

SUBJECT: A report and recommendation on permitting improvements for the Verizon facility at 1200 W. 8th Street in Queensgate and within the boundary of Interim Development Control Overlay District No. 89, “Data Centers.”

GENERAL INFORMATION:

Location: 1200 W. 8th Street
Cincinnati, OH 45203

Applicant: Dalmatian Fire Incorporated
7785 East Kemper Road
Cincinnati, OH 45249

Property Owner: Sousa Realty Group LLC
P.O. Box 307
Newport, KY 41072

ATTACHMENTS:

Provided in addition to this report are:

- Exhibit A – Location Map
- Exhibit B – IDC Review Criteria
- Exhibit C – Permit Application 2026P05690
- Exhibit D – Application Materials

BACKGROUND:

In January 2026, the Department of City Planning and Engagement received a directive from the City Manager to conduct a zoning study regarding the potential impacts of data centers and propose an Interim Development Control (IDC) Overlay District over certain zoning districts within the City of Cincinnati for the duration of the study. According to §1431-01, the purpose of the IDC Overlay District is “to temporarily regulate the establishment of uses, construction of new buildings and demolition or alteration of existing structures in areas where the adoption of amendments to the Cincinnati Zoning Code have been proposed in a comprehensive plan, community plan, urban design plan or urban renewal plan approved by the City Planning Commission.”

The City Planning Commission recommended approval of an emergency three-month IDC to Cincinnati City Council on February 6, 2026, and Cincinnati City Council approved the establishment of IDC No. 89, “Data Centers,” on February 11, 2026. After initial work on the zoning study, the Department of City Planning and Engagement identified a need for a nine-month extension of IDC No. 89 to conduct the full zoning study. The City Planning Commission recommended approval of the IDC No. 89 extension to Cincinnati City Council on March 6, 2026, and Cincinnati City Council approved the extension on April 1, 2026, which puts the IDC in effect for one year (February 11, 2026 – February 11, 2027) or until the zoning study is complete and any proposed text amendments are approved. IDC No. 89 provides that the following permits and approvals are subject to review by the Department of City Planning and Engagement and the City Planning Commission:

- Building permits, certificates of compliance, and certificates of appropriateness for new

- construction, alterations, modification, or expansion of data centers;
- Changes in use to a data center; and/or
- Site improvements associated with data centers.

The City Planning Commission (CPC) is being asked to review improvements to an existing Verizon network facility at 1200 W. 8th Street in Queensgate, including an upgrade to the generator. The telecommunications facility was originally permitted in 2002. The facility is a Point of Presence, which according to NetworkEncyclopedia.com is a “physical location... where two or more different networks of communication devices share a connection.” PoPs are the local nodes that connect users to the “broader Internet ecosystem.” The physical infrastructure of PoPs includes servers, routers and switches, security appliances, load balancers, and connectivity modules. Essentially, PoPs house the materials necessary to facilitate the receipt and distribution of data.

Building permit application 2026P05690 is being reviewed under Interim Development Control District No. 89, “Data Centers,” because the physical infrastructure closely resembles that of data centers and because many municipalities include “telecommunications facilities” under the definition of “Data Center” in the zoning code. The City of Cincinnati has not yet adopted any amendments to the Zoning Code to define “Data Center.” Therefore, a broad definition as adopted by other municipalities is being employed to ensure that proposed developments do not “detrimentally or adversely impact the implementation of any potential zoning code map amendments that may result from the zoning study” as stated in the establishment of IDC No. 89.

The details of the proposed upgrades are as follows: electrical service upgrades, generator replacement, new concrete pavement/slab, and a new security fence and bollards. Detailed floor plans of the new work showing the general construction plan, air distribution, and mechanical piping are all included in Exhibit D.

ANALYSIS:

According to the approved Emergency Ordinance that established IDC No. 89, the overlay was put in place to ensure that any development during the pendency of the City’s zoning study will conform to all applicable laws, ordinances, and is in the public interest. Cincinnati Municipal Code Section 1431-17 and the adopted Application Review Guidelines (Exhibit B) for IDC No. 89 is intended to maximize both the public interest and private benefits. Under Cincinnati Municipal Code Section 1431-17, the Department of City Planning and Engagement (DCPE) finds:

- (a) **Proposed Work Permitted by Current and Proposed Zoning.** The proposed work is permitted or conditionally permitted in the base district, conforms to all standards and performance criteria of the Cincinnati Zoning Code and does not conflict with any proposed amendment to the Cincinnati Zoning Code then under consideration by the City Planning Commission or Council.

The underlying zoning is Manufacturing General – Transportation Corridor (MG-T). The Verizon facility functions as a communications facility, which is permitted within the Manufacturing General zoning district.

- (b) **Proposed Work Compatibility.** The proposed work is compatible with the predominant or prevailing land use, building and structure patterns in the surrounding neighborhood and community.

The proposed work to upgrade the Verizon facility is compatible with the predominant land use. Directly north across 9th Street is an existing data center, H5 Data Centers Cincinnati II.

On the east side across Dalton Street there are warehouses and office spaces. On the south side across 8th Street, there is a maintenance garage. The parcel bounding the west side of the subject property is a warehouse. This is a highly industrial area; the closest non-industrial zoning district is “Commercial General – Auto-oriented – Transportation” and is over 1000-feet from the subject property.

- (c) **No Detrimental Effect to the Public.** The proposed work is not detrimental to the public peace, health, safety or general welfare.

The proposed work is not detrimental to the public peace, health, safety or general welfare. There are no surrounding residential or natural uses surrounding the property.

- (d) **No Adverse Effect on Adjoining Properties.** The proposed work has no adverse effect on the access to the property for fire and police protection and adequate public facilities and services, access to light and air from adjoining properties, traffic conditions, transportation requirements and facilities or development and use of adjacent land, structures and buildings.

The proposed work will have no adverse effect on access to the property or adjoining properties.

Upon consideration of the factors set forth by the Application Review Guidelines, DCPE determines that the application conforms to applicable laws, ordinances, and regulations and is in the public interest, finding:

- (a) **Neighborhood Compatibility and Community Character.** The proposal has a density, scale, size, location, programmatic configuration or function, and use that is compatible with the prevailing site development patterns of adjacent and abutting properties and will not have a material net cumulative adverse impact on the community’s health or general welfare.

The proposal to upgrade the existing Verizon facility will not significantly change the footprint of the building or the configuration of the site. The density, scale, location, and function of the facility is compatible with the existing development pattern of one- to two-story industrial and office buildings.

- (b) **Zoning.** The proposed work conforms to the underlying zone district regulations and is in harmony with the general purpose and intent of the Cincinnati Zoning Code.

The proposed work conforms to the underlying zoning district regulations; the Zoning Division of the Department of City Planning and Engagement approved the permit application as it is a renovation of an existing permitted use.

- (c) **No Other Practical Uses.** There are no other practical or economic uses of the subject property currently permitted in the underlying district.

Given that the subject permits are related to an expansion of an existing Verizon facility; this criterion is not applicable.

- (d) **Power and Utility Coordination.** The proposal includes electrical grid impact studies and demonstration of available electrical capacity to serve the proposed use without adverse impacts to existing customers and is designed to avoid disharmonious development patterns.

The proposed improvements will not require any significant power and utility coordination and the power is available without additional facilities in the 9th Street right-of-way. A load calculation was sent to Duke energy for the utility upgrade portion of this project, including the current power configuration and the final power configuration once project is complete.

- (e) **Water Use and Availability.** The proposal is designed to avoid excessive water consumption that may impair service to existing customers or exceed the public water system capacity.

Per the applicant, the facility is cooled by up flow Computer Room Air Conditioning (CRAC) units ducted to the equipment space with heat rejection to outside air-cooled condensers. The water for the facility is sourced from a Greater Cincinnati Water Works 6-inch water main within W. 9th Street. Water is only discharged for fire sprinklers, humidifier makeup water, and toilets/sinks. There will be no changes to the water consumption of the facility as all the cooling equipment is air-cooling.

- (f) **Stormwater Management.** The proposal is designed to address and minimize potential adverse effects relating to off-site stormwater runoff owing to any relative increase in impervious surface area or decrease in vegetative land cover related to the proposed development.

No additional stormwater management is required of the project since it is entirely contained in an existing structure. The proposed work would involve using the stockpile from excavation for erosion and perimeter control. Excavation would be kept as minimal as possible as less than one acre of land (18' x 22' concrete pad and minor trenching from utility transformer to building exterior wall) will be disturbed.

- (g) **Guidelines.** The proposal conforms to any guidelines adopted or approved by Council for the district in which the proposed work is located.

The proposal conforms to the purpose of the Manufacturing General zoning district and the 2011 Revive Cincinnati Plan (see below), both of which were approved by City Council.

