

ELECTRICAL LEGEND			
	20A DUPLEX RECEPTACLE (WP-WEATHERPROOF, GFI-GROUND FAULT INTERRUPTION)		20A WALL SWITCH (3 - THREE WAY, 4 - FOUR WAY, DPST - DOUBLE POLE SINGLE THROW, D - DIMMER SWITCH, P - W/ PILOT LIGHT)
	20A DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER (42\"/>		EQUIPMENT CONNECTION
	20A DUPLEX ISOLATED GROUND RECEPTACLE		CONDUIT AND WIRE CONCEALED IN WALLS OR CEILING
	SPECIAL PURPOSE RECEPTACLE (NEMA SIZE AS SHOWN) VERIFY CONFIGURATION WITH EQUIPMENT MANUFACTURER		CONDUIT AND WIRE CONCEALED BELOW TOPPING SLAB
	CEILING CORD DROP RECEPTACLE CONNECTOR (NEMA SIZE AS SHOWN)		PLAN NOTE SYMBOL
	RECESSED DOWN LIGHT FIXTURE		HARRIS TEETER PROJECT MANAGER.
	FLUORESCENT LIGHTING FIXTURE		G.C. GENERAL CONTRACTOR
	FLUORESCENT LIGHTING FIXTURE W/ EMERGENCY BALLAST		ELECTRICAL CONTRACTOR
	FLUORESCENT STRIP LIGHTING FIXTURE, 1 LAMP CROSS SECTION		GFI GROUND FAULT CIRCUIT INTERRUPTER
	FLUORESCENT LIGHTING FIXTURE		SURFACE MOUNTED PANELBOARD
	FLUORESCENT LIGHTING FIXTURE W/ EMERGENCY BALLAST		

LOAD ANALYSIS - FOR SERVICE #1 OF 1 480Y/277V, 3 PHASE, 4 WIRE					
LOAD	KVA	NEC DEMAND FACTOR	NEC KVA	AMPS @ 480 VAC	REFERENCE NEC 2005
LIGHTING - Continuous	253.84	1.25	317	382	NEC Article 215, Section 215-3
HVAC EQUIPMENT	280.493	1.00	290	350	NEC Article 440, Part IV Section 440-33 & 220-60
PRODUCT REFRIGERATION	492.94	1.00	492	542	NEC Article 440, Part IV Section 440-33
KITCHEN EQUIPMENT	72.76	0.65	47	57	NEC Article 220, Part II Section 220-60
WATER HEATERS	0	1.00	0	0	NEC Article 422-13, Section 215-3
RECEPTACLES - 1ST 10 KVA	12	1.00	12	12	NEC Article 220, Part II Section 220-44
RECEPTACLES REMAINING	24.3	0.50	12	15	NEC Article 220, Part II Section 220-44
OTHER - Continuous	30.43	1.25	38	46	NEC Article 215, Section 215-3
OTHER - Non-Continuous	152.48	1.00	152	184	NEC Article 215, Section 215-3
TOTAL LOAD			1318	1588	
SERVICE EQUIP. RATING - AMPS				2000A	

