

ELECTRICAL ABBREVIATIONS

- ACH ABOVE COUNTER HEIGHT
- AF AMPERE FRAME (BREAKER RATING); AMPERE FUSE RATING
- AFB ABOVE FINISHED FLOOR
- AT AMPERE TRIP (BREAKER SETTING)
- BMS BUILDING MANAGEMENT SYSTEM
- BVS BATTERY VALIDATION SYSTEM
- C CONDUIT
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CS CONTROL STATION
- CU COPPER
- DWG DRAWING
- DVP DOMINION VIRGINIA POWER
- (E) EXISTING
- EC ELECTRICAL CONTRACTOR
- EMT ELECTRIC METALLIC TUBING
- EPS EMERGENCY POWER SYSTEM (GENERATOR)
- FM FIRE MARSHALL
- FLA FULL LOAD AMPERES
- G, GND GROUND(ED)
- GFI GROUND FAULT INTERRUPTER
- HP HORSEPOWER
- HR HOMERUN
- JB JUNCTION BOX
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MECH MECHANICAL
- MGB MAIN GROUND BUS
- MLO MAIN LUGS ONLY
- (N) NEW
- NEC NATIONAL ELECTRICAL CODE
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NTS NOT TO SCALE
- PNL PANEL
- PWR POWER
- ROB REMOTE GROUND BUS
- RL RELOCATED
- ROOM RM
- SWBD SWITCHBOARD
- TMGB TELECOM MAIN GROUNDING BUS
- TYP TYPICAL
- U.O.N. UNLESS OTHERWISE NOTED
- UPS UNINTERRUPTIBLE POWER SYSTEM
- W/ WITH
- W/O WITHOUT
- WP WEATHERPROOF
- XFMR TRANSFORMER

LIGHTING SYSTEM SYMBOLS

- 2 x 4 FLUORESCENT FIXTURE, RECESSED.
- 2 x 2 FLUORESCENT FIXTURE, RECESSED.
- 1 x 4 FLUORESCENT FIXTURE, RECESSED
- 1 x 4 STRIP LIGHT FIXTURE
- WALL (CEILING) MOUNTED EXIT SIGN. ARROW AND FACE AS NOTED ON PLANS
- DOWNLIGHT, RECESSED.
- OCCUPANCY SENSOR WATT STOPPER DT200.
- OCCUPANCY SENSOR WATT STOPPER WA-300 (DUAL CONTROL).
- OCCUPANCY SENSOR WATT STOPPER WA-200 (SINGLE CONTROL)
- SHADING OF ANY FIXTURE INDICATES UNSWITCHED EMERGENCY FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP

WIRING DEVICE SYMBOLS

- DUPLEX RECEPTACLE +18" A.F.F., U.O.N.
- QUAD RECEPTACLE +18" A.F.F., U.O.N.
- DUPLEX RECEPTACLE +42" A.F.F., U.O.N. GFI - GROUND FAULT INTERRUPTOR
- 208V, 1φ RECEPTACLE, NEMA 6-30R RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE, NEMA L5-30R
- SPECIAL PURPOSE RECEPTACLE, NEMA L5-20R
- SINGLE POLE SWITCH, +48" U.O.N.
- THREE WAY SWITCH
- MOTOR SWITCH WITH THERMAL OVERLOAD.
- THREE WAY, KEY SWITCH
- DATA OUTLET, MOUNT AT +18" AFF, U.O.N. PROVIDE (1) 1" stub FROM OUTLET TO 6" ABOVE ACCESSIBLE CEILING SPACE
- TELEPHONE OUTLET, MOUNT AT +18" AFF, U.O.N. PROVIDE (1) 1" stub FROM OUTLET TO 6" ABOVE ACCESSIBLE CEILING SPACE
- COMBINED DATA/TELEPHONE OUTLET, MOUNT AT +18" AFF, U.O.N. PROVIDE (1) 1" stub FROM OUTLET TO 6" ABOVE ACCESSIBLE CEILING SPACE
- SURFACE OR PENDANT RACEWAY WIREMOLD WITH DIVIDER.
- SECURITY DOOR MAGNETIC CONTACTS. REFER TO TELECOM DWGS. SYS.01 FOR MOUNTING AND CONDUIT ROUTING.
- SECURITY DOOR CARD READER. REFER TO TELECOM DWGS. SYS.01 FOR MOUNTING AND CONDUIT ROUTING.

