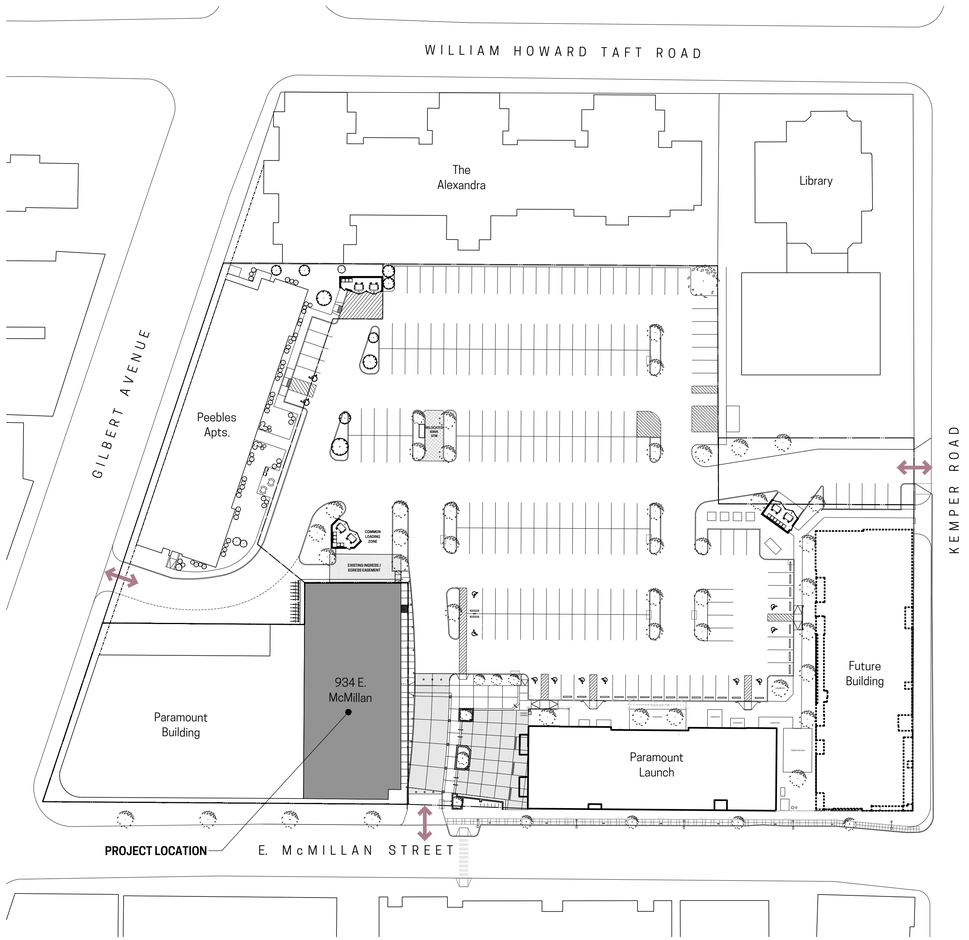
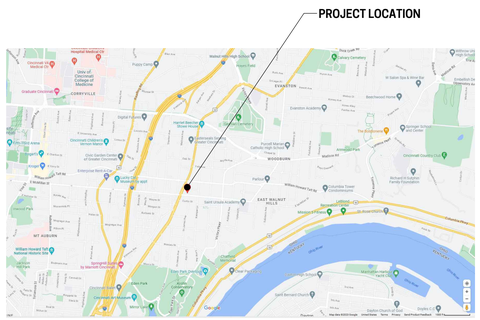


D1 GENERAL SITE PLAN

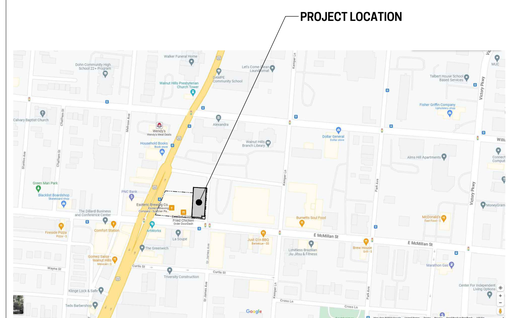
1" = 50'-0"

FOR REFERENCE ONLY - SEE SHEET G100 FOR ADDITIONAL INFORMATION



A1 VICINITY MAP

WALNUT HILLS NEIGHBORHOOD



A4 LOCATION MAP

934 E. McMILLAN STREET, CINCINNATI, OH 45206

AFF	ABOVE FINISHED FLOOR	F/	FACE OF	MR	MOISTURE RESISTANT	STC	SOUND TRANSMISSION CLASS
ALUM	ALUMINUM	FDTN	FOUNDATION	MTL	METAL	STL	STEEL
AN	ANODIC or ANODIZED	FIN	FINISH	NA or n/a	NOT APPLICABLE	SURF	SURFACE
B/	BOTTOM or BELOW	FLR	FLOOR/FLOORING	NIC	NOT IN CONTRACT	T&G	TONGUE AND GROOVE
BD	BOARD	FRT	FIRE RETARDANT TREATED	NSF	NET SQUARE FEET	T/	TOP or TOP OF
BLDG	BUILDING	FT	FOOT/FEET	OC	ON CENTER	TEMP	TEMPORARY
BLKG	BLOCKING	FV	FIELD VERIFY	OCC	OCCUPANCY / OCCUPANT	TLT	TOILET
BRG	BEARING	GALV	GLAVANIZED	OH	OPPOSITE HAND	TYP	TYPICAL
BSMT	BASEMENT	GLZ	GLAZING	OPP	OPPOSITE	U/	UNDER
CJ	CONTROL JOINT	GSF	GROSS SQUARE FEET	OSB	ORIENTED STRAND BOARD	UNO	UNLESS NOTED OTHERWISE
CL	CENTER LINE	GWB	GYPSUM WALLBOARD	PART	PARTITION	VB	VAPOR BARRIER
CLG	CEILING	HM	HOLLOW METAL	PLAM	PLASTIC LAMINATE	VWC	VINYL WALLCOVERING
CMU	CONCRETE MASONRY UNIT	IHM	INSULATED HOLLOW METAL	PT	PRESSURE TREATED	WD	WOOD
CONC	CONCRETE	INS	INSULATED	PVB	POLY VAPOR BARRIER	W/	WITH
CONT	CONTINUOUS	INSUL	INSULATION	QTZ	QUARTZ	WH	WATER HEATER
DN	DOWN	LAV	LAVATORY	REQD	REQUIRED	WWF	WELDED WIRE FABRIC
DW	DISHWASHER	MAS	MASONRY	RO	ROUGH OPENING		
DWG	DRAWING	MATL	MATERIAL	SCWD	SOLID CORE WOOD		
EA	EACH	MAX	MAXIMUM	SF	SQUARE FOOT		
EL	ELEVATION	MECH	MECHANICAL	SGD	SLIDING GLASS DOOR		
EQ	EQUAL/EQUALLY	MFR	MANUFACTURER	SIM	SIMILAR		
EQUIP	EQUIPMENT	MIN	MINIMUM	SLD	SOLID		
EXST	EXISTING	MISC	MISCELLANEOUS	SOH	SIMILAR OPPOSITE HAND		
EXT	EXTERIOR	MO	MASONRY OPENING	STN	STAINLESS		

H7 ABBREVIATIONS

TYPICAL for ARCHITECTURAL SHEETS ONLY

PROJECT DESCRIPTION / SUMMARY:

This project is a whole building renovation / alteration of a vacated former Mercantile / retail space (formerly a CVS). Project intent is to provide two Assembly use tenant spaces; one ready for a tenant move-in, the second prepped as a "warm-dry shell" (i.e., no designated tenant). As such, the project is a whole building Change of Occupancy with alterations to create the two spaces. The existing exterior will repaired and painted with a few alterations incorporated (e.g., new openings and replacement of existing doors and storefront). The proposed improvements are to the existing building only. There is no Site/Civil engineering in the scope of work (any such scope is part of current/ongoing adjacent projects).

The existing building is an existing single story structure, 10,156 gross square feet in size, and does not currently have a fire suppression or a fire alarm system (both of which will be added.

The existing property has a Zoning classification of: Transect Zone 'T5 Main Street (T5-MS)'

REFERENCE CODES:

including incorporated amendments

- 2017 OHIO BUILDING CODE (OBC)
- 2017 OHIO MECHANICAL CODE (OMC)
- 2017 OHIO PLUMBING CODE (OPC)
- 2017 NATIONAL ELECTRIC CODE (NFPA 70 or NEC)
- 2009 ICC / ANSI A117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND STRUCTURES
- 2012 IECC or ASHRAE 90.1-2010
- CITY of CINCINNATI BUILDING CODE
- CITY of CINCINNATI form-based CODE

EXISTING BUILDINGS (Chapter 34):

- ***COMPLIANCE PATHWAY FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH OBC 3401.1.1.2 (SECTIONS 3404 THRU 3411)***
- The project constitutes Alterations and Repairs (exterior and interior) of an aged retail building approximately 50 years old.
- There are no proposed Additions to the existing structure
- Change of Occupancy is applicable - the building was last a retail 'M' occupancy, and is being re-classified as 'A-2' Assembly. Intended uses are: Instructional Dance Studio and Event Center/Banquet Hall
- There are alterations to the existing building's load bearing structure components. Lateral improvements are being incorporated in addition to the proposed alterations
- The existing structure's makeup is: Slab-on-grade floor; Load-bearing masonry exterior walls; steel deck/bar joist roof structure, and structural steel interior columns and beams
- The existing structure in 'Nonsprinklered' (NS) and shall become fully 'Sprinklered' (S)
- As a full renovation and change of occupancy, all areas requiring accessibility shall be made accessible per OBC and ICC/ANSI 117.1.

3404.4.1 *Alterations shall comply with the requirements of the code for new construction to the extent of the alteration; portions of the structure not altered and not affected by the alteration are not required to comply with the requirements of new construction. Alterations shall be such the the existing construct is no less complying with the provisions of the code than the existing construct was prior to the alteration.*

3408.4 *Snow, Wind, and Seismic Design. When a change of occupancy results in a structure being reclassified to a higher risk category, the structure shall conform to the snow, wind, and seismic requirements for a new structure of the higher risk category.*

Exceptions:

1. *Specific seismic detailing requirements of Section 1613 for a new structure shall not be required to be met where the seismic performance is shown to be equivalent to that of a new structure. A demonstration of equivalence shall consider the regularity, over strength, redundancy and ductility of the structure.*
2. *When a change of use results in a structure being reclassified from Risk Category I or II to Risk Category III and the structure is located where the seismic coefficient, SDS, is less than 0.33, compliance with the seismic requirements of Section 1613 are not required.*
3. *When a change of use results in a building being reclassified from Risk Category I or II to Risk Category III, work is not required to upgrade the roof snow load capacity or building capacity to resist wind loading, provided the building meets industry standards in place at the time of original construction for snow and wind loading.*

3411.4.2 *Complete change of occupancy. Where an entire building undergoes a change of occupancy, it shall comply with Section 3411.4.1 and shall have all of the following accessible features:*

1. *At least one accessible building entrance.*
2. *At least one accessible route from an accessible building entrance to primary function areas.*
3. *Signage complying with Section 1111.*
4. *Accessible parking, where parking is being provided.*
5. *At least one accessible passenger loading zone, when loading zones are provided.*
6. *At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.*

Where it is technically infeasible to comply with the new construction standards for any of these requirements for a change of group or occupancy, the above items shall conform to the requirements to the maximum extent technically feasible.

3411.6 *Alterations. A building, facility or element that is altered shall comply with the applicable provisions in Chapter 11 of this code, unless technically infeasible.*

OCCUPANCIES for the Areas of Work - i.e., each defined Tenant Space (Chapter 3):

- Tenant Space C100 ... 'A-2' (Assembly)
  - Dual function ... Instructional Dance Studio ('A-3') and Event Center ('A-2')
  - Event Center (e.g., Banquet Hall) is the more restrictive use type (i.e., higher Occupant load), so design is setup based on that function
- Tenant Space C200 ... 'A-2' (Assembly)
  - Warm Dry Shell space ... design setup as a future Event Center

GENERAL BUILDING HEIGHT & AREAS (Chapter 5):

Building Square Footage (per Zoning) = 10,596 GSF, 1-story *(includes thickness of exterior walls)*
Gross Area, Building (per OBC) = 10,227 GSF, 1-story

506.2.2 Max building areas for **5-B** Fully Sprinklered 1-story building
Table 506.2 ..... 'A-2' (S1) = 24,000 SF

506.3 Frontage Increase ..... No Frontage Increase required

Gross Floor Area (SF) per OBC of each Tenant Space
Tenant Space C100 5,122 SF
Tenant Space C200 4,258 SF

TYPES of CONSTRUCTION (Chapter 6): **TYPE 5-B** ... *(Fully Sprinklered)*

Table 601 (Type 5-B)

- No ratings required except as required by Table 602

Table 602 (Type 5-B)

- All Exterior walls with a Fire Separation Distance (F.S.D.) < 10' shall have a 1-hour fire rating *(except openings calculated as an Unprotected Openiig per OBC Table 705.8)*
  - West exterior wall *(abutting adjacent Paramount Building)* = 0' F.S.D. (1-hour)
  - South exterior wall *(fronting E. McMillan Street)* = > 10' F.S.D.
  - East exterior wall 1 *(at recessed Vestibule Entrance)* = > 10' F.S.D.
  - East exterior wall 2 *(abutting adjacent Paramount Building)* = ≥ 5' F.S.D. (1-hour)
    - *see 705.8 data for Unprotected Opening info*
  - North exterior wall *(adjacent to Common Loading Zone)* = 0 to <3' F.S.D. (1-hour)
    - *existing Unprotected Opening to remain via existing 14'± Ingress/Egress easement (see 705.8 data for Unprotected Opening info)*

FIRE and SMOKE PROTECTION FEATURES (Chapter 7):

Aside from existing masonry exterior walls, the project does not have any designated fire-rated assemblies such as Fire Walls, Fire Barriers, Fire Partitions, etc.

Table 705.8 (Max Area of Unprotected Openings in Fire Rated Exterior Walls)

- East exterior wall 2: ≥5' to <10' FSD (UP/S) 25% permitted 21.5% designed
- North exterior wall: ≥10' to <15' FSD* (UP/S) 15% permitted 2.7% designed
  - **via existing ingress/egress easement*

Section 722 Calculated Fire Resistance

The building's mass masonry walls carry a fire-resistance rating well in excess of 1-hour by their material thickness alone.

- The 12" load-bearing solid masonry (CMU, or clay brick, or combo of both) walls on east and west sides of building carry a fire-resistance rating well over 1-hour by their material thickness alone (both materials require < 3" thickness for a 1-hour rating ... *ref 722.3 & 722.4)*
- The non load-bearing mass hollow masonry (CMU) wall at the North end of building also carries a fire-resistance rating well in excess of 1-hour based on its material equivalent thickness (e.g., a std ungrouted 8x8x16" CMU wall carries a min equivalent thickness of 3.8, translating to a 1½ hr fire rating per Table 722.3.2

INTERIOR FINISHES (Chapter 8):

INTERIOR WALL & CEILING FINISHES SHALL MEET THE FOLLOWING MIN. REQUIREMENTS:

- CORRIDORS + EXIT ACCESS STAIRS/RAMPS:
  - Class B ... 'A-2' occupancies
- ROOMS AND ENCLOSED SPACES:
  - Class C ... 'A-2' or 'A-3' occupancies

FIRE PROTECTION (Chapter 9):
THE EXISTING STRUCTURE SHALL BE EQUIPPED WITH A FULLY AUTOMATIC AUTOMATIC SPRINKLER and FIRE ALARM SYSTEM.

FIRE PROTECTION SYSTEM DESIGN & DOCUMENTATION TO BE PREPARED by a LICENSED FIRE PROTECTION DESIGN PROFESSIONAL UNDER SEPARATE COVER via DELEGATED DESIGN

903.2.1.3 Sprinkler Systems (A-2): The Fire Area has a Occupant Load >300

906 Ordinary (Moderate) Hazard Category; 2-A 10-B fire extinguishers installed within each tenant space at a max travel distance of 75' *(coordinate exact locations with local Fire Dept authority)*

907.2.1 Fire Alarm Systems (A-2): The Fire Area has a Occupant Load >300. Manual pull boxes not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

OCCUPANT LOAD / MEANS of EGRESS DATA (Chapter 10):

TABLE 1004.1.1, Occupancy Load

Space	Occ.	SF	Design Occ. Load*	Exits(reqd)	Exits(designed)
C100	A-2	5,122 sf	265 MAX occupants	2	3
C200	A-2	4,258 sf	250 MAX occupants	2	2

**SEE SHEET G101 FOR DETAILED OCCUPANT LOAD DATA*

1007.1 Accessible Means of Egress - with a Change of Occupancy, each tenant shell space shall be improved as required to provide accessible Entrances and Exits

SEE SHEET G101 FOR ADDITIONAL OCCUPANCY & EGRESS DATA

MINIMUM PLUMBING FACILITIES (Chapter 29):

Table 2902.1: based on MAX Occupant Loads as stated and equally divided amongst Men & Women

C100 - 265 Occupants / 2 = 133 Men & 133 Women
C200 - 250 Occupants / 2 = 125 Men & 125 Women

FIXTURE	M	W	*Banquet Hall is closet description match to an Event Center*
Water Closets	1:75*	1:75*	
C100	2 req'd	2 req'd	4 Unisex provided each space
C200	2 req'd	2 req'd	4 Unisex provided each space
Lavatories	1:200	1:200	2 total required; 4 total provided ea. space
Drinking Fountains	1:500		1 required; 1 "Hil-Lo" provided each space
Service Sink			1 required; 1 provided each space

A7 CODE DATA and PROJECT DESCRIPTION

DRAWING #	DRAWING TITLE	ORIGINAL ISSUE
G000	TITLE SHEET / PROJECT DATA	09.01.2023
G001	PROJECT REQUIREMENTS	09.01.2023
G100	ARCHITECTURAL SITE PLAN	09.01.2023
G101	OCCUPANCY & EGRESS PLANS	09.01.2023
D101	SELECTIVE DEMOLITION FLOOR PLAN	09.01.2023
D102	SELECTIVE DEMOLITION ROOF PLAN	09.01.2023
A101	FLOOR & REFLECTED CEILING PLANS	09.01.2023
A102	ENLARGED FLOOR PLAN	09.01.2023
A103	ENLARGED FLOOR PLAN	09.01.2023
A110	ROOF PLAN	09.01.2023
A201	BUILDING ELEVATIONS	09.01.2023
A202	BUILDING ELEVATIONS	09.01.2023
A401	ENLARGED TOILET RM PLANS & DETAILS	09.01.2023
A402	INTERIOR SECTIONS & DETAILS	09.01.2023
A501	INTERIOR PARTITION DATA	09.01.2023
A601	OPENINGS DATA & DOOR SCHEDULE	09.01.2023
S001	GENERAL STRUCTURAL NOTES	09.01.2023
S110	FOUNDATION PLAN	09.01.2023
S120	FRAMING PLAN	09.01.2023
S310	FOUNDATION SECTIONS	09.01.2023
S320	FRAMING SECTIONS	09.01.2023
S321	FRAMING SECTIONS	09.01.2023
P-101	PLUMBING PLAN	09.01.2023
P-501	PLUMBING SCHEDULE & NOTES	09.01.2023
P-601	PLUMBING DETAILS	09.01.2023
M-101	MECHANICAL PLAN	09.01.2023
M-501	MECHANICAL SCHEDULE & NOTES	09.01.2023
M-601	MECHANICAL DETAILS	09.01.2023
E-001	SITE ELECTRIC PLAN	09.01.2023
E-101	LIGHTING PLAN	09.01.2023
E-102	POWER PLAN	09.01.2023
E-202	ROOF POWER PLAN	09.01.2023
E-501	SINGLE LINE and PANEL SCHEDULES	09.01.2023
E-601	ELECTRICAL DETAILS	09.01.2023

D10 DRAWING INDEX

DOTS in DELTA COLUMNS REFLECT AMENDED SHEETS IN THE RESPECTIVE REVISION

REVISION No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

A. BEFORE BEGINNING WORK OR ANY PORTION OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS, AS WELL AS INFORMATION PROVIDED BY THE OWNER/OWNER'S REPRESENTATIVE. FIELD MEASURE AND OBSERVE THE EXISTING CONDITIONS RELATED TO OR AFFECTING THE WORK. THESE OBLIGATIONS ARE FOR THE PURPOSE OF DISCOVERING ERRORS, OMISSIONS, OR INCONSISTENCIES IN THE CONTRACT DOCUMENTS, HOWEVER, INCONSISTENCIES OR OMISSIONS DISCOVERED SHALL BE REPORTED PROMPTLY TO THE ARCHITECT.

B. ALL WORK IS TO BE PERFORMED AND INSTALLED IN AN APPROVED WORKMANLIKE MANNER, TO THE HIGHEST STANDARD OF CRAFTSMANSHIP BY THEIR RESPECTIVE TRADES. ALL WORK SHALL BE INSTALLED/PERFORMED IN ACCORDANCE WITH GOVERNING CODES AND REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, OSHA.

C. OWNER IS RESPONSIBLE FOR PULLING AND PAYING FOR THE BUILDING PERMIT. GENERAL CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR MAINTAINING ALL LICENSES AS NECESSARY.

D. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, SAFETY, DEMOLITION, OR NEW CONSTRUCTION, AS THESE ARE THE RESPONSIBILITY OF THE CONTRACTOR(S) PERFORMING THE WORK.

E. CONTRACTOR SHALL MAINTAIN CURRENT / APPROPRIATE INSURANCE LIMITS AND COVERAGES FOR THE SIZE AND SCALE OF THE WORK.

F. IN CIRCUMSTANCES WHERE CONFLICTING INFORMATION IS SHOWN, CONTACT ARCHITECT BEFORE PROCEEDING.

G. PROVIDE TEMPORARY LIGHTING AND POWER THROUGHOUT THE COURSE OF DEMOLITION AND CONSTRUCTION AS REQUIRED.

H. ALL MATERIALS, PRODUCTS, AND SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURERS INSTRUCTIONS, REQUIREMENTS, RECOMMENDATIONS, AND SPECIFICATIONS.

J. INTERIOR WALL and CEILING FINISHES SHALL MEET THE FOLLOWING REQUIREMENTS: ROOMS AND ENCLOSED SPACES: CLASS C

K. INTERIOR FLOOR FINISHES SHALL MEET THE FOLLOWING REQUIREMENTS: ROOMS AND ENCLOSED SPACES: CLASS II in place of required CLASS I; DOC FF-1 in place of required CLASS II

L. NO INVESTIGATION, TESTING, OR DETERMINATION HAS BEEN MADE BY THE ARCHITECT OR THE ARCHITECT'S CONSULTANTS AS TO THE PRESENCE OF ASBESTOS, MOLD, OR ANY OTHER HAZARDOUS MATERIAL IN EXISTING CONSTRUCTION. NEITHER THE ARCHITECT NOR THE ARCHITECT'S CONSULTANTS ARE RESPONSIBLE FOR THE IDENTIFICATION, REMEDIATION, OR REMOVAL OF ANY SUCH MATERIAL.

M. THE CONTRACTOR MAY NOT INSTALL ANY MATERIAL WHICH IS COMPOSED OF OR CONTAINS ASBESTOS.

N. BOTH THE CONTRACTOR AND THE OWNER ACKNOWLEDGE AND AGREE THAT THE ARCHITECT HAD LIMITED ACCESS TO SPACES AND STRUCTURE OF THE EXISTING BUILDING FOR WHICH WORK IS PROPOSED, AND THAT MORE INVESTIGATION MAY BE REQUIRED AS DEMOLITION UNCOVERS UNFORESEEN CONDITIONS OR NEW WORK REQUIRES ADJUSTMENT TO THE CONTRACT DOCUMENTS IN ORDER TO ACHIEVE DESIGN INTENT. WHERE SUCH UNFORESEEN CONDITIONS ARE EXPOSED, EITHER THROUGH DEMOLITION OR NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING.

P. PROVIDE THRU-PENETRATION FIRE STOP SYSTEMS AS REQUIRED at ALL FIRE-RATED ASSEMBLIES.

Q. EXCLUDING PROVISION OF ADDRESS NUMBERING AND INTERIOR SIGNAGE REQUIRED PER CODE, ALL SIGNAGE (BUILDING MOUNTED and/or SITE MONUMENT) SHALL BE DOCUMENTED, PERMITTED, AND CONSTRUCTED by OTHERS UNDER SEPARATE PERMIT

A10 GENERAL PROJECT NOTES

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

OWNER:
PORT of GREATER CINCINNATI DEVELOPMENT AUTHORITY
c/o MODEL GROUP
1826 RACE STREET
CINCINNATI, OH 45202
CONTACT: ALEX ZYNDORF
EMAIL: azyndorf@modelgroup.net

ARCHITECT:
d.b.a. NEW REPUBLIC ARCHITECTURE
1936 RACE STREET, SUITE C101
CINCINNATI, OH 45202
CONTACT: WILLIAM HOLLENKAMP, AIA
PHONE: (513) 800-1580 x708
EMAIL: bill@newrepublicarchitecture.com

STRUCTURAL ENGINEERING CONSULTANT:
ADVANTAGE GROUP ENGINEERS, INC.
1527 MADISON ROAD
CINCINNATI, OH 45206
CONTACT: KYLE JENKINS, PE
PHONE: (513) 396-8900 x1007
EMAIL: kjenkins@advantageSE.com

MEP ENGINEERING CONSULTANT:
E2M CONSULTING ENGINEERING, INC.
682 TUXEDO PLACE
CINCINNATI, OH 45206
CONTACT: KEVIN ROBBEN
PHONE: (513) 587-0050
EMAIL: krobben@e2m-eng.com

NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

STATE OF OHIO GRAHAM MICHAEL KALBLI 13499 REGISTERED ARCHITECT

Drawing Title

TITLE SHEET / PROJECT DATA

Document No.

G000

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

A1 PROJECT REQUIREMENTS

SECTION 01 00 00 - GENERAL REQUIREMENTS

1.1 PROJECT MANAGEMENT AND COORDINATION: COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN DIFFERENT SECTIONS OF THE SPECIFICATIONS TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.

A. ADMINISTRATIVE PROCEDURES: COORDINATE SCHEDULING AND TIMING OF REQUIRED ADMINISTRATIVE PROCEDURES WITH OTHER CONSTRUCTION ACTIVITIES TO AVOID CONFLICTS AND TO ENSURE ORDERLY PROGRESS OF THE WORK.

B. CONSERVATION: COORDINATE CONSTRUCTION ACTIVITIES TO ENSURE THAT OPERATIONS ARE CARRIED OUT WITH CONSIDERATION GIVEN TO CONSERVATION OF ENERGY, WATER, AND MATERIALS. COORDINATE USE OF TEMPORARY UTILITIES TO MINIMIZE WASTE.

C. REQUEST FOR INFORMATION (RFIS): IMMEDIATELY ON DISCOVERY OF THE NEED FOR ADDITIONAL INFORMATION OR INTERPRETATION OF THE CONTRACT DOCUMENTS, CONTRACTOR SHALL PREPARE AND SUBMIT AN RFI IN THE FORM SPECIFIED.

1. ALL RFI'S SHALL BE SUBMITTED FROM THE CONTRACTOR. ARCHITECT WILL RETURN RFIS SUBMITTED TO ARCHITECT BY OTHER ENTITIES CONTROLLED BY CONTRACTOR (I.E. SUBCONTRACTORS) WITH NO RESPONSE. COORDINATE AND SUBMIT RFI'S IN A PROMPT MANNER SO AS TO AVOID DELAYS IN CONTRACTOR'S WORK OR WORK OF SUBCONTRACTORS.
2. ARCHITECT'S ACTION: ARCHITECT WILL REVIEW EACH RFI, DETERMINE ACTION REQUIRED, AND RESPOND. ALLOW TWO WORKING DAYS FOR ARCHITECT'S RESPONSE FOR EACH RFI (5 WORKING DAYS FOR RFI'S WITH MULTIPLE INQUIRES). RFI'S RECEIVED BY ARCHITECT AFTER 1:00 P.M. WILL BE CONSIDERED AS RECEIVED THE FOLLOWING WORKING DAY.
   a. THE FOLLOWING RFIS WILL BE RETURNED WITHOUT ACTION:
      1) REQUESTS FOR APPROVAL OF SUBMITTALS.
      2) REQUESTS FOR APPROVAL OF SUBSTITUTIONS.
      3) REQUESTS FOR COORDINATION INFORMATION ALREADY INDICATED IN THE CONTRACT DOCUMENTS.
      4) REQUESTS FOR ADJUSTMENTS IN THE CONTRACT TIME OR THE CONTRACT SUM.
      5) REQUESTS FOR INTERPRETATION OF ARCHITECT'S ACTIONS ON SUBMITTALS.
      6) INCOMPLETE RFI'S OR INACCURATELY PREPARED RFI'S.
3. ARCHITECT'S ACTION ON RFI'S THAT MAY RESULT IN A CHANGE TO THE CONTRACT TIME OR THE CONTRACT SUM MAY BE ELIGIBLE FOR CONTRACTOR TO SUBMIT CHANGE PROPOSAL ACCORDING TO ARTICLE "CONTRACT MODIFICATION PROCEDURES."
4. IF CONTRACTOR BELIEVES THE RFI RESPONSE WARRANTS CHANGE IN THE CONTRACT TIME OR THE CONTRACT SUM, NOTIFY OWNER REP (COPY ARCHITECT) IN WRITING WITHIN SEVEN DAYS OF RECEIPT OF THE RFI RESPONSE.
5. RFI LOG: PREPARE, MAINTAIN, AND SUBMIT A TABULAR LOG OF RFIS ORGANIZED BY THE RFI NUMBER.

1.2 QUALITY REQUIREMENTS

A. CONFLICTING REQUIREMENTS
1. REFERENCED STANDARDS: IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER CONFLICTING REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
2. MINIMUM QUANTITY OR QUALITY LEVELS: THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.

B. QUALITY ASSURANCE
1. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING PRODUCTS OR SYSTEMS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS.
2. FABRICATOR QUALIFICATIONS: A FIRM EXPERIENCED IN PRODUCING PRODUCTS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS.
3. INSTALLER QUALIFICATIONS: A FIRM OR INDIVIDUAL EXPERIENCED IN INSTALLING, ERECTING, OR ASSEMBLING WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT, WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
4. PROFESSIONAL ENGINEER QUALIFICATIONS: A PROFESSIONAL ENGINEER WHO IS LEGALLY QUALIFIED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. ENGINEERING SERVICES ARE DEFINED AS THOSE PERFORMED FOR INSTALLATIONS OF THE SYSTEM, ASSEMBLY, OR PRODUCT THAT ARE SIMILAR TO THOSE INDICATED FOR THIS PROJECT IN MATERIAL, DESIGN, AND EXTENT.
5. TESTING AGENCY QUALIFICATIONS: AN NRTL, AN NVLAP, OR AN INDEPENDENT AGENCY WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT TESTING AND INSPECTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 329; AND WITH ADDITIONAL QUALIFICATIONS SPECIFIED IN INDIVIDUAL SECTIONS; AND WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION, THAT IS ACCEPTABLE TO AUTHORITIES.
   a. NRTL: A NATIONALLY RECOGNIZED TESTING LABORATORY ACCORDING TO 29 CFR 1910.7.
   b. NVLAP: A TESTING AGENCY ACCREDITED ACCORDING TO NIST'S NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.
6. MANUFACTURER'S TECHNICAL REPRESENTATIVE QUALIFICATIONS: AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER WHO IS TRAINED AND APPROVED BY MANUFACTURER TO OBSERVE AND INSPECT INSTALLATION OF MANUFACTURER'S PRODUCTS THAT ARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT.
7. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE QUALIFICATIONS: AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER WHO IS TRAINED AND APPROVED BY MANUFACTURER TO INSPECT INSTALLATION OF MANUFACTURER'S PRODUCTS THAT ARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT.

C. QUALITY CONTROL
1. OWNER RESPONSIBILITIES: WHERE QUALITY-CONTROL SERVICES ARE INDICATED AS OWNER'S RESPONSIBILITY, OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM THESE SERVICES.
   a. COSTS FOR RETESTING AND REINSPECTING CONSTRUCTION THAT REPLACES OR IS NECESSITATED BY WORK THAT FAILED TO COMPLY WITH THE CONTRACT DOCUMENTS WILL BE CHARGED TO CONTRACTOR.
2. CONTRACTOR RESPONSIBILITIES: TESTS AND INSPECTIONS NOT EXPLICITLY ASSIGNED TO OWNER ARE CONTRACTOR'S RESPONSIBILITY. PERFORM ADDITIONAL QUALITY-CONTROL ACTIVITIES REQUIRED TO VERIFY THAT THE WORK COMPLIES WITH REQUIREMENTS, WHETHER SPECIFIED OR NOT.
3. MANUFACTURER'S FIELD SERVICES: WHERE INDICATED, ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT FIELD-ASSEMBLED COMPONENTS AND EQUIPMENT INSTALLATION, INCLUDING SERVICE CONNECTIONS. REPORT RESULTS IN WRITING AS SPECIFIED IN "SUBMITTAL PROCEDURES" ARTICLE.
4. MANUFACTURER'S TECHNICAL SERVICES: WHERE INDICATED, ENGAGE A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO OBSERVE AND INSPECT THE WORK. MANUFACTURER'S TECHNICAL REPRESENTATIVE'S SERVICES INCLUDE PARTICIPATION IN PREINSTALLATION CONFERENCES, EXAMINATION OF SUBSTRATES AND CONDITIONS, VERIFICATION OF MATERIALS, OBSERVATION OF INSTALLER ACTIVITIES, INSPECTION OF COMPLETED PORTIONS OF THE WORK, AND SUBMITTAL OF WRITTEN REPORTS.
5. RETESTING/REINSPECTING: REGARDLESS OF WHETHER ORIGINAL TESTS OR INSPECTIONS WERE CONTRACTOR'S RESPONSIBILITY, PROVIDE QUALITY-CONTROL SERVICES, INCLUDING RETESTING AND REINSPECTING, FOR CONSTRUCTION THAT REPLACED WORK THAT FAILED TO COMPLY WITH THE CONTRACT DOCUMENTS USING LABORATORY FOR RETESTING AND REINSPECTING APPROVED BY ARCHITECT

D. SPECIAL TESTS AND INSPECTIONS: OWNER WILL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO CONDUCT SPECIAL TESTS AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION AS THE RESPONSIBILITY OF OWNER, AS INDICATED IN STATEMENT OF SPECIAL INSPECTIONS ATTACHED TO THIS SECTION.

E. TEST AND INSPECTION LOG: PREPARE A RECORD OF TESTS AND INSPECTIONS. POST CHANGES AND MODIFICATIONS AS THEY OCCUR. PROVIDE ACCESS TO TEST AND INSPECTION LOG FOR ARCHITECT'S REFERENCE DURING NORMAL WORKING HOURS.

F. REPAIR AND PROTECTION: ON COMPLETION OF TESTING, INSPECTING, SAMPLE TAKING, AND SIMILAR SERVICES, REPAIR DAMAGED CONSTRUCTION AND RESTORE SUBSTRATES AND FINISHES.

1.3 TEMPORARY FACILITIES AND CONTROLS

A. USE CHARGES: INSTALLATION AND REMOVAL OF AND USE CHARGES FOR TEMPORARY FACILITIES SHALL BE INCLUDED IN THE CONTRACT SUM UNLESS OTHERWISE INDICATED. ALLOW OTHER ENTITIES TO USE TEMPORARY SERVICES AND FACILITIES WITHOUT COST, INCLUDING, BUT NOT LIMITED TO, OWNER'S CONSTRUCTION FORCES, ARCHITECT, OCCUPANTS OF PROJECT, TESTING AGENCIES, AND AUTHORITIES HAVING JURISDICTION.
1. WATER SERVICE: PAY WATER SERVICE USE CHARGES FOR WATER USED BY ALL ENTITIES FOR CONSTRUCTION OPERATIONS.
2. ELECTRIC POWER SERVICE: PAY ELECTRIC POWER SERVICE USE CHARGES FOR ELECTRICITY USED BY ALL ENTITIES FOR CONSTRUCTION OPERATIONS.

B. QUALITY ASSURANCE
1. ELECTRIC SERVICE: COMPLY WITH NECA, NEMA, AND UL STANDARDS AND REGULATIONS FOR TEMPORARY ELECTRIC SERVICE. INSTALL SERVICE TO COMPLY WITH NFPA 70.
2. TESTS AND INSPECTIONS: ARRANGE FOR AUTHORITIES HAVING JURISDICTION TO TEST AND INSPECT EACH TEMPORARY UTILITY BEFORE USE. OBTAIN REQUIRED CERTIFICATIONS AND PERMITS.

C. TEMPORARY USE OF PERMANENT FACILITIES: ENGAGE INSTALLER OF EACH PERMANENT SERVICE TO ASSUME RESPONSIBILITY FOR OPERATION, MAINTENANCE, AND PROTECTION OF EACH PERMANENT SERVICE DURING ITS USE AS A CONSTRUCTION FACILITY BEFORE OWNER'S ACCEPTANCE, REGARDLESS OF PREVIOUSLY ASSIGNED RESPONSIBILITIES.

D. EQUIPMENT
1. FIRE EXTINGUISHERS: PORTABLE, UL RATED; WITH CLASS AND EXTINGUISHING AGENT AS RZUIRED BY LOCATIONS AND CLASSES OF FIRE EXPOSURES.

E. TEMPORARY UTILITY INSTALLATION
1. GENERAL: INSTALL TEMPORARY SERVICE OR CONNECT TO EXISTING SERVICE. ARRANGE WITH UTILITY COMPANY, OWNER REP, AND EXISTING USERS FOR TIME WHEN SERVICE CAN BE INTERRUPTED, IF NECESSARY, TO MAKE CONNECTIONS FOR TEMPORARY SERVICES.
2. HEATING, COOLING, AND VENTILATION AND HUMIDITY CONTROL: PROVIDE TEMPORARY HEATING, COOLING AND VENTILATION AND HUMIDITY CONTROL REQUIRED BY CONSTRUCTION ACTIVITIES FOR CURING OR DRYING OF COMPLETED INSTALLATIONS OR FOR PROTECTING INSTALLED CONSTRUCTION FROM ADVERSE EFFECTS OF LOW TEMPERATURES OR HIGH HUMIDITY. SELECT EQUIPMENT THAT WILL NOT HAVE A HARMFUL EFFECT ON COMPLETED INSTALLATIONS OR ELEMENTS BEING INSTALLED.
3. ELECTRIC POWER SERVICE: PROVIDE ELECTRIC POWER SERVICE AND DISTRIBUTION SYSTEM OF SUFFICIENT SIZE, CAPACITY, AND POWER CHARACTERISTICS REQUIRED FOR CONSTRUCTION OPERATIONS.
4. LIGHTING: PROVIDE TEMPORARY LIGHTING WITH LOCAL SWITCHING THAT PROVIDES ADEQUATE ILLUMINATION FOR CONSTRUCTION OPERATIONS, OBSERVATIONS, INSPECTIONS, AND TRAFFIC CONDITIONS. INSTALL AND OPERATE TEMPORARY LIGHTING THAT FULFILLS SECURITY AND PROTECTION REQUIREMENTS WITHOUT OPERATING ENTIRE SYSTEM.
5. TELEPHONE SERVICE: PROVIDE TEMPORARY TELEPHONE SERVICE IN COMMON-USE FACILITIES AS NEEDED FOR USE BY ALL CONSTRUCTION PERSONNEL.

F. SUPPORT FACILITIES INSTALLATION
1. MAINTAIN SUPPORT FACILITIES UNTIL ARCHITECT SCHEDULES SUBSTANTIAL COMPLETION INSPECTION. REMOVE BEFORE SUBSTANTIAL COMPLETION. PERSONNEL REMAINING AFTER SUBSTANTIAL COMPLETION WILL BE PERMITTED TO USE PERMANENT FACILITIES, UNDER CONDITIONS ACCEPTABLE TO OWNER.
2. PROJECT SIGNS: PROVIDE PROJECT SIGNS AS INDICATED. UNAUTHORIZED SIGNS ARE NOT PERMITTED.
   a. TEMPORARY SIGNS: PROVIDE OTHER SIGNS AS INDICATED AND AS REQUIRED TO INFORM PUBLIC AND INDIVIDUALS SEEKING ENTRANCE TO PROJECT.
3. WASTE DISPOSAL FACILITIES: PROVIDE WASTE-COLLECTION CONTAINERS IN SIZES ADEQUATE TO HANDLE WASTE FROM CONSTRUCTION OPERATIONS. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. COMPLY WITH "EXECUTION" ARTICLE FOR PROGRESS CLEANING REQUIREMENTS.

G. SECURITY AND PROTECTION FACILITIES INSTALLATION
1. SECURITY ENCLOSURE AND LOCKUP: INSTALL TEMPORARY ENCLOSURE AROUND PARTIALLY COMPLETED AREAS OF CONSTRUCTION. PROVIDE LOCKABLE ENTRANCES TO PREVENT UNAUTHORIZED ENTRANCE, VANDALISM, THEFT, AND SIMILAR VIOLATIONS OF SECURITY. LOCK ENTRANCES AT END OF EACH WORK DAY.
2. BARRICADES, WARNING SIGNS, AND LIGHTS: COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR ERECTING STRUCTURALLY ADEQUATE BARRICADES, INCLUDING WARNING SIGNS AND LIGHTING.
3. TEMPORARY ENCLOSURES: PROVIDE TEMPORARY ENCLOSURES FOR PROTECTION OF CONSTRUCTION, IN PROGRESS AND COMPLETED, FROM EXPOSURE, FOUL WEATHER, OTHER CONSTRUCTION OPERATIONS, AND SIMILAR ACTIVITIES. PROVIDE TEMPORARY WEATHERTIGHT ENCLOSURE FOR BUILDING EXTERIOR.

H. MOISTURE AND MOLD CONTROL
1. EXPOSED CONSTRUCTION PHASE: BEFORE INSTALLATION OF WEATHER BARRIERS, WHEN MATERIALS ARE SUBJECT TO WETTING AND EXPOSURE AND TO AIRBORNE MOLD SPORES, PROTECT AS FOLLOWS:
   a. PROTECT POROUS MATERIALS FROM WATER DAMAGE.
   b. PROTECT STORED AND INSTALLED MATERIAL FROM FLOWING OR STANDING WATER.
   c. KEEP POROUS AND ORGANIC MATERIALS FROM COMING INTO PROLONGED CONTACT WITH CONCRETE.
   d. REMOVE STANDING WATER FROM DECKS.
   e. KEEP DECK OPENINGS COVERED OR DAMMED.
2. PARTIALLY ENCLOSED CONSTRUCTION PHASE: AFTER INSTALLATION OF WEATHER BARRIERS BUT BEFORE FULL ENCLOSURE AND CONDITIONING OF BUILDING, WHEN INSTALLED MATERIALS ARE STILL SUBJECT TO INFILTRATION OF MOISTURE AND AMBIENT MOLD SPORES, PROTECT AS FOLLOWS:
   a. DO NOT LOAD OR INSTALL DRYWALL OR OTHER POROUS MATERIALS OR COMPONENTS, OR ITEMS WITH HIGH ORGANIC CONTENT, INTO PARTIALLY ENCLOSED BUILDING.
   b. KEEP INTERIOR SPACES REASONABLY CLEAN AND PROTECTED FROM WATER DAMAGE.
   c. PERIODICALLY COLLECT AND REMOVE WASTE CONTAINING CELLULOSE OR OTHER ORGANIC MATTER.
   d. DISCARD OR REPLACE WATER-DAMAGED MATERIAL.
   e. DO NOT INSTALL MATERIAL THAT IS WET.
   f. DISCARD, REPLACE OR CLEAN STORED OR INSTALLED MATERIAL THAT BEGINS TO GROW MOLD.
   g. PERFORM WORK IN A SEQUENCE THAT ALLOWS ANY WET MATERIALS ADEQUATE TIME TO DRY BEFORE ENCLOSING THE MATERIAL IN DRYWALL OR OTHER INTERIOR FINISHES.
3. CONTROLLED CONSTRUCTION PHASE OF CONSTRUCTION: AFTER COMPLETING AND SEALING OF THE BUILDING ENCLOSURE BUT PRIOR TO THE FULL OPERATION OF PERMANENT HVAC SYSTEMS, MAINTAIN AS FOLLOWS:
   a. CONTROL MOISTURE AND HUMIDITY INSIDE BUILDING BY MAINTAINING EFFECTIVE DRY-IN CONDITIONS.
   b. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, RELATIVE HUMIDITY, AND EXPOSURE TO WATER LIMITS.

I. TERMINATION AND REMOVAL: REMOVE EACH TEMPORARY FACILITY WHEN NEED FOR ITS SERVICE HAS ENDED, WHEN IT HAS BEEN REPLACED BY AUTHORIZED USE OF A PERMANENT FACILITY, OR NO LATER THAN SUBSTANTIAL COMPLETION. COMPLETE OR, IF NECESSARY, RESTORE PERMANENT CONSTRUCTION THAT MAY HAVE BEEN DELAYED BECAUSE OF INTERFERENCE WITH TEMPORARY FACILITY. REPAIR DAMAGED WORK, CLEAN EXPOSED SURFACES, AND REPLACE CONSTRUCTION THAT CANNOT BE SATISFACTORILY REPAIRED.

