

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - IBC (2015 EDITION) AND ALL APPLICABLE LOCAL CODES, ORDINANCES AND REGULATIONS HAVING JURISDICTION, AS STATED IN THE CODE ANALYSIS.
2. DO NOT SCALE THE DRAWINGS. USE CALCULATED DIMENSIONS ONLY. SCALES INDICATED REFER TO SHEETS PRINTED AT 30"x42" SIZE AND ARE NOT APPLICABLE TO REDUCED DRAWINGS.
3. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION AREA, AND FOR THE ADJACENT TENANTS AND PERSONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRIERS TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF THE PREMISES. FIRE EXITS SHALL BE MAINTAINED AT ALL TIMES, AND AT NO TIME BE BLOCKED. THE CONTRACTOR SHALL BARRICADE ALL UNSAFE OR INJURIOUS CONDITIONS.
4. ALL EXISTING FACILITIES, UTILITIES, AND EQUIPMENT SHALL BE PROTECTED BY THE CONTRACTOR DURING THE ENTIRE PERFORMANCE OF THE WORK. AREAS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF CONSTRUCTION DEBRIS. ALL UNUSED MATERIAL AND DEBRIS SHALL BE LEGALLY DISPOSED OF, AWAY FROM THE PREMISES. NO ON-SITE STORAGE OR BURIAL OF DEBRIS SHALL BE ALLOWED.
6. THE CONTRACTOR SHALL CHECK AND VERIFY THE EXISTING CONDITIONS AT THE SITE AGAINST THE DRAWINGS AND SPECIFICATIONS, AND INFORM THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
7. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. MINOR DETAILS OR INCIDENTAL ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR A PROPER AND COMPLETE INSTALLATION OF ANY PART OF THE WORK SHALL BE INCLUDED AS REQUIRED, AS IF THEY WERE INDICATED ON THE DRAWINGS.
9. THE TERM "PROVIDE" SHALL MEAN FURNISH AND INSTALL, AS IT IS USED THROUGHOUT THE NOTES ON THE DRAWINGS AND IN THE SPECIFICATIONS.
10. DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS, AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED AS "TYPICAL" IMPLY ALL CONDITIONS ARE TO BE TREATED SIMILARLY.
11. ALL FIRE-RATED CONSTRUCTION SHALL MEET THE FIRE-RESISTIVE RATINGS AND OTHER REQUIREMENTS OF LOCAL LAWS, ORDINANCES, REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
12. ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION SHALL RECEIVE FIRE STOPPING, FIRE DAMPERS, FIRE SAFING, ETC. TO MAINTAIN THE FIRE-RATED CONSTRUCTION. SUCH PENETRATIONS SHALL INCLUDE, BUT NOT LIMITED TO: TELEPHONE, DATA, LIGHT FIXTURES, JUNCTION BOXES, DUPLEX RECEPTACLES, FIRE ALARM SYSTEMS, ROOM ACCESSORIES, ETC. THE RATINGS MUST CONTINUE AROUND AND BEHIND THE PENETRATION SO AS TO INSURE THE INTEGRITY OF RATED ASSEMBLY.
13. ALL ELECTRICAL OUTLETS, PLUMBING FIXTURES, MECHANICAL GRILLES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS ARE INDICATED TO SET THE GENERAL LOCATION FOR EACH COMPONENT. THE CONTRACTOR SHALL REFER TO ALL DOCUMENTS, INCLUDING, BUT NOT LIMITED TO, THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE COMPLETE LAYOUT OF EACH RESPECTIVE ITEM.
14. ALL NEW PIPING AND ELECTRICAL CONDUITS SHALL BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS OTHERWISE NOTED.
15. ALL OPENINGS IN MASONRY WALLS SHALL BE SUPPORTED BY GALVANIZED STEEL LINTELS UNLESS OTHERWISE NOTED. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.
16. ALL EXPOSED WELDS TO BE GRIND AND MADE SMOOTH.
17. THROUGHOUT THE DURATION OF THE WORK, THE PLUMBING CONTRACTOR SHALL CAP EXISTING SANITARY LINES TO BE UTILIZED.
18. WHERE SURFACE DOOR CLOSERS ARE REQUIRED, THE CONTRACTOR SHALL ALLOW A MINIMUM OF SIX INCHES CLEAR TO ANY PARTITION ON THE HINGE SIDE OF THE DOOR, UNLESS OTHERWISE INDICATED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORD KEEPING ALL EXPOSED CONDITIONS DISCOVERED DURING THE WORK AND ALL AS-BUILT CONDITIONS.
20. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING TO SUPPORT CONSTRUCTION UNTIL PERMANENT SUPPORT IS ERECTED FOR THEIR WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURE TO PREVENT COLLAPSE OF WALLS, SLABS, ETC.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF THE STRUCTURE DURING THE CONSTRUCTION PERIOD AND SHALL TAKE ALL NECESSARY MEASURES TO PREVENT ANY DAMAGE TO THE STRUCTURE, ITS OCCUPANTS AND ITS CONTENTS.
22. ALL WOOD USED SHALL BE PRESSURE TREATED FIRE-RETARDANT LUMBER AND SHALL COMPLY WITH IBC SECTION 2303 (VCC IBC 2015 EDITION).
23. ALL LAMINATED SURFACES SHALL MEET STANDARDS CLASS 6, 0-25 FLAME SPREAD AND SMOKE DEVELOPED (PER ASTM E84 AND UL 723 TUNNEL TEST METHOD).
24. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF THE IBC (2015 EDITION), SECTION 2102.2, TYPE S AND SHALL CONFORM TO ASTM C210.84.
25. 2103.3 GROUT SHALL COMPLY WITH ARTICLE 2.2 OF THE 602/ACI 530.1/ASCE 6
26. LAY-IN ACOUSTICAL TILES SHALL MEET FLAME SPREAD 0-25 (ASTM E84) CLASS 'A' (FED. SPEC. 96-1118) 25 OR UNDER (UL LABEL). PAINT SHALL MEET CLASS 'A' FIRE RATING OVER NON-COMBUSTIBLE SURFACES.
27. THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND FIXTURES. SHALL NOT DEViate FROM THESE DESIGNS, AND SHALL DETERMINE ACTUAL CONSTRUCTION DETAILS AND FABRICATE IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE AND PROCEDURES. ANY DEVIATION FROM THESE DESIGNS SHALL BE REPORTED TO THE ARCHITECT.
28. THE CONTRACTOR SHALL PROVIDE SEALANT JOINTS BETWEEN ALL DISSIMILAR BUILDING MATERIALS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR SCHEDULE OF SEALANTS.

1. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, BETWEEN EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS, PRIOR TO COMPLETING ANY DEMOLITION OR CONSTRUCTION WORK.
2. PERFORM DEMOLITION AS NOT TO COMPROMISE OR ALTER THE STRUCTURAL CAPABILITIES OF THE EXISTING BUILDING OR STRUCTURE. WHERE STRUCTURAL OR LOAD BEARING ITEMS ARE SCHEDULED FOR REMOVAL, COORDINATE DEMOLITION WITH THE STRUCTURAL ENGINEER.
3. SHORING, BRACING, AND GUYING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY AND THE SAFETY OF THE STRUCTURE DURING THE DEMOLITION AND CONSTRUCTION. THIS RESPONSIBILITY INCLUDES ANY AND ALL ENGINEERING FOR SHORING, METHODS AND SEQUENCES OF ERECTION, AND TEMPORARY STORAGE OF MATERIALS RESTING ON NEW CONSTRUCTION.
4. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, MALKWAYS, AND OTHER OCCUPIED AND USED FACILITIES.
5. PROVIDE TEMPORARY ENCLOSURES FOR PROTECTION OF THE EXISTING BUILDING AND ITS CONTENTS, WHILE CONSTRUCTION IS IN PROGRESS AND WHEN PORTIONS ARE COMPLETED, FROM EXPOSURE, FOUL WEATHER, OTHER RELATED CONSTRUCTION OPERATIONS AND SIMILAR ACTIVITIES.
6. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT AS INDICATED ON THESE DOCUMENTS. USE APPROVED METHODS OF DEMOLITION REQUIRED TO COMPLETE THE WORK WITHIN THE LIMITATIONS OF GOVERNING REGULATIONS.
7. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-BEARING CAPACITY OR LOAD DEFLECTION RATIO.
8. WHERE WALLS OR PARTITIONS THAT ARE DEMOLISHED EXTEND ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE UNLESS OTHERWISE NOTED. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE. REMOVE EXISTING FLOOR AND WALL COVERINGS AND REPLACE WITH NEW MATERIALS, IF NECESSARY, TO ACHIEVE UNIFORM COLOR AND APPEARANCE.
9. CONTRACTOR IS RESPONSIBLE FOR MINOR DEMOLITION TO EXISTING WALLS & CEILINGS REQUIRED IN AREAS OF NEW STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OR TEL./COM. WORK AS REQUIRED TO FACILITATE THE SCOPE OF WORK AS DESCRIBED HEREIN.
10. CONTRACTOR SHALL PROVIDE PATCHING AND/OR REPAIR OF EXISTING WALLS & CEILINGS REQUIRED IN AREAS OF NEW STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OR TEL./COM. WORK.
11. PATCH AND REPAIR WORK SHALL MEET OR EXCEED EXISTING FIRE ASSEMBLY RATINGS OF EXISTING WALLS, FLOOR SLABS, OR CEILINGS WHERE APPLICABLE.
12. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH OWNER FOR THE STORAGE AND/OR DISPOSITION OF ANY MATERIALS OR EQUIPMENT, FIXTURES, ETC. AS TO BE SALVAGED. PRIOR TO COMMENCEMENT CONTRACTOR SHALL NOTIFY OWNER OF DEMOLITION AND CONSTRUCTION WORK AS TO AVOID CONFLICTS W/ OWNER ACTIVITIES.
13. EXTENT OF DEMOLITION MAY BE MODIFIED DUE TO UNFORESEEN CONDITIONS IN THE FIELD.
14. REFER TO MEP DRAWINGS FOR DETAILS ON ASSOCIATED ITEMS, INCLUDING BUT NOT LIMITED TO: MECHANICAL UNITS IN CEILING, DUCTWORK, RELOCATING ELECTRICAL PANELS, ALL ELECTRICAL ITEMS, PLUMBING DEMO, & FIRE PROTECTION REQUIREMENTS DURING DEMOLITION. PATCH AND REPAIR ADJACENT FLOOR, WALL AND CEILING SURFACES AS REQ'D.
15. UTILITY SERVICE: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
16. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
17. NO MASONRY STRUCTURE SHALL BE REMOVED WITHOUT INSPECTION BY THE STRUCTURAL ENGINEER FOR TEMPORARY SHORING.
18. ALL DOORS, FRAMES AND HARDWARE SCHEDULED FOR DEMO SHALL BE SALVAGED AND TURNED OVER TO THE OWNER. NO DOORS, FRAMES & HARDWARE SHALL BE DISCARDED PRIOR TO APPROVAL BY ARCHITECT OR OWNER.
19. EXISTING DUCTWORK & PIPING SHALL BE SEALED OFF PRIOR TO DEMOLITION WORK.

ATLANTIC CITY VOTING MACHINE WAREHOUSE

235 DOLPHIN AVENUE
NORTHFIELD, NJ
08225



GENERAL NOTES

SCALE

6

GENERAL DEMOLITION NOTES

SCALE

4

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PROJECT SUMMARY

THE WORK OF THIS PROJECT, AS DEFINED BY THE UNIFORM CONSTRUCTION CODE OF THE STATE OF NEW JERSEY, QUALIFIES AS AN ALTERATION AS IDENTIFIED ON THE CONSTRUCTION DOCUMENTS.

PROJECT INCLUDES NEW PARTITIONS AND ASSOCIATED DOORS, CEILINGS, LIGHTING, FINISHES AS INDICATED ON THESE DRAWINGS

ALL WORK IS TO COMPLY WITH ALL LOCAL CODES HAVING JURISDICTION INCLUDING THE FOLLOWING

APPLICABLE CODES

BUILDING SUBCODE (NJAC 5:23-3.14)
INTERNATIONAL BUILDING CODE/2015, NJ ED (IBC W/NJ EDITS FROM 3.14)
INTERNATIONAL FIRE CODE/2015
ICC/ANSI A117.1-2009

PROJECT DATA

USE GROUP - S2 STORAGE WITH ACCESSORY BUSINESS - (NO CHANGE)
CONSTRUCTION TYPE - 2-B
GROSS PROJECT AREA - +2000 SQ FT
NO CHANGE TO USE OR OCCUPANCY

ALL TRIM AND FINISH MATERIALS SHALL COMPLY WITH FLAME SPREAD AND SMOKE-DEVELOPED PROPERTIES WHEN TESTED IN ACCORDANCE WITH ASTM-E84, AS DEFINED BY IBC SECTION 803 AND TABLE 803.5; DEFINED BY THE FOLLOWING VALUES:

AREA	CLASS	FLAME SPREAD
ROOMS & ENCLOSED SPACES	C	76-200
EXITS	B	26-75
CORRIDORS	B	26-75

INTERIOR WALL AND CEILING FINISHES SHALL HAVE A MAXIMUM SMOKE-DEVELOPED RATING OF 0-450 WHEN TESTED IN ACCORDANCE WITH ASTM E-84.

ALL WOOD USED SHALL BE PRESSURE TREATED FIRE-RETARDANT LUMBER AND SHALL COMPLY WITH IBC SECTION 2303 (2009 EDITION).

ALL LAMINATED SURFACES SHALL MEET STANDARD CLASS A, 0-25 FLAME SPREAD AND SMOKE DEVELOPED (PER ASTM E84 AND UL 723 TUNNEL TEST METHOD).

