

May 31, 2018



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**ADDENDUM NO. ONE (1)**

**PROJECT NO: 128696**  
**TITLE OF PROJECT: Flood Repairs**  
**FACILITY NAME: CF Dickinson Marine Laboratory**  
**LOCATION: Galveston County, Texas**

**NOTICE TO ALL BIDDERS:**

Commissioners

Ralph H. Duggins  
Chairman  
Fort Worth

S. Reed Morian  
Vice-Chairman  
Houston

T. Dan Friedkin  
Houston

Anna B. Galo  
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Chairman-Emeritus  
Fort Worth

Carter P. Smith  
Executive Director

**This addendum shall be considered part of the Bid solicitation and Contract Documents and is issued to change, amplify, or delete from or otherwise explain the documents where provisions of this addendum differ from those of the original contract documents. This addendum shall have precedence over the original contract documents and shall govern.**

**Bidders are hereby notified that they shall incorporate this addendum in their bids, and it shall be construed that the Contractor's bid shall reflect with full knowledge, all items, changes and modifications to the contract documents herein specified.**

**Bidders are advised to check for updates, addenda issuance, and bid opening date changes at the TPWD Infrastructure Division Website:**

**[http://tpwd.texas.gov/business/bidops/current\\_bid\\_opportunities/construction/](http://tpwd.texas.gov/business/bidops/current_bid_opportunities/construction/)**


**ADD THE ATTACHED ADDENDUM NO. 1 WHICH INCLUDES QUESTIONS AND ANSWERS, PREPARED BY PDG ARCHITECTS, DATED MAY 31, 2018.**

**BID OPENING, DATE REMAINS: 2:00 P.M., JUNE 7, 2018 AT TEXAS PARKS & WILDLIFE DEPARTMENT, 4200 SMITH SCHOOL RD., AUSTIN, TEXAS 78744**

**BIDDERS SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE CONTRACTOR'S BID FORM LOCATED ABOVE THE SIGNATURE BLOCK. WARNING: BIDDER'S FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA MAY RESULT IN REJECTION OF BID.**

**END OF ADDENDUM NUMBER ONE (1)**

**ATTACHMENTS: - ADDENDUM NO. 1 PDG ARCHITECTS – NINE (9) PAGES**

  
Cruz Banda, CTPM, CTCM  
Contract Manager  
Infrastructure Division

4200 SMITH SCHOOL ROAD  
AUSTIN, TEXAS 78744-3291  
512.389.4800

[www.tpwd.texas.gov](http://www.tpwd.texas.gov)

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.  
Addendum One (1) 128696

## AMENDMENT NUMBER 01

### DRAWINGS

1.

- Revised keyed notes #1,2,3,4.
- Deleted roof receptacle detail #6.
- 1) Revised Note "C" in boxed notes.  
2) Added keyed note #9.
- 1) Revised IT/Data note.  
2) Added electrical general note #4.  
3) Deleted keyed note #3 (Not Used).  
4) Deleted floating note about the roof receptacle (Not Used).
- 1) Added demolition general note #8.  
2) Added IT/Data note.
- Deleted keyed note #4.



### OTHER

2.

- All partition walls shall received new insulation up to 48" A.F.F. or up to existing insulation, typical throughout both buildings (A & B).
- Repaint existing damaged doors to match existing door color.
- Remove the Gypsum wall board in both restrooms at building "A" to 48" AFF., replaced corroded metal stud track. Replace with new Fire Rated Gypsum Wall Board as per specifications, install new 48" FRP panel at wall behind plumbing fixture and paint gypsum board throughout the restrooms.

