STRUCTURAL ENGINEER

ADVANTAGE GROUP 1527 MADISON ROAD, FL 2 CINCINNATI, OH 45206 (513) 396-8900

MEP ENGINEER

ENGINEERED BUILDING SYSTEMS, INC. 515 MONMOUTH STREET, SUITE 201 NEWPORT, KY 41071 (859) 261-0585

CIVIL ENGINEER

BAYER BECKER 1404 RACE STREET, SUITE 204 CINCINNATI, OH 45202 (513) 336-6600

SHEET TITLE

	DRAWING INDEX	<		 		
SHEET #	SHEET TITLE	100% DD 02.22.2023	BID / PERMIT 04.27.2023			SHEET #
GENERAL	DRAWINGS		1	1		STRUCTU
A0.00	COVER					S00 I
A0.01	EGRESS DIAGRAMS					S110
CIVIL/LAI	NDSCAPE DRAWINGS					SI20
C1.00	SITE SURVEY & EXG CONDITIONS					S130
C2.00	PROPOSED SITE PLAN					S140
C3.00	PROPOSED GRADING PLAN					S200
ARCHITE	CTURAL DRAWINGS					S201
AD1.00	BASEMENT DEMOLITION PLAN					\$310
AD1.01	FIRST FLOOR DEMOLITION PLAN					S320
AD1.02	SECOND FLOOR DEMOLITION PLAN					MECHAN
AD1.03	THIRD FLOOR DEMOLITION PLAN					MI.00
AD1.04	FOURTH FLOOR DEMOLITION PLAN					MI.01
AD1.05	FIFTH FLOOR DEMOLITION PLAN					MI.02
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AI.12	SECOND FLOOR PLAN					E1.01
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AI.24	FOURTH FLOOR RCP					PLUMBIN
AI.25	FIFTH FLOOR RCP					P1.00
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A4.00	FINISH SCHEDULE & PLANS					P1.05
A4.10	INT ELEV					P2.00
A4.20	INT ELEV					
A5.00	DETAILS					
A6.00	ASSEMBLIES					
A6.01	ASSEMBLIES					
A6.10	DOOR SCHEDULE					
A6.11	DOOR TYPES & DETAILS					
A6.20	WINDOW AI BI					
A8.00	COLORED ELEVATION				\vdash	
A8.01	COLORED ELEVATION					
A9.01	LEED SPECS					
A9.02	LEED SPECS					
A9.03	LEED SPECS					
A9.04	LEED SPECS					
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STRUC	TURAL DRAWINGS
S00 I	GENERAL STRUCTURAL NOTES
SI 1 0	FOUNDATION PLAN & FIRST FLOOR FR
SI20	FRAMING PLANS
SI30	FRAMING PLANS
S140	FRAMING PLANS
S200	STRUCTURAL ELEVATIONS
S201	STRUCTURAL ELEVATIONS
\$310	FOUNDATION SECTIONS
S320	FRAMING SECTIONS
MECHA	NICAL DRAWINGS
MI.00	MECHANICAL PLAN - BASEMENT
MI.01	MECHANICAL PLAN - FIRST FLOOR
MI.02	MECHANICAL PLAN - SECOND FLOOR
MI.03	MECHANICAL PLAN - THIRD FLOOR
MI.04	MECHANICAL PLAN - FOURTH FLOOR
MI.05	MECHANICAL PLAN - ATTIC
MI.06	MECHANICAL PLAN - ROOF
M2.00	MECHANICAL DETAILS
M2.01	MECHANICAL DETAILS
ELECTR	
E1.00	ELECTRICAL PLAN - BASEMENT
E1.01	ELECTRICAL PLAN - FIRST FLOOR
E1.02	ELECTRICAL PLAN - SECOND FLOOR
E1.03	ELECTRICAL PLAN - THIRD FLOOR
E1.04	ELECTRICAL PLAN - FOURTH FLOOR
E1.05	ELECTRICAL PLAN - ATTIC
E1.06	ELECTRICAL PLAN - ROOF
E2.00	ELECTRICAL DETAILS
E2.01	ELECTRICAL DETAILS
E2.02	ELECTRICAL DETAILS
PLUMB	ING DRAWINGS
P1.00	PLUMBING PLAN - BASEMENT
P1.01	PLUMBING PLAN - FIRST FLOOR
P1.02	PLUMBING PLAN - SECOND FLOOR
P1.03	PLUMBING PLAN - THIRD FLOOR
P1.04	PLUMBING PLAN - FOURTH FLOOR
P1.05	PLUMBING PLAN - ATTIC
P2.00	PLUMBING DETAILS
	1

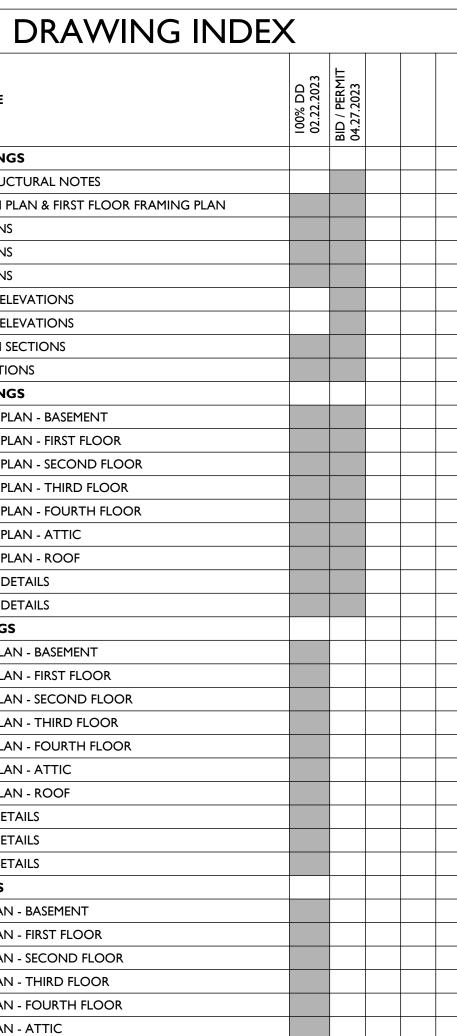
1804 REPUBLIC STREET CINCINNATI, OH 45202 FINDLAY FLATS RENOVATION

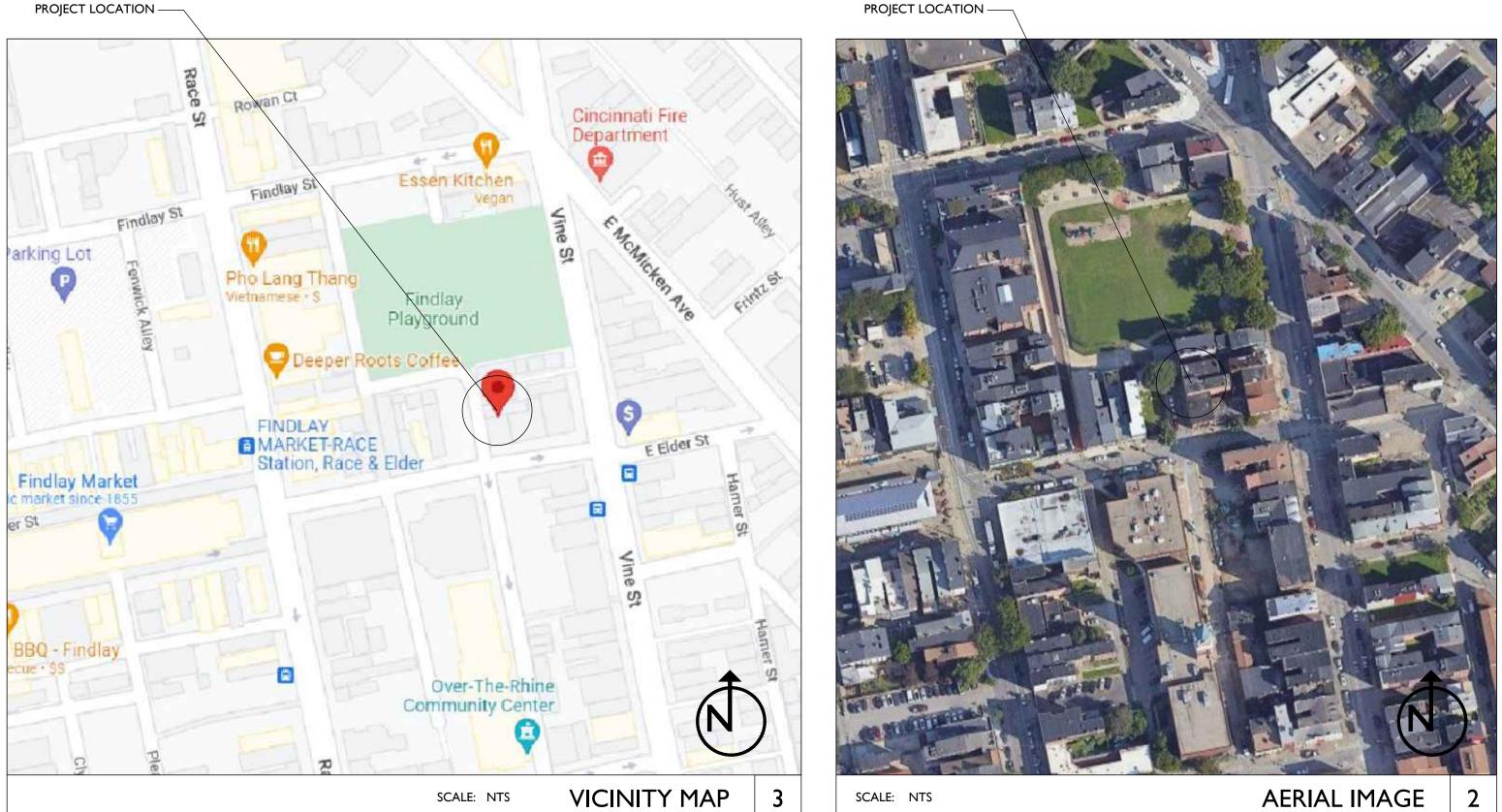
ARCHITECT

CLIENT/DEVELOPER

PLATTE ARCHITECTURE + DESIGN, LLC 1810 CAMPBELL ALLEY, STE 300 CINCINNATI, OH 45202 (513) 871-1850

3CDC 1203 WALNUT STREET CINCINNATI, OH 45202 (513) 621-4400





TYPICAL ABBREVIATIONS							
ADJ	ADJACENT	EXG	EXISTING				
A.F.F.	ABOVE FINISH	EXT	EXTERIOR				
	FLOOR	FDC	FIRE DEPARTMENT				
ALT	ALTERNATE		CONNECTION				
ALUM	ALUMINUM	FDN	FOUNDATION				
APPROX	APPROXIMATELY	F.E.	FIRE EXTINGUISHER				
APT	APARTMENT	F.F.E.	FINISH FLOOR				
BD	BOARD		ELEVATION				
BLDG	BUILDING	FLR	FLOOR				

L	ALUI	ALUMINUM	FUN	FOUNDATION		CODE
l	APPROX	APPROXIMATELY	F.E.	FIRE EXTINGUISHER	O.C.	ON CENTER
l	APT	APARTMENT	F.F.E.	FINISH FLOOR	OPNG	OPENING
l	BD	BOARD		ELEVATION	OPP	OPPOSITE
l	BLDG	BUILDING	FLR	FLOOR	O/	OVER
	C.L.	CENTER LINE	FTG	FOOTING	PLWD	PLYWOOD
	C.J.	CONTROL JOINT	G.C.	GENERAL	PLUMB	PLUMBING
	CLG	CEILING		CONTRACTOR	PT.	PRESSURE TREATED
l	CLR	CLEAR DIMENSION		GYPSUM	RCP	REFLECTED CEILING
	C.M.U.	CONCRETE	H.M.	HOLLOW METAL		PLAN
		MASONRY UNIT	HR	HOUR	REQ	REQUIRED
	COL.	COLUMN	HORIZ	HORIZONTAL	REV	REVISED/REVISION
	CONC	CONCRETE	HVAC	HEATING,		ROUGH OPENING
l	CONT	CONTINUOUS/		VENTILATION, &		RIGHT OF WAY
		CONTINUED		AIR CONDITIONING	SECT	SECTION
	CONTR	CONTRACTOR	INCL	INCLUDED/	SIM	SIMILAR
l	DIAG	DIAGONAL		INCLUDING	SF	SQUARE FEET
		DIAMETER	INFO	INFORMATION		SPECIFICATION
		DIMENSION(S)	INSUL	INSULATED/		STRUCTURAL
	D.O.T.E.			INSULATING	T.O. or T/	
		TRANSPORTATION	INT	INTERIOR	T&G	TONGUE &
		& ENGINEERING	L.L.	LIVE LOAD		GROOVE
	D.L.	DEAD LOAD	MATL	MATERIAL	TYP	TYPICAL
	D.S.	DOWNSPOUT	MECH	MECHANICAL	U.N.O.	UNLESS NOTED
	DTL(S)	DETAIL(S)	MEP	MECHANICAL,		OTHERWISE
	DWG(S)			ELECTRICAL &	V.B.	VAPOR BARRIER
	EA	EACH		PLUMBING		VERTICAL
	ELEC	ELECTRICAL	MIN	MINIMUM		VERIFY IN FIELD
	ELEV(S)		MAX	MAXIMUM	W/	WITH
	E.J.	EXPANSION JOINT	MANUF	MANUFACTURER		WITHOUT
	EQ	EQUAL	N/A	NOT APPLICABLE	WD	WOOD

N.I.C. N.I.S. N.T.S. OBC

NOT IN CONTRACT NOT IN SCOPE NOT TO SCALE OHIO BUILDING CODE

TYPICAL SYMBOLS

\mathbb{N}	NORTH ARROW
	EGRESS WINDOW
01	KEYNOTE
	CENTERLINE TAG
\$ <u>X'-X"</u>	FLOOR ELEVATION TAG
	REVISION CLOUD TAG
	wg # leet # ELEVATION TAG
	wg # heet #
A4.01 X	INTERIOR ELEVATION TAG
	wg # heet # SECTION CUT TAG
	wg # heet # DETAIL CALLOUT
, ,	/

PROJECT DESCRIPTION

THIS PROJECT IS THE REHABILITATION/RENOVATION OF AN EXISTING HISTORIC RESIDENTIAL BUILDING. 1804 REPUBLIC IS A 4 STORY BUILDING WITH A FULL BASEMENT AND ATTIC. THE BASEMENT WILL REMAIN UNOCCUPIED WITH THE EXCEPTION OF MECHANICAL EQUIPMENT. ALL FLOORS I-4 WILL REMAIN R-2 USE. THE ATTIC WILL REMAIN UNOCCUPIED.

