

Modernization Project 2026 at:

Grayhill Apartments

220 Montgomery Avenue
Springfield, Ohio 45506



OWNER



Springfield Metropolitan
Housing Authority
2026 W. Main Street
Springfield, Ohio 45504

DESIGN TEAM

ARCHITECT:



PME ENGINEER:



ENVIRONMENTAL CONSULTANT:



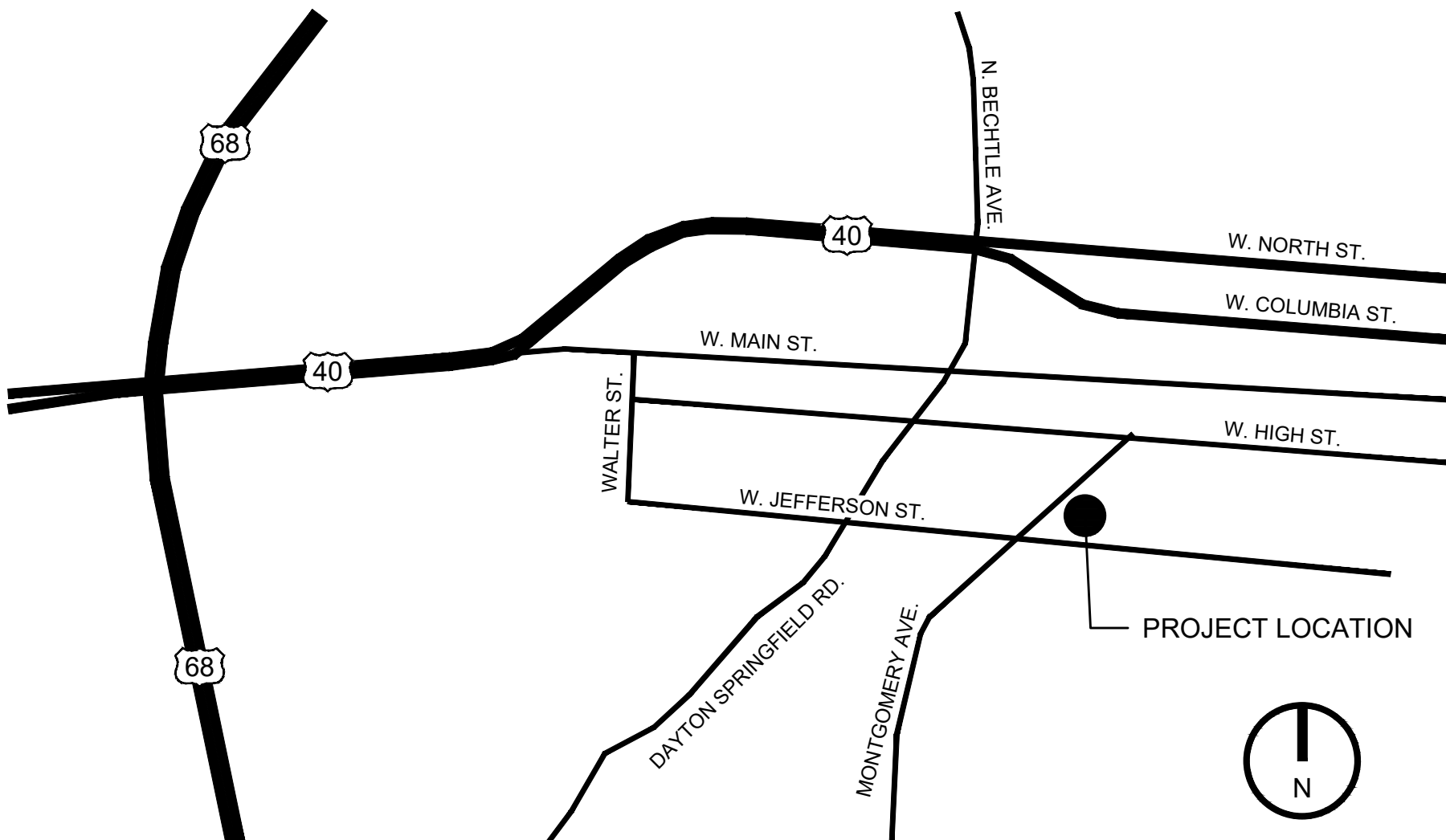
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THE BUILDING CONTAINS AN EXISTING FIRE ALARM SYSTEM WHICH IS TO REMAIN ACTIVE DURING THE PROJECT. CONTRACTOR TO COORDINATE WITH OWNERS VENDOR (SILCO) AND INCLUDE ANY & ALL MODIFICATIONS, REMOVAL & REINSTALLATION OF DEVICES, ETC. THAT MAY BE REQUIRED AS A RESULT OF THE WORK OF THIS PROJECT. SYSTEM DESIGN PER NFPA 72, SYSTEM DESIGN, PERMIT DRAWINGS, ETC. IS A DELEGATED DESIGN BY OTHERS, UNDER CONTRACTOR'S SCOPE.

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VICINITY MAP



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CODE REVIEW

PROJECT DESCRIPTION:
LIMITED SCOPE MODERNIZATION OF GRAYHILL HOMES. WORK GENERALLY INCLUDES THE FOLLOWING:
-INTERIOR FINISH REPLACEMENT / UPGRADES IN THE COMMON AREAS (GENERALLY IN LIKE KIND REPLACEMENT)
-SPATIAL RECONFIGURATION OF THE OFFICES AT THE FIRST FLOOR
-REPLACEMENT OF DWELLING UNIT WINDOWS IN LIKE KIND
-COMMON AREA PLUMBING, MECHANICAL AND ELECTRICAL IMPROVEMENTS
-REPLACEMENT OF THE STEEP SLOPE ROOF SYSTEMS
-REPLACEMENT OF THE LOW SLOPE ROOF SYSTEMS

AUTHORITY HAVING JURISDICTION:
ZONING PERMIT - CITY OF SPRINGFIELD
BUILDING PERMIT - CITY OF SPRINGFIELD
ZONING CODE:
CITY OF SPRINGFIELD ZONING CODE

BUILDING CODE:
2024 OBCB [OHIO EXISTING BUILDING CODE]
2024 OBC [OHIO BUILDING CODE]
2021 INTERNATIONAL ENERGY CONSERVATION CODE [IECC 2021]

2024 OHIO EXISTING BUILDING CODE
OBCB CHAPTER 5: PROVISIONS FOR ALL COMPLIANCE METHODS
301.3 ALTERATION, ADDITION, OR CHANGE OF OCCUPANCY - MUST COMPLY WITH ONE OF THE METHODS IN SECTIONS 301.3.1, 301.3.2, OR 301.3.3
301.3.2 WORK AREA COMPLIANCE METHOD: ALTERATIONS, ADDITIONS, AND CHANGES OF OCCUPANCY COMPLYING WITH SECTIONS 302 THROUGH 309 AND THE APPLICABLE REQUIREMENTS OF CHAPTERS 8 THROUGH 12 OF THIS CODE ARE TO BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.
302.3 EXISTING MATERIALS ALREADY IN USE IN A BUILDING IN COMPLIANCE WITH REQUIREMENTS OR APPROVALS IN EFFECT AT THE TIME OF THEIR ERECTION OR INSTALLATION SHALL BE PERMITTED TO REMAIN IN USE UNLESS DETERMINED BY THE CODE OFFICIAL TO BE UNSAFE.
302.5 OCCUPANCY AND USE - DETERMINED PER OBC CHAPTER 3 [SEE NOTES]
303 STORM SHELTERS: NOT APPLICABLE
304 STRUCTURAL DESIGN LOADS: NOT APPLICABLE [NO CHANGE TO EXISTING STRUCTURAL LOADS]
305 IN-SITU LOAD TESTS: NOT APPLICABLE
306 ACCESSIBILITY FOR EXISTING BUILDINGS: NOT APPLICABLE. NO CHANGE TO BUILDING ACCESSIBILITY, ACCESSIBLE ROUTE, ACCESSIBLE TOILET ROOMS, ETC.
307 SMOKE ALARMS: NOT APPLICABLE. NO CHANGE TO DWELLING UNIT / SLEEPING ROOMS - EXCEPTION 1: WINDOW REPLACEMENT DOES NOT REQUIRE SMOKE ALARM UPGRADES.
308 CARBON MONOXIDE DETECTION - NOT APPLICABLE
309 EXTERIOR WALL COVERINGS / ENVELOPES - NOT APPLICABLE - THE REPLACEMENT OF SIDING IS LESS THAN 2 STORIES, AND LESS THAN 15% OF THE TOTAL WALL AREA ON ANY SIDE OF THE BUILDING.

OBCB CHAPTER 6: CLASSIFICATION OF WORK
602.1 ALTERATION - LEVEL 1
LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR COVERINGS OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES UNITS NEW THAT SERVE THE SAME PURPOSE
602.2 APPLICATION: LEVEL 1 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7.
603.1 ALTERATION - LEVEL 2
SCOPE: LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OR EXTENSION OF ANY SYSTEMS, THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, WHERE THE WORK AREA IS EQUAL TO OR LESS THAN 50% OF THE BUILDING AREA.
603.2 APPLICATION: LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 8.

OBCB CHAPTER 7: ALTERATIONS-LEVEL 1
705.1: RE-ROOFING - REFER TO CHAPTER 15 OF OHIO BUILDING CODE
ROOF REPLACEMENT OR ROOF RECOVER OF EXISTING LOW SLOPE ROOF COVERINGS SHALL NOT BE REQUIRED TO MEET MINIMUM DESIGN SLOPE OF 1/4" PER 12". FOR ROOFS WHICH PROVIDE POSITIVE DRAINAGE
RECOVERING OR REPLACING AN EXISTING ROOF COVERING SHALL NOT BE REQUIRED TO MEET THE REQUIREMENT FOR SECONDARY [EMERGENCY OVERFLOW] DRAINS OR SCUPPERS FOR ROOFS WHICH PROVIDE FOR POSITIVE ROOF DRAINAGE. EXISTING SECONDARY DRAINS OR SCUPPERS SHALL NOT BE REMOVED.

OBCB CHAPTER 8: ALTERATIONS-LEVEL 2
801.3 SYSTEM INSTALLATIONS - REQUIREMENTS RELATED TO WORK AREA ARE NOT APPLICABLE WHERE THE LEVEL 2 ALTERATIONS ARE LIMITED SOLELY TO ONE OR MORE OF THE FOLLOWING: MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS
801.4 COMPLIANCE - NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS, AND SPACES SHALL COMPLY WITH THE BUILDING CODE.
802.2 VERTICAL OPENINGS - NOT APPLICABLE
802.3 SMOKE COMPARTMENTS - NOT APPLICABLE
802.4 INTERIOR FINISH - INTERIOR FINISH AND TRIM OF WALLS AND CEILINGS IN EXITS AND CORRIDORS IN ANY WORK AREA TO COMPLY WITH BUILDING CODE. EXCEPTION - EXISTING MATERIALS THAT DO NOT COMPLETELY BE PERMITTED TO BE TREATED WITH AN APPROVED FIRE-RETARDANT COATING TO ACHIEVE THE REQUIRED CLASSIFICATION.
802.5 GUARDS - NOT APPLICABLE
803.2 FIRE PROTECTION - THE BUILDING HAS A SPRINKLER SYSTEM. WILL REMAIN IN OPERATION. MODIFICATIONS PER DELEGATED DESIGN SUBMITTAL BY SPRINKLER SYSTEM DESIGNER.
803.2.2 FIRE PROTECTION - BUILDING HAS A SPRINKLER SYSTEM.
803.2.6 FIRE SPRINKLER SYSTEMS ARE CURRENTLY MONITORED - NO CHANGE.
803.3 STANDPIPES - EXISTING. NO CHANGE AS PART OF THIS PROJECT.
803.4 FIRE ALARM AND DETECTION - BUILDING HAS A FIRE ALARM SYSTEM. WILL REMAIN IN OPERATION. MODIFICATIONS PER DELEGATED DESIGN SUBMITTAL BY FIRE ALARM DESIGNER.
804.1 MEANS OF EGRESS - NO CHANGE BY THE WORK OF THIS PERMIT.
804.6.1 CORRIDOR DOORS - ALL DOORS OPENING ONTO AN EXIT PASSAGEWAY SHALL HAVE CLOSERS. CLOSERS ARE BEING ADDED TO EXISTING DOORS FROM THE CORRIDOR.
804.6.3 OTHER CORRIDOR OPENINGS - ANY OTHER GRILLE OR OPENING IN A CORRIDOR, SEALED WITH MATERIALS CONSISTENT WITH CORRIDOR CONSTRUCTION.
804.8 MEANS OF EGRESS LIGHTING - PROVIDED [ON GENERATOR]
804.9 EXITS SIGNS - PROVIDED
805.1 STRUCTURAL - NO IMPACT / CHANGE BY THE WORK OF THIS PERMIT.
806.1 ELECTRICAL - COMPLY WITH NFPA 70 FOR NEW WORK.
807.1 MECHANICAL - COMPLY WITH OMC.
808.1 PLUMBING - COMPLY WITH OBC
809.1 ENERGY CONSERVATION - NOT APPLICABLE WITH THE EXCEPTION OF THE NEW SYSTEMS BEING INSTALLED.

2024 OHIO BUILDING CODE
OBC CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
304.1 USE GROUP B - FIRST FLOOR OFFICES / COMMUNITY ROOM
310.1 USE GROUP R-2 - APARTMENTS
311.1.1 ACCESSORY STORAGE SPACE - CLASSIFY AS PART OF THE MAIN OCCUPANCY
OBC CHAPTER 4: SPECIAL DETAILED REIGNTS BASED ON USE/OCCUPANCY
420.2 SEPARATION WALLS - CONSTRUCT AS FIRE PARTITIONS PER OBC 708
420.3 HORIZONTAL SEPARATION - CONSTRUCT AT HORIZONTAL ASSEMBLIES PER OBC 711
420.4 SPRINKLER SYSTEM - REQUIRED [PROVIDED]
420.5 FIRE ALARM SYSTEM - REQUIRED [PROVIDED]

OBC CHAPTER 5: GENERAL BUILDING HEIGHT AND AREA
TABLE 504.3: ALLOWABLE HEIGHT:
USE 'B', SPRINKLERED, TYPE III B = 75'
USE 'R-2', SPRINKLERED, TYPE III B = 75'
EXISTING HEIGHT = 36' = OK
TABLE 504.4: ALLOWABLE STORIES:
USE 'B', SPRINKLER, TYPE III B = 4 STORIES
USE 'R-2', SPRINKLERED, TYPE III B = 5 STORIES
EXISTING STORIES = 4 STORIES = OK
TABLE 506.2: ALLOWABLE AREA:
USE 'B', SPRINKLERED, TYPE III B = 57,000 SF PER STORY
USE 'R-2', SPRINKLERED, TYPE III B = 48,000 SF PER STORY
EXISTING BUILDING AREA:

GROUND FLOOR	BUILDING AREA	WORK AREA
GROUND FLOOR	+/- 18,340 SF	+/-4,578 SF
FIRST FLOOR	+/- 25,562 SF	+/-7,844 SF
SECOND FLOOR	+/- 22,298 SF	+/-4,578 SF
THIRD FLOOR	+/- 10,170 SF	+/-2,885 SF
TOTAL BUILDING AREA	+/- 76,368 SF	+/-19,885 SF

[OK W/ ALLOWABLE AREA]

506.3 FRONTAGE INCREASE - NONE CALCULATED
508.2 ACCESSORY OCCUPANCIES
ASSEMBLY [COMMUNITY ROOM] = 180 SF
508.2.4 SEPARATION OF OCCUPANCIES - NONE REQUIRED AT ACCESSORY OCCUPANCIES
508.3 NON-SEPARATED OCCUPANCIES
MOST RESTRICTIVE USE SHALL GOVERN FOR CHAPTER 9
MOST RESTRICTIVE USE SHALL GOVERN BUILDING HEIGHT / AREA
509.1 INCIDENTAL USE AREAS - NO CHANGE TO EXISTING

OBC CHAPTER 6: TYPES OF CONSTRUCTION
TABLE 601:
PRIMARY STRUCTURAL FRAME = 0 HOUR
EXTERIOR BEARING WALLS = 2 HOUR
EXTERIOR BEARING WALLS = 0 HOUR
NON-BEARING WALLS = 0 HOUR
FLOOR CONSTRUCTION = 0 HOUR
ROOF CONSTRUCTION = 0 HOUR
602.3 CONSTRUCTION TYPE: II-B [NON-COMBUSTIBLE EXTERIOR, WOOD INTERIOR]

OBC CHAPTER 7: FIRE-RESISTANCE RATED CONSTRUCTION
708.1 FIRE PARTITIONS - CORRIDOR WALLS, DWELLING SEPARATION WALLS - 1 HOUR REQUIRED [PROVIDED]
708.4 CONTINUITY OF FIRE PARTITIONS - EXCEPTION 2 FIRE PARTITIONS SERVING AS A CORRIDOR WALL SHALL NOT BE REQUIRED TO BE CONTINUOUS ABOVE THE LOWER MEMBRANE OF A CORRIDOR CEILING PROVIDED THE CORRIDOR CEILING MEMBRANE IS EQUIVALENT TO THE CORRIDOR WALL MEMBRANE AND [EITHER OF] THE FOLLOWING CONDITIONS IS MET: THE BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT PER OBC 903.3.1.1 INCLUDING AUTOMATIC SPRINKLERS INSTALL IN THE SPACE BETWEEN THE TOP OF THE FIRE PARTITION AND THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, DECK OR SLAB ABOVE
708.4.2 FIREBLOCKS AND DRAFTSTOPS - IN COMBUSTIBLE CONSTRUCTION WHERE FIRE PARTITIONS DO NOT EXTEND TO THE UNDERSIDE OF THE ROOF OR ROOF SHEATHING, DECK OR SLAB ABOVE, THE SPACE ABOVE AND ALONG THE LINE OF THE FIRE PARTITION SHALL BE PROVIDED WITH [ONE OF] THE FOLLOWING: FIREBLOCKING / DRAFTSTOPS - EXCEPTION 1 - BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED THROUGHOUT PER OBC 903.3.1.1 AND THAT THE PROTECTION IS PROVIDED IN THE SPACE BETWEEN THE TOP OF THE FIRE PARTITION AND THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, DECK, OR SLAB ABOVE.
708.6 OPENINGS IN FIRE PARTITIONS - PER OBC 716
708.7 PENETRATIONS IN FIRE PARTITIONS - PER OBC 714
708.8 JOINTS MADE IN FIRE PARTITIONS - PER OBC 715
711.2.4.3 HORIZONTAL ASSEMBLIES SEPARATING DWELLING UNITS - 1 HOUR RATED [PROVIDED]
714.4.1.2 THROUGH PENETRATIONS PROTECTED BY APPROVED PENETRATION FIRE STOP SYSTEM IN ACCORDANCE WITH ASTM E814 OR UL 1475 WITH A MIN. POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND HAVE AN F-RATING OF NOT LESS THAN THE FIRE-RESISTANCE RATING OF THE WALL
714.4.2 MEMBRANE PENETRATIONS - RECESSED FIXTURES INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE RATING WILL NOT BE REDUCED
714.5.1.2 THROUGH PENETRATIONS PROTECTED BY APPROVED THROUGH PENETRATION FIRE STOP SYSTEM IN ACCORDANCE WITH ASTM E814 OR UL 1475 WITH A MIN. POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND HAVE AN F-RATING / T-RATING OF NOT LESS THAN 1-HOUR, BUT NOT LESS THAN THE RATING OF THE FLOOR PENETRATED.
715.3 JOINTS IN FIRE-RESISTANCE RATED WALLS / FLOOR / CEILING ASSEMBLIES PROVIDED BY APPROVED FIRE-RESISTANT JOINT SYSTEM DESIGNED TO RESIST PASSAGE OF FIRE FOR NOT LESS THAN THE FIRE-RESISTANCE RATING OF THE WALL / FLOOR / CEILING - EXCEPTION 9 - CONTROL JOINTS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263.

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LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR COVERINGS OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES UNITS NEW THAT SERVE THE SAME PURPOSE
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OBC CHAPTER 8: INTERIOR FINISHES
803.1.2 INTERIOR WALL AND CEILING FINISH MATERIALS
CLASS A = FLAME SPREAD INDEX 0-25, SMOKE DEVELOPED INDEX 0-450
CLASS B = FLAME SPREAD INDEX 26-75, SMOKE DEVELOPED INDEX 460-800
CLASS C = FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450
TABLE 803.13: INTERIOR WALL AND CEILING FINISH REQUIREMENTS
USE
EXIT ENCLOSURES AND PASSAGEWAYS: CLASS B CLASS C
CORRIDORS: CLASS C CLASS C
ROOMS AND ENCLOSED SPACES: CLASS C CLASS C
804.2 FLOOR FINISH - MINIMUM CRITICAL RADIANT FLUX
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OBC CHAPTER 9: FIRE PROTECTION SYSTEMS
903.2.6 USE GROUP R-2: AUTOMATIC FIRE SPRINKLER SYSTEM REQUIRED - PROVIDED - NFPA 13
905.3.1 STANDPIPE SYSTEM - CLASS III REQUIRED - PROVIDED
906.1 PORTABLE FIRE EXTINGUISHERS - REQUIRED - PROVIDED, COORDINATE WITH OHIO FIRE CODE AND FIRE DEPT.
907.2.9 FIRE ALARM SYSTEMS - REQUIRED - PROVIDED

OBC CHAPTER 10: MEANS OF EGRESS
TABLE 1004.5: REFER TO CODE REVIEW FLOOR PLANS FOR OCCUPANT LOAD BY SPACE
BUSINESS / OFFICE: 1/150 SF GROSS 423 SF 3 OCC.
ASSEMBLY: 1/15 SF NET 1,343 SF 90 OCC.
RESIDENTIAL: 1/200 SF GROSS 74,602 SF 373 OCC.
OCCUPANT LOAD:
OCCUPANT LOAD INDICATED FOR REFERENCE - NOT INTENDED TO ALTER PERMITTED OCCUPANCY OF THE BUILDING AS PART OF THIS PROJECT
1005.2 EGRESS WIDTH - NO CHANGE IN CORRIDOR, STAIRWAY, OR EXIT WIDTHS AS PART OF THIS PROJECT
TABLE 1006.2.1 SPACES WITH 1 EXIT OR 1 EXIT ACCESS DOORWAY
B USE - 48 OCCUPANTS - 75 MAX. COMMON PATH OF TRAVEL
R-2 USE - 20 OCCUPANTS - 125 MAX. COMMON PATH OF TRAVEL
NO CHANGE IN EXITS OR TRAVEL DISTANCE AS PART OF THIS PROJECT
TABLE 1006.3.3 MIN. NUMBER OF EXITS PER STORY
1,600 OCCUPANTS = 2 EXITS REQUIRED, 4 PROVIDED
1009.1 ACCESSIBLE MEANS OF EGRESS - PROVIDED / EXISTING CONDITION.
1011.1 STAIRWAYS - NO CHANGE
TABLE 1011.2 EXIT ACCESS TRAVEL DISTANCE
B USE W/ SPRINKLER = 300' TRAVEL DISTANCE
R-2 USE W/ SPRINKLER = 250' TRAVEL DISTANCE
NO CHANGE TO EXISTING TRAVEL DISTANCE AS PART OF THIS PROJECT
TABLE 1020.2 CORRIDORS SERVING MORE THAN 30 PERSONS -
B USE - 0 HOUR REQUIRED
R-2 USE - 1/2 HOUR REQUIRED
TABLE 1020.3 CORRIDOR WIDTH: MIN. 44"

OBC CHAPTER 11: ACCESSIBILITY
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1104 ACCESSIBLE ROUTE PROVIDED TO FRONT ENTRANCE
1105 ACCESSIBLE ENTRANCE PROVIDED TO FRONT ENTRANCE
1106 ACCESSIBLE PARKING PROVIDED
1110.2 ACCESSIBLE TOILET ROOMS PROVIDED.
1112 ACCESSIBLE SIGNAGE - PROVIDED FOR TOILET ROOMS, AND OTHER AREAS REQUIRED BY ANSIDAAG.

OBC CHAPTER 16: ROOF ASSEMBLIES
TABLE 1505.1: FIRE CLASSIFICATION - III-B CONSTRUCTION - MIN. CLASS C, ACTUAL CLASS A [LOW SLOPE ROOFS]

OBC CHAPTER 16: STRUCTURAL DESIGN
TABLE 1604.3: DEFLECTION LIMITS
INTERIOR PARTITIONS = H/180
FLOOR JOISTS/BEAMS = L/360
OTHER STRUCTURAL COMPONENTS = L/240
EXTERIOR WALL W/ PLASTER/STUCCO = L/360
EXTERIOR WALLS W/ BRITTLE FINISH = H/240
EXTERIOR WALL W/ FLEXIBLE FINISH = H/180
[H/180 PREVAILS DUE TO INTERIOR GYPSUM BOARD]
LINTELS SUPPORTING MASONRY VENEER = L/600

TABLE 1607.1: LIVE LOADS
RESIDENTIAL AREAS = 40 PSF
ASSEMBLY AREAS = 100 PSF
CORRIDORS = 100 PSF
OFFICES = 50 PSF
STAIRS AND EXITS = 100 PSF
ROOF LIVE LOAD = 20 PSF

1607.9.1: CONCENTRATED LOADS
HANDRAILS & GUARDS = 200 PLF
1608.2: GROUND SNOW LOADS
GROUND SNOW LOAD = 20 PSF
ICE ON SNOW = 5 PSF
SNOW EXPOSURE FACTOR = 0.7
SNOW LOAD IMPORTANCE FACTOR = 1.0
THERMAL FACTOR = 1.0

1609: WIND LOADS
ULTIMATE DESIGN WIND SPEED = 115 MPH, 3 SEC. GUST
EXPOSURE = C
WIND IMPORTANCE FACTOR = 1.0
BUILDING CATEGORY = II
INTERNAL PRESSURE COEFFICIENT = +/- 0.18

1612: FLOOD LOADS
SITE IS NOT LOCATED IN FLOOD PRONE AREA, PER CORP. OF ENGINEERS.

OBC CHAPTER 29: PLUMBING SYSTEMS
NO CHANGE TO EXISTING COMMON AREA TOILET ROOMS - EXISTING TOILET ROOMS HAVE [2] FIXTURES - [1] LAVATORY - EACH TOILET ROOM IS ACCESSIBLE

NO CHANGE TO EXISTING DWELLING UNIT TOILET ROOMS, EACH DWELLING UNIT CONTAINS A FULL BATHROOM

INTERNATIONAL ENERGY CONSERVATION CODE
TABLE C402.1.3: THERMAL ENVELOPE INSULATION R-VALUE METHOD
INSULATION ABOVE ROOF DECK, CLIMATE ZONE 4 = R-30 CI
BUILDING A:
EXISTING = R-19 [ASSUMED - BELOW DECK]
PROPOSED = R-19 EXISTING + R-26 [NEW ABOVE DECK]
BUILDING F:
EXISTING = R-18.6 [CONTINUOUS ABOVE DECK]
PROPOSED = R-18.6 + R-11.4 [NEW ABOVE DECK] = R-30

C402.1.4.1.1: TAPERED, ABOVE DECK INSULATION BASED ON THICKNESS: WHERE USED AS A COMPONENT OF MAXIMUM ROOF ASSEMBLY U-FACTOR CALCULATION, THE SLOPED ROOF INSULATION R-VALUE CONTRIBUTION TO THAT CALCULATION TO USE THE AVERAGE THICKNESS IN INCHES ALONG WITH THE MATERIAL R-VALUE PER INCH.

C402.2.1.2: MINIMUM THICKNESS: THE MINIMUM THICKNESS OF ABOVE DECK ROOF INSULATION AT ITS LOWEST POINT, GUTTER EDGE, ROOF DRAIN, OR SCUPPER SHALL NOT BE LESS THAN 1".

C503.2.1: ROOF REPLACEMENT: COMPLY WITH C402.1.3, C402.1.4, C402.1.5, OR C402.1.6 WHERE THE EXISTING ROOF ASSEMBLY IS PART OF THE THERMAL ENVELOPE AND CONTAINS INSULATION ENTIRELY ABOVE THE ROOF DECK. IN NO CASE SHALL THE R-VALUE OF THE ROOF INSULATION BE REDUCED AS PART OF THE ROOF REPLACEMENT.

RDA CONTRACT ADMINISTRATION

- RDA IS PROVIDING CONTRACT ADMINISTRATION SERVICES FOR THIS PROJECT. CONTRACTOR AND CLIENT / OWNER ARE RESPONSIBLE TO COORDINATE THE PROPOSED WORK, SCHEDULES, INSTALLATIONS, PERMITS, INSPECTIONS, ETC.
- CONTACT ARCHITECT FOR CLARIFICATION SHOULD THERE BE QUESTIONS REGARDING THE INTERPRETATION OR INTENT OF THE DOCUMENTS, FIELD DISCOVERY, ETC. THAT WOULD IMPACT OR AFFECT THE WORK AS PROPOSED. RDA IS NOT BE LIABLE FOR DEVIATIONS, FIELD CHANGES, AND CLIENT / OWNER CHANGES DURING CONSTRUCTION.
- FIELD CONFIRM ALL EXISTING CONDITIONS, PROPOSED INSTALLATIONS AND HOW THEY INTERFACE TO ENSURE THE SYSTEMS CAN BE INSTALLED PER THE INTENT OF THE DOCUMENTS AND TO MEET APPLICABLE BUILDING AND ZONING CODES, LOCAL REQUIREMENTS, CLIENT / OWNER REQUIREMENTS, ETC.
- MEET ALL APPLICABLE BUILDING AND ZONING CODES REQUIREMENTS WHETHER SPECIFICALLY NOTED HEREIN OR NOT. BUILDING CODES REPRESENT THE MINIMUM ACCEPTABLE STANDARD.
- INSTALL ALL PRODUCTS, MATERIALS, INSTALLATIONS, AND THE LIKE IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS, APPLICABLE MANUFACTURER'S DETAILS AND INSTRUCTIONS, IN ACCORDANCE WITH BEST PRACTICES, AND BUILDING CODE PROVISIONS.

THE PLANS AND SPECIFICATIONS ARE INTENDED TO DEPICT THE GENERAL SCOPE, LAYOUT AND QUALITY OF WORKMANSHIP REQUIRED. THE DOCUMENTS ARE NOT AN INSTRUCTION MANUAL TO EXECUTE THE WORK NOR ARE THEY INTENDED TO SHOW OR DESCRIBE IN DETAIL EVERY ITEM NECESSARY FOR THE PROPER INSTALLATION OF THE WORK. THE MEANS AND METHODS REQUIRED TO EXECUTE THE WORK DESCRIBED IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THE ANCILLARY WORK REQUIRED, WHETHER EXPLICITLY STATED OR NOT, FOR THE PROPER COMPLETION OF THE WORK AS INTENDED. THE CONTRACTOR IS REQUIRED TO MEET OR EXCEED BUILDING CODE REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS, ASTM STANDARDS, AND/OR MANUFACTURER INSTALLATION REQUIREMENTS AS THEY RELATE TO THE WORK.

THE PLANS AND SPECIFICATIONS REPRESENT A SINGLE COMPLETE DESIGN PACKAGE INDICATING THE INTENDED SCOPE OF THE PROJECT IN ITS ENTIRETY. AS SUCH, THE PROJECT IS STRUCTURED TO BE AWARDED TO A SINGLE PRIME CONTRACTOR. THE DOCUMENTS DO NOT DELINEATE BID PACKAGES OR ASSIGN RESPONSIBILITIES TO ANY SUBSEQUENT SUBCONTRACTORS, DICTATE CONSTRUCTION SEQUENCING, NOR PROVIDE COORDINATION BETWEEN ANY TRADES. SUCH ACTIVITIES ARE THE RESPONSIBILITY OF THE HOLDER OF THE CONSTRUCTION CONTRACT. IN THE EVENT OF A DISCREPANCY WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT REPRESENTED IN THE DOCUMENTS SHALL PREVAIL.

ALL PRODUCTS & MATERIALS TO COMPLY WITH BUILD AMERICA BUY AMERICA REQUIREMENTS - REFER TO HUD.

THIS PROJECT CONSISTS OF SELECTIVE ALTERATIONS / RENOVATION OF THE COMMON AREAS OF GRAYHILL TO BE COMPLETED IN ACCORDANCE WITH ALL LOCAL CODES FOR SPRINGFIELD METROPOLITAN HOUSING AUTHORITY. THE PROJECT WILL BE AWARDED TO [1] GENERAL CONTRACTOR FOR ALL WORK OUTLINED IN THESE DOCUMENTS. THE BUILDING WILL REMAIN OCCUPIED DURING THE CONSTRUCTION. CONTRACTOR TO PROVIDE ALL REQUIRED COORDINATION, ADDITIONAL PROTECTION PROVISIONS, SITE SUPERVISION TO FACILITATE CONTINUED OCCUPANCY OF THE BUILDING.

GENERAL CONTRACT BID/CONSTRUCTION PACKAGE IS INCLUSIVE OF ALL WORK OUTLINED IN THE CONTRACT DOCUMENTS ACROSS ALL DISCIPLINES AND INCLUDING ALL TRADES/CONTRACTORS LISTED, UNLESS SPECIFICALLY EXCLUDED AS NOTED IN THE DOCUMENTS AS "BY OWNER". WORK SCOPE INCLUDES BUT IS NOT LIMITED TO ALL PRODUCTS, LABOR, AND COORDINATION REQUIRED FOR A COMPLETE INSTALLATION AND RESULTING IN A FULLY FUNCTIONING FACILITY CONFORMING TO THE DESIGN SPECIFICATIONS AND ALL APPLICABLE BUILDING CODES.

INSULATION ABOVE ROOF DECK, CLIMATE ZONE 4 = R-30 CI
BUILDING A:
EXISTING = R-19 [ASSUMED - BELOW DECK]
PROPOSED = R-19 EXISTING + R-26 [NEW ABOVE DECK]
BUILDING F:
EXISTING = R-18.6 [CONTINUOUS ABOVE DECK]
PROPOSED = R-18.6 + R-11.4 [NEW ABOVE DECK] = R-30

C402.1.4.1.1: TAPERED, ABOVE DECK INSULATION BASED ON THICKNESS: WHERE USED AS A COMPONENT OF MAXIMUM ROOF ASSEMBLY U-FACTOR CALCULATION, THE SLOPED ROOF INSULATION R-VALUE CONTRIBUTION TO THAT CALCULATION TO USE THE AVERAGE THICKNESS IN INCHES ALONG WITH THE MATERIAL R-VALUE PER INCH.

C402.2.1.2: MINIMUM THICKNESS: THE MINIMUM THICKNESS OF ABOVE DECK ROOF INSULATION AT ITS LOWEST POINT, GUTTER EDGE, ROOF DRAIN, OR SCUPPER SHALL NOT BE LESS THAN 1".