RACEWAY & GROUNDING SYSTEM SYMBOLS

- INDICATES CONDUIT INSTALLED IN FLOOR SLAB IN UNDERGROUND. SAW CUT FLOOR FOR REQUIRED CHANNEL. SUBMIT DIMENSIONED PLAN AND SECTION VIEW OF PROPOSED SLAB CUTTING AND IN SLAB CONDUIT ARRANGEMENT TO ARCHITECT FOR REVIEW AND APPROVAL
- BRANCH CIRCUIT WIRING IN CONDUIT - CONCEALED IN CEILING OR WALL HOMERUN TO PANEL - 1/2" C-2#12, 1#12G MINIMUM. LARGER DASH INDICATES NEUTRAL CONDUCTOR, SMALLER DASH INDICATES PHASE CONDUCTOR.
- GROUND CONDUCTOR
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CEILING JUNCTION OR OUTLET BOX, MOUNTED ABOVE FINISHED CEILING
- WALL-MOUNTED JUNCTION OR OUTLET BOX, +18" U.O.N.
- EQUIPMENT CONNECTIONS

POWER DISTRIBUTION SYMBOLS

- MOTOR OUTLET
- 600V, NON-FUSEABLE DISCONNECT SWITCH, RATING AS INDICATED
- MAGNETIC STARTER/DISCONNECT SWITCH COMBINATION RATINGS AS NOTED ON DRAWINGS
- FUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER. NEMA 1 ENCLOSURE.
- PANELBOARD
- TRANSFORMER
- PULLBOX, SIZED PER CODE.

FIRE ALARM DEVICE SYMBOLS

FIRE ALARM DEVICE SYMBOLS ARE FOUND ON SHEET EF-1.

SINGLE LINE DIAGRAM SYMBOLS

- FUSE
- CIRCUIT BREAKER-FIXED MOUNTED
- TRANSFORMER
- DELTA CONNECTION
- WYE CONNECTION GROUNDED
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- WIRE CROSSING - NO CONNECTION
- WIRE CONNECTION
- CIRCUIT BREAKER- DRAW-OUT

DRAWING CONVENTIONS

- MECHANICAL EQUIPMENT DESIGNATION
- SHEET NOTE NUMBER
- DETAIL REFERENCE: DESIGNATION NUMBER SHEET NUMBER OF DETAIL
- REVISION REFERENCE MARKER.
- INTERCEPT OF CIRCUIT OR RACEWAY.
- LIGHTING FIXTURE IDENTIFICATION TAG - LETTER AND NUMBER INDICATES FIXTURE TYPE