1.4 PRODUCT REQUIREMENTS

A. COMPARABLE PRODUCT REQUESTS: SUBMIT REQUEST FOR CONSIDERATION OF EACH COMPARABLE PRODUCT. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.
1. ARCHITECT'S ACTION: IF NECESSARY, ARCHITECT WILL REQUEST ADDITIONAL INFORMATION OR DOCUMENTATION FOR EVALUATION WITHIN ONE WEEK OF RECEIPT OF A COMPARABLE PRODUCT REQUEST. ARCHITECT WILL NOTIFY CONTRACTOR OF APPROVAL OR REJECTION OF PROPOSED COMPARABLE PRODUCT REQUEST WITHIN 5 DAYS OF RECEIPT OF REQUEST, OR SEVEN DAYS OF RECEIPT OF ADDITIONAL INFORMATION OR DOCUMENTATION, WHICHEVER IS LATER. USE PRODUCT SPECIFIED IF ARCHITECT DOES NOT ISSUE A DECISION ON USE OF A COMPARABLE PRODUCT REQUEST WITHIN TIME ALLOCATED.

B. BASIS-OF-DESIGN PRODUCT SPECIFICATION SUBMITTAL: COMPLY WITH REQUIREMENTS IN "SUBMITTAL PROCEDURES" ARTICLE IN THIS SECTION. SHOW COMPLIANCE WITH REQUIREMENTS.

C. COMPATIBILITY OF OPTIONS: IF CONTRACTOR IS GIVEN OPTION OF SELECTING BETWEEN TWO OR MORE PRODUCTS FOR USE ON PROJECT, SELECT PRODUCT COMPATIBLE WITH PRODUCTS PREVIOUSLY SELECTED, EVEN IF PREVIOUSLY SELECTED PRODUCTS WERE ALSO OPTIONS.

D. PRODUCT DELIVERY, STORAGE, AND HANDLING: DELIVER, STORE, AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT AND VANDALISM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT PROJECT SITE AND TO PREVENT OVERCROWDING OF CONSTRUCTION SPACES.
2. COORDINATE DELIVERY WITH INSTALLATION TIME TO ENSURE MINIMUM HOLDING TIME FOR ITEMS THAT ARE FLAMMABLE, HAZARDOUS, EASILY DAMAGED, OR SENSITIVE TO DETERIORATION, THEFT, AND OTHER LOSSES.
3. DELIVER PRODUCTS TO PROJECT SITE IN AN UNDAMAGED CONDITION IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR OTHER PACKAGING SYSTEM, COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING, AND INSTALLING.
4. INSPECT PRODUCTS ON DELIVERY TO DETERMINE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND TO DETERMINE THAT PRODUCTS ARE UNDAMAGED AND PROPERLY PROTECTED.
5. STORE PRODUCTS TO ALLOW FOR INSPECTION AND MEASUREMENT OF QUANTITY OR COUNTING OF UNITS.
6. STORE MATERIALS IN A MANNER THAT WILL NOT ENDANGER PROJECT STRUCTURE.
7. STORE PRODUCTS THAT ARE SUBJECT TO DAMAGE BY THE ELEMENTS, UNDER COVER IN A WEATHERTIGHT ENCLOSURE ABOVE GROUND, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION.
8. STORE FOAM PLASTIC FROM EXPOSURE TO SUNLIGHT, EXCEPT TO EXTENT NECESSARY FOR PERIOD OF INSTALLATION AND CONCEALMENT.
9. COMPLY WITH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, HUMIDITY, VENTILATION, AND WEATHER-PROTECTION REQUIREMENTS FOR STORAGE.
10. PROTECT STORED PRODUCTS FROM DAMAGE AND LIQUIDS FROM FREEZING.

E. PRODUCT WARRANTIES: WARRANTIES SPECIFIED IN OTHER SECTIONS SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES REQUIRED BY THE CONTRACT DOCUMENTS. MANUFACTURER'S DISCLAIMERS AND LIMITATIONS ON PRODUCT WARRANTIES DO NOT RELIEVE CONTRACTOR OF OBLIGATIONS UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.

F. PRODUCT SELECTION PROCEDURES: PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, ARE UNDAMAGED AND, UNLESS OTHERWISE INDICATED, ARE NEW AT TIME OF INSTALLATION. PROCEDURES DEFINED BELOW MAY OR MAY NOT BE INCLUDED IN THE WORK OF THIS PROJECT. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL NOT BE CONSIDERED UNLESS OTHERWISE INDICATED.
1. PRODUCT: PROVIDE THE NAMED PRODUCT THAT COMPLIES WITH REQUIREMENTS.
2. MANUFACTURER: PROVIDE A PRODUCT BY THE NAMED MANUFACTURER THAT COMPLIES WITH REQUIREMENTS. .
3. PRODUCTS: PROVIDE ONE OF THE PRODUCTS LISTED THAT COMPLIES WITH REQUIREMENTS.
4. MANUFACTURERS: PROVIDE A PRODUCT BY ONE OF THE MANUFACTURERS LISTED THAT COMPLIES WITH REQUIREMENTS.
5. BASIS-OF-DESIGN PRODUCT:
   a. WHERE SPECIFICATIONS NAME A PRODUCT, OR REFER TO A PRODUCT INDICATED ON DRAWINGS, AND INCLUDE A LIST OF MANUFACTURERS, PROVIDE THE SPECIFIED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE OTHER NAMED MANUFACTURERS. SUBMIT COMPARABLE PRODUCTS AS SPECIFIED "SUBSTITUTION PROCEDURES" ARTICLE. DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, DIMENSIONS, AND OTHER CHARACTERISTICS THAT ARE BASED ON THE PRODUCT NAMED.
   b. WHERE SPECIFICATIONS NAME A PRODUCT, OR REFER TO A PRODUCT INDICATED ON DRAWINGS, BUT DO NOT INCLUDE A LIST OF MANUFACTURERS, PROVIDE THE SPECIFIED PRODUCT OR A COMPARABLE PRODUCT THAT IS APPROVED BY SUBSTITUTION PRIOR TO DATE FOR RECEIPT OF BIDS. SUBMIT COMPARABLE PRODUCTS AS SPECIFIED IN "SUBSTITUTION PROCEDURES" ARTICLE. DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, DIMENSIONS, AND OTHER CHARACTERISTICS THAT ARE BASED ON THE PRODUCT NAMED.

G. COMPARABLE PRODUCTS: ARCHITECT WILL CONSIDER CONTRACTOR'S REQUEST FOR COMPARABLE PRODUCT WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, ARCHITECT MAY RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:
1. EVIDENCE THAT THE PROPOSED PRODUCT DOES NOT REQUIRE REVISIONS TO THE CONTRACT DOCUMENTS, THAT IT IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE THE INDICATED RESULTS, AND THAT IT IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
2. REQUEST IS IN THE FORM OF A SUBSTITUTION AS SPECIFIED IN "SUBSTITUTION PROCEDURES" ARTICLE.
3. SAMPLES, IF REQUESTED.

1.5 SUBSTITUTION PROCEDURES

A. SUBSTITUTION REQUESTS: SUBMIT THREE COPIES OF EACH REQUEST FOR CONSIDERATION. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.
1. WRITTEN SUBSTITUTION REQUEST
2. PROVIDE CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY SUBSEQUENTLY BECOME NECESSARY BECAUSE OF FAILURE OF PROPOSED SUBSTITUTION TO PRODUCE INDICATED RESULTS.
3. ARCHITECT'S ACTION: ARCHITECT WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTION. USE PRODUCT SPECIFIED IF ARCHITECT DOES NOT ISSUE A DECISION ON USE OF A PROPOSED SUBSTITUTION WITHIN TIME ALLOCATED.

B. COMPATIBILITY OF SUBSTITUTIONS: INVESTIGATE AND DOCUMENT COMPATIBILITY OF PROPOSED SUBSTITUTION WITH RELATED PRODUCTS AND MATERIALS. ENGAGE QUALIFIED TESTING AGENCY TO PERFORM COMPATIBILITY TESTS RECOMMENDED BY MANUFACTURERS.

C. COORDINATION: MODIFY OR ADJUST AFFECTED WORK AS NECESSARY TO INTEGRATE WORK OF THE APPROVED SUBSTITUTIONS.

D. SUBSTITUTIONS FOR CAUSE: SUBMIT REQUESTS FOR SUBSTITUTION IMMEDIATELY UPON DISCOVERY OF NEED FOR CHANGE, BUT NOT LATER THAN 15 DAYS PRIOR TO TIME REQUIRED FOR PREPARATION AND REVIEW OF RELATED SUBMITTALS.
1. CONDITIONS: ARCHITECT WILL CONSIDER CONTRACTOR'S REQUEST FOR SUBSTITUTION WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, ARCHITECT WILL RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:
   a. REQUESTED SUBSTITUTION IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE INDICATED RESULTS.
   b. SUBSTITUTION REQUEST IS FULLY DOCUMENTED AND PROPERLY SUBMITTED.
   c. REQUESTED SUBSTITUTION WILL NOT ADVERSELY AFFECT CONTRACTOR'S CONSTRUCTION SCHEDULE.
   d. REQUESTED SUBSTITUTION HAS RECEIVED NECESSARY APPROVALS OF AUTHORITIES HAVING JURISDICTION.
   e. REQUESTED SUBSTITUTION IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
   f. REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK.
   g. REQUESTED SUBSTITUTION PROVIDES SPECIFIED WARRANTY.
   h. IF REQUESTED SUBSTITUTION INVOLVES MORE THAN ONE CONTRACTOR, REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK, IS UNIFORM AND CONSISTENT, IS COMPATIBLE WITH OTHER PRODUCTS, AND IS ACCEPTABLE TO ALL CONTRACTORS INVOLVED.

E. SUBSTITUTIONS FOR CONVENIENCE: ARCHITECT WILL CONSIDER REQUESTS FOR SUBSTITUTION IF RECEIVED WITHIN 60 DAYS AFTER COMMENCEMENT OF THE WORK. REQUESTS RECEIVED AFTER THAT TIME MAY BE CONSIDERED OR REJECTED AT DISCRETION OF ARCHITECT.
1. CONDITIONS: ARCHITECT WILL CONSIDER CONTRACTOR'S REQUEST FOR SUBSTITUTION WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, ARCHITECT WILL RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:
   a. REQUESTED SUBSTITUTION OFFERS OWNER A SUBSTANTIAL ADVANTAGE IN COST, TIME, ENERGY CONSERVATION, OR OTHER CONSIDERATIONS, AFTER DEDUCTING ADDITIONAL RESPONSIBILITIES OWNER MUST ASSUME. OWNER'S ADDITIONAL RESPONSIBILITIES MAY INCLUDE COMPENSATION TO ARCHITECT FOR REDESIGN AND EVALUATION SERVICES, INCREASED COST OF OTHER CONSTRUCTION BY OWNER, AND SIMILAR CONSIDERATIONS.
   b. REQUESTED SUBSTITUTION DOES NOT REQUIRE EXTENSIVE REVISIONS TO THE CONTRACT DOCUMENTS.
   c. REQUESTED SUBSTITUTION IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE INDICATED RESULTS.
   d. SUBSTITUTION REQUEST IS FULLY DOCUMENTED AND PROPERLY SUBMITTED.
   e. REQUESTED SUBSTITUTION WILL NOT ADVERSELY AFFECT CONTRACTOR'S CONSTRUCTION SCHEDULE.
   f. REQUESTED SUBSTITUTION HAS RECEIVED NECESSARY APPROVALS OF AUTHORITIES HAVING JURISDICTION.
   g. REQUESTED SUBSTITUTION IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
   h. REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK.
   i. REQUESTED SUBSTITUTION PROVIDES SPECIFIED WARRANTY.
   j. IF REQUESTED SUBSTITUTION INVOLVES MORE THAN ONE CONTRACTOR, REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK, IS UNIFORM AND CONSISTENT, IS COMPATIBLE WITH OTHER PRODUCTS, AND IS ACCEPTABLE TO ALL CONTRACTORS INVOLVED.
2. THE ARCHITECT HAS THE RIGHT TO REJECT A SUBSTITUTION FOR CONVENIENCE EVEN IF ALL OF THE ABOVE REQUIREMENTS ARE MET. THE CONTRACTOR MAY NOT DISPUTE THE ARCHITECT'S FINAL DECISION.

1.6 EXECUTION

A. CUTTING AND PATCHING: COMPLY WITH REQUIREMENTS FOR AND LIMITATIONS ON CUTTING AND PATCHING OF CONSTRUCTION ELEMENTS.
1. STRUCTURAL ELEMENTS: WHEN CUTTING AND PATCHING STRUCTURAL ELEMENTS, NOTIFY ARCHITECT OF LOCATIONS AND DETAILS OF CUTTING AND AWAIT DIRECTIONS FROM THE ARCHITECT BEFORE PROCEEDING. SHORE, BRACE, AND SUPPORT STRUCTURAL ELEMENT DURING CUTTING AND PATCHING. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR INCREASE DEFLECTION
2. OPERATIONAL ELEMENTS: DO NOT CUT AND PATCH OPERATING ELEMENTS AND RELATED COMPONENTS IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.
3. OTHER CONSTRUCTION ELEMENTS: DO NOT CUT AND PATCH OTHER CONSTRUCTION ELEMENTS OR COMPONENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY, THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED, OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.
4. VISUAL ELEMENTS: DO NOT CUT AND PATCH CONSTRUCTION IN A MANNER THAT RESULTS IN VISUAL EVIDENCE OF CUTTING AND PATCHING. DO NOT CUT AND PATCH EXPOSED CONSTRUCTION IN A MANNER THAT WOULD, IN ARCHITECT'S OPINION, REDUCE THE BUILDING'S AESTHETIC QUALITIES. REMOVE AND REPLACE CONSTRUCTION THAT HAS BEEN CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER.

B. MANUFACTURER'S INSTALLATION INSTRUCTIONS: OBTAIN AND MAINTAIN ON-SITE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION OF PRODUCTS AND EQUIPMENT.

C. IN-PLACE MATERIALS: USE MATERIALS FOR PATCHING IDENTICAL TO IN-PLACE MATERIALS. FOR EXPOSED SURFACES, USE MATERIALS THAT VISUALLY MATCH IN-PLACE ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE. IF IDENTICAL MATERIALS ARE UNAVAILABLE OR CANNOT BE USED, USE MATERIALS THAT, WHEN INSTALLED, WILL PROVIDE A MATCH ACCEPTABLE TO THE ARCHITECT FOR THE VISUAL AND FUNCTIONAL PERFORMANCE OF IN-PLACE MATERIALS.

D. EXISTING CONDITIONS: THE EXISTENCE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING SITEWORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MECHANICAL AND ELECTRICAL SYSTEMS, AND OTHER CONSTRUCTION AFFECTING THE WORK.

E. EXAMINATION AND ACCEPTANCE OF CONDITIONS: BEFORE PROCEEDING WITH EACH COMPONENT OF THE WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE.

F. EXISTING UTILITY INFORMATION: FURNISH INFORMATION TO LOCAL UTILITY AND OWNER REP THAT IS NECESSARY TO ADJUST, MOVE, OR RELOCATE EXISTING UTILITY STRUCTURES, UTILITY POLES, LINES, SERVICES, OR OTHER UTILITY APPURTENANCES LOCATED IN OR AFFECTED BY CONSTRUCTION. COORDINATE WITH AUTHORITIES HAVING JURISDICTION.

G. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.

H. SPACE REQUIREMENTS: VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIAGRAMMATICALLY ON DRAWINGS.

I. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS: IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS CAUSED BY DIFFERING FIELD CONDITIONS OUTSIDE THE CONTROL OF THE CONTRACTOR, SUBMIT A REQUEST FOR INFORMATION TO ARCHITECT ACCORDING TO REQUIREMENTS IN "PROJECT MANAGEMENT AND COORDINATION" ARTICLE.

J. INSTALLATION: LOCATE THE WORK AND COMPONENTS OF THE WORK ACCURATELY, IN CORRECT ALIGNMENT AND ELEVATION, AS INDICATED.
1. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING PRODUCTS IN APPLICATIONS INDICATED.
2. INSTALL PRODUCTS AT THE TIME AND UNDER CONDITIONS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. MAINTAIN CONDITIONS REQUIRED FOR PRODUCT PERFORMANCE UNTIL SUBSTANTIAL COMPLETION.
3. CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL CONDITIONS OF OCCUPANCY.
4. ATTACHMENT: PROVIDE BLOCKING AND ATTACHMENT PLATES AND ANCHORS AND FASTENERS OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED FOR LOAD CONDITIONS.
5. JOINTS: MAKE JOINTS OF UNIFORM WIDTH. WHERE JOINT LOCATIONS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE JOINTS FOR THE BEST VISUAL EFFECT. FIT EXPOSED CONNECTIONS TOGETHER TO FORM HAIRLINE JOINTS.
6. HAZARDOUS MATERIALS: USE PRODUCTS, CLEANERS, AND INSTALLATION MATERIALS THAT ARE NOT CONSIDERED HAZARDOUS.

K. CUTTING AND PATCHING: EMPLOY SKILLED WORKERS TO PERFORM CUTTING AND PATCHING. PROCEED WITH CUTTING AND PATCHING AT THE EARLIEST FEASIBLE TIME, AND COMPLETE WITHOUT DELAY. CUT IN-PLACE CONSTRUCTION TO PROVIDE FOR INSTALLATION OF OTHER COMPONENTS OR PERFORMANCE OF OTHER CONSTRUCTION, AND SUBSEQUENTLY PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.
1. TEMPORARY SUPPORT: PROVIDE TEMPORARY SUPPORT OF WORK TO BE CUT.
2. PROTECTION: PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PROVIDE PROTECTION FROM ADVERSE WEATHER CONDITIONS FOR PORTIONS OF PROJECT THAT MIGHT BE EXPOSED DURING CUTTING AND PATCHING OPERATIONS.
3. ADJACENT OCCUPIED AREAS: WHERE INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE TO ADJOINING AREAS IS UNAVOIDABLE, COORDINATE CUTTING AND PATCHING IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 01 SECTION "SUMMARY."
4. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: WHERE EXISTING SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BYPASS SUCH SERVICES/SYSTEMS BEFORE CUTTING TO PREVENT INTERRUPTION TO OCCUPIED AREAS.

L. PROGRESS CLEANING: CLEAN PROJECT SITE AND WORK AREAS DAILY, INCLUDING COMMON AREAS. ENFORCE REQUIREMENTS STRICTLY. DISPOSE OF MATERIALS LAWFULLY. MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS.

M. WASTE DISPOSAL: DO NOT BURY OR BURN WASTE MATERIALS ON-SITE. DO NOT WASH WASTE MATERIALS DOWN SEWERS OR INTO WATERWAYS.

N. STARTING AND ADJUSTING: START EQUIPMENT AND OPERATING COMPONENTS TO CONFIRM PROPER OPERATION. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST. ADJUST EQUIPMENT FOR PROPER OPERATION. ADJUST OPERATING COMPONENTS FOR PROPER OPERATION WITHOUT BINDING. TEST EACH PIECE OF EQUIPMENT TO VERIFY PROPER OPERATION. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

O. REPAIR OR REMOVE AND REPLACE DEFECTIVE CONSTRUCTION. RESTORE DAMAGED SUBSTRATES AND FINISHES. RESTORE PERMANENT FACILITIES USED DURING CONSTRUCTION TO THEIR SPECIFIED CONDITION.

1.7 CLOSEOUT PROCEDURES

A. SUBSTANTIAL COMPLETION PROCEDURES
1. CONTRACTOR'S LIST OF INCOMPLETE ITEMS: PREPARE AND SUBMIT A LIST OF ITEMS TO BE COMPLETED AND CORRECTED (CONTRACTOR'S PUNCH LIST), INDICATING THE VALUE OF EACH ITEM ON THE LIST AND REASONS WHY THE WORK IS INCOMPLETE.
2. INSPECTION: SUBMIT A WRITTEN REQUEST FOR INSPECTION TO DETERMINE SUBSTANTIAL COMPLETION A MINIMUM OF 10 DAYS PRIOR TO DATE THE WORK WILL BE COMPLETED AND READY FOR FINAL INSPECTION AND TESTS. ON RECEIPT OF REQUEST, ARCHITECT WILL EITHER PROCEED WITH INSPECTION OR NOTIFY CONTRACTOR OF UNFULFILLED REQUIREMENTS. ARCHITECT WILL PREPARE A STATEMENT OF SUBSTANTIAL COMPLETION AFTER INSPECTION OR WILL NOTIFY CONTRACTOR OF ITEMS, EITHER ON CONTRACTOR'S LIST OR ADDITIONAL ITEMS IDENTIFIED BY ARCHITECT, THAT MUST BE COMPLETED OR CORRECTED BEFORE STATEMENT WILL BE ISSUED.
   a. REINSPECTION: REQUEST REINSPECTION WHEN THE WORK IDENTIFIED IN PREVIOUS INSPECTIONS AS INCOMPLETE IS COMPLETED OR CORRECTED.
   b. RESULTS OF COMPLETED INSPECTION WILL FORM THE BASIS OF REQUIREMENTS FOR FINAL COMPLETION.

B. FINAL COMPLETION PROCEDURES
1. PRELIMINARY PROCEDURES: BEFORE REQUESTING FINAL INSPECTION FOR DETERMINING FINAL COMPLETION, COMPLETE THE FOLLOWING:
   a. SUBMIT A FINAL APPLICATION FOR PAYMENT TO OWNER REP
   b. CERTIFIED LIST OF INCOMPLETE ITEMS: SUBMIT CERTIFIED COPY OF ARCHITECT'S SUBSTANTIAL COMPLETION INSPECTION LIST OF ITEMS TO BE COMPLETED OR CORRECTED (PUNCH LIST), ENDORSED AND DATED BY ARCHITECT. CERTIFIED COPY OF THE LIST SHALL STATE THAT EACH ITEM HAS BEEN COMPLETED OR OTHERWISE RESOLVED FOR ACCEPTANCE.
   c. CERTIFICATE OF INSURANCE: SUBMIT EVIDENCE OF FINAL, CONTINUING INSURANCE COVERAGE COMPLYING WITH INSURANCE REQUIREMENTS.
   d. SUBMIT PEST-CONTROL FINAL INSPECTION REPORT AND WARRANTY.
   e. INSTRUCT OWNER'S PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF PRODUCTS, EQUIPMENT, AND SYSTEMS.
2. SUBMITTAL OF PROJECT WARRANTIES: SUBMIT WRITTEN WARRANTIES ON REQUEST OF ARCHITECT FOR DESIGNATED PORTIONS OF THE WORK WHERE COMMENCEMENT OF WARRANTIES OTHER THAN DATE OF SUBSTANTIAL COMPLETION IS INDICATED, OR WHEN DELAY IN SUBMITTAL OF WARRANTIES MIGHT LIMIT OWNER'S RIGHTS UNDER WARRANTY. ORGANIZE WARRANTY DOCUMENTS INTO AN ORDERLY SEQUENCE BASED ON THE TABLE OF CONTENTS OF THE PROJECT MANUAL.

C. CLEANING AGENTS: USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES.

D. FINAL CLEANING: PERFORM FINAL CLEANING. CONDUCT CLEANING AND WASTE-REMOVAL OPERATIONS TO COMPLY WITH LOCAL LAWS AND ORDINANCES AND FEDERAL AND LOCAL ENVIRONMENTAL AND ANTIPOLLUTION REGULATIONS.
1. EMPLOY EXPERIENCED WORKERS OR PROFESSIONAL CLEANERS FOR FINAL CLEANING. CLEAN EACH SURFACE OR UNIT TO CONDITION EXPECTED IN AN AVERAGE COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

F. PEST CONTROL: ENGAGE AN EXPERIENCED, LICENSED EXTERMINATOR TO MAKE A FINAL INSPECTION AND RID PROJECT OF RODENTS, INSECTS, AND OTHER PESTS. PREPARE A REPORT.

G. REPAIR OF THE WORK: REPAIR OR REMOVE AND REPLACE DEFECTIVE CONSTRUCTION. REPAIRING INCLUDES REPLACING DEFECTIVE PARTS, REFINISHING DAMAGED SURFACES, TOUCHING UP WITH MATCHING MATERIALS, AND PROPERLY ADJUSTING OPERATING EQUIPMENT. WHERE DAMAGED OR WORN ITEMS CANNOT BE REPAIRED OR RESTORED, PROVIDE REPLACEMENTS. REMOVE AND REPLACE OPERATING COMPONENTS THAT CANNOT BE REPAIRED. RESTORE DAMAGED CONSTRUCTION AND PERMANENT FACILITIES USED DURING CONSTRUCTION TO SPECIFIED CONDITION.

1.8 OPERATION AND MAINTENANCE DATA

A. OPERATION MANUALS: IN ADDITION TO REQUIREMENTS IN THIS SECTION, INCLUDE OPERATION DATA REQUIRED IN INDIVIDUAL SPECIFICATION SECTIONS.

B. PRODUCT MAINTENANCE MANUALS: ORGANIZE MANUAL INTO A SEPARATE SECTION FOR EACH PRODUCT, MATERIAL, AND FINISH. INCLUDE SOURCE INFORMATION, PRODUCT INFORMATION, MAINTENANCE PROCEDURES, REPAIR MATERIALS AND SOURCES, AND WARRANTIES AND BONDS.

C. SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS: FOR EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM, INCLUDE SOURCE INFORMATION, MANUFACTURERS' MAINTENANCE DOCUMENTATION, MAINTENANCE PROCEDURES, MAINTENANCE AND SERVICE SCHEDULES, SPARE PARTS LIST AND SOURCE INFORMATION, MAINTENANCE SERVICE CONTRACTS, AND WARRANTY AND BOND INFORMATION.

END OF SECTION 01 00 00

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

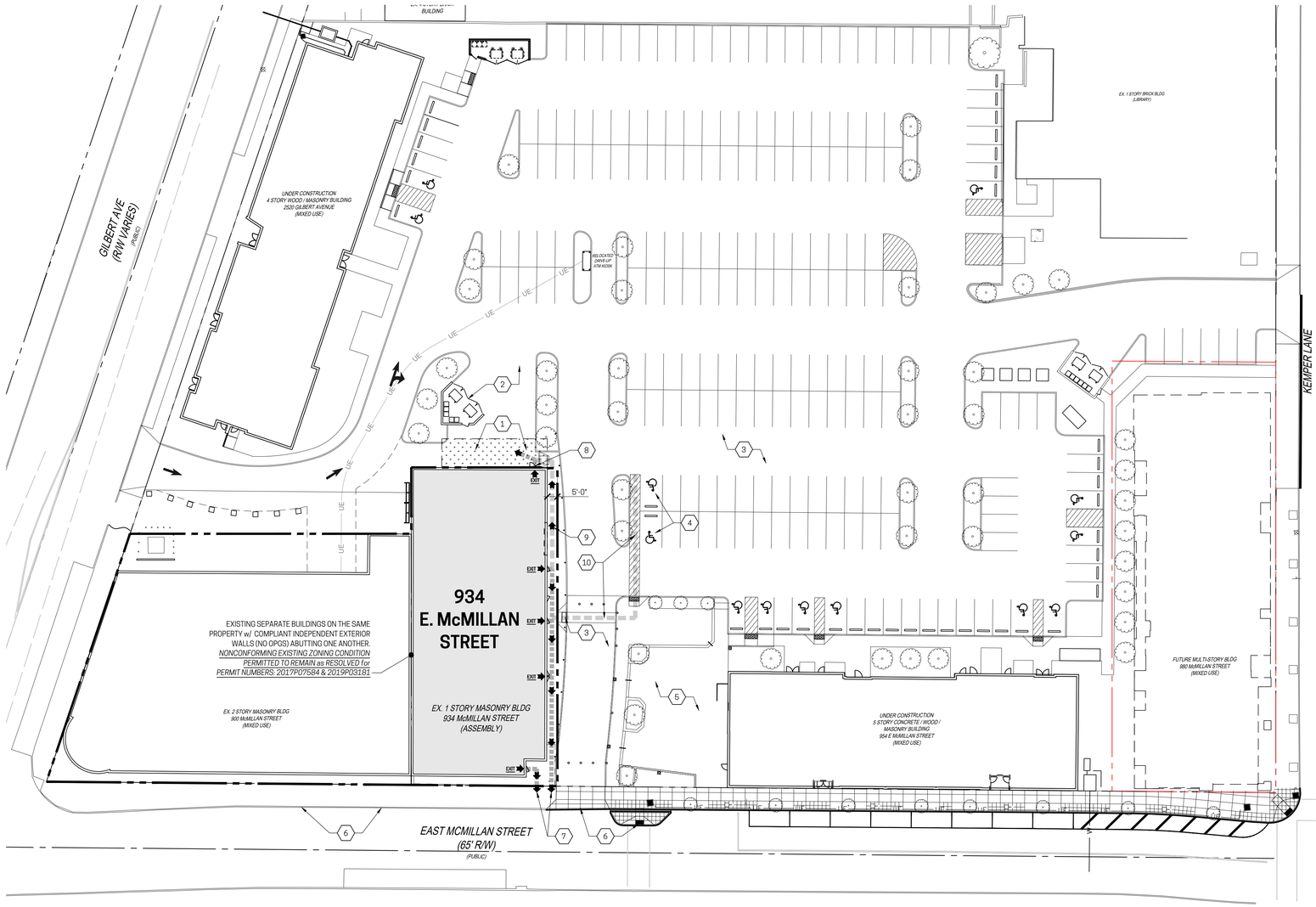
NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

STATE OF OHIO REGISTERED ARCHITECT
GRAHAM MICHAEL KALBLI 13499

Drawing Title
PROJECT REQUIREMENTS

Document No.
G001



KEY NOTES

1. EXISTING INGRESS/EGRESS EASEMENT *(D.B. 4415 PG. 352)*
2. SHARED DUMPSTERS AND SERVICE COURT / LOADING ZONE - UNDER CONSTRUCTION as part of *PERMIT #2022P06533*
3. SHARED OFF-STREET PARKING AND SITE IMPROVEMENTS- UNDER CONSTRUCTION as part of *PERMIT #2022P06533* (PARKING SHARED AMONGST ALL BUILDINGS, EXISTING & FUTURE) REPRESENTED ON THIS PAGE)
4. ACCESSIBLE SPACES CLOSEST to 934 E McMILLAN w/ an ACCESSIBLE ROUTE.
5. COMMUNITY PLAZA SPACE - UNDER CONSTRUCTION as part of *PERMIT #2022P06533*
6. EXISTING CURB CUT TO REMAIN and STREEETSCAPE IMPROVEMENTS UNDER SEPARATE PERMIT (SHOWN FOR REFERENCE)
7. ACCESSIBLE ROUTE / EGRESS PATH TO PUBLIC RIGHT-OF-WAY
8. EXISTING EXIT LOCATION (UTILIZING EXISTING EASEMENT) TO REMAIN
9. SECONDARY EGRESS ROUTE & ACCESSIBLE ROUTE TO THE COMMON LOADING ZONE AND REFUSE ENCLOSURE
10. ACCESSIBLE ROUTE TO/FROM ACCESSIBLE PARKING

PARKING CALCULATIONS

- REQUIREMENT: 1 SPACE per 300 SF per CITY of CINCINNATI FORM BASED CODE (CFBC) *'TABLE 1703-5.50.A'*
- GROSS BUILDING AREA = 10,132 GSF
- SPACES REQUIRED = 10,132 / 300 = 33.77 = 34* SPACES (2 BEING ACCESSIBLE) **Rounded up per CFBC*
- OFF-STREET SHARED PARKING DESIGN PROVISIONS = 215 SPACES (13 BEING ACCESSIBLE)

A1 — **ARCHITECTURAL SITE PLAN**

1" = 30'-0"

FOR REFERENCE ONLY - THERE IS NO SITE/CIVIL SCOPE of WORK on THIS PROJECT

0' 10' 20' 30'

N

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

FLOOR PLAN / ELEVATION KEY NOTE

30" BC — GENERAL TEXT NOTE

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE # 13499
EXPIRATION DATE 12/31/23

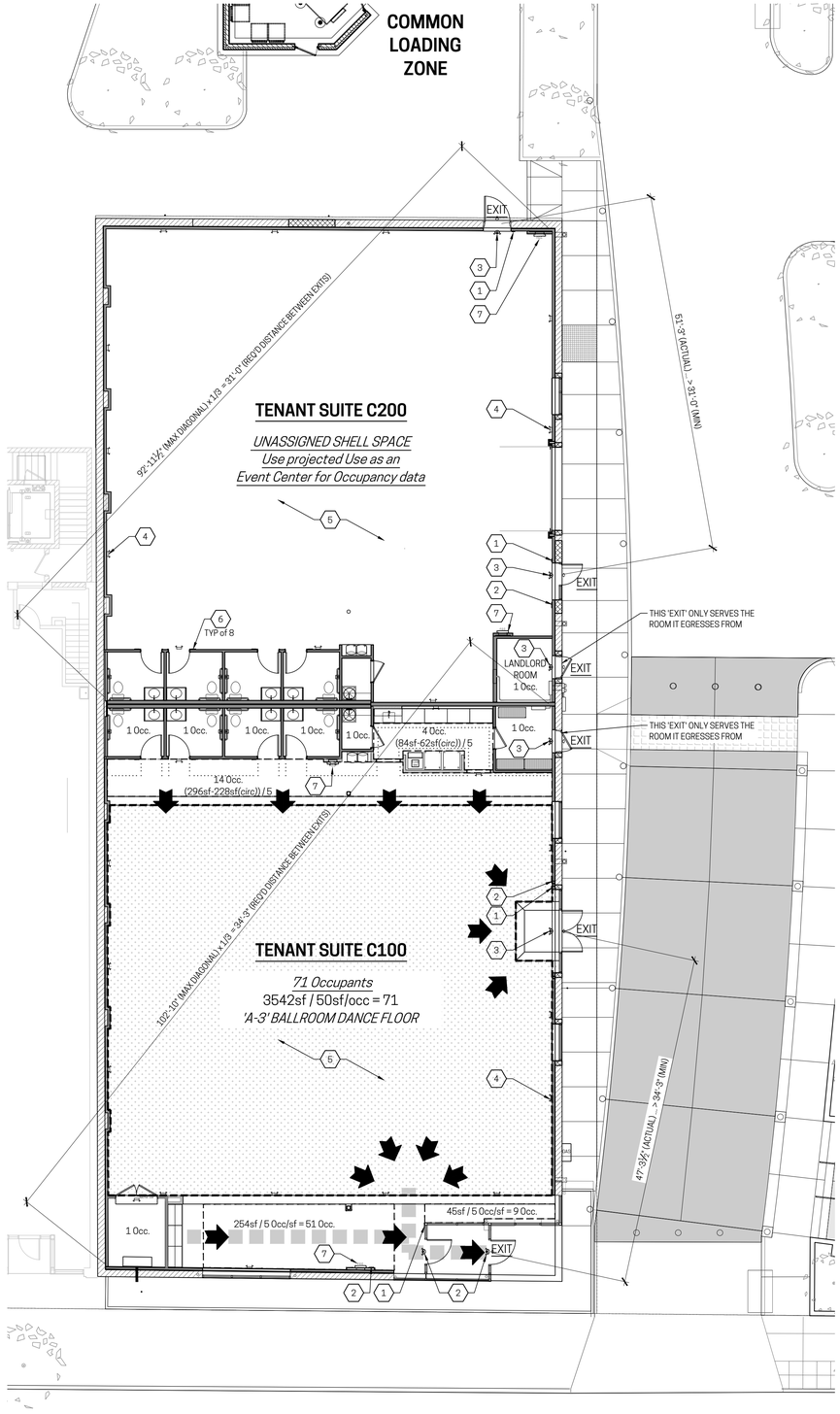
STATE OF OHIO — GRAHAM MICHAEL KALBLI — 13499 — REGISTERED ARCHITECT

Drawing Title

ARCHITECTURAL SITE PLAN

Document No.

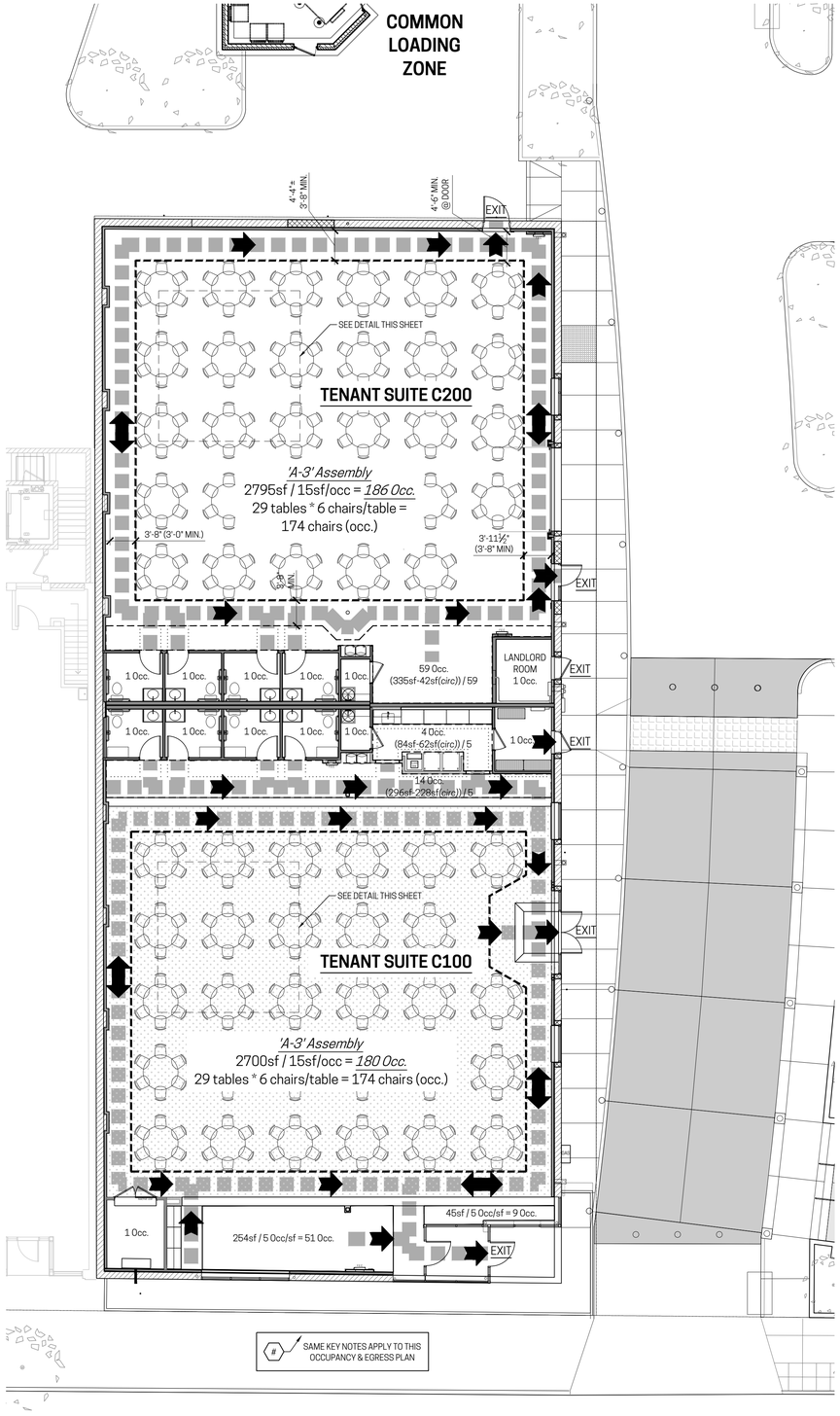
G100



A1 OCCUPANCY & EGRESS PLAN

1/8" = 1'-0"

CORE & SHELL



A6 OCCUPANCY & EGRESS PLAN

1/8" = 1'-0"

ASSEMBLY - EVENT CENTER (MAX OCCUPANCY DATA)

KEY NOTES

1. "EXIT" PLACARD ADJACENT TO THE 'EXIT DISCHARGE' in COMPLIANCE w/ OBC 1013.4 .
2. "MAXIMUM OCCUPANCY FOR THIS SPACE" IN A CONSPICUOS LOCATION NEAR MAIN EXITS FROM THE MAIN ROOM in COMPLIANCE w/ OBC 1004.3 (IBC 1004.9)
3. EXIT / EMERGENCY LIGHTING AT EXIT DISCHARGE LOCATIONS - SEE ELECTRICAL DOCS FOR ADDITIONAL DATA
4. PERIMETER WALL MOUNTED EMERGENCY LIGHTING - SEE ELECTRICAL DOCS FOR ADDITIONAL DATA
5. SEE ELECTRICAL DOCS FOR ADDITIONAL EMERGENCY LIGHTING PROVISIONS FOR CENTRAL AREAS
6. ACCESSIBLE UNISEX TOILET ROOM SIGNAGE PLACARDS ADJACENT TO EACH SINGLE OCCUPANT TOILET ROOM - SEE SHEET A601 FOR ADDITIONAL INFORMATION
7. FIRE EXTINGUISHER IN LISTED SEMI-RECESSED FIRE EXTINGUISHER CABINET. PROVIDE AT LOCATIONS INDICATED UNLESS DIRECTED OTHERWISE BY LOCAL FIRE AUTHORITY HAVING JURISDICTION. PROVIDE 'MP10' EXTINGUISHER IN A *LARSEN'S* 'FP-2409-R4' CABINET (STEEL, WHITE, VERTICAL DUO w/ VERTICAL RED DIE CUT LETTERING, 3 ½" TRIM PROJECTION)

DESIGN OCCUPANT LOAD DATA:

SUITE C100 ... (DANCE STUDIO)

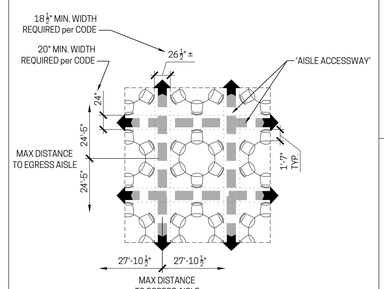
60	LOBBY *(Standing at 1:5)*
3	STORAGE/UTILITY *(at 1:300)*
171	DANCE FLOOR *(Instructional Exercise at 1:50)*
4	TOILET ROOMS *(Single Occupant)*
4	BREAK *(Standing at 1:5 less circulation space)*
14	ANTE SPACE in front of TOILETS & BREAK *(Standing at 1:5 less circulation space)*
256	SUM TOTAL OCCUPANTS

SUITE C100 ... (EVENT CENTER ... *Max Occupancy)*

60	LOBBY *(Standing at 1:5)*
3	STORAGE/UTILITY *(at 1:300)*
180	ASSEMBLY SPACE *(Loose Table & Chairs at 1:15)*
4	TOILET ROOMS *(Single Occupant)*
4	BREAK *(Standing at 1:5 less circulation space)*
14	ANTE SPACE in front of TOILETS & BREAK *(Standing at 1:5 less circulation space)*
265	SUM TOTAL OCCUPANTS

SUITE C200 ... (EVENT CENTER ... *Max Occupancy)*

1	UTILITY *(at 1:300)*
186	ASSEMBLY SPACE *(Loose Table & Chairs at 1:15)*
59	ANTE SPACE *(Standing at 1:5)*
4	TOILET ROOMS *(Single Occupant)*
250	SUM TOTAL OCCUPANTS



AISLE ACCESSWAYS (OBC 1029.12.1.1):
12" MIN WIDTH FOR UP TO 12'-0". INCREASE WIDTH ½" FOR EACH ADDITIONAL FOOT OF TRAVEL BEYOND 12'-0"

A1 DETAIL

1/8" = 1'-0"

AISLE ACCESSWAYS

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

- FLOOR PLAN / ELEVATION KEY NOTE
- 30" BC — GENERAL TEXT NOTE
- EGRESS PATHWAY (AISLES, ACCESSWAYS, etc.)
- DIRECTION OF EGRESS TRAVEL
- EXIT — 'EXIT' or 'EXIT DISCHARGE' LOCATIONS
- 'EXIT' or DIRECTIONAL 'EXIT' SIGNS
- 'EXIT / EMERGENCY' SIGN/LIGHT
- 'EX / EM' SIGN/LIGHT w/ REMOTE HEAD
- EMERGENCY LIGHTING

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

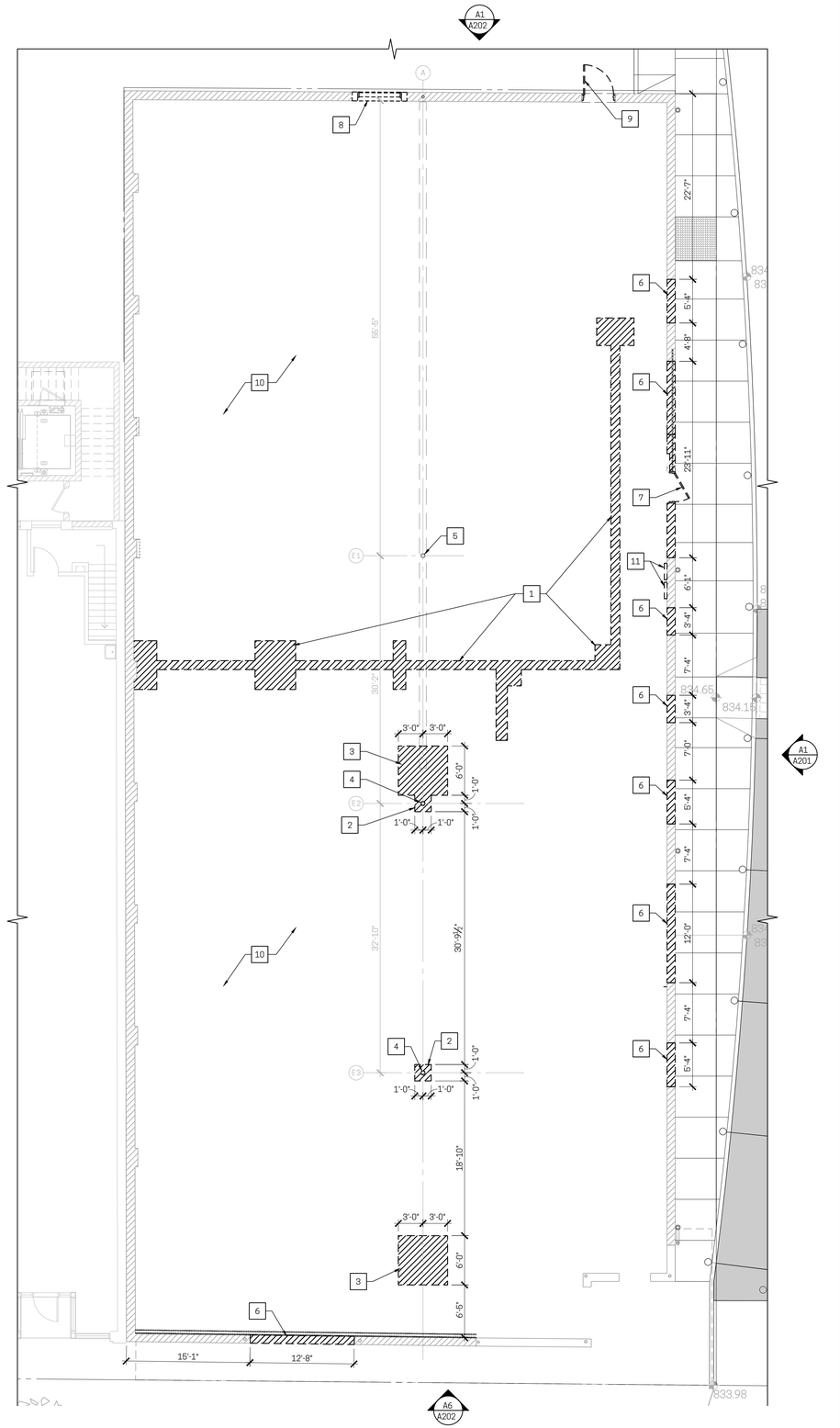
GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO REGISTERED ARCHITECT
GRAHAM KALBLI 13499

Drawing Title

OCCUPANCY & EGRESS PLAN

Document No.