EMS CONTACTOR SCHEDULE - (Existing Information Shown in <i>Italics</i> , New Work Shown Bold)							
EMS VO POINT	CONTROL POINT	CONTACTOR DESIGNATIONS	CONTROL CIRCUIT	CONTACTOR TYPE	CIRCUITS CONTROLLED	DESCRIPTION	CONTACTOR LOCATION
MF88-BD4-01	A	A-1,A-2,A-3,A-4,A-5	RP-20	30A/4P	LPA-1,3,6,9,12,15,18,21,24,27,30,33,37,45,48,49,50,51,55,58,64,67	50% Sales Lts (Group A)	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-02	B	B-1,B-2,B-3,B-4,B-5	RP-20	30A/4P	LPA-3,7,11,15,19,23,27,31,35,39,47,50,51,55,58,64,67	50% Sales Lts (Group B)	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-03	H2	H2-1,H2-2	RP-26	30A/4P	LPA-7,8,11,13,15,17,18,21	Account Track Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-02	H1	H1-1,H1-2	RP-26	30A/4P	LPA-8,9,10,12,14,16,18,20	Wine / Beer Track Lighting	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-04	J	J-1,J-2	RP-26	30A/4P	LPA-1,2,3,5,13,33,35	Neon Signs	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-04	E	E-1,E-2	RP-22	30A/4P	LPA-34,36,38,40,44,46	Wash Wash, Dish Washing Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-03	C	C-1	RP-22	30A/4P	LPA-52,54,56,58	Estimator Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-07	F1	F1-1	RP-22	30A/4P	LPA-14,16	Deli / Bakery Prep Area Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-08	F2	F2-1	RP-22	30A/4P	LPA-20	Produce Prep Area Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-01	F3	F3-1	RP-22	30A/4P	LPA-4	Meat / Seafood Prep Area Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-05	P	A1,P-2,P-3	DB-63	30A/4P	DB-44,48,52,56,68,70,74,34,36,76	Hood Control Equipment Under Hood	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
		K-4		60A/3P	PKC-17,19,21	PIZZA OVEN	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1
		P-8		60A/3P	PKC-18,20,22	PIZZA OVEN	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1
MF88-BD7-04	Q	Q-2	DB-63	30A/4P	DB-41	Oven Control Circuit	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
		Q-1	DB-63	60A/3P	DB-37,33	Proofer	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-05	D	D-1, D-2	RP-22	30A/4P	LPA-22,24,26,28,30,32,60	Gondola Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-04	G	G-1,G-2	RP-26	30A/4P	LPA-24,26,28,30,32,36,40	Exterior Signs	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD4-04	N	N-1,N-2,N-3	DB-63	30A/4P	PPC-1,2,3,4,5,6,7,8,9,10,11,12	Produce Track Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-01	L1	L1-1,L1-2,L1-3,L1-4	RP-84	30A/4P	RP-4,5,8,10,13,16,17,21,22,25,26,29,32	Frozen Foods Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-02	L2	L2-1,L2-2	RP-84	30A/4P	RP-11,31,37,41,48	Dairy Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-03	L3	L3-1	RP-84	30A/4P	RP-40	Meat / Seafood Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-04	L4	L4-1	RP-84	30A/4P	RP-52,56,60,64	Beer / Wine Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD7-01	L5	L5-1,L5-2	RP-84	30A/4P	RP-2,14,17,19,23,42	Miscel Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD7-02	L6	L6-1,L6-2	RP-84	30A/4P	RP-8,11,20,24,27,28,31,36	Deli / Bakery Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD7-03	L7	L7-1,L7-2	RP-84	30A/4P	RP-32,35,36,62,66,70,74	Produce Refrigerated Case Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
BR0-BD4-05	M	M-1	RP-22	30A/4P	LPA-6,10,12	Stockroom / Receiving Lts	IN INTEGRATED PANEL SYSTEM CONTACTOR SECTION OF PNL#2
MF88-BD7-07	R	R-1	DB-63	30A/4P	FIELD VERIFY W/ ENCLOSURE	Coffee Bar Lighting Circuits LOCATED IN COFFEE BAR LOAD CENTER IF PRESENT	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1
MF88-BD7-08	S	S-1	DB-63	100A/3P	DB-2,4,6	ASAP BAR	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1
		S-2		60A/3P	DB-4,10,12	CHICKEN DISPLAY	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1
		S-3		30A/4P	DB-7,7A,77	SALAD BAR SCOOP POTS	MOUNT IN AVAILABLE SPACE WITHIN PNL#1 IF NO SPACE AS AVAILABLE, MOUNT IN NEW NEMA 1 HINGED ENCLOSURE ADJACENT TO PNL#1

CONTACTOR SCHEDULE NOTES:

- ALL CONTROL WIRING SHALL BE #12 AWG IN CONDUIT UNLESS OTHERWISE NOTED.
- REFER TO PANEL SCHEDULES CIRCUIT NOTES COLUMN FOR SPECIFIC INFORMATION REGARDING CIRCUIT TO CONTACTOR ASSIGNMENTS.
- TIME SCHEDULE FOR LIGHTING CONTROL FOR EACH CONTROL POINT SHALL BE STAGGERED BY AT LEAST 5 SECONDS TO AVOID HIGH INRUSH CURRENTS.
- CONTACTORS USED FOR LIGHTING CONTROL SHALL BE U.L. LISTED AND RATED FOR USE WITH THE LOAD SERVED.
- 30A/4P CONTACTORS SHALL BE ABB A16-40-00-84
- 60A/3P CONTACTORS SHALL BE ABB A40-30-10-84
- 100A/3P CONTACTORS SHALL BE ABB A75-30-00-84
- NEW CONTACTORS SHALL BE DIN RAIL MOUNTED
- CONTROL RELAYS SHALL BE 120V / 10A CUBE TYPE RELAYS, ABB CR-M120AC2 OR EQUAL.
- CONTACTORS SHALL BE LABELED AS INDICATED IN THE SCHEDULE.
- CONTACTOR CABINETS, CONTACTORS, RELAYS, WIRING, AND OTHER ANCILLARY MATERIALS REQUIRED TO BUILD THE CONTACTOR CABINETS SHALL BE PROVIDED, CONSTRUCTED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