- (h) **Plans.** The proposal conforms to a comprehensive plan, any applicable urban design or other plan officially adopted by Council, and any applicable community plan approved by the City Planning Commission.

The 2011 Revive Cincinnati Lower Mill Creek Valley Plan proposed that the subject area remain industrial on the proposed land use map (Page 74).

- (i) **Proposed Zoning Amendments.** The proposed work is consistent with any proposed amendment to the zoning code then under consideration by the City Planning Commission or Council.

DCPE staff are currently undertaking a zoning study which includes research and analysis of data centers related to public interests and services, case study and best practice research, and community engagement. At the time of this analysis, there are no proposed zoning text amendments related to the expansion of existing data center uses.

However, research conducted by City staff during the course of the zoning study associated with IDC No. 89 indicates that a facility with a total power capacity of 664KW (0.664MW) as proposed would be classified as a small data center. According to guidance from OKI released in March 2026, a mid-scale data center could have a total capacity of 20-100MW. Additionally, the building is smaller than 5,000 sq. ft., which is consistent with a small/edge data center size according to the California Learning Research Network.

- (j) **Adverse Effects.** Whether the proposal is likely to impose any adverse effect on the access to the property by fire, police, or other public services; traffic conditions; sonic impacts; air quality; or the development, usefulness or value of neighboring land and buildings.

Adding data center equipment capacity will have no adverse external effects on the access to the property by emergency or public services or traffic conditions. The proposed alterations,

including an additional diesel generator, will be run on a monthly basis for an hour for maintenance and service checks. The only other time the generator would run would be in the event of utility power loss in order to maintain operations of Verizon telecommunication services. As such, there will not be any significant adverse effect on the neighboring land or businesses.

- (k) **Public Benefits.** Whether the proposed work is likely to provide any economic or other public benefits to the City.

This facility supports a broad range of Verizon network products and services including infrastructure for local and long-distance systems, voice switching platforms, and 911 services for the Cincinnati area.

CONSISTENCY WITH PLANS:

Plan Cincinnati (2012)

The approval of improvements for the Verizon facility is consistent with *Plan Cincinnati's* Compete initiative area strategy to "Grow our own by focusing on retention, expansion, and relocation of existing businesses" (p. 104) by permitting upgrades that will allow for the continued reliability of Verizon's communication services.

Revive Cincinnati – Neighborhoods of the Lower Mill Creek Valley (2011)

The proposed improvements are consistent with the proposed future land use map and the guiding principles for development for Queensgate and the West End in the Revive Cincinnati Lower Mill Creek Valley Plan (Page 74).

RECOMMENDATION:

The staff of the Department of City Planning and Engagement recommends that the City Planning Commission take the following actions:

- 1) **ADOPT** the Department of City Planning and Engagement staff findings as outlined on pages 1-5 of this report; and
- 2) **APPROVE** the permit applications, as shown in Exhibit D attached hereto and incorporated herein by reference for upgrades to the Verizon facility located at 1200 W. 8th Street in Queensgate and within the boundary of Interim Development Control Overlay District No. 89, "Data Centers."

Respectfully submitted:



Sophia Ferries-Rowe, City Planner
Department of City Planning and Engagement

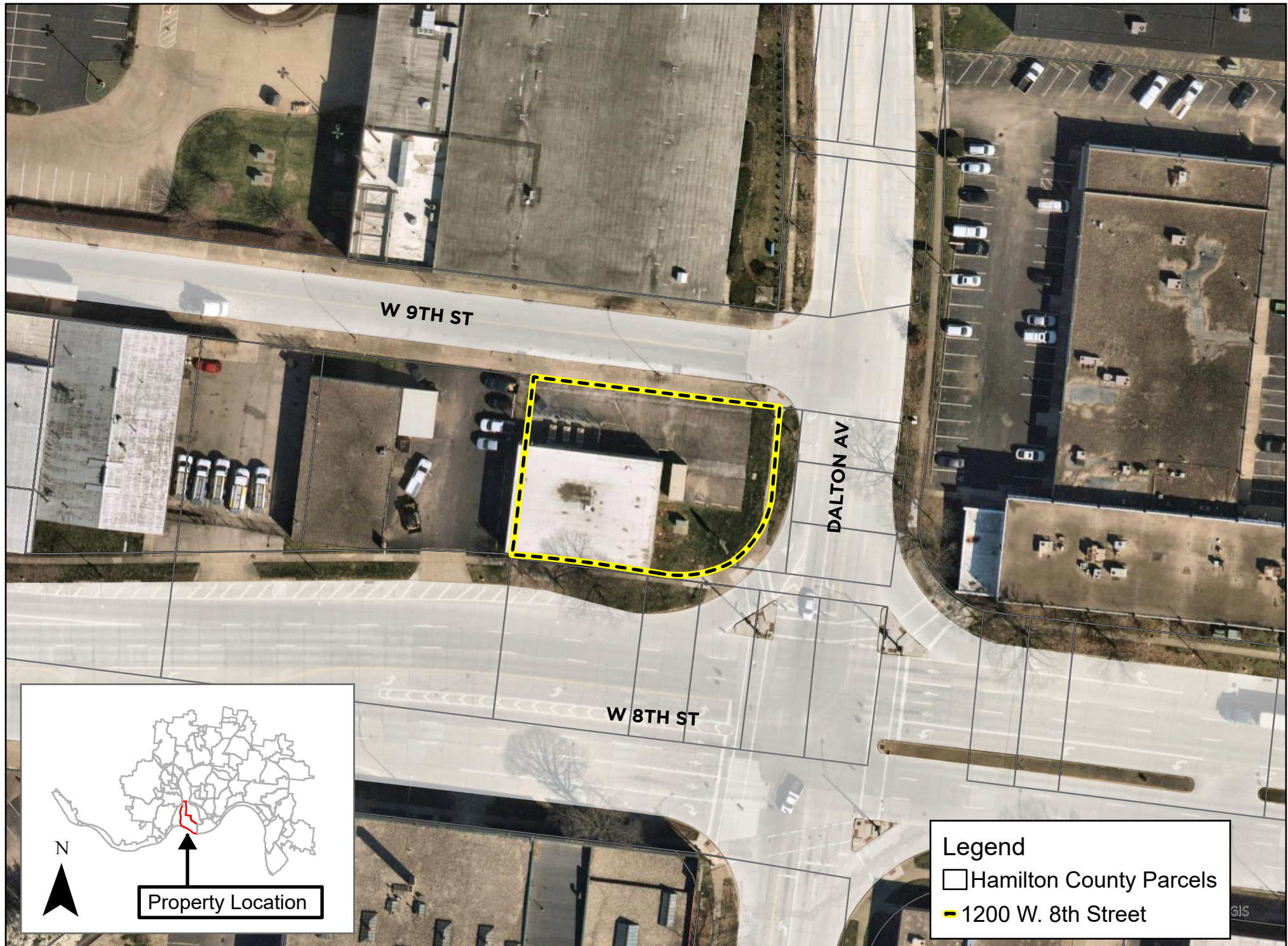
Approved:



Katherine Keough-Jurs, FAICP, Director
Department of City Planning and Engagement

Proposed Improvements for Verizon Facility at 1200 W. 8th Street in Queensgate

Exhibit A



**Regulations and Application Review Guidelines for
Interim Development Control Overlay District No. 89,
“Data Centers,” and
Designation of Administrative Reviewer**

Section I. Applications Subject to Review:

The following applications shall be reviewed by the City Planning Commission during the pendency of Interim Development Control Overlay District No. 89, “Data Centers”:

(a) Building permits for:

- i. new construction of data centers;
- ii. alteration, modification, or expansion of data centers;
- iii. changes in use to a data center; and
- iv. site improvements associated with data centers.

(b) Certificates of compliance for:

- i. new construction of data centers;
- ii. alteration, modification, or expansion of data centers;
- iii. changes in use to a data center; and
- iv. site improvements associated with data centers.

(c) Certificates of appropriateness for:

- i. new construction of data centers;
- ii. alteration, modification, or expansion of data centers;
- iii. changes in use to a data center; and
- iv. site improvements associated with data centers.

Section II. Designated Administrative Reviewer:

Council designates the Department of City Planning and Engagement as the staff reviewing authority for Interim Development Control Overlay District No. 89, “Data Centers.”

Section III. Application Review Guidelines:

In addition to any other necessary reviews and approvals as required by the Cincinnati Municipal Code and any other applicable laws, any application subject to review in Section I above shall be reviewed by the City Planning Commission to determine whether the application conforms to all applicable laws, ordinances, and regulations and is in the public interest.

In determining whether the application is in the public interest, the City Planning Commission shall consider those factors listed below that are relevant to the application. The application's failure to conform to any single factor is not necessarily a sufficient basis for denial.

