATS PER 1947 UBC SECTION 2508 TABLE 25-F AND 2508.6 OF PORTLAND CEMENT-LIME PLASTER.

C. EXTERIOR STUCCO MESH SHALL BE 17GA X 1 1/2" GALVANIZED SELF FURRING NETTINGS WITH DOUBLE BLACK KRAFT PAPER PER FS-U-B-790, TYPE I, GRADE D, STYLE 2, AND U.B.C. STANDARD 14-1.

D. INSTALL WESTERN #1A GALVANIZED METAL CORNER BEAD AT ALL OUTSIDE CORNERS.

E. INSTALL WESTERN #15 GALVANIZED M-SHAPED METAL CONTROL JOINTS, AS SHOWN ON EXTERIOR ELEVATIONS.

F. INSTALL WESTERN #66 METAL CASING BEADS AROUND DOORS.

G. INSTALL WESTERN #7 FOUNDATION SILL SCREED AT BOTTOM OF CEMENT PLASTER.

H. ALTERNATE LATH SYSTEM: SEE SHEET SS-1

09510 - ACOUSTICAL CEILINGS:

A. GRID: USE DDXDL2620 050 FN 144" T-BAR MAIN, DDXDL24260 050 FN 48" T-BAR CROSS, DDXDL21660 050 FN 24" T-BAR CROSS AND MICT 050 FN 144" WALL MOLD.

B. ACOUSTIC TILES: 24" X 48" X 5/8" SQUARE EDGED #562 ACOUSTIC PANELS USE OR APPROVED EQUAL, CONFORM TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATIONS 55-5-118B. FLAME SPREAD NOT TO EXCEED 25 AND SMOKE DEVELOPMENT OF 50.

C. USE VINYL ROCK, LAY-IN CEILING TILE IN KITCHEN AND RESTROOM AREAS. ASTM E1264, CLASS A, FLAME SPREAD OF 25 AND SMOKE DENSITY OF 10.

D. GRID SHALL BE DIRECTLY HUNG FROM BOTTOM CHORD OF SCISSOR TRUSS.

E. PROVIDE DRAFT STOP PER CBC 708.2.1.2, SEE 5-1

09650 & 09682 RESILIENT FLOORING & CARPETING:

A. CARPET: CARPET SHALL BE DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220-216-21 GROUP 1, TYPE "A", CLASS 24, (NON-SLIP) THE CARPET DENSITY SHALL BE 4600 MINIMUM PILE YARN, BRANDED NYLON, NO CROSS SEAMS SHALL BE ALLOWED. 1/2" MAX. FILE HEIGHT.

B. RESILIENT COVE BASE: MOULDED RUBBER BASE, 1/8" THICK X 4" HIGH, 6" HIGH IN RESTROOM AND KITCHEN AREAS, MOULDED TOP SET COVE BY BURKE RUBBER CO. OR APPROVED EQUAL. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS.

C. ADHESIVES: ALL ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

D. VINYL TILES: 12" X 12" X 1/8" VINYL TILES BY ARMSTRONGS OR APPROVED EQUAL SHALL HAVE MINIMUM COEFFICIENT OF FRICTION OF AT LEAST 0.5 PER ASTM D2047

E. SHEET VINYL: RESTROOM AND KITCHEN AREAS TO BE SHEET VINYL BY ARMSTRONGS OR EQUAL. SHALL HAVE MINIMUM COEFFICIENT OF FRICTION OF AT LEAST 0.5 PER ASTM D2047

09710 ACOUSTICAL WALL PANELS:

A. VINYL WALL BOARD/TACKBOARD: VINYL WALL BOARD PANELS COMPOSED OF VINYL FABRIC WRAPPED AROUND 1/2" THICK LIGHTWEIGHT WOOD FIBER PANEL. TESTED IN CONFORMANCE WITH ASTM DESIGNATION E-84. FLAME SPREAD 65 COMPLIES WITH CBC CHAPTER 8, TABLE 8-B WITH SMOKE DENSITY OF 15.

B. MARLITE - FRP PANELS: NON-POROUS COLOR - INTEGRAL FIBERGLASS REINFORCED POLYESTER PANELS (FRP) APPLIED OVER 1/2" PLYWOOD BACKER BY ADHESIVE. MOLDINGS SHALL BE USED AT ALL JOINTS. FIRE RATING: CLASS I/A, I.C.B.O. REPORT #1065, U.S.D.A. APPROVED. FLAME SPREAD: <200 SMOKE DENSITY: <450

09901 - PAINT AND STAINS:

- A. EXTERIOR STUCCO: PRIMER: 5210-1200 ULTRA-HIDE AQUACRYLIC GRIPPER PRIMER-SEALER OR APPROVED EQUAL. FINISH: 2200-XX DULUX PROFESSIONAL EXT 100% ACRYLIC FLAT OR APPROVED EQUAL.
B. EXTERIOR FRAMES: PRIMER: ZINSSER COVER STAIN OR APPROVED EQUAL. FINISH: 2406-XX DULUX PROFESSIONAL EXT 100% ACRYLIC SEMI-GLOSS OR APPROVED EQUAL.
C. EXTERIOR DOORS: PRIMER: ZINSSER COVER STAIN OR APPROVED EQUAL. FINISH: 2402-XX DULUX PROFESSIONAL EXT 100% ACRYLIC SATIN OR APPROVED EQUAL.
D. EXTERIOR SOFFIT: PRIMER: 5210-1200 ULTRA-HIDE AQUACRYLIC GRIPPER PRIMER-SEALER OR APPROVED EQUAL. FINISH: 2200-XX DULUX PROFESSIONAL EXT 100% ACRYLIC FLAT OR APPROVED EQUAL.
E. INTERIOR TRIM: PRIMER: ZINSSER COVER STAIN OR APPROVED EQUAL. FINISH: 1406-XX DULUX PROFESSIONAL ACRYLIC SEMI-GLOSS OR APPROVED EQUAL.
F. INTERIOR DOORS: 118: HIGH SOLIDS SANDING SEALER OR APPROVED EQUAL. 120: HIGH SOLIDS RUBBED EFFECT 25 DEGREE SHEEN OR APPROVED EQUAL. 120: HIGH SOLIDS SEMI-GLOSS 55 DEGREE SHEEN OR APPROVED EQUAL.

DIVISION 10 - SPECIALTIES

10430 - BUILDING IDENTIFICATION:

A. PROVIDE METAL TAG ON ALL BUILDINGS, MECHANICALLY ATTACHED TO UNDERSIDE OF FIRST SOFFIT PANEL ABOVE HVAC CONDENSER OR EXHAUST GRILLE. IDENTIFY EACH HEATING ZONE WITH A SEPERATE UNIQUE NUMBER, AND ALSO INDICATE THE DSA APPLICATION NUMBER.

DIVISION 15 - MECHANICAL

15200 - HVAC:

- A. INTERIOR UNITS- HEATING, VENTILATING, AIR CONDITIONING (H.V.A.C.) SHALL BE ONE PIECE, ZONED, MOUNTED, FACTORY ASSEMBLED, PRECHARGED, PREWIRED, PRETESTED, UL LISTED.
B. PRIMARY H.V.A.C.: FREE STANDING ELECTRIC AIR TO AIR HEAT PUMP BARD G/TEC TM GH SERIES 2 (3 - 5 TON) HEAT PUMP (WT=500 LB. - 50 LB.)
C. ADD ALTERNATE #1: VERTICAL OR HORIZONTAL - ELECTRIC SPLIT SYSTEM WITH AUXILIARY HEAT LENNOX "CB" SERIES BLOWER COIL (3 - 5 TON) (WT= 118 LB. - 167 LB.), LENNOX "HS/HO" SERIES CONDITIONER AND HEAT PUMP. (3 - 5 TON) (WT=176 LB. - 237 LB.)
D. ADD ALTERNATE #2: VERTICAL - INDUCED COMBUSTION FURNACE LENNOX "640" SERIES GAS FURNACE (44 - 110 M BTU) UPFLOW OR HORIZONTAL FURNACE (WT= 118 LB. - 167 LB.), LENNOX "ACC" SERIES AIR CONDITIONER (3 - 5 TON) (WT=118 LB. - 231 LB.)

E. THERMOSTAT: ELECTRONIC, DIGITAL DISPLAY, SEVEN DAY PROGRAMMABLE, WITH BATTERY BACKUP.
F. DUCT SYSTEM: SUPPLY AND RETURN PLENUMS TO BE 24 GAUGE GALVANIZED. DUCT LINES TO BE INSULATED WIRE FLEX DUCT.

DIVISION 16 - ELECTRICAL

16100 - CEILING FIXTURES:

A. RECESSED 2' X 4' FLUORESCENT LIGHT FIXTURES, CRESENT MODEL # 248F30BFSAIK6Y-F2, OR EQUAL, 3 PRE-LAMP T-8, FLUORESCENT TUBES WITH APPROVED ENERGY EFFICIENCY.
B. BALLAST AND PRISMATIC ACRYLIC LENS THAT MEETS TITLE 24, C.B.C. SECTION 2603.