G101



A6 SELECTIVE DEMOLITION - FLOOR PLAN

1/8" = 1'-0"

KEY NOTES - SELECTIVE DEMOLITION PLAN

1. CUT AND REMOVE SECTION OF EXISTING CONCRETE SLAB AS REQUIRED FOR THE REMOVAL OF THE EXISTING PLUMBING AND THE NEW PLUMBING WORK -CONFIRM LOCATION AND ROUTE OF NEW SANITARY AND PLUMBING LINES WITH THE PLUMBING DRAWINGS
2. CUT AND REMOVE SECTION OF EXISTING CONCRETE SLAB AS REQUIRED FOR THE REMOVAL OF THE EXISTING STEEL COLUMN
3. CUT AND REMOVE SECTION OF EXISTING CONCRETE SLAB AS REQUIRED FOR THE NEW FOOTING AND COLUMN LOCATION
4. RELOCATE EXISTING STEEL COLUMN
5. EXISTING STEEL COLUMN TO REMAIN
6. REMOVE EXISTING SECTION OF EXTERIOR MASONRY WALL TO EXTENTS INDICATED -SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DATA
7. REMOVE EXISTING DOOR
8. REMOVE EXISTING EXHAUST DUCT AND ASSOCIATED COMPONENTS
9. REMOVE EXISTING DOOR -EXISTING FRAME TO REMAIN
10. REMOVE EXISTING LIGHTING THROUGHOUT
11. REMOVE EXISTING ELECTRICAL METERS AND ASSOCIATED CONDUITS, PANELS, DISCONNECTS, ETC.

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

- A — PARTITION TAG
- SELECTIVE DEMO KEY NOTE
- FLOOR PLAN / ELEVATION KEY NOTE
- RCP / ACCESSIBILITY CLEARANCE KEY NOTE
- KITCHEN — ROOM NAME / NUMBER TAG
- 105 — ROOM NAME / NUMBER TAG
- B1 B1 C1 B1c — ROOM FINISH DATA
- 107 — DOOR ID TAG *or* CEILING HEIGHT TAG
- 30" BC — GENERAL TEXT NOTE
- A8 / A110 — DETAIL REF TAG
- NEW PARTITION
- NEW UNDERCOUNTER PARTITION
- NEW BULKHEAD ABOVE
- EXISTING PARTITION
- EXISTING BRICK MASONRY WALL
- EXISTING CMU MASONRY WALL
- ELEVATION TAG
- INTERIOR ELEVATION TAG

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

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Drawing Title
SELECTIVE DEMO - FLOOR PLAN

Document No.
D101

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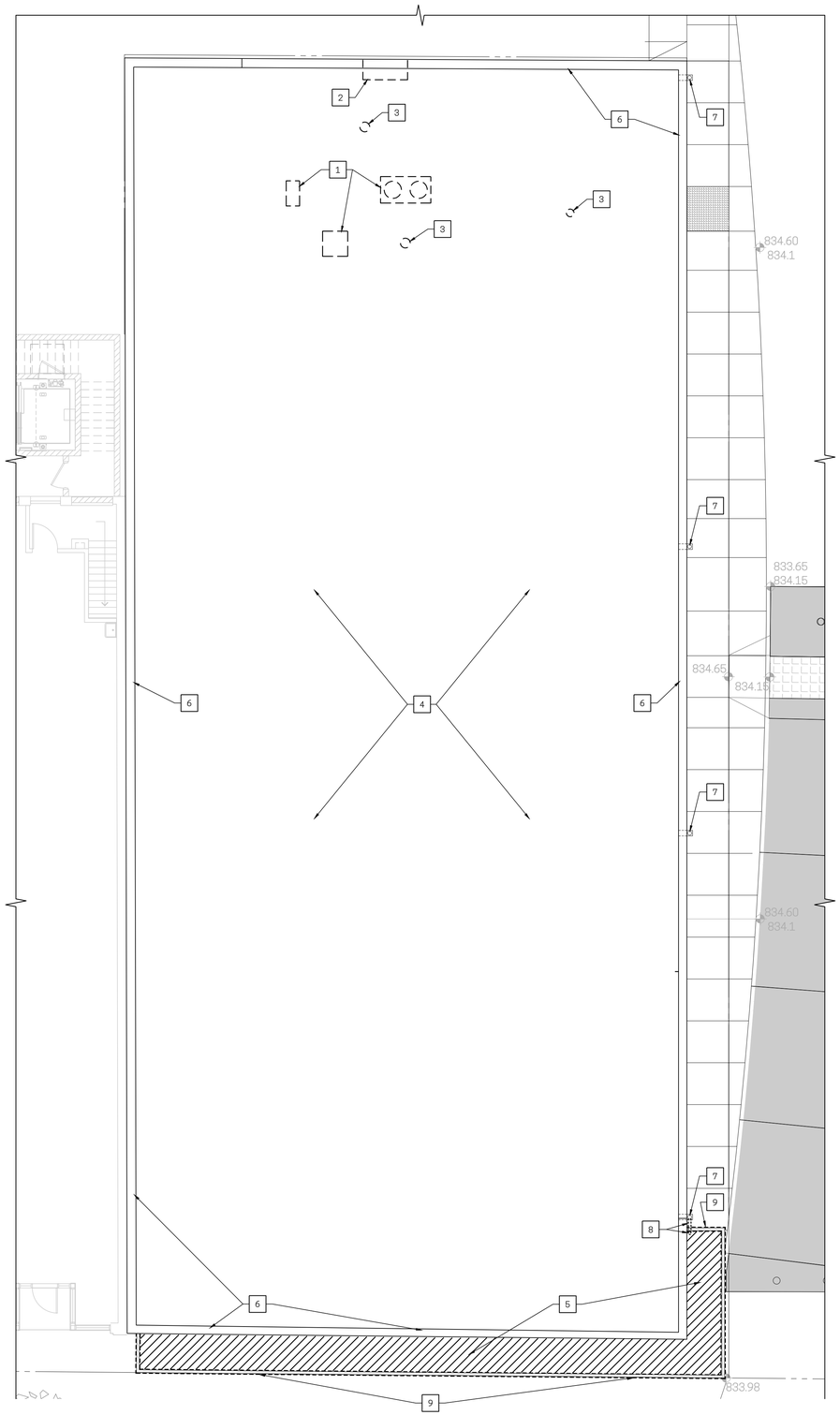

KEY NOTES - SELECTIVE DEMO ROOF PLAN

1. REMOVE EXISTING ROOF TOP UNITS, CONDENSING UNITS, ASSOCIATED WIRING, CONDUIT, DISCONNECT SWITCHES, ETC.
2. REMOVE EXISTING DUCTWORK
3. REMOVE EXISTING VENTS
4. EXISTING ROOFING TO REMAIN
5. REMOVE EXISTING ROOF DECK, MEMBRANE, AND FLASHING AT EXISTING CANOPY
6. EXISTING COPING TO REMAIN
7. EXISTING SCUPPERS, COLLECTOR BOXES, AND LEADERS TO REMAIN
8. REMOVE EXISTING CANOPY DOWNSPOUT
9. REMOVE EXISTING METAL FASCIA AND LINEAR METAL SOFFIT SIDING ON EXISTING CANOPY

A6 **SELECTIVE DEMOLITION - ROOF PLAN**

1/8" = 1'-0"

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

- A — PARTITION TAG
- - — SELECTIVE DEMO KEY NOTE
- - — FLOOR PLAN / ELEVATION KEY NOTE
- - — RCP / ACCESSIBILITY CLEARANCE KEY NOTE
- KITCHEN — ROOM NAME / NUMBER TAG
- 105 — ROOM NAME / NUMBER TAG
- B1B1C1B1c — ROOM FINISH DATA
- 107 — DOOR ID TAG *or* CEILING HEIGHT TAG
- 30" BC — GENERAL TEXT NOTE
- A6 / A110 — DETAIL REF TAG
- NEW PARTITION
- NEW UNDERCOUNTER PARTITION
- NEW BULKHEAD ABOVE
- EXISTING PARTITION
- EXISTING BRICK MASONRY WALL
- EXISTING CMU MASONRY WALL
- ELEVATION TAG
- INTERIOR ELEVATION TAG

No.	Issuances / Revisions / Submissions	Date
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LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO
GRAHAM MICHAEL KALBLI
13499
REGISTERED ARCHITECT

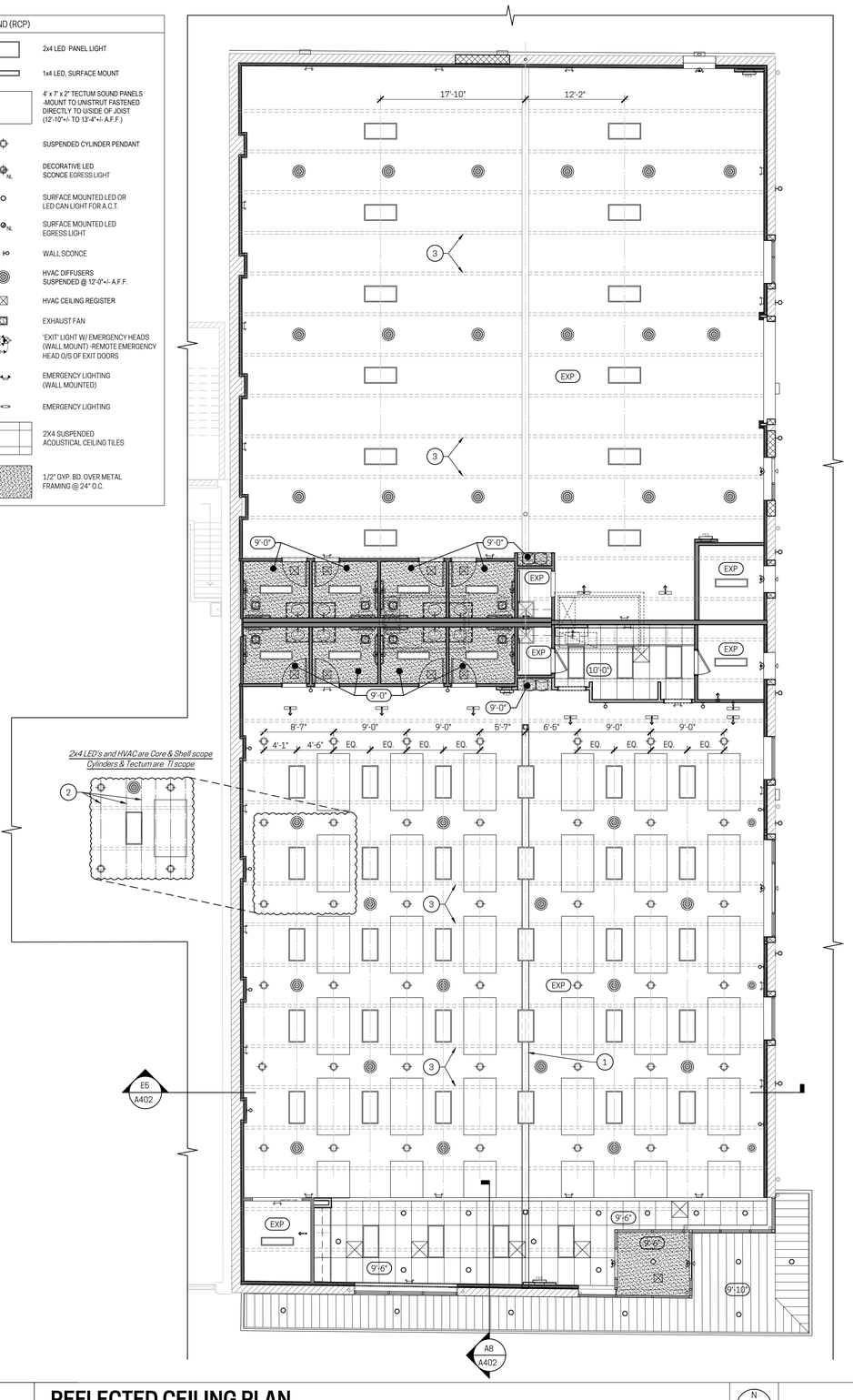
Drawing Title
SELECTIVE DEMO - ROOF PLAN

Document No.
D102

PLOTTED: Friday, September 1, 2023 5:14:48 PM

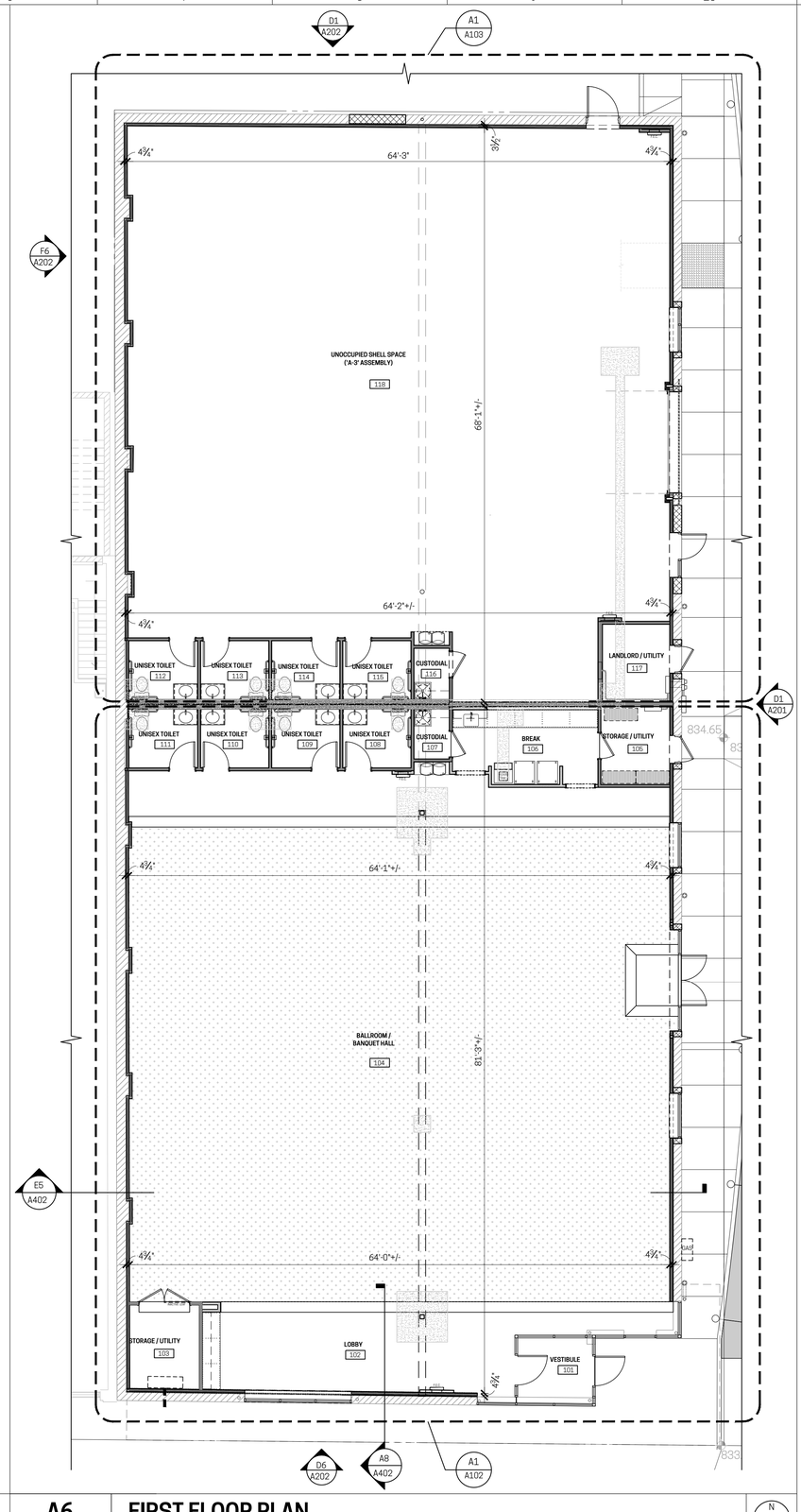
LEGEND (RCP)

- 2x4 LED PANEL LIGHT
- 1x4 LED, SURFACE MOUNT
- 4' x 7' x 2" TECTUM SOUND PANELS -MOUNT TO UNISTRUT FASTENED DIRECTLY TO USIDE OF JOIST (12'-10"+/- TO 13'-4"+/- A.F.F.)
- SUSPENDED CYLINDER PENDANT
- DECORATIVE LED SCONCE EGRESS LIGHT
- SURFACE MOUNTED LED OR LED CAN LIGHT FOR A.C.T.
- SURFACE MOUNTED LED EGRESS LIGHT
- WALL SCONCE
- HVAC DIFFUSERS SUSPENDED @ 12'-0"+/- A.F.F.
- HVAC CEILING REGISTER
- EXHAUST FAN
- "EXIT" LIGHT W/ EMERGENCY HEADS (WALL MOUNT) -REMOTE EMERGENCY HEAD O/S OF EXIT DOORS
- EMERGENCY LIGHTING (WALL MOUNTED)
- EMERGENCY LIGHTING
- 2X4 SUSPENDED ACOUSTICAL CEILING TILES
- 1/2" GYP. BD. OVER METAL FRAMING @ 24" O.C.



A1 REFLECTED CEILING PLAN

1/8" = 1'-0"



A6 FIRST FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

A. ALL NEW INTERIOR PARTITIONS SHALL BE 3 5/8" X 25 GA. METAL STUDS @ 16" O.C. W/ SOUND ATTENUATION BATTS AND 5/8" GYP. BD., EA. SIDE. PARTITIONS SHALL BE FULL HEIGHT TO UNDERSIDE OF THE EXISTING METAL DECK
B. PATCH AND REPAIR EXISTING CONCRETE SLAB AS NEEDED
C. REFERENCE SHEET A401 FOR ENLARGED TOILET ROOM PLANS AND ELEVATIONS, ACCESSORIES, AND ACCESSIBILITY DATA
D. SEE SHEET A102a FOR FINISH LEGEND and NOTES

REFLECTED CEILING PLAN KEY NOTES

1. MODIFIED GIRDER BEAM -SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
2. FASTEN TECTUM AND 2X4 LED PANEL LIGHTS TO UNISTRUT -FASTEN UNISTRUT DIRECTLY TO THE UNDERSIDE OF BAR JOIST
3. EXISTING BAR JOISTS -TYP.

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

- A — PARTITION TAG
- SELECTIVE DEMO KEY NOTE
- FLOOR PLAN / ELEVATION KEY NOTE
- RCP / ACCESSIBILITY CLEARANCE KEY NOTE
- KITCHEN — ROOM NAME / NUMBER TAG
- 105 — ROOM NAME / NUMBER TAG
- B1 B1C1 B1c — ROOM FINISH DATA
- 107 — DOOR ID TAG *or* CEILING HEIGHT TAG
- 30" BC — GENERAL TEXT NOTE
- A8 / A110 — DETAIL REF TAG
- NEW PARTITION
- NEW UNDERCOUNTER PARTITION
- NEW BULKHEAD ABOVE
- EXISTING PARTITION
- EXISTING BRICK MASONRY WALL
- EXISTING CMU MASONRY WALL
- ELEVATION TAG
- INTERIOR ELEVATION TAG

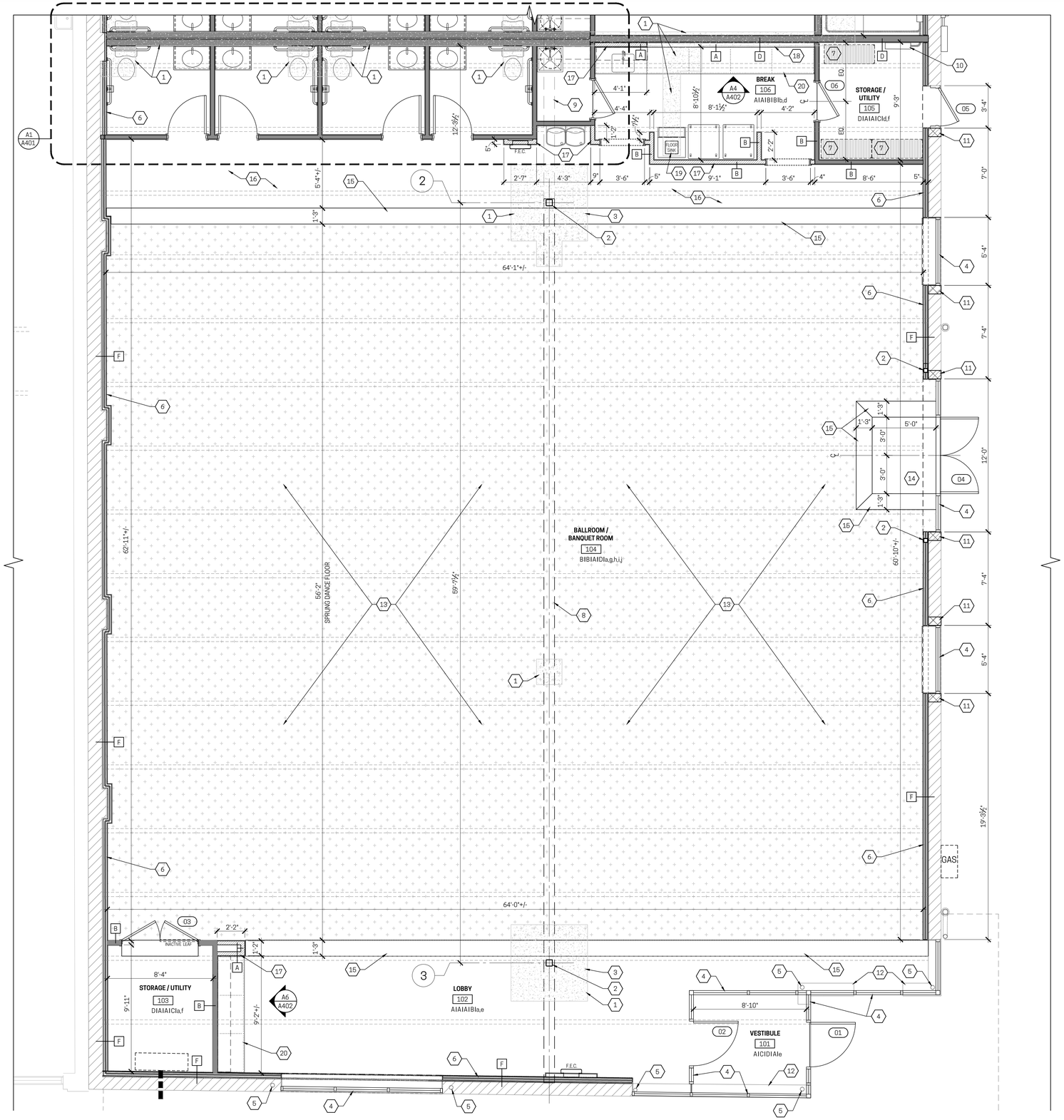
No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO
GRAHAM MICHAEL KALBLI
13499
REGISTERED ARCHITECT

Drawing Title
FLOOR & REFLECTED CEILING PLANS

Document No.
A101



GENERAL 'CORE AND SHELL' FINISH NOTES:

1. SUSPENDED CEILING SYSTEM DESIGN BASIS for "VANILLA BOX":
   - 2x4 'USG' CEILINGS "RADAR" ACOUSTICAL PANEL (CLIMAPLUS PERFORMANCE) Item #2410 (24"x48"x⅝", SQUARE EDGE, FLAT WHITE '050' FINISH, NON-DIRECTIONAL MINERAL BASE, ANTI-MOLD& MILDEW / SAG RESISTANT; USE with 'USG' "DONN DX" ACOUSTICAL SUSPENSION SYSTEM. AN EQUIVALENT SYSTEM FROM 'ARMSTRONG' IS ACCEPTABLE
2. Section 803.1.1 and Table 803.11 - INTERIOR WALL & CEILING FINISHES SHALL MEET THE FOLLOWING MIN. REQUIREMENTS:
   - CORRIDORS + EXIT ACCESS ENCLOSURES: CLASS C (B or M)
   - ROOMS AND ENCLOSED SPACES: CLASS C (A, B or M)
2. ALL INTERIOR FLOOR FINISHES (*i.e. THOSE CONTAINING FIBERS*) SHALL MEET THE FOLLOWING MIN. REQUIREMENTS: ALL AREAS (CLASS II + DOC FF-1 "PILL TEST")
3. NEW FLOORING SHALL EXTEND UNDER CABINETS & EQUIPMENT.
4. PROVIDE ACCESSIBLE MATERIAL TRANSITION STRIP or THRESHOLD WHERE SPECIFIED at DOORWAYS / OPENINGS WHERE ADJACENT ROOMS RECEIVE FLOOR FINISHES of DIFFERING HEIGHTS.
5. PAINT FINISHES:
   - WOOD - SATIN FINISH at DOORS
   - GWB DECORATIVE SOFFITS - SATIN FINISH (VERTICAL and HORIZ. SURFACES)
   - GWB WALLS
     - PREMIUM FLAT ENAMEL (LO-SHEEN) at WALLS (2-COAT ... PRIME + FINISH UNO)
     - EPOXY PAINT (SATIN or SEMI-GLOSS SHEEN) at TOILET ROOMS and OTHER "WET WALL" LOCATIONS NOT RECEIVING FRP PANELING

FINISH LEGEND

ROOM NUMBER — XXX
AIAIAIAIn
FLOOR FINISH
BASE
WALL FINISH
CEILING
REMARKS

FLOOR - 1ST LETTER
A - LVT (PLANK STYLE)
B - WOOD (SPRUNG DANCE FLOOR)
C - CARPET TILE
D - SEALED CONCRETE

WALL - 3RD LETTER
A - PAINT
B - EPOXY PAINT
C - FRP
D - EXISTING / NO APPLIED FINISH

BASE - 2ND LETTER
A - 6" RESILIENT
B - 6" WOOD
C - NO APPLIED BASE / EXISTING

CEILING - 4TH LETTER
A - PAINTED GWB
B - SUSPENDED CLG. SYSTEM
C - NONE
D - EXPOSED w/ TECTUM CLOUDS

REMARKS
a. PROVIDE MFR STD ACCESSIBLE TRANSITION STRIPS FOR SPRUNG WOOD FLOOR SYSTEM at OPEN PERIMETER & DOOR OPENINGS.
b. WATERPROOF SEALANT at TOP & BOTTOM of BASE (and FRP) and at I/S CORNERS at TOILET and SERVICE SINK AREAS
c. PROVIDE 8' FRP PANELS 4 FEET EA DIRECTION at SERVICE SINK
d. PROVIDE ACCESSIBLE TRANSITION STRIP BETWEEN LVT & SEALED CONCRETE
e. TENANT to PROVIDE ACCESSIBLE WALK-OFF MATS at ENTRANCE LOCATIONS
f. PROVIDE "HI-HIDE" PRIMER COAT ONLY
g. DIRECT MOUNT TECTUM CLOUD PANELS to B/ JOISTS USING UNISTRUT
h. DRY-FALL PAINT EXPOSED ROOF STRUCTURE ABOVE
i. PROVIDE DARK COLOR at PERIMETER WALLS MATCHING DRY-FALL COLOR FROM 12'-6" AFF to U/SIDE of DECK
j. PROVIDE LVT FLOORING ('A') BETWEEN SPRUNG WOOD FLOOR and TOILET / BREAK ROOMS

CORE AND SHELL KEY NOTES

1. PROVIDE NEW CONCRETE SLAB AT CUT/REMOVED SECTION OF EXISTING SLAB -PROVIDE 4,000 PSI, CONCRETE W/ SMOOTH TROWEL FINISH -MATCH THICKNESS OF EXISTING SLAB
2. NEW STEEL COLUMN -SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
3. COORDINATE CUT/REMOVED SECTION OF EXISTING SLAB WITH FOOTING PAD SIZE -SEE STRUCTURAL FOR ADDITIONAL INFORMATION
4. NEW STOREFRONT SYSTEM -SEE EXTERIOR ELEVATIONS AND SHEET A601 FOR TYPE AND SIZE
5. EXISTING STRUCTURAL COLUMN
6. OVER EXISTING EXTERIOR MASONRY WALL, PROVIDE NEW GYP. BD. OVER FURRING W/ INSULATION -REFER TO SHEET A501
7. SHELVING -BY LANDLORD
8. MODIFIED STEEL GIRDER BEAM ABOVE -SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
9. EXISTING GIRDER BEAM ABOVE
10. NEW ELECTRICAL PANEL -SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
11. 'TOOTH-IN' NEW MASONRY AS NEEDED AFTER REMOVAL/CUT FOR NEW OPENING
12. EXISTING HALF-HEIGHT WALL

TENANT IMPROVEMENT KEY NOTES

13. HATCHED AREA INDICATES "SPRUNG" WOOD DANCE FLOOR SYSTEM (1.5" TOTAL THICKNESS). PROVIDE MANUFACTURER'S STANDARD 1.5" ACCESSIBLE TRANSITIONS AT ALL OPEN SIDES AND DOORWAYS
14. PROVIDE LVT (PLANK STYLE) FLOORING AT ENTRY AREA IN FRONT OF DOUBLE DOOR
15. 15" ACCESSIBLE TRANSITION FOR DANCE FLOOR
16. PROVIDE LVT (PLANK STYLE) FLOORING IN FRONT OF TOILET ROOMS AND BREAK AREA
17. WALL HATCH INDICATES ERECTED, FULL HEIGHT PARTITION FOR THE TENANT IMPROVEMENT PLAN, AFTER THE CORE AND SHELL WORK IS COMPLETE
18. NEW T.I. HALF-HEIGHT WALL -T/O WALL TO BE 42" A.F.F.
19. PROVIDE NEW FLOOR SINK IN EXISTING CONC. SLAB -SEE PLUMBING DRAWINGS
20. NEW T.I. CABINETRY -SEE SHEET A402

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

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No.	Issuances / Revisions / Submissions	Date
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NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

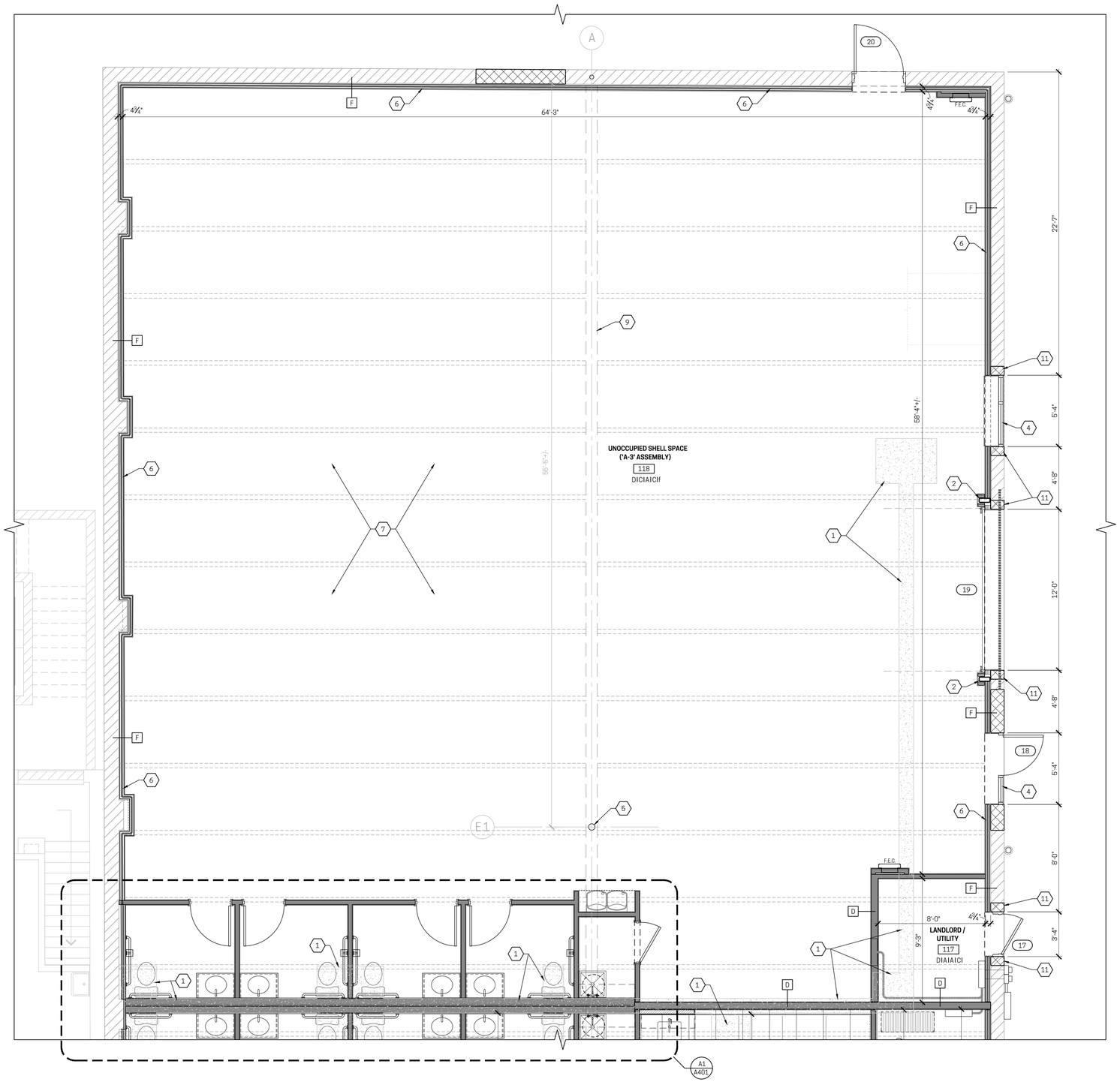
STATE OF OHIO · GRAHAM MICHAEL KALBLI · 13499 · REGISTERED ARCHITECT

Drawing Title
ENLARGED FLOOR PLAN

Document No.
A102

A1 **ENLARGED FLOOR PLAN**
1/4" = 1'-0" — TENANT SPACE ... 'SUITE C100'

PLOTTED: Friday, September 1, 2023 4:25:54 PM



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FINISH LEGEND

ROOM

ROOM NUMBER — XXX

AIAIAIAIn

FLOOR FINISH
BASE
WALL FINISH
CEILING
REMARKS

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c. PROVIDE 8' FRP PANELS 4 FEET EA DIRECTION at SERVICE SINK, MOLD & MILDEW RESISTANT PAINT ('A') ELSEWHERE
d. PROVIDE ACCESSIBLE TRANSITION STRIP BETWEEN LVT & SEALED CONCRETE
e. TENANT to PROVIDE ACCESSIBLE WALK-OFF MATS at ENTRANCE LOCATIONS
f. PROVIDE "HI-HIDE" PRIMER COAT ONLY
g. DIRECT MOUNT TECTUM CLOUD PANELS to B/ JOISTS USING UNISTRUT
h. DRY-FALL PAINT EXPOSED ROOF STRUCTURE ABOVE
i. PROVIDE DARK COLOR at PERIMETER WALLS MATCHING DRY-FALL COLOR FROM 1'-6" AFF to U/SIDE of DECK
j. PROVIDE LVT FLOORING ('A') BETWEEN SPRUNG WOOD FLOOR and TOILET / BREAK ROOMS
k. PROVIDE MOLD & MILDEW RESISTANT PAINT on GWB CEILING

CORE AND SHELL KEY NOTES

1. PROVIDE NEW CONCRETE SLAB AT CUT/REMOVED SECTION OF EXISTING SLAB -PROVIDE 4,000 PSI, CONCRETE W/ SMOOTH TROWEL FINISH -MATCH THICKNESS OF EXISTING SLAB
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5. EXISTING STRUCTURAL STEEL COLUMN
6. OVER EXISTING EXTERIOR MASONRY WALL, PROVIDE NEW GYP. BD. OVER FURRING W/ INSULATION -REFER TO SHEET A501
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9. EXISTING GIRDER BEAM ABOVE
10. NEW ELECTRICAL PANEL -SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
11. 'TOOTH-IN' NEW MASONRY AS NEEDED AFTER REMOVAL/CUT FOR NEW OPENING
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RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
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NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

STATE OF OHIO · GRAHAM MICHAEL KALBLI · 13499 · REGISTERED ARCHITECT

Drawing Title

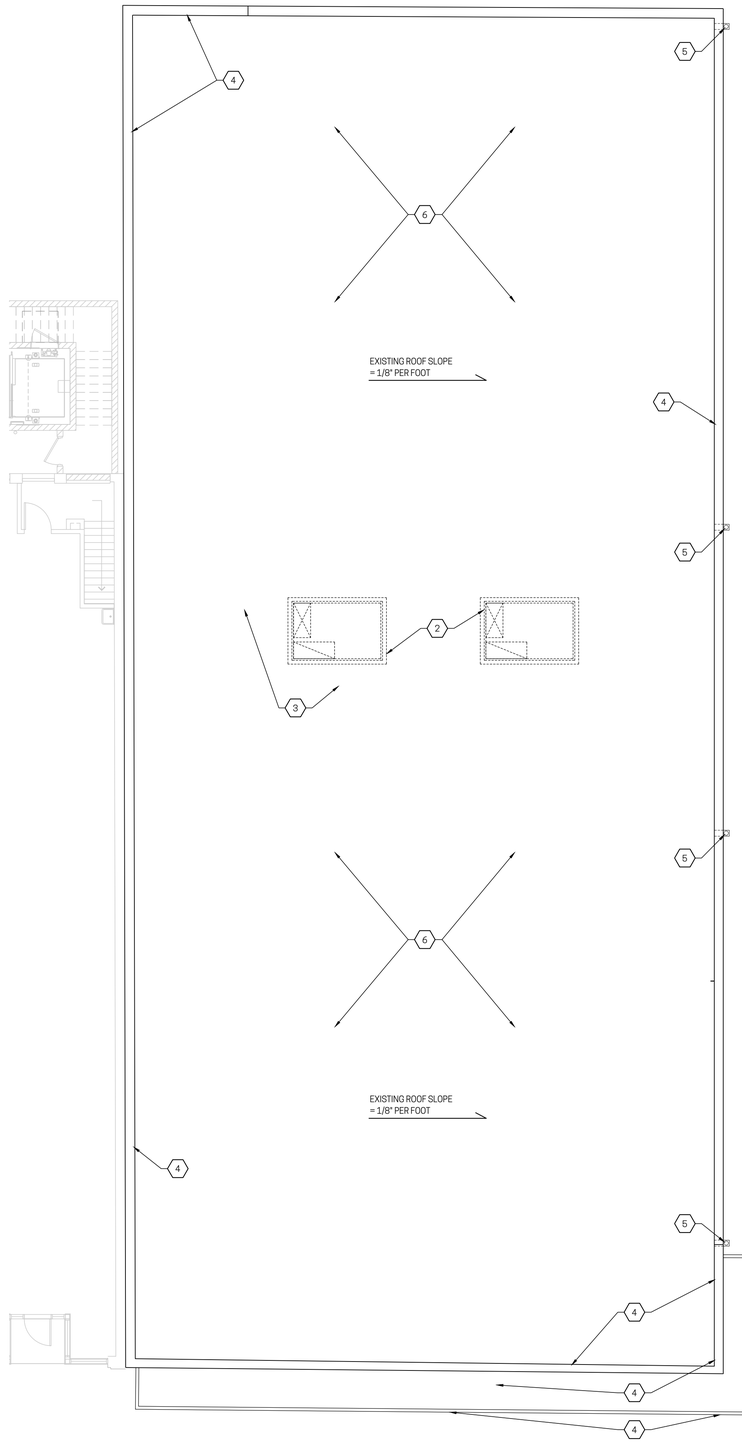
ENLARGED FLOOR PLAN

Document No.

A103

A1 — **ENLARGED FLOOR PLAN**

1/4" = 1'-0" — TENANT SPACE ... 'SUITE C200'



KEY NOTES

1. NEW EPDM ROOFING MEMBRANE OVER EXISTING CANOPY
2. NEW HVAC ROOF TOP UNITS AND ASSOCIATED EQUIPMENT - SEE HVAC DRAWINGS FOR EXACT LOCATIONS, TYPE , AND SIZE -SEE STRUCTURAL DRAWINGS FOR NEW ROOF OPENING AND RTU STABILIZATION
3. NEW SANITARY VENTS THROUGH ROOF -SEE PLUMBING DRAWINGS
4. EXISTING PARAPET
5. EXISTING SCUPPER BOXES AND DOWNSPOUTS
6. EXISTING EPDM ROOFING MEMBRANE TO REMAIN -PATCH AND REPAIR AS NEEDED

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
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13499
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Drawing Title

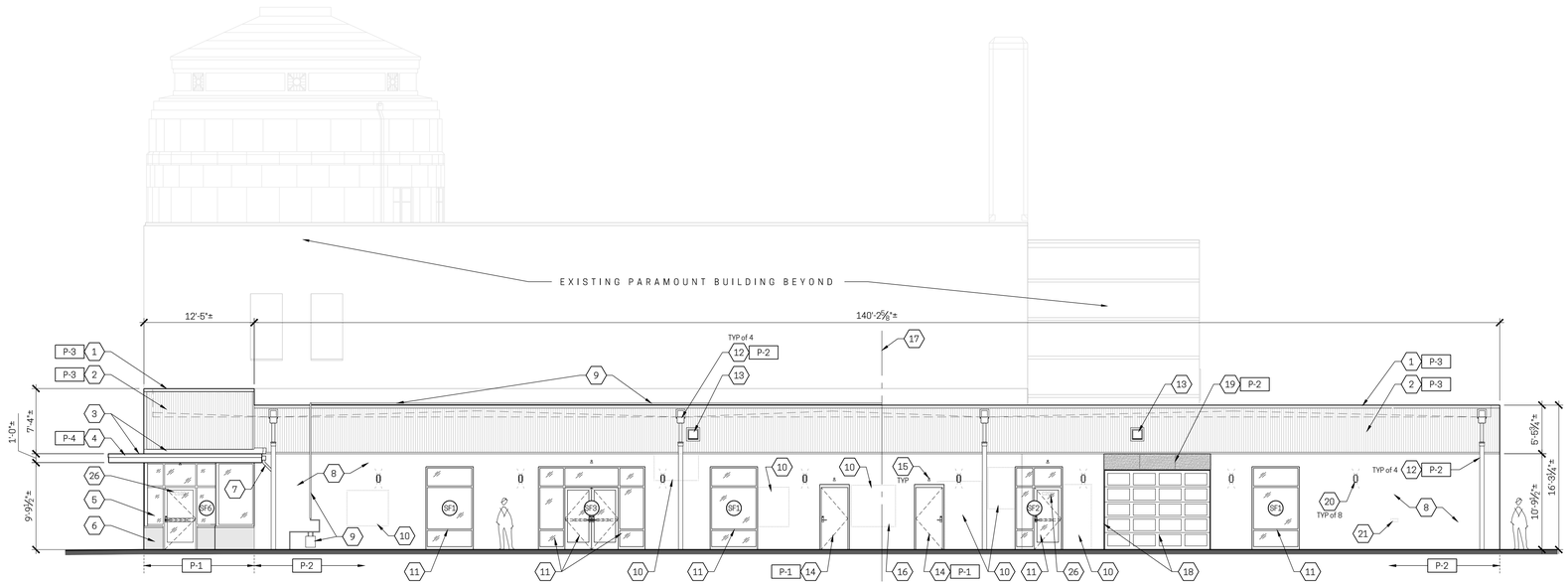
ROOF PLAN

Document No.