C503.2.1: ROOF REPLACEMENT: COMPLY WITH C402.1.3, C402.1.4, C402.1.5, OR C402.1.6 WHERE THE EXISTING ROOF ASSEMBLY IS PART OF THE THERMAL ENVELOPE AND CONTAINS INSULATION ENTIRELY ABOVE THE ROOF DECK

FINISH SELECTIONS				
FLOORING	DESCRIPTION:	MANUFACTURER:	STYLE:	COLOR:
LVT-1	LUXURY VINYL-TILE	SHAW-CONTRACT	FUNCTION 2-5 486W	COMPOSITE 69500
LVT-2	LUXURY VINYL-TILE	PARTRAC	PERFECT - 1635V	AURA-V2 00700
PO-1	POLISHED-CONCRETE	DA-TILE	INTERSECT-RESILLE M7424204	
WO-1	WALKOFF MAT	TARKETT	ABRASIVE ACTION II	WINTER GRAY 19103
FC-1	FLOOR COATINGS	SHERWIN WILLIAMS	TBD	TBD
ST-1	STAIR TREAD COVERS	ROPIE		DARK GRAY P150
BASE	DESCRIPTION:	MANUFACTURER:	STYLE:	COLOR:
RB-1	RUBBER BASE	ROPIE	3 1/2" FINACLE	DARK GRAY P150
T-1	FLAT TOP COVE BASE	DAL-TILE	4X12 34XCMOD	WHITE ARCTIC WHITE 790
PAINT	DESCRIPTION:	MANUFACTURER:	FINISH:	COLOR:
P-1	GENERAL PAINT	SHERWIN WILLIAMS	SWATH	SW 7029 ACREEABLE GRAY
P-2	CEILING/CEILING PAINT	SHERWIN WILLIAMS	SATIN	SW 7007 CEILING BRIGHT WHITE
P-3	CORRIDOR DOOR & TRIM/CASING PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6236 FOGGY DAY
P-4	ELEVATOR DOOR & TRIM/CASING PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6235 FOGGY DAY
P-5	ACCENT PAINT	SHERWIN WILLIAMS	SATIN	SW 7016 BREZZA
P-6	ACCENT PAINT	SHERWIN WILLIAMS	SATIN	SW 7611 TRANQUIL AQUA
P-7	ACCENT PAINT	SHERWIN WILLIAMS	SATIN	SW 7619 LABRADORE
P-8	ACCENT PAINT	SHERWIN WILLIAMS	SATIN	SW 0048 BUNGLEHOUSE BLUE
P-9	BRICK PAINT	SHERWIN WILLIAMS	EGG-SHELL	SW
P-10	EXTERIOR DOORS	SHERWIN WILLIAMS	SEMI-GLOSS	SW 7004 URBANE BRONZE

CASEWORK	DESCRIPTION:	MANUFACTURER/MA1STYLE:	COLOR:
PL-1:	LAMINATE COUNTERTOPS - KITCHEN	WILSONART	PEARL SOAPSTONE 4886-38
PL-2:	LAMINATE CASEWORK - KITCHEN / BATH	WILSONART	SKYLINE WALNUT 7964K-12
SS-1:	SOLID SURFACE COUNTERTOPS - BATH	CORIAN	RAIN CLOUD

LIGHTING	DESCRIPTION:	MANUFACTURER:	STYLE:	COLOR:
L01	COORDIOR LIGHTING 1			
L02	COORDIOR LIGHTING 2			
L03	2x2 LIGHTING			
L04	SOFFIT CAN LIGHTING			
L05	EXTERIOR ENTRY LIGHTING			

WALL TILE	DESCRIPTION:	MANUFACTURER:	STYLE:	COLOR:
WT-1	PUBLIC BATHROOM	DALTILE	COLOR WHEEL LINEAR	MATTE ARCTIC WHITE 790

MISC.	DESCRIPTION	MANUFACTURER	STYLE	COLOR
GT-1	BATHROOM FLOOR GROUT	MAPEI		IRON 5107
GT-2	BATHROOM WALL GROUT	MAPEI		WARM GRAY 5050
WT-1	BATHROOM PARTITIONS	AG	3046 PLASTIC	METALLIC SILVER 6511
	WALL PROTECTION	INPRO	3606 PALLADIUM RIGID SHEET	PEBBLE GRAY C537
	HANDRAIL	INPRO	910FV SERIES HANDRAIL	BARRELE OAK 0527
CP-1	CORNER GUARDS	INPRO	130 HIGH IMPACT CORNER GUARD	PEBBLE GRAY C537
	ELEVATOR CAB	WILSONART		SKYLINE WALNUT 7964K-12
	BASEBOARD HEATING COVERS	EZ SNAP COVERS		WHITE
ATC	ACOUSTICAL CEILING TILE	ARMSTRONG	824 CORTESA FIRE GUARD	WHITE

EXTERIOR FINISHES	DESCRIPTION:	MANUFACTURER:	STYLE	COLOR:
	WINDOWS:	PELLA		EXTERIOR-FOSSIL PR7481
	METAL SIDING			BRONZE
	METAL EDGE			BRONZE
	METAL WRAP FASCIA / RAKE / FRIEZE			BRONZE
	GUTTERS & DOWNSPOUTS			BRONZE
	ROOF SHINGLES			

WINDOW SCHEDULE

#	SIZE	NEW	EXIST	SALV	EERO	TYPE/OPERATION	DETAILS	REMARKS
A1	± 4'-0" x 4'-0"	●			●	D.H.	A/A# 21	EX. EERO - W/ SECURITY SCREEN [ADD ALT # 06]
A2	± 4'-0" x 4'-0"	●			●	D.H.	A/A# 21	EX. EERO - W/ STANDARD SCREEN
B1	± [2] 3'-0" x 4'-8"					MULLED D.H.	A/A# 21	W/ SECURITY SCREEN [ADD ALT # 06]
B2	± [2] 3'-0" x 4'-8"	●				MULLED D.H.	A/A# 21	W/ STANDARD SCREEN

WINDOW NOTES

LEGEND

EERO = EMERGENCY ESCAPE AND RESCUE OPENING

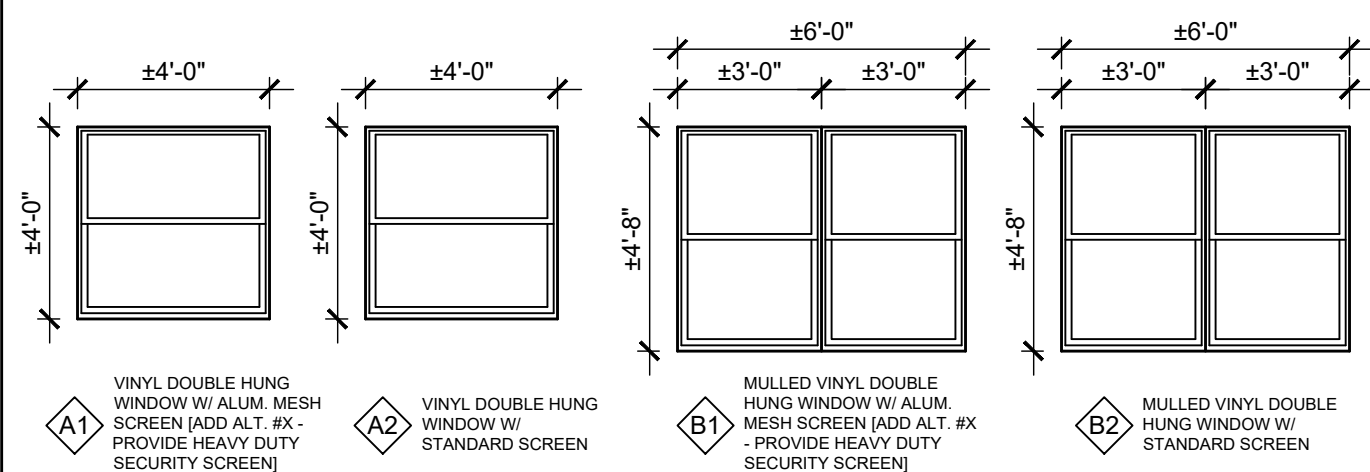
T = TEMPERED GLAZING [REFER TO PLANS FOR LOCATIONS]

D.H. = DOUBLE HUNG

GENERAL NOTES:

1. FIELD VERIFY ALL EXISTING ROUGH / WINDOW UNIT SIZES PRIOR TO ORDERING WINDOWS. SIZE NEW WINDOWS TO FIT EXISTING ROUGH OPENINGS (CUSTOM SIZE) UNLESS SPECIFICALLY NOTED OTHERWISE IN PLANS. PROVIDE SILL FINISH WITHIN AN EXISTING / ORIGINAL WINDOW FRAME. DO NOT REDUCE "EERO" OPENINGS FROM THE ORIGINAL OPENING DIMENSIONS. COORDINATE ROUGH OPENING REQUIREMENTS WITH MANUFACTURER AS APPLICABLE.
2. PROVIDE EXISTING WINDOW OPERATOR.
3. PROVIDE FRAME EXPANDERS AS APPLICABLE FOR WINDOW INSTALLATION AND AS REQ'D BY EXISTING CONDITIONS. TYPE ALL WINDOWS, BY WINDOW MANUFACTURER.
4. INSTALL NEW WEATHER STRIPPING AT ALL WINDOW JOINTS.
5. ALL OPERABLE WINDOWS TO HAVE 12 SCREENS.
6. PROVIDE TEMPERED GLASS AT ALL LOCATIONS REQUIRED BY 2024 OBC.

WINDOW TYPES



#	SIZE	NEW	EXISTING EXCLUDED	FRAME TYPE	DOOR TYPE	HDWR SET #	FIRE RATING	REMARKS
001A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	7.0	20	-
001B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	6.0	20	-
001C	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	17.0	-	EX, HDWR
005A	2'-6" x 6'-8"	●	●	EX, F-1	EX, D-8	8.0	-	EX, HDWR
005B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	11.0	-	EX, HDWR
050A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	12.0	90	EX, PANIC HDWR
050B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
051	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-3	6.0	45	-
054	3'-0" x 6'-8"	●	●	-	F-1, D-9	17.0	-	-
055	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-2	10.0	90	EX, PASSAGE HDWR, MAG HOLD OPEN
056A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	12.0	90	EX, PANIC HDWR
056B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
057	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-2	5.0	45	-
058	3'-0" x 6'-8"	●	●	-	F-1, D-2	3.0	20	-
059	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
061	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-3	10.0	90	EX, PASSAGE HDWR, MAG HOLD OPEN
062A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-1	11.0	-	EX, HDWR
062B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
063A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	12.0	90	EX, PANIC HDWR
063B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
064	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-2	10.0	90	EX, PASSAGE HDWR, MAG HOLD OPEN
066A	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-2	12.0	90	EX, PANIC HDWR
066B	3'-0" x 6'-8"	●	●	EX, F-1	EX, D-7	17.0	-	EX, PANIC HDWR
067	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-2	6.0	45	-
069	3'-4" x 6'-8"	●	●	EX, F-1	EX, D-2	6.0	45	-

FRAME TYPES



HARDWARE TYPES

SET: 1.0 DOORS: 170.1, 170.2 DESCRIPTION: VESTIBULE 170 - FIELD VERIFY 1 AUTOMATIC OPERATOR REPLACE EXISTING, REPLACE AS REQ'D 689 NO 1 BALANCE OF HARDWARE FIELD VERIFY EXISTING, REPLACE AS REQ'D 689 NO	SET: 10.0 DOORS: 095, 061, 064, 154, 159, 162, 254, 255, 259, 263, 354, 359 DESCRIPTION: RETROFIT - PASSAGE FUNCTION X CLOSER X HOLD-OPEN MAGNET 1 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 PASSAGE LATCH AU J4701LN 626 YA 1 CLOSER, TRI-MOUNT 51 P 689 YA 1 ELECTROMAGNETIC HOLDER RE-USE EXISTING 689 NO 1 GASKETING S88D (HEAD & JAMBS) 689 PE 1 THRESHOLD 274MA SES25SS 689 PE
SET: 2.0 DOORS: 172 DESCRIPTION: RE-USE EXISTING X ACCESS CONTROL UPGRADE 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 RIM CYLINDER HOUSING MATCH EXISTING 626 YA 1 ELECTRIC STRIKE 650 HS 1 ELE-5 STRIKE RECTIFIER 200M3 HS 1 WIRING HARNESS QCO-2300P MK 1 ACCESS CONTROL READER BY SECURITY CONTRACTOR 689 SU 1 POWER SUPPLY ADD X ACCESS/ATORS AS REQ'D 689 SU 1 DOOR HARDWARE RE-USE EXISTING OT	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
NOTES: VERIFY EXISTING EXIT DEVICE HAS LOCKABLE LEVER TRIM. REPLACE EXIT DEVICE TRIM IF REQUIRED. ENTERING VIA VAN AT READER IN CASE OF CYTRIC STRIKE OR MANUAL KEY. FREE EGRESS AT ALL TIMES. COORDINATE WITH ELECTRICAL AND SECURITY CONTRACTORS.	SET: 11.0 DOORS: 006B, 062A DESCRIPTION: RETROFIT - PASSAGE FUNCTION X DEADBOLT 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 DEADBOLT B D120162 AS REQ'D 626 YA 1 PASSAGE LATCH AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 CLOSER, TRI-MOUNT 51 P 689 YA 1 DOOR STOP 400 SERIES AS REQ'D 689 RO 3 ADHESIVE SILENCER 608CA 689 RO
SET: 3.0 DOORS: 058 DESCRIPTION: NEW DOOR - STOREROOM FUNCTION 3 HINGE, FULL MORTISE TAPZ174MK NRP-STD 51262D MK 1 STOREROOM LOCK B AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 3 SILENCER 6080909 AS REQ'D 689 RO	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
SET: 4.0 DOORS: 364, 365 DESCRIPTION: NEW DOOR - STOREROOM FUNCTION X OVERHEAD STOP 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 STOREROOM LOCK B AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 SURFACE OVERHEAD STOP 10-336 RE-USE NO 3 SILENCER 6080909 AS REQ'D 689 NO	SET: 12.0 DOORS: 050A, 050A, 063A, 066A, 150, 155, 161, 164, 250, 261, 264, 350, 356, 357, 360 DESCRIPTION: RETROFIT - PASSAGE FUNCTION - PANIC EXIT X CLOSER - FIRE RATED 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 FIRE RATED RIM EXIT, PASSAGE 630 1 CLOSER, TRI-MOUNT 51 P 689 YA 1 KICK PLATE H105017 HIGH CSK BEV 689 YA 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 1 GASKETING S88D (HEAD & JAMBS) 689 PE
SET: 5.0 DOORS: 157, 151, 165, 170A, 251, 295, 351, 361, 362 DESCRIPTION: RETROFIT - STOREROOM FUNCTION X NRP-STD 1 HINGE, FULL MORTISE TAPZ174MK NRP-STD 51262D MK 1 STOREROOM LOCK B AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 3 ADHESIVE SILENCER 608CA 689 RO	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
SET: 6.0 DOORS: 018, 051, 067, 069, 156, 256, 352, 355, 358 DESCRIPTION: RETROFIT - STOREROOM FUNCTION X CLOSER 3 HINGE, FULL MORTISE TAPZ174MK NRP-STD 51262D MK 1 STOREROOM LOCK B AU J4701LN 626 YA 1 CLOSER, TRI-MOUNT 51 P 689 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 GASKETING S88D (HEAD & JAMBS) 689 PE 3 ADHESIVE SILENCER 608CA 689 PE	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
SET: 7.0 DOORS: 01A DESCRIPTION: RETROFIT - OFFICE FUNCTION X CLOSER 3 HINGE, FULL MORTISE TAPZ174MK 626 YA 1 ENTRY LOCK B AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 CLOSER, TRI-MOUNT 51 P 689 YA 1 KICK PLATE K105017 HIGH CSK BEV 51262D RO 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 3 ADHESIVE SILENCER 608CA 689 RO	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.	SET: 13.0 DOORS: 262 DESCRIPTION: RETROFIT - PUSH / PULL FUNCTION X CLOSER 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 PUSH PLATE 70E 689 RO 1 PULL PLATE BF 120X70C 51262D RO 1 CLOSER, PA MOUNT PR0301 689 YA 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 1 GASKETING S88D (HEAD & JAMBS) 689 PE
SET: 8.0 DOORS: 005A, 050A, 056A, 059, 062B, 063B, 066B, 163, 173, 174, 175, 176, 177A, 178A, 178B, 179, 180, 181, 182 DESCRIPTION: EXTERIOR & SALVAGED DOORS 1 DOOR HARDWARE RE-USE EXISTING OT	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
SET: 9.0 DOORS: 160A, 160B DESCRIPTION: RETROFIT - CLASSROOM FUNCTION X SWEEP 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 ENTRY LOCK B AU J4701LN 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 DOOR STOP 400 SERIES AS REQ'D 51262D RO 1 INTERIOR SWEEP 315CN 689 PE 3 ADHESIVE SILENCER 608CA 689 RO	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.	SET: 14.0 DOORS: 305 DESCRIPTION: NEW APARTMENT ENTRY 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 PASSAGE LATCH AU J4701LN 626 YA 1 DEADBOLT B D212 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 CLOSER 11018FCV 689 YA 1 DOOR STOP 525X28 689 NP 1 GASKETING S88D (HEAD & JAMBS) 11018FCV 689 PE 1 DOOR BOTTOM 234APK TKSP 689 PE
SET: 10.0 DOORS: 178 DESCRIPTION: ALTERNATE RETROFIT - APARTMENT ENTRY 3 HINGE, FULL MORTISE TAPZ174MK 51262D MK 1 PASSAGE LATCH AU J4701LN 626 YA 1 DEADBOLT B D212 626 YA 1 SFC CORE BY OWNER LOCKSMITH 626 YA 1 CLOSER 11018FCV 689 YA 1 DOOR STOP 525X28 689 NP 1 GASKETING S88D (HEAD & JAMBS) 11018FCV 689 PE 1 DOOR BOTTOM 234APK TKSP 689 PE	NOTES: HARDWARE SET LISTED FOR REFERENCE ONLY. FIELD VERIFY EXISTING DOOR HARDWARE PREPS, SIZES AND LOCATIONS. ALTER HARDWARE SET AS REQUIRED FOR A DIRECT RETROFIT WHERE POSSIBLE.
SET: 11.0 DOORS: 001C, 050E, 054, 056B, 059, 062B, 063B, 066B, 163, 173, 174, 175, 176, 177A, 178A, 178B, 179, 180, 181, 182 DESCRIPTION: EXTERIOR & SALVAGED DOORS 1 DOOR HARDWARE RE-USE EXISTING OT	SET: 15.0 DOORS: 177B DESCRIPTION: ALL HARDWARE BY OTHERS 1 HARDWARE BY DOOR SYSTEM MFR.
SET: 12.0 DOORS: 001C, 050E, 054, 056B, 059, 062B, 063B, 066B, 163, 173, 174, 175, 176, 177A, 178A, 178B, 179, 180, 181, 182 DESCRIPTION: EXTERIOR & SALVAGED DOORS 1 DOOR HARDWARE RE-USE EXISTING OT	SET: 16.0 DOORS: 177B DESCRIPTION: ALL HARDWARE BY OTHERS 1 HARDWARE BY DOOR SYSTEM MFR.
SET: 13.0 DOORS: 177B DESCRIPTION: ALL HARDWARE BY OTHERS 1 HARDWARE BY DOOR SYSTEM MFR.	SET: 17.0 DOORS: 001C, 050E, 054, 056B, 059, 062B, 063B, 066B, 163, 173, 174, 175, 176, 177A, 178A, 178B, 179, 180, 181, 182 DESCRIPTION: EXTERIOR & SALVAGED DOORS 1 DOOR HARDWARE RE-USE EXISTING OT

DOOR / FRAME / HARDWARE NOTES

- | | |
|--|---|
| 1. MAINTAIN CLEARANCES PER "MANEUVERING CLEARANCES AT DOORS" DIAGRAM, BASED UPON FIGURE 404.2.3.2 ANSI. COORDINATE ANY CONFLICTS WITH THE ARCHITECT. | 13. ADDITIONAL REQUIREMENTS [2024 OBC]: |
| 2. COORDINATE DOOR/FRAME TYPES, STYLE, FINISH WITH OWNER. | 716.5.1 FIRE DOOR ASSEMBLIES - SIDE-HINGED OR PIVOTED SWINGING DOORS SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C. |
| 3. ALL HARDWARE SHALL BE LEVER TYPE, 2ND FINISH, MATCH OWNER STANDARD. | 716.5.3 DOOR ASSEMBLIES IN CORRIDORS AND SMOKE BARRIERS REQUIRED TO HAVE MINIMUM PROTECTION RATING OF 20 MINUTES SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C, 100T, 100TOUT, THE HOSE-STREAM TEST. |
| 4. ALL HARDWARE TO COMPLY WITH THE LATEST REQUIREMENTS OF THE OHIO BUILDING CODE, ADA, NFPA, NEC AND OTHER APPLICABLE REGULATORY AGENCIES. THE HARDWARE SUPPLIER SHALL COORDINATE STYLE, FINISH, AND OPERATION REQUIREMENTS WITH THE OWNER. | 716.5.7 FIRE RATED DOORS SHALL BE LABELED BY AN APPROVED AGENCY THE LABELS SHALL COMPLY WITH NFPA 80 AND SHALL BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME. |
| 5. COORDINATE THE KEYING REQUIREMENTS WITH THE OWNER. | 716.5.7.1 FIRE DOORS SHALL BE LABELED WITH THE NAME OF THE MANUFACTURER, THE NAME OR TRADEMARK OF THE THIRD PARTY INSPECTION AGENCY, THE FIRE PROTECTION RATING AND THE MAXIMUM TRANSMITTED TEMPERATURE END POINT WHERE REQUIRED. |
| 6. PROVIDE DOOR ACCESSORIES SUCH AS CLOSERS, KICK PLATES, DOOR STOPS, THRESHOLDS, ETC. AS DIRECTED BY THE OWNER. | 716.5.7.3 SMOKE AND DRAFT CONTROL DOORS COMPLYING WITH UL 1784 SHALL BE LABELED IN ACCORDANCE WITH 716.5.7.1 AND SHALL SHOW THE LETTER "S" ON THE FIRE RATING LABEL. |
| 7. PROVIDE WALL OR FLOOR STOP AT EACH DOOR. | 716.5.9.1 SINGLE FIRE DOORS AND ACTIVE LEAVES OF PAIRS OF SIDE-HINGED SWINGING FIRE DOORS SHALL BE PROVIDED WITH AN ACTIVE LATCH BOLT THAT WILL SECURE DOOR WHEN IT IS CLOSED. |
| 8. PREP & PAINT ALL EXISTING HOLLOW METAL DOORS & HOLLOW METAL FRAMES LOCATED IN THE AREA OF WORK. | 716.5.9.2 AUTOMATIC CLOSING FIRE DOOR ASSEMBLIES SHALL BE SELF-CLOSING IN ACCORDANCE WITH NFPA 80. |
| 9. EXISTING STAINED WOOD DOORS TO REMAIN. REPAIRS TO REGRIND, REPAIR & REFINISH. | 716.6 FIRE PROTECTION RATED GLAZING TESTED IN ACCORDANCE WITH NFPA 257 OR UL 9. FIRE PROTECTION RATED GLAZING IN 12 HOUR FIRE RESISTANT RATED PARTITIONS IS PERMITTED TO HAVE A 20 MINUTE FIRE PROTECTION RATING. |
| 10. NEW SOLID CORE DOORS ARE STAINED TO MATCH EXISTING STAINED DOORS. | 716.6.2 AREA LIMITATION OF FIRE PROTECTION RATED GLAZING NOT TO EXCEED 25% OF THE AREA OF THE COMMON WALL WITH ANY ROOM. |
| 11. EXISTING ALUMINUM FRAME DOORS & FRAMES TO REMAIN. | |
| 12. EXPECT ALL EXISTING HARDWARE TO BE IN GOOD WORKING ORDER. TO ENSURE IT IS OPERATING PROPERLY, INCLUDING ENSURING THAT THE HARDWARE LATCHES PROPERLY, PROVIDE REPAIR / REPLACEMENT OF HARDWARE WHERE REQUIRED AND AS DIRECTED VIA FIELD CHANGE ORDER. | |



Jonathan Robert Schaaf #14503
Expiration Date 12/31/2027

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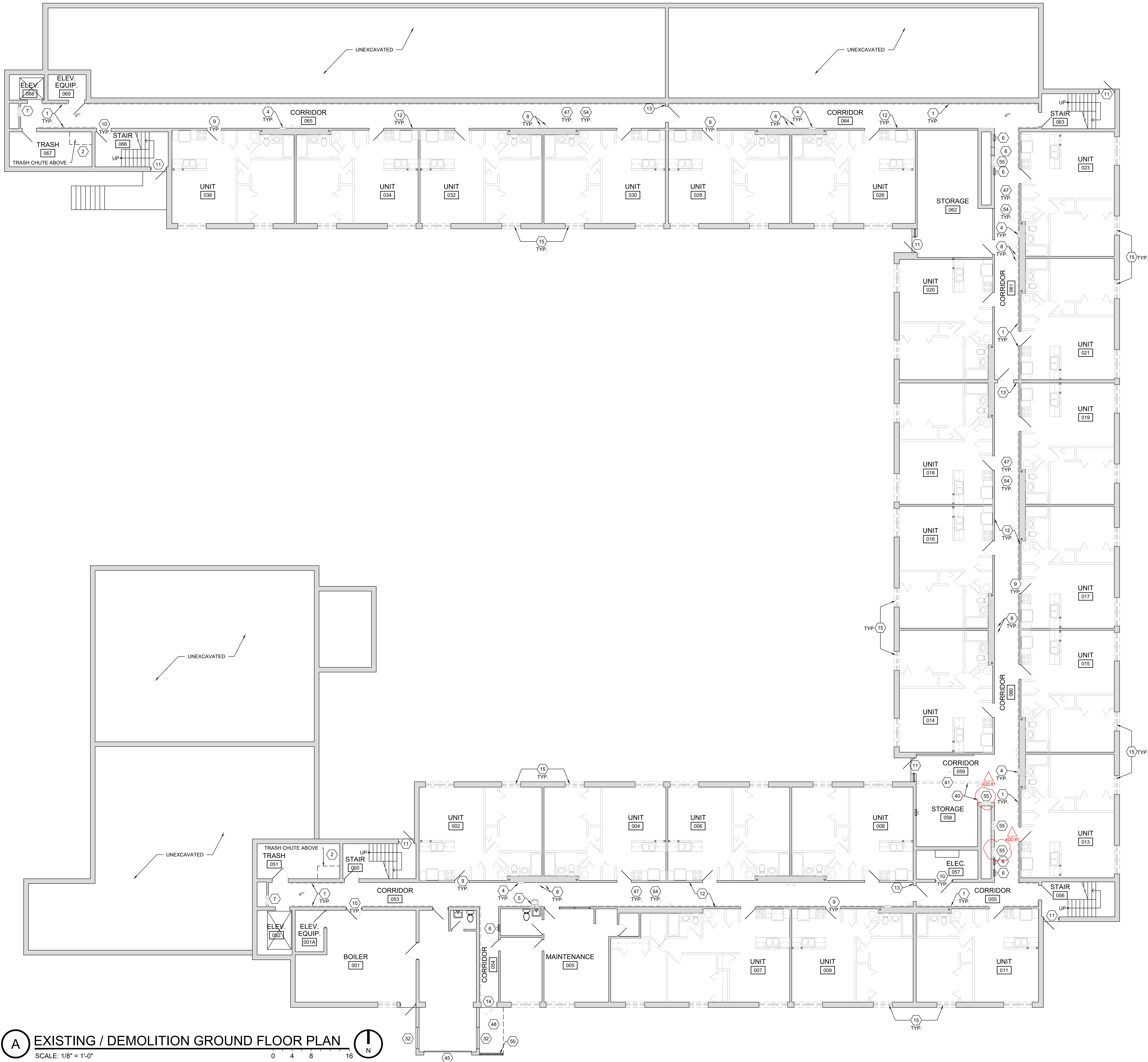
RDA GROUP ARCHITECTS
7662 PARAGON ROAD | DAYTON, OH 45459 | 937.610.3440



Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

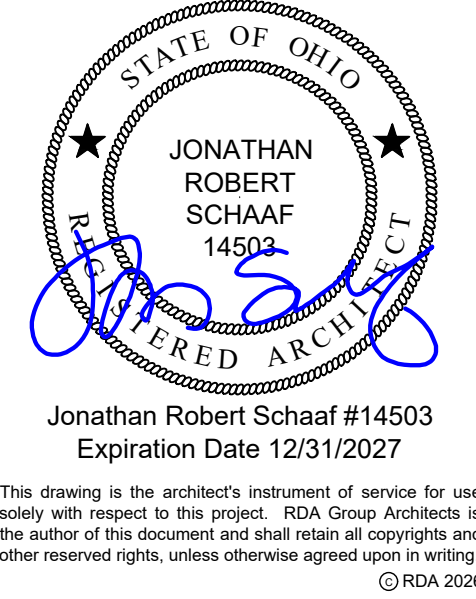
Prepared for: Springfield Metropolitan Housing Authority

Project Number	
2024-112	
Date	
March 3, 2026	
Date	Issue
12.19.25	Review Set
01.12.26	Progress
02.02.26	90% Review Set
02.10.26	Bid / Construction Set
03.03.26	Addendum 01
Sheet Title	
Schedules & Details	



- # DEMOLITION KEY NOTES**
1. REMOVE EXISTING HANDRAIL COMPLETE, INCLUDING SUPPORTS, BRACKETS, END CAPS, ETC. SALVAGE HANDRAIL COMPONENTS AND TURN OVER TO OWNER.
 2. REMOVE EXISTING TRASH COMPACTOR EQUIPMENT COMPLETE. TERMINATE ELECTRICAL ETC.
 3. EXISTING ELECTRICAL CONDUITS TO REMAIN.
 4. REMOVE EXISTING FIRE EXTINGUISHER CABINET. SALVAGE EXISTING FIRE EXTINGUISHER FOR REUSE.
 5. REMOVE EXISTING DRINKING FOUNTAIN. CAP / TERMINATE PLUMBING SUPPLY AND DRAIN PIPING.
 6. EXISTING ELECTRICAL PANEL TO REMAIN.
 7. REMOVE EXISTING HVAC WALL DIFFUSER COMPLETE. EXISTING DUCT WORK TO REMAIN. COORDINATE W/ MECHANICAL DRAWINGS.
 8. REMOVE EXISTING ACCESS PANEL COMPLETE.
 9. EXISTING HOLLOW METAL UNIT ENTRY DOORS / FRAMES TO REMAIN.
 10. EXISTING HOLLOW METAL COMMON AREA DOORS / FRAMES TO REMAIN. COORDINATE W/ DOOR SCHEDULE.
 11. EXISTING EXTERIOR DOORS / FRAMES TO REMAIN, INCLUDING SIDELIGHTS / GLAZING WHERE APPLICABLE.
 12. EXISTING WOOD FRAME / GYPSUM BOARD DEMISING WALLS TO REMAIN.
 13. EXISTING CMU WALL TO REMAIN.
 14. REMOVE EXISTING EXTERIOR DOOR AND FRAME COMPLETE.
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 18. REMOVE EXISTING EXIT SIGNS COMPLETE - EX. BRANCH CIRCUITRY TO REMAIN. COORDINATE W/ ELECTRICAL DRAWINGS.
 19. REMOVE EXISTING HVAC CEILING DIFFUSER COMPLETE. EXISTING DUCT WORK TO REMAIN. SALVAGE EX. AIR DEVICES FOR HIGH VELOCITY SYSTEM AT GROUND & FIRST FLOORS - REMOVE AT SECOND & THIRD FLOORS.
 20. EXISTING CAMERA TO REMAIN. REMOVE / REINSTALL AS REQ'D.
 21. EXISTING FIRE ALARM DEVICE / SMOKE DETECTOR TO REMAIN. REMOVE / REINSTALL AS REQ'D.
 22. REMOVE EXISTING SHINGLE ROOF. UNDERLAYMENT, AND ACCESSORIES COMPLETE DOWN TO EXISTING WOOD DECK. [ALL LAYERS - CONTRACTOR TO VERIFY PRIOR TO BIDDING]
 23. REMOVE EXISTING GUTTERS & DOWNSPOUTS COMPLETE.
 24. REMOVE EXISTING CONT. RIDGE VENT.
 25. REMOVE EXISTING EXHAUST VENT ROOF TERMINATION.
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 44. REMOVE EXISTING UNIT ENTRY DOOR AND FRAME AT THIS LOCATION. SALVAGE EXISTING HARDWARE. MODIFY / REPAIR EXISTING ROUGH OPENING TO ADDRESS CURRENT DEFICIENCIES.
 45. EXISTING OVERHEAD DOOR TO REMAIN.
 46. REMOVE EXISTING ACCESS PANEL IN WALL COMPLETE. MODIFY OPENING FOR NEW DOOR. REFER TO PROPOSED PLANS.
 47. REMOVE EXISTING FINISH FLOOR [AND UNDERLAYMENT AS APPLICABLE] AND FINISH BASE.
 48. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 49. REMOVE EXISTING ABANDONED FLUE TO BELOW DECK IF POSSIBLE. F.V. EXISTING CONDITIONS.
 50. EXISTING ALUMINUM STOREFRONT WIND BREAK TO REMAIN.
 51. EXISTING GAS PIPING TO REMAIN.
 52. EXISTING A/C UNIT TO REMAIN. SET ON PAD.
 53. EXISTING LIGHT FIXTURES TO REMAIN.
 54. REMOVE ALL EXISTING 8x8 COMBUSTION AIR DEVICES LOCATED HIGH ON WALL. F.V. ALL LOCATIONS.
 55. REMOVE EXISTING ABANDONED HVAC LOUVER THIS LOCATION. ABANDON EXISTING DUCT WORK. PREP OPENING FOR INFL.

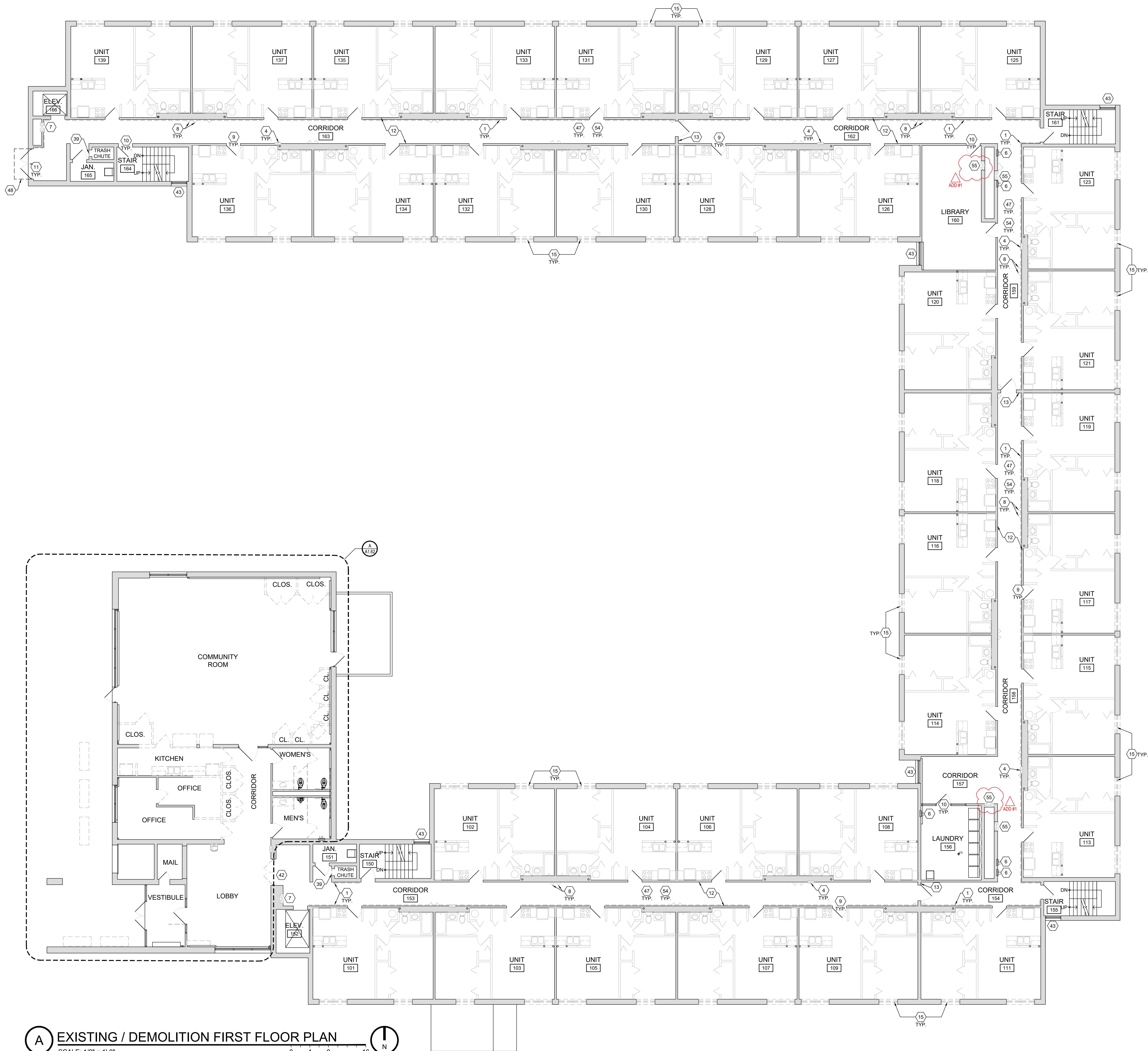
- DEMOLITION GENERAL NOTES**
1. ACCOMPLISH ALL ABATEMENT OF ASBESTOS CONTAINING MATERIALS AS OUTLINED IN ENVIRONMENTAL REPORTS. PROVIDE ALL REQ'D AIR CLEARANCE TESTING.
 2. CONTACT ARCHITECT IF SUSPECTED HAZARDOUS MATERIALS ARE DISCOVERED OR ENCOUNTERED THAT HAVE NOT BEEN IDENTIFIED.
 3. FOLLOW ALL APPLICABLE EPA REQUIREMENTS RELATED TO LEAD BASED PAINT FOR RENOVATION, REPAIR, AND PAINTING. MAINTAIN ALL REQUIRED CERTIFICATIONS.
 4. PROVIDE ALL DEMOLITION REQUIRED BY WORK.
 5. REMOVE ALL MATERIALS AND FINISHES REQUIRED TO PERFORM SCHEDULED WORK INCLUDING ANY ANCILLARY ITEMS.
 6. REMOVE ANY RESIDENT ITEMS MOUNTED TO CORRIDOR WALLS. PROVIDE NOTIFICATION TO RESIDENT PRIOR TO REMOVAL.
 7. CONTACT ARCHITECT IF ANY PART / PARTS OF THE EXISTING BUILDING STRUCTURE SHOW SIGNS OF ROT, WATER DAMAGE, PEST DAMAGE, VANDALISM OR ANY OTHER DETERIORATION THAT MAY CAUSE THE PART / PARTS NOT TO COMPLY WITH APPLICABLE BUILDING CODE REQUIREMENTS OR STANDARD CONSTRUCTION INSTALLATION TECHNIQUES.
 8. SALVAGE ALL ITEMS AS DIRECTED BY OWNER OR AS NOTED IN THE DRAWINGS. COORDINATE ALL REQUIREMENTS FOR REINSTALLATION OF SALVAGED ITEMS. PROVIDE REPLACEMENT PARTS/COMPONENTS TO ALLOW COMPLETE INSTALLATION.
 9. PROTECT ALL FINISHES AND MATERIALS SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY FINISHES DAMAGED DURING DEMOLITION / CONSTRUCTION TO LIKE NEW CONDITION.
 10. PROVIDE ALL NECESSARY TEMPORARY BRACING AND SHORING DURING DEMOLITION AND CONSTRUCTION WORK.
 11. REMOVE ALL MISCELLANEOUS ITEMS, CONDUITS, WIRES, ETC. FROM SURFACES AND WALL CAVITIES AS REQUIRED TO PERFORM WORK.
 12. REMOVE / TERMINATE / CAP / MODIFY / RELOCATE EXISTING UTILITIES AS REQUIRED BY WORK, INCLUDING BUT NOT LIMITED TO PLUMBING SUPPLY/SANITARY PIPING, GAS PIPING, HVAC DUCTWORK, CONTROLS, ELECTRICAL BRANCH CIRCUITRY, ETC. F.V. REQUIREMENTS AND EXISTING ROUTING.
 13. COORDINATE ALL EXISTING AND PROPOSED ROUTING OF PLUMBING, HVAC, AND ELECTRICAL WITH PME DRAWINGS, FIELD COORDINATE BETWEEN TRADES. REMOVE & REPAIR / CUT AND PATCH FINISHES AS REQUIRED TO ACCOMPLISH.
 14. COORDINATE WITH PME DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS. PROPERLY TERMINATE / CAP EXISTING UTILITIES BACK TO NEAREST BRANCH AS APPLICABLE.
 15. FIRE ALARM SYSTEM: BUILDING CONTAINS AN ACTIVE FIRE ALARM SYSTEM. THE SYSTEM IS MONITORED BY SILCO, POC - AARON PARRISH, 937-919-7136.
 - 15.1. MAINTAIN FIRE ALARM SYSTEM OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT.
 - 15.2. CONTRACT WITH MONITORING COMPANY AS REQ'D TO ACCOMPLISH THE SCOPE OF WORK.
 - 15.3. COORDINATE SETTING SYSTEM IN "TEST" MODE AT ALL TIMES WHERE SYSTEM COULD BE COMPROMISED BY WORK. PROVIDE ANY / ALL REQ'D FIRE WATCH AS REQ'D BY OWNER OR FIRE DEPARTMENT.
 - 15.4. REMOVE / REINSTALL DEVICES AS REQ'D BY THE SCOPE OF THE PROJECT.
 - 15.5. ACCOMPLISH MODIFICATIONS TO THE FIRE ALARM SYSTEM AS REQ'D BY THE SCOPE OF WORK.
 16. FIRE SPRINKLER SYSTEM: BUILDING CONTAINS AN ACTIVE SPRINKLER SYSTEM. THE SYSTEM IS MONITORED BY SILCO, POC - AARON PARRISH, 937-919-7136.
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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