PROJECT LOCATION -



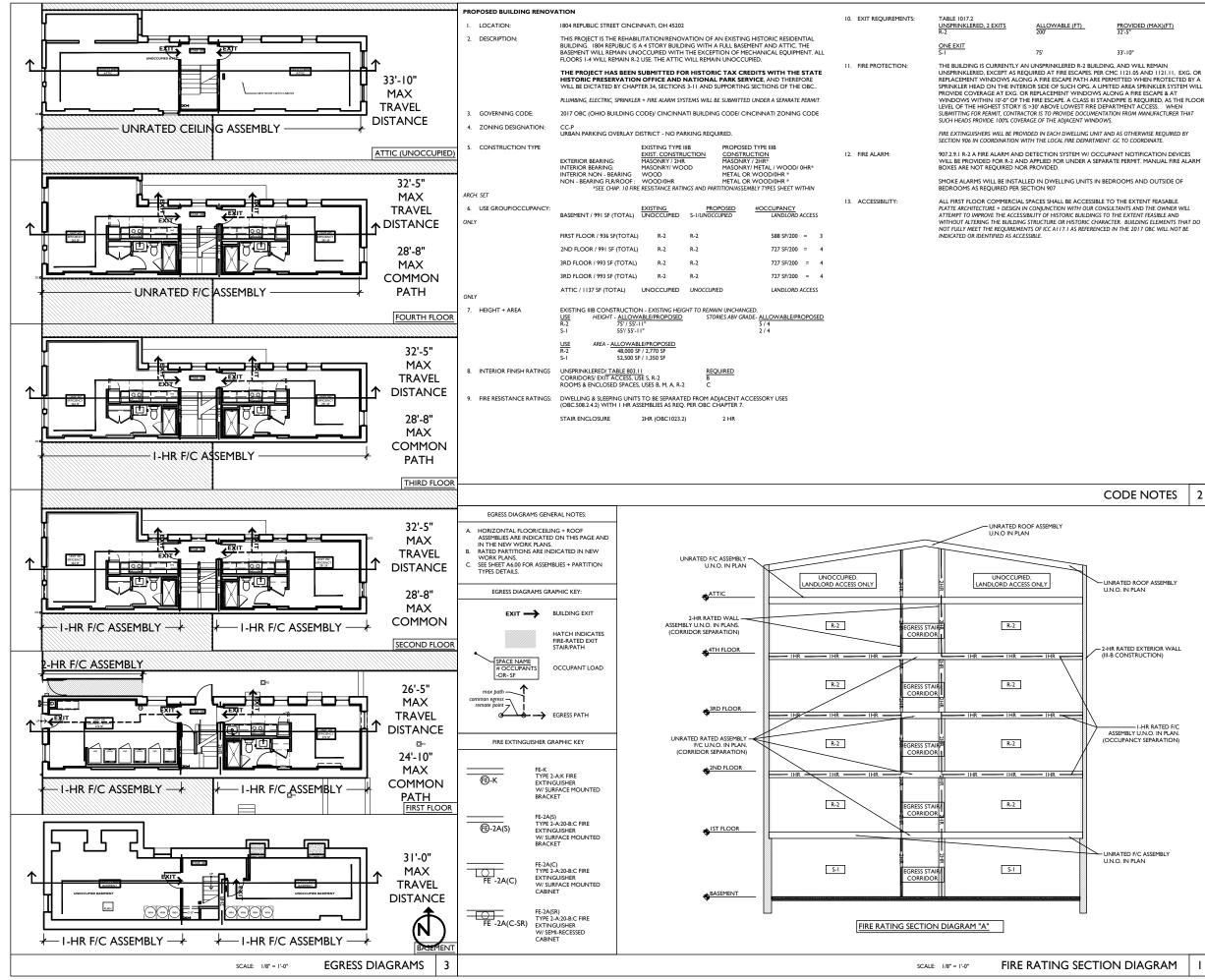
			architecture + design	I810 CAMPBELL ALLEY, SUITE 300 CINCINNATI,	WWW.PLATTEDESIGN.COM T: 513.871.1850 F: 51	
	111312 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A CONSTRUCTION OF		PLATTE Service 10833	FRED ARCHINE	44444477788888888
<u>⁄0</u>	20 Revi	EXP gress D 23.04.2 sions	T PLATTE DATE 12. ates 28 - BID/PI	E 10833 31.2021 ERMIT		
				2		
	OSED PROJECT:	NOVATION FOR	804 REPUBLI	NCINNATI, OH 45202	JDLAY FLATS	

Job No: 22042

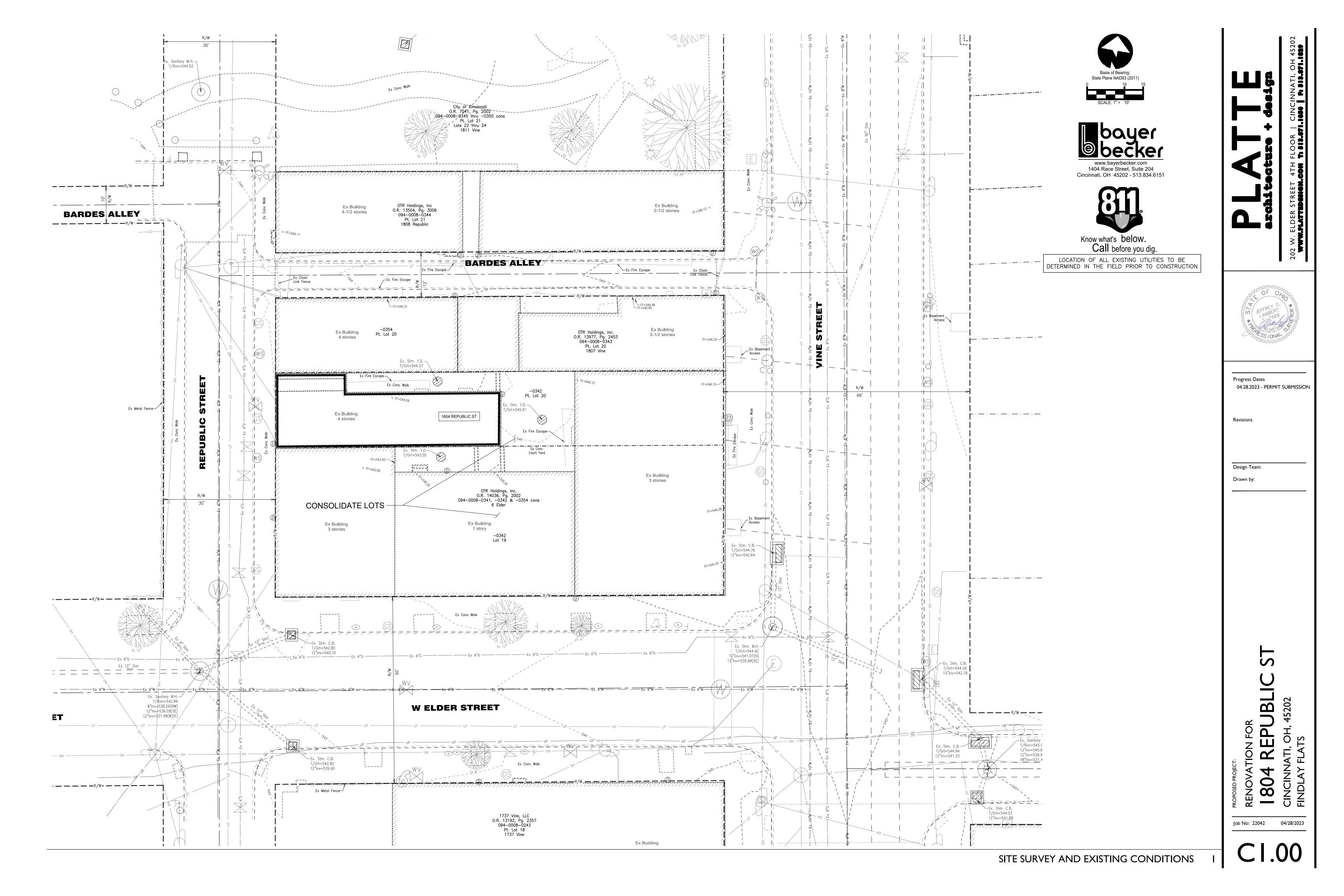
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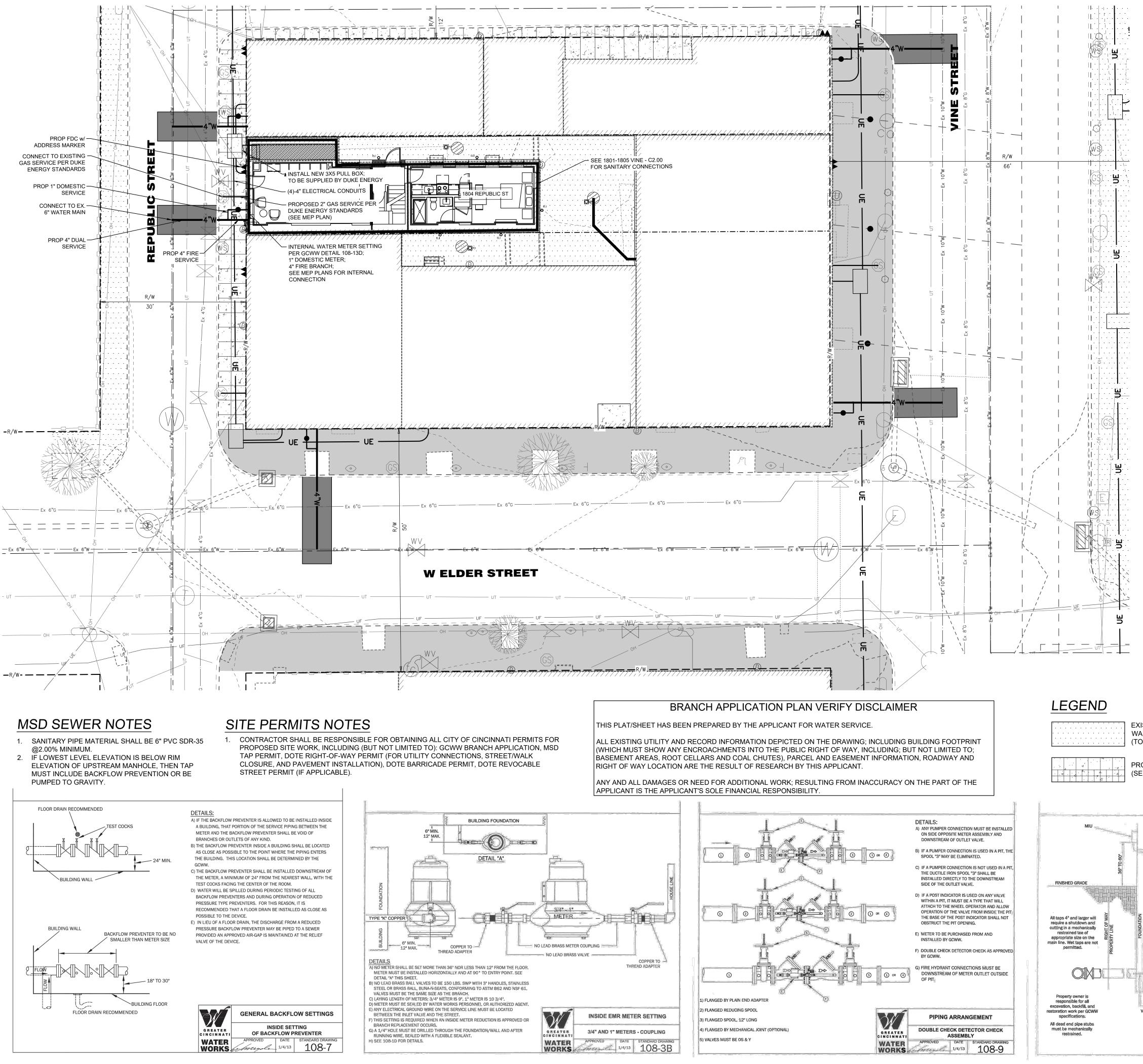
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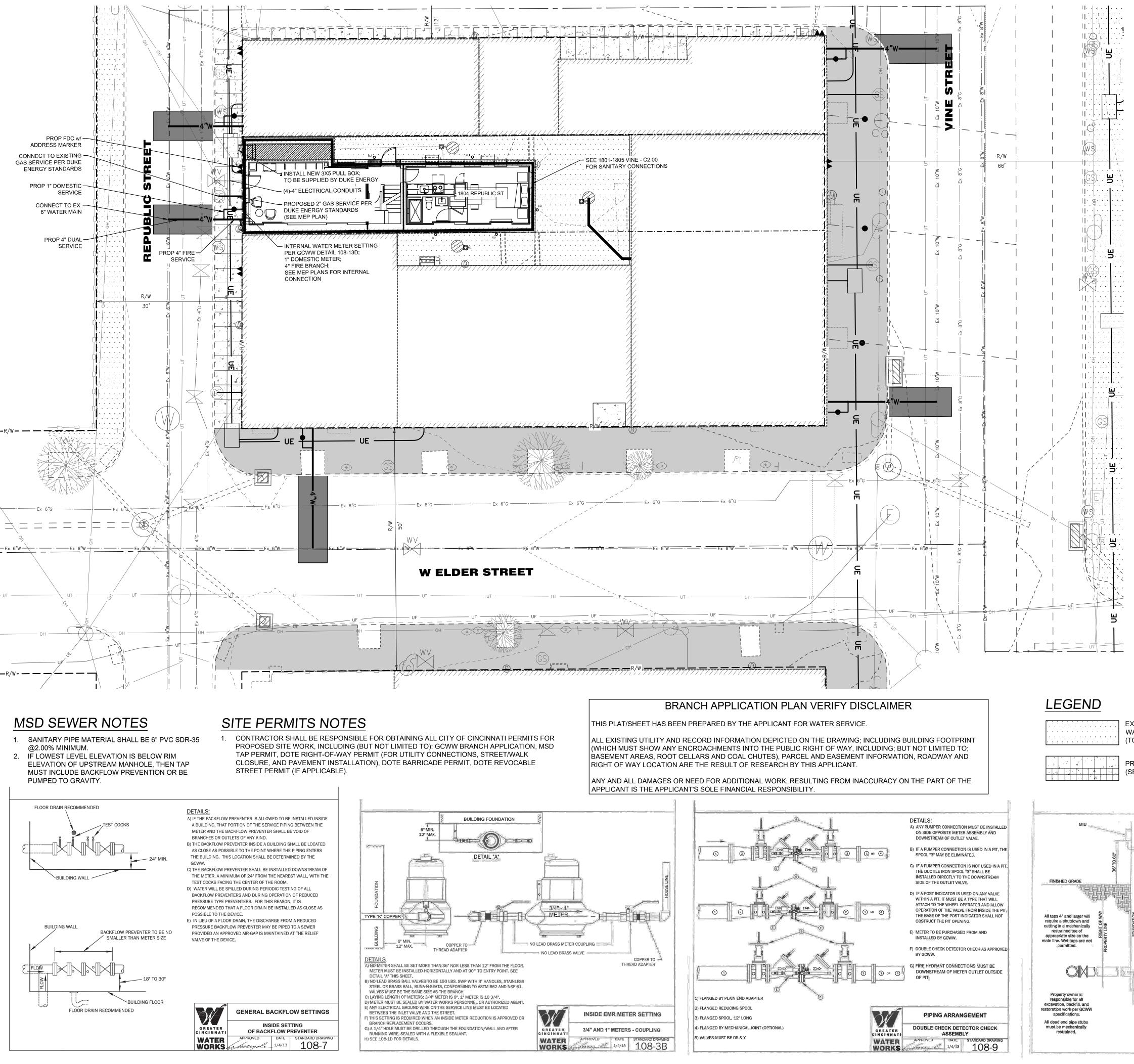
OH 45202 3.871.1829

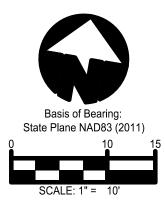
















MAINTENANCE OF TRAFFIC NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND CURRENT STANDARD DRAWINGS, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE C&M SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH PART 7 OF OMUTCD. LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-97.10, MT-99.10.
- LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF FLAGGERS AND SAFETY CONES, AS DIRECTED BY THE CITY ENGINEER.
- THE CONTRACTOR MUST COORDINATE THE WORK SO AS TO NOT INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES.
- IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THAT THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN WILL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE CITY OF CINCINNATI DOTE.
- THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE
- OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED WORK SHALL BE PLATED OR BACKFILLED AT THE DIRECTION OF THE COUNTY ENGINEER THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.

