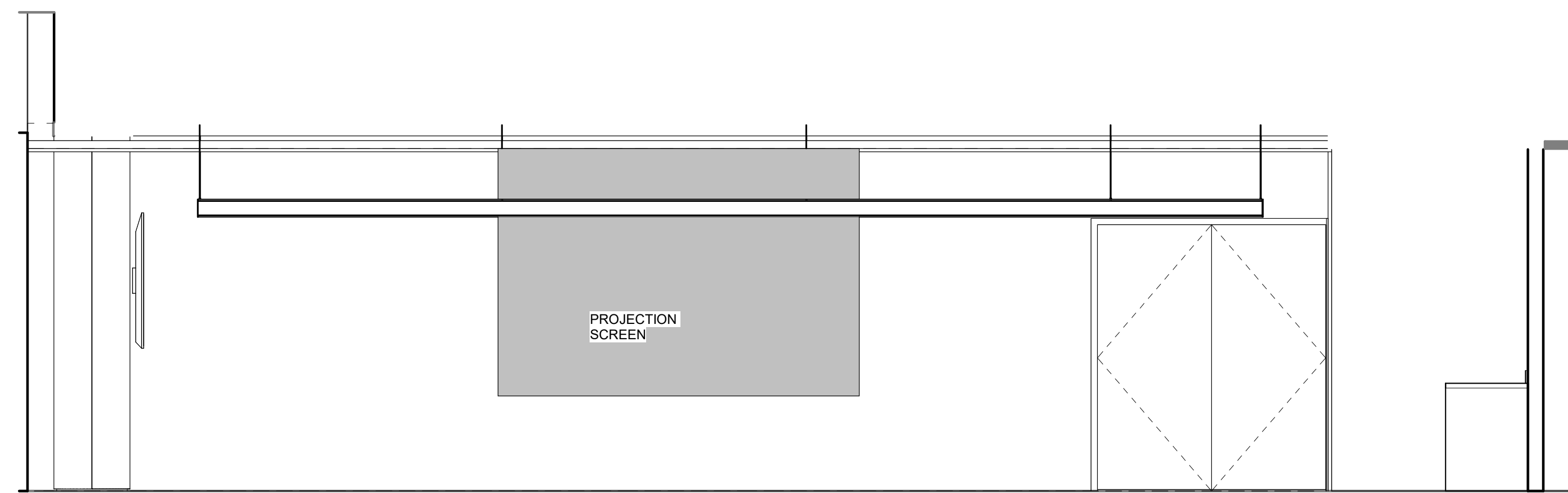
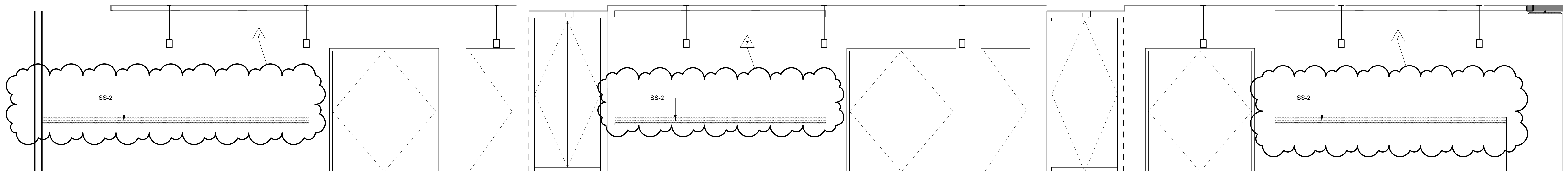


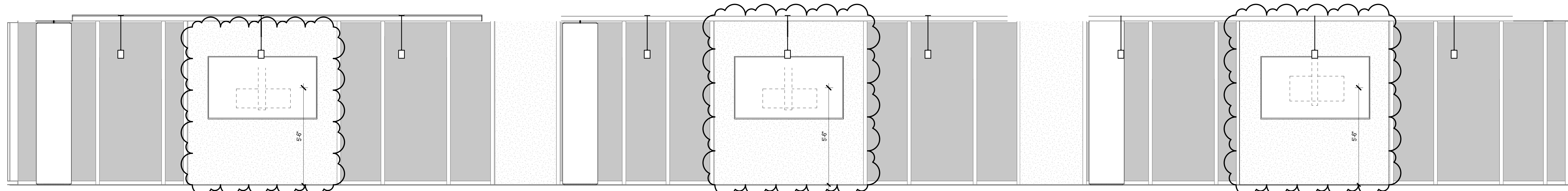
1 Building 2 - Level 3 - Enlarged Training Room Plan
SCALE: 1/4" = 1'-0"



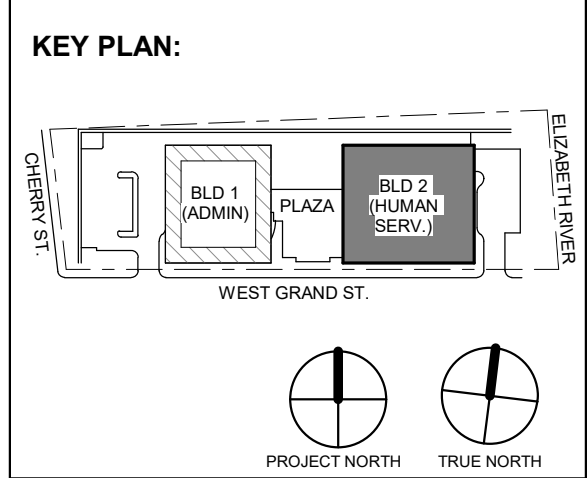
2 Building 2 - Training Room Interior Elevation - East
SCALE: 3/8" = 1'-0"



3 Building 2 - Training Room Interior Elevation - South
SCALE: 3/8" = 1'-0"



4 Building 2 - Training Room Interior Elevation - North
SCALE: 3/8" = 1'-0"



No.	Date	Description
7	01.12.2024	Addendum No. 7
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Jeffrey D. Vanezza, AIA
NJ RA AI 09827100

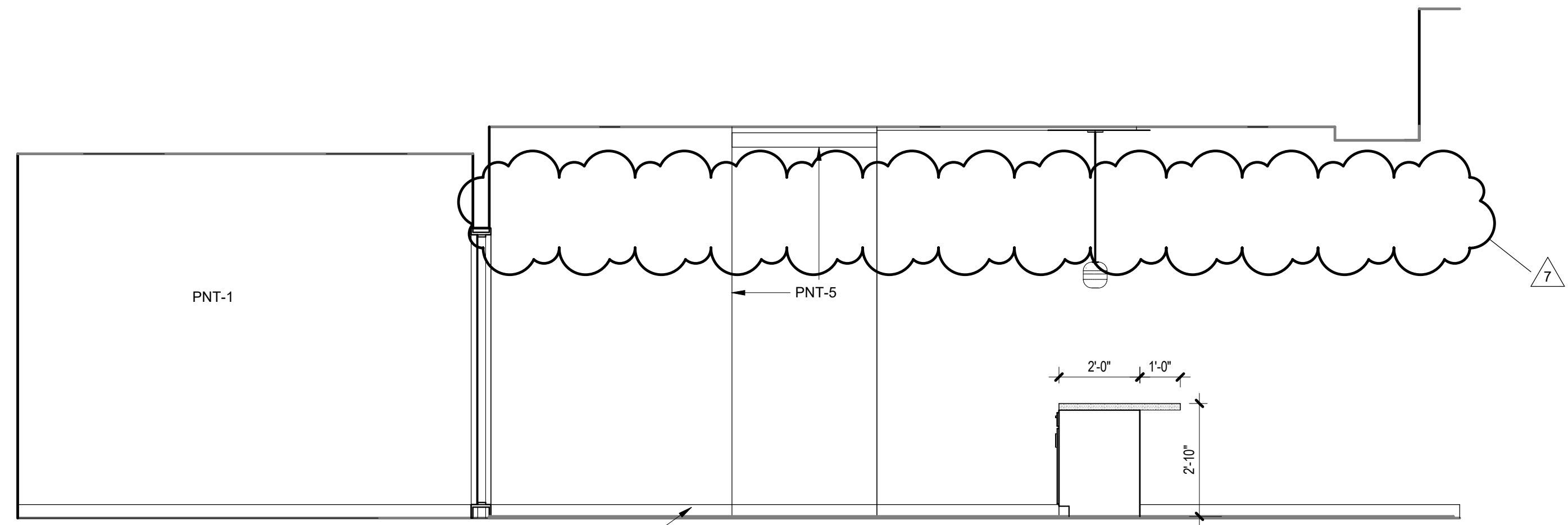
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

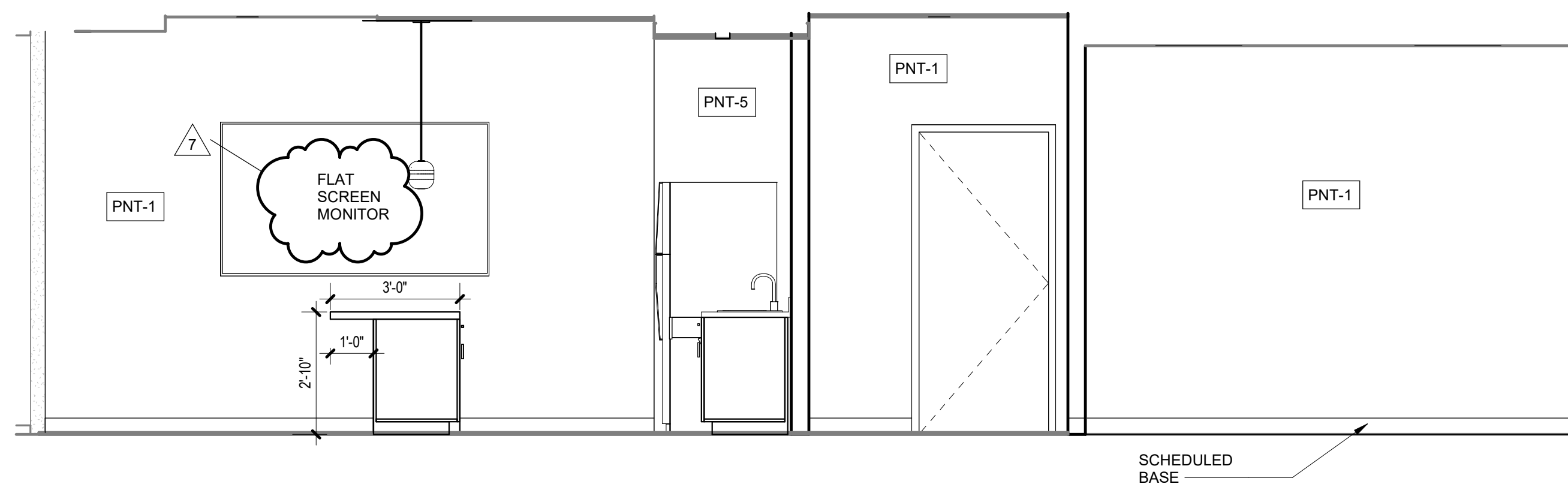
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: Author
Checked By: Checker

Sheet Name:
BUILDING NO. 2 - ENLARGED TRAINING ROOM PLAN AND INTERIOR ELEVATIONS

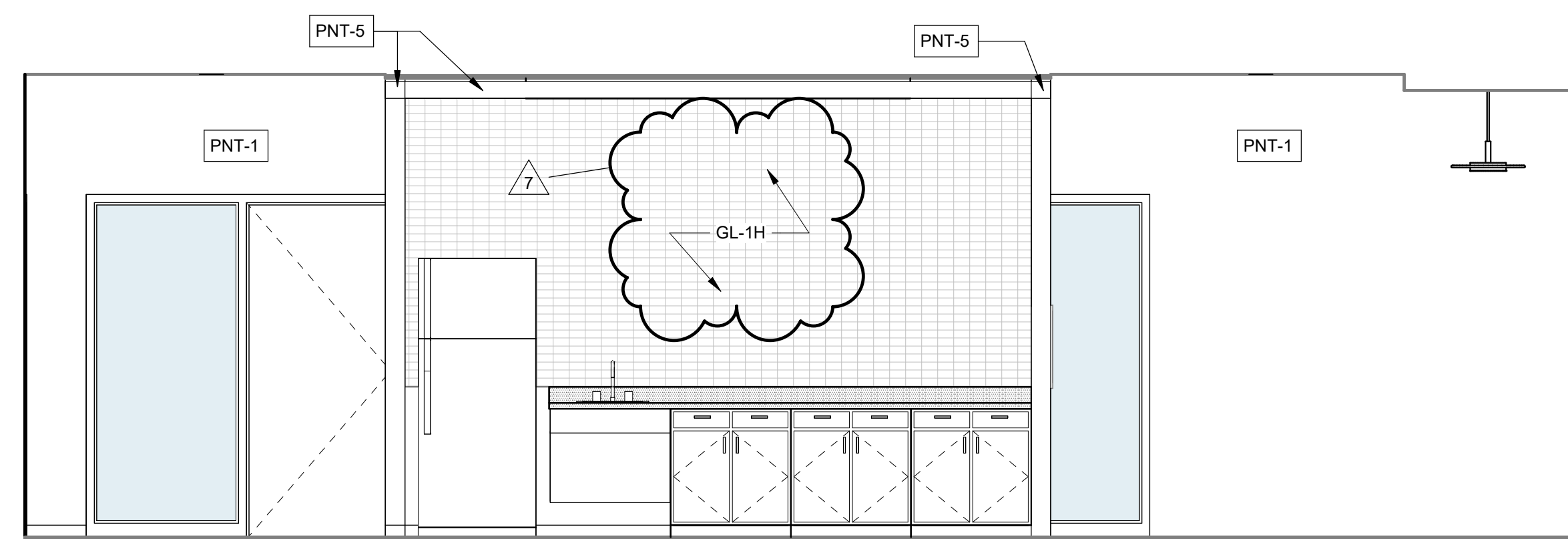
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A2-423



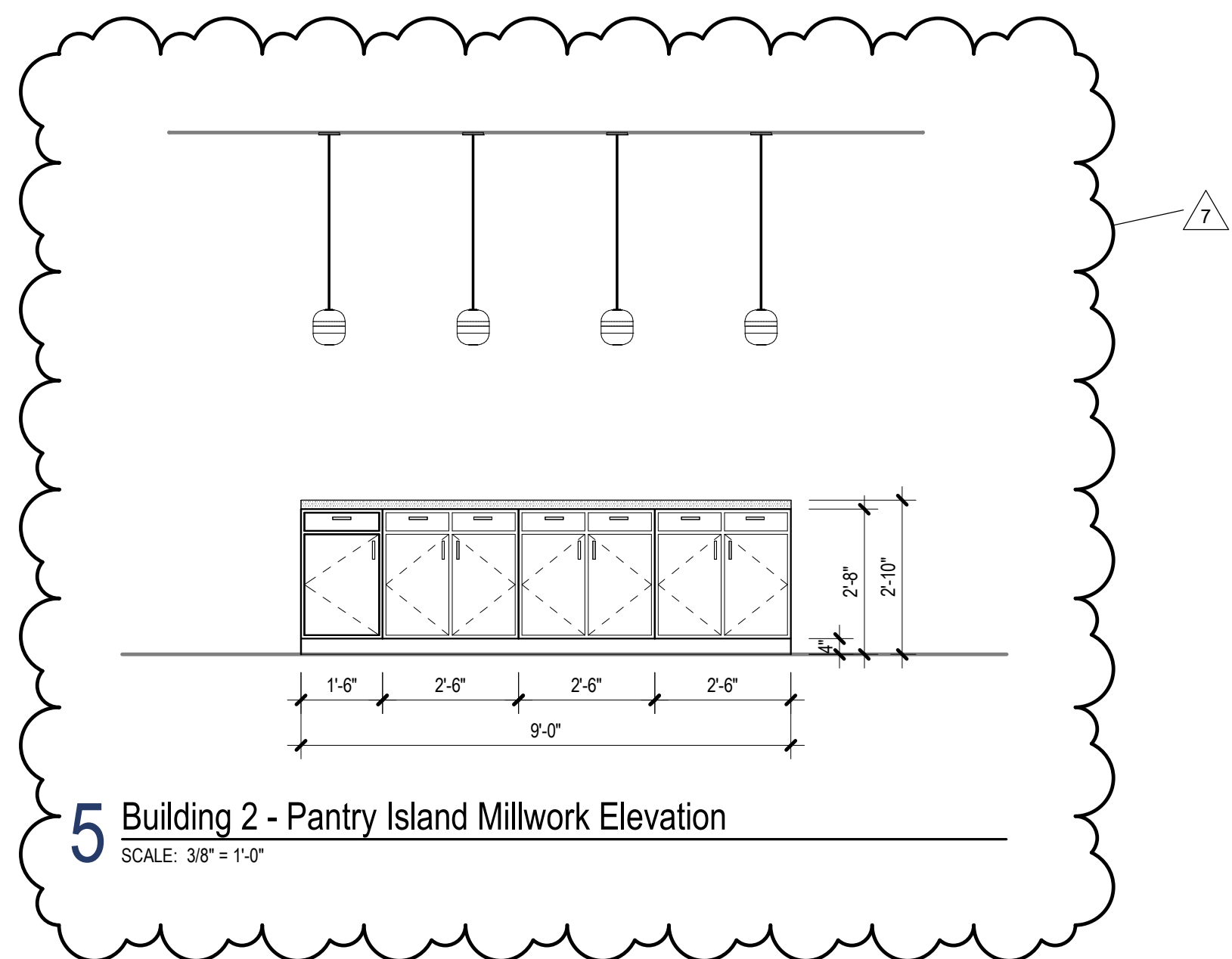
2 Building 2 Cafe South Elevation
SCALE: 3/8" = 1'-0"



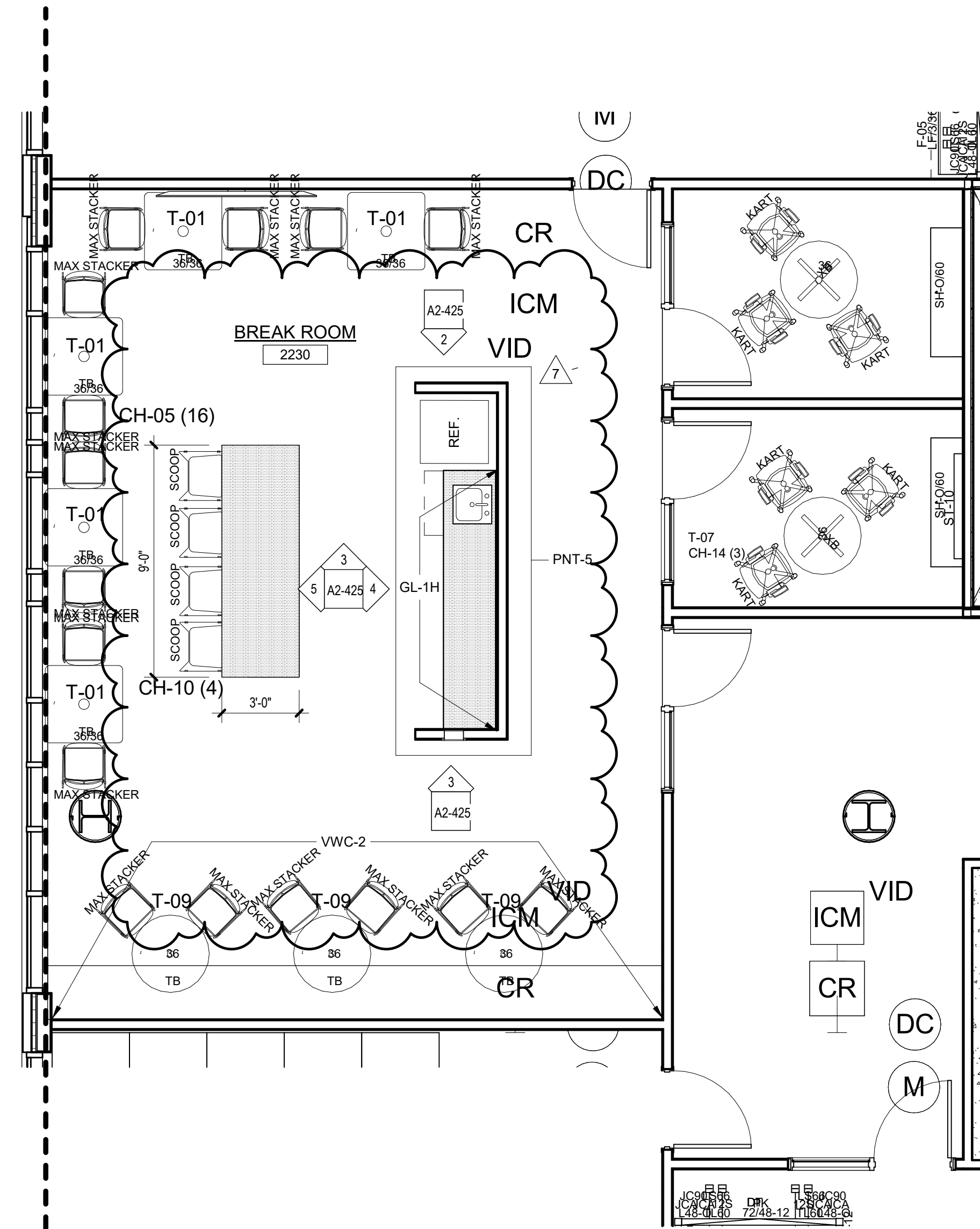
3 Building 2 - Pantry Interior Elevation - North
SCALE: 3/8" = 1'-0"



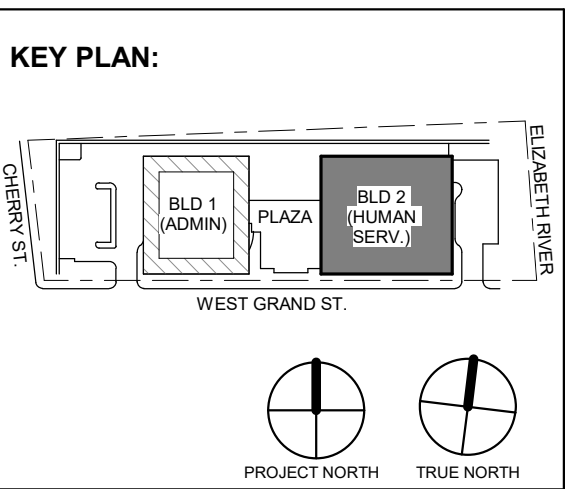
4 Building 2 - Pantry Interior Elevation - East
SCALE: 3/8" = 1'-0"



5 Building 2 - Pantry Island Millwork Elevation
SCALE: 3/8" = 1'-0"



1 Building 2- Level 2- Enlarged Pantry Plan
SCALE: 1/4" = 1'-0"



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CITY OF ELIZABETH
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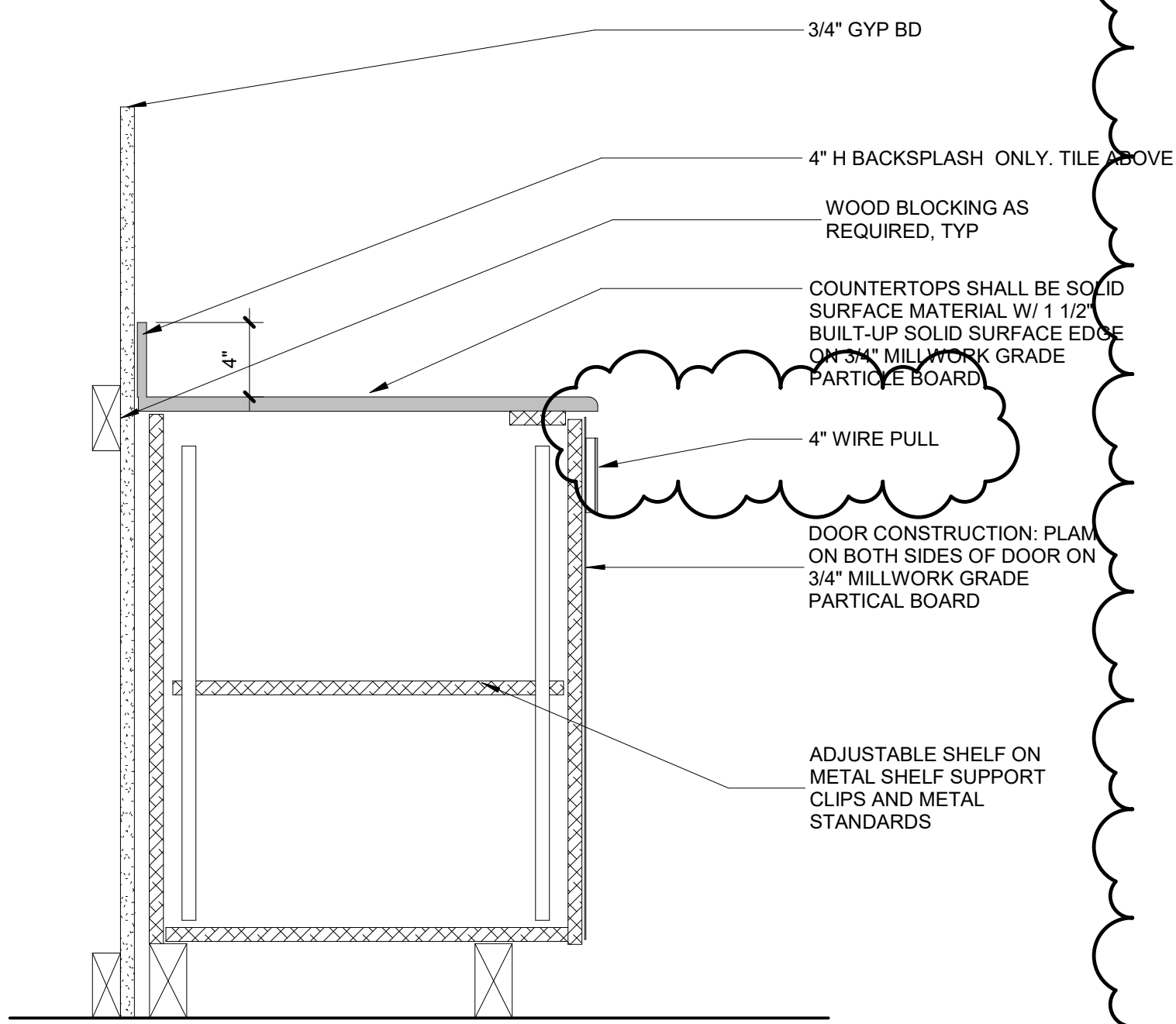
Project Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: Author
Checked By: Checker

Sheet Name:
BUILDING NO. 2 - ENLARGED BREAK ROOM (SECOND FLOOR PANTRY) INTERIOR ELEVATIONS

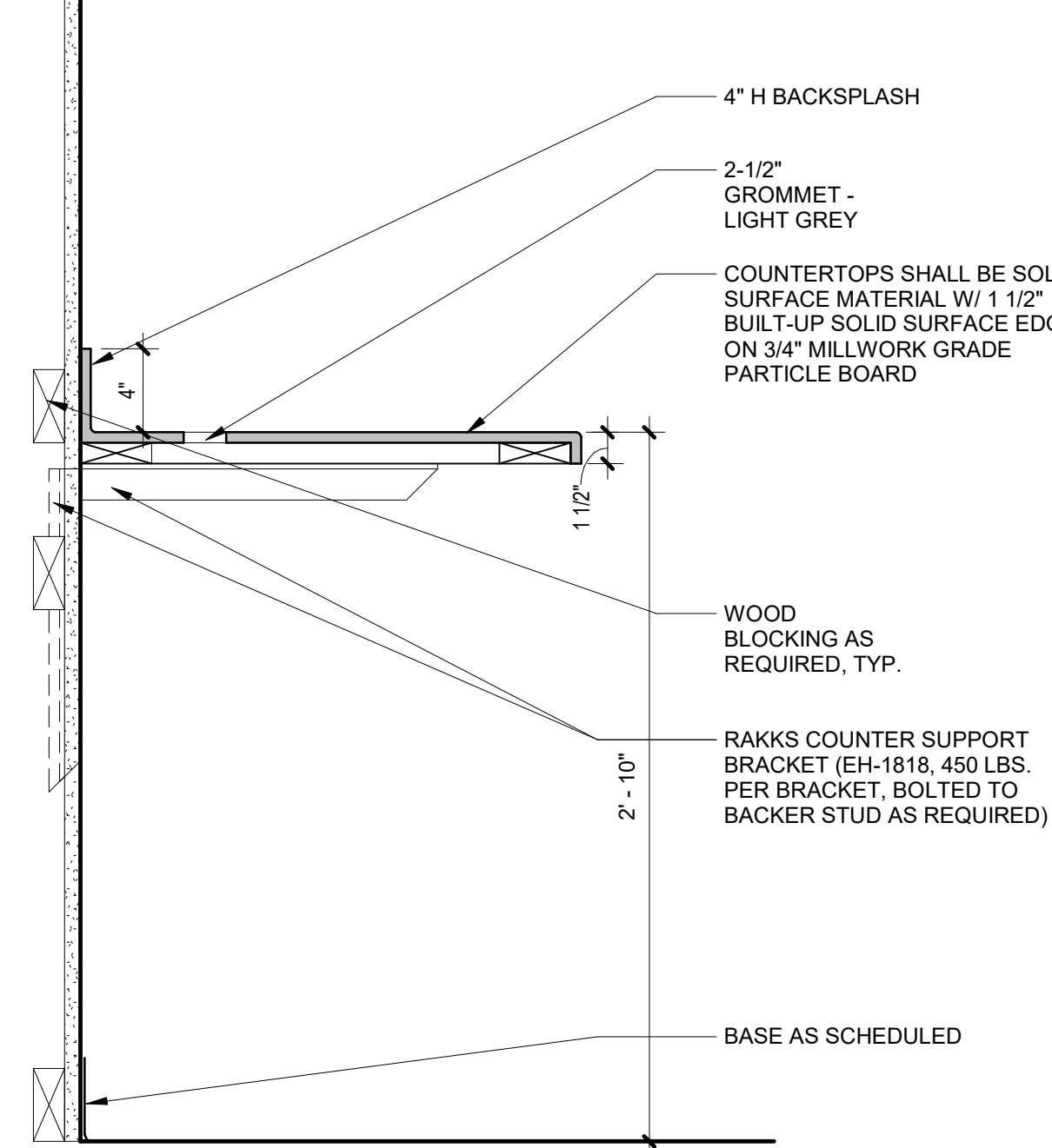
A2-425

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1 Millwork Section - Typical Base Cabinet
SCALE: 1 1/2" = 1'-0"



2 Millwork Section - Typical Counter
SCALE: 1 1/2" = 1'-0"

GALLEY NOTES:

GALLEY TO BE OUTFITTED AS FOLLOWS:

- **APPLIANCES:** (1) REFRIGERATOR/FREEZER MINIMUM 19 CU. FT. CAPACITY, ENERGY STAR RATED, (1) COMMERCIAL-GRADE WALL-MOUNTED MICROWAVE 1200 WATTS. APPLIANCES TO BE PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE ALL ELECTRIC & PLUMBING ROUGH-IN REQUIREMENTS W/ MANUFACTURER'S CUT-SHEETS.

- **PLUMBING:** UNDERMOUNT STAINLESS STEEL SINK, FAUCET AND TRIM.

- **FINISHES:** CERAMIC/GLOSS TILE BACKSPASH, RESILIENT FLOORING, SOLID SURFACE COUNTERTOPS, PLASTIC LAMINATE CAD CUSTOM CASWORK.

- **LIGHTING:** AS SHOWN ON RCP.

- **POWER:** TO FIT APPLIANCES AS NOTED PLUS RECEPTACLES AS REQUIRED BY CODE, MINIMUM OF (2) GFCI AT COUNTER HEIGHT.

MILLWORK CONSTRUCTION NOTES:

1. EXPOSED SURFACES ON ALL MILLWORK TO BE HIGH PRESSURE PLASTIC LAMINATE. ARCHITECT TO SELECT COLORS. INSTALL PREMIUM GRADE ON SURFACES AS SCHEDULED.

2. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD (V.I.F.) PRIOR TO FABRICATION. REFER TO OVERALL FLOOR PLANS FOR PROPER ORIENTATION OF MILLWORK ITEM. NOTIFY ARCHITECT IN WRITING IMMEDIATELY IF ANY DISCREPANCIES OCCUR.

3. ALL SINKS LOCATED ON THIS DRAWING SHALL BE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR. MILLWORKER SHALL CUT & COORDINATE SINK SIZE & EXACT LOCATION WITH PLUMBING CONTRACTOR.

4. WHERE MILLWORK IS SET WITHIN A ROUGH OPENING, CONTRACTOR MUST PROVIDE FINISH TRIM OR SCRIBE CLOSURE PIECES AS REQUIRED, VERIFIED IN FIELD (V.I.F.) ALL CONDITIONS PRIOR TO FABRICATION.

5. ALL CABINET DOORS AND DRAWERS TO BE PROVIDED AND INSTALLED WITH LOCKS. MASTERKEYING TO BE SELECTED BY OWNER.

6. GENERAL CONTRACTOR TO COORDINATE WITH MILLWORKER AND ELECTRICAL CONTRACTOR LOCATIONS OF ANY ELECTRICAL RECEPTACLES, UNDER CABINET LIGHTING OR DEVICES TO BE INSTALLED INTO OR ON MILLWORK.

7. ALL MILLWORK SHALL BE MANUFACTURED AS PER AIA ARCHITECTURAL WOODWORK STANDARDS.

8. **3MM PVC EDGE BANDING** TO BE APPLIED TO ALL EXPOSED EDGES UNLESS OTHERWISE NOTED, INCLUDING BUT NOT LIMITED TO: DRAWERS, DOORS AND CABINET EDGES TO MATCH PLASTIC LAMINATE COLOR. MILLWORKER TO SUBMIT THREE (3) MATCHING 3MM PVC EDGE BANDING SAMPLE TO ARCHITECT TO FINALIZE COLORS DURING SUBMITTAL.

9. REFER TO ELEVATIONS FOR FINISH TYPE UNLESS OTHERWISE NOTED. COORDINATE FINISHES WITH PROVIDED ON FINISH SCHEDULE & FINISH SPECIFICATIONS.

10. REFER TO TECHNICAL SPECIFICATIONS BOOK FOR ADDITIONAL PRODUCT INFORMATION NOT INDICATED ON MILLWORK AND / OR FINISH DRAWINGS.

11. FURNISH AND INSTALL PLASTIC LAMINATE FACED FINISHED END PANELS, FILLER PANELS, AND FASCIAS, OR ADJACENT SPECIFIED PLASTIC LAMINATE TYPE TO CLOSE OFF ALL ELEVATIONS.

12. THE FOLLOWING SUBMITTALS SHALL BE MADE BY THE MILLWORKER PRIOR TO FABRICATION OF ANY MILLWORK:

12.1. SHOP DRAWINGS SHOWING LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE-SCALE DETAILS, ATTACHMENT DEVICES, HARDWARE & ACCESSORY CUT SHEETS, AND OTHER COMPONENTS AS REQUIRED SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.

13. SAMPLES FOR VERIFICATION PURPOSES OF THE FOLLOWING:

13.1. LAMINATE GLAD PANEL PRODUCTS, 9-1/2 INCHES, BY 11 INCHES FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH, WITH SEPARATE SAMPLES OF UNFACED PANEL PRODUCT USED FOR CORE.

13.2. SOLID SURFACE MATERIALS, 6 INCHES BY 6 INCHES FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH.

13.3. CABINET HARDWARE, ONE UNIT OF EACH TYPE AND FINISH.

14. REFER TO CONTRACT DRAWING A-11 FOR MISCELLANEOUS EQUIPMENT SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO: MICROWAVES, REFRIGERATORS, DISHWASHERS, ETC.

HARDWARE & ACCESSORIES:

1. FULLY CONCEALED EUROPEAN SELF CLOSING HINGE, FOR FLUSH OVERLAY DOORS - 175 DEGREE OPENING BHMA A156.9, B01521

2. CATCHES: MAGNETIC CATCHES, BHMA A156.9, B03141

3. ADJUSTABLE SHELF STANDARDS AND SUPPORTS: BHMA A156.9, B04102 WITH SHELF BRACKETS, B04112. METAL SHELF STANDARDS RECESSED INTO CABINET SIDES AND ADJUSTABLE METAL SHELF CLIPS.

4. DRAWER SLIDES: SIDE-MOUNTED, FULL-EXTENSION, ZINC-PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS, BHMA A156.9, B05091, AND RATED FOR THE FOLLOWING LOADS:
a. BOX DRAWER SLIDES: 100 LBf
b. FILE DRAWER SLIDES: 200 LBf
c. KEYBOARD SLIDES: 75 LBf

5. DOOR LOCKS, BHMA A156.11, E07121

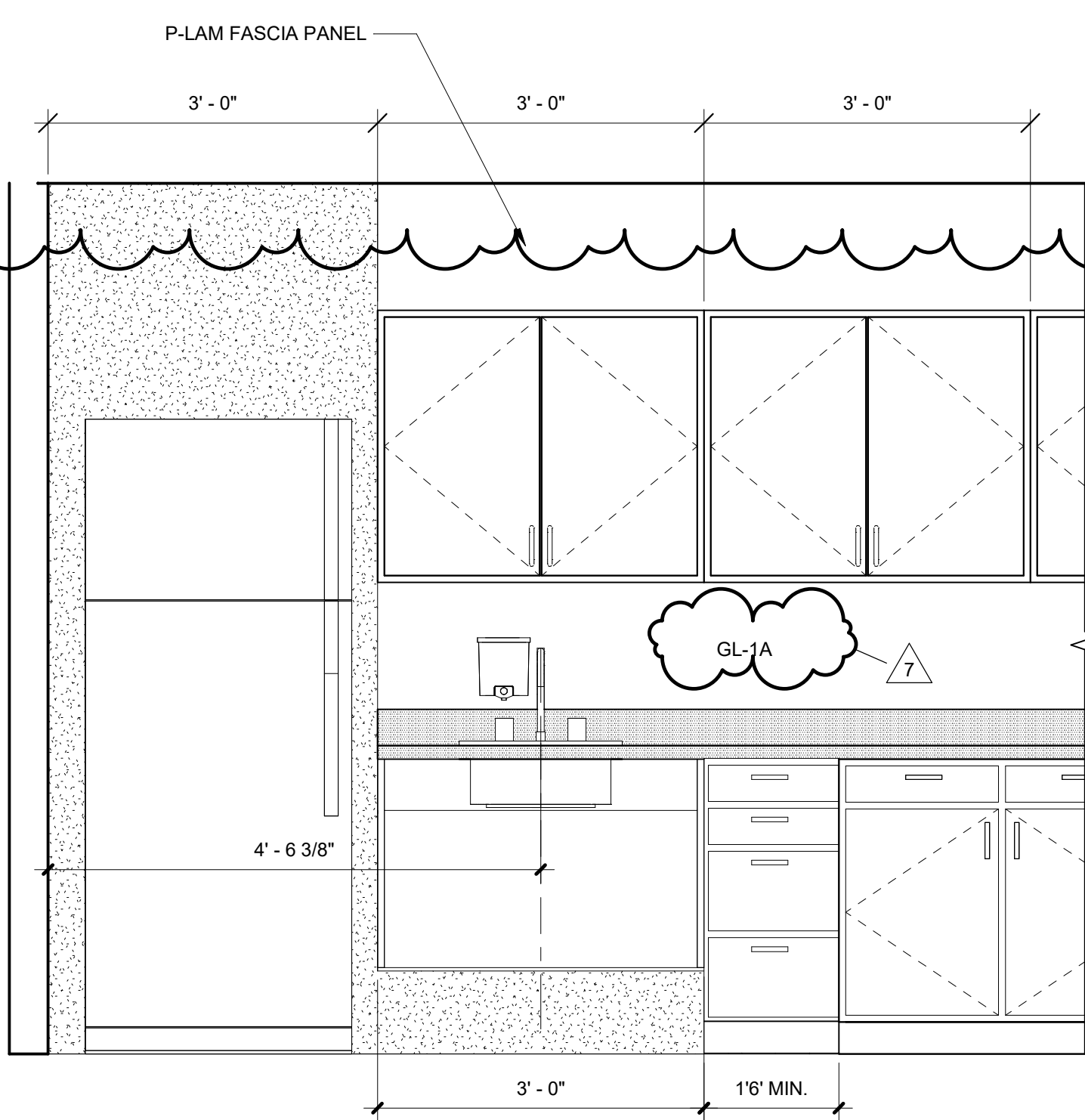
6. DRAWER LOCKS, BHMA A156.11, B07041

7. CABINET DOOR & DRAWER PULLS SHALL BE THE FOLLOWING: 4" WIRE PULL

10. EXPOSED HARDWARE FINISHES NOT ALREADY SPECIFIED: FOR EXPOSED HARDWARE, PROVIDE FINISH THAT COMPLIES WITH BHMA A156.18 FOR BHMA FINISH NUMBER INDICATED.

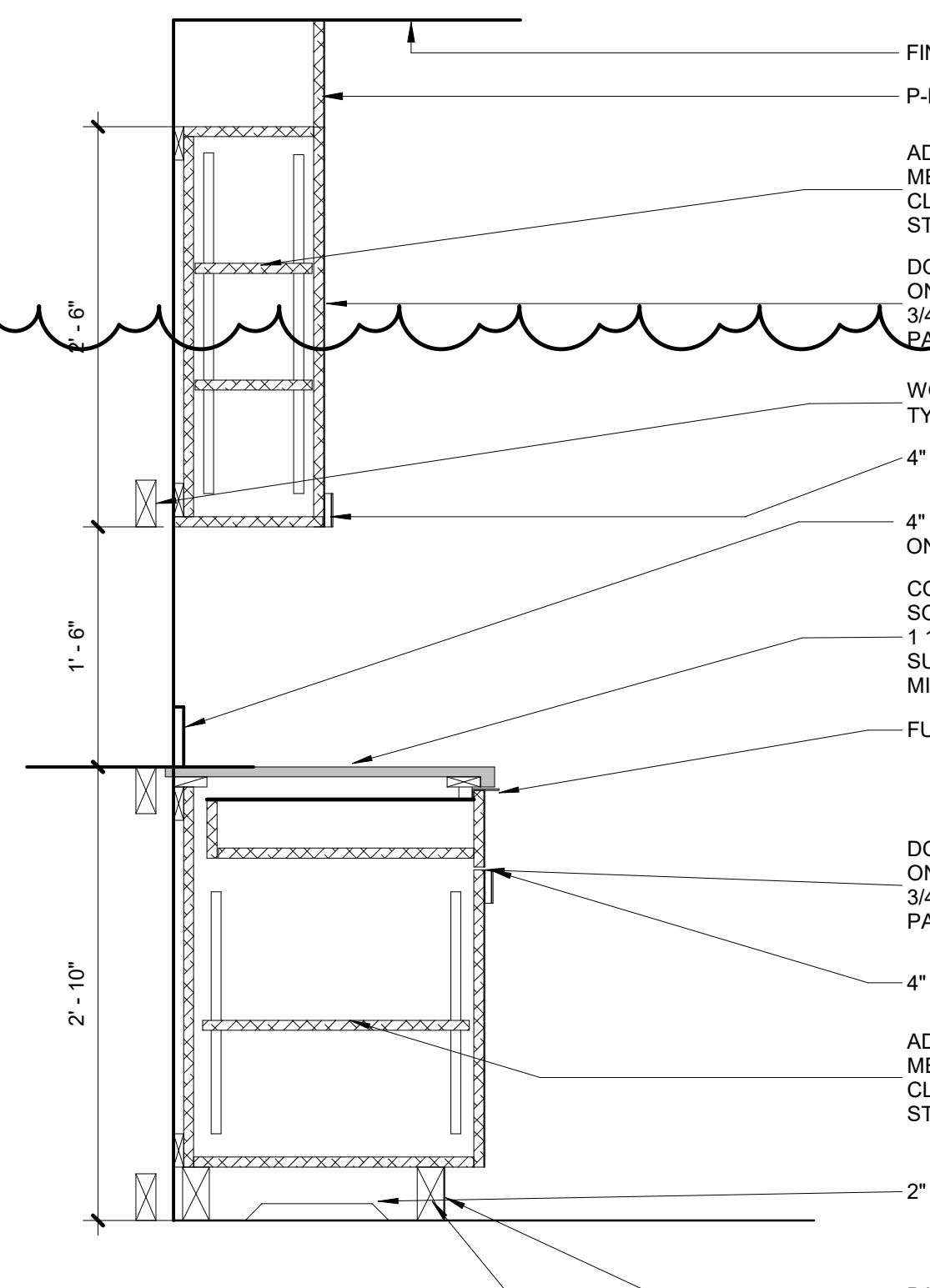
12.1. SATIN CHROMIUM PLATED: BHMA 652 FOR STEEL BASE

12.2. SATIN STAINLESS STEEL: BHMA 630

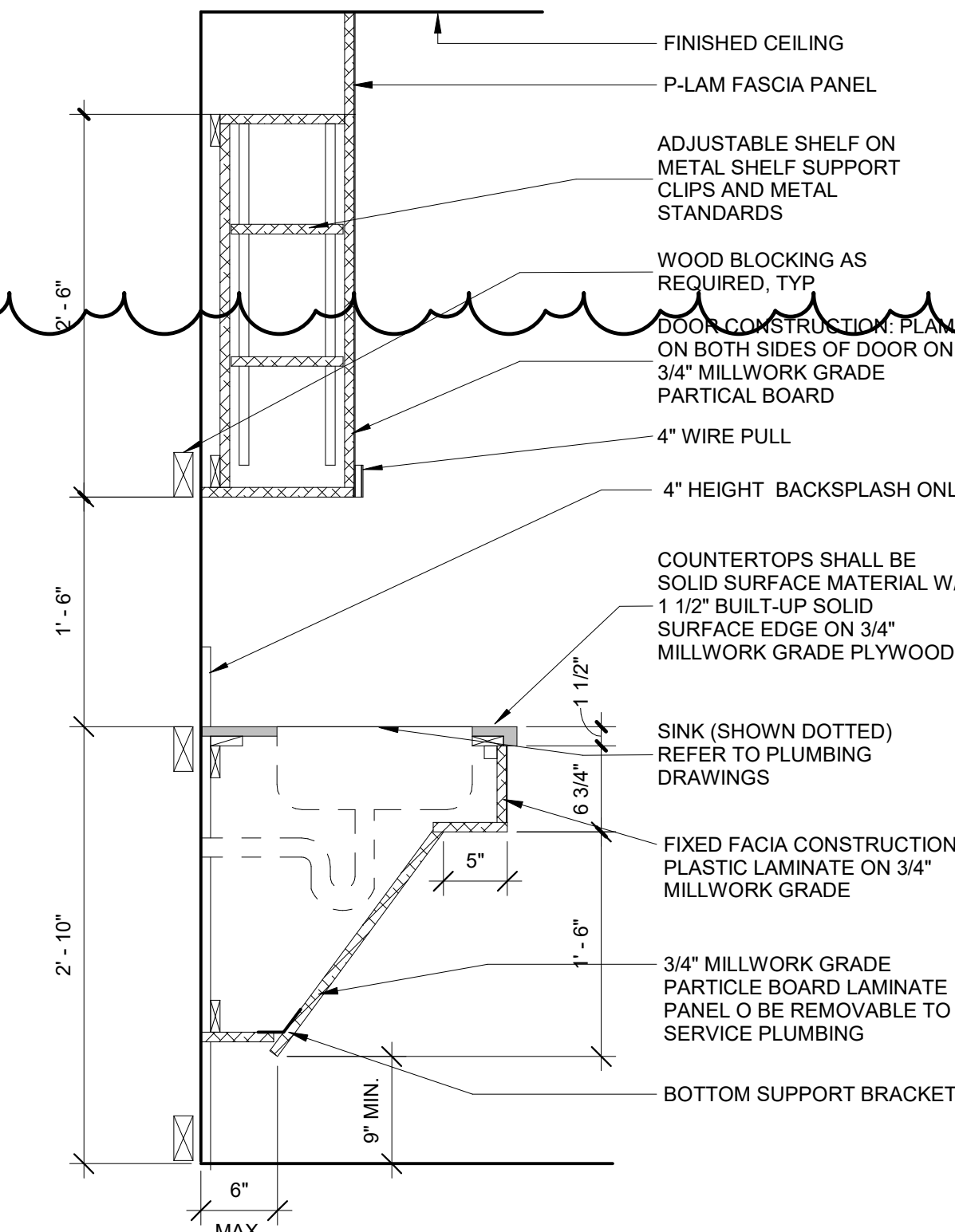


3 TYPE 1 - TYPICAL GALLEY MILLWORK ELEVATION
SCALE: 3/4" = 1'-0"

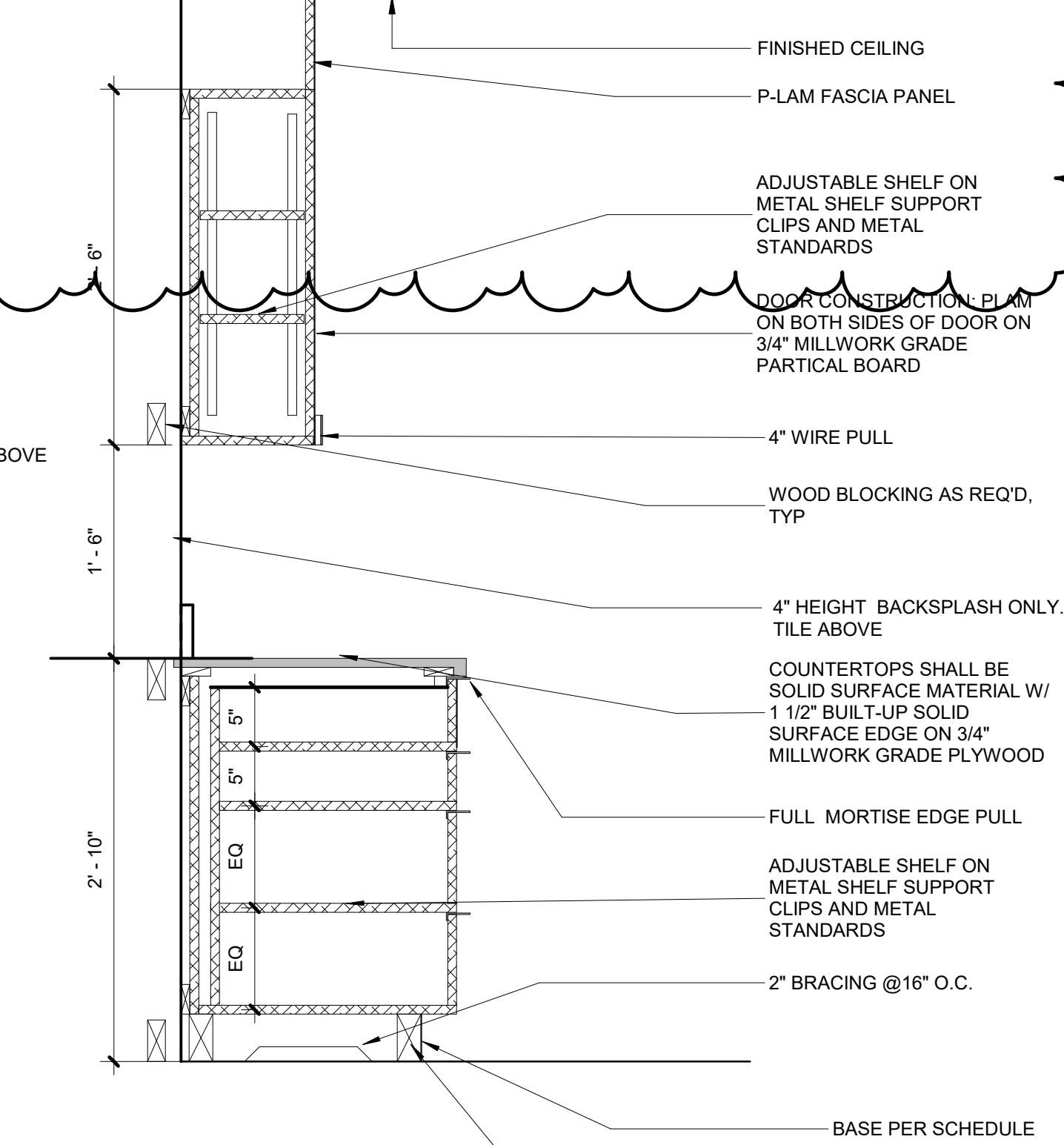
REFER TO PLANS FOR FULL EXTENT OF MILLWORK - EQUALLY SPACED BASE/ WALL CABINET FOR BALANCE OF DISTANCE IN THE ROOM
AT END RUN OF CABINET PROVIDE FILLER PANEL - MIN 2" NOT TO EXCEED 9"



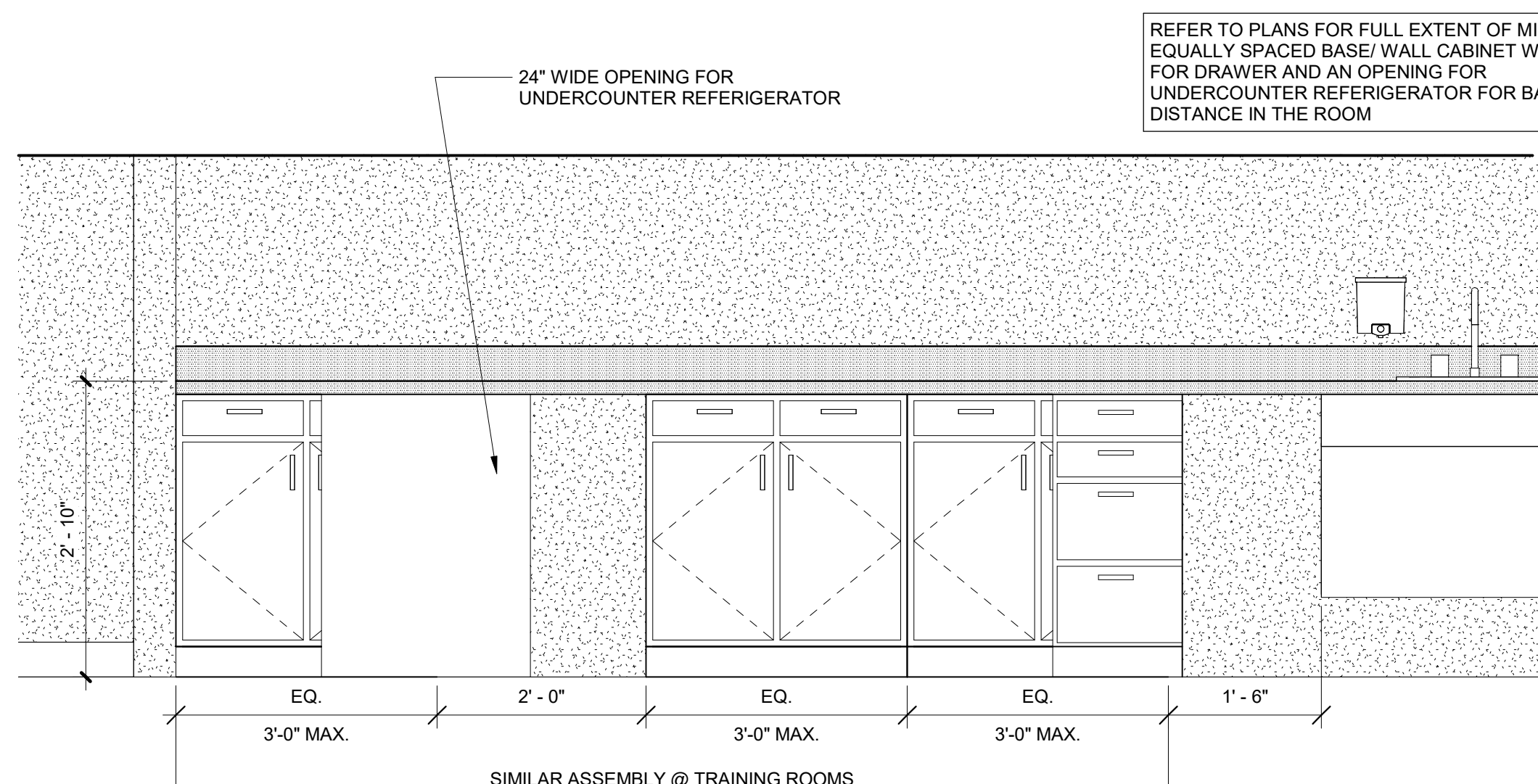
4 Millwork Section - Typ Casework w/ Drawer
SCALE: 1" = 1'-0"



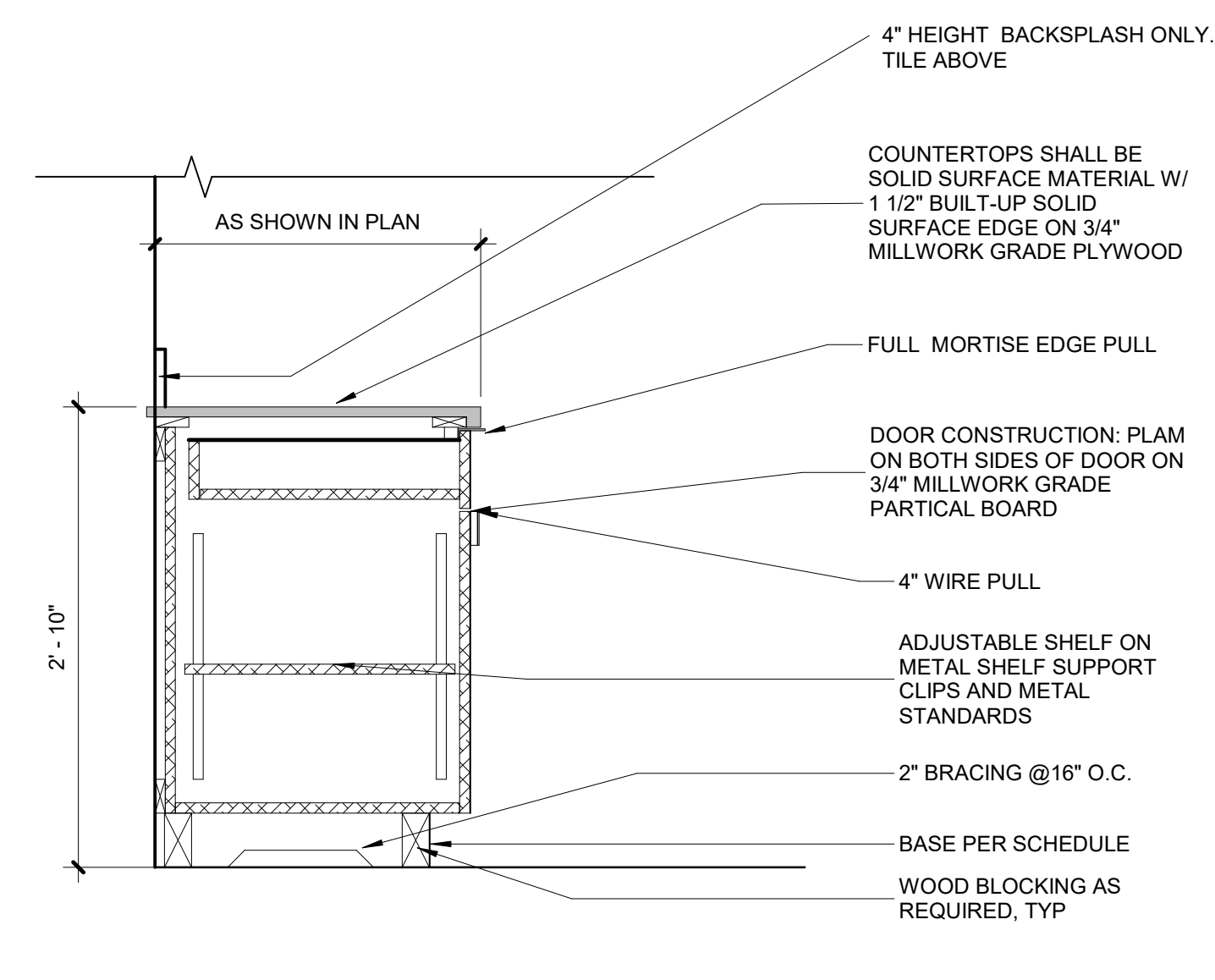
5 Millwork Section - Typ Casework w/ Sink
SCALE: 1" = 1'-0"



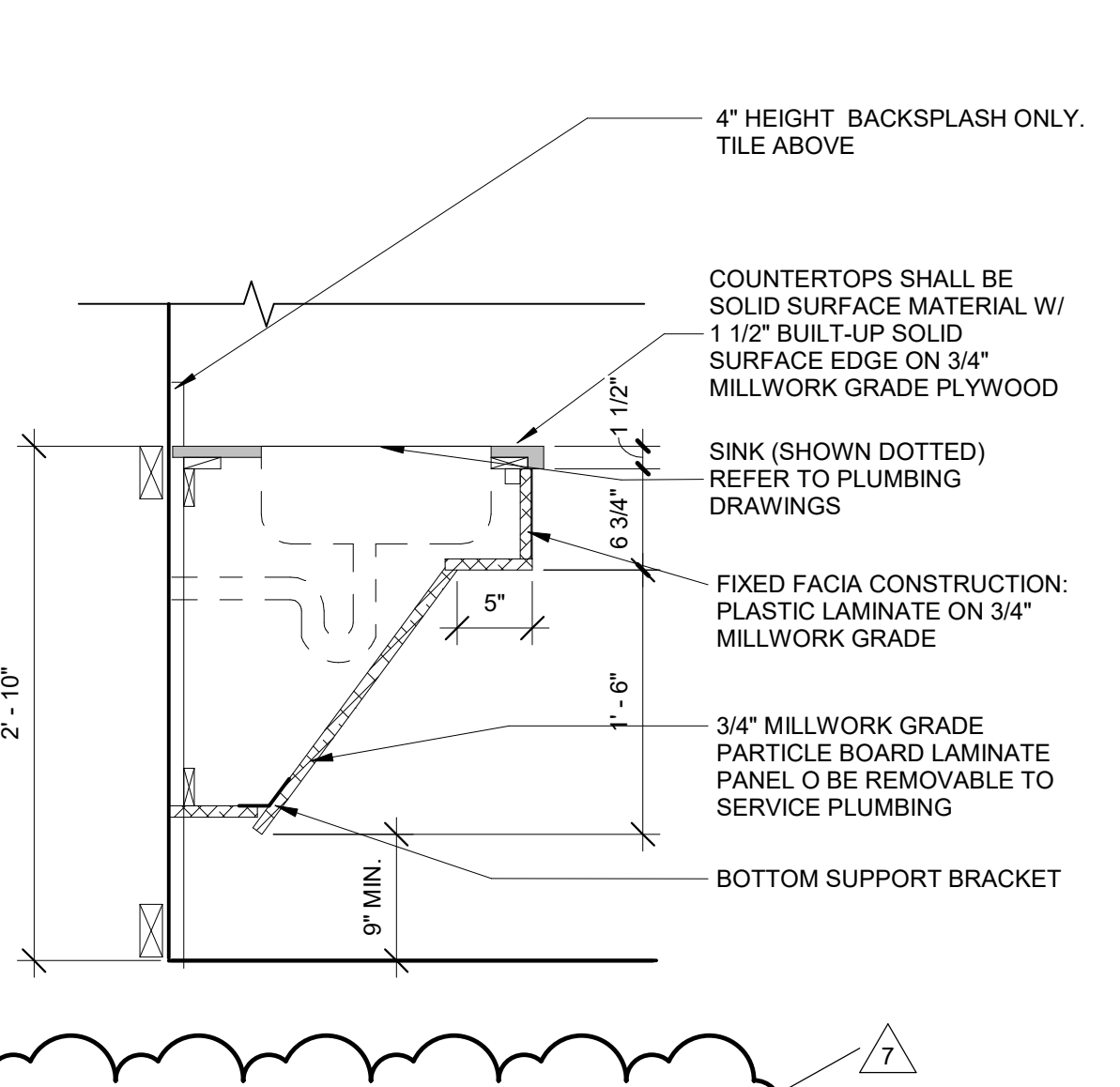
6 Millwork Section - Typ Casework Drawer
SCALE: 1" = 1'-0"



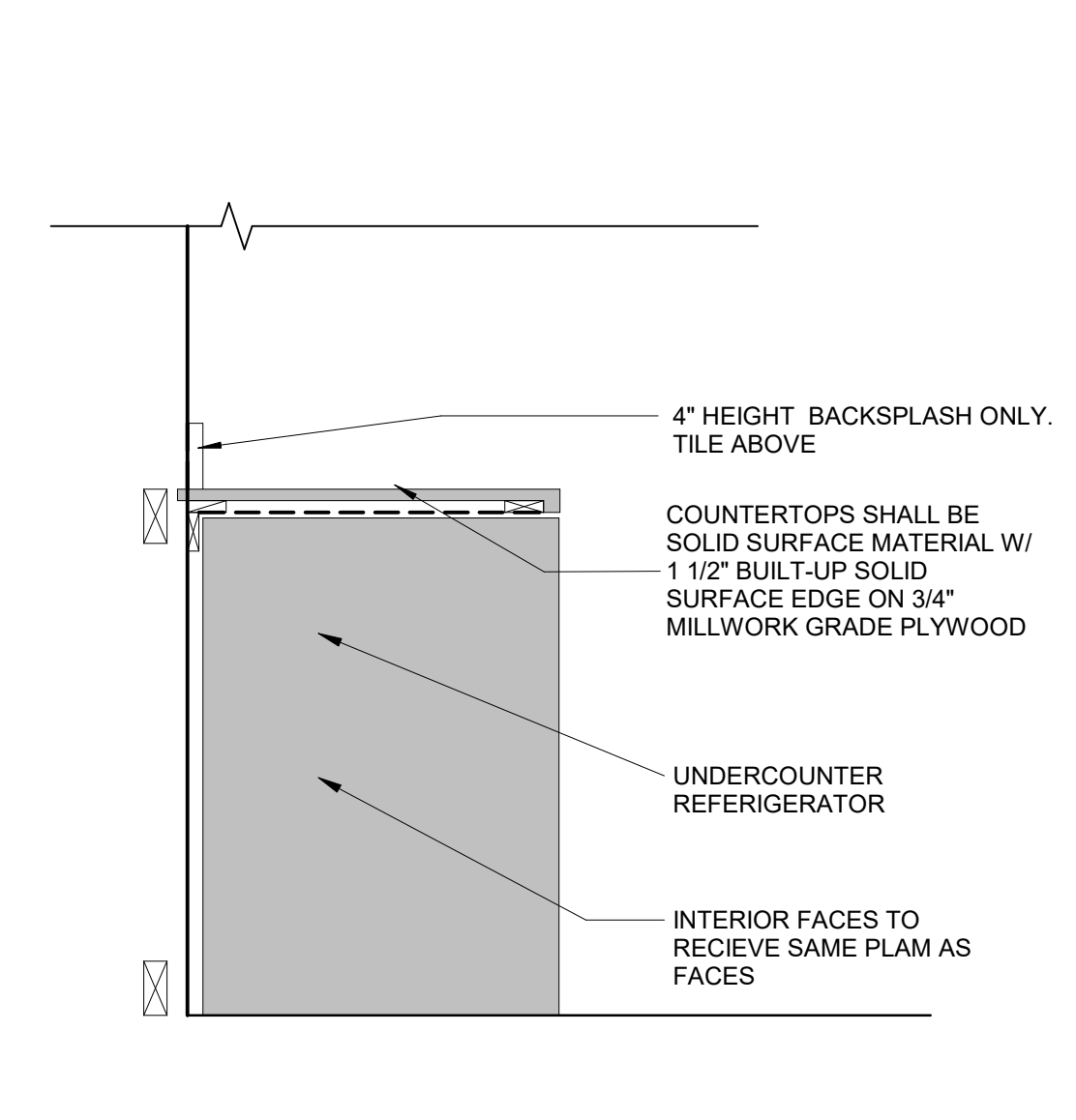
7 TYPE 2 - TYPICAL CONFERENCE/ COMMISSIONER/ TRAINING ROOM MILLWORK ELEVATION
SCALE: 3/4" = 1'-0"



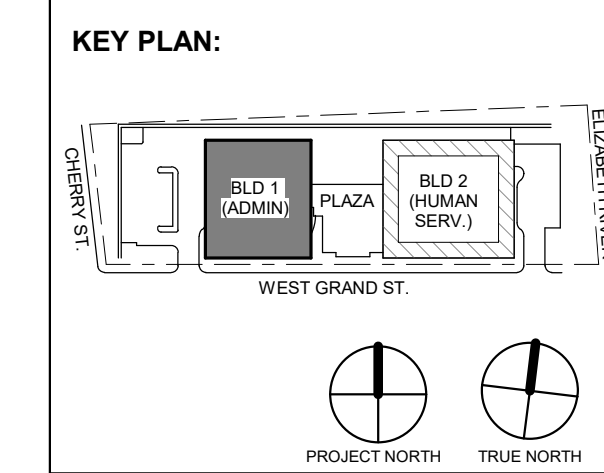
8 Millwork Section - Typ Casework - Type 2
SCALE: 1" = 1'-0"



9 Millwork Section - Typ Casework w/ Sink
SCALE: 1" = 1'-0"



10 Millwork Section - Casework Undercabinet Refrigerator - Type 2
SCALE: 1" = 1'-0"



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7	01.12.2024	Addendum No. 7
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ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Vanezia, AIA
NJ RA #A10927103

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Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 10/30/23
Drawn By: Author
Checked By: Checker

Sheet Name:

INTERIOR MILLWORK DETAILS

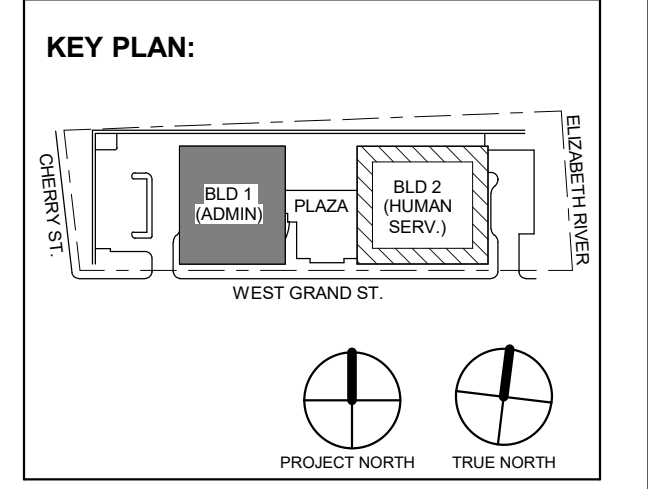
Sheet No:

A-437

GARAGE VENTILATION CALCULATION (PER IMC 404.1):
GARAGE AREA: 23,000 SF
MINIMUM EXHAUST RATE: 0.05 CFM/SF
23,000 SF * 0.05 CFM/SF = 1,165 CFM
MAXIMUM EXHAUST RATE: 0.75 CFM/SF
23,000 SF * 0.75 CFM/SF = 17,475 CFM
*EF 1-1 & EF 1-2 SHALL HAVE CAPACITY TO OPERATE SIMULTANEOUSLY TO PRODUCE 17,475 CFM (EACH EF @ 8,750 CFM)

- MECHANICAL SYSTEM NOTES:**
- GENERAL NOTES:
 - REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT.
 - REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
 - CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
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 - ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACOUSTICAL LINING AND INSULATION REQUIREMENTS.
 - ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING.
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 - CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS.
 - CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.
 - CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.

