ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.
1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT
A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
B. VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE AND AMPERE RATING OF LOAD.
C. THE DRAWINGS GENERALLY INDICATES THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.
2.02 RACEWAYS
A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS.
B. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
C. ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE (IN WET AREAS ONLY) WITH INSULATED THROATS.
D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.
2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED.
2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/THHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM-NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM; GROUND - GREEN.
2.05 ADDED PANELS TO BE PANELBOARDS - LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
2.06 **SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D" OR CUTLER HAMMER OR SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.**
2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL.
2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENTLY COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLED OUTSIDE AS NEEDED.
2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
2.17 WIRING DEVICES
A. HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS OR PER ARCHITECT. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
B. TOGGLE SWITCHES: SINGLE POLE - HUBBELL 1221- 20A, 120/277V, THREE WAY - HUBBELL 1223- 20A, 120/277V, FOUR WAY - HUBBELL 1224- 20A, 120/277V.
C. RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR COMPARABLE.
D. GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION.
2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
2.19 NOT USED.
2.20 LIGHTING FIXTURES
A. ALL INTERIOR / BUILDING MOUNTED LIGHTING PROVIDED BY PX AND INSTALLED BY E.C.
B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY E.C.

PART 3 - EXECUTION

3.01 GENERAL INSTALLATION
A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER.
B. INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
C. LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
D. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.
3.02 RACEWAYS
A. INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND OTHER SYSTEMS.
B. UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
C. INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
D. IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
E. INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED TO MAINTAIN AN APPROVED INSTALLATION.
F. NOT USED.
H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
3.03 GALVANIZED RIGID CONDUIT (GRC): ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED. CONDUIT, ELBOWS, AND STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED.
3.04 INTERMEDIATE METAL CONDUIT (IMC): IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT, WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
3.05 ELECTRIC METALLIC TUBING (EMT): EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN.
3.06 FLEXIBLE METAL CONDUIT (FLEX): USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION, AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5. ALL UNDERGROUND BENDS SHALL BE GRC.
3.08 OUTLET, PULL AND JUNCTION BOXES
A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
B. WALL SWITCHES: 44".
C. CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT BOTTOM.
D. OTHER OUTLET TYPES: REFER TO ELECTRICAL SYMBOL LIST ON THIS SHEET.
3.09 CONDUCTORS (COPPER ONLY)
A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC.
B. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
C. DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN, DRY, AND FREE OF ALL FOREIGN MATERIALS. LUBRICATE AS REQUIRED.
D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.
3.10 LIGHTING FIXTURES
A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS. ALL GLASS, PLASTIC AND OTHER COMPONENTS SHALL BE UNSCRATCHED AND UNBROKEN.
B. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO ADDITIONAL COST AS DIRECTED.
C. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO LIGHT LEAKS EXIST.
D. FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL MEET UL APPROVAL FOR THIS CONDITION AND BE PLAINLY MARKED AS SUCH.
3.11 GROUNDING
A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING CONDUCTOR.
C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO ENCLOSURE, SIZE AS PER NEC.
3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK. PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS.
3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT.
3.14 FINAL INSPECTION: TEST SYSTEM FOR SHORTS AND OPENS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETELY, TEST FOR INSULATION RESISTANCE. RESISTANCE LOWER THAN OUTLINED IN THE NEC, MANUFACTURER'S DATA, ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.
3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN, PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND SHALL INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

ELECTRICAL SPECIFICATIONS | 3
NOT TO SCALE | E-000

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
3. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
4. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE EXACT LOCATION OF EQUIPMENT OR OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING TYPE.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING SUBSTITUTED.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX EXTENSION RING (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC ARTICLE 310 AND ELSEWEHERE IN CODE.
17. ALL LIGHTING FIXTURES PROVIDED BY PANDA EXPRESS INSTALLED BY GC UNLESS NOTED OTHERWISE.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

FIXED EQUIPMENT ON GRADE: OPERATING WEIGHT	33% OF
FIXED EQUIPMENT ON STRUCTURE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION ON STRUCTURE: OPERATING WEIGHT	75% OF

FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES.
SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE.
CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

GENERAL NOTES | 2
NOT TO SCALE | E-000

NOTICE
THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR INDICATES THAT HE OR SHE HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE OUTLETS.

IF PROVIDED UNDER SLAB ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW FINISHED GRADE.

ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

POWER DISTRIBUTION

- S_M SINGLE-POLE SWITCH, MANUAL MOTOR STARTER
- J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)
- DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.
- BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.
- BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS
- INDICATES EXTERIOR UNDERGROUND WIRE RUNS.

LIGHTING & LIGHTING CONTROLS

- L1 LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.
- $ SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
- a$D LEVITON Renoir II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V
- OS$ OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.
- DS LEVITON PROVOLT 05C20-MDW DIMMING DAYLIGHT SENSOR FOR SIDELIT DAYLIGHTING ZONES. LOCATE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL CONTROLS SHALL COMPLY WITH LOCAL ENERGY CODE REQUIREMENTS. PROVIDE LOCAL MANUAL SWITCH AS SHOWN IN THE LIGHTING PLAN FOR ON / OFF CONTROL
- 2 INTERIOR LIGHTING SHUT DOWN OVERRIDE. 20 AMP 60-MINUTE INDOOR IN-WALL SPRING WOUND COUNTDOWN TIMER, WHITE BY INTERMATIC.

ABBREVIATIONS

A	AMPERES	M.C.B.	MAIN CIRCUIT BREAKER
AL	ALUMINUM	M.L.O.	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MTD.	MOUNTED
A.F.G.	ABOVE FINISHED GRADE	P.	POLE
C.	CONDUIT	SW.	SWITCH
C/B	CIRCUIT BREAKER	T.M.B.	TELEPHONE MOUNTING BOARD
CU.	COPPER	TYP.	TYPICAL
DISC.	DISCONNECT	U.N.O.	UNLESS NOTED OTHERWISE
F.	FUSE	V.	VOLTS
GFI	GROUND FAULT CURRENT INTERRUPTER	W.	WIRE
GND.	GROUND	W.P.	WEATHERPROOF
H.P.	HORSE POWER	XFMR	TRANSFORMER
k	1000	Ø	PHASE
E.C.	ELECTRICAL CONTRACTOR		
G.C.	GENERAL CONTRACTOR		

RECEPTACLES & COMMUNICATIONS OUTLETS

- DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- ISOLATED GROUND SIMPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'W' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.
- DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.
- SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
- ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
- ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A.,125V.
- S SPEAKER

FIRE ALARM

- MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.
- XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- HORN COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- FACP FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- FAAP FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- PHOTO ELECTRIC TYPE SMOKE DETECTOR.
- DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
- RATE OF RISE HEAT DETECTOR.

ELECTRICAL SYMBOLS | 1
NOT TO SCALE | E-000

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

2	SOLUTION F.2	09.30.21

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
ISSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 690 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS
TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-000

ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

01-11-19

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	10	LSI FIXTURE: SFP24-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1B	L1B	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 2', 120V BAKED-ON WHITE ENAMEL FINISH.	1	LSI FIXTURE: ESFP22-LED-FS-UNV-DIM (3)	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1C	L1C	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 1' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	2	LSI FIXTURE: SFP14-LED-FS-UNV-DIM	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED ON WHITE ENAMEL FINISH.	4	LSI FIXTURE: SFP24-LED-FS-UNV-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4HO	L4HO	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	4	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A	L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B	L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	3	KASON FIXTURE: # 1810LX4000	FURNISHED BY WIC VENDOR, G.R.E. , INSTALLED BY GC
L19	L19	DOWN LIGHT, RECESSED IN CEILING	45	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	FURNISHED BY OWNER, INSTALLED BY GC
L19EM	L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING	6	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20	L20W	3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING. "W" SHALL DESIGNATE WHITE TRIM USED FOR MENU BD. SOFFIT	10	LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 ° BEAM	FURNISHED BY OWNER, INSTALLED BY GC
(3) L20	L20B	3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING. "B" SHALL DESIGNATE BLACK TRIM USED FOR DINING ROOM CEILING GRID	5	LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 ° BEAM	FURNISHED BY OWNER, INSTALLED BY GC
L30	L30	WHITE LED AT SERVICE COUNTER SOFFIT & DINING ROOM PARTIAL HEIGHT WALL	50 L.F.	LUXEM BRIGHT FIXTURE: BLAZE LED	FURNISHED BY OWNER, INSTALLED BY GC
L32	L32	WHITE LED AT MURAL LIGHT COVE	60 L.F.	NOVA FLEX - PRO SERIES FIXTURE: BENDABLE 3916	FURNISHED BY OWNER, INSTALLED BY GC
(3) L45	L45	12" DIA. DECORATIVE MORILL PENDANT LF INCANDESCENT	3	LBL LIGHTING, MODEL # 6227801-839 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC
L100	L100	MICRO INVERTER	1	ISOLITE #IMI 125	FURNISHED BY OWNER, INSTALLED BY GC
L40	L40C-R	17.3" DIA. RED CUPOLA PENDANT	6	HI-LITE, MODEL #H-VLPDM3-RDMT	FURNISHED BY OWNER, INSTALLED BY GC
	S	SPEAKER		-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

EXTERIOR LIGHTING					
L40	L40	LINEAR LIGHT AT EXTERIOR STORAGE ROOM	1	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	FURNISHED BY OWNER, INSTALLED BY GC
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	HOWARD: VL305 30W LED, BRONZE	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86		NAVILITE EMERGENCY LIGHT	2	EXITRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86EM		EXTERIOR RECESS EMERGENCY LIGHT	1	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L90		DECORATIVE LED WALL SCONCE	2	HINKLEY LIGHTING, ATLANTIS; BRONZE; 1649BZ-LED	AT PORTAL OF ENTRY DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L92		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED	OVER DRIVE THRU AREA SERVICE DOOR FURNISHED BY OWNER, INSTALLED BY GC
L97		LED MOTION SECURITY FLOODLIGHT	2	LITHONIA LIGHTING OLF 2RH 40K 120V MO BZ	INTERIOR LIGHT SENSOR TO BE WALL MOUNTED AT +142" FURNISHED BY OWNER, INSTALLED BY GC
L91		DECORATIVE LED WALL SCONCE	4	HINKLEY LIGHTING, SILO; BRONZE; 13594AZ-LL; LED	ALONG REAR EIFS BAND FURNISHED BY OWNER, INSTALLED BY GC

LIGHTING FIXTURE SCHEDULE | 2
NOT TO SCALE | E-001

EQUIPMENT SCHEDULE

01-11-19

PLUMBING	ELECTRICAL	DESCRIPTION
FS INDIRECT CONNECTION TO FLOOR SINK	D DIRECT CONNECTION	O OWNER(PANDA EXPRESS, INC.)
D DIRECT CONNECTION	C CONVENIENT OUTLET	GC GENERAL CONTRACTOR
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)	FSO FLOOR STUB OUT	EC ELECTRICAL CONTRACTOR
	DC DROPPED CORD	KEC KITCHEN EQUIPMENT COMPANY

