

OUTLET SYMBOL LEGEND	
SYMBOL	DESCRIPTION
^{+H} / _{ZZ##}	SINGLE RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. "H" INDICATES MOUNTING HEIGHT OTHER THAN 18". "ZZ / ##" INDICATES BRANCH CIRCUITING.
^{+H} / _{ZZ##}	DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION.
^{+H} / _{ZZ##}	DOUBLE DUPLEX (QUAD) RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION.
^{+H} / _{ZZ##}	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R, MOUNTED 18"A.F.F. UNLESS OTHERWISE NOTED. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION.
^{+H} / _{ZZ##}	RECEPTACLE MOUNTED 6" ABOVE COUNTER. REFER TO ABOVE FOR TYPE AND CIRCUITING INFORMATION.
^{+H} / _{ZZ##}	SPECIAL PURPOSE RECEPTACLE. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION. "X" INDICATES THE FOLLOWING: E 250 VOLT, 2 POLE, 3 WIRE, 30 AMP (NEMA L6-30R) PROVIDE 2#10,#10(EG)-3/4"C COORDINATE EXACT NEMA CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
^{ZZ##}	CEILING MOUNTED DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE GROUNDING TYPE, NEMA 5-20R. REFER TO ABOVE FOR AND CIRCUITING INFORMATION.
^X / _{ZZ##}	POWER AND TELECOM FLOOR BOX OR POKE-THROUGH DEVICE. REFER TO ABOVE FOR MOUNTING HEIGHT AND CIRCUITING INFORMATION. "X" INDICATES THE FOLLOWING: B NOT USED C NOT USED D FLUSH 6-GANG CAST IRON FLOOR BOX, HUBBELL #LCFBCA WITH TWO DUPLEX RECEPTACLES (AS DEFINED ABOVE), EITHER #LCFBCGYA COVER (FOR CARPET) OR #LCFBCGYT COVER (FOR TILE), TWO #LCFBP8 FACE PLATES AND FOUR #LCFBP26 FACE PLATES. PROVIDE THREE 1-1/4" CONDUITS (FOR TELECOM) BELOW FLOOR TO TV WALL AND EXTEND TO 12" ABOVE ACCESSIBLE CEILING ON THIS FLOOR. E FIRE RATED POKE-THROUGH WITH (4) RECEPTACLES - 125 VOLT, 20 AMP, AND (4) KEY STONE OPENINGS FOR TELECOMMUNICATION JACKS. HUBBELL SYSTEM ONE #S1PT4X4FIT WITH #S1SP4X4 SUBPLATE AND #S1CFGBL UNIVERSAL COVER. PROVIDE TWO 3/4" CONDUITS (FOR TELECOM) BELOW FLOOR TO NEAREST WALL AND EXTEND TO 12" ABOVE ACCESSIBLE CEILING ON THIS FLOOR.
	RECEPTACLES WITH ADDITIONAL SUBSCRIPT DESIGNATES TYPE OR SPECIFIC REQUIREMENTS AS FOLLOWS: G GROUND FAULT CIRCUIT INTERRUPTER TYPE E EMERGENCY RED IN COLOR WP WEATHERPROOF "WHILE-IN-USE" (HUBBELL #WVP26M) COVER
	JUNCTION BOX (SIZED AS REQUIRED PER N.E.C. ARTICLE 314).
	PULL BOX OR TAP BOX (SIZED AS REQUIRED PER N.E.C. ARTICLE 314).
_P 	WALL MOUNTED POWER OUTLET (4-11/16" SQUARE x 2-1/8" DEEP JUNCTION BOX) COMPLETE WITH SINGLE GANG DEVICE RING AND COVER PLATE (COLOR SELECTION BY ARCHITECT) TO ACCEPT FURNITURE WHIP. PROVIDE ALL NECESSARY APPURTENANCES INCLUDING WHIP IF REQUIRED AND MAKE FINAL CONNECTIONS TO SYSTEMS FURNITURE. MOUNT AT 8" A.F.F. UNLESS NOTED OTHERWISE.
_T 	WALL MOUNTED TELECOMMUNICATIONS JUNCTION BOX FOR CONNECTION TO SYSTEMS FURNITURE. JUNCTION BOX SHALL BE 4-11/16" SQUARE x 2-1/8" DEEP COMPLETE WITH SINGLE GANG DEVICE RING AND 1-1/4" CONDUIT WITH INSULATING BUSHING AND PULLSTRING STUBBED 12" INTO ACCESSIBLE CEILING SPACE. MOUNT AT 8" A.F.F. UNLESS NOTED OTHERWISE.
	PUSHBUTTON STATION
	TWO CHANNEL POWER POLE: HUBBELL WIRING DEVICES - KELLEMS CUSTOM POLE WITH HEIGHT AS REQUIRED TO EXTEND TO 4" ABOVE FINISHED CEILING, COLOR BY ARCHITECT AND KNOCK OUTS AS REQUIRED TO CONNECT TO SYSTEMS FURNITURE. COORDINATE EXACT LOCATION WITH FURNITURE SYSTEMS MANUFACTURER PRIOR TO ROUGH-IN.

ABBREVIATIONS					
AC	ABOVE COUNTER	(E)	EXISTING	PNL	PANEL
AFF	ABOVE FINISHED FLOOR	EF	EXHAUST FAN	PP	POWER PANEL
AFG	ABOVE FINISHED GRADE	EG	EQUIPMENT GROUND	RGS	RIGID GALVANIZED STEEL
AHU	AIR HANDLING UNIT	EL	EMERGENCY LIGHTING	(R)	RELOCATED
AST	ABOVEGROUND STORAGE TANK	EMT	ELECTRICAL METALLIC TUBING	(R&R)	REMOVE AND RELOCATE
ATS	AUTOMATIC TRANSFER SWITCH	EWG	ELECTRIC WATER COOLER	(REP)	REPLACE
BSI	BUILDING SYSTEM INTERFACE	FACP	FIRE ALARM CONTROL PANEL	RP	RECEPTACLE PANEL
C	CONDUIT	FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	SE	SERVICE ENTRANCE
CAC	CEILING MOUNTED CAMERA	GAP	GENSET ANNUNCIATOR PANEL	SU	STUB UP
CAW	WALL MOUNTED CAMERA	GFCI	GND FAULT CIRCUIT INTERRUPTER	SWBD	SWITCHBOARD
C.B.	CIRCUIT BREAKER	GND	GROUND	TP	TECHNOLOGY POWER PANEL
CKT	CIRCUIT	G.V.	GENSET VENDOR	UC	UNDER COUNTER
CP	CONTROL PANEL	HSP	HOUSE SERVICE PANEL	U.G.	UNDERGROUND
CON.	CONTRACTOR	LP	LIGHTING PANEL	UST	UNDERGROUND STORAGE TANK
CT	CURRENT TRANSFORMER	MCC	MOTOR CONTROL CENTER	UPS	UNINTERRUPTABLE POWER SUPPLY
(D&R)	DISCONNECT AND REMOVE	MDP	MAIN DISTRIBUTION PANEL	VP	VANDAL PROOF
DDC	DIRECT DIGITAL CONTROL	N.I.C.	NOT IN CONTRACT	WIU	WHILE IN USE
DFA	DOWN FROM ABOVE	(N)	NEW WORK	WP	WEATHERPROOF
DP	DISTRIBUTION PANEL	NL	NIGHT LIGHT		

LIGHTING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
^X / _y #	RECESSED LUMINAIRE. "X" INDICATES TYPE; "y" INDICATES SWITCHING; "H" BRANCH CIRCUITING. SEE LUMINAIRE SCHEDULE.
NL	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY PACK OR WIRED TO EMERGENCY CIRCUIT (LIFE SAFETY). "NL" DENOTES NIGHT LIGHT WITH 24/7 OPERATION. SEE LUMINAIRE SCHEDULE.
	RECESSED DOWN LIGHT OR WALL WASH. SEE LUMINAIRE SCHEDULE.
	LINEAR PENDANT MOUNTED LUMINAIRE. SEE LUMINAIRE SCHEDULE.
	LINEAR WALL MOUNTED LUMINAIRE. SEE LUMINAIRE SCHEDULE.
	ILLUMINATED EXIT SIGNAGE LUMINAIRE - CEILING MOUNTED. REFER TO PLANS FOR FACING AND CHEVRON CONFIGURATION. SEE LUMINAIRE SCHEDULE.
	ILLUMINATED EXIT SIGNAGE LUMINAIRE - WALL MOUNTED. REFER TO PLANS FOR FACING AND CHEVRON CONFIGURATION. SEE LUMINAIRE SCHEDULE.
\$X.y	SINGLE POLE, 120/277V, 20A TOGGLE SWITCH. "X" INDICATES THE FOLLOWING: 3 THREE WAY D 0-10V DIMMING - nLIGHT mPOD OR EQUIVALENT LV LOW VOLTAGE, RELAY CONTROL TYPE. REFER TO DETAILS ON SHEET E5.01 y LOWERCASE LETTER INDICATES CONTROL OF SPECIFIC LUMINAIRES.
	PHOTOCELL
	ASTRONOMICAL DIGITALLY CONTROLLED 4 ZONE LIGHTING CONTROL TIME SWITCH - TORK: 'DLC400BP' WITH PHOTOCELL: 'EPC2' AND TIMED OVERRIDE SWITCH: 'SSA200R-24'. COORDINATE INITIAL PROGRAMMING WITH OWNER. PROVIDE INITIAL PROGRAMMING AS REQUIRED.
	ELECTRICALLY HELD CONTACTOR. REFER TO WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

POWER & EQUIPMENT SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DENOTES BACKGROUND OR EXISTING TO REMAIN (E).
	DENOTES DEVICES, EQUIPMENT, ETC. EXISTING TO REMAIN (E).
	DENOTES NEW (N) OR RELOCATED (R) DEVICES, EQUIPMENT, ETC.
	DENOTES DEVICES, EQUIPMENT, ETC. TO BE DISCONNECTED AND REMOVED (D&R).
	DENOTES NEW (N) OR RELOCATED (R) CONDUIT, EQUIPMENT, ETC. UNDERGROUND OR BELOW GRADE.
	BRANCH CIRCUIT TURNING UP. BRANCH CIRCUIT TURNING DOWN. BRANCH CIRCUIT TURNING UP & DOWN.
	UNDERGROUND, UNDER FLOOR/SLAB DUCTBANK, DIRECT BURIED CABLE, CONDUIT/CONDUCTOR: UT = TELECOM; UE = ELECTRICAL
	HOME RUN. HASH MARKS INDICATE CONDUCTOR QUANTITY. HASH MARKS DEFINED AS SHOWN. "H" INDICATES SIZE OF CONDUCTORS OTHER THAN 12-AWG. ALL UNMARKED HOMERUNS TO CONTAIN 2-12 AWG & 1-12 AWG GND IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
ZZZ / #, #, #	BRANCH CIRCUITING. "ZZZ" INDICATES PANEL DESIGNATION. "#, #, #" INDICATES CIRCUIT NUMBER(S).
	480Y/277 VOLT, 3-PHASE, 4-WIRE ELECTRICAL DISTRIBUTION TYPE PANELBOARD.
	208Y/120 VOLT, 3-PHASE, 4-WIRE ELECTRICAL DISTRIBUTION TYPE PANELBOARD.
	480Y/277 VOLT, 3-PHASE, 4-WIRE, SURFACE MOUNTED ELECTRICAL PANELBOARD.
	208Y/120 VOLT, 3-PHASE, 4-WIRE, SURFACE MOUNTED ELECTRICAL PANELBOARD.
	DRY-TYPE DISTRIBUTION TRANSFORMER.
	MOTOR
	GENERATOR, GENSET.
\$m	FRACTIONAL HORSEPOWER MOTOR STARTER - 120 VOLT, 20 AMP, 1 POLE, PILOT LIGHT, UNLESS OTHERWISE NOTED.
AS JWP	NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH SIZE. "JWP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE
^{AF} / _{AS} JWP	FUSED DISCONNECT SWITCH. "AF" INDICATES FUSE SIZE. "AS" INDICATES SWITCH SIZE. "JWP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE
^{AT} / _{AF} JWP	ENCLOSED CIRCUIT BREAKER SWITCH. "AT" INDICATES CIRCUIT BREAKER TRIP RATING. "AF" INDICATES CIRCUIT BREAKER FRAME SIZE. "JWP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE
# WP	MAGNETIC MOTOR STARTER MOUNTED IN A NEMA ENCLOSURE. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE, "H" INDICATES STARTER SIZE.
^{AF} / _{AS} J#H, WP	COMBINATION STARTER & FUSED DISCONNECT SWITCH. "AF" INDICATES FUSE SIZE, "AS" INDICATES SWITCH SIZE, "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE, "H" INDICATES STARTER SIZE.
JWP	COMBINATION VFD STARTER AND DISCONNECT SWITCH. "WP" INDICATES WEATHERPROOF (NEMA 3R) ENCLOSURE.
EC	ELEVATOR CONTROL CABINET. SEE E-201 AND E-601.

GENERAL ELECTRICAL NOTES:

- ANY AND ALL "BUILDING STANDARDS" AND/OR "BUILDING" SPECIFICATIONS SHALL BE CONSIDERED AN INTEGRAL PART OF THESE DOCUMENTS AND THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A COPY OF THESE DOCUMENTS AND COMPLY WITH ALL REQUIREMENTS AND STANDARDS CONTAINED WITHIN.
- ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC, ARE INTENDED TO CONVEY THE SCOPE OF WORK, AND INDICATE GENERAL ARRANGEMENT OF LIGHTING FIXTURES, DEVICES, CONTROLS, ELECTRICAL FIXTURES, MOTORS, PANELBOARDS, EQUIPMENT, ETC. THE LOCATIONS OF ALL ITEMS SHOWN ON ELECTRICAL DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT EXPLICITLY FIXED BY DIMENSIONS ARE APPROXIMATE. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE PROJECT. ALL LOCATIONS OF WORK EXPOSED TO VIEW ARE SUBJECT TO APPROVAL OF THE ARCHITECT PRIOR TO ROUGH-INS.
- THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUITE FIELD CONDITIONS.
- THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND HIS PROPOSAL SHALL INCLUDE ALL CONTINGENCIES NECESSARY FOR THE COMPLETION OF HIS WORK REGARDING SUCH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT ALL NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AND CONDITIONS IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/OWNERS REPRESENTATIVE PRIOR TO ANY ROUGH-INS, FABRICATIONS, OR PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATED TO THE AREA.
- ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE BROUGHT SAID DISCREPANCIES TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PERIOD OR OF ANY ERROR ON THE CONTRACTOR'S PART.
- THERE SHALL BE NO SUBSTITUTIONS UNLESS THE CONTRACTOR HAS OBTAINED WRITTEN APPROVAL FROM THE OWNER AFTER HAVING SUBMITTED AN ALTERNATIVE PROPOSAL COMPLETE WITH A DESCRIPTION OF DEVIATION FROM THE SPECIFICATIONS AND A STATEMENT OF BENEFITS TO BE DERIVED SHOULD SUCH A PROPOSED SUBSTITUTE BE ACCEPTED.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT, PROFESSIONAL AND WORKMANLIKE MANNER, RECTILINEAR TO FINISHES AND BUILDING STRUCTURE.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE, OSHA REQUIREMENTS, AND LOCAL REQUIREMENTS, ALL AS INTERPRETED BY THOSE HAVING JURISDICTION.
- REFER TO ARCHITECTURAL ELEVATIONS TO DERIVE EXACT LOCATIONS OF ALL RECEPTACLES, OUTLETS/JACKS, SWITCHES, WALL AND PENDANT/CABLE MOUNTED LUMINAIRES, ETC. LUMINAIRES AND CEILING MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- BEFORE DOING ANY WORK WHICH MIGHT ENTAIL A FULL OR PARTIAL SHUTDOWN, THE ELECTRICAL CONTRACTOR SHALL INFORM THE OWNER SO THAT A SCHEDULED SHUTDOWN ARRANGEMENT CAN BE MADE, TAKING EVERY PRECAUTION THAT THE ELECTRICAL SYSTEM IS OPERATING SATISFACTORILY.
- THE ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES THAT ARE REQUIRED BY THE APPLICABLE LOCAL AND STATE LAWS.
- CONDUIT HOME RUNS SHOWN ON THE DRAWING WITH MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. THIS CONTRACTOR SHALL NOT INSTALL MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS NATIONAL ELECTRIC CODE (N.E.C), ARTICLE 310.15 DERATING FACTORS ARE APPLIED.
- A CONTINUOUS CONDUIT SHALL NOT BE CONSTRUED TO SATISFY THE REQUIREMENTS FOR AN EQUIPMENT GROUNDING SYSTEM. A SEPARATE EQUIPMENT GROUND WIRE SHALL BE PROVIDED INTERCONNECTING ALL EXPOSED CONDUCTIVE EQUIPMENT, TO THE COMMON GROUND BUS USING APPROPRIATE GROUND FITTINGS. EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.122. THE EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN WITHIN THE SAME RACEWAY AS THE PHASE CONDUCTOR.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ACCEPTABLE CONDUIT TYPES/LOCATIONS. ALL CONDUIT SIZES ON THE DRAWINGS ARE BASED ON THE LATEST EDITION OF THE N.E.C. CONDUIT FILL TABLES FOR ELECTRICAL METALLIC TUBING (E.M.T). CONDUIT SIZES SHALL BE REVISED TO THE SIZE REQUIRED, RELATIVE TO THE ACTUAL CONDUIT TYPE TO BE INSTALLED.
- ALL COMPONENTS SHOWN ON THE RISER/ONE-LINE DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- IT IS NOT INTENDED THAT THE PLANS INDICATE ALL OBSTRUCTIONS, NECESSARY BENDS, OFFSETS, AND PULL BOXES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO N.E.C. REQUIREMENTS, THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AS REQUIRED.
- IT IS NOT INTENDED THAT THE PLANS INDICATE ALL CONDUIT ROUTES, PULL BOXES, JUNCTION BOXES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL CONDUIT ROUTING, QUANTITY AND LOCATION OF PULL BOXES WITHIN ACCESSIBLE LOCATIONS.
- PROVIDE SCREW-COVER PULL BOXES IN CONDUIT RUNS AS REQUIRED TO LIMIT THE NUMBER OF BENDS TO NO MORE THAN FOUR (4) 90° OR 360° TOTAL. SIZE PULL BOXES IN ACCORDANCE WITH NEC, ARTICLE 314.28. DOCUMENT ON RECORD DRAWINGS, SIZE AND LOCATION OF PULL BOXES USED IN FEEDER CONDUIT RUNS.
- WHERE MULTIPLE DEVICES OF THE SAME TYPE/STYLE ARE SHOWN NEXT TO EACH OTHER, GANG INTO A SINGLE COVER PLATE.
- ALL RACEWAYS RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH APPROPRIATE EXPANSION FITTINGS.
- IDENTIFY WITH LEGIBLE AND DURABLE MARKING, EACH DISCONNECTING MEANS INDICATING ITS PURPOSE.
- ALL RECEPTACLES, SWITCHES AND DEVICES SHALL HAVE PANEL AND CIRCUIT NUMBER IDENTIFY WITH LEGIBLE AND DURABLE MARKING ON COVER PLATE. OWNER WILL INDICATE IF MARKINGS ARE ON THE FRONT OR BACK OF COVER.
- ALL LABOR AND MATERIAL FURNISHED BY THE CONTRACTOR AS PART OF THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTS WHICH APPEAR WITHIN THE GUARANTEE PERIOD SHALL BE PROMPTLY REPAIRED OR REPLACED AT THE OWNER'S DISCRETION, WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL EQUIPMENT GROUNDS SHALL BE TERMINATED WITH COMPRESSION FITTINGS AND STAINLESS STEEL BOLTS OR IN PANEL GROUND BAR.
- BEFORE DRILLING ANY HOLES IN WALLS OR FLOORS THE AREA MUST BE CHECKED FOR EXISTING EMBEDDED CONDUITS AND WIRE. IF ANY EXISTING CONDUITS OR WIRING ARE DAMAGED BY THIS CONTRACTOR IT IS THIS CONTRACTORS RESPONSIBILITY TO MAKE ALL REPAIRS TO CONDUITS, WIRE, FLOORS AND BUILDING FINISHES IN KIND AT NO COST TO OWNER.
- PROVIDE UL LISTED FIRE STOP ASSEMBLY AT ALL NEW AND EXISTING PENETRATIONS IN FIRE RATED STRUCTURES.

GENERAL GROUNDING NOTES:

- SINGLE PHASE RECEPTACLE OUTLETS USED BY THE WORKMEN SHALL BE PROTECTED BY A "GROUND FAULT INTERRUPTER".

OCCUPANCY SENSOR SYMBOL LEGEND			
SYMBOL	TYPE	COVERAGE	DESCRIPTION
DT	DUAL TECHNOLOGY	UP TO 1000 SQFT	ACUITY CONTROLS: nCM, OR EQUAL BY WATTSTOPPER, OR SENSOR SWITCH.



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Revision Schedule	
#	DATE DESCRIPTION

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E0.01

DIVISION 26 SPECIFICATIONS:

A. GENERAL

1. REQUIREMENTS SPECIFIED IN DIVISION 1, INSTRUCTIONS TO BIDDERS, SUPPLEMENTAL GENERAL CONDITIONS, SPECIAL CONDITIONS, ADDENDA, ALTERNATES, CONTRACT AND PROPOSAL, ALONG WITH THESE SPECIFICATIONS AND ALL ITS SECTIONS, COMPRISE THE CONTRACT DOCUMENTS FOR THE ELECTRICAL CONTRACT. DRAWINGS AND ALL THEIR REVISIONS UP TO THE BID SUBMITTAL DATE BECOME A BINDING PART OF THE CONTRACT, ALONG WITH THESE SPECIFICATIONS AS THOUGH THEY WERE ONE, AND ANYTHING IMPLIED BY THE SPECIFICATIONS SHALL BE INTERPRETED AS ALSO IMPLIED BY THE DRAWINGS AND VICE VERSA. PROVIDE NECESSARY ITEMS FOR A COMPLETE INSTALLATION OF ALL ELECTRICALLY OPERATED EQUIPMENT LISTED IN THE SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS.
2. THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, TECHNOLOGY AND EQUIPMENT DRAWINGS AND SPECIFICATIONS ARE INCORPORATED INTO, AND BECOME A PART OF THIS SPECIFICATION. THIS CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS CONTAINED THEREIN. THE SUBMISSION OF HIS BID SHALL INDICATE SUCH KNOWLEDGE.
3. ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC, ARE INTENDED TO CONVEY THE SCOPE OF WORK, AND INDICATE GENERAL ARRANGEMENT OF LIGHTING FIXTURES, DEVICES, CONTROLS, ELECTRICAL FIXTURES, MOTORS, PANELBOARDS, EQUIPMENT, ETC. THE LOCATIONS OF ALL ITEMS SHOWN ON ELECTRICAL DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT EXPLICITLY FIXED BY DIMENSIONS ARE APPROXIMATE. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE PROJECT. ALL LOCATIONS OF WORK EXPOSED TO VIEW ARE SUBJECT TO APPROVAL OF THE ARCHITECT PRIOR TO ROUGH-INS.
4. THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUITE FIELD CONDITIONS.
5. UNTIL THE TIME OF INSTALLATION, THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE CONTRACT.
6. THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS, MAKE DEVIATIONS ONLY WHERE NECESSARY TO AVOID INTERFERENCE. CHECK ALL EQUIPMENT SIZES AGAINST AVAILABLE SPACE PRIOR TO SHIPMENT TO AVOID INTERFERENCE.
8. EXAMINE THE WORK OF OTHER TRADES INsofar AS THEIR WORK COMES IN CONTACT WITH OR IS COVERED BY THIS WORK IN NO CASE ATTACH TO, OR FINISH AGAINST ANY DEFECTIVE WORK OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.
9. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CHARACTERISTICS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND HORSEPOWER AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT, UNLESS FURNISHED INTEGRAL WITH EQUIPMENT PACKAGE.
10. IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE ELECTRICAL JOB, ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE JOB.

B. VISIT TO THE SITE

1. THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. THE SUBMISSION OF HIS PROPOSAL SHALL INDICATE SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT SHALL BE MADE ON CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.

C. CODE, PERMITS, AND FEES

1. INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE, AND PUBLIC UTILITIES, AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
2. COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS BUT NOT IN CONFLICT WITH CODE REQUIREMENTS.
3. SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTIONS INCIDENTAL TO THIS WORK, AS REQUIRED BY ALL FOREGOING AUTHORITIES. BE RESPONSIBLE FOR PAYMENTS TO ALL PUBLIC UTILITIES FOR WORK PERFORMED BY THEM IN CONNECTION WITH PROVISION OF SERVICE. CONNECTIONS REQUIRED UNDER THIS DIVISION OF SPECIFICATIONS. TURN OVER CERTIFICATES OF APPROVAL TO THE CONSTRUCTION MANAGER AND/OR OWNER PROMPTLY WHEN RECEIVED, AND BEFORE PAYMENT IS MADE FOR THE WORK. DELIVER ALL CERTIFICATES TO ARCHITECT IN DUPLICATE.
4. PROVISIONS OF THE LATEST REVISIONS TO THE FOLLOWING CODES AND STANDARDS SHALL BE FOLLOWED WHERE APPLICABLE:
 - a. OHIO ADOPTED STATE BUILDING CODES (OSBC)
 - b. CITY OF CLEVELAND BUILDING CODES
 - c. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
 - d. NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE
 - e. NFPA 101 - LIFE SAFETY CODE
 - f. NFPA 110 - STANDARD FOR EMERGENCY AND STAND-BY POWER SYSTEMS
 - g. TIA/EIA - 568, 569, AND J-STD-607
 - h. AMERICANS WITH DISABILITIES ACT (ADA)
 - i. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
 - j. ASHRAE 90.1 - ENERGY STANDARD FOR BUILDINGS

D. SHOP DRAWINGS SUBMITTALS

1. THE ELECTRICAL CONTRACTOR SHALL SUBMIT ONE (1) ELECTRONIC SET OF SHOP DRAWINGS. THE SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT USING THE INDICATED NUMBERING SYSTEM AND TITLES, SHALL BE SUBMITTED THROUGH THE ARCHITECT TO THE ENGINEER AND THEN RESUBMITTED FOR FINAL APPROVAL IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:
 - a. PANELBOARDS
 - b. LIGHTING FIXTURES
 - c. LIGHTING CONTROL DEVICES
2. ALL SUBMITTED SHOP DRAWINGS (MANUFACTURERS' EQUIPMENT DESCRIPTIVE SHEETS OR VENDORS' PREPARED DRAWINGS) SHALL HAVE THE GENERAL CONTRACTOR'S OR SUBCONTRACTOR'S 'STAMP OF APPROVAL' INDICATING THAT THE ITEM SUBMITTED IS AS CALLED FOR ON THE PLANS AND SPECIFICATIONS, IS APPROVED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR, THE DATE OF APPROVAL AND INITIALED BY THE PERSON APPROVING THE SUBMITTAL AND THE NAME OF THE COMPANY SUBMITTING SAID EQUIPMENT FOR APPROVAL.
3. EVERY EFFORT SHALL BE MADE, IN CHECKING THE SHOP DRAWINGS, TO DETECT AND CORRECT ALL ERRORS, OMISSIONS AND INACCURACIES. FAILURE TO DO THIS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. SUBMITTALS ARE NOT REQUESTED FOR ALL PRODUCTS COVERED IN THE SPECIFICATIONS. UN-REQUESTED SUBMITTALS WILL NOT BE PROCESSED OR REVIEWED. FAX OR PHOTO COPIES ARE NOT ALLOWED. SUBMITTALS MUST BE ON ORIGINAL MANUFACTURER PRINTED STOCK.
5. NON-REQUIREMENT OF SUBMITTALS IS NOT TO BE CONSTRUED AS AN ALLOWANCE FOR SUBSTITUTIONS AND DOES NOT RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. ANY DEVIATION FROM SPECIFIED ITEMS IS CONSIDERED A SUBSTITUTION. IF THE CONTRACTOR DESIRES TO USE OTHER THAN SPECIFIED ITEMS, THEN A FORMAL REQUEST FOR SUBSTITUTION MUST BE SUBMITTED PRIOR TO BID DATE, IN ACCORDANCE WITH THE METHODS AND TIMES INDICATED IN THESE SPECIFICATIONS.

E. OPERATION AND MAINTENANCE MANUALS

1. ALL DESCRIPTIVE LITERATURE FOR O&M MANUALS SHALL BE SUBMITTED IN A THREE (3) HOLE BROCHURE WITH A COVER IDENTIFYING THE FOLLOWING:
 - a. NAME OF THE JOB.
 - b. LOCATION OF THE JOB, ADDRESS, CITY AND STATE.
 - c. NAME AND ADDRESS OF THE COMPANY SUBMITTING THE BROCHURES.
 - d. DATE OF THE SUBMITTAL.

F. AS-BUILT DRAWINGS

1. SUBMIT TO THE ARCHITECT ONE SET OF RED LINED ELECTRICAL DRAWINGS SHOWING THE AS-BUILT CONDITIONS.

G. STANDARDS AND SUBSTITUTIONS

1. THE BASIS OF DESIGN IS BASED UPON THE FIRST MANUFACTURER LISTED OR CALLED OUT IN PANEL SCHEDULES, FIXTURE SCHEDULES, ETC. WHERE OTHER MANUFACTURERS ARE CHOSEN AND ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH CHANGES REQUIRED FROM THE BASIS OF DESIGN. THIS INCLUDES ALL ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION INCLUDING COST OF ALL ALLIED TRADES INVOLVED.
2. WHEREVER THE WORDS 'APPROVED BY;', 'APPROVED EQUAL', 'AS DIRECTED' OR SIMILAR PHRASES ARE USED IN THE FOLLOWING SPECIFICATIONS, THEY SHALL BE UNDERSTOOD TO REFER TO THE OWNER AS THE APPROVING AGENCY. THE NAME OR MAKE OF ANY EQUIPMENT OR MATERIALS NAMED IN THIS SPECIFICATION (WHETHER OR NOT THE WORDS 'OR APPROVED EQUAL' ARE USED) SHALL BE KNOWN AS THE 'STANDARD'.
3. THESE SPECIFICATIONS ESTABLISH QUALITY STANDARD OF MATERIALS AND EQUIPMENT TO BE PROVIDED. SPECIFIC ITEMS ARE IDENTIFIED BY MANUFACTURER, TRADE NAME OR CATALOG DESIGNATION. THIS CONTRACTOR SHALL SUBMIT HIS BASE BID PRICE BASED UPON STANDARD SPECIFIED EQUIPMENT DESCRIBED HEREIN AND AS DETAILED ON DRAWINGS AND ASSOCIATED CONTRACT DOCUMENTS. THESE SPECIFICATIONS ARE NOT TO BE CONSIDERED PROPRIETARY. THE CONTRACTOR MAY SUBMIT INFORMATION ON MATERIALS AND MANUFACTURERS (OTHER THAN THOSE LISTED) FOR REVIEW BY THE ARCHITECT AND ENGINEER NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. IN ADDITION, SAMPLES OF PROPOSED EQUIPMENT MAY BE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. MANUFACTURERS OF PRODUCTS ACCEPTED BY THE ARCHITECT AND ENGINEER WILL BE LISTED IN AN ADDENDUM TO THE SPECIFICATIONS AS AN ACCEPTABLE SUBSTITUTION EQUIPMENT ACCEPTED AS DETAILED BELOW AND SHALL BE SHOWN AS A SEPARATE ADD OR DEDUCT PRICE TO BE FACTORED INTO THE BASE BID PRICE BY THE ARCHITECT AND OWNER IF ACCEPTED.
4. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID, BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. FAILURE BY THIS CONTRACTOR TO SUBMIT THE REQUISITE DOCUMENTATION DETAILED ABOVE SHALL BE UNDERSTOOD BY THE ARCHITECT AND ENGINEER TO INDICATE THAT SUBSTITUTE EQUIPMENT WILL NOT BE PRESENTED BY THE CONTRACTOR FOR CONSIDERATION. SUCH SUBSTITUTIONS WILL NOT BE CONSIDERED AFTER THE BID OPENING DATE AND DELAY OF PROJECT WILL NOT BE PERMITTED FOR FURTHER INSPECTION AND EVALUATION AFTER THIS DATE.
5. WHERE SUCH SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS INDICATED ON THE DRAWINGS, INCLUDE ALL ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION INCLUDING COST OF ALL ALLIED TRADES INVOLVED.
6. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE SPECIFIED AND PROPOSED SUBSTITUTE ITEMS.
7. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE QUALITY OF THE MATERIAL AND EQUIPMENT TO BE PROVIDED.

H. INTERFERENCES

1. BEFORE THE INSTALLATION OF ANY ITEM BEGINS, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASCERTAIN THAT IT DOES NOT INTERFERE WITH CLEARANCES FOR THE ERECTION OF FINISH BEAMS, COLUMNS, PILASTERS, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF ANY INTERFERENCE IS INSTALLED, THE DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, MAKE CHANGES IN HIS WORK AS DIRECTED BY THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
2. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OF THE OTHER CONTRACTORS AS SOON AS THEY ARE DISCOVERED. THE ARCHITECT SHALL DETERMINE WHICH EQUIPMENT WILL BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST. HIS DECISION WILL BE FINAL.

I. QUALITY ASSURANCE

1. ALL PRODUCTS SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED. WHERE MATERIALS, EQUIPMENT, APPARATUS OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE OF CATALOG NUMBER, SUCH DESIGNATION SHALL ESTABLISH THE STANDARDS OF THE DESIRED QUALITY AND STYLE. IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY OF MATERIALS AND EQUIPMENT INSTALLED.
2. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BEAR THE UL OR CUL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH TYPES OF MATERIAL AND EQUIPMENT.

J. EXECUTION

1. THE ELECTRICAL WORK FOR CONSTRUCTION PURPOSED SHALL CONFORM TO ALL FEDERAL (OSHA), STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC.
2. CHECK THE ARCHITECTURAL, HVAC, PLUMBING, FIRE PROTECTION AND TECHNOLOGY SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.
3. EQUIPMENT CONNECTIONS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSHBUTTON STATIONS MUST BE FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, AS INDICATED ON THE CONTRACT DRAWINGS.
4. ALL CUTTING, PATCHING, EXCAVATING, BACKFILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE SLEEVABILITY OF PROVIDING THE ELEVATIONS, CHANGES AND ORIGINATIONS FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE CORE-DRILLED. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS, FLOORS OR CEILINGS.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK, COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

L. WORK INCLUDES

1. INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK SHOWN. ITEMS OMITTED, BUT NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE, SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.
2. IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ETC. ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TIME OF ROUGH-IN. WITHOUT ADDITIONAL COST TO THE OWNER. CHANGES IN LOCATION OF OUTLETS OR EQUIPMENT NECESSITATED BY INTERFERENCE WITH THE WORK OF OTHER TRADES SHALL BE MADE ONLY WITH THE CONSENT OF THE ARCHITECT AND ENGINEER OR OWNER'S REPRESENTATIVE, AND AT NO ADDITIONAL COST.

3. AS USED IN THIS SPECIFICATION, "PROVIDE" MEANS "FURNISH AND INSTALL", "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT", AND "INSTALL" MEANS "TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY FOR PROPER INSTALLATION PER CODES AND MANUFACTURERS REQUIREMENTS, TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT."

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNPACKING AND PLACEMENT TO INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

- a. COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEM INCLUDING ALL PANELS, AND FEEDERS.
- b. COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
- c. COMPLETE POWER WIRING FOR ALL PLUMBING SYSTEM, HEATING EQUIPMENT, VENTILATING AND EXHAUST EQUIPMENT.
- d. COMPLETE LIGHTING FIXTURE INSTALLATION, INCLUDING ALL LED, INCANDESCENT, FLUORESCENT AND HID LAMPS.
- e. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
- f. WIRING DEVICES.
- g. GROUNDING OF THE ELECTRICAL SYSTEM.
- h. OUTDOOR LIGHTING AND CONTROLS.
- i. ELECTRIC SERVICES.

M. PRODUCT DELIVERY, STORAGE, AND HANDLING

1. DELIVER PRODUCTS TO THE PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, COMPLIANCE LABELS AND SIMILAR INFORMATION NEEDED FOR IDENTIFICATION. MATERIALS MUST BE ADEQUATELY PACKAGED OR PROTECTED TO PREVENT DETERIORATION DURING SHIPMENT, STORAGE AND HANDLING.
2. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE DELIVERY AND SAFE STORAGE OF HIS MATERIALS AND EQUIPMENT IN CONNECTION WITH THE WORK OF OTHER TRADES. MATERIALS AND EQUIPMENT SHALL BE DELIVERED AT SUCH STAGES OF THE WORK AS WILL EXPEDITE THE WORK AS A WHOLE, AND SHALL BE MARKED AND STORED IN SUCH A WAY AS TO BE EASILY CHECKED AND INSPECTED. THE ARRIVAL AND PLACING OF LARGE EQUIPMENT ITEMS SHALL BE SCHEDULED EARLY ENOUGH TO PERMIT ENTRY AND SETTING WHEN THERE IS NO RESTRICTION OR PROBLEM DUE TO SIZE AND WEIGHT.
3. MATERIALS SHALL BE STORED TO PROTECT THEM FROM INJURY PRIOR TO INSTALLATION. MATERIAL SHOULD NOT BE STORED DIRECTLY ON THE GROUND OR FLOOR AND SHALL BE KEPT AS CLEAN AND DRY AS POSSIBLE AND FREE FROM DAMAGE OR DETERIORATING ELEMENTS.
4. IN GENERAL, DO NOT DELIVER ITEMS OF ELECTRICAL EQUIPMENT TO THE PROJECT SUBSTANTIALLY BEFORE THE TIME OF INSTALLATION. LIMIT EACH SHIPMENT OF BULK AND MULTIPLE-USE MATERIALS TO THE QUANTITIES NEEDED FOR INSTALLATION WITHIN 3 WEEKS OF RECEIPT.

N. PROTECTION OF WORK AND PROPERTY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING WORK, PROPERTY, AND FACILITIES AGAINST DAMAGE, BOTH HIS OWN AS WELL AS OTHERS, WITH WHICH HE MAY COME INTO CONTACT IN THE PERFORMANCE OF HIS WORK.
2. STORED MATERIALS SHALL BE PROTECTED AGAINST DAMAGE FROM WEATHER. PIPE AND DUCT OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS DURING INSTALLATION. ALL FIXTURES AND EQUIPMENT SHALL BE COVERED AND PROTECTED AGAINST DAMAGE. ANY MATERIALS OR EQUIPMENT DAMAGED AT ANY STAGE IN THE CONSTRUCTION SHALL BE REPLACED OR REPAIRED AND AT THE FINAL COMPLETION, ALL WORK SHALL BE IN A CLEAN, UNBLEMISHED CONDITION.
3. FURNISH INFORMATION TO GENERAL CONTRACTOR AS TO SIZE AND LOCATION OF ALL BUILT-IN OPENINGS REQUIRED. DO NOT CUT, REMOVE OR PIERCE GENERAL OR MECHANICAL INSULATION; FIRE RATED WALLS OR CEILINGS; OR STEEL WORK; WITHOUT PRIOR PERMISSION AND INSTRUCTION.

O. CUTTING AND PATCHING

1. GENERAL: ALL CUTTING AND PATCHING FOR THE INSTALLATION OF THIS BRANCH OF THE WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
2. PERFORM CUTTING AND PATCHING IN ACCORDANCE WITH DIVISION 1 SECTION "PROCEDURES, SEPARATE PRIMES." IN ADDITION TO THE REQUIREMENTS SPECIFIED IN DIVISION 1, PERFORM CUTTING, FITTING AND PATCHING OF MECHANICAL EQUIPMENT AND MATERIALS REQUIRED TO:
 - a. INSTALL NEW WORK.
 - b. UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL-TIMED WORK.
 - c. REMOVE AND REPLACE DEFECTIVE WORK.
 - d. REMOVE AND REPLACE WORK NOT CONFORMING TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 - e. INSTALL EQUIPMENT AND MATERIALS IN EXISTING STRUCTURE.
 - f. UPON WRITTEN INSTRUCTIONS FROM THE ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ENGINEER OBSERVATION OF CONCEALED WORK.
 - g. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING BUT NOT LIMITED TO REMOVAL OF CONDUITS AND CONDUCTORS, JUNCTION BOXES, LUMINAIRES AND TRIM, AND OTHER ELECTRICAL ITEMS MADE OBSOLETE BY THE NEW WORK.
3. PROTECTION OF INSTALLED WORK: DURING CUTTING AND PATCHING OPERATIONS, PROTECT ADJACENT INSTALLATIONS.
4. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
5. ALL OPENINGS REQUIRED FOR THIS BRANCH OF WORK SHALL BE ACCOMPLISHED IN TIME TO BE INCORPORATED IN, AND BE COMPATIBLE WITH THE CONSTRUCTION PROGRAM, OTHERWISE THIS CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CHANGES MADE NECESSARY FOR HIS FAILURE TO DO SO. PIPE HOLES IN FLOORS AND WALLS SHALL BE CORE DRILLED.
6. PATCH EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND EXPERIENCED INSTALLERS. FOR INSTALLERS' QUALIFICATIONS, REFER TO THE MATERIALS AND METHODS REQUIRED FOR THE SURFACE AND BUILDING COMPONENTS BEING PATCHED.

