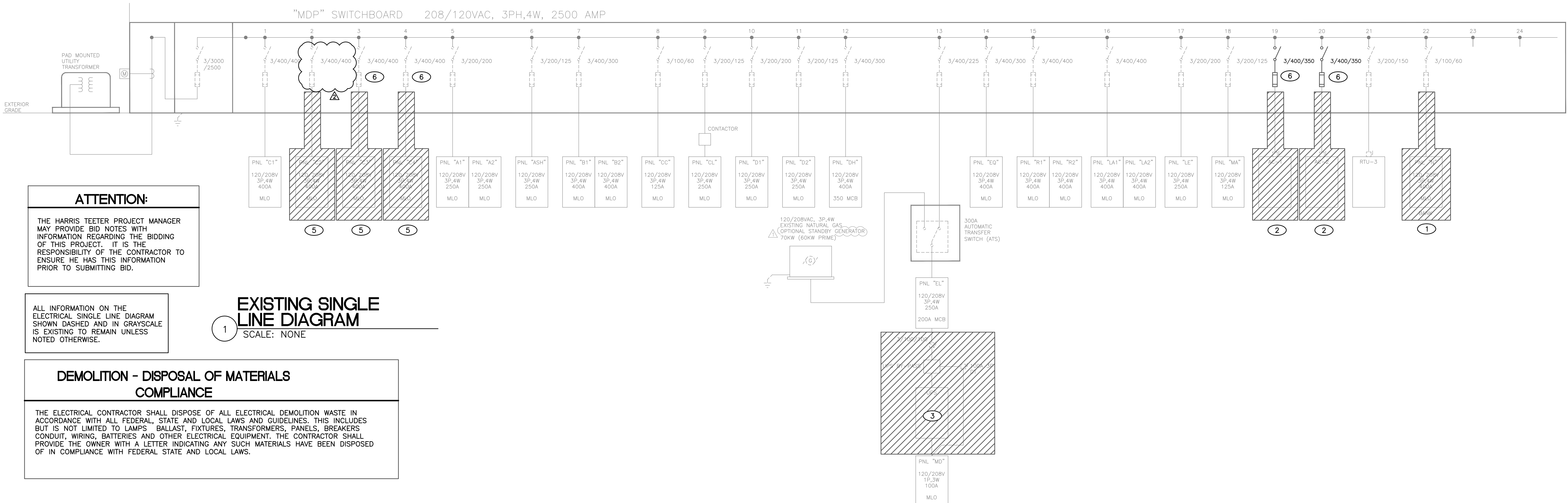


KEY NOTES: (X)

- DEMOLISH BANK PANEL 'N' AND THE CONDUCTORS AND CONDUIT FEEDING THE PANEL. MARK THE FUSED SWITCH AS SPARE.
- DISCONNECT EXISTING CIRCUITS FEEDING ROOF TOP UNIT TO ALLOW FOR THE REPLACEMENT OF CONDUCTORS AND CONDUIT MAY BE REUSED IF THEY MEET THE REQUIREMENTS OF THE NEW UNITS. NOTE: EXISTING CIRCUITS MAY REQUIRE REWORK IN ORDER TO CLEAR THE NEW MOTOR ROOM DOORWAY.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE UPS, BYPASS AND BYPASS DISCONNECT. DEMOLISH THE EXISTING CONDUCTORS BACK TO THE SOURCE. DEMOLISH THE EXISTING 2 POLE 70 AMP BREAKER IN PANEL 'EL' AND REPLACE IT WITH A NEW 2 POLE 100A UL LISTED BREAKER. THE NEW BREAKER SHALL HAVE THE SAME AIC RATING AS THE PANEL.
- DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR.
- DEMOLISH PANEL SERVING MOTOR ROOM COMPRESSORS. REWORK CONDUIT AND CONDUCTORS TO NEW LOCATION TO SERVE NEW REFRIGERATION RACK.
- REPLACE EXISTING FUSE WITH NEW UL LISTED FUSE. FUSE SHALL BE THE SAME TYPE AS CURRENTLY INSTALLED. SEE THE REVISED SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 3-350 MCM WITH 1-#4 GND IN 2-1/2". (THE EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED PROVIDED THEY ARE IN GOOD CONDITION AND MEET THE SPECIFIED REQUIREMENTS IN THIS KEYED NOTE).
- 3-250 MCM WITH 1#4 GND IN 2-1/2". (THE EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED PROVIDED THEY ARE IN GOOD CONDITION AND MEET THE SPECIFIED REQUIREMENTS IN THIS KEYED NOTE).
- 3-3/0 WITH 1#6 GND IN 2". (THE EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED PROVIDED THEY ARE IN GOOD CONDITION AND MEET THE SPECIFIED REQUIREMENTS IN THIS KEYED NOTE).
- 3-250 MCM WITH 1#4 GND IN 2-1/2". (THE EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED PROVIDED THEY ARE IN GOOD CONDITION AND MEET THE SPECIFIED REQUIREMENTS IN THIS KEYED NOTE).
- 2 SETS OF 3-3/0 WITH 1#3 GND IN 2". (THE EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED PROVIDED THEY ARE IN GOOD CONDITION AND MEET THE SPECIFIED REQUIREMENTS IN THIS KEYED NOTE).