ALL REQUIRED FIRE TREATED MATERIALS SHALL CONFORM TO IBC 2303, LABELING OF MATERIAL.

Owner
Atlantic County
Office of the Superintendent of Elections
5920 Main Street
Mays Landing, NJ 08330

Architect of Record

SOSH Architects
1020 Atlantic Avenue
Atlantic City, NJ 08401
T: (609) 345-5222
F: (609) 345-7486
www.sosharch.com

MEP Engineering

Concord Engineering
520 South Burnt Mill Road
Voorhees, NJ 08043
T: (856) 427-0200

PROJECT TEAM

SCALE

NTS

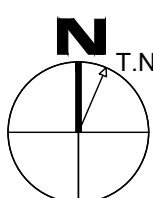
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PROJECT LOCATION —
ATLANTIC COUNTY VOTING
MACHINE WAREHOUSE

235 DOLPHIN AVENUE
NORTHFIELD, NJ 08225

FIRST FLOOR LEVEL -
INTERIOR



LOCATION MAP

SCALE

NTS

1

ATLANTIC COUNTY VOTING
MACHINE WAREHOUSE
ALTERATION

235 DOLPHIN AVENUE
NORTHFIELD, NJ 08225

SUBMISSIONS

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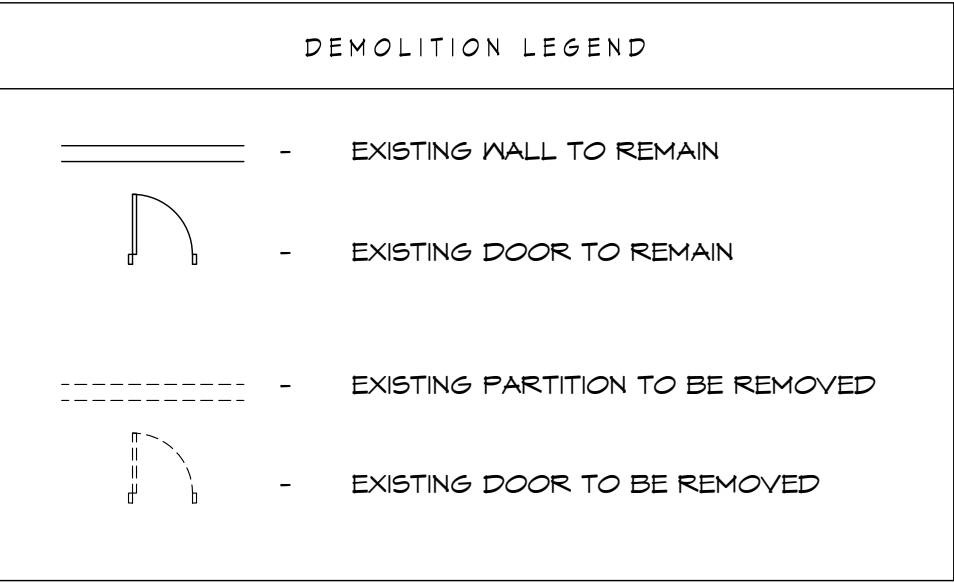
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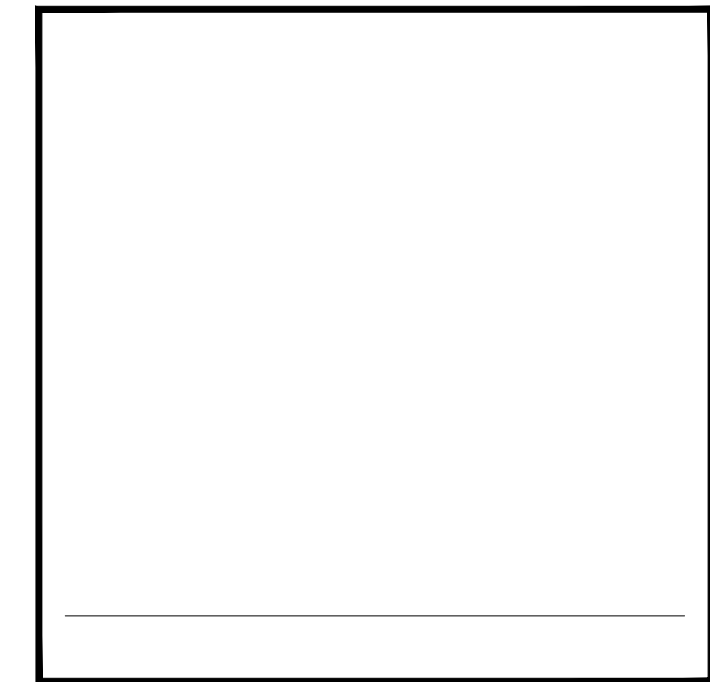
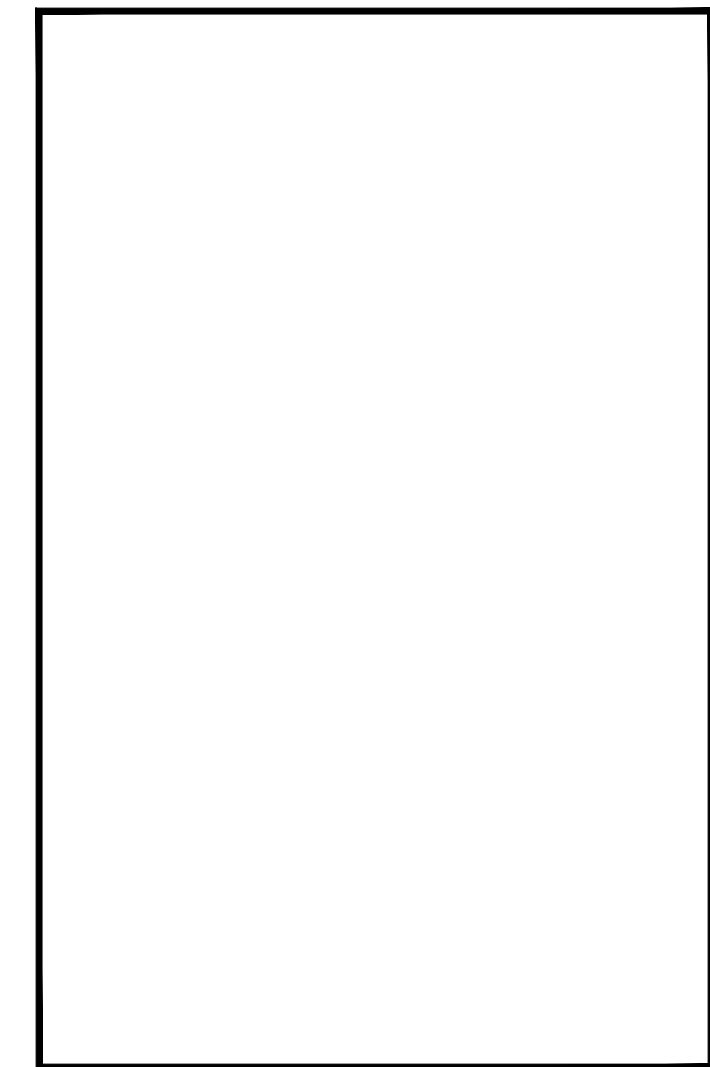
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PROJECT NO.

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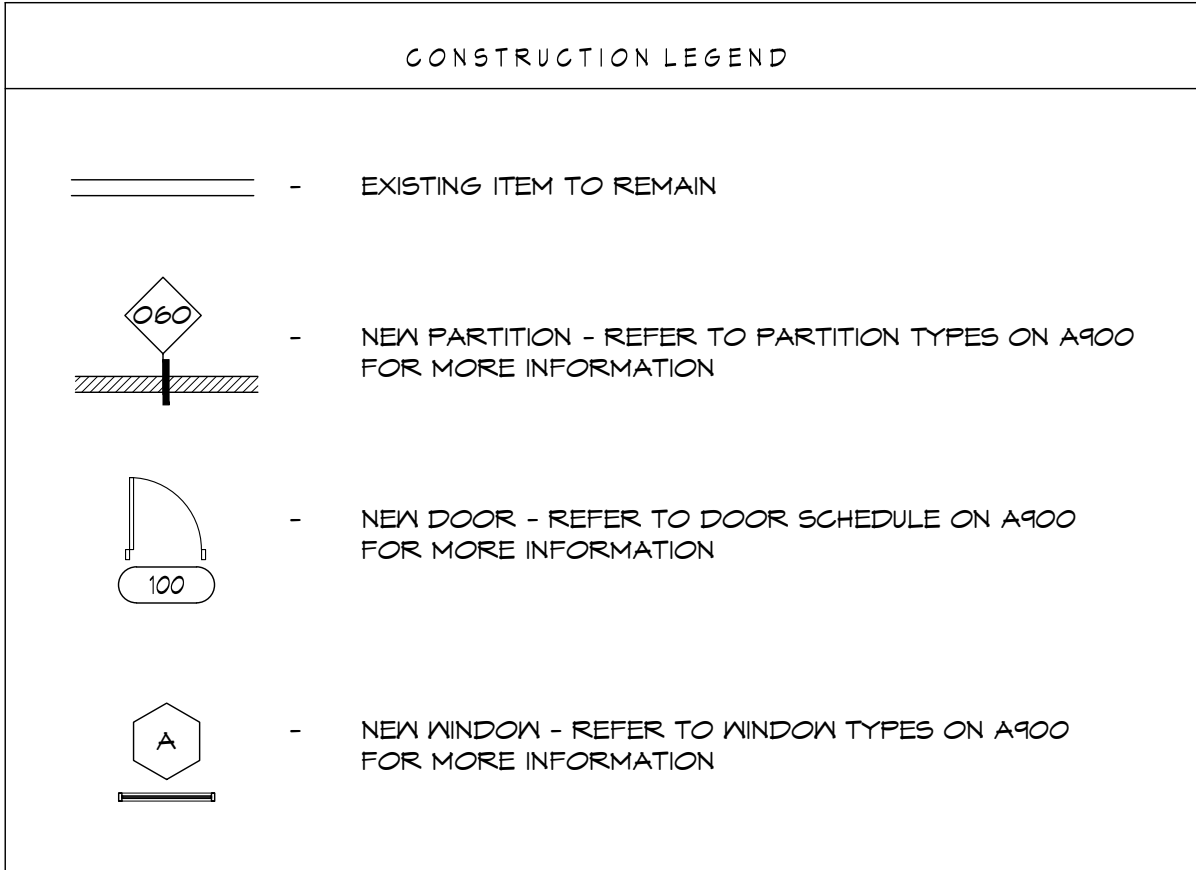
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DRAWING TITLE: FIRST FLOOR DEMOLITION PLAN	
DRAWN BY: REVIEWED BY:	DRAWING NO. AD-100
PROJECT NO. 22013.00.001	



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REVIEWED BY: VDG,KV	
PROJECT NO. 22013.00.001	

