



ENLARGED OFFICE PLAN

P.O.S.(J8)	C-25 (IG)
REFRIG.(D22)	A-28
TRANSFER BIN(G1)	A-39,41

TRANSFER BIN CHASE

P.O.S.(G12)	C-36 (IG)
D/T TIMER (K7,K9)	C-39
MICROWAVE(C5)	EQ-18,20
MICROWAVE(G5)	EQ-22,24

FRONT MAKE UP TABLE CHASE

BISC. HTR	A-31,33
M. HT WELL	A-4
F. HT WELL	B-15
F. HT WELL	B-19
REFRIG.	B-34
COLD PAN	B-36
HTD SHELF(G4)	A-6,8
CHAIN BRLR(G6)	A-14,16
R. HT WELL	A-15
HEAT MAT	A-19
HEAT MAT	A-21
TIMERS	A-42
P.O.S.(G12)	C-36 (IG)
SPARE	EQ-14,16
SPARE	EQ-21,23

REAR MAKE UP TABLE CHASE

ELECTRICAL LEGEND	
120 VOLT SIMPLEX RECEPTACLE	120 VOLT DUPLEX RECEPTACLE
120 VOLT DUPLEX RECEPTACLE MOUNTED UNDER COUNTER	120 VOLT DUPLEX RECEPTACLE W/ TWO USB CHARGING PORTS
208 VOLT, 1 OR 3 PHASE SINGLE RECEPTACLE	208 VOLT, RECEPTACLE (TWIST LOCK) (L14-20R)
120 VOLT DUPLEX RECEPTACLE (WEATHER PROOF)	120 VOLT QUAD RECEPTACLE
208 VOLT RECEPT & PLUG SUPPLIED BY HARDEES INSTALLED BY E.C.	TELEPHONE JACK
DATA JACK	PHONE/DATA JACK
MOTOR AND NON-FUSED DISCONNECT	2-POLE WALL SWITCH
JUNCTION BOX	HOMERUN

ELECTRICAL POWER PLAN

- CONTROL CIRCUIT RECEPTACLE FOR FRYERS, FLAT GRIDDLE AND FILTER MOTOR RECEPTACLES SHALL BE POWERED AND INTERLOCKED WITH EXHAUST FAN AND FIRE PROTECTION SYSTEM. REFER TO SHEET E-4 FOR CIRCUITS TO EQUIPMENT ON ROOF.
- THE PREFABRICATED HOOD IS PROVIDED WITH A COVER PLATE FOR THE TIMER OUTLETS. THE CONTRACTOR SHALL INSTALL DUPLEX RECEPTACLES AND WIRE TO BRANCH CIRCUIT.
- COORDINATE WITH OWNER FOR INFORMATION ON INSTALLATION AND WIRING REQUIREMENTS FOR P.O.S. COMPUTERIZED CASH REGISTER SYSTEM. INSTALLED BY ELECTRICAL CONTRACTOR. VERIFY REQUIREMENTS WITH P.O.S. SUPPLIER PRIOR TO BID.
- INSTALL TELEPHONE SERVICE TO ALL LOCATIONS INDICATED. COORDINATE WITH LOCAL TELEPHONE COMPANY.
- RECEPTACLES FOR BLODGETT OVEN PROVIDED WITH EQUIPMENT. VERIFY TYPE OF MACHINE WITH OWNER.
- HARD WIRED 1/2" LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION TO WATER HEATER.
- UNDERCOUNTER RECEPTACLE FOR "MONSTER" DRINK DISPLAY CASE
- (4) JUNCTION BOXES, SIDE BY SIDE (4" OCTAGONAL) @ 46" A.F.F. FOR REMOTE PULL STATION. (FLUSH MOUNT)
- ROUTE MAKE-UP TABLE MIDDLE ELECTRICAL CHASE WIRING TO REAR CHASE FOR POWER CONNECTIONS. SEE DETAIL 3/E1.
- E.C. TO INSTALL IG RECEPT. IN J.B. SUPPLIED W/ POWER CHASE
- SHOW WINDOW RECEPTACLE INSTALLED IN CEILING.
- E.C. TO WORK WITH PROJECT MANAGER TO COORDINATE THE HARDEE'S SUPPLIED ALARM/CAMERA SYSTEM WIRING. THIS WORK SHALL BE DONE PRIOR TO CEILING INSTALLATION.
- EXTEND SIGNAL WIRE FROM UNDERGROUND DETECTOR LOOPS TO FAST TRACK CONTROL UNIT IN OFFICE.
- BRANCH CIRCUIT TO ICE MACHINE REQUIRES 15 AMP, 2 POLE, HACR BREAKER. INSTALL AIR COOLED CONDENSER ON ROOF. ROUTE (2) #12 AND (1) #12 GROUND FROM ICE MACHINE TO CONDENSER. FURNISH AND INSTALL DISCONNECT SWITCH AT EACH LOCATION.
- CONTRACTOR TO COORDINATE J-BOX LOCATION WITH TRANSFER BIN POWER CHASE.
- OWNER WILL FURNISH, AND E.C. SHALL INSTALL CPI ELECTRICAL/CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO BIDS.
- IRRIGATION CONTROL SYSTEM RECEPTACLE MOUNTED AT 90" A.F.F.