JOHN CHRIS MORRIS III, P.E.
A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY
DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JCM
PROJECT No: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



7	01.12.2024	Addendum No. 7
4	12.22.2023	Addendum No. 4
3	12.15.2023	Addendum No. 3
1	11.08.2023	For Public Bid

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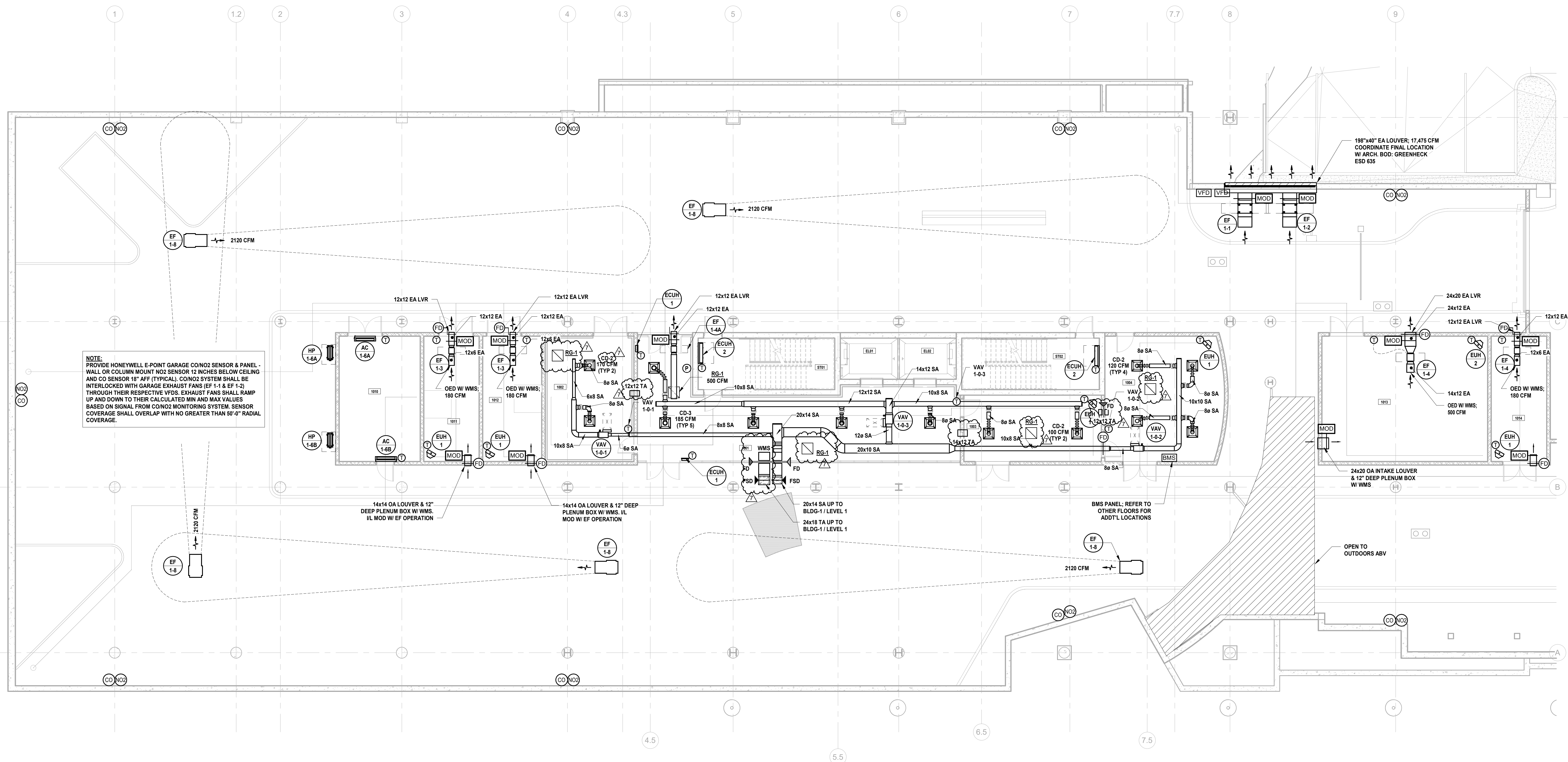
Project:
UNION COUNTY GOVERNMENT COMPLEX
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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JSK/AVPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 0 - MECHANICAL DUCTWORK PLAN

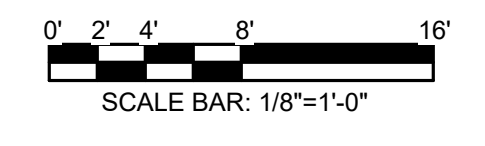
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M-101



NOTE:
PROVIDE HONEYWELL E-POINT GARAGE COIN2 SENSOR & PANEL - WALL OR COLUMN MOUNT NO2 SENSOR 12 INCHES BELOW CEILING AND CO SENSOR 18" AFS (TYPICAL). COIN2 SYSTEM SHALL BE INTERLOCKED WITH GARAGE EXHAUST FANS (EF 1-1 & EF 1-2) THROUGH THEIR RESPECTIVE VFDs. EXHAUST FANS SHALL RAMP UP AND DOWN TO THEIR CALCULATED MIN AND MAX VALUES BASED ON SIGNAL FROM COIN2 MONITORING SYSTEM. SENSOR COVERAGE SHALL OVERLAP WITH NO GREATER THAN 50'-0" RADIAL COVERAGE.

1 BUILDING NO. 1 - LEVEL 0 - MECHANICAL DUCTWORK PLAN
M-101 SCALE: 1/8" = 1'-0"

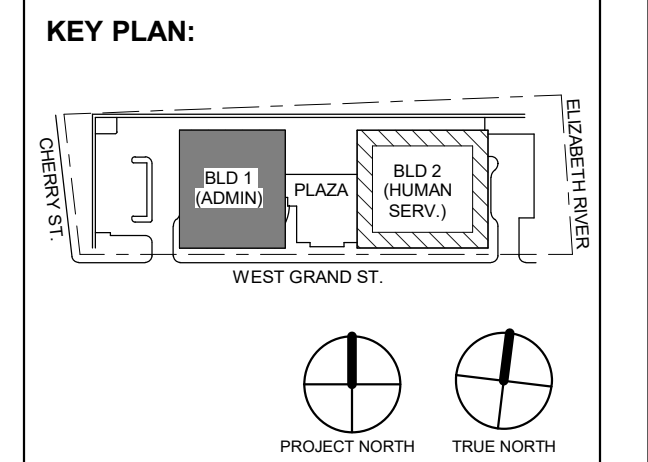


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JOHN CHRIS MORRIS III, P.E.

DESIGNED BY	CHKD BY	CHKD BY	CHKD BY
JSK/KDR	DJR	JSK	JCM
PROJECT No.	DATE	SCALE	
DGA2301	11/08/2023	AS SHOWN	



No.	Date	Description
7	01.12.2024	Addendum No. 7
4	12.22.2023	Addendum No. 4
3	12.15.2023	Addendum No. 3
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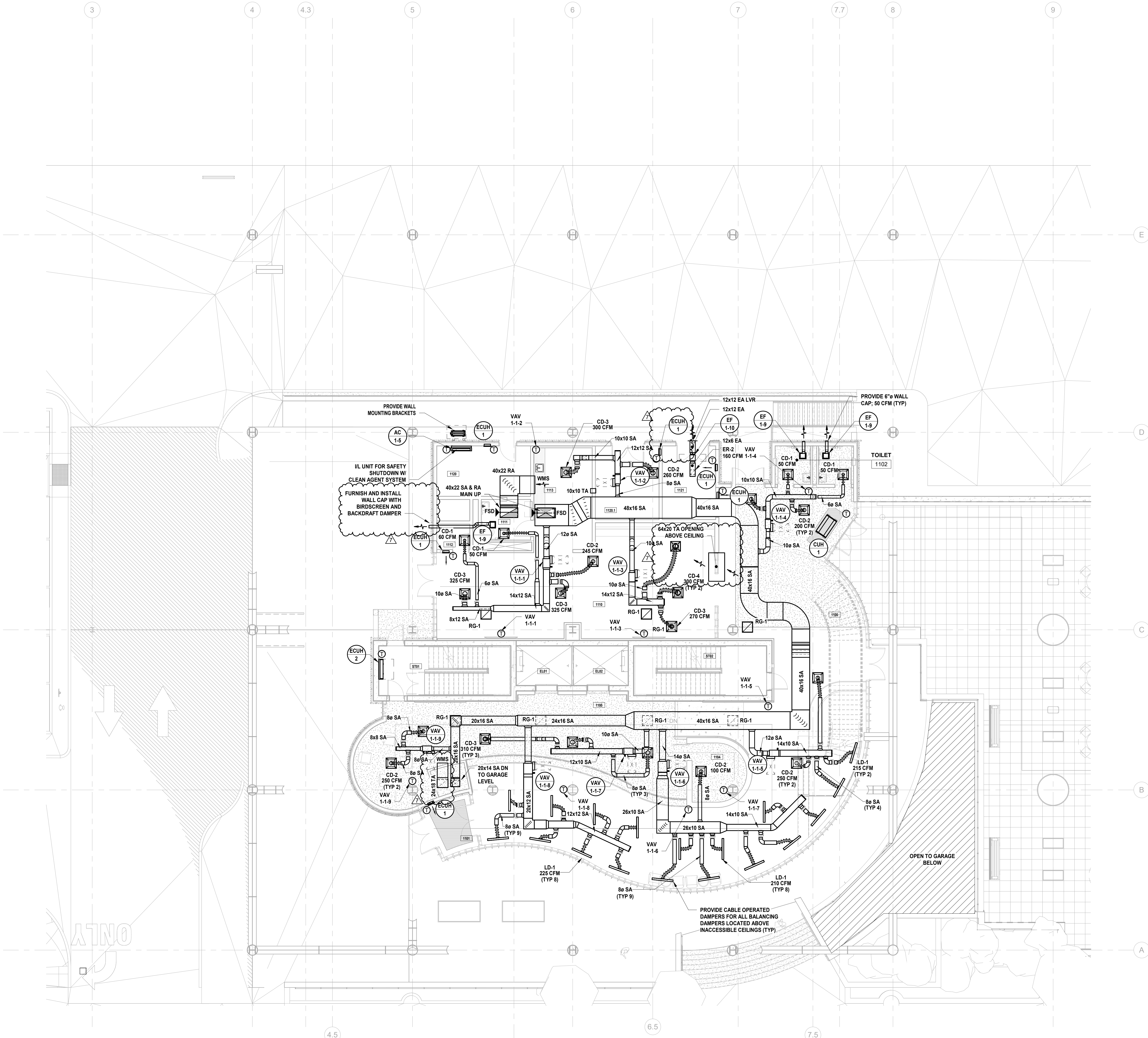
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Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

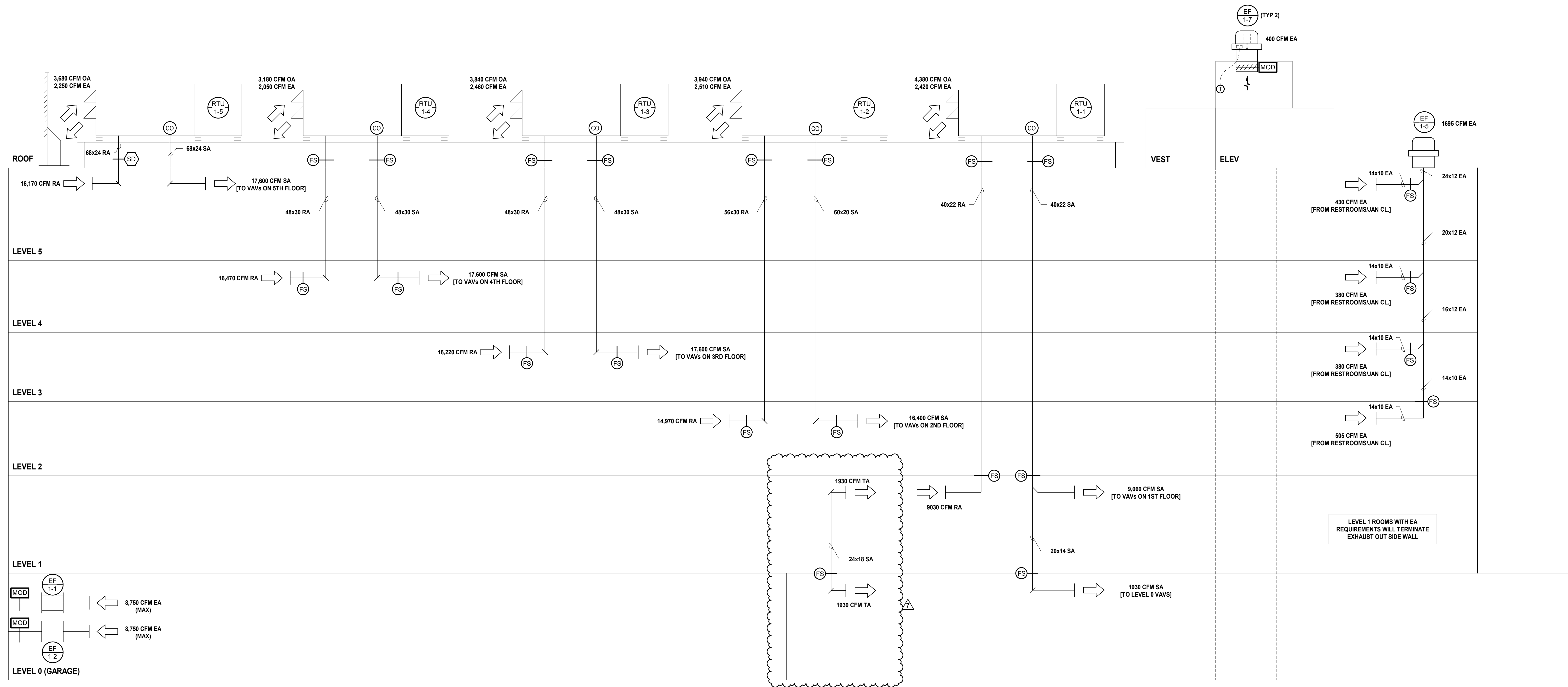
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Sheet Name: BUILDING NO. 1 - LEVEL 1 - MECHANICAL DUCTWORK PLAN

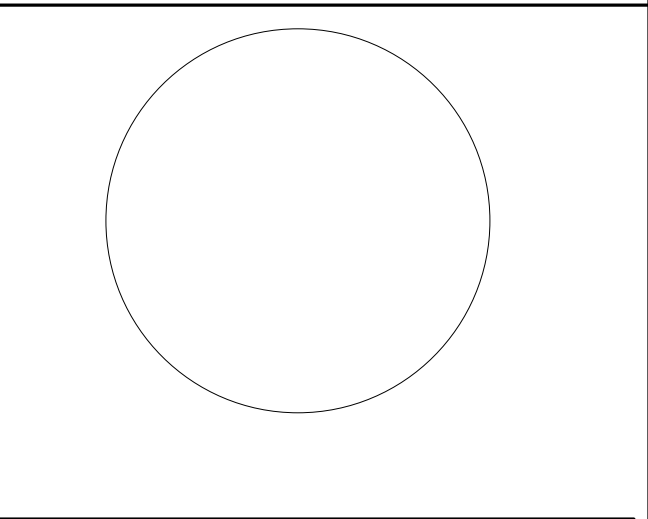
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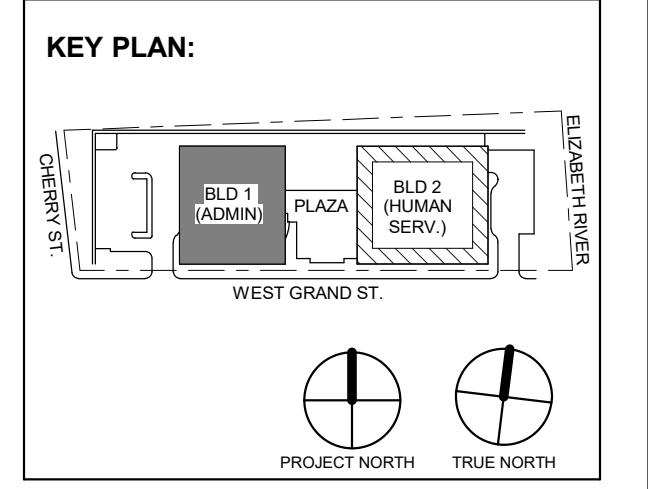
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 M-102 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



1 MECHANICAL BUILDING NO. 1 AIRFLOW RISER DIAGRAM M-303 SCALE: N.T.S.



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Revisions / Issues table with columns for No., Date, and Description.

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Jeffrey D. Venezia, AIA NJ RA AI 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - MECHANICAL RISER DIAGRAMS

Sheet No: M-303

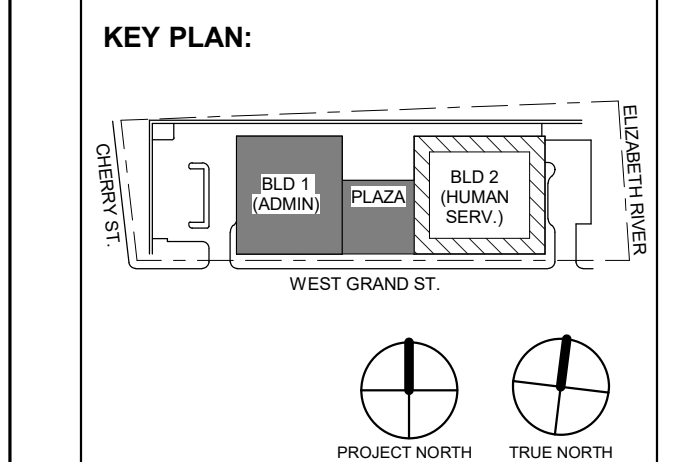


Table with 3 columns: No., Date, Description. Revisions / Issues.

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

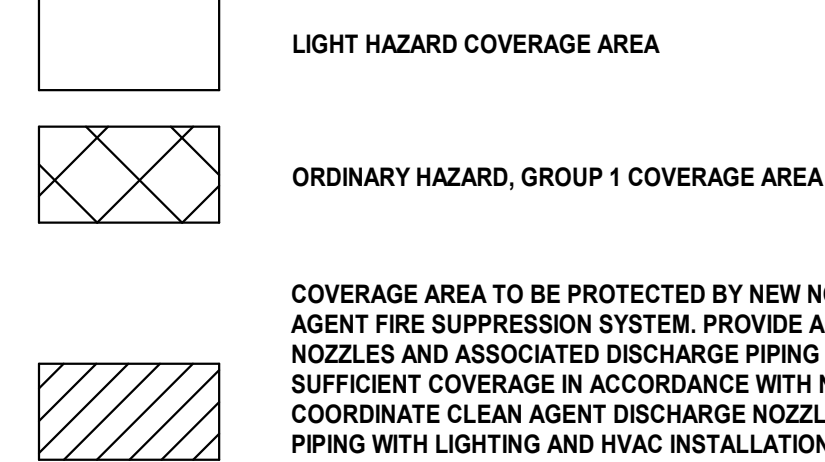
Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 0 - FIRE PROTECTION PLAN

Sheet No: FP-101

FIRE PROTECTION LEGEND:

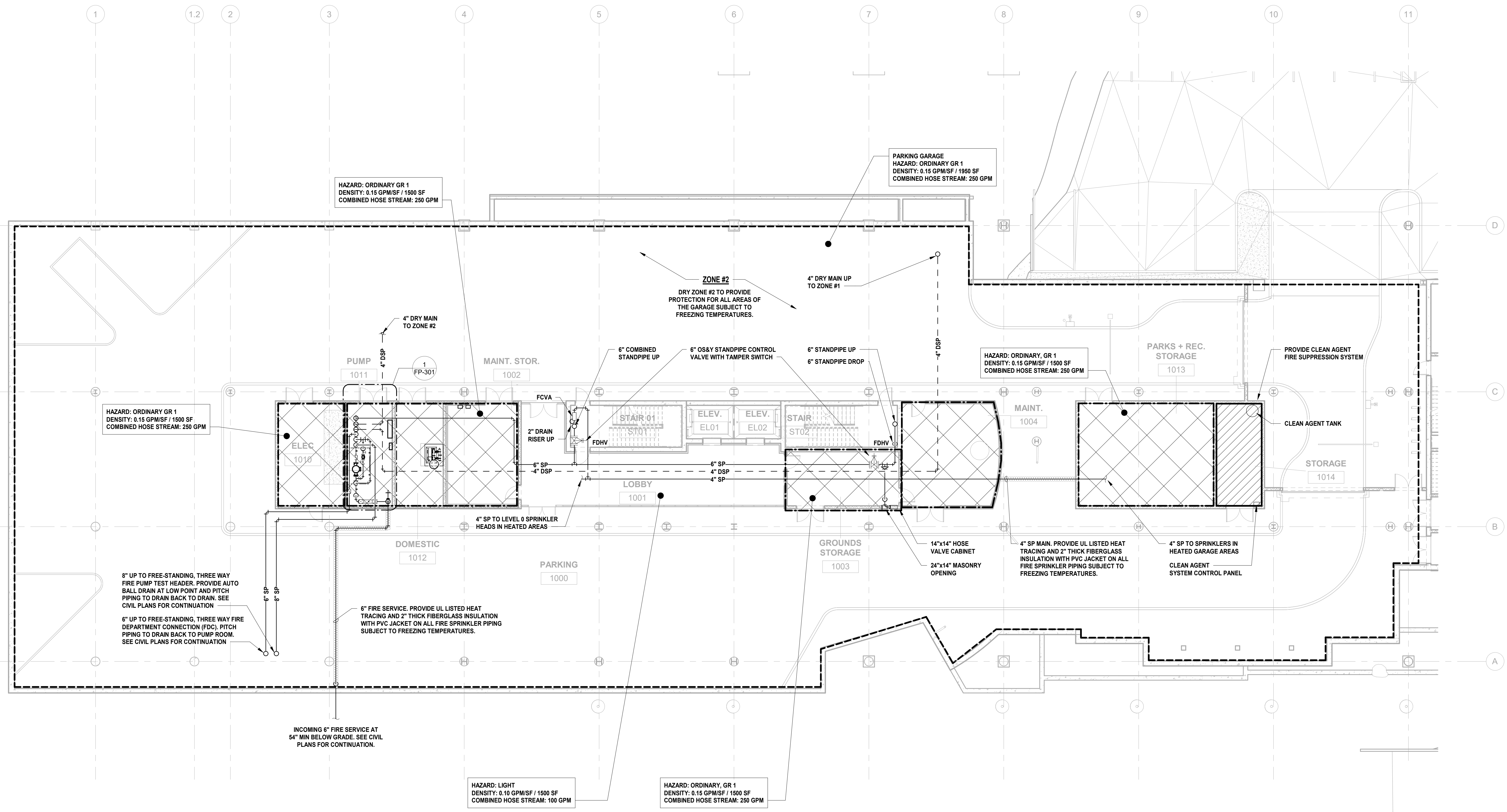


CLEAN AGENT SYSTEM NOTES:

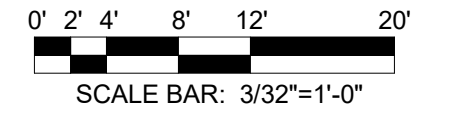
- 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAINING AND INSPECTION PROCEDURES TO BUILDING MANAGEMENT PERSONNEL.
2. CONTRACTOR SHALL PROVIDE AS-BUILTS OF THE INSTALLED SYSTEM THAT INCLUDE ALL CLEAN AGENT SYSTEM COMPONENTS...
3. CONTRACTOR TO PROVIDE CLOSE OUT DOCUMENTS THAT INCLUDE INSTALLATION AND OPERATIONAL MANUALS AND INSPECTION CHECKLISTS, AS PER SPECIFICATIONS.
4. CONTRACTOR RESPONSIBLE TO TEST THE INSTALLED CLEAN AGENT SYSTEM TO CONFIRM FIRE ALARM ACTIVATION AND POWER AND HVAC SYSTEM SHUTDOWNS...
5. NOVEC 1230 CYLINDERS ARE SHOWN FOR DIAGRAMATIC PURPOSES ONLY...

FIRE PROTECTION GENERAL NOTES:

- 1. REFER TO FIRE PROTECTION LEAD SHEET, FP-001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND PROJECT SCOPE DESCRIPTIONS FOR THIS PROJECT.
2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS BY THE FIRE PROTECTION CONTRACTOR.
3. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING ELEMENTS INCLUDING BUT NOT LIMITED TO, PIPING, DUCTWORK, LIGHTING FIXTURES, ETC.
4. PROVIDE SPRINKLER COVERAGE UNDER OBSTRUCTIONS AS REQUIRED BY NFPA-13.
5. PROVIDE ADDITIONAL SPRINKLER HEADS TO COMPLY WITH NFPA COVERAGE.



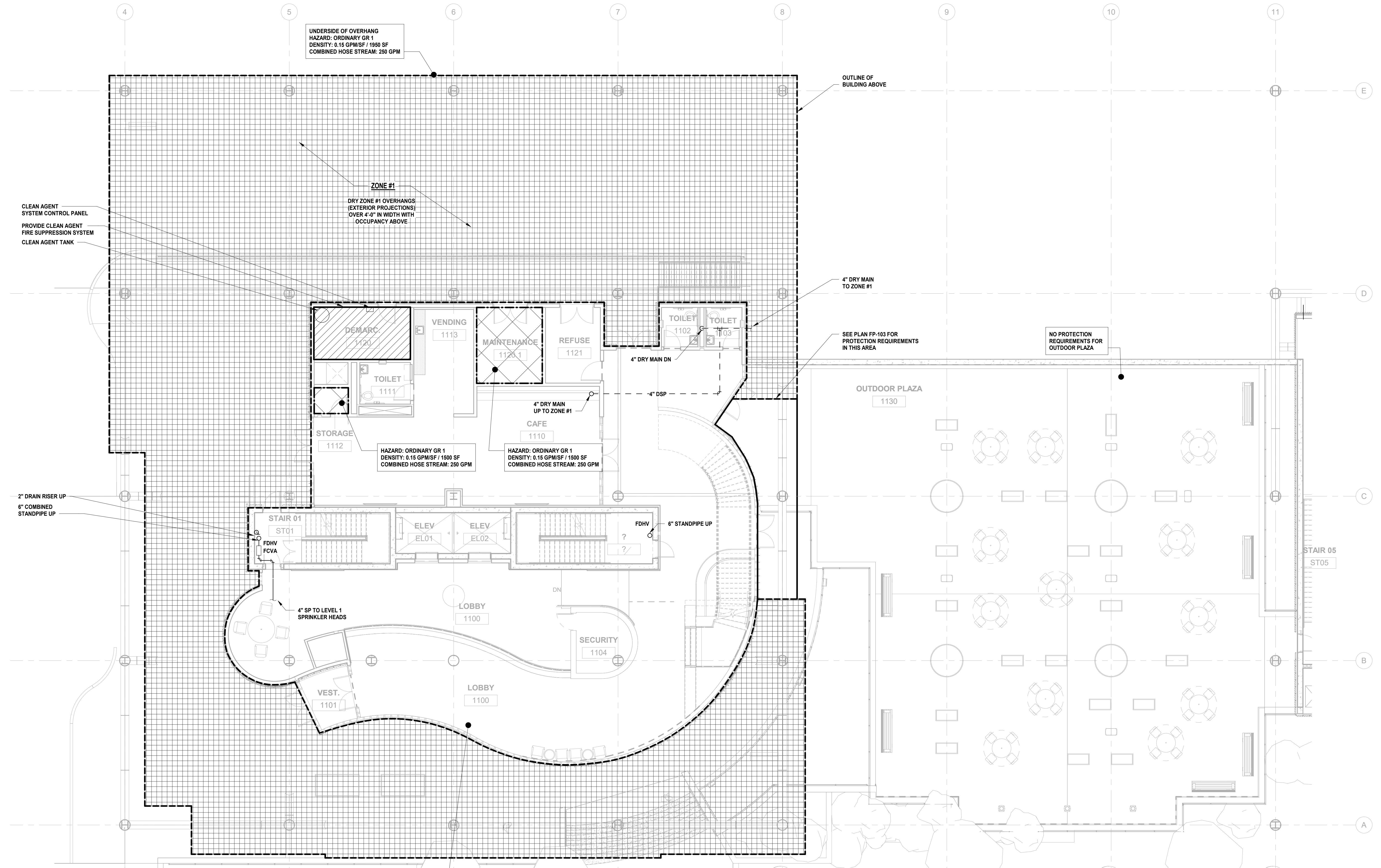
1 BUILDING NO. 1 - LEVEL 0 - FIRE PROTECTION SCALE: 3/32" = 1'-0"



FIRE PROTECTION LEGEND: LIGHT HAZARD COVERAGE AREA, ORDINARY HAZARD, GROUP 1 COVERAGE AREA, DRY ORDINARY HAZARD, GROUP 1 COVERAGE AREA. COVERAGE AREA TO BE PROTECTED BY NEW NOVEC 1230 CLEAN AGENT FIRE SUPPRESSION SYSTEM...

CLEAN AGENT SYSTEM NOTES: 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAINING AND INSPECTION PROCEDURES TO BUILDING MANAGEMENT PERSONNEL. 2. CONTRACTOR SHALL PROVIDE AS-BUILTS OF THE INSTALLED SYSTEM...

FIRE PROTECTION GENERAL NOTES: 1. REFER TO FIRE PROTECTION LEAD SHEET, FP-001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND PROJECT SCOPE DESCRIPTIONS FOR THIS PROJECT. 2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS...



1 BUILDING NO. 1 - LEVEL 1 - FIRE PROTECTION SCALE: 1/8" = 1'-0"



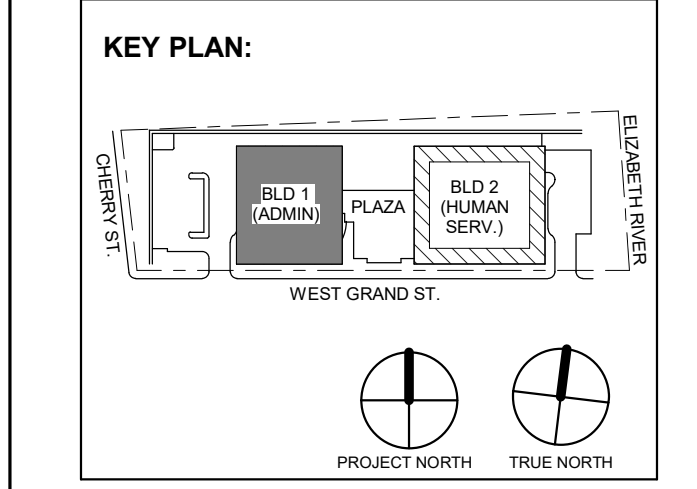


Table with 3 columns: No., Date, Description. Row 1: 7, 01.12.2024, Addendum No. 07. Row 2: 4, 12.22.2023, Addendum No. 04. Row 3: 11.08.2023, For Public Bid.

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JMSH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - FIRE PROTECTION PLAN

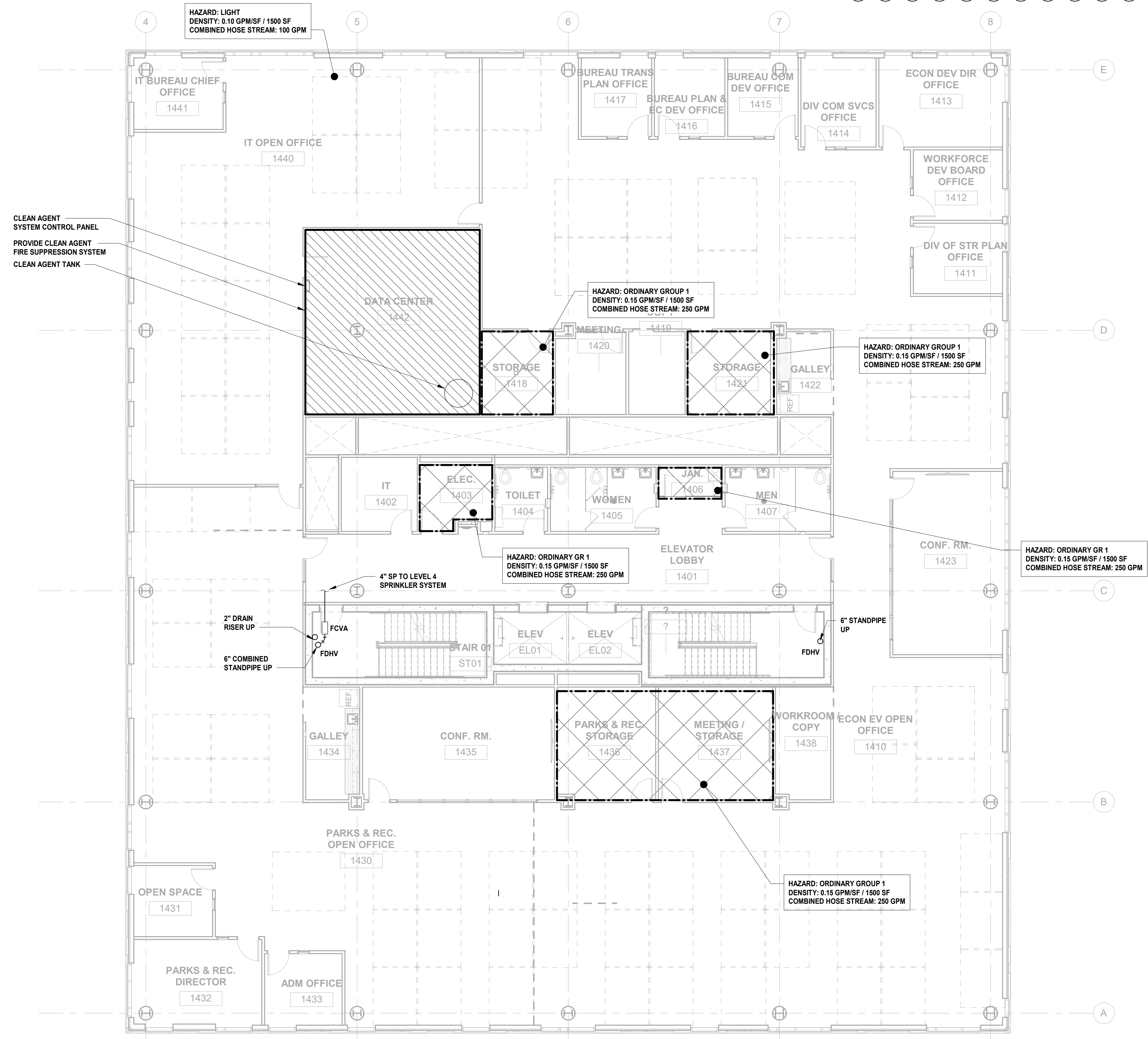
Sheet No: FP-105



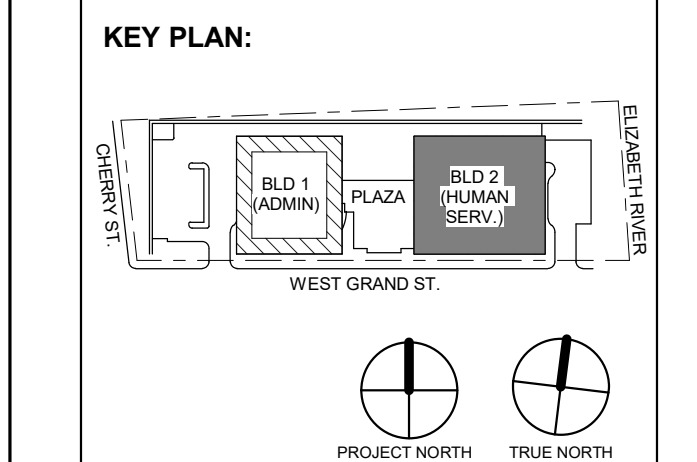
- FIRE PROTECTION GENERAL NOTES: 1. REFER TO FIRE PROTECTION LEAD SHEET, FP-001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND PROJECT SCOPE DESCRIPTIONS FOR THIS PROJECT. 2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS BY THE FIRE PROTECTION CONTRACTOR. 3. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING ELEMENTS INCLUDING BUT NOT LIMITED TO, PIPING, DUCTWORK, LIGHTING FIXTURES, ETC. 4. PROVIDE SPRINKLER COVERAGE UNDER OBSTRUCTIONS AS REQUIRED BY NFPA-13. 5. PROVIDE ADDITIONAL SPRINKLER HEADS TO COMPLY WITH NFPA COVERAGE.

- CLEAN AGENT SYSTEM NOTES: 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAINING AND INSPECTION PROCEDURES TO BUILDING MANAGEMENT PERSONNEL. 2. CONTRACTOR SHALL PROVIDE AS-BUILTS OF THE INSTALLED SYSTEM THAT INCLUDE ALL CLEAN AGENT SYSTEM COMPONENTS, INCLUDING ALL ASSOCIATED PIPING, VALVES, AGENT EMITTER NOZZLES, DETECTION DEVICES, ALARM DEVICES, CONTROL EQUIPMENT, AND SIGNAGE. 3. CONTRACTOR TO PROVIDE CLOSE OUT DOCUMENTS THAT INCLUDE INSTALLATION AND OPERATIONAL MANUALS AND INSPECTION CHECKLISTS, AS PER SPECIFICATIONS. 4. CONTRACTOR RESPONSIBLE TO TEST THE INSTALLED CLEAN AGENT SYSTEM TO CONFIRM FIRE ALARM ACTIVATION AND POWER AND HVAC SYSTEM SHUTDOWNS. CONTRACTOR TO TEST ROOM PRESSURIZATION IN ACCORDANCE WITH NFPA 2001, APPENDIX C. 5. NOVEC 1230 CYLINDERS ARE SHOWN FOR DIAGRAMATIC PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH MANUFACTURER TO DETERMINE THE QUANTITY AND SIZES OF NOVEC 1230 CYLINDERS REQUIRED TO ADEQUATELY PROTECT THE TOTAL VOLUME OF THE ENCLOSED SPACE, INCLUDING ANY BELOW FLOOR AND PLENUM SPACES.

FIRE PROTECTION LEGEND: LIGHT HAZARD COVERAGE AREA (white box), ORDINARY HAZARD, GROUP 1 COVERAGE AREA (cross-hatched box). COVERAGE AREA TO BE PROTECTED BY NEW NOVEC 1230 CLEAN AGENT FIRE SUPPRESSION SYSTEM. PROVIDE AGENT DISCHARGE NOZZLES AND ASSOCIATED DISCHARGE PIPING TO PROVIDE SUFFICIENT COVERAGE IN ACCORDANCE WITH NFPA 2001. COORDINATE CLEAN AGENT DISCHARGE NOZZLE AND DISCHARGE PIPING WITH LIGHTING AND HVAC INSTALLATIONS. DRAWINGS INDICATE DESIGN INTENT ONLY. FINAL DESIGN SHALL BE PERFORMED BY THE MANUFACTURER AND CONTRACTOR. CONTACT MANUFACTURER FOR FULL INSTALLATION COSTS.



1 BUILDING NO. 1 - LEVEL 4 - FIRE PROTECTION FP-105 SCALE: 1/8\"/>



Revision table with columns: No., Date, Description, Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

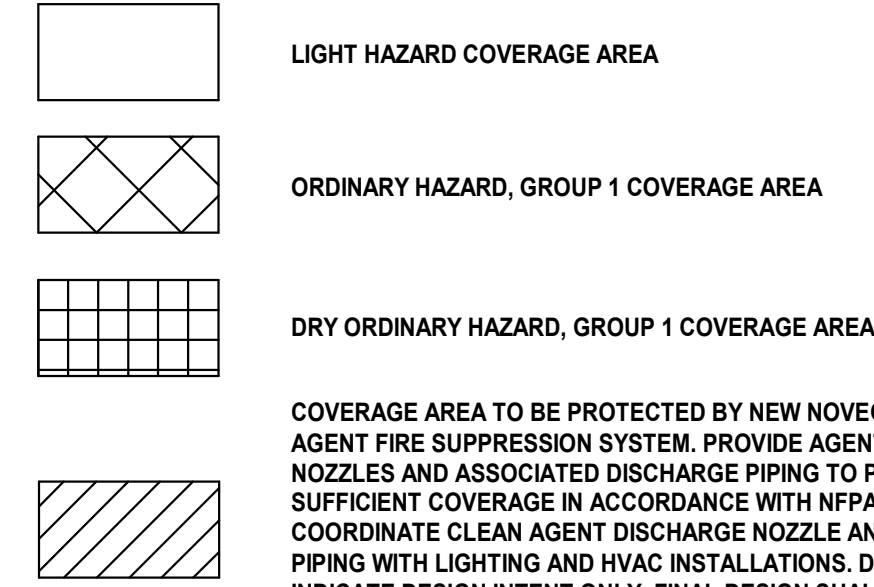
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 0 - FIRE PROTECTION PLAN

Sheet No:

FP-109

FIRE PROTECTION LEGEND:



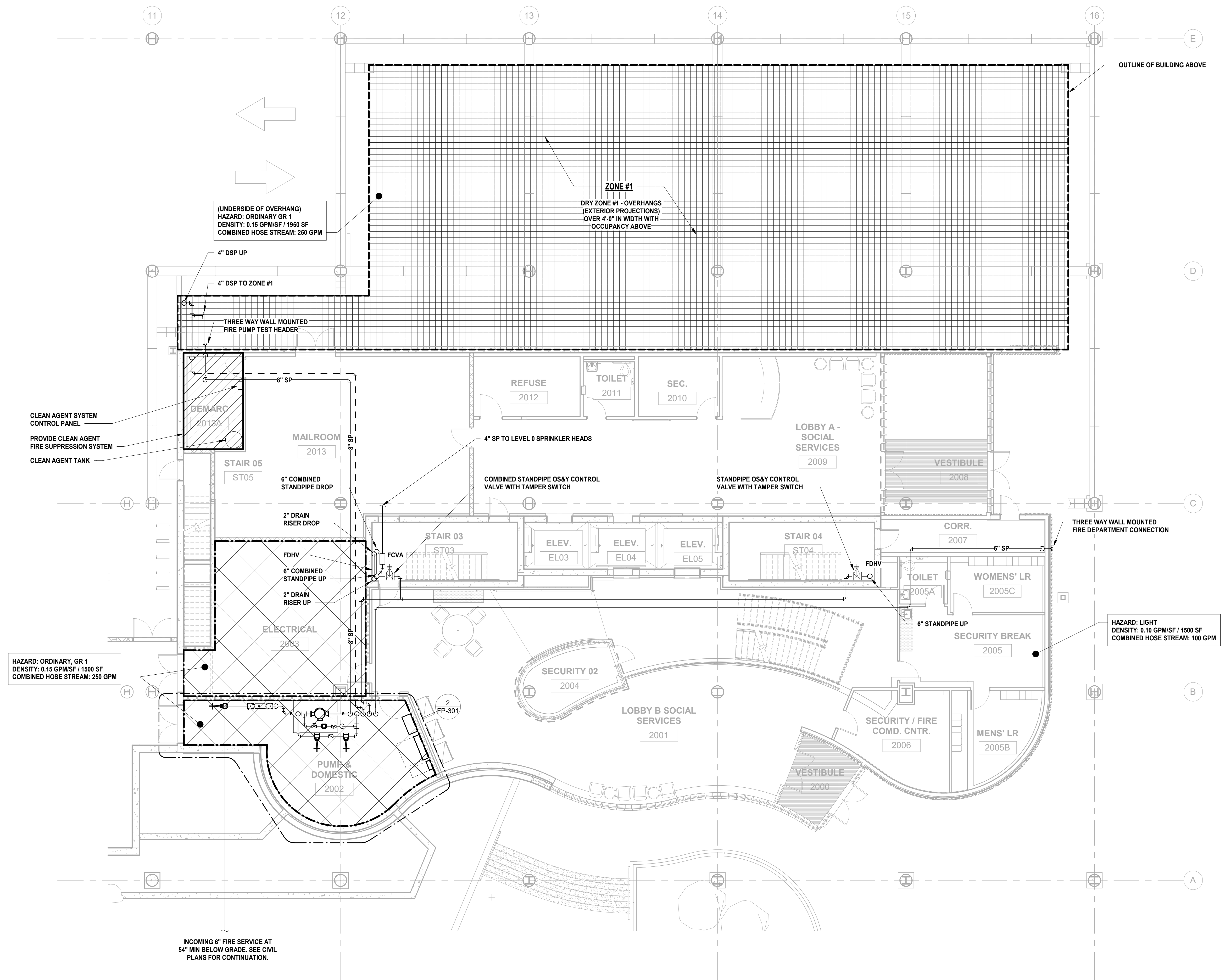
COVERAGE AREA TO BE PROTECTED BY NEHI NOVEC 1230 CLEAN AGENT FIRE SUPPRESSION SYSTEM. PROVIDE AGENT DISCHARGE NOZZLES AND ASSOCIATED DISCHARGE PIPING TO PROVIDE SUFFICIENT COVERAGE IN ACCORDANCE WITH NFPA 2001. COORDINATE CLEAN AGENT DISCHARGE NOZZLE AND DISCHARGE PIPING WITH LIGHTING AND HVAC INSTALLATIONS. DRAWINGS INDICATE DESIGN INTENT ONLY. FINAL DESIGN SHALL BE PERFORMED BY THE MANUFACTURER AND CONTRACTOR. CONTACT MANUFACTURER FOR FULL INSTALLATION COSTS.

CLEAN AGENT SYSTEM NOTES:

- 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAINING AND INSPECTION PROCEDURES TO BUILDING MANAGEMENT PERSONNEL.
2. CONTRACTOR SHALL PROVIDE AS-BUILTS OF THE INSTALLED SYSTEM THAT INCLUDE ALL CLEAN AGENT SYSTEM COMPONENTS, INCLUDING ALL ASSOCIATED PIPING, VALVES, AGENT EMITTER NOZZLES, DETECTION DEVICES, ALARM DEVICES, CONTROL EQUIPMENT, AND SIGNAGE.
3. CONTRACTOR TO PROVIDE CLOSE OUT DOCUMENTS THAT INCLUDE INSTALLATION AND OPERATIONAL MANUALS AND INSPECTION CHECKLISTS, AS PER SPECIFICATIONS.
4. CONTRACTOR RESPONSIBLE TO TEST THE INSTALLED CLEAN AGENT SYSTEM TO CONFIRM FIRE ALARM ACTIVATION AND POWER AND HVAC SYSTEM SHUTDOWNS. CONTRACTOR TO TEST ROOM PRESSURIZATION IN ACCORDANCE WITH NFPA 2001, APPENDIX C.
5. NOVEC 1230 CYLINDERS ARE SHOWN FOR DIAGRAMATIC PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH MANUFACTURER TO DETERMINE THE QUANTITY AND SIZES OF NOVEC 1230 CYLINDERS REQUIRED TO ADEQUATELY PROTECT THE TOTAL VOLUME OF THE ENCLOSED SPACE, INCLUDING ANY BELOW FLOOR AND PLENUM SPACES.

FIRE PROTECTION GENERAL NOTES:

- 1. REFER TO FIRE PROTECTION LEAD SHEET, FP-001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND PROJECT SCOPE DESCRIPTIONS FOR THIS PROJECT.
2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS BY THE FIRE PROTECTION CONTRACTOR.
3. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING ELEMENTS INCLUDING BUT NOT LIMITED TO, PIPING, DUCTWORK, LIGHTING FIXTURES, ETC.
4. PROVIDE SPRINKLER COVERAGE UNDER OBSTRUCTIONS AS REQUIRED BY NFPA-13.
5. PROVIDE ADDITIONAL SPRINKLER HEADS TO COMPLY WITH NFPA COVERAGE.



1 BUILDING NO. 2 - LEVEL 0 - FIRE PROTECTION SCALE: 1/8" = 1'-0"



1/4/2024 10:12:27 AM

PLUMBING FIXTURE SCHEDULE

Table with columns: TAG, FIXTURE, BASIS OF DESIGN MANUFACTURER AND MODEL, APPLICABLE STANDARD, MATERIAL, MOUNTING AND OUTLET, DIMENSIONS, RIM HEIGHT, FAUCETS, FITTINGS AND ACCESSORIES, BASIS. Includes items like RD-1, RD-2, RD-3, AD-1, FD-1, FD-2, NFWH, WC-1, WC-2, UR-1, LAV-1, SK-1, MR-1, EWC.

DOMESTIC WATER BOOSTER PUMP SCHEDULE

Table with columns: SYMBOL, LOCATION, GPM, RATED PUMP HEAD (FT HEAD), INLET / OUTLET, ELECTRICAL, PUMP BASIS OF DESIGN, BUFFER TANK BASIS OF DESIGN, REMARKS. Includes items DWBP-1 and DWBP-2.

ELEVATOR SUMP PUMP SCHEDULE

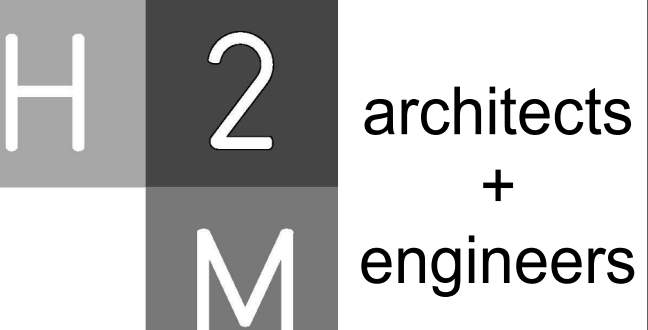
Table with columns: SYMBOL, LOCATION, GPM, HEAD (FT.), DISCHARGE OUTLET, ELECTRICAL, BASIS OF DESIGN, REMARKS. Includes item SP-1.

GAS REGULATOR SCHEDULE

Table with columns: SYMBOL, LOCATION, CAPACITY AT INLET (CFH), INLET PRESSURE, OUTLET PRESSURE. Includes items REG-1, REG-2, REG-3, REG-4.

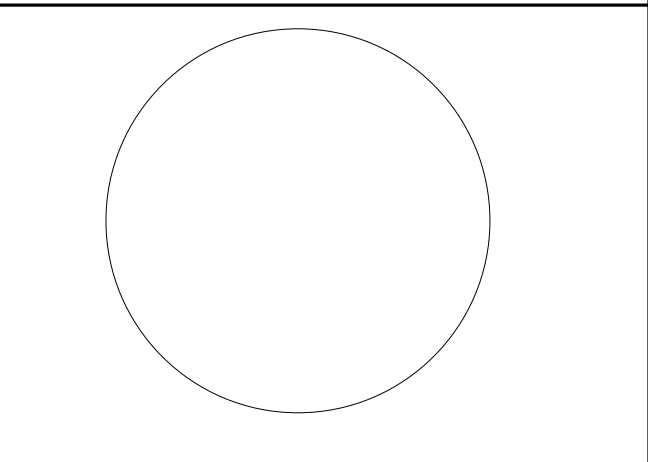
ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE

Table with columns: SYMBOL, LOCATION, CAPACITY (GALLONS), WATER ENT (°F), WATER LVG (°F), RECOVERY (GPH), TEMP RISE (°F), ELCTRICAL, OPER WEIGHT (LBS), WATER HEATER BASIS OF DESIGN, MIXING VALVE BASIS OF DESIGN, EXPANSION TANK BASIS OF DESIGN. Includes items HWH-1, HWH-2, HWH-3.