- a) *Neighborhood Compatibility and Community Character.* The proposal has a density, scale, size, location, programmatic configuration or function, and use that is compatible with the prevailing site development patterns of adjacent and abutting properties and will not have a material net cumulative adverse impact on the community's health or general welfare.
- b) *Zoning.* The proposed work conforms to the underlying zone district regulations and is in harmony with the general purposes and intent of the Cincinnati Zoning Code.
- c) *Power and Utility Coordination.* The proposal includes electrical grid impact studies and demonstration of available electrical capacity to serve the proposed use without adverse impacts to existing customers and is designed to avoid disharmonious development patterns.
- d) *Water Use and Availability.* The proposal is designed to avoid excessive water consumption that may impair service to existing customers or exceed the public water system capacity.
- e) *Stormwater Management.* The proposal is designed to address and minimize potential adverse effects relating to off-site stormwater runoff owing to any relative increase in impervious surface area or decrease in vegetative land cover related to the proposed development.
- f) *Guidelines.* The proposal conforms to any guidelines adopted or approved by Council for the district in which the proposed work is located.
- g) *Plans.* The proposal conforms to a comprehensive plan, any applicable urban design or other plan officially adopted by Council, and any applicable community plan approved by the City Planning Commission.
- h) *Proposed Zoning Amendments.* The proposal is consistent with any proposed amendment to the zoning code then under consideration by the City Planning Commission or Council.
- i) *Adverse Effects.* Whether the proposal is likely to impose any adverse effect on the access to the property by fire, police, or other public services; traffic conditions; sonic impacts; air quality; or the development, usefulness or value of neighboring land and buildings.
- j) *Public Benefits.* Whether the proposed work is likely to provide any economic or other public benefits to the City.



BUILDING PERMIT APPLICATION

For Office Use Only	Digital ☐	Building Permit No: 26-5690
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Part A - Identification

Project Address WEST 8TH		Tenant/Floor/Suite/Unit/Lot	
Owner Information as Listed with HC Auditor		Contractor Information (REQUIRED)	
Name	Name		
Address	Address		
Contact Phone	Contact Phone		
Primary Contact on Project (REQUIRED)			
Name	Contact Phone	Contact Fax	
Address	Email Address		

Part B - Primary Use of the Main Building on Property (Select from the following Uses only) (See Use Guide for Details)

Current Use	Use Group	# Dwell Units	ASSEMBLY A-1 A-2 A-3 A-4 A-5	BUSINESS B	EDUCATION E	FACTORY F-1 F-2
			HIGH HAZARD H-1 H-2 H-3 H-4 H-5	INSTITUTIONAL I-1 I-2 I-3 I-4		MERCANTILE M
Proposed Use	Use Group	# Dwell Units	RESIDENTIAL 123 Fam R-1 R-2 R-3 R-4	STORAGE S-1 S-2	UTILITY U	VACANT LAND VAC

Part C - Description or Scope of Work & Costs:

Describe the proposed work in detail:					Fair Market Value of Labor & Materials for this Application (Do not include cost of electrical or any work covered by a separate application) \$ _____		
Building	New Building ☐	Addition ☐	Square Footage of the building or area of work?	Is it a Change of Use? Yes No			
	Alteration ☐	Repair ☐		Is it a Historic Bldg? Yes No			
	Deck/Porch ☐	Fence ☐ Tent ☐		If Temporary Structure Start Date End Date			
	Certificate of Occupancy/Use ☐						
Fire Protection	Alarm ☐	New ☐	Square Footage of work area?	Associated Building Permit#			
	Sprinkler/Suppression ☐			Modify Existing ☐			
Excavation Fill	Quantity of Excavation _____ C.Y.		Disposal Site _____		Quantity of Fill _____ C.Y.		Borrow Site _____
	Length	Avg Height	Max Height	Sign	Type of Illumination?	Ground Sign Yes No	Does copy pertain to business conducted on property? Yes No
Retaining Wall	Length	Width	# of Stories		Depth of Basement	Other	Please describe type of permit
	Wrecking	Length	Width	# of Stories	Depth of Basement		Other
Vacant Building Maintenance License ☐		Certificate of Inspection ☐	Total # of Sheets in one set of drawings (Including Specifications) _____			Is there a Notice of Violation or Adjudication Order? Yes No	
						Violation Number: _____	

Part D - Authorizations

The owner or agent of this building and the undersigned do hereby certify that the information and statements given on this application, drawings and inspections are true and correct to the best of their knowledge. The undersigned further certifies their authorization to grant consent and does hereby grant consent to the inspection of the described premises at any time when work on those premises is ongoing by employees of the City of Cincinnati.			
Applicant's Signature		Date _____	
FOR OFFICE USE ONLY	Inspector's Notes	Application Exp Date	Permit Exp Date

BUILDING USE CODES

A-1	Concert Hall or Theatre w/Stage	H-1	Explosives	1-2-3 Family	1-2-3 Family Dwelling	
A-2	Nightclubs or Restaurants	H-2,H-3,H-4	Flammable Gases, Toxic, Corrosives	R-1	Res Hotel/Motel/Boarding Homes	
A-3	Churches or Other Assemblies	H-5	Haz Prod Materials or Semi Cond Fab	R-2	Multi Fam Apartment Building	
A-4	Sports Arena	I-1	Inst Res Care/Halfway House	R-3	Multi Fam Townhouses <3 Units Attach	
A-5	Outdoor Facilities	I-2	Inst Hospital	R-4	Assisted Living Facility	
B	Business	I-3	Inst Prison	S-1	Storage Moderate Hazard	
E	Education	I-4	Adult Daycare	S-2	Storage Low Hazard	
F-1	Factory Moderate Hazard	M	Mercantile	VAC		
F-2	Factory Low Hazard	U	Utility			

FOR OFFICE USE ONLY

Type of Permit	Amount		
Barricade		Valuation for Fee Purposes _____ Zoning District _____ Use Group _____ Conflicts w/ City Projects _____ Base Flood Elevation _____ Floodway Map No./Parcel/Date _____ Regulatory FloodWay Yes No Floodway Fringe Yes No Flood Elevation Yes No Certificate Required _____	
Building			
Cert of Inspection			
Cert of Occupancy			
Excavation/Fill			
Fire Protection			
Investigation Fee			
Ohio St Surcharge			
Outdoor Adv Sign			
Permit Processing Fee			
Premium Service Fee			
Review By Appt			
Revisions			
Scanning Fee			
Sign			
Technology Surcharge			
VBML			
Wrecking			
Zoning Certificate			
Permit Processing Fee	\$	<u>Inspections Required</u> Soil Inspection ☐ Framing Inspection ☐ Fire Stopping Inspection ☐ Final Inspection ☐	

Reviewed

By:

Zoning

Date

Plan Exam

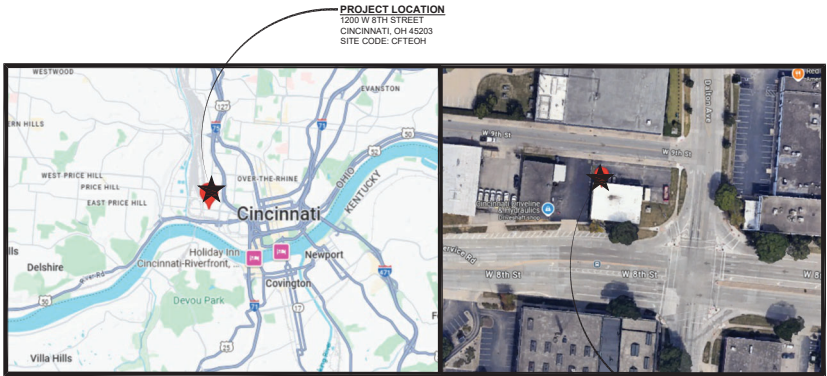
Date



ELECTRICAL SERVICE UPGRADE AND GENERATOR REPLACEMENT

AT
1200 W 8TH STREET
CINCINNATI, OH 45203
SITE CODE: CFTEOH

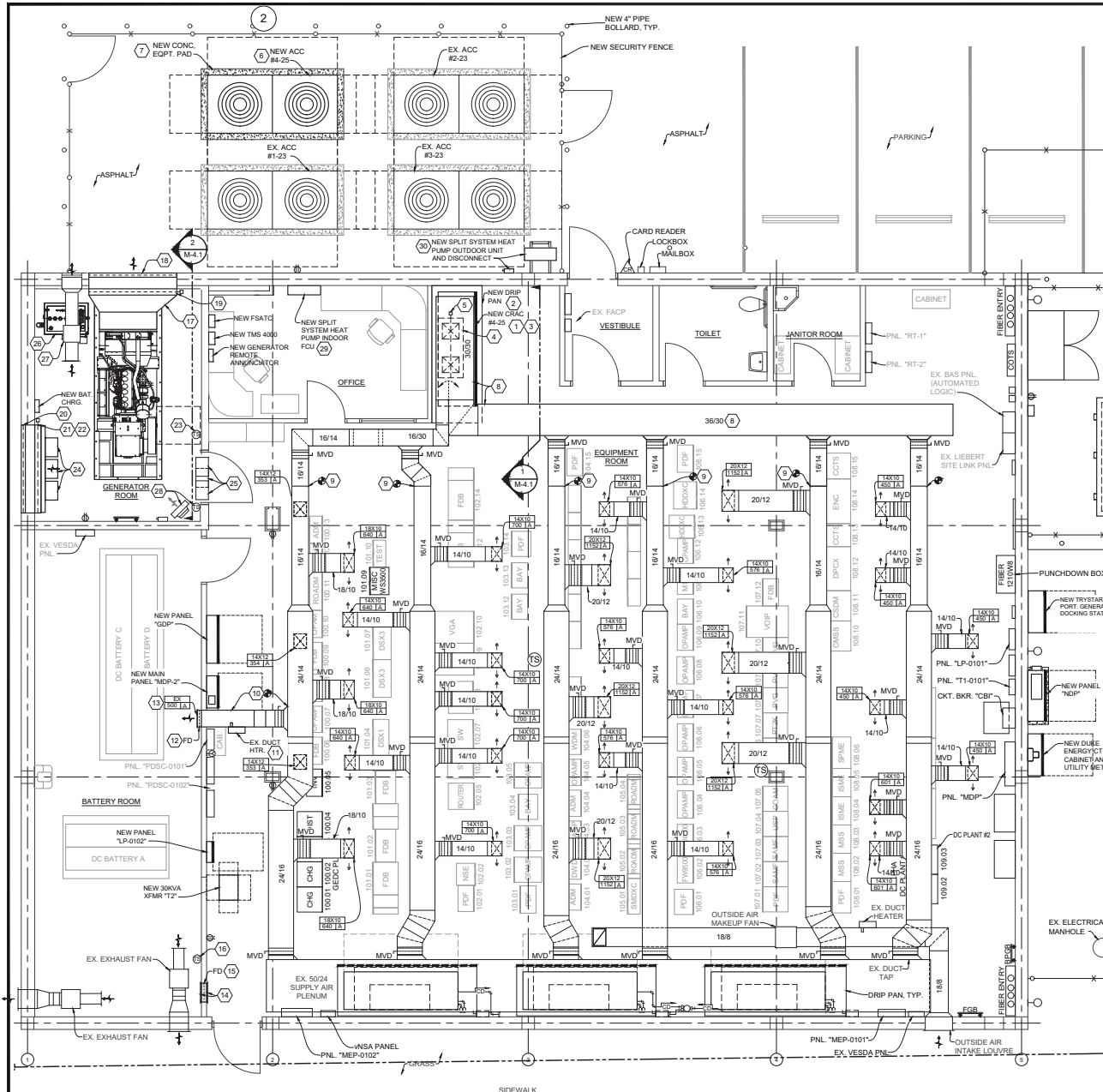
CHARLES MCDUFFIE
PRINCIPAL ENGINEER, NETWORK CONSTRUCTION
FACILITIES ENGINEERING AND CONSTRUCTION
400 INTERNATIONAL PARKWAY
RICHARDSON, TEXAS 75081



PROJECT LOCATION

PROJECT LOCATION
1200 W 8TH STREET
CINCINNATI, OH 45203
SITE CODE: CFTEOH

DRAWING INDEX & STATUS							
LEGEND:	☐ SHEET ISSUED FOR CONSTRUCTION ☐ SHEET ISSUED FOR INFO. & COORDINATION ☐ SHEET VOIDED	ISSUE / REVISIONS					
		1	2	3	4	5	6
SHEET NUMBER	SHEET TITLE	03-26-2026 100% CD ADDS NO. 1	04-29-2026 100% CD ADDS NO. 1				
REFERENCE							
CS-1.0	COVER SHEET						
WC-1.0	SCOPE OF WORK, SYMBOL, LEGENDS, DRAWING CRITERIA, AND WORKING CONDITIONS						
WC-1.1	SEQUENCE OF CONSTRUCTION AND MAJOR EQUIPMENT INVENTORY						
MECHANICAL, PLUMBING, AND ELECTRICAL							
MPE-1.0	OVERALL SITE PLAN						
MPE-1.1	ENGINE-GENERATOR SET OUTLINE - CATERPILLAR MODEL D400 GC						
GENERAL CONSTRUCTION							
GC-2.1	OVERALL FLOOR PLAN - GENERAL CONSTRUCTION, DEMOLITION						
GC-3.1	OVERALL FLOOR PLAN - GENERAL CONSTRUCTION, NEW WORK						
GC-4.1	GENERAL CONSTRUCTION - SECTION VIEWS						
GC-4.2	GENERAL CONSTRUCTION DETAILS						
GC-5.1	GENERAL CONSTRUCTION DETAILS						
GC-5.2	GENERAL CONSTRUCTION DETAILS						
MECHANICAL (HVAC)							
M-2.1	OVERALL FLOOR PLAN - AIR DISTRIBUTION, DEMOLITION						
M-2.2	OVERALL FLOOR PLAN - MECHANICAL PIPING, DEMOLITION						
M-3.1	OVERALL FLOOR PLAN - AIR DISTRIBUTION, NEW						
M-3.2	OVERALL FLOOR PLAN - MECHANICAL PIPING, NEW						
M-4.1	SECTION VIEWS						
M-5.1	MECHANICAL SCHEDULES AND DETAILS						
M-5.2	MECHANICAL DETAILS						
M-5.3	MECHANICAL DETAILS						
FUEL SYSTEM							
FS-2.1	OVERALL FLOOR PLAN - FUEL SYSTEM, DEMOLITION						
FS-2.2	ENLARGED PARTIAL FLOOR PLAN - FUEL SYSTEM, DEMOLITION						
FS-3.1	OVERALL FLOOR PLAN - FUEL SYSTEM, NEW WORK						
FS-3.2	ENLARGED PARTIAL FLOOR PLAN - FUEL SYSTEM, NEW WORK						
FS-4.1	GENERATOR FUEL SYSTEM PIPING SCHEMATIC						
FS-5.1	FUEL SYSTEM TANK DETAILS						
FS-5.2	DAY TANK DETAILS						
FS-5.3	PUMP SET DETAILS						
FS-5.4	FUEL SYSTEM DETAILS						
FS-5.5	FUEL SYSTEM DETAILS						
FS-5.6	FUEL SYSTEM DETAILS						
FIRE ALARM							
FA-2.1	OVERALL FLOOR PLAN - FIRE ALARM, DEMOLITION						
FA-3.1	OVERALL FLOOR PLAN - FIRE ALARM, NEW WORK						
ELECTRICAL							
E-2.1	OVERALL FLOOR PLAN - ELECTRICAL, DEMOLITION						
E-3.1	OVERALL FLOOR PLAN - ELECTRICAL, NEW WORK						
E-3.2	ENLARGED FLOOR PLANS - GENERATOR ROOM AND EAST YARD - ELECTRICAL, NEW WORK						
E-4.1	ELECTRICAL ONE-LINE DIAGRAM - EXISTING CONDITIONS						
E-4.2	ELECTRICAL ONE-LINE DIAGRAM - SEQUENCE NO 1 (MOP-1)						
E-4.3	ELECTRICAL ONE-LINE DIAGRAM - SEQUENCE NO 2 (MOP-2)						
E-4.4	ELECTRICAL ONE-LINE DIAGRAM - SEQUENCE NO 3 (MOP-3)						
E-4.5	ELECTRICAL ONE-LINE DIAGRAM - FINAL CONFIGURATION						
E-5.1	ELECTRICAL PANEL SCHEDULES						
E-5.2	ELECTRICAL PANEL SCHEDULES						
E-5.3	ELECTRICAL PANEL SCHEDULES						
E-6.1	ELECTRICAL DETAILS						
E-6.2	ELECTRICAL DETAILS						
E-6.3	ELECTRICAL DETAILS - SERVICE ENTRANCE EQUIPMENT						
E-6.4	ELECTRICAL DETAILS						
E-6.5	ELECTRICAL DETAILS - WIRING DIAGRAMS						
E-6.6	WIRING DIAGRAM - PLC CONTROLLER, DAY TANK W/ RETURN PUMP						
E-6.7	WIRING DIAGRAM - PLC CONTROLLER, DUPLEX SUPPLY PUMP SET						