### QUESTIONS

**Dickinson Marine Lab Flood Repair**

TPWD - Dickinson, TX

TPWD Project No. 128696

Amendment Dated 05/31/2018

**PDG Architects**

Houston, Texas

PDG Project No. 17256

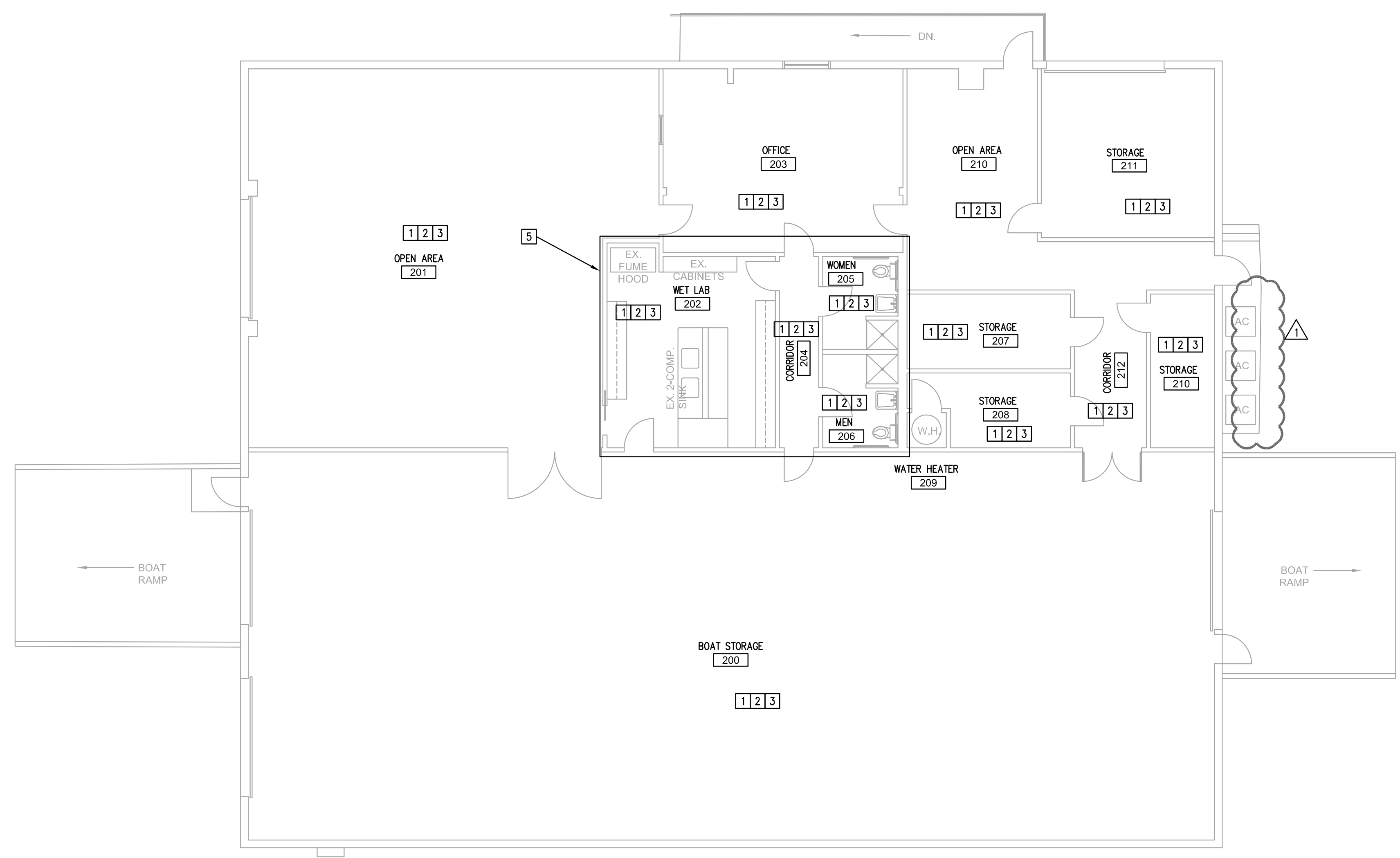
**3.**

- Q) Are substitutions for Armstrong Resilient Flooring is acceptable?
  - A) Refer to Specification Section 096519-2.1.A for acceptable Resilient Flooring Manufacturers.
- Q) Does the estimate range of construction cost \$480,000.00 to \$550,000.00 include both Building A and Building B scopes of work?
  - A) Yes, the estimate includes the Scope of Work for both buildings (A & B).
- Q) Besides the removal, cleaning, and re-installation of toilets, what other work is being requested in the restrooms (replace partitions, hardware, etc...)
  - A) Besides the removal, cleaning, and re-installation of toilets, damaged wall partitions shall be replaced and painted, and damaged wall tiles shall be replaced in restrooms.
- Q) Besides the recessed can lights, are any of the other light fixtures being replaced?
  - A) All existing exterior soffit down lights shall be replaced with new LED down lights. All interior 2x4 light fixtures are supplied by owner and installed by contractor.
- Q) What is the composition of the current restroom walls?
  - A) Painted Gypsum Wall Board.
- Q) Page A501 detail 3 reads " 1/8" thick x 2" double sided adhesive tape adhered to brick below proposed weep hole." What product should be used for this, and how will this product be installed without removing bricks?
  - A) No brick removal is required, GC to provide a "3M" double sided Butyl Tape or a comparable product. This will conform to the shape of the brick. The intention of this tape is to hold the wall flashing in place as shown on detail 03/A501 to create the required slope for the closed cell spray foam.
- Q) Will the existing parking lots be available for staging & parking?
  - A) Yes.
- Q) What kind of Armstrong Fine Fissured Lay-in Ceiling?
  - A) The Lay-in Ceiling shall be 24 x 24x 5/8" Armstrong Fine Fissured - Square Lay-in (1728) with 15/16" Prelude XL Suspension System as specified in the project manual.
- Q) How do we install the flashing to ensure a complete moisture tight installation. You can't access the top portion of the flashing from the front, back, top or bottom. You can only partially get to it from one side. Even with a self-adhering attachment, don't you still have to push down on the flashing to install it properly? Please clarify.
  - A) The flashing membrane will need to be adhere to the back of the sheathing first and then to the brick via the double sided tape. Once the Closed Cell Sprayed Foam is installed, it will provide the required water tightness.
- Q) Will it be required to remove the existing brick mortar in the wall cavity before the spray insulation is installed. If so, to what extent (chipping could damage the existing brick wall)?
  - A) As indicated on detail 03/A501, only the vertical grout joint at the indicated brick course will need to be removed @ 16" O.C. This should not damage the brick if the right tool is being used. The Grout joint will need to be removed prior to the installation of the new flashing membrane to ensure that all debris have been cleaned.

**Dickinson Marine Lab Flood Repair**  
TPWD - Dickinson, TX  
TPWD Project No. 128696  
Amendment Dated 05/31/2018

**PDG Architects**  
Houston, Texas  
PDG Project No. 17256

**END OF AMENDMENT**



**MECHANICAL GENERAL NOTES:**

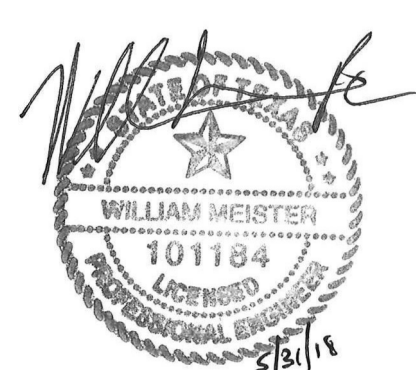
- CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO MAKE THE NECESSARY CHANGES AND MODIFICATION TO NEW AND EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DEMOLITION NOTES, DIMENSIONED FLOOR PLANS, MOUNTING LOCATIONS AND SCOPE OF WORK REQUIREMENTS.

**MECHANICAL KEYED NOTES:**

- ENSURE EXISTING AIR DEVICES ARE IN ACCEPTABLE OPERATING CONDITION. CLEAN/PATCH/PAINT/REPAIR AS REQUIRED TO BRING AIR DEVICES TO LIKE NEW CONDITIONS. IF ANY AIR DEVICE NEEDS TO BE REPLACED DUE TO FLOOD DAMAGE, RUST, ETC. REPLACE WITH NEW AIR DEVICE TO MATCH BASE BUILDING STANDARDS. TYPICAL.
- AN HVAC TEST AND BALANCE FIRM SHALL MEASURE THE EXISTING AIRFLOW AT ALL EXISTING AIR DEVICES WITHIN THE LAB BUILDING. ONCE A REPORT OF THE LAB BUILDING IS CREATED, THE REPORT SHALL BE SENT TO THE ARCHITECT AND MEP ENGINEER. TYPICAL.
- ENSURE EXISTING INSULATION IS IN ACCEPTABLE CONDITION. CLEAN/PATCH/REPAIR INSULATION AS NECESSARY. IF ANY PORTION OF THE INSULATION NEEDS TO BE REPLACED, REMOVE THE MINIMUM AMOUNT OF INSULATION REQUIRED AND REPLACE WITH INSULATION TO MEET LOCAL ENERGY CODE MINIMUMS. TYPICAL.
- NOT USED.
- PROVIDE/REMOVE DUCTWORK AND FLEX DUCTWORK AS NECESSARY TO REMOVE THE EXISTING AIR DEVICES FROM THE EXISTING RCP WITHIN THE AREA INDICATED. PROVIDE/REMOVE DUCTWORK AND FLEX DUCTWORK AS NECESSARY REINSTALL THE EXISTING AIR DEVICES IN THE NEW RCP. FIELD COORDINATE EXACT MOUNTING LOCATION WITH LIGHT FIXTURES AND ALL OTHER TRADES.

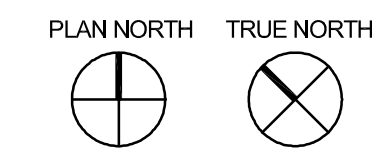
**1 LAB MECHANICAL PLAN**  
M211-B 1/8"=1'-0"

DATE: 05-02-2018  
DESIGNED BY: JONES DBR  
DRAWN BY: JONES DBR  
REVIEWED BY: JONES DBR  
REVISED: 05/31/2018  
ADDENDUM #1



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JONES\*DBR Project Number 1726.000  
WM RM JG RS --