H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com

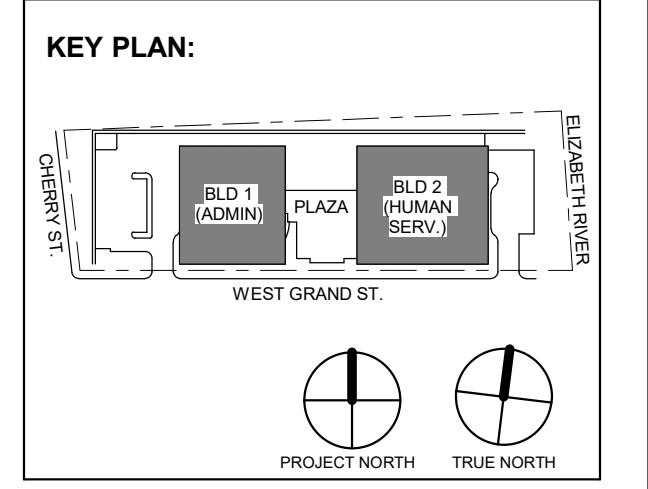
NJ Landscape Architecture Certificate No.: 21MH00010300 NJ Engineering Certificate of Authorization No.: 24GA26019100



JONATHAN R. MURATORE, P.E. PROFESSIONAL ENGINEER No. 348880037

DESIGNED BY: CRG DRAWN BY: JRM CHECKED BY: JRM REVIEWED BY: JRM

PROJECT No: DGA2301 DATE: 12.22.2023 SCALE: AS SHOWN



Revision table with columns: No., Date, Description, Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JMSH

Sheet Name: PLUMBING SCHEDULES

Sheet No: P-501

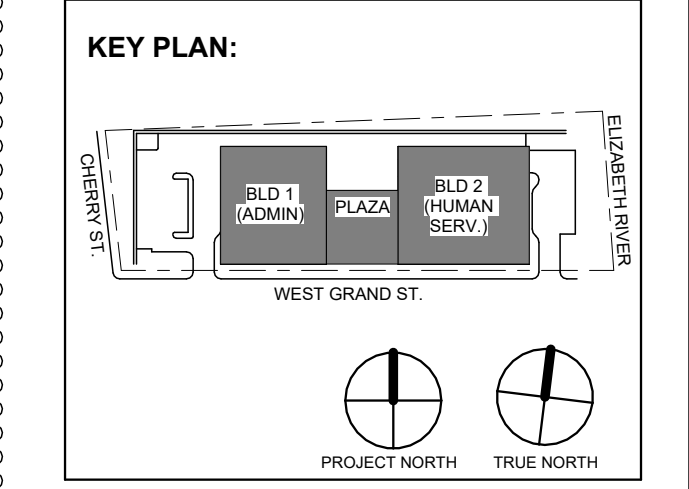
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1/11/2024 7:41:55 PM

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119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
NJ Landscape Architecture Certificate No.: 21MH00010300
NJ Engineering Certificate of Authorization No.: 24GA28019100

JOHN CHRIS MORRIS III, P.E.
Professional Engineer License No. 36866

DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



7. 1.12.2024 Addendum No. 07

No.	Date	Description

Revisions / Issues

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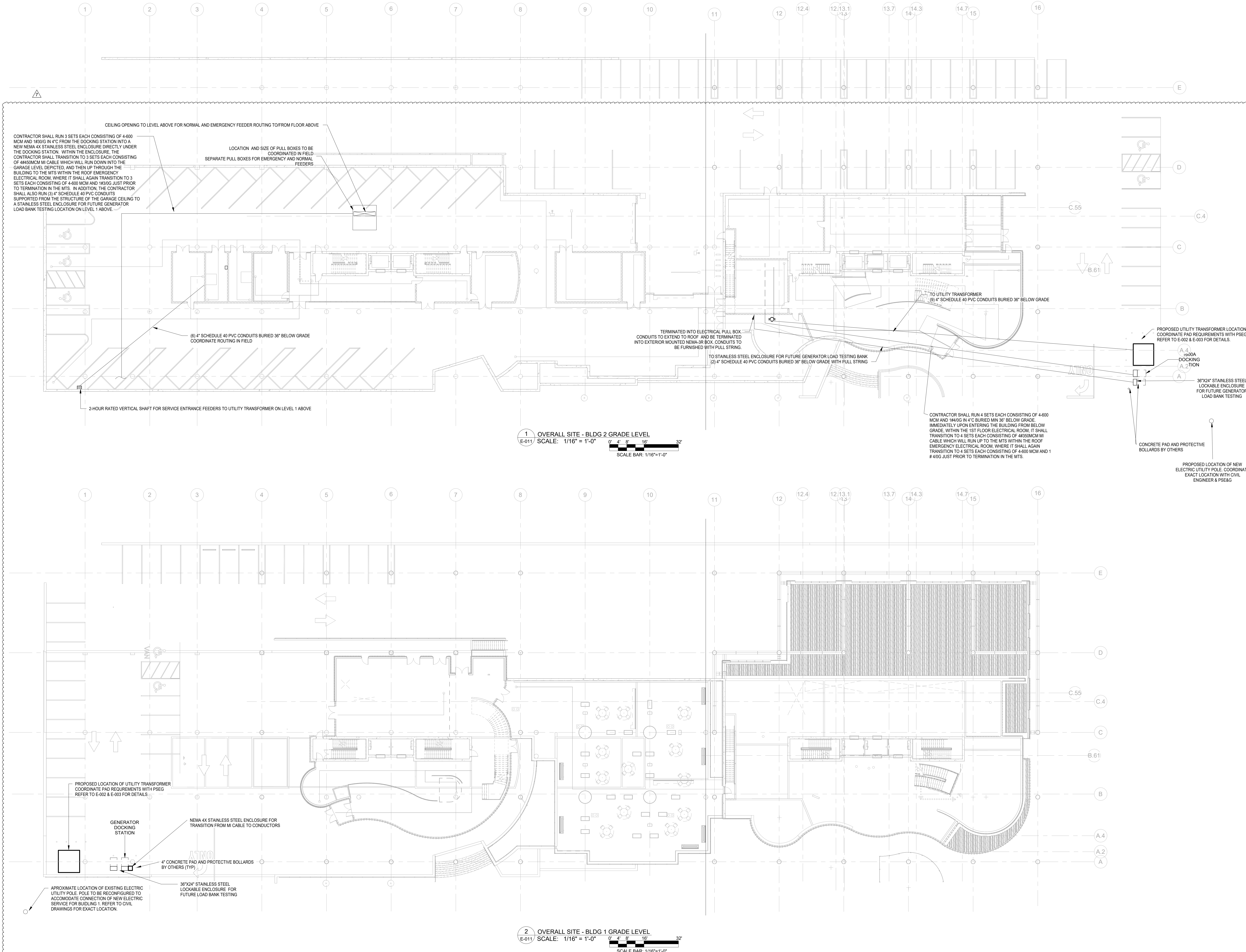
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
61 & 63 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
ELECTRICAL UNDERGROUND CONDUIT PLAN

Sheet No:
E-011



1 OVERALL SITE - BLDG 2 GRADE LEVEL
E-011 SCALE: 1/16" = 1'-0"
SCALE BAR: 1/16"=1'-0"

2 OVERALL SITE - BLDG 1 GRADE LEVEL
E-011 SCALE: 1/16" = 1'-0"
SCALE BAR: 1/16"=1'-0"

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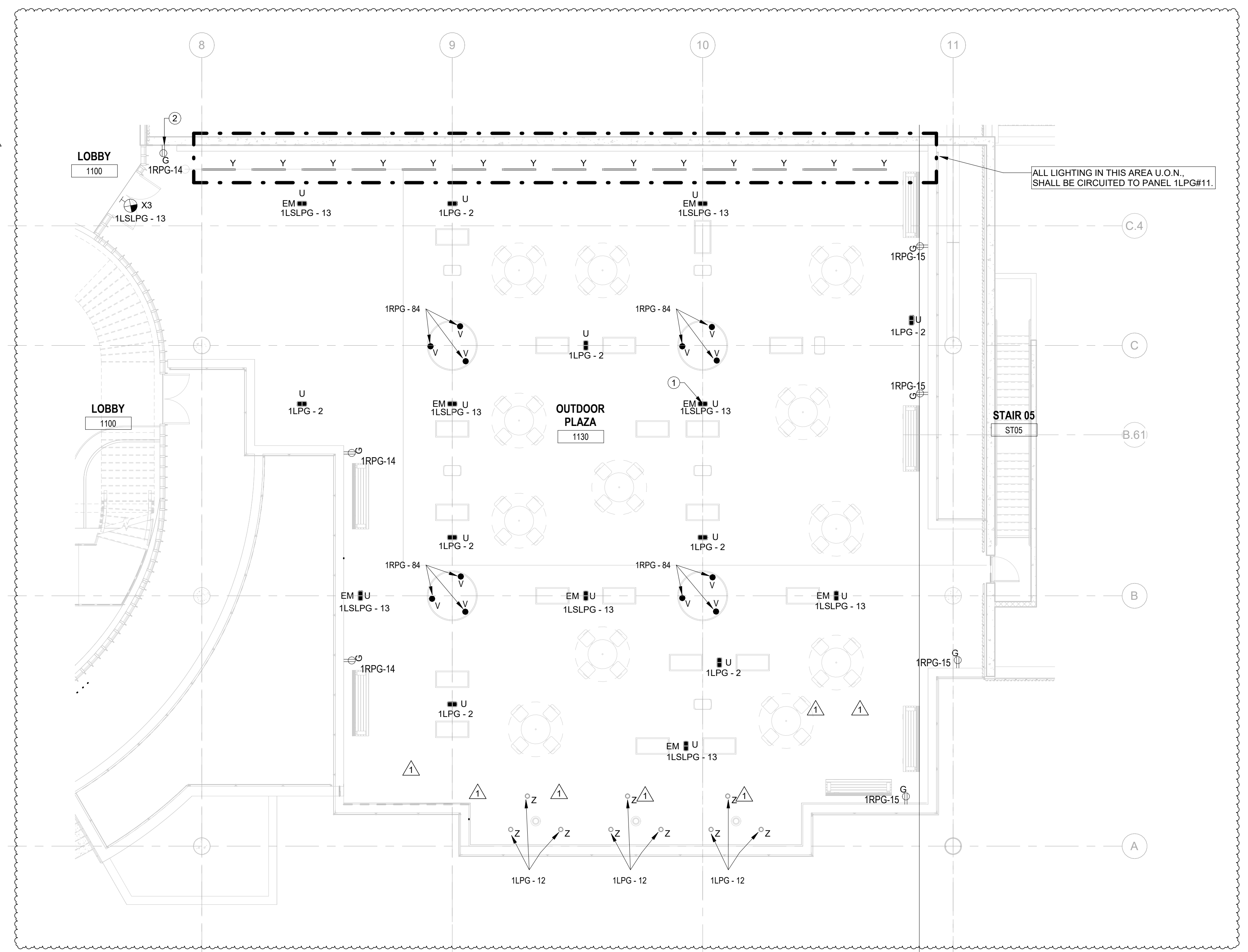
ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	LIGHT FIXTURE'S DRIVER SHALL BE INSTALLED IN AN WEATHERPROOF, ACCESSIBLE LOCATION. COORDINATE MOUNTING AND INSTALLATION REQUIREMENTS WITH MANUFACTURER (TYP. FOR ALL).
2	ALL GFCI EXTERIOR RECEPTACLES SHALL BE INSTALLED WITHIN A WEATHERPROOF-WHILE IN USE ENCLOSURE.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE ITAV AND SECURITY PLANS AS PREPARED BY MGE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING. CONDUITS FOR WALL MOUNTED DEVICES SHALL RUN UP TO ABOVE CEILING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUITS WITHIN OR THROUGH THE FLOOR SLAB FOR FLOOR BOXES AS WELL AS RISER CONDUITS AND SLEEVES FOR LOW VOLTAGE CABLING DISTRIBUTION. ELECTRICAL CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL GROUND BUSSING SHOWN/CALLED FOR AS PART OF THE ITAV AND SECURITY PLANS AND SPEC.

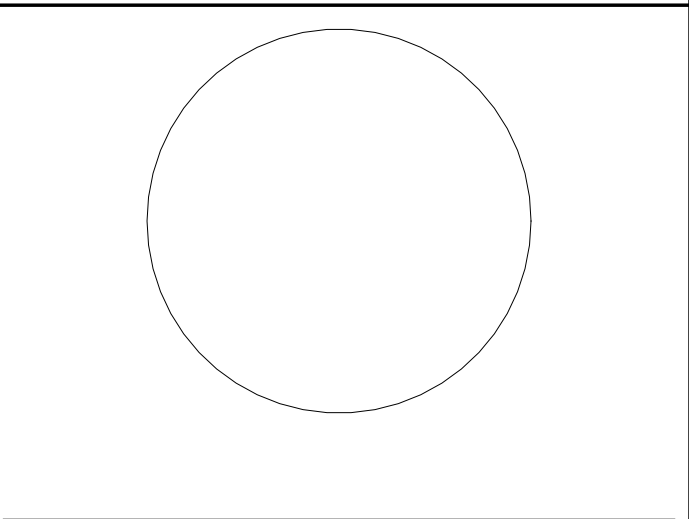
- GENERAL LIGHTING NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
 - REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
 - E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
 - INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS.
 - ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 - ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED.
 - E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:**
- MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS.
 - TYPES OF LIGHTING CONTROLS BY AREA:
 - COMMON AREAS: OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS:
 - THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE.
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
 - WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

- MEETING ROOMS AND CONFERENCE ROOMS:**
- CEILING MOUNTED VACANCY SENSORS SHALL PROVIDE THE BASIC LIGHTING CONTROL IN THESE AREAS.
 - A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "ON" AND "OFF".
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE WINDOWS WHERE WINDOWS ARE PRESENT. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS):
 - PROVIDE WIRELESS WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSORS.
 - A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "OFF".
 - OFFICE:
 - PROVIDE OCCUPANCY/VACANCY SENSOR.
 - PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.
 - JANITOR CLOSETS AND OTHER SMALL CLOSETS:
 - PROVIDE WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED VACANCY/OCCUPANCY SENSOR.
 - EXTERIOR BUILDING MOUNTED LIGHTING:
 - THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.
 - SITE LIGHTING:
 - THE LIGHTING ZONE SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.

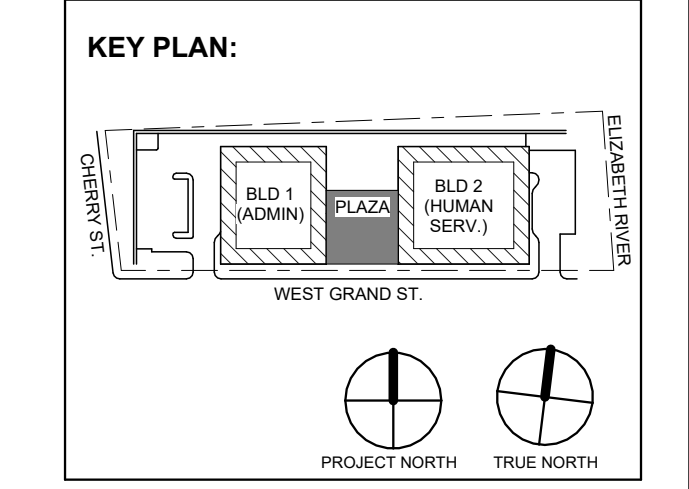


2 OUTDOOR PLAZA - ELECTRICAL POWER & LIGHTING PLAN
SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



JOHN CHRIS MORRIS III, P.E.
A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: SGS. REVIEWED BY: J.C.M.
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	11/22/2024	Addendum No. 07
3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
1	11/08/2023	For Public Bid

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ARCHITECTURE FOR CHANGE
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2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

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NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VP
Checked By: JM/SH

Sheet Name:
OUTDOOR PLAZA - ELECTRICAL POWER & LIGHTING PLANS

Sheet No:
E-100

1/11/2024 7:41:16 PM

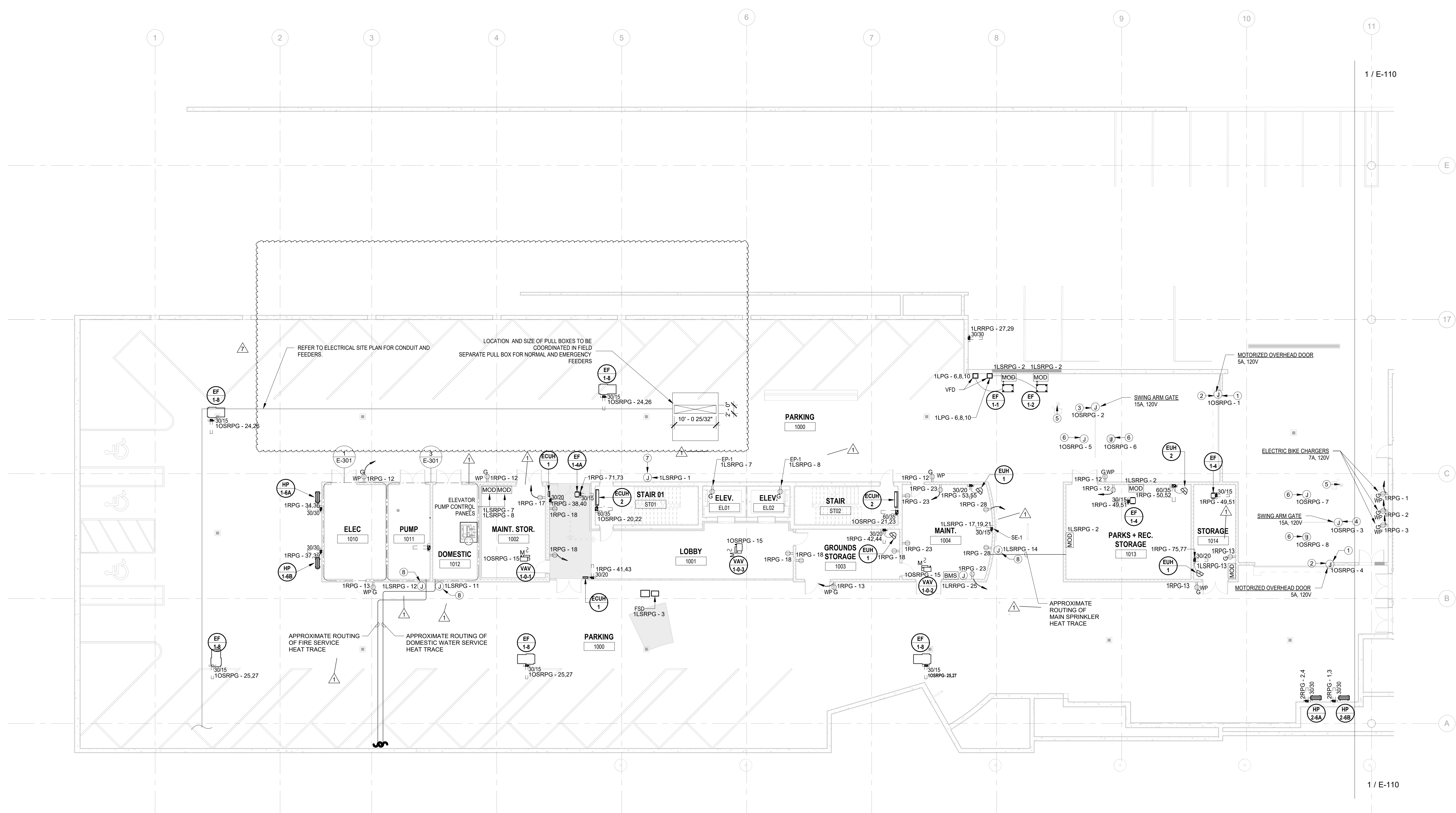
H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com

NJ Landscape Architecture Certificate No.: 21MH00010300 NJ Engineering Certificate of Authorization No.: 24GA28019100

ELECTRICAL KEYNOTE table with 8 rows and 2 columns: Key Value, Keynote Text.

GENERAL POWER PLAN NOTES. 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.

- GENERAL POWER PLAN NOTES. 2. REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL LEGENED AND ABBREVIATIONS. 3. CONTRACTOR SHALL REFER TO AUDIO VISUAL DRAWINGS BY UNIFIED TECHNOLOGIES CORP.

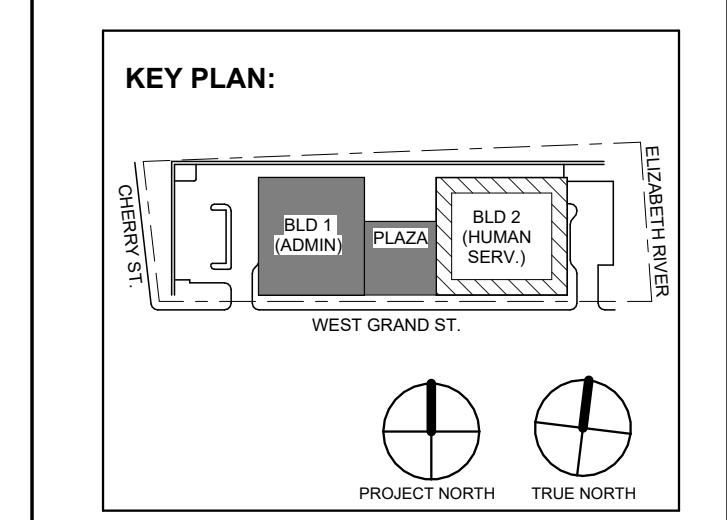


1 BUILDING NO. 1 - LEVEL 0 - ELECTRICAL POWER PLAN E-101 SCALE: 3/32" = 1'-0" SCALE BAR: 3/32"=1'-0"

JOHN CHRIS MORRIS III, P.E. PROFESSIONAL ENGINEER IN ELECTRICAL

DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY table with names J.J.L., J.J.L., S.G.S., J.C.M.

PROJECT No. DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revisions / Issues table with columns: No., Date, Description.

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

Sheet No: BUILDING NO. 1 - LEVEL 0 - ELECTRICAL POWER PLAN

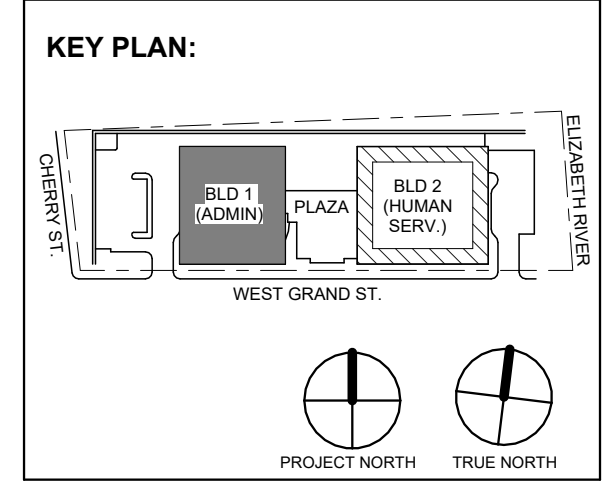
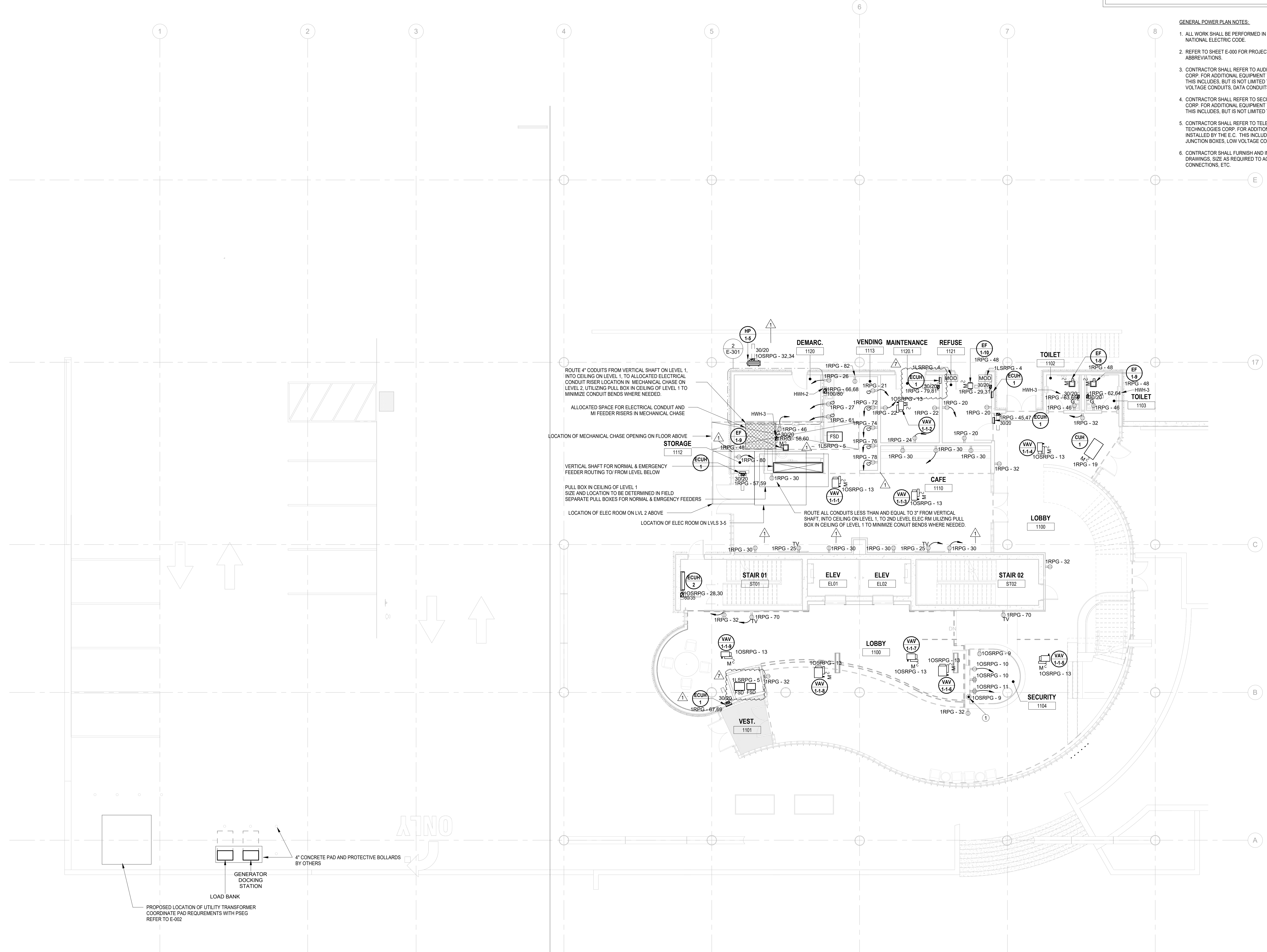
Sheet No: E-101

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FIRE RATED 6" POKE THRU WITH (2) QUADRAPLEX RECEPTACLES AND DATA OUTLET DEVICES. COORDINATE DATA DEVICE REQUIREMENTS WITH LOW VOLTAGE CONSULTANT. COORDINATE COLOR AND FINISHES WITH ARCHITECT & INTERIOR DESIGNER.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE ITAV AND SECURITY PLANS AS PREPARED BY MSE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING. CONDUITS FOR WALL MOUNTED DEVICES SHALL RUN UP TO ABOVE CEILING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUITS WITHIN OR THROUGH THE FLOOR SLAB FOR FLOOR BOXES AS WELL AS RISER CONDUITS AND SLEEVES FOR LOW VOLTAGE CABLING DISTRIBUTION. ELECTRICAL CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL GROUND BUSSING SHOWN/CALLED FOR AS PART OF THE ITAV AND SECURITY PLANS AND SPEC.

GENERAL POWER PLAN NOTES:

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6. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR BOXES WHERE INDICATED ON DRAWINGS. SIZE AS REQUIRED TO ACCOMMODATE ALL POWER, AV, DATA CONNECTIONS, ETC.



No.	Date	Description
7	11/22/2024	Addendum No. 07
3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
1	11/08/2023	For Public Bid

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UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VP
Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 1 - ELECTRICAL POWER PLAN

Sheet No:
E-102

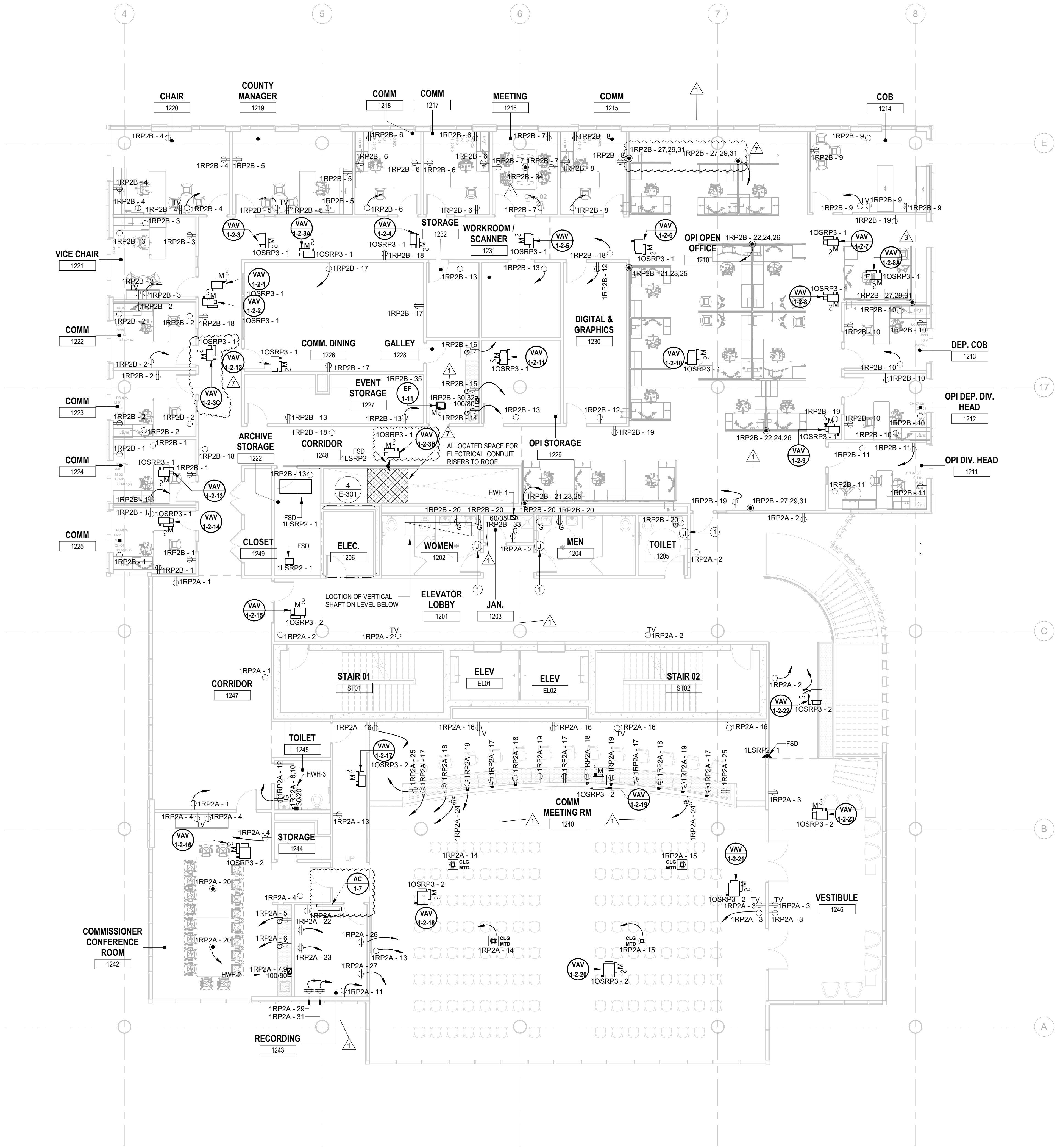
1 BUILDING NO.1 - LEVEL 1 - ELECTRICAL POWER PLAN
E-102 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM.

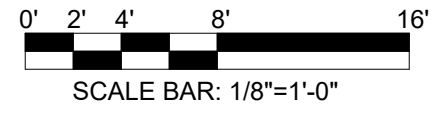
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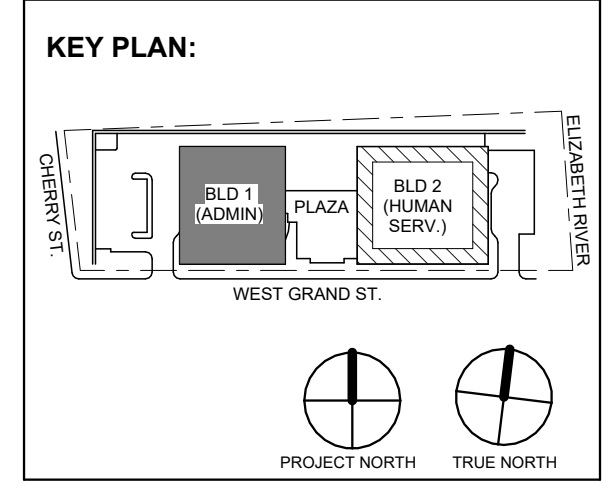
1 BUILDING NO. 1 - LEVEL 2 - ELECTRICAL POWER PLAN
 E-103 SCALE: 1/8" = 1'-0"



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 NJ Engineering Certificate of Authorization No.: 24GA28019100

JOHN CHRIS MORRIS III, P.E.
 ALTERNATE PROFESSIONAL DESIGNER (A.P.D.)

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
JJL	JJL	SGS	JCM
PROJECT NO.	DATE	SCALE	
DIGA2301	11/08/2023	AS SHOWN	



No.	Date	Description
7	11/22/2024	Addendum No. 07
3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
1	11/08/2023	For Public Bid

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 NJ RA AI 00827100

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Client:
 UNION COUNTY IMPROVEMENT AUTHORITY

Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 83 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/AVPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 2 - ELECTRICAL POWER PLAN

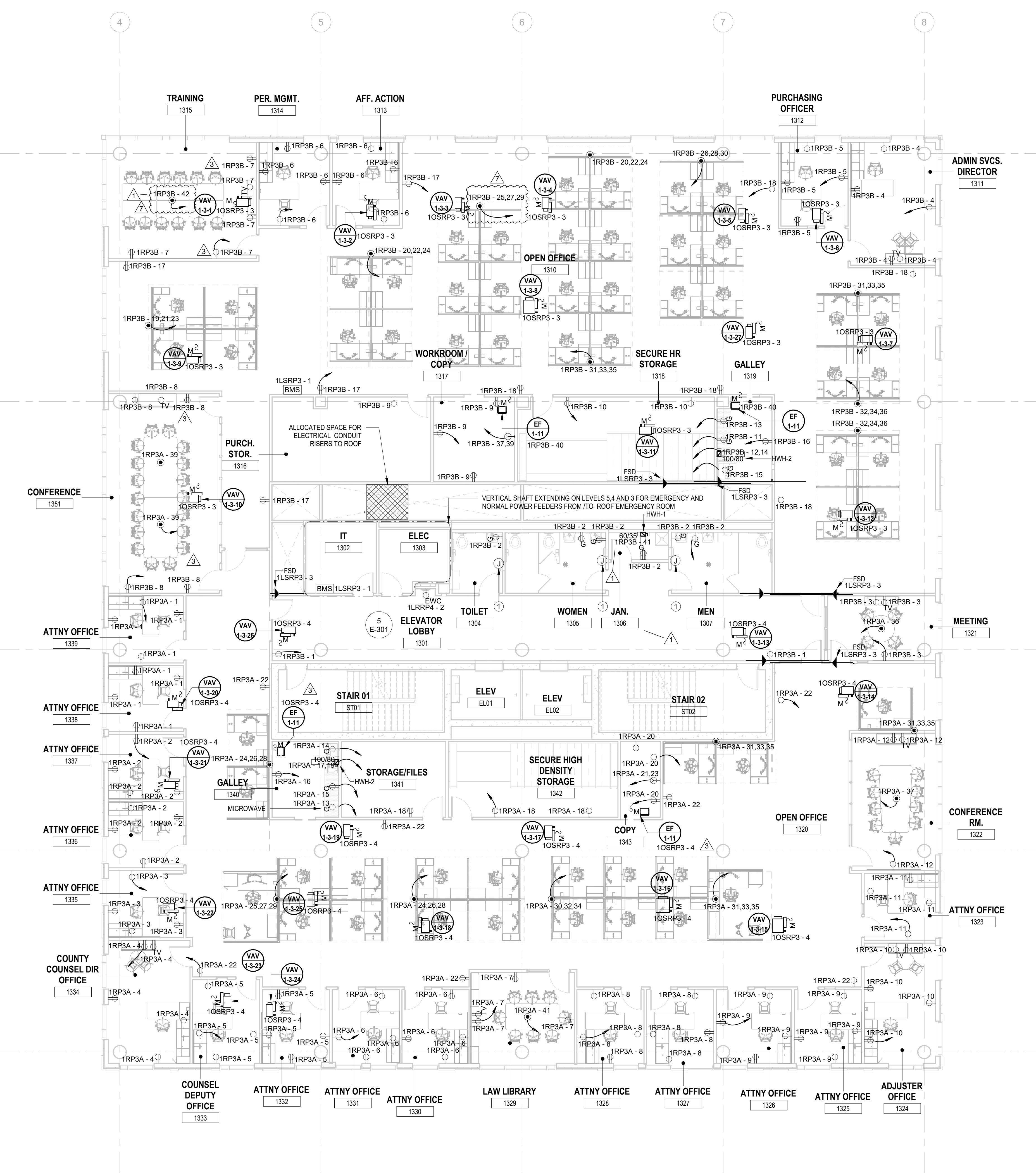
Sheet No:
E-103

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM.

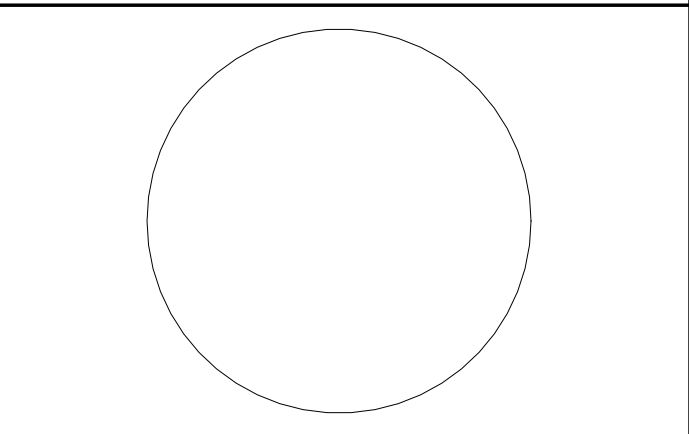
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1 BUILDING NO.1 - LEVEL 3 - ELECTRICAL POWER PLAN
 E-104 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"

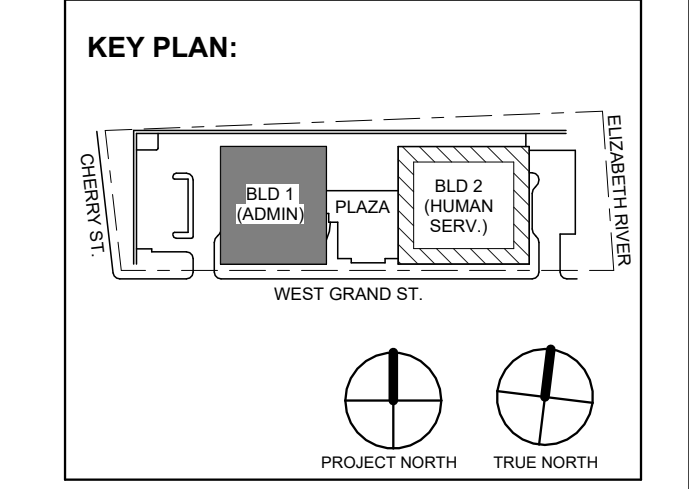


JOHN CHRIS MORRIS III, P.E.

ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS VOID.

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
JJL	JJL	SGS	JCM

PROJECT NO.	DATE	SCALE
DIGA2301	11/08/2023	AS SHOWN



No.	Date	Description
7	1/12/2024	Addendum No. 07
3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
1	11/08/2023	For Public Bid

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Client:
 UNION COUNTY IMPROVEMENT AUTHORITY

Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/AVPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 3 - ELECTRICAL POWER PLAN

Sheet No:
E-104

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JOHN CHRIS MORRIS III, P.E. ALTERNATE PROFESSIONAL ENGINEER

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, PROJECT No., DATE, SCALE

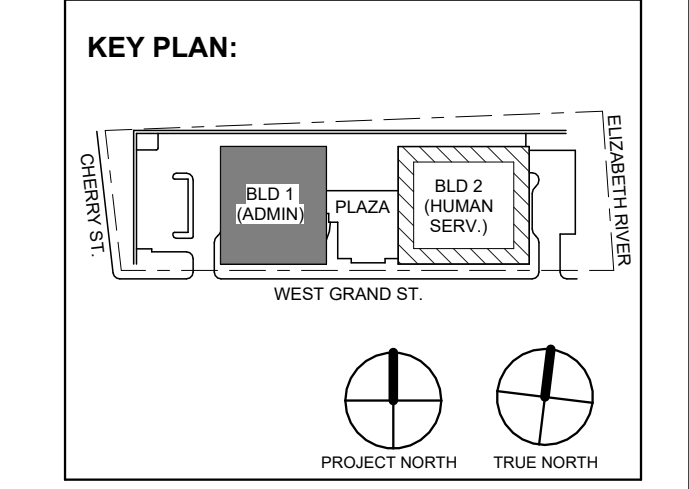


Table with columns: No., Date, Description, Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VP/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - ELECTRICAL POWER PLAN

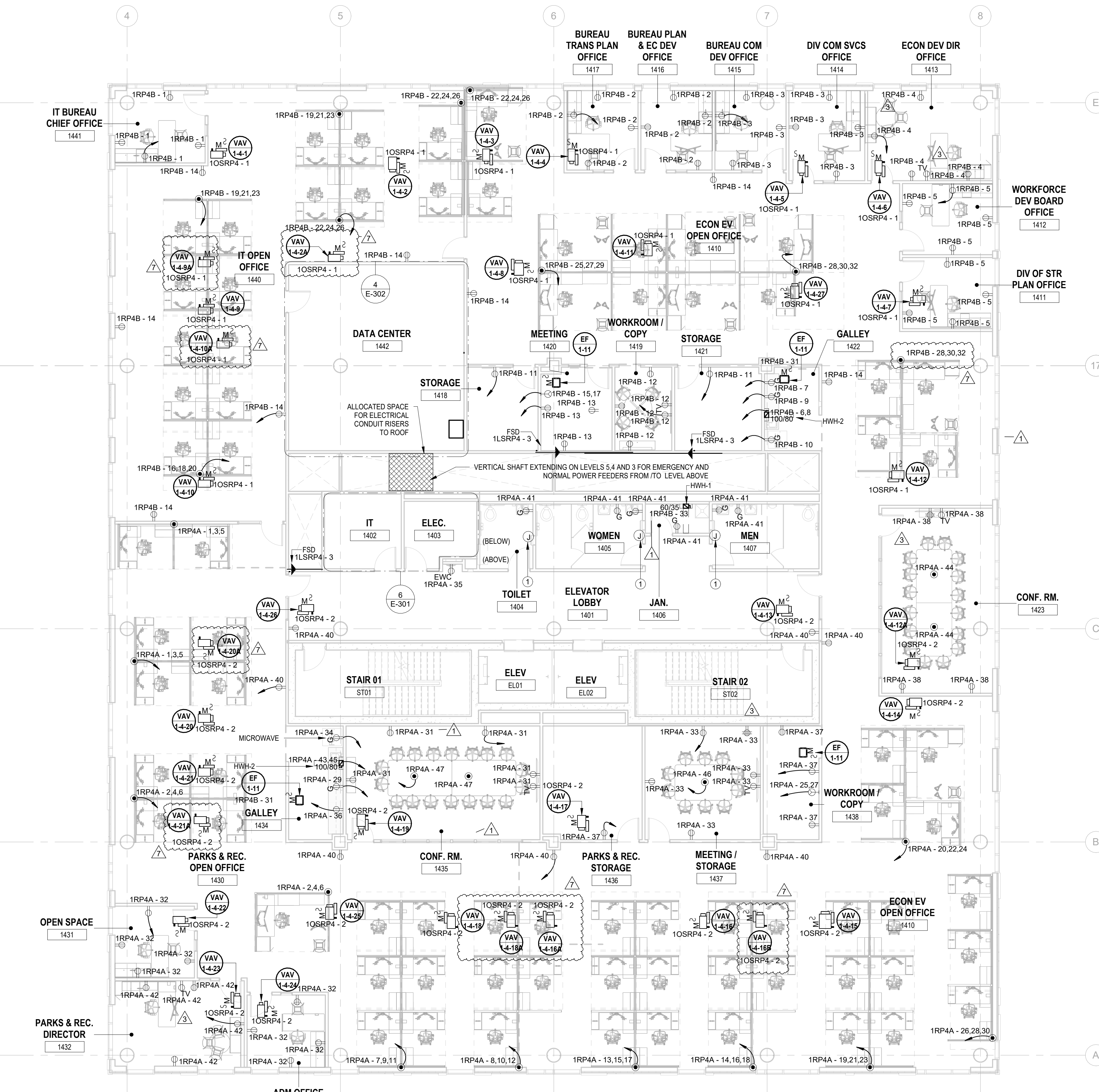
Sheet No: E-105

ELECTRICAL KEYNOTE table with Key Value and Keynote Text

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE ITAV AND SECURITY PLANS AS PREPARED BY MCF FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING.

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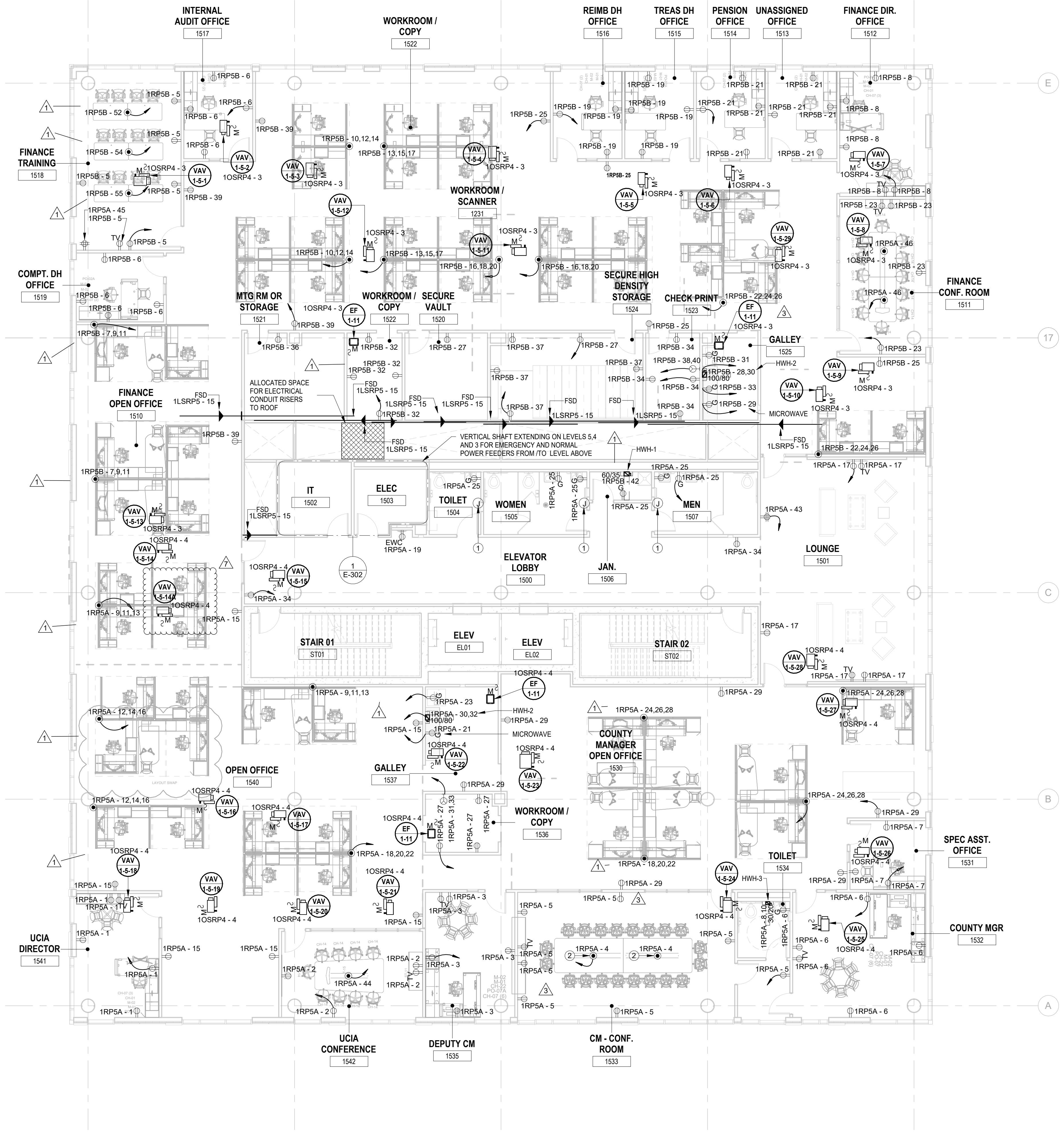


1 BUILDING NO. 1 - LEVEL 4 - ELECTRICAL POWER PLAN E-105 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM.
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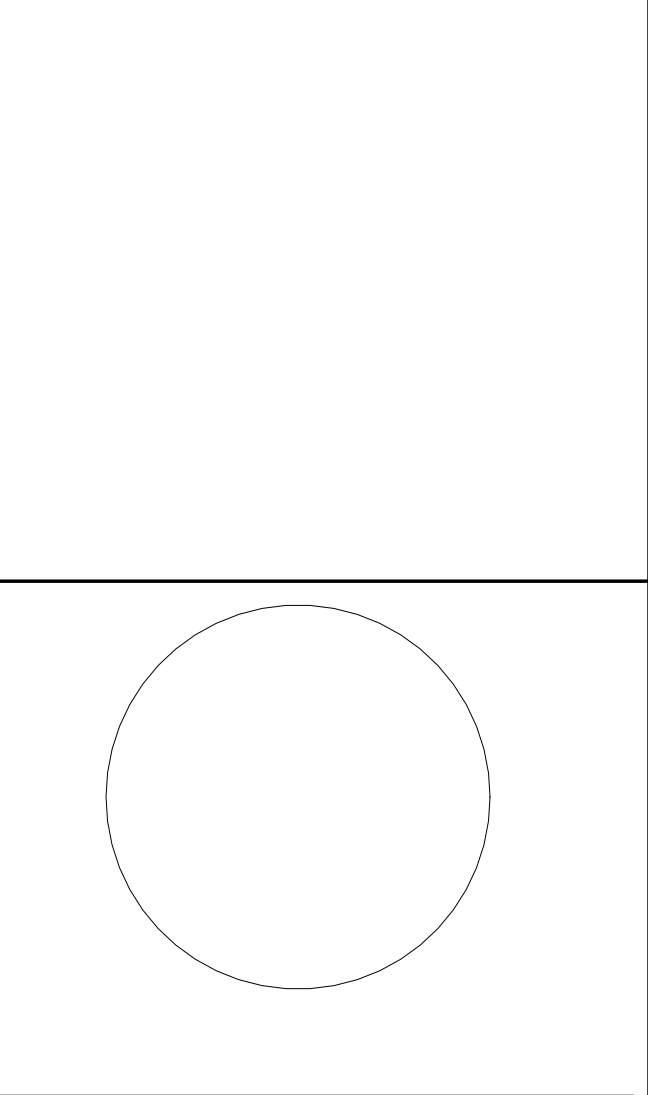
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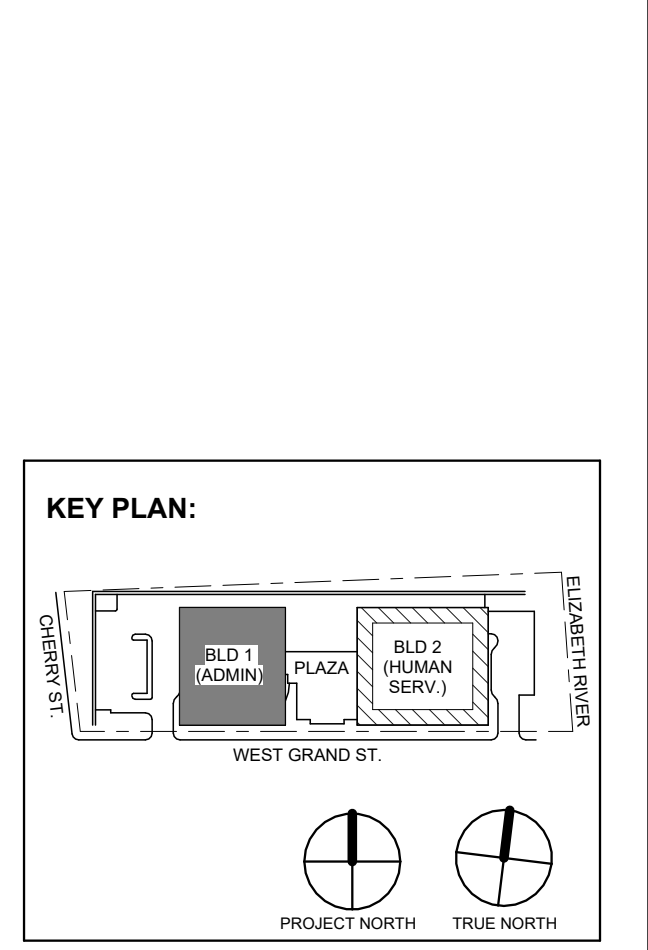


1 BUILDING NO. 1 - LEVEL 5 - ELECTRICAL POWER PLAN
 E-106 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"

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 NJ Landscape Architecture Certificate No.: 246A28019300
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DESIGNED BY	JUL	CHECKED BY	JUL	SCALE	AS SHOWN
DRAWN BY	JUL	SCALE	AS SHOWN		
PROJECT NO.	DIGA2301	DATE	11/08/2023	SCALE	AS SHOWN



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 Drawn By: JBA/VP/C
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BUILDING NO. 1 - LEVEL 5 - ELECTRICAL POWER PLAN

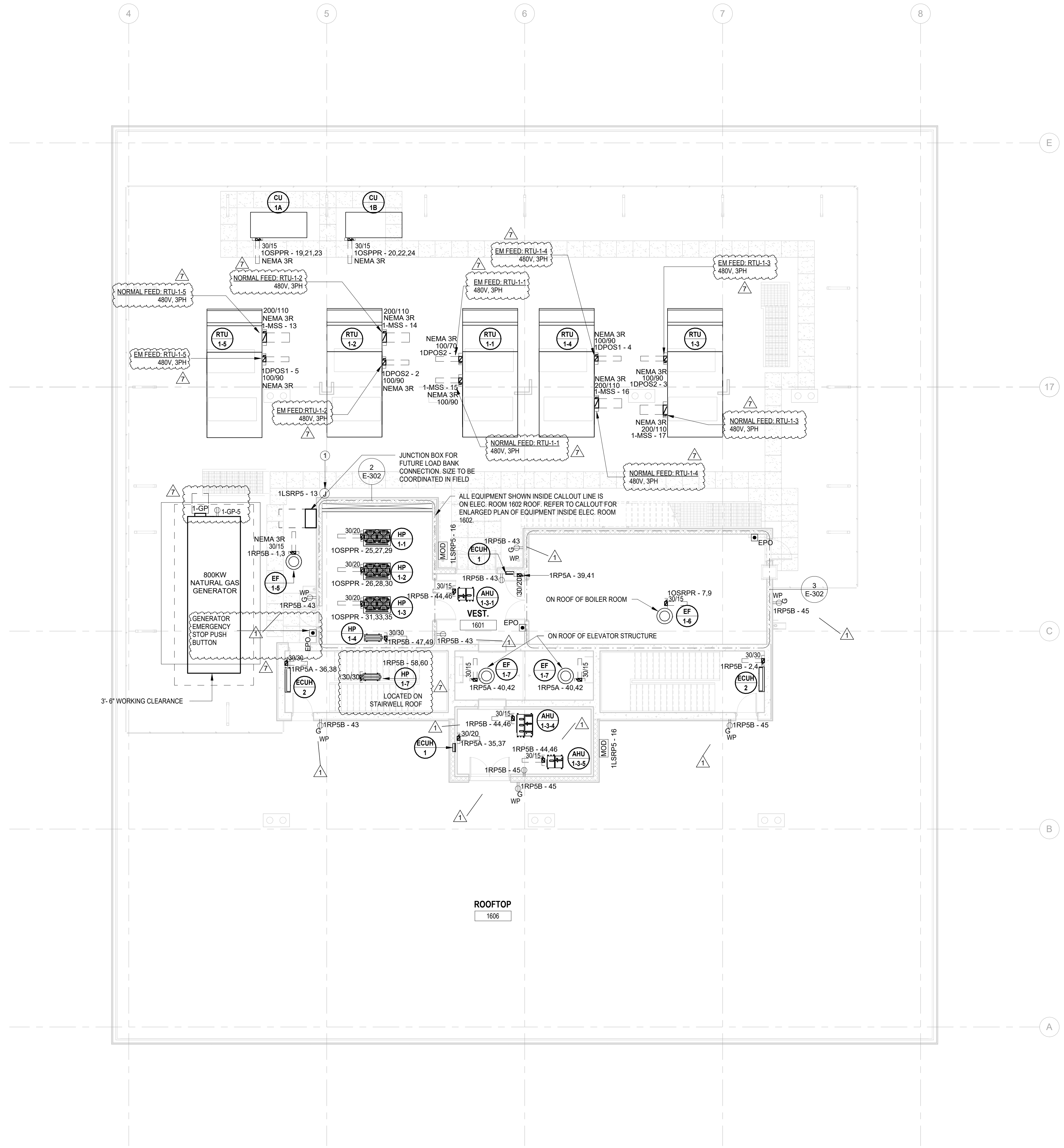
Sheet No:

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE LOCATION OF ALL MOTORIZED DAMPERS WITH MECHANICAL DRAWINGS AND INCLUDE IN THEIR SCOPE POWER AND CIRCUITING OF (5) DEVICES LOCATED ON THIS LEVEL.

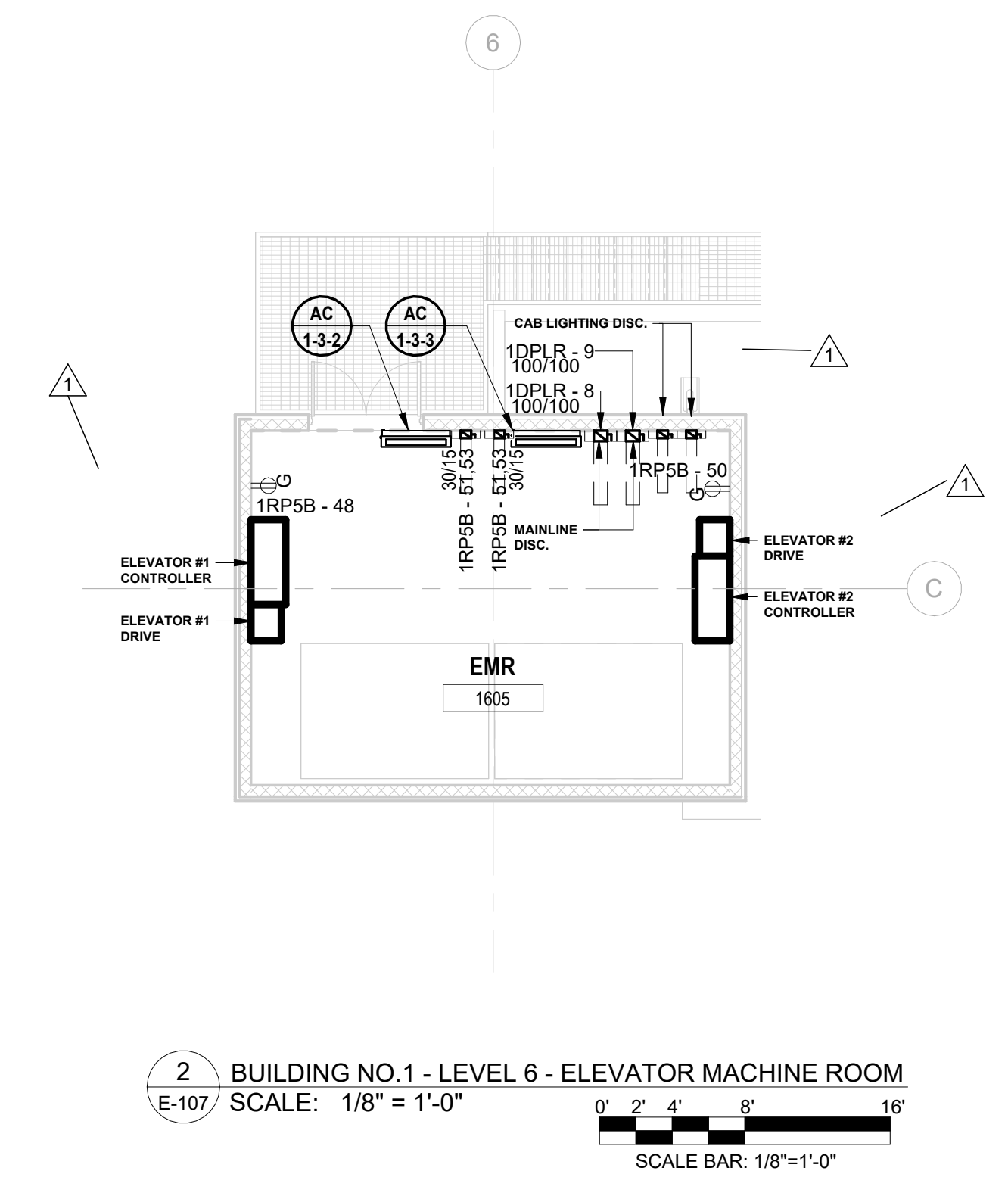
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6. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR BOXES WHERE INDICATED ON DRAWINGS, SIZE AS REQUIRED TO ACCOMMODATE ALL POWER, AV, DATA CONNECTIONS, ETC.



1 BUILDING NO. 1 - ROOF - ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

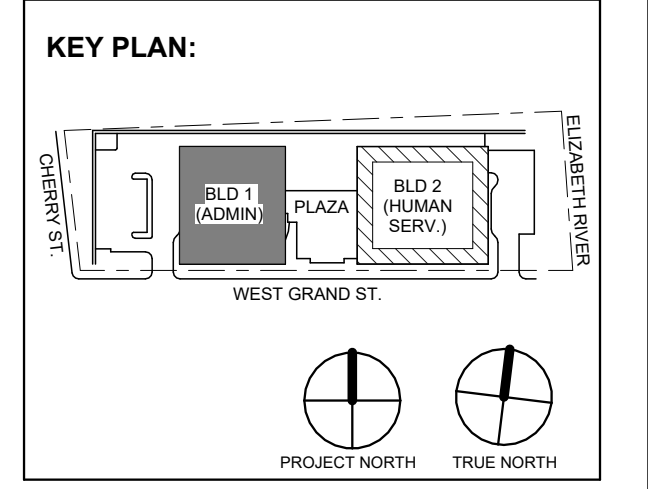


2 BUILDING NO. 1 - LEVEL 6 - ELEVATOR MACHINE ROOM
SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

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119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
NJ Landscape Architecture Certificate No.: 246A28019300
NJ Engineering Certificate of Authorization No.: 246A28019100

JOHN CHRIS MORRIS III, P.E.
A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
JJL	JJL	SGS	JCM
PROJECT No.	DATE	SCALE	
DIGA2301	11/08/2023	AS SHOWN	



No.	Date	Description
7	1/12/2024	Addendum No. 07
3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
1	11/08/2023	For Public Bid

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Jeffrey D. Venezia, AIA
NJ RA AI 00827100

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Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - ROOF - ELECTRICAL POWER PLAN

Sheet No:
E-107

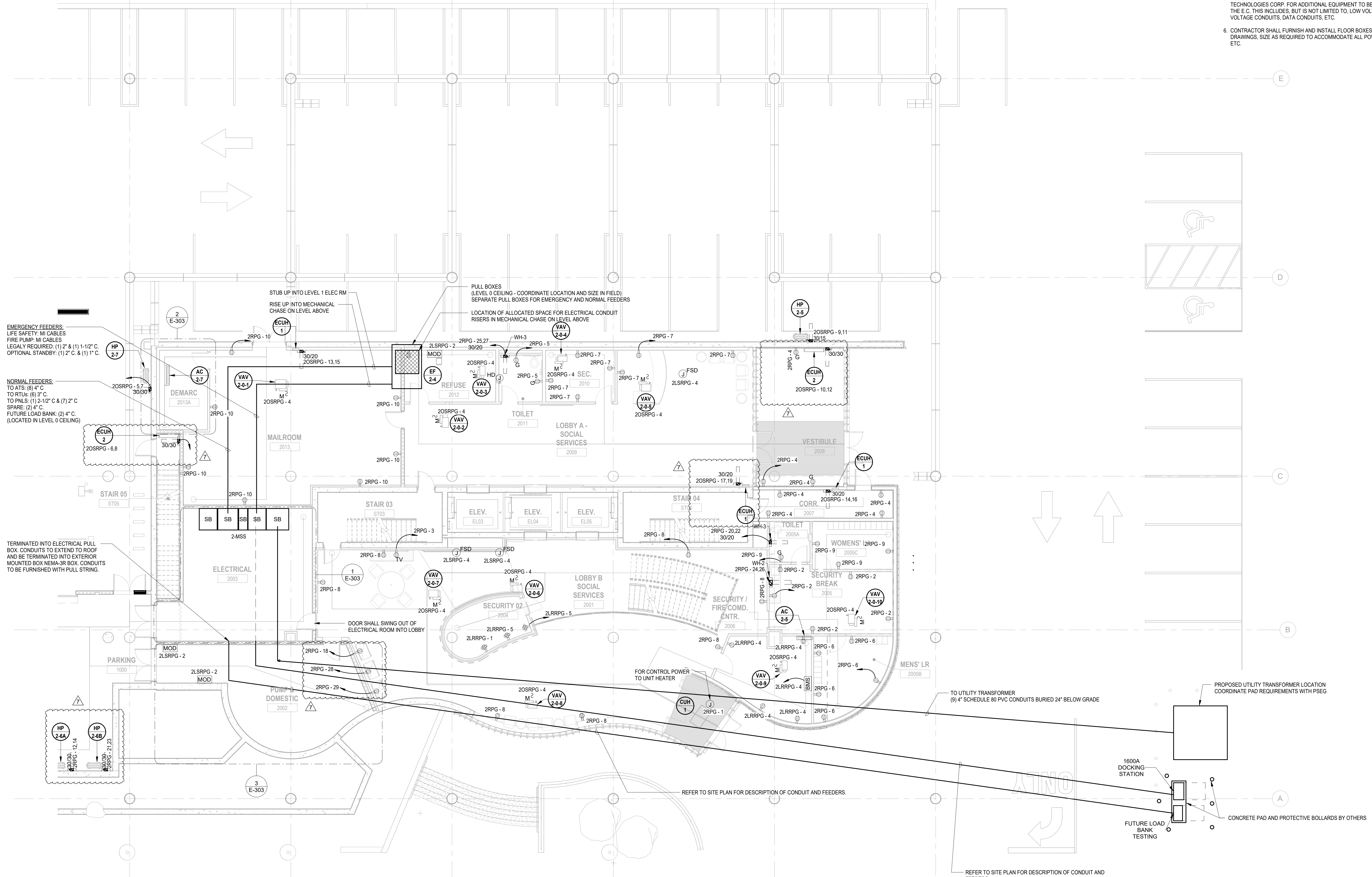
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE IT/AV AND SECURITY PLANS AS PREPARED BY MSE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING.