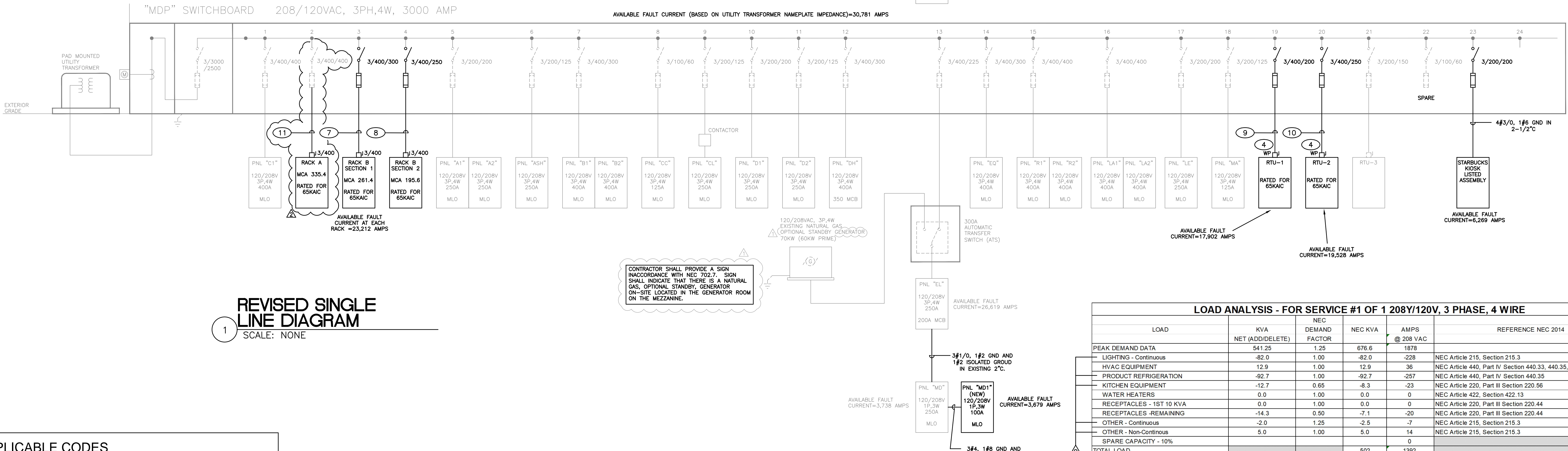


EXISTING SINGLE LINE DIAGRAM
SCALE: NONE

ATTENTION:
THE HARRIS TEETER PROJECT MANAGER MAY PROVIDE BID NOTES WITH INFORMATION REGARDING THE BIDDING OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE HE HAS THIS INFORMATION PRIOR TO SUBMITTING BID.

ALL INFORMATION ON THE ELECTRICAL SINGLE LINE DIAGRAM SHOWN DASHED AND IN GRAYSCALE IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

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 GUIDELINES. THIS INCLUDES BUT IS NOT LIMITED TO LAMPS, BALLASTS, FIXTURES, TRANSFORMERS, PANELS, BREAKERS 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.