**SHEET TITLE**  
LAB  
MECHANICAL  
PLAN

**SHEET NUMBER**  
M211-B  
BUILDING "B"

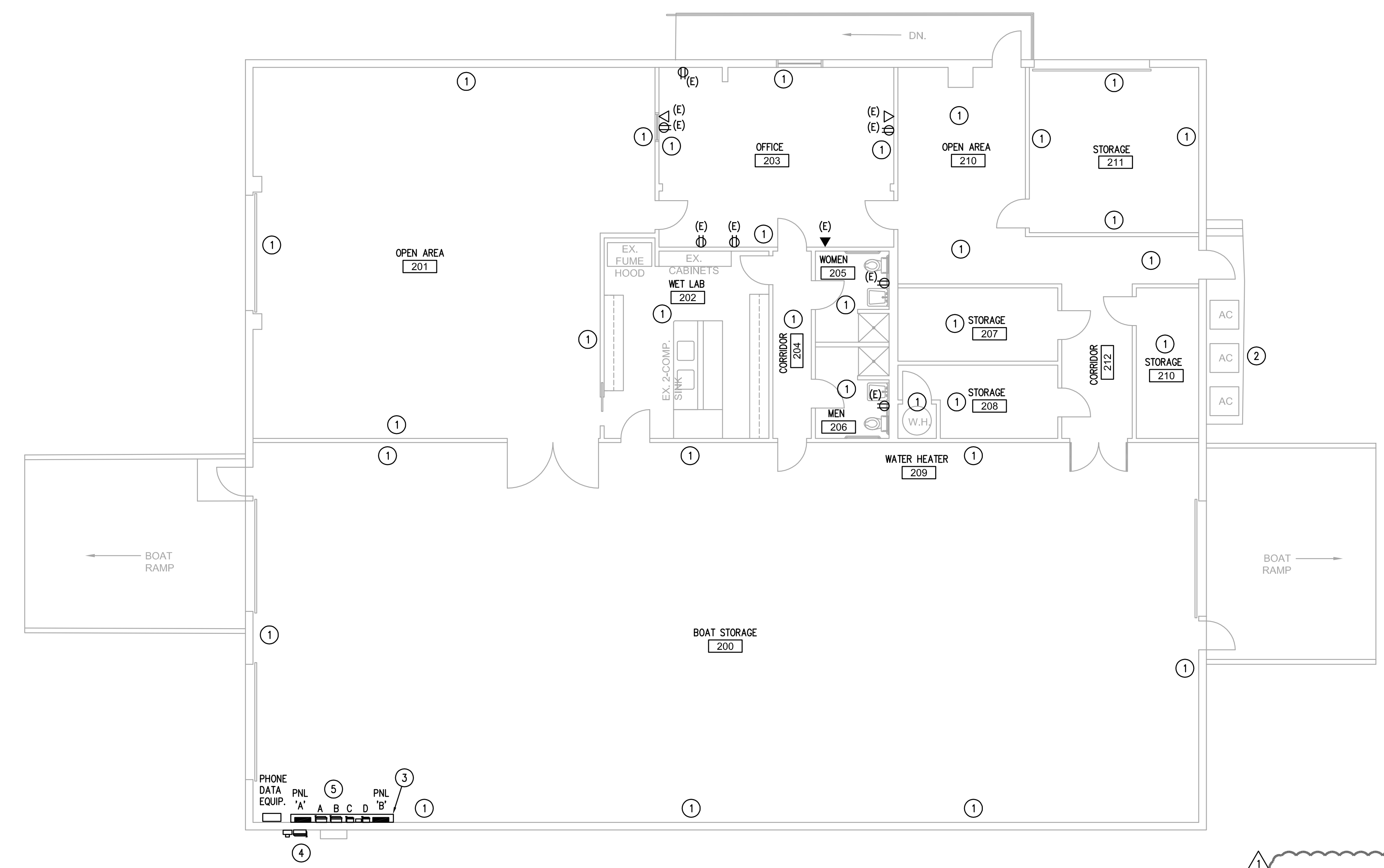
**ELECTRICAL DEMOLITION NOTES:**

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF FLOOD WATER DAMAGE TO THE EXISTING BUILDING.
2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
3. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
4. REMOVE AND REPLACE ALL EXISTING OUTLETS BROKEN COVER PLATES. MATCH EXISTING BRAND AND COLOR.
5. FIELD VERIFY ALL 12" AFF EXISTING J-BOXES AND OUTLETS IN THE ENTIRE BUILDING AND CHECK FOR FLOOD WATER DAMAGE AND WIRE WATER CORROSION. IF WATER DAMAGE DETECTED REPLACE AS REQUIRED. MATCH EXISTING.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND ALSO CONTRACTOR SHALL FIELD VERIFY OF ALL EXISTING OUTLETS AND FIRE ALARM DEVICES BEING REMOVED AND MAKE AN INVENTORY OF DEVICES FOR RELOCATION.
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CEILING MOUNTED LIGHTING FIXTURES, FIRE ALARM DEVICES. PROVIDE A FIXTURE/DEVICES DAMAGE ASSESSMENT TO ARCHITECT TO APPROVE LIGHT FIXTURE OR PARTS REPLACEMENT.
8. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY DAMAGED OR MISSING POWER RECEPTACLE, DATA/COMM DEVICE AND FAULTY CABLING MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND REPLACE. COVER PLATES AND DEVICES TO MATCH EXISTING.

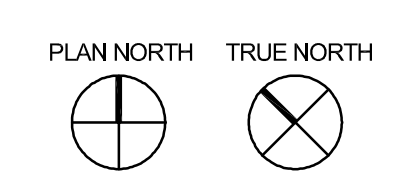
**ELECTRICAL KEYED NOTES:**

1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING POWER AND DATA RECEPTACLES MOUNTED UP TO 24" AFF ALONG ENTIRE WALLS IN THE ENTIRE BUILDING AND CHECK ALL RECEPTACLES AND WIRING FOR WATER FLOOD DAMAGE. REPLACE ANY FAULTY POWER RECEPTACLES AS REQUIRED. PROVIDE NEW WIRE NUTS AND J-BOXES AS REQUIRED AND RECONNECT WIRING IN J-BOXES AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY KIND OF WATER FLOOD DAMAGE TO EXISTING AIR CONDENSING UNITS. REPLACE ANY DAMAGE. DISCONNECT SWITCHES AND REFURBISH WIRING AND RECONNECT USING NEW WIRE NUTS AS REQUIRED.
3. EXISTING ELECTRICAL 400 AMPS 120/240V/3PH/4W ELECTRICAL SERVICE GUTTER MOUNTED VERY LOW CLOSE TO FLOOR. ELECTRICAL CONTRACTOR SHALL FIELD OPEN WIREWAY AND SEE AND CHECK WIRING/BUSSING AND VERIFY THAT THERE IS NO WATER FLOOD DAMAGE. REFURBISH GUTTER AS REQUIRED IF DAMAGED DETECTED.
4. EXISTING 400A, NEMA3R SERVICE ENTRANCE MAIN DISCONNECT SWITCH HEAVILY RUSTED AT BOTTOM AND A KNOCKOUT BUSTED CREATING A ELECTROCUTTING HAZARD. ELECTRICAL CONTRACTOR SHALL DISCONNECT REMOVE AND REPLACE.
5. ALL ELECTRICAL GEAR AND PHONE EQUIPMENT IS EXISTING TO REMAIN.

**IT/DATA NOTE:**  
A. CONTRACTOR SHALL FIELD VERIFY AND REPLACE ALL MISSING, DAMAGED AND/OR BROKEN DATA/COMM DEVICES AND DATA CABLING.



**1 LAB POWER PLAN**  
EP211-B 1/8"=1'-0"

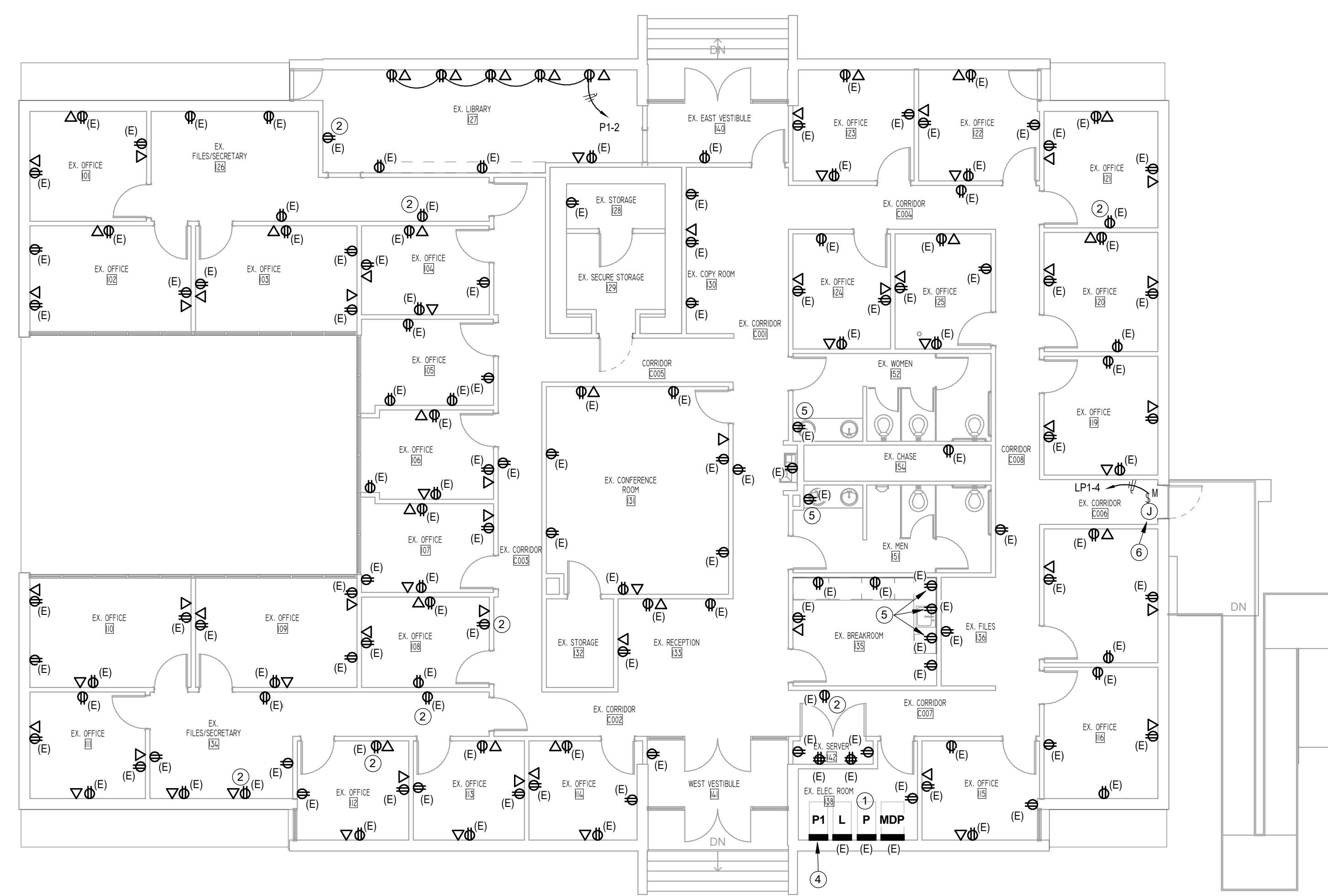


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JONES\*DBR Project Number 1726.000

WM RM JG RS --





**1 LEVEL 1 POWER PLAN**  
EP101 1/8" = 1'-0"

**IT/DATA NOTE:**  
A. CONTRACTOR SHALL FIELD VERIFY AND REPLACE ALL MISSING, DAMAGED AND/OR BROKEN DATA/COMM DEVICES AND DATA CABLING.