GENERAL POWER PLAN NOTES:

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1 / E-101

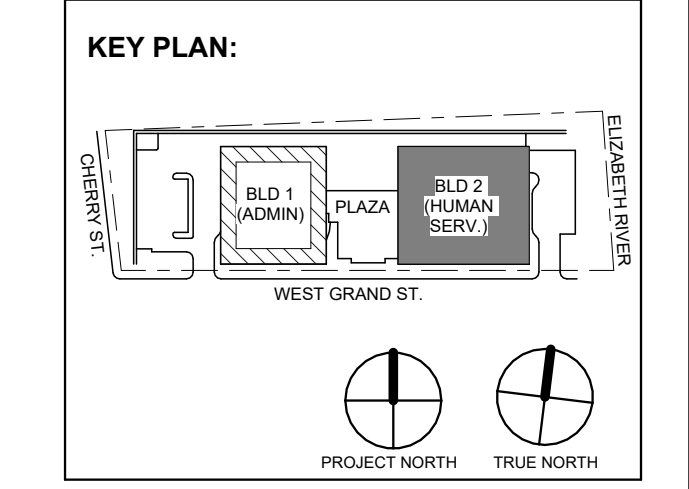
1 / E-101



EMERGENCY FEEDERS: LIFE SAFETY, MI CABLES, FIRE PUMP, MI CABLES. LEGALLY REQUIRED (1) 2" & (1) 1-1/2" C. OPTIONAL STANDBY: (1) 2" C. & (1) 1" C.
NORMAL FEEDERS: TO ATS: (8) 4" C. TO RTUS: (8) 1" C. TO PNLs: (1) 2-1/2" C & (7) 2" C SPARE (2) 4" C. FUTURE LOAD BANK: (2) 4" C. (LOCATED IN LEVEL 0 CEILING)

TERMINATED INTO ELECTRICAL PULL BOX. CONDUITS TO EXTEND TO ROOF AND BE TERMINATED INTO EXTERIOR MOUNTED BOX NEMA-3R BOX. CONDUITS TO BE FURNISHED WITH PULL STRINGS.

1 BUILDING NO.2 - LEVEL 0 - ELECTRICAL POWER PLAN E-110 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for Addendum No. 07, 03, 01, and Public Bid.

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JM/SH

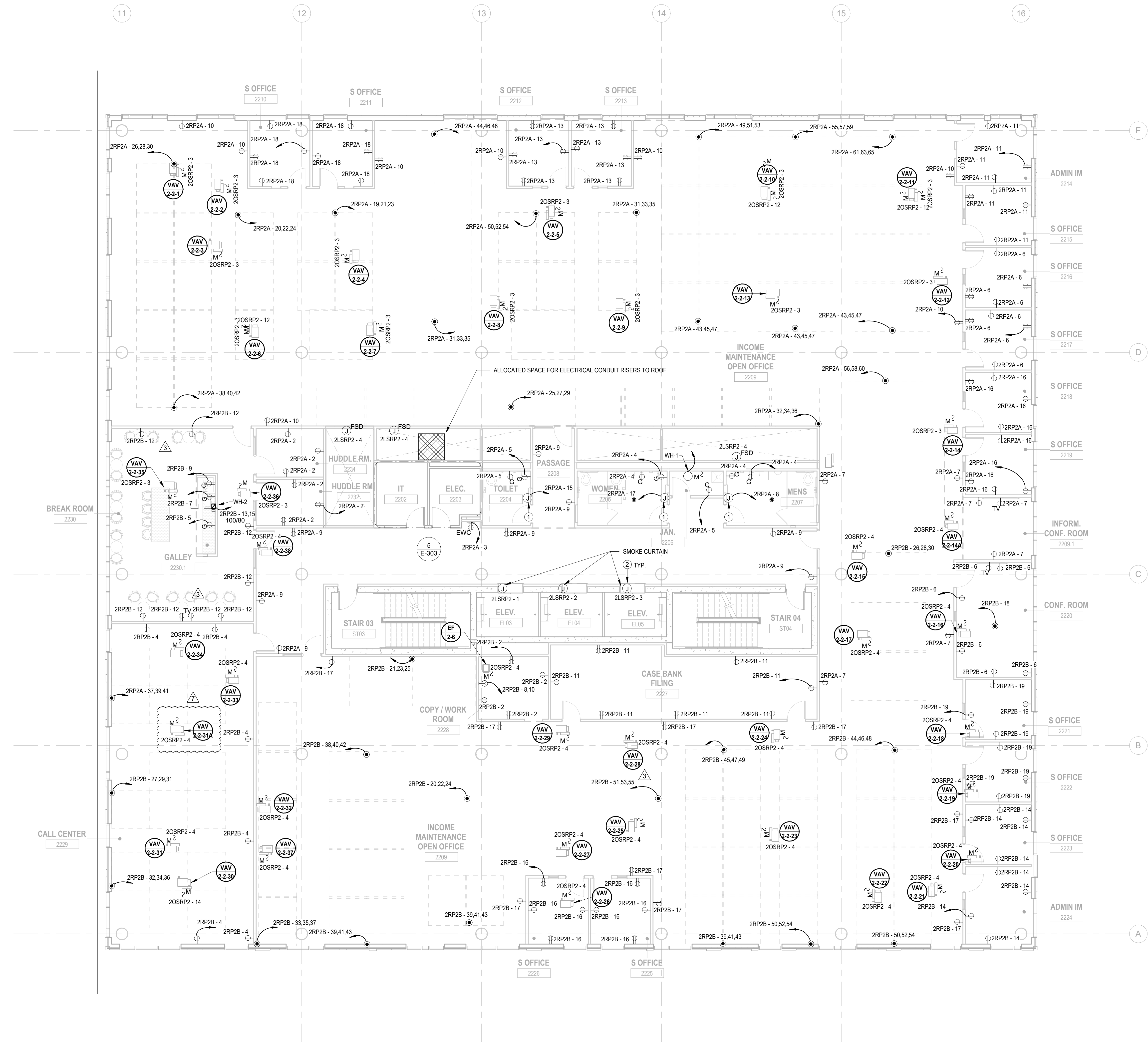
Sheet Name: BUILDING NO. 2 - LEVEL 0 - ELECTRICAL POWER PLAN

Sheet No: E-110

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM.
2	SMOKE CURTAINS SHALL BE TIED INTO FIRE ALARM SYSTEM. E.C. SHALL INCLUDE IN THEIR BID SCOPE RELATED WITH INTERFACE, WIRING AND NECESSARY ACCESSORIES FOR FULLY FUNCTIONAL OPERATION & INTEGRATION.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE IT/AV AND SECURITY PLANS AS PREPARED BY M&E FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING. CONDUITS FOR WALL MOUNTED DEVICES SHALL RUN UP TO ABOVE CEILING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUITS WITHIN OR THROUGH THE FLOOR SLAB FOR FLOOR BOXES AS WELL AS RISER CONDUITS AND SLEEVES FOR LOW VOLTAGE CABLING DISTRIBUTION. ELECTRICAL CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL GROUND BUSSING SHOWN/CALLED FOR AS PART OF THE IT/AV AND SECURITY PLANS AND SPEC.

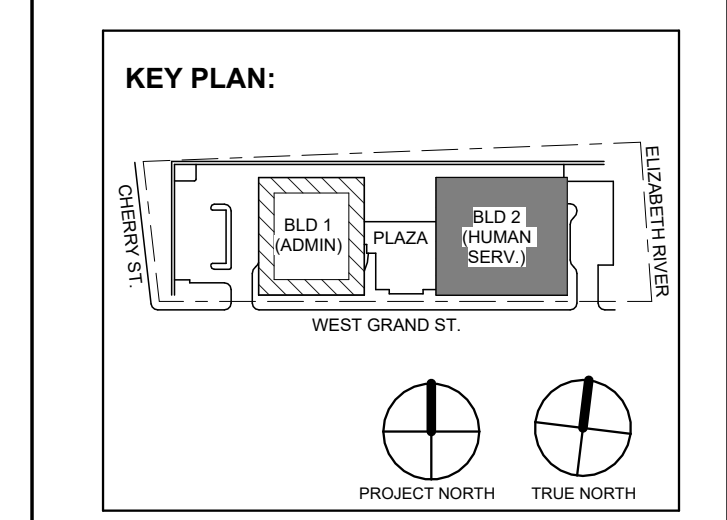
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1 BUILDING NO. 2 - LEVEL 2 - ELECTRICAL POWER PLAN
 E-112 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8" = 1'-0"

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JOHN CHRIS MORRIS III, P.E.
 ALTERNATE OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LEGAL.
 DESIGNED BY: N/A DRAWN BY: N/A CHECKED BY: SGS REVIEWED BY: JCM
 PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	1.12.2024	Addendum No. 07
3	12.15.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

Revisions / Issues

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 NJ RA AI 00827100

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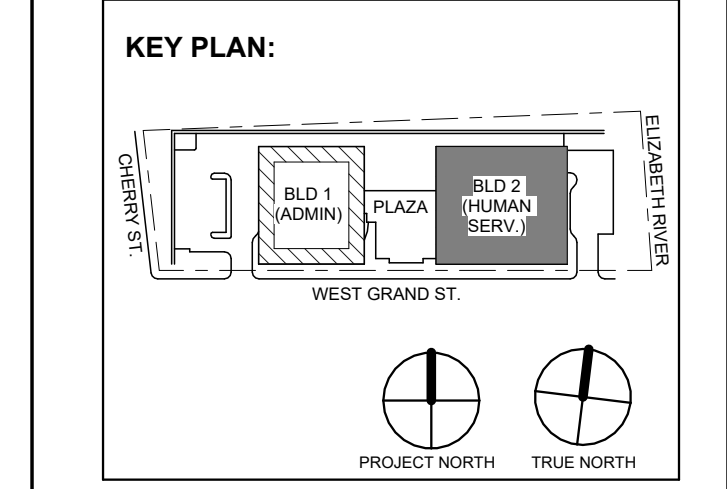
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
 81 & 83 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/AVPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 2 - ELECTRICAL POWER PLAN

Sheet No:
E-112



Revision table with columns: No., Date, Description, Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 4 - ELECTRICAL POWER PLAN

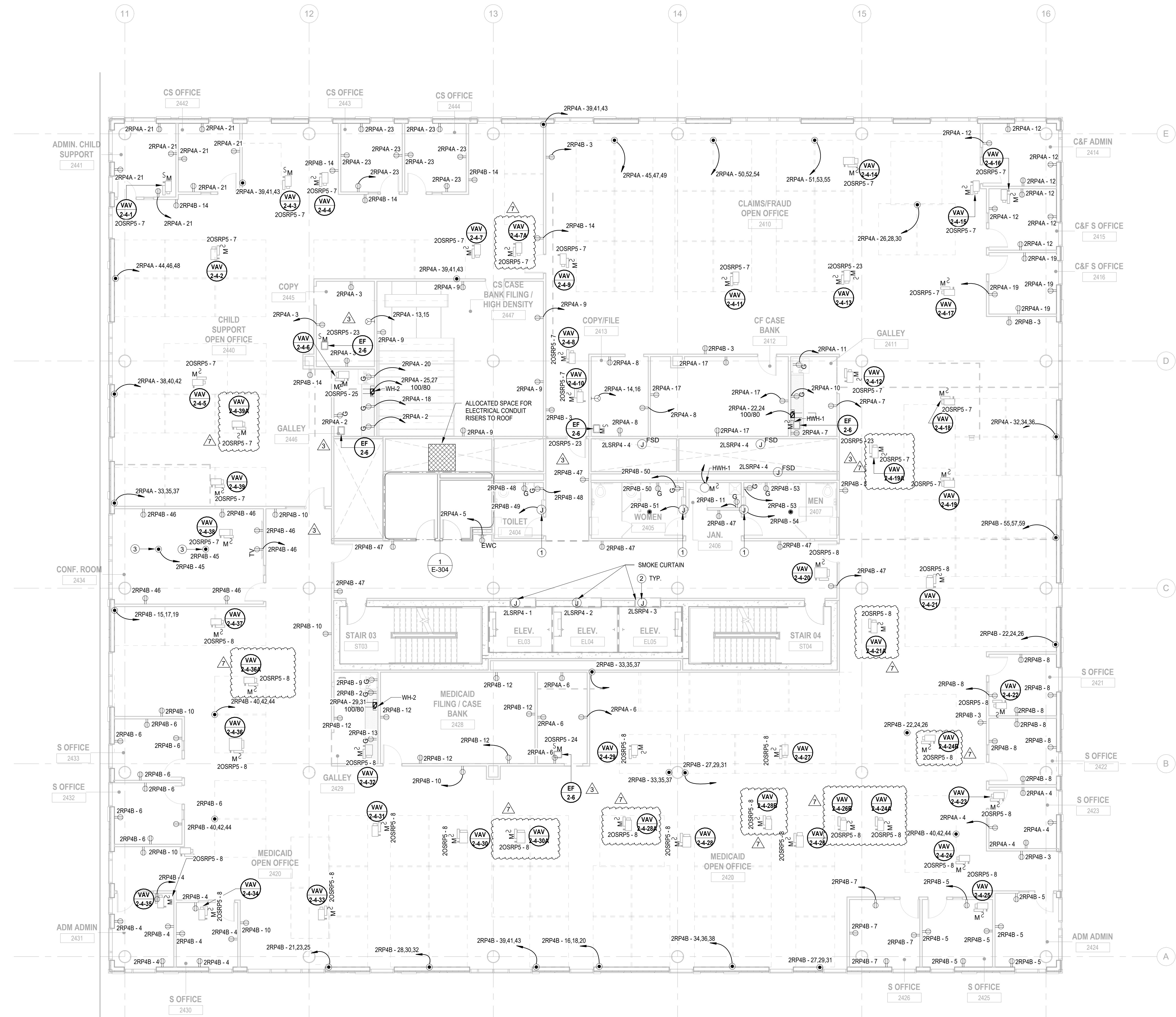
Sheet No: E-114

ELECTRICAL KEYNOTE table with 3 rows of key values and descriptions.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE IT&V AND SECURITY PLANS AS PREPARED BY MGE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING.

GENERAL POWER PLAN NOTES

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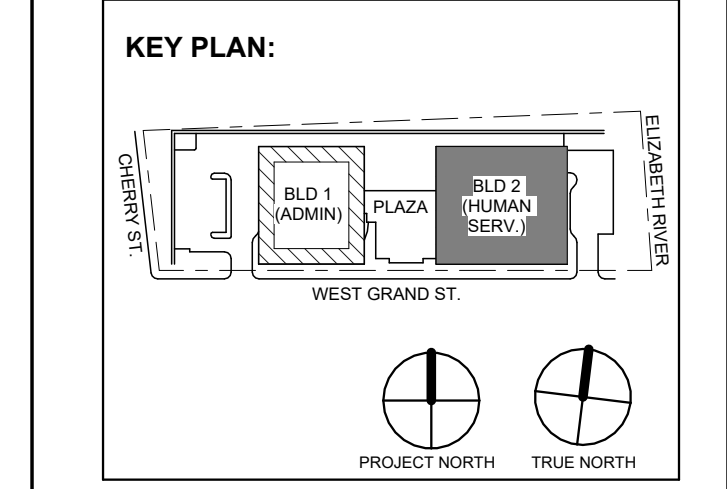


Table with 3 columns: No., Date, Description. Lists revisions and issues.

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Jeffrey D. Venezia, AIA NJ RA AI 00827100

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

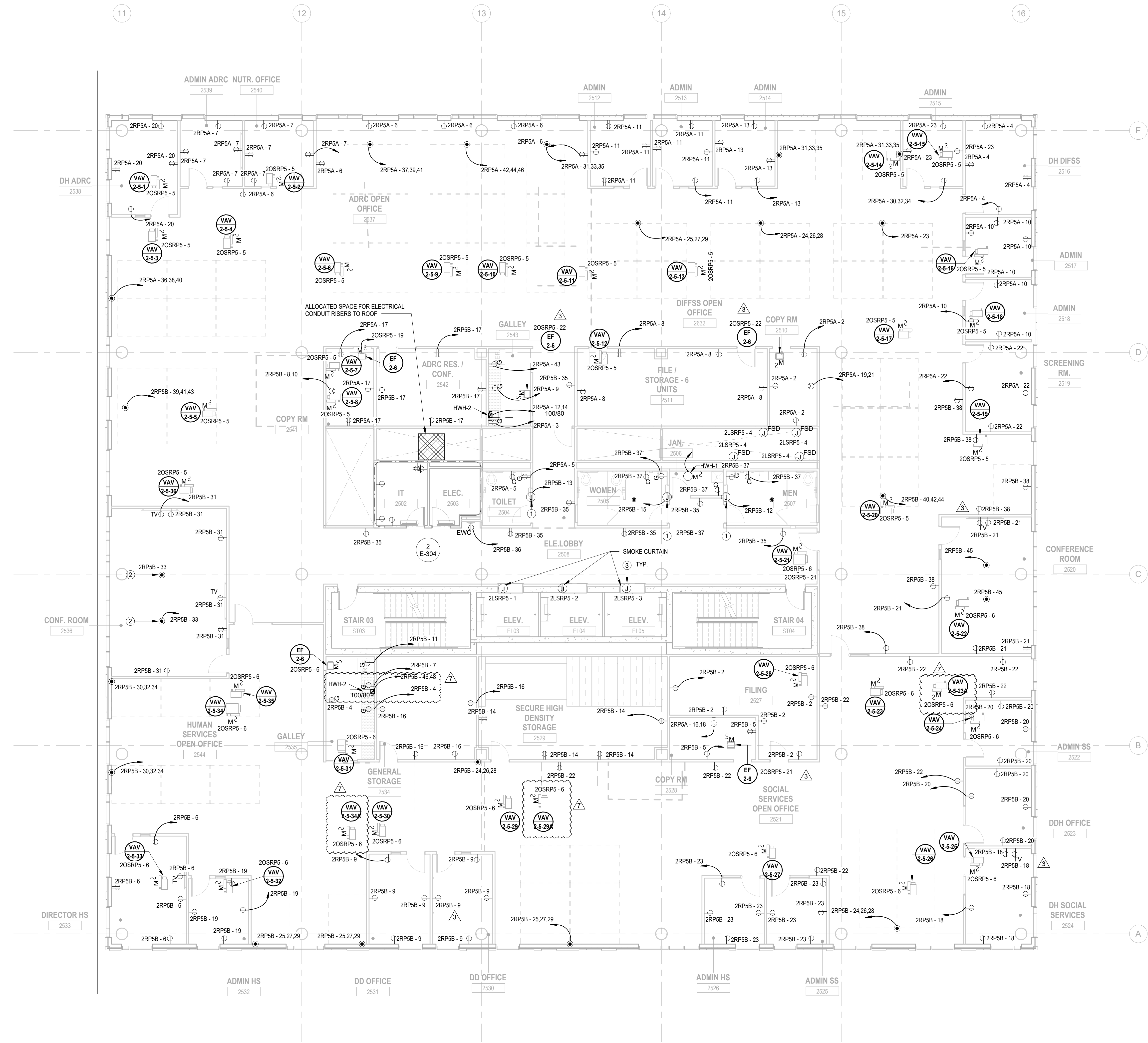
Sheet Name: BUILDING NO. 2 - LEVEL 5 - ELECTRICAL POWER PLAN

Sheet No: E-115

ELECTRICAL KEYNOTE table with 3 rows and 2 columns: Key Value and Keynote Text.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE ITAV AND SECURITY PLANS AS PREPARED BY MGE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING.

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1 BUILDING NO. 2 - LEVEL 5 - ELECTRICAL POWER PLAN E-115 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

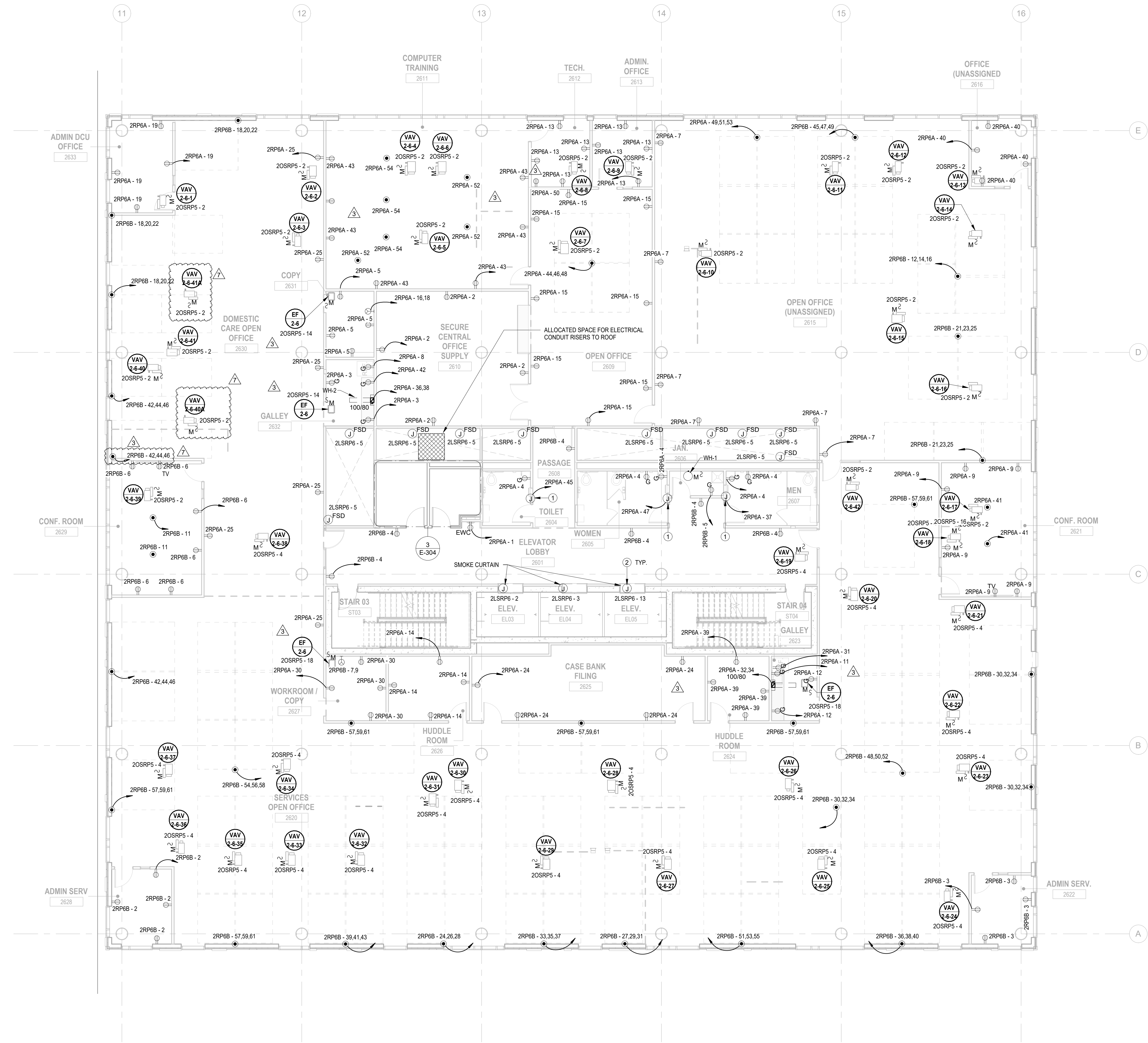
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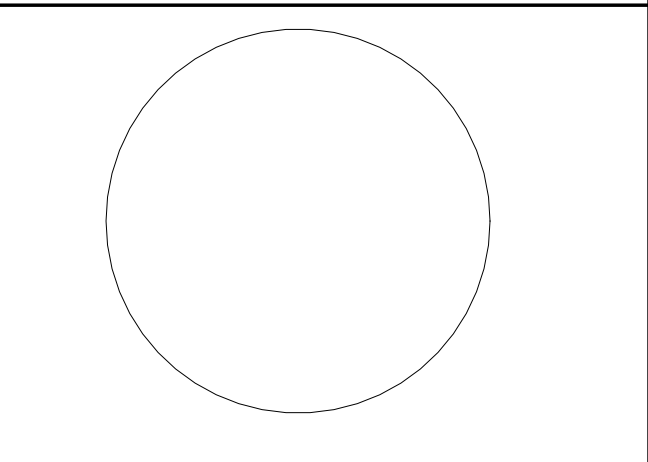
ELECTRICAL KEYNOTE	
Key Value	Keynote Text
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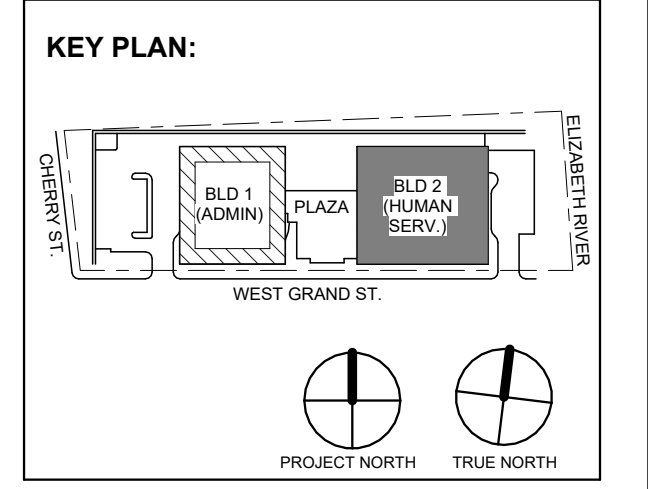
1 BUILDING NO. 2 - LEVEL 6 - ELECTRICAL POWER PLAN
 E-116 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E.
 NJ PROFESSIONAL ENGINEER License No. 35888

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
NJA	NJA	SGS	JCM

PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	1.12.2024	Addendum No. 07
3	12.15.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

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 NJ RA AI 00827100

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Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
 81 & 83 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/VPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 6 - ELECTRICAL POWER PLAN

Sheet No:
E-116

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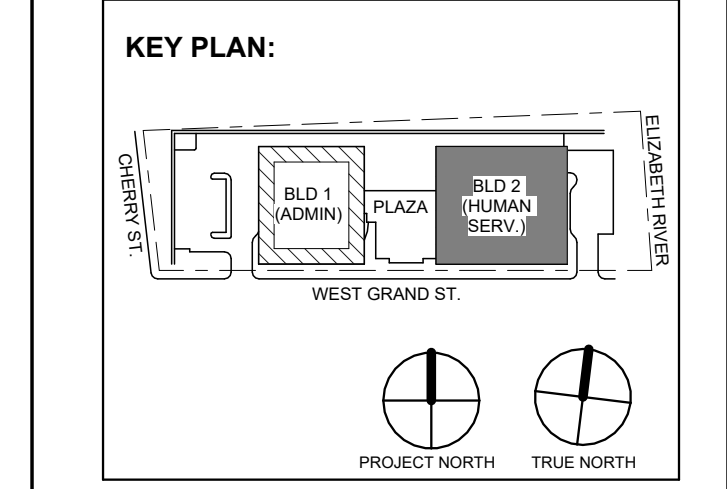


Table with 3 columns: No., Date, Description. Revisions / Issues.

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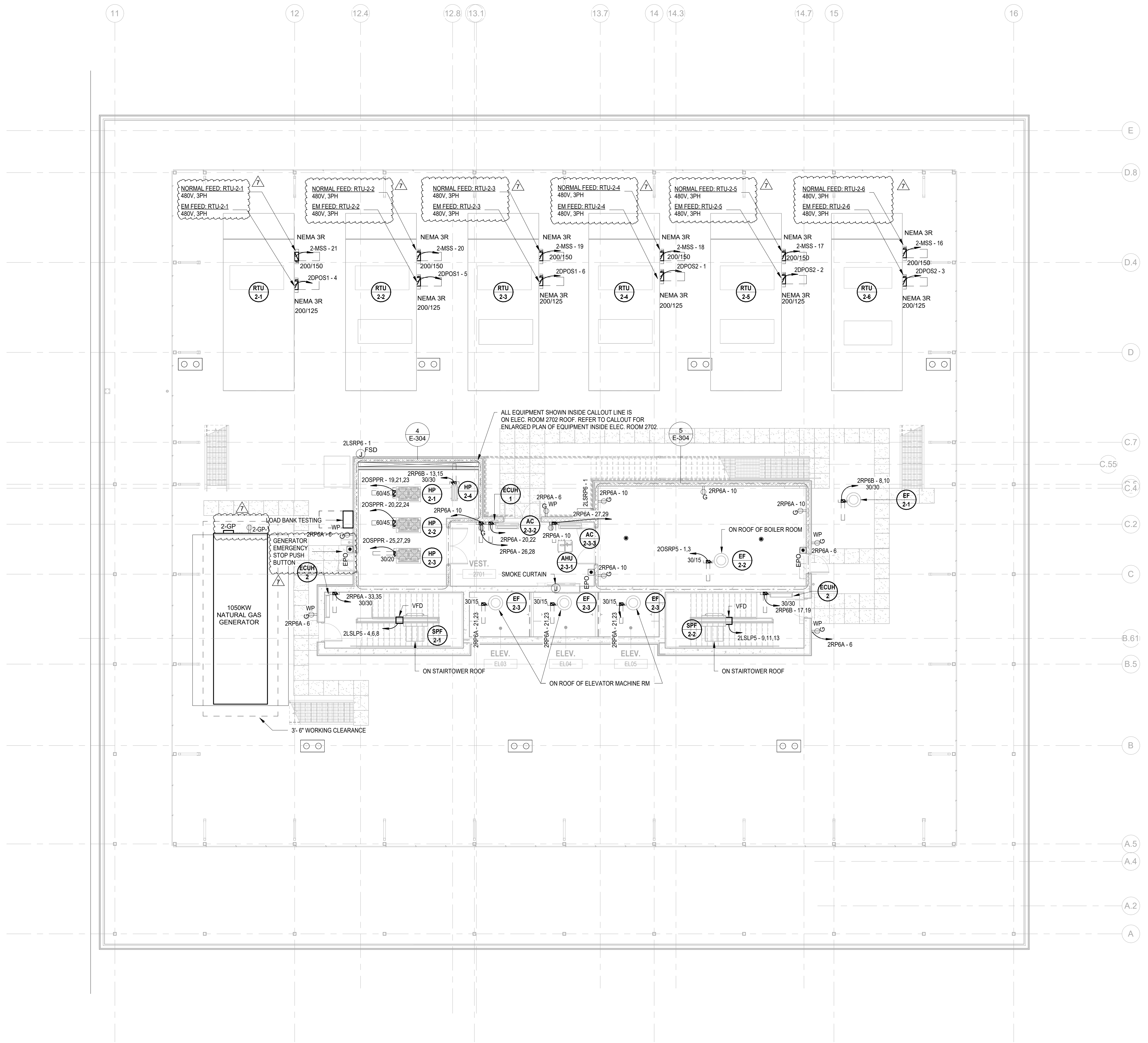
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Sheet No: E-117

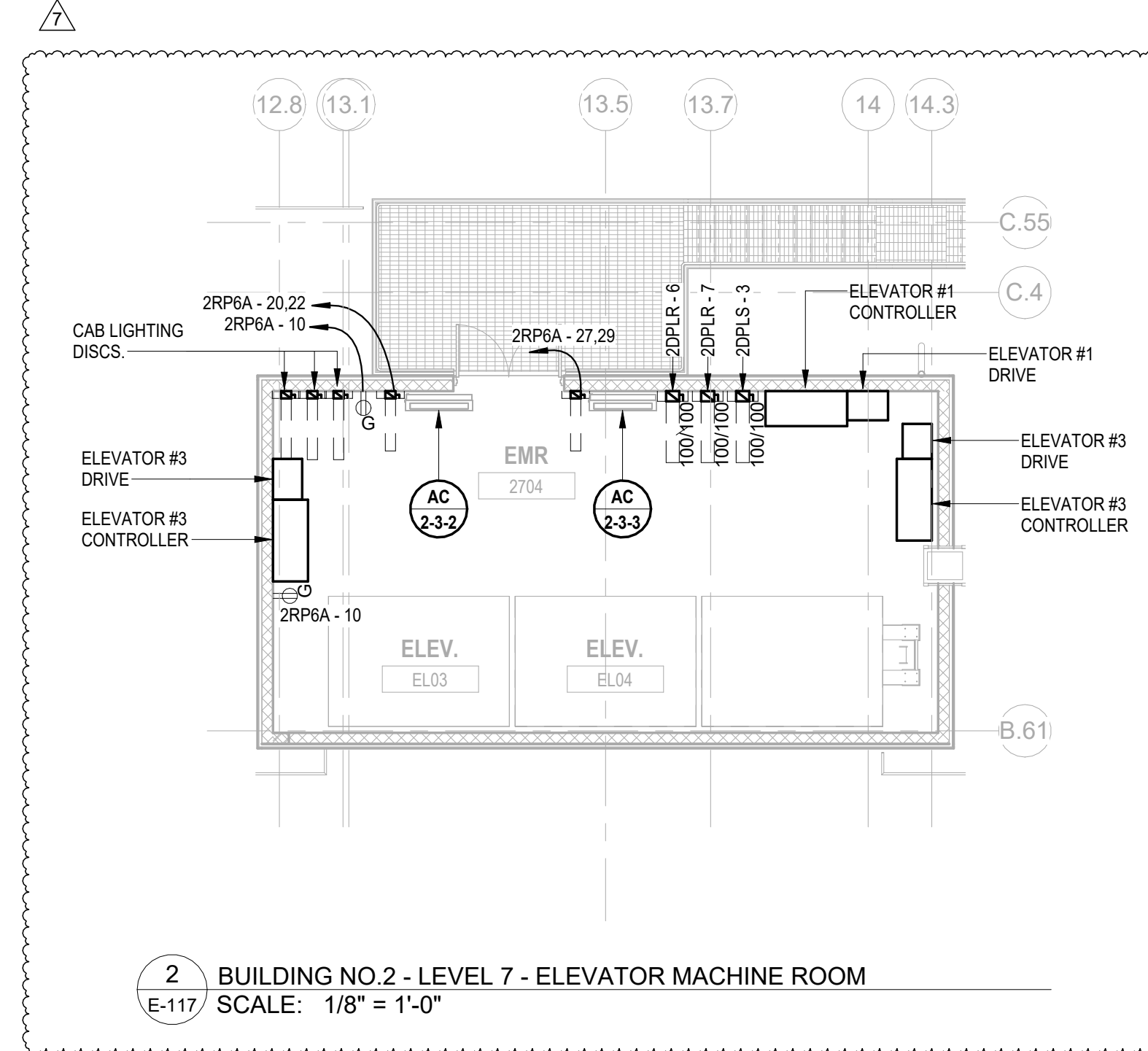
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- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
2. REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
3. CONTRACTOR SHALL REFER TO AUDIO VISUAL DRAWINGS BY UNIFIED TECHNOLOGIES CORP. FOR ADDITIONAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE E.C. THIS INCLUDES, BUT IS NOT LIMITED TO, LOW VOLTAGE JUNCTION BOXES, LOW VOLTAGE CONDUITS, DATA CONDUIT, POWER CONDUITS, ETC.
4. CONTRACTOR SHALL REFER TO SECURITY DRAWINGS BY UNIFIED TECHNOLOGIES CORP. FOR ADDITIONAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE E.C. THIS INCLUDES, BUT IS NOT LIMITED TO, SECURITY SLEEVES, CONDUITS, ETC.
5. CONTRACTOR SHALL REFER TO TELECOMMUNICATION DRAWINGS BY UNIFIED TECHNOLOGIES CORP. FOR ADDITIONAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE E.C. THIS INCLUDES, BUT IS NOT LIMITED TO, LOW VOLTAGE JUNCTION BOXES, LOW VOLTAGE CONDUITS, DATA CONDUITS, ETC.
6. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR BOXES WHERE INDICATED ON DRAWINGS, SIZE AS REQUIRED TO ACCOMMODATE ALL POWER, AV, DATA CONNECTIONS, ETC.



1 BUILDING NO.2 - ROOF - ELECTRICAL POWER PLAN E-117 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

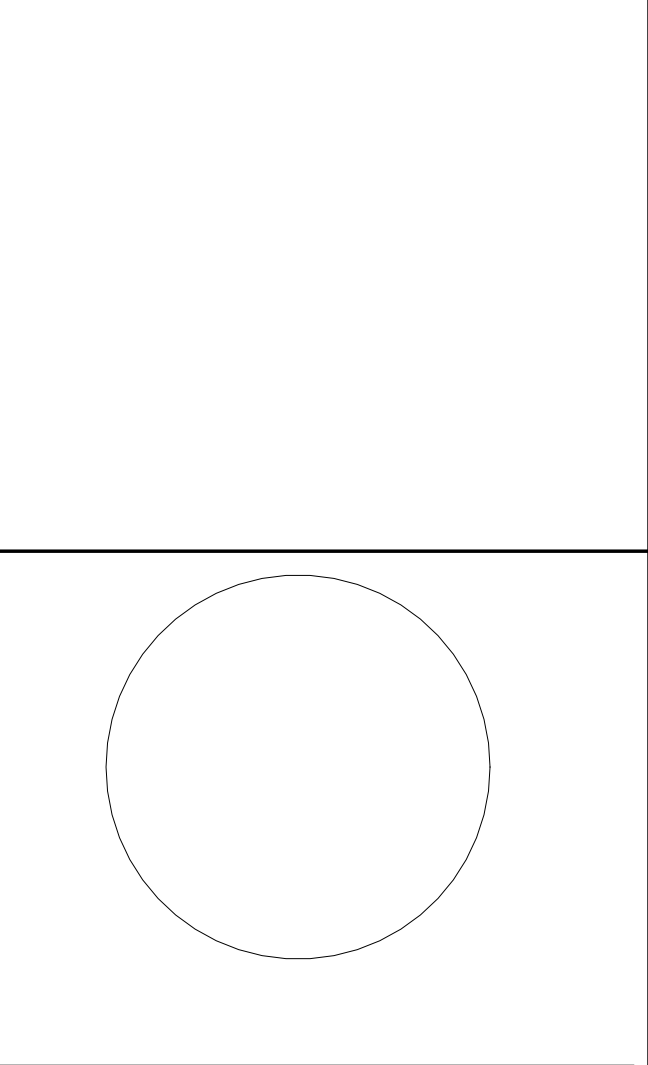


2 BUILDING NO.2 - LEVEL 7 - ELEVATOR MACHINE ROOM E-117 SCALE: 1/8" = 1'-0"

- GENERAL LIGHTING NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
 - REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
 - E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
 - INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS.
 - ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 - ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED.
 - E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

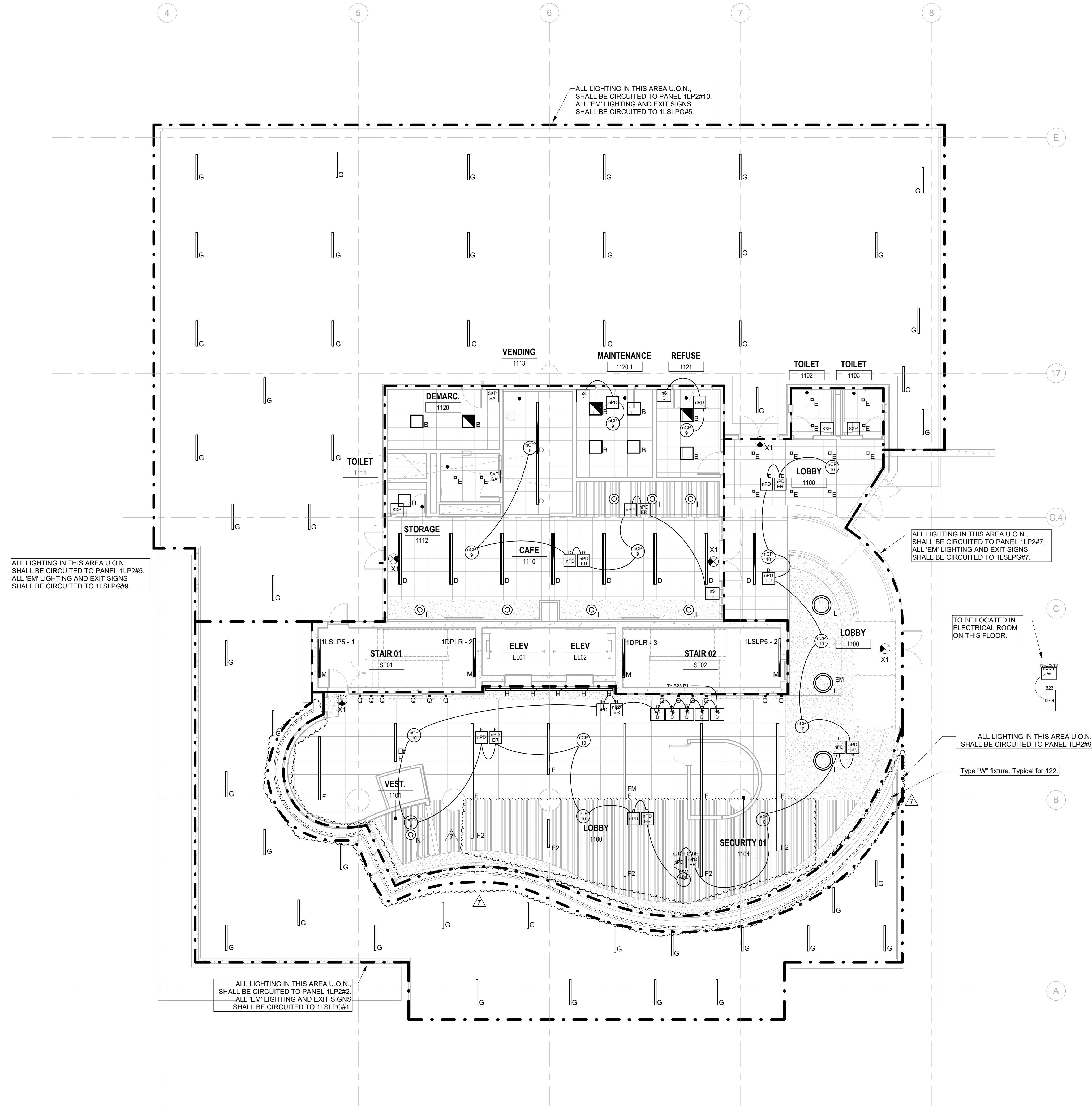
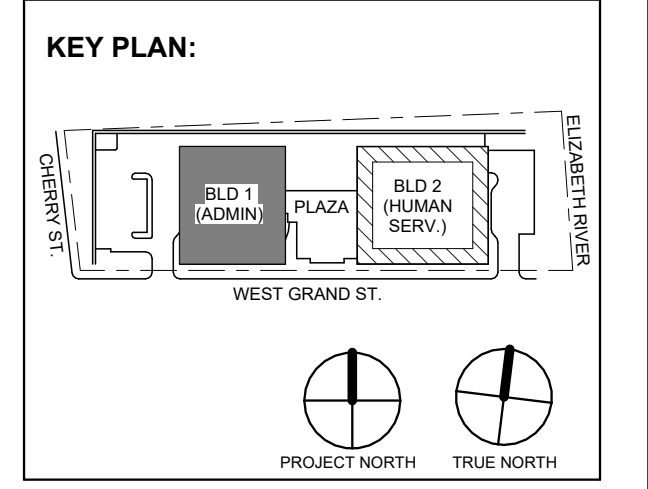
- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:**
- MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS.
 - TYPES OF LIGHTING CONTROLS BY AREA:
 - COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS:
 - THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE.
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL, ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
 - WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

- MEETING ROOMS AND CONFERENCE ROOMS:**
- CEILING MOUNTED VACANCY SENSORS SHALL PROVIDE THE BASIC LIGHTING CONTROL IN THESE AREAS.
 - A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "ON" AND "OFF".
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE WINDOWS WHERE WINDOWS ARE PRESENT. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS):
 - PROVIDE WIRELESS WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSORS.
 - A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "OFF".
 - OFFICE:
 - PROVIDE OCCUPANCY/VACANCY SENSOR.
 - PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.
 - JANITOR CLOSETS AND OTHER SMALL CLOSETS:
 - PROVIDE WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED VACANCY/OCCUPANCY SENSOR.
 - EXTERIOR BUILDING MOUNTED LIGHTING:
 - THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PROTOCOL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.
 - SITE LIGHTING:
 - THE LIGHTING ZONE SHALL BE CONTROLLED BY PROTOCOL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.



JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER License No. 36366

DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: S.G.S. REVIEWED BY: J.C.M. PROJECT No.: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



ALL LIGHTING IN THIS AREA U.O.N. SHALL BE CIRCUITED TO PANEL 1LP2#5. ALL 'EM' LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED TO 1LSLP#9.

ALL LIGHTING IN THIS AREA U.O.N. SHALL BE CIRCUITED TO PANEL 1LP2#10. ALL 'EM' LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED TO 1LSLP#5.

ALL LIGHTING IN THIS AREA U.O.N. SHALL BE CIRCUITED TO PANEL 1LP2#7. ALL 'EM' LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED TO 1LSLP#7.

TO BE LOCATED IN ELECTRICAL ROOM ON THIS FLOOR.

ALL LIGHTING IN THIS AREA U.O.N. SHALL BE CIRCUITED TO PANEL 1LP2#9.

Type "W" fixture. Typical for 122.

ALL LIGHTING IN THIS AREA U.O.N. SHALL BE CIRCUITED TO PANEL 1LP2#2. ALL 'EM' LIGHTING AND EXIT SIGNS SHALL BE CIRCUITED TO 1LSLP#1.

1 BUILDING NO. 1 - LEVEL 1 - ELECTRICAL LIGHTING PLAN E-202 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

No.	Date	Description
7	1/12/2024	Addendum No. 07
1	12/01/2023	Addendum No. 01
	11/08/2023	For Public Bid

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Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPK Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 1 - ELECTRICAL LIGHTING PLAN

Sheet No: E-202

GENERAL LIGHTING NOTES: 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRICAL CODE. 2. REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES. 3. E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES. 4. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS. 5. ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. 6. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED. 7. E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

LIGHTING CONTROLS NOTES: THE GOALS ARE TO: MEET THE LOCALLY ADOPTED ENERGY CODE. INTERNATIONAL ENERGY CODE. REQUIREMENTS. TYPES OF LIGHTING CONTROLS BY AREA: COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS: THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE. DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION. OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON". WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

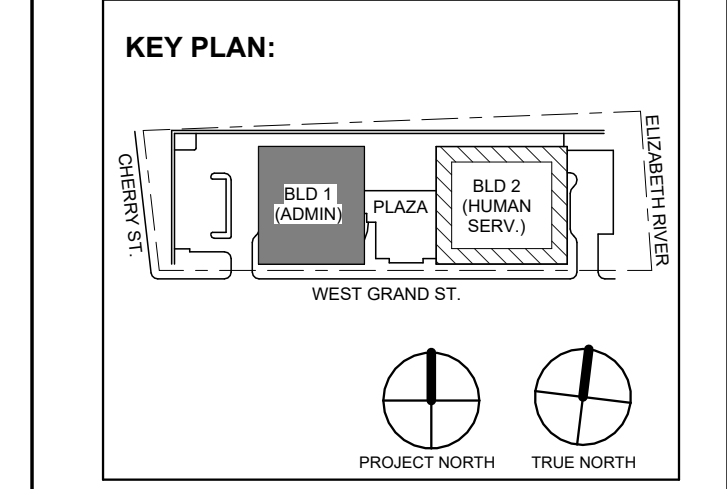
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ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS): PROVIDE WIRELESS WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSORS. A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "OFF". OFFICE: PROVIDE OCCUPANCY/VACANCY SENSOR. PROVIDE DAYLIGHTING CONTROL AS REQUIRED.

JANITOR CLOSETS AND OTHER SMALL CLOSETS: PROVIDE WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED VACANCY/OCCUPANCY SENSOR. EXTERIOR BUILDING MOUNTED LIGHTING: THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER. SITE LIGHTING: THE LIGHTING ZONE SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.

JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER License No. 35888

DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: SGS. REVISIONS BY: J.C.M. PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for 1/12/2024, 12/01/2023, and 11/08/2023.

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Jeffrey D. Venezia, AIA NJ RA #1 00827100



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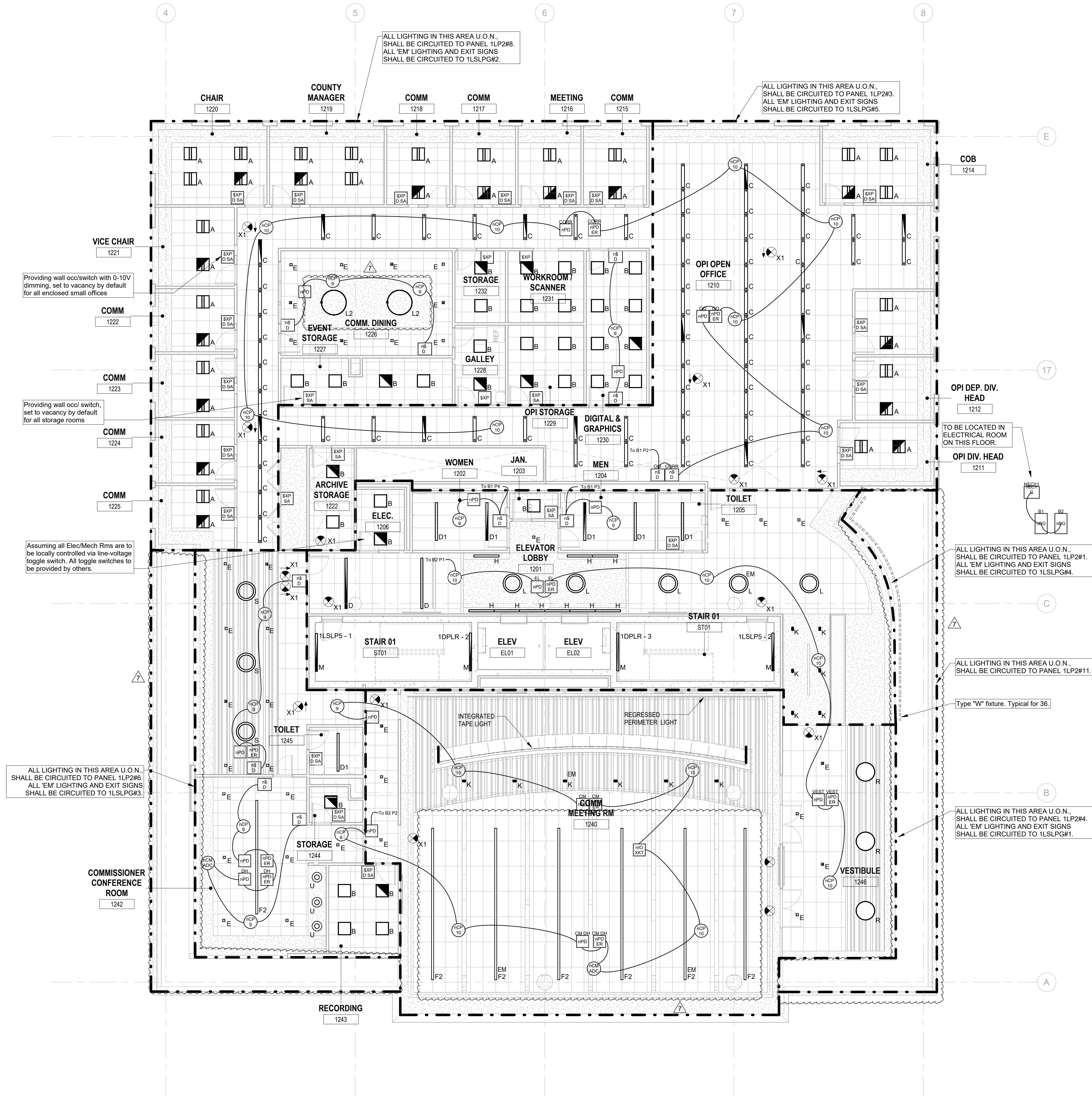
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VP/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 2 - ELECTRICAL LIGHTING PLAN

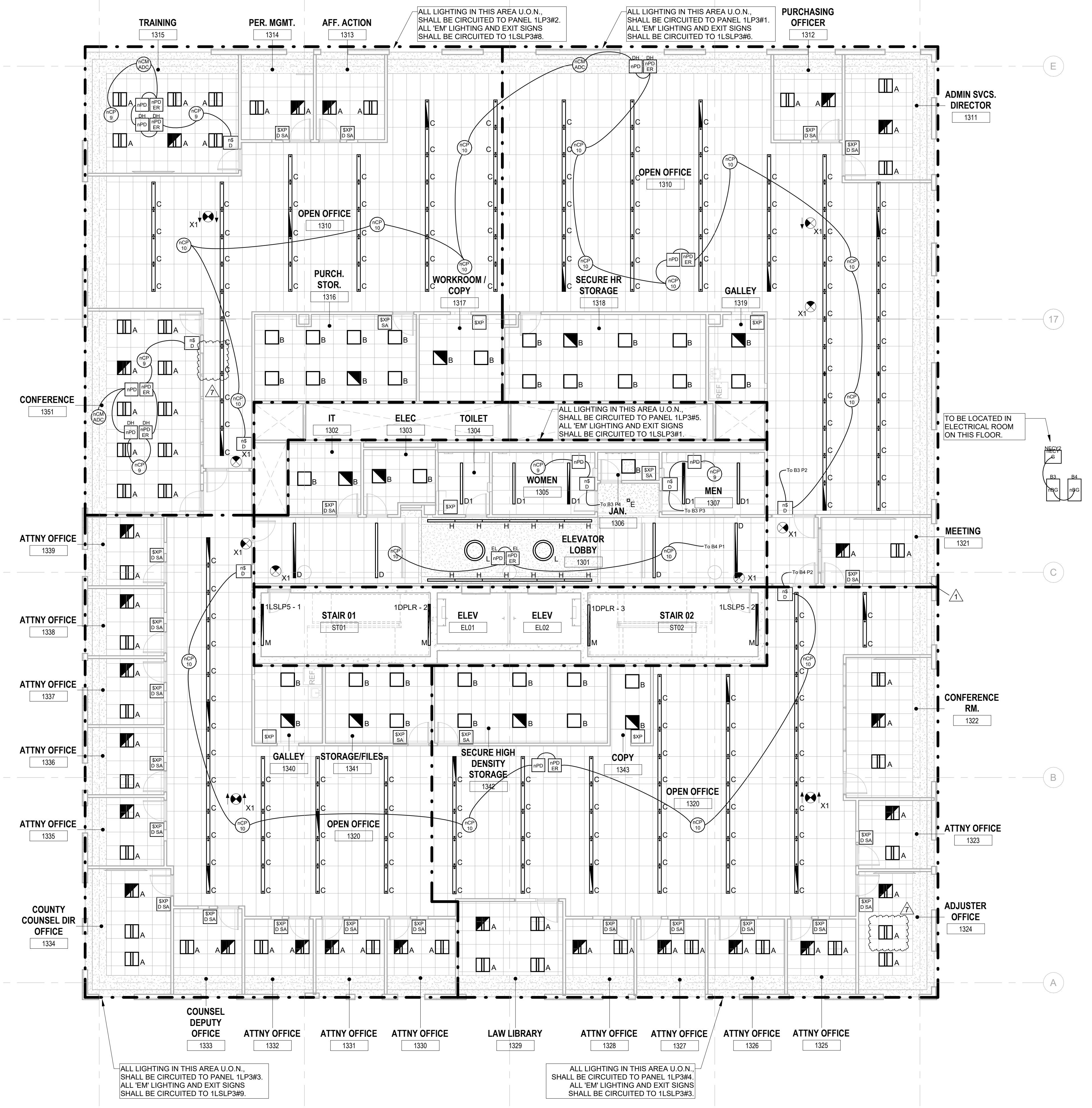
Sheet No: E-203



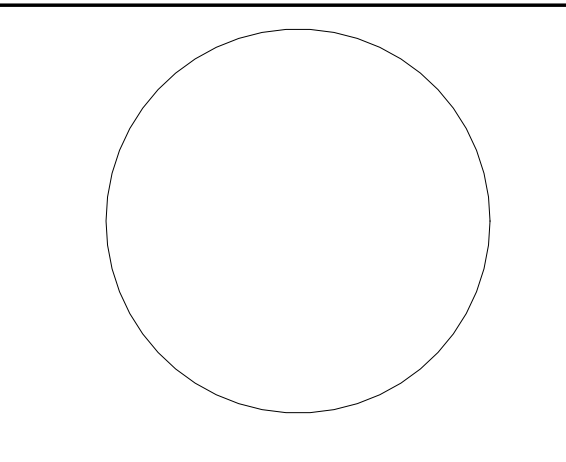
1 BUILDING NO. 1 - LEVEL 2 - ELECTRICAL LIGHTING PLAN E-203 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

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- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:**
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 - TYPES OF LIGHTING CONTROLS BY AREA:
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 - WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.
 - MEETING ROOMS AND CONFERENCE ROOMS:
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1 BUILDING NO. 1 - LEVEL 3 - ELECTRICAL LIGHTING PLAN
E-204 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

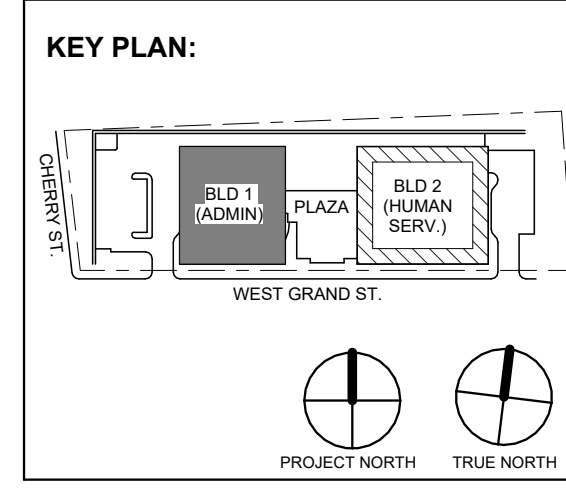


JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER LICENSE NO. 368888888

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DESIGNED BY: JML DRAWN BY: JGS CHECKED BY: JCM REVIEWED BY: JCM

PROJECT NO: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	1/12/2024	Addendum No. 07
1	12/01/2023	Addendum No. 01
	11/08/2023	For Public Bid

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ARCHITECTURE FOR CHANGE
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2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VP/C
Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 3 - ELECTRICAL LIGHTING PLAN

Sheet No:

E-204

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07654 862.207.5900 www.h2m.com

NJ Landscape Architecture Certificate No.: 21MH00010300 NJ Engineering Certificate of Authorization No.: 24GA28019100

GENERAL LIGHTING NOTES:

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LIGHTING CONTROLS NOTES:

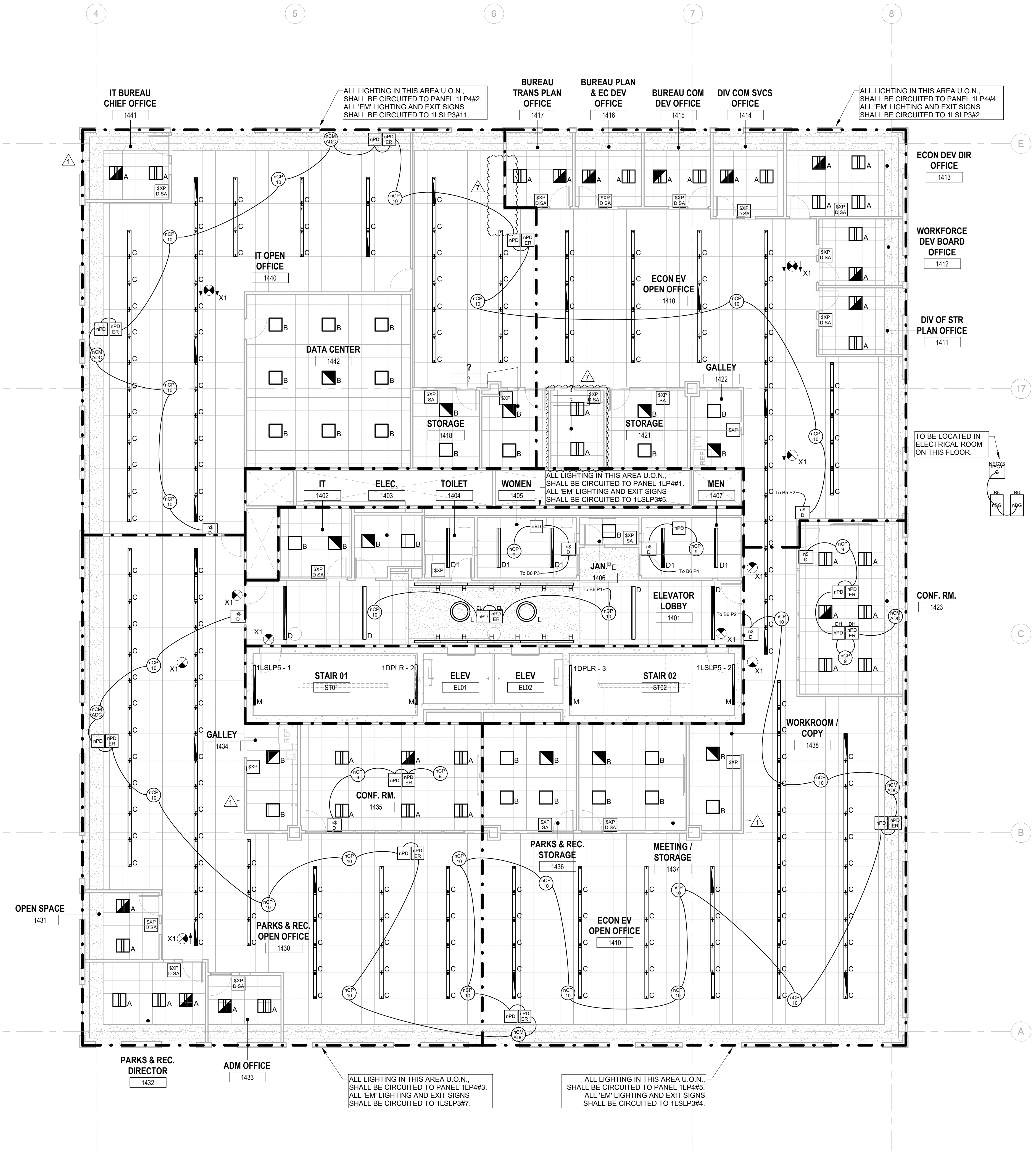
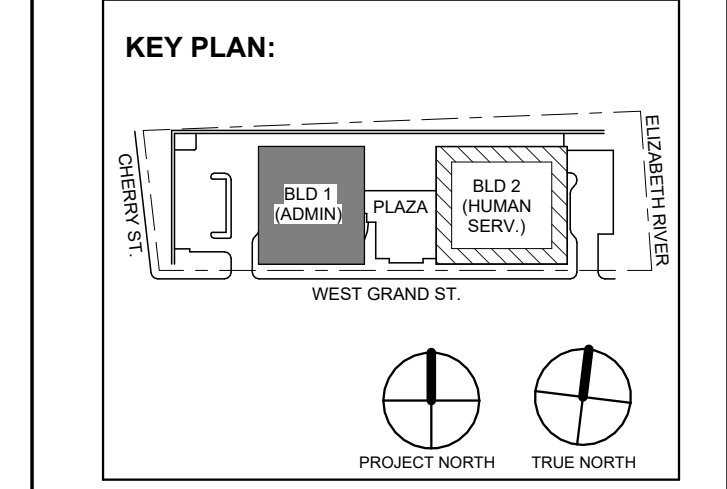
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JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER License No. 36888

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LEGAL. THIS DRAWING IS NOT TO BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT BEARS THE SIGNATURE OF AN ENGINEER.

DESIGNED BY: JUL DRAWN BY: JUL CHECKED BY: JCM REVISIONS BY: JCM

PROJECT No.: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



1 BUILDING NO. 1 - LEVEL 4 - ELECTRICAL LIGHTING PLAN E-205 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

Revisions / Issues table with columns for No., Date, Description, and Revisions / Issues.