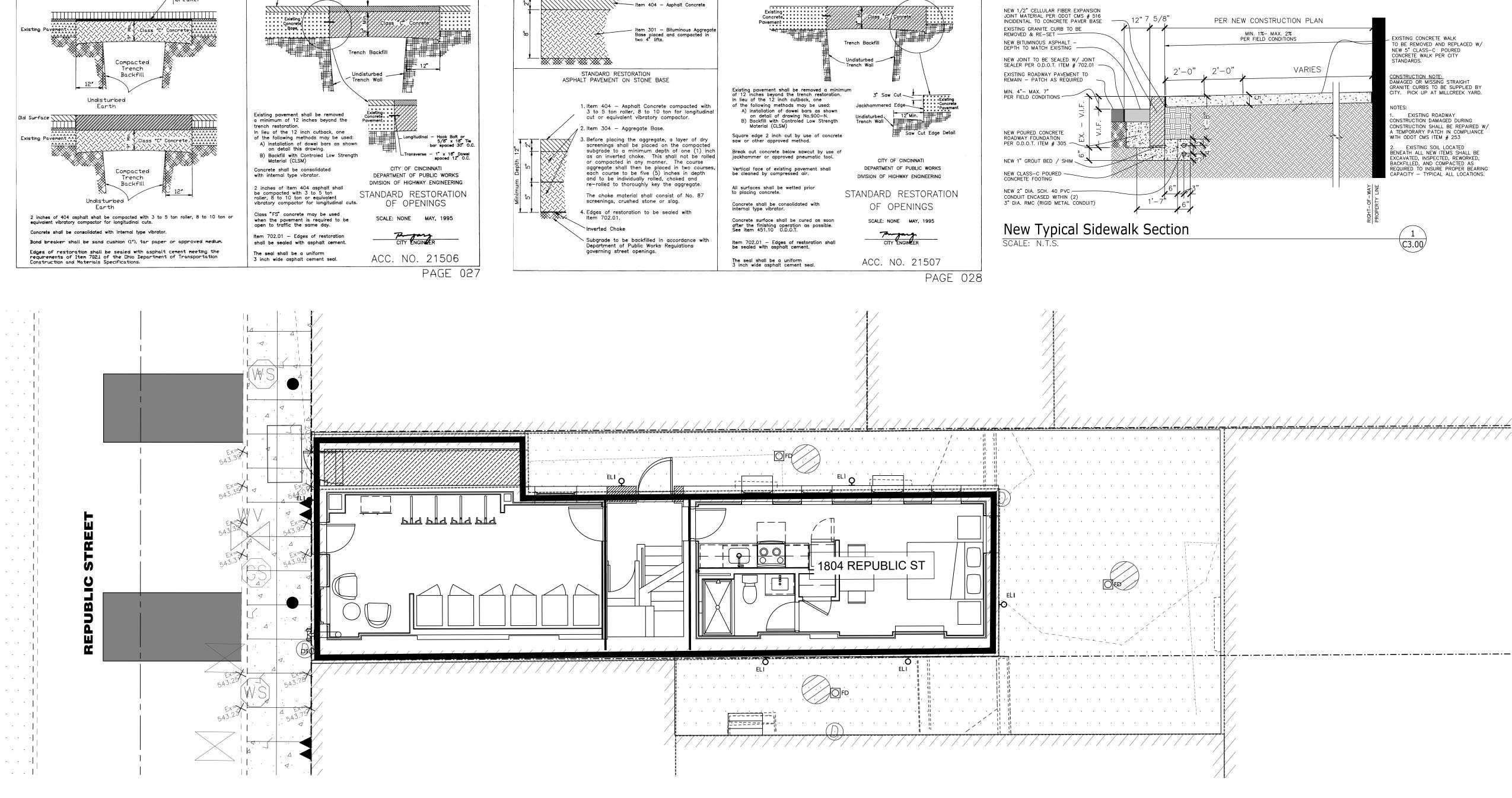
GCWW WATER MAIN NOTES

- ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES, HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF GREATER CINCINNATI WATER WORKS. THE MOST RIGID SPECIFICATIONS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE PROJECT SPECIFICATIONS.
- ALL WATER FACILITIES ON THIS PROJECT ARE TO BE PRIVATE. BACKFILL SHALL BE CLASS A WHEN MAIN IS FIVE (5) FEET OR GREATER FROM EXISTING PUBLIC CURB. LESS THAN FIVE (5) FEET FROM EXISTING PUBLIC CURB, UNDER CURB OR EXISTING PUBLIC PAVEMENT BACKFILL SHALL BE CONTROLLED DENSITY FILL.
- WATER MAINS SHALL MAINTAIN A MINIMUM COVER OF FOURTY TWO (42) INCHES. A MINIMUM CLEAR DISTANCE OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SHALL BE MAINTAINED BETWEEN SANITARY AND/OR STORM SEWERS AND WATER MAINS.
- SANITARY AND STORM SEWERS THAT CROSS WATER MAINS SHALL BE LOCATED SUCH THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- PRIVATE WATER MAINS BEYOND THE METER PIT MAY BE C900 DR18 FOR WORKING PRESSURES LESS THAN 150 PSI. FOR DESIGN PRESSURES GREATER THAN 150 PSI, DUCTILE IRON PRESSURE CLASS 350 OR C900 DR 14 SHALL BE USED.
- SERVICE PIPING SMALLER THAN THREE (3) INCHES SHALL BE SEAMLESS COPPER FLEXIBLE WATER TUBING, ASTM B 88, TYPE K, PRESSURE CLASS 250.

ISTING CONCRETE ALK OR DRIVE D REMAIN)			BY OTH		
OPOSED CONCRETE EE DETAIL 1/C3.00)	WALK		IN KIND	E & REPLACE EX PAVEMEN PER DOTE STANDARDS IEET C3.00 FOR DETAILS)	IT
1/4" HOLE A) B) C) D) E) F) G)	ETAILS: SEE 108-1C, 1D & SEE 108-1C, 1D & SEE 108-9 FOR PII CHECK ASSEMBLY. ANY PUMPER CON OUTLET VALVE. MIU MUST BE INSI DETECTOR CHECK ANY WALL AND FAC DETECTOR CHECK GCWW BLOCKING MUST B	NECTION MUST BE INSTALLED ON THI CHECK METER ASSEMBLY AND DOWN TALLED 36" TO 60" ABOVE FINISHED O METER MUST BE INSTALLED A MINIM DING INTO THE ROOM. METER TO BE PURCHASED FROM AN BE UNDER VALVES.	ONLY BLE CHECK		
Procedures	WORKS	<u>1(</u> 1(08-12A		_

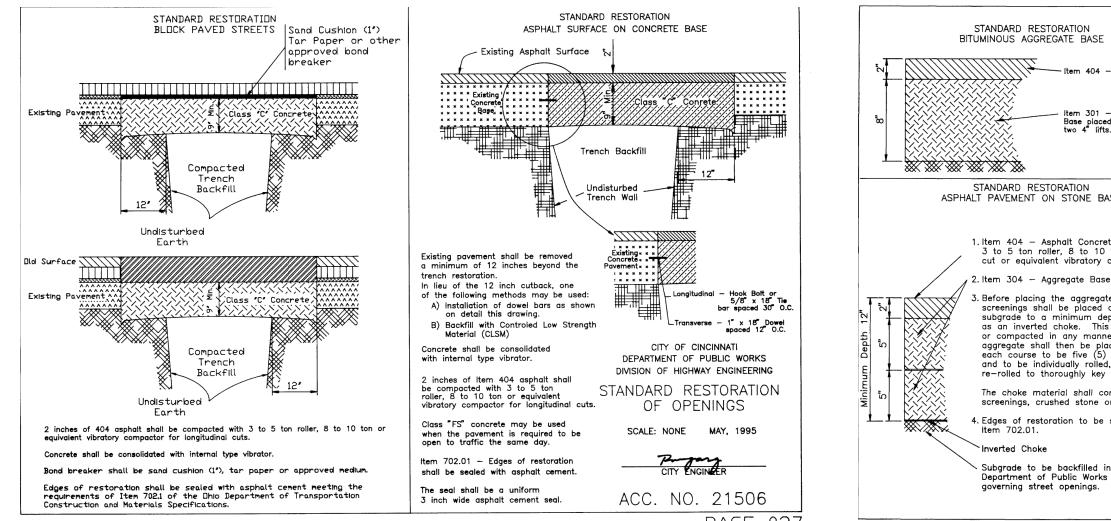
Progress Dates 04.28.2023 - PERMIT SUBMISSION Revisions Design Lean Drawn by: EFS S UB ഹ 4 Δ S 7 ш J 80 ŪZ FINDI Υ Job No: 22042 04/28/2023

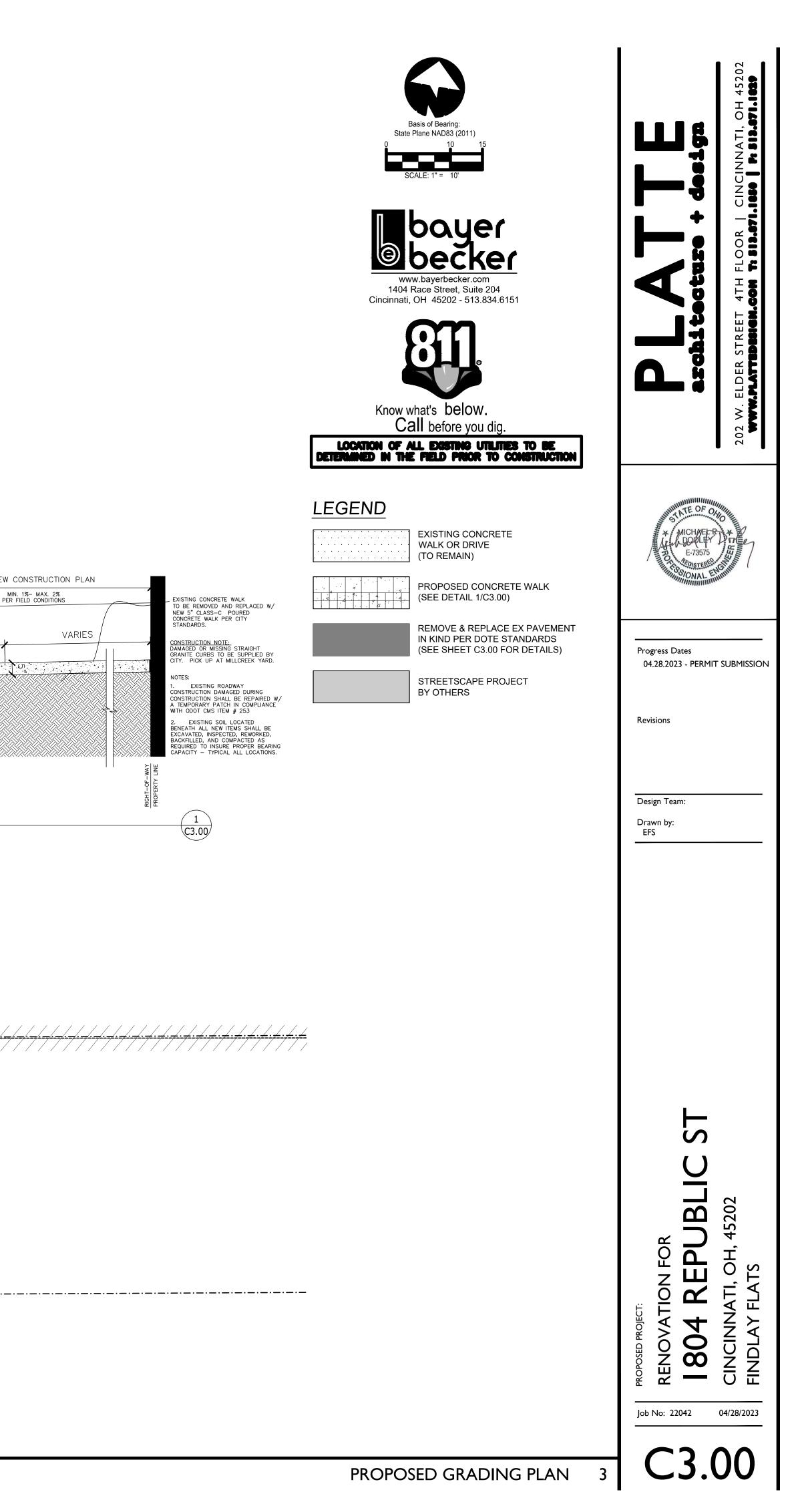
PROPOSED SITE PLAN 2



STANDARD RESTORATION

CONCRETE PAVEMENT





- 2. EXG CONDITIONS
- 2.1 REMOVE GATE AND/OR FENCE. 2.2 REMOVE BEAM PER STRUCTURAL. PROVIDE SHORING AS REQ.
- 2.3 EXG. WINDOW WELL. REMOVE METAL GRATE & TRASH / DEBRIS. PREPARE OPENING FOR LEAN CONCRETE INFILL. SEE NEW WORK PLANS AND STRUCT.
- 3. CONCRETE
- 3.1 CONCRETE OR STONE STEPS TO REMAIN3.2 CONCRETE SLAB TO REMAIN.
- 4. MASONRY
- 4.1 REMOVE NON-HISTORIC MASONRY INFILL AT HISTORIC DOOR/WINDOW OPENING..
- 4.2 CHIMNEY TO REMAIN
- 4.3 REMOVE FAUX STONE CLADDING.
 4.4 REMOVE PORTION OF NON-HISTORIC MASONRY WALL BACK TO ORIGINAL MASONRY CHIMNEY.
- 5. METALS
- 5.1 REMOVE GUARDRAIL/HANDRAIL.5.2 FIRE ESCAPE TO REMAIN.

6. WOOD, PLASTICS, AND COMPOSITES

- 6.1 WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC BANISTER/GAURDRAIL. REMOVE NON-HISTORIC FINISH ON TREADS.
- 6.2 REMOVE NON-HISTORIC STAIR & GUARD/HANDRAILS ENTIRELY.
- PROVIDE SHORING AS REQ'D. SEE STRUCT DWGS.
- 7. THERMAL AND MOISTURE PROTECTION
- 7.1 BOX GUTTER TO REMAIN. 7.2 REMOVE ROOF ACCESS HATCH.
- 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED
- 8. OPENINGS
- 8.1 REMOVE PORTION OF EXG WALL FOR NEW WINDOW/DOOR. SEE

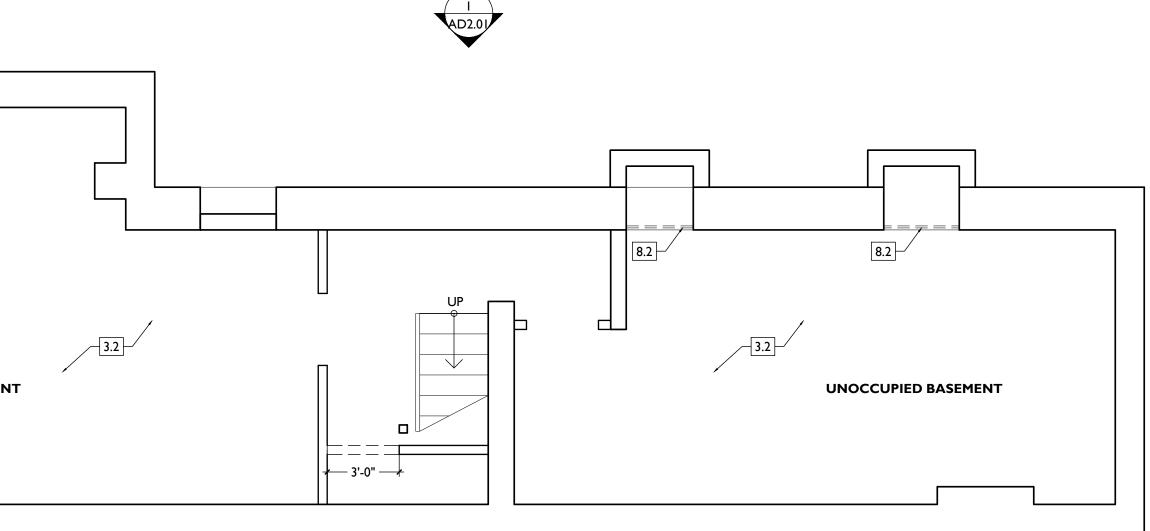
PROPOSED DWGS.

4D2.00

- 8.2 EXG BASEMENT WINDOW OPENING. REMOVE PLEXIGLASS GLAZING AND PREPARE OPENING FOR CMU INFILL. SEE NEW WORK PLANS AND STRUCT. 8.3 REMOVE NON-HISTORIC WINDOW, RETAIN & DO NOT DAMAGE
- EXG HISTORIC FRAME/ BRICK MOULD. ALL WINDOWS, THIS ELEVATION, U.N.O.
- 8.4 HISTORIC CORNICE WINDOWS TO REMAIN.

