

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

Jeffrey D. Venezia, AIA NJ RA AI 00827100

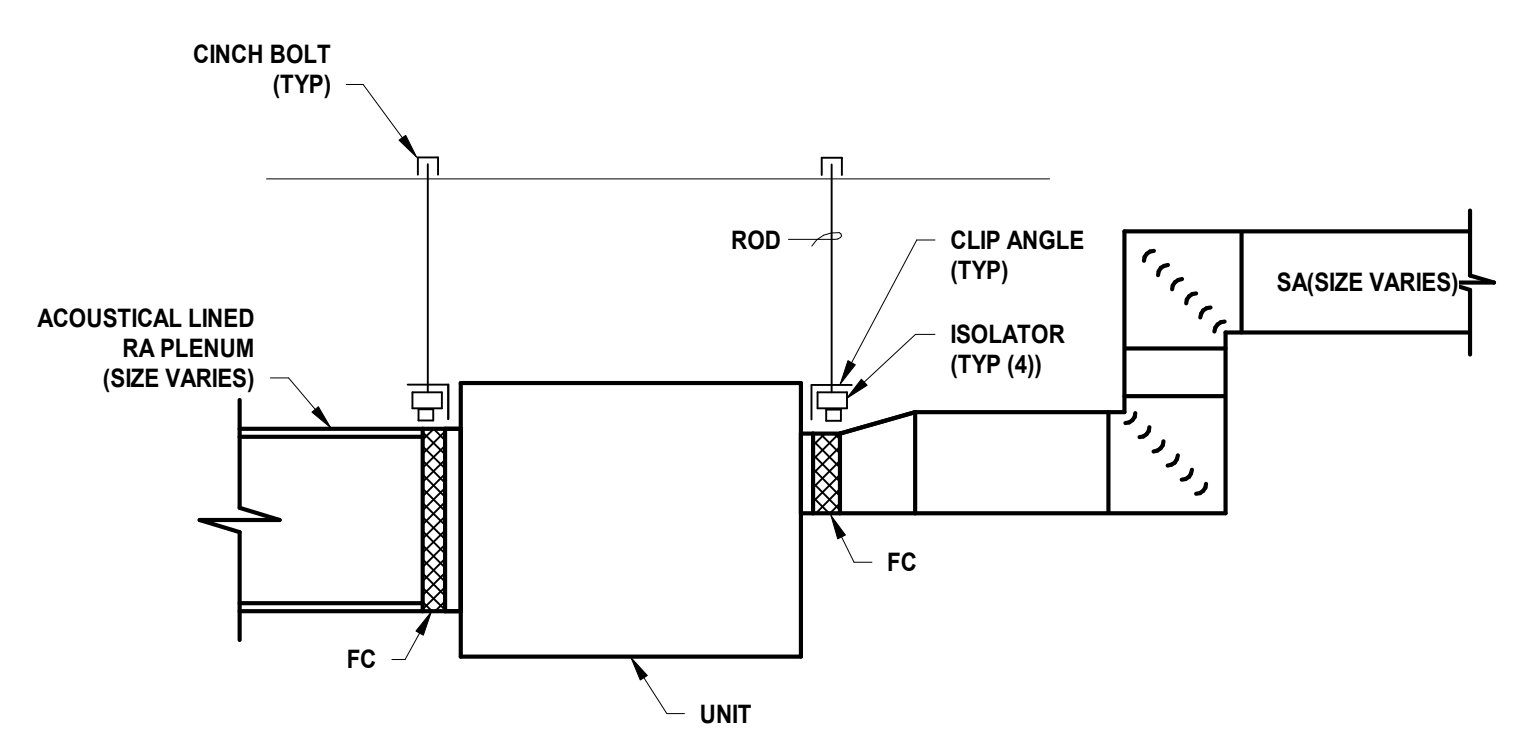
UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 31 & 33 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

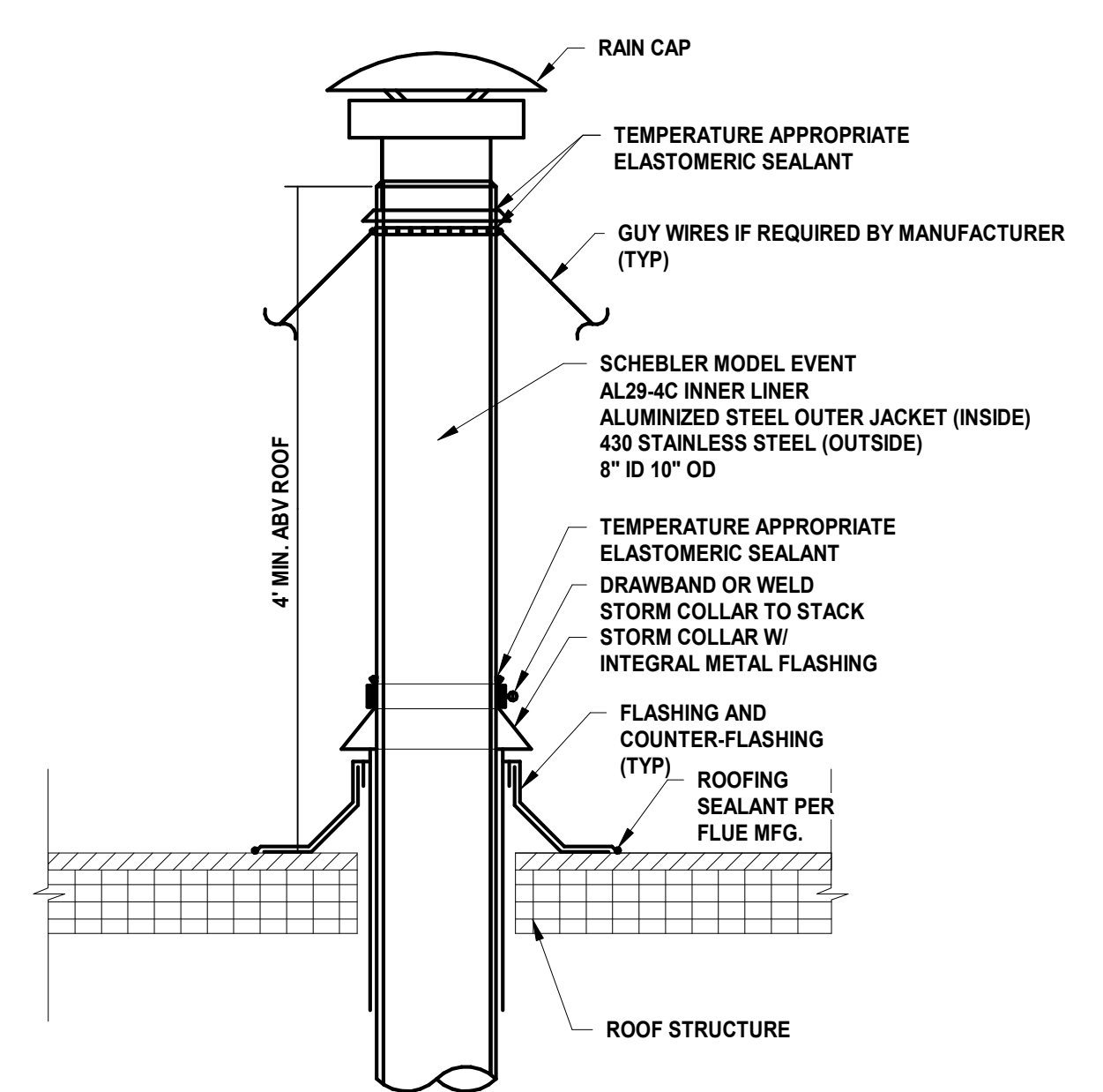
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

MECHANICAL DETAILS (3 OF 3)

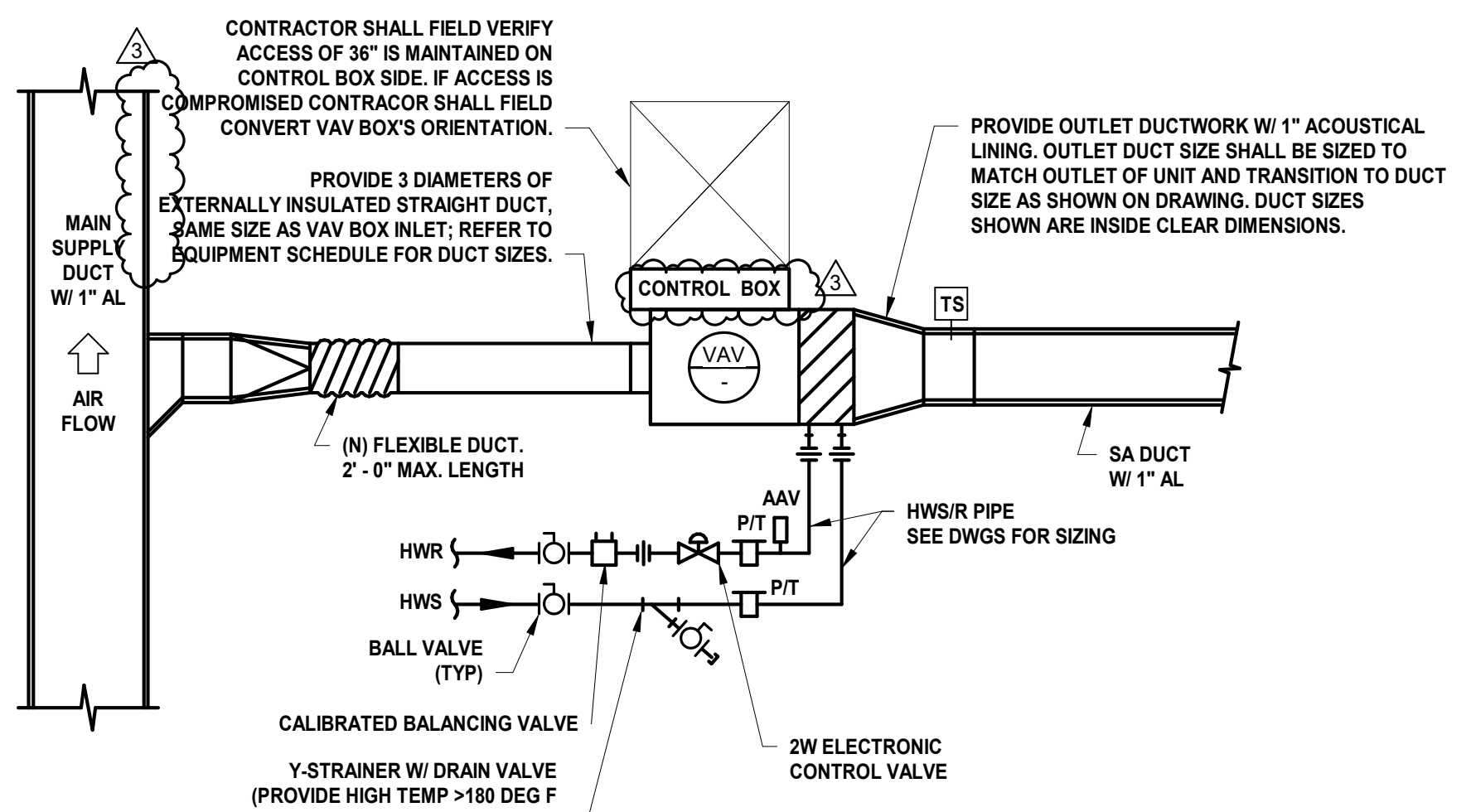
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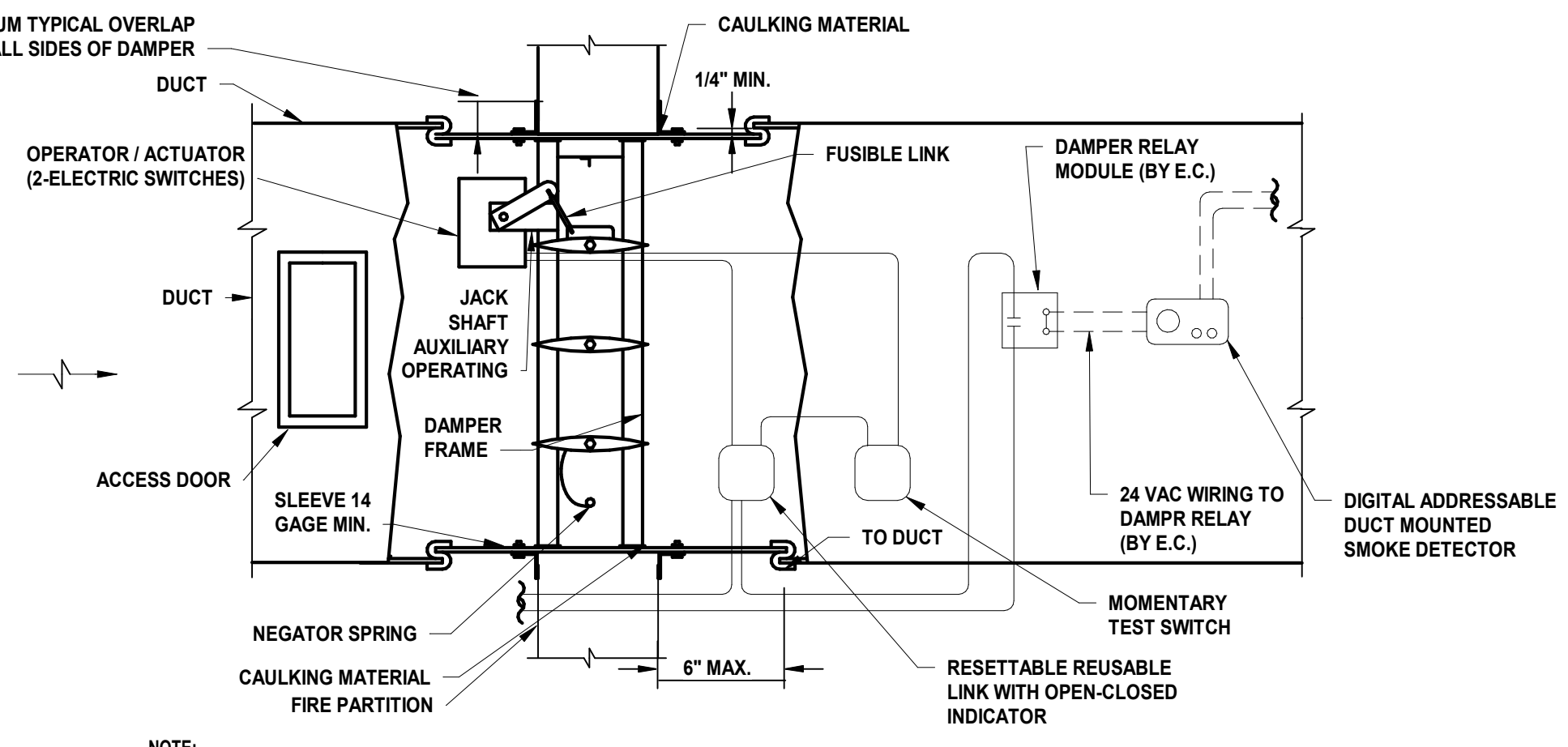
3 SUSPENDED UNIT SUPPORT DETAIL SCALE: N.T.S.



2 VENTING STACK DETAIL AT ROOF PENETRATION SCALE: N.T.S.

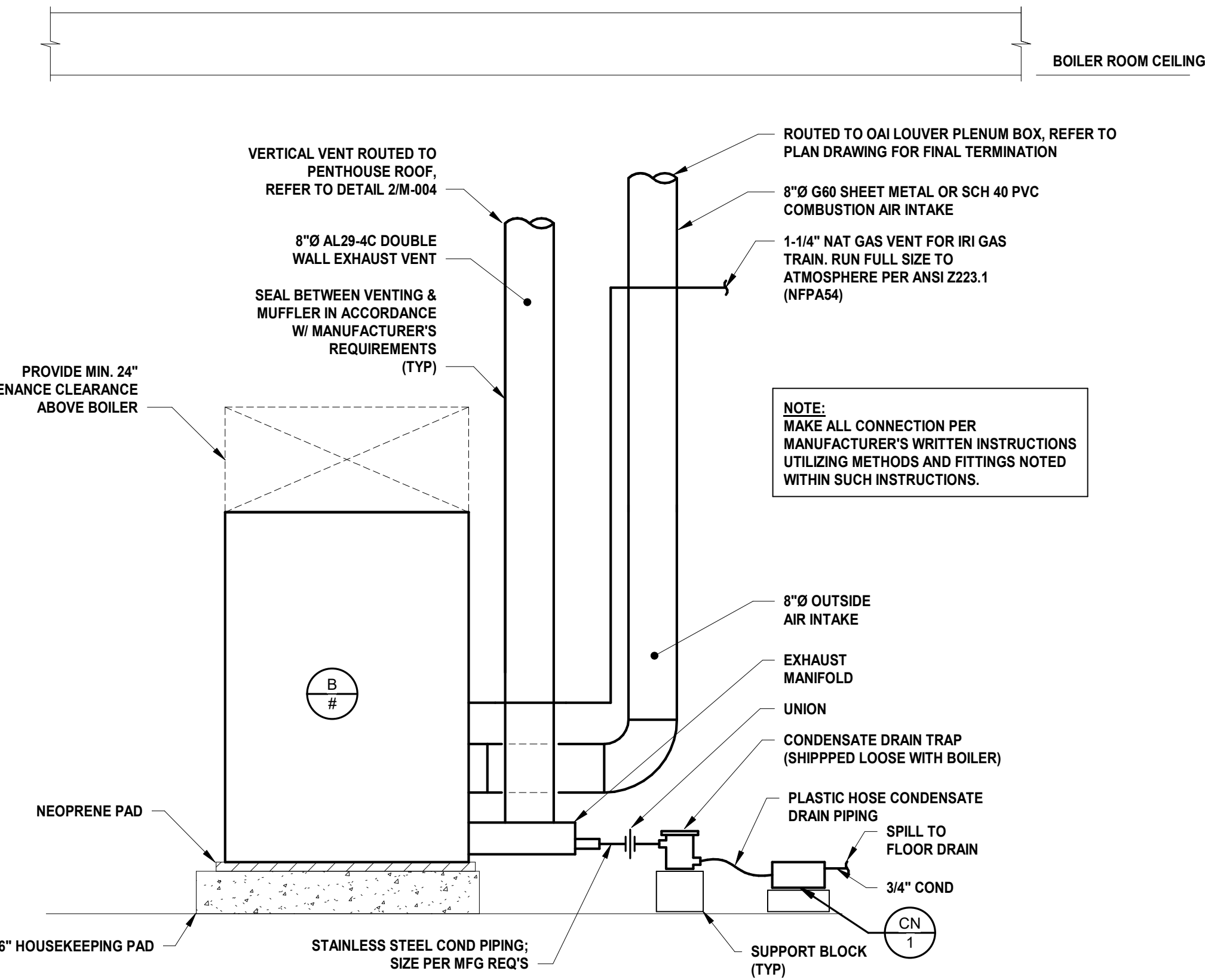


6 SINGLE DUCT VAV BOX DETAIL W/ INTEGRAL REHEAT COIL SCALE: N.T.S.



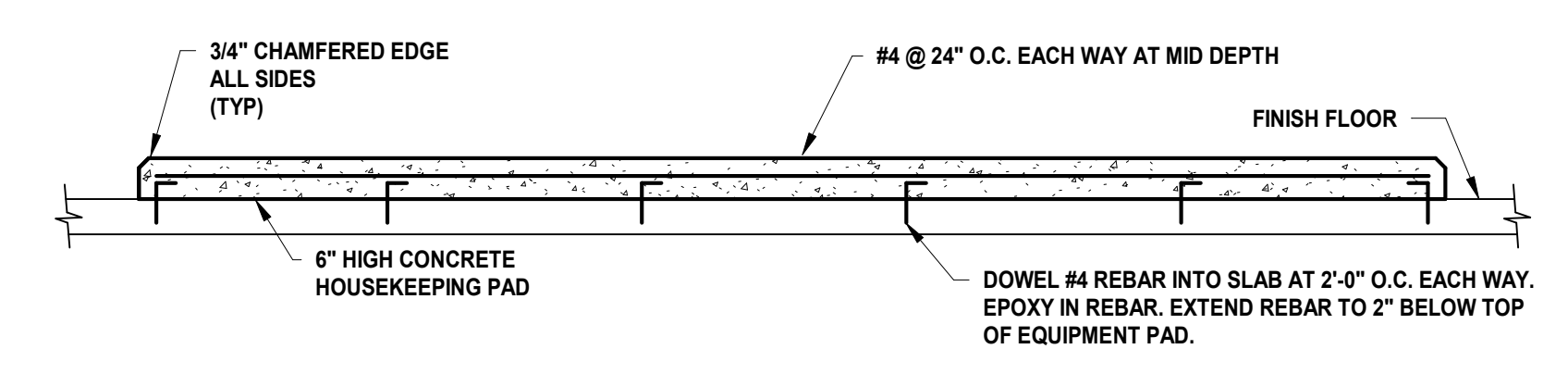
5 COMBINATION FIRE/SMOKE DAMPER DETAIL SCALE: N.T.S.

- NOTES: 1. CONTRACTOR SHALL INSTALL ELECTRIC ACTUATED, VAV SHUTOFF BOX WITH INTEGRAL REHEAT COIL AND DDC CONTROLS AS INDICATED AND SCHEDULED ON PLANS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.



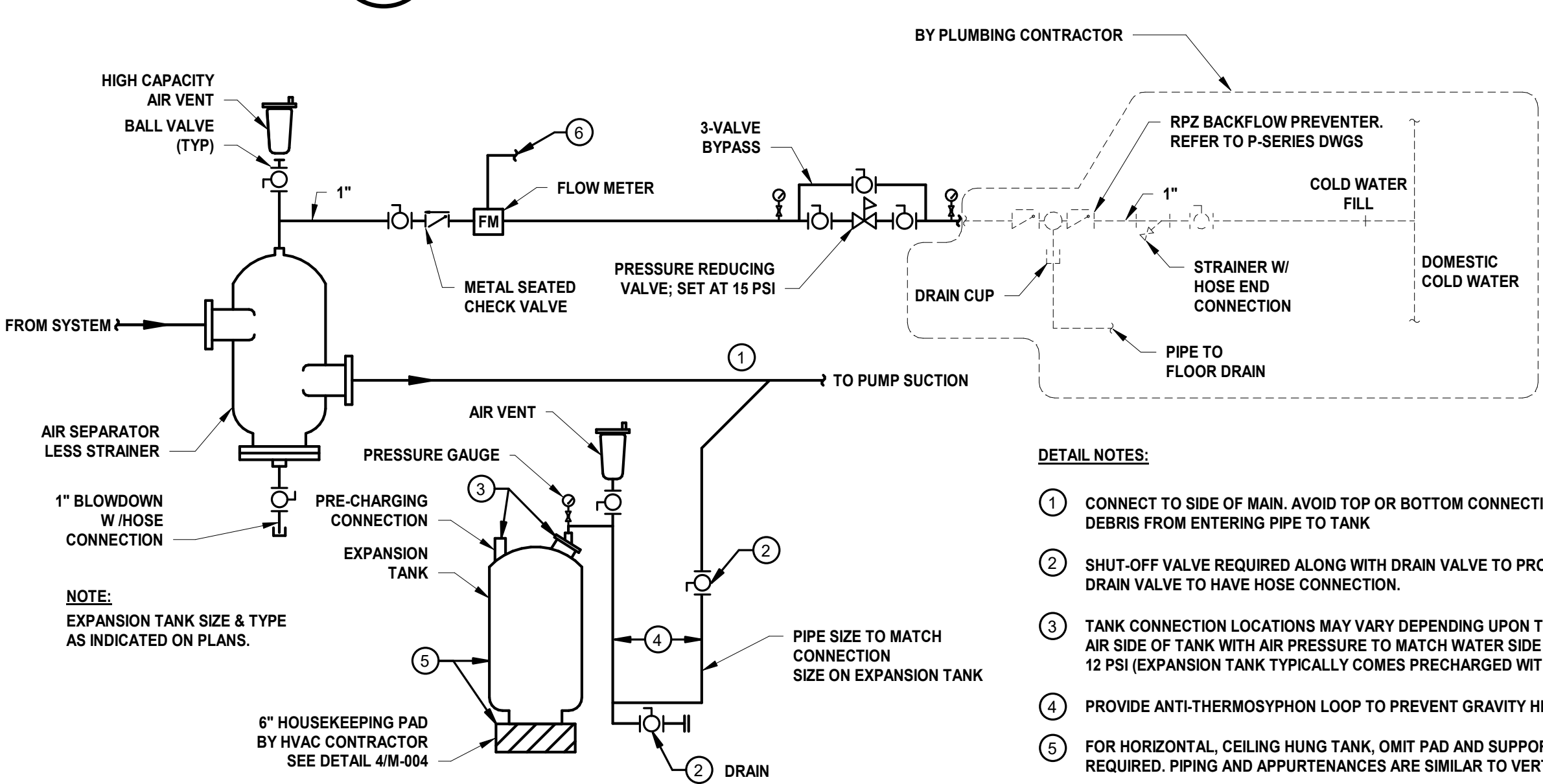
1 VENTING & CONDENSATE FOR BMK 2500/3000 DETAIL SCALE: N.T.S.

- NOTES: 1. INSTALL AERCO CONDENSATE DRAIN TRAP (SHIPPED LOOSE WITH BOILER) PER MANUFACTURER'S IOM MANUAL ADJACENT TO EACH BOILER. SUPPORT AS NECESSARY TO INSTALL DRAIN TRAP LEVEL, PLUMB AND JUST BELOW BOILER EXHAUST MANIFOLD OUTLET.



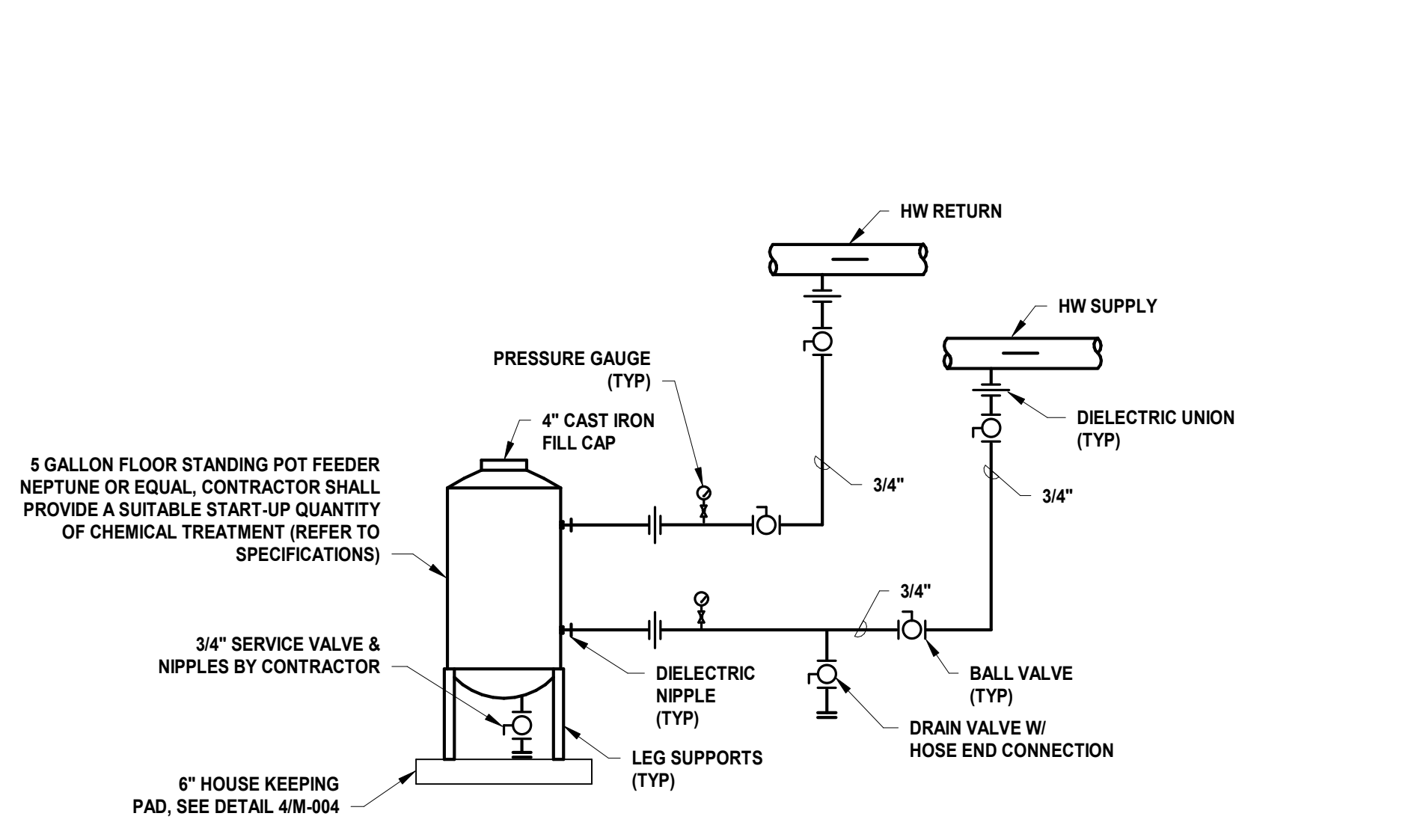
4 CONCRETE HOUSE KEEPING PAD DETAIL SCALE: N.T.S.

- NOTES: 1. ALL CEMENT SHALL CONFORM TO ASTM C-150, TYPE II



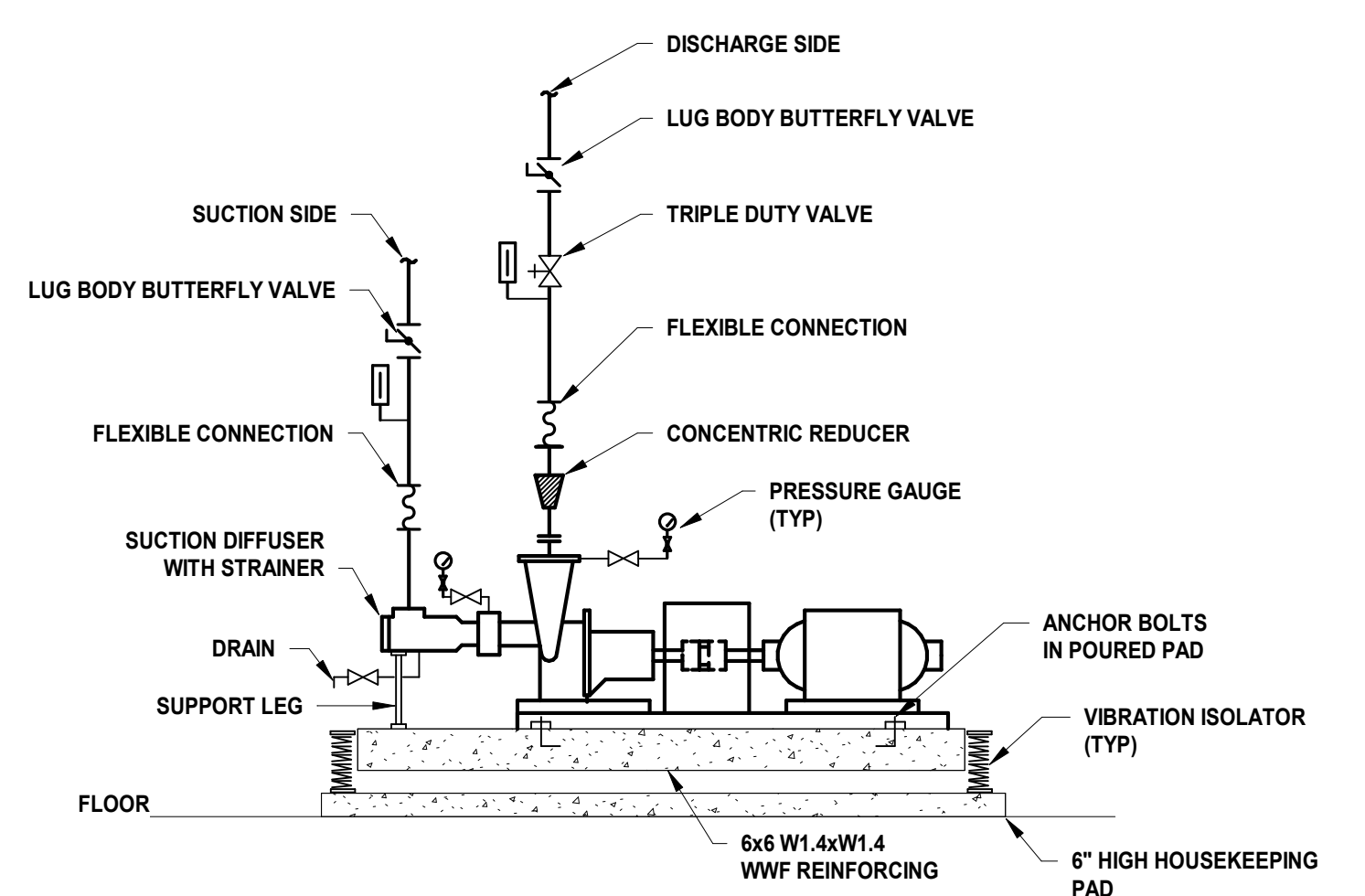
8 AIR SEPARATOR, EXPANSION TANK, AND MAKE-UP WATER PIPING DETAIL SCALE: N.T.S.

- DETAIL NOTES: 1. CONNECT TO SIDE OF MAIN. AVOID TOP OR BOTTOM CONNECTION TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK.



7 CHEMICAL BYPASS FEEDER DETAIL SCALE: N.T.S.

- NOTE: 1. CONTRACTOR TO IDENTIFY START-UP DIFFERENTIAL ACROSS "CLEAN" FEEDER AND PROVIDE READING ON NAMEPLATE FOR FUTURE REFERENCE BY OWNER.

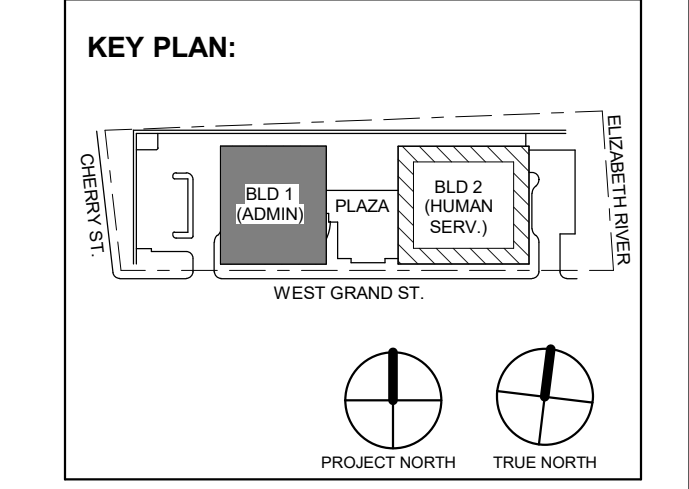


9 BASE MOUNTED END SUCTION PUMP DETAIL - W/ VIBRATION ISOLATION SCALE: N.T.S.

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.
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 - DUCTWORK SYSTEM NOTES:
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 - CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
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 - 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



3 12/15/2023 Addendum No. 3
11/08/2023 For Public Bid
No. Date Description
Revisions / Issues

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

Jeffrey D. Venezia, AIA
NJ RA AI 05827100

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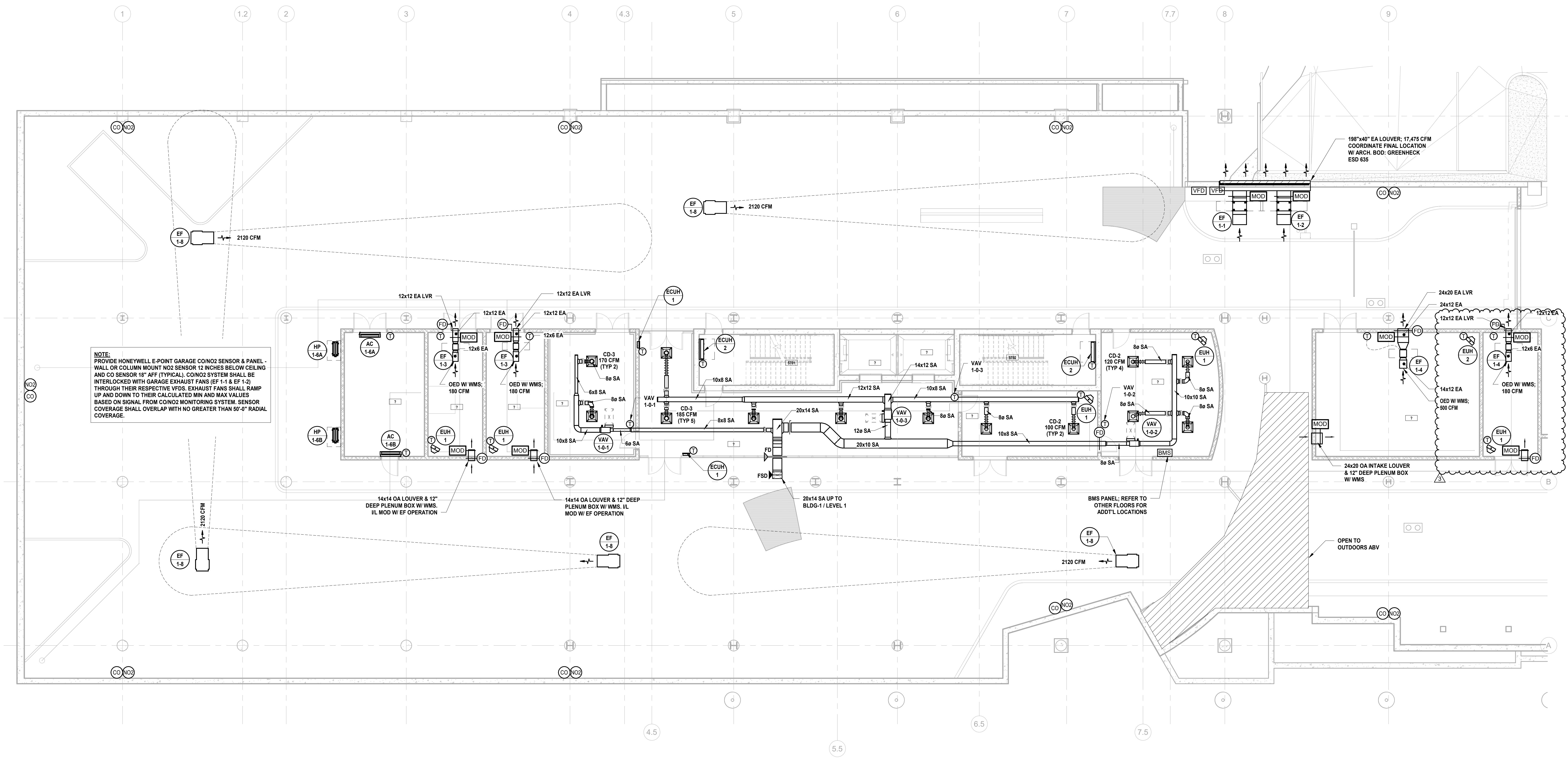
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

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

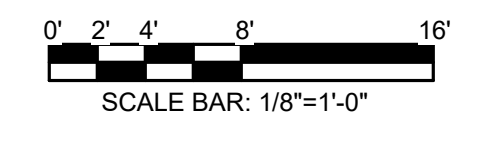
Drawing Information:
Project No: 20.072
Date: 11/08/2023
Drawn By: JSK/AVPC
Checked By: JM/SH

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

Sheet No:
M-101



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



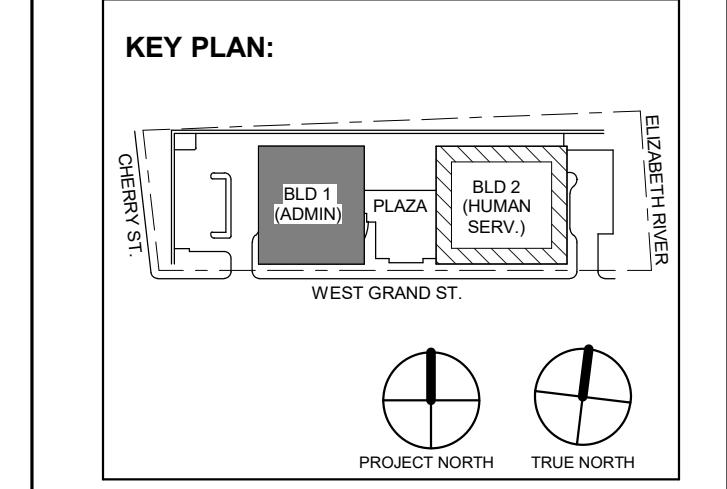


Table with 3 columns: No., Date, Description. Row 1: 3, 12/15/2023, Addendum No. 3. Row 2: 11/08/2023, For Public Bid.

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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: JSK/AVPC Checked By: JM/SH

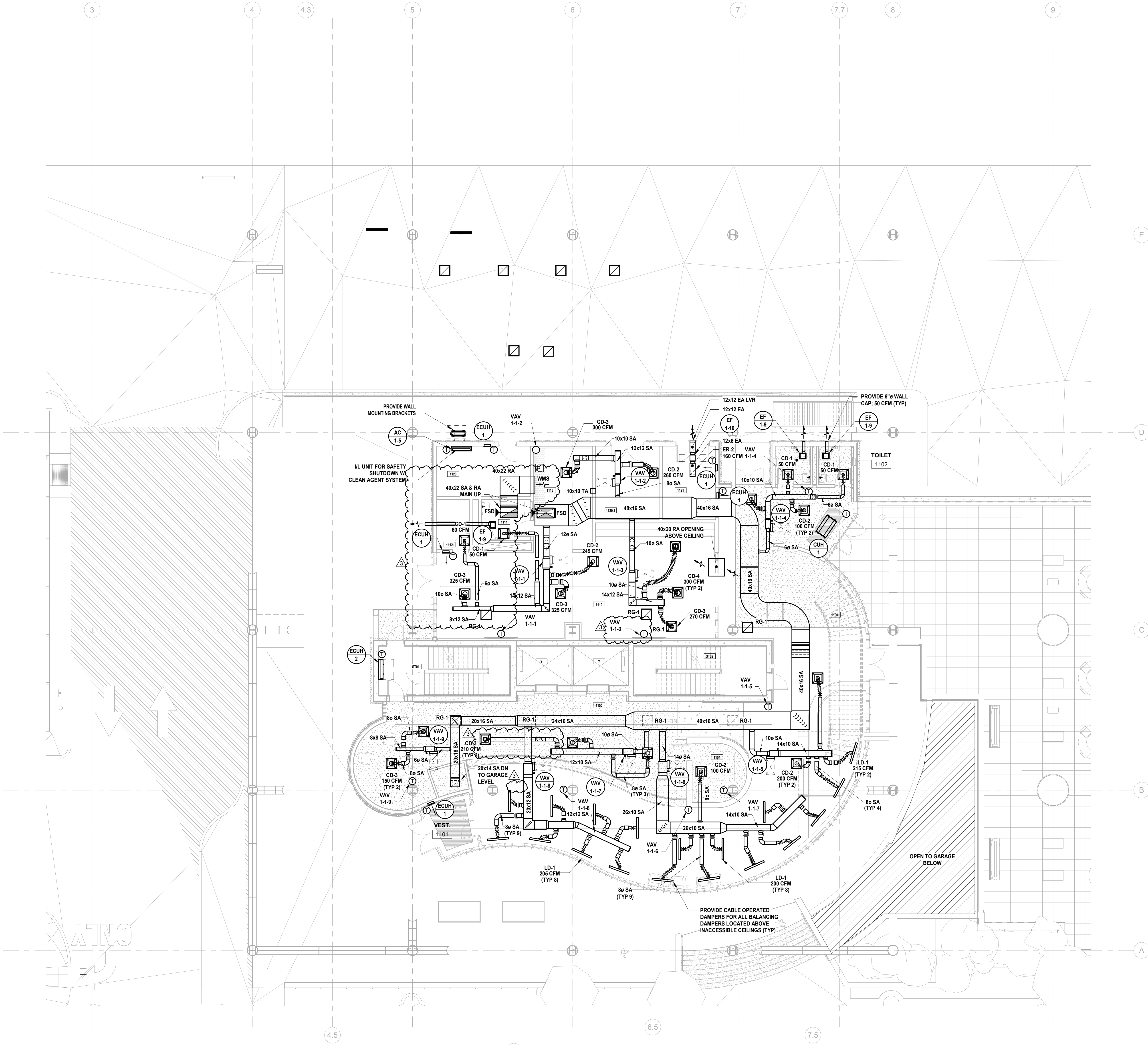
Sheet Name: BUILDING NO. 1 - LEVEL 1 - MECHANICAL DUCTWORK PLAN

Sheet No:

M-102

MECHANICAL SYSTEM NOTES:

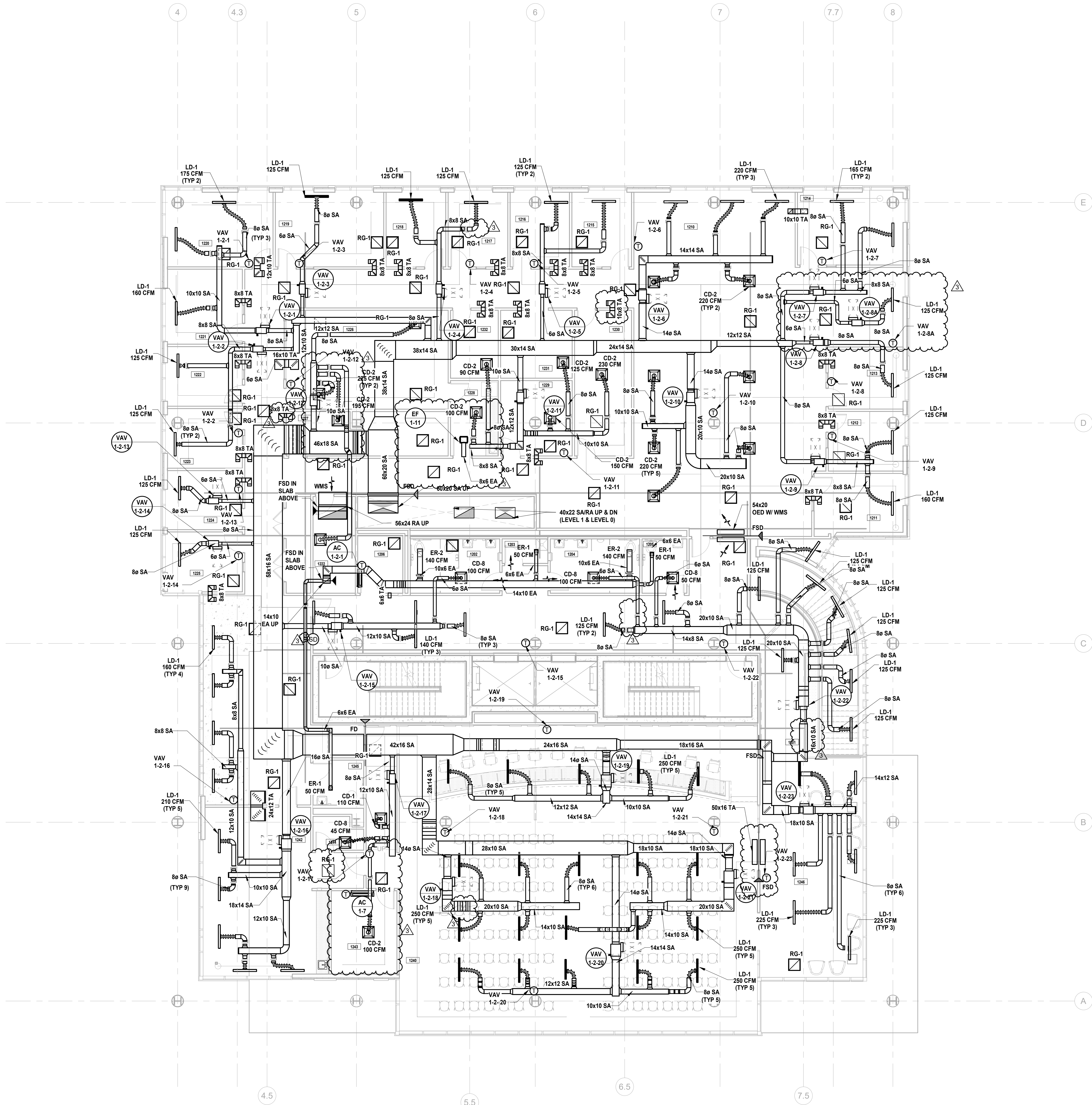
- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. 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. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACOUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO ULTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.



1 BUILDING NO. 1 - LEVEL 1 - MECHANICAL DUCTWORK PLAN M-102 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

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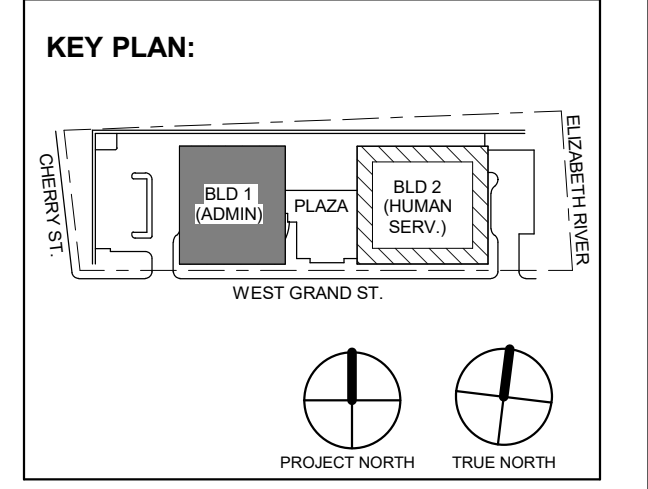
1 BUILDING NO. 1 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

M-103 SCALE: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E.

ALTERNATION OF THIS DOCUMENT ACCEPTED BY LICENSED PROFESSIONAL ENGINEER... DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
3	12/15/2023	Addendum No. 3
2	12/08/2023	Addendum No. 2
1	11/08/2023	For Public Bid

Revisions / Issues

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: JSK/AJPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

Sheet No: M-103

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

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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: JSK/AJPC Checked By: JM/SH

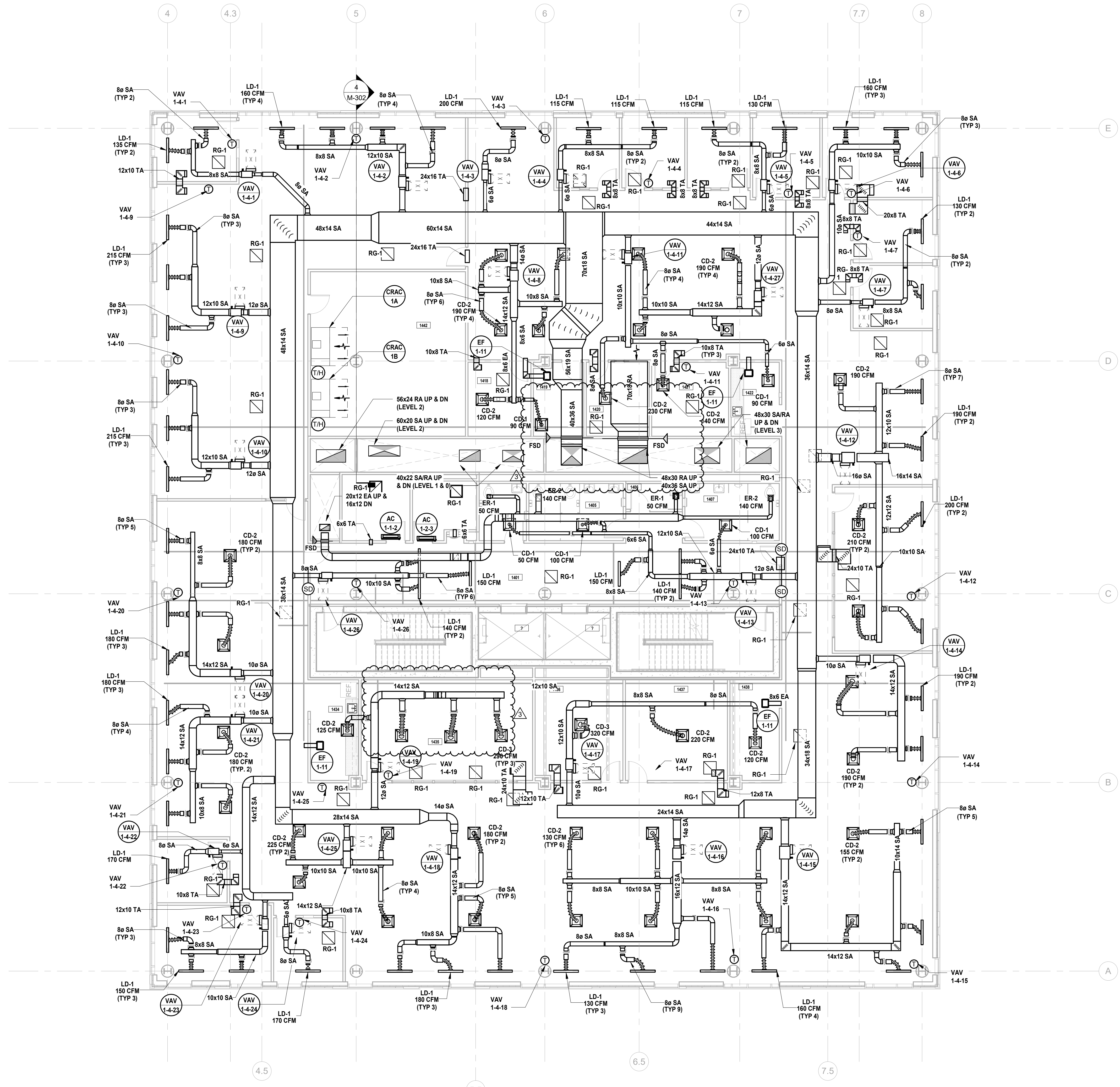
Sheet Name: BUILDING NO. 1 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

Sheet No: M-103

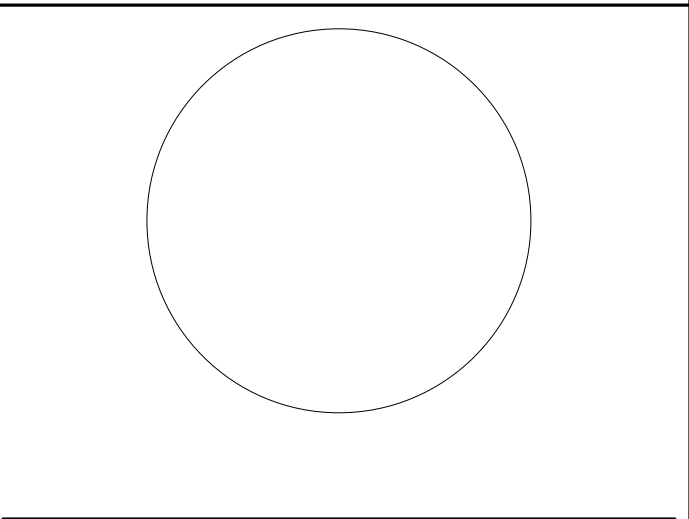
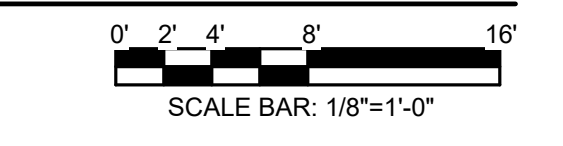
Scale: 1/8" = 1'-0"

MECHANICAL SYSTEM NOTES:

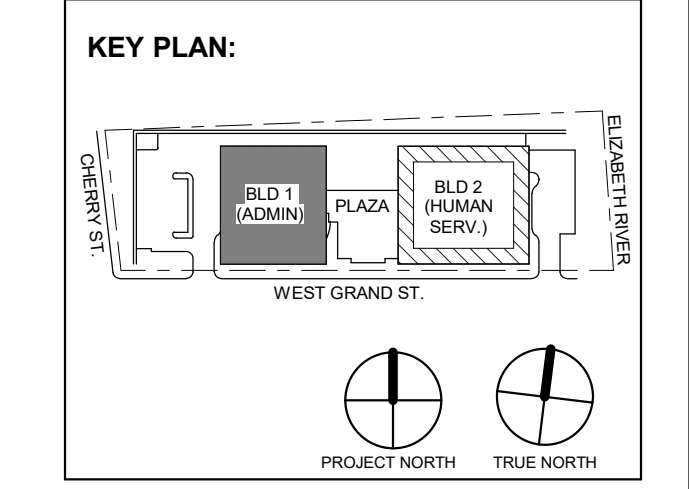
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1 BUILDING NO. 1 - LEVEL 4 - MECHANICAL DUCTWORK PLAN M-105 SCALE: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THIS DOCUMENT ACCEPTED BY LICENSED PROFESSIONAL ENGINEER. THIS SEAL IS NOT VALID UNLESS USED IN CONJUNCTION WITH THE PROFESSIONAL SEAL AND SIGNED BY THE DESIGNER. DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM PROJECT NO: D6G2301 DATE: 11/08/2023 SCALE: AS SHOWN



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

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3	12/15/2023	Addendum No. 3
2	12/08/2023	Addendum No. 2
1	11/08/2023	For Public Bid

DIGroupArchitecture 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. Veneziat, AIA NJ RA AI 00827100



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Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JSVA/WPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - MECHANICAL DUCTWORK PLAN

Sheet No: M-105

Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for Addendum No. 3 and 2.

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: JSB/AJPC Checked By: JM/SH Sheet Name: BUILDING NO. 1 - LEVEL 5 - MECHANICAL DUCTWORK PLAN

Sheet No: M-106

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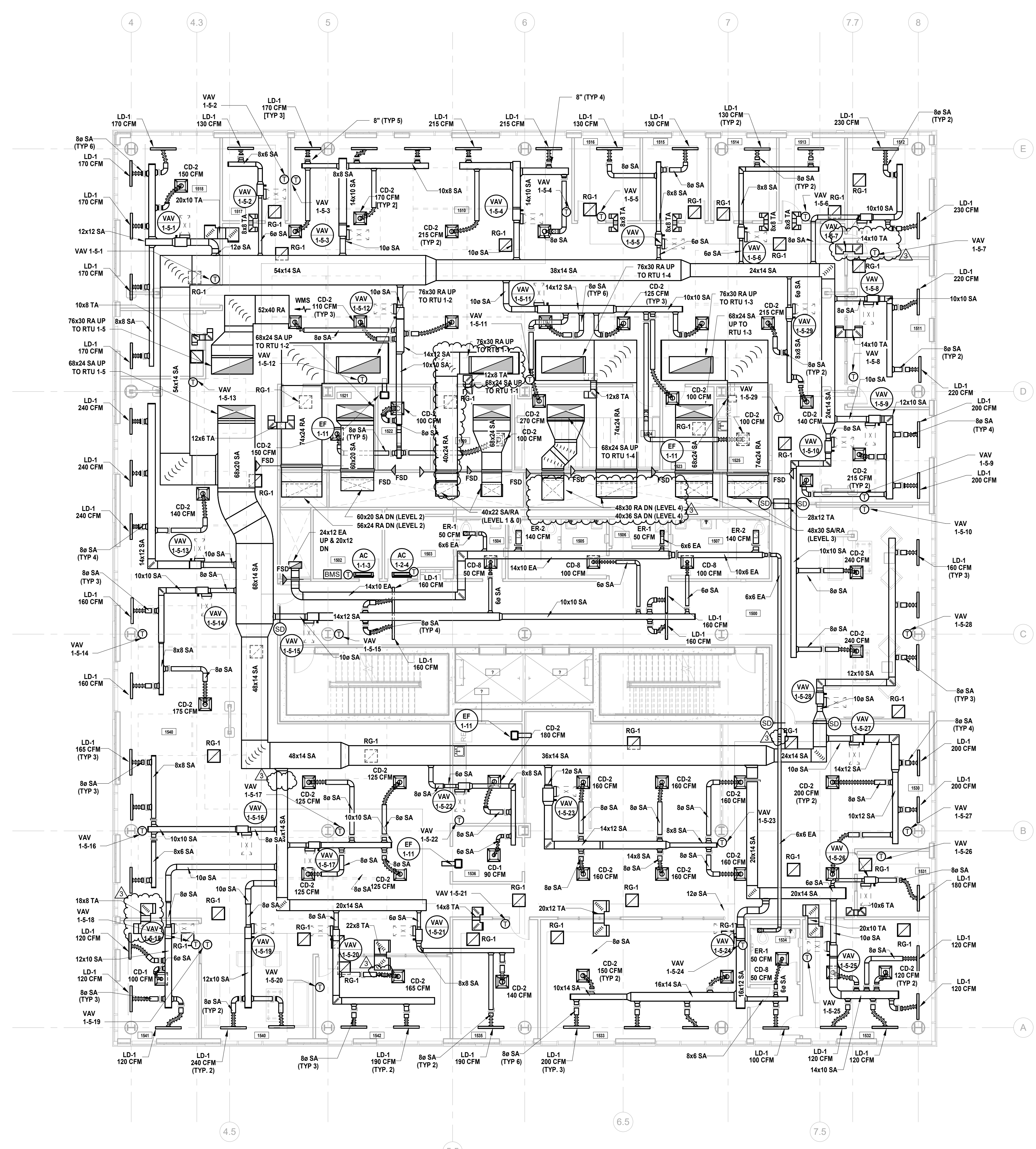
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MECHANICAL SYSTEM NOTES:

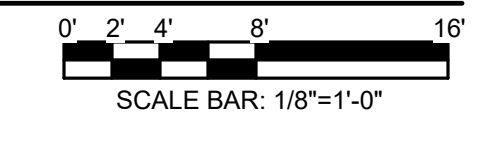
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- I. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS.



1 BUILDING NO. 1 - LEVEL 5 - MECHANICAL DUCTWORK PLAN M-106 SCALE: 1/8" = 1'-0"



12/14/2023 12:32:08 PM

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5500 www.h2m.com NJ Landscape Architecture Certificate No.: 21MH0010330 NJ Engineering Certificate of Authorization No.: 24GA26019100

JOHN CHRIS MORRIS III, P.E. NJ PROFESSIONAL ENGINEER (No. 34888888)

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, PROJECT No., DATE, SCALE. Values include JSK/DKR, JSK, JCM, DGA2301, 11/08/2023, AS SHOWN.

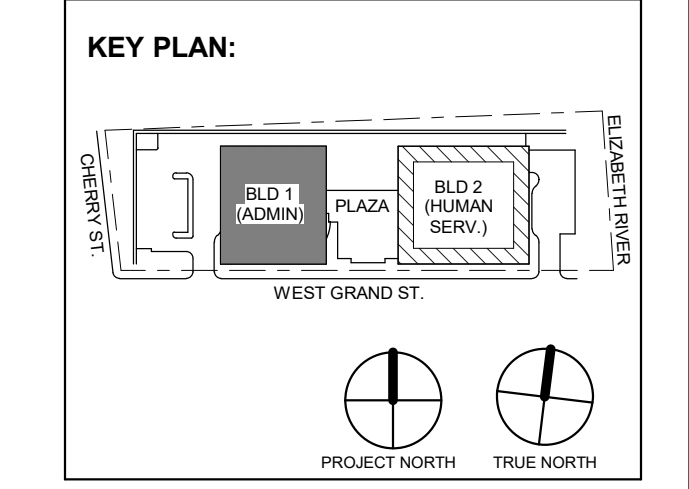


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Client: UNION COUNTY IMPROVEMENT AUTHORITY

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

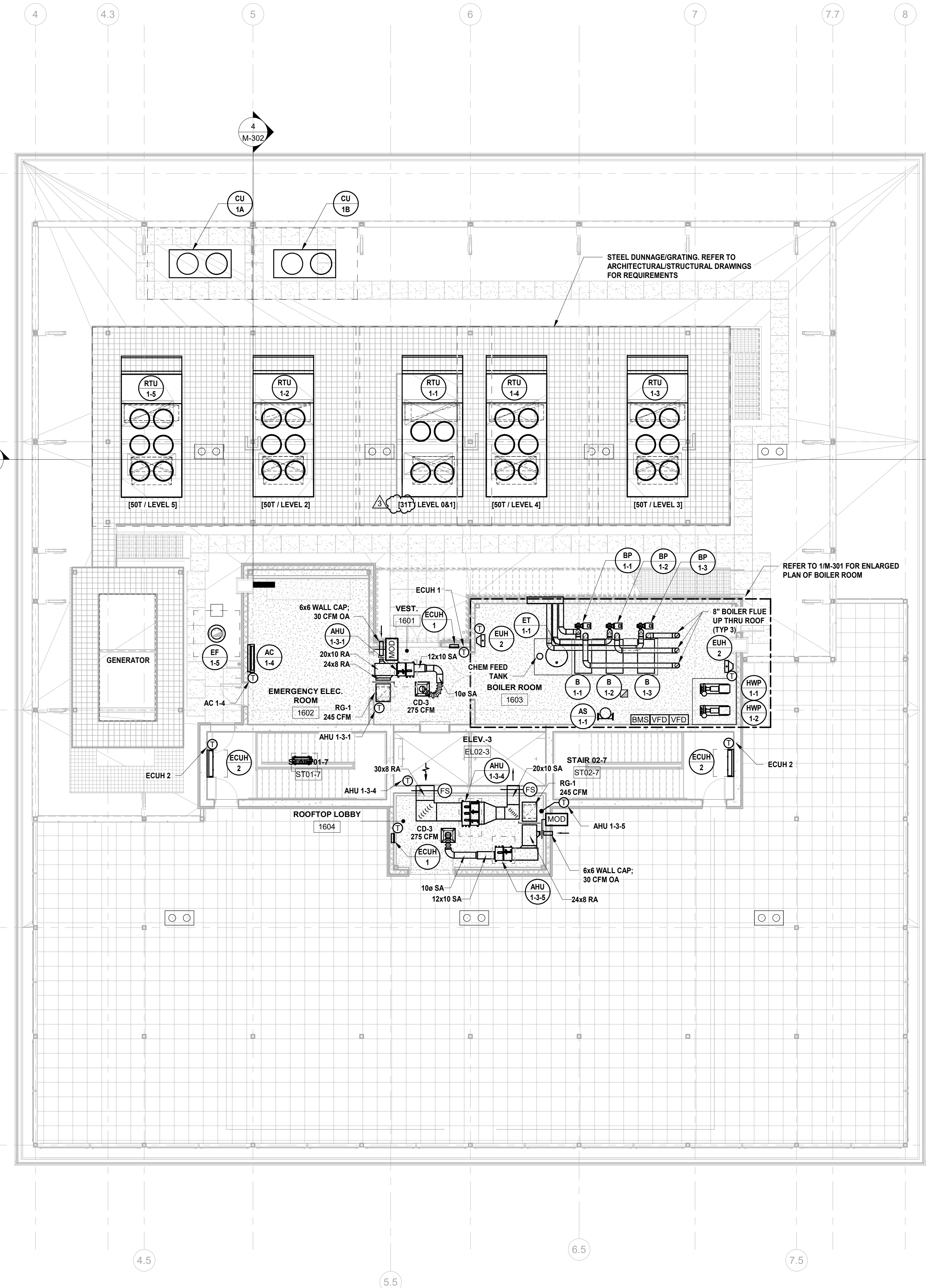
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JSB/AJPC Checked By: JM/SH

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

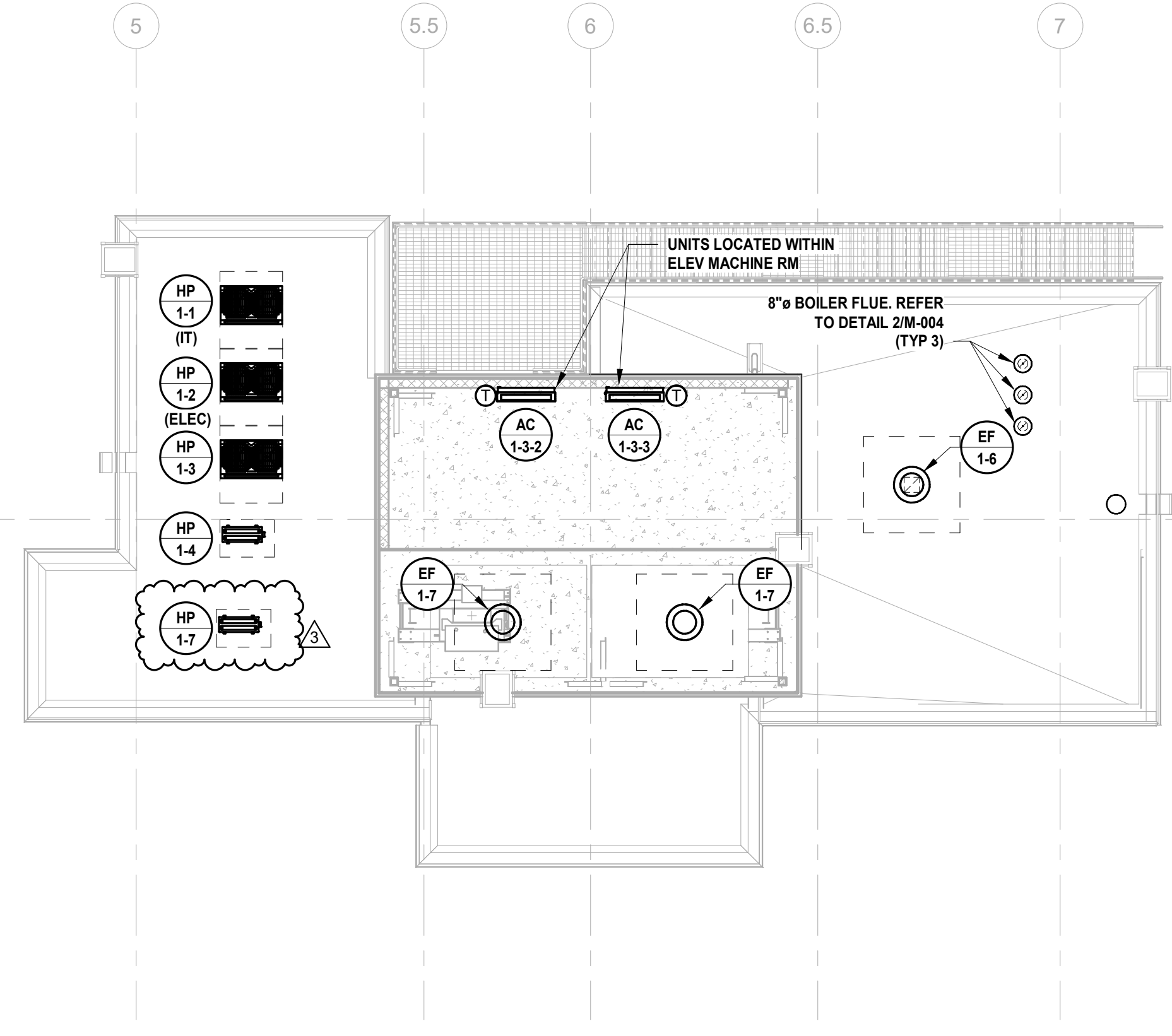
Sheet No: M-107

MECHANICAL SYSTEM NOTES:

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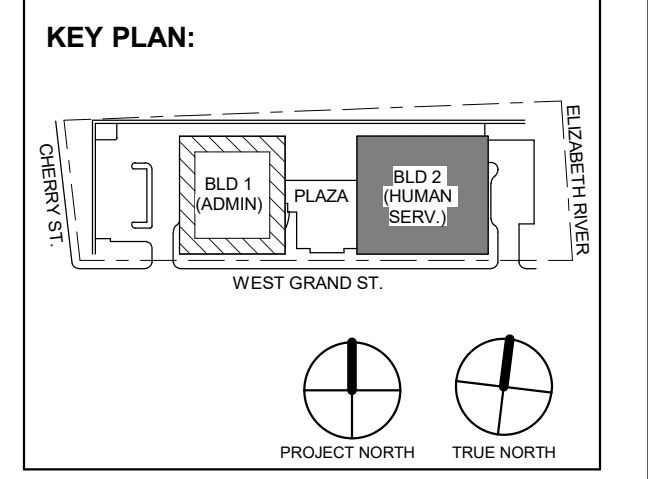


1 BUILDING NO. 1 - ROOF - MECHANICAL DUCTWORK PLAN M-107 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"



2 BLDG 2 - PENTHOUSE ROOF M-107 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

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3 12.15.2023 Addendum No. 3
11.08.2023 For Public Bid
No. Date Description
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Drawing Information:
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Date: 11.08.2023
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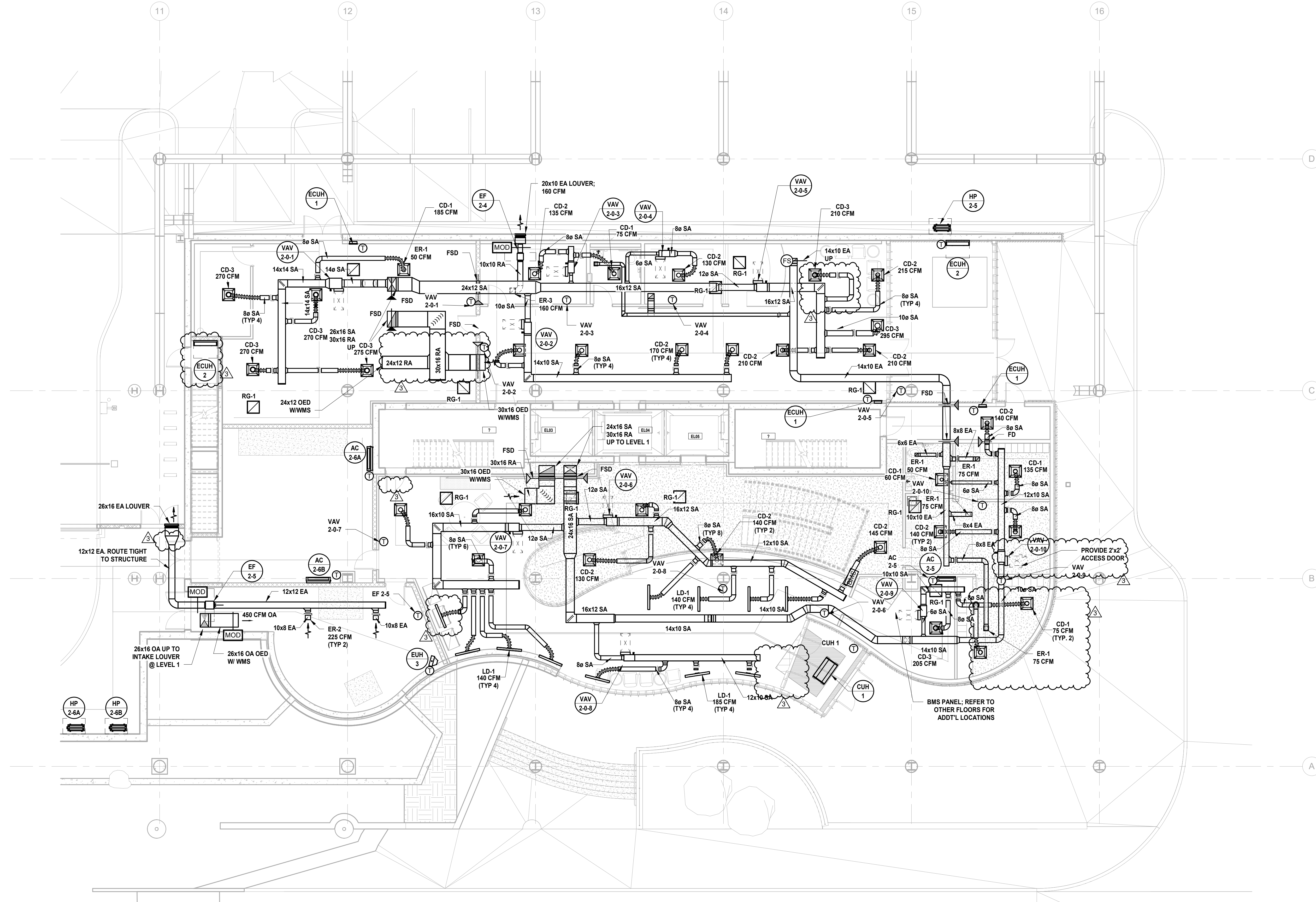
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BUILDING NO. 2 - LEVEL 0 - MECHANICAL DUCTWORK PLAN

Sheet No:

M-110

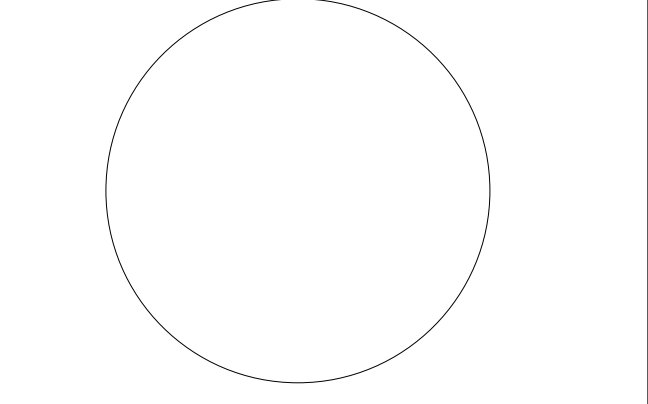
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1 BUILDING NO. 2 - LEVEL 0 - MECHANICAL DUCTWORK PLAN
M-110 SCALE: N.T.S.