GENERAL NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2001 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. AND ALL RELATED ELECTRICAL CODES.
2. PROVIDE ALL CUTTING, PATCHING AND PAINTING OF SURFACES AFFECTED BY THIS PROJECT. RESTORE SURFACES TO ORIGINAL CONDITION.
3. REFER TO DRAWINGS OF OTHER TRADES FOR COORDINATION OF ELECTRICAL CONSTRUCTION. EXACT LOCATION TO BE FIELD DETERMINED. ADJUST LAYOUTS AND ROUTE ELECTRICAL SYSTEMS AND CIRCUITS AS REQUIRED AT NO EXTRA CHARGE. SEE SPECS FOR TRADE COORDINATION DRAWING SUBMITTAL REQUIREMENTS. PROVIDE SHOP DRAWINGS FOR ALL CONDUIT ROUTING SHOWING COORDINATION WITH NEW EQUIPMENT, MECHANICAL DUCT WORK, AND EXISTING CONDITIONS.
4. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
5. MAINTAIN FIRE RATING FLOORS AND PARTITIONS THROUGHOUT. WHERE WORK REQUIRES PENETRATION OF FIRE RATED PARTITION OR FLOOR, PROVIDE FIRE STOPPING IN ACCORDANCE WITH PUBLISHED UL METHOD AND MEANS AS LISTED IN THE UL FIRE RESISTANCE DIRECTORY.
6. PROVIDE LEGIBLE IDENTIFICATION OF ALL ELECTRICAL EQUIPMENT INCLUDING RACEWAYS AS SPECIFIED AND AS REQUIRED BY CODE TO INDICATE PURPOSE, PHASE, AND WIRE NUMBER.
7. EACH RECEPTACLE SHALL BE GROUNDED BY MEANS OF AN INSULATED COPPER CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250-95.
8. PROVIDE AN INSULATED COPPER GROUND CONDUCTOR FOR RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT.
9. COORDINATE TEMPORARY CONNECTIONS WITH OWNER.
10. IDENTIFY ALL RECEPTACLES AND SWITCHES PER SPEC WITH COLOR CODING AND LABELING.
11. VISIT SITE PRIOR TO BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS. PROVIDE PULL BOXES AS REQUIRED BY CODE. CONTRACTOR TO INCLUDE IN BASE BID ALL VERTICAL AND HORIZONTAL OFFSETS REQUIRED BASED ON EXISTING CONDITIONS. NO EXTRA COMPENSATION WILL BE PROVIDED FOR ADDITIONAL CIRCUIT LENGTHS REQUIRED TO MAKE CONNECTIONS TO EXISTING EQUIPMENT AND DEVICES.
12. COORDINATE MECHANICAL EQUIPMENT LOCATIONS IN FIELD WITH FINAL MECHANICAL CONTRACTOR.
13. USE WEATHERPROOF CONSTRUCTION FOR ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER.
14. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF ELECTRICAL WORK. LAYOUT, ROUGH-IN, AND EXACT LOCATIONS OF ALL FIXTURES, DEVICES, AND OUTLETS IS TO BE BASED ON THE ARCHITECTURAL DRAWINGS. DO NOT COMMENCE INSTALLATION OF FIXTURES, DEVICES, AND OUTLETS WITHOUT RELATED SHOP DRAWING APPROVALS.
15. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY EITHER IS TO BE INFERRED TO BE REQUIRED BY BOTH.
16. PROVIDE AS-BUILT DRAWINGS AT THE CONCLUSION OF THE PROJECT PER SPECIFICATIONS.
17. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
18. SEE MECHANICAL DRAWINGS FOR IDENTIFICATION OF 120 VOLT 20 AMP CIRCUIT REQUIREMENTS FOR BMS CONTROL POWER.
19. NOT USED.
20. COMPLY WITH NEC 300.7: PROVIDE APPROVED SEALING MATERIALS FOR ALL RACEWAYS ENTERING THE BUILDING INTERIOR FROM ALL EXTERIOR LOCATIONS INCLUDING BUT NOT LIMITED TO ROOFTOP, GRADE LEVEL, AND WALL MOUNTED EQUIPMENT LOCATIONS.
21. REFER TO SECURITY DRAWINGS FOR ADDITIONAL POWER REQUIREMENTS. PROVIDE 120V POWER AND AND DEVICES AS REQUIRED.