A110

A6 **ROOF PLAN**

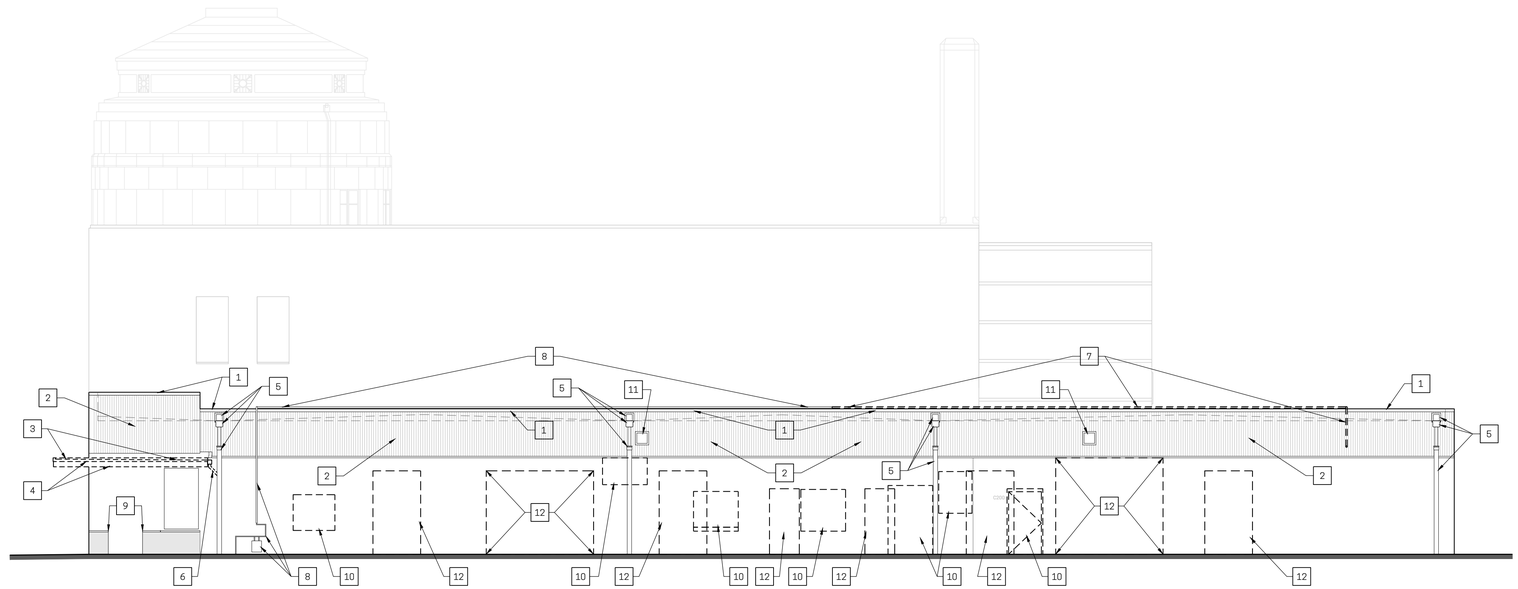
1/8" = 1'-0"



EAST ELEVATION

D1 BUILDING ELEVATIONS - PROPOSED

1/8" = 1'-0"



EAST ELEVATION

A1 BUILDING ELEVATIONS - DEMOLITION

1/8" = 1'-0"

GENERAL ELEVATION NOTE

EXCLUDING PROVISION OF ADDRESS NUMBERING AS REQUIRED PER CODE, ALL SIGNAGE (BUILDING MOUNTED and/or SITE MONUMENT) AS SHOWN HEREIN IS SIMPLY FOR REFERENCE AND SHALL BE DOCUMENTED, PERMITTED, AND CONSTRUCTED by OTHERS UNDER SEPARATE PERMIT

KEY NOTES - NEW WORK

1. EXISTING COPING TO REMAIN. PATCH/REPAIR DAMAGED SECTIONS. PROVIDE NEW PAINT FINISH.
2. EXISTING METAL SIDING TO REMAIN. PATCH/REPAIR DAMAGED SECTIONS. PROVIDE NEW PAINT FINISH
3. REPLACE DECK, ROOFING SYSTEM and FLASHING at EXISTING CANOPY w/ NEW 60 MIL EPDM MEMBRANE on MFR COVER BOARD over NEW STRUCTURAL METAL DECK. FLASH MEMBRANE UP EXISTING WALL AND PROVIDE TERM. BAR + METAL COUNTER FLASHING ADHERED TO EXISTING SUBSTRATE. REF SHEET A### FOR SECTION DETAIL.
4. NEW METAL FASCIA + LINEAR METAL SOFFIT SIDING on EXISTING CANOPY (COLORS TBD). REF DETAIL on SHEET A202 FOR ADDITIONAL DATA.
5. REPLACE EXISTING STOREFRONT w/NEW STOREFRONT SYSTEM IN SAME OPENING. INFILL EXISTING DOOR on SOUTH FACING ELEVATIONS and ADJUST R.O. FOR NEW DOOR on EAST FACING ELEVATION as REQUIRED.
6. PATCH/REPAIR/POINT EXISTING MASONRY KNEE WALL BENEATH REPLACEMENT STOREFRONT. INFILL OPENING FROM REMOVED DOOR WITH MASONRY TO MATCH EXISTING. PROVIDE NEW EXTERIOR GRADE MASONRY w/ TEXTURED MINERAL PAINT FINISH.
7. REPLACE CANOPY DOWNSPOUT w/ NEW. CONNECT TO EXISTING LEADER SAME AS EXISTING SETUP.
8. PATCH/REPAIR/POINT EXISTING MASONRY WALL. PROVIDE NEW EXTERIOR GRADE MASONRY TEXTURED MINERAL PAINT FINISH (TEXTURED).
9. EXISTING NATURAL GAS PIPING and METER TO REMAIN. SEE HVAC OR PLUMBING DRAWINGS FOR ADDED NAT. GAS LINE TO NEW RTU'S. PROVIDE PAINT FINISH TO MATCH ADJACENT SURFACE
10. REMOVE OLD OPENING INFILL COMPONENTS or DOOR/FRAME and PATCH w/ NEW MASONRY INFILL TO MATCH EXISTING MASONRY + COURSING. SAME FINISH AS ADJACENT BRICK SURFACES.
11. NEW (CLEAR ANODIZED) STOREFRONT SYSTEM in NEW WALL OPENING. REF SHEET A601 FOR ADDITIONAL STOREFRONT DATA. REF STRUCTURAL DRAWINGS for OPENING SUPPORT DATA.
12. EXISTING SCUPPERS, COLLECTOR BOXES, and LEADERS to REMAIN. PROVIDE NEW PAINT FINISH (SATIN BLACK).
13. EXISTING SECURITY LIGHT TO REMAIN. PATCH/REPAIR/PAINT METAL SIDING AROUND AS REQUIRED FOR WEATHERPROOF INSTALLATION. REMOVE/RESET FIXTURE IF REQUIRED TO DO SO.
14. NEW HOLLOW METAL DOOR and FRAME in NEW OPENING. REF SHEET A601 FOR ADDITIONAL DATA. REF STRUCTURAL DRAWINGS for OPENING SUPPORT DATA.
15. REMOTE HEAD for EMERGENCY LIGHTING (TYP ABOVE ALL DESIGNATED EXIT DOORS).
16. NEW ELECTRICAL EQUIPMENT. REF ELECTRICAL DRAWINGS for ADDITIONAL DATA.
17. CENTERLINE LOCATION OF INTERIOR DEMISING WALL BETWEEN TENANT SPACES.
18. NEW ALUMINUM (CLEAR ANODIZED) & GLASS OVERHEAD DOOR SYSTEM. PROVIDE ¾" PAINTED FIBER CEMENT JAMB CASING AND WEATHERSEAL.
19. FIBER CEMENT PANEL (e.g., *HARDIPANEL*) CLADDING over WEATHER BARRIER on 5/8" GYP. SHEATHING on 3 5/8" METAL STUDS w/ R-15 BATT INSULATION & 5/8" GWB INTERIOR FACING.
20. NEW UP/DOWN EXTERIOR WALL SCONCE - REF ELECTRICAL DRAWINGS for ADDITIONAL DATA.
21. REPAIR EXISTING MASONRY WALL WHERE GAS PIPING PENETRATION HAS BEEN REMOVED.
22. NEW BRAKE FORMED PRE-FINISHED METAL SILL w/ 4" MIN. END DAMNS ADHERED/SEALED TO MASONRY JAMBS (COLOR TBD).
23. REPLACE EXISTING HM DOOR w/ NEW DOOR + HARDWARE. EXISTING HM FRAME TO REMAIN IN PLACE (PATCH/REPAIR/REFINISH AS REQUIRED). REF SHEET A601 FOR MORE INFORMATION
24. NEW LARGE "WEDGE" SECURITY LIGHTS -REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
25. DIE-CUT 9"h VINYL ADDRESS NUMBERS APPLIED TO GLAZING
26. DIE-CUT 5"h VINYL SUITE NUMBERS APPLIED TO GLAZING

KEY NOTES - DEMOLITION

1. EXISTING COPING TO REMAIN
2. EXISTING METAL SIDING TO REMAIN
3. REMOVE EXISTING ROOF DECK, MEMBRANE, AND FLASHING AT EXISTING CANOPY
4. REMOVE EXISTING METAL FASCIA AND LINEAR METAL SOFFIT SIDING ON EXISTING CANOPY
5. EXISTING SCUPPERS, COLLECTOR BOXES, and LEADERS to REMAIN
6. REMOVE EXISTING CANOPY DOWNSPOUT
7. REMOVE EXISTING NATURAL GAS LINE BACK TO CENTER OF BUILDING -SEE GAS PIPING DIAGRAM IN THE HVAC OR PLUMBING DRAWINGS
8. SECTION OF EXISTING NATURAL GAS PIPING ON TOP OF COPING AND AT METER TO REMAIN. EXISTING GAS METER TO REMAIN.
9. ADJUST EXISTING OPENING FOR NEW DOOR WIDTH
10. REMOVE OLD OPENING INFILL COMPONENTS or DOOR/FRAME
11. EXISTING SECURITY LIGHT TO REMAIN
12. REMOVE SECTION OF EXISTING EXTERIOR WALL FOR NEW DOORS, STOREFRONT, OR OVERHEAD SECTIONAL DOOR. SEE SHEET A601 FOR OPENING DIMENSIONS AND DEMOLITION FLOOR PLAN ON SHEET D101 FOR LOCATION OF OPENINGS

EXTERIOR ELEVATION FINISHES

COLORS per FIRESTONE 'UNA-CLAD' COLOR CHART.
FOR NON-METALLIC FINISHES, COLOR MATCH TO METAL FINISHES TO COLOR LISTED

P-1	PAINTED MASONRY (BASE):	"CHARCOAL"
P-2	PAINTED MASONRY (MAIN BODY)	"CITYSCAPE"
	CEMENT PANEL CLADDING & COLLECTOR BOXES / LEADERS:	
P-3	COPING & METAL SIDING:	"BONE WHITE"
P-4	ENTRY CANOPY:	"SILVER METALLIC"

RENOVATIONS / ALTERATIONS for:

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CINCINNATI, OH 45206
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- SF1 — STOREFRONT TAG
- # — ELEVATION FINISH TAG

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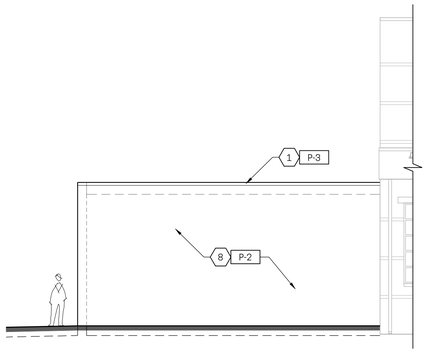
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO · GRAHAM MICHAEL KALBLI · 13499 · REGISTERED ARCHITECT

Drawing Title
BUILDING ELEVATIONS

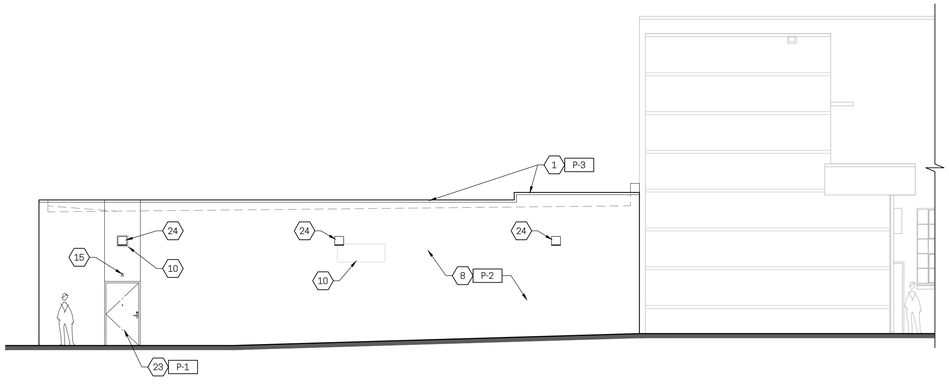
Document No.
A201



WEST ELEVATION

F6 | BUILDING ELEVATION - PROPOSED

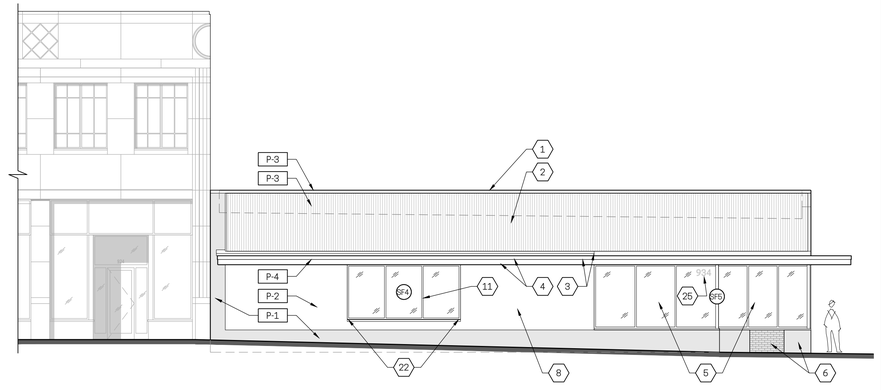
1/8" = 1'-0"



NORTH ELEVATION

D1 | BUILDING ELEVATIONS - PROPOSED

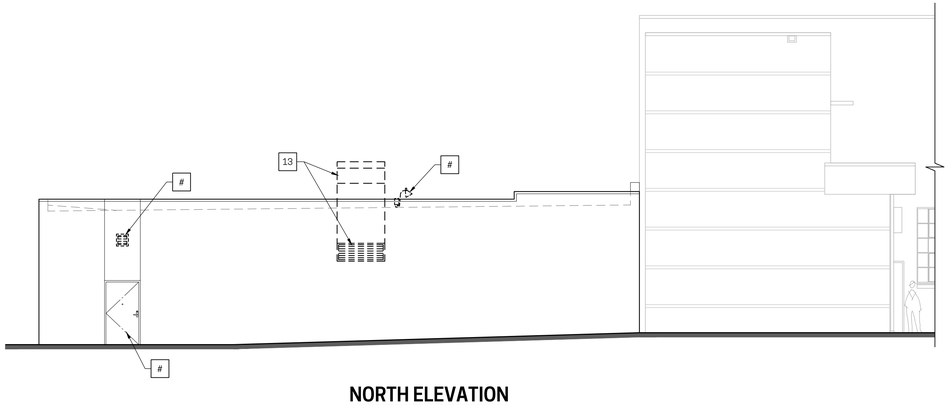
1/8" = 1'-0"



SOUTH ELEVATION

D6 | BUILDING ELEVATIONS - PROPOSED

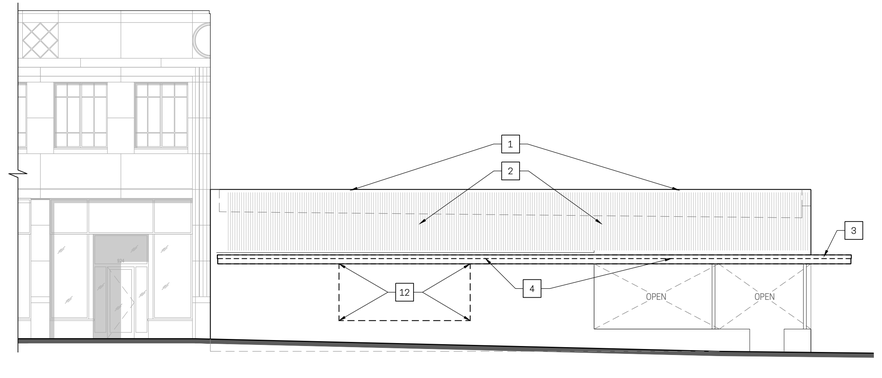
1/8" = 1'-0"



NORTH ELEVATION

A1 | BUILDING ELEVATIONS - DEMOLITION

1/8" = 1'-0"



SOUTH ELEVATION

A6 | BUILDING ELEVATIONS - DEMOLITION

1/8" = 1'-0"

GENERAL ELEVATION NOTE

EXCLUDING PROVISION OF ADDRESS NUMBERING AS REQUIRED PER CODE, ALL SIGNAGE (BUILDING MOUNTED and/or SITE MONUMENT) AS SHOWN HEREIN IS SIMPLY FOR REFERENCE AND SHALL BE DOCUMENTED, PERMITTED, AND CONSTRUCTED by OTHERS UNDER SEPARATE PERMIT

KEY NOTES - NEW WORK

1. EXISTING COPING TO REMAIN. PATCH/REPAIR DAMAGED SECTIONS. PROVIDE NEW PAINT FINISH.
2. EXISTING METAL SIDING TO REMAIN. PATCH/REPAIR DAMAGED SECTIONS. PROVIDE NEW PAINT FINISH.
3. REPLACE DECK, ROOFING SYSTEM and FLASHING at EXISTING CANOPY w/ NEW 60 MIL EPDM MEMBRANE on MFR COVER BOARD over NEW STRUCTURAL METAL DECK. FLASH MEMBRANE UP EXISTING WALL AND PROVIDE TERM BAR + METAL COUNTER FLASHING ADHERED TO EXISTING SUBSTRATE. REF SHEET A###' FOR SECTION DETAIL.
4. NEW METAL FASCIA + LINEAR METAL SOFFIT SIDING on EXISTING CANOPY (COLORS TBD). REF DETAIL on SHEET A202 FOR ADDITIONAL DATA.
5. REPLACE EXISTING STOREFRONT w/NEW STOREFRONT SYSTEM IN SAME OPENING. INFILL EXISTING DOOR on SOUTH FACING ELEVATIONS and ADJUST R.O. FOR NEW DOOR on EAST FACING ELEVATION as REQUIRED.
6. PATCH/REPAIR/POINT EXISTING MASONRY KNEE WALL BENEATH REPLACEMENT STOREFRONT. INFILL OPENING FROM REMOVED DOOR WITH MASONRY TO MATCH EXISTING. PROVIDE NEW EXTERIOR GRADE MASONRY w/ TEXTURED MINERAL PAINT FINISH.
7. REPLACE CANOPY DOWNSPOUT w/ NEW. CONNECT TO EXISTING LEADER SAME AS EXISTING SETUP.
8. PATCH/REPAIR/POINT EXISTING MASONRY WALL. PROVIDE NEW EXTERIOR GRADE MASONRY TEXTURED MINERAL PAINT FINISH (TEXTURED).
9. EXISTING GAS PIPING and METER TO REMAIN. PROVIDE PAINT FINISH TO MATCH ADJACENT SURFACE
10. REMOVE OLD OPENING INFILL COMPONENTS or DOOR/FRAME and PATCH w/ NEW MASONRY INFILL TO MATCH EXISTING MASONRY + COURSING. SAME FINISH AS ADJACENT BRICK SURFACES.
11. NEW (CLEAR ANODIZED) STOREFRONT SYSTEM in NEW WALL OPENING. REF SHEET A601 FOR ADDITIONAL STOREFRONT DATA. REF STRUCTURAL DRAWINGS for OPENING SUPPORT DATA.
12. EXISTING SCUPPERS, COLLECTOR BOXES, and LEADERS to REMAIN. PROVIDE NEW PAINT FINISH (SATIN BLACK).
13. EXISTING SECURITY LIGHT TO REMAIN. PATCH/REPAIR/PAINT METAL SIDING AROUND AS REQUIRED FOR WEATHERPROOF INSTALLATION. REMOVE/RESET FIXTURE IF REQUIRED TO DO SO.
14. NEW HOLLOW METAL DOOR and FRAME in NEW OPENING. REF SHEET A601 FOR ADDITIONAL DATA. REF STRUCTURAL DRAWINGS for OPENING SUPPORT DATA.
15. REMOTE HEAD for EMERGENCY LIGHTING (TYP ABOVE ALL DESIGNATED EXIT DOORS).
16. NEW ELECTRICAL EQUIPMENT. REF ELECTRICAL DRAWINGS for ADDITIONAL DATA.
17. CENTERLINE LOCATION OF INTERIOR DEMISING WALL BETWEEN TENANT SPACES.
18. NEW ALUMINUM (CLEAR ANODIZED) & GLASS OVERHEAD DOOR SYSTEM. PROVIDE ¾" PAINTED FIBER CEMENT JAMB CASING AND WEATHERSEAL.
19. FIBER CEMENT PANEL (e.g., HARDIPANEL) CLADDING over WEATHER BARRIER on ½" GYP SHEATHING on 3 ½" METAL STUDS w/ R-15 BATT INSULATION & ⅝" GWB INTERIOR FACING.
20. NEW UP/DOWN EXTERIOR WALL SCONCE - REF ELECTRICAL DRAWINGS for ADDITIONAL DATA.
21. REPAIR EXISTING MASONRY WALL WHERE GAS PIPING PENETRATION HAS BEEN REMOVED.
22. NEW BRAKE FORMED PRE-FINISHED METAL SILL w/ 4" MIN. END DAMNS ADHERED/SEALED TO MASONRY JAMBS (COLOR TBD).
23. REPLACE EXISTING HM DOOR w/ NEW DOOR + HARDWARE. EXISTING HM FRAME TO REMAIN IN PLACE (PATCH/REPAIR/REFINISH AS REQUIRED). REF SHEET A601 FOR MORE INFORMATION.
24. NEW LARGE "WEDGE" SECURITY LIGHTS -REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
25. DIE-CUT 9"h VINYL ADDRESS NUMBERS APPLIED TO GLAZING
26. DIE-CUT 5"h VINYL SUITE NUMBERS APPLIED TO GLAZING

KEY NOTES - DEMOLITION

1. EXISTING COPING TO REMAIN
2. EXISTING METAL SIDING TO REMAIN
3. REMOVE EXISTING ROOF DECK, MEMBRANE, AND FLASHING AT EXISTING CANOPY
4. REMOVE EXISTING METAL FASCIA AND LINEAR METAL SOFFIT SIDING ON EXISTING CANOPY
5. EXISTING SCUPPERS, COLLECTOR BOXES, and LEADERS to REMAIN
6. REMOVE EXISTING CANOPY DOWNSPOUT
7. REMOVE EXISTING NATURAL GAS LINE BACK TO CENTER OF BUILDING -SEE GAS PIPING DIAGRAM IN THE HVAC OR PLUMBING DRAWINGS
8. SECTION OF EXISTING NATURAL GAS PIPING ON TOP OF COPING AND AT METER TO REMAIN. EXISTING GAS METER TO REMAIN
9. ADJUST EXISTING OPENING FOR NEW DOOR WIDTH
10. REMOVE OLD OPENING INFILL COMPONENTS or DOOR/FRAME
11. EXISTING SECURITY LIGHT TO REMAIN
12. REMOVE SECTION OF EXISTING EXTERIOR WALL FOR NEW DOORS, STOREFRONT, OR OVERHEAD SECTIONAL DOOR. SEE SHEET A601 FOR OPENING DIMENSIONS AND DEMOLITION FLOOR PLAN ON SHEET D101 FOR LOCATION OF OPENINGS
13. REMOVE EXISTING LOUVER AND ASSOCIATED DUCTWORK

EXTERIOR ELEVATION FINISHES

COLORS per FIRESTONE 'UNA-CLAD' COLOR CHART,
FOR NON-METALLIC FINISHES, COLOR MATCH TO METAL FINISHES TO COLOR LISTED

P-1	PAINTED MASONRY (BASE):	"CHARCOAL"
P-2	PAINTED MASONRY (MAIN BODY)	"CITYSCAPE"
	CEMENT PANEL CLADDING & COLLECTOR BOXES / LEADERS:	
P-3	COPING & METAL SIDING:	"BONE WHITE"
P-4	ENTRY CANOPY:	"SILVER METALLIC"

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

- A — PARTITION TAG
- - — SELECTIVE DEMO KEY NOTE
- - — FLOOR PLAN / ELEVATION KEY NOTE
- - — RCP / ACCESSIBILITY CLEARANCE KEY NOTE
- KITCHEN / 105 / B1B1C1B1c — ROOM NAME / NUMBER TAG; ROOM FINISH DATA
- 107 — DOOR ID TAG or CEILING HEIGHT TAG
- 30" BC — GENERAL TEXT NOTE
- A8 / A110 — DETAIL REF TAG
- NEW PARTITION
- NEW UNDERCOUNTER PARTITION
- NEW BULKHEAD ABOVE
- EXISTING PARTITION
- EXISTING BRICK MASONRY WALL
- EXISTING CMU MASONRY WALL
- ELEVATION TAG
- INTERIOR ELEVATION TAG
- SF1 — STOREFRONT TAG
- # — ELEVATION FINISH TAG

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

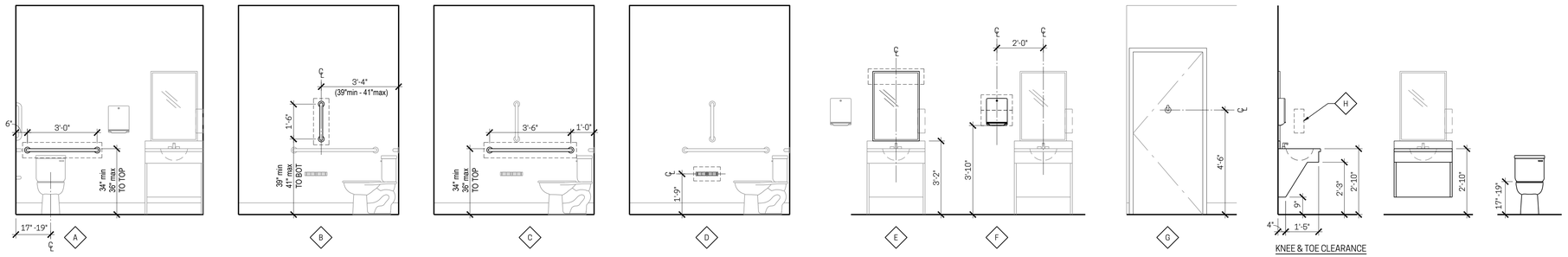
GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO
GRAHAM MICHAEL KALBLI
13499
REGISTERED ARCHITECT

Drawing Title

BUILDING ELEVATIONS

Document No.

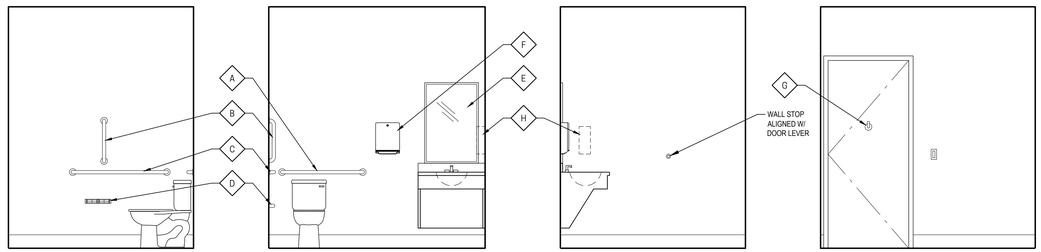
A202



G1 TOILET ROOM ACCESSORIES DATA

1/2" = 1'-0"

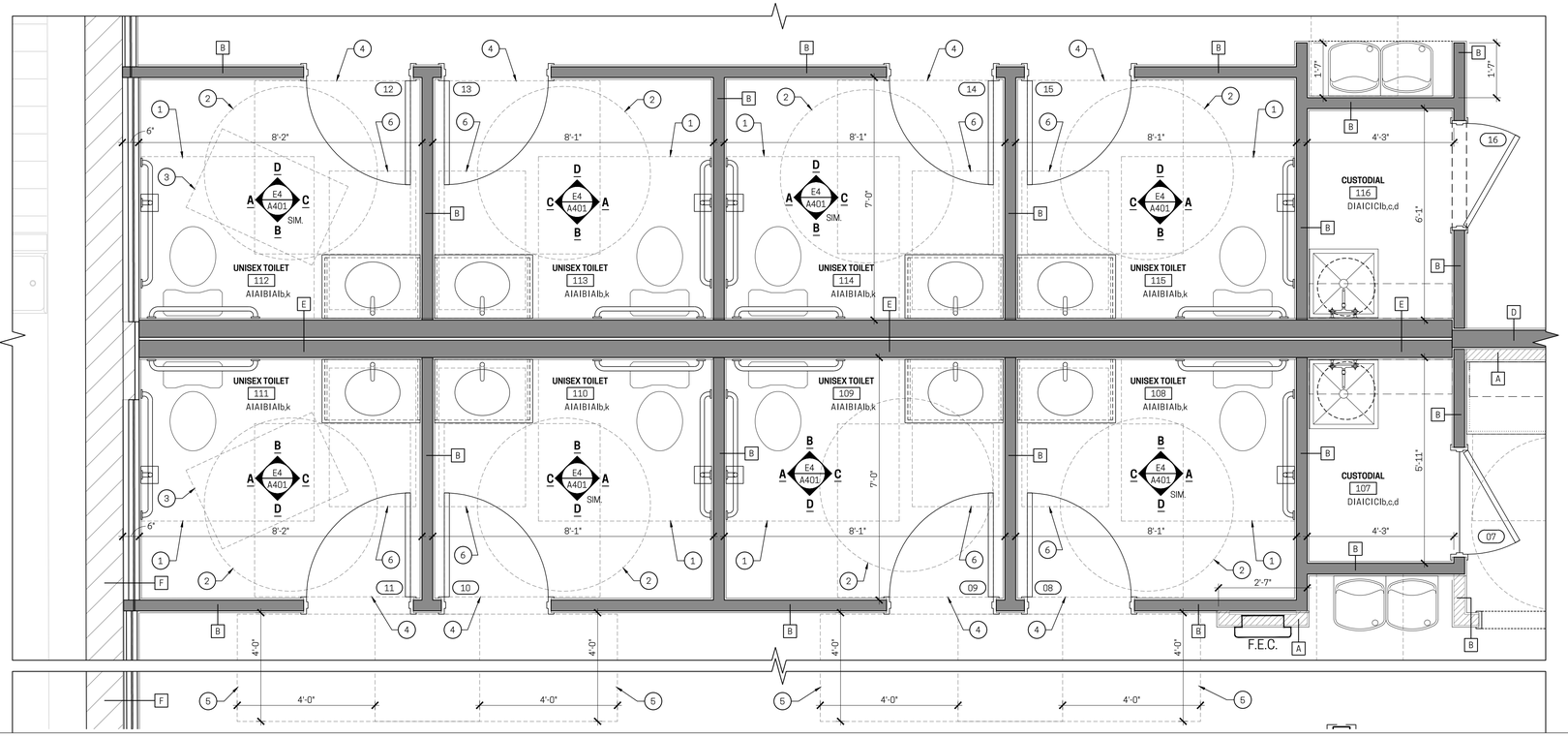
EQUIVALENT PRODUCTS FROM BRADLEY or ASI ARE ALSO ACCEPTABLE



A B C D

E4 TOILET ROOM ELEVATIONS

3/8" = 1'-0"



A1 ENLARGED TOILET ROOM PLAN

1/2" = 1'-0"

TOILET ACCESSORIES

DESIGN BASIS MANUFACTURER IS '*BOBRICK*'.
MATCHING PRODUCTS BY *BRADLEY* OR *ASI* ARE ACCEPTABLE

ID	DESCRIPTION	BOBRICK NUMBER
A	36" GRAB BAR	B-6806.99 X 36
B	18" GRAB BAR	B-6806.99 X 18
C	42" GRAB BAR	B-6806.99 - 42
D	TOILET TISSUE DISPENSER	B-274
E	24"WX36"H MIRROR	B-165 2436
F	PAPER TOWEL DISPENSER	B-262
G	ROBE / COAT HOOK	B-2116
H	SOAP DISPENSER (OPTIONAL)	B-5050

FINISH LEGEND

ROOM NUMBER — ROOM XXX
FLOOR FINISH / BASE / WALL FINISH / CEILING / REMARKS — A1A1A1A1n

FLOOR - 1ST LETTER
A - LVT (PLANK STYLE)
B - WOOD (SPRUNG DANCE FLOOR)
C - CARPET TILE
D - SEALED CONCRETE

BASE - 2ND LETTER
A - 6" RESILIENT
B - 6" WOOD
C - NO APPLIED BASE / EXISTING

WALL - 3RD LETTER
A - PAINT
B - EPOXY PAINT
C - FRP
D - EXISTING / NO APPLIED FINISH

CEILING - 4TH LETTER
A - PAINTED GWB
B - SUSPENDED CLG. SYSTEM
C - NONE
D - EXPOSED w/ TECTUM CLOUDS

REMARKS
a. PROVIDE MFR STD ACCESSIBLE TRANSITION STRIPS FOR SPRUNG WOOD FLOOR SYSTEM at OPEN PERIMETER & DOOR OPENINGS.
b. WATERPROOF SEALANT at TOP & BOTTOM of BASE (and FRP) and at I/S CORNERS at TOILET and SERVICE SINK AREAS
c. PROVIDE 8' FRP PANELS 4 FEET EA DIRECTION at SERVICE SINK, MOLD & MILDEW RESISTANT PAINT ('A') ELSEWHERE
d. PROVIDE ACCESSIBLE TRANSITION STRIP BETWEEN LVT & SEALED CONCRETE
e. TENANT to PROVIDE ACCESSIBLE WALK-OFF MATS at ENTRANCE LOCATIONS
f. PROVIDE "HI-HIDE" PRIMER COAT ONLY
g. DIRECT MOUNT TECTUM CLOUD PANELS to B/ JOISTS USING UNISTRUT
h. DRY-FALL PAINT EXPOSED ROOF STRUCTURE ABOVE
i. PROVIDE DARK COLOR at PERIMETER WALLS MATCHING DRY-FALL COLOR FROM 12'-6" AFF to U/SIDE of DECK
j. PROVIDE LVT FLOORING ('A') BETWEEN SPRUNG WOOD FLOOR and TOILET / BREAK ROOMS
k. PROVIDE MOLD & MILDEW RESISTANT PAINT on GWB CEILING

ACCESSIBILITY CLEARANCES (per ICC ANSI 117.1)

1. 60"w. x 56"d. FIXTURE CLEARANCE for WATER CLOSET **(604.3)**
2. 60"dia. MANEUVERING CLEARANCE **(304.3.1 & 603.2.2 exc2)**
3. 30"x48" CLEAR FLOOR SPACE **(305 & 603.2.2 exc2)**
4. 60"d. x 54"w. DOOR MANEUVERING CLEARANCE - PULL SIDE ... for 36" DOOR **(404.2.3).**
5. 48"d. x 48"w. DOOR MANEUVERING CLEARANCE (PUSH SIDE for 36" DOOR - WITH LATCH & CLOSER **(404.2.3)**
6. 30" x 48" FIXTURE CLEARANCE for LAVATORY **(603.2.2 exc2 & 606.2,606.3)**

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

LEGEND

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- A8 / A110 — DETAIL REF TAG
- NEW PARTITION
- NEW UNDERCOUNTER PARTITION
- NEW BULKHEAD ABOVE
- EXISTING PARTITION
- EXISTING BRICK MASONRY WALL
- EXISTING CMU MASONRY WALL
- - — ELEVATION TAG
- - — INTERIOR ELEVATION TAG

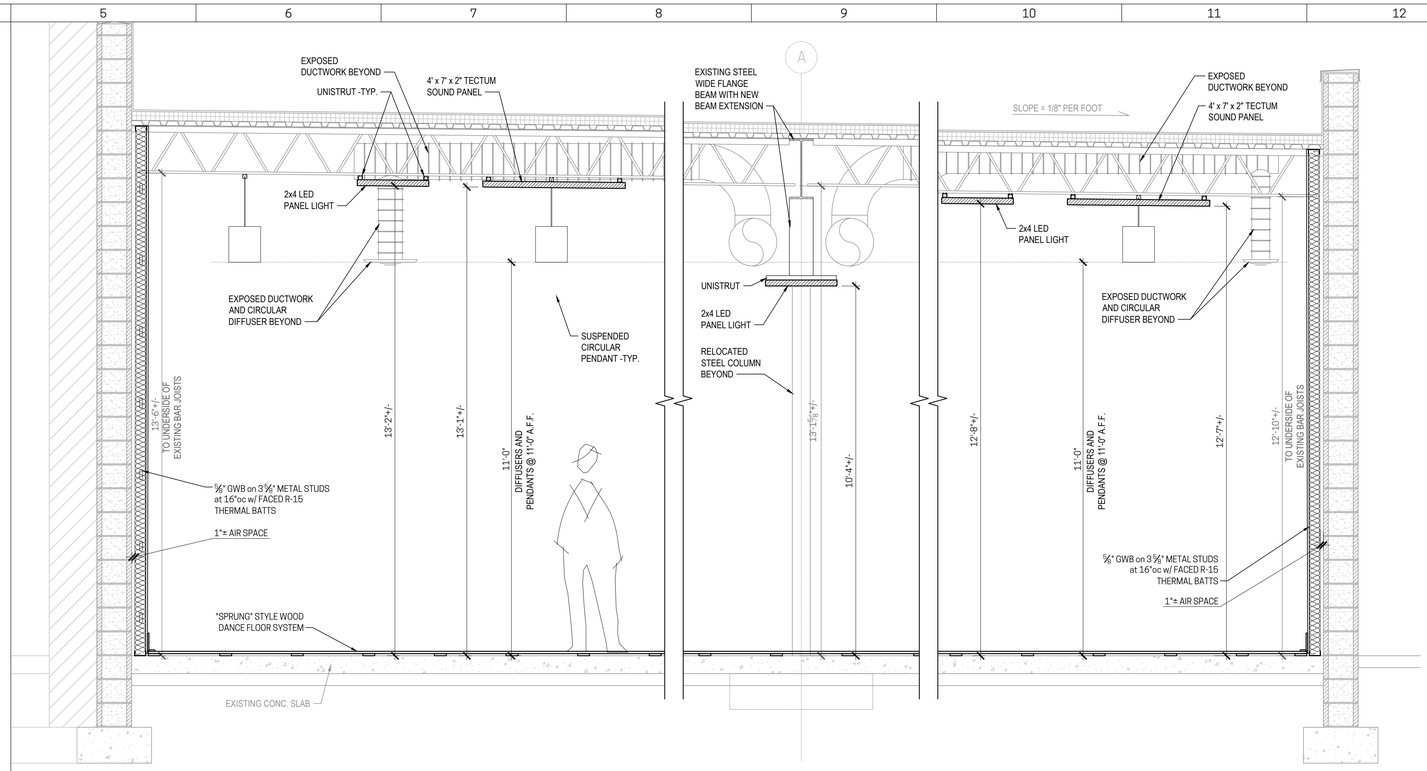
No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO ARCHITECT
GRAHAM KALBLI 13499 REGISTERED

Drawing Title
ENLARGED TOILET RM PLANS & DETAILS

Document No.
A401



E5 BUILDING SECTION

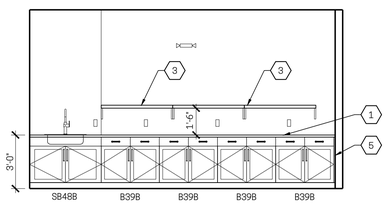
1/2" = 1'-0" | ACROSS BALLROOM

GENERALCABINETRY NOTES:

- DIMENSIONS ARE TO FINISHED FACES.
- DESIGN BASIS for CABINETS: 'SMART CABINETS', "PORTAGE" SLAB DRAWE, STD OVERLAY in "WILLOW" PAINTED FINISH
- CABINET SIZES INDICATED ARE FOR DESIGN INTENT ONLY. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO PROCUREMENT.
- PROVIDE FILL PANELS AS REQUIRED. ALL EXPOSED EDGES/ FACES SHALL BE FINISHED.
- PROVIDE FINISHED END PANELS AT ALL EXPOSED CABINET ENDS.
- ALL FINISHED FILLERS AND END PANELS SHALL MATCH THE CABINET FINISH.
- PROVIDE BLOCKING FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND CABINETS.

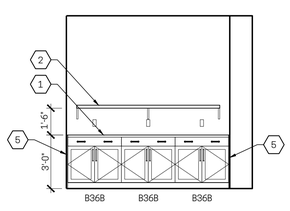
KEY NOTES: (#)

1. 2 CM QUARTZ COUNTERTOP
2. 96" LONG x 18" DEEP ST. STEEL SHELVING WITH BRACKETS (*REGENCY #600WS1896HD x 1*) - PROVIDE BLOCKING IN WALL AS NEEDED FOR ANCHORING
3. 48" LONG x 18" DEEP ST. STEEL SHELVING WITH BRACKETS (*REGENCY #600WS1848HD x 3*) - PROVIDE BLOCKING IN WALL AS NEEDED FOR ANCHORING
4. GYP. BD. PARTITION
5. END FILLER AS NEEDED



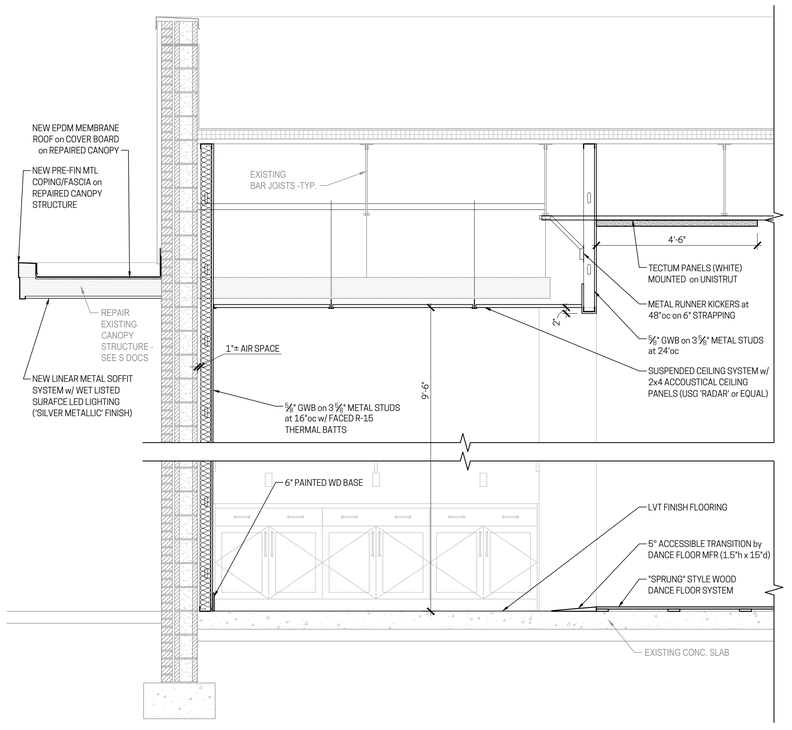
A4 TI - ELEVATION

1/2" = 1'-0" | at BREAK CABINETRY



A6 TI - ELEVATION

1/2" = 1'-0" | at LOBBY CABINETRY



A8 SECTION

1/2" = 1'-0" | at CANOPY / LOBBY / BALLROOM BUKLHEAD

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

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NEW REPUBLIC architecture

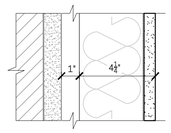
GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

Drawing Title
INTERIOR SECTIONS & DETAILS

Document No.
A402

PLOTTED: Friday, September 1, 2023 4:33:03 PM

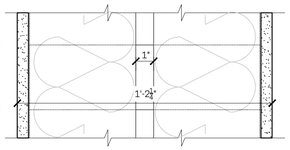
- GYPSUM WALLBOARD
- 3 5/8" METAL STUDS at 16"o.c. w/ R-13 THERMAL BATT INSULATON
- 1" AIR SPACE
- EXISTING PERIMETER CONSTRUCTION (MASONRY WALL or PLASTER on MASONRY WALL)



NON-COMPOSITE PARTITION
FULL-HEIGHT STUDS & GWB at FULL PERIMETER

PARTITION TYPE F
PERIMETER PARTITION

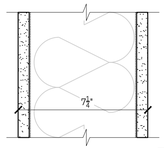
- 1 LAYER GWB
- 6" METAL STUDS at 16"o.c. w/ SOUND BATT INSULATION (FULL CAVITY)
- 1" SPACE
- STUD BRACED at 1/3 POINTS
- 6" METAL STUDS at 16"o.c. w/ SOUND BATT INSULATION (FULL CAVITY)
- 1 LAYER GWB



FULL-HEIGHT COMPOSITE PARTITION
NON-RATED, BUT CONSTRUCTED UNO HERE IN ACCORDANCE WITH *GA-600-2015 ASSEMBLY # 'WP-1350'.*
REF ASSEMBLY DATA on THIS SHEET

PARTITION TYPE E
DBL 6" STUD, SINGLE LAYER GWB EA. SIDE

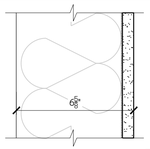
- GYPSUM WALLBOARD
- 6" METAL STUDS at 16"o.c.
- SOUND BATT INSULATION (FULL CAVITY)
- GYPSUM WALLBOARD



FULL-HEIGHT COMPOSITE PARTITION
NON-RATED, BUT CONSTRUCTED UNO HERE IN ACCORDANCE WITH *GA-600-2015 ASSEMBLY # 'WP-1350'.*
REF ASSEMBLY DATA on THIS SHEET

PARTITION TYPE D
6" STUD, SINGLE LAYER GWB EA. SIDE

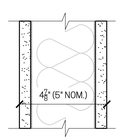
- GYPSUM WALLBOARD
- 6" METAL STUDS at 16"o.c.
- SOUND BATT INSULATION (FULL CAVITY
- GYPSUM WALLBOARD



NON COMPOSITE PARTITION
FULL-HEIGHT STUDS
GWB: FULL HEIGHT at EXPOSED LOCATIONS, to 10'-0" at CEILING LOCATIONS

PARTITION TYPE C
6" STUD, SINGLE LAYER GWB ONE SIDE

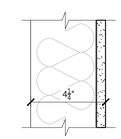
- GYPSUM WALLBOARD
- 3 5/8" METAL STUDS at 16"o.c.
- SOUND BATT INSULATION (FULL CAVITY)
- GYPSUM WALLBOARD



FULL-HEIGHT STUDS & GWB WHERE EXPOSED ON BOTH SIDES (COMPOSITE);
FULL-HEIGHT STUDS + FULL HGT GWB WHERE EXPOSED ON ONE SIDE, GWB to 10'-0" at CEILING LOCATIONS (NON-COMPOSITE);
STUDS & GWB to 10'-0" at CEILING LOCATIONS BOTH SIDES (NON-COMPOSITE);

PARTITION TYPE B
3⅝" STUD, SINGLE LAYER GWB EA. SIDE

- GYPSUM WALLBOARD
- 3 5/8" METAL STUDS at 16"o.c.
- SOUND BATT INSULATION



NON-COMPOSITE PARTITION
FULL-HEIGHT STUDS & GWB at EXPOSED LOCATIONS
STUDS and GWB to 10'-0" at CEILING LOCATIONS

PARTITION TYPE A
3⅝" STUD, SINGLE LAYER GWB ONE SIDE

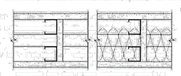
PROVIDE 5/8" TYPE 'X' GYPSUM WALLBOARD U.N.O. (i.e., TYPICAL).
PROVIDE MOISTURE RESISTANT (MR) WALLBOARD AT LOCATIONS WITHIN 4'-0" OF A WATER SOURCE, INCLUDING SIDE WALLS (e.g., TOILETS, LAVS, SINKS, DF's, ICE MACHINES, etc.)