DEMOLITION - DISPOSAL OF MATERIALS COMPLIANCE

THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL ELECTRICAL DEMOLITION WASTE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO LAMPS, BALLASTS, TRANSFORMERS, PANELS, CONDUIT, WIRING, BATTERIES AND OTHER ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LETTER INDICATING ANY SUCH MATERIALS HAVE BEEN DISPOSED OF IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS.

GENERAL PROJECT NOTES

- THE E.C. SHALL VERIFY FIELD CONDITIONS PRIOR TO SUBMITTING BID.
- EXISTING CONDITIONS ON THESE DOCUMENTS ARE BASED ON EXISTING DRAWINGS. THE E.C. SHALL FIELD VERIFY EXISTING CONDITIONS, CIRCUIT NUMBERS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR DISPOSITION. ELECTRICAL EQUIPMENT AND WIRING IN AREAS UNFFECTED BY THE RENOVATION MAY NOT BE SHOWN.
- REMOVE ANY UNUSED CONDUIT AND WIRING, INCLUDING LOW VOLTAGE COMMUNICATION AND EMS WIRING RESULTING FROM THE RENOVATION OR ENCOUNTERED DURING THE RENOVATION OF THE STORE.
- THE E.C. SHALL FULLY COORDINATE WORK WITH ALL OTHER APPLICABLE TRADES.
- PRESERVE DEMOLISHED FIXTURES AND EQUIPMENT FOR REUSE WITHIN OTHER AREAS OF THE RENOVATION. DISPOSE OF UNUSED FIXTURES, EQUIPMENT AND TRASH AS DIRECTED BY THE OWNER.
- MAINTAIN ALL EMERGENCY LIGHTING, FIRE ALARM SYSTEMS AND POWER TO ALLOW FOR UNINTERRUPTED TRADING OF GOODS DURING THE COURSE OF THE RENOVATION. PROVIDE TEMPORARY POWER AND WIRING AS REQUIRED DURING THE RENOVATION.
- COORDINATE CUTTING AND PATCHING OF THE FLOORS WERE REQUIRED WITH THE GC AND OTHER APPLICABLE TRADES.
- WHERE WALL FINISHES ARE BEING RENOVATED OR REPLACED, THE E.C. SHALL REMOVE AND DISCONNECT, PROVIDE BOX EXTENSION, REMOVE AND REPLACE ELECTRICAL DEVICES, DISCONNECTS AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS.
- AS PART OF THIS RENOVATION THE E.C. SHALL VERIFY THE CIRCUIT IDENTIFICATION OF ALL BREAKERS IN ALL AFFECTED BRANCH PANELBOARDS AND SUBPANELS AND PROVIDE NEW TYPE WRITTEN PANELBOARD SCHEDULES IN EACH PANEL. CIRCUIT DESCRIPTIONS FOR MECHANICAL EQUIPMENT (E.G. URUS, HP'S, REFRIG. EQUIPMENT, WATER HEATERS, ETC.) SHALL BE CONSISTENT WITH THE MECHANICAL PLANS AND LABELS ON THE EQUIPMENT.
- THE E.C. MAY REUSE EXISTING CONDUIT AND WIRING IN PLACE. RESULTING FROM THE DEMOLITION FOR NEW CIRCUITS PROVIDED IT IS IN GOOD CONDITION AND MEETS THE REQUIREMENTS FOR THE NEW CIRCUIT AS INDICATED ON THE PANEL SCHEDULE.
- THE E.C. SHALL THOROUGHLY REVIEW THE ARCH, MECHANICAL, PLUMBING, REFRIGERATION, EMS, AND ANY OTHER PLAN WITHIN THE CONTRACT DOCUMENTS TO COORDINATE AND DETERMINE ANY AFFECT THESE PLANS MAY HAVE ON WORK. DO NOT BID FROM A PARTIAL SET. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO REVIEW AND COORDINATE WITH ALL PLANS.