LIGHTING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER/MODEL #	VOLTS	MOUNTING	LAMPS	WATTS	REMARKS	WEIGHT/DETAIL
A	2x4 (3) LAMP FLUORESCENT LENSED TROFFER	WILLIAMS T8T-24-332-SA12-EB3-UNV	277	RECESSED	(3)32W T8	96	PROVIDE ELECTRONIC BALLAST	24LBS. (E6.01)
A1	2x4 (2) LAMP FLUORESCENT LENSED TROFFER	WILLIAMS T8T-24-232-SA12-EB3-UNV	277	RECESSED	(2)32W T8	64	PROVIDE ELECTRONIC BALLAST	24LBS. (E6.01)
A2	SAME AS "A1" EXCEPT W/ BATTERY PACK				(2)32W T8			24LBS. (E6.01)
A3	2x2 (2) LAMP FLUORESCENT LENSED TROFFER	WILLIAMS T8T-22-232U-SA12-EB2-UNV	277	RECESSED	(2)32U T8	64	PROVIDE ELECTRONIC BALLAST	20LBS. (E6.01)
A4	2x4 (2) LAMP FLUORESCENT SEALED LENSED TROFFER	DAY-BRITE 2DCLG232-FA21-277-1/2-EB	277	RECESSED	(2)32W T8	64	PROVIDE ELECTRONIC BALLAST	24LBS. (E6.01)
B	4' (2) LAMP FLUORESCENT WRAPAROUND	WILLIAMS 20-4-232-A-EB2-277	277	SURFACE/SUSPENDED	(2)32W T8	64	PROVIDE ELECTRONIC BALLAST	10LBS. (E6.01)
B1	SAME AS "B" EXCEPT W/ BATTERY PACK							10LBS. (E6.01)
C	7" APERTURE (1) LAMP, COMPACT FLUORESCENT DOWNLIGHT	WILLIAMS PH75-EB-277	277	RECESSED	(1)32W PL	32	PROVIDE ELECTRONIC BALLAST	12LBS. (E6.01)
C1	SAME AS TYPE "C" EXCEPT WALLWASHER							12LBS. (E6.01)
D	2x4 (2) LAMP FLUORESCENT PARABOLIC TROFFER	WILLIAMS HE30-D24-232-26S-EB2-277	277	RECESSED	(2)32W T8	96	PROVIDE ELECTRONIC BALLAST	24LBS. (E6.01)
D1	2x2 (2) LAMP FLUORESCENT PARABOLIC TROFFER	WILLIAMS U30-D22-232U-33S-EB2-277	277	RECESSED	(2)32U T8	96	PROVIDE ELECTRONIC BALLAST	20LBS. (E6.01)
E	LED EXIT SIGN (WALL OR CEILING PER PLANS)	WILLIAMS EXIT-G-EM-WHT-277	277	SURFACE	LED		PROVIDE EXIT SIGN WITH NUMBER OF FACES AND ARROWS SHOWN ON PLANS. PROVIDE GREEN LETTERING ON WHITE HOUSING.	10LBS. (E6.01)
E1	LED EXIT SIGN (LOW LEVEL)	WILLIAMS EXIT/SL-10-SF-G-EMWHT						6 LBS. (E6.01)
F1	4' (2) LAMP FLUORESCENT WALL FIXTURE WITH BATTERY UNIT	WILLIAMS 29-4-232-A-EB2-277	277	SURFACE	(2)32W T8	64	PROVIDE ELECTRONIC BALLAST	10LBS. (E6.01)
G	18" FLUORESCENT WALL WASHER FOR WHITEBOARDS	FINELITE 2-SX2-0-16-1T8-SC-96W-277-SM	277	SURFACE	(4)32W T8	128	PROVIDE ELECTRONIC BALLAST	24LBS. (E6.01)
H	EXTERIOR MINI SCENCE	GARDCO1 #111-MT-50MH-NP	277	SURFACE	(1)50W MH	60		20LBS. (E6.01)