SUPPLY BY	GAS K BTU	GAS R.I.H.	GAS SIZE	WASTE TYPE	WASTE SIZE	COLD WATER R.I.H.	COLD WATER SIZE	HOT WATER R.I.H.	HOT WATER SIZE	CONNECTION R.I.H.	CONNECTION TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (# x H)	MANUFACTURE	MODEL #	EQUIPMENT	NO.
																				SERVING AREA EQUIPMENT	
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER, SERVICE	1B
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O										REF. ELEC.	D	475W	1		120	3 HEATING ELEMENTS	42.375" X 4.25" X 2.375"	GENERAL		43" RADIANT TOP HEATER	1S2b1
O											D	625W	1		120	4 HEATING ELEMENTS	55.375" X 4.25" X 2.625"	GENERAL		56" RADIANT TOP HEATER (2)	1S2b2
O											D	475W	1		120	3 HEATING ELEMENTS	42 1/8"x4.25"x2 5/8"	GENERAL		43" RADIANT TOP HEATER (2)	1S2-S1d
O											D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER	2Q
O											C	650W	1		120	INDUCTION WARMER	15 3/4" DIA	I/O CONTROLS CORP	ABC-065-14	INDUCTION WELL - 17QT	3F
O											C	650W	1		120	INDUCTION WARMER	12 1/8" DIA	I/O CONTROLS CORP	ABC-065-10	INDUCTION WELL - 11QT	3G
O				FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O										66"	C	7.2A	1		120	ON S/S SHELF	15"x11"X16"	**WELBILT**	**16-2172**	BOOSTER	4B
O																	40"x18"	**WELBILT**	**15-2903-IP**	SODA RACK	4C
O																	#22"	ESPRIQAS	PER MFG	CO2 TANK	4D
O																		CO2Meter.com	RAD-0102-6	CO2 MONITOR & DISPLAY	4D-S1
O						96"	1/2"									WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	4F
O				FS	1/2"												34"x17"x6 1/2"	KEC	CUSTOM	36" COLD PAN	5C
O																	SEE PLAN	KEC	CUSTOM	S/S COUNTER WITH SINK	6B
O										24"							SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER - DRIVE THRU	6F
O										24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER- DT	9B
O										24"	C	14.8A	1		120	NEMA 5 PLUG	11" X 22" X 34"	BUNN	TB3	ICED TEA BREWER (2)	9D
O				FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	----	22" X 14" X 26.5"	MANITOWOC	**ID-0894YC**	800 LBS. ICE MACHINE	10J
O										16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	**CVD-0675**	REMOTE CONDENSER	10J-S1
O																					
O													**1**		**----**	**ABOVE ICE MACHINE**	**24"X 17.5"X 21.5"**	**MANITOWOC**	**D420**	STORAGE BIN	10L-S1
																				KITCHEN EQUIPMENT	
O	450	10"	1-1/2"	FS	2"	10"	1/2"									SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"									SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	122 EA.	14"	1 1/2"							24"	C	–	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	MJ45-FPP345G	FRYER	21B
O	54	10"	3/4"														24"X31.5"X15.25"	VULCAN	MSA24-C0100P	24" GAS GRIDDLE	23E
GRILL NEMA PLUG/CONNECTOR O										36"	C	17.3A	1		208		10.4"X22.9"	VULCAN	VMCS-101	(2) ELECTRIC GRIDDLE TOP	
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 32"	3/4"														24"x19"x17"	PANTIN	GC-6100(N)	RICE COOKER	25A
O										24"	C	9A	1	1/2	115	NEMA 5-15P	60"X33"X36"	RANDELL	9205F-290	60" WORKTOP FREEZER	30L
O				FS	3/4"					130"	D	2.0AMPS	1	1.5	120/208		SEE PLAN	**KEC**	CUSTOM	WALK-IN COOLER UNIT	31
O											D	3120w/2	1	1.5	208		SEE PLAN	**KEC**	CUSTOM	WALK-IN COOLER COND.	31-S
O				FS	3/4"					130"	D	FREEZER FAN COIL UNIT POWERED FROM CONDENSER UNIT					SEE PLAN	**KEC**	CUSTOM	WALK-IN FREEZER	32
O											D	10.0A	1	1.5	208		SEE PLAN	**KEC**	CUSTOM	WALK-IN FREEZER COND.	32-S1
O											D/ID	500W	1		120		SEE PLAN	**KEC**	CUSTOM	W.I.F. LTG. DOOR HEATER	32-S7
O										24"	C	15A	1	1/2	120	SELF CONTAINED	84"x33"x35"	RANDELL	9050K-7MPR2-NSB	84" REF. PREP. TABLE	34O
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48"x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O				FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O				FS						48"	C	1.52 KW	1	2	208		28"x33"x82"	ELECTROLUX	727655	THAWING CABINET	40T (3)
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O										18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	**PANDA WAREHOUSE**	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O										18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	**PANDA WAREHOUSE**	CUSTOM (NSF)	16"D S.S. WALL MTD. SHELF	43B
O										4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O										UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 18"D WIRE SHELVES	44A-U
O										4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O										UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 24"D WIRE SHELVES	44C-U
O																	24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																	22"x 20" x 34.06"	KEC	CUSTOM	RICE WARMER STAND	46B
O																	36 1/2"x 33" x 26"	KEC	CUSTOM	S.S. GRILL STAND	46K
O																	18"x 33" x 30"	KEC	CUSTOM	STAND	46N
O										50"	C	10A	1	1	120		9 15/16"x19-11/16"x19-3/4"	ELECTROLUX	DITO-TRS24	FOOD PROCESSOR	53
O				FS	7/8"	76"	3/4"	14"	3/4"	24"	C	53A	3	4	208		32"x37"x68"	HOBART	PW10SER	DISHWASHER (3)	70D
O				FS													14"x14"x21"	HOBART	WS-40	WATER SOFTENER	70D1
																				SMALL EQUIPMENT	
O					2"	24"	1/2"	24"	1/2"							W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O										24"	C	105W	1		120	ON S.S. COUNTER	17" ø	WELBON	WRS-1088BS	RICE WARMER	54A
O										84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"X13 5/8"X22 9/16"	SHARP	R-CD1800M	MICROWAVE	55A
BY G.C.																AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O																	SEE DETAIL	SAN-JAMAR	SANJT7500TBK	PAPER TOWEL DISPENSER	60D
O																WALL MOUNT	12"x20"x77"	GSW	5-DOOR	LOCKER (2)	61B
O																	20"X20"X23"	**TIDEL**	**CUSTOM**	SMART SAFE	62B
																				POS EQUIPMENT	
O																SEE ELEV. ON E-200	48" X 28" X 42"	KEC	CUSTOM	MANAGER STATION	49A
O										REF ELEV	C	100W	1		120	SEE DETAIL		**DELL OPTIPLEX**	**Xe2**	COMPUTER	83A
O										REF ELEV	C	50W	1		120	SEE PLAN		**BROTHER**	**MFC-LC2700DW**	POS PRINTERS	86A
O										REF ELEV	C	50W	1		120			**BROTHER**	**MFC-LC2700DW**	FAX	87
										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
O																					
																				MEP EQUIPMENT	
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O										90"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8a
O										90"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	36" X 10 5/8"	MARS	STD236-1U	D.T. DOOR AIR CURTAIN	M8c (3)
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	25"x 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"x 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-4860E	DT WINDOW	M10
BY G.C.					3"	36"	–	36"	–		D					FLOOR TYPE	24" X 24" X 13"	C.S.N. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.										84"	C	8A	1		120	SEE PLUMBING DWG	39" X 29.75" X 13"	RINNAI	MTO-00247	GAS TANKLESS WATER HEATER	P3 (2)
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O										REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O										REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O										98"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
O										REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
BY G.C.																SEE ELEC. DWG				ELECTRICAL PANEL	E7
																				SIGNAGE	
O																	REF. INT. ELEV'S	LSI	CUSTOM	MENU BOARD	D2b
O																BF-POWER COAT "OF125 SILVER"		FAD	–	COMMUNITY BOARD	D3b
O										REF ELEV	C	130W	1		120	DEDICATED CIRCUIT	48.9" X 28.1" X 1.3"	LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B

EQUIPMENT SCHEDULE | 1
NOT TO SCALE | E-001

PANDA EXPRESS CHINESE KITCHEN

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

2	SOLUTION F.2	09.30.21
3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS
TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-001
ELECTRICAL SCHEDULES

ISSUE FOR PERMIT 11-02-21

TRUE WARM & WELCOME 2300 R6

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 3/E-200.
4. SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
5. ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
6. REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO LIGHTING SWITCHBANK SCHEDULE, SHEET 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
9. BUILDING SIGNAGE/LOGO DEDICATED/PROPOSED W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE PRIOR TO ROUGH-IN. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. NOT USED.
12. NOT USED.
13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
14. PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB.
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH GROUND FAULT CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 6/E-200. ROUTE HOMERUN THROUGH CONTRACTOR INTERFACED WITH THE HOOD FIRE SUPPRESSION SYSTEM. REFERENCE 13/E-400 FOR ADDITIONAL INFORMATION.
19. SIMPLEX RECEPTACLE TO BE CONNECTED TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL. CONTRACTOR TO PROVIDE PIGTAIL FROM CIRCULATION PUMP.
20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
21. ELECTRIC GRIDDLE '23E': FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT. REFER TO 4/E-200.
22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. SEE TICKET PRINTER ELEVATIONS, 7/E-200.
24. PROVIDE WATERPROOFING, COVER, IN-USE RED DOT (#CKSUV).
25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
26. SEE DRINK STATION ELEVATIONS, 5/E-200.
27. SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
28. SEE DEVICE / RECEPTACLE SCHEDULE 3/E400.
29. SEE DINING ROOM MONITOR ELEVATION, DETAIL 8/E-200.
30. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRING FROM CLOSEST LANDSCAPE AREA, THROUGH WALL UP TO EMPTY FLUSH MOUNTED JUNCTION BOX @ 54" A.F.F. (FOR IRRIGATION CONTROLS). CLOSE OFF CONDUIT IN LANDSCAPE AREA WITH REMOVABLE CAP. UTILIZE WP CIRCUIT A-53 NEAR ENTRY POINT.
31. REFER TO 9/E-200 FOR LOCATION/INSTALLATION OF C02 DEVICE.
32. SEE SWITCH BANK ELEVATION , DETAIL 7/E-200.
33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK SIMPLEX OUTLET. TYP OF ALL LOCATIONS.
34. SEE SECURITY KEY PAD ELEVATION 1/E200.
35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
36. PANDA EXPRESS TO PROVIDE C02 MONITOR. E.C. TO MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
37. PROVIDE IN-GRADE QUAZITE 8"X8" PC STYLE POLYMER CONCRETE BOX OR EQUAL FOR UNDERGROUND CABLE REQUIRED FOR THE STORE. PART NO. PC081XXXXX OR SIMILAR. REFER TO ELECTRICAL SITE PLAN 1/E105.
38. PROVIDE 1" CONDUIT FOR CABLE DEDICATED FOR ENTIRE STORE FROM IN-GRADE 8X8 QUAZITE BOX TO EXTERIOR CLOSET 6X6 FLUSH MOUNTED JUNCTION BOX. TERMINATE INTERIOR ABOVE CEILING.
39. PROVIDE FLUSH MOUNTED NEMA 1 6X6 JUNCTION/PULL BOX AT +48" - HUBBELL OR EQUAL. ROUTE CABLE FROM EXTERIOR 6X6 IN 1" CONDUIT THROUGH BUILDING. TERMINATE INTERIOR ABOVE CEILING.
40. PROVIDE A 1" CONDUIT FOR CIRCUIT 'A' 69 FOR POWER SUPPLY TO THE DRIVE THRU HOT WELL CABINET. PROVIDE A ½" CONDUIT FROM THE THIS LOCATION TO ABOVE CEILING NEAR THE MANAGER CABINET FOR LOW VOLTAGE WIRING.
41. FIRE SUPPRESSION SHUTDOWN CONTACTOR LOCATED ABOVE CEILING , REFER TO 13/E-400.
42. ELECTRICIAN TO WALL MOUNT A NEMA ELECTRICAL DISCONNECT BOX. ELECTRICIAN TO SUPPLY A WIRE WHIP FROM BOX TO MACHINE, FINAL CONNECTIONS BY HOBART SERVICE.
43. PROVIDE J-BOX FOR DOOR RELEASE BUTTON.

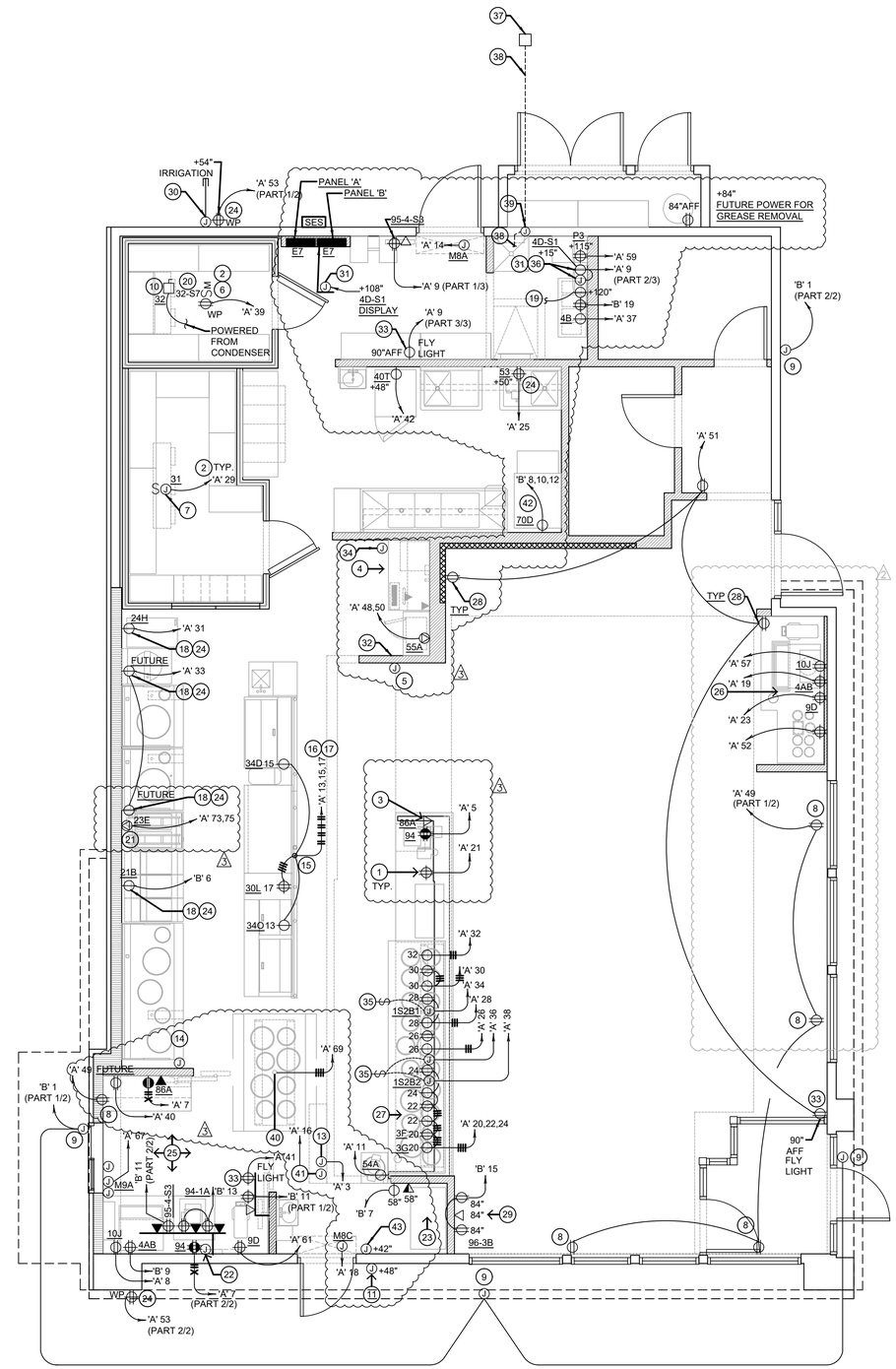
POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100

- VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2017 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2017 NEC 210.4(B).
- TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
- ALL UNDERGROUND CONDUIT SHALL BE 12" BELOW F.F.