Prepared for: Springfield Metropolitan Housing Authority

Project Number	
2024-112	
Date	
March 3, 2026	
Date	Issue
12.19.25	Review Set
01.12.26	Progress
02.02.26	90% Review Set
02.10.26	Bid / Construction Set
03.03.26	Addendum 01
Sheet Title	
Existing / Demolition Ground Floor Plan	
Sheet Number	
D1.11	



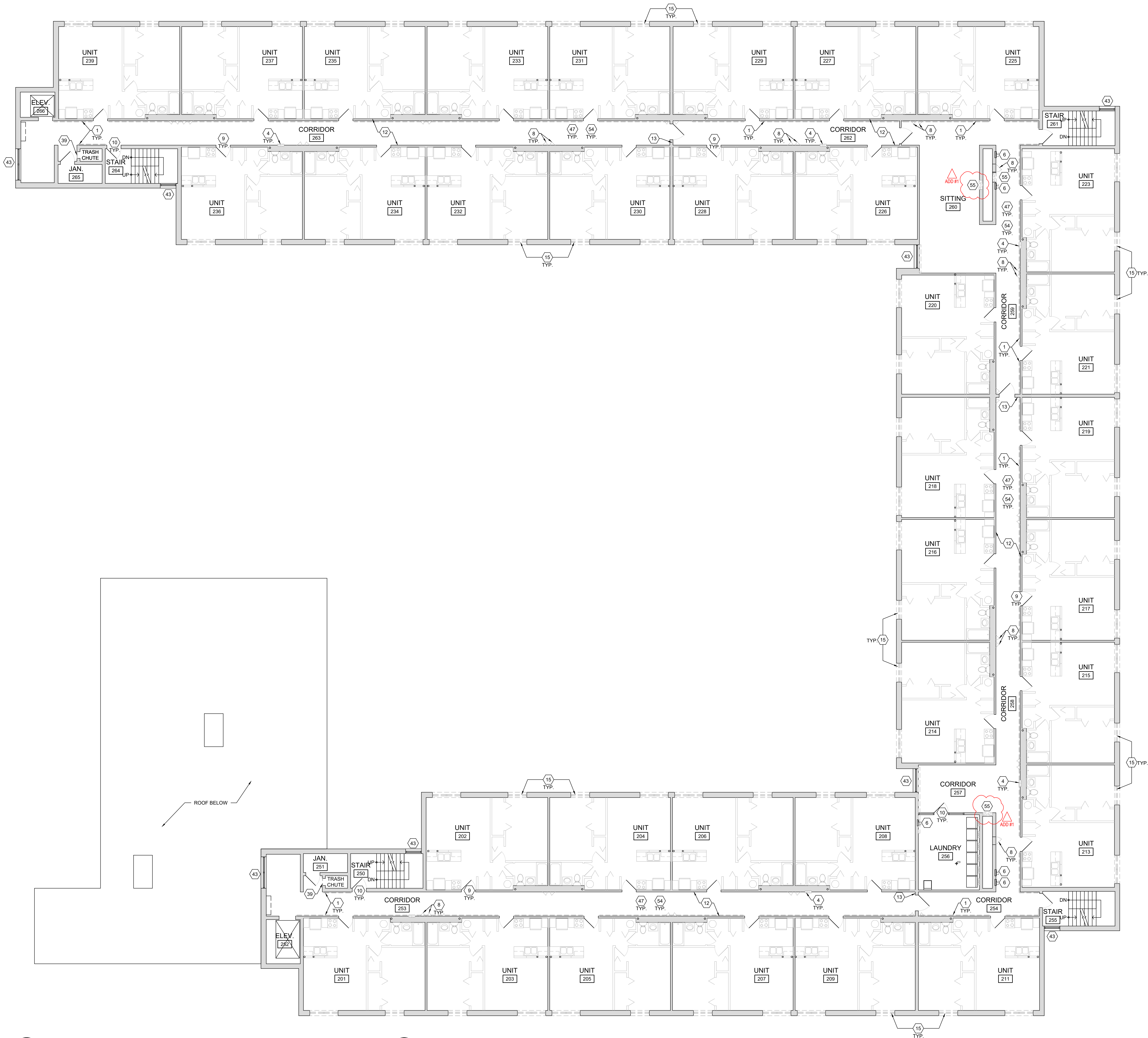
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 91. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 92. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 93. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 94. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 95. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 96. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 97. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 98. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 99. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
 100. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.

STATE OF OHIO
JONATHAN ROBERT SCHAAF
14502
REGISTERED ARCHITECT
Jonathan Robert Schaaf #14503
Expiration Date 12/31/2027
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RDA GROUP ARCHITECTS
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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506
Prepared for: Springfield Metropolitan Housing Authority

Project Number	
2024-112	
Date	
March 3, 2026	
Date	Issue
12.19.25	Review Set
01.12.26	Progress
02.02.26	90% Review Set
02.10.26	Bid / Construction Set
03.03.26	Addendum 01
Sheet Title	
Existing / Demolition First Floor Plan	
Sheet Number	
D1.21	



- # DEMOLITION KEY NOTES**
1. REMOVE EXISTING HANDRAIL COMPLETE, INCLUDING SUPPORTS, BRACKETS, END CAPS, ETC. SALVAGE HANDRAIL COMPONENTS AND TURN OVER TO OWNER.
 2. REMOVE EXISTING TRASH COMPACTOR EQUIPMENT COMPLETE. TERMINATE ELECTRICAL ETC.
 3. EXISTING ELECTRICAL CONDUITS TO REMAIN.
 4. REMOVE EXISTING FIRE EXTINGUISHER CABINET. SALVAGE EXISTING FIRE EXTINGUISHER FOR REUSE.
 5. REMOVE EXISTING DRINKING FOUNTAIN. CAP / TERMINATE PLUMBING SUPPLY AND DRAIN PIPING.
 6. EXISTING ELECTRICAL PANEL TO REMAIN.
 7. REMOVE EXISTING HVAC WALL DIFFUSER COMPLETE. EXISTING DUCT WORK TO REMAIN. COORDINATE W/ MECHANICAL DRAWINGS.
 8. REMOVE EXISTING ACCESS PANEL COMPLETE.
 9. EXISTING HOLLOW METAL UNIT ENTRY DOORS / FRAMES TO REMAIN.
 10. EXISTING HOLLOW METAL COMMON AREA DOORS / FRAMES TO REMAIN.
 11. EXISTING EXTERIOR DOORS / FRAMES TO REMAIN, INCLUDING SIDELIGHTS / GLAZING WHERE APPLICABLE.
 12. EXISTING WOOD FRAME / GYPSUM BOARD DEMISING WALLS TO REMAIN.
 13. EXISTING CMU WALL TO REMAIN.
 14. REMOVE EXISTING EXTERIOR DOOR AND FRAME COMPLETE.
 15. REMOVE EXISTING DWELLING UNIT WINDOWS.
 16. REMOVE EXISTING SUSPENDED ATC CEILING PADS & GRID COMPLETE.
 17. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURES COMPLETE. COORDINATE W/ ELECTRICAL DRAWINGS.
 18. REMOVE EXISTING EXIT SIGNS COMPLETE - EX. BRANCH CIRCUITRY TO REMAIN. COORDINATE W/ ELECTRICAL DRAWINGS.
 19. REMOVE EXISTING HVAC CEILING DIFFUSER COMPLETE. EXISTING DUCT WORK TO REMAIN. SALVAGE EX. AIR DEVICES FOR HIGH VELOCITY SYSTEM AT GROUND & FIRST FLOORS - REMOVE AT SECOND & THIRD FLOORS.
 20. EXISTING CAMERA TO REMAIN. REMOVE / REINSTALL AS REQ'D.
 21. EXISTING FIRE ALARM DEVICE / SMOKE DETECTOR TO REMAIN. REMOVE / REINSTALL AS REQ'D.
 22. REMOVE EXISTING SHINGLE ROOF. UNDERLAYMENT, AND ACCESSORIES COMPLETE DOWN TO EXISTING WOOD DECK. [ALL LAYERS - CONTRACTOR TO VERIFY PRIOR TO BIDDING]
 23. REMOVE EXISTING GUTTERS & DOWNSPOUTS COMPLETE.
 24. REMOVE EXISTING CONT. RIDGE VENT.
 25. REMOVE EXISTING EXHAUST VENT ROOF TERMINATION.
 26. REMOVE EXISTING LOW SLOPE ROOF SYSTEM COMPLETE DOWN TO EXISTING METAL DECK. REFER TO ROOF MATRIX.
 27. REMOVE EXISTING METAL EDGE COMPLETE AT RAISED PARAPET WALLS.
 28. EXISTING ROOF TOP HVAC EQUIPMENT TO REMAIN. REMOVE / REINSTALL AS REQ'D.
 29. REMOVE EXISTING SCUPPER COLLECTOR BOX & DOWNSPOUT COMPLETE.
 30. EXISTING GYP. BD. / PLASTER CEILING TO REMAIN.
 31. REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURES COMPLETE. EXISTING BRANCH CIRCUITRY TO REMAIN. COORDINATE W/ ELECTRICAL DRAWINGS.
 32. EXISTING THRU WALL LOUVER TO REMAIN.
 33. EXISTING EXPOSED BOILER PIPING TO REMAIN - REMOVE EXISTING INSULATION WRAP.
 34. EXISTING EXPOSED SPRINKLER PIPING TO REMAIN.
 35. EXISTING WATER SUPPLY PIPING TO REMAIN.
 36. EXISTING ELECTRICAL CONDUITS TO REMAIN.
 37. REMOVE EXISTING LOW SLOPE ROOF SADDLE THIS LOCATION. COMPLETE DOWN TO ROOF DECK.
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 41. REMOVE EXISTING DOOR AND FRAME COMPLETE.
 42. REMOVE EXISTING WOOD DOORS COMPLETE. EXISTING FRAME TO REMAIN.
 43. EXISTING WINDOW UNIT / FRAME TO REMAIN.
 44. REMOVE EXISTING UNIT ENTRY DOOR AND FRAME AT THIS LOCATION. SALVAGE EXISTING HARDWARE. MODIFY / REPAIR EXISTING ROUGH OPENING TO ADDRESS CURRENT DEFICIENCIES.
 45. EXISTING OVERHEAD DOOR TO REMAIN.
 46. REMOVE EXISTING ACCESS PANEL IN WALL COMPLETE. MODIFY OPENING FOR NEW DOOR. REFER TO PROPOSED PLANS.
 47. REMOVE EXISTING FINISH FLOOR [AND UNDERLAYMENT AS APPLICABLE] AND FINISH BASE.
 48. REMOVE EXISTING AWNING FABRIC - EXISTING ALUMINUM FRAME TO REMAIN.
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 52. EXISTING A/C UNIT TO REMAIN. SET ON PAD.
 53. EXISTING LIGHT FIXTURES TO REMAIN.
 54. REMOVE ALL EXISTING 8x8 COMBUSTION AIR DEVICES LOCATED HIGH ON WALL. FV ALL LOCATIONS.
 55. REMOVE EXISTING ABANDONED HVAC LOUVER THIS LOCATION. ABANDON EXISTING DUCT WORK. PREP OPENING FOR INFILL.



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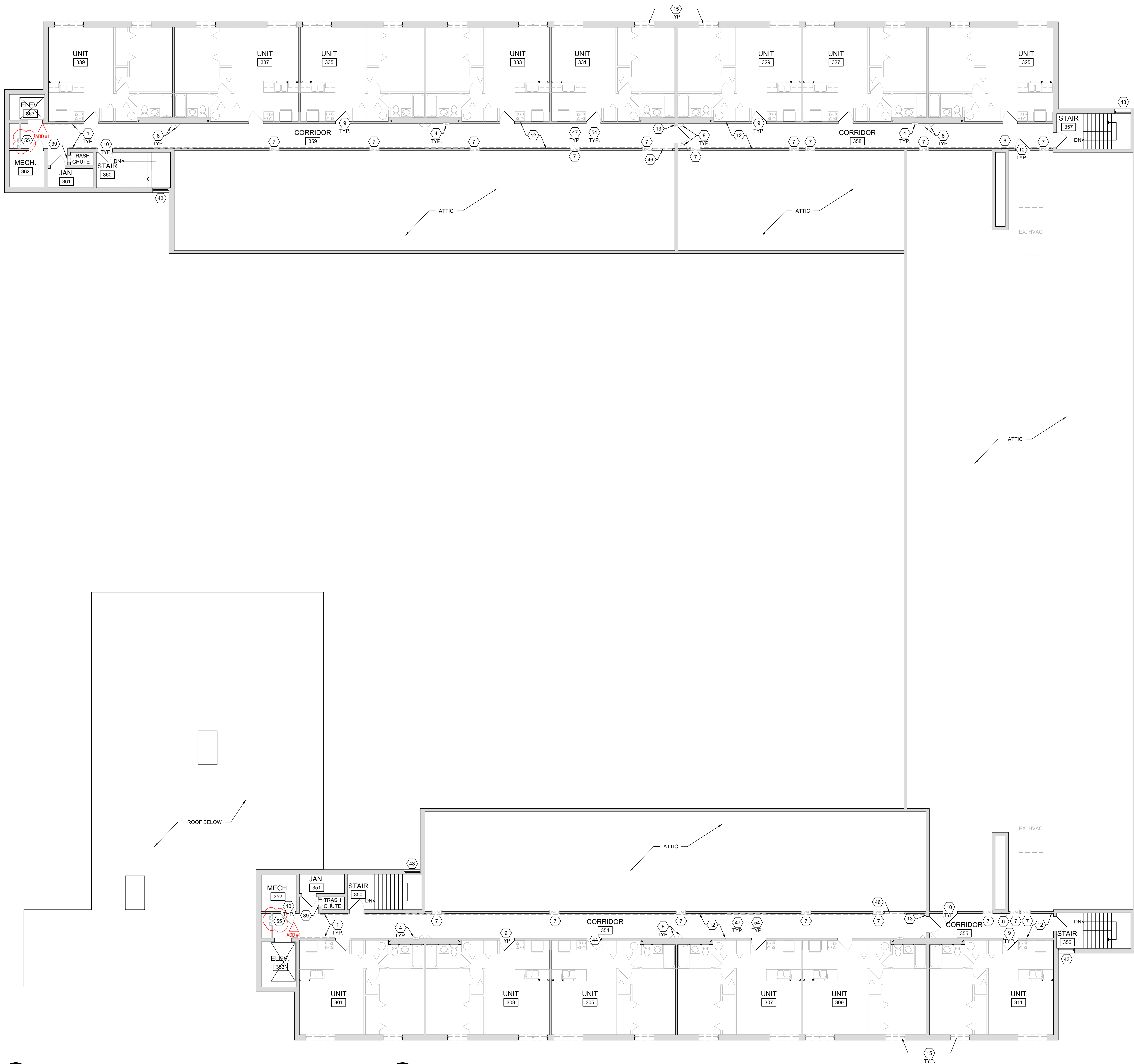
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03.03.26	Addendum 01

Sheet Title
Existing / Demolition
Second Floor Plan

Sheet Number

D1.31



- # DEMOLITION KEY NOTES**
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 10. EXISTING HOLLOW METAL COMMON AREA DOORS / FRAMES TO REMAIN. EXISTING DOOR HARDWARE TO REMAIN. COORDINATE W/ DOOR SCHEDULE.
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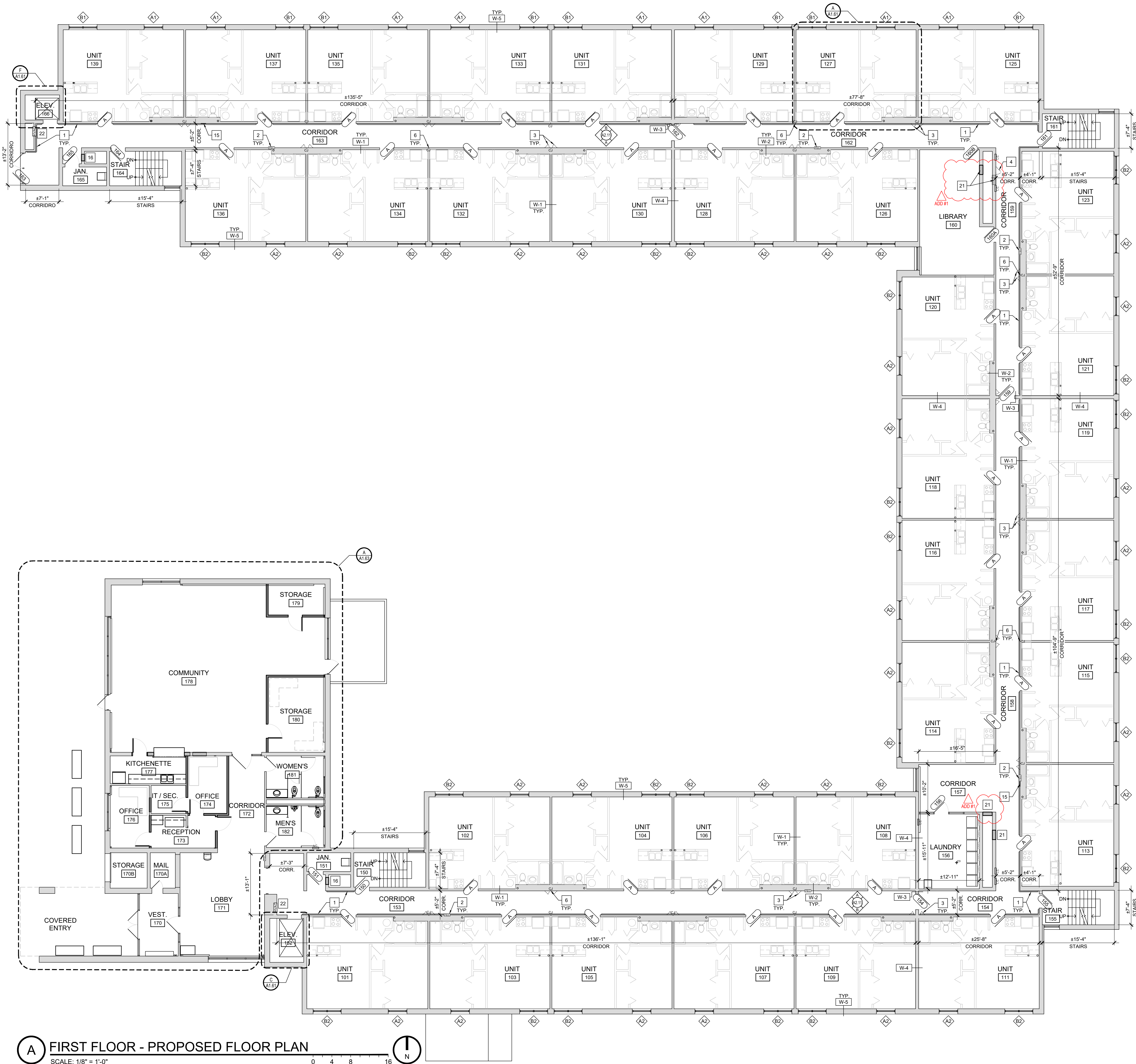
Sheet Title
Existing / Demolition
Third Floor Plan

Sheet Number

D1.41



A1.11



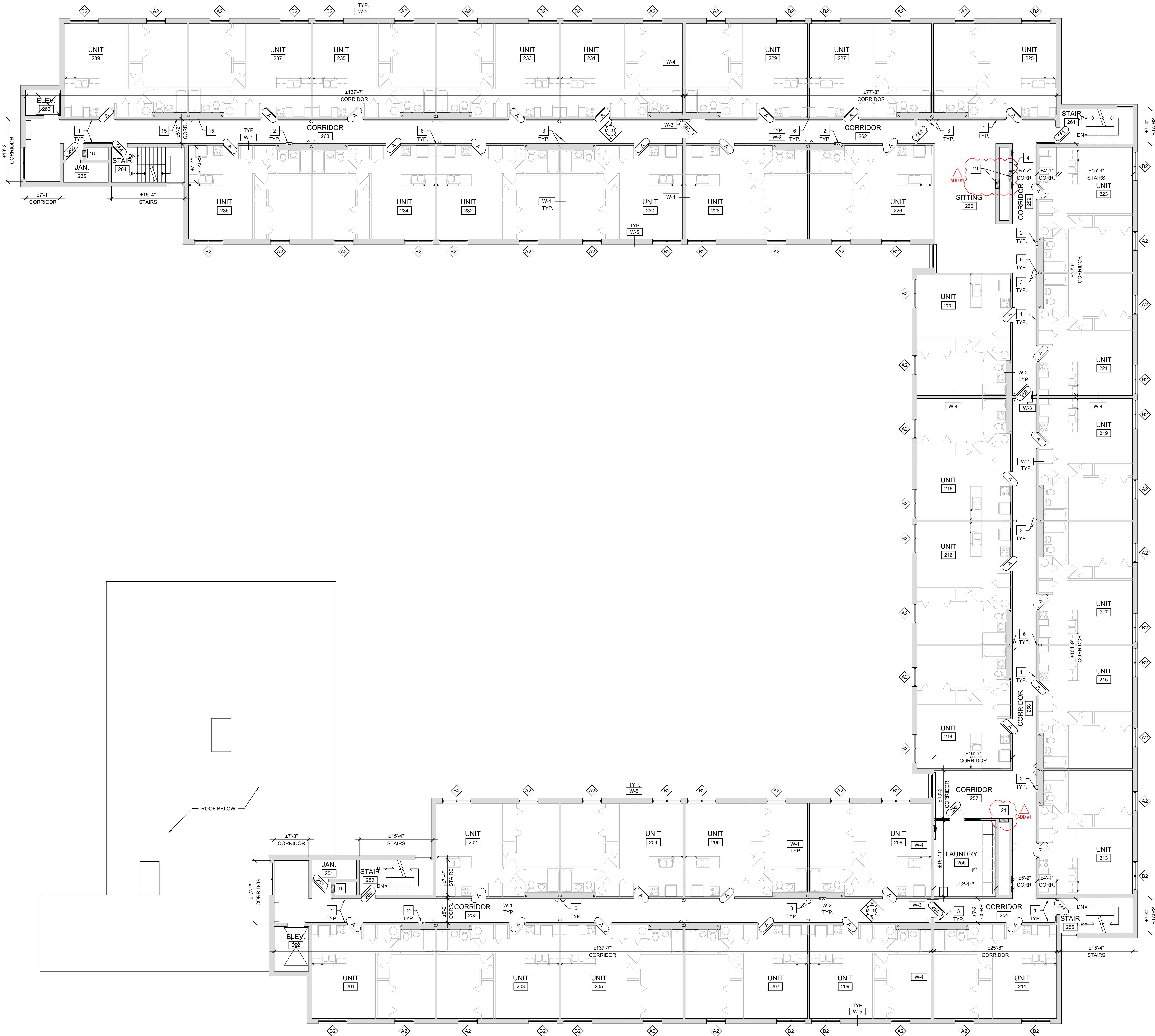
- # NEW CONSTRUCTION KEY NOTES**
1. INSTALL NEW WALL MOUNTED HANDRAIL SYSTEM. REFER TO INTERIOR ELEVATIONS AND TYPICAL DETAILS ON SHEET A4.21.
 2. INSTALL NEW FIRE RATED FIRE EXTINGUISHER CABINET INTO EXISTING DEMISING WALL. MODIFY / REPAIR EXISTING WALL OPENING AS REQ'D. TO ACCOMMODATE NEW CABINET. INSTALL SALVAGED FIRE EXTINGUISHER. REFER TO TYPICAL DETAIL B/A4.22.
 3. INSTALL NEW FIRE RATED 12" x 18" PLUMBING ACCESS PANELS INTO EXISTING DEMISING WALL. MODIFY / REPAIR EXISTING WALL OPENING AS REQ'D.
 4. INSTALL NEW FIRE RATED 24" x 36" ACCESS PANELS INTO EXISTING WALL. MODIFY / REPAIR EXISTING WALL OPENING AS REQ'D.
 5. REPAIR EXISTING FINISHES AT AREA OF REMOVED DRINKING FOUNTAIN.
 6. INSTALL GYPSUM BOARD CONTROL JOINT AT INTERSECTION OF UNIT DEMISING WALLS. TYP. OF ALL LOCATIONS NOTED 'CJ' ON DRAWINGS. REFER TO TYPICAL DETAIL B/A4.21
 7. INSTALL NEW ICE & WATER SHIELD, SYNTHETIC UNDERLAYMENT, AND SHINGLE ROOF SYSTEM COMPLETE WITH ALL FLASHINGS, TERMINATIONS, ETC.
 8. INSTALL NEW PRE-FINISHED ALUMINUM GUTTERS & DOWNSPOUTS.
 9. INSTALL NEW CONTINUOUS RIDGE VENT. (SHINGLE OVER STYLE)
 10. INSTALL NEW EXHAUST VENT ROOF CAP. CONNECT TO EX. DUCTWORK AT DECK.
 11. INSTALL NEW LOW SLOPE ROOF SYSTEM. REFER TO DETAILS.
 12. INSTALL NEW PRE-FINISHED ALUMINUM EDGE METAL. REFER TO DETAILS.
 13. EXISTING ROOF TOP HVAC EQUIPMENT TO REMAIN. REMOVE / REINSTALL AS REQ'D. FLASH TO NEW ROOF SYSTEM AS APPLICABLE.
 14. INSTALL NEW PRE-FINISHED ALUMINUM SCUPPER COLLECTOR BOX & DOWNSPOUT.
 15. REPAIR EXISTING FINISHES AT AREA OF REMOVED ACCESS PANEL.
 16. INFILL EXISTING WALL AS REQUIRED WHERE TRASH CHUTE DOOR PANEL WAS REMOVED. MATCH EX. ADJ. WALL CONSTRUCTION. REFER TO DETAIL L/A4.21
 17. MODIFY EXISTING ACCESS PANEL OPENING AS REQUIRED FOR NEW DOOR OPENING.
 18. REMOVE / REPLACE DAMAGED VENT PIPE IN LIKE KIND.
 19. REMOVE EXISTING ROOF AT CRICKET BEHIND RAISED WALL. INSTALL NEW COVERBOARD OVER EXISTING PLYWOOD DECK. INSTALL NEW 60 MIL. SELF ADHERED EPDM ROOF SYSTEM.
 20. INSTALL NEW FABRIC AWNING OVER EXISTING ALUMINUM FRAME.
 21. INFILL EXISTING WALL AS REQUIRED WHERE LOUVER WAS REMOVED. MATCH EX. ADJ. WALL CONSTRUCTION. REFER TO DETAIL L/A4.21.
 22. INSTALL NEW HVAC WALL DIFFUSER AT EXISTING LOCATION. REFER TO MECHANICAL DRAWINGS.
 23. EXISTING GAS PIPING TO REMAIN. INSTALL NEW MOLDED PIPE SUPPORTS AT 6'-0" OC MAX.
 24. REMOVE AND RESET A/C UNIT ON FIBERGLASS PAD. SET ON SACRIFICIAL SHEET.



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03.03.26	Addendum 01
Sheet Title	
First Floor Proposed Floor Plan	
Sheet Number	

A1.21



- # NEW CONSTRUCTION KEY NOTES
1. INSTALL NEW WALL MOUNTED HANDRAIL SYSTEM. REFER TO INTERIOR ELEVATIONS AND TYPICAL DETAILS ON SHEET A4.21.
 2. INSTALL NEW FIRE RATED FIRE EXTINGUISHER CABINET INTO EXISTING DEMISING WALL. MODIFY / REPAIR EXISTING WALL OPENING AS REQ'D. TO ACCOMMODATE NEW CABINET. INSTALL SALVAGED FIRE EXTINGUISHER. REFER TO TYPICAL DETAIL B/A4.22.
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 11. INSTALL NEW LOW SLOPE ROOF SYSTEM. REFER TO DETAILS.
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 13. EXISTING ROOF TOP HVAC EQUIPMENT TO REMAIN. REMOVE / REINSTALL AS REQ'D. FLASH TO NEW ROOF SYSTEM AS APPLICABLE.
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 15. REPAIR EXISTING FINISHES AT AREA OF REMOVED ACCESS PANEL.
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 23. EXISTING GAS PIPING TO REMAIN. INSTALL NEW MOLDED PIPE SUPPORTS AT 6'-0" OC MAX.
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Sheet Title
Second Floor
Proposed Floor Plan

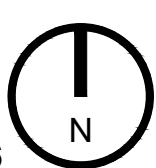
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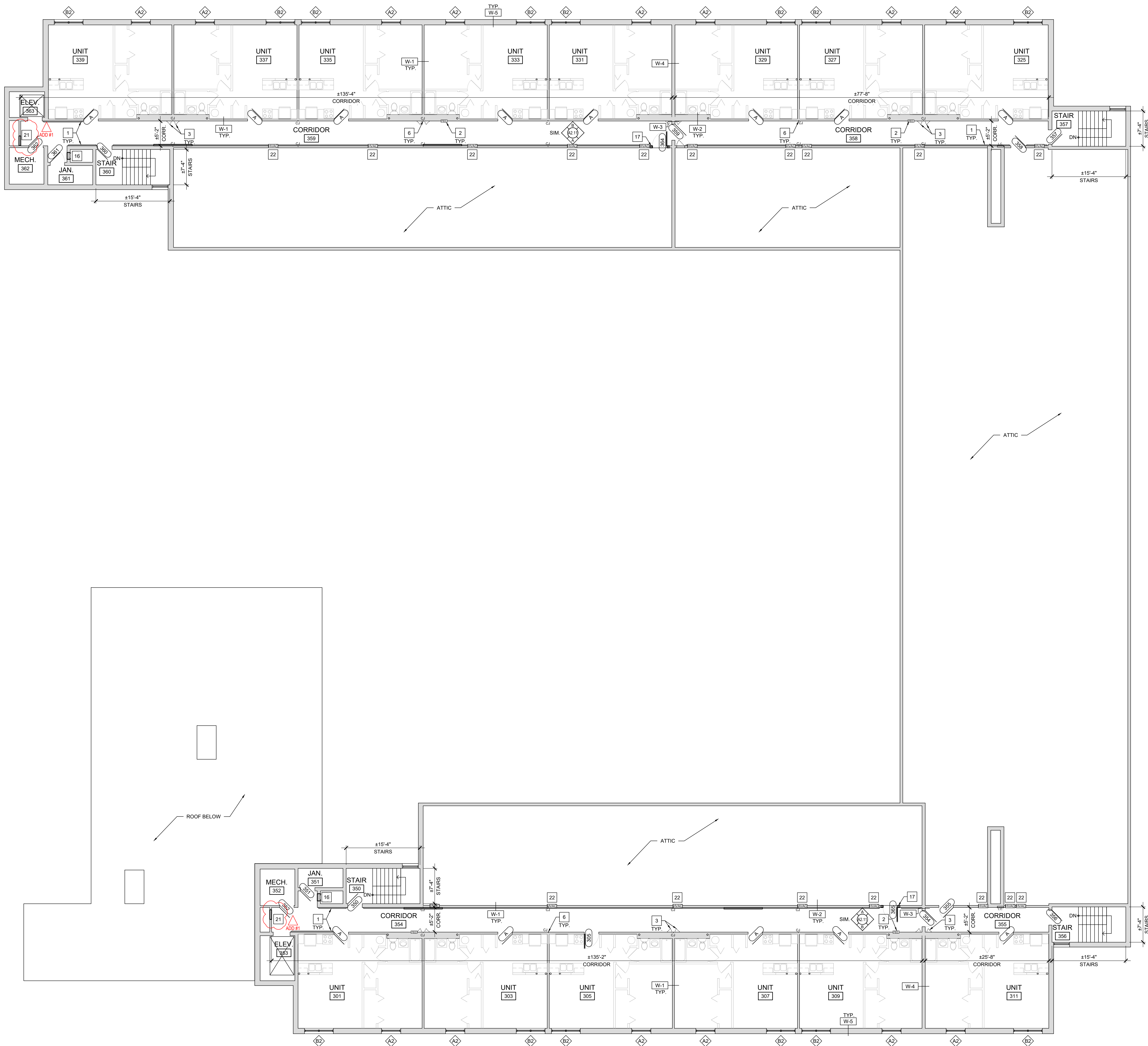
A1.31

A SECOND FLOOR - PROPOSED FLOOR PLAN

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

0 4 8 16





A THIRD FLOOR - PROPOSED FLOOR PLAN
SCALE: 1/8" = 1'-0"

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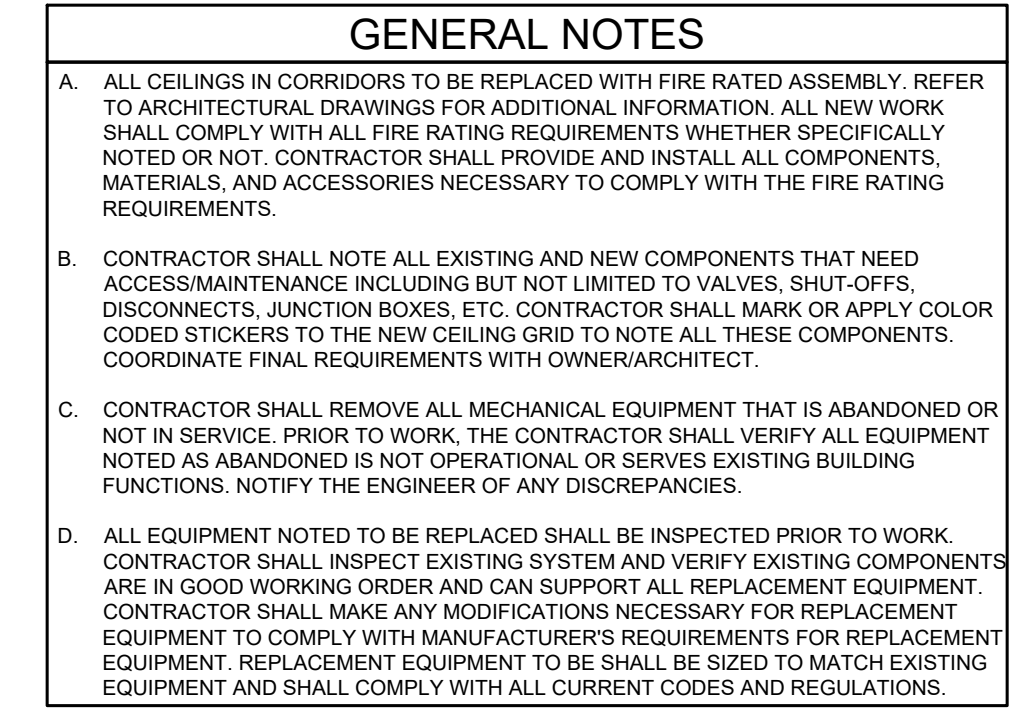


RDA GROUP ARCHITECTS
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Springfield, Ohio 45506
Prepared for: Springfield Metropolitan Housing Authority

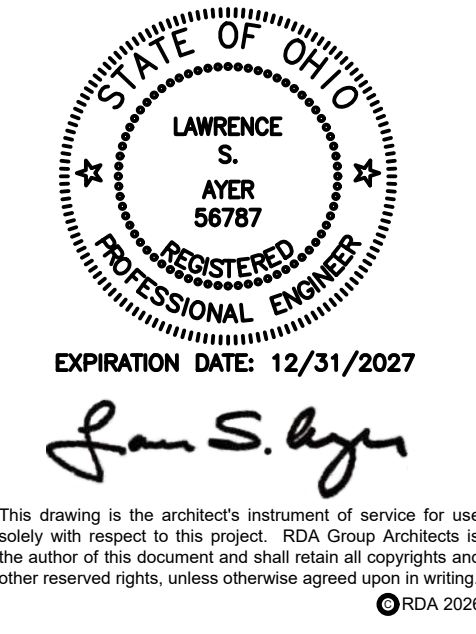
Project Number	
2024-112	
Date	
March 3, 2026	
Date	Issue
12.19.25	Review Set
01.12.26	Progress
02.02.26	90% Review Set
02.10.26	Bid / Construction Set
03.03.26	Addendum 01
Sheet Title	
Third Floor Proposed Floor Plan	
Sheet Number	

A1.41



PLAN NOTES

①	NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
②	EXISTING GELING DIFFUSERS AND AIR TERMINALS IN CORRIDORS TO BE REMOVED AND REPLACED. ASSOCIATED EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXIST EXLOCATIONS AND QUANTITIES.
③	EXISTING HEAT PUMP TO REMAIN. NO WORK REQUIRED.
④	REMOVE COVERS FROM EXISTING BASEBOARD HEATER AND PREPARE FOR REPLACEMENT COVERS. EXISTING BASEBOARD HEATER TO REMAIN OPERATIONAL.
⑤	EXISTING WALL CASSETTE TO REMAIN. NO WORK REQUIRED.
⑥	EXISTING THERMOSTAT TO REMAIN. REMOVE EXISTING THERMOSTAT COVER.
⑦	REMOVE EXISTING WALL GRILLE IN CORRIDOR. FIELD VERIFY EXIST EXLOCATIONS AND QUANTITIES. PREPARE FOR WALL INFILL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
⑧	REMOVE EXISTING WALL GRILLE IN CORRIDOR AND PREPARE FOR REPLACEMENT. FIELD VERIFY EXIST EXLOCATIONS AND QUANTITIES.
⑨	BASE BID: EXISTING CONDENSING UNIT FOR HIGH VELOCITY SYSTEM TO REMAIN. NO WORK REQUIRED.
⑩	ALTERNATE #09: EXISTING CONDENSING UNIT FOR HIGH VELOCITY SYSTEM TO BE REPLACED. REMOVE EXISTING SYSTEM AND RELATED LINE SETS. PREPARE FOR NEW WORK.
⑪	BASE BID: EXISTING HIGH VELOCITY SYSTEM TO REMAIN. VERIFY EXISTING EQUIPMENT IS FULLY OPERATIONAL.
⑫	ALTERNATE #09: EXISTING HIGH VELOCITY SYSTEM BLOWER, COIL, AND DUCT HEATER TO BE REPLACED. REMOVE EXISTING BLOWER, COIL, DUCT HEATER, AND RELATED LINE SETS. PREPARE FOR NEW WORK. TYPICAL FOR ALL SYSTEMS.
⑬	BASE BID: EXISTING CONDENSING UNIT TO REMAIN. NO WORK REQUIRED.
⑭	ALTERNATE #11: REMOVE EXISTING CONDENSING UNIT THAT SERVES AIR HANDLER IN THIRD FLOOR ATT. CONDENSING UNIT TO BE REPLACED WITH HEAT PUMP EQUIPMENT. FIELD VERIFY EXISTING EQUIPMENT.
⑮	BASE BID: EXISTING REFRIGERANT LINES TO REMAIN. NO WORK REQUIRED.
⑯	ALTERNATE #11: REFRIGERANT LINES ASSOCIATED WITH CONDENSING UNIT TO BE REMOVED. SALVAGE EXTERIOR WALL COVER FOR REFRIGERANT LINES FOR REUSE.
⑰	BASE BID: EXISTING OUTDOOR AIR LOUVER TO REMAIN.
⑱	ALTERNATE #09: REMOVE EXISTING OUTDOOR AIR LOUVER AND PREPARE FOR REPLACEMENT. FIELD VERIFY EXISTING LOCATION AND SIZE.



