## **ELECTRICAL SPECIFICATIONS DIVISION 1600**

	13.0 EXPANSION JOINT			
1.1 THE COMPLETE INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS. CONSULT LANDLORD'S DESIGN CRITERIA.	13.1 EACH TIME ELECTRICAL SLIDING TYPE EXPANSION JC			
1.2 THE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONSIDERED ADDITIONAL TO ARCHITECT AND MECHANICAL ENGINEER'S SPECIFICATIONS. ANY DISCREPANCY OR CONTRADICTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.	14.0 FIXTURES AND LAMPS 14.1 COMPLETE LIGHTING PA INSTALLED. ELECTRICAL CON			
1.3 ARCHITECT'S GENERAL REQUIREMENTS ARE PART OF THIS CONTRACT. AND THEY SHALL BE APPLIED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS (ELECTRICAL, ETC).	SPECS AND EDSS (ENERGY D			
1.4 ONCE ONSITE GENERAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ANY CONDITIONS THAT MAY AFFECT HIS WORK IN ANY MANNER PRIOR TO START OF CONSTRUCTION. (MEASUREMENTS - PARTICULAR CONDITIONS, ETC) GENERAL CONTRACTOR SHALL NOTIFY TENANT REPRESENTATIVE AND ARCHITECT OF ANY SUCH CONDITIONS PRIOR TO COMMENCEMENT OF WORK.	15.1 ENGINEER CAN RELOCA THAN 10 FEET (3m), AND WRI			
1.5 GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY CHECKING AND ADJUSTMENTS TO COMPLY WITH THE INTENT OF SPECIFICATIONS.	15.2 CONFER WITH ALL OTH DUCTS, PIPES, ETC. AND WIT 16.0 EXISTING CONDITIONS			
1.6 THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF THE EQUIPMENT. EACH SUBCONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE INSTALLATION.	16.1 ELECTRICAL CONTRAC		NG OTHER TENANT SHAL	L BE D
1.7 GENERAL CONTRACTOR'S TENDER SHALL INCLUDE THE COST OF ALL NECESSARY PERMITS AND CERTIFICATES, ALL DRAWINGS APPROVAL COSTS AND ALL INSPECTION COSTS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.	WEEK-END). COORDINATE W		AND DISPOSE ANY UNUS	SED MA
1.8 EACH SUBCONTRACTOR SHALL COMPLETE THE WORK IN EVERY DETAIL. EVEN THOUGH NOT SHOWN ON DRAWINGS OR CALLED FOR IN THIS SPECIFICATION.	16.3 ANY NON REUSED MATE			
1.9 THE ELECTRICAL TRADE SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. THE TRADE SHALL ALSO PROVIDE ANY ITEMS AND/OR LABOR THAT ARE OBVIOUSLY NECESSARY OR REASONABLY IMPLIED TO COMPLETE ALL WORK.	16.4 ANY DAMAGED WALL, F SHALL MATCH EXISTING FINIS 17.0 COMMUNICATIONS		SHES SHALL BE REPAIRE	D BY G
1.10 ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH CURRENT EDITIONS AND AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA AND ALL LOCAL CODES ADOPTED BY THE LOCAL JURISDICTION HAVING	17.1 TENANT IS IN CHARGE	OR ANY COMMUNIC	ATIONS SYSTEMS.	
AUTHORITY. 1.11 ALL RUBBISH'S AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AT THE END OF EVERY WORKDAY. AT THE CONTRACT COMPLETION, ALL TOOLS AND EQUIPMENT SHALL BE REMOVED AND THE JOB SITE SHALL BE LEFT IN A CLEAN CONDITION	17.2 ELECTRICAL CONTRAC PLYWOOD 3/4" THICK, AND CO 17.3 ALL WIRING, INCLUDING CONTRACTOR, IN CHARGE O	NDUIT AS INDICATE	D ON DRAWINGS.	
2.0 GUARANTEE 2.1 EACH SUBCONTRACTOR SHALL GUARANTEE HIS WORK AND INSTALLATION REGARDING HIS CONTRACT. THE	18.0 FIRE ALARMS	O BE KEPT TENANT	'S FIRE ALARM CONTRAC	CTOR T