POWER PLAN GENERAL NOTES 2

NOT TO SCALE E-100



ALL 120 VOLT, 20 AMP RECEPTACLES LOCATED UNDER COUNTERS WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

POWER FLOOR PLAN 1

Scale: 1/4"=1'-0" E-100

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

2	SOLUTION F.2 09.30.21	
3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-100

POWER FLOOR PLAN

ISSUE FOR PERMIT 11-02-21

- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE INSTALLATION.
- FIXTURES THAT ARE TO BE ROUTED VIA TIMECLOCKS ARE SHOWN ON DETAIL 11/E400. SEQUENCE OF OPERATION: TIMECLOCKS WIRED FIRST FOR DESIGNATED CONTROL. SWITCHES ARE SERIES WIRED WITH THE CONTACTORS. UTILIZE DIGITAL OVERRIDE TIMER SWITCH (DOTS) TO OVER-RIDE THE TIMECLOCKS FOR CLEANING AND AFTER HOURS AS NEEDED. SEE DETAIL 11/E400
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, 4/E400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT LENGTHS AND FINAL LOCATIONS.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.

LIGHTING GENERAL NOTES 2

NOT TO SCALE E-101

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
5. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +128". REFER TO 8&9/A-402 FOR MORE INFORMATION.
6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.
8. NOT USED.
9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED TO BULKHEAD. RE: 9/E200.
11. LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.
12. DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +150"
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR THE BZ-150 UNIVERSAL POWER PACK REQUIRED FOR EXTERIOR MOTION CONTROL LED FIXTURES. PROVIDE LOW VOLTAGE CONNECTIONS AS REQUIRED TO LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR SO THAT WHEN STORE OPERATIONS ARE OFF THIS EXTERIOR SECURITY LIGHT IS ACTIVATED BY EXTERIOR MOTION ONLY. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
14. PROVIDE WALL MOUNTED JUNCTION BOX AT +142" FOR INSTALLATION. INSTALL LIGHTSAVER LS-102 SWITCHING PHOTOSENSOR FOR EXTERIOR MOTION CONTROL SECURITY FIXTURES TYP OF 2 LOCATIONS. CONTROL TIMES OF CONTROL SO THAT WHEN STORE OPERATIONS ARE OFF INTERIOR LIGHTS GO OFF AND THE EXTERIOR MOTION LIGHTS ARE ACTIVATED WITH ANY MOTION DETECTED AFTER STORE HOURS. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR WIRING DIAGRAM. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
15. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO SCHEDULE, SHEET 4/E-101, FOR MORE INFORMATION.
16. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
17. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO WIRING NOTES 6/E-400 FOR ADDITIONAL INFORMATION.

LIGHTING KEYED NOTES 3

NOT TO SCALE E-101

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E400.

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPERATE/INDIVIDUAL BOXES FOR EACH SWITCH

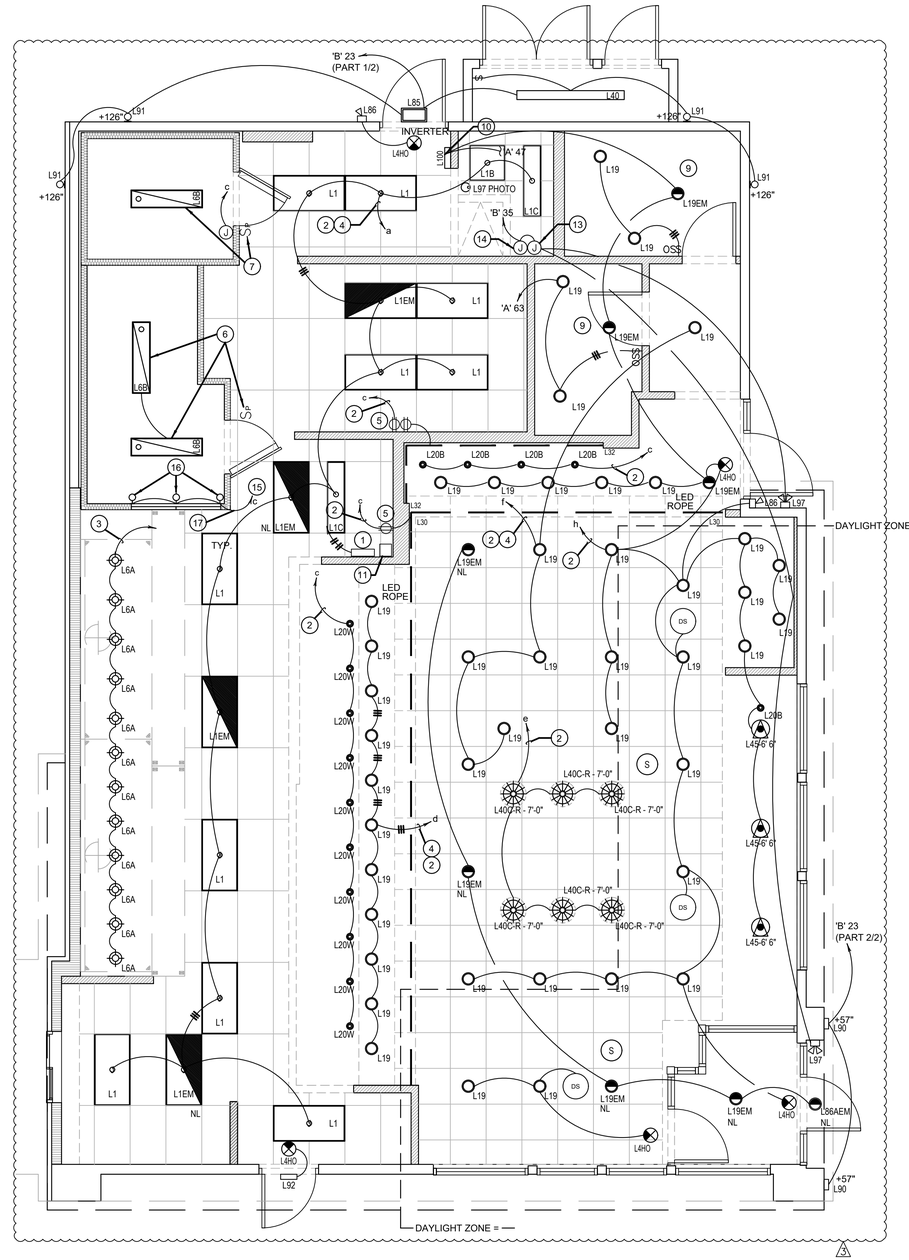
(a)	(b)	(c)	(d)	(e)
$	$	$	$	$
BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS
(f)	(g)	(h)	(i)	(j) 60:00
$	$	$	$	
INTERIOR DINING	BEV. COUNTER	DAYLIGHT HARVEST	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

SWITCHBANK SCHEDULE 'A'

TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'A' 45	530 VA
b	TOGGLE SWITCH	SHOW WINDOW RECEP	'A' 49	720 VA
c	TOGGLE SWITCH	WALK-INS, MENU, LED ACCENTS	'A' 1	275 VA
d	TOGGLE SWITCH	SERVING LINE SOFFIT	'A' 45	140 VA
e	TOGGLE SWITCH	DINING PENDANTS	'A' 47	24 VA
f	TOGGLE SWITCH	INTERIOR DINING	'A' 47	118 VA
g	TOGGLE SWITCH	BEVERAGE COUNTER	'A' 47	16 VA
h	TOGGLE SWITCH	DAYLIGHT HARVESTING ZONE	'A' 47	219 VA
i	SPARE			
j	COUNTDOWN TIMER	INTERIOR LIGHTING	'A' 47	118 VA

INTERIOR / EXTERIOR LTG CONTACTORS SCHEDULE 4

NOT TO SCALE E-101



LIGHTING FLOOR PLAN 1

Scale: 1/4"=1'-0" E-101

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

2	SOLUTION F.2 09.30.21	
3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
1-8-22
PROFESSIONAL ENGINEER

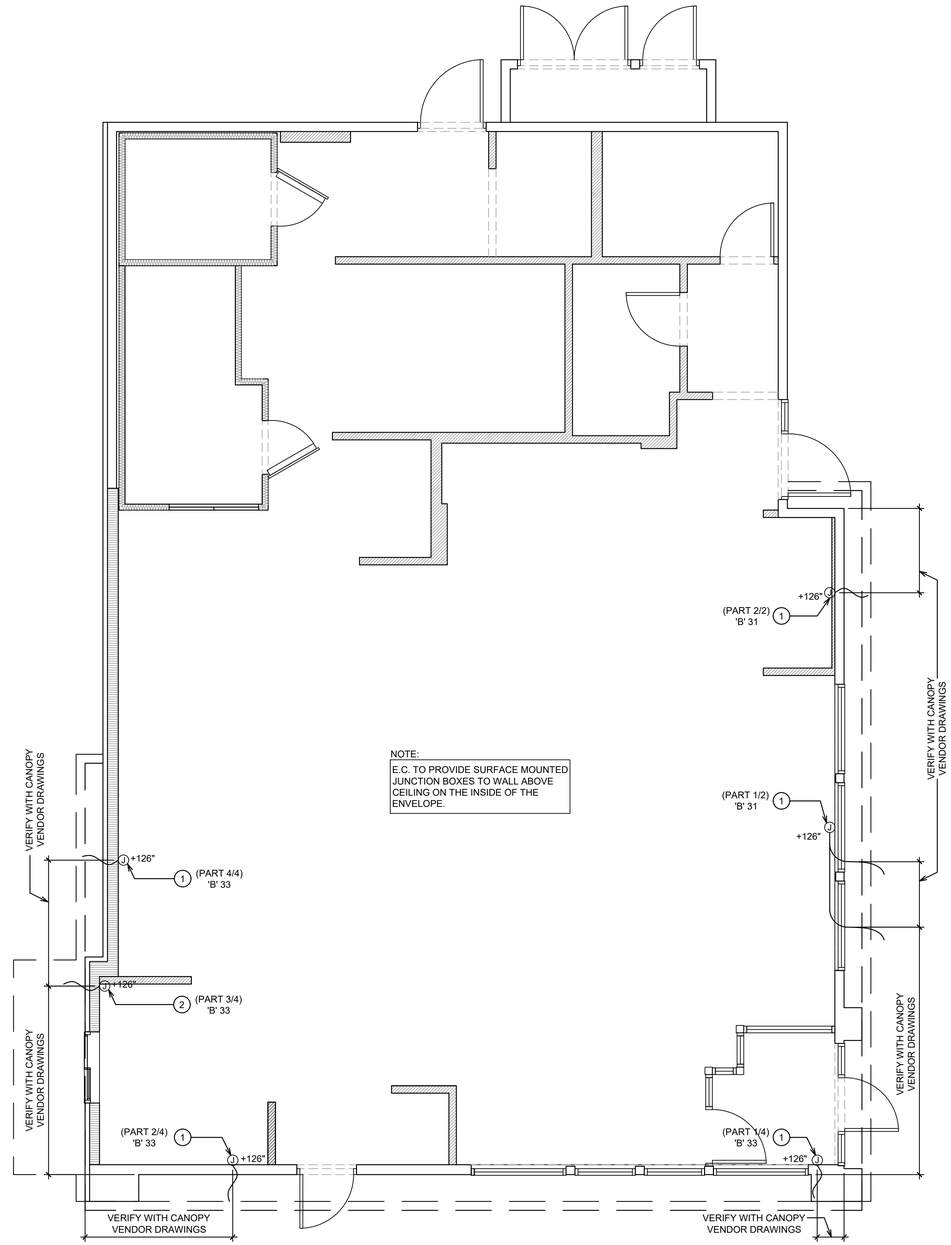
PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-101

LIGHTING FLOOR PLAN

ISSUE FOR PERMIT 11-02-21



1. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED CANOPY. E.C. TO MAKE FINAL CONNECTION.
2. E.C. TO PROVIDE J-BOX WITH 3' WHIP FOR CONNECTION TO PANDA EXPRESS PROVIDED LIGHTED DRIVE THRU CANOPY. E.C. TO MAKE FINAL CONNECTION.
3. ALL JUNCTION BOXES ON THIS SHEET TO BE RECESS MOUNTED.

