



FIVE GUYS FAMOUS BURGERS and FRIES
 Location: 750 E. MAINWAY ROAD, CHARTER, NORTH CAROLINA
 Drawing: ELEC. LEGEND & SCHEDULES

FIVE GUYS FAMOUS BURGERS and FRIES
 Location: 750 E. MAINWAY ROAD, CHARTER, NORTH CAROLINA
 Drawing: ELEC. LEGEND & SCHEDULES

FIVE GUYS FAMOUS BURGERS and FRIES
 Location: 750 E. MAINWAY ROAD, CHARTER, NORTH CAROLINA
 Drawing: ELEC. LEGEND & SCHEDULES

FIVE GUYS FAMOUS BURGERS and FRIES
 Location: 750 E. MAINWAY ROAD, CHARTER, NORTH CAROLINA
 Drawing: ELEC. LEGEND & SCHEDULES

Revisions

ATY COMMENTS 8/9/06

PROJECT DATE: 6/26/06

DRAWN BY: RK

CHECKED BY: AC

Sheet No. E1

LEGEND

SYMBOL	DESCRIPTION
[Panel Symbol]	ELECTRICAL PANELBOARD
[Home Run Symbol]	HOME RUN TO PANEL - 208 VOLT - SEE PANEL SCHEDULE
[Switch Symbol]	DISCONNECT SWITCH BY MECHANICAL OR PLUMBING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION AND CONNECT TO THE LINE SIDE. JUNCTION BOX WITH BLANK COVER - LOCATE AS REQUIRED FOR EQUIPMENT SERVED.
[Single Pole Switch Symbol]	SINGLE POLE SWITCH - 20 AMP, 120 VOLT, 48" AFF TO TOP OF BOX UN.
[Three-Way Switch Symbol]	THREE-WAY SWITCH - 20 AMP, 120 VOLT, 48" AFF TO TOP OF BOX UN.
[Motor Starter Symbol]	MOTOR RATED SWITCH OR MANUAL MOTOR STARTER SUPPLIED WITH OVERLOADS.
[Duplex Receptacle Symbol]	DUPLEX RECEPTACLE 20 AMPS, 120 VAC, MOUNT 16" AFF TO BOTTOM OF BOX UN.
[Quad Receptacle Symbol]	QUAD RECEPTACLE 20 AMPS, 120 VAC, MOUNT 16" AFF TO BOTTOM OF BOX UN.
[Single Receptacle Symbol]	SINGLE RECEPTACLE 120 VAC, MOUNT 16" AFF TO BOTTOM OF BOX UN.
[Weatherproof Box Symbol]	208 VAC RECEPTACLE. SEE PANEL SCHEDULE FOR REQUIRED SIZE. MOUNT 16" AFF TO BOTTOM OF BOX UN.
[Weatherproof Box Symbol]	"WP" SUBSCRIPT - WEATHERPROOF
[Ground Fault Interrupter Symbol]	"GFI" SUBSCRIPT - GROUND FAULT INTERRUPTER
[Ground Fault Interrupter Symbol]	"GF" SUBSCRIPT - ISOLATED GROUND
[Telephone Outlet Symbol]	TELEPHONE OUTLET - MOUNT 16" AFF TO BOTTOM OF BOX UN.
[Data Outlet Symbol]	DATA OUTLET (P.O.S.)
[Television Symbol]	TELEVISION, INDICATES WALL MOUNTED RECEPTACLE AND CABLE OUTLET TO BE INSTALLED.
[Trough Symbol]	2"x4" LAY-IN TROUGH
[Downlight Symbol]	DOWNLIGHT (RECESSED OR PENDANT)
[Emergency Light Symbol]	EMERGENCY LIGHT
[Outdoor Emergency Light Symbol]	OUTDOOR EMERGENCY LIGHT
[Emergency Exit Light Symbol]	EMERGENCY EXIT LIGHT
[Emergency Exit Light Symbol]	EMERGENCY EXT LIGHT
[Transformer Symbol]	LOW VOLTAGE TRANSFORMER FOR SINK/TOILET FLUSH SENSORS
[Infrared Sensor Symbol]	INFRARED SENSOR FOR SINK OR TOILET TIMER
[Keypad Symbol]	SECURITY KEYPAD
[Door Contact Symbol]	SECURITY DOOR CONTACT
[Holdup Button Symbol]	HOLDUP BUTTON
[Holdup Button Symbol]	REPROGRAM HOLDUP BUTTON
[Horn Symbol]	SECURITY HORN
[Alarm Panel Symbol]	FIRE ALARM CONTROL PANEL
[Alarm Panel Symbol]	FIRE ALARM REMOTE ANNUNCIATOR
[Manual Pull Station Symbol]	MANUAL PULL STATION
[Alarm Panel Symbol]	FIRE ALARM HORN/STROBE MIN 110 CD (WP - WEATHERPROOF)
[Alarm Panel Symbol]	FIRE ALARM STROBE MIN 110 CD
[Pull Station Symbol]	ANSUL PULL STATION
[Detector Symbol]	SMOKE DETECTOR
[Detector Symbol]	SMOKE DETECTOR
[Light Symbol]	NIGHT LIGHT
[Ground Fault Symbol]	GROUND FAULT PROTECTED
[Isolated Ground Symbol]	ISOLATED GROUND
[Isolated Ground Symbol]	UNLESS OTHERWISE NOTED