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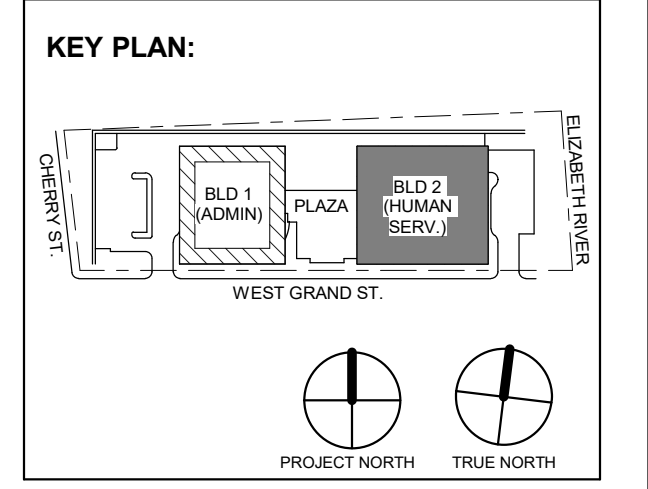


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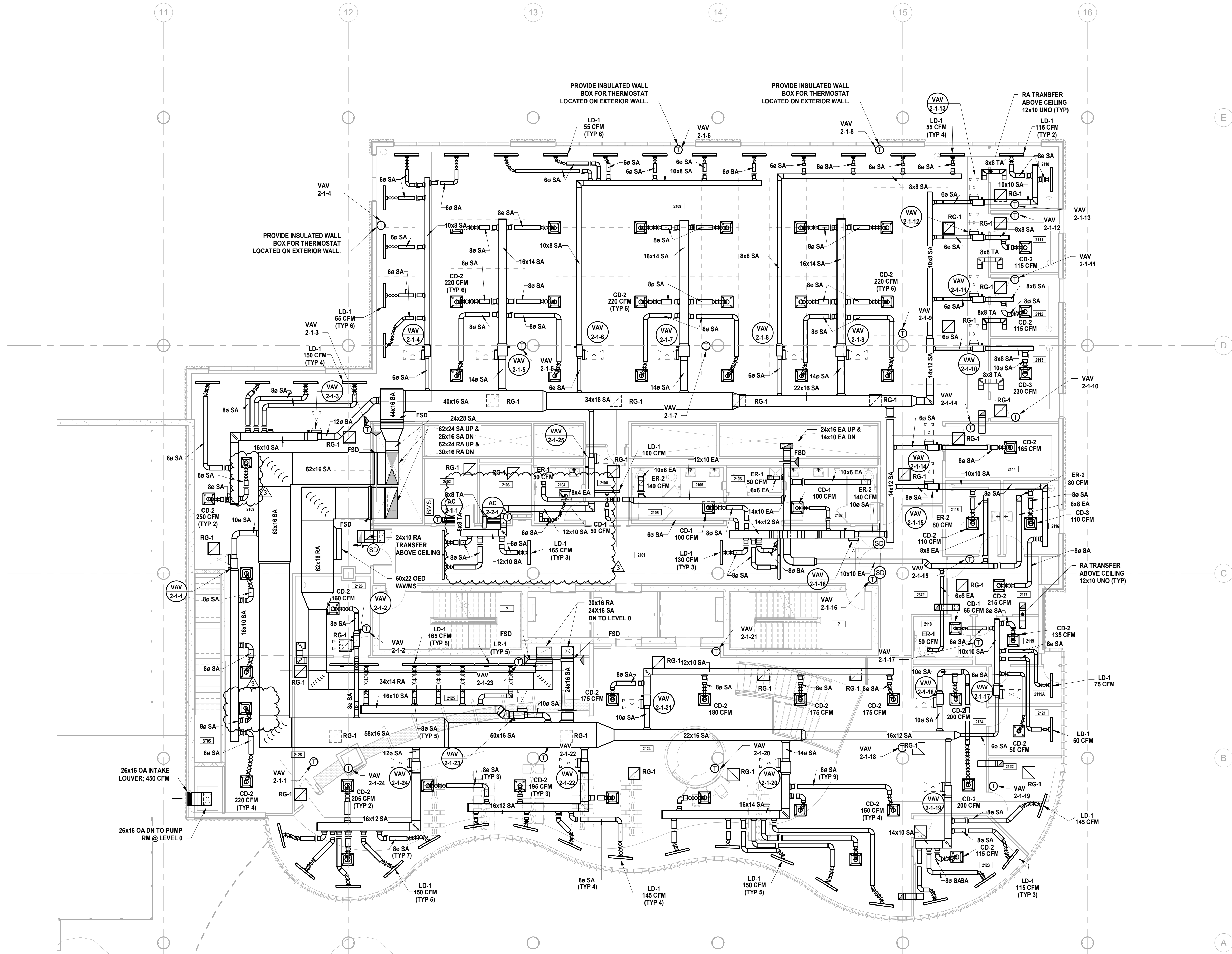
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Sheet Name: BUILDING NO. 2 - LEVEL 1 - MECHANICAL DUCTWORK PLAN

Sheet No: M-111

MECHANICAL SYSTEM NOTES:

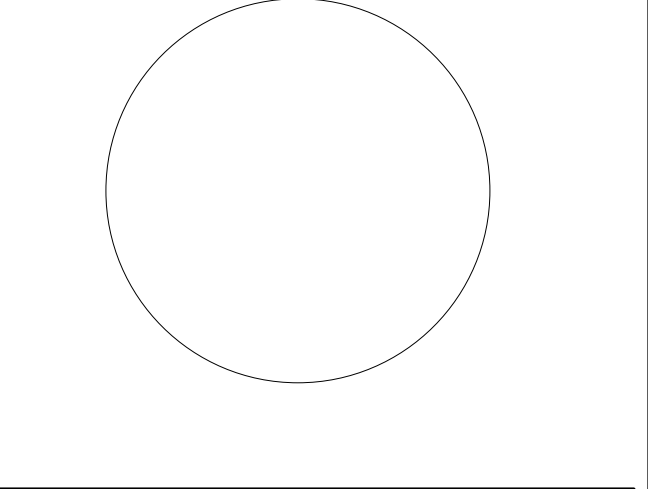
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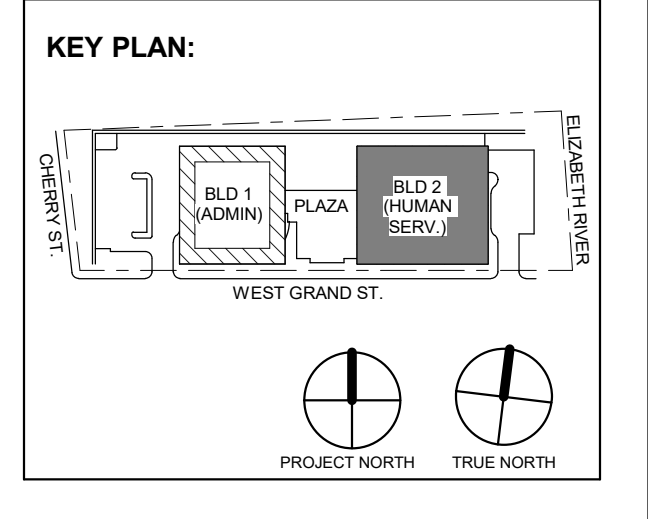
1 BUILDING NO. 2 - LEVEL 1 - MECHANICAL DUCTWORK PLAN SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

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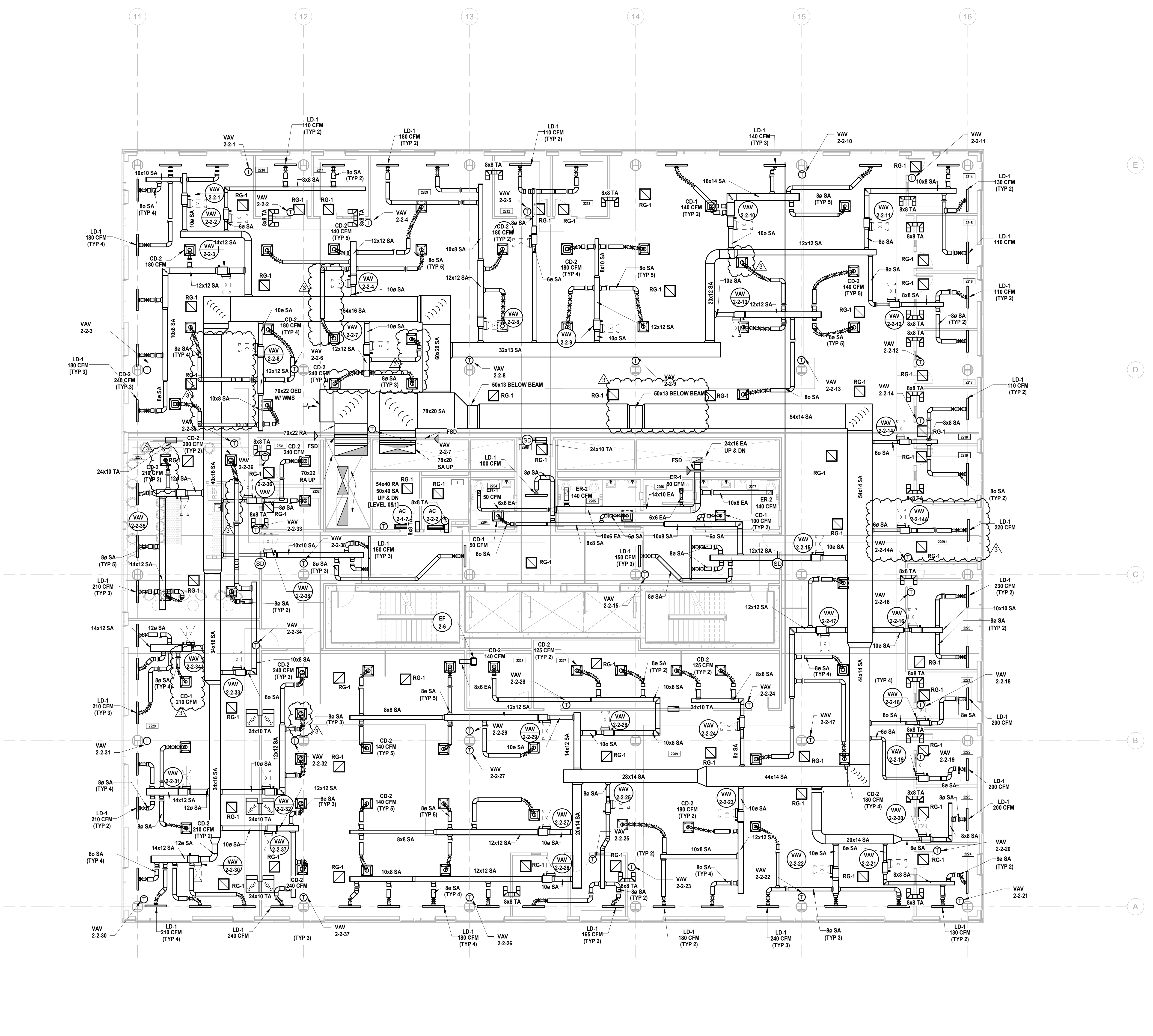
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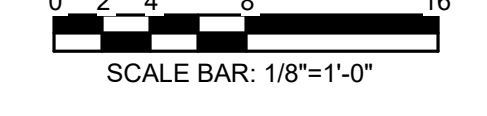
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Sheet Name: BUILDING NO. 2 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

Sheet No: M-112

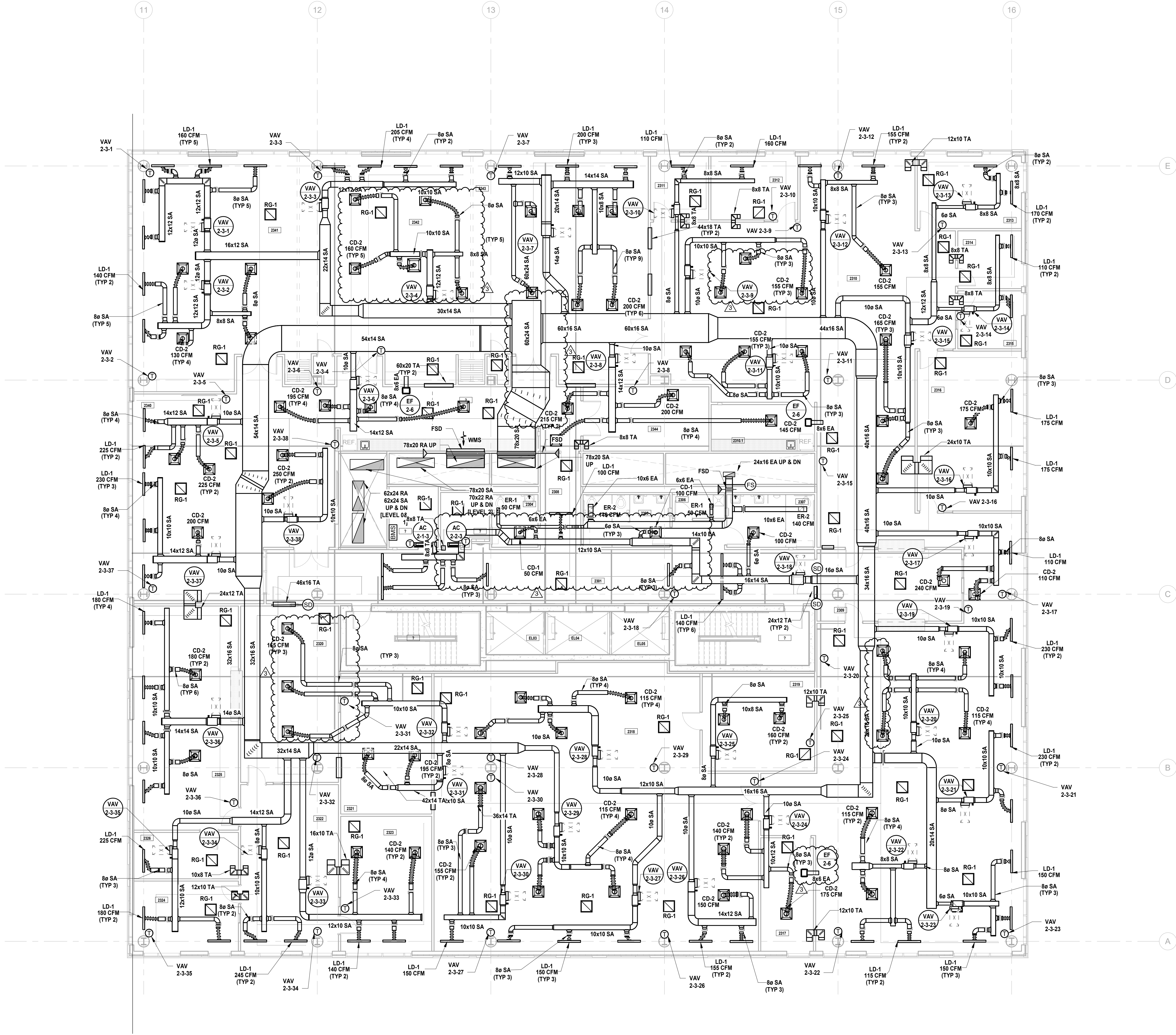


1 BUILDING NO. 2 - LEVEL 2 - MECHANICAL DUCTWORK PLAN M-112 SCALE: 1/8" = 1'-0"

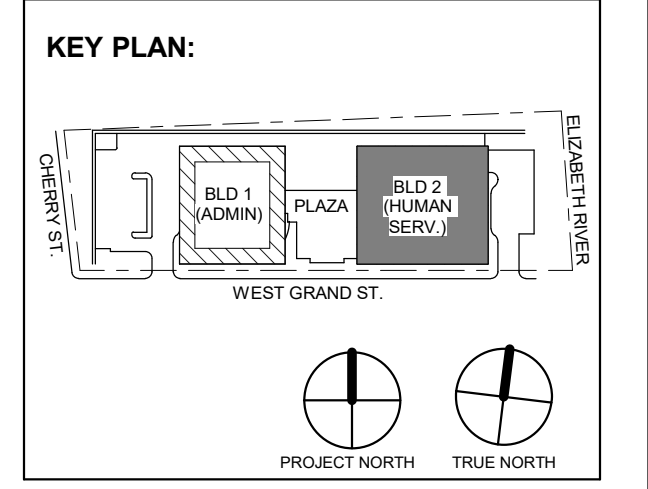


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3 12.15.2023 Addendum No. 3
2 12.08.2023 Addendum No. 2
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Sheet Name: BUILDING NO. 2 - LEVEL 3 - MECHANICAL DUCTWORK PLAN

Sheet No: M-113

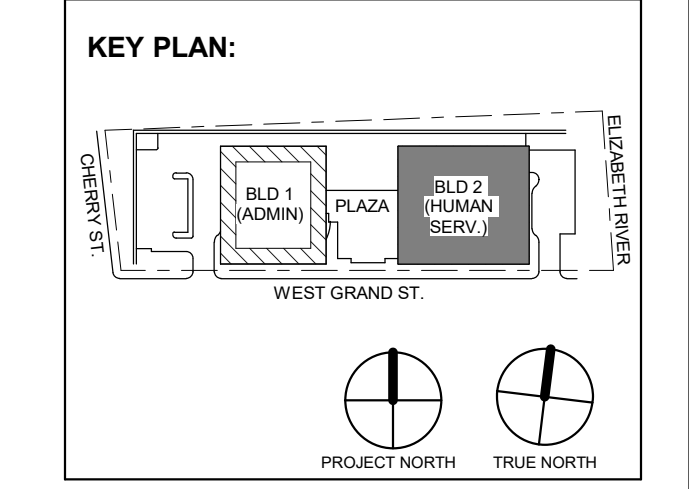
1 BUILDING NO. 2 - LEVEL 3 - MECHANICAL DUCTWORK PLAN M-113 SCALE: 1/8" = 1'-0"



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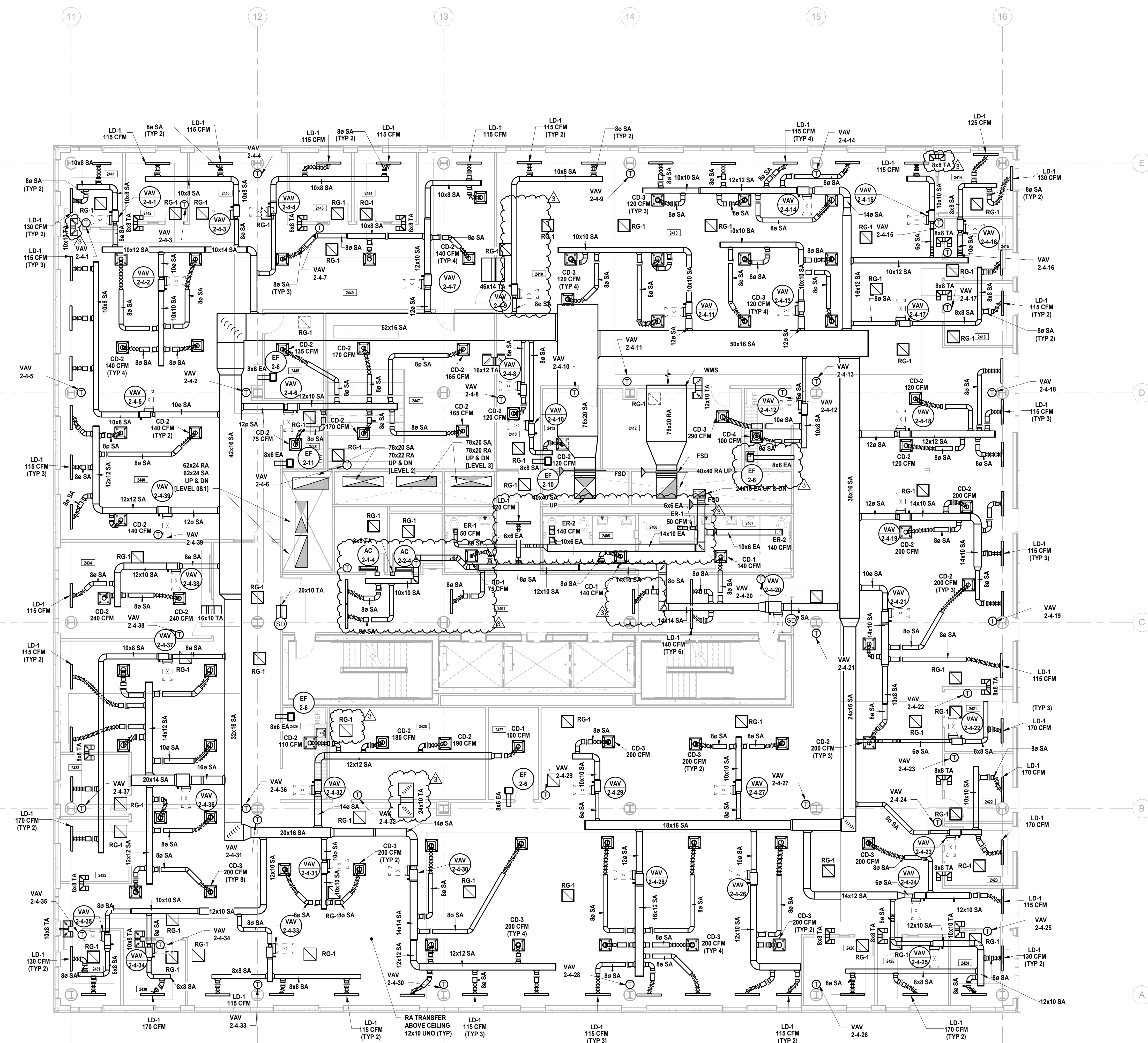
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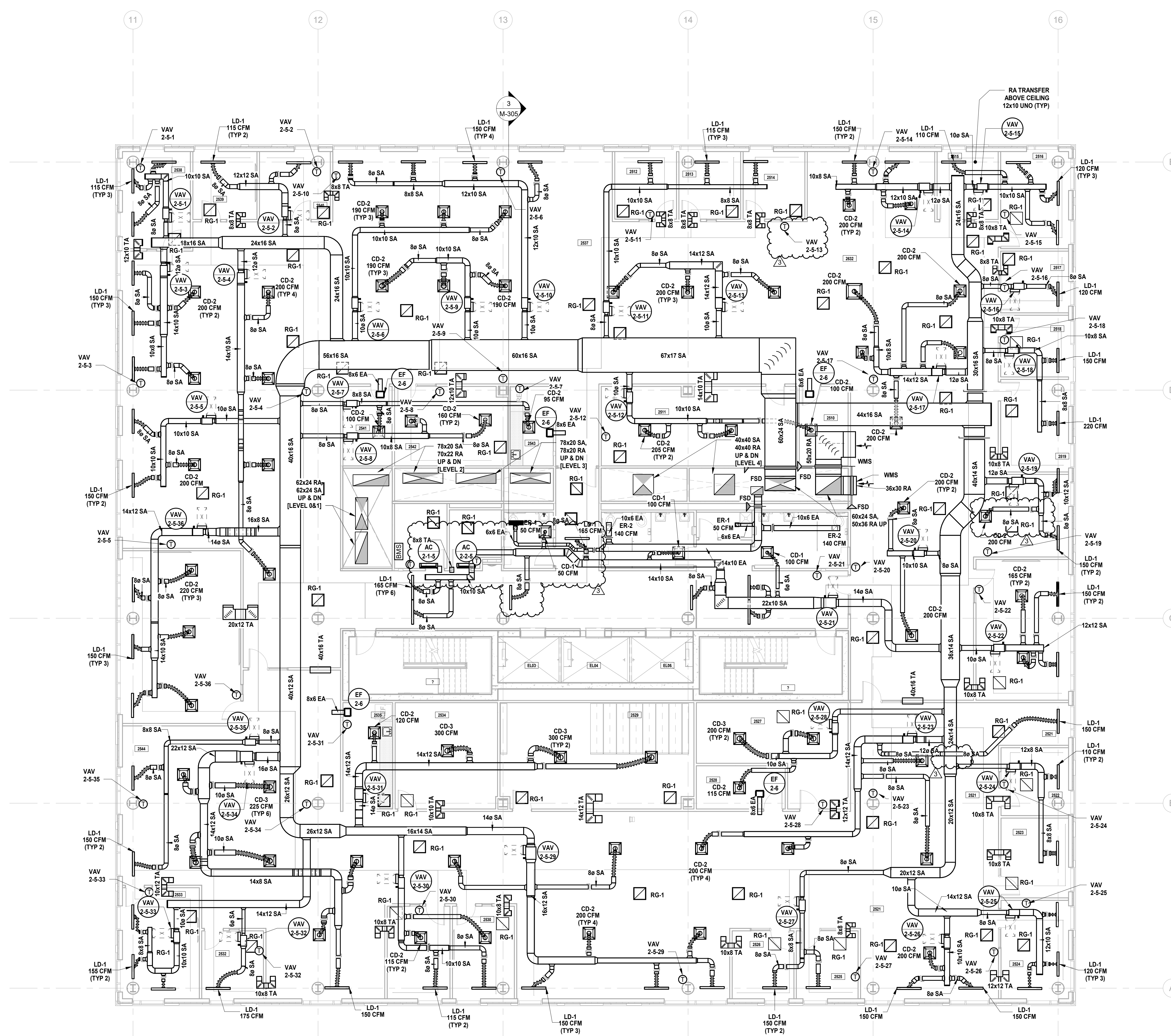
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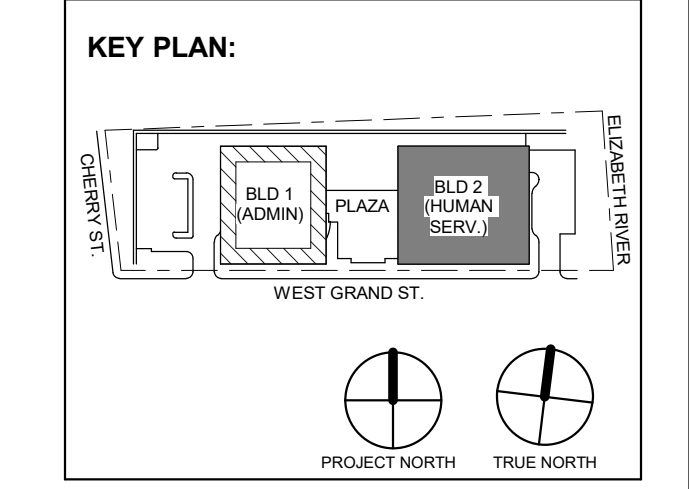
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1 BUILDING NO. 2 - LEVEL 5 - MECHANICAL DUCTWORK PLAN
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 SCALE BAR: 1/8"=1'-0"

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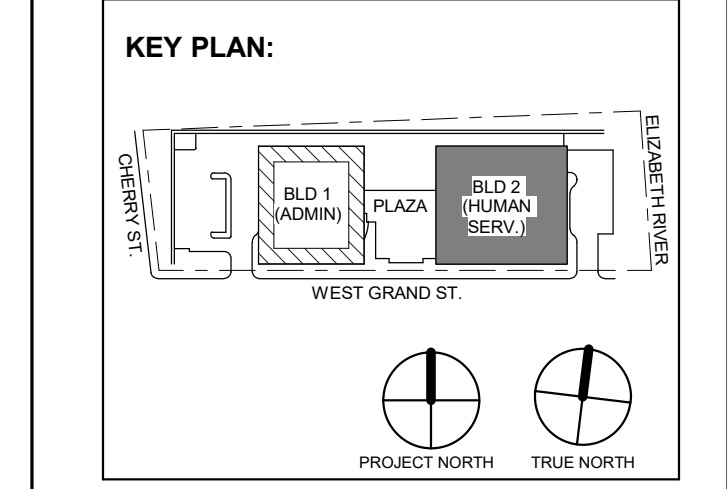
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 Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 5 - MECHANICAL DUCTWORK PLAN

Sheet No:
M-115

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5500 www.h2m.com

JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THIS DOCUMENT EXCEPT BY LICENSED PROFESSIONAL DESIGNER OR BY AN APPLICABLE CONTRACT DOCUMENT. DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JCM PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for Addendum No. 3, Addendum No. 2, and 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

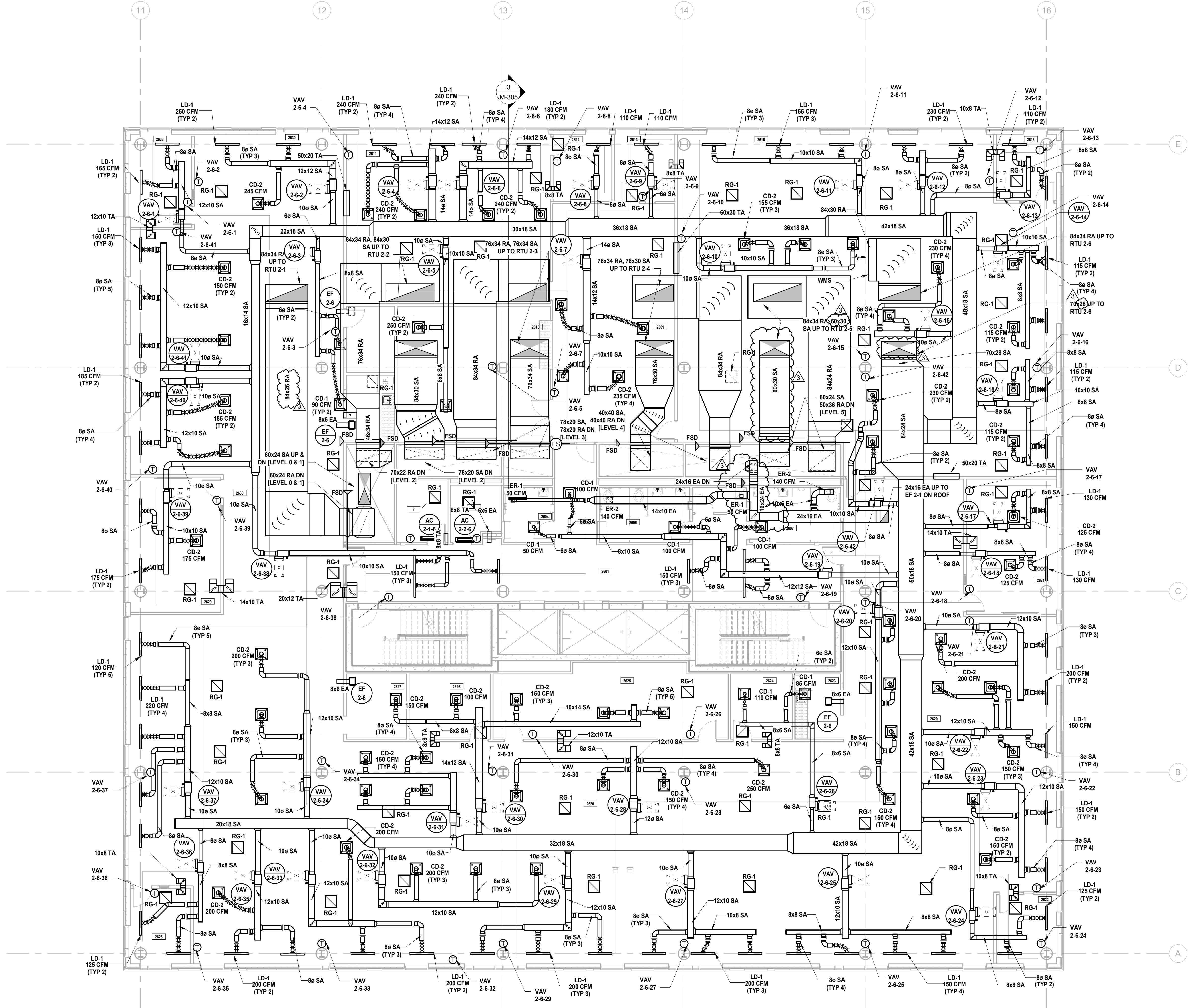
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/WPC Checked By: JMSH

Sheet Name: BUILDING NO. 2 - LEVEL 6 - MECHANICAL DUCTWORK PLAN

Sheet No: M-116

MECHANICAL SYSTEM NOTES:

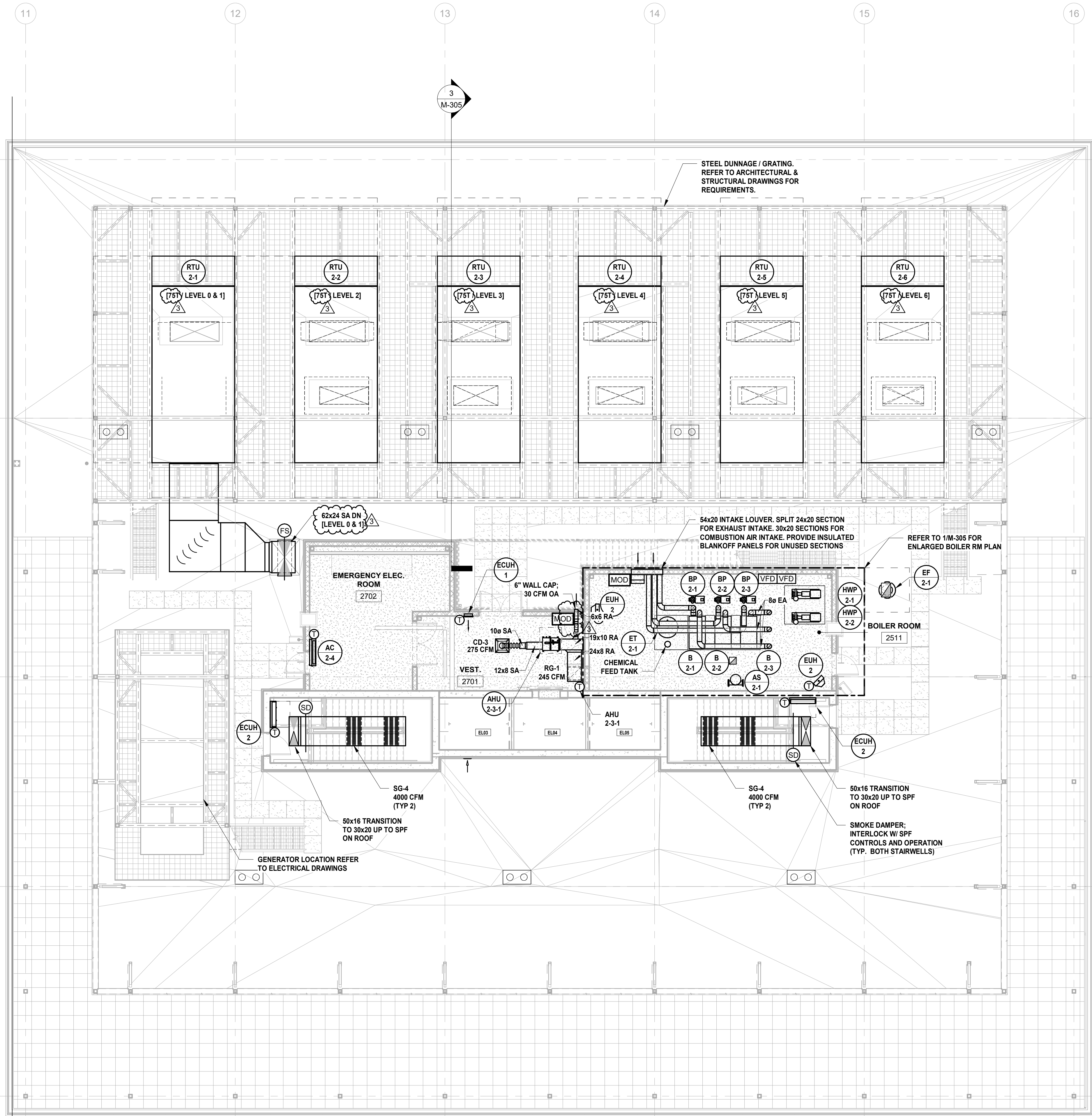
- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. 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. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACoustICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. 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. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS. I. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS.



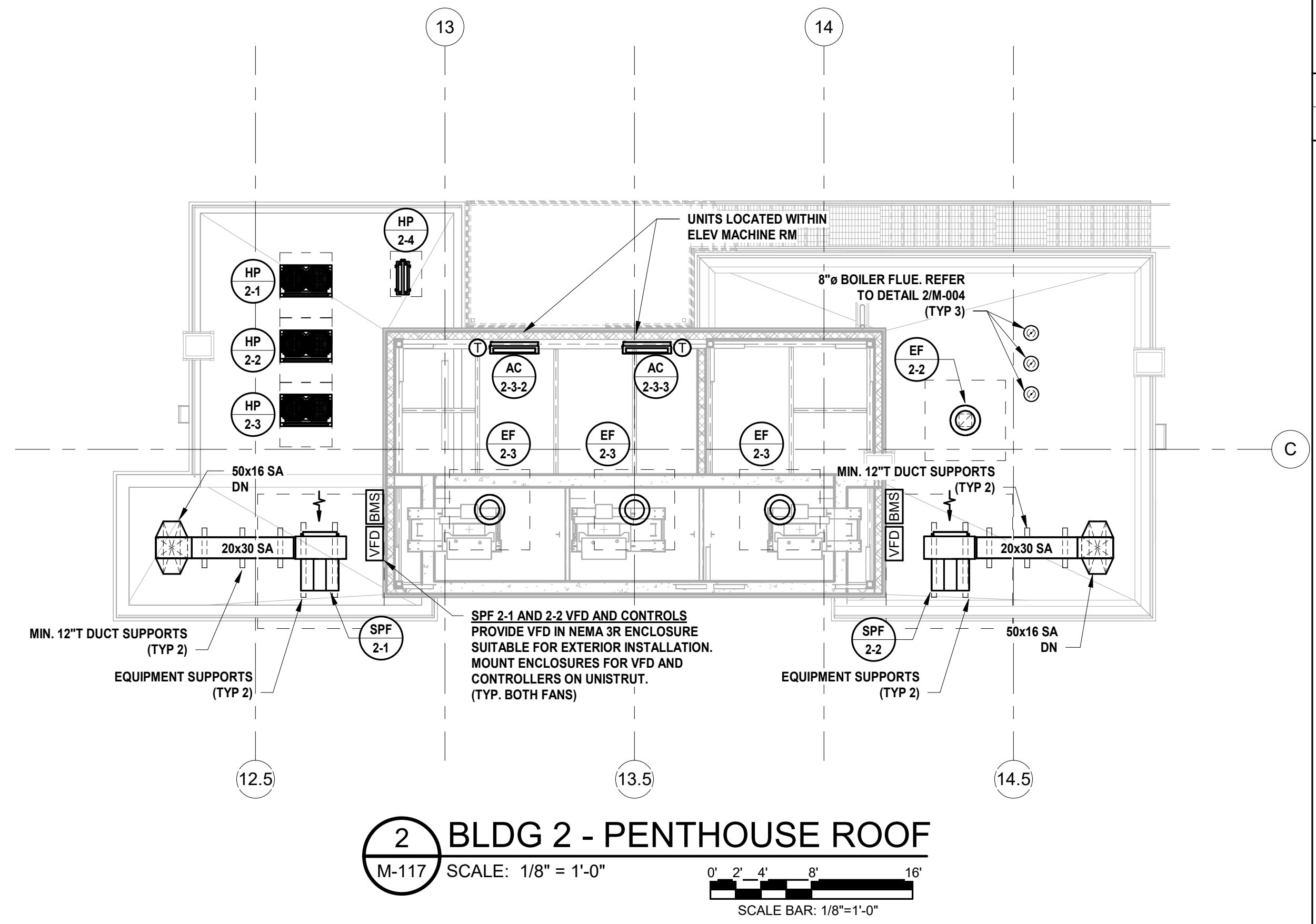
1 BUILDING NO. 2 - LEVEL 6 - MECHANICAL DUCTWORK PLAN SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

- GENERAL NOTES:
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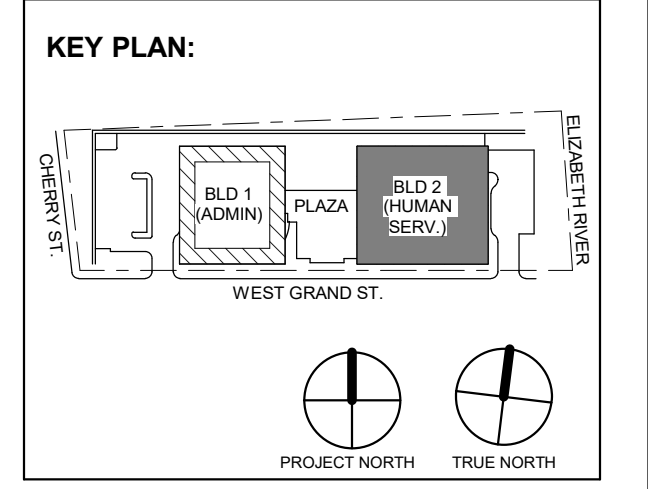


1 BUILDING NO. 2 - ROOF - MECHANICAL DUCTWORK PLAN
 M-117 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



2 BLDG 2 - PENTHOUSE ROOF
 M-117 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"

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



No.	Date	Description
3	12.15.2023	Addendum No. 3
	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: JSK/AJPC
 Checked By: JM/SJ

Sheet Name:
BUILDING NO. 2 - ROOF - MECHANICAL DUCTWORK PLAN

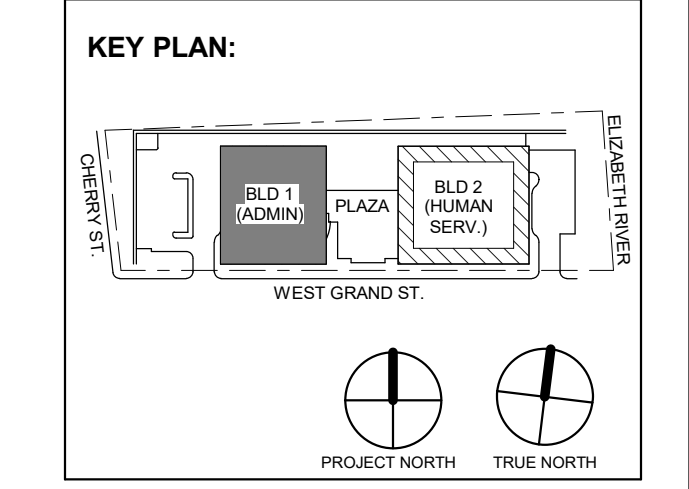
Sheet No:
M-117

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 - G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.

JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER (No. 34888)

DESIGNED BY	CHKD BY	DATE	SCALE
JSK/DKR	DKR	11/08/2023	AS SHOWN



No.	Date	Description
3	12/15/2023	Addendum No. 3
	11/08/2023	For Public Bid

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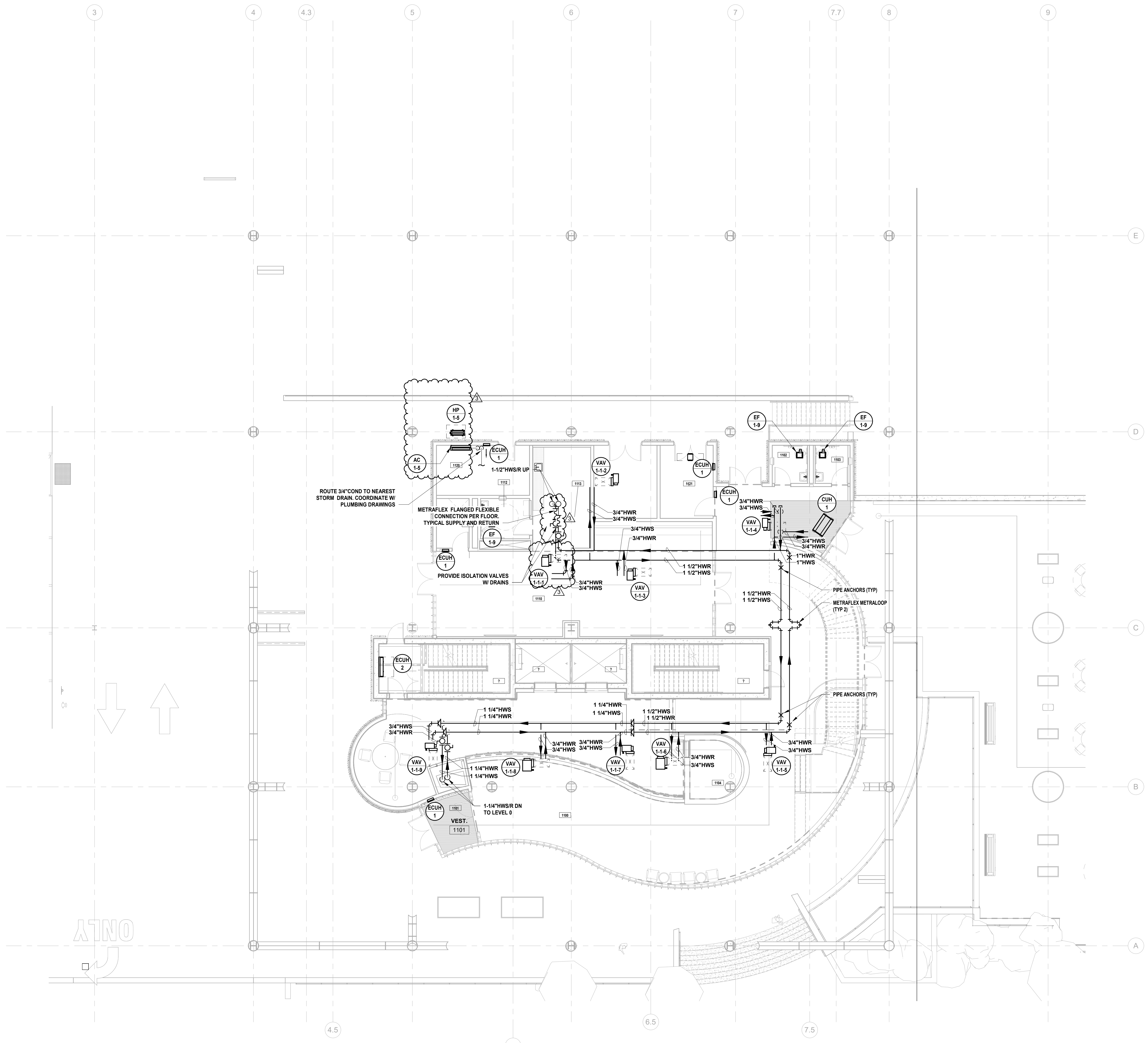
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

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: JSB/AJPC
Checked By: JM/SH

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

Sheet No:
M-202



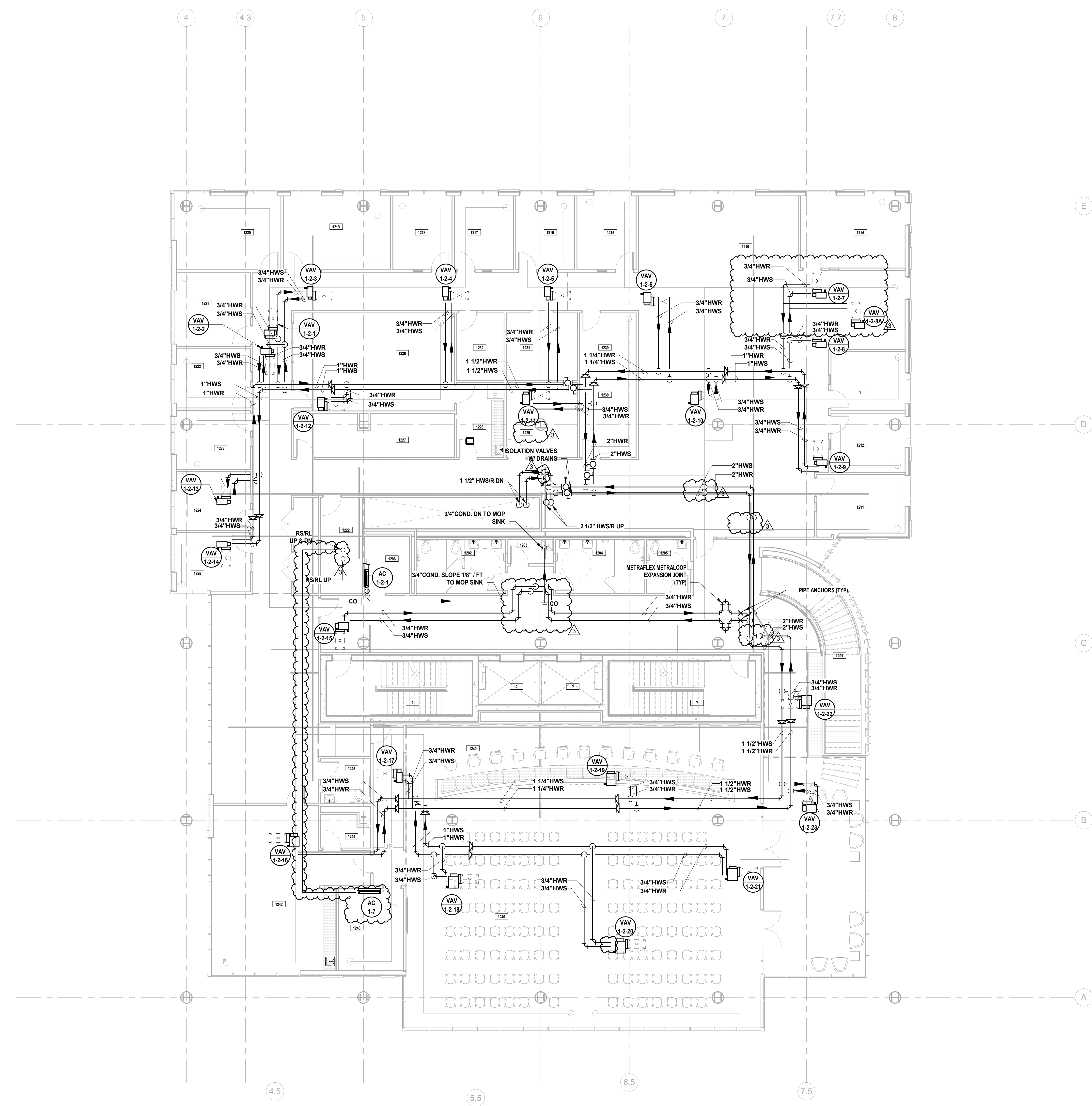
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SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8" = 1'-0"

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NJ Landscape Architecture Certificate No: 21MH0010330
NJ Engineering Certificate of Authorization No: 24GA2619100

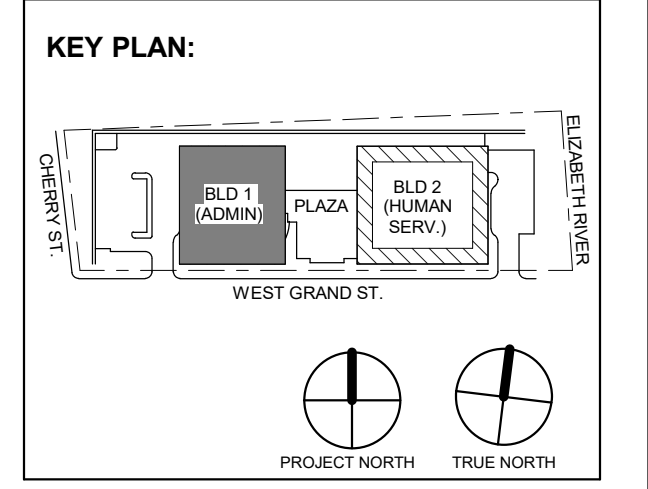
MECHANICAL SYSTEM NOTES

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JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER (No. 348888888)

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



No.	Date	Description
3	12/15/2023	Addendum No. 3
	11/08/2023	For Public Bid

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NJ RA # 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: JSB/AJPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 2 - MECHANICAL PIPING PLAN

Sheet No:

M-203

1 BUILDING NO. 1 - LEVEL 2 - MECHANICAL PIPING PLAN
M-203 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8" = 1'-0"

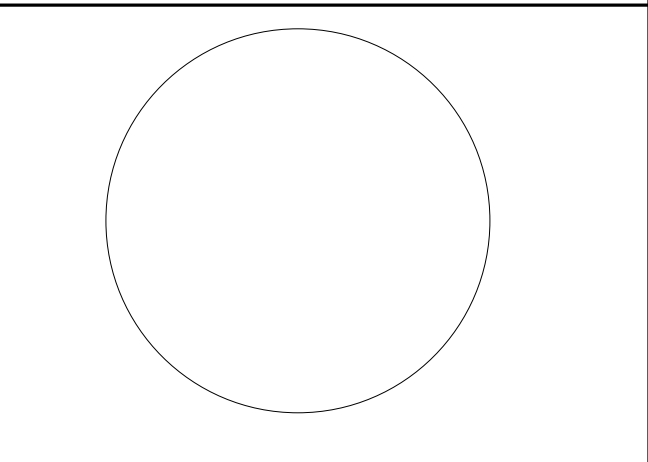
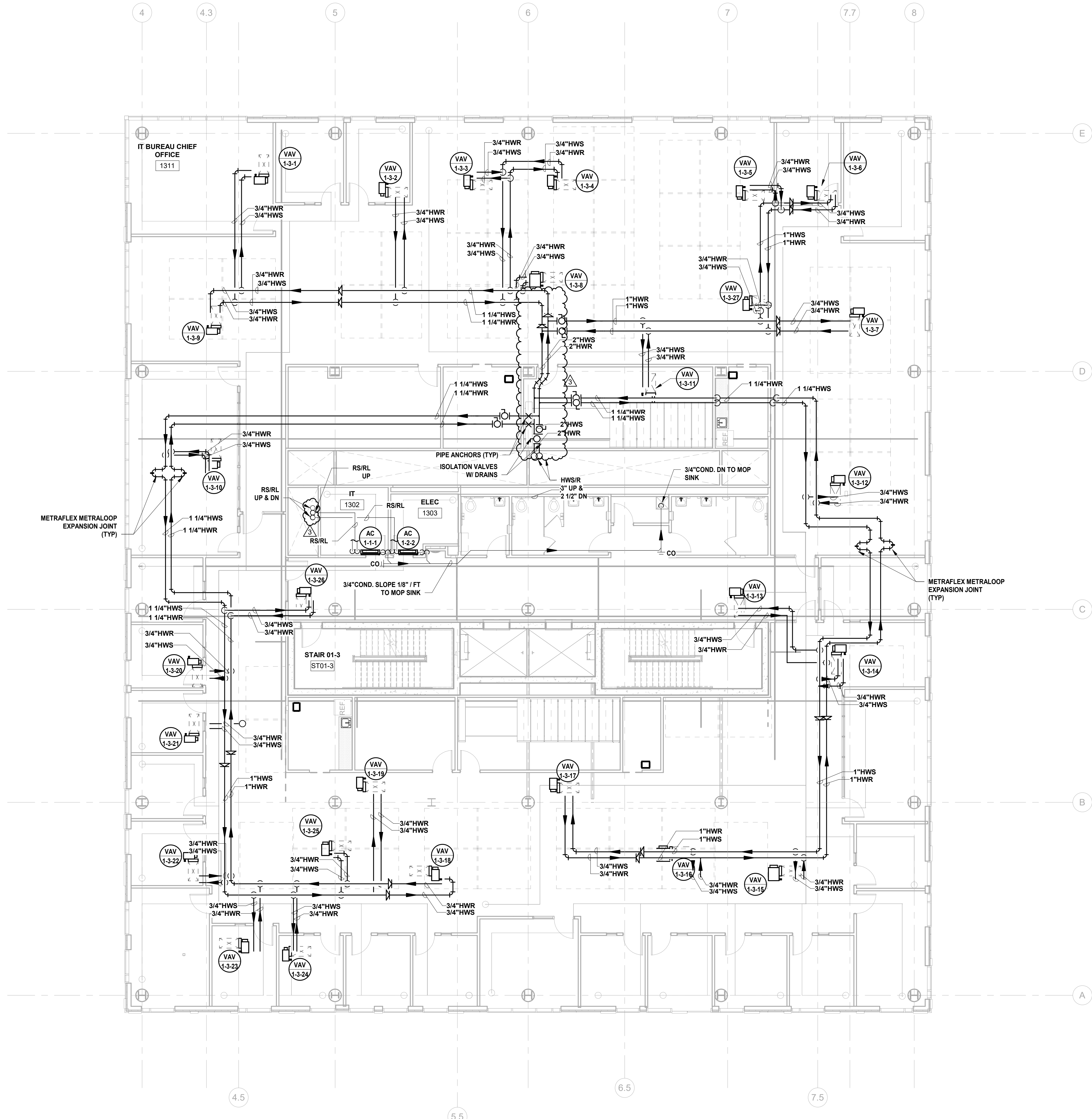
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MECHANICAL SYSTEM NOTES

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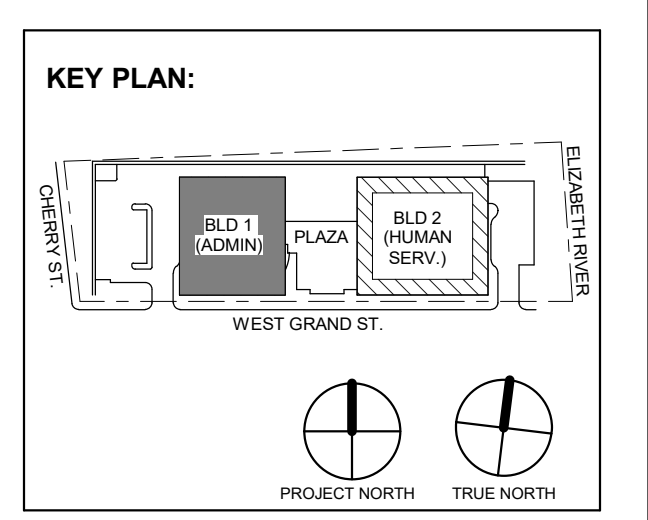


Table with 3 columns: No., Date, Description. Row 1: 3, 12/15/2023, Addendum No. 3. Row 2: 11/08/2023, For Public Bid.

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 - LEVEL 3 - MECHANICAL PIPING PLAN

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

1 BUILDING NO. 1 - LEVEL 3 - MECHANICAL PIPING PLAN M-204 SCALE: 1/8" = 1'-0"



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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

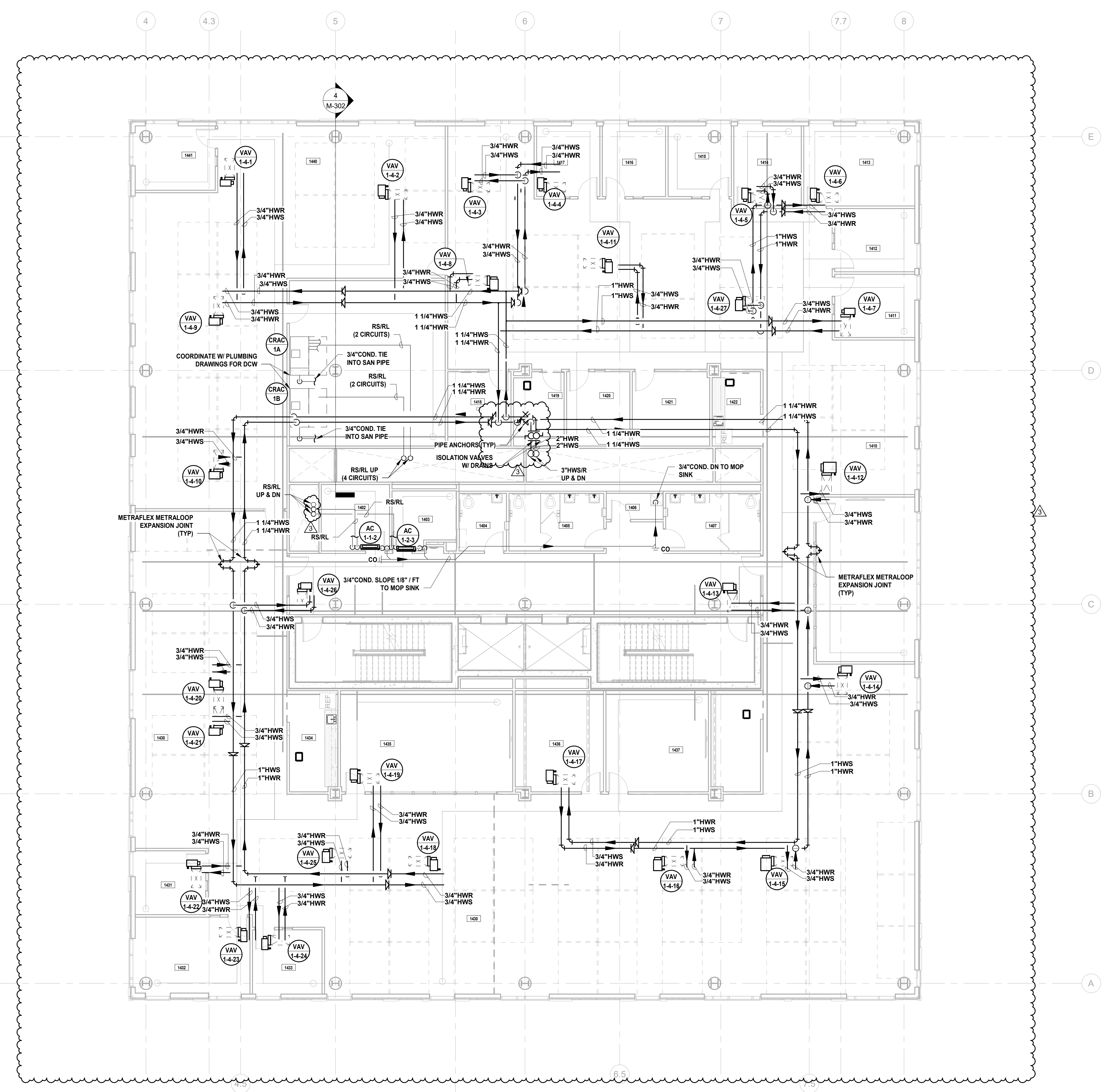
Sheet Name: BUILDING NO. 1 - LEVEL 3 - MECHANICAL PIPING PLAN

Sheet No: M-204

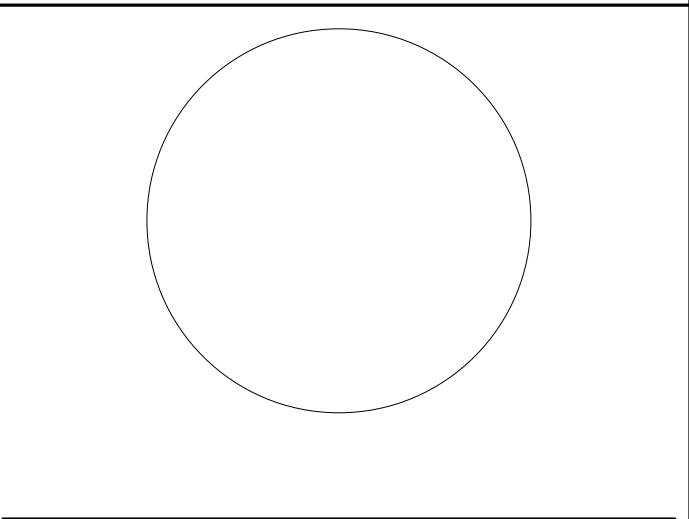
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1 BUILDING NO. 1 - LEVEL 4 - MECHANICAL PIPING PLAN SCALE: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E.

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM

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

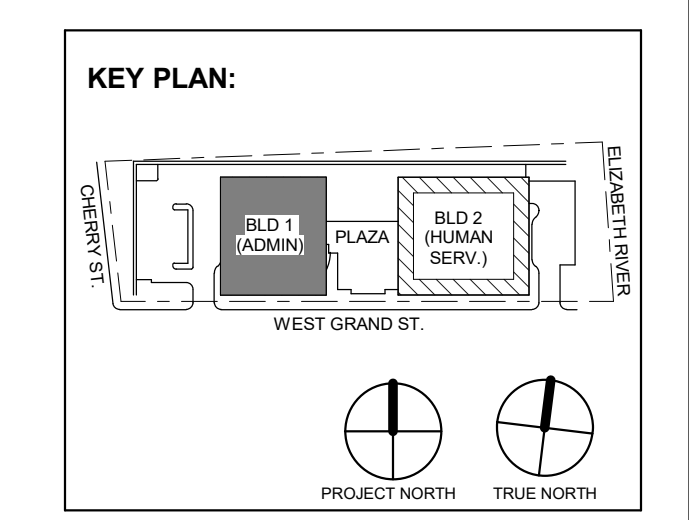


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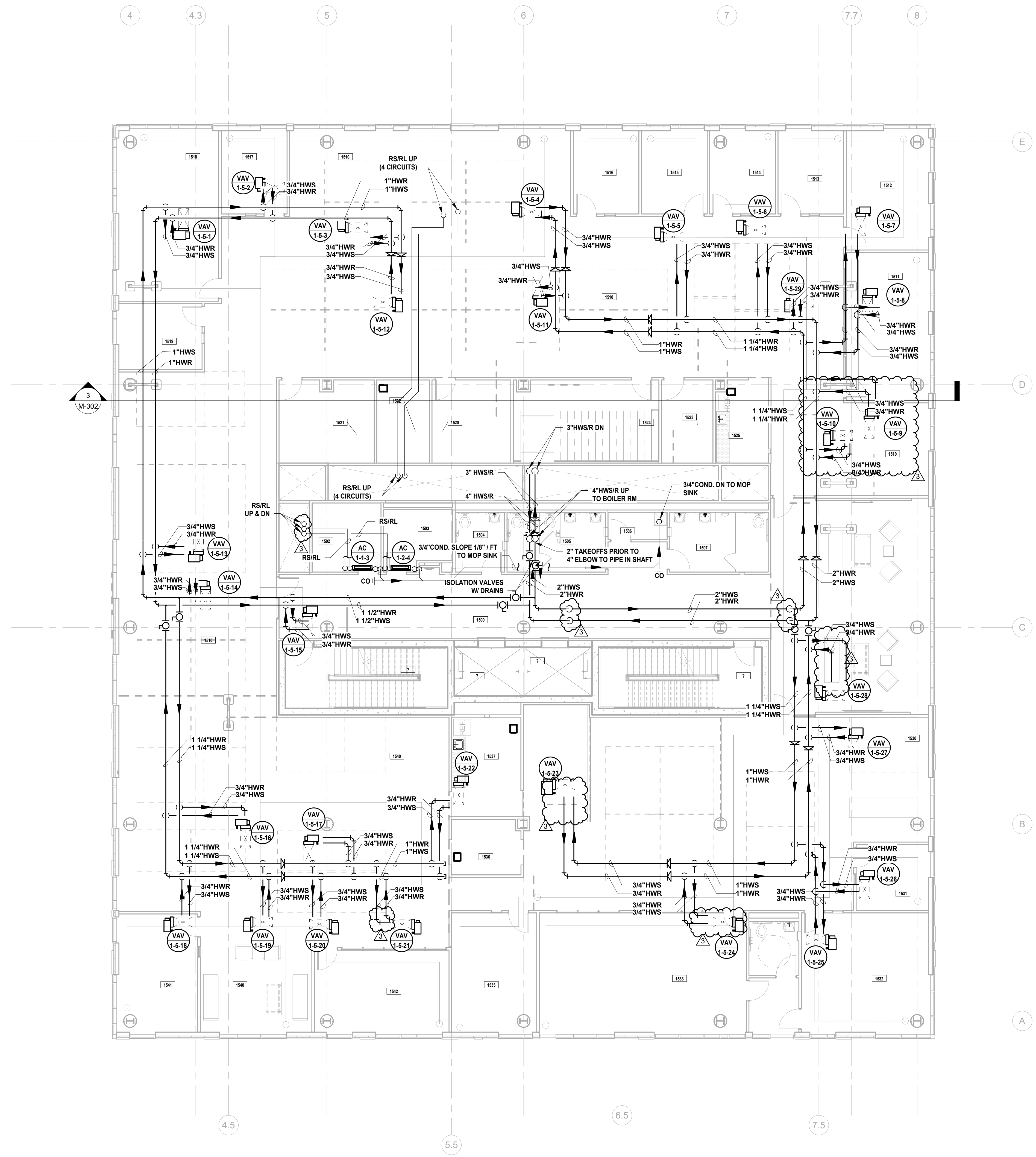
Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - MECHANICAL PIPING PLAN

Sheet No: M-205

MECHANICAL SYSTEM NOTES

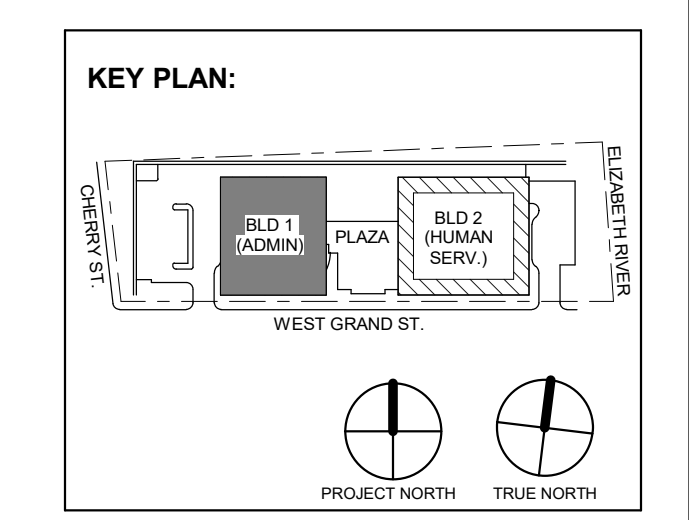
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 - G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.



1 BUILDING NO. 1 - LEVEL 5 - MECHANICAL PIPING PLAN
 M-206 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"

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 119 Cherry Hill Road, Suite 110
 Parsippany, NJ 07054
 862.207.8900 www.h2m.com
 NJ Landscape Architecture Certificate No.: 21MH0010300
 NJ Engineering Certificate of Authorization No.: 24GA26019100

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



No.	Date	Description
3	12/15/2023	Addendum No. 3
	11/08/2023	For Public Bid

DIGroupArchitecture
 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/VPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 1 - LEVEL 5 - MECHANICAL PIPING PLAN

Sheet No:
M-206

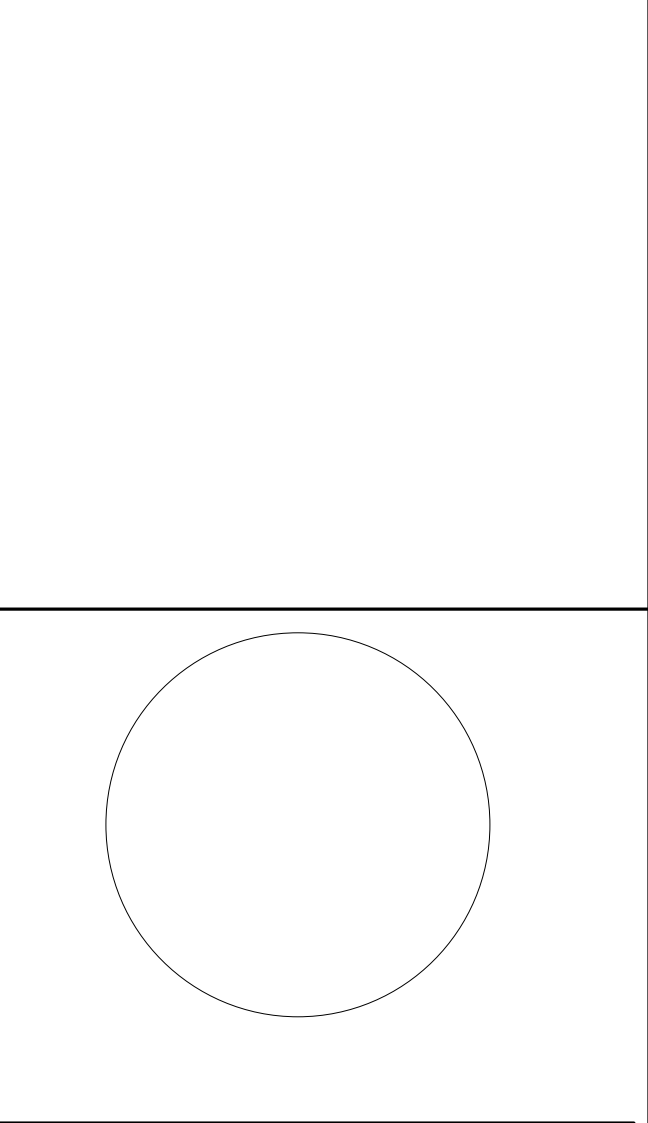


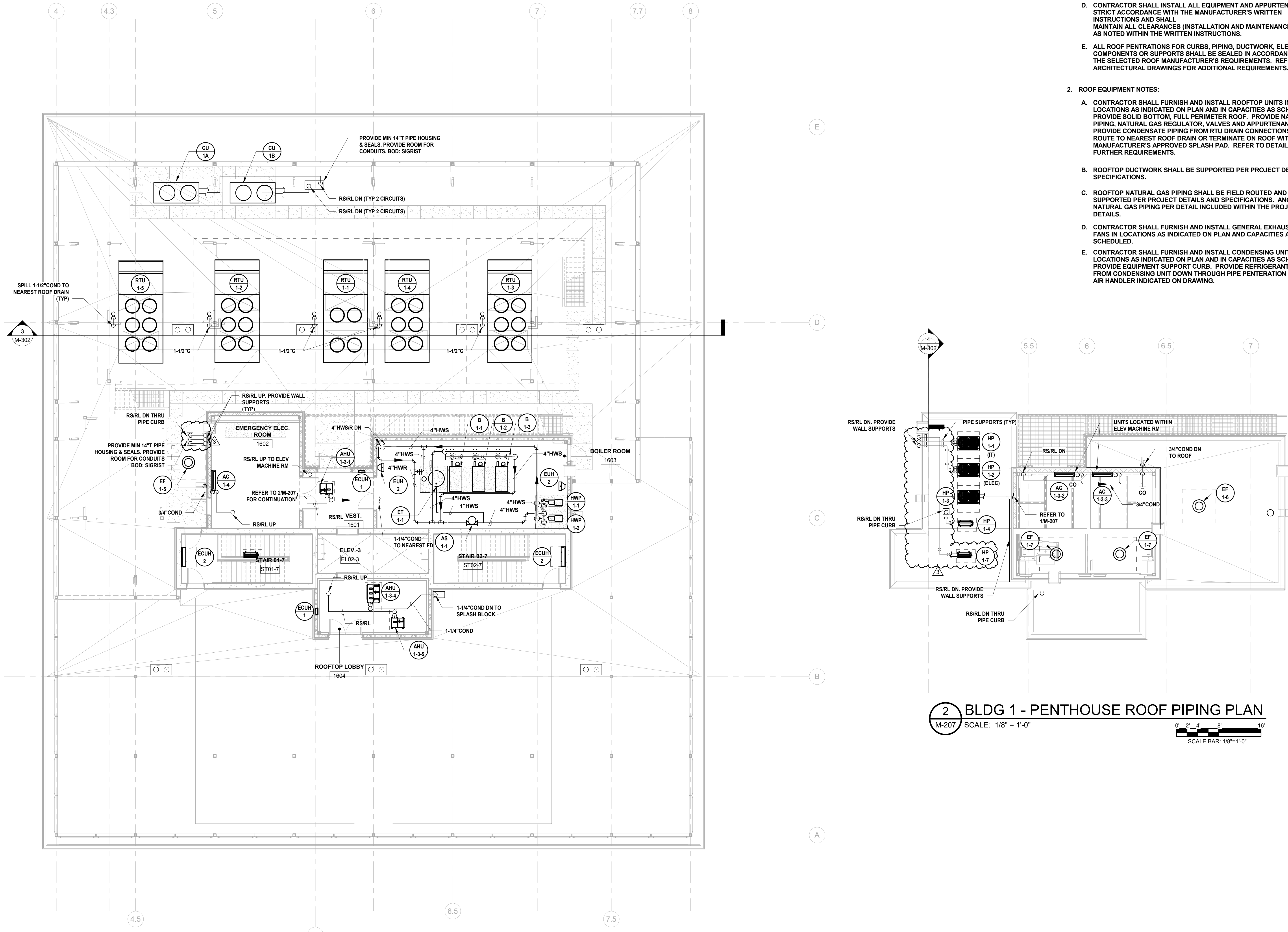
Table with project details: DESIGNED BY (JSK/DKR), DRAWN BY (DKR), CHECKED BY (JSK), REVIEWED BY (JCM), PROJECT No. (DIGA2301), DATE (11/08/2023), SCALE (AS SHOWN).

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. 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. E. ALL ROOF PENETRATIONS FOR CURBS, PIPING, DUCTWORK, ELECTRICAL COMPONENTS OR SUPPORTS SHALL BE SEALED IN ACCORDANCE WITH THE SELECTED ROOF MANUFACTURER'S REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

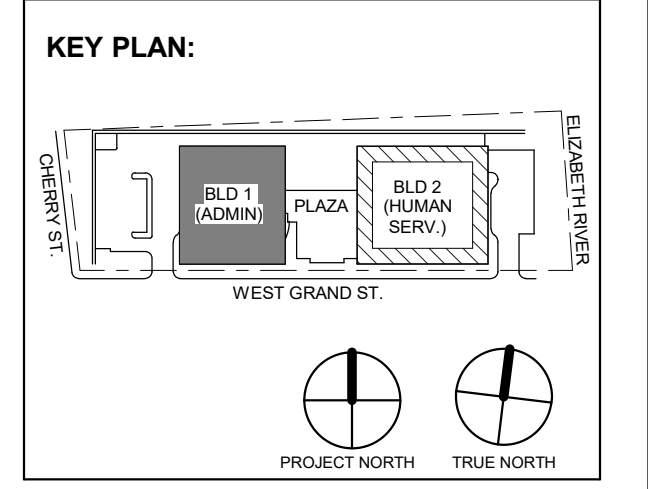
2. ROOF EQUIPMENT NOTES:

- A. CONTRACTOR SHALL FURNISH AND INSTALL ROOFTOP UNITS IN LOCATIONS AS INDICATED ON PLAN AND IN CAPACITIES AS SCHEDULED. PROVIDE SOLID BOTTOM, FULL PERIMETER ROOF. PROVIDE NATURAL GAS PIPING, NATURAL GAS REGULATOR, VALVES AND APPURTENANCES. PROVIDE CONDENSATE PIPING FROM RTU DRAIN CONNECTIONS AND ROUTE TO NEAREST ROOF DRAIN OR TERMINATE ON ROOF WITH ROOFING MANUFACTURER'S APPROVED SPLASH PAD. REFER TO DETAILS FOR FURTHER REQUIREMENTS. B. ROOFTOP DUCTWORK SHALL BE SUPPORTED PER PROJECT DETAILS AND SPECIFICATIONS. C. ROOFTOP NATURAL GAS PIPING SHALL BE FIELD ROUTED AND SUPPORTED PER PROJECT DETAILS AND SPECIFICATIONS. ANCHOR NATURAL GAS PIPING PER DETAIL INCLUDED WITHIN THE PROJECT DETAILS. D. CONTRACTOR SHALL FURNISH AND INSTALL GENERAL EXHAUST FANS IN LOCATIONS AS INDICATED ON PLAN AND CAPACITIES AS SCHEDULED. PROVIDE EQUIPMENT SUPPORT CURB. PROVIDE REFRIGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH PIPE PENETRATION CURB TO AIR HANDLER INDICATED ON DRAWING.



1 BUILDING NO. 1 - ROOF - MECHANICAL PIPING PLAN M-207 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

2 BLDG 1 - PENTHOUSE ROOF PIPING PLAN M-207 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"



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

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Jeffrey D. Venezia, AIA NJ RA AI 00827100

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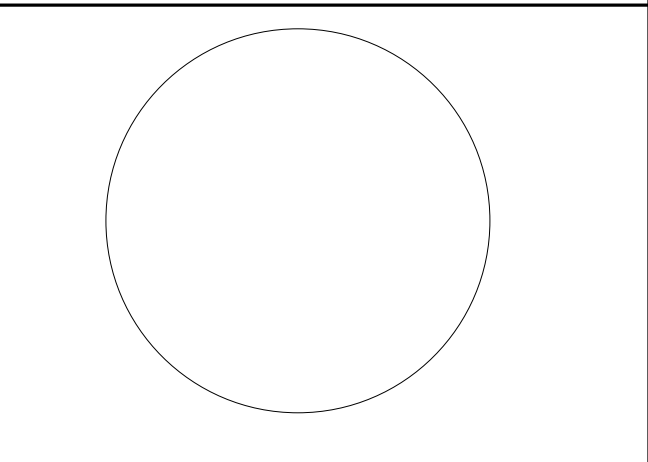
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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: BUILDING NO. 1 - ROOF - MECHANICAL PIPING PLAN

Sheet No: M-207



JOHN CHRIS MORRIS III, P.E. ATTORNEY OF THE DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT...

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM

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

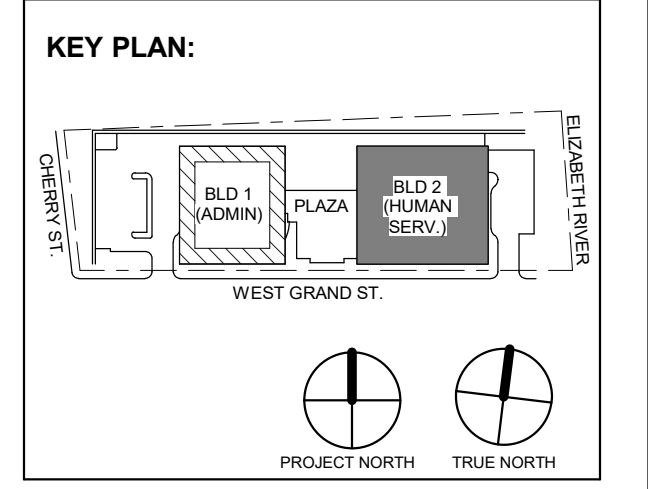


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Client: UNION COUNTY IMPROVEMENT AUTHORITY

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: JSK/AJPC Checked By: JM/SJ

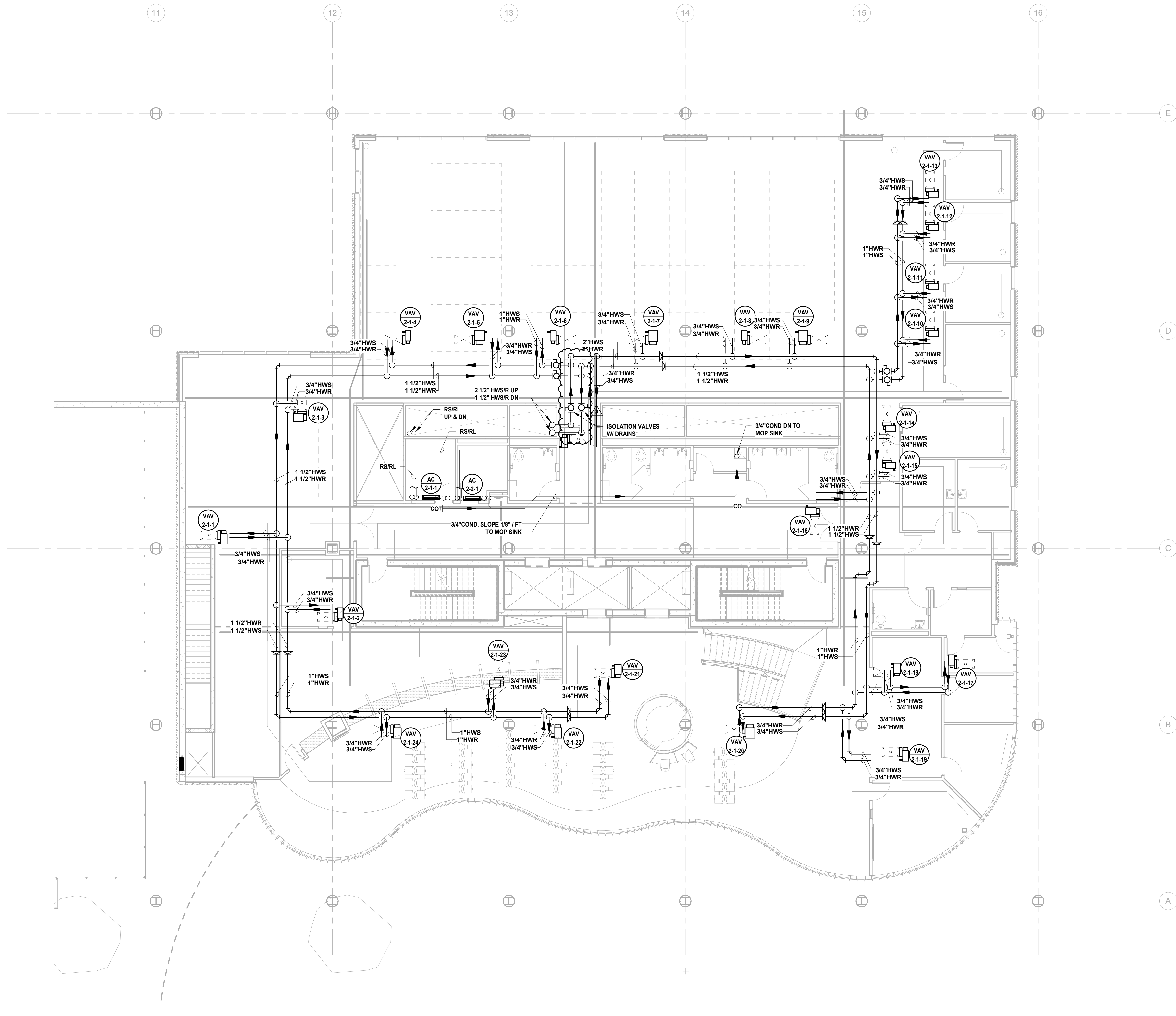
Sheet Name: BUILDING NO. 2 - LEVEL 1 - MECHANICAL PIPING PLAN

Sheet No:

M-211

MECHANICAL SYSTEM NOTES

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. 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. 2. PIPING SYSTEM NOTES: A. CONTRACTOR SHALL FIELD ROUTE FINAL CONNECTIONS TO ALL EQUIPMENT. FINAL CONNECTIONS INCLUDING VALVES AND APPURTENANCES SHALL BE PER PROJECT DETAILS. B. CONTRACTOR SHALL PROVIDE ADDITIONAL ISOLATION VALVES FOR ALL BRANCH PIPING CONTAINING TWO OR MORE VARIABLE AIR VOLUME BOXES. REFER TO SPECIFICATIONS FOR VALVE TYPE AND CHARACTERISTICS BASED ON PIPE SIZE. C. CONTRACTOR SHALL PROVIDE DRAIN VALVES AT MAIN BRANCH ISOLATION VALVES ON EACH FLOOR FOR "MAIN BRANCH ISOLATION." D. CONTRACTOR SHALL PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM. E. CONTRACTOR SHALL SLOPE ALL CONDENSATE AT A MINIMUM HORIZONTAL SLOPE OF 1% IN THE DIRECTION OF DISCHARGE. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HILTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.



1 BUILDING NO. 2 - LEVEL 1 - MECHANICAL PIPING PLAN M-211 SCALE: 1/8" = 1'-0" SCALE BAR: 0' 2' 4' 8' 16"

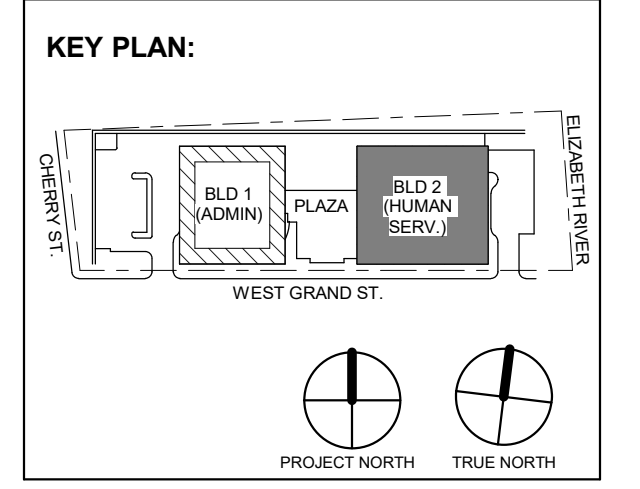


Table with 3 columns: No., Date, Description. Row 1: 3, 12/15/2023, Addendum No. 3. Row 2: 11/08/2023, For Public Bid.

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: JSK/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 2 - MECHANICAL PIPING PLAN

Sheet No: M-212

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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: JSK/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 2 - MECHANICAL PIPING PLAN

Sheet No: M-212

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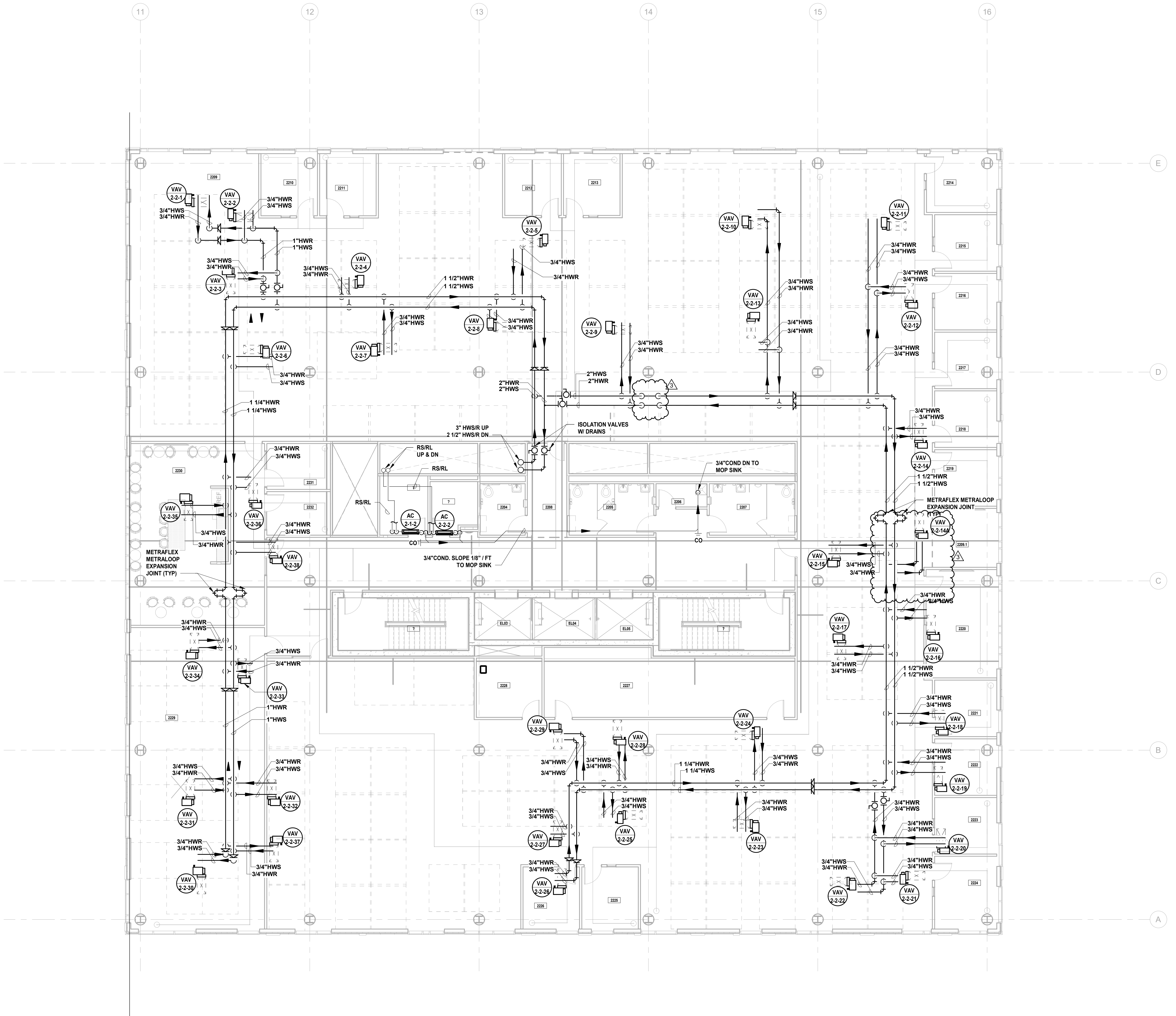
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX

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

MECHANICAL SYSTEM NOTES

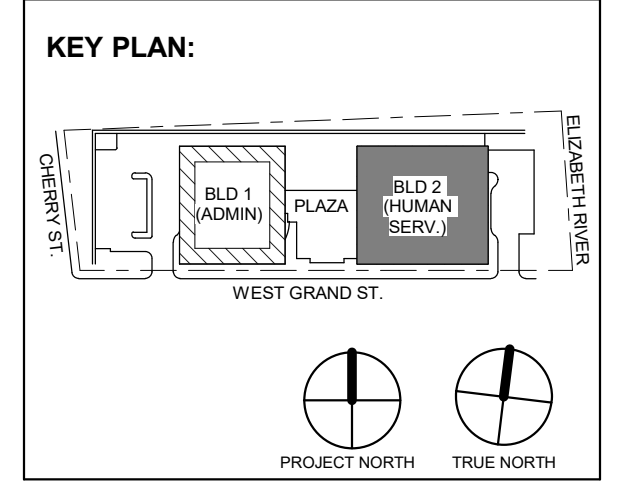
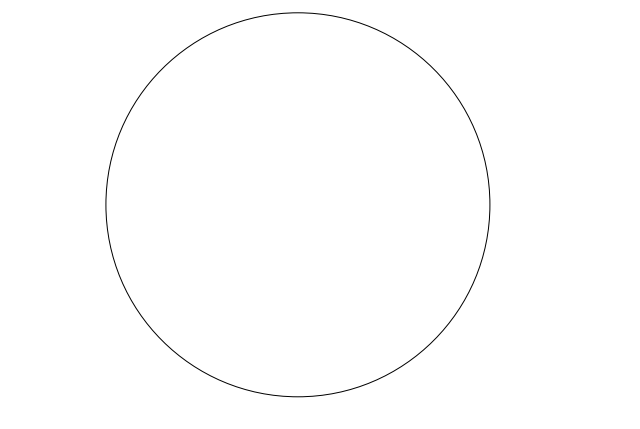
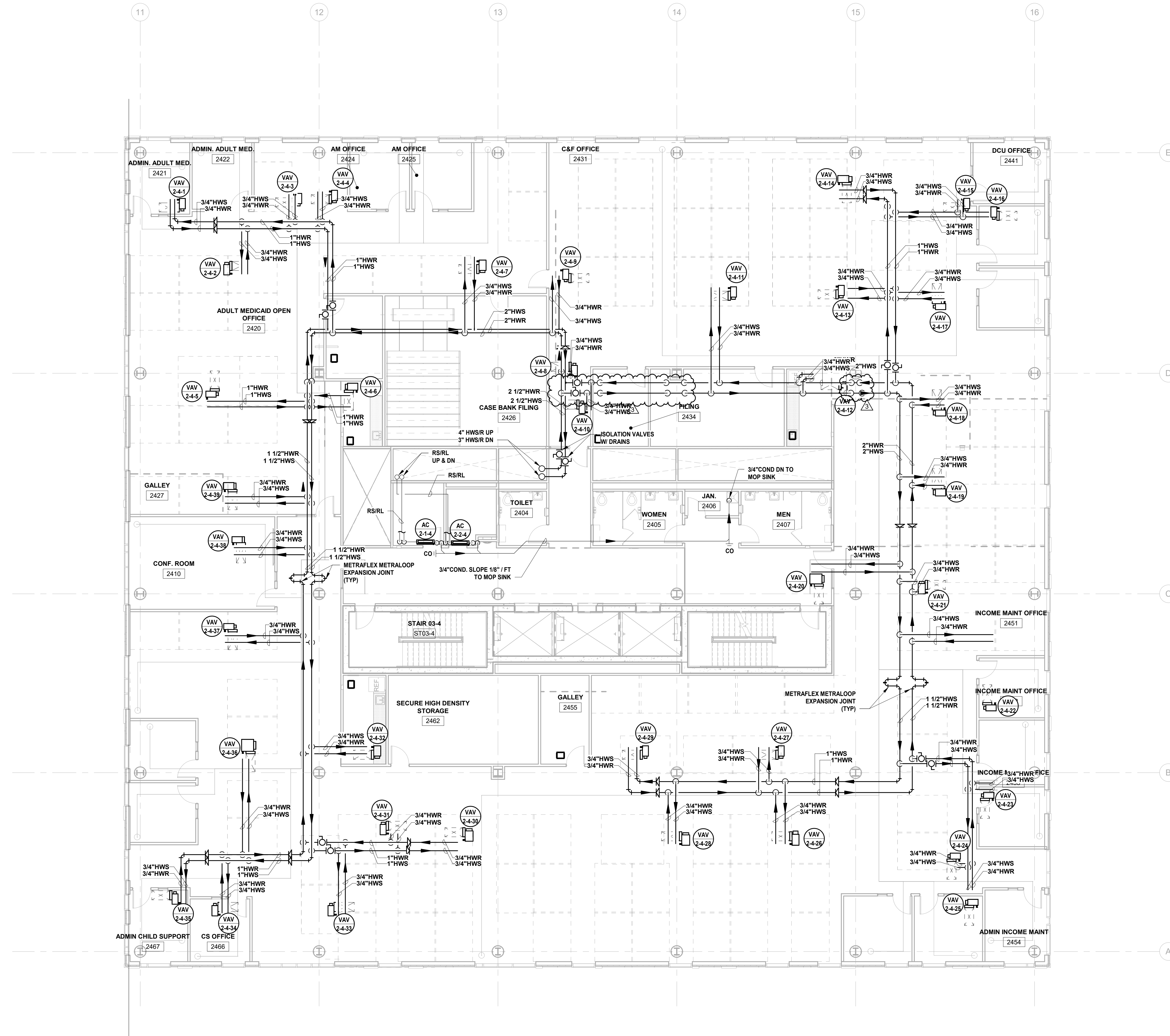
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1 BUILDING NO. 2 - LEVEL 2 - MECHANICAL PIPING PLAN M-212 SCALE: 1/8" = 1'-0" SCALE BAR: 0' 2' 4' 8' 16" SCALE: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. 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. 2. PIPING SYSTEM NOTES: A. CONTRACTOR SHALL FIELD ROUTE FINAL CONNECTIONS TO ALL EQUIPMENT. FINAL CONNECTIONS INCLUDING VALVES AND APPURTENANCES SHALL BE PER PROJECT DETAILS. B. CONTRACTOR SHALL PROVIDE ADDITIONAL ISOLATION VALVES FOR ALL BRANCH PIPING CONTAINING TWO OR MORE VARIABLE AIR VOLUME BOXES. REFER TO SPECIFICATIONS FOR VALVE TYPE AND CHARACTERISTICS BASED ON PIPE SIZE. C. CONTRACTOR SHALL PROVIDE DRAIN VALVES AT MAIN BRANCH ISOLATION VALVES ON EACH FLOOR FOR "MAIN BRANCH ISOLATION." D. CONTRACTOR SHALL PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM. E. CONTRACTOR SHALL SLOPE ALL CONDENSATE AT A MINIMUM HORIZONTAL SLOPE OF 1% IN THE DIRECTION OF DISCHARGE. F. 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. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.