CANOPY LIGHTING KEYED NOTES 2

NOT TO SCALE E-101.1

CANOPY LIGHTING PLAN 1

Scale: 1/4"=1'-0" E-101.1

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS CHINESE KITCHEN

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
ISSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
1-05-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-101.1

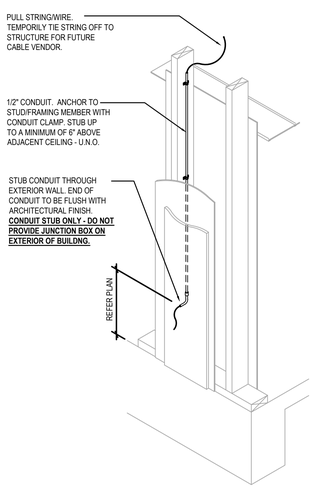
CANOPY LIGHTING PLAN

ISSUE FOR PERMIT 11-02-21

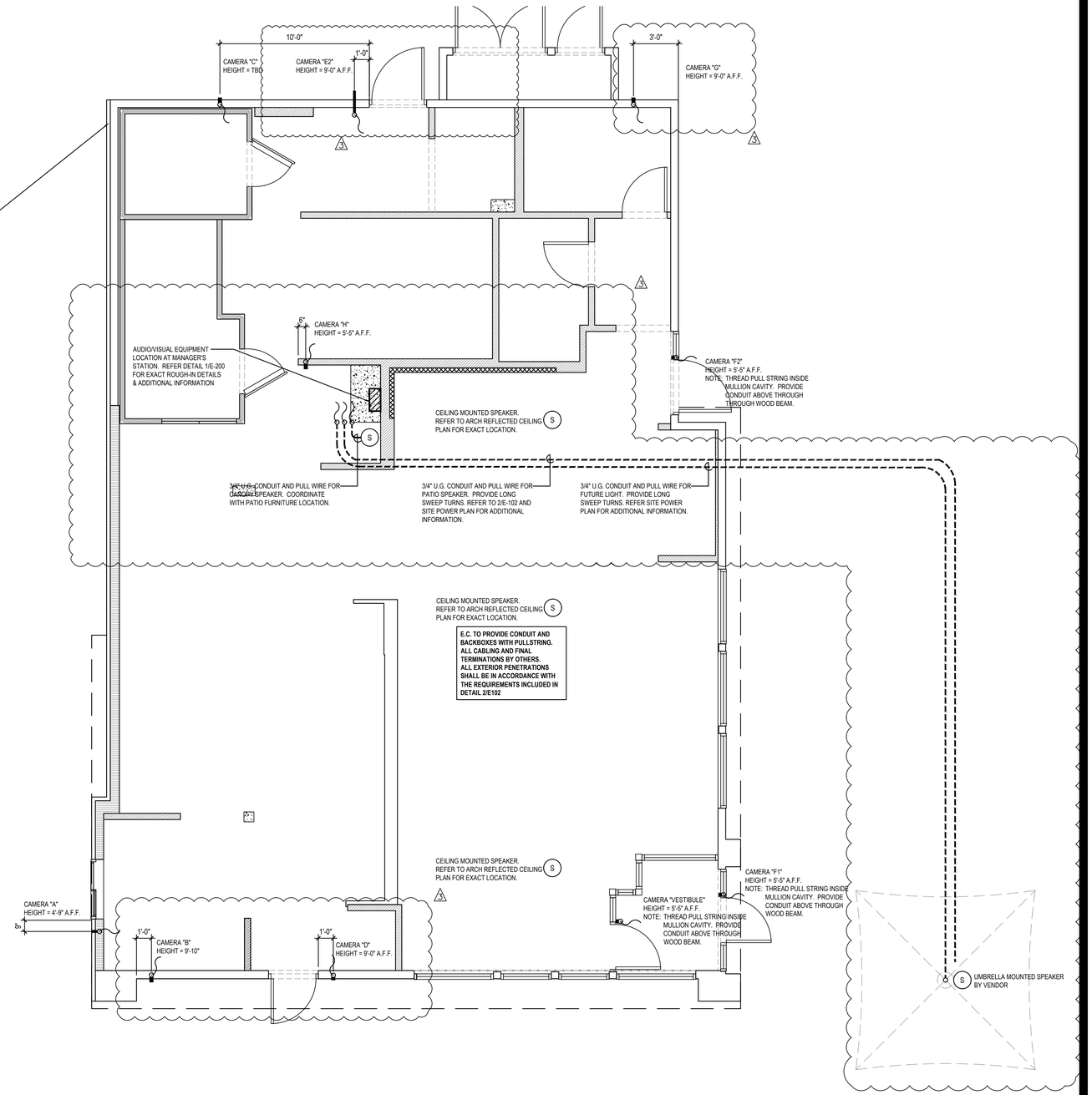
NOTE:
G.C./ELECTRICAL SUB TO COORDINATE WITH PANDA RESTAURANT PROJECT MANAGER ON ANY CAMERA LOCATIONS TO BE ADDED AND/OR OMITTED.

ACTUAL QUANTITY OF CAMERAS TO BE VERIFIED BY G.C./ELECTRICAL SUB WITH THE FOLLOWING CAMERA VENDOR CONTACT.

JOHN STRAIN
INTERFACE SECURITY SYSTEMS
PHONE: 314-708-9878
EMAIL: john.strain@interfacesys.com



CONDUIT ROUGH-IN DETAIL 2
NOT TO SCALE E-102



SECURITY CAMERA PLAN 1
Scale= 1/4" = 1'-0" E-102

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
ISSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
1-28-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-102

SECURITY CAMERA PLAN

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21

ISSUE FOR PERMIT 11-02-21

- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

1. ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING CONTACTOR SCHEDULE, 4/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
2. DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
3. CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
4. REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
5. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
6. NOT USED.
7. DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
8. MOUNT PHOTOCELL AS DETAILED ON EQUIPMENT DISCONNECT SWITCH SUPPORT DETAIL 2/E401 ON CONDENSER RACK.
9. STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
10. ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
11. UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

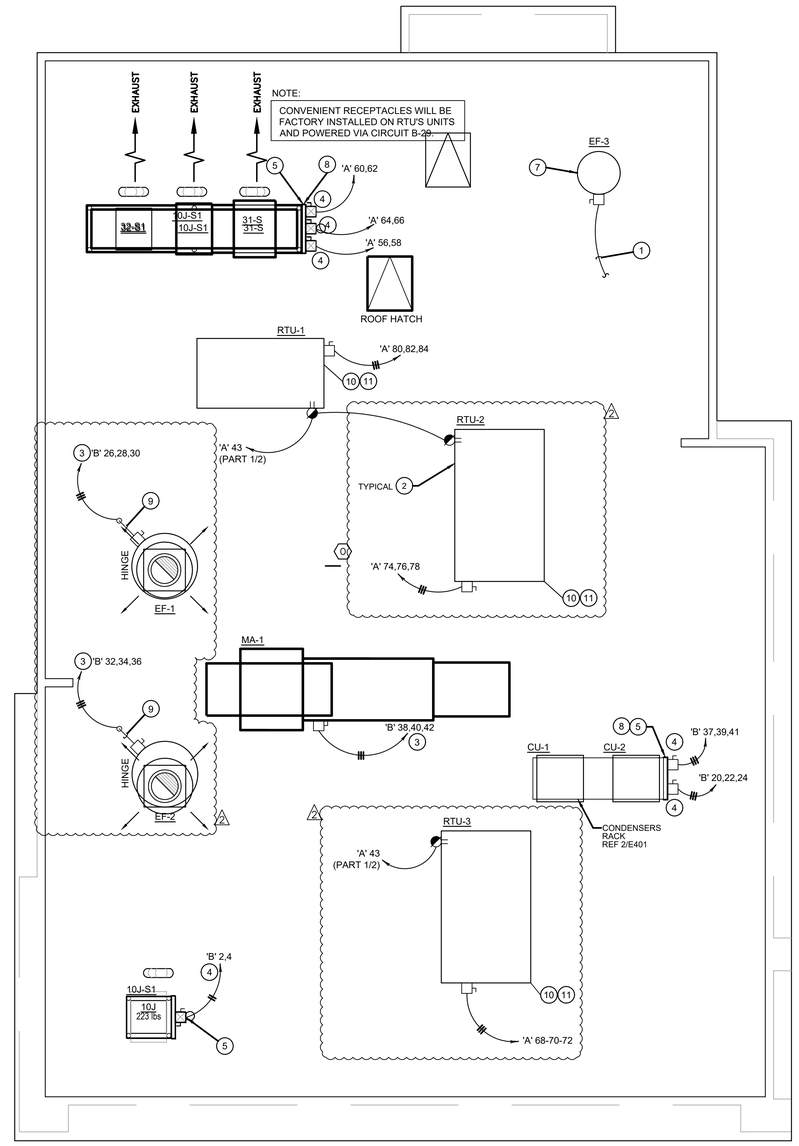
ROOFTOP EQUIPMENT SCHEDULE

TAG	DESCRIPTION	kW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
RTU1	A/C UNIT (LENNOX)			33.0	208V.3Ø	3 #8, #10 GND., 1" C.	☐[1]	AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU2	A/C UNIT (LENNOX)			46.0	208V.3Ø	3 #6, #10 GND., 1" C.	☐[1]	AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU3	A/C UNIT (LENNOX)			46.0	208V.3Ø	3 #6, #10 GND., 1" C.	☐[1]	AT UNIT	60A. 3P. 3F. WP (1)(4)
CU-1	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐[1]	AT UNIT	30A. 3P. 3F. WP (1)
CU-2	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐[1]	AT UNIT	30A. 3P. 3F. WP (1)
MA-1	MAKE-UP AIR UNIT		5.0	15.0	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[1]	AT UNIT	(1)(4)
EF-1	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[1]	AT UNIT	(1)
EF-2	EXHAUST FAN		2.0	5.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[1]	AT UNIT	(1)
EF-3	EXHAUST FAN		1/4	4.8	120V.1Ø	2 #12, #12 GND., 3/4" C.	☐[1]	AT UNIT	30A. 2P. 1F. WP (1)(4)
31-S	W/I COOLER COND.			27.0	208V.1Ø	2 #10, #10 GND., 3/4" C.	☒[1]	AT UNIT	(2)(3)
32-S1	W/I FREEZER COND.			32.0	208V.1Ø	2 #8, #8 GND., 3/4" C.	☒[1]	AT UNIT	30A. 2P. 2F. WP (3)
10J-S1	ICE MACHINE COND.			11.7	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒[1]	AT UNIT	(2)(3)

(1) DISCONNECT SWITCH PROVIDED WITH UNIT.
(2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.
(3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.
(4) ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104



ROOF POWER PLAN 1

1/4" = 1'-0" E-104

PANDA EXPRESS CHINESE KITCHEN

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

2	SOLUTION F.2	09.30.21

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
1-05-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-104

ROOF POWER PLAN

ISSUE FOR PERMIT 11-02-21

- COORDINATE SERVICE ENTRANCE SECTION, TRANSFORMER, PRIMARY SERVICE, SECONDARY SERVICE, AND SWITCHING CABINET OR POWER POLE LOCATIONS WITH SERVING UTILITY COMPANY AND COMPLY AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND TELEPHONE UTILITIES TO THE BUILDING.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED PRIOR TO TRENCHING. ALL UNDERGROUND UTILITIES DAMAGED DURING TRENCHING SHALL BE REPAIRED TO THE SATISFACTION OF INVOLVED UTILITY AT CONTRACTOR'S EXPENSE.
- MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 1" CONDUIT.

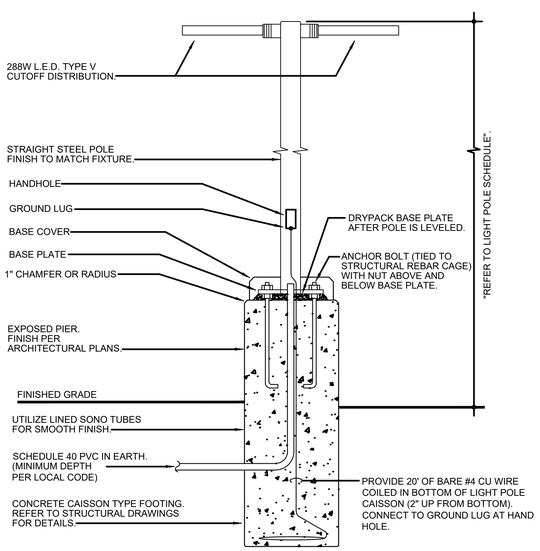
SITE PLAN GENERAL NOTES 2

E-105

1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E400.
2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E401.
3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E401.
5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
6. STUB UP LOCATION FOR PYLON SIGN OR MONUMENT SIGN. ELECTRICAL CONTRACTOR TO PROVIDE NON-FUSED DISCONNECT AT BASE OF SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. CONNECT TO EXTERIOR BUILDING SIGN TIMER CONTROL. REFERENCE 11/E400.
7. SEE POLE MOUNTING DETAIL, REFER TO 4/E105.
8. CABLE PULL BOX; REFERENCE 1/E100. INSTALL MINIMUM 3' FROM SIDEWALK. DO NOT INSTALL IN SIDEWALK CONCRETE.
9. REF: 1/E400 FOR SES GROUNDING DETAIL.

