

# B I D A D D E N D U M 0 2

The attention of bidders submitting proposals for the subject project noted above is called to the following Addendum to the Contract Forms and Specifications.

The items set forth herein, whether of omission, addition, substitution or clarification, are to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM MUST BE ENTERED IN THE SPACE PROVIDED ON THE BID PROPOSAL FORM.

This Addendum consists of the following information:

<b>Part 1</b>	<b>Division #0, Bidding and Contract Requirements</b>	
<b>Part 2</b>	<b>Technical Changes, Architectural, Structural and Civil</b>	
Part 3	Technical Changes, Mechanical, Electrical and Plumbing .....	NOT USED
Part 4	Drawing Changes, Architectural and Civil.....	NOT USED
Part 5	Drawing Changes, Structural.....	NOT USED
<b>Part 6</b>	<b>Drawing Changes, Mechanical, Electrical and Plumbing</b>	
<b>Part 7</b>	<b>Clarifications</b>	
<b>Part 8</b>	<b>New Issues</b>	

**Part 1      Division #0, Bidding and Contract Requirements**

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- 1. SECTION 006104 – PROJECT LABOR AGREEMENT**
  - a) Remove from Article 1.01, “by Arace & Company Consulting”
- 2. SECTION 011000 – DESCRIPTION OF WORK**
  - a) Add to the end of Paragraph 1.1A.2, “Phase Two includes all remaining trades and work required to fully complete the project as shown on the contract documents”.
- 3. SECTION 011501 – UNIFORM SAFETY STANDARDS**
  - a) Remove Section 011501
- 4. SECTION 014100 – PERMITS AND COMPLIANCE**
  - a) Add - Article 1.1 D – “The Owner will provide the Building Permit and the Owner’s Civil Engineer will facilitate the provision of the DOT permit for Harrison Avenue. The Contractor will provide any information required to obtain these permits. All other required permits are to be obtained and paid for by the Contractor”.
- 5. SECTION 042000 – UNIT MASONRY**
  - a) 3.4 MORTAR BEDDING AND JOINTING – Add A. 5, “All masonry units are to be laid in patterns and bonding as shown on drawings. Review with Architect prior to commencement work”.
  - b) 3.8 ANCHORING MASONRY VENEERS – Add A.4, “Minimum spacing on stud wall backup to be 16” O.C. horizontally and 24” O.C. vertically”.

**6. SECTION 053100 – STEEL DECKING**

- a) Revised Article 1.1A.2, “Acoustical Roof Decking is to be provided over Gymnasium 113 and Fitness 123”.

**7. SECTION 054000 – COLD-FORMED METAL FRAMING**

- a) Add Article 1.3 PERFORMANCE REQUIREMENTS, B.6, “Delegated Design is to include coordination with all cladding materials to ensure that stud gauge meets the minimum weight required for fastening all fiber cement panels, cast stone or other cladding materials”.

**8. SECTION 015000 – TEMPORARY FACILITIES**

- a) Add Article 1.21,

**TEMPORARY HEATING/COOLING/DEHUMIDIFICATION FACILITIES**

- A. The Contractor shall provide and pay for all temporary heating, coverings and enclosures necessary to properly protect all work and materials against damage by dampness and cold, to dry out the work and to facilitate the completion thereof. The Contractor shall maintain the critical installation temperatures, provided in the technical provisions of the specifications, herein, for all work in those areas where same is being performed.

**Attention is directed to specific temperature requirements for painting, carpentry, flooring and such other temperature sensitive operations connected with the execution of the Work.**

- B. Before and during the placing of wood finish and the application of other interior finishing, varnishing, painting, etc. and until final acceptance by the Owner of all work covered by the Contract, the Contractor shall, unless otherwise specified in the Contract Documents, maintain a temperature of between 65- and 85-degrees F. Coordinate with Division 9 of the Technical Specifications.
- C. The Contractor is to provide all temporary heat and or dehumidification as required to maintain the project schedule and to install materials and systems in accordance with the manufacturer’s specifications for environmental conditions. This is to include the cost of equipment, fuel, fire watch, tenting or scaffolding or whatever measures are required.

**Part 2 Technical Changes, Architectural, Structural and Civil**

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**1. SECTION 096560 – RESILIENT ATHLETIC FLOORING**

- a) Replace Part 2.1.A.1 – “SP1: Tarkett, Omnisports Active +” with “Tarkett, Omnisports HPL 9mm”.

**Part 6 Drawing Changes, Mechanical, Electrical and Plumbing**

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- 1. Drawing SE-000-Cover Legend-General Notes
- 2. Revised Electrical Sheets: E-001, E-202, E-302, E-303, E-304, E-401, E-402, E-403, E-501, E-502, E-602.
- 3. Revised Fire Protection Sheet: FP-202
- 4. Revised Mechanical Sheets: M-201, M-203, M-204, M-301, M-303, M-304, M-501, M-601, M-602, M-603.

## Part 7 Clarifications

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1. Metal deck over Gymnasium 113 and Fitness 123 to be Epic Toris A Roof Deck Ceiling System. See General Structural Notes, Steel Deck Notes #4.
  
2. Q: Specification-Table of Contents 000010-5: Division 26 Electrical- 260775 Diesel Emergency Engine Generator (Not in scope, by owner); 260785 ATS, same question. Is Generator supplied by Owner? Is Electrical Only installing Generator  
A: Contractor to furnish and install the Generator as noted in spec section 263213.14 "Diesel Engine Generators" and 236000 "Transfer Switches"
  
3. Q: Can you please help with some clarification on the scoreboard spec'd in section 116640. Under 2.2, the overall dimensions are larger than the scoreboard, so I was wondering what you wanted to go around the cabinet? Are you wanting it to have sponsor signs, or something else? Also, for the control software, it says you are wanting two licenses for a laptop. Typically non-video scoreboards are controlled from a controller provided by the manufacturer, not on a computer.  
  
A: Utilize the dimensions listed for the Basis of Design product (approx. 4'x10') there are no signage panels. Provide controls as specified.
  
4. Q: Drawings A603 and A502 call out and show a walk draw style divider curtain with a curved track 116620 specifications call for a Motorized roll up divider curtain. Please confirm walk draw style divider curtain or motorized roll up curtain is desired.  
A: Walk draw divider curtain is confirmed. There is no motorized curtain.
  
5. Q: Please confirm 116620 wall padding to have 2" Class A neoprene foam  
  
A: Confirmed
  
6. Q: Doors 114C & 114D – The door schedule on A911 has doors 114C and 114D as aluminum and is referencing door elevation F. Are these doors wood or aluminum?  
A: Doors are Aluminum see WS1 sim to 114 A and B.
  
7. Q: Fire rated glass is specified for doors 114C and 114D on first floor plan A202. The door schedule does not provide a fire label. Are these doors required to be fire rated including the frame?  
A: Door and frame are rated at the request of the Fire Marshal.
  
8. Q: Door SA1A – Door schedule A911 specifies door SA1A to be fire rated. Is the surrounding aluminum frame and glass in stair A required to be a complete fire rated system?  
A: No, see Construction Type Chart on CC001.
  
9. Q: Door elevation FRP does not exist on the door elevations. Which type of door is this?  
A: Door is aluminum see elevation WS1.

10. Q: Door 203B – The door schedule on A911 has door 203B as aluminum and is referencing door elevation FLNG. Are these doors wood or aluminum?

A: Door type is Aluminum WS1 not FLNG.

11. The door schedule on A911 has doors 114A and 114B as aluminum and is referencing door elevation WS1 and hollow metal frame type H3 on A912. Are these doors and frames aluminum or hollow metal?

A: Doors and frames are aluminum. The configuration resembles H3.

12. Is type 'A' door on A912 storefront or curtainwall?

A: Storefront

13. Are the interior lobby doors 100D, 100E, 100F, and surrounding frame on A912 required to be thermally broken?

A: No

14. Q: Are type '1' and type '2' on A913 storefront or curtainwall?

A: Storefront. Only 1Z, 1Y, and 1X are curtain wall.

15. Q: Which curtainwall type 1,2,3, or 4 on specification 084410-6/2.1 are we to provide?

A: The pressure plate system type.

16. Q: If the answer to #5 above is more than one type, where are they located on A912 and A913.

A: NA

17. Q: Please confirm if locks are required at custom cabinetry.

A: Provide locks on doors.

18. Q: What solid surface is to be used at window sill per detail 2/A802?

A: Window sill to match the Fitness Desk counter top.

19. Q: Please provide a copy of the sign in sheet from the Mandatory Pre Bid Meeting which took place on 6.13.2024.

A: Sign in sheet is attached in Part 8.

20. Q: Please provide a guideline specification for the PV Array.

A: The PV Array is Not In Contract. Contractor to provide infrastructure only per Electrical Drawings.

21. Q: There are trees that need to be trimmed along the west property line. Are there any requirements for this work?

A: Tree pruning will be required by the Contractor. At a minimum, trees will be pruned to the property line. Some work may be required on the abutter's property TBD.

22. Q: Please confirm spray foam is not required under the parking area, but only around the beams, as shown on A504 Finish Schedule.

A: Confirmed that the steel beams receive the spray foam the decking does not. See

23. Q: Please provide specification for the Roof Green Grid/Tray System.  
A: Vegetated Roof System spec is attached. Basis of Design is GreenGrid G4 Module by Weston Solutions.
24. Q: The door schedule on sheet A-911 does not indicate a required fire rating for door #'s 114C 114D & it's frame, but the floor plan on A-202 has a note pointing towards these doors that says 'fire rated glass required @ this door'. Please clarify if these doors and frame are required to be fire rated aluminum system. If it is to be fire rated aluminum please indicate a duration to be included and provide a spec section.  
A: Door and frame at 114 C and D are required to be rated. Duration is 60 min.
25. Q: The door schedule says that door #'s 114A, 114B, 114C, 114D are aluminum doors with aluminum frames and indicates the frame type as H3. Frame type H3 is a hollow metal frame according to sheet A912. Please clarify if the previously mentioned door numbers should be aluminum doors with aluminum frames or hollow metal doors with hollow metal frames. Please also clarify fire rating requirements for these doors per the note on A202.  
A: 114 A-D are aluminum doors and frames. 114 C and D are rated. Provide aluminum doors and frames in the H3 configuration.
26. Q: Please clarify requirements for the operable partitions on the second floor between column lines D.1 & B.8 and in line with column line 4. Elevations on A406 say 'operable partition, see spec'. The drawings have very limited information for these openings, and it is unclear if these partitions are glass or a different material. Are these operable partitions glass? Should they be included per spec section 083513? Please clarify.  
A: The operable partitions on column line 4 between the Multipurpose Room 203 and Viewing 200 are not glass. See spec section 102220 Folding Panel Partitions.
27. Q: Please clarify requirements for the operable partition that divides multi purpose rooms 202 & 203. Elevation on A406 say 'operable partition, see spec'. The drawings have very limited information for this opening, and it is unclear if this partition is glass or a different material. Is this operable partition glass? Should it be included per spec section 083513? Please clarify.  
A: The operable partitions on column line 4 between the Multipurpose Room 203 and Viewing 200 are not glass. See spec section 102220 Folding Panel Partitions.
28. Q: Please clarify requirements for the partition (which may be operable based on how it looks on the floor plan compared to other partitions that are operable) on the second floor between column lines B.8 & C.6 and in line with column line 5.7. The drawings have very limited information for this opening. It is shown in elevation 2/A403 with glazing indicators, so it's clear this is a glass partition, but it is unclear if it is intended to be fixed or operable. Please clarify.  
A: The partition is operable. It is intended to be a pivot type opening.
29. Please clarify frame type for frame 1R & 1P. These frames were assumed to be hollow metal like the other interior glazed frames they are located next to, but they are incorrectly included in the first floor *exterior* glazing section of the frame elevations on sheet A913. Frames 1R & 1P are interior glazing. Please clarify if the frames are hollow metal or aluminum.  
A: The frames for 1R and 1P are hollow metal.
30. Q: Please clarify where window type 1B shown on sheet A913 occurs on the project. It does not appear to be shown on the exterior building elevations.  
A: Window 1B is shown on EAST FAÇADE ELEVATION on Sheet A301. It is located in the

north east corner of Fitness Room 123.

31. Q: Spec section 085110 Aluminum Windows was provided as part of the bidding documents, however it is unclear which exterior openings should be included per this spec section. While the drawings do call most exterior openings 'windows' we believe all exterior openings on the project are either storefront or curtain wall. Please confirm that spec section 085110 can be disregarded and that all exterior openings should be included as storefront or curtain wall per spec section 084410 & 084110 or clarify which exterior openings should be included as aluminum windows per spec section 085110.  
A: Confirmed utilize spec sections 084410 and 084110.
32. Q: Bid extension request. (multiple)  
A: See Addendum 1
33. Q: It appears that Inpro materials (tags VWC-1 and VWC-2) are referenced, but the documentation includes only a room finish schedule and lacks a material legend. Consequently, we are unable to determine the allocation of materials, such as color variations, to their respective locations.
34. Q: Please clarify the following discrepancies in the bidding / construction documents:  
According to the Code Compliance drawings this structure is not a fire rated structure. Fire resistance rating for the building elements is shown as zero hours. The finish schedule on drawing A504 shows "closed cell spray foam insulation on all steel beams with painted deck". A601 calls for "closed cell spray foam insulation on all steel beams". A804 calls for "spray fireproof primary structure". Specifications section 078100 calls for regular density spray fireproofing for concealed steel and thin film intumescent paint for exposed steel. Our interpretation of this information is that even though the building structure is not fire rated, the Parking Garage will need to be fireproofed. That the "open cell spray foam insulation" is a typo and the intent was to specify spray fireproofing material. Please confirm or advise if our interpretation is correct. Also, clarify if the intent is to use regular density fireproofing at the Parking Garage level steel or if the intent is to use intumescent paint. Lastly, please clarify what the required fire resistance rating for the Parking Garage steel will be.  
A: The interpretation is correct. It is the intent to use regular density fireproofing on the steel beams in the Garage. The resistance rating is 1- hour.

**Part 8      New Issues**

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| 1. Pre Bid Meeting Attendance                          | 1 page  |
| 2. Specification Section 077273 Vegetated Roof Systems | 5 pages |

End of Addendum




















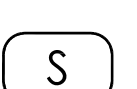

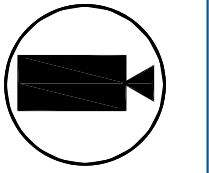
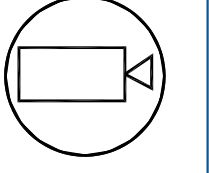
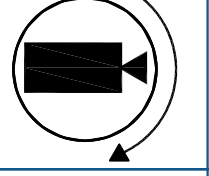
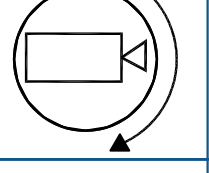
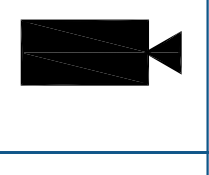
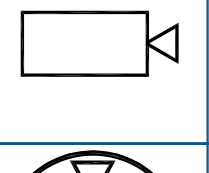
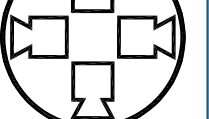
## GENERAL NOTES

- DRAWINGS AND DIVISION 28 DEFINITIONS: YOU ARE THE SECURITY ELECTRICAL CONTRACTOR ("SC" ; "SEC"), LOW VOLTAGE CONTRACTOR ("LVC") AKA "BIDDER" "CONTRACTOR". THE BASE BUILDING ELECTRICAL CONTRACTOR IS KNOWN AS "EC". OTHER THAN OWNER PROVIDED ELECTRONIC CONTROLLERS AND EQUIPMENT, ALL OTHER SECURITY SYSTEM INSTALLATION WORK IS PART OF YOUR WORK. ALL ITEMS MENTIONED IN THE DIVISION 27 AND 28 SPECIFICATIONS ARE ALSO PART OF THIS PACKAGE AND INCLUDED IN YOUR SCOPE OF WORK AS WELL.
- GENERAL NOTES SHALL APPLY TO ALL DRAWINGS IN THE SE AND TC BINDER SETS.
- WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, AND OTHERS.
- THE SEC SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
- FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SEC AS REQUIRED BY CODE.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUITS AND CONDUCTOR LAYOUTS SHALL BE PROVIDED BY THE SEC IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
- THE SEC MUST COORDINATE WITH THE EC ALL DEVICE INSTALLATION DETAILS AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE PER THE FINAL APPROVED SHOP DRAWING, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS SURFACE MOUNTING IS ONLY APPROVED IF THERE IS NO OTHER PATHWAY OPTION. NO SURFACE MOUNTING IS APPROVED ON ANY DRYWALL.
- PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40% CONDUIT FILL. WHEN USING SURFACE MOUNTED WIREMOLD, BACK BOX DEPTH SHOULD NOT EXCEED THE ABSOLUTE MINIMUM DEPTH REQUIRED FOR THE DEVICE. FOR EXAMPLE, CARD READERS BACK BOX CANNOT EXCEED 1/2" IN DEPTH.
- UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE SEC AS WELL.
- THE SEC SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
- UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK.
- THE SEC SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY PANDUIT J-HOOKS, CABLE TRAYS, OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
- THE SEC TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT. AT MDF/IDF, ON THE PLYWOOD BACKBOARD, USE GROUND BAR. COORDINATE WITH GENERAL CONTRACTOR AND EC FOR NEAREST GROUNDING LOCATION.
- THE SEC SHALL WIRE ALL DOORS FOR ELECTRIFIED DOOR HARDWARE THAT WILL BE PROVIDED BY OTHERS. THIS INCLUDES ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS AUTOMATIC DOOR OPERATORS ETC..
- THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL THE WORK REQUIRED BY THE SEC FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
- ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL WIRES AND BRUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES. THE PENETRATIONS SHALL BE FIRE- STOPPED.
- PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL INSTALLED DEVICES WITH OWNER'S REP TO VERIFY CORRECT INSTALLATION & PROPER FUNCTIONING.
- AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE SEC SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT, TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
- THE SEC SHALL ADJUST CAMERA VIEWS TO OWNER'S SATISFACTION TILL FINAL ACCEPTANCE.
- CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM AND BE CONNECTED BY SEC.
- THE SEC IS RESPONSIBLE FOR PROVIDING A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS.
- ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING LSL-77 TAGS OR SIMILAR. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE
- SECURITY SCREWS TO BE USED ON ALL DEVICES TO MAINTAIN SYSTEM'S INTEGRITY.
- POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR.