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Jeffrey D. Venezia, AIA NJ RA AI 00827100

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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No.: 20.072 Date: 11.08.2023 Drawn By: JBA/VPK Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - ELECTRICAL LIGHTING PLAN

Sheet No.: E-205

GENERAL LIGHTING NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE. 2. REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOLS, LEGEND AND ABBREVIATIONS. 3. E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES. 4. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS. 5. ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. 6. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED. 7. E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

LIGHTING CONTROLS NOTES:

THE GOALS ARE TO:

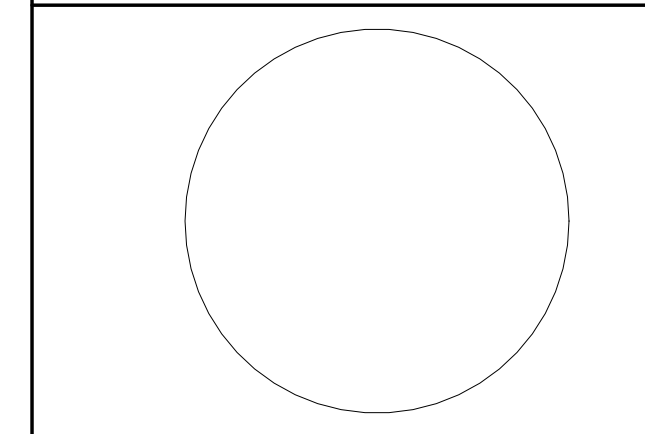
- MEET THE LOCALLY ADOPTED ENERGY CODE AND INTERNATIONAL ENERGY CODE REQUIREMENTS.
• TYPES OF LIGHTING CONTROLS BY AREA:
• COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS.
• THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE.
• DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
• OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL), ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
• WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

MEETING ROOMS AND CONFERENCE ROOMS:

- CEILING MOUNTED VACANCY SENSORS SHALL PROVIDE THE BASIC LIGHTING CONTROL IN THESE AREAS.
• A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "ON" AND "OFF".
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• ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS):
• PROVIDE WIRELESS WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSORS.
• A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "OFF".
• OFFICE:
• PROVIDE OCCUPANCY/VACANCY SENSOR.
• PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.

JANITOR CLOSETS AND OTHER SMALL CLOSETS:

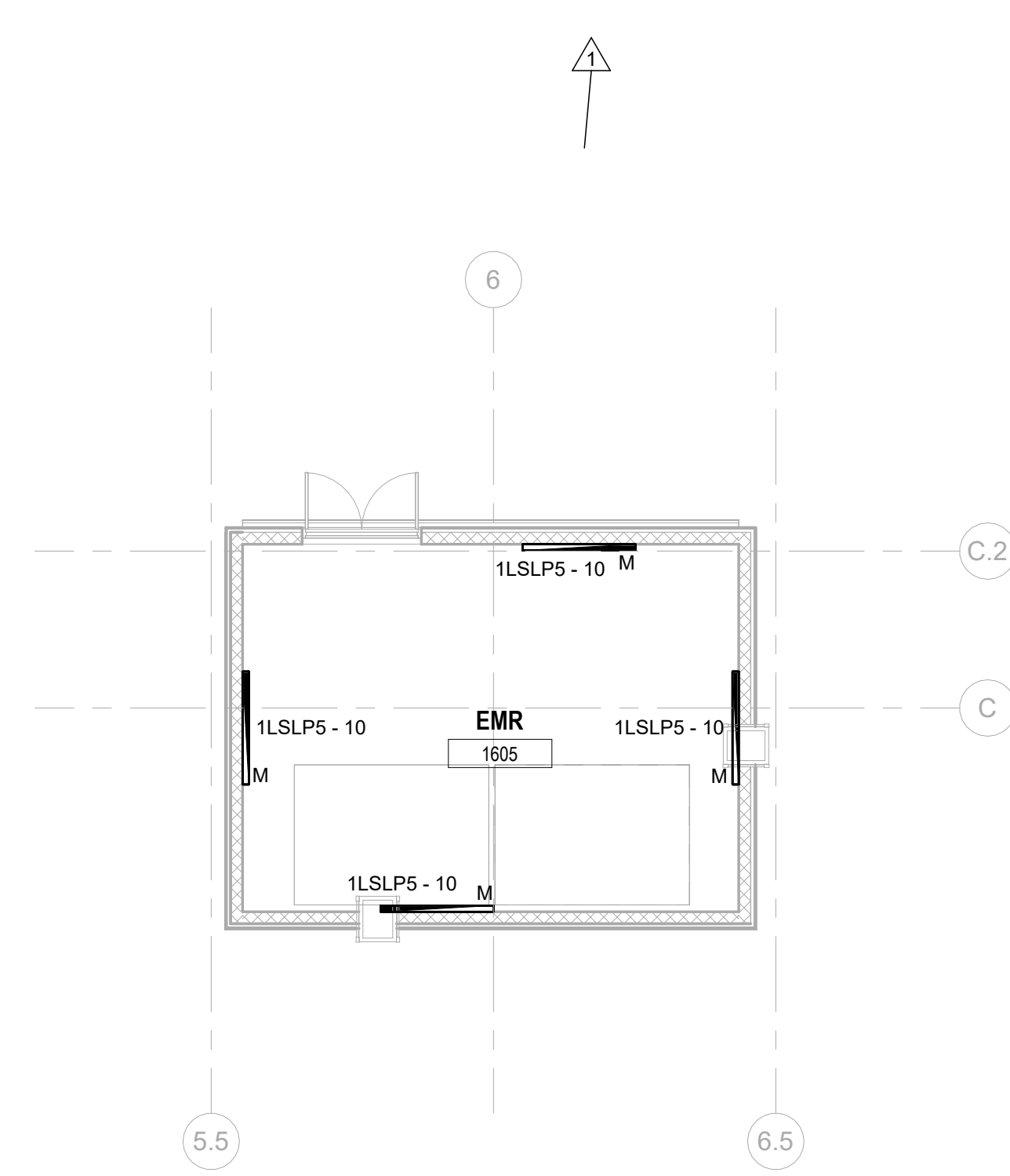
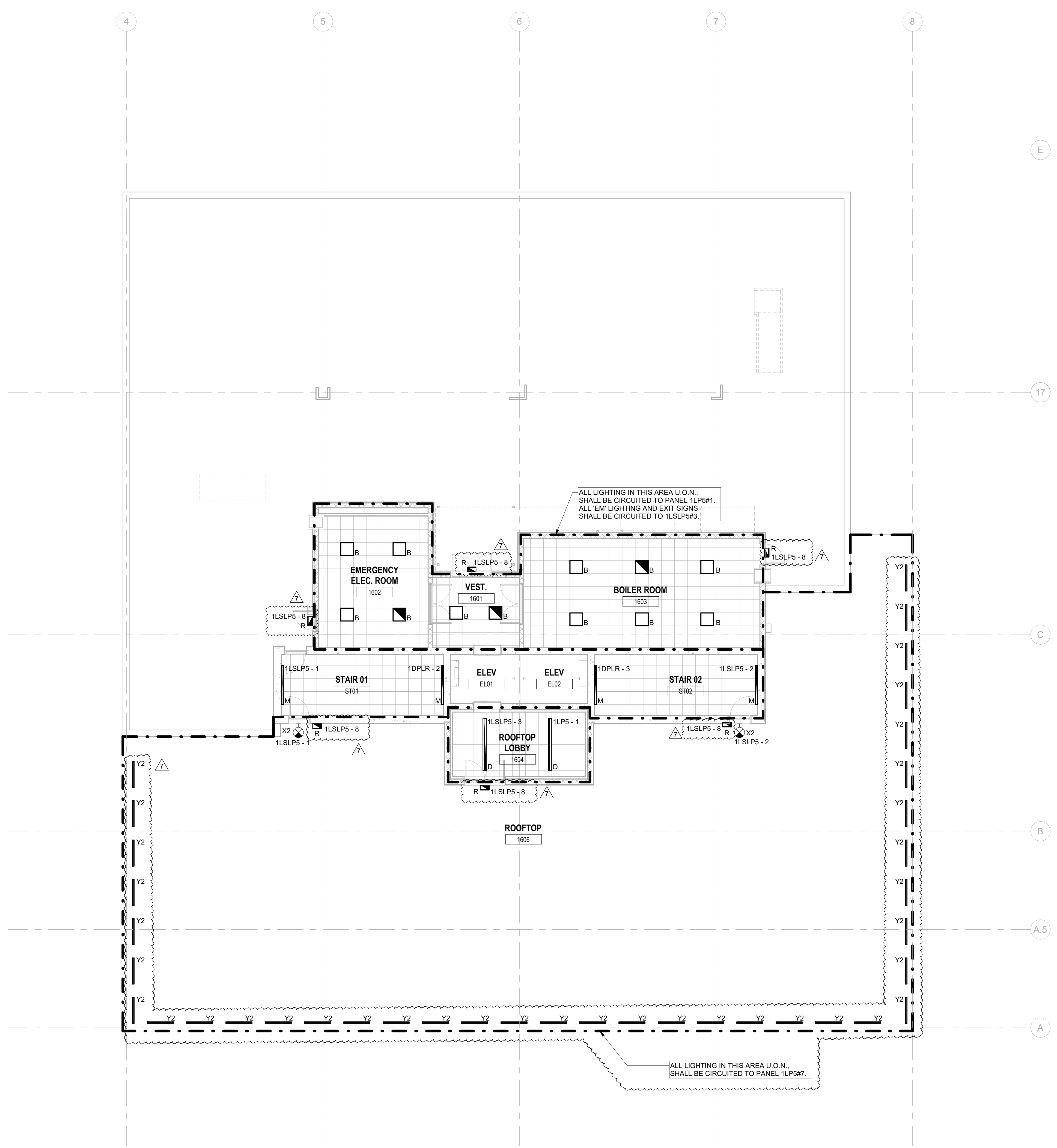
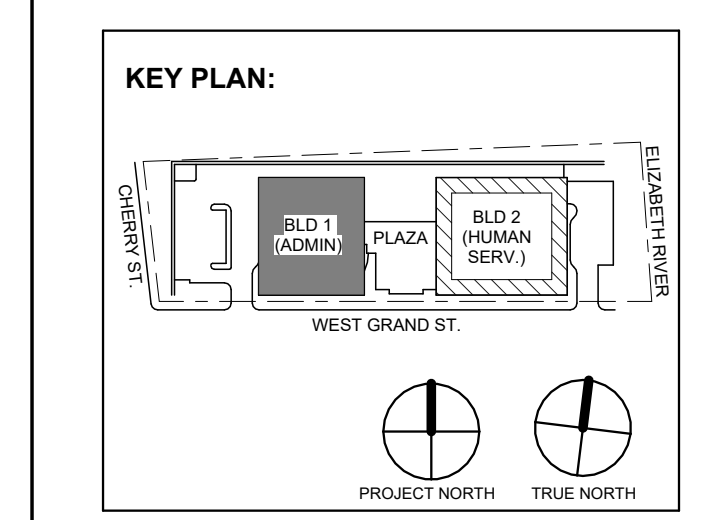
- PROVIDE WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSOR.
• EXTERIOR BUILDING MOUNTED LIGHTING
• THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.
• SITE LIGHTING
• THE LIGHTING ZONE SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.



JOHN CHRIS MORRIS III, P.E.

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Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, PROJECT No., DATE, SCALE.



1 BUILDING NO. 1 - ROOF - ELECTRICAL LIGHTING PLAN SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

2 BUILDING NO. 1 - ELEVATOR MACHINE ROOM - LIGHTING PLAN SCALE: 1/8" = 1'-0"

Table with columns: No., Date, Description, Revisions / Issues.

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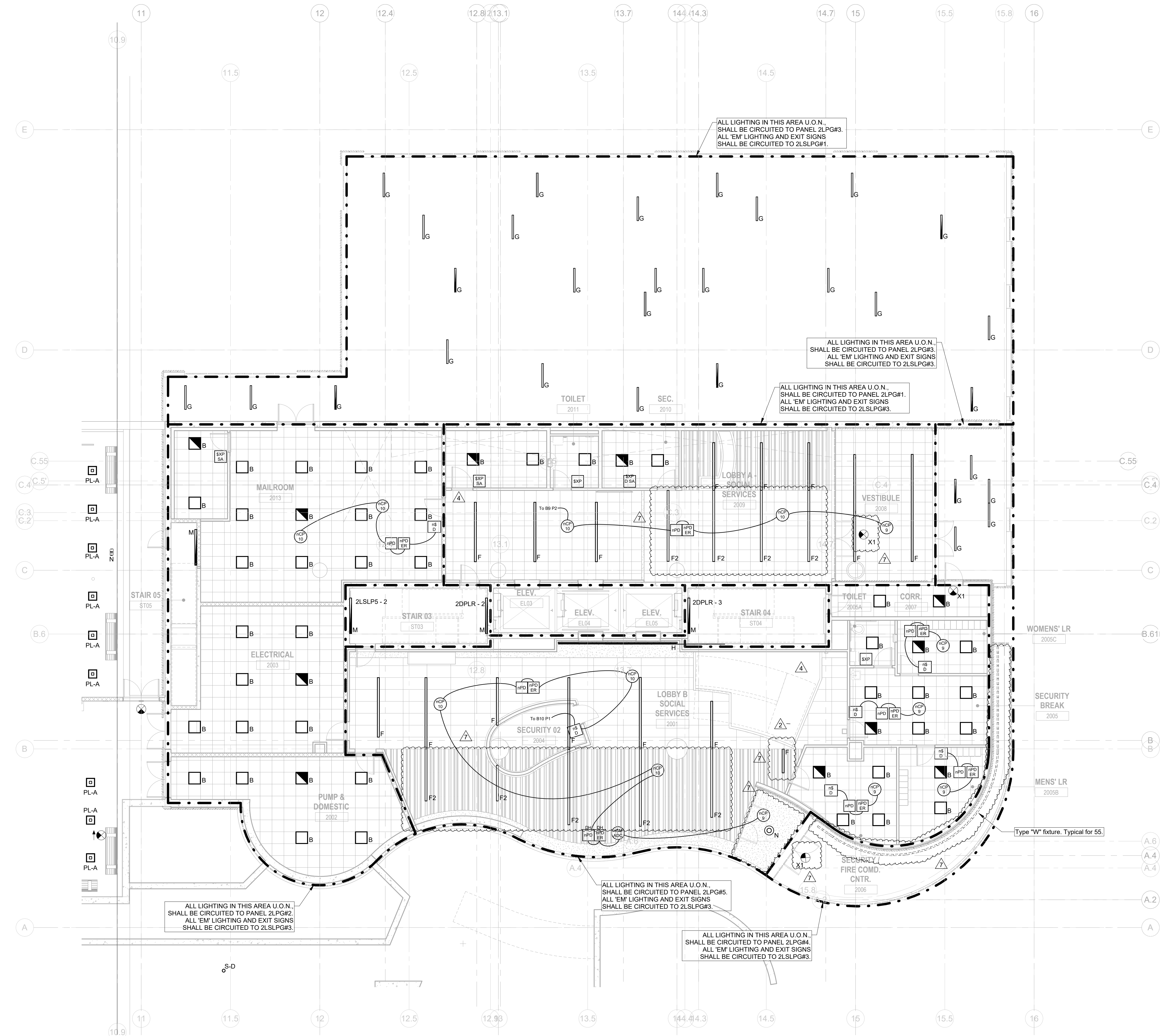
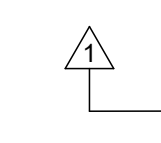
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ROOF - ELECTRICAL LIGHTING PLAN

Sheet No: E-207



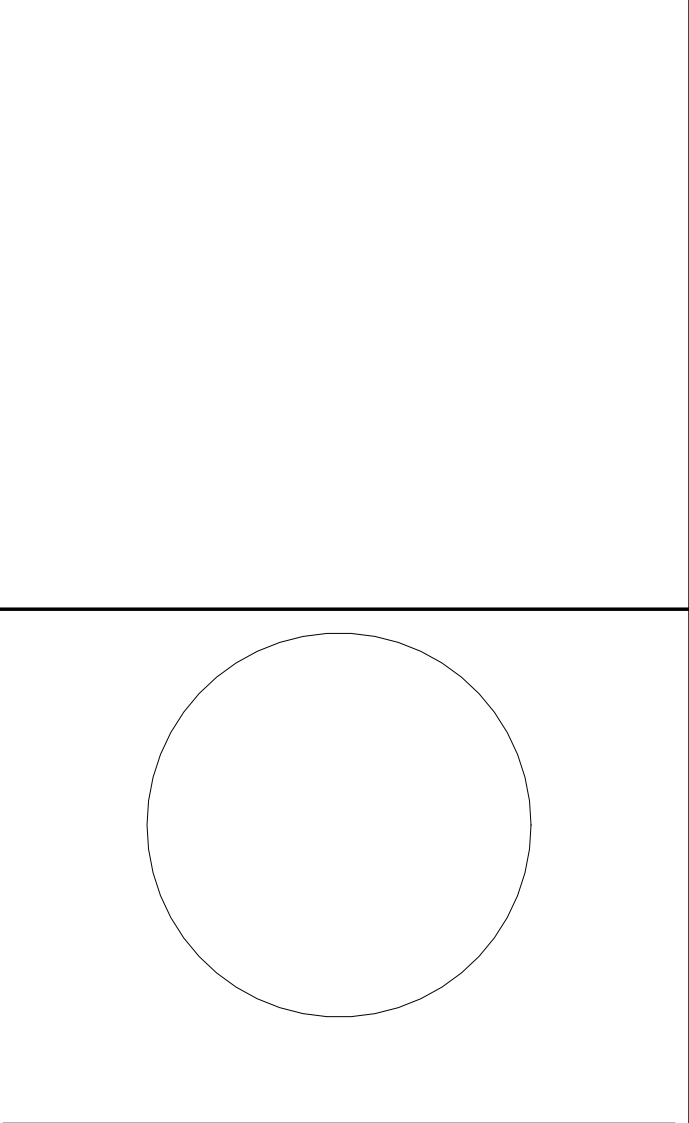
1 BUILDING NO. 2 - LEVEL 0 - ELECTRICAL LIGHTING PLAN
E-210 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

- GENERAL LIGHTING NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
 - REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
 - E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
 - INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS.
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 - E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:**
- MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS.
 - TYPES OF LIGHTING CONTROLS BY AREA:**
 - COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS:
 - THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE.
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
 - THE WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

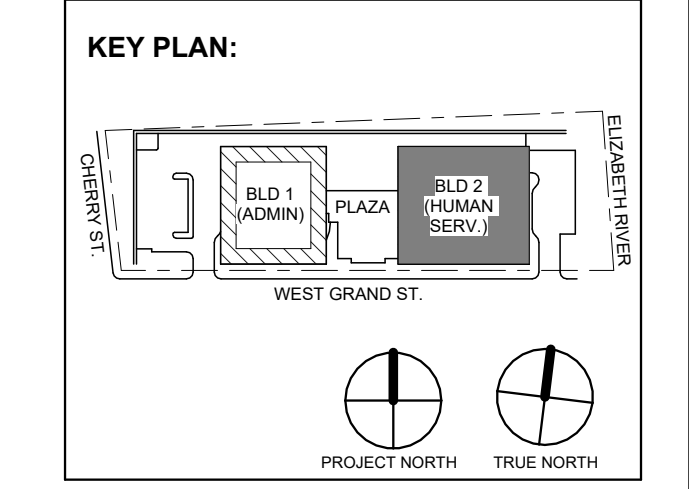
- MEETING ROOMS AND CONFERENCE ROOMS:**
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H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
NJ Landscape Architecture Certificate No.: 21MH00010300
NJ Engineering Certificate of Authorization No.: 246A28019100



DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVIEWED BY: JCM

PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	1.12.2024	Addendum No. 07
4	12.19.2023	Addendum No. 04
2	12.08.2023	Addendum No. 02
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

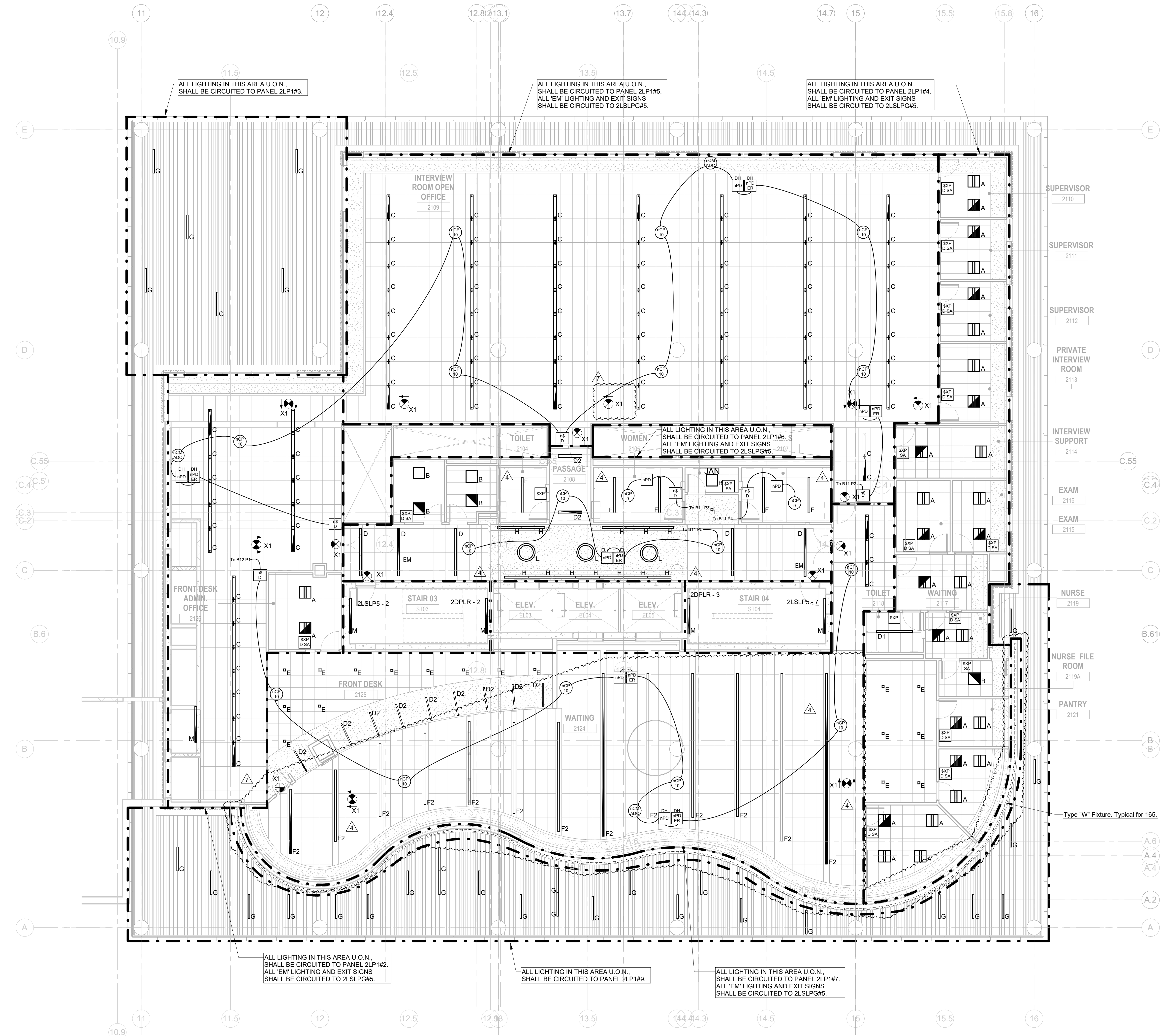
Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

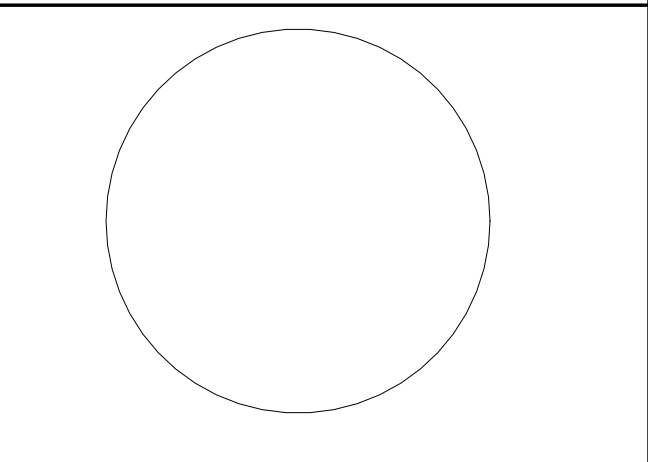
Sheet Name: BUILDING NO. 2 - LEVEL 0 - ELECTRICAL LIGHTING PLAN

Sheet No: E-210

- GENERAL LIGHTING NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
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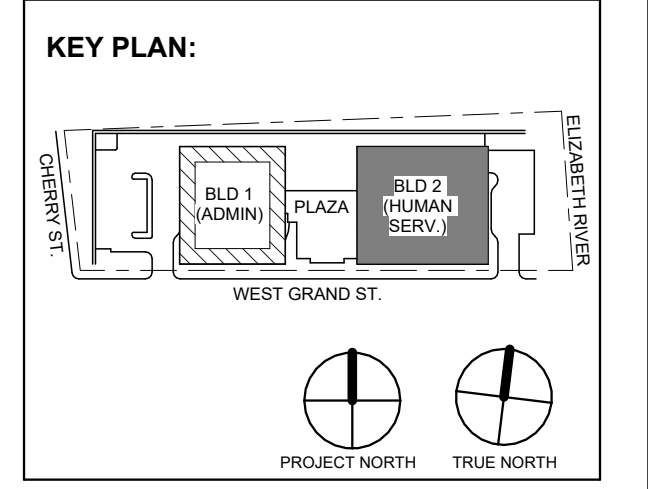


1 BUILDING NO. 2 - LEVEL 1 - ELECTRICAL LIGHTING PLAN
 E-211 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E.
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 DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] REVIEWED BY: [Signature]

PROJECT NO.	DATE	SCALE
24GA2301	11/08/2023	AS SHOWN



No.	Date	Description
7	1.12.2024	Addendum No. 07
4	12.19.2023	Addendum No. 04
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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 NJ RA AI 00827100

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Client:
 UNION COUNTY IMPROVEMENT AUTHORITY

Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 83 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/VP/C
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 1 - ELECTRICAL LIGHTING PLAN

Sheet No:
E-211

- GENERAL LIGHTING NOTES:**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
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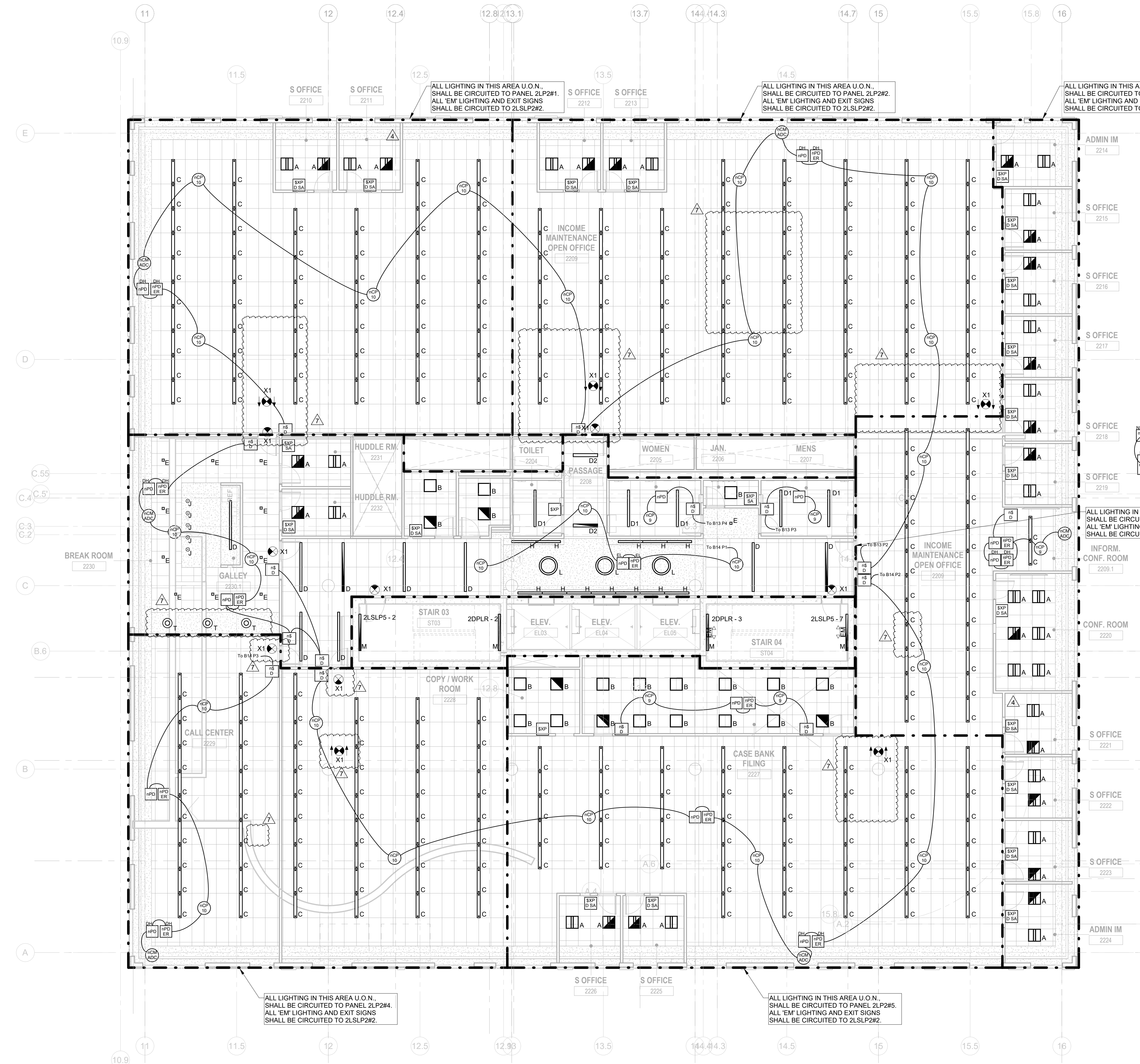
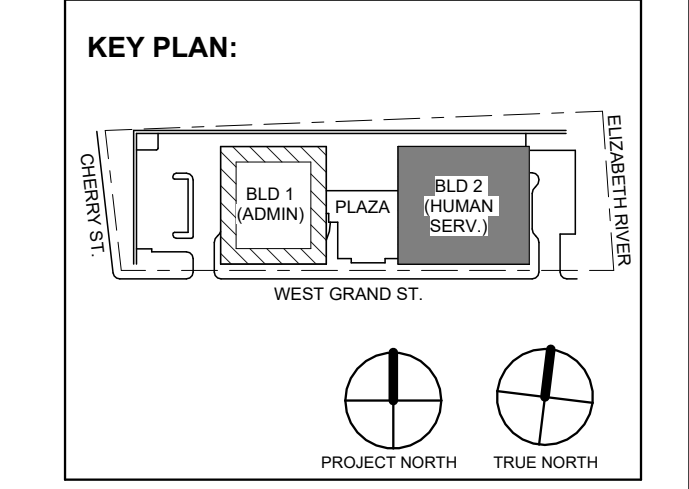
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JOHN CHRIS MORRIS III, P.E.

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DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
NJA	NJA	SGS	JCM
PROJECT No. DIGA2301	DATE: 11/08/2023	SCALE: AS SHOWN	



1 BUILDING NO. 2 - LEVEL 2 - ELECTRICAL LIGHTING PLAN
E-212 SCALE: 1/8" = 1'-0"



No.	Date	Description
7	1.12.2024	Addendum No. 07
4	12.19.2023	Addendum No. 04
1	12.01.2023	Addendum No. 01
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ARCHITECTURE FOR CHANGE
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Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 2 - ELECTRICAL LIGHTING PLAN

Sheet No:
E-212

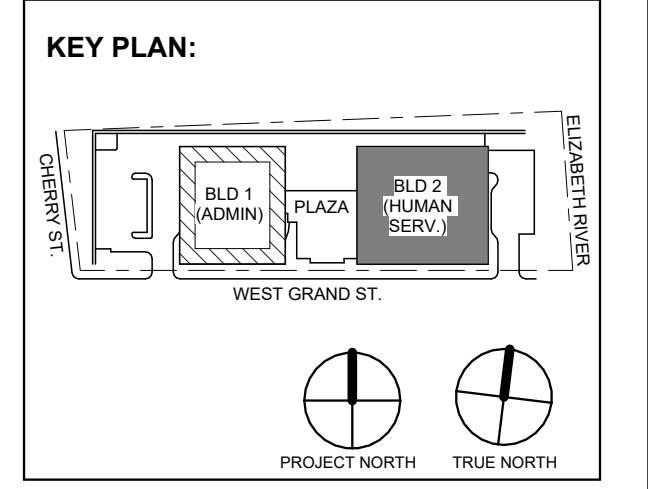
- GENERAL LIGHTING NOTES:**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
 2. REFER TO SHEET E-201 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS.
 3. E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
 4. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS.
 5. ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 6. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED.
 7. E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:
- MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS.
 - TYPES OF LIGHTING CONTROLS BY AREA:
 - COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS:
 - THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE.
 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
 - WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

- MEETING ROOMS AND CONFERENCE ROOMS:**
- CEILING MOUNTED VACANCY SENSORS SHALL PROVIDE THE BASIC LIGHTING CONTROL IN THESE AREAS.
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- ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS):**
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- OFFICE:**
- PROVIDE OCCUPANCY/VACANCY SENSOR.
 - PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.
- JANITOR CLOSETS AND OTHER SMALL CLOSETS:**
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- EXTERIOR BUILDING MOUNTED LIGHTING:**
- THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.
- SITE LIGHTING:**
- THE LIGHTING ZONE SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.

JOHN CHRIS MORRIS III, P.E.

DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
7	1.12.2024	Addendum No. 07
4	12.19.2023	Addendum No. 04
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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Jeffrey D. Venezia, AIA NJ RA #A 00827100

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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

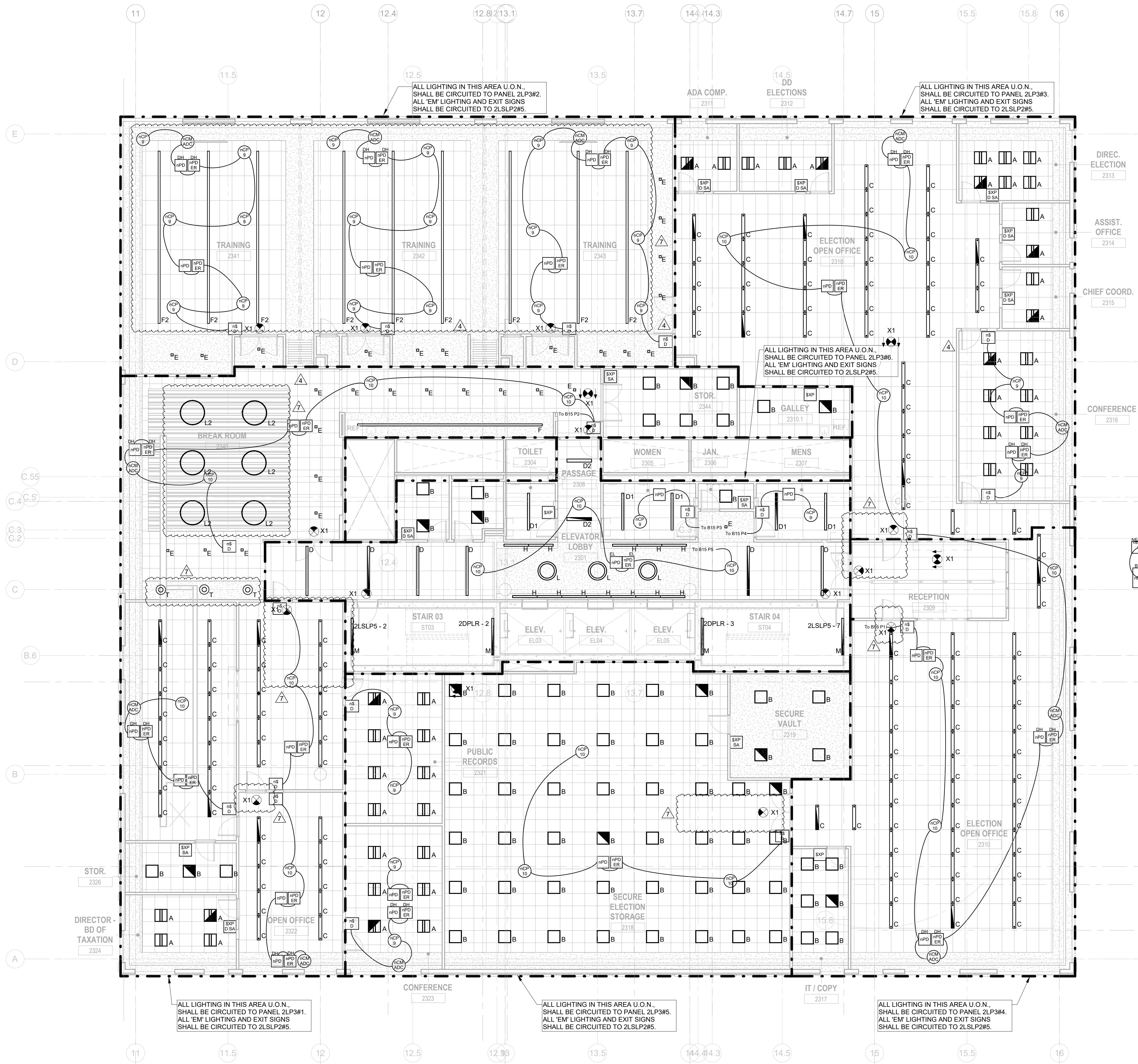
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPK Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 3 - ELECTRICAL LIGHTING PLAN

Sheet No: E-213



1 BUILDING NO. 2 - LEVEL 3 - ELECTRICAL LIGHTING PLAN E-213 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

- GENERAL LIGHTING NOTES:**
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 - E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

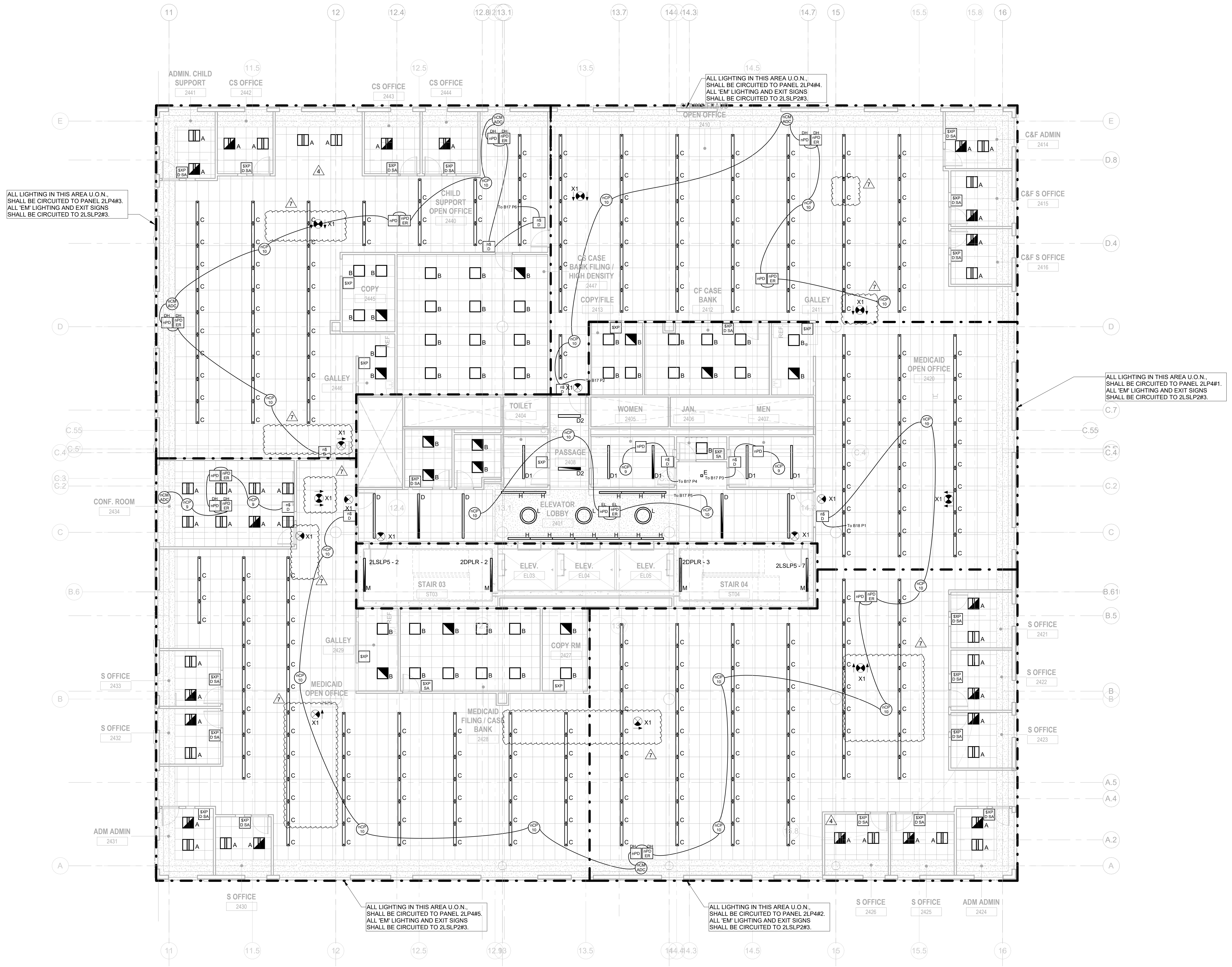
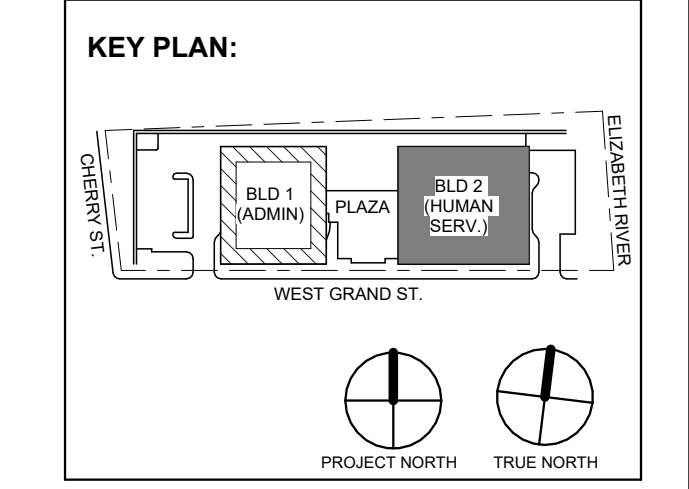
- LIGHTING CONTROLS NOTES:**
- THE GOALS ARE TO:**
- MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS.
 - TYPES OF LIGHTING CONTROLS BY AREA:
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 - DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION.
 - OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON".
 - WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

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 - PROVIDE OCCUPANCY/VACANCY SENSOR.
 - PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.
 - JANITOR CLOSETS AND OTHER SMALL CLOSETS:
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JOHN CHRIS MORRIS III, P.E.

DESIGNED BY	NJA	DATE	11/08/2023	CHECKED BY	SGS	SCALE	AS SHOWN
DRAWN BY	NJA			REVIEWED BY	JCM		

PROJECT No.	DIGA2301
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1 BUILDING NO. 2 - LEVEL 4 - ELECTRICAL LIGHTING PLAN
E-214 SCALE: 1/8" = 1'-0"



No.	Date	Description
7	1.12.2024	Addendum No. 07
4	12.19.2023	Addendum No. 04
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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ARCHITECTURE FOR CHANGE
15 Bannockburn Street • New Brunswick, NJ 08901 • T: 732.249.6342
2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

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Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No.: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 4 - ELECTRICAL LIGHTING PLAN

Sheet No.:
E-214

GENERAL LIGHTING NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
2. REFER TO SHEET E-300 FOR PROJECT GENERAL NOTES, SYMBOLS, LEGEND AND ABBREVIATIONS.
3. E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
4. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF: MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS.
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7. E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

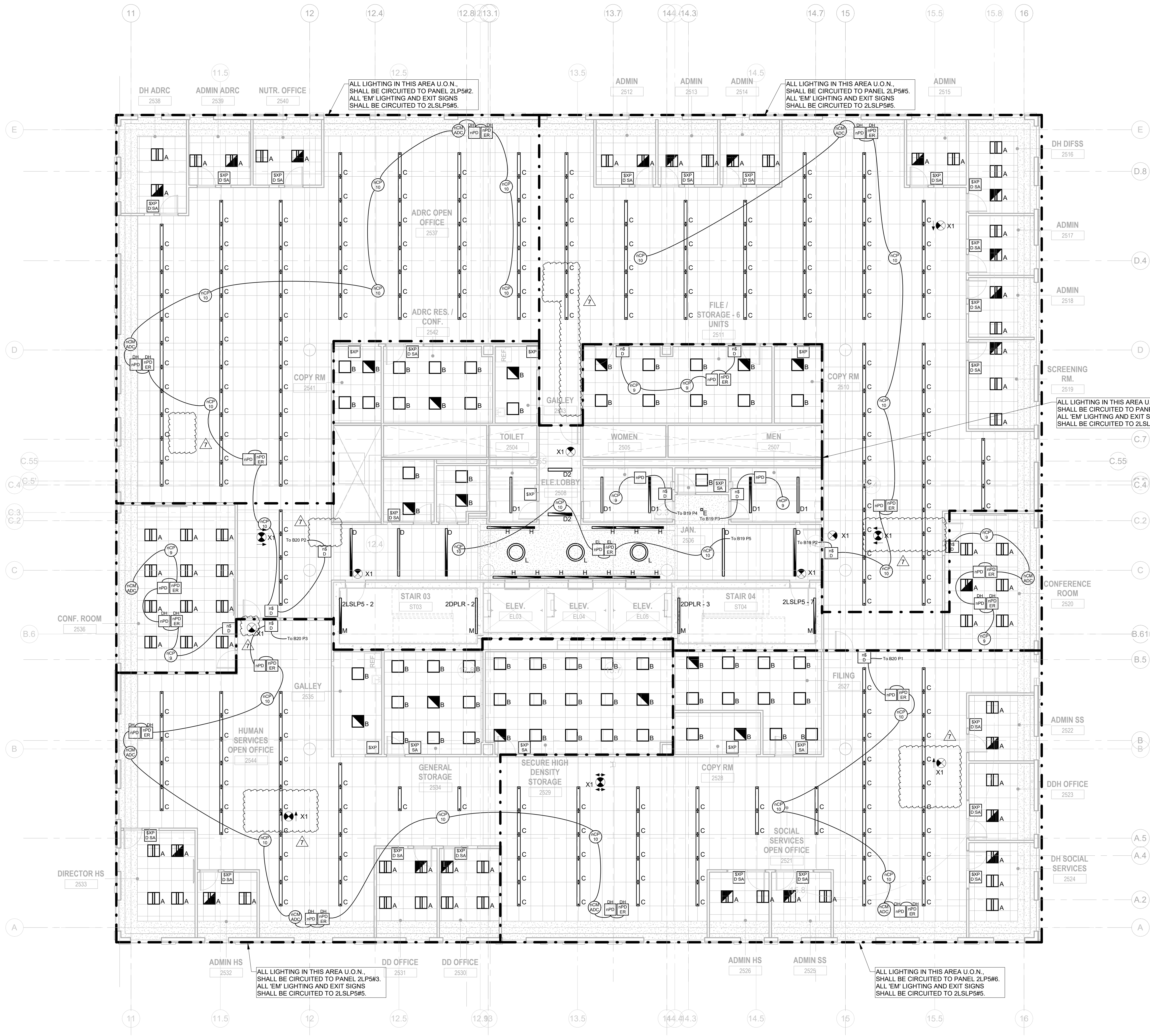
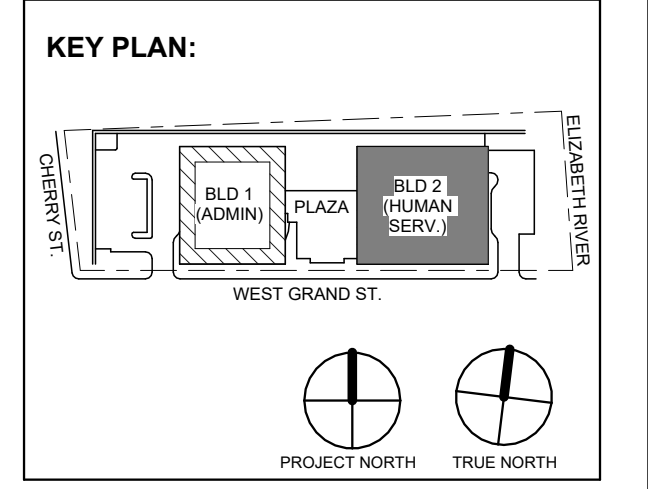
LIGHTING CONTROLS NOTES:

- THE GOALS ARE TO:
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JOHN CHRIS MORRIS III, P.E.

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DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
NJA	NJA	SGS	JCM
PROJECT NO.	DATE	SCALE	
DIGA2301	11/08/2023	AS SHOWN	



1 BUILDING NO. 2 - LEVEL 5 - ELECTRICAL LIGHTING PLAN
E-215 SCALE: 1/8" = 1'-0"

SCALE BAR: 1/8"=1'-0"

7	1.12.2024	Addendum No. 07
1	12.01.2023	Addendum No. 01
	11.08.2023	For Public Bid
No.	Date	Description
		Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6342
2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3000

Jeffrey D. Venezia, AIA
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Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No.: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 5 - ELECTRICAL LIGHTING PLAN

Sheet No.:
E-215

GENERAL LIGHTING NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE.
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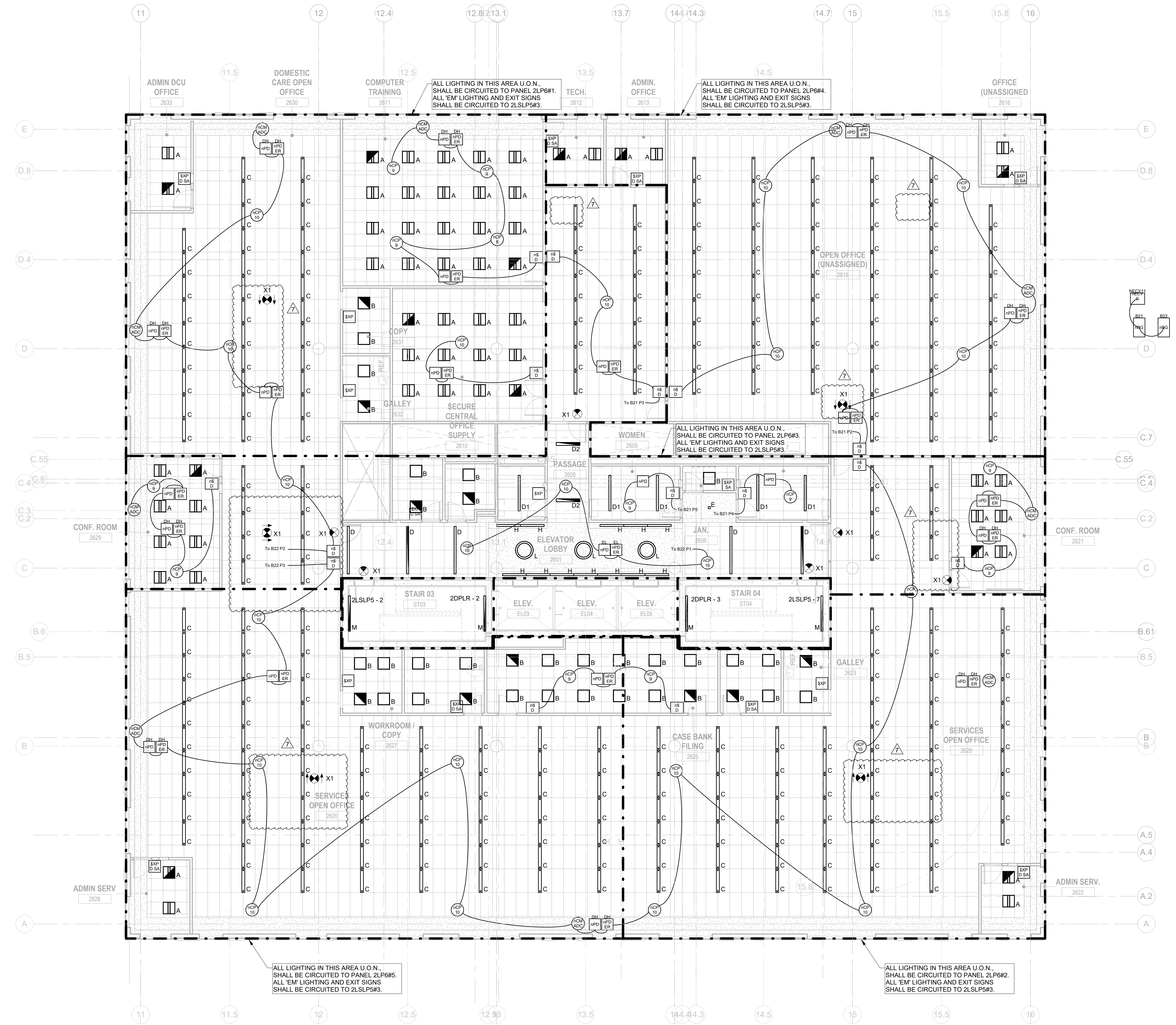
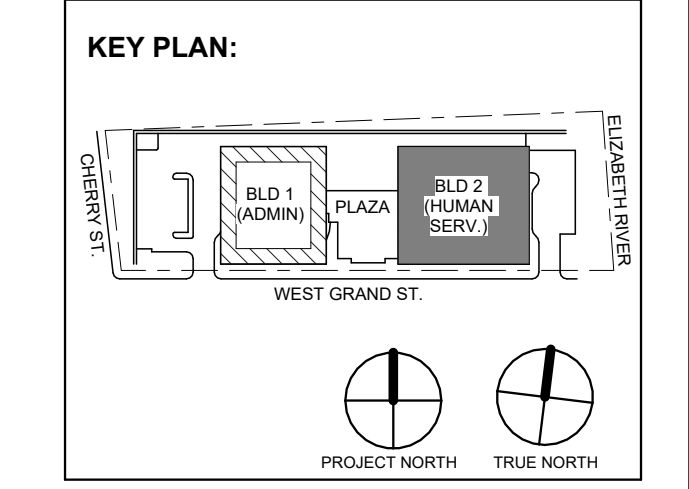
LIGHTING CONTROLS NOTES:

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JOHN CHRIS MORRIS III, P.E.

DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVISIONS BY: JCM

PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



1 BUILDING NO. 2 - LEVEL 6 - ELECTRICAL LIGHTING PLAN E-216 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

7	1.12.2024	Addendum No. 07
1	12.01.2023	Addendum No. 01
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Revisions / Issues		

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Jeffrey D. Venezia, AIA NJ RA AI 00827100

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 6 - ELECTRICAL LIGHTING PLAN

Sheet No: E-216

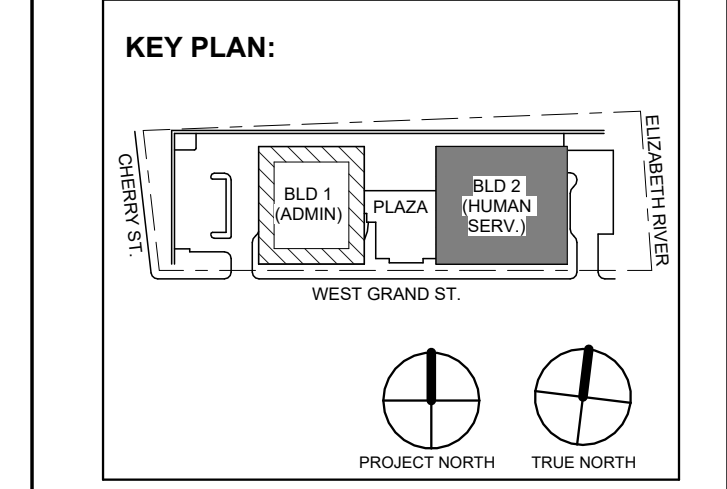


Table with 3 columns: No., Date, Description. Row 1: 7, 1.12.2024, Addendum No. 07. Row 2: 1, 12.01.2023, Addendum No. 01. Row 3: 1, 11.08.2023, For Public Bid.

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Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VP Checked By: JMSH Sheet Name:

BUILDING NO. 2 - ROOF - ELECTRICAL LIGHTING PLAN

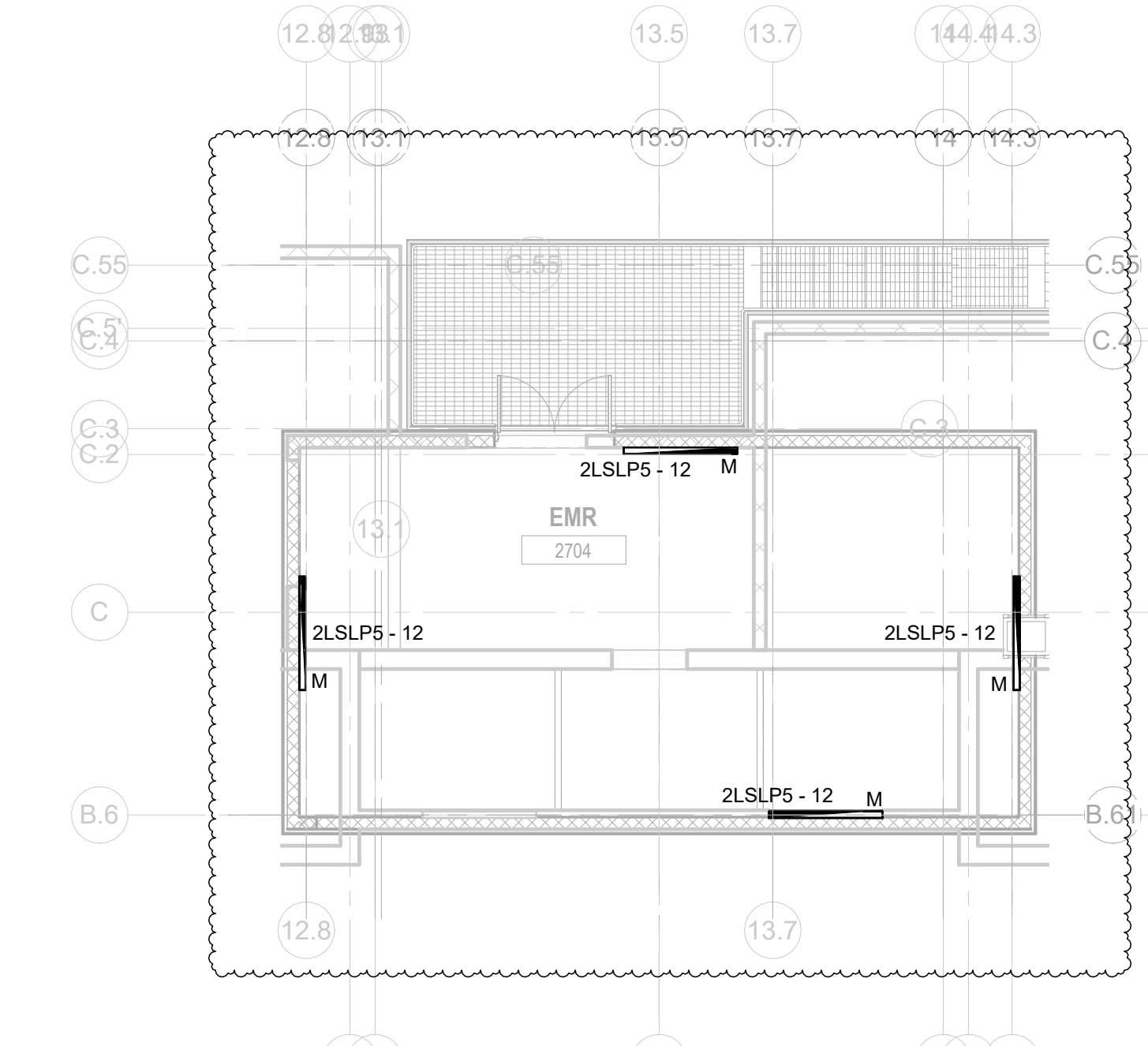
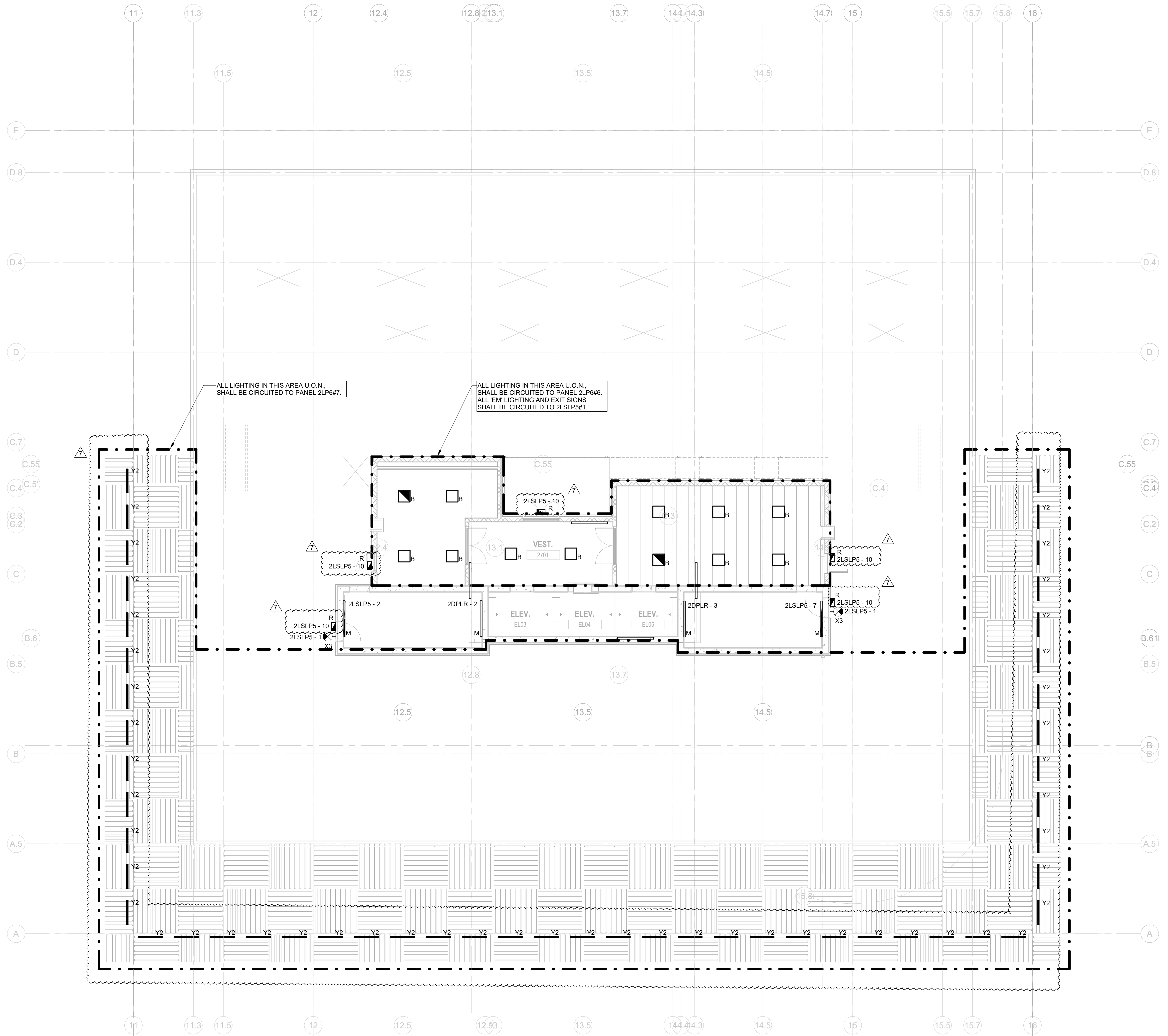
Sheet No: E-217

- GENERAL LIGHTING NOTES: 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF NATIONAL ELECTRIC CODE. 2. REFER TO SHEET E-000 FOR PROJECT GENERAL NOTES, SYMBOL, LEGEND AND ABBREVIATIONS. 3. E.C. SHALL VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES. 4. INSTALLATION OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE FINAL APPROVED LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK, PIPING, CEILING SYSTEMS AND LAYOUTS, CONDUIT SYSTEMS AND STRUCTURAL COMPONENTS. 5. ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. 6. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND PROVIDED WITH ALL NECESSARY MOUNTING/HANGING HARDWARE AND PLASTER FRAMES WHERE REQUIRED. 7. E.C. SHALL ENSURE VOLTAGE DROP DOES NOT EXCEED 3% AT ALL TIMES. WIRE SIZES AND CONDUITS SHALL BE ADJUSTED ACCORDINGLY.