**ELECTRICAL DEMOLITION GENERAL NOTES**

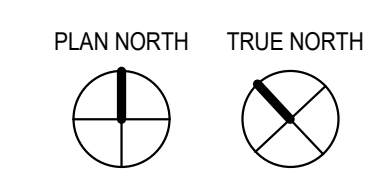
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF FLOOD WATER DAMAGE TO THE EXISTING BUILDING.
2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
3. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REPAIR WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
4. REMOVE AND REPLACE ALL EXISTING OUTLETS BROKEN COVER PLATES. MATCH EXISTING BRAND AND COLOR.
5. FIELD VERIFY ALL 12" AFF EXISTING J-BOXES AND OUTLETS IN THE ENTIRE BUILDING AND CHECK FOR FLOOD WATER DAMAGE AND WIRE WATER CORROSION. IF WATER DAMAGE DETECTED REPLACE AS REQUIRED. MATCH EXISTING.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND ALSO CONTRACTOR SHALL FIELD VERIFY OF ALL EXISTING OUTLETS AND FIRE ALARM DEVICES BEING REMOVED AND MAKE AN INVENTORY OF DEVICES FOR RELOCATION.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR THE EXISTING SMALL BUILDING ATTACHED TO THE EAST SIDE OF THE MAIN BUILDING. ALL EXISTING RECEPTACLES, FIRE ALARM DEVICES SHALL BE REMOVED AND DISCONNECTED AND CONDUIT REMOVED BACK TO POINT OF SOURCE. MAINTAIN CIRCUIT CONTINUITY TO REMAINING RECEPTACLES/DEVICES.

**ELECTRICAL GENERAL NOTES**

1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL POWER AND DATA OUTLETS. LOCATION AND QUANTITIES SHOWN ARE APPROXIMATE.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING POWER RECEPTACLES MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND CHECK RECEPTACLE AND WIRING FOR WATER FLOOD DAMAGE. REPLACE ANY FAULTY RECEPTACLE, J-BOXES AND REFURBISH WIRE ENDS AND PROVIDE NEW WIRE NUTS AND J-BOXES AS REQUIRED AND RECONNECT RECEPTACLE.
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY KIND OF J-BOX OR PULL BOX MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND REPLACE, REFURBISH WIRING AND RECONNECT USING NEW WIRE NUTS.
4. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY DAMAGED OR MISSING POWER RECEPTACLE, DATA/COMM DEVICE AND FAULTY CABLING MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND REPLACE, COVER PLATES AND DEVICES TO MATCH EXISTING.

**ELECTRICAL KEYED NOTES**

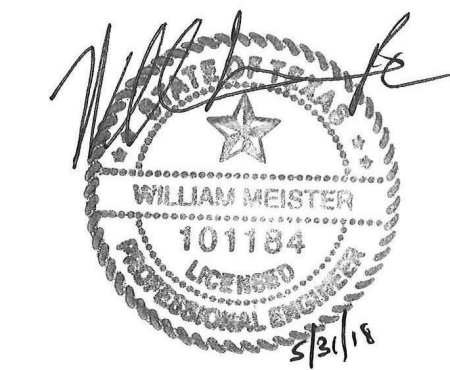
- 1 EXISTING ELECTRICAL EQUIPMENT GEAR TO REMAIN.
- 2 ELECTRICAL CONTRACTOR SHALL REPLACE BROKEN RECEPTACLE COVER PLATE. REFER TO THE ELECTRICAL DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- 3 NOT USED.
- 4 NEW 120/240V POWER PANEL REFER TO ONE LINE DIAGRAM #1/301. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION WITH EXISTING EQUIPMENT TO COMPLY WITH NEC 2017 WORKING CLEARANCE.
- 5 ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE AND ENSURE THAT THIS EXISTING RECEPTACLES BE "GFCI" RATED AND HAVE STAINLESS STEEL COVER PLATES. IF NOT THEN PROVIDE AND WIRE NEW "GFCI" WITH SS COVER PLATE RECEPTACLES.
- 6 JUNCTION BOX FOR ELECTRIC OPERATED DOOR OPENER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DOOR OPENER MANUFACTURER FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE ALL ACCESSORIES, LOW VOLTAGE WIRING AND PARTS AS REQUIRED FOR A COMPLETE INSTALLATION.



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WM RM JG RS



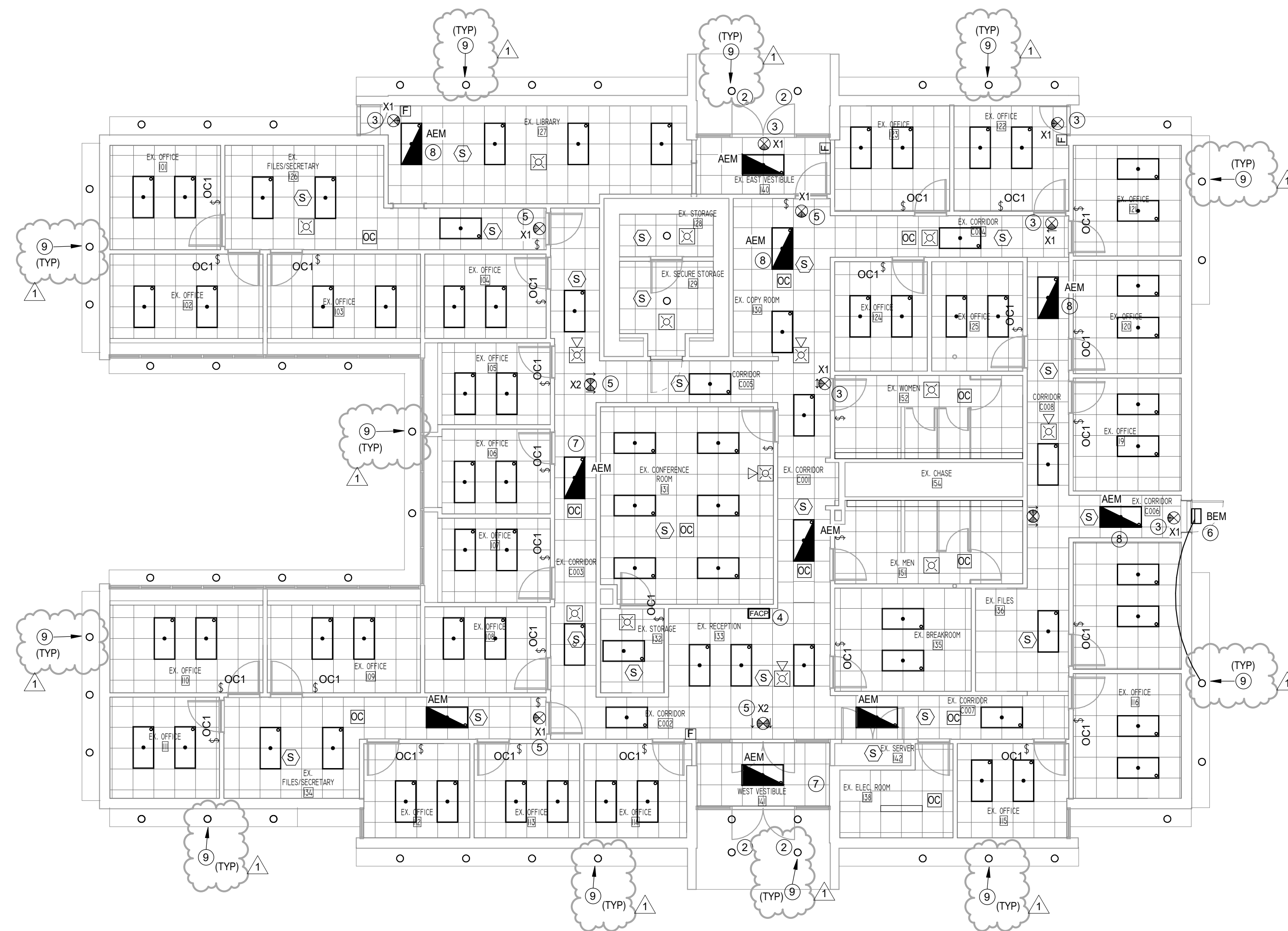
DATE: 05/02/18  
DESIGNED BY: JONES DBR  
DRAWN BY: JONES DBR  
REVIEWED BY: JONES DBR  
REVISED: 05/31/2018 ADDENDUM #1  
REVISED:

**SHEET TITLE**  
LEVEL 1  
POWER PLAN

**SHEET NUMBER**

**EP101**  
BUILDING 'A'

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



**1 LEVEL 1 LIGHTING PLAN**  
EL101 1/8" = 1'-0"

**NOTES:**

- ALL 2'x4' LAY-IN LIGHT FIXTURES ARE TYPE "A" UNLESS OTHERWISE NOTED.
- ALL EXISTING 2'x4' LAY-IN LIGHTING FIXTURES PROVIDED BY OWNER SHALL BE RE-INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL EXISTING EXTERIOR SOFFIT LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED. PROVIDE NEW SOFFIT LIGHTS AND RECONNECT TO EXISTING CIRCUIT. REFER TO KEYED NOTE #9 FOR SOFFIT LIGHT SELECTION.
- ALL EXISTING EXIT SIGNS SHALL BE REPLACED WITH NEW ONES. REFER TO LIGHTING FIXTURE SCHEDULE.
- ALL EXISTING EMERGENCY BATTERY PACKS SHALL BE REPLACED WITH NEW BODINE BATTERY PACK DRIVERS.