ATTENTION:

THE HARRIS TEETER PROJECT MANAGER SHALL PROVIDE ADDITIONAL BID NOTES WITH INFORMATION REGARDING THE BIDDING AND PURCHASE OF EQUIPMENT FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE HE HAS THIS INFORMATION PRIOR TO SUBMITTING BID.

Harris Teeter, Inc. Lighting Package Bid Note

The following applies to all Harris Teeter projects listed as new locations or remodels.

Harris Teeter, Inc., or HT, has identified EDI of Charlotte, NC as the only approved supplier for HT commercial lighting fixtures and lamps. HT will purchase these products directly from EDI.

All bidding electrical contractors, or EC's, are required to contact EDI to verify a complete bill of material & counts. It is not necessary for EDI to price these materials to each contractor. The contact information for EDI is provided below.

EDI will provide the following to the awarded EC:

- Final Bill of Material
- Cut Sheets (as required)
- Installation Instructions

The awarded EC is responsible for the following:

- Providing a schedule to EDI with required product arrival dates to the job site.
- Receiving, storing, and mounting (up to \$20,000) all lighting fixtures and lamps until the installation is complete.
- Counting all products when received and reporting any damages or shortages to EDI within 48 hours.
- Reporting any product failures to EDI within 48 hours of failure.

Any lighting package warranty issues, as related to product failure only, will be handled by HT from the store's grand opening date (this includes ballast and lamps). Any lighting package warranty issues as related to electrical workmanship will be the responsibility of the EC for a period of 12 months from the store's grand opening date. As long as any problem is documented, post marked, or electronically dated prior to the end of the 12 month period, it shall be corrected at no charge to HT.

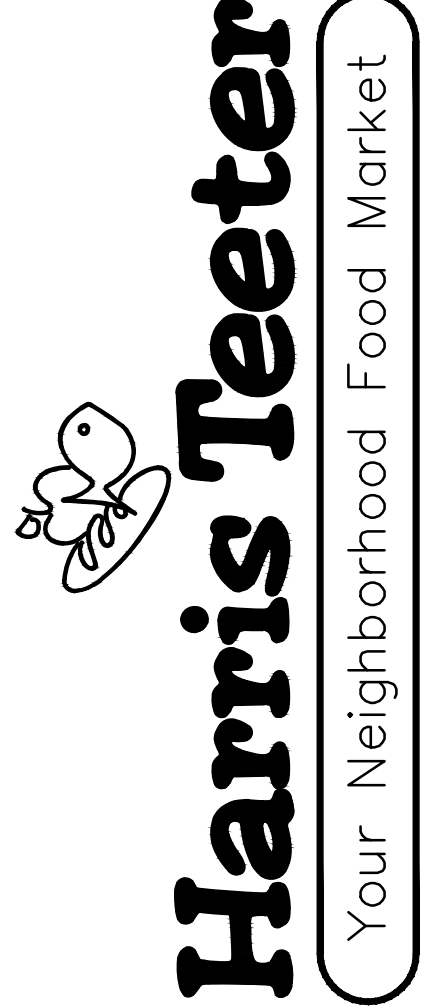
EDI Contact Information
 Primary Contact: Derek Miller
 Office: 704-773-3040
 E-mail: dmiller@edi-nc.com

AFFECTED DISCIPLINES: GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR

Harris Teeter, Inc. Project Managers are asked to please copy the above contents on new cover bid notes until further notice. Please also copy dmiller@edi-nc.com



NOTE: THIS DOCUMENT MAY HAVE BEEN ELECTRONICALLY TRANSMITTED. IF UNSIGNED, IT CANNOT BE FILED FOR PUBLIC RECORD. PUBLIC RECORD FILINGS REQUIRE SIGNED AND SEALED DOCUMENTS.



HARRIS TEETER #441
 SOUTH COLLEGE RD. & SHIPYARD
 WILMINGTON, NC



Electronically Signed By:
 Robert K Stacey
 Using IdemTrust Certificate
 2014.05.05 14:25:58-0400

PROJECT MANAGER
 ROBERT STACEY

DR. BY:
 MRV CDB

REVISIONS	DATE
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DRAWING NAME

ELECTRICAL NOTES, LEGEND, SCHEDULES AND LOAD ANALYSIS