OVERALL FLOOR PLAN - AIR DISTRIBUTION, NEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEETS WC-1.0 AND WC-1.1 FOR WORKING CONDITIONS AND SEQUENCE OF CONSTRUCTION.
2. THE EXISTING FACILITY SHALL REMAIN OCCUPIED DURING THIS PROJECT. THE CONTRACTOR SHALL ENSURE COOLING AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ADDITIONALLY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE WORK AREA CLEAR OF TOOLS, EXCESS MATERIALS, TRASH AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROTECTIVE BARRIERS, AS REQUIRED, DURING NORMAL WORK HOURS TO PROTECT BUILDING OCCUPANTS. DO NOT BLOCK EMERGENCY EGRESS PATHS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CUTTING, PATCHING, AND REPAIRS OF ANY STRUCTURE, FLOOR CEILING, FURNITURE, OR ANY OTHER SURFACES THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. PATCH AND REPAIR ANY DAMAGED SURFACE TO MATCH SURROUNDING CONSTRUCTION.
4. EXTREME CAUTION SHALL BE TAKEN TO PROTECT ALL TELECOM EQUIPMENT, CABLES, TRAYS, ELECTRICAL CONDUIT, CABLE RACKS, ETC. FROM PHYSICAL DAMAGE WHILE INSTALLING NEW WORK. CONTRACTOR SHALL PROVIDE DEBRIS PROOF COVER OVER ALL TELEPHONE SWITCH AND/OR COMPUTER EQUIPMENT DURING INSTALLATION OF ALL OVERHEAD WORK.
5. CONTRACTOR SHALL COORDINATE WITH VERTIV / LIEBERT MANUFACTURER'S REPRESENTATIVE TO CONDUCT START-UP SERVICES FOR THE NEW COMPUTER ROOM AIR CONDITIONER AND ASSOCIATED AIR COOLED CONDENSING UNITS.
6. UPON COMPLETION OF WORK, CONTRACTOR SHALL RE-BALANCE AIR DISTRIBUTION SYSTEM AS INDICATED TO DESIRED AIR FLOW AND SPECIFICATIONS.

NOTES INDICATED BY NUMBER IN :

1. CONTRACTOR SHALL PROVIDE NEW 22-TON UP-FLOW COMPUTER ROOM AIR CONDITIONING (CRAC) UNIT #4-25 AND CONNECT TO NEW SUPPLY AIR DUCT. NEW CRAC UNIT TO BE INSTALLED INSIDE FABRICATED STAINLESS STEEL DRIP PAN. REFER TO NOTE 2 BELOW. PROVIDE NEW LEAK DETECTION SYSTEM WITH LEAK DETECTION TAPE SERPENTINED BELOW UNIT. REFER TO NOTE 3 BELOW. REFER TO CRAC UNIT SCHEDULE ON SHEET M-5.1.
2. CONTRACTOR SHALL PROVIDE WATER TIGHT DRIP PAN BELOW NEW CRAC UNIT. DRIP PAN SHALL BE CONSTRUCTED OF TYPE 304 STAINLESS STEEL WITH 1/4" (10.0) MINIMUM SLOPE. THE DRIP PAN SHALL BE MINIMUM 2" DEEP AND EXTEND MINIMUM 6" BEYOND THE PERIMETER OF THE CRAC UNIT OR AS INDICATED. DRIP PAN SHALL HAVE ROLLED OR HEMMED EDGES (SHARP EDGES NOT ACCEPTABLE).
3. CONTRACTOR SHALL PROVIDE TAPE TYPE LEAK DETECTION SYSTEM WITH SENSING TAPE. INSTALL SENSING TAPE SERPENTINED BELOW UNIT. REFER TO DETAIL 1, SHEET M-5.1 FOR ADDITIONAL INFORMATION.
4. EXTEND FULL SIZED DISCHARGE AIR DUCT UP FROM CRAC UNIT AND CONNECT TO NEW DUCTWORK AND DAMPER. REFER TO SECTION DRAWING ON SHEET M-4.1.
5. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED CRAC UNIT SUCH THAT ANY TIME CRAC UNIT IS RUNNING, DAMPER SHALL BE OPEN AND WHEN CRAC UNIT IS NOT RUNNING, DAMPER SHALL BE CLOSED. REFER TO DETAIL 4, SHEET M-5.3 FOR TYPICAL DISCHARGE DAMPER INTERLOCK WIRING DIAGRAM.
6. PROVIDE NEW 2-FAN AIR COOLED CONDENSER (ACC) ON CONCRETE EQUIPMENT PAD. REFER TO AIR COOLED CONDENSER INSTALLATION DETAIL 8, SHEET M-5.1 FOR MOUNTING. REFER TO TYPICAL REFRIGERANT PIPING SCHEMATIC, DETAIL M-5.1 FOR PIPING CONFIGURATION AND VALVE REQUIREMENTS. REFER TO AIR COOLED CONDENSER SCHEDULE ON SHEET M-5.1 FOR ADDITIONAL INFORMATION AND ELECTRICAL CHARACTERISTICS.
7. CONTRACTOR SHALL PROVIDE NEW CONCRETE EQUIPMENT PAD. PAD MINIMUM HEIGHT FROM GRADE SHALL BE 6" PAD SHALL HAVE 1/8" SLOPE. PAD SIZE SHALL BE AS INDICATED. CONFIRM WITH EQUIPMENT PRIOR TO POURING CONCRETE. REFER TO DETAIL 1, SHEET M-5.3.
8. INSTALL NEW SUPPLY AIR DUCT AS HIGH AS POSSIBLE.
9. CONNECT NEW SUPPLY AIR DUCT TO EXISTING AND SEAL AIR TIGHT.
10. CONTRACTOR SHALL TAP EXISTING DUCT AND EXTEND NEW OR RE-LOCATED SUPPLY AIR DUCT TO BATTERY ROOM AS INDICATED. PROVIDE NEW DUCT TO MATCH SIZE OF EXISTING BRANCH DUCT. BALANCE AIR FLOW TO 500CFM.
11. RELOCATE EXISTING DUCT/HEATER AND ASSOCIATED CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR TO RELOCATE/EXTEND EXISTING ELECTRICAL CIRCUIT AS REQUIRED. REFER TO ELECTRICAL DRAWINGS.
12. RELOCATE OR PROVIDE NEW FIRE DAMPER AND SEAL DUCT THRU WALL PENETRATION AIR TIGHT WITH APPROVED FIRE STRIPPING MATERIALS TO MATCH EXISTING FIRE RATING OF WALL ASSEMBLY.
13. RELOCATE OR PROVIDE NEW SUPPLY AIR GRILLE. IF GRILLE IS RELOCATED, CLEAN AND REPAINT AS REQUIRED FOR NEW CONDITION.
14. PROVIDE NEW THRU WALL TRANSFER AIR OPENING. PROVIDE NEW DUCT SLEEVE SIZED TO MATCH EXISTING. RELOCATE OR PROVIDE NEW TRANSFER AIR GRILLES AT BOTH SIDES OF WALL PENETRATION.
15. RELOCATE OR PROVIDE NEW FIRE DAMPER INSIDE TRANSFER AIR DUCT.
16. RELOCATE EXISTING TEMPERATURE SENSOR AND ASSOCIATED CONTROLS TO DUCT HEATER. PROVIDE NEW CONDUIT AND CONTROLS CONDUITORS AS REQUIRED. REFER TO NOTE 11 ABOVE.
17. PROVIDE FULL SIZE CONNECTION FROM GENERATOR RADIATOR TO NEW MOTORIZED DAMPER AND EXHAUST LOUVER.
18. PROVIDE NEW 6'-0" X 7'-0" EXHAUST AIR LOUVER. LOUVER TO PROVIDE MINIMUM OF 26-SQ. FT. OF FREE AREA. REFER TO SHEET M-4.1 FOR DETAILS. LOUVER TO BE GREENHECK EHH-801 OR APPROVED EQUAL SPECIFICALLY DESIGNED TO LIMIT WATER PENETRATION.
19. PROVIDE NEW 6'-0" X 7'-0" MOTORIZED DAMPER AT EXHAUST AIR LOUVER. INTERLOCK DAMPER OPERATOR WITH GENERATOR RUN SIGNAL SUCH THAT ANY TIME GENERATOR RUNS, DAMPER SHALL BE OPEN AND ANY TIME GENERATOR IS NOT RUNNING, DAMPER SHALL BE DRIVEN CLOSED. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING OF DAMPER OPERATOR. REFER TO INTERLOCK WIRING DIAGRAM DETAIL 7, SHEET M-5.3.
20. PROVIDE NEW 7'-6" X 7'-0" INTAKE AIR LOUVER. LOUVER TO PROVIDE MINIMUM OF 33-SQ. FT. OF FREE AREA. REFER TO SHEET M-4.1 FOR DETAILS. LOUVER TO BE GREENHECK EHH-801 OR APPROVED EQUAL SPECIFICALLY DESIGNED TO LIMIT WATER PENETRATION.
21. PROVIDE NEW 1'-0" X 7'-0" MOTORIZED DAMPER "1" (TOP SECTION). INTERLOCK DAMPER OPERATOR WITH GENERATOR AND EXHAUST FAN RUN SIGNALS SUCH THAT ANY TIME GENERATOR OR EXHAUST FAN RUNS, DAMPER SHALL BE DRIVEN OPEN AND ANY TIME BOTH GENERATOR AND EXHAUST FAN ARE NOT RUNNING, DAMPER SHALL BE DRIVEN CLOSED. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING OF DAMPER OPERATOR. REFER TO GENERATOR ROOM VENTILATION DAMPER INTERLOCK WIRING DIAGRAM DETAIL 7, SHEET M-5.3.
22. PROVIDE NEW 6'-0" X 7'-0" MOTORIZED DAMPER "B" (BOTTOM SECTION). INTERLOCK DAMPER OPERATOR WITH GENERATOR RUN SIGNAL SUCH THAT ANYTIME GENERATOR RUNS, DAMPER SHALL BE DRIVEN OPEN AND ANY TIME GENERATOR IS NOT RUNNING, DAMPER SHALL BE DRIVEN CLOSED. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING OF DAMPER OPERATOR. REFER TO GENERATOR ROOM VENTILATION DAMPER INTERLOCK WIRING DIAGRAM DETAIL 7, SHEET M-5.3.
23. EXISTING TEMPERATURE SENSOR FOR GENERATOR ROOM VENTILATION CONTROL TO REMAIN. PROTECT DURING CONSTRUCTION. REFER TO DETAIL 9, SHEET M-5.1.
24. PROVIDE TEMPORARY SUPPORT FOR CONNECTION OF SPOT COOLER DISCHARGE AIR RELIEF CONNECTIONS TO OUTSIDE AIR DAMPER.
25. SPOT COOLER DISCHARGE AIR DUCT SLEEVES THRU WALL ARE TO REMAIN. PROTECT DURING CONSTRUCTION.
26. NEW 150-GALLON DAY TANK. REFER TO FUEL SYSTEM DRAWINGS FOR ADDITIONAL INFORMATION.
27. EXISTING GENERATOR ROOM EXHAUST FAN. PROTECT DURING CONSTRUCTION.
28. EXISTING GENERATOR ROOM ELECTRIC UNIT HEATER TO REMAIN. PROTECT DURING CONSTRUCTION.
29. NEW SPLIT SYSTEM HEAT PUMP INDOOR UNIT MOUNTED ON WALL BELOW CEILING. REFER TO SCHEDULE ON SHEET M-5.1. REFER TO SHEET M-5.2 FOR ADDITIONAL INFORMATION.
30. NEW SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT MOUNTED ON EXTERIOR WALL. REFER TO SCHEDULE ON SHEET M-5.1. REFER TO SHEET M-5.2 FOR ADDITIONAL INFORMATION.