## POWER REQUIREMENTS

- |          |  |
|----------|--|
| <b>1</b> | <b>POWER (EMERGENCY CIRCUIT)</b><br>CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.         |
| <b>2</b> | <b>POWER (NON-EMERGENCY CIRCUIT)</b><br>CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS. |

## SECURITY DEVICES LEGEND

	CARD READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	BURG PANEL KEY PAD		
	ELECTRIFIED DOOR OPERATOR (PBO)		
	OVERHEAD DOOR CONTACT		DPDT = DOUBLE POLE DOUBLE THROW
	ELECTRIC MORTISE LOCK		REX = REQUEST TO EXIT BUILT IN
	ELECTROMAGNETIC LOCK		
	ELECTRIC STRIKE LOCK		
	END OF LINE RESISTOR		
	REQUEST TO EXIT MOTION SENSOR		
	INTELLIGENT DOOR MANAGEMENT ALARM (IDMA) - "EXD" CABLE		
	ELECTRIC LOCKING CRASH BAR		REX = BUILT IN REQUEST TO EXIT
	MOTION SENSOR (LONG RANGE) - "RX" CABLE		MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360° CEILING TYPE
	MOTION SENSOR (SHORT RANGE) - "RX" CABLE		
	BUZZER		
	TEMPERATURE SENSOR		
	VIDEO MONITOR		
	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
	SIREN		
	CUSTODIAL ARMING STATION		
	FIXED MINI DOME OUTDOOR VANDAL CAMERA		
	FIXED MINI DOME INDOOR CAMERA		
	PTZ DOME OUTDOOR CAMERA		
	PTZ DOME INDOOR CAMERA		
	FIXED BOX OUTDOOR CAMERA		
	FIXED BOX INDOOR CAMERA		
	QUAD CAMERA		





Key Plan

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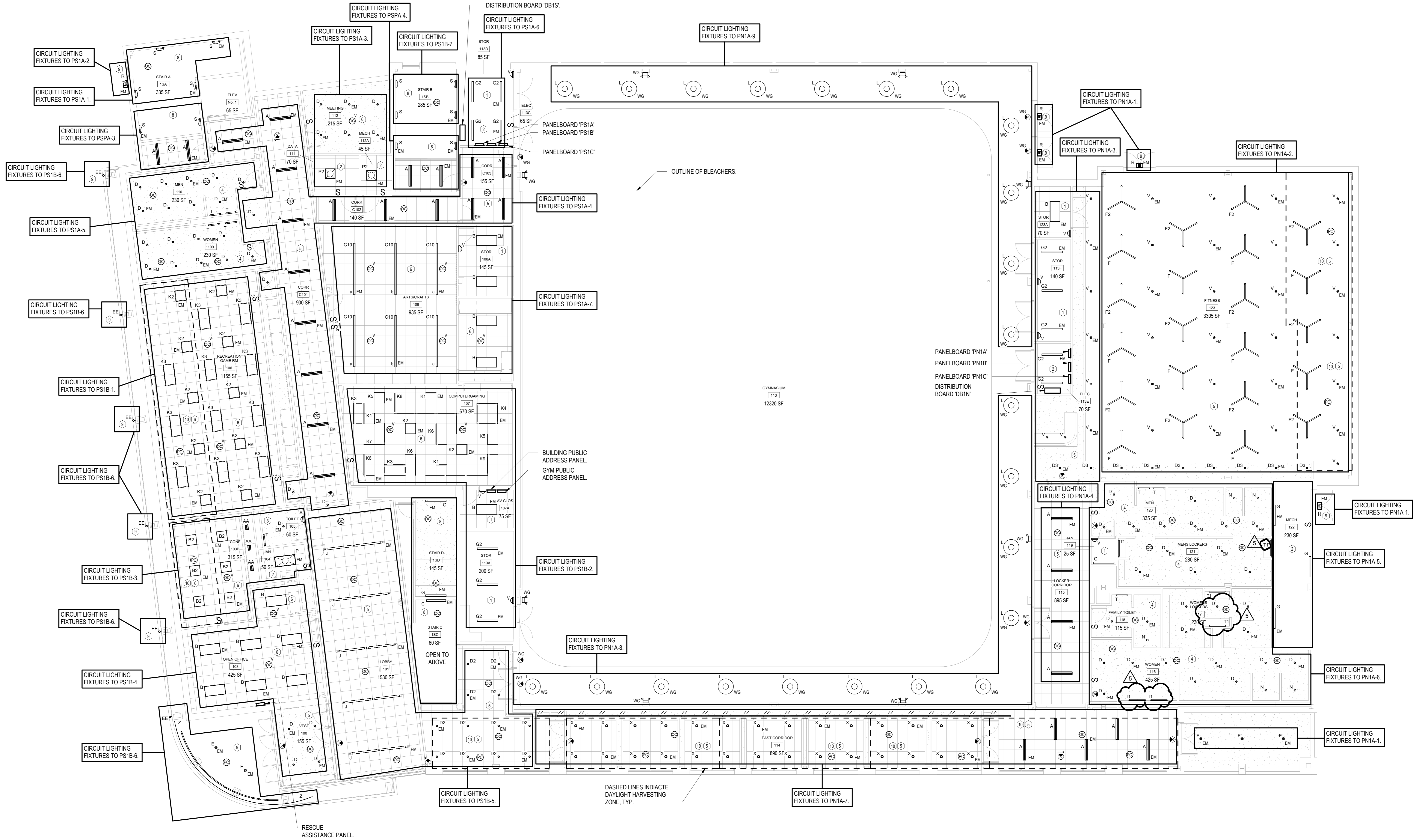
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No.	Date	Issue
5	07/01/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Job No.	Date
NKGD0207.00	02/21/20

Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number



- LIGHTING CONTROL LEGEND:**
- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
  - 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
  - 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
  - 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
  - 5 - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
  - 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
  - 7 - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
  - 8 - TIMECLOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
  - 9 - OUTDOOR PHOTOSENSOR CONTROL.
  - 10 - DAYLIGHT ZONE.

**ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"  
 NORTH

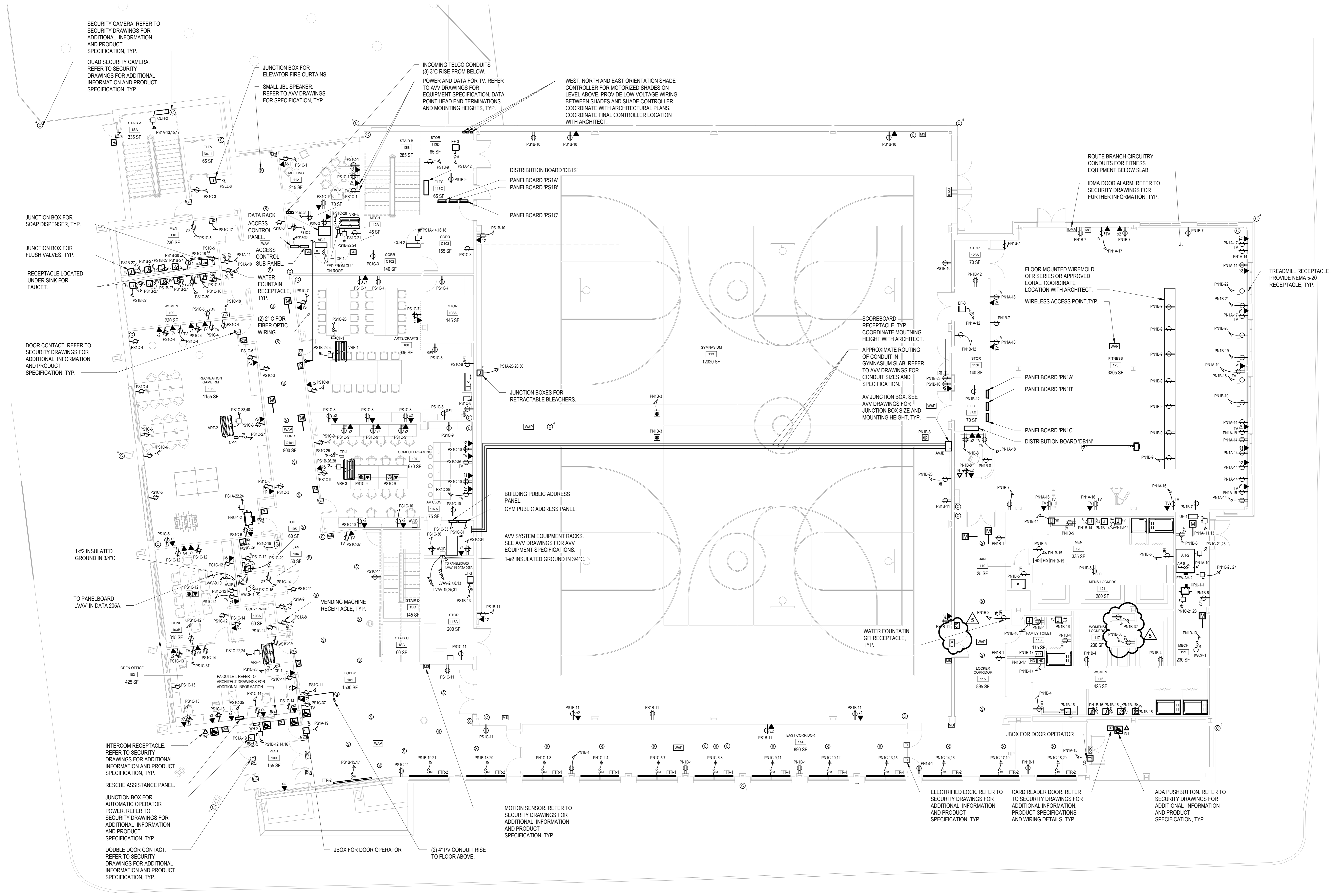
5	07/01/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

**ELECTRICAL FIRST FLOOR PLAN**

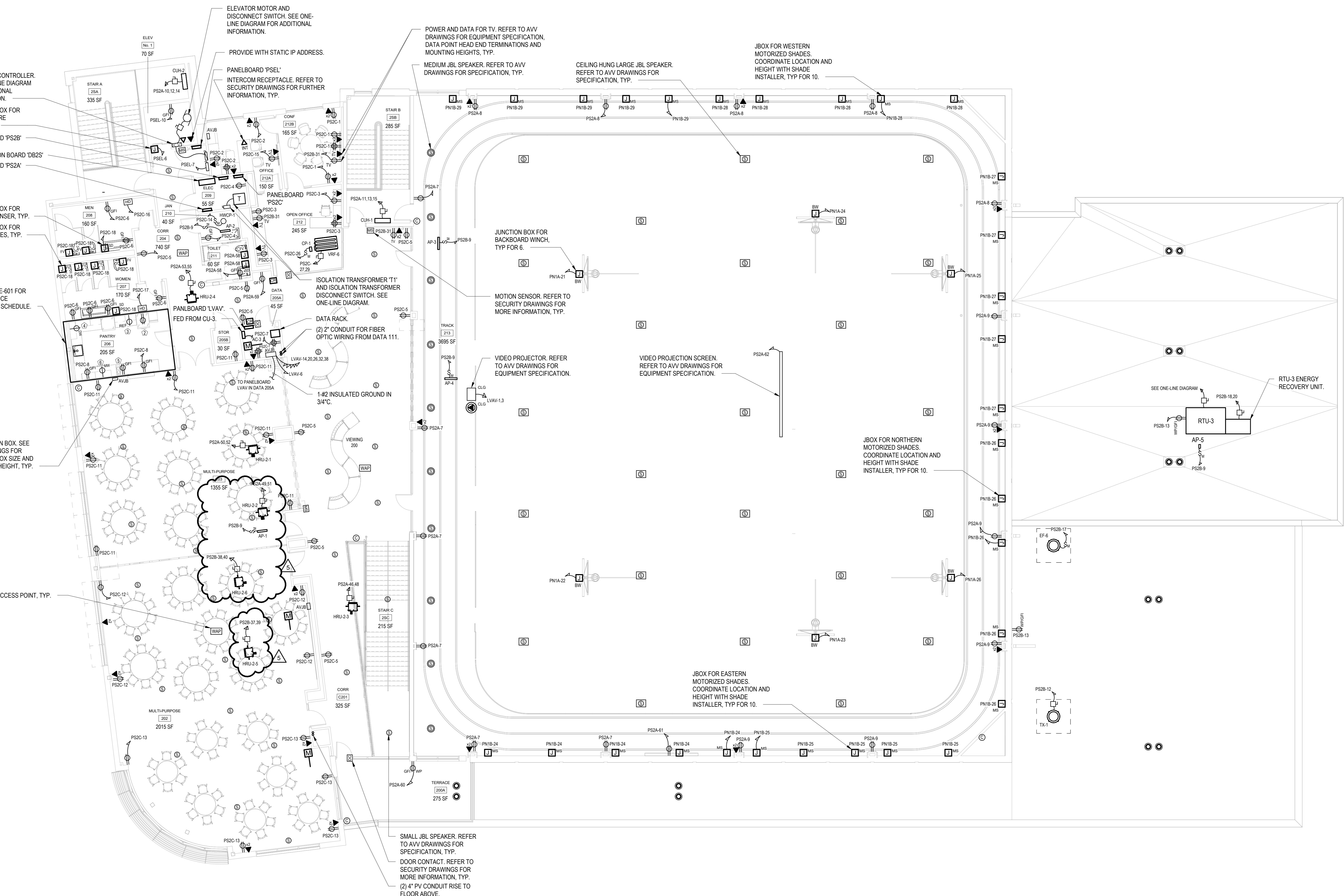
Job No. NKG0207.00 Date 02/21/20  
 Scale AS NOTED Drawn / Checked VB / ML  
 Sheet Number

**E-302**



**ELECTRICAL FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

- NOTES:  
 1.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE SOUTH SIDE OF THE BUILDING TO PS1A-20.  
 2.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE NORTH SIDE OF THE BUILDING TO PN1C-22.



**1 ELECTRICAL SECOND FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

NOTES:  
 1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PS2C-28'.

ELEVATOR CONTROLLER. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.  
 JUNCTION BOX FOR ELEVATOR FIRE CURTAINS.  
 PANELBOARD 'PS2B'  
 DISTRIBUTION BOARD 'DB2S'  
 PANELBOARD 'PS2A'

JUNCTION BOX FOR SOAP DISPENSER, TYP.  
 JUNCTION BOX FOR FLUSH VALVES, TYP.  
 SEE SHEET E-601 FOR FOOD SERVICE EQUIPMENT SCHEDULE.

AV JUNCTION BOX. SEE AV DRAWINGS FOR JUNCTION BOX SIZE AND MOUNTING HEIGHT, TYP.

WIRELESS ACCESS POINT, TYP.

ELEVATOR MOTOR AND DISCONNECT SWITCH. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.  
 PROVIDE WITH STATIC IP ADDRESS.  
 PANELBOARD 'PSEL' INTERROOM RECEPTACLE. REFER TO SECURITY DRAWINGS FOR FURTHER INFORMATION, TYP.

POWER AND DATA FOR TV. REFER TO AVV DRAWINGS FOR EQUIPMENT SPECIFICATION, DATA POINT HEAD END TERMINATIONS AND MOUNTING HEIGHTS, TYP.  
 MEDIUM JBL SPEAKER. REFER TO AVV DRAWINGS FOR SPECIFICATION, TYP.

JBOX FOR WESTERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

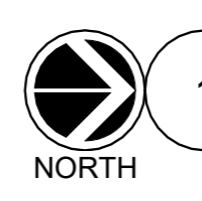
ISOLATION TRANSFORMER 'T1' AND ISOLATION TRANSFORMER DISCONNECT SWITCH. SEE ONE-LINE DIAGRAM.  
 DATA RACK  
 (2) 2" CONDUIT FOR FIBER OPTIC WIRING FROM DATA 111.

VIDEO PROJECTOR. REFER TO AVV DRAWINGS FOR EQUIPMENT SPECIFICATION.  
 VIDEO PROJECTION SCREEN. REFER TO AVV DRAWINGS FOR EQUIPMENT SPECIFICATION.

JBOX FOR NORTHERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

JBOX FOR EASTERN MOTORIZED SHADES. COORDINATE LOCATION AND HEIGHT WITH SHADE INSTALLER, TYP FOR 10.

SMALL JBL SPEAKER. REFER TO AVV DRAWINGS FOR SPECIFICATION, TYP.  
 DOOR CONTACT. REFER TO SECURITY DRAWINGS FOR MORE INFORMATION, TYP.  
 (2) 4" PV CONDUIT RISE TO FLOOR ABOVE.



1

**ELECTRICAL SECOND FLOOR PLAN**

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

NOTES:  
 1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PS2C-28'.