SITE PLAN KEYED NOTES 3

E-105



NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE MOUNTING DETAILS 4

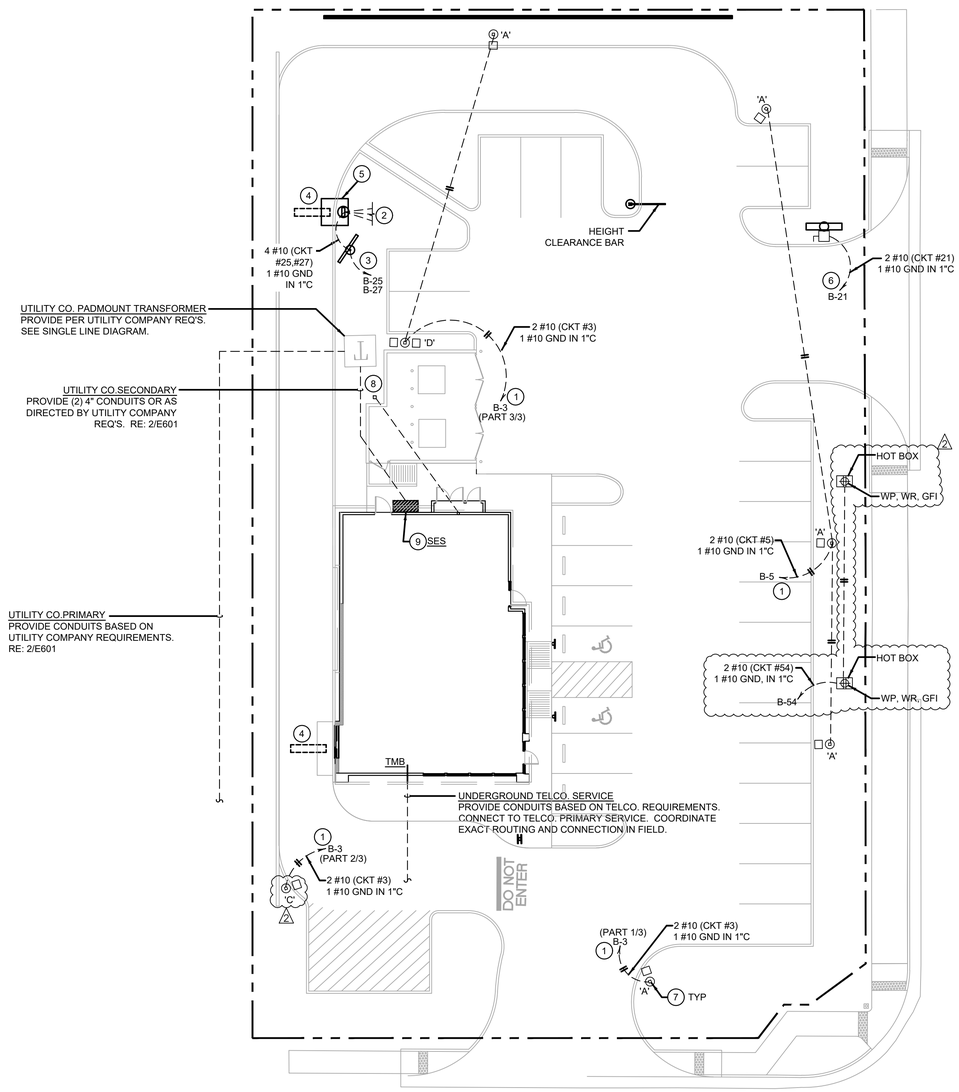
NO SCALE E-105

LIGHT POLE FIXTURE LEGEND

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FIXTURE QTY.	COLOR	REMARKS	POLE	POLE QTY.
	LSI	SLM-LED	SITE LIGHTING	8	DARK BRONZE	MOUNT ON 20'-0" SQUARE STRAIGHT POLE 22'-0" OVERALL HEIGHT WITH 2'-0" BASE	4SQB5-511G-20-X-8IRZ-4BC-ABOLTS	7

NOTE:
REFER TO PHOTOMETRIC STUDY FOR EXACT CATALOG SPECIFICATIONS OF LIGHT POLE FIXTURES

No substitutions accepted. Contact: Ryan Zimselmeier for pricing ryan.zimselmeier@sitelightling.com 314-531-2600



SITE & EXTERIOR LIGHTING PLAN 1

1" = 16'-0" E-105

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	AREA PLAN UPDATE	11-08-21

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-105

SITE & EXTERIOR LIGHTING PLAN

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21

Schedule

Symbol	Label	Quantity	Catalog Number	Description	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	5	SLM-LED-18L-SIL-FT-40--70CRI-IL- 5 DEGREE TILT	CONTACT RYAN ZINSELMEIER- 314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	148.5
	C	1	SLM-LED-18L-SIL-3-40-70CRI-IL	CONTACT RYAN ZINSELMEIER- 314-531-2600	SLM-LED-18L-SIL-3-40-70CRI--IL.ies	13767	1	148.5
	D	1	[...]	[...]	[. . .]	[. . .]	1	297
	E	4	BUSW	LED Indirect Wall Pack	BUSW-LED.ies	432	1	10.5

Statistics

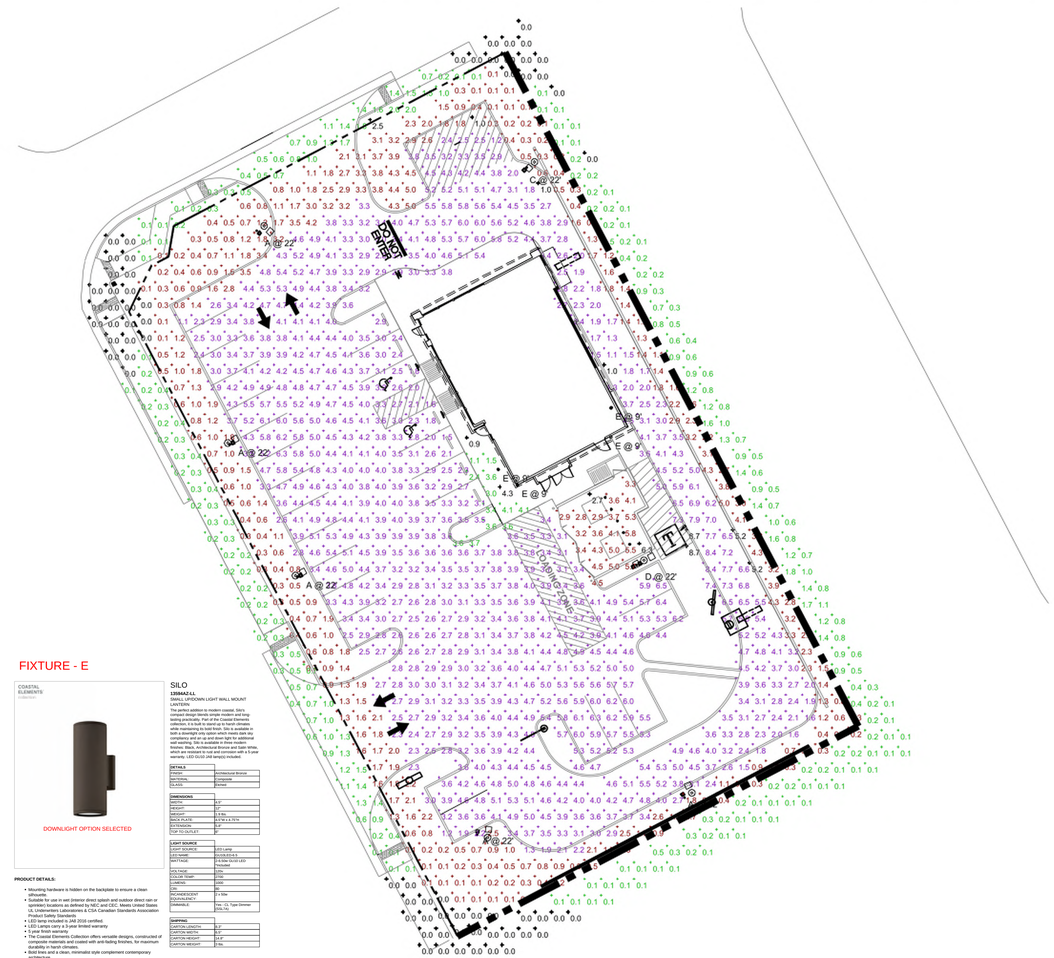
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OPEN WALKWAY	+	3.1 fc	4.3 fc	0.9 fc	4.8:1	3.4:1
PARKING/DRIVING AISLES	+	3.9 fc	8.7 fc	1.0 fc	8.7:1	3.9:1
SPILLAGE	+	0.4 fc	2.5 fc	0.0 fc	N/A	N/A
TRASH ENCLOSURE	+	4.2 fc	6.3 fc	2.7 fc	2.3:1	1.6:1
WHOLE SITE	+	1.3 fc	5.2 fc	0.0 fc	N/A	N/A

Note

1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3.CONTACT VILLA LIGHTING- RYAN ZINSELMEIER- RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600

SITE LIGHTING FIXTURE SCHEDULE | 3 | E-106

PANDA SITE LIGHTING DESIGN CRITERIA | 2 | NO SCALE | E-106


A @ 22
C @ 22
D @ 22
E @ 9
E @ 9
E @ 9

Schedule

Symbol	Label	Quantity	Catalog Number	Description	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	5	SLM-LED-18L-SIL-FT-40--70CRI-IL- 5 DEGREE TILT	CONTACT RYAN ZINSELMEIER-314-531-2600	SLM-LED-18L-SIL-FT-40-70CRI-IL.ies	12046	1	148.5
	C	1	SLM-LED-18L-SIL-3-40-70CRI-IL	CONTACT RYAN ZINSELMEIER-314-531-2600	SLM-LED-18L-SIL-3-40-70CRI--IL.ies	13767	1	148.5
	D	1	[...]	[...]	[. . .]	[. . .]	1	297
	E	4	BUSW	LED Indirect Wall Pack	BUSW-LED.ies	432	1	10.5

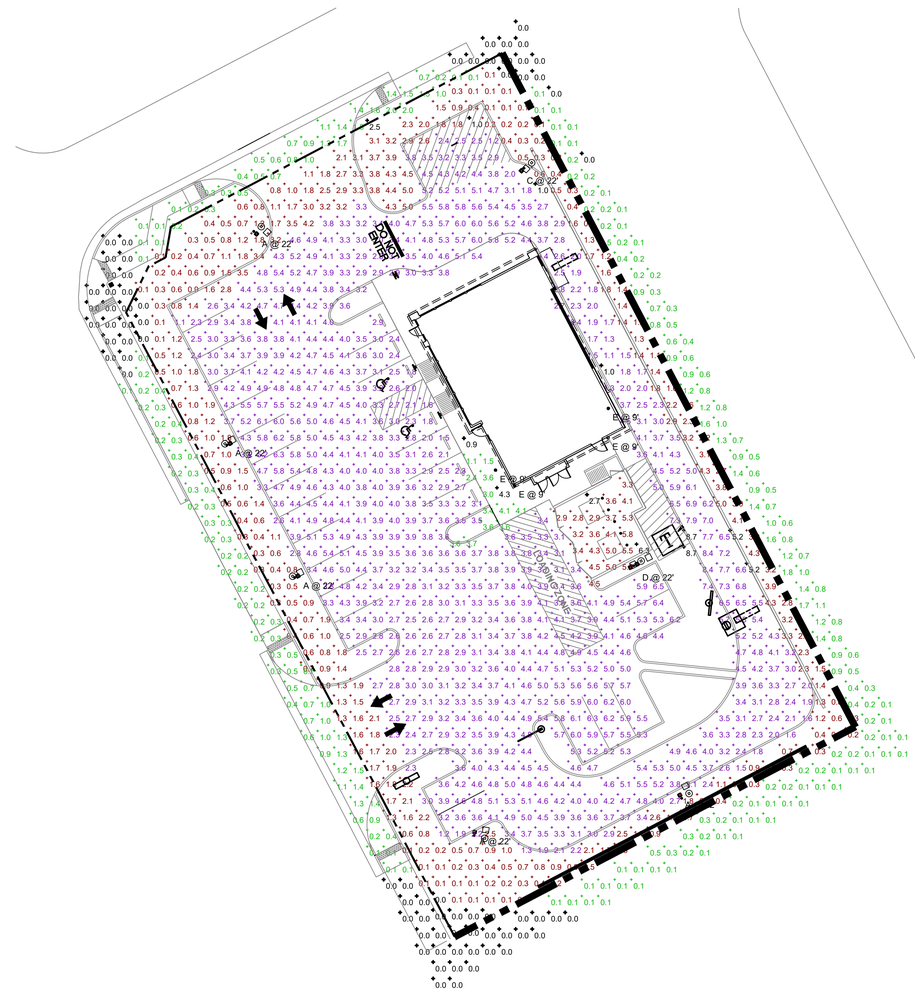
Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OPEN WALKWAY	+	3.1 fc	4.3 fc	0.9 fc	4.8:1	3.4:1
PARKING/DRIVING AISLES	+	3.9 fc	8.7 fc	1.0 fc	8.7:1	3.9:1
SPILLAGE	+	0.4 fc	2.5 fc	0.0 fc	N/A	N/A
TRASH ENCLOSURE	+	4.2 fc	6.3 fc	2.7 fc	2.3:1	1.6:1
WHOLE SITE	+	1.3 fc	5.2 fc	0.0 fc	N/A	N/A