P. TEMPORARY SERVICE

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND REMOVE AS REQUIRED ALL TEMPORARY ELECTRIC SERVICES AS WELL AS TEMPORARY POWER AND LIGHTING IN ALL AREAS AND INDIVIDUAL ROOMS WHEN NEEDED BY THE INDIVIDUAL TRADES IN THE PERFORMANCE OF THEIR WORK. THIS CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY (20) FOOT CANDLES OF ILLUMINATION FOR TEMPORARY LIGHTING. ANY ADDITIONAL LIGHTING REQUIRED BY INDIVIDUAL TRADES SHALL BE PROVIDED BY THE INDIVIDUAL TRADES INCLUDING POWER FOR THE LIGHTING. THE ELECTRICAL WORK FOR CONSTRUCTION PURPOSES SHALL CONFORM TO ALL FEDERAL (OSHA), STATE, SPECIFIC SAFETY REQUIREMENTS, AS WELL AS THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND NATIONAL ELECTRICAL SAFETY CODE. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED APPLICATIONS, PERMITS AND INSPECTIONS PERTAINING TO THIS WORK. THIS COST SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE.
2. NEW LIGHT FIXTURES SHALL NOT BE USED FOR TEMPORARY LIGHTING.

Q. TESTING AND PLACING IN SERVICE

1. ANY MATERIAL OR EQUIPMENT FAILING A TEST SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
2. TESTS SHALL INCLUDE THE FOLLOWING:
 - a. MEASURE THE LOAD ON EACH PHASE OF THE MAIN SERVICE AND EACH PHASE OF EVERY FEEDER UNDER FULL LOAD CONDITIONS.
 - b. MEASURE THE NO-LOAD AND FULL-LOAD VOLTAGES (PHASE TO PHASE, PHASE TO NEUTRAL AND PHASE TO GROUND FOR EACH PHASE OF EACH SERVICE, OF EACH SEPARATELY DERIVED SYSTEM, AND AT EACH PANELBOARD).
 - c. MEASURE THE GROUND RESISTANCE OF THE MAIN SERVICE GROUNDING ELECTRODE AND THE GROUND RESISTANCE OF EACH SEPARATELY DERIVED SYSTEMS GROUNDING ELECTRODE.

R. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEM

1. BEFORE FINAL PAYMENT, DEMONSTRATE TO THE OWNER'S SATISFACTION THE PROPER OPERATION OF EACH OF THE SYSTEMS COMPRISING THIS CONTRACT.
2. INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL ELECTRICAL EQUIPMENT AND CONTROLS.
3. DELIVER TO THE OWNER ALL SPECIAL TOOLS AND APPURTENANCES FOR PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT PROVIDED AND REQUEST RECEIPT FOR SAME. ATTACH TO THE CONTRACTOR'S REQUEST FOR FINAL PAYMENT.

S. CLEANING AND FINISHING

1. GENERAL: FOLLOW THE REQUIREMENTS SPECIFIED IN DIVISION 1 SECTION "PROJECT CLOSEOUT."
 2. IN SO FAR AS THIS DIVISION IS CONCERNED, AT ALL TIMES KEEP PREMISES AND BUILDING IN A NEAT AND ORDERLY CONDITION, FOLLOW EXPLICITLY ANY INSTRUCTIONS OF ARCHITECT AND OWNER IN REGARD TO STORING OF MATERIALS, PROTECTIVE MEASURES, CLEANING-UP OF DEBRIS, ETC.
 3. UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THIS COMPLETED THEIR CLEAN LUMINAIRES, OUTLET BOX PLATES, PANEL AND CABINET INTERIORS AND EXTERIORS, ETC., OF DIRT, DUST, DEBRIS, PAINT, ETC.
- T. GUARANTEE AND WARRANTIES

1. WARRANT THAT EQUIPMENT AND ALL WORK IS INSTALLED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND THAT ALL EQUIPMENT WILL MEET REQUIREMENTS SPECIFIED. ANY EQUIPMENT FAILING TO PERFORM OR FUNCTION AS SPECIFIED SHALL BE REPLACED WITH COMPLYING EQUIPMENT WITHOUT COST TO THE OWNER.
2. THIS CONTRACTOR SHALL GUARANTEE AGAINST DEFECTS OF ALL MATERIALS, WORKMANSHIP AND THE COMPLETE OPERATION OF ALL EQUIPMENT AND APPARATUS INSTALLED BY HIM FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE ENTIRE WORK AND SHALL GUARANTEE TO REPAIR OR REPLACE AT HIS OWN EXPENSE ANY PART OF THE APPARATUS WHICH MAY SHOW DEFECT DURING THAT TIME PROVIDED SUCH DEFECT IS, IN THE OPINION OF THE ARCHITECT, DUE TO IMPERFECT MATERIAL OR WORKMANSHIP AND NOT TO CARELESSNESS OR IMPROPER USE.

U. WIRE AND CABLE

1. ACCEPTABLE MANUFACTURER'S SHALL BE GENERAL CABLE CORPORATION, OKONITE, OR SOUTHWIRE COMPANY. ALL WIRE AND CABLE SHALL BE BY THE SAME MANUFACTURER.
2. CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE.
 - a. ALUMINUM CONDUCTORS ARE NOT PERMITTED UNDER ANY CIRCUMSTANCES, UNLESS EXPRESSLY PERMITTED BY OWNER IN WRITING.
3. INSULATION TYPE SHALL BE TYPE THW FOR WIRE SIZES #8 AWG AND LARGER AND THHN OR THWN FOR #10AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.
4. FLEXIBLE CORD SHALL BE HEAVY DUTY TYPE SO WITH AN EQUIPMENT GROUND CONDUCTOR IN ADDITION TO THE CURRENT CARRYING CONDUCTORS.
5. METAL CLAD (MC) CABLE SHALL BE 600 V COPPER WITH FULL-SIZED INSULATED GROUND CONDUCTOR. MINIMUM SIZE SHALL BE 12-AWG UNLESS SPECIFIED OTHERWISE.
 - a. METAL CLAD (MC) CABLE SHALL BE PERMITTED TO BE RUN IN CONCEALED WALLS AND ACCESSIBLE CEILING SPACES WHERE NOT SUBJECT TO PHYSICAL DAMAGE. MC CABLE SHALL ONLY BE PERMITTED FROM LAST JUNCTION/SPlice BOX TO LAST OUTLET. LIMIT RUNS OF MC CABLE TO 12 LINEAR FEET OR LESS. MC CABLE MAY BE USED FOR LIGHTING FIXTURE WHIPS NOT TO EXCEED 6 LINEAR FEET. MC CABLE SHALL NOT BE USED FOR HOME RUNS. MC CABLE SHALL NOT BE USED FOR FEEDERS.
6. PROVIDE #12 CONDUCTORS, UNLESS OTHERWISE INDICATED.
 - a. CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NEC CLASS I AND #16 FOR NEC CLASS II.
7. CONDUCTORS #10 AWG AND LARGER SHALL BE STRANDED.
8. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID.
9. COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS: 208/120V 3-PHASE 4-WIRE SYSTEM PHASE A BLACK, BROWN, PHASE B RED, ORANGE, PHASE C BLUE, YELLOW, NEUTRAL WHITE GREY, GROUND GREEN GREEN.
10. #12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE.
11. COLOR CODE CONDUCTORS LARGER THAN ABOVE, WHICH DO NOT HAVE CONTINUOUS INSULATION COLOR, BY APPLICATION OF COLOR TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH #35.
12. INSTALL WIRING IN CONDUIT.
13. CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, 'SCOTCHLOK' BY 3M OR B-CAP BY BUCHANAN.
14. CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR T&B.
15. INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE-STRETCHED TUBING CONNECTOR INSULATORS, 3M PST FOR #2 AND LARGER CONDUCTORS.
16. MAKE SPLICES IN BRANCH CIRCUIT WIRING WITH UL-LISTED, SOLDERLESS CONNECTORS RATED 600 V, OF SIZES AND TYPES REQUIRED BY MANUFACTURER'S RECOMMENDATIONS WITH TEMPERATURE RATINGS EQUAL TO THOSE OF WIRES. SPLICE CONNECTORS SHALL BE SCREW-ON. INSULATE SPLICES WITH INTEGRAL COVERS OR WITH PLASTIC OR RUBBER FRICTION TAPE TO PRESERVE CHARACTERISTICS OF WIRE AND CABLE INSULATION.
17. MAKE TERMINATIONS AND SPLICES FOR CONDUCTORS 6-AWG AND LARGER WITH CORROSION RESISTANT, HIGH CONDUCTIVITY PRESSURE INDENT, HEX SCREW OR BOLT CLAMP CONNECTORS, WITH OR WITHOUT TONGUES, DESIGNED SPECIFICALLY FOR INTENDED SERVICE. CONNECTORS FOR CABLES 250 KCMIL AND LARGER SHALL HAVE TWO CLAMPING ELEMENTS OR COMPRESSION INDENTS. TERMINALS FOR BUS CONNECTIONS SHALL HAVE TWO BOLT HOLES.
18. AMPACITY OF SPLICES AND CONNECTORS SHALL BE EQUAL TO THOSE OF ASSOCIATED WIRES AND CABLES.
19. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS. CLEAN OUT EACH CONDUIT SYSTEM BEFORE PULLING WIRE.
20. PROVIDE POLYETHYLENE ROPES FOR PULLING WIRE.
21. PROVIDE FISH WIRES IN TELEPHONE CONDUITS AND OTHER EMPTY CONDUIT SYSTEMS REQUIRED, WITHOUT SPLICES AND WITH AMPLE EXPOSED LENGTHS AT EACH END.
22. PROVIDE WIRE PULLING LUBRICANTS THAT MEET APPLICABLE UL REQUIREMENTS AS NECESSARY.

23. FORM AND TIE ALL WIRING IN PANELBOARDS.

24. THERE SHALL BE NO WIRE-NUIT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/PANELBOARDS.

25. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.
26. WIRE SIZES SHALL BE BASED ON THE 75 DEGREES C. AMPACITIES FOR WIRE SIZES NO. 14-1 A.W.G., AND #10 A.W.G. AND LARGER.
27. CIRCUITS MAY BE MULTI-PLEXED IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN (9) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT.
28. NEUTRAL WIRES SHALL NOT BE SHARED ON ANY CIRCUITS.

V. GROUNDING

1. GROUND ALL EQUIPMENT PER N.E.C.
2. PROVIDE EQUIPMENT GROUNDING SYSTEM AS SHOWN ON DRAWINGS. EQUIPMENT GROUNDING SYSTEM SHALL BE DESIGNED SO METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE LOW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS.
3. GROUND EACH OUTSIDE LIGHTING STANDARD SEPARATELY WITH ONE GROUND ROD AND A #6 GROUND WIRE.
4. PROVIDE SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT. INSTALL GROUNDING CONDUCTOR IN COMMON CONDUIT WITH RELATED PHASE AND/OR NEUTRAL CONDUCTORS. PARALLEL FEEDERS INSTALLED IN MORE THAN ONE RACEWAY SHALL HAVE



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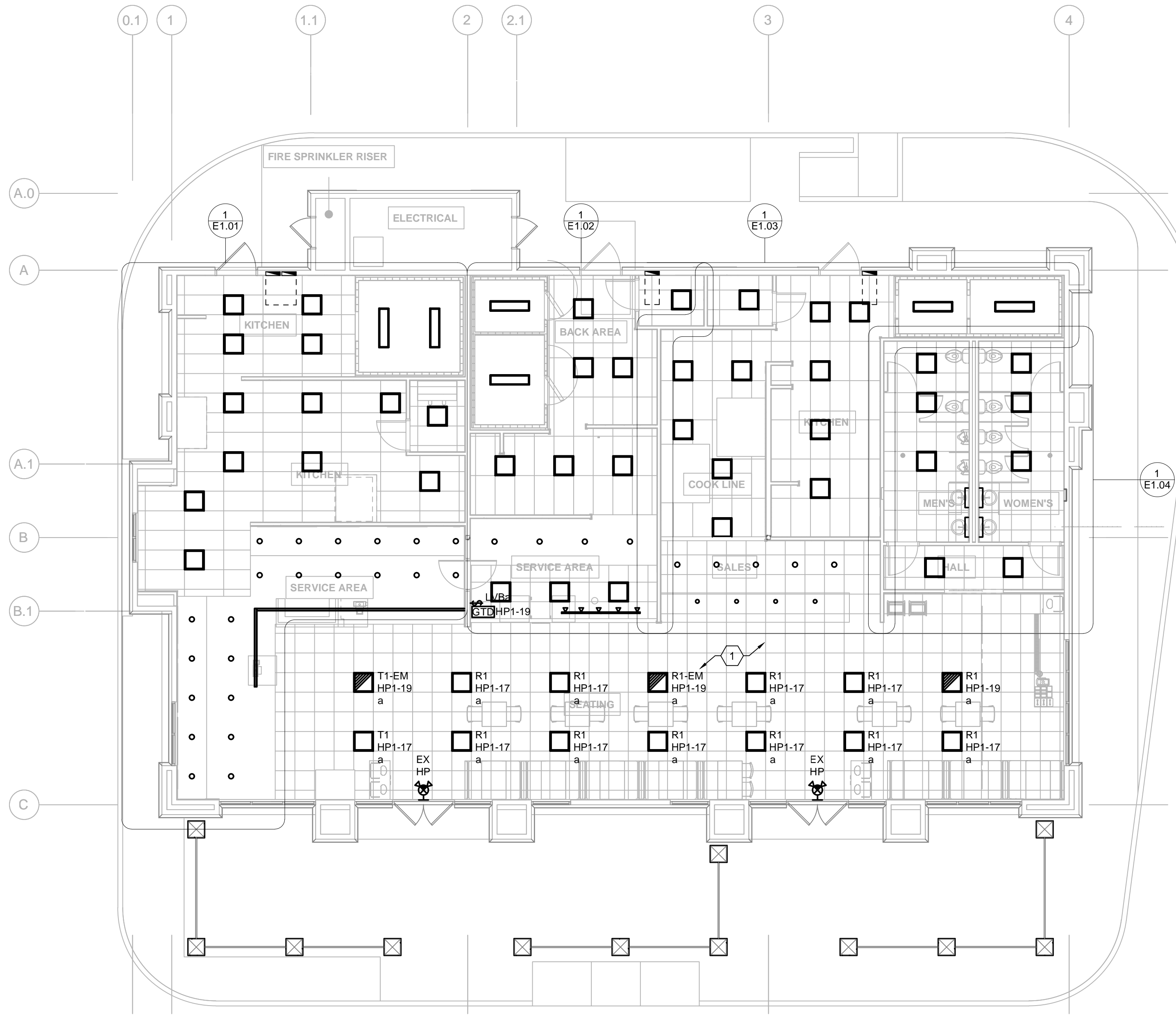
5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description: ISSUED FOR PERMIT	
Revision Schedule	
#	DATE DESCRIPTION

Project #: 19027
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E0.10

Electrical Specifications



Overall Electrical
Lighting Plan
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO THE FOLLOWING: SYMBOL LEGEND(S) AND NOTES: DWG. E-001; ELECTRICAL SPECIFICATIONS: DWG's E-002 THRU E-00XX; ELECTRICAL DETAILS: DWG. SERIES E-500's; ELECTRICAL ONE LINE DIAGRAM(S): DWG. SERIES E-600's; AND ELECTRICAL SCHEDULES: DWG. SERIES E-700's FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL EXIT SIGNS, EMERGENCY LIGHTING BATTERY PACKS, EMERGENCY LUMINAIRES (VIA GENERATOR TRANSFER DEVICE OR WITH EMERGENCY BATTERY INTEGRAL TO LUMINAIRE), AND NIGHT LIGHTS (DENOTED 'NL') SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY CONTROLS SUCH AS: SWITCHES, OCCUPANCY SENSORS AND/OR RELAY CONTROLS.
3. MINIMUM CONDUCTOR SIZE FOR 277 VOLT BRANCH CIRCUITING SHALL BE #12AWG. FOR 277 VOLT BRANCH CIRCUITS WITH HOMERUNS OVER 125 LINEAR FEET A MINIMUM CONDUCTOR SIZE OF #10AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. ASSOCIATED EQUIPMENT GROUNDING CONDUCTOR SHALL ALSO BE INCREASED PER N.E.C. ARTICLE 250.122(B) REQUIREMENTS.
4. MINIMUM CONDUCTOR SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE #12AWG. FOR 120 VOLT BRANCH CIRCUITS WITH HOMERUNS OVER 75 LINEAR FEET, A MINIMUM WIRE SIZE OF #10AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. FOR 120 VOLT BRANCH CIRCUITS WITH HOMERUN OVER 150 LINEAR FEET, A MINIMUM WIRE SIZE OF #8AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. ASSOCIATED EQUIPMENT GROUNDING CONDUCTOR SHALL ALSO BE INCREASED PER N.E.C. ARTICLE 250.122(B) REQUIREMENTS.
5. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN (2)#12AWG, (1)#12 EG, 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
6. ALL BRANCH CIRCUITS SHALL BE RUN WITH AN INDIVIDUAL NEUTRAL WIRE. BRANCH CIRCUITS SHALL NOT SHARE NEUTRAL WIRES. PER N.E.C. 404.2(C) THE NEUTRAL WIRE SHALL BE EXTENDED TO ALL SWITCHING LOCATIONS.
7. LIGHTING BRANCH CIRCUITS MAY SHARE EQUIPMENT GROUND CONDUCTORS. ALL SHARED EQUIPMENT GROUND CONDUCTORS SHALL BE #10 AWG MINIMUM.
8. REFER TO E-500's SERIES FOR OCCUPANCY SENSOR WIRING DIAGRAMS. CONTRACTOR TO VERIFY OCCUPANCY SENSOR LOCATION PER MANUFACTURER'S SPECIFICATIONS.
9. EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
10. ALL CONDUCTORS SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
11. A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

SHEET KEYNOTES

1. LIGHTING IN THIS AREA TO BE AUTOMATICALLY SHUT OFF VIA LANDLORD LIGHTING CONTROL PANEL. E.G. SHALL VERIFY IF THERE ARE AVAILABLE CONTACTORS WITHIN PANEL FOR LIGHTING CONTROL. PROVIDE ADDITIONAL CONTACTORS TO PANEL AS REQUIRED.



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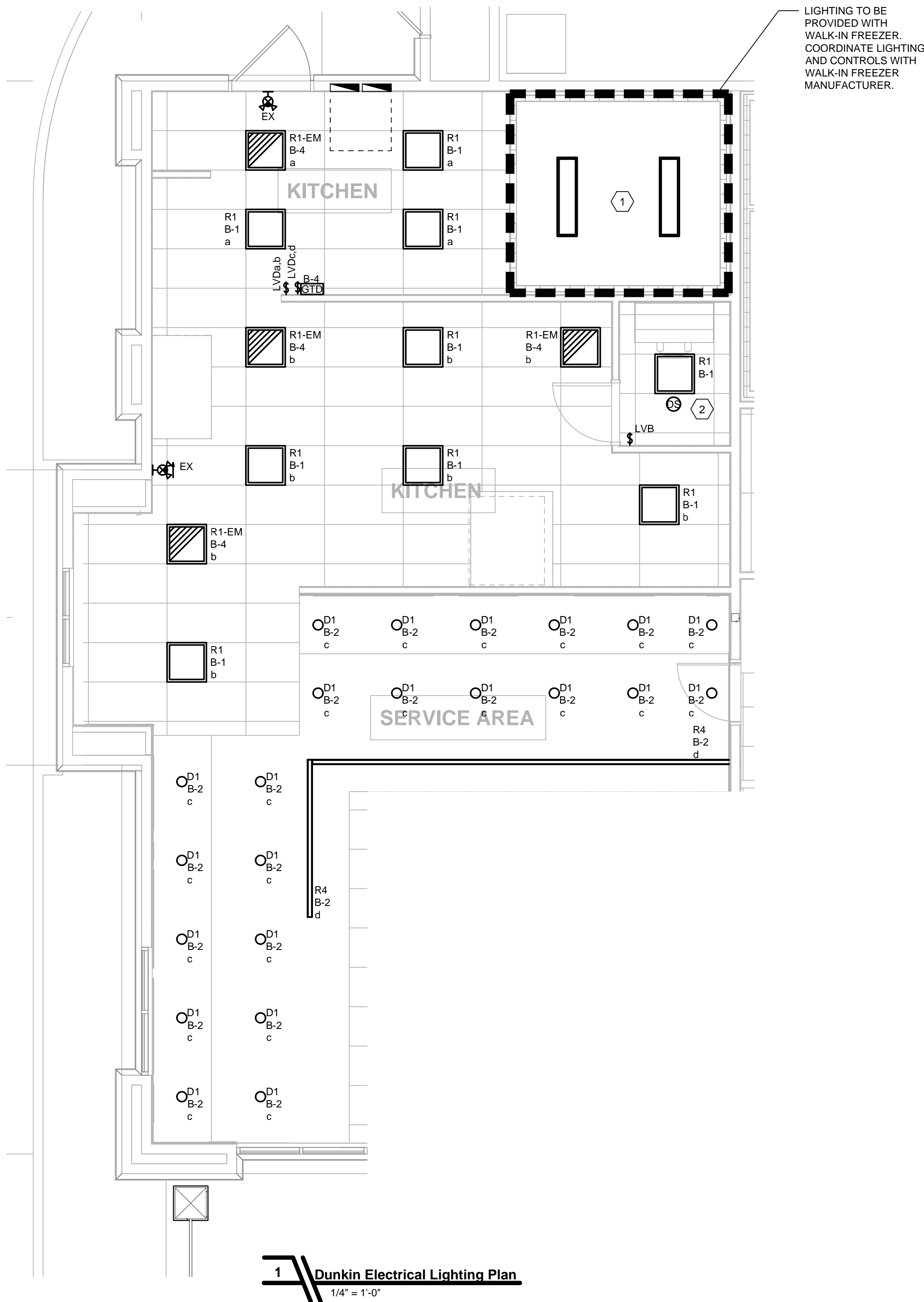
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Issue Description: ISSUED FOR PERMIT		
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Project #: 19027
Issue Date: 08/21/2019

E1.00

Overall Electrical
Lighting Plan



DUNKIN GENERAL NOTES

- REFER TO SHEET E7.01 FOR LUMINAIRE SCHEDULE.
- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
- THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
- ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
- THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
- ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- COORDINATE ALL EQUIPMENT UTILITY INFORMATION SHOWN ON THIS SHEET WITH THE DUNKIN BRANDS EQUIPMENT SCHEDULE AND EQUIPMENT MANUFACTURER'S CUT SHEETS.
- ALL EXTERIOR LIGHTS TO BE TIMECLOCK CONTROLLED.
- ALL 15 AND 20 AMP, 120 VOLT RECEPTACLES IN KITCHEN AND PREP AREAS SHALL BE GFI TYPE.
- ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.
- ALL EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. PROVIDE ADDITIONAL FIXTURES AS NEEDED TO MEET THE CODE REQUIREMENTS PER LOCAL REQUIREMENTS.
- PROVIDE WOOD BLOCKING BEHIND ALL EXTERIOR LIGHTING FIXTURES COORDINATE WITH GENERAL CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE LATEST KITCHEN PLANS AND EQUIPMENT CUTS SHEETS FOR PROPER EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO STARTING WORK.

SHEET KEYNOTES

- PROVIDE OCCUPANCY SENSOR SWITCHES FOR WALK-IN REFRIGERATOR AND FREEZER. ENSURE SWITCHES ARE SUITABLE FOR TEMPERATURE OF SPACE.
- SPEAKER AND SOUND SYSTEM TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATE VOLUME CONTROL IN THE OFFICE. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION AND CONTROL.



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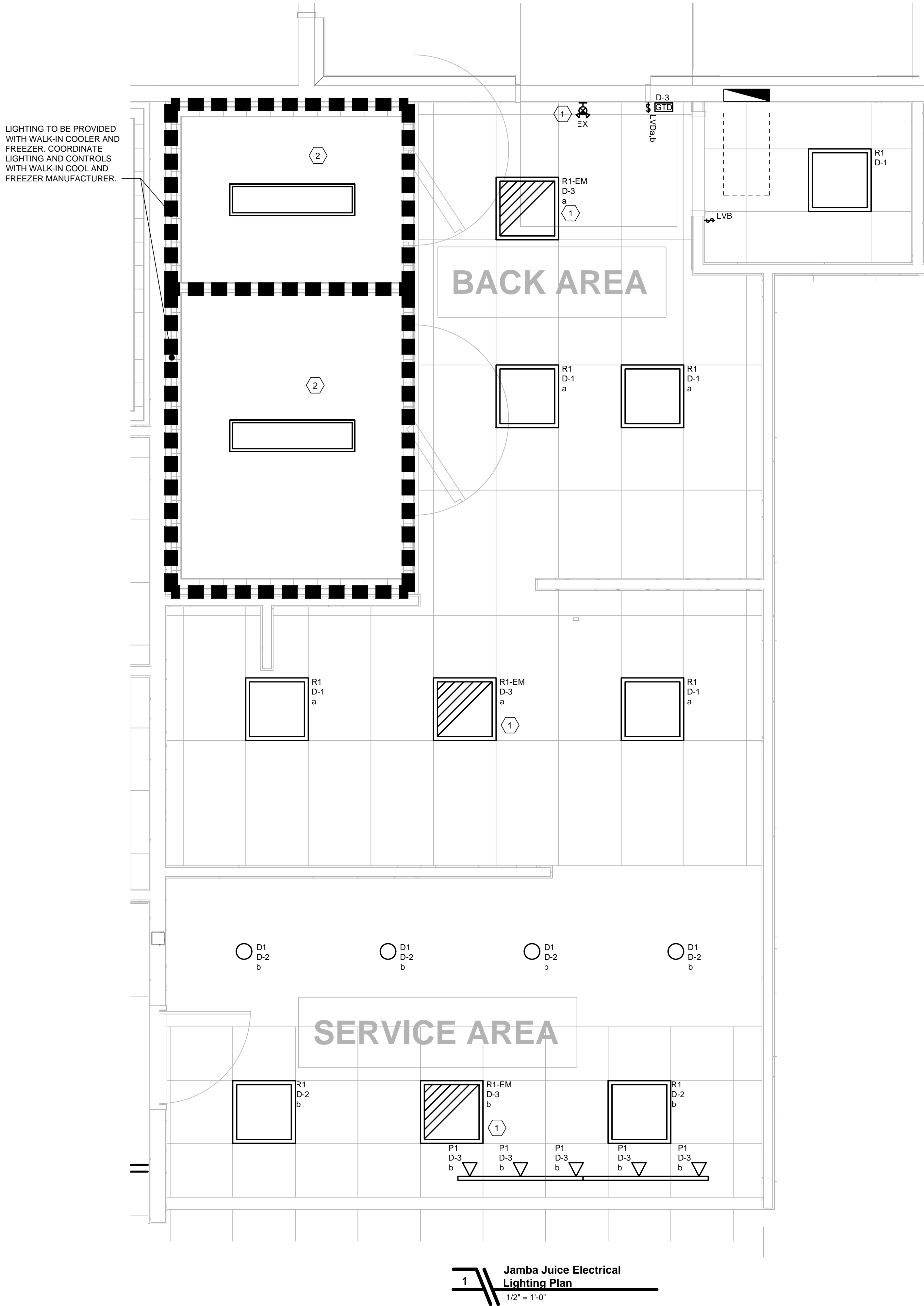
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E1.01

Dunkin Electrical
Lighting Plan



JJ GENERAL NOTES

- REFER TO SHEET E7.01 FOR LUMINAIRE SCHEDULE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- X-RAY SLAB BEFORE MAKING PENETRATIONS AND OBTAIN LANDLORD APPROVAL FOR FLOOR PENETRATIONS.
- ALL OUTLET COVERS IN SERVICE, PREP, KITCHEN, AND BOH SHALL BE STAINLESS STEEL RECEPTACLES AND COVER PLATES WITHIN CUSTOMER AREA SHALL MATCH ADJACENT FINISH.
- ALL 125-VOLT, SINGLE PHASE, 15-AMP AND 20-AMP RECEPTACLES LOCATED IN SERVICE AND BACK AREA SHALL BE GFCI PROTECTED AS REQUIRED BY CURRENT NEC.
- OUTLETS MUST NOT CONFLICT WITH EQUIPMENT LEGS. VERIFY WITH SHOP DRAWINGS BEFORE LOCATING OUTLETS.
- REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE, LOCATION, AND ELEC. REQUIREMENTS FOR ALL MOTORS AND MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- POS SYSTEM BRANCH CIRCUITING SHALL BE ROUTED WITHIN ITS OWN DEDICATED CONDUIT RACEWAY. NO OTHER BRANCH CIRCUITS SHALL BE ROUTED WITHIN IT.
- ALL NEW POWER AND LIGHTING CONDUITS ON THIS PROJECT SHALL INCLUDE AN INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS NOTED PER NEC WHERE NOT NOTED. THIS GROUNDING CONDUCTOR SHALL BE PROVIDED REGARDLESS OF THE TYPE OF CONDUIT USED.
- COORDINATE EXACT LOCATION, TERMINATIONS, MOUNTING HEIGHTS AND ELECTRICAL CHARACTERISTICS FOR EACH SPECIFIC MODEL AND PIECE OF EQUIPMENT WITH JAMBA JUICE'S REPRESENTATIVE AND KITCHEN EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. PROVIDE ELECTRICAL SERVICE AS REQUIRED FOR EACH PIECE OF EQUIPMENT. ALL RECEPTACLES SHALL BE OF VOLTAGE RATING AND AMPACITY TO MATCH MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID PROPOSAL.
- THE CONTRACTOR SHALL VERIFY AND INCLUDE IN THEIR FINAL BID ALL LIFE SAFETY, SMOKE/FIRE ALARM SYSTEMS NEEDED TO BRING TENANTS SPACE COMPATIBLE WITH THE LANDLORD'S SYSTEM, AND CURRENT WITH LOCAL AND STATE CODES. FAILURE TO DO SO SHALL RESULT IN NO EXPENSE TO THE TENANT.
- CONTRACTOR SHALL PROVIDE POWER, INTERCONNECTING SERVICES AND ALL FINAL CONNECTIONS TO REACH-IN REFRIGERATOR FOR A COMPLETE OPERATING SYSTEM.
- ALL WIRING DEVICES AND FIXTURES INSIDE THE WALK-IN FREEZER ARE TO BE VAPOR PROOF. SEAL ALL CONDUIT PENETRATIONS WITH SILICONE.
- CONTRACTOR SHALL PROVIDE SHATTERPROOF PROTECTION OR CONTAINMENT WHEN LIGHTS ARE LOCATED IN AREAS USED FOR FOOD PREPARATION (INCLUDING BEVERAGES), UTENSIL WASHING, OPENED FOOD STORAGE, AND WHERE THE LIGHT FIXTURES ARE EXPOSED TO EMPLOYEE CONTACT, E.G., INSIDE REFRIGERATION UNITS.

SHEET KEYNOTES

- CONNECT UNSWITCHED LEG OF CIRCUIT FOR EMERGENCY, AND EXIT LIGHTING.
- LIGHT FIXTURES IN FREEZER, FURNISHED BY VENDOR, INSTALLED BY G.C.



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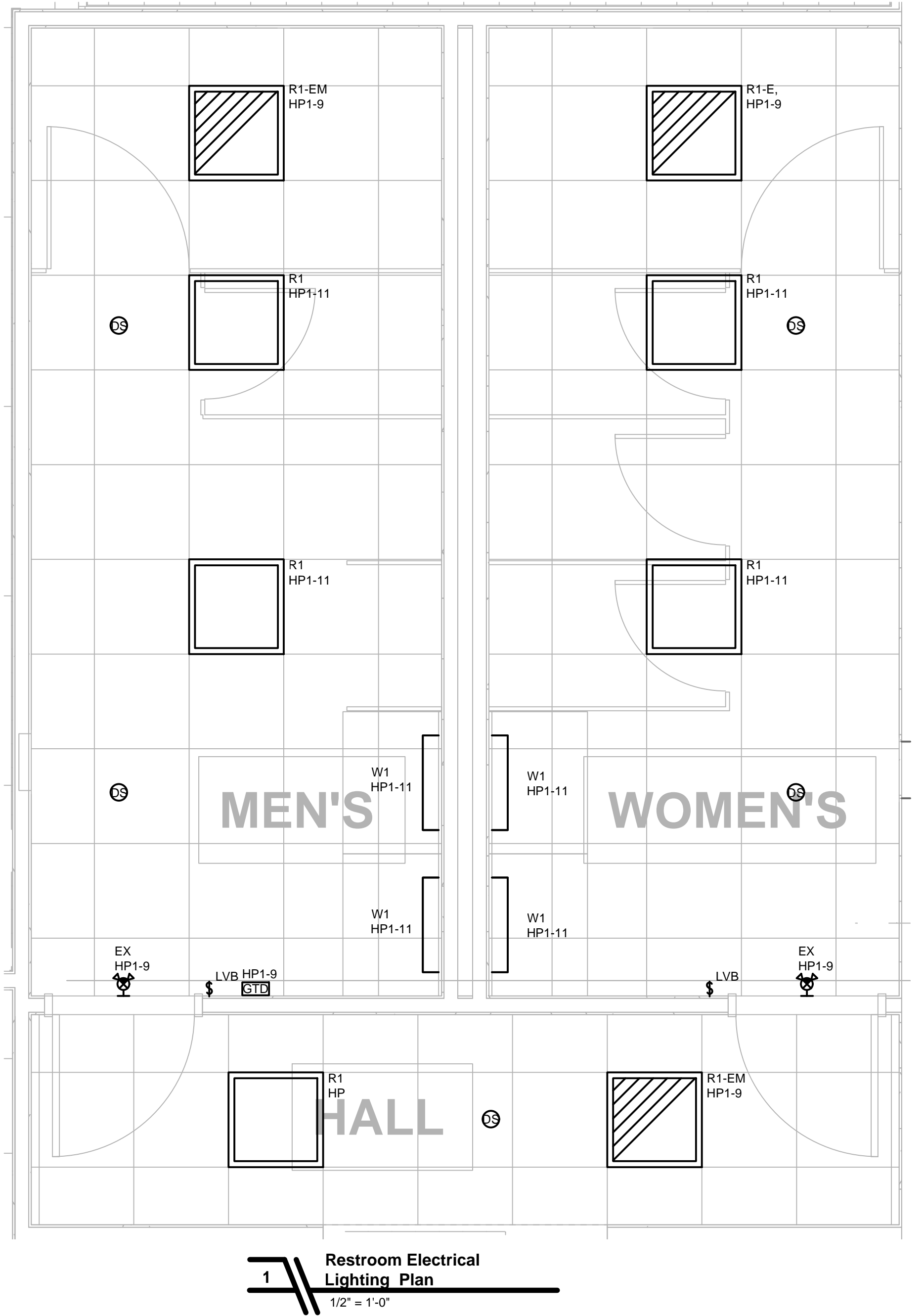
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E1.02

Jamba Juice Electrical
Lighting Plan





GENERAL NOTES

1. REFER TO E7.01 FOR LUMINAIRE SCHEDULE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
3. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
4. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS, LOUVER SIZES, ETC. WITH GENERAL TRADES.
5. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO FABRICATION OF ANY WORK.
6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF CEILING GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS.
7. DUCTWORK SHALL NOT BE LOCATED ABOVE ANY ELECTRICAL PANELS OR EQUIPMENT.
8. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILINGS FOR ALL EQUIPMENT WHICH REQUIRES ACCESS.
9. ALL MECHANICAL EQUIPMENT, PIPING, VALVES, DAMPERS ETC. WHICH REQUIRE ROUTINE MAINTENANCE OR INSPECTION SHALL BE INSTALLED WITHIN 2'-0" OF THE FINISHED CEILING HEIGHT.
10. MAINTAIN OUTDOOR AIR INTAKES MINIMUM 10'-0" FROM VENTS /

SHEET KEYNOTES



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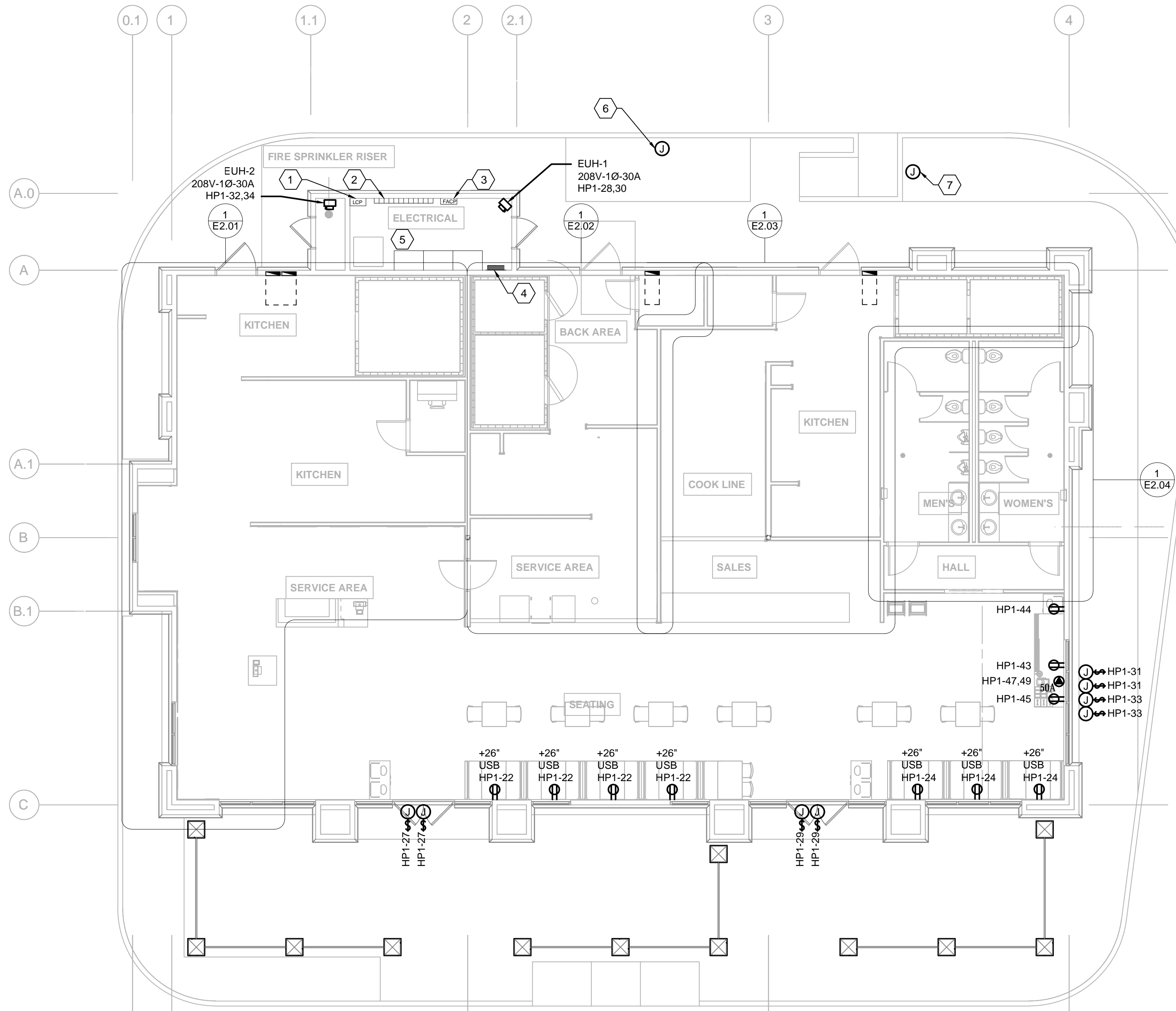
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E1.04

Restroom Electrical
Lighting Plan



1 Overall Electrical Power Plan
1/8" = 1'-0"

OVERALL GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
3. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS, LOUVER SIZES, ETC. WITH GENERAL TRADES.
4. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO FABRICATION OF ANY WORK.
5. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF CEILING GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS.
6. DUCTWORK SHALL NOT BE LOCATED ABOVE ANY ELECTRICAL PANELS OR EQUIPMENT.
7. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILINGS FOR ALL EQUIPMENT WHICH REQUIRES ACCESS.
8. ALL MECHANICAL EQUIPMENT, PIPING, VALVES, DAMPERS ETC. WHICH REQUIRE ROUTINE MAINTENANCE OR INSPECTION SHALL BE INSTALLED WITHIN 2'-0" OF THE FINISHED CEILING HEIGHT. MAINTAIN OUTDOOR AIR INTAKES MINIMUM 10'-0" FROM VENTS / EQUIPMENT.