UNOCCUPIED BASEMENT





		-	
DEMO W	ORK GRAPHIC KEY:		
	KEYNOTE EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL TO REMAIN EXG WALL/ELEMENT TO BE REMOVED EXG DOOR & FRAME TO BE REMOVED EXG VINDOW TO BE REMOVED EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED	PLATA architecture + design	1810 CAMPBELL ALLEY, SUITE 300 CINCINNATI, OH 45202 WWW.PLATTEDESIGN.COM T: 513.871.1850 F: 513.871.1829
			PLAIIE 108333 10833 10833 10833 10833 10833 10833 10833 10833 10833 1083





KURT PLATTE 10833 EXP DATE 12.31.2021

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: TB, AM

REPUBLIC

804

Job No: 22042 04.28.2023

FOR

ENOVATION

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45202

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CINCINNA⁻ FINDLAY FL

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2023.04.28 - BID/PERMIT

Progress Dates

Revisions



- 2. EXG CONDITIONS
- 2.1 REMOVE GATE AND/OR FENCE. 2.2 REMOVE BEAM PER STRUCTURAL. PROVIDE SHORING AS REQ.
- 2.3 EXG. WINDOW WELL. REMOVE METAL GRATE & TRASH / DEBRIS. PREPARE OPENING FOR LEAN CONCRETE INFILL. SEE NEW WORK PLANS AND STRUCT.
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- 6. WOOD, PLASTICS, AND COMPOSITES
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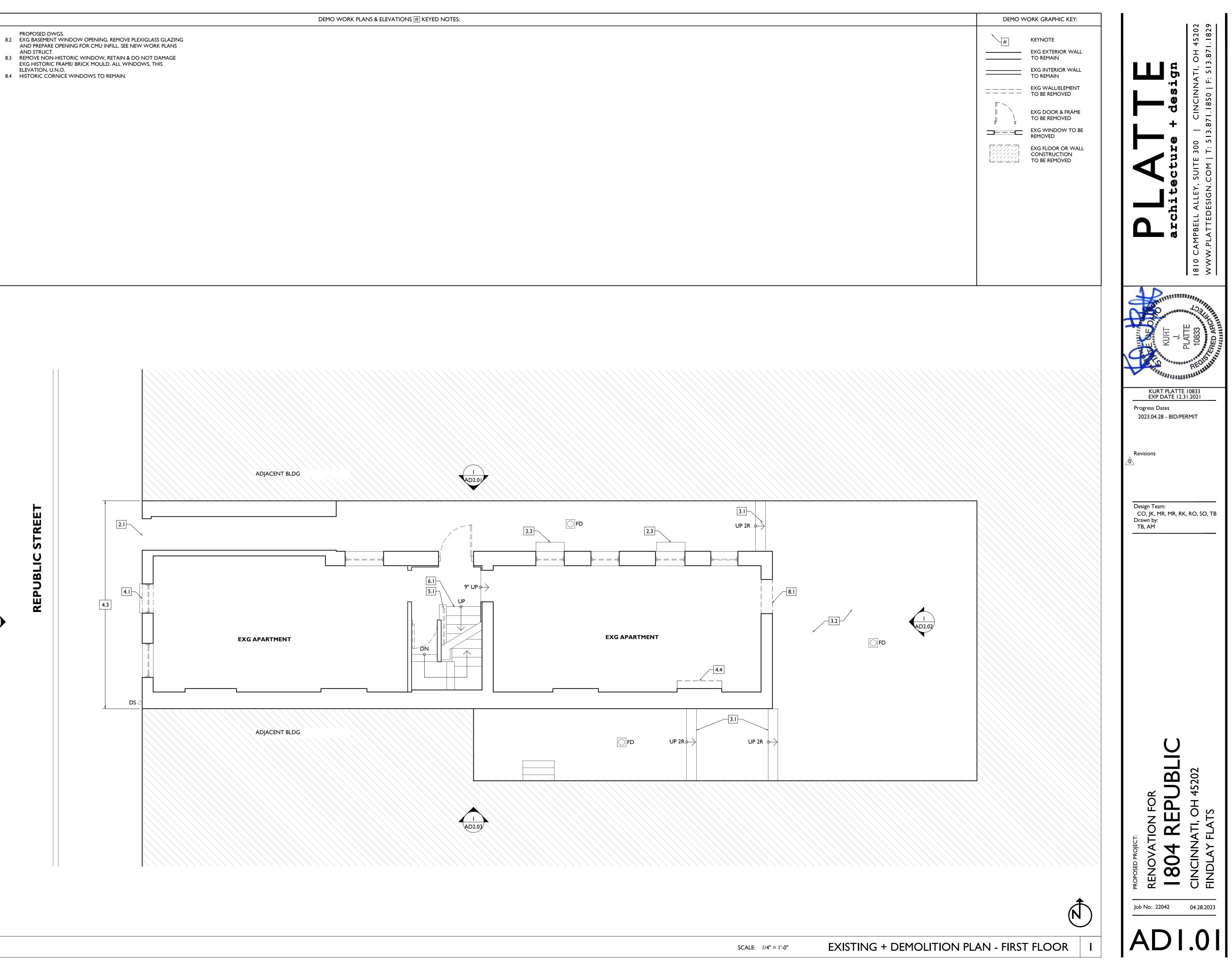
PROPOSED DWGS.

- AND STRUCT. 8.3 REMOVE NON-HISTORIC WINDOW, RETAIN & DO NOT DAMAGE
- ELEVATION, U.N.O.
- 8.4 HISTORIC CORNICE WINDOWS TO REMAIN.



STREET

REPUBLIC





- EXG CONDITIONS
 REMOVE GATE AND/OR FENCE.
 REMOVE BEAM PER STRUCTURAL. PROVIDE SHORING AS REQ.
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- 4. MASONRY

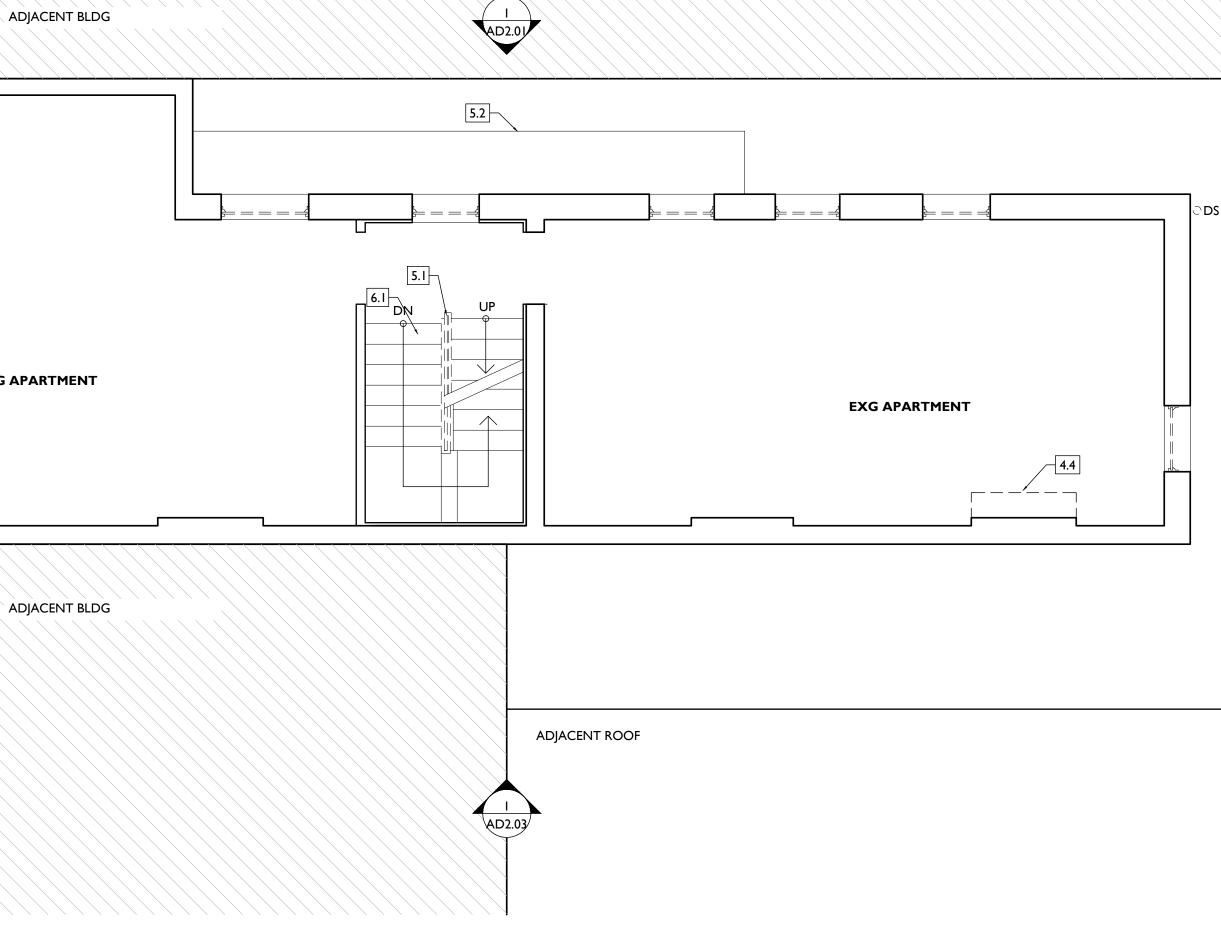
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AD2.00

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- 8.4 HISTORIC CORNICE WINDOWS TO REMAIN.

EXG APARTMENT DSC





		ORK GRAPHIC KEY: KEYNOTE EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL TO REMAIN EXG WALL/ELEMENT TO BE REMOVED EXG DOOR & FRAME TO BE REMOVED EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED	TE TE TE TE TE TE TE TE TE TE
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EXISTING + DEMOLITION PLAN	- SECONE	PELOOR I	BOOEDINOEDI RENOVATION FOR RENOVATION FOR RENOVATION FOR BOAT RENOVATION BOAT RENOVATION BOAT RENOVATION BOAT RENOVATION BOAT DA FERO RENOVATION FOR CINCINNATI, OH 45202 FINDLAY FLATS CONCINNATI, OH 45202 FINDLAY FLATS

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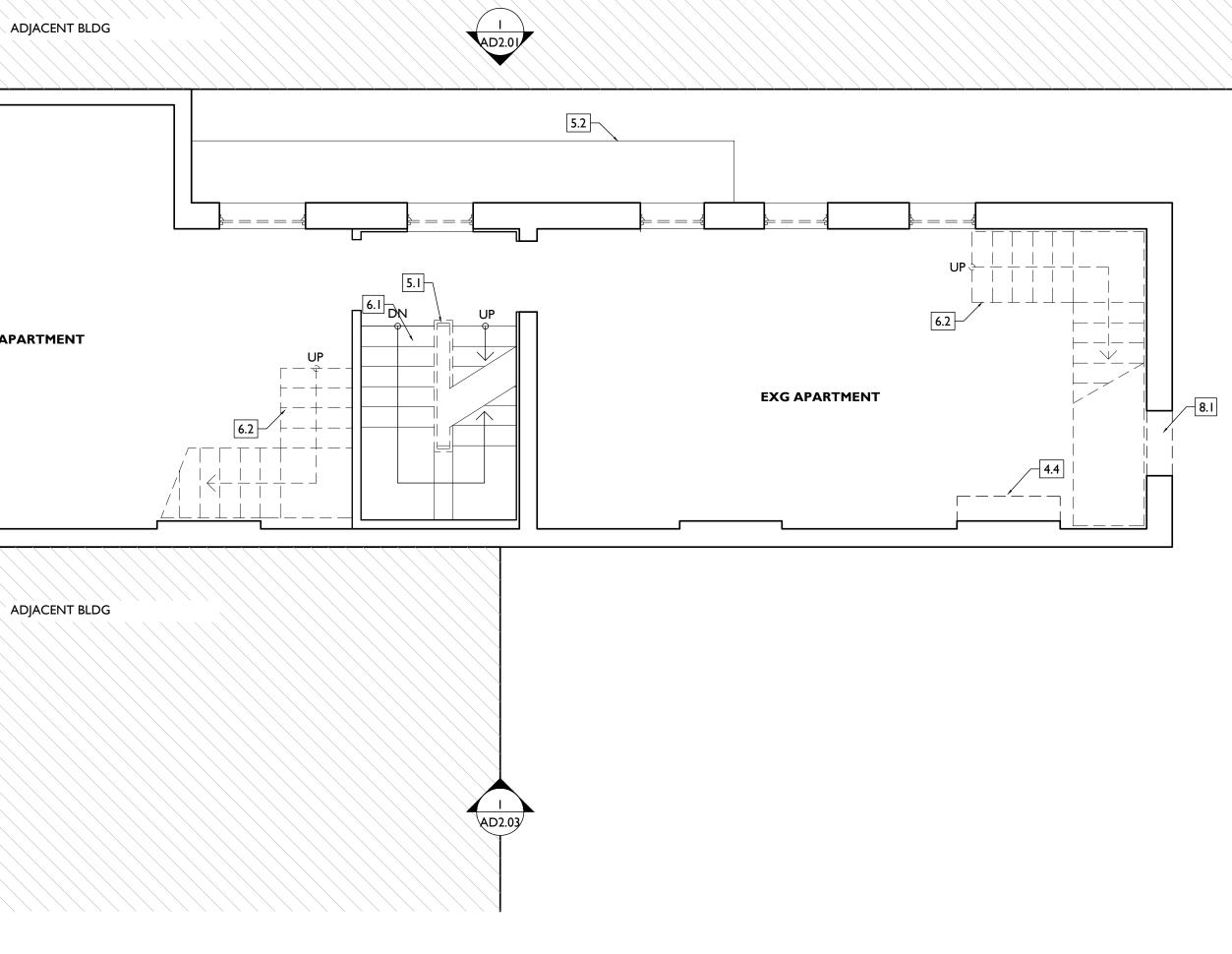
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CINCINNATI, OH 45202 FINDLAY FLATS 04.282023		10833 1.2021	I810 CAMPBELL ALLEY, SUITE 300 CINCINNATI, OH 45202 WWW.PLATTEDESIGN.COM T: 513.871.1850 F: 513.871.1829