- LIGHTING CONTROLS NOTES: THE GOALS ARE TO: MEET THE LOCALLY ADOPTED ENERGY CODE, INTERNATIONAL ENERGY CODE, REQUIREMENTS. TYPES OF LIGHTING CONTROLS BY AREA: COMMON AREAS, OPEN OFFICE AREAS, BREAK AREAS AND CORRIDORS SHALL BE LOCALLY CONTROLLED. LOCAL CONTROLS IN THESE AREAS SHALL OPERATE AS FOLLOWS: THE LIGHTING SHALL BE CONTROLLED BY TIME OF DAY. CONTRACTOR TO PROGRAM THE ON/OFF TIMES AS SPECIFIED BY THE OWNER. THIS IS THE OVERRIDING CONTROL OF THE LIGHTING ZONE. DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE ADJACENT WINDOWS. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION. OCCUPANCY SENSORS SHALL BE PROVIDED THROUGHOUT THESE AREAS SO THAT AFTER HOURS (I.E. AFTER THE "OFF" TIME OF THE TIME OF DAY CONTROL) ANY EMPLOYEES WORKING LATE WILL NOT BE LEFT IN THE DARK. THE OCCUPANCY SENSORS SHALL OVERRIDE THE ZONE CONTROL TO "ON". WALL SWITCHES SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO MANUALLY OVERRIDE THE ZONE CONTROL.

- MEETING ROOMS AND CONFERENCE ROOMS: CEILING MOUNTED VACANCY SENSORS SHALL PROVIDE THE BASIC LIGHTING CONTROL IN THESE AREAS. A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "ON" AND "OFF". DAYLIGHTING CONTROLS SHALL BE PROVIDED TO AUTOMATICALLY DIM THE LIGHTING BASED ON THE AMOUNT OF LIGHT ENTERING THE WINDOWS WHERE WINDOWS ARE PRESENT. ONLY LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING AREAS SHALL BE DIMMED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE DAYLIGHTING CONTROLS TO THE OWNER'S SATISFACTION. ENCLOSED OFFICES (WITH NO EXTERIOR WINDOWS): PROVIDE WIRELESS WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED OCCUPANCY SENSORS. A WALL SWITCH SHALL BE PROVIDED TO ALLOW THE OCCUPANT TO OVERRIDE THE AUTOMATIC CONTROL TO "OFF". OFFICE: PROVIDE OCCUPANCY/VACANCY SENSOR. PROVIDE DAYLIGHTING CONTROL, AS REQUIRED.

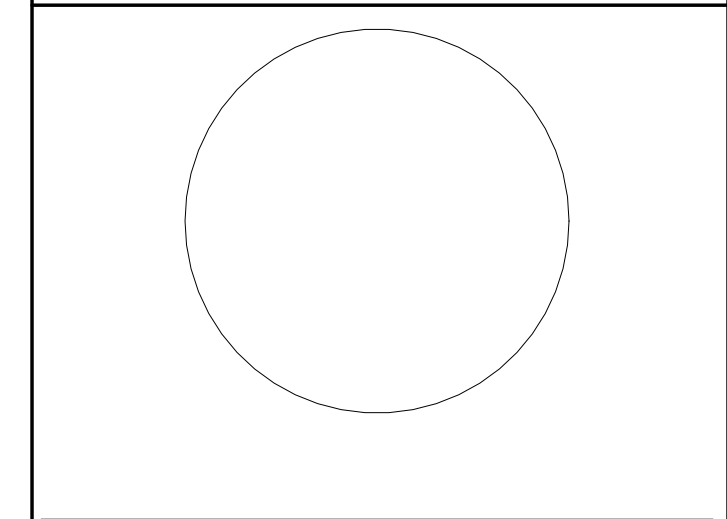
- JANITOR CLOSETS AND OTHER SMALL CLOSETS: PROVIDE WALL SWITCH, CEILING MOUNTED POWER PACK AND CEILING MOUNTED VACANCY/OCCUPANCY SENSOR. EXTERIOR BUILDING MOUNTED LIGHTING: THE EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER. SITE LIGHTING: THE LIGHTING ZONE SHALL BE CONTROLLED BY PHOTOCELL "ON" AND TIME OF DAY "OFF" (I.E. ON AT DUSK AND OFF AT A PRESET TIME). CONTRACTOR TO PROGRAM THE CONTROLS AS SPECIFIED BY THE OWNER.



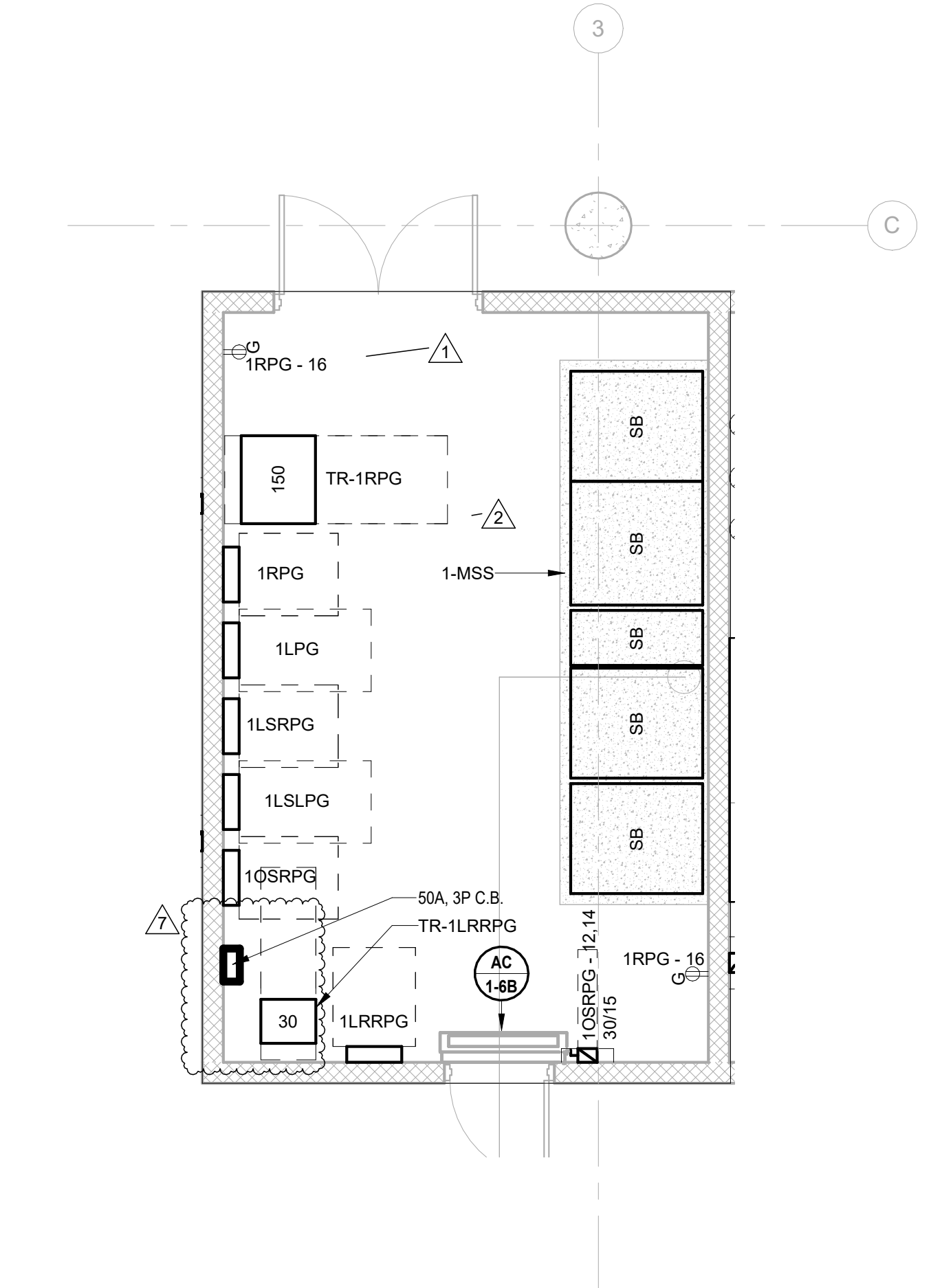
1 BUILDING NO. 2 - ROOF - ELECTRICAL LIGHTING PLAN E-217 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

2 BLDG2 EMR ROOF E-217 SCALE: 1/8" = 1'-0"

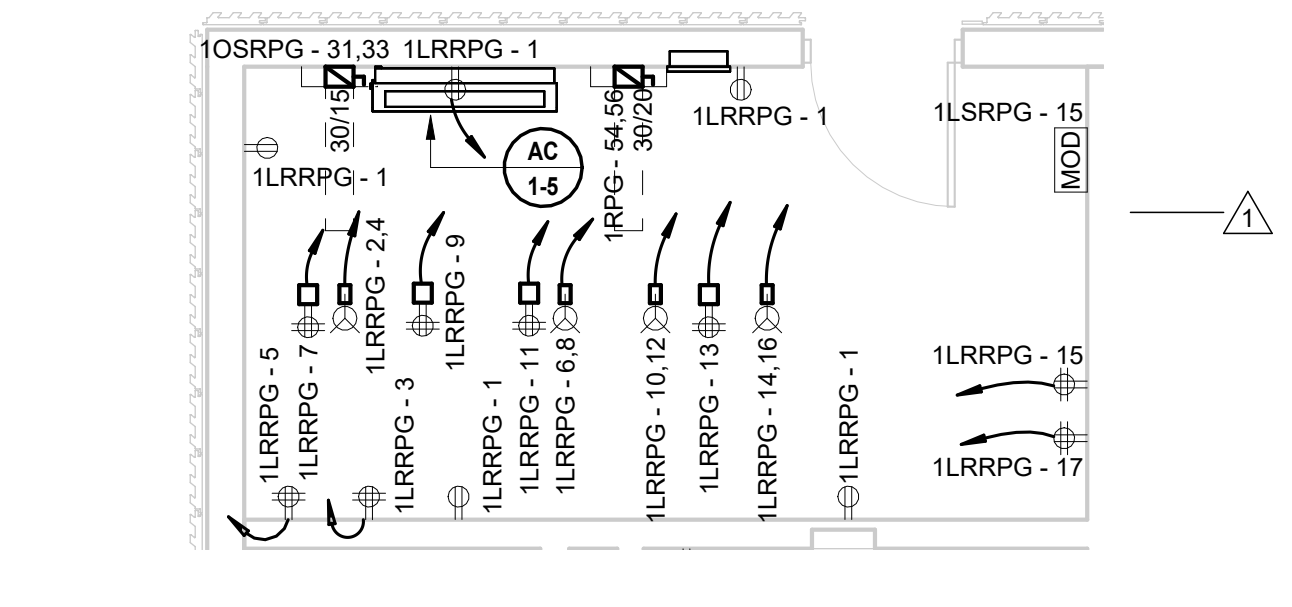
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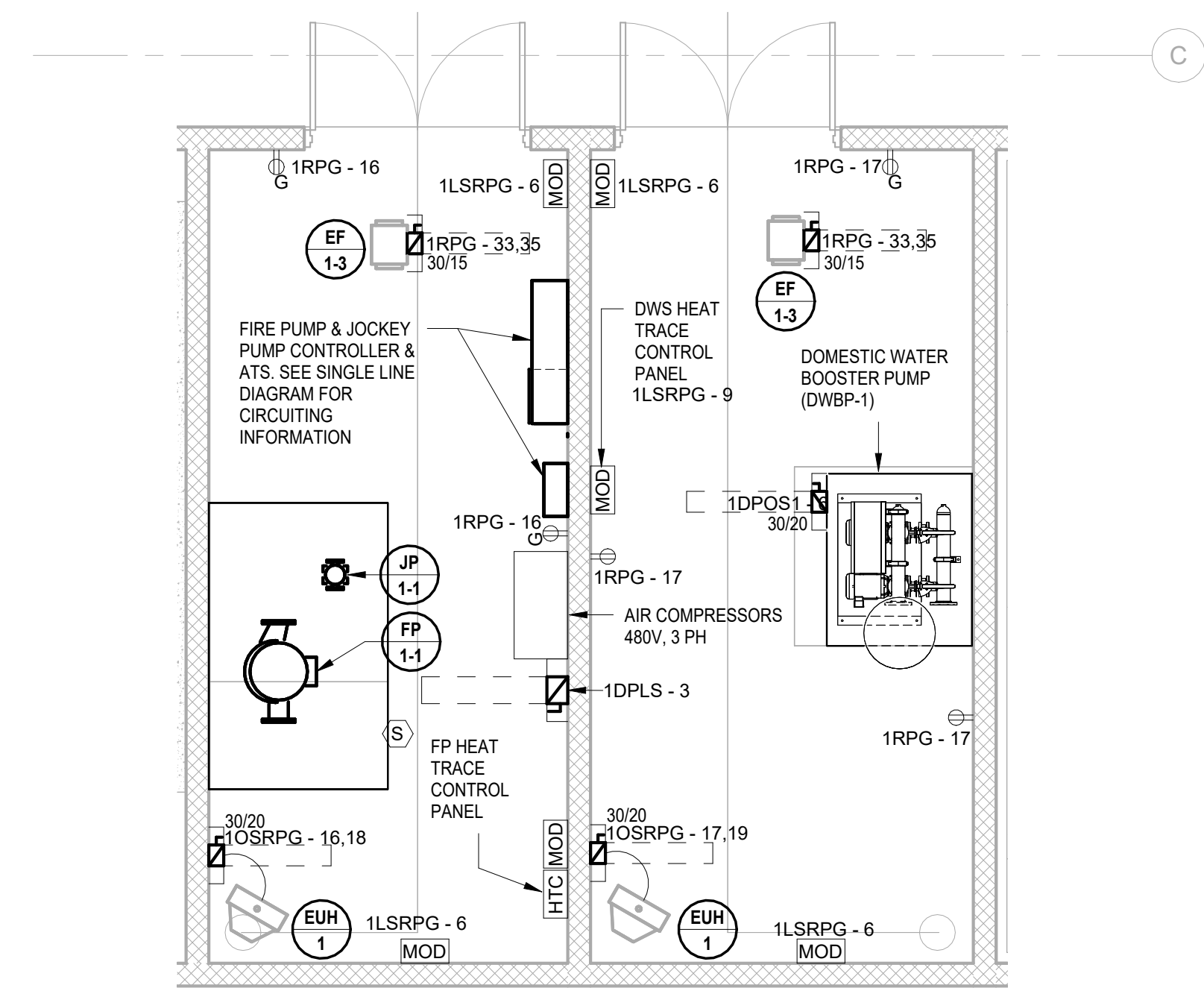
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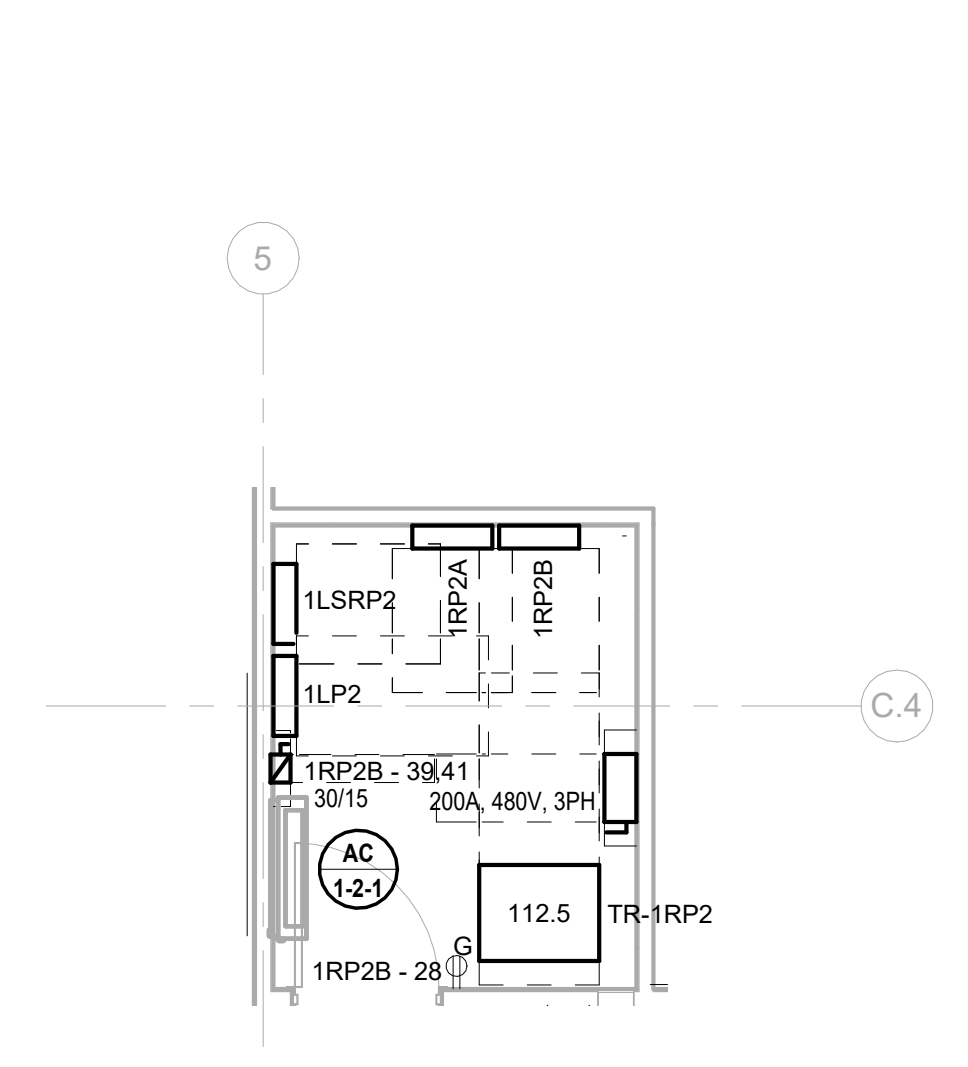
1 BUILDING NO. 1 - ENLARGED ELECTRICAL ROOM 1010
E-301 SCALE: 1/4" = 1'-0"



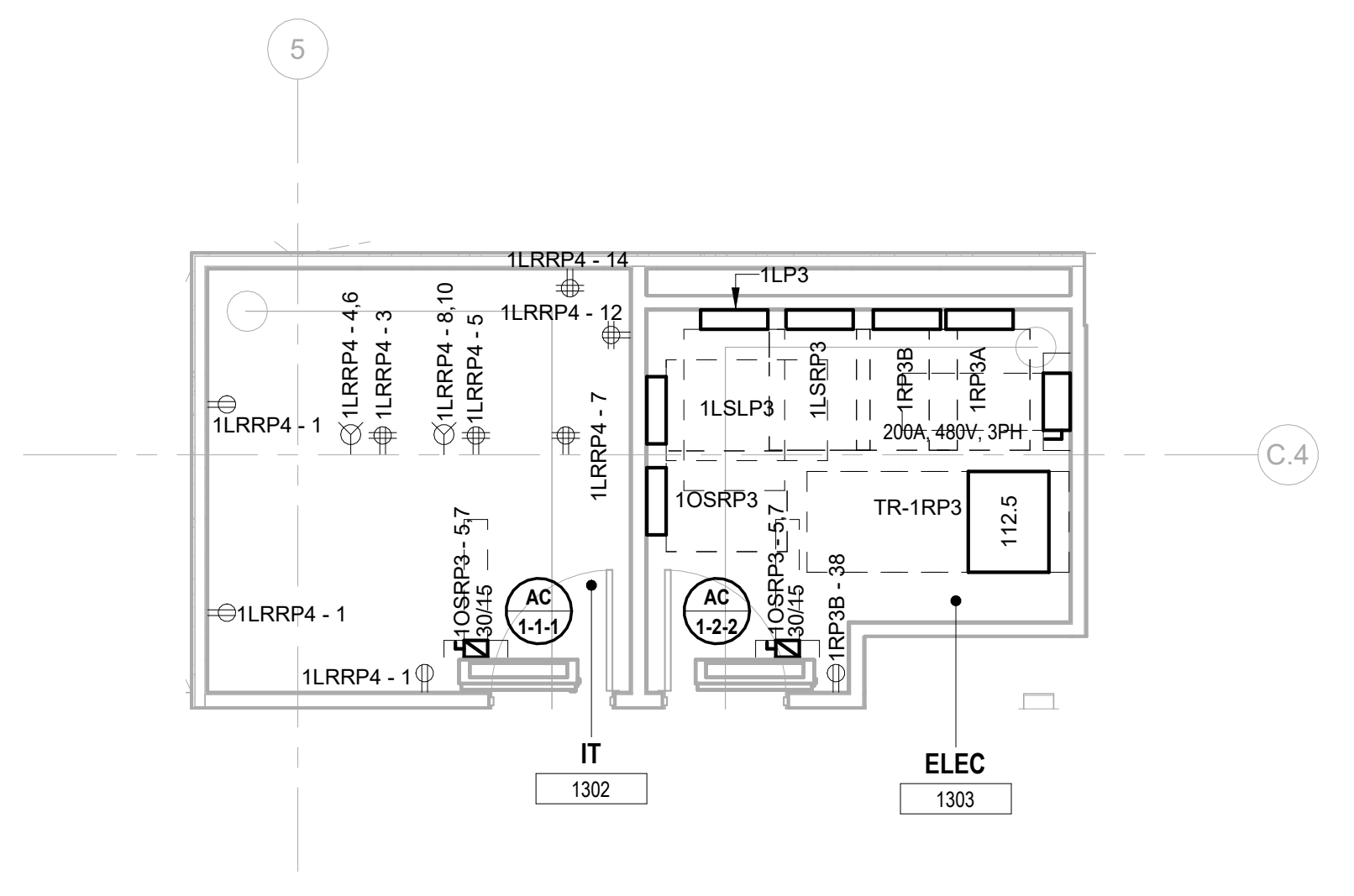
2 BUILDING NO. 1 - LEVEL 1 - ELECTRICAL POWER PLAN - DEMARC. ROOM
E-301 SCALE: 1/4" = 1'-0"



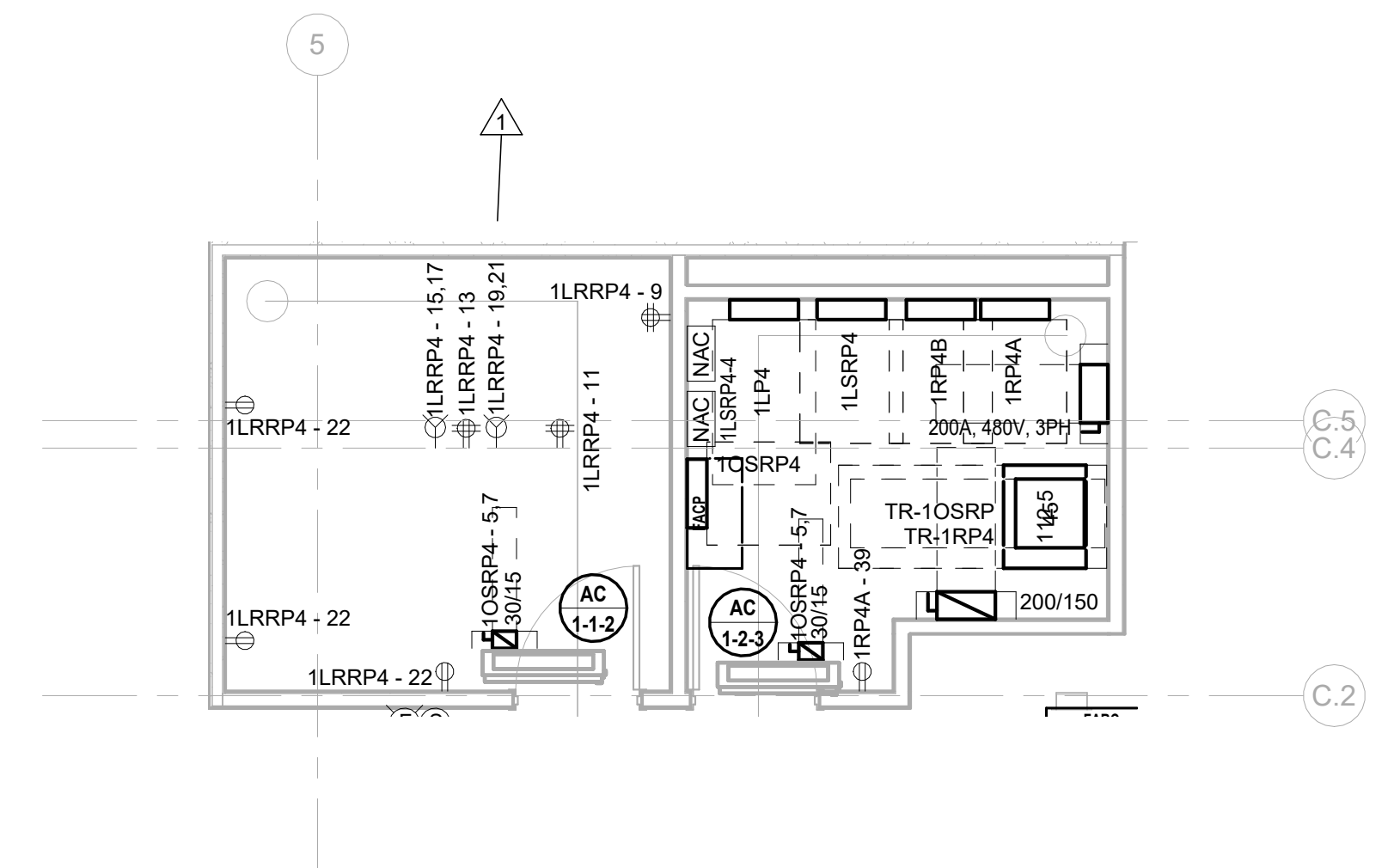
3 BUILDING NO. 1 - ENLARGED GARAGE LEVEL PUMP ROOMS
E-301 SCALE: 1/4" = 1'-0"



4 BUILDING NO. 1 - ENLARGED ELEC RM 1206
E-301 SCALE: 1/4" = 1'-0"



5 BUILDING NO. 1 - ENLARGED ELEC 1303 & IT 1302
E-301 SCALE: 1/4" = 1'-0"



6 BUILDING NO. 1 - ENLARGED ELEC 1403 & IT 1402
E-301 SCALE: 1/4" = 1'-0"

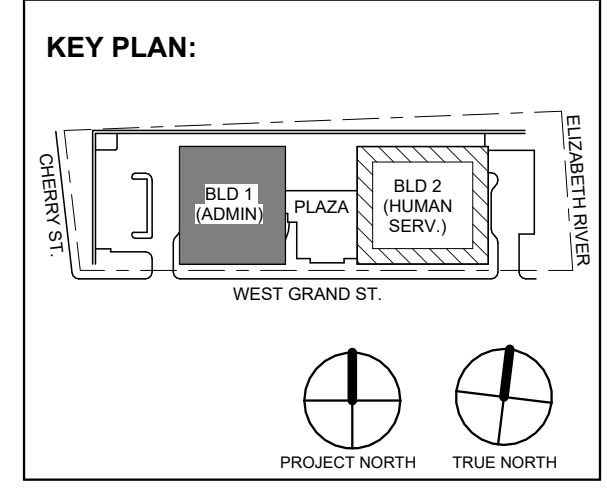


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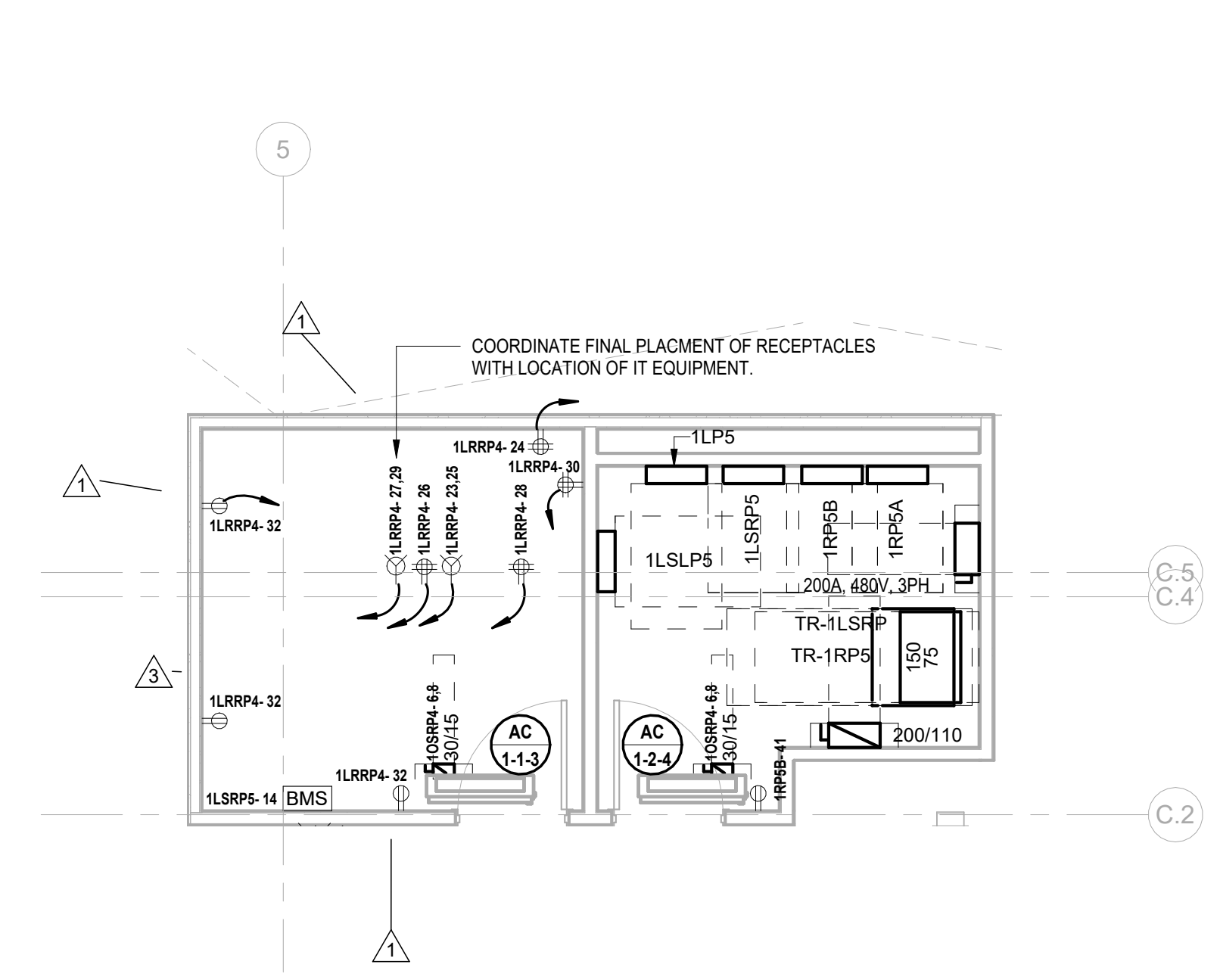
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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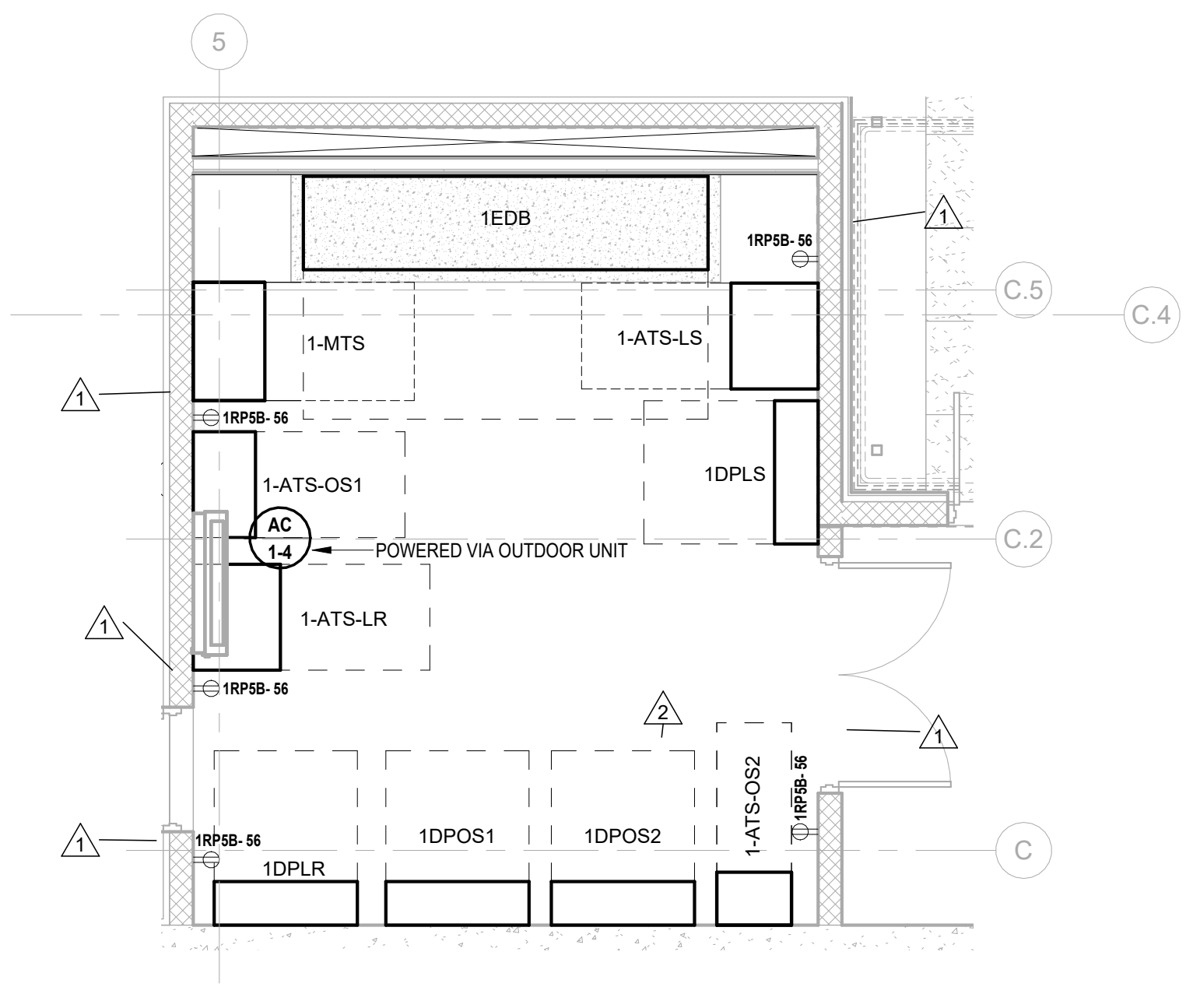
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BUILDING NO. 1 - ELECTRICAL ENLARGED PLANS

Sheet No:
E-301

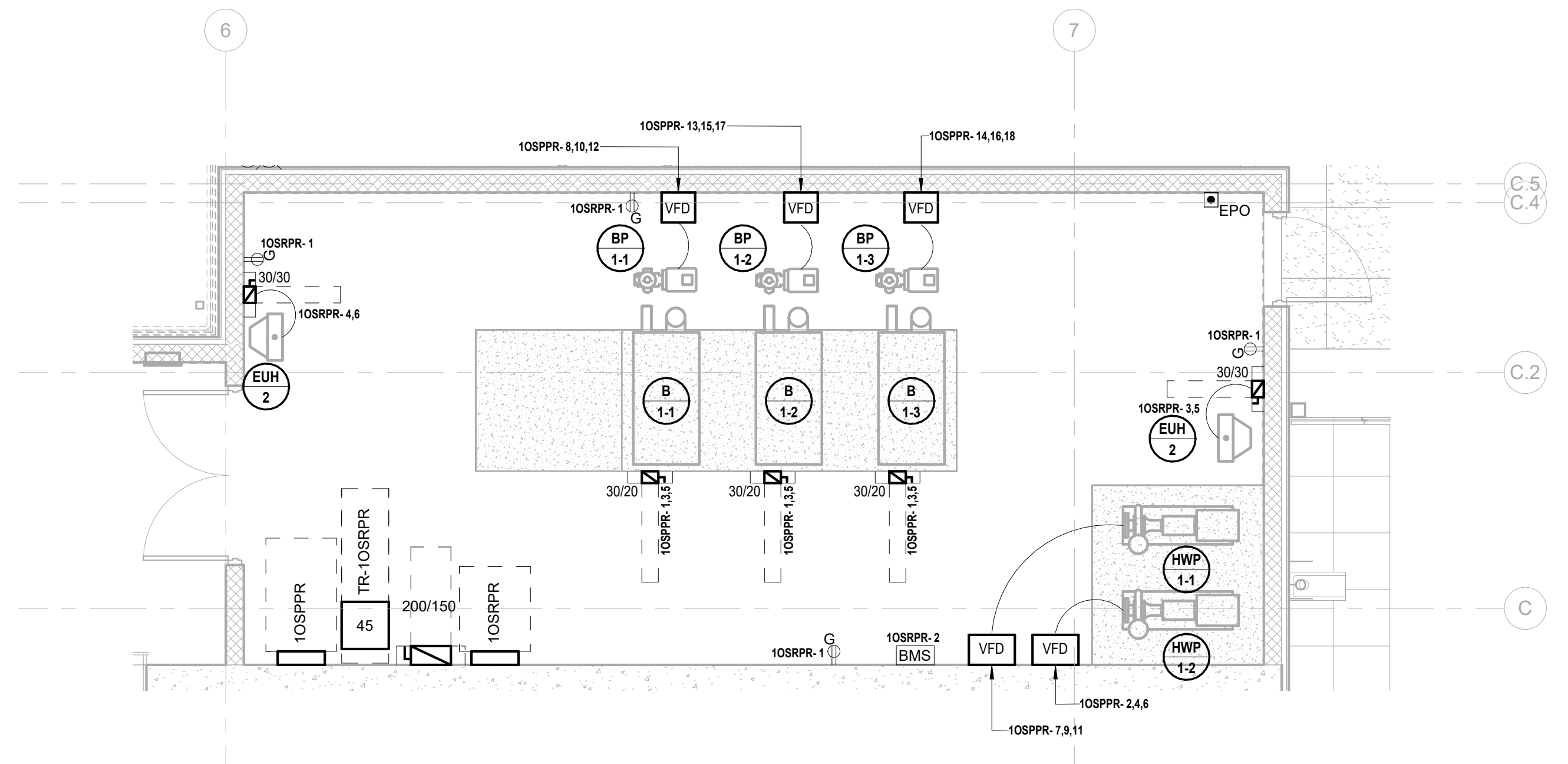
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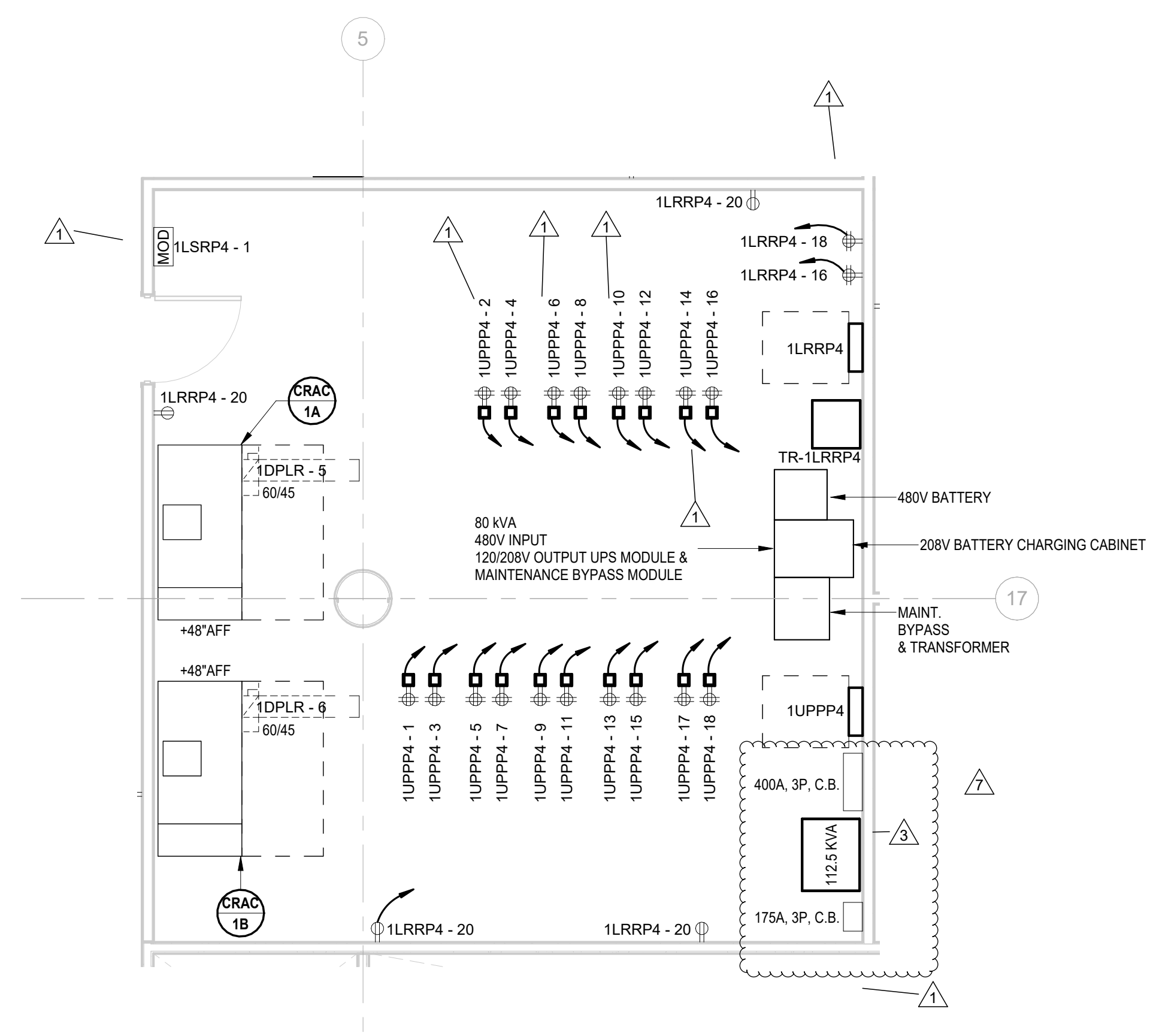
1 BUILDING NO.1 - LEVEL 5 - ELECTRICAL POWER PLAN SCALE: 1/4" = 1'-0"



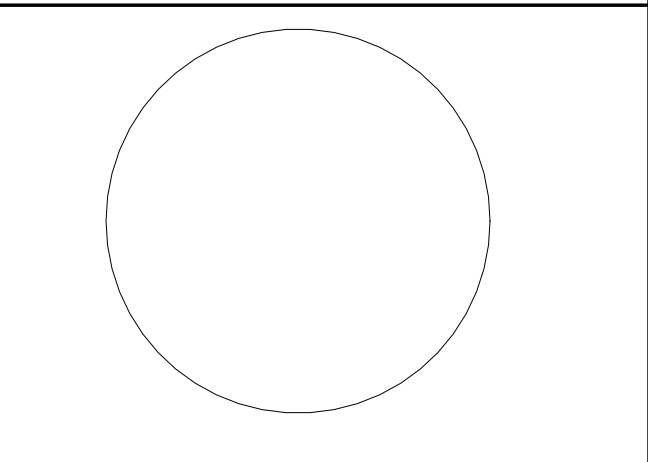
2 BUILDING NO.1 - ENLARGED EMERGENCY ELEC. RM 1602 SCALE: 1/4" = 1'-0"



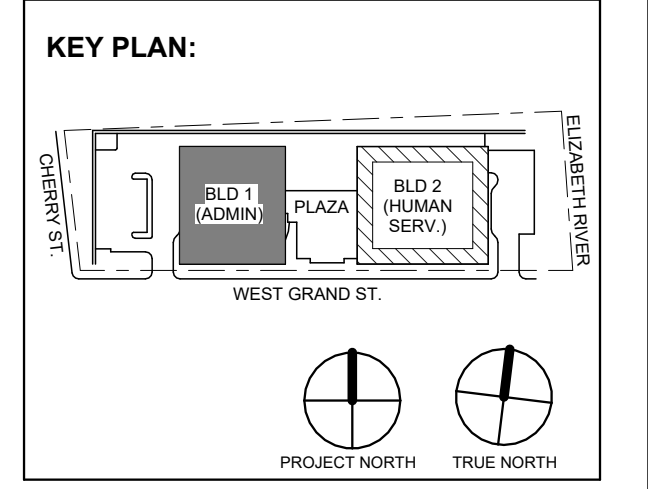
3 BUILDING NO.1 - ENLARGED BOILER ROOM 1603 SCALE: 1/4" = 1'-0"



4 BUILDING NO.1 - LEVEL 4 - ELECTRICAL POWER PLAN - DATA CENTER 1442 SCALE: 1/4" = 1'-0"



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Revisions / Issues table with columns for No., Date, and Description.

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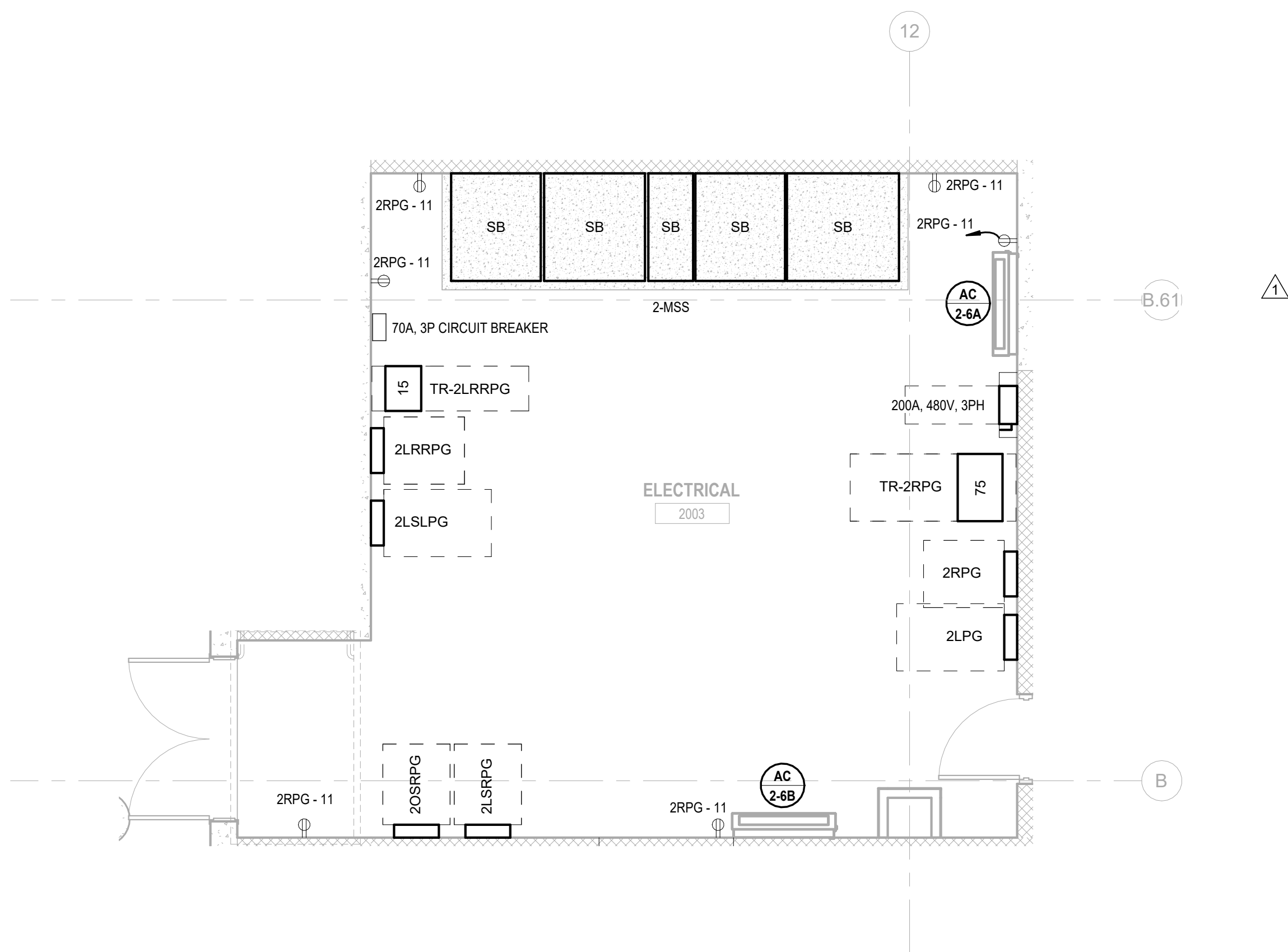
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Sheet No: E-302

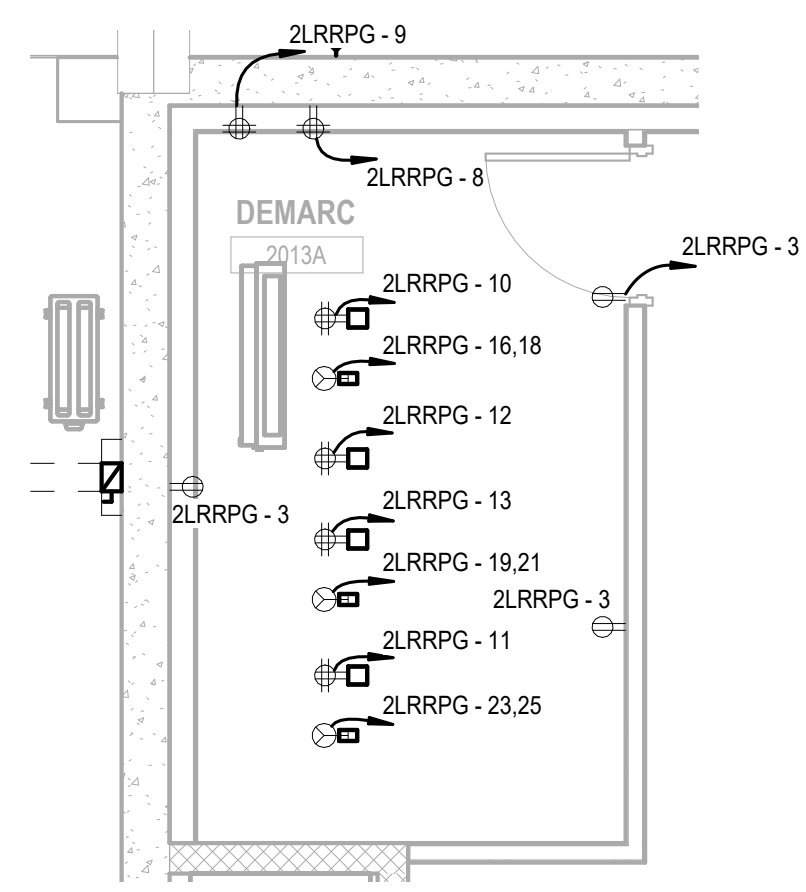
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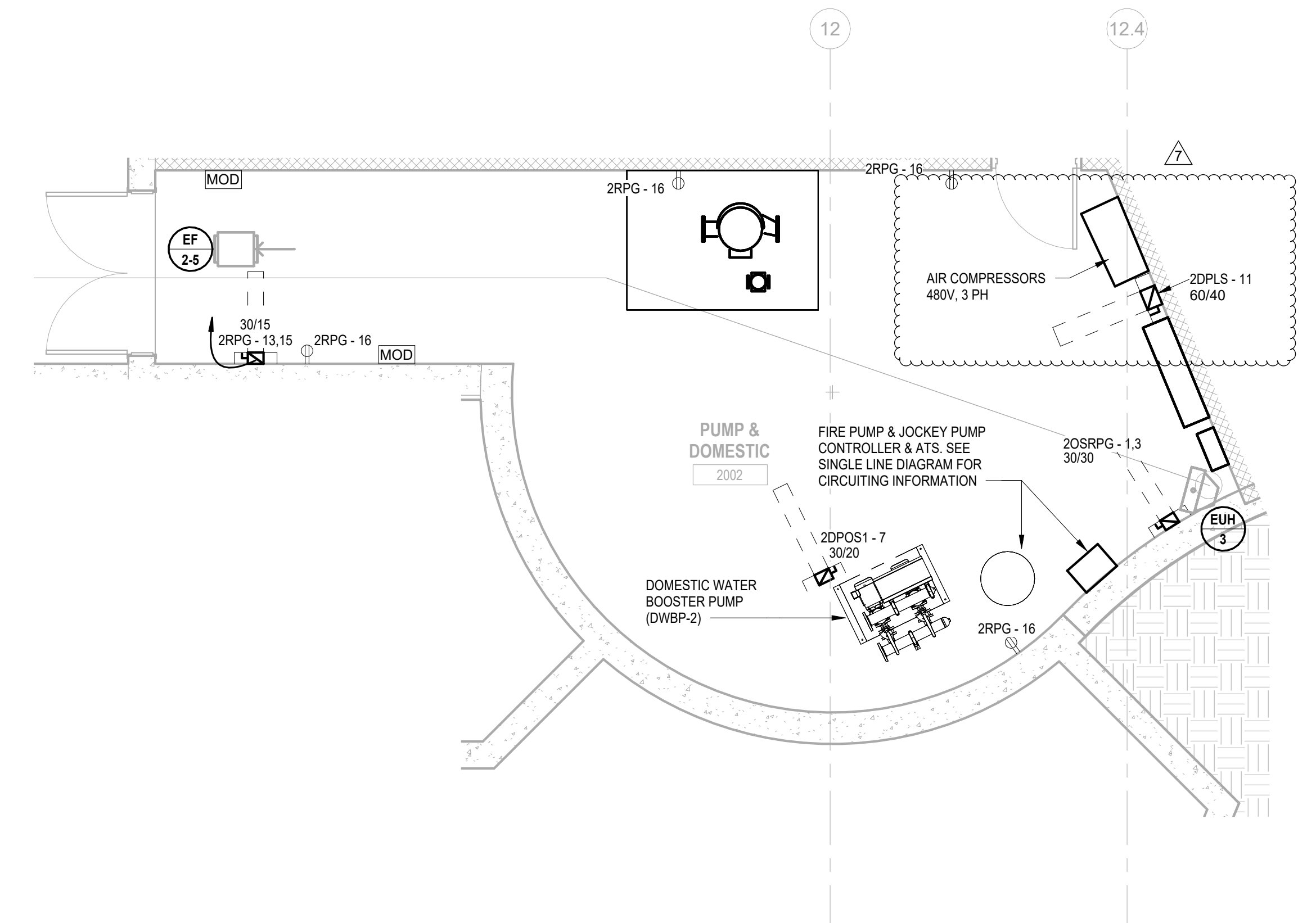
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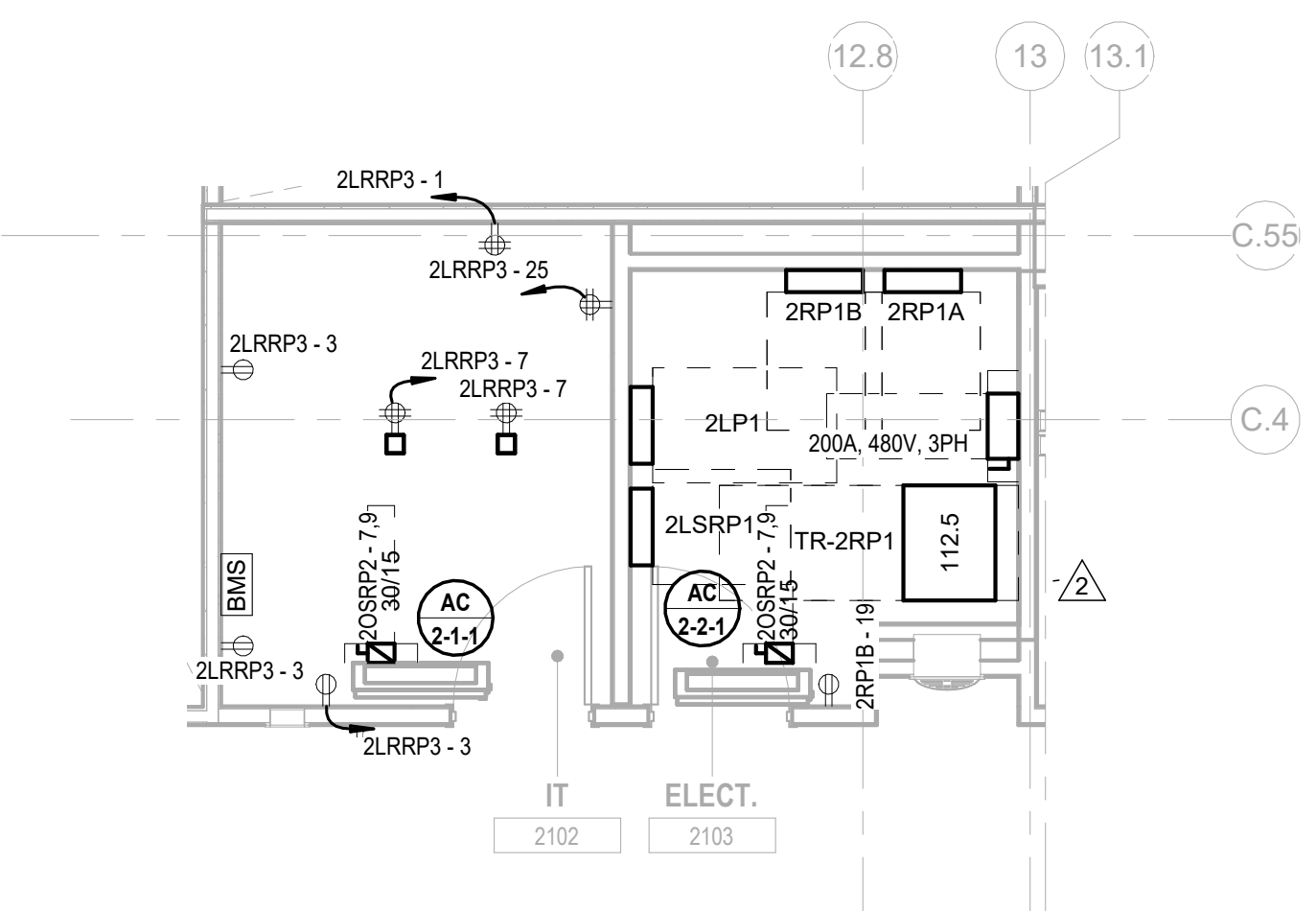
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E-303 SCALE: 1/4" = 1'-0"



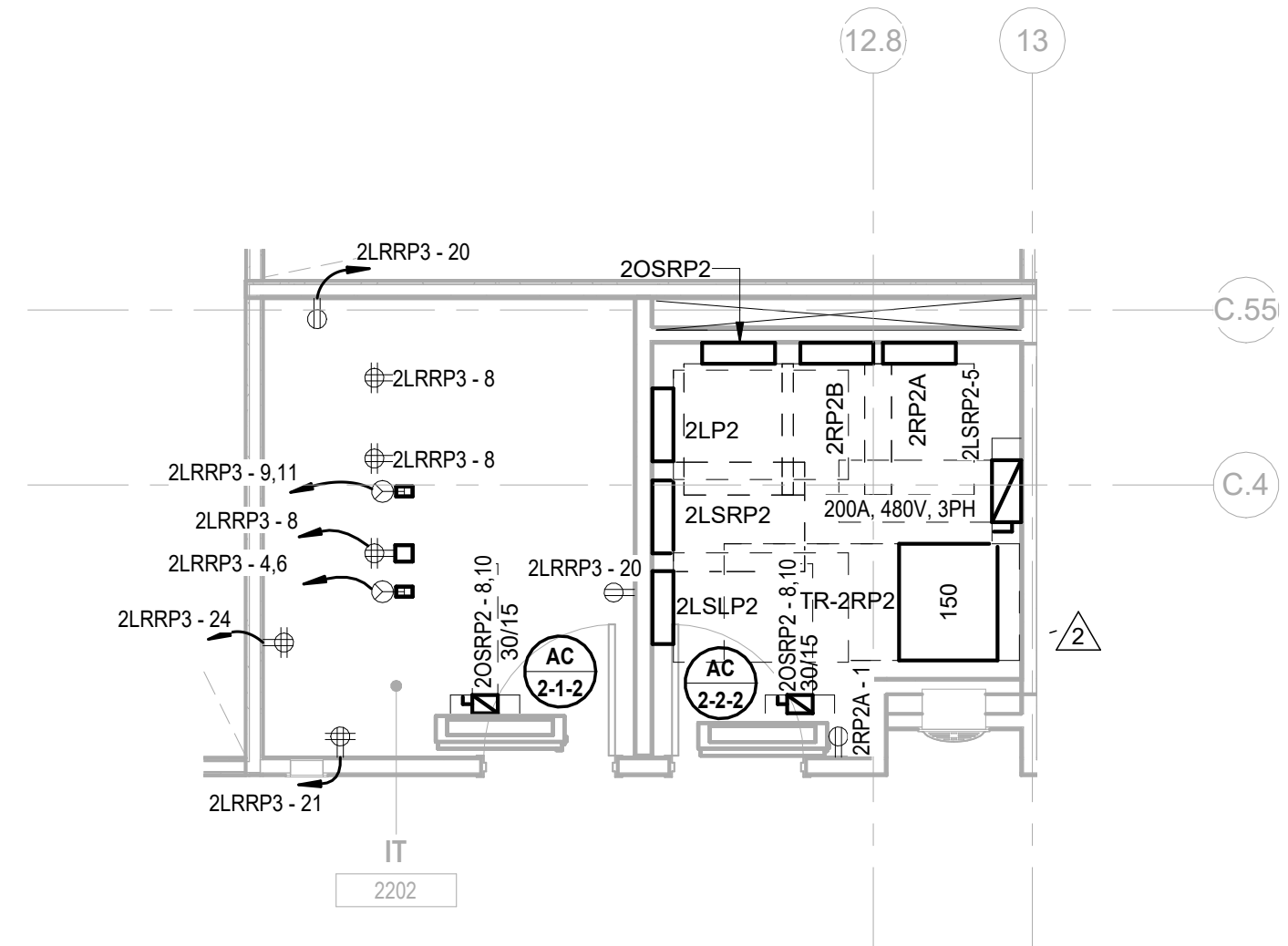
2 BUILDING NO.2 - LEVEL 0 - ELECTRICAL POWER PLAN - DEMARC ROOM
E-303 SCALE: 1/4" = 1'-0"