3 12 15 2023 Addendum No. 3
11 08 2023 For Public Bid
No. Date Description
Revisions / Issues

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Jeffrey D. Venezia, AIA
NJ RA AI 05827100

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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: JSK/AJPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 4 - MECHANICAL PIPING PLAN

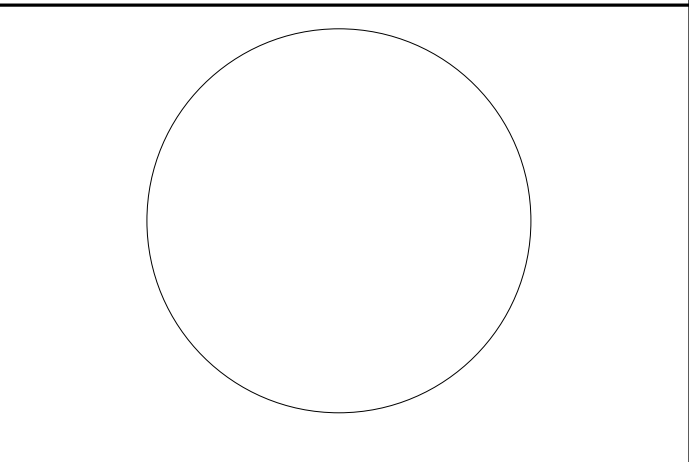
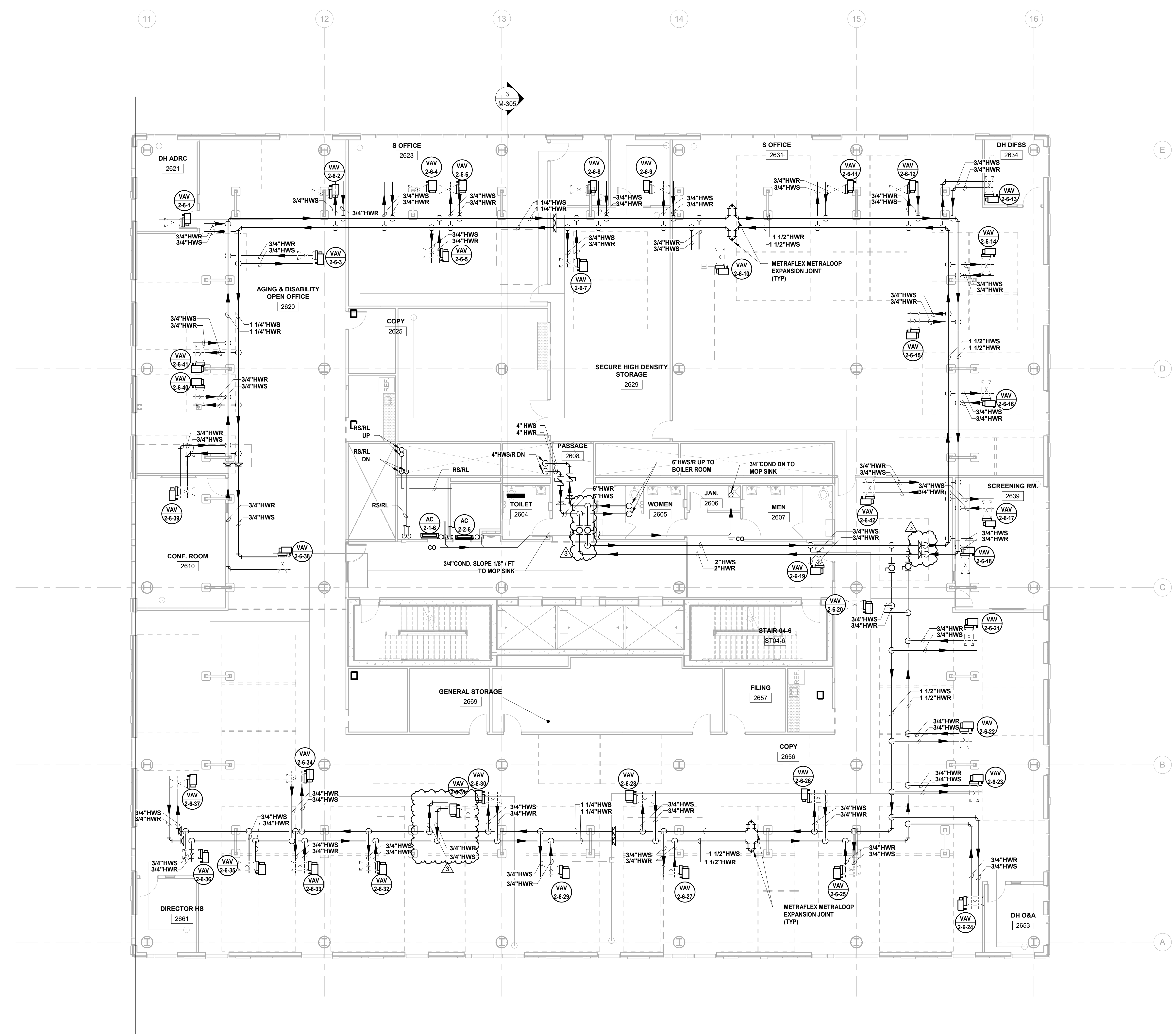
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M-214

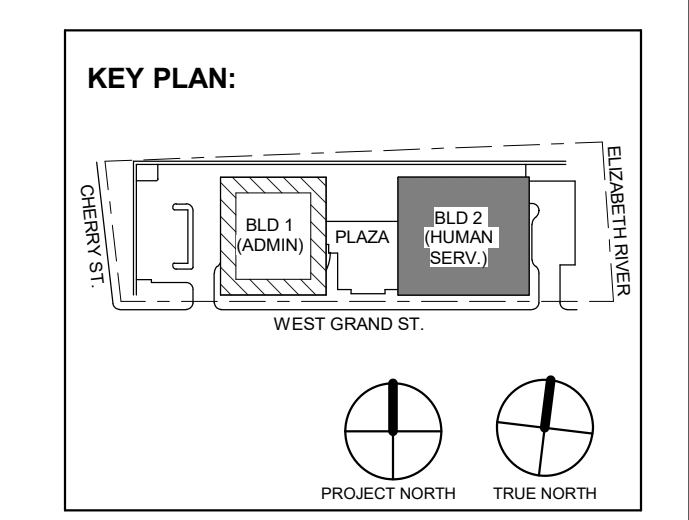
1 BUILDING NO. 2 - LEVEL 4 - MECHANICAL PIPING PLAN
M-214 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES

1. GENERAL NOTES:
 - A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
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JOHN CHRIS MORRIS III, P.E.
 A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY
 DESIGNER BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM
 PROJECT No: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



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	11/08/2023	For Public Bid	

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Jeffrey D. Venezia, AIA
 NJ RA AI 03827100



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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:
BUILDING NO. 2 - LEVEL 6 - MECHANICAL PIPING PLAN

Sheet No:
M-216

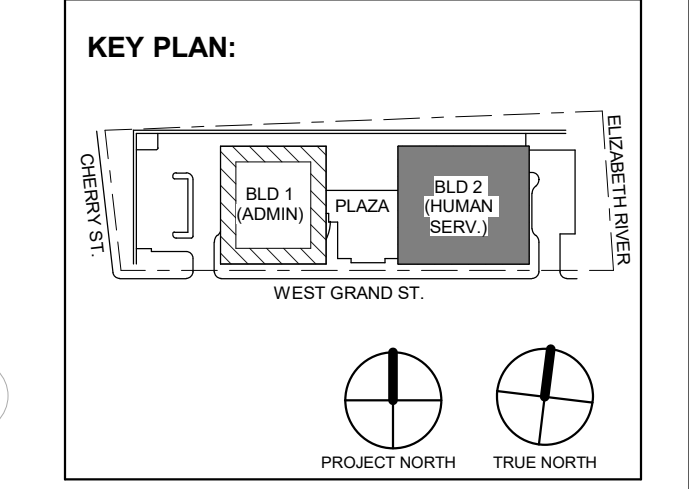
1 BUILDING NO. 2 - LEVEL 6 - MECHANICAL PIPING PLAN
 M-216 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"

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.
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 - CONTRACTOR SHALL FURNISH AND INSTALL CONDENSING UNITS IN LOCATIONS AS INDICATED ON PLAN AND IN CAPACITIES AS SCHEDULED. PROVIDE EQUIPMENT SUPPORT CURB. PROVIDE REFRIGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH PIPE PENETRATION CURB TO AIR HANDLER INDICATED ON DRAWING.

JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER (No. 34888888)

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
JSK/DKR	DKR	JSK	JCM
PROJECT No:	DATE:	SCALE:	AS SHOWN
DIG2301	11/08/2023		



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Client:
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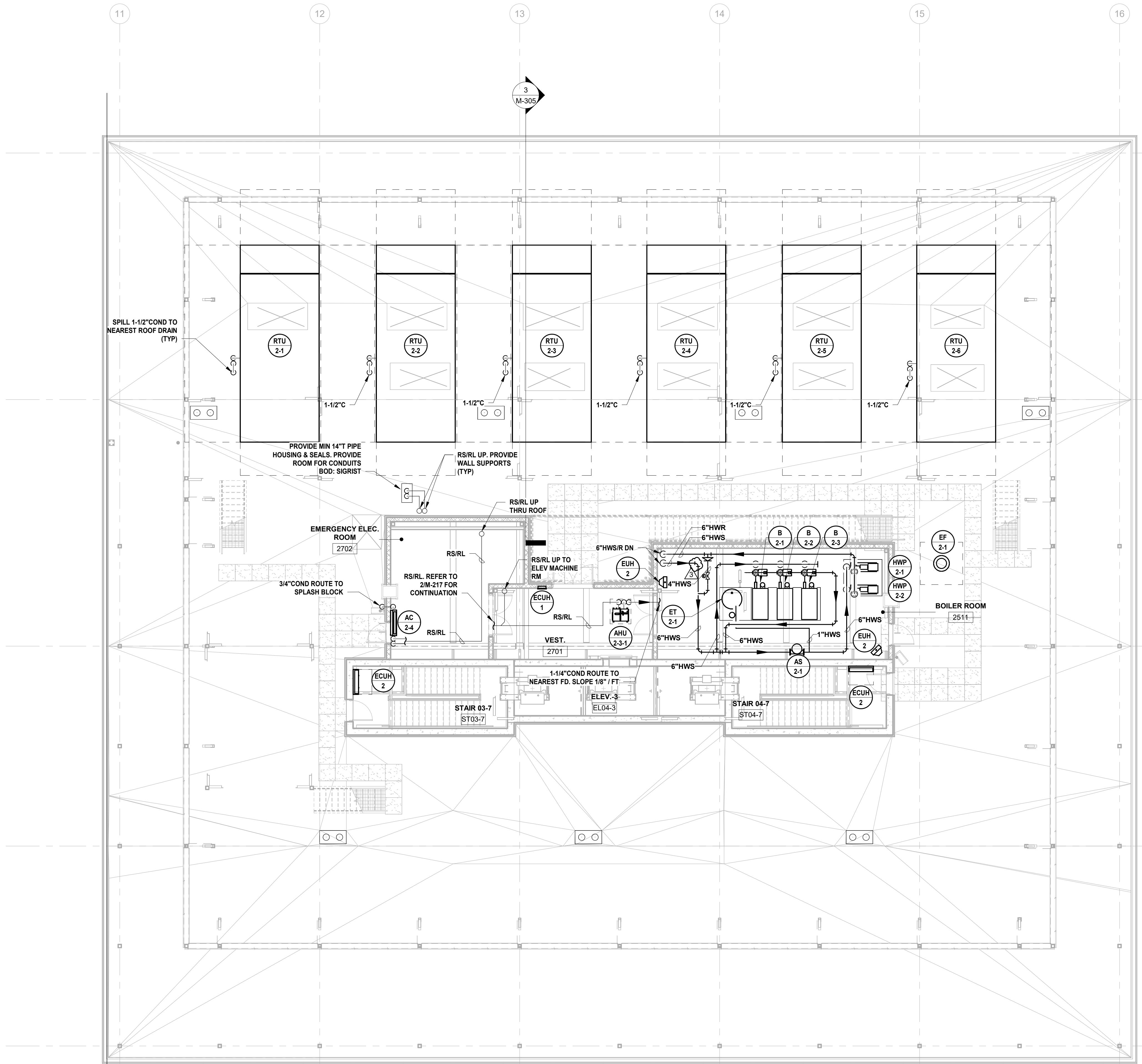
Project:
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Checked By: JMSH

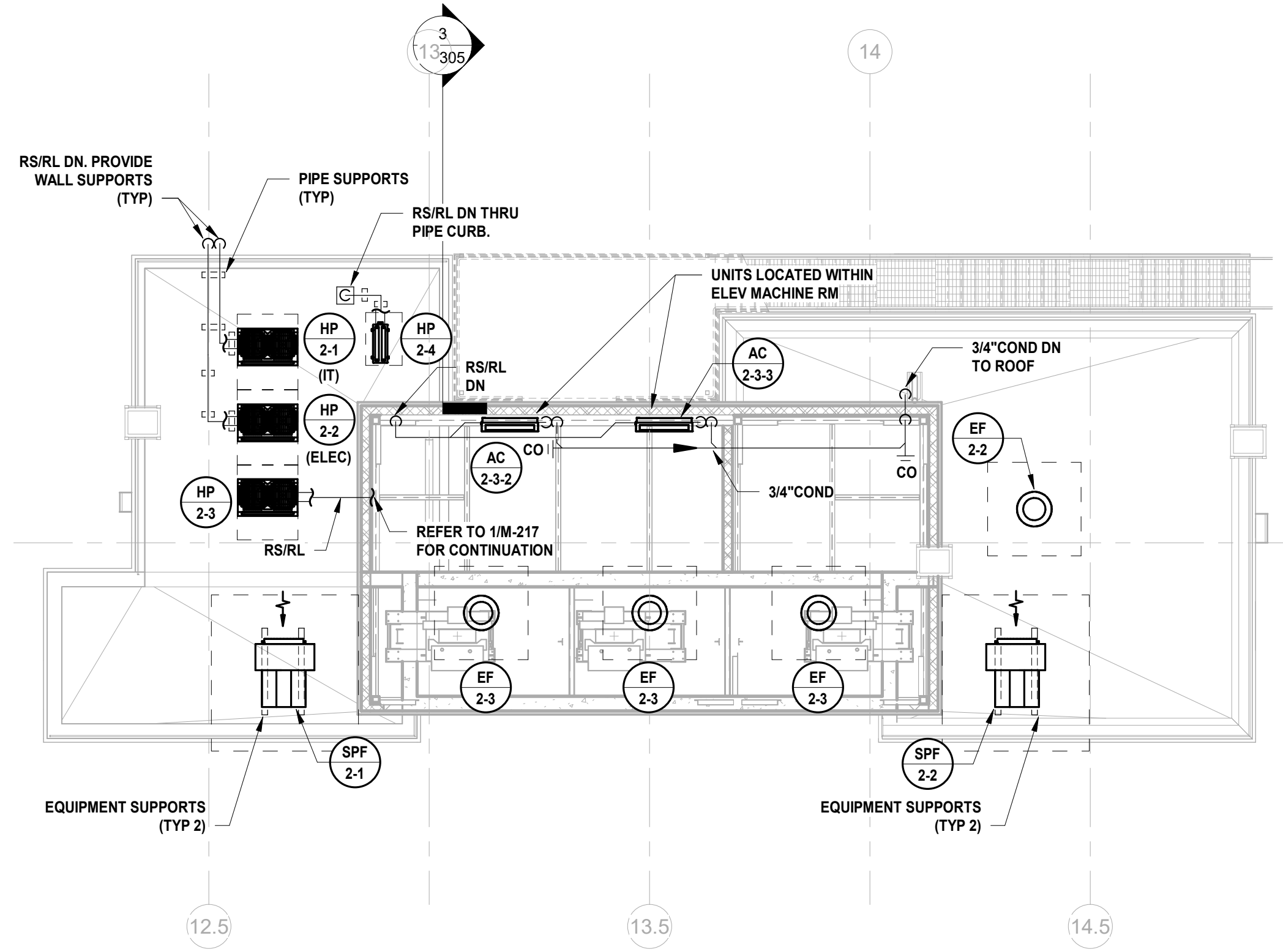
Sheet Name:
BUILDING NO. 2 - ROOF - MECHANICAL PIPING PLAN

Sheet No:

M-217



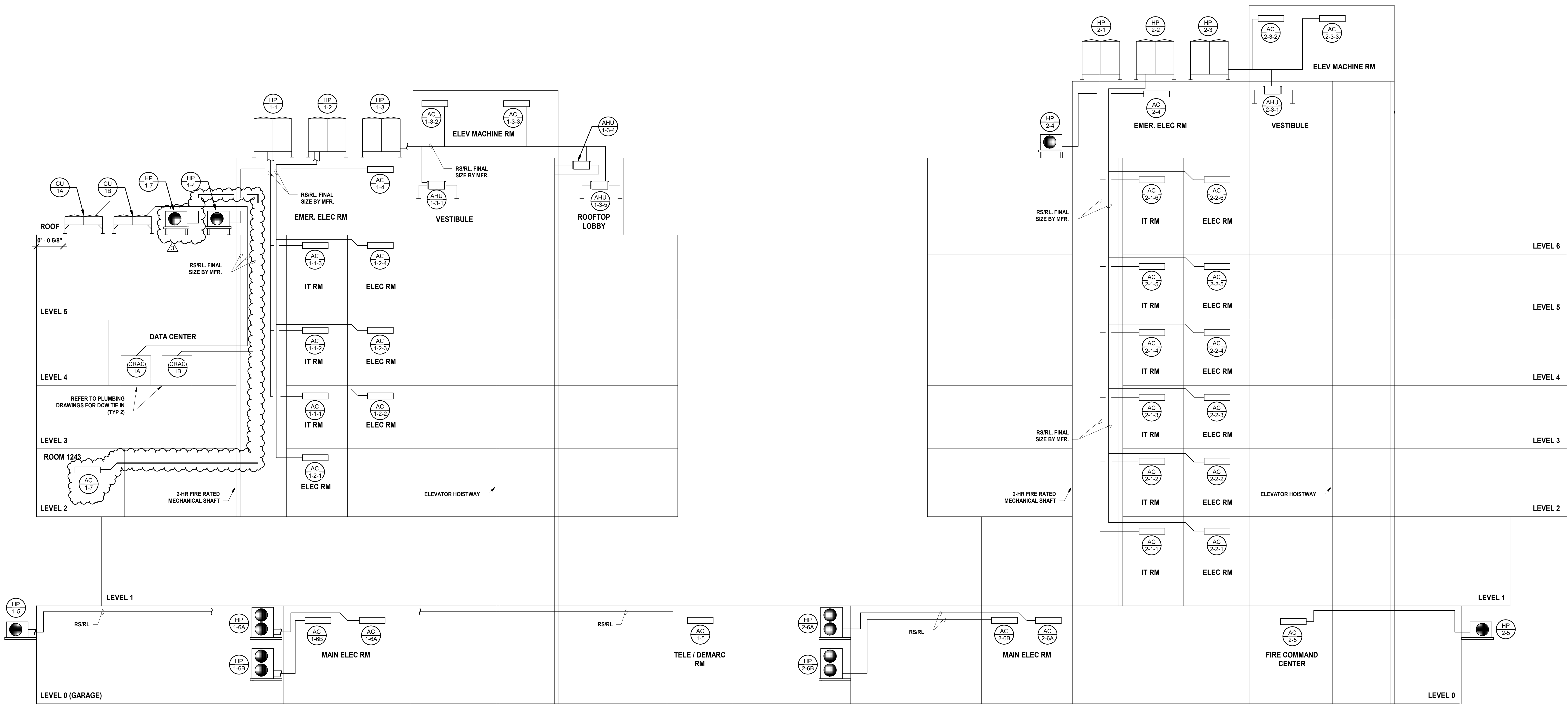
1 BUILDING NO. 2 - ROOF - MECHANICAL PIPING PLAN
M-217 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



2 BLDG 2 - PENTHOUSE ROOF PIPING PLAN
M-217 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

12/14/2023 12:48:16 PM

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119 Cherry Hill Road, Suite 110
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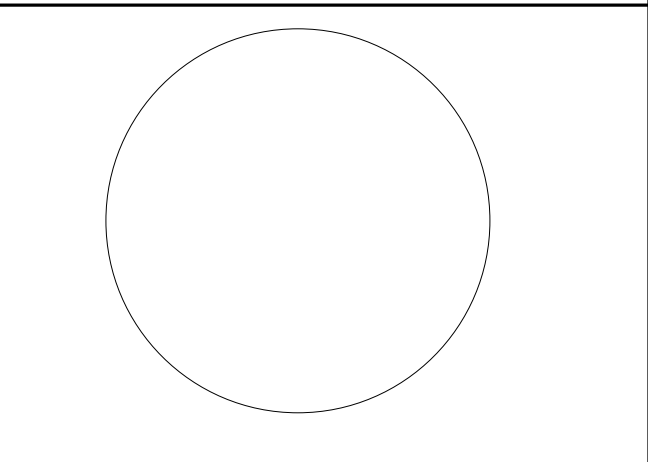


BUILDING NO. 1

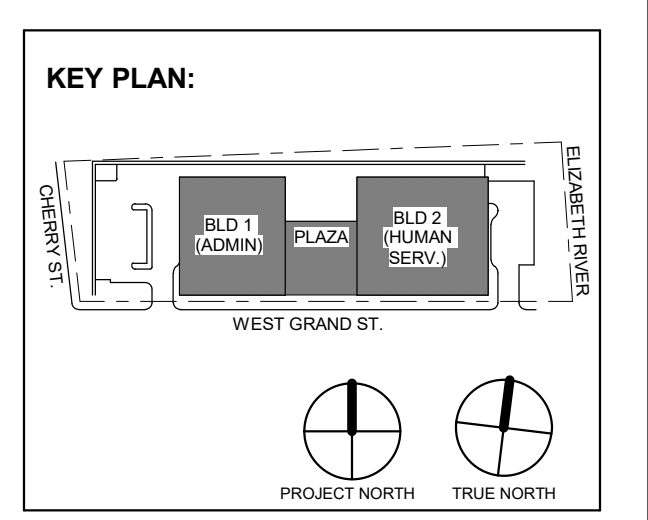
BUILDING NO. 2

**MECHANICAL BUILDING NO. 1 & 2
VRF/SUPPLEMENTAL COOLING
SYSTEM RISER DIAGRAM**
SCALE: N.T.S.

1
M-301



JOHN CHRIS MORRIS III, P.E.
ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER.
DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JSK REVIEWED BY: JCM
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revisions / Issues

No.	Date	Description
3	12/15/2023	Addendum No. 3
2	12/08/2023	Addendum No. 2
1	11/08/2023	For Public Bid

DIGroupArchitecture
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/WPC
Checked By: JMSH

Sheet Name:
**BUILDING NO. 1 & 2 -
MECHANICAL VRF RISER
DIAGRAM**

Sheet No:
M-301

C:\Users\dragone2\Documents\DIGA2301_Centr-1123_M_Dragone2\VRV.rvt

EXHAUST FAN SCHEDULE table with columns: SYMBOL, SERVICE, LOCATION, CFM, ESP, MOTOR HP, FAN RPM, MOTOR FLA, ELECTRICAL, CONTROLLED BY, OPER WEIGHT (LBS), BASIS OF DESIGN, NOTES.

- NOTES: 1. PROVIDE PREMIUM EFFICIENCY MOTORS FOR ALL FANS. 2. PROVIDE 14" INSULATED ROOF CURB FOR ROOFTOP EXHAUST FANS. 3. PROVIDE VCD-23 PARALLEL BLADE MOTORIZED DAMPER...

COMPUTER ROOM AIR CONDITIONING UNIT table with columns: SYMBOL, LOCATION, CRAC-1A, CRAC-1B, SUPPLY AIR FAN, ELECTRICAL, WEIGHT, BASIS OF DESIGN, CONDENSING UNIT, COOLING, REHEAT COIL, CANNISTER HUMIDIFIER, REMARKS.

- NOTES: 1. ELECTRICAL REQUIREMENTS FOR ELECTRIC REHEAT ARE INCLUDED IN MCA AND MOP FOR THE AIR HANDLING UNIT. 2. SEE SPECIFICATION SHEETS FOR EQUIPMENT SPECIFICATIONS AND ACCESSORIES.

AIR TERMINAL DEVICE SCHEDULE table with columns: SYMBOL, SERVICE, TYPE, CFM RANGE, NECK SIZE, N.C, FACE OVERALL DIMENSIONS WxL (IN.), BASIS OF DESIGN, NOTES.

- NOTES: 1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. 2. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH THE CEILING/WALL CONSTRUCTION TYPE.

STAIRWELL PRESSURIZATION FAN SCHEDULE table with columns: SYMBOL, SERVICE, LOCATION, CFM, ESP, FAN RPM, MOTOR HP, ELECTRICAL, OPER WEIGHT (LBS), BASIS OF DESIGN, NOTES.

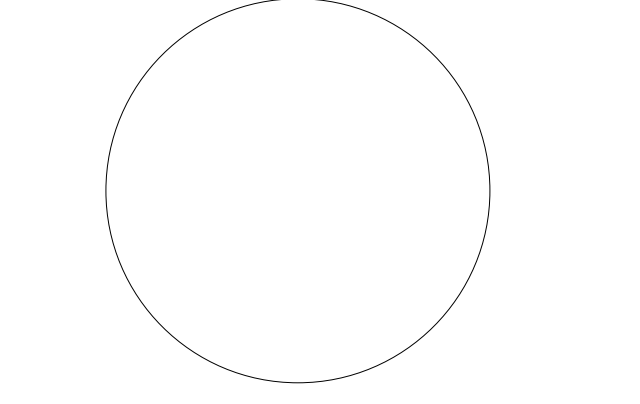
- NOTES: 1. PROVIDE INLET SCREEN. 2. MOUNT ON NEW ROOF MOUNTED EQUIPMENT SUPPORT RAILS WITH HOUSED SPRING ISOLATORS.

HEAT PUMP SCHEDULE table with columns: UNIT, MFR, MODEL, STYLE, INDOOR UNIT, SERVICING, REFRIGERANT, SUPPLY AIRFLOW CFM (HML), TOTAL COOLING CAP (MBH), TOTAL HEATING CAP (MBH), WEIGHT (LBS), OUTDOOR UNIT, EFFICIENCY, ELECTRICAL, WEIGHT (LBS), NOTES.

- NOTES: 1. PROVIDE ELECTRICAL DISCONNECT SWITCH - INDOOR AND OUTDOOR UNITS. INDOOR UNIT IS POWERED BY OUTDOOR UNIT. 2. PROVIDE ALL INTERCONNECTING CONTROL WIRE, REFRIGERANT PIPING, BETWEEN INDOOR AND OUTDOOR UNITS.

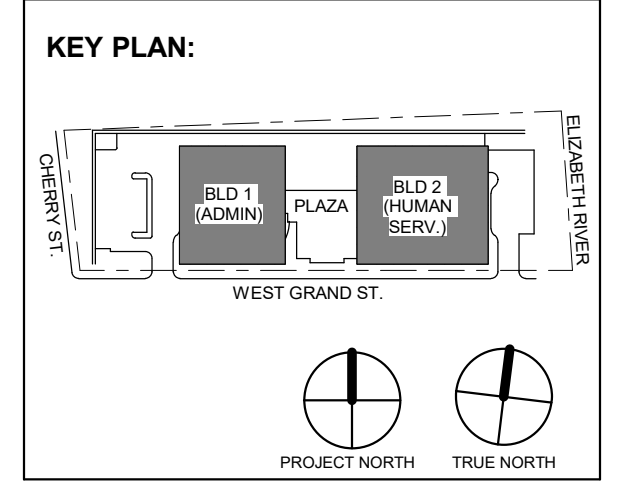
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119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com NJ Landscape Architecture Certificate No.: 21MH00010330 NJ Engineering Certificate of Authorization No.: 24GA28019100



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

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM PROJECT No: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



3 12/15/2023 Addendum No. 3 2 12/08/2023 Addendum No. 2 11/08/2023 For Public Bid

DIGroupArchitecture 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. Venezia, AIA NJ RA AI 00827100

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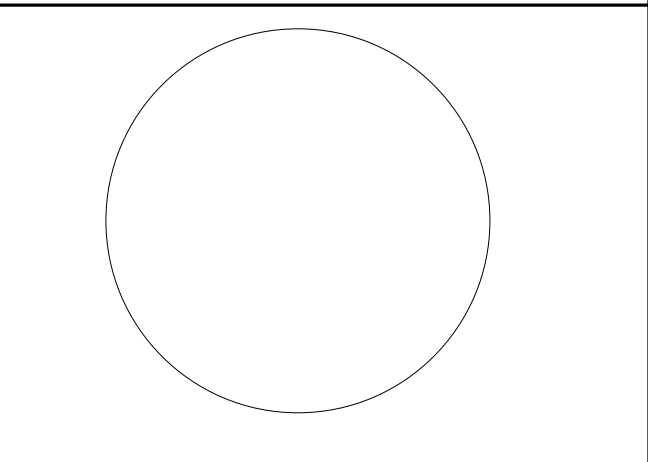
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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

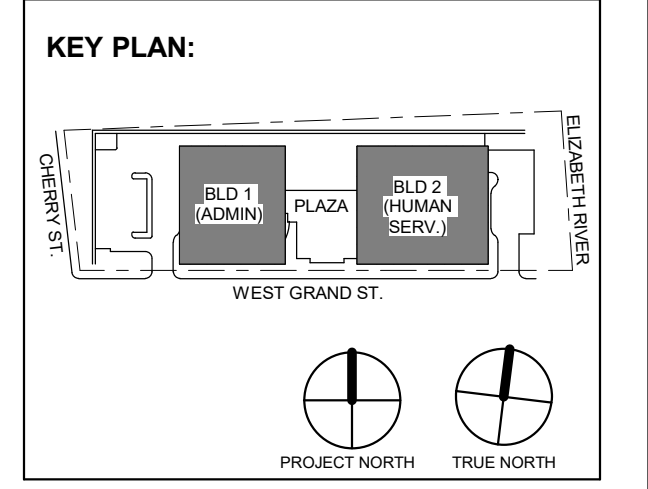
Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JSK/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1&2 - MECHANICAL SCHEDULES (2 OF 5)

Sheet No: M-402



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: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



3	12/15/2023	Addendum No. 3
2	12/08/2023	Addendum No. 2
1	11/08/2023	For Public Bid

No. Date Description
Revisions / Issues

DIGroupArchitecture
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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/WPC
Checked By: JMSH

Sheet Name:
BUILDING NO. 1&2 - MECHANICAL SCHEDULES (3 OF 5)

Sheet No:

M-403

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

SYMBOL (BLDG-FLR-#)	RTU	CFM			HOT WATER COIL						CONTROL POWER	BASIS OF DESIGN		NOTES	
		COOL MAX	COOLING/HEATING (33% MAX) CFM	HEAT MAX (50% MAX) CFM	MIN NET CAP	EAT	LAT	GPM	EWT	LWT		V/PH/HZ	MNF		MODEL NUMBER
		CFM			MBH	DEG F	DEG F		DEG F	DEG F					
VAV 1-0-1	1-1	340	115	170	7.4	55	95	0.49	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-0-2	1-1	480	160	240	10.4	55	95	0.69	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-0-3	1-1	1,120	375	560	24.3	55	95	1.82	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-1-1	1-1	1,005	335	505	21.9	55	95	1.46	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-1-2	1-1	570	190	285	12.4	55	95	0.82	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-1-3	1-1	870	290	435	18.9	55	95	1.28	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-1-4	1-1	300	100	150	6.5	55	95	0.43	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-1-5	1-1	800	265	400	17.4	55	95	1.16	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-1-6	1-1	1,700	565	850	36.9	55	95	2.46	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-1-7	1-1	600	200	300	13.0	55	95	0.87	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-1-8	1-1	1,650	550	825	35.8	55	95	2.39	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-1-9	1-1	300	100	150	6.5	55	95	0.43	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-1	1-2	514	170	255	11.1	55	95	0.74	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-2-2	1-2	256	85	130	5.6	55	95	0.38	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-3	1-2	233	80	115	5.0	55	95	0.33	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-4	1-2	260	85	130	5.6	55	95	0.38	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-5	1-2	252	85	125	5.4	55	95	0.36	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-6	1-2	1,104	370	550	23.9	55	95	1.59	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-2-7	1-2	339	115	170	7.4	55	95	0.49	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-8	1-2	128	45	65	2.8	55	95	0.19	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-9	1-2	286	95	145	6.3	55	95	0.42	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-10	1-2	1,110	370	555	24.1	55	95	1.61	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-2-11	1-2	707	235	355	15.4	55	95	1.03	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-2-12	1-2	646	215	325	14.1	55	95	0.94	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-2-13	1-2	129	45	65	2.8	55	95	0.19	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-14	1-2	126	40	65	2.8	55	95	0.19	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-15	1-2	895	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-2-16	1-2	1,710	570	855	37.1	55	95	2.47	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-2-17	1-2	250	85	125	5.4	55	95	0.36	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-2-18	1-2	1,250	415	625	27.1	55	95	1.81	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-2-19	1-2	1,250	415	625	27.1	55	95	1.81	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-2-20	1-2	1,250	415	625	27.1	55	95	1.81	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-2-21	1-2	1,250	415	625	27.1	55	95	1.81	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-2-22	1-2	895	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-2-23	1-2	1,358	450	680	29.5	55	95	1.97	150	120	120/1/60	PRICE	SDV-14	1-5	

- NOTES:
1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
 3. MANUFACTURER PROVIDED SOUND ATTENUATION
 4. 2-WAY VALVE PACKAGE. MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
 5. VERIFY COIL HANDEDNESS IN FIELD

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

SYMBOL (BLDG-FLR-#)	RTU	CFM			HOT WATER COIL						CONTROL POWER	BASIS OF DESIGN		NOTES	
		COOL MAX	COOLING/HEATING (33% MAX) CFM	HEAT MAX (50% MAX) CFM	MIN NET CAP	EAT	LAT	GPM	EWT	LWT		V/PH/HZ	MNF		MODEL NUMBER
		CFM			MBH	DEG F	DEG F		DEG F	DEG F					
VAV 1-4-1	1-4	274	90	135	5.9	55	95	0.39	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-2	1-4	659	220	330	14.3	55	95	0.95	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-3	1-4	200	65	100	4.3	55	95	0.29	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-4	1-4	230	75	115	5.0	55	95	0.33	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-5	1-4	246	80	125	5.4	55	95	0.36	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-6	1-4	486	160	245	10.6	55	95	0.71	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-4-7	1-4	260	85	130	5.6	55	95	0.38	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-8	1-4	970	325	485	21.0	55	95	1.40	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-4-9	1-4	659	220	330	14.3	55	95	0.95	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-10	1-4	659	220	330	14.3	55	95	0.95	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-11	1-4	467	155	235	10.2	55	95	0.68	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-4-12	1-4	1,390	465	695	30.2	55	95	2.01	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-4-13	1-4	680	225	340	14.8	55	95	0.98	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-14	1-4	760	255	380	16.5	55	95	1.10	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-15	1-4	951	315	475	20.6	55	95	1.37	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-4-16	1-4	1,170	390	585	25.4	55	95	1.69	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-4-17	1-4	665	220	335	14.5	55	95	0.97	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-18	1-4	903	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-19	1-4	996	330	500	21.7	55	95	1.45	150	120	120/1/60	PRICE	SDV-12	1-5	
VAV 1-4-20	1-4	903	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-21	1-4	903	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-22	1-4	174	60	95	3.7	55	95	0.25	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-23	1-4	456	150	230	10.0	55	95	0.67	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-4-24	1-4	173	55	95	3.7	55	95	0.25	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-4-25	1-4	903	300	450	19.5	55	95	1.30	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-4-26	1-4	430	145	215	9.3	55	95	0.62	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-4-27	1-4	760	255	380	16.5	55	95	1.10	150	120	120/1/60	PRICE	SDV-10	1-5	

- NOTES:
1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
 3. MANUFACTURER PROVIDED SOUND ATTENUATION
 4. 2-WAY VALVE PACKAGE. MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
 5. VERIFY COIL HANDEDNESS IN FIELD

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

SYMBOL (BLDG-FLR-#)	RTU	CFM			HOT WATER COIL						CONTROL POWER	BASIS OF DESIGN		NOTES	
		COOL MAX	COOLING/HEATING (33% MAX) CFM	HEAT MAX (50% MAX) CFM	MIN NET CAP	EAT	LAT	GPM	EWT	LWT		V/PH/HZ	MNF		MODEL NUMBER
		CFM			MBH	DEG F	DEG F		DEG F	DEG F					
VAV 1-3-1	1-3	814	270	405	17.58	55	95	1.17	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-3-2	1-3	253	85	125	5.43	55	95	0.36	150	120	120/1/60	PRICE	SDV-6	1-5	
VAV 1-3-3	1-3	475	160	240	10.42	55	95	0.69	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-3-4	1-3	475	160	240	10.42	55	95	0.69	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-3-5	1-3	475	160	240	10.42	55	95	0.69	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-3-6	1-3	610	205	305	13.24	55	95	0.88	150	120	120/1/60	PRICE	SDV-10	1-5	
VAV 1-3-7	1-3	475	160	240	10.42	55	95	0.69	150	120	120/1/60	PRICE	SDV-8	1-5	
VAV 1-3-8	1-3	1,320	440	660	28.64	55	95	1.91	150	120	120/1/60	PRICE	SDV-14	1-5	
VAV 1-3-9	1-3	475	160	240	10.42	55	95	0.69	150	120	120/1/60	PRICE			

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-0-1 through VAV 2-1-25.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH... 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-3-1 through VAV 2-3-38.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH... 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-2-1 through VAV 2-2-34.

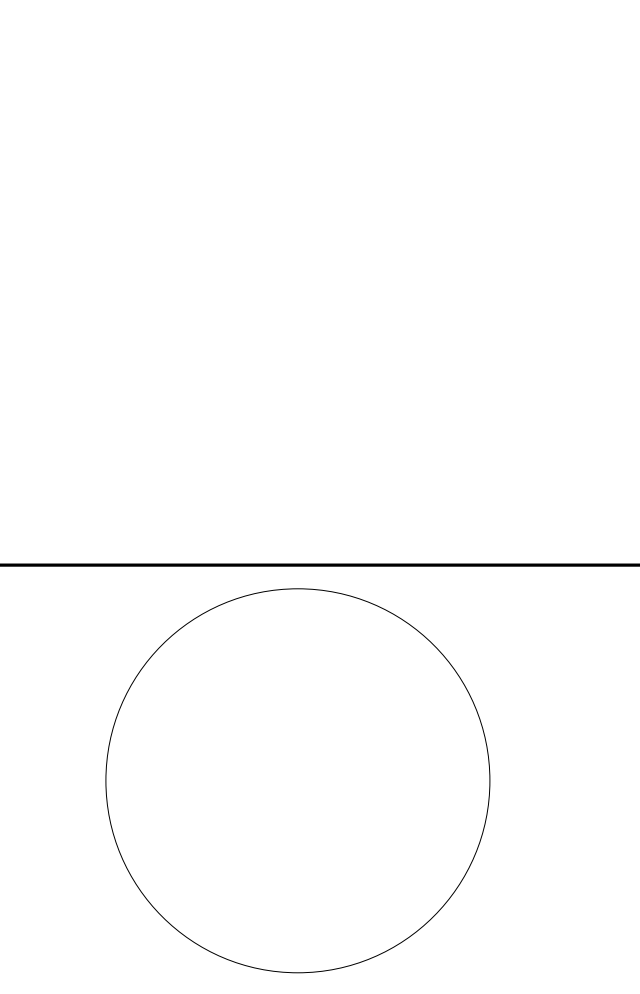
- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH... 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-4-1 through VAV 2-4-39.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH... 5. VERIFY COIL HANDEDNESS IN FIELD.

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

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, PROJECT NO., DATE, SCALE. Values include JSK/DKR, DKR, JSK, JCM, DGA2301, 11/08/2023, AS SHOWN.

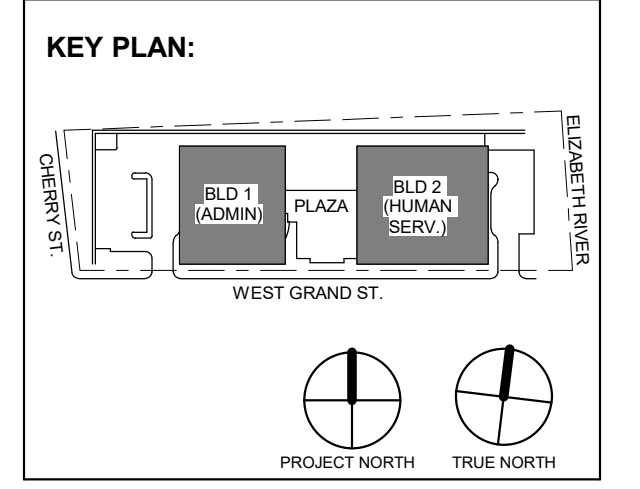


Table with columns: No., Date, Description, Revisions / Issues. Row 3: 12/15/2023, Addendum No. 3, 11/08/2023, For Public Bid.

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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 & 93 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&2 - MECHANICAL SCHEDULES (4 OF 5)

Sheet No: M-404

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-5-1 through VAV 2-5-35.

- VAV NOTES:
1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER, DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
3. MANUFACTURER PROVIDED SOUND ATTENUATION
4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
5. VERIFY COIL HANDEDNESS IN FIELD

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-6-1 through VAV 2-6-42.

- VAV NOTES:
1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER, DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
3. MANUFACTURER PROVIDED SOUND ATTENUATION
4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
5. VERIFY COIL HANDEDNESS IN FIELD

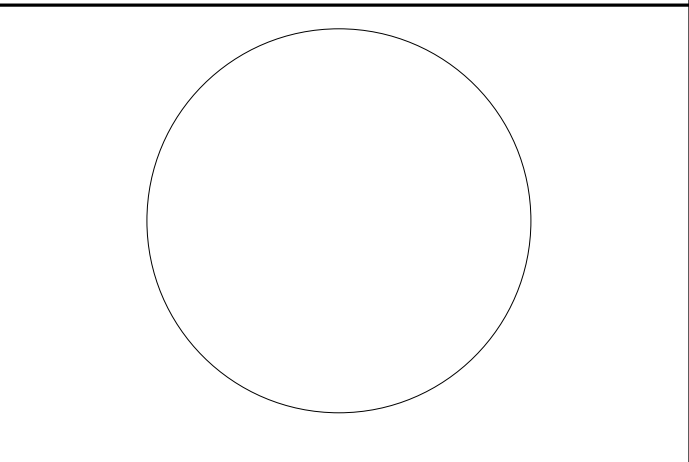
REFRIGERANT DENSITY CALCULATION

Table with columns: SYSTEM, REFR. TYPE, TOTAL REFR. AMOUNT (LBS), SMALLEST ROOM ZONE, ZONE SMALLEST SPACE, TOTAL AREA (SQFT.), ZONE SMALLEST SPACE, TOTAL VOLUME (FT^3), REFR. DENSITY (LB/1000FT^3). Rows include CU-1-1, CU-1-2, CU-1-3, HP-1-4, HP-1-5, HP-1-6A, HP-1-6B, CU-2-1, CU-2-2, CU-2-3, HP-2-4, HP-2-5, HP-2-6A, HP-2-6B.

- NOTES:
1. LINE LENGTHS ARE ESTIMATED BY MANUFACTURER VRF DESIGN SOFTWARE. REFRIGERANT LINE LENGTHS, SIZES & CHARGES TO BE VERIFIED BY EQUIPMENT MANUFACTURER.
2. CONTRACTOR TO NOTIFY ENGINEER IF ADDITIONAL SYSTEM CHARGE IS REQUIRED.

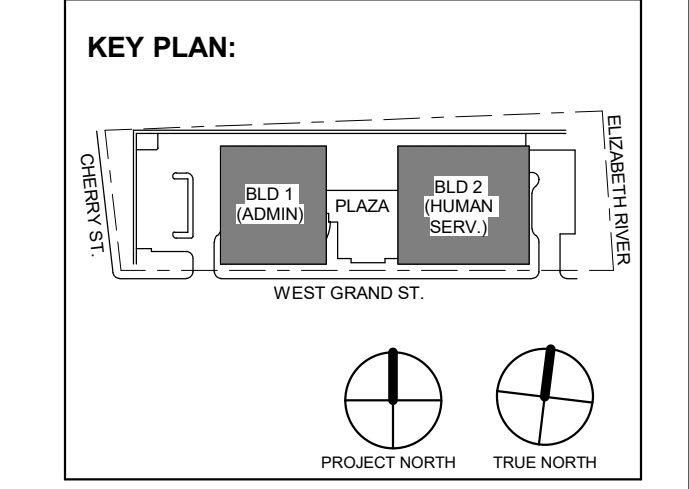
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Parsippany, NJ 07054
862.207.5500 www.h2m.com

NJ Landscape Architecture Certificate No.: 21MH0010330
NJ Engineering Certificate of Authorization No.: 24GA28019100



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

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM
PROJECT No: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



VRF SYSTEM - HEAT PUMP SCHEDULE

Table with columns: UNIT, MFR, MODEL, STYLE, SERVING, SUPPLY AIRFLOW CFM (HW/L), OUTSIDE AIRFLOW CFM, EXTERNAL STATIC PRESSURE (IN W.C.), TOTAL COOLING CAP (MBH), SENSIBLE COOLING CAP (MBH), TOTAL HEATING CAP (MBH), ELECTRICAL (VPH/Hz, MCA, MOC), WEIGHT (LBS), UNIT, MODEL, REFR CHARGE, RATED COOLING CAPACITY (MBH), RATED HEATING CAPACITY (MBH), EFFICIENCY (EER, IEER, COP, COP17), ELECTRICAL (VPH/Hz, MCA, MOC), WEIGHT (LBS), NOTES. Rows include AC 1-1-1 through AC 2-3-3.

- NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH - INDOOR AND OUTDOOR UNITS
2. PROVIDE ALL INTERCONNECTING CONTROL WIRE, REFRIGERANT PIPING, AND OUTDOOR UNITS.
3. PROVIDE INDOOR UNIT WITH WALL MOUNTED TEMPERATURE CONTROLS. PROVIDE TAMPERPROOF ENCLOSURES FOR ALL THERMOSTATS LOCATED IN HIGH TRAFFIC AREAS PRONE TO DAMAGE AND TAMPERING.
4. PROVIDE LOW AMBIENT COOLING KITS.
5. PROVIDE EQUIPMENT SUPPORTS PER OUTDOOR UNIT. REFER EQUIPMENT SUPPORT DETAIL.
6. ALL DUCTED UNITS SHALL BE PROVIDED WITH MERV 8 FILTERS W/ REPLACEMENT FILTERS PER UNIT. PROVIDE WASHABLE FILTERS FOR WALL MOUNT TYPE UNITS
7. PROVIDE DRAIN PAN LEVEL SENSORS IN EVAPORATOR DRAIN PANS. INSTALL STAINLESS STEEL SECONDARY DRAIN PAN WITH FLOAT SWITCH UNDER ALL DUCTED UNITS, AND ANY UNITS POSITIONED OVER ELECTRICAL EQUIPMENT. FLOAT SWITCH TO SHUT DOWN UNIT AND ALARM BMS UPON WATER DETECTION.
8. PROVIDE FACTORY MOUNTED BACNET CONTROLLERS PER UNIT. ALL UNITS SHALL BE TIED INTO THE BUILDING MANAGEMENT SYSTEM.
9. REFRIGERANT CHARGE SHALL BE BASED ON DAikin SELECTION SOFTWARE. PROVIDE TOTAL REFRIGERANT CHARGE OF SYSTEM ON SUBMITTAL.
10. PROVIDE BUILT IN CONDENSATE PUMP FOR ALL EVAPORATING UNITS

3 12.15.2023 Addendum No. 3
2 12.08.2023 Addendum No. 2
1 11.08.2023 For Public Bid

No. Date Description
Revisions / Issues

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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
91 & 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. 1&2 - MECHANICAL SCHEDULES (5 OF 5)

Sheet No:
M-405

BUILDING-2 VENTILATION SCHEDULE (RTU 2-1)

Table with columns: ROOM #, ROOM DESCRIPTION, FLOOR AREA (SQFT), TOTAL OCCUPANTS, PEOPLE OA RATE (CFM/PERSON), AREA OUTDOOR AIR RATE (CFM/SQFT), EZ, UNCORR. CFM, DESIGN CFM, AREA BASED EXHAUST RATE (CFM/FIXTURE), REQUIRED EXHAUST (CFM), NOTES. Rows include LOBBY, VESTIBULE, OFFICE, BREAK RM, TOILET, LOCKER, CORR, and various numbered rooms.

BUILDING-2 VENTILATION SCHEDULE (RTU 2-2)

Table with columns: ROOM #, OCCUPANCY CLASSIFICATION, FLOOR AREA (SF), NUMBER OF OCCUPANTS, OCCUPANT BASED OA RATE (CFM/OCCUPANT), AREA BASED OUTSIDE AIR RATE (CFM/SF), ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez), TOTAL UNCORRECTED OA REQUIRED (CFM), TOTAL CORRECTED OA REQUIRED (CFM), AREA BASED EXHAUST RATE (CFM/FIXTURE), REQUIRED EXHAUST (CFM), NOTES. Rows include LOBBY, TOILET, JANITORS CLOSET, CORRIDOR, OFFICE, STORAGE, and various numbered rooms.

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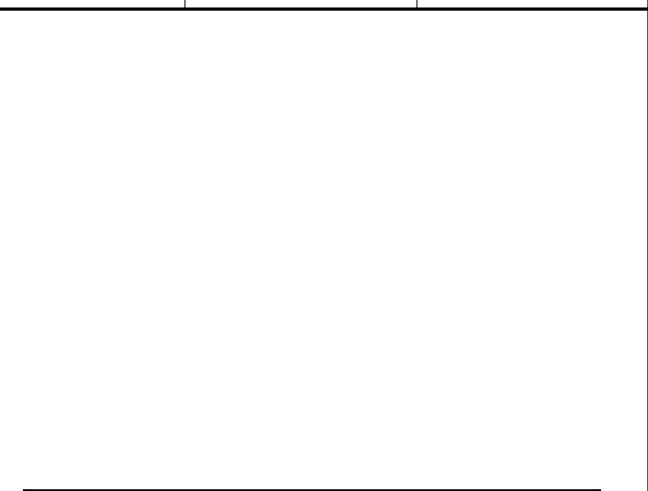


Table with columns: No., Date, Description, Revisions / Issues. Contains a single row for Addendum No. 3 dated 11/08/2023 for Public Bid.

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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/VPC Checked By: JM/SH

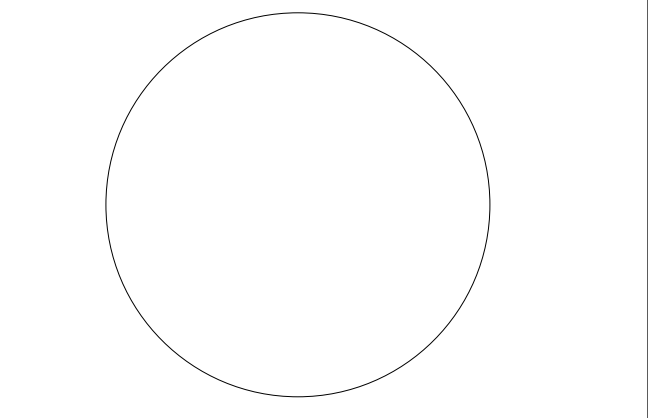
Sheet Name: BUILDING NO. 2 - MECHANICAL SCHEDULES (1 OF 4)

Sheet No: M-409

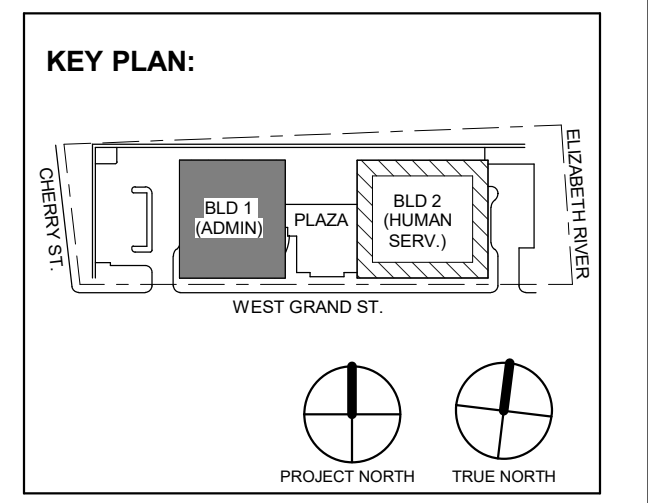
BUILDING-2 VENTILATION SCHEDULE (RTU 2-6)

ROOM #	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	NUMBER OF OCCUPANTS	OCCUPANT BASED OA RATE (CFM/OCCUPANT)	AREA BASED OUTSIDE AIR RATE (CFM/SF)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	TOTAL UNCORRECTED OA REQUIRED (CFM)	TOTAL CORRECTED OA REQUIRED (CFM)	AREA BASED EXHAUST RATE (CFM/FIXTURE)	REQUIRED EXHAUST (CFM)	NOTES
2601	LOBBY	817	0	5	0.06	0.8	49	61	-	-	-
2604	TOILET	73	-	-	-	-	0	0	50	50	-
2605	TOILET	137	-	-	-	-	0	0	50	100	-
2606	JANITORS CLOSET	37	-	-	-	-	0	0	50	50	-
2607	TOILET	138	-	-	-	-	0	0	50	100	-
2609	OFFICE	802	4	5	0.06	0.8	68	85	-	-	-
2610	STORAGE	573	-	-	-	-	69	86	-	-	-
2611	CONFERENCE	962	38	5	0.06	0.8	248	310	-	-	-
2612	OFFICE	112	1	5	0.06	0.8	12	15	-	-	-
2613	OFFICE	110	1	5	0.06	0.8	12	15	-	-	-
2614	OFFICE	114	1	5	0.06	0.8	12	15	-	-	-
2615	OFFICE	3280	23	5	0.06	0.8	312	390	-	-	-
2620	OFFICE	7076	88	5	0.06	0.8	765	956	-	-	-
2621	CONFERENCE	343	10	5	0.06	0.8	71	88	-	-	-
2622	OFFICE	125	1	5	0.06	0.8	13	16	-	-	-
2623	BREAK ROOM	83	1	5	0.06	0.8	10	12	-	-	-
2624	OFFICE	110	1	5	0.06	0.8	12	15	-	-	-
2625	STORAGE	454	0	0	0.12	0.8	54	68	-	-	-
2626	OFFICE	145	1	5	0.06	0.8	14	17	-	-	-
2627	OFFICE	108	1	5	0.06	0.8	12	15	-	-	-
2628	OFFICE	127	1	5	0.06	0.8	13	16	-	-	-
2629	CONFERENCE	350	10	5	0.06	0.8	71	89	-	-	-
2629	OFFICE	167	1	5	0.06	0.8	15	19	-	-	-
2630	OFFICE	2242	9	5	0.06	0.8	180	224	-	-	-
2631	OFFICE	88	1	5	0.06	0.8	10	13	-	-	-
2632	BREAK ROOM	90	1	5	0.06	0.8	10	13	-	-	-

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 NJ Engineering Certificate of Authorization No.: 24GA26019100



JOHN CHRIS MORRIS III, P.E.
 NJ PROFESSIONAL ENGINEER (No. 14388888)
 I HEREBY CERTIFY THAT THE DESIGN AND CONSTRUCTION OF THIS PROJECT HAS BEEN REVIEWED BY ME AND I AM AWARE OF THE DESIGN AND CONSTRUCTION OF THIS PROJECT.
 DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JCM
 PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



3	12.15.2023	Addendum No. 3
	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: JMSH

Sheet Name:
BUILDING NO. 2 - MECHANICAL SCHEDULES (4 OF 4)

Sheet No:

M-412

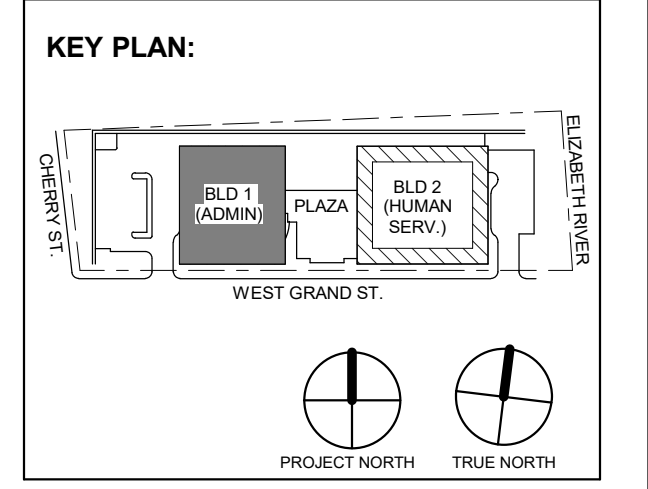


Table with 3 columns: No., Date, Description. Row 1: 3, 12/15/2023, Addendum No. 3. Row 2: 11/08/2023, For Public Bid.



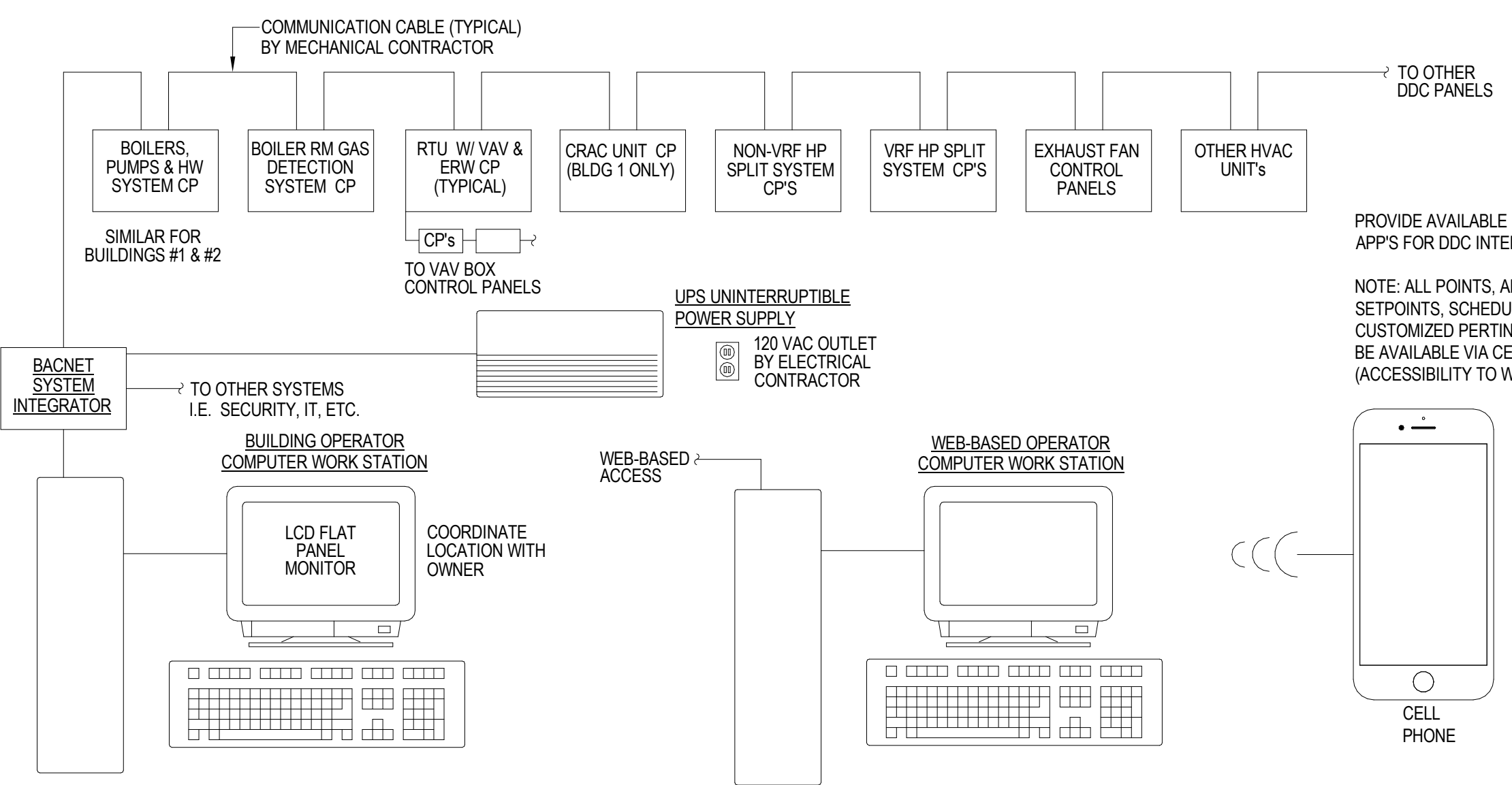
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Client: UNION COUNTY IMPROVEMENT AUTHORITY

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

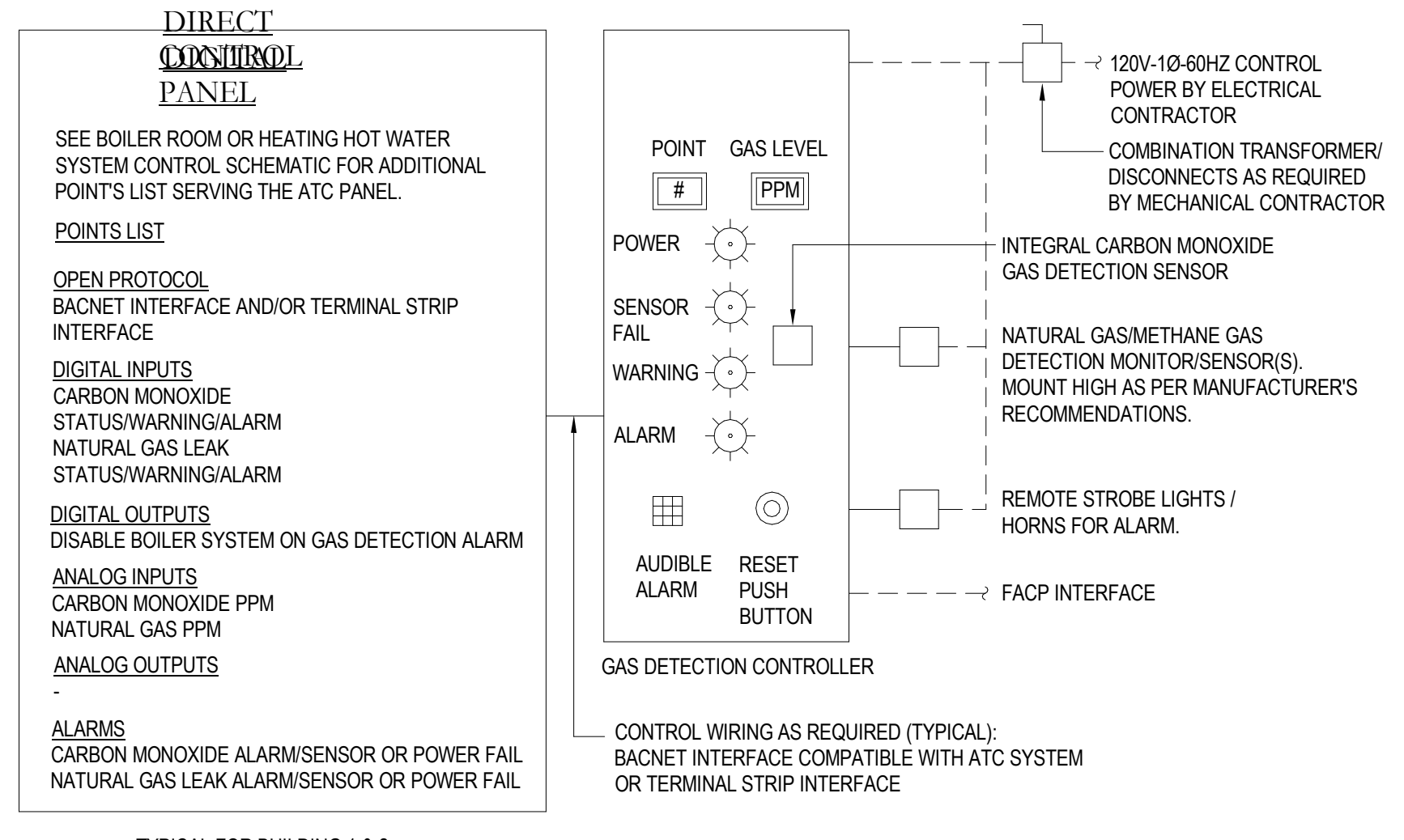
Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1&2 - MECHANICAL CONTROLS DIAGRAMS (1 OF 4)

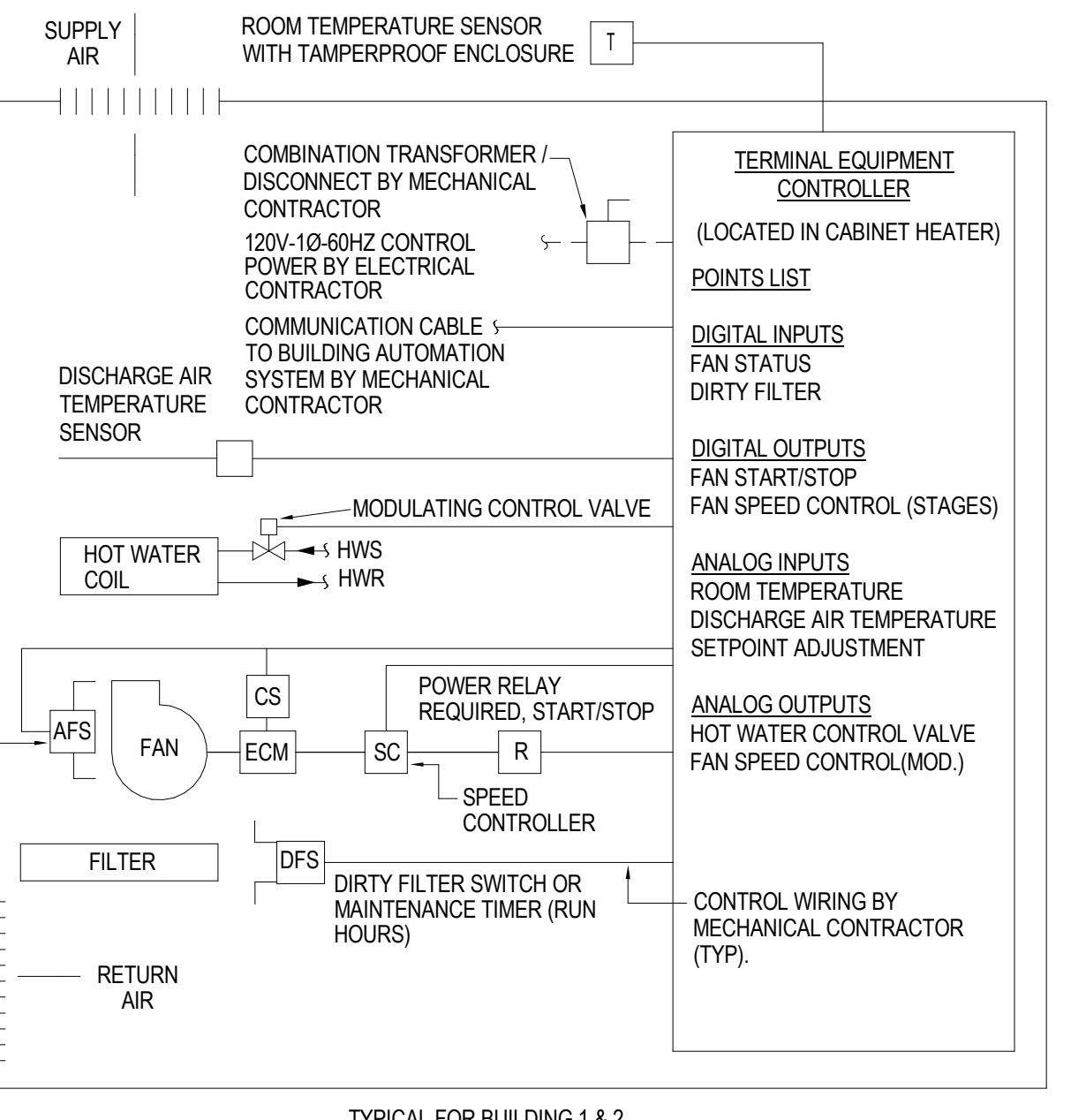


1 Direct Digital Control (DDC) Architecture SCALE: NTS

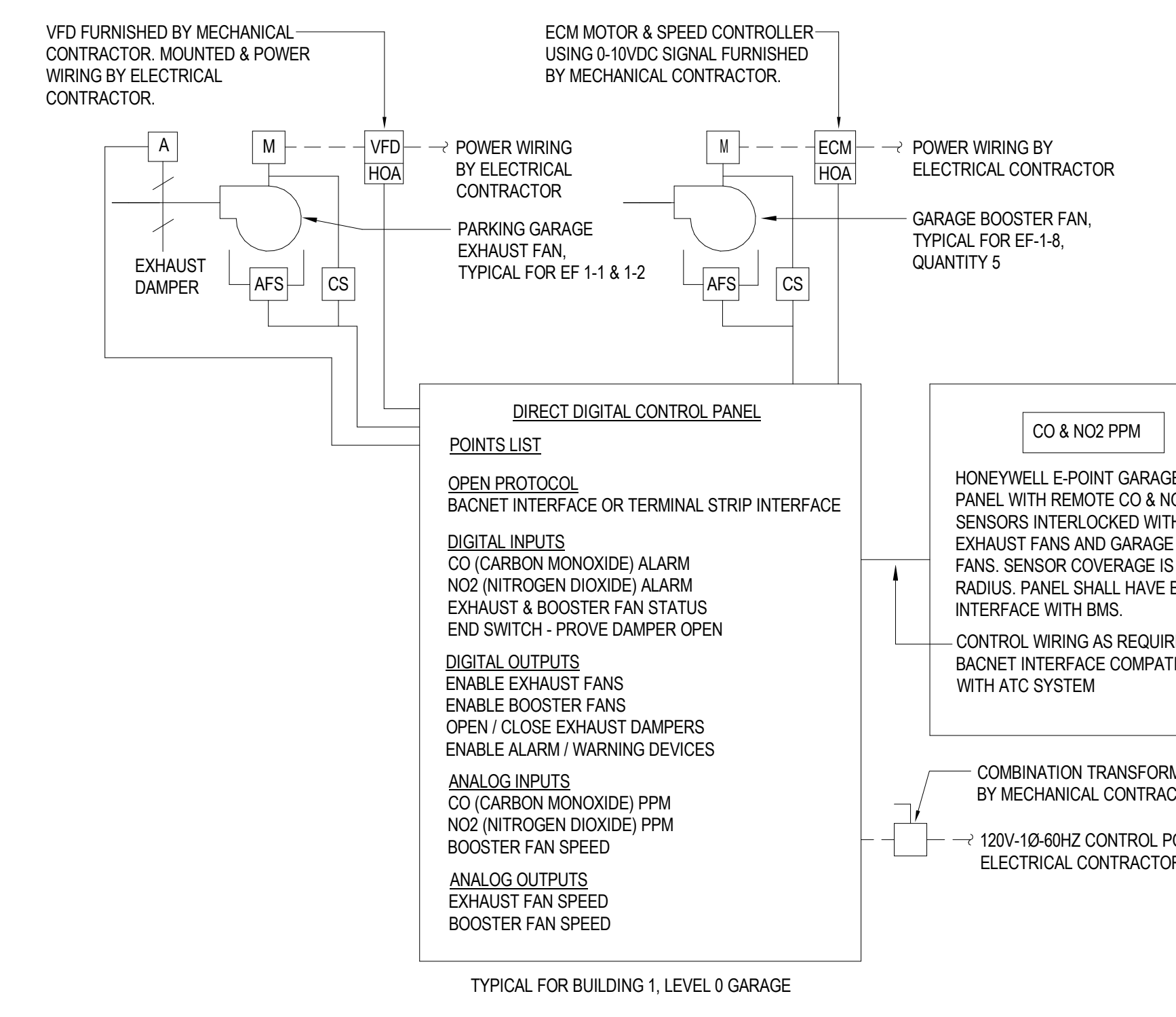
- 1. THE BAS CONTRACTOR SHALL FURNISH LICENSES FOR AUTHORIZED USERS FOR WEB CONNECTION TO THE BAS SYSTEM. 2. WEB-BASED USERS SHALL HAVE PRE-DEFINED LEVELS OF ACCESS (DEPENDENT ON PASSWORD LEVEL) TO ALL SYSTEM POINTS AND GRAPHICS. 3. THEY SHALL ALSO BE ABLE TO RECEIVE AND ACKNOWLEDGE ALARMS. 4. THEY SHALL BE ABLE TO CONTROL SETPOINTS AND OTHER PARAMETERS. 5. ALL ENGINEERING WORK (SUCH AS TRENDS, REPORTS, GRAPHICS, ETC.) THAT ARE ACCOMPLISHED FROM THE WORKSTATION SHALL BE AVAILABLE FOR VIEWING THROUGH THE WEB BROWSER INTERFACE WITHOUT ADDITIONAL CHANGES.



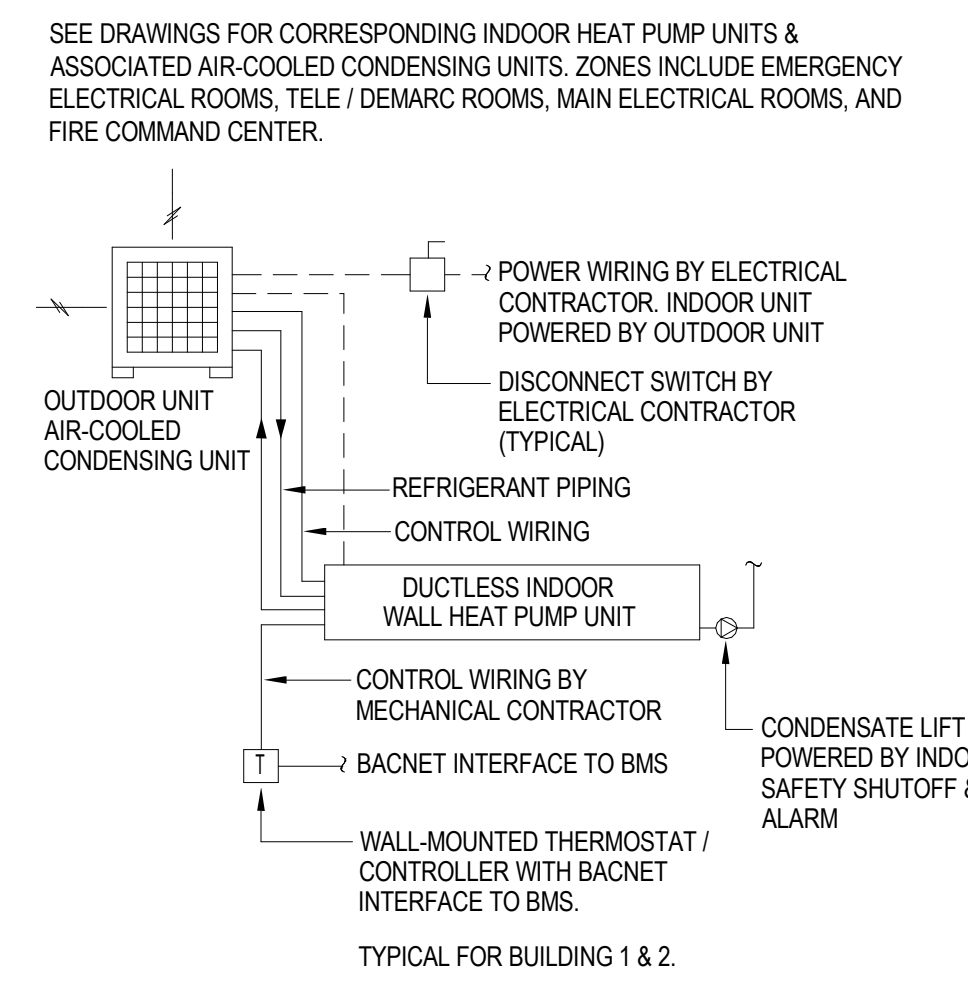
2 Boiler Room Gas Detection Control Schematic SCALE: NTS



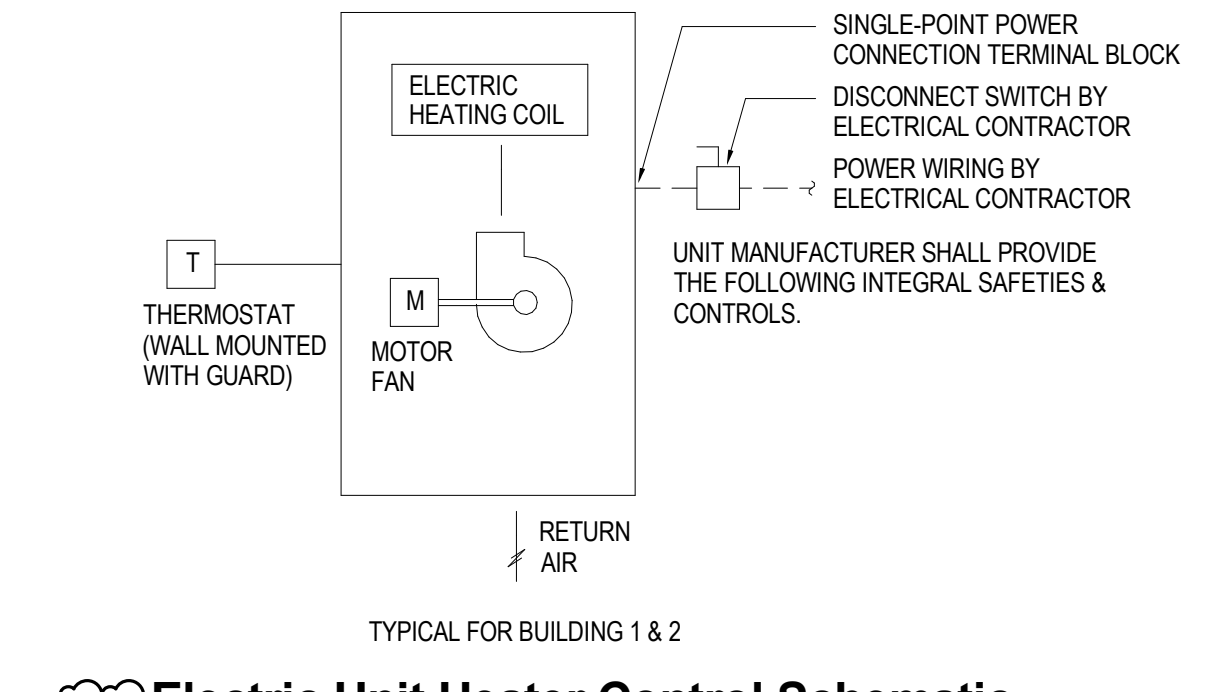
3 Hot Water Cabinet Unit Heater Control Schematic SCALE: NTS



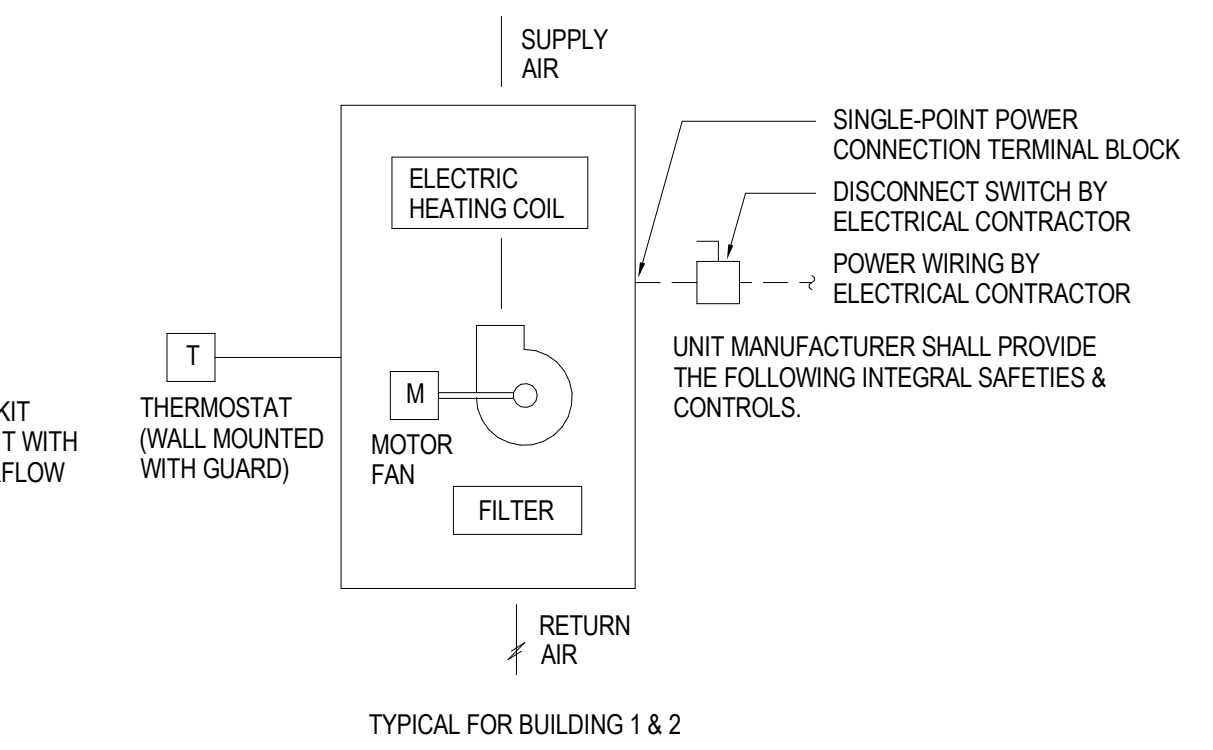
5 Garage Ventilation & Gas Detection Control Schematic SCALE: NTS



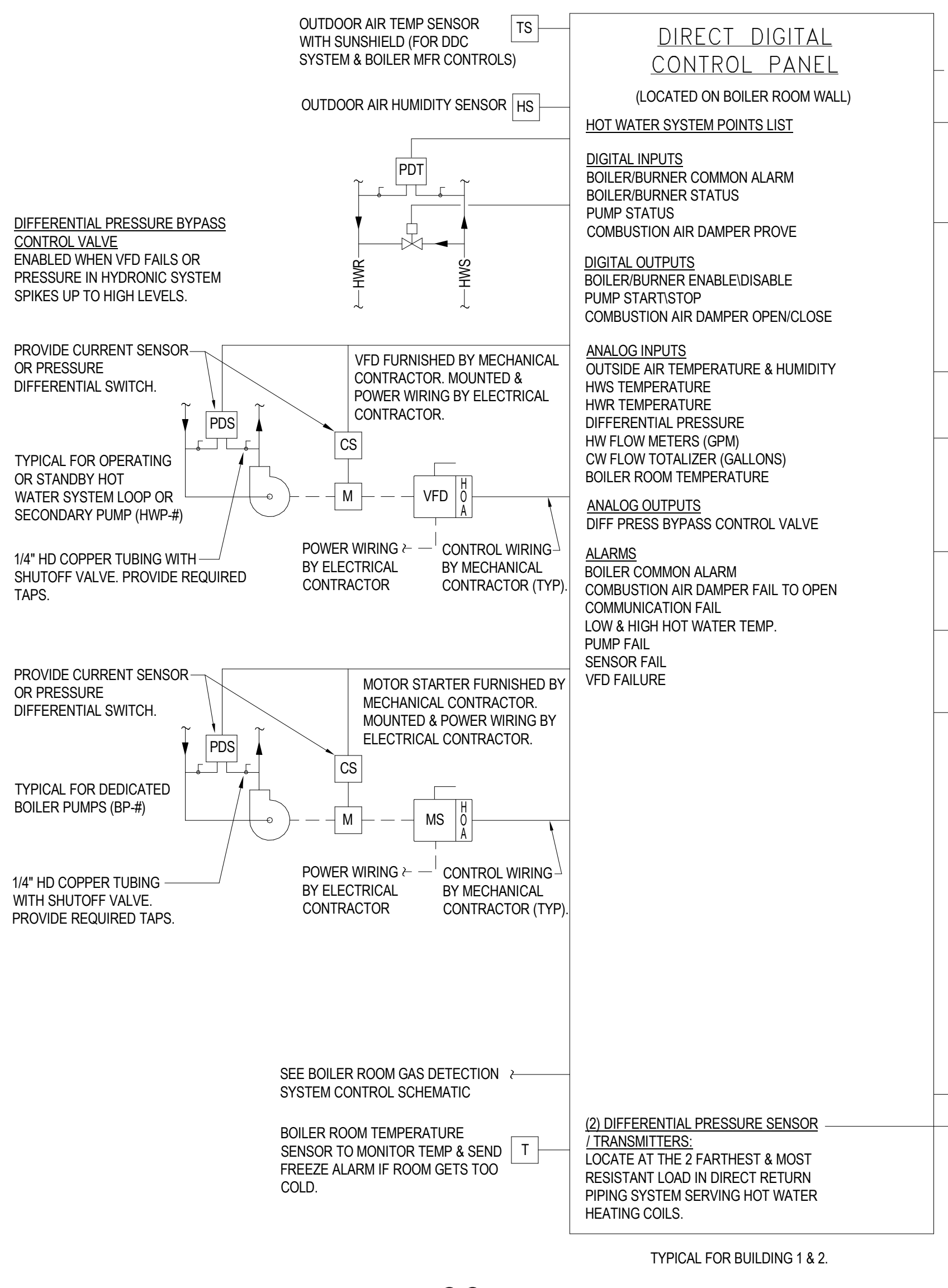
6 Non-VRF Split System Heat Pump Control Schematic SCALE: NTS



7 Electric Unit Heater Control Schematic SCALE: NTS

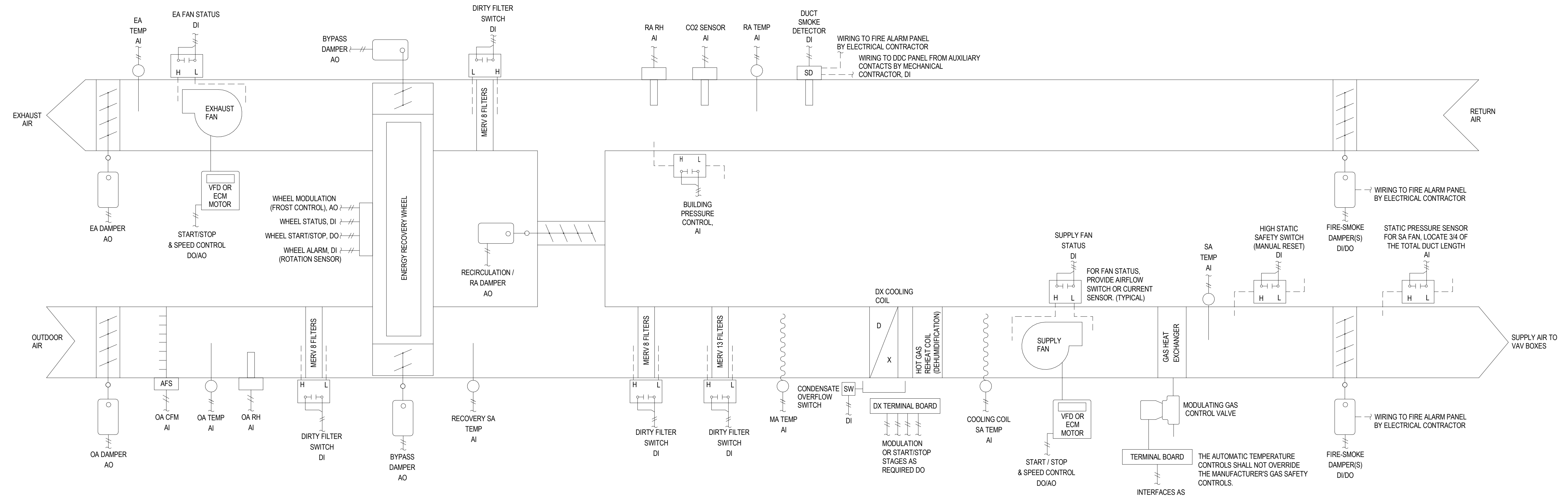


8 Electric Cabinet Unit Heater Control Schematic SCALE: NTS



4 Hot Water Heating System Control Schematic SCALE: NTS

ABBREVIATIONS table listing symbols for components like ACTUATOR, AIRFLOW SWITCH, ANALOG INPUT, etc.