**FIRE ALARM DEMOLITION GENERAL NOTES**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM.
- THE SCOPE OF WORK IS TO REMOVE THE FIRE ALARM SYSTEM IN ITS ENTIRETY.
- REMOVE EXISTING FIRE ALARM PANEL AND ALL J-BOXES AND WIRING ASSOCIATED WITH THE FIRE ALARM DEVICES.
- ADD DUCT SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR DUCTS AND INCLUDE A FIA RELAY TO EACH EXISTING ROOF TOP UNIT WITH 2000 CFM OR MORE.

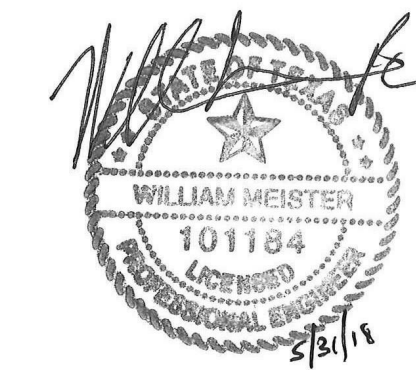
**LIGHTING DEMOLITION GENERAL NOTES**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION OF THE EXISTING LIGHTING.
- VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- REMOVE ALL J-BOXES AND WIRING ASSOCIATED WITH ALL LIGHTING BEING REMOVED, INCLUDING LIGHTING CONTROLS AND FIRE ALARM DEVICES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
- RECONNECT NEW EXIT LIGHT TO ITS EXISTING EXIT SIGN CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING WIRES FROM VACATED FIXTURES AS REQUIRED TO RE-CONNECT TO NEW LIGHTING FIXTURES.

**ELECTRICAL KEYED NOTES**

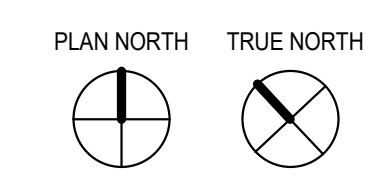
- NEW LED EXIT SIGN. CONNECT TO EXISTING EXIT SIGN CIRCUIT. TYPICAL FOR ALL EXIT SIGNS. REFER TO SHEET E401 FOR LIGHTING FIXTURE SCHEDULE.
- PROVIDE BODINE EMERGENCY LED DRIVER FOR EXTERIOR SOFFIT EMERGENCY EGRESS LIGHT.
- NEW LED EXIT SIGN. CONNECT TO EXISTING EXIT SIGN CIRCUIT. TYPICAL FOR ALL EXIT SIGNS. REFER TO SHEET E401 FOR LIGHTING FIXTURE SCHEDULE.
- NEW FIRE ALARM CONTROL PANEL. LOCATE AT SAME LOCATION AS THE DEMOLISHED PANEL. FIELD VERIFY EXACT LOCATION OF THE EXISTING.
- REMOVE, REPLACE AND RECONNECT EXISTING EXIT SIGN.
- PROVIDE NEW EMERGENCY EGRESS LED SECURITY WALL PACK FIXTURE. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT.
- REMOVE EXISTING BATTERY PACK AND PROVIDE NEW BODINE EMERGENCY LED DRIVER FOR THIS 2'x4' EMERGENCY LIGHT.
- REMOVE EXISTING BATTERY PACK AND PROVIDE NEW BODINE EMERGENCY LED DRIVER FOR THIS 2'x4' EMERGENCY LIGHT.
- DISCONNECT AND REMOVE EXISTING SOFFIT LIGHT. KEEP WIRING TO RECONNECT NEW SOFFIT LIGHT. PROVIDE NEW SOFFIT LIGHT MODEL GE LUMINATION SERIES #RX815840MV-19.5 W. 120/277V LED RECESSED DOWNLIGHT. PROVIDE EMERGENCY BATTERY OPTION FOR ALL SOFFIT LIGHTS AS INDICATED IN KEYED NOTE #2.

DATE: 05/02/18  
DESIGNED BY: JONES DBR  
DRAWN BY: JONES DBR  
REVIEWED BY: JONES DBR  
REVISED: 05/31/2018 ADDENDUM #1  
REVISED:



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JONES\*DBR Project Number 1726.000  
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**SHEET TITLE**  
LEVEL 1  
LIGHTING  
PLAN

**SHEET NUMBER**

**EL101**  
BUILDING 'A'

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

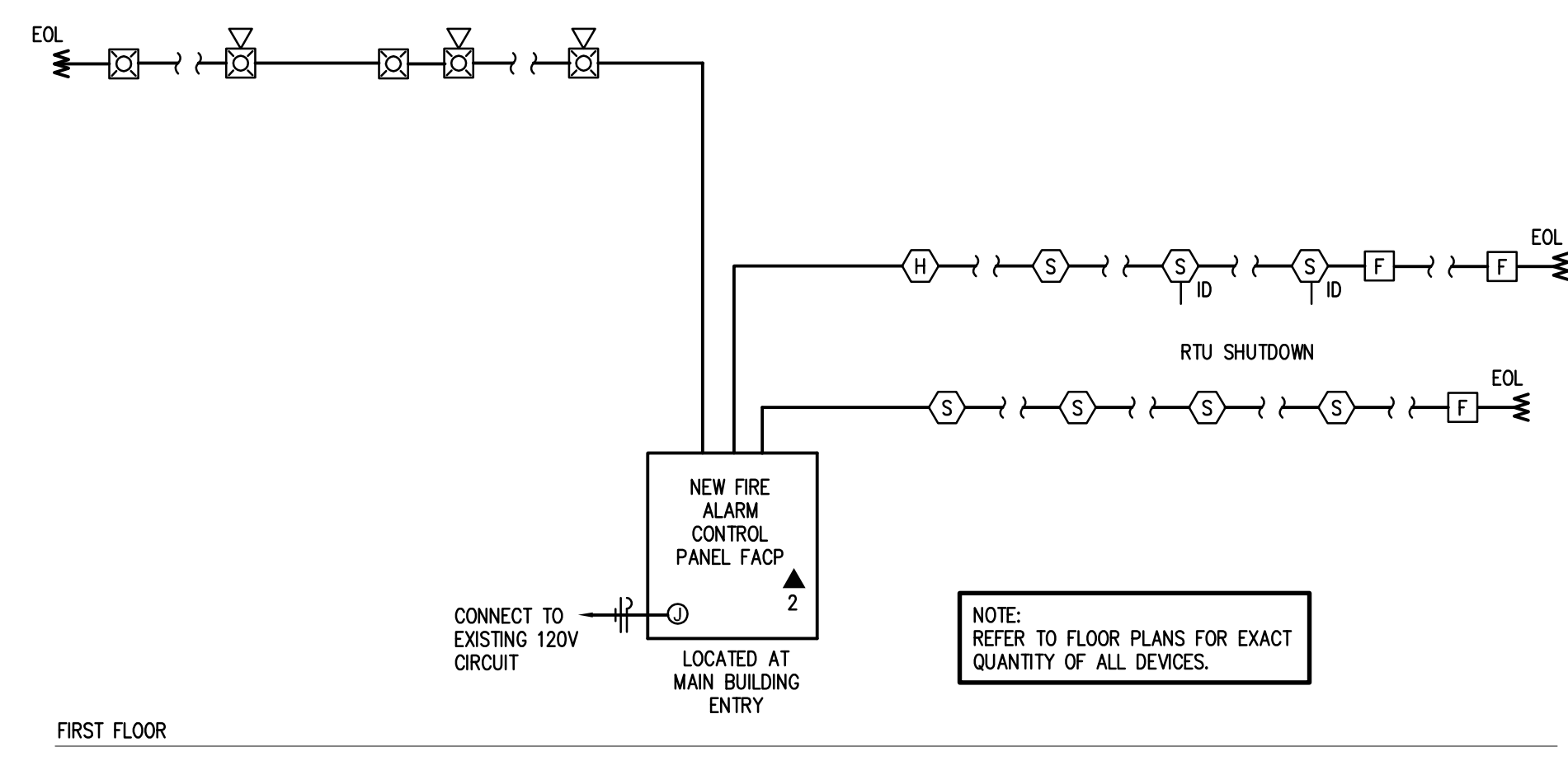


**FIRE ALARM SEQUENCE OF OPERATIONS:**

A. When an alarm condition is detected by any of the system alarm initiating devices, the following actions and indications shall occur:

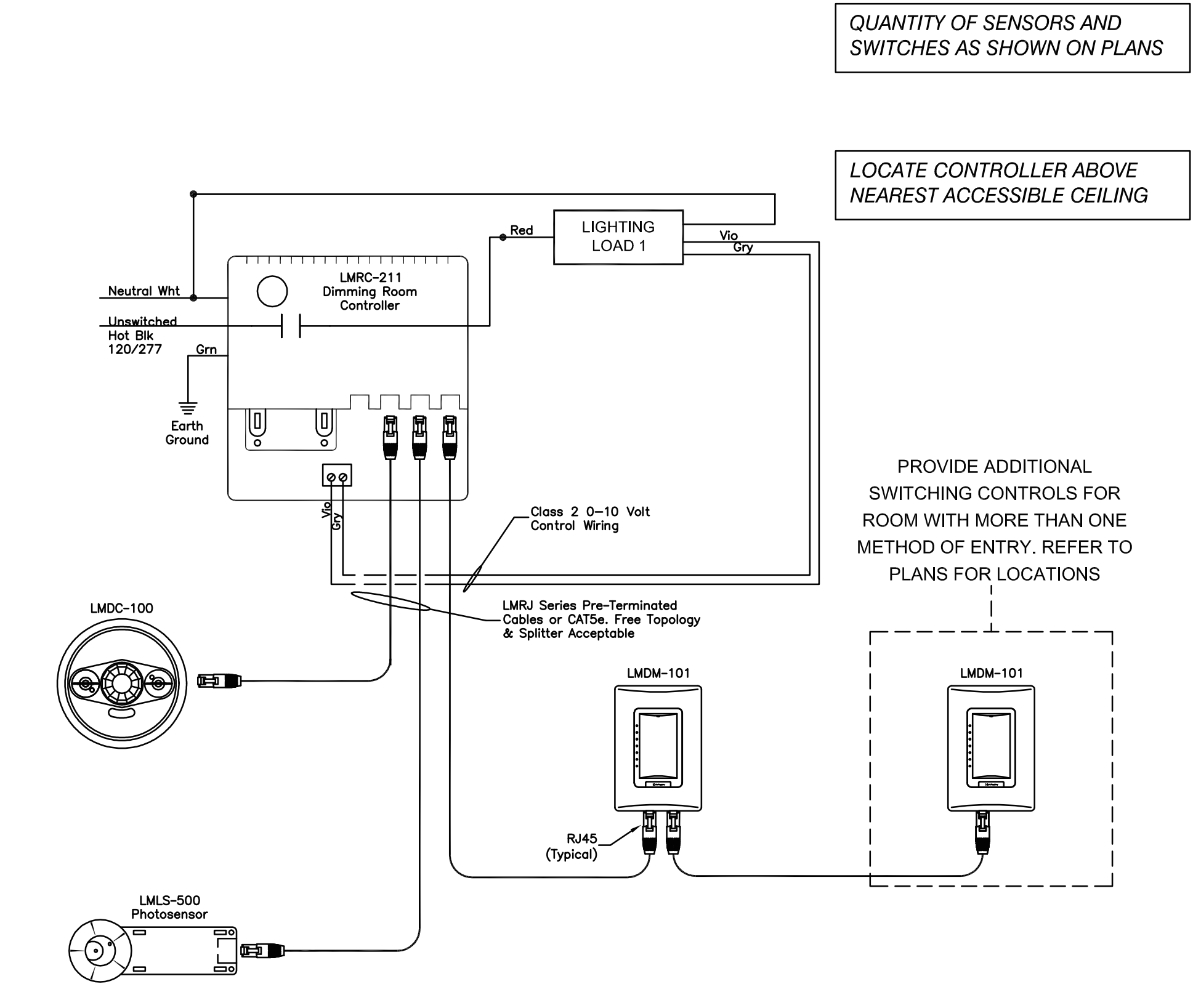
1. The system common alarm LED on the main display shall flash. The internal audible device shall sound. Acknowledgement or silencing the alarm condition shall silence the alarm condition and cause the flashing alarm LED to illuminate steady.
2. A 14-line 224 character back-lit LCD display shall indicate applicable information associated with the alarm condition including: device address, device type, device location, time and date of the alarm condition. Location and point messages shall be custom field programmed to the respective premises.
3. Any remote or local annunciator LED's associated with the alarm device shall be illuminated as herein specified. (If indicated on drawings).
4. Close common alarm contacts for sending a signal to an Approved Central Station (Two dedicated telephone lines, connection and service by Owner).
5. All automatic events programmed to the alarm point shall be executed and the associated indicating devices and/or outputs activated.  
-Activate all audible/visual alarm devices. Alarm tones shall sound.  
-De-activate HVAC systems over 2000 CFM.  
-Display system status changes on fully supervised remote annunciator.
6. Display the status change messages on the system display.

| SYMBOL | DESCRIPTION                            | QUANTITY OF SPARE DEVICES |
|--------|--|---------------------------|
| (S)    | SMOKE DETECTOR                         | 2                         |
| (H)    | HEAT DETECTOR                          | 1                         |
| (R)    | AUXILIARY CONTROL RELAY                | 1                         |
| (F)    | FIRE ALARM PULL STATION                | 2                         |
| (S)    | WALL MOUNTED FIRE ALARM SPEAKER/STROBE | 4                         |
| (S)    | CEILING VISUAL FIRE ALARM (STROBE)     | 4                         |