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**CONSTRUCTION DOCUMENTS**

Key Plan

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3	01/16/2024	ISSUED FOR PERMIT
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1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

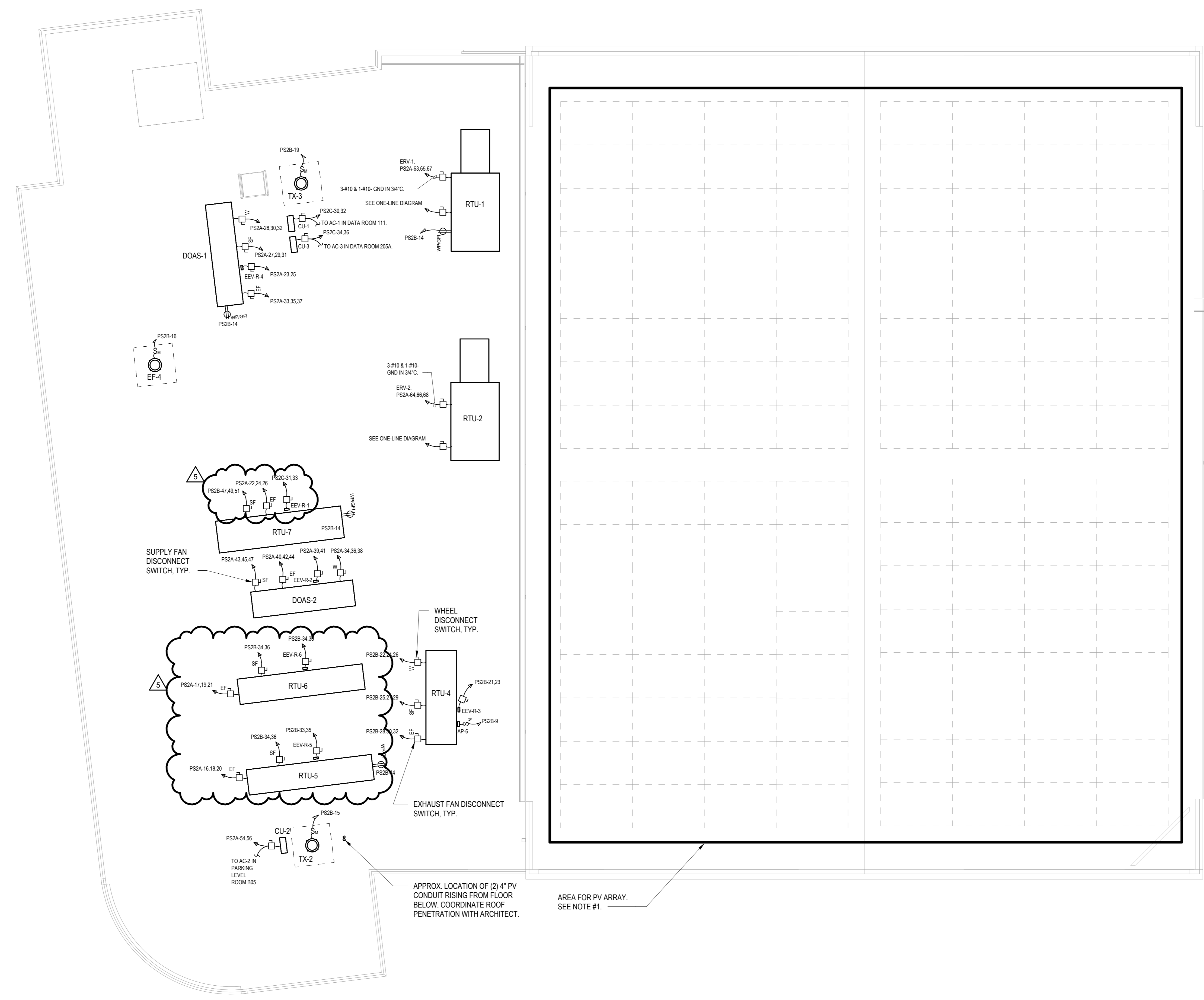
Sheet Title

**ELECTRICAL  
ROOF PLAN**

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

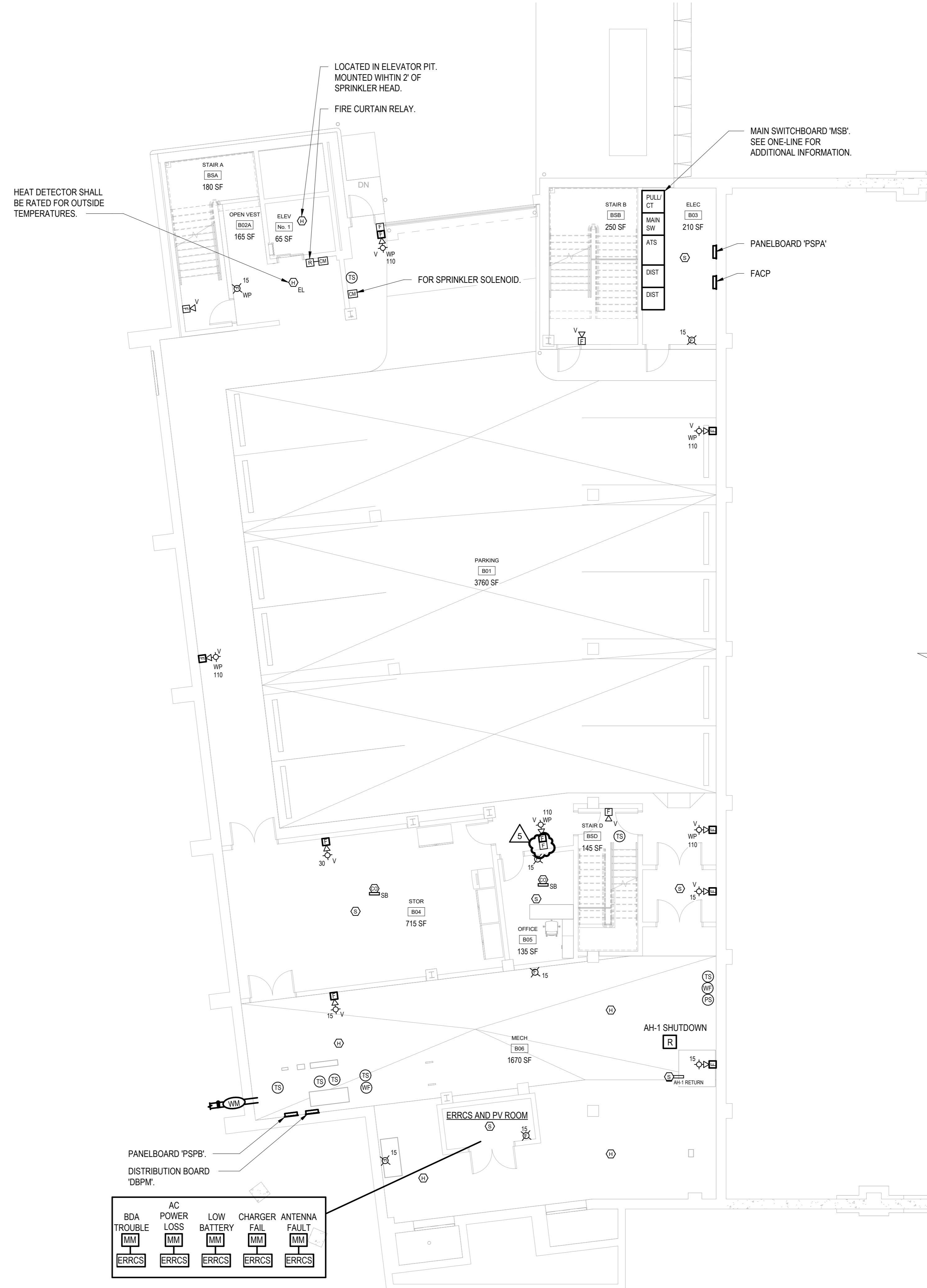
**E-304**



**1 ELECTRICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"

**NOTES:**

1.) PV ARRAY SHALL BE APPROXIMATELY 170KW CAPACITY. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.



**1 FIRE ALARM PARKING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

Key Plan

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**FIRE ALARM PARKING FLOOR PLAN**

Job No.	NKGD0207.00	Date	02/21/20
Scale	AS NOTED	Drawn / Checked	VB / ML

Sheet Number  
**E-401**

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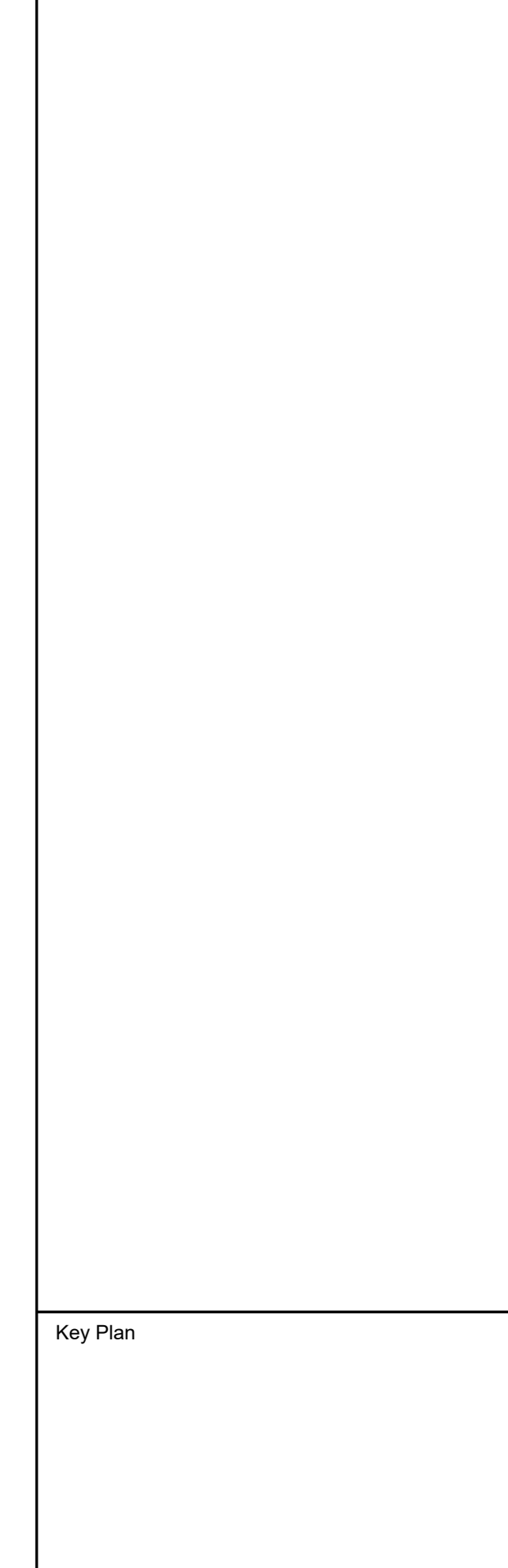


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Key Plan



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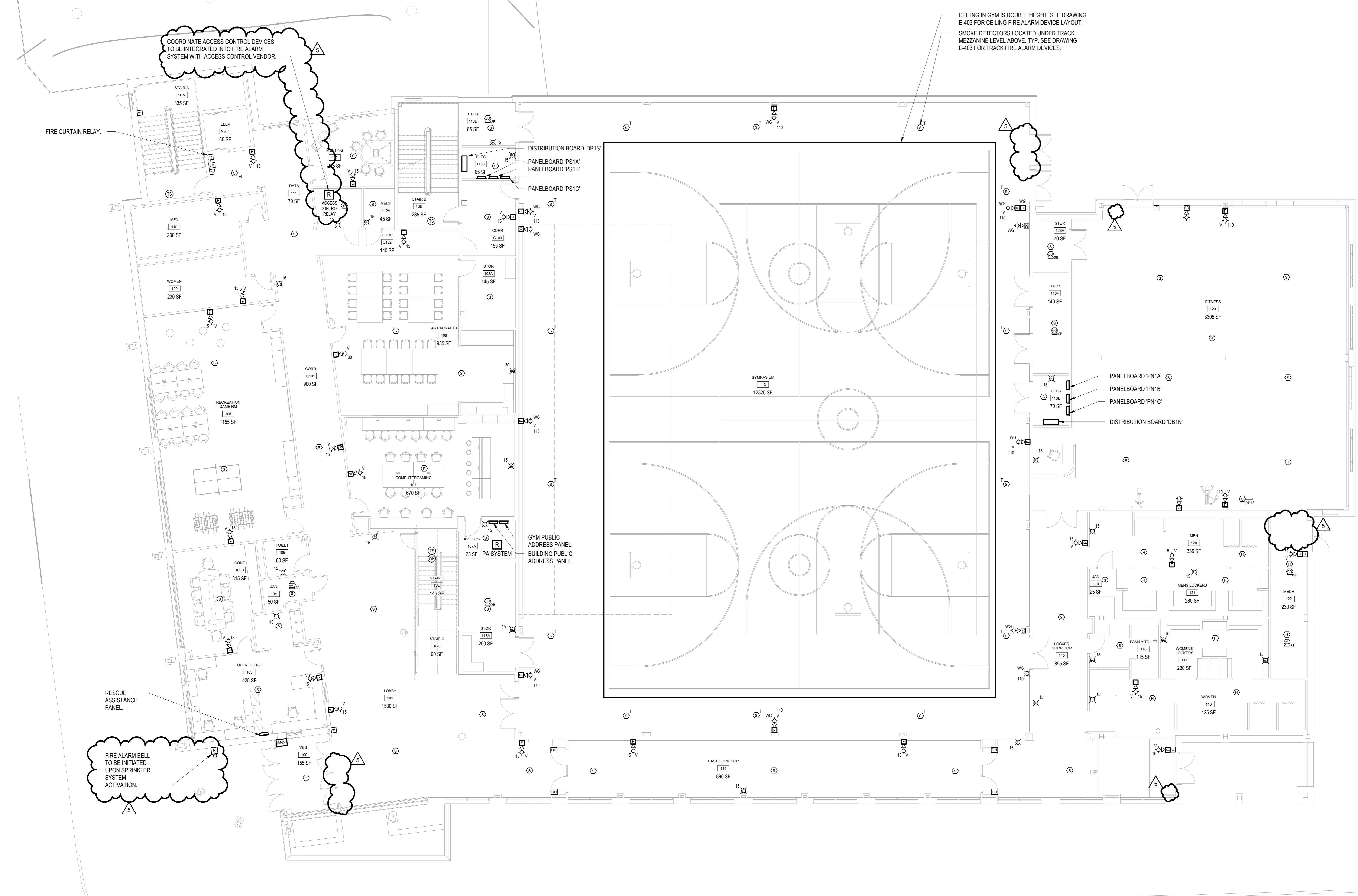
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**FIRE ALARM FIRST FLOOR PLAN**

Job No.	NKGD0207.00	Date	02/21/20
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Sheet Number	<b>E-402</b>		



CEILING IN GYM IS DOUBLE HEIGHT. SEE DRAWING E-403 FOR CEILING FIRE ALARM DEVICE LAYOUT. SMOKE DETECTORS LOCATED UNDER TRACK MEZZANINE LEVEL ABOVE. TYP. SEE DRAWING E-403 FOR TRACK FIRE ALARM DEVICES.

COORDINATE ACCESS CONTROL DEVICES TO BE INTEGRATED INTO FIRE ALARM SYSTEM WITH ACCESS CONTROL VENDOR.

RESCUE ASSISTANCE PANEL.

FIRE ALARM BELL TO BE INITIATED UPON SPRINKLER SYSTEM ACTIVATION.