LEGEND

CONTROL POINT TYPE

- AI, ANALOG INPUT
- AO, ANALOG OUTPUT
- DI, DIGITAL INPUT
- DO, DIGITAL OUTPUT

CONTROL POINT DESCRIPTION

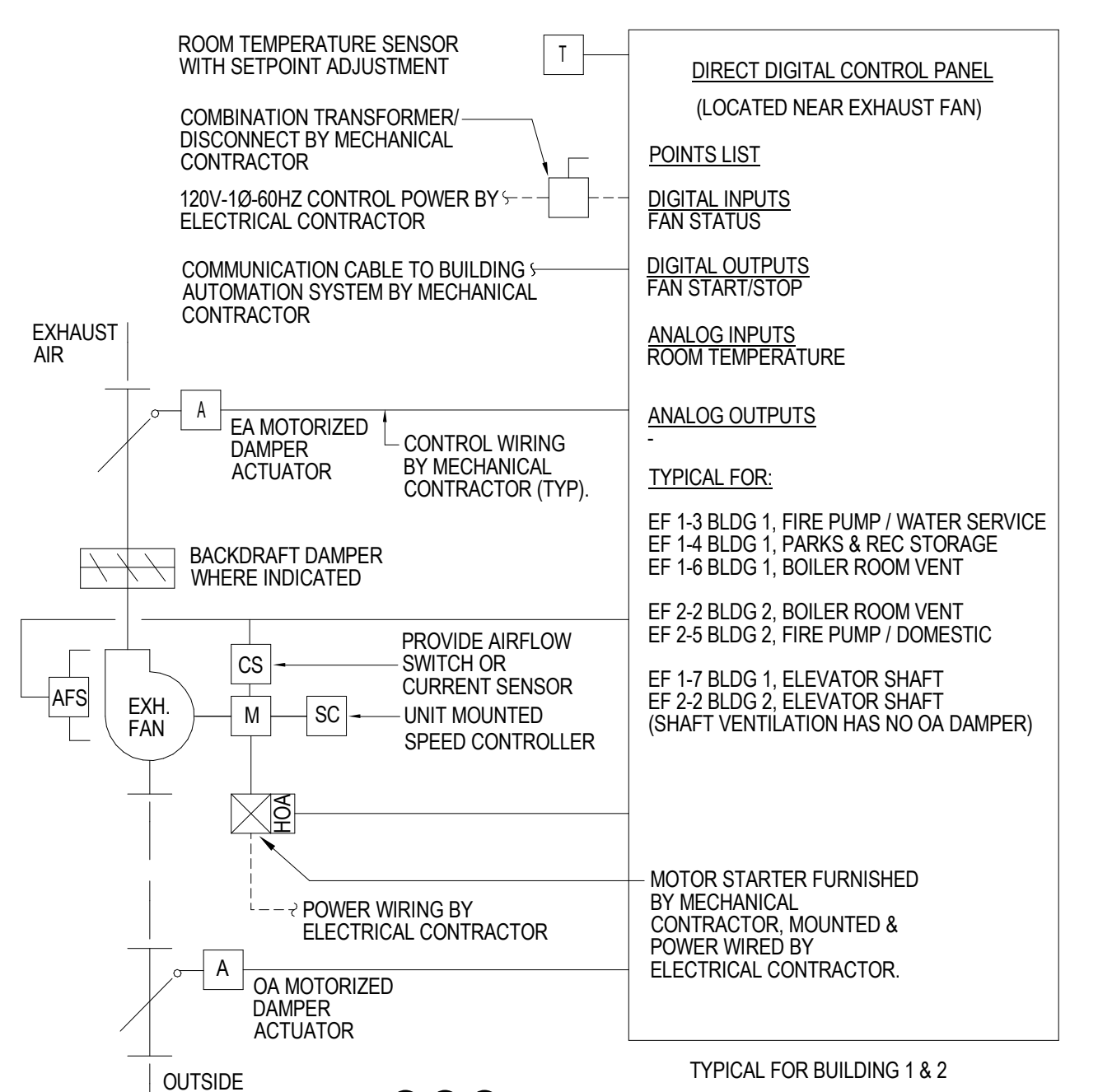
- EA, EXHAUST AIR
- OA, OUTSIDE AIR
- RA, RETURN AIR
- RH, RELATIVE HUMIDITY
- SA, SUPPLY AIR
- TEMP, TEMPERATURE

CONTROL PANEL
(LOCATED INSIDE UNIT OR IN NEAREST STORAGE OR MECHANICAL ROOM NEAR UNIT)

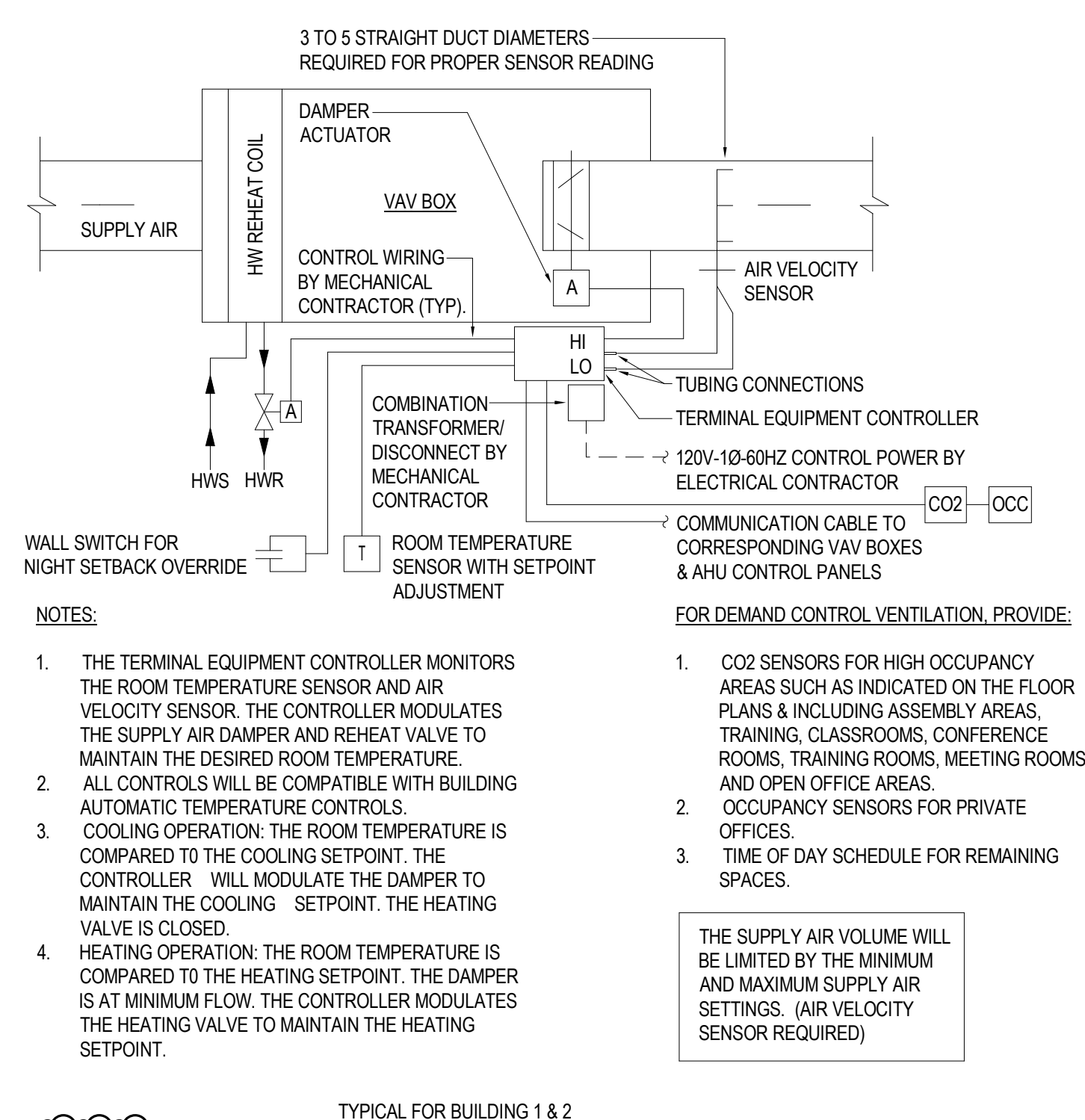
- MECHANICAL CONTRACTOR SHALL COORDINATE THE UNIT MANUFACTURER'S CONTROLS WITH THE BUILDING AUTOMATIC TEMPERATURE CONTROL SYSTEM. VERIFY INTERFACE AS OPEN PROTOCOL, NATIVE BACNET, AND/OR TERMINAL STRIPS.
- COMBINATION TRANSFORMER / DISCONNECT BY MECHANICAL CONTRACTOR
- 120V-10-60HZ CONTROL POWER BY ELECTRICAL CONTRACTOR
- FIRE ALARM CONDITION INPUT BY ELECTRICAL CONTRACTOR
- COMMUNICATION CABLE TO BUILDING AUTOMATION SYSTEM BY MECHANICAL CONTRACTOR
- SEE SCHEMATIC DIAGRAM ABOVE FOR CONTROL POINTS.
- EMERGENCY POWER MODE. LOCK OUT DX COOLING.

TYPICAL FOR BUILDING 1 & 2

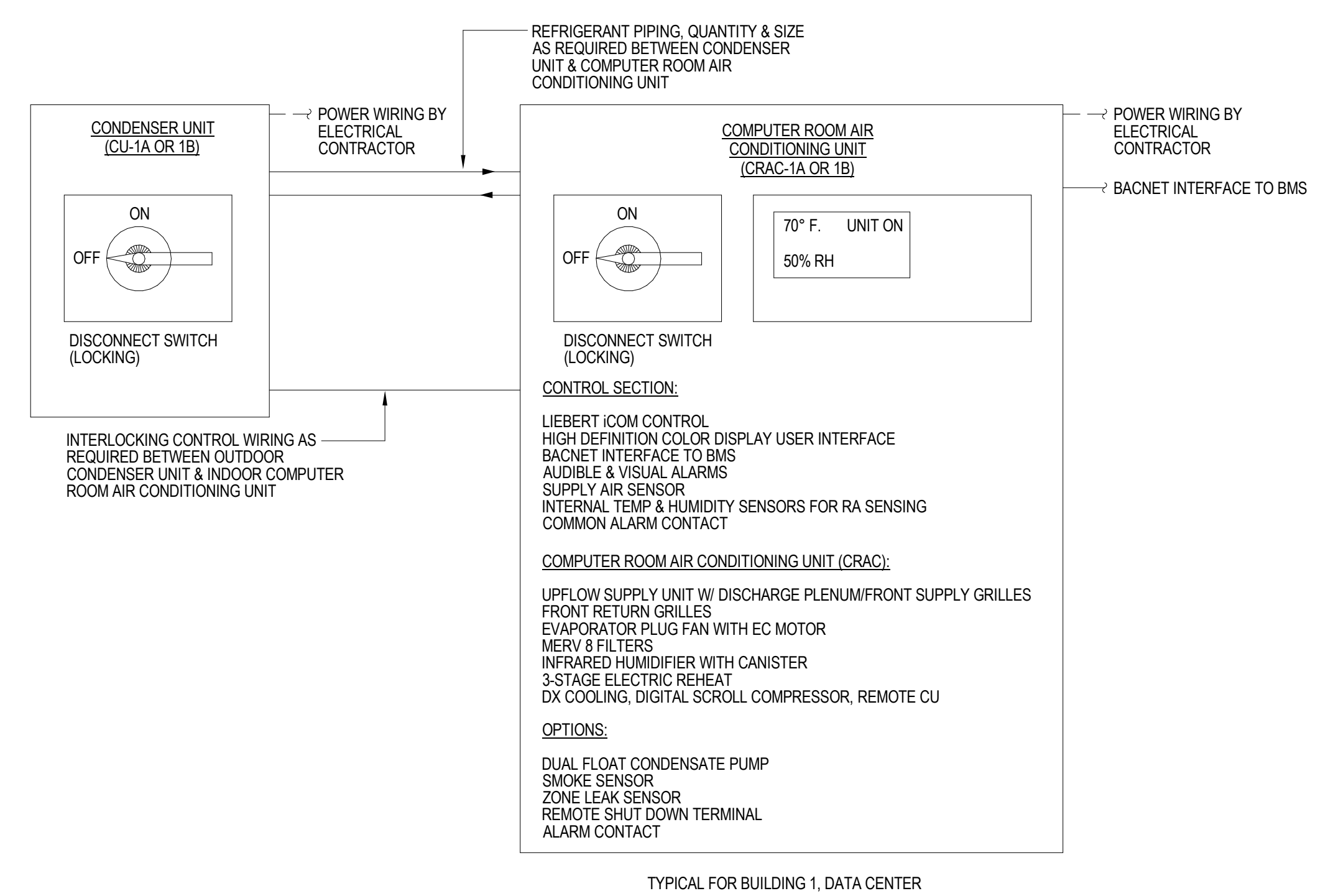
1 VAV Rooftop Unit with Energy Recovery Wheel Control Schematic
SCALE: NTS



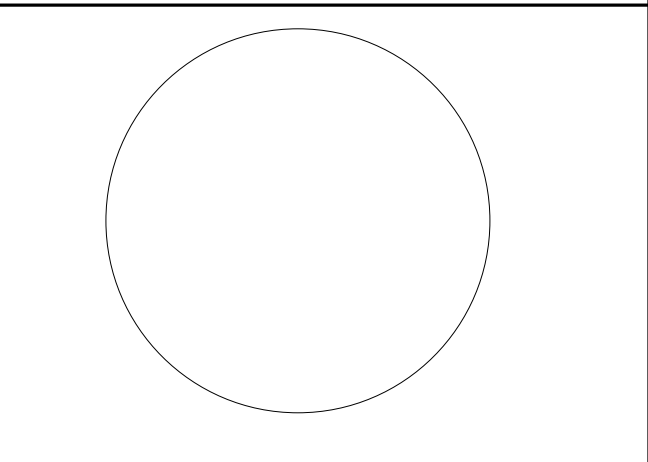
2 Exhaust Fan Control Schematic (T-Stat)
SCALE: NTS



3 VAV Box with Reheat Coil Control Schematic
SCALE: NTS

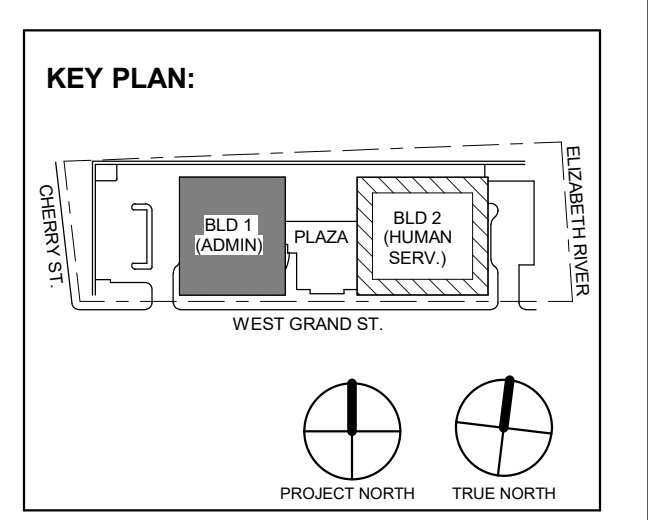


4 Computer Room Air Conditioning Unit Control Schematic
SCALE: NTS



DESIGNED BY: JSK/DKR
DRAWN BY: JSK
CHECKED BY: JCM
REVIEWED BY: JCM

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



3 12 15 2023 Addendum No. 3
11 08 2023 For Public Bid

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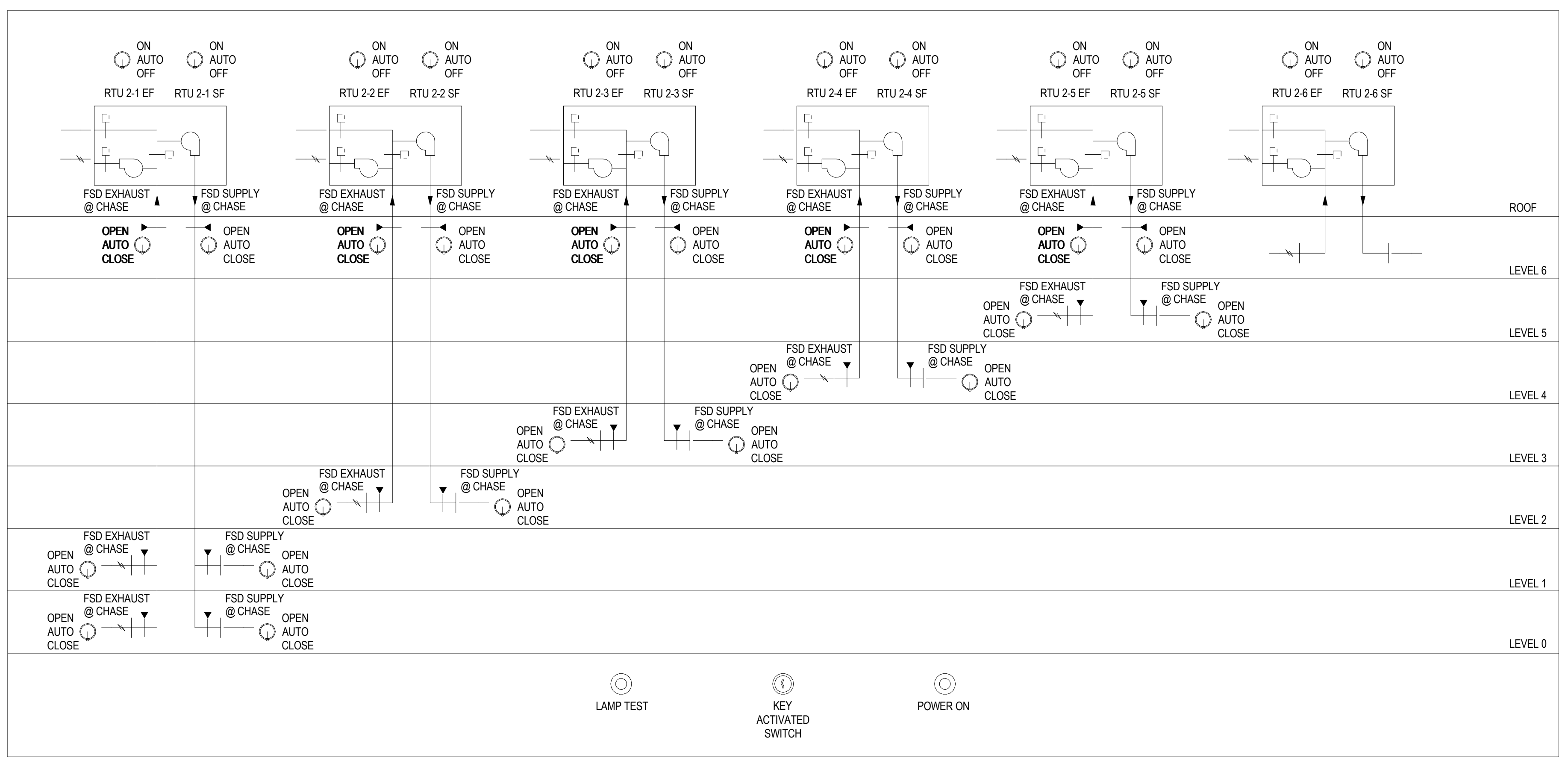
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

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/VPC
Checked By: JM/SH

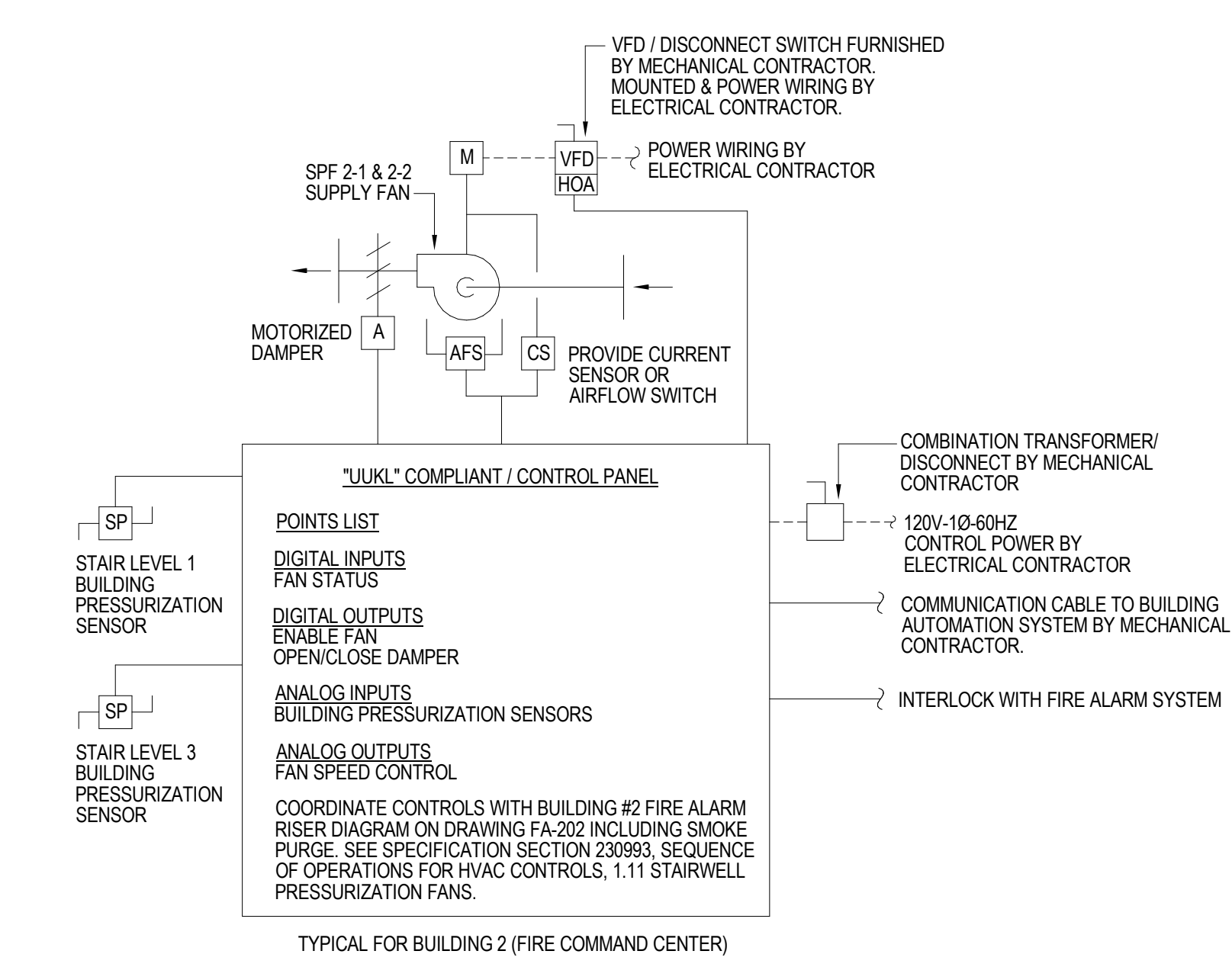
Sheet Name:
BUILDING NO. 1&2 - MECHANICAL CONTROLS DIAGRAMS (2 OF 4)

Sheet No:
M-502

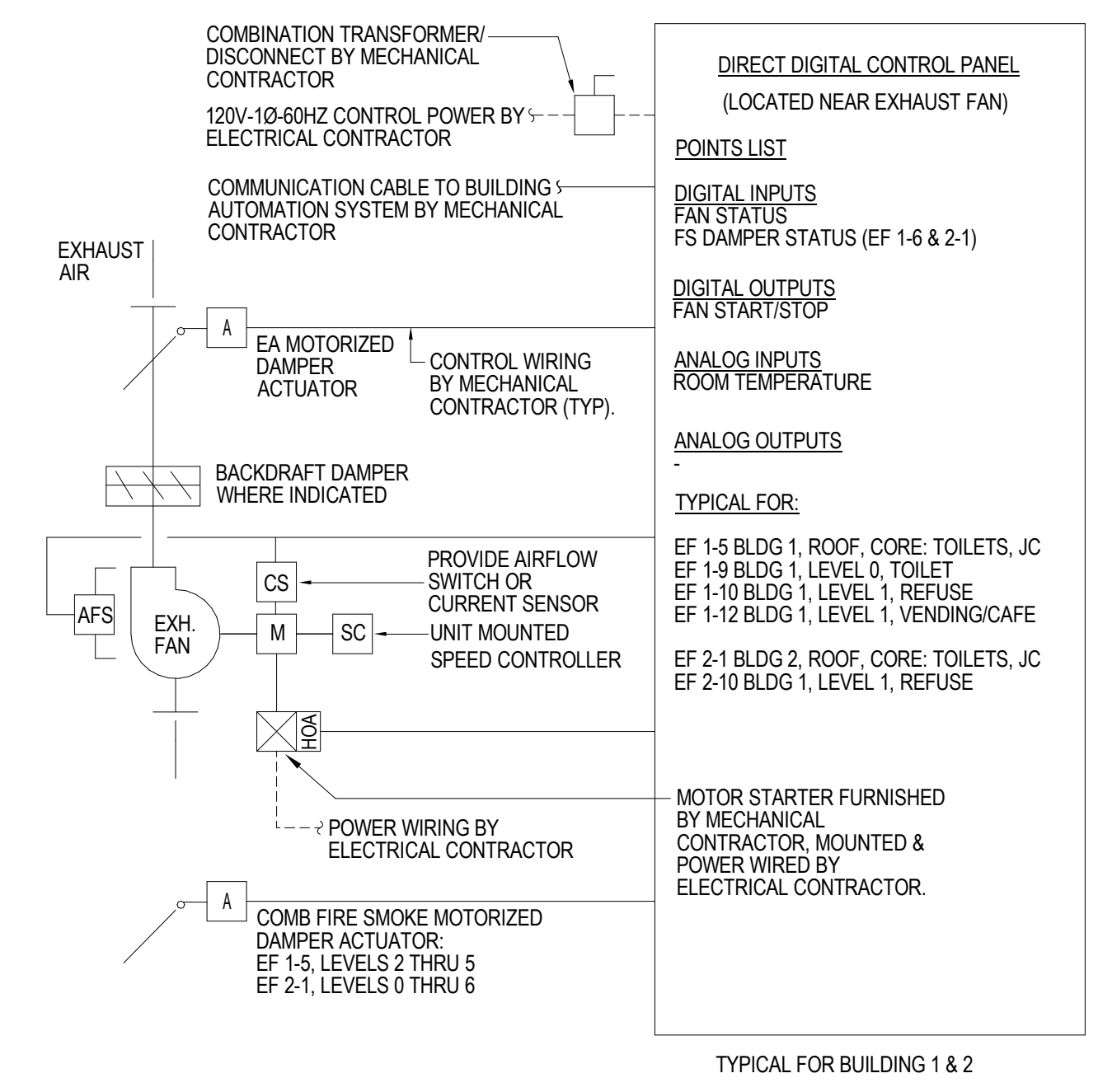


1 Post-Fire Smoke Purge / Fire Fighter's Control Panel Control Schematic
SCALE: NTS

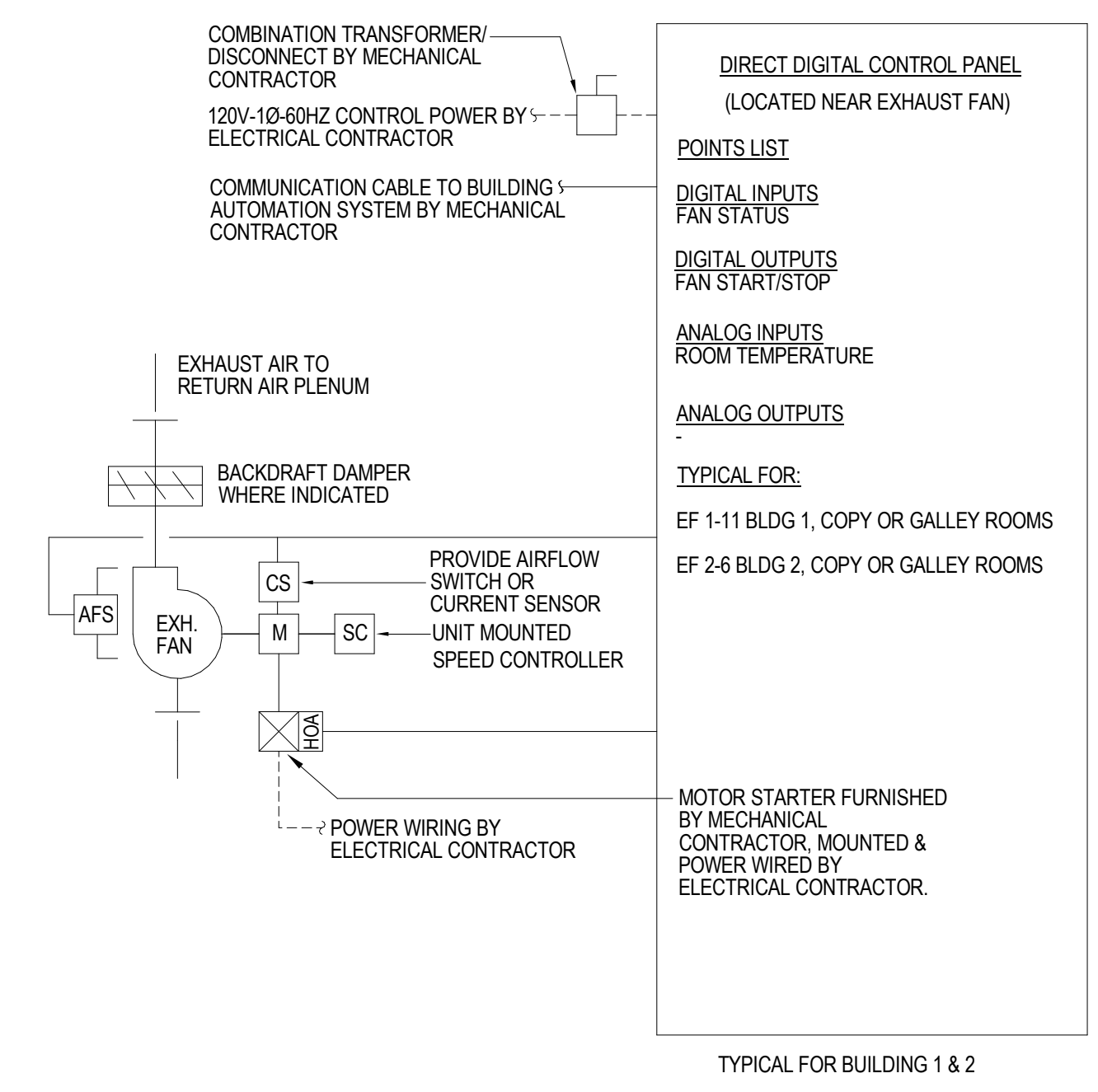
- POST-FIRE SMOKE PURGE NOTES:**
1. THE BMS CONTRACTOR AND FIRE ALARM CONTRACTOR SHALL COORDINATE THE POST-FIRE SMOKE PURGE OR FIRE FIGHTER'S CONTROL PANEL.
 2. THE PANEL SHALL VIA THE BMS OWNER USER INTERFACE AND VIA THE FIRE FIGHTER'S CONTROL PANEL IN THE FIRE COMMAND CENTER OF BUILDING 2.
 3. SEE SPECIFICATION SECTION 230993, SEQUENCE OF OPERATIONS, 1.6 VARIABLE AIR VOLUME ROOFTOP UNITS WITH ENERGY RECOVERY, V. POST-FIRE SMOKE PURGE (IBC 403.7) FOR ADDITIONAL INFORMATION.
 4. THE SEQUENCE SHALL BE ACTIVATED FOR "POST-FIRE SMOKE PURGE" BY MANUALLY ENABLING THE RTUS VIA A KEY-OPERATED SWITCH AT THE CONTROL PANEL.
 5. THE PANEL SHALL HAVE THE ABILITY TO OPEN/CLOSE THE FIRE-SMOKE DAMPER ACTUATORS AND MONITOR THEIR POSITION BY FLOOR OR LEVEL.
 6. COORDINATE CONTROLS WITH BUILDING #2 FIRE ALARM RISER DIAGRAM ON DRAWING FA-202



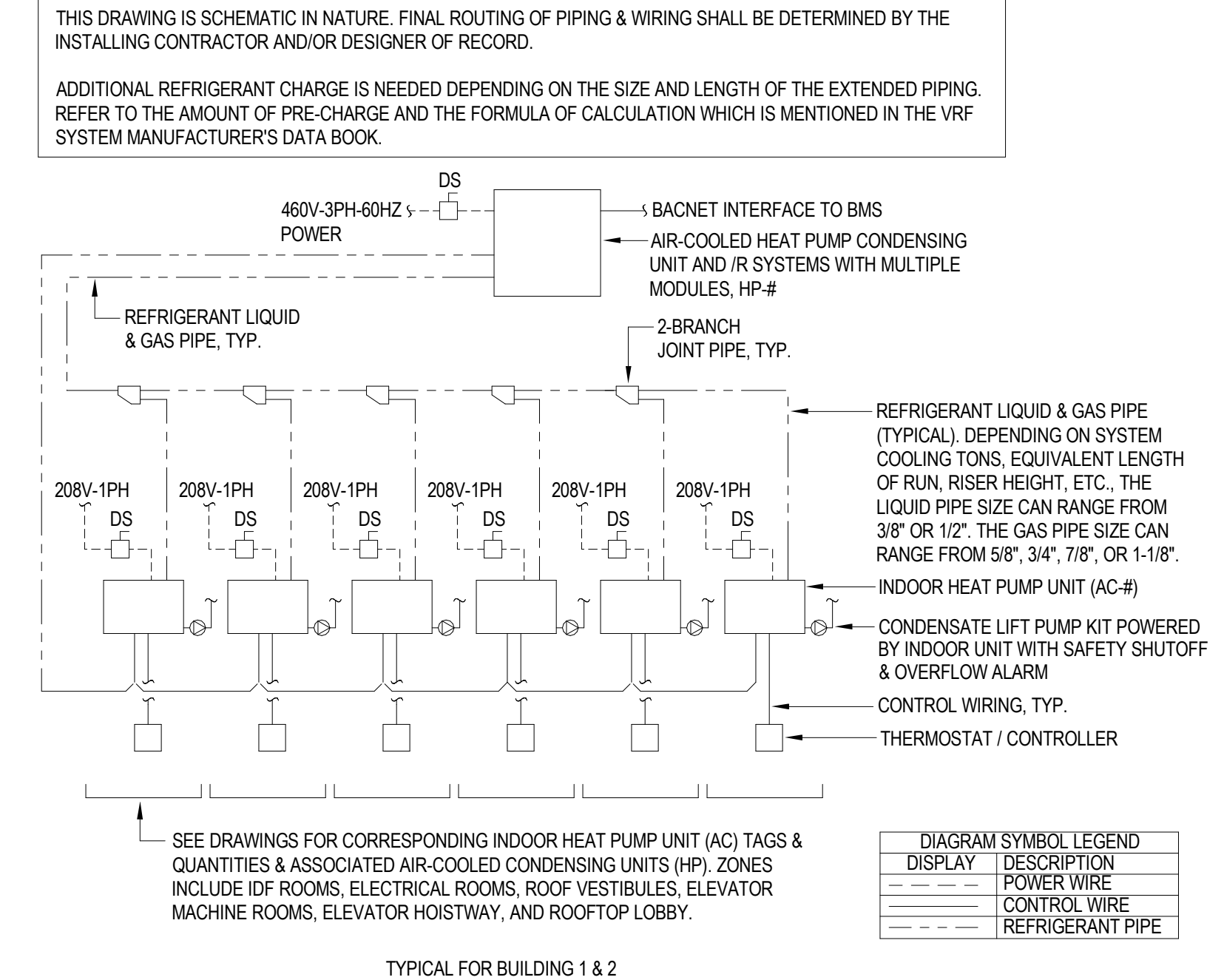
2 Stair Pressurization Fans Control Schematic
SCALE: NTS



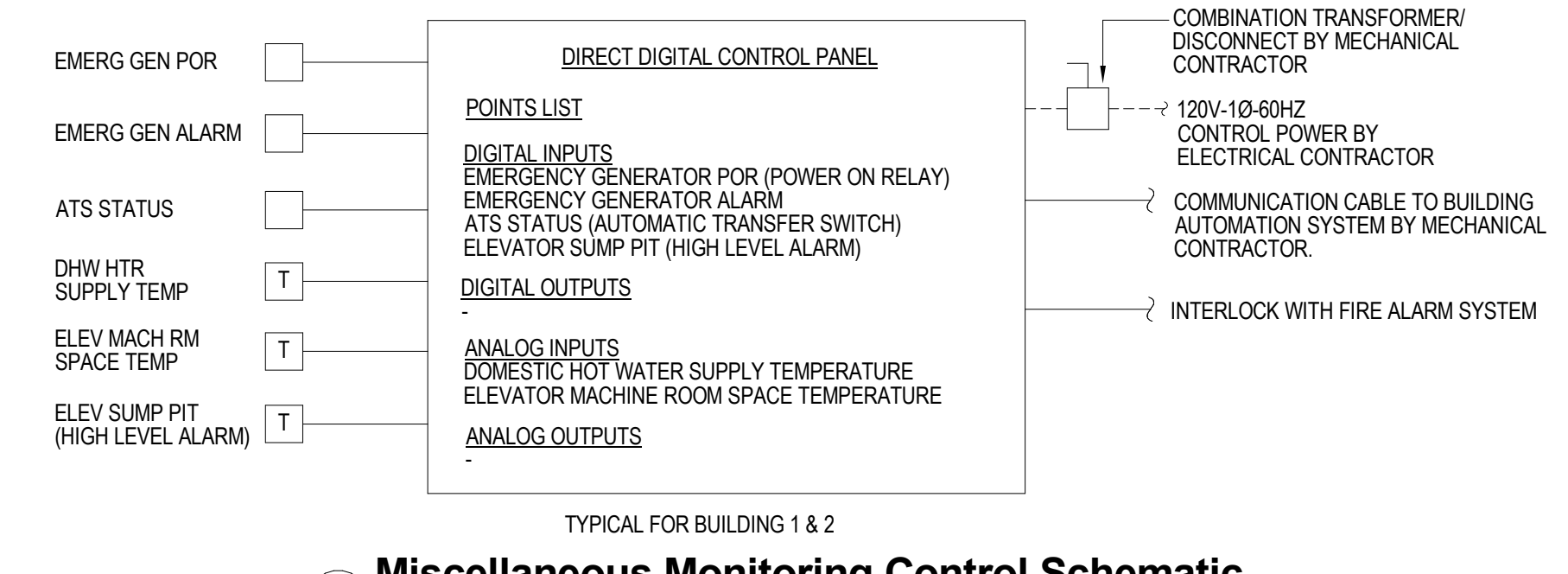
3 Exhaust Fan Control Schematic (Time of Day Schedule)
SCALE: NTS



4 Exhaust Fan Control Schematic (Copy or Galley Rooms)
SCALE: NTS

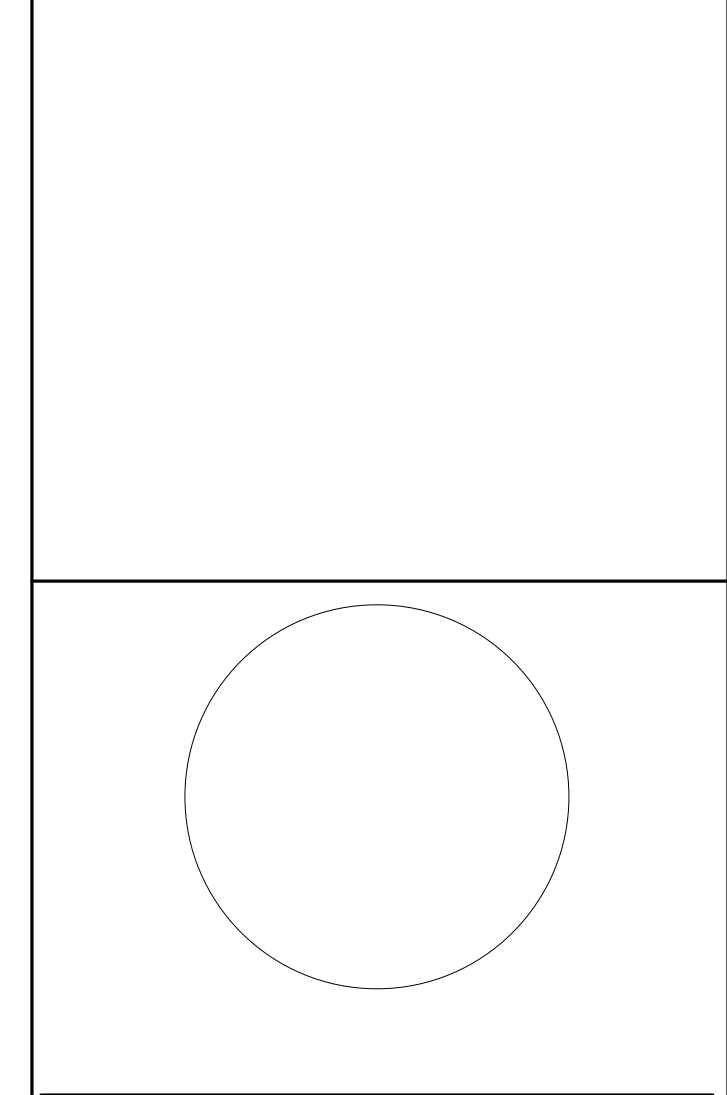


5 Typical VRF Heat Pump System Control Schematic
SCALE: NTS

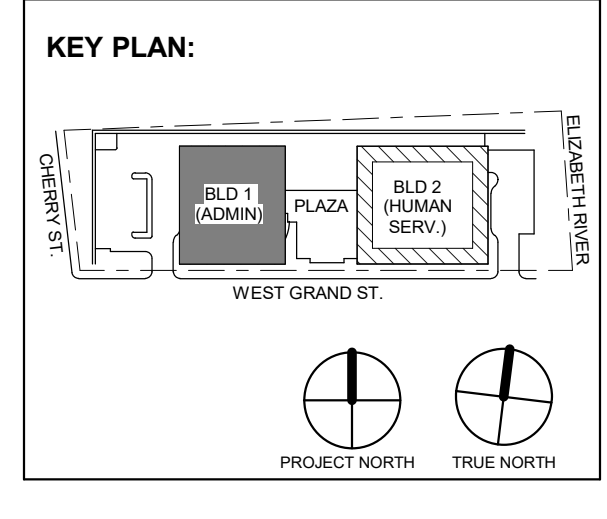


6 Miscellaneous Monitoring Control Schematic
SCALE: NTS

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



No.	Date	Description
3	12/15/2023	Addendum No. 3
	11/08/2023	For Public Bid

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NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11/08/2023
Drawn By: JBA/VPC
Checked By: JMSH

Sheet Name:
BUILDING NO. 1&2 - MECHANICAL CONTROL DIAGRAMS (3 OF 4)

Sheet No:
M-503

SEQUENCE OF OPERATION

WHENEVER PRODUCTS OF COMBUSTION ARE SENSED, THE FIRE ALARM SYSTEM, THE SMOKE DETECTOR(S), OR SMOKE DUCT DETECTOR(S) SHALL SHUT DOWN THE ASSOCIATED AIR HANDLING UNIT'S FANS AND CLOSE ALL THE CORRESPONDING SMOKE DAMPERS OR CORRESPONDING COMBINATION FIRE SMOKE DAMPERS.

AN ADDITIONAL SETS OF CONTACTS FROM THE SMOKE DUCT DETECTOR(S), SMOKE OR COMBINATION FIRE SMOKE DAMPER(S), AND FIRE ALARM PANEL SHALL INDICATE A FIRE ALARM CONDITION TO THE ATC SYSTEM FOR SECONDARY SHUTDOWN.

HIGHLIGHTS OF THE INTERNATIONAL MECHANICAL CODE 2021 - KEY NOTES

607.2 INSTALLATION. FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS LOCATED WITHIN AIR DISTRIBUTION AND SMOKE CONTROL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE DAMPERS LISTING, AND THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE 2021, SECTIONS 607.2.1 THROUGH 607.2.3.

607.3 DAMPER TESTING, RATINGS, AND ACTUATION. DAMPERS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH THE STANDARDS OF THIS SECTION. FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL555. SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL555. COMBINATION FIRE/SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF BOTH UL555 AND UL555S.

607.3.2.1 FIRE DAMPER RATINGS. FIRE DAMPERS SHALL HAVE THE MINIMUM RATING SPECIFIED IN TABLE 607.3.2.1.

TABLE 607.3.2.1 FIRE DAMPER RATING. Table with 2 columns: TYPE OF PENETRATION, MINIMUM DAMPER RATING (HOUR). Rows include: LESS THAN 3-HOUR FIRE-RESISTANCE-RATED ASSEMBLIES (1-1/2), 3-HOUR OR GREATER FIRE-RESISTANCE-RATED ASSEMBLIES (3).

607.3.2.2 SMOKE DAMPER RATINGS. SMOKE DAMPER LEAKAGE RATINGS SHALL BE CLASS I OR CLASS II. ELEVATED TEMPERATURE RATINGS SHALL NOT BE LESS THAN 250°F.

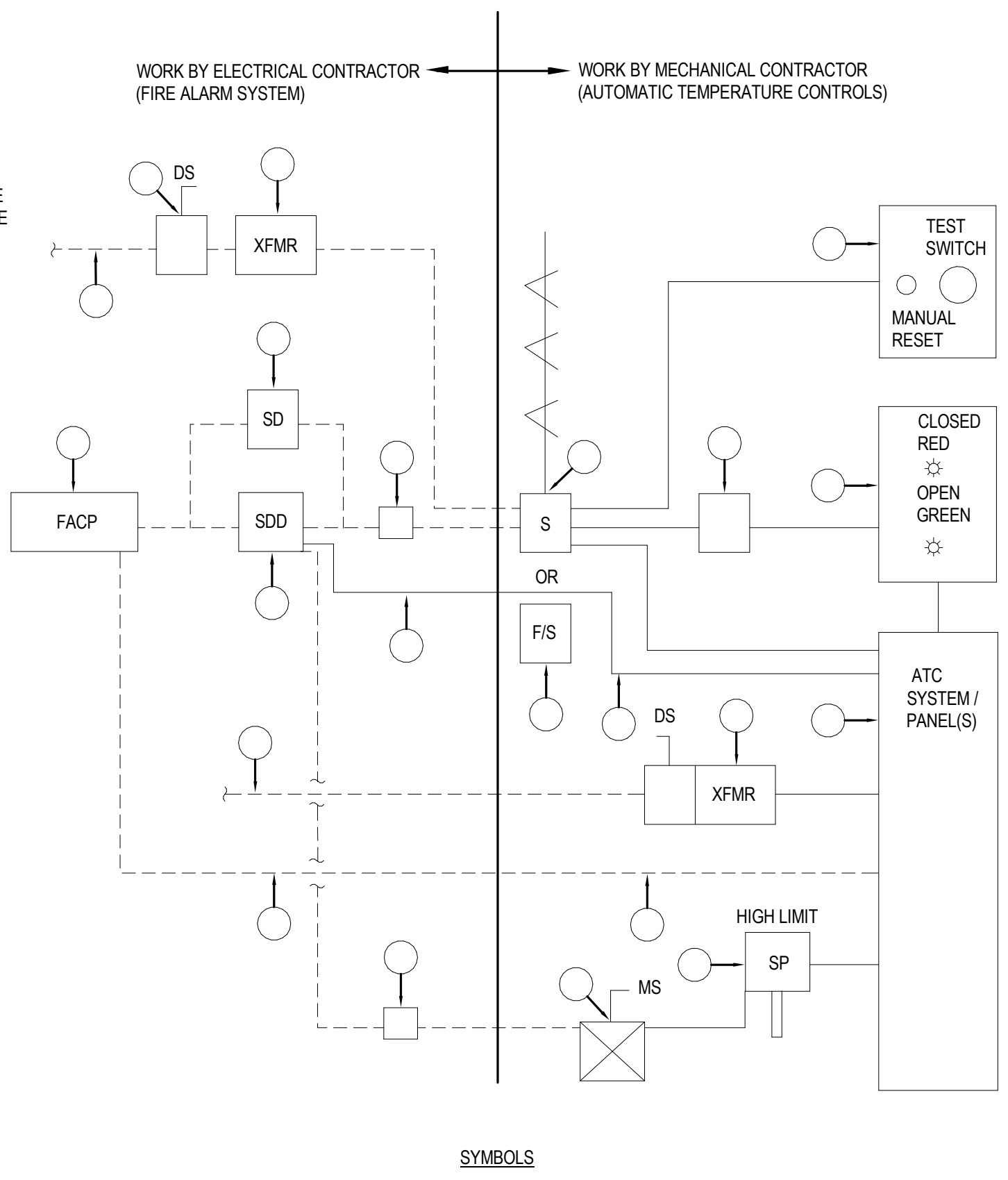
607.3.2.3 COMBINATION FIRE/SMOKE DAMPER RATINGS. COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE MINIMUM FIRE PROTECTION RATING SPECIFIED FOR FIRE DAMPERS IN TABLE 607.3.2.1 AND SHALL HAVE THE MINIMUM RATING SPECIFIED FOR SMOKE DAMPERS IN SECTION 607.3.2.2.

607.3.3.3 COMBINATION FIRE/SMOKE DAMPER ACTUATION. COMBINATION FIRE/SMOKE DAMPER ACTUATION SHALL BE IN ACCORDANCE WITH SECTIONS 607.3.3.1 (FIRE DAMPER ACTUATION) AND 607.3.3.2 (SMOKE DAMPER ACTUATION). COMBINATION FIRE/SMOKE DAMPERS INSTALLED IN SMOKE CONTROL SYSTEM SHAFT PENETRATIONS SHALL NOT BE ACTIVATED BY LOCAL AREA SMOKE DETECTION UNLESS IT IS SECONDARY TO THE SMOKE MANAGEMENT SYSTEM CONTROLS.

607.4.1 ACCESS. FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS.

607.4.1.1 FIRE-RESISTANCE RATING. THE ACCESS SHALL NOT AFFECT THE INTEGRITY OF THE FIRE-RESISTANCE-RATED ASSEMBLIES. THE ACCESS OPENINGS SHALL NOT REDUCE THE FIRE-RESISTANCE RATING OF THE ASSEMBLY. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.

607.4.2 IDENTIFICATION. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH IN HEIGHT READING: "SMOKE DAMPER OR FIRE DAMPER OR FIRE SMOKE DAMPER."



SYMBOLS: - - - - - WIRING BY ELECTRICAL CONTRACTOR; - - - - - WIRING BY MECHANICAL CONTRACTOR

1 Smoke or Combination Fire Smoke Damper Control Schematic

KEY NOTES

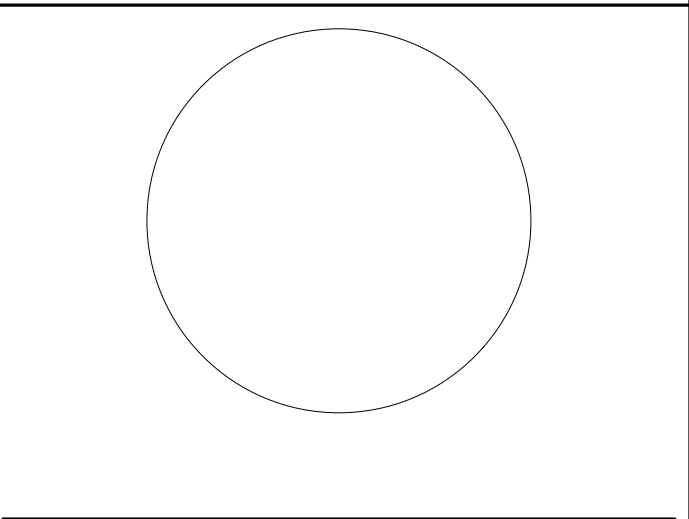
- FIRE ALARM SYSTEM CONTROL PANEL.
○ SMOKE DETECTOR(S).
○ SMOKE DUCT DETECTOR(S), INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR, FURNISHED BY THE ELECTRICAL CONTRACTOR.
○ COMBINATION FIRE SMOKE DAMPER (SIMILAR TO GREENHECK MODEL FSD-211 AT 1.5 HOUR RATING, OR GREENHECK MODEL FSD-231 AT 3 HOUR RATING).
○ SMOKE DAMPER.
○ POWER WIRING (120V-10-60HZ) BY ELECTRICAL CONTRACTOR.
○ DISCONNECT SWITCH.
○ TRANSFORMER, (ONLY REQUIRED FOR 24 VOLT DAMPERS, NOT 120 VOLT DAMPERS).
○ MOMENTARY TEST SWITCH WITH MANUAL RESET BUTTON. THE SWITCH ENABLES MAINTENANCE AND INSPECTION OF DAMPER BY ALLOWING DAMPER TO BE TESTED AND CYCLED BY ONE PERSON, RIGHT AT THE DAMPER LOCATION BY HOLDING THE TEST SWITCH DOWN.
○ OPEN OR CLOSED INDICATOR, (SIMILAR TO GREENHECK OCI OPTION). THIS IS SIMILAR TO END SWITCHES.
○ DAMPER INDICATOR LIGHTS, (REMOTE CONTROL PANEL BY MECHANICAL CONTRACTOR), MOUNT NEAR DAMPER AT CEILING.
○ AUTOMATIC TEMPERATURE CONTROL SYSTEM/PANEL.
○ COMBINATION TRANSFORMER/DISCONNECT SWITCH BY MECHANICAL CONTRACTOR.
○ POWER WIRING (120V-10-60HZ) BY ELECTRICAL CONTRACTOR.
○ HIGH LIMIT STATIC PRESSURE SENSOR, (TO PROTECT AGAINST HIGH STATIC PRESSURE WHEN DAMPERS CLOSE AND FAN IS RUNNING).
○ ASSOCIATED AIR HANDLING UNIT MOTOR STARTER/FAN CONTROL CIRCUIT.
○ AUXILIARY CONTACTS IN DUCT SMOKE DETECTOR FOR FIRE ALARM INDICATION TO ATC SYSTEM. WIRING BY MECHANICAL CONTRACTOR.
○ FIRE ALARM SYSTEM ALARM INPUT TO ATC SYSTEM / PANEL.
○ FIRE ALARM CONTROL, OR RELAY MODEL (SEE ELECTRICAL DRAWINGS FOR ADDRESSABLE MODELS).

EMERGENCY POWER SEQUENCE OF OPERATION

GENERAL
SEE DRAWING E-401 FOR BUILDING NO. 1 - ELECTRICAL SINGLE LINE DIAGRAM FOR DETAILS ON THE EMERGENCY GENERATOR ELECTRICAL DISTRIBUTION SYSTEM.
SEE DRAWING E-402 FOR BUILDING NO. 2 - ELECTRICAL SINGLE LINE DIAGRAM FOR DETAILS ON THE EMERGENCY GENERATOR ELECTRICAL DISTRIBUTION SYSTEM.
EMERGENCY GENERATOR OR TEMPORARY GENERATOR DOCKING STATION (SELECTED BY MANUAL SWITCH) SHALL PROVIDE POWER TO THE EMERGENCY SWITCHBOARD, EMERGENCY GENERATOR HAS A PROVISION FOR A FUTURE LOAD BANK.
EMERGENCY SWITCHGEAR FEEDS THE FOLLOWING:
• FIRE PUMP.
• LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS-LS).
• LEGALLY REQUIRED AUTOMATIC TRANSFER SWITCH (ATS-LR).
• OPTIONAL STAND-BY AUTOMATIC TRANSFER SWITCH NO. 1 (ATS-OS1).
• OPTIONAL STAND-BY AUTOMATIC TRANSFER SWITCH NO. 2 (ATS-OS2).
ATS-LS FEEDS EMERGENCY LIFE SAFETY PANEL.
ATS-LR FEED LEGALLY REQUIRED EMERGENCY PANEL.
ATS-OS1 FEEDS OPTIONAL STAND-BY EMERGENCY PANEL NO.1.
ATS-OS2 FEEDS OPTIONAL STAND-BY EMERGENCY PANEL NO.2.
SEE DRAWING FA-201 FOR BUILDING NO. 1 FIRE ALARM RISER DIAGRAM FOR DETAILS ON THE FIRE ALARM SYSTEM.
SEE DRAWING FA-202 FOR BUILDING NO. 2 FIRE ALARM RISER DIAGRAM FOR DETAILS ON THE FIRE ALARM SYSTEM INCLUDING THE FIRE ALARM SMOKE CONTROL PANEL FIREMAN'S OVERRIDE CONTROLS FOR STAIRWELL PRESSURIZATION (FANS SPF-1 & 2) AND SMOKE PURGE (RTUS 2-1 THRU 2-6).
ON LOSS OF NORMAL POWER
THE UNINTERRUPTED POWER SUPPLY (UPS) VIA ITS DRY CONTACT AND THE AUTOMATIC TRANSFER SWITCHES (ATS) DRY CONTACTS SHALL SIGNAL THE BASDDC/ATC SYSTEM HEAD END TO SWITCH FROM NORMAL OPERATION TO EMERGENCY POWER MODE AND IMPLEMENT THE FOLLOWING SEQUENCE OF OPERATIONS.
UPON LOSS OF NORMAL POWER, THE EMERGENCY GENERATOR WILL START. WITHIN 10 SECONDS THEREAFTER THE EMERGENCY LIFE SAFETY TRANSFER SWITCH, ATS-LS WILL TRANSFER AND ENERGIZE ALL OF THE EMERGENCY LIFE SAFETY LOADS.
THE ATS-LR WILL SEQUENTIALLY FOLLOW THE SAME SEQUENCE AS THE ATS-LS.
THEN THE OPTIONAL STANDBY ATS-OS (1 AND 2) SHALL BE PROGRAMMED SEQUENTIALLY TO TRANSFER APPROXIMATELY 60 SECONDS AFTER LOSS OF NORMAL POWER AND ENERGIZE THE OPTIONAL STAND-BY MECHANICAL LOADS IN A TIME-DELAYED SEQUENCE.
ALL HVAC EQUIPMENT SHALL CYCLE ON AS A TIME-DELAYED SEQUENCE.
ROOFTOP UNITS (RTUS) WITH COOLING TO OPERATE IN VENTILATION MODE (SUPPLY AIR AND RETURN/EXHAUST AIR FANS RUNNING) AND GAS HEATING MODE ONLY. CONTROL SYSTEM SHALL LOCK OUT DX COOLING WHILE RUNNING ON EMERGENCY POWER.
TIME DELAY AND EQUIPMENT TO BE STARTED/STOPPED SHALL BE ADJUSTABLE.
ON RETURN OF NORMAL POWER
ALL HVAC EQUIPMENT SHALL CYCLE OFF AND STAGE RESTART BY AN MINIMUM DELAY OF 2 MINUTES (ADJUSTABLE).
TYPICAL CONTROL POINTS TO BE MONITORED
ATS:
• NORMAL SOURCE VOLTAGE AVAILABILITY
• EMERGENCY SOURCE VOLTAGE AVAILABILITY
• STATUS
• ALARM
EMERGENCY GENERATOR:
• STATUS
• ALARM
• BACNET OR APPROVED PROTOCOL INTERFACE

2 Emergency Generator Inerfaces

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NJ Landscape Architecture Certificate No.: 21MH0010330
NJ Engineering Certificate of Authorization No.: 24GA26019100



DESIGNED BY: JSK/DKR, DRAWN BY: DKR, CHECKED BY: JSK, REVIEWED BY: JCM
PROJECT No: DIGA2301, DATE: 11/08/2023, SCALE: AS SHOWN

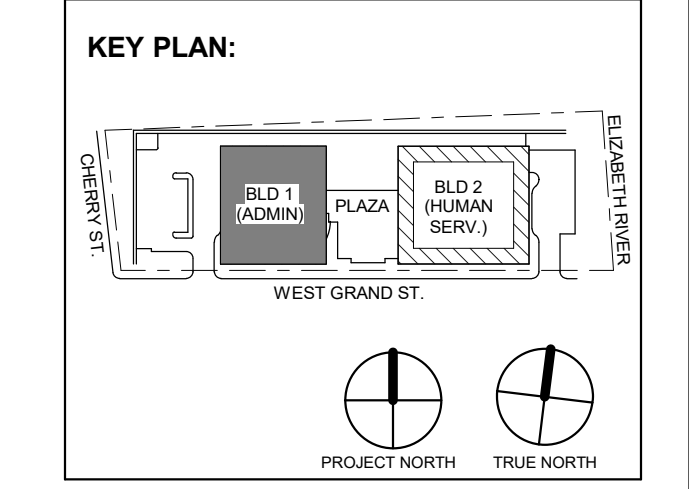


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Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

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

Sheet Name: BUILDING NO. 1&2 - MECHANICAL CONTROL DIAGRAMS (4 OF 4)

Sheet No: M-504

ABBREVIATIONS

Table of abbreviations for electrical symbols, including terms like AMP, ANT, ARCH, AS, ATC, etc.

CIRCUIT PROTECTION / DISCONNECT/MOTOR CONTROL

Table defining symbols for circuit protection, disconnect, and motor control, such as ELEC. PANEL BOARD, DISCONNECT, FUSED DISCONNECT, etc.

INTERCOM SYSTEM

Table defining symbols for intercom system components like MTS, N, NIS, etc.

WIRING

Table defining symbols for various wiring types and conditions, such as BRANCH CIRCUIT WIRING, CONCEALED WIRING, etc.

WIRING DEVICES AND BOXES

Table defining symbols for wiring devices and boxes, including SINGLE RECEPTACLE, DUPLEX RECEPTACLE, etc.

LIGHTING FIXTURES

Table defining symbols for lighting fixtures, such as UNFUSED SAFETY SWITCH, FUSED SAFETY SWITCH, etc.

CONTROL DEVICES

Table defining symbols for control devices like SXP, NS, nBG, nCM, nCP, nCY, nPD, nPE, etc.

TYPICAL VOLTAGE DROP CALCULATIONS

Table showing typical voltage drop calculations for different wire sizes and distances.

SINGLE LINE DIAGRAM

Table defining symbols for single line diagrams, including UNFUSED SAFETY SWITCH, TRANSFORMER, FUSE, etc.

POWER DISTRIBUTION

Table defining symbols for power distribution components like BUS DUCT, BUS DUCT RISER, etc.

RACEWAYS

Table defining symbols for raceway systems, including SURFACE MOUNTED RACEWAY, UNDERFLOOR DUCT, etc.

GROUNDING SYMBOLS

Table defining symbols for grounding symbols like TRANSIENT VOLTAGE SURGE SUPPRESSOR, GROUND CONDUCTOR, etc.

ELECTRICAL REFERENCE NOTES

- List of electrical reference notes providing additional context for symbols and standards.

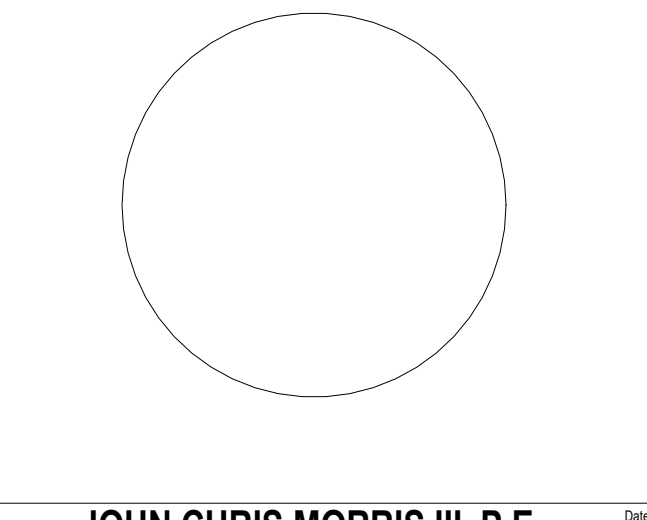
LIGHTNING PROTECTION SYSTEM NOTES - DELEGATED DESIGN

- List of lightning protection system notes detailing design requirements and standards.

GENERAL ELECTRICAL PROJECT NOTES

- General electrical project notes providing overall project instructions, safety protocols, and coordination requirements.

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054



JOHN CHRIS MORRIS III, P.E.

Table with project details including project name, date, scale, and drawing status.

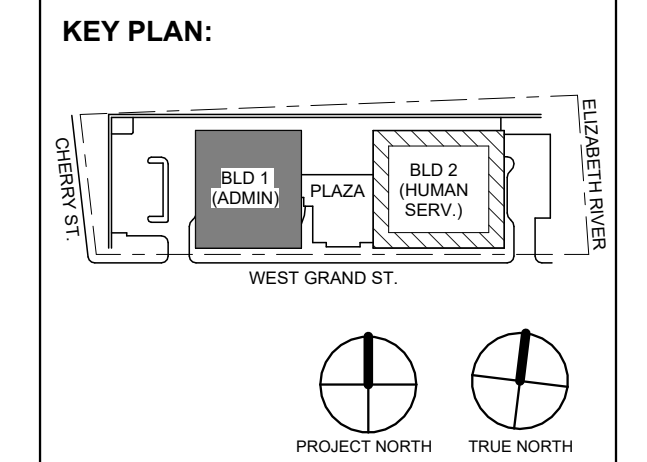


Table with revision history, including date, description, and author of changes.

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Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET

Drawing Information: Project No: 20.072 Date: 11.08.2023

Sheet Name: ELECTRICAL LEAD SHEET

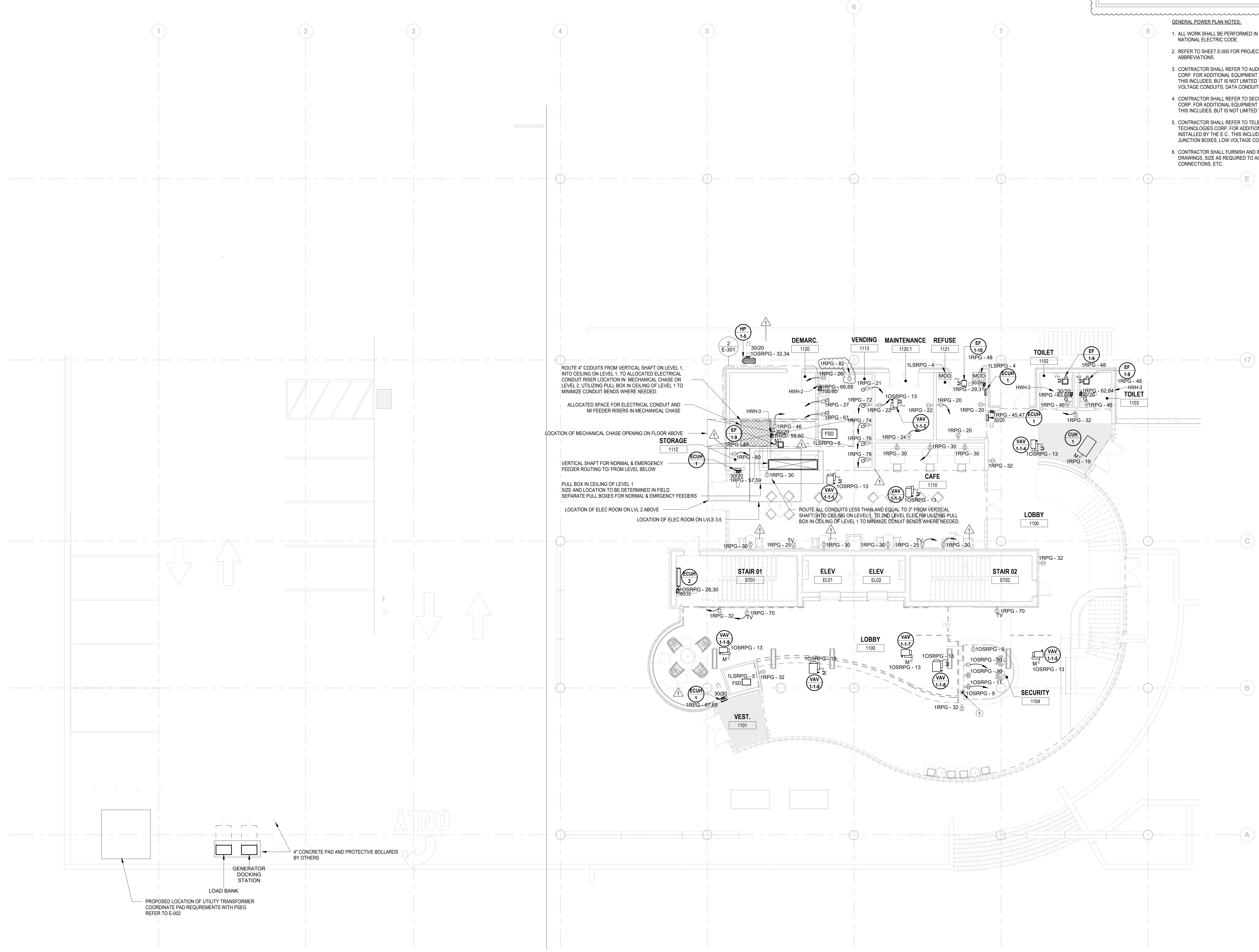
E-001

Electrical Keynote table with 2 columns: Key Value, Keynote Text. Key 1: E.C. SHALL FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FIRE RATED 8" POKE THRU WITH (2) QUADPLEX RECEPTACLES AND DATA OUTLET DEVICES...

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...

GENERAL POWER PLAN 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. 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 CONDUITS, POWER CONDUITS, ETC.



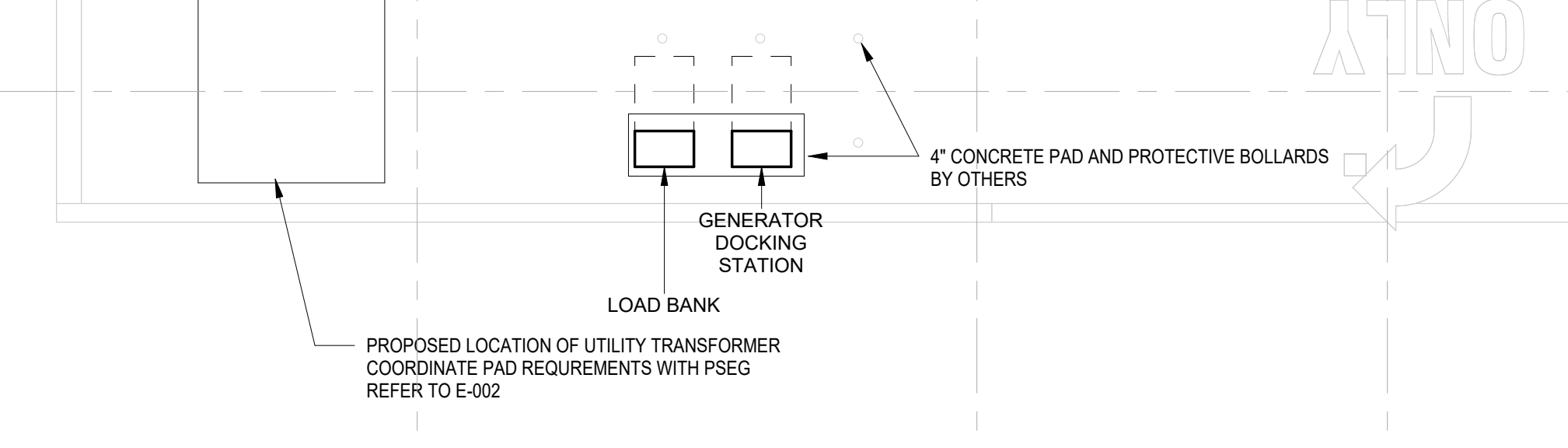
ROUTE 4" CONDUITS FROM VERTICAL SHAFT ON LEVEL 1 INTO CEILING ON LEVEL 1, TO ALLOCATED ELECTRICAL CONDUIT RISER LOCATION IN MECHANICAL CHASE ON LEVEL 2, UTILIZING PULL BOX IN CEILING OF LEVEL 1 TO MINIMIZE CONDUIT BENDS WHERE NEEDED.

VERTICAL SHAFT FOR NORMAL & EMERGENCY FEEDER ROUTING TO/ FROM LEVEL BELOW

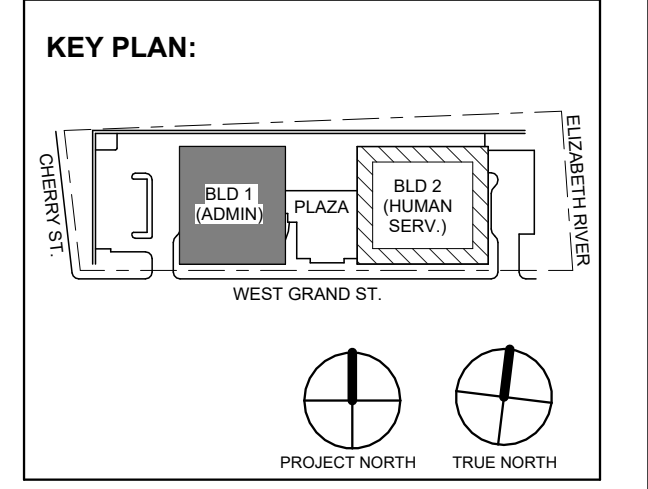
PULL BOX IN CEILING OF LEVEL 1 SIZE AND LOCATION TO BE DETERMINED IN FIELD SEPARATE PULL BOXES FOR NORMAL & EMERGENCY FEEDERS

LOCATION OF ELEC ROOM ON LVL 2 ABOVE

LOCATION OF ELEC ROOM ON LVL 3-5



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



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

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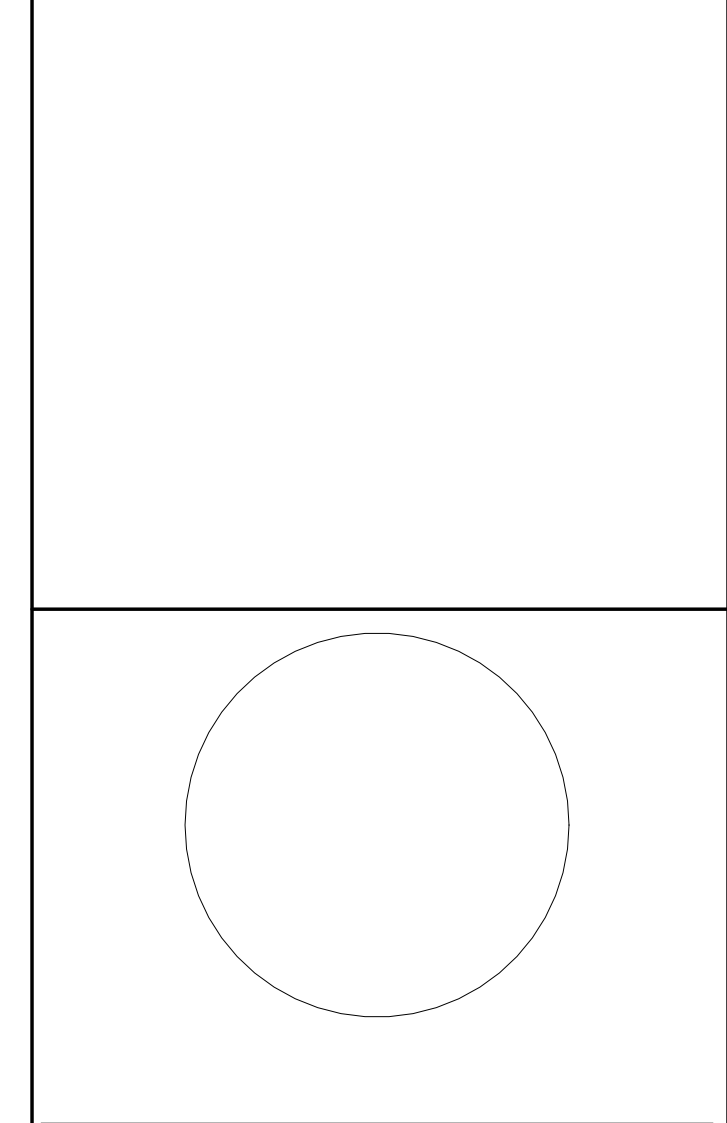
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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 - LEVEL 1 - ELECTRICAL POWER PLAN

Sheet No: E-102



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

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

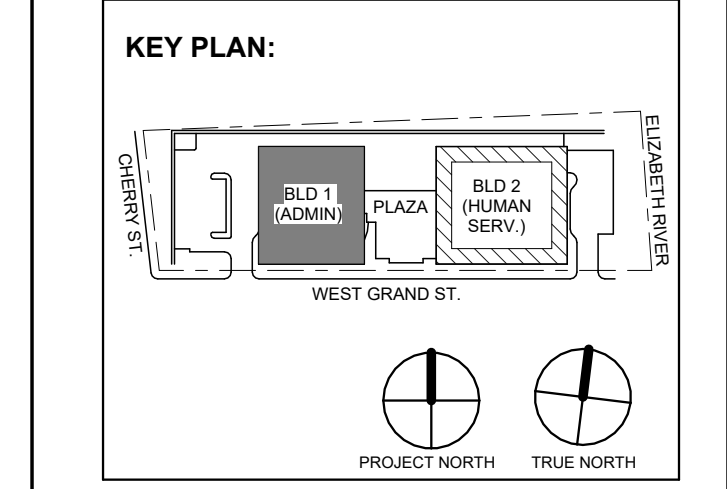


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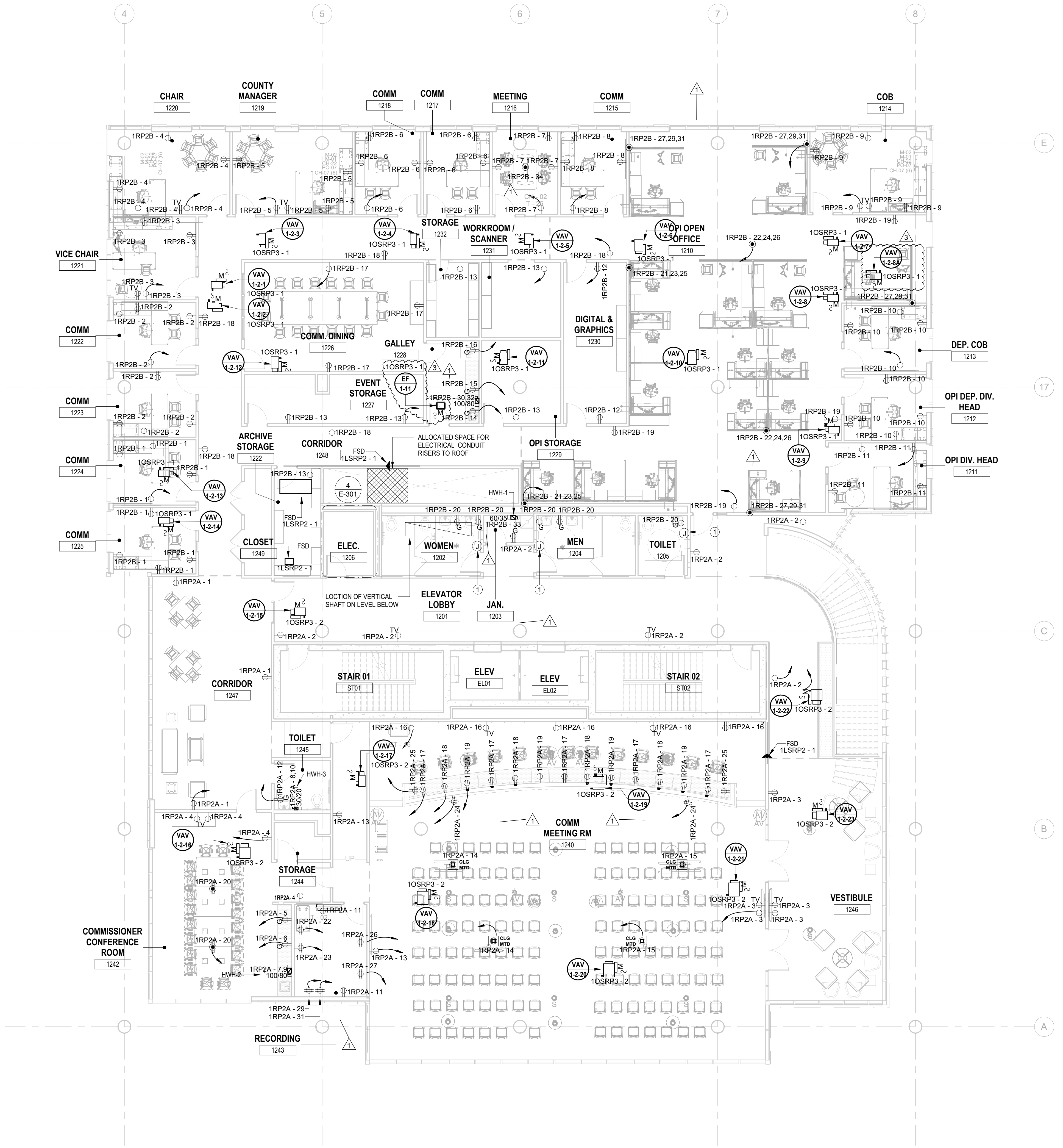
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

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

Sheet No: E-103

ELECTRICAL KEYNOTE 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. 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. CONDUITS FOR WALL MOUNTED DEVICES SHALL RUN UP TO ABOVE CEILING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUITS WITH 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.

- GENERAL POWER PLAN 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, LEGENED 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 CONDUITS, 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. 1 - LEVEL 2 - ELECTRICAL POWER PLAN SCALE: 1/8" = 1'-0"

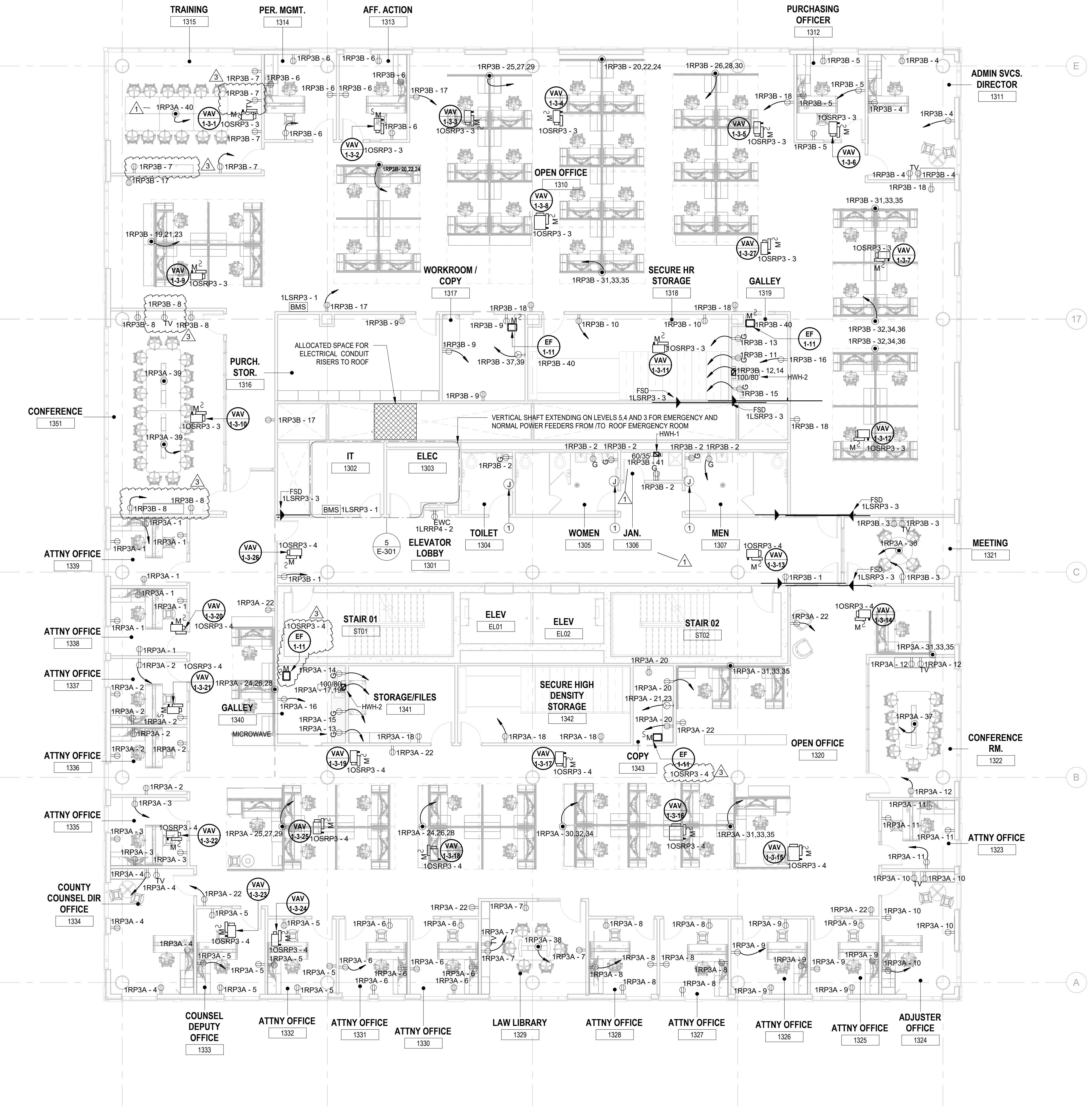


ELECTRICAL KEYNOTE	
Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM

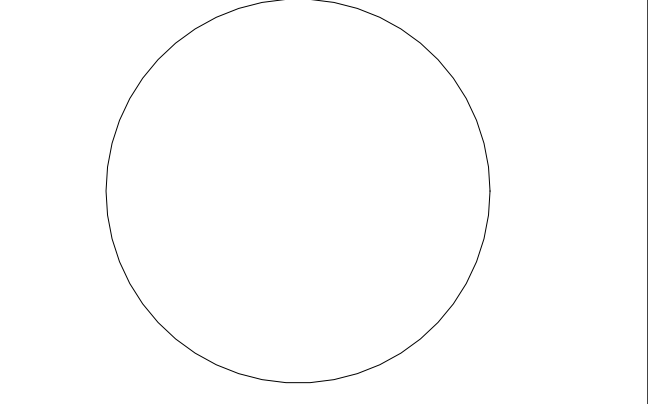
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RACEWAY AND BOXES FOR ALL LOW VOLTAGE DEVICES. SEE IT/AV AND SECURITY PLANS AS PREPARED BY MSE FOR DEVICE LOCATIONS AND CONDUIT SIZING/ROUTING. CONDUITS FOR WALL MOUNTED DEVICES SHALL RUN UP TO ABOVE CEILING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR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

GENERAL POWER PLAN 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 LEGENED AND ABBREVIATIONS.
- 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 CONDUITS, POWER CONDUITS, ETC.
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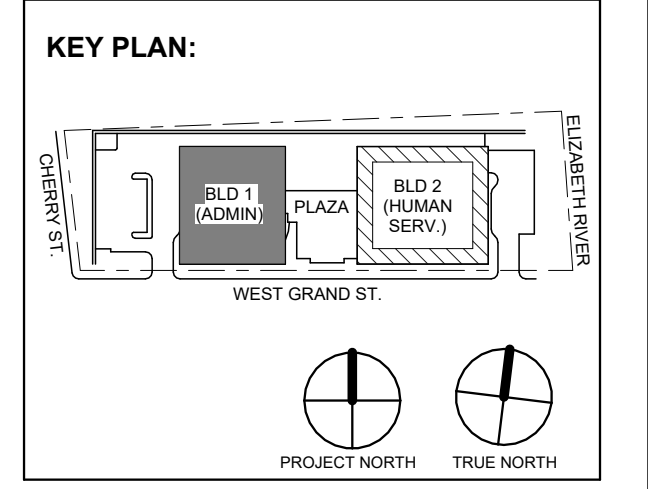


1 BUILDING NO.1 - LEVEL 3 - ELECTRICAL POWER PLAN
 E-104 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



JOHN CHRIS MORRIS III, P.E.
 ALTERNATE OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LEGAL.
 DESIGNED BY: J.J.L. DRAWN BY: J.S.G. CHECKED BY: J.C.M. REVIEWED BY: J.C.M.

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



No.	Date	Description
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: 732.249.6242
 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

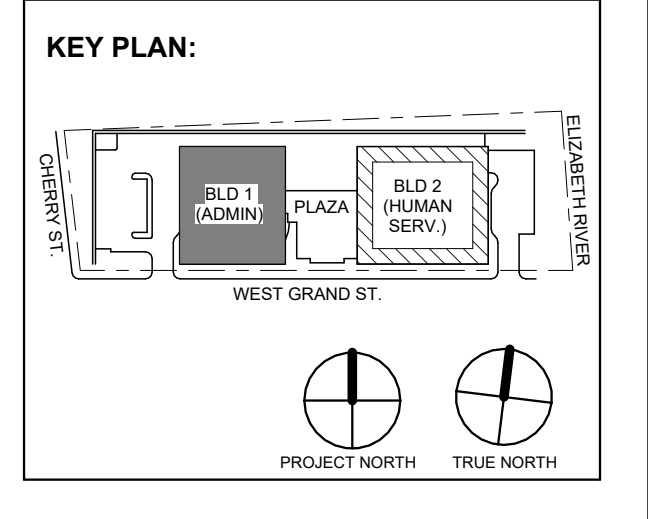
Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

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

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

Sheet No:

E-104



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

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Jeffrey D. Venezia, AIA NJ RA AI 00827100

PRELIMINARY NOT FOR CONSTRUCTION

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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/VP/C Checked By: JM/SH

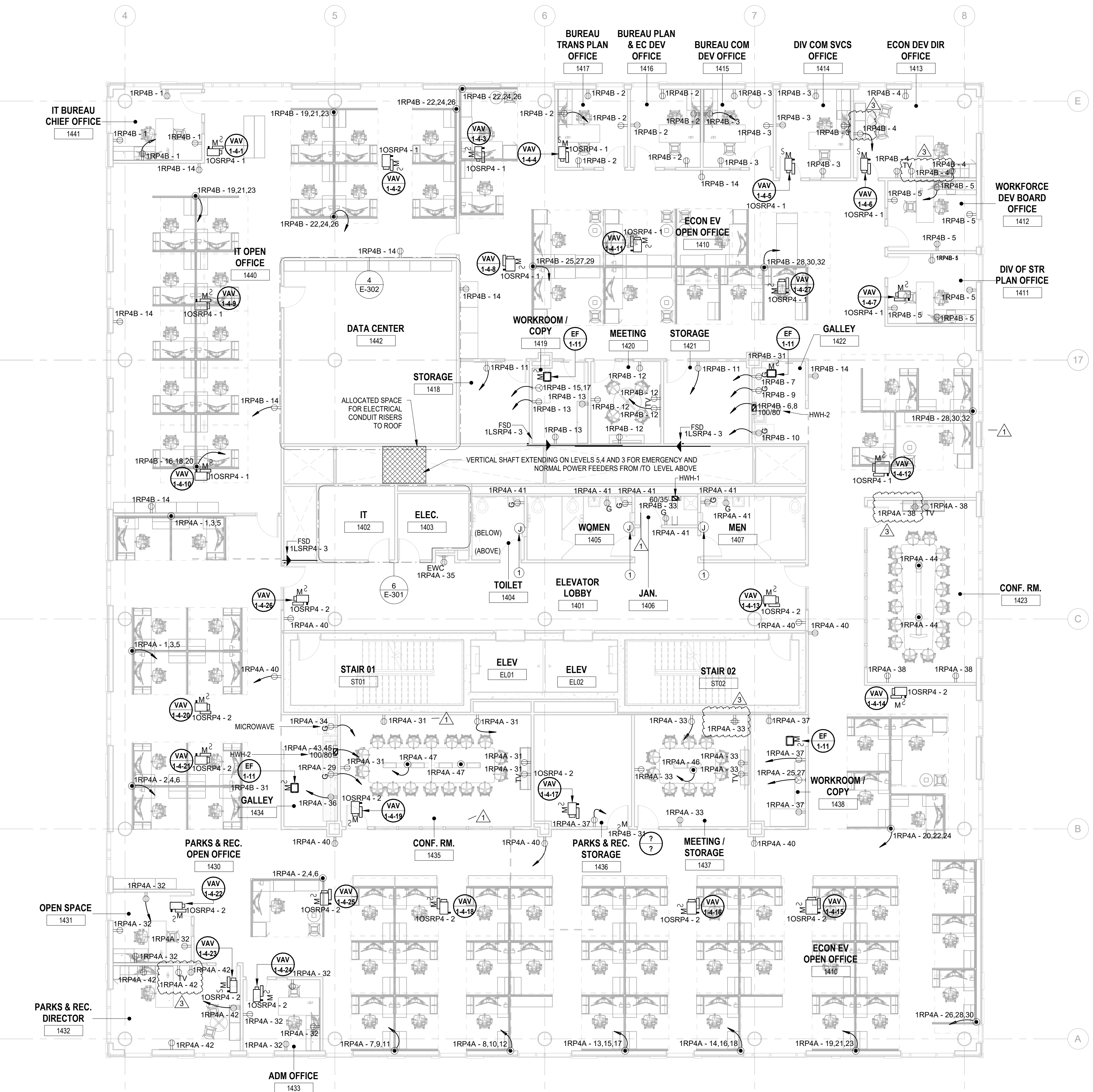
Sheet Name: BUILDING NO. 1 - LEVEL 4 - ELECTRICAL POWER PLAN

Sheet No:

E-105

ELECTRICAL KEYNOTE 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. 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. 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 BUSHING SHOWN/CALLED FOR AS PART OF THE ITAV AND SECURITY PLANS AND SPEC.