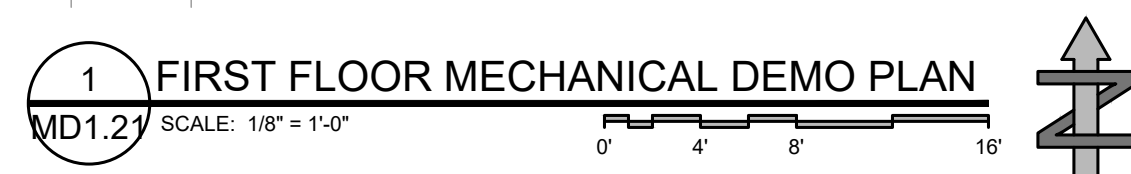

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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

Project Number	
2024-112	
Date	
January 12, 2026	
Date	Issue
12.19.25	Progress
01.12.26	Progress
02.02.26	90% Review Set
02.12.26	Bid/Construction Set
03.03.26	Addendum # 1
Sheet Title	
GROUND FLOOR MECHANICAL DEMO PLAN	
Sheet Number	

MD1.11



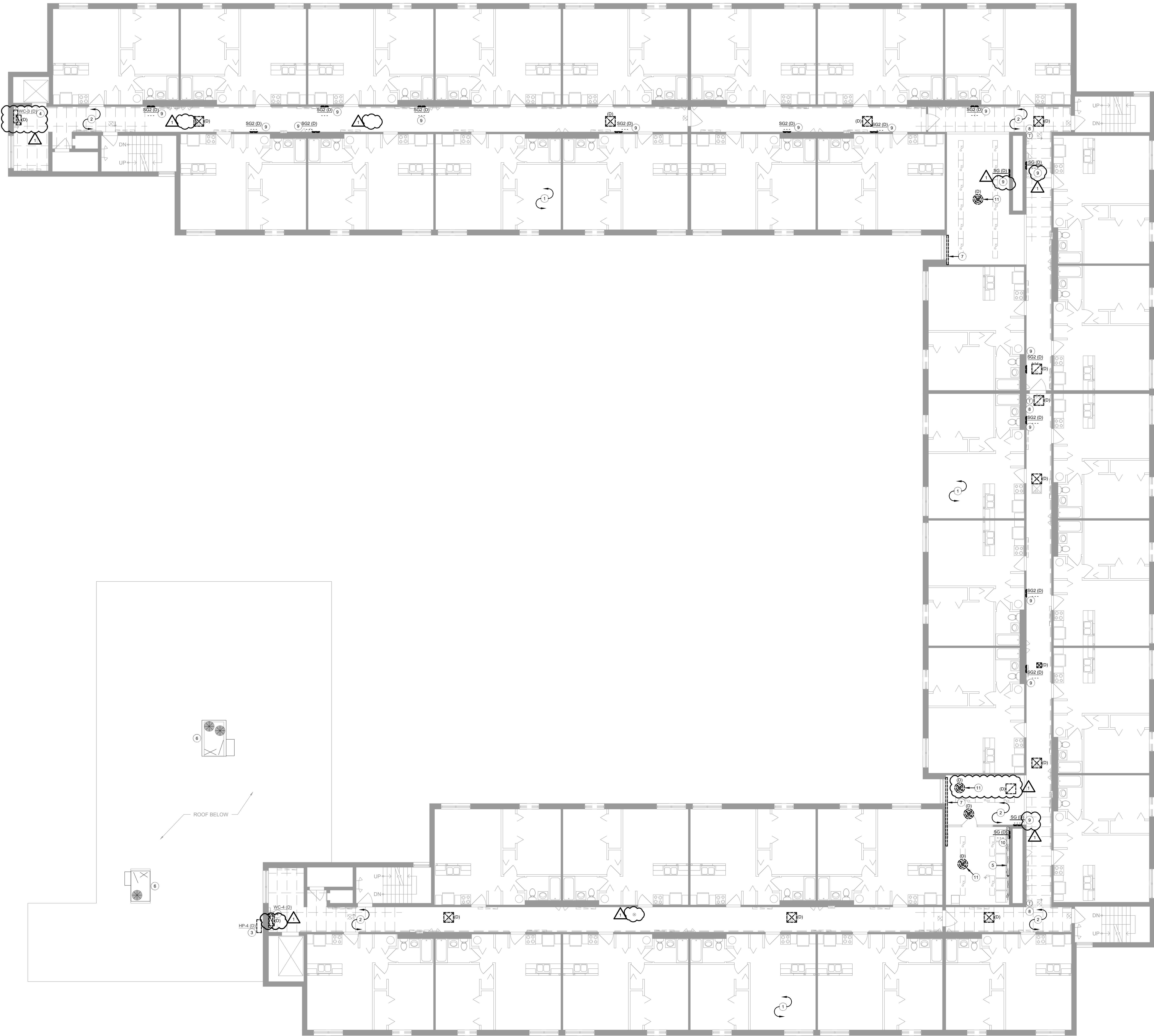
PLAN NOTES	
1	NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
2	EXISTING CEILING DIFFUSERS AND AIR TERMINALS IN CORRIDORS TO BE REMOVED AND REPLACED. ASSOCIATED EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.
3	REMOVE EXISTING DIFFUSERS. EXISTING DUCTWORK TO REMAIN AS REQUIRED. FOR NEW WORK, REFER TO M-1.1 FOR ADDITIONAL INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK.
4	BASE BID: EXISTING HEAT PUMP TO BE REPLACED. REMOVE EXISTING SYSTEM AND RELATED LINE SETS. PREPARE FOR NEW WORK.
5	ALTERNATE #10: EXISTING HEAT PUMP AND RELATED LINE SETS TO BE REMOVED.
6	EXISTING DIFFUSER TO BE REMOVED AND REPLACED. EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXISTING DIFFUSER SIZE AND AIR FLOW PRIOR TO WORK.
7	EXISTING DRYER DUCTS TO REMAIN. CLEAN ALL EXISTING DRYER DUCTS. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
8	REMOVE COVERS FROM EXISTING BASEBOARD HEATER AND PREPARE FOR REPLACEMENT COVERS. EXISTING BASEBOARD HEATER TO REMAIN OPERATIONAL.
9	EXISTING CABINET HEATER TO REMAIN. NO WORK REQUIRED.
10	EXISTING HEAT PUMP TO REMAIN. NO WORK REQUIRED.
11	EXISTING THERMOSTAT TO REMAIN. REMOVE EXISTING THERMOSTAT COVER.
12	NOT USED
13	NOT USED
14	REMOVE EXISTING CABINET HEATER COVERS. EXISTING HEATER TO REMAIN AND SEAL. REMAIN FUNCTIONAL. FIELD VERIFY SIZE AND LOCATION OF EXISTING HEATER PRIOR TO WORK. PREPARE FOR REPLACEMENT COVER.
15	REMOVE EXISTING WALL GRILLE IN CORRIDOR. FIELD VERIFY EXACT LOCATION AND QUANTITIES.
16	REMOVE EXISTING WALL GRILLE IN CORRIDOR AND PREPARE FOR REPLACEMENT. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.
17	EXISTING CEILING DIFFUSER TO BE REMOVED AND REPLACED. ASSOCIATED EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.



Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

Project Number 2024-112	
Date January 12, 2026	
Date	Issue
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02.02.26	90% Review Set
02.12.26	Bid/Construction
03.03.26	Addendum #1
Sheet Title FIRST FLOOR MECHANICAL D PLAN	
Sheet Number	

MD1.21



GENERAL NOTES

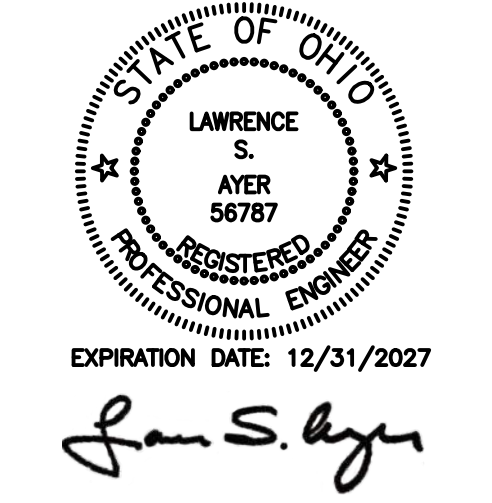
A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.

B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

C. CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

D. ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO BE SHALL BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES	
1	NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
2	EXISTING CEILING DIFFUSERS AND GRILLES IN CORRIDORS TO BE REMOVED UNLESS NOTED OTHERWISE. FIELD VERIFY EXACT LOCATIONS.
3	BASE BID: EXISTING HEAT PUMP TO BE REPLACED. REMOVE EXISTING SYSTEM AND RELATED LINE SETS. PREPARE FOR NEW WORK.
4	ALTERNATE #10: EXISTING HEAT PUMP AND RELATED LINE SETS TO BE REMOVED.
5	BASE BID: EXISTING WALL CASSETTE TO BE REPLACED. REMOVE EXISTING SYSTEM AND RELATED LINE SETS. PREPARE FOR NEW WORK.
6	ALTERNATE #10: REMOVE EXISTING WALL CASSETTE AND RELATED LINE SETS.
7	EXISTING DRYER DUCTS TO REMAIN. CLEAN ALL EXISTING DRYER DUCTS. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
8	EXISTING RTU TO REMAIN.
9	REMOVE COVERS FROM EXISTING BASEBOARD HEATER AND PREPARE FOR REPLACEMENT COVERS. EXISTING BASEBOARD HEATER TO REMAIN OPERATIONAL.
10	EXISTING THERMOSTAT TO REMAIN. REMOVE EXISTING THERMOSTAT COVER.
11	REMOVE EXISTING WALL GRILLE IN CORRIDOR. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.
12	REMOVE EXISTING WALL GRILLE AND PREPARE FOR REPLACEMENT. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.
13	EXISTING CEILING DIFFUSERS TO BE REMOVED AND REPLACED. ASSOCIATED EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATIONS AND QUANTITIES.



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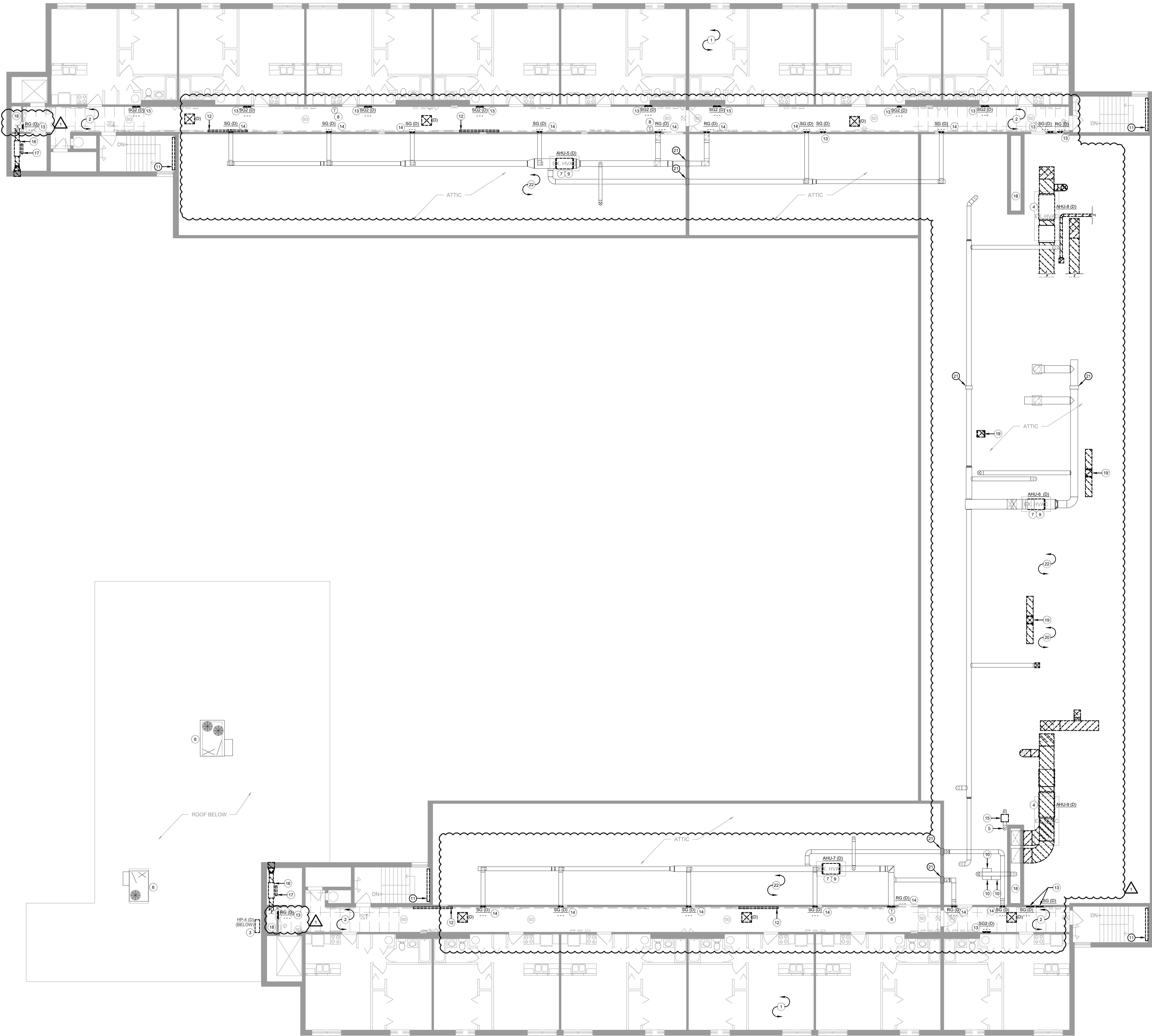


Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506
Prepared for: Springfield Metropolitan Housing Authority

Project Number	2024-112
Date	January 12, 2026
Date	Issue
12.19.25	Progress
01.12.26	Progress
02.02.26	90% Review Set
02.12.26	Bid/Construction Set
03.03.26	Addendum #1

Sheet Title
SECOND FLOOR MECHANICAL
DEMO PLAN
Sheet Number

MD1.31



GENERAL NOTES

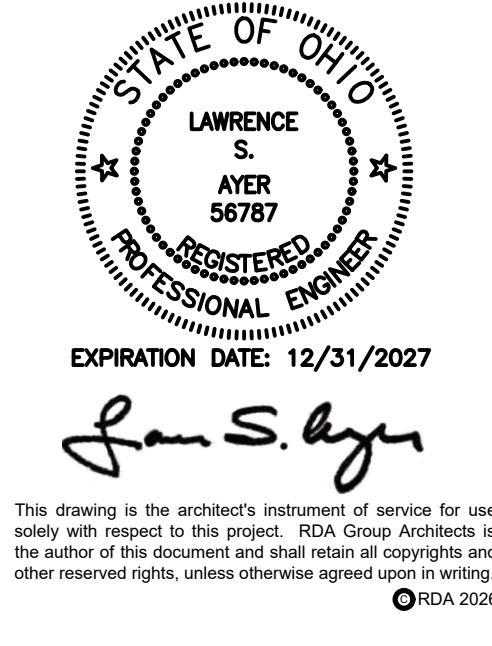
A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.

B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

C. CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL, OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

D. ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO BE SHALL BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES	
1	NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
2	EXISTING CEILING DIFFUSERS IN CORRIDORS TO BE REMOVED. FIELD VERIFY EXACT LOCATIONS.
3	EXISTING HEAT PUMP TO BE REPLACED. REMOVE EXISTING SYSTEM AND RELATED LINE SETS. PREPARE FOR NEW WORK.
4	REMOVE EXISTING ABANDONED AIR HANDLER AND CONNECTED DUCTWORK. FIELD VERIFY ROUTING, SIZING, AND QUANTITIES.
5	EXISTING DRYER DUCTS TO REMAIN. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
6	EXISTING RTU TO REMAIN. NO WORK REQUIRED.
7	BASE BID: EXISTING AIR HANDLING UNIT TO REMAIN. NO WORK REQUIRED.
8	ALTERNATE #11: REMOVE EXISTING AIR HANDLING UNIT. EXISTING DUCTWORK TO REMAIN. AIR HANDLER TO BE REPLACED AND SHALL MATCH EXISTING UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING EQUIPMENT.
9	EXISTING THERMOSTAT TO REMAIN. REMOVE EXISTING THERMOSTAT COVER.
10	BASE BID: EXISTING REFRIGERANT LINES TO REMAIN. NO WORK REQUIRED.
11	ALTERNATE #11: REMOVE EXISTING REFRIGERANT LINE SETS FOR AIR HANDLER TO BE REPLACED.
12	THREE (3) EXISTING DUCT HEATERS AND RELATED DUCTWORK PROVIDING MAKE-UP AIR TO LAUNDRY ROOMS TO REMAIN. VERIFY EXISTING EQUIPMENT IS IN GOOD WORKING ORDER. FIELD VERIFY EXISTING CONDITIONS.
13	REMOVE EXISTING CABINET HEATER COVERS. EXISTING HEATER TO REMAIN AND SHALL REMAIN FUNCTIONAL. FIELD VERIFY SIZE AND LOCATION OF EXISTING HEATER PRIOR TO WORK. PREPARE FOR REPLACEMENT COVER.
14	REMOVE EXISTING BASEBOARD HEATER. BASEBOARD HEATER TO BE REPLACED WITH EQUAL. FIELD VERIFY EXISTING EQUIPMENT.
15	REMOVE EXISTING WALL GRILLE IN CORRIDOR AND PREPARE FOR INFILL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATIONS.
16	REMOVE EXISTING WALL GRILLE IN CORRIDOR AND PREPARE FOR REPLACEMENT GRILLE. FIELD VERIFY EXACT LOCATIONS, SIZES, AND QUANTITIES.
17	EXISTING DRYER DUCT BOOSTER FAN TO BE REPLACED. REMOVE EXISTING BOOSTER FAN. EXISTING DUCT WORK TO REMAIN. PREPARE FOR NEW WORK.
18	EXISTING DUCT HEATER SYSTEM HAS BEEN ABANDONED. REMOVE EXISTING DUCT HEATER SYSTEM, RELATED DUCTWORK, AND ALL OTHER RELATED COMPONENTS. FIELD VERIFY EXISTING CONDITIONS.
19	EXISTING BASEBOARD HEATER HAS BEEN ABANDONED. REMOVE EXISTING BASEBOARD HEATER AND ALL RELATED COMPONENTS. FIELD VERIFY EXISTING CONDITIONS.
20	EXISTING DUCTWORK IN SHAFT MAY BE ABANDONED IN PLACE. PREPARE FOR INFILL AT ALL PENETRATIONS IN OCCUPIED SPACES.
21	REMOVE ALL DUCTWORK THAT HAS BEEN DISCONNECTED AND ABANDONED IN PLACE. NOT ALL DUCTWORK IS SHOWN ON PLANS. FIELD VERIFY EXISTING CONDITIONS, LOCATIONS, AND QUANTITIES.
22	EXISTING DUCTWORK STILL IN SERVICE (I.E. EXHAUST DUCTS) SHALL REMAIN. EXISTING DUCTWORK STILL IN SERVICE IS NOT SHOWN ON PLANS. FIELD VERIFY EXISTING CONDITIONS, LOCATIONS, AND QUANTITIES.
23	EXISTING FIRE DAMPER TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
24	FIELD VERIFY EXISTING DUCTWORK ROUTING IN ATTIC PRIOR TO ANY WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW WORK.



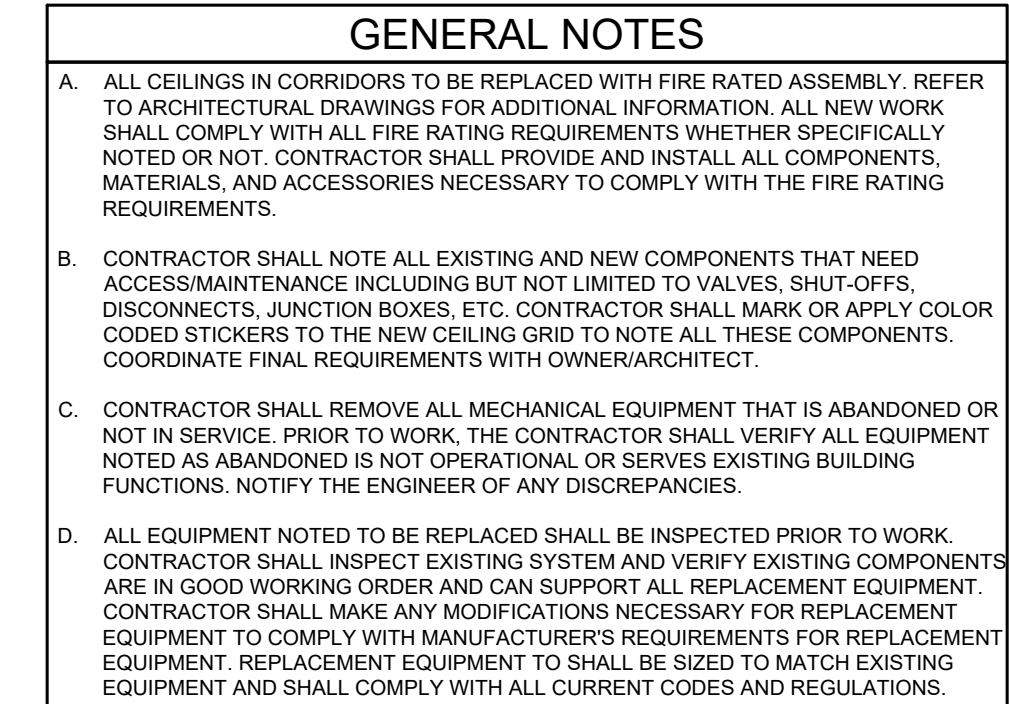
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Modernization Project 2026 at:
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220 Montgomery Avenue
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Prepared for: Springfield Metropolitan Housing Authority

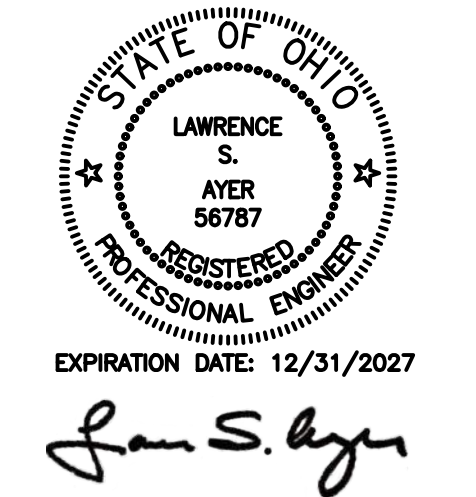
Project Number	
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Date	
January 12, 2026	
Date	Issue
12.19.25	Progress
01.12.26	Progress
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03.03.26	Addendum #1
Sheet Title	
THIRD FLOOR MECHANICAL DEMO PLAN	
Sheet Number	

MD1.41



PLAN NOTES

- ① NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
- REPLACE EXHAUST DUFFLERS, GRILLS, AND REGISTERS WITH FINE PATED ALUMINUM. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FINE PATED ALUMINUM, FERRY VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- PROVIDE AND INSTALL REPLACEMENT HEAT PUMP AND LINE SETS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FERRY VERIFY EXISTING CONDITIONS. COORDINATE FINISH WITH ARCHITECTURE.
- BASIS: EXISTING COMBUSTION UNIT FOR HIGH VELOCITY SYSTEM TO REMAIN. NO WORK REQUIRED.
- ALTERNATE #09: PROVIDE AND INSTALL HEAT PUMP AND LINE SETS FOR HIGH VELOCITY SYSTEM. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FERRY VERIFY EXISTING CONDITIONS. BASE BID: EXISTING HIGH VELOCITY SYSTEM TO REMAIN. NO WORK REQUIRED.
- ALTERNATE #09: PROVIDE AND INSTALL REPLACEMENT BLOWER, COIL, AND DUCT HEATER FOR HIGH VELOCITY SYSTEM. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FERRY VERIFY EXISTING CONDITIONS. TYPICAL REFRIGERANT IN ROOM.
- BASE BID: EXISTING BLOWER FOR EXISTING BASEROUND HEATER. EXISTING BASEROUND HEATER TO REMAIN OPERATIONAL. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- EXISTING WALL GRILL TO BE REPLACED. REPLACEMENT GRILL TO BE FIRE RATED AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. GRILL TO BE SIZED TO MATCH EXISTING. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- BASIS: EXISTING CONDITIONS. NO WORK REQUIRED.
- ALTERNATE #11: INSTALL HEAT PUMP THAT SERVES AIR HANDLER IN THIRD FLOOR ATTIC (AS SHOWN). INSTALL HEAT PUMP PER MANUFACTURERS INSTRUCTIONS. FIELD VERIFY EXISTING PAD LOCATION.
- BASE BID: EXISTING REFRIGERANT LINES TO REMAIN. NO WORK REQUIRED.
- ALTERNATE #11: INSTALL NEW REFRIGERANT LINES FROM HEAT PUMP TO AIR HANDLER ON THIRD FLOOR. FIELD VERIFY EXISTING CONDITIONS. BASE BID: DURING DEMO, REFRIGERANT LINES SHALL BE ROUTED TO COMPLY WITH ALL CURRENT CODES AND REGULATIONS.
- ALTERNATE #10: PROVIDE AND INSTALL HEAT PUMP AND LINE SETS FOR HIGH VELOCITY SYSTEM. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.



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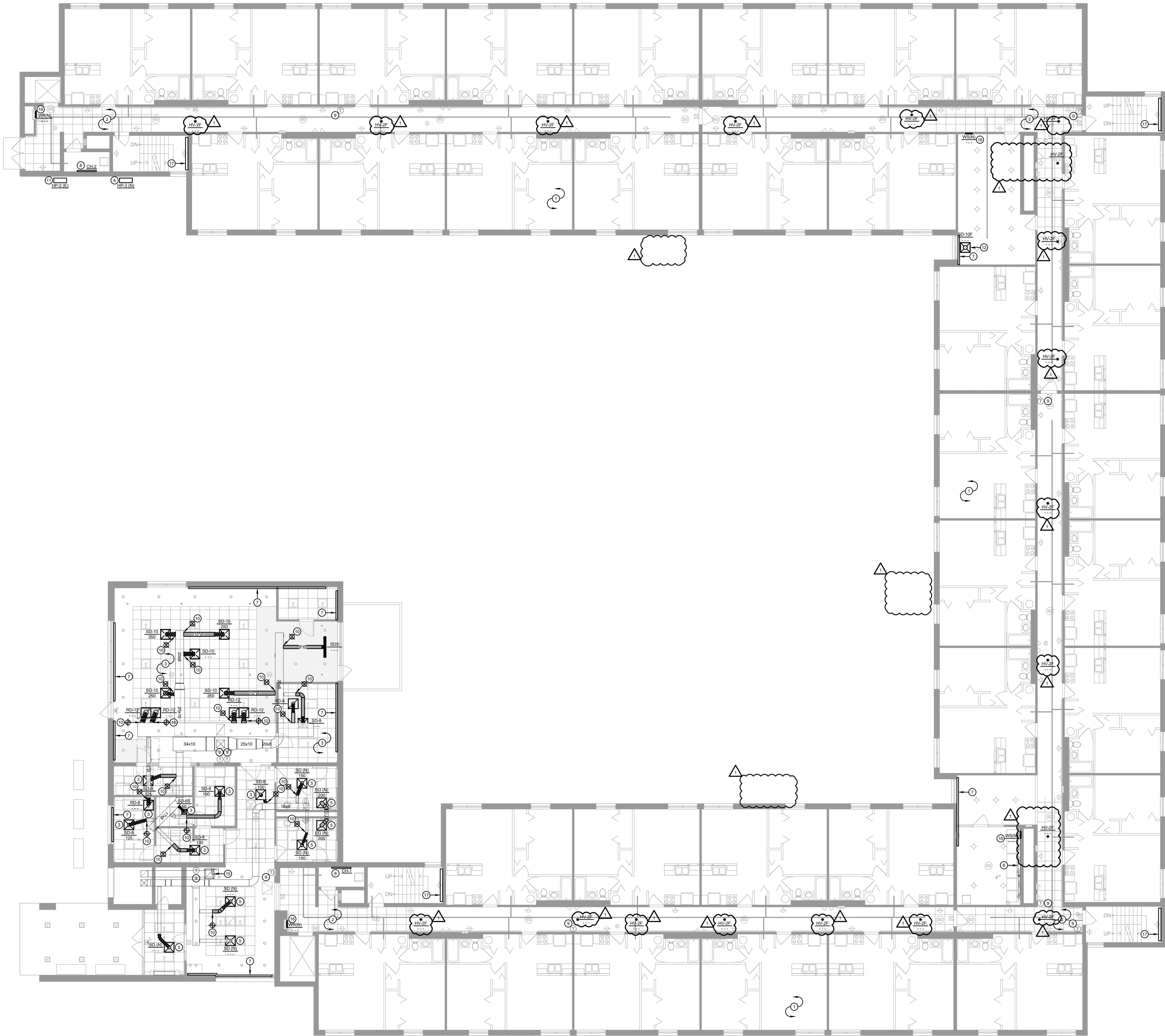
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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

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03.03.26	Addendum #1
Sheet Title	
GROUND FLOOR MECHANICAL PLAN	
Sheet Number	

M1.11



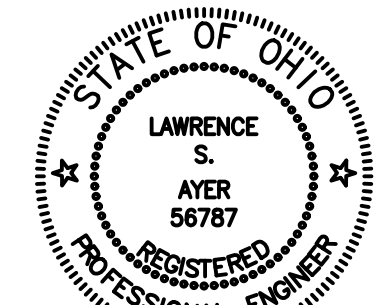
1 FIRST FLOOR MECHANICAL PLAN
M1.21 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.
- B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.
- C. CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- D. ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES

- 1 NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
- 2 REPLACE EXISTING DIFFUSERS, GRILLES, AND REGISTERS IN CORRIDORS WITH FIRE RATED DIFFUSERS, GRILLES, AND REGISTERS. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- 3 INSTALL NEW DIFFUSERS IN NEW CEILING. PROVIDE ALL ADDITIONAL DUCTWORK, TAKEOFF, AND TAPS AS NEEDED TO CONNECT TO NEW DIFFUSERS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 4 BASE BID: PROVIDE AND INSTALL REPLACEMENT HEAT PUMP AND LINE SETS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
- 5 ALTERNATE #10: REFER TO NOTE #11 ON SHEET M1.31, IN LIEU OF BASE BID SCOPE.
- 6 PROVIDE AND INSTALL REPLACEMENT DIFFUSER. PROVIDE ALL MODIFICATIONS NECESSARY FOR EXISTING DUCTWORK AS REQUIRED FOR A COMPLETE WORKING SYSTEM. REBALANCE DIFFUSER AS REQUIRED TO MATCH EXISTING AIR FLOW. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 7 EXISTING DRYER DUCTS TO REMAIN. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
- 8 REPLACE COVERS FOR EXISTING BASEBOARD HEATER. EXISTING BASEBOARD HEATER TO REMAIN OPERATIONAL. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- 9 INSTALL COVE HEATER AND ALL NECESSARY ACCESSORIES AND COMPONENTS FOR A COMPLETE INSTALL. FIELD VERIFY FINAL LOCATION.
- 10 EXISTING THERMOSTAT TO REMAIN. PROVIDE AND INSTALL NEW VANDAL-RESISTANT THERMOSTAT COVER. COORDINATE FINISH WITH ARCHITECT/OWNER.
- 11 PROVIDE ALL MATERIALS AND TAKEOFFS TO MAKE COMPLETE CONNECTION TO EXISTING DUCTWORK AT POINT INDICATED. FIELD VERIFY EXISTING CONDITIONS.
- 12 EXISTING HEAT PUMP TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
- 13 REPLACE EXISTING DIFFUSER WITH NEW FIRE RATED DIFFUSER. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- 14 NOT USED
- 15 NOT USED
- 16 EXISTING RETURN GRILLE TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
- 17 EXISTING WALL GRILLE TO BE REPLACED. REPLACEMENT GRILLE TO BE FIRE RATED AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. GRILLE TO BE SIZED TO MATCH EXISTING. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- 18 EXISTING CABINET HEATER TO REMAIN AND SHALL REMAIN FUNCTIONAL. REPLACE EXISTING COVER. VERIFY SIZE AND LOCATION OF EXISTING HEATER PRIOR TO WORK. COORDINATE FINISH WITH ARCHITECT.



