

ORANGE COUNTY REGIONAL HISTORY CENTER CHILLER AND CRAC REPLACEMENT

ORANGE COUNTY MAYOR
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MAY 31, 2016

ATKINS

482 SOUTH KELLER ROAD
ORLANDO, FLORIDA 32810

| Sheet Number | Sheet Name | Scale | Sheet Issued |
|--------------|--|------------|--------------|
| M-000 | COVER SHEET AND SHEET INDEX | No Scale | Yes |
| M-001 | HVAC SYMBOLS LEGEND AND GENERAL NOTES | No Scale | Yes |
| MD-101 | HVAC FIRST AND SECOND LEVEL DEMOLITION PLANS | 1/4"=1'-0" | Yes |
| MD-102 | HVAC FIFTH AND ROOF LEVEL DEMOLITION PLANS | 1/4"=1'-0" | Yes |
| M-101 | HVAC FIRST, SECOND AND LOW ROOF NEW WORK PLANS | 1/4"=1'-0" | Yes |
| M-102 | HVAC FIFTH AND ROOF LEVEL NEW WORK PLANS | 1/4"=1'-0" | Yes |
| M-201 | HVAC DETAILS | No Scale | Yes |
| M-202 | HVAC DETAILS | Varies | Yes |
| M-301 | HVAC CONTROLS AND SCHEDULES | No Scale | Yes |
| E-001 | ELECTRICAL SYMBOL, LEGEND, ABBREVIATIONS & GENERAL NOTES | No Scale | Yes |
| ED-101 | ELECTRICAL DEMOLITION PLANS FIRST AND SECOND LEVEL | 1/4"=1'-0" | Yes |
| ED-102 | ELECTRICAL DEMOLITION PLANS FIFTH AND ROOF LEVEL | 1/4"=1'-0" | Yes |
| EP-101 | ELECTRICAL NEW WORK PLANS FIRST AND SECOND LEVEL | 1/4"=1'-0" | Yes |
| EP-102 | ELECTRICAL NEW WORK PLANS FIFTH AND ROOF LEVEL | 1/4"=1'-0" | Yes |

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PROJECT NAME:

Orange County Regional History Center

65 E Central Blvd, Orlando, FL 32801

100048247

No. Date Description

ISSUE LOG

PROFESSIONAL SEALS:

Thomas J. Farmer
FL Reg No. 58890

SHEET TITLE:

COVER SHEET AND SHEET
INDEX

SHEET INFORMATION:

JOB No. **100048247** Date Issued: 05/31/16

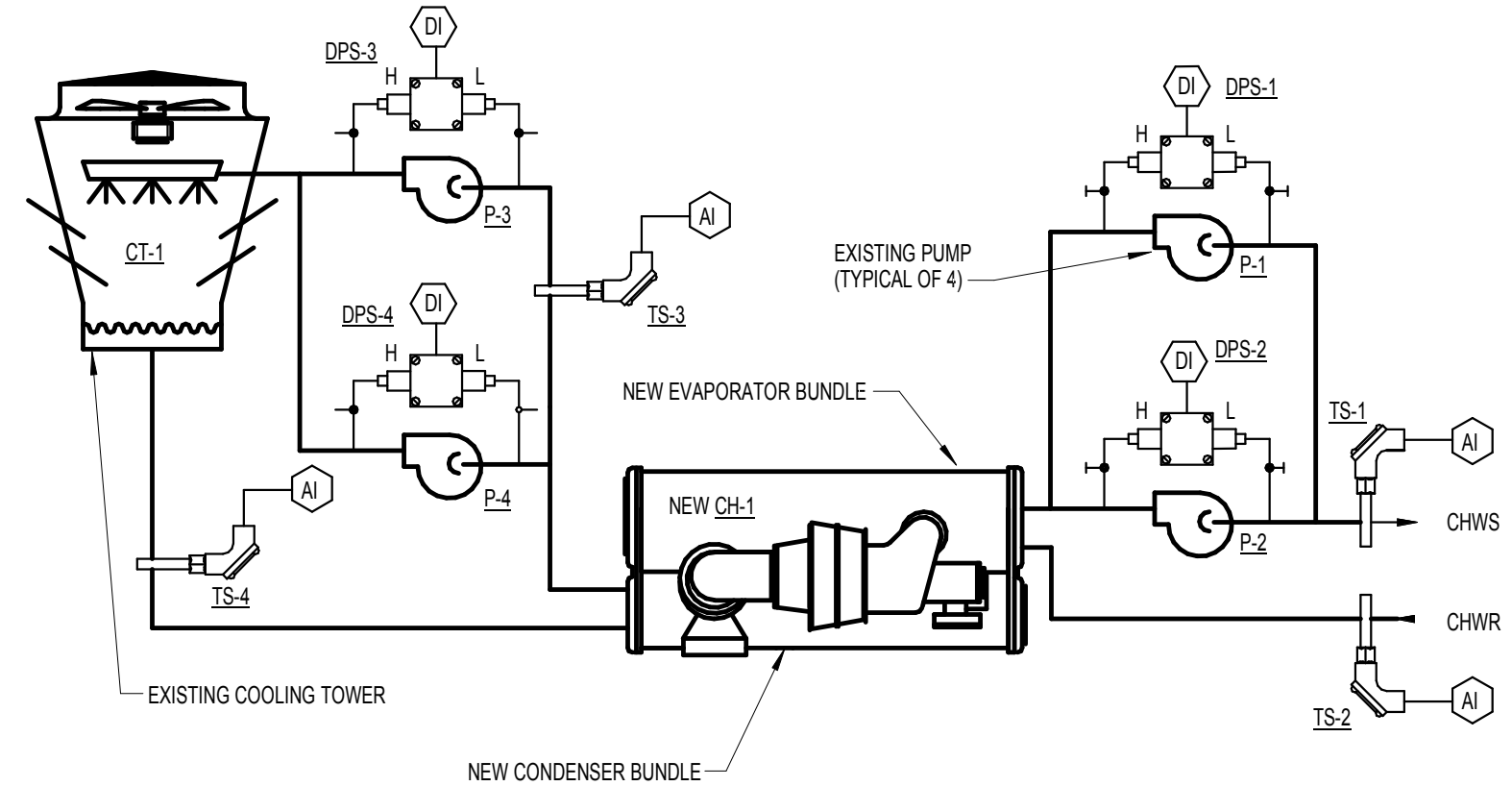
Designed By: KAR Sheet Number:

Checked By: DLH

OC Review: T.J.F.

Phase: **BID**

M-000



- NOTES:
1. THE ABOVE SCHEMATIC IS BASED ON EXISTING AS-BUILT DRAWINGS. CONTRACTOR TO VERIFY EXISTING POINTS.
 2. CONNECT CHILLER CONTROL PANEL TO EXISTING DDC SYSTEM.
 3. MATCH EXISTING SEQUENCE OF OPERATIONS.

A CHILLED WATER SCHEMATIC - EXISTING
SCALE: NO SCALE

SEQUENCE OF OPERATIONS:
THE EXISTING SYSTEM IS CONSTANT VOLUME PRIMARY WITH CONSTANT SPEED CHILLED WATER AND CONDENSER WATER PUMPS AND SINGLE CELL COOLING TOWER. THE NEW CHILLER SHALL OPERATE AS CONSTANT VOLUME.

MAINTAIN EXISTING SEQUENCE OF OPERATIONS TO MAINTAIN LEAVING WATER TEMPERATURE OF 45 DEGREES F. COORDINATE WITH EXISTING BAS MANUFACTURER (SIEMENS) TO DISCONNECT EXISTING POINTS AND RECONNECT POINTS TO NEW CHILLER. PROVIDE NECESSARY EQUIPMENT TO CONNECT NEW CHILLER BAS POINTS TO EXISTING SIEMENS CONTROLS.