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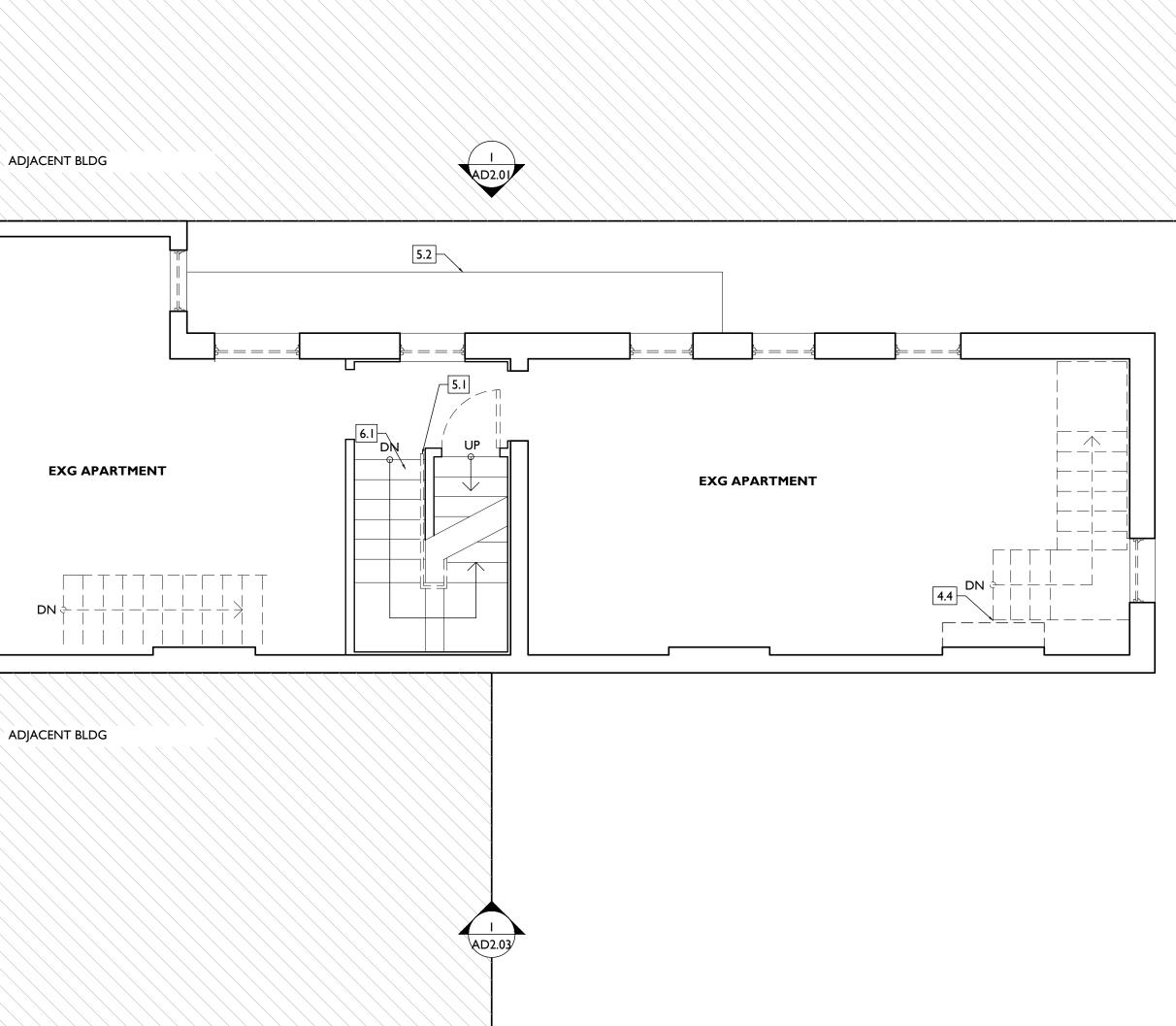
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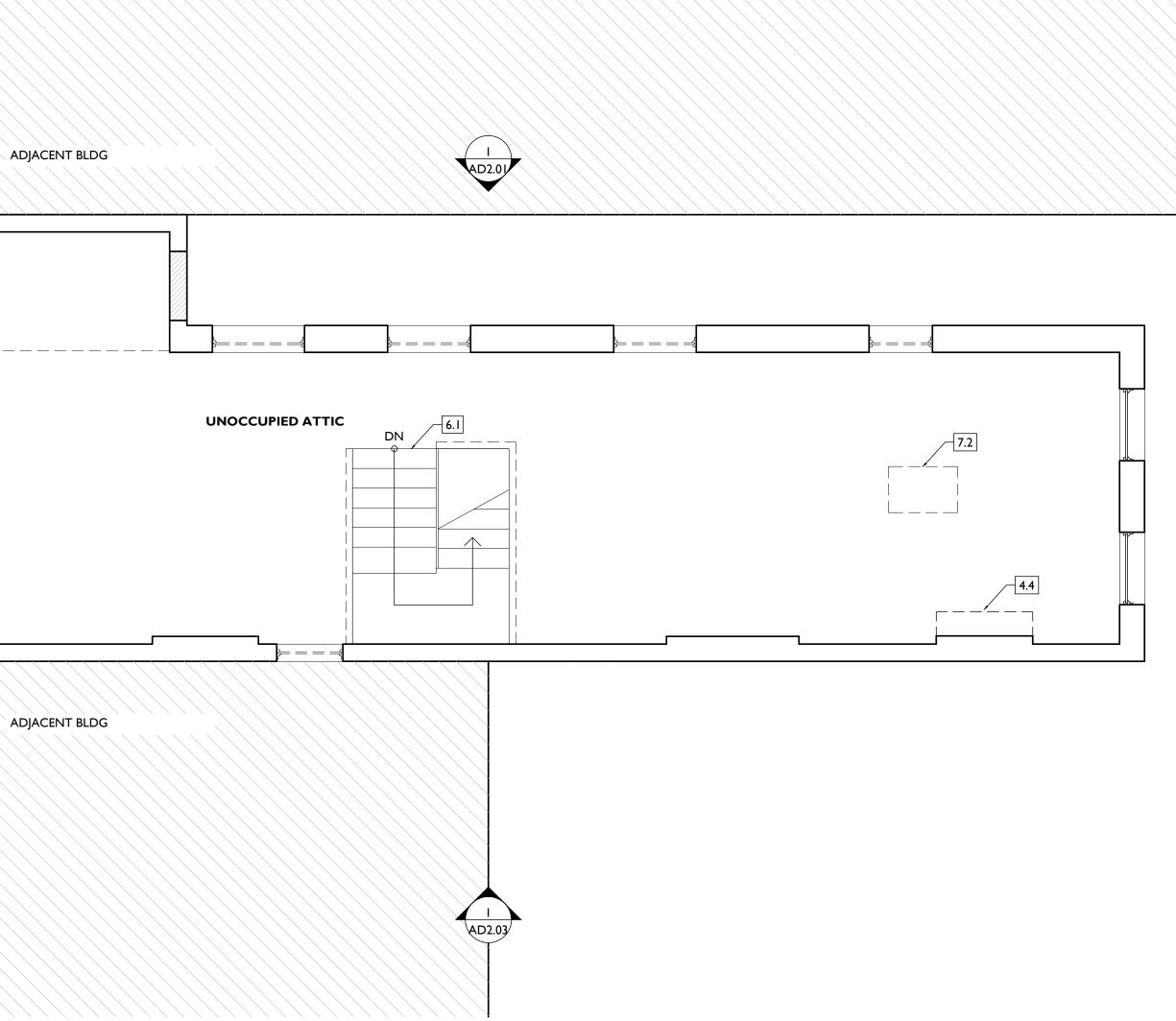
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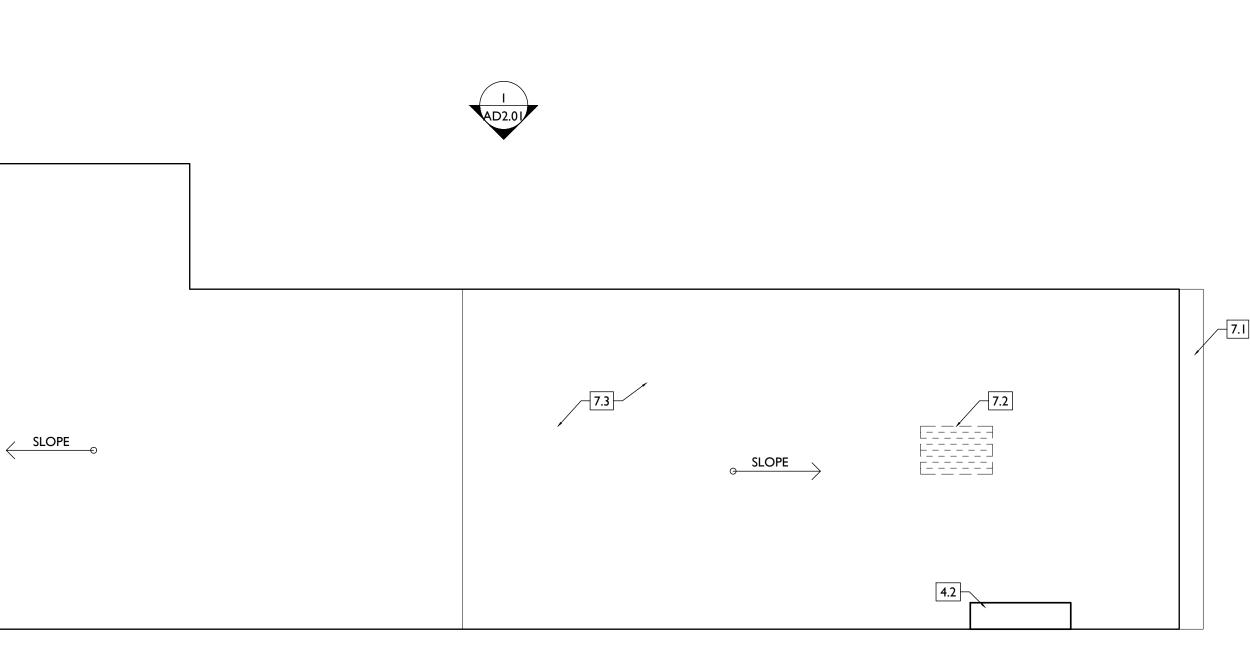
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Job No: 22042 04.28.2023

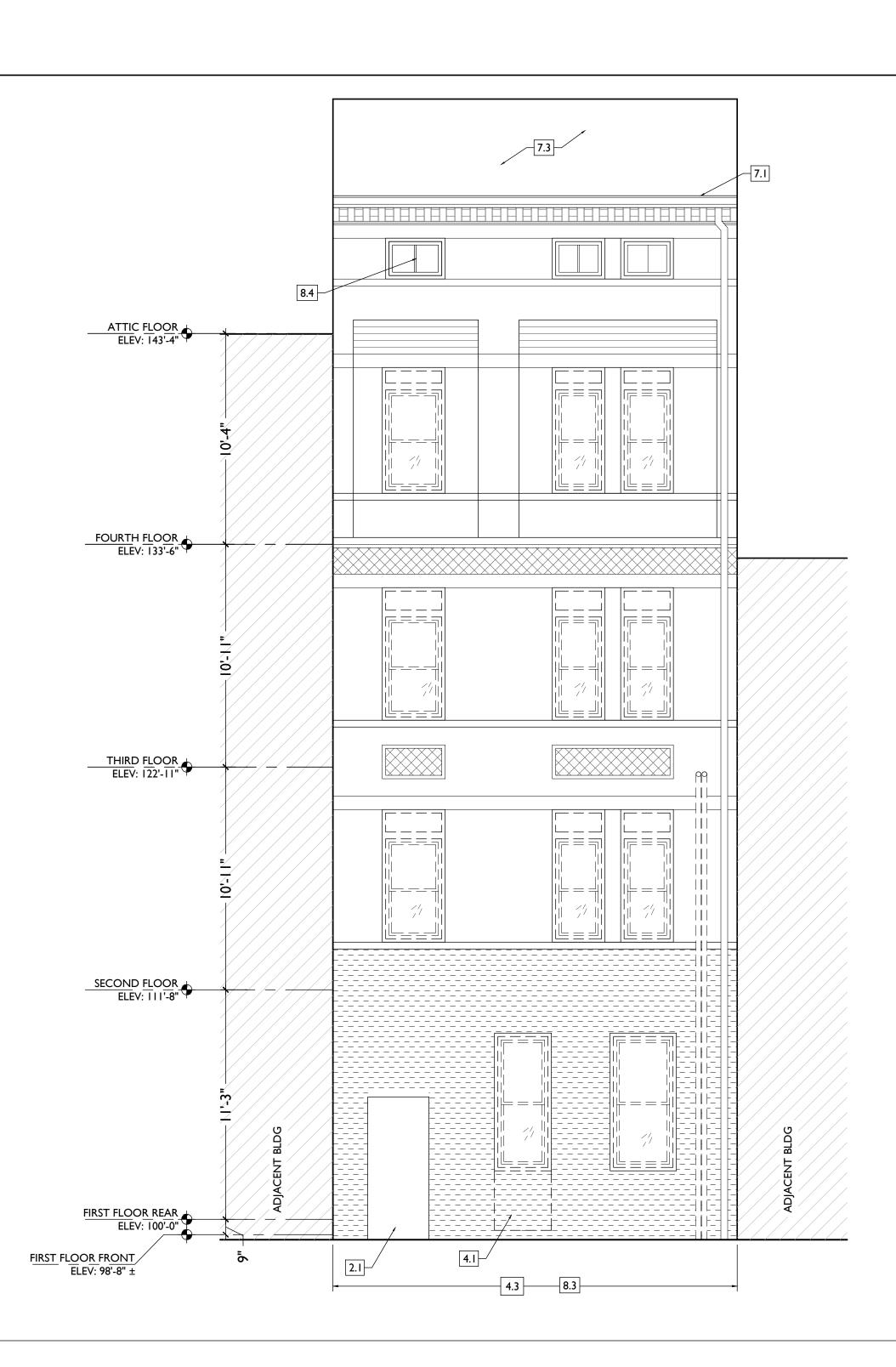
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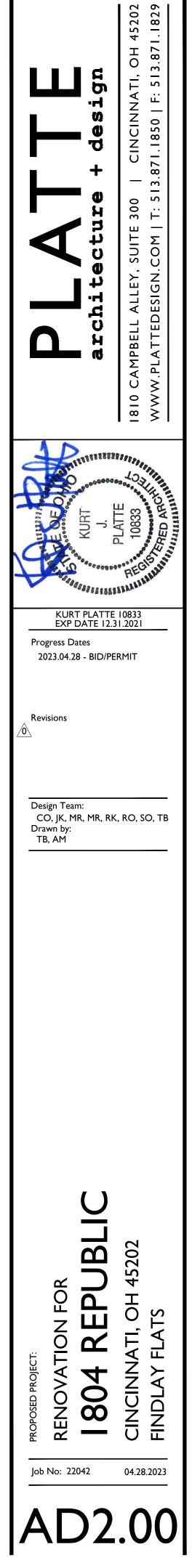
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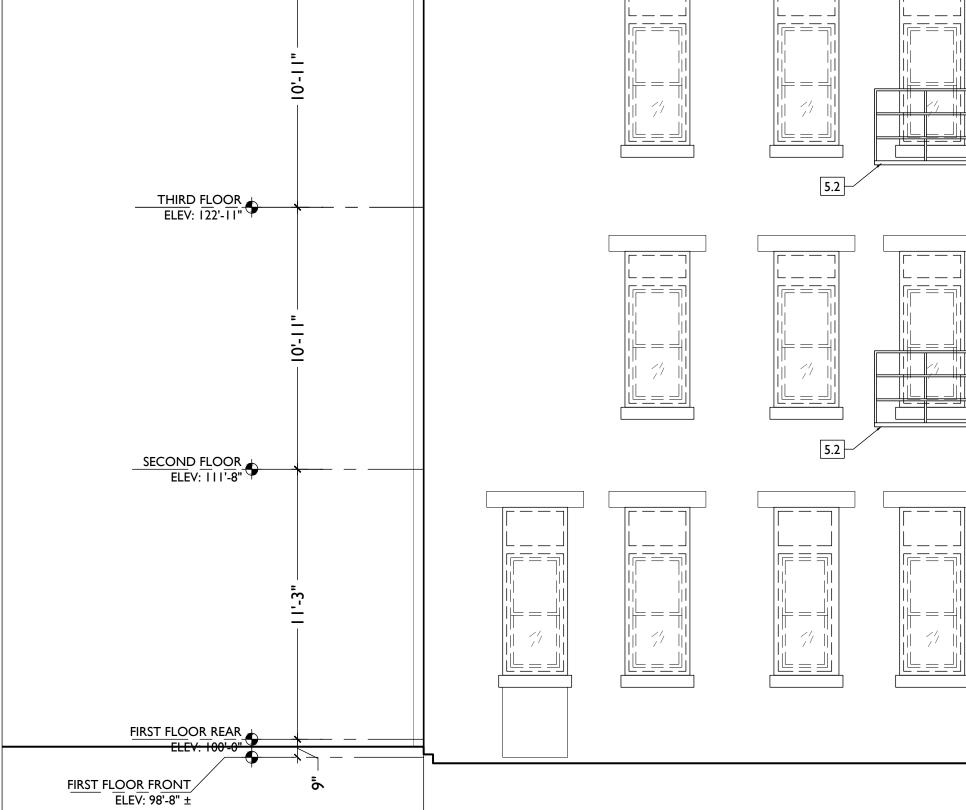


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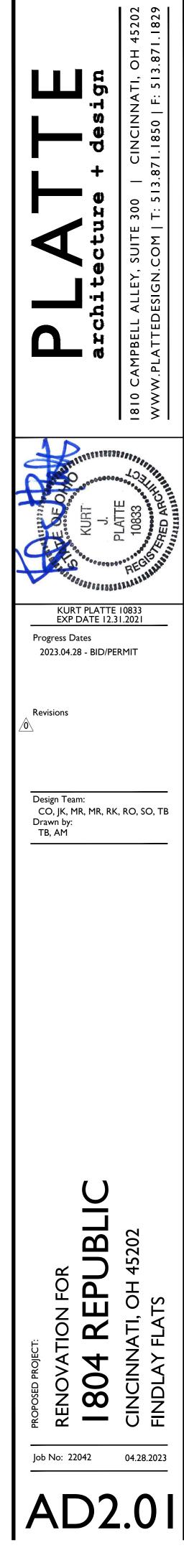