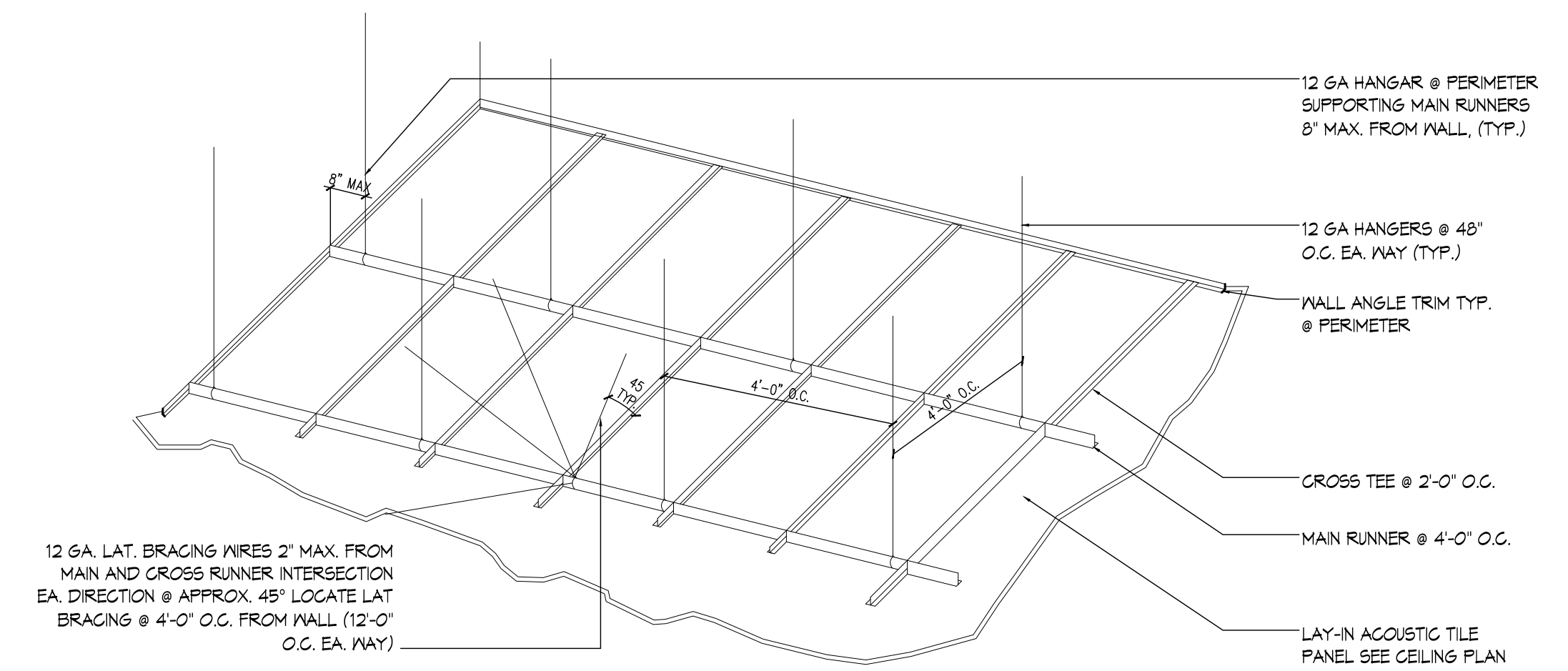


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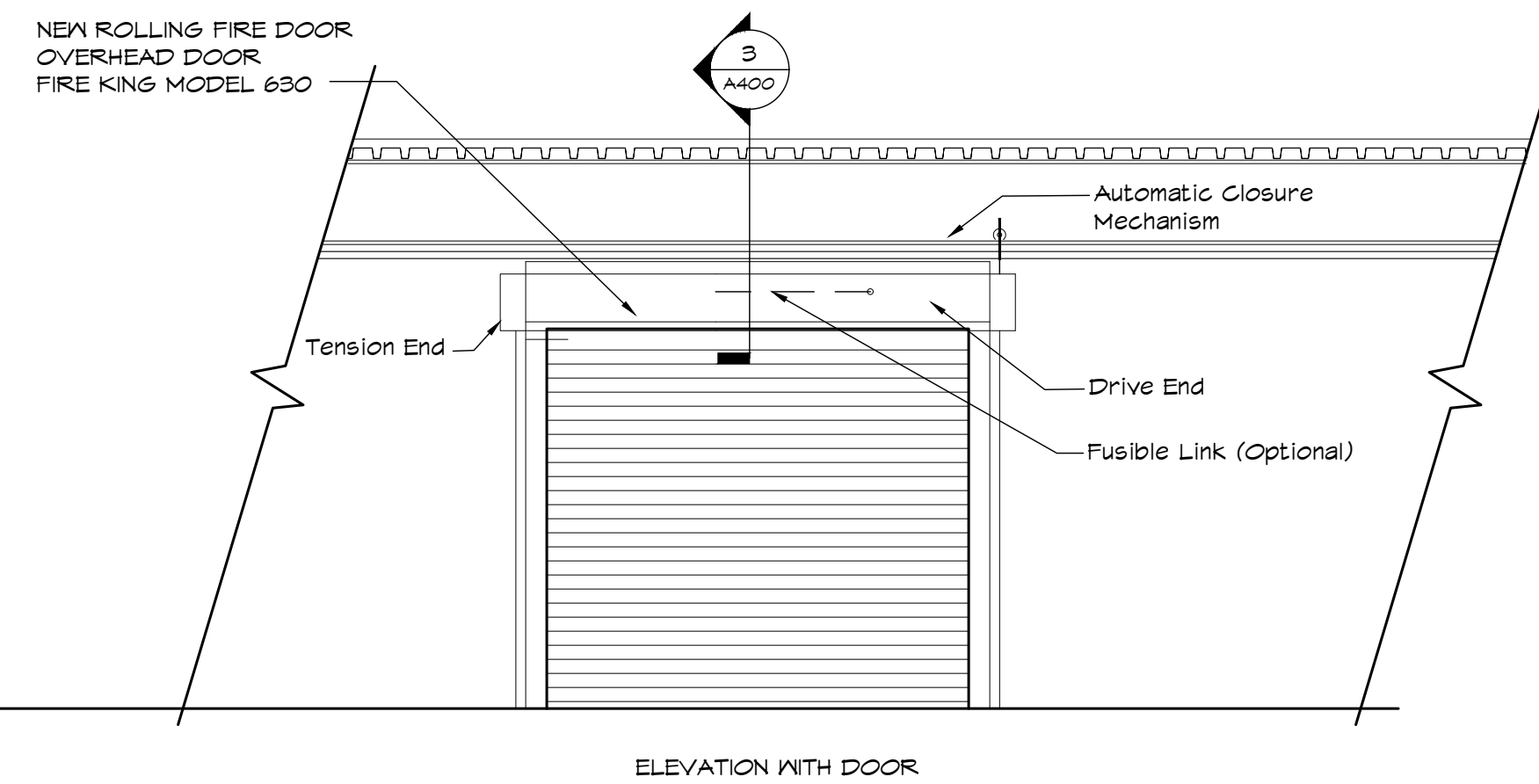
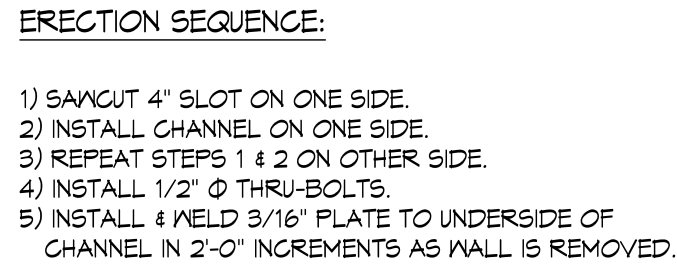
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MACHINE WAREHOUSE
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NORTHFIELD, NJ 08225

DRAWING TITLE: FIRST FLOOR REFLECTED CEILING PLAN		
DRAWN BY: CIBB	DRAWING NO.	
REVIEWED BY: KV, VD		
PROJECT NO. 22013.00.001	A-200	



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DRAWN BY:	DRAWING NO.
REVIEWED BY:	A-400
PROJECT NO. 22013.00.001	

A-400



- ① REMOVE EXISTING ROOFTOP UNIT, DISCONNECT GAS PIPE. EXISTING DUCT SUPPORTS SHALL REMAIN WHERE INDICATED ON PLANS. EXISTING CURB TO REMAIN AND BE REUSED PREPARE CURB FOR NEW UNIT. REMOVE EXISTING ELECTRICAL POWER, DISCONNECT SWITCHES, STRAPS AND ETC. ASSOCIATED WITH EQUIPMENT MENTIONED ABOVE. REMOVE EXISTING DUCT CONNECTED TO THE ROOFTOP UNIT BEING DEMOLISHED TO A POINT WHERE INDICATED ON PLANS.
- ② EXISTING RTU ON ROOF TO REMAIN AND BE REUSED. PROVIDE NEW THERMOSTAT SEE NEW WORK PLANS.
- ③ CONTRACTOR TO REMOVE AND REINSTATE EXISTING CEILING GRID, TILES, LIGHTING, ETC. AS REQUIRED TO REMOVE AND REPLACE THE DUCTWORK ABOVE THE CEILING. REPLACE ANY DAMAGED TILES, GRID, OR LIGHTING.



CONCORD
ENGINEERING 

www.concord-engineering.com
2311 Atlantic Avenue
Atlantic City, New Jersey 08401
(609) 272-9620

Anthony H. Caucci
Professional Engineer
New Jersey Lic. # 44806

235 DOLPHIN AVENUE
NORTHFIELD, NJ 08225

SUBMISSIONS

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DRAWING TITLE:
MECHANICAL
DEMOLITION
FLOOR PLAN

DRAWN BY: KB REVIEWED BY: AHC PROJECT NO. 22013.00.001	DRAWING NO. M-100
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PROVIDE UNIT WITH :
 SINGLE POINT ELECTRICAL CONNECTION WITH INTEGRAL MAIN DISCONNECT SWITCH
 FACTORY TRAINED REPRESENTATIVE FOR OPERATION & MAINTENANCE TRAINING ON SITE.
 DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF
 GALVANIZED STEEL HEAT EXCHANGER.
 CONVENIENCE RECEPTACLE
 E-COAT CONDENSER AND EVAPORATOR COILS.
 ELECTRONIC EXPANSION VALVES.
 UNIT MOUNTED RETURN AIR SMOKE DETECTOR.
 STAINLESS STEEL DRAIN PAN
 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT
 1 YEAR PARTS AND LABOR, 5 YEAR COMPRESSOR PARTS AND LABOR, 10 YEAR HEAT EXCHANGER PARTS
 ROOF CURB / ADAPTER CURB AS REQUIRED.
 2" PLEATED MERV 8 FILTERS
 GAS PIPING KIT

VENTILATION RATE SCHEDULE											
ROOM NAME	AREA (FT ²)	NO. OF OCCUP. OR FIXTURES	MECHANICAL CODE REQUIRED VENTILATION RATE						DESIGN		
			AREA OUTDOOR AIR FLOWRATE (CFM/FFIT)	AREA O.A. REQ'D (CFM)	PEOPLE/FIXTURE OUTDOOR AIR FLOWRATE	PEOPLE O.A. REQ'D (CFM)	AIR DISTR. EFF.	TOTAL O.A. REQ'D (CFM)	TOTAL DESIGN O.A. (CFM)	TOTAL DESIGN AIR (CFM)	EXHAUST AIR (CFM)
RTU-2											
104 - OPEN OFFICE	1,250	6	0.06	75	5	30	1	105	105	1,100	
108 - STORAGE	405	20	0.06	25	5	100	1	125	125	550	
109 - STORAGE	270	1	0.06	15	5	5	1	20	20	250	
	1,925	28						250	250	1,900	