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ELECTRICAL SERVICE UPGRADE
AND GENERATOR REPLACEMENT
AT
1200 W 8TH STREET
CINCINNATI, OH 45203

verizon

FAC. CODE: CFTECH

DRAWN BY: DG, RP, PS

DESIGNED BY: DG, RP

PROJECT MANAGER: KCM

DATE: 03-26-2025

ISSUE/REVISION

1 3-26-25 80% CD REVIEW

2 4-25-25 100% CD

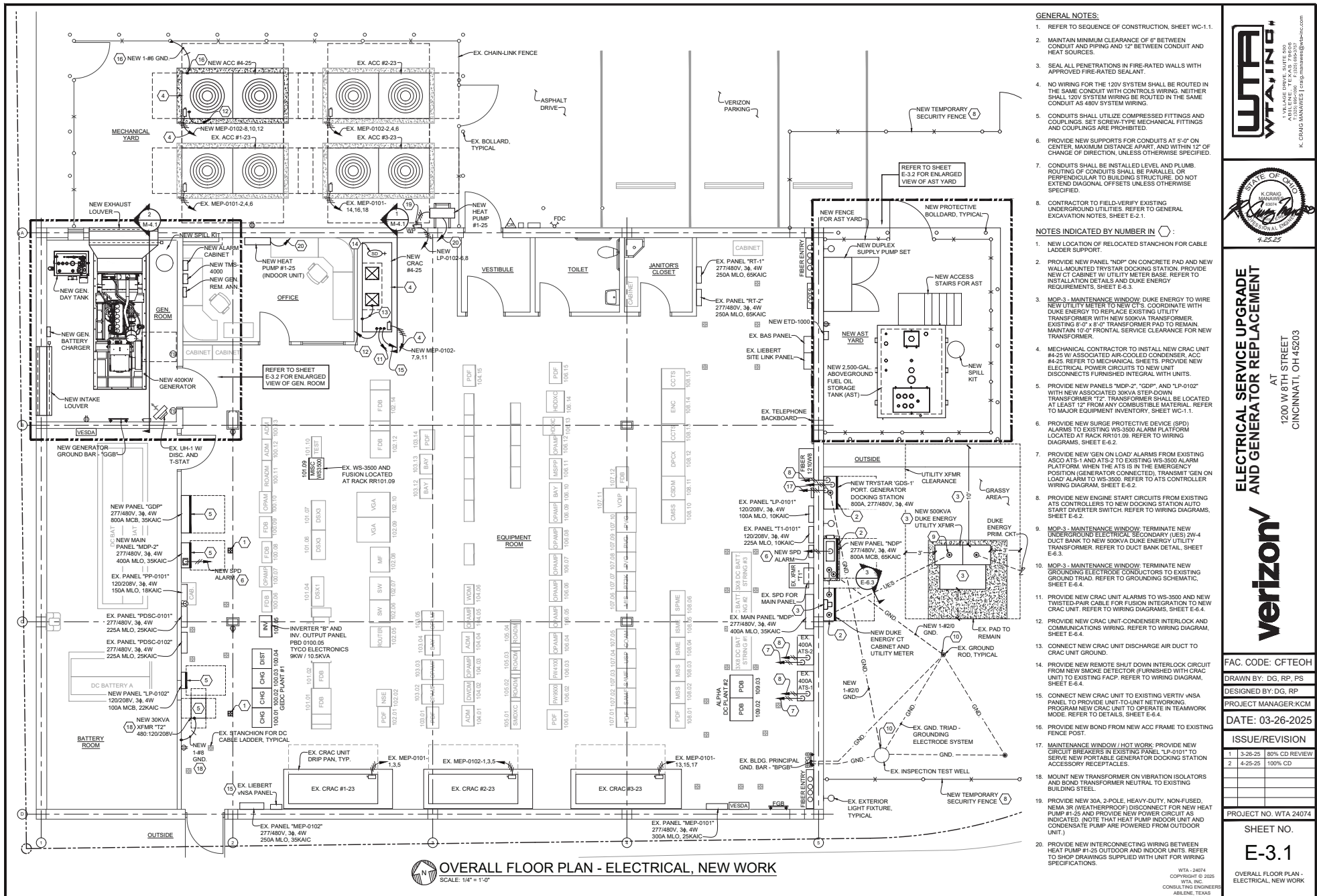
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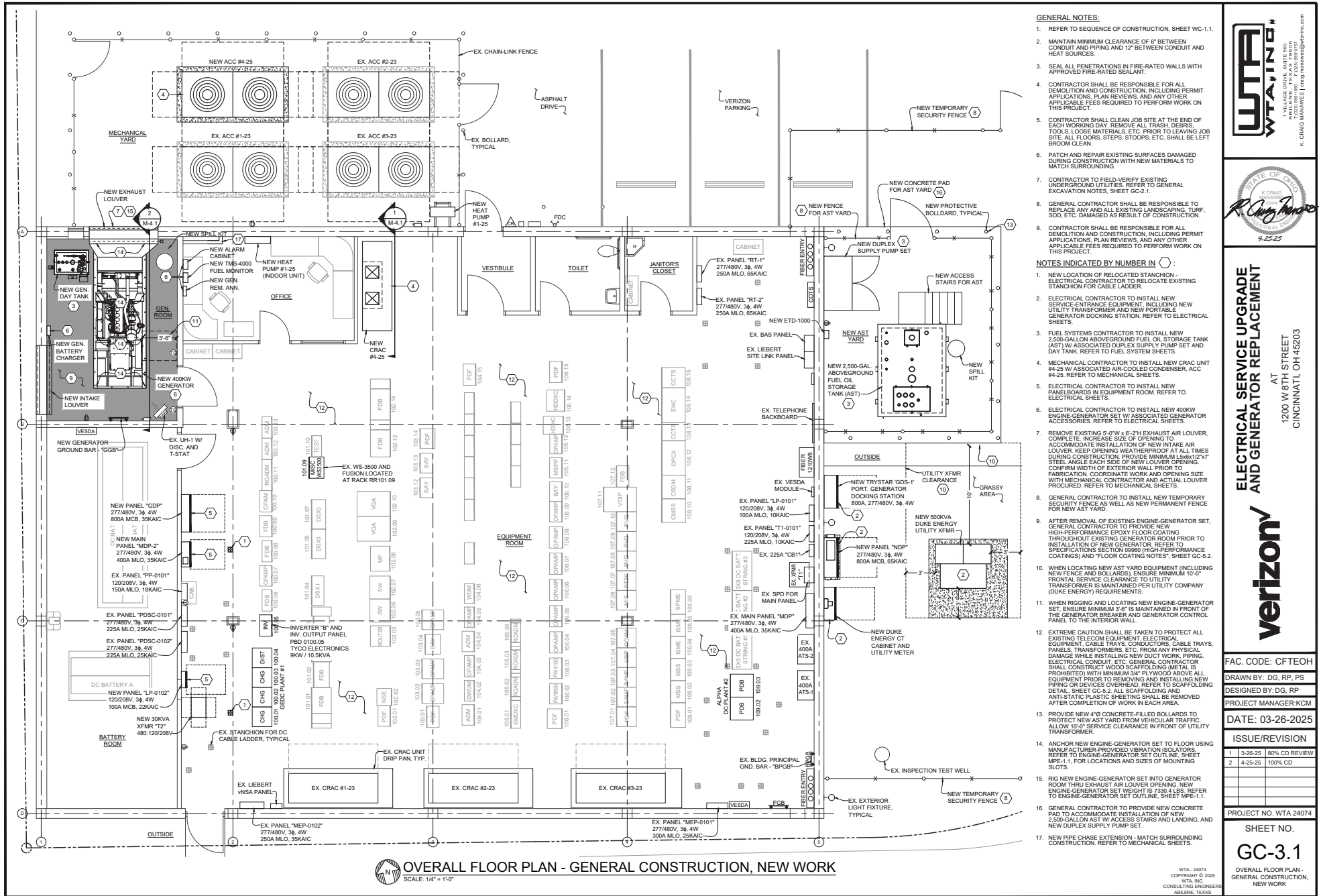
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M-3.1