EXPIRATION DATE: 12/31/2027

Lawrence S. Ayer

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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506

Prepared for: Springfield Metropolitan Housing Authority

Project Number
2024-112

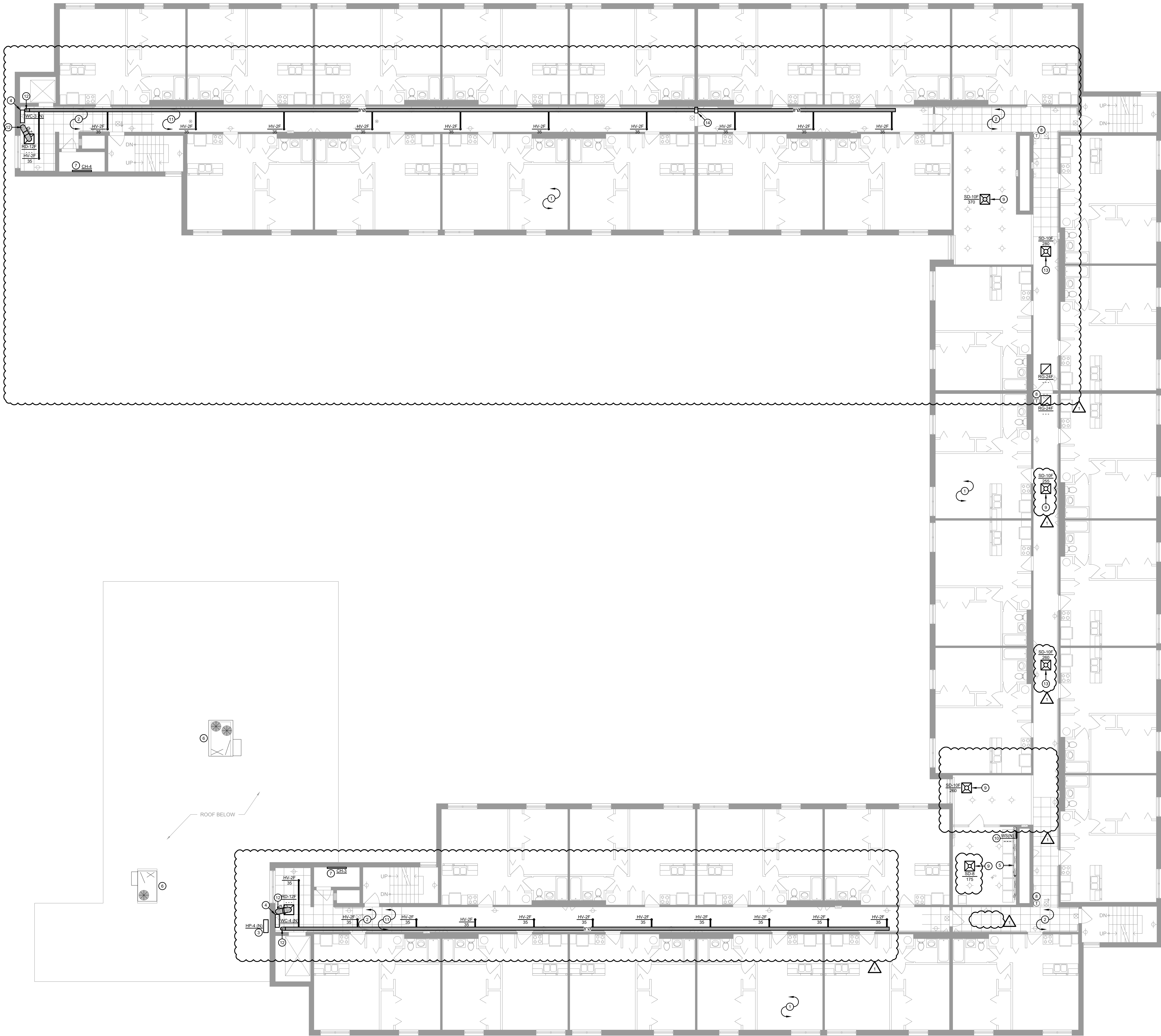
Date
January 12, 2026

Date	Issue
12.19.25	Progress
01.12.26	Progress
02.02.26	90% Review Set
02.12.26	Bid/Construction Set
03.03.26	Addendum #1

Sheet Title
FIRST FLOOR MECHANICAL PLAN

Sheet Number

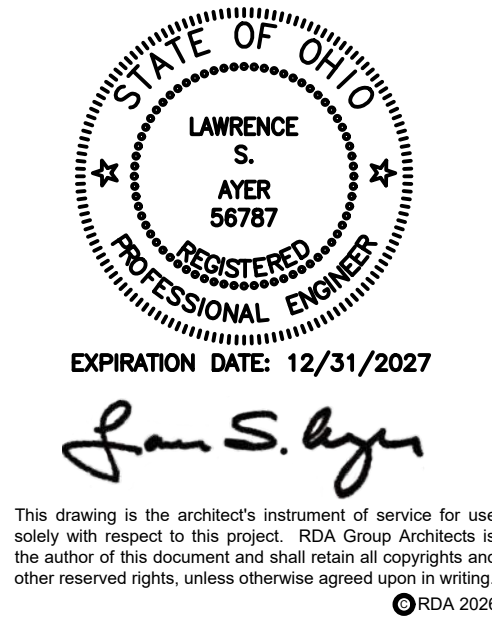
M1.21



1 SECOND FLOOR MECHANICAL PLAN
M1.31 SCALE: 1/8" = 1'-0"

GENERAL NOTES	
A.	ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.
B.	CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.
C.	CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
D.	ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES	
1	NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
2	REPLACE EXISTING DIFFUSERS, GRILLS, AND REGISTERS WITH FIRE RATED EQUIVALENT. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
3	BASE BID: PROVIDE AND INSTALL REPLACEMENT HEAT PUMP AND LINE SETS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
4	ALTERNATE #10: REFER TO NOTE #11, IN LIEU OF BASE BID SCOPE.
5	BASE BID: PROVIDE AND INSTALL REPLACEMENT WALL CASSETTE AND LINE SETS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
6	ALTERNATE 10: NO ADDITIONAL WORK.
7	EXISTING DRYER DUCTS TO REMAIN. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
8	EXISTING RTU TO REMAIN.
9	INSTALL COVE HEATER AND ALL NECESSARY ACCESSORIES AND COMPONENTS FOR A COMPLETE INSTALL. FIELD VERIFY FINAL LOCATION.
10	EXISTING THERMOSTAT TO REMAIN. PROVIDE AND INSTALL NEW VANDAL RESISTANT THERMOSTAT COVER. COORDINATE FINISH WITH ARCHITECT/OWNER.
11	REPLACE EXISTING DIFFUSER WITH NEW FIRE RATED DIFFUSER. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. CONNECT TO EXISTING DUCT ABOVE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
12	EXISTING WALL GRILL TO BE REPLACED. REPLACEMENT GRILL TO BE FIRE RATED AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. GRILL TO BE SIZED TO MATCH EXISTING. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
13	BASE BID: REFER TO NOTE #3 AND NOTE #4.
14	ALTERNATE #10: IN LIEU OF BASE BID SCOPE, PROVIDE AND INSTALL DUCTWORK AND OUTLETS FOR HIGH VELOCITY SYSTEM AS SHOWN. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
15	EXTEND DUCT UP TO 3RD FLOOR ABOVE. TRANSITION TO #8 IN SHAFT. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK. REFER TO M1.41 FOR CONTINUATION.
16	PROVIDE AND INSTALL NEW FIRE RATED DIFFUSER. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. CONNECT TO EXISTING DUCT ABOVE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
17	PROVIDE AND INSTALL FIRE DAMPER WHERE DUCT PENETRATES FIRE RATED WALL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS. FIELD VERIFY EXISTING CONDITIONS.

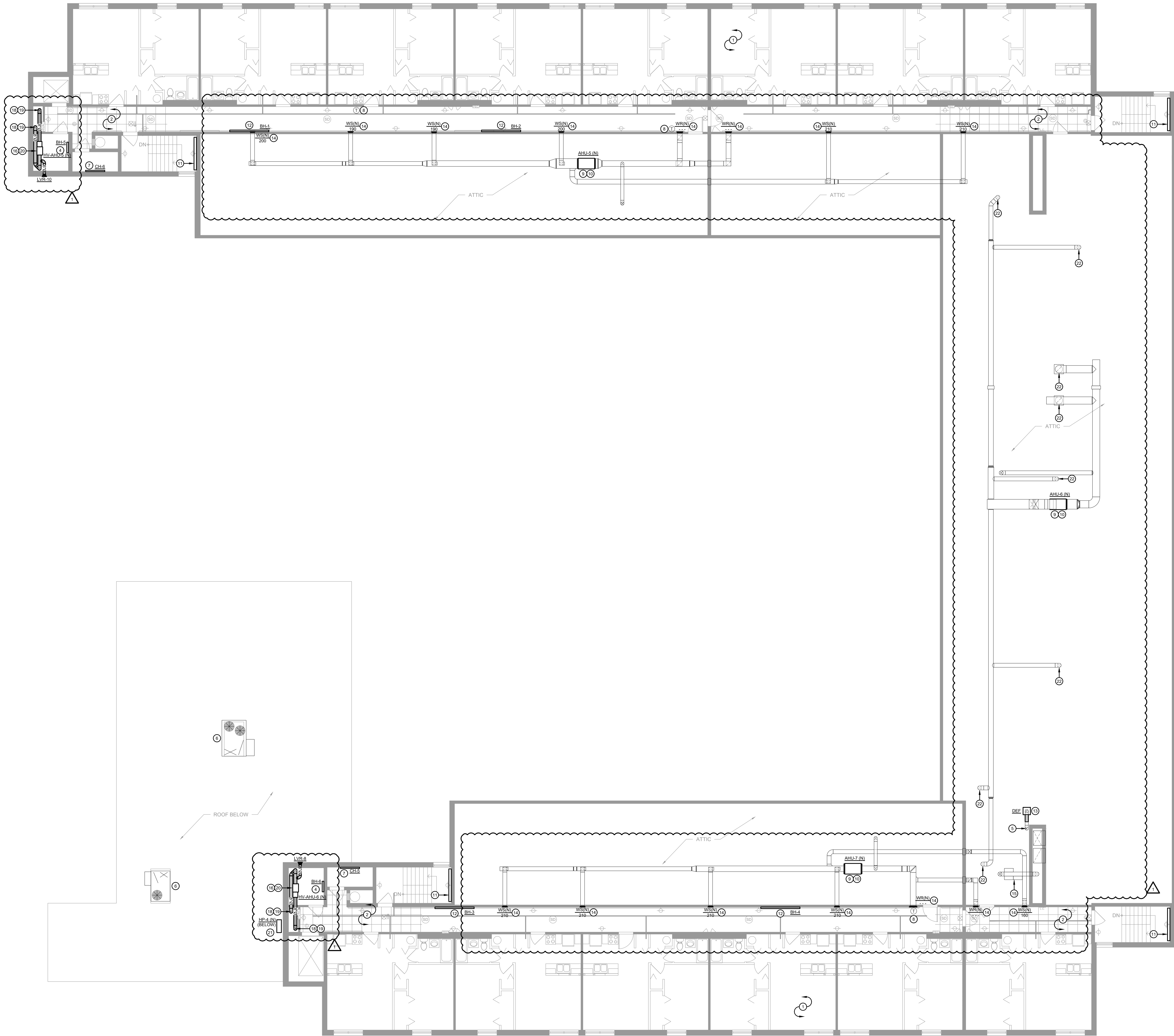


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Sheet Title	SECOND FLOOR MECHANICAL PLAN
Sheet Number	M1.31



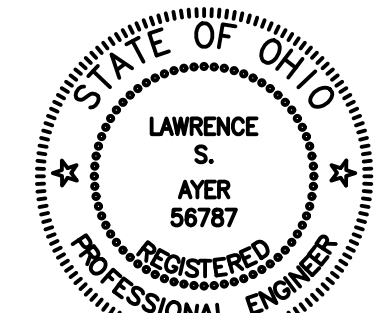
1 THIRD FLOOR MECHANICAL PLAN
M1.41 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.
- B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.
- C. CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- D. ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES

- 1 NO MECHANICAL WORK IN UNITS. TYPICAL OF ALL UNITS.
- 2 REPLACE EXISTING DIFFUSERS, GRILLS, AND REGISTERS WITH FIRE RATED EQUIVALENT. PROVIDE ALL MATERIALS AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING SYSTEM AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- 3 PROVIDE AND INSTALL REPLACEMENT HEAT PUMP AND LINE SETS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
- 4 PROVIDE AND INSTALL NEW BASEBOARD HEATER. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 5 EXISTING DRYER DUCTS TO REMAIN. FIELD VERIFY EXISTING SIZE AND ROUTING PRIOR TO WORK.
- 6 EXISTING RTU (BELOW) TO REMAIN.
- 7 INSTALL COVE HEATER AND ALL NECESSARY ACCESSORIES AND COMPONENTS FOR A COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
- 8 EXISTING THERMOSTAT TO REMAIN. PROVIDE AND INSTALL NEW VANDAL RESISTANT THERMOSTAT COVER. COORDINATE FINISH WITH ARCHITECT/OWNER.
- 9 BASE BID: EXISTING AIR HANDLING UNIT TO REMAIN. NO WORK REQUIRED.
- 10 ALTERNATE #11: MECHANICAL CONTRACTOR TO INSTALL REPLACEMENT FAN COIL UNIT. FAN COIL UNIT TO USE R-450B REFRIGERANT. FAN COIL UNIT TO MATCH EXISTING FAN COIL UNIT UNLESS NOTED OTHERWISE. PROVIDE ALL CONNECTIONS TO EXISTING DUCTWORK. INSTALLATION SHALL INCLUDE ALL NECESSARY MATERIALS AND ACCESSORIES FOR A COMPLETE WORKING SYSTEM. FIELD VERIFY EXISTING CONDITIONS.
- 11 ALTERNATE #11: INSTALL NEW REFRIGERANT LINE SETS TO NEW FAN COIL UNIT. INSTALL REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. FIELD VERIFY EXISTING CONDITIONS AND LENGTHS PRIOR TO INSTALLING LINE SETS.
- 12 EXISTING CABINET HEATER TO REMAIN AND SHALL REMAIN FUNCTIONAL. REPLACE EXISTING COVER. VERIFY SIZE AND LOCATION OF EXISTING HEATER PRIOR TO WORK. COORDINATE FINISH WITH ARCHITECT.
- 13 INSTALL REPLACEMENT BASEBOARD HEATER. HEATER TO BE INSTALLED AT SAME LOCATION AND HEIGHT TO MATCH EXISTING. FIELD VERIFY EXISTING CONDITIONS.
- 14 INSTALL NEW DRYER EXHAUST VENTILATION FAN PER MANUFACTURER'S INSTRUCTIONS. CONNECT TO EXISTING DUCTWORK. PROVIDE ALL MATERIALS AND ACCESSORIES TO MAKE COMPLETE WORKING SYSTEM.
- 15 EXISTING WALL GRILL TO BE REPLACED. REPLACEMENT GRILL TO BE FIRE RATED AND TO MAINTAIN FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. GRILL TO BE SIZED TO MATCH EXISTING. FIELD VERIFY EXISTING LOCATIONS, SIZES, AND QUANTITIES.
- 16 EXISTING DUCT HEATER SYSTEM PROVIDES MAKE-UP AIR FOR LAUNDRY ROOMS. INTERLOCK TO NEW DRYER EXHAUST FAN SYSTEM. PROVIDE ALL WIRING AND PROGRAMMING TO MAKE COMPLETE. FIELD VERIFY EXISTING CONDITIONS.
- 17 BASE BID: NO WORK REQUIRED.
- 18 ALTERNATE 10: PROVIDE AND INSTALL NEW HIGH VELOCITY SPLIT SYSTEM INCLUDING BLOWER, COIL, AND DUCT HEATER TO SERVE 2ND FLOOR. INSTALL IN HORIZONTAL CONFIGURATION AND PROVIDE ALL REQUIRED SUPPORTS. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE WORKING SYSTEM. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO M5.01 FOR SPECIFICATIONS. FIELD VERIFY EXISTING CONDITIONS.
- 19 BASE BID: NO WORK REQUIRED.
- 20 ALTERNATE 10: PROVIDE NEW LOUVER FOR OUTDOOR AIR INTAKE. FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALL. SPACE AROUND LOUVER TO BE INFILLED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 21 BASE BID: NO WORK REQUIRED.
- 22 ALTERNATE 10: EXTEND DUCT DOWN TO SECOND FLOOR CEILING SPACE. REFER TO M1.31 FOR CONTINUATION.
- 23 BASE BID: NO WORK REQUIRED.
- 24 ALTERNATE 10: PROVIDE 1-HOUR FIRE DAMPER WHERE DUCT PENETRATES RATED FLOOR ASSEMBLY.
- 25 BASE BID: NO WORK REQUIRED.
- 26 ALTERNATE 10: PROVIDE FULL SIZE DRAIN PAN UNDER AIR HANDLING UNIT AND EXTEND (1) 3/4" DRAIN LINE AND (1) 3/4" CONDENSATE LINE TO DISCHARGE AT MOP SINK IN ADJACENT JANITOR'S ROOM.
- 27 HEAT PUMP BELOW. REFER TO M1.31 FOR SCOPE OF WORK.
- 28 EXISTING DUCTWORK TO CONNECT TO DIFFUSER ON FLOOR BELOW. REFER TO M1.31 FOR CONTINUATION. PROVIDE ALL MODIFICATIONS AND TRANSITIONS NECESSARY. FIELD VERIFY EXISTING CONDITIONS.



EXPIRATION DATE: 12/31/2027

Lawrence S. Ayer

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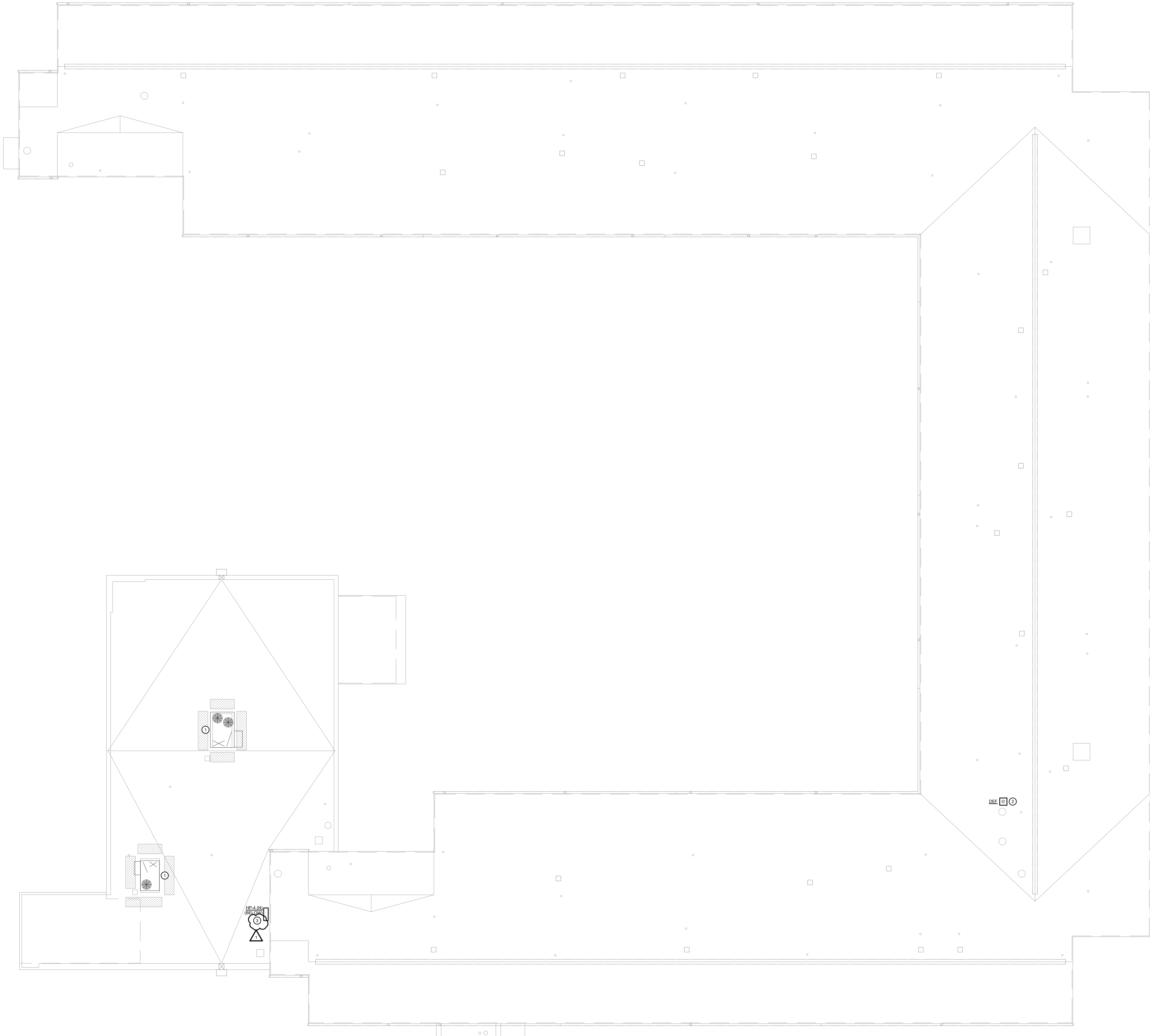
03.03.26 Addendum #1

Sheet Title

THIRD FLOOR MECHANICAL PLAN

Sheet Number

M1.41



GENERAL NOTES

A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.

B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

C. CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT THAT IS ABANDONED OR NOT IN SERVICE. PRIOR TO WORK, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT NOTED AS ABANDONED IS NOT OPERATIONAL OR SERVES EXISTING BUILDING FUNCTIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

D. ALL EQUIPMENT NOTED TO BE REPLACED SHALL BE INSPECTED PRIOR TO WORK. CONTRACTOR SHALL INSPECT EXISTING SYSTEM AND VERIFY EXISTING COMPONENTS ARE IN GOOD WORKING ORDER AND CAN SUPPORT ALL REPLACEMENT EQUIPMENT. CONTRACTOR SHALL MAKE ANY MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT TO COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR REPLACEMENT EQUIPMENT. REPLACEMENT EQUIPMENT TO SHALL BE SIZED TO MATCH EXISTING EQUIPMENT AND SHALL COMPLY WITH ALL CURRENT CODES AND REGULATIONS.

PLAN NOTES

① EXISTING RTU TO REMAIN.

② INSTALL ROOFTOP DRYER EXHAUST FAN (DEF) FOR DRYER EXHAUST- PROVIDE WITH MANUFACTURER'S MOUNTING PLATE AND INLET COLLAR. CONNECT TO EXISTING DRYER EXHAUST DUCTWORK. PROVIDE ALL MATERIALS, ACCESSORIES, SUPPORTS, FLASHING, AND DUCTWORK MODIFICATIONS NECESSARY FOR REPLACEMENT EQUIPMENT. FOR ANY MODIFICATIONS AT ROOF, COORDINATE WITH ARCHITECT/ROOFING CONTRACTOR PRIOR TO ANY WORK. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FIELD VERIFY FINAL LOCATION AND ROUTING OF EXISTING DRYER EXHAUST DUCTWORK.

③ HEAT PUMP BELOW. REFER TO M1.31 FOR SCOPE OF WORK.



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Sheet Title
ROOF MECHANICAL PLAN

Sheet Number

M1.51

MARK	MANUFACTURER	SD(N)	SD-4S	SD-2F	SD-4	SD-8F	SD-10	SD-10F	SDS	RD-8	RD-12	RD-12F	RD-24F	EG(N)	WS(N)	WR(N)
PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL NUMBER	SPD	SPD-FR	UPC-S6FR-1	UNICO	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
TYPE	FLAT PLAQUE	FLAT PLAQUE	HIGH VELOCITY	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE
DIRECTION	4-WAY	4-WAY	1-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY	4-WAY
MOUNTING	LAY-INDRYWALL	CEILINGDRYWALL	CEILINGDRYWALL	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN
G/R/D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
CFM	MATCH EXISTING	AS NOTED	MATCH EXISTING	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED	AS NOTED
MECH SIZE	MATCH EXISTING	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"	4"X8"
PANEL SIZE	MATCH EXISTING	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"
MATERIAL	STEEL	STEEL	POLYPROPYLENE	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
DAMPER	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SOUND (NC)	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
REMARKS / NOTES	1,2,4	1,2,4	1,2,5	1,2	1,2,5	1,2	1,2,5	2,3	1,2	1,2	1,2,5	1,2,6	2,4	2,4,5	2,4,5	2,4,5

1. DIFFUSERS SHALL BE 4-WAY FLOW UNLESS OTHERWISE NOTED.
2. PROVIDE WITH DRYWALL WALL MOUNTING FRAME WHERE REQUIRED.
3. PROVIDE WITH SUB PLENUM.
4. DIFFUSERS SHALL BE 4-WAY FLOW UNLESS OTHERWISE NOTED.
5. DIFFUSERS SHALL BE 4-WAY FLOW UNLESS OTHERWISE NOTED.

MARK	SERVES	MANUFACTURER	EXTERIOR MODEL NUMBER	INTERIOR MODEL NUMBER	HEATING CAP (BTU)	COOLING CAP (BTU)	CFM (HIGH)	ELECTRICAL OUTDOOR	ELECTRICAL INDOOR	SEER2	NOTES	ACCESSORIES
HP-1WC-1	S. ELEVATOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-2WC-2	N. ELEVATOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-3WC-3	N. HALLWAY	CARRIER	37MRHAQ24AA3	45MRHAQ24XC3	22,000	22,000	547	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-4WC-4	S. HALLWAY	CARRIER	37MRHAQ24AA3	45MRHAQ24XC3	22,000	22,000	547	208	1	60	20A	POWERED FROM OUTDOOR UNIT

1. EXISTING UNIT TO REMAIN. NO WORK REQUIRED.
2. OUTDOOR UNIT SHALL BE INSTALLED ON 4" CONCRETE PAD ON GRADE. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
4. OUT DOOR UNIT SHALL BE INSTALLED ON EQUIPMENT PAD ON ROOF. INSTALL PER MANUFACTURER'S REQUIREMENTS.

MARK	SERVES	MANUFACTURER	EXTERIOR MODEL NUMBER	INTERIOR MODEL NUMBER	HEATING CAP (BTU)	COOLING CAP (BTU)	CFM (HIGH)	ELECTRICAL OUTDOOR	ELECTRICAL INDOOR	SEER2	NOTES	ACCESSORIES
HP-1WC-1	S. ELEVATOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-2WC-2	N. ELEVATOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-3WC-3	N. HALLWAY	CARRIER	37MRHAQ24AA3	45MRHAQ24XC3	22,000	22,000	547	208	1	60	20A	POWERED FROM OUTDOOR UNIT
HP-4WC-4	S. HALLWAY	CARRIER	37MRHAQ24AA3	45MRHAQ24XC3	22,000	22,000	547	208	1	60	20A	POWERED FROM OUTDOOR UNIT

1. EXISTING UNIT TO REMAIN. NO WORK REQUIRED.
2. OUTDOOR UNIT SHALL BE INSTALLED ON 4" CONCRETE PAD ON GRADE. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
4. OUT DOOR UNIT SHALL BE INSTALLED ON EQUIPMENT PAD ON ROOF. INSTALL PER MANUFACTURER'S REQUIREMENTS.

MARK	SERVICE	WIDTH	HEIGHT	WALL THICKNESS	MATERIAL	DAMPER	MANUFACTURER	MODEL	NOTES
LVR-8	OUTDOOR AIR	8"	8"	4"	ALUMINUM	---	GREENHEK	ESD-435	1-5
LVR-10	OUTDOOR AIR	10"	10"	4"	ALUMINUM	---	GREENHEK	ESD-435	1-5

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
2. INTERNAL BIRD SCREEN.
3. COLOR TO BE SELECTED BY ARCHITECT.
4. BASIS OF DESIGN. COORDINATE EXACT SIZE AND WALL THICKNESS WITH EXISTING CONDITIONS PRIOR TO ORDERING.
5. REFER TO ALTERNATES FOR ADDITIONAL INFORMATION.

MARK	LOCATION	MANUFACTURER	MODEL NUMBER	FAN DATA	MOTOR DATA	WEIGHT	NOTES
DEF	ROOF - DRYER EXHAUST	TIERNLUND	RT1500	1.550	120	1	12 HP

1. FIELD VERIFY EXISTING DRYER EXHAUST DUCT ROUTINGS AND SIZES PRIOR TO ORDER OR PURCHASE.
2. BASIS OF DESIGN.
3. PROVIDE WITH D1500 DISCHARGE HOOD.
4. PROVIDE ALL ACCESSORIES AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION.
5. COORDINATE FINAL INSTALLATION WITH ARCHITECT/ROOFING CONTRACTOR.

EQUIPMENT MARK	HV-AHL-1	HV-HP-1	HV-AHL-2	HV-HP-2	HV-AHL-3	HV-HP-3	HV-AHL-4	HV-HP-4	HV-AHL-5	HV-HP-5	HV-AHL-6	HV-HP-6
MANUFACTURER	UNICO	CARRIER	UNICO	CARRIER	UNICO	CARRIER	UNICO	CARRIER	UNICO	CARRIER	UNICO	CARRIER
MODEL #	M1218BL2-EC2	27SCA518A003	M1218BL2-EC2	27SCA518A003	M1218BL2-EC2	27SCA518A003	M1218BL2-EC2	27SCA518A003	M1218BL2-EC2	27SCA518A003	M1218BL2-EC2	27SCA518A003
COOLING COIL MODEL#	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001	M1218CL2-E001
ENERGY EFFICIENCY RATIO (SEER2)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
INDOOR FAN H.P.	1	1	1	1	1	1	1	1	1	1	1	1
DESIGN CFM	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)	300 (VERIFY)
EXTERNAL STATIC PRESSURE IN H2O	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00	0 - 1.00
CONDENSER AMBIENT CONDITIONS	TEMPERATURE °F	95°F	TEMPERATURE °F	95°F	TEMPERATURE °F	95°F	TEMPERATURE °F	95°F	TEMPERATURE °F	95°F	TEMPERATURE °F	95°F
COOLING DATA	ENTERING AIR TEMP. db / wb °F	85/67	85/67	85/67	85/67	85/67	85/67	85/67	85/67	85/67	85/67	85/67
HEATING DATA	TOTAL COOLING CAPACITY IN M.B.H.	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91	17.91
SENSIBLE COOLING CAPACITY IN M.B.H.	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71
REFRIGERANT TYPE	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
HEATING DATA	GAS INPUT IN M.B.H. HL											
HEATING EFFICIENCY (AFUE %)												
ELECTRIC RESISTANCE IN K.W. @ VOLT	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V	5KW @ 240V
HEAT PUMP REVERSE CYCLE IN M.B.H.												
STAGES	1	1	1	1	1	1	1	1	1	1	1	1
HEATER MODEL #	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C	WON0602-C
ELECTRICAL DATA	VOLTS / PHASE / HERTZ	120/1/60	208/1/60	120/1/60	208/1/60	120/1/60	208/1/60	120/1/60	208/1/60	120/1/60	208/1/60	208/1/60
MINIMUM CIRCUIT AMPS	7.0	10.9	7.0	10.9	7.0	10.9	7.0	10.9	7.0	10.9	7.0	10.9
MAX OVERCURRENT PROTECTION IN AMPS	15	15	15	15	15	15	15	15	15	15	15	15
PHYSICAL DATA	UNIT WEIGHT IN POUNDS	32	149	32	149	32	149	32	149	32	149	32
ACCESSORIES	A THRU N	---	A THRU N	---	A THRU N	---	A THRU N	---	A THRU N	---	A THRU N	---

1. TRANSFORMER.
2. THERMAL EXPANSION VALVE. MODEL #TXV-11-454.
3. BOTTOM RETURN FILTER RACK.
4. INSULATED PLENUM COOLING COIL.
5. REFRIGERANT FILTER DRIER.
6. COMPRESSOR SHORT CYCLE CONTROL.
7. FURNACE MOUNTING PAD.
8. RETURN AIR PLENUM.
9. REFRIGERANT LINE SET.
10. RETURN AIR PLENUM.
11. CONNECT TO EXISTING THERMOSTAT/CONTROLS.
12. PROVIDE REFRIGERANT LONG LINE KIT IF REQUIRED.
13. PROVIDE ALL ADAPTERS NECESSARY TO CONNECT TO EXISTING DUCTWORK.
14. PROVIDE WITH REFRIGERANT LEAK DETECTION SYSTEM.
15. PROVIDE WITH BI-POLAR IONIZATION SYSTEM.

1. CONDENSING UNIT SHALL BE INSTALLED ON CONCRETE PAD.
2. CONNECT TO EXISTING CONDENSATE DRAIN SYSTEM.
3. INSTALL SYSTEMS PER MANUFACTURER'S INSTRUCTIONS.
4. FIELD VERIFY EXISTING EQUIPMENT SPECIFICATIONS. REPLACEMENT UNITS TO MATCH EXISTING UNLESS NOTED OTHERWISE.
5. EQUIPMENT LISTED IS BASIS OF DESIGN.

MECHANICAL PLAN SYMBOL LEGEND	MECHANICAL PLAN SYMBOL LEGEND
DUCT LEGEND (NOT ALL SYMBOLS MAY BE USED)	DUCT LEGEND (NOT ALL SYMBOLS MAY BE USED)
SIZE	NEW METAL DUCTWORK.
SIZE	EXISTING METAL DUCTWORK.
SIZE	METAL DUCTWORK TO BE DEMOLISHED.
SIZE	NEW FLEX DUCTWORK. SIZE SHALL BE EQUAL TO ASSOCIATED DEVICE AND DUCTWORK UNLESS OTHERWISE NOTED.
SIZE	EXISTING FLEX DUCTWORK. SIZE SHALL BE EQUAL TO ASSOCIATED DEVICE AND DUCTWORK UNLESS OTHERWISE NOTED.
SIZE	FLEX DUCTWORK TO BE DEMOLISHED.
DEVICE LEGEND (NOT ALL SYMBOLS MAY BE USED)	DEVICE LEGEND (NOT ALL SYMBOLS MAY BE USED)
NEW OR RELOCATED DIFFUSER. REFER TO SCHEDULE FOR MORE INFORMATION.	NEW OR RELOCATED DIFFUSER. REFER TO SCHEDULE FOR MORE INFORMATION.
LINEAR SLOT DIFFUSER EXISTING TO REMAIN.	LINEAR SLOT DIFFUSER EXISTING TO REMAIN.
NEW VAV BOX. REFER TO SPECIFICATIONS FOR MORE INFORMATION.	NEW VAV BOX. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
VAV BOX EXISTING TO REMAIN.	VAV BOX EXISTING TO REMAIN.
VAV BOX TO BE DEMOLISHED OR RELOCATED.	VAV BOX TO BE DEMOLISHED OR RELOCATED.
SUPPLY AIR DIFFUSER.	SUPPLY AIR DIFFUSER.
DUCTED RETURN AIR DIFFUSER/GRILLE.	DUCTED RETURN AIR DIFFUSER/GRILLE.
RETURN AIR GRILLE TO PLENUM ABOVE.	RETURN AIR GRILLE TO PLENUM ABOVE.
EXHAUST AIR DIFFUSER/GRILLE.	EXHAUST AIR DIFFUSER/GRILLE.
SIDWALL OR DUCTMOUNTED GRILLE.	SIDWALL OR DUCTMOUNTED GRILLE.
MISCELLANEOUS LEGEND (NOT ALL SYMBOLS MAY BE USED)	MISCELLANEOUS LEGEND (NOT ALL SYMBOLS MAY BE USED)
POINT OF CONNECTION TO EXISTING SYSTEM ELEMENTS.	POINT OF CONNECTION TO EXISTING SYSTEM ELEMENTS.
DEVICE IDENTIFIER. RL - RELOCATE, EX-EXISTING BALANCE OR REBALANCE TO CFM SHOWN. SEE AIR DEVICE AND DUCT SMOKE DETECTOR. INTERLOCK TO SHUTOFF SUPPLY FAN UPON DETECTION OF SMOKE. INTERLOCK SIMILARLY WITH ALL OTHER DETECTORS.	DEVICE IDENTIFIER. RL - RELOCATE, EX-EXISTING BALANCE OR REBALANCE TO CFM SHOWN. SEE AIR DEVICE AND DUCT SMOKE DETECTOR. INTERLOCK TO SHUTOFF SUPPLY FAN UPON DETECTION OF SMOKE. INTERLOCK SIMILARLY WITH ALL OTHER DETECTORS.
TEMPERATURE SENSOR. REFER TO SPECIFICATIONS.	TEMPERATURE SENSOR. REFER TO SPECIFICATIONS.
10'-4"	CENTER OF DUCT. ELEVATION 10'-4" AFF.