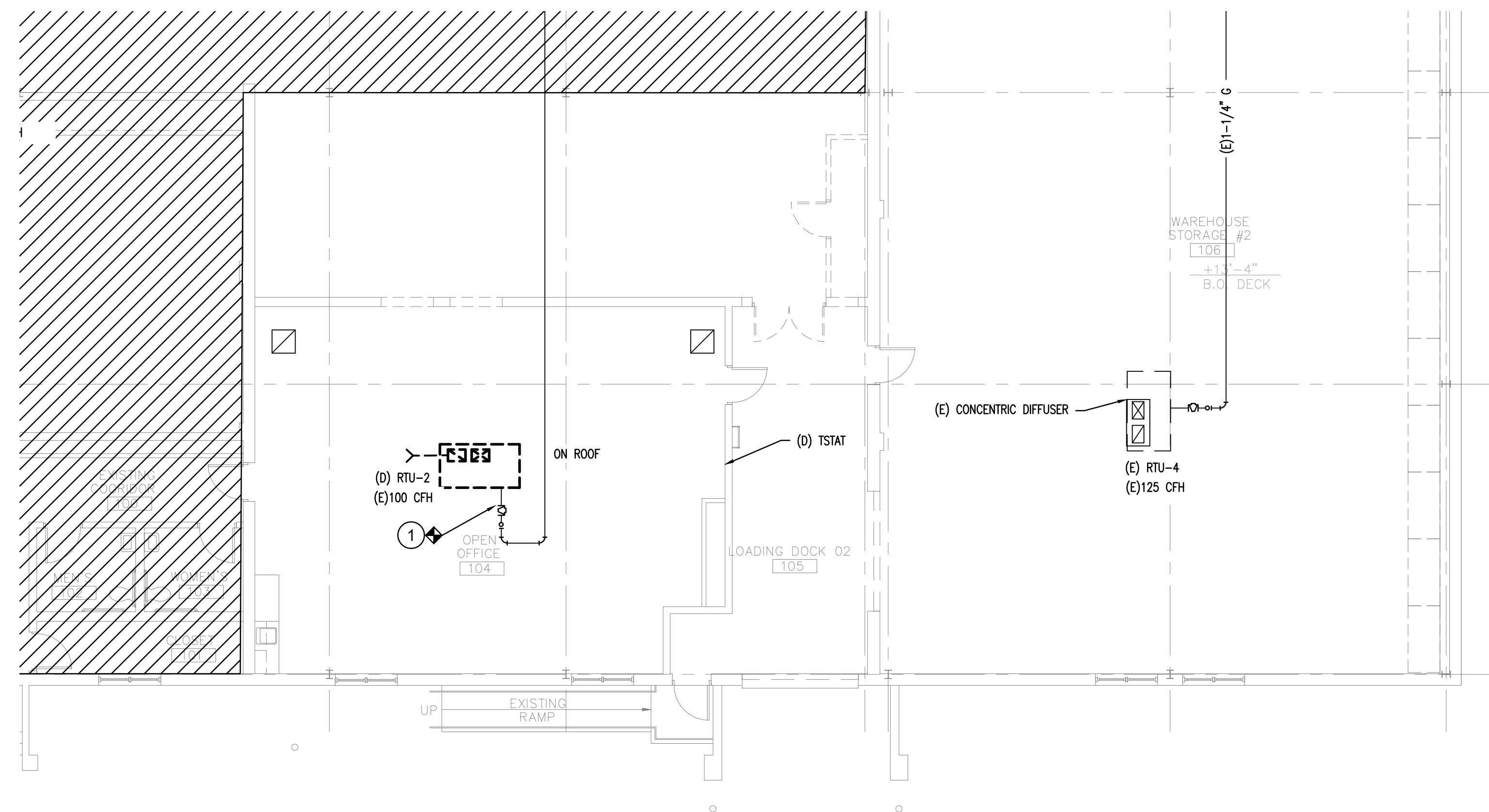


SOSH
— atlantic city, NJ —
philadelphia, PA —

ATLANTIC COUNTY VOTING
MACHINE WAREHOUSE
ALTERATION

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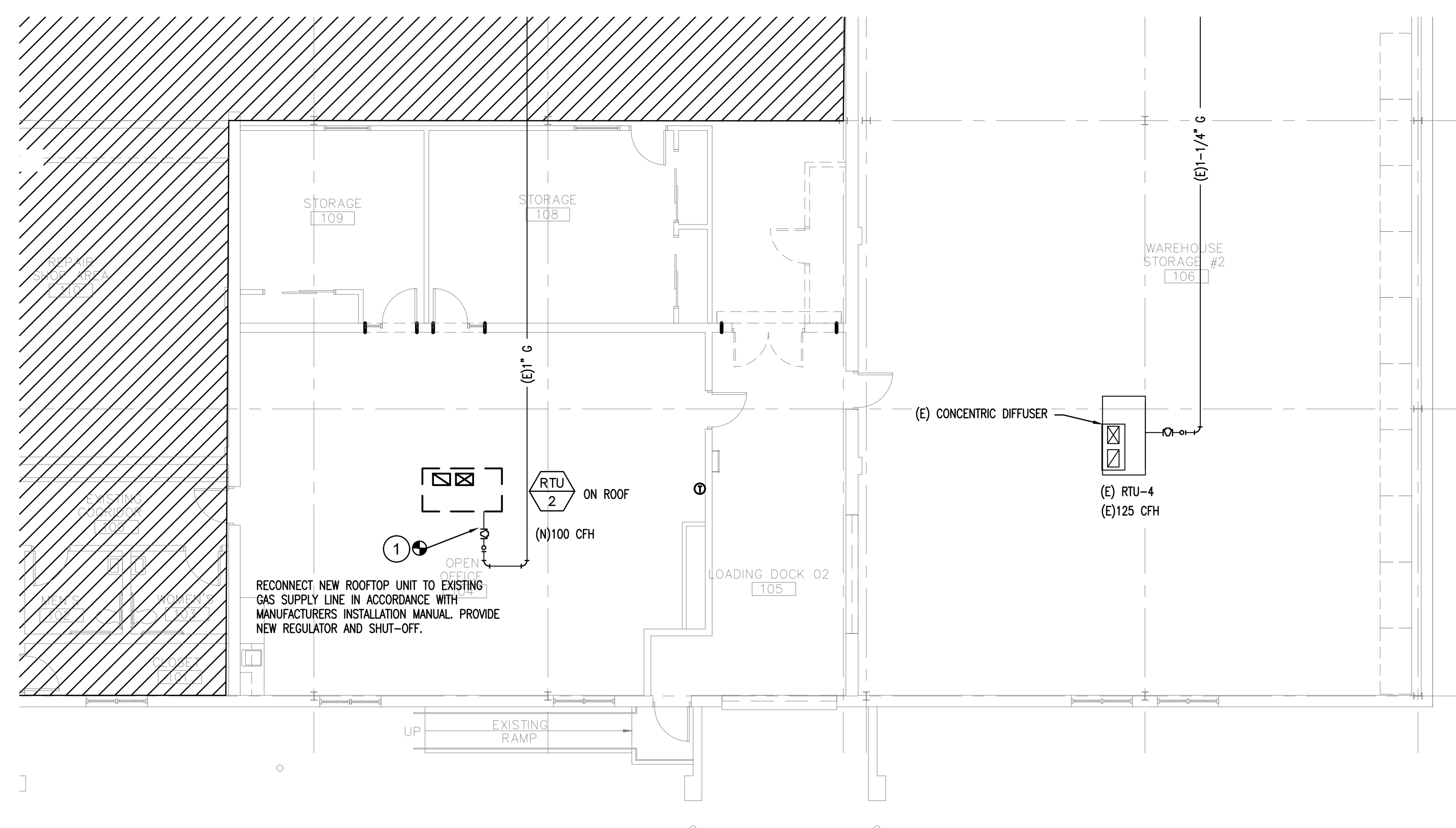
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DRAWN BY: REVIEWED BY: PROJECT NO. 22013.00.001	KB AHC	DRAWING NO. M-300



1 PLUMBING GAS DEMO PARTIAL FLOOR PLAN
MP-1 SCALE: 1/8" = 1'

DEMOLITION OF EXISTING SYSTEM NOTES:

1. **GENERAL NOTES:**
 - A. REFER TO MECHANICAL LEAD SHEET, M-0 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - B. CONTRACTOR SHALL COORDINATE THE REMOVAL OF MECHANICAL EQUIPMENT WITH OTHER TRADES AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS. PARTICULAR ATTENTION SHALL BE GIVEN TO UTILITY SERVICES, ELECTRIC, WATER AND BUILDING UTILITIES.
 - C. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING EQUIPMENT, EXISTING GAS PIPE SIZE & ROUTING AND ALL VALVES AND SPECIALTIES ASSOCIATED WITH THE EXISTING SYSTEM BEFORE INITIALIZING DEMOLITION.
2. **SCOPE OF WORK DEMOLITION NOTES:**
 - ① REMOVE EXISTING ROOFTOP UNIT, DISCONNECT GAS PIPE AND REMOVE PIPE BACK TO GAS SHUTOFF VALVE AT UNIT.



2 PLUMBING GAS NEW WORK PARTIAL FLOOR PLAN
MP-1 SCALE: 1/8" = 1'

NEW WORK SYSTEM NOTES:

1. GENERAL NOTES:
 - A. REFER TO MECHANICAL LEAD SHEET, M-0 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - B. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW MECHANICAL EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS. PARTICULAR ATTENTION SHALL BE GIVEN TO UTILITY SERVICES, ELECTRIC, WATER AND BUILDING UTILITY
2. SCOPE OF NEW WORK NOTES:
 - ① PROVIDE NEW ROOFTOP MANUFACTURER GAS CONNECTION KIT. CONNECT NEW GAS PIPE FROM UNIT TO EXISTING GAS SHUTOFF VALVE OR PREVIOUS UNIT. INSTALL GAS PIPE PER MANUFACTURER'S INSTALLATION MANUAL.

ATLANTIC COUNTY VOTING
MACHINE WAREHOUSE
ALTERATION

235 DOLPHIN AVENUE
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DRAWING TITLE:

MECHANICAL
& PLUMBING
GAS DEMO & NEW
WORK PLAN

DRAWN BY:	KB	DRAWING NO.
REVIEWED BY:	AHC	MP-100
PROJECT NO.		
22013.00.001		

ELECTRICAL SHEET SPECIFICATIONS

GENERAL NOTES

A. CONTRACT PERFORMANCE

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE AS ADOPTED BY THE UNIFORM CONSTRUCTION CODE STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.
2. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER & TO THE SATISFACTION OF THE CONSULTING ENGINEERS, WHO WILL JOINTLY INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO RECTIFY ANY WORK AND MATERIALS WHICH, IN THEIR JUDGMENT, ARE NOT IN FULL ACCORDANCE THEREWITH.

3. EXCEPT FOR CHANGES AS MAYBE SPECIFICALLY APPROVED BY THE CONSULTING ENGINEERS, IN ACCORDANCE WITH ALTERNATES OF OPTIONS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS, COMPLETE IN EVERY WAY AND READY FOR SATISFACTORY AND EFFICIENT OPERATION WHEN DELIVERED TO THE OWNER.

4. WHERE DISAGREEMENTS OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUANTITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.

5. THE DRAWINGS SHOW VARIOUS CONDUIT AND PIPING SYSTEMS SCHEMATICALLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY JUNCTION BOXES, PULL BOXES, SUPPORT AND ACCESSORIES TO MEET APPLICABLE CODES, BUILDING STANDARDS AND FIELD/CONTRACT DOCUMENTS. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS.

6. THE CONTRACTOR COVENANTS AND AGREES THAT HE AND HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES WILL PROVIDE AND MAINTAIN A SAFE PLACE TO WORK AND THAT HE AND THEY WILL COMPLY WITH ALL LAWS AND REGULATIONS OF GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF AND THE CONTRACTOR AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES, ARISING FROM FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES TO PROVIDE AND MAINTAIN A SAFE PLACE TO WORK OR TO COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF.

7. THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES, ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM OR THEM IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH OR PERSONAL INJURY OR PROPERTY DAMAGE OR CONSTRUCTION, CONSTRUCTION TECHNIQUES OR THE USE OF IMPROPER OR INAPPROPRIATE MATERIAL OR TOOLS.

8. THE CONTRACTOR AGREES THAT ANY CONTROVERSY OR DISPUTE TO WHICH THE CONTRACTOR, THE ARCHITECT, AND THE CONSULTING ENGINEER ARE PARTIES SHALL BE SUBMITTED TO ARBITRATION FOR DECISION IN ACCORDANCE WITH THE RULES OF SUCH ASSOCIATION FOR CONSTRUCTION INDUSTRY DISPUTES. ALL SUBCONTRACTORS UNWISSE AGREE TO SUBMIT TO SUCH ARBITRATION ANY DISPUTE BETWEEN OR AMONG THEM, THE CONTRACTOR, THE ARCHITECT AND THE CONSULTING ENGINEERS, AND THE CONTRACTOR AGREES TO MAKE AVAILABLE TO THE CONSULTING ENGINEER ON DEMAND SIGNED COPIES OF THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR AND BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS. THE CONTRACTOR AND EACH SUBCONTRACTOR AGREE THAT BY SUBMITTING A BID WHICH IS ACCEPTED, THIS PARAGRAPH SHALL BE DEEMED A WRITTEN AGREEMENT TO SUBMIT ANY CONTROVERSY THEREAFTER ARISING TO ARBITRATION.
9. ALL WORK SHALL BE DONE IN CONFORMANCE WITH ALL GOVERNING CODES, INCLUDING AMENDMENTS, BULLETINS, ETC., AS WELL AS STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.

10. OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE ALL NECESSARY FORMS, PAY ALL INSPECTION FEES.

11. COORDINATE SCHEDULING OF ALL WORK TO BE PERFORMED WITH OWNER AND/OR HIS AGENT AND INCLUDE ALL NECESSARY PREMIUM TIME REQUIRED FOR SHUTDOWNS, WORK IN OCCUPIED AREAS, ETC.

12. ALL AREAS ASSOCIATED WITH WORK TO BE PERFORMED SHALL BE EXAMINED PRIOR TO BID SUBMISSION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CONDITIONS FOUND DURING INSTALLATION.

13. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING WORK ON WHICH THIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THIS SPECIFICATION, AND REPORT TO THE CONSTRUCTION MANAGER ANY CONDITION WHICH MAY BE AFFECTED BY THE PRESENCE OF THIS WORK. NO "WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BEFORE SUBMITTAL OF A PROPOSAL.

14. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

15. INCLUDE ALL LABOR, MATERIALS, AND APPURTENANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING OF ALL WORK, COMPLETE, AND MAKE READY FOR OPERATION IN A MANNER SATISFACTORY TO THE ARCHITECT AND CONSULTING ENGINEER, ALL WORK SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

16. ALL WORK SHALL BE GUARANTEED FOR TWO (1) FULL YEAR FROM THE DATE WHEN THE OWNER HAS ISSUED A "CERTIFICATE OF SUBSTANTIAL COMPLETION".

B. INSTALLATION PROCEDURE

1. THIS CONTRACTOR'S WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: FURNISHING AND INSTALLATION OF ALL ELECTRICAL WORK, INCLUDING ELECTRICAL AND COMMUNICATIONS OUTLETS IN WALLS AND FLOOR, LIGHTING FIXTURES WITH LAMPS, SWITCHES, DIMMERS, EMERGENCY BATTERY UNITS, ETC., AND ASSOCIATED BRANCH CIRCUIT WIRING, DISCONNECT SWITCH SPECIAL RECEPTACLES, ETC. ALL SPECIAL EQUIPMENT, SUCH AS FANS, AIR CONDITION UNITS, COPIERS, ETC. WILL BE FURNISHED BY OTHERS (U.O.N.) WHERE EQUIPMENT REQUIRES PERMANENT CONNECTIONS SHALL BE PROVIDED WITH APPROPRIATE DISCONNECTING MEANS.

2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN DRAWINGS WITH OTHER TRADES TO ASSURE THAT ALL SYSTEMS ARE COMPLETE AND OPERATIONAL. THIS CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS AND CONDUIT RUNS SUPPLIED AND/OR INSTALLED UNDER THIS SECTION TO AVOID CONFLICTS OR OBSTRUCTIONS TO OTHER TRADES. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY PULL BOXES, VERTICAL SUPPORT BOXES, AND CONDUIT OFFSETS REQUIRED TO ACCOMPLISH THE ABOVE NOTED COORDINATION AT NO ADDITIONAL COST TO THE OWNER, WHETHER OR NOT INDICATED ON PLANS. ALL VERTICAL SUPPORT BOXES, PULL BOXES, ETC. SHALL BE INSTALLED WHERE REQUIRED TO FACILITATE PULLS AND AT CODE REQUIRED INTERVALS, AT A MINIMUM

3. CONDUIT RUNS INDICATED ON PLAN ARE FOR REFERENCE ONLY. EXACT LOCATIONS AND ELEVATIONS SHALL BE DETERMINED AFTER COORDINATION WITH OTHER TRADES. THIS CONTRACTOR SHALL SUPPLY, AS PART OF THEIR SHOP DRAWING SUBMISSION, THE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT AND CONDUIT RUNS INCLUDING PROPOSED LOCATIONS AND MEANS OF SUPPORT AS WELL AS THE EXPECTED LOAD CONCENTRATION AT THE POINTS OF ATTACHMENT. THE ABOVE NOTED INFORMATION SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER BEFORE ANY WORK IS TO COMMENCE.

4. FURNISH AND INSTALL ALL NECESSARY CABLE SUPPORT BOXES, PULL BOXES AND CONDUIT SUPPORTS, WHERE NOTED AND AS REQUIRED BY APPLICABLE CODES. ALL LOW TENSION (COMMUNICATIONS, SECURITY, A/V, ETC.) CONDUIT, FIRE ALARM CONDUIT, ETC., WHICH HAVE RUNS IN EXCESS OF 100 FEET LENGTH AND/OR CONTAINING BENDS IN EXCESS OF 180 DEGREES SHALL BE PROVIDED WITH A PULLBOX. ALL PULLBOXES SHALL BE LABELED FOR THEIR INTENDED USE. DECALS SHALL BE PROVIDED TO INDICATE VOLTAGE LEVEL FOR FIRE ALARM SYSTEM BOXES SHALL BE PAINTED RED, AND ALL WIRE AND CABLE PROVIDED UNDER THIS SECTION SHALL BE TAGGED (WITH FEEDER OR BRANCH CIRCUIT DESIGNATION) AT ALL BOXES WHERE CONDUIT BENDS ARE REQUIRED IN COMMUNICATIONS RACEWAYS. PULL BOXES FOR COMMUNICATION RACEWAYS WILL BE PROVIDED IN STRAIGHT PULLS ONLY. LABEL EACH RACEWAY (PER TECHNOLOGY DEPT. REQUIREMENTS) EVERY 60 FEET HORIZONTALLY AND ON EACH FLOOR VERTICALLY. SUBMIT LABELING SYSTEM FOR REVIEW.