16500 - CONDUITS:

A. CONDUITS IN WALLS, CEILINGS, FLOOR AND BELOW GRADE SHALL BE SCHEDULE 40 RIGID PVC WITH SOLVENT WELD FITTINGS AND CONNECTORS. PENETRATION OF PVC SNEEPS AND PIPES FROM BELOW GRADE THROUGH FOOTINGS AND SLAB INTO EXTERIOR WALLS SHALL BE PERMITTED. PER NEC SECTION 547-2, USES PERMITTED - (A) CONCEALED, IN WALLS, FLOORS AND CEILINGS (EXPOSED), FOR EXPOSED WORK WHERE NOT SUBJECT TO PHYSICAL DAMAGE IF IDENTIFIED FOR SUCH USE. (USE EMT GALVANIZED METAL CONDUIT IF SUBJECT TO PHYSICAL DAMAGE.)

B. FLEXIBLE METAL CONDUITS SHALL BE USED FOR FINAL CONNECTIONS TO PANELS, HOMERUNS, MOTORS, VIBRATING EQUIPMENT AND FIXTURES IN SUSPENDED CEILING, OR AT OTHER PLACES WHERE THE OTHER CONDUITS ARE IMPRACTICAL. USE WHERE STRUCTURAL, SEISMIC SEPARATIONS ARE REQUIRED. USE LIQUID TIGHT FLEXIBLE CONDUIT WHERE EXPOSED TO WEATHER OR MOISTURE.

C. USE TYPE "MC" CABLES FOR BRANCH CIRCUITS, FOR POWER, LIGHTING, CONTROL, AND SIGNAL CIRCUITS; INDOORS, WHERE EXPOSED OR CONCEALED; AS OPEN RUNS OF CABLE, WHERE IT WILL NOT BE SUBJECT TO PHYSICAL DAMAGE.

D. USE 3/4" SCHEDULE 40 RIGID PVC FROM J-BOX TO ATTIC SPACE FOR FIRE ALARM SYSTEM COMPUTER DATA, TELEPHONE, TELEVISION OUTLETS, SPEAKER OUTLETS, SECURITY SYSTEM AND HOMERUNS UNDER SLAB FOR ELECTRICAL POWER. LOW VOLTAGE ENTRY CONDUIT TO BE STUBBED OUT OF WALL ABOVE T-BAR CEILING WITH SNEEP (LOW VOLTAGE WIRING, FIXTURES, DEVICES AND BACK BOXES N.I.C.)

16580 - GROUNDING:

A. GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER PER NEC 250-42 (a), SIZED IN COMPLIANCE WITH NEC TABLE 250-44 (IF SERVICE) OR TABLE 250-45 (IF EQUIPMENT). BONDING JUMPERS SHALL BE THE SAME SIZE AS GROUNDING ELECTRODE CONDUCTOR USE TABLE NEC 250-74.

B. GROUNDING CONDUCTORS SHALL BE #4 X 20 FT. LONG BARE SOLID COPPER CONDUCTOR ATTACHED TO THE BOTTOM REINFORCING BAR WITH TWO GROUNDING CLAMPS AND ENCASED WITH CONCRETE. ADD NECESSARY LENGTH TO 20 FT. TO REACH GROUND BAR AT PANEL. SEE 7-A-B

C. THE TERMINATION OF THE BONDING JUMPERS SHALL BE INSPECTED BEFORE POURING CONCRETE FOR FOOTINGS.

D. ALL ELECTRICAL PANELS SHALL BE BONDED TO GROUNDING CONDUCTORS.

16600 - OUTDOOR LIGHTS:

A. SURFACE MOUNTED HIGH PRESSURE SODIUM LIGHTS WITH WATER PROOF, SHATTER PROOF, AND TAMPER PROOF LENS, BY STONCO WALLPACK MODEL # TLN10 NLX-170 WATT BULB OR EQUAL.

B. PHOTOCELLS PLACED TO OPERATE ALL FIXTURES AT BUILDING.

C. ALTERNATE EXTERIOR LIGHT: 13" ROUND, SHALLOW, WALL MOUNT, VANDAL-RESISTANT LUMINAIRE 32 WATT FLUORESCENT LAMP STONCO SURVIVR SERIES #SR5W132FLB8E0B

REVISIONS table with columns for revision number and description.

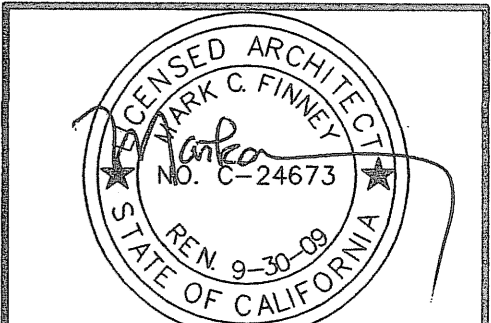
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SPECIFICATIONS



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DRAWN: DATE: 4.11.07. CHECKED: FAV. SCALE: NONE. PROJECT: 1615.

A-00

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AS-BUILTS