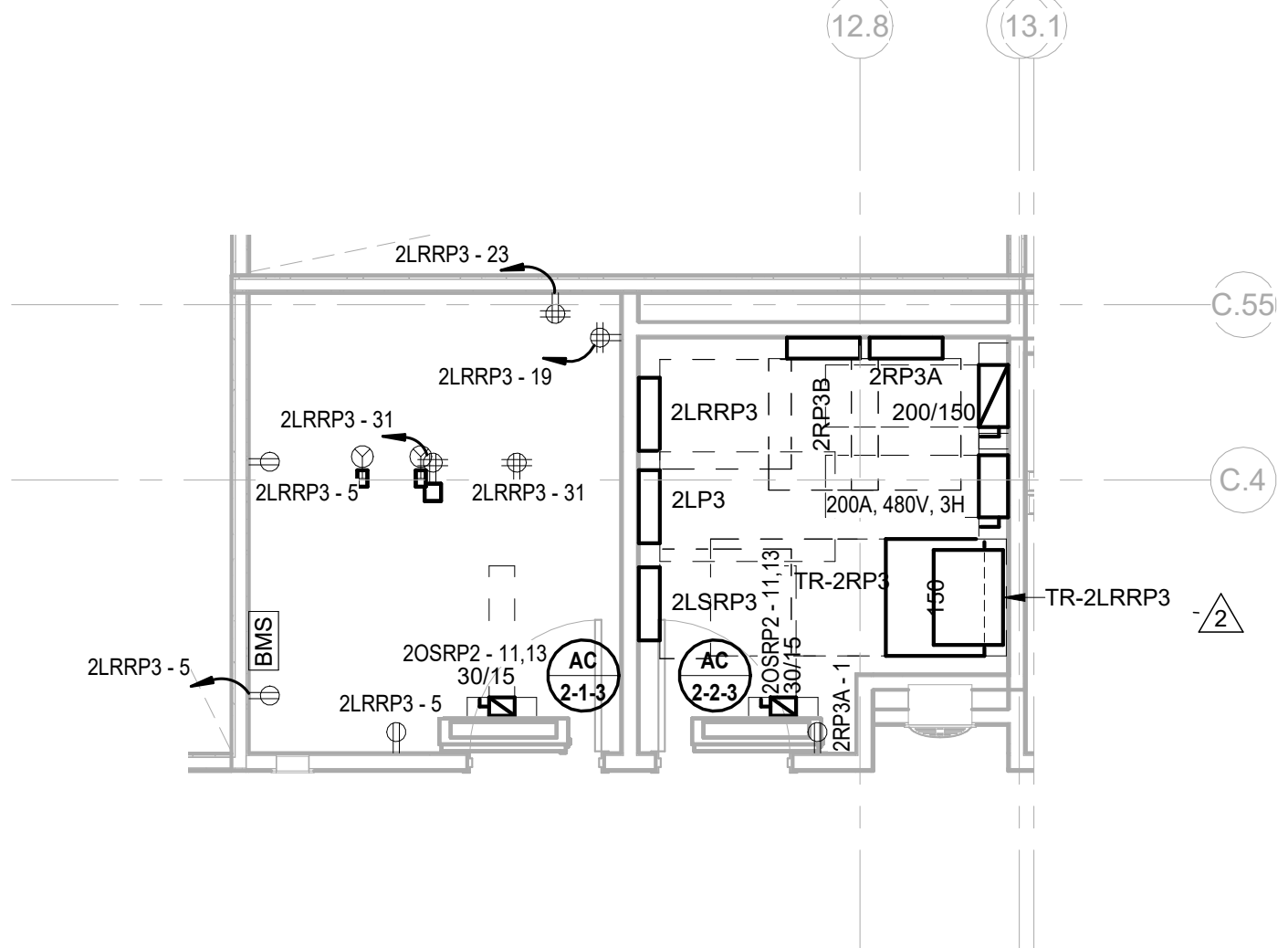
3 BUILDING NO.2 - ENLARGED GARAGE LEVEL PUMP ROOM
E-303 SCALE: 1/4" = 1'-0"



4 BUILDING NO.2 - ENLARGED ELEC 2103 & IT 2102
E-303 SCALE: 1/4" = 1'-0"



5 BUILDING NO.2 - ENLARGED ELEC 2203 & IT 2202
E-303 SCALE: 1/4" = 1'-0"



6 BUILDING NO.2 - ENLARGED ELEC 2303 & IT 2302
E-303 SCALE: 1/4" = 1'-0"

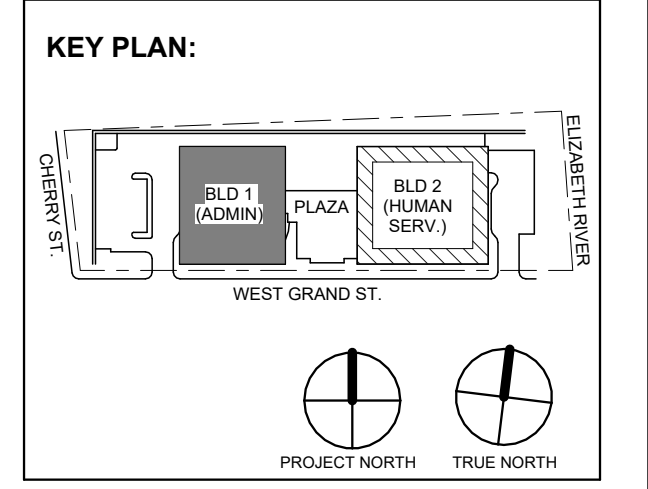


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CITY OF ELIZABETH
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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - ELECTRICAL ENLARGED PLANS

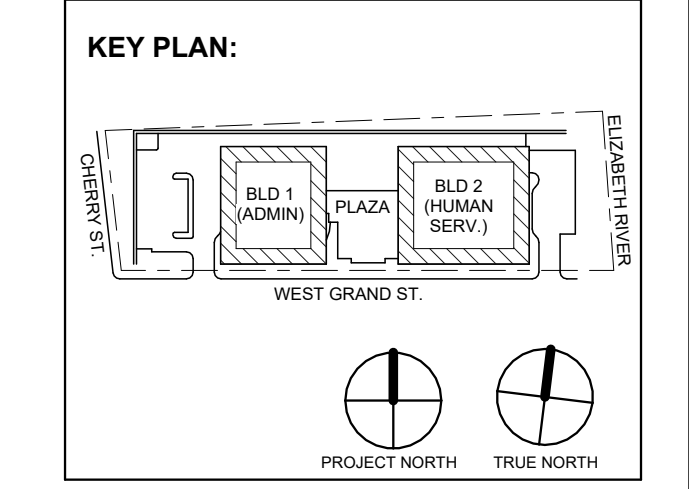
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DESIGNED BY: JUL DATE: JUL SCS JCM PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



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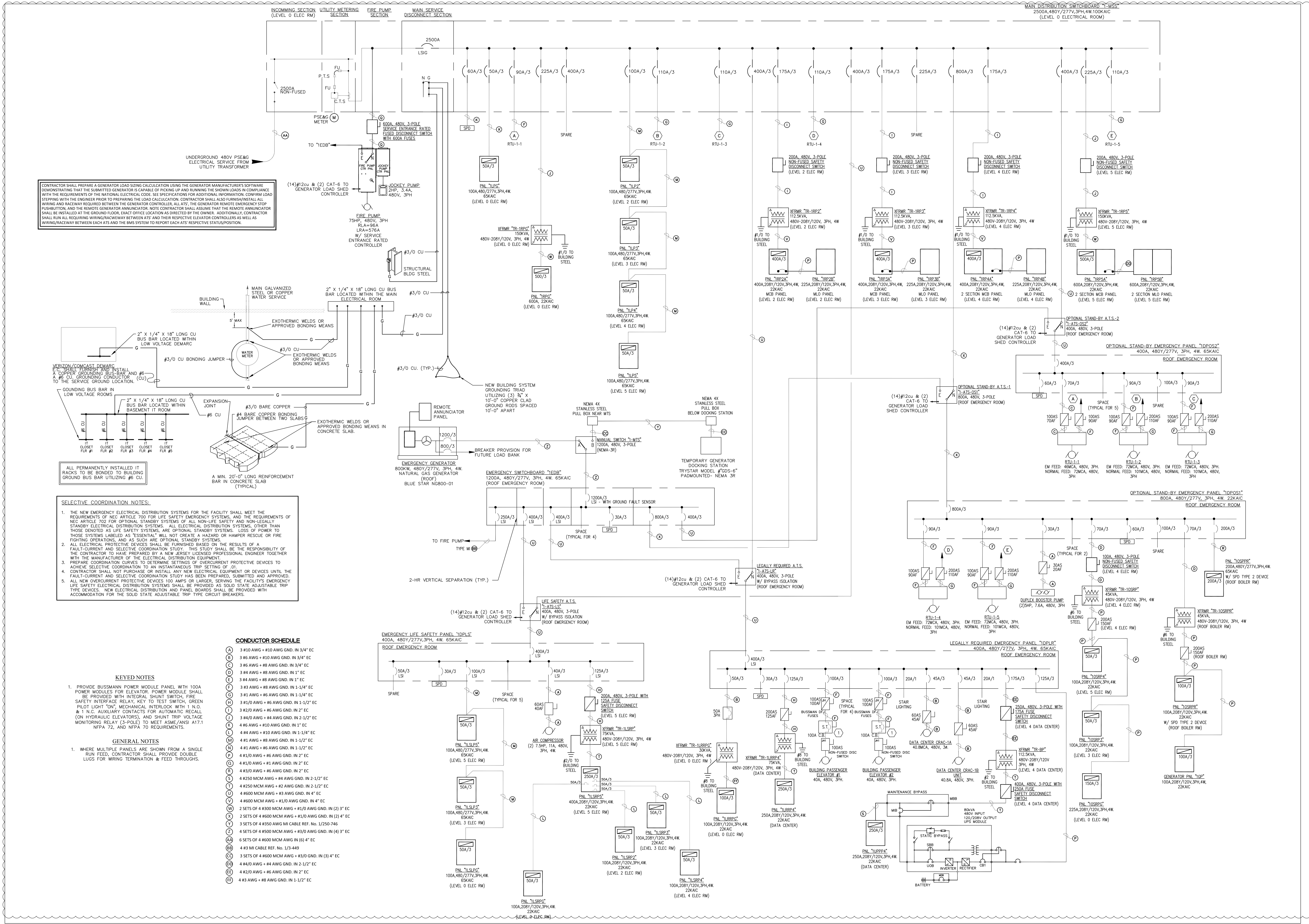
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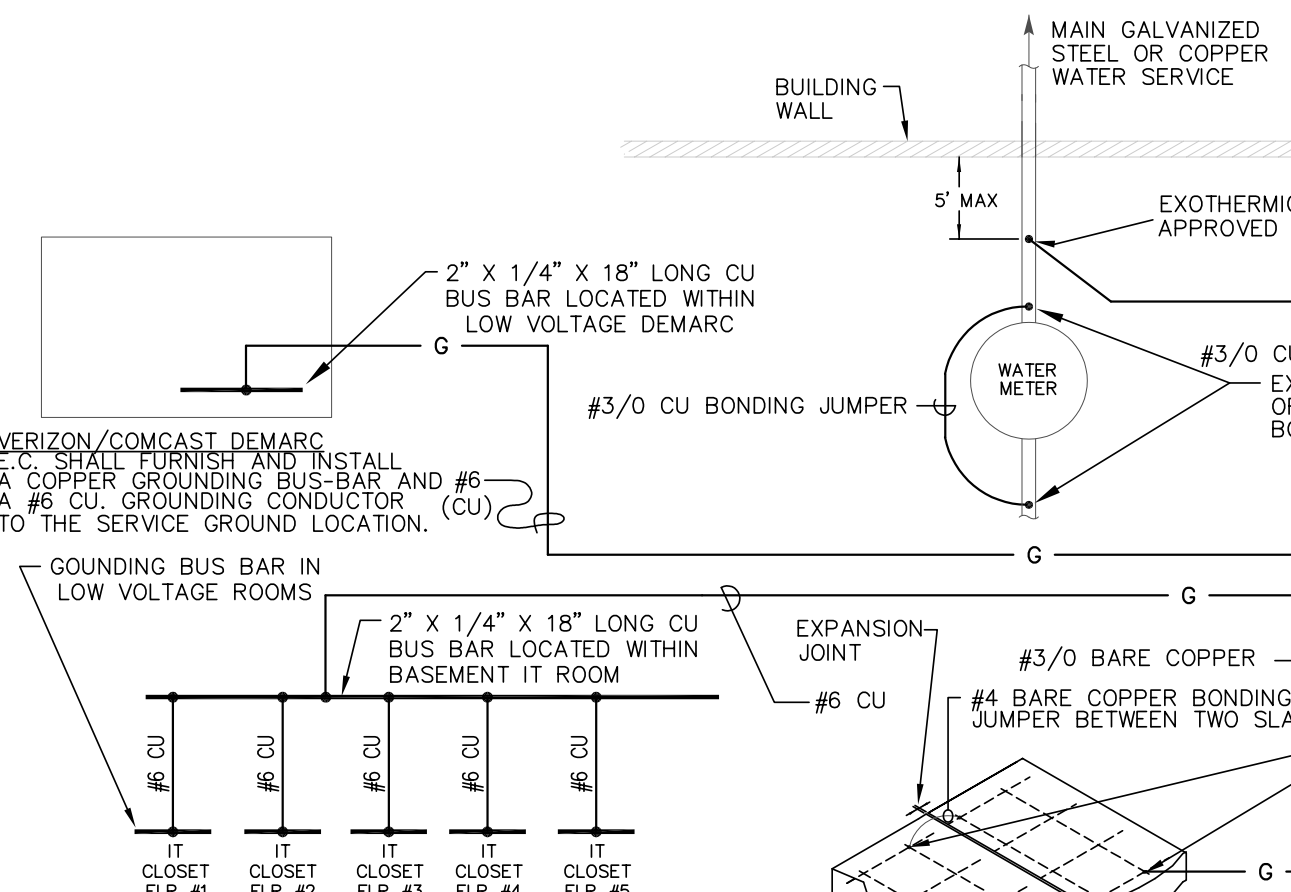
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

BUILDING NO. 1 - ELECTRICAL SINGLE LINE DIAGRAM

Sheet No: E-401



CONTRACTOR SHALL PREPARE A GENERATOR LOAD CALCULATION USING THE GENERATOR MANUFACTURER'S SOFTWARE DEMONSTRATING THAT THE SUBMITTED GENERATOR IS CAPABLE OF PICKING UP AND RUNNING THE SHOWN LOADS IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE...



ALL PERMANENTLY INSTALLED IT RACKS TO BE BONDED TO BUILDING GROUND BUS BAR UTILIZING #6 CU.

- SELECTIVE COORDINATION NOTES: 1. THE NEW EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS FOR THE FACILITY SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 700 FOR LIFE SAFETY EMERGENCY SYSTEMS...

CONDUCTOR SCHEDULE

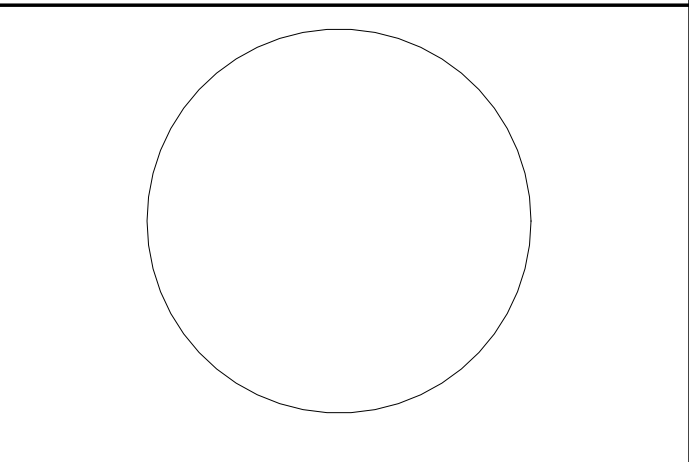
- 3 #10 AWG + #10 AWG GND. IN 3/4" EC
3 #6 AWG + #10 AWG GND. IN 3/4" EC
3 #6 AWG + #8 AWG GND. IN 3/4" EC
3 #4 AWG + #8 AWG GND. IN 1" EC

- KEYED NOTES: 1. PROVIDE BUSSMANN POWER MODULE PANEL WITH 100A POWER MODULES FOR ELEVATOR. POWER MODULE SHALL BE PROVIDED WITH INTEGRAL SHUNT SWITCH, FIRE SAFETY INTERFACE RELAY, KEY TO TEST SWITCH, GREEN PILOT LIGHT 'ON', MECHANICAL INTERLOCK WITH 1 N.O. & 1 N.C. AUXILIARY CONTACTS FOR AUTOMATIC RECALL...

- GENERAL NOTES: 1. WHERE MULTIPLE PANELS ARE SHOWN FROM A SINGLE RUN FEED, CONTRACTOR SHALL PROVIDE DOUBLE LOSS FOR WIRING TERMINATION & FEED THROUGH.

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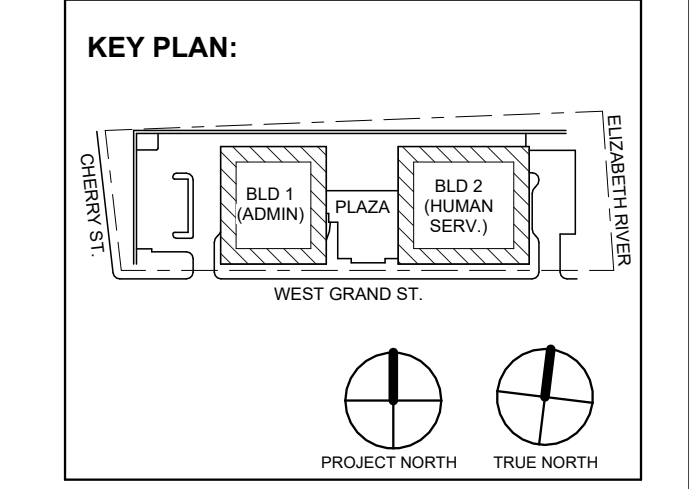
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DESIGNED BY: N/A DRAWN BY: DATE: 11/08/2023 CHECKED BY: JCM REVISIONS BY: JCM

PROJECT NO: DGA2301 SCALE: AS SHOWN



7 1/12/2024 Addendum No. 07 2 12/08/2023 Addendum No. 02 1 11/08/2023 For Public Bid

No. Date Description Revisions / Issues

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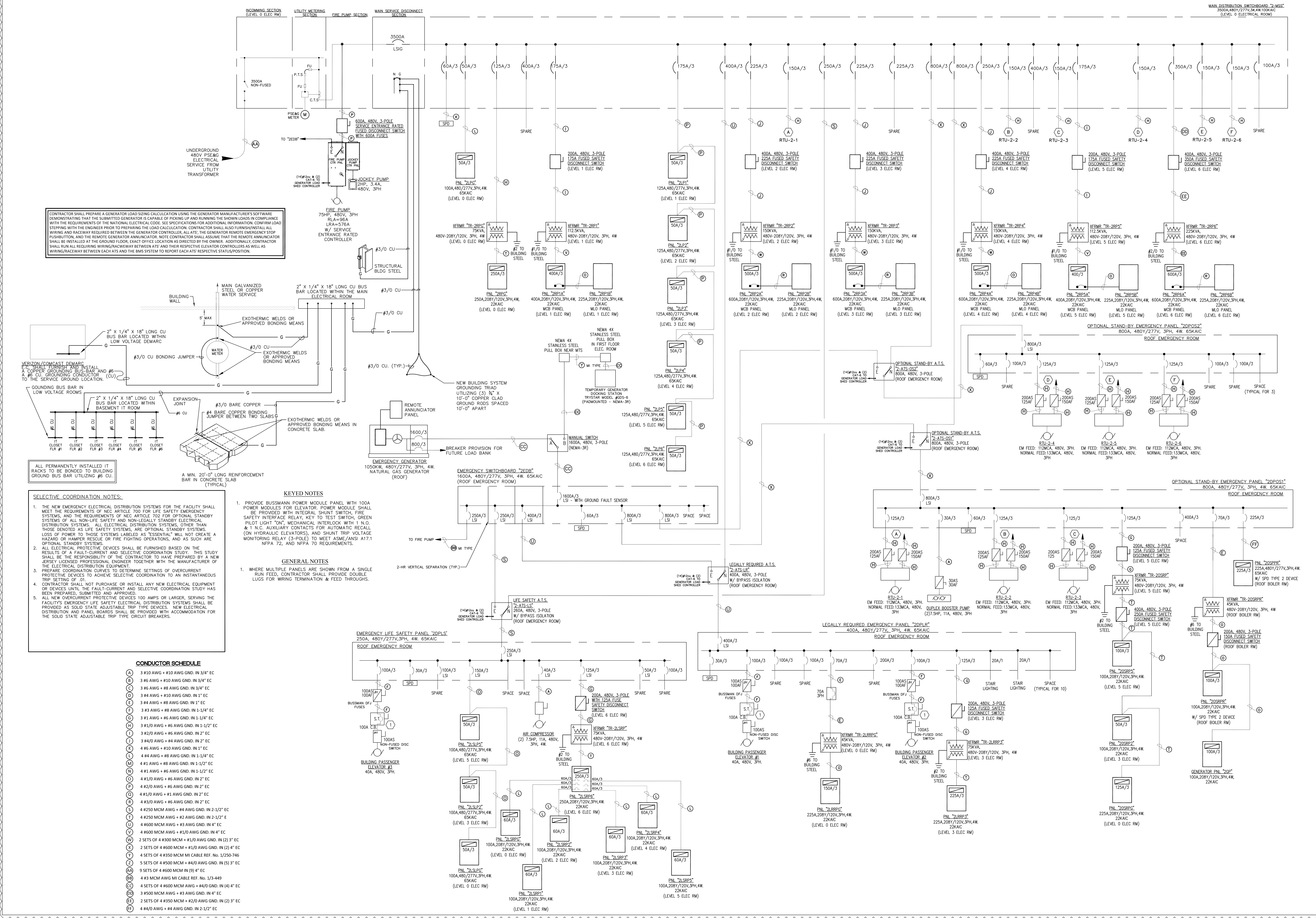
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Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn by: JBA/AVPC Checked by: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SINGLE LINE DIAGRAM

Sheet No:

E-402



CONTRACTOR SHALL PREPARE A GENERATOR LOAD SIZING CALCULATION USING THE GENERATOR MANUFACTURER'S SOFTWARE DEMONSTRATING THAT THE SUBMITTED GENERATOR IS CAPABLE OF PICKING UP AND RUNNING THE SHOWN LOADS IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONFIRM LOAD STEPPING WITH THE ENGINEER PRIOR TO PREPARING THE LOAD CALCULATION. CONTRACTOR SHALL ALSO FURNISH/INSTALL ALL WIRING AND RACEWAY REQUIRED BETWEEN THE GENERATOR CONTROLLER, ALL ATS, THE GENERATOR REMOTE EMERGENCY STOP PUSHBUTTON, AND THE REMOTE GENERATOR ANNUNCIATOR. NOTE CONTRACTOR SHALL ASSUME THAT THE REMOTE ANNUNCIATOR SHALL BE INSTALLED AT THE GROUND FLOOR, EXACT OFFICE LOCATION AS DIRECTED BY THE OWNER. ADDITIONALLY, CONTRACTOR SHALL RUN ALL REQUIRED WIRING/RACEWAY BETWEEN ATS AND THEIR RESPECTIVE ELEVATOR CONTROLLERS AS WELL AS WIRING/RACEWAY BETWEEN EACH ATS AND THE BMS SYSTEM TO REPORT EACH ATS' RESPECTIVE STATUS/POSITION.

ALL PERMANENTLY INSTALLED IT RACKS TO BE BONDED TO BUILDING GROUND BUS BAR UTILIZING #6 CU.

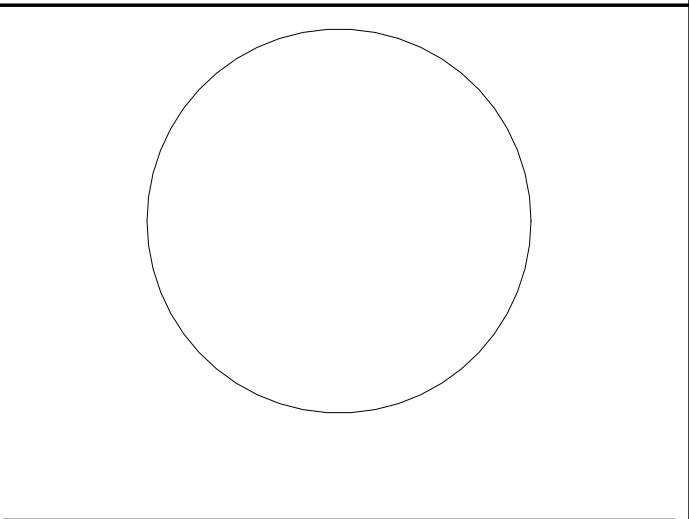
SELECTIVE COORDINATION NOTES: 1. THE NEW EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS FOR THE FACILITY SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 700 FOR LIFE SAFETY EMERGENCY SYSTEMS...

KEYED NOTES: 1. PROVIDE BUSSMANN POWER MODULE PANEL WITH 100A POWER MODULES FOR ELEVATOR. POWER MODULE SHALL BE PROVIDED WITH INTEGRAL SHUNT SWITCH, FIRE SAFETY INTERFACE RELAY, KEY TO TEST SWITCH, GREEN PILOT LIGHT "ON", MECHANICAL INTERLOCK WITH 1 N.O. & 1 N.C. AUXILIARY CONTACTS FOR AUTOMATIC RECALL (ON HYDRAULIC ELEVATORS), AND SHUNT TRIP VOLTAGE MONITORING RELAY (3-POLE) TO MEET ASME/ANSI 417.1 NFPA 72, AND NFPA 70 REQUIREMENTS.

GENERAL NOTES: 1. WHERE MULTIPLE PANELS ARE SHOWN FROM A SINGLE RUN FEED, CONTRACTOR SHALL PROVIDE DOUBLE LUGS FOR WIRING TERMINATION & FEED THROUGH.

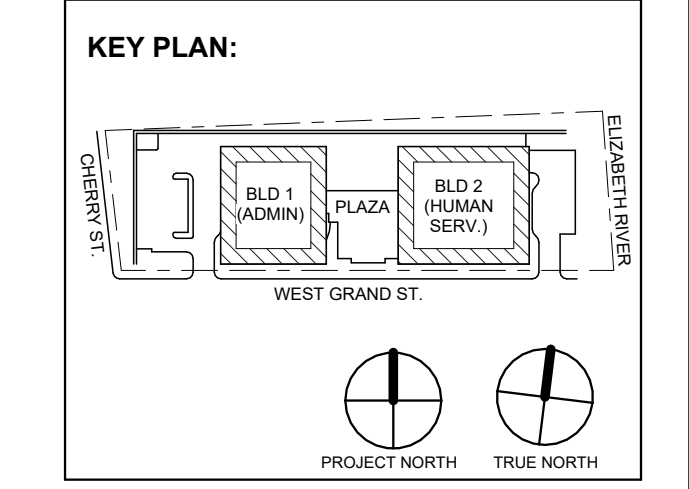
CONDUCTOR SCHEDULE table listing conductor sizes, materials, and applications for various equipment and rooms.

Lighting Fixture Schedule			
FIXTURE TYPE	MANUFACTURER	DESCRIPTION	MODEL INFORMATION
A	LITHONIA	ENVEX 2X2 LED	ENVX 2X2 HRG 3000LM 90 CRI 35K MIN10
B	LITHONIA	CPANL 2X2 LED	CPANL 2X2 ALO1 SWW7 M4 35K
C	MARK	SLOT 2 DIRECT/INDIRECT	S2PID LCB __ 90 CRI 35K 600 LMF BW DCT MIN10 FLL DC MVOLT WHTT
D	MARK	SLOT 2 RECESSED LED	SL2L LOP __ FLP TG 90CRI 35K 600 LMF __ MIN10
E	OPUS	REPRISE RS4 4" SQUARE DOWNLIGHT	SW90-35K-30 LM - DIM10 - BM WH WH
F	MARK	SLOT2	S2PID LCB __ 90 CRI 35K 600 LMF BW DCT MIN10 FLL DC MVOLT WHTT
F1	MARK	SLOT2 - TRANSITION KIT FROM PENDANT	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
G	NULITE	REGOLO 4" SLOT RECESSED LENS	RXT-F FF 05 H35 1E U D S 4 GTD VR
H	MARK	4" SPR LED WALL GRAZER	SPRLED LOP __ RLP FL 90CRI 35K 600LMF MIN 1 MVOLT
I	WAC	TRAP 27" DIA DECORATIVE RING PENDANT	PD-95827 3000K CRI 90 CHROME FINISH
J		ACCENT PENDANT AT KITCHENETTES	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
K	WAC	MINI LED MULTIPLE SPOTS	MT-3LD311NA-F935-BK
L	EUREKA	CYCLE 24" RING PENDANT	4800-24-LED-35-90-120V-DV
L2	EUREKA	CYCLE 54" RING PENDANT	4800-54-LED-35-90-120V-DV
M	MERCURY	48" LINEAR WALL MOUNTED	L455 4 8 3800 35K HTA20 1% 50-UNI-EM
N		VESTIBULE PENDANT	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
O	DIODE LED	NEON BLAZE DIFFUSED LED LIGHTING	DI-24V-NBL4-35 __ CHM -UC 010 O/O FACTORY
P	INFINILINE	DIODE - HARDWIRED	120V LED STRIP LIGHT 3500K CRI90 - WET OR DRY LOCATION RATED -LENGTHS VARY
Q	XICO	NANO SQUARE 0.95" LED SURFACE MOUNT	NSQ95-S4-MWH-ET-OFL-HE90-35-DLAM X200LM/FT-UNV-FD01 - SC1, P48WH, SSMB
R	EUREKA	SPIN 3036B - SURFACE RING FIXTURE	3036B-LED-35-90-120V-DV-WHE-WHE
S		COMMISSIONERS/COUNTY MGR	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
T	EUREKA	24" APERATURE	4256-24 LED 35 90 120V DV AC RC1 WHM WHM
U	LANDSCAPE FORMS	MULTIPLICITY	FU-440L4-025F35K-UV1-EM ANONDIZED FINISH
V	WAC	GRAND ACCENT 3" DIA	120V 5212-30-BK
W	LUMENPULSE	LUMENFACADE NANO	LOGNH 4W 48V 12 90 35K W FR UMPNH BK UCTL CRC UL
X1	ASTRALIGHT	AEL	AEL-U-1 OR 2 - RC-W-DI
X2	ASTRALIGHT	AEL	AEL-U-1 OR 2 - RC-W-DI
X3	ASTRALIGHT	AEL	AEL-U-1 OR 2 - RC-W-DI
Y	LUMENPULSE	LUMENFACADE INGROUND	RO LOI HO-120-48-30K-WW-TS2.5-XX-XX-ASL /
Y2	LUMENPULSE	LUMENFACADE INGROUND	LFP-120/277-48-10W-30K-80-CAS-CL-FEED-CONTROL-NVR-FX-FINISH NA + CABLES + CONTROLS
Z	HYDREL	M9700C IN-GRADE LUMINAIRE	M9720C P1 80 NSP 30K - DOUBLE LENS-P1-NARROW SPOT
PL-A	LITHONIA	UNDERGROUND PARKING	VCPG-V4-P1-40K-70 CTI-T5M-MVOLT-SR-M-PIR
PL-B	LITHONIA	UNDERGROUND PARKING	VCPG-V4-P4-40K-70 CTI-T5M-MVOLT-SR-M-PIR
S-A	LSI INDUSTRIES	REFER TO CIVIL DRAWINGS FOR SITE LIGHTING	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
S-B	LSI INDUSTRIES	REFER TO CIVIL DRAWINGS FOR SITE LIGHTING	REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SELECTIONS
S-C	HESS AMERICA	42" H ROUND BOLLARD W/ LIGHT	SE42G - IF- 30K-DIM-UNV-CC



JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER No. 14-188888

DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: SGS. REVIEWED BY: J.C.M. PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



7	1/12/2024	Addendum No. 07
1	12/01/2023	Addendum No. 01
	11/08/2023	For Public Bid

No. Date Description Revisions / Issues

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Jeffrey D. Venezia, AIA NJ RA AI 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: ELECTRICAL LUMINAIRE SCHEDULE

Sheet No: E-501

Distribution Panel: 1-MSS

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes details for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, MCB Rating.

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories like HVAC, Heating, Lighting, Motor, Power, etc.

Notes: Section for additional information or warnings regarding the panel specifications.

Branch Panel: 1LPG

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes details for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, MCB Rating.

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories like Motor, Other, Lighting.

Notes: Section for additional information or warnings regarding the panel specifications.

Branch Panel: 1RPG

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes details for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, MCB Rating.

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories like HVAC, Heating, Motor, Other, Power, etc.

Notes: Section for additional information or warnings regarding the panel specifications.

Branch Panel: 1LSLPG

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes details for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, MCB Rating.

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories like Other, Lighting.

Notes: Section for additional information or warnings regarding the panel specifications.

PANEL SCHEDULE NOTES:

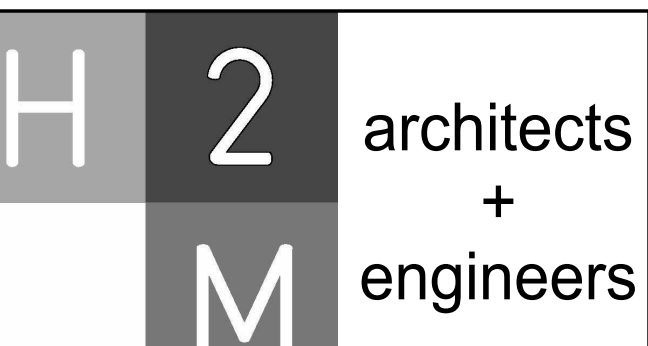
- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER, (L) = LOCK-ON DEVICE, (T) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL, etc.

- 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION, ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.

- 8. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED. 9. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER.

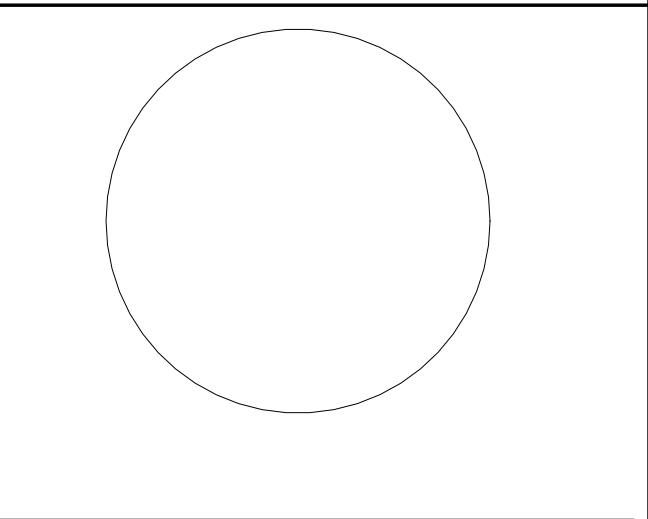
PANEL SCHEDULE KEYED NOTES:

- 1) PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.



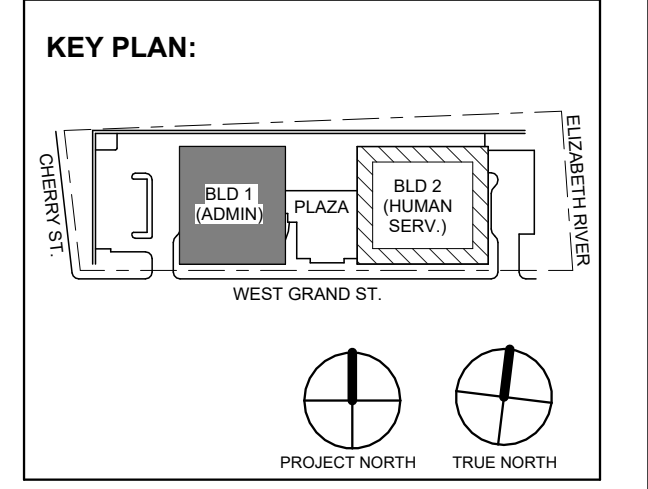
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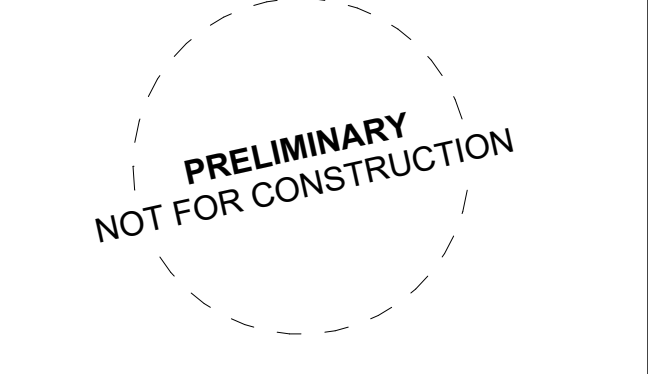
JOHN CHRIS MORRIS III, P.E. LICENSED PROFESSIONAL ENGINEER IN ELECTRICITY

DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: S.G.S. REVIEWED BY: J.C.M. PROJECT NO.: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



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Jeffrey D. Venezia, AIA NJ RA AI 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No.: 20.072 Date: 11.08.2023 Drawn By: JBAV/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No.: E-502

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS:
(G) = GFI CIRCUIT BREAKER
(L) = LOCK-ON DEVICE
(T) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL
EXAMPLE: "POWER OUTLET (G) (L)" REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE.
2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED.
3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.
4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND.
5. ALL MATERIALS SHALL BE UL LABELLED.
6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED.
7. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER.
8. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS.
9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

PANEL SCHEDULE KEYED NOTES:

- (1) PROVIDE (3) PHASE CONDUCTORS, (2) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 1LSRPG

Location: ELEC 1010
Supply From: 1LSRP5
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes rows for Motorized Damper, Fire Smoke Damper, Elevator Pump, Heat Trace Control Panel, Clean Agent Control Panel, Sewage Ejector Pump, and Space.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Motor, Other, Receptacle, Non-Continuous.

Notes:

Branch Panel: 1LRRPG

Location: ELEC 1010
Supply From: TR-1LRRPG
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes rows for Demarc Room, Receptacle, Spare, BMS, and Split Sys. Heat Pump.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes HVAC, Other, Receptacle, Non-Continuous.

Notes:

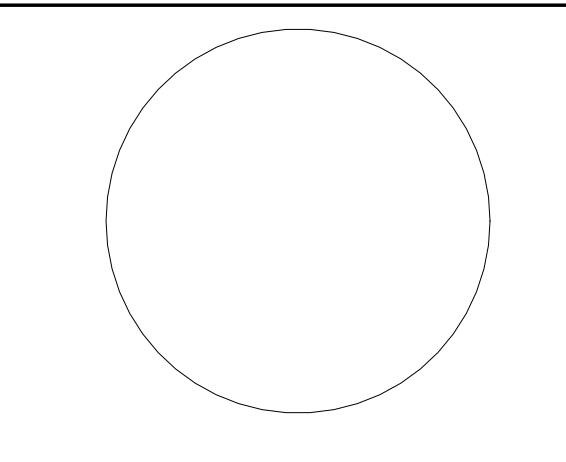
Branch Panel: 1OSRPG

Location: ELEC 1010
Supply From: TR-1OSRPG
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes rows for Motorized Overhead Door Exit, Swing Gate Arm, Vehicle Loop, Recept - Security Desk, Unit Heater, Exhaust Fans, and Demarc RM.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Heating, Motor, Power - General, Receptacle, Power, Non-Continuous.

Notes:



JOHN CHRIS MORRIS III, P.E.
Professional Engineer No. 146886

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Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY. Includes names JJJ, JJJ, SGS, JCM.

Table with columns: PROJECT No., DATE, SCALE. Includes DIGA2301, 11/08/2023, AS SHOWN.

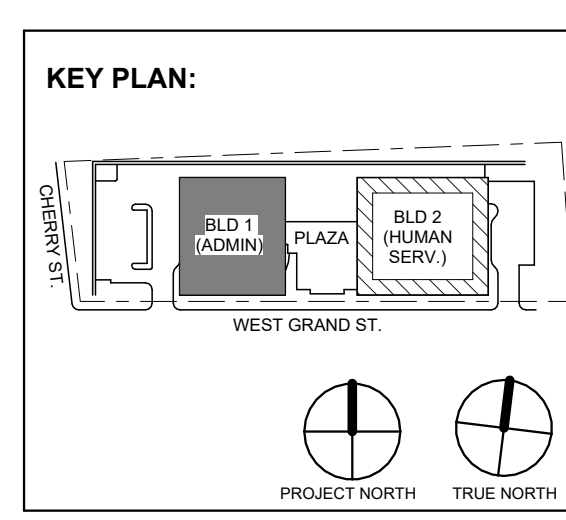


Table with columns: No., Date, Description. Includes Addendum No. 07, 03, 01.

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Jeffrey D. Venezia, AIA
NJ RA AI 00827100



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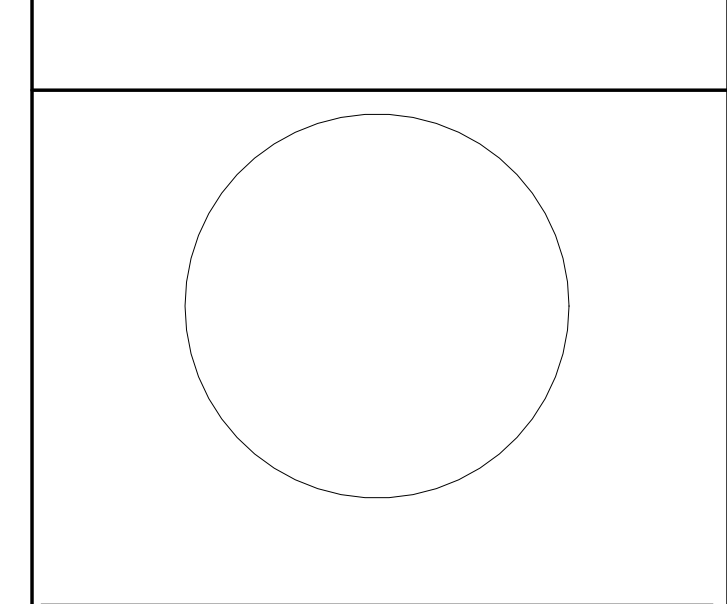
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information: Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

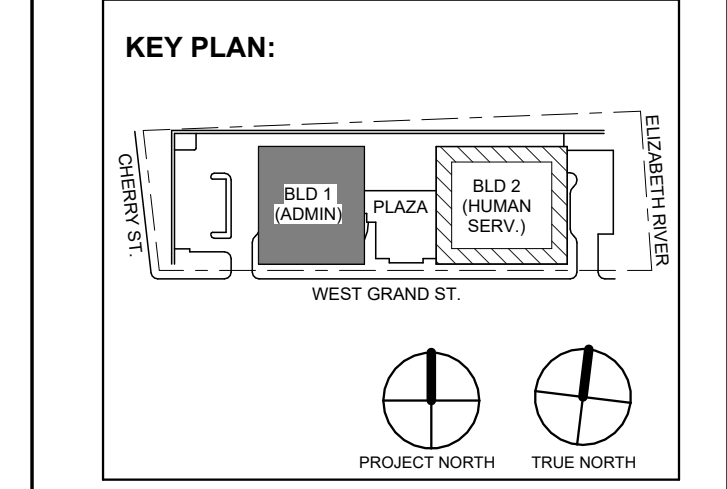
Sheet No: E-503



JOHN CHRIS MORRIS III, P.E. LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

DESIGNED BY: JML CHECKED BY: JCM DRAWN BY: JML SCALE: AS SHOWN

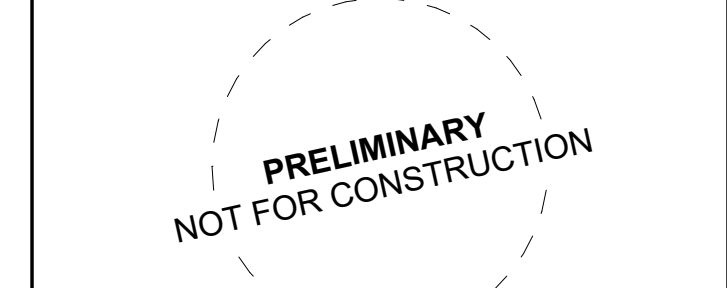
PROJECT No.: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



7 1/12/2024 Addendum No. 07 1 12/01/2023 Addendum No. 01 11/08/2023 For Public Bid No. Date Description Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No.: 20.072 Date: 11.08.2023 Drawn By: JBA/VP/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No.: E-504

PANEL SCHEDULE NOTES:

- 1. CIRCUIT DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL. EXAMPLE: *POWER OUTLET (G) (L) *REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE. 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED. 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND. 5. ALL MATERIALS SHALL BE UL LABELLED. 6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED. 7. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER. 8. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS. 9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

- PANEL SCHEDULE KEYED NOTES: 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 1RP2A

Location: ELEC 1206 Supply From: TR-1RP2 Mounting: Surface Enclosure: NEMA 1

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Motor, Other, Power - General, Receptacle, Non-Continuous.

Notes:

Branch Panel: 1LP2

Location: ELEC 1206 Supply From: 1-MSS Mounting: Surface Enclosure: NEMA 1

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Lighting - Dwelling Unit, Other, Lighting.

Notes:

Branch Panel: 1LSRP2

Location: ELEC 1206 Supply From: 1LSRP5 Mounting: Surface Enclosure: NEMA 1

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Motor, Other, Non-Continuous.

Notes:

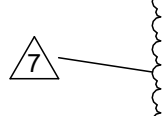
Branch Panel: 1RP2B

Location: ELEC 1206 Supply From: 1RP2A Mounting: Surface Enclosure: NEMA 1

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes Motor, Power - General, Receptacle, Non-Continuous.

Notes:



Branch Panel: 1LP3

Location: ELEC 1303
Supply From: 1-MSS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT		
1	Lighting - 1310-1312,1318,1319	20 A	1	1-#12, 1-#12, 1-#12	3/4"	2395 VA	2344 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - 1310,1312-1317,1351	2	
3	Lighting - 1320,1330-1339,1340,1341	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1569 VA	2355 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - 1320,1322-1329,1342,1343	4	
5	Lighting - 1301,1304-1307	20 A	1	1-#12, 1-#12, 1-#12	3/4"			701 VA	0 VA				1	20 A	SPARE	6
7	SPACE	--	1	--	--	0 VA							1	20 A	SPARE	8
9	SPACE	--	1	--	--	0 VA							1	20 A	SPARE	10
11	SPACE	--	1	--	--								1	--	SPACE	12
13	SPACE	--	1	--	--								1	--	SPACE	14
15	SPACE	--	1	--	--								1	--	SPACE	16
17	SPACE	--	1	--	--								1	--	SPACE	18
19	SPACE	--	1	--	--								1	--	SPACE	20
21	SPACE	--	1	--	--								1	--	SPACE	22
23	SPACE	--	1	--	--								1	--	SPACE	24
25	SPACE	--	1	--	--								1	--	SPACE	26
27	SPACE	--	1	--	--								1	--	SPACE	28
29	SPACE	--	1	--	--								1	--	SPACE	30
						Total Load:	4739 VA	3924 VA	701 VA							
						Total Amps:	19 A	16 A	3 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Dwelling Unit	128 VA	100.00%	128 VA	
Lighting	9242 VA	100.00%	9242 VA	
				Total Conn. Load: 9364 VA
				Total Est. Demand: 9364 VA
				Total Conn.: 11 A
				Total Est. Demand: 11 A

Notes:

Branch Panel: 1RP3B

Location: ELEC 1303
Supply From: 1RP3A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT		
1	RECEPT - ELEVATOR LOBBY 1301	20 A	1	1-#12, 1-#12, 1-#12	3/4"	360 VA	1080 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - BATHROOM / JAN 1304, 1305, 1306, 1307	2	
3	RECEPT - MEETING ROOM 1321	20 A	1	1-#12, 1-#12, 1-#12	3/4"		790 VA	1150 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPTS - ADMIN DIRECTOR 1311	4	
5	RECEPT - PURCHASING OFF 1312	20 A	1	1-#12, 1-#12, 1-#12	3/4"			720 VA	1440 VA	3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECEPT - AFF. ACT. PER. MGMT. 1313 & 1314	6	
7	RECPTS - TRAINING 1315	20 A	1	1-#12, 1-#12, 1-#12	3/4"	1150 VA	1150 VA			3/4"	1-#12, 1-#12, 1-#12	1	0 A	RECEPT - CONFERENCE 1351	8	
9	RECPTS - WORK/COPY 1317	20 A	1	1-#12, 1-#12, 1-#12	3/4"		720 VA	360 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECPTS - SECURE HR STOR 1318	10	
11	MICROWAVE - GALLEY 1319	20 A	1	1-#12, 1-#12, 1-#12	3/4"			1200 VA	6656 VA	1-1/4"	2-#3, 1-#3, 1-#8	2	80 A	HWH-3 - GALLEY 1319	12	
13	RECEPT - GALLEY 1321	20 A	1	1-#12, 1-#12, 1-#12	3/4"	180 VA	6656 VA	180 VA	180 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - GALLEY 1321	14	
15	RECEPT - GALLEY 1321	20 A	1	1-#12, 1-#12, 1-#12	3/4"			720 VA	900 VA	3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPTS - GEN. OPEN OFFICE...	16	
17	RECPTS - GEN. OPEN OFFICE...	0 A	1	1-#12, 1-#12, 1-#12	3/4"			720 VA	900 VA	3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPTS - GEN. OPEN OFFICE 1320	18	
19	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	720 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20	
23	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	22	
25	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	24	
27	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	26	
29	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	28	
31	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	30	
33	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	32	
35	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	1080 VA	180 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	Receptacle COMMUNITY SERVICES OPEN OFFICE 1320	34	
37	COPIER - COPY 1324	20 A	2	2-#12, 1-#12, 1-#12	3/4"	375 VA	180 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ELEC 1303	36	
39	HWH-1 - JANITOR'S CLOSET 1328	35 A	1	1-#8, 1-#8, 1-#10	3/4"			3000 VA	360 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	EF-1-11 - RM 1320, 1321	38	
41	HWH-1 - JANITOR'S CLOSET 1328	35 A	1	1-#8, 1-#8, 1-#10	3/4"			3000 VA	360 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - TRAINING 1315	40	
						Total Load:	16351 VA	9021 VA	20216 VA							
						Total Amps:	146 A	75 A	178 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	46 VA		51 VA	
Receptacle	26310 VA	69.00%	18155 VA	
Non-Continuous	18032 VA	100.00%	18032 VA	
				Total Conn. Load: 45588 VA
				Total Est. Demand: 37438 VA
				Total Conn.: 127 A
				Total Est. Demand: 104 A

Notes:

Branch Panel: 1RP3A

Location: ELEC 1303
Supply From: TR-1RP3
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: Yes

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT		
1	RECPS - ATTNV OFFICES 1338 & 1339	20 A	1	1-#10, 1-#10, 1-#10	3/4"	1440 VA	1440 VA			3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPS - ATTNV OFFICES 1338 & 1337	2	
3	RECPS - ATTNV OFFICE 1335	20 A	1	1-#12, 1-#12, 1-#12	3/4"		720 VA	1150 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPS - COUNTY COUNSEL DIR OFFICE 1334	4	
5	RECPS - ATTNV / DEPUTY OFFICES 1332 & 1333	20 A	1	1-#10, 1-#10, 1-#10	3/4"			1440 VA	1440 VA	3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPS - ATTNV OFFICES 1330 & 1331	6	
7	RECPS - LAW LIBRARY 1329	20 A	1	1-#12, 1-#12, 1-#12	3/4"	970 VA	1440 VA			3/4"	1-#8, 1-#8, 1-#8	1	20 A	RECPS - ATTNV OFFICES 1327 & 1328	8	
9	RECPS - ATTNV OFFICES 1325 & 1326	20 A	1	1-#8, 1-#8, 1-#8	3/4"		1440 VA	1150 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECPS - ADJUSTER OFFICE 1324	10	
11	RECPS - ATTNV OFFICE 1323	20 A	1	1-#12, 1-#12, 1-#12	3/4"			720 VA	790 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - CONF. RM. 1322	12	
13	RECEPT - GALLEY 1340	20 A	1	1-#12, 1-#12, 1-#12	3/4"	180 VA	180 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - GALLEY 1340	14	
15	RECEPT - GALLEY 1340	20 A	1	1-#12, 1-#12, 1-#12	3/4"		180 VA	180 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - GALLEY 1340	16	
17	HWH-2 - GALLEY 1340	80 A	2	2-#3, 1-#3, 1-#8	1-1/4"	6656 VA	540 VA		6656 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - STORAGE ROOMS 1341 & 1342	18	
19	HWH-2 - GALLEY 1340	80 A	2	2-#3, 1-#3, 1-#8	1-1/4"	6656 VA	540 VA		6656 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - COPY ROOM 1343	20	
21	COPIER - COPY 1341	20 A	2	2-#12, 1-#12, 1-#12	3/4"		375 VA	1260 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECEPT - GENERAL OPEN OFFICE 1320	22	
23	COPIER - COPY 1341	20 A	2	2-#12, 1-#12, 1-#12	3/4"			375 VA	1080 VA						24	
25	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	900 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	26	
27	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	900 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	28	
29	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	900 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	30	
31	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	720 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	32	
33	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	20 A	3	3-#12, 1-#12, 1-#12	3/4"	720 VA	1080 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COMMUNITY SERVICES OPEN OFFICE 1320	34	
35	RECEPT - CONF. RM 1322	20 A	1	1-#12, 1-#12, 1-#12	3/4"	360 VA	16351 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - MEETING RM 1321	36	
37	RECEPT - CONF. RM 1321	20 A	1	1-#12, 1-#12, 1-#12	3/4"			720 VA	9021 VA						38	
39	RECEPT - LAW LIBRARY 1329	20 A	1	1-#12, 1-#12, 1-#12	3/4"			360 VA	20216 VA	2"	3-#10, 1-#10, 1-#8	3	150 A	1RP3B	40	
41	RECEPT - LAW LIBRARY 1329	20 A	1	1-#12, 1-#12, 1-#12	3/4"			360 VA	20216 VA						42	
						Total Load:	33337 VA	19976 VA	36677 VA							
						Total Amps:	295 A	166 A	323 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	46 VA		51 VA	
Receptacle	55680 VA	58.96%	32840 VA	
Non-Continuous	33064 VA	100.00%	33064 VA	
				Total Conn. Load: 89990 VA
				Total Est. Demand: 67155 VA
				Total Conn.: 250 A
				Total Est. Demand: 186 A

Notes:

Branch Panel: 1LSLP3

Location: ELEC 1303
Supply From: 1DPLS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	Lighting - EM Fixtures 1301-1307	20 A	1	1-#12, 1-#12, 1-#12	3/4"	216 VA	485 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Fixtures 1410-1417,1420-1422	2
3	Lighting - EM Fixtures 1320,1323-1329,1342,1343	20 A	1	1-#12, 1-#12, 1-#12	3/4"		570 VA	348 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Fixtures 1410,1422,1436-1438	4
5	Lighting - EM Fixtures 1401-1407	20 A	1	1-#12, 1-#12, 1-#12	3/4"			216 VA	396 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting Room - EM Fixtures 1310-1312,1318,1319,1321	6
7	Lighting - EM Fixtures 1430-1435	20 A	1	1-#12, 1-#12, 1-#12	3/										

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK-ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL... 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED... 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION...

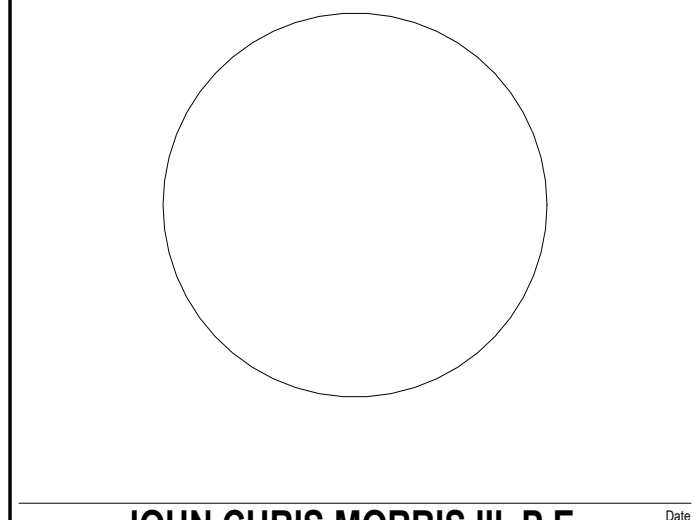
- PANEL SCHEDULE KEYED NOTES: 1. PROVIDE (3) PHASE CONDUCTORS, (2) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 1LSRP3. Location: ELEC 1303. Supply From: 1LSRP5. Mounting: Surface. Enclosure: NEMA 1. Volt: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Table with 30 columns (CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT) and summary rows for Load Classification and Panel Totals.

Branch Panel: 1OSRP3. Location: ELEC 1303. Supply From: TR-1OSRP. Mounting: Surface. Enclosure: NEMA 1. Volt: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Table with 30 columns (CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT) and summary rows for Load Classification and Panel Totals.

Branch Panel: 1LP4. Location: ELEVATOR LOBBY 1401. Supply From: 1-MSS. Mounting: Surface. Enclosure: NEMA 1. Volt: 480/277 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 65kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Table with 30 columns (CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT) and summary rows for Load Classification and Panel Totals.

Branch Panel: 1RP4A. Location: ELEVATOR LOBBY 1401. Supply From: TR-1RP4. Mounting: Surface. Enclosure: NEMA 1. Volt: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22kA. Mains Type: MLO. Mains Rating: 400 A. MCB Rating: 400 A. Table with 30 columns (CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT) and summary rows for Load Classification and Panel Totals.



JOHN CHRIS MORRIS III, P.E.

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY. Includes dates and initials for JLM, JJC, SGS, JCM.

PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN

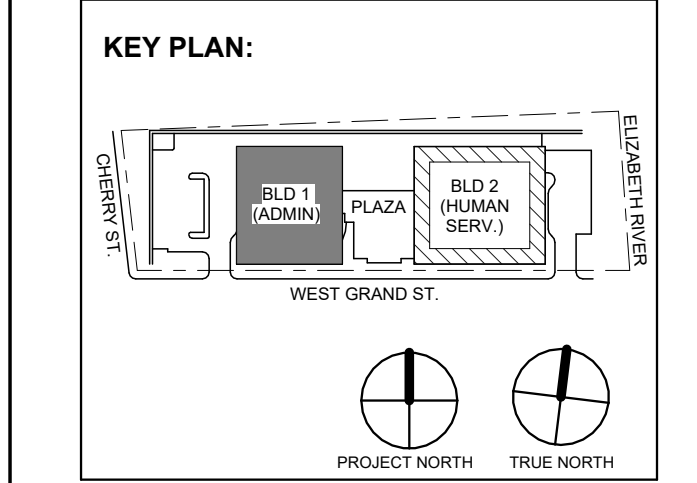


Table with columns: No., Date, Description. Lists revisions and issues.

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Jeffrey D. Venezia, AIA NJ RA AI 00827100



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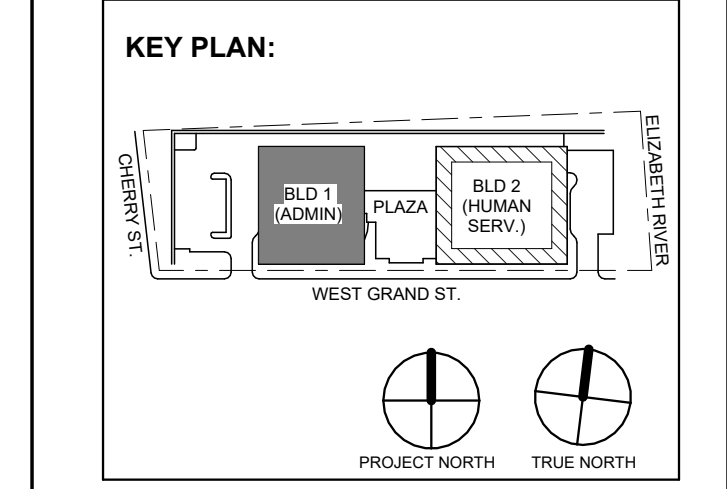
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPK Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No: E-506



Revision table with columns: No., Date, Description, Revisions / Issues

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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No: E-507

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK-ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL. EXAMPLE: "POWER OUTLET (G) (L)" REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE. 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED. 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND. 5. ALL MATERIALS SHALL BE UL LABELED. 6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED. 7. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER. 8. INSTALL NO MORE THAN THE EQUIVALENT OF (6) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS. 9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

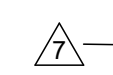
- PANEL SCHEDULE KEYED NOTES: 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 1RP4B. Location: ELEVATOR LOBBY 1401. Supply From: 1RP4A. Mounting: Surface. Enclosure: NEMA 1. Includes circuit schedule table and load classification table.

Branch Panel: 1LSRP4. Location: ELEVATOR LOBBY 1401. Supply From: 1LSRP5. Mounting: Surface. Enclosure: NEMA 1. Includes circuit schedule table and load classification table.

Branch Panel: 1OSRP4. Location: ELEVATOR LOBBY 1401. Supply From: TR-1OSRP. Mounting: Surface. Enclosure: NEMA 1. Includes circuit schedule table and load classification table.

Branch Panel: 1LP5. Location: ELEC 1503. Supply From: 1-MSS. Mounting: Surface. Enclosure: NEMA 1. Includes circuit schedule table and load classification table.