REFRIGERATION MONITORING:
THE REFRIGERANT GAS MONITOR CONTROL MODULE SHALL MONITOR REFRIGERANT VAPOR CONCENTRATION IN THE MECHANICAL ROOM VIA AN INFRARED REFRIGERANT SENSOR. UPON A SIGNAL FROM EMERGENCY PUSH BUTTON OR IF THE VAPOR CONCENTRATION EXCEEDS THE VAPOR DETECTOR'S UPPER DETECTION LIMIT OR 25 PERCENT OF THE LEL, WHICH EVER IS LOWER, THE CHILLER COMPRESSOR SHALL BE SHUTDOWN. THE REFRIGERATION PURGE FAN ON THE ROOF SHALL EXIST AND THE HORN/STROBE AT EACH MECHANICAL ROOM ENTRANCE SHALL BE ACTIVATED. CONNECT ALARM OUTPUT TO EXISTING DDC CONTROLS. PURGE FAN SHALL BE MANUALLY RESET PER NFPA 12015 SECTION 53.2.3.3.

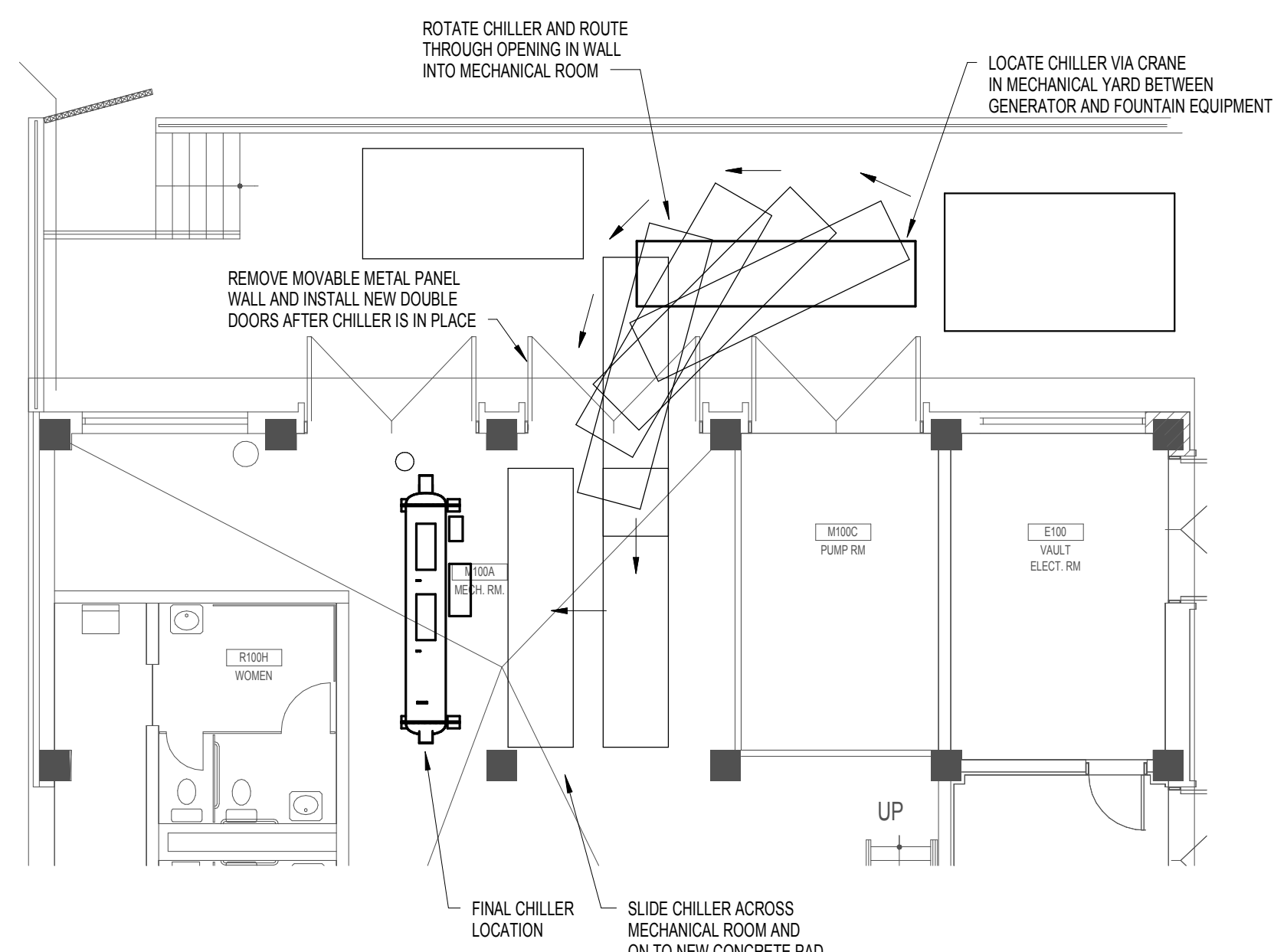
| | | DDC POINT SCHEDULE | | | | | | | | | | | | | | | | | | |
|--------|-------------------|--------------------|--------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|------------|---------------------------|----------------------------|-----------------|----------------------------------|-----------------------------------|----------------------------|-------------------------------|----------------|----------------|-------|----------------------------|--------------------------------|
| | | ANALOG | | | | BINARY | | | | ALARMS | | PROGRAMS | | | | | | | | |
| SYSTEM | POINT DESCRIPTION | INPUT | | OUTPUT | | INPUT | | OUTPUT | | | | | | | | | | | | |
| | | CHILLER | COMMUNICATIONS INTERFACE | CONDENSER INLET TEMPERATURE | EVAPORATOR INLET TEMPERATURE | CONDENSER OUTLET TEMPERATURE | EVAPORATOR OUTLET TEMPERATURE | WATER FLOW | CONTROL VALVE - CONDENSER | CONTROL VALVE - EVAPORATOR | STATUS (ON/OFF) | FLUID FLOW DETECTION - CONDENSER | FLUID FLOW DETECTION - EVAPORATOR | REFRIGERANT LEAK DETECTION | EMERGENCY VENTILATION STARTER | ABOVE SETPOINT | BELOW SETPOINT | FAULT | STATUS ON - COMMUNICATIONS | STATUS ON - COMMUNICATIONS OFF |