5. UNLESS SPECIFICALLY APPROVED, NO WIRES SHALL BE PULLED IN UNTIL THE CONDUIT SYSTEM IS COMPLETE. NO GREASE OR OIL SHALL BE USED TO FACILITATE THE PULLING OF WIRES; ONLY APPROVED PULLING COMPOUND SHALL BE USED. ALL WIRES SHALL BE CONTINUOUS BETWEEN OUTLET BOXES AND FROM PANELBOARD TO THE FIRST OUTLET. JOINTS SHALL BE IN A STYLE COMMENSURATE WITH THE ENGINEERING DESIGN. THE ENGINEERING DESIGN CAD DRAWINGS OR BACKGROUNDS WILL BE FURNISHED FOR USE TO THIS CONTRACTOR FOR THE PURPOSE OF THIS SUBMISSION (SUBMIT A CAD INDEMNIFICATION AGREEMENT).
6. EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC., SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.

7. NO ELECTRICAL CONNECTIONS SHALL BE MADE TO, OR WORK PERFORMED ON, ENERGIZED EQUIPMENT.

8. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE ACCORDING TO VENDOR APPROVED SHOP DRAWINGS.

9. VERIFY ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION, TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.

10. COORDINATE ALL LOCATIONS AND HEIGHTS OF STUB-UPS AND OUTLETS IN FIELD WITH VENDORS AND/OR FURNITURE MANUFACTURER'S APPROVED SHOP DRAWINGS. ALL RECEPTABLES ARE TO BE ACCESSIBLE.

11. ALL ELECTRICAL SHALL BE ACCESSIBLE BELOW COUNTERS OR BEHIND EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT RECEPTABLES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE LOCAL INSPECTOR.

12. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT PER CODE AND SHALL COORDINATE ALL DISCONNECT SWITCH REQUIREMENTS AND LOCATION WITH THE ELECTRICAL INSPECTOR. VENDORS APPROVED SHOP DRAWING AND FINAL EQUIPMENT LOCATIONS.

13. ELECTRICAL CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION. INCLUDE RE-DISTRIBUTION OF CIRCUITS WITHIN PANELS TO BALANCE WITHIN A 10% WINDOW (+/-5%).

14. ALL CONDUIT AND CABLE "HOMERUNS" SHALL CONSIST OF A SINGLE CIRCUIT PER CONDUIT FOR FEEDERS SERVED BY AN OVERCURRENT PROTECTIVE DEVICE IN EXCESS OF 100 FEET FROM THE PANEL TO THE DEVICE. WIRE AND CONDUIT BRANCH CIRCUITS SHARE A CONDUIT HOMERUN, OCP LESS THAN OR EQUAL TO 20 AMPERES (SINGLE POLE). THERE SHALL BE A MAXIMUM OF ONE (1) CONDUIT FOR EACH CIRCUIT RACEWAY TO THE PANELBOARD. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE DERATED PER NATIONAL ELECTRICAL CODE (LATEST VERSION). COMBINING OF MULTIPLE HOMERUNS (MORE THAN THREE) IN A SING CONDUIT SHALL NOT BE PERMITTED.

15. ALL CONDUIT SHOWN FOR INDOOR WORK SHALL BE EMT (3/4" MINIMUM) WITH TIE-SCREW TYPE COUPLINGS UNLESS OTHERWISE NOTED.

16. PROVIDED IMC CONDUIT WITH THREADED COUPLINGS WHERE REQUIRED BY TYPE.

17. CMC M/CABLE MAY BE UTILIZED FOR BRANCH LIGHTING AND RECEPTACLE CIRCUITS, WHERE PERMITTED BY CODE AND PROVIDED THAT:

- a. IT IS NOT LOCATED WITHIN VIEW, ALL EXPOSED RACEWAYS MUST BE IN CONDUIT.
- b. CONTAINS AN INSULATED GROUND WIRE.

- c. CONDUIT IS RUN TO THE FIRST DEVICE DOWN-LINE OF THE PANEL (I.E. RECEPTACLE, LIGHT FIXTURE, ETC.).

18. INCLUDE ALL LABOR, MATERIALS, AND APPLICATIONS REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING OF ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, IN A MANNER SATISFACTORY TO THE ARCHITECT.

19. WHERE CONDUITS, CABLE TRAY OR OTHER ELECTRICAL EQUIPMENT PENETRATE FIRE OR SMOKE RATED WALLS, PARTITIONS, FLOOR SLABS, ETC., THE SPACE BETWEEN THE SLEEVE OR U/L LISTED, INTRUSION-RESISTANT EQUIPMENT SHALL BE CALKED WITH A U/L LISTED, INTRUSION-RESISTANT, APPROVED FIRESTOP SYSTEM. SPACE BETWEEN THE SLEEVE OR CUTOUT AND THE ELECTRICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CONDUIT SIZE AND DAMMING MATERIAL. THICKNESS FOR THE SYSTEM IS TO BE USED. THE CONSTRUCTION FOR WHICH THE SYSTEM IS TO BE USED, THE FIRESTOP SYSTEM SHALL BE AS MANUFACTURED BY 3M FIRE PROTECTION PRODUCTS OR AS APPROVED. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING OF WALLS AND FLOORS.

20. WHERE WORK IS ONGOING IN ELECTRICAL PANELS THE COVERS ARE NOT TO BE LEFT OFF UNLESS SPECIFICALLY REQUESTED BY THE ARCHITECT. ALL PANEL COVERS SHALL BE REPLACED EACH NIGHT AT THE END OF SHIFT.

21. TEMPORARY POWER FROM EXISTING PANELS FOR LIGHTS, DRILLS, WELDING EQUIPMENT, ETC., SHALL BE LABELED ON THE PANEL AND PRE-APPROVED BY BUILDING OWNER/MANAGER 48 HOURS PRIOR TO INSTALLATION.

C. ARCHITECT'S AND/OR ENGINEER'S REVIEW

1. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO THE START OF ANY WORK. ANY WORK OR EQUIPMENT INSTALLED PRIOR TO REVIEW OF SHOP DRAWINGS AND FOUND TO BE UNACCEPTABLE SHALL BE REMOVED AND MODIFIED AT THE CONTRACTOR'S SOLE EXPENSE INCLUDING ANY RESULTANT SCHEDULING DELAYS EXPERIENCED BY ANY TRADE.

2. THE ARCHITECT AND/OR ENGINEER WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE ARCHITECT'S AND/OR ENGINEER'S REVIEW OF SHOP DRAWINGS AND SAMPLES IS ONLY FOR THE CONVENIENCE OF THE OWNER IN FOLLOWING THE WORK AND DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE ARCHITECT'S AND/OR ENGINEER'S REVIEW SHALL NOT BE CONSTRUED AS A COMPLETE OR DETAILED CHECK OF THE WORK SUBMITTED, NOR SHALL IT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS AND SAMPLES, OR FROM THE NECESSITY OF FURNISHING ANY WORK REQUIRED BY THE CONTRACT DOCUMENTS WHICH MAY HAVE BEEN OMITTED FROM SHOP DRAWING SUBMITTALS.

3. THE REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE REVIEW OF THE COMPLETE ASSEMBLY IN WHICH IT FUNCTIONS. NOTHING IN THE ARCHITECT'S AND/OR ENGINEER'S REVIEW OF SHOP DRAWINGS AND SAMPLES SHALL BE CONSIDERED AS AUTHORIZING:

- a. A DEPARTURE FROM CONTRACT DOCUMENTS OR SPECIFICATIONS, OR
- b. ADDITIONAL COST TO THE OWNER, OR
- c. INCREASED TIME FOR COMPLETION OF THE WORK.

4. NO PART OF THE WORK SHALL BE IN THE FABRICATION SHOP OR IN THE FIELD UNTIL THE ARCHITECT AND/OR ENGINEER HAS REVIEWED THE SHOP DRAWINGS AND SAMPLES FOR THAT PORTION OF THE WORK. THEREAFTER, THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE INDICATED STATUS OF THE REVIEWED SHOP DRAWING.

5. SAMPLES SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED BY THE ARCHITECT AND/OR ENGINEER.

6. TWO WEEKS AFTER AWARD OF CONTRACT SUBMIT A SHOP DRAWING LOG FOR REVIEW WITH SUBMITTAL DATES AND SUBMITTAL TYPE.

7. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND MATERIALS.

D. RECORD DRAWINGS

1. PREPARE AND FURNISH TO OWNER "AS BUILT" PLANS FOR ALL WORK INSTALLED. PROVIDE CAD DRAWINGS AND CAD FILES ON A COMPACT DISC COMPLETED IN THE LATEST VERSION OF AUTOCAD. DRAWINGS SHALL BE IN A STYLE COMMENSURATE WITH THE ENGINEERING DESIGN. THE ENGINEERING DESIGN CAD DRAWINGS OR BACKGROUNDS WILL BE FURNISHED FOR USE TO THIS CONTRACTOR FOR THE PURPOSE OF THIS SUBMISSION (SUBMIT A CAD INDEMNIFICATION AGREEMENT).

2. UPON CONSTRUCTION, KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK AS SHOWN ON DRAWINGS AND THAT WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF PRINTS SHALL BE KEPT AT THE JOB SITE FOR INSPECTION.

3. UPON COMPLETION OF INSTALLATION, SUBMIT ONE SET OF BLACK AND WHITE PRINTS OF THESE "AS-BUILT" RECORD DRAWINGS TO THE CONSULTING ENGINEER FOR REVIEW. AFTER REVIEW BY THE CONSULTING ENGINEER, MAKE NECESSARY CHANGES TO THESE PRINTS AND THEN DELIVER THEM TO THE OWNER FOR RECORD. FINAL PAYMENT WILL BE WITHHELD UNTIL COMPLETION OF "AS-BUILT" DRAWINGS.

4. AS-BUILT DRAWINGS SHALL CONTAIN EXACT ROUTING AND ELEVATIONS OF ALL CONDUIT BANKS, ACTUAL PANELBOARD CIRCUIT BREAKER POLE POSITIONS USED FOR EACH CIRCUIT, AND EXACT LOCATION OF ALL EQUIPMENT. ALL DIMENSIONS SHALL BE REFERENCED TO BUILDING STRUCTURE CENTERLINES.

E. EQUIPMENT SPECIFICATIONS

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, U/L LISTED AND SHALL CONFORM TO ANY ADDITIONAL LABELING, TESTING AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THE GOVERNING AUTHORITIES. SAME SHALL BE GUARANTEED FOR 1 YEAR SUBSEQUENT TO FINAL ACCEPTANCE.

2. ALL EQUIPMENT (ELECTRICAL AND MECHANICAL) SHALL BE SPECIFIED TO HAVE VOLTAGE RATINGS COMPATIBLE WITH THE PROVISIONS OF ANSI C84.

3. ALL CONDUITS FOR LIGHTING AND POWER SYSTEMS SHALL BE 3/4" (MINIMUM).

4. PROVIDE CONDUIT EXPANSION FITTINGS TOGETHER WITH BONDING JUMPER AND SUITABLE SLEEVES WHERE REQUIRED. CONDUIT EXPANSION FITTING SHALL BE INSTALLED IN EACH CONDUIT RUN WHEREVER IT CROSSES AN EXPANSION JOINT IN THE STRUCTURE. THE EXPANSION FITTING SHALL BE INSTALLED ON ONE SIDE OF THE JOINT WITH ITS SLIDING SLEEVE END FLUSH WITH THE AND WITH A LENGTH OF BONDING JUMPER IN THE EXPANSION JOINT EQUAL TO AT LEAST THREE TIMES THE NORMAL WIDTH OF THE JOINT.

5. ALL 15A OR 20A, SINGLE POLE, 120 VOLT OR 208 VOLT BRANCH CIRCUIT RUNS IN EXCESS OF 100 FEET FROM THE PANEL TO THE DEVICE SHALL BE PROVIDED WITH #10 MINIMUM AWG WIRE FOR ITS ENTIRE LENGTH.

6. JUNCTION OR PULL BOXES SHALL BE FURNISHED AND INSTALLED WHERE INDICATED ON PLANS AND WHEREVER ELSE SUCH A BOX MAY BE NECESSARY TO FACILITATE INSTALLATION OR CONFORM TO CODE REQUIREMENTS. COORDINATE LOCATIONS OF SAME WITH ARCHITECT FOR ACCESSIBILITY AND AESTHETIC CONSIDERATIONS. GENERALLY, JUNCTION BOXES AND PULL BOXES SHALL BE INSTALLED IN CONCEALED SPACES. ALL CABLES WITHIN PULL BOXES SHALL BE PROPERLY TAGGED FOR IDENTIFICATION. LABEL ALL CONDUITS WITH FEEDER DESIGNATION AT ENTRY AND EXIT TO THE BOX.