**1 FIRE ALARM FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

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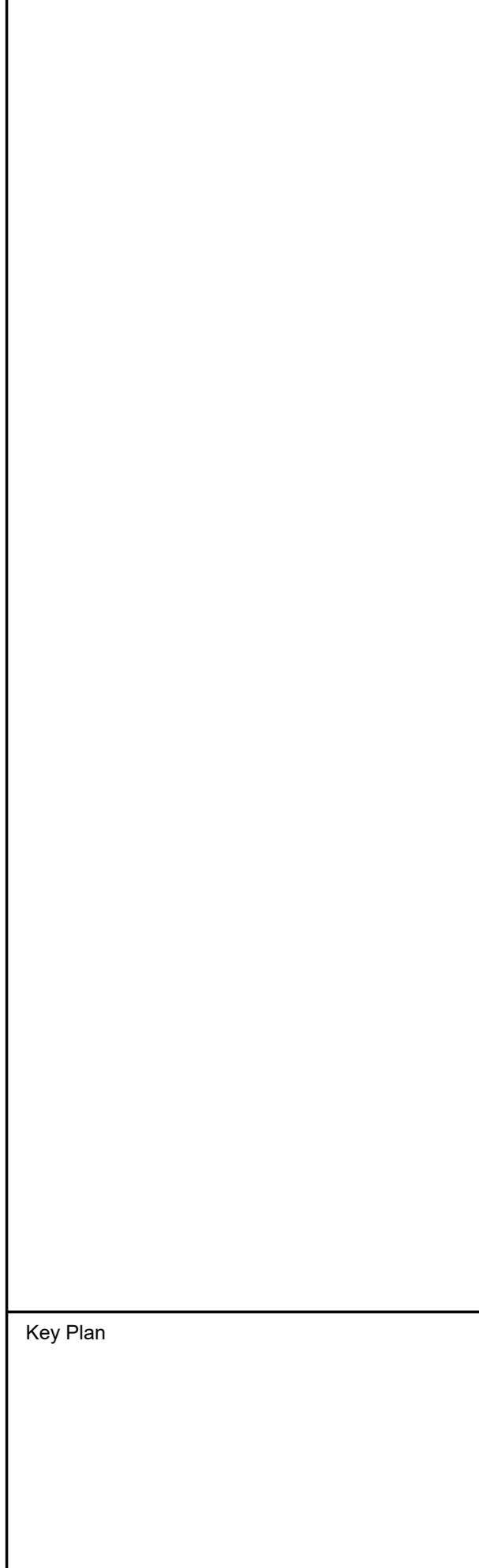


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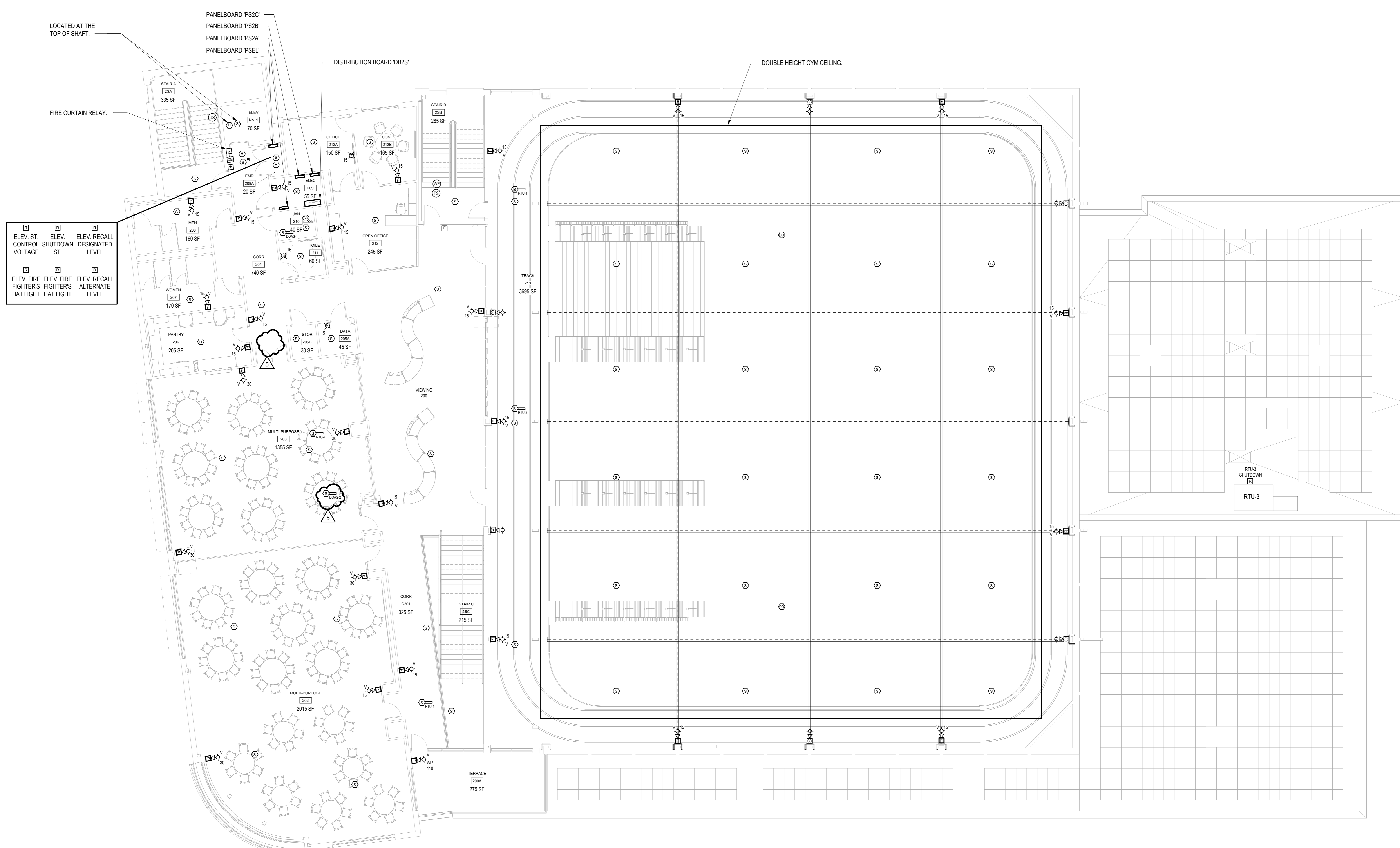
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**FIRE ALARM  
SECOND FLOOR  
PLAN**

Job No.	NKGD0207.00	Date	02/21/20
Scale	AS NOTED	Drawn / Checked	VB / ML
Sheet Number	<b>E-403</b>		



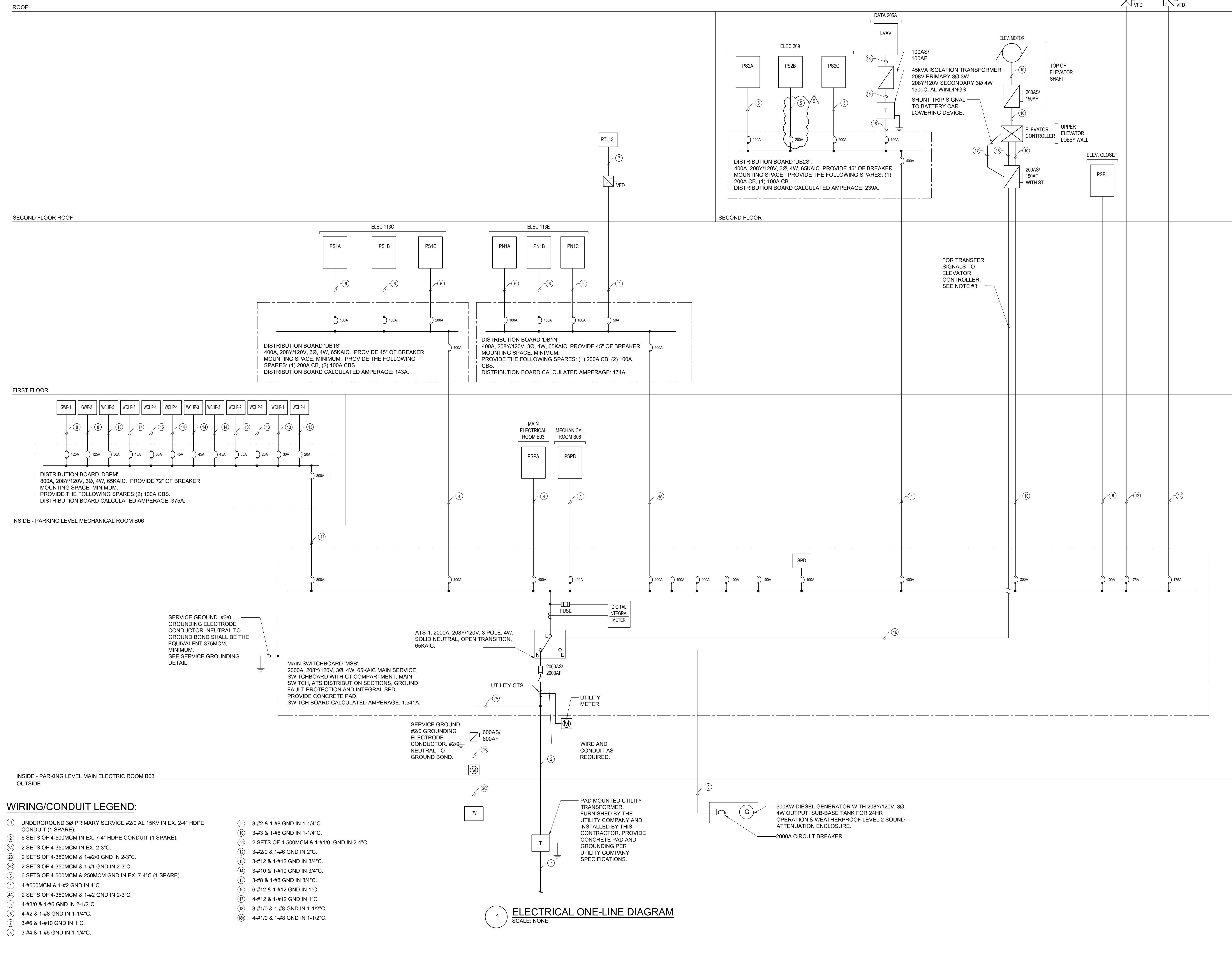
**1 FIRE ALARM SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

# HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2  
Town / Village of Harrison  
270 Harrison Avenue  
Harrison, NY 10528



## CONSTRUCTION DOCUMENTS



- WIRING/CONDUIT LEGEND:**
- ① UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. 2-4" HDPE CONDUIT (1 SPARE).
  - ② 2 SETS OF 4-500MCM IN EX. 7-4" HDPE CONDUIT (1 SPARE).
  - ③ 2 SETS OF 4-350MCM IN EX. 2-3".
  - ④ 2 SETS OF 4-350MCM & 1-#2/0 GND IN 2-3".
  - ⑤ 2 SETS OF 4-350MCM & 1-#1 GND IN 2-3".
  - ⑥ 6 SETS OF 4-500MCM & 250MCM GND IN EX. 7-4" (1 SPARE).
  - ⑦ 4-#500MCM & 1-#2 GND IN 4".
  - ⑧ 2 SETS OF 4-350MCM & 1-#2 GND IN 2-3".
  - ⑨ 4-#3/0 & 1-#6 GND IN 2-1/2".
  - ⑩ 4-#2 & 1-#8 GND IN 1-1/4".
  - ⑪ 3-#6 & 1-#10 GND IN 1".
  - ⑫ 3-#4 & 1-#6 GND IN 1-1/4".
  - ⑬ 3-#2 & 1-#8 GND IN 1-1/4".
  - ⑭ 3-#3 & 1-#6 GND IN 1-1/4".
  - ⑮ 2 SETS OF 4-500MCM & 1-#1/0 GND IN 2-4".
  - ⑯ 3-#2/0 & 1-#6 GND IN 2".
  - ⑰ 3-#12 & 1-#12 GND IN 3/4".
  - ⑱ 3-#10 & 1-#10 GND IN 3/4".
  - ⑲ 3-#8 & 1-#8 GND IN 3/4".
  - ⑳ 6-#12 & 1-#12 GND IN 1".
  - ㉑ 4-#12 & 1-#12 GND IN 1".
  - ㉒ 3-#1/0 & 1-#8 GND IN 1-1/2".
  - ㉓ 4-#1/0 & 1-#8 GND IN 1-1/2".

**1 ELECTRICAL ONE-LINE DIAGRAM**  
SCALE: NONE

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Sheet Title		
<b>ELECTRICAL ONE-LINE DIAGRAM</b>		
Job No.	Date	
NKGD0207.00	03/01/2024	
Scale	Drawn / Checked	
AS NOTED	JJ / ML/DS	
Sheet Number		
<b>E-501</b>		



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New Construction - Phase 2

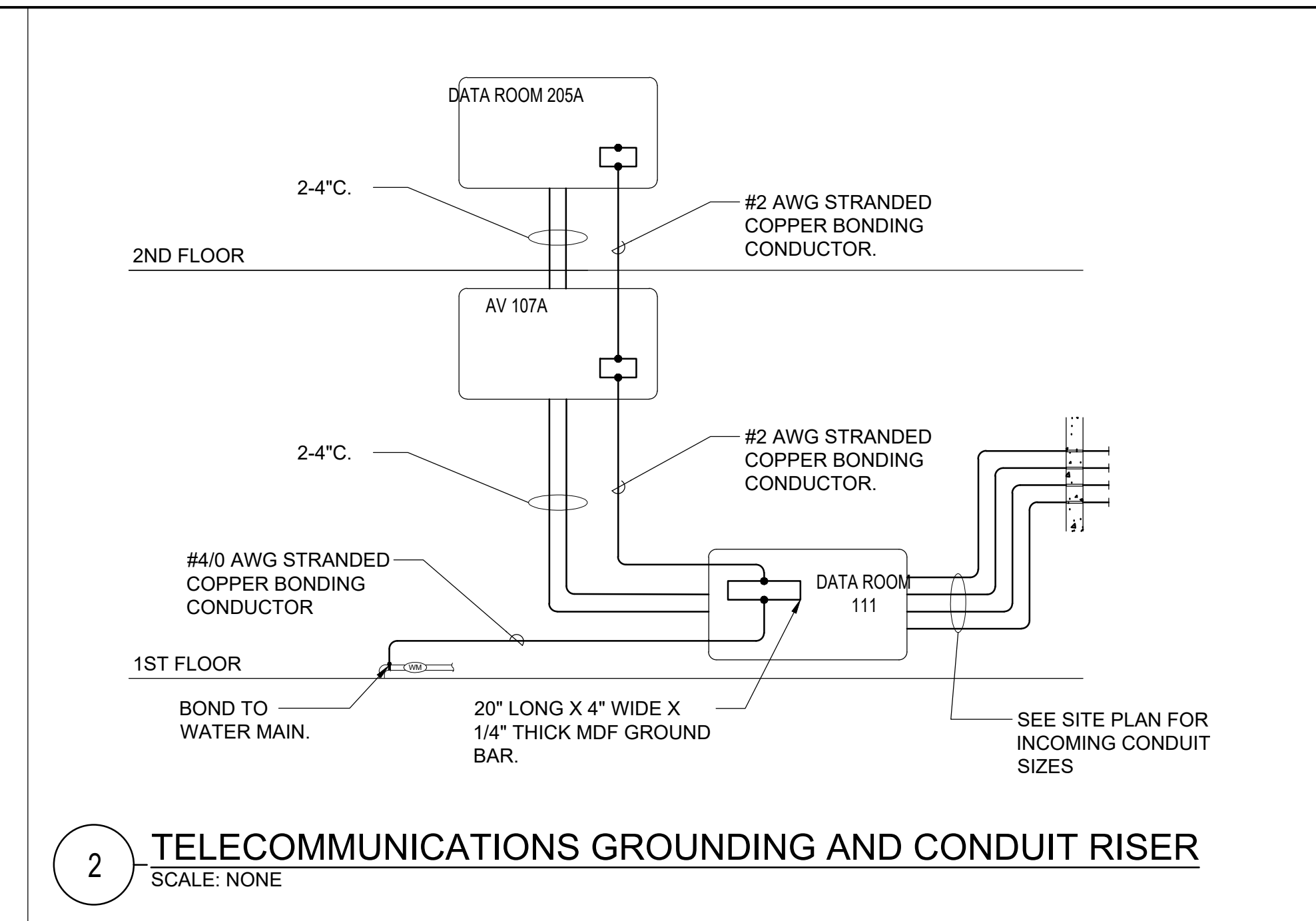
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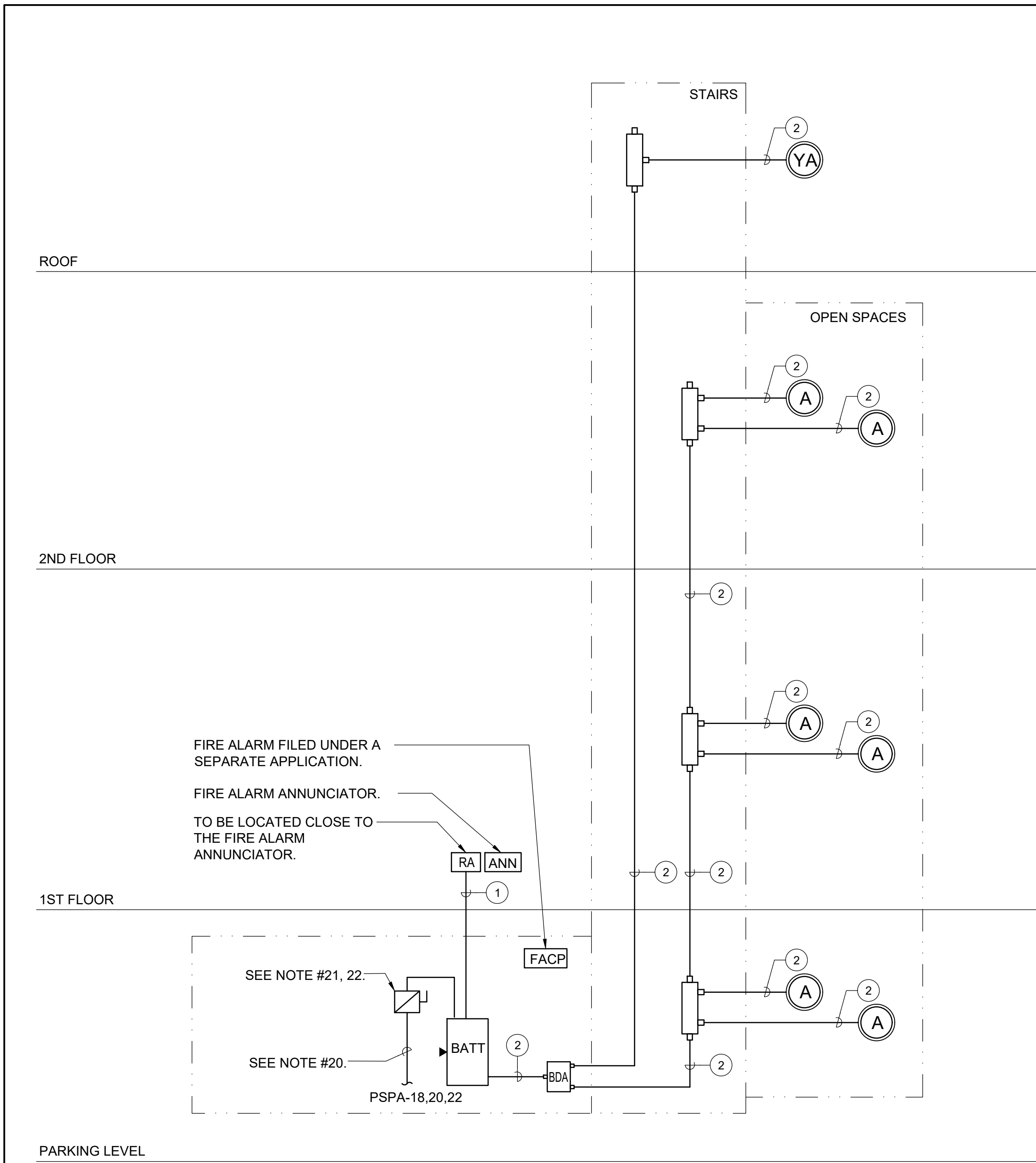
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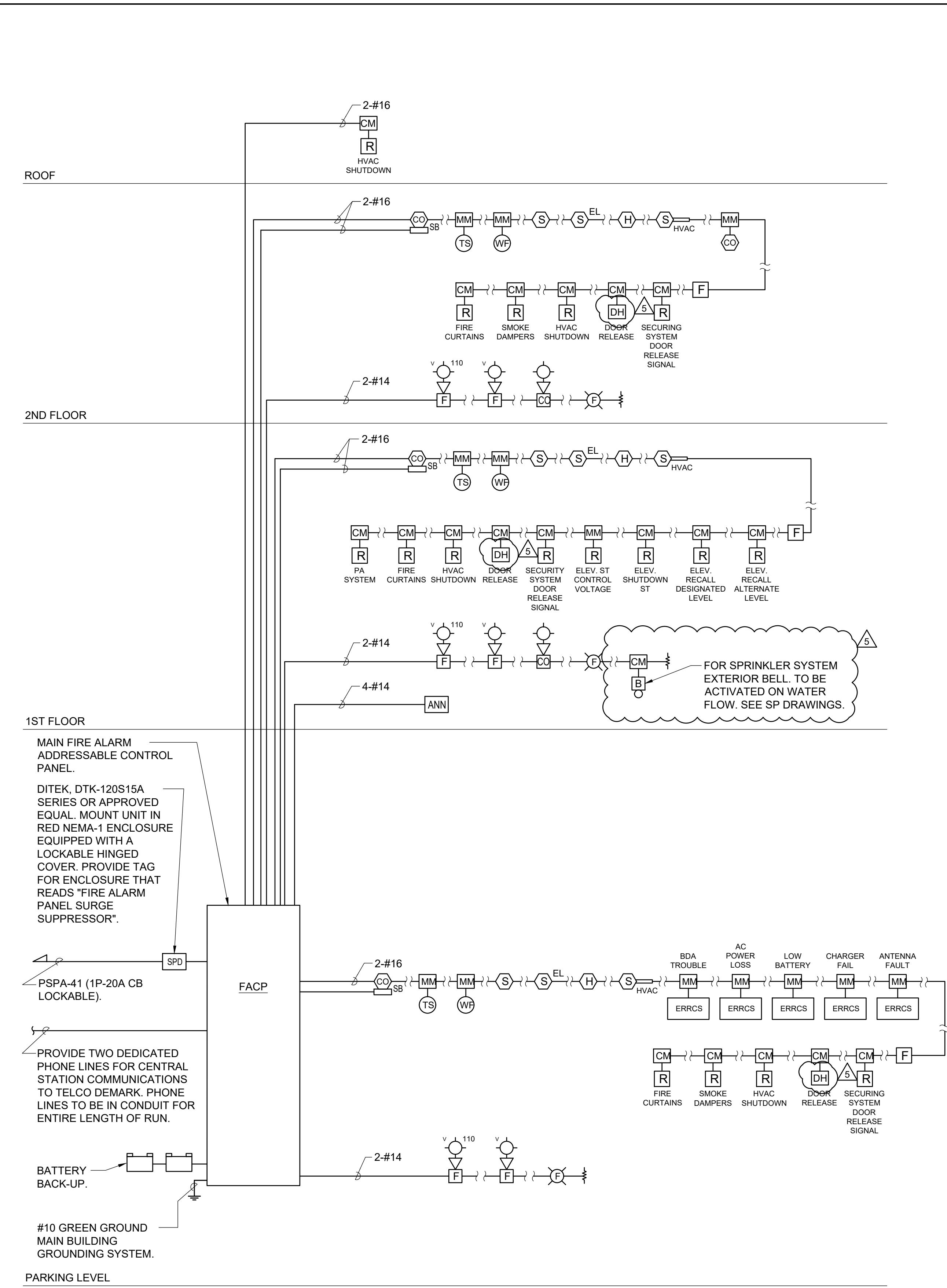
## CONSTRUCTION DOCUMENTS