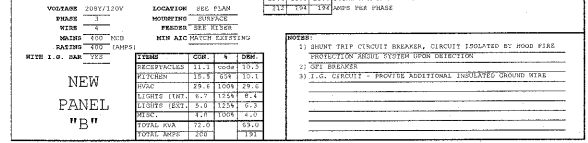
GENERAL NOTES

- INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (PERMITS AND INSPECTION FEES). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
- ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT OR RIGID CONDUIT AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. SCHEDULE 40 PVC CONDUIT MAY BE USED ONLY FOR THE UNDERGROUND AND BRANCH TELEPHONE SERVICE CONDUIT, AND BRANCH TELEPHONE SYSTEM CONDUITS LOCATED BELOW THE FLOOR SLAB ON GRADE OR BURIED ON THE EXTERIOR OF THE BUILDING, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE 1/2" MIN. SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE.
- ALL CONDUCTORS SHALL BE COPPER TYPE THIN/THIN OR THIN/SOLID FOR #10 AWG OR #12 AWG AND STRANDED FOR ALL LARGER SIZES.
- ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB OR ABOVE SUSPENDED CEILING SPACE.
- CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. CONDUITS SHALL BE RUN IN GROUPS. SEAL ALL PENETRATIONS AIR TIGHT AROUND ALL CONDUITS WHEN PASSING INTO MECHANICAL ROOMS.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM.
- FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING FIFTY (50) FEET FROM THE PANEL BOARD, USE #10 AWG MIN.
- ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE.
- THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTABLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIREMENTS AND MANUFACTURER RECOMMENDED SERVING CLEARANCES ARE MAINTAINED.
- COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
- GROUND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER N.E.C.
- ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
- PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.
- CONDUIT SHALL BE LABELED EVERY TEN FEET.
- ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERVICED RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH THE SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
- CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.
- GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250.