7. INSULATING BUSHING OR INSULATING THROATS SHALL BE INSTALLED ON ALL FITTINGS.

F. PANELBOARDS

1. ALL PANELBOARDS SHALL BE OF THE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED, AS REQUIRED, IN CODE GAUGE STEEL CABINETS, WITH STEEL TRIM, CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, ALL KEYS ALIKE. PROVIDE DUAL CONCEALED HINGED DOORS (DOOR-IN-DOOR CONSTRUCTION) WITH TWO KEYED LATCHES AND WITHOUT BOX OR SCREWS ON THE NON-HINGED SIDE OF THE DOORS WHERE INDICATED ON DOCUMENTS (SEE ARCHITECTURAL DRAWINGS).

2. ALL BUSES, INCLUDING NEUTRAL, SHALL BE ELECTRICAL GRADE HARD-DRAWN COPPER AND SIZED IN CONFORMANCE WITH NEMA STANDARDS. BUSES SHALL BE ARRANGED FOR SEQUENCE PHASING AND LOADS SHALL BE BALANCED AS EQUALLY AS POSSIBLE AMONGST THE THREE PHASES.

3. PANELBOARDS SHALL BE EQUIPPED WITH QUICK-MAKE, QUICK-BREAK FUSED SWITCHES OR BOLT-ON MOLDED CASE CIRCUIT BREAKERS, OF VOLTAGE REQUIRED, AND OF SIZE AND NUMBER OF POLES INDICATED ON THE SCHEDULES.

4. A TYPE WRITTEN DIRECTORY OF 5 INCHES X 8 INCHES WITH METAL FRAME AND LEXAN FACE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR OF EACH CABINET INDICATING THE LOAD SERVED BY EACH CIRCUIT. UTILIZE ARCHITECTURAL DRAWINGS TO INDICATE ROOM NAMES AND NUMBERS OF ALL EQUIPMENTS SERVED. (E.G. 1. RECEPT: ROOMS257-202, 203, 205, 207). UPDATE PANEL DIRECTORIES OF ALL EXISTING PANELS.

5. POWER, LIGHTING AND UTILITY PANELS FOR 120/208 VOLTS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED. SINGLE POLE BRANCHES SHALL BE BOLT-ON TYPE OF AT LEAST 10,000 AMPERES RMS SYMMETRICAL INTERPRETING CAPACITY (OR AS INDICATED ON THE DRAWINGS). MULTIPLE POLE BREAKERS SHALL BE COMMON TRIP, OF THE CAPACITY AND NUMBER OF POLES AS INDICATED IN SCHEDULES. PANELBOARDS SHALL BE EQUIPPED WITH 200K SOLID NEUTRAL BAR AND CONTAIN THE NUMBER OF POLES, OVERCURRENT DEVICES AND BUSED SPACES AS SPECIFIED IN SCHEDULE. PANELBOARDS SHALL INCLUDE A SEPARATE GROUND BUS ISOLATED FROM THE CASING. FUSIBLE TYPE PANELS SHALL CONFORM TO REQUIREMENTS OF ABOVE PARAGRAPH.

6. PROVIDE ISOLATED GROUND BUSES ON STAND-OFF ISOLATORS WHERE INDICATED ON SCHEDULES.

7. PROVIDE NEW CIRCUIT BREAKERS IN PANELS AS REQUIRED TO MEET THE SCHEDULES OR CIRCUIT DESIGN INTENT.

8. GUTTER SPACE SHALL BE INCREASED WHEN CONTAINING FEEDER TAPS.

9. PROVIDE WIRE TROUGHS WHERE ACCESS TO THE FLOOR SYSTEM IS REQUIRED.

10. WHERE SPACE LIMITATIONS REQUIRED REDUCED PANEL WIDTH, PROVIDE VERTICAL (SINGLE ROW) BREAKER TYPE PANELS AS PART OF THE INITIAL SCOPE PRICE.

11. ALL PANEL BUS BARS SHALL CONSIST OF A MINIMUM 1/8 INCH DEPTH COPPER BUS.

12. PROVIDE SHUNT TRIP MAIN CIRCUIT BREAKERS FOR ALL PANELS TO BE CONTROLLED BY BREAKGLASS STATIONS, ANSUL SYSTEM(S) KITCHENS OR SERVERIES) ETC.

13. PROVIDE GFI TYPE BRANCH CIRCUIT BREAKERS FOR ALL CIRCUITS SERVING KITCHENS, HEAT TRACING CIRCUITS, H-WATT CIRCUITS, FREEZE PROTECTION CIRCUITS, WINDOW WASHING CIRCUITS, OUTDOOR CIRCUITS, ETC. AND AS REQUIRED BY CODE.

G. FUSES

1. ALL FUSES SHALL BE OF THE SAME MANUFACTURER, BUSSMAN, OR AS APPROVED, AND SHALL BE INSTALLED, AS REQUIRED, IN ALL CUTOUTS, PANELS AND SAFETY SWITCHES.

2. UNLESS OTHERWISE NOTED, FUSES SHALL BE BUSSMAN TYPE LPN, LPS OR KRF-C.

H. SECONDARY TRANSFORMERS

1. PROVIDE DRY TYPE 100% NON-LINER, NON-SINUSOIDAL TRANSFORMERS OF QUANTITY AND KVA RATING AS SHOWN ON DOCUMENTS, 3# 480 VOLT-DELTA-208Y/120 VOLT, 3# 4 W. FURNISHED W/TWO 2-1/2X TAPS ABOVE AND FOUR 2-1/2X BELOW NORMAL 480V PRIMARY FOR TRANSFORMERS. THE NEUTRAL OF THE TRANSFORMERS SHALL BE BROUGHT UP TO A LUG AND BOLT INSIDE OF CASE SO THAT THE NEUTRAL CAN BE GROUNDING EXTERNALLY. ALL REQUIREMENTS SHALL BE IN ACCORDANCE WITH UL 1561 AND UL 506.

2. TRANSFORMERS SHALL BE SPECIFICALLY DESIGNED TO SUPPLY RATED CURRENT WHEN LOADED WITH NONLINEAR LOADS AND MEET THE MINIMUM REQUIREMENTS OF EPACT2005 DEPARTMENT OF ENERGY'S STANDARD LEVEL 3 (CSL-3).

3. A COPPER ELECTRONIC SHIELD SHALL BE INSERTED BETWEEN THE PRIMARY AND SECONDARY WINDINGS TO ATTENUATE HIGH FREQUENCY HARMONICS.

4. THE SECONDARY NEUTRAL SHALL BE TWICE THE AMPACITY OF THE SECONDARY PHASE CONDUCTORS, AND THE PRIMARY WINDING CONDUCTOR SHALL BE OF SUFFICIENT SIZE TO LIMIT THE TEMPERATURE RISE TO ITS RATED VALUE, EVEN WITH THE CIRCULATING 3RD HARMONIC CURRENT.

5. THE TRANSFORMER SHALL UTILIZE AN INSULATION SYSTEM THAT HAS BEEN PROPERLY TEMPERATURE CLASSIFIED AND LISTED BY U/L TRANSFORMERS SHALL HAVE A 220 CLASSIFICATION AND A 150 DEGREE CELSIUS WINDING TEMPERATURE RISE AT FULL LOAD.

6. ALL TRANSFORMERS SHALL HAVE VIBRATION ISOLATORS THAT ISOLATE THE CASE FROM THE CORE AND COIL ASSEMBLY. TRANSFORMERS SHALL BE CAPABLE OF FLOOR, WALL OR CEILING (TRAPEZE) MOUNTING, AS INDICATED ON THE DRAWINGS. TRANSFORMERS SHALL BE TRAPEZE MOUNTED U.O.N.
7. VIBRATION ISOLATORS EQUAL TO MASON INDUSTRIES TYPE HD AND TYPE CD FOR TRAPEZE AND FLOOR MOUNTING RESPECTIVELY, SHALL BE INSTALLED BETWEEN CASE AND TRAPEZE OR FLOOR.

8. PROVIDE COPPER GROUND CONDUCTOR, WITH EXOTHERMIC (CADDWELD OR AS APPROVED) TO BUILDING STRUCTURE. ELECTRICAL CONTRACTOR GROUND SHALL BE CODE MINIMUM OR AS INDICATED ON THE DRAWINGS. ALL FINAL CONNECTIONS TO TRANSFORMER CASING SHALL BE MADE USING A MINIMUM 24 INCH LENGTH OF 1/2 INCH ELEXIS CONDUIT WITH GROUND BUSHING. ALL CONDUCTORS SHALL BE IN CONDUIT.

I. GENERAL

1. OUTLET BOXES SHALL BE CODE GAUGE GALVANIZED STAMPED STEEL, 4 INCH SQUARE BY 1-1/2 INCHES DEEP FOR POWER AND 4 INCHES SQUARE BY 2-1/2 INCHES DEEP FOR COMMUNICATION. FIRMLY ANCHORED IN PLACE. BOX VOLUME SHALL BE AS REQUIRED BY GOVERNING CODES WITH BLANK COVERS PROVIDED FOR ALL BOXES USED FOR JUNCTION PURPOSES. SEM BOXES SHALL BE USED WHERE DIMENSIONAL RESTRAINTS EXIST AND WHERE THE CONTRACTOR HAS OBTAINED PERMISSION FROM THE ENGINEER. MULTI-GANG BOXES SHALL BE PROVIDED WITH EXTENSION COLLARS MOUNTED WITHIN 1/8 INCH OF OUTER SURFACE. WHERE OUTLET BOXES ARE SHOWN FOR FLUSH MOUNTED DEVICES, A SINGLE GANG PLASTER RING SHALL BE PROVIDED, AND MOUNTED WITH 1/8 INCH OF OUTER SURFACE.

- DISCONNECT SWITCHES SHALL BE OMGB FUSIBLE OR NONFUSIBLE WITH CURRENT AND VOLTAGE RATING AS INDICATED ON PLANS. SWITCHES SHALL BE HORSEPOWER RATED, ENCLOSED TYPE, SUITABLE FOR PADLOCKING IN OPEN POSITION.

3. HORSEPOWER RATED THERMAL SWITCHES (BRYANT OR AS APPROVED) SHALL BE USED FOR ALL MOTOR CIRCUITS. ELECTRICAL CONTRACTOR SHALL INSTALL WHERE APPLICABLE TOGGLE SWITCHES FOR USE AS DISCONNECTED. THESE SWITCHES SHALL BE "T" RATED FOR RESISTANCE LOADS AND "M" RATED FOR MOTOR LOADS.

4. STANDARD DUPLEX CONVENIENCE RECEPTABLES SHALL BE SPECIFICATION GRADE NEMA 5-15R, 2-20R, 2 POLE, 3 WIRE, GROUND, 15 OR 20 AMPERE RATED FOR DEVICES SHOWN ON A 15 OR 20 AMPERE CIRCUIT (RESPECTIVELY). PROVIDE DEVICES RATED TO THE EQUIPMENT CIRCUIT BREAKER SIZE UNLESS OTHERWISE NOTED. GROUND FAULT TYPE SHALL BE USED WHERE REQUIRED BY GOVERNING CODES INCLUDING ALL DEVICES SHOWN TO BE WITHIN SIX FEET OF A SINK/WATER.

- SWITCHES SHALL BE FLUSH, SPECIFICATION GRADE, QUIET TUMBLER TYPE, GROUND, BEHIND COMMON PLACE WITH BARRIER BACK BOX WHERE REQUIRED BY CODE FOR MULTIPLE CIRCUITS GREATER THAN 250 VOLTS. SINGLE POLE SWITCHES SHALL BE 20 AMPERES, 277 VOLT.

6. DEVICE TYPES, MANUFACTURES AND COLORS SHALL BE SPECIFIED BY THE ARCHITECT. IF NO SPECIFICATION HAS BEEN PROVIDED, THIS CONTRACTOR SHALL OBTAIN ALL INFORMATION REGARDING THE ABOVE FROM THE ARCHITECT PRIOR TO THE SUBMISSION OF BID, OR SHALL INCLUDE THE ABILITY TO FURNISH ANY MANUFACTURER SELECTED BY THE ARCHITECT DURING THE SHOP DRAWING SUBMISSION PHASE.

7. DEVICE PLATES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE EXACT COLOR WITH ARCHITECT.

8. ALL CABLES SHALL BE COPPER OR ALUMINUM WITH THWN OR THHN INSULATION FOR HORIZONTAL APPLICATIONS AND XHHW FOR VERTICAL APPLICATIONS (I.E. WHEN PASSING THROUGH A CABLE SUPPORT BOX), EMPLOYED AT THE 75% CODE RATED AMPACITY, NO SMALLER THAN No.12 AWG SHALL BE USED UNLESS SPECIFICALLY NOTED ON PLANS. COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS. DERATE ALL CABLES PER LATEST VERSION OF THE NATIONAL ELECTRICAL CODE.

9. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER OR ALUMINUM.

10. ALL CABLING FURNISHED FOR INSTALLATION EXPOSED (NOT IN AN ENCLOSED RACEWAY) IN AN AIR PLENUM CEILING OR FLOOR SHALL BE APPROVED FOR USE BY GOVERNING AUTHORITIES, AND SHALL CONFORM TO UL 910 WITH A MINIMUM OF 125 DEGREES CELSIUS RATED JACKED.

11. ALL SUPPLIED LUGS FOR EQUIPMENT REQUIRING HARD-WIRED CONNECTIONS, ETC. SHALL BE DOUBLE INDENT, 2 BOLT HOLE, LONG BARREL AND COMPRESSION TYPE. PROVIDE DOUBLE INDENT "HEXAGONAL" COMPRESSION DIES AND TOOL (T & B OR BURNDY OR AS REVIEWED). MECHANICAL LUGS, SINGLE INDENT COMPRESSION TOOLS AND UNIVERSAL DIES SHALL NOT BE PERMITTED. ALL COMPRESSION TOOLS AND DIES SHALL BE MANUFACTURED BY THE LUG VENDOR.