Branch Panel: 1RP5A

Location: ELEC 1503
Supply From: TR-1RP5
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: Yes

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: 500 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	RECP5 - UCIA DIRECTOR 1541	20 A	1	1-#10, 1-#10, 1-#10	3/4"	1150 VA	970 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECP5 - UCIA CONFERENCE 1542	2	
3	RECP5 - DEPUTY CM 1535	20 A	1	1-#10, 1-#10, 1-#10	3/4"		1150 VA	720 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT CM - CONF. ROOM 1533	4	
5	Receptacle CM - CONF. ROOM 1533	20 A	1	1-#8, 1-#8, 1-#8	3/4"			1690 VA	1330 VA	1-#8, 1-#8, 1-#8	1	20 A	RECP5 - COUNTY MGR 1548	6	
7	RECP5 - SPEC. ASST. 1531	20 A	1	1-#12, 1-#12, 1-#12	3/4"	540 VA	1500 VA		3/4"	2-#10, 1-#10, 1-#10	2	20 A	HWH-3 - TOILET 1547	8	
9	FURN FEED - OPEN OFFICE 1540	20 A	3	3-#12, 1-#12, 1-#12	3/4"		1080 VA	1500 VA		3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - OPEN OFFICE 1540	10	
11						1080 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - OPEN OFFICE 1540	12	
13						1080 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - OPEN OFFICE 1540	14	
15	RECEPT - ADMINISTRATIVE SERVICES OPEN OFFICE...	20 A	1	1-#10, 1-#10, 1-#10	3/4"		1080 VA	1080 VA		1-#10, 1-#10, 1-#10	1	20 A	RECEPT - UCIA CONFERENCE 1542	16	
17	RECEPT - ADMINISTRATIVE SERVICES OPEN OFFICE...	20 A	1	1-#10, 1-#10, 1-#10	3/4"		1400 VA	1080 VA		1-#10, 1-#10, 1-#10	1	20 A	RECEPT - UCIA CONFERENCE 1542	18	
19	WATER COOLER - ELEVATOR LOBBY 1501	20 A	1	1-#12, 1-#12, 1-#12	3/4"	260 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - OPEN OFFICE 1540	20	
21	RECEPT - GALLEY 1550	20 A	1	1-#12, 1-#12, 1-#12	3/4"		180 VA	1080 VA		1-#12, 1-#12, 1-#12	1	20 A	FURN FEED - COUNTY MANAGER OPEN OFFICE 1530	22	
23	RECEPT - GALLEY 1550	20 A	1	1-#12, 1-#12, 1-#12	3/4"		180 VA	900 VA		3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - COUNTY MANAGER OPEN OFFICE 1530	24	
25	RECEPT - WKR.M. / COPY 1549	20 A	1	1-#12, 1-#12, 1-#12	3/4"		540 VA	900 VA		1-#12, 1-#12, 1-#12	1	20 A	FURN FEED - COUNTY MANAGER OPEN OFFICE 1530	26	
27	RECEPT - WKR.M. / COPY 1549	20 A	1	1-#10, 1-#10, 1-#10	3/4"			1080 VA	6656 VA	1-1/4"	2-#3, 1-#3, 1-#8	2	80 A	HWH-2 - GALLEY 1550	28
29	RECEPT - WKR.M. / COPY 1549	20 A	1	1-#10, 1-#10, 1-#10	3/4"			1080 VA	6656 VA	1-1/4"	2-#3, 1-#3, 1-#8	2	80 A	HWH-2 - GALLEY 1550	30
31	COPIER - WKR.M. / COPY 1549	20 A	2	2-#12, 1-#12, 1-#12	3/4"	375 VA	6656 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ELEVATOR LOBBY 1500	32	
33						375 VA	360 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ELEVATOR LOBBY 1500	34	
35	CABINET UNIT HEATER (ECUH-1) - ROOFTOP LOBBY 1604	20 A	2	2-#12, 1-#12, 1-#12	3/4"		1500 VA	2500 VA		2-#10, 1-#10, 1-#10	2	30 A	CABINET UNIT HEATER (ECUH-2) - STAIR 01-7 ST01-7	36	
37						1500 VA	2500 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	CABINET UNIT HEATER (ECUH-2) - STAIR 01-7 ST01-7	38	
39	CABINET UNIT HEATER (ECUH-1) - VEST. 1601	20 A	2	2-#12, 1-#12, 1-#12	3/4"		1500 VA	312 VA		2-#12, 1-#12, 1-#12	2	15 A	EXHAUST FANS (EF 1-7) - ELEV. ELO1 & ELO2 ROOF	40	
41						360 VA	360 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - UCIA CONFERENCE 1542	42	
43	RECEPT - ELEVATOR LOBBY 1500	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	720 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT - FINANCE CONF. 1511	44	
45	RECEPT - FINANCE 1518	20 A	1	1-#12, 1-#12, 1-#12	3/4"				3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - FINANCE CONF. 1511	46	
47	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	48	
49	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	50	
51	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	52	
53	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	54	
55	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	56	
57	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	58	
59	SPACE	--	1	--	--	--	--	18880 VA	--	--	1	--	SPACE	60	
61	SPACE	--	1	--	--	23065 VA	--	--	2-1/2"	3-#4/0, 1-#4/0, 1-#4	3	225 A	1RPSB	62	
63	SPACE	--	1	--	--	--	24824 VA	--	--	--	1	--	SPACE	64	
						Total Load:	44456 VA	38601 VA	41168 VA						
						Total Amps:	374 A	322 A	346 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	10941 VA	100.00%	10941 VA	
Heating	16000 VA	100.00%	16000 VA	
Motor	1793 VA	115.66%	2074 VA	
Receptacle	58320 VA	58.57%	34160 VA	
Non-Continuous	37172 VA	100.00%	37172 VA	
				Total Conn. Load: 124226 VA
				Total Est. Demand: 100346 VA
				Total Conn.: 345 A
				Total Est. Demand: 279 A

Notes:

Branch Panel: 1RP5B

Location: ELEC 1503
Supply From: TR-1RP5A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	EXHAUST FAN (EF 1-5) - ROOF	15 A	2	2-#12, 1-#12, 1-#10	3/4"	562 VA	2500 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	CABINET UNIT HEATER (ECUH-2) - STAIR 02-7 ST02-7	2	
3						562 VA	2500 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	CABINET UNIT HEATER (ECUH-2) - STAIR 02-7 ST02-7	4	
5	RECP5 - FINANCE TRAINING 1521	20 A	1	1-#10, 1-#10, 1-#10	3/4"			1330 VA	1440 VA	1-#10, 1-#10, 1-#10	1	20 A	RECP5 - INT. AUDIT 1517 & COMPT. DH OFFICE 1519	6	
7						1080 VA	1150 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECP5 - FIN. DIR. 1543	8	
9	FURN FEED - FINANCE OPEN OFFICE 1510	20 A	3	3-#12, 1-#12, 1-#12	3/4"		1080 VA	1080 VA		3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	10	
11						1080 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	12	
13						1080 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	14	
15	FURN FEED - FINANCE OPEN OFFICE 1510	20 A	3	3-#12, 1-#12, 1-#12	3/4"		1080 VA	1080 VA		3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	16	
17						1080 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	18	
19	RECEPT - REIMB & TREAS DIR OFFICES 1516 & 1515	20 A	1	1-#10, 1-#10, 1-#10	3/4"	1260 VA	1080 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECEPT - PEN & UNASSIGNED OFFICES 151...	20	
21	RECEPT - PEN & UNASSIGNED OFFICES 151...	20 A	1	1-#8, 1-#8, 1-#8	3/4"		1440 VA	1080 VA		1-#8, 1-#8, 1-#8	1	20 A	RECEPT - UCIA CONFERENCE 1542	22	
23	Receptacle S OFFICE 1544	20 A	1	1-#10, 1-#10, 1-#10	3/4"			970 VA	1080 VA	1-#10, 1-#10, 1-#10	1	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	24	
25	RECEPT - UCIA SUITE 1530	20 A	1	1-#12, 1-#12, 1-#12	3/4"	720 VA	1080 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	FURN FEED - FINANCE OPEN OFFICE 1510	26	
27	RECEPT - SECURE HIGH DENSITY STORAGE 1524	20 A	1	1-#12, 1-#12, 1-#12	3/4"		360 VA	6650 VA		1-#12, 1-#12, 1-#12	1	20 A	HWH-2 - GALLEY 1541	28	
29	RECEPT - GALLEY 1541	20 A	1	1-#12, 1-#12, 1-#12	3/4"			180 VA	6650 VA	1-1/4"	2-#3, 1-#3, 1-#8	2	80 A	HWH-2 - GALLEY 1541	30
31	RECEPT - GALLEY 1541	20 A	1	1-#12, 1-#12, 1-#12	3/4"	180 VA	720 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - MTG RM OR STORAGE 1521	32	
33	RECEPT - GALLEY 1541	20 A	1	1-#12, 1-#12, 1-#12	3/4"		180 VA	720 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT - WKR.M. / COPY 1524	34	
35	EF-1-11 - GALLEY 1550	20 A	1	1-#12, 1-#12, 1-#12	3/4"		46 VA	180 VA		1-#12, 1-#12, 1-#12	1	20 A	RECP5 - WKR.M. / COPY 1524	36	
37	RECEPT - CHECK PRINT 1523	20 A	1	1-#12, 1-#12, 1-#12	3/4"	720 VA	375 VA		3/4"	2-#12, 1-#12, 1-#12	2	20 A	RECEPT - WORKROOM / COPY 1522	38	
39	RECP5 - FINANCE OPEN OFFICE 1510	20 A	1	1-#12, 1-#12, 1-#12	3/4"		720 VA	375 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT - WORKROOM / COPY 1522	40	
41	RECP5 - ELEC 1503	20 A	1	1-#12, 1-#12, 1-#12	3/4"			180 VA	3000 VA	1-#8, 1-#8, 1-#10	1	35 A	HWH-1 - JANITOR'S CLOSET 1506	42	
43	RECEPT - ROOF	20 A	1	1-#12, 1-#12, 1-#12	3/4"	900 VA	562 VA		3/4"	2-#12, 1-#12, 1-#12	2	15 A	AHU 1-3-1, 1-3-4, & 1-3-5 - PENTHOUSE	44	
45	RECEPT - ROOF	20 A	1	1-#12, 1-#12, 1-#12	3/4"		720 VA	562 VA		1-#12, 1-#12, 1-#12	1	20 A	AHU 1-3-1, 1-3-4, & 1-3-5 - PENTHOUSE	46	
47	SPLIT SYS. HEAT PUMP (HP 1-4) - ROOF	30 A	2	2-#10, 1-#10, 1-#10	3/4"	2392 VA	180 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - EMR 1605	48	
49						2392 VA	180 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - EMR 1605	50	
51	AC 1-3-2 & 1-3-3 - ELEVATOR MACHINE ROOM	15 A	2	2-#12, 1-#12, 1-#12	3/4"		125 VA	360 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ADM SVCS DIR OFFICE 1521	52	
53							125 VA	360 VA		1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ADM SVCS DIR OFFICE 1521	54	
55	RECEPT - ADM SVCS DIR OFFICE 1521	20 A	1	1-#12, 1-#12, 1-#12	3/4"	360 VA	900 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - EMERGENCY ELEC. ROOM 1602	56	
57	SPACE	--	1	--	--	--	2392 VA	--	--	2-#10, 1-#10, 1-#10	2	30 A	HP-1-7 - RECORDING 1243	58	
59	SPACE	--	1	--	--	--	--	2392 VA	--	--	1	--	SPACE	60	
61	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	62	
63	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	64	
						Total Load:	18880 VA	23065 VA	24824 VA						
						Total Amps:	157 A	198 A	212 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	10941 VA	100.00%	10941 VA	
Heating	5000 VA	100.00%	5000 VA	
Motor	1169 VA	124.02%	1450 VA	
Receptacle	32070 VA	65.59%	21035 VA	
Non-Continuous	17590 VA	100.00%	17590 VA	
				Total Conn. Load: 67770 VA
				Total Est. Demand: 56015 VA
				Total Conn.: 185 A
				Total Est. Demand: 155 A

Notes:

Branch Panel: 1LSLP5

Location: ELEC 1503
Supply From: 1DPLS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT
1	Lighting - EM Fixtures ST01	20 A	1	1-#12, 1-#12, 1-#12	3/4"	242 VA	242 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Fixtures ST02	2
3	Lighting - EM Fixtures 1601-1603	20 A	1	1-#12, 1-#12, 1-#12	3/4"		132 VA	216 VA		1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Fixtures 1500-1507	4
5	Lighting - EM Fixtures 1510-1517-1523	20 A	1	1-#12, 1-#12, 1-#12	3/4"			281 VA	433 VA	1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Fixtures 1510-1516, 1524, 1525	6
7	Lighting - EM Fixtures 1530-1537-1542	20 A	1	1-#12, 1-#12, 1-#12	3/4"	428 VA	180 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - EM Roof Walkpacks	8
9	Lighting - EM Fixtures 1510, 1540, 1541	20 A	1	1-#12, 1-#12, 1-#12										

Branch Panel: 1UPPP4

Location: DATA CENTER 1442
Supply From: Surface
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs:

A.I.C. Rating: 42kA
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"	1200 VA	1200 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	2
3	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	4
5	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"			1200 VA	1200 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	6
7	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"	1200 VA	1200 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	8
9	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	10
11	DATA CENTER 1312 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"			1200 VA	1200 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	12
13	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"	1200 VA	1200 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	14
15	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	16
17	DATA CENTER 1442 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"			1200 VA	1200 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	18
19	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	20	
21	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	22	
23	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	24	
25	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	26	
27	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	28	
29	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	30	
31	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	32	
33	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	34	
35	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	36	
37	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	38	
39	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	40	
41	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	42	
Total Load:						7200 VA	7200 VA	7200 VA							
Total Amps:						60 A	60 A	60 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	21600 VA	73.15%	15800 VA	
				Total Conn. Load: 21600 VA
				Total Est. Demand: 15800 VA
				Total Conn.: 60 A
				Total Est. Demand: 44 A

Distribution Panel: 1EDB

Location: EMERGENCY ELEC. ROOM 1602
Supply From: Surface
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size	Conduit Size	Load	Remarks
1	1-ATS-LS	3	400 A	--	--	40766 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
2	1-ATS-LR	3	400 A	--	--	267048 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
3	1-ATS-OS1	3	800 A	--	--	280714 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
4	1-ATS-OS2	3	400 A	--	--	157890 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
5	FIRE PUMP	3	250 A	--	--	79776 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
6	SDP	3	30 A	--	--	0 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
7	SPACE	1	--	--	--	--	
8	SPACE	1	--	--	--	--	
9	SPACE	1	--	--	--	--	
10	SPACE	1	--	--	--	--	
Total Load:						826194 VA	
Total Amps:						994 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	455158 VA	100.00%	455158 VA	
Heating	36636 VA	100.00%	36636 VA	
Motor	24568 VA	112.85%	27726 VA	
Other	232489 VA	100.00%	232489 VA	
Power - General	19170 VA	100.00%	19170 VA	
Receptacle	32124 VA	65.56%	21062 VA	
Power	4800 VA	100.00%	4800 VA	
Lighting	10434 VA	100.00%	10434 VA	
Non-Continuous	10815 VA	100.00%	10815 VA	
				Total Conn. Load: 826194 VA
				Total Est. Demand: 984 A

Distribution Panel: 1DPLR

Location: EMERGENCY ELEC. ROOM 1602
Supply From: 1-ATS-LR
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size	Conduit Size	Load	Remarks
1	TR-1LRP4	3	125 A	--	--	28580 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
2	Lighting - Emergency Fixtures ST01	1	20 A	--	--	238 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
3	Lighting - Emergency Fixtures ST02	1	20 A	--	--	238 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
4	MAINTENANCE BYPASS TRANS.	3	175 A	--	--	0 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
5	CRAC-1A - DATA CENTER 1312	3	45 A	--	--	33904 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
6	CRAC-1B - DATA CENTER 1312	3	45 A	--	--	33904 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
7	80 VVA UPS System	3	125 A	--	--	80000 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
8	ELEVATOR #1	3	100 A	--	--	33240 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
9	ELEVATOR #2	3	100 A	--	--	33240 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
10	TR-1LRP3	3	50 A	--	--	23704 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
11	SPD	3	30 A	--	--	0 VA	
12	SPACE	1	--	--	--	--	
13	SPACE	1	--	--	--	--	
14	SPACE	1	--	--	--	--	
15	SPACE	1	--	--	--	--	
Total Load:						267048 VA	
Total Amps:						321 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	139072 VA	100.00%	139072 VA	
Other	99040 VA	100.00%	99040 VA	
Receptacle	27600 VA	68.12%	18800 VA	
Lighting	476 VA	100.00%	476 VA	
Non-Continuous	860 VA	100.00%	860 VA	
				Total Conn. Load: 267048 VA
				Total Est. Demand: 258248 VA
				Total Conn.: 321 A
				Total Est. Demand: 311 A

Distribution Panel: 1DPLS

Location: EMERGENCY ELEC. ROOM 1602
Supply From: 1-ATS-LS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size	Conduit Size	Load	Remarks
1	1LSLPG, 1LSLP3 & 1LSLP5	3	100 A	--	--	10280 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
2	TR-1LSRP	3	125 A	--	--	12203 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
3	Air Compressors	3	40 A	--	--	18282 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
4	SPD	3	30 A	--	--	0 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
5	SPARE	3	50 A	--	--	0 VA	
6	SPACE	1	--	--	--	--	
7	SPACE	1	--	--	--	--	
8	SPACE	1	--	--	--	--	
9	SPACE	1	--	--	--	--	
10	SPACE	1	--	--	--	--	
Total Load:						40766 VA	
Total Amps:						49 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	804 VA	115.88%	930 VA	
Other	19205 VA	100.00%	19205 VA	
Receptacle	2544 VA	100.00%	2544 VA	
Lighting	9958 VA	100.00%	9958 VA	
Non-Continuous	8285 VA	100.00%	8255 VA	
				Total Conn. Load: 40766 VA
				Total Est. Demand: 40992 VA
				Total Conn.: 49 A
				Total Est. Demand: 49 A

Distribution Panel: 1DPOS1

Location: EMERGENCY ELEC. ROOM 1602
Supply From: 1-ATS-OS1
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size	Conduit Size	Load	Remarks
1	TR-1OSRP	3	70 A	--	--	44256 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
2	TR-1OSRPR	3	70 A	--	--	23037 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
3	1-OSRPPR	3	200 A	--	--	81125 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
4	RTU-1-4	3	90 A	--	--	59832 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
5	RTU-1-5	3	90 A	--	--	59832 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
6	DWBSP-1	3	30 A	--	--	12632 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
7	SPD	3	60 A	--	--	0 VA	
8	SPARE	3	100 A	--	--	0 VA	
9	SPACE	1	--	--	--	--	
10	SPACE	1	--	--	--	--	
Total Load:						280714 VA	
Total Amps:						338 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	158196 VA	100.00%	158196 VA	
Heating	36636 VA	100.00%	36636 VA	
Motor	23764 VA	113.29%	26922 VA	
Other	34468 VA	100.00%	34468 VA	
Power - General	19170 VA	100.00%	19170 VA	
Receptacle	1980 VA	100.00%	1980 VA	
Power	4800 VA	100.00%	4800 VA	
Non-Continuous	1700 VA	100.00%	1700 VA	
				Total Conn. Load: 280714 VA
				Total Est. Demand: 283872 VA
				Total Conn.: 338 A
				Total Est. Demand: 341 A

Branch Panel: Panel Name

Location: Generator Enclosure
Supply From: 1OSRPR
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42kA
Mains Type: MCB
Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	GENERATOR ENCLOSURE BLOCK HEATER #1	30 A	2	2-#10, 1-#10, 1-#10	3/4"	2500 VA	2500 VA			3/4"	2-#10, 1-#10, 1-#10	2	30 A	GENERATOR ENCLOSURE BLOCK HEATER #2	2
3	GENERATOR ALL-PURPOSE RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		2500 VA	2500 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	GENERATOR BATTERY CHARGER	4
5	SPARE	20 A	1	--	--	0 VA	--	180 VA	1200 VA	3/4"	1-#12, 1-#12, 1-#12	1	20 A	SPACE	6
7	SPARE	20 A	1	--	--	0 VA	--	--	--	--	1	--	SPACE	8	
9	SPACE	20 A	1	--	--	--	--	0 VA	--	--	1	--	SPACE	10	
11	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	12	
13	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	14	
15	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	16	
17	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	18	
19	SPACE	--	1	--	--	--	--	--	--	--	1	--	SPACE	20	
Total Load:						5000 VA	5000 VA	1380 VA							
Total Amps:						46 A	46 A	12 A							



Branch Panel: 1LRRP4

Location: DATA CENTER 1442
Supply From: TR-1LRRP4
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs:

A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	IT ROOM 1302 - GENERAL RECEPT	20 A	1	1-#12, 1-#12, 1-#12	3/4"	540 VA	260 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	ELEVATOR LOBBY 1301 - EWC RECEPT.	2
3	IT ROOM 1302 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	600 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	IT ROOM 1302 - IT RECEPTACLE	4
5	IT ROOM 1302 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	600 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	IT ROOM 1302 - IT RECEPTACLE	6
7	IT ROOM 1302 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"	500 VA	600 VA			3/4"	2-#10, 1-#10, 1-#10	2	30 A	IT ROOM 1302 - IT RECEPTACLE	8
9	IT ROOM 1402 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		360 VA	600 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	IT ROOM 1402 - IT RECEPTACLE	10
11	IT ROOM 1402 - IT RECEPTACLE	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1200 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1302 - IT RECEPTACLE	12
13	IT ROOM 1402 - IT RECEPTACLE	30 A	1	1-#10, 1-#10, 1-#10	3/4"	1200 VA	1200 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1302 - IT RECEPTACLE	14
15	IT ROOM 1402 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	16
17	IT ROOM 1402 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	18
19	IT ROOM 1402 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"	1040 VA	720 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - GENERAL RECEPTACLE	20
21	IT ROOM 1402 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	540 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1402 - IT RECEPTACLE	22
23	DATA CENTER 1502 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - GENERAL RECEPTACLE	24
25	DATA CENTER 1502 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"	1040 VA	1200 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	DATA CENTER 1442 - IT RECEPTACLE	26
27	DATA CENTER 1502 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1502 - IT RECEPTACLE	28
29	DATA CENTER 1502 - IT RECEPTACLE	30 A	2	2-#10, 1-#10, 1-#10	3/4"		1040 VA	1200 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1502 - IT RECEPTACLE	30
31	SPACE	--	1	--	--	540 VA				3/4"	1-#12, 1-#12, 1-#12	1	20 A	IT ROOM 1502 - GENERAL RECEPT	32
33	SPACE	--	1	--	--							1	--	SPACE	34
35	SPACE	--	1	--	--							1	--	SPACE	36
37	SPACE	--	1	--	--							1	--	SPACE	38
39	SPACE	--	1	--	--							1	--	SPACE	40
41	SPACE	--	1	--	--							1	--	SPACE	42
43	SPACE	--	1	--	--							1	--	SPACE	44
45	SPACE	--	1	--	--							1	--	SPACE	46
47	SPACE	--	1	--	--							1	--	SPACE	48
49	SPACE	--	1	--	--							1	--	SPACE	50
51	SPACE	--	1	--	--							1	--	SPACE	52
53	SPACE	--	1	--	--							1	--	SPACE	54
55	SPACE	--	1	--	--							1	--	SPACE	56
57	SPACE	--	1	--	--							1	--	SPACE	58
59	SPACE	--	1	--	--							1	--	SPACE	60
61	SPACE	--	1	--	--							1	--	SPACE	62
63	SPACE	--	1	--	--							1	--	SPACE	64
65	SPACE	--	1	--	--							1	--	SPACE	66
67	SPACE	--	1	--	--							1	--	SPACE	68
69	SPACE	--	1	--	--							1	--	SPACE	70
71	SPACE	--	1	--	--							1	--	SPACE	72
73	SPACE	--	1	--	--							1	--	SPACE	74
75	SPACE	--	1	--	--							1	--	SPACE	76
77	SPACE	--	1	--	--							1	--	SPACE	78
79	SPACE	--	1	--	--							1	--	SPACE	80
81	SPACE	--	1	--	--							1	--	SPACE	82
83	SPACE	--	1	--	--							1	--	SPACE	84
Total Load:						8840 VA	8820 VA	10920 VA							
Total Amps:						74 A	74 A	91 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	10720 VA	100.00%	10720 VA	
Other	17100 VA	79.24%	13550 VA	
Receptacle	760 VA	100.00%	760 VA	
Non-Continuous				
				Total Conn. Load: 28580 VA
				Total Est. Demand: 25030 VA
				Total Conn.: 79 A
				Total Est. Demand: 69 A

Notes:

Distribution Panel: 1DPOS2

Location: EMERGENCY ELEC. ROOM 1602
Supply From: 1-ATS-OS2
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size	Conduit Size	Load	Remarks
1	RTU-1-1	3	70 A	--	--	38226 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
2	RTU-1-2	3	90 A	--	--	59832 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
3	RTU-1-3	3	90 A	--	--	59832 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
4	SPD	3	60 A	--	--	0 VA	Refer to Single Line Diagram for Conduit & Feeder Sizing
5	SPARE	3	100 A	--	--	0 VA	
6	SPACE	1	--	--	--	--	
7	SPACE	1	--	--	--	--	
8	SPACE	1	--	--	--	--	
9	SPACE	1	--	--	--	--	
10	SPACE	1	--	--	--	--	
Total Load:						157890 VA	
Total Amps:						190 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	157890 VA	100.00%	157890 VA	
				Total Conn. Load: 157890 VA
				Total Est. Demand: 157890 VA
				Total Conn.: 190 A
				Total Est. Demand: 190 A

Notes:

Branch Panel: 1OSPPR

Location: BOILER ROOM 1603
Supply From: 1DPOS1
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT		
1	BOILERS (B 1-1, 1-2 & 1-3) - BOILER ROOM 1603	20 A	3	3-#12, 1-#12, 1-#12	3/4"	4157 VA	3878 VA			3/4"	1*	3-#6, 1-#6, 1-#10	3	50 A	HWP 1-2 - BOILER ROOM 1603	2
3	BOILERS (B 1-1, 1-2 & 1-3) - BOILER ROOM 1603	20 A	3	3-#12, 1-#12, 1-#12	3/4"		4157 VA	3878 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-1) - BOILER ROOM 1603	4	
5	BOILERS (B 1-1, 1-2 & 1-3) - BOILER ROOM 1603	20 A	3	3-#12, 1-#12, 1-#12	3/4"		4157 VA	3878 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-1) - BOILER ROOM 1603	6	
7	HWP 1-1 - BOILER ROOM 1603	25 A	3	3-#10, 1-#10, 1-#10	3/4"	3878 VA	831 VA			3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-1) - BOILER ROOM 1603	8	
9	HWP 1-1 - BOILER ROOM 1603	25 A	3	3-#10, 1-#10, 1-#10	3/4"		3878 VA	831 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-1) - BOILER ROOM 1603	10	
11	HWP 1-1 - BOILER ROOM 1603	25 A	3	3-#10, 1-#10, 1-#10	3/4"		3878 VA	831 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-1) - BOILER ROOM 1603	12	
13	PUMP (BP 1-2) - BOILER ROOM 1603	15 A	3	3-#12, 1-#12, 1-#12	3/4"	831 VA	831 VA			3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-3) - BOILER ROOM 1603	14	
15	PUMP (BP 1-2) - BOILER ROOM 1603	15 A	3	3-#12, 1-#12, 1-#12	3/4"		831 VA	831 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-3) - BOILER ROOM 1603	16	
17	PUMP (BP 1-2) - BOILER ROOM 1603	15 A	3	3-#12, 1-#12, 1-#12	3/4"		831 VA	831 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	PUMP (BP 1-3) - BOILER ROOM 1603	18	
19	COND. UNIT (CU-1A) - ROOF	15 A	3	3-#12, 1-#12, 1-#12	3/4"	914 VA	914 VA			3/4"	3-#12, 1-#12, 1-#12	3	15 A	COND. UNIT (CU-1B) - ROOF	20	
21	COND. UNIT (CU-1A) - ROOF	15 A	3	3-#12, 1-#12, 1-#12	3/4"		914 VA	914 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	COND. UNIT (CU-1B) - ROOF	22	
23	COND. UNIT (CU-1A) - ROOF	15 A	3	3-#12, 1-#12, 1-#12	3/4"		914 VA	914 VA		3/4"	3-#12, 1-#12, 1-#12	3	15 A	COND. UNIT (CU-1B) - ROOF	24	
25	SPLIT SYS. HEAT PUMP (HP 1-1) - ROOF	20 A	3	3-#12, 1-#12, 1-#12	3/4"	3603 VA	3603 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	SPLIT SYS. HEAT PUMP (HP 1-2) - ROOF	26	
27	SPLIT SYS. HEAT PUMP (HP 1-1) - ROOF	20 A	3	3-#12, 1-#12, 1-#12	3/4"		3603 VA	3603 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	SPLIT SYS. HEAT PUMP (HP 1-2) - ROOF	28	
29	SPLIT SYS. HEAT PUMP (HP 1-1) - ROOF	20 A	3	3-#12, 1-#12, 1-#12	3/4"		3603 VA	3603 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	SPLIT SYS. HEAT PUMP (HP 1-2) - ROOF	30	
31	SPLIT SYS. HEAT PUMP (HP 1-3) - ROOF	20 A	3	3-#12, 1-#12, 1-#12	3/4"	3603 VA	0 VA			3/4"	3-#12, 1-#12, 1-#12	3	20 A	SPLIT SYS. HEAT PUMP (HP 1-2) - ROOF	32	
33	SPLIT SYS. HEAT PUMP (HP 1-3) - ROOF	20 A	3	3-#12, 1-#12, 1-#12	3/4"		3603 VA	0 VA		3/4"	3-#12, 1-#12, 1-#12	3	20 A	SPLIT SYS. HEAT PUMP (HP 1-2) - ROOF	34	
35	SPACE	--	1	--	--							3	15 A	SPACE	36	
37	SPACE	--	1	--	--							3	15 A	SPACE	38	
39	SPACE	--	1	--	--							3	15 A	SPACE	40	
41	SPACE	--	1	--	--							3	15 A	SPACE	42	
Total Load:						27042 VA	27042 VA	27042 VA								
Total Amps:						98 A	98 A	98 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	37908 VA	100.00%	37908 VA	
Motor	7479 VA	108.33%	8102 VA	
Other	23268 VA	100.00%	23268 VA	
Power - General	12470 VA	100.00%	12470 VA	
				Total Conn. Load: 81125 VA
				Total Est. Demand: 81748 VA
				Total Conn.: 98 A
				Total Est. Demand: 98 A

Notes:

Branch Panel: 1OSRPR

Location: BOILER ROOM 1603
Supply From: TR-1OSRPR
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: Yes

A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip
-----	---------------------	------

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com

NJ Landscape Architecture Certificate No. 21MH0010300 NJ Engineering Certificate of Authorization No. 24GA2801910

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK-ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL... 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED... 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE...

PANEL SCHEDULE KEYED NOTES:

- 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Distribution Panel: 2-MSS

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes a summary table for Load Classification and Panel Totals.

Branch Panel: 2LPG

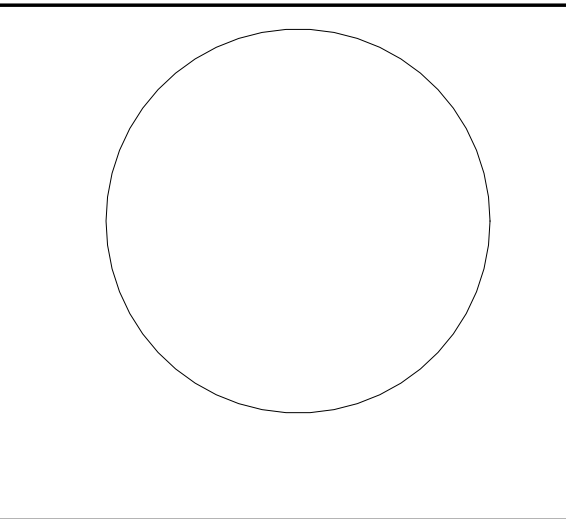
Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes summary table for Load Classification and Panel Totals.

Branch Panel: 2RPG

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes summary table for Load Classification and Panel Totals.

Branch Panel: 2LSLPG

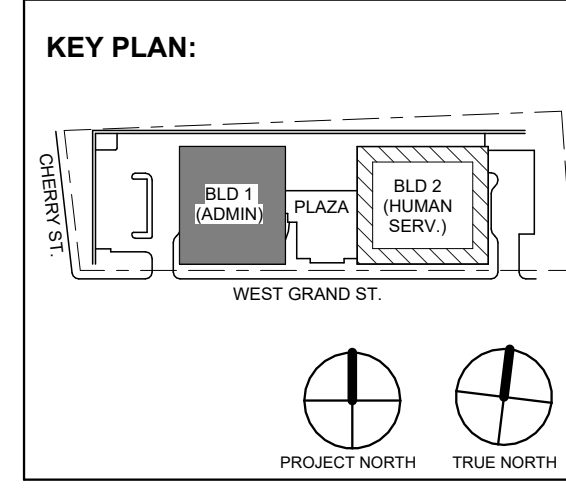
Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes summary table for Load Classification and Panel Totals.



JOHN CHRIS MORRIS III, P.E. LICENSED PROFESSIONAL ENGINEER IN NJ

DESIGNED BY: NJA DRAWN BY: DATE: 11/08/2023 CHECKED BY: JCM

PROJECT NO: DIGA2301 SCALE: AS SHOWN



Revision table with columns: No., Date, Description, Revisions / Issues.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6342

Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

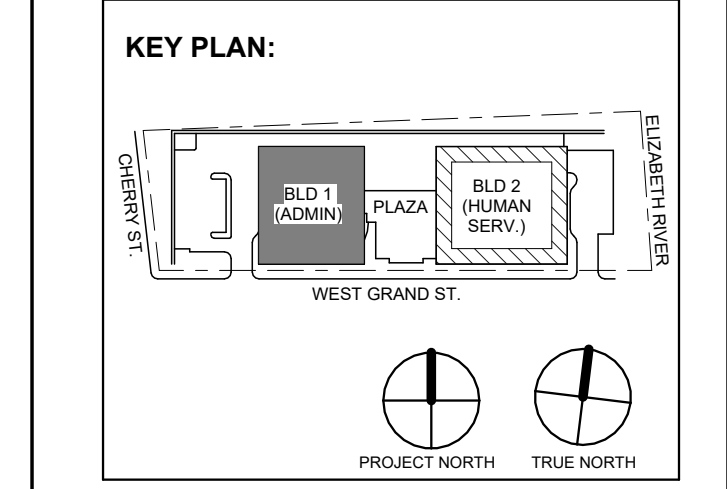
Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBAVPC Checked By: JM/S

Building Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No:

E-511



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for 1.12.2024, 12.15.2023, and 11.08.2023.

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Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPK Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No: E-512

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER, (L) = LOCK-ON DEVICE, (T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL, etc.

PANEL SCHEDULE KEYED NOTES:

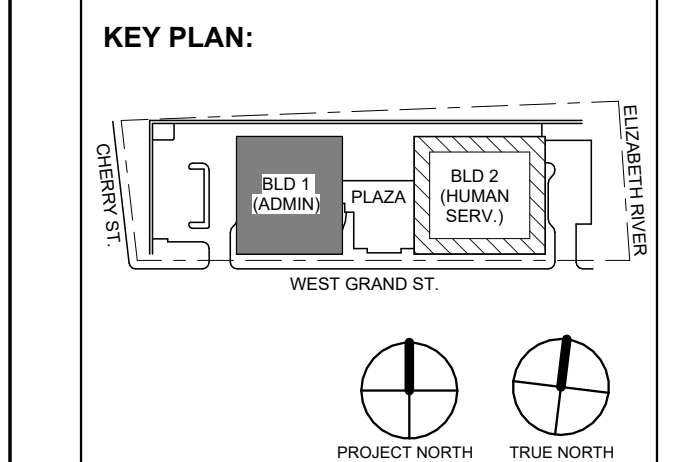
- 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 2LSRPG. Location: ELECTRICAL 2003. Supply From: 2LSRPG. Mounting: Surface. Enclosure: NEMA 1. Includes a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Branch Panel: 2LRRPG. Location: ELECTRICAL 2003. Supply From: TR-2LRRPG. Mounting: Surface. Enclosure: NEMA 1. Includes a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Branch Panel: 2OSRPG. Location: ELECTRICAL 2003. Supply From: TR-OSRPG. Mounting: Surface. Enclosure: NEMA 1. Includes a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.





Revision table with columns for No., Date, and Description.



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Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBAV/PC Checked By: JM/SH Sheet Name:

BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No:

E-513

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK-ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL. EXAMPLE: "POWER OUTLET (G) (L)" REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE. 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED. 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND. 5. ALL MATERIALS SHALL BE UL LABELED. 6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED. 7. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER. 8. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS. 9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

PANEL SCHEDULE KEYED NOTES:

- 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 2RP1A

Location: ELEC 2103 Supply From: TR-2RP1 Mounting: Surface Enclosure: NEMA 1 Volts: 120/208 Wye Phases: 3 Wires: 4 Feed Through Lugs: No A.I.C. Rating: 22kA Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A

Branch Panel: 2RP1A circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Load Classification table for Branch Panel: 2RP1A showing Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Notes:

Branch Panel: 2LP1

Location: ELEC 2103 Supply From: 2LMS2 Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 Feed Through Lugs: No A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 100 A MCB Rating: 50 A

Branch Panel: 2LP1 circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Load Classification table for Branch Panel: 2LP1 showing Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Notes:

Branch Panel: 2LSRP1

Location: ELEC 2103 Supply From: 2LSRP6 Mounting: Surface Enclosure: NEMA 1 Volts: 120/208 Wye Phases: 3 Wires: 4 Feed Through Lugs: No A.I.C. Rating: 22kA Mains Type: MLO Mains Rating: 100 A MCB Rating: 60 A

Branch Panel: 2LSRP1 circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Load Classification table for Branch Panel: 2LSRP1 showing Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Notes:

Branch Panel: 2RP1B

Location: ELEC 2103 Supply From: 2RP1A Mounting: Surface Enclosure: NEMA 1 Volts: 120/208 Wye Phases: 3 Wires: 4 Feed Through Lugs: No A.I.C. Rating: 22kA Mains Type: MLO Mains Rating: 225 A

Branch Panel: 2RP1B circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, and Panel Totals.

Load Classification table for Branch Panel: 2RP1B showing Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Notes:

Branch Panel: 2LP2

Table for Branch Panel 2LP2 including location, supply, mounting, enclosure, and a detailed circuit load table with columns for circuit description, trip, poles, wire size, conduit size, and demand.

Branch Panel: 2RP2B

Table for Branch Panel 2RP2B including location, supply, mounting, enclosure, and a detailed circuit load table with columns for circuit description, trip, poles, wire size, conduit size, and demand.

Branch Panel: 2RP2A

Table for Branch Panel 2RP2A including location, supply, mounting, enclosure, and a detailed circuit load table with columns for circuit description, trip, poles, wire size, conduit size, and demand.

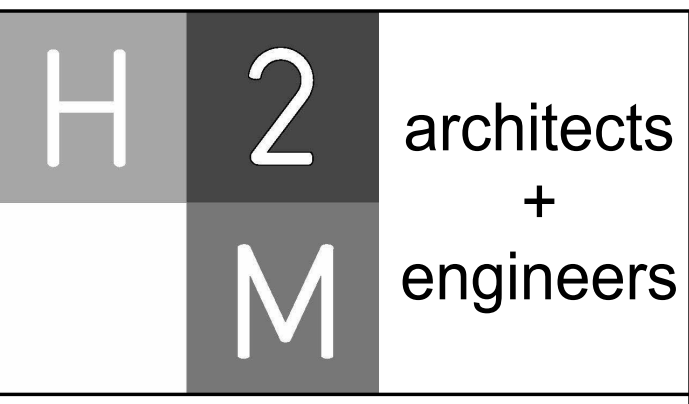
Branch Panel: 2LSLP2

Table for Branch Panel 2LSLP2 including location, supply, mounting, enclosure, and a detailed circuit load table with columns for circuit description, trip, poles, wire size, conduit size, and demand.

PANEL SCHEDULE NOTES:

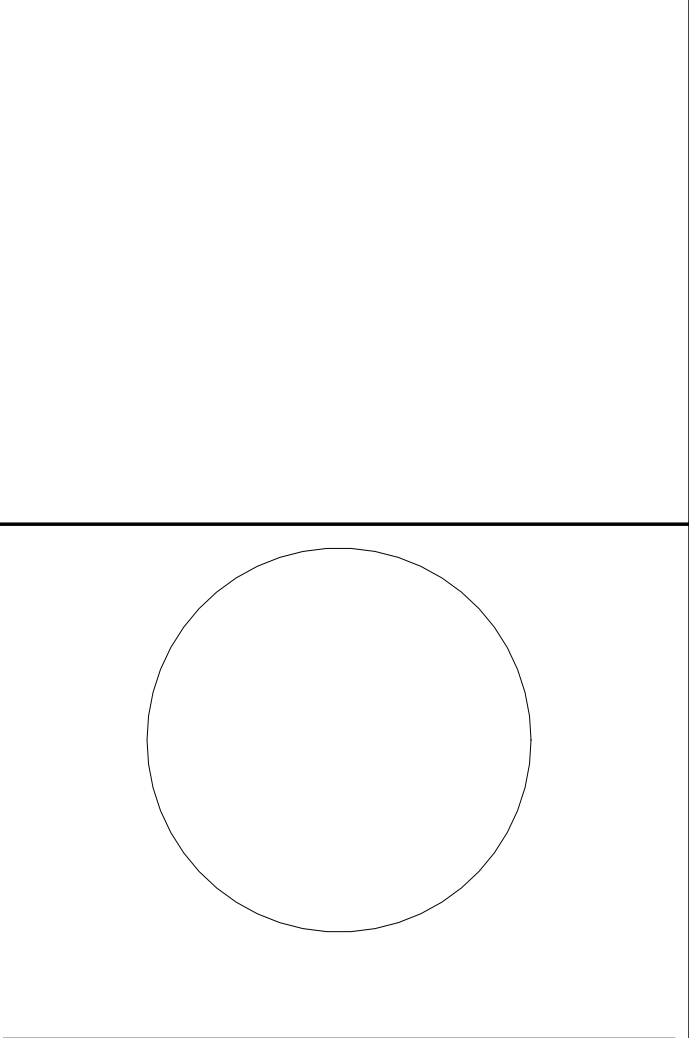
- List of panel schedule notes including circuit designations, wire size requirements, and protection rules.

- Panel schedule keyed notes providing specific details for phase conductors, neutral conductors, and ground conductors.



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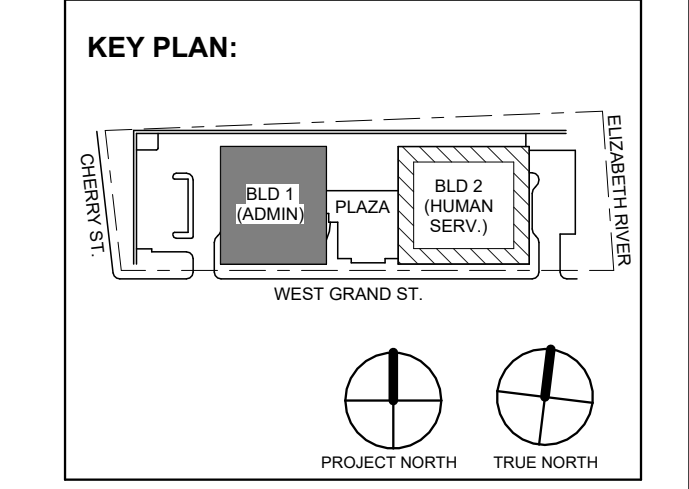
NJ Landscape Architecture Certificate No.: 21MH00010300 NJ Engineering Certificate of Authorization No.: 24GA28019100



JOHN CHRIS MORRIS III, P.E. NJ Professional Engineer License No. 12688

DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVIEWED BY: JCM

PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revision table with columns for No., Date, Description, and Revisions / Issues.

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Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBAV/PCP Checked By: JM/SH

BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No: E-514

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5. ALL MATERIALS SHALL BE UL LABELED.
6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED.
7. EC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER.
8. INSTALL NO MORE THAN THE EQUIVALENT OF (9) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS.
9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

- PANEL SCHEDULE KEYED NOTES:
(1) PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

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NJ Landscape Architecture Certificate No.: 21MH00010300
NJ Engineering Certificate of Authorization No.: 24GA28019100

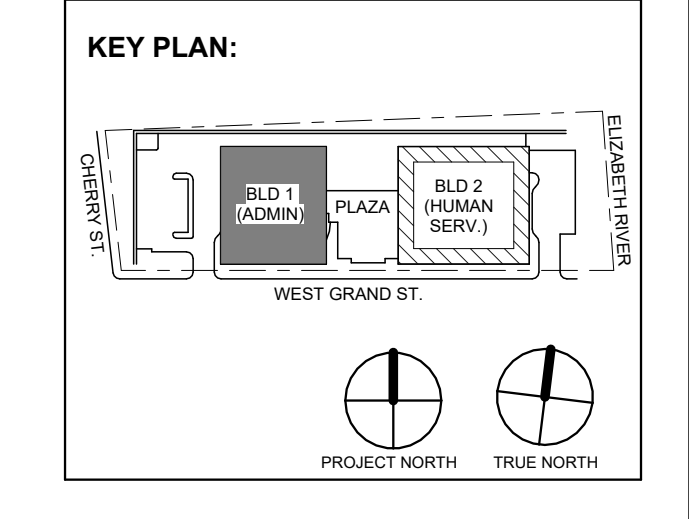
JOHN CHRIS MORRIS III, P.E.
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DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVIEWED BY: JCM
PROJECT NO: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN

Branch Panel: 2LSRP2
Location: IT 2202
Supply From: 2LSRP2
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 60 A
Table with 15 columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes Load Classification and Panel Totals.

Branch Panel: 2OSRP2
Location: IT 2202
Supply From: TR-OSRP2
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A
Table with 15 columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes Load Classification and Panel Totals.

Branch Panel: 2LP3
Location: ELEVATOR LOBBY 2301
Supply From: 2LMS3
Mounting: Surface
Enclosure: NEMA 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A
Table with 15 columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes Load Classification and Panel Totals.

Branch Panel: 2RP3A
Location: ELEVATOR LOBBY 2301
Supply From: TR-2RP3
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 500 A
Table with 15 columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes Load Classification and Panel Totals.



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for Addendum No. 07, 03, 01 and For Public Bid.

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ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
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NJ RA AI 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

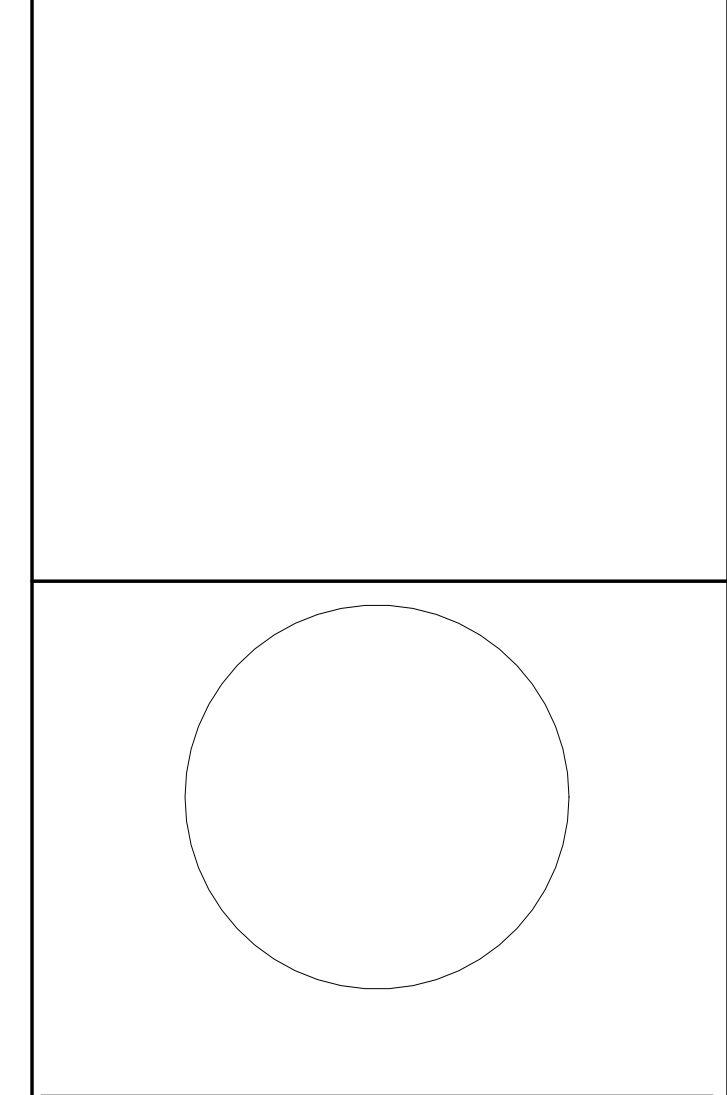
Sheet No: E-515

PANEL SCHEDULE NOTES:

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(L) = LOCK-ON DEVICE
(T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL
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DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVISIONS BY: JCM
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN

Branch Panel: 2RP3B
Location: ELEVATOR LOBBY 2301
Supply From: 2RP3A
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feeds Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 60 A

Branch Panel: 2LSRP3
Location: ELEVATOR LOBBY 2301
Supply From: 2LSRP6
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feeds Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 60 A

Load Classification
Connected Load
Demand Factor
Estimated Demand
Panel Totals
Total Conn. Load: 1650 VA
Total Est. Demand: 1650 VA

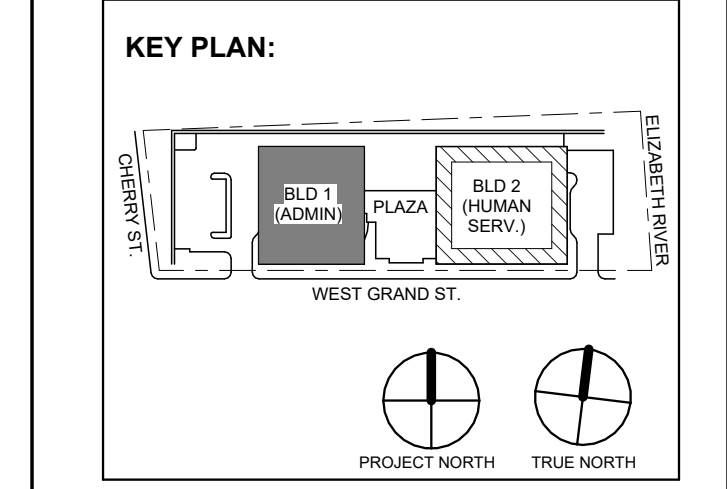
Load Classification
Connected Load
Demand Factor
Estimated Demand
Panel Totals
Total Conn. Load: 1650 VA
Total Est. Demand: 1650 VA

Branch Panel: 2LP4
Location: ELEVATOR LOBBY 2401
Supply From: 2-MSS
Mounting: Surface
Enclosure: NEMA 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Feeds Through Lugs: No
A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

Branch Panel: 2RP4A
Location: ELEVATOR LOBBY 2401
Supply From: TR-2RP4
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feeds Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 500 A

Load Classification
Connected Load
Demand Factor
Estimated Demand
Panel Totals
Total Conn. Load: 13199 VA
Total Est. Demand: 8156 VA

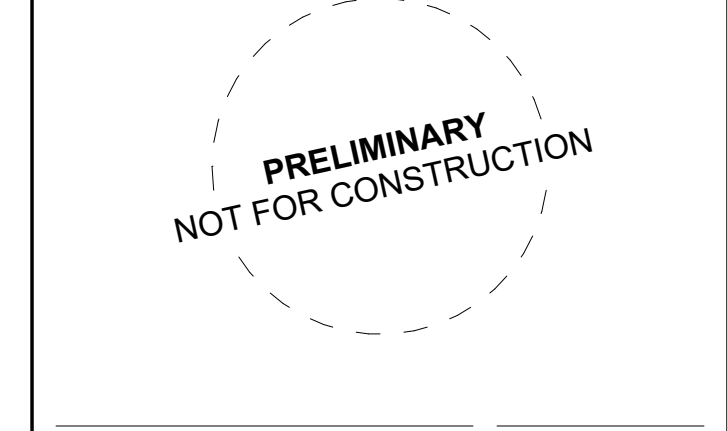
Load Classification
Connected Load
Demand Factor
Estimated Demand
Panel Totals
Total Conn. Load: 93304 VA
Total Est. Demand: 363 A



Revisions / Issues
7 1.12.2024 Addendum No. 07
3 12.15.2023 Addendum No. 03
1 12.01.2023 Addendum No. 01
1 11.08.2023 For Public Bid

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ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6342
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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/AVPC
Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No: E-516

Branch Panel: 2RP6B

Location: ELEVATOR LOBBY 2601
Supply From: 2RP6A
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 225 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

Notes:

Branch Panel: 2RP6A

Location: ELEVATOR LOBBY 2601
Supply From: TR-2RP6
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

Notes:

Branch Panel: 2LP6

Location: ELEVATOR LOBBY 2601
Supply From: 2-MSS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

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Notes:

Branch Panel: 2LSRP6

Location: ELEVATOR LOBBY 2601
Supply From: TR-2LSRP
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No

A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

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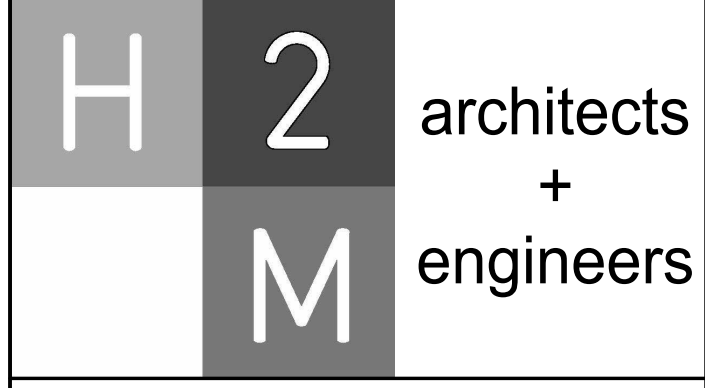
Notes:

PANEL SCHEDULE NOTES:

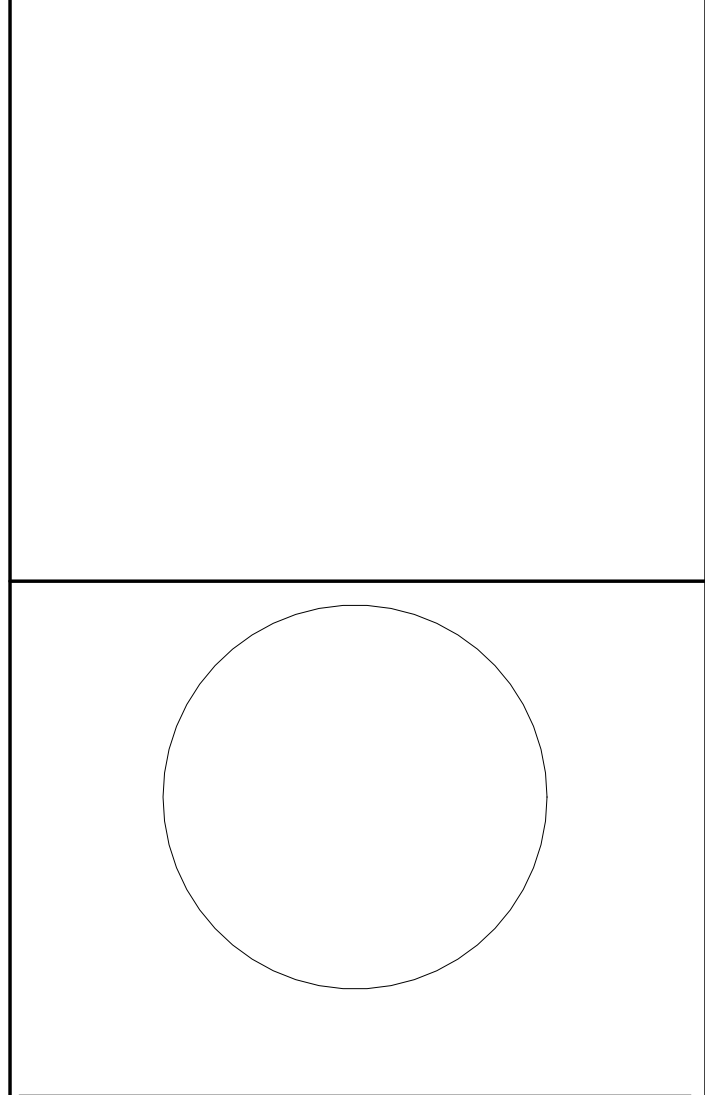
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9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

PANEL SCHEDULE KEYED NOTES:

- (1) PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.



H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
NJ Landscape Architecture Certificate No.: 21MH0010300
NJ Engineering Certificate of Authorization No.: 24GA28019100



JOHN CHRIS MORRIS III, P.E.

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Table with columns: PROJECT NO., DATE, SCALE.

Table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

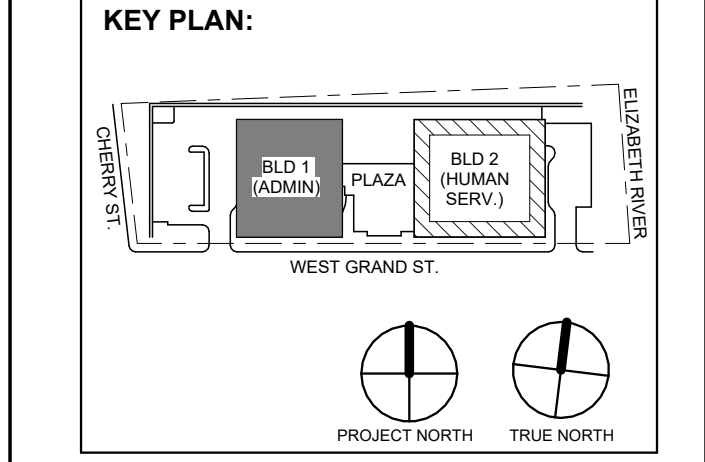
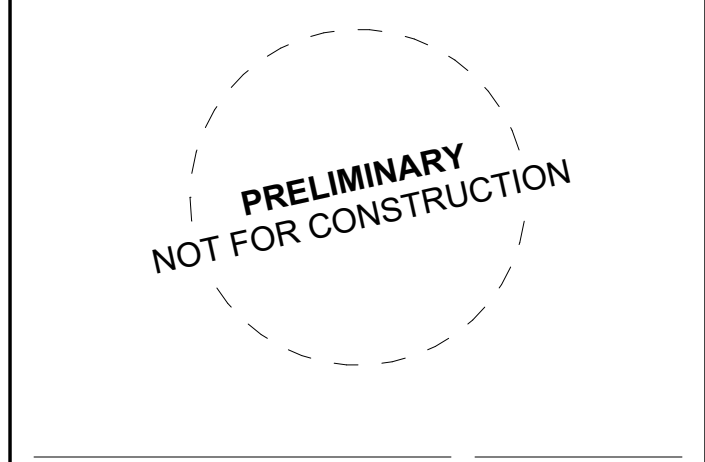


Table with columns: No., Date, Description, Revisions / Issues.

DIGroupArchitecture

ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
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Jeffrey D. Venezia, AIA
NJ RA AI 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX

81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information: Project No: 20.072, Date: 11.08.2023, Drawn By: JBA/AVPC, Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No:

E-519

PANEL SCHEDULE NOTES:

- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER (L) = LOCK ON DEVICE (T) = CIRCUIT CONTROLLED THROUGH TIMELOCK AND PHOTOCELL. EXAMPLE: "POWER OUTLET (G) (L)" REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE. 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED. 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND. 5. ALL MATERIALS SHALL BE UL LABELED. 6. CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GFCI PROTECTED. 7. EC TO COORDINATE PANEL, SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER. 8. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS. 9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

PANEL SCHEDULE KEYED NOTES:

- 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Distribution Panel: 2EDB

Location: EMERGENCY ELEC. ROOM 2702 Supply From: 2-ATS-LS Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 1600 A MCB Rating: 1600 A

Table with 8 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes load classification summary at the bottom.

Distribution Panel: 2DPLS

Location: EMERGENCY ELEC. ROOM 2702 Supply From: 2-ATS-LS Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 250 A MCB Rating: 250 A

Table with 8 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes load classification summary at the bottom.

Distribution Panel: 2DPLR

Location: EMERGENCY ELEC. ROOM 2702 Supply From: 2-ATS-LR Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A

Table with 8 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes load classification summary at the bottom.

Distribution Panel: 2DPOS1

Location: EMERGENCY ELEC. ROOM 2702 Supply From: 2-ATS-OS1 Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 800 A MCB Rating: 800 A

Table with 8 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes load classification summary at the bottom.

Distribution Panel: 2DPOS2

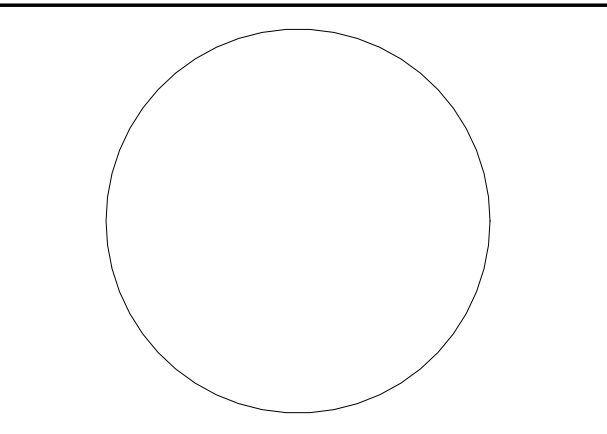
Location: EMERGENCY ELEC. ROOM 2702 Supply From: 2-ATS-OS2 Mounting: Surface Enclosure: NEMA 1 Volts: 480/277 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 800 A MCB Rating: 800 A

Table with 8 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size, Conduit Size, Load, Remarks. Includes load classification summary at the bottom.

Branch Panel: 2-GP

Location: Space 2960 Supply From: Mounting: Surface Enclosure: NEMA-3R Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating: 65kA Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A

Table with 14 columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification summary at the bottom.



JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER No. 36386

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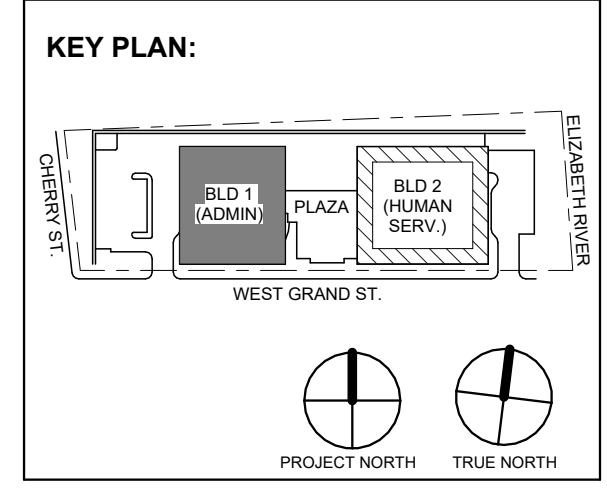


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Jeffrey D. Venezia, AIA NJ RA #I 00827100



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Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH Sheet Name:

BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No:

E-520

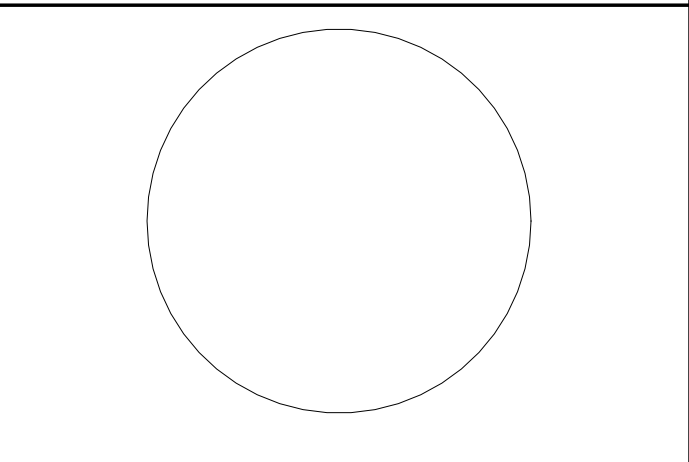
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PANEL SCHEDULE KEYED NOTES:

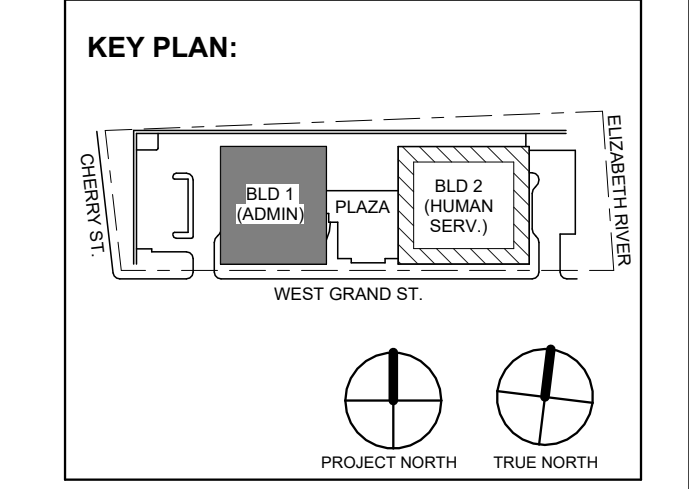
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119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
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JOHN CHRIS MORRIS III, P.E.
ALTERNATE PROFESSIONAL DESIGNER (A.P.D.)
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Branch Panel: 2LRRP3

Location: ELEVATOR LOBBY 2301
Supply From: TR-2LRRP3
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

Notes:

Branch Panel: 2OSPPR

Location: BOILER ROOM 2703
Supply From: 2DPOS1
Mounting: Surface
Enclosure: NEMA 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

Notes:

Branch Panel: 2SP1

Location: YOUTH SERVICES OPEN...
Supply From: Recessed
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals.

Notes:

Branch Panel: 2OSRPR

Location: BOILER ROOM 2703
Supply From: TR-2OSRPR
Mounting: Surface
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Through Lugs: No
A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Table with columns: CKT, Circuit Description, Trip, Poles, Wire Size (H,N,G), Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, CKT. Includes load classification and totals.

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DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
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Jeffrey D. Venezia, AIA
NJ RA AI 00827100



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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBAV/PC
Checked By: JM/SJH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No: E-521