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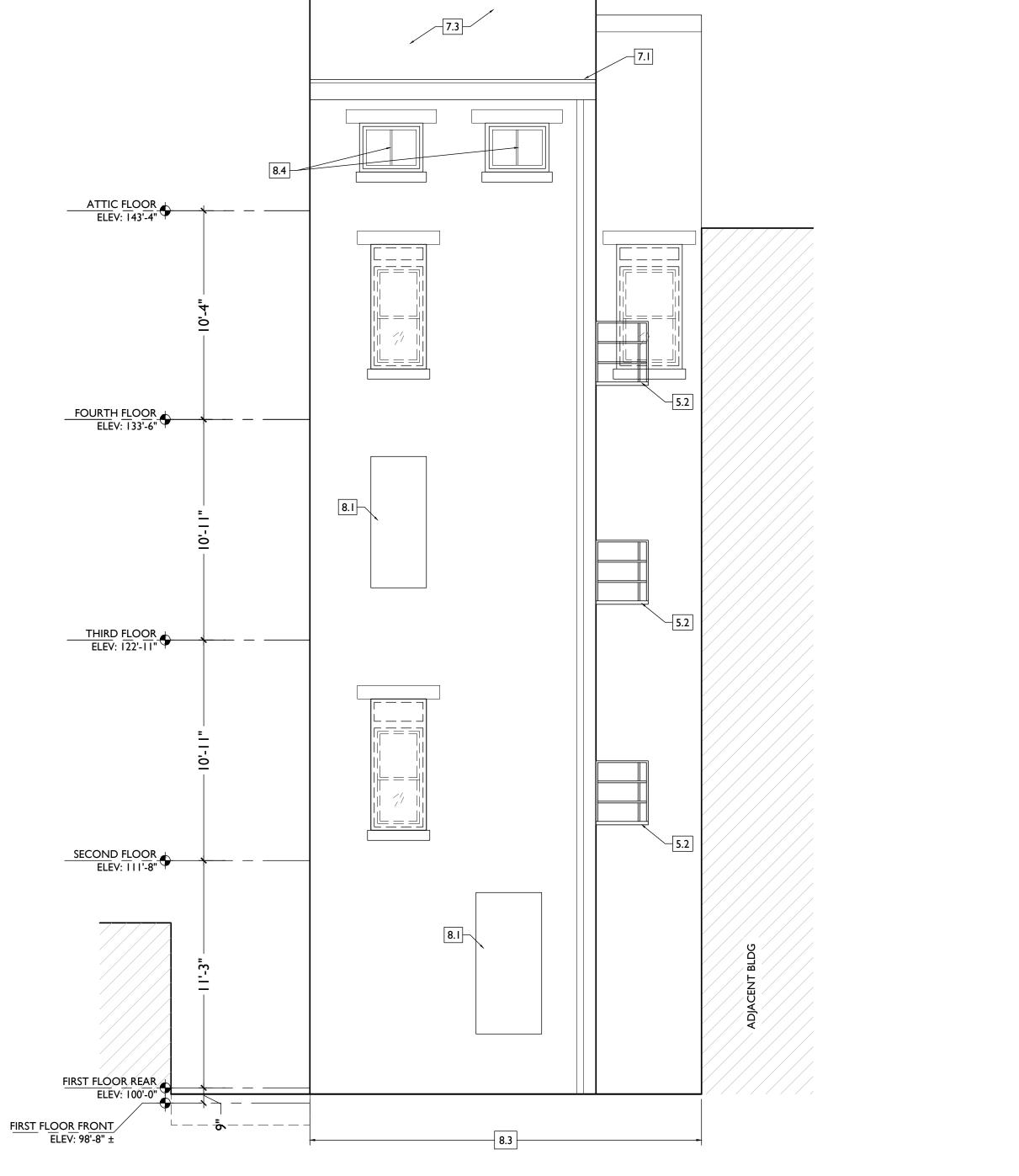


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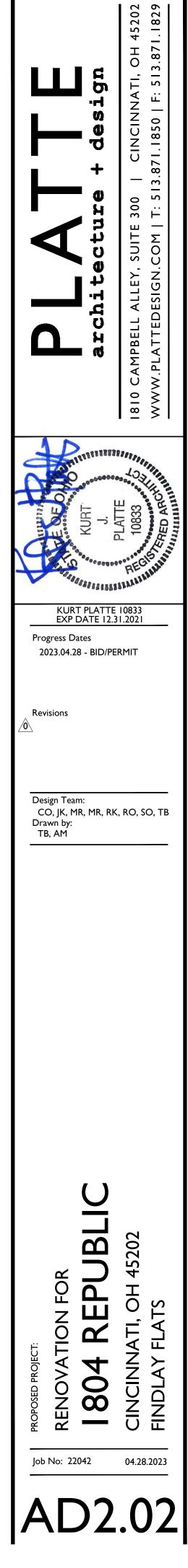


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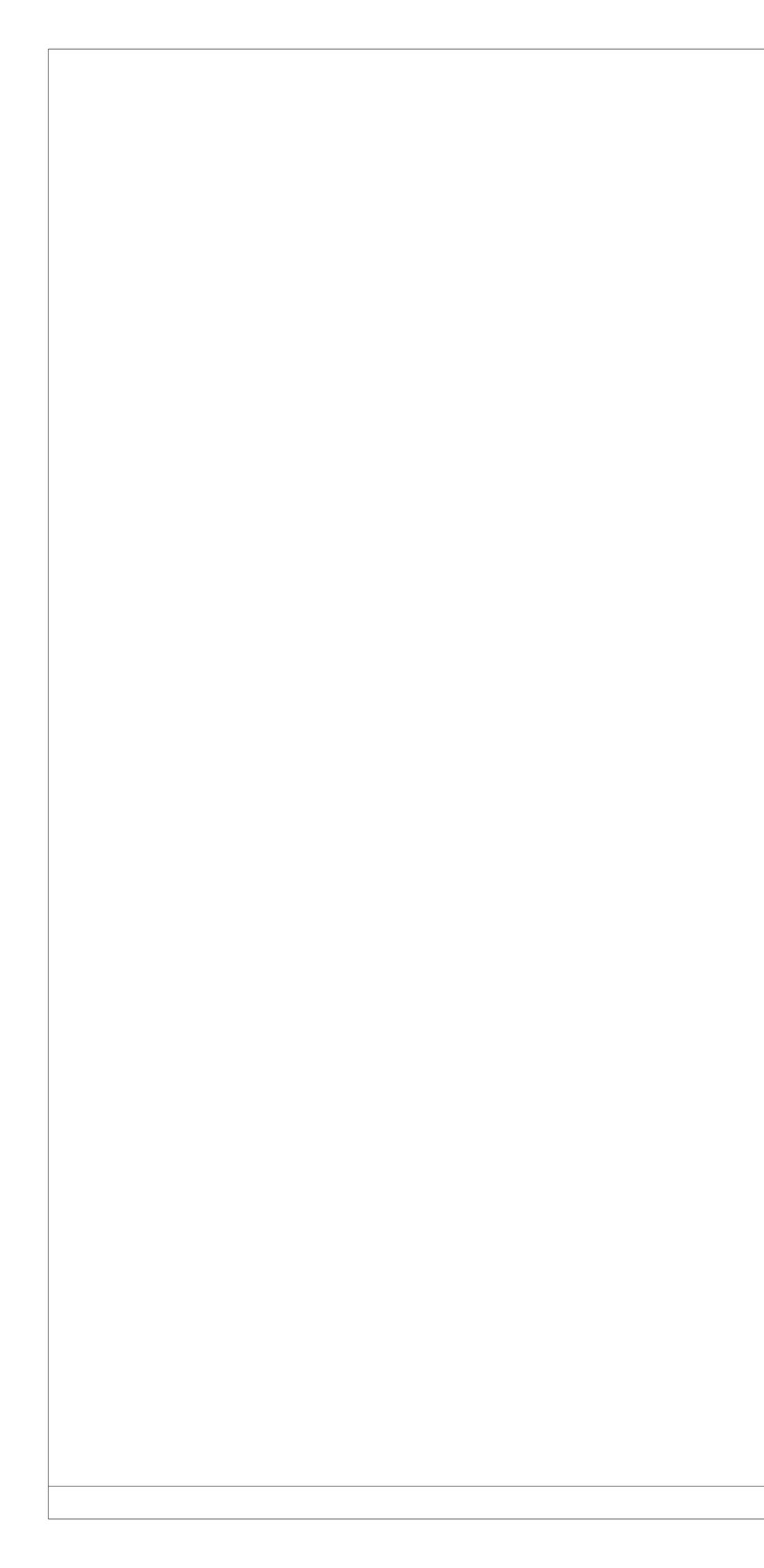
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7.I ATTIC FLOOR ELEV: 143'-4" _____ FOURTH FLOOR ELEV: 133'-6" SECOND FLOOR ELEV: 111'-8" FIRST FLOOR REAR ELEV: 100'-0" FIRST FLOOR FRONT / ELEV: 98'-8" ±



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CINCINNATI, OH FINDLAY FLATS	Image: Sign for the second state of	



GENERAL NOTES:

I. CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION IN THESE DRAWINGS.

2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, INCLUDING SITE CONDITIONS. ALL ERRORS, OMISSIONS, AND INCONSISTENCIES

ARE TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED. IF INSUFFICIENT INFORMATION EXISTS, CONTACT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. EACH CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK, DESIGN/BUILD OR OTHERWISE.

3. BEST MANAGEMENT PRACTICES SHALL BE USED BY THE CONTRACTOR DURING DEMOLITION TO PREVENT RELEASE OF LEAD-CONTAMINATED DUST SHALL BE EMITTED FROM DEMOLITION ACTIVITIES. ALL PAINT CHIPS AND OTHER DEBRIS OR RESIDUE SHALL BE REMOVED FROM THE PROJECT SITE AT THE COMPLETION OF DEMOLITION. STORAGE AND TRANSPORT OF MATERIALS KNOWN OR ASSUMED TO CONTAIN LEAD BASED PAINT SHALL BE COVERED TO PREVENT ACCESS TO OR RELEASE OF LEAD-CONTAMINATED DUST OR DEBRIS.

4. IT SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER TO SUPERVISE CONSTRUCTION AND INSURE THAT THESE DRAWINGS ARE COMPLIED WITH IN THE EVENT THAT THIS ARCHITECT IS NOT RETAINED FOR SUCH SERVICES.

5. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS, INCLUDING THE AMERICANS WITH DISABILITIES ACT, HAVING AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, AND SHALL BE DONE TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY EACH RESPECTIVE TRADE.

6. GUARANTEES SHALL BE REQUIRED OF ALL BRANCHES OF THE WORK. CONTRACTORS TO REMEDY ANY DEFECTS IN THEIR WORK AND PAY FOR ANY RESULTANT DAMAGES TO OTHER WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

7. CONTRACTOR SHALL SUPERVISE THE WORK DURING PROGRESS AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY; COMPLIANCE TO BE IN ACCORDANCE WITH ALL STATE, FEDERAL AND O.S.H.A. REGULATIONS.

8. CONTRACTOR AND ALL SUB-CONTRACTORS SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIAL, TOOLS,

CONSTRUCTION EQUIPMENT AND SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE.

9. CONTRACTOR SHALL PRESENT THE PROJECT TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR USE. ALL GLASS TO BE CLEANED, FLOORS SWEPT BROOM CLEAN, FIXTURES WASHED AND LABELS REMOVED FROM ALL ITEMS.

10. ANY CONTRACTOR OF SUBCONTRACTOR WHO PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO APPLICABLE LAWS, ORDINANCES OR REGULATION, AND WITHOUT WRITTEN NOTICE TO THE ARCHITECT SHALL ASSUME FULL RESPONSIBILITY AND SHALL BEAR ALL ATTRIBUTABLE COSTS.

II. IN THE EVENT OF ANY CONFLICT BETWEEN ARCHITECTURAL DRAWINGS OR SPECIFICATIONS AND STRUCTURAL DRAWINGS OR SPECIFICATIONS, STRUCTURAL SHALL GOVERN.

12. PROJECT IS TO RECEIVE HISTORIC TAX CREDITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE WELL VERSED IN THE APPROVED PART 2 AND SUBSEQUENT AMENDMENTS, AND TO INFORM SUBCONTRACTORS OF ANY CHANGES /APPROVALS DURING THE BIDDING AND THE CONSTRUCTION PHASES.

GENERAL NOTES: ALL TRADES

I. FURNISH ALL LABOR, MATERIAL AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN OR REQUIRED.

2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS AND INSPECTIONS FOR HIS OWN WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

3. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION.

4. CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK. EACH CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF OTHER TRADES.
5. EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL OF GENERAL CONTRACTOR.

6. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.

GENERAL CONDITIONS

CONTRACT DOCUMENTS: INCLUDE THESE GENERAL CONDITIONS FOR CONSTRUCTION, DRAWINGS, SCHEDULES, AND SPECIFICATIONS PREPARED BY THE ARCHITECT AND CONTAINED HEREIN, AND ALL WRITTEN ADDENDA OR OTHER MODIFICATIONS ISSUED SUBSEQUENTLY BY THE ARCHITECT. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR. CONTRACT MODIFICATIONS: THESE CONTRACT DOCUMENTS SHALL NOT BE FURTHER MODIFIED BY ANY TERMS OR CONDITIONS OTHER THAN THOSE LISTED HEREIN OR IN THE SPECIFICATIONS, OR IN ANY WRITTEN AGREEMENTS EXECUTED BY THE OWNER, CONTRACTOR AND SUBCONTRACTORS.

NOTES WRITTEN IN THE IMPERATIVE MOOD REFER TO ACTION TO BE PERFORMED BY THE CONTRACTOR. THE WORDS "THE CONTRACTOR SHALL" ARE ALWAYS IMPLIED, IF NOT STATED, UNLESS OTHERWISE NOTED. THE TERM "CONTRACTOR" SHALL ALSO APPLY TO ALL SUBCONTRACTORS OF THE CONTRACTOR.

THE CURRENT EDITION OF AIA DOCUMENT A101 SHALL BE THE FORM OF AGREEMENT TO BE SIGNED BY THE OWNER AND GENERAL CONTRACTOR, UNLESS THE OWNER AND CONTRACTOR MUTUALLY AGREE OTHERWISE. GENERAL CONDITIONS CONTAINED IN AIA DOCUMENT A201 SHALL APPLY.

BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO CONTROL EROSION DURING CONSTRUCTION AND UNTIL FINAL COVER IS ESTABLISHED.

THE CONTRACTOR SHALL BE NOTIFIED, BOTH VERBALLY AND THROUGH NOTATIONS ON THE FINAL CONST. DWG, THAT WORK SHALL BE HALTED AT A LOT IF INDICATORS OF CONTAMINATION (FILL OTHER THAN "CLEAN FILL", DISCOLORED SOILS OR CHEMICAL/ PETROLEUM ODORS) ARE IDENTIFIED DURING CONST. TO ALLOW FOR A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO INSPECT THE LOT AND MAKE RECOMMENDATIONS REGARDING APPROPRIATE ACTIONS.

ANY WATER WELLS OR SEPTIC SYSTEMS IDENTIFIED DURING SITE DEVELOPMENT SHALL BE ABANDONED AS REQUIRED BY OAC 3745-9-10 OR 3701-29-21, AS APPLICABLE, AND AFTER CONSULTATION W/ THE LOCAL HEALTH DEPARTMENT.

DEFINITIONS:

"CONTRACTOR": THE PERSON OR ENTITY CONSTRUCTING THE DESIGNATED WORK.

"OWNER": THE PERSON OR ENTITY THAT OWNS THE BUILDING BEING RENOVATED. THE TERM "OWNER" INCLUDES HIS DESIGNATED AND AUTHORIZED AGENTS AND REPRESENTATIVES.