- INSTALL 2" GRS CONDUIT FOR IRRIGATION SYSTEM. EXTEND ABOVE CEILING AND 5 FEET BEYOND FOUNDATION. SEE IRRIGATION PLAN IN CIVIL DRAWINGS.
- INSTALL RECEPTACLE FOR ICE DISPENSER WITHIN CABINET AT 24" A.F.F.
- INSTALL SIGNAL J-BOX WITH SS COVER WITH 3/4" RUBBER GROMMETTED HOLE, EXTEND 3/4" CONDUIT TO ABOVE CEILING (FOR FAST TRACK TIMER). SEE AUDIO SYSTEM DETAIL SHEET E-4.
- WALL MOUNTED RECESSED CLOCK RECEPTACLE FOR BUG ZAPPER.
- 1" CONDUIT UP INSIDE WALL TO ABOVE CEILING WITH STUB OUT AT 23" A.F.F. FOR SALES COUNTER P.O.S.
- ELECTRICAL, DATA, AND PHONE OUTLETS IN OFFICE SHOWN FOR REFERENCE ONLY. VERIFY PLACEMENT AND MOUNTING WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 4" SQUARE BOXES WITH SINGLE GANG PLASTER RINGS MOUNTED ON KITCHEN SIDE OF MENU WALL AT 7'-9" A.F.F. POSITION AS SHOWN ON PLAN. PROVIDE 3/4" CONDUIT STUBBED ABOVE CEILING.
- ALL P.O.S. EQUIPMENT TO BE CIRCUITED TO ISOLATED GROUND(IG) CIRCUITS.
- EQUIPMENT WILL HAVE RECEPTACLE MOUNTED IN MAKE-UP TABLE AND WIRED TO A JUNCTION BOX IN MAKE-UP TABLE. E.C. TO CONNECT CIRCUITS TO BUILDING CONTROL SYSTEM, ROUTE THEM DOWN THE WIRING CHASE TO THE JUNCTION BOXES AND MAKE CONNECTIONS. SEE DETAIL 3/E1.
- MAKE-UP TABLE REAR CHASE WIRING FOR POWER CONNECTIONS. SEE DETAIL 3/E1
- FREEZER/COOLER/STORAGE UNIT POWERED BY MANUFACTURER INSTALLED ELECTRICAL PANEL. E.C. TO CONNECT UNIT ELECTRICAL PANEL TO J-BOX FOR A FULLY FUNCTIONAL SYSTEM.
- E.C. TO MAKE FINAL CONNECTIONS IN J-BOX ABOVE CEILING FOR TRANSFER BIN AND UNDERCOUNTER REFRIGERATOR.
- J-BOX FOR CONNECTION TO MANUFACTURER PROVIDED ELECTRICAL PANEL. PRIOR TO ROUGH-IN, FIELD VERIFY INSTALLATION LOCATION. COORDINATE WITH G.C.
- E.C. TO VERIFY POWER REQUIREMENTS AND PLACEMENT WITH OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF FIRE ALARM SYSTEM WHEN REQUIRED BY CODE). FOLLOW MANUFACTURER'S GUIDELINES FOR INSTALLATION AND WIRING.
- E.C. TO PROVIDE AND INSTALL J-BOX AT 7'-0" A.F.F.
- E.C. TO PROVIDE CONDUIT TO ROADSIGN, VERIFY REQUIREMENTS FOR CIRCUIT C-1 WITH CONSTRUCTION MANAGER.