- GENERAL POWER PLAN 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 LEGENED 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 CONDUITS, 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.



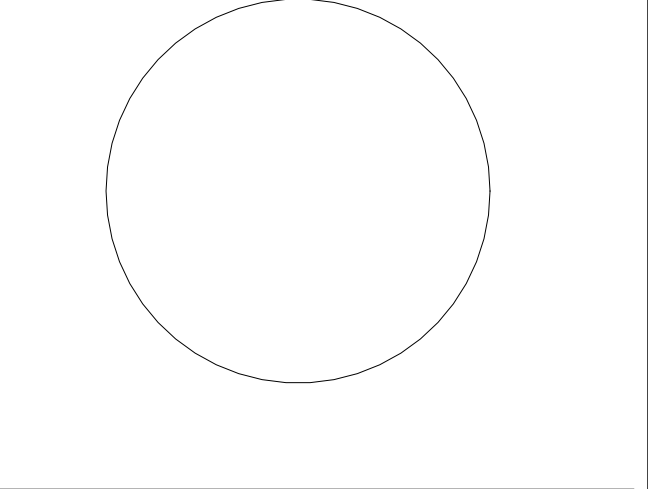
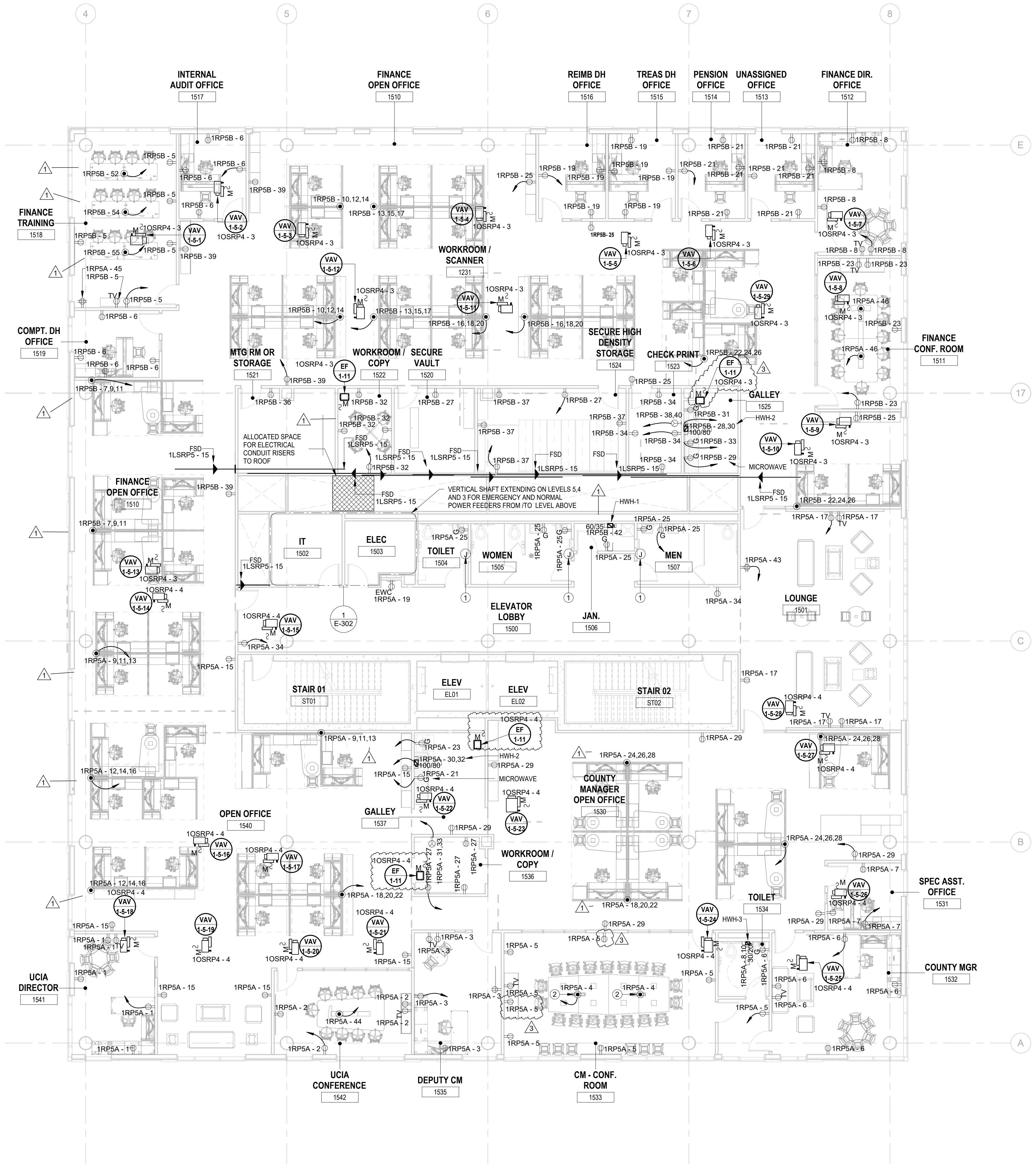
1 BUILDING NO.1 - LEVEL 4 - ELECTRICAL POWER PLAN E-105 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

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.
2	E.C. SHALL FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FIRE RATED BY POKE THRU WITH (2) QUADRAPEX RECEPTACLES, DATA & AV OUTLET DEVICES. COORDINATE DATA & AV 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 IT/AV 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 WITH 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.

GENERAL POWER PLAN NOTES:

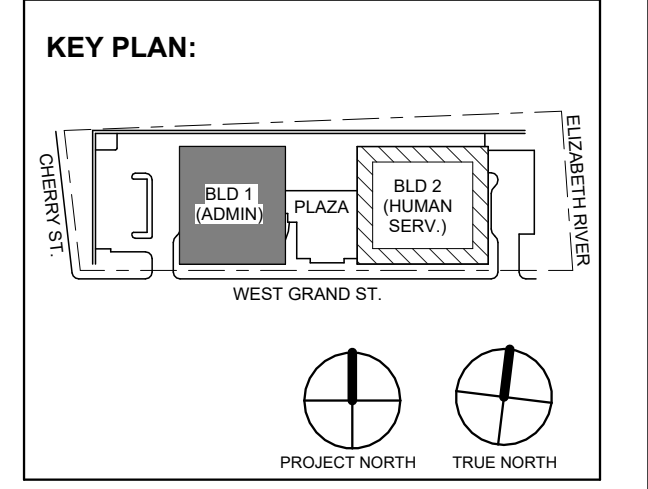
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6. CONTRACTOR SHALL FURNISH AND INSTALL FLOOR BOXES WHERE INDICATED ON DRAWINGS. SIZE AS REQUIRED TO ACCOMMODATE ALL POWER, AV, DATA CONNECTIONS, ETC.



JOHN CHRIS MORRIS III, P.E.

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



No.	Date	Description
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

PRELIMINARY NOT FOR CONSTRUCTION

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

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 - LEVEL 5 - ELECTRICAL POWER PLAN

Sheet No: E-106

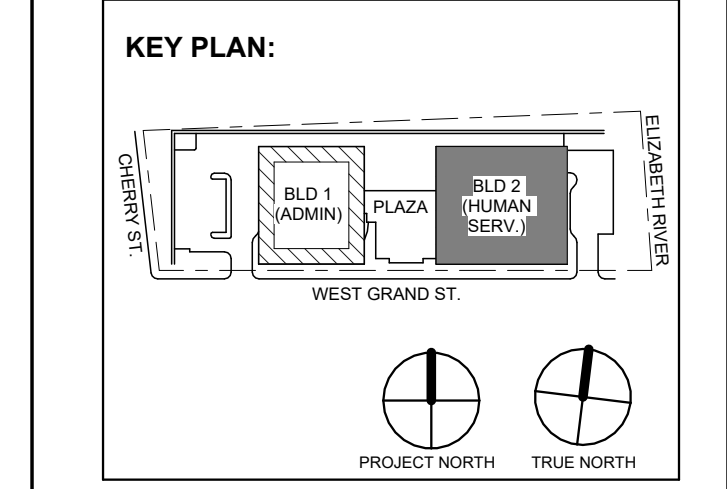


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Client: UNION COUNTY IMPROVEMENT AUTHORITY

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 1 - ELECTRICAL POWER PLAN

Sheet No:

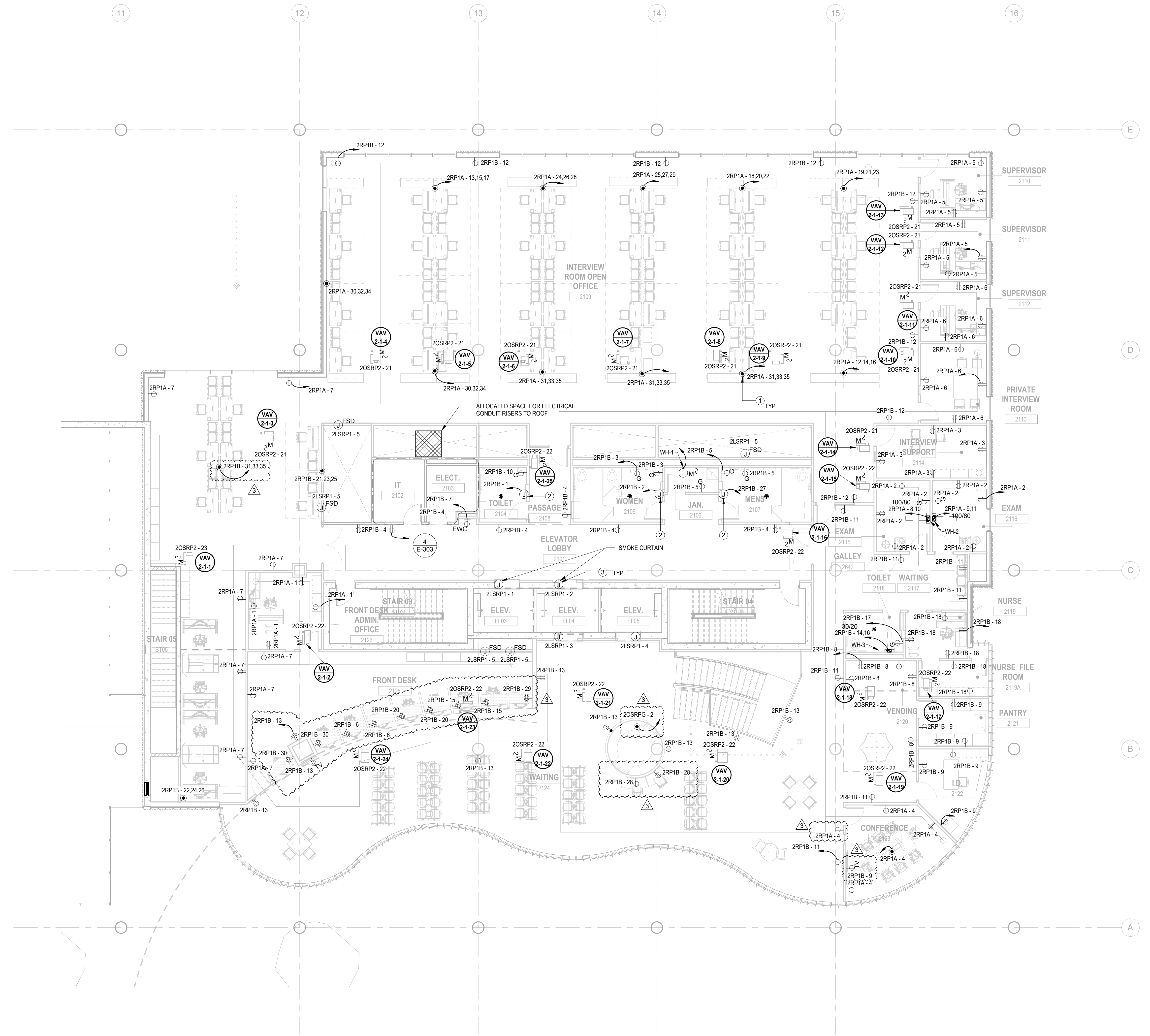
E-111

ELECTRICAL KEYNOTE table with 2 columns: Key Value, Keynote Text. Row 1: 1, E.C. SHALL COORDINATE EXACT INSTALLATION LOCATION OF POKE-THRU WITH FURNITURE SHOP DRAWINGS & ARCHITECTURAL DRAWINGS IN FIELD PRIOR TO ROUGH-IN - TYPICAL FOR ALL POWERED FURNITURE POKE-THRU'S. POKE-THRU SHALL BE LEGRAND FIRE RATED EVOLUTION SERIES. FINISHES TO BE COORDINATED WITH ARCHITECT. POWER. Row 2: 2, 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. Row 3: 3, 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 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.

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1 BUILDING NO. 2 - LEVEL 1 - ELECTRICAL POWER PLAN E-111 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

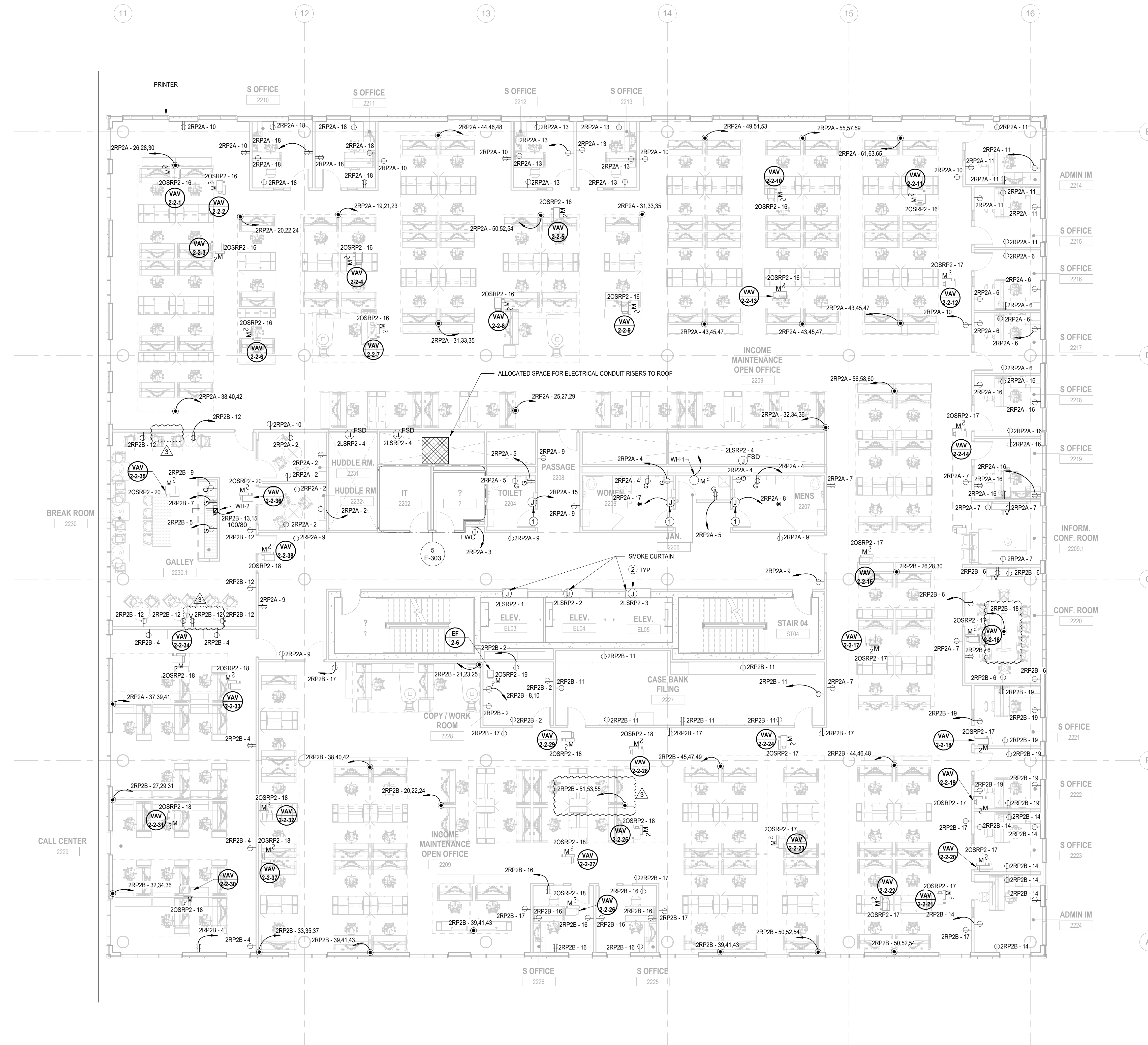


ELECTRICAL KEYNOTE	
Key Value	Keynote Text
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GENERAL POWER PLAN NOTES:

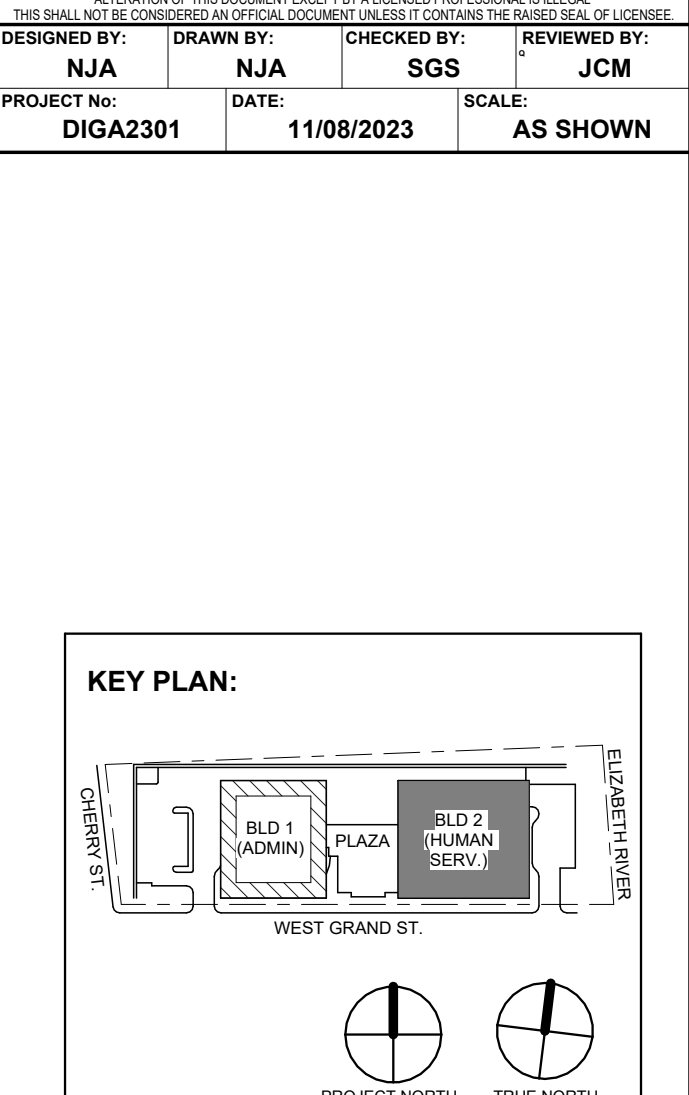
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1 BUILDING NO. 2 - LEVEL 2 - ELECTRICAL POWER PLAN
 E-112 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8" = 1'-0"

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 Parsippany, NJ 07054
 862.207.5900 www.h2m.com
 NJ Landscape Architecture Certificate No.: 21MH00010300
 NJ Engineering Certificate of Authorization No.: 246A28019100

JOHN CHRIS MORRIS III, P.E.
 LICENSED PROFESSIONAL ENGINEER IN ELECTRICAL
 DESIGNER BY: N/A DRAWN BY: N/A CHECKED BY: N/A REVIEWED BY: N/A
 PROJECT NO: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



No.	Date	Description
3	12.15.2023	Addendum No. 03
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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 2 - ELECTRICAL POWER PLAN

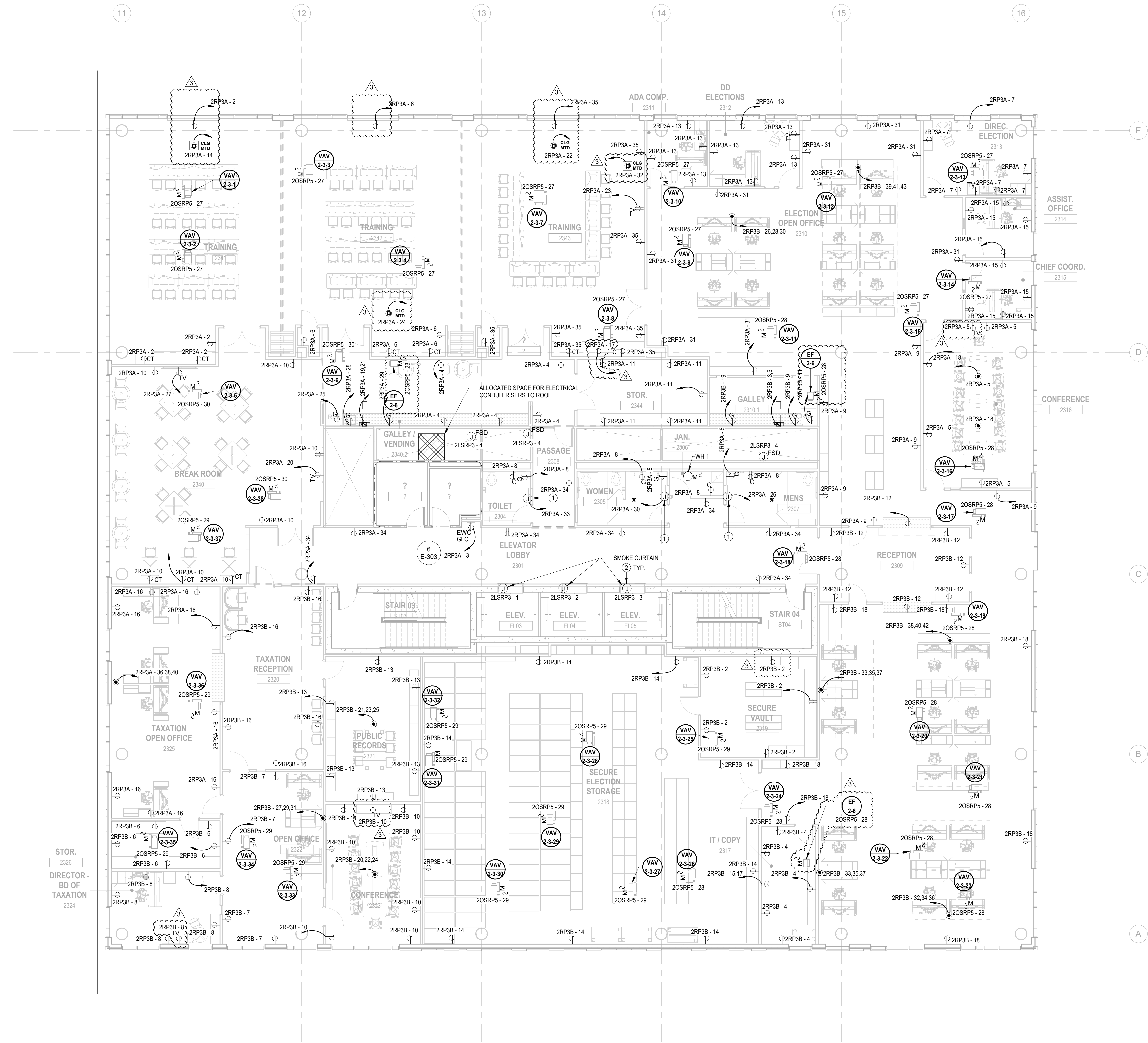
Sheet No:
E-112

ELECTRICAL KEYNOTE	
Key Value	Keynote Text
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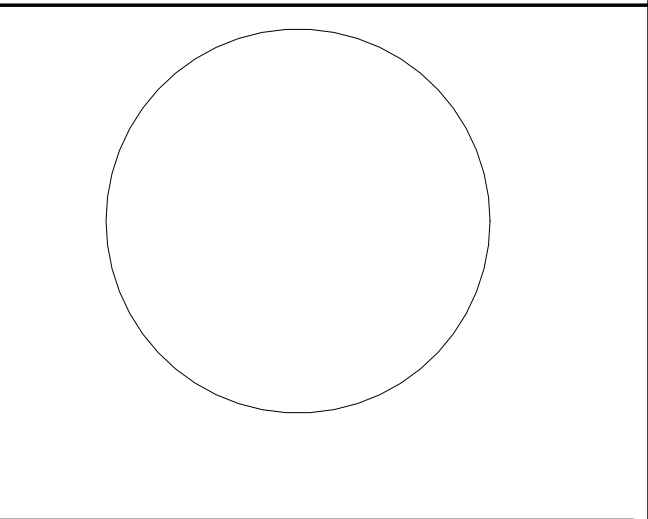
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GENERAL POWER PLAN NOTES:

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.
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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.



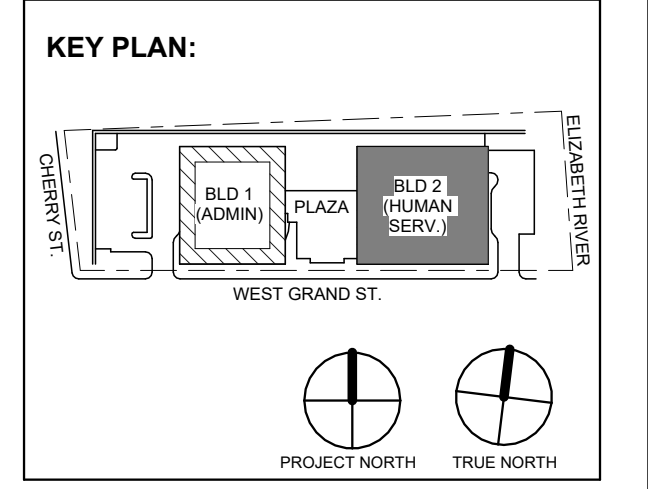
1 BUILDING NO.2 - LEVEL 3 - ELECTRICAL POWER PLAN
 E-113 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



JOHN CHRIS MORRIS III, P.E.
 LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY
 NO. 120000001

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

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



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

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 NJ RA #A 00827100

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Project:
 UNION COUNTY GOVERNMENT COMPLEX
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 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 3 - ELECTRICAL POWER PLAN

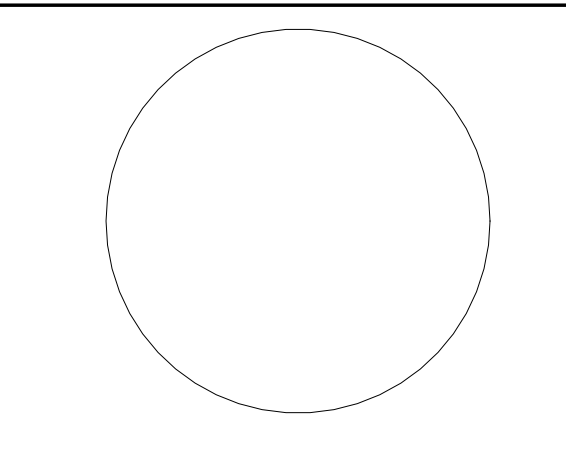
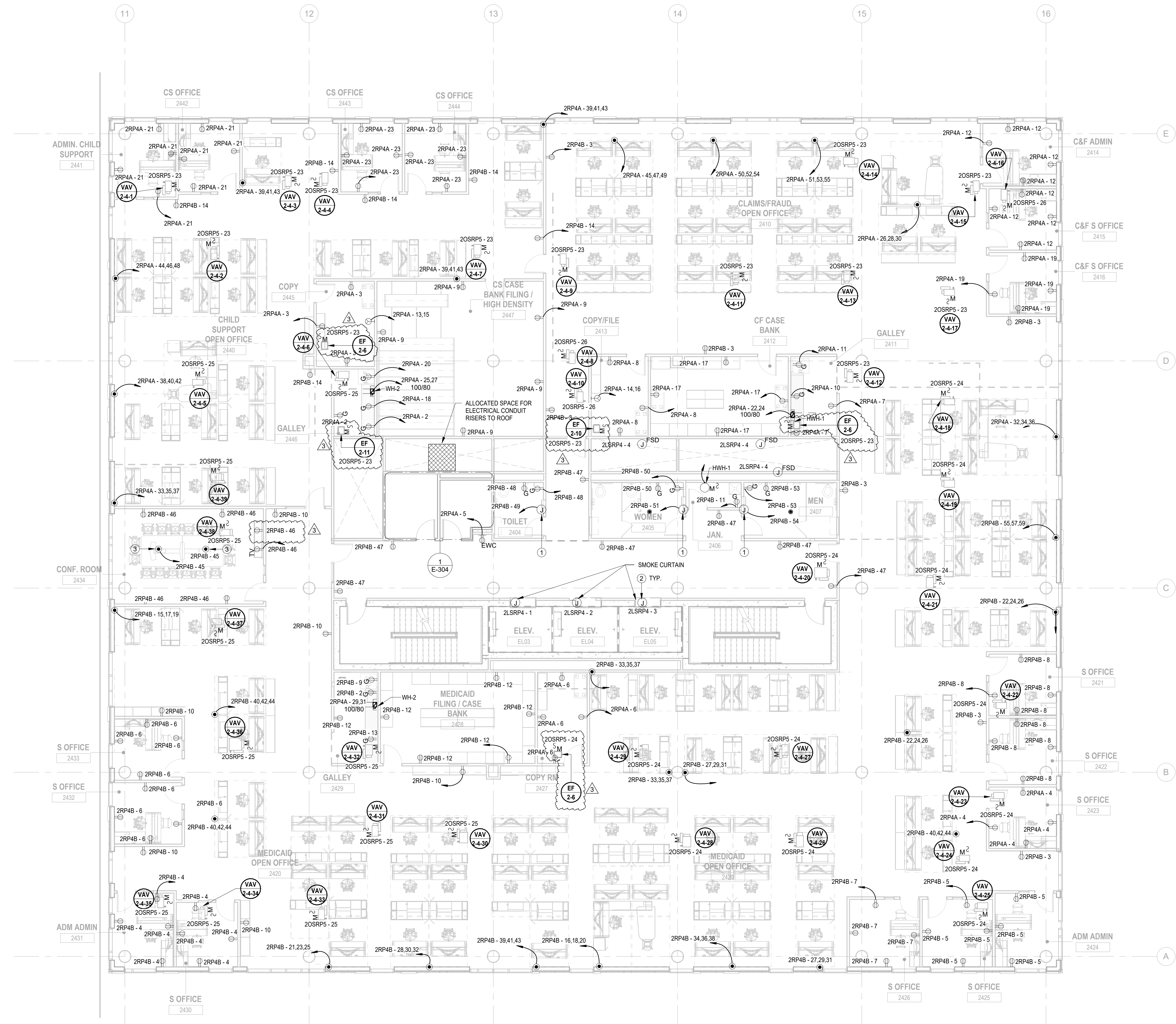
Sheet No:
E-113

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.
3	E.C. SHALL FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FIRE RATED 6" POKE THRU WITH (2) QUADRAPLEX RECEPTACLES, DATA & AV OUTLET DEVICES. COORDINATE DATA & AV 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 IT/AV 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 WITH 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.

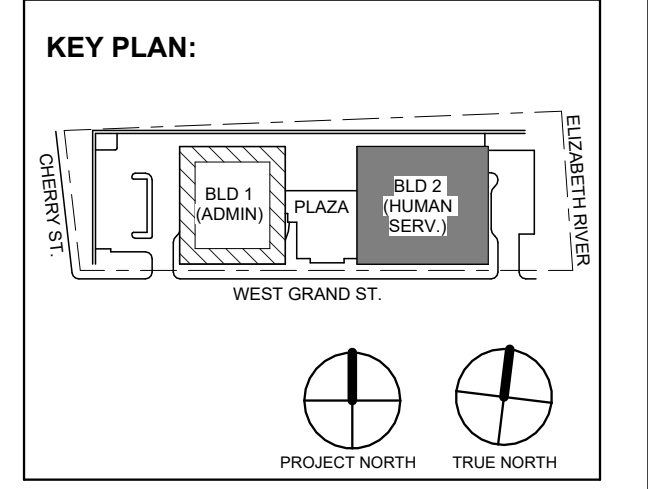
GENERAL POWER PLAN NOTES:

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



JOHN CHRIS MORRIS III, P.E.

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY
NJA	NJA	SGS	JCM
PROJECT NO.	DATE	SCALE	AS SHOWN
DIG2301	11/08/2023		



3	12/15/2023	Addendum No. 03
1	12/01/2023	Addendum No. 01
	11/08/2023	For Public Bid
No.	Date	Description
		Revisions / Issues

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NJ RA AI 00827100

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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/VPC
Checked By: JM/SH

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

Sheet No:
E-114

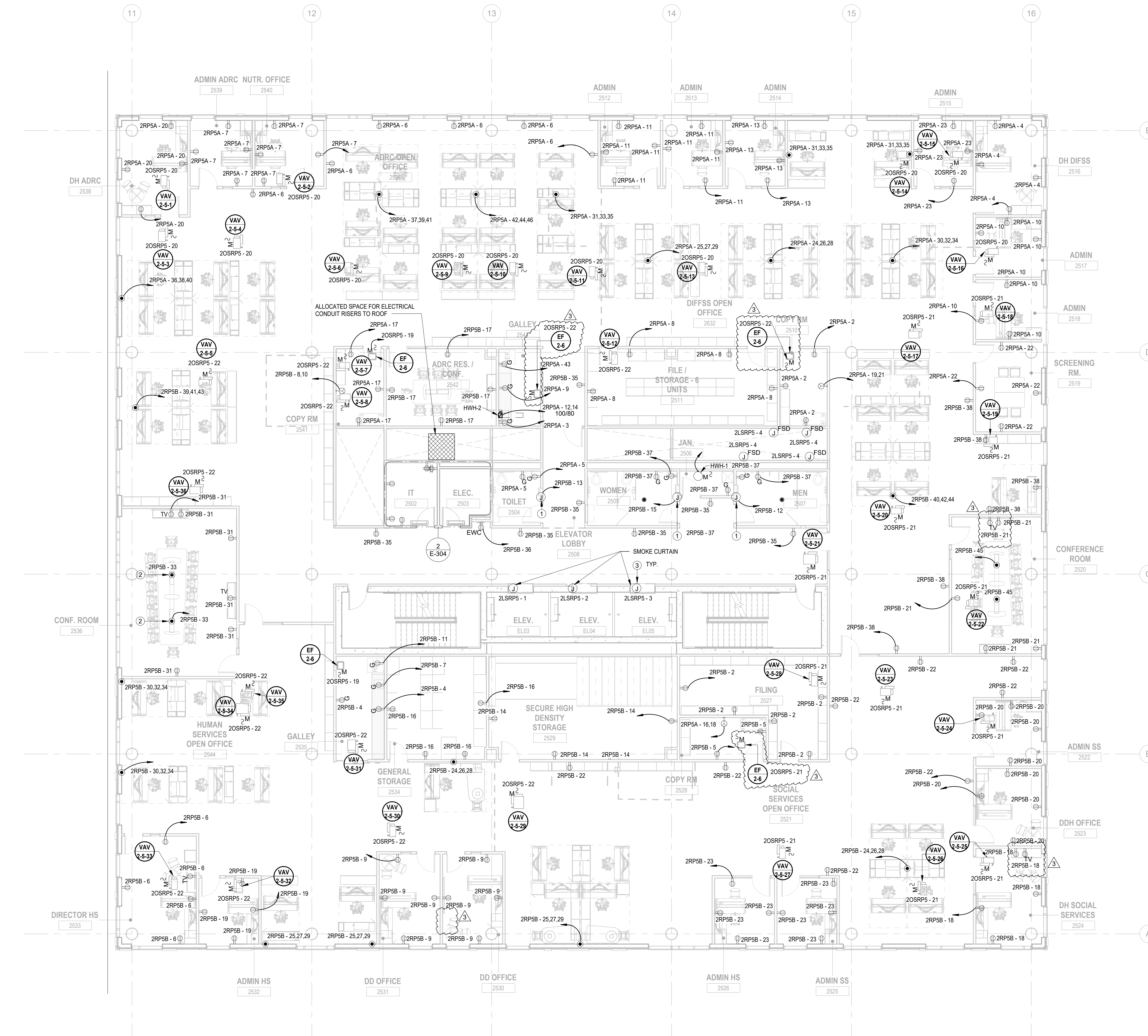


Key Value	Keynote Text
1	E.C. SHALL COORDINATE PROPOSED LOCATION OF A "FUTURE" HAND DRYER AND FURNISH AND INSTALL 3/4" CONDUIT WITH PULL STRING FROM EACH LOCATION BACK TO ELECTRICAL ROOM.
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3	SMOKE CURTAINS SHALL BE TIED INTO FIRE ALARM SYSTEM. E.C.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

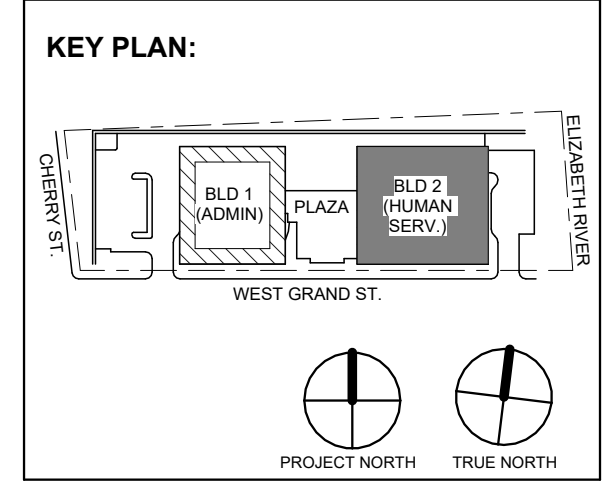
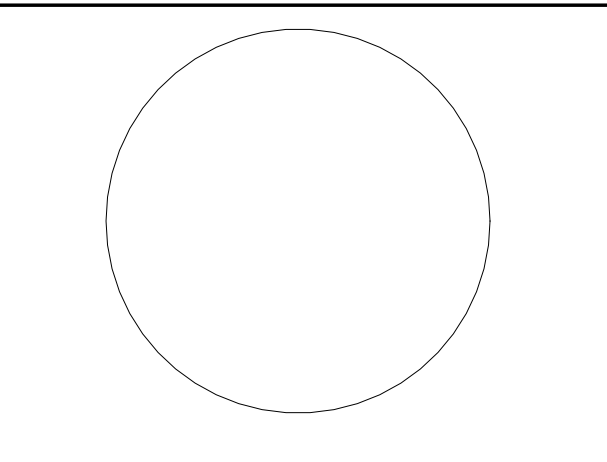
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1 BUILDING NO. 2 - LEVEL 5 - ELECTRICAL POWER PLAN
 E-115 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



No.	Date	Description
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:
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Project:
 UNION COUNTY GOVERNMENT COMPLEX
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 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 - LEVEL 5 - ELECTRICAL POWER PLAN

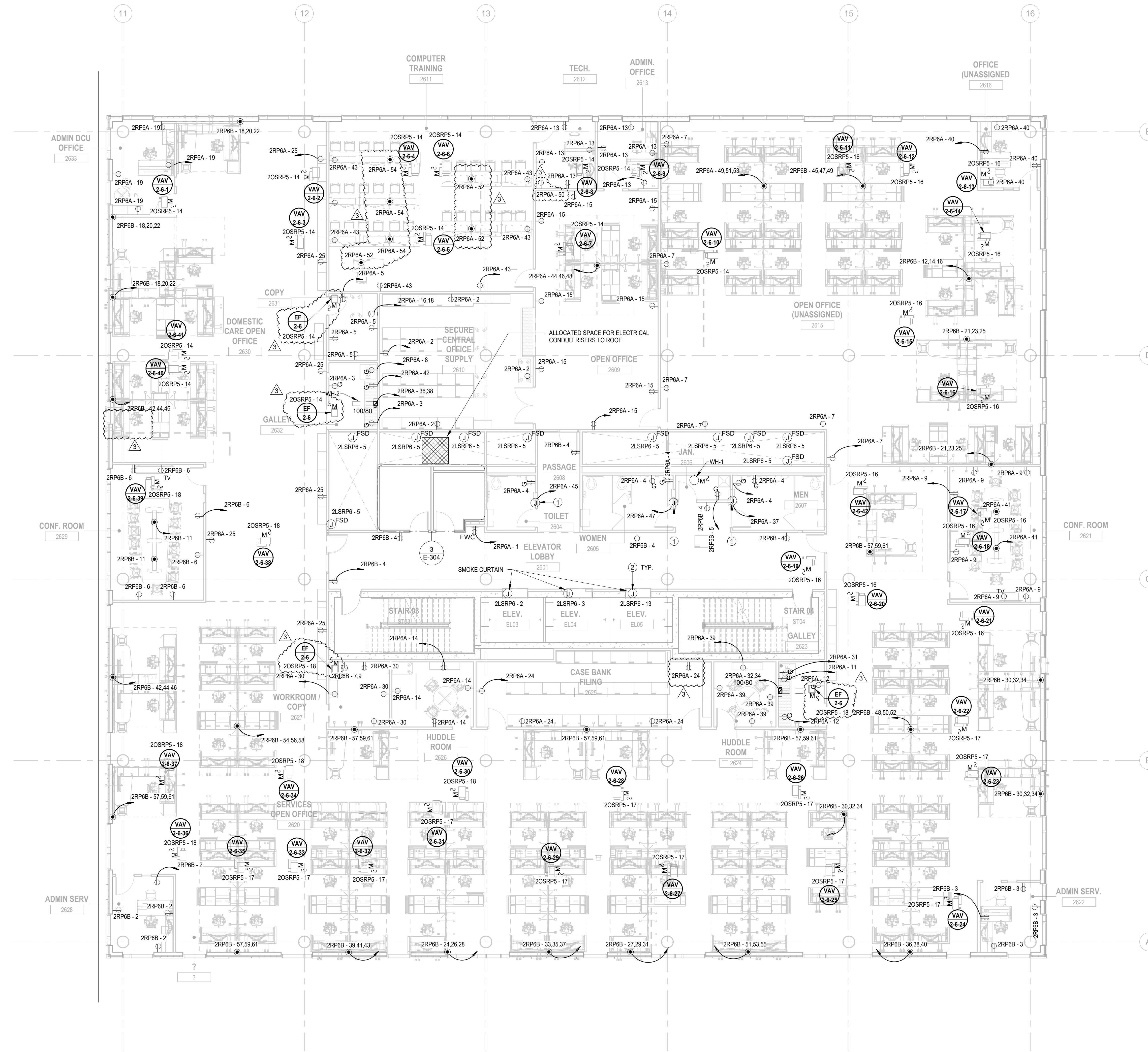
Sheet No:
 E-115

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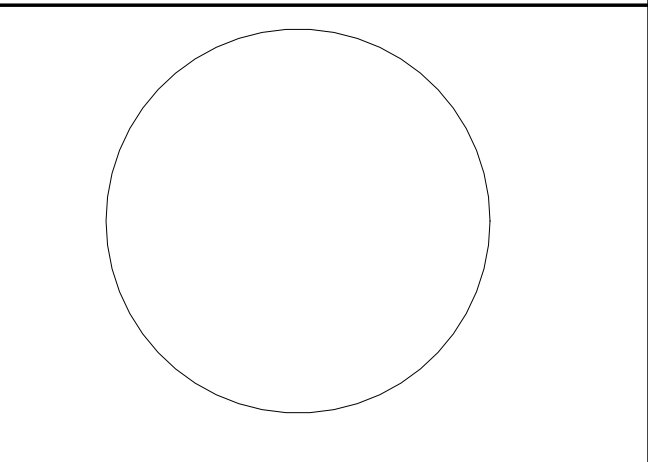
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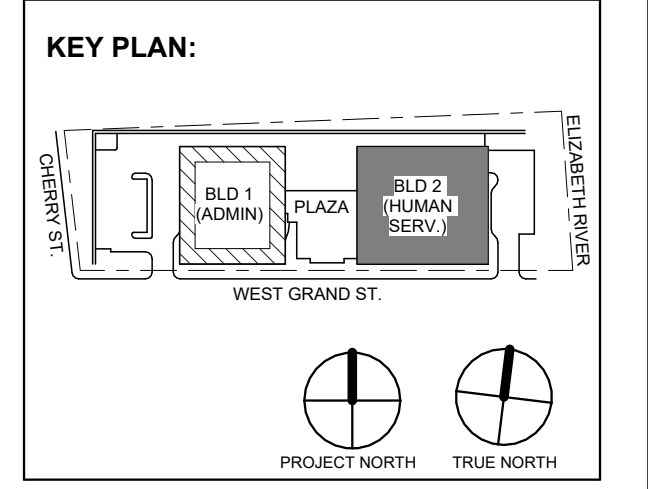
1 BUILDING NO.2 - LEVEL 6 - ELECTRICAL POWER PLAN
 E-116 SCALE: 1/8" = 1'-0"
 SCALE BAR: 1/8"=1'-0"



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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



No.	Date	Description
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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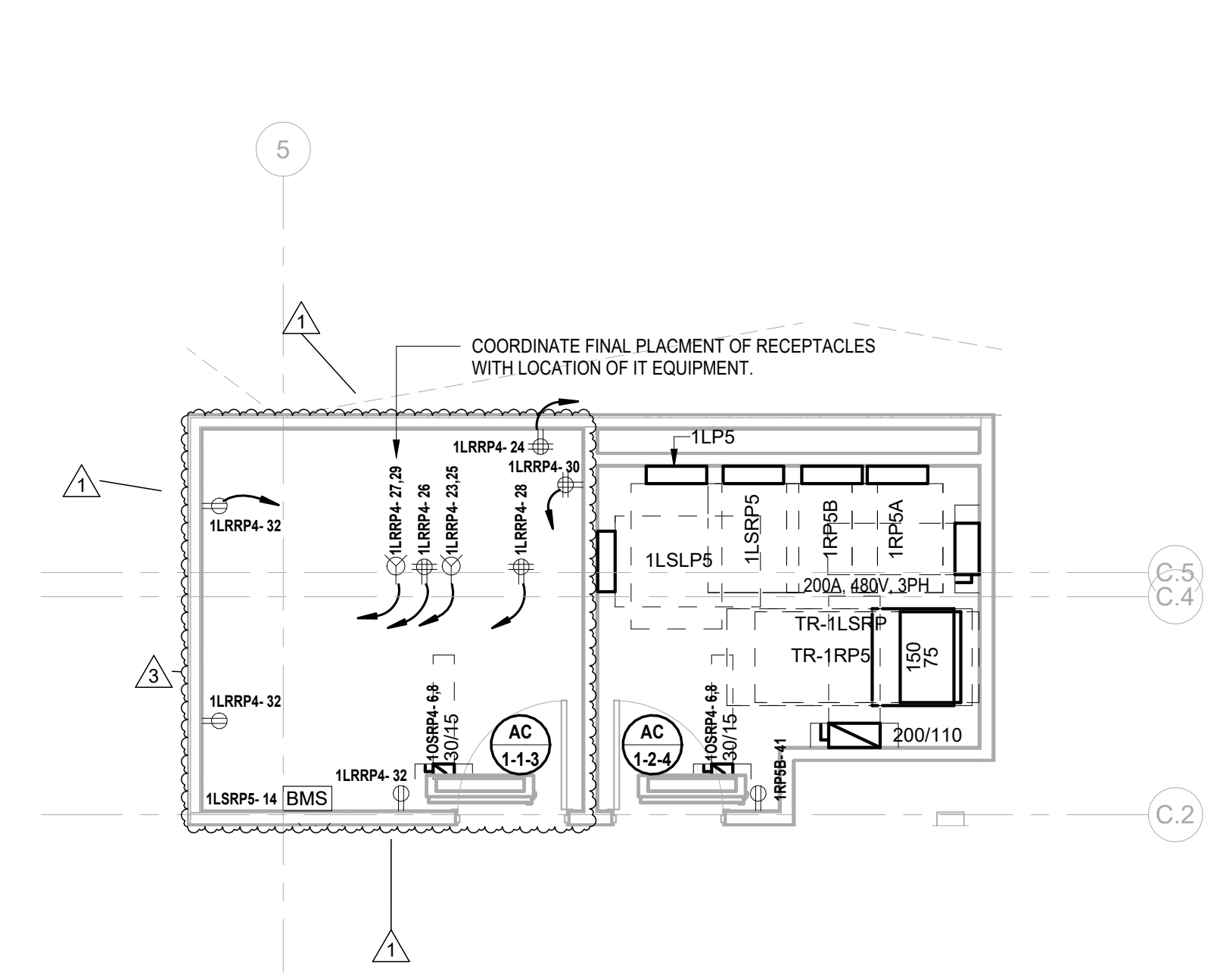
Client:
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Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 83 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

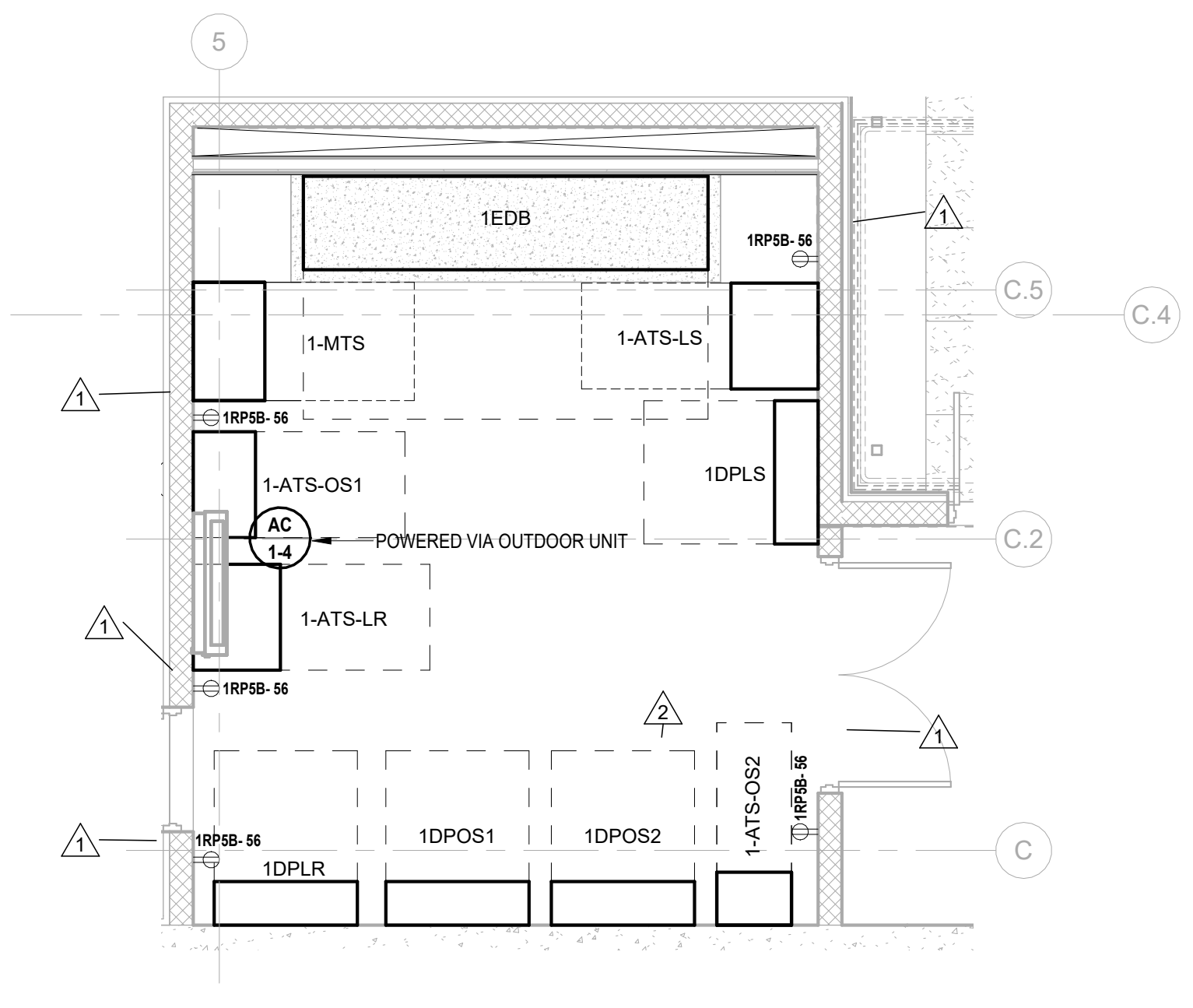
Drawing Information:
 Project No: 20.072
 Date: 11/08/2023
 Drawn By: JBAV/PC
 Checked By: JM/SH

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

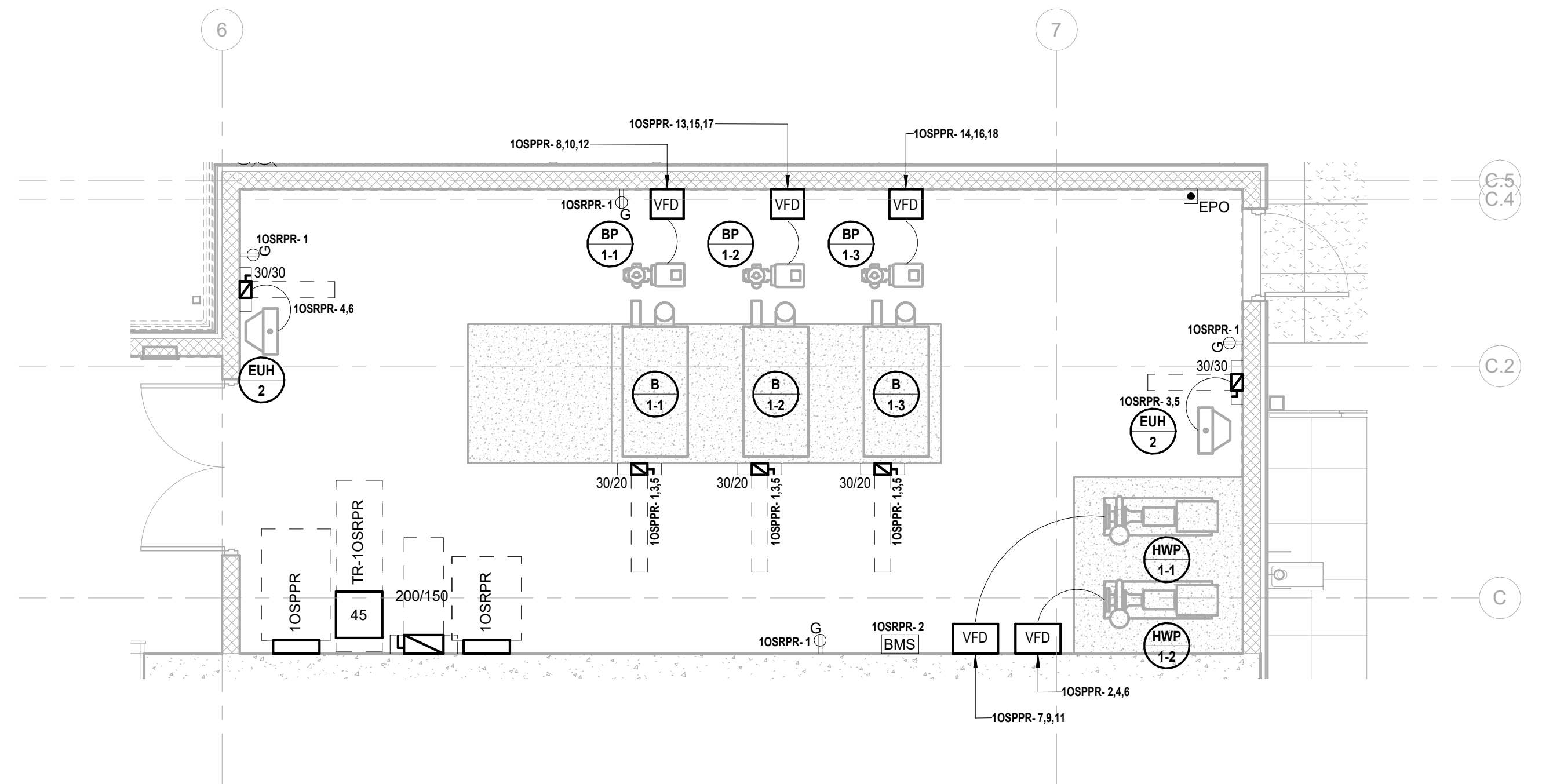
Sheet No:
E-116



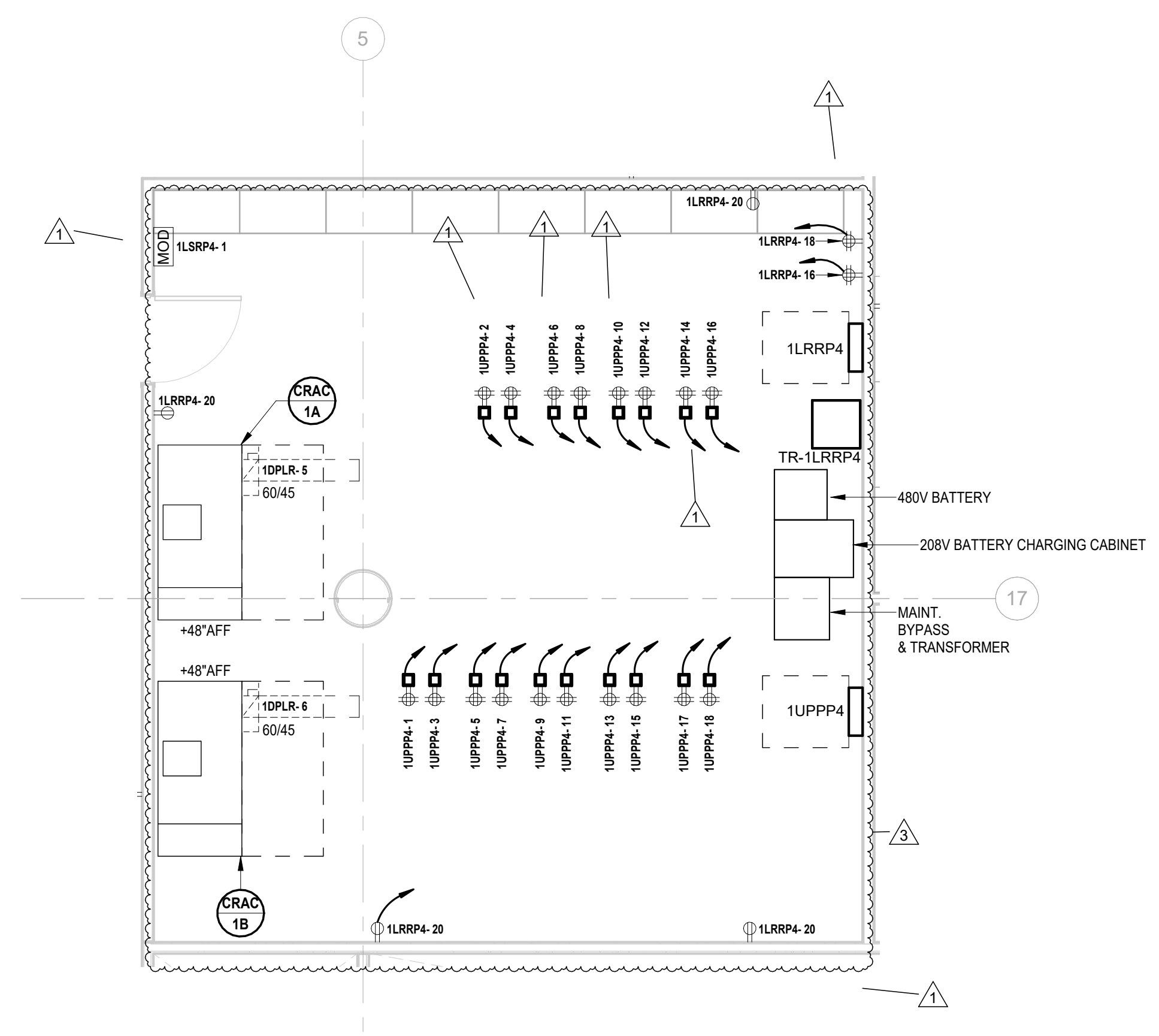
1 BUILDING NO.1 - LEVEL 5 - ELECTRICAL POWER PLAN E-302 SCALE: 1/4" = 1'-0"



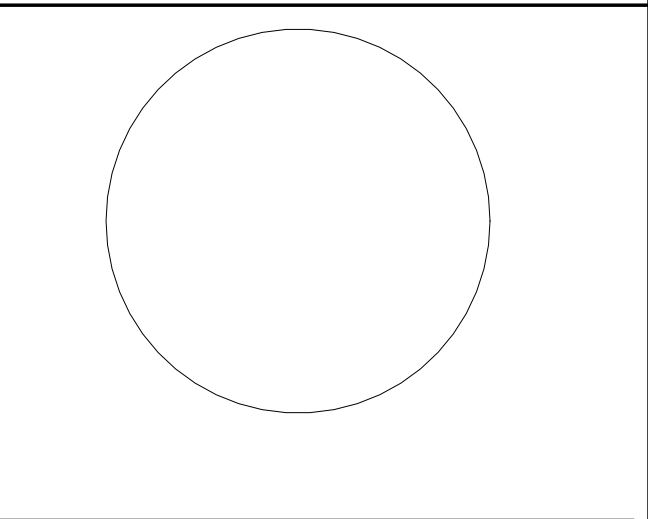
2 BUILDING NO.1 - ENLARGED EMERGENCY ELEC. RM 1602 E-302 SCALE: 1/4" = 1'-0"



3 BUILDING NO.1 - ENLARGED BOILER ROOM 1603 E-302 SCALE: 1/4" = 1'-0"

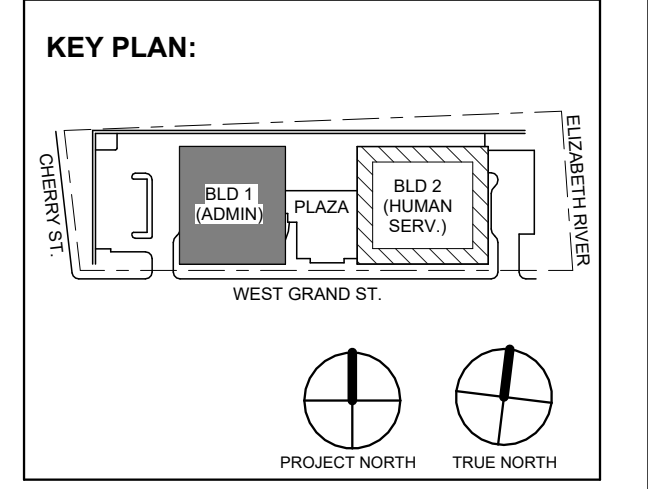


4 BUILDING NO.1 - LEVEL 4 - ELECTRICAL POWER PLAN - DATA CENTER 1442 E-302 SCALE: 1/4" = 1'-0"



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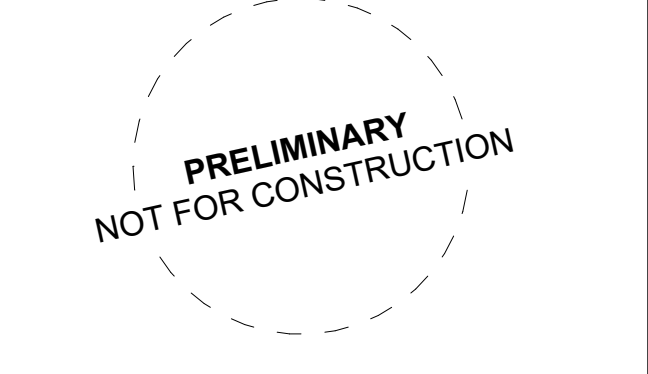
DESIGNED BY: J.J.L. DRAWN BY: J.J.L. CHECKED BY: S.G.S. REVIEWED BY: J.C.M. PROJECT No.: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revisions table with columns: No., Date, Description, Revisions / Issues. Includes entries for addendums and public bid.

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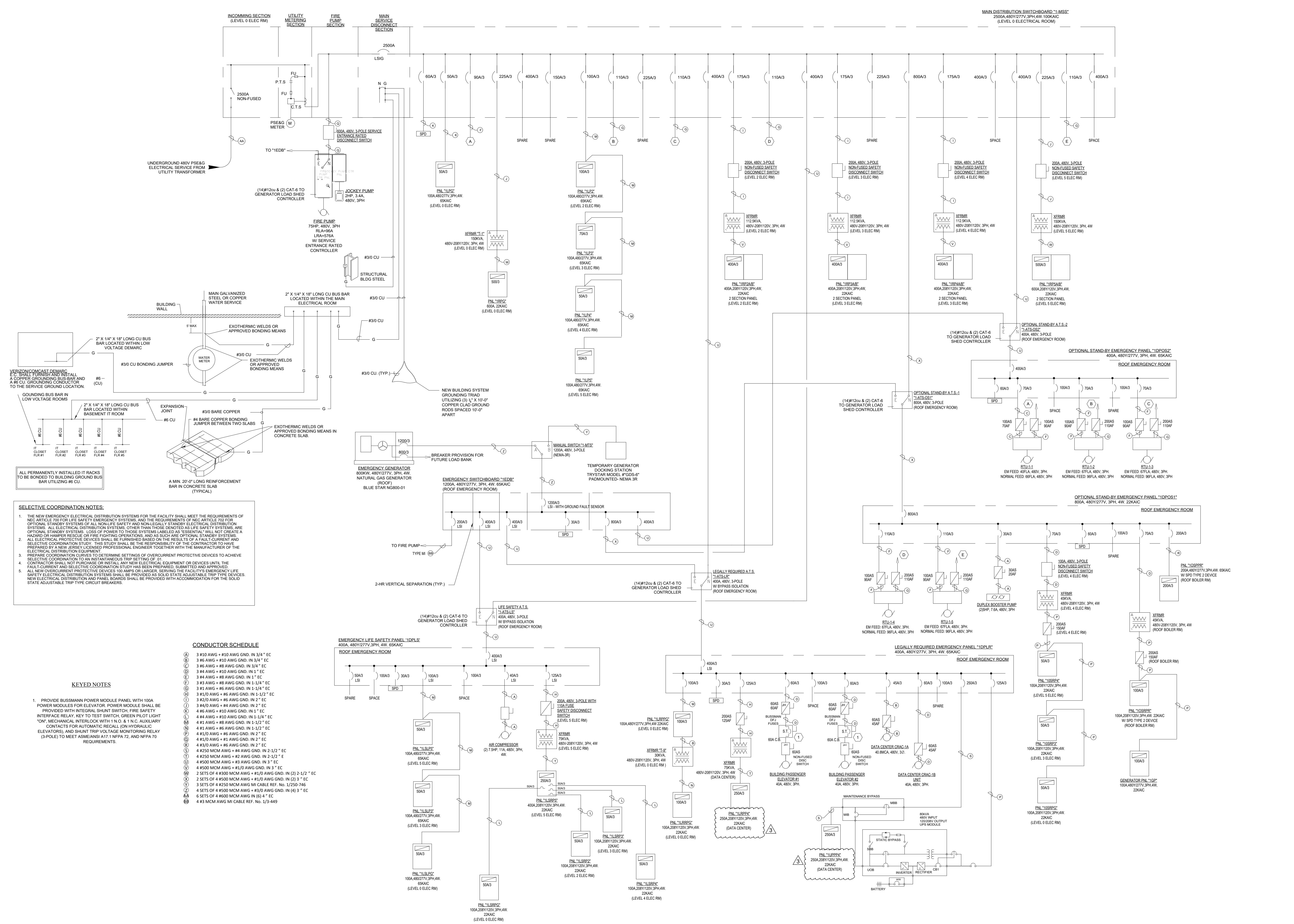
Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

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

Sheet Name: BUILDING NO. 1 - ELECTRICAL ENLARGED PLANS

Sheet No:

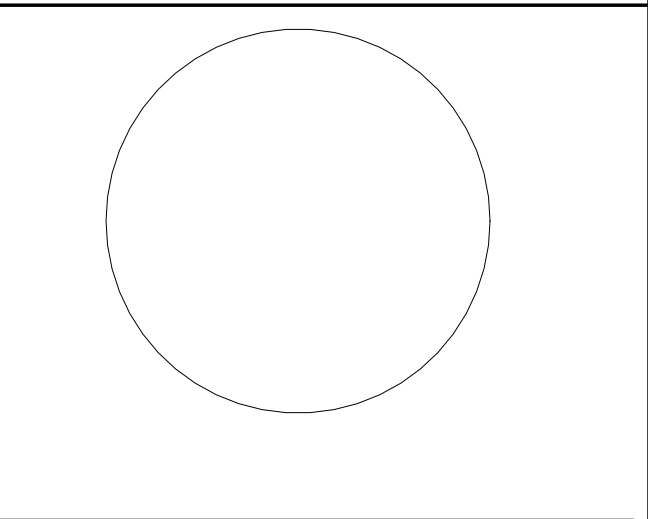
E-302



SELECTIVE COORDINATION NOTES: 1. THE NEW EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS FOR THE FACILITY SHALL MEET THE REQUIREMENTS OF THE ARTICLE 100 FOR LIFE SAFETY EMERGENCY SYSTEMS AND THE REQUIREMENTS OF THE ARTICLE 105 FOR NON-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 PULSED LIGHT 'ON', MECHANICAL INTERLOCK WITH N.C. & N.C. AUXILIARY CONTACTS FOR AUTOMATIC RECALL (ON HYDRAULIC ELEVATORS), AND SHUNT TRIP VOLTAGE MONITORING RELAY (3-POLE) TO MEET ASSESSMENT AT 1.1 NFPA 72 AND NFPA 70 REQUIREMENTS.

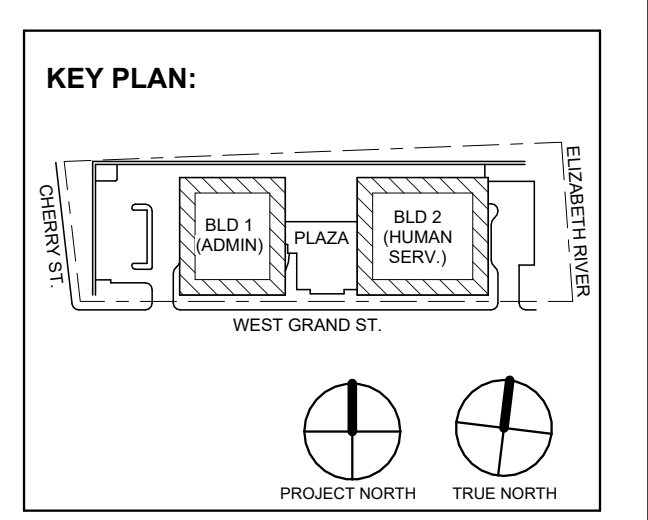
CONDUCTOR SCHEDULE: 1. 3 #10 AWG + #10 AWG GND. IN 3/4" EC 2. 3 #8 AWG + #10 AWG GND. IN 3/4" EC 3. 3 #6 AWG + #8 AWG GND. IN 3/4" EC 4. 3 #4 AWG + #10 AWG GND. IN 1" EC 5. 3 #4 AWG + #8 AWG GND. IN 1" EC 6. 3 #3 AWG + #8 AWG GND. IN 1-1/4" EC 7. 3 #1 AWG + #6 AWG GND. IN 1-1/4" EC 8. 3 #1/2 AWG + #6 AWG GND. IN 1-1/2" EC 9. 3 #1/2 AWG + #4 AWG GND. IN 2" EC 10. 4 #4 AWG + #10 AWG GND. IN 1-1/4" EC 11. 4 #4 AWG + #8 AWG GND. IN 1-1/4" EC 12. 4 #1 AWG + #6 AWG GND. IN 1" EC 13. 4 #1/2 AWG + #4 AWG GND. IN 2" EC 14. 4 #1/2 AWG + #2 AWG GND. IN 2" EC 15. 4 #3/4 AWG + #6 AWG GND. IN 2" EC 16. 4 #3/4 AWG + #4 AWG GND. IN 2-1/2" EC 17. 4 #3/4 AWG + #2 AWG GND. IN 2-1/2" EC 18. 4 #3/4 AWG + #1 AWG GND. IN 3" EC 19. 4 #1/2 AWG + #4 AWG GND. IN 2" EC 20. 4 #1/2 AWG + #2 AWG GND. IN 2" EC 21. 4 #1/2 AWG + #1 AWG GND. IN 2-1/2" EC 22. 4 #1/2 AWG + #1 AWG GND. IN 3" EC 23. 4 #1/2 AWG + #1 AWG GND. IN 4" EC 24. 4 #1 MCM AWG MI CABLE REF. NO. 1/3-449



JOHN CHRIS MORRIS III, P.E. ALTERNATE PROFESSIONAL DESIGNER IN ELECTRICAL ENGINEERING

DESIGNED BY: J.J.L. DRAWN BY: S.G.S. CHECKED BY: J.C.M. REVIEWED BY:

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



Revisions / Issues table with columns for No., Date, and 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/VPC Checked By: JM/SH

BUILDING NO. 1 - ELECTRICAL SINGLE LINE DIAGRAM

Sheet No:

E-401

Distribution Panel: 1-MSS

Table with 10 columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size (H,N,G), Conduit Size, Load, Remarks. Includes specifications for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, and MCB Rating.

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

Notes section for Distribution Panel: 1-MSS.

Branch Panel: 1LPG

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 specifications for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, and MCB Rating.

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories for Motor and Lighting.

Notes section for Branch Panel: 1LPG.

Branch Panel: 1RPG

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 specifications for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, and MCB Rating.

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

Notes section for Branch Panel: 1RPG.

Branch Panel: 1LSLPG

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 specifications for Location, Supply From, Mounting, Enclosure, Volts, Phases, Wires, A.I.C. Rating, Mains Type, Mains Rating, and MCB Rating.

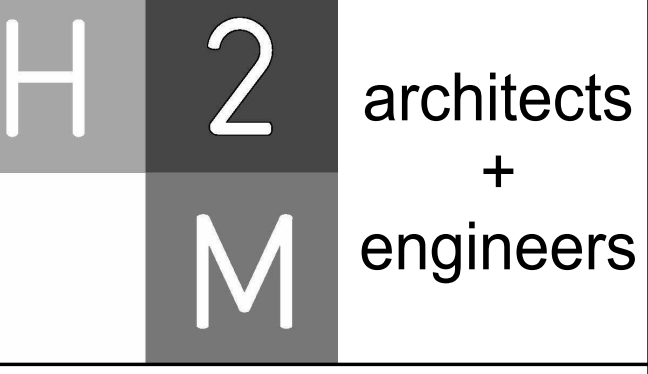
Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Includes categories for Other and Lighting.

Notes section for Branch Panel: 1LSLPG.

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, (O) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL 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. 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.



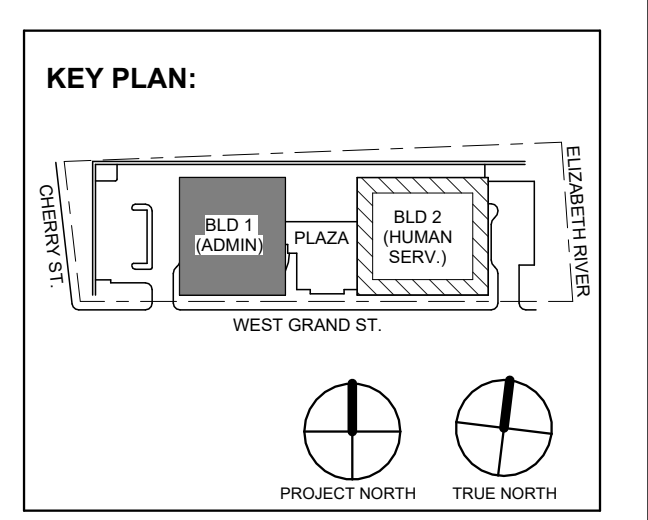
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UNION COUNTY IMPROVEMENT AUTHORITY
Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202



3 12.15.2023 Addendum No. 03
2 12.08.2023 Addendum No. 02
1 12.01.2023 Addendum No. 01
11.08.2023 For Public Bid
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
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2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3000

Jeffrey D. Venezia, AIA
NJ RA #A 00827100
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Client: UNION COUNTY IMPROVEMENT AUTHORITY

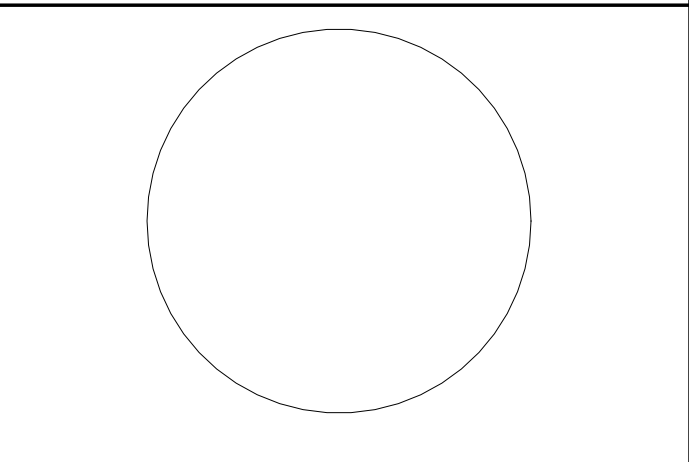
Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

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-502

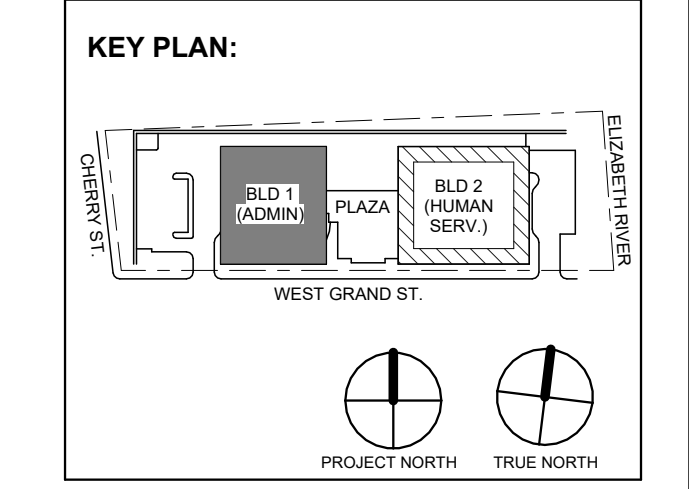
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PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for addendum No. 03 and 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-505

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... 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG...

- 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...

Branch Panel: 1RP3A. Location: ELEC 1303. Supply From: TR-1RP3. Mounting: Surface. Enclosure: NEMA 1. Vols: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22kA. Mains Type: MLO. Mains Rating: 400 A. MCB Rating: 400 A. Feed Through Lugs: Yes. Table with 41 rows of circuit data.

Branch Panel: 1LP3. Location: ELEC 1303. Supply From: 1-MSS. Mounting: Surface. Enclosure: NEMA 1. Vols: 480/277 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 65kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Feed Through Lugs: No. Table with 30 rows of circuit data.

Branch Panel: 1LSLP3. Location: ELEC 1303. Supply From: 1DPLS. Mounting: Surface. Enclosure: NEMA 1. Vols: 480/277 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 65kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Feed Through Lugs: No. Table with 29 rows of circuit data.

Branch Panel: 1RP3B. Location: ELEC 1303. Supply From: 1RP3A. Mounting: Surface. Enclosure: NEMA 1. Vols: 120/208 Wye. Phases: 3. Wires: 4. A.I.C. Rating: 22kA. Mains Type: MLO. Mains Rating: 400 A. Feed Through Lugs: No. Table with 42 rows of circuit data.

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. ETC TO COORDINATE PANEL SHORT CIRCUIT RATING WITH AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY TRANSFORMER. 8. INSTALL NO MORE THAN THE EQUIVALENT OF (5) 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:

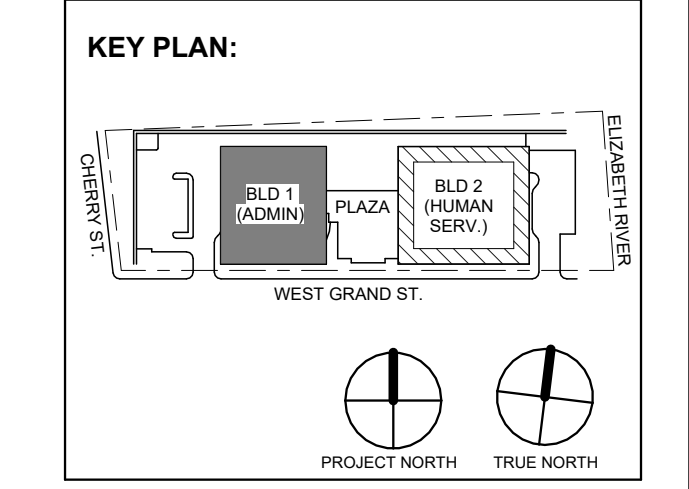
- 1. PROVIDE (3) PHASE CONDUCTORS, (2) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 1LSRP3. Location: ELEC 1303. Supply From: TR-10SRP. Mounting: Surface. Enclosure: NEMA 1. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Phases: 3. Wires: 4. Feed Through Lugs: No. 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: 10SRP3. Location: ELEC 1303. Supply From: TR-10SRP. Mounting: Surface. Enclosure: NEMA 1. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Phases: 3. Wires: 4. Feed Through Lugs: No. 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: 1LP4. Location: ELEVATOR LOBBY 1401. Supply From: 1-MISS. Mounting: Surface. Enclosure: NEMA 1. A.I.C. Rating: 65kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Phases: 3. Wires: 4. Feed Through Lugs: No. 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: 1RP4A. Location: ELEVATOR LOBBY 1401. Supply From: TR-1RP4. Mounting: Surface. Enclosure: NEMA 1. A.I.C. Rating: 22kA. Mains Type: MLO. Mains Rating: 400 A. MCB Rating: 400 A. Phases: 3. Wires: 4. Feed Through Lugs: Yes. 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.



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... 3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG...

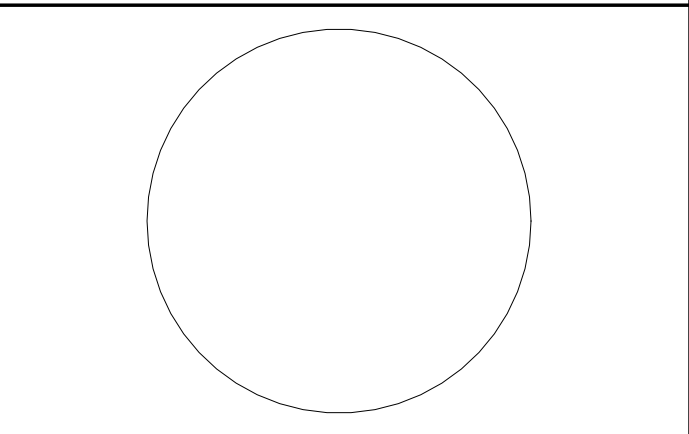
- PANEL SCHEDULE KEYED NOTES: 1. PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED...

Branch Panel: 1RP4B Location: ELEVATOR LOBBY 1401 Supply From: 1RP4A 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 notes.

Branch Panel: 1LSRP4 Location: ELEVATOR LOBBY 1401 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 notes.

Branch Panel: 1OSRP4 Location: ELEVATOR LOBBY 1401 Supply From: TR-1OSRP 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 notes.

Branch Panel: 1LP5 Location: ELEC 1503 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 notes.

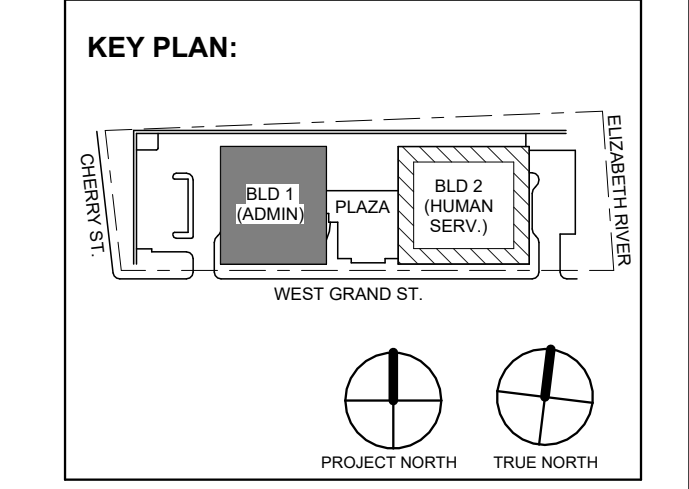


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DESIGNED BY: JUL DRAWN BY: JJJ CHECKED BY: SGS REVIEWED BY: JCM

PROJECT No: DIGA2301 DATE: 11/08/2023 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: JM/SH

BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No:

E-507

Branch Panel: 1RP5A

Table for Branch Panel 1RP5A with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT. Includes load classification and demand factor summary.

Branch Panel: 1RP5B

Table for Branch Panel 1RP5B with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT. Includes load classification and demand factor summary.

Branch Panel: 1LSLP5

Table for Branch Panel 1LSLP5 with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT. Includes load classification and demand factor summary.

Branch Panel: 1LSRP5

Table for Branch Panel 1LSRP5 with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size, Poles, Trip, Circuit Description, CKT. Includes load classification and demand factor summary.

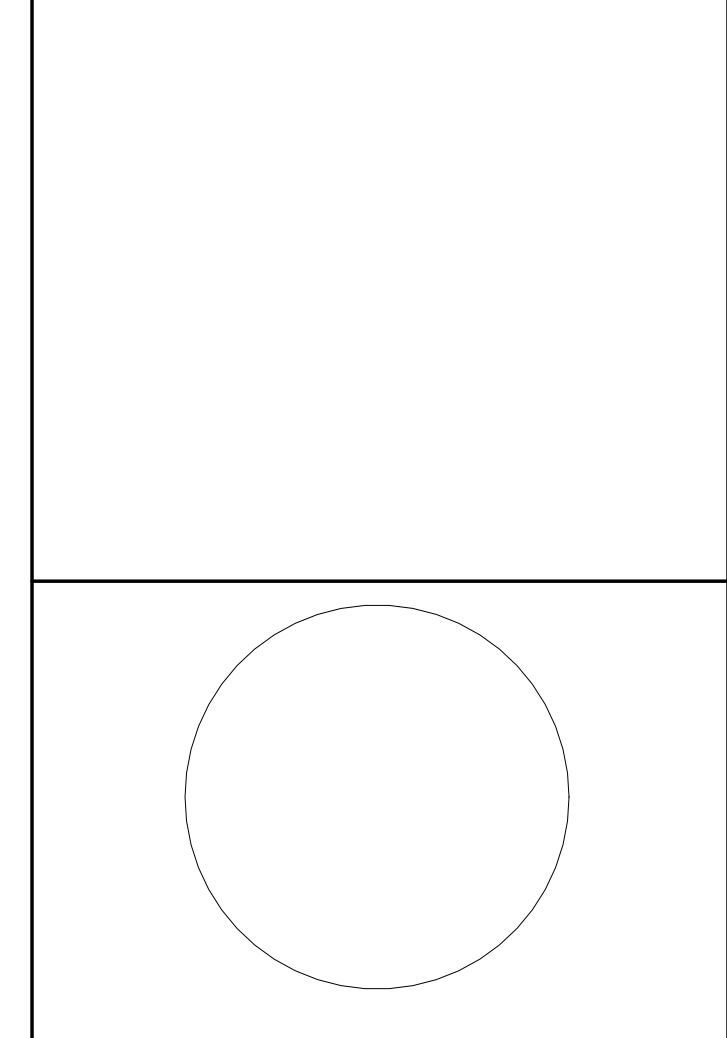
PANEL SCHEDULE NOTES:

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

- PANEL SCHEDULE KEYED NOTES: (1) PROVIDE (3) PHASE CONDUCTORS, (2) NEUTRAL CONDUCTORS, (3) GROUND CONDUCTOR & (4) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED, etc.



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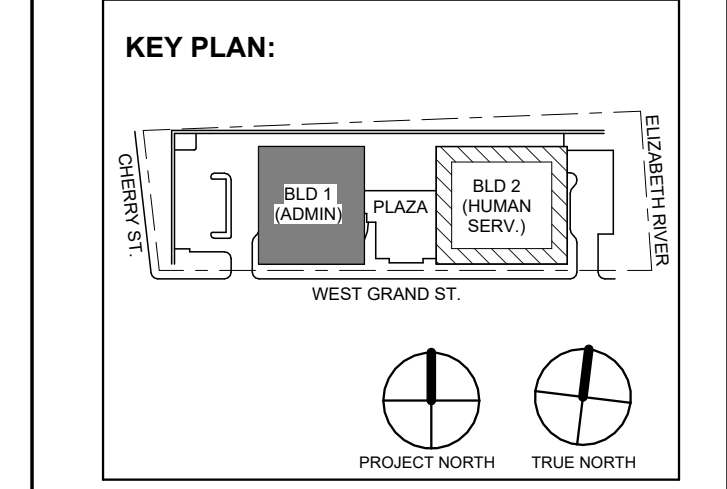
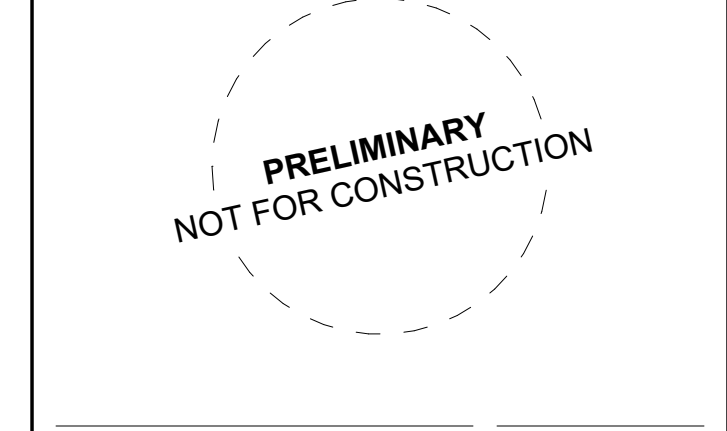


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Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No: E-508

Branch Panel: 1UPPP4

Location: DATA CENTER 1442

Volts: 120/208 Wye

A.I.C. Rating: 42kA

Supply From: Surface

Phases: 3

Mains Type: MCB

Mounting: Surface

Wires: 4

Mains Rating: 250 A

Enclosure: NEMA 1

Feed Through Lugs:

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. Rows 1-42.