SHEET KEYNOTES

1. EXISTING LIGHTING CONTROL PANEL. ALL LANDLORD AND HOUSE LIGHTING SHALL BE CONTROLLED BY PANEL LCP.
2. EXISTING TELEPHONE BOARD. ALL TENANT AND LANDLORD TELEPHONE AND DATA EQUIPMENT TO BE TIED BACK TO THIS LOCATION.
3. EXISTING FIRE ALARM CONTROL PANEL. ALL TENANT AND LANDLORD FIRE ALARM DEVICES SHALL BE TIED BACK TO THIS SYSTEM.
4. EXISTING PANEL 'HP1'
5. EXISTING MAIN DISTRIBUTION PANEL 'MSB' RATED FOR 1000A AT 120/208V.
6. DIGITAL MENU BOARD AND ORDER TOWER. E.C. SHALL PROVIDE POWER AND DATA EACH EXTERIOR LOCATION. PROVIDE POWER FROM CIRCUIT B-14 IN THE DUNKIN DONUTS/BASKIN ROBBINS PANEL. METHOD OF TRENCHING TO BE DETERMINED BY BUILDING STANDARDS.
7. DUNKIN DONUTS/BASKIN ROBBINS DIGITAL PREVIEW BOARD. E.C. SHALL PROVIDE POWER AND DATA EACH EXTERIOR LOCATION. PROVIDE POWER FROM CIRCUIT B-16 IN THE DUNKIN DONUTS/BASKIN ROBBINS PANEL. METHOD OF TRENCHING TO BE DETERMINED BY BUILDING STANDARDS.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX FOR THE EXTERIOR SIGNAGE. INSTALL THE JUNCTION BOX WITHIN THE BUILDING. THE SIGNS SHOULD BE SUPPLIED WITH WHIPS FOR FINAL CONNECTION TO THIS JUNCTION BOX. WITH COORDINATE WITH THE SIGN VENDOR ON THE QUANTITY AND LOCATION OF THE REQUIRED JUNCTION BOXES. THE CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA TIME CLOCK. CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA LANDLORD LIGHTING CONTROL PANEL. VERIFY AVAILABLE CONTACTORS WITHIN PANEL, PROVIDE MORE AS REQUIRED.

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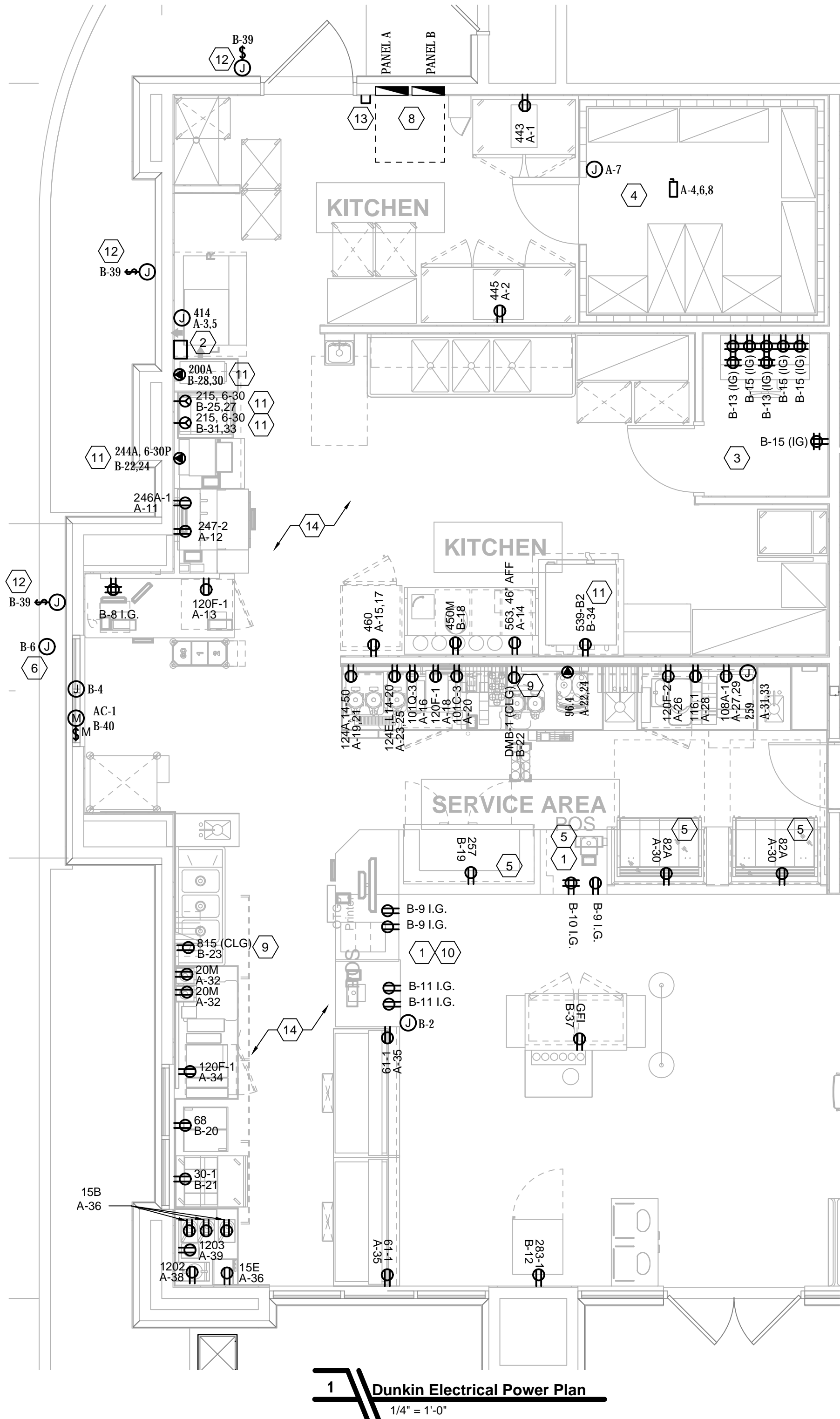
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E2.00

Overall Electrical Power Plan



DUNKIN GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
4. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
6. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
7. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
8. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
9. COORDINATE ALL EQUIPMENT UTILITY INFORMATION SHOWN ON THIS SHEET WITH THE DUNKIN BRANDS EQUIPMENT SCHEDULE AND EQUIPMENT MANUFACTURER'S CUT SHEETS.
10. ALL EXTERIOR LIGHTS TO BE TIMECLOCK CONTROLLED.
11. ALL RECEPTACLES IN KITCHEN AND PREP AREAS SHALL BE GFI TYPE.
12. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.
13. ALL EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. PROVIDE ADDITIONAL FIXTURES AS NEEDED TO MEET THE CODE REQUIREMENTS PER LOCAL REQUIREMENTS.
14. PROVIDE WOOD BLOCKING BEHIND ALL EXTERIOR LIGHTING FIXTURES COORDINATE WITH GENERAL CONTRACTOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE LATEST KITCHEN PLANS AND EQUIPMENT CUTS SHEETS FOR PROPER EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO STARTING WORK.

SHEET KEYNOTES

1. SEE POS AND COMMUNICATIONS. PLAN FOR FURTHER INFORMATION REGARDING POS AND UNDER COUNTER ELECTRICAL SERVICE.
2. CONTRACTOR SHALL PROVIDE POWER AND NECESSARY WIRING FOR THE HOOD CONTROL PANEL. SEE THE CAPTIVE AIRE DRAWINGS FOR WIRING REQUIREMENTS.
3. REFER TO POS COMMUNICATIONS FLOOR PLAN FOR LOCATIONS AND ELEVATIONS OF OFFICE RECEPTACLES.
4. SINGLE POINT CONNECTION FOR WALK-IN FREEZER AND REFRIGERATOR. THE CONTRACTOR SHALL CONFIRM ELECTRICAL REQUIREMENTS AND MEANS OF DISCONNECT OF THE ROOF MOUNTED CONDENSING UNITS AND EVAPORATOR UNITS LOCATED WITHIN THE BOXES. ALSO, PROVIDE ELECTRICAL CONNECTION OF DOOR HEATER, CONDENSATE DRAIN AND HEAT TRACE TAPE.
5. MOUNT RECEPTACLES FOR FRONTLINE BEVERAGE DISPENSER AND BAKERY DISPLAY CASES IN MILL WORK AS REQUIRED. PROVIDE FLEXIBLE CONDUIT WHIP FOR FINAL INSTALLATION AFTER MILL WORK IS INSTALLED. COORDINATE AS REQUIRED.
6. CONNECT DRIVE THRU EQUIPMENT, MENU BOARD, SPEAKER CONTROL, LOOP CONTROL, ETC. TO THE CIRCUIT INDICATED THROUGH THE TIMECLOCK.
7. NOT USED.
8. ELECTRICAL PANELS SHALL BE RECESSED WITH FLUSH PANEL COVERS.
9. CONTRACTOR TO MOUNT RECEPTACLE IN THE CEILING BEHIND THE MENUBOARD. VERIFY ACTUAL LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
10. MOUNT RECEPTACLES FOR GRAB-N-GO CASES IN KNEE WALL OR ADJACENT CABINET. PROVIDE MANUFACTURER APPROVED CORD AND PLUG FROM CASE TO RECEPTACLE. COORDINATE AS REQUIRED.
11. PROVIDE SHUNT TRIP CIRCUIT BREAKER TO ALL EQUIPMENT UNDER THE HOOD. INTERLOCK SHUNT TRIP W/ HOOD ANSUL SYSTEM.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX FOR THE EXTERIOR SIGNAGE. INSTALL THE JUNCTION BOX WITHIN THE BUILDING. THE SIGNS SHOULD BE SUPPLIED WITH WHIPS FOR FINAL CONNECTION TO THIS JUNCTION BOX. WITH COORDINATE WITH THE SIGN VENDOR ON THE QUANTITY AND LOCATION OF THE REQUIRED JUNCTION BOXES. THE CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA TIME CLOCK.
13. REC Y TIME CLOCK FOR AUTOMATIC LIGHTING SHUT OFF AND BUILDING SIGN CONTROL. REFER TO DETAIL 8/E5.01 FOR MORE INFORMATION.
14. CONTRACTOR SHALL COORDINATE WITH KITCHEN AND REFRIGERATION CONTRACTORS AND DETERMINE EXACT RATING OF ALL EQUIPMENT AND TYPE OF REQUIRED POWER LEAD CONNECTION AT EACH EQUIP. MUST ADJUST SIZE OF BREAKERS IF OR AS REQUIRED, TYPICAL.



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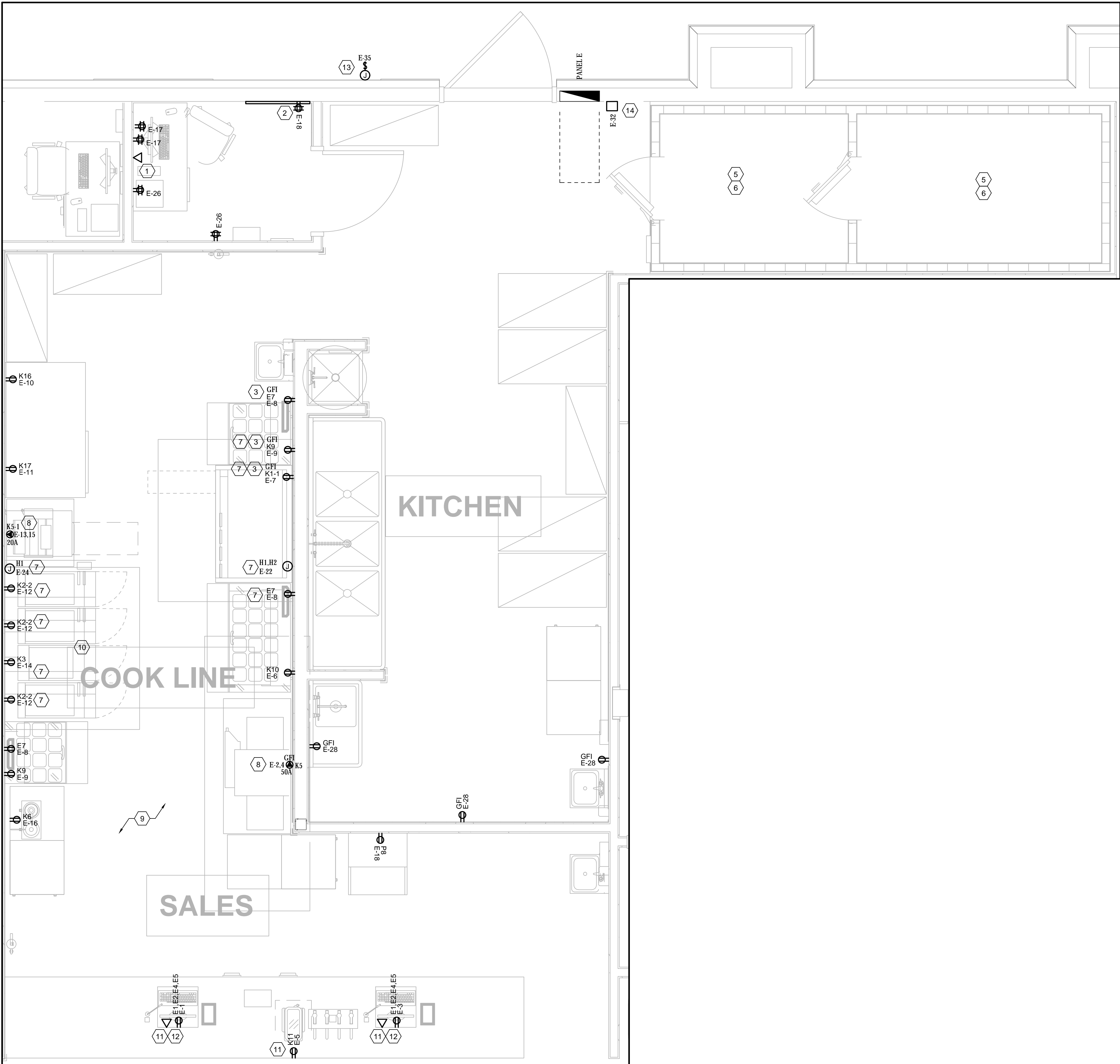
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Dunkin Electrical
Power Plan



1 Charley's Electrical
Power Plan
1/2" = 1'-0"

CHARLEY GENERAL NOTES

- CONTRACTOR SHALL REVIEW THE SPECIFICATIONS, GENERAL NOTES, KEY NOTES, ELECTRICAL PLANS, AND THE LANDLORD DESIGN CRITERIA BEFORE BIDDING AND STARTING ANY CONSTRUCTION WORK.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW WIRING AS SHOWN ON THE ELEC. PLANS AND RISER DIAGRAM. ALL NEW WIRING SHALL BE IN COMPLIANCE WITH N.E.C. TABLE 310-16, AND PANEL SCHEDULES.
- PULL STRINGS SHALL BE PROVIDED IN ALL EMPTY CONDUIT. FOR TELEPHONE AND LOW VOLTAGE SYSTEM.
- INTERIOR TELEPHONE WIRING SHALL INCLUDE FURNISHING AND INSTALLING ALL TELEPHONE JACKS, AND COVER PLATES AS REQUIRED. COORDINATE WITH TENANT.
- LABEL ALL ELEC. EQUIPMENT WITH ENGRAVED BAKELITE NAMEPLATE OR EMBOSSED PLASTIC NAME STRIP. LABEL ALL PANELS AS SHOWN ON THE RISER DIAGRAM.
- FURNISH A TYPE WRITTEN CIRCUIT DIRECTORY CARD FOR ALL PANELS, LISTING ALL USED AND SPARE CIRCUITS.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL ELECTRICAL REQUIREMENTS AND LOCATIONS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION.
- ALL OUTLET AND SWITCHES COVER PLATES SHALL BE STAINLESS STEEL. ALL OUTLET BOXES SHALL BE MOUNTED FLUSH IN WALLS AND SHALL BE MOUNTED AT HEIGHT AS INDICATED ON THE ARCHITECTURAL EQUIP. PLAN. COORDINATE ALL LOCATIONS WITH EQUIPMENT INSTALLATION AND ARCHITECTURAL DRAWINGS.
- ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE EFFECTIVELY GROUNDED IN ACCORDANCE WITH N.E.C. REQUIREMENTS. ALL BRANCH CIRCUITS SHALL HAVE A SEPARATE GREEN INSULATED GROUND WIRE IN EACH CONDUIT RUN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATION WITH THE PROPERTY OWNER'S PERSONNEL TO REVIEW CONTRACT DOCUMENTS PRIOR TO INSTALLATION.
- CONTRACTOR TO SEAL ALL WALL PENETRATIONS IN AN APPROVED MANNER TO INSURE THE FIRE RATING INTEGRITY OF THE INVOLVED AREAS.
- COORDINATE FINAL INSTALLATION REQUIREMENTS WITH PROPER AUTHORITIES AND LANDLORD'S MANAGER.
- CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL BE RESPONSIBLE TO PROVIDE ANY AND ALL CERTIFICATIONS.
- CONTRACTOR SHALL COMPLY WITH THE LANDLORD'S DESIGN CRITERIA FOR ELECTRICAL AND FIRE ALARM SYSTEMS. MAKE NECESSARY CONNECTIONS BETWEEN TENANT'S FIRE DETECTING DEVICES AND THE LANDLORD'S FIRE ALARM STATION.
- ALL CONDUIT RUNS ABOVE CEILING SHALL BE PARALLEL OR PERPENDICULAR TO THE COLUMN LINES.
- ALL CABLES AND WIRE SIZES SHALL COMPLY WITH N.E.C. TABLE 310-16 2017. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG CU. NO. 10 WIRES SHALL BE USED IN PLACE OF #12 FOR CIRCUITS LONGER THAN 100 FEET FROM PANEL TO LOAD. ALUMINUM CONDUCTOR SHALL NOT BE PERMITTED. WIRE INSULATION SHALL BE THHN OR THWN.
- CONTRACTOR MAY USE FLEXIBLE CONDUIT FROM JUNCTION BOX TO THE LIGHTING FIXTURE, BETWEEN LIGHTING FIXTURES, AND TO THE OTHER DEVICES PROVIDED THE LENGTH OF THE FLEX. CONDUIT IS NOT MORE THAN 6 FEET.
- MC CABLES SHALL NOT BE USED FOR HOME RUN CIRCUITS AND FOR THE WIRING WITHIN PARTITION OR DEMISING WALL CONSTRUCTION. ALL IN-WALL CONCEALED WIRING MUST BE RUN IN RIGID CONDUITS. ALL RECEPTACLES IN KITCHEN AND PREP AREAS SHALL BE GFI TYPE.

SHEET KEYNOTES

- PROVIDE A MINIMUM 1/2" CONDUIT W/WIRE FROM TELEPHONE OUTLET BACK TO TELEPHONE BOARD LOCATED IN WORK AREA. THIS IS TYPICAL FOR ALL TELEPHONE OUTLETS.
- CONTRACTOR SHALL COORDINATE WITH LANDLORD AND INSTALL NEW LOW VOLTAGE EQUIPMENT AS REQUIRED. COORDINATE ALL LOW VOLTAGE REQUIREMENTS WITH TENANT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CABLES AND DATA/TEL. OUTLETS. THE LOW VOLTAGE SYSTEM SHALL BE COMPLETE AND FUNCTIONAL.
- ALL OUTLETS WITHIN 6' OF ANY SINK SHALL BE GFI OUTLETS. ALL KITCHEN AREA OUTLETS SHALL BE WITH GFI TO COMPLY WITH N.E.C. STD. #210.8(b)(2). TO ECONOMIZE THE COST THE CONTRACTORS SHALL INSTALL FIRST OUTLET AT WHICH THE HOME RUN IS CONNECTED, WITH GFI AND ALL OTHER DOWN STREAM OUTLET NORMAL WITHOUT GFI.
- THE CONTRACTOR SHALL COORDINATE WITH LANDLORD AND DETERMINE WHAT KIND OF LIFE SAFETY AND FIRE ALARM DEVICES ARE REQUIRED BEFORE BIDDING FOR THE PROJECT. USE EXISTING OR FURNISH AND INSTALL NEW FA DEVICES AS REQUIRED. IN COMPLIANCE WITH THE POWER PLAN AND ANSUL WIRING DIAGRAM, LANDLORD'S CRITERIA, NFPA AND LATEST APPLICABLE CODE REQUIREMENTS. TIE TENANT'S FA SYSTEM TO THE BASE BUILDING FA SYSTEM, AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL CABLES AND CONNECTIONS, AS REQUIRED, OF ALL COMPONENTS THAT ARE PART OF THE WALK-IN COOLER & FREEZER TO BE FULLY FUNCTIONAL.
- CONTRACTOR SHALL MAKE SURE THAT CONDUIT PENETRATIONS OF THE WALK IN COOLER & FREEZER ARE SEALED ON HE INSIDE IN COMPLIANCE WITH N.E.C. ART. 300-7 "REQUIREMENT TO PREVENT CONDENSATE BUILD UP WITHIN THE CONDUIT". PROVIDE SHUNT TRIP CIRCUIT BREAKER TO ALL EQUIPMENT UNDER THE HOOD. INTERLOCK SHUNT TRIP W/HOOD ANSUL SYSTEM.
- FURNISH AND INSTALL POWER CIRCUITS FOR TOASTERS #K5 & #K5-1, INSTALL 50A & 20a, 208V, 1P, TWIST LOCK OUTLETS, DETERMINE EXACT LOCATION OF OUTLETS AT SITE WITH TENANT. MAKE ALL CONNECTION AS REQUIRED.
- CONTRACTOR SHALL COORDINATE WITH KITCHEN AND REFRIGERATION CONTRACTORS AND DETERMINE EXACT RATING OF ALL EQUIPMENT AND TYPE OF REQUIRED POWER LEAD CONNECTIONS AT EACH EQUIP. MUST ADJUST SIZE OF BREAKERS IF OR AS REQUIRED, TYPICAL.
- DETERMINE EXACT LOCATION OF HOOD AND ANSUL PANELS AT SITE WITH HOOD PACKAGE. CONTRACTOR SHALL ROUTE POWER CIRCUIT FOR EXHAUST AND SUPPLY FANS FROM POWER PANEL TO THE HOOD PANEL AND FROM HOOD PANEL TO THE EXHAUST AND SUPPLY FANS. COORDINATE WITH HOOD MFG. DRAWINGS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL FURNISH AND INSTALL 208V, 3 POLE, FUSED NEMA 3R, DISC. SWITCHES FOR EXHAUST AND SUPPLY FANS.
- ALL CONDUIT PENETRATIONS THROUGH CASEWORK SHALL BE CLEAN, TIGHT, AND SEALED WITH WHITE SILICONE, TYPICAL.
- PROVIDE KEY-LOCK TABS AT THESE CIRCUITS. ROUTE CASH REGISTER CIRCUITS WITH AN ISOLATED GROUND CONDUCTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX FOR THE EXTERIOR SIGNAGE. INSTALL THE JUNCTION BOX WITHIN THE BUILDING. THE SIGNS SHOULD BE SUPPLIED WITH WHIPS FOR FINAL CONNECTION TO THIS JUNCTION BOX. WITH COORDINATE WITH THE SIGN VENDOR ON THE QUANTITY AND LOCATION OF THE REQUIRED JUNCTION BOXES. THE CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA TIME CLOCK.
- nECY TIME CLOCK FOR AUTOMATIC LIGHTING SHUT OFF AND BUILDING SIGN CONTROL. REFER TO DETAIL 8/E5.01 FOR MORE INFORMATION.



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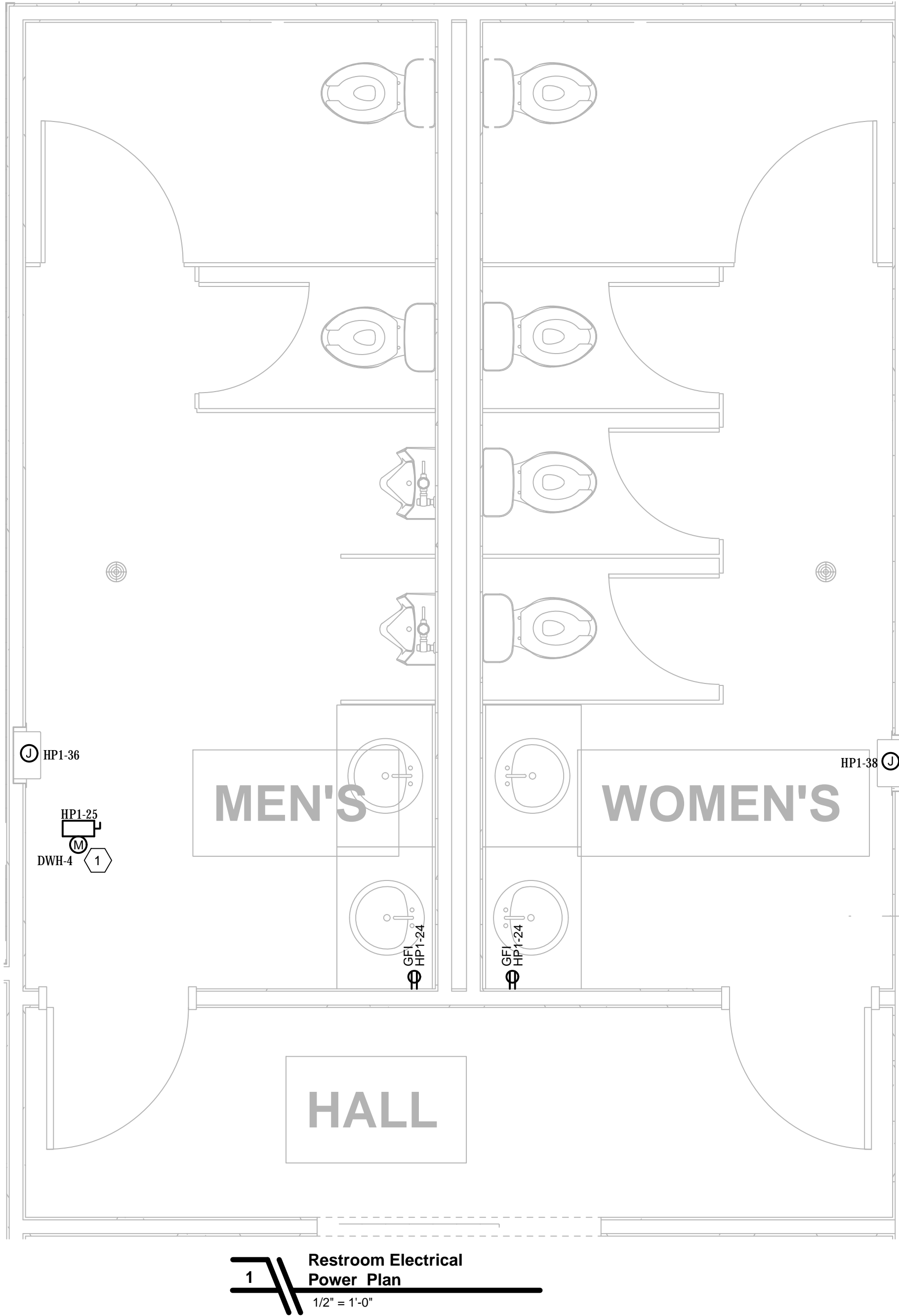
Revision Schedule

#	DATE	DESCRIPTION
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Project #: 19027
Issue Date: 08/21/2019

E2.03

Charley's Electrical
Power Plan



RR GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
3. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS, LOUVER SIZES, ETC. WITH GENERAL TRADES.
4. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO FABRICATION OF ANY WORK.
5. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF CEILING GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS.
6. DUCTWORK SHALL NOT BE LOCATED ABOVE ANY ELECTRICAL PANELS OR EQUIPMENT.
7. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILINGS FOR ALL EQUIPMENT WHICH REQUIRES ACCESS.
8. ALL MECHANICAL EQUIPMENT, PIPING, VALVES, DAMPERS ETC. WHICH REQUIRE ROUTINE MAINTENANCE OR INSPECTION SHALL BE INSTALLED WITHIN 2'-0" OF THE FINISHED CEILING HEIGHT.
9. MAINTAIN OUTDOOR AIR INTAKES MINIMUM 10'-0" FROM VENTS / EQUIPMENT.

SHEET KEYNOTES

1. WATER HEATER 'DWH-4' TO BE MOUNTED ON SHELF ABOVE. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.



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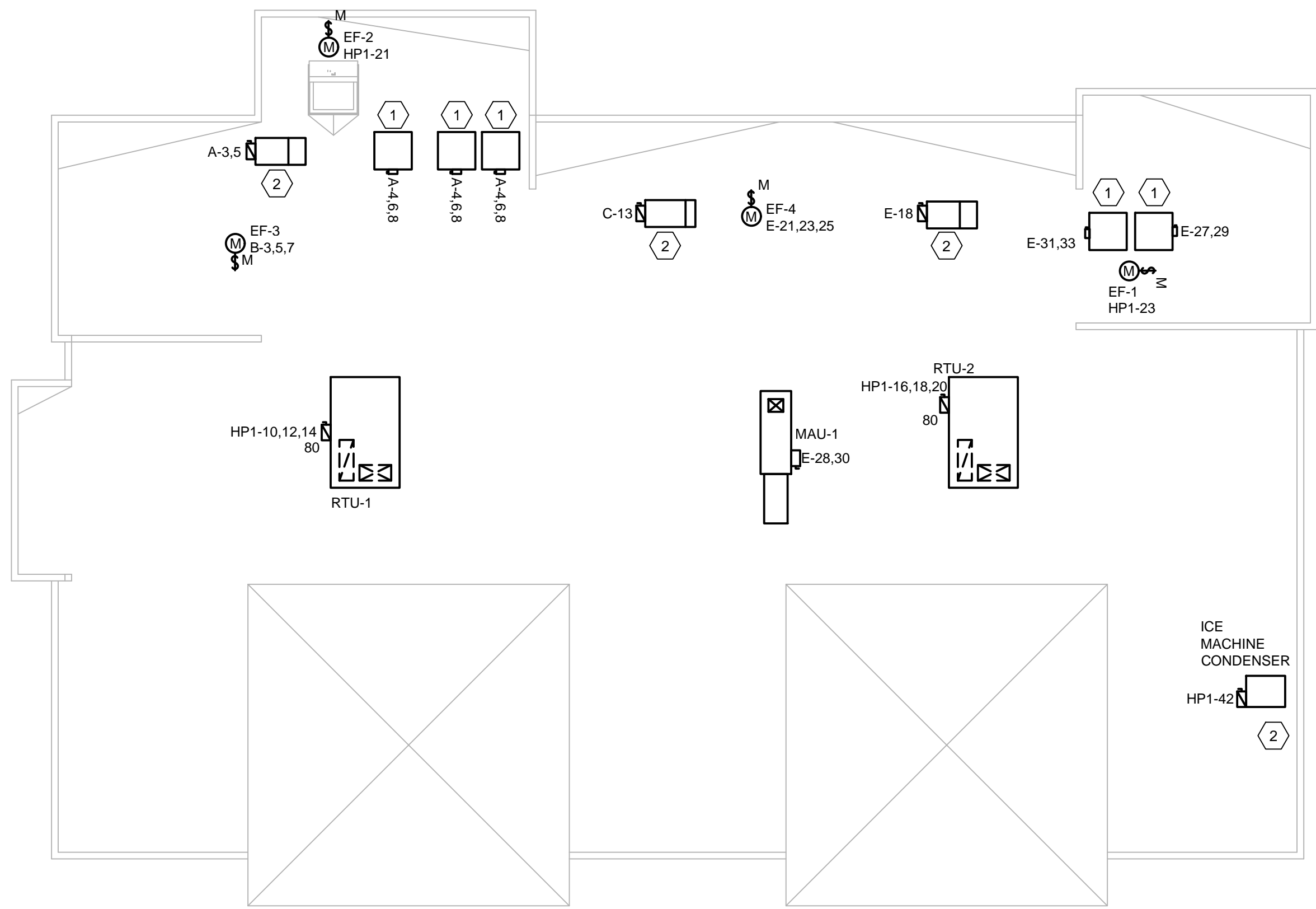
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Issue Description: ISSUED FOR PERMIT		
Revision Schedule		
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Project #:	19027
Issue Date:	08/21/2019

E2.04

Restroom Electrical
Power Plan



Roof Electrical
Power Plan
1/8" = 1'-0"

ROOF GENERAL NOTES

1. REFER TO THE FOLLOWING: SYMBOL LEGEND(S) AND NOTES: DWG. E0.01; ELECTRICAL SPECIFICATIONS: DWG'S E1.10 THRU E1.11; ELECTRICAL ONE LINE DIAGRAM(S): DWG. E6.01; AND ELECTRICAL SCHEDULES: DWG. E7.02 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, FURNITURE SYSTEMS, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THEIR RESPECTIVE DISCIPLINE DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
3. REVIEW AND COORDINATE WITH ALL TRADES' CONTRACT DOCUMENTS AND CONTRACTORS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR EQUIPMENT WITH ELECTRICAL CONNECTIONS. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE.
4. MINIMUM CONDUCTOR SIZE FOR 277 VOLT BRANCH CIRCUITING SHALL BE #12AWG. FOR 277 VOLT BRANCH CIRCUITS WITH HOMERUNS OVER 125 LINEAR FEET A MINIMUM CONDUCTOR SIZE OF #10AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. ASSOCIATED EQUIPMENT GROUNDING CONDUCTOR SHALL ALSO BE INCREASED PER N.E.C. ARTICLE 250.122(B) REQUIREMENTS.
5. MINIMUM CONDUCTOR SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE #12AWG. FOR 120 VOLT BRANCH CIRCUITS WITH HOMERUNS OVER 75 LINEAR FEET, A MINIMUM WIRE SIZE OF #10AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. FOR 120 VOLT BRANCH CIRCUITS WITH HOMERUN OVER 150 LINEAR FEET, A MINIMUM WIRE SIZE OF #8AWG SHALL BE PROVIDED FROM FIRST JUNCTION BOX TO BRANCH CIRCUIT PANELBOARD. ASSOCIATED EQUIPMENT GROUNDING CONDUCTOR SHALL ALSO BE INCREASED PER N.E.C. ARTICLE 250.122(B) REQUIREMENTS.
6. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN (2)#12AWG, (1)#12 EG, 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
7. ALL BRANCH CIRCUITS SHALL BE RUN WITH AN INDIVIDUAL NEUTRAL WIRE. BRANCH CIRCUITS SHALL NOT SHARE NEUTRAL WIRES.
8. RECEPTACLE BRANCH CIRCUITS MAY SHARE EQUIPMENT GROUND CONDUCTORS. ALL SHARED EQUIPMENT GROUND CONDUCTORS SHALL BE #10 AWG MINIMUM.
9. ALL CONDUCTORS SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
10. A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

SHEET KEYNOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL CABLES AND CONNECTIONS, AS REQUIRED, OF ALL COMPONENTS THAT ARE PART OF THE WALK-IN COOLER & FREEZER TO BE FULLY FUNCTIONAL.
2. REMOTE CONDENSER FOR ICE MACHINE ON ROOF TO BE FURNISHED AND INSTALLED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL CABLES AND CONNECTIONS, AS REQUIRED, FOR ALL COMPONENTS TO BE FULLY FUNCTIONAL.



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Project #: 19027
Issue Date: 08/21/2019

E2.05

Roof Electrical
Power Plan

POS-COMMUNICATIONS EQUIPMENT SCHEDULE

QTY	DESCRIPTION	LOCATION	VOLTS	LOAD AMPS	CB	TRANS FORMER	LOVO TERM	REMARKS
POS EQUIPMENT								
1	4	POINT OF SALES TERMINAL (POS)	(2) FRONT COUNTERS (1) D/T POS (1) D/T OT	100-120V	2.0	20A/1P	NO	RJ45 SHARES CIRCUIT WITH POS ITEMS 2 & 12
2	3	RECEIPT PRINTER	(2) FRONT COUNTERS (1) D/T POS	100-240V	2.0	20A/1P	YES	RJ45 SHARE CIRCUIT WITH POS ITEMS 1 & 12
3	6	PREP PRINTER	(1) BAKERY (1) ESPRESSO (2) SANDWICH (2) BEVERAGE STATION	24/34V	1.2	20A/1P	YES	RJ45
4	6	VDU	(2) BEVERAGE STA (2) SANDWICH STA (1) EXPEDITER & D/T (1) EXPEDITER & HAND OFF	100-240V	1.5	20A/1P	NO	N/A SHARES CIRCUIT
5	6	VDU CONTROLLER (PC BASED)	(1) EXPEDITER & D/T (1) EXPEDITER & HAND OFF	100-120V	1.0	20A/1P	YES	RJ45
6	1	POS NETWORK HUB/ SWITCH	PREFERRED LOCATION IS OFFICE. HOWEVER, IT CAN GO IN POS COFFEE FRONT CHASE	100-120V	0.5	20A/1P	YES	RJ45 SHARES CIRCUIT WITH POS ITEMS 1, 2 & 12
7	1	PC SITE CONTROLLER EXTERNAL	OFFICE	100-120V	4.0	20A/1P	NO	RJ45
7a	1	PC SITE CONTROLLER INTERNAL	OFFICE	100-120V	4.0	20A/1P	NO	RJ45
8	1	PRINTER/FAX/COPIER (BOH)	OFFICE	100-120V	8.2	20A/1P	NO	N/A
9	3	SCANNER	(2) FRONT COUNTERS (1) D/T POS				NO	RJ45 CONNECTED TO POS UNITS
10	3	PRICE CONFIRMATION DISPLAY	MOUNT OUTSIDE @ D/T WINDOW & BEHIND FRONT POS UNITS				NO	RJ45 CONNECTED TO D/T POS UNIT
11	0	NOT USED						
12	3	CASH DRAWER	UNDER CTR @ FRONT & ASV CTR @ D/T	N/A	N/A		NO	RJ45 SHARES CIRCUIT WITH POS ITEMS 1 & 2
13	1	COIN DISPENSER	(1) D/T COUNTER	N/A	N/A		NO	RJ45 VERIFY ALL ELECT & POS REGTS W/ MANUF
14	3	PAYMENT TERMINAL	(2) FRONT COUNTER (1) D/T POS	100-240V	0.5	20A/1P	NO	RJ45 VERIFY ALL ELECT & POS REGTS W/ MANUF
14a	3	VERIFONE SWITCH	(1) FRONT COUNTER (1) D/T POS					CONNECTED TO POS (1)
30	1	ORDER STATUS BOARD	(1) FRONT COUNTER					VERIFY ALL ELECT & POS REGTS W/ MANUF
OTHER COMMUNICATION DEVICES								
15	1	DRIVE THROUGH (DT) TIMER CONSOLE	OFFICE	120V	N/A		NO	RS232 MUST BE WITHIN 60FT OF DISPLAY
16	1	DT TIMER VDU DISPLAY	NEAR DT, VISIBLE TO ENTIRE SERVICE AREA	LOW VOLT	N/A		NO	
PHONE & DATA LINES								
18	0	SPARE	OFFICE	LOW VOLT	N/A		N/A	RJ45
19A	0	SPARE	OFFICE	LOW VOLT	N/A		N/A	RJ45
20	1	FAX LINE	OFFICE	LOW VOLT	N/A		N/A	RJ45 FAX LINE FOR OFFICE
21	1	PHONE LINE	OFFICE	LOW VOLT	N/A		N/A	RJ45 PHONE LINE FOR OFFICE
22	0	NOT USED						
23	1	HIGH SPEED INTERNET LINE (MS)	OFFICE	LOW VOLT	N/A		N/A	RJ45 FOR SITE CONTROLLER & BOH PC
24	1	SYSTEM SECURITY DVR	SECURITY SYSTEM	LOW VOLT	N/A		N/A	RJ45 PLUGS INTO ROUTER PORT#2
25	8	DIGITAL MENU BOARD	OFFICE/SERVICE AREA	LOW VOLT	N/A		N/A	RJ45 PLUGS INTO ROUTER PORT#4
26	1	WIFI	OFFICE	LOW VOLT	N/A		N/A	RJ45 PLUGS INTO ROUTER PORT#5
26a	0	SECONDARY WIFI ACCESS POINT (OPT)	OFFICE	LOW VOLT	N/A		N/A	RJ45 PLUGS INTO ROUTER
27	1	OTT VOIP (PHONE)	OFFICE	LOW VOLT	N/A		N/A	RJ45 PLUGS INTO ROUTER
MUSIC SYSTEM								
28	1	MUSIC PLAYER	OFFICE					
29	0	NOT USED						
WORKSTATION								
31	1	MANAGER'S WORKSTATION	OFFICE					
32	0	MANAGER'S WORKSTATION (OPT)						
FIREWALL								
33	1	FIREWALL	OFFICE	LOW VOLT	N/A		N/A	RJ45
34	1	BROADBAND MODEM	OFFICE	LOW VOLT	N/A		N/A	RJ45
35		TEMPORARY WIRELESS BROADBAND DIAL-UP DATA SOLUTION	OFFICE					
36		NOT USED						
37		NOT USED						
SWITCHES								
38	1	SWITCH	OFFICE					
39	1	DD UTILITY SWITCH (OPT)	OFFICE					
40	1	DVR NETWORK SWITCH	OFFICE					
41	1	DIGITAL MENU BOARD SWITCH	OFFICE					
42	1	KIOSK SWITCH	OFFICE					
43								
44								
MENU BOARD								
45	1	INT DIGITAL MENU BOARDS						
46	2	EXT DIGITAL MENU BOARDS	EXTERIOR DRIVE THRU					
47	1	DRIVE PREVIEW BOARD	EXTERIOR DRIVE THRU					
48	1	ORDER CONFIRMATION BOARD	EXTERIOR DRIVE THRU					
49	1	NOT USED						

DIGITAL MENU BOARD RESPONSIBILITIES:

SC POWER/DATA RESPONSIBILITY

- EG TO RUN DEDICATED CONDUIT FROM POWER PANEL TO JUNCTION BOX ON BACK SIDE OF MENU BOARD FASCIA AT CENTER LINE OF POS
- EG TO RUN CONDUIT WITH J-BOX FROM BACK SIDE OF MENU BOARD FASCIA AT CENTERLINE OF POS TO OFFICE

DMB VENDOR POWER/DATA RESPONSIBILITY

- CUT HOLE IN MENU BOARD FASCIA FOR POWER/DATA STACK
- IN STALL POWER/DATA STACK IN FASCIA
- RUN ELECTRICAL CONDUCTOR WIRE FROM MENU BOARD FASCIA TO ELECTRICAL PANEL
- MAKE FINAL ELECTRICAL CONNECTION AT POWER/ DATA STACK
- MAKE FINAL ELECTRICAL CONNECTION TO CIRCUIT AT POWER PANEL
- RUN CAT-5E CABLES AND TERMINATE ENDS AT MENU BOARD FASCIA POWER/DATA STACK AND IN OFFICE

*PRIOR TO BIDDING OR PERFORMING WORK SC TO COORDINATE WITH AUTHORITY HAVING JURISDICTION (AHJ). AHJ MAY REQUIRE FULL WIRE PREP BY EG. SC TO ALERT CM, FEE AND DMB INSTALLER IF EG MUST PERFORM ALL ELECTRICAL INSTALL WORK.