B SEQUENCE OF OPERATIONS & DDC POINT SCHEDULE
SCALE: NO SCALE

- PHASING PLAN:**
WATER-COOLED CHILLER REPLACEMENT:
- CURRENTLY A TEMPORARY AIR COOLED CHILLER IS LOCATED IN THE PARKING LOT. CHILLED WATER HOSES FROM THE TEMPORARY CHILLER ARE CONNECTED TO CHILLED WATER TAPS IN THE WALL OF THE MECHANICAL ROOM. THE WALL THAT THE CHILLED WATER TAPS ARE CURRENTLY IN IS A MOVABLE METAL PANEL THAT IS ABLE TO BE MOVED UP.
1. DE-ENERGIZE AND LOCK OUT ELECTRICAL POWER SUPPLY TO EXISTING CHILLER.
 2. CLOSE THE FOUR (4) BUTTERFLY ISOLATION VALVES ON THE CHWSR AND CHWSR PIPING. DRAIN DOWNSTREAM PIPING AND DETACH THE PIPING BETWEEN THE VALVES AND THE EXISTING CHILLER.
 3. DISCONNECT EXISTING CHILLERS FROM ELECTRICAL WIRING. REMOVE ELECTRICAL STARTER AND CONCRETE PAD (SEE ELECTRICAL DRAWINGS).
 4. DRAIN AND EMPTY EXISTING SAND FILTER TANK. REMOVE EXISTING SAND FILTER TANK AND ASSOCIATED PVC PIPING FROM MECHANICAL YARD.
 5. REMOVE THE EXISTING CHILLER THROUGH THE DOUBLE DOORS. REMOVE EXISTING CHILLER CONCRETE PADS.
 6. INSTALL HOSE ADAPTORS TO THE CHILLED WATER SUPPLY AND RETURN PIPING BELOW THE ISOLATION VALVES.
 7. PROVIDE TEMPORARY COOLING TO ALL NECESSARY SPACES WITHIN THE BUILDING. SEE SHEET M-001 FOR ACCEPTABLE TEMPERATURE AND HUMIDITY RANGES. COORDINATE DOWNTIME OF CHILLED WATER WITH THE COUNTY.
 8. DE-ENERGIZE THE TEMPORARY CHILLER. CLOSE THE ISOLATION VALVES ON THE EMERGENCY CHW TAPS. MOVE THE TEMPORARY CHILLER HOSE CONNECTIONS FROM THE EXISTING EMERGENCY CHW TAPS TO THE EXISTING CHWSR PIPING. OPEN THE CHWSR ISOLATION VALVES AND ENERGIZE THE TEMPORARY CHILLER. VERIFY THAT BUILDING CHILLED WATER IS PROVIDED BY THE TEMPORARY CHILLER. THE EXISTING CHILLED WATER PUMPS (P-1 AND P-2) IN THE MECHANICAL MEZZANINE SHALL BE USED IN LIEU OF THE TEMPORARY CHILLER PUMP.
 9. CLOSE ISOLATION VALVES ON EMERGENCY CHW TAP PIPING BRANCH AND DRAIN PIPING. REMOVE EXISTING EMERGENCY CHW TAPS FROM MOVABLE METAL PANEL. REMOVE PORTION OF EMERGENCY CHW TAP PIPING AS SHOWN ON DEMO PLAN.
 10. INSTALL NEW EMERGENCY CHW TAP PIPING EXTENDING THROUGH EXTERIOR WALL AND DOWN EXTERIOR FACE OF COLUMN AS SHOWN ON NEW PLAN. SEAL PIPE PENETRATIONS IN WALL WATERTIGHT. ANCHOR NEW PIPING TO EXTERIOR WALL.
 11. DE-ENERGIZE TEMPORARY CHILLER AND CLOSE ISOLATION VALVES ON THE EMERGENCY CHW TAPS. RELOCATE TEMPORARY CHILLER HOSES FROM EXISTING CHWSR PIPING TO NEW EMERGENCY CHW TAP LOCATIONS. OPEN ISOLATION VALVES AND ENERGIZE TEMPORARY CHILLER AND ASSOCIATED TEMPORARY PUMPS.
 12. POUR CONCRETE PAD FOR NEW CHILLER.
 13. NEW CHILLER SHALL BE DELIVERED ON-SITE THEN RELOCATED BY CRANE TO THE MECHANICAL YARD BETWEEN THE GENERATOR AND FOUNTAIN EQUIPMENT.
 14. TEMPORARILY RELOCATE #1 STORM DRAIN WITHIN MECHANICAL ROOM AND REMOVE PIPING TO ALLOW FOR CHILLER INSTALLATION. PROVIDE MEANS OF TEMPORARILY DRAINING THE #1 STORM PIPING.
 15. REMOVE THE EXISTING MOVABLE METAL PANEL WALL.
 16. LOCATE NEW CHILLER IN MECHANICAL ROOM THROUGH OPENING IN EXTERIOR WALL. INSTALL CHILLER ON CONCRETE PAD.
 17. INSTALL NEW DOUBLE DOORS. RECONNECT #1 STORM DRAIN PIPING.
 18. INSTALL NEW CHW AND CW PIPING CONNECTIONS FROM NEW CHILLER TO EXISTING PIPING.
 19. INSTALL POWER CONNECTIONS PER ELECTRICAL DRAWINGS.
 20. INSTALL CONTROLS CONNECTIONS TO EXISTING BMS.
 21. BRING NEW CHILLER ON LINE. COMMISSION AND TEST AND BALANCE CHILLED WATER SYSTEM.
 22. REMOVE TEMPORARY CHILLER, PUMPS AND HOSES.

- REPLACEMENT OF CRAC UNIT AND CONDENSING UNIT:**
1. VERIFY EXISTING VTB-1 FROM AHU-8 IS PROVIDING COOLING AND DEHUMIDIFICATION. PROVIDE TEMPORARY COOLING IF NECESSARY TO MEET SPACE REQUIREMENTS OF 70 DEGREES F AND 55% RH.
 2. REPLACE INDOOR CRAC UNIT AND CONDENSING UNIT ON ROOF.
 3. TEST AND BALANCE NEW SPLIT SYSTEM.

C PHASING PLAN
SCALE: NO SCALE



D CHILLER ROUTING PLAN
SCALE: 1/8" = 1'-0"

| Water Cooled Chiller Schedule | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------|-----------|------------------------|-------------|-----------------|-----|--------|--------|----------------|-----|--------|--------|---------------|---------------|----------|-----------------|----------------|-------|-------|-----|-----|---|
| Mark | Model No. | Min. Tons | Operating Weight (LBS) | Compr. Type | Evaporator Data | | | | Condenser Data | | | | Electric Data | | | | | | | | | |
| | | | | | Ent. Lvg. | GPM | # Pass | PD FT. | Ent. Lvg. | GPM | # Pass | PD FT. | NPLV KW/Ton | KW/Ton @ 100% | Total KW | Min. Cir. Amps. | Max. Fuse Size | Volts | Phase | | | |
| CH-1 | WMC290DC | 250 | 14440 | CENTRIFUGAL | 56 | 45 | 546 | 2 | 10.6 | 85 | 94.3 | 900 | 2 | 14.2 | 0.309 | 0.565 | 141.2 | 200 | 225 | 300 | 460 | 3 |

- NOTES:
1. PROVIDE DAKIN MAGNITUDE UTILIZING R-134A REFRIGERANT OR APPROVED EQUAL. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
 2. EACH CHILLER SHALL BE EQUIPPED WITH FACTORY SELECTED VIBRATION ISOLATOR PADS.
 3. THE CHILLER EFFICIENCY INDICATED IS THE MAXIMUM ELECTRICAL POWER PER UNIT OF NET REFRIGERATION EFFECT. IN ACCORDANCE WITH THE NON STANDARD PART-LOAD VALUE PERFORMANCE CRITERIA OF AS STANDARD 550590.88. REFER TO THE SPECIFICATIONS FOR EXACT RATING CONDITIONS.
 4. FURNISH WITH SINGLE POINT POWER CONNECTION. UNIT MOUNTED DISCONNECT SWITCH AND STARTER (VFD WITH FILTER).
 5. PROVIDE REFRIGERANT MONITORING CONTROL MODULE, INFRARED REFRIGERANT GAS SENSOR, CHILLER SHUTDOWN PUSH BUTTON AND HORN/STROBE AT EACH MECHANICAL ROOM ENTRANCE.