CHASE WALLS, NONCOMBUSTIBLE

GA FILE NO. WP 5015	GENERIC	1 HOUR FIRE	50 to 54 STC SOUND

GYPSUM WALLBOARD, STEEL STUDS

One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel to a double row of 1-5/8", 18 mil (25 ga.), steel studs 24" o.c. and not less than 1" apart with 1" Type S drywall screws 8" o.c. at edges and 12" o.c. at intermediate studs. 5/8" gypsum board pieces 12" long x not less than 4-1/2" wide located at 173 points used as cross braces fastened to stud pairs with three 1" Type S drywall screws at each end of brace. Optionally 25 ga. stud or runner pieces; not less than 4-1/2" long, may be used as cross braces and attached with two No. 8 x 1/2" self-drilling steel screws at each end. Where total cavity depth exceeds 9-1/2", cross braces shall be fabricated from 25 ga. stud or runner pieces.
Joints staggered 24" on opposite sides. Sound tested with 3-1/2" glass fiber insulation stapled to one side in cavity. **(NLB)**



Thickness: 4-1/4"
Approx. Weight: 5-1/2 psf
Fire Test: UL R4024-13, -14, 11-17-76; UL R3660, 04NK28128, 11-18-04; UL Design U420
Sound Test: RAL TL76-155, 6-3-76

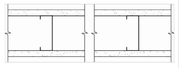
REFERENCED to PARTITION TYPE 'E'

WALLS AND INTERIOR PARTITIONS, NONCOMBUSTIBLE

GA FILE NO. WP 1350	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND

GYPSUM WALLBOARD, STEEL STUDS

One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8", 18 mil (25 ga.), steel studs 24" o.c. with 1" Type S drywall screws 8" o.c. at vertical joints and 12" o.c. at floor and ceiling runners and intermediate studs.
Joints staggered 24" on opposite sides. **(NLB)**



Thickness: 4-7/8"
Approx. Weight: 6 psf
Fire Test: FM WP-45, 6-19-68; OSU T-1770, 8-61; ULC 79T484, 79T500, 79T497, 8-12-81, ULC Design W415
Sound Test: NGC 2005004, 6-15-05 RAL TL06-114, 4-11-06

REFERENCED to PARTITION TYPE 'D'

A. REFERENCE SPECIFICATIONS FOR MORE DETAILED TECHNICAL DATA IN REGARDS TO DATA DEPICTED ON THIS SHEET.

B. REFERENCE PLAN SHEETS, INCLUDING LIFE SAFETY AND FLOOR PLANS, FOR RATED PARTITION LOCATIONS (as INDICATED PER RATED WALL LINE WORK - REF LEGEND)

C. REFERENCE SHEET A020 FOR ADDITIONAL OPTIONS AND REQUIREMENTS AT FIRE-RATED PARTITIONS; and SHEET A021 FOR ADDITIONAL INFORMATION AT PARTITION JUNCTIONS w/ FIRE-RATED HORIZONTAL ASSEMBLIES

D. FRAMING MEMBER DATA ON THIS SHEET PERTAINS TO NON-LOAD BEARING INTERIOR PARTITIONS. REFERENCE STRUCTURAL DOCUMENTS FOR STRUCTURAL (i.e. LOAD BEARING) FRAMING DATA

E. ½" REGULAR GYPSUM WALLBOARD IS TYPICAL FOR STANDARD PARTITIONS. ⅝" TYPE 'X' GYPSUM WALLBOARD IS STANDARD FOR FIRE-RATED PARTITIONS. MOISTURE RESISTANT GYPSUM WALLBOARD (½" REG or ⅝" TYPE 'X') TO BE SUBSTITUTED 1:1 at "WET WALL" LOCATIONS. ½" CEMENT BOARD MAY ALSO BE SUBSTITUTED 1:1 FOR EITHER TYPE. ½" TYPE 'X' or TYPE 'C' MAY BE USED WHEN INDICATED BY A PARTICULAR FIRE RATED ASSEMBLY DESCRIPTION

F. FOR STANDARD (NON-RATED) PARTITIONS, GYPSUM WALLBOARD NEED ONLY BE INSTALLED ON THE FINISH SIDE.

G. EXTEND GYPSUM WALLBOARD or CEMENT BOARD TO FLOOR AT ALL SHOWER ENCLOSURES (i.e. INSTALL BEHIND SHOWER BASE)

H. GYPSUM WALL BOARD FINISH TO BE PROVIDED AS FOLLOWS UNO:
- LEVEL 3: TYPICAL AT FINISH at ALL AREAS NOT EXPOSED TO VIEW
- LEVEL 4: TYPICAL AT ALL EXPOSED AREAS / SURFACES TO RECEIVE PAINT or WALLCOVERING FINISH
- LEVEL 5: PROVIDE AT GWB PATCHED AREAS OF EXSTG PLASTERED PARTITIONS (w/ TEXTURE TO MATCH EXSTG SURFACE)

H. ALL STUD PARTITIONS BASED ON 16"o.c. SPACING. SHAFTWALL FRAMING (IF APPLICABLE) BASED ON 24"o.c. SPACING.

I. WHERE METAL FRAMING IS USED, PROVIDE 20ga (33mil) MINIMUM at SHAFTWALL APPLICATIONS and 25ga (18mil) MINIMUM at OTHER PARTITION TYPES. WHEN USED, METAL FRAMING SHALL COMPLY w/ MFR SPECIFICATIONS, INSTALLATION GUIDELINES AND LIMITING HEIGHTS; w/ HORIZONTAL REINFORCING STRUTS ADDED or GAUGE THICKNESS INCREASED AS REQUIRED for COMPLIANCE. REFERENCE STRUCTURAL DOCS WHERE METAL IS USED IN A LOAD BEARING APPLICATION

J. CLEAN AND PREP EXISTING SURFACES WHERE NEW PARTITIONS INTERSECT WITH EXISTING CONSTRUCT (CEILINGS / FLOORS / WALLS) AS NECESSARY TO PROVIDE CLEAN AND COMPLETE JUNCTIONS

K. INSULATION:
- ACOUSTIC BATTS ARE OWNER / CONTRACTOR OPTION at INTERIOR PARTITIONS
- SPRAYED / BLOWN-IN DENSE-PACK CELLULOSE THERMAL INSULATION w/ POLY VAPOR BARRIER TYPICAL AT NEW PERIMETER STANDARD PARTITIONS UNO.
- FACED THERMAL BATT INSULATION OPTIONAL AT SELECT LOCATIONS SUCH AS AROUND LAUNDRY CLOSETS AND ELECTRICAL PANELS.
- FOR FIRE-RATED PARTITIONS AT PERIMETER, PROVIDE INSULATION IN ACCORDANCE WITH RATED ASSEMBLY DATA LISTED HEREIN

A3	REFERENCE ASSEMBLY DATA	A7	TYPICAL INTERIOR PARTITION TYPES
NO SCALE	EXCERPTED FROM OBC REFERENCED STANDARD ... GYPSUM ASSOCIATION 'GA-600-2015 FIRE RESISTANCE DESIGN MANUAL'	3" = 1'-0"	REFERENCE SHEET A020 for MORE DETAILED FIRE-RATED PARTITION DATA

A11	PARTITION NOTES

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

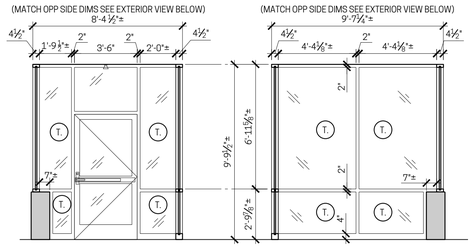
NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23

STATE OF OHIO · GRAHAM MICHAEL KALBLI · 13499 · REGISTERED ARCHITECT

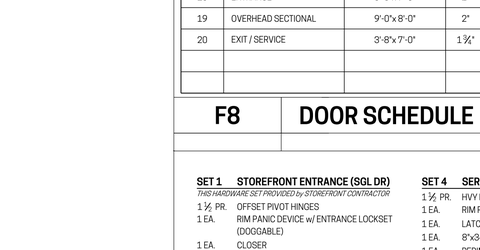
Drawing Title
INTERIOR PARTITION DATA

Document No.
A501



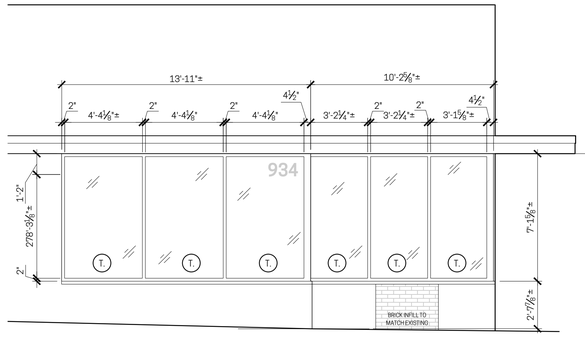
SF7

VESTIBULE - WEST
(VIEWED FROM VESTIBULE)



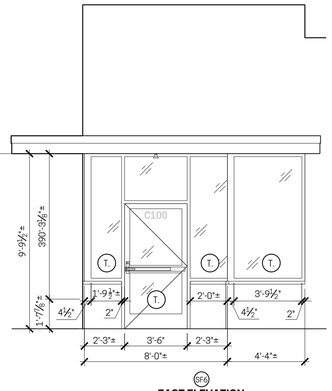
SF8

VESTIBULE - NORTH
(VIEWED FROM VESTIBULE)



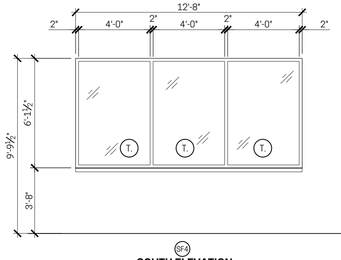
SF5

SOUTH ELEVATION
ENTRANCE at VESTIBULE - EXISTING OPENINGS
(VIEWED FROM EXTERIOR)



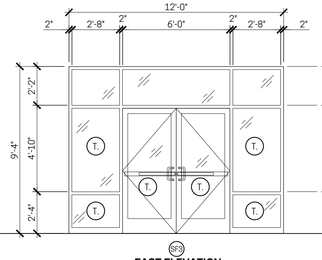
SF6

EAST ELEVATION
ENTRANCE at VESTIBULE - EXISTING OPENINGS
(VIEWED FROM EXTERIOR)



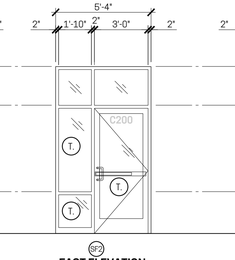
SF4

SOUTH ELEVATION
NEW OPENING
(VIEWED FROM EXTERIOR)



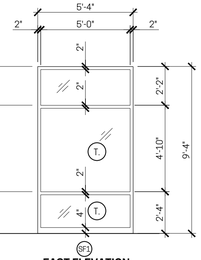
SF3

EAST ELEVATION
SIDE ENTRANCE - NEW OPENING
(VIEWED FROM EXTERIOR)



SF2

EAST ELEVATION
REAR TENANT ENTRANCE - NEW OPG
(VIEWED FROM EXTERIOR)



SF1

EAST ELEVATION
STOREFRONT - NEW OPENING
(VIEWED FROM EXTERIOR)

A1 ALUMINUM ENTRANCE & STOREFRONT SYSTEMS

1/4" = 1'- 0"

T. TEMPERED SAFETY GLAZING

NOTE: NEW STOREFRONT SYSTEMS SHALL BE 4 1/2" DARK BRONZE, ANODIZED, ALUMINUM W/ CENTER SET, INSULATED, TEMPERED, LOW-E, CLEAR GLAZING -TYP.

DOOR SCHEDULE

TAG	LOCATION	SIZE	THICK	TYPE	HDWR	ACTION	REMARKS
01	VESTIBULE (OUTER)	3'-6"x 7'-0"	2"	C	1	RHR	NEW ALUMINUM ENTRANCE + STOREFRONT SYSTEM
02	VESTIBULE (INNER)	3'-6"x 7'-0"	2"	B	1	RHR	NEW ALUMINUM ENTRANCE + STOREFRONT SYSTEM
03	STORAGE / UTILITY 1	6'-0"x 7'-0" (DBL DR)	1¾"	A	5	RHR (ACTIVE)	NEW INTERIOR SCWD DOOR & FRAME
04	SIDE ENTRANCE	6'-0"x 7'-0" (DBL DR)	2"	D	2	LHR/RHR	NEW ALUMINUM ENTRANCE + STOREFRONT SYSTEM
05	SERVICE DOOR / UTILITY 2	3'-0"x 7'-0"	1¾"	A	3	RHR	NEW EXTERIOR HM DOOR & FRAME
06	UTILITY 2 (from BREAK)	3'-0"x 7'-0"	1¾"	F	6	LH	NEW INTERIOR SCWD DOOR & FRAME
07	CUSTODIAL	3'-0"x 7'-0"	1¾"	F	6	RHR	NEW INTERIOR SCWD DOOR & FRAME
08	TOILET 1	3'-0"x 7'-0"	1¾"	F	7	LH	NEW INTERIOR SCWD DOOR & FRAME
09	TOILET 2	3'-0"x 7'-0"	1¾"	F	7	RH	NEW INTERIOR SCWD DOOR & FRAME
10	TOILET 3	3'-0"x 7'-0"	1¾"	F	7	LH	NEW INTERIOR SCWD DOOR & FRAME
11	TOILET 4	3'-0"x 7'-0"	1¾"	F	7	RH	NEW INTERIOR SCWD DOOR & FRAME
12	TOILET 5	3'-0"x 7'-0"	1¾"	F	7	LH	NEW INTERIOR SCWD DOOR & FRAME
13	TOILET 6	3'-0"x 7'-0"	1¾"	F	7	RH	NEW INTERIOR SCWD DOOR & FRAME
14	TOILET 7	3'-0"x 7'-0"	1¾"	F	7	LH	NEW INTERIOR SCWD DOOR & FRAME
15	TOILET 8	3'-0"x 7'-0"	1¾"	F	7	RH	NEW INTERIOR SCWD DOOR & FRAME
16	CUSTODIAL	3'-0"x 7'-0"	1¾"	F	6	LHR	NEW INTERIOR SCWD DOOR & FRAME
17	LANDLORD / UTILITY	3'-0"x 7'-0"	1¾"	A	3	LHR	NEW EXTERIOR HM DOOR & FRAME
18	ENTRANCE	3'-0"x 7'-0"	2"	C	1	RHR	NEW INTERIOR SCWD DOOR & FRAME
19	OVERHEAD SECTIONAL	9'-0"x 8'-0"	2"	G	9	-	NEW EXTERIOR ALUM & GLASS OVHD DOOR
20	EXIT / SERVICE	3'-8"x 7'-0"	1¾"	B	4	RHR	REPLACEMENT EXTERIOR HM DOOR in EXISTING FRAME

F8 DOOR SCHEDULE

SET 1 STOREFRONT ENTRANCE (SGL DR)
THIS HARDWARE SET PROVIDED by STOREFRONT CONTRACTOR
1 ½ PR. OFFSET PIVOT HINGES
1 EA. RIM PANIC DEVICE w/ ENTRANCE LOCKSET (DOGGABLE)
1 EA. CLOSER
1 EA. ACCESSIBLE THRESHOLD (½" MAX.)
1 EA. PERIMETER STOP w/ WEATHERSEAL (FULL HEAD & JAMBS)
1 EA. DOOR SWEEP
1 EA. SIGN DECAL ABOVE DOOR (SEE NOTES)

SET 2 STOREFRONT ENTRANCE (DBL DR)
THIS HARDWARE SET PROVIDED by STOREFRONT CONTRACTOR
3 PR. OFFSET PIVOT HINGES
2 EA. PANIC DEVICE w/ ENTRANCE LOCKSET & INTERNAL RODS (DOGGABLE)
2 EA. CLOSER
4 EA. DUST-PROOF STRIKE (TOP & BOTTOM)
1 EA. ACCESSIBLE THRESHOLD (½" MAX.)
1 EA. PERIMETER STOP w/ WEATHERSEAL (FULL HEAD & JAMBS)
1 EA. DOOR SWEEP
1 EA. SIGN DECAL ABOVE DOOR (SEE NOTES)

SET 3 SERVICE DOORS (SINGLE)
1 ½ PR. HVY DUTY BUTT HINGES
1 EA. STOREROOM LOCKSET
1 EA. CLOSER (PARALLEL ARM)
1 EA. LATCH GUARD
1 EA. 8"x34" KICKPLATE (INTERIOR)
1 EA. PERIMETER WEATHERSEAL
1 EA. DOOR SWEEP
1 EA. HEAD FLASHING
1 EA. 170° DOOR VIEWER (at 54" AFF)
1 EA. ½" ACCESSIBLE THRESHOLD

SET 4 SERVICE DOORS (SINGLE - PANIC)
1 ½ PR. HVY DUTY BUTT HINGES
1 EA. RIM PANIC DEVICE w/ STOREROOM LOCKSET
1 EA. LATCH GUARD
1 EA. 8"x34" KICKPLATE (INTERIOR)
1 EA. PERIMETER WEATHERSEAL
1 EA. DOOR SWEEP
1 EA. HEAD FLASHING
1 EA. 170° DOOR VIEWER (at 54" AFF)
1 EA. ½" ACCESSIBLE THRESHOLD
1 EA. SIGN DECAL ABOVE DOOR (SEE NOTES)

SET 5 UTILITY DOORS (DBL DR)
3 PR. HVY DUTY BUTT HINGES
1 EA. STOREROOM LOCKSET
1 PR. FLUSH BOLTS (on INACTIVE LEAF)
2 EA. 8"x34" KICKPLATE (INTERIOR)
2 EA. DOOR SWEEP
1 EA. ASTRAGAL SEAL
6 EA. DOOR SILENCERS

SET 6 UTILITY ROOM DOORS (SINGLE)
1 ½ PR. HVY DUTY BUTT HINGES
1 EA. OFFICE LOCKSET
1 EA. 8"x34" KICKPLATE (INTERIOR)
1 EA. DOOR SWEEP
3 EA. DOOR SILENCERS

SET 7 TOILET ROOM DOORS (INSWING)
1 ½ PR. HVY DUTY BUTT HINGES
1 EA. PRIVACY LOCKSET
1 EA. WALL STOP
3 EA. DOOR SILENCERS

~~**SET 8 TOILET ROOM DOORS (OUTSWING)**~~
~~1 ½ PR. HVY DUTY BUTT HINGES~~
~~1 EA. PRIVACY LOCKSET~~
~~1 EA. 105° CLOSER (PUSH SIDE)~~
~~3 EA. DOOR SILENCERS~~

GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ITS VENDORS (i.e. DOOR, FRAME & HARDWARE VENDORS) TO PREPARE THEIR OWN DOOR & HARDWARE SCHEDULE(S) BASED ON THE DATA PROVIDED IN THESE CONSTRUCTION DOCUMENTS (i.e. DRAWINGS & PROJECT MANUAL).
2. ALL GLAZING IN DOORS AND SIDELITES SHALL BE CLEAR, TEMPERED SAFETY GLAZING.
3. ALL NEW DOORS / OPENINGS SHALL BE 7'-0" (84") AFF UNLESS NOTED OTHERWISE.
4. ALL EXPOSED SURFACES ON NEW WOOD DOORS & FRAMES SHALL BE FINISHED (i.e. PAINTED or STAINED).
5. AT ALL HOLLOW METAL FRAMES SET IN MASONRY WALLS, PROVIDE WATERPROOFING MASTIC COATING ON FRAME INTERIOR AND GROUT JAMBS SOLID, TYP.
6. COORDINATE WITH PREVENT SECURITY & TECHNOLOGY AND THE ELECTRICAL DWGS FOR WIRING REQUIREMENTS AT CARD READERS, WIRELESS LOCKS, AND AUTOMATIC OPENERS.

HARDWARE NOTES

7. ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE AND EFFORT.
8. NEW WOOD & METAL DOOR HARDWARES SHALL HAVE "BRUSHED CHROME" (626) FINISH UNLESS NOTED OTHERWISE.
9. ALL DOORS WITHOUT ELECTRONIC ACCESS CONTROL SHALL RECEIVE LOCKSETS OR DEADBOLTS WITH SMALL FORMAT INTERCHANGEABLE CORES.
10. ALL DOORS SHALL BE PROVIDED WITH LEVER HANDLES UNLESS NOTED OTHERWISE.
11. BASIS OF DESIGN: PROVIDE 'DORMA' "CL/CK 700" GRADE 2 CYLINDRICAL LOCKSETS w/ 626 SATIN FINISH or APPROVED EQUAL by 'SCHLAGE' ("ALX") or 'SARGENT' ("6500 LINE").

ALUMINUM STOREFRONT SYSTEMS NOTES

12. STOREFRONT ENTRANCE HARDWARE SHALL MATCH THE FINISH OF THE STOREFRONT.
13. *DEADLOCK LEVER w/ INDICATOR TO BE ADAMS RITE '4550 MS" w/ 'MS1580S" DEADLOCK "STRAIGHT BOLT" at SINGLE DOORS, and '1870" SERIES FLUSHBOLT (HEAD) at DOUBLE DOOR SET*
14. *PROVIDE SIGN DECAL on DOOR HEAD RAIL per OBC 1010.1.9.3(2) STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED"*
15. *ADAMS RITE '8600' SERIES 2-POINT CONCEALED ROD EXIT DEVICES IS AN APPROVED ALTERNATE FOR THE DEADLOCK LEVER, DEADLOCK BOLT and SIGN DECAL AT ALL ALUMINUM ENTRANCE LOCATIONS.*
16. *EQUIVALENT HARDWARE FROM OTHER MANUFACTURERS MAY BE SUBMITTED AS A SUBSTITUTE*

GENERAL NOTES

1. STOREFRONT DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION
2. NEW STOREFRONT SYSTEMS SHALL BE 4 1/2", DARK BRONZE, ANODIZED, ALUMINUM W/ CENTER SET, INSULATED, TEMPERED, LOW-E, CLEAR GLAZING -TYP

T. TEMPERED SAFETY GLAZING

GENERAL DOOR & HARDWARE NOTES:

A. INTERIOR DOORS to be 3'-0"w. x 7'-0"h. x 1¾" SOLID CORE WOOD DOORS (FLUSH) ... MASONITE or EQUAL. SLABS to be PRE-PRIMED DOOR w/ PREPPED HINGE MORTISES & LOCKSET CORED. PAINT FINISH IN FIELD.

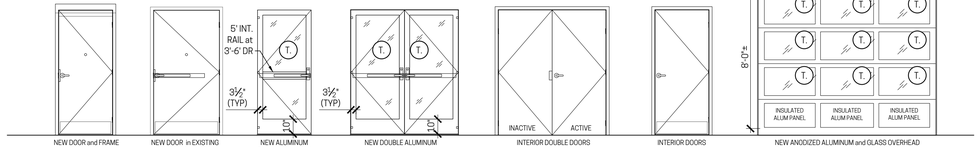
B. FRAMES to be PREFINISHED "KNOCK DOWN" (KD) METAL DOOR FRAMES by "TIMELY" (ADJUSTABLE "A-SERIES" SINGLE FRAMES) or EQUAL.

C. DOOR LOCKSETS: PROVIDE 'DORMA' "CL/CK 700" GRADE 2 CYLINDRICAL LOCKSETS w/ 626 SATIN FINISH or APPROVED EQUAL by 'SCHLAGE' ("ALX"), 'SARGENT' ("6500 LINE"), or OTHER MFR EQUIVALENT SUBMITTED via SUBSTITUTE by CONTRACTOR

D. ALL WOOD DOORS to be PAINTED w/ MOLD & MILDEW RESISTANT PAINT - SATIN FINISH

E. EXTERIOR DOORS to be 3'-0"w. x 7'-0"h. x 1¾" 18ga. INSULATED FLUSH HM DOORS (PAINTED) set in a 16ga. HM FRAME, or SHALL BE REPLACEMENTS SIZED TO FIT WITHIN EXISTING OPENING

C8 HARDWARE DATA



NEW DOOR and FRAME in NEW OPG in EXISTING CMU — **A** FLUSH INSULATED HM DOOR & 2" HM FRAMING

NEW DOOR in EXISTING FRAME / CMU OPG *(PATCH-REPAIR FRAME)* — **B** FLUSH INSULATED HM DOOR & 2" HM FRAMING (4" HD)

NEW ALUMINUM ENTRANCE in NEW STOREFRONT OPG — **C** MEDIUM STILE ALUMINUM ENTRANCE SYSTEM

NEW DOUBLE ALUMINUM ENTRANCE in NEW STOREFRONT OPG — **D** DBL FLUSH INSULATED HM DOOR & 2" HM FRAMING

INTERIOR DOUBLE DOORS — **E** FLUSH SCWD w/ KNOCK DOWN (KD) HM FRAMING

INTERIOR DOORS — **F** FLUSH SCWD w/ KNOCK DOWN (KD) HM FRAMING

NEW ANODIZED ALUMINUM and GLASS OVERHEAD DOOR in EXISTING CMU OVERHEAD DOOR OPENING — **G** OVERHEAD SECTIONAL DOOR w/ GLAZING

A8 DOOR AND FRAME DATA

1/4" = 1'- 0"

T. TEMPERED SAFETY GLAZING

FIELD VERIFY ALL EXISTING OPENINGS RECEIVEING NEW DOORS & FRAMES

RENOVATIONS / ALTERATIONS for:

934 E. McMILLAN ST.

CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD
NR PROJECT NO: 23-011

No.	Issuances / Revisions / Submissions	Date
	PRICING & PERMIT	09.01.2023

NEW REPUBLIC architecture

GRAHAM MICHAEL KALBLI
LICENSE #13499
EXPIRATION DATE 12/31/23
STATE OF OHIO GRAHAM MICHAEL KALBLI 13499 REGISTERED ARCHITECT

Drawing Title
OPENINGS DATA & DOOR SCHEDULE

Document No.
A601

PLOTTED: Friday, September 1, 2023 4:37:20 PM

GENERAL STRUCTURAL NOTES

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT ADVANTAGE GROUP ENGINEERS, INC. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

OHIO BUILDING CODE – 2017, BASED ON 2015 IBC

CLASSIFICATION OF THE BUILDING STRUCTURE:
RISK CATEGORY III, TABLE 1604.5

DESIGN LOADS

1. ROOF LOAD:
   - A. MINIMUM LIVE LOAD OR SNOW LOAD: 20 PSF*
   - B. ROOF MEMBRANE: 1 PSF
   - C. INSULATION: 3 PSF
   - D. METAL DECK: 2 PSF
   - E. JOIST FRAMING LOAD: 3 PSF
   - F. CEILING (5/8" DRYWALL): 3 PSF
   - G. SPRINKLERS: 3 PSF
   - H. DUCTS, LIGHTS, MISC. MECHANICAL: 2 PSF

*MINIMUM LIVE / SNOW LOAD GOVERNED BY MINIMUM SNOW LOAD, $P_m = I_s * P_g$

2. SNOW LOAD:
   - A. GROUND SNOW LOAD, P_g = 20 PSF.
   - B. FLAT ROOF SNOW LOAD, P_f = 15.4 PSF MODIFIED BY APPLICABLE BUILDING COEFFICIENTS.
   - C. MINIMUM ROOF SNOW LOAD, P_m = 22 PSF.
   - D. SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
   - E. SNOW EXPOSURE FACTOR, C_e = 1.0
   - F. THERMAL FACTOR, C_t = 1.0
   - G. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.
3. WIND LOAD:
   - A. MAIN WIND FORCE RESISTING SYSTEM: 120 MPH PER ASCE 7-10 (3-SECOND GUST - LOAD AND RESISTANCE FACTOR DESIGN).
   - B. WIND EXPOSURE: B
   - C. BASIC WIND VELOCITY PRESSURE, q_h= 18.0 PSF
   - D. INTERNAL GUST PRESSURE COEFFICIENT, GCp = 0.18 (ENCLOSED BUILDING).
4. SEISMIC LOAD:
   - A. COUNTY: HAMILTON
   - B. BUILDING SITE CLASSIFICATION: D (ASSUMED)
   - C. SPECTRAL RESPONSE ACCELERATION, S_S = 14.4
     - a. S_{DS} = 15.4
   - D. SPECTRAL RESPONSE ACCELERATION, S_1 = 7.8
     - a. S_{D1} = 12.5
   - E. SEISMIC DESIGN CATEGORY, SDC = B
   - F. SEISMIC IMPORTANCE FACTOR, I_e = 1.25
   - G. SEISMIC FORCE RESISTING SYSTEM: A.11 (TABLE 12.2-1)
   - H. RESPONSE MODIFICATION FACTOR, R = 1.5 (TABLE 12.2-1 ASCE 7)
   - I. ANALYSIS PROCEDURE: ELFP
   - J. SEISMIC RESPONSE COEFFICIENT, C_s = 0.104 (EQUATION 12.8-2)
   - K. DESIGN BASE SHEAR, V = C_s * W (MAXIMUM)

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17 SECTION 1704.1 OF THE REFERENCED BUILDING CODE, A SPECIAL INSPECTION IS REQUIRED FOR THE PROPOSED BUILDING CONSTRUCTION. SPECIAL INSPECTION INVOLVES THE VERIFICATION OF COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND OR PLACEMENT OF COMPONENTS WITH THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTION IS PART OF THE PERMIT APPLICATION PROCESS FUNDED BY THE OWNER OR THE OWNER'S AGENT.

A STATEMENT OF SPECIAL INSPECTION LISTING THE REQUIREMENTS ALONG WITH A SCHEDULE OF TESTING, SUBMITTAL REVIEWS, AND FIELD OBSERVATION REQUIREMENTS HAS BEEN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 106.1 OF THE BUILDING CODE. THIS STATEMENT INCLUDES A COMPLETE LIST OF MATERIAL AND ACTIVITY REQUIRING INSPECTION. IT IS THE RESPONSIBILITY OF ALL PARTIES TO BECOME FAMILIAR WITH THIS REQUIREMENT AND UNDERSTAND THE GUIDELINES AND REQUIREMENTS OF EACH PARTY INVOLVED WITH THE CONSTRUCTION. A COPY OF THE STATEMENT OF SPECIAL INSPECTION IS AVAILABLE UPON REQUEST. THE SPECIAL INSPECTOR COORDINATOR SHALL COORDINATE WITH THE OWNER, CONTRACTOR AND THE DESIGN PROFESSIONALS AND SCHEDULE THE INSPECTIONS ACCORDINGLY.

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

1. CONTRACTOR SHALL SUBMIT ALL SUBSTITUTIONS FOR APPROVAL PRIOR TO CONSTRUCTION WITH THE FOLLOWING INFORMATION:
   - A. THE SCOPE, EXTENT, AND ALL LOCATIONS AFFECTED BY THE PROPOSED SUBSTITUTION.
   - B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED.
   - C. THE REASON FOR THE PROPOSED CHANGE.
   - D. COST SAVINGS AND/OR IMPACT ON THE SCHEDULE
   - E. IMPACT ON ANY GUARANTEES OR WARRANTIES ASSOCIATED WITH THE PRODUCT OR SYSTEM.
   - F. COORDINATION REQUIRED WITH OTHER TRADES OR ADJACENT MATERIALS.
   - G. ANY AND ALL DEVIATIONS FROM THE SPECIFIED REQUIREMENTS.
2. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR IN A TIMELY MANNER TO PROVIDE AN ADEQUATE AMOUNT OF TIME FOR REVIEW.
   - A. ALL SUBMITTALS MUST BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR REVIEW. ANY SHOP DRAWINGS RECEIVED DO NOT BEAR THE STAMP OF THE GENERAL CONTRACTOR AS WELL AS CLEAR EVIDENCE THAT THE SUBMITTAL HAS BEEN REVIEWED WILL BE REJECTED WITHOUT REVIEW.
   - B. REVIEW BY STRUCTURAL ENGINEER OF RECORD WILL BE FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW DOES NOT IN ANYWAY RELIEVE THE CONTRACTOR AND/OR THE CONTRACTOR'S SUBCONTRACTORS FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM THE CONTRACT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, PROPER FIT, QUALITIES OF THE MATERIALS, AND COORDINATION WITH OTHER TRADES AND SUPPLIERS.
   - C. IF CHANGES ARE MADE TO A PREVIOUSLY REVIEWED SUBMITTAL, DENOTE ALL REVISED AREAS WITH REVISION CLOUD AND TAGS.
   - D. STRUCTURAL SUBMITTAL REQUIREMENTS:

Submittal/Shop Drawing	Submittal	Calculations	PE/SE Seal & Signature
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a
Masonry Block, Mortar, and Grout Spec & Strength	For Review	N/a	N/a
Structural Steel	For Review	N/a	N/a

- *For Review* denotes the contractor must submit to the design team for review. The contractor shall not fabricate or install until all design team comments have been resolved in writing.
- *For Record* denotes the contractor must submit to the design team for record. The contractor's engineer is responsible for all loading and coordination of loads to be resisted by the building's structural elements. Any load resisted by the building's structural elements must be approved by the EOR.
- *N/a* denotes not applicable.

3. REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.
   - A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI.
   - B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

CONSTRUCTION AND SAFETY

1. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. THE CONTRACTOR SHALL ONLY USE STRUCTURAL PLANS ISSUED AS "FOR CONSTRUCTION" OR ISSUES THEREAFTER. PRIOR ISSUES SHALL ONLY BE USED FOR PERMITTING OR BIDDING PURPOSES.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.
6. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

MISCELLANEOUS STRUCTURAL NOTES

1. THESE STRUCTURAL DRAWINGS DEPICT A STRUCTURAL SYSTEM AND THE MAJOR COMPONENTS OF THAT SYSTEM. MINOR ITEMS, INCLUDING BUT NOT LIMITED TO, POURSTOPS, DECK SUPPORT ANGLES, FRAMES AT FLOOR AND ROOF DECK OPENINGS, CFS AT ARCHITECTURAL FEATURES, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AS NEEDED TO PROVIDE A COMPLETE SYSTEM.
2. WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS. CONTRACTORS, DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC. BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND.

FOUNDATIONS

1. SOIL CONDITIONS:
   - A. PER THE CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL CONSULTANT TO VERIFY THE DESIGN ASSUMPTIONS OF NATIVE UNDISTURBED SOILS PRIOR TO THE FOUNDATION INSTALLATION. THE COST FOR THIS DOCUMENTATION SHALL BE IDENTIFIED AS A SEPARATE ITEM ON THE CONTRACTOR'S BID. THE CONTRACTOR SHALL SUBMIT COPIES OF ALL FIELD-TESTING DOCUMENTATION TO ADVANTAGE GROUP ENGINEERS.
2. THE BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
3. FOOTINGS AND GRADE BEAMS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
4. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2000 PSF BELOW STRIP FOOTINGS AND 2000 PSF BELOW ISOLATED COLUMN FOOTINGS.
5. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
6. COMPACTION:
   - A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT.
   - B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
7. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO THE PLACEMENT OF FILL MATERIAL OR SLAB.
8. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
2. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING".
3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO THE NOMOGRAPH OF THIS REFERENCE TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES.
5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
6. MATERIALS (ALSO SEE CONCRETE MIX SCHEDULE):
   - A. REINFORCING STEEL: ASTM A615 OR ASTM 996 (AXLE ONLY) 60 KSI YIELD DEFORMED BARS AND ASTM A1064 MESH, FLAT SHEETS ONLY.
   - B. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25% MAXIMUM.
   - C. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
   - D. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494.
   - E. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
7. CONCRETE MIX SCHEDULE:

Application	f'_c @ 28 days (psi)	Air Content[1]	Max w/c ratio[2]	Max Agg. Size[1] (in)	F Class	S Class	W Class	C Class
Footings & Drilled Piers	3000	N/a	0.55	3/4	F0	S0	W0	C0
Interior Floor Slab on Grade[3]	4000	N/a	0.5	3/4	F0	S0	W0	C0
Exterior Flatwork (Plain Concrete)	4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1

[1] - Where 3/8" maximum aggregate is preferred, adjust air entrainment to 7.5% ± 1.5% (if required).
[2] - Where air entrainment is not required by design, the contractor/supplier may choose to include air entrainment to improve placement or finish characteristics. Air entrainment is not permitted in normal weight concrete to receive a hard trowel finish and entrapped air shall not exceed 3%.
[3] - f'_c = 1800 psi @ 3 days.
[4] - Normal weight aggregate with 8%-18% retained on each sieve. Fly ash not permitted. f'_c = 1800 psi @ 3 days.
[5] - Cortec MCI required.
[6] - f'_c = 3000 psi @ 7 days.
[7] - Entrained air is not required provided walls are painted and exterior paint is maintained by the owner.

8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.
9. ALL REINFORCING BARS, EMBEDS, AND ANCHOR RODS SHALL BE PLACED WITHIN THE REQUIRED TOLERANCES AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. WORKING REINFORCING BARS, EMBEDS, AND ANCHOR RODS INTO WET CONCRETE (KNOWN AS "WET STICKING") IS PROHIBITED. IF NECESSARY, CONTRACTOR MAY PROVIDE ADDITIONAL REINFORCING BARS TO SECURELY TIE REINFORCING BARS, EMBEDS, AND ANCHOR RODS.
10. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
11. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.
12. MACHINE TROWEL FINISH FLOOR SLAB AND CURE USING A METHOD RECOMMENDED BY ACI 302.1R (GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION) INCLUDING WATER CURING, WET COVERING, APPLICATION OF IMPERVIOUS SHEETING OR APPLICATION OF "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTM C-1315. FOR APPLICATIONS EXPOSED TO SUNLIGHT USE CLASS A (NON-YELLOWING) CURING COMPOUND. COORDINATE CURING METHOD WITH ARCHITECTURAL FLOOR FINISHES THAT REQUIRE ADHESION TO THE SLAB (SUCH AS TILE) TO INSURE PROPER BOND.
13. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117:
    F_f (FLATNESS) / F_l (LEVELNESS)
    - A. SPECIFIED OVERALL VALUE: 25 / 20
    - B. MINIMUM LOCAL VALUE: 18 / 13
    - C. MAXIMUM GAP UNDER 10 FT. UNLEVELED STRAIGHTEDGE = 1/4".

EXPANSION AND EPOXY ADHESIVE ANCHORS

1. EXPANSION ANCHORS:
   - A. EXPANSION ANCHORS SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
2. EPOXY ADHESIVE ANCHORS:
   - A. EPOXY ADHESIVE SHALL BE HIT-HY 200 V3 EPOXY ADHESIVE MANUFACTURED BY THE HILTI COMPANY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
   - B. THREADED RODS SHALL BE ASTM A36. SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
   - C. CONDUCT JOB-SITE TRAINING OF ALL CONTRACTOR'S PERSONNEL INSTALLING THIS PRODUCT FOR SAFE AND PROPER INSTALLATION, HANDLING, AND STORAGE OF THE EPOXY SYSTEM.

MASONRY

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT STRENGTH METHOD.
   - A. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY USED FOR DESIGN: f'm = 2000 PSI AT 28 DAYS
3. SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:
   - A. COLD WEATHER CONSTRUCTION PROCEDURE.
   - B. HOT WEATHER CONSTRUCTION PROCEDURE.
   - C. MANUFACTURERS LITERATURE FOR: HORIZONTAL JOINT REINFORCING, REINFORCING STEEL POSITIONERS, MOVEMENT JOINT MATERIALS, TIES AND ANCHORS.
   - D. SHOP DRAWINGS SHOWING: DETAILS OF STEEL REINFORCING, AND LINTELS.
   - E. MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR SPECIFIED MASONRY UNIT, AND REINFORCING STEEL.
   - F. PROPORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF MORTAR AND GROUT.
4. MATERIALS:
   - A. CONCRETE MASONRY UNITS: ASTM C90 TYPE I BELOW GRADE: NORMAL WEIGHT AGGREGATE PER ASTM C33.
     - a. MINIMUM UNIT COMPRESSIVE STRENGTH, f'_m = 2000 PSI.
   - B. CONCRETE MASONRY UNITS: ASTM C90 TYPE I ABOVE GRADE: LIGHTWEIGHT AGGREGATE PER ASTM C331 OR NORMAL WEIGHT.
     - a. MINIMUM UNIT COMPRESSIVE STRENGTH, f'_m = 2000 PSI.
   - C. FACING BRICK: ASTM C216 GRADE SW. COLOR AND SIZE AS NOTED ON THE ARCHITECTURAL DRAWINGS.
   - D. MORTAR: ASTM C270 TYPE S, f'_m = 1800 PSI AT 28 DAYS.
     - a. PORTLAND CEMENT-LIME MORTAR:
       - i. PORTLAND CEMENT: TYPE I AND HYDRATED LIME
     - b. MASONRY CEMENT MORTAR: AT CONTRACTOR'S OPTION.
   - E. GROUT: ASTM C476. f'_c = 2000 PSI, SLUMP 8" TO 10".
   - F. REINFORCING STEEL: ASTM A615, 60 KSI YIELD.
   - G. HORIZONTAL JOINT REINFORCING FOR CONCRETE MASONRY AND BRICK VENEER CAVITY WALL: 9 GAUGE LADDER TYPE PLACED IN CONCRETE MASONRY WITH PROJECTING EYES FOR 3/16" DIAMETER DOUBLE WIRE RECTANGULAR ADJUSTABLE PINTLE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. THIS TYPE OF JOINT REINFORCING ALLOWS THE VENEER TO BE PLACED AFTER INTERIOR WYTHE IS PLACED. LADDER TYPE TRI-ROD MAY BE USED IF BOTH WYTHES ARE LAID SIMULTANEOUSLY. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
5. MORTAR PROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO MIX IN FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.
6. BAR LAPS ARE AS FOLLOWS UNLESS OTHERWISE NOTED. MINIMUM BAR LAPS SHALL NOT BE LESS THAN 48 BAR DIAMETERS.
   - A. #4 BAR: 24" MINIMUM LAP
   - B. #5 BAR: 30" MINIMUM LAP
   - C. #6 BAR: 36" MINIMUM LAP
   - D. IN DOUBLE REINFORCED CELLS, STAGGER BAR SPLICES ACCORDINGLY SO THAT LAPS DO NOT OCCUR WITHIN THE SAME SECTION ALONG THE HEIGHT OF THE WALL.
7. GROUT ALL CELLS BELOW GRADE SOLID.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.
2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1).
3. MATERIALS:
   - A. ROLLED WIDE FLANGE SHAPES UNLESS NOTED: ASTM A992 DUAL GRADE, F_y = 50 KSI.
   - B. ROLLED SHAPES AND PLATES UNLESS NOTED: ASTM A36.
   - C. TUBULAR SHAPES: ASTM A500 GRADE C.
   - D. PIPE SHAPES: ASTM A53, TYPES E OR S GRADE B.
   - E. BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED.
   - F. ANCHOR RODS: ASTM F1554 GRADE 36 KSI MATERIAL FULLY THREADED RODS HAVING A NUT TACK WELDED IN PLACE ON BOTTOM. MINIMUM EMBEDMENT AS NOTED ON THE DRAWINGS.
   - G. FIELD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
   - H. NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS.
4. PAINT AND PROTECTION:
   - A. STRUCTURAL STEEL UNLESS NOTED: FABRICATOR'S STANDARD PRIME COAT. TOUCH UP AFTER ERECTION.
   - B. PROVIDE MINIMUM 3" CONCRETE COVER FOR ALL STEEL BELOW GRADE.
   - C. LINTELS SUPPORTING EXTERIOR MASONRY WYTHES AND MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURES: HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. TOUCH UP AFTER ERECTION WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOP-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 8 MILS.
5. CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENT SHALL BE APPROVED PRIOR TO SUBMITTING ANY SHOP SUBMITTALS. SUCH DRAWINGS WILL BE REJECTED.
6. CONTRACTOR SHALL SUBMIT MISCELLANEOUS STEEL SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL INCLUDE STAIRS AND GUARDRAILS. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER WHO IS PROVIDING SERVICES AS A SPECIALTY ENGINEER.