Note

1. MOUNTING HEIGHT OF 22' (20'POLE)
2. CALCULATIONS TAKEN AT GROUND LEVEL
3.CONTACT VILLA LIGHTING- RYAN ZINSELMEIER-RYAN.ZINSELMEIER@VILLALIGHTING.COM- 314-531-2600

SITE LIGHTING FIXTURE SCHEDULE	3	PANDA SITE LIGHTING DESIGN CRITERIA	2
	E-106	NO SCALE	E-106



SITE PHOTOMETRIC PLAN	1	
N.T.S.	E-106	

PANDA EXPRESS CHINESE KITCHEN

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	SITE LIGHTING UPDATE	11-08-21

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4887 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
REG. No. 16422
1-05-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

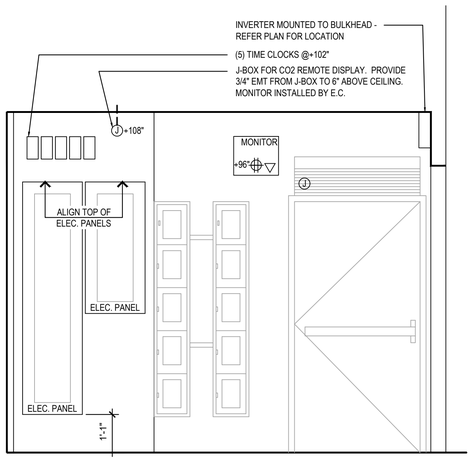
TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-106

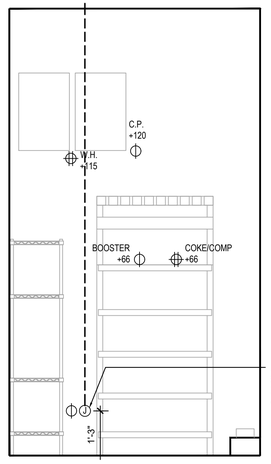
HOT - MEDIUM
SITE PHOTOMETRIC PLAN

ISSUE FOR PERMIT 11-02-21

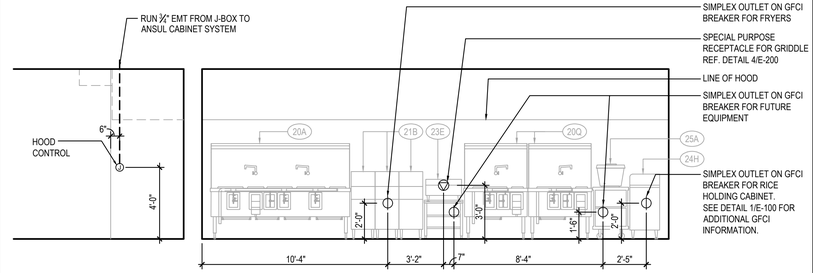
TRUE WARM & WELCOME 2300 R6



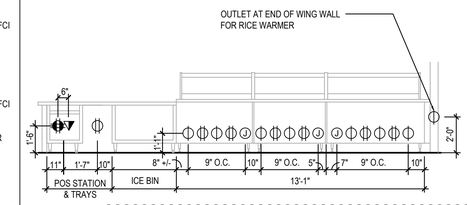
BOH REAR WALL ELEVATION | 9
NOT TO SCALE | E-200



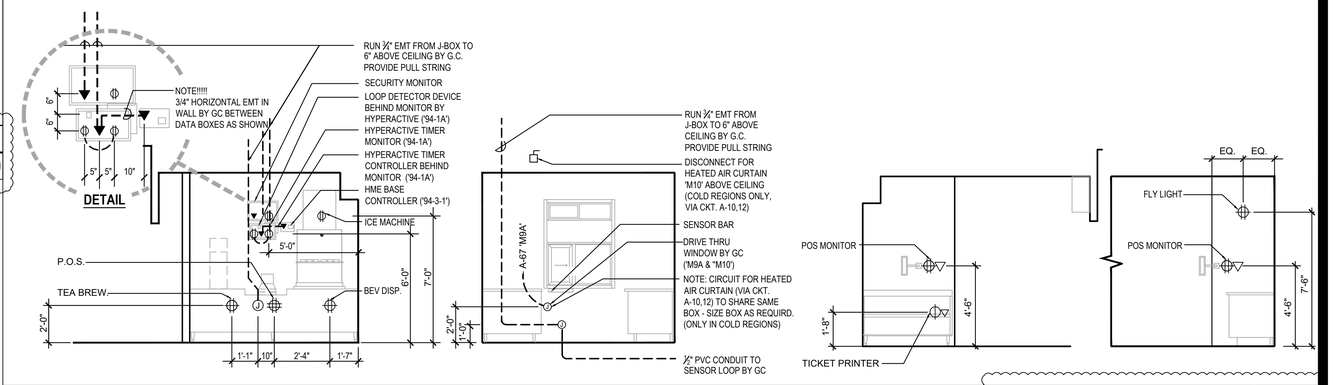
C02 ELEVATION | 10
NOT TO SCALE | E-200



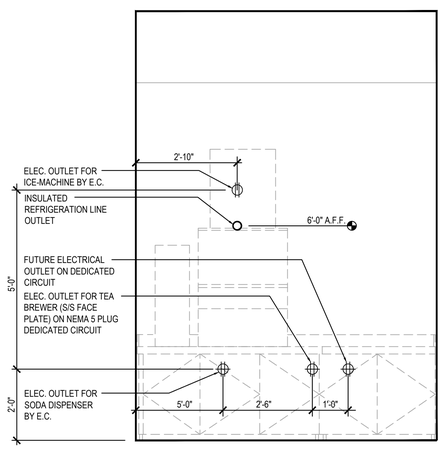
COOKLINE ELECTRICAL ELEVATIONS | 6
NOT TO SCALE | E-200



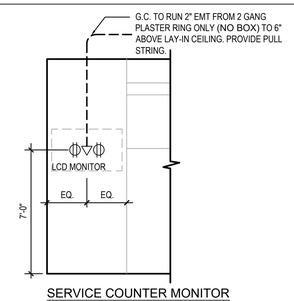
P.O.S. & SERVICE LINE ELEVATION | 3
NOT TO SCALE | E-200



DRIVE-THRU ELEVATIONS | 2
Scale: approx. 1/4"=1'-0" | E-200



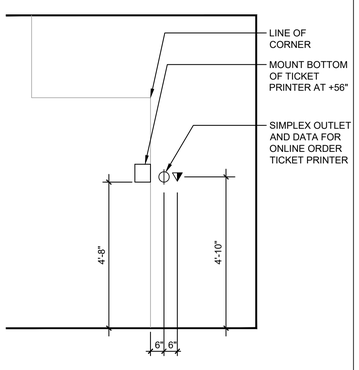
DRINK STATION ELEVATION | 5
NOT TO SCALE | E-200



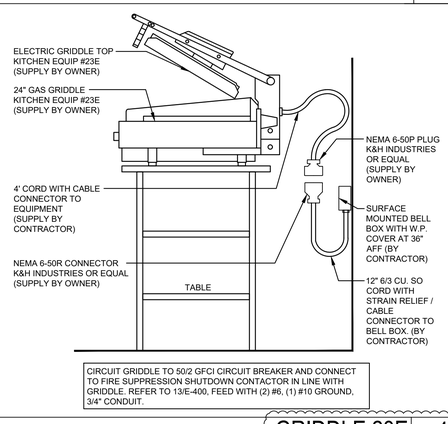
SERVICE COUNTER MONITOR

MONITOR ELEVATION | 8
NOT TO SCALE | E-200

NOT USED | 11
NOT TO SCALE | E-200

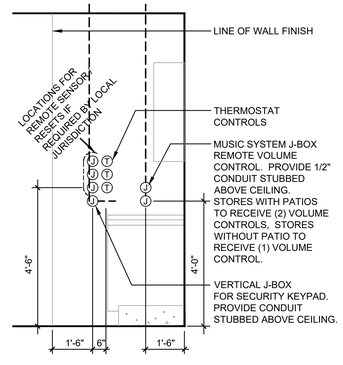


TICKET PRINTER ELEV. | 7
NOT TO SCALE | E-200

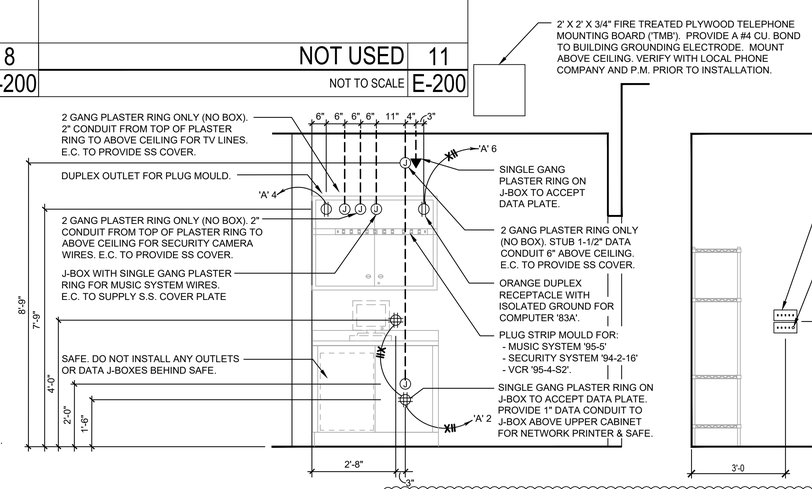


CIRCUIT GRIDDLE TO 50/2 GFCI CIRCUIT BREAKER AND CONNECT TO FIRE SUPPRESSION SHUTDOWN CONTACTOR IN LINE WITH GRIDDLE. REFER TO 13/E-400, FEED WITH (2) #6, (1) #10 GROUND, 3/4" CONDUIT.

GRIDDLE 23E | 4
NOT TO SCALE | E-200



LEFT SIDE ELEVATION



FRONT ELEVATION

RIGHT SIDE ELEVATION

MANAGER'S STATION/SWTICH BANK ELEVATIONS | 1
NOT TO SCALE | E-200

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4887 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
LIC. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS

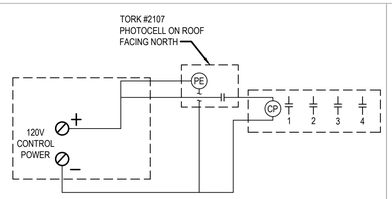
TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-200

ELECTRICAL ELEVATIONS

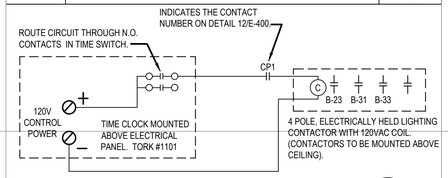
TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21



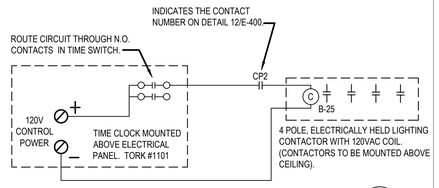
PHOTOCELL/TIME CLOCKS 12

NOT TO SCALE E-400



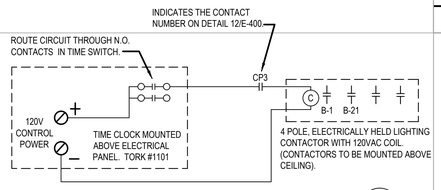
CONTRACTOR TO LABEL TIMECLOCK "BUILDING LIGHTS"

A



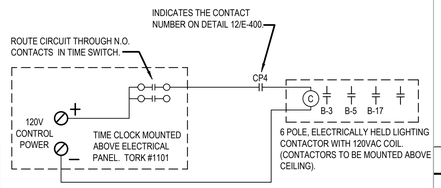
CONTRACTOR TO LABEL TIMECLOCK "DRIVE THROUGH"

B



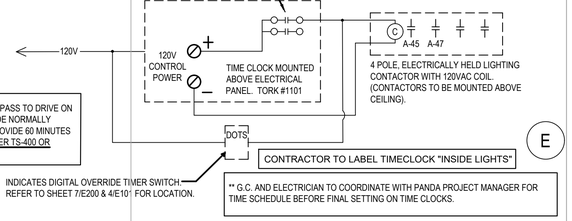
CONTRACTOR TO LABEL TIMECLOCK "SIGNS"

C



CONTRACTOR TO LABEL TIMECLOCK "PARKING LOT"

D



DIGITAL OVERRIDE TIMER SWITCH: SHALL BE INSTALLED AS A BYPASS TO DRIVE ON THE INTERIOR LIGHTING WHEN OPERATION IS REQUIRED OUTSIDE NORMALLY PROGRAMMED HOURS. OVERRIDE SWITCH SHALL BE SET TO PROVIDE 60 MINUTES OF EXTENDED OPERATING TIME. SWITCH SHALL BE WATTSTOPPER TS-400 OR EQUIVALENT.