ELECTRICAL CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS OWN EXPENSE, ALL DEFECTS AND THIS DURING A TWELVE MONTHS PERIOD, STARTING AT THE PROVISIONAL ACCEPTANCE BY THE TENANT. AS LONG AS THE DEFECTS IS NOT DUE TO A BAD USE OR NORMAL WEAR.	<ul> <li>18.1 EXISTING FIRE ALARM TO BE KEPT. TENANT'S FIRE ALARM CONTRACTOR TO EQUIPMENT AT NO COST.</li> <li>18.2 ALL REQUIRED WORK RELATED TO LIFE SAFETY SYSTEMS SHALL BE DONE A MANUFACTURER'S FORCES TO PERFORM FINAL CONNECTIONS, MODIFICATIONS A</li> </ul>			
3.0 TAXES 3.1 EACH SUBCONTRACTOR SHALL PAY ALL APPLICABLE TAXES, FOR LABOR AND MATERIAL INCLUDED IN HIS TENDER	DEVICES IN THE SYSTEM PAN 18.3 ENSURE FULL COMPATI	ELS, ETC.		
4.0 TEMPORARY SERVICES	18.4 TENANT'S FIRE ALARM ( SYSTEMS FOR PROPER OPER	CONTRACTOR SHALL	L HAVE SYSTEM MANUFA	
4.1 ALL TEMPORARY LIGHTING (MIN. 200LUX WITH MH HALIDE FIXTURE) AND POWER DURING CONSTRUCTION SHALL BE BY GENERAL CONTRACTOR AFTER AGREEMENT WITH ELECTRICAL CONTRACTOR AND SHALL BE TAKEN FROM EXISTING PANEL SERVING THE SPACE, SUPPLY VOLTAGE AND AMPS AS REQUIRED.	19.0 COLOR CODE			
5.0 SHOP DRAWINGS	PHASE A	120/208V BLACK	120/240V HIGH LEG 3P 4W BLACK	
5.1 PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT SUBMIT TO ENGINEER FOR APPROVAL A MINIMUM OF TWO (2) COPIES OF SHOP DRAWINGS FOR EACH ITEM OF EQUIPMENT.	PHASE B PHASE C	RED BLUE	ORANGE BLUE	
6.0 ALTERNATE EQUIPMENT	NEUTRAL GROUND	WHITE GREEN	WHITE	
<ul><li>6.1 PROPOSAL SHALL BE BASED ON SPECIFIED EQUIPMENT AND MATERIAL.</li><li>6.2 PROPOSAL FOR ALTERNATE TO SPECIFICATION SHALL INCLUDE MANUFACTURER NAME, MODEL AND COST</li></ul>	20.0 SPECIAL NOTES	UNLER	<u>ONELIN</u>	
<ul> <li>6.3 COST OF ANY CHANGE REQUIRED TO OTHER TRADES WORK DUE TO SUBSTITUTION OF ALTERNATE EQUIPMENT, SHALL BE INCLUDED IN THE SUBCONTRACTOR'S PROPOSAL CALLING FOR THIS SUBSTITUTION. EVEN IF THESE CHANGES APPEAR AFTER THE DEMAND FOR SUBSTITUTION.</li> <li>6.4 ALTERNATE PROPOSALS WILL BE ACCEPTED OR REJECTED BEFORE CONTRACTS ARE AWARDED. NO CHANGES WILL BE ALLOWED AFTER THE CONTRACT IS SIGNED.</li> </ul>	20.1 ELECTRICAL CONTRAC OWNER FURNISHED RECESS APPROVED FLEX CONNECTIO FIXTURE INSTALLATION. AFTE BOXES INSIDE FIXTURE, PRO TO PROVIDE PULL STRING FF JACKS BY OWNER'S VENDOR	ED FLOOR BOXES A IN ASSEMBLY. LEAV ER FIXTURE INSTALL VIDE POWER CIRCU IOM TELEPHONE BO	ND OWNER FURNISHED F E FLEX CONNECTION AS ATION EC TO INSTALL PO IT FROM PANEL TO RECE ARD TO ALL FIXTURE DE	POKE-T SEMBL` OWER F PTACL SIGNAT
	20.2 ON ALL OUTLETS LOCA			TRADE
<ul> <li>7.0 IDENTIFICATION</li> <li>7.1 ALL ELECTRICAL EQUIPMENT (SWITCHES, PANELS, CIRCUITS ETC) MUST BE PROPERLY IDENTIFIED WITH LAMICOID NAME PLATES SCREWED ON PANELS AND HAVE A TYPED DIRECTORY AND INDICATE LOAD ON</li> </ul>	FLOOR WITH APPROPRIATE O TRENCHING OR CORE DRILLI	ONNECTORS. GC M NG.	UST OBTAIN WRITTEN AF	PROVA
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DING USE GALVANIZED STEEL ESE LOCATIONS.