P.O.S. NOTES

- FURNISH AND INSTALL A SYSTEM OF 120 VOLT POWER TO ALL POS COMPONENTS, COMPLETE WITH DEDICATED PANELBOARD BRANCH CIRCUITS AND ISOLATED GROUNDING RECEPTABLES.
- FURNISH AND INSTALL A RACEWAY SYSTEM OF 1/2" EMPTY CONDUITS WITH PULLWIRE.
- THE CONDUIT FOR THE RACEWAY SYSTEMS OF EMPTY CONDUITS FOR DATA COMMUNICATION OUTLETS SHALL ORIGINATE AT THE JUNCTION BOXES. BE NO SMALLER THAN 1/2" ELECTRICAL TRADE SIZE AND BE CONTINUOUS. THE DATA COMMUNICATION SYSTEM CONDUIT SHALL BE CONNECTED IN DASH-CHAIN FASHION AND TERMINATE AT THE OUTLET BOX IN THE MANAGER'S OFFICE AND, IN ADDITION, THERE SHALL BE ONE (1) SEPARATE CONNECTION BETWEEN THE SHOP STATION AND THE MANAGER'S OFFICE. ALL CONDUIT TO BE METALLIC. ALUMINUM CONDUIT IS NOT ACCEPTABLE.
- PROVIDE AN ISOLATED GROUNDING BAR IN EXISTING PANELBOARD AS NEEDED.
- PROVIDE A #6 AWG GREEN AND WHITE STRIPED INSULATED SOLID COPPER ISOLATED GROUNDING CONDUCTOR FROM BUILDING MAIN ELECTRICAL SERVICE NEUTRAL TO THE ISOLATED GROUNDING BAR IN PANELBOARD. PROVIDE AN ISOLATED GROUNDING CONDUCTOR IN ALL POS BRANCH CIRCUITS (2-#12, 1-#12 GND, 1-#12 ISO GND, IN 1/2" CONDUIT).
- THE MINIMUM SIZE BRANCH CIRCUIT CONDUCTOR FROM PANELBOARD SHALL BE #12 AWG COPPER AND EACH BRANCH CIRCUIT FROM PANELBOARD SHALL BE MADE UP OF SOLID COPPER CONDUCTORS AND SHALL BE COMPRISED OF A SEPARATE CONDUCTOR FOR EACH OF THE FOLLOWING:
 - LINE - EQUIPMENT GROUND
 - NEUTRAL - ISOLATED GROUND
- THE ISOLATED GROUNDING (I.G.) CONDUCTOR SHALL BE A SINGLE, INSULATED #12 SOLID COPPER, (NOT STRANDED), CONDUCTOR CONTINUOUS AND UNBROKEN THROUGHOUT ITS ENTIRE LENGTH. MAKE BRANCH CIRCUIT CONNECTION AT THE ISOLATED GROUND BAR IN PANELBOARD AND INSTALL SEPARATE GREEN AND WHITE STRIPED GROUNDING CONDUCTOR TO EACH RECEPTACLE.
- A SECOND GROUNDING CONDUCTOR, EQUIPMENT GROUND (E.G.), SHALL BE USED FOR GROUNDING THE CONDUIT AND OUTLET BOXES. **DO NOT** USE THE ISOLATED GROUNDING CONDUCTOR FOR THIS PURPOSE.
- THE CONDUIT CONTAINING THE BRANCH CIRCUIT CONDUCTORS FOR THE POS SYSTEM SHALL NOT BE SHARED WITH ANY OTHER CONDUCTORS, CABLES, ETC., OF ANY DESCRIPTION. THERE SHALL BE NO EXCEPTIONS TO THIS CONDITION.
- FURNISH AND INSTALL 20 AMP, 125 VOLT RATED #0553620S ISOLATED GROUNDING RECEPTACLE, BRANCHED, OF NEMA 5-20R CONFIGURATION WITH ENGRAVED COVERPLATE FOR ALL POS SYSTEM COMPONENTS. COVERPLATE SHALL BE STAINLESS STEEL, AND ENGRAVED AT THE TOP WITH THE LETTERS "POS".
- FURNISH AND INSTALL A 200 LB TEST NYLON PULL LINE IN ALL EMPTY CONDUIT. TAG EACH PULL LINE, AT BOTH ENDS WITH LINDEN TAGS, IDENTIFYING THE OPPOSITE END LOCATION AND USE.
- WHEN BRANCH CIRCUITS AND COMMUNICATION CONDUIT AND CABLE IS INSTALLED OVERHEAD, IT IS IMPERATIVE TO AVOID PROXIMITY WITH ANYTHING THAT CREATES A HIGH AMP DRAW OR CONTAINS ANY "NOISY CIRCUITS" (FLUORESCENT LIGHTING, REFRIGERATORS, ETC.).
- ELECTRICAL CONTRACTOR SHALL PULL COMMUNICATION CABLE PROVIDED BY "POS" SYSTEM SUPPLIER.
- E.C. SHALL COORDINATE WITH OWNER FOR EXACT P.O.S. SYSTEM REQUIREMENTS BEFORE STARTING ANY WORK.
- IF THE LENGTH OF A BRANCH CIRCUIT EXCEEDS 100 FEET, INCREASE ALL CONDUCTORS (INCLUDING GROUND) ONE WIRE SIZE FOR EACH ADDITIONAL 100 FEET OF LENGTH.
- INSTALLED COMMUNICATIONS CABLE THAT IS NOT TERMINATED AT EQUIPMENT SHALL BE IDENTIFIED FOR FUTURE USE WITH A TAG.

CR.#	DESCRIPTION	NOTE	BREAKER	PHASE	AMP.	LOAD (VA)	A	B	C	LOAD BREAKER	NOTE	DESCRIPTION	CR.#
1	208V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		208V 120W 4 BRK (12 3" C. BA	1
2	144V 610 G. LO. (1) 1/4" C. BA				1	144						144V 610 G. LO. (1) 1/4" C. BA	2
3	3 BRK TRIP BREAKER				20	1440						3 BRK TRIP BREAKER	3
4	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	4
5	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	5
6	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	6
7	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	7
8	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	8
9	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	9
10	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	10
11	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	11
12	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	12
13	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	13
14	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	14
15	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	15
16	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	16
17	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	17
18	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	18
19	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	19
20	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	20
21	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	21
22	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	22
23	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	23
24	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	24
25	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	25
26	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	26
27	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	27
28	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	28
29	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	29
30	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	30
31	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	31
32	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	32
33	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	33
34	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	34
35	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	35
36	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	36
37	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	37
38	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	38
39	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	39
40	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	40
41	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	41
42	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		120V 120W 4 BRK (12 3" C. BA	42



CR.#	DESCRIPTION	NOTE	BREAKER	PHASE	AMP.	LOAD (VA)	A	B	C	LOAD BREAKER	NOTE	DESCRIPTION	CR.#
1	SPARE				20	1440						RECEIVING EXTERIOR LIGHTS	1
2	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	2
3	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	3
4	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	4
5	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	5
6	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	6
7	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	7
8	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	8
9	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	9
10	120V 120W 4 BRK (12 AMP)				20	1200	1	1	1	20/12		EXISTING EXTERIOR LIGHTS	10