| Computer Room Unit Schedule - Type B | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------|-------------------------|------|--------------|-------------|----------|----------|-------|--------------|-------------------|----|----------|----------------------|--------------------|---------------|-----------|--------------------|-----------------|-------------|-----|-----|----|----------|
| Mark | Model No. | UNIT TYPE/CONFIGURATION | CFM | Ext. SP (IN) | Fan Data | | | | Cooling Coil | | | | Electric Reheat Coil | | | | Humidification | Electrical Data | | | | | |
| | | | | | Wheel Type | Motor HP | No. Fans | Volts | Phase | Design Conditions | | Capacity | | Capacity Total MBH | Max. Vel. FPM | Min. Rows | Capacity Total MBH | KW | CAP. LBS/HR | MCA | FLA | | |
| | | | | | | | | | | EAT (°F) DB | WB | RH % | LAT (°F) DB | | | | | | | | | WB | Ser. MBH |
| AC-1 | VS028AD | UPFLOW, AIR-COOLED | 4400 | 0 | CENTRIFUGAL | 2 | 2 | 460 | 3 | 71 | 55 | 35 | 51 | 46 | 96.6 | 96.6 | 259 | 3 | 51.2 | 15 | 11 | 40 | 31.3 |

- NOTES:
1. PROVIDE LIEBERT OR APPROVED EQUAL. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
 2. NUMBER OF REFRIGERATION CIRCUITS (STAGES OF COOLING): 2
 3. PROVIDE WITH SCR CONTROLLED ELECTRIC REHEAT SIMILAR TO SF46-2836-2
 4. PROVIDE INFRARED HUMIDIFIER, MERV 11 FILTERS, ODP NEMA PREMIUM EFFICIENCY MOTORS, SMOKE SENSOR WITH UNIT ALARM AND SHUTDOWN.
 5. PROVIDE CABLE LEAK DETECTION SYSTEM AROUND PERIMETER OF UNIT.
 6. PROVIDE UNIT CONTROLLER WITH NETWORK CONNECTIVITY TO BMS FOR UNIT MONITORING AND MANAGEMENT.
 7. PROVIDE UNIT WITH FACTORY INSTALLED CONDENSATE TRAP AND SUPPLY PLENUM WITH FRONT AND SIDE GRILLES.

| Air Conditioning Unit Schedule | | | | | | | | | | | | |
|--------------------------------|-----------|------------------|------------|-----------------|----------|----------------|-----|-------------|-------|---------|---------|-----------|
| Mark | Model No. | Cooling Capacity | | Electrical Data | | | | Piping Data | | | | |
| | | Min. MBH | Amb. Temp. | Ref. Type | No. Fans | Cond. FLA (EA) | MCA | Volts | Phase | LL O.D. | HG O.D. | No. Circ. |
| CU-1 | MCS056 | 98 | 100 | R-407C | 2 | 2.8 | 15 | 460 | 3 | 1/2" | 5/8" | 2 |

- NOTES:
1. PROVIDE LIEBERT OR APPROVED EQUAL. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
 2. REFRIGERANT PIPING SIZED BASED ON USING LONG RADIUS ELBOWS EXCEPT FOR SUCTION LINE TRAP AT CONDENSING UNIT.

| Fan Schedule | | | | | | | | | | | | | |
|--------------|-----------|--------------|-----------------|-----------------|---------------|---------|------|----|-------|-------|------------|-------------------|-------------|
| Mark | Model No. | TYPE | Design Air Flow | Sones Inlet/Rad | Static Press. | Fan RPM | RPM | HP | Volts | Phase | Drive Type | Fan Service | Accessories |
| EF-1 | G-143-A | ROOF MOUNTED | 2500 | 18.5 | 0.5 IN W.G. | 1725 | 1725 | 1 | 460 | 3 | DIRECT | REFRIGERANT PURGE | 1, 3, 4, 5 |

- NOTE:
1. PROVIDE GREENHECK OR APPROVED EQUAL.
- ACCESSORIES:
- | | | | |
|-----------------------|------------------------------|---|---------------------------|
| 1) BACKDRAFT DAMPER | 8) INLET SCREEN | 15) WEATHER COVER | 22) HINGED FRAMES |
| 2) THERMOSTAT | 9) CURB MOUNT ROOF JACK | 16) 2 SPEED / 1 WINDING | 23) SPARK/EXPLOSION PROOF |
| 3) BROSSCREEN | 10) SPEED CONTROLLER | 17) FILTERS | |
| 4) ROOF CURB | 11) WALL SHUTTER | 18) WALL COLLAR | |
| 5) DISCONNECT SWITCH | 12) VIBRATION ISOLATORS | 19) FAN GUARD/SCREEN | |
| 6) DRAIN | 13) WALL CAP | 20) COMPANION FLANGES | |
| 7) EQUIPMENT SUPPORTS | 14) WALL SHUTTER - MOTORIZED | 21) INSULATED HOUSING FOR SOUND CONTROL | |

| Air Distribution Schedule | | | |
|---------------------------|--|------------------|--|
| Mark | CFM Range & Neck Size | Face Size/Length | Description |
| A | SEE PLANS FOR CFM & SIZE. SIZE IS EQUAL TO DUCT SIZE | - | BASIS OF DESIGN: TITUS 350ZR OR APPROVED EQUAL. COLOR: WHITE. MATERIAL: ALUMINUM. OPPOSED BLADE DAMPER. NO. SINGLE 0° DEFLECTION, 3/4" SPACING |

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PROJECT NAME:

Orange County Regional History Center

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No. Date Description

ISSUE LOG

PROFESSIONAL SEALS:

Thomas J. Farmer
FL Reg No. 58890

SHEET TITLE:

HVAC CONTROLS AND SCHEDULES

SHEET INFORMATION:
JOB No. **100048247** Date Issued: 05/31/16
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Phase: **BID**

M-301

CONSULTANT:

CLIENT:



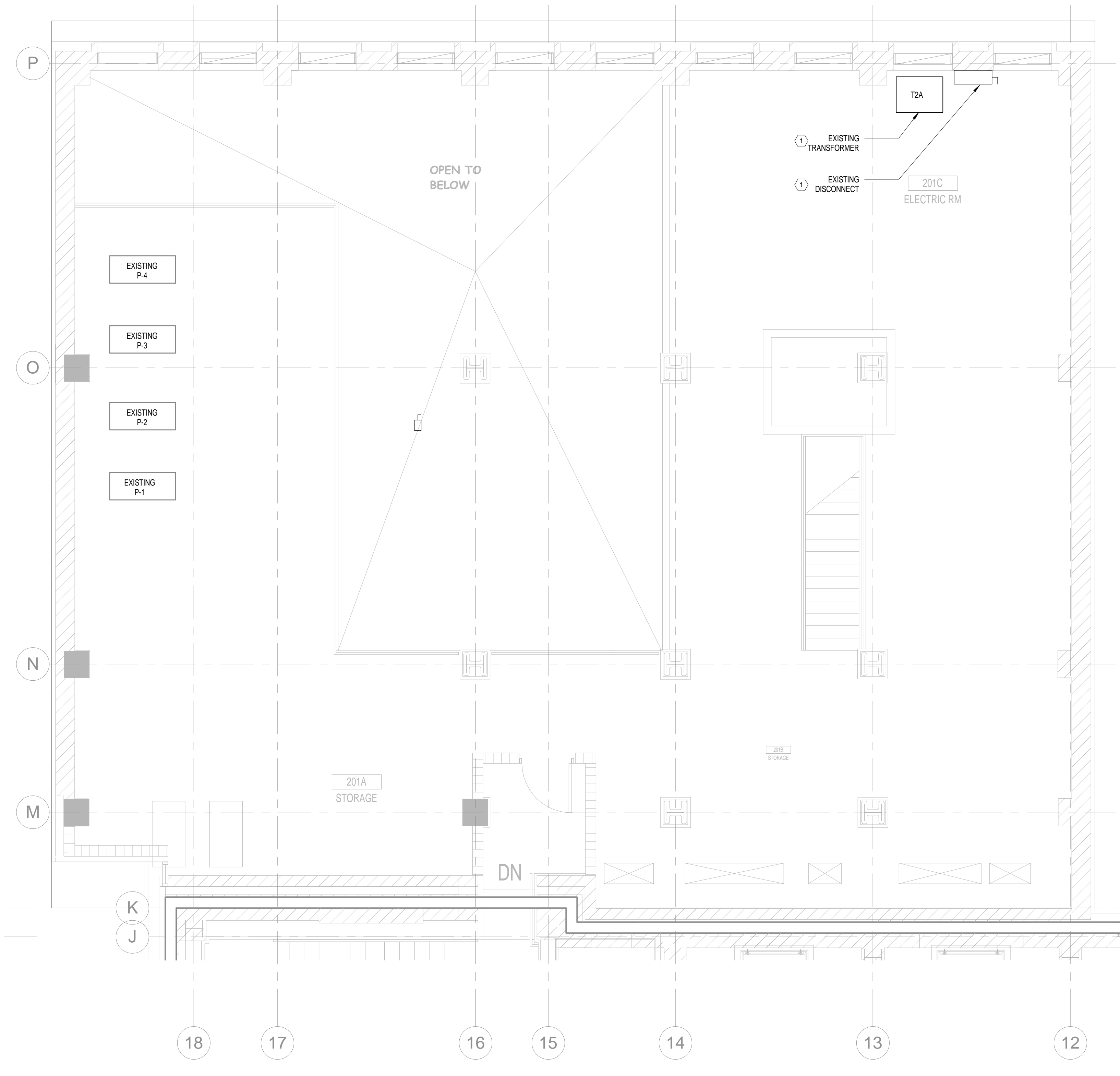
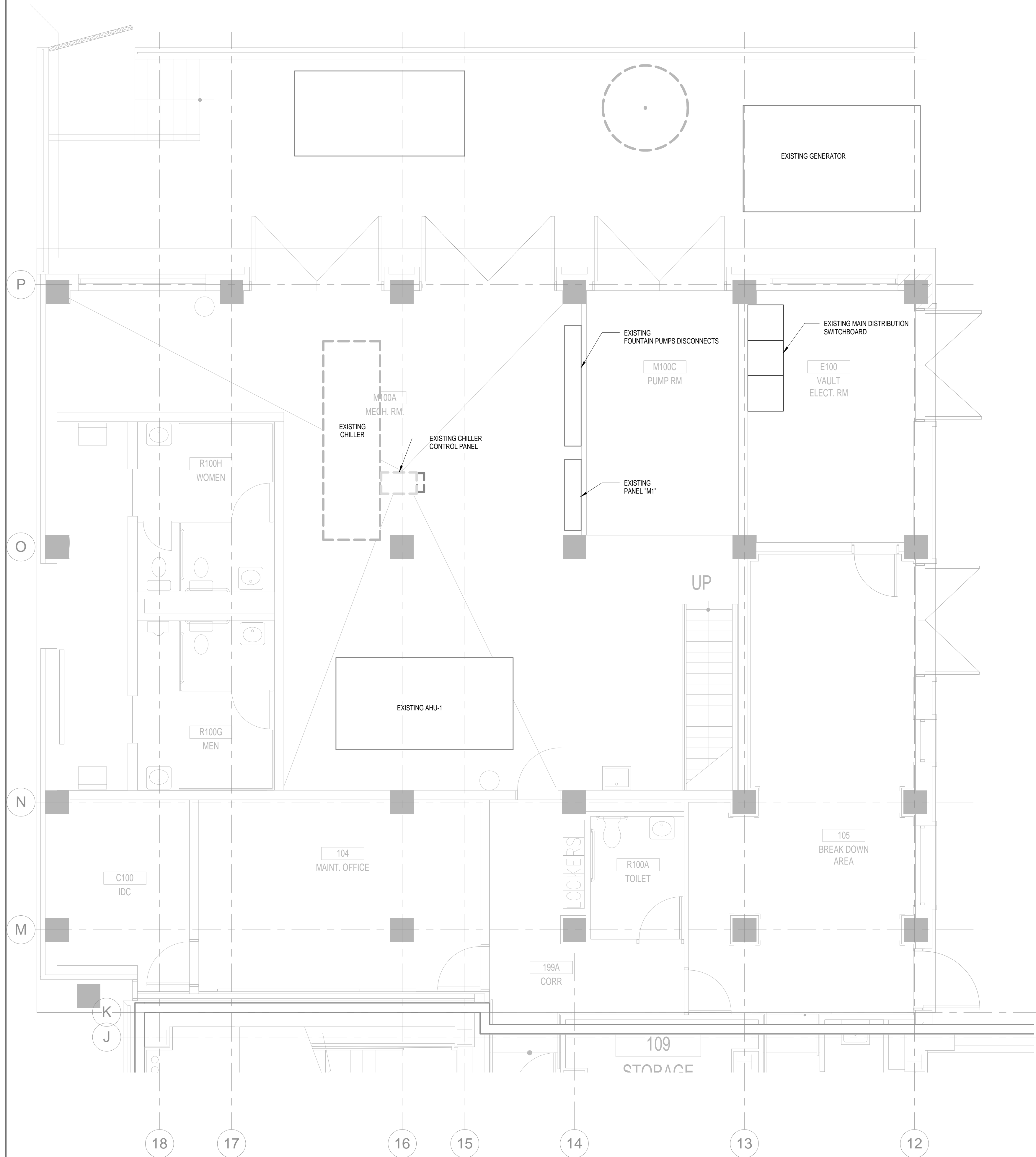
PROJECT NAME:

Orange County Regional History Center

65 E Central Blvd, Orlando, FL 32801

100048247

KEYED NOTE
 ① REMOVE EXISTING CHILLER TRANSFORMER "T2A". DISCONNECT SWITCH AND WIRES BACK TO "MDS" MAIN DISTRIBUTION SWITCHBOARD. REUSE (1) EXISTING 2" CONDUIT FROM NEW PULLBOX TO NEW CHILLER CONTROL PANEL. REMOVE 2nd AND 3rd 4" CONDUITS.



1 ELECTRICAL DEMOLITION PLAN - LEVEL 1
SCALE: 1/4" = 1'-0"

2 ELECTRICAL DEMOLITION PLAN - LEVEL 2
SCALE: 1/4" = 1'-0"

| No. | Date | Description |
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| | 05/02/16 | Permit & Bid Documents |
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ISSUE LOG
PROFESSIONAL SEALS:

Geary F. Heinrich
FL Reg No. 47215

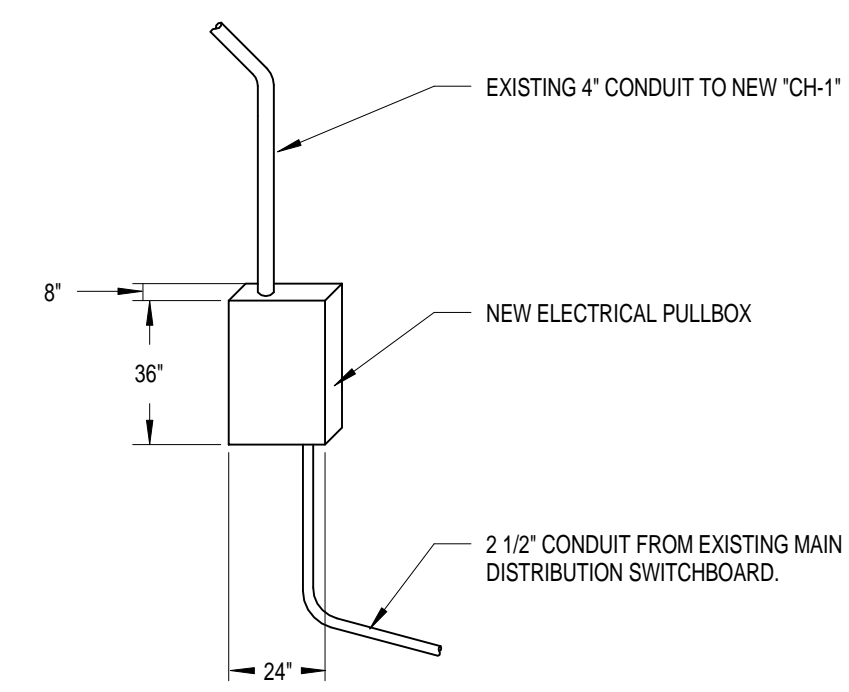
SHEET TITLE:
ELECTRICAL DEMOLITION
PLANS FIRST AND SECOND
LEVEL

SHEET INFORMATION:
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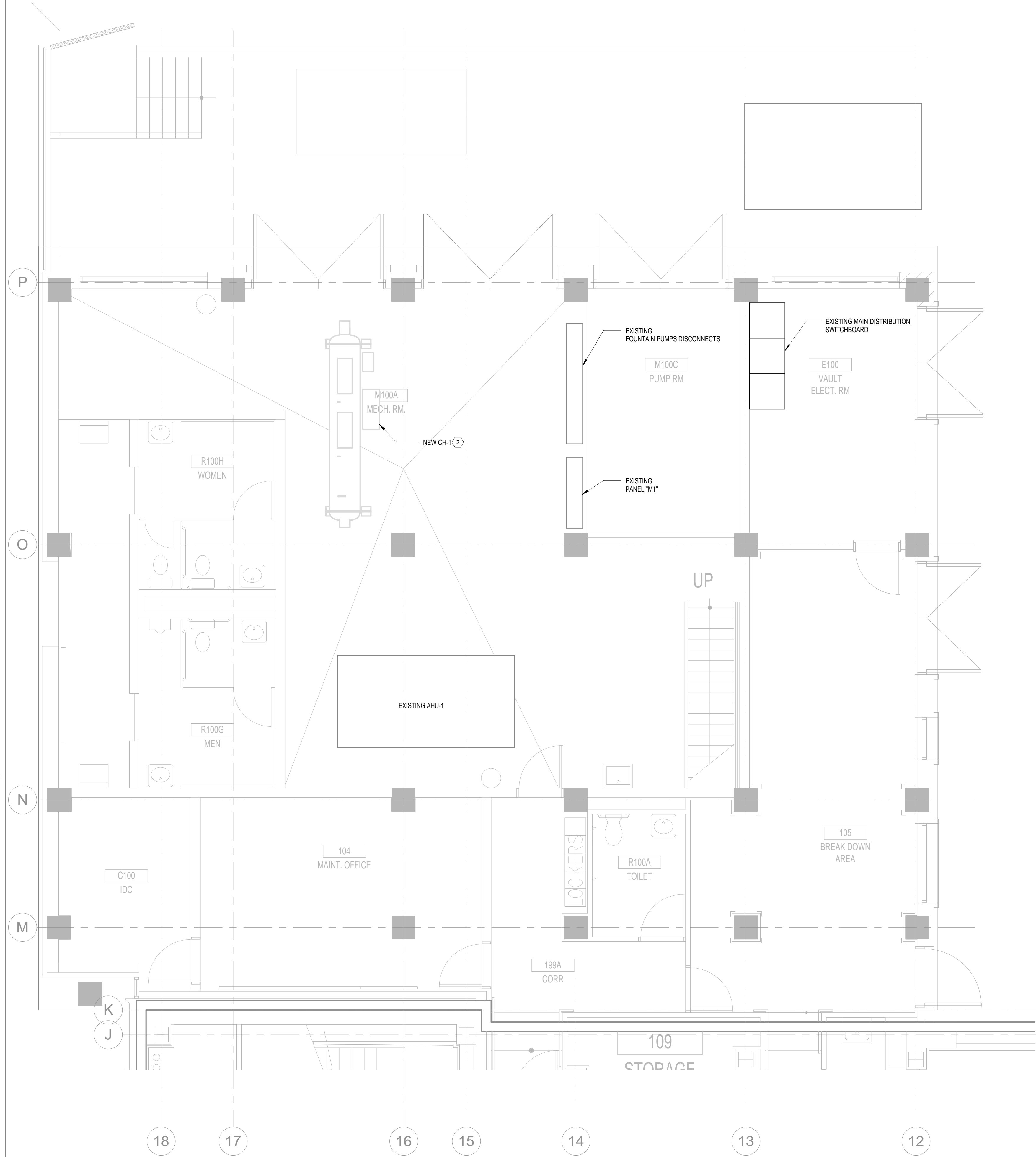
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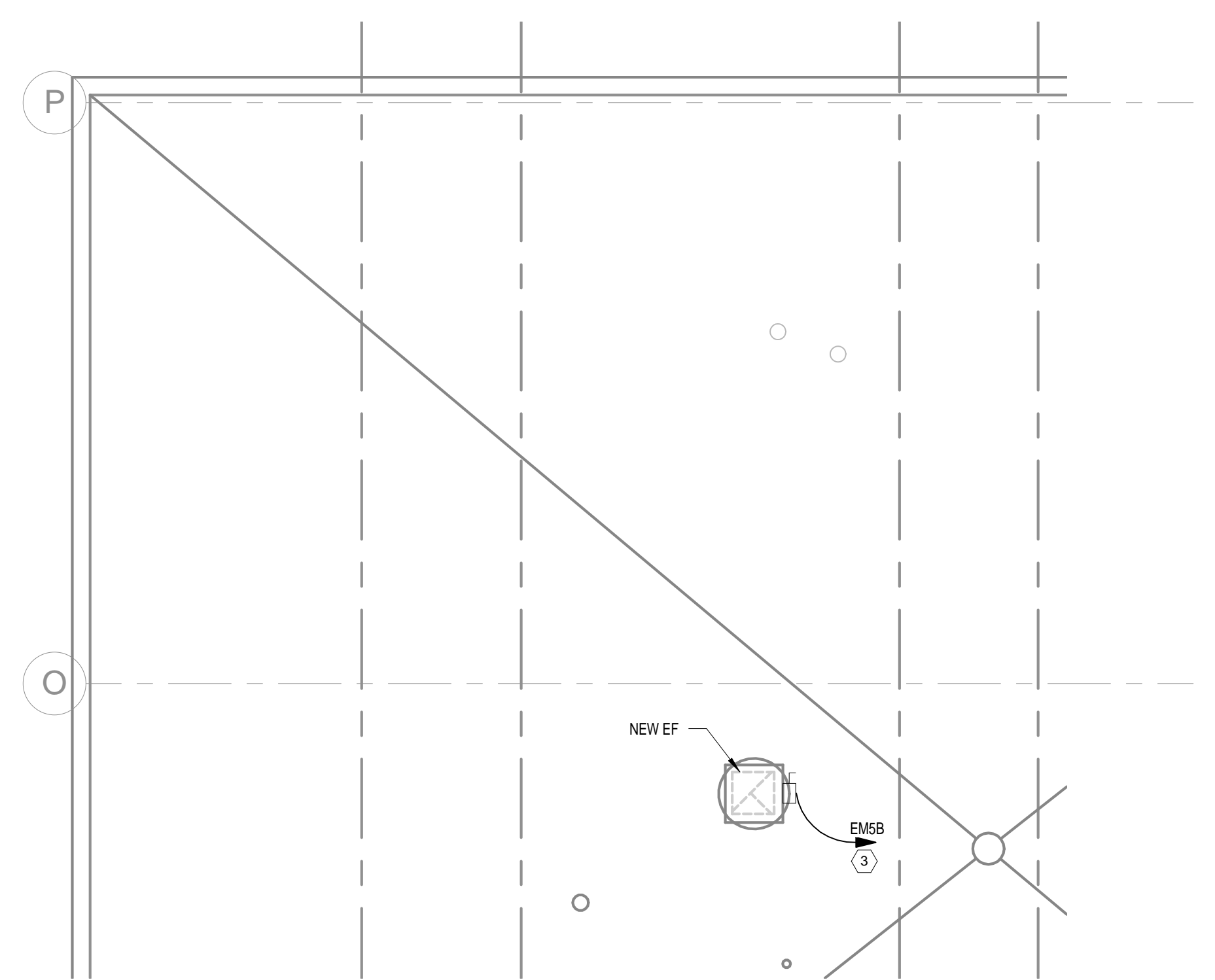
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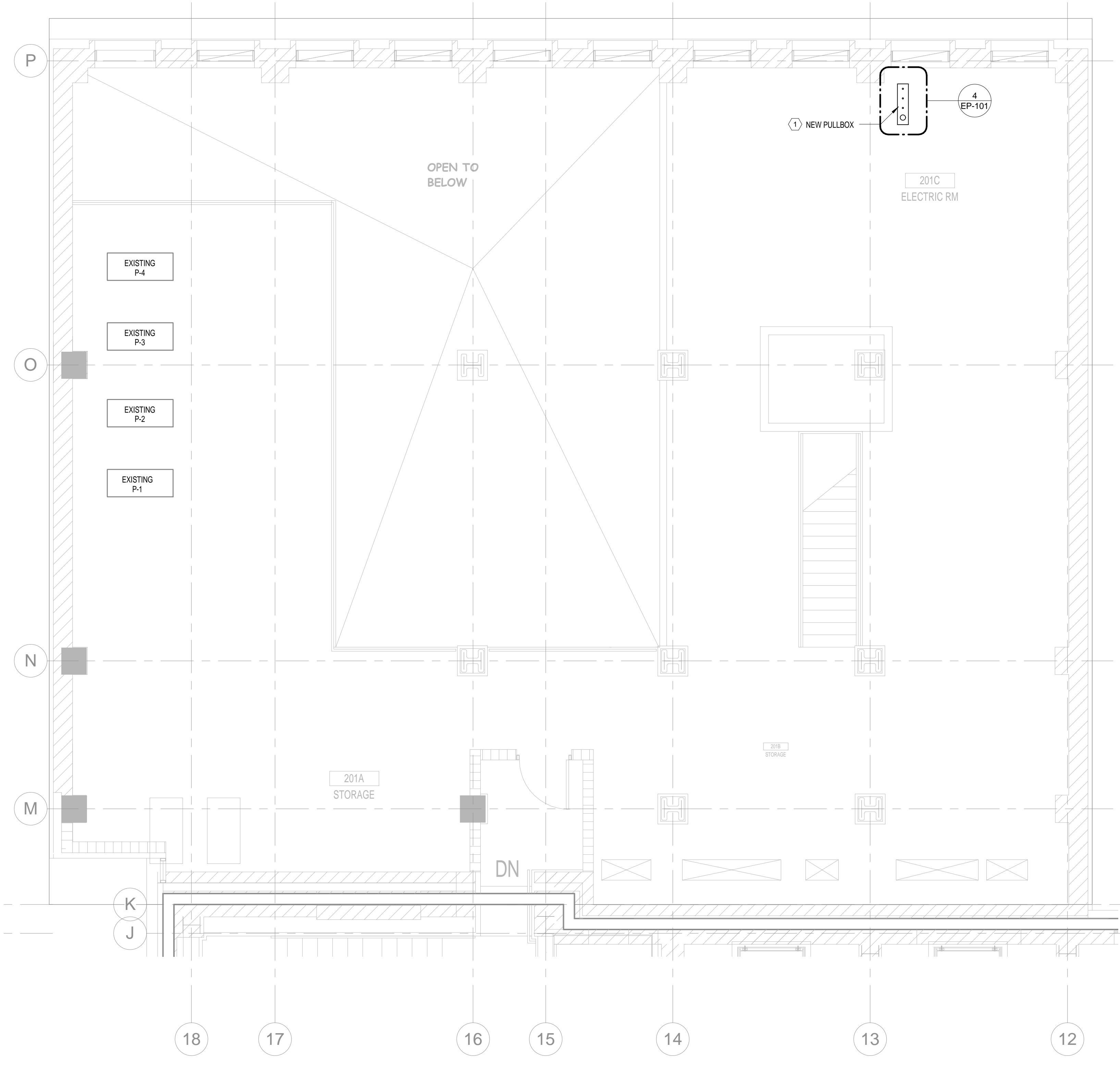
4 ELECTRICAL PULLBOX DETAIL
 SCALE: N.T.S.