ASE AGREEMENT), GC LS PER MANUFACTURER

, IF DISPLACEMENT IS LESS

WITH OTHER APPARATUS,

SINESS HOURS (NIGHT OR

NTRACTOR THOSE REPAIRS

ERMINAL BOARD, 24"x24"

ERFORMED BY A SPECIALIZED

E IF REQUIRED ANY

RA COST. RETAIN THE SYSTEM ISION OF NEW INTERFACING

D CERTIFY LIFE SAFETY

SURFACE MOUNTED J-BOXES, AS INDICATED AND PROVIDE D TAPED AS REQ'D UNTIL ES IN PRE-INSTALLED BLANK INECTION POWER SOURCE. EC CAT5E DATA CABLING AND RJ45 FOR ADDITIONAL INFORMATION.

ACH ALL CONDUITS TO THE E LANDLORD PRIOR TO ANY

LED IN COMMON BOXES. USE 1 QUIRED. BOXES SUPPLIED,

BSOLETE CONSECUTIVE TO ES, DISTRIBUTION EQUIPMENT, ELECTRICAL INSTALLATION.

NETWORK.

HE CONTINUITY OF THOSE

SED WITH SCREWS, TINNED TORS

	Ν	OTE: NOT ALL S	YMBOLS LISTED BELOW ARE SHOWN ON PLANS				
SWITCHING		POWER DISTRIBUTION DEVICES		GENERAL WIRING			
SB	SWITCH BANK		PANELBOARD SURFACE MOUNTED MAXIMUM 72" TO TOP OF OVERCURRENT PROTECTION	-	HOMERUN - CONDUIT SYSTEM TO PANEL AS NOTED ON DRAWINGS		
\$	SWITCH	Т	TRANSFORMER		CONDUIT SYSTEM UNDER FLOOR		
ф	DIMMER SWITCH		DISCONNECT SWITCH	o— —	CONDUIT UP		
00	OCCUPANCY SENSOR - CEILING MOUNTED	M	METER		TELEPHONE TERMINAL BOARD SEE DETAIL ON SHEET E4		
0\$	OCCUPANCY SENSOR - WALL MOUNTED	ф	DUPLEX RECEPTACLE - 20A 18" AFF UNO	0 00 0 0	JUNCTION BOX		
PC	PHOTOCELL - CEILING MOUNTED	<del>4</del>	QUADPLEX RECEPTACLE - 20A 18" AFF UNO		RECESSED FLOOR BOX		
LCP	LCP - LIGHTING CONTROL PANEL	фgғı	RECEPTACLE WITH GROUND FAULT INTERRUPTER	ABREVIATIONS			
INVER	MINI-INVERTER	фwр	WEATHERPROOF RECEPTACLE 18" AFF UNO	BOH CB	BACK OF HOUSE CIRCUIT BREAKER		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	Ø	SHOW WINDOW RECEPTACLE	DL EC	DAYLIGHT ELECTRICAL CONTRACTOR		
TAGS		J	JUNCTION BOX	EM GC	EMERGENCY GENERAL CONTRACTOR		
AA	DETAIL DESIGNATION: AA - DETAIL NUMBER	DATA / COMMUNICATION		IG JB	ISOLATED GROUND JUNCTION BOX (J-BOX)		
BB (X)	BB - SHEET NUMBER SHEET NOTE	<b>▼</b> xx	TELEPHONE / DATA - RJ45 JACK W/ CAT5e WIRES. CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING, CABLE IS BY OWNER.	JHA LL MLO	JURISDICTION HAVING AUTHORITY LANDLORD MAIN LUG ONLY		
AA	SECTION DESIGNATION: AA - DETAIL NUMBER	XX	OVERHEAD AP CABLING	MCB OR	MAIN CIRCUIT BREAKER ORANGE		
BB	BB - SHEET NUMBER	SECURITY / COMMUNICATION		SW TGC	SHOW WINDOW TENANT GENERAL CONTRACTOR		
		KP	ROUGH-IN FOR ADT KEY PAD @ 48"A.F.F.	WH	WHITE		
		T	THERMOSTAT				