METAL DECKING

1. THE DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECKING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
2. MATERIALS:
   - A. DECK FOR ROOF: 22 GAUGE x1½" WIDE RIB STYLE, PAINTED WITH STANDARD SHOP COAT.
3. CONNECT 1½" AND 3" ROOF DECK TO SUPPORTS WITH 5/8" ROUND PUDDLE WELDS OR HILTI FASTENERS (USE X-HSN FASTENERS FOR 3/8" THICK OR THINNER STEEL AND X-ENP-19 POWDER-ACTUATED FASTENERS WHERE BASE STEEL THICKNESS IS GREATER THAN OR EQUAL TO 1/4"). FASTEN 1½" DECK AT 10" ON CENTER AT SUPPORTS FOR 30" WIDE DECK AND 12" ON CENTER AT SUPPORTS FOR 36" WIDE DECK AND AT 6" ON CENTER AT ENDS OF SHEETS AND PERIMETER. FOR 3" DECK, USE 8" ON CENTER PATTERN. SCREW SIDE LAPS AT 3'-0" MAXIMUM SPACING WITH #10 TEK SCREWS OR HILTI SLC.
4. METAL DECK SHALL BE PROVIDED TO RUN CONTINUOUS OVER AT LEAST 3 SPANS EXCEPT AS NOTED OTHERWISE.
5. CONNECT METAL DECK TO STRUCTURAL MEMBERS, INCLUDING PERIMETER ANGLES.
6. OPENINGS UP TO 6" SQUARE MAY BE CUT THROUGH METAL DECK WITHOUT REINFORCING. OPENINGS BETWEEN 6" AND 18" SHALL BE REINFORCED WITH STEEL ANGLES 2x2x1/4 PUDDLE WELDED TO THE METAL DECK FLUTES AND ORIENTED PERPENDICULAR TO THE FLUTES. STEEL REINFORCING ANGLE SHALL EXTEND A MINIMUM OF 2 FLUTES EACH SIDE OF THE OPENING.
7. WELDING OF METAL DECK SHALL BE IN ACCORDANCE WITH AWS D1.3.

DRAWING INDEX

TYPICAL ABBREVIATION LIST

AEF	= Alternate Each Face	LG	= Long
ARCH	= Architect	LL	= Live Load
BLDG	= Building	LLH	= Long Leg Horizontal
BM	= Beam	LLV	= Long Leg Vertical
B/FTG	= Bottom of Footing	LSL	= Laminated Strand Lumber
B/DECK	= Bottom of Deck	LVL	= Laminated Veneer Lumber
BRG	= Bearing	MAX	= Maximum
CIP	= Cast In Place	MECH	= Mechanical
CJ	= Control Joint	MIN	= Minimum
CL	= Center Line	ML	= Micro Laminated
CLR	= Clear	NS	= Non Shrink
CMU	= Concrete Masonry Unit	NTS	= Not to Scale
CONC	= Concrete	o.c.	= On Center
CONT	= Continuous	PAF	= Powder Actuated Fastener
DL	= Dead Load	PC	= Piece
DWG	= Drawings	PEMB	= Pre-Engineered Metal Building
EJ	= Expansion Joint	PL	= Plate
EL	= Elevation	psf	= Pounds Per Square Foot
EMBD	= Embedment	RD	= Roof Drain
ENGR	= Engineer	REINF	= Reinforcement
EQ	= Equal Distance	RTU	= Roof Top Unit
EW	= Each Way	SDS	= Self Drilling Screw
EF	= Each Face	SF	= Step Footing
EX	= Existing	SW	= Step Wall
EXT	= Exterior	SB	= Solid Bearing
FTG	= Footing	SCH	= Schedule
FND	= Foundation	SIM	= Similar
ga	= Gauge	STL	= Steel
GALV	= Galvanized	SRD	= Secondary Roof Drain
GC	= General Contractor	T/FTG	= Top Of Footing
GRAN	= Granular	TS	= Tube Steel
HORZ	= Horizontal	TYP	= Typical
HD	= Hold Down Anchor	UNO	= Unless Noted Otherwise
HSS	= Hollow Structural Section	VERT	= Vertical
k	= Kips	WWF	= Welded Wire Fabic
ksf	= Kips Per Square Foot	WF	= Wide Flange
lbs	= Pounds	WP	= Work Point

NOT ALL ABBREVIATIONS APPLY. INCLUDED FOR REFERENCE ONLY.

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CINCINNATI, OH 45206

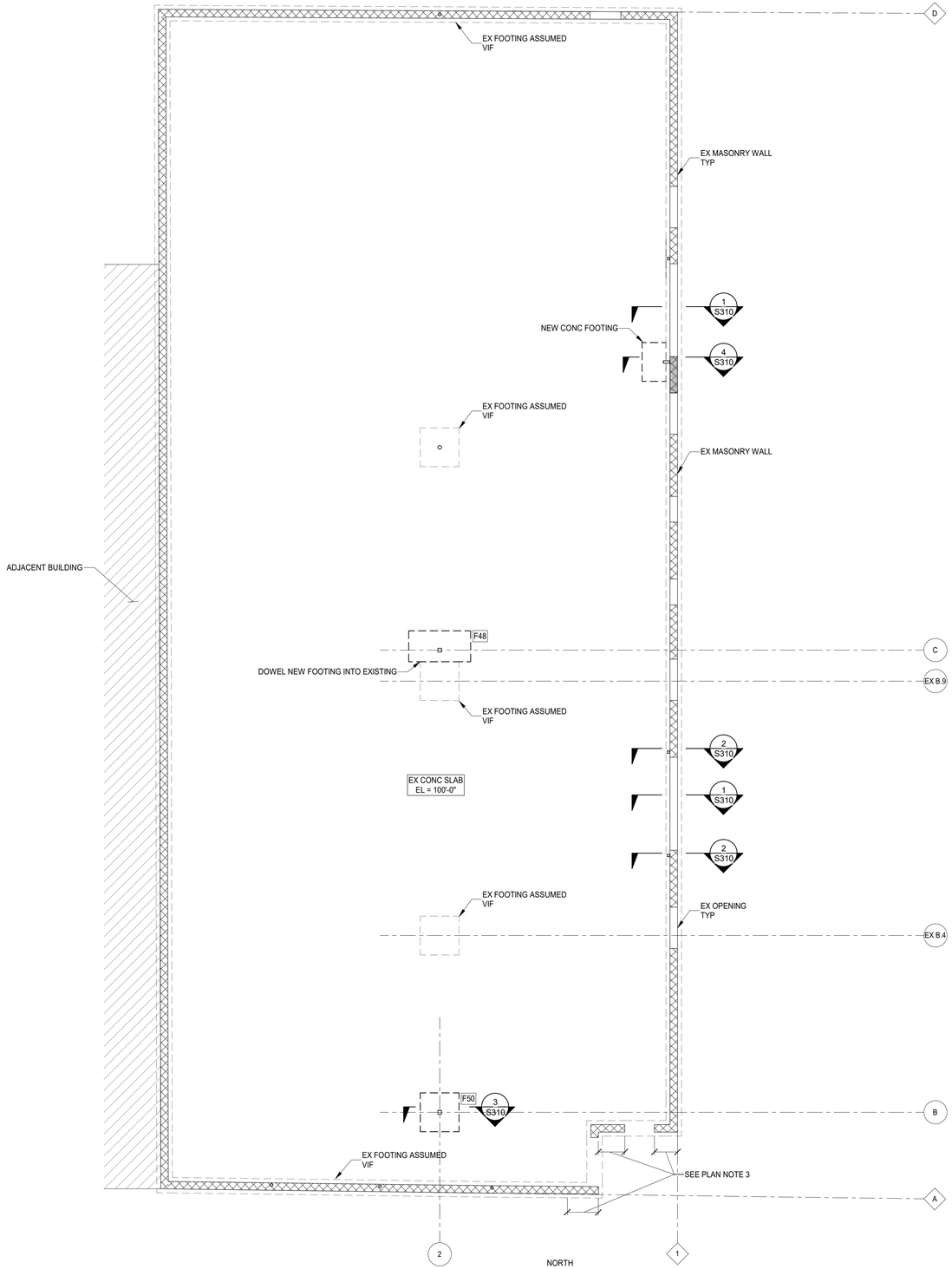
STATE OF OHIO
KYLE C. JENKINS
75308
REGISTERED
PROFESSIONAL ENGINEER

# Revision/Submission	Date
PRICING & PERMIT	09.01.23

Project Number: 23140.02
Design Team: KCJ / OCP

GENERAL STRUCTURAL NOTES

S001



FOUNDATION PLAN
SCALE 1/8" = 1'-0"

NORTH

FOOTING SCHEDULE		
MARK	DESCRIPTION	T/FTG
F48	4'-0"x8'-0"x1'-6" CONC FOOTING w/(4) #6's LONG WAY & (8) #5's SHORT WAY BOTTOM	SEE PLAN
F50	5'-0"x5'-0"x1'-0" CONC FOOTING w/(5) #5's EACH WAY BOTTOM	SEE PLAN

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION & CONSTRUCTION. NOTIFY ADVANTAGE OF ANY DISCREPANCIES.
3. TIE EXISTING BRICK VENEER TO CMU WITH HELIFIX TIE THRU BRICK & THRU FACE OF CMU. SPACE @ 16"o.c. VERTICAL & 16"o.c. HORIZONTAL. REBUILD BRICK THAT IS LOOSE & PROVIDE TIES.

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9/1/23

#	Revision/Submission	Date
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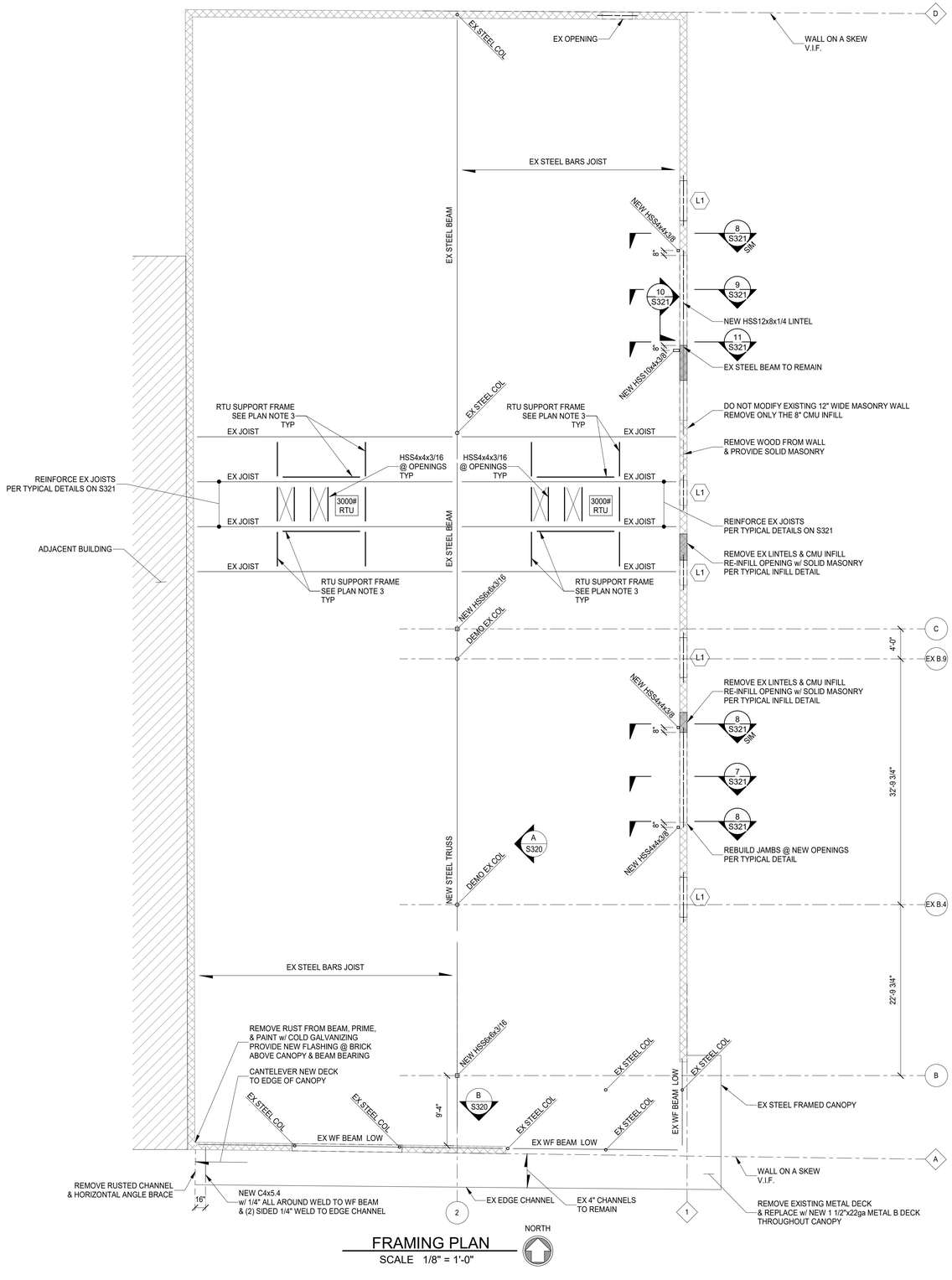
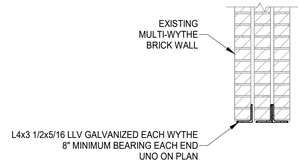
Project Number: 23140.02
Design Team: KCJ / OCP

FOUNDATION PLAN

S110



FRAMING PLAN
SCALE 1/8" = 1'-0"



* CONTRACTOR TO NOTIFY ENGINEER IF PROPOSED OPENING IS IN A WALL GREATER THAN (3) WYTHES THICK

NEW LINTEL L1 DETAIL
SCALE 3/4" = 1'-0"

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION & CONSTRUCTION. NOTIFY ADVANTAGE OF ANY DISCREPANCIES.
3. PROVIDE NEW HSS4x4x3/16 FRAME MEMBERS BELOW RTU CURB & FOR DECK SUPPORT AT NEW RTU OPENINGS. REINFORCE JOISTS FOR CONCENTRATED LOADS AT CURB FRAME LOCATIONS.
4. SEE S321 FOR JOIST REINFORCING INFORMATION & RTU SUPPORT DETAILS.

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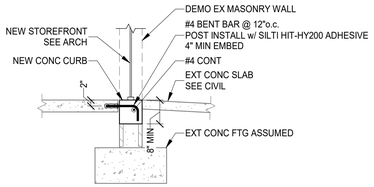
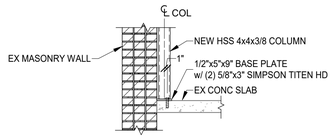
Project Number: 23140.02
Design Team: KCJ / OCP

FRAMING PLAN

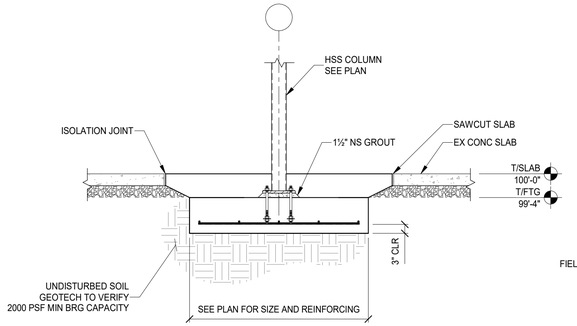
S120



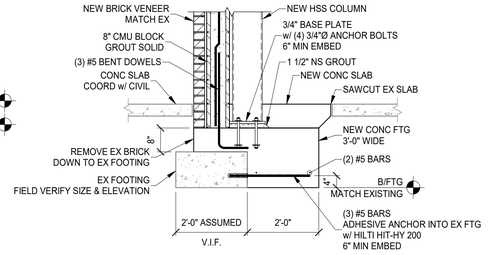
SECTION 1 / S310
SCALE 1/2" = 1'-0"



SECTION 2 / S310
SCALE 1/2" = 1'-0"



SECTION 3 / S310
SCALE 1/2" = 1'-0"



SECTION 4 / S310
SCALE 1/2" = 1'-0"

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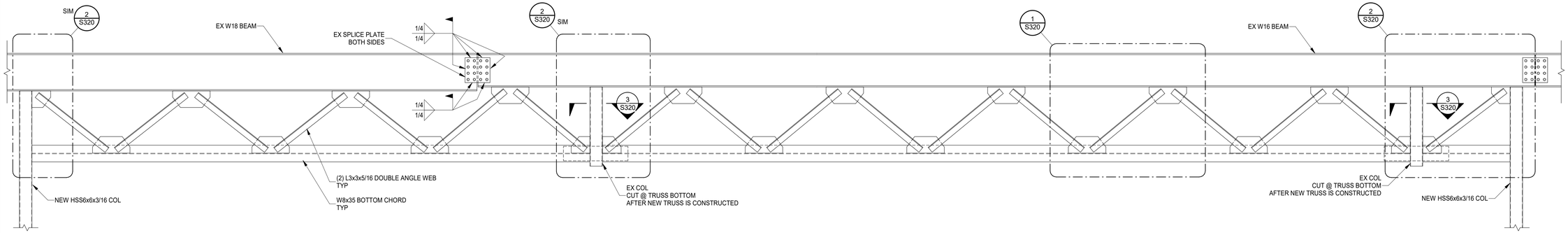
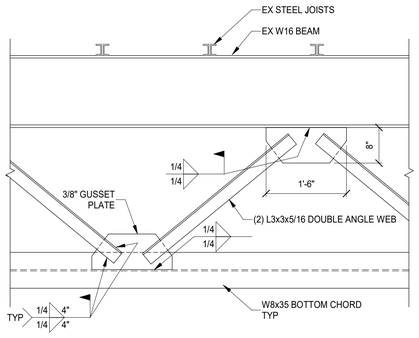
Design Team: KCJ / OCP

FOUNDATION SECTIONS

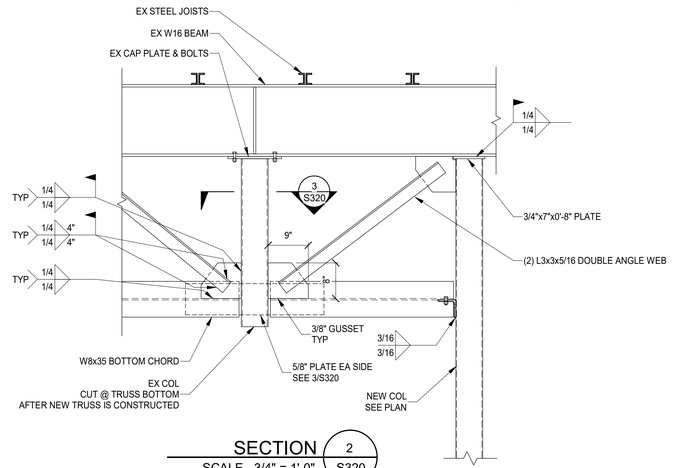
S310



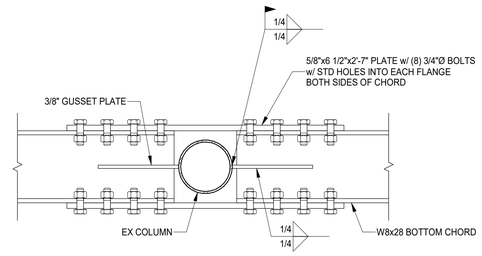
ELEVATION A / S320
SCALE 1/2" = 1'-0"



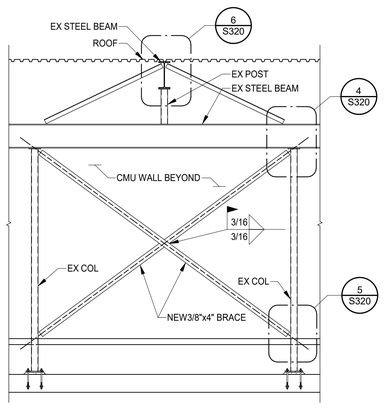
SECTION 1 / S320
SCALE 3/4" = 1'-0"



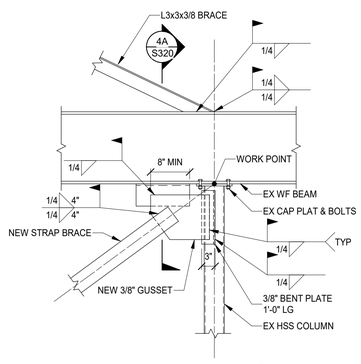
SECTION 2 / S320
SCALE 3/4" = 1'-0"



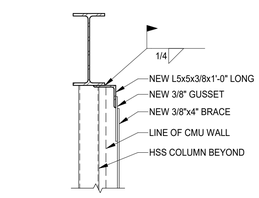
SECTION 3 / S320
SCALE 1 1/2" = 1'-0"



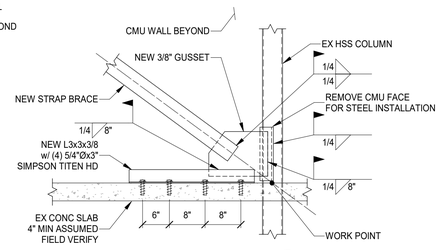
SECTION B / S320
SCALE 1/4" = 1'-0"



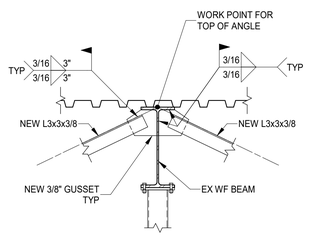
SECTION 4 / S320
SCALE 3/4" = 1'-0"



SECTION 4A / S320
SCALE 3/4" = 1'-0"



SECTION 5 / S320
SCALE 3/4" = 1'-0"



SECTION 6 / S320
SCALE 3/4" = 1'-0"

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1/12

#	Revision/Submission	Date
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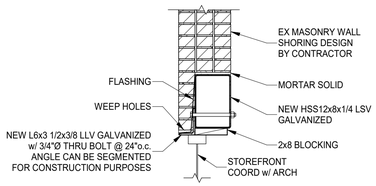
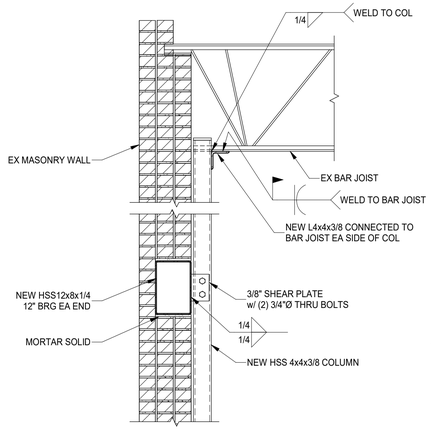
Project Number: 23140.02
Design Team: KCJ / OCP

FRAMING SECTIONS

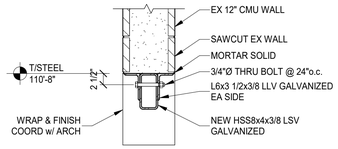
S320



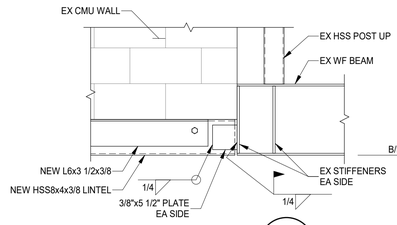
SECTION 7 / S321
SCALE 3/4" = 1'-0"



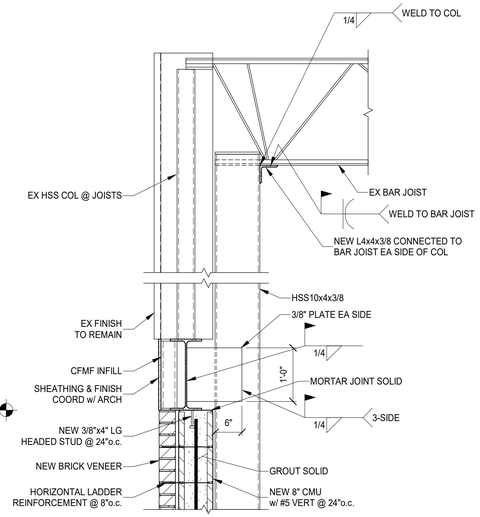
SECTION 8 / S321
SCALE 3/4" = 1'-0"



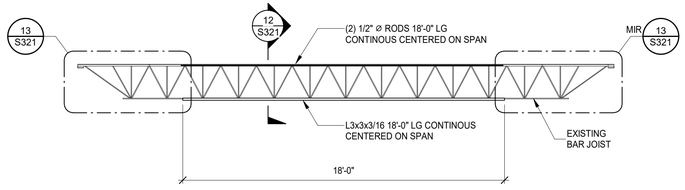
SECTION 9 / S321
SCALE 3/4" = 1'-0"



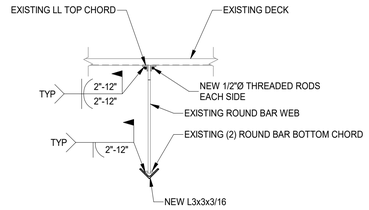
SECTION 10 / S321
SCALE 3/4" = 1'-0"



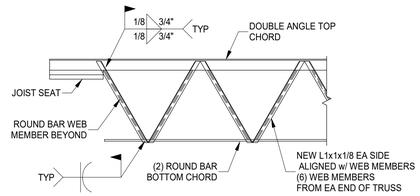
SECTION 11 / S321
SCALE 3/4" = 1'-0"



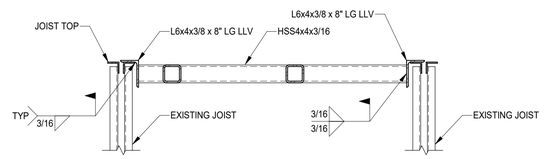
EXISTING JOIST REINFORCING
NO SCALE



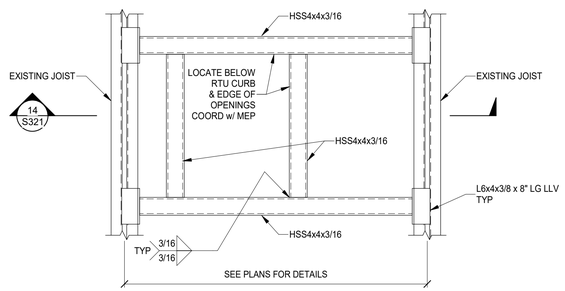
SECTION 12 / S321
SCALE 3/4" = 1'-0"



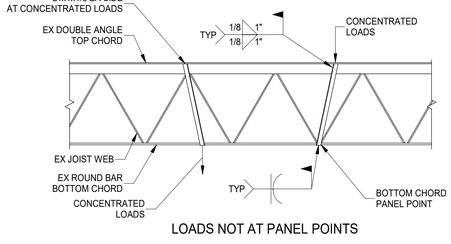
SECTION 13 / S321
SCALE 3/4" = 1'-0"



SECTION 14 / S321
SCALE 3/4" = 1'-0"

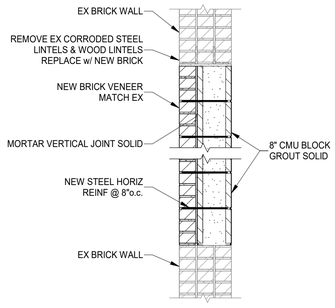


TYPICAL SUPPORT OF RTU AND DECK
OPENINGS GREATER THAN 18"
SCALE 3/4" = 1'-0"

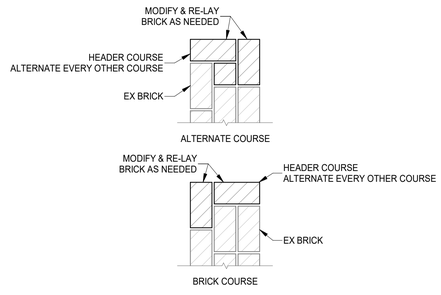


LOADS NOT AT PANEL POINTS

TYPICAL SUPPORT OF CONCENTRATED LOADS
SCALE 3/4" = 1'-0"



TYPICAL WALL INFILL REPLACEMENT DETAIL
SCALE 3/4" = 1'-0"



TYPICAL NEW MASONRY JAMB INFILL
SCALE 1" = 1'-0"

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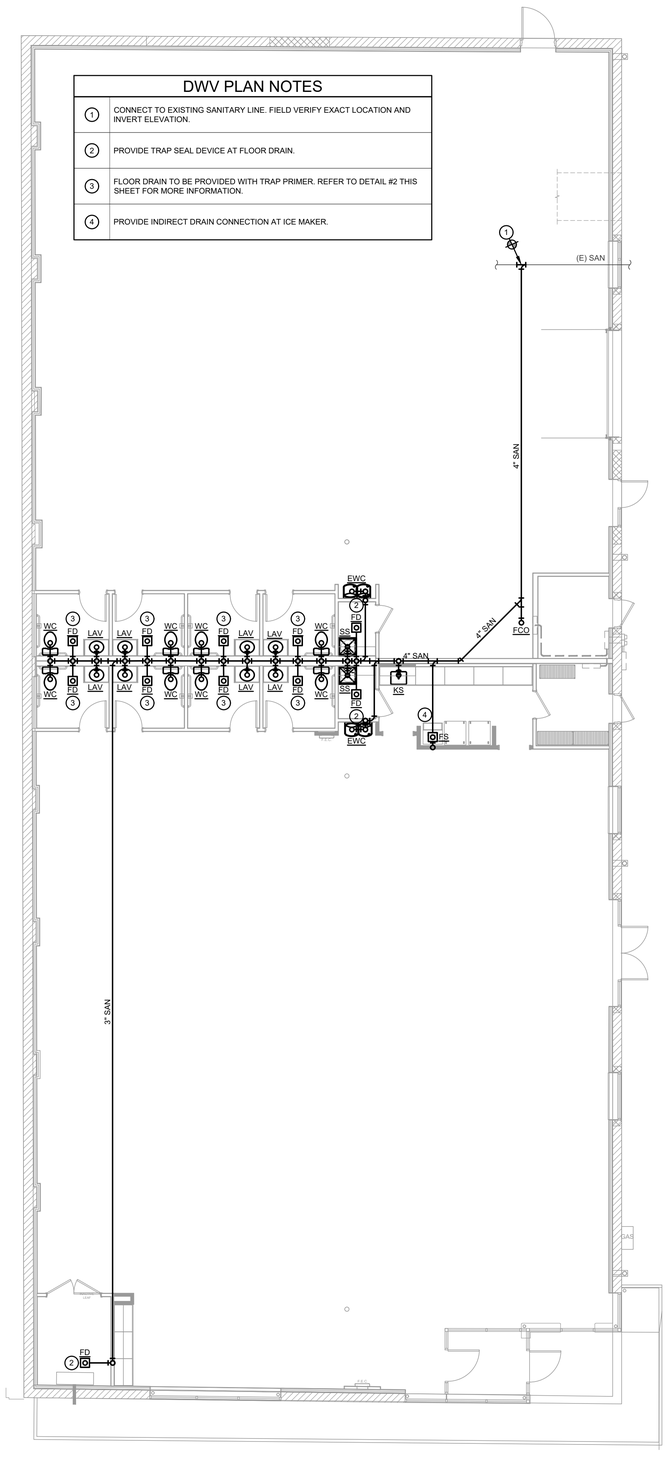
Design Team: KCJ / OCP

FRAMING SECTIONS

S321

DWV PLAN NOTES

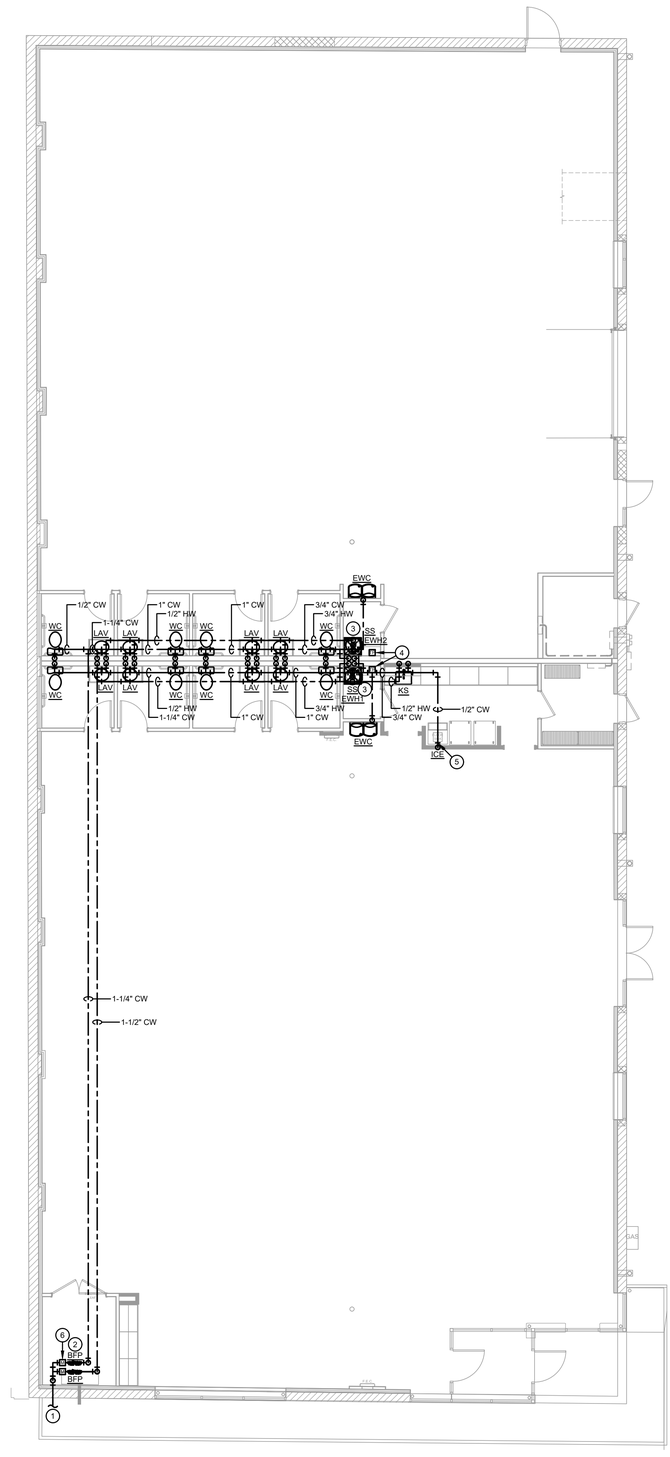
1	CONNECT TO EXISTING SANITARY LINE. FIELD VERIFY EXACT LOCATION AND INVERT ELEVATION.
2	PROVIDE TRAP SEAL DEVICE AT FLOOR DRAIN.
3	FLOOR DRAIN TO BE PROVIDED WITH TRAP PRIMER. REFER TO DETAIL #2 THIS SHEET FOR MORE INFORMATION.
4	PROVIDE INDIRECT DRAIN CONNECTION AT ICE MAKER.



1 P-101 DWV PLUMBING PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

DOMESTIC WATER PLAN NOTES

1	REFER TO CIVIL DRAWINGS FOR CONTINUATION OF NEW 1-1/2" DOMESTIC WATER SERVICE.
2	1-1/2" REDUCED BACKFLOW PREVENTER. REFER TO P-501 AND P-601 FOR MORE INFORMATION.
3	NEW WATER HEATER INSTALLED ON SHELF ABOVE SERVICE SINK. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO P-501 AND P-601 FOR MORE INFORMATION.
4	TRAP PRIMER ASSEMBLY. REFER TO DETAIL ON P-601. INSTALL TRAP PRIMER LINE TO FLOOR DRAIN IN FOUR (4) RESTROOMS.
5	PROVIDE DOUBLE CHECK VALVE AT ICE MACHINE CONNECTION.
6	PROVIDE NEW WATER METERING PER GREATER CINCINNATI WATER WORKS SPECIFICATIONS.



1 P-101 DOMESTIC WATER PLUMBING PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

E2M CONSULTING ENGINEERING
682 TUXEDO PLACE
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TEL: 513.587.0050
www.e2m-eng.com

INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE
934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
	09.01.23	PRICING & PERMIT

SEAL

STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 12/31/2023

SIGNATURE

DATE

PLUMBING PLAN

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

P-101

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL NUMBER	SUPPLY		SANITARY		REQ'D COMP	NOTES
				HOT	COLD	WASTE	VENT		
BFP	R.P.Z. BACK FLOW PREVENTER	WATTS	919	---	1-1/2"	---	---	---	---
CO	CLEANOUT	J.R. SMITH	FIG 4031 SERIES OR EQ.	---	---	3"	---	---	---
FCO	FLOOR CLEANOUT	J.R. SMITH	4532 SERIES	---	---	3"	---	---	---
FD	FLOOR DRAIN	ZURN	Z415B	---	---	3"	1-1/2"	---	1
FS	FLOOR SINK	ZURN	FS12-6-PV3	---	---	3"	1-1/2"	---	---
KS	KITCHEN SINK	ELKAY	LRADQ221960	1/2"	1/2"	1-1/2"	1-1/2"	3	---
LAV	LAVATORY	KOHLER	K-2211-G-0	1/2"	1/2"	1-1/2"	1-1/2"	1	2,4
SS	SERVICE SINK	FIAT	MSB-2424	1/2"	1/2"	3"	1-1/2"	4	---
TV	TEMPERING VALVE	SPARCO	AM100C-1LF	1/2"	1/2"	---	---	---	3
TP	TRAP PRIMER	PRECISION PLUMBING	P1-500	---	1/2"	---	---	2	---
TXT	THERMAL EXPANSION TANK	AMTROL	ST-8	---	---	---	---	---	---
WC	WATER CLOSET - TANK TYPE	KOHLER	K-3519	---	1/2"	3"	1-1/2"	2	---
WCO	WALL CLEANOUT	J.R. SMITH	FIG 4532 SERIES	---	---	3"	---	---	---

REQUIRED COMPONENTS AND SERVICES

1. COLOR: WHITE
   MATERIAL: VITREOUS CHINA
   TYPE: UNDERMOUNT
   FAUCET: KOHLER: K-15182-4RA, SINGLE LEVER
   MISC: PROVIDE WITH GRID DRAIN, SUPPLY STOPS, 1-1/4" P-TRAP AND HOT WATER TEMPERING VALVE (TV)

2. COLOR: WHITE
   TRIP LEVER: CHROME, LEFT AND RIGHT AS NEEDED
   SEAT: CENTOCO 500 SERIES OPEN FRONT
   MOUNTING: FLOOR
   MISC: PROVIDE WITH ANGLED SUPPLY STOP, INSTALL AT ADA COMPLIANT HEIGHT

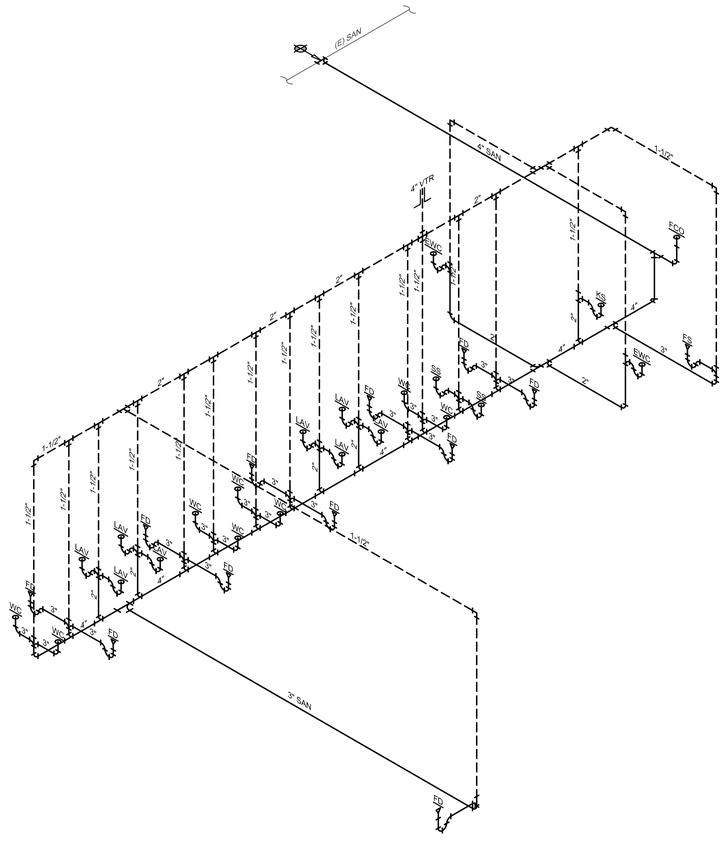
3. MATERIAL: 18GA, TYPE 304 18-8 STAINLESS STEEL
   SIZE: 22" X 19" X 6"
   TYPE: SELF RIMMING
   FAUCET: CHICAGO FAUCET: 1100-317CP
   MISC: PROVIDE WITH LK-99 CRUMB CUP AND STRAINER, 1-1/2" CHROME P-TRAP AND SUPPLY STOPS

4. FAUCET: CHICAGO #897 COMBINATION SERVICE SINK WITH 3/4" HOSE, WALL BRAKET, PAIL HOOK, INTEGRAL STOPS, AND VACUUM BREAKER SPOUT
   CHECK VALVES: PROVIDE CHECK VALVES ON CW AND HW SUPPLIES

NOTES:
1. PLUMBING CONTRACTOR SHALL ADJUST HEIGHT, AND ROTATION (SQUARE WITH WALLS).
2. INSULATE PIPING BELOW LAVATORY.
3. SET OUTPUT FOR 110°F.
4. COORDINATE LOCATION.

ELECTRIC WATER HEATER SCHEDULE

ITEM NO.	CAPACITY (GALLONS)	RECOVERY @ 90°F RISE	ELEMENT KW	VOLTAGE/ PHASE	THERMAL EFF.	WATER CONN.	MANUFACTURER AND MODEL	REMARKS
EWH1	15	14	3	208V/1Ø	98%	3/4"	A.G. SMITH DEL-15-30	SET OUTPUT FOR 120°
EWH2	30	20	4.5	208V/1Ø	98%	3/4"	A.G. SMITH DEL-30-45	SET OUTPUT FOR 120°



1 P-501 DWV ISOMETRIC DIAGRAM
SCALE: NONE

PLUMBING PIPE LEGEND

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	SANITARY WASTE LINE
	VENT LINE
G	GAS LINE
	PIPE TURNED DOWN
	PIPE TURNED UP
	PIPE TEE DOWN
	PIPE TEE UP
	METER
CO	CLEAN OUT
	FLOOR DRAIN
	POINT OF CONNECTION TO EXISTING SYSTEM ELEMENTS.

PLUMBING ISOMETRIC LEGEND

X" VTR	VENT THRU ROOF
	TRAPPED FIXTURE
	NON-TRAPPED FIXTURE
	FLOOR DRAIN

PLUMBING SPECIFICATIONS

1. SCOPE OF WORK

1.1. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.

1.2. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL STANDARD PLUMBING CODE (LATEST EDITION), ALL LOCAL CODES, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.

1.3. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.

1.4. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.

2. PERMITS

2.1. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

3.1. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR ALL EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. DOMESTIC WATER SUPPLY PIPING

4.1. UNDERGROUND: PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.

4.2. ABOVEGROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.

4.3. ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.

4.4. ALL COLD WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.

5. SANITARY/STORM DRAINAGE AND VENT PIPING

5.1. 2" AND BELOW SCH. 40 PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.

5.2. 3" AND ABOVE: SERVICE WT. CAST IRON WITH NO-HUB OR BELL AND SPIGOT JOINTS; OR SCH. 40 PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.

5.3. BELOW GRADE: B. SCH. 40 PVC WITH SOLVENT JOINTS.

5.4. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.

5.5. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.

5.6. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.

5.7. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.

5.8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.

5.9. ALL STUB-INS AND/OR SLAB OR WALL PENETRATION TO BE PER NATIONAL STANDARD PLUMBING CODE. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.

6. PIPE SUPPORTS

6.1. ABOVE GRADE

6.1.1. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN CHAPTER 8 OF THE NATIONAL STANDARD PLUMBING CODE.

6.2. BELOW GRADE

6.2.1. EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.

6.2.2. INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.

6.2.3. EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

7. MISCELLANEOUS

7.1. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT A. ROOF PENETRATION.