OVERALL FLOOR PLAN -
AIR DISTRIBUTION, NEW

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ISSUE/REVISION

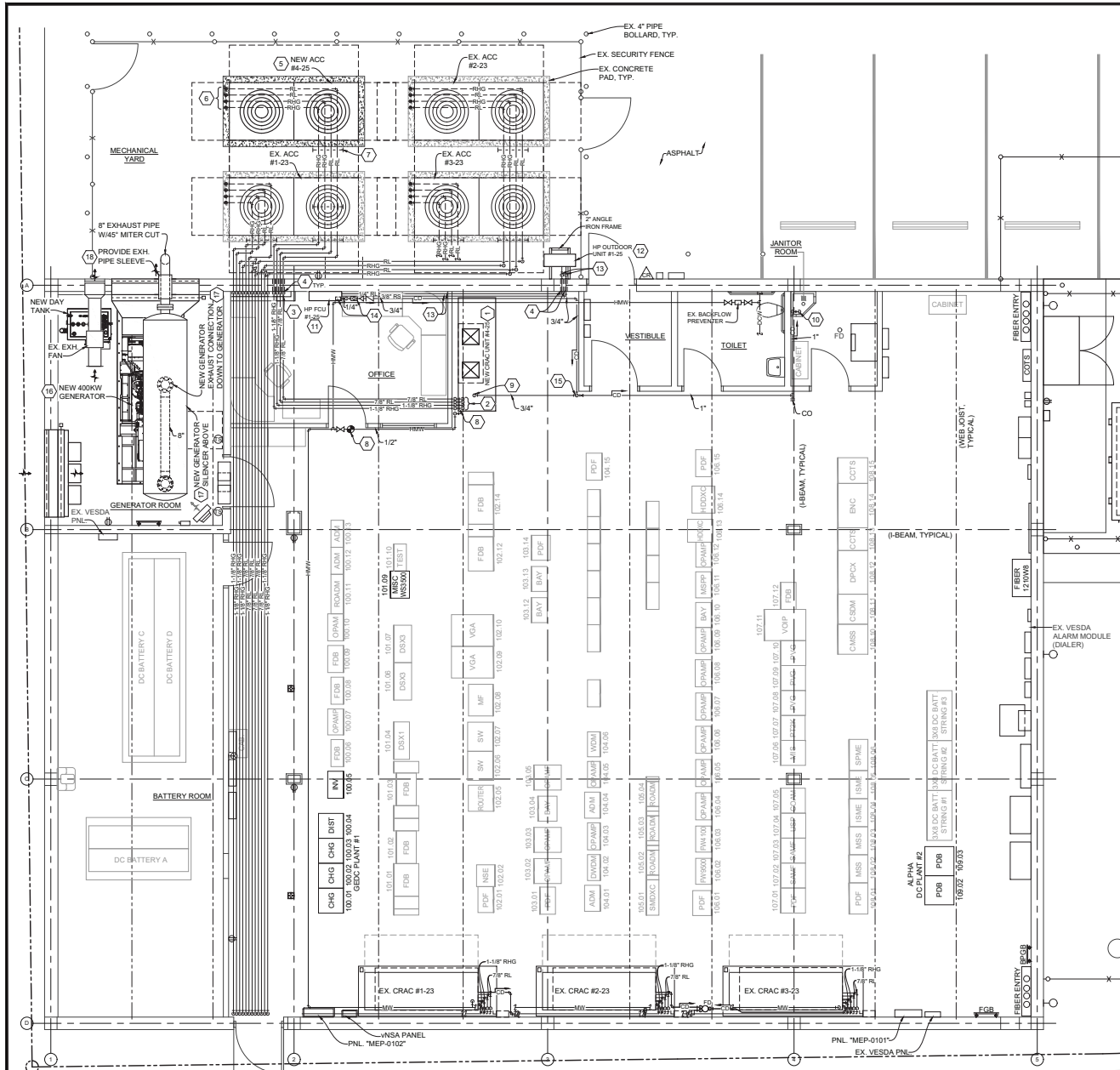
1	3-26-25	80% CD REVIEW
2	4-25-25	100% CD

PROJECT NO. WTA 24074

SHEET NO.