MAXIMUM DUCT DIMENSIONS	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.
4"-8"	24	24	24	24	24	24	24
9"-12"	24	24	24	24	24	24	24
13"-14"	24	24	24	24	24	24	24
15"-16"	24	24	24	24	24	24	24
17"-18"	24	24	24	24	24	24	24
19"-20"	24	24	24	24	24	24	24
21"-22"	24	24	24	24	24	24	24
23"-24"	24	24	24	24	24	24	24
25"-26"	24	24	24	24	24	24	24
27"-28"	24	24	24	24	24	24	24
29"-30"	18	24	24	24	24	24	24
31"-32"	18	24	24	24	24	24	24
33"-42"	16	24	24	24	24	24	24
43"-46"	16	24	24	24	24	24	24
47"-54"	24	24	24	24	24	24	24
55"-60"	24	24	24	24	24	24	24
61"-72"	24	24	24	24	24	24	24
73"-84"	24	24	24	24	24	24	24
85"-96"	24	24	24	24	24	24	24
97"-108"	18	16	16	16	16	16	16
109"-120"	16	16	16	16	16	16	16

1. THIS TABLE IS BASED ON THE FOLLOWING:
2. COLUMN A DUCT GAUGE REQUIREMENT WITH NO REINFORCEMENT.
3. COLUMN B DUCT GAUGE REQUIREMENT AS INDICATED BELOW.
4. 0.50" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 19" - 120".
5. 1.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 17" - 108" AND 4 FEET SPACING FOR 109" - 120".
6. 2.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 15" - 84" AND 4 FEET SPACING FOR 85" - 108" AND 3 FEET SPACING FOR 109" - 120".
7. 3.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 6" G 4" - 84" AND 4 FEET SPACING FOR 85" - 96" AND 3 FEET SPACING FOR 97" - 120".
8. 4.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 60" AND 4 FEET SPACING FOR 61" - 72" AND 3 FEET SPACING FOR 73" - 108".
9. 6.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 48" AND 4 FEET SPACING FOR 49" - 60" AND 3 FEET SPACING FOR 61" - 108".
10. 10.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 42" AND 4 FEET SPACING FOR 43" - 54" AND 3 FEET SPACING FOR 55" - 72" AND 2 FEET SPACING FOR 73" - 120".

1. THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS.
2. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION, AND/OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT INCLUDE THE PRESENCE OF MOLD AND/OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT/ENGINEER OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
3. CONCURRENTLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN A MOLD AND MILDEW CERTIFIED TESTING AGENCY TO PERFORM AN INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF THE TESTING AGENCY CONFIRMS HAZARDS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MINIMUM OF TWO (2) BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM ALL NECESSARY REMEDIATION WORK, COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS, CODES AND STATUTES.
4. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO AVOID CONDITIONS FAVORABLE TO THE DEVELOPMENT OF MOLD AND MILDEW, ESPECIALLY IN VOIDS WHICH WILL BE CONCEALED AND NOT WELL VENTILATED. IN ALL CASES, INTERIOR SPACES AND INTERIOR FINISHED CONSTRUCTION SHALL BE MAINTAINED IN DRY AND WELL VENTILATED CONDITIONS.
5. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, ENVIRONMENTAL AND OSHA REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW.
6. ALL PENETRATIONS SHALL BE SEALED WATER TIGHT TO PREVENT MOISTURE MIGRATION FROM ENTERING THE BUILDING OR WALL CAVITIES.
7. ALL CONDENSATE DRAIN PANS SHALL BE CLEANED AND KEPT FREE FROM DEBRIS UNTIL AND WHEN THE FACILITY IS TURNED OVER TO THE OWNER OR TENANT. INSURE POSITIVE DRAINAGE AT ALL DRAIN PANS. INSURE THAT ALL "COLD" SURFACES ARE INSULATED OR COVERED WITH A FULLY SEALED AND CONTINUOUS VAPOR BARRIER. "COLD" SURFACES INCLUDE BURET NOT LIMITED TO: DOMESTIC COLD WATER PIPING, CHILLED WATER PIPING, INTERIOR DRAIN LEADERS, OUTDOOR AIR INTAKES, AIR DUCTWORK CARRYING AIR CONDITIONED SUPPLY AIR.

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED IN THE FIELD. 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.
7. FIRE STOPPING SHALL BE PROVIDED AT ALL RATED WALLS.
8. ALL CONDUIT, CABLE, PIPING, AND OTHER MECHANICAL/ELECTRICAL SYSTEMS NOT ASSOCIATED WITH SPECIFIC CRITICAL EQUIPMENT SPACES (E.G. SWITCH ROOM, TELECOM ROOM, CONTROL



GPS Air, Inc. NPBI™ IAQP Calculator

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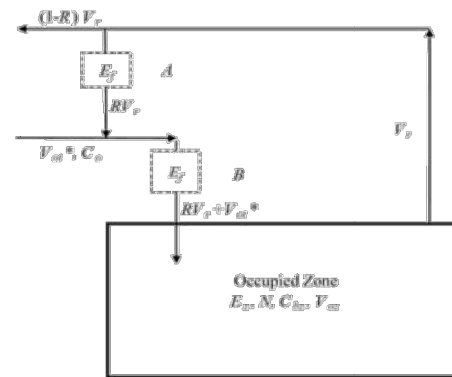
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VERSION v2.52 running ASHRAE 62.1-2019 and prior

Project Location: Cincinnati, OH

#	Zone Tag	Facility Type	Zone Use	Zone Floor Area (sq ft)	Zone Height (ft)	Zone Max Occupancy	Table 6.1 OA per Occupant	Table 6.1 cfm/ft ²	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness	Outdoor Air (VRP) to Zone (CFM) with Ez correction (Vbz/Ez)
1	Space 1	Residential	Common corridors	783	8	5	0.0	0.1	0	47	0.8	59
2	Space 2	None	None	1,000	25	400	0.0	0.0	0	0	0.8	0
3	Space 3	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
4	Space 4	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
5	Space 5	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
6	Space 6	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
7	Space 7	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
8	Space 8	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
9	Space 9	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
10	Space 10	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
AHU Totals (based on Zone Count)				783		5						59

Zone Count	1
Desired Outside Air (Vo) (CFM)	50
Supply Airflow (Vs) (CFM)	300
Return Air (Vr) (CFM)	350
Recirc. Flow Factor (R)	0.88
Ventilation Effectiveness (Ez)	0.80
Level of Physical Activity	Standing (desk work)
Filter Location	B
HVAC & O.A. Flow	Constant



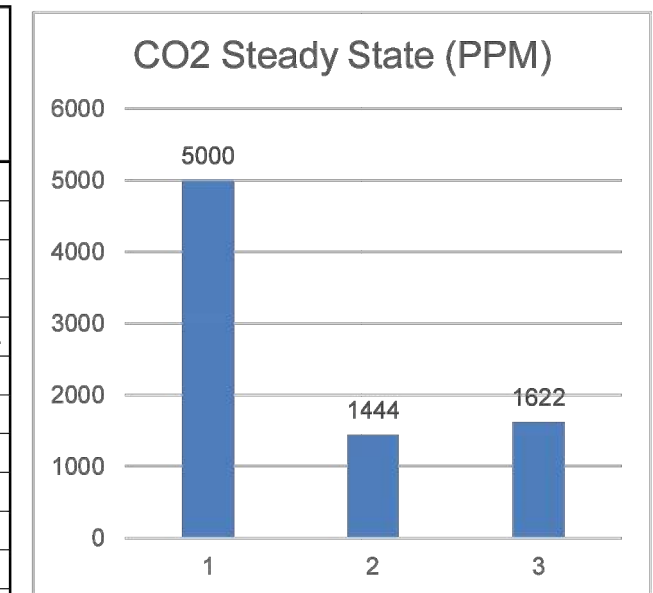
Outside Air Per VRP (CFM)	59
Outside Air Per IAQ (CFM)	50
Outside Air Savings (CFM)	9

Electricity Rate (\$/kwh)	\$0.12
Cooling Savings IAQP	\$5
Heating Savings IAQP	\$14
Total Electricity Savings:	\$18

VRP OA CFM per person	11.7
IAQ OA CFM per person	10.0
Air Changes Per Hour	0.4

Equipment Reduction (tons):	0.1
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Design Compounds (DC)	Design Limit (µg/m ³)	Steady State (µg/m ³) VRP* (Prescribed OA) Ionization Off	Steady State (µg/m ³) IAQP (Reduced OA) Ionization On	Filtration Effectiveness Ef	IAQP Steady State Below Design Limit?	Contaminant Generation Rate µg/person/min	Cognizant Authority**
Acetaldehyde	140	8.3	2.0	50%	Yes	96.2	Cal EPA CREL
Acetone	1200	31.2	5.4	50%	Yes	148.1	AgBB LCI
Benzene	3	1.6	0.2	50%	Yes	0.8	Cal EPA CREL
Dichloromethane	400	2.1	2.1	N/A	Yes	4.6	Cal EPA CREL
Formaldehyde	33	8.4	9.3	N/A	Yes	86.0	Cal EPA 8-hour CREL
Naphthalene	9	0.1	0.1	N/A	Yes	1.5	Cal EPA CREL
Phenol	70	1.5	1.8	N/A	Yes	24.6	AgBB LCI
Tetrachloroethylene	35	2.5	0.3	50%	Yes	0.5	Cal EPA CREL
Toluene	300	3.4	0.6	50%	Yes	15.1	Cal EPA CREL
Trichloroethane	1000	0.0	0.0	50%	Yes	0.5	Cal EPA CREL
Xylene, total	500	2.8	0.5	50%	Yes	12.3	AgBB LCI
PM2.5	12	8.0	8.0	N/A	Yes	0.0	US EPA NAAQS
Carbon Monoxide	10310	375.0	375.0	N/A	Yes	0.0	US EPA NAAQS
Ozone	137	68.0	68.0	N/A	Yes	0.0	US EPA NAAQS
Ammonia	200	1.2	0.1	50%	Yes	0.0	Cal EPA CREL



1 = NIOSH CO2 Limit
2 = CO2 Level at VRP O.A.
3 = CO2 Level at IAQ Procedure O.A.

DC mixtures acceptable under IAQP?	Yes
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Steady State DCs acceptable under IAQP?	Yes
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*OA = Outside Air
**Carbon dioxide is for reference only & demand control ventilation setpoints
***OSHA, NIOSH & WHO most conservative values used

All yellow shaded boxes require user input or review

INDOOR AIR QUALITY CALCULATIONS FOR CORRIDOR 253

REFER TO ALTERNATE #10

M6.01 SCALE: NONE



GPS Air, Inc. NPBI™ IAQP Calculator

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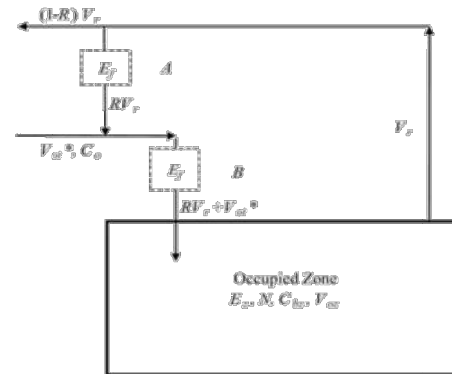
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VERSION v2.52 running ASHRAE 62.1-2019 and prior

Project Location: Cincinnati, OH

#	Zone Tag	Facility Type	Zone Use	Zone Floor Area (sq ft)	Zone Height (ft)	Zone Max Occupancy	Table 6.1 OA per Occupant	Table 6.1 cfm/ft ²	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness	Outdoor Air (VRP) to Zone (CFM) with Ez correction (Vbz/Ez)
1	Space 1	Residential	Common corridors	1,897	8	4	0.0	0.1	0	114	0.8	142
2	Space 2	None	None	1,000	25	400	0.0	0.0	0	0	0.8	0
3	Space 3	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
4	Space 4	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
5	Space 5	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
6	Space 6	None	None	1,000	8	31	0.0	0.0	0	0	0.8	0
7	Space 7	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
8	Space 8	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
9	Space 9	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
10	Space 10	None	None	1,000	8	30	0.0	0.0	0	0	0.8	0
AHU Totals (based on Zone Count)				1,897		4						142

Zone Count	1
Desired Outside Air (Vo) (CFM)	125
Supply Airflow (Vs) (CFM)	400
Return Air (Vr) (CFM)	275
Recirc. Flow Factor (R)	0.69
Ventilation Effectiveness (Ez)	0.80
Level of Physical Activity	Standing (desk work)
Filter Location	B
HVAC & O.A. Flow	Constant



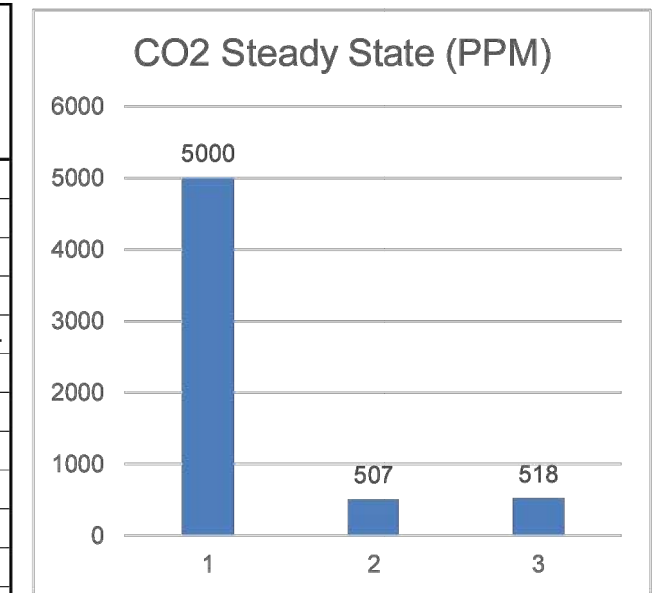
Outside Air Per VRP (CFM)	142
Outside Air Per IAQ (CFM)	125
Outside Air Savings (CFM)	17

Electricity Rate (\$/kwh)	\$0.12
Cooling Savings IAQP	\$10
Heating Savings IAQP	\$27
Total Electricity Savings:	\$37

VRP OA CFM per person	142.3
IAQ OA CFM per person	125.0
Air Changes Per Hour	0.3

Equipment Reduction (tons):	0.1
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Design Compounds (DC)	Design Limit (µg/m ³)	Steady State (µg/m ³) VRP* (Prescribed OA) Ionization Off	Steady State (µg/m ³) IAQP (Reduced OA) Ionization On	Filtration Effectiveness Ef	IAQP Steady State Below Design Limit?	Contaminant Generation Rate µg/person/min	Cognizant Authority**
Acetaldehyde	140	2.8	1.0	50%	Yes	96.2	Cal EPA CREL
Acetone	1200	22.7	6.7	50%	Yes	148.1	AgBB LCI
Benzene	3	1.5	0.4	50%	Yes	0.8	Cal EPA CREL
Dichloromethane	400	1.8	1.8	N/A	Yes	4.6	Cal EPA CREL
Formaldehyde	33	3.4	3.5	N/A	Yes	86.0	Cal EPA 8-hour CREL
Naphthalene	9	0.0	0.0	N/A	Yes	1.5	Cal EPA CREL
Phenol	70	0.1	0.1	N/A	Yes	24.6	AgBB LCI
Tetrachloroethylene	35	2.5	0.7	50%	Yes	0.5	Cal EPA CREL
Toluene	300	2.6	0.8	50%	Yes	15.1	Cal EPA CREL
Trichloroethane	1000	0.0	0.0	50%	Yes	0.5	Cal EPA CREL
Xylene, total	500	2.1	0.6	50%	Yes	12.3	AgBB LCI
PM2.5	12	8.0	8.0	N/A	Yes	0.0	US EPA NAAQS
Carbon Monoxide	10310	375.0	375.0	N/A	Yes	0.0	US EPA NAAQS
Ozone	137	68.0	68.0	N/A	Yes	0.0	US EPA NAAQS
Ammonia	200	1.2	0.3	50%	Yes	0.0	Cal EPA CREL



1 = NIOSH CO2 Limit
2 = CO2 Level at VRP O.A.
3 = CO2 Level at IAQ Procedure O.A.

DC mixtures acceptable under IAQP?	Yes
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Steady State DCs acceptable under IAQP?	Yes
---	-----

*OA = Outside Air
**Carbon dioxide is for reference only & demand control ventilation setpoints
***OSHA, NIOSH & WHO most conservative values used

All yellow shaded boxes require user input or review

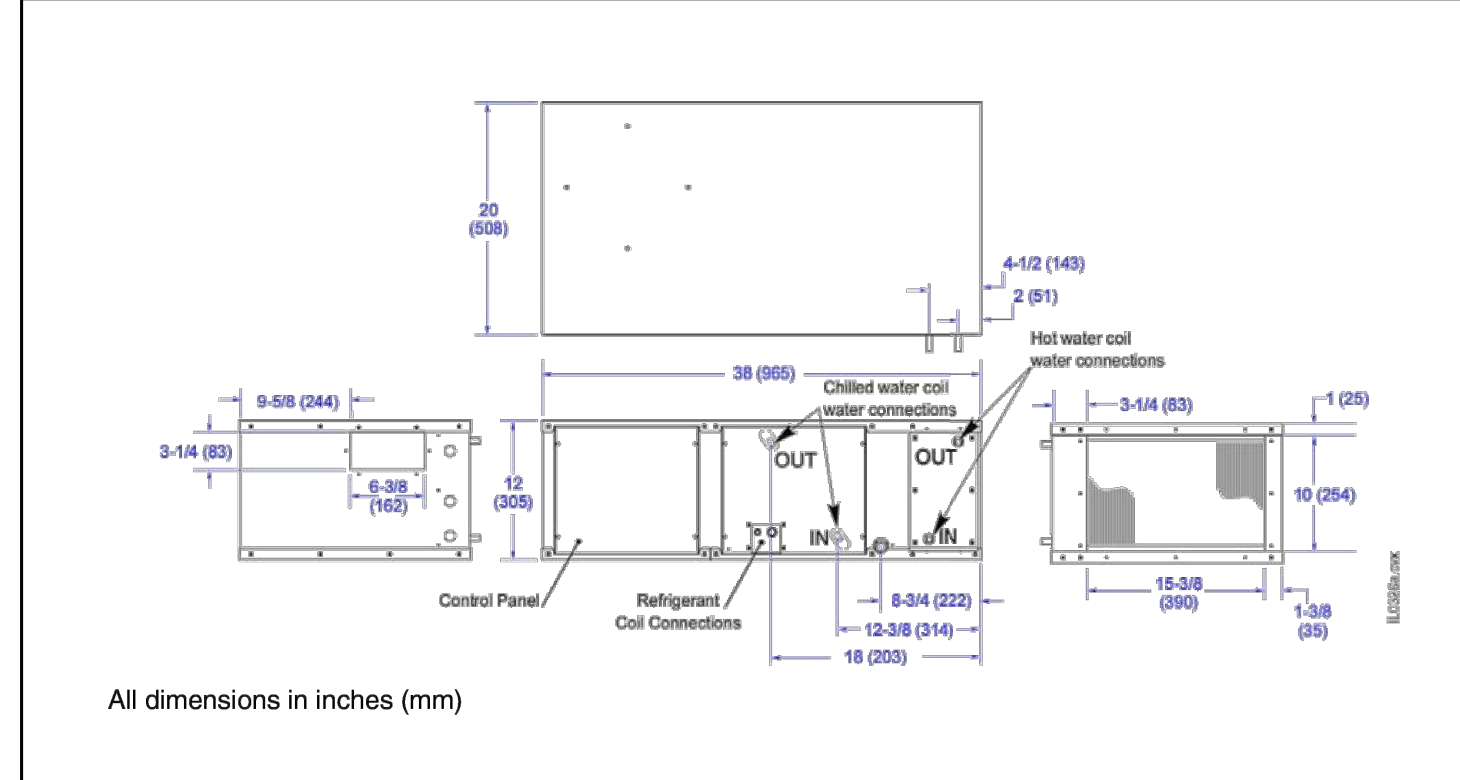
INDOOR AIR QUALITY CALCULATIONS FOR CORRIDORS 259, 262, & 263

REFER TO ALTERNATE #10

M6.01 SCALE: NONE

M1218B

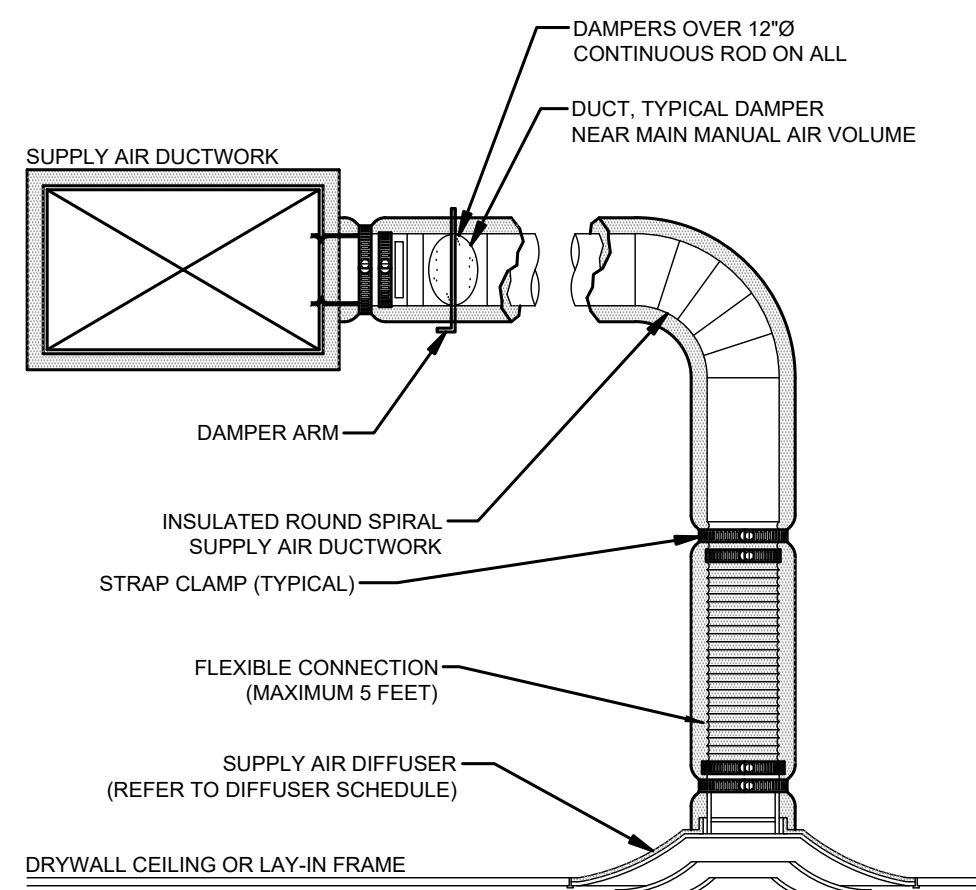
BLOWER MODULE DIMENSIONS



All dimensions in inches (mm)
* Contact Unico for dimensions of assembled modules.

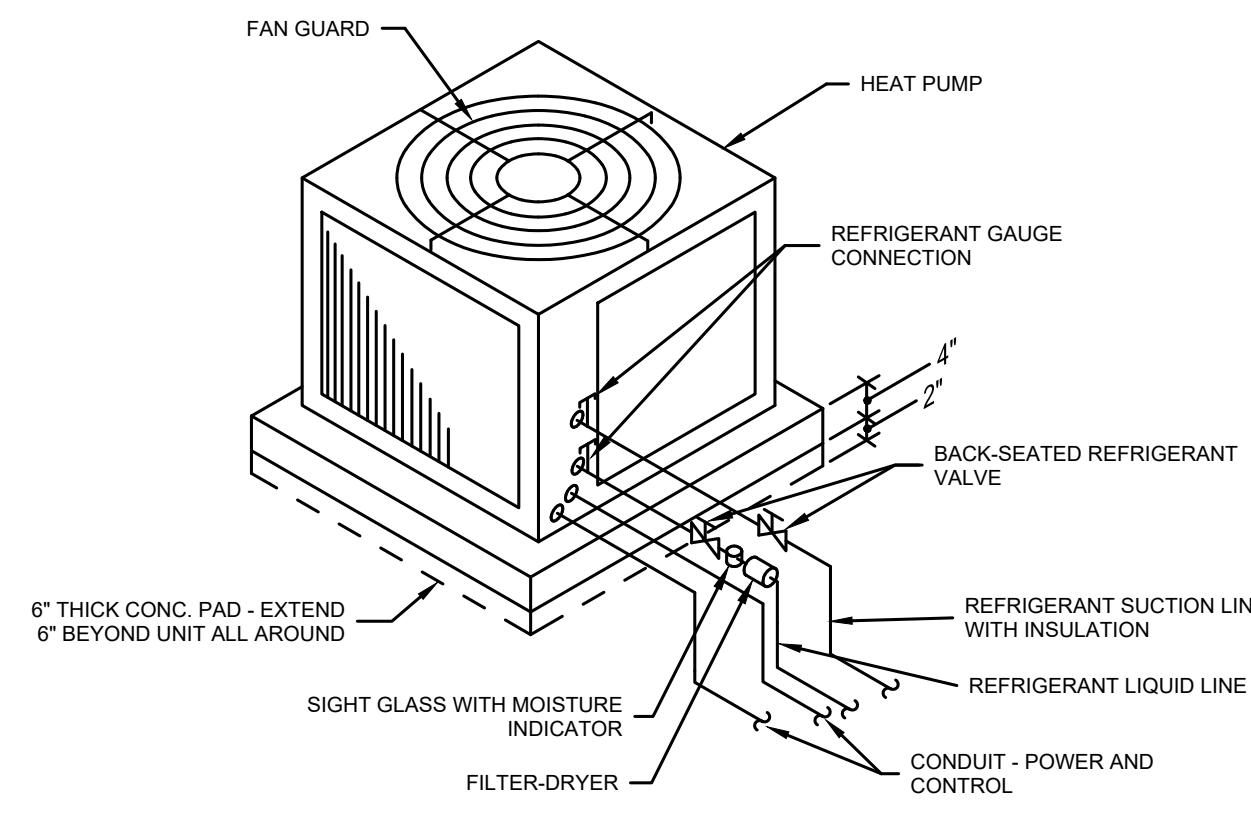
5 HIGH VELOCITY BLOWER DETAILS

M6.01 SCALE: NONE



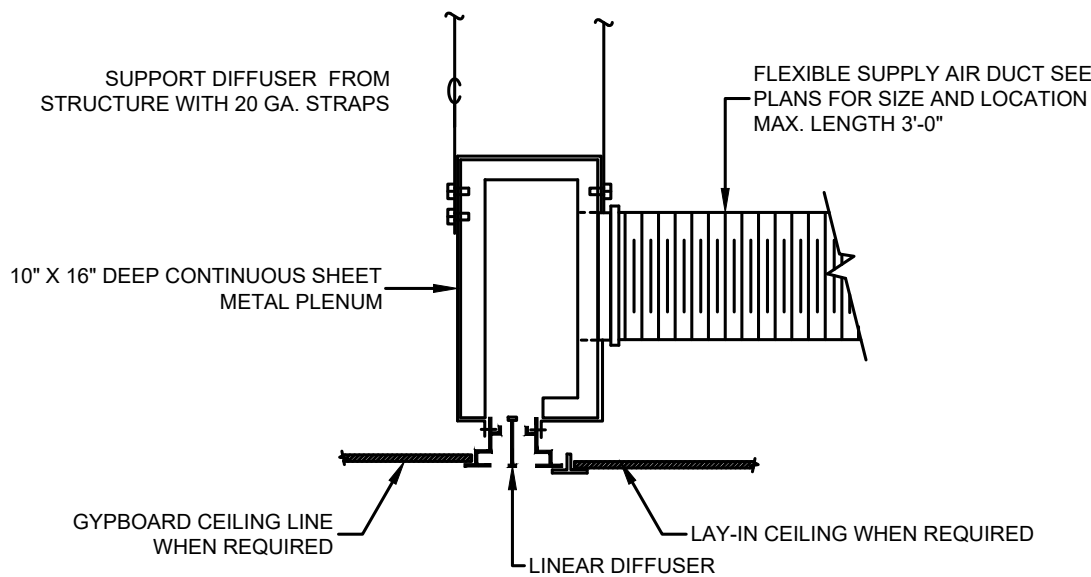
1 CEILING DIFFUSER INSTALLATION DETAILS

M6.01 SCALE: NONE



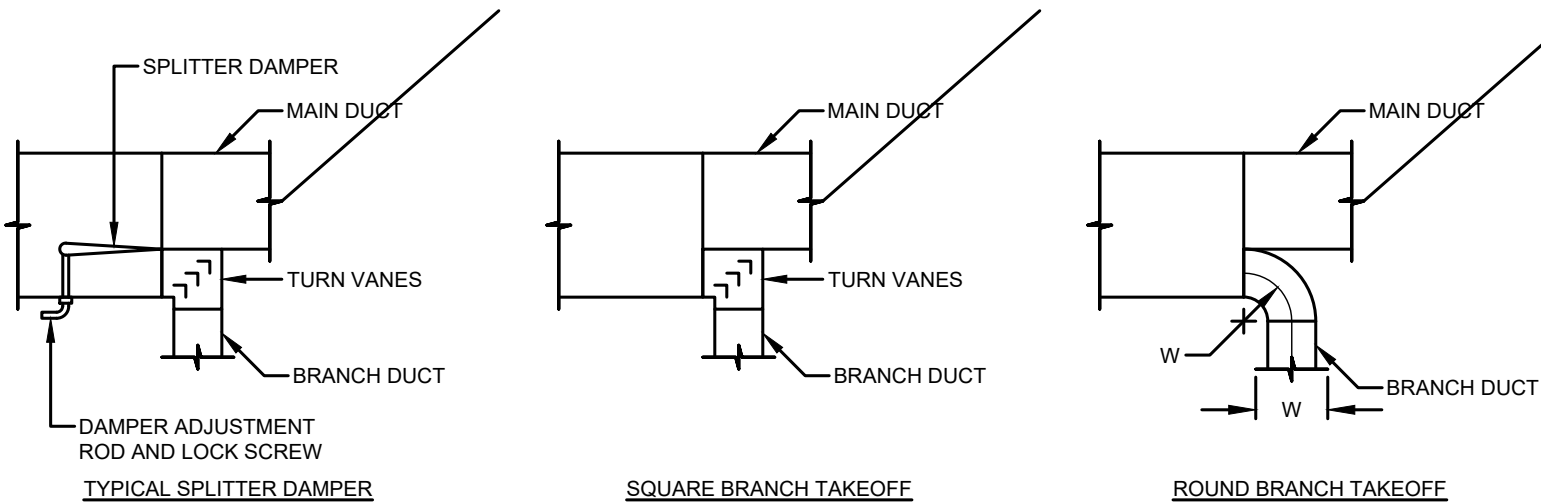
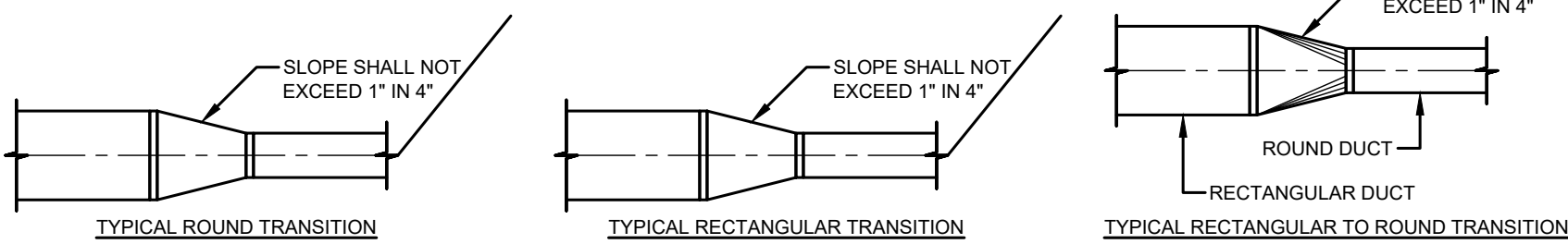
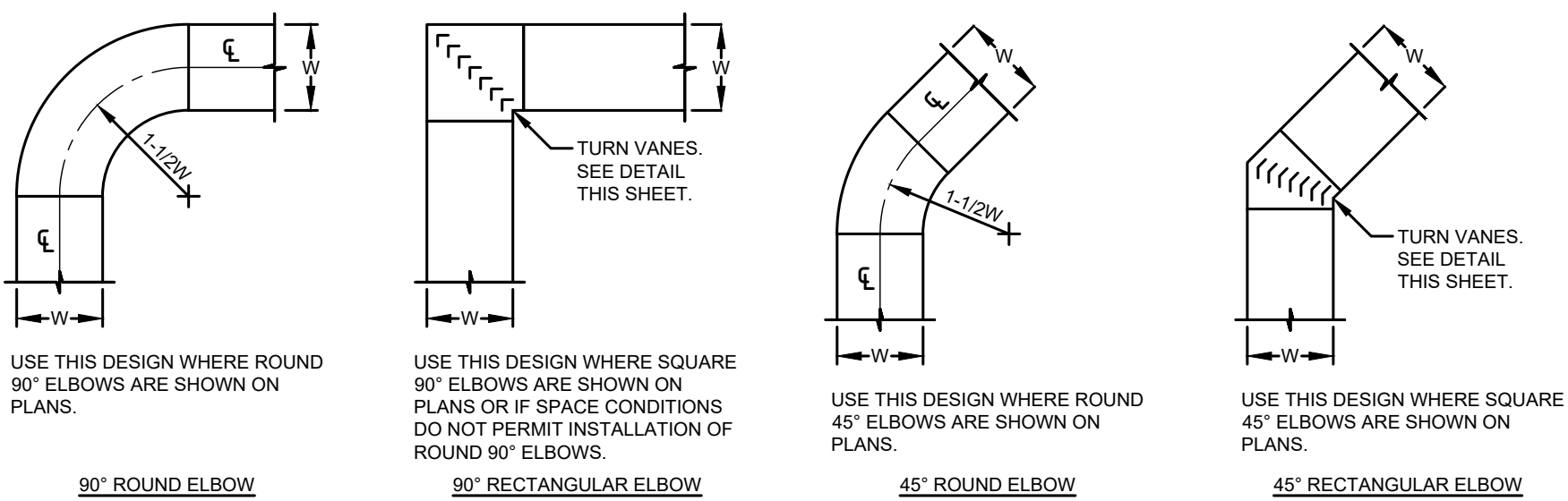
2 HEAT PUMP INSTALLATION DETAILS

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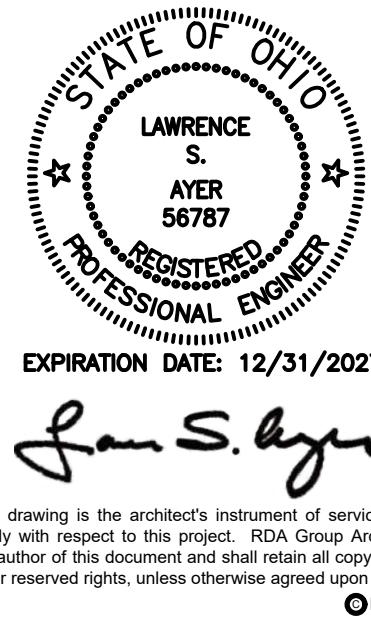
3 LINEAR SLOT DIFFUSER INSTALLATION DETAILS

M6.01 SCALE: NONE



4 LOW VELOCITY DUCT INSTALLATION DETAILS

M6.01 SCALE: NONE



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Springfield, Ohio 45506

Prepared for: Springfield Metropolitan Housing Authority

Project Number
2024-112

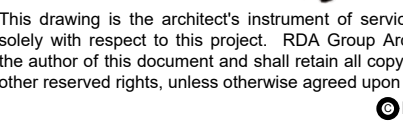
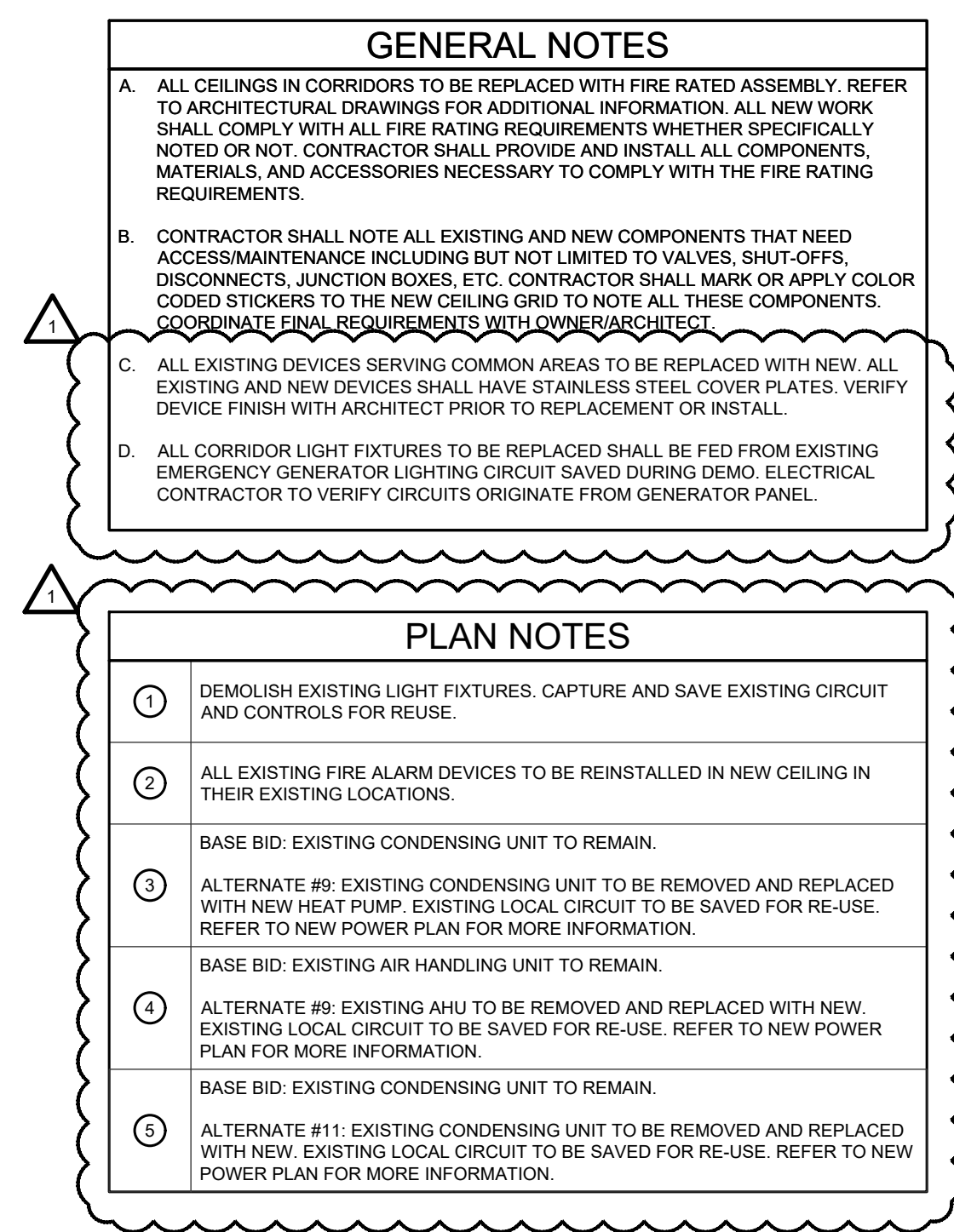
Date
January 12, 2026