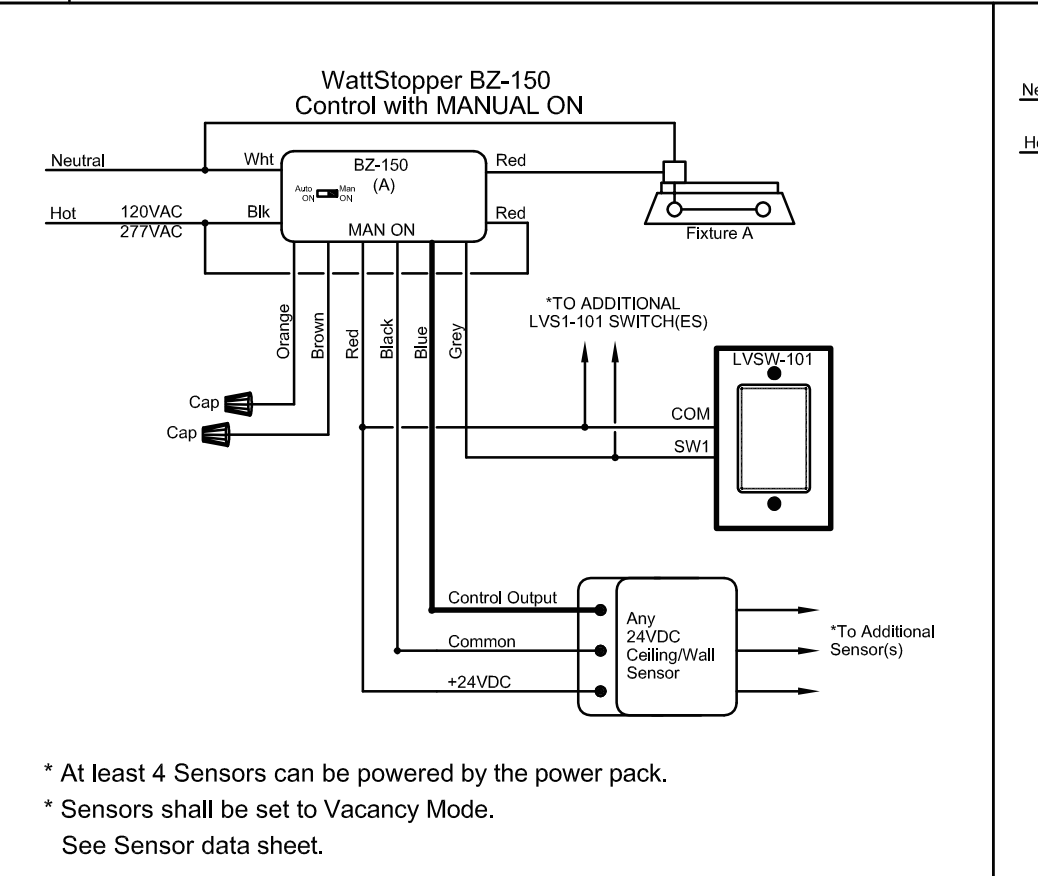


**FIRE ALARM RISER GENERAL NOTES:**

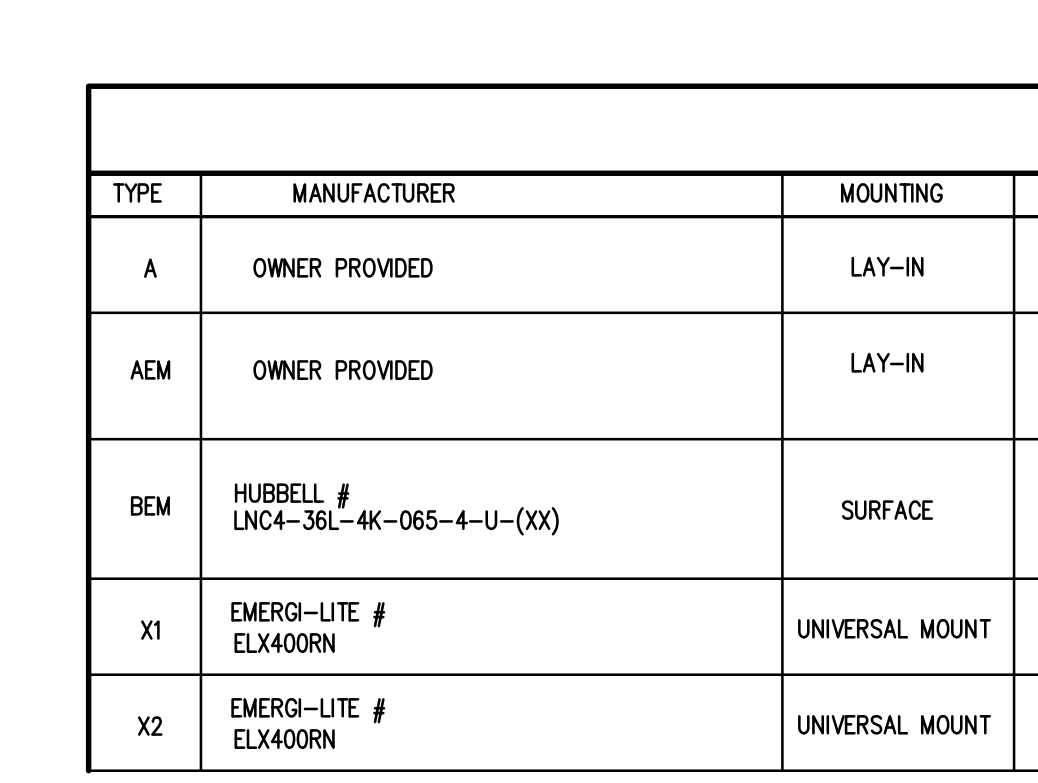
1. PROVIDE SPARE DEVICES AS NOTED IN THE TABLE FOR USE WHEN ADDITIONAL DEVICES ARE REQUIRED. THE DEVICES NOT USED SHALL BE GIVEN TO THE OWNER AT THE END OF THE JOB.
2. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE CANDELA OUTPUT OF ALL VISUAL FIRE ALARM DEVICES (STROBES). THE OUT PUT SHALL MEET THE REQUIREMENTS OF U.L., ANSI AND A.D.A. SUBMIT CANDELA OUTPUT WITH SHOP DRAWINGS.
3. PROVIDE FIRE ALARM REMOTE POWER SUPPLIES (RPS) AND CONNECT TO NEAREST 120V CIRCUITING AS REQUIRED TO POWER VISUAL DEVICES. REFER TO SPECIFICATIONS.