- E.C. TO PROVIDE (2) 1" CONDUIT W/ PULLSTRING TO DRIVE THRU BOOTH FOR AUDIO AND DATA.
- SECURITY MONITOR J-BOX AT 96".
- E.C. TO PROVIDE 1" CONDUIT TO OOB WITH IG CIRCUIT.
- SEE ARCHITECTURAL PLAN FOR LOCATION OF ELECTRICAL SERVICE CONDUIT TO INTEGRATED PANELBOARD.
- E.C. TO PROVIDE & INSTALL HEAT TAPE AROUND CONDENSATE DRAIN LINE IN FREEZER. COORDINATE W/CONSTRUCTION MANAGER & PLUMBING CONTRACTOR.
- CONDUITS FROM DRIVE THRU ORDER STATION TO LOCATION ABOVE CEILING.
- E.C. SHALL ASSIST IN PULLING CABLES FOR DRIVE THRU SYSTEM TO DRIVE THRU ORDER STATION.
- GREASE PUMP OUTLET. COORDINATE WITH INSTALLER FOR EXACT LOCATION.
- INSTALL MENU BOARD OUTLET AND J-BOX AT 109" A.F.F. POSITION OUTLET BOX HORIZONTAL & STUB 2" CONDUIT FROM J-BOX TO 6" ABOVE CEILING WITH PULL STRING.
- PROVIDE J-BOX IN CEILING TO WIRE OPTIONAL D/T HEATER.
- JUNCTION BOX W/ 1/2" C. TO 6" ABOVE CEILING. E.C. TO PULL PHONE CABLE FROM OFFICE TO MODEM IN CPI CABINET. SEE OFFICE ELEVATION ON DWG. A12
- CARBONATOR AT BEVERAGE DISPENSER BAR. E.C. TO INSTALL RECEPTACLE MOUNTED AT 24" A.F.F.
- INSTALL 6x6 J-BOX AT 63" A.F.F. WITH 1 1/2" CONDUIT STUBBED UP 6" ABOVE CEILING WITH PULL STRING, AND FLUSH COVER WITH 1 1/2" OPENING WITH GROMMET.
- 3/4" CONDUIT IN WALL TO 6" ABOVE CEILING WITH STUD OUT AT 48", WITH PULL STRING
- 3/4" CONDUIT IN WALL TO 6" ABOVE CEILING FOR PUBLIC SECURITY MONITOR CABLE.
- MOUNT RECEPTACLE CENTERED UNDER TABLE TOP AT 18" A.F.F. COORDINATE LOCATION WITH DECOR VENDOR
- TO ELECTRONIC READER BOARD.
- PULL #6 INSULATED COPPER GROUND FROM PHONE BOARD TO GROUND BUSS IN CPI PANEL.
- E.C. TO INSTALL WIRING FROM J-BOX ABOVE CEILING TO WIRING J-BOX IN COMMUNITY TABLE.
- E.C. SHALL PROVIDE CONDUIT AND WIRING TO LIFT STATION, COORDINATE WITH CIVIL AND P.C.

- GENERAL NOTES
- E.C. RESPONSIBLE TO SECURE AND PAY FOR ALL PERMITS, ADHERE TO ALL STATE, LOCAL AND NATIONAL ELECTRIC CODES, AND SCHEDULE INSPECTION TIMES AS TO NOT DELAY JOB PROGRESS.
 - COORDINATE ALL WORK WITH OTHER TRADES TO ELIMINATE CONFLICTS ON THE JOB.
 - PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER, AND SUPPLY ALL NEW EQUIPMENT AND ACCESSORIES.
 - SUBMIT SHOP DRAWINGS AND OPERATION MANUALS OF ALL EQUIPMENT AND ACCESSORIES FOR OWNER APPROVAL, PRIOR TO STARTING WORK.
 - ALL LOW VOLTAGE AND LINE VOLTAGE WIRING TO BE IN CONDUIT. ALL INTERIOR CONDUIT TO BE RIGID EMT WITH A MAXIMUM WHIP LENGTH OF 6 FEET.
 - ALL ELECTRICAL PANELS TO BE BASED ON SQUARE "D" OR EQUAL BY G.E. OR ITE SIEMENS WITH BOLT-ON TYPE CIRCUIT BREAKERS.
 - ALL PENETRATIONS OF WALL, ROOF AND CEILINGS TO BE SEALED AS REQUIRED WITH FIRE SEALANT TO MAINTAIN FIRE RATING.
 - MINIMUM SIZE CONDUIT TO BE 1/2" FOR INDIVIDUAL LIGHT FIXTURE CONNECTIONS, AND 3/4" FOR ALL OTHER LOCATIONS.
 - ALL CONDUIT INSTALLED IN CEILING FROM PANEL TO JUNCTION BOX SHALL BE RIGID METALLIC CONDUIT. ALL CONDUIT INSTALLED IN WALLS SHALL BE RIGID METALLIC CONDUIT, WHERE POSSIBLE. MC CABLE MAY ONLY BE USED WITH PERMISSION FROM PROJECT MANAGER.
 - ALL WIRES AND CABLES SHALL BE SOFT-DRAWN COPPER RATED 600 VOLTS, TYPE THHN/THWN. NO WIRE SMALLER THAN #12 AWG SHALL BE USED FOR LIGHTING OR POWER CIRCUITS. STRANDED WIRE SHALL BE USED FOR #8 AWG AND LARGER CONDUCTORS. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:

120/208 VOLT SYSTEM:

NEUTRAL - WHITE
PHASE A OR L1 - BLACK
PHASE B OR L2 - RED
PHASE C OR L3 - BLUE
GROUND - GREEN

- PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 6 FEET IN LENGTH.
- ALL CONDUIT AND WIRE TO BE CONCEALED IN WALLS AND CEILINGS.
- BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG.
- PROVIDE LABELS AND TAGS FOR ALL PANELS AND SWITCHGEAR EQUIPMENT. PROVIDE TYPED DIRECTORY OF ALL CIRCUITS LABELED BY ROOM NUMBER AND NAME.
- RECEPTACLE MOUNTING HEIGHTS SHALL BE 18" A.F.F., UNLESS NOTED OTHERWISE. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR TO CENTERLINE OF OUTLET UNLESS NOTED OTHERWISE.
- CIRCUIT ALL EMERGENCY LIGHT FIXTURES AHEAD OF ANY LOCAL SWITCHING.
- ALL RECEPTACLES AND SWITCHES ARE TO BE IVORY WITH BRUSHED STAINLESS STEEL COVERS.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES AND ORDINANCES. THE CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER TO THE CONTRACTOR.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INQUIRE WITH THE LOCAL CODE AUTHORITY ON ANY FIRE ALARM SYSTEM REQUIREMENTS. IF THE FIRE ALARM SYSTEM IS NOT ADEQUATELY DESCRIBED ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INFORM THE GENERAL CONTRACTOR AND INCLUDE THE COST AS A SEPARATE LINE ITEM IN THE BID. NO ADDITIONAL MONIES SHALL BE AWARDED WITHOUT A SEPARATE LINE ITEM FOR THE FIRE ALARM SYSTEM AT THE TIME OF THE BID.
- CONDUIT SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS AND EQUIPMENT. IF NON-METALLIC CONDUIT IS USED, THEN EQUIPMENT GROUNDING CONDUCTORS SHALL BE RUN ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT IN ACCORDANCE WITH N.E.C.
- DUPLEX RECEPTACLES SHALL BE BRYANT #5351 OR EQUAL BY HUBBELL. SIMPLEX RECEPTACLES SHALL BE BRYANT #5351 OR EQUAL BY HUBBELL. FLOOR RECEPTACLES SHALL BE HUBBELL #5C3091 OR EQUAL. EACH SHALL BE GROUNDING TYPE DEVICES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TRENCHING AND BACKFILLING AS REQUIRED TO BURY ALL SITE LIGHTING, SIGN CIRCUITS, AND DUMPSTER ENCLOSURE. RUN CONDUCTORS IN PVC CONDUIT AT A MIN. DEPTH OF 24" BELOW GRADE WITH YELLOW WARNING TAPE 6" ABOVE CONDUIT. E.C. TO SIZE AND LOCATE CONDUCTORS, PVC CONDUIT, AND CIRCUIT BREAKER BASED ON SPECIFICATIONS ON CIVIL DRAWINGS.
- ALL 125VAC RECEPTACLES IN THE KITCHEN MUST BE GFCI PROTECTED PER NEC.

MAKE-UP TABLE POWER CHASE

ELECTRIC LEGEND

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Hardee's
CHARACTERISTICS
RESTAURANT

HARDEE'S H24-66 PROTOTYPE
3005 ATLANTA HWY.
ATHENS, GEORGIA 30606

REVISIONS	DATE	DESCRIPTION
NO		

POWER PLAN

CHECK SITE ID: _____

DATE: 02/10/2017

SHEET NUMBER: **E1**

DRAWN BY: _____	CHECKED BY: _____	APPROVED BY: _____
VEG	DRS	