1 ELECTRICAL NEW WORK PLAN - LEVEL 1
 SCALE: 1/4" = 1'-0"



3 ELECTRICAL NEW WORK PLAN - LOW ROOF PLAN
 SCALE: 1/4" = 1'-0"



2 ELECTRICAL NEW WORK PLAN - LEVEL 2
 SCALE: 1/4" = 1'-0"

- GENERAL NOTE:**
- SEE PARTIAL ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-001 FOR DISCONNECT, WIRE, BREAKER AND CONDUITS SIZE, ETC.
- KEYED NOTES:**
- PROVIDE NEW PULLBOX 24"x36"x8" IN ELECTRICAL ROOM 201C. REUSE EXISTING CONDUITS EXTEND TO NEW PULLBOX AS REQUIRED.
 - ROUTE NEW CONDUCTORS FROM EXISTING "M8" THROUGH NEW PULLBOX TO NEW CH-1 LOCATED IN MECHANICAL ROOM M100A. EXTEND 4" CONDUITS AS NEEDED TO NEW CHILLER CONTROL PANEL.
 - PROVIDE NEW 3-POLE BREAKER, CONDUIT AND WIRES. ROUTE CONDUIT AND WIRES TO PANEL "EMB". CONNECT NEW 3-POLE BREAKER TO SPACE AVAILABLE.

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ORANGE COUNTY GOVERNMENT
 FLORIDA

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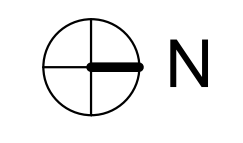
ISSUE LOG
 PROFESSIONAL SEALS:

Geary F. Heinrich
 FL Reg No. 47215

SHEET TITLE:
ELECTRICAL NEW WORK PLANS FIRST AND SECOND LEVEL

SHEET INFORMATION:
 JOB No. **100048247** Date Issued: 05/31/16
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EP-101



CONSULTANT:

CLIENT:



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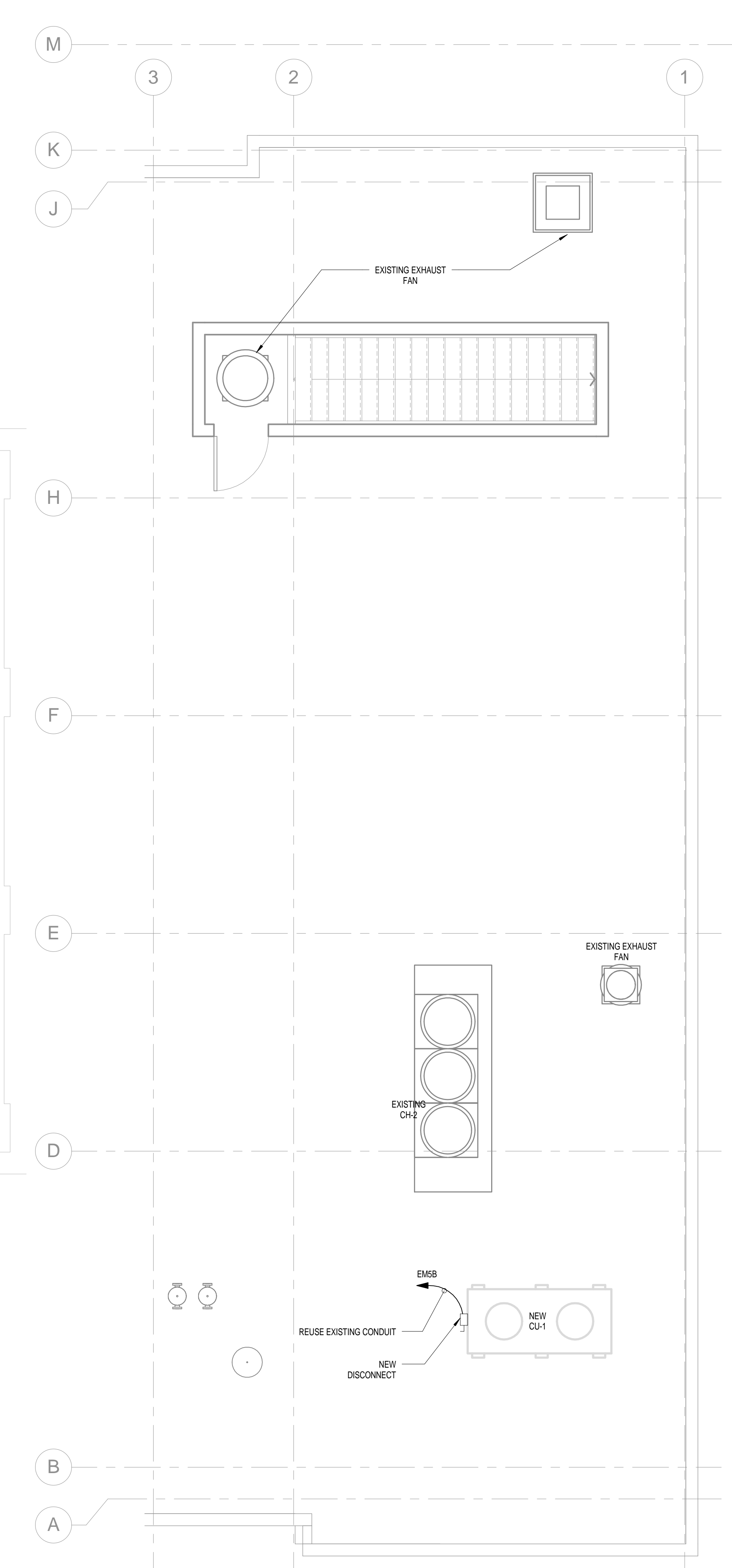
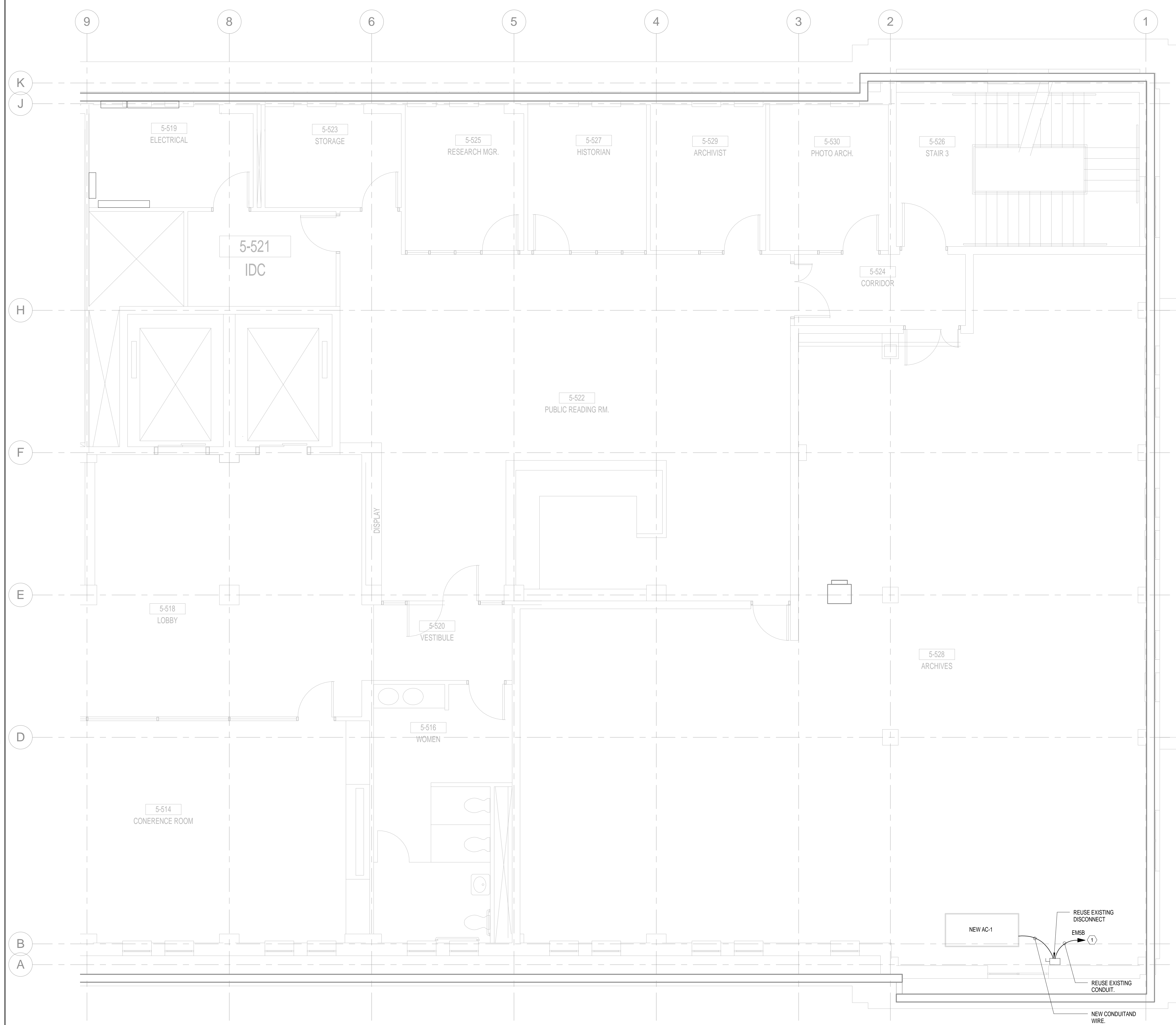
PROFESSIONAL SEALS:

Geary F. Heinrich
FL Reg No. 47215

SHEET TITLE:
**ELECTRICAL NEW WORK
PLANS FIFTH AND ROOF
LEVEL**

| SHEET INFORMATION: | |
|--------------------------|-----------------------|
| JOB No. 100048247 | Date Issued: 05/31/16 |
| Designed By: JLA | Sheet Number: |
| Checked By: GH | EP-102 |
| OC Review: GH | |
| Phase: BID | |

- GENERAL NOTE:**
- SEE PARTIAL ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-001 FOR DISCONNECT, WIRE, BREAKER AND CONDUITS SIZE, ETC.
- KEYED NOTE:**
- ROUTE CONDUIT AND WIRES TO PANEL "EMSB". SEE ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-001 FOR ADDITIONAL INFORMATION.



1 ELECTRICAL NEW WORK PLAN - LEVEL 5
SCALE: 1/4" = 1'-0"

2 ELECTRICAL NEW WORK PLAN - ROOF LEVEL
SCALE: 1/4" = 1'-0"