**2 TELECOMMUNICATIONS GROUNDING AND CONDUIT RISER**  
SCALE: NONE



**3 FIRE RADIO RISER DIAGRAM**  
SCALE: NONE



**1 FIRE ALARM RISER DIAGRAM**  
SCALE: NONE

SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	FUSED DISCONNECT SWITCH		C	CONDUIT
	-	UNFUSED DISCONNECT SWITCH		CKT	CIRCUIT
	-	TAPPER		CLG	CEILING
	-	EQUAL POWER DIVIDER		COL	COLUMN
	-	RY012NQ_POLOMARCONI ANTENNA		DWG	DRAWING
	-	TOWERLINEQ SLC RISER		ELEV	ELEVATOR
	FACP	FIRE ALARM CONTROL PANEL		FCS	FIRE COMMAND STATION
	BATT	BATTERY BACK-UP WITH INTERNAL CHARGER		PS	POWER SUPPLY
	BDA	BI-DIRECTIONAL AMPLIFIER BOOSTER		SW	SWITCH(ES)
	-	YAGI ANTENNA WITH MOUNTING HARDWARE		TYP	TYPICAL
	-	REMOTE ANNUNCIATOR		UON	UNLESS OTHERWISE NOTED
A	AMPERE(S)		NOTES: 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.		
BLDG	BUILDING				

### WIRING/CONDUIT LEGEND:

- ① CONTROL CABLING: CAT-5e.
- ② 2-HR RATED CO-AUX CABLE IN 3/4" THAT MEETS NFPA 72, 1221 AND UL 2196 SIMILAR TO DRAGON SKIN 2HB12-50JPLR OR APPROVED EQUAL.

### NOTES:

1. RISER CABLING: PRIMARY DISTRIBUTION CABLE FOR R/F POWER IS NOT EXCLUSIVELY INSTALLED VERTICALLY.
2. BRANCH CABLING: LAST LEG DISTRIBUTION CABLE FOR R/F POWER, TYPICALLY INSTALLED ON A SINGLE FLOOR AND FEEDS ANTENNAS.
3. ALL BRANCH CABLING MUST BE ENCASED IN THE CONCRETE DECK OR OTHERWISE PROVIDED WITH TWO HOURS SURVIVABILITY.
4. CONTROL CABLING: CAT-5E. ALL CONTROL CABLING IS TO BE INSTALLED INSIDE A TWO-HOUR RATED SHAFT WAY.
5. ALL RISER CABLING IS 1/2" AIR DIELECTRIC CABLE, RED, PRINTED "FIRE DEPARTMENT COMMUNICATIONS USE" TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
6. INSTALLING CONTRACTOR TO DETERMINE FINAL DBM VALUES OF RF COMPONENTS.
7. WHERE RISER AND/OR BRANCH CABLING IS EXPOSED TO GENERAL PUBLIC, MUST BE MECHANICALLY PROTECTED AGAINST ACCIDENTAL AND INTENTIONAL DAMAGE.
8. ALL BRANCH CABLING IS 1/2" AIR DIELECTRIC CABLE WITH PLENUM RATING TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
9. RADIO AMPLIFICATION UNIT (RAU) BY TOWERIQ MODEL TAC-R414 OR CURRENT MODEL. RAU MUST BE LOCATED IN TWO HOUR RATED ROOM.
10. ALL COAXIAL CONNECTORS ARE TO BE N-TYPE CONNECTORS.
11. WHERE ANY ELECTRICAL AND R/F CONNECTION IS MADE, PHYSICAL ACCESS MUST BE AVAILABLE.
12. RAU REQUIRES A 15.30R ELECTRICAL CONNECTION TO LIFE SAFETY SOURCE. PROVIDE WITH A LOCKABLE FUSE DISCONNECT.
13. ALL INSTALLED CABLING AND COMPONENTS, WHERE PHYSICALLY ACCESSIBLE ARE TO BE LABELED "EMERGENCY RESPONDER COMMUNICATIONS USE," AT A MINIMUM INTERVAL OF 6'.
14. RAU MUST BE PROVIDED WITH INTERNET CONNECTIVITY VIA RJ-45 RECEPTACLE.
15. WHEN ENCASED IN THE DECK ALL CABLES MUST BE INSTALLED IN PROPERLY SIZED CONDUIT WITH CONSIDERATIONS FOR PULL BOXES, TURN CONNECTORS AND OTHER IN-LINE DEVICES.
16. PROVIDE FUSE QUANTITIES AND SIZES AS REQUIRED FOR SYSTEM.
17. PROVIDE WIRING AND CONDUIT AS REQUIRED.
18. NEW YORK STATE APPROVED CABINET WITH NYS/FDNY KEY AND LOCKABLE DOOR. (FCO).
19. 5-#10 IN 1".
20. 4-#4 & 1-#6 GND IN 1-1/4" FROM 3P-60A CB IN PANELBOARD. QUANTITY OF PHASE CONDUCTORS SHOWN FOR INFORMATION ONLY. PROVIDE NUMBER OF PHASE CONDUCTORS AS REQUIRED.
21. 60AS/60AF. SIZE OF FUSES SHOWN FOR INFORMATION ONLY. SIZE FUSES AND PROVIDE NUMBER OF FUSES AS REQUIRED.
22. ERRCS DISCONNECT SWITCH.
23. SEE FLOOR PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS. RISER IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANT WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM A SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

### RISER NOTES:

- 1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 5.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE TWENTY (20) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 6.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 7.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 8.) CARBON MONOXIDE AND NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY, UON.
- 9.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 10.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 11.) DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- 12.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 13.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

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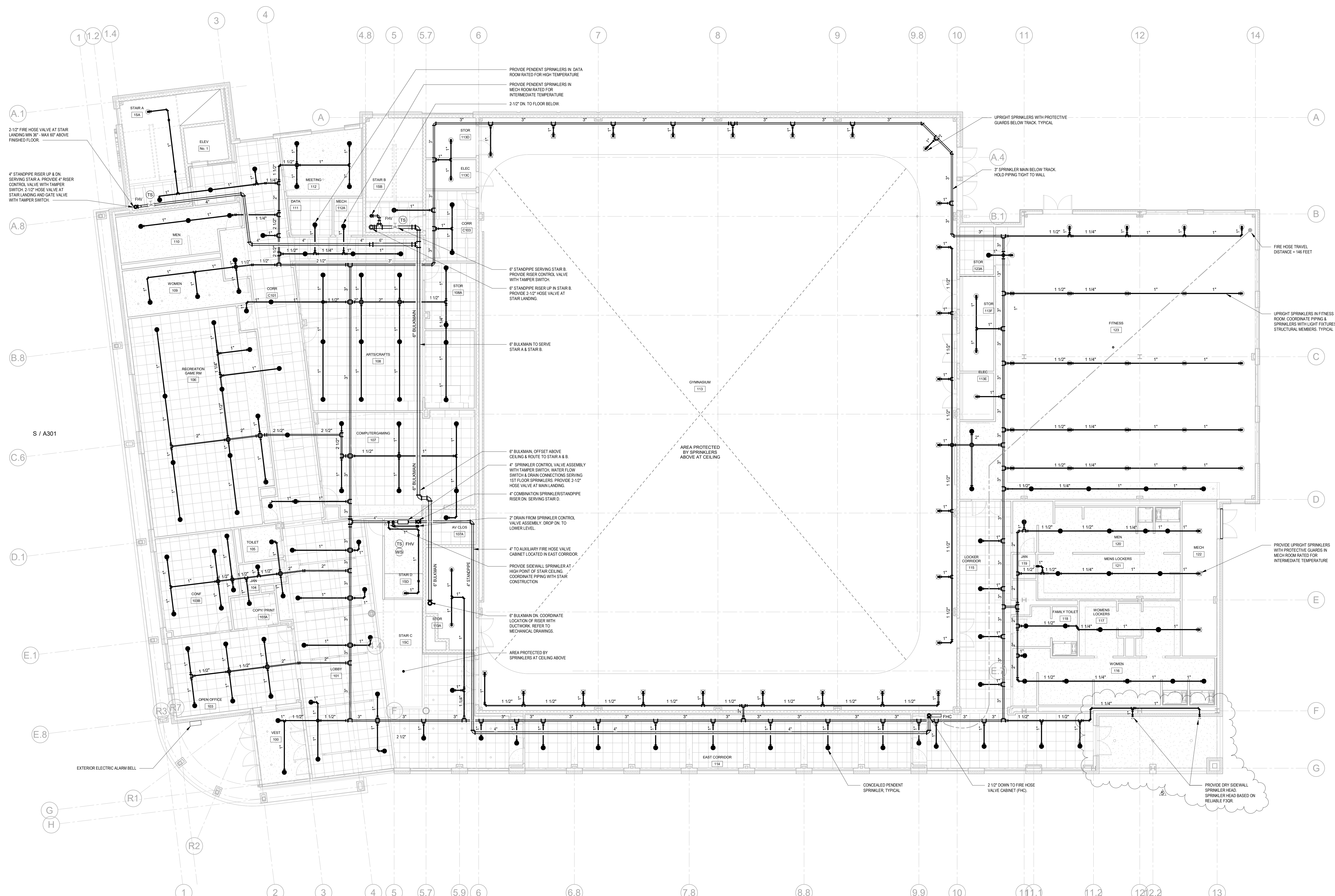
## FIRE ALARM & FIRE RADIO RISER DIAGRAM

Job No. NKGD0207.00 Date 03/01/2024  
 Scale AS NOTED Drawn / Checked M/MSDS  
 Sheet Number E-502



No.	Date	Issue
5	07/01/2024	BID ADDENDUM #2
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2	09/01/2023	DESIGN DEVELOPMENT
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Sheet Title	
<b>FIRE PROTECTION 1ST FLOOR PLAN</b>	
Job No.	Date
NKGD0207.00	01/24/2024
Scale	Drawn / Checked
AS NOTED	AM / CD
Sheet Number	
<b>FP-202</b>	



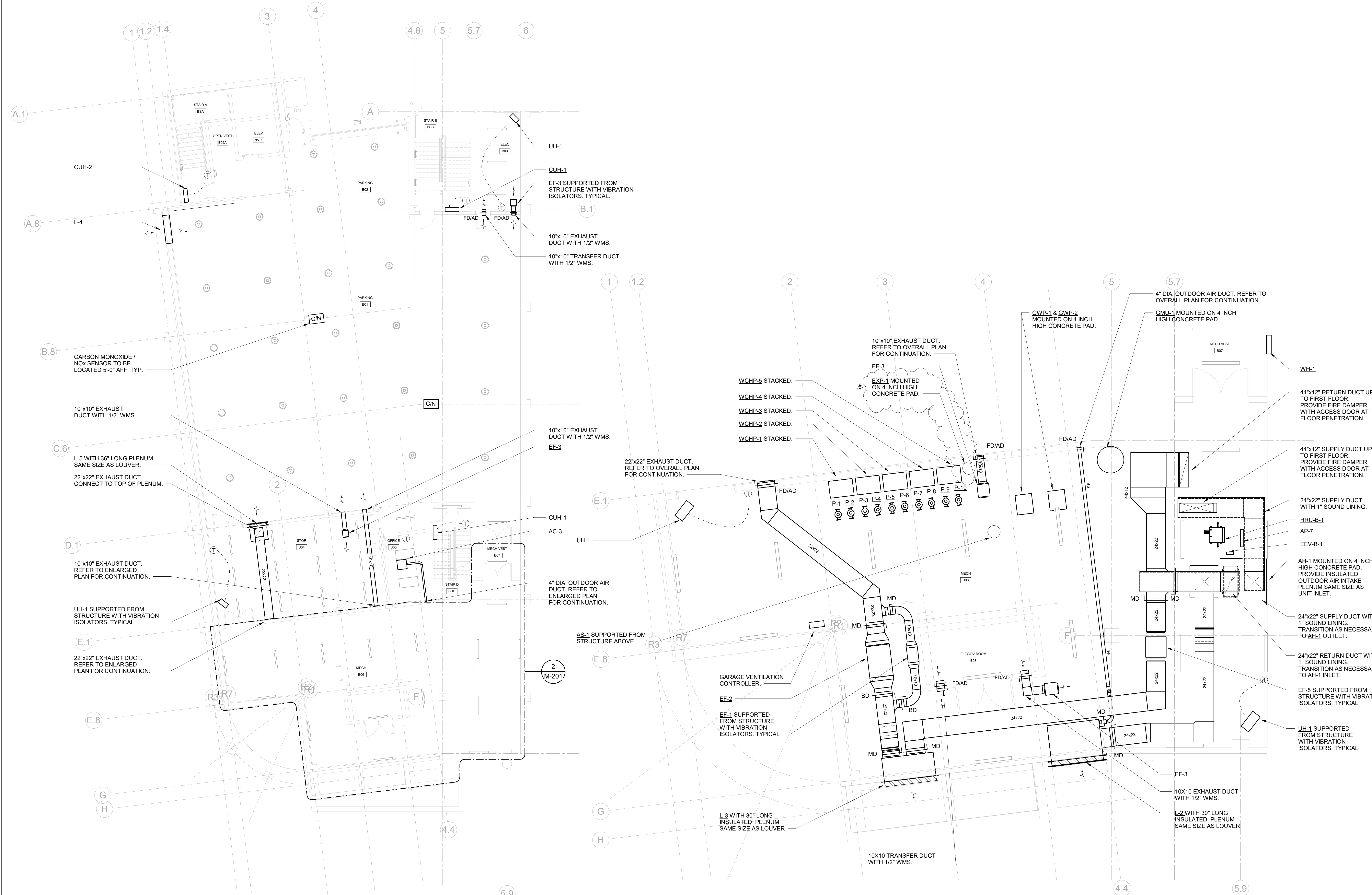
**FIRE PROTECTION 1ST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 NORTH

- NOTES:  
 1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR, TYPICAL.