A. FIELD VERIFY ALL CONDITIONS.

B. DESIGN DRAWINGS ARE SCHEMATIC. ONCE ONSITE GENERAL CONTRACTOR IS TO INSPECT EXISTING FIELD CONDITIONS. RFI SHALL BE SUBMITTED FOR ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

- THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER ONCE ONSITE FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN INTENT PRIOR TO COMMENCEMENT OF WORK.
- OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- THE INTENT OF THIS DESIGN SHALL BE INCLUDED IN THE RFI.
- F. PROVIDE ALL REQUIRED PERMITS. CONTRACTOR'S INSTALLATION SHALL CONFORM TO ALL LOCAL CODE REQUIREMENTS.

- REQUIRED FOR INSTALLATION OF NEW WORK.
- MECHANICAL. CONDUIT RUNS SHALL BE RUN THROUGH TRUSSES WHERE POSSIBLE.
- J. COORDINATE EXACT LOCATION OF DEVICES SERVING CASEWORK WITH FIXTURE CONTRACTOR.
- K. COORDINATE ALL LOW VOLTAGE CONDUIT AND ROUGH-IN REQUIREMENTS WITH LOW VOLTAGE CONTRACTORS.
- CONDUCTOR TERMINATION.
- M. INCLUDE A COPPER EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH NEC.
- N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.
- WIRE SHALL BE USED.
- BRANCH CIRCUITS ABOVE CEILINGS AND FOR FINAL FIXTURE CONNECTIONS. DO NOT USE TYPE MC EXPOSED UNLESS APPROVED BY LOCAL INSPECTOR AND JHA. ELECTRICAL CONTRACTOR TO VERIFY.
- COSTS SHALL BE INCLUDED IN BID.
- R. MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- TENANT'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN TO AVOID CONFLICTS. JUNCTION BOXES MAY BE PLACED ABOVE LAY-IN CEILINGS.
- T. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR, PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.
- V. PROVIDE ALL NECESSARY COMPONENTS TO MAKE A COMPLETE WORKING SYSTEM. VERIFY ROW LENGTHS, FEED POINT AND MOUNTING REQUIREMENTS PRIOR TO ORDERING.
- VERY IMPORTANT.
- EQUIPMENT. NEC 110.34(f).
- Y. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS. NEC 240.60B.
- Z. PROVIDE LOCK-ON DEVICE FOR CIRCUITS SUPPLYING EMERGENCY UNIT EQUIPMENT. NEC 700.18.
- AMPACITY OF THE SERVICE FEEDER(S) OR RATING OF THE SERVICE, PER NEC 220.40.