12. ALL SUPPLIED IN-LINE SPUR CONNECTORS, "T" CONNECTORS, ETC., SHALL BE DOUBLE INDENT (PER CONDUCTOR), LONG BARREL AND COMPRESSION TYPE. PROVIDE DOUBLE INDENT "HEXAGONAL" COMPRESSION DIES AND TOOL (T & B OR BURNDY OR AS REVIEWED). MECHANICAL CONNECTORS, SINGLE INDENT COMPRESSION TOOLS AND UNIVERSAL DIES SHALL NOT BE PERMITTED. ALL COMPRESSION TOOLS AND DIES SHALL BE MANUFACTURED BY THE CONDUCTOR VENDOR.

13. PROVIDE LOCAL DISCONNECTS FOR ALL MOTORS, HARD-WIRED PANTRY/KITCHEN EQUIPMENT AND HOT WATER HEATERS. WHETHER OR NOT SHOWN ON PLAN, DISCONNECTS SHALL BE SIZED PER THE OVERCURRENT PROTECTION AND LOCATED PER THE ENGINEER AND ARCHITECT.

14. PROVIDE A 120 VOLT DEDICATED CIRCUIT FOR EACH CONDENSATE PUMP FOR ALL AC UNITS. COORDINATE WITH THE ENGINEER, THE PANEL AND BREAKER POSITION, PRIOR TO INSTALLATION.

15. ALL EQUIPMENT MATERIALS SHALL BE NEW, U/L LISTED AND SHALL CONFORM TO ANY ADDITIONAL LABELING, TESTING AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THE GOVERNING AUTHORITIES. SAME SHALL BE GUARANTEED FOR 1 YEAR SUBSEQUENT TO FINAL ACCEPTANCE.

16. ALL EQUIPMENT (ELECTRICAL AND MECHANICAL) SHALL BE SPECIFIED TO HAVE VOLTAGE RATINGS COMPATIBLE WITH THE PROVISIONS OF ANSI C84.

17. DISCONNECTS FOR INCOMING SERVICE SHALL BE SERVICE RATED.

J. KITCHEN NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL STUB-UP LOCATIONS AND HEIGHTS, MOUNTING HEIGHTS AND DIMENSIONS, OUTLET LOCATIONS IN FIELD WITH VENDORS' APPROVED SHOP DRAWINGS.

2. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO EQUIPMENT PER VENDORS' APPROVED SHOP DRAWINGS.

3. COVER PLATES FOR ALL OUTLETS, JUNCTION BOXES, ETC. MOUNTED ABOVE COUNTERTOPS SHALL BE GASKETED AND STAINLESS STEEL.

4. APPROVED TYPE HIGH TEMPERATURE WIRE SHALL BE USED FOR CONNECTION TO HOOD LIGHTING, RANGES, HOT PLATES, ETC.

5. ELECTRICAL CONTRACTOR SHALL COORDINATE RECEPTACLE TYPES REQUIRED WITH PLUGS SUPPLIED WITH EQUIPMENT.

6. ALL DISCONNECT SWITCHES ARE TO BE PER SCHEDULES (UNLESS OTHERWISE NOTED) AND SHALL BE NEMA 3R, HORSEPOWER RATED SWITCHES SHALL BE USED FOR ALL MOTOR CIRCUITS, UNLESS SHOWN BE NEMA 3R. ELECTRICAL CONTRACTOR SHALL INSTALL WHERE APPLICABLE TOGGLE SWITCHES FOR USE AS DISCONNECTS. THESE SWITCHES SHALL BE "T" RATED FOR RESISTANCE LOADS AND "M" RATED FOR MOTOR.

7. ELECTRICAL CONTRACTOR SHALL VERIFY PHASE, LOAD, BALANCING ON POWER PANELS WITH APPROVED VENDORS' EQUIPMENT, LOAD REQUIREMENTS, AND BALANCE TO WITH 10%.

8. ALL PANELS WHICH ARE NOT LOCATED WITHIN A CLOSET AND ARE OPEN TO THE KITCHEN/SERVEY AREA SHALL BE PROVIDED WITH BRUSHED STAINLESS STEEL, NEMA 3R COVERS.

9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL DISCONNECT SWITCH REQUIREMENTS WITH ELECTRICAL INSPECTOR. VENDOR APPROVED SHOP DRAWINGS AND FINAL EQUIPMENT LOCATIONS.

10. KITCHEN DISTRIBUTION AND/OR POWER PANELS SHALL BE PROVIDED WITH GROUND AND NEUTRAL BUSES.

11. PROVIDE SEPARATED GROUND WIRE (PER CODE) FOR EACH PIECE OF KITCHEN EQUIPMENT, UPSIZE CONDUIT AS REQUIRED TO ACCOMMODATE GROUND WIRE.

12. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER TO ENSURE PROPER WRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAYBE FURNISHED AS

14
EPKS-2

HOME RUN ARROW INDICATES PANEL AND CIRCUIT NUMBER

WIRING RUN BELOW SLAB AND CONCEALED IN AN APPROVED RACEWAY

120V, 20A DUPLEX RECEPTACLE

RECESSED 120V, 20A DUPLEX RECEPTACLE WITH SURGE SUPPRESSION PROTECTION MOUNTED BEHIND TV DISPLAY

120V, 20A QUADRAPLEX RECEPTACLE

SPECIAL PURPOSE RECEPTACLE - E.G. SHALL FURNISH AND INSTALL A SPECIFICATION GRADE RECEPTACLE MOUNTED AS DIRECTED BY THE FOOD SERVICE DRAWINGS.

DISCONNECT SWITCH AND POINT OF CONNECTION - SIZED AS REQUIRED.

DATA OUTLET - E.G. SHALL COORDINATE MAKE & MODEL WITH OWNER AND FURNISH AND INSTALL NEW DATA OUTLET AND COVER PLATE IN LOCATION SHOWN. EXTEND NEW SHIELDED, PLENUM RATED CAT6 CABLE FROM NEW OUTLET TO IT RACK AND TERMINATE. ALL DATA CABLE INSTALLATION, TESTING, LABELING & TERMINATIONS SHALL BE BY CONTRACTOR.

LED TV/MONITOR RECESSED OUTLET. EXTEND NEW SHIELDED, PLENUM RATED CAT6 CABLE FROM NEW TV OUTLET TO A/V RACKS AND TERMINATE, UNLESS NOTED OTHERWISE ON DRAWINGS. DATA CABLE INSTALLATION, TESTING, LABELING & TERMINATIONS SHALL BE BY CONTRACTOR.

LINEAR LED FIXTURE (LETTER SUBSCRIPT INDICATES FIXTURE TYPE)

LED RECESSED DOWNLIGHT FIXTURE (LETTER SUBSCRIPT INDICATES FIXTURE TYPE)

SINGLE OR DOUBLE FACED EXIT SIGN WITH DIRECTIONAL ARROWS AS REQUIRED. MOUNT OUT ON WALL ABOVE DOORWAYS OR CEILING MOUNTING AS REQUIRED.

EMERGENCY BATTERY PACK

BRANCH CIRCUIT CONTINUATION - INDICATES MATCH-LINE CONTINUATION OF AN ELECTRICAL BRANCH CIRCUIT

S SINGLE POLE LIGHTING SWITCH

S_D LIGHTING DIMMER SWITCH

S₃ 3-WAY LIGHTING CONTROL SWITCH

JUNCTION BOX - SIZE AS REQUIRED

RECESSED MOUNTED PANELBOARD

SURFACE MOUNTED PANELBOARD

A.F.F. ABOVE FINISHED FLOOR

C.T.R. MOUNTED ABOVE MILLWORK COUNTER

E EXISTING TO REMAIN

ER EXISTING TO BE REMOVED AND RETURNED TO OWNER

GFI GROUND FAULT INTERRUPTER

R EXISTING TO BE RELOCATED

RE RELOCATED EXISTING, SHOWN IN NEW LOCATION

C.M. CEILING MOUNTING

	HOME RUN ARROW INDICATES PANEL AND CIRCUIT NUMBER
	FIRE FIGHTERS TELEPHONE JACK
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM COMBINATION AUDIBLE/STROBE
	FIRE ALARM STROBE
	COMBINATION CARBON MONOXIDE/SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
ER	EXISTING TO BE REMOVED
E	EXISTING DEVICE
N	NEW
TS	TAMPER SWITCH
FS	FLOW SWITCH
WP	WEATHER PROOF
C.M.	CEILING MOUNTED

E-001

DEMOLITION GENERAL NOTES:

1. CONDUCT DEMOLITION IN A MANNER WHICH MAINTAIN ELECTRIC SERVICE THROUGHOUT ALL AREAS OTHER THAN CONSTRUCTION AREAS THROUGHOUT THE DURATION OF WORK.
2. PERFORM DEMOLITION IN AN ORDERLY, CAREFUL AND WORKMANLIKE MANNER. PROTECT EXISTING CONSTRUCTION NOT SHOW TO BE DEMOLISHED AND/OR REMOVED.
3. REMOVE MATERIALS, FIXTURES, DEVICES, ETC., WHICH ARE TO BE REINSTALLED OR REUSED IN A MANNER TO PREVENT DAMAGE. TEMPORARILY REMOVE AND STORE OFFSITE AS NECESSARY.
4. OWNER SHALL HAVE FIRST REFUSAL OF ANY MATERIAL, FIXTURE, DEVICE, MISCELLANEOUS ACCESSORIES, APPLIANCES, AND OTHER MISCELLANEOUS ITEMS THAT ARE SCHEDULED FOR REMOVAL. CONTRACTOR SHALL COORDINATE WITH OWNER TO REVIEW AREAS OF REMOVALS AND IDENTIFY AND SUCH ARTICLES WHICH SHALL BE REMOVED AND RETURNED TO THE OWNER. THE OWNER SHALL DESIGNATE A STORAGE AREA FOR THOSE ITEMS BEING SAVED FOR THE OWNER.
5. PROTECT ALL EXISTING ELECTRICAL, COMMUNICATIONS, FIRE ALARM, IT, A/V, CONTROL SYSTEMS, ETC., DURING CONSTRUCTION TO PREVENT INTERRUPTIONS OF THESE SYSTEMS DURING CONSTRUCTION.
6. UNLESS NOTED OTHERWISE, ALL DEMOLISHED AND REMOVED FIXTURES, DEVICES, EQUIPMENT, ETC., SHALL HAVE THEIR BACK-BOXES AND WIRING REMOVED, AND THEIR ADJACENT WALLS AND CEILING PATCHED TO MATCH NEW MATERIALS. NO BLANK COVER PLATES WILL BE ACCEPTABLE. REWIRE ALL EXISTING, RELOCATED AND NEW ELECTRICAL FIXTURES AND DEVICES AS NECESSARY.
7. PATCH AND REPAIR ALL EXISTING SURFACES AND ITEMS ADJACENT TO DEMOLITION WHICH HAS BEEN DAMAGED OR MARRED DUE TO DEMOLITION AND OR NEW CONSTRUCTION.
8. CONTRACTOR MAY REMOVE WIRING, CONDUIT, ELECTRICAL BOXES, ETC., WHICH ARE IN GOOD, CODE-COMPLIANT CONDITION.

1. CONDUCT DEMOLITION IN A MANNER WHICH MAINTAIN ELECTRIC SERVICE THROUGHOUT ALL AREAS OTHER THAN CONSTRUCTION AREA THROUGHOUT DURATION OF WORK.
2. PERFOM DEMOLITION IN AN ORDERLY, CAREFUL AND WORKMANLIKE MANNER. PROTECT EXISTING CONSTRUCTION NOT SHOW TO BE DEMOLISHED AND/OR REMOVED.
3. REMOVE MATERIALS, FIXTURES, DEVICES, ETC., WHICH ARE TO BE REINSTALLED OR RETAINED IN A MANNER TO MAINTAIN ACCESS TO ALL AREAS. REFRUALLY REMOVE AND STORE OFFSITE AS NECESSARY.
4. OWNER SHALL HAVE FIRST REFUSAL OF ANY MATERIAL, FIXTURE, DEVICE, MISCELLANEOUS ACCESSORIES, APPLIANCES, AND OTHER MISCELLANEOUS ITEMS THAT ARE DISCHARGED FOR REMOVAL. CONTRACTOR SHALL COORDINATE WITH OWNER TO REVIEW AREAS OF REMOVALS AND IDENTIFY AND SUCH ARTICLES WHICH SHALL BE RETURNED TO OWNER. CONTRACTOR SHALL HAVE THE OWNER SHALL DESIGNATE A STORAGE AREA FOR THOSE ITEMS BEING SAVED FOR THE OWNER.
5. PROTECT ALL EXISTING ELECTRICAL, COMMUNICATIONS, FIRE ALARM, IT, A/V, CONTROL SYSTEMS, ETC., DURING CONSTRUCTION TO PREVENT INTERRUPTIONS OF THESE SYSTEMS DURING CONSTRUCTION.
6. UNLESS NOTED OTHERWISE, ALL DEMOLISHED AND REMOVED FIXTURES, DEVICES, EQUIPMENT, ETC., SHALL HAVE THEIR BACK-BOXES AND WIRING REMOVED, AND THEIR AFFECTED WALLS AND CEILING PATCH AND REPAIRED TO MATCH NEW. REMOVE ALL BLANK COVER PLATE AND WIRE THE UNABLE REWIRE ALL EXISTING, RELOCATED AND NEW ELECTRICAL FIXTURES AND DEVICES AS NECESSARY.
7. PATCH AND REPAIR ALL EXISTING SURFACES AND ITEMS ADJACENT TO DEMOLITION WHICH HAS BEEN DAMAGED BY MARKING USED TO CREATION OF NEW CONSTRUCTION.
8. CONTRACTOR MAY REUSE WRING, CONDUIT, ELECTRICAL BOXES, ETC., WHICH ARE IN GOOD, CODE-COMPLIANT CONDITION.