CONDUIT NOTES:

- DMB PROVIDE (8) CAT 5 WIRE PULLS FROM (2) QUAD DATA OUTLETS IN MENU BOARD SOFFIT TO (2) QUAD DATA OUTLETS IN OFFICE WALL
- 3 CONDUITS MIN SHALL BE USED BETWEEN OFFICE & OTHER PARTS OF THE STORE
 - 1 CONDUIT FOR POS WIRING ONLY
 - 1 CONDUIT FOR NON-POS ITEMS

KIOSK NOTES:

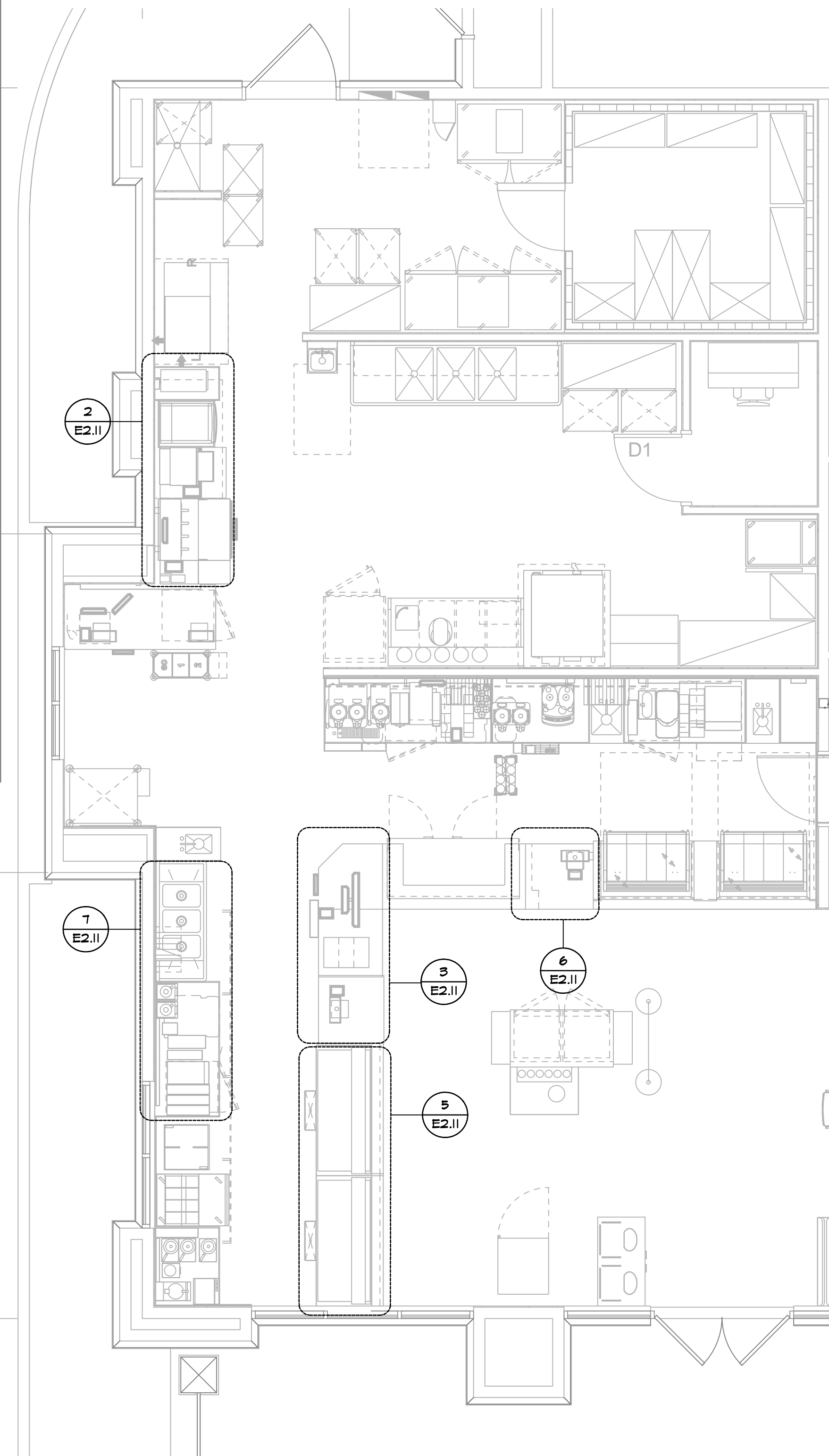
- SC/EG TO PROVIDE A POWER / POS STUB UP FROM THE FLOOR FOR KIOSK CONNECTIONS
- 20A CIRCUIT & (3) CAT-6 DATA CABLES EA - ALL WIRING & FINAL LOCATIONS TIED IN FIELD W/ FRANCHISEE & MANUF REQUIREMENTS
- PROVIDE WIRING FROM KIOSK TO FRONT LINE POS AREA FOR "REMOTE ASSISTANCE" w/ LIGHT AT POS UNIT - CONFIRM ALL REQUIREMENTS w/ MANUF.

POS LEGEND

POS	POINT OF SALES TERMINAL
VDU	VIDEO DISPLAY UNIT
R	ROUTER
SC	SITE CONTROL (SELF-MOUNTING) RADIANT ONLY
RP	RECEIPT PRINTER
PP	PREP PRINTER
FAX	FAX
BOH PC	BACK-OFF-HOUSE PC
UPS	UPS
M	MODEM
SW	SWITCH
OT	ORDER TAKER TERMINAL
DTG	DRIVE THROUGH CONSOLE
DTT	DRIVE THROUGH TIMER
VS	VERIFONE SWITCH
PT	PAYMENT TERMINAL
CASH DR	CASH DRAWER
CD	COIN DISPENSER
MMS	MANAGER'S WORKSTATION
DVR	DVR SECURITY SYSTEM
CAM	SECURITY SYSTEM CAMERA
PCD	PRICE CONFIRMATION DISPLAY
PCD	ORDER STATUS BOARD
KIOSK SW	KIOSK SWITCH
DMB SW	DIGITAL MENU BOARD SWITCH
DMB	DIGITAL MENU BOARD
EXT DMB	DRIVE THRU EXTERIOR DIGITAL MENU BOARD
TEMP M	TEMP WIRELESS DIAL UP
OCB	DRIVE THRU ORDER CONFIRMATION BOARD
DPB	DRIVE THRU DIGITAL PREVIEW BOARD
DPB	DRIVE THRU DIGITAL PREVIEW BOARD
OTT VOIP	OTT VOICE OVER-IP VOIP (PHONE)
BUMP BAR	BUMP BAR
VIDEO DISPLAY UNIT	VIDEO DISPLAY UNIT
PRINTER	PRINTER
POINT OF SALE TERMINAL	POINT OF SALE TERMINAL
SCANNER	SCANNER
POS EQUIPMENT TAG	POS EQUIPMENT TAG
DUPLEX RECEPTACLE	DUPLEX RECEPTACLE
DATA OUTLET, RJ45	DATA OUTLET, RJ45

GENERAL NOTES:

- REFER TO HTTP://EXTRANET.DUNKINBRANDS.COM FOR A LISTING OF APPROVED POS VENDORS BY CONCEPT.
- FINAL POS DRAWINGS NEED TO BE PROVIDED TO POS VENDOR THAT IS SELECTED.
- POS VENDORS REQUIRE DEDICATED ISOLATED GROUNDED (DIG) OUTLETS ON A 20 AMP CIRCUIT DEDICATED ONLY TO POS EQUIPMENT. 60HZ, 120V+10%. ALL POS TERMINALS AND VIDEO DISPLAY DEVICES REQUIRE A DUPLEX OUTLET. THE BACK OFFICE CONTROLLER REQUIRES A QUAD OUTLET. THE NETWORK SWITCH REQUIRES A DUPLEX. IF FEDERAL, STATE, AND LOCAL WIRING CODES DO NOT MEET THIS REQUIREMENT, CONTACT THE POS VENDOR FOR INFORMATION ON ADDITIONAL EQUIPMENT THAT CAN BE PURCHASED TO MEET THIS REQUIREMENT. IF THIS REQUIREMENT IS NOT MET, THE POS SYSTEM WARRANTY IS INVALID.
- ALL POWER INDICATED ON THIS PLAN MUST HAVE A THIRD WIRE, ISOLATED GROUND, AND BE TERMINATED WITHIN (4) FEET OF THE DEVICE.
- IG-5362 RECEPTACLES MUST BE USED FOR ALL POS UNITS. VDU UNITS AND SITE CONTROLLER UNIT (IN OFFICE). LABEL RECEPTACLES "POS ONLY".
- ALL LOW VOLTAGE WIRE SHALL BE CATEGORY 5e UNLESS OTHERWISE INDICATED.
- ALL LOW VOLTAGE CABLE TERMINATIONS SHALL BE BY THE ELECTRICAL CONTRACOR
- LOW VOLTAGE CABLE RUN IN 1½" CONDUIT FOR POS EQUIPMENT ONLY, AND MUST BE TERMINATED WITH RJ45 JACKS. ALL POS EQUIPMENT LINES TERMINATE AT THE FRONT COUNTER CHASE.
- A 12" MINIMUM SEPARATION MUST BE MAINTAINED BETWEEN LOW VOLTAGE WIRES AND POWER WIRING (TO AVOID ELECTRICAL INTERFERENCE).
- BRAND REQUIREMENTS DICTATE THAT A MINIMUM OF THREE CONDUITS BE USED FOR DATA LINES BETWEEN THE OFFICE AND OTHER PARTS OF THE STORE- ONE CONDUIT IS TO BE DEDICATED TO POS WIRING, ONE FOR DIGITAL MENUBOARD DATA LINES, AND ANOTHER FOR NON-POS ITEMS (I.E. SECURITY CAMERAS, DT TIMERS, HEAD SET WIRING)
- EXACT # OF RECEPTACLES ON OFFICE MUST BE COORDINATED ON A PROJECT-BY-PROJECT BASIS IN TERMS OF EQUIPMENT LOCATED IN THE OFFICE
- ALL CEILING MOUNTED VDUs TO BE SUSPENDED FROM UNISTRUT BY THREADED ROD W/ WHITE PVC SLEEVE. CONNECT UNISTRUT TO ROOF STRUCTURE. VDU BY POS VENDOR; UNISTRUT & THREADED ROD BY G.C. UNISTRUT TO SUPPORT MINIMUM 50 LB. WEIGHT
- VDU MOUNTING HEIGHTS (TO BOTTOM OF MONITOR) ARE AS FOLLOWS:
 - SANDWICH STATION - 68" A.F.F.
 - DRIVE THRU - 61" A.F.F.
- DIGITAL MENUBOARD PREP WIRING:
 - PROVIDE BOX, PLATE AND 1" DIA. CONDUIT FROM FROM (2) QUAD DATA OUTLETS IN MENUBOARD SOFFIT TO (2) QUAD DATA OUTLETS IN OFFICE WALL. EITHER (A) PROVIDE PULL STRING IN EACH CONDUIT (CAT 5 CABLE AND FINAL DATA CONNECTIONS BY DMB VENDOR), OR (B) PROVIDE ALL CAT 5 CABLE AND FINAL CONNECTIONS TO DATA PLATES/BOXES- COORD. W/ FEE



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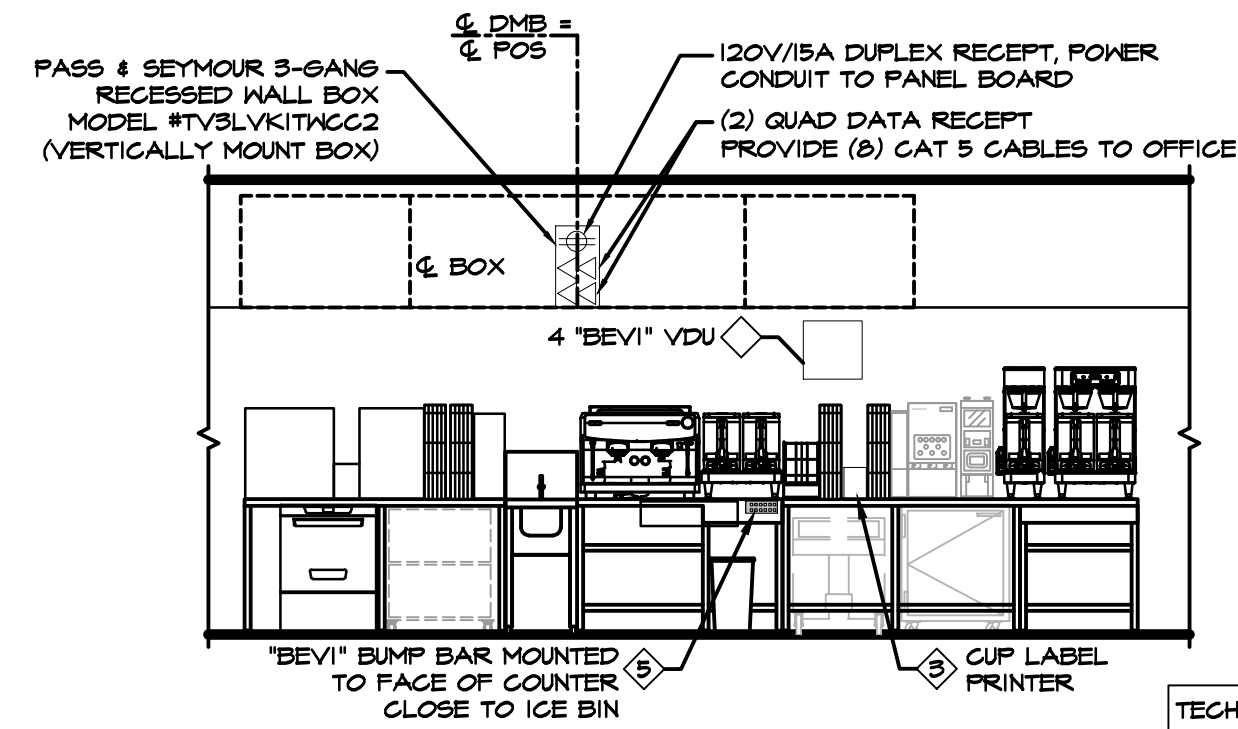
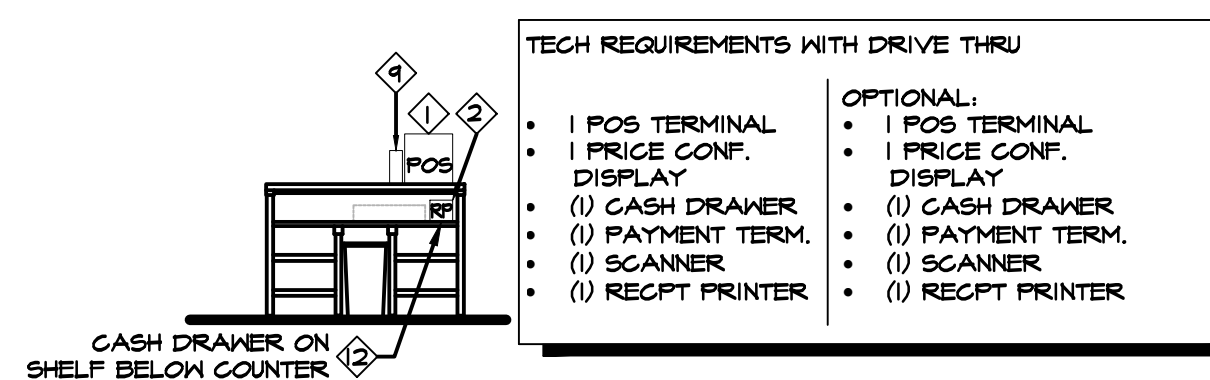
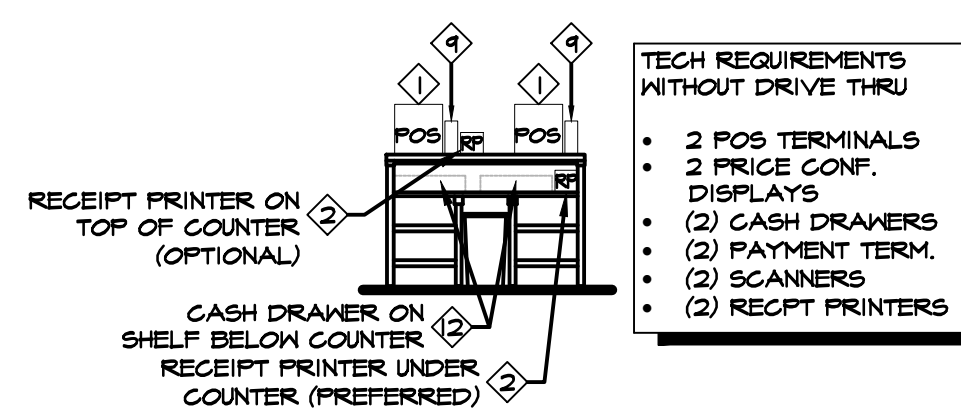
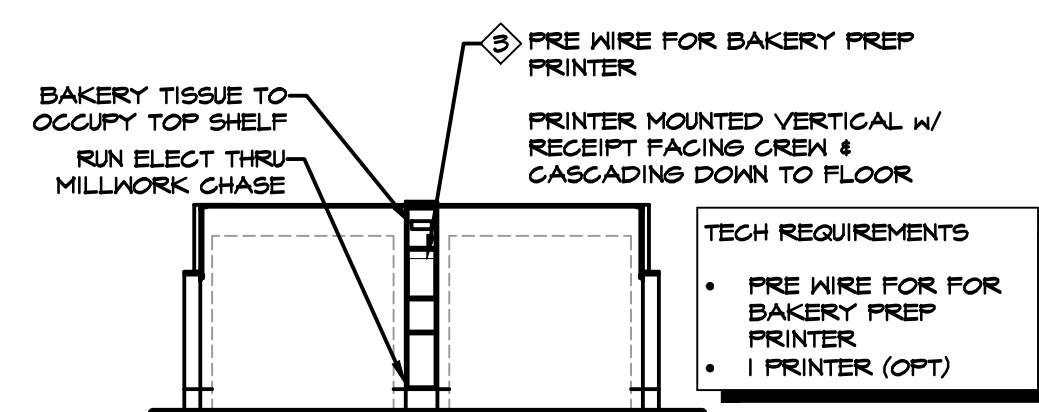
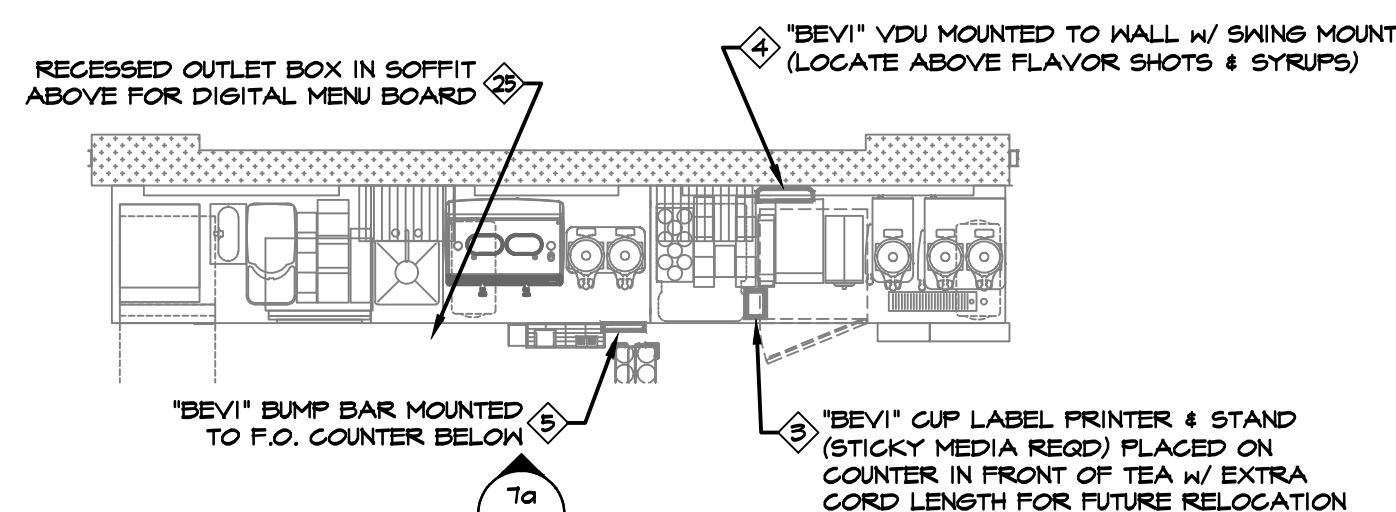
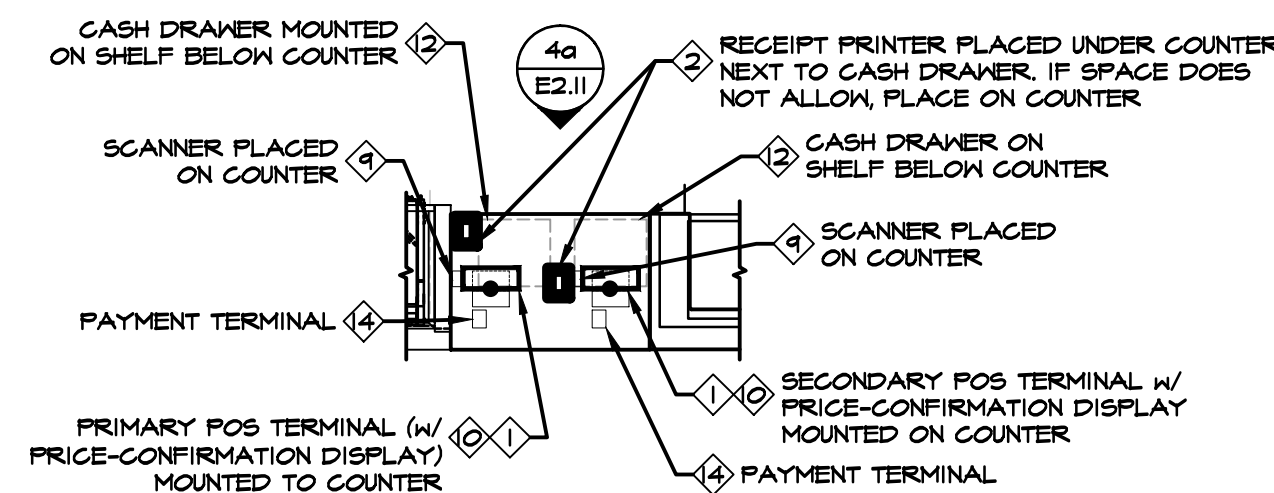
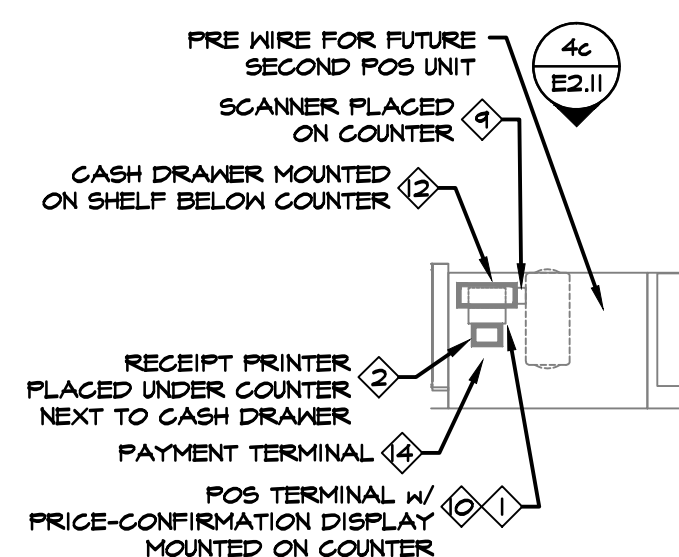
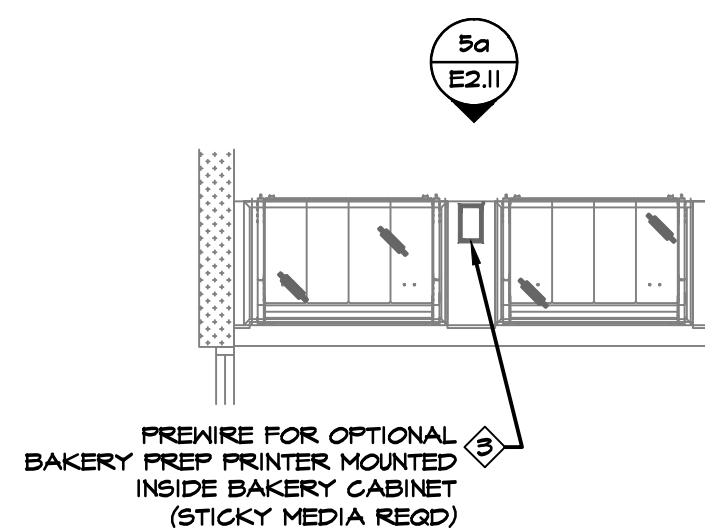
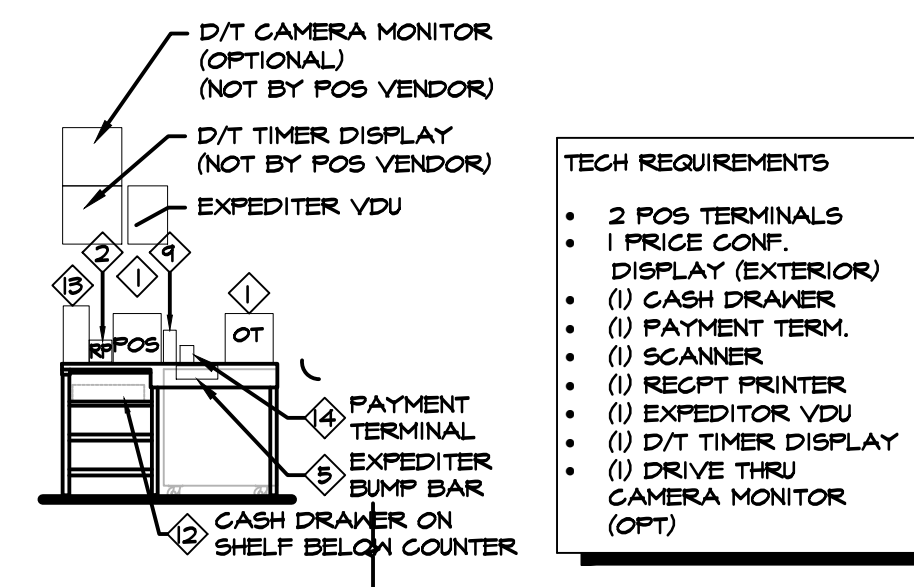
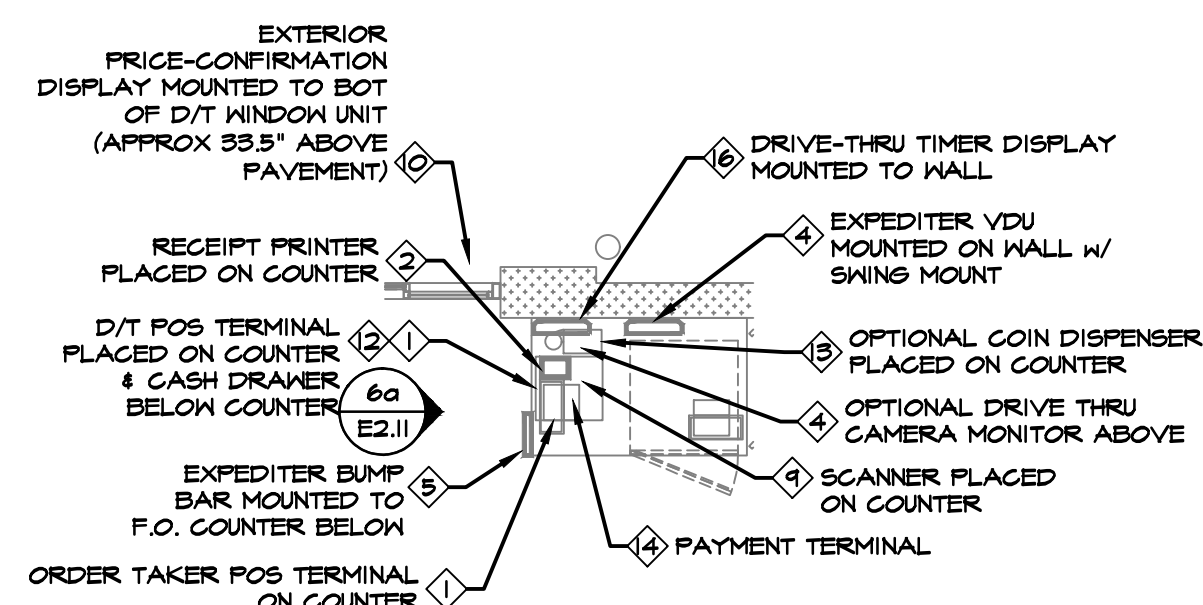
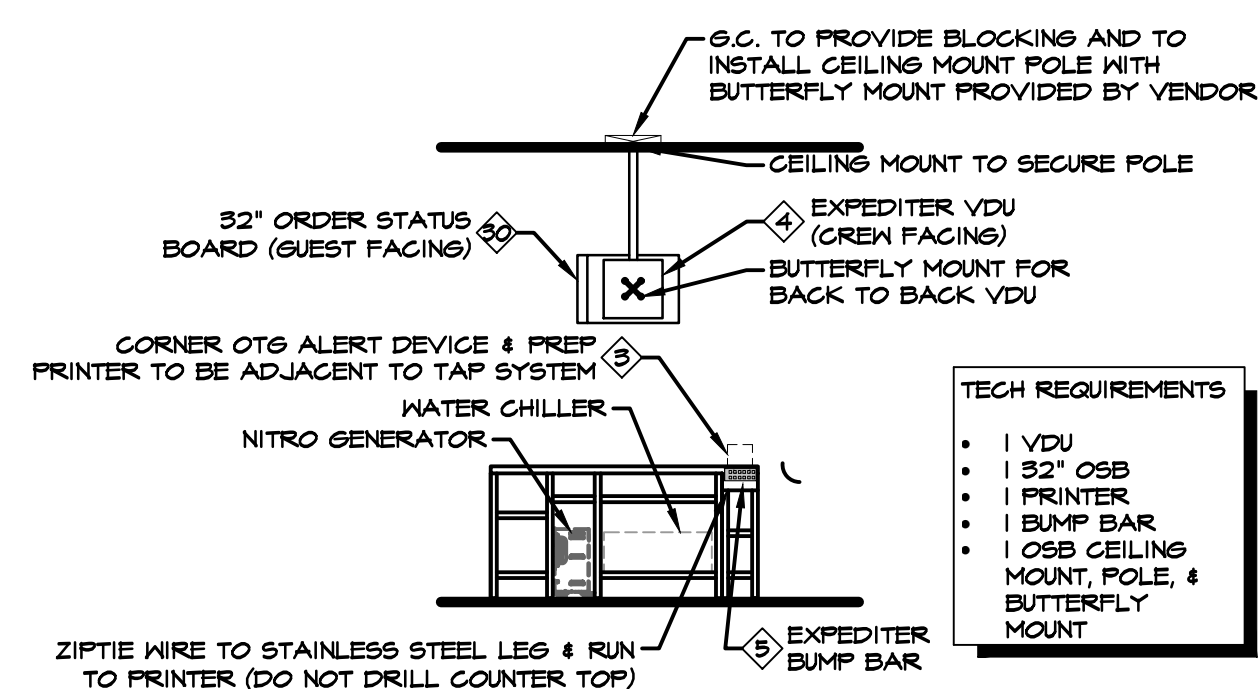
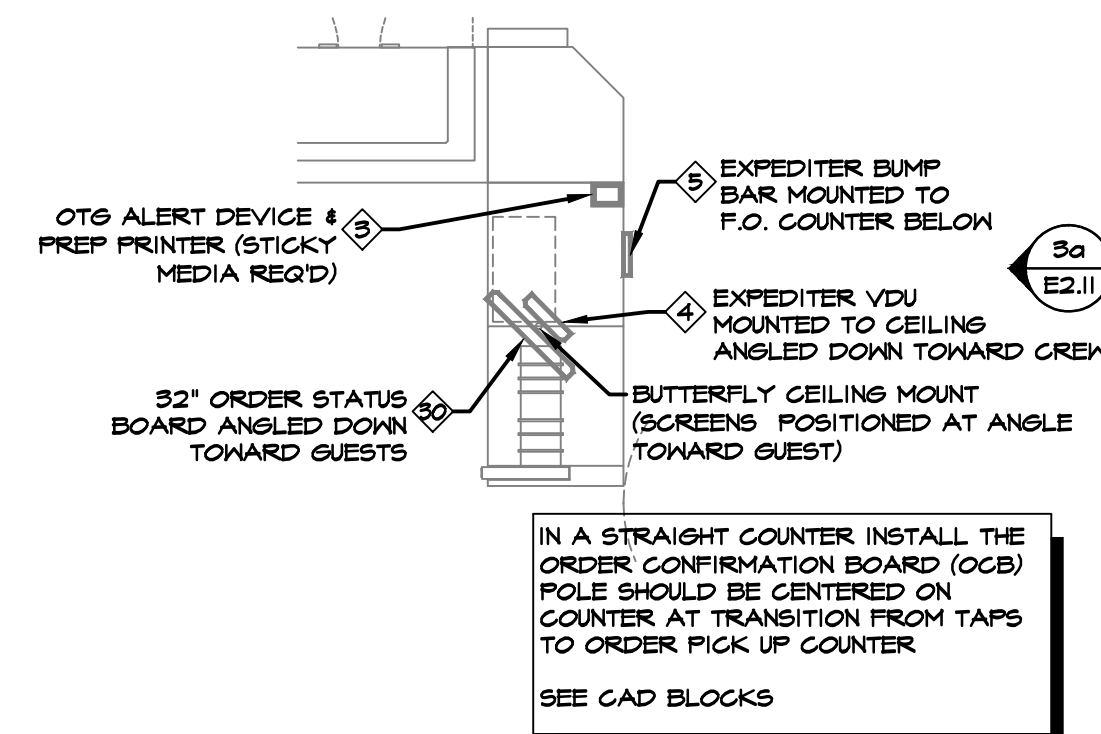
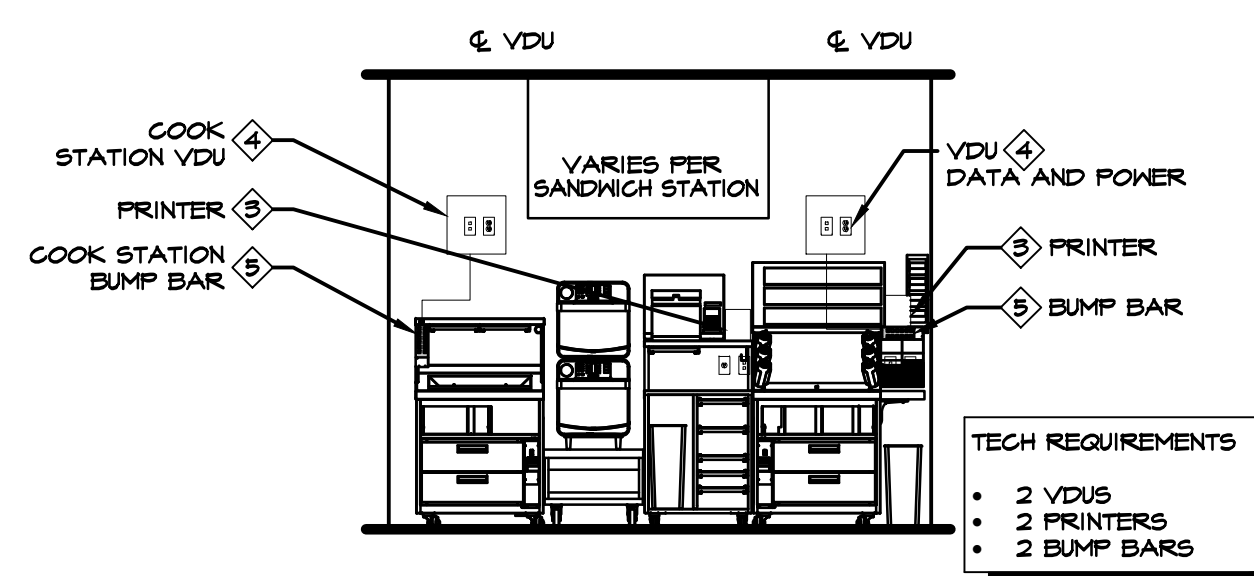
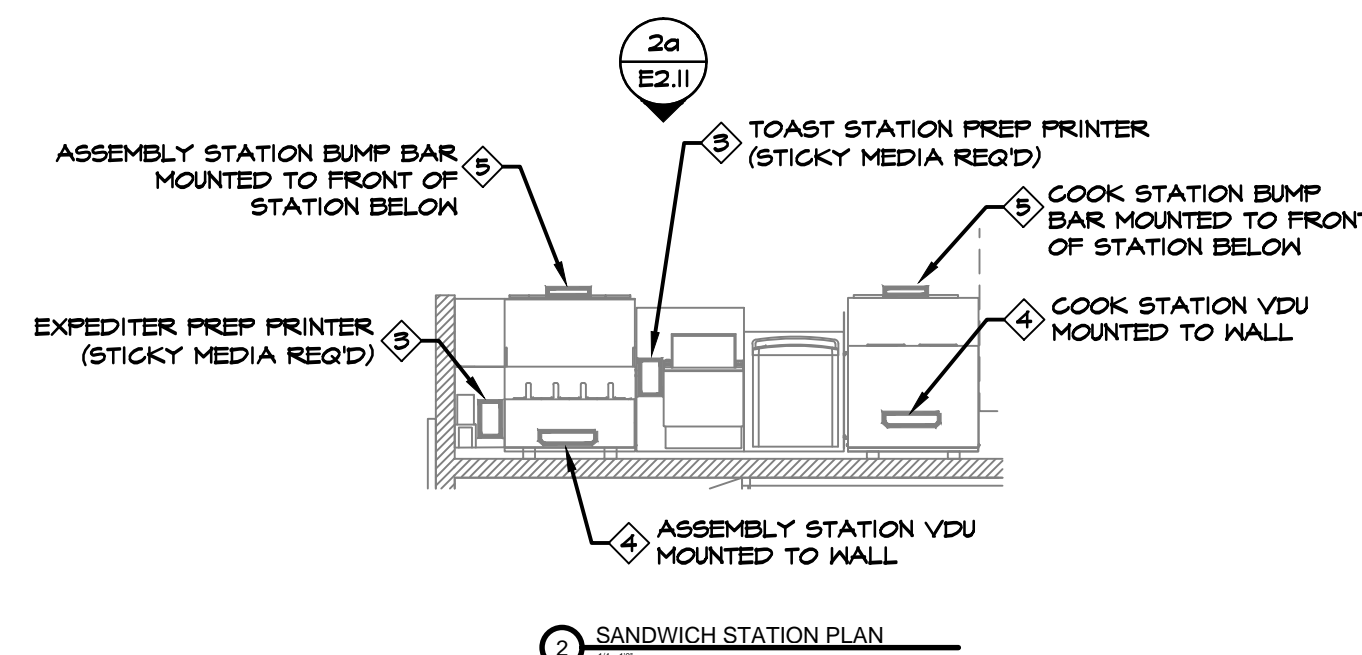
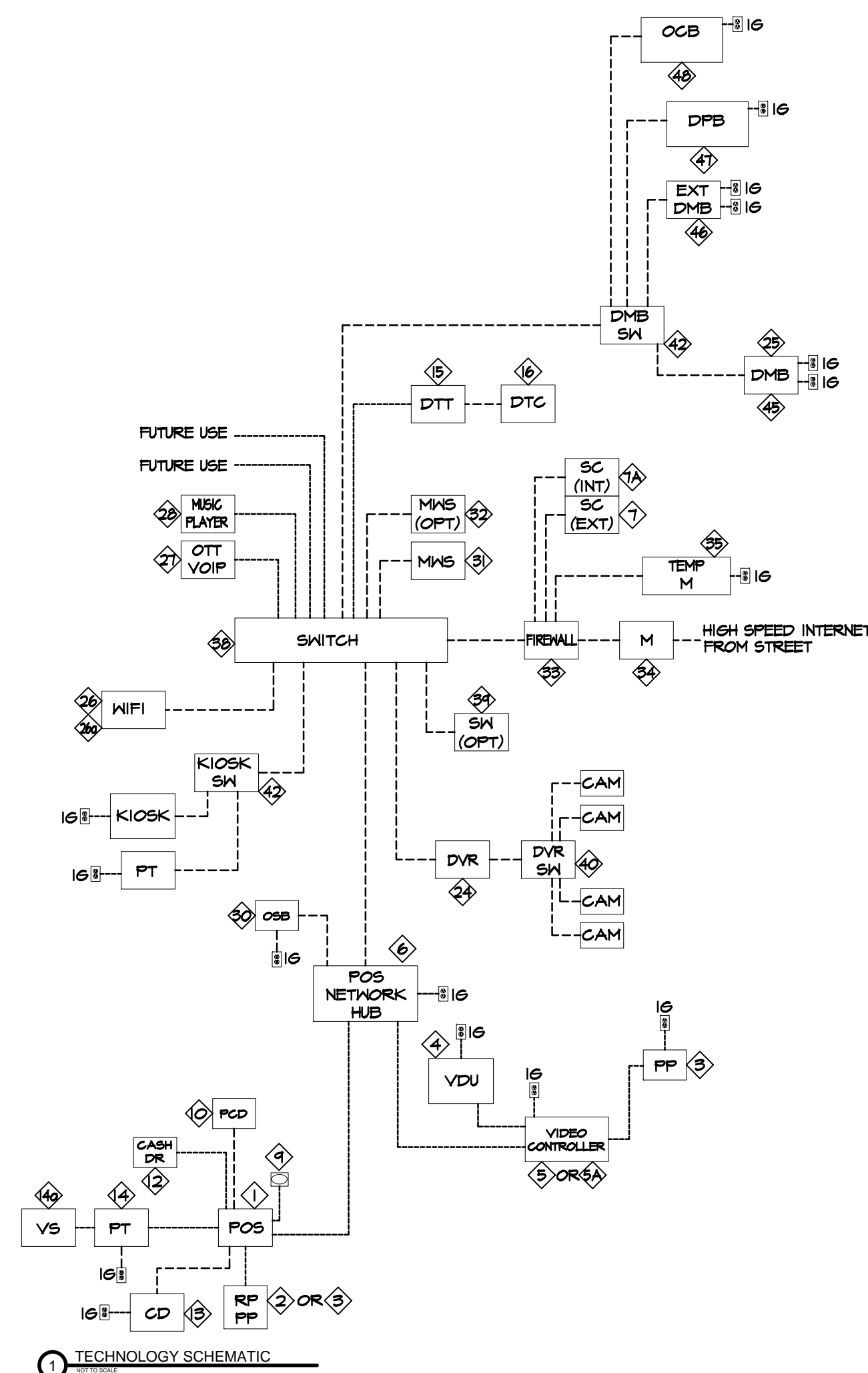
5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description:
ISSUED FOR PERMIT
Revision Schedule
DATE DESCRIPTION