REVISED SINGLE LINE DIAGRAM
SCALE: NONE

LOAD ANALYSIS - FOR SERVICE #1 OF 1 208Y/120V, 3 PHASE, 4 WIRE

LOAD	KVA	NEC DEMAND FACTOR	NEC KVA	AMPS @ 208 VAC	REFERENCE NEC 2014
PEAK DEMAND DATA	541.25	1.25	676.6	1878	
- LIGHTING - Continuous	-82.0	1.00	-82.0	-228	NEC Article 215, Section 215.3
- HVAC EQUIPMENT	12.9	1.00	12.9	36	NEC Article 440, Part IV Section 440.33, 440.35, 424.30 & 220.60
- PRODUCT REFRIGERATION	-82.7	1.00	-82.7	-257	NEC Article 440, Part IV Section 440.35
- KITCHEN EQUIPMENT	-12.7	0.65	-8.3	-23	NEC Article 220, Part III Section 220.56
- WATER HEATERS	0.0	1.00	0.0	0	NEC Article 422, Section 422.13
- RECEPTACLES - 1ST 10 KVA	0.0	1.00	0.0	0	NEC Article 220, Part III Section 220.44
- RECEPTACLES - REMAINING	-14.3	0.50	-7.1	-20	NEC Article 220, Part III Section 220.44
- OTHER - Continuous	-2.0	1.25	-2.5	-7	NEC Article 215, Section 215.3
- OTHER - Non-Continuous	5.0	1.00	5.0	14	NEC Article 215, Section 215.3
- SPARE CAPACITY - 10%				0	
TOTAL LOAD			502	1392	
SERVICE EQUIP. RATING - AMPS				2500	
PEAK DEMAND = 433kw / 0.8 = 541.25 kVA					

ELECTRICAL DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE
1	E1.1 SINGLE LINE DIAGRAM, NOTES AND LOAD ANALYSIS
2	E1.2 NOTES, LEGEND AND SCHEDULES
3	E2.0 LIGHTING DEMOLITION PLAN
4	E2.1 LIGHTING RENOVATION PLAN
5	E2.2 ACCENT LIGHTING PLAN
6	E2.3 LIGHTING DETAILS
7	E3.0 POWER DEMOLITION PLAN
8	E3.1 POWER RENOVATION PLAN
9	E3.2 REFRIGERATION POWER RENOVATION PLAN
10	E3.3 ROOF POWER DEMOLITION PLAN
11	E3.4 ROOF POWER RENOVATION PLAN
12	E4.1 PANEL SCHEDULES
13	E4.2 PANEL SCHEDULES
14	E4.3 PANEL SCHEDULES
15	E5.1 ELECTRICAL DETAILS
16	E5.2 ELECTRICAL DETAILS
17	F1.0 FIRE ALARM DEMOLITION PLAN
18	F1.1 FIRE ALARM RENOVATION PLAN

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.

- GENERAL PROJECT NOTES**
- THE E.C SHALL VERIFY FIELD CONDITIONS PRIOR TO SUBMITTING BID.
 - EXISTING CONDITIONS ON THESE DOCUMENTS ARE BASED ON EXISTING DRAWINGS AND FIELD OBSERVATIONS. 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 UNAFFECTED BY THE RENOVATION MAY NOT BE SHOWN.
 - THE E.C SHALL 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.
 - THE E.C. SHALL 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.
 - THE E.C. SHALL 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 COVERPLATES, PROVIDE BOX EXTENSIONS, 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 SWITCHBOARDS AND PROVIDE NEW TYPE WRITTEN PANELBOARD SCHEDULES IN EACH PANEL. CIRCUIT DESCRIPTIONS FOR MECHANICAL EQUIPMENT (I.E. RTU'S, 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.
 - ALL WORK SHALL BE SCHEDULED AS DIRECTED BY THE HTPM AND SHALL MINIMIZE THE DISRUPTION TO THE OPERATION OF THE STORE.
 - THE E.C. SHALL PROVIDE TEMPORARY POWER AS REQUIRED FOR THE RENOVATION AND RELOCATION OF EQUIPMENT, CASES DEVICES, ETC. UNTIL PERMANENT WIRING CAN BE INSTALLED.
 - COORDINATE CEILING TILE REMOVE AND REPLACEMENT W/ THE G.C. FOR ALL NEW AND REVISE CONDUIT AND WIRING WORK ABOVE CEILINGS.

APPLICABLE CODES

BUILDING SIZE (SQ. FT.):	EXISTING SQ FT - 57,739
OCCUPANCY TYPE:	MERCANTILE (1,385 OCCUPANTS)
GOVERNING CODES & REFERENCES:	2017 NEC 2015 NORTH CAROLINA EXISTING BUILDING CODE 2012 IECC
LOCATION:	RALEIGH, NC