### **ABBREVIATIONS**

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Α	AMPERE	IMC	INTERMEDIATE METAL CONDUIT
ABV	ABOVE	JB	JUNCTION BOX
AF	AMPERE FRAME, AMPERE FUSE	JB KAIC	KILOAMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
AIC	AMPERE INTERRUPTING CAPACITY	KVA	KILOVOLT AMPERE
ARCH	ARCHITECTURAL	KW	KILOWATT
AS		LTG	LIGHTING
ΔT	AMPERE TRIP	īV	LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	MAX	LOW VOLTAGE MAXIMUM THOUSAND CIRCULAR MILS
AV	AUDIO VISUAL	KCMIL	THOUSAND CIRCULAR MILS
BKR		MDF	MAIN DISTRIBUTION FRAME
BLDG	BUILDING	MECH	MECHANICAL
C	CONDUIT	MH	MANHOLE
CATV	CABLE TELEVISION	NAINI NAINI	MINIMUM
		NATES	MOUNTED
CB	CIRCUIT BREAKER	MIN MTD MTG	MOUNTING
CBC		NIG	NORMALLY CLOSED
CD	CANDELA	NC NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CEC	CALIFORNIA ELECTRICAL CODE	NEFA	
CFC	CALIFORNIA FIRE CODE	NIC NIEC	NOT IN CONTRACT
CKT	CIRCUIT	NIEC	NOT IN ELECTRICAL CONTRACT
CL	CENTER LINE	NO	NUMBER, NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CONDUIT ONLY	NO NTS OC	ON CENTER
COMM		)m)	POLE
CSFM	CALIFORNIA STATE FIRE MARSHALL	PA	PUBLIC ADDRESS
CTR	CENTER	PB PF	PULL BOX
(D)	DEMOLISH	PF	POWER FACTOR
DET	DETAIL.	PH	PHASE
DIM	DIMENSION	PNL	PANEL
DIST	DISTRIBUTION	PVC	POLYVINYL CHLORIDE
DP	DISTRIBUTION PANEL	(R)	PHASE PANEL POLYVINYL CHLORIDE EXISTING TO BE RELOCATED REQUIRED
DWG	DRAWING	REQD	REQUIRED
(E)	EXISTING	REQT(S)	REQUIREMENT(S)
ELEC	ELECTRICAL	RM	ROOM
EM	EMERGENCY	RSC	RIGID STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	SHT	SHEET
EOL	END OF LINE RESISTOR	STC	SIGNAL TERMINAL CABINET
EQP	EQUIPMENT	SW	SWITCH
FA	FIRE ALARM	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	TC	TERMINAL CABINET
(F)	FUTURE	TEL	TELEPHONE
FIN	FINISH	TYP	TYPICAL
FL	FLOOR	UON	UNLESS OTHERWISE NOTED
G, GND	GROUND	V	VOLT
HGT	HEIGHT	Ŵ	WATT, WIRE
HP	HORSEPOWER	WP	WEATHERPROOF
iC	INTERCOM	XFMR	TRANSFORMER
IDF	INTERMEDIATE DISTRIBUTION FRAME	# N; 2V35 N	EP NO VIEW TO NOTE SEE SEE SEE SEE SEE
1 540 1	tiationisticities representation in in incidentations in a contract to an incident		

#### CALIFORNIA CODES AND STANDARDS

- 1. 2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- 2. 2001 CALIFORNIA BUILDING CODE, VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR) (1997 UNIFORM
- BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS).
- 3. 2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
- 4. 2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 IAPMO UNIFORM
- MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS).
- 5. 2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 IAPMO UNIFORM PLUMBING
- CODE WITH 2001 CALIFORNIA AMENDMENTS).
- 2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).
- 7. 2001 CALIFORNIA ELEVATOR SAFTEY CONSTRUCTION CODE (PART 7, TITLE 24, CCR).
- 8. 2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) (2000 UNIFORM FIRE CODE WITH CALIFORNIA AMENDMENTS).
- 9. 2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
- 10. STATE FIRE MARSHAL REGULATIONS, PUBLIC SAFETY (TITLE 19, CCR).
- 11. 1999 NFPA 13 (THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS WITH CALIFORNIA AMENDMENTS).
- 12. 2000 NFPA 14 (INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEM).
- 13. 1995 NFPA 24 (INSTALLATION OF PRIVATE FIRE SERVICES MAINS AND THEIR APPURTENANCES).
- 14. 1999 NFPA 72 (NATIONAL FIRE ALARM CODE WITH CALIFORNIA AMMENDMENTS).

# OWNERSHIP OF INSTRUMENTS OF SERVICE

- 1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
- 2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES. AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW. TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

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- E2.1 SKYLINE BUILDING 1 DEMOLITION SECOND FLOOR PLAN
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## **GENERAL NOTES**

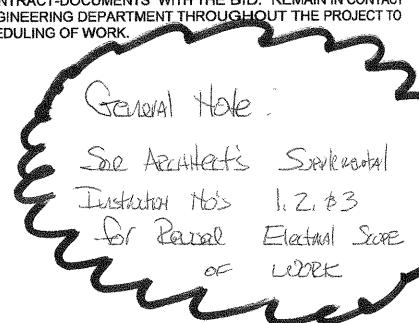
- 1. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- 2. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE
- 3. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- 4. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE. TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY
- 6. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

AND ALL CLAIMS RESULTING FROM THIS WORK.

- 7. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- 8. PROVIDE ALL REQUIRED "CUTTING, PATCHING, BACK FILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- 9. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- 10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING. CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT
- 11. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.
- 12. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.
- 13. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.
- 14. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHT FIXTURES. VERIFY CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- THE EXISTING DATA, TELEPHONE, AND CLOCK SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.

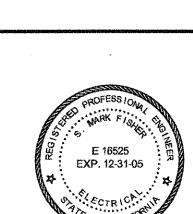
15. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING

- 16. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION
- 17. VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.
- 19. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.
- 20. SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 24, CBC SECTION 1632A.
- 21. PLANS SHALL BE APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" (DSA) PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO
- 22. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-16.
- 23. INCLUDE UTILITY COMPANY'S "CONTRACT-DOCUMENTS" WITH THE BID. REMAIN IN CONTACT WITH THE UTILITY COMPANY'S ENGINEERING DEPARTMENT THROUGHOUT THE PROJECT TO
- INSURE COORDINATION AND SCHEDULING OF WORK.



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CONSTRUCTION ISSUE

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CLIENT APPROVAL:

CHECKED BY: 2163.002 5 FEB. 2004