Date Issue
12.19.25 Progress
01.12.26 Progress
02.02.26 90% Review Set
02.12.26 Bid/Construction Set
03.03.26 Addendum #1

Sheet Title
MECHANICAL DETAILS

Sheet Number

M6.01



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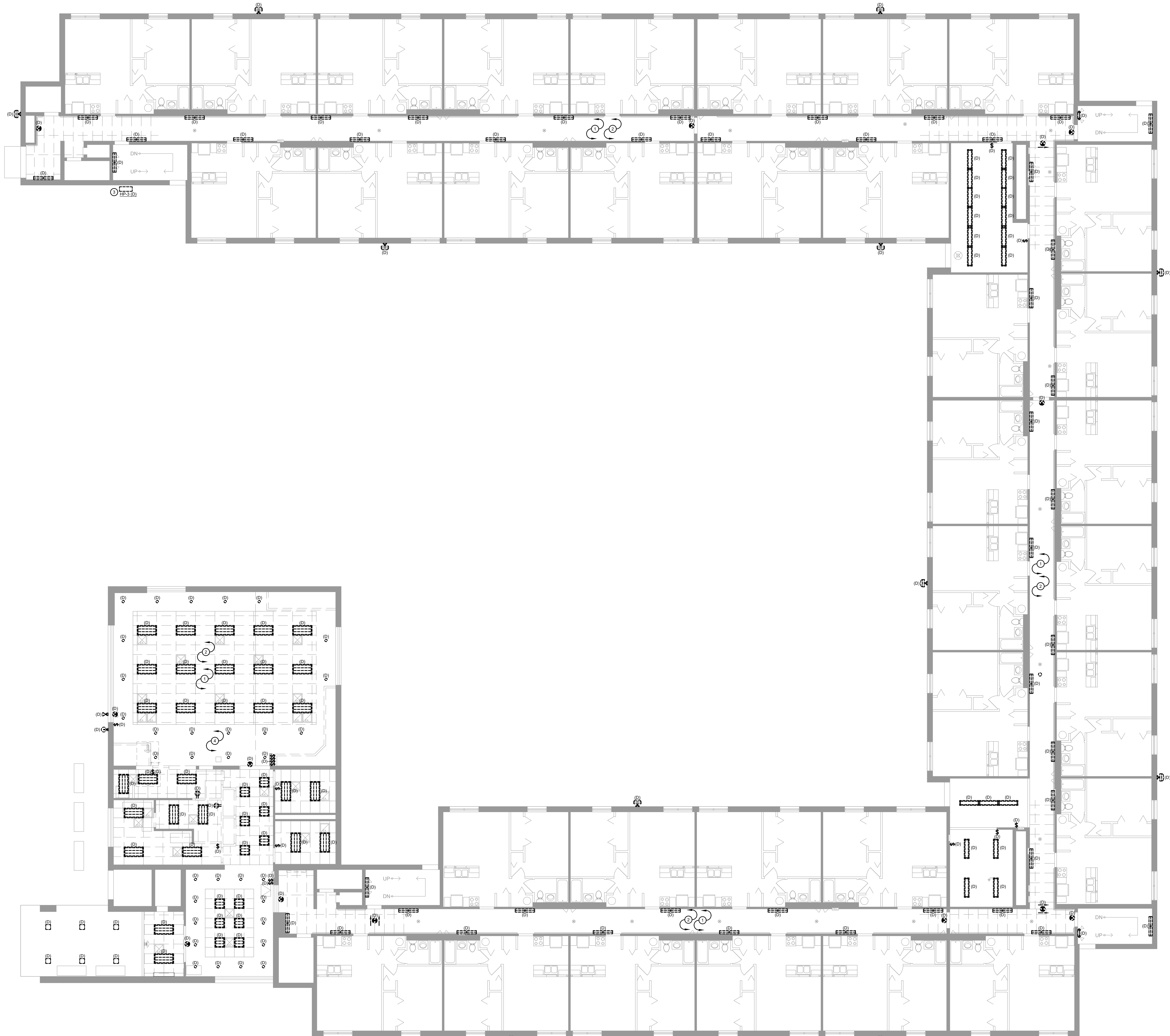
Sheet Title

GROUND FLOOR ELECTRICAL
DEMO PLAN

Sheet Number

ED1.11

1 GROUND FLOOR ELECTRICAL DEMO PLAN
ED1.11 SCALE: 1/8" = 1'-0" 0' 4' 8' 16'



- GENERAL NOTES**

A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.

B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

C. ALL EXISTING DEVICES SERVING COMMON AREAS TO BE REPLACED WITH NEW. ALL EXISTING AND NEW DEVICES SHALL HAVE STAINLESS STEEL COVER PLATES. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO REPLACEMENT OR INSTALL.

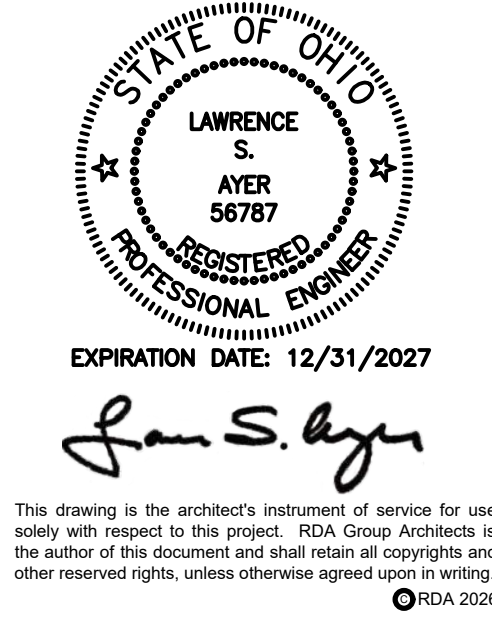
D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.
- PLAN NOTES**

1 EXISTING LIGHT FIXTURES IDENTIFIED AS DEMO TO BE REMOVED. EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS TO BE SAVED FOR RE-USE. REFER TO NEW LIGHTING PLAN FOR MORE INFORMATION.

2 ALL EXISTING FIRE ALARM DEVICES TO BE REMOVED AND REINSTALLED IN NEW CEILING IN THEIR EXISTING LOCATIONS.

3 EXISTING HEAT PUMP TO BE REMOVED AND REPLACED WITH NEW. EXISTING LOCAL CIRCUIT TO BE SAVED FOR RE-USE. REFER TO NEW POWER PLAN FOR MORE INFORMATION.

4 EXISTING RECEPTACLES IDENTIFIED AS DEMO TO BE REMOVED TO NEAREST JUNCTION BOX.



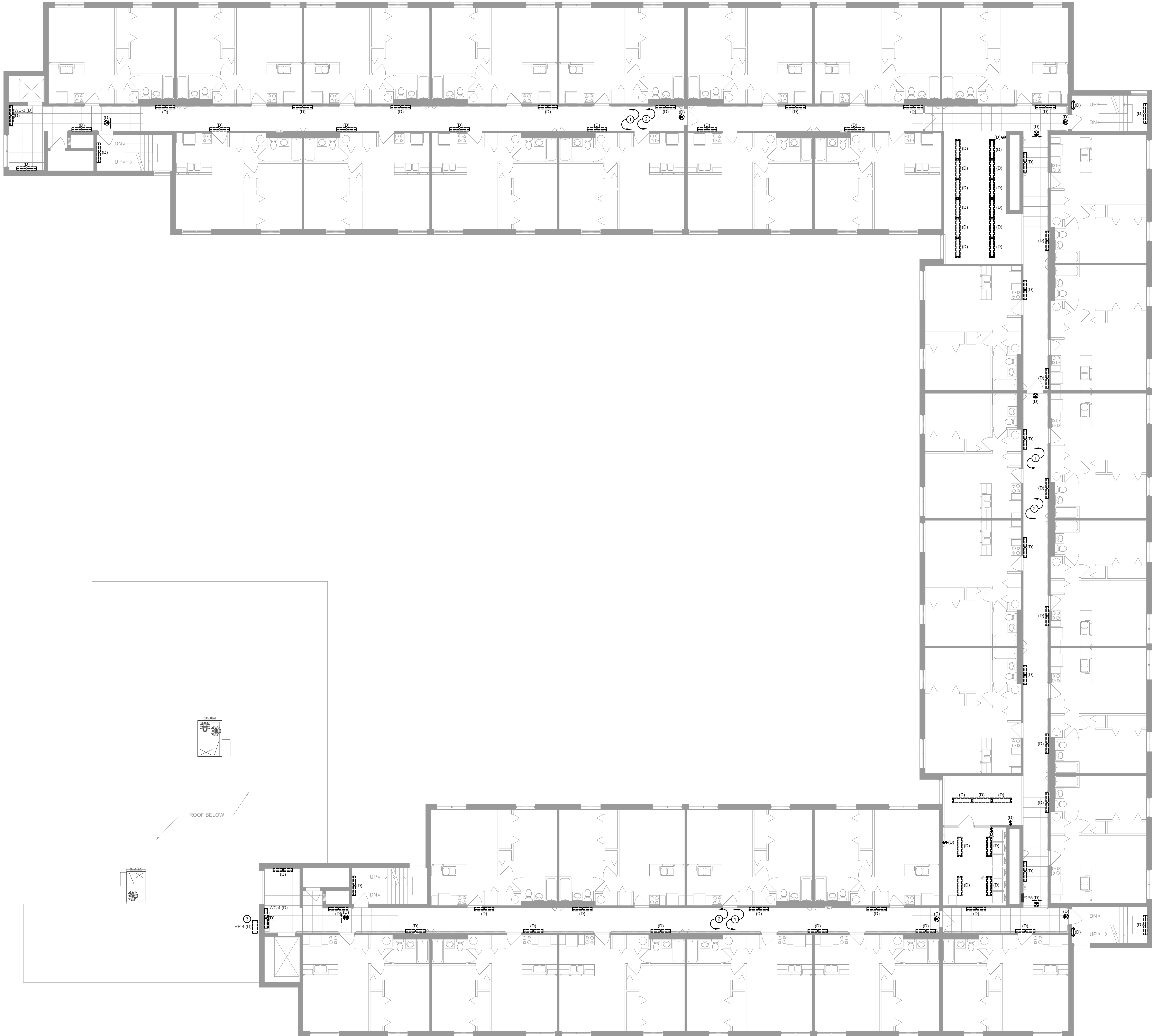
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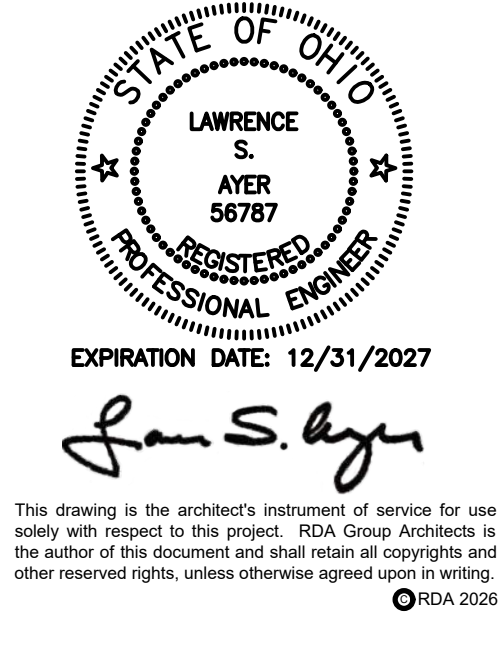
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03.03.26	Addendum #1
Sheet Title	
FIRST FLOOR ELECTRICAL DEMO PLAN	
Sheet Number	

ED1.21



- GENERAL NOTES**
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- C. ALL EXISTING DEVICES SERVING COMMON AREAS TO BE REPLACED WITH NEW. ALL EXISTING AND NEW DEVICES SHALL HAVE STAINLESS STEEL COVER PLATES. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO REPLACEMENT OR INSTALL.
- D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.

- PLAN NOTES**
- ① DEMOLISH EXISTING LIGHT FIXTURES. CAPTURE AND SAVE EXISTING CIRCUIT AND CONTROLS FOR REUSE.
- ② ALL EXISTING FIRE ALARM DEVICES TO BE REINSTALLED IN NEW CEILING IN THEIR EXISTING LOCATIONS.
- ③ EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW. EXISTING LOCAL CIRCUIT TO BE SAVED FOR RE-USE. REFER TO NEW POWER PLAN FOR MORE INFORMATION.

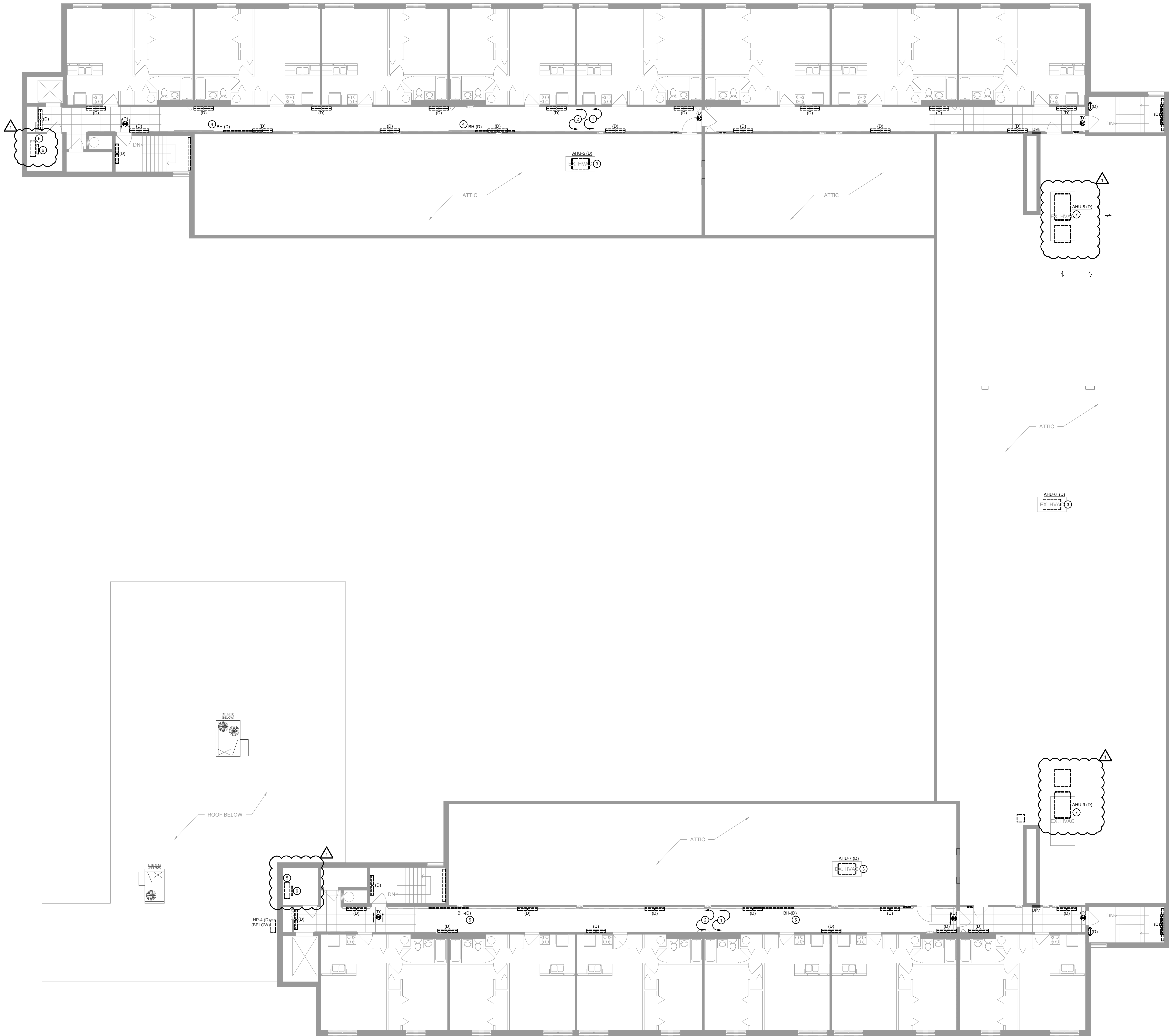


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03.03.26	Addendum #1
Sheet Title	
SECOND FLOOR ELECTRICAL DEMO PLAN	
Sheet Number	

ED1.31



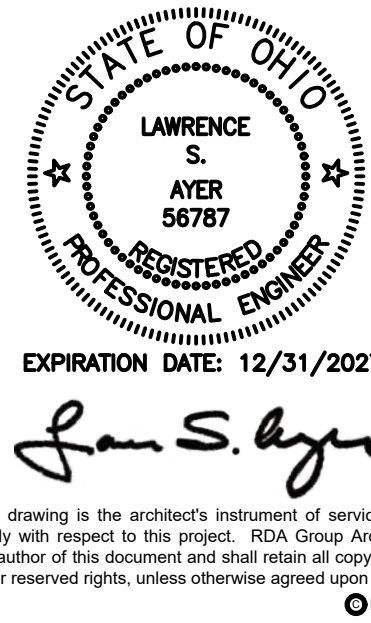
1 THIRD FLOOR ELECTRICAL DEMO PLAN
ED1.41 SCALE: 1/8" = 1'-0"

GENERAL NOTES

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- D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.

PLAN NOTES

- 1 DEMOLISH EXISTING LIGHT FIXTURES. CAPTURE AND SAVE EXISTING CIRCUIT AND CONTROLS FOR REUSE.
- 2 ALL EXISTING FIRE ALARM DEVICES TO BE REINSTALLED IN NEW CEILING IN THEIR EXISTING LOCATIONS.
- 3 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW. EXISTING LOCAL CIRCUIT TO BE SAVED FOR RE-USE. REFER TO NEW POWER PLAN FOR MORE INFORMATION.
- 4 EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW. EXISTING LOCAL CIRCUIT TO BE SAVED FOR RE-USE. REFER TO NEW POWER PLAN FOR MORE INFORMATION.
- 5 ABANDONED DUCT HEATER TO BE REMOVED COMPLETE. EXISTING LOCAL CIRCUIT TO BE SAVED FOR RE-USE. REFER TO NEW POWER PLAN FOR MORE INFORMATION.
- 6 EXISTING BASE HEATER TO BE REMOVED COMPLETE. DEMO EXISTING WIRING BACK TO NEAREST JUNCTION BOX.
- 7 EXISTING AHU TO BE REMOVED COMPLETE. DEMO EXISTING WIRING BACK TO NEAREST JUNCTION BOX.



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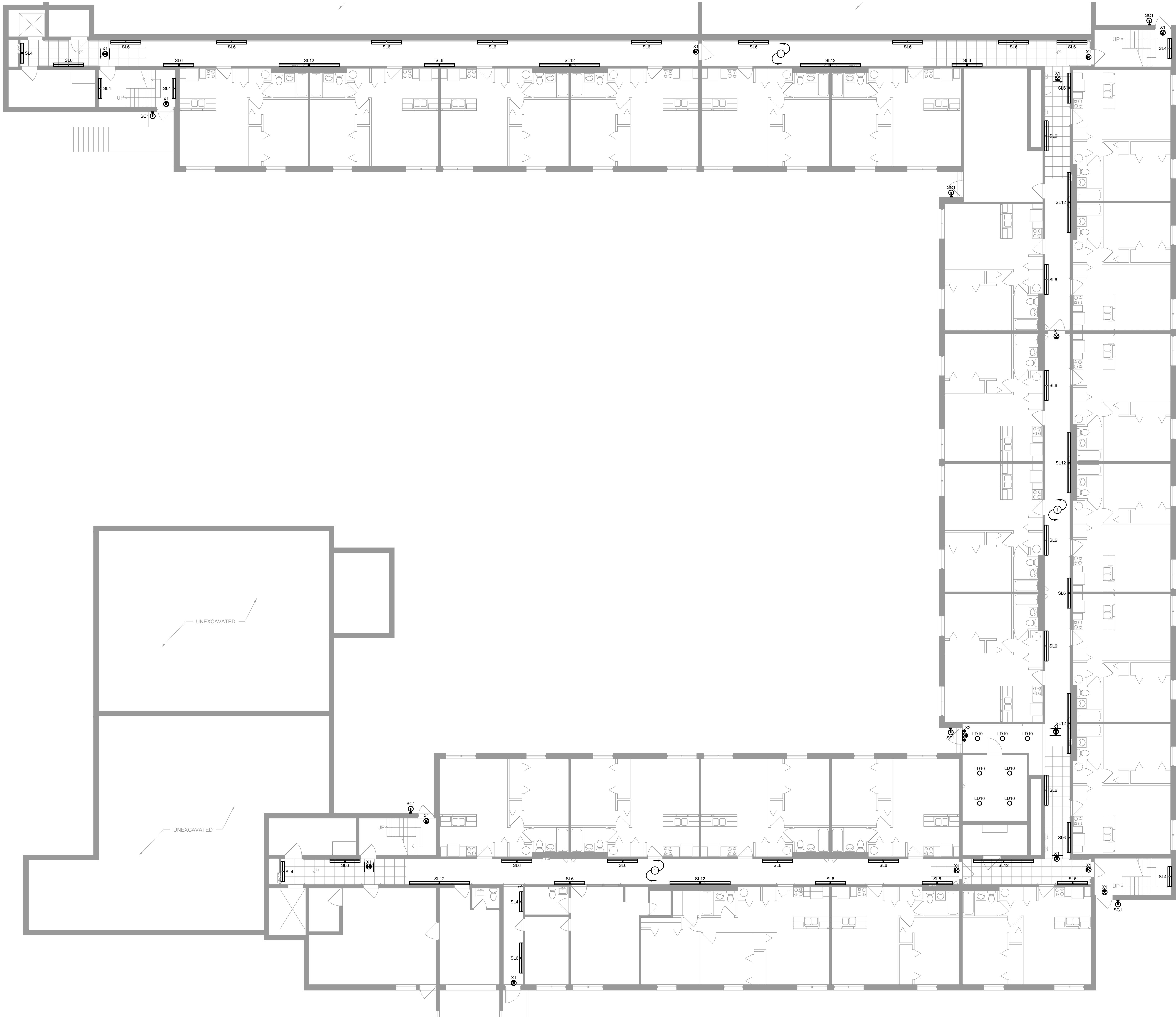
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Project Number	2024-112
Date	January 12, 2026
Date	Issue
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01.12.26	Progress
02.02.26	90% Review Set
02.12.26	Bid/Construction Set
03.03.26	Addendum #1

Sheet Title
THIRD FLOOR ELECTRICAL DEMO
PLAN

Sheet Number

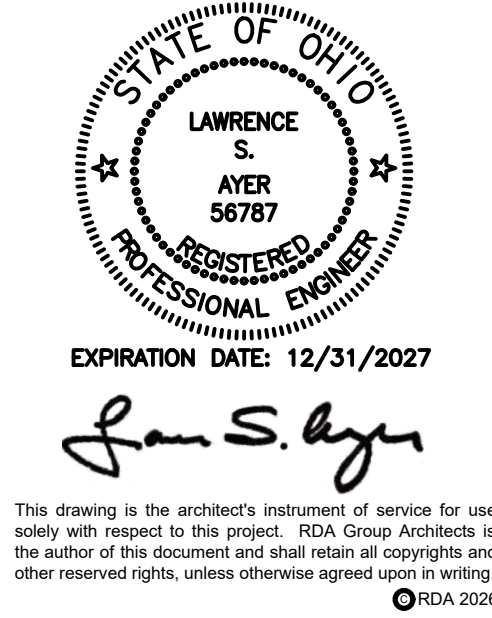
ED1.41



1 GROUND FLOOR LIGHTING PLAN
E1.11 SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

- GENERAL NOTES**
- A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.
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- C. ALL EXISTING DEVICES SERVING COMMON AREAS TO BE REPLACED WITH NEW. ALL EXISTING AND NEW DEVICES SHALL HAVE STAINLESS STEEL COVER PLATES. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO REPLACEMENT OR INSTALL.
- D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.

- PLAN NOTES**
- ① WIRE NEW LIGHT FIXTURES TO EXISTING LOCAL LIGHTING CIRCUITS SAVED DURING DEMOLITION.
- ② ALL NIGHT LIGHTS, EXIT SIGNS, AND NOTED EMERGENCY LUMINAIRES TO BE WIRED TO LOCAL AREA LIGHTING CIRCUIT. AHEAD OF ANY SWITCHING.
- ③ ---



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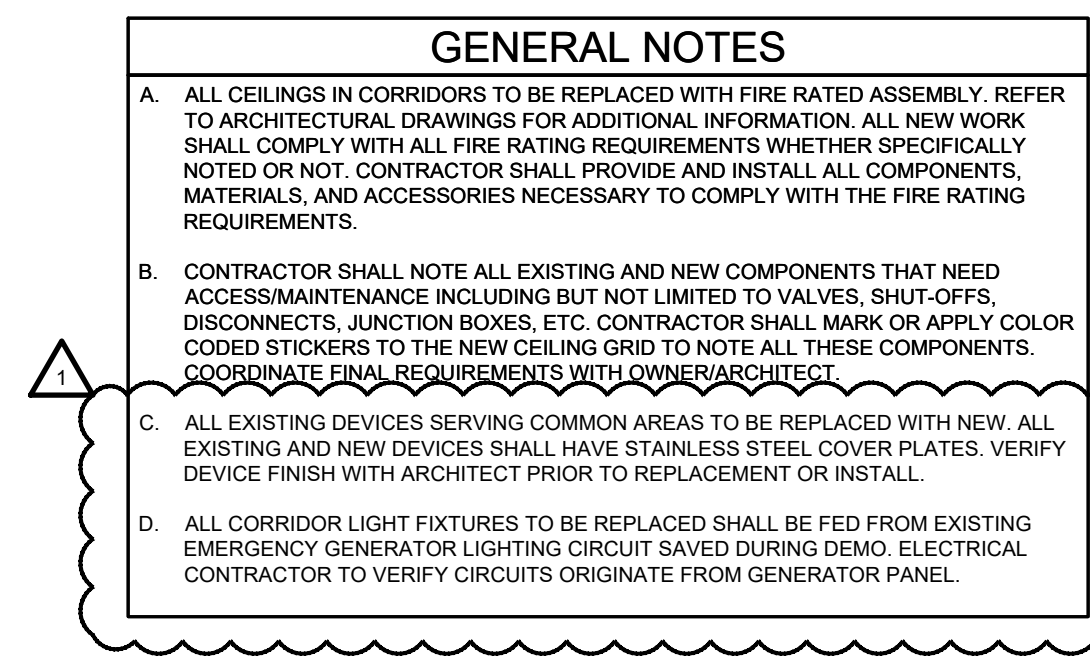
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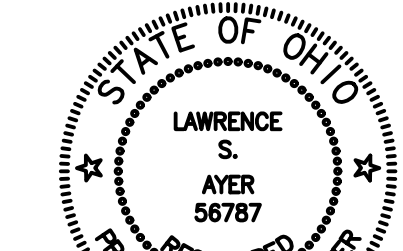
Sheet Title
GROUND FLOOR LIGHTING PLAN

Sheet Number

E1.11



PLAN NOTES	
①	WIRE NEW LIGHT FIXTURES TO EXISTING LOCAL LIGHTING CIRCUITS AND CONTROLS SAVED DURING DEMOLITION.
②	ALL NIGHT LIGHTS, EXIT SIGNS, AND NOTED EMERGENCY LUMINAIRES TO BE WIRE TO LOCAL AREA LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING.
③	FIXTURES IDENTIFIED AS EMERGENCY SHALL BE WIRED TO EXISTING LOCAL EMERGENCY GENERATOR CIRCUIT SAVED DURING DEMOLITION.
④	REPLACE EXISTING EXTERIOR LIGHT FIXTURES WITH NEW, WIRE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS SAVED DURING DEMOLITION.
⑤	NEW EXTERIOR WALL PACK MOUNTING HEIGHT TO MATCH EXISTING WALL PACK ELEVATION LOCATED ON SOUTH WALL OF BUILDING.



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Jan S. Ayres

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Modernization Project 2026 at:
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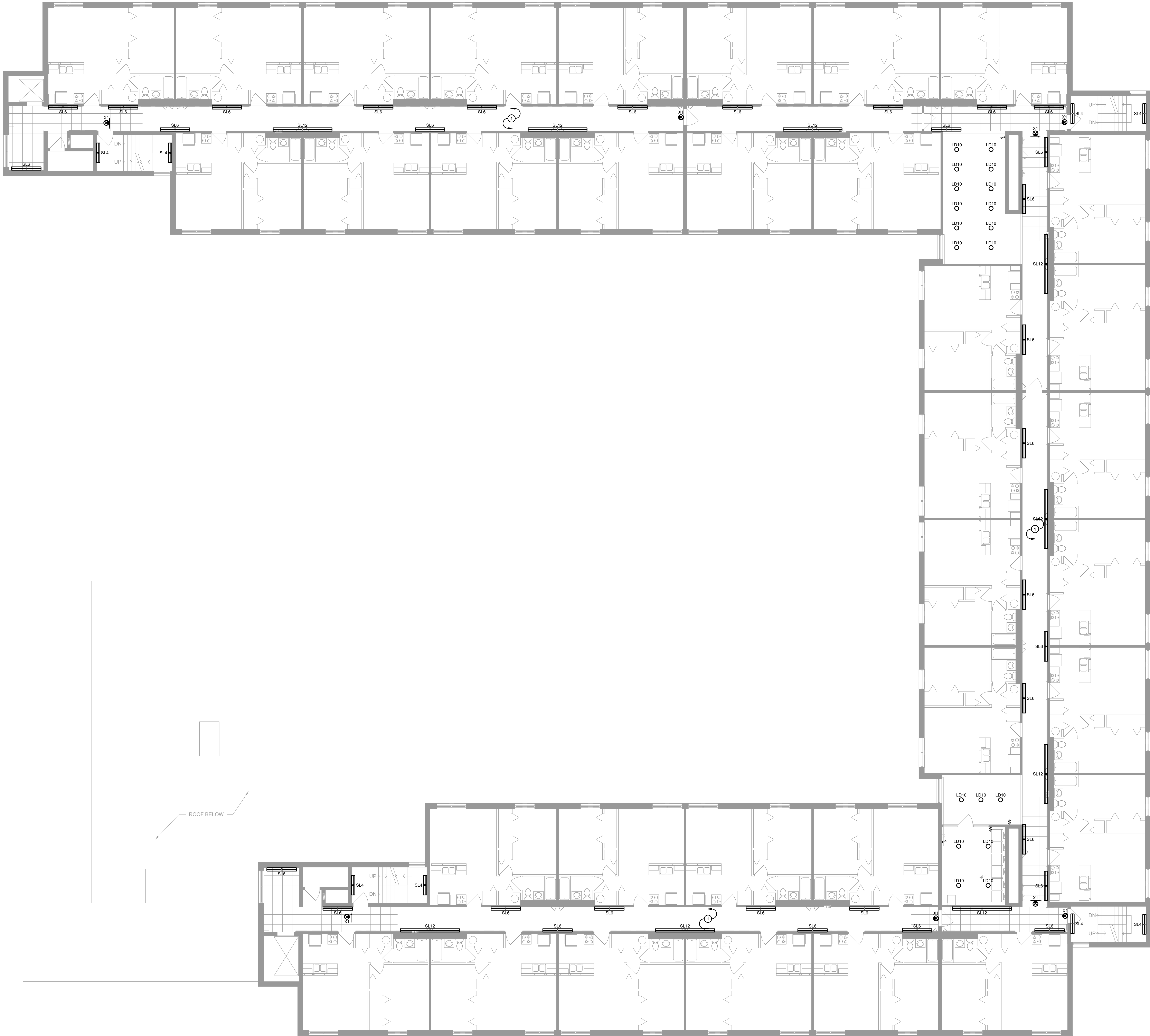
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03.03.26	Addendum #1

Sheet Title

FIRST FLOOR LIGHTING PLAN

Sheet Number

E1.21



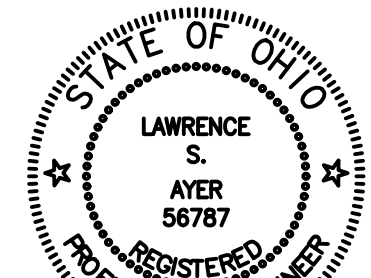
1 SECOND FLOOR LIGHTING PLAN
E1.31 SCALE: 1/8" = 1'-0"

GENERAL NOTES

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PLAN NOTES

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- ③ ...