"WORK": THE TERM "WORK" MEANS OBLIGATIONS UNDERTAKEN BY THE CONTRACTOR PURSUANT TO THE CONTRACT DOCUMENTS. WORK INCLUDES THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, SUPPLIES, TOOLS, SCAFFOLDING, SUPERVISION, TRANSPORTATION, INSURANCE, TAXES AND ALL OTHER SERVICES, INCIDENTALS AND EXPENSES NECESSARY FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

"PROJECT": THE PROJECT IS THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART.

"CONTRACT DOCUMENTS": THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS REQUIRED FOR COMPLETION OF THE WORK, INCLUDING DRAWINGS AND SPECIFICATIONS. ALTHOUGH THE CONTRACT DOCUMENTS HAVE BEEN PREPARED WITH DUE CARE AND DILIGENCE, PERFECTION CANNOT BE GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS PARTS OF THE WORK SO THAT NO PART SHALL BE IN AN UNFINISHED OR INCOMPLETE CONDITION.

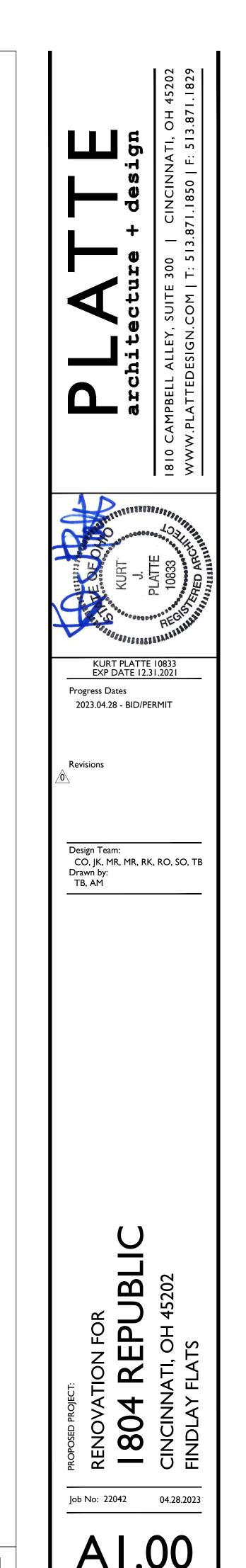
DRAWINGS PREPARED BY OTHERS:

ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS SHALL BE WORKED TOGETHER, INCLUDING THE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, REGLETS, BOLT SETTINGS, ETC. ANY DISCREPANCY SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

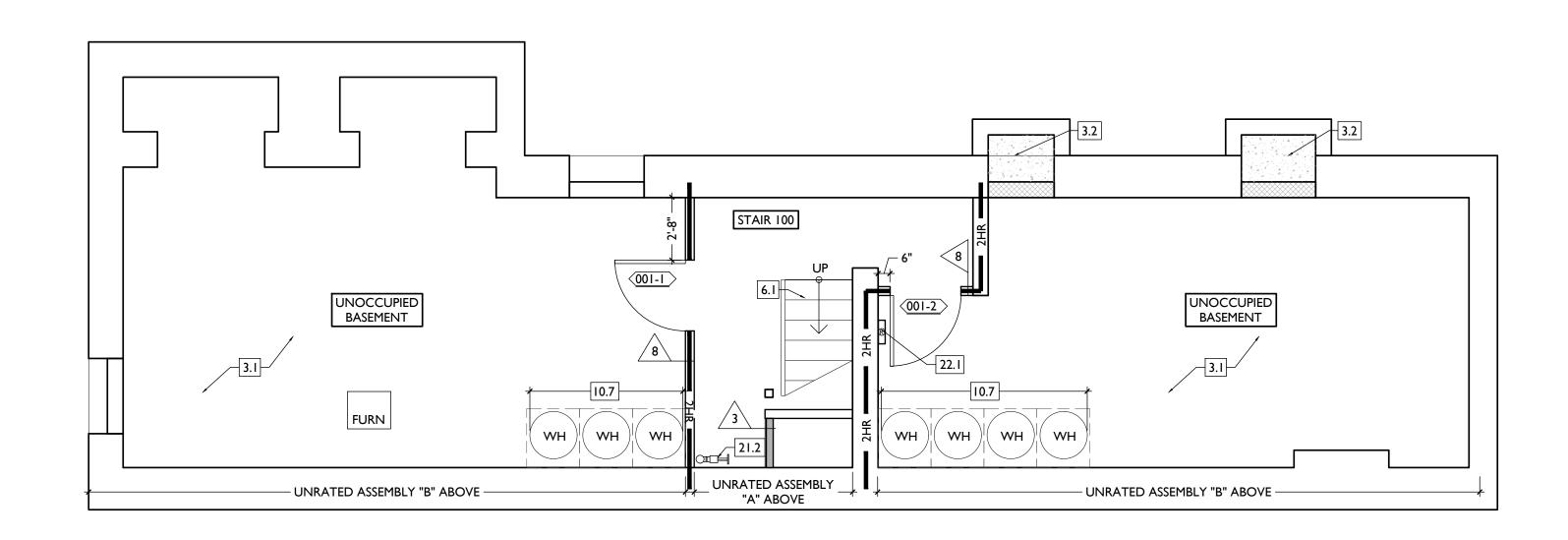
SHOP DWGS PREPARED BY OTHER CONTRACTORS MAY BE REQUIRED TO SUPPLEMENT THE CONTRACT DOCUMENTS. SUCH DWGS ARE FURNISHED FOR THE CONTRACTOR'S INFORMATION AND COORDINATION ONLY.

GENERAL NOTES: PROPOSED WORK

- A. THIS IS A HISTORIC TAX CREDIT PROJECT. WORK MUST COMPLY W/ APPROVED PART 2,
- B. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED
- IN ARCH PLANS.
 C. REPAIR OR REPLACE EXG DAMAGED OR DETERIORATED FLOOR FRAMING &/OR WOOD
- SUBFLOOR PER STRUCT DWGS. D. HISTORIC TRIM TO BE RETAINED, U.N.O. SEE DEMO & PROPOSED PLANS.
- E. RETAIN ANY REMAINING HISTORIC WOOD WINDOW SASH, FRAMES, BRICKMOLD &
- SHUTTER HARDWARE, U.N.O. SEE DEMO & EXTERIOR ELEVATIONS.
 F. REPAIR MATERIALS THAT ARE DETERIORATED OR HAVE MOISTURE/FIRE DAMAGE AS REQ. IF DAMAGE IS SEVERE AND HISTORIC ELEMENTS ARE NON-SALVAGEABLE, COORDINATE
- REPLACEMENT ELEMENTS WITH ARCHITECT. G. SEE CODE SHEETS FOR ROOF/FLOOR/CEILING ASSEMBLY LOCATIONS & PARTITION SCHEDULE FOR TYPES.
- H. PENETRATIONS OF RATED ASSEMBLIES TO BE PROTECTED PER SECTION 713.3 & 713.4 OBC. COORD W/ MEP DWGS.
 I. PROVIDE FIRE BLOCKING PER 717.2 OBC.
- J. PROVIDE DRAFTSTOPPING IN FLOORS, CLGS/ROOFS & ATTICS PER OBC.
- K. PROVIDE BLOCKING FOR SHELVING, CABINETS AND BATHROOM ACCESSORIES AND GRAB BARS. SEE PLANS AND INTERIOR ELEVATIONS.
- .. USE PRESSURE TREATED WOOD IN THE FOLLOWING LOCATIONS: - EXTERIOR APPLICATIONS.
- IN BASEMENTS.
- WOOD IN CONTACT WITH MASONRY, STONE, OR CONCRETE.
 AT ANY NEW FRAMING IN CONTACT W/ MASONRY OR FOUNDATION WALL, PROVIDE SEPARATION/ JOIST & BEAM END WRAPS.
- M. EXTERIOR TRIM, SOFFITS, CORNICE AND STOREFRONT ELEMENTS TO BE REPAIRED/RETAINED/REPLACED AND PAINTED AS NOTED IN DRAWINGS. EXG. UN-PAINTED BRICK AND STONE TO REMAIN UNPAINTED. SEE EXTERIOR ELEVATIONS FOR SCOPE OF WORK. COORD COLORS DIRECTLY W/ ARCHITECT.
- AF. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND CONNECTIONS OF ALL MEP EQUIPMENT.
 AG. PROVIDE SLEEVES THROUGH EXG. BRICK WALL IN ATTIC AS REQUIRED FOR HVAC LINE-SET
- INSTALLATION. AH. ADDITIONAL OPENINGS IN EXTERIOR WALLS WILL BE REQUIRED FOR VARIOUS MEP
- DUCTS/PIPES/ETC, AND ARE NOT SHOWN ON ARCH & STRUCT PLANS. COORD W/ MEP PLANS. CONTACT ARCHITECT FOR PLACEMENT. AI. PROVIDE FIRE EXTINGUISHERS PER CODE SUMMARY & NFPA REQS. COORD W/ FIRE
- MARSHALL. AJ. FASTENERS INTO EXISTING HISTORIC MASONRY WALLS ARE TO BE FASTENED INTO
- MORTAR JOINTS. AK. EXTERIOR STEEL TO BE DUPLEX-FINISH (GALVANIZED, WITH HIGH-PERFORMANCE COMPATIBLE EPOXY PAINT).
- AL. REPAIR & RESEAL AROUND EXG. CHIMNEYS, TYP. AS REQ. PROVIDE NEW ALUM CAP, TYP. AM. EXTERIOR WOOD TO BE PRESSURE TREATED.
- AN. WHERE INFILLING EXISTING OPENINGS IN, OR EXTENDING THE LENGTH OF AN EXISTING WOOD FRAMED PARTITION, FINISH FACES OF THE NEW CONSTRUCTION ARE TO ALIGN WITH ADJACENT EXISTING FINISH FACES ON BOTH SIDES.
- AO. SHEET METAL WORK TO COMPLY WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL. AP. FLASH AND SEAL NEW ROOF PENETRATIONS THROUGH EXISTING ROOF. EMPLOY INSTALLERS ACCEPTABLE TO EXISTING ROOF MANUFACTURER AND COMPLY WITH EXISTING ROOF MANUFACTURER REQUIREMENTS TO MAINTAIN EXISTING ROOF
- WARRANTY. AQ. BASEMENTS TO BE TESTED FOR RADON EXPOSURE. PROVIDE VAPOR MITIGATION SYSTEM BELOW BASEMENT SLAB AS REQUIRED. CONNECT TO VERTICAL VENTS INDICATED IN FLOOR PLANS.
- AR. MASONRY WORK: REFER TO PART 2 SHPO NARRATIVES AND STRUCTURAL DRAWINGS FOR FULL EXTENT AND SCOPE FOR MASONRY CLEANING, TUCK-POINTING, REPAIR, REPLACEMENT, AND PAINTING.
- AS. MASONRY CLEANING: CONTRACTOR SHALL PERFORM MASONRY CLEANING WORK IN ACCORDANCE WITH PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS." CONTRACTOR SHALL CLEAN EXISTING MASONRY THROUGHOUT USING THE GENTLEST MEANS POSSIBLE AND SHALL START EACH NEW METHOD OF CLEANING (E.G. BY BRUSH, WITH DETERGENT, WITH WATER PRESSURE, ETC.) IN DISCRETE AREA OF EACH WALL. CONTRACTOR SHALL BEGIN BY CLEANING WITH WATER AND NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERGENTS WITH NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERMENTS WITH LOW PRESSURE WATER (STARTING AT 20 PSI AT TIP). UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE PRESSURE WASHING WITH GREATER THAN 40 PSI AT TIP. CLEANING SHALL BE PERFORMED EVENLY THROUGHOUT THE ENTIRETY OF EACH WALL. WALLS WHERE STUCCO / PARGING IS TO REMAIN SHALL NOT BE CLEANED WITH PRESSURE WASHING. REMOVE EXISTING LOOSE STUCCO / PARGING BY HAND WITH BRUSHES. PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS:
- HTTPS://WWW.NPS.GOV/TPS/HOW-TO-PRESERVE/BRIEFS/6-DANGERS-ABRASIVE-CLEANING.HTM AT. PARGING: CONTRACTOR TO TEST AND ASSESS THE INTEGRITY OF EXISTING STUCCO / PARGING ON EXISTING MASONRY WALLS. ANY STUCCO / PARGING TO REMAIN MUST BE SECURELY HELD TO EXISTING MASONRY WALL. ANY STUCCO / PARGING THAT IS NOT SECURELY HELD TO MASONRY WALL SHALL BE REMOVED THROUGH GENTLEST MEANS POSSIBLE (SEE MASONRY CLEANING ABOVE). NEW STUCCO / PARGING SHALL BE INSTALLED WHERE EXISTING STUCCO / PARGING HAS BEEN REMOVED, AND AS INDICATED ON THE DRAWINGS, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S HIGHEST RECOMMENDATIONS USING ALL ASSOCIATED COMPONENTS FOR FLASHING, PENETRATIONS, ETC. STUCCO / PARGING SHALL BE INSTALLED ON MASONRY JAMB SURFACES OF NEW DOOR AND WINDOWS OPENINGS UP TO THE WINDOW / DOOR UNIT. NEW STUCCO/ PARGING SHALL MATCH EXISTING IN TEXTURE AND COLOR. NEW STUCCO / PARGING SHALL BE A THREE-COAT SYSTEM (SCRATCH COAT, BROWN COAT AND FINISH COAT) WITH A GLASS FIBER REINFORCED LATH. BASIS-OF-DESIGN IS "SENERGY" BRAND, "SENERGY SENTRY STUCCO WALL SYSTEM PERMALATH 1000" WITH PRE-MIXED "SENTRY STUCCO BASE" AND "SENERLASTIC" FINISH COAT WITH TEXTURE TO MATCH EXISTING. CONTROL JOINTS TO BE ALIGNED WITH OPENINGS.
- AU. GYPSUM BOARD: SEE PARTITION SCHEDULE. MOLD & MOISTURE RESISTANT GYPSUM BOARD IN ALL WET AREAS - RESTROOMS, KITCHENS, LAUNDRY, BASEMENTS.
 AV. STORM WINDOWS: FRAME WIDTH CANNOT REDUCE THE DAYLIGHT OPENING OF THE
- WINDOW & THE CENTER CHECK RAIL MUST ALIGN WITH THE WINDOW CENTER CHECK RAIL. NO SCREENS. AW.PROVIDE UNIT ENTRY SIGNAGE PER FINISH SCHEDULE AT EACH RESIDENTIAL UNIT ENTRY.
- FINAL LOCATION TO BE DETERMINED BY OWNER. IF MOUNTING ON DOOR, ENSURE INSTALLATION DOES NOT VOID RATING OF DOOR ASSEMBLY. AX. PROVIDE BLINDS AT RESIDENTIAL UNITS PER FINISH SCHEDULE. QUANTITY AND
- LOCATIONS BY OWNER. AY. SUBCONTRACTOR PROVIDE RECOMMENDED ALLOWANCE FOR PLASTER REPAIR.