7.2. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

7.3. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT.

7.4. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

8. TESTING

8.1. PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE NATIONAL STANDARD PLUMBING CODE.

9. GUARANTEE

9.1. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

9.2. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

PROJECT GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.

2. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.

3. EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.

4. THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.

5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.

6. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.

7. SUBMIT FOR REVIEW SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. COMPLY WITH REQUIREMENTS OF DIVISION 1 SECTION "SUBMITTALS". MINIMUM NUMBER OF COPIES SHALL BE FOUR (4). MARK EACH INDIVIDUAL ITEM WITH PERTINENT SPECIFICATION SECTION AND PARAGRAPH NUMBER. SUBMITTAL WILL BE REJECTED IF SPECIFICATION AND PARAGRAPH NUMBER UNDER WHICH IT IS BEING SUBMITTED IS NOT IDENTIFIED.

8. IF THE SUBMITTAL DEVIATES FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE DEVIATION SHALL BE IDENTIFIED IN WRITING ON THE FIRST PAGE OF THE SUBMITTAL IDENTIFY WHERE WITHIN THE CONTRACT DOCUMENTS THE DEVIATION OCCURS. THE DEVIATION SHALL ONLY BE CONSIDERED ACCEPTABLE IF THE IDENTIFIED DEVIATION HAS BEEN INITIALED BY THE ENGINEER. ANY DEVIATION NOT INITIALED MAY BE ASSUMED TO BE REJECTED. ALL COORDINATION REQUIRED DUE TO THE DEVIATION, SUCH AS SPACE ALLOCATION, CHANGES TO ELECTRICAL SERVICE, OR ANY OTHER REQUIRED CHANGES SHALL BE BORN AS WORK OF RESPECTIVE DIVISION BUT ACCOMPLISHED BY INSTALLERS SKILLED IN THE WORK BEING PERFORMED. NO COSTS INCURRED BY THE APPROVED DEVIATION SHALL BE BORN BY THE OWNER.

9. REVIEW OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE SPECIFIC REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR FOR FITTING THE EQUIPMENT IN THE SPACE ALLOTTED, WITH PROPER SPACE FOR CONNECTION OF PIPING OR DUCTWORK AND FOR SERVICING OR FOR COORDINATION OF THE WORK WITH WORK OF OTHER TRADES. APPROVAL OF DEVIATIONS ALSO DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH ALL OTHER ASPECTS OF THE CONTRACT DOCUMENTS.

10. REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE PROJECT DOCUMENTS. RESPONSIBILITY FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND ESTABLISHING TECHNIQUES OF CONSTRUCTION RESIDES WITH CONTRACTOR. REVIEW SUBCONTRACTORS' SUBMITTALS AND SHOP DRAWINGS AND INDICATE BY RUBBER STAMP OR LETTER THAT THEY HAVE BEEN REVIEWED AND APPROVED BEFORE FORWARDING THEM. SUBMITTALS AND DRAWINGS WILL BE RETURNED AFTER REVIEW INDICATING WHETHER OR NOT EXCEPTIONS ARE TAKEN AND THE REQUIRED PROCEDURE TO BE FOLLOWED THEREAFTER. REVISED AND ACCEPTABLE SUBMITTALS AND SHOP DRAWINGS ARE REQUIRED BEFORE CONSTRUCTION IS BEGUN. INCLUDE DIMENSIONAL DATA AND WEIGHTS OF EQUIPMENT. INCLUDE MOTOR MANUFACTURERS' NAMES.

11. IN GENERAL, THE ARCHITECT AND/OR HIS CONSULTANTS WILL REVIEW EACH SUBMITTAL AS INDICATED ABOVE. IF SUBMITTAL DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS AS INDICATED BY THE SUBMITTAL BEING MARKED "REJECTED" AND "RESUBMIT", BE RESPONSIBLE TO THE OWNER FOR ANY ADDITIONAL COSTS THE OWNER INCURS DUE TO REVIEW OF FOLLOW-ON SUBMITTALS.

12. INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS AND INCLUDE VERTICAL MEASUREMENT FROM FLOOR TO BOTTOM OF PIPING, DUCTWORK, AND ELEVATED EQUIPMENT. PIPING DRAWINGS SHALL INCLUDE ACCESS PANEL LOCATIONS, VALVES, SLEEVES. LOCATION OF SUPPORTS, ETC. DUCTWORK DRAWINGS SHALL INCLUDE ACCESS PANEL LOCATIONS (IN DUCT AND BUILDING CONSTRUCTION TO OBTAIN ENTRY TO SERVICE AND MAINTAIN DUCT MOUNTED EQUIPMENT), VANES, SCOOPS, SPLITTERS, DAMPERS, GRILLES, DIFFUSERS, COILS, ETC. VERTICAL MEASUREMENT SHALL BE INDICATED AT ALL CHANGES IN DIRECTION OF PIPING AND DUCTWORK. MEASUREMENT SHALL BE MADE TO THE OUTSIDE SURFACE OF EXTERIOR INSULATED DUCTING AND PIPING. MEASUREMENTS SHALL INCLUDE CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION; SERVICING AND MAINTAINING EQUIPMENT; SPACE FOR EQUIPMENT DISASSEMBLY FOR PERIODIC MAINTENANCE; AND SHOWING AREAS FOR TUBE, FILTER, AND COIL REMOVAL. PROVIDE DETAILS OF CONNECTIONS AND SUPPORTS, EXTERIOR WALL AND FOUNDATION PENETRATIONS, SIZES AND LOCATIONS OF CONCRETE HOUSEKEEPING PADS, AND INDICATE SPACE FOR VALVE STEM MOVEMENT. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.

13. PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS. INCLUDE LOCATION OF SLEEVES IN FLOORS, WALLS, AND CEILINGS. PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, AIR OUTLETS AND INLETS, LIGHT FIXTURES, COMMUNICATION SYSTEM COMPONENTS, SPRINKLERS, SMOKE DETECTORS, AND OTHER CEILING MOUNTED ITEMS.

14. MECHANICAL DUCTWORK PRIORITY OVER ALL OTHER SYSTEMS BEING INSTALLED (MEP) ABOVE CEILING. REROUTING OF INSTALLED SYSTEMS DUE TO UNCOORDINATED DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

15. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, FLA, MCA, MDCP, MAXIMUM FUSE SIZE AND HORSEPOWER AND SHALL NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT UNLESS FURNISHED INTEGRAL WITH EQUIPMENT PACKAGE.

16. THESE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE GENERALLY DIAGRAMMATIC AND ARE NOT TOO BE SCALED. WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, THE CONTRACTOR SHALL COORDINATE THE WORK TO AVOID INTERFERENCES WITH THE OTHER TRADES. THE CONTRACTOR SHALL CONFIRM AND CORRELATE ALL DIMENSIONS AT THE JOB SITE.

PLUMBING FIXTURE ABBREVIATIONS

XXX FIXTURE DESIGNATION. SEE PLUMBING FIXTURE SCHEDULE FOR EQUIPMENT SPECIFICATIONS.

AD	AREA DRAIN	RO	ROUGH ONLY
AFF	ABOVE FINISHED FLOOR	R&C	ROUGH AND CONNECT
BFP	BACK FLOW PREVENTER	RELOC	RELOCATED
C	CLOSET	S	SINK
CI	CAST IRON	SAN	SANITARY
CO	CLEAN OUT	SD	SHOWER DRAIN
CU	CONDENSING UNIT	SS	SCRUB SINK
DF	DRINKING FOUNTAIN	SH	SHOWER
DS	DOWNSPOUT	SPH	SPRINKLER HEAD
ELEV	ELEVATION	T	TUB
EWC	ELECTRIC WATER COOLER	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TP	TRAP PRIMER
FP	FLOOR PORT	TV	TEMPERING VALVE
HB	HOSE BIBB	UR	URINAL
INV	INVERT	VTR	VENT THRU ROOF
JS	JANITOR SINK	WH	WALL HYDRANT
KS	KITCHEN SINK	WU	WASHER UNIT
LAV	LAVATORY	WC	WATER CLOSET
RD	ROOF DRAIN	WF	WASH FOUNTAIN

E2M CONSULTING ENGINEERING
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INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE

934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
	09.01.23	PRICING & PERMIT

SEAL

STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 12/31/2023

SIGNATURE

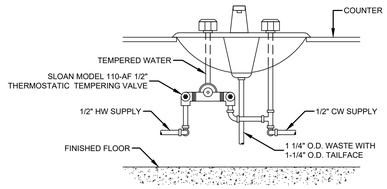
DATE

PLUMBING SCHEDULES & NOTES

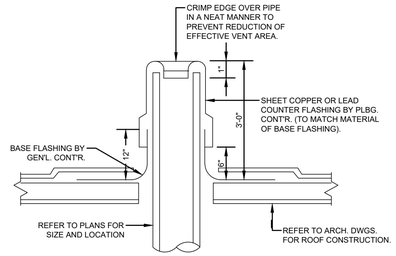
DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

P-501

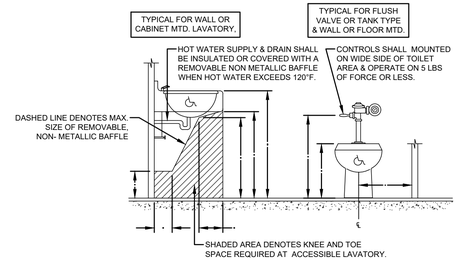
PLOTTED BY KEVIN ON Friday, September 1, 2023 4:36:57 PM. FILE LOCATION: Z:\1. PROJECTS CURRENT\23182 PARAMOUNT SQUARE\+WORKING FILES\PARAMOUNT SQUARE\SHEETS\23182-P-501.DWG



1 P-601 LOCAL MIXING/TEMPERING VALVE DETAIL
SCALE: NONE



2 P-601 PLUMBING VENT THRU FLAT ROOF DETAIL
SCALE: NONE



3 P-601 HANDICAP PLUMBING FIXTURE INSTALLATION DETAIL
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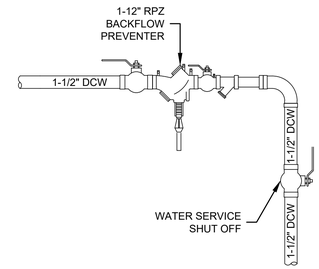
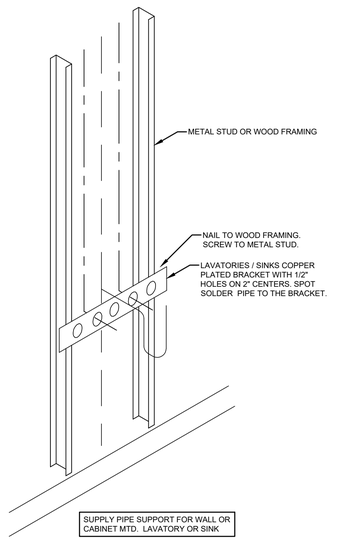
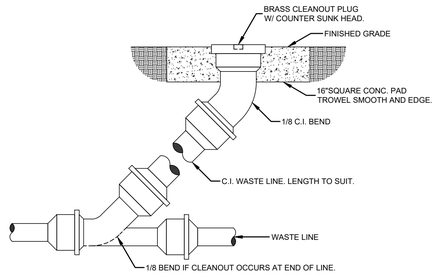


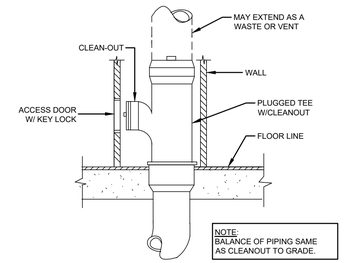
4 P-601 WATER SERVICE DETAIL
SCALE: NONE



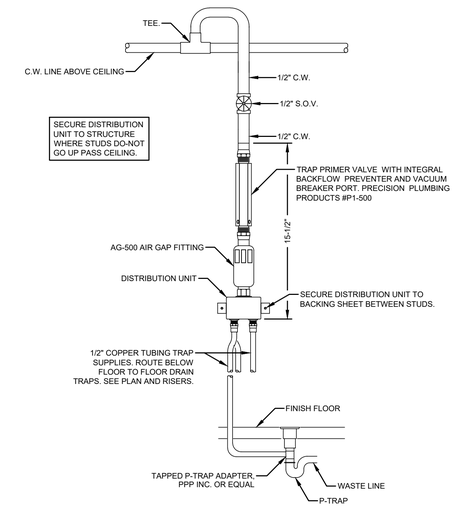
5 P-601 LAVATORY / SINK PIPE SUPPORT DETAIL
SCALE: NONE



6 P-601 CLEANOUT TO GRADE DETAIL
SCALE: NONE



7 M-601 WALL CLEANOUT DETAIL
SCALE: NONE



8 M-601 TRAP PRIMER INSTALLATION DETAIL
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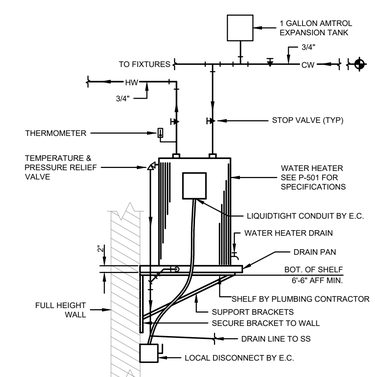

9 P-601 SHELF MOUNTED WATER HEATER INSTALLATION DETAIL
SCALE: NONE

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Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
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SEAL
STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023
SIGNATURE
DATE

PLUMBING DETAILS

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

P-601

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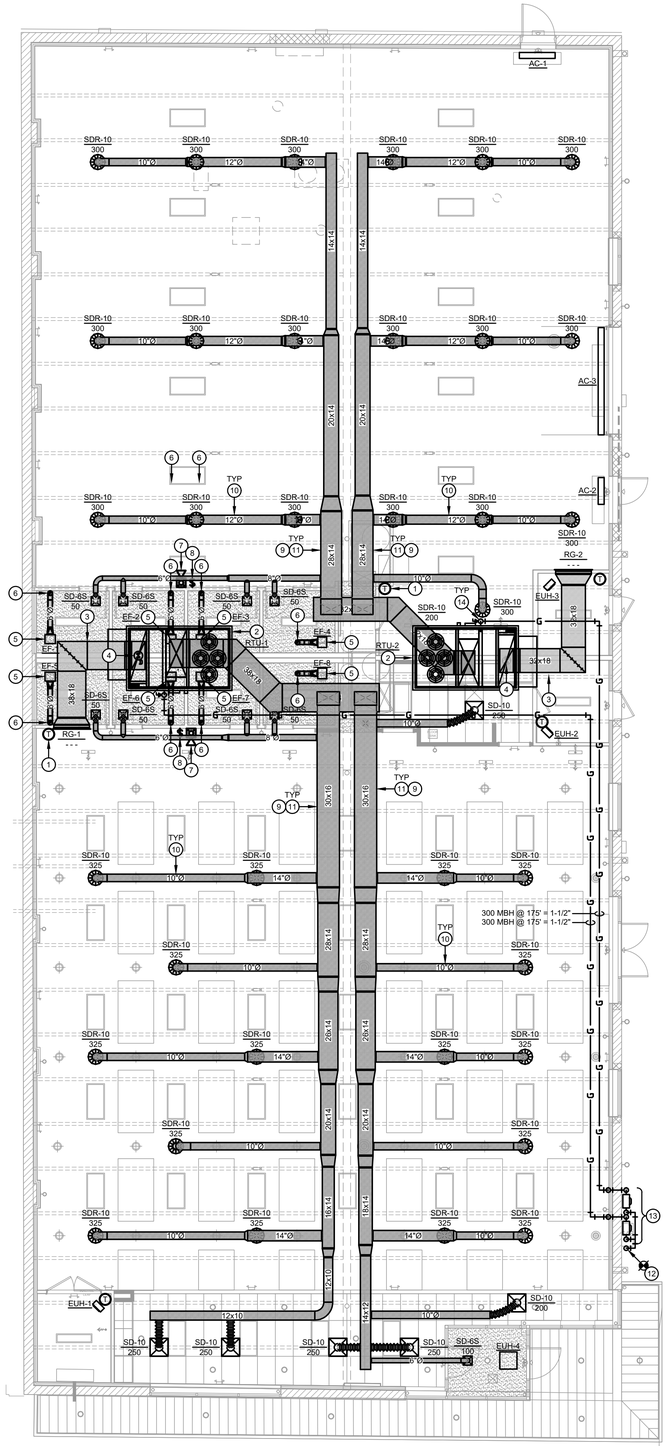

1 M-101 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

PLAN NOTES

1	INSTALL NEW 7-DAY PROGRAMMABLE THERMOSTAT. SEE SHEET M-601 FOR SPECIFICATIONS.
2	INSTALL NEW RTU ABOVE SUPPORT BEAM. PROVIDE WITH NEW ROOF CURB AND CONDENSATE TRAP. INSTALL PER MANUFACTURERS INSTRUCTIONS AND WITHIN ALL STATE AND LOCAL CODES FIELD VERIFY EXACT LOCATION AND CONDITIONS.
3	INSTALL ACOUSTICAL DUCT LINER IN FIRST 10' OF RETURN AIR DUCT DOWNSTREAM OF THE COIL.
4	PROVIDE WITH FACTORY INSTALLED RETURN AIR DUCT SMOKE DETECTOR.
5	PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN IN LOCATION SHOWN. FAN TO BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED TO LOCAL AREA LIGHTING CIRCUIT BY ELECTRICAL CONTRACTOR. SEE SHEET M-501 FOR SPECIFICATIONS.
6	EXTEND EXHAUST DUCT UP THROUGH ROOF. PROVIDE WITH ROOF CAP.
7	ALARM DEVICES FOR DUCT SMOKE DETECTORS. DEVICES SHALL BE LABELED TO IDENTIFY THE UNIT THEY SERVE. MOUNT AT 7'-6" AFF.
8	DUCT SMOKE DETECTOR REMOTE SWITCHES. MOUNT AT 7'-6" AFF.
9	INSTALL DUCT AS HIGH AS POSSIBLE.
10	EXPOSED SPIRAL DUCT WITH PAINT GRIP FINISH.
11	EXPOSED GALVANIZED DUCT WITH PAINT GRIP FINISH.
12	CAPTURE EXISTING GAS LINE STUB-UP.
13	PROVIDE NEW METER BAR AND MANIFOLD AS NEEDED TO SUPPORT MULTI-TENANT GAS METERING. PROVIDE GAS METERING PER LOCAL UTILITY COMPANY SPECIFICATIONS.
14	PROVIDE UNION, GAS COCK, AND 4" DRIP LEG AT EQUIPMENT CONNECTION. TYPICAL OF ALL.
15	INSTALL AIR CURTAIN ABOVE DOOR PER MANUFACTURER' S INSTRUCTIONS. INCLUDE ALL MOUNTING HARDWARE, CONTROLS, AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

MECHANICAL PLAN SYMBOL LEGEND

DUCT LEGEND (NOT ALL SYMBOLS MAY BE USED)	
SIZE	NEW METAL DUCTWORK.
SIZE	EXISTING METAL DUCTWORK.
SIZE	METAL DUCTWORK TO BE DEMOLISHED.
	NEW FLEX DUCTWORK. SIZE SHALL BE EQUAL TO ASSOCIATED DEVICE AND DUCTWORK UNLESS OTHERWISE NOTED.
	EXISTING FLEX DUCTWORK. SIZE SHALL BE EQUAL TO ASSOCIATED DEVICE AND DUCTWORK UNLESS OTHERWISE NOTED.
	FLEX DUCTWORK TO BE DEMOLISHED.
DEVICE LEGEND (NOT ALL SYMBOLS MAY BE USED)	
	NEW OR RELOCATED DIFFUSER. REFER TO SCHEDULE FOR MORE INFORMATION.
	EXISTING DIFFUSER TO REMAIN. REFER TO SCHEDULE FOR MORE INFORMATION.
	SUPPLY AIR DIFFUSER.
	DUCTED RETURN AIR DIFFUSER/GRILLE.
	RETURN AIR GRILLE TO PLENUM ABOVE.
	EXHAUST AIR DIFFUSER/GRILLE.
	LINEAR SLOT DIFFUSER
	SIDWALL OR DUCTMOUNTED GRILLE.
	CABINET STYLE EXHAUST FAN
MISCELLANEOUS LEGEND (NOT ALL SYMBOLS MAY BE USED)	
	POINT OF CONNECTION TO EXISTING SYSTEM ELEMENTS.
ID / CFM	DEVICE IDENTIFIER. RL = RELOCATE, EX=EXISTING BALANCE OR REBALANCE TO CFM SHOWN. SEE AIR DEVICE AND EQUIPMENT SCHEDULES.
T	TEMPERATURE SENSOR, REFER TO SPECIFICATIONS.
TOD: 10'-6"	TOP OF DUCT: ELEVATION 10'-6" AFF.

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LAWRENCE S. AYER
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EXPIRATION DATE: 12/31/2023

SIGNATURE

DATE

MECHANICAL PLAN

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

M-101

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AIR HANDLER SETUP AND BALANCING NOTES

There are (3) three operational mode settings for the furnace. They are as follows:

COMFORT (default) -- Cooling airflow is varied depending on humidity and temperature demands settings. This selection enables the full dehumidify and comfort capabilities of the system. When COMFORT is not selected, the unit will not run reduced airflows for dehumidification.

EFFICIENCY -- Fixed airflow used to achieve specified ratings --no dehumidification airflow reduction. This is nominally 350 CFM/ton, but will vary if a 2-stage outdoor unit is used.

MAXIMUM -- 400 CFM/ton. No dehumidification airflow reduction.

For normal operation the system shall operate in COMFORT. This utilizes the system to its maximum potential. During dehumidification mode it can modulate the fan down to 250 CFM per ton and if it senses ice forming on the coil, it will slowly ramp up to prevent it.

For the balancing the system, set to MAXIMUM with the fan switch set to HIGH. Once it is balanced the system can then be changed back to COMFORT.

The operation modes are accessible through the service menu.
To enter INSTALL / SERVICE menus, press and hold the ADVANCED button for at least ten seconds. The following menu will appear:

EQUIPMENT SUMMARY: Shows all equipment recognized by and attached to the system.
INSTALL: Used when adding, changing out, or un--installing equipment.
SETUP: Used to view or modify equipment settings.
CHECKOUT: Allows testing of equipment operation.
SERVICE: Used to view operation and fault history of equipment and enter dealer name/phone number for display

Go to SETUP, then to FURNACE, then to AC Airflow. From there set it to MAXIMUM, set the fan switch on the side of the thermostat to HIGH and balance the system. It should be performing at 400 CFM per ton.

Once everything is balanced accordingly, go back into the service menu and change it back to COMFORT and set the fan switch to AUTO.

SEQUENCE OF OPERATION

STARTUP:	AN HOUR BEFORE OPENING, THE THERMOSTATS SHALL GO INTO OCCUPIED MODE AND THE OUTSIDE AIR DAMPER SHALL OPEN TO A PREDETERMINED SET POINT. IN HEATING MODE THE THERMOSTAT SHALL BE SET TO 71 DEGREES AND IN COOLING MODE IT SHALL BE SET TO 72 DEGREES. COORDINATE THE HOURS OF OPERATION WITH THE OWNER.
OCCUPIED HOURS:	DURING OCCUPIED HOURS THE THERMOSTAT SET POINT SHALL REMAIN AT 71 DEGREES IN HEATING MODE AND 72 DEGREES IN COOLING MODE. THE OUTSIDE AIR DAMPER SHALL BE OPEN AND SHALL MAINTAIN THE REQUIRED MINIMUM OUTSIDE AIR TO THE SPACE.
NIGHT SETBACK:	DURING UNOCCUPIED HOURS THE RTU SHALL GO INTO FAIL SAFE POSITION. FAIL SAFE POSITION IS DEFINED BY THE FOLLOWING: THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER IS CLOSED, THE HEATING IS OFF AND THE MECHANICAL COOLING IS OFF. THE SUPPLY FAN SHALL CYCLE IN CONJUNCTION WITH EITHER THE HEATING OR COOLING SYSTEM TO MAINTAIN 65 DEGREES IN HEATING AND 78 DEGREES IN COOLING.

SMACNA HVAC DUCTWORK SHEET METAL GAUGES

MAXIMUM DUCT DIMENSIONS	SMACNA PRESSURE CLASS											
	0.50 W.C.		1.00 W.C.		2.00 W.C.		3.00 W.C.		4.00 W.C.		6.00 W.C.		10.00 W.C.	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4" - 8"	24	-	24	-	24	-	24	24	24	24	24	24	22	24
9" - 10"	24	-	24	-	24	-	24	24	22	24	22	24	20	22
11" - 12"	24	-	24	-	24	-	24	24	22	24	20	24	18	22
13" - 14"	24	-	24	-	24	24	22	24	20	24	20	22	18	20
15" - 16"	24	-	24	-	24	24	22	24	20	24	18	22	16	20
17" - 18"	24	-	24	24	22	24	20	24	18	24	18	22	16	20
19" - 20"	24	24	24	24	20	24	18	24	18	24	16	22	-	18
21" - 22"	22	24	22	24	18	24	18	24	18	24	16	22	-	18
23" - 24"	22	24	22	24	18	24	18	24	18	22	16	22	-	18
25" - 26"	20	24	20	24	18	24	18	24	16	22	-	20	-	18
27" - 28"	18	24	18	24	18	24	18	22	16	22	-	20	-	18
29" - 30"	18	24	18	24	18	24	18	22	16	22	-	18	-	18
31" - 36"	18	24	18	24	16	24	16	20	-	20	-	18	-	16
37" - 42"	16	24	16	24	-	22	-	20	-	18	-	16	-	16
43" - 48"	16	24	16	22	-	22	-	18	-	18	-	16	-	16
49" - 54"	-	24	-	22	-	20	-	18	-	18	-	16	-	16
55" - 60"	-	24	-	22	-	20	-	18	-	16	-	16	-	16
61" -72"	-	22	-	18	-	18	-	16	-	16	-	16	-	16
73" -84"	-	22	-	18	-	16	-	16	-	16	-	16	-	16
85" -96"	-	20	-	18	-	16	-	16	-	16	-	16	-	16
97" -108"	-	18	-	16	-	16	-	16	-	16	-	16	-	16
109" -120"	-	16	-	16	-	16	-	16	-	16	-	16	-	16

NOTES:
1. THIS TABLE IS BASED ON THE FOLLOWING:
   - 1.1. COLUMN A: DUCT GAUGE REQUIREMENT WITH NO REINFORCEMENT
   - 1.2. COLUMN B: DUCT GAUGE WITH REINFORCEMENT AS INDICATED BELOW
     - 1.2.1. 0.50" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 19" - 120"
     - 1.2.2. 1.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 17" - 108" AND 4 FEET SPACING FOR 109" - 120"
     - 1.2.3. 2.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 13" - 84" AND 4 FEET SPACING FOR 85" - 108" AND 3 FEET SPACING FOR 109" - 120".
     - 1.2.4. 3.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR G 4" - 84", 4 FEET SPACING FOR 85" - 96" AND 3 FEET SPACING FOR 97" - 120".
     - 1.2.5. 4.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 60", 4 FEET SPACING FOR 61" - 72" AND 3 FEET SPACING FOR 73" - 120".
     - 1.2.6. 6.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 48", 4 FEET SPACING FOR 49" - 60" AND 3 FEET SPACING FOR 61" - 120".
     - 1.2.7. 10.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 42", 4 FEET SPACING FOR 43" - 54", 3 FEET SPACING FOR 55" - 72" AND 2 FEET SPACING FOR 73" - 120".

PACKAGED ROOFTOP UNITS SCHEDULE

MARK	RTU-1	RTU-2
MANUFACTURER	CARRIER	CARRIER
MODEL #	48LCEA20A2M5-0R4A0	48LCEA17A2M5-0R4A0
CONFIGURATION	VERTICAL SUPPY/RETURN	VERTICAL SUPPY/RETURN
DISCHARGE	DOWNFLOW	DOWNFLOW
APPLICATION TYPE	SINGLE ZONE	SINGLE ZONE
HEAT TYPE	GAS	GAS
DESIGN CFM	7,000	6,000
NOMINAL CAP	17.5 TON	15 TON
COOLING STAGES	3-STAGE WITH TVX	3-STAGE WITH TVX
TOTAL COOLING MBH	188.56	169.45
SENS. TOTAL MBH	136.88	121.36
IEER / ARI EER	17.7 / 12.00	18.4 / 12.50
REFRIGERANT TYPE	R410A	R410A
GAS INPUT MBH	248.0/310.0	248.0/310.0
OUTPUT MBH	200.0/251.0	200.0/251.0
VOLTAGE/PHASE	208V/3Ø/60Hz	208V/3Ø/60Hz
MCA	85.9	80.0
MOCP	100	100
SINGLE POINT POWER	YES	YES
HINGED PANELS	YES	YES
SUPPLY FAN	MED STATIC W/ VFD	MED STATIC W/ VFD
FILTERS	2"	2"
CRANKCASE HEATER	YES	YES
LOW AMBIENT	YES	YES
ROOF CURB (14")	YES	YES
ECONOMIZER	ENTHALPY	ENTHALPY
HOT GAS REHEAT	YES	YES
POWER EXHAUSTER	NO	NO
HAIL GUARD	YES	YES
TXV OPTION	YES	YES
ELEC. DISCONNECT	YES	YES
CONV. RECEPTACLE	UNPOWERED	UNPOWERED
RTRN DUCT SMOKE DETECTOR	YES	YES
ROOF CURB	CRRFCURB047A00	CRRFCURB047A00
UNIT WEIGHT	3,078	2,972
DIMENSIONS (L x W x H)	11'-9.5" X 7'-2.375" X 4'-10.5"	11'-9.5" X 7'-2.375" X 4'-10.5"
NOTES	1,2,3,4	1,2,3,4

NOTES:
1. PROVIDE HIGH PRESSURE AND FREEZE-STAT CONTROLS.
2. RETURN AIR DUCT SMOKE DETECTOR.
3. PROVIDE WITH CARRIER # 33CONNECTSTAT43 CARRIER CONNECT WI-FI 7-DAY PROGRAMMABLE THERMOSTAT.
4. OR EQUAL BY TRANE, DAIKIN, YORK, OR LENNOX.

HVAC NOTES

1. SCOPE OF WORK
   - 1.1. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
   - 1.2. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE 2006, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
   - 1.3. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
   - 1.4. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
2. SHOP DRAWINGS
   - 2.1. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
3. FLEXIBLE TYPE DUCT
   - 3.1. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 8 LINEAR FEET PER RUN. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.
4. REFRIGERANT PIPING
   - 4.1. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULATION.
   - 4.2. SHALL BE TYPE "K" COPPER TUBING, WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER DUCTWORK.
5. SHEET METAL DUCT WORK
   - 5.1. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
   - 5.2. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
   - 5.3. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.
   - 5.4. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
   - 5.5. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
   - 5.6. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
   - 5.7. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
   - 5.8. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL DUCT LINER.
6. DRAINAGE PIPING (CONDENSATE)
   - 6.1. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED TO FLOOR DRAIN OR INDIRECT WASTE DRAIN.
7. HVAC CONTROLS
   - 7.1. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.
8. ELECTRICAL
   - 8.1. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.
9. PIPE SUPPORTS
   - 9.1. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.
10. MISCELLANEOUS
    - 10.1. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.
    - 10.2. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
    - 10.3. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
    - 10.4. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
11. TESTING AND BALANCING
    - 11.1. THE HVAC SYSTEM SHALL BE TESTED AND AND BALANCED BY AN INDEPENDENT AGENCY, UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
12. GUARANTEE
    - 12.1. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
    - 12.2. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER / MODEL #	FAN DATA			MOTOR DATA			BACKDRAFT DAMPER	NOTES
		CFM	SP	RPM	VOLTS	PHASE	WATTS / HP		
EF-1	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-2	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-3	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-4	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-5	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-6	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-7	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1
EF-8	GREENHECK / SP-A90	70	0.25	880	120	1	14W	YES	1

NOTES:
1. PROVIDE WITH SPEED CONTROLLER.

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CAPACITY		CFM	ELECTRIC DATA			NOTES
				WATTS	BTU		VOLTS	PHASE	HERTZ	
EBH-1	MARKEL	HF5605	UNIT HEATER	1,874	6,396	275	208	1	60	1,2,3
EBH-2	MARKEL	HF5605	UNIT HEATER	1,874	6,396	275	208	1	60	1,2,3
EBH-3	MARKEL	HF5605	UNIT HEATER	1,874	6,396	275	208	1	60	1,2,3
EBH-4	BERKO	FFCH548-RENW-T	CEILING	2,000	6,826	300	208	1	60	4,5

NOTES:
1. PROVIDED WITH 24V CONTROL TRANSFORMER.
2. UNIT TO BE SUSPENDED FROM CEILING. PROVIDE ALL REQUIRED HARDWARE.
3. PROVIDE END CAPS AS NEEDED.
4. PROVIDED WITH INTEGRAL MECHANICAL THERMOSTAT
5. COLOR SHALL BE WHITE.

REGISTER, DIFFUSER AND GRILLE SCHEDULE

MARK	SD-6S	SD-10	SGR-10	RG-1	RG-2
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL NUMBER	SPD	SPD	10" / RCD	95 SERIES	95 SERIES
TYPE	FLAT PLAQUE	FLAT PLAQUE	3-CONE	LOUVERED	LOUVERED
DIRECTION	4-WAY	4-WAY	360°	1-WAY	1-WAY
MOUNTING	LAY-IN / DRYWALL	LAY-IN / DRYWALL	DUCT	SIDEWALL	SIDEWALL
G / R / D	D	D	D	G	G
CFM	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED
NECK SIZE	6"Ø	10"Ø	10"Ø	72" X 20"	60" X 20"
PANEL SIZE	12x12	24x24	18"Ø	75" X 23"	53" X 33"
MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE
DAMPER	YES	YES	YES	YES	YES
SOUND (NC)	<20	<20	<20	<25	<25
REMARKS / NOTES	1,2	1,2	4		

NOTES:
1. DIFFUSERS SHALL BE 4-WAY FLOW UNLESS OTHERWISE NOTED
2. PROVIDE WITH DRYWALL WALL MOUNTING FRAME WHERE REQUIRED.
3. PROVIDE WITH DUCT MOUNTING FRAME WHERE REQUIRED.
4. PAINT GRIP FINISH.

AIR CURTAIN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	LENGTH	HEATING KW	CFM	ELECTRIC DATA			NOTES
							VOLTS	PHASE	HERTZ	
AC-1	MARS	LPV248-1EBD-OB	LOW PROFILE	48"	8.00	1200	208	1	60	1,2,3
AC-2	MARS	LPV236-1EBC-OB	LOW PROFILE	36"	6.10	900	208	1	60	1,2,3
AC-3	MARS	LPV2144-2EEO-OB	LOW PROFILE	144"	26.0	3600	208	3	60	1,2,3

NOTES:
1. PROVIDED WITH ALL REQUIRED CONTROLS AND ACCESSORIES.
2. COLOR SHALL BE BLACK.

PROJECT GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
2. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
3. EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
4. THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.
6. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO MECHANICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.

Outdoor Air Calculations Per ASHRAE Standard 62.1

Room Number	Room Name	Room Area	System Number	Occupancy Category (Table 6.1)	Exhaust Occupancy Category (Table 6.4)	Minimum Ventilation Known Occupancy			Minimum Ventilation Default Values			Minimum Exhaust Rate (Table 6.4)	Total Exhaust Rate	Breathing Zone Outdoor Air	Primary Outdoor Air Fraction	System #1	Max Zp: 0.31	System #2	Max Zp: 0.34
						CFM Per Person	CFM per 1,000 Ft²	No. of People	People per 1,000 Ft² (Pz)	CFM Per Person	Number of People					Supply	Outdoor Air	Supply	Outdoor Air
						(Rp)	(Ra)	(Pz)	(Pz)						(Zp)				
101	Vestibule	67 Ft²	1	General - Corridors			0.06							4.02	0.05	100	5		
102	Hall A	4445 Ft²	1	Educational Facilities - Multi-use Assembly		7.50	0.06	174.00						1,571.70	0.31	6,400	750		
103	Storage	81 Ft²	1	General - Corridors												50			
104	Storage	76 Ft²	1	General - Corridors												50			
105	Kitchen	143 Ft²	1	Not Applicable - Exhaust Only	Kitchenettes							0.30	42.90			250			
106	Janitor	25 Ft²	1	Not Applicable - Exhaust Only	Janitor Trash Recycle							1.00	25.00			20			
107	Restroom	55 Ft²	1	Not Applicable - Exhaust Only	Toilets - Public								70.00			50			
108	Restroom	55 Ft²	1	Not Applicable - Exhaust Only	Toilets - Public								70.00			50			
109	Restroom	55 Ft²	1	Not Applicable - Exhaust Only	Toilets - Public								70.00			50			
110	Restroom	56 Ft²	1	Not Applicable - Exhaust Only	Toilets - Public								70.00			50			
111	Restroom	56 Ft²	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					50	
112	Restroom	55 Ft²	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					50	
113	Restroom	55 Ft²	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					50	
114	Restroom	55 Ft²	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					50	
115	Janitor	25 Ft²	2	Not Applicable - Exhaust Only	Janitor Trash Recycle							1.00	50.00					20	
116	Hall B	4000 Ft²	2	Educational Facilities - Multi-use Assembly		7.50	0.06	174.00						1,545.00	0.34			5,700	750
117	Storage	72 Ft²	2	General - Storage Rooms														75	
Notes																17.5 Ton System		15.0 Ton System	
																28% Outdoor Air		32% Outdoor Air	
																People: 174		People: 174	
																System Efficiency: 0.80		System Efficiency: 0.80	
																Occupant Diversity: 1.00		Occupant Diversity: 1.00	
																1,970 CFM O.A. Required		1,931 CFM O.A. Required	

E2M CONSULTING ENGINEERING
682 TUXEDO PLACE
CINCINNATI, OH 45206
TEL: 513.587.0050
www.e2m-eng.com

INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE
934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
	09.01.23	PRICING & PERMIT

SEAL

STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 12/31/2023

SIGNATURE

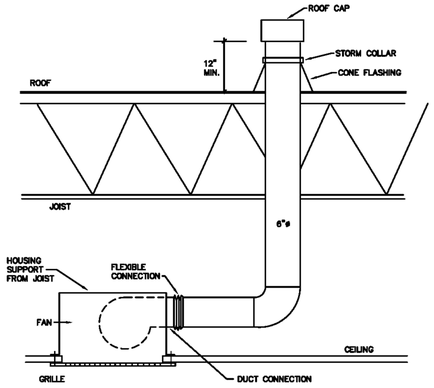
DATE

MECHANICAL SCHEDULES

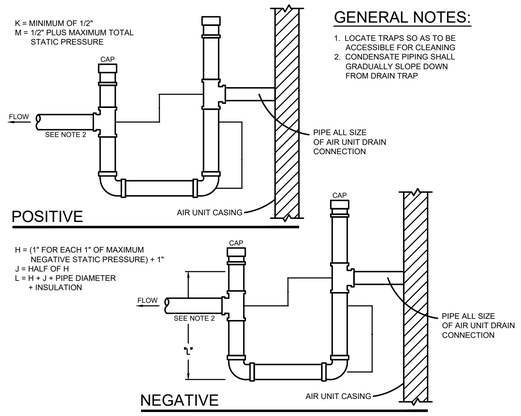
DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

M-501

PLOTTED BY KEVIN ON Friday, September 1, 2023 4:34:12 PM. FILE LOCATION: Z:\1. PROJECTS CURRENT\23182 PARAMOUNT SQUARE\+=WORKING FILES\PARAMOUNT SQUARE\SHEETS\23182-M-501.DWG



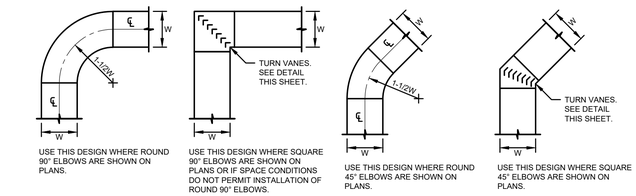
1 M-601 RESTROOM EXHAUST FAN DETAIL
SCALE: NONE

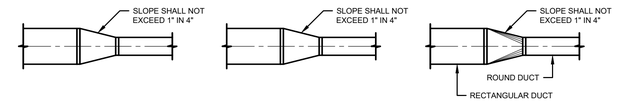


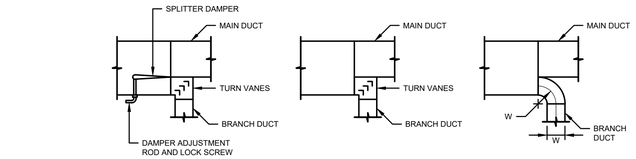
GENERAL NOTES:

1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING
2. CONDENSATE PIPING SHALL GRADUALLY SLOPE DOWN FROM DRAIN TRAP

2 M-601 CONDENSTATE DRAIN TRAP DETAIL
SCALE: NONE

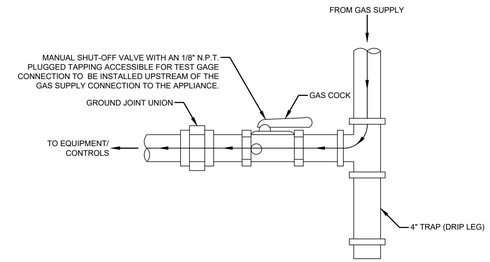




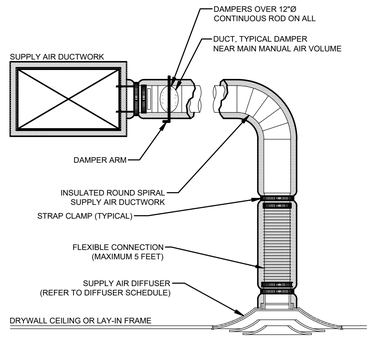


INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

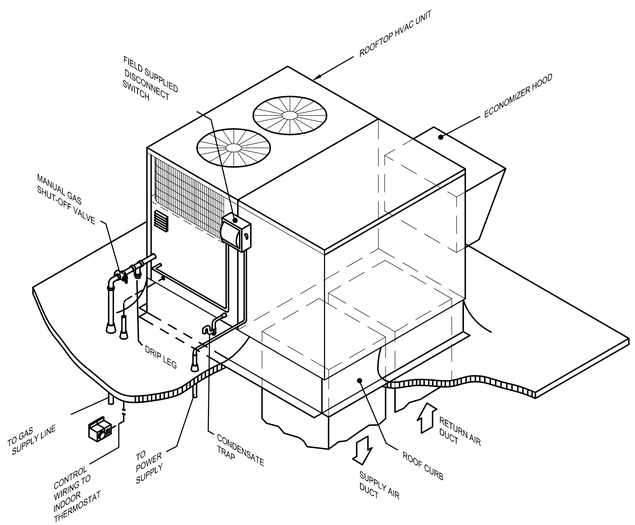


3 M-601 GAS CONNECTION TO EQUIPMENT DETAIL
SCALE: NONE



4 M-601 CEILING MOUNTED DIFFUSER DETAIL
SCALE: NONE

5 M-601 LOW VELOCITY DUCT INSTALLATION DETAILS
SCALE: NONE



6 M-601 TYPICAL ROOFTOP UNIT INSTALLATION DETAIL
SCALE: NONE

E2M CONSULTING ENGINEERING
682 TUXEDO PLACE
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TEL: 513.587.0050
www.e2m-eng.com

INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE
934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
	09.01.23	PRICING & PERMIT

SEAL

STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023

SIGNATURE

DATE

MECHANICAL DETAILS

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

M-601

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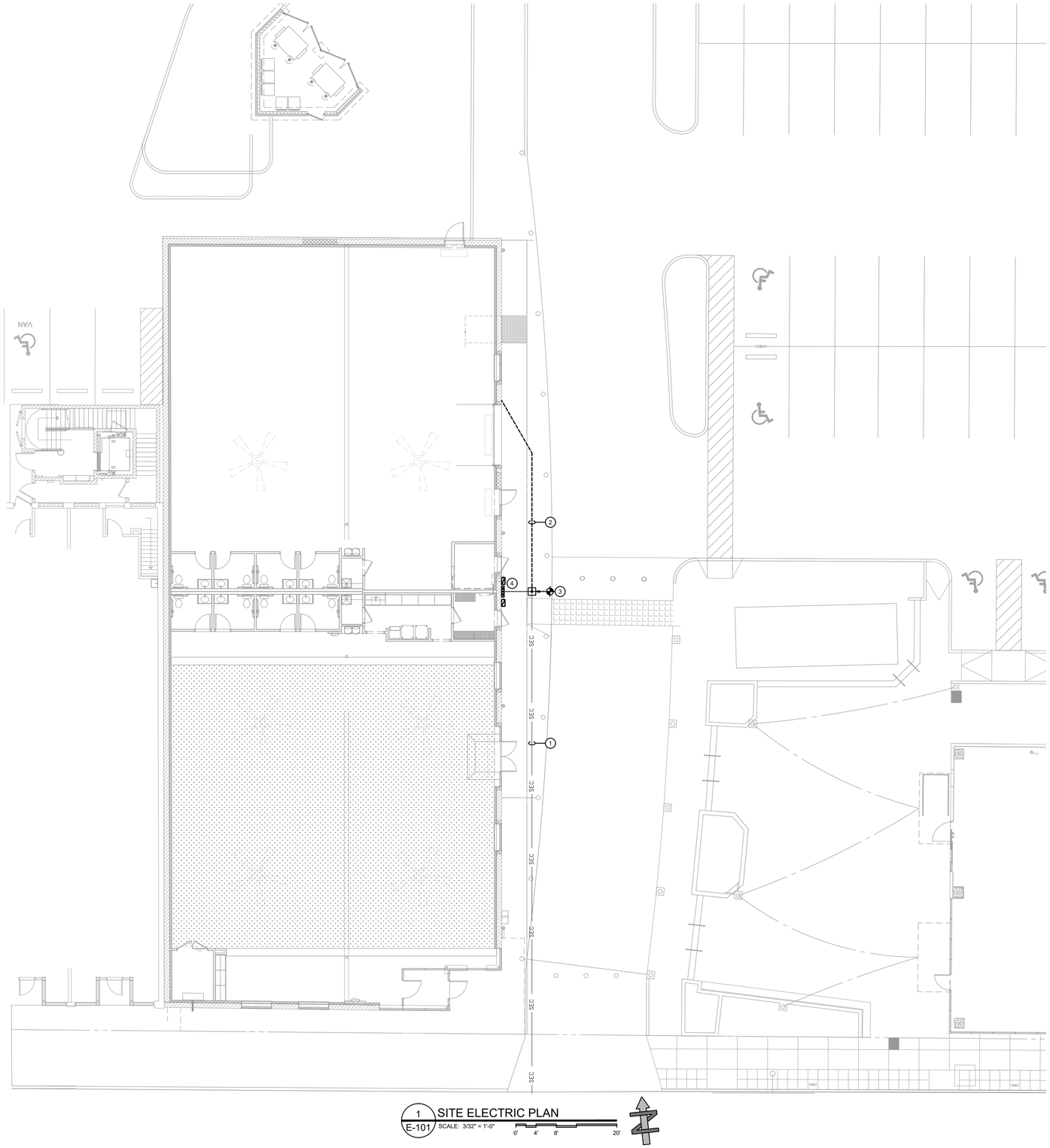

1 / E-101 SITE ELECTRIC PLAN
SCALE: 3/32" = 1'-0"
0' 4' 8' 20'

PLAN NOTES

1	EXISTING 600A, 3Ø, 208/120V SERVICE ENTRANCE CONDUITS AND WIRING UNDER SLAB FROM DUKE ENERGY VAULT. FIELD VERIFY EXACT LOCATION.
2	REMOVE EXISTING SERVICE ENTRANCE WIRING, ABANDON CONDUITS IN PLACE. FIELD VERIFY EXACT LOCATION.
3	CAPTURE EXISTING 600A, 3Ø, 208/120V SERVICE ENTRANCE CONDUITS AND WIRING UNDER SLAB. EXTEND TO NEW METERING EQUIPMENT ON BUILDING. PROVIDE WITH TRAFFIC RATED QUAZITE BOX WHERE REQUIRED. FIELD VERIFY EXACT LOCATION.
4	REFER TO SINGLE LINE RISER DIAGRAM ON E-501 FOR MORE INFORMATION.