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Lawrence S. Ayer

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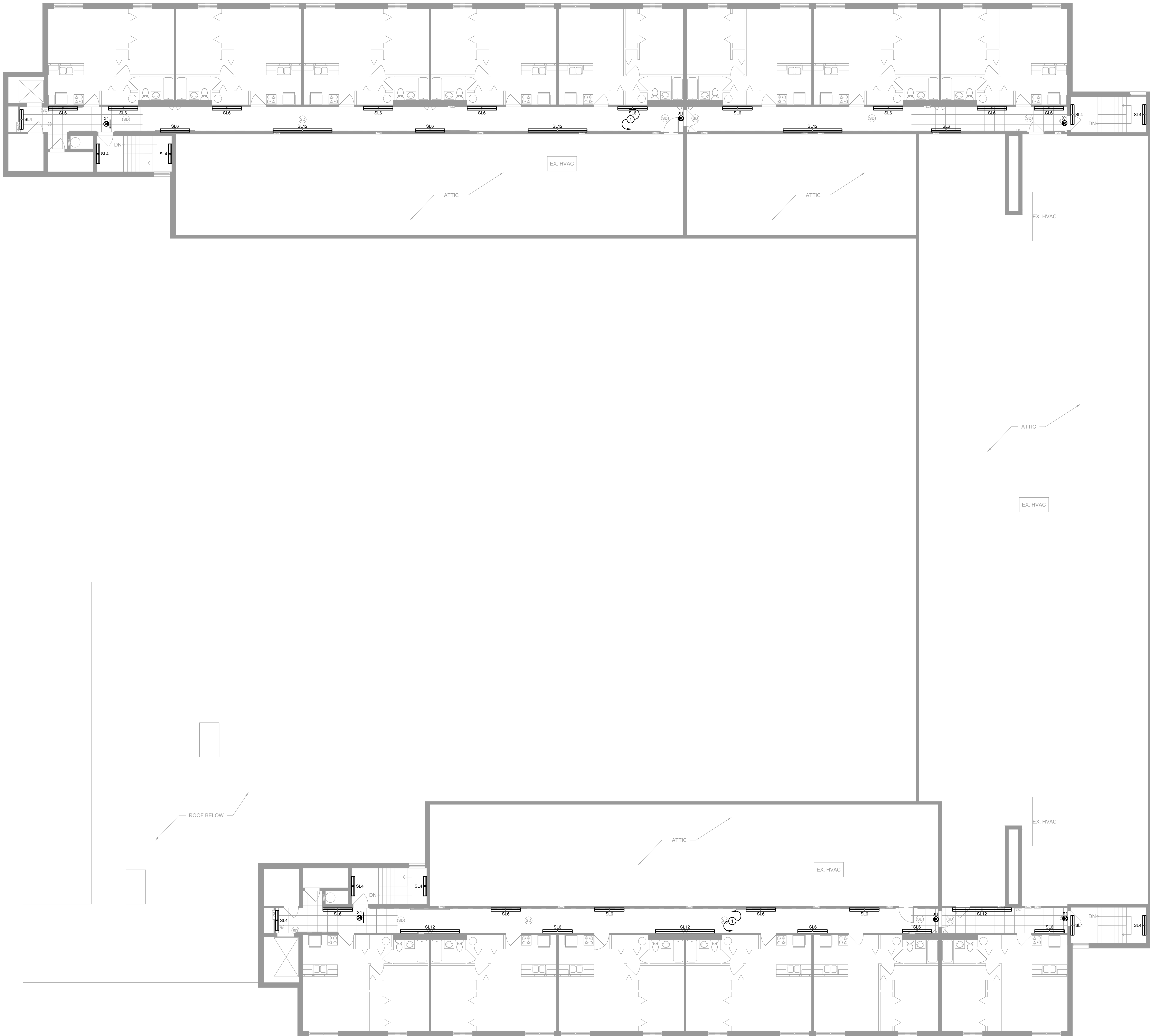
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Sheet Title
SECOND FLOOR LIGHTING PLAN

Sheet Number

E1.31



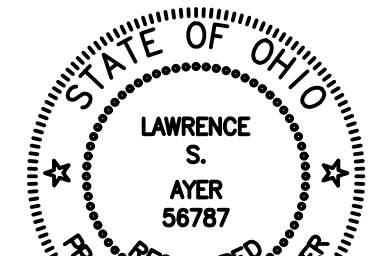
1 THIRD FLOOR LIGHTING PLAN
E1.41 SCALE: 1/8" = 1'-0"

GENERAL NOTES

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- ③ ---



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Lawrence S. Ayer

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www.ewa-eng.com

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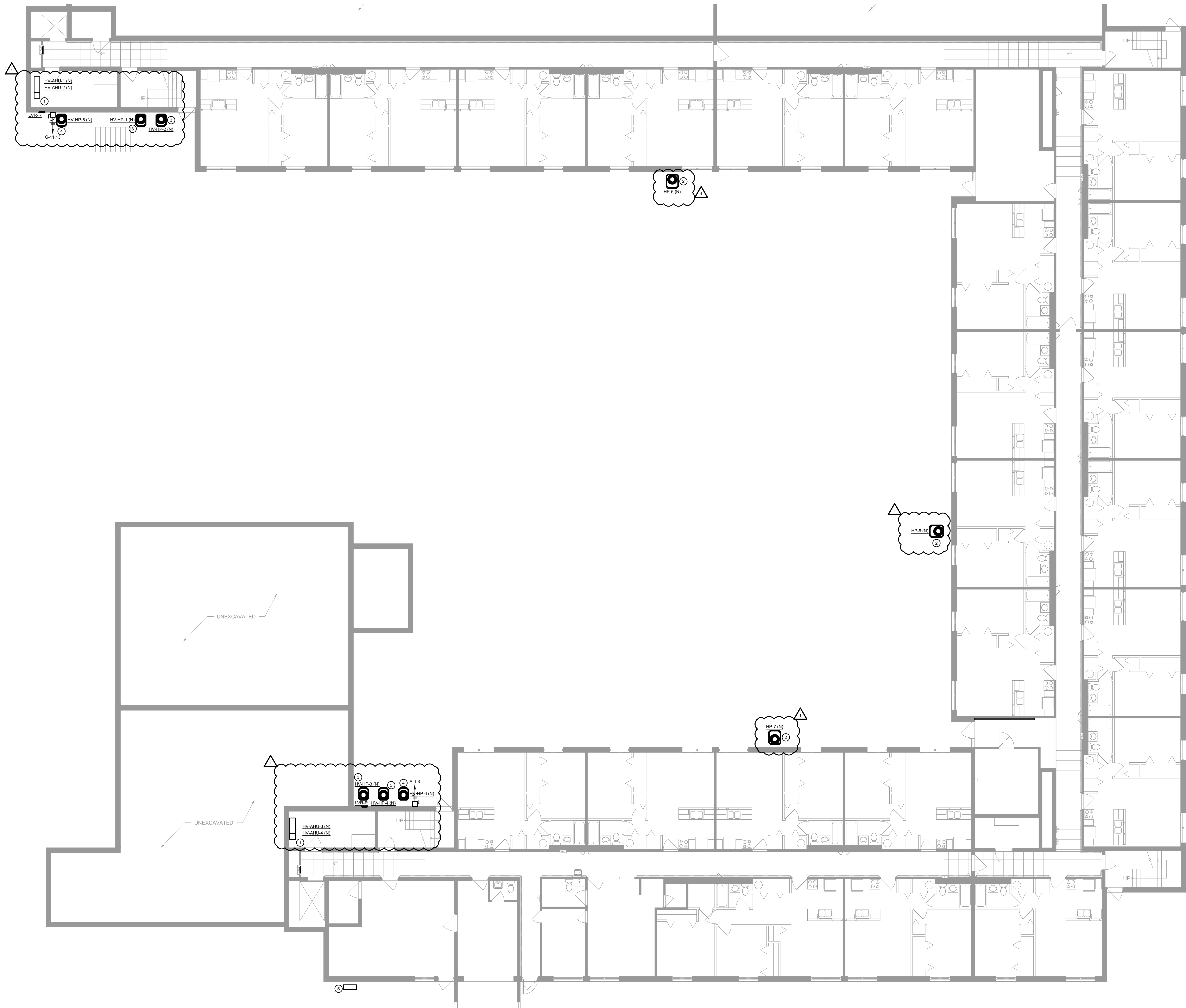
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Sheet Title
THIRD FLOOR LIGHTING PLAN

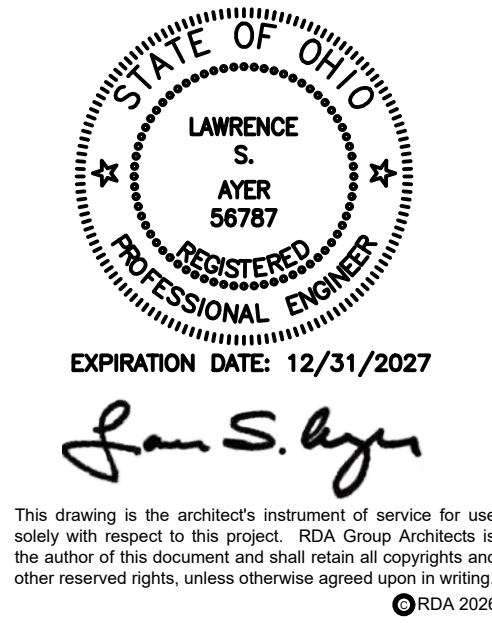
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E1.41



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- B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.
- C. ALL EXISTING DEVICES SERVING COMMON AREAS TO BE REPLACED WITH NEW. ALL EXISTING AND NEW DEVICES SHALL HAVE STAINLESS STEEL COVER PLATES. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO REPLACEMENT OR INSTALL.
- D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.

- PLAN NOTES**
- BASE BID: EXISTING HIGH VELOCITY SYSTEM TO REMAIN.
1. ALTERNATE #9: NEW AIR HANDLING UNIT TO BE WIRED TO EXISTING LOCAL CIRCUIT CAPTURED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
- BASE BID: EXISTING CONDENSING UNIT TO REMAIN.
2. ALTERNATE #11: NEW HEAT PUMP TO BE WIRED TO EXISTING LOCAL CIRCUIT CAPTURED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
- BASE BID: EXISTING HIGH VELOCITY SYSTEM TO REMAIN.
3. ALTERNATE #9: NEW HEAT PUMP TO BE WIRED TO EXISTING LOCAL CIRCUIT CAPTURED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
4. ALTERNATE #10: PROVIDE POWER AND LOCAL NEMA-3R DISCONNECT TO HEAT PUMP. COORDINATE AND VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR ROUGH-IN.
5. HEAT PUMP TO BE WIRED TO EXISTING LOCAL CIRCUIT SAVED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.



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Modernization Project 2026 at:
Grayhill Apartments
220 Montgomery Avenue
Springfield, Ohio 45506
Prepared for: Springfield Metropolitan Housing Authority

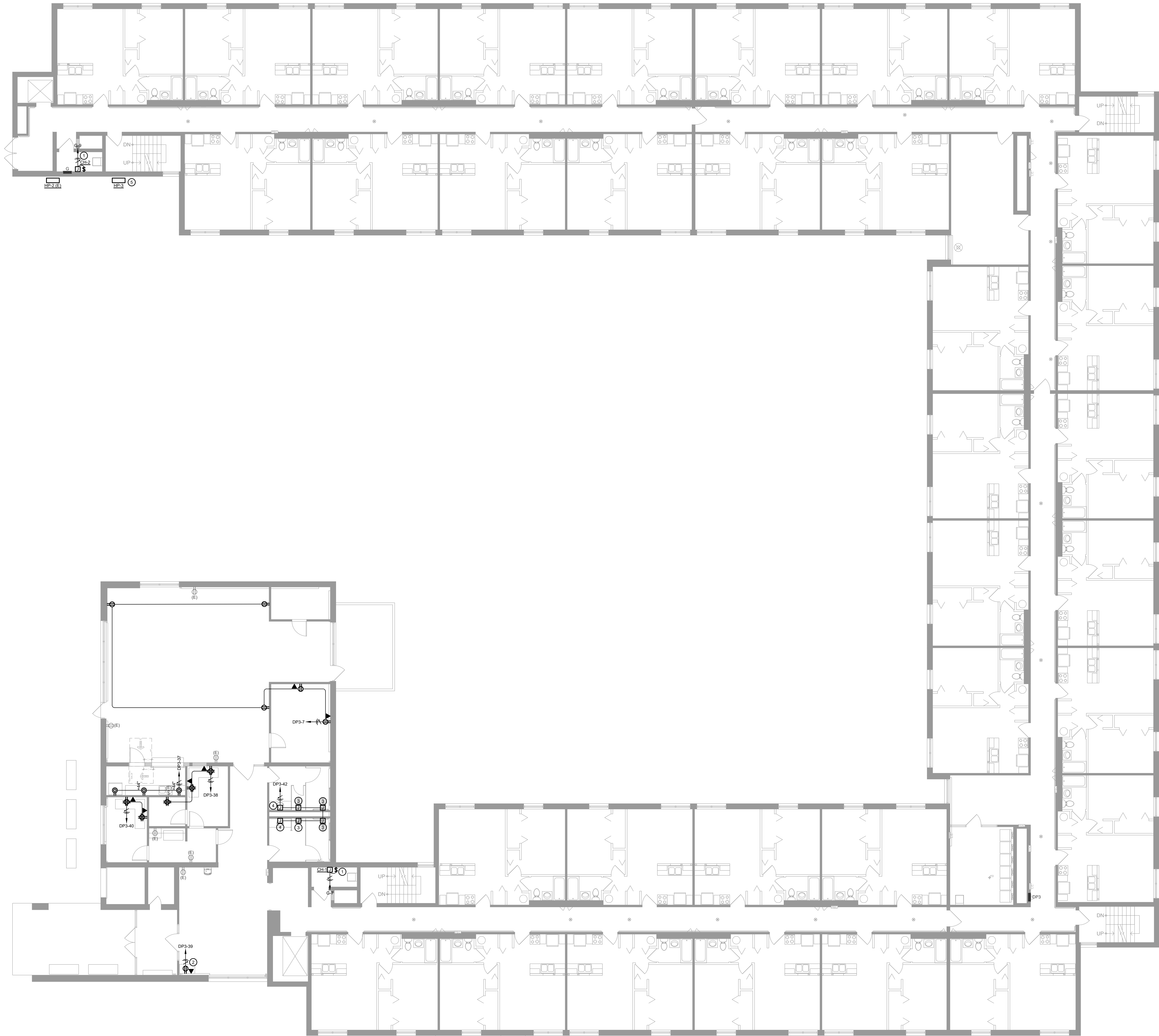
Project Number	2024-112
Date	January 12, 2026
Date	Issue
12.19.25	Progress
01.12.26	Progress
02.02.26	90% Review Set
02.12.26	Bid/Construction Set
03.03.26	Addendum #1

Sheet Title

GROUND FLOOR POWER PLAN

Sheet Number

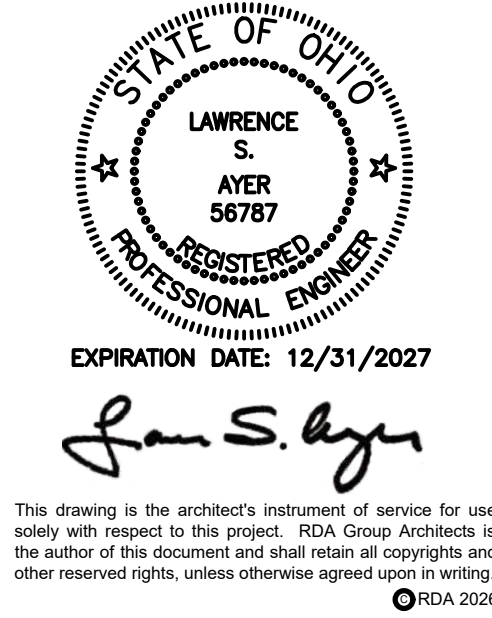
E2.11



1 FIRST FLOOR POWER PLAN
E2.21 SCALE: 1/8" = 1'-0" 0' 4' 8' 16'

- GENERAL NOTES**
- A. ALL CEILINGS IN CORRIDORS TO BE REPLACED WITH FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW WORK SHALL COMPLY WITH ALL FIRE RATING REQUIREMENTS WHETHER SPECIFICALLY NOTED OR NOT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS, MATERIALS, AND ACCESSORIES NECESSARY TO COMPLY WITH THE FIRE RATING REQUIREMENTS.
- B. CONTRACTOR SHALL NOTE ALL EXISTING AND NEW COMPONENTS THAT NEED ACCESS/MAINTENANCE INCLUDING BUT NOT LIMITED TO VALVES, SHUT-OFFS, DISCONNECTS, JUNCTION BOXES, ETC. CONTRACTOR SHALL MARK OR APPLY COLOR CODED STICKERS TO THE NEW CEILING GRID TO NOTE ALL THESE COMPONENTS. COORDINATE FINAL REQUIREMENTS WITH OWNER/ARCHITECT.
- C. ALL EXISTING DEVICES SERVING COMMON AREAS TO BE REPLACED WITH NEW. ALL EXISTING AND NEW DEVICES SHALL HAVE STAINLESS STEEL COVER PLATES. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO REPLACEMENT OR INSTALL.
- D. ALL CORRIDOR LIGHT FIXTURES TO BE REPLACED SHALL BE FED FROM EXISTING EMERGENCY GENERATOR LIGHTING CIRCUIT SAVED DURING DEMO. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS ORIGINATE FROM GENERATOR PANEL.

- PLAN NOTES**
- 1 PROVIDE POWER AND LOCAL DISCONNECT TO COVE HEATER PER MANUFACTURER'S SPECIFICATIONS. COORDINATE AND VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 2 ALTERNATE #7: PROVIDE POWER AND DATA TO PACKAGE LOCKER SYSTEM UNIT. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND VENDOR PRIOR TO ROUGH-IN.
- 3 PROVIDE POWER TO AUTOMATIC FLUSH VALVE PER MANUFACTURER'S SPECIFICATIONS. COORDINATE AND VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 4 PROVIDE POWER TO AUTOMATIC LAV FAUCET PER MANUFACTURER'S SPECIFICATIONS. COORDINATE AND VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 5 BASE BID NEW HEAT PUMP TO BE WIRED TO EXISTING LOCAL CIRCUIT CAPTURED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
- 6 ALTERNATE #10 PROVIDE POWER AND LOCAL NEMA-3R DISCONNECT TO SERVE HIGH VELOCITY HVAC SYSTEM. IN LIEU OF BASE BID RE-WIRE.
- 7 NOT USED



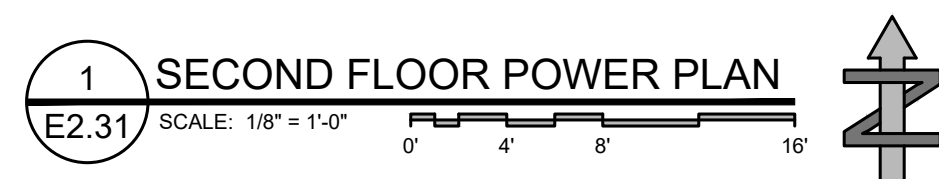
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FIRST FLOOR POWER PLAN	
Sheet Number	

E2.21

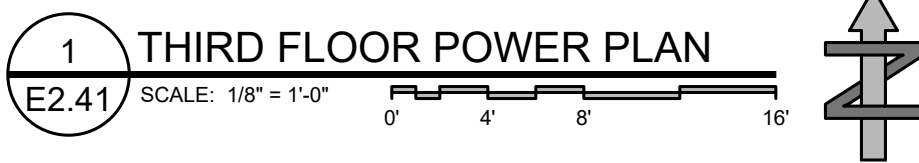


PLAN NOTES	
1	PROVIDE POWER AND LOCAL DISCONNECT TO COVE HEATER PER MANUFACTURER'S SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO POUR.
2	PROVIDE WEATHER PROTECTED GFCI RECEPTABLES WITHIN 25'-0" OF MECHANICAL EQUIPMENT. VERIFY EXACT LOCATION IN FIELD. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
3	NEW HEAT PUMP TO BE WIRED TO EXISTING LOCAL CIRCUIT CAPTURED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
4	NEW WALL CASSETTE TO BE POWERED BY NEW OUTDOOR UNIT. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.



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E2.31



PLAN NOTES

①	PROVIDE POWER AND LOCAL DISCONNECT TO COVE HEATER PER MANUFACTURER'S SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
②	PROVIDE WEATHER PROTECTED GFCI RECEPTABLES WITHIN 25'-0" OF MECHANICAL EQUIPMENT. VERIFY EXACT LOCATION IN FIELD. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
③	PROVIDE POWER AND LOCAL DISCONNECT TO LAUNDRY EXHAUST FAN PROVIDED IN ATTIC. COORDINATE AND VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
④	PROVIDE POWER AND LOCAL DISCONNECT TO BASEBOARD HEATER PER MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
⑤	BASEBOARD HEATERS TO BE REPLACED WITH NEW, WIRE NEW HEATERS TO EXISTING CIRCUIT SAVED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS PRIOR TO COMMENCING WORK.
⑥	REPLACE EXISTING AHU WITH NEW. WIRE NEW UNIT TO EXISTING CIRCUIT SAVED DURING DEMO. COORDINATE AND VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.
	BASELINE BID: NO WORK REQUIRED
⑦	ALTERNATE #1: REPLACE EXISTING AHU WITH NEW. WIRE NEW UNIT TO EXISTING CIRCUIT SAVED DURING DEMO. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO MAKING FINAL CONNECTION.



Sheet Title
THIRD FLOOR POWER PLAN
Sheet Number

E2.41

LIGHT FIXTURE SCHEDULE								
SYMBOL	ID	DESCRIPTION	FIXTURE INFORMATION		ELECTRIC INFORMATION	MISCELLANEOUS INFORMATION		
	LC2	24" X 24" LED TROFFER	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	24V1.2 40LHE ADP E21 LPR35	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	27W		
		NOT USED	MAKE		VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL		LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	27W		
	LC2	24" X 24" LED TROFFER	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL	24V1.2 40LHE ADP E21 LPR35	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	27W		
		NOT USED	MAKE		VOLTAGE	MVOLT	MOUNTING	RECESSED
			MODEL		LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	27W		
	LD5	EXTERIOR CANOPY LIGHT FIXTURE	MAKE	TRID	VOLTAGE	MVOLT	MOUNTING	SURFACE
			MODEL		LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	125W		
	LD6	8" RECESSED LED CAN LIGHT	MAKE	PRESCOLITE	VOLTAGE	UNV	MOUNTING	RECESSED
			MODEL	LBRS1 BRD MLS ML CSB WH	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	40W		
	LD10	SURFACE MOUNTED DOWNLIGHT	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	FMRL 11 14830	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	16W		
	SL4	48" LED STRIP LIGHT FIXTURE	MAKE	PINELITE	VOLTAGE	120V	MOUNTING	SURFACE
			MODEL	HP-48WV-12-S-85-D-0-0-8-8-0-10-5C-FC-17V-LED-D-0-0-0-4-8-FE-5-8	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	36W		
	SL8	48" LED STRIP LIGHT FIXTURE	MAKE	PINELITE	VOLTAGE	120V	MOUNTING	SURFACE
			MODEL	HP-48WV-12-S-85-D-0-0-8-8-0-10-5C-FC-17V-LED-D-0-0-0-4-8-FE-5-8	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	36W		
	SL12	48" LED STRIP LIGHT FIXTURE	MAKE	PINELITE	VOLTAGE	120V	MOUNTING	SURFACE
			MODEL	HP-48WV-12-S-85-D-0-0-8-8-0-10-5C-FC-17V-LED-D-0-0-0-4-8-FE-5-8	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	36W		
	WP1	LED EXTERIOR WALL PACK	MAKE	LSI	VOLTAGE	120V	MOUNTING	SURFACE
			MODEL	SHH150 10L F1 8W 9M 4/8 9/2	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	78W		
	X1	EXTERIOR SCENCE	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	OLVTWM	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	15W		
	X1	SINGLE HEAD EMERGENCY EGRESS LIGHT	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	ERE QY SQL WP RD	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	5W		
	X1	EMERGENCY EXIT SIGN	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	EXRG	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	5W		
	X2	EMERGENCY EXIT SIGN WITH DUAL REMOTE HEADS	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	SURFACE
			MODEL	LHOM	LAMP QTY	LED	HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	2W		
NOTES			DESIGNATIONS					
1. FIXTURES WITH THE SUFFIX "-EM" ATTACHED TO THE ID OR SHOWN HALF SHADED ARE EMERGENCY FIXTURES. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.			-N- NEW					
			-E- EXISTING					
			-D- DEMO					
			-R- RELOCATED					
2. FIXTURES WITH THE SUFFIX "-NL" ARE NIGHT LIGHTS. SEE ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.								

POWER PLAN SYMBOL LEGEND	
	DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	SPECIAL USE DEDICATED RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED REFER TO PANEL SCHEDULE FOR MORE INFORMATION
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	WEATHER PROOF RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	QUADRIplex RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	DATA JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	TELEVISION JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED
	JUNCTION BOX
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	COMBINATION POWER/COMMUNICATIONS FLOOR BOX WITH DUPLEX RECEPTACLE AND (2) DATA JACKS.
	10 MOTOR CONNECTION
	30 MOTOR CONNECTION
	FLUSH MOUNTED PANEL A = PANEL DESIGNATION
	SURFACE MOUNTED PANEL A = PANEL DESIGNATION
	METER
	HOME RUN A = PANEL DESIGNATION B = CIRCUIT NUMBER
	N = NEW
	E = EXISTING
	R = RELOCATED
	D = DEMO
	F = FUTURE
	40" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

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

ELECTRIC SERVICE LOAD CALCULATIONS			
LOAD CATEGORY	CONN. LOAD	DEMAND FACT.	EST. LOAD
ADDED LIGHTING	15.435 KW	125%	19.293 KW
ADDED RECEPTACLES	1.980 KW	100%	1.980 KW
ADDED ELECTRIC HEAT	3.600 KW	100%	3.600 KW
ADDED LIGHTING	-22.128 KW	125%	-27.660 KW
REMOVED RECEPTACLES	-0.360 KW	100%	-0.360 KW
NET LOAD REDUCTION			8.73 A

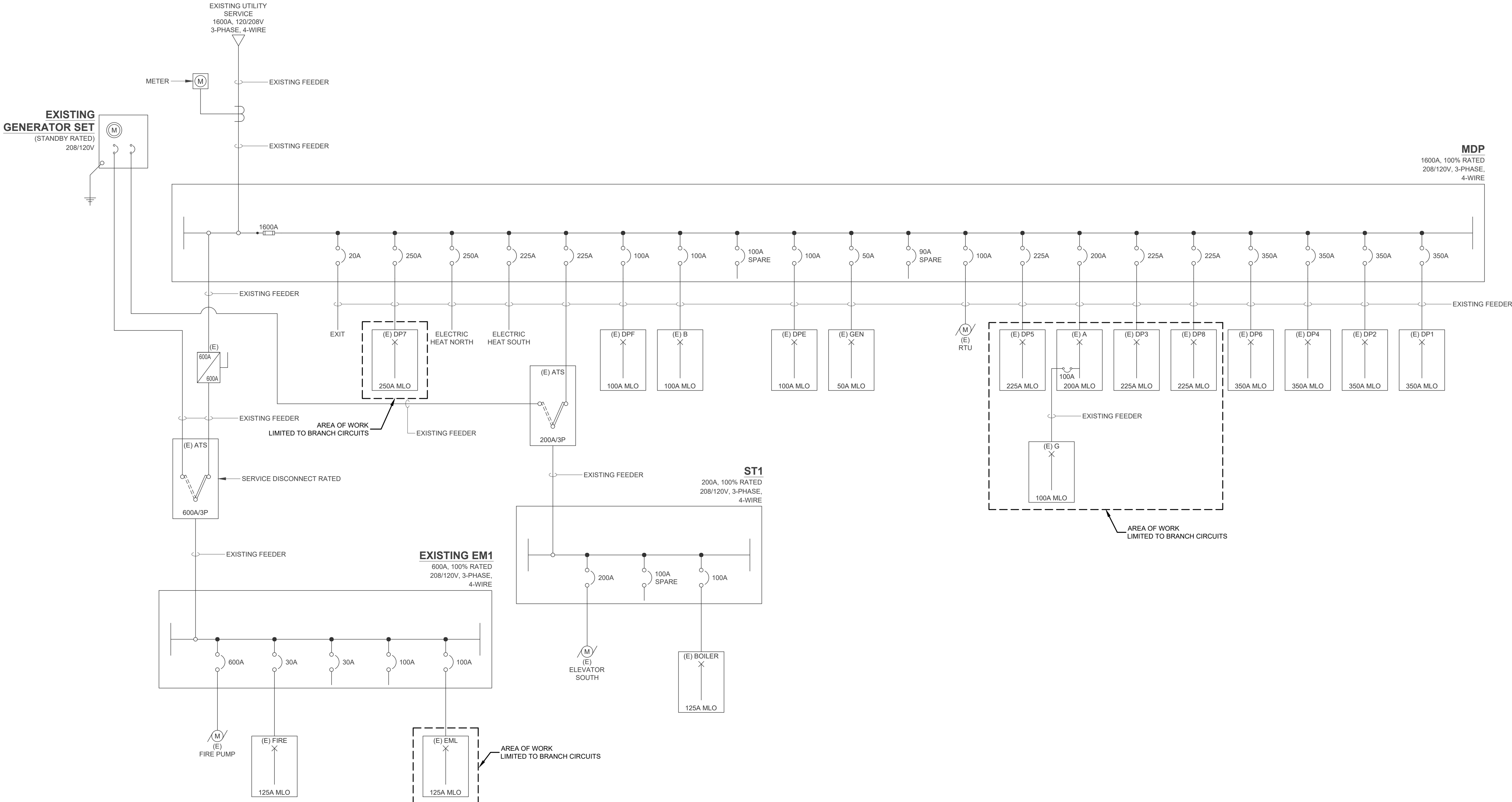
PROJECT GENERAL NOTES	
1.	THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INsofar AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTMENTS SHALL BE SUBMITTED IN WRITING 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 COMPANY 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.

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 SHADDED 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 PLenums.
4.	FROM EACH TELEPHONE, CRT, TV, ETC. COMMUNICATION TYPE OUTLET, PROVIDE A (MIN.) 3/4-INCH CONDUIT (WITH FULL 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, 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 EXT/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.

EXISTING CONDITIONS AND RELOCATION NOTES	
1.	THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVALS AND RELOCATIONS IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ENGINEER.
2.	THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW LAYOUTS AND SCHEMES. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY. ALL DEVICES THAT ARE TO REMAIN SHALL BE CONNECTED TO THE EXISTING BRANCH CIRCUITS OR NEW ONES AS REQUIRED.
3.	ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY DEMOLITION WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING.
4.	ALL PRESENT MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER AND/OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR AS DIRECTED.
5.	PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT ARE REQUIRED TO CONTINUE TO FUNCTION SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS: CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.
6.	THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFILIATED EQUIPMENT MAY BE CARRIED OUT IN COORDINATION WITH CONSTRUCTION SCHEDULES. THE CONTRACTOR SHALL FOLLOW THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
7.	ON DEMOLITION AND NEW WORK DRAWINGS, CORRESPONDING ANNOTATION: E - EXISTING D - DEMO R - RELOCATED

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. 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.
4.	CONTRACTOR MAY ARRANGE CIRCUITS TO SUIT FIELD CONDITIONS, BUT LOADING BETWEEN PHASES SHALL BE 11-10%.
5.	

LIGHTING PLAN SYMBOL LEGEND	
	LIGHTING FIXTURE EXISTING TO REMAIN
	LIGHTING FIXTURE TO BE REMOVED FROM LOCATION (IF ANY).
	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.
	"X" = FIXTURE TYPE "A-B" = SWITCH LEG
	TOGGLE SWITCH
	THREE-WAY TOGGLE SWITCH
	OCCUPANCY SENSOR
	LOW VOLTAGE DIMMER
	LIGHTING RELAY PANEL
	CEILING MOUNTED OCCUPANCY SENSOR
N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE 40" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.	





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Volts	Phase	Wire	Panel Type	Electrical Panel Schedule A						Ampacity Provided		Mount	AIC	Fed From						
208/120	3Ø	4	Main Lug Only							200 Amps		Surface	Existing	MDP						
Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #					
1	20	2		HV-HP-4 - Alternate #10	1,550	1,550		1,664			CU-3				2					
3										1,664					4					
5	20	1		Space			180			1,664	CU-4		2	20	6					
9	20	1		EXISTING LOAD		1,920		1,664		2,882	EXISTING LOAD		3	30	10					
11	20	1		EXISTING LOAD			1,920			2,882					12					
13	20	1		EXISTING LOAD	1,920				2,882						14					
15	20	1		EXISTING LOAD		1,920			2,882		EXISTING LOAD		3	30	16					
17	20	1		EXISTING LOAD			1,920			2,882					18					
19	20	1		EXISTING LOAD	1,920				2,882						20					
21	20	1		EXISTING LOAD		1,920			1,920		EXISTING LOAD		1	20	22					
23	15	1		HV-AHU-4 - Alternate #10			840			1,920	EXISTING LOAD		1	20	24					
25	25	2		HV-AHU-4 Heater - Alternate #10	2,080										26					
27					2,080										28					
29				Space							Space				30					
31				Space							Space				32					
33				Space							Space				34					
35				Space							Space				36					
37	100	3		Panel G	9,252						Space				38					
39					4,768						Space				40					
41						5,504					Space				42					
Total Connected Load Phase A:					28,034						Load Description		Watts		Factor	Total	Panel Schedule Notes:			
Total Connected Load Phase B:					23,336						Receptacles < 10,000		10,000		100%	10,000	New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.			
Total Connected Load Phase C:					19,712						Receptacles > 10,000		24,932		50%	12,466	Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.			
Total Connected Load:					69,272 Watts						Lighting Loads		0		125%	0	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.			
Notes:					Arc Fault Circuit Interrupter						Track Lighting		0FI		75W/1F	0		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.		
AF					Ground Fault Circuit Interrupter						Motor Loads		0		100%	0		Contractor may arrange circuits to suit field conditions, but loading between phases shall be +110%.		
GF					Lock Out/Tag Out Breaker						Largest Motor		0		125%	0				
LO					Shunt Trip						Cooling Loads		0		100%	0				
ST					Provide new force in slot						Heating Loads		34,340		100%	34,340				
REF					Re-use existing spare switch lv						Continuous Loads		0		125%	0				
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.						Non-Continuous Loads		0		100%	0				
											Kitchen Equipment Loads		0		100%	0				
											Existing Panel Demand				125%	0				
											Sub-Total:		56,806							
											Total Connected Ampacity:		157.68							
											Total Connected Load %:		79%							

Volts	Phase	Wire	Panel Type	Electrical Panel Schedule DP3						Ampacity Provided		Mount	AIC	Fed From	
208/120	3Ø	4	Main Lug Only							225 Amps		Flush	Existing	MDP	
Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	20	1		Hall Lights	500						Space		1	20	2
3	20	1		Space							Space		1	20	4
5	20	1		Space						4,160	EXISTING LOAD		2	70	6
7	20	1		Lobby Receptacles				4,160					2	70	8
9	70	2		EXISTING LOAD	4,160			4,160			EXISTING LOAD		2	70	10
11						4,160				4,160					12
13	70	2		EXISTING LOAD	4,160			4,160			EXISTING LOAD		2	70	14
15				EXISTING LOAD		4,160			4,160				2	70	16
17	70	2		EXISTING LOAD	4,160			4,160			EXISTING LOAD		2	70	18
19				EXISTING LOAD	4,160			4,160							20
21	70	2		EXISTING LOAD		4,160			4,160		EXISTING LOAD		2	70	22
23				EXISTING LOAD			4,160			4,160					24
25	70	2		EXISTING LOAD	4,160			4,160			EXISTING LOAD		2	70	26
27				EXISTING LOAD		4,160			4,160						28
29	70	2		EXISTING LOAD			4,160			4,160	EXISTING LOAD		2	70	30
31				EXISTING LOAD	4,160			4,160							32
33	70	2		EXISTING LOAD	4,160			4,160			EXISTING LOAD		2	70	34
35				EXISTING LOAD		4,160			4,160						36
37	20	1		Receptacles - Kitchenette	540			1,080			Receptacles - Office 174		1	20	38
39	20	1		Receptacle - Package Locker		500				720	Receptacles - Office 176		1	20	40
41	20	1		Space						600	Automatic Flush Valve		1	20	42
Total Connected Load Phase A:					39,580					Load Description		Total		Panel Schedule Notes:	
Total Connected Load Phase B:					42,820					Receptacles < 10,000		10,000		New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.	
Total Connected Load Phase C:					46,380					Receptacles > 10,000		51,120		Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.	
Total Connected Load:					128,740 Watts					Lighting Loads		500		125%	
Notes:										Track Lighting		DPS		75W/ft	
AF	Arc Fault Circuit Interrupter									Motor Loads		0		100%	
GF	Ground Fault Circuit Interrupter									Largest Motor		0		125%	
LO	Lock Out Breaker									Cooling Loads		0		100%	
ST	Shunt Trip									Heating Loads		0		100%	
PNF	Provide new force in slot									Continuous Loads		0		125%	
REF	Provide existing space fusible switch									Non-Continuous Loads		0		100%	
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.									Kitchen Equipment Loads		0		100%	
										Existing Panel Demand		125%		0	
										Sub-Total:		69,745			
										Total Connected Ampacity:		193.59			
										Total Connected Load %:		86%			

Volts	Phase	Wire	Panel Type	Electrical Panel Schedule DP7						Ampacity Provided	Mount	AIC	Fed From			
208/120	3Ø	4	Main Lug Only							250 Amps			MDP			
Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #	
1	20	1		Hallway Lights	500			1,920			Hall Heaters		1	20	2	
3	20	1		Hall Heaters		1,920			500		Attic Lights		1	20	4	
5	20	1		TV Amplifier Receptacle			180			1,920	EXISTING LOAD		1	20	6	
7	20	1		Laundry Rm. Fans	1,920			1,920			EXISTING LOAD		1	20	8	
9	20	1		Elect. Heater		1,920			1,664		EXISTING LOAD		2	20	10	
11	20	2		EXISTING LOAD			1,664			1,664	EXISTING LOAD		2	70	12	
13				EXISTING LOAD	1,664			5,200			EXISTING LOAD		2	70	14	
15	20	2		EXISTING LOAD		1,664			5,200		EXISTING LOAD		2	70	16	
17				EXISTING LOAD			1,664			5,200	EXISTING LOAD		2	70	18	
19	70	2		EXISTING LOAD	5,200			5,200			EXISTING LOAD		2	70	20	
21				EXISTING LOAD		5,200			6,200		EXISTING LOAD		2	70	22	
23				EXISTING LOAD			5,200			5,200	EXISTING LOAD		3	20	24	
25				EXISTING LOAD	5,200			1,921		1,921	EXISTING LOAD		3	20	26	
27	70	2		EXISTING LOAD		5,200			1,921		EXISTING LOAD		3	20	28	
29				EXISTING LOAD			5,200			1,921	EXISTING LOAD		3	20	30	
31	20	3		EXISTING LOAD	1,921		1,921		1,921		EXISTING LOAD		3	20	32	
33				EXISTING LOAD	1,921		1,921		1,921		EXISTING LOAD		1	20	34	
35				EXISTING LOAD	1,921		1,921		1,921		EXISTING LOAD		1	20	36	
37	30	2		EXISTING LOAD	2,496		1,664			1,664	EXISTING LOAD		2	20	38	
39				EXISTING LOAD		2,496				1,664	EXISTING LOAD		2	20	40	
41				CH-5		600				500	BH-6				42	
Total Connected Load Phase A:					58,647	Load Description					Watts	Factor	DA	New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.		
Total Connected Load Phase B:					38,391	Receptacles + 10,000					10,000					
Total Connected Load Phase C:					34,755	Lighting Loads					9,933	50%	46,967			
Total Connected Load:					111,793	Track Lighting					0	125%	1,250	Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.		
Notes:					AFCI											
					Arc Fault Circuit Interrupter											
					GFI											
					Ground Fault Circuit Interrupter											
					LO											
					Lock Out Breaker											
					ST											
					Shunt Trip											
					Provide new fuse in suitable											
					RNF											
					Re-use existing spare fusible swch											
					EX											
					Blank loads on panel are unknown n shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculation section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.											
					Kitchen Equipment Loads					0	100%	0	Black laminated phosor 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.			
					Existing Panel Demand					125%	0	Contractor may arrange circuits to suit field conditions, but loading between phase shall be +/- 10%.				
					Sub-Total					65,077						
					Total Connected Ampacity					160.63						
					Total Connected Load %:					72%						