No.	Date	Issue
5	07/10/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
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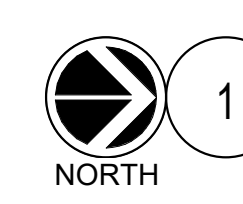
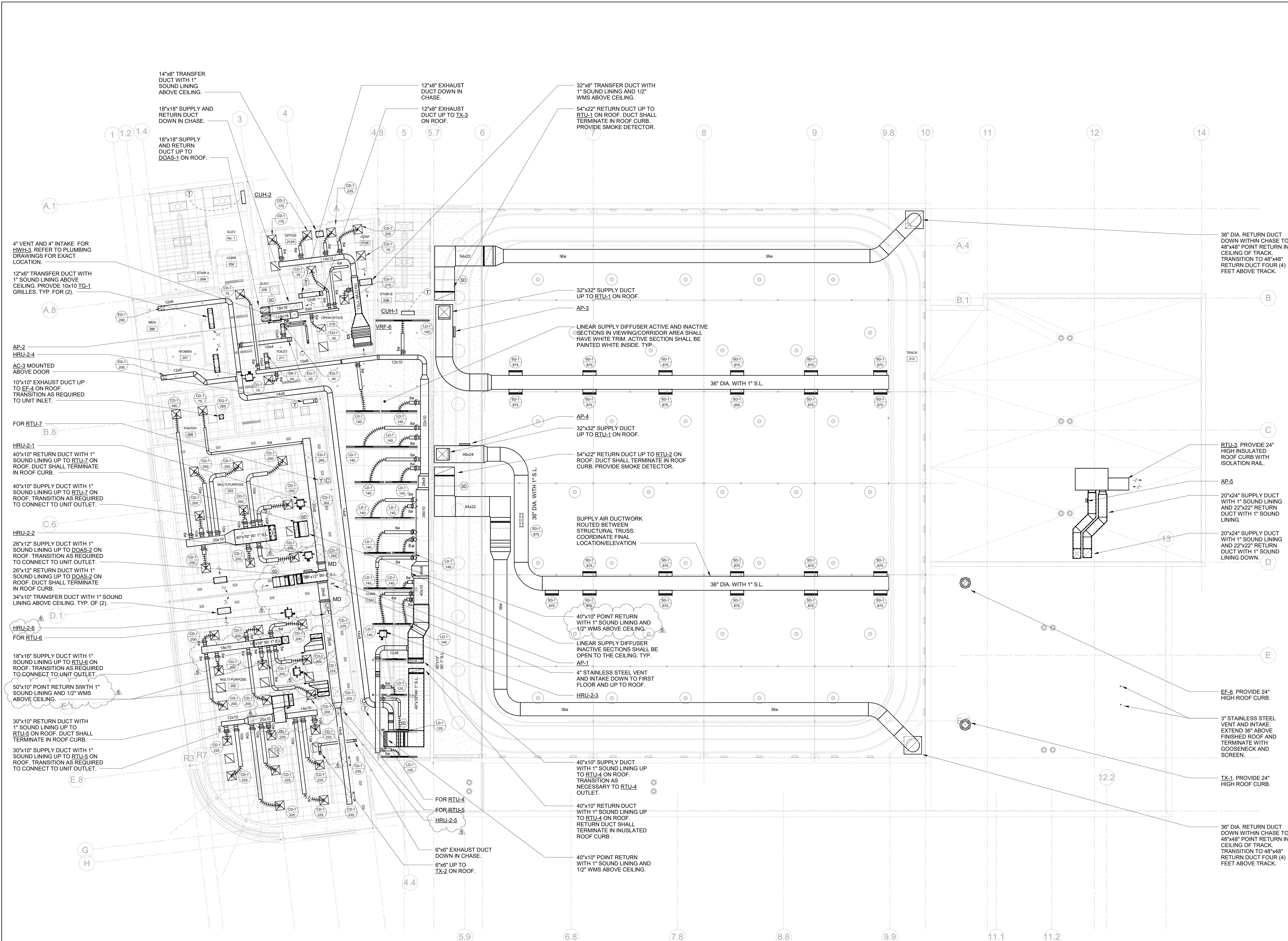
**MECHANICAL  
PARKING FLOOR  
PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	<b>M-201</b>		



**1 MECHANICAL PARKING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NOTES:  
1. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

**2 MECH B06 ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"  
NOTES:  
1. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE



**1 MECHANICAL SECOND FLOOR PLAN**

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

NOTES:

1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SCALE RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS

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New Construction - Phase 2  
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270 Harrison Avenue  
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**CONSTRUCTION DOCUMENTS**

Key Plan

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2	09/01/2023	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

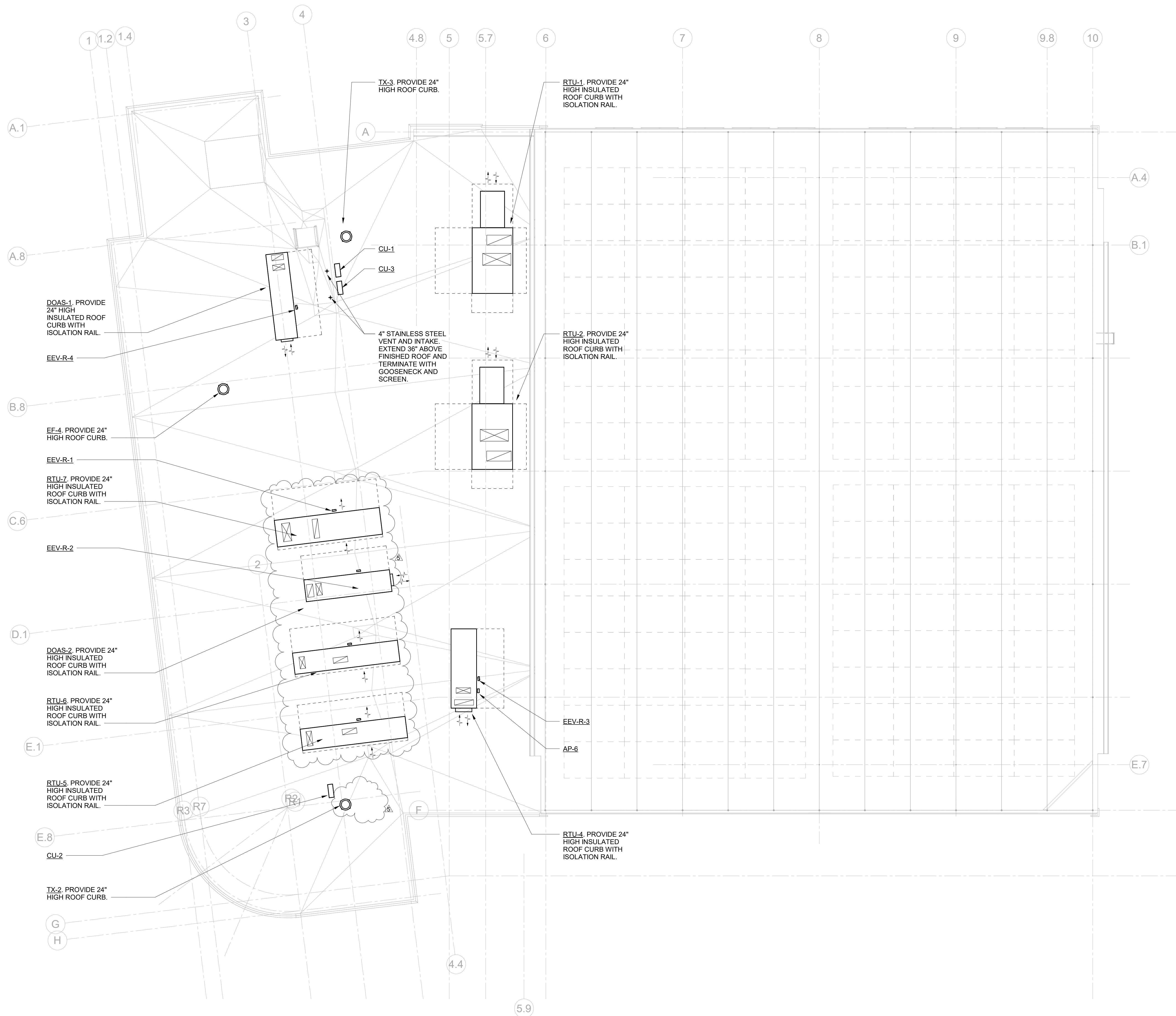
Sheet Title

**MECHANICAL  
ROOF PLAN**

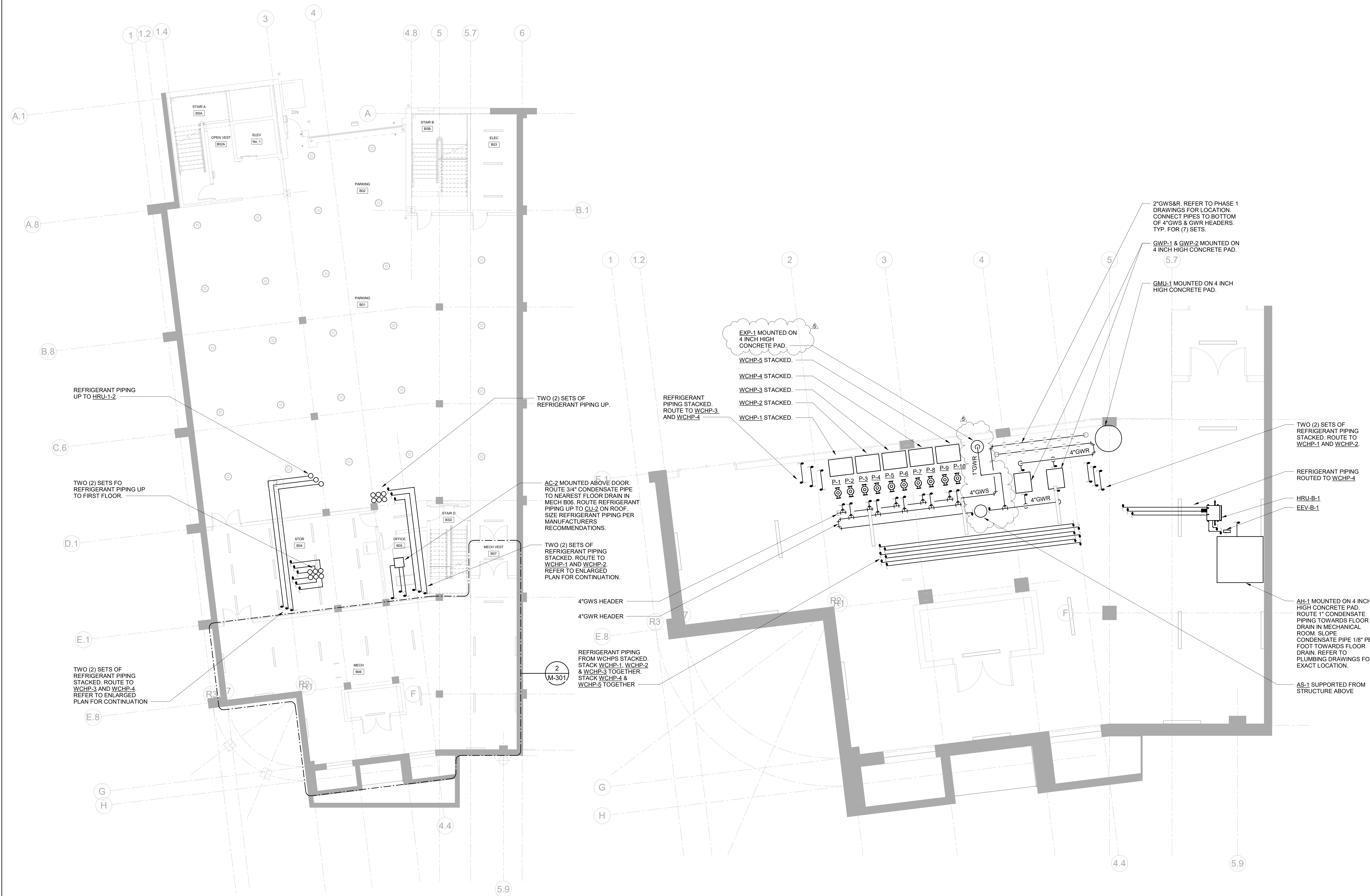
Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

**M-204**



**MECHANICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**1 MECHANICAL PARKING FLOOR PIPING PLAN**  
SCALE: 1/8" = 1'-0"  
NOTES:  
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.  
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

**2 MECH B06 ENLARGED PIPING PLAN**  
SCALE: 1/4" = 1'-0"  
NOTES:  
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.  
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

Key Plan

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2	09/01/2023	DESIGN DEVELOPMENT
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Sheet Title  
**MECHANICAL  
PARKING PIPING  
PLAN**

Job No. NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG
Sheet Number <b>M-301</b>	

No.	Date	Issue
5	07/12/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/12/2020	50% DESIGN DEVELOPMENT

Sheet Title

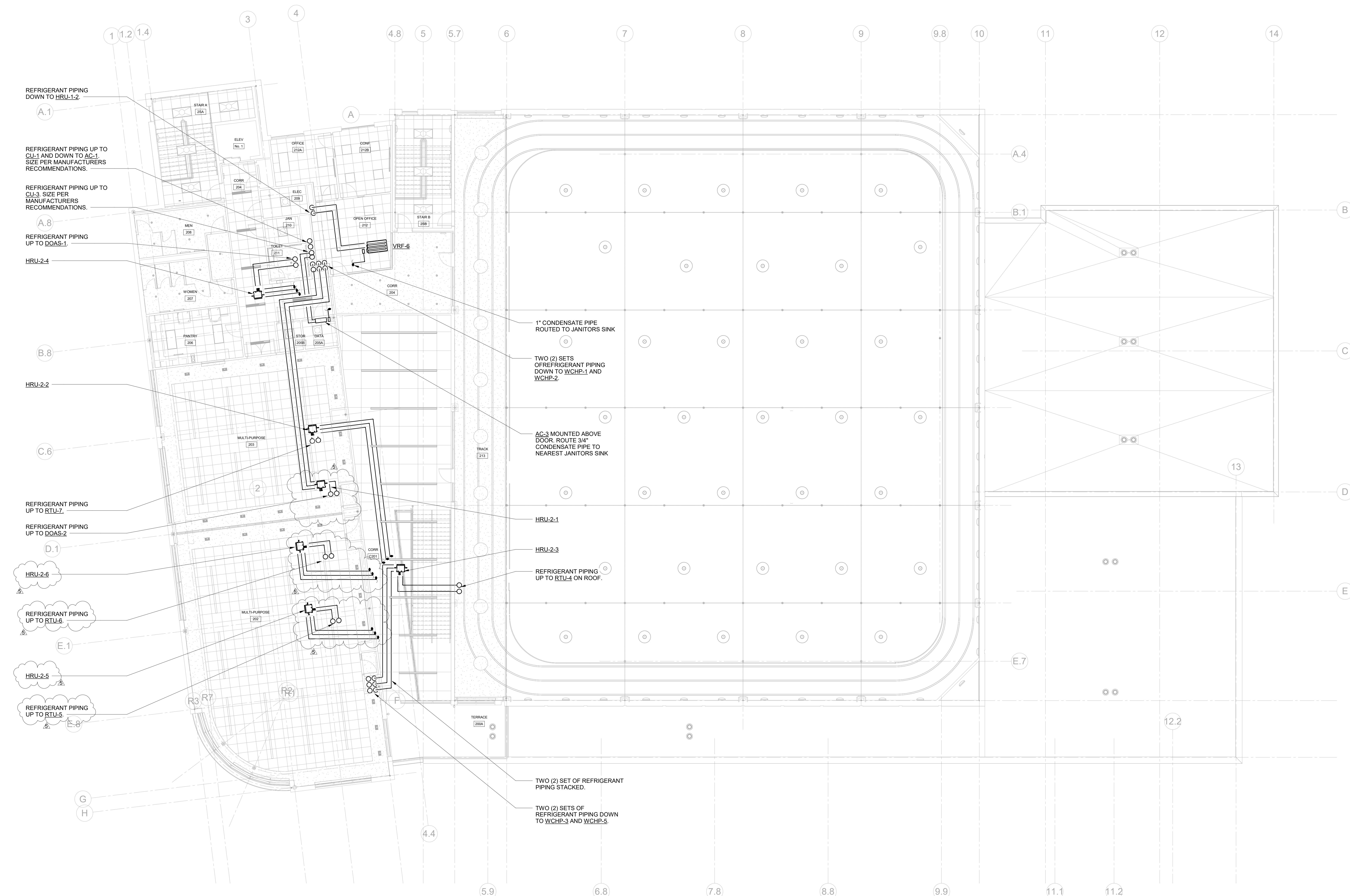
**MECHANICAL  
SECOND FLOOR  
PIPING PLAN**