COMPLY THESE D	HISTORIC TAX CREDIT PROJECT. ALL WORK MUST W/ APPROVED PART 2, INCLUDING AMENDMENTS. OCUMENTS ARE PART OF THE PROJECT		HERMAL AND MOISTURE PROTECTION REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED	10.9	INTERIOR ELEVATIONS AND FINISH SCHEDULI SHOWER NICHE. SEE ENLARGED PLANS, INTER AND DETAIL 1/A5.00
KEYED N KEYED NC ONLY. NC OTHER TH RESPONSIE	OTES OTES OTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES OTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES HAN WHERE THEY OCCUR. THE CONTRACTOR IS BLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES ESS OF THE CATEGORY IN WHICH THEY OCCUR.		REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.	21.1 21.2	FIRE SUPPRESSION APPROX LOCATION OF FDC CONNECTION - FIRE DEPT. PROPOSED SPRINKLER RISER LOCATION. COO FIRE SUPPRESSION CONTRACTOR. EXTERIOR TAMPER/FLOW NOTIFICATION DEV COORDINATE WITH ELECTRICAL AND FIRE PF SYSTEMS
ALL KEYED	O NOTES LISTED MAY NOT APPLY TO THIS SHEET.		PENINGS	22	
	CRETE B TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO VER. REPAIR AS REQUIRED.	8.2			PLUMBING PROVIDE PIPE IN WALL FRAMING FOR VAPOR AS REQUIRED BY OWNER'S CONSULTANT. RIS FROM BASEMENT TO ATTIC. SEE CONSULTAN
AT GRAD	G OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE E. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR ID CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.		INISHES FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL. FIRE RATING TO BE CONTINUOUS AT		LOCATIONS OF RISERS. COORDINATE WITH P PLUMBING CHASE (OR WALL) - VERIFY LOCAT ALIGN CONCEALMENT BETWEEN FLOORS. HOSEBIB LOCATION. SEE PLUMBING.
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	DVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL		SPECIALTIES LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT		MECHANICAL UNIT(S) - WALKING PADS TO & EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPI ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
5. META	LS		FIRE-RATING BEHIND MAILBOXES, WHEN REQ.		SEE HVAC & STRUCTURAL DWGS.
5.2 NEV 5.3 NEV	W CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. W STEEL GUARDRAIL. SEE DETAILS. W ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE. G. FIRE ESCAPE TO REMAIN.		ENTRY SECURITY SYSTEM CALL BOX. CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.: A. TYP. REACH-IN CLOSET	23.3	NOT USED. NEW EXHAUST / INTAKE VENT COVER. PAINT ADJACENT WALL SURFACE. ELECTRICAL
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6.4 NE	W RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE		A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.	20.2	OF BUILDING.
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	D REPAINTED.	10.8	HEATER. SEE PLUMBING DWGS. NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		



DULE. NTERIOR ELEVATIONS

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DEVICE -RE PROTECTION

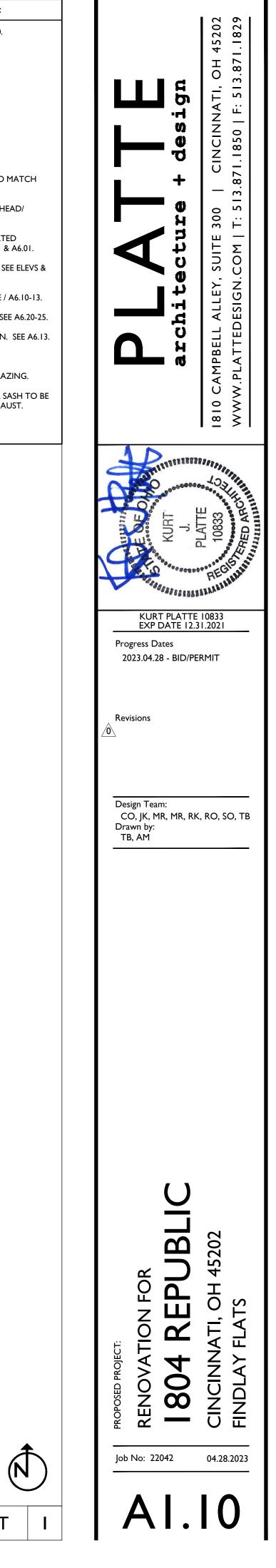
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DNDITIONING TO & AROUND QUIPMENT <10' FROM ATFORM PER 11/A5.00.

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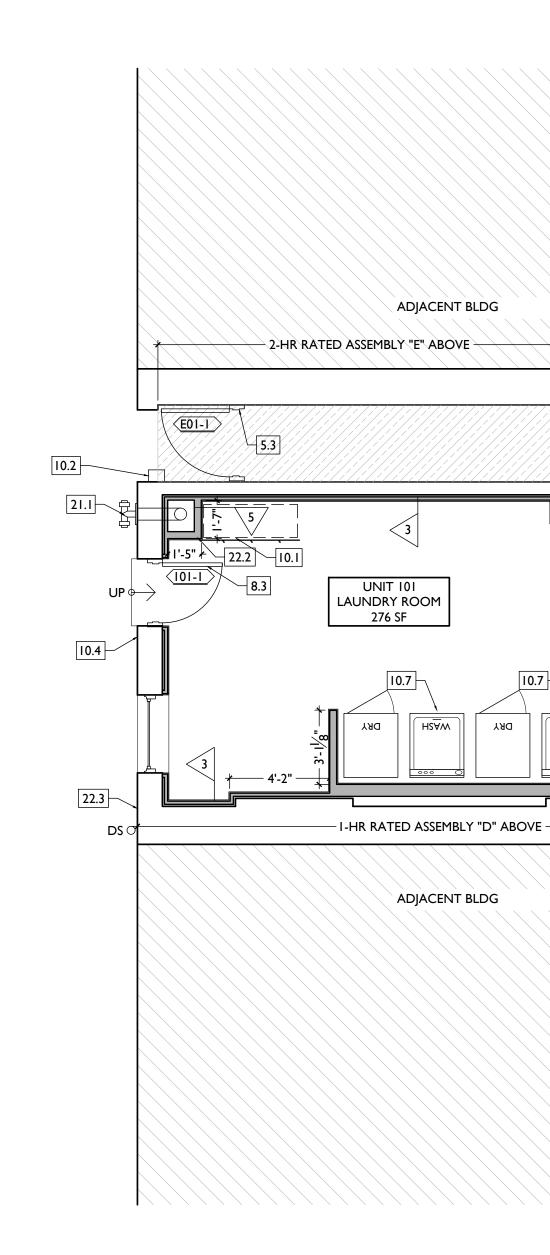
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CONDUIT ON FACE



١	NEW WORK GRAPHIC KEY:
2/	PARTITION TYPE - SEE A6.00.
4	KEYNOTE.
	EXISTING WALL.
	NEW PARTITION WALL.
	NEW MASONRY WALL.
	OBJECT OVERHEAD.
	I-HR FIRE RATING. 2-HR FIRE RATING.
	NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS.
	NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS.
	AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. SEE A0.01 & A6.01.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AREA OF TUCKPOINTING - SEE ELEVS 8 STRUCT DWGS.
<u>100A</u>	DOOR TAG. SEE SCHEDULE / A6.10-13.
A	WINDOW DESIGNATION. SEE A6.20-25
SFA	STOREFRONT DESIGNATION. SEE A6.1
	EMERGENCY EGRESS EXIT.
SG	OPG CONTAINS SAFETY GLAZING.
SH	SINGLE HUNG OPG - UPPER SASH TO B FIXED WITHIN 3'-0" OF EXHAUST.
• *	ELEVATION TAG.

THESE DOCUMENTS ARE PART OF THE PROJECT CONTRACT DOCUMENTS.	 THERMAL AND MOISTURE PROTECTION REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED ALUMINUM DOWNSPOUT. NEW FULLY ADHERED MEMBRANE ROOF W/ CRICKETS WHERE 		INTERIOR ELEVATIONS AND FINISH SCHEDULE SHOWER NICHE. SEE ENLARGED PLANS, INTER AND DETAIL 1/A5.00 FIRE SUPPRESSION
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	I NOT USED		PLUMBING
 3. CONCRETE 3.1 SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO SEWER. REPAIR AS REQUIRED. 3.2 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE 	 NOT USED NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR SCHEDULE. 	22.1	PROVIDE PIPE IN WALL FRAMING FOR VAPOR I AS REQUIRED BY OWNER'S CONSULTANT. RIS FROM BASEMENT TO ATTIC. SEE CONSULTAN LOCATIONS OF RISERS, COORDINATE WITH P
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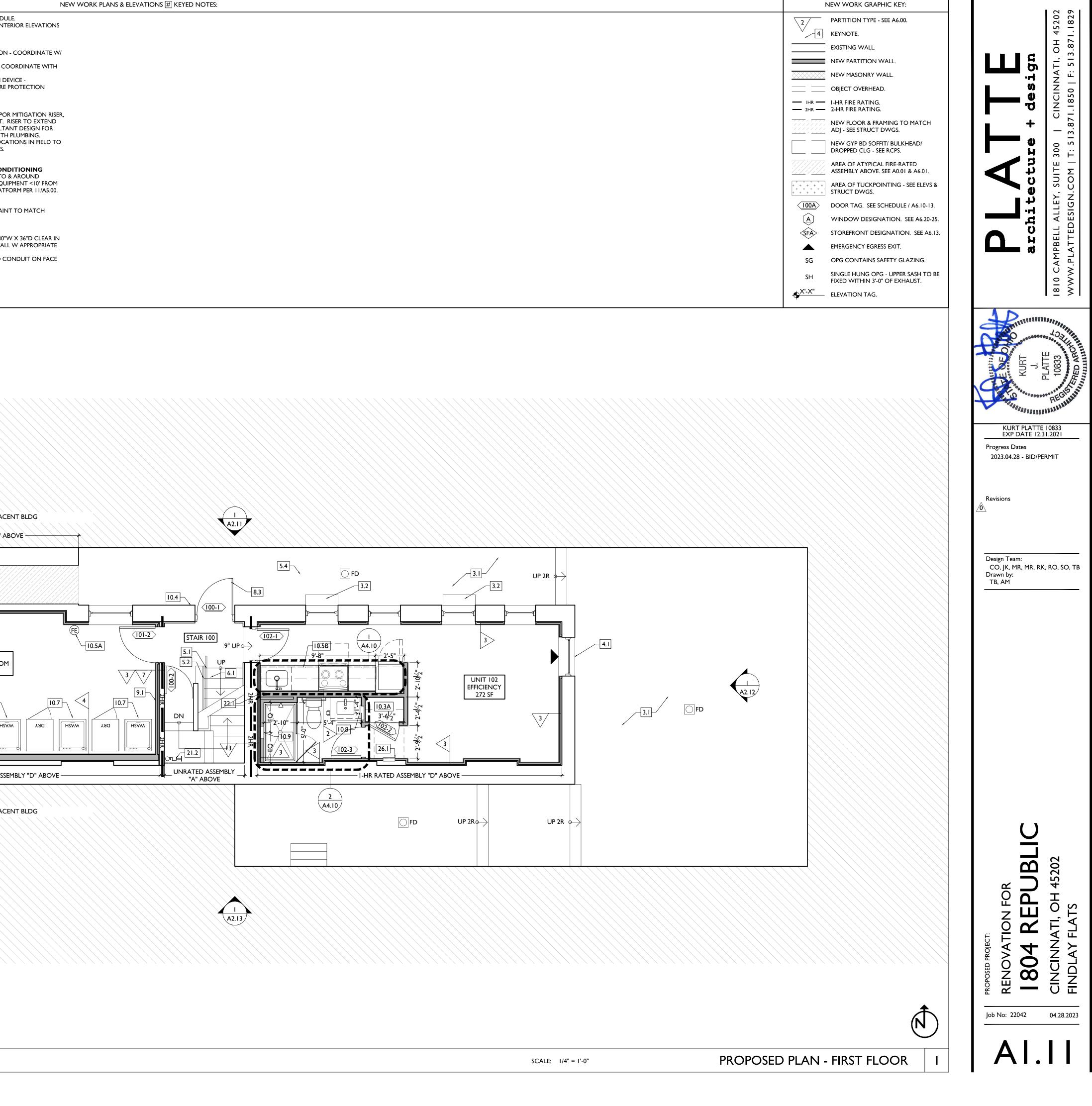
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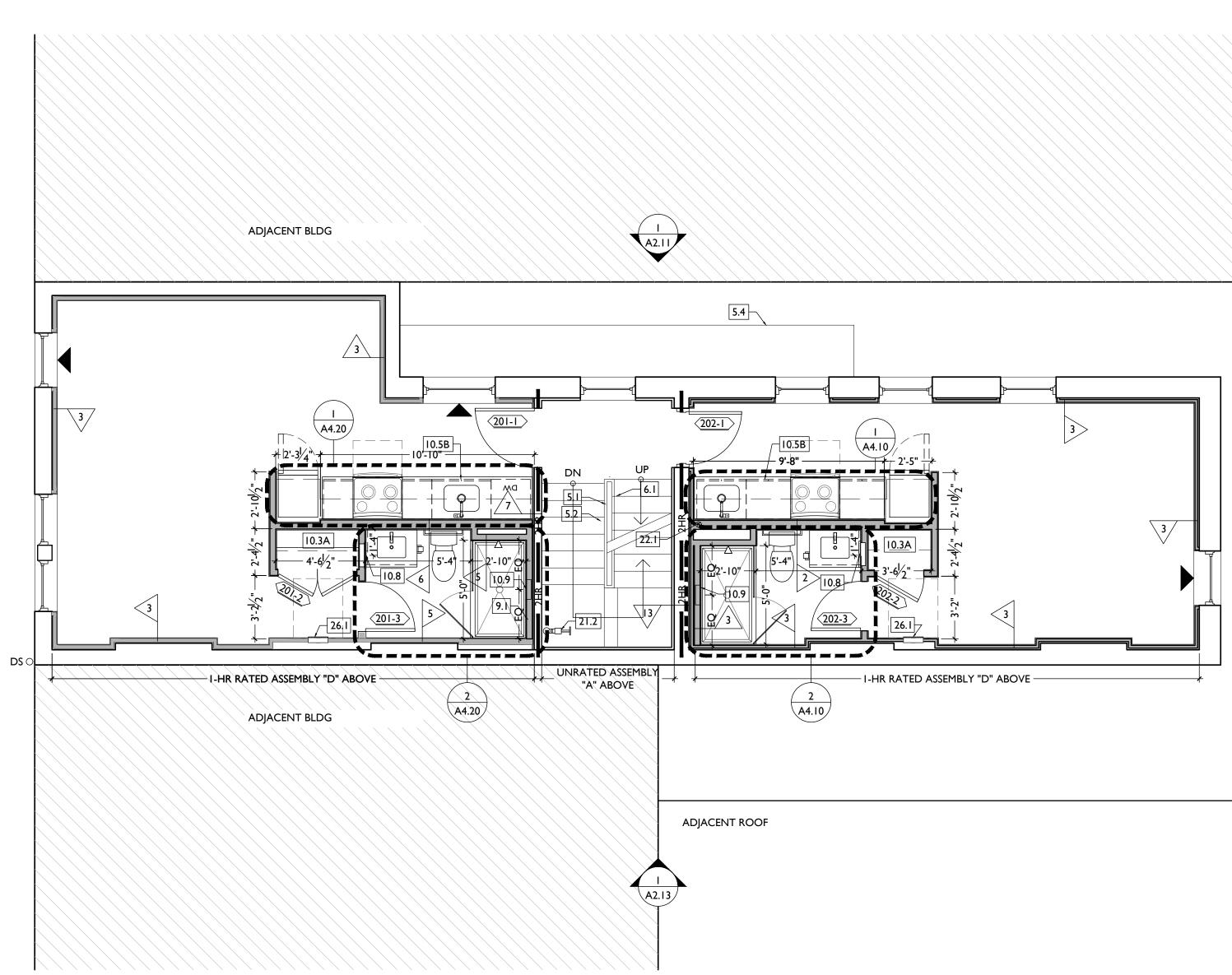
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CONDUIT ON FACE



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 5.2 NEW STEEL GUARDRAIL. SEE DETAILS. 5.3 NEW ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE. 5.4 EXG. FIRE ESCAPE TO REMAIN. 			23.3	NEW EXHAUST / INTAKE VENT COVER. PAINT ADJACENT WALL SURFACE.
 6. WOOD, PLASTICS, AND COMPOSITES 6.1 REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS. 6.2 NEW FLOOR FRAMING (SEE STRUCT DWGS). 6.3 NOT USED 		C. ABOVE W/D. PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.	26.1	ELECTRICAL ELECTRIC PANEL RECESSED IN WALL W/ 30"W FRONT. PAINT TO MATCH ADJACENT WALL V PAINT TYPE FOR PANEL. NEW EXTERIOR LIGHTING. NO EXPOSED COM
 6.4 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE ELEVATIONS. 6.5 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL DRAWINGS. 6.6 EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED, 		A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. RECESSED MEDICINE CABINET. SEE INT. ELEVS. PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER HEATER. SEE PLUMBING DWGS.		OF BUILDING.
AND REPAINTED.	10.8	NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		

A2.10



JLE. FERIOR ELEVATIONS

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EVICE -PROTECTION