Total Load: 7200 VA, 7200 VA, 7200 VA, 60 A, 60 A, 60 A

Load Classification table with columns: Connected Load, Demand Factor, Estimated Demand, Panel Totals. Rows: Receptacle, Total Conn. Load, Total Est. Demand.

Notes:

Distribution Panel: 1EDB

Location: EMERGENCY ELEC. ROOM 1602

Volts: 480/277 Wye

A.I.C. Rating: 65kA

Supply From: Surface

Phases: 3

Mains Type: MCB

Mounting: Surface

Wires: 4

Mains Rating: 1200 A

Enclosure: NEMA 1

MCB Rating: 1200 A

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size (H,N,G), Conduit Size, Load, Remarks. Rows 1-10.

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

Notes:

Distribution Panel: 1DPLR

Location: EMERGENCY ELEC. ROOM 1602

Volts: 480/277 Wye

A.I.C. Rating: 65kA

Supply From: 1-ATS-LR

Phases: 3

Mains Type: MCB

Mounting: Surface

Wires: 4

Mains Rating: 400 A

Enclosure: NEMA 1

MCB Rating: 400 A

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size (H,N,G), Conduit Size, Load, Remarks. Rows 1-10.

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

Notes:

Distribution Panel: 1DPLS

Location: EMERGENCY ELEC. ROOM 1602

Volts: 480/277 Wye

A.I.C. Rating: 65kA

Supply From: 1-ATS-LR

Phases: 3

Mains Type: MCB

Mounting: Surface

Wires: 4

Mains Rating: 400 A

Enclosure: NEMA 1

MCB Rating: 400 A

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size (H,N,G), Conduit Size, Load, Remarks. Rows 1-25.

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

Notes:

Distribution Panel: 1DPOS1

Location: EMERGENCY ELEC. ROOM 1602

Volts: 480/277 Wye

A.I.C. Rating: 65kA

Supply From: 1-ATS-OS1

Phases: 3

Mains Type: MCB

Mounting: Surface

Wires: 4

Mains Rating: 800 A

Enclosure: NEMA 1

MCB Rating: 800 A

Table with columns: CKT, Circuit Description, # of Poles, Trip Rating, Wire Size (H,N,G), Conduit Size, Load, Remarks. Rows 1-10.

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

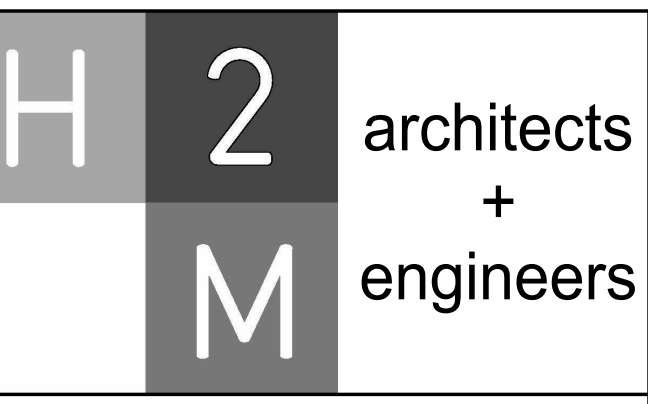
Notes:

PANEL SCHEDULE NOTES:

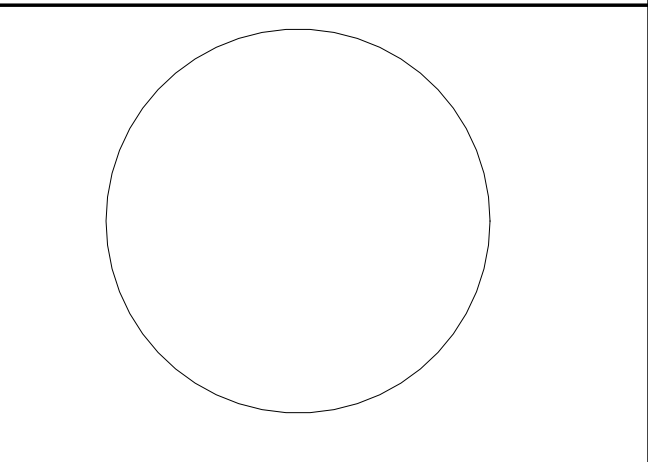
- 1. CIRCUITS DESIGNATIONS ARE TAGGED AS FOLLOWS: (G) = GFI CIRCUIT BREAKER, (L) = LOCK-ON DEVICE, (T) = CIRCUIT CONTROLLED THROUGH TIMECLOCK AND PHOTOCELL, EXAMPLE: *POWER OUTLET (G) (L) *REQUIRES A GFI CIRCUIT BREAKER WITH A LOCK-ON DEVICE. 2. ROOFTOP UNIT CIRCUIT BREAKERS SHALL BE HACR RATED. 3. WIRE 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 (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.

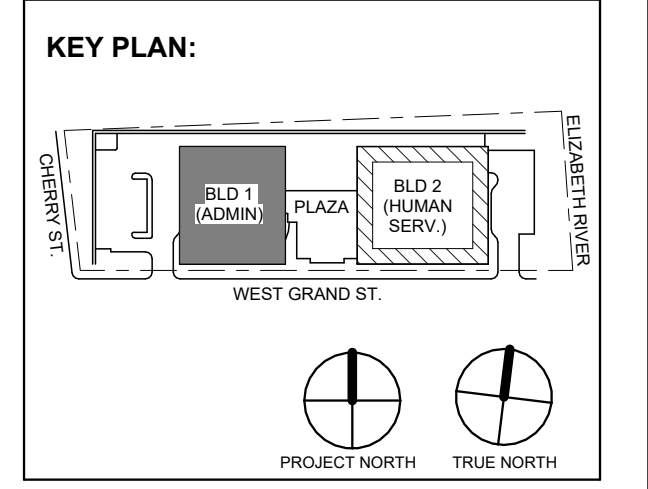


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JOHN CHRIS MORRIS III, P.E. LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

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



Revision table with columns: No., Date, Description, Revisions / Issues. Rows 1-3.

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Jeffrey D. Venezia, AIA NJ RA #A 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: JMSH

Sheet Name: BUILDING NO. 1 - ELECTRICAL SCHEDULES

Sheet No: E-509

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. TANDEN AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

PANEL SCHEDULE KEYED NOTES:

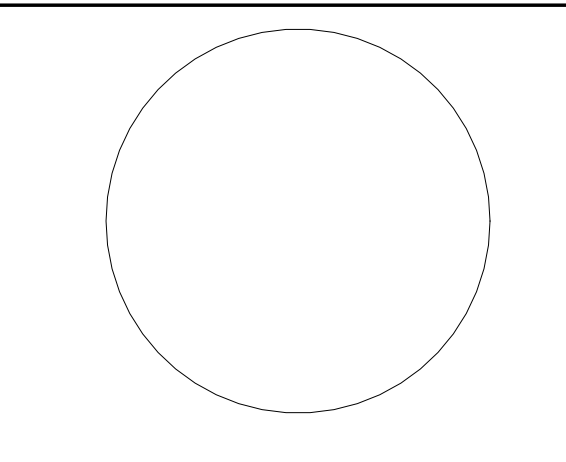
- (1) PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 2LSRPG. Location: ELECTRICAL 2003. Supply From: 2LSRPG. Mounting: Surface. Enclosure: NEMA 1. 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 Load Classification and Panel Totals.

Branch Panel: 2LRPPG. Location: ELECTRICAL 2003. Supply From: 2DPLR. Mounting: Surface. Enclosure: NEMA 1. A.I.C. Rating: 65kA. 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 Panel Totals.

Branch Panel: 2LRRPG. Location: ELECTRICAL 2003. Supply From: TR-2LRRPG. Mounting: Surface. Enclosure: NEMA 1. 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 Panel Totals.

Branch Panel: 2OSRPG. Location: ELECTRICAL 2003. Supply From: TR-OSRPG. Mounting: Surface. Enclosure: NEMA 1. 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 Load Classification and Panel Totals.



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

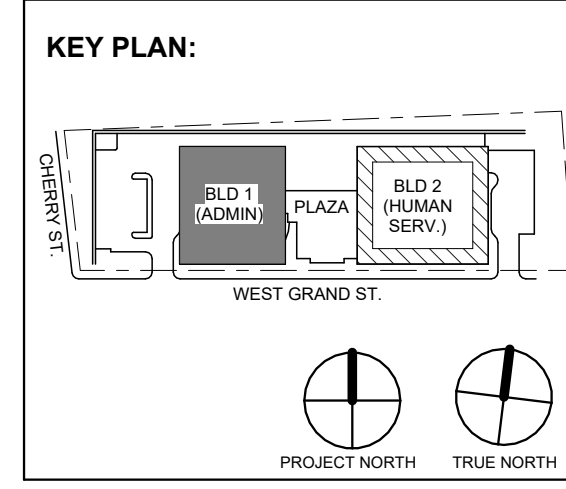


Table with columns: No., Date, Description, Revisions / Issues. Row 3: 12/15/2023, Addendum No. 03, 11/08/2023, For Public Bid.

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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. 2 - ELECTRICAL SCHEDULES

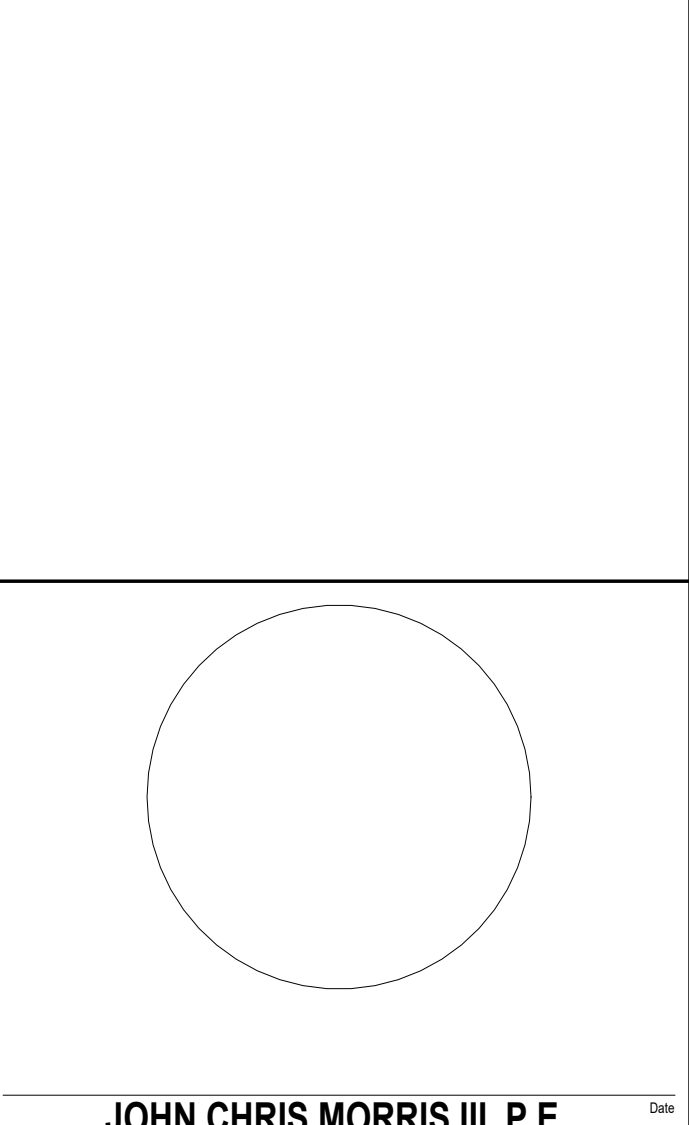
Sheet No: E-512

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
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.

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NJ Landscape Architecture Certificate No.: 21MH00010300
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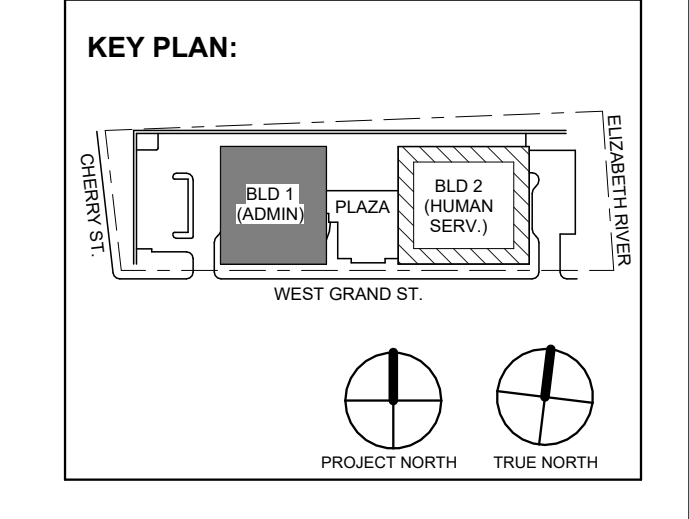
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PROJECT NO: DATE: SCALE:
DIGA2301 11/08/2023 AS SHOWN

Branch Panel: 2LP1
Location: ELEC 2103
Supply From: 2R1P1A
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: 2RP1A
Location: ELEC 2103
Supply From: TR-2RP1
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: 250 A
MCB Rating: 250 A

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: 250 A

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: MCB
Mains Rating: 100 A
MCB Rating: 60 A



Revisions / Issues table with columns for No., Date, 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/VPC
Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No:

Branch Panel: 2LP2

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 total demand summary.

Branch Panel: 2RP2A

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 total demand summary.

Branch Panel: 2RP2B

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 total demand summary.

Branch Panel: 2LSLP2

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 total demand summary.

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.

- 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.

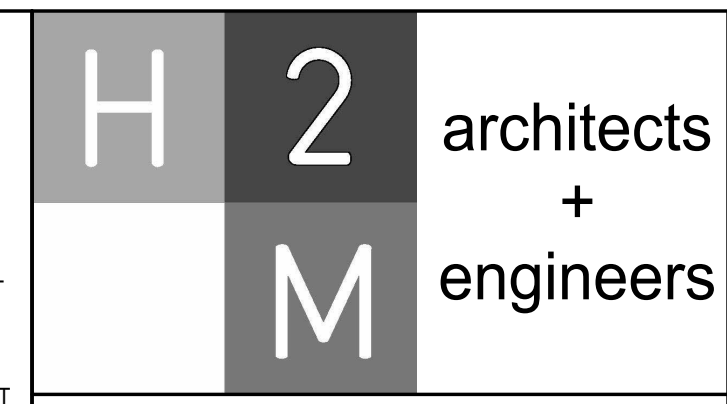
- 4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND. 5. ALL MATERIALS SHALL BE UL LABELED.

- 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.

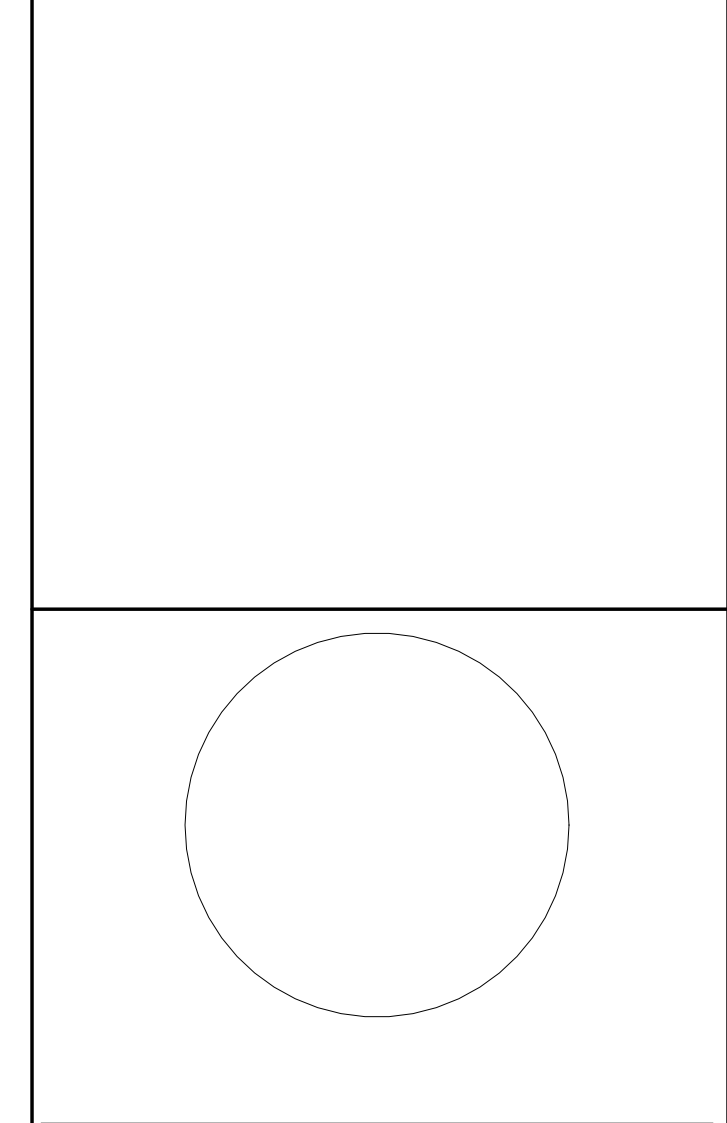
- 8. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS. 9. TANDEM AND HALF SPACE CIRCUIT BREAKER WILL NOT BE APPROVED.

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.



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

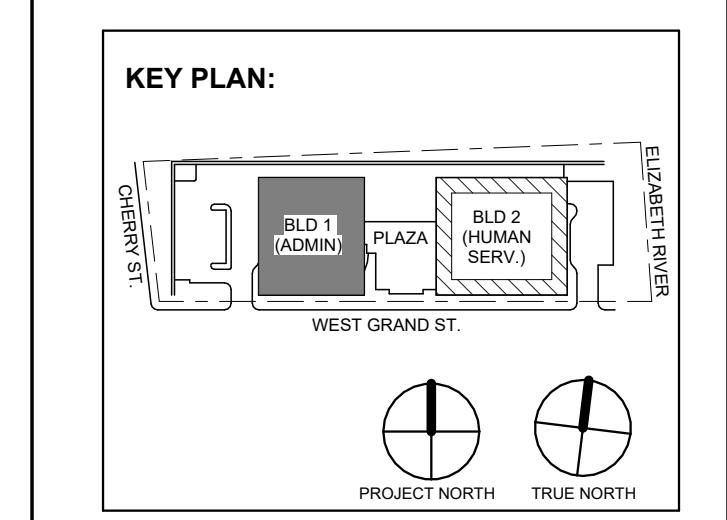
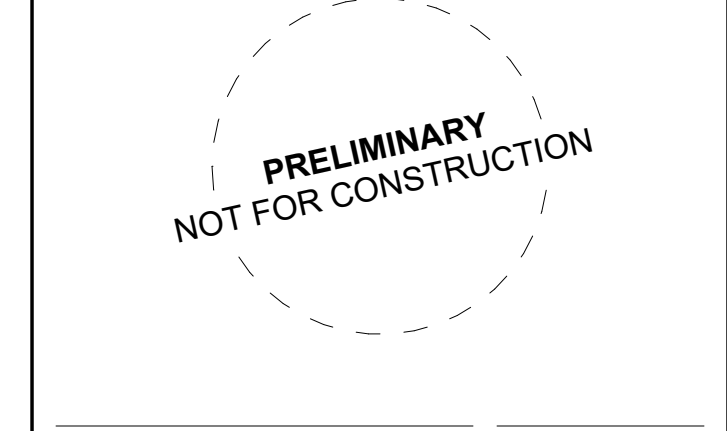


Table with columns: No., Date, Description, Revisions / Issues. Includes revision history.

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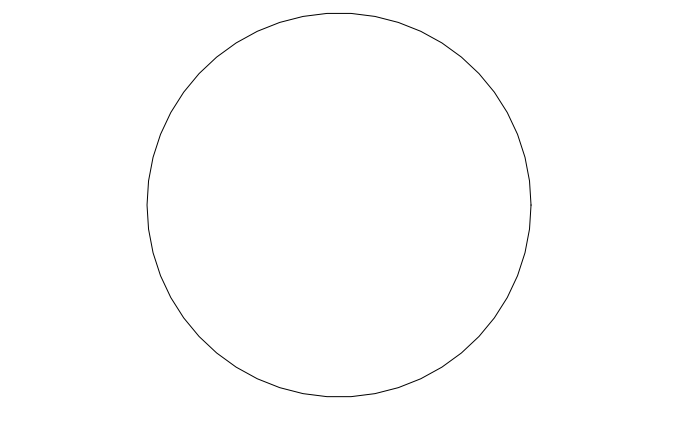
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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/PCP Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No.: E-514

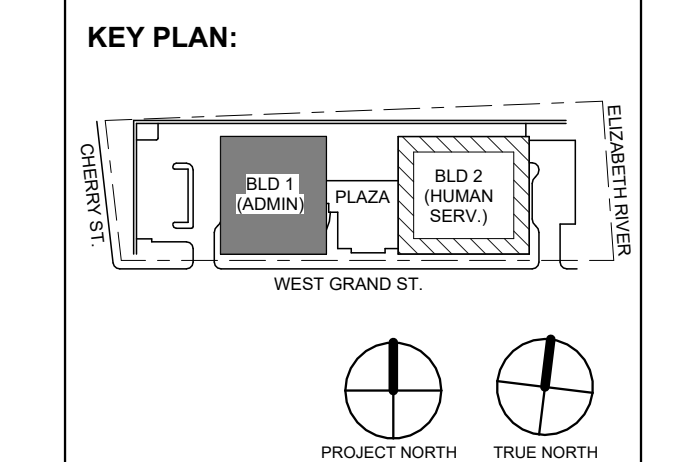


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DESIGNED BY: NJA DRAWN BY: NJA CHECKED BY: SGS REVIEWED BY: JCM

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



Revision table with columns: No., Date, Description, Revisions / Issues. Includes entries for Addendum No. 03, 01, and 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/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No: E-515

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 (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:

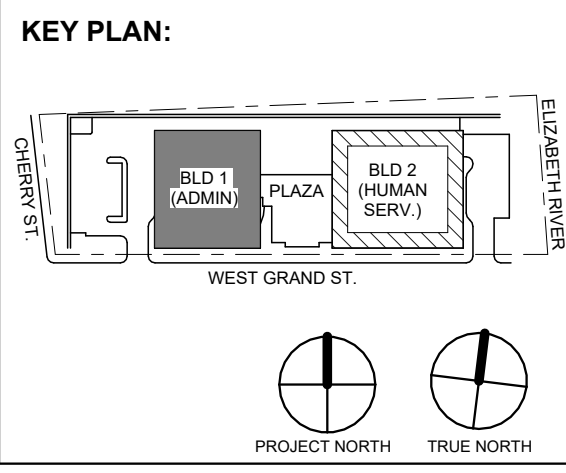
- (1) PROVIDE (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, (1) GROUND CONDUCTOR & (1) ISOLATED GROUND CONDUCTOR PER THE SIZE SHOWN FOR 3 PHASE FURNITURE FEED. COORDINATE FINAL POWER REQUIREMENTS WITH FURNITURE MANUFACTURER.

Branch Panel: 2LSRP2. Location: IT 2202. Supply From: 2LSRP2. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 100 A. Table with 30 rows of circuit descriptions and load classification summary.

Branch Panel: 2OSRP2. Location: IT 2202. Supply From: TR-OSRP. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Table with 30 rows of circuit descriptions and load classification summary.

Branch Panel: 2LP3. Location: ELEVATOR LOBBY 2301. Supply From: 2LMS3. A.I.C. Rating: 65kA. Mains Type: MCB. Mains Rating: 100 A. MCB Rating: 50 A. Table with 30 rows of circuit descriptions and load classification summary.

Branch Panel: 2RP3A. Location: ELEVATOR LOBBY 2301. Supply From: TR-2RP3. A.I.C. Rating: 22kA. Mains Type: MCB. Mains Rating: 250 A. MCB Rating: 250 A. Table with 30 rows of circuit descriptions and load classification summary.



Revision log table with columns: No., Date, Description, Revisions / Issues. Includes entries for 12/15/2023, 12/21/2023, and 11/08/2023.



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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/SJ

Sheet Name: BUILDING NO. 2 - ELECTRICAL SCHEDULES

Sheet No.: E-518

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. ETC TO COORDINATE PANEL SHORT CIRCUIT RATINGS 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: 2RP5B

Branch Panel: 2RP5B table. Includes location (ELEC 2503), supply (2RP5A), phases (3), wires (4), and feed through lugs. Main table with columns for circuit description, trip, poles, wire size, conduit size, and load (A, B, C). Includes load classification table at the bottom.

Branch Panel: 2LSLP5

Branch Panel: 2LSLP5 table. Includes location (ELEC 2503), supply (2DPLS), phases (3), wires (4), and feed through lugs. Main table with columns for circuit description, trip, poles, wire size, conduit size, and load (A, B, C). Includes load classification table at the bottom.

Branch Panel: 2LSRP5

Branch Panel: 2LSRP5 table. Includes location (ELEC 2503), supply (2LSRP5), phases (3), wires (4), and feed through lugs. Main table with columns for circuit description, trip, poles, wire size, conduit size, and load (A, B, C). Includes load classification table at the bottom.

Branch Panel: 2OSRP5

Branch Panel: 2OSRP5 table. Includes location (ELEC 2503), supply (TR-OSRP), phases (3), wires (4), and feed through lugs. Main table with columns for circuit description, trip, poles, wire size, conduit size, and load (A, B, C). Includes load classification table at the bottom.

Branch Panel: 2RP6B

Table for Branch Panel: 2RP6B. Includes location (ELEVATOR LOBBY 2601), supply (2RP6A), and a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, and CKT. Includes a load classification table and notes.

Branch Panel: 2RP6A

Table for Branch Panel: 2RP6A. Includes location (ELEVATOR LOBBY 2601), supply (TR-2RP6), and a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, and CKT. Includes a load classification table and notes.

Branch Panel: 2LP6

Table for Branch Panel: 2LP6. Includes location (ELEVATOR LOBBY 2601), supply (2-MSS), and a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, and CKT. Includes a load classification table and notes.

Branch Panel: 2LSRP6

Table for Branch Panel: 2LSRP6. Includes location (ELEVATOR LOBBY 2601), supply (TR-2LSRP), and a detailed circuit schedule table with columns for CKT, Circuit Description, Trip, Poles, Wire Size, Conduit Size, A, B, C, Conduit Size, Wire Size (H,N,G), Poles, Trip, Circuit Description, and CKT. Includes a load classification table and notes.

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.

H2M architects + engineers logo and contact information: 119 Cherry Hill Road, Suite 110, Parsippany, NJ 07054. 862.207.5900 www.h2m.com

JOHN CHRIS MORRIS III, P.E. Professional Engineer License No. 100000000. Includes a circular stamp and project information: PROJECT No. DIGA2301, DATE: 11/08/2023, SCALE: AS SHOWN.

KEY PLAN: A site plan showing the location of the building (BLD 2) and the panel location (BLD 2 - FURNITURE SERV.) relative to West Grand St. Includes a north arrow.

Revision table with columns for No., Date, Description, and Revisions / Issues. Includes entries for Addendum No. 03, 01, and 02.

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UNION COUNTY IMPROVEMENT AUTHORITY logo and project information: 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.

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Table with columns: CRG, JRM, SCALE, AS SHOWN. Includes project name and date.

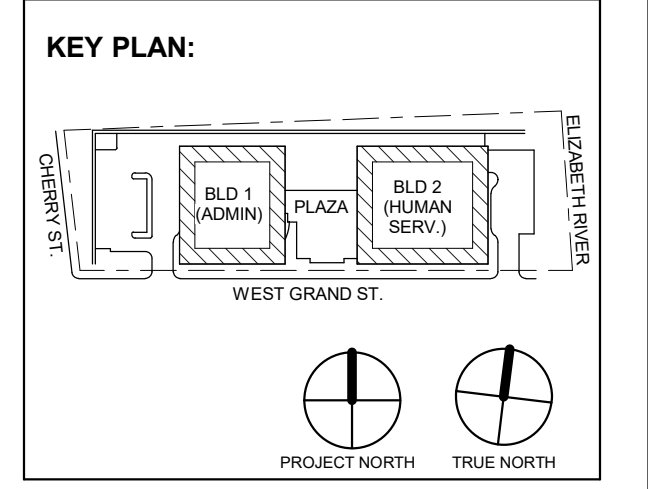


Table with columns: No., Date, Description, Revisions / Issues. Includes revision history.

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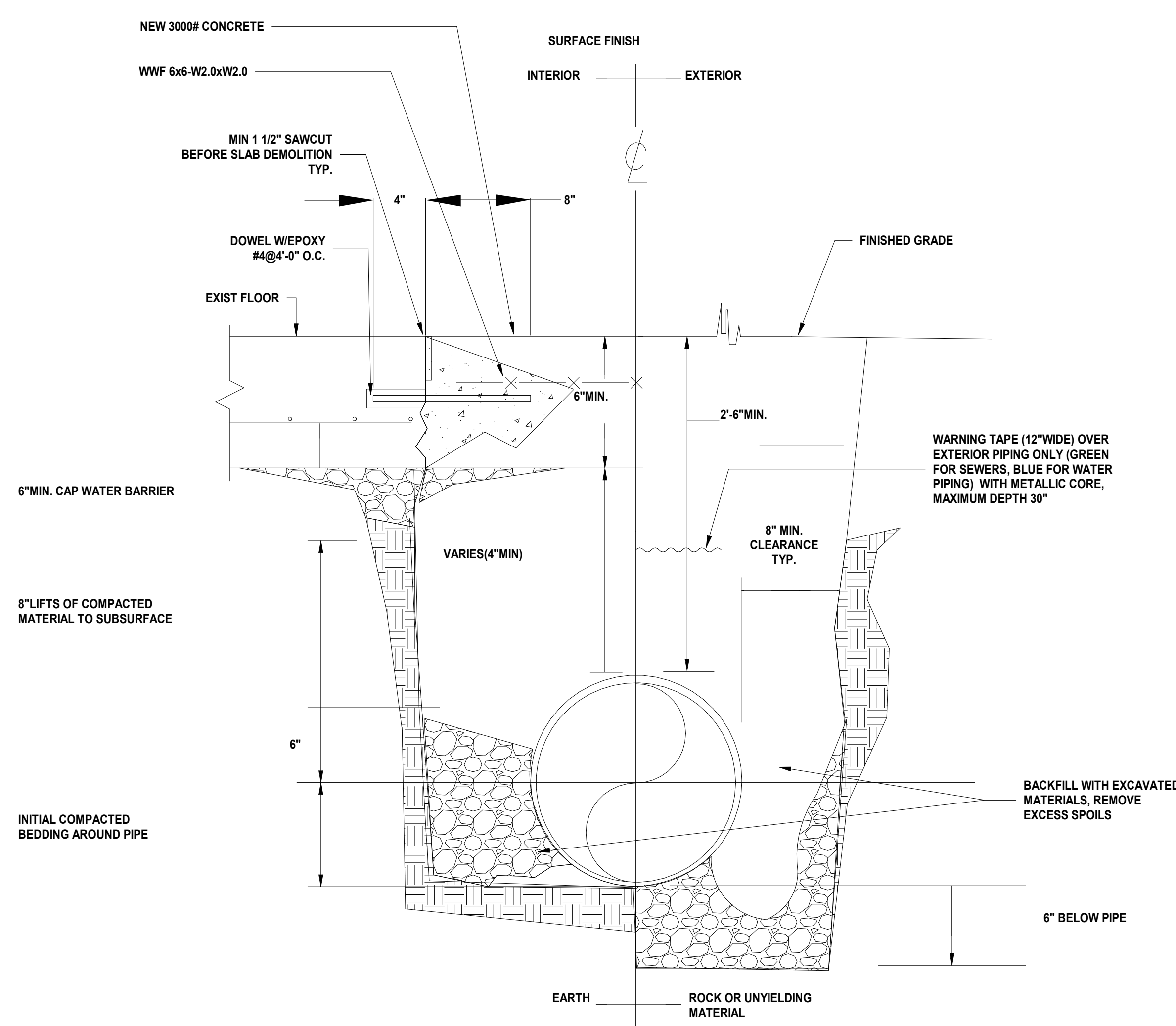
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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

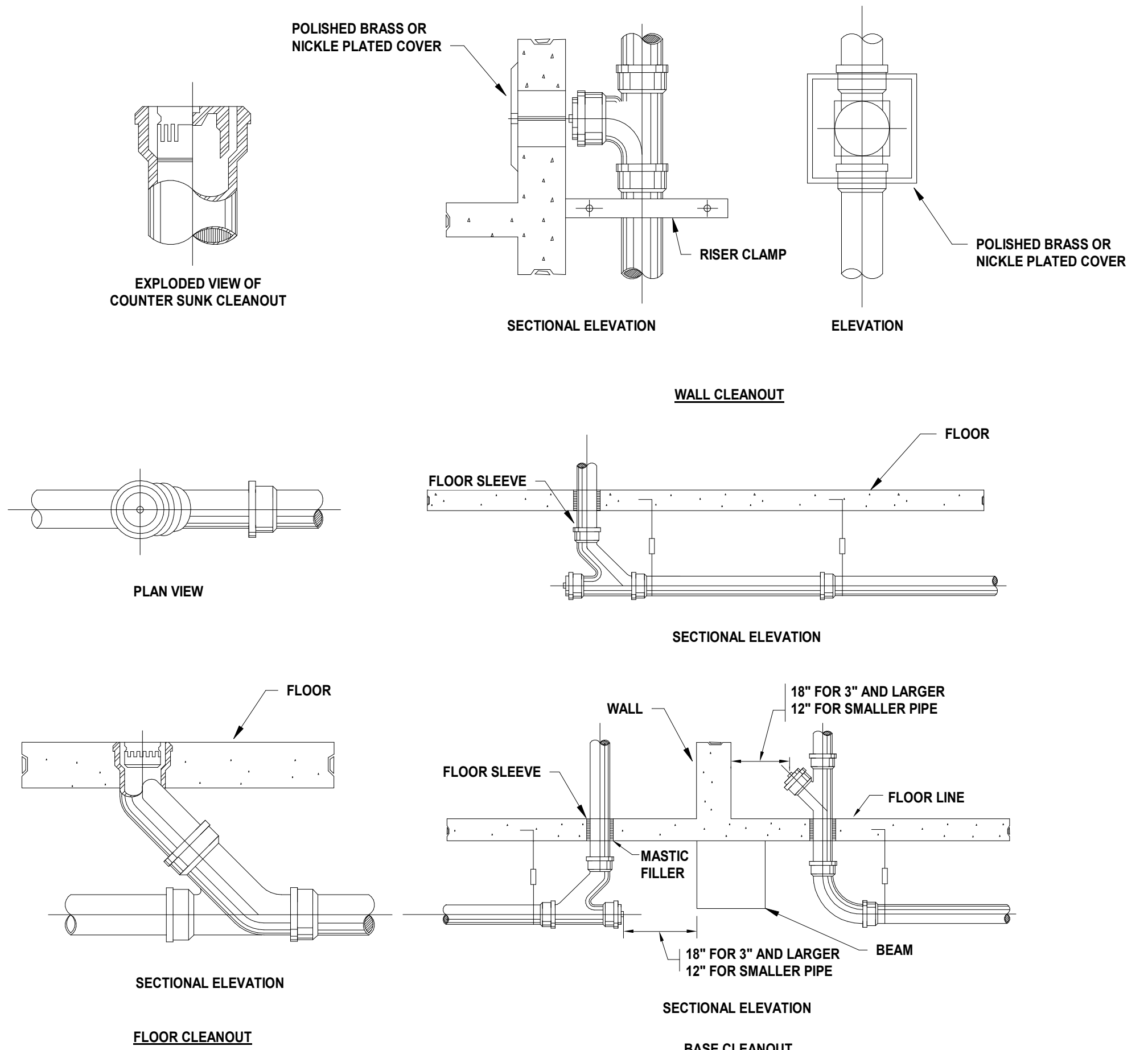
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: PLUMBING DETAILS

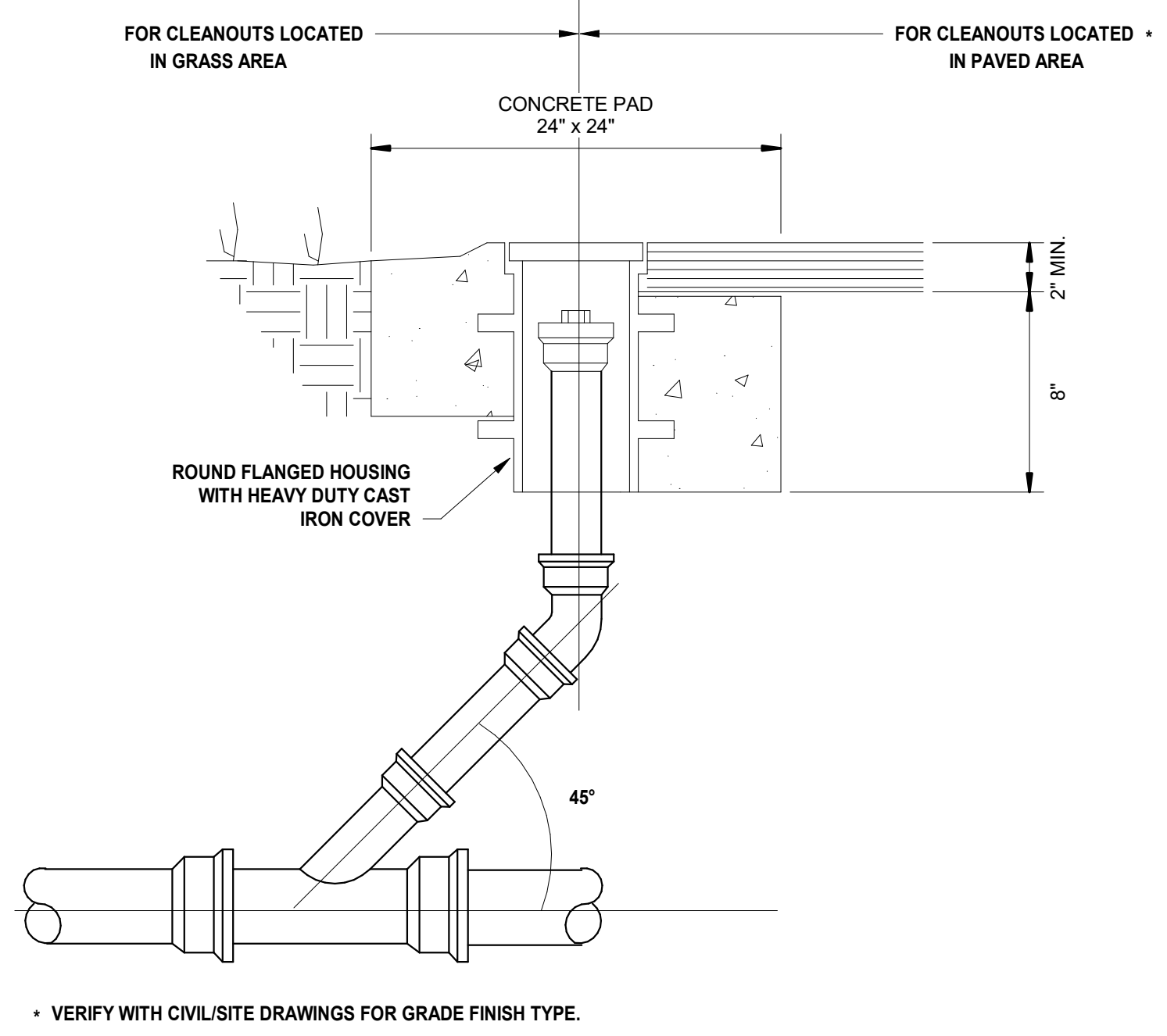
Sheet No: P-002



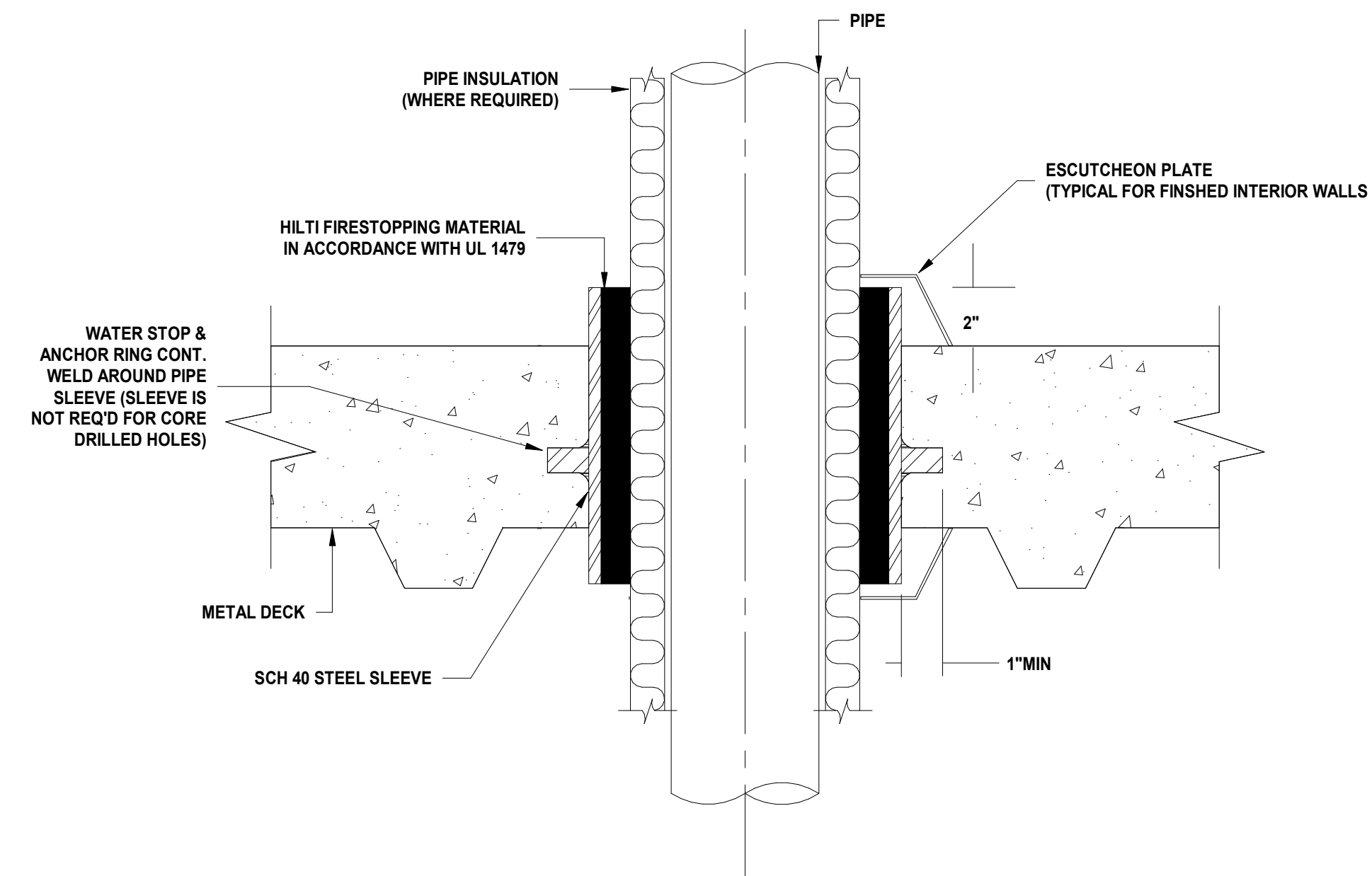
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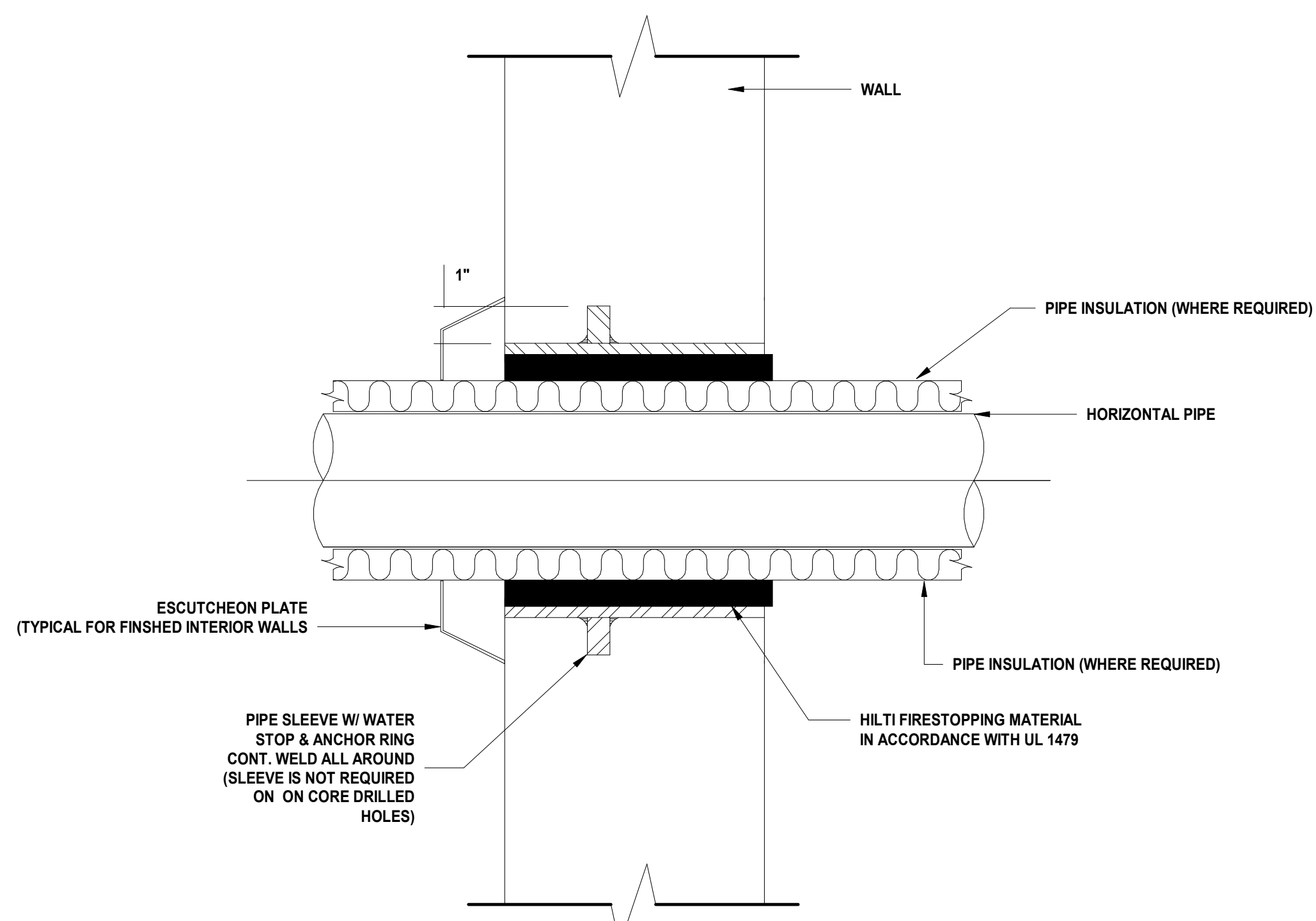
2 FLOOR, WALL AND BASE CLEAN-OUT SCALE: N.T.S.



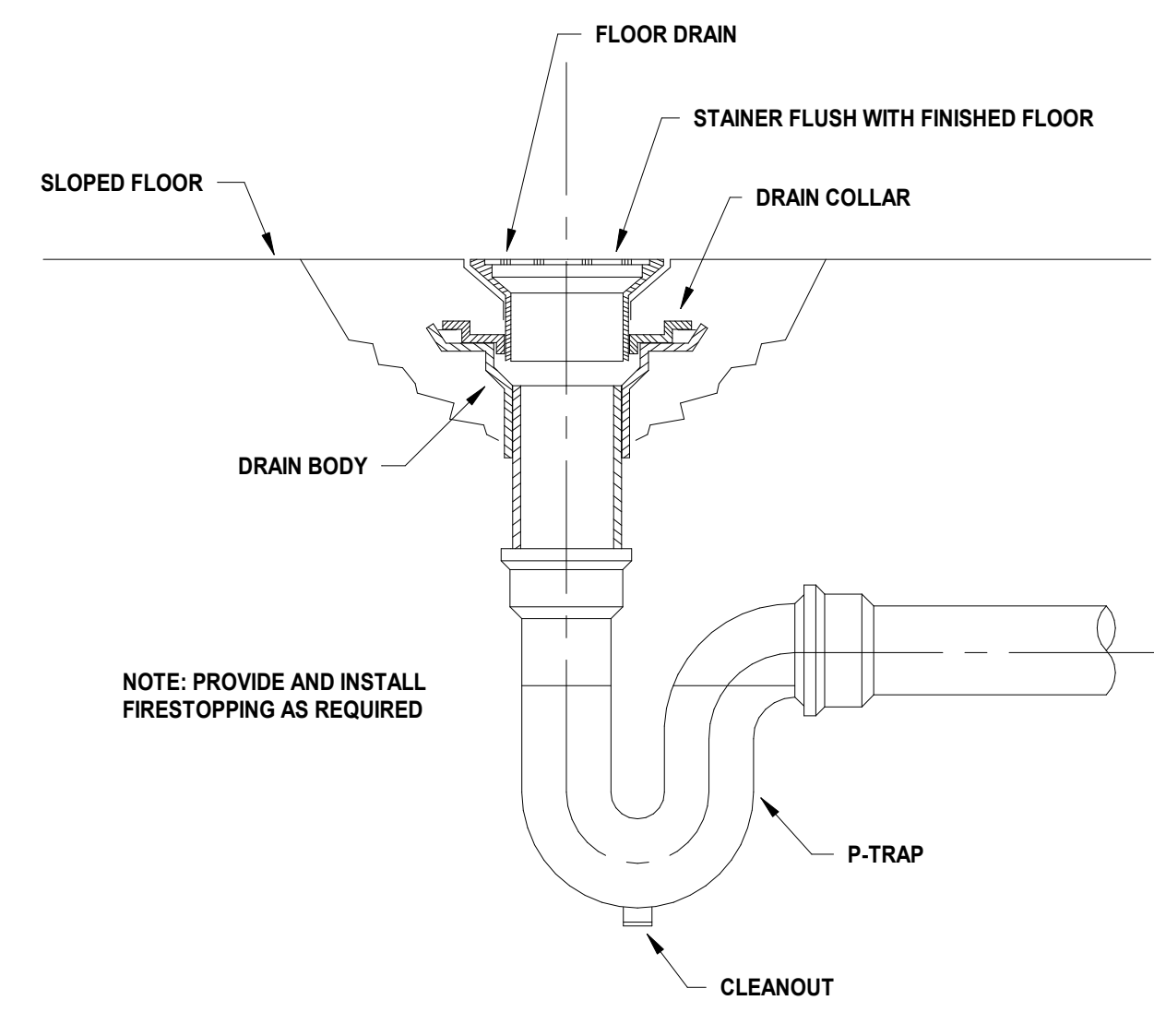
3 CLEANOUT AT GRADE DETAIL SCALE: N.T.S.



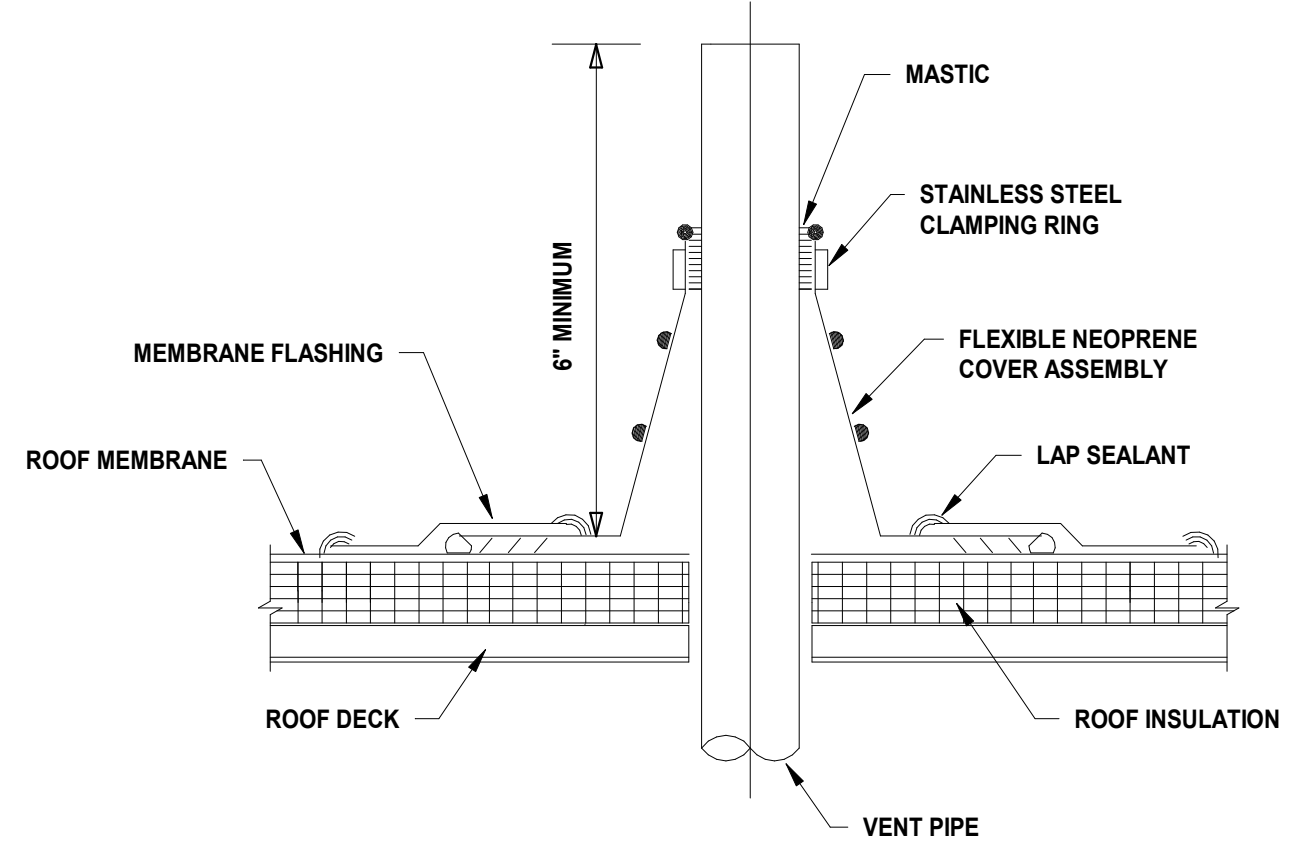
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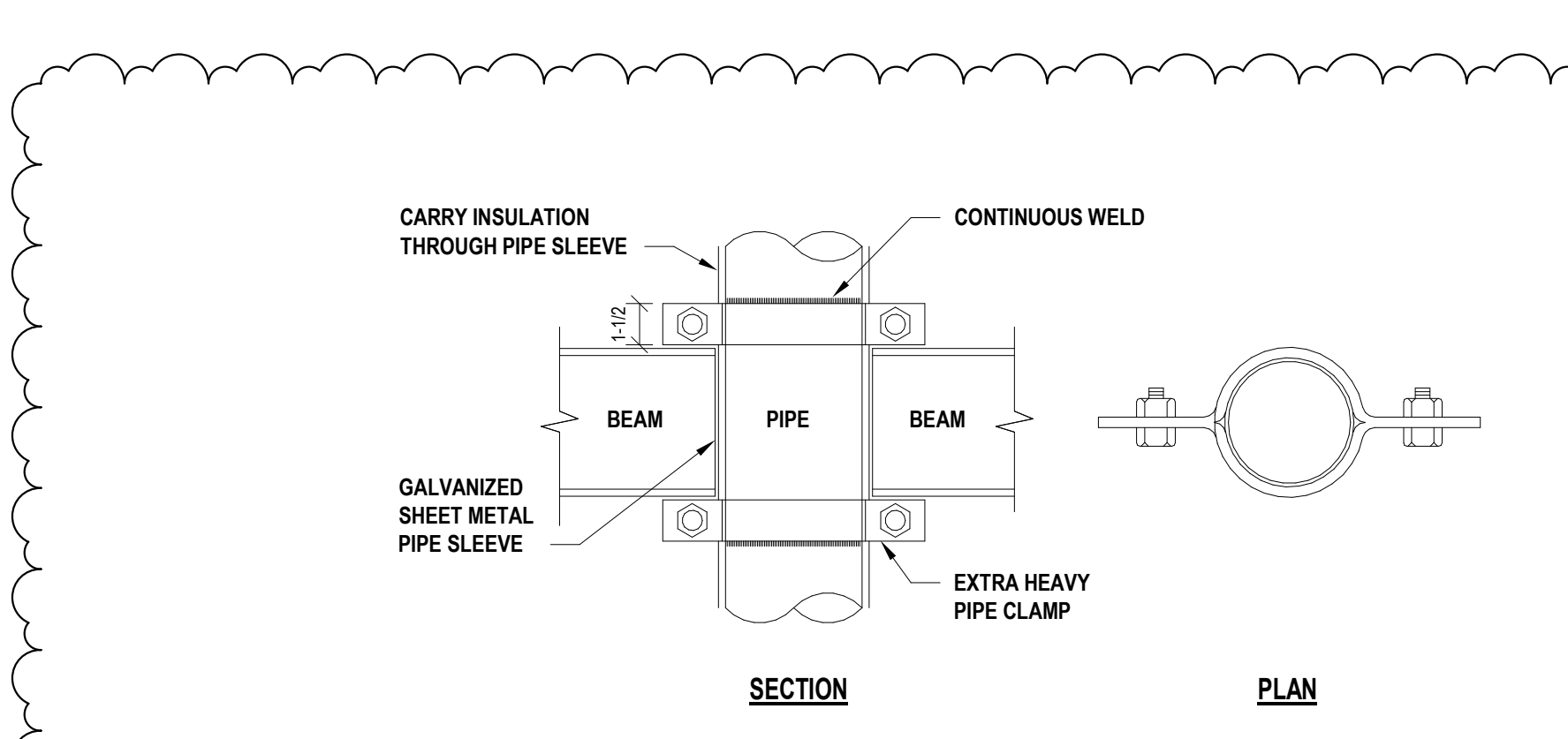
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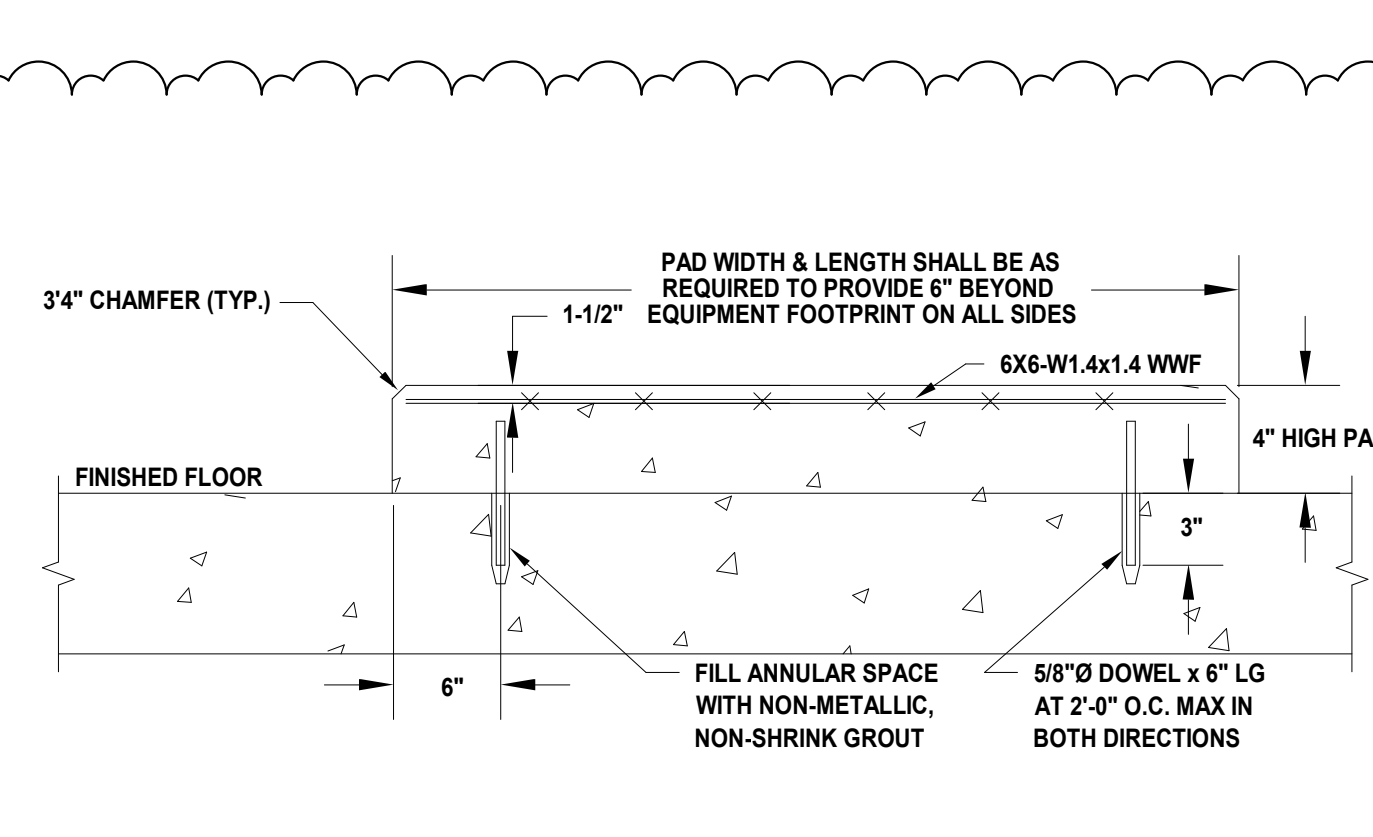
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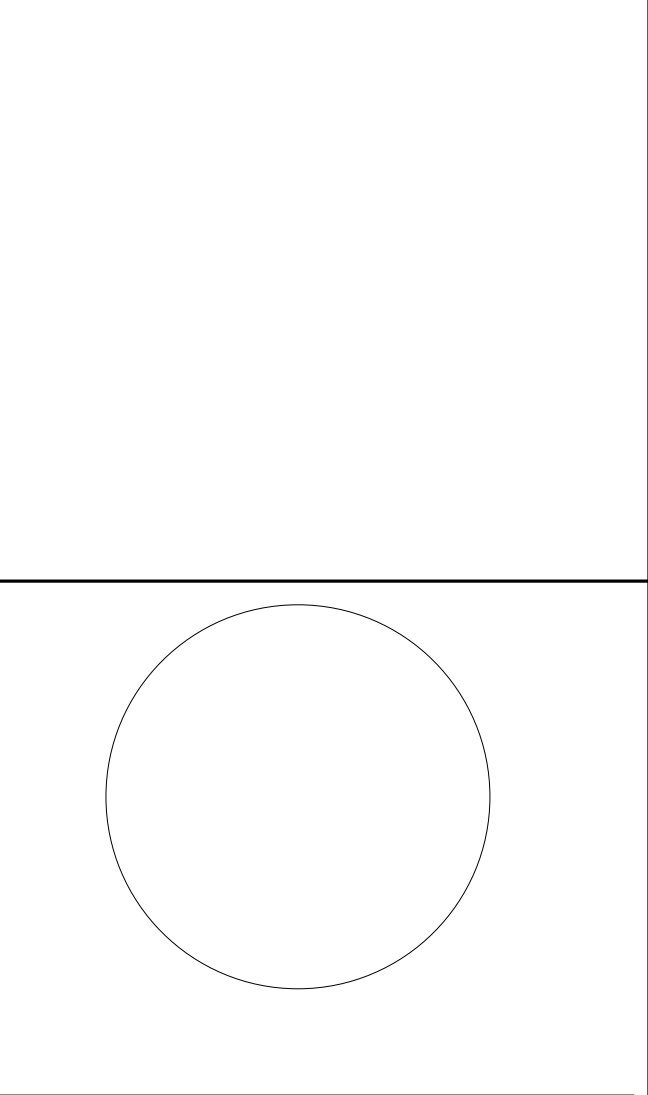
7 VENT THROUGH ROOF SCALE: N.T.S.



8 TYPICAL RISER ANCHOR SCALE: N.T.S.

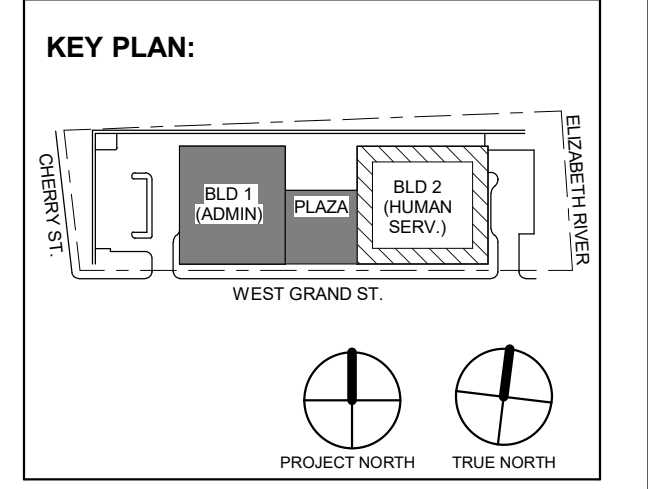
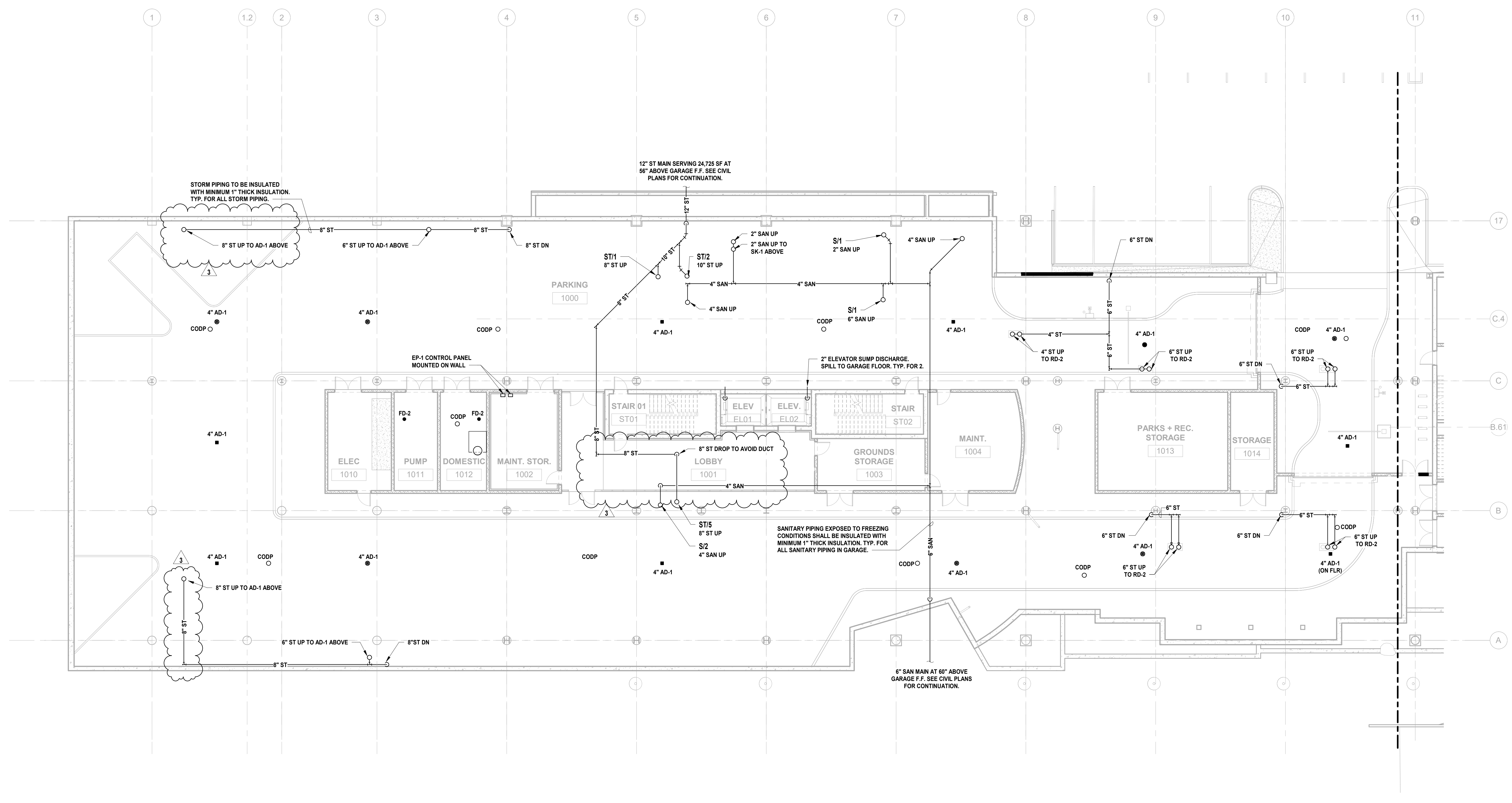


9 EQUIPMENT PAD DETAIL SCALE: N.T.S.



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A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY

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REVIEWED BY					
PROJECT No.	DIGA2301	DATE	12.14.2023	SCALE	AS SHOWN



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1	12.01.2023	Addendum No. 01
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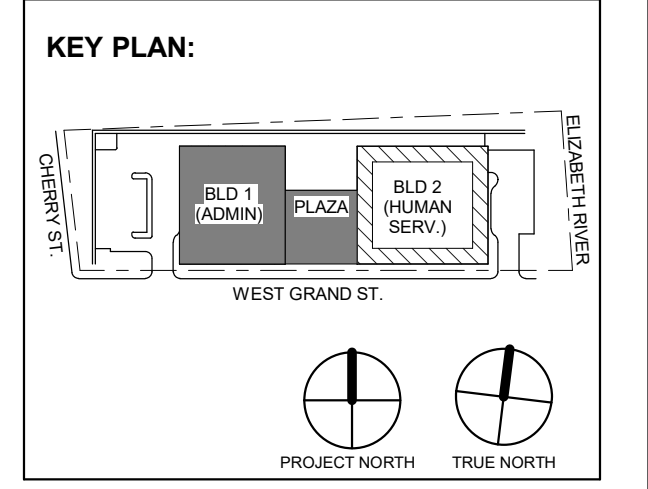
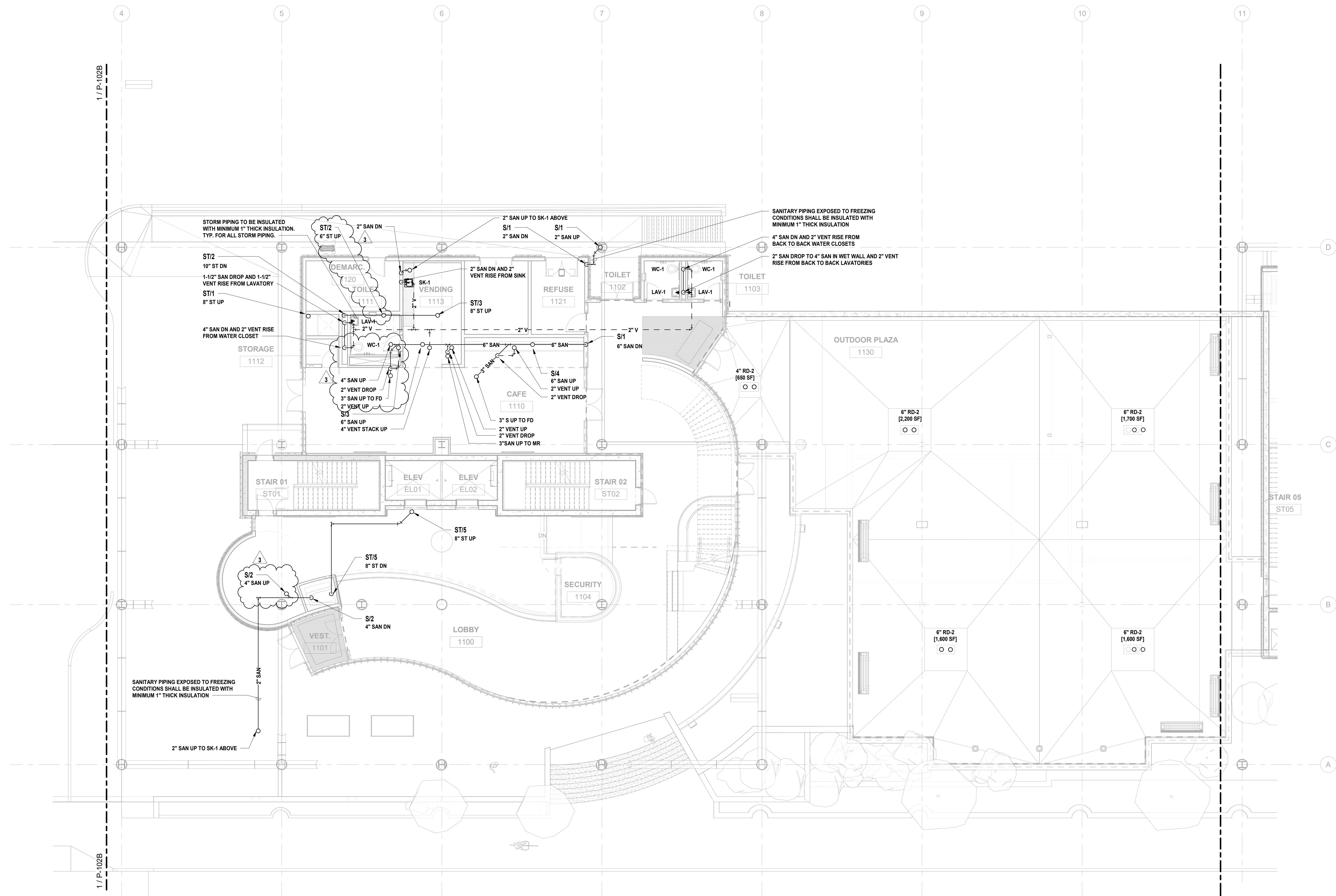
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Sheet Name:
BUILDING NO. 1 - LEVEL 0 - SANITARY & STORM PLAN

Sheet No:
P-101

1 BUILDING NO. 1 - LEVEL 0 - SANITARY & STORM
P-101 SCALE: 3/32" = 1'-0"





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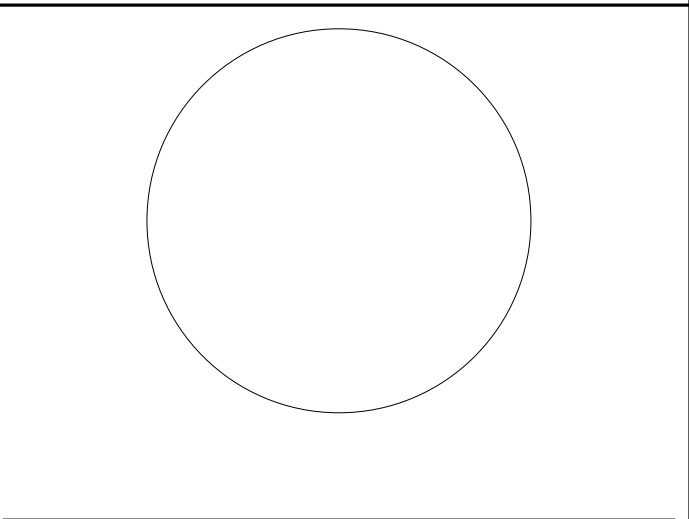
Sheet Name:
BUILDING NO. 1 - LEVEL 1 - SANITARY & STORM PLAN

Sheet No:

P-102A

1 BUILDING NO. 1 - LEVEL 1 - SANITARY & STORM
SCALE: 1/8" = 1'-0"





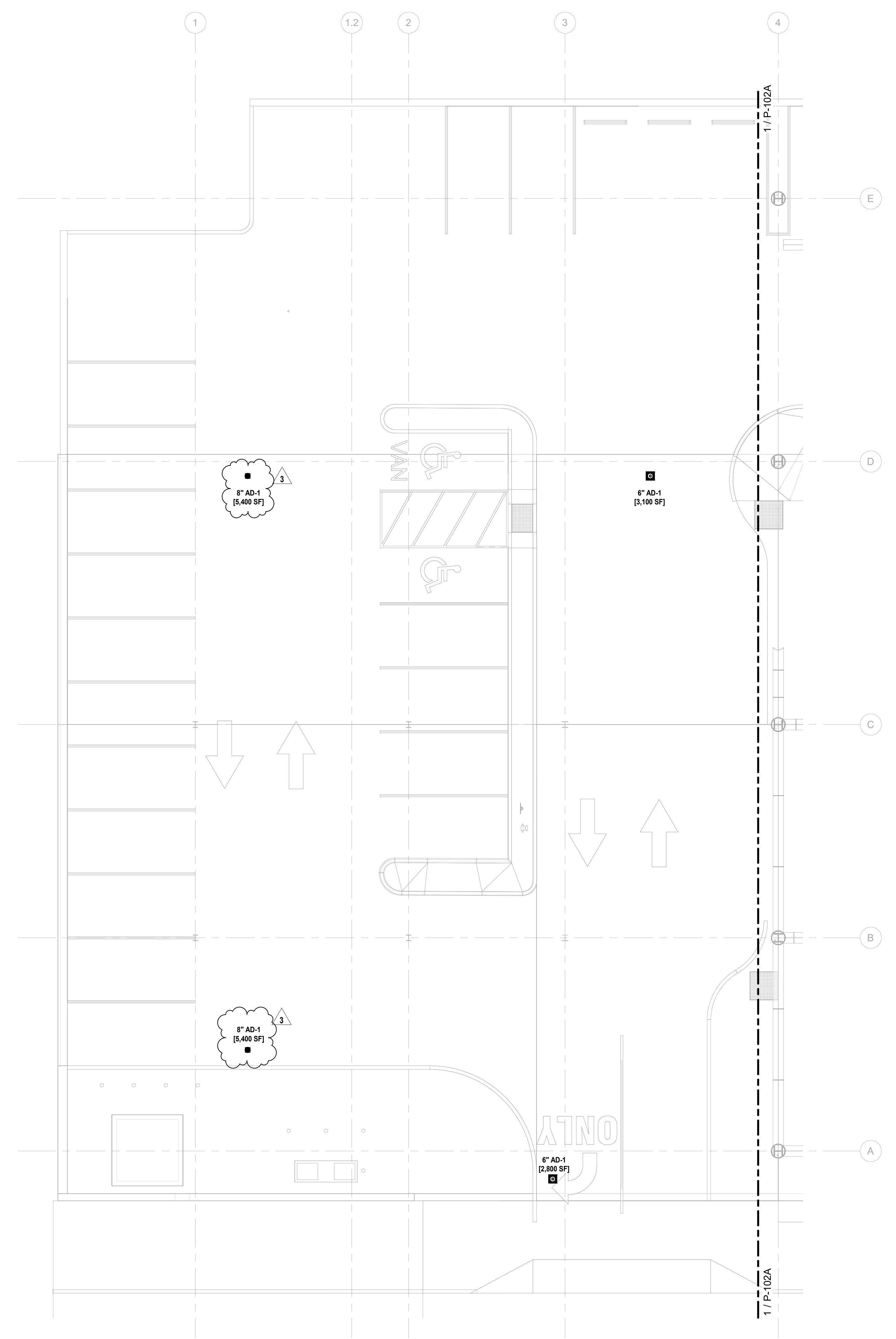
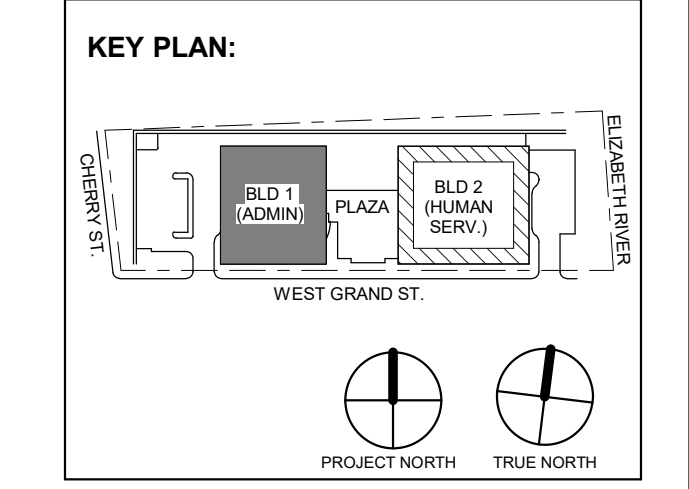
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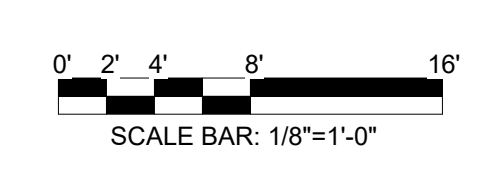
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1 BUILDING NO. 1 - LEVEL 1 PARKING - SANITARY & STORM
P-102B SCALE: 1/8" = 1'-0"



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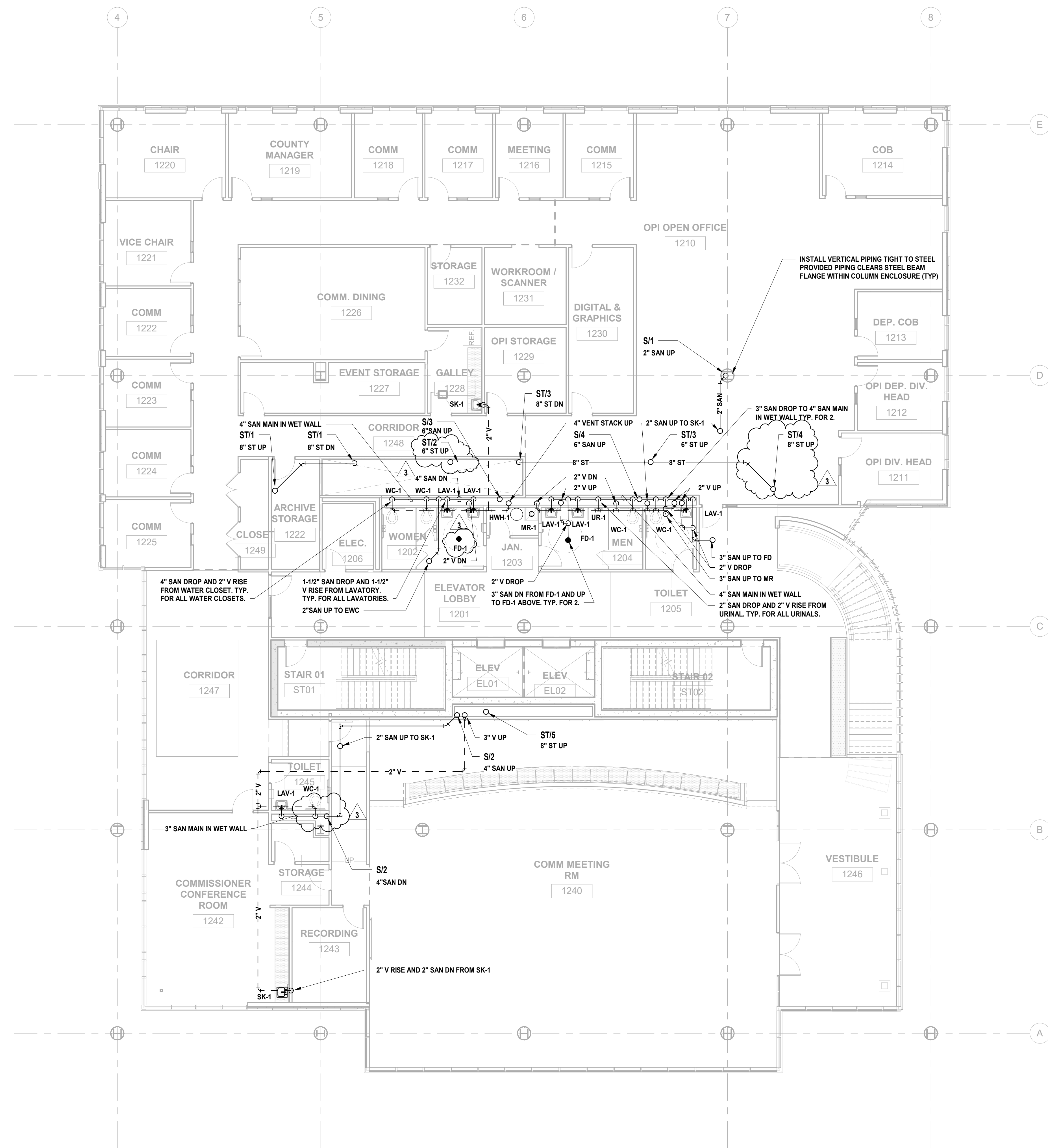
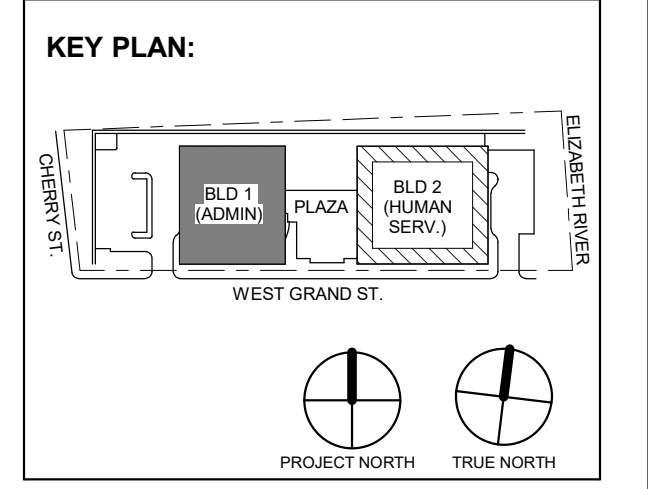
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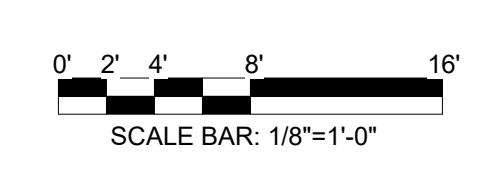
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Project No: 20.072
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Sheet Name:
BUILDING NO. 1 - LEVEL 1 PARKING - SANITARY & STORM PLAN

Sheet No:
P-102B



1 BUILDING NO. 1 - LEVEL 2 - SANITARY & STORM
P-103 SCALE: 1/8" = 1'-0"



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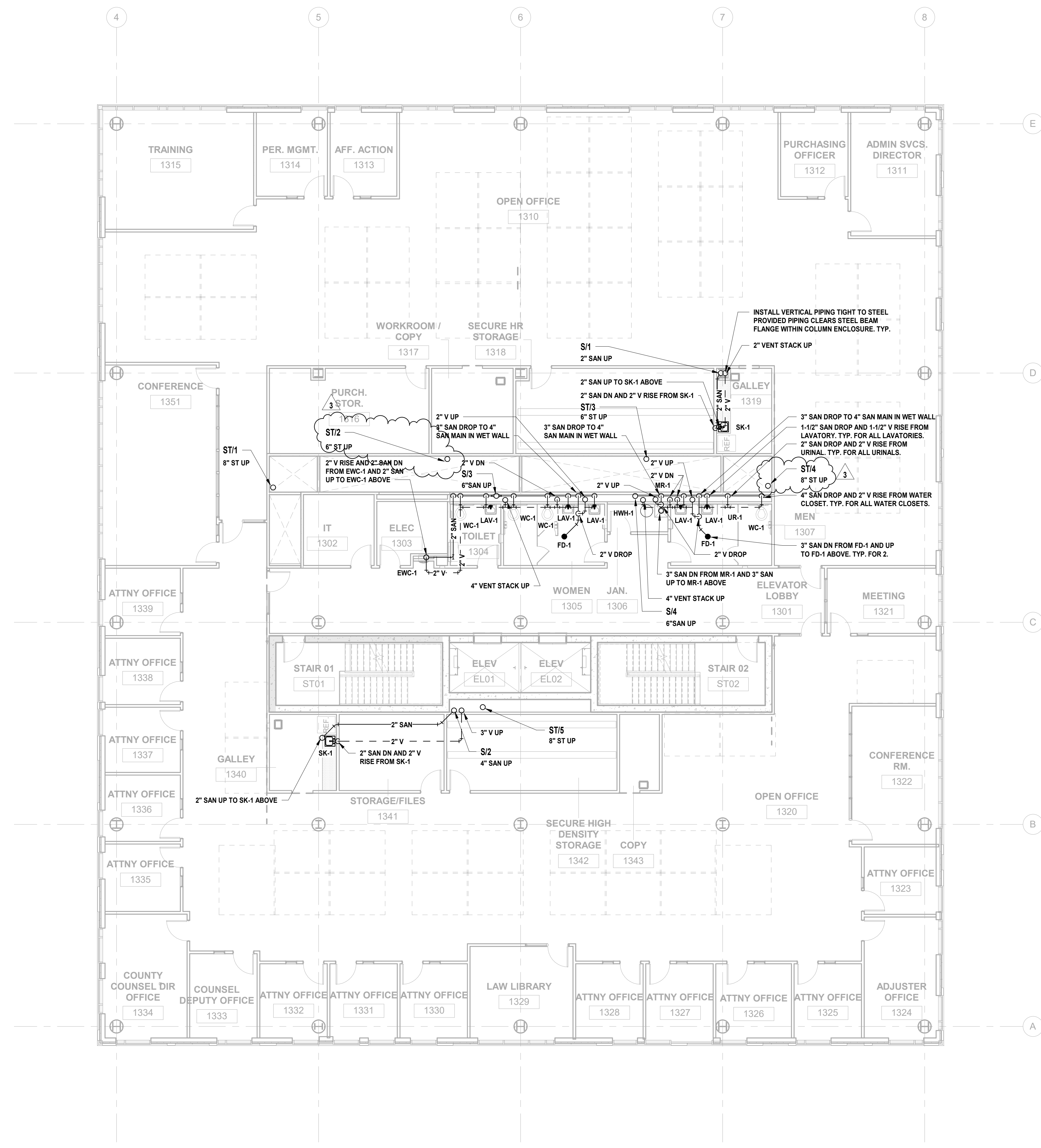
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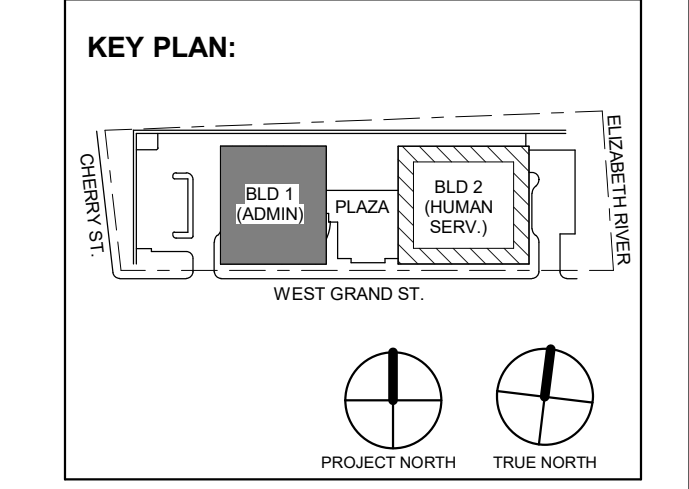
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Sheet No: P-103