Project #: 19027
Issue Date: 08/21/2019

E2.10

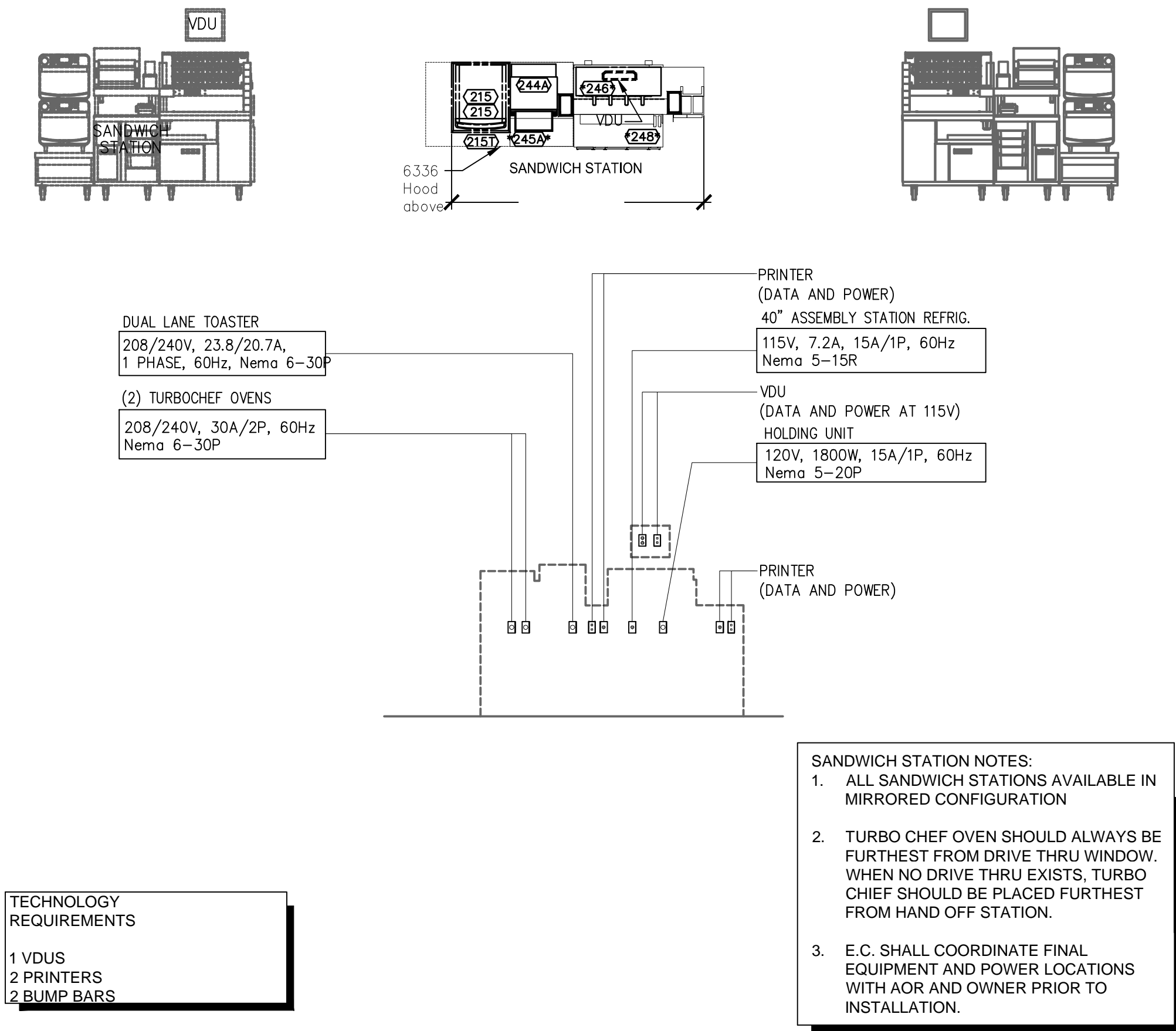
Dunkin Electrical
POS Plan



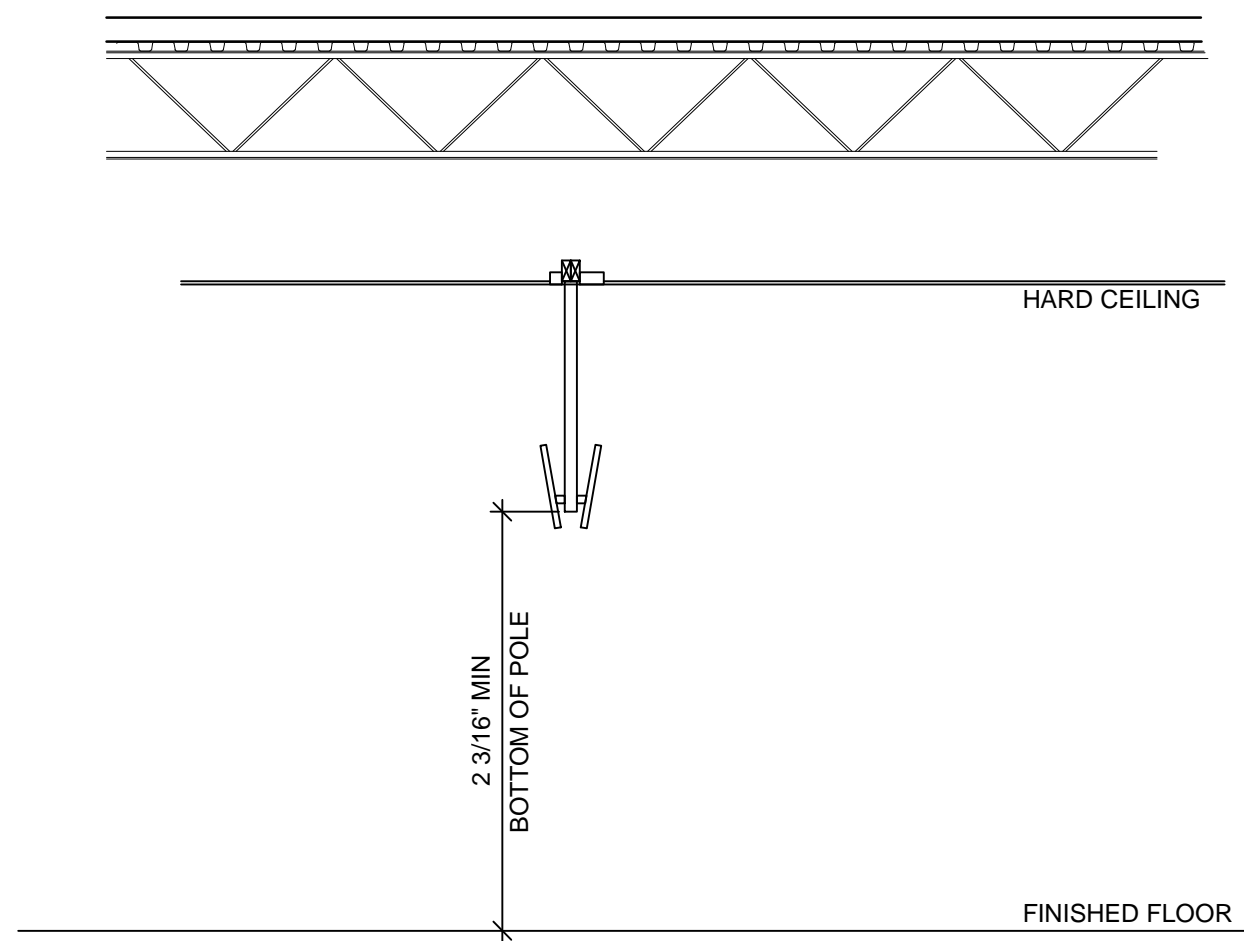
NOTE:

DETAILS SHOWN ARE FOR REFERENCE ONLY. E.C. SHALL VERIFY FINAL CONNECTIONS, LOCATIONS, AND POWER/DATA REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.

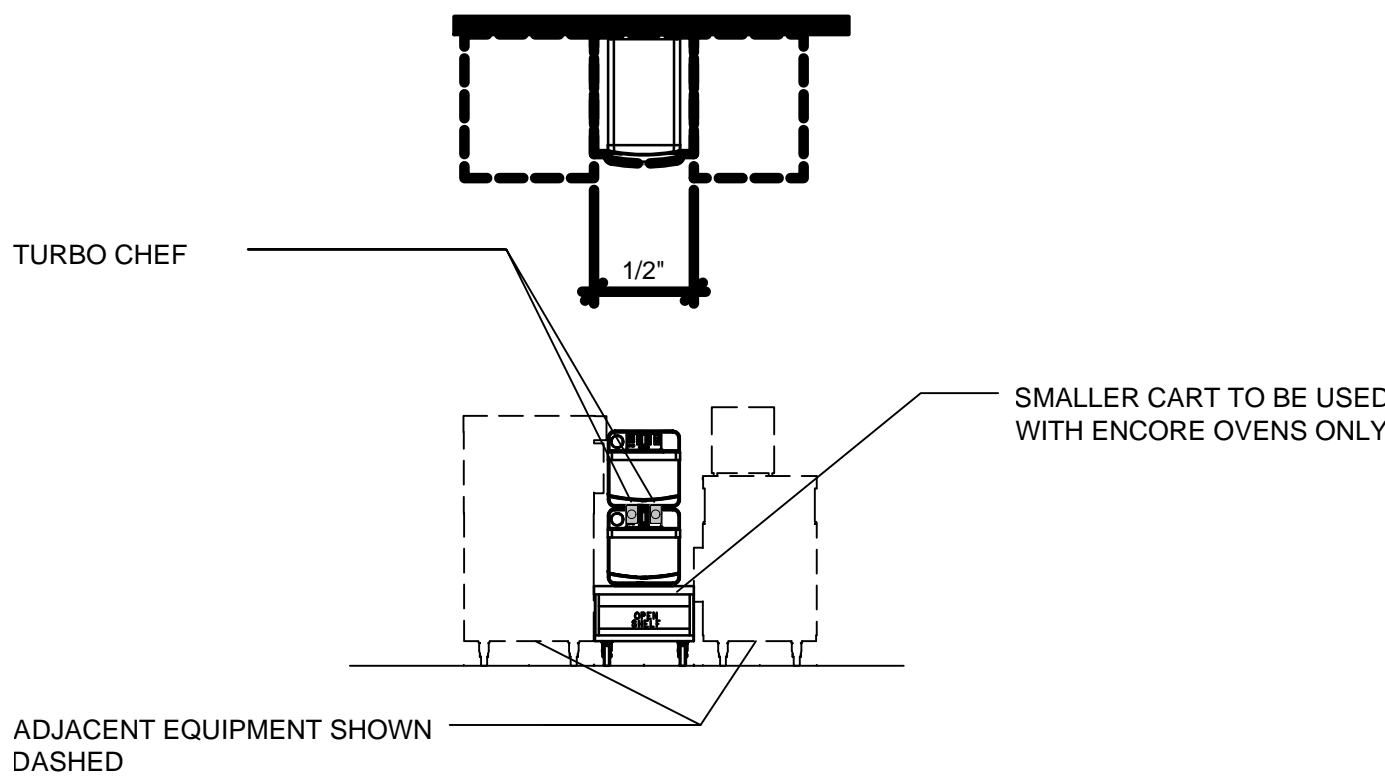
DUNKIN DONUTS DETAILS



1 8'-1 1/2" SANDWICH STATION
NOT TO SCALE



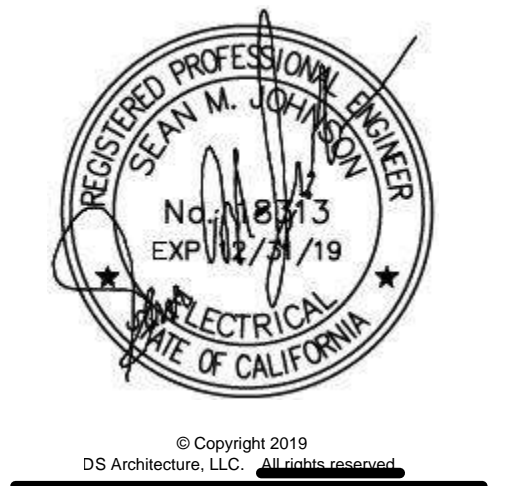
2 VIDEO HANGING BRACKET
NOT TO SCALE



3 SMALL TURBO CHEF CART - OPTION
NOT TO SCALE

SANDWICH STATION POWER SCHEDULE											
ITEM	DESCRIPTION	QTY	LOAD				CORD PLUG	RECEPTACLE	MTG HGT		REMARKS
			VOLTS	AMPS	CB	PHASE					
EF-1	EXHAUST FAN	**	**	**	**	**	NO		**		JBOX @ CEILING/ROOF LOCATION
MAU-1	MAKE-UP AIR UNIT	**	**	**	**	**	NO		**		JBOX @ CEILING/ROOF LOCATION
**	HASH BROWN FREEZER	**	115V	5.9	15A/1P	1Ø	YES	NEMA 5-15R	**		
**	COOK REFRIGERATOR w/ OVERSHELF	**	115V	7.2	15A/1P	1Ø	YES	NEMA 5-15R	**		
**	ASSEMBLY REFRIGERATOR w/ OVERSHELF	**	115V	7.2	15A/1P	1Ø	YES	NEMA 5-15R	**		
**	HOT HOLDING	**	208/240V	11.2	15A/2P	1Ø	YES	NEMA 6-15R	**		
**	TURBO CHEF OVEN	**	208/240V	30	30A/2P	1Ø	YES	NEMA 6-30R	**		
**	SINGLE LANE SMART TOASTER	**	208/240V	12.1	20A/2P	1Ø	YES	NEMA 6-20R	**		
**	DUAL LANE SMART TOASTER	**	208/240V	23.8	30A/2P	1Ø	YES	NEMA 6-30R	**		
**	BAGEL TOASTER	**	208V	15.9	20A/2P	1Ø	YES	NEMA L6-20R	**		
LOW VOLTAGE EQUIPMENT		QTY	VOLTS	AMPS	CB	TRANS FORMER	LOVO TERM	N/A	MTG HGT		REMARKS
11	VDU	**	100-240V	1.5	20A/1P	NO	N/A		**		** (4) LOCATED ABOVE CLG; (1) PLUGS INTO ITEM #5
11a	VDU CONTROLLER	**	100-120V	1.0	20A/1P	YES	RJ45		**		** (4) LOCATED ABOVE CLG; (1) PLUGS INTO ITEM #5
12	PRINTER	**							**		** PLUGS INTO ITEM #5
POWER SCHEDULE NOTES:											
1) MODIFY EXISTING ELECTRICAL PANELS TO ACCOMMODATE EQUIPMENT CIRCUITS AS REQD.											
2) THE ELECTRICAL CONTRACTOR IS REQUIRED TO VERIFY ALL ELECTRICAL REQUIREMENTS OF EQUIPMENT. COORD FINAL SPECS w/ DUNKIN' BRANDS.											
3) ALL RECEPTACLE MOUNTING HEIGHTS REFER TO CENTER OF RECEPTACLE.											

4 EQUIPMENT SCHEDULE
NOT TO SCALE



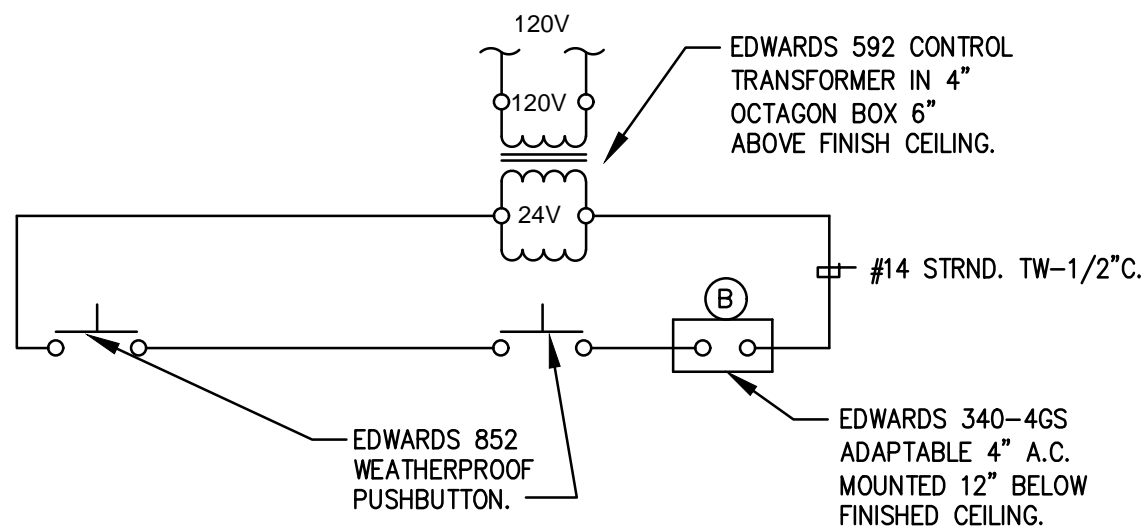
TravelCenters of America LLC
Tejon TravelCenter of America

5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

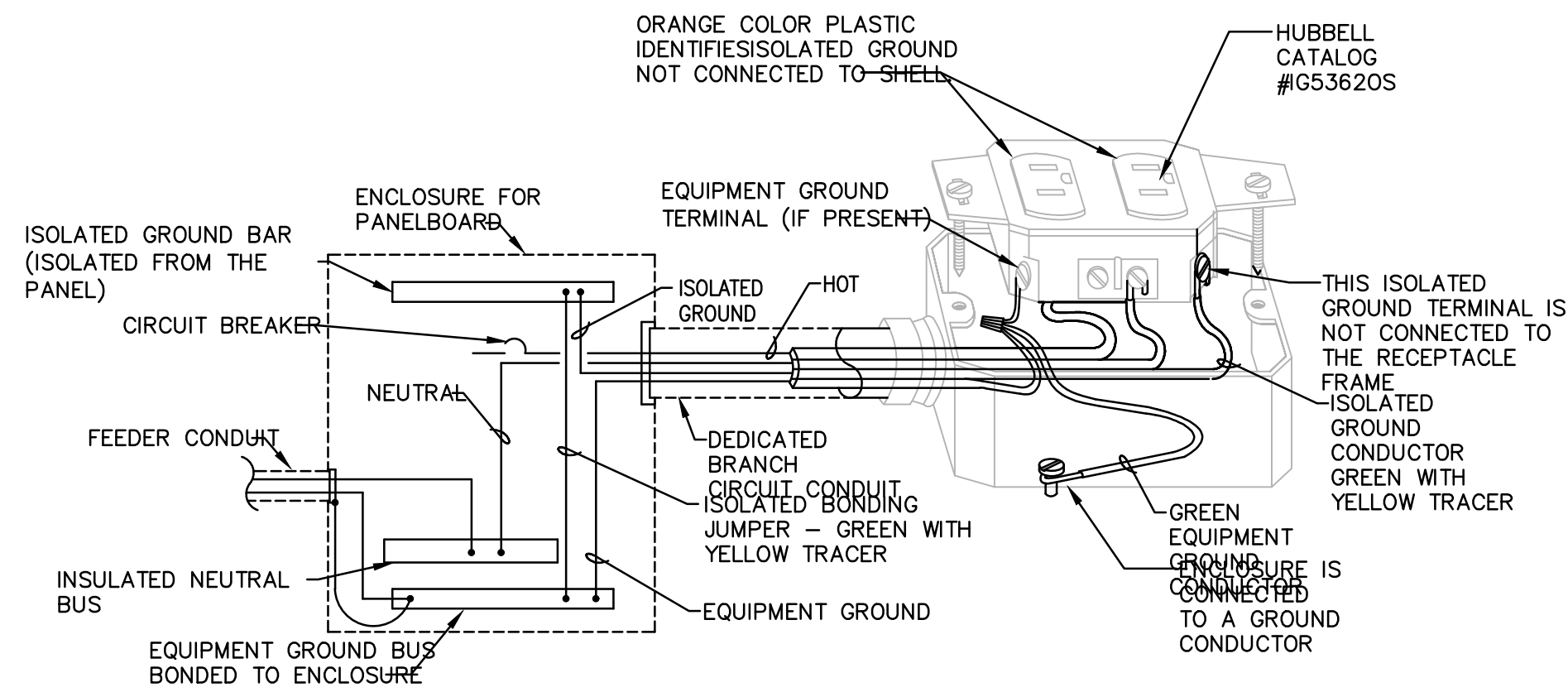
Issue Description:
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DATE DESCRIPTION

Project #: 19027
Issue Date: 08/21/2019

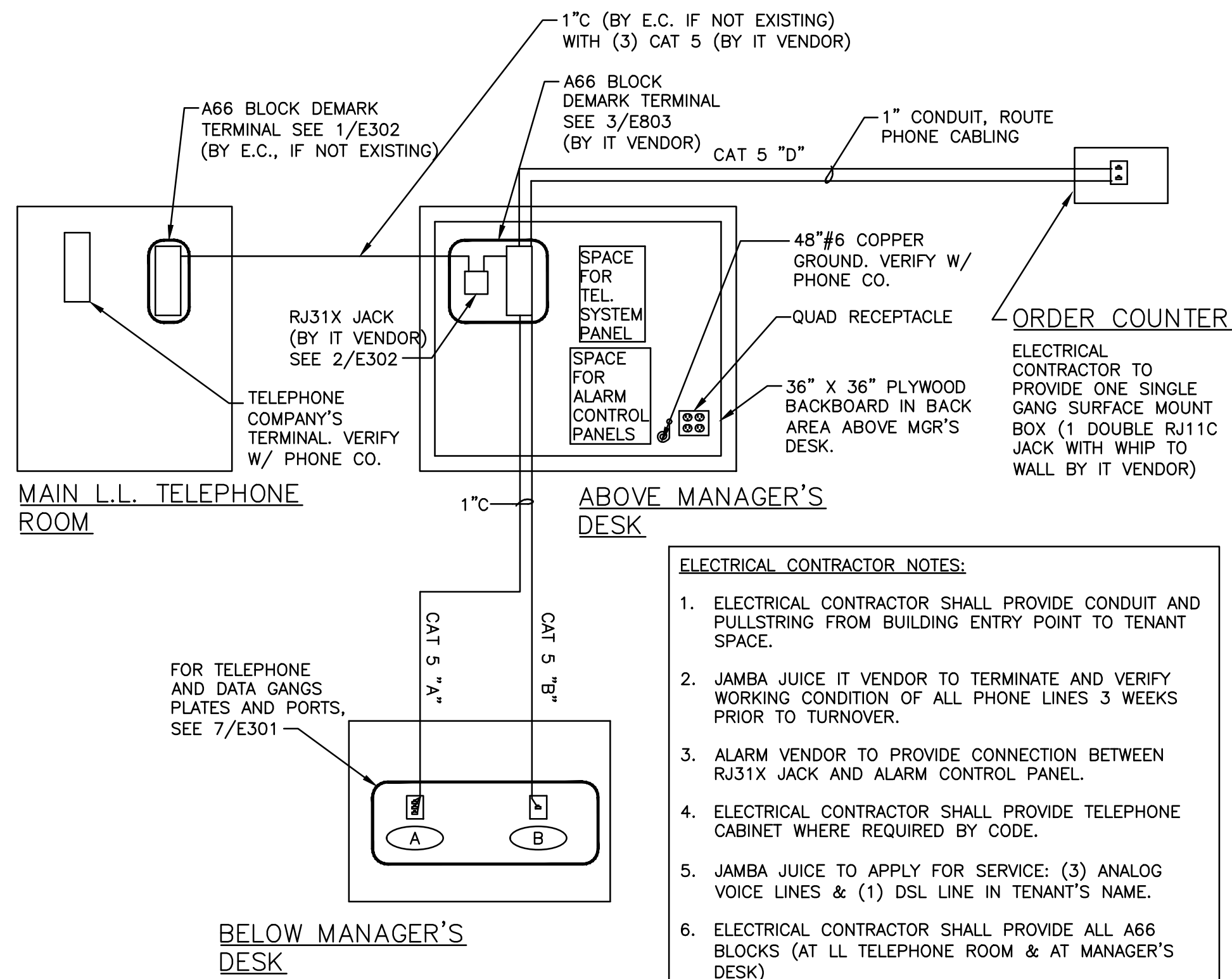
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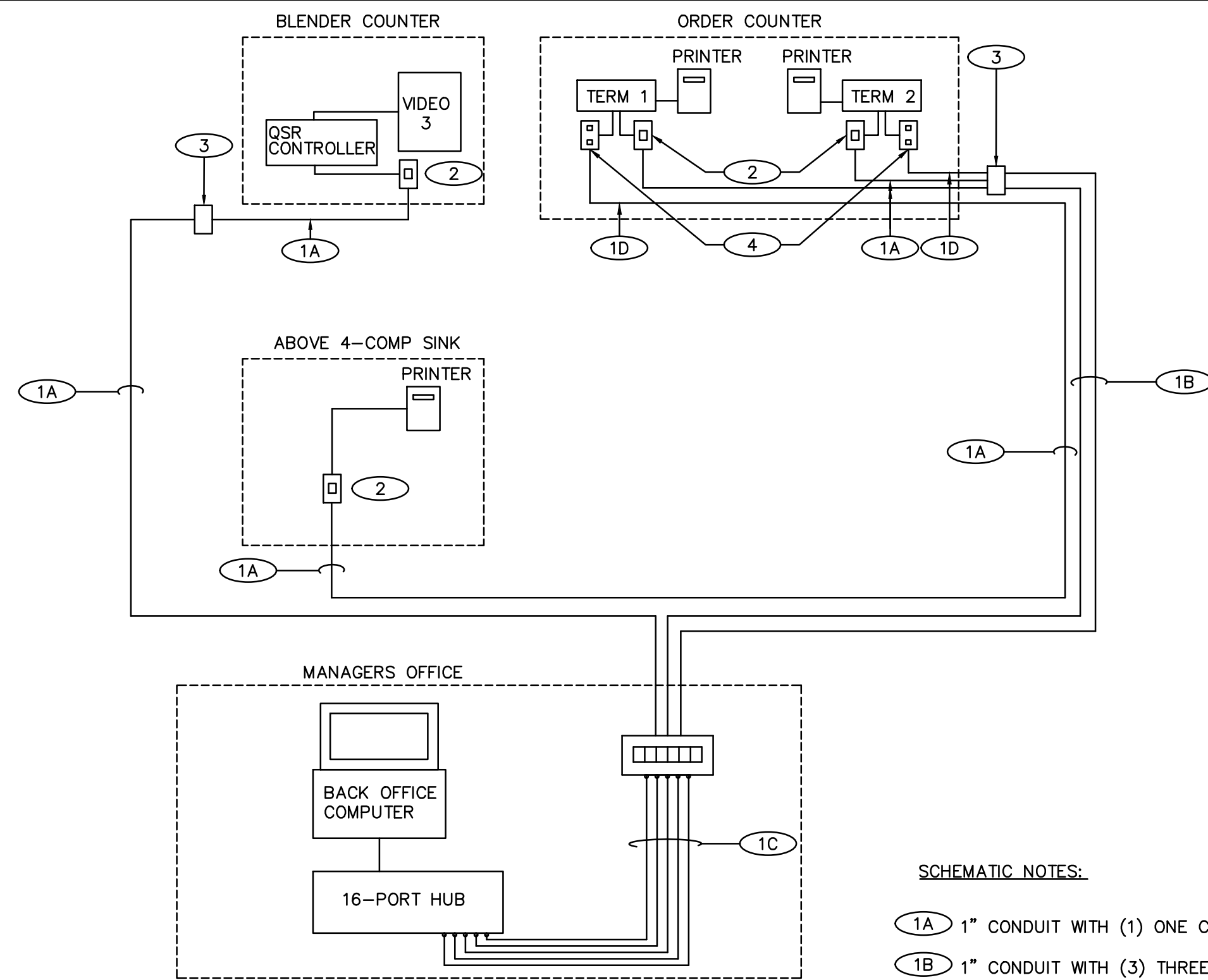
1 Buzzer Wiring Diagram
NOT TO SCALE



2 Isolated Grounding Detail
NOT TO SCALE



5 Telephone Wiring Schematic
NOT TO SCALE



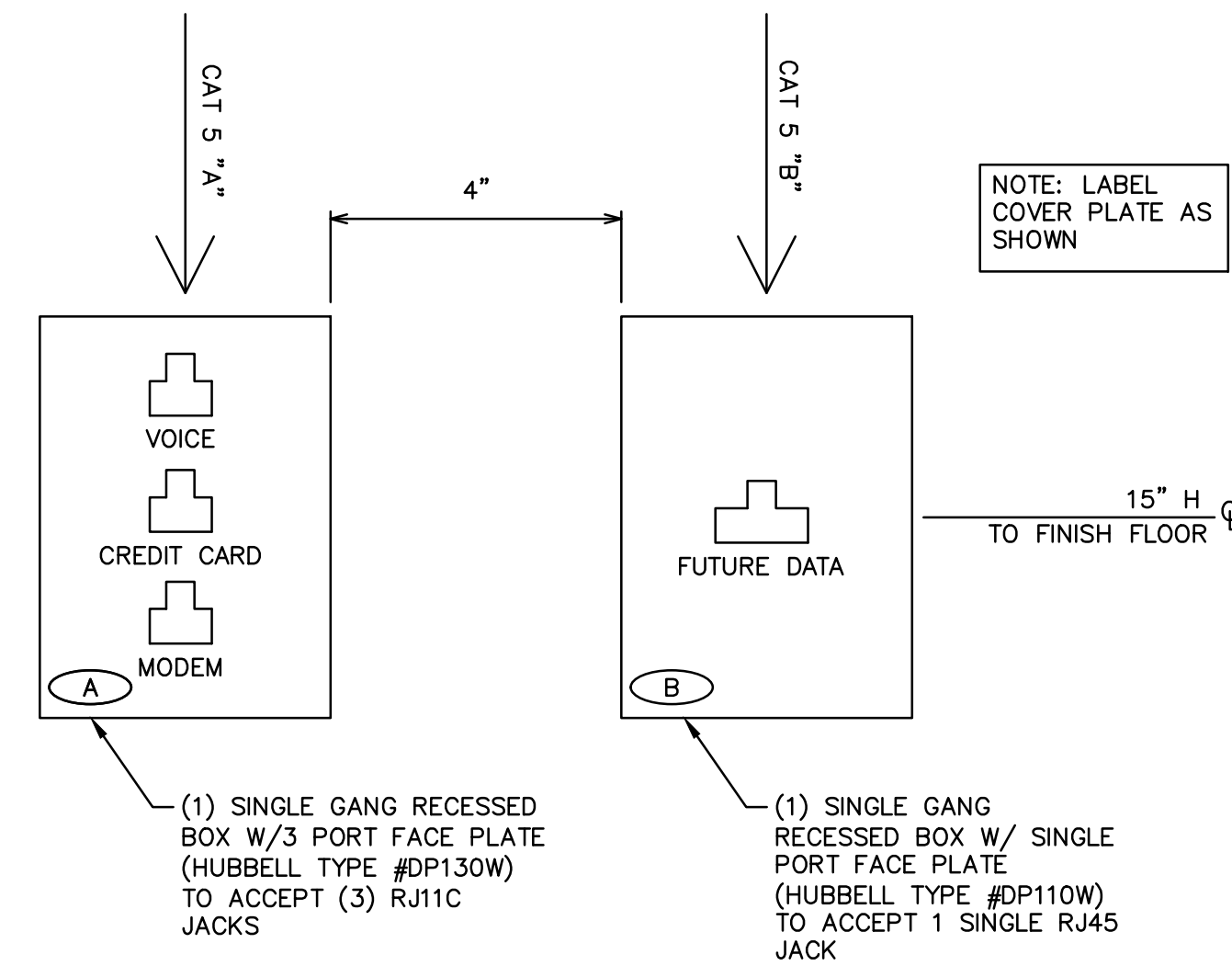
□ = RJ45C WALL JUNCTION BOX

GENERAL NOTES:

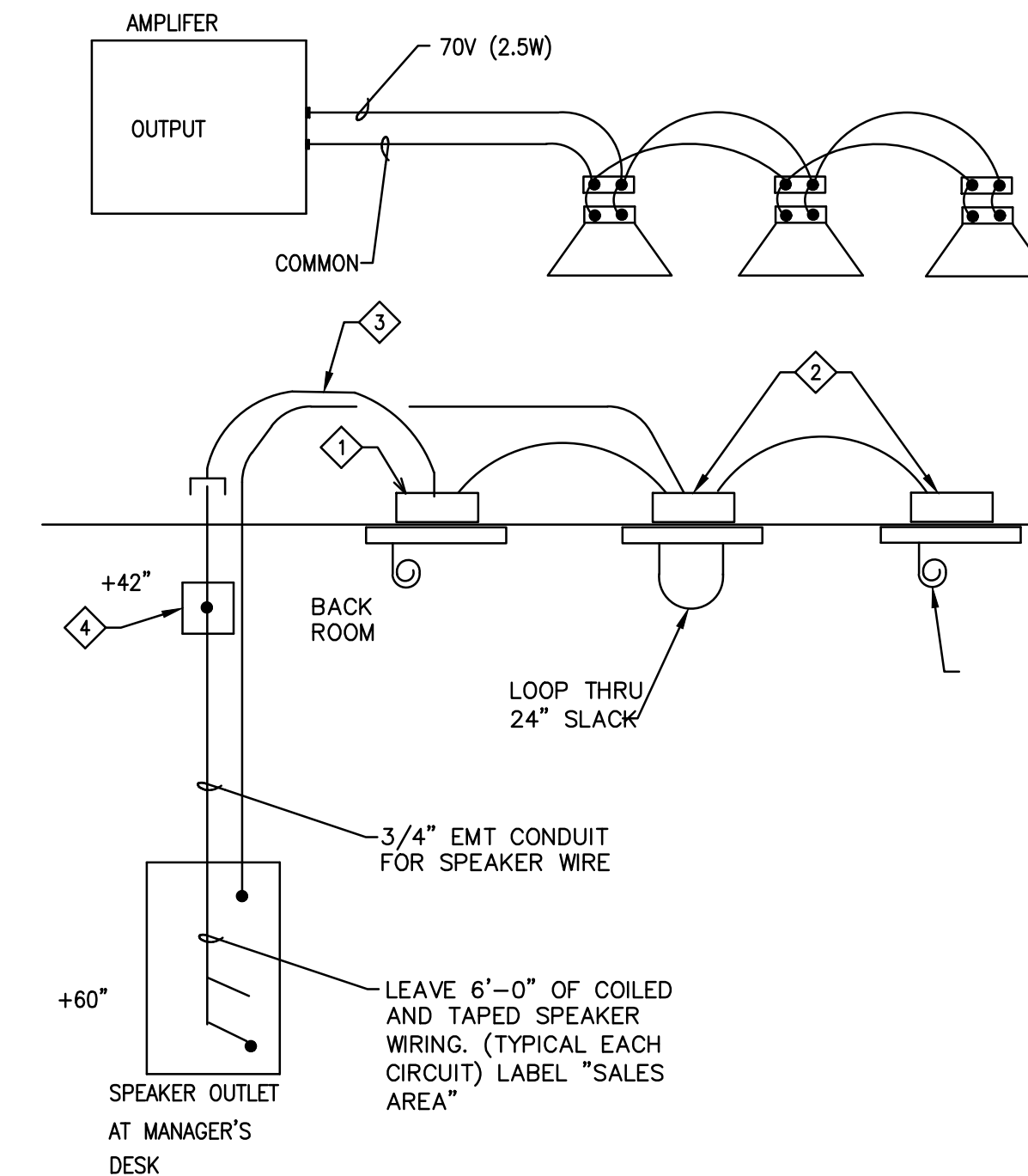
1. EVERY QSR CONTROLLER WILL HAVE A BUMP BAR.
2. ALL CABLES SHALL BE CAT 5, FOUR PAIR, SOLID TWISTED.
3. ALL WALL JACKS SHALL BE RJ45.
4. ALL WIRING TERMINATION SCHEMES SHALL BE T568B TYPE.
5. ALL 120 VAC OUTLETS ON SAME CIRCUITS WITH DEDICATED HOME RUNS TO IG. CIRCUIT.