E.C. SHALL VISIT SITE PRIOR TO BID AND INCLUDE ALL NECESSARY MATERIAL AND LABOR TO COMPLETELY REMOVE ALL THE EXISTING ELECTRICAL POWER, LIGHTING & LOW VOLTAGE SYSTEMS (IF ANY) PRESENT IN THE EXISTING PROSECUTORS OFFICE THAT IS TO BE DEMO'D. ALL EXISTING CONDUITS, RACEWAY AND WIRING SHALL BE REMOVED IN THEIR ENTIRETY.

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CONCORD
ENGINEERING 
www.concord-engineering.com
2311 Atlantic Avenue
Atlantic City, New Jersey 08401
(609) 272-9620

Anthony H. Caucci
Professional Engineer
New Jersey Lic. # 44806

ATLANTIC COUNTY VOTING
MACHINE WAREHOUSE
ALTERATION

235 DOLPHIN AVENUE
NORTHFIELD, NJ 08225

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DRAWING TITLE:

ELECTRICAL POWER DEMOLITION PLAN

DRAWN BY:	DS	DRAWING NO.
REVIEWED BY:	EJT	

PROJECT NO.
22013.00.001

ED-100

1. PERFORM DEMOLITION IN AN ORDERLY, CAREFUL, AND WORKMANLIKE MANNER. PROTECT EXISTING CONSTRUCTION NOT SHOW TO BE DEMOLISHED AND/OR REMOVED.
2. REMOVE MATERIALS, FIXTURES, DEVICES, ETC., WHICH ARE NOT INCLUDED OR RETAINED OR BY MANUAL TO PREVENT DAMAGE. TEMPORARILY REMOVE AND STORE OFFSITE AS NECESSARY.
3. OWNER SHALL HAVE FIRST REFUSAL OF ANY MATERIAL, FIXTURE, DEVICE, MISCELLANEOUS ACCESSORIES, ETC., AND OTHER ITEMS TO BE REMOVED THAT ARE SCHEDULED FOR REMOVAL. CONTRACTOR SHALL COORDINATE WITH OWNER TO REVIEW AREAS OF REMOVALS AND APPROVE AND SIGNIFY. ITEMS NOT TO BE REMOVED AND RETURNED TO THE OWNER. THE OWNER SHALL DESIGNATE A STORAGE AREA FOR THOSE ITEMS BEING SAVED FOR THE OWNER.
4. PROTECT ALL EXISTING ELECTRICAL, COMMUNICATIONS, IT, AND OTHER SYSTEMS DURING CONSTRUCTION TO PREVENT INTERFERENCE OF THESE SYSTEMS DURING CONSTRUCTION.
5. UNLESS NOTED OTHERWISE, ALL DEMOLISHED AND REMOVED FIXTURES, DEVICES, EQUIPMENT, ETC., SHALL HAVE THEIR CABINETS-BOXES AND WIRING REMOVED AND THEIR AFFECTED WALLS, FLOORING, CEILING, AND REPAIRED TO MATCH NEW FINISHES. NO BLANK COVER PLATES WILL BE ACCEPTABLE. REWIRE ALL EXISTING, LOCATED AND NEW ELECTRICAL FISHING AND REMOVED AS REQUIRED.
6. PATCH AND REPAIR ALL EXISTING SURFACES AND ITEMS ADJACENT TO DEMOLITION WHICH HAS BEEN DAMAGED OR MARRED DUE TO DEMOLITION AND OR NEW CONSTRUCTION.

1 ELECTRICAL LIGHTING DEMOLITION PLAN
ED-200 SCALE: 1/8" = 1'-0"

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CONCORD
ENGINEERING 

www.concord-engineering.com
2311 Atlantic Avenue
Atlantic City, New Jersey 08401
(609) 272-9620

Anthony H. Caucci
Professional Engineer
New Jersey Lic. # 44806

235 DOLPHIN AVENUE
NORTHFIELD, NJ 08225

SUBMISSIONS

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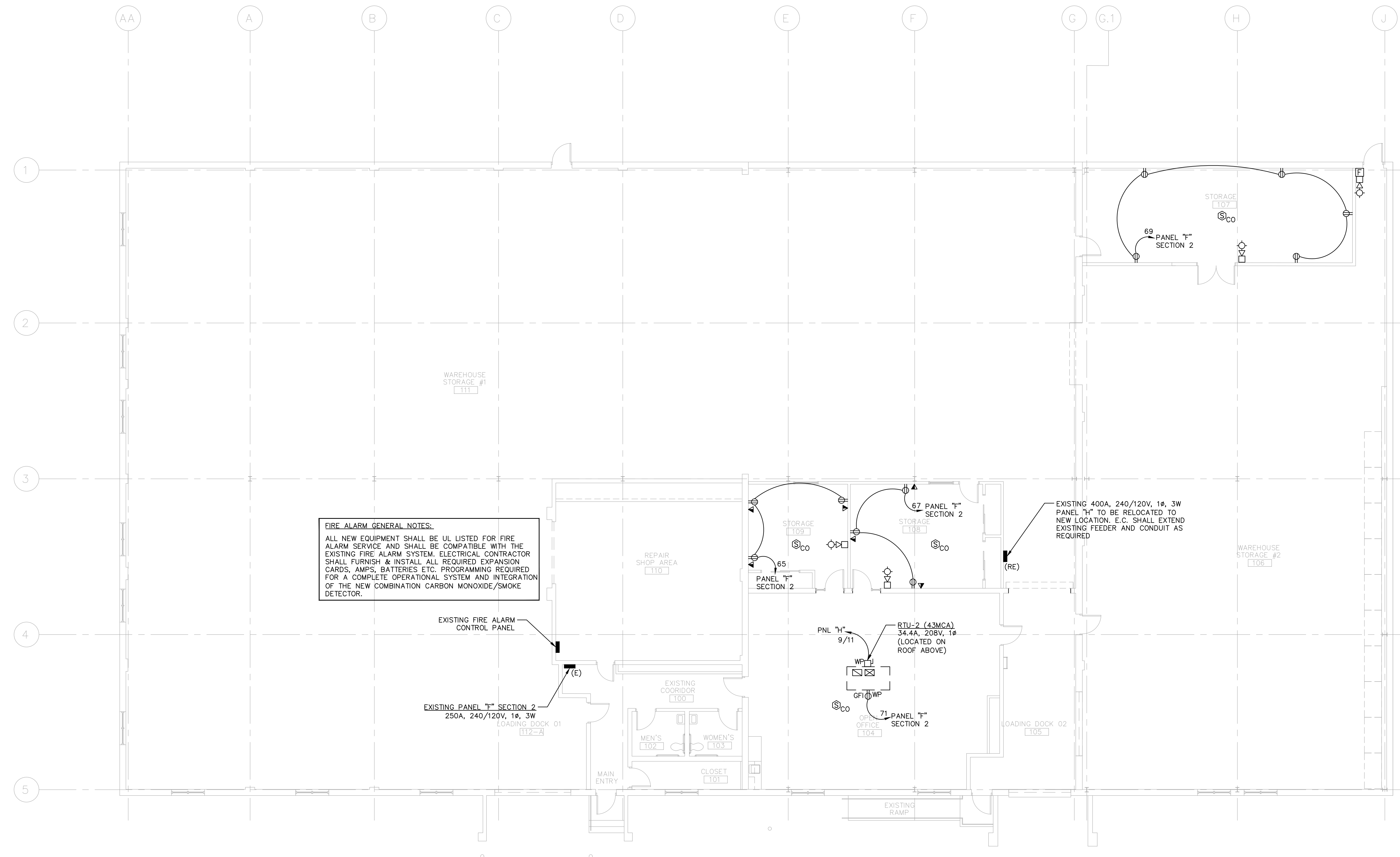
DRAWING TITLE:

ELECTRICAL LIGHTING
DEMOLITION PLAN

DRAWN BY:	DS	DRAWING NO.
REVIEWED BY:	EJT	ED-200
PROJECT NO.	22013.00.001	

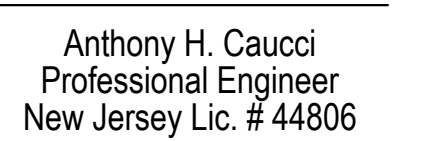
ED-200

1. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD.
2. COORDINATE WORK WITH ALL OTHER TRADES.
3. REFER TO ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL NEW FIXTURES AND DEVICES.
4. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS TO THE LAYOUTS SHOWN.
5. CONTRACTOR SHALL COORDINATE AND INSTALL ALL OWNER-SUPPLIED FIXTURES, DEVICES, ETC., EXCEPT AS NOTED OTHERWISE.
6. CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING PLATES OR SOLID BLOCKING IN ALL PARTITIONS AND WALLS WHICH RECEIVE ANY WALL-MOUNTED ITEMS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACKBOXES, WIRING, ETC. AS REQUIRED UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PROVIDE ALL WIRE AND CONNECTORS, AND GEL TERMINATE, AND TEST ALL NEW AND RE-UTILIZED LOW VOLTAGE CABLES UNLESS OTHERWISE NOTED.



1 ELECTRICAL POWER NEW WORK PLAN
E-100 SCALE: 1/8" = 1'-0"

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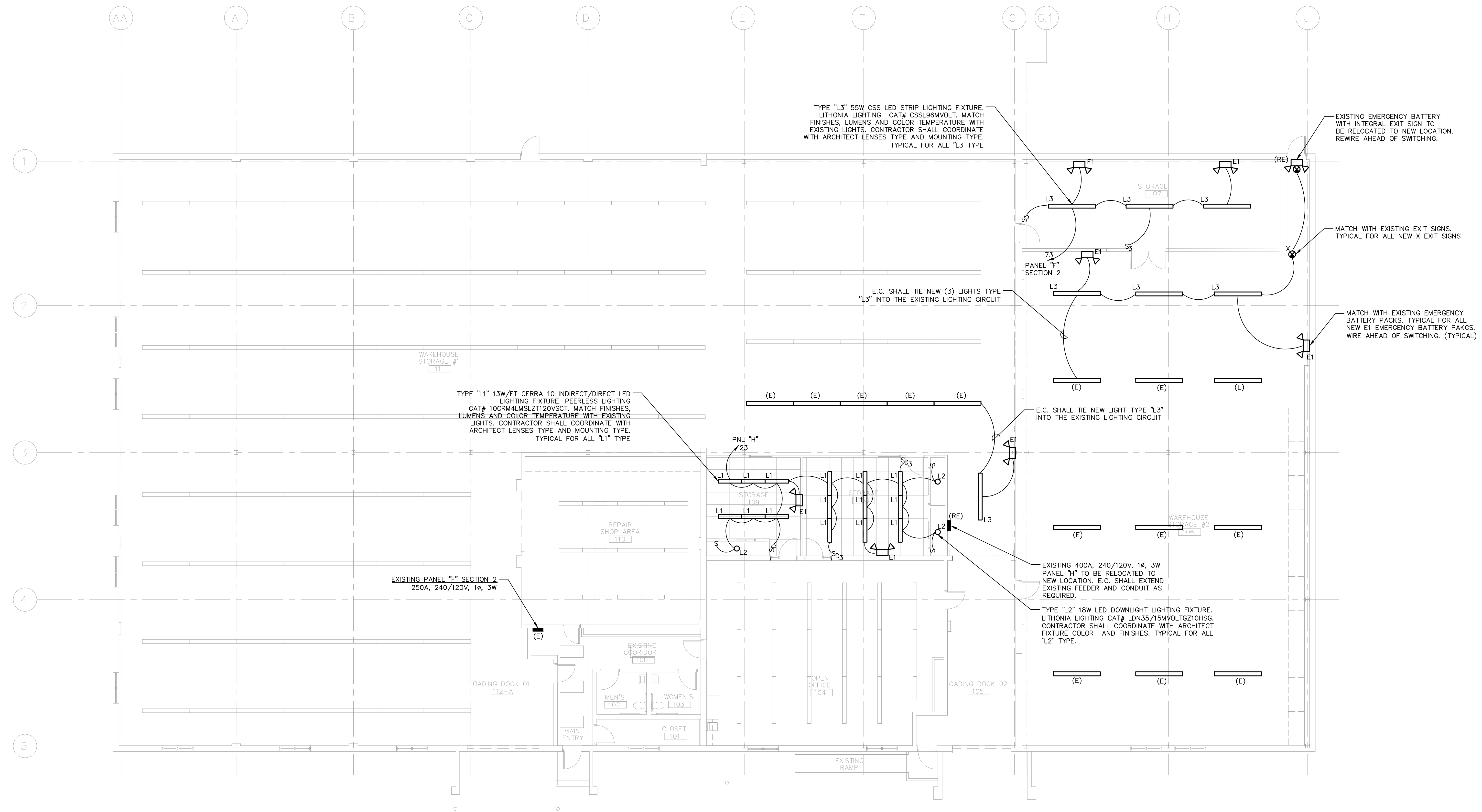
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DRAWN BY:	DS	DRAWING NO. E-10
REVIEWED BY:	EJT	
PROJECT NO. 22013.00.001		

E-100

1. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD.
2. COORDINATE WORK WITH ALL OTHER TRADES.
3. REFER TO ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL NEW FIXTURES AND DEVICES.
4. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS TO THE LAYOUTS SHOWN.



1 ELECTRICAL LIGHTING NEW WORK PLAN
E-200 SCALE: 1/8" = 1'-0"



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NORTHFIELD, NJ 08225

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REVIEWED BY:	EJT	
PROJECT NO. 22013.00.001		