

ELECTRICAL ABBREVIATIONS

ACH	ABOVE COUNTER HEIGHT
AF	AMPERE FRAME (BREAKER RATING); AMPERE FUSE RATING
AFF	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
(ER)	EXISTING TO REMAIN
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
RGB	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'x4' FLUORESCENT FIXTURE, SURFACE
	4' FLUORESCENT FIXTURE, SURFACE
	SHADING OF ANY FIXTURE INDICATES UNSWITCHED EMERGENCY FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP
	DUAL TECHNOLOGY OCCUPANCY SENSOR
	WALL (CEILING) MOUNTED EXIT SIGN. ARROW AND FACE AS NOTED ON PLANS

WIRING DEVICE SYMBOLS

	DUPLEX RECEPTACLE +18" A.F.F., U.O.N.
	QUAD RECEPTACLE +18" A.F.F., U.O.N.
	SINGLE POLE SWITCH, +48" U.O.N.
	THREE WAY SWITCH
	DATA OUTLET, MOUNT AT +18" AFF, U.O.N. PROVIDE (1) 1" C STUB FROM OUTLET TO 6" ABOVE ACCESSIBLE CEILING SPACE
	TELEPHONE OUTLET, MOUNT AT +48" AFF, U.O.N. PROVIDE (1) 3/4" C STUB FROM OUTLET TO CABLE TRAY
	COMBINED DATA/TELEPHONE OUTLET, MOUNT AT +18" AFF, U.O.N. PROVIDE (1) 3/4" C STUB FROM OUTLET TO CABLE TRAY

POWER DISTRIBUTION SYMBOLS

	PANELBOARD
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FIRE ALARM DEVICE SYMBOLS

	STROBE/HORN COMBINATION
	PULLSTATION

RACEWAY AND GROUNDING SYSTEM SYMBOLS

	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
	CEILING JUNCTION OR OUTLET BOX, MOUNTED ABOVE FINISHED CEILING
	WALL-MOUNTED JUNCTION OR OUTLET BOX, +18" U.O.N.

LIGHTING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER/MODEL #	VOLTS	MOUNTING	LAMPS	WATTS	REMARKS	WEIGHT/DETAIL
F1	4' (3) LAMP FLUORESCENT LENSED WRAPAROUND	H. E. WILLIAMS SERIES 21	277	SURFACE	(3)32W T8	93	PROVIDE ELECTRONIC BALLAST. PROVIDE EMERGENCY BATTERY BALLAST WHERE REQUIRED BY SHADING.	25LBS.

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
	DASHING OF ANY DEVICE INDICATES TO BE DEMOLISHED

GENERAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH UBC 2003 AND ALL RELATED ELECTRICAL CODES.
- PROVIDE ALL CUTTING, PATCHING AND PAINTING OF SURFACES AFFECTED BY THIS PROJECT. RESTORE SURFACES TO ORIGINAL CONDITION.
- 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.
- DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- 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.
- PROVIDE LEGIBLE IDENTIFICATION OF ALL ELECTRICAL EQUIPMENT INCLUDING RACEWAYS AS SPECIFIED AND AS REQUIRED BY CODE TO INDICATE PURPOSE, PHASE, AND WIRE NUMBER.
- EACH RECEPTACLE SHALL BE GROUNDED BY MEANS OF AN INSULATED COPPER CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250-95.
- PROVIDE AN INSULATED COPPER GROUND CONDUCTOR FOR RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT.
- COORDINATE TEMPORARY CONNECTIONS WITH OWNER.
- IDENTIFY ALL RECEPTACLES AND SWITCHES PER SPEC WITH COLOR CODING AND LABELING.
- 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.
- COORDINATE MECHANICAL EQUIPMENT LOCATIONS IN FIELD WITH FINAL MECHANICAL CONTRACTOR.
- USE WEATHERPROOF CONSTRUCTION FOR ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER.
- 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.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY EITHER IS TO BE INFERRED TO BE REQUIRED BY BOTH.
- PROVIDE AS-BUILT DRAWINGS AT THE CONCLUSION OF THE PROJECT PER SPECIFICATIONS.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SEE MECHANICAL DRAWINGS FOR IDENTIFICATION OF 120 VOLT 20 AMP CIRCUIT REQUIREMENTS FOR BMS CONTROL POWER.
- THE MODIFICATIONS TO THE EXISTING STRUCTURE AND NEW STRUCTURE ELEMENTS HAVE BEEN DESIGNED TO WITHSTAND THE SEISMIC FORCES SPECIFIED IN CHAPTER 16, SECTION 1613, OF THE INTERNATIONAL BUILDING CODE, USING THE FOLLOWING PARAMETERS:

SHORT PERIOD RESPONSE ACCELERATIONS	SDS=0.1813
ONE SECOND PERIOD RESPONSE ACCELERATION	SD1=0.0690
SEISMIC USE GROUP	III
SEISMIC IMPORTANCE FACTOR	I _E =1.25X.X
SEISMIC DESIGN CATEGORY	C
BASIC STRUCTURAL SYSTEM	BUILDING FRAME SYSTEM
SEISMIC SEISMIC-FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT	RA=3.0
SYSTEM OVER-STRENGTH FACTOR	2.5
DEFLECTION AMPLIFICATION FACTOR	CD=2.25
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

THE SEISMIC IMPORTANCE FACTOR IS BASED ON A CATEGORY III BUILDING CLASSIFICATION AS REQUESTED BY THE OWNER.
- 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.

ELECTRICAL SHEET INDEX

E0.01	GENERAL NOTES, ABBREVIATIONS, SYMBOLS, FIXTURE SCHEDULE, AND SHEET INDEX
E0.02	TITLE 24 COMPLIANCE
E0.03	TITLE 24 COMPLIANCE
E1.01	ELECTRICAL DEMOLITION PLAN
E2.01	LIGHTING PLAN
E3.01	POWER PLAN
E5.01	SINGLE LINE DIAGRAM AND PANELBOARD SCHEDULES
E6.01	ELECTRICAL DETAILS
EF1.0	FIRE ALARM EQUIPMENT LIST, GENERAL NOTES, AND SITE PLAN
EF1.1	FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS
EF1.2	FIRE ALARM DETAILS
EF1.3	FIRE ALARM PLAN

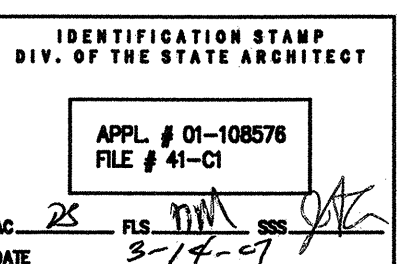


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3401 CSM DRIVE
SAN MATEO CA 94402

ARCHITECT
STEINBERG ARCHITECTS
60 PIERCE AVENUE
SAN JOSE CA 95110

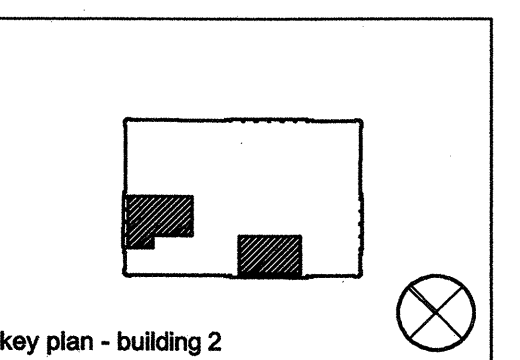


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02.02.07 DSA SUBMITTAL
DSA BACKCHECK

rev. date issue



STEINBERG ARCHITECTS
project no: 06044 date: 03/15/07
drawn by: VB checked by: DL
scale: 1/4"=1'-0"

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