3 P.O.S. Schematic
NOT TO SCALE

JAMBA JUICE DETAILS



4 Telephone & Data Below Managers Desk
NOT TO SCALE



NOTES:

1. CT830-T870 COAX SPEAKER (EXISTING AND MINOR REMODEL STORES ONLY). GRILLE, ENCLOSURE (XCP84) AND SUPPORT FURNISHED AND INSTALLED BY "DMX". (KITCHEN)
2. POXN S20-AT-15 SPEAKER, ENCLOSURE (PUSH APB - FOR "PLENUM" LOCATIONS ONLY) FURNISHED AND INSTALLED BY "DMX". (PREP & FRONT AREA)
3. SPEAKER WIRE FURNISHED AND INSTALLED BY "DMX". IF REQUIRED BY LOCAL CODE, RUN CONDUIT IN CEILING TO MANAGER'S OFFICE TO FEED EACH SPEAKER LOCATION.
4. SINGLE GANG RECESSED RECEPTACLE BOX FOR VOLUME CONTROL. (VOLUME CONTROL TO OPERATE BACK SPEAKER ONLY)

6 DMX SOUND SYSTEM (PROVIDED & INSTALLED BY VENDOR)
NOT TO SCALE



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Issue Description:
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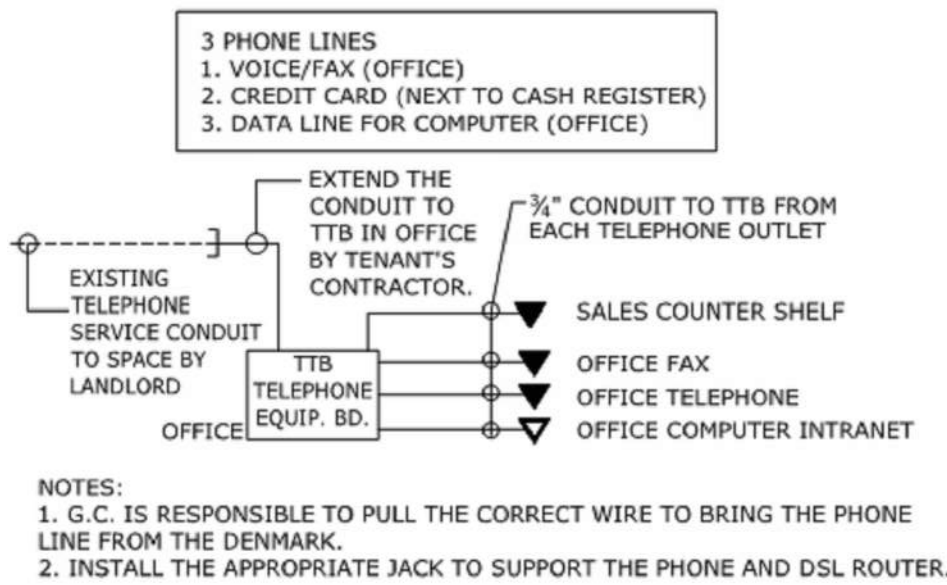
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Project #: 19027
Issue Date: 08/21/2019

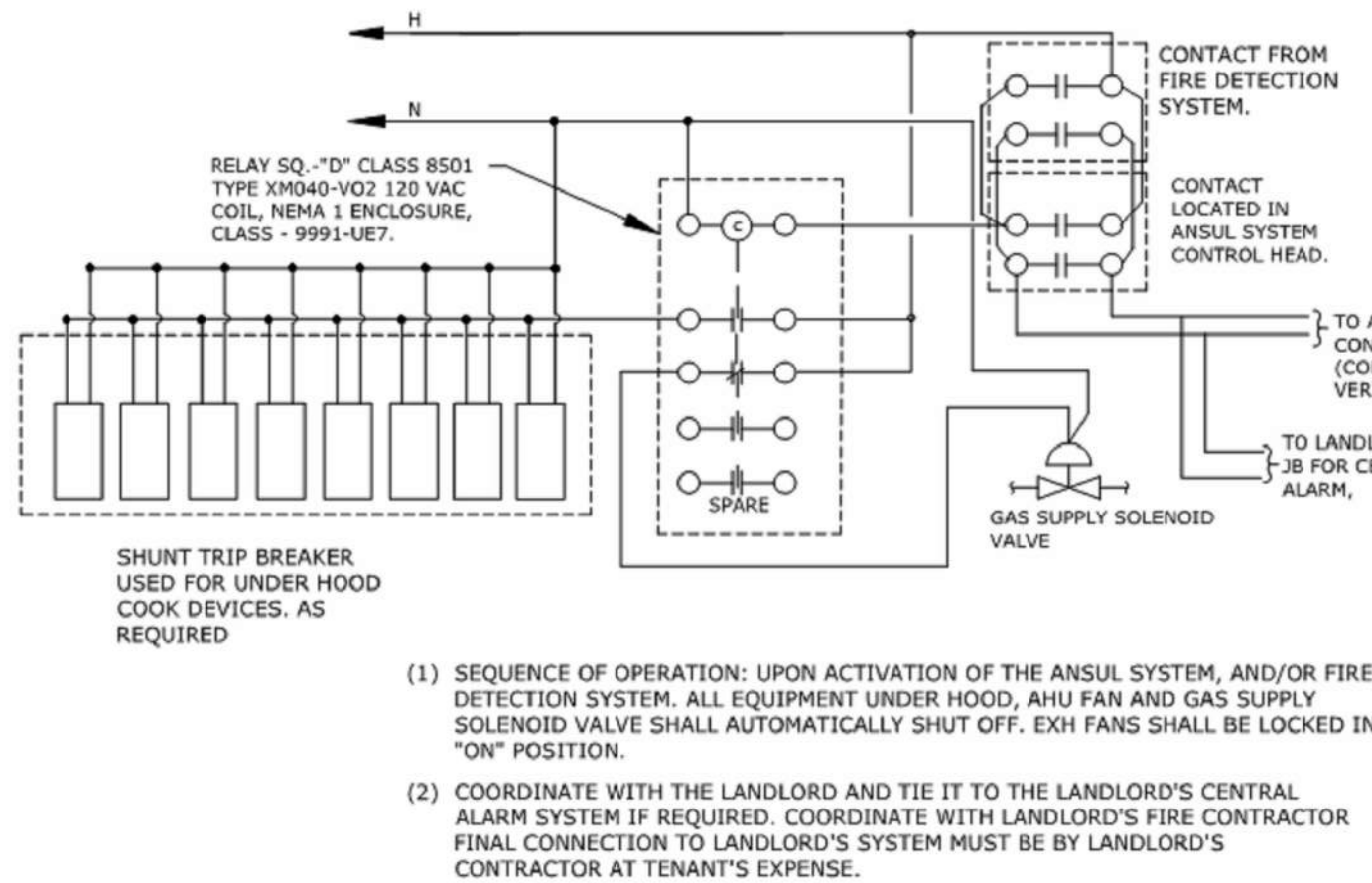
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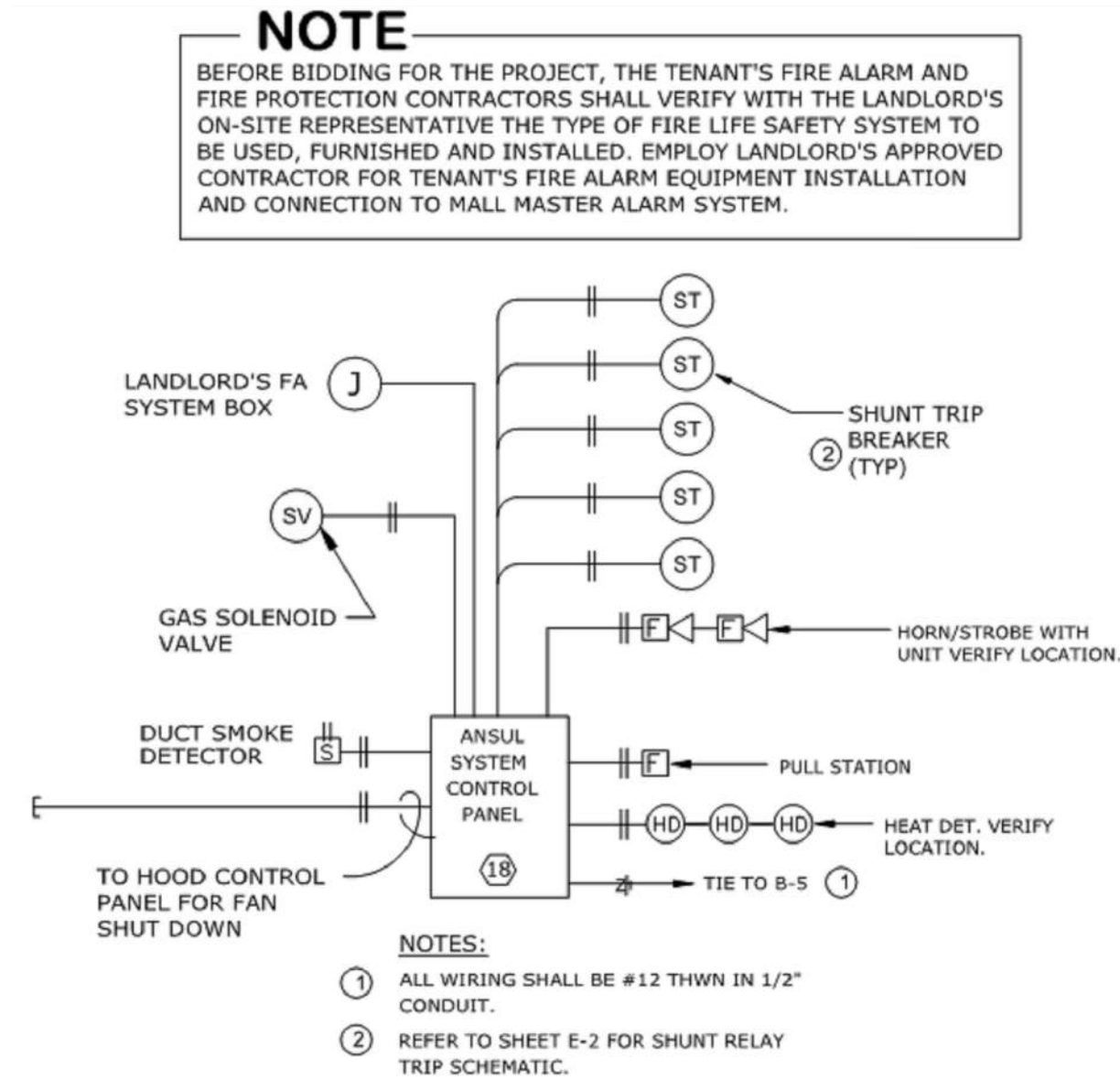
CHARLEY'S DETAILS



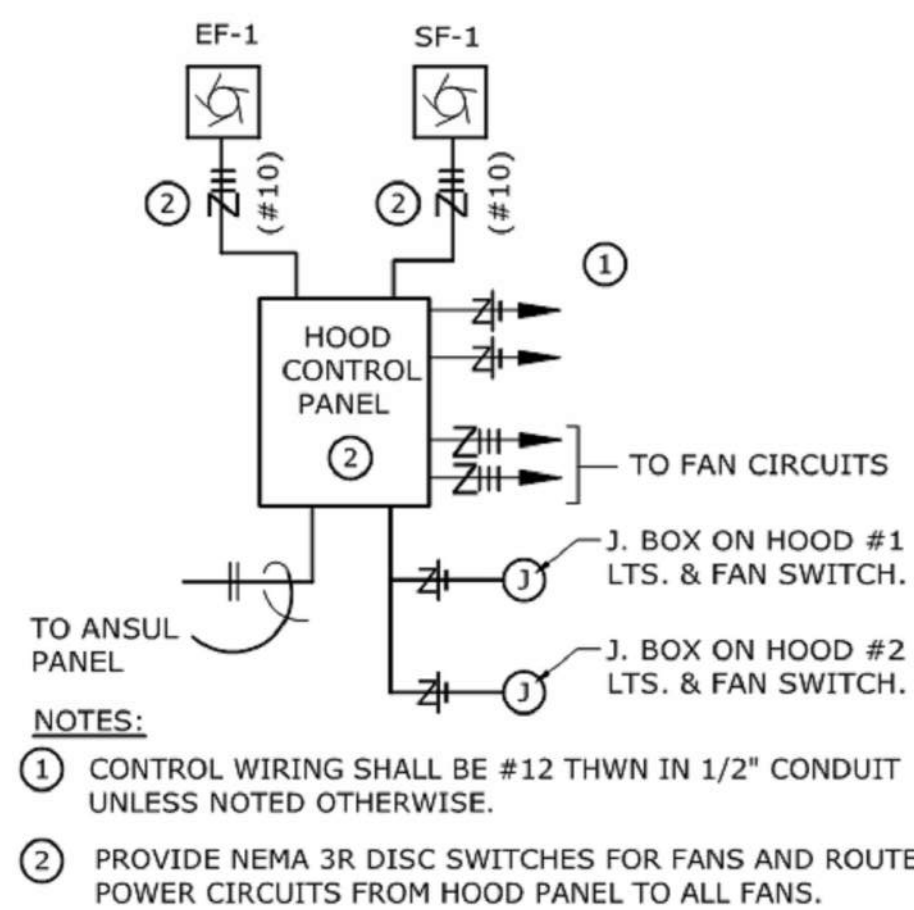
1 TELEPHONE DIAGRAM
NOT TO SCALE



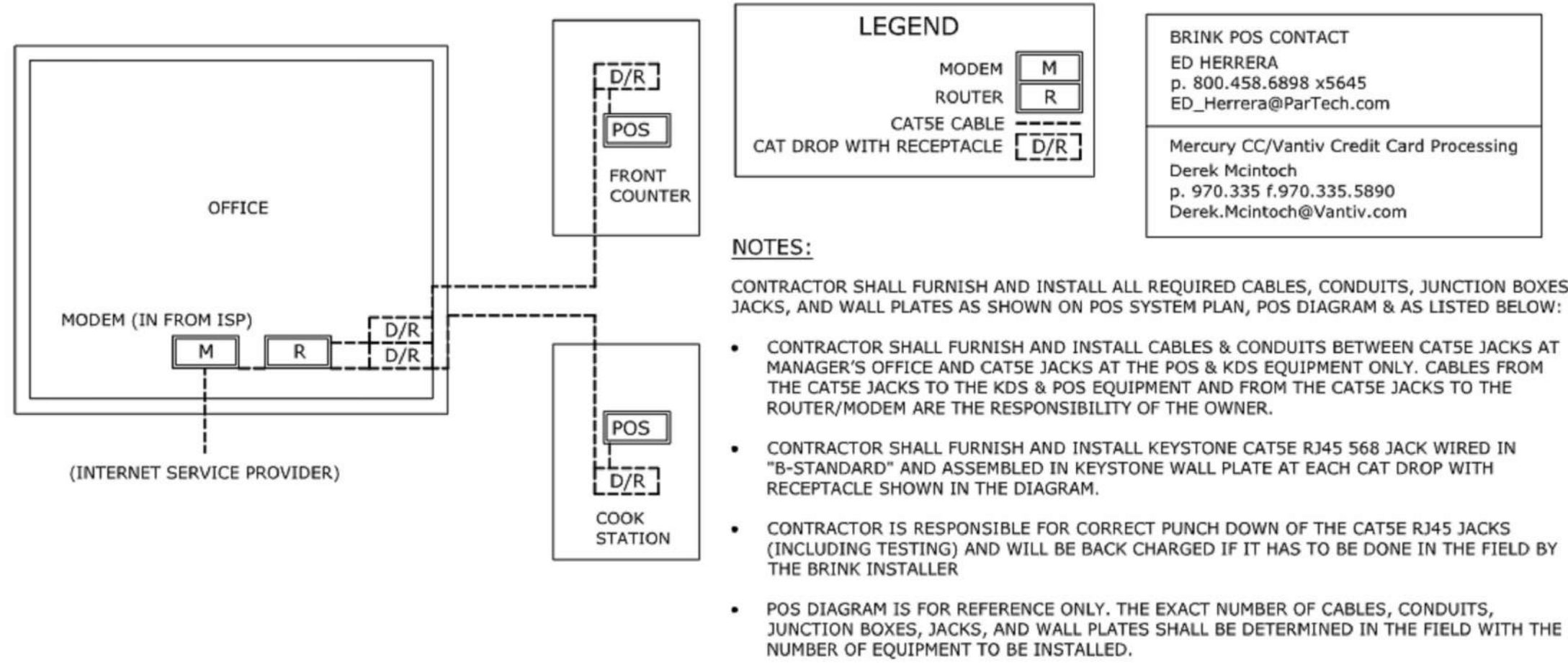
2 TYPICAL SHUNT TRIP RELAY CONTROL
NOT TO SCALE



3 ANSUL SYSTEM WIRING DIAGRAM
NOT TO SCALE



4 HOOD SYSTEM WIRING DIAGRAM
NOT TO SCALE



5 POS DIAGRAM
NOT TO SCALE

GENERAL FIRE ALARM NOTES:

1. FIRE ALARM DEVICE LOCATIONS ARE DIAGRAMMATIC ONLY. THE FIRE ALARM SYSTEM VENDOR SHALL BE RESPONSIBLE TO VERIFY ALL NEW AND EXISTING DEVICE SPECIFICATIONS AND CHARACTERISTICS, BASED ON THEIR SYSTEM DEVICE SPECIFICATIONS. PROVIDE FINAL LAYOUT DRAWINGS OF DEVICE LOCATIONS TO MEET ALL STATE AND LOCAL FIRE ALARM CODE REQUIREMENTS.
2. THE CODES OF RECORD FOR THIS PROJECT ARE THE 2015 MICHIGAN BUILDING CODE (MBC), NFPA 1 (2015 EDITION) AND THEIR RESPECTIVE REFERENCES INCLUDING NFPA 72 (2013 EDITION), AND NFPA 70 (2014 EDITION). THE FIRE ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE (2013 EDITION).
3. THIS IS AN EXISTING BUILDING CONSISTING OF THE FOLLOWING USE GROUPS: B, BUSINESS AND F-1, FACTORY OCCUPANCIES WITH S-1 STORAGE AS AN ACCESSORY.
4. THE BUILDING IS SPRINKLERED AND IS REQUIRED TO ELECTRONICALLY MONITOR THE SPRINKLER SYSTEM IN ACCORDANCE WITH MBC 901.6 AND 903.4.
5. THE INTENTION OF THE FIRE ALARM SYSTEM DESIGN IN THESE DRAWINGS PROVIDES THE FOLLOWING CAPABILITIES:

5.1. MONITORING OF THE AUTOMATIC SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES.

5.2. PROVIDE A PULL STATION AT EXITS.




















5.3. PROVIDE NOTIFICATION THROUGHOUT THE FIRST FLOOR FOR ACTIVATION OF BUILDING FIRE ALARM.

5.4. PROVIDE DUCT DETECTOR FOR RTUs.
6. THE FIRE ALARM SYSTEM DESIGN PRESENTED IN THESE DRAWINGS HAS BEEN PREPARED IN ACCORDANCE WITH MBC 907.1.
7. CONTRACTOR SHALL SUBMIT FIRE ALARM SHOP DRAWINGS (INCLUDING ALL TECHNICAL DATA SHEETS) THAT COMPLY WITH THE FIRE MARSHAL'S OFFICE SYSTEM INSTALLATION REQUIREMENTS, TO THE FIRE MARSHAL FOR PERMIT APPROVAL PRIOR TO START OF WORK.
8. FIRE ALARM SYSTEM VENDOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS RELATING TO THE SYSTEM INSTALLATION. THIS SHALL INCLUDE PAYING ALL FEES AND SCHEDULING INSPECTIONS.
9. WORK SHALL BE SCHEDULED IN COORDINATION WITH THE OWNER. IF EXISTING EQUIPMENT OR SERVICES ARE REQUIRED TO BE SHUTDOWN TO PERFORM THIS SCOPE OF SERVICES, THE FPC SHALL NOTIFY THE OWNER DIRECTLY 7 DAYS PRIOR TO THE START OF WORK.
10. COORDINATE INSTALLATION AND EXACT LOCATION WITH OTHER CEILING MOUNTED EQUIPMENT AND DEVICES.
11. ALL CEILING MOUNTED DEVICES SHALL BE INSTALLED IN THE CENTER OF THE CEILING TILE.
12. DETECTORS SHALL NOT BE MOUNTED IN DIRECT AIR STREAM OF AIR SUPPLY OUTLETS (MINIMUM DISTANCE OF 4'-0").
13. ALL HORN/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 80" A.F.F. OR 6' BELOW DROPPED CEILING, WHICHEVER IS LESS. ALL DEVICES AT OR BELOW 80" A.F.F. SHALL NOT EXTEND MORE THAN 4" FROM THE VERTICAL MOUNTING SURFACE INCLUDING BOX, RACEWAY, AND / MOUNTING ACCESSORY.
14. ALL STROBES SHALL BE SYNCHRONIZED IN THE FIELD OF VIEW.
15. AUDIBLE ALARMS SHALL SOUND A MINIMUM OF 15 dBA ABOVE AMBIENT SOUND LEVEL THROUGHOUT. CONTRACTOR SHALL ADJUST POWER TAPS AND/OR INSTALL ADDITIONAL DEVICES AS NECESSARY TO MEET THIS REQUIREMENT. SOUND PRESSURE MUST NOT EXCEED 115 dBA.
16. MANUAL PULL STATIONS SHALL BE INSTALLED ADJACENT TO EVERY EXIT. ADDITIONAL PULL STATIONS SHALL BE INSTALLED SO THAT TRAVEL DISTANCE TO THE NEAREST STATION DOES NOT EXCEED 200 FEET. PULL STATIONS SHALL BE INSTALLED AT 48" MAX ABOVE FINISHED FLOOR TO THE ACTIVATING HANDLE.
17. A SMOKE DETECTOR SHALL BE INSTALLED ABOVE EACH FIRE ALARM CONTROL PANEL, AND REMOTE POWER SUPPLY PANELS.
18. DUCT TYPE SMOKE DETECTORS INSTALLED IN CONCEALED LOCATIONS MORE THAN 10' - 0" A.F.F., FIRE ALARM CONTROL PANELS, AND FIRE ALARM ANNUNCIATOR PANELS SHALL HAVE KEYED REMOTE STATUS LED STATIONS AS PER NFPA 72. COORDINATE FINAL LOCATIONS IN FIELD WITH THE HVAC CONTRACTOR, EQUIPMENT AND THE ARCHITECT/ENGINEER. DUCT DETECTORS FOR HVAC EQUIPMENT SHALL BE PROVIDED ON SUPPLY AND RETURN.
19. COORDINATE THE INSTALLATION OF FLOW AND TAMPER SWITCH ASSEMBLIES WITH THE FIRE PROTECTION CONTRACTOR. PROVIDE AND INSTALL A FLOW AND TAMPER SWITCH FOR EACH FIRE PROTECTION SYSTEM RISER.
20. CONTRACTOR TO PROVIDE CONTROL RELAY(S) AS NECESSARY FOR THE PROPER OPERATION DURING A FIRE EVACUATION FOR ALL DOOR HOLDERS OR FIRE ACCORDION DOORS. CONTRACTOR TO PROVIDE CONTROL RELAY(S) AS NECESSARY FOR HVAC FAN SHUTDOWN BY THE BUILDING AUTOMATION SYSTEM (BAS) UPON DUCT DETECTION OF THE RTU.
21. ALL DEVICES ARE TO BE LABELED ON DETECTOR SIDES, MANUAL STATION TOPS, AND DUCT DETECTOR FRONTS. LABELING IS TO BE DONE BY A P-TOUCH UNIT OR EQUIVALENT.
22. PROVIDE ALL NEW EQUIPMENT AND DEVICES TO INTERFACE AND MAINTAIN EXISTING FIRE ALARM SYSTEM. THE CONTRACTOR AND FIRE ALARM SYSTEM VENDOR SHALL BE RESPONSIBLE TO PROVIDE ALL SERVICES REQUIRED TO PROVIDE A "COMPLETE AND OPERATIONAL SYSTEM" PER CODE REQUIREMENTS. THIS INCLUDES BUT IS NOT LIMITED TO: PER MBC 907.1 THE FINAL FIRE ALARM INSTALLATION DOCUMENTS SHALL INCLUDE REQUIRED ADDITIONAL EQUIPMENT PROPOSED BY THE AUTHORITY HAVING JURISDICTION OR REVIEWER. CONTRACTOR SHALL INSTALL ALL ADDITIONAL REQUIRED DEVICES AND WIRING AT NO ADDITIONAL COST TO OWNER.
23. NUMBERS ADJACENT TO DEVICE SYMBOL DENOTE DEVICE CIRCUIT / ADDRESS DEVICE. EX: 001-02 WOULD BE THE SECOND DEVICE ON

- ADDRESSABLE LOOP 1.
24. THE CONTRACTOR SHALL INSTALL ALL FIRE ALARM DEVICES INCLUDING INITIATING AND INDICATING DEVICES, POWER SUPPLIES, TRANSPONDERS, AND ALL ASSOCIATED EQUIPMENT. NO DIVERSION PERMITTED UNLESS DISCUSSED WITH THE ENGINEER PRIOR TO ROUGH-IN. SYSTEM SHALL COMPLY WITH THE APPLICABLE MBC AND NFPA REQUIREMENTS. EXTERIOR DEVICES SHALL BE EXTERIOR RATED.
25. FINAL LOCATIONS AND QUANTITY OF REMOTE POWER SUPPLY PANELS SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM SUPPLIER DURING THE SHOP DRAWING STAGE AND PRIOR TO INSTALLATION. THE SHOP DRAWINGS SHALL INDICATE FINAL QUANTITY REQUIRED AND PROPOSED LOCATIONS FOR REVIEW AND APPROVAL BY THE ARCHITECT / ENGINEER.
26. THE HORN-STROBES SHALL BE SET TO THE HIGHEST VOLUME AND SOUND THE THREE PULSE TEMPORAL CODE SIGNAL IN ACCORDANCE WITH NFPA 72.
27. PROVIDE AND INSTALL ALL REQUIRED CONDUIT, CABLE, HARDWARE, DEVICES, PROGRAMMING, ETC. NECESSARY TO MAKE THE SYSTEM OPERATIONAL.
28. ALL FIRE ALARM SYSTEM WIRING SHALL COMPLY WITH NFPA 70 AND NFPA 72. PROVIDE AND INSTALL ALL NECESSARY WIRING AND SUPPORTING COMPONENTS INCLUDING BUT NOT LIMITED TO END-OF-LINE RESISTORS, ADDRESSABLE RELAYS, MODULES, DRIVERS, ETC.
29. ALL CIRCUITS SHALL BE CLASS B AND SHALL BE WIRED FOR PROPER SUPERVISION IN ACCORDANCE WITH NFPA 72 AND THE MANUFACTURERS REQUIREMENTS.
30. ALL WIRING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NFPA 70) USING FPL, FPLR OR FPLP TYPE CABLE OF THE AWG SIZE SPECIFIED OR LARGER.
31. ALL JUNCTION BOXES, COVER PLATES, AND FITTINGS FOR FIRE ALARM SYSTEM WIRING SHALL BE RED, EITHER COATED BY MANUFACTURER OR FIELD PAINTED RED BY THE CONTRACTOR. THE INSIDE COVER OF ALL COVER PLATES SHALL BE PERMANENTLY MARKED TO INDICATE THE PANEL AND CIRCUIT NUMBER. THE OUTSIDE OF THE COVER PLATES FOR ALL JUNCTION BOXES SHALL BE PERMANENTLY MARKED TO INDICATE "FIRE ALARM". IDENTIFICATION SHALL BE ON THE INSIDE OF COVER PLATES FOR ALL JUNCTION BOXES IF THEY ARE LOCATED IN FINISHED AREAS.
32. WHERE GROUNDING AND BONDING OF CONDUIT AND BOXES IS REQUIRED, GROUNDING AND BONDING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE NFPA 70 ARTICLE 250.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL INSPECTIONS AND MUST NOTIFY THE OWNER'S DESIGNATED AGENT 48 HOURS PRIOR TO ANY INSPECTIONS OR TESTS.
34. INSTALLATION AND PROGRAMMING SHALL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLING CONTRACTOR HAS TESTED AND EVALUATED EVERY ALARM INITIATING DEVICE FOR PROPER RESPONSE AND INDICATION AND ALL NOTIFICATION APPLIANCES FOR EFFECTIVENESS IN ACCORDANCE WITH NFPA 72 7.5.2 REQUIREMENTS. THE ENGINEER OF RECORD SHALL BE GIVEN ADVANCE NOTICE OF THESE TESTS TO PERMIT THEM TO BE WITNESSED IF DESIRED. THE COMPLETED SYSTEM MUST OPERATE FOR AT LEAST TWO DAYS PRIOR TO THE FINAL ACCEPTANCE TEST WITH THE FIRE MARSHAL.
35. THE CONTRACTOR SHALL FURNISH TO THE OWNER OR OWNER'S AGENT DOCUMENTATION OF PRE-TESTING EACH DEVICE AND TWO CORRECTED SETS OF AS-BUILT DRAWINGS, INCLUDING DETAILED MAINTENANCE REQUIREMENTS AND A RECORD COPY OF THE SITE-SPECIFIC SOFTWARE, IN ACCORDANCE WITH MBC 909.18 AND NFPA 72 7.5 AT THE TIME OF THE FINAL ACCEPTANCE AND REACCEPTANCE TEST.
36. A COMPLETE SET OF OPERATING AND INSTRUCTION MANUALS SHALL BE DELIVERED TO THE OWNER'S AGENT PRIOR TO COMPLETION OF FINAL ACCEPTANCE TEST.
37. PRIOR TO PERFORMING ACCEPTANCE TESTING, COPIES OF THE ACCEPTANCE TESTING PROCEDURES SHALL BE PROVIDED TO THE OWNER OR OWNER'S AGENT, THE ENGINEER OF RECORD, AND THE FIRE MARSHAL. THE TESTING PROCEDURES SHALL INCLUDE A CHECKLIST LISTING EACH COMPONENT, INITIATING DEVICE, AND NOTIFICATION APPLIANCE INDIVIDUALLY WITH ZONE AND POINT IDENTIFICATIONS FOR FINAL ACCEPTANCE TESTING.
38. WHEN THE ACCEPTANCE TESTS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE CONTRACTOR'S JOB PROJECT MANAGER, ENGINEER OF RECORD, FIRE MARSHAL, AND THE OWNER OR OWNER'S AGENT, A COMPLETED RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72 SECTION 14.6.1 AND MBC 907.2, COSIGNED BY EACH ATTESTING TO THE SATISFACTORY COMPLETION OF SAID TESTING SHALL BE FORWARDED TO THE OWNER OR OWNER'S AGENT, THE ENGINEER OF RECORD, AND THE FIRE MARSHAL.

EXISTING SYSTEM:

1. PRIOR TO BID SUBMITTAL, THE CONTRACTOR SHALL VISIT THE SITE WITH BUILDING MANAGEMENT AND THE BUILDING APPROVED FIRE ALARM SYSTEM VENDOR TO VERIFY THE EXISTING SYSTEM, OPERATIONS, COMPONENTS, PANEL LOCATIONS, CABLING, AND ROUTING REQUIREMENTS, ETC. THE BIDDER SHALL INCLUDE ALL NECESSARY CODE COMPLIANT FIRE ALARM EQUIPMENT TO INTERFACE WITH THE EXISTING SYSTEM.
2. CONTRACTOR IS RESPONSIBLE TO SUBMIT ALL REQUIRED DOCUMENTATION FOR MODIFICATION OF FIRE ALARM SYSTEM INCLUDING BUT NOT LIMITED TO WIRING DIAGRAMS, VOLTAGE DROP AND BATTERY CALCULATIONS AND DEVICE ADDRESS LIST.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND THE FIRE ALARM SYSTEM VENDOR FOR ALL COMMUNICATIONS AND / OR SYSTEM MODIFICATIONS AS REQUIRED TO ACCOMMODATE NEW FIRE ALARM DEVICE(S) AND CODE COMPLIANCE OPERATION.

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING FIRE ALARM CONTROL PANEL.
	NOTIFICATION ALARM CIRCUIT EXTENDER PANEL.
	MANUAL PULL STATION
	CEILING MOUNTED SMOKE DETECTOR.
	DUCT DETECTOR.
	CARBON MONOXIDE DETECTOR.
	HEAT DETECTOR.
	OTHER TYPES OF DETECTORS: "X" INDICATES: <div>E ELEVATOR RECALLBR BEAM RECIEVER AS AIR SAMPLINGBT BEAM TRANSMITTER P PHOTOELECTRICSB SOUNDER BASE</div>
	FIRE ALARM STROBE
	FIRE ALARM HORN.
	FIRE ALARM HORN STROBE.
	FIRE ALARM (ANNUNCIATOR) CEILING MOUNTED.
	DOOR HOLDER
	ADDRESSIBLE INPUT MODULE. ADDRESSIBLE OUTPUT MODULE. ISOLATION MODULE.
	REMOTE INDICATOR, WALL/CEILING MOUNTED.
	REMOTE ALARM INDICATING AND TEST SWITCH.
	WATER FLOW SWITCH.
	TAMPER SWITCH.
	END OF LINE RESISTOR.

ABBREVIATIONS			
GENERAL		CONDUIT TYPES	
AC	ABOVE COUNTER	AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR	C	CONDUIT
AFG	ABOVE FINISHED GRADE	B	BOILER
CB	CIRCUIT BREAKER	BAS	BUILDING AUTOMATION SYSTEM
CKT	CIRCUIT	CH	CHILLER
CR	CRITICAL BRANCH	EF	EXHAUST FAN
CT	CURRENT TRANSFORMER	EUH	ELECTRIC UNIT HEATER
CU	COPPER	EWC	ELECTRIC WATER COOLER
EG	EQUIPMENT GROUND	RTU	ROOFTOP UNIT
ELEV	ELEVATOR	SAHU	SPLIT SYSTEM AIR HANDLING UNIT
FPC	FIRE PROTECTION CONTRACTOR	SCOPE OF WORK / TRADES	
GAP	GENERATOR ANNUNCIATOR PANEL	(D&R)	DISCONNECT AND REMOVE
LS	LIFE SAFETY	(E)	EXISTING (TO REMAIN)
MCB	MAIN CIRCUIT BREAKER	(N.I.C.)	NOT IN CONTRACT
OS	OCCUPANCY SENSOR	(R)	RELOCATED
UC	UNDER COUNTER	(R&R)	REMOVE AND RELOCATE
UG	UNDERGROUND	(REP)	REPLACE
WIU	WHILE IN USE	EC	ELECTRICAL CONTRACTOR
WP	WEATHERPROOF	GC	GENERAL CONTRACTOR
EWH	ELECTRIC WATER HEATER	MC	MECHANICAL CONTRACTOR
MAU	MAKE-UP AIR UNIT	TC	TECHNOLOGY CONTRACTOR



DS ARCHITECTURE

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REGISTERED PROFESSIONAL ENGINEER
SEAN M. JOHNSON
No. 18873
EXP. 12/31/19
ELECTRICAL
STATE OF CALIFORNIA

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TravelCenters of America LLC
Tejon TravelCenter of America

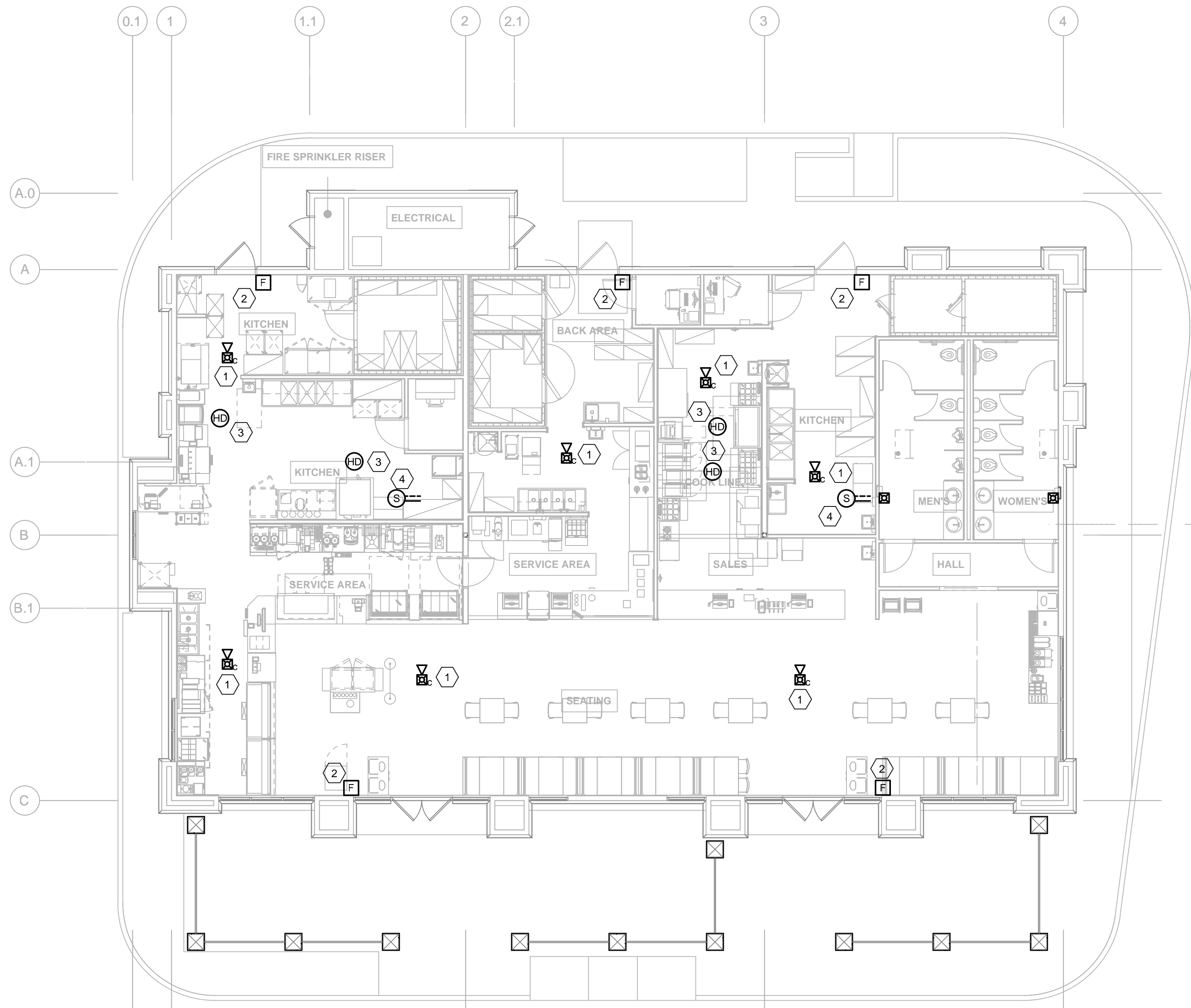
5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description: ISSUED FOR PERMIT	
Revision Schedule	
#	DATE DESCRIPTION

Project #:	19027
Issue Date:	08/21/2019

E3.00

Fire Alarm Symbols
and Notations



1 Overall Fire Alarm Plan
1/8" = 1'-0"

OVERALL GENERAL NOTES

- ALL FIRE DEVICES SHALL BE CONNECTED BACK TO LANDLORD FIRE ALARM CONTROL PANEL IN LANDLORD ELECTRICAL ROOM. E.C. SHALL COORDINATE ALL DEVICES WITH LANDLORD PRIOR TO ROUGH-IN.
- ALL DEVICES ARE LOCATED FOR DIAGRAMMATICAL PURPOSES. ALL FINAL DEVICES LOCATIONS AND QUANTITIES SHALL BE DETERMINED BY AUTHORITY HAVING JURISDICTION. E.C. SHALL PROVIDE MORE DEVICES AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE WITH LANDLORD AND DETERMINE WHAT KIND OF LIFE SAFETY AND FIRE ALARM DEVICES ARE REQUIRED BEFORE BIDDING FOR THE PROJECT. USE EXISTING OR FURNISH AND INSTALL NEW FA DEVICES AS REQUIRED, IN COMPLIANCE WITH THE POWER PLAN AND ANSUL WIRING DIAGRAM, LANDLORD'S CRITERIA, NFPA AND LATEST APPLICABLE CODE REQUIREMENTS. TIE TENANT'S FA SYSTEM TO THE BASE BUILDING FA SYSTEM, AS REQUIRED.