**1 LIGHTING ZONE DAYLIGHT HARVESTING**



**4 WATTSTOPPER POWER PACK MANUAL ON - NO DIMMING**

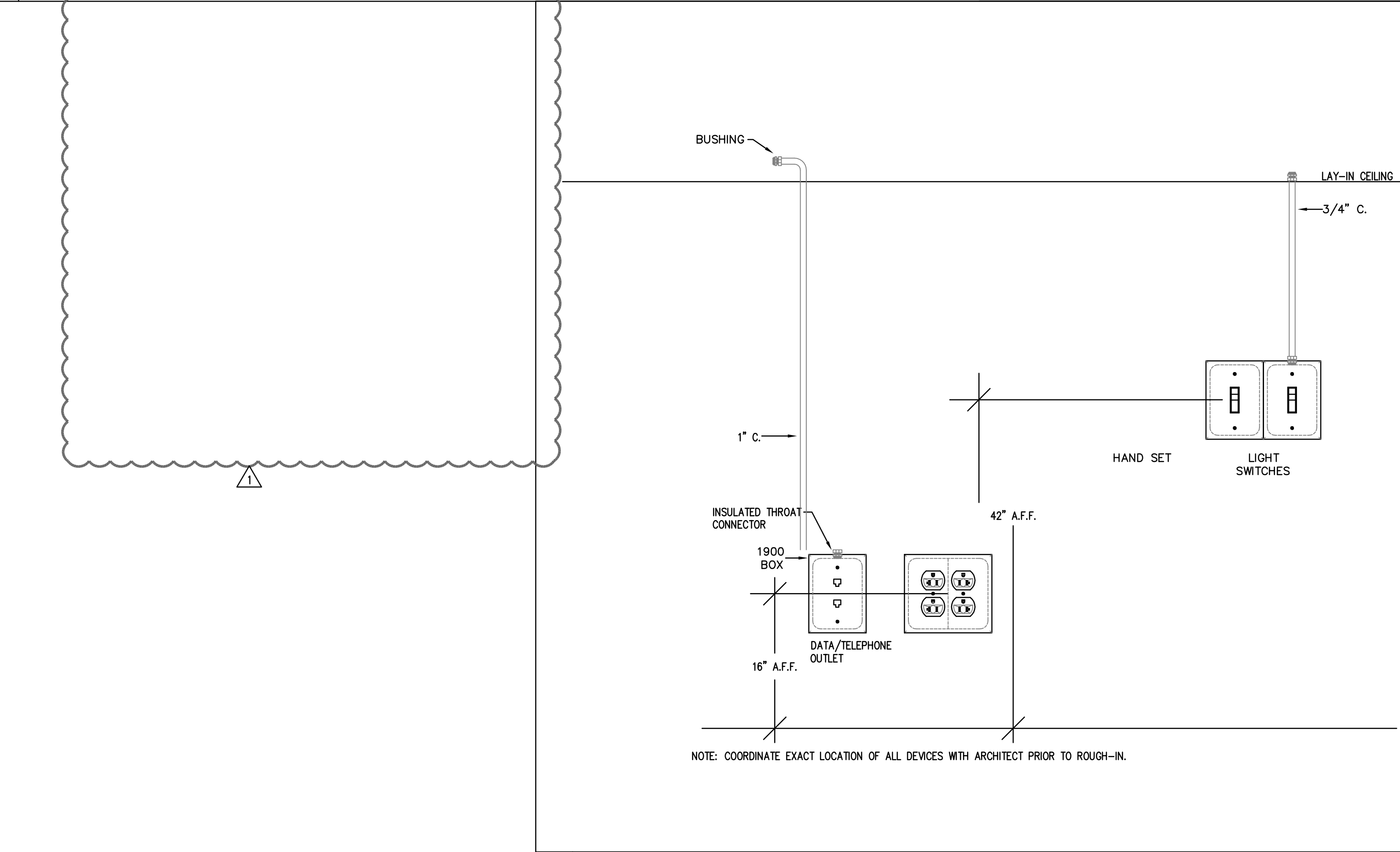


**3 WATTSTOPPER POWER PACK - MANUAL ON WITH SINGLE ZONE DIMMING**

| TYPE | MANUFACTURER                       | MOUNTING        | LAMPS     | VOLTS | REMARKS   |
|------|------------------------------------|-----------------|-----------|-------|---|
| A    | OWNER PROVIDED                     | LAY-IN          | 41.7W LED | UNV   | 2'x4' LED LAY-IN.   |
| AEM  | OWNER PROVIDED                     | LAY-IN          | 41.7W LED | UNV   | 2'x4' LED LAY-IN.   |
| BEM  | HUBBELL # LNC4-36L-4K-065-4-U-(xx) | SURFACE         | 70W LED   | 120   | LED WALL SCONCE. PARENTHESIS "XX" INDICATED FINISH TO BE SELECTED BY ARCHITECT. EQUIPPED WITH INTEGRAL BATTERY BACKUP LED DRIVER WITH HEATER RATED FOR -22F. PROVIDE UNSWITCHED HOT WIRE. |
| X1   | EMERG-LITE # ELX400RN              | UNIVERSAL MOUNT | LED       | UNV   | SINGLE FACE EXIT SIGN WITH RED STENCIL FACE.  |
| X2   | EMERG-LITE # ELX400RN              | UNIVERSAL MOUNT | LED       | UNV   | DOUBLE FACE EXIT SIGN WITH RED STENCIL FACE.  |

**LIGHT FIXTURE SCHEDULE (BLDG. A and B)**

**2 FIRE ALARM RISER DIAGRAM (BUILDING 'A')**



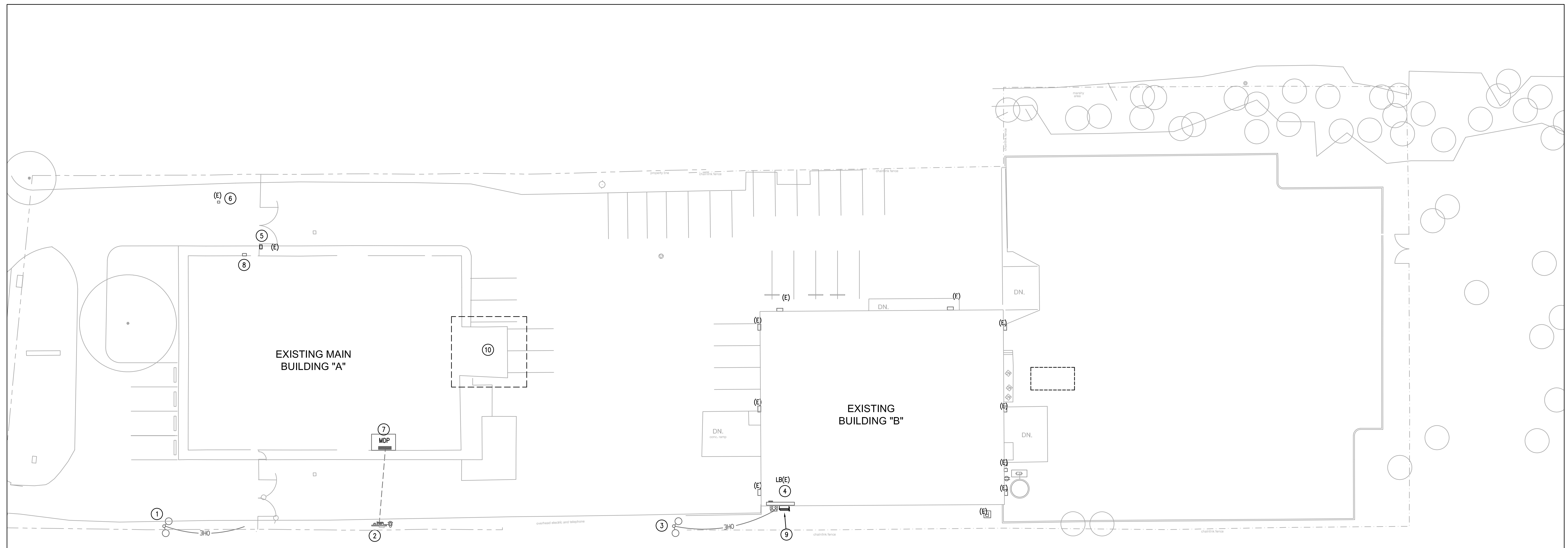
**5 TYPICAL DEVICE ELEVATIONS**

**1 ELECTRICAL DETAILS AND SCHEDULES**

**JONES\*DBR**  
STATE OF TEXAS REGISTERED PROFESSIONAL ENGINEER  
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WM RM JG RS --



NOTE:  
THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER AND/OR GAS LINES, THAT MAY BE BURIED IN AREA OF NEW CONSTRUCTION OR WHEN DIGGING NEW TRENCH FOR NEW FEEDERS.

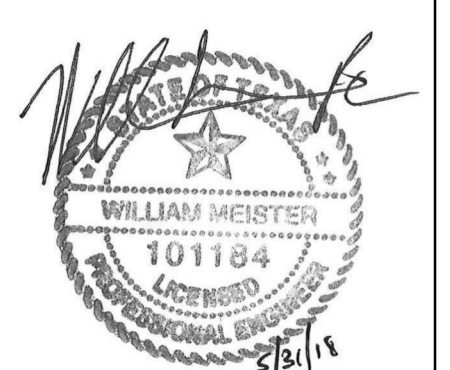
**ELECTRICAL KEYED NOTES:**

1. EXISTING BUILDING "A" 120/240V/3PH/4W WITH 208V HI-LEG POWER CO. UTILITY TRANSFORMER POLE.
2. EXISTING BUILDING "A" 400A/3P/NE3R MAIN DISCONNECT AND DEMAND METER ON A FREESTANDING RACK TO REMAIN.
3. EXISTING BUILDING "B" 120/240V/3PH/4W WITH 208V HI-LEG POWER CO. UTILITY TRANSFORMER POLE.
4. EXISTING BUILDING "B" 120/240V/3PH/4W WITH 208V HI-LEG SERVICE WIRING GUTTER AND ELECTRICAL GEAR TO REMAIN.
5. EXISTING MOTORIZED GATE OPERATOR TO BE DISCONNECTED. KEEP EXISTING WIRING TO RECONNECT TO NEW MOTOR GATE UNIT.
6. EXISTING MOTORIZED GATE KEY PAD.
7. EXISTING 400A, 120/240V/3PH/4W MAIN DISTRIBUTION PANEL "MDP". REFER TO ONE LINE DIAGRAM SHEET E2.01.
8. EXISTING "KNOX" BOX.
9. EXISTING 400A, NEMA-3R MAIN FUSED DISCONNECT SWITCH TO BE DISCONNECTED AND REPLACED. REFER TO ONE LINE DIAGRAM #1/E3.02.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING DEMOLITION IN THIS AREA. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, LIGHT CONTROLS, FIRE ALARM DEVICES, DATA/COMM PLATES ETC. IN THE AREA OF BUILDING DEMOLITION. REMOVE CONDUIT AND WIRE BACK TO POINT OF SOURCE. MAINTAIN CIRCUIT CONTINUITY TO REMAINING RECEPTACLES, LIGHTS, DEVICES.

**ELECTRICAL GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL ELEVATION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION WORK.
3. RE-ESTABLISH SERVICE TO ANY CIRCUITS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
4. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR MORE DETAILED INFORMATION AND FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES OR DEVICES BEING REMOVED.
6. ELECTRICAL CONTRACTOR SHALL RUN AND INSTALL ALL EXPOSED JUNCTION BOXES AND CONDUITS IN A GOOD WORKMANLIKE MANNER.
7. ALL CONDUIT INSTALLED ON THE EXTERIOR SHALL BE SCHEDULE 40 PVC AND ALL JUNCTION BOXES PVC. ALL FASTENING SCREWS SHALL BE STAINLESS STEEL TO KEEP FROM RUSTING.

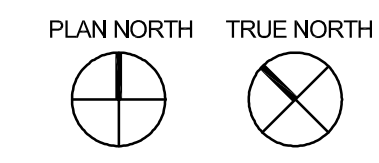
**1 ELECTRICAL SITE PLAN**  
E101 1" = 20'-0"



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WM RM JG RS --



DATE: 05-02-2018  
DESIGNED BY: JONES DBR  
DRAWN BY: JONES DBR  
REVIEWED BY: JONES DBR  
REVISED: 05/31/2018  
ADDENDUM #1  
REVISED:

**SHEET TITLE**  
ELECTRICAL  
SITE PLAN

**SHEET NUMBER**

E101