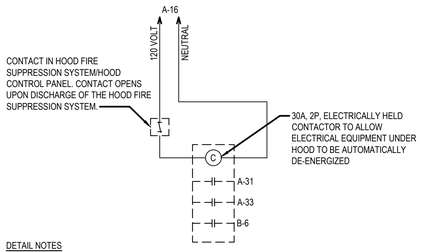
CONTRACTOR TO LABEL TIMECLOCK "INSIDE LIGHTS"

E

** G.C. AND ELECTRICIAN TO COORDINATE WITH PANDA PROJECT MANAGER FOR TIME SCHEDULE BEFORE FINAL SETTING ON TIME CLOCKS.

TIME CLOCKS 11

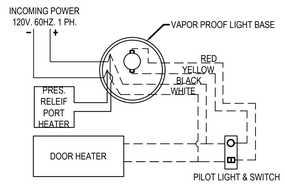
NOT TO SCALE E-400



DETAIL NOTES
CONTACTORS SHALL BE INSTALLED IN A SINGLE ENCLOSURE AND THE ENCLOSURE SHALL BE INSTALLED ABOVE THE KITCHEN CEILING.

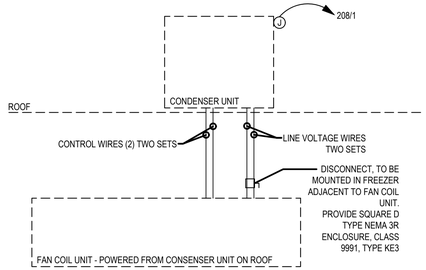
FIRE SUPPRESSION SHUTDOWN 13

NOT TO SCALE E-400



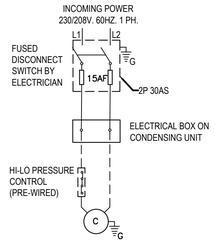
FREEZER LTG & DOOR HTR WIRING DIAGRAM 10

NOT TO SCALE E-400



FREEZER EVAPORATOR COIL 9

NOT TO SCALE E-400



CONDENSING UNIT 7

NOT TO SCALE E-400

1. WIRING SHOULD BE DONE ACCORDING WITH NATIONAL AND LOCAL CODE.

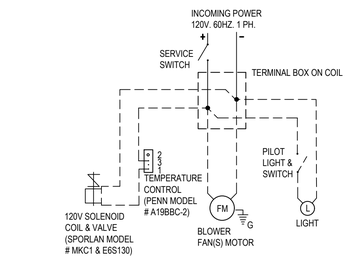
2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.

3. SOLID LINES TO BE WIRED BY LICENSED ELECTRICIAN ON SITE. DOTTED LINES ARE MANUFACTURE PRE-WIRED.

4. ANY PENETRATIONS THROUGH BOX SHALL BE SEALED AIR TIGHT.

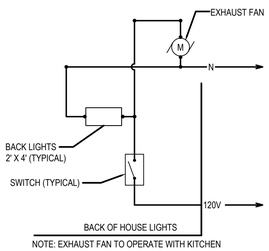
WIC / WIF WIRING NOTES 6

NOT TO SCALE E-400



COOLER EVAPORATOR COIL 8

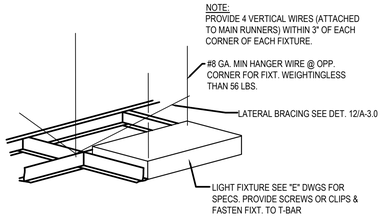
NOT TO SCALE E-400



NOTE: EXHAUST FAN TO OPERATE WITH KITCHEN LIGHTS TO REGULATE BUILDING PRESSURE.

EXHAUST FAN CONTROL DIAGRAM 5

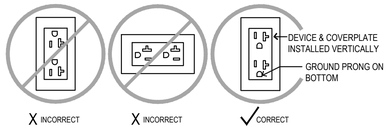
NOT TO SCALE E-400



LIGHT FIXTURE DETAIL 4

NOT TO SCALE E-400

DEVICE ORIENTATION

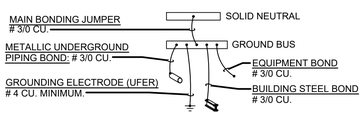


DEVICE & COVERPLATE COLOR

LOCATION	DEVICE COLOR	COVER PLATE COLOR	NOTES
DINING ROOM (WALLS)	VERIFY W/PX	VERIFY W/PX	VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL
DINING ROOM (IN BULKHEAD ABOVE WINDOWS)	VERIFY W/PX	VERIFY W/PX	VERIFY WITH PANDA PM PRIOR TO PURCHASE AND INSTALL
DINING ROOM (WHEN IN CEILING)	BLACK	BLACK	@ SHOW WINDOW IN DARK CEILING (IF APPLICABLE)
RESTROOM	GREY	STAINLESS STEEL	--
RESTROOM VESTIBULE	GREY	STAINLESS STEEL	--
KITCHEN/SERVICE AREAS	GREY	STAINLESS STEEL	--

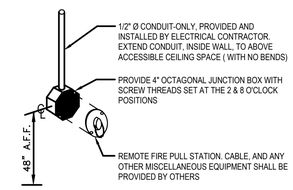
DEVICE / RECEPTACLE SCHEDULE 3

NOT TO SCALE E-400



'SES' GROUNDING DETAIL 1

NOT TO SCALE E-400



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
1-28-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

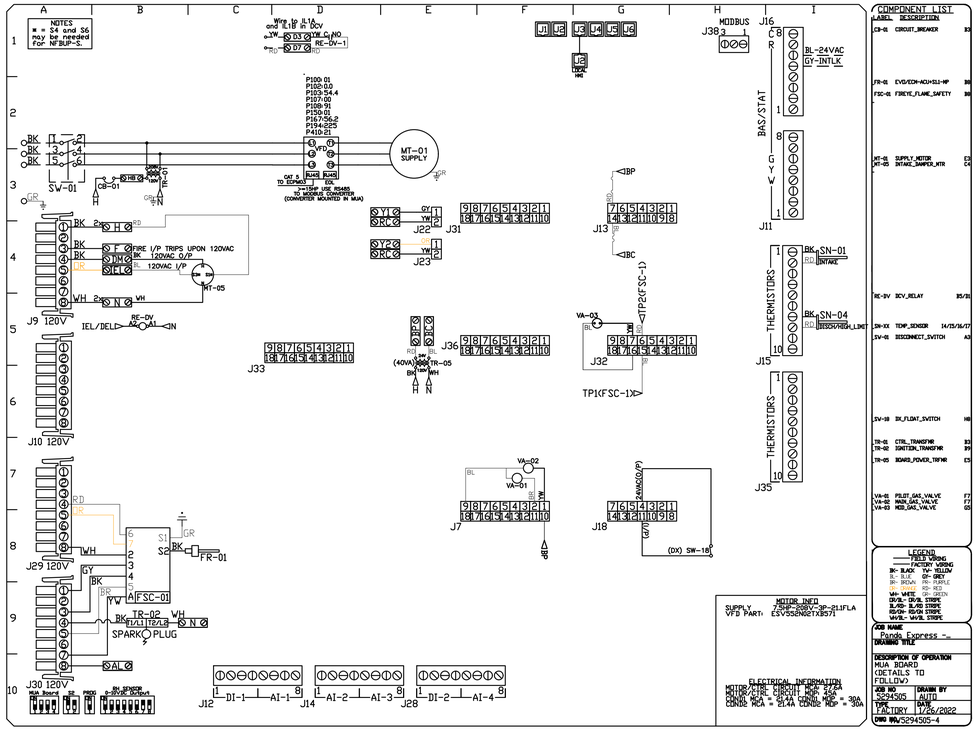
E-400

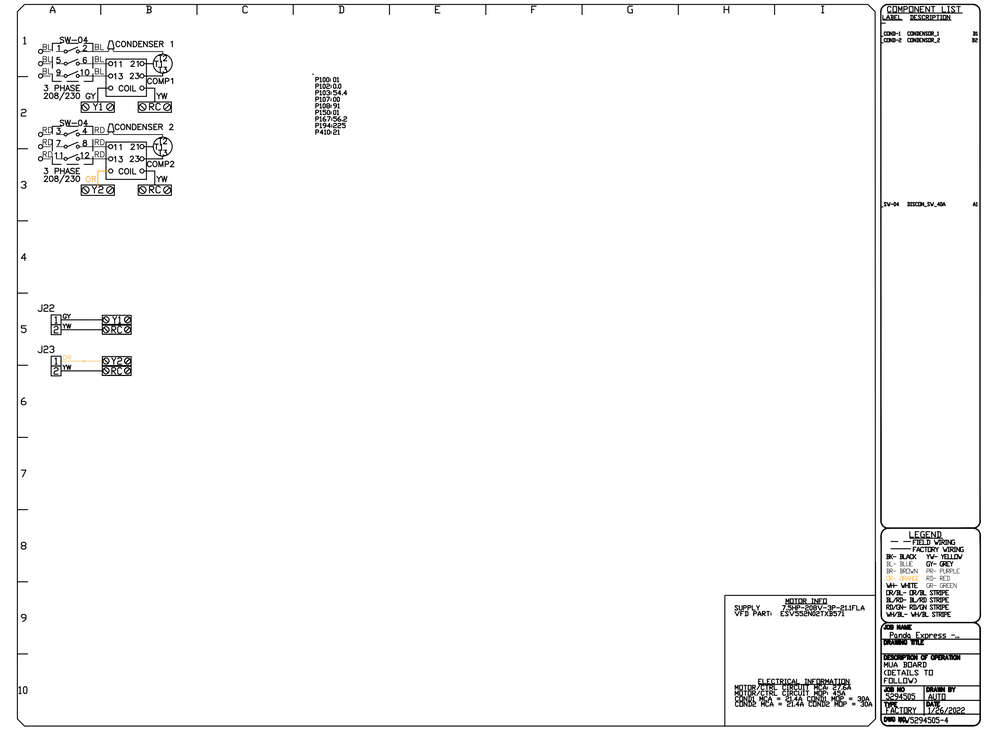
HOT - MEDIUM
ELECTRICAL DETAILS, DIAGRAMS

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21

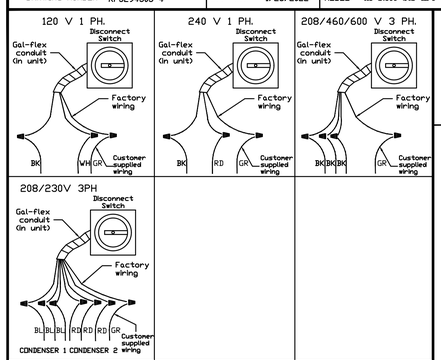
ISSUE FOR PERMIT 11-02-21





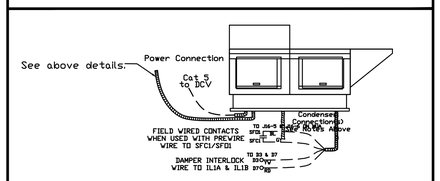
Installation Wiring

DRAWING NUMBER RP5294505-4	SHIP DATE 1/26/2022	JOB 5294505 - Panda Express - Newport News ... / MODEL A3-D.500-24D-MPU



Installed Options

Field Wired Switch



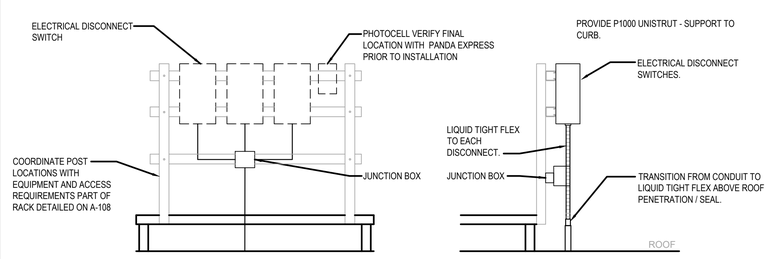
NOTES

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

KITCHEN EXHAUST SYSTEM DIAGRAM 3

NOT TO SCALE E-401

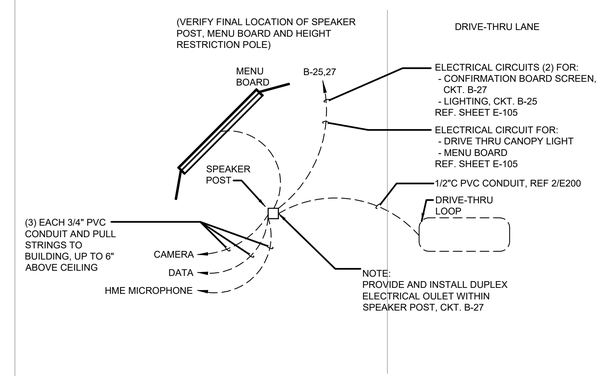


NOTE: LIQUID TIGHT FLEX TO UNITS AND DISCONNECTS NOT SHOWN FOR CLARITY.

NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE (3) HORIZONTAL UNISTRUTS THAT MOUNT TO VERTICAL PIECES OF RACK. RACK PROVIDED BY OTHERS.
REFER TO ARCHITECTURAL DETAILS, A-108, FOR ADDITIONAL INFORMATION.

EQUIPMENT DISCONNECT SWITCH SUPPORT 2

NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP 1

E-401

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
LIC. No. 16422
1-05-22
PROFESSIONAL ENGINEER

PANDA EXPRESS

TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-401

ELECTRICAL DETAILS, DIAGRAMS

ISSUE FOR PERMIT 11-02-21

PANELBOARD NOTES ( )

(1) KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).

(2) TERMINATE GROUND ON ISOLATED GROUND BUS.

(3) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E-400.

(4) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.

(5) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.

(6) GFCI BREAKER

(7) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAITENANCE).

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL A — PANELBOARD (NEW)

MOUNTING: FLUSH
LOCATION: ELEC. CABINET
TYPE: BOLT ON W/GROUND BUS
NEMA RATING: 1

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W
400A M.L.O.
SERIES RATED 65/10K A.I.C.
GROUND BUS
ISOLATED GROUND

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	WIC DISPLAY LTS/MENUBRD/LED	12	20	1	0.33	1.00		1	20	12	FAX '87', MGR '84C', COMP '49A'	2
3	HOOD CONTL PNL 'M4'	12	20	1		0.50	0.60	1	20	12	MUSIC, VCR, MONITOR	4
5	SERVICE POS 94, PTR '86A'(2,6)	12	20	1			1.10 0.50	1	20	12	COMPUTER RECEP '83A' (2)	6
7	D.THRU POS '94'/PTRS '86A'(2,6)	12	20	1	1.10	0.13		1	20	12	10J ICE MACHINE (6)	8
9	95-4-S3', FLY LT,CO2 (1)	12	20	1		0.82	1.41	2	20	12	CHF-25 'M10' AIR CURTAIN	10
11	RICE WARMER '54A' (1,4)	12	20	1			0.11 1.41					12
13	REF. PREP TABLE '34O' (1)	12	20	1	1.44	1.18		1	20	12	REAR DOOR - FLY FAN 'M8A'	14
15	REF. PREP TABLE "34D" (1)	12	20	1		1.08	0.10	1	20	12	FIRE SUPPRES SHUTDOWN	16
17	UNDER CTR FRZR '30L' (1,4)	10	20	1			1.08 1.18	1	20	12	SIDE DOOR - FLY FAN 'M8C'	18
19	BEVERAGE DISP.'4AB'(1)	12	20	1	1.12	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	20
21	SERVING COUNTER	12	20	1		0.10	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	22
23	ICE TEA BREWER '9D'	12	20	1			1.78 1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	24
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	26
27	SPARE		20	1			1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	28
29	WALK-IN COOLER COIL '31M'(1)	12	20	1			0.24 1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	30
31	RICE HOLD CAB '24H' (1,4,6)	10	20	1	1.78	1.30		1	20	10	INDUCT WELL 3F, 3G (1,4,6)	32
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84	1	20	12	RAD TOP HEATER '1S2B1' (1)	34
35	TIMECLOCK	12	20	1			0.01 1.10	1	20	12	RAD TOP HEATER '1S2B2' (1)	36
37	4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10		1	20	12	RAD TOP HEATER '1S2B2' (1)	38
39	HEAT WRAP '32-S7 (4)	12	20	1		0.50	0.18	1	20	12	FUTURE EQUIPMENT	40
41	FLY LIGHT	12	20	1			0.18 0.87	1	20	12	THAWING CABINET	42
43	DUCT DETECTORS	12	20	1	0.20			1	20		SPARE	44
45	LTG-FOOD PRP/EF3 (4)	10	20	1		1.13		1	20		SPARE	46
47	LTG DINING AREA	12	20	1			0.25 1.40	2	15	12	MICROWAVE - 55A (1)	48
49	SHOW WINDOW RECEPS	12	20	1	0.90	1.40						50
51	GENERAL RECEPS	12	20	1		0.72	0.18	1	20	12	FUTURE EQUIPMENT	52
53	EXTERIOR RECEPS	12	20	1			0.36 0.36	1	20	10	HOT BOX	54
55	SPARE		20	1		1.23		2	20	12	ICE MACHINE COND. '10J-S' (1)	56
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23					58
59	GAS WATER HEATER - P3, (6)	12	20	1			1.80 3.33	2	40	8	WALKIN FRZR COND. '32-S1'(1,7)	60
61	ICE TEA BREWER "9D" (1,4)	10	20	1	1.78	3.33						62
63	LTG - RESTRMS	12	20	1		0.07	2.81	2	35	10	WALK IN COOL COND '31-S' (1)	64
65	SPARE		20	1			2.81					66
67	DT WINDOW 'M9A' AIR CURTAIN	12	20	1	0.50	5.52		3	50	6	RTU-3	68
69		10	20	1		1.30	5.52				(LENNOX)	70
71		10	20	1			1.30 5.52					72
73	ELECTRIC GRIDDLE - "23E" (1,6)	6	50	2	3.79	5.52		3	50	6	RTU-2	74
75						3.79	5.52				(LENNOX)	76
77	SPARE						5.52					78
79	SPACE					3.96		3	45	6	RTU-1	80
81	SPACE						3.96				(LENNOX)	82
83	SPACE						3.96					84
	PANELBOARD TOTALS CALCULATED			TOTAL	43.25	35.28	38.75				KVA	
	PER NEC ARTICLE 220				361	295	323				AMPS	
				TOTAL LOAD	117.29	KVA	326				AMPS	
				FEEDER LOAD	103.26	KVA	287				AMPS	

3

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL B — PANELBOARD (NEW)

MOUNTING: FLUSH
LOCATION: ELEC. CABINET
TYPE: BOLT ON W/GROUND BUS
NEMA RATING: 1

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W
225A M.L.O.
SERIES RATED 65/10K A.I.C.
GROUND BUS

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23		2	20	10	ICE MACHINE COND. '10J-S1' (4)	2
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.89 1.23					4
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.45 0.90	1	20	12	21B MJ345 FRYER (1,6)	6
7	TICKET PRINTER	12	20	1	0.22	5.64		3	60	6	DISHWASHER	8
9	BEV. DISPENSER 4AB (1,4)	12	20	1			1.12 5.64					10
11	SECURITY/POS MONITORS	12	20	1			0.10 5.64					12
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10						SPACE	14
15	DINING TV'S	12	20	1			0.26				SPACE	16
17	SPARE		20	1							SPACE	18
19	COKE CARBONATOR	12	20	1	0.20	2.57		3	30	10	CU-2	20
21	MONUMENT SIGN (3,4)	10	20	1			0.50 2.57					22
23	BUILDING LTG/EM (3)	12	20	1			0.10 2.57					24
25	MENUBOARD (3,4)	10	20	1	1.50	0.71		3	15	12	EF-1	26
27	DR THRU ORDER SCREEN (4)	10	20	1			1.00 0.71					28
29	RTU CONVENIENCE OUTLETS	12	20	1			0.54 0.71					30
31	CANOPY LIGHTING (3)	12	20	1	0.13	0.71		3	15	12	EF-2	32
33	CANOPY LIGHTING (3)	12	20	1			0.13 0.71					34
35	EXTERIOR MOTION SECURITY LED	12	20	1			0.71					36
37	CU-1	10	30	3	2.57	2.40		3	30	10	MAU-1	38
39						2.57	2.40					40
41							2.57 2.40					42
	PANELBOARD TOTALS CALCULATED			TOTAL	18.96	19.71	16.67				KVA	
	PER NEC ARTICLE 220				158	165	139				AMPS	
				TOTAL LOAD	55.34	KVA	154				AMPS	
				FEEDER LOAD	50.58	KVA	141				AMPS	

3

SES — SWITCHBOARD (NEW)

MOUNTING: SURFACE
LOCATION: OUTSIDE IN NEMA 3R ENCLOSURE

208Y/120V, 3PH, 4W
600A M.C.B.
65,000 AIC
GROUND BUS
ISOLATED GROUND

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	PANELBOARD "A" (5)		400	3	43.25							2
3						35.28					SPACE	4
5							38.75					6
7					18.96							8
9	PANELBOARD "B" (5)		200	3		19.71					SPACE	10
11							16.67					12
13												14
15	SPACE										SPACE	16
17												18
	PANELBOARD TOTALS CALCULATED			TOTAL	62.21	55.00	55.43				KVA	
	PER NEC ARTICLE 220				519	459	462				AMPS	
				TOTAL LOAD	172.63	KVA	480				AMPS	
				FEEDER LOAD	153.84	KVA	428				AMPS	

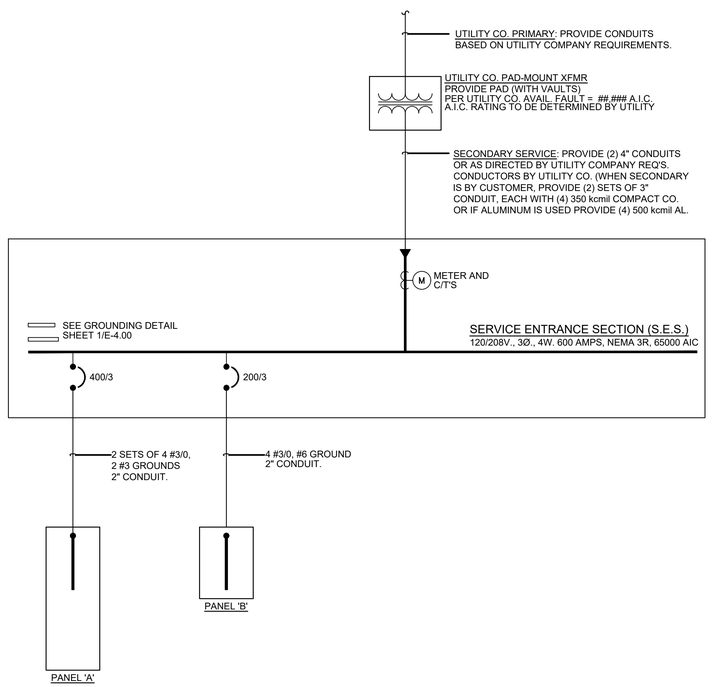
3

Total VA per system

1) General Receptacles - 1st 10,000VA	=	9,904	x	1.00	=	9,904
2) General Receptacles - over 10,000VA	=		x	0.50	=	
3) Kitchen Equipment	=	59,943	x	0.65	=	38,963
4) Lighting	=	4,403	x	1.25	=	5,504
5) HVAC	=	68,154	x	1.00	=	68,154
6) Refrigeration	=	17,180	x	1.00	=	17,180
7) Continuous	=	4,356	x	1.25	=	5,445
8) Non-Continuous	=	8,688	x	1.00	=	8,688
9) Spare	=		x	1.00	=	
Total VA per system	=	172,628				153,837
Panelboard voltage	=	360				360
Total Connected Load (amperes)	=	480				
Total Diversified Load (amperes)	=					428

PANEL SCHEDULES 1

NOT TO SCALE E-601



1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES 3

NOT TO SCALE E-601

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES 4

NOT TO SCALE E-601

ELECTRICAL SERVICE ENTRANCE COORDINATION

NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE
SERVICE TO BUILDING ROUTED: TBD
AVAILABLE FAULT CURRENT: TBD
METERING LOCATION: EXTERIOR BUILDING

UTILITY COMPANY: XXXXXXXXXXXXXXXXXX
NAME OF CONTACT: XXXXXXXXXXXXXXXXXX
PHONE: (XXX)-XXX-XXXX
EMAIL: XXXXXXXXXXXX@XXXXX.com

ITEMS	CONTRACTOR FURNISHED BY	CONTRACTOR INSTALLED BY	UTILITY COMPANY FURNISHED BY	UTILITY COMPANY INSTALLED BY
PRIMARY CONDUCTORS			X	X
PRIMARY TERMINATIONS			X	X
PRIMARY CONDUIT(S)	X	X		
PRIMARY TRENCH/BACKFILL	X	X		
TRANSFORMER -(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X	X
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X		
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X	X
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X		
SECONDARY CONDUIT	X	X		
SECONDARY TRENCH/BACKFILL	X	X		
METERING CT'S - TO BE DETERMINED BY UTILITY			X	X
METER HOUSING - PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X		

CONTRACTOR NOTE:
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.

SINGLE LINE DIAGRAM 2

NOT TO SCALE E-601

ISSUE FOR PERMIT 11-02-21

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

3	OWNER REVISIONS	01-27-22

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
SSUE FOR BID (DT)	02-04-22

DRAWN BY: AE

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119
(918) 582-6088 • (918) 582-6087 FAX

COMMONWEALTH OF VIRGINIA
JOHN E. VEST III
Lic. No. 16422
PROFESSIONAL ENGINEER

PANDA EXPRESS
TRUE WARM & WELCOME
JEFFERSON AVE. & MORRIS DR.
NEWPORT NEWS,VA 23605

E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21