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STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023

SIGNATURE

DATE

SITE ELECTRIC PLAN

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

E-001

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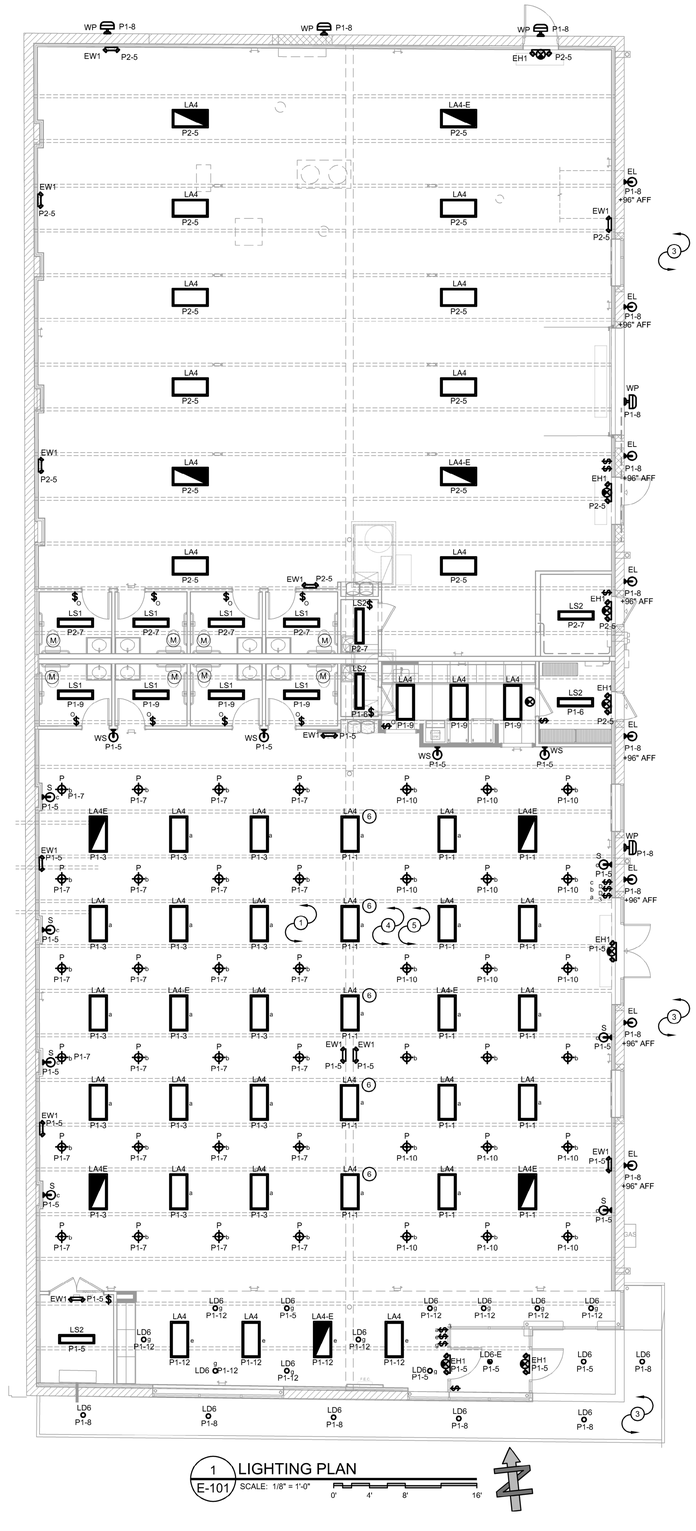

LIGHT FIXTURE SCHEDULE

SYMBOL	ID	DESCRIPTION	FIXTURE INFORMATION		ELECTRIC INFORMATION		MISCELLANEOUS INFORMATION	
	LA4	24" X 48" LED TROFFER	MAKE	COLUMBIA LIGHTING	VOLTAGE	UNV	MOUNTING	SURFACE/RECESSED
			MODEL	CFP24-55/41/3440-SRPSMK-24	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	33W		
	LA4-E	24" X 48" LED TROFFER WITH EMERGENCY BATTERY BACKUP	MAKE	COLUMBIA LIGHTING	VOLTAGE	UNV	MOUNTING	SURFACE/RECESSED
			MODEL	CFP24-55/41/3440-PLD10M-SRPSMK-24	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	33W		
	LC6	6" CAN LIGHT	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	RECESSED
			MODEL	TBD	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	33W		
	LC6-E	6" CAN LIGHT WITH EMERGENCY BATTERY BACKUP	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	RECESSED
			MODEL	TBD	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	33W		
	S	LED WALL SCONCE	MAKE	SPECTRUM LIGHTING	VOLTAGE	MVOLT	MOUNTING	WALL
			MODEL	CW0612UDPC-15L-27K--EXCL-WM-PT	LAMP QTY		HEIGHT	72"
			ALTERNATE		LAMP TYPE	LED	NOTES	CONFIRM HEIGHT W/ ARCHITECT
			OTHER	Other	WATTS	21 W		
	P	LED PENDANT	MAKE	WESTGATE	VOLTAGE	120V	MOUNTING	SURFACE
			MODEL	CMC6-MCTP-DD-BK	LAMP QTY		HEIGHT	BOTTOM/ 10' AFF
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER	FINISH: BLACK	WATTS	35W		
	LS1	LED 4' STRIP LIGHT FIXTURE	MAKE	TBD	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	TBD	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	- - - W		
	LS2	LED 4' STRIP LIGHT FIXTURE	MAKE	TBD	VOLTAGE	MVOLT	MOUNTING	SURFACE
			MODEL	TBD	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	- - - W		
	EW1	EMERGENCY EGRESS FIXTURE	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	ELM4L	LAMP QTY	2	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	3W		
	X1	EXIT / EMERGENCY SIGN	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	UNIVERSAL
			MODEL	EDG/EDGR W RMR EL	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	FACES AND ARROWS PER PLANS
			OTHER		WATTS	4.3W		
	EH1	EMERGENCY EGRESS FIXTURE WITH HIGH CAP BATTERY FOR REMOTE EGRESS NEEDS	MAKE	LITHONIA	VOLTAGE	120/277V	MOUNTING	WALL
			MODEL	LHOM LED R HO	LAMP QTY	2	HEIGHT	
			ALTERNATE		LAMP TYPE		NOTES	FACES AND ARROWS PER PLAN
			OTHER		WATTS	3W		
	EL	EXTERIOR LED	MAKE	EFFICIENT LIGHTING	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	EL-1080UD-18LED-B	LAMP QTY	LED	HEIGHT	8' AFF
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	18W		
	WP	LED WALL PACK	MAKE	LUMARK	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	AXCS4A-W-BK-PC1	LAMP QTY	LED	HEIGHT	12'
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	44W		

NOTES
1. FIXTURES WITH THE SUFFIX "-EM" ATTACHED TO THE ID OR SHOWN HALF SHADED ARE EMERGENCY FIXTURES. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
2. FIXTURES WITH THE SUFFIX "-NL" ARE NIGHT LIGHTS. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.

DESIGNATIONS
-N NEW
-E EXISTING
-D DEMO
-R RELOCATED

LIGHTING PLAN SYMBOL LEGEND

TYPICAL FIXTURE	LIGHTING FIXTURE EXISTING TO REMAIN
TYPICAL FIXTURE	LIGHTING FIXTURE TO BE REMOVED FROM LOCATION. SEE PLAN FOR NEW FIXTURE LOCATION (IF ANY).
ELECTRICAL FIXTURE	SHADING INDICATES THAT A FIXTURE IS WIRED TO A NIGHT LIGHT OR EMERGENCY TYPE CIRCUIT. FIXTURE SHALL BE WIRED IN ACCORDANCE WITH N.E.C. ARTICLE 700.
A-# TYPICAL FIXTURE (a) X	"X" = FIXTURE TYPE A-# = CIRCUIT NUMBER ab = SWITCH LEG
$	TOGGLE SWITCH
$3	THREE-WAY TOGGLE SWITCH
$O	OCCUPANCY SENSOR
$D	0-10V DIMMER
LRP	LIGHTING RELAY PANEL
OS	CEILING MOUNTED OCCUPANCY SENSOR

N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE
*0" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

PLAN NOTES

1	ALL NIGHT LIGHTS, EXIT SIGNS, AND NOTED EMERGENCY LUMINARIES TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING.
2	EXHAUST FAN TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT. EXHAUST FAN CONTROLLED VIA SWITCH ON THE WALL. EXHAUST FAN TO BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
3	EXTERIOR LIGHTS TO BE CONTROLLED BY PHOTOCELL LOCATED ON ROOF. PROVIDE LOCAL OVERRIDE SWITCH. LOCATION TO BE DETERMINED BY BUILDING OWNER.
4	2'X4' FIXTURES TO BE ATTACHED DIRECTLY TO THE BOTTOM OF JOISTS. 13'4" A.F.F.
5	PENDANT FIXTURE TO BE HUNG SUCH THAT THE BOTTOM THE LIGHT IS 10' A.F.F.
6	FIXTURE TO BE MOUNTED TO UNDERSIDE OF GIRDER.

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INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE

934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
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SEAL

STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER

EXPIRATION DATE: 12/31/2023

SIGNATURE

DATE

LIGHTING PLAN

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

E-101

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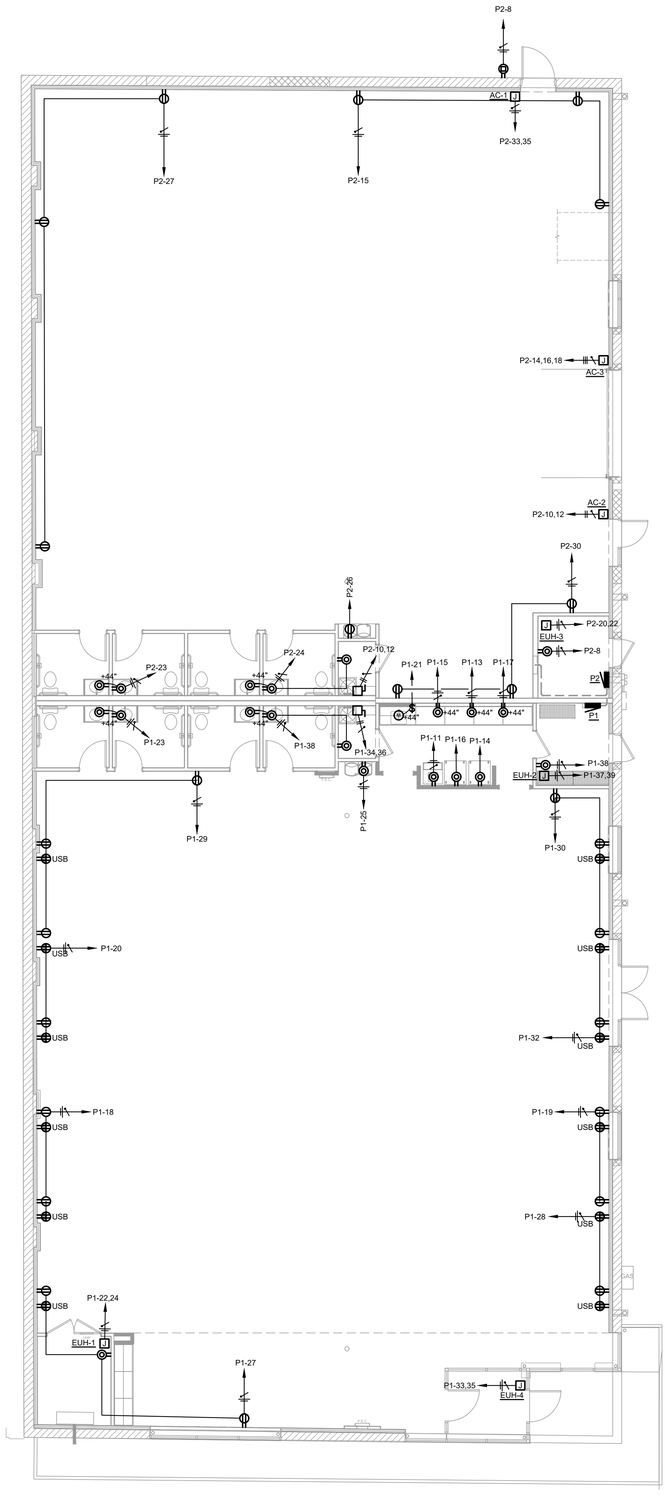


1 POWER PLAN
E-101 SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

ELECTRICAL GENERAL NOTES

1. THE TERM "PROVIDE" SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE WORKING SYSTEM.
2. RECEPTACLES SHALL BE CIRCUITED WITH A SEPARATE GROUND WIRE. RECEPTACLES PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER DEVICES SHALL EACH HAVE A SEPARATE NEUTRAL WIRE PULLED FOR THAT CIRCUIT.
3. ALL CONDUIT SHALL BE RUN CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB (ONLY WHERE SHOWN DASHED ON PLAN), UNLESS OTHERWISE NOTED ON PLAN. IN HIGH-BAY (NO CEILING) AREAS, RUN EXPOSED CONDUIT HIGH AS POSSIBLE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL. NO NONMETALLIC CONDUIT SHALL BE RUN IN AIR RETURN PLENUM.
4. FROM EACH TELEPHONE, CRT, TV, ETC., COMMUNICATION TYPE OUTLET, PROVIDE A (MIN.) 3/4-INCH CONDUIT (WITH PULL STRING) STUBBED ABOVE LAY-IN CEILING, UNLESS OTHERWISE NOTED.
5. TELEPHONE AND OTHER COMMUNICATIONS WIRING SHALL BE PLENUM RATED IF CONDUCTORS PASS THROUGH AN AIR RETURN PLENUM.
6. ELECTRICAL DRAWINGS SHALL BE COORDINATED WITH ASSOCIATED MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR FOR MOTORS, DEVICES, FIXTURES, ETC.. FOR EXACT LOCATIONS BEFORE ROUGH-IN OF CONDUIT SYSTEM.
7. MINIMUM CONDUIT SIZE IS 3/4 INCH, MINIMUM WIRE SIZE IS #12 AWG, UNLESS OTHERWISE NOTED ON PLANS OR IN CIRCUIT REVIEWS.
8. MOUNTING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.) ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
9. ALL WIRING SHALL BE INSTALLED PER THE NATIONAL ELECTRIC CODE (NEC). ALL WIRING SHALL BE SECURED AND SUPPORTED PER NEC 300.11.
10. CONTRACTOR SHALL INCLUDE THE COST TO SECURE ALL APPLICABLE PERMITS IN BASE BID.
11. ALL RECEPTACLES IN THE KITCHEN/PREP AREA SHALL BE GFCI WHETHER SHOWN AS SUCH OR NOT.
12. ALL EXIT AND EMERGENCY LIGHTING SHALL BE WIRED EITHER AHEAD OF LOCAL SWITCHING ON THE LOCAL AREA CIRCUIT OR ON A DEDICATED EXIT/EMERGENCY CIRCUIT. THE METHOD CHOSEN SHALL MEET THE REQUIREMENTS OF N.E.C. ARTICLE 700 AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
13. ALL 120V AND 277V CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING A NEUTRAL CONDUCTOR IS PROHIBITED.
14. ALL RECEPTACLES BEHIND VENDING MACHINES AND REFRIGERATORS TO BE GFCI WITH REMOTE AND OR ACCESSIBLE RESET.

POWER PLAN SYMBOL LEGEND

+0"	SIMPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	USB DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	SPECIAL USE DEDICATED RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED REFER TO PANEL SCHEDULE FOR MORE INFORMATION
+0"	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	WEATHER PROOF RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	QUADRUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	QUADRUPLEX USB RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	SIMPLEX RECEPTACLE WITH SPECIAL MOUNTING REQUIREMENTS. CLG = CEILING MOUNTED, CORD = CORD DROP, BLANK = FLOOR MOUNTED.
	DUPLEX RECEPTACLE WITH SPECIAL MOUNTING REQUIREMENTS. CLG = CEILING MOUNTED, CORD = CORD DROP, BLANK = FLOOR MOUNTED.
+0"	TELEPHONE JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	DATA JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	COMBINATION COMPUTER / PHONE JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
+0"	TELEVISION JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	JUNCTION BOX
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	MOTOR STARTER
	POWER POLE
M 1Ø MOTOR CONNECTION	M 3Ø MOTOR CONNECTION
A EXISTING / A NEW	FLUSH MOUNTED PANEL A = PANEL DESIGATION
A EXISTING / A NEW	SURFACE MOUNTED PANEL A = PANEL DESIGATION
	METER
A-B	HOME RUN A = PANEL DESIGATION B = CIRCUIT NUMBER

N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE
+0" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

PROJECT GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
2. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
3. EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
4. THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.
6. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.
7. SUBMIT FOR REVIEW SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. COMPLY WITH REQUIREMENTS OF DIVISION 1 SECTION "SUBMITTALS". MINIMUM NUMBER OF COPIES SHALL BE FOUR (4). MARK EACH INDIVIDUAL ITEM WITH PERTINENT SPECIFICATION SECTION AND PARAGRAPH NUMBER. SUBMITTAL WILL BE REJECTED IF SPECIFICATION AND PARAGRAPH NUMBER UNDER WHICH IT IS BEING SUBMITTED IS NOT IDENTIFIED.
8. IF THE SUBMITTAL DEVIATES FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE DEVIATION SHALL BE IDENTIFIED IN WRITING ON THE FIRST PAGE OF THE SUBMITTAL. IDENTIFY WHERE WITHIN THE CONTRACT DOCUMENTS THE DEVIATION OCCURS. THE DEVIATION SHALL ONLY BE CONSIDERED ACCEPTABLE IF THE IDENTIFIED DEVIATION HAS BEEN INITIALED BY THE ENGINEER. ANY DEVIATION NOT INITIALED MAY BE ASSUMED TO BE REJECTED. ALL COORDINATION REQUIRED DUE TO THE DEVIATION, SUCH AS SPACE ALLOCATION, CHANGES TO ELECTRICAL SERVICE, OR ANY OTHER REQUIRED CHANGES SHALL BE BORN AS WORK OF RESPECTIVE DIVISION BUT ACCOMPLISHED BY INSTALLERS SKILLED IN THE WORK BEING PERFORMED. NO COSTS INCURRED BY THE APPROVED DEVIATION SHALL BE BORN BY THE OWNER.
9. REVIEW OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE SPECIFIC REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR FOR FITTING THE EQUIPMENT IN THE SPACE ALLOTTED, WITH PROPER SPACE FOR CONNECTION OF PIPING OR DUCTWORK AND FOR SERVICING OR FOR COORDINATION OF THE WORK WITH WORK OF OTHER TRADES. APPROVAL OF DEVIATIONS ALSO DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH ALL OTHER ASPECTS OF THE CONTRACT DOCUMENTS.
10. REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE PROJECT DOCUMENTS. RESPONSIBILITY FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND ESTABLISHING TECHNIQUES OF CONSTRUCTION RESIDES WITH CONTRACTOR. REVIEW SUBCONTRACTORS' SUBMITTALS AND SHOP DRAWINGS AND INDICATE BY RUBBER STAMP OR LETTER THAT THEY HAVE BEEN REVIEWED AND APPROVED BEFORE FORWARDING THEM. SUBMITTALS AND DRAWINGS WILL BE RETURNED AFTER REVIEW INDICATING WHETHER OR NOT EXCEPTIONS ARE TAKEN AND THE REQUIRED PROCEDURE TO BE FOLLOWED THEREAFTER. REVISED AND ACCEPTABLE SUBMITTALS AND SHOP DRAWINGS ARE REQUIRED BEFORE CONSTRUCTION IS BEGUN. INCLUDE DIMENSIONAL DATA AND WEIGHTS OF EQUIPMENT. INCLUDE MOTOR MANUFACTURERS' NAMES.
11. IN GENERAL, THE ARCHITECT AND/OR HIS CONSULTANTS WILL REVIEW EACH SUBMITTAL AS INDICATED ABOVE. IF SUBMITTAL DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS AS INDICATED BY THE SUBMITTAL BEING MARKED "REJECTED" AND "RESUBMIT", BE RESPONSIBLE TO THE OWNER FOR ANY ADDITIONAL COSTS THE OWNER INCURS DUE TO REVIEW OF FOLLOW-ON SUBMITTALS.
12. INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS AND INCLUDE VERTICAL MEASUREMENT FROM FLOOR TO BOTTOM OF PIPING, DUCTWORK, AND ELEVATED EQUIPMENT. PIPING DRAWINGS SHALL INCLUDE ACCESS PANEL LOCATIONS, VALVES, SLEEVES, LOCATION OF SUPPORTS, ETC. DUCTWORK DRAWINGS SHALL INCLUDE ACCESS PANEL LOCATIONS (IN DUCT AND BUILDING CONSTRUCTION TO OBTAIN ENTRY TO SERVICE AND MAINTAIN DUCT MOUNTED EQUIPMENT), VANES, SCOOPS, SPLITTERS, DAMPERS, GRILLES, DIFFUSERS, COILS, ETC. VERTICAL MEASUREMENT SHALL BE INDICATED AT ALL CHANGES IN DIRECTION OF PIPING AND DUCTWORK. MEASUREMENT SHALL BE MADE TO THE OUTSIDE SURFACE OF EXTERIOR INSULATED DUCTING AND PIPING. MEASUREMENTS SHALL INCLUDE CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION; SERVICING AND MAINTAINING EQUIPMENT; SPACE FOR EQUIPMENT DISASSEMBLY FOR PERIODIC MAINTENANCE; AND SHOWING AREAS FOR TUBE, FILTER, AND COIL REMOVAL. PROVIDE DETAILS OF CONNECTIONS AND SUPPORTS, EXTERIOR WALL AND FOUNDATION PENETRATIONS, SIZES AND LOCATIONS OF CONCRETE HOUSEKEEPING PADS, AND INDICATE SPACE FOR VALVE STEM MOVEMENT. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
13. PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS. INCLUDE LOCATION OF SLEEVES IN FLOORS, WALLS, AND CEILINGS. PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, AIR OUTLETS AND INLETS, LIGHT FIXTURES, COMMUNICATION SYSTEM COMPONENTS, SPRINKLERS, SMOKE DETECTORS, AND OTHER CEILING MOUNTED ITEMS.
14. PROVIDE DIGITAL COPIES OF FINAL COORDINATION DRAWINGS, SEPARATED BY TRADE, TO THE OWNER IN DWG AND/OR PDF FILE FORMATS.
15. MECHANICAL DUCTWORK PRIORITY OVER ALL OTHER SYSTEMS BEING INSTALLED (MEP) ABOVE CEILING. REROUTING OF INSTALLED SYSTEMS DUE TO UNCOORDINATED DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
16. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, FLA, MCA, MOCP, MAXIMUM FUSE SIZE AND HORSEPOWER AND SHALL NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT UNLESS FURNISHED INTEGRAL WITH EQUIPMENT PACKAGE.
17. THESE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE GENERALLY DIAGRAMMATIC AND ARE NOT TOO BE SCALED. WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, THE CONTRACTOR SHALL COORDINATE THE WORK TO AVOID INTERFERENCES WITH THE OTHER TRADES. THE CONTRACTOR SHALL CONFIRM AND CORRELATE ALL DIMENSIONS AT THE JOB SITE.

E2M CONSULTING ENGINEERING
682 TUXEDO PLACE
CINCINNATI, OH 45206
TEL: 513.587.0050
www.e2m-eng.com

INTERIOR IMPROVEMENTS FOR:

PARAMOUNT SQUARE
934 E McMillen St.
Cincinnati, Ohio 45206

NO.	DATE	ISSUED FOR
	09.01.23	PRICING & PERMIT

SEAL
STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023
SIGNATURE
DATE

POWER PLAN

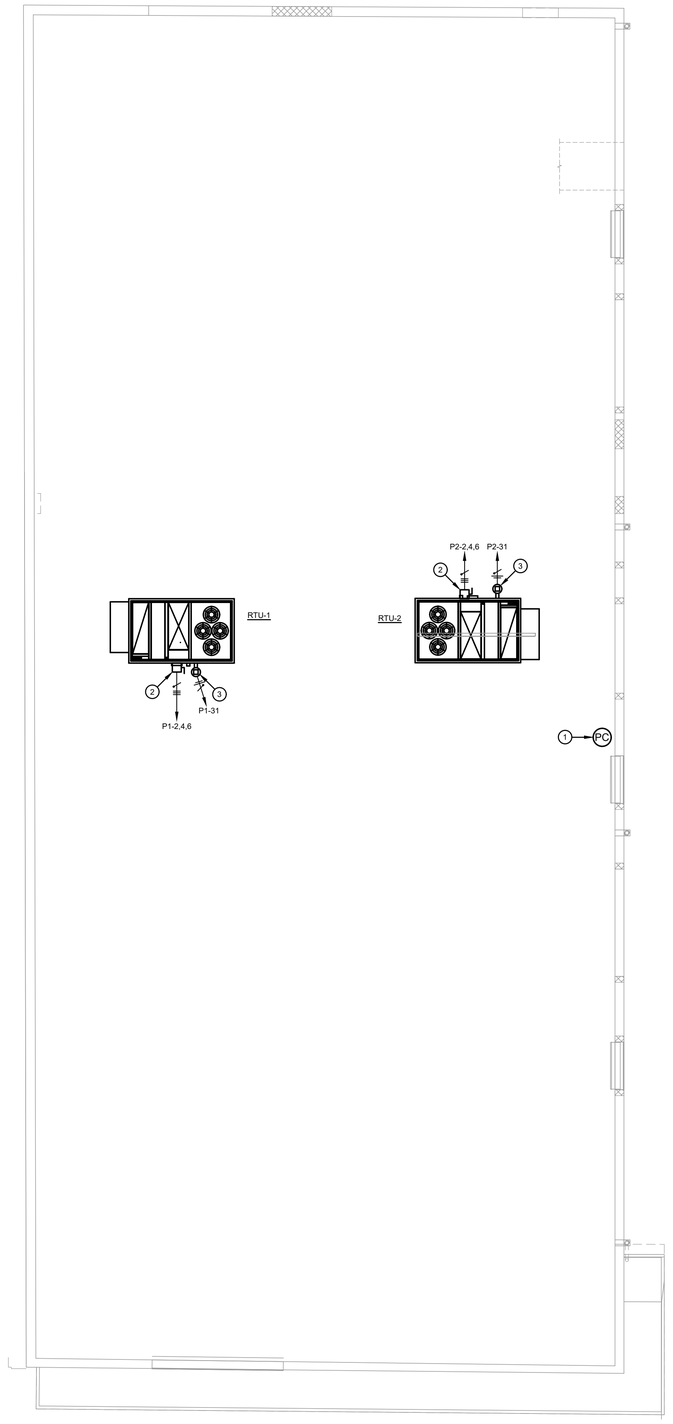
DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

E-102

PLOTTED BY KEVIN ON Friday, September 1, 2023 4:35:23 PM. FILE LOCATION: Z:\1. PROJECTS CURRENT\23182 PARAMOUNT SQUARE\++WORKING FILES\PARAMOUNT SQUARE\SHEETS\23182-E-102.DWG

PLAN NOTES

1	PROVIDE PHOTOCELL FOR EXTERIOR LIGHTING CIRCUITS.
2	ROOFTOP UNIT PROVIDED WITH FACTORY INSTALLED DISCONNECT. PROVIDE ALL WIRING AND MAKE FINAL CONNECTION. COORDINATE WITH MECHANICAL CONTRACTOR.
3	ROOFTOP UNIT PROVIDED WITH FACTORY INSTALLED UNPOWERED RECEPTACLE. PROVIDE ALL WIRING AND MAKE FINAL CONNECTION. COORDINATE WITH MECHANICAL CONTRACTOR.



1 E-101 ROOF POWER PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

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NO.	DATE	ISSUED FOR
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SEAL
STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023

SIGNATURE

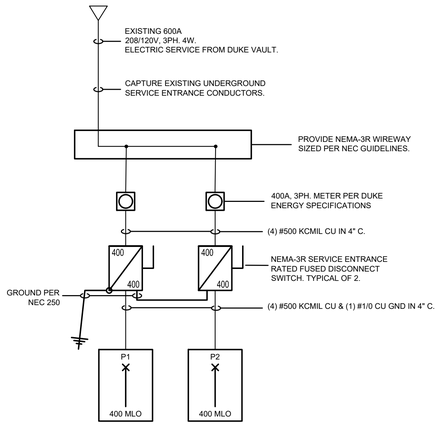
DATE

ROOF POWER PLAN

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

E-202

PLOTTED BY KEVIN ON Friday, September 1, 2023 4:35:46 PM FILE LOCATION Z:\1. PROJECTS CURRENT\23182 PARAMOUNT SQUARE\++WORKING FILES\PARAMOUNT SQUARE\SHEETS\23182-E-202 ROOFTOP POWER PLAN.DWG



1 E-101 SINGLE LINE RISER DIAGRAM
SCALE: NONE

Volts	Phase	Wire	Panel Type	Electrical Panel Schedule P1						Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Lug Only							400 Amps	Surface	TBD	

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	20	1		Floor Lighting	1,440			10,435			RTU-1		3	100	2
3	20	1		Floor Lighting		1,440			10,435						4
5	20	1		Sconces & E-Lights			756			10,435					6
7	20	1		Pendant Lighting	1,008			1,374			Exterior Lighting		1	20	8
9	20	1		Kitchen/Bathroom Lighting		432			798		Pendant Lighting		1	20	10
11	20	1		Ice Machine			500			591	Entry Lighting		1	20	12
13	20	1	GF	Kitchen Rcpt.	180			180			Kitchen Rcpt.	GF	1	20	14
15	20	1	GF	Kitchen Rcpt.		180			180		Kitchen Rcpt.	GF	1	20	16
17	20	1	GF	Kitchen Rcpt.			180			720	Floor Receptacles		1	20	18
19	20	1		Floor Receptacles	540			540			Floor Receptacles		1	20	20
21	20	1		Garbage Disposal		500			937		EUH-1		2	15	22
23	20	1		Bathroom Rcpts.			360			937					24
25	20	1	GF	Watercooler	500			540			Floor Receptacles		1	20	26
27	20	1		Floor Receptacles		720			720		Floor Receptacles		1	20	28
29	20	1		Floor Receptacles			720			500	Garbage Disposal	GF	1	20	30
31	20	1		RTU-1 Convenience Rcpt.	180			540			Floor Receptacles		1	20	32
33	20	2		EUH-4		1,000			2,250		Water Heater		2	30	34
35							1,000			2,250					36
37	15	2		EUH-2	937			540			Bathroom & Janitor Closet Rcpts.		1	20	38
39						937					Spare		1	20	40
41	20	1		Spare							Spare		1	20	42
43															44
45															46
47															48
49															50
51															52
53															54

Total Connected Load Phase A:	18,934
Total Connected Load Phase B:	20,529
Total Connected Load Phase C:	18,949
Total Connected Load:	58,412 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	8,160	100%	8,160
Receptacles > 10,000	0	50%	0
Lighting Loads	7,839	125%	9,799
Track Lighting	0Ft	75W/Ft	0
Motor Loads	0	100%	0
Largest Motor	31,305	125%	39,131
Cooling Loads	0	100%	0
Heating Loads	5,748	100%	5,748
Continuous Loads	4,500	125%	5,625
Non-Continuous Loads	0	100%	0
Kitchen Equipment Loads	860	90%	774
Existing Panel Demand		125%	0
Sub-Total:			69,237
Total Connected Ampacity:			192.18
Total Connected Load %:			48%

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

Volts	Phase	Wire	Panel Type	Electrical Panel Schedule P2						Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Lug Only							400 Amps	Surface	TBD	

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	20	1		Space				10,435			RTU-2		3	100	2
3	20	1		Space					10,435						4
5	20	1		Floor Lighting			1,318			10,435					6
7	20	1		Bathroom/Janitorial Lighting	216			180			Exterior/Electric Room Rcpt.		1	20	8
9	20	1		Space					4,000		AC-1		2	50	10
11	20	1		Spare						4,000					12
13	20	1		Space				8,667			AC-3		3	90	14
15	20	1		Floor Rcpts.		540			8,667						16
17	20	1		Space						8,667					18
19	20	1		Space				937			ELH-3		2	15	20
21	20	1		AC-2					937						22
23	20	1		Restroom Rcpts.			360			540	Restroom & Janitor Closet Rcpts.		1	20	24
25	20	1		Rcpt.	180			250			Watercooler	GF	1	20	26
27	20	1		Floor Rcpts.		540					Spare		1	20	28
29	20	1		Space						540	Floor Rcpts.		1	20	30
31	20	1		RTU-2 Convenience Rcpt.	180			1,500			Water Heater		2	20	32
33	40	2		AC-2		3,050			1,500						34
35							3,050								36
37															38
39															40
41															42

Total Connected Load Phase A:	22,545
Total Connected Load Phase B:	29,669
Total Connected Load Phase C:	28,910
Total Connected Load:	81,124 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	3,000	100%	3,000
Receptacles > 10,000	0	50%	0
Lighting Loads	1,534	125%	1,918
Track Lighting	0Ft	75W/Ft	0
Motor Loads	0	100%	0
Largest Motor	31,305	125%	39,131
Cooling Loads	0	100%	0
Heating Loads	41,975	100%	41,975
Continuous Loads	3,000	125%	3,750
Non-Continuous Loads	250	100%	250
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			90,084
Total Connected Ampacity:			250.05
Total Connected Load %:			63%

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.

Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/1 10%.

ze

GENERAL NOTES - RISER DIAGRAM

A. PARALLEL FEEDER CONDUCTORS SHALL BE CUT TO THE EXACT SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS FOR SAME WORK SHALL BE TORQUED TO IDENTICAL VALUES.

B. EXTERIOR ELECTRICAL WORK SHALL NOT ONLY BE WEATHERPROOF AND WATER TIGHT, BUT SHALL BE RUST RESISTANT.

C. CONDUCTORS BELOW GRADE OR SUBJECT TO MOISTURE SHALL BE 'XHHW-2'.

D. PROVIDE FACTORY SERIES COORDINATION FOR ALL CIRCUIT BREAKERS. (INCLUDING ALL BRANCH BREAKERS). RELATIVE TO "UPSTREAM" BREAKERS, SO THAT ONLY THE BREAKER CLOSEST IN THE CIRCUIT TO THE LOAD TRIPS UPON AN OVERLOAD OF FAULT CONDITION.

E. POWER DISTRIBUTION EQUIPMENT SUPPLIER SHALL PROVIDE APPROPRIATELY RATED AND BRACED TO ACCOMMODATE THE AVAILABLE FAULT CURRENT AT THE UTILITY COMPANY TRANSFORMER SECONDARIES. THIS SUPPLIER SHALL ACCORDINGLY PROVIDE ANY RELATED CALCULATIONS SO THAT THEIR EQUIPMENT IS PROPERLY COORDINATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SUPPLIER WITH COPIES OF THE ELECTRICAL DOCUMENTS AS REQUIRED SO THAT PROPERLY RATED/BRACED EQUIPMENT IS PROVIDED UNDER BASE BID.

F. GROUNDING ELECTRODE CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-66. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

G. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-122. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

H. WORKING CLEARANCES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, STARTERS, DISCONNECTS, ETC. AS APPLICABLE) IN STRICT COMPLIANCE WITH NEC CHAPTER 1, PART B SECTION 110-25(a). LOCATIONS SHOWN ON THE FLOOR PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE RESPNSIBLE FOR ENSURING COMPLIANCE WITH THE ABOVE NEC REFERENCE. THIS REQUIREMENTS APPLIES TO EQUIPMENT ON FLOOR PLANS AS WELL AS TO EQUIPMENT SHOWN ON THE RISER.

I. HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. LOCATE ANY RELATED PULL BOXES SO THAT THEY WILL BE FULLY ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. AS WITH ALL WORK, COORDINATE IN ADVANCE WITH OTHER TRADES.

J. ROUTE FEEDER CONDUITS BELOW GRADE WHEREVER POSSIBLE. VERY LIMITED SPACE EXISTS ABOVE ACOUSTICAL TILE CEILINGS AND MANY, IF NOT MOST, OF THE SPACE ABOVE GYPSUM BOARD CEILINGS IS NOT AVAILABLE FOR RUNNING CONDUIT. STUDY ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS VERY CAREFULLY BEFORE LAYING OUT FEEDER ROUTES.

K. ALL PANELS HAVE NEMA 1 ENCLOSURES UNLESS OTHERWISE NOTED.

L. ALL PANELS ARE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

SINGLE LINE SYMBOL LEGEND

	CIRCUIT BREAKER
	FUSE
	UTILITY METER
NF	NON-FUSED DISCONNECT
F	FUSIBLE DISCONNECT
Y X	PANELBOARD, MAIN LUG ONLY WITH FEED THROUGH LUGS Y= RATING X= NAME
Y X	PANELBOARD, MAIN LUGS ONLY Y= MAIN LUGS RATING X = NAME
Y X	PANELBOARD, MAIN CIRCUIT BREAKER Y = MCB RATING X = NAME
Z	MOTOR - SINGLE PHASE Z = HP RATING
Z	MOTOR - THREE PHASE Z = HP RATING
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION

PANEL SCHEDULE NOTES

1. NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL MATCH PANEL MANUFACTURER, VOLTAGE LEVEL AND FAULT CURRENT RATING OF EXISTING PROTECTIVES.
2. IDENTIFY MAIN DISCONNECTS AND ALL UP AND DOWNSTREAM DISCONNECTING MEANS FOR ALL CIRCUITS AT PANEL.
3. FILL OUT BRANCH CIRCUIT DIRECTORY INDICATING CIRCUIT NUMBERS, AREA(S) SERVED, AND LOAD TYPE. INDEX SHALL BE NEATLY TYPED. BRANCH CIRCUIT DIRECTORIES SHALL BE UPDATED OR REPLACED IN ALL AREAS OF ALTERATIONS.
4. BLACK LAMINATED PHENOLIC NAMEPLATES SHALL BE PROVIDED ON ALL NEW AND EXISTING PANEL BOARDS SECURED BY #8-32 SCREWS, LOCK WASHERS AND NUTS ON EACH CORNER OF NAMEPLATE.
5. CONTRACTOR MAY ARRANGE CIRCUITS TO SUIT FIELD CONDITIONS, BUT LOADING BETWEEN PHASES SHALL BE +/- 10%.

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STATE OF OHIO
LAWRENCE S. AYER
56787
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2023

SIGNATURE

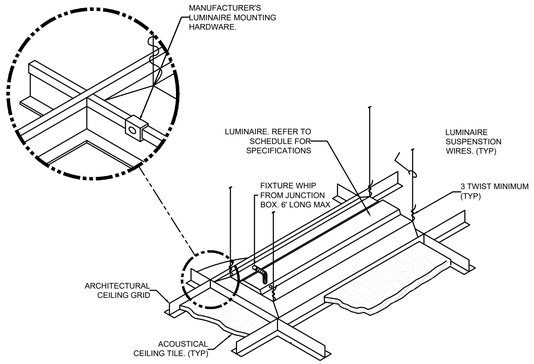
DATE

SINGLE LINE AND PANEL SCHEDULES

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

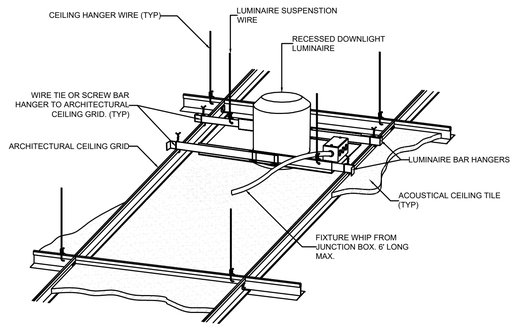
E-501

PLOTTED BY KEVIN ON Friday, September 1, 2023 4:36:07 PM. FILE LOCATION: Z:\1. PROJECTS CURRENT\23182 PARAMOUNT SQUARE\++WORKING FILES\PARAMOUNT SQUARE\SHEETS\23182-E-501.DWG



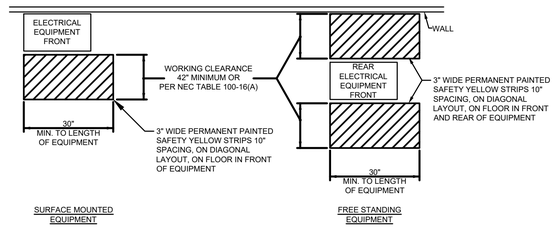
1 E-601 TYPICAL RECESSED LED TROFFER DETAIL

SCALE: NONE



2 E-601 DOWNLIGHT MOUNTING DETAIL

SCALE: NONE

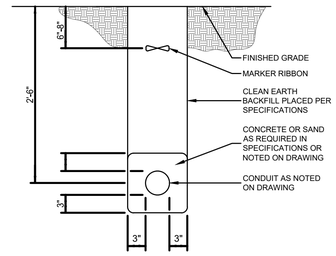


NOTES:

1. PAINTED AREAS (DENOTING NEC "WORKING CLEARANCE") REQUIRED IN MECHANICAL ROOMS, CLOSETS AND OTHER AREAS AS SHOWN ON THE DRAWINGS OR IN THE AREAS REQUESTED BY THE ENGINEER.
2. PAINTED AREAS NOT TO BE PROVIDED IN CORRIDORS, OFFICES AND FINISHED ROOMS.
3. PAINTING TO BE PROVIDED AS SOON AS FLOOR INSTALLATION ALLOWS. AREAS ARE TO BE RE-PAINTED BEFORE OCCUPANCY.
4. PAINT SHALL BE GLIDDEN URETHANE GLOSS ENAMEL, NO. 6000 SERIES OR APPROVED EQUAL.

3 E-601 WORKING CLEARANCE FOR EQUIPMENT DETAIL

SCALE: NONE



NOTES:

1. USE BURIAL DEPTH SHOWN UNLESS NOTED OTHERWISE IN SPECIFICATIONS OR ON DRAWINGS. BURIAL DEPTHS FOR CONDUITS TO BE USED BY UTILITY COMPANIES SHALL BE AS DIRECTED BY THE UTILITY COMPANY.
2. MULTIPLE CONDUITS SHALL BE PLACED 7 1/2" ON CENTER WITH A MINIMUM OF 3" OF CONCRETE OR SAND BETWEEN ANY CONDUIT AND EARTH.

4 E-601 UNDERGROUND CONDUIT DETAIL

SCALE: NONE

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EXPIRATION DATE: 12/31/2023

SIGNATURE

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ELECTRICAL DETAILS

DRAWN BY:	MAS/DCA
CHECKED BY:	KJR
SCALE:	AS NOTED
JOB NUMBER:	23182
START DATE:	07/28/2023

E-601

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