AB. ALL DEDICATED RECEPTACLES SHALL BE RATED TO NOT LESS THAN THE RATING OF THE BRANCH CIRCUIT SERVING THE RECEPTACLE. AC. SUPPORT VERTICAL CABLE RUNS PER NEC 300.19.

## SYMBOLS LEGEND

## **GENERAL ELECTRICAL NOTES**

D. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER

RFI SHALL BE SUBMITTED FOR ANY UNFORESEEN CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR VARIATIONS REQUIRED FOR ACCOMPLISHING

G. VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT. H. BECOME FAMILIAR WITH REQUIRED DEMOLITION WORK PRIOR TO BIDDING AND START OF WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DEMOLITION AS

COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND

SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C

0. ALL 20A BRANCH CIRCUITS BETWEEN 100' AND 150' IN LENGTH, #10 AWG COPPER WIRE SHALL BE USED. FOR ALL 20A BRANCH CIRCUITS OVER 150' IN LENGTH, #8 AWG COPPER

P. ALL 20A BRANCH CIRCUITS LESS THAN 100' IN LENGTH, SHALL BE #12 COPPER CONDUCTORS, #12 GND., 3/4" UNLESS NOTED OTHERWISE. TYPE MC CABLE MAY BE USED FOR

Q. CIRCUITING INDICATED ON PLAN IS DIAGRAMMATIC FOR CLARITY. CIRCUITING SHALL BE "THRU-WIRING" WHERE/WHEN POSSIBLE. MULTI-CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR FIELD CONDITIONS OR VOLTAGE DROP FACTORS MAY BE REQUIRED (FIXTURES SHALL BE MANUFACTURED TO ACCOMMODATE "THRU-WIRING"), AND RELATED

S. WHERE DRYWALL CEILINGS ARE USED, CONTRACTOR SHALL ARRANGE CIRCUITING SO THAT JUNCTION/BOXES ACCESS PANELS ARE NOT INSTALLED IN THESE DRYWALL CEILING AREAS. (THE USE OF JUNCTION BOXES IN THESE DRYWALL CEILINGS IS NOT PERMITTED, ARRANGE CIRCUITS TO AVOID THIS SITUATION). FIELD COORDINATE WITH

U. PLACEMENT OF ALL RECEPTACLES SHALL BE INTENTIONAL (I.E. CENTERED ON COLUMNS OR WALL FEATURES, OR TIGHT TO CORNER). IF RECEPTACLE IS NOT SHOWN IN A DESIRABLE LOCATION, FIELD VERIFY EXACT PLACEMENT OF RECEPTACLE WITH TENANT'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

W. TAKE ADEQUATE CARE TO CORRECTLY LOCATE ALL ELECTRICAL STUBOUTS, FLOOR BOXES, J-BOXES, TRACK, ETC. PRECISE LOCATIONS OF FLOOR OUTLETS AND J-BOXES IS

X. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL

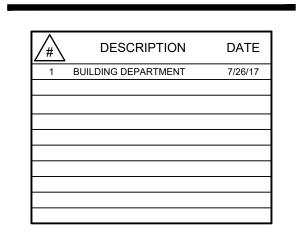
AA. ATTAIN EXISTING BUILDING LOAD INFORMATION AND VERIFY AMPACITY AND DEMAND FOR BUILDING TO ENSURE THAT ALL LOADS (EXISTING AND NEW) DO NOT EXCEED THE

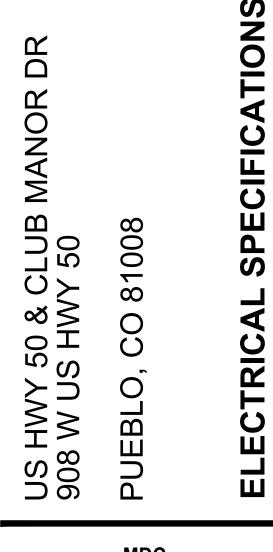
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State License #







DATE:	12/21/2017
SCALE:	NO SCALE
DRAWN BY:	XXX
PROJECT No.:	TMO364
SHEET:	

E70'