Job No. NKGD0207.00 Date 02/16/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

**M-303**



**MECHANICAL SECOND FLOOR PIPING PLAN**

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

- NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
  2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
  3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



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3 01/16/2024 ISSUED FOR PERMIT

2 09/01/2023 DESIGN DEVELOPMENT

1 03/12/2020 50% DESIGN DEVELOPMENT

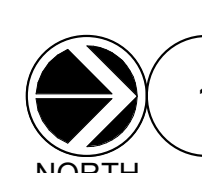
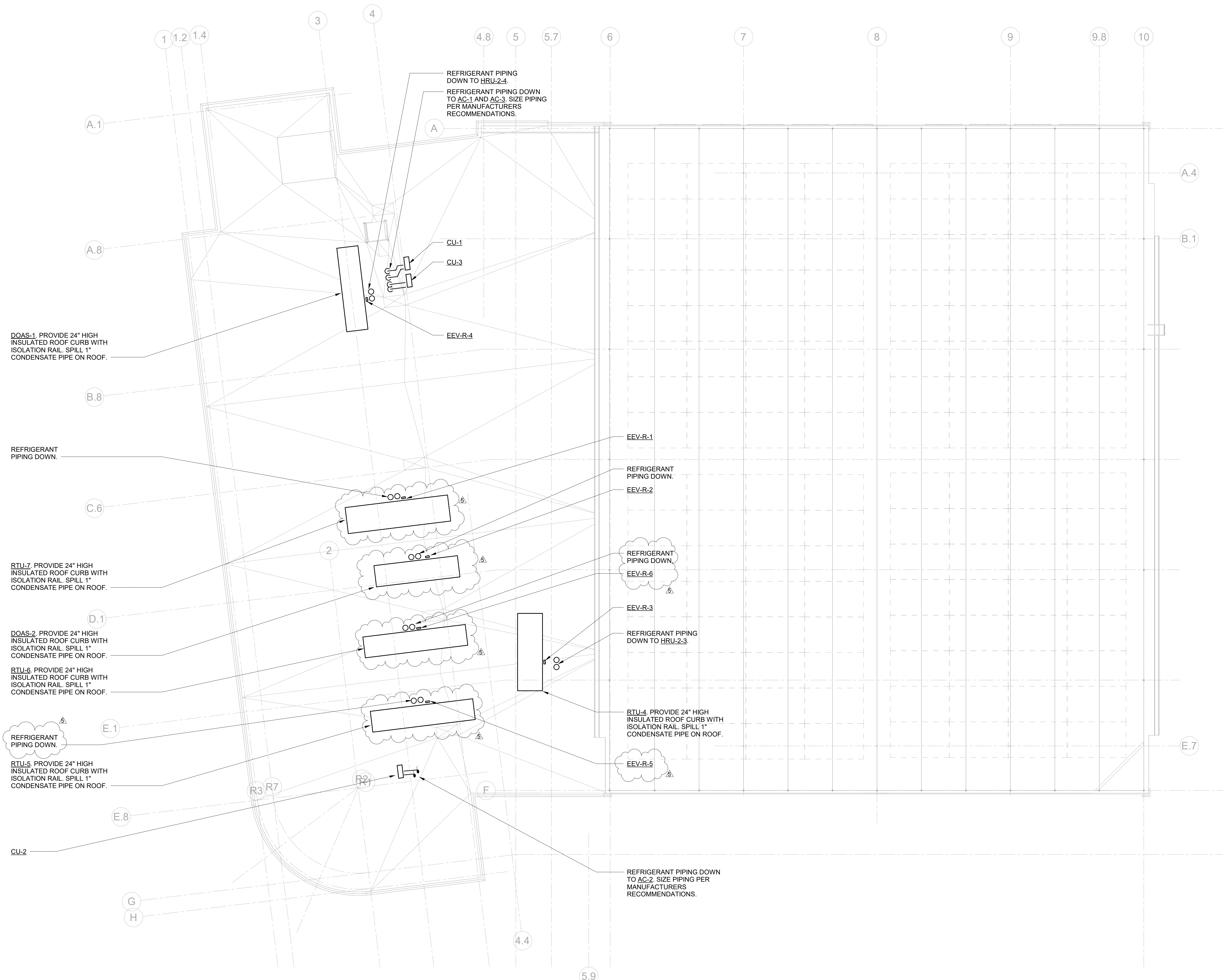
**MECHANICAL ROOF PIPING PLAN**

Job No. NKGD0207.00 Date 02/16/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

**M-304**

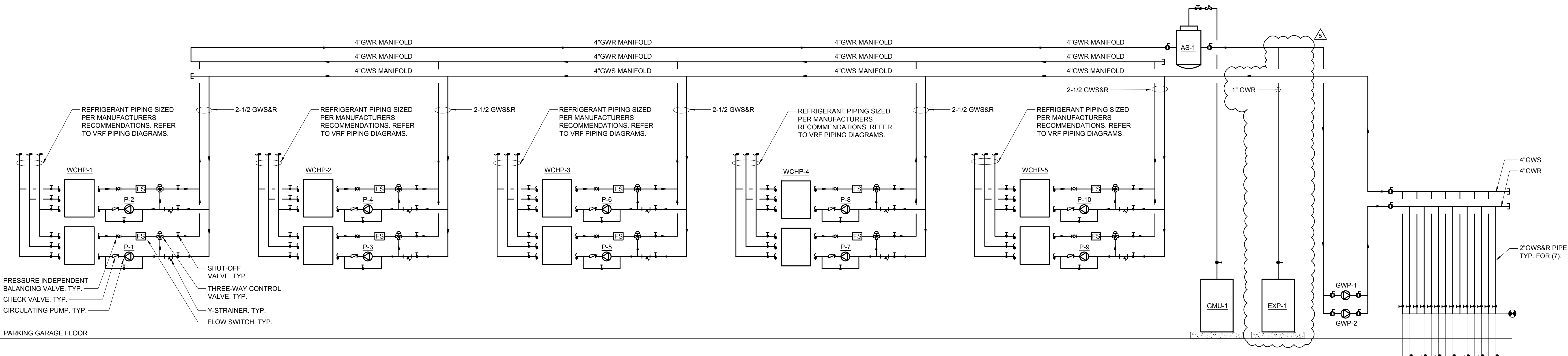


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**MECHANICAL ROOF PIPING PLAN**

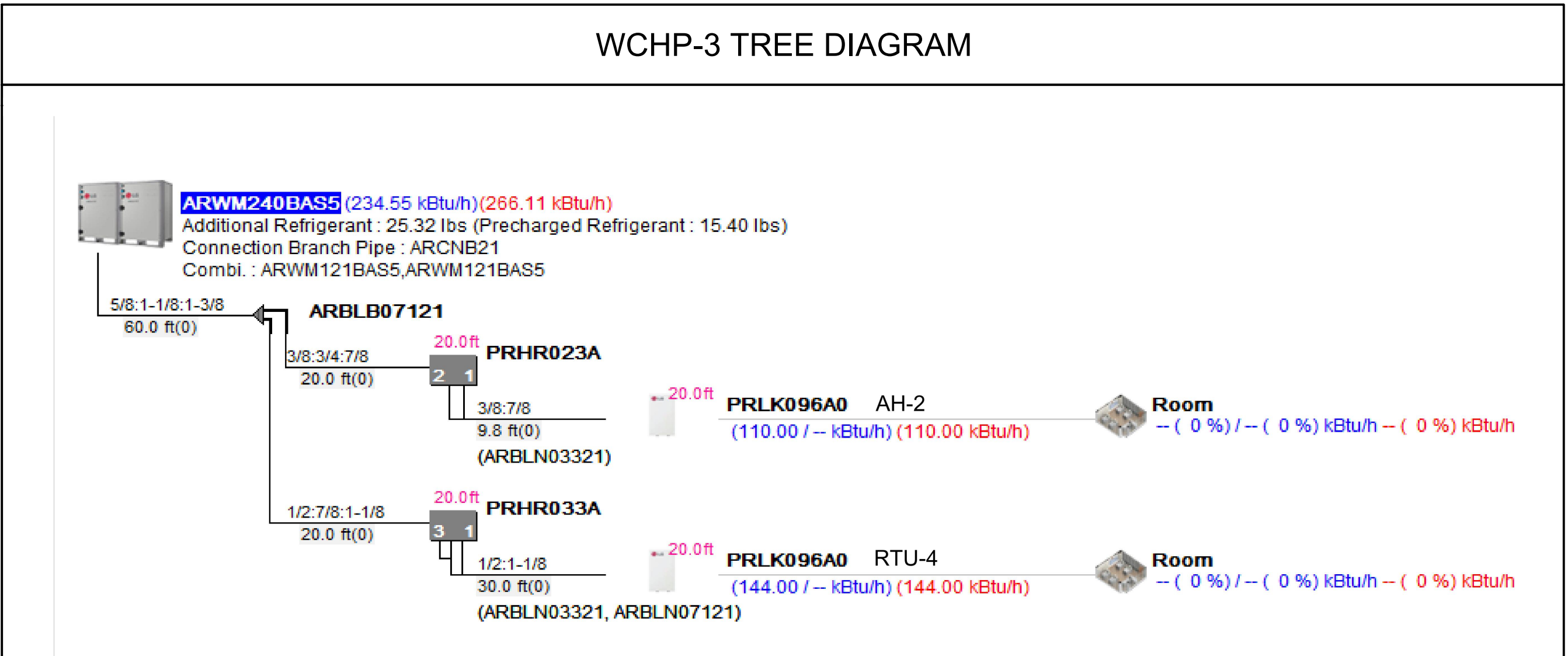
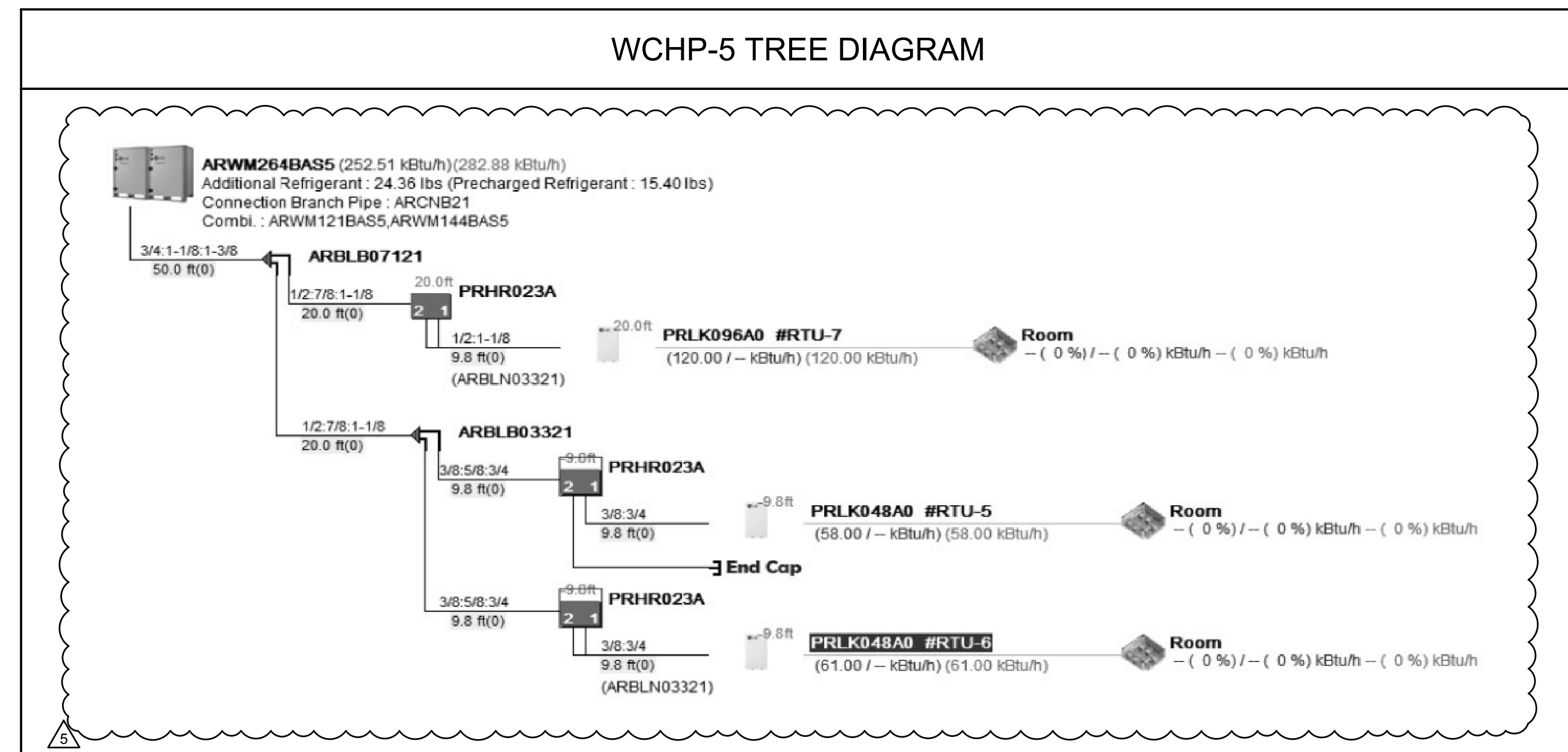
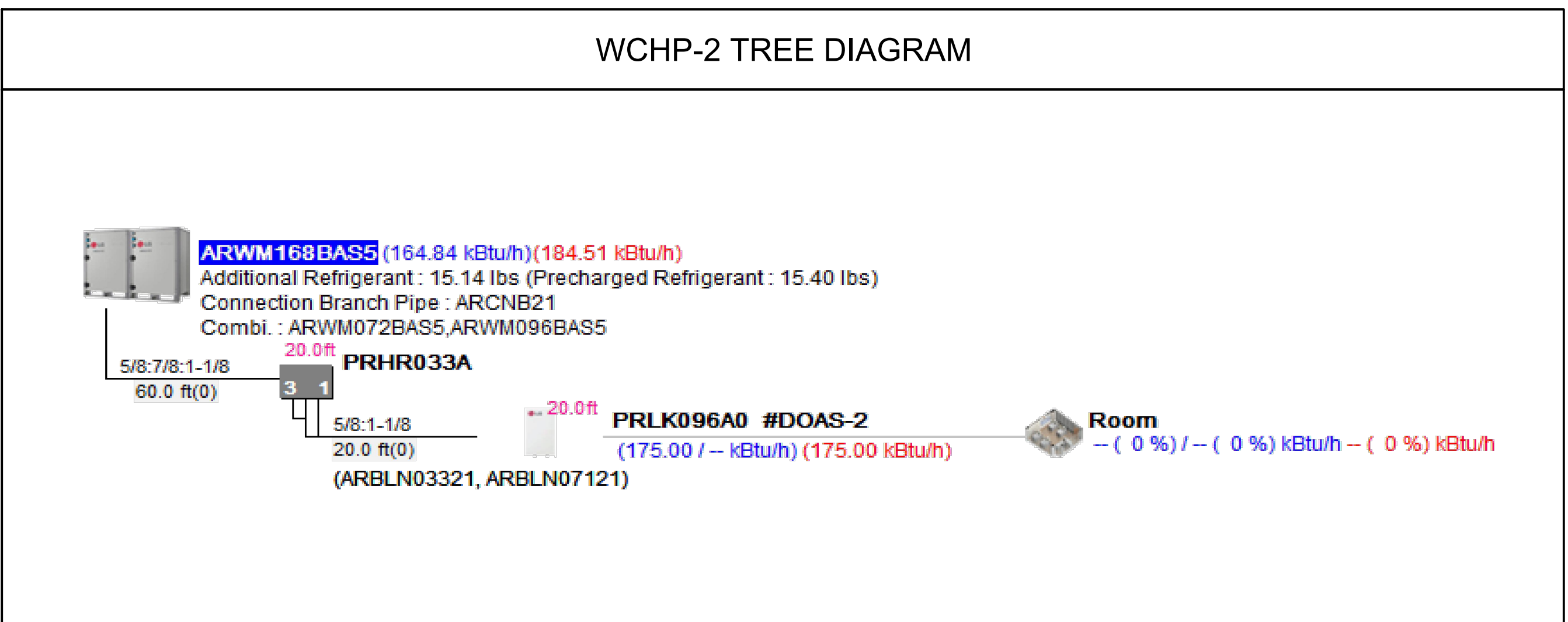
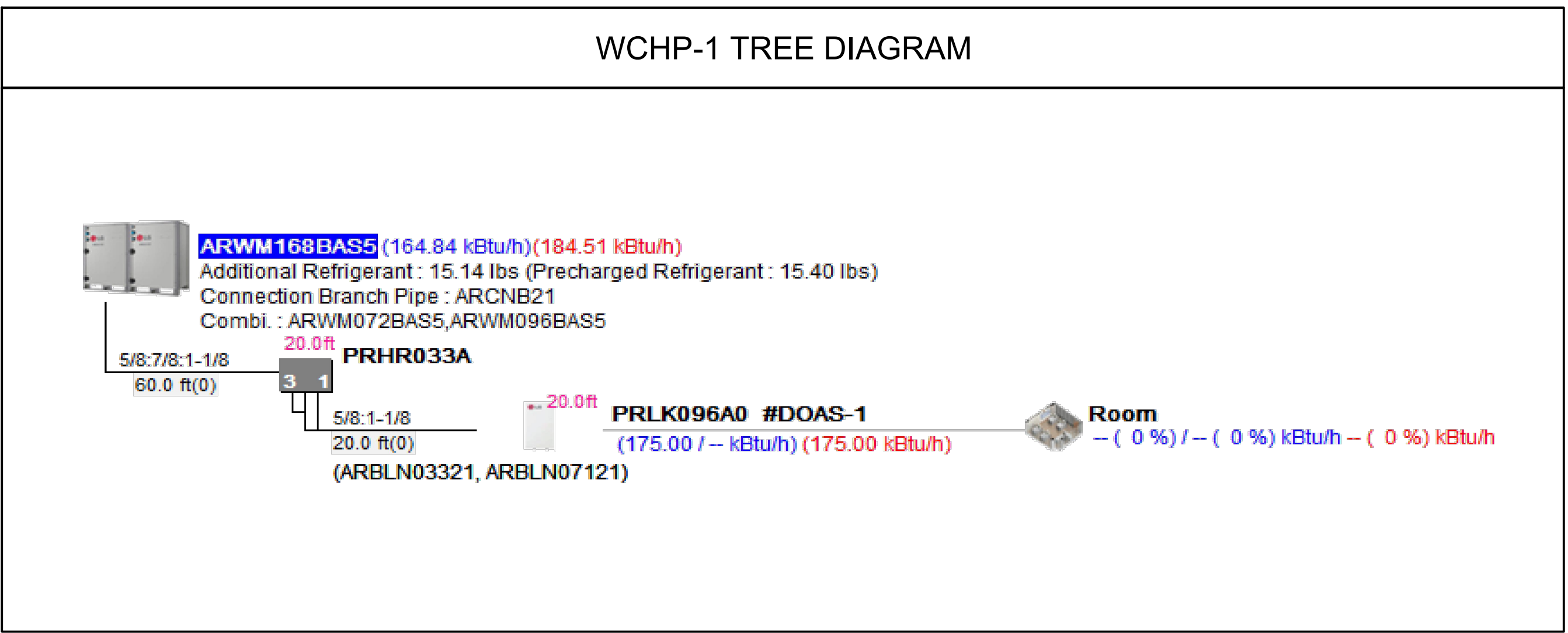
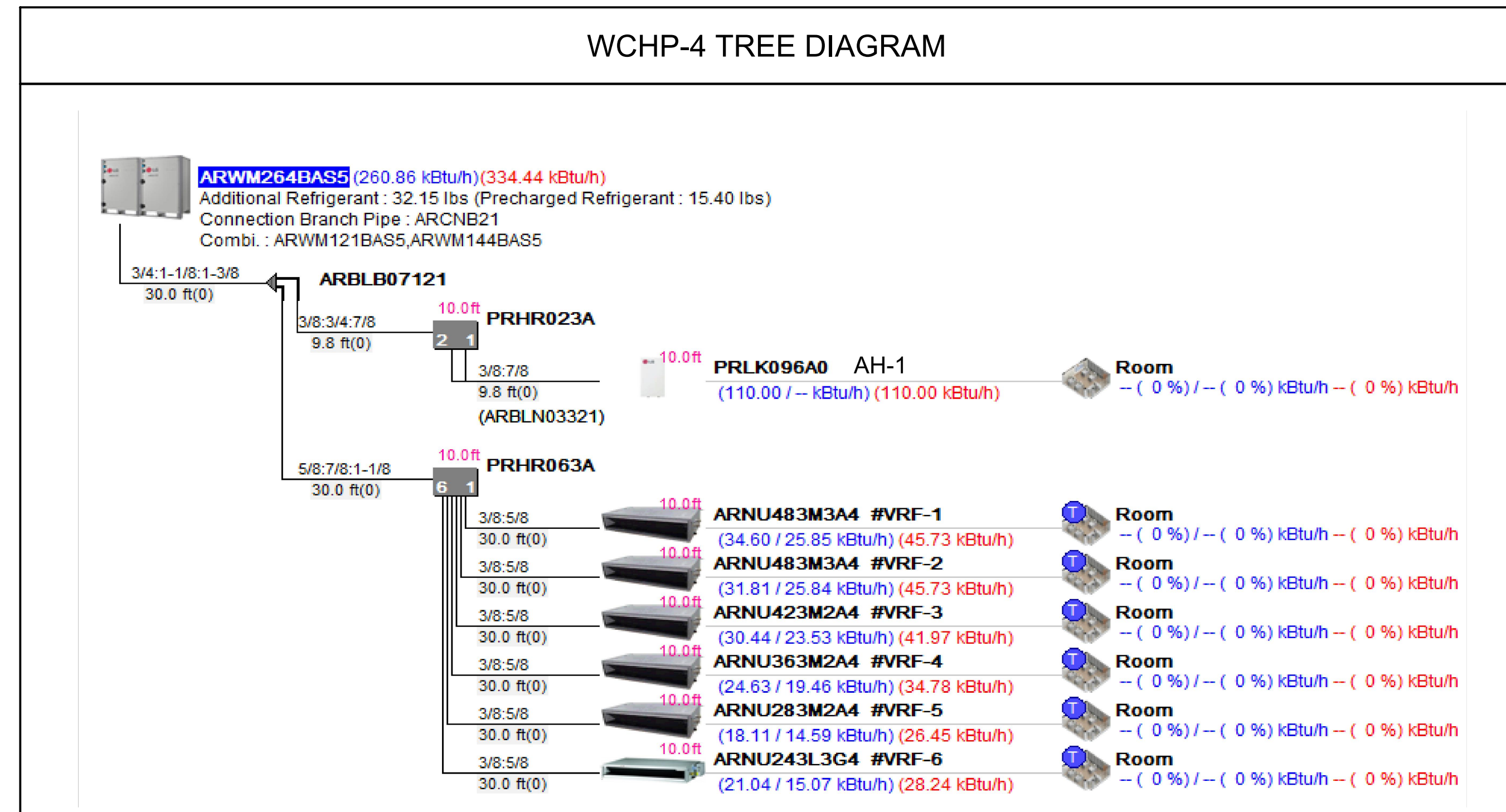
SCALE: 1/8" = 1'-0"