1 BUILDING NO. 1 - LEVEL 3 - SANITARY & STORM
SCALE: 1/8" = 1'-0"



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1 12.01.2023 Addendum No. 01
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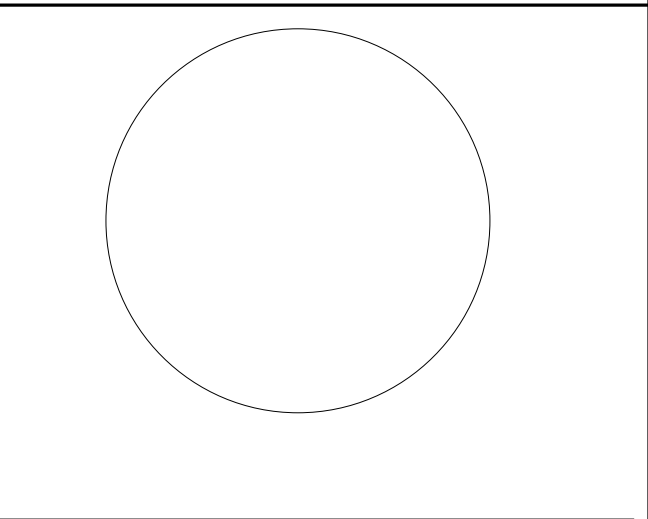
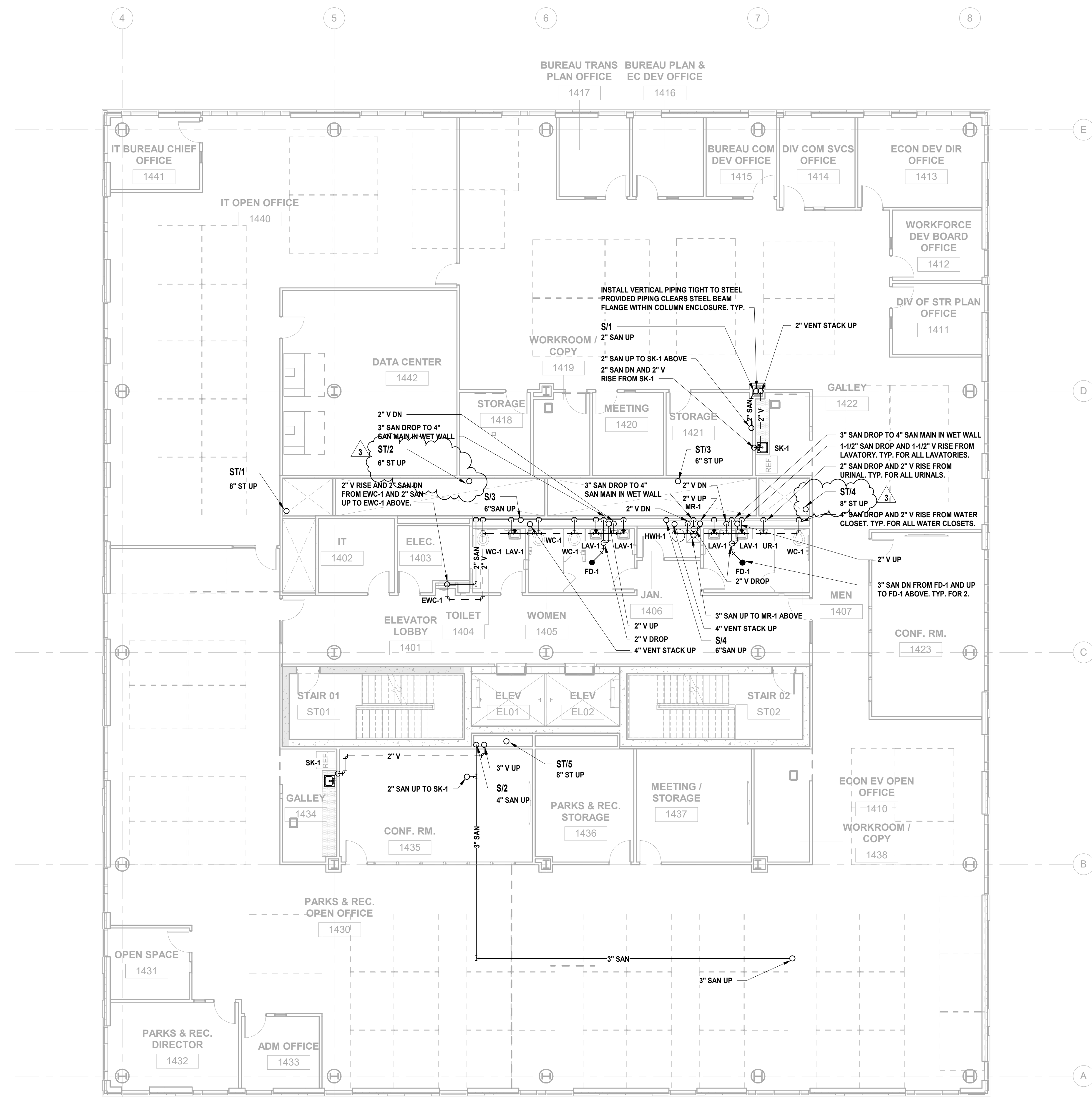
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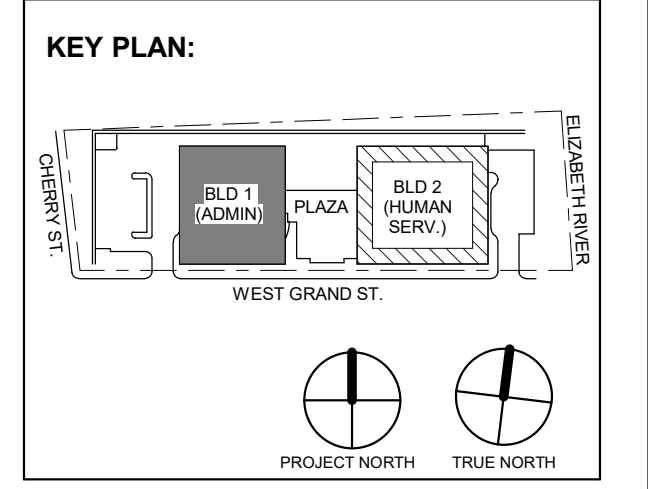
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P-104





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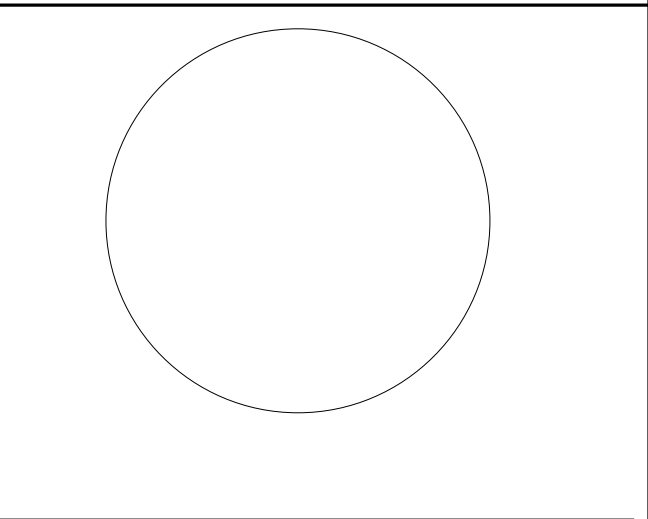
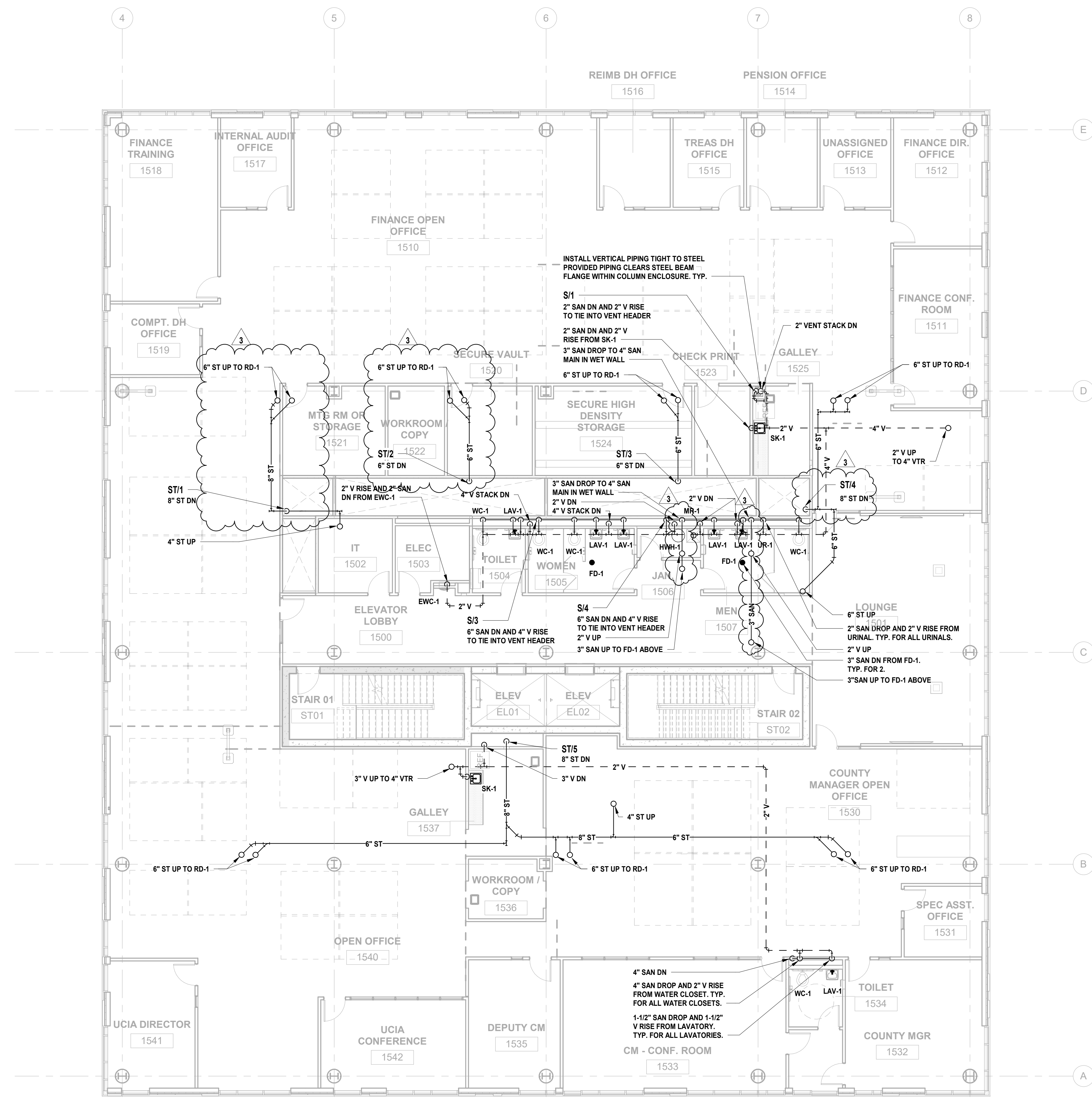
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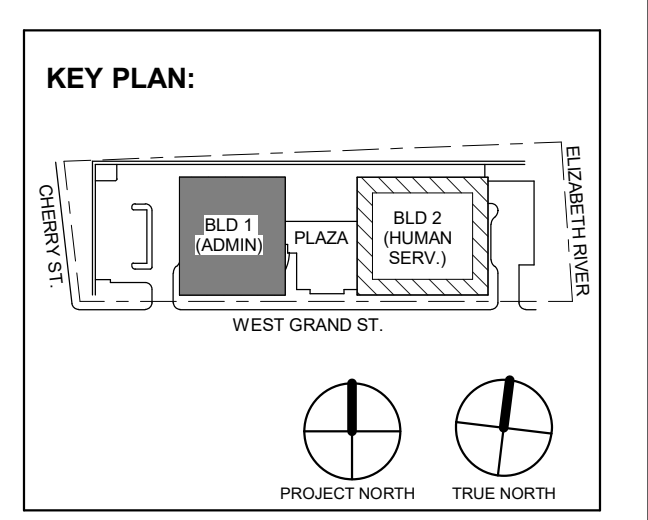
Sheet No:
P-105

1 BUILDING NO. 1 - LEVEL 4 - SANITARY & STORM
P-105 SCALE: 1/8" = 1'-0"





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P-106

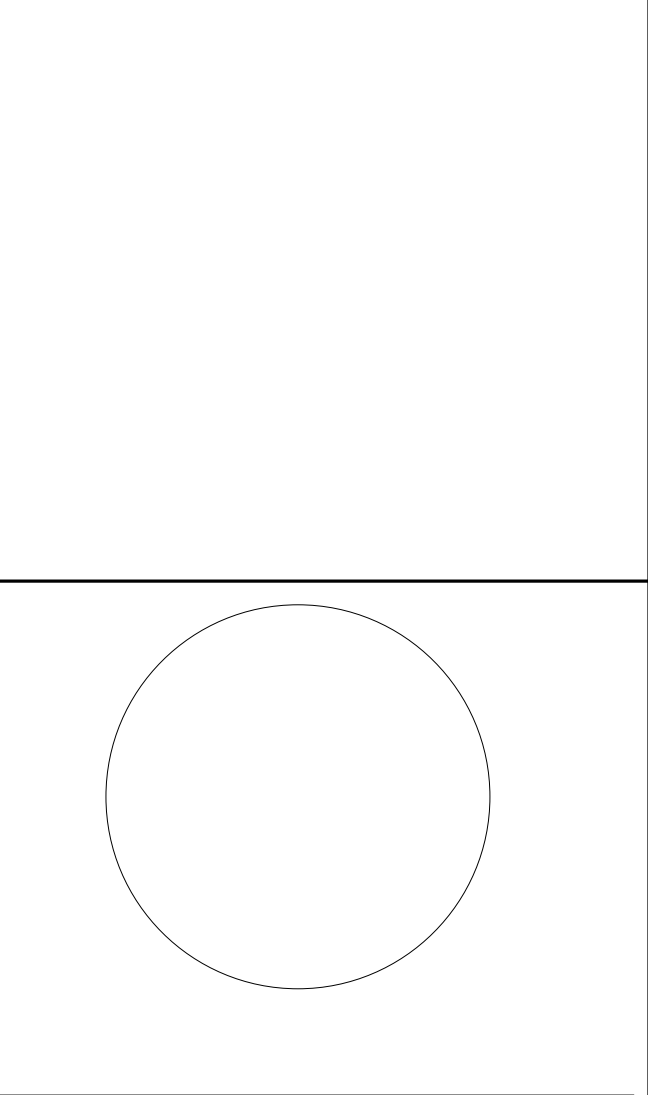
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P-106 SCALE: 1/8" = 1'-0"



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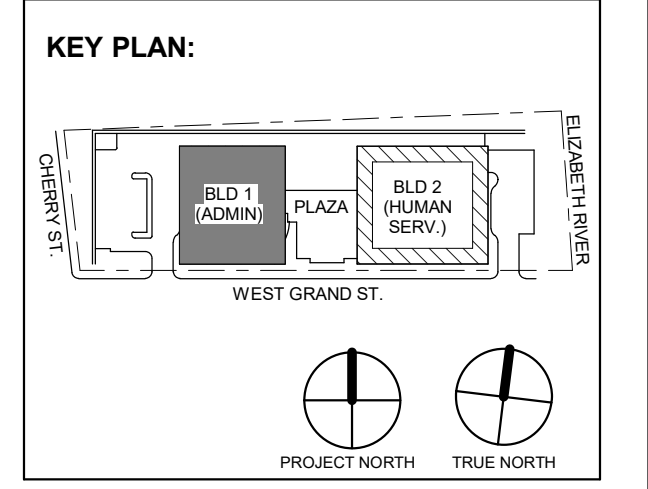
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DRAWN BY: CRG
CHECKED BY: JRM
REVIEWED BY: JRM

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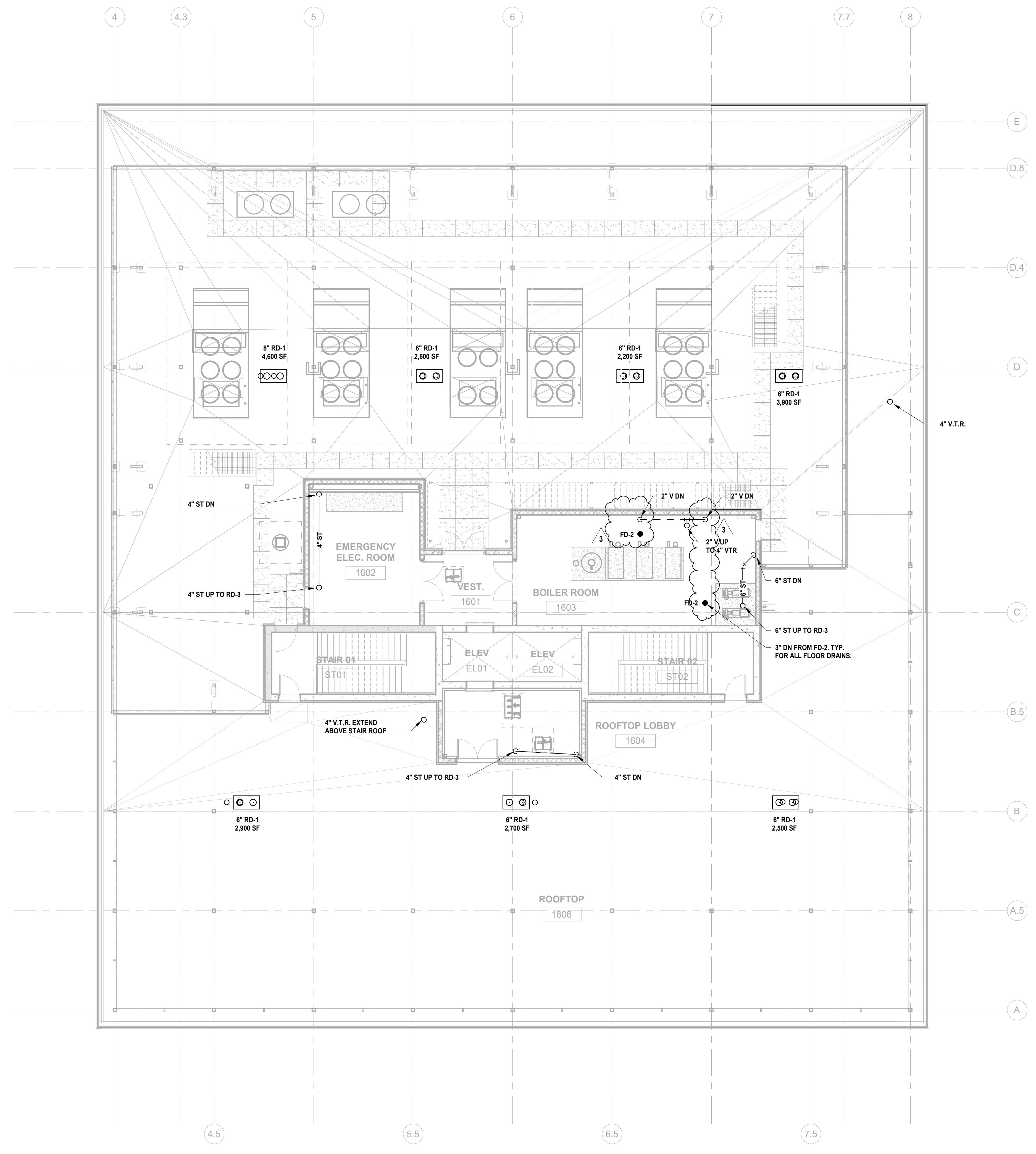
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
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Sheet Name:
BUILDING NO. 1 - ROOF - SANITARY & STORM PLAN

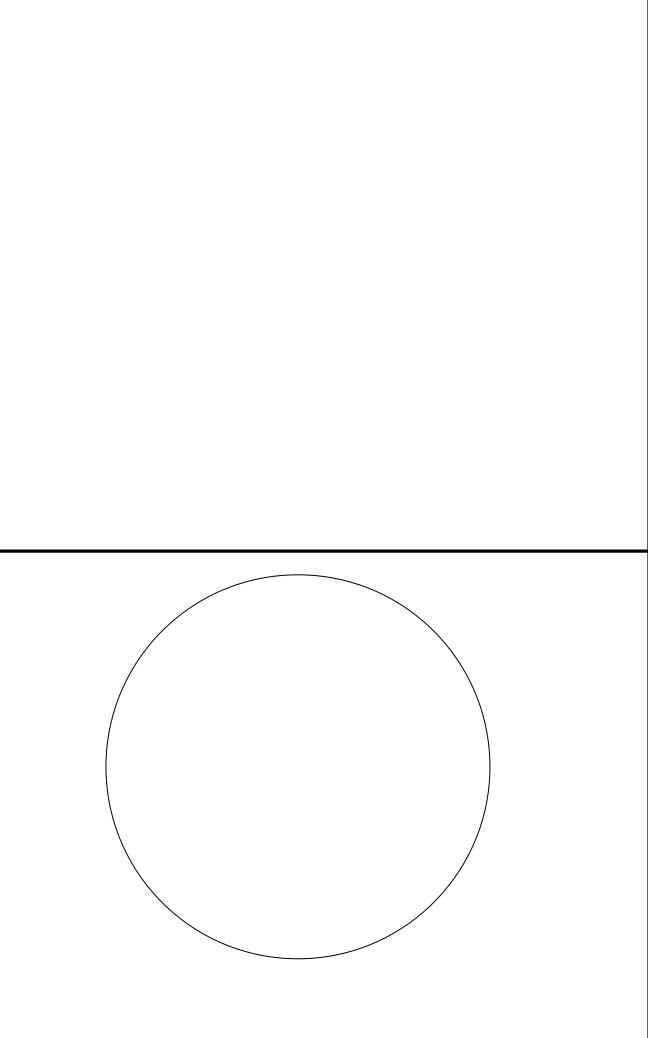
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P-107

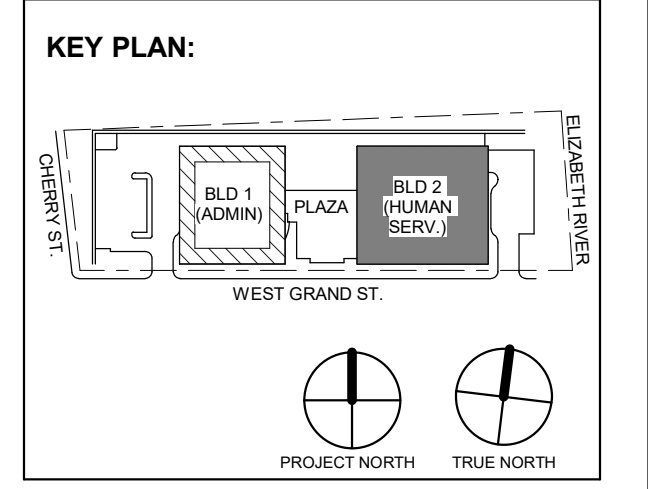
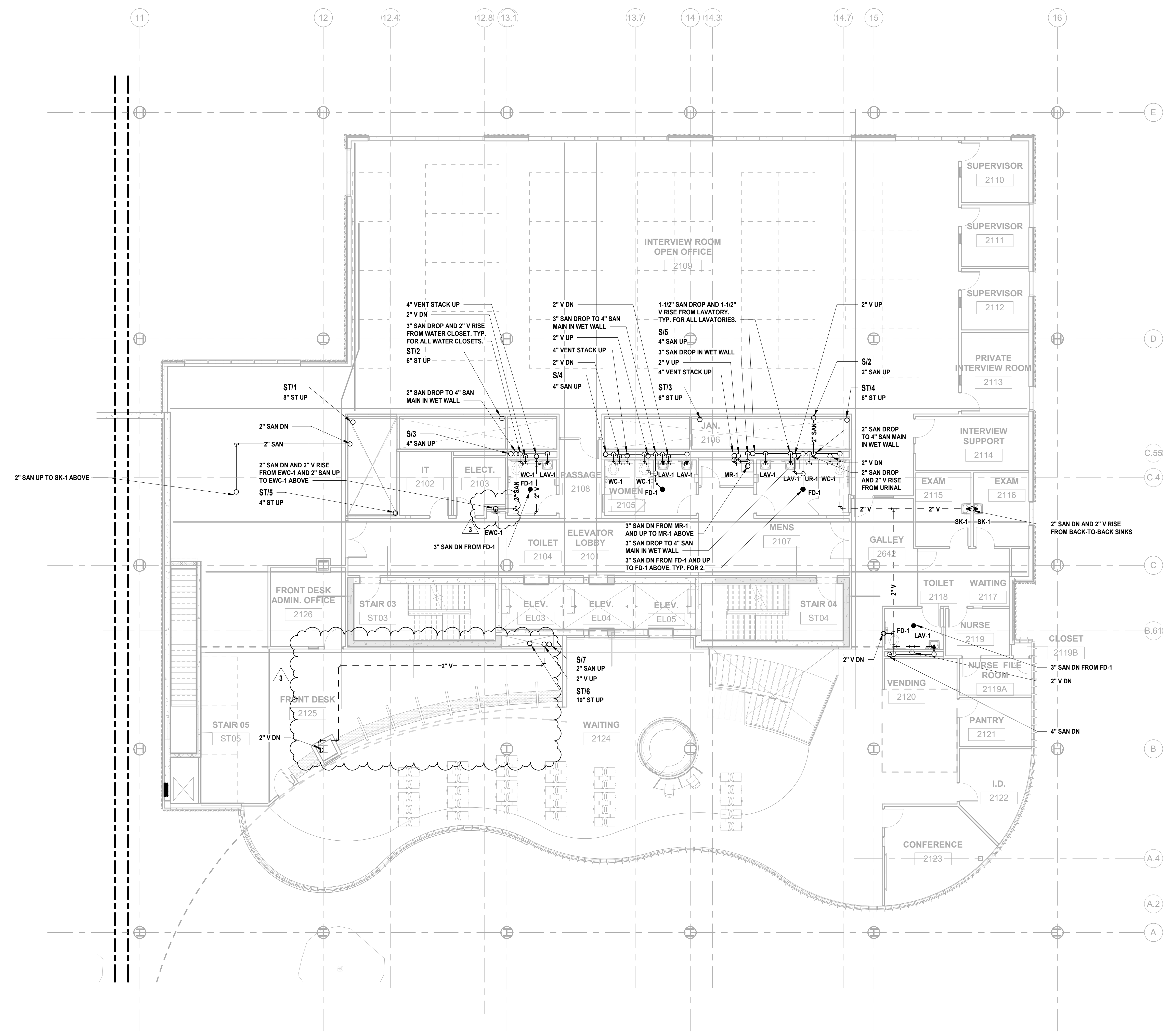


1 BUILDING NO. 1 - ROOF - SANITARY & STORM
SCALE: 1/8" = 1'-0"





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No.	Date	Description
3	12.14.2023	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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Project:
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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 1 - SANITARY & STORM PLAN

Sheet No:
P-111

1 BUILDING NO. 2 - LEVEL 1 - SANITARY & STORM
SCALE: 1/8" = 1'-0"



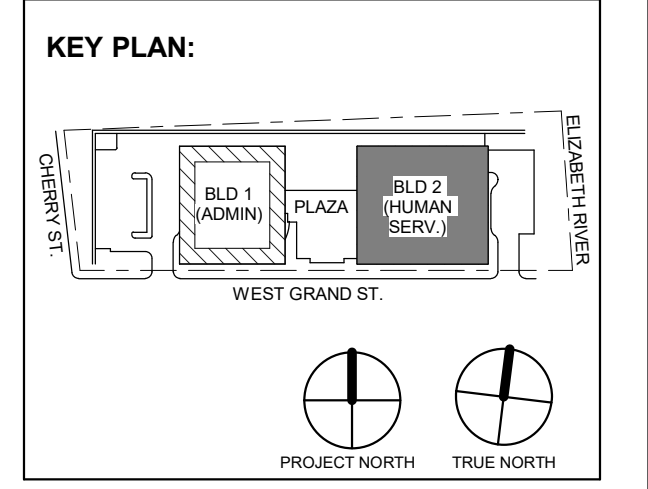


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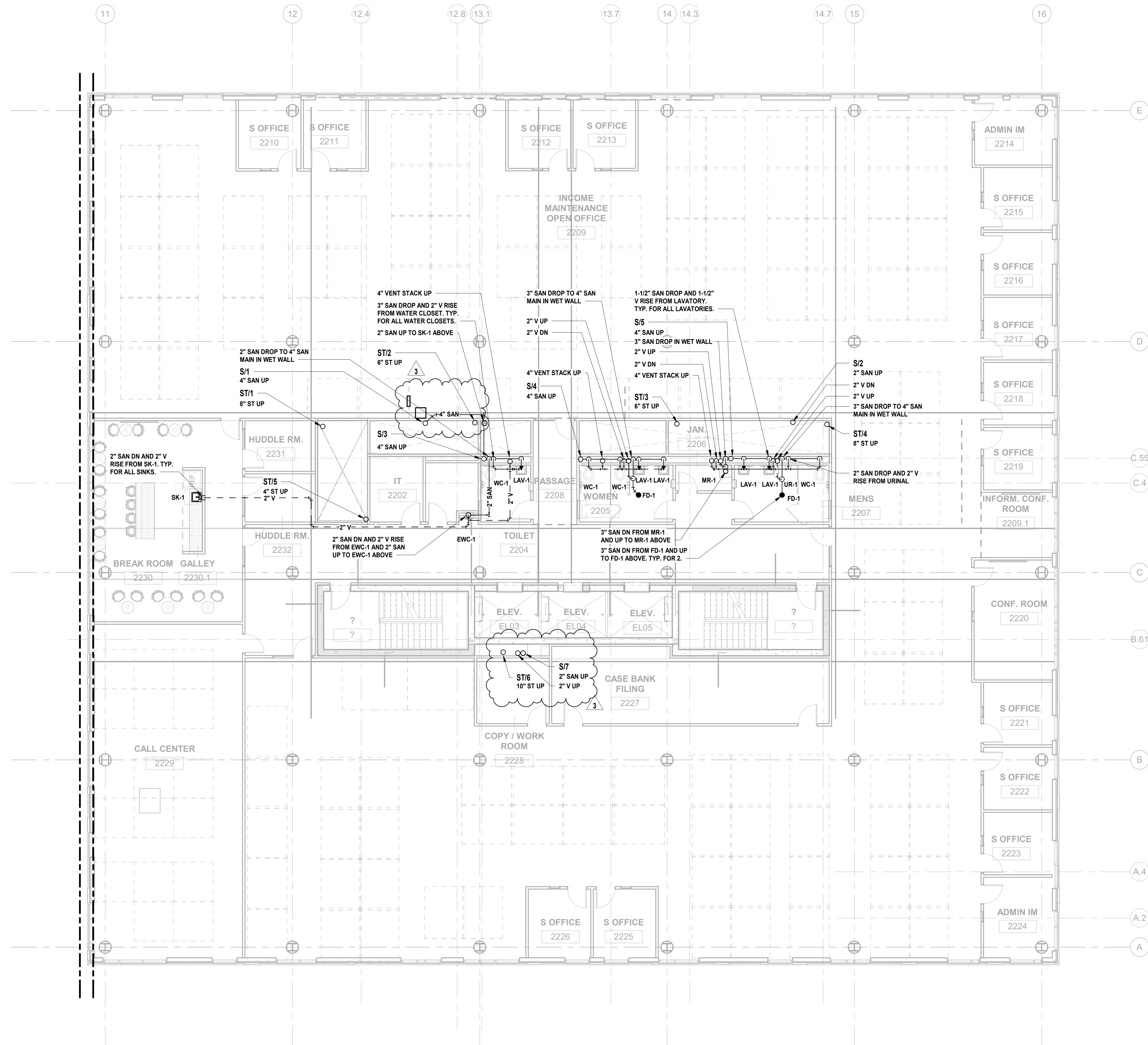
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UNION COUNTY IMPROVEMENT AUTHORITY

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

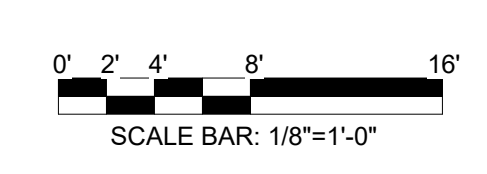
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Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

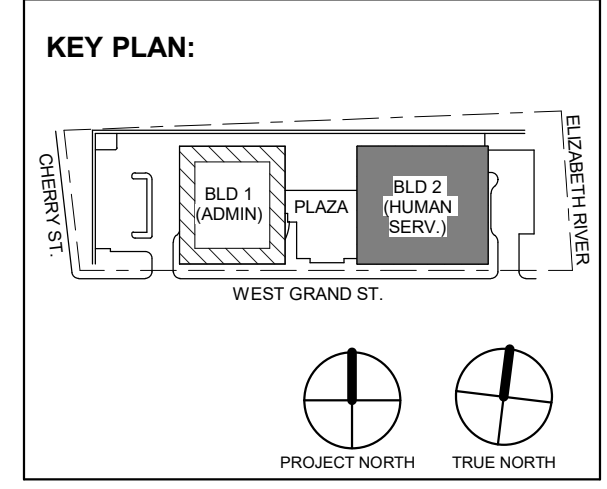
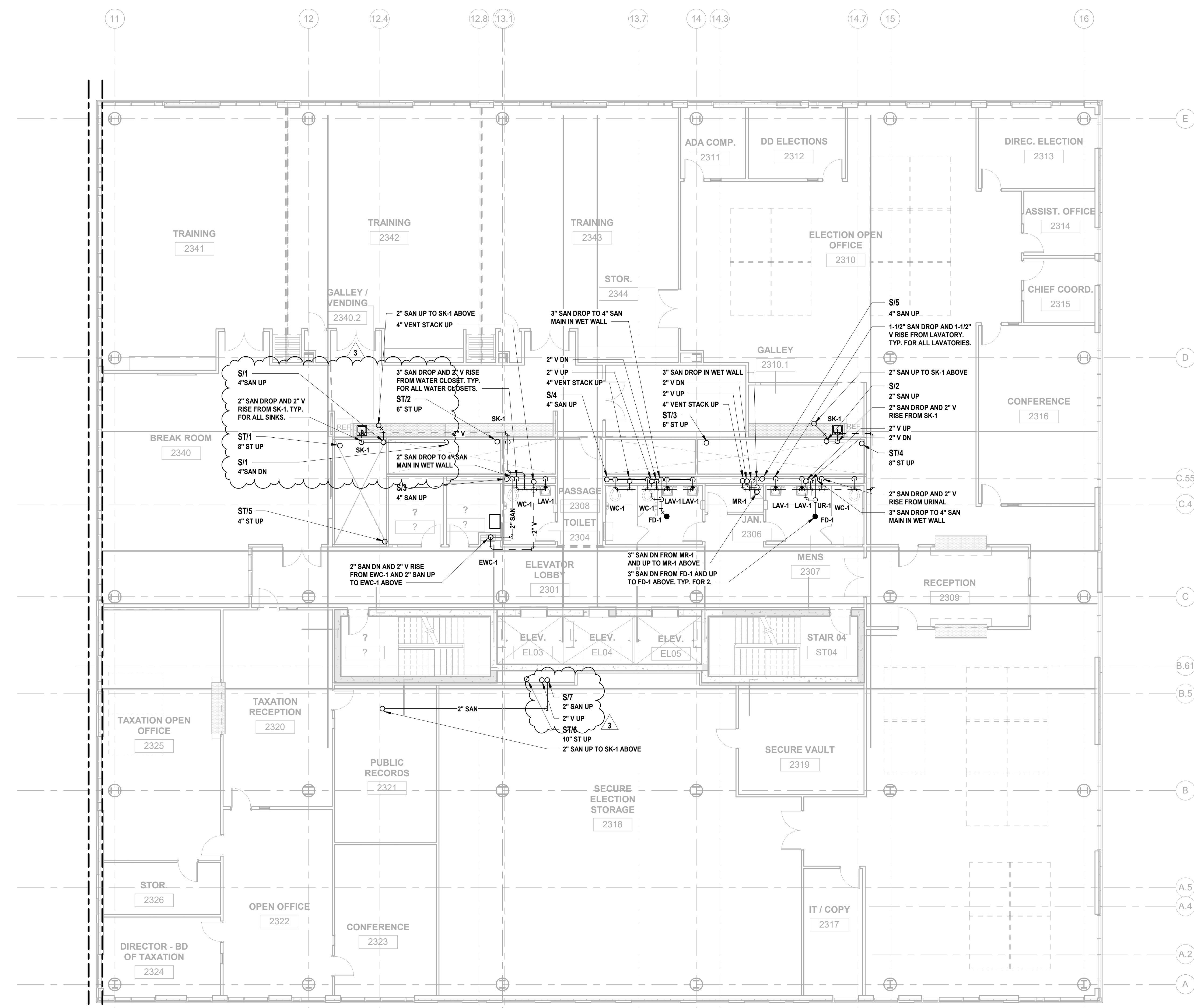
Sheet Name:
BUILDING NO. 2 - LEVEL 2 - SANITARY & STORM PLAN

Sheet No:
P-112



1 BUILDING NO. 2 - LEVEL 2 - SANITARY & STORM
P-112 SCALE: 1/8" = 1'-0"





3 12.14.2023 Addendum No. 03
1 12.01.2023 Addendum No. 01
11.08.2023 For Public Bid

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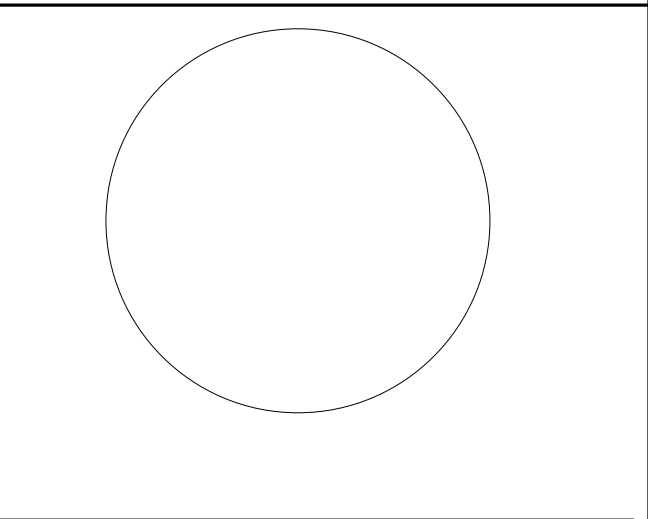
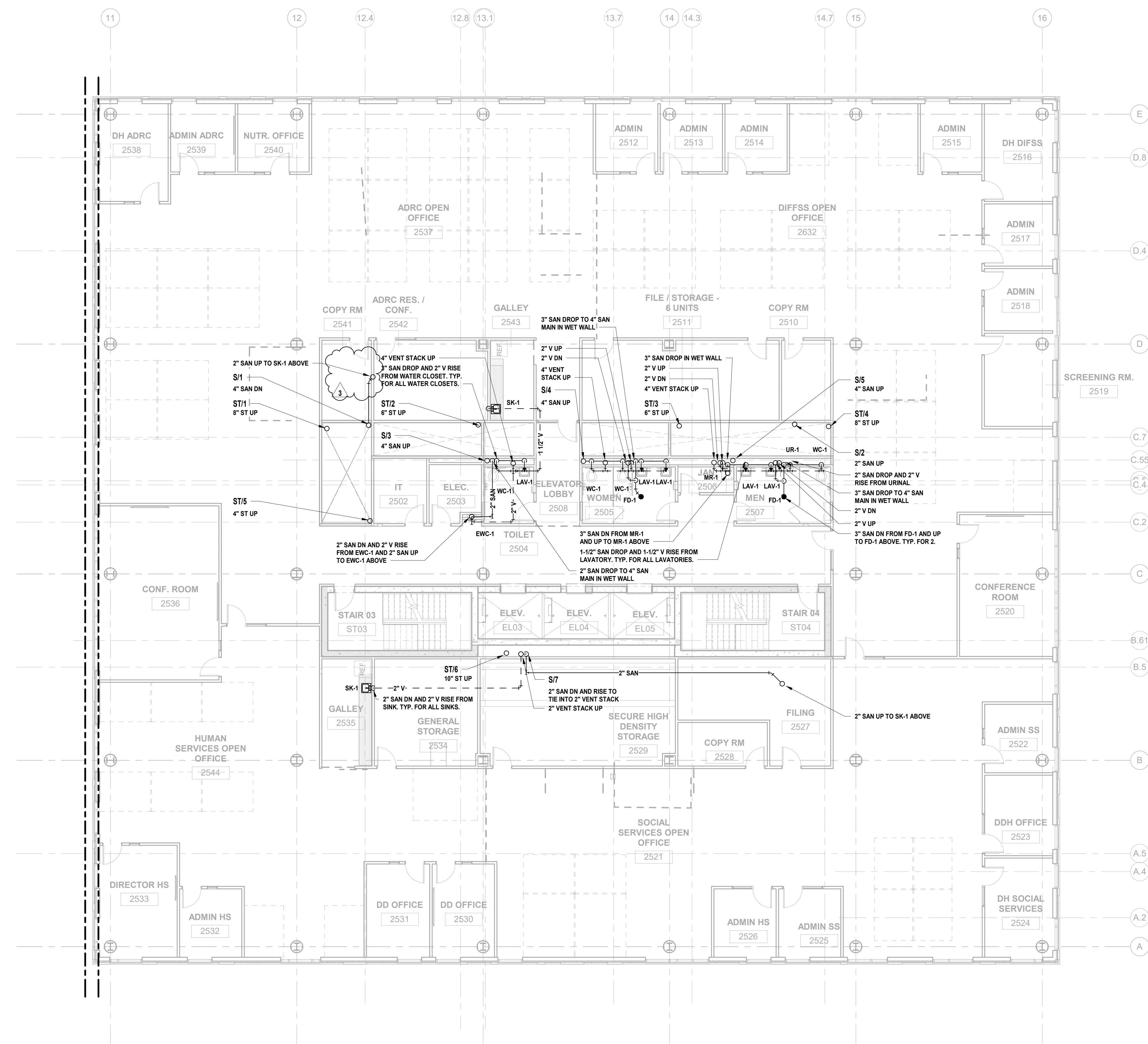
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Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 3 - SANITARY & STORM PLAN

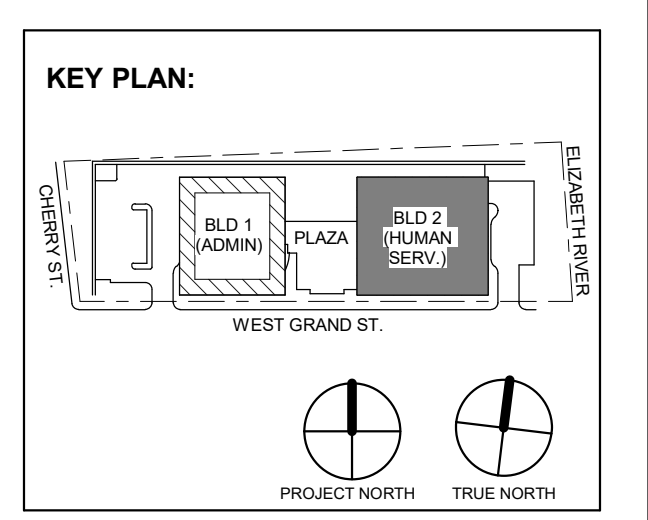
Sheet No:
P-113

1 BUILDING NO. 2 - LEVEL 3 - SANITARY & STORM
P-113 SCALE: 1/8" = 1'-0"





JONATHAN R. MURATORE, P.E.
A PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY
LICENSE NO. 354888007
DESIGNED BY: CRG DRAWN BY: CRG CHECKED BY: JRM REVIEWED BY: JRM
PROJECT NO: D16A2301 DATE: 12.14.2023 SCALE: AS SHOWN



No.	Date	Description
3	12.14.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
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CITY OF ELIZABETH
NEW JERSEY, 07202**

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Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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Sheet Name:
**BUILDING NO. 2 - LEVEL 5 -
SANITARY & STORM PLAN**

Sheet No:
P-115

1 BUILDING NO. 2 - LEVEL 5 - SANITARY & STORM
P-115 SCALE: 1/8" = 1'-0"



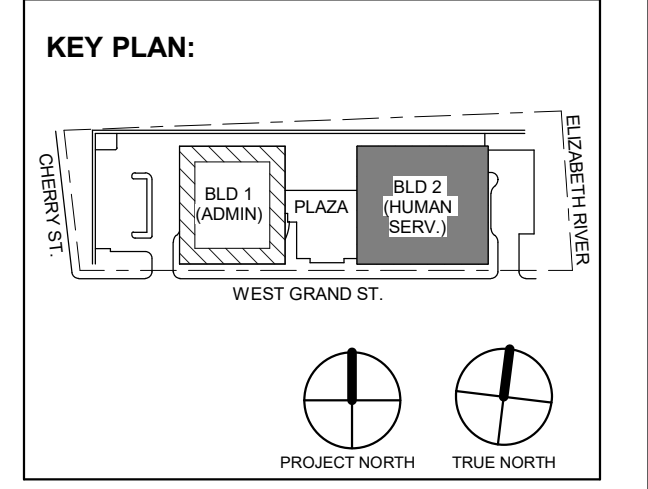


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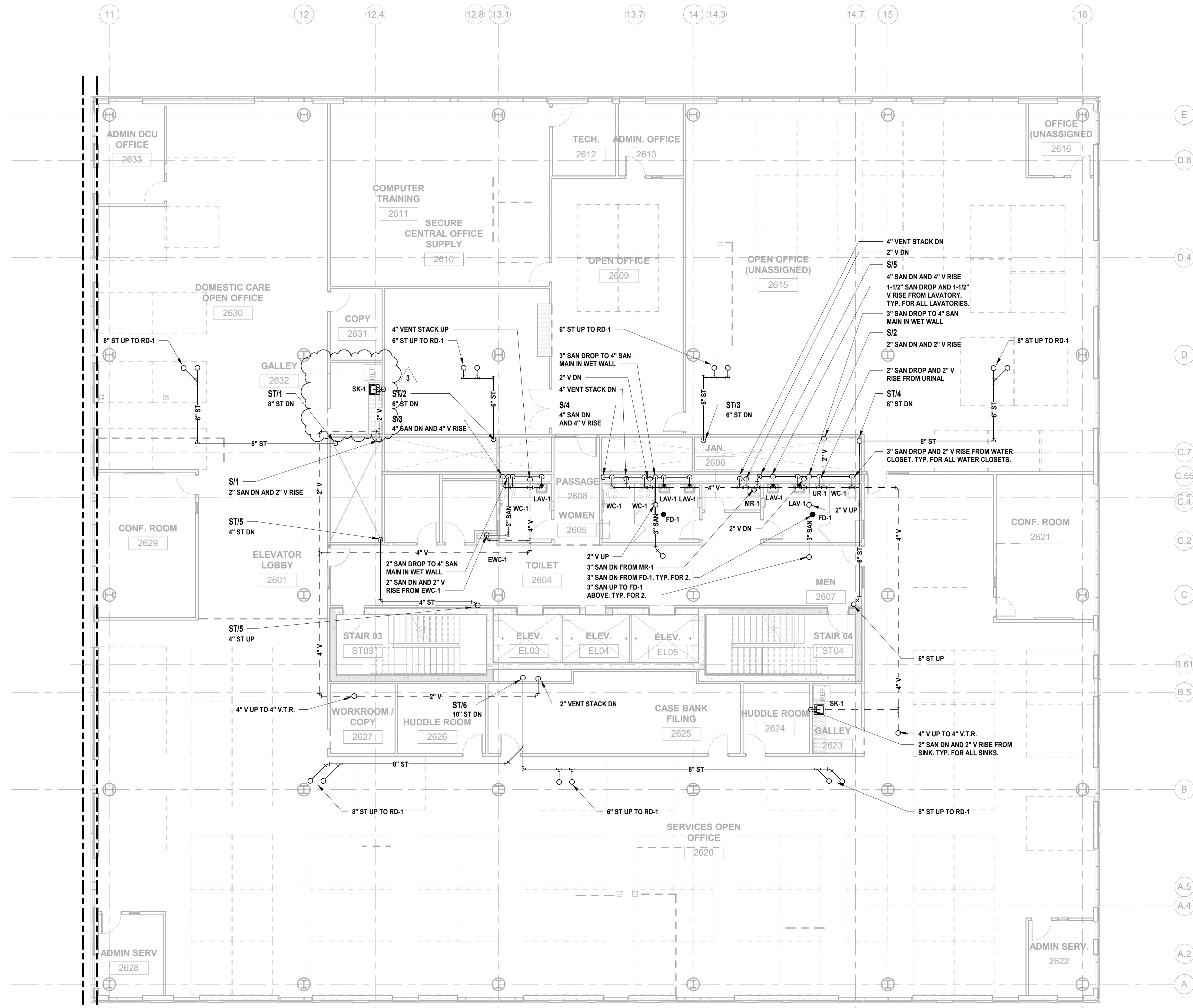
Client: UNION COUNTY IMPROVEMENT AUTHORITY

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 6 - SANITARY & STORM PLAN

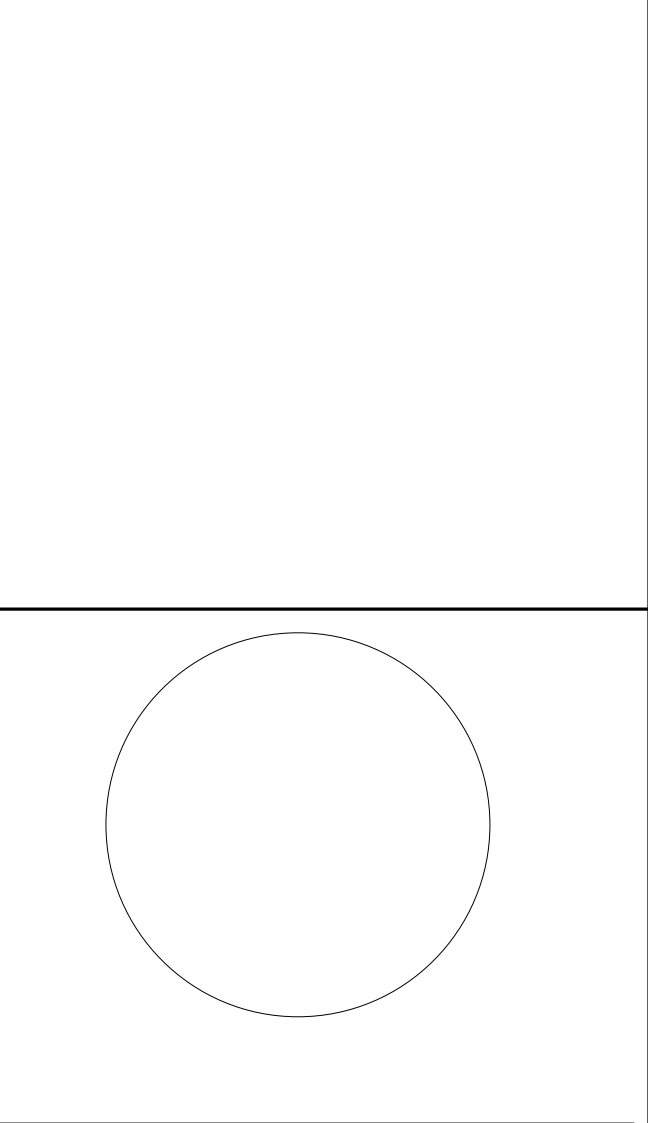
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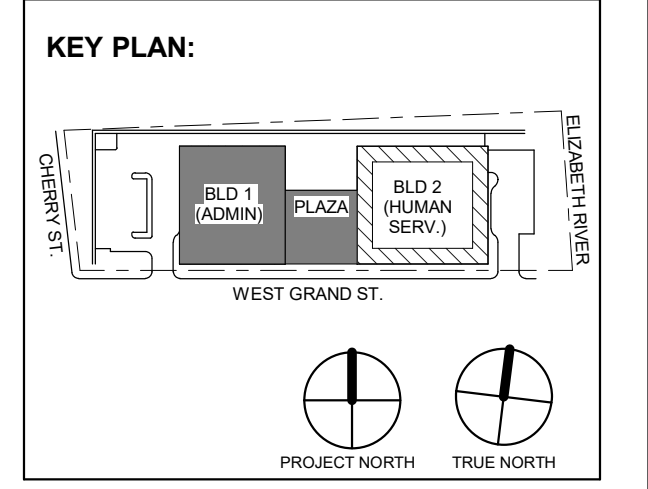
1 BUILDING NO. 2 - LEVEL 6 - SANITARY & STORM P-116 SCALE: 1/8\"/>

12/14/2023 2:12:22 PM

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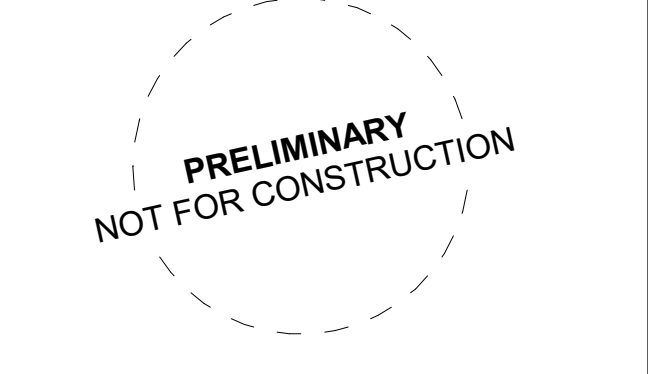


3	12.14.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
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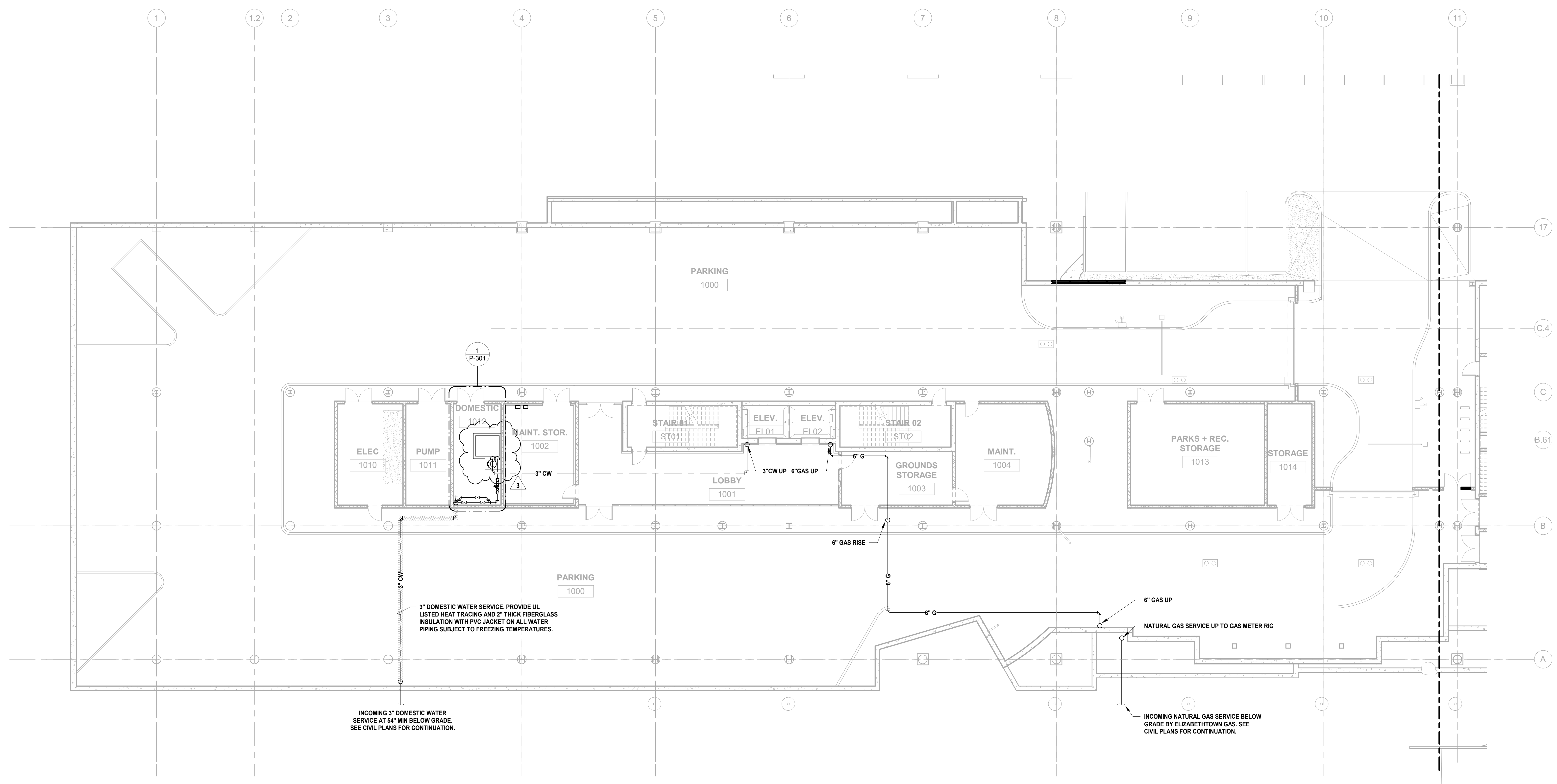
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

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

Sheet Name:
BUILDING NO. 1 - LEVEL 0 - DOMESTIC WATER & GAS PLAN

Sheet No:

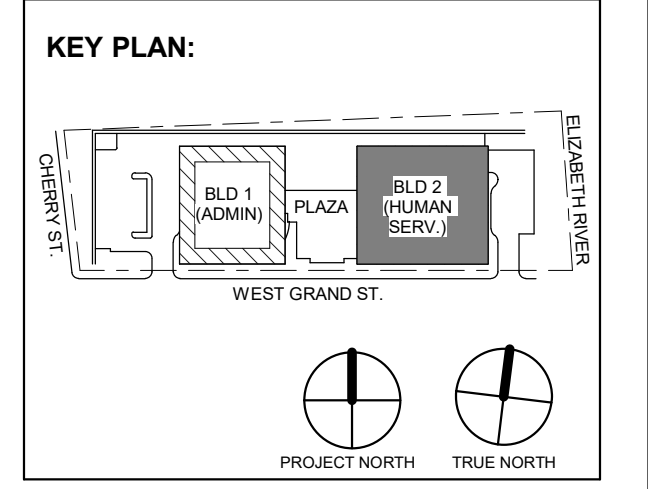
P-201



1 BUILDING NO. 1 - LEVEL 0 - DOMESTIC WATER & GAS
P-201 SCALE: 3/32" = 1'-0"



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

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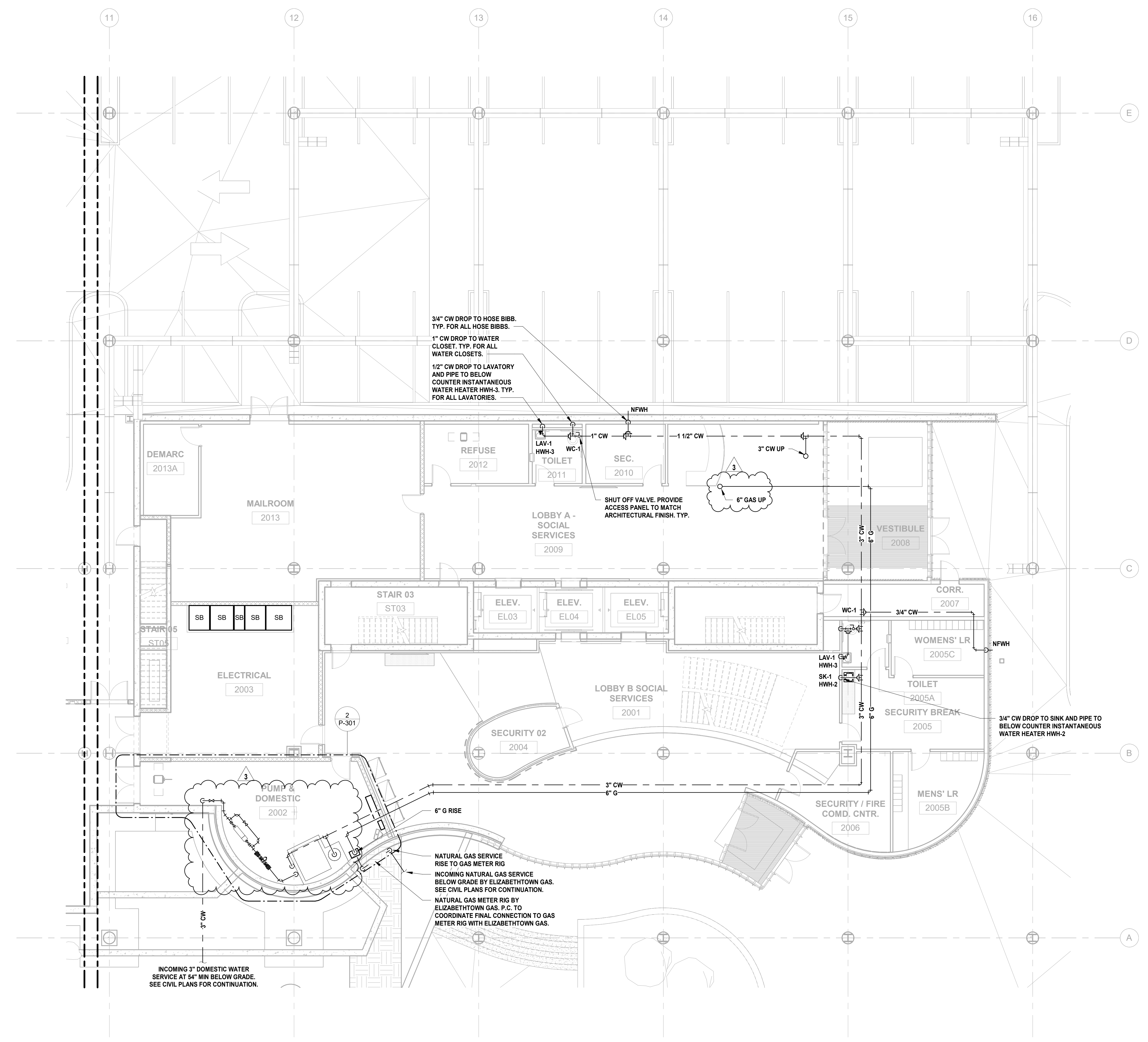
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CITY OF ELIZABETH
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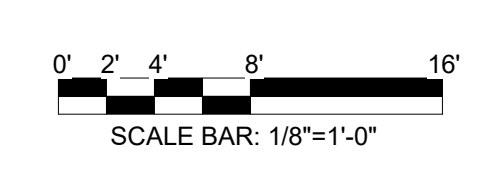
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Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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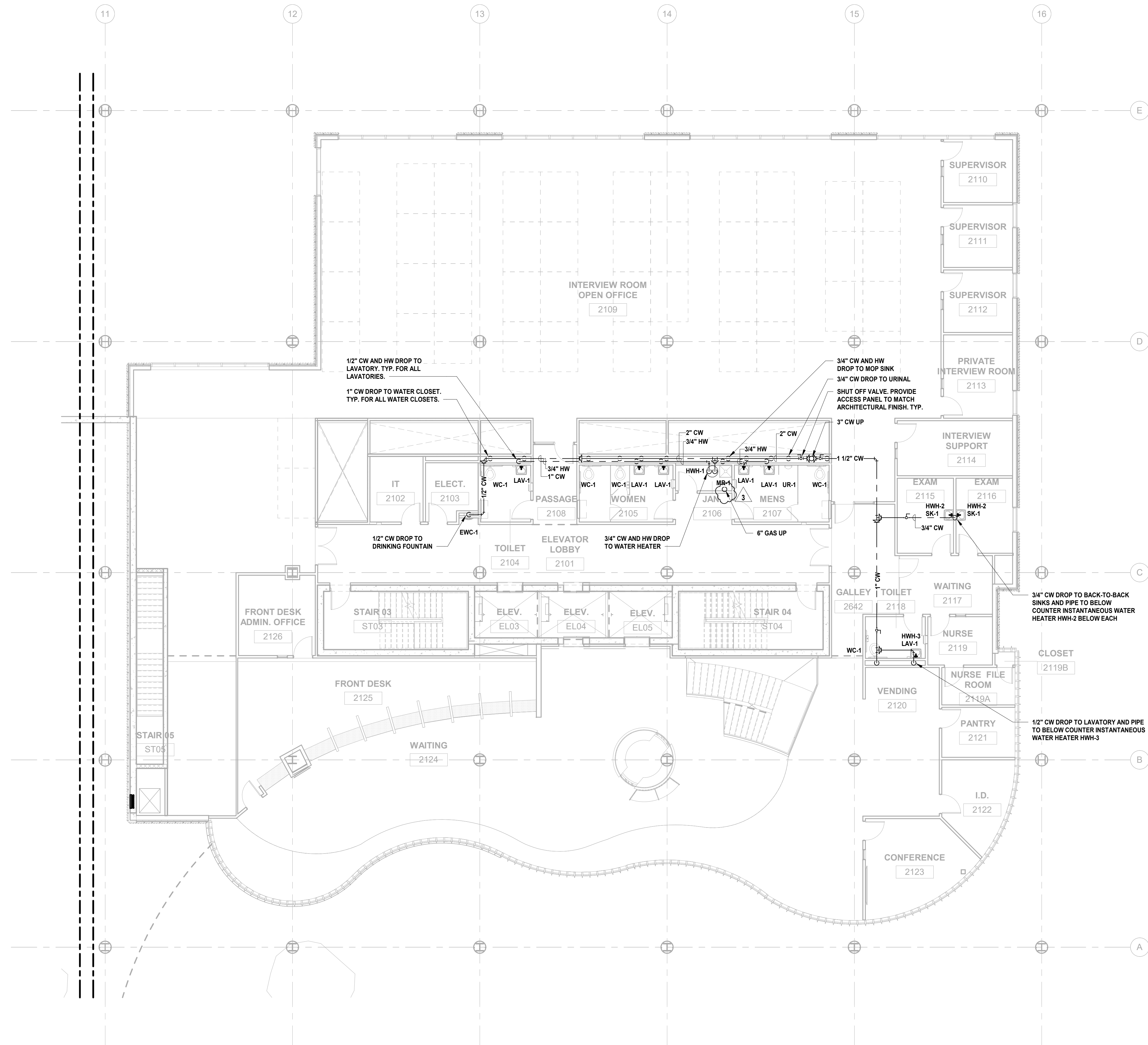
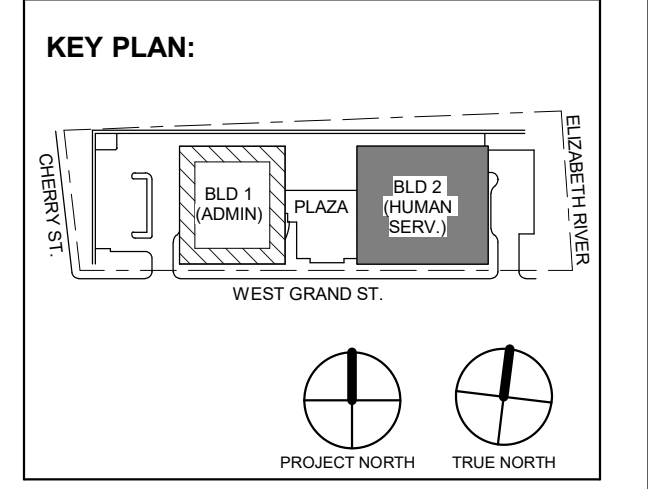
Sheet Name:
BUILDING NO. 2 - LEVEL 0 - DOMESTIC WATER & GAS PLAN

Sheet No:
P-208

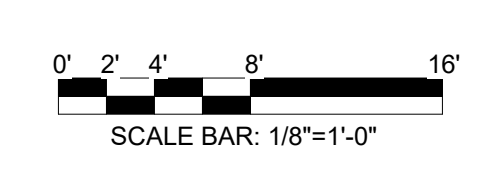


1 BUILDING NO. 2 - LEVEL 0 - DOMESTIC WATER & GAS
P-208 SCALE: 1/8" = 1'-0"





1 BUILDING NO. 2 - LEVEL 1 - DOMESTIC WATER & GAS
P-209 SCALE: 1/8" = 1'-0"



3 12.14.2023 Addendum No. 03
1 12.01.2023 Addendum No. 01
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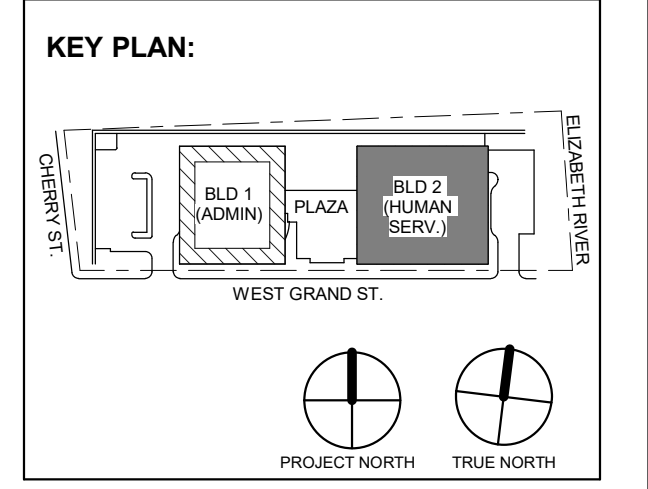
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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Sheet Name:
BUILDING NO. 2 - LEVEL 1 - DOMESTIC WATER & GAS PLAN

Sheet No:

P-209



3 12.14.2023 Addendum No. 03
1 12.01.2023 Addendum No. 01
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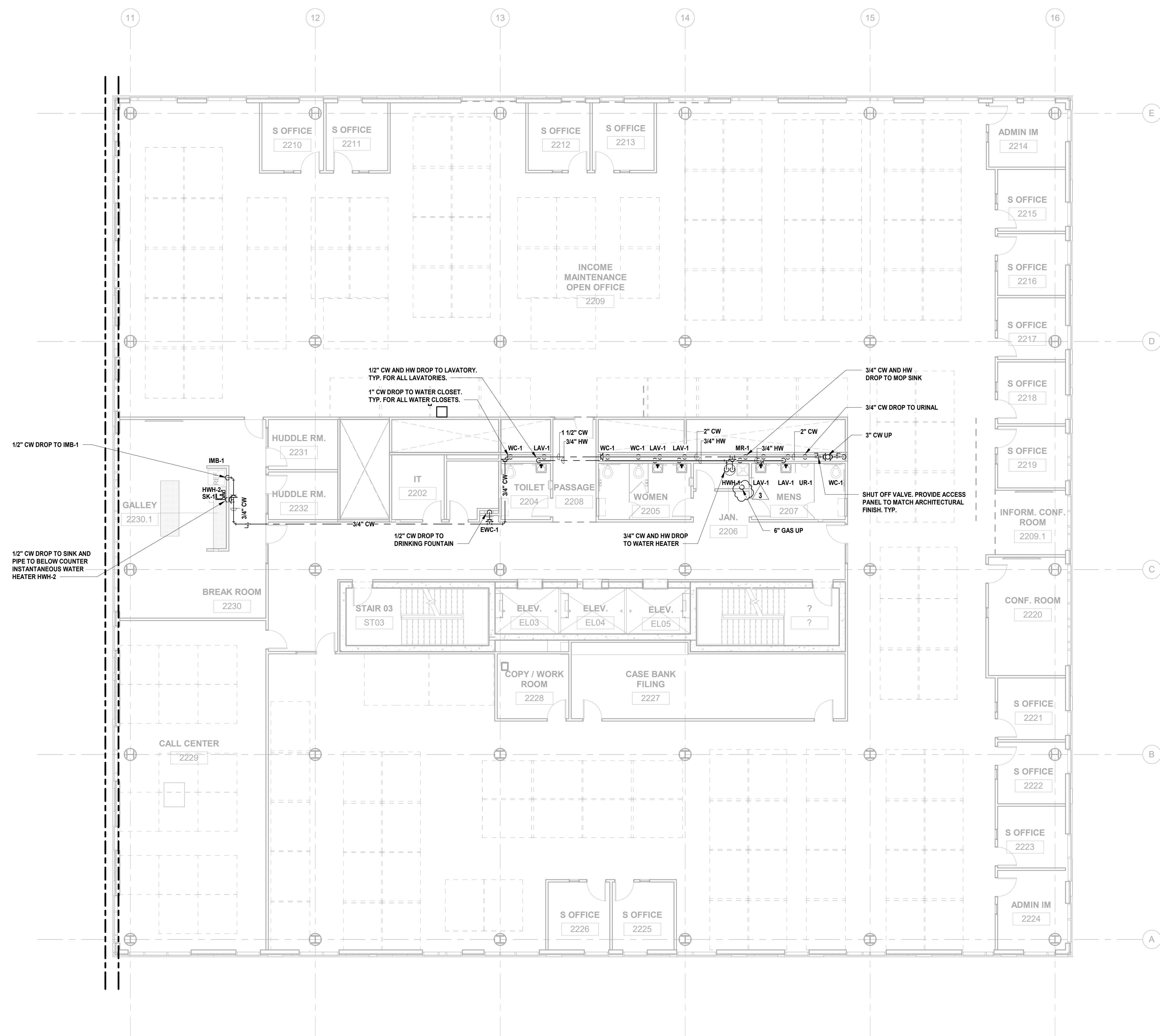
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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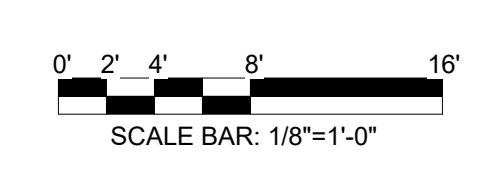
Sheet Name:
BUILDING NO. 2 - LEVEL 2 - DOMESTIC WATER & GAS PLAN

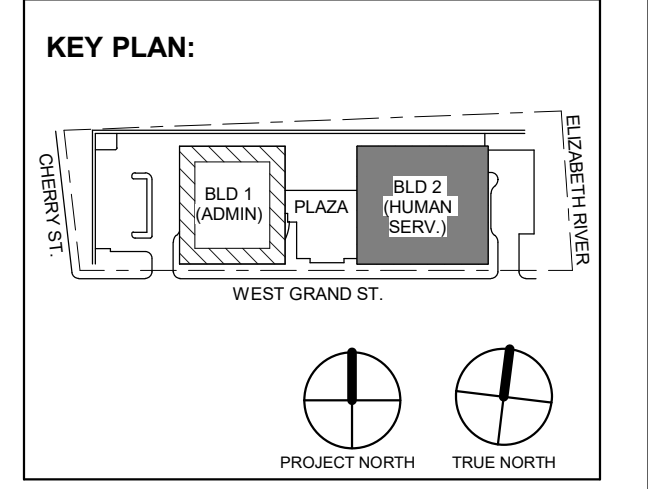
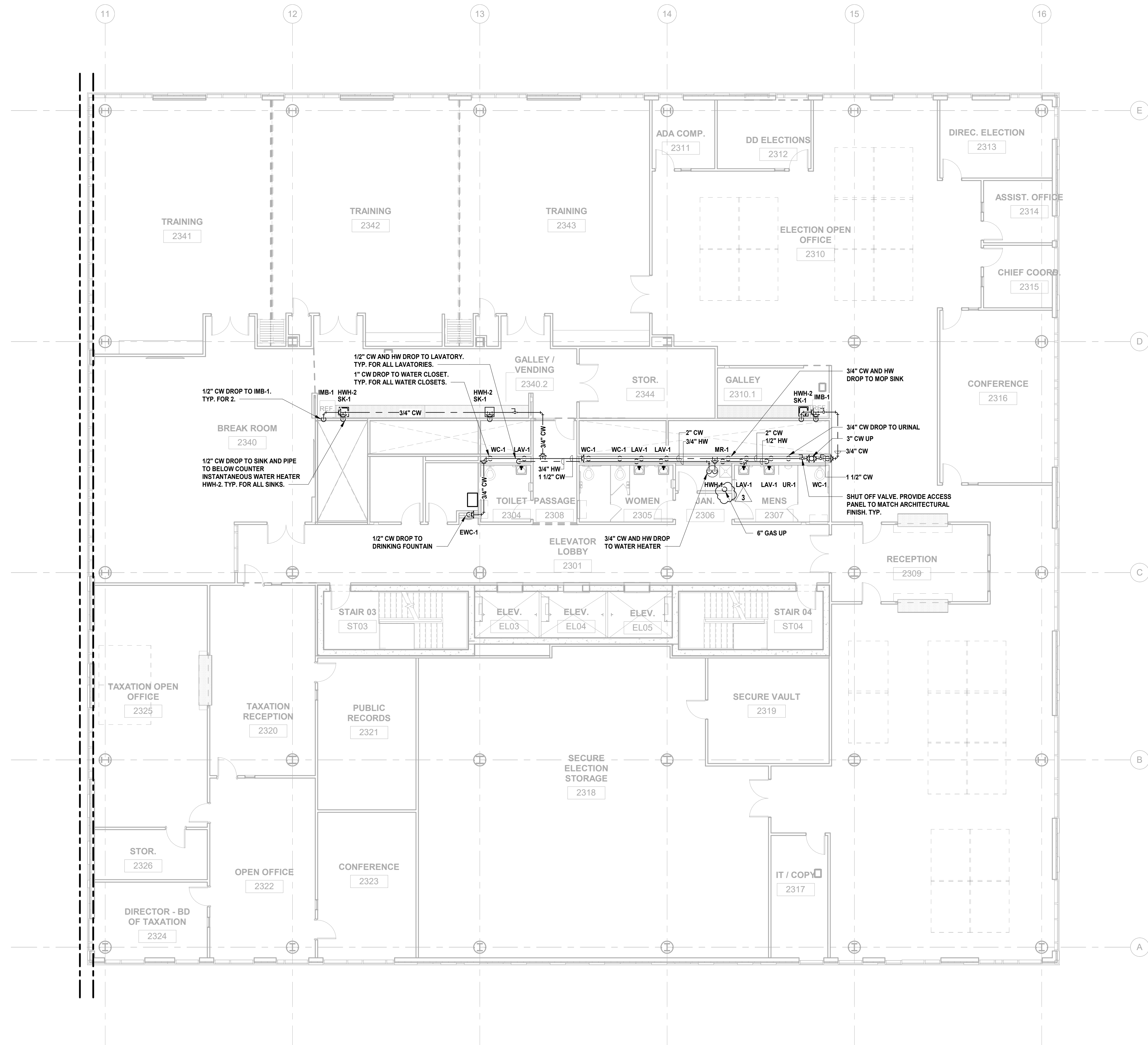
Sheet No:

P-210



1 BUILDING NO. 2 - LEVEL 2 - DOMESTIC WATER & GAS
SCALE: 1/8" = 1'-0"





No.	Date	Description
3	12.14.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
1	11.08.2023	For Public Bid

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CITY OF ELIZABETH
NEW JERSEY, 07202

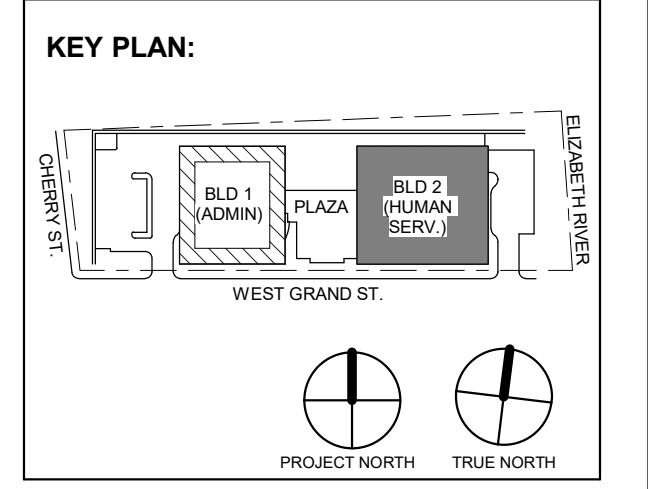
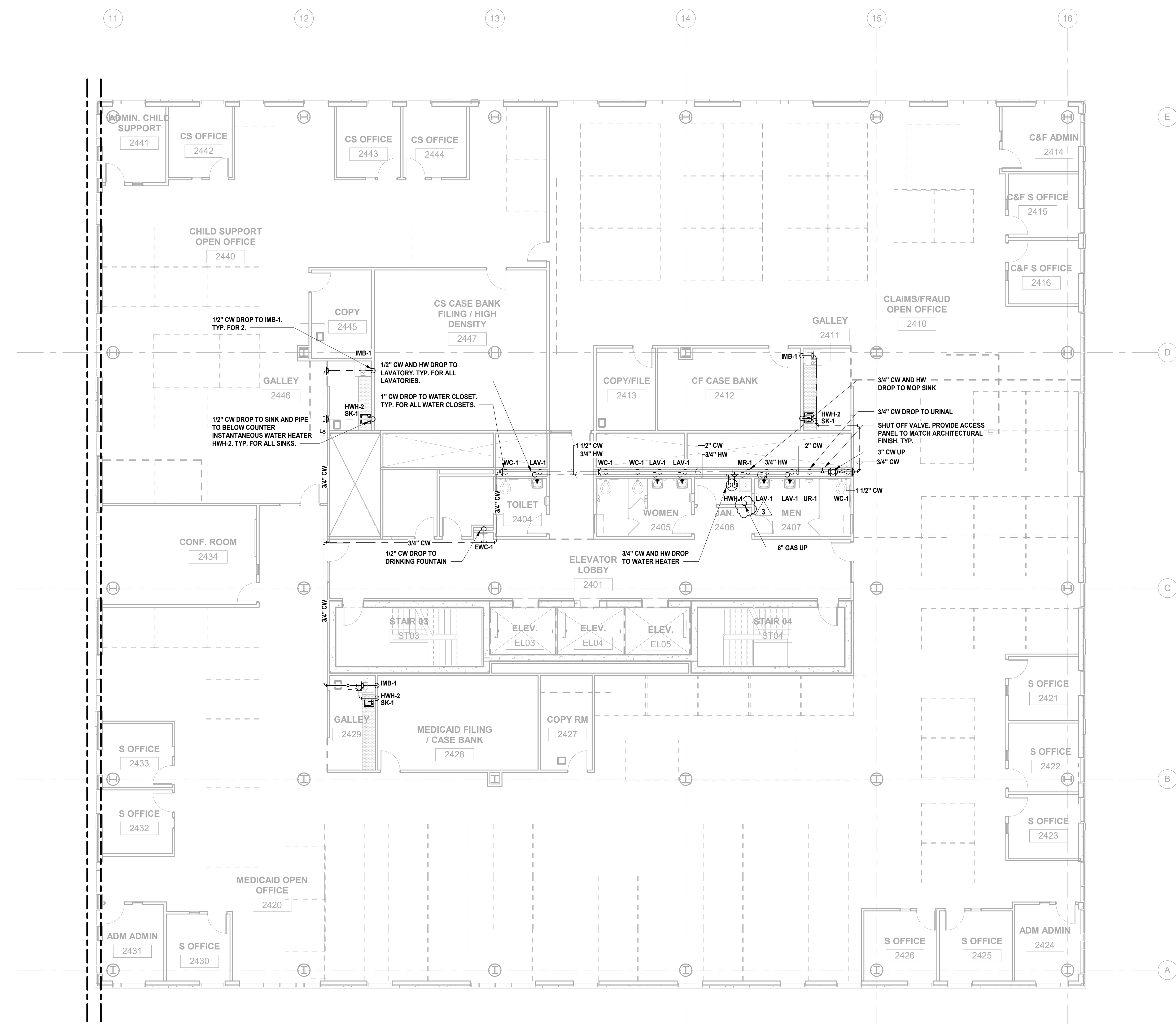
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 3 - DOMESTIC WATER & GAS PLAN

Sheet No:
P-211

1 BUILDING NO. 2 - LEVEL 3 - DOMESTIC WATER & GAS
SCALE: 1/8" = 1'-0"





No.	Date	Description
3	12.14.2023	Addendum No. 03
1	12.01.2023	Addendum No. 01
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81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202**

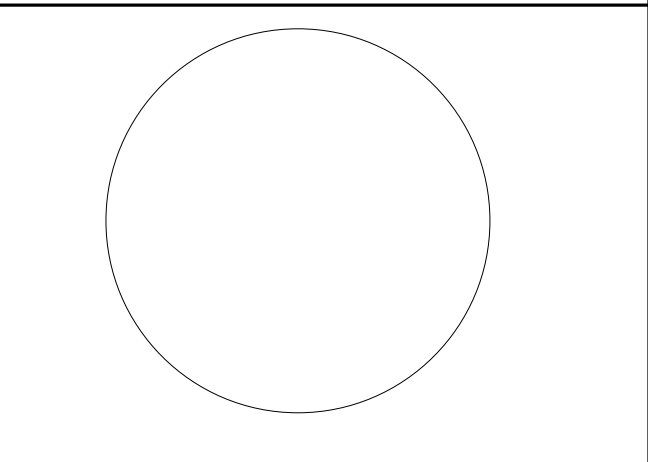
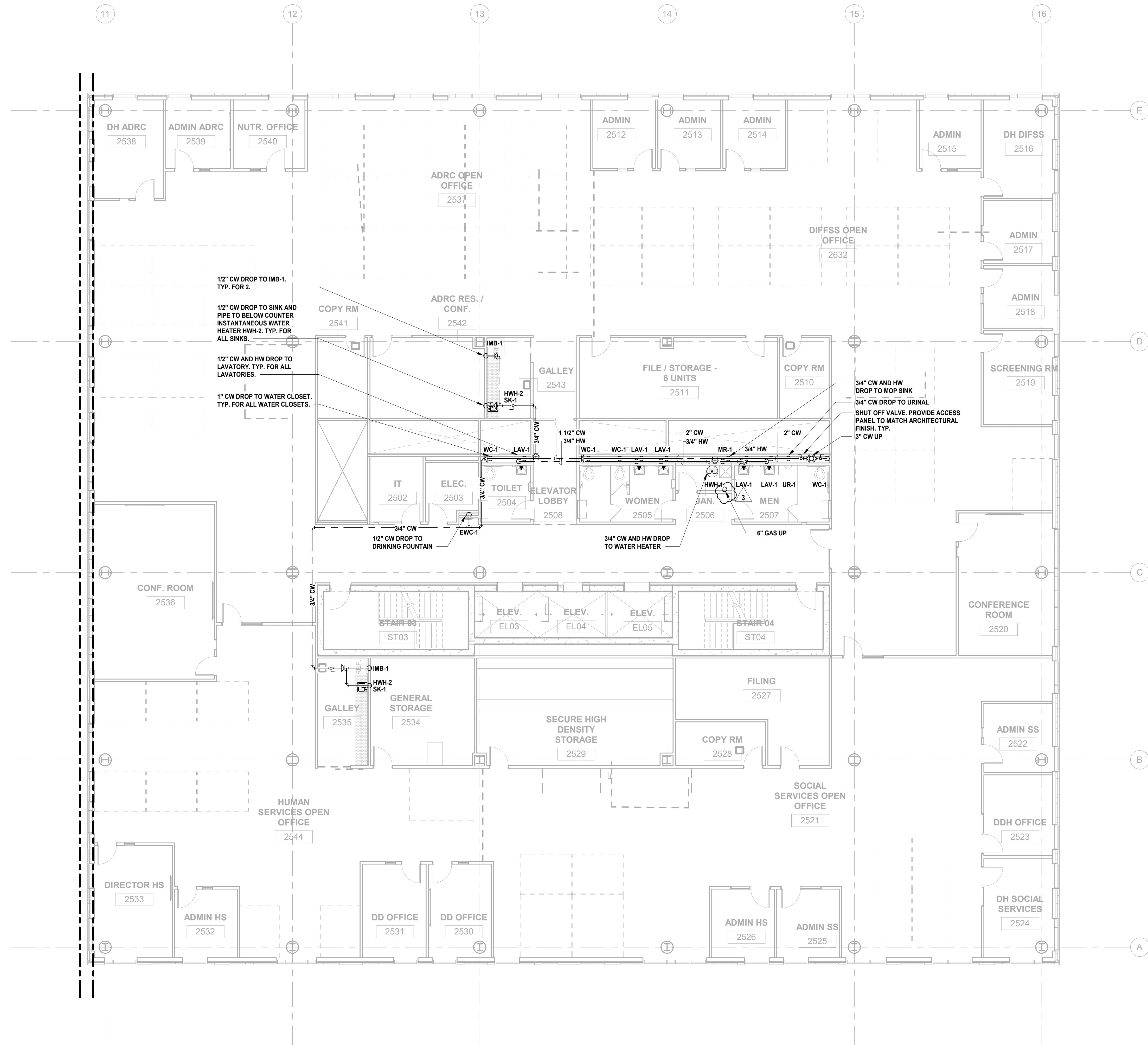
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - LEVEL 4 - DOMESTIC WATER & GAS PLAN