3-Lamp outside lamps
2-Lamp 12 1/4 φ
φ 9 1/4 φ

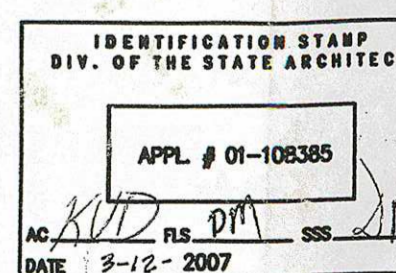
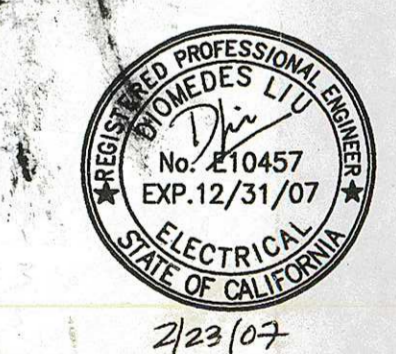


architect
STEINBERG ARCHITECTS
60 Pierce Avenue
San Jose CA 95110

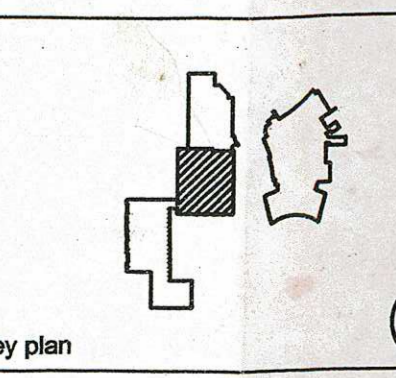
AS-BUILT

ELECTRICAL SHEET INDEX

- E0.01 GENERAL NOTES, ABBREVIATIONS, SYMBOLS, FIXTURE SCHEDULE, AND SHEET INDEX
- E0.02 LIGHTING CONTROL DIAGRAM
- E0.03 TITLE 24 COMPLIANCE FORMS
- E1.01 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
- E1.02 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
- E1.03 THIRD FLOOR ELECTRICAL DEMOLITION PLAN
- E1.04 ROOF ELECTRICAL DEMOLITION PLAN
- E2.01 FIRST FLOOR LIGHTING PLAN
- E2.02 SECOND FLOOR LIGHTING PLAN
- E2.03 THIRD FLOOR LIGHTING PLAN
- E3.01 FIRST FLOOR POWER AND SIGNAL PLAN
- E3.02 SECOND FLOOR POWER AND SIGNAL PLAN
- E3.03 THIRD FLOOR POWER AND SIGNAL PLAN
- E3.04 ROOF POWER AND LIGHTING PLAN
- E5.01 SINGLE LINE DIAGRAM
- E5.02 PANELBOARD SCHEDULES - 1ST FLOOR AND 2ND FLOOR
- E5.03 PANELBOARD SCHEDULES - 3RD FLOOR.
- E6.01 ELECTRICAL DETAILS - LIGHTING
- E6.02 ELECTRICAL DETAILS - POWER
- EF-1 COVER SHEET/DRAWING INDEX/EQUIPMENT LIST
- EF-2 MISCELLANEOUS FIRE ALARM DETAILS
- EF-3 EXISTING FIRE ALARM PANEL BUILDING 1
- EF-4 WHEELLOCK P.S. DETAILS AND RISER DIAGRAM
- EF-5 WIRING DETAIL OF FIELD DEVICES
- EF-6 FIRE ALARM PLAN - FIRST FLOOR
- EF-7 FIRE ALARM PLAN - SECOND FLOOR
- EF-8 FIRE ALARM PLAN - THIRD FLOOR



REV.	DATE	DESCRIPTION
02.27.07		DSA BACK CHECK
11.02.08		DSA SUBMITTAL
10.13.08		75% CD
09.12.08		40% PROGRESS



STEINBERG ARCHITECTS

project no: 06015 date: 02.27.07
drawn by: MAMP checked by: VB
scale: NONE

GENERAL NOTES, ABBREVIATIONS, SYMBOLS, FIXTURE SCHEDULE AND SHEET INDEX

RECEIVED

NOV 8 4 2008

E0.01