SHEET KEYNOTES

- PROVIDE NEW HORN-STROBE. PROVIDE NEW CONDUIT AND WIRE TO NEAREST EXISTING DEVICE. MATCH EXISTING WIRE SIZE AND TYPE. FIRE ALARM CONTRACTOR TO CONNECT NEW DEVICE TO EXISTING FIRE ALARM SYSTEM AND REPROGRAM AS REQUIRED.
- PROVIDE NEW MANUAL PULL STATION. PROVIDE NEW CONDUIT AND WIRE TO NEAREST EXISTING DEVICE. MATCH EXISTING WIRE SIZE AND TYPE. FIRE ALARM CONTRACTOR TO CONNECT NEW DEVICE TO EXISTING FIRE ALARM SYSTEM AND REPROGRAM AS REQUIRED.
- PROVIDE NEW HEAT DETECTOR. PROVIDE NEW CONDUIT AND WIRE TO NEAREST EXISTING DEVICE. MATCH EXISTING WIRE SIZE AND TYPE. FIRE ALARM CONTRACTOR TO CONNECT NEW DEVICE TO EXISTING FIRE ALARM SYSTEM AND REPROGRAM AS REQUIRED.
- NEW DUCT DETECTOR TO BE PROVIDED BY MECHANICAL CONTRACTOR, AND WIRED BY ELECTRICAL CONTRACTOR. PROVIDE NEW CONDUIT AND WIRE TO NEAREST EXISTING DEVICE. MATCH EXISTING WIRE SIZE AND TYPE. FIRE ALARM CONTRACTOR TO CONNECT NEW DEVICE TO EXISTING FIRE ALARM SYSTEM AND REPROGRAM AS REQUIRED. E.C. SHALL VERIFY FINAL MOUNTING LOCATION WITH RTU PLACEMENT PRIOR TO ROUGH-IN.
-



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TravelCenters of America LLC Tejon TravelCenter of America

5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description:
ISSUED FOR PERMIT

#	DATE	DESCRIPTION
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Project #: 19027
Issue Date: 08/21/2019

E3.01

Overall Fire
Alarm Plan

EQUIPMENT						PLUMBING						ELECTRICAL										
ITEM #	QTY.	DESCRIPTION	MANUFACTURER	MODEL #	N.S.F. E.T.L.	U.L. E.T.L.	WATER			WASTE		REMARKS	LOAD					SUPPLIED W/ CORD & PLUG	RECEPT. SPEC	A.F.F.	REMARKS	GENERAL REMARKS
							H.W.	C.W.	F.W.	DIR.	IND.		VOLTS	PHASE	AMPS	CIRCUIT SIZE	#WIRES W/ GROUND					
10D	2	14" x 24" WALL MOUNT SHELF FOR BR SINK STATION	METRO	INM1424BR																		
15B	3	HOT FUDGE WARMER WINBERTS, LIDS & PUMP	SERVER PRODUCTS	82155																		
15E	1	SCALE FOR WEIGHING HAND PACKED ICE CREAM	CHAUSS	RE15US																		
20M	2	BLENDING STATION-ADVANCE	VITA-MIX	36011																		
20C	4	COUNTERTOP ADJUSTABLE CUP DISPENSER	DISPENSE-RITE	CTLD-22																		
30-1	1	27"W x 30-1/2"D SUNDAE STATION W/CASTERS	TRUE	SKF2A-C4																		
30H	1	REFRIGERATED DAIRY AND SYRUP DISJENSE (BR CAPP BLAST-OPTIONAL)	AC DISPENSING	AC220PC																		
30P	1	ICE AND EASY RACKS AND CUPS, HOLDS MEASURED ICE SCOOPS FOR BR ICED BEVERAGES	WASSERSTROM	6012041																		
40B	2	TRASH RECEPTACLE, 23 1/8"D x 11"W x 24 7/8" H FOR COFFEE STATIONS	RUBBERMAID	3541																		
41	2	18"W x 34"D HAND SINK W/12" SPLASH GUARDS & DD GREEN FAUCET - SEE PLUMB DWGS.	UNIVERSAL	DD-18CBT34-RL	D036264		1/2"	1/2"		1-1/2"												COMPONENT HARDWARE FAUCET T&S #TSB1100
45A	1	WALL MOUNT SHELF, 14" x 24" FOR DUMP SINK W/(2) WALL MOUNT BRACKETS, METRO 1WD14K3	METRO	1424NK3																		
49	1	18"W x 34"D DUMP SINK w/ 12" SPLASH GUARDS	UNIVERSAL	DD-18CBT34RL-16	D036264		1/2"	1/2"		1 1/2"												COMPONENT HARDWARE FAUCET T&S #TSB1100
50B	1	TRASH RECEPTACLE, 11 3/8" x 8 1/4" x 12 1/8" TALL, USED FOR FRONT LINE POS AND HAND SINK STATIONS.	RUBBERMAID	2955																		
50F	1	FOUR SECTION VERTICAL WIRE RACK CUP HOLDER	DISPENSE-RITE	WR-CT-4																		
50H	1	MOBILE CUP CADDY 8 CUP	DCP	912173																		
56B	1	72" x 36" STAINLESS STEEL FINISHING TABLE WITH 10" DEEP OVERSHELF	UNIVERSAL	DD-6SLCB36-OSZES																		
60A	2	DIPPERWELL	BUILT-IT	9022			21-6		1/4"		1/2"											
61-1	2	DIPPING CABINET - 88 1/8"W x 29 3/4"D x 52 1/8" W/CURVED GLASS	GLOBAL	CKDC 87 V-BR								115	1	11.5	15	4	Y	NEMA 5-15				
68	1	(6) TUB/FACING ICE CREAM CHEST	GLOBAL	4DF								115	1		115		Y	NEMA 5-15P				
70R	1	TISSUE BAG AND BOX HOLDER FOR DRIVE THRU RACK	UNIVERSAL	DD-DSNP71435																		
76-1	1	MERCHANDISER	MILLWORK SUPPLIER	DWG476																		
82A	2	4 TIER x 4 WIDE (16 FACING TROLLEY) FRONT LINE BAKERY CASE (NEXT GEN)	VULCAN	1019990-44								120	1	1	15	2	Y	NEMA 5-15				
96.4	1	ESPRESSO MACHINE	SCHAEFER	1550-PS-DD-40671							1"											SUPPLIED W/ SOFTENER/FILTER COMBO SYSTEM
96J	3	SWIRL/COOLATTA SYRUP RACK	WIREFAB	WF31701																		
96Q	1	ESPRESSO SPEED RAIL	WIREFAB	WF 33801																		
96S	1	WALL MOUNT SHELF, 14" x 24" w/ESPRESSO w/(2) WALL MOUNT BRACKETS, METRO 1WD14C	METRO	1424NC																		
101C-3	1	DAIRY DISPENSER - AUTO PORTION	SILVER KING	SKCED12-V3-1-KE1								120	1	1.8	15			NEMA 5-15				
101G	2	SPEED RAIL FOR LIDS - 20"	MICROWIRE	AD-HLDR-2																		
101H	1	SUGAR/TEA BAG-STIRRER, HOLDER, 13"	MICROWIRE	AD-SH-1																		
101L	1	PORTION CONTROLLED GRANULAR & POWDER DISPENSER	SURE SHOT	AC2-GP								120	1	0.5	60		Y	5-15R				
101M	1	SPRAYER (BACKLINE INITIATION STATION)	COMPONENT HARDWARE	KN650-1400-44						1/2"	1 1/2"											
101Q-3	1	MULTI-HOPPER GRINDER	BUNN-O-MATIC	35600.0041								120	1	11	15	2	Y	NEMA 5-15				BUNN PROVIDED CORD & PLUG INSTALLED BY GENERAL CONTRACTOR
102A	1	FLAVOR 9 PUMP COUNTERTOP RACK	WIREFAB	WF30563																		
108A-1	1	HOT WINTER BEVERAGE MACHINE	BUNN-O-MATIC	DD HWB				1/2"				120/208	1	21.7	30	3W + 1G	Y					BUNN PROVIDED CORD & PLUG INSTALLED BY GENERAL CONTRACTOR
116.1	1	MAGNABLEND BLENDER/ISLAND OASIS WITHOUT RINSE 12 1/4"W x 18"D x 25 1/2"H	TAYLOR	SB2512-WDD				1/2"		1 1/4"		110	1	5.3								***VERIFY ALL ELECTRICAL REQUIREMENTS w/MANUFACTURER
116E	1	ISLAND OASIS CUP/LID RACK (LEFT) 16"W x 10"D x 16 1/4"H	WIREFAB	33180																		
116F	1	ISLAND OASIS TOPPINGS RACK (RIGHT) 11"W x 8.5"D x 26 3/4"H, 3-TIER PAN RACK w/DROP-IN SHELF	WIREFAB	33179																		
120F-1	3	UNDERCOUNTER REFRIGERATOR - 27" W/ CASTERS - RIGHT HINGE	DELFIELD	406-CA-SPL-RHH	7	SA 4769						115	1	7	15	3	Y	NEMA 5-15				RIGHT HAND HINGE
120F-2	1	UNDERCOUNTER REFRIGERATOR - 27" W/ CASTERS - LEFT HINGE	DELFIELD	406-CA-SPL-LHH	7	SA 4769						115	1	7	15	3	Y	NEMA 5-15				LEFT HAND HINGE
124A	1	TWIN SH BREWER	BUNN-O-MATIC	51200.0106					1/2"			120/208	1	40	50	4		NEMA 14-50				
124B	5	1.5 GAL SH SERVER	BUNN-O-MATIC	27850.0201																		
124E	1	SINGLE SH BREWER	BUNN-O-MATIC	INFUSION SH					1/2"			120/208	1	16.8	20	4		NEMA L14-20				
124G	1	TWIN SH STAND w/WIFI	BUNN-O-MATIC	27875.0201								120	1	1.8	VIF	2	Y	NEMA 5-15				***VERIFY ALL ELECTRICAL REQUIREMENTS w/MANUFACTURER
130	1	DONUT/BAKERY RACK AT DRIVE THRU - 35" W x 28" D	UNIVERSAL	DD-36SLC-29-RK-C																		
140A	2		DISPENSE-RITE	WR-4																		
171B	2	DRIVE THRUV READY TO GO MAT	TRYAD	2.1																		
172	1	DRIVE THRU STAGING CART	METRO	DD-DT30																		
200A	1	ICED COFFEE BREWER - #IC3-DBC W/ ICDD	BUNN-O-MATIC	45100.01		**		1/2"				120/208	1	19.5	30	4	Y	NEMA L14-30		6' CORD TO BE PROVIDED & INSTALLED BY GENERAL CONTRACTOR		**E34066
201A	2	ICE CADDY	CAMBRO	ICS100L 157																		
215	2	BULLET OVEN W/STONE, PEEL AND (2) TRAYS - EXTENDED WARRANTY INCLUDED	TURBO CHEF	ENC-9600-640-30EM								208	1	30	30		Y	NEMA 6-30				
215T	1	STAINLESS STEEL CART 26"W x 30"D x 20"H REINFORCED TO HOLD (2) TURBO CHEF OVENS	UNIVERSAL	DD-25SL5-3020-C																		
244A	1	DUAL LANE TOASTER	HATCO	ITQ-1750-2C								240	1	20.7			Y	NEMA 6-30P				
245A-1	1	27" TOAST STATION	DELFIELD	DETS27																		
246A-1	1	12 BAY HOLDING UNIT 33" W x 16"D x 16.5"H	CARTER HOFFMAN	MZ343S-DD								120		15			Y	NEMA 5-20P				
247-2	1	32" ASSEMBLY STATION REFRIGERATOR w/OVERSHELF, INCLUDES 12" EXPEDITOR STATION	DUKE	DD32ASSEMBLY								115		9.3			Y	NEMA 5-20P				
257	1	8 TAP SYSTEM W/GENERATOR	MICROMATIC	MDD-69G-E-DD					1/2"	1/2"	1"	115	1	11.1	20	2	Y	NEMA 5-15				
259	1	DISHWASHER	HOBART	LXR-2			1/2"			1"		208	1	30.5	40	4						PROVIDE 9" ADJACENT TO UNIT FOR CHEMICALS
283-1	1	ONE GLASS DOOR MERCHANDISER, FINISH: BLACK	TURBO AIR	TGF-23F(B)	YES							115/60/1		8.2			Y	NEMA 5-15P		2/3 HP		
326	1	DD-OTG 3 TIER WATERFALL PICK UP STATION	DGS RETAIL																			
395	1	HAND WASHING SINK W/ SIDE SPLASHES - FOR BACK OF HOUSE ONLY	UNIVERSAL	EHS-1RL-WH			1/2"	1/2"		1 1/2"												
402	1	EMPLOYEE LOCKER, 12"W x 12"H x 18"D, 6 TIER	KELMAX	4K0090E																		
409F	1	ICE BIN - 893# CAPACITY	SCOTSMAN	B948S																		

JAMBA JUICE EQUIPMENT SCHEDULE

EQUIPMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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TravelCenters of America LLC
Tejon TravelCenter of America
5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description:		
ISSUED FOR PERMIT		
Revision Schedule		
#	DATE	DESCRIPTION

Project #: 19027
Issue Date: 08/21/2019

E4.02

CHARLEY'S EQUIPMENT SCHEDULE

ITEM	SPECIFICATION				ELECTRICAL					
	QTY.	MFG.	MODEL	DESCRIPTION	VOLTS	Ø	AMP	KW	HP	CONN.
ELECTRONIC EQUIPMENT	CPSW 1			156" X 39" STANDARD ARTWORK MENU BOARD						
	E1 2	BY OWNER	BY OWNER	CASH REGISTER W/ EXTRA TILL	120	1	20	0.36	-	C/P
	E2 2	BY OWNER	BY OWNER	GOOSENECK MICROPHONE W/ 13" FLEX	120	-	-	0.10	-	-
	E02 1				120	-	-	0.10	-	-
	E4 2	BY OWNER	BY OWNER	REGISTER PRINTER	120	-	-	0.36	-	-
	E5 2				120	-	-	0.10	-	-
	E7 3	BY OWNER	BY OWNER	LCD ORDER MONITOR	120	-	-	0.10	-	-
	E8 3				120	-	-	0.10	-	-
	E10 1	BY OWNER	BY OWNER	TELEPHONE	120	-	-	-	-	-
	E13 1	BY OWNER	BY OWNER	COMPUTER (CPU), KEYBOARD, & MOUSE	120	-	-	-	-	-
MECHANICAL	E14 1	BY OWNER	BY OWNER	COMPUTER MONITOR	120	-	-	-	-	-
	E15 1	BY OWNER	BY OWNER	COMPUTER PRINTER & PRINTER CABLES	120	-	-	-	-	-
	H1 2	CAPTIVEAIRE	CUSTOM	TYPE 1 EXHAUST HOOD W/ SELF-CONTAINED M/U AIR, ROOF CURB, & ROOFTOP EXHAUST FAN	120	-	0.1	-	-	-
	H2 1	ANSUL	R-102	HOOD FIRE SUPPRESSION SYSTEM	120	-	0.1	-	-	-
	K1-1 1	MAGIKITCHN	MKG 48	GAS GRILL, 120000 BTU, LOW PROFILE, 48" GRIDDLE PLATE W/ CORD & PLUG FOR CONTROLS	120	1	0.88	-	-	-
	K2-1 3	PITCO	SG14RS-1FD	SOLSTICE PREPACKAGED FRYER SYSTEM W/ SOLO FILTER, 40-50 LB TANK, MILVOLT CONTROL, FRONT & SIDES, UNDER-FRYER DRAINER FILTRATION, 10" CASTERS, 122,000 BTU	120	1	0.88	-	-	-
	K2-3 3	16500 KIT2S-48	DORMONT	GAS CONNECTOR KIT, LOCATED AT FRYER						
	K3-1 1	PITCO	BNB-SG14	SOLSTICE BREAD & BATTER CABINET WITH DUMP STATION, FRYER MATCH DESIGN, 15 5/8" WIDE, INCLUDES 4 5/8" RECESSED PAN/SCREEN, STANDARD FINISH, SS FRONT, FOR PREPACKAGE SYSTEM SG 14 GAS FRYERS	120	1	6.3	0.75	-	-
	K3-2 1	PITCO	PFW-1	DUMP STATION MOUNTED HEAT LAMP, 750 WATT HEAT LAMP						
	K4 1	PITCO	FAT VAT	FAT VAT TRANSPORT SYSTEM, 40 LB CAPACITY						
KITCHEN EQUIPMENT	K5 1	LINCOLN	V2501/1346 + 1342 (SHELF) + 1345 (CONVEYOR END STOP)	ELECTRIC, VENTLESS, SINGLE-DECK, EXTENDED 50" CONVEYOR, DIGITAL CONTROLS, 208V/60/1-PH, 27.0 AMPS, 3 WIRES, 6.0 KW						
	K5-1 1	APW WYOTT	M-95-2	VERTICAL BREAD TOASTER, 240V/60/1-PH, 11.6 AMPS, 2.78 KW	208	1	13.4	2.78	-	NEMA 6-20P
	K6 1	SERVER PRODUCTS	81290	HOT TOPPING DISPENSER, INSTALLED BY GC	120	1	8.3	1.00	-	C/P
	K9 2	TURBO AIR	MST-28-12	REFRIGERATOR (SANDWICH/SALAD PREP)	115	1	2.8	-	-	NEMA 5-15P
	K10 1	TURBO AIR	MST-48-18	REFRIGERATOR (SANDWICH/SALAD PREP)	115	1	4.4	-	1/4	NEMA 5-15P
	K11 1	GRINDMASTER	D15-3	CRATHCO CLASSIC BUBBLER PRE-MIX COLD BEVERAGE DISPENSER, SINGLE, ELECTRIC, (1) 5 GALLON CLEAR POLYCARBONATE BOWL, 2 PIECE STAINLESS STEEL DRIPLESS DISPENSE VALVE, 35-41 DEG. F., 8 1/4" CUP CLEARANCE						
	K14 1	FABRICATED	CUSTOM	DROP-IN ICE BIN						
	K16 1	TURBO AIR	TUR-28SD-D2	UNDERCOUNTER REFRIGERATOR W/ DRAWERS						
	K17 1	TURBO AIR	TUF-28SD-D2	UNDERCOUNTER FREEZER W/ DRAWERS						
	K18 1	APW WYOTT	HDDIS-2	X'PERT SERIES WARMING DRAWER, SLIMLINE, FREESTANDING, 2 DRAWERS, HOLDS (1) 12"X20"X6.5" PAN PER DRAWER, 120V 7.5 AMPS	120	1	7.5	0.90	-	NEMA 5-15P
PLUMBING EQUIPMENT	P4 3	ADVANCE TABCO	7-PS-20	DECK MOUNTED HAND SINK W/ BACKSPLASH & FAUCET						
	P6-1 1	ADVANCE TABCO	FS-1-1818-18L	SINGLE COMPARTMENT PREP SINK W/ DRAIN BOARD						
	P6-2 1	ADVANCE TABCO	K-1	SPLASH MOUNT FAUCET						
	P7-1 1	AERO MANUFACTURING	MF3-2116-18LR	THREE COMPARTMENT SINK W/ TWO DRAIN BOARDS						
	P7-2 1	ADVANCE TABCO	DTA-53	PRE-RINSE ASSEMBLY						
	P8 1	SCOTSMAN	CU2026SA-1	SELF-CONTAINED ICE MACHINE						
	P11-1 1	GSW	GSW USA SE2024FM	MOP SINK, FLOOR MOUNT, 21"W X 21"L X 9" D BOWL, INCLUDES PLASTIC BASKET STRAINER, STAINLESS STEEL CONSTRUCTION						
	P11-2 1	ADVANCE TABCO	K-240	SERVICE SINK FAUCET						
	P14 1	--	--	WATER HEATER						

EQUIPMENT NOTES:

- ALL EQUIPMENT SHALL BE PURCHASED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR. SIGNAGE IS TO BE INSTALLED BY SIGN VENDOR.
- FOOD SERVICE AND BEVERAGE DISPENSING EQUIPMENT SHALL COMPLY W/ NSF REQUIREMENTS AND REQUIREMENTS OF LOCAL HEALTH OFFICIALS HAVING JURISDICTION.
- INSTALLATION AND CONNECTION OF ALL FOOD SERVICE EQUIPMENT IS TO BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- SHELVING UNITS SHALL BE ASSEMBLED AND SET INTO PLACE BY THE GENERAL CONTRACTOR.
- FOOD SERVICE EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION IS TO BE FURNISHED W/ CORD AND PLUG UNLESS OTHERWISE INDICATED.
- VERIFY THE ELECTRICAL AND MECHANICAL REQUIREMENTS OF FOOD SERVICE EQUIPMENT PRIOR TO INSTALLATION.
- SINKS SHALL BE PROVIDED W/ DRAIN TAILPIECES AND FITTINGS. THE GENERAL CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES, SUPPLIES, AND TRAPS NECESSARY TO CONNECT SUCH SINKS.
- PROVIDE SHUT-OFF VALVE AT HOT AND/OR COLD WATER SERVICE TO EACH PIECE OF EQUIPMENT REQUIRING WATER CONNECTION(S).
- PROVIDE A BACKFLOW PREVENTER AT EACH PIECE OF EQUIPMENT REQUIRING WATER CONNECTIONS (NOT INCLUDING SINKS).
- APPLIANCES WITH CASTERS: MOVEMENT OF APPLIANCES SHALL BE LIMITED BY A RESTRAINING DEVICE INSTALLED IN ACCORDANCE WITH THE CONNECTOR AND APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER CMC SECTION 303.5.

DS ARCHITECTURE

Kent, OhioCleveland, Ohio

DS Architecture is a Limited Liability Company

REGISTERED PROFESSIONAL ENGINEER

SEAN M. JOHNSON

No. 188513

EXP. 12/31/19

ELECTRICAL

STATE OF CALIFORNIA

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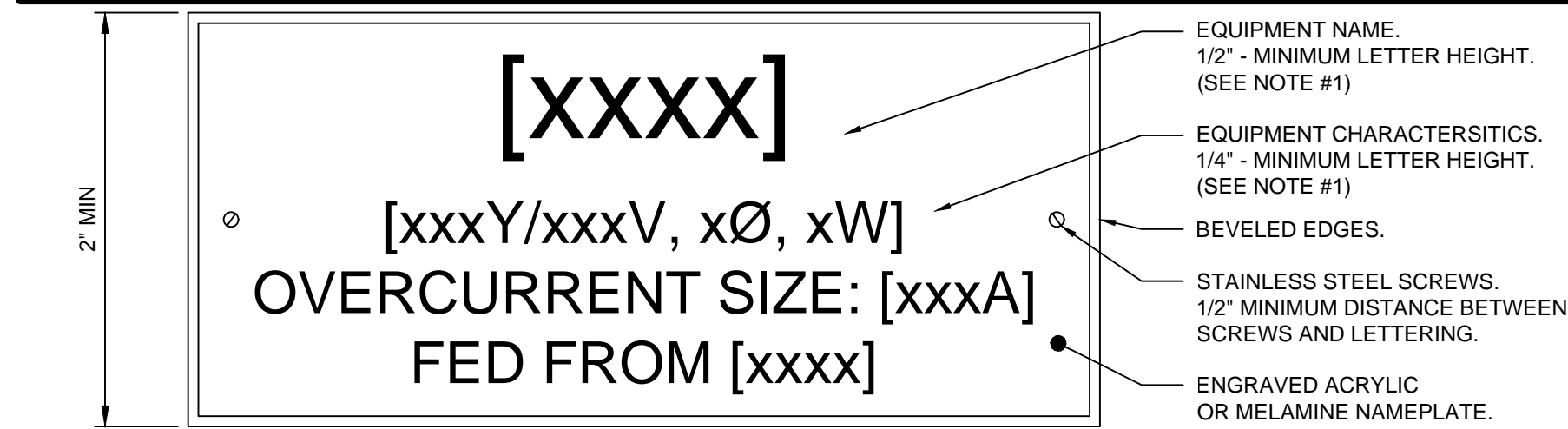
TravelCenters of America LLC
Tejon TravelCenter of America

5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

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E4.03



NAMEPLATE COLORS

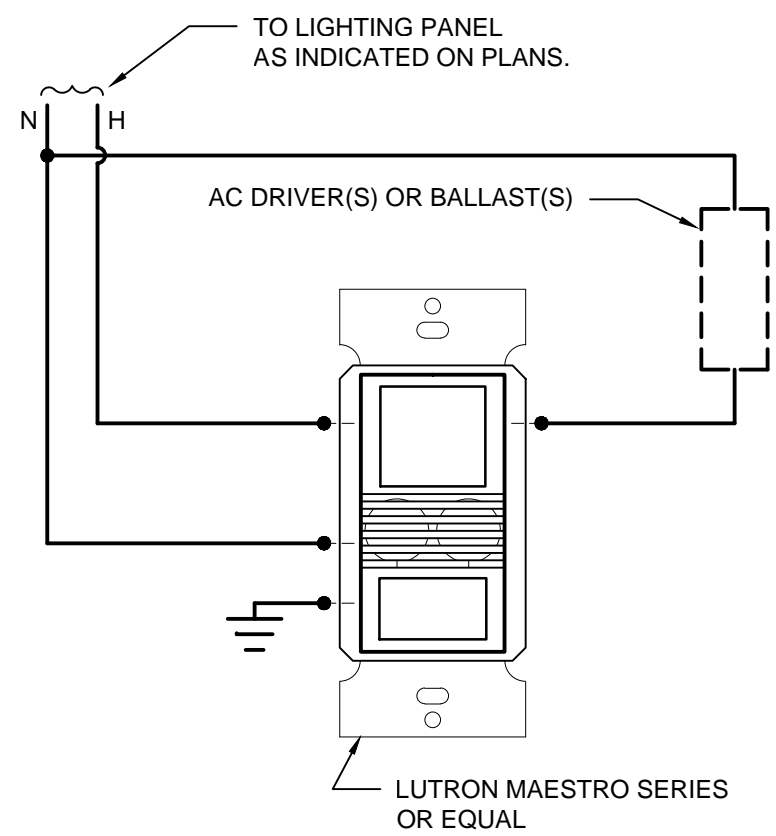
SYSTEM TYPE	BACKGROUND	LETTERS
NORMAL	WHITE	BLACK
LIFE SAFETY	RED	WHITE
OPTIONAL STANDBY	YELLOW	BLACK

NOTES:

- TEXT INCLUDED IN BRACKETS INDICATES INFORMATION SPECIFIC TO EACH PIECE OF EQUIPMENT.
- SCREWS SHALL NOT CHANGE THE NEMA RATING OF THE ENCLOSURE
- FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPECIFICATIONS.

1 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL

NOT TO SCALE



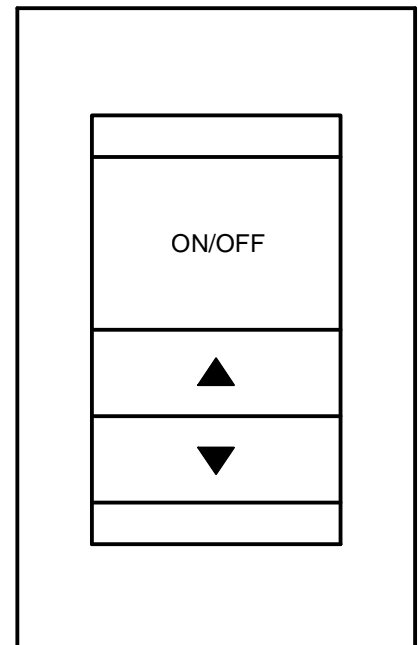
NOTES:

- USE THIS WIRING DIAGRAM FOR SINGLE CIRCUIT LIGHTING SCHEMES.
- FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTION 260923.

4 DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH WIRING DIAGRAM

NOT TO SCALE

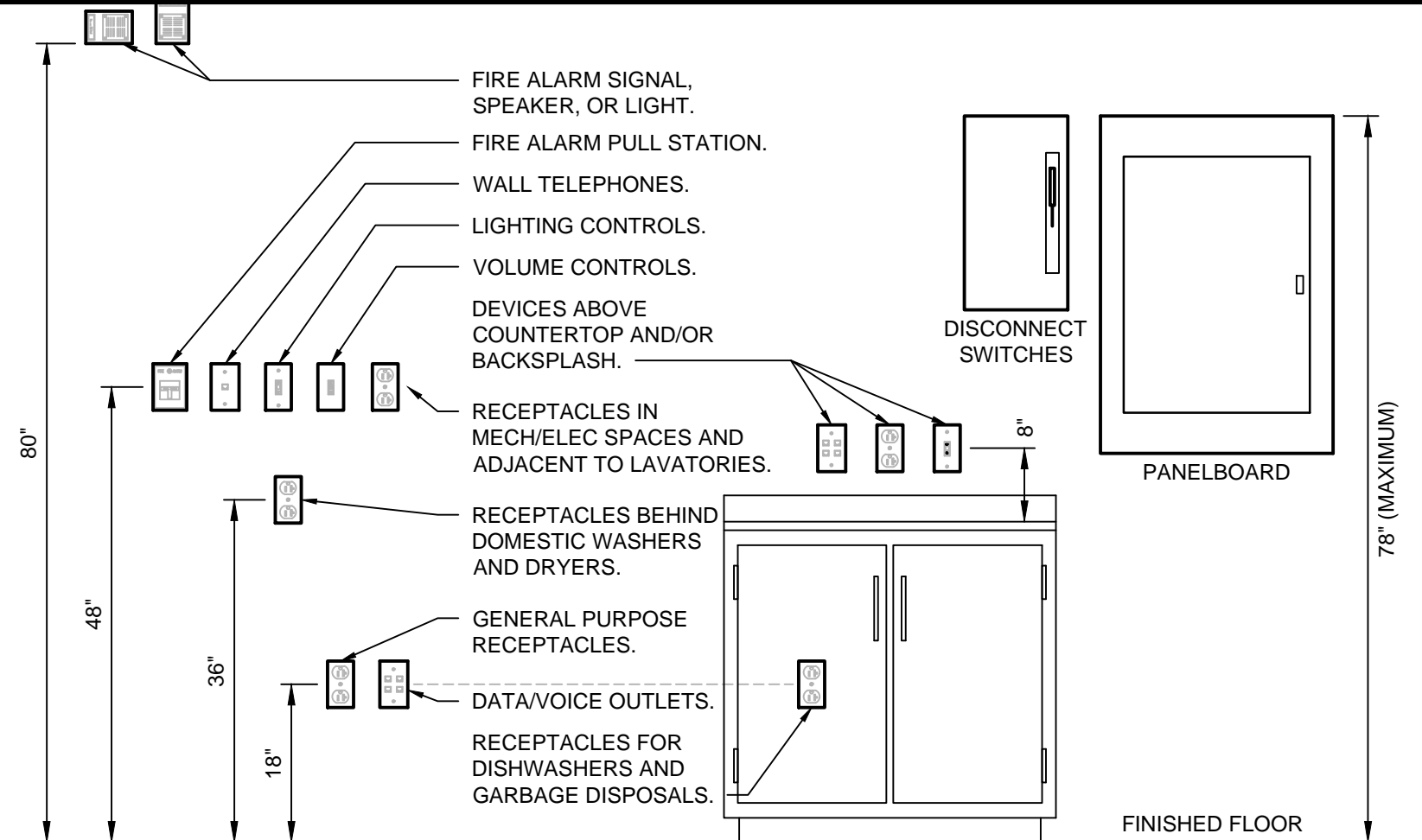
TYPE "LVB" FACEPLATE



WALL SWITCH WITH 0-10V DIMMING.
nLIGHT CATALOG #nPDM DX OR EQUAL.

6 TYPE "LVB" FACEPLATE

NOT TO SCALE

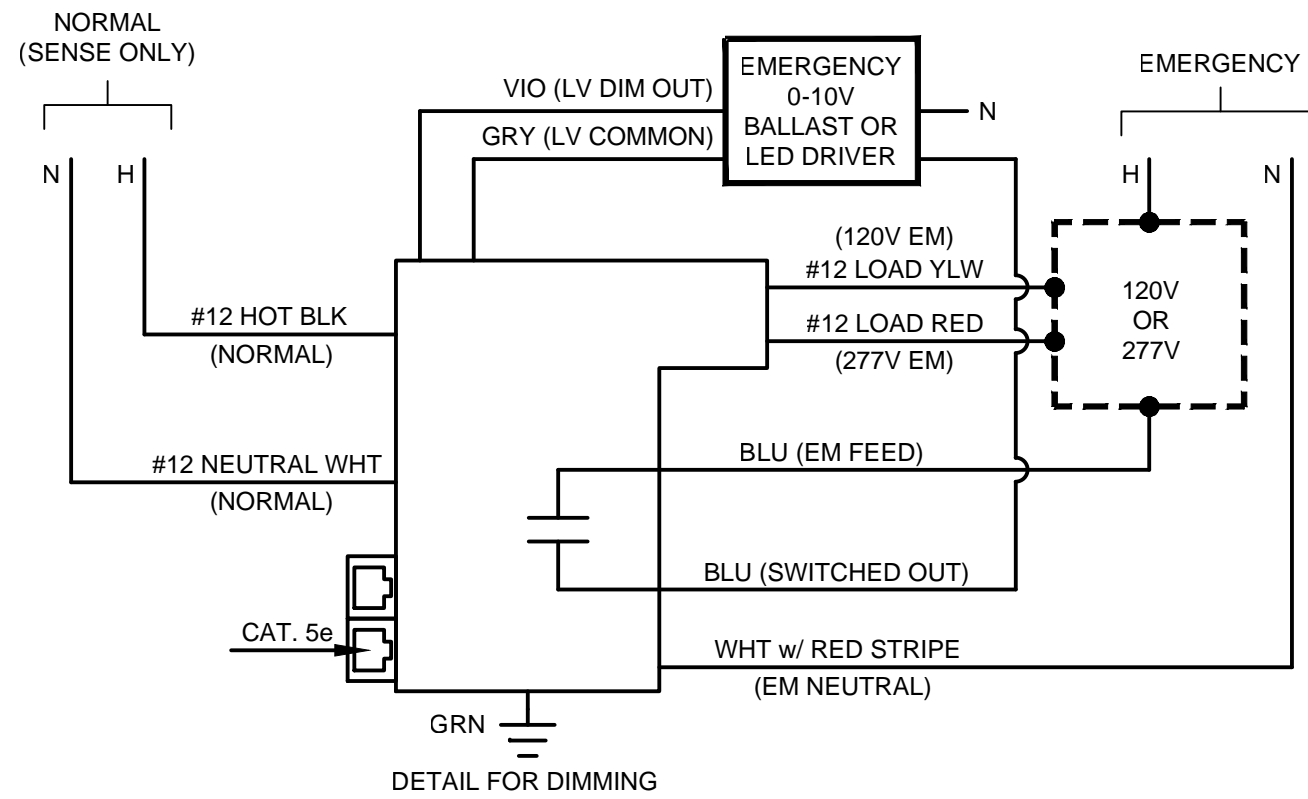


NOTES:

- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF DEVICES EXCEPT FIRE ALARM A/V DEVICES.
- NO WIRING DEVICES OR OUTLET BOXES SHALL BE MOUNTED BACK TO BACK.
- ALL MOUNTING HEIGHTS SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS NOTED OTHERWISE.
- FOR ALL ELEVATIONS (WHERE APPLICABLE), CASEWORK DETAILS, FIRE WALLS, SMOKE WALLS, LOCATION OF COUNTERTOP RECEPTACLES, LIGHTING FIXTURE SWITCHES, TELEPHONE OUTLETS, EQUIPMENT ROUGH-INS, HEADWALLS, ETC., SEE ARCHITECTURAL DRAWINGS. WHERE NO ARCHITECTURAL ELEVATIONS OR DETAILS OCCUR, CONTRACTOR SHALL USE MEANS AND METHODS AS WELL AS HIS/HER FIELD KNOWLEDGE TO SPOT DEVICES IN BEST LOCATIONS FOR THE PROJECT.
- ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS:
GENERAL DEVICES: 15" MINIMUM, 48" MAXIMUM.
ABOVE COUNTER DEVICES: 44" MAXIMUM.
FIRE ALARM SIGNAL, SPEAKER, AND/OR LIGHT DEVICES: 80" MINIMUM, 96" MAXIMUM.

2 TYPICAL MOUNTING HEIGHTS OF DEVICES

NOT TO SCALE

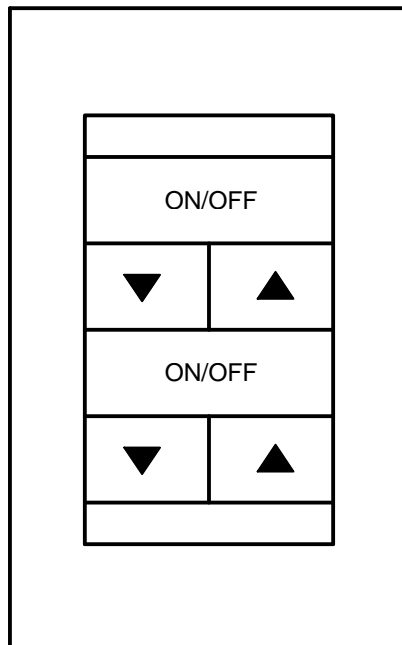


5 GTD/nPP16 - EMERGENCY TRANSFER DEVICE DETAIL

SCALE: NONE

GTD20A OR EQUAL FOR ROOMS WITH NO DIMMING AND NO LOW VOLTAGE CONTROLS.
nPP16 EMERGENCY POWER/RELAY PACK OR EQUAL FOR ROOMS WITH DIMMING AND LOW VOLTAGE CONTROLS.

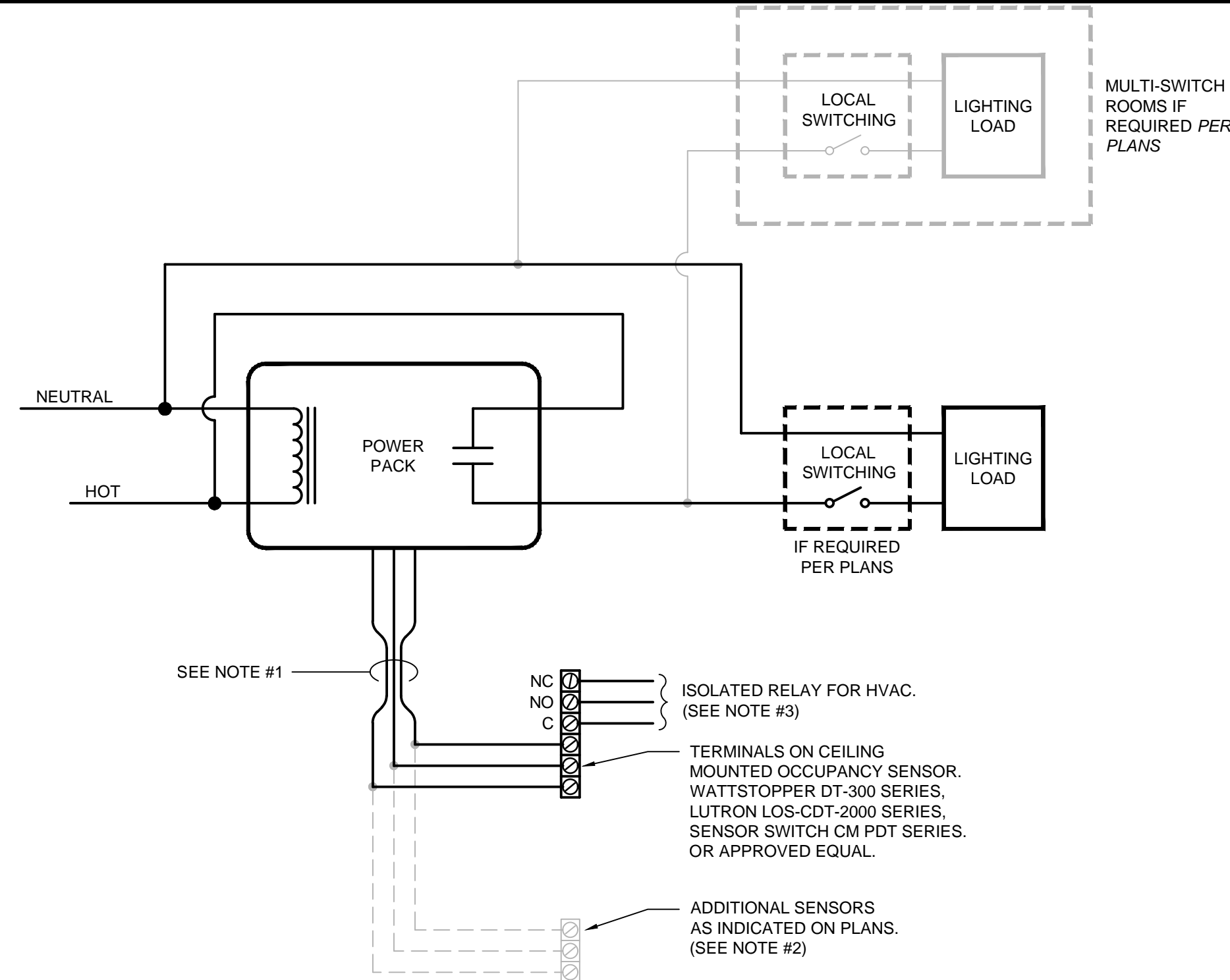
TYPE "LVD" FACEPLATE



WALL SWITCH WITH
2 LIGHTING ZONES AND 0-10V DIMMING.
nLIGHT CATALOG #nPDM 2P DX OR EQUAL.