Sheet No:
P-212

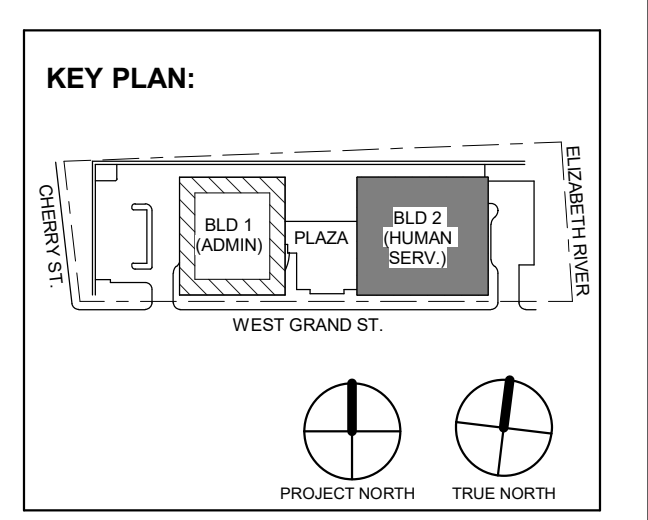
1 BUILDING NO. 2 - LEVEL 4 - DOMESTIC WATER & GAS
P-212 SCALE: 1/8" = 1'-0"





JONATHAN R. MURATORE, P.E.
NJ PROFESSIONAL ENGINEER NO. 348880007

DESIGNED BY	CRG	CRG	JRM	JRM
DRAWN BY				
CHECKED BY				
REVIEWED BY				
PROJECT NO.	DIG2301	DATE:	12.14.2023	SCALE:
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3	12.14.2023	Addendum No. 03
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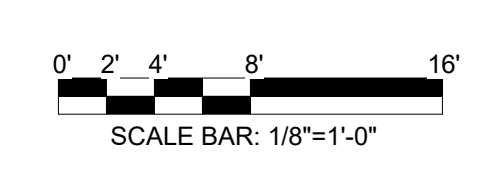
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/WPC
Checked By: JM/SH

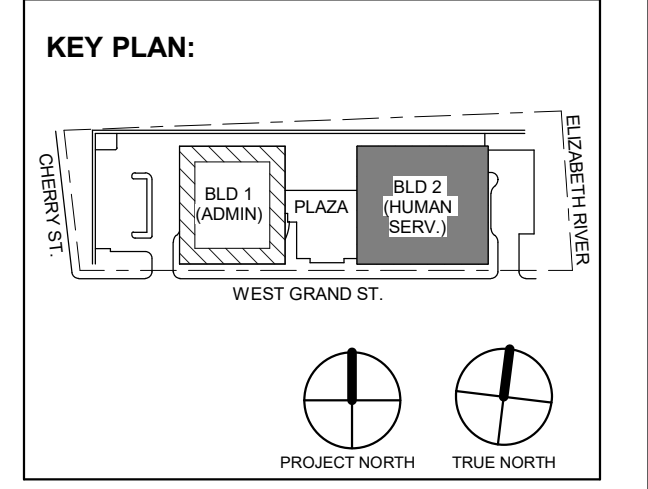
Sheet Name:
BUILDING NO. 2 - LEVEL 5 - DOMESTIC WATER & GAS PLAN

Sheet No:

P-213

1 BUILDING NO. 2 - LEVEL 5 - DOMESTIC WATER & GAS
P-213 SCALE: 1/8" = 1'-0"





3 12.14.2023 Addendum No. 03
1 12.01.2023 Addendum No. 01
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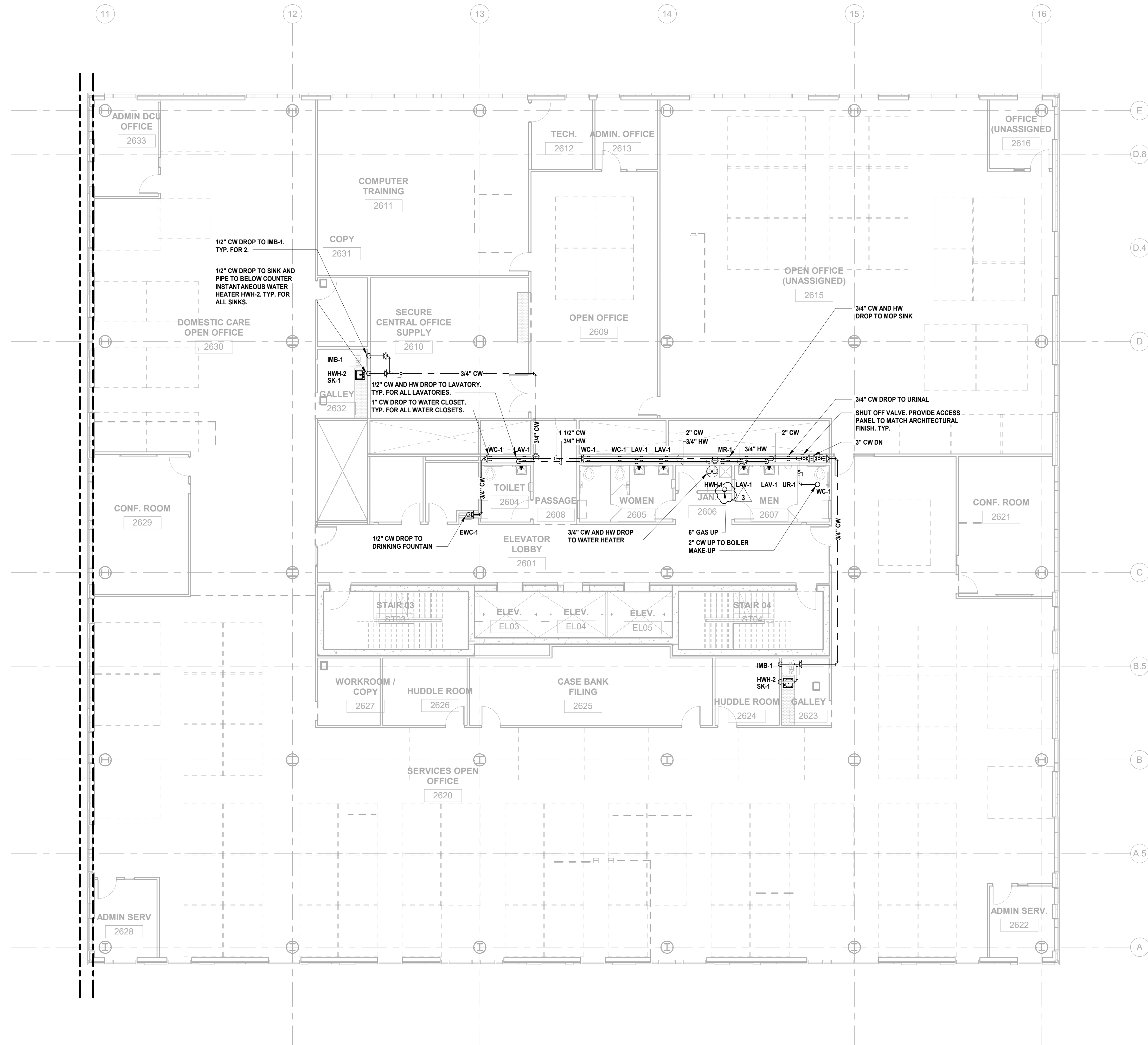
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

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

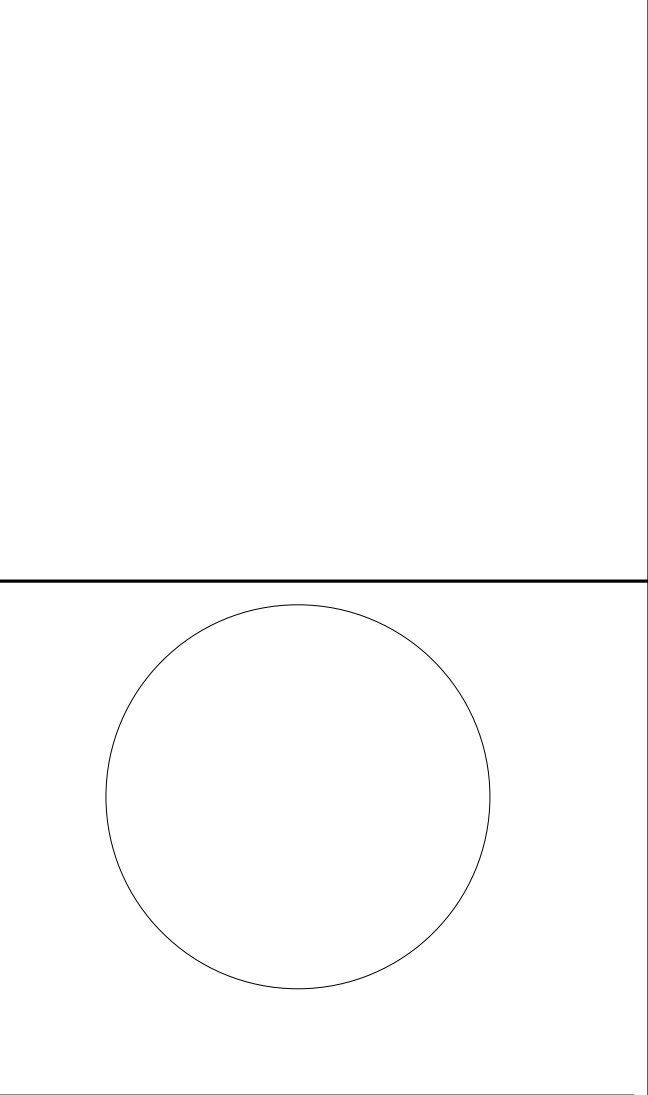
Sheet Name:
BUILDING NO. 2 - LEVEL 6 - DOMESTIC WATER & GAS PLAN

Sheet No:
P-214

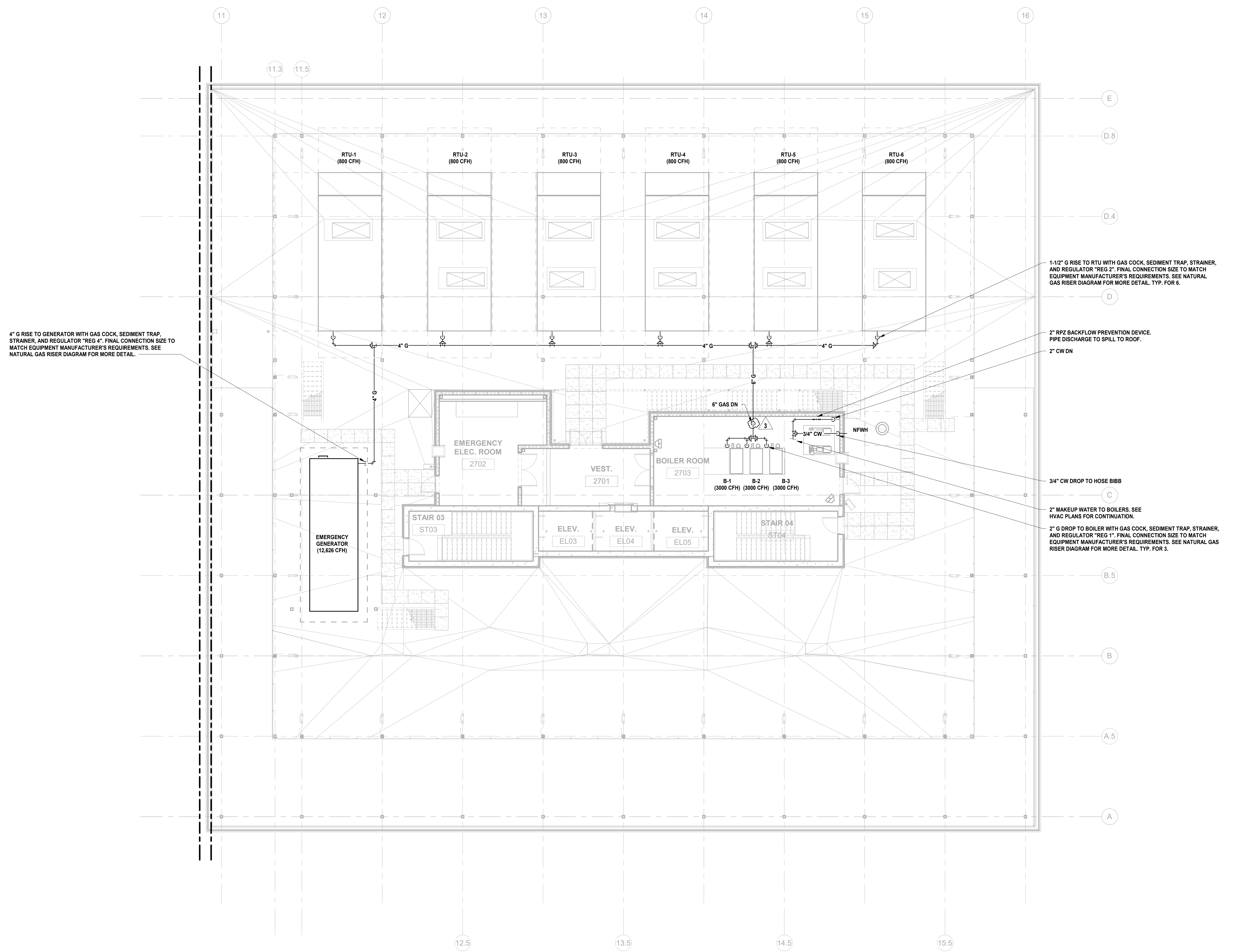


1 BUILDING NO. 2 - LEVEL 6 - DOMESTIC WATER & GAS
SCALE: 1/8" = 1'-0"





JONATHAN R. MURATORE, P.E.
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DESIGNED BY: CRG DRAWN BY: CRG CHECKED BY: JRM REVIEWED BY: JRM
PROJECT No: DIGA2301 DATE: 12.14.2023 SCALE: AS SHOWN



4" G RISE TO GENERATOR WITH GAS COCK, SEDIMENT TRAP, STRAINER, AND REGULATOR "REG 4". FINAL CONNECTION SIZE TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. SEE NATURAL GAS RISER DIAGRAM FOR MORE DETAIL.

1-1/2" G RISE TO RTU WITH GAS COCK, SEDIMENT TRAP, STRAINER, AND REGULATOR "REG 2". FINAL CONNECTION SIZE TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. SEE NATURAL GAS RISER DIAGRAM FOR MORE DETAIL. TYP. FOR 6.

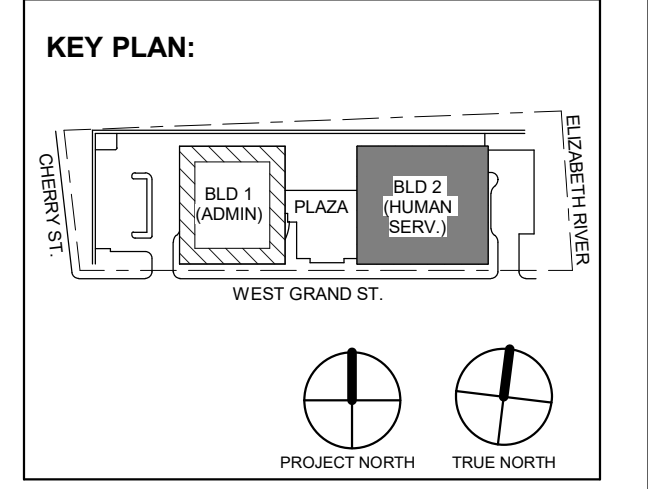
2" RPZ BACKFLOW PREVENTION DEVICE. PIPE DISCHARGE TO SPILL TO ROOF.

2" CW DN

3/4" CW DROP TO HOSE BIBB

2" MAKEUP WATER TO BOILERS. SEE HVAC PLANS FOR CONTINUATION.

2" G DROP TO BOILER WITH GAS COCK, SEDIMENT TRAP, STRAINER, AND REGULATOR "REG 1". FINAL CONNECTION SIZE TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. SEE NATURAL GAS RISER DIAGRAM FOR MORE DETAIL. TYP. FOR 3.



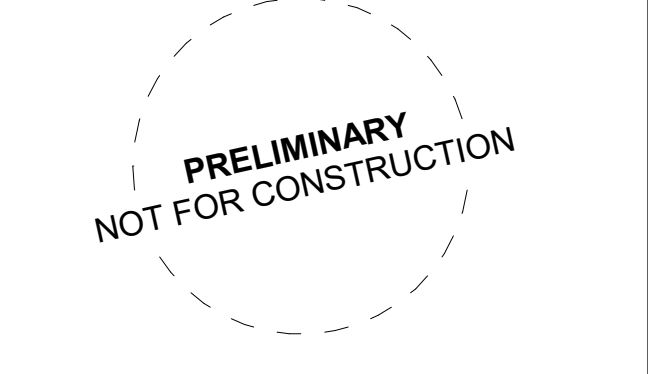
3 12.14.2023 Addendum No. 03
11.08.2023 For Public Bid

No.	Date	Description

Revisions / Issues

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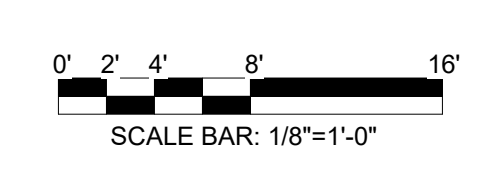
Project:
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81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
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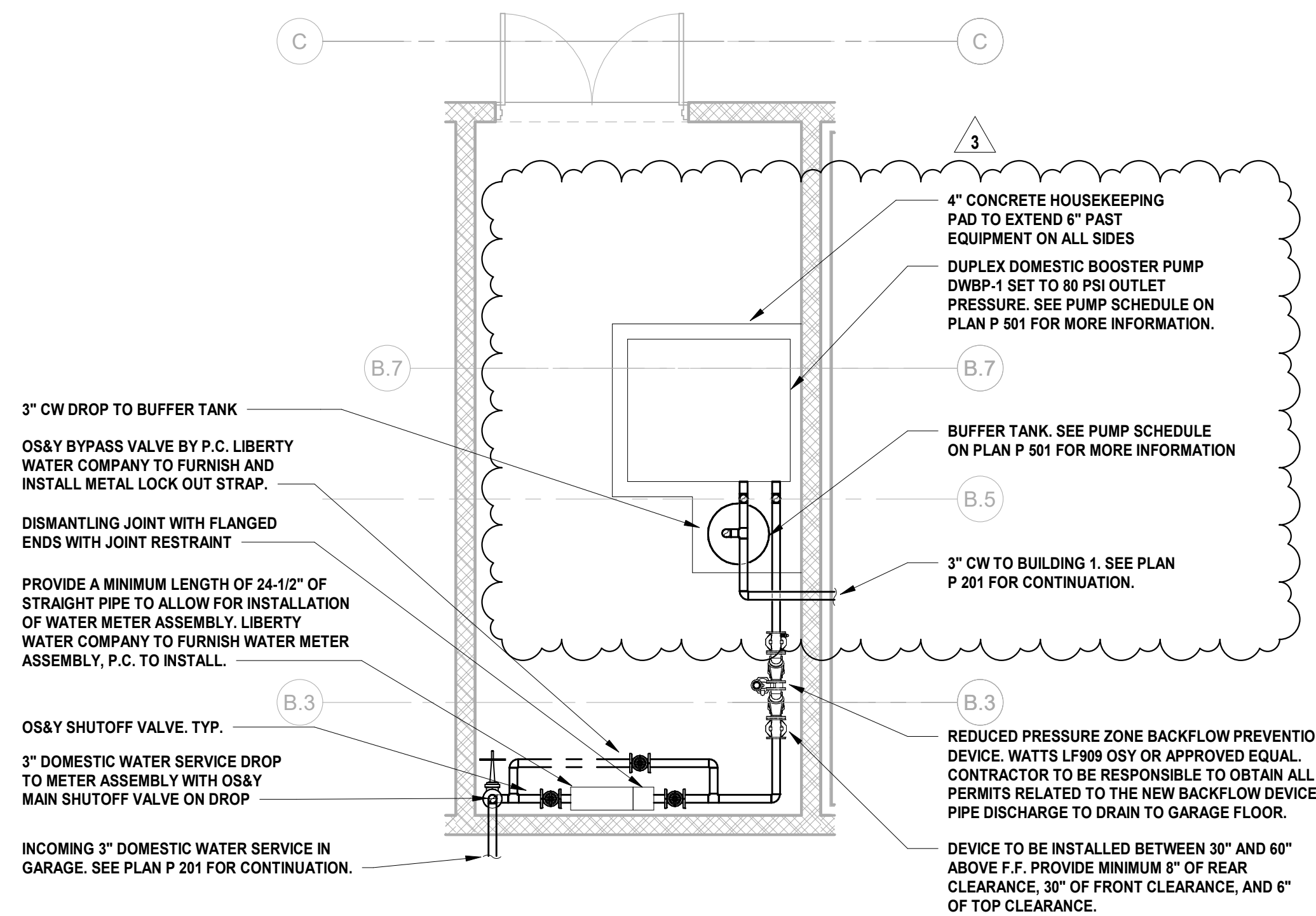
Sheet Name:
BUILDING NO. 2 - ROOF - DOMESTIC WATER & GAS PLAN

Sheet No:
P-215

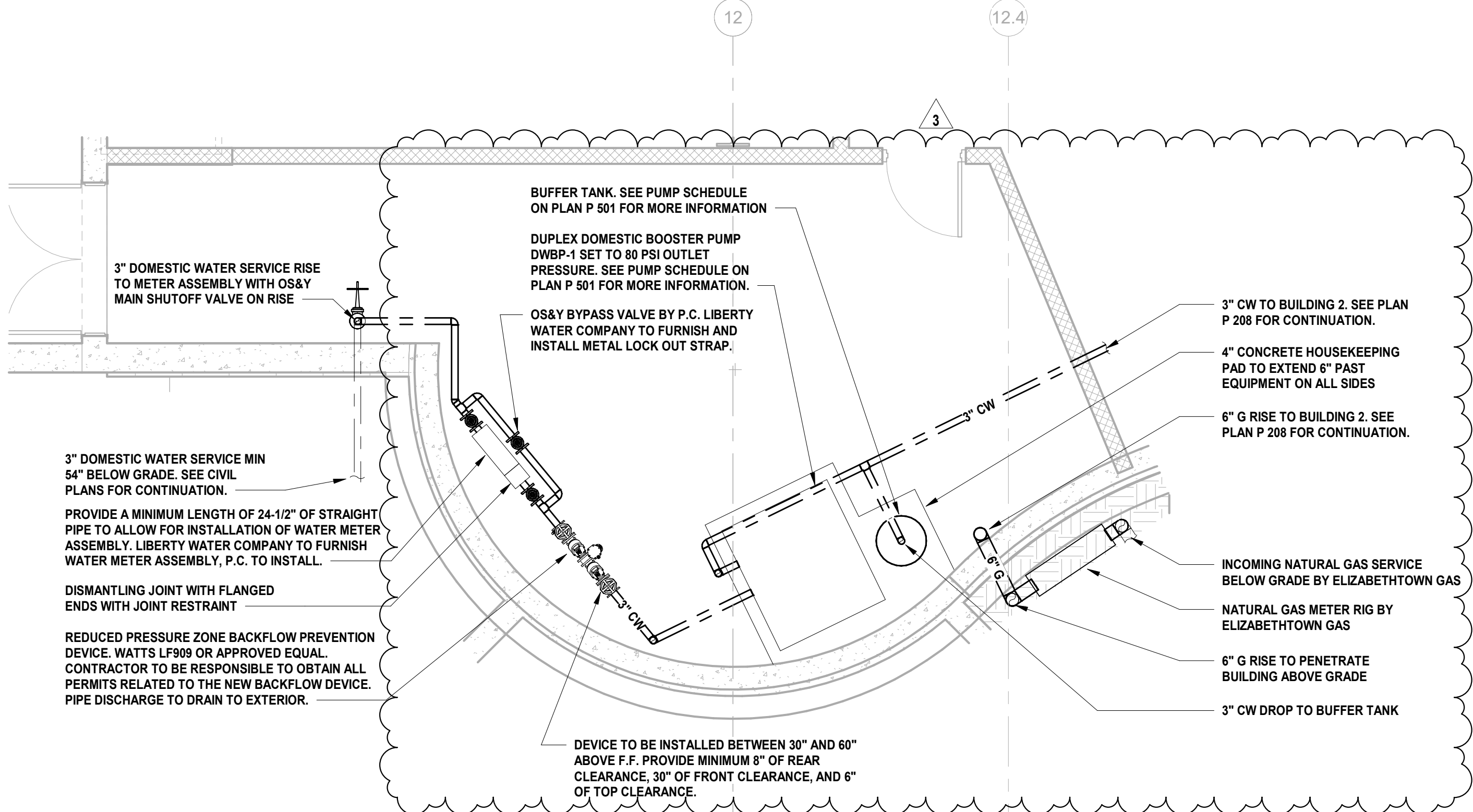
1 BUILDING NO. 2 - ROOF - DOMESTIC WATER & GAS
P-215 SCALE: 1/8" = 1'-0"



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



1 BUILDING NO. 1 - ENLARGED WATER ROOM
P-301 SCALE: 1/4" = 1'-0"
SCALE BAR: 1/4"=1'-0"



2 BUILDING NO. 2 - ENLARGED WATER ROOM
P-301 SCALE: 1/4" = 1'-0"
SCALE BAR: 1/4"=1'-0"

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DESIGNED BY: CRG DRAWN BY: CRG CHECKED BY: JRM REVIEWED BY: JRM
PROJECT No: DIGA2301 DATE: 12.14.2023 SCALE: AS SHOWN

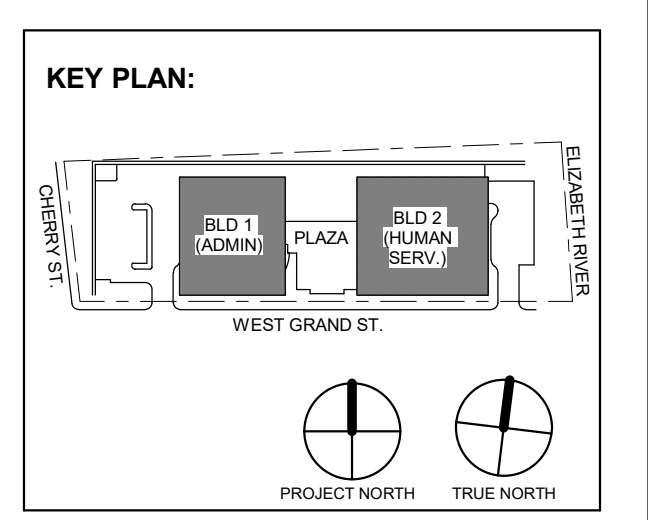


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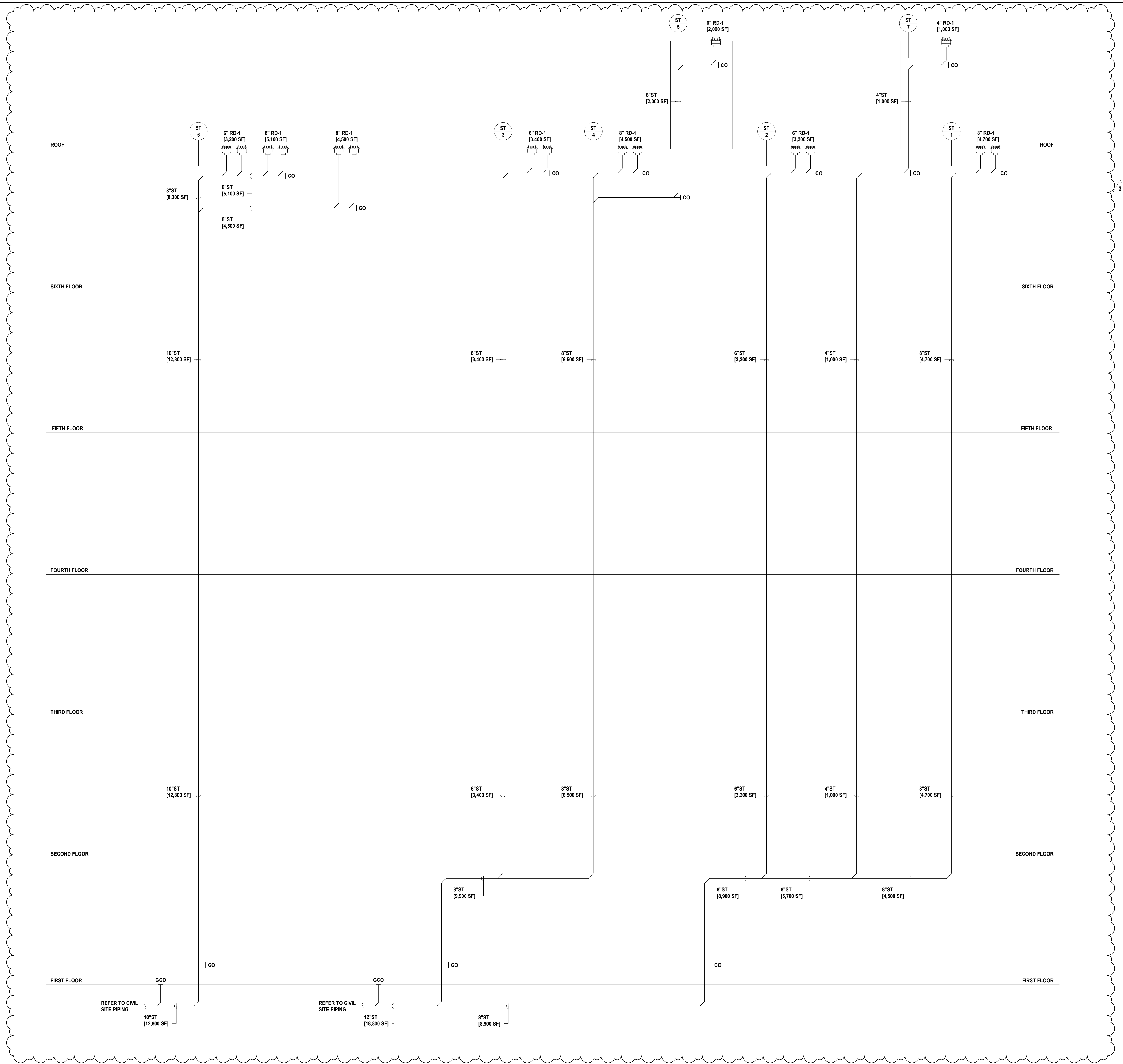
Project: UNION COUNTY GOVERNMENT COMPLEX
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Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/WPC
Checked By: JM/SH

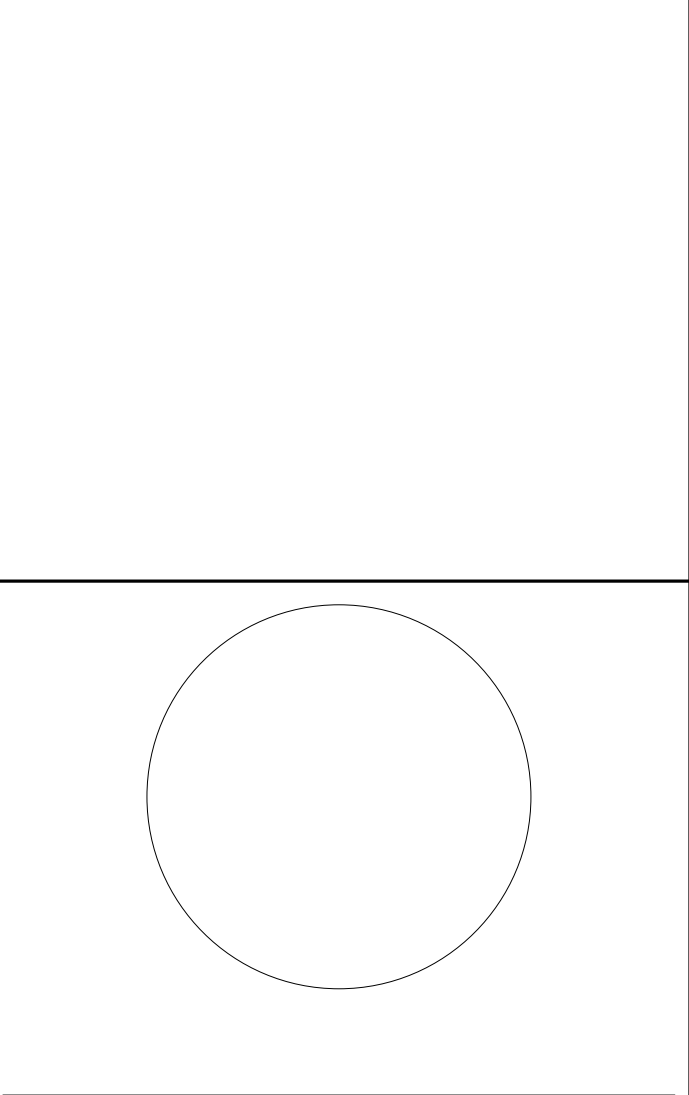
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Sheet No:

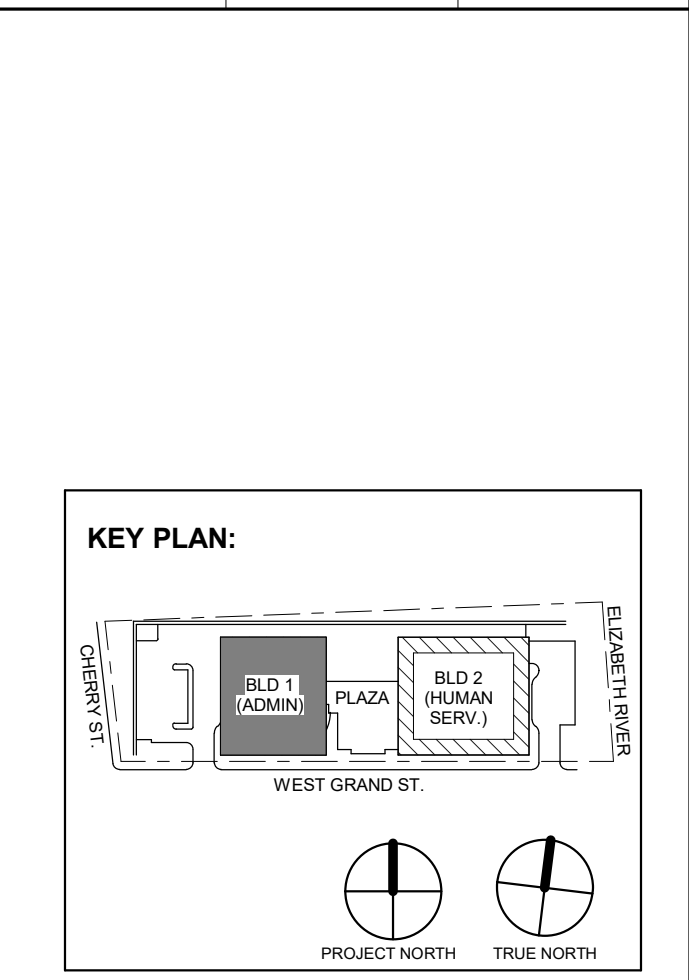
P-301



1 BUILDING NO.2 - STORMWATER RISER DIAGRAM
 SCALE: N.T.S.



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 PROJECT No: DIGA2301 DATE: 12.14.2023 SCALE: AS SHOWN



No.	Date	Description
3	12.14.2023	Addendum No. 03
	11.08.2023	For Public Bid
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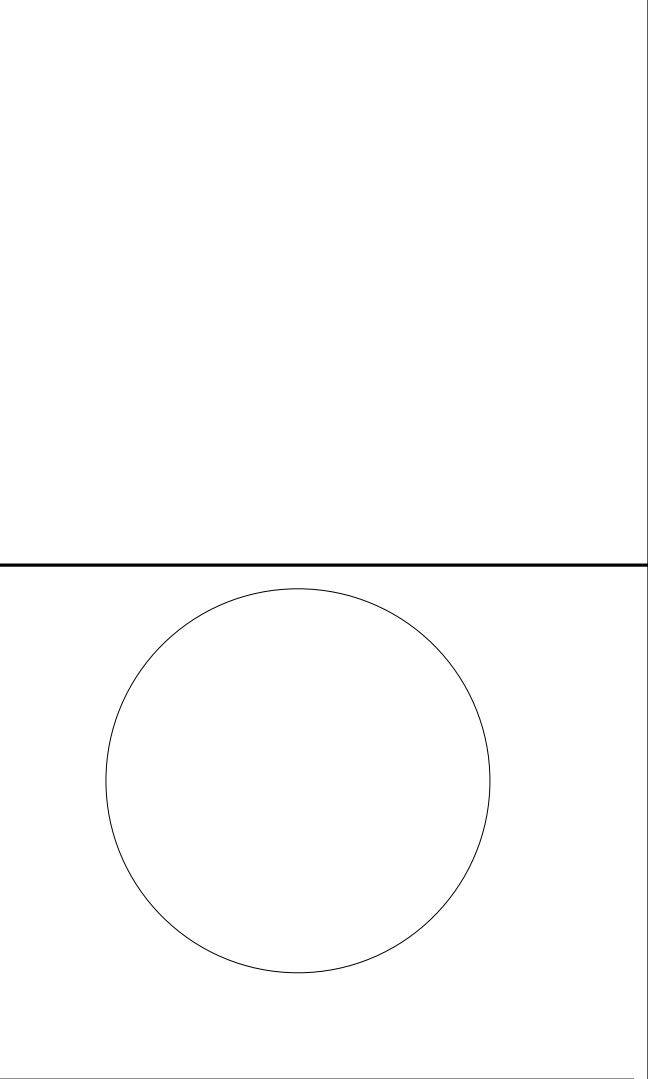
Client:
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Project:
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Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JBA/VPC
 Checked By: JM/SH

Sheet Name:
BUILDING NO. 2 - PLUMBING RISER DIAGRAM - STORMWATER

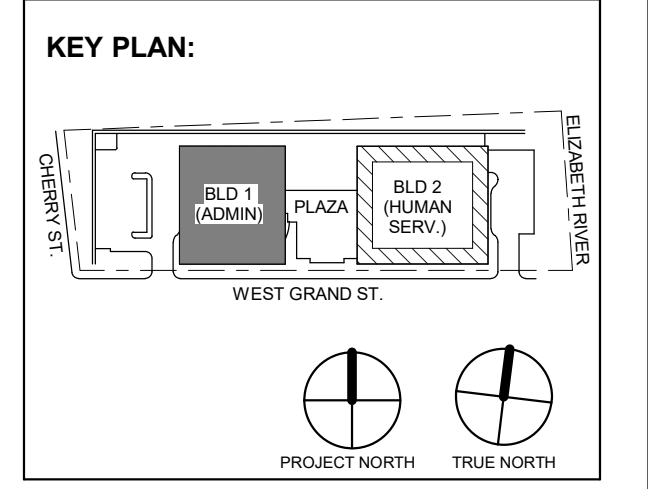
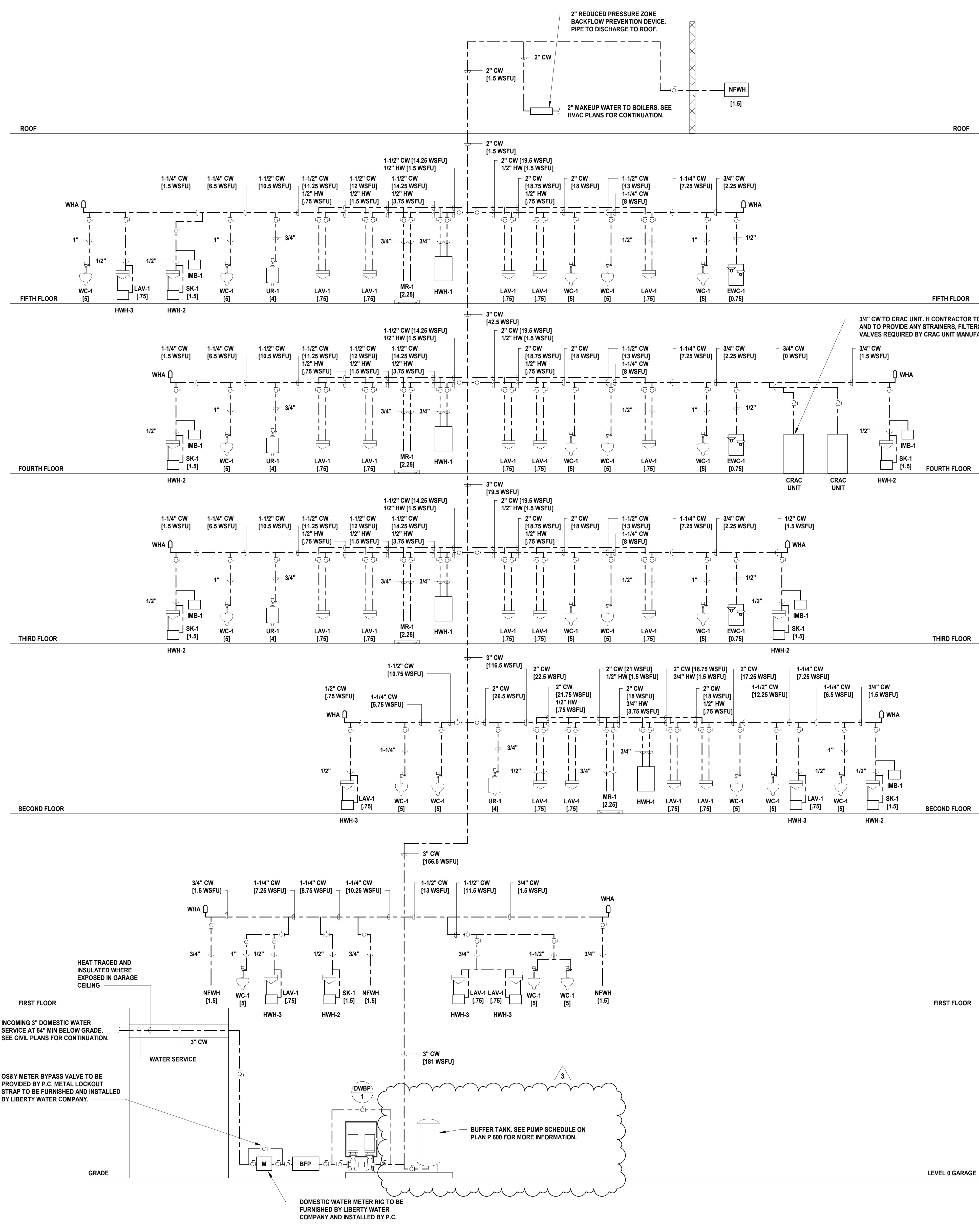
Sheet No:
P-412



JONATHAN R. MURATORE, P.E. ALTERNATE OF THE DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER

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

PROJECT No: D16A2301 DATE: 12.14.2023 SCALE: AS SHOWN



Revisions table with columns: No., Date, Description, Revisions / Issues. It lists three revisions: 3 (12.14.2023, Addendum No. 03), 1 (12.01.2023, Addendum No. 01), and 1 (11.08.2023, For Public Bid).

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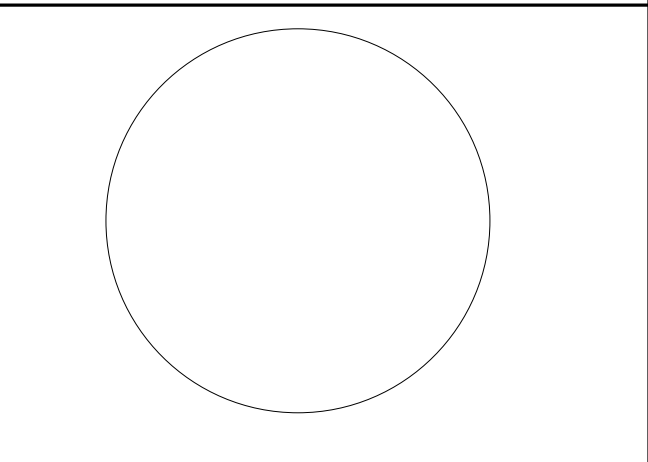
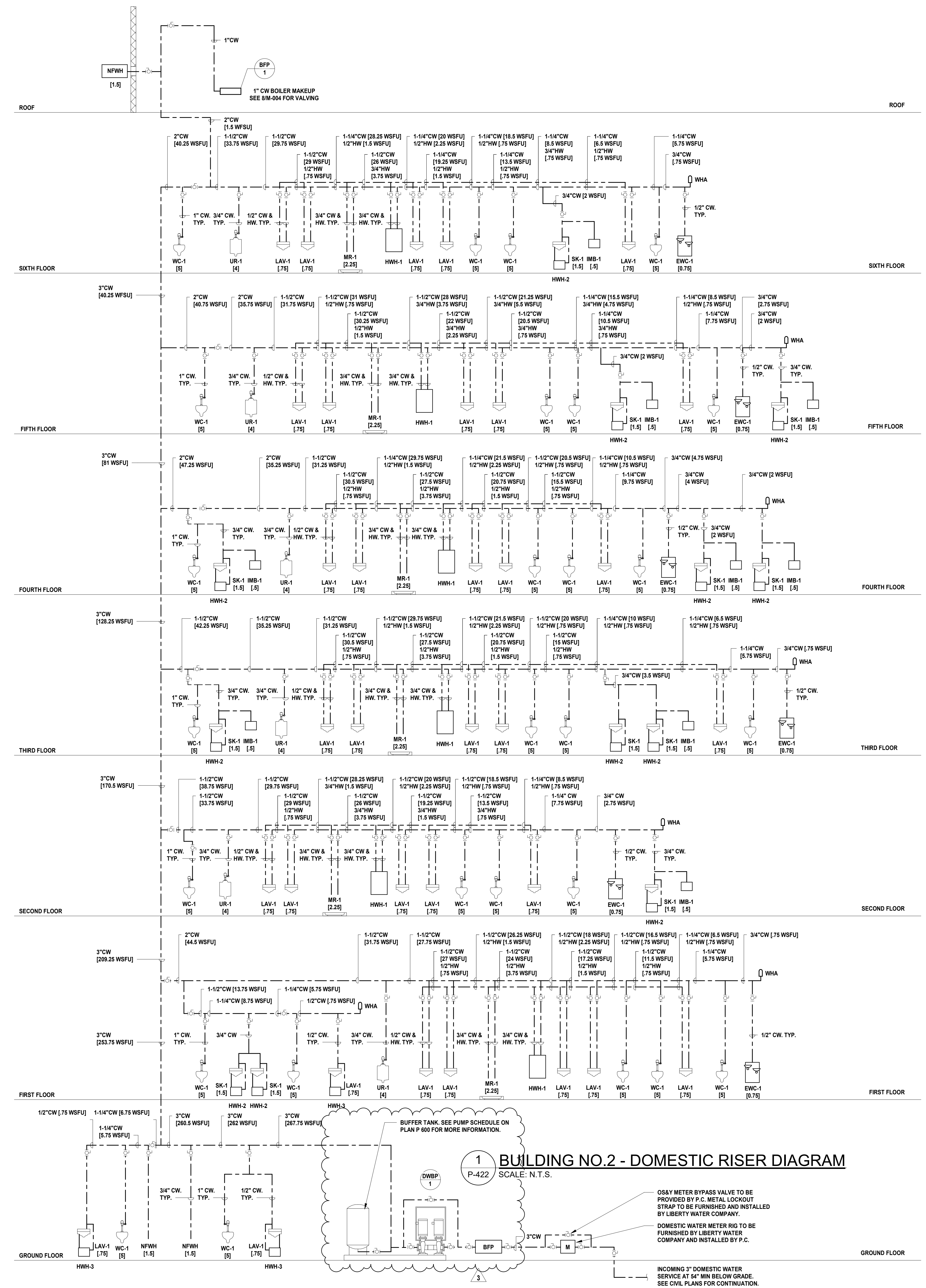
Project: UNION COUNTY GOVERNMENT COMPLEX 91 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

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

Sheet Name: BUILDING NO. 1 - PLUMBING RISER DIAGRAM - DOMESTIC WATER

Sheet No: P-421

1 BUILDING NO. 1 - DOMESTIC RISER DIAGRAM P.421 SCALE: N.T.S.



JONATHAN R. MURATORE, P.E. NJ Professional Engineer No. 348888077

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, CRG, JRM, SCALE. Values include DGA2301, 12.14.2023, AS SHOWN.

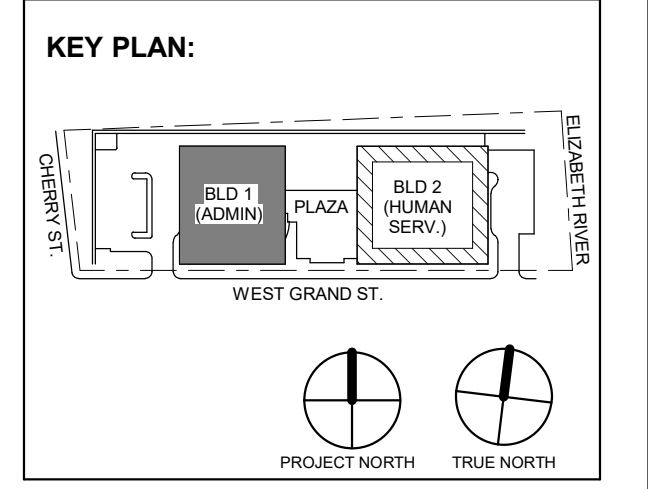


Table with columns: No., Date, Description, Revisions / Issues. It lists several revisions to the drawing.

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Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JB/AV/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - PLUMBING RISER DIAGRAM - DOMESTIC WATER

Sheet No: P-422

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

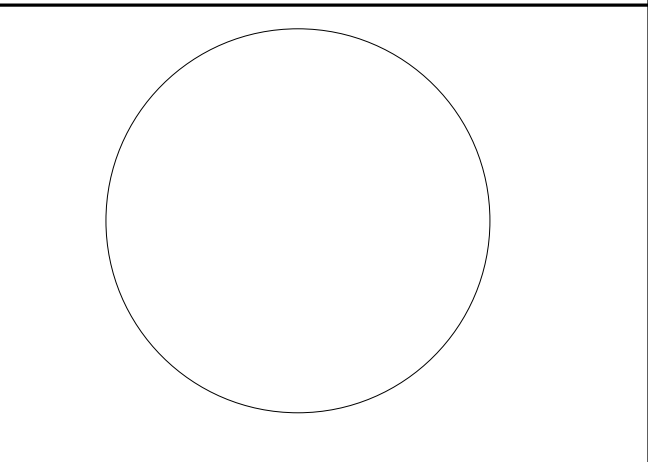
Table with columns: SYMBOL, LOCATION, CAPACITY AT INLET (CFH), INLET PRESSURE, OUTLET PRESSURE. Includes items REG-1, REG-2, REG-3, REG-4.

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.

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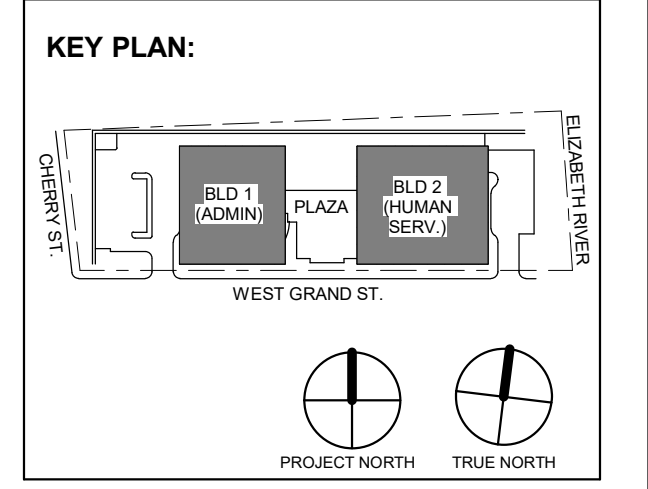
NJ Landscape Architecture Certificate No.: 24GA26019100 NJ Engineering Certificate of Authorization No.: 24GA26019100



JONATHAN R. MURATORE, P.E. PROFESSIONAL ENGINEER No. 348888377

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

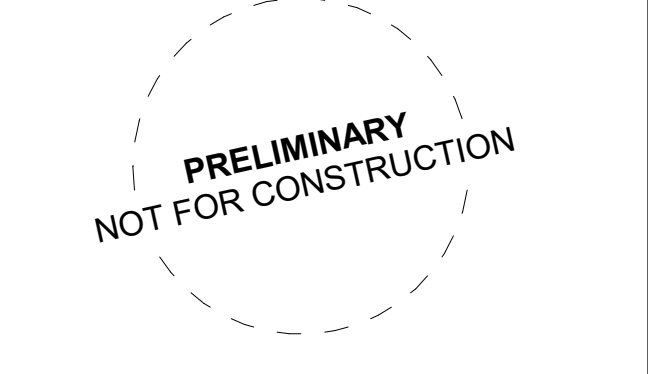
PROJECT No: DGA2301 DATE: 12.14.2023 SCALE: AS SHOWN



3 12.14.2023 Addendum No. 03 1 12.01.2023 Addendum No. 01 11.08.2023 For Public Bid

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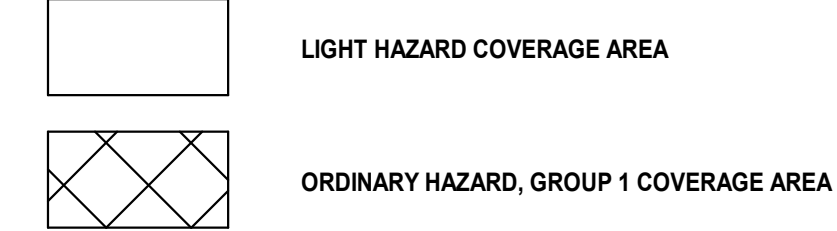
Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

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

Sheet Name: PLUMBING SCHEDULES

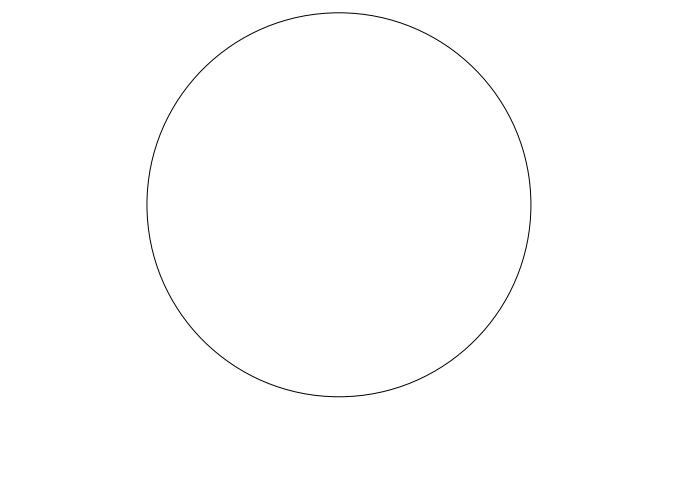
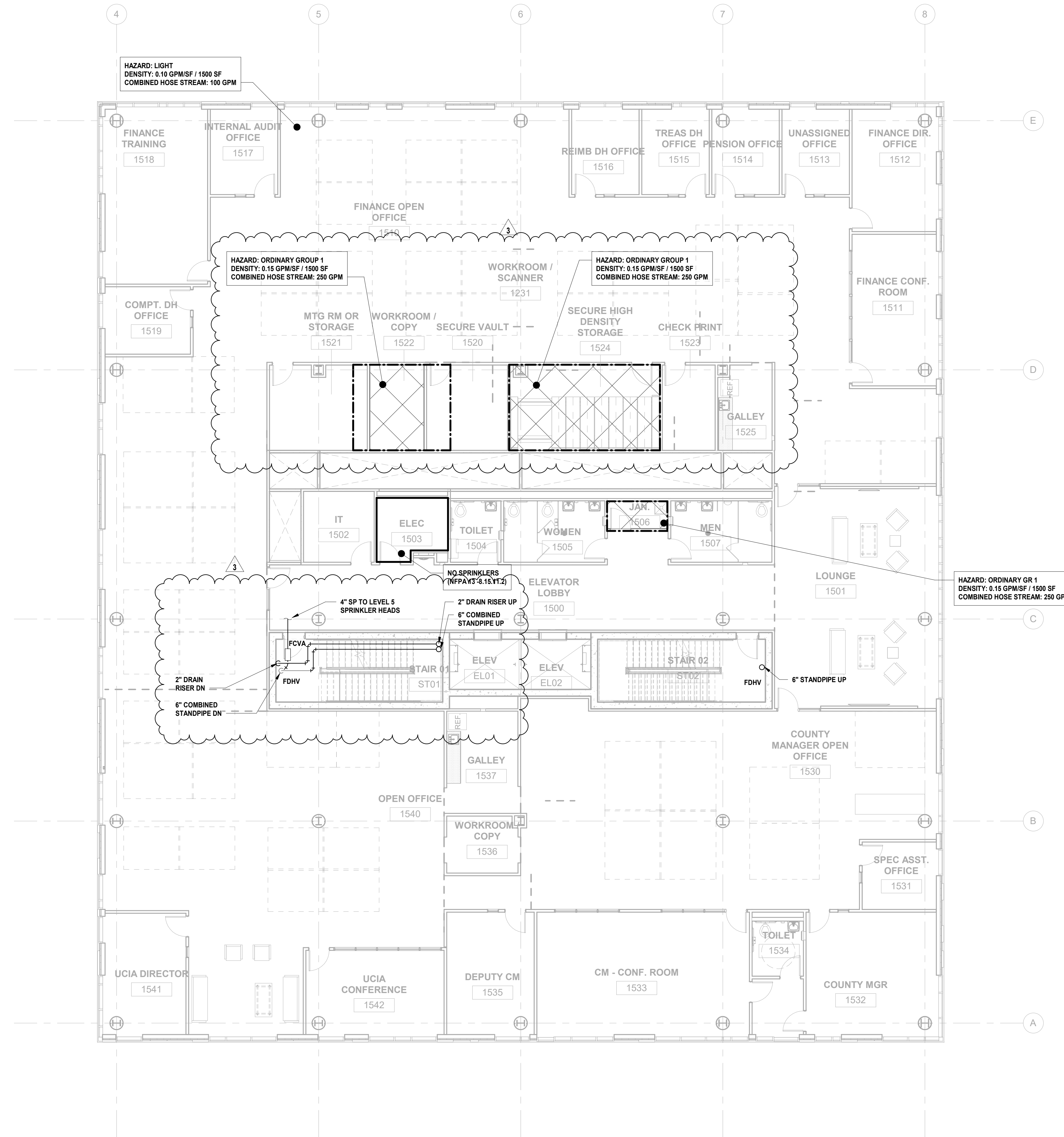
Sheet No: P-501

FIRE PROTECTION LEGEND:



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.



KEY PLAN:

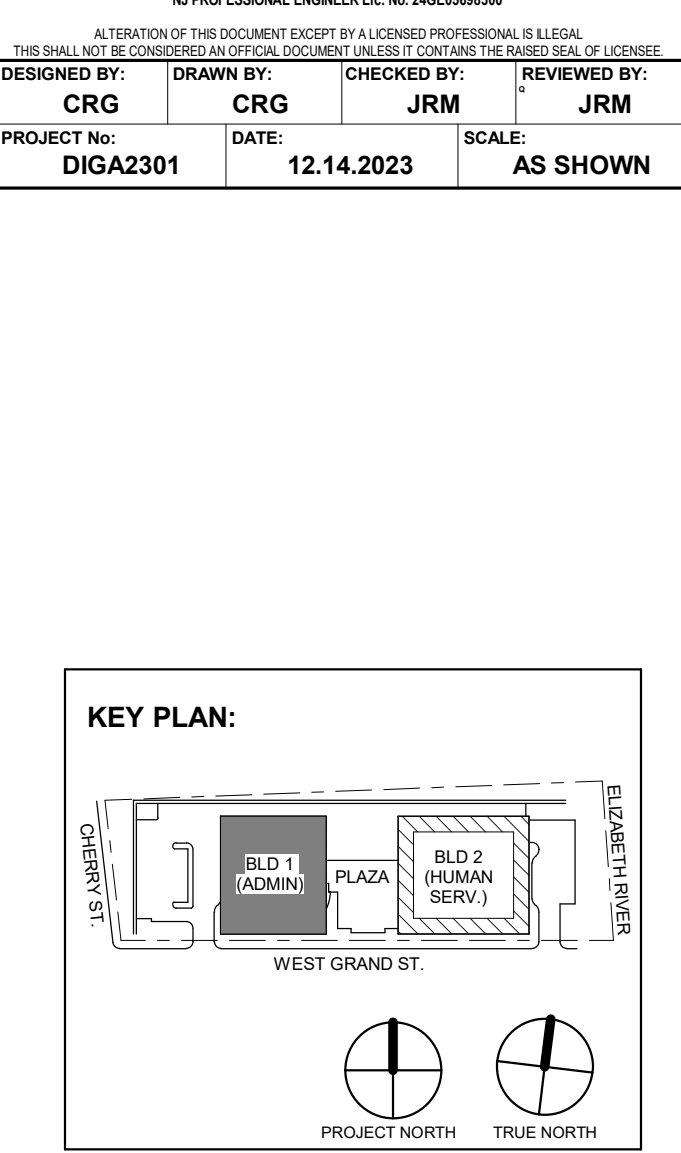


Table with 3 columns: No., Date, Description. Row 1: 3, 12.14.2023, Addendum No. 03. Row 2: 11.08.2023, For Public Bid.

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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/VPC Checked By: JMSH

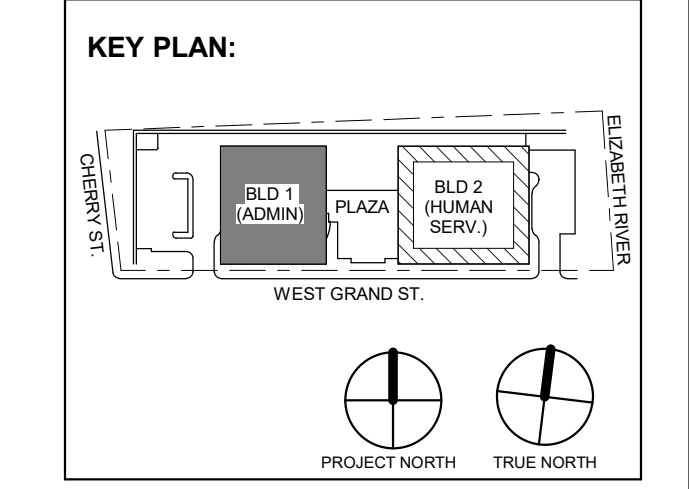
Sheet Name: BUILDING NO. 1 - LEVEL 5 - FIRE PROTECTION PLAN

Sheet No:

FP-106

1 BUILDING NO. 1 - LEVEL 5 - FIRE PROTECTION SCALE: 1/8" = 1'-0"





3 12.14.2023 Addendum No. 03
11.08.2023 For Public Bid

No.	Date	Description

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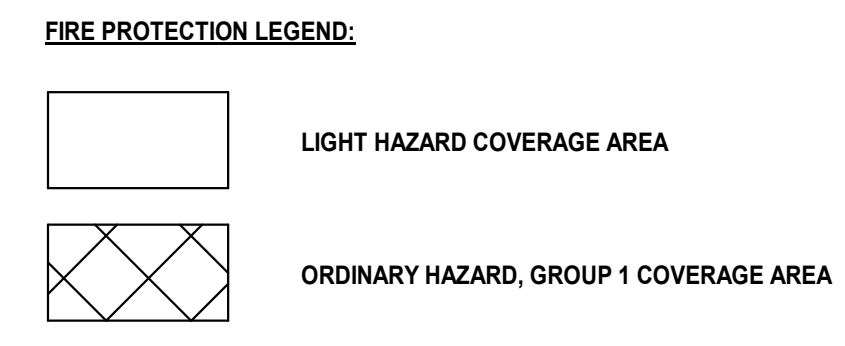
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CITY OF ELIZABETH
NEW JERSEY, 07202

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

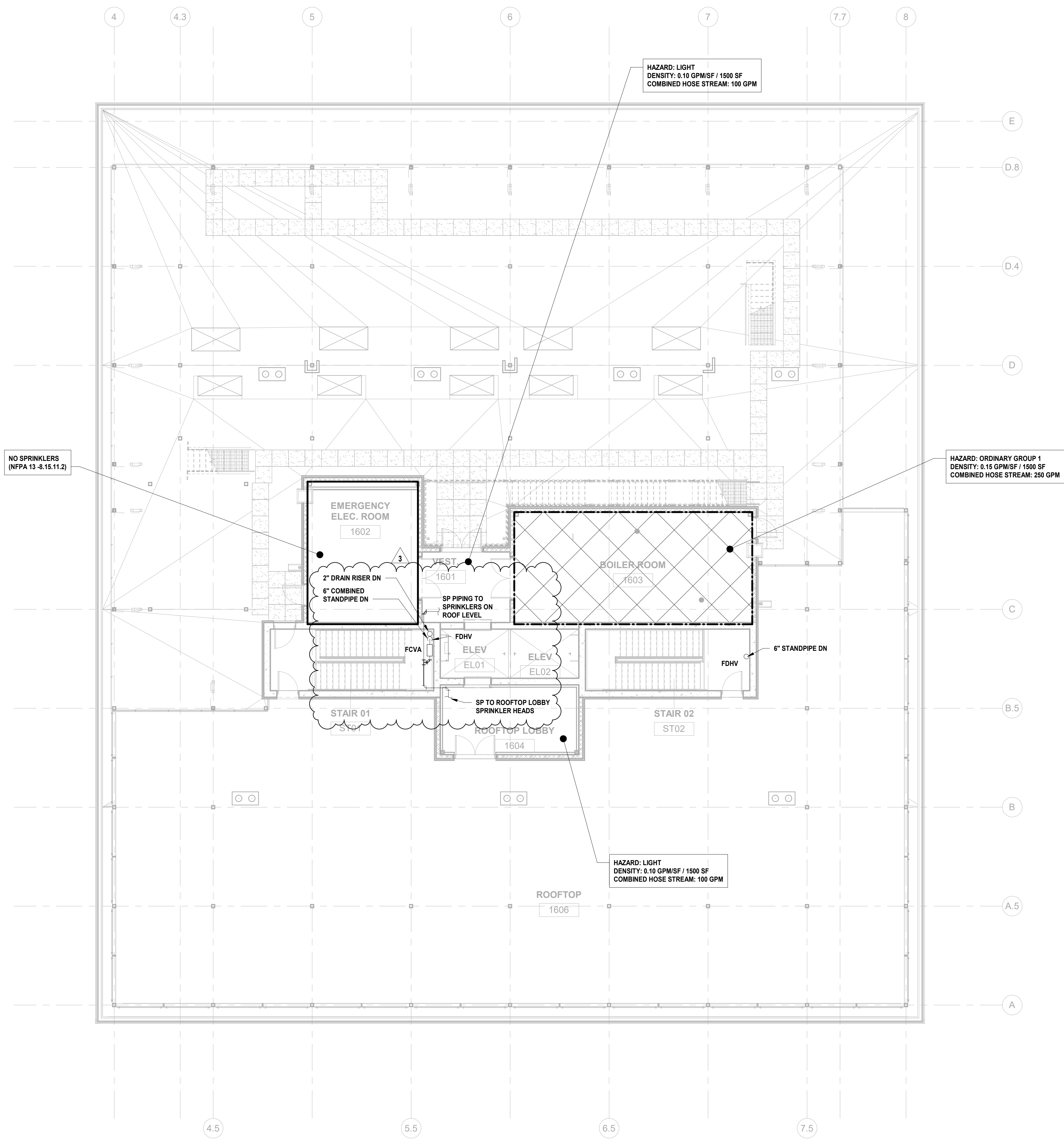
Sheet Name:
BUILDING NO. 1 - ROOF - FIRE PROTECTION PLAN

Sheet No:

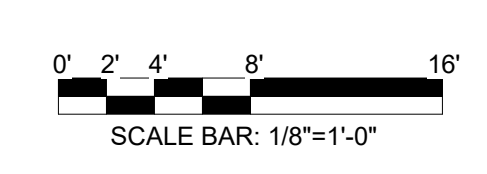
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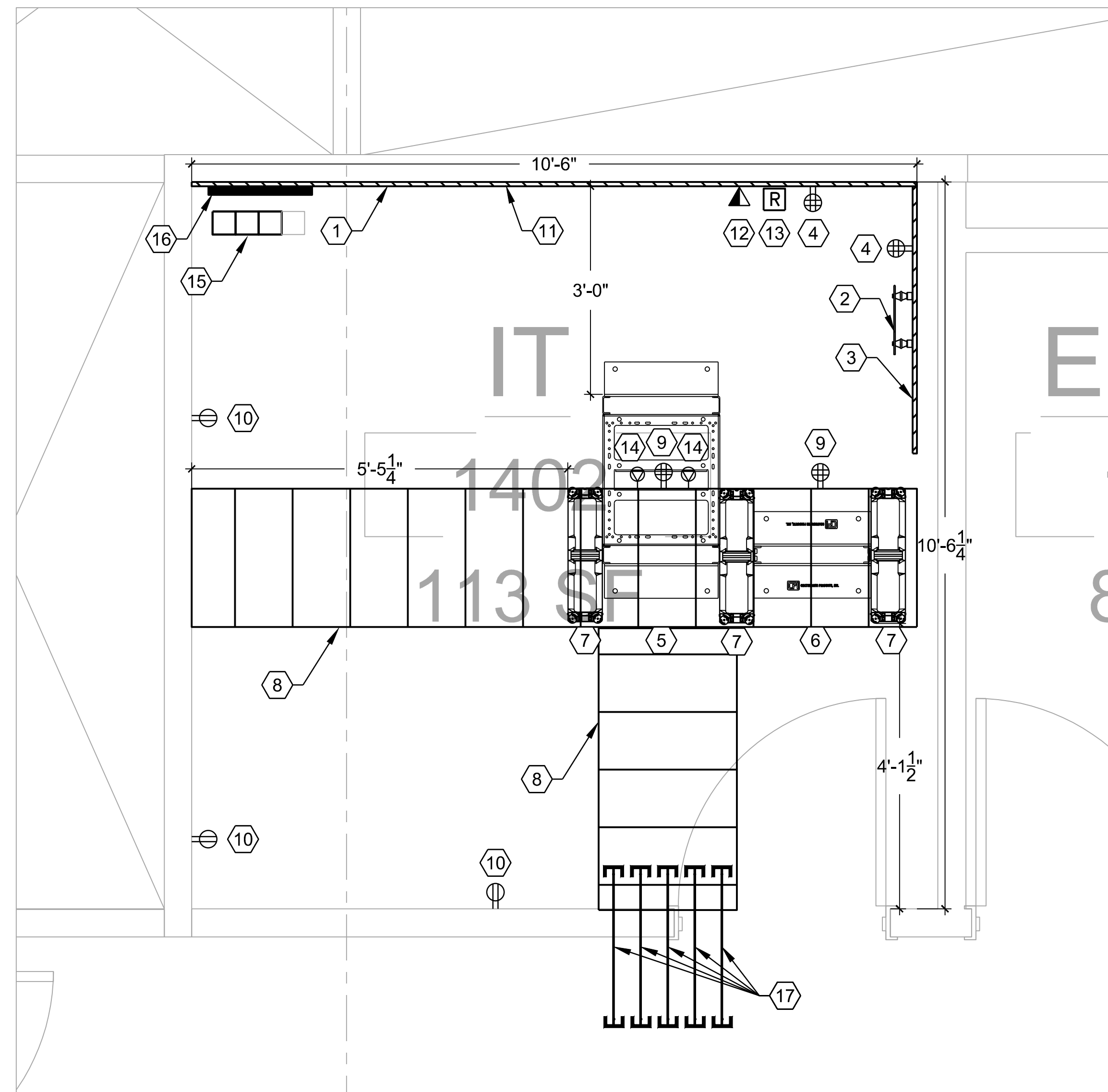


- FIRE PROTECTION GENERAL NOTES:**
1. REFER TO FIRE PROTECTION LEAD SHEET, FP-001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND PROJECT SCOPE DESCRIPTIONS FOR THIS PROJECT.
 2. ALL SYSTEMS SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS BY THE FIRE PROTECTION CONTRACTOR.
 3. THE FIRE PROTECTION 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 - ROOF - FIRE PROTECTION
FP-107 SCALE: 1/8" = 1'-0"





1 BUILDING 1 LEVEL 4 IDF ROOM PART PLAN
SCALE: 3/4"=1'-0"

RU	4-Post Rack IDF14/B	2-Post Rack IDF14/A
45	2U Horizontal Cable Manager	2U Horizontal Cable Manager
44		1U Fiber Enclosure - MDF Ties
43		1U Filler Panel
42		24-Port Cat6A PP (Backbone from MDF)
41		24-Port Cat5e PP (Cat5e voice tie)
40		48-Port Cat6A PP
39		Horizontal Cabling
38		48-Port Cat6A PP
37		Horizontal Cabling
36		48-Port Cat6A PP
35		Horizontal Cabling
34		48-Port Cat6A PP
33		Horizontal Cabling
32		48-Port Cat6A PP
31		Horizontal Cabling
30		48-Port Cat6A PP
29		Horizontal Cabling
28		48-Port Cat6A PP
27		Horizontal Cabling
26		48-Port Cat6A PP
25		Horizontal Cabling
24		48-Port Cat6A PP
23		Horizontal Cabling
22		
21		
20		
19		Contractor to Determine Exact Quantity of Required Patch Panels
18		
17		
16		
15		
14		
13		
12		
11		
10		
9		
8		
7		
6	2U Horizontal Cable Manager	
5	3KVA UPS	
4		
3	3KVA UPS	
2		2U Horizontal Cable Manager
1		

2 BUILDING 1 LEVEL 4 IDF RACK ELEVATIONS
SCALE: NONE

TELECOMMUNICATIONS KEY NOTES

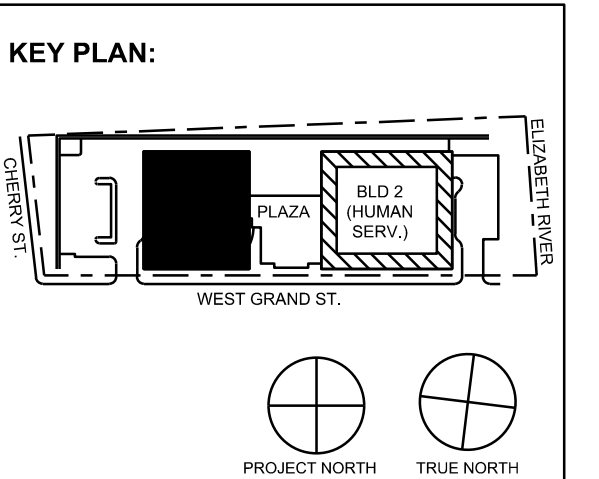
- 1 3/4" FIRE RETARDANT PLYWOOD WALLFIELD BY G.C.
- 2 TELECOMMUNICATIONS GROUNDING BUS BAR INSTALLED AT -7'-0" AFF BY E.C.
- 3 WALLFIELD SPACE RESERVED FOR PROVIDER TELECOMMUNICATIONS DEMARCS & 110-BLOCKS.
- 4 DEDICATED NEMA 5-20R QUAD RECEPTACLE BY E.C.
- 5 CPI 4-POST IT EQUIPMENT RACK - 15053-703
- 6 CPI 2-POST IT EQUIPMENT RACK - 68353-703
- 7 6" WIDE DOUBLE-SIDED VERTICAL CABLE MANAGERS - 32622-703
- 8 24" WIDE OVERHEAD LADDER RACK INSTALLED AT -7'-6" AFF. CONTRACTOR TO FURNISH & INSTALL TWO (2) RADIUS DROPS ABOVE EACH CABINET & ONE (1) RADIUS DROP WHERE THE LADDER RACK MEETS A WALL.
- 9 NEMA 5-20R QUAD RECEPTACLE LADDER RACK MOUNTED FOR RACK POWER BY E.C.
- 10 NEMA 5-20 DUPLEX RECEPTACLE FOR CONVENIENCE POWER BY E.C.
- 11 WALLFIELD SPACE RESERVED FOR SECURITY PANELS
- 12 2-PORT DATA OUTLET INSTALLED AT 96" AFF FOR SECURITY PANEL CONNECTIVITY.
- 13 ANALOG FORM C FIRE ALARM DOOR RELEASE RELAY BY FIRE ALARM VENDOR
- 14 DEDICATED NEMA L5-30R RECEPTACLE MOUNTED TO LADDER RACK FOR UPS BY E.C.
- 15 THREE (3) EZ-PATH SERIES 44+ FIRE-STOPS W/ MODULAR FLOOR GRID BETWEEN STACKED IT ROOMS BY G.C.
- 16 18" WIDE LADDER RACK MOUNTED VERTICALLY TO WALL TO SUPPORT RISER CABLING.
- 17 4" EZ PATH SLEEVE FOR HORIZONTAL CABLING

NOTES:

- ELECTRICAL SYMBOLS SHOWN FOR REFERENCE AND COORDINATION ONLY.
- ALL ELECTRICAL OUTLETS AND GROUNDING BY ELECTRICAL CONTRACTOR.

MEP/ARCHITECTURAL NOTES

- PLEASE REFER TO IT ROOM LAYOUT AND PROVIDE/PROVISION THE FOLLOWING:
1. PROVIDING LIGHTING IN FRONT OF AND BACK OF RACKS.
 2. PROVIDE SPRINKLER HEADS IN FRONT AND BACK OF RACKS AND CABINETS, AVOID ANY SPRINKLER HEADS ABOVE RACKS, CABINETS OR LADDER RACK.
 3. AG UNIT TO BE LOCATED OUTSIDE OF IT ROOM IF POSSIBLE IF NOT PROVIDE DRIP PAN UNDER UNIT AND UNIT NOT TO BE LOCATED ABOVE RACKS AND CABINETS.
 4. PROVIDE FIRE ALARM RELAY AT SECURITY WALL LOCATION.



- 12/14/2023 ISSUED FOR ADDENDUM 3
- 11/30/2023 ISSUED FOR ADDENDUM 1
- 11/09/2023 ISSUED FOR PUBLIC BID
- 09/29/2023 ISSUED FOR REVIEW

No.	Date	Description
Revisions / Issues		

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. Verozob, AIA
NJ RA #A100827190



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 - BUILDING 1
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 1182.00
Date: 11/08/23
Drawn By: MD
Checked By: DJ

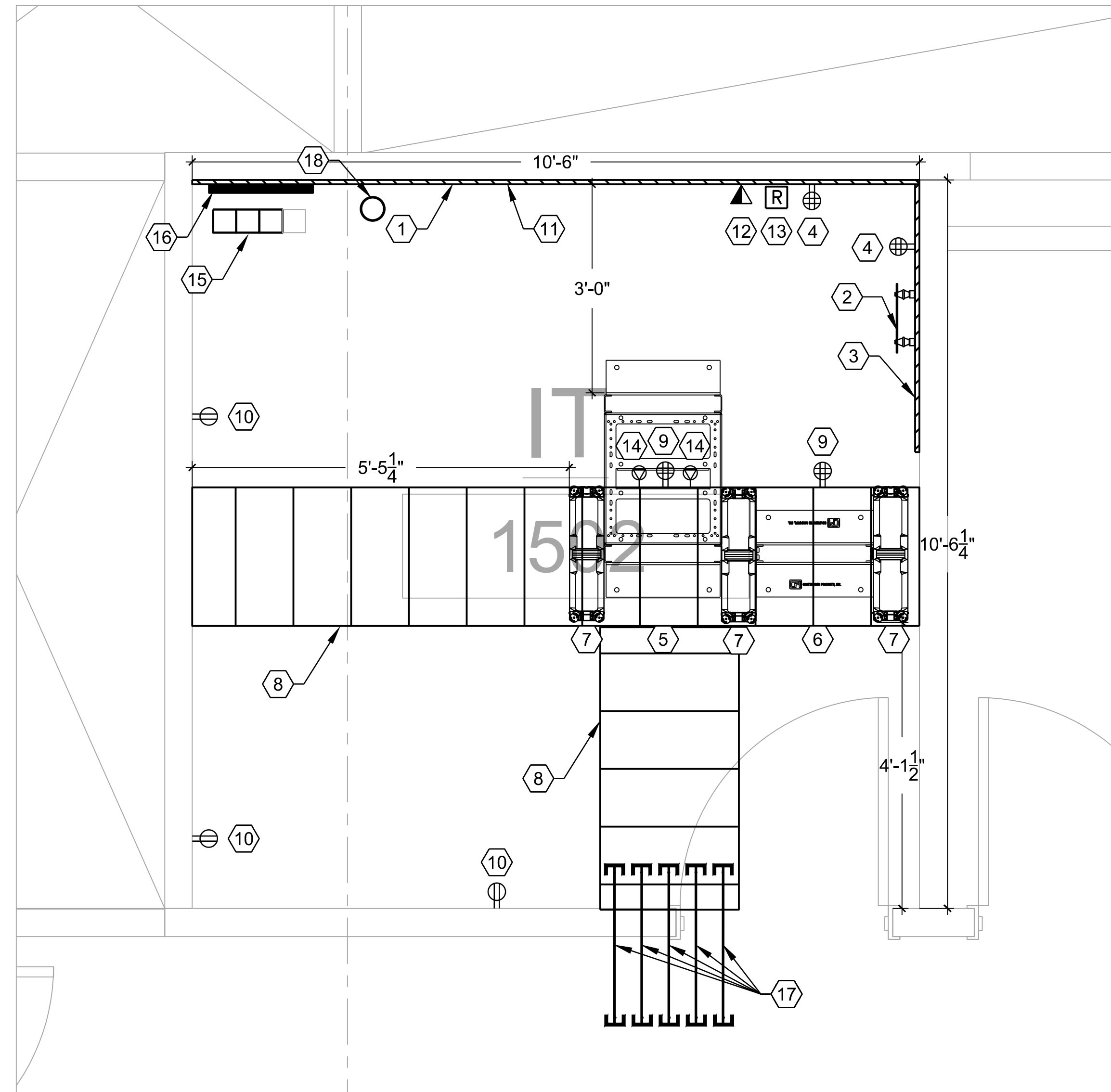
Sheet Name:
TELECOMMUNICATIONS LEVEL 4 IT ROOM PART PLAN

Sheet No: _____ DOB NOW JOB # _____

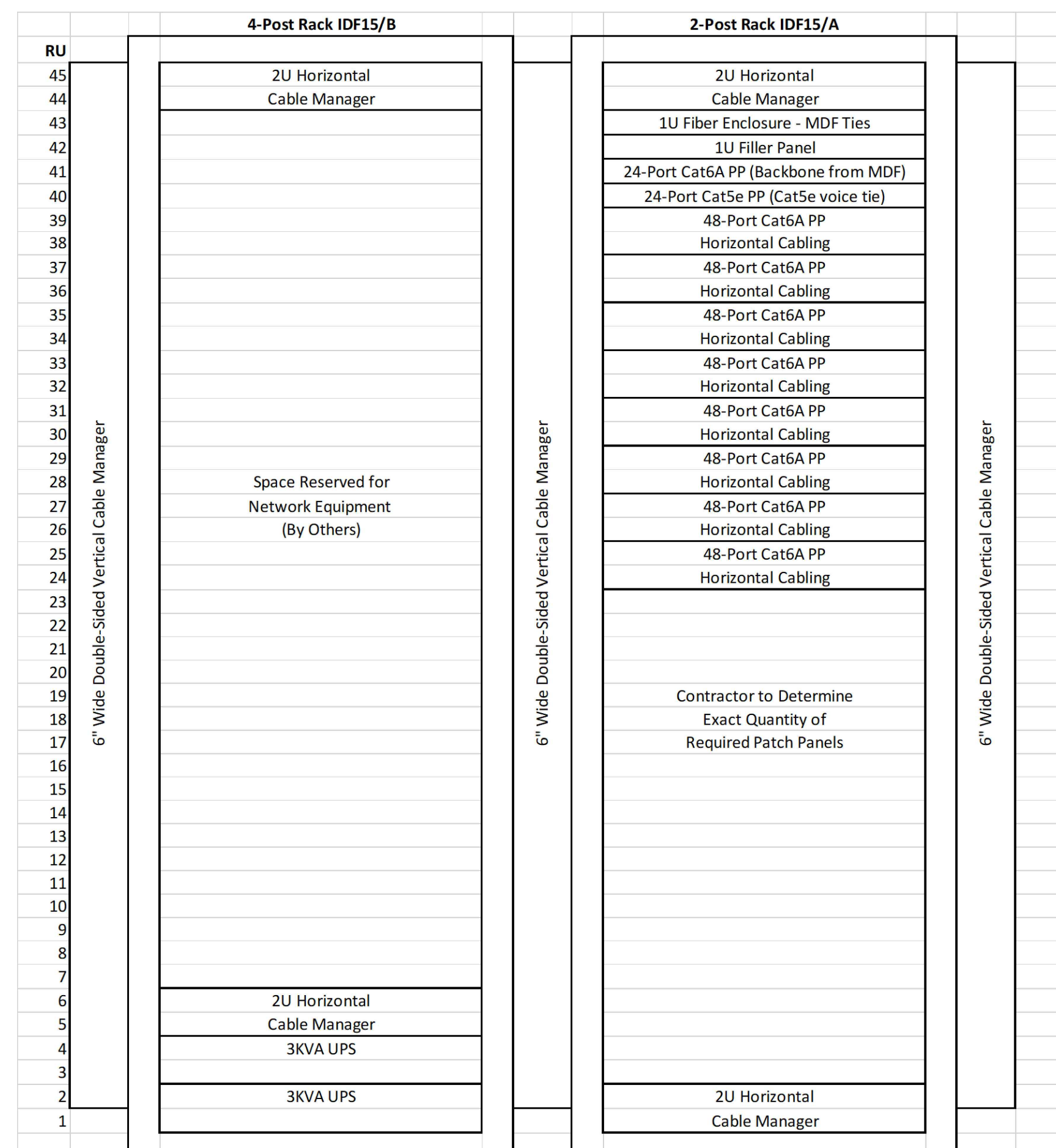


TC1-404A.00

3/4"=1'-0"



1 BUILDING 1 LEVEL 5 IDF ROOM PART PLAN
SCALE: 3/4"=1'-0"



2 BUILDING 1 LEVEL 5 IDF RACK ELEVATIONS
SCALE: NONE

TELECOMMUNICATIONS KEY NOTES

- 1 3/4" FIRE RETARDANT PLYWOOD WALLFIELD BY G.C.
- 2 TELECOMMUNICATIONS GROUNDING BUS BAR INSTALLED AT ~7'-0" AFF BY E.C.
- 3 WALLFIELD SPACE RESERVED FOR PROVIDER TELECOMMUNICATIONS DEMARCS & 110-BLOCKS.
- 4 DEDICATED NEMA 5-20R QUAD RECEPTACLE BY E.C.
- 5 CPI 4-POST IT EQUIPMENT RACK - 15053-703
- 6 CPI 2-POST IT EQUIPMENT RACK - 68353-703
- 7 6" WIDE DOUBLE-SIDED VERTICAL CABLE MANAGERS - 32622-703
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- 17 4" EZ PATH SLEEVE FOR HORIZONTAL CABLING
- 18 4" EMT CONDUIT FOR TO 6TH FLOOR PULLBOX FOR 6TH AND 7TH FLOOR HORIZONTAL CABLING

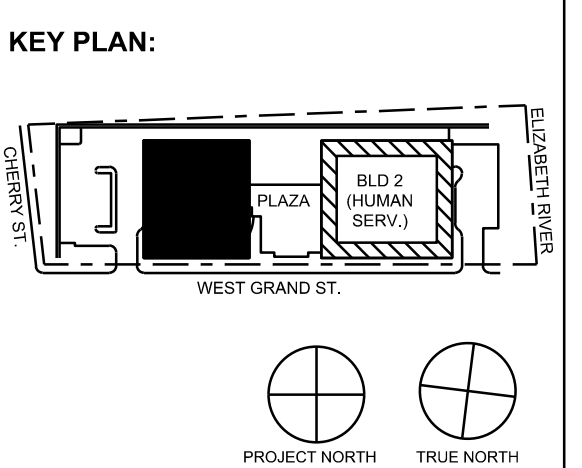
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