GC-3.1
OVERALL FLOOR PLAN -
GENERAL CONSTRUCTION,
NEW WORK

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OVERALL FLOOR PLAN - MECHANICAL PIPING, NEW
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
1. REFER TO SHEETS WC-1.0 AND WC-1.1 FOR WORKING CONDITIONS AND SEQUENCE OF CONSTRUCTION.
 2. THE EXISTING FACILITY SHALL REMAIN OCCUPIED DURING THIS PROJECT. THE CONTRACTOR SHALL ENSURE COOLING AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ADDITIONALLY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE WORK AREA CLEAR OF TOOLS, EXCESS MATERIALS, TRASH AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROTECTIVE BARRIERS, AS REQUIRED, DURING NORMAL WORK HOURS TO PROTECT BUILDING OCCUPANTS. DO NOT BLOCK EMERGENCY EGRESS PATHS.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CUTTING, PATCHING, AND REPAIRING OF ANY STRUCTURE, FLOOR CEILING, FURR-OUTS, OR ANY OTHER SURFACES THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. PATCH AND REPAIR ANY DAMAGED SURFACE TO MATCH SURROUNDING CONSTRUCTION.
 4. ALL NEW REFRIGERANT PIPING SHALL BE TYPE "K" CLEANED AND CAPPED COPPER TUBE (FOR REFRIGERATION) WITH SILVER BRAZED JOINTS AS SPECIFIED IN CONSTRUCTION SPECIFICATION MANUAL. REFER TO SECTION 15103 - "REFRIGERANT PIPING".
 5. ALL NEW CONDENSATE DRAIN PIPING SHALL BE TYPE "L" RIGID COPPER TUBE WITH SOLDERED JOINTS AS SPECIFIED IN CONSTRUCTION SPECIFICATION MANUAL. REFER TO SECTION 15151 - "CONDENSATE DRAIN PIPING".
 6. ALL NEW HUMIDIFIER WATER MAKE-UP PIPING SHALL BE TYPE "L" RIGID COPPER TUBE WITH SILVER BRAZED JOINTS AS SPECIFIED IN CONSTRUCTION SPECIFICATION MANUAL. REFER TO SECTION 15143 - "NON-POTABLE INDUSTRIAL COLD WATER PIPE".
 7. SILVER BRAZING AND SOLDERING OF COPPER PIPE WILL ONLY BE ALLOWED WITH SMOKE REMOVAL SYSTEM IN USE DURING THE BRAZING OR SOLDERING PROCEDURE.
 8. EXTREME CAUTION SHALL BE TAKEN TO PROTECT ALL TELECOM EQUIPMENT, CABLES, TRAYS, ELECTRICAL CONDUCTORS, CABLE RACKS, ETC. FROM PHYSICAL DAMAGE WHILE INSTALLING NEW WORK. CONTRACTOR SHALL PROVIDE DEBRIS PROOF COVER OVER ALL TELEPHONE SWITCH AND/OR COMPUTER EQUIPMENT DURING INSTALLATION OF ALL OVERHEAD WORK.
 9. CONTRACTOR SHALL COORDINATE WITH VERTV / LIEBERT MANUFACTURER'S REPRESENTATIVE TO CONDUCT START-UP SERVICES FOR THE NEW COMPUTER ROOM AIR CONDITIONER AND ASSOCIATED AIR COOLED CONDENSING UNITS.
- NOTES INDICATED BY NUMBER IN :**
1. CONTRACTOR SHALL PROVIDE NEW 22-TON UP-FLOW CRAC UNIT #4-25, REFER TO SHEET M-3.1 FOR ADDITIONAL INFORMATION.
 2. CONNECT (2) NEW 1-1/8" O.D. REFRIGERANT HOT GAS AND (2) NEW 7/8" O.D. REFRIGERANT LIQUID LINES TO CRAC UNIT. ROUTE NEW REFRIGERANT PIPING OVER HEAD AND EXTEND TO EXTERIOR WALL AS INDICATED. PROVIDE INSULATION AS SPECIFIED FOR INTERIOR PIPING. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 3. REMOVE PORTION OF EXISTING PIPE CHASE AS REQUIRED (REFER TO SHEET M-2.2) AND ROUTE NEW REFRIGERANT PIPING DOWN INSIDE PIPE CHASE. TURN NEW PIPING OUT EXTERIOR WALL AND EXTEND TO NEW ACC #4-25 AS INDICATED. PATCH AND REPAIR PIPE CHASE WITH MATERIALS AND METHODS TO MATCH SURROUNDING CONSTRUCTION. REFER TO GC DRAWINGS FOR ADDITIONAL INFORMATION.
 4. CORE DRILL EXISTING EXTERIOR WALL AS REQUIRED FOR INSTALLATION OF NEW REFRIGERANT PIPING. PROVIDE GALVANIZED STEEL PIPE SLEEVE AND SEAL WEATHER TIGHT. REFER TO DETAIL 6, SHEET M-3.1 FOR THRU WALL PIPE PENETRATION.
 5. CONTRACTOR SHALL PROVIDE NEW 2-FAN ACC #4-25, REFER TO SHEET M-3.1 FOR ADDITIONAL INFORMATION.
 6. CONNECT (2) 1-1/8" O.D. REFRIGERANT HOT GAS (RHG) AND (2) 7/8" O.D. REFRIGERANT LIQUID (RL) LINES TO ACC REFRIGERANT PIPING CONNECTIONS. PROVIDE INSULATION AS SPECIFIED FOR EXTERIOR PIPING AND COVER WITH ALUMINUM JACKET TO MATCH EXISTING. REFER TO DETAIL 3, SHEET M-3.1 FOR REFRIGERANT PIPING SCHEMATIC. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 7. PROVIDE PIPE SUPPORT AS REQUIRED. REFER TO DETAIL 8, SHEET M-3.1.
 8. CONNECT NEW 1/2" HUMIDIFIER WATER MAKE-UP PIPING TO EXISTING AND EXTEND AND CONNECT TO NEW CRAC UNIT #4-25 HUMIDIFIER WATER CONNECTION. PROVIDE INSULATION AS SPECIFIED FOR INTERIOR PIPING AND COVER WITH PVC JACKET. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 9. CONNECT NEW 3/4" PUMPED CONDENSATE DRAIN DISCHARGE PIPING TO CRAC UNIT PUMPED CONDENSATE DISCHARGE CONNECTION AND EXTEND TO JANITOR SINK AS INDICATED. PROVIDE INSULATION AS SPECIFIED FOR INTERIOR PIPING AND COVER WITH PVC JACKET. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 10. TURN NEW 1" PUMPED CONDENSATE DRAIN DISCHARGE PIPING DOWN WALL AND EXTEND TO JANITOR SINK AS INDICATED. DISCHARGE CONDENSATE DRAIN LINE INTO JANITOR SINK WITH 90° ELBOW. PROVIDE MINIMUM 1" AIR GAP AT SINK.
 11. WALL MOUNTED MINI-SPLIT SYSTEM INDOOR HEAT PUMP UNIT #1-25 SHALL BE MOUNTED AS HIGH AS POSSIBLE BELOW CEILING.
 12. MINI-SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT TO BE MOUNTED TO EXTERIOR WALL ON NEW HOT DIPPED GALVANIZED STEEL ANGLE-IRON FRAME AT MINIMUM 6'-0" ABOVE EXTERIOR FINISHED GRADE.
 13. ROUTE NEW 3/8" O.D. REFRIGERANT HOT GAS (RHG) AND 1/4" O.D. REFRIGERANT LIQUID (RL) LINES ALONG WALL ABOVE CEILING AND EXTEND TO NEW MINI-SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT #1-25 AS INDICATED. SUPPORT PIPING ALONG WALL WITH GALVANIZED (UNSTRUT) STEEL CHANNELS, 5'-0" ON CENTER MAXIMUM DISTANCE APART. REFER TO DETAIL 4, SHEET M-3.1. PROVIDE INSULATION AS SPECIFIED FOR EXTERIOR PIPING. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 14. SPLIT SYSTEM ACCESSORY CONDENSATE PUMP AND CONDENSATE DETECTION DEVICE PROVIDED WITH SPLIT SYSTEM HEAT PUMP #1-25. CONDENSATE DETECTION DEVICE TO BE MOUNTED INSIDE WALL MOUNTED SPLIT SYSTEM INDOOR UNIT. MOUNT CONDENSATE PUMP ABOVE CEILING. EXTEND 1/4" PUMP SUCTION LINE AND LOW VOLTAGE CONTROL WIRING CABLE FROM INDOOR UNIT TO CONDENSATE PUMP MOUNTED ABOVE CEILING. EXTEND CONDENSATE PUMP DISCHARGE PIPING AND CONNECT TO NEW 3/4" COPPER CONDENSATE DRAIN LINE. PROVIDE REDUCER AND CHECK VALVE IN HORIZONTAL PIPING DOWNSTREAM OF CONDENSATE PUMP. COPPER CONDENSATE DRAIN LINE TO BE INSULATED AS SPECIFIED FOR INDOOR PIPING. EXPOSED INSULATION TO BE COVERED WITH PVC JACKET. LABEL PIPING WITH CONTENTS AND DIRECTION OF FLOW.
 15. TURN 3/4" COPPER CONDENSATE DISCHARGE PIPING DOWN AND CONNECT TO NEW 1" PUMPED CONDENSATE DRAIN PIPING AS INDICATED.
 16. NEW 400 KW / 500 KVA, 277/480V, 3Ø, 4W CATERPILLAR D400 GC STAND-BY GENERATOR, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 17. INSTALL EXHAUST SILENCER PROVIDED WITH GENERATOR. SUPPORT GENERATOR FROM STRUCTURE ABOVE. PROVIDE FLEXIBLE CONNECTION AT GENERATOR EXHAUST CONNECTION AND EXTEND UP FOR EXHAUST PIPE CONNECTION AT SILENCER. PROVIDE 8" SCHEDULE 40 BLACK STEEL PIPING CONNECTED TO TOP OF FLEXIBLE CONNECTION AND EXHAUST TO SILENCER EXHAUST INPUT CONNECTION. EXTEND 8" SCHEDULE 40 BLACK STEEL EXHAUST PIPING FROM SILENCER OUTPUT CONNECTION TO EXHAUST PIPE PENETRATION THRU WALL AS INDICATED. MITER CUT END OF EXHAUST PIPE AT EXTERIOR OF BUILDING. INSULATE SILENCER AND EXHAUST PIPING AS INDICATED IN SPECIFICATION MANUAL. REFER TO SECTION 15083 "PIPE INSULATION". SUPPORT SILENCER AND EXHAUST PIPING FROM STRUCTURE ABOVE. REFER TO SECTION DRAWING ON SHEET M-4.1.
 18. PROVIDE EXHAUST PIPE SLEEVE THRU WALL, REFER TO DETAIL 2, SHEET M-3.1.



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FAC. CODE: CFTF0H

DRAWN BY: DG, RP, PS

DESIGNED BY: DG, RP

PROJECT MANAGER: KCM

DATE: 03-26-2025

ISSUE/REVISION

1 3-26-25 80% CD REVIEW

2 4-25-25 100% CD

PROJECT NO. WTA 24074

SHEET NO.

M-3.2

OVERALL FLOOR PLAN - MECHANICAL PIPING, NEW

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