- NOTES:
- REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
  - PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



**1 GEOTHERMAL WATER SCHEMATIC**  
SCALE: NTS

- NOTES:
- REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. REFER TO VRF PIPING DIAGRAMS FOR ADDITIONAL INFORMATION.
  - PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



- NOTES:
- CONTRACTOR SHALL FIELD MEASURE AND DEVELOP FULL FULL VRF SYSTEM PIPING DIAGRAMS OF EACH OF THE SYSTEMS ABOVE INCLUDING LENGTHS WITH VENDOR FOR ENGINEER REVIEW.

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**MECHANICAL SCHEMATICS**

Job No. NKG0207.00	Date 03/01/2024
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HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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CONSTRUCTION DOCUMENTS

AIR HANDLER SCHEDULE

Table with columns: DESIGNATION, LOCATION, AREA SERVED, MANUFACTURER, MODEL, NOMINAL CAPACITY (TONS), WEIGHT OF UNIT (LBS), SUPPLY DUCT CONNECTION, RETURN DUCT CONNECTION, OUTSIDE AIR (CFM), SUPPLY FAN, QUANTITY, TOTAL CFM, CFM FOR EACH FAN, ESP/TSP (IN H2O), TYPE, HP FOR EACH FAN, CONTROL, COOLING PERFORMANCE, HEATING PERFORMANCE, LINES & FILTERS, CONDENSATE DRAIN LINE SIZE (IN), RETURN AIR FILTER TYPE, QUANTITY AND SIZE, ELECTRICAL DATA - SINGLE POINT POWER CONNECTION, VOLTS / Ø / Hz, MCA / MOCOP (AMPS). Includes notes on AH-1 units and duct mounted smoke detectors.

FAN SCHEDULE

Table with columns: DESIGNATION, LOCATION, AREA SERVED, MODEL, CFM, BHP, HP, FAN RPM, SP (IN H2O), VOLTS/Ø/Hz, INTERLOCK. Includes notes on fan types (Greenheck vs ACME) and motor specifications.

PUMP SCHEDULE

Table with columns: DESIGNATION, LOCATION, SYSTEM SERVED, ARRANGEMENT, MANUFACTURER, TYPE, MODEL, IMPELLER DIA. (IN.), GPM, TOTAL DYNAMIC HEAD (FT H2O), RPM, NPSH (FT. H2O), MOTOR HP, VOLTAGE/Ø/Hz, STARTER TYPE, STARTER LOCATION, DISCONNECT SWITCH AT PUMP (Y/N), INTERLOCK. Includes notes on pump materials and motor types.

LOUVER SCHEDULE

Table with columns: DESIGNATION, LOCATION, AREA SERVED, MODEL, FREE AREA (SF), MAXIMUM FACE VELOCITY (FPM), DIMENSIONS (WxH)(IN). Includes notes on louver materials and installation requirements.

AIR PURIFICATION SCHEDULE

Table with columns: DESIGNATION, MODEL, TUBE SIZE, ASSOCIATED HVAC UNIT, ELECTRICAL DATA, VOLTS / Ø / Hz, AMPS. Includes notes on air purification system and mounting requirements.

OUTDOOR AIR

Table with columns: UNIT DESIGNATION, AREA SERVED, AREA (SF), OUTDOOR AIR CFM. Lists various units and their corresponding outdoor air requirements.

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Table with columns: No., Date, Issue. Lists revision history for the drawing.

MECHANICAL EQUIPMENT, NOTES & SCHEDULES

Job No. NKGD0207.00 Date 03/01/2024 Scale AS NOTED Drawn / Checked HM / RG

Sheet Number M-603

# HARRISON RECREATION COMMUNITY CENTER PROJECT PHASE 2

On-Site Pre-Bid Meeting  
Thursday • June 13, 2024

**\*\*PLEASE ATTACH YOUR BUSINESS CARD AND COMPLETE THE FORM BELOW\*\***

**PLEASE PRINT CLEARLY WITH BLOCK LETTERS**

Name	Company Name	Phone Number	Email
Charlie Valliato	Veteran Concrete Corp.	718-530-3090	<a href="mailto:CJV713@yahoo.com">CJV713@yahoo.com</a>
Ed Horvath	ABM Air Conditioning and Heating Co.	914-747-0910, Ext. 26 • Cel: 914-469-3028	ehorvath@abmhvac.com • eddiej54@aol.com
Giuseppe Iuliucci • David Casillo	E.W. Howell Construction Group	516-506-9139 • 516-921-7100	<a href="mailto:giuliucci@ewhowell.com">giuliucci@ewhowell.com</a> • <a href="mailto:dcasillo@ewhowell.com">dcasillo@ewhowell.com</a>
Daniel Dubois	OCS Industries, Inc.	845-692-8450	<a href="mailto:ddubois@ocsindustries.com">ddubois@ocsindustries.com</a>
Emily Jaramillo	ELQ Industries	914-654-1040	<a href="mailto:ejaramillo@elqindustries.com">ejaramillo@elqindustries.com</a>
Chazz Winter • Peter Gifford	Andron Construction	203-449-2967 • 914-232-7531 • 914-301-9113 • Cell for P. Gifford: 914-712-5619	cawinter@androncc.com • pgifford@andoncc.com
Tony Cimahosky and Alfred Torreggiani, Jr.	Key Construction Services	570-228-1488 • 845-797-1420	<a href="mailto:tcimahosky@contactkcs.com">tcimahosky@contactkcs.com</a>
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## SECTION 077273 - VEGETATED ROOF SYSTEMS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Modular system of preplanted plastic modules containing a drainage layer with growth media and plant species preplaced into the module.
  - 2. Slip sheet for separation from roof membrane surface.
- B. Roofing membrane is specified in Section 075323.

#### 1.2 SUBMITTALS

- A. Product Data: Before materials are delivered to site, submit manufacturer's printed product data and specifications for all materials and components of green roof system. Include installation instructions and data substantiating that materials comply with requirements.
- B. Shop Drawings: Show roof configuration and module layout, location and type of all penetrations, termination details, and all other application details, each at an appropriate scale.
- C. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- D. Maintenance Data: For green roof system to include in the maintenance manuals specified in Division 01 Section "Closeout Procedures."
- E. Warranty: Sample copy of green roof system manufacturer's warranty stating obligations, remedies, limitations, and exclusions of warranty as stated in "Warranty" Article.
- F. Inspection Report: Copy of green roof system manufacturer's inspection report of completed installation, specified in the "Quality Assurance" Article.

#### 1.3 QUALITY ASSURANCE

- A. Manufacturer: Obtain primary green roof system materials from a single manufacturer. Provide secondary materials as produced by or accepted by manufacturer of primary materials.

- B. Installer: Green roof system and all associated work shall be installed by a firm that has five (5) years experience in the installation of green roofing systems similar to the system specified.
- C. Single-Source Responsibility: The vegetated roof assembly shall be installed in conjunction with the membrane roof system installer as a single source installer or a partnership for single source responsibility of membrane roof system warranty and vegetated roof assembly warranty covering replacement of overburden in the event roofing repair service is required.
- D. Pre-Roofing Inspection and Certification: Prior to start of installation of the work of this Section, secure a visit to the job site by a representative of the manufacturer of the roofing membrane used who shall inspect the job conditions and shall certify in writing to the Architect that each of the surfaces to which the green roof system materials will be applied is in a condition suitable for this application.
- E. Preinstallation Conference: Before installing green roof system, conduct conference at Project site to comply with requirements of Division 01 Section "Project Management and Coordination."
- F. Post-Roofing Inspection: At the completion of the installation of the green roof system, a representative of the green roof system manufacturer shall inspect the work as required to provide the manufacturer's guarantee as specified below. The representative shall either approve the work or shall order changes in the work required for approval in which case he shall reinspect the work after the changes have been made.
  - 1. Notify Architect or Owner 48 hours in advance of the date and time of inspection.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, and directions for storing.
- B. Install planted modules on rooftop within 4 hours of delivery.

#### 1.5 PROJECT CONDITIONS

- A. Weather: Proceed with green roof system work when existing and forecasted weather conditions permit work to be performed in accordance with manufacturers' recommendations and warranty requirements.
- B. Installation Season: Install during the time period of April 1 to October 15, unless otherwise recommended by manufacturer and as allowed by Owner.
- C. Coordination with Roofing Membrane Warranty: Roofing membrane manufacturer shall provide "single source" warranty that includes the vegetated cover and the membrane roofing system. covering removal and replacement of vegetated roofing system in the event repair work is required on the roof membrane.



1.6 SPECIAL PROJECT WARRANTY

- A. The warranty specified in the Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.
- B. Upon completion of this portion of the Work, and as a condition of its acceptance, deliver to the Owner the following written guarantees:
  - 1. The installer will guarantee a uniform stand of plants by watering and maintaining green roof areas until final acceptance, and will replant areas that fail to provide a uniform stand of plants until all areas are accepted by Owner.

1.7 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Provide full maintenance by skilled employees of installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until an acceptable green roof system is established, but for not less than 90 days from date of Substantial Completion. The Owner will solely determine the acceptance of the installation.

PART 2 - PRODUCT

2.1 GENERAL

- A. Basis of Design Product: Provide "GreenGrid G4 Module" Extensive Module manufactured by Weston Solutions or equal.

2.2 MATERIALS

- A. Modules: Formed from black or grey 100mil thick HDPE (100% recycled post industrial material) 24" x 24" in size, with 4-1/4" depth of modules. Modules shall have water retention reservoirs, bottom drainage holes and integrated handles.
- B. Underlayment Material: Heavy duty HDPE, Polypropylene, TPO, EPDM or recyclable PVC slip sheet/root barrier of 40-60 mil. thickness with effectively bonded seams. Material shall be compatible with roofing membrane system.
- C. Growth media shall be engineered light weight blend inorganic content, provided by module manufacturer, and appropriate for materials being planted. Saturated weight with mature vegetation shall be 26-30 lbs. per square foot.
- D. Ground Covers and Plants: Design mix of grasses, perennials and groundcovers that can thrive in non-irrigated extensive rooftop environment in project location; exact mix as approved by Architect. Plants shall be grown to maturity (approximately 95+% soil coverage) before delivery to site.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Prior to work of this Section, carefully inspect all surfaces and verify that surfaces are satisfactory so that the work of this Section may properly commence. Verify that green roof system may be installed in strict accordance with the manufacturer's current recommendations, and all pertinent codes and regulations.
- B. Examine substrates, areas, and conditions under which system will be applied, with roofing Installer present, for compliance with requirements.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected. In the event of discrepancy, immediately notify the Architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

### 3.2 SURFACE PREPARATION

- A. Clean substrate of dust, debris, and other substances detrimental to green roof system installation according to manufacturer's written instructions .
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

### 3.3 INSTALLATION

- A. Place underlayment sheet over completed and tested membrane roof. Place modules on roof surface in arrangement according to approved landscape design and shop drawings. Water modules to insure growth.

### 3.4 MAINTENANCE

- A. Maintain and establish green roof system by watering, fertilizing, weeding, trimming, replanting, and other operations. Replant bare or eroded areas and those damaged by insects or disease. Provide materials and installation the same as those used in the original installation.
- B. Watering: Provide and maintain temporary piping, hoses, and lawn-watering equipment to convey water from sources and to keep green roof system uniformly moist to a depth of 4 inches (100 mm).
  - 1. Water with fine spray at a minimum rate of 1 inch (25 mm) per week unless rainfall precipitation is adequate.

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- C. Acceptance: Upon completion of maintenance period, Owner will inspect green roof system to determine if a uniform stand of plants exists, and will accept if all requirements have been met. Upon acceptance, Owner will assume maintenance of green roof system.

END OF SECTION 077273