7 TYPE "LVD" FACEPLATE

NOT TO SCALE

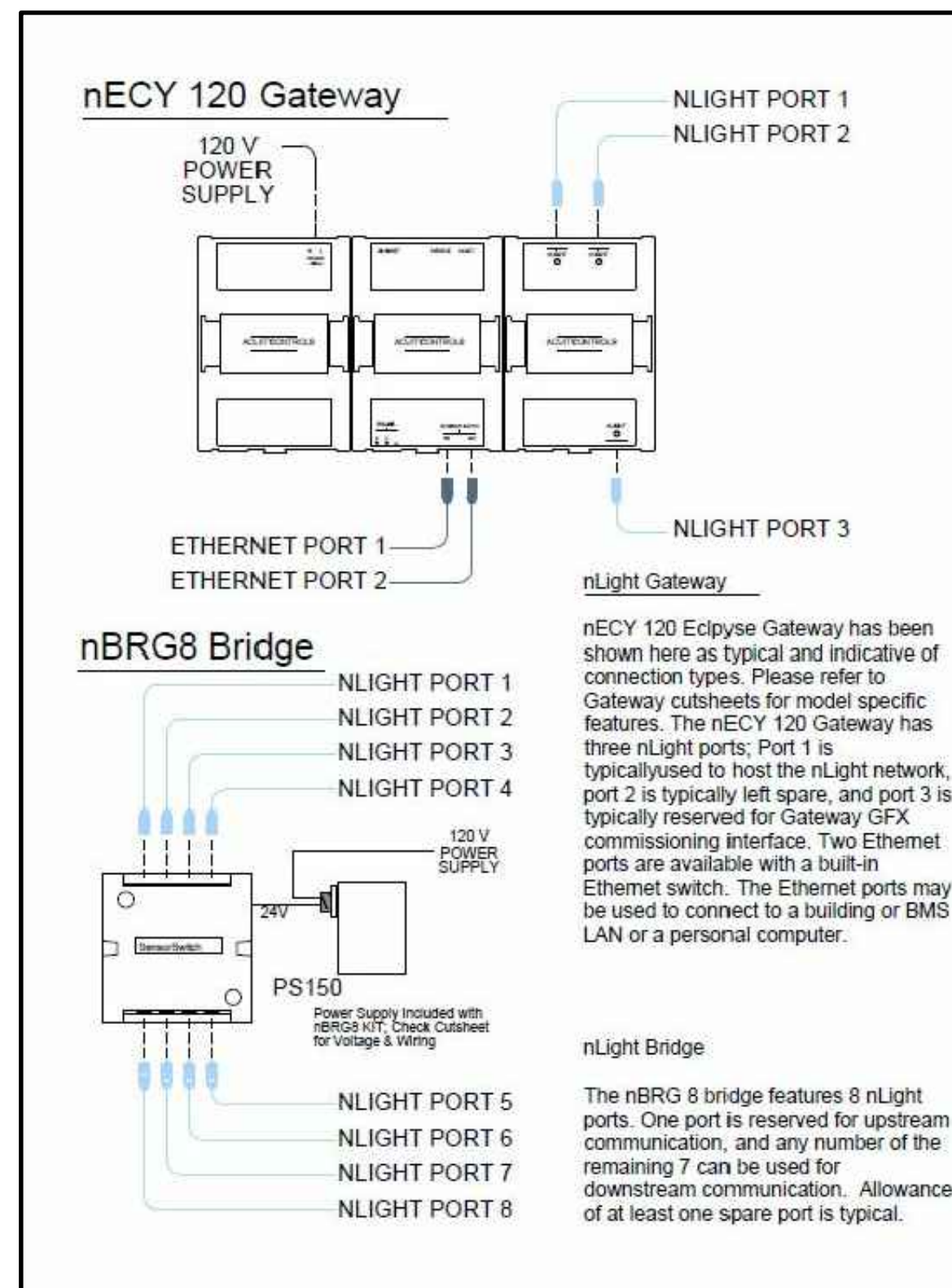


NOTES:

- ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
- MAXIMUM NUMBER OF SENSORS PER POWER PACK IS DEPENDANT ON MANUFACTURER. COORDINATE QUANTITY OF POWER PACKS WITH MANUFACTURER.
- AUXILIARY RELAY IS ENERGIZED DURING 'OCCUPIED' STATE.
- OCCUPANCY SENSOR SHALL BE CAPABLE OF AUTO-ON AND MANUAL-ON (VACANCY) OPERATION.

3 DUAL TECHNOLOGY CEILING SENSOR DETAIL

NOT TO SCALE



8 N-LIGHT nECY WIRING DIAGRAM

NOT TO SCALE



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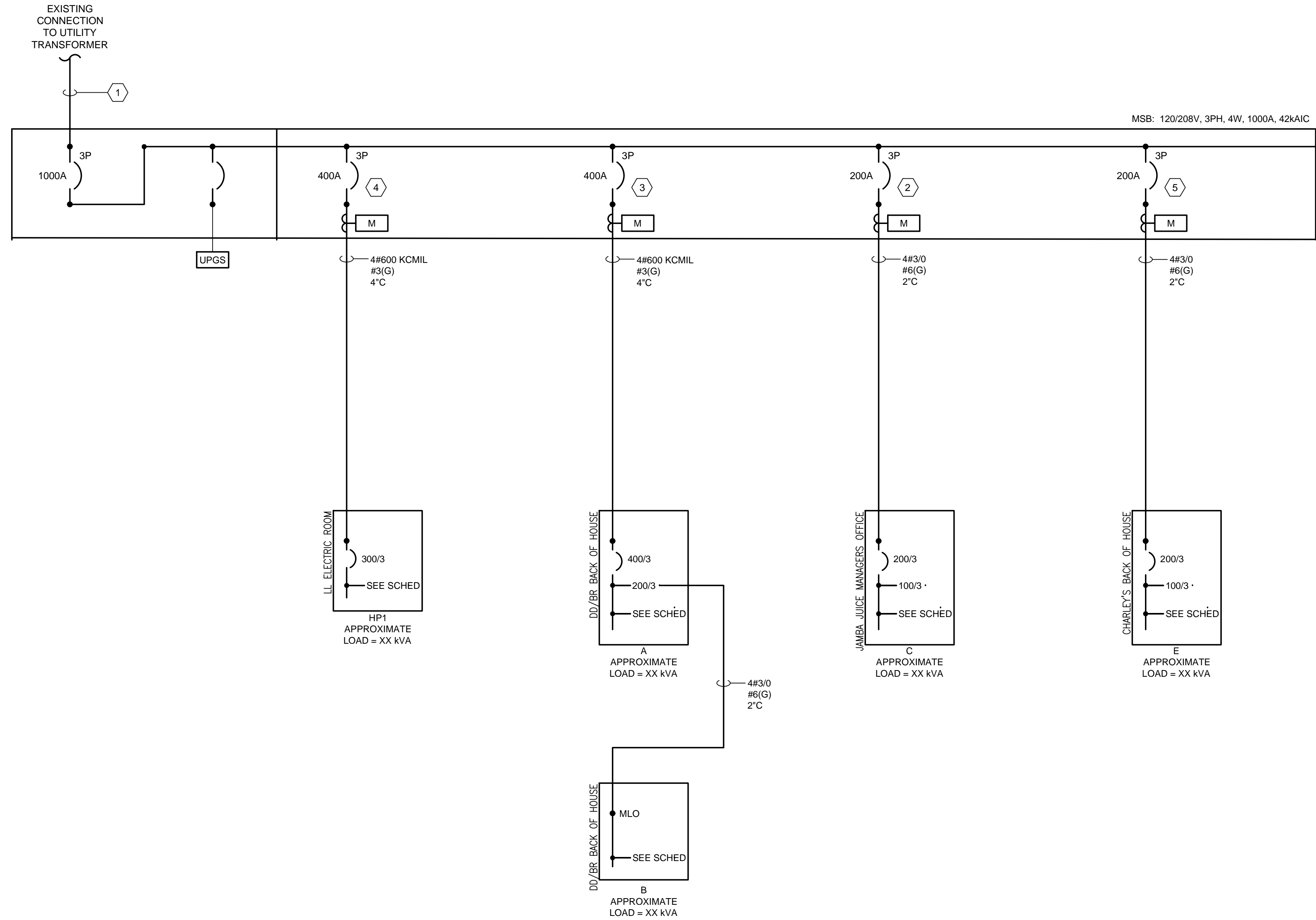
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Project #: 19027
Issue Date: 08/21/2019

E5.01



ONE-LINE DIAGRAM SHEET NOTES

- REFER TO THE FOLLOWING: SYMBOL LEGEND(S) AND NOTES: DWG. E-001; ELECTRICAL DETAILS: DWG. SERIES E-500's; AND ELECTRICAL SCHEDULES: DWG. SERIES E-700's FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SHEET KEYNOTES

- EXISTING CONNECTION TO UTILITY TRANSFORMER TO REMAIN AS IS AND PROVIDED BY LANDLORD.
- E.C. SHALL REPLACE EXISTING 100A CIRCUIT BREAKER WITH A NEW 200A CIRCUIT BREAKER FOR JAMBA JUICE.
- EXISTING 400A BREAKER TO REMAIN FOR NEW DUNKIN DONUTS TENANT.
- E.C. SHALL MAINTAIN EXISTING 400A BREAKER FOR HOUSE PANEL.
- E.C. SHALL PROVIDE A NEW METER AND 200A DISCONNECT FOR NEW CHARLEY'S.

ONE-LINE DIAGRAM SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUTOMATIC TRANSFER SWITCH. NUMBER OF POLES AND AMPERAGE RATING AS NOTED OR SCHEDULED.		THREE PHASE MOTOR. HORSEPOWER AS NOTED OR SCHEDULED. 'XX' INDICATES MOTOR DESIGNATION.
	DRY TYPE TRANSFORMER. KVA, PHASE, PRIMARY AND SECONDARY RATING AS NOTED OR SCHEDULED.		SPACE IN CIRCUIT BREAKER OR FUSED SWITCH DISTRIBUTION PANELBOARD. FRAME SIZE AS NOTED.
	PANELBOARD. DESIGNATION AS NOTED. SEE PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.		CONTROL POWER TRANSFORMER (CPT) OR POTENTIAL TRANSFORMER (PT).
	MOLDED CASE CIRCUIT BREAKER. FRAME AND TRIP SIZES AS NOTED.		CURRENT TRANSFORMER. SIZE AS REQUIRED.
	MOLDED CASE CIRCUIT BREAKER WITH SHUNT TRIP OPERATOR. FRAME AND TRIP SIZES AS NOTED.		SPECIALTY EQUIPMENT/DEVICES. 'XX' STANDS FOR THE FOLLOWING: TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION. GFP GROUND FAULT PROTECTION. C CONTACTOR M METERING EPO EMERGENCY POWER OFF PUSHBUTTON VFD VARIABLE FREQUENCY DRIVE PROVIDE BY DIVISION 23. EC ELEVATOR CONTROLLER PROVIDED BY DIVISION 14
	LOW VOLTAGE FUSED DISCONNECT SWITCH. FUSE AND DISCONNECT SWITCH SIZES AS NOTED.		
	LOW VOLTAGE DISCONNECT SWITCH. DISCONNECT SWITCH SIZE AS NOTED.		



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Tejon TravelCenter of America

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Revision Schedule
DATE DESCRIPTION

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E6.01

Electrical Details

LUMINAIRE SCHEDULE NOTES

1.

LUMINAIRE INDICATED IN SCHEDULE IS BASIS OF DESIGN. CONTRACTOR MAY SUBMIT ALTERNATE BY EATON, ACUITY, HUBBELL, PHILIPS, OR APPROVED EQUAL. FOR ANY LUMINAIRES SUBMITTED OTHER THAN BASIS OF DESIGN LUMINAIRES, A POINT-BY-POINT PHOTOMETRIC PLAN SHALL BE PROVIDED FOR THE PROPOSED LUMINAIRE AS PART OF THE SHOP DRAWING SUBMITTAL. POINT-BY-POINT CALCULATIONS SHALL FOLLOW IESNA RECOMMENDED PRACTICES AND INCLUDE LIGHT LOSS FACTOR (LLF) USED FOR ALL LUMINAIRE TYPES, SURFACE REFLECTANCES, AVERAGE FOOTCANDLE LEVEL, MINIMUM FOOTCANDLE LEVEL(S), AND MAXIMUM-TO-MINIMUM RATIO FOR ALL AREAS WHERE ALTERNATE PROPOSED LUMINAIRE IS TO BE INSTALLED (ONE CALCULATION FOR TYPICAL AREAS IS ACCEPTABLE).
2.

ALL LUMINAIRES SHALL BE IN ACCORDANCE WITH THE LUMINAIRE SCHEDULE. THE LUMINAIRE SCHEDULE PROVIDES THE MANUFACTURER AND CATALOG NUMBER. THE LUMINAIRE PROVIDED SHALL CONFORM TO THE DESCRIPTION IN THE LUMINAIRE SCHEDULE, THE MANUFACTURER AND CATALOG NUMBER, AND ALL PROVISIONS OF THE CONTRACT DOCUMENTS.
3.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES, LUMINAIRE COLORS, LENGTHS, TRIMS, FINISHES, MOUNTING HARDWARE, CONFIGURATIONS AND HEIGHTS OF SUSPENDED LUMINAIRES, ETC. WITH ARCHITECT PRIOR TO ANY ROUGH-INS AND PLACING FINAL PURCHASE ORDERS.
4.

VERIFY FINAL LUMINAIRE LOCATIONS WITH OTHER CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, FIRE ALARM DEVICES, SPEAKERS, ETC. WITH ARCHITECTURAL RCP (REFLECTED CEILING PLANS).
5.

VERIFY EXACT HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT/CABLE MOUNTED LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ANY ROUGH-IN.
6.

LUMINAIRES SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING SUPPORTS UNLESS ADDITIONAL CEILING FRAMING AND SUPPORTS ARE ADDED BY THE CEILING CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, U.L. LISTINGS, AND ANY APPLICABLE STATE OR LOCAL CODES.
7.

CONNECTIONS TO RECESSED LUMINAIRES SHALL BE MADE WITH MINIMUM 1/2" FLEXIBLE METAL CONDUIT (FMC) FROM FIXTURE TO OUTLET BOX. LENGTH OF FMC SHALL NOT EXCEED 6'.
8.

AT THE CONCLUSION OF THE WORK, EACH LUMINAIRE MUST BE CLEANED PER MANUFACTURER'S INSTRUCTIONS, EQUIPPED WITH THE PROPER TYPE, NUMBER OF LAMPS, INCLUDING KELVIN TEMPERATURE AND WATTAGE, AND ALL IN GOOD OPERATING CONDITION.
9.

LIGHT FIXTURE COLOR TEMPERATURE SHALL BE 4000K MINIMUM UNLESS OTHERWISE NOTED.
10.

NOMINAL LUMEN VALUES MAY VARY BETWEEN DIFFERENT MANUFACTURERS OF SAME TYPE OF LUMINAIRE. NOMINAL LUMEN VALUES GIVEN IN SCHEDULE ARE THE VALUES USED FOR DESIGN.
11.

FINAL COLOR SELECTION BY ARCHITECT/OWNER AT FIXTURE SUBMITTAL.
12.

LENSED FIXTURES SHALL HAVE A MINIMUM OF 0.125" THICK ACRYLIC LENS UNLESS OTHERWISE NOTED.
13.

FIXTURES DESIGNATED AS "EM" SHALL HAVE EMERGENCY BATTERY PACK OPTION. PROVIDE ADDITIONAL WIRING AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS FOR VOLTAGE SENSING.
- **UNV = MULTI-VOLTAGE BALLAST/DRIVER (120/277 VOLT OPERATION).



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Luminaire Schedule

ELECTRICAL LUMINAIRE SCHEDULE - INTERIOR LIGHTING

TYPE	DESCRIPTION	VOLTAGE	LED LAMPING	FIXTURE WATTS	MANUFACTURER	SERIES
D1	6" DIAMETER DOWNLIGHT FOR RETROFIT DESIGN. 82 CRI, 0-10V DIMMING, 1%	120 V	1800 LUMEN 3500K CCT	26 W	CURRENT BY GE	LRX
P1	TRACK MOUNTED FLOOD LIGHT, 30K WHITE. PROVIDE CLEAR NARROW FLOOD REFLECTOR "24MHT4RNK". REFER TO NOTE 1.	120 V	-	25 W	CONTECH	CTL8072M3D-P
P2	DIRECTION DOWNLIGHT FOR MENU BOARD ILLUMINATION.	120 V	-	150 W	RED DOT	CTL8072M3D-P
R1	2X2 ARCHITECTURAL RECESSED LED WITH CURVED LINEAR PRISM DIFFUSER AND 0-10V DIMMING DRIVER.	120 V	5000 LUMEN 3500K CCT	41 W	CURRENT BY GE	LBT22
R4	LED DIRECT LINEAR WITH SATINE LENS	120 V	962 LUMEN 3500K CCT	13 W/FT	PINNACLE	EDGE EX2N
W1	LED WALL WASH FIXTURE, 0-10V DIMMING, BRONZE, 30K COLOR TEMP	120 V	220 LUMEN 3000K CCT	22 W	MODERN LIGHTING	MFLBD
EX	EXTRUDED ALLUMINUM FRAME RECESSED EXIT SIGN WITH BATTERY BACKUP.	120 V	N/A	5 W	LITHONIA LIGHTING	LQM

- NOTE:
1.

CONTRACTOR SHALL COORDINATE WITH LIGHTING SUPPLIER THE CORRECT WATTAGE FOR THE CURRENT LIMITERS FOR TRACK LIGHTING AND TITLE 24 COMPLIANT REGULATOR END FEED/CURRENT LIMITING DEVICE.
2.

ALL LIGHT FIXTURES SHALL BE PURCHASED THROUGH ONE OF THE TWO FOLLOWING SUPPLIERS:
- 2.1.

INLINE ELECTRIC SUPPLY
BRENT WIGGINGTON
423-508-8300
BWIGGINGTON@INLINELECTRIC.COM
- 2.2.

ILLUMINATING TECHNOLOGIES
ALISON FRIEND THIBAUT
800-279-6483
ALISON@ILLUMINATINGTECHNOLOGIES.COM

MFR	SQUARE D	PANEL NAME	HP-1			LOCATION	LANDLORD ELEC RM							
TYPE	NQOD					MOUNTING	SURFACE							
BUS	COPPER	SERVICE:	L-L 208	L-N	120	DWG. NO.	E-200, E-601							
* - Denotes GFCI Type Breaker ** - Denotes Shunt Trip Type Breaker														
DESCRIPTION	LOAD AMPS	BREAKER POLE	AMPS	A	B	C	KILOVOLT-AMPS A	B	C	BREAKER POLE	AMPS	LOAD AMPS	DESCRIPTION	
LIGHTS - ELEC ROOM/EXIT	4.2	1	20	0.50		1	2	0.36		1	20	3.0	FIRE ALARM CONTROL PANEL	
LIGHTS-SOUTH EXTERIOR	4.2	1	20		0.50	3	4		0.36	1	20	3.0	TELEPHONE BOARD	
LIGHTS-NORTH EAST/EXTERIOR	4.2	1	20			0.50	5	6		0.36	1	20	3.0	REC-P-ELEC. ROOM
LIGHTS-NORTH WEST EXTERIOR	4.2	1	20	0.50			7	8	0.54	1	20	4.5	REC-P-ROOF	
LIGHTS-RESTROOM EM	4.8	1	20		0.57		9	10		7.63	3	80	63.6	RTU-1
LIGHTS-RESTROOM	3.4	1	20			0.41	11	12		7.63	-	-	63.6	-
SITE LIGHTING	8.3	1	20	1.00			13	14	7.63		-	-	63.6	-
SITE LIGHTING	8.3	1	20		1.00		15	16		7.63	3	80	63.6	RTU-2
LIGHTS-SEATING AREA	4.2	1	20			0.50	17	18		7.63	-	-	63.6	-
LIGHTS-SEATING AREA EM	4.2	1	20	0.50			19	20	7.63		-	-	63.6	-
EF-2	5.8	1	20		0.70		21	22		0.72	1	20	6.0	REC-P - SEATING AREA
EF-1	5.8	1	20			0.70	23	24		0.54	1	20	4.5	REC-P - SEATING AREA
DWH-4	20.8	1	30	2.50			25	26	0.36		1	20	3.0	REC-P - RESTROOM
BUILDING SIGNAGE	10.0	-	-		1.20		27	28		1.50	2	20	14.4	EUH-1
BUILDING SIGNAGE	10.0	-	-			1.20	29	30		1.50	-	-	14.4	-
BUILDING SIGNAGE	10.0	-	-		1.20		31	32	1.50		2	20	14.4	EUH-2
BUILDING SIGNAGE	10.0	-	-			1.20	33	34		1.50	-	-	14.4	-
SPACE	0.0	-	-			0.00	35	36		1.36	-	-	11.3	HAND DRYER
SPACE	0.0	-	-		0.00		37	38	1.36		-	-	11.3	HAND DRYER
(FUTURE) EV PARKING	0.0	2	20			0.00	39	40		0.00	2	20	0.0	(FUTURE) SOLAR
-	0.0	-	-			0.00	41	42		0.00	-	-	0.0	-
COFFEE GRINDER	9.4	1	20	1.13			43	44	0.72		1	20	6.0	SODA FOUNTAIN
TEA BREWER	13.8	1	20		1.66		45	46		0.00	1	20	0.0	SPARE
COFFEE BREWER	32.7	2	50			3.40	47	48		0.00	1	20	0.0	SPARE
-	32.7	-	-		3.40		49	50	0.00		1	20	0.0	SPARE
SODA MACHINE	6.0	1	20		0.72		51	52		0.00	1	20	0.0	SPARE
ICE MACHINE	16.0	1	20			1.92	53	54		0.00	1	20	0.0	SPARE
TOTAL:	AMPS		kVA	MAIN BREAKER		300A	BUS RATING		400A					
BUS A	224.1		30.628	CONDUIT SIZE		SEE ONE-LINE	A.I.C. SYM.		42,000					
BUS B	224.1		26.886	FEEDER SIZE		SEE ONE-LINE	Total Connected Load		236.9 A	85.360	kVA			
BUS C	230.4		27.646	SOURCE			Estimated Demand Load		226.9 A	81.727	kVA			

MFR	SQUARE D	PANEL NAME	A			LOCATION	DUNKIN DONUTS BOH								
TYPE	NQOD					MOUNTING	SURFACE								
BUS	COPPER	SERVICE:	L-L 208		L-N 120	DWG. NO.	E-201, E-601								
* - Denotes GFCI Type Breaker ** - Denotes Shunt Trip Type Breaker															
DESCRIPTION	LOAD AMPS	BREAKER POLE	AMPS	KILOVOLT-AMPS A	B	C	KILOVOLT-AMPS A	B	C	BREAKER POLE	AMPS	LOAD AMPS	DESCRIPTION		
443 - 2-DOOR REACH IN FRIDGE	8.0	1	20	0.96			1	2	1.08		1	20	9.0	445 - 3-DOOR REACH IN FRIDGE	
412 - 30" W ICE MAKER	18.2	2	20		1.89		3	4	2.35		3	30	19.6	WALK-IN FREEZER	
	18.2	-	-			1.89	5	6		2.35	-	-	19.6	CONDENSER AND EVAP.	
WALK IN MISC	10.0	1	20	1.20			7	8	2.35		3	30	19.6		
DMB-1 - DIGITAL MENU BOARD	4.2	1	20		0.50		9	10		0.00	1	20	0.0		
246-1 - 12 BAY HOLDING UNIT	15.0	-	-			1.80	11	12			1.12	1	20	9.3	247-2 32" FRIDGE W/OVERSHE
120F-1 - UNDERCOUNTER FRID	7.0	1	20	0.84		*13	14	1.20			1	20	10.0	563 - POWER BASE	
460 - FUTURE HARDENING	6.0	2	20		0.62		15	16		1.32	1	20	11.0	101G-3 - MULTIHOPPER GRIND	
CABINET	6.0	-	-			0.62	17	18			0.84	1	20	7.0	120F-1 - UNDERCOUNTER FRID
124A TWIN SH BREWER	38.5	2	50	4.00			19	20	0.22		1	20	1.8	101C-3 - DAIRY DISPENSER	
	38.5	-	-		4.00		21	22		3.00	2	40	28.8	96.4 - ESPRESSO MACHINE	
124E - SINGLE SH BREWER	17.1	2	20			1.78	23	24			3.00	-	28.8		
	17.1	-	20	1.78			25	*26	0.84		1	20	7.0	120F-1 - UNDERCOUNTER FRID	
108A-1 - HOT WINTER	21.7	2	30		2.26	27	28		0.64		1	20	5.3	116-1 - BLENDER/ISLAND	
BEVERAGE	21.7	-	-		2.26	29	30			0.24	1	20	2.0	82A - BAKERY DISPLAY CASE	
259 - DISHWASHER	30.5	2	40	3.17		*31	32	0.36			1	20	3.0	20M - BLENDING STATION	
	30.5	-	-		3.17		*33	*34		0.84	1	20	7.0	120F-1 - UNDERCOUNTER FRID	
61-1 - DIPPING CABINET	11.5	1	20			1.38	35	36			1.51	1	20	12.6	15B-E - HOT FUDGE WARMER
61-1 - DIPPING CABINET	11.5	1	20	1.38			37	38	13.41		3	200	111.7	PANEL B	
61-1 - DIPPING CABINET	11.5	1	20		1.38		39	40		19.56	-	-	163.0	-	
1202 WAFFLE CONE BAKER	1.0	1	20			0.12	41	42			10.52	-	87.7	-	
TOTAL:	AMPS		kVA	MAIN BREAKER		400 A	BUS RATING		400 A						
BUS A	273.2		32.782	CONDUIT SIZE		SEE ONE-LINE	A.I.C. SYM.		42,000						
BUS B	346.1		41.527	FEEDER SIZE		SEE ONE-LINE	Total Connected Load		288.0 A	103.746	kVA				
BUS C	245.3		29.437	SOURCE			Estimated Demand Load		231.1 A	83.251	kVA				

MFR	SQUARE D	PANEL NAME	B			LOCATION	DUNKIN DONUTS BOH							
TYPE	NQOD					MOUNTING	SURFACE							
BUS	COPPER	SERVICE:	L-L 208	L-N 120		DWG. NO.	E-401, E-601							
* - Denotes GFCI Type Breaker ** - Denotes Shunt Trip Type Breaker														
DESCRIPTION	LOAD AMPS	BREAKER POLE	AMPS	KILOVOLT-AMPS A	B	C	BREAKER POLE	AMPS	DESCRIPTION					
KITCHEN LIGHTING	4.4	1	20	0.53			1	2	0.86	7.2	SERVICE LINE LIGHTING			
EF-3	2.5	3	15		0.30		3	4	1.40	1	20	11.7	DRIVE THROUGH WINDOW	
-	2.5	-	-		0.30		5	6		1.80	1	20	15.0	DRIVE THRU MISC.
-	2.5	-	-		0.30		7	8	0.36	1	20	3.0	POS STATION DRIVE THRU (IG)	
POS STATION (IG)	3.0	1	20		0.36		9	10	1.20	1	20	10.0	PICKUP COUNTER RECEPTACLE	
POS STATION (IG)	3.0	1	20		0.36		11	12		0.98	1	20	8.2	283-1 - MERCHANDISER
OFFICE RECEPTACLES (IG)	12.0	1	20	1.44			13	14	1.00	1	20	8.3	DRIVE THRU MENU BOARD	
OFFICE RECEPTACLES (IG)	12.0	1	20		1.44		15	16	1.00	1	20	8.3	DRIVE THRU PREVIEW BOARD	
815 - DIGITAL MENU BOARD	10.0	1	20		1.20		17	18		0.50	1	20	4.2	450M - KITCHENAID MIXER
257 - 8 TAP SYSTEM	11.1	1	20	1.33			19	20	0.54	1	20	4.5	68 - ICE CREAM CHEST	
30-1 - SUNDAE STATION	4.5	1	20		0.54		21	**22	2.15		20.7	244A - DUAL LINE TOASTER		
BUILDING SIGNAGE	10.0	1	20		1.20		23	**24	2.15	2	30	20.7	-	
215 - BULLET OVEN W/STONE	30.0	30	3.12			**25	26	0.00		-	-	0.0	RESERVED FOR SHUNT TRIP	
RESERVED FOR SHUNT TRIP	0.0	-	-		3.12	**27	**28	2.03		2	30	19.5	200A - ICED COFFEE BREWER	
215 - BULLET OVEN W/STONE	30.0	2	30	3.12		29	**30			-	-	19.5	-	
RESERVED FOR SHUNT TRIP	0.0	-	-		0.00	31	32	0.00		-	-	0.0	RESERVED FOR SHUNT TRIP	
GRAB AND GO	5.0	1	20	0.60		33	**34	1.20		1	20	10.0	539-B2 - HYDROVECTION OVEN	
BUILDING SIGNAGE	10.0	1	20		1.20		35	36		0.00	1	20	0.0	RESERVED FOR SHUNT TRIP
SPARE	0.0	1	20		0.00		37	38	0.20	1	20	1.7	TIMERCLOCK	
	0.0	1	20		0.00		39	40	0.50	1	20	4.2	AC-1	
	0.0	1	20		0.00		41	42		0.00	1	20	0.0	SPARE
TOTAL:	AMPS		kVA	MAIN BREAKER		200A	BUS RATING		200A					
BUS A	111.7		13.406	CONDUIT SIZE		SEE ONE-LINE	A.I.C. SYM.		42,000					
BUS B	163.0		19.560	FEEDER SIZE		SEE ONE-LINE	Total Connected Load		120.7 A	43.490	kVA			
BUS C	87.7		10.524	SOURCE		A	Estimated Demand Load		118.2 A	42.590	kVA			

MFR	SQUARE-D	PANEL NAME	C	LOCATION	JAMBA JUICE BOH							
TYPE	NQOD			MOUNTING	SURFACE							
BUS	COPPER	SERVICE: L-L 208	L-N 120	DWG. NO.	E-211, E-601							
* - Denotes GFCI Type Breaker ** - Denotes Shunt Trip Type Breaker												
DESCRIPTION	LOAD AMPS	BREAKER POLE	AMPS	A	B	C	KILOVOLT-AMPS	BREAKER POLE	AMPS	LOAD AMPS	DESCRIPTION	
E19 - COUNTERTOP WAREMR	4.2	1	20	0.50		1	2	1.80		1	20	15.0
E14 - ICE MACHINE AND BIN	19.5	1	20		2.34	3	4	0.48		1	20	4.0
E03 - CRATHCO (MINIQUAD)	8.0	1	20		0.96	5	6		0.96	1	20	8.0
E02 CRATHCO (DOUBLE BOWL	8.0	1	20	0.96		7	8	1.08		1	20	9.0
E06 - BLENDER	15.0	1	20		1.80	9	10		1.80	1	20	15.0
E06 - BLENDER	15.0	1	20		1.80	11	12		0.84	1	20	7.0
E06 - BLENDER	15.0	1	20	1.80		13	14	0.70		1	20	5.8
E06 - BLENDER	15.0	1	20		1.80	15	16		1.50	1	20	12.5
E22 - PREP FRIDGE	6.3	1	20		0.76	17	18		0.30	1	20	2.5
MDF RACK	3.3	1	20	0.40		19	20	3.12		2	40	30.0
MDF RACK	3.3	1	20		0.40	21	22		3.12	-	-	30.0
SECURITY ALARM SYSTEM	4.2	1	20		0.50	23	24		1.56	2	15	15.0
OFFICE COMPUTER	2.1	1	20	0.25		25	26	1.56		-	-	15.0
MUSIC SYSTEM	10.0	1	20		1.20	27	28		1.50	1	20	12.5
OFFICE PRINTER/COPIER/FAX	2.1	1	20		0.25	29	30		3.06	2	15	29.4
WALK-IN FREEZER DOOR HTR	6.7	1	20	0.80		31	32	3.06		-	-	29.4
WALKIN FREEZER/COOLER LTR	2.1	1	20		0.25	33	34		0.93	2	15	8.9
T03 - POS/PRINTER	4.2	1	20		0.50	35	36		0.93	-	-	8.9
NARROW SPLIT CASE	6.6	1	20	0.79		37	38	0.72		1	20	6.0
POS MONITOR	1.5	1	20		0.18	39	40		0.20	1	20	1.7
POS MONITOR	1.5	1	20		0.18	41	42		1.20	1	20	10.0
POS MONITOR	1.5	1	30	0.18		43	44	0.00		1	20	0.0
SPARE	0.0	2	20		0.00	45	46	0.00		1	20	0.0
SPARE	0.0	-	-		0.00	47	48		0.00	1	20	0.0
SPARE	0.0	1	20	0.00		49	50	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	51	52	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	53	54		0.00	1	20	0.0
SPARE	0.0	1	20	0.00		55	56	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	57	58	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	59	60		0.00	1	20	0.0
SPARE	0.0	1	20	0.00		61	62	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	63	64	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	65	66		0.00	1	20	0.0
SPARE	0.0	1	20	0.00		67	68	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	69	70	0.00		1	20	0.0
SPARE	0.0	1	20		0.00	71	72		0.00	1	20	0.0
TOTAL: AMPS KVA MAIN BREAKER MLO BUS RATING 200 A												
BUS A	147.7		17.718		CONDUIT SIZE		SEE ONE-LINE	A.I.C. SYM.		10.000		
BUS B	145.8		17.495		FEEDER SIZE		SEE ONE-LINE	Total Connected Load		136.0	A 49.004 KVA	
BUS C	114.9		13.791		SOURCE			Estimated Demand Load		95.4	A 34.376 KVA	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-01-E
Indoor Lighting		(Page 1 of 6)
Project Name: Travel America	Date Prepared: 8/21/2019	

A. General Information

Climate Zone: 14	Conditioned Floor Area: 4749		
Unconditioned Floor Area:			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces	<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored
Project Address: 5621 Outlets at Tejon Parkway, Wheeler Ridge, CA 93203			

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="radio"/>	<input type="radio"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="radio"/>	<input type="radio"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="radio"/>	<input type="radio"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-01-E
Indoor Lighting		(Page 2 of 6)
Project Name: Travel America	Date Prepared: 8/21/2019	

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
	Installed Lighting	Watts		Installed Lighting	Watts
01	NRCC-LTI-01-E, Table H, page 5	+	4333	NRCC-LTI-01-E, Table H, page 5	+
02	Portable Only for Offices	+			
03	Minus Lighting Control Credits	-		Minus Lighting Control Credits	-
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	4333	Adjusted Installed Lighting Power (row 1 minus row 3)	= 0
Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)			Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)		
05	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		5134.4	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2	

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="radio"/>	<input type="radio"/>	NRCI-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-01-E
Indoor Lighting		(Page 3 of 6)
Project Name: Travel America	Date Prepared: 8/21/2019	

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-01-E
Indoor Lighting		(Page 5 of 6)
Project Name: Travel America	Date Prepared: 8/21/2019	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location		Field Inspector ¹	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined		Number Luminaires	Total Installed Watts in this area (#03 x #05)	Primary Function area in which these luminaires are installed	Pass	Fail
			CEC Default from NA8	According to §190.0(c)					
D1	6" Diameter LED Downlight, 0-10V Dimming	26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	31	806	Kitchen, Food Prep	<input type="radio"/>	<input type="radio"/>
P1	Track Mounted Flood Light, 30K Color temp	25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	125	Kitchen, Food Prep	<input type="radio"/>	<input type="radio"/>
P2	Caged LED Pendant, Polished Nickel	150	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	600	Kitchen, Food Prep	<input type="radio"/>	<input type="radio"/>
R1	2'x2' LED Troffer, 0-10V Dimming	41	<input type="checkbox"/>	<input checked="" type="checkbox"/>	57	2337	Kitchen, Food Prep, Dining, Restroom	<input type="radio"/>	<input type="radio"/>
R4	LED Direct Linear Fixture	377	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	377	Kitchen, Food Prep	<input type="radio"/>	<input type="radio"/>
W1	LED Wall Wash, 0-10V Dimming	22	<input type="checkbox"/>	<input type="checkbox"/>	4	88	Restroom	<input type="radio"/>	<input type="radio"/>
			<input type="checkbox"/>	<input type="checkbox"/>		0		<input type="radio"/>	<input type="radio"/>
			<input type="checkbox"/>	<input type="checkbox"/>		0		<input type="radio"/>	<input type="radio"/>
			<input type="checkbox"/>	<input type="checkbox"/>		0		<input type="radio"/>	<input type="radio"/>
INSTALLED WATTS PAGE TOTAL:						4333	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016



DS ARCHITECTURE

Kent, Ohio Cleveland, Ohio
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TravelCenters of America LLC
Tejon TravelCenter of America

5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description:
ISSUED FOR PERMIT
Revision Schedule
DATE DESCRIPTION

Project #: 19027
Issue Date: 08/21/2019

E7.03

Title 24 Compliance

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-01-E
(Page 6 of 6)

Project Name: Travel America Date Prepared: 8/21/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sean Johnson Documentation Author Signature:

Company: Osborn Engineering Signature Date: 8/21/2019

Address: 1100 Superior Ave Suite 300 CEA Certification Identification (if applicable):

City/State/Zip: Cleveland, OH 44114 Phone: 216-861-2020

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Sean Johnson Responsible Designer Signature:

Company: Osborn Engineering Date Signed: 8/21/2019

Address: 1100 Superior Ave Suite 300 License: 18313

City/State/Zip: Cleveland, OH 44114 Phone: 216-861-2020

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-02-E
(Page 1 of 3)

Project Name: Travel America Date Prepared: 8/21/2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="radio"/>	<input type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
<input type="radio"/>	<input checked="" type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input type="radio"/>	<input checked="" type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-02-E
(Page 2 of 3)

Project Name: Travel America Date Prepared: 8/21/2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

☒ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Standards Complying With ¹ (✓ all that apply, or leave empty if Exempted)										PAF Credit Calculation ²			✓ If Acceptance Test Required	Field Inspector	
										Control Credit (11 x 12)	PAF	Waits of Controlled Lighting			
Lighting Control Schedule															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.1(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$140.6(a)2	\$140.6(d)					Pass	Fail
Dunkin Donuts Kitchen	Time Clock, manual dimmer	13	•	•	•							0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Jamba Juice Kitchen	Time Clock, manual dimmer	9	•	•	•							0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Charley's Kitchen	Time Clock, manual dimmer	11	•	•	•							0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Restroom	Occupancy sensor, manual dimmer	10	•	•	•							0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Dinning Area	Lighting Control Panel, manual dimmer	14	•	•	•							0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
												0	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Control Credit PAGE TOTAL (Sum of Column 13):													0		
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):															
													Enter Control Credit total into NRCC-LTI-01-E; Page 1.		
1. \$130.1(a) = Manual area controls; \$130.1(b) = Multi level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Automatic Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) = Additional lighting controls installed to earn a PAF; \$140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.															
2. Check Table 140.6-A for correct PAF. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.															

1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Automatic Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct PAF. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 04/17)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-02-E
(Page 3 of 3)

Project Name: Travel America Date Prepared: 8/21/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sean Johnson Documentation Author Signature:

Company: Osborn Engineering Signature Date: 8/21/2019

Address: 1100 Superior Ave Suite 300 CEA Certification Identification (if applicable):

City/State/Zip: Cleveland, OH 44114 Phone: 216-861-2020

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Sean Johnson Responsible Designer Signature:

Company: Osborn Engineering Date Signed: 8/21/2019

Address: 1100 Superior Ave Suite 300 License: 18313

City/State/Zip: Cleveland, OH 44114 Phone: 216-861-2020

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2017



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TravelCenters of America LLC
Tejon TravelCenter of America
5621 Outlets at Tejon Parkway
Wheeler Ridge, CA 93203

Issue Description:
ISSUED FOR PERMIT

Revision Schedule
DATE DESCRIPTION

Project #: 19027
Issue Date: 08/21/2019

E7.04

Title 24 Compliance

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE <small>CEC/NRCC-LTI-03-E (Revised 04/16)</small>		 CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance		NRCC-LTI-03-E (Page 1 of 4)	
Project Name: <u>Travel America</u>	Date Prepared: <u>08/21/2019</u>		

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ **CONDITIONED spaces** ☐ **UNCONDITIONED spaces**

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
 If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
 If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		5134.4
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	5134.4

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft ²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2.	4749
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	4749

For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
 April 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE <small>(See NRCC-LTI-03-E (Revised 04/18))</small>		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance		NRCC-LTI-03-E (Page 2 of 4)	
Project Name: <u>Travel America</u>		Date Prepared: <u>08/21/2019</u>	

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C - 2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.

- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02	X	03	=	04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft ²		AREA (ft ²)		ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Dunkin Donuts Kitchen	Kitchen, Food Prep Area	1.2		1179		1414.8
Jamba Juice Kitchen	Kitchen, Food Prep Area	1.2		662		794.4
Charley's Kitchen	Kitchen, Food Prep Area	1.2		838		1005.6
Dunkin Donuts Office	Office Area < 250 sqft	1.0		35		35
Jamba Juice Office	Office Area < 250 sqft	1.0		35		35
Charley's Office	Office Area < 250 sqft	1.0		35		35
Restroom	Corridor, Restroom, Stair, and Support Areas	0.6		375		225
Dinning Area	Dinning Area	1.0		1590		1590
						0
						0
						0
						0
						0
						0
						0
						0
						0
TOTALS				4749		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						5134.4
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE <small>CEC-NRCC-LTI-03-E (Revised 04-10)</small>		 CALIFORNIA ENERGY COMMISSION NRCC-LTI-03-E (Page 4 of 4)
CERTIFICATE OF COMPLIANCE		
Certificate of Compliance - Indoor Lighting Power Allowance		
Project Name: Travel America	Date Prepared: 08/21/2019	

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1. I certify that this Certificate of Compliance documentation is accurate and complete.	
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Company: Osborn Engineering	Signature Date: 8/21/2019
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Company: Osborn Engineering	Date Signed: 8/21/2019
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

DS

DS ARCHITECTURE

Kent, Ohio Cleveland, Ohio

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REGISTERED PROFESSIONAL ENGINEER
SEAN M. JOHNSON
No. 18753
EXP. 12/31/19
ELECTRICAL
STATE OF CALIFORNIA

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TravelCenters of America LLC

Tejon TravelCenter of America

55621 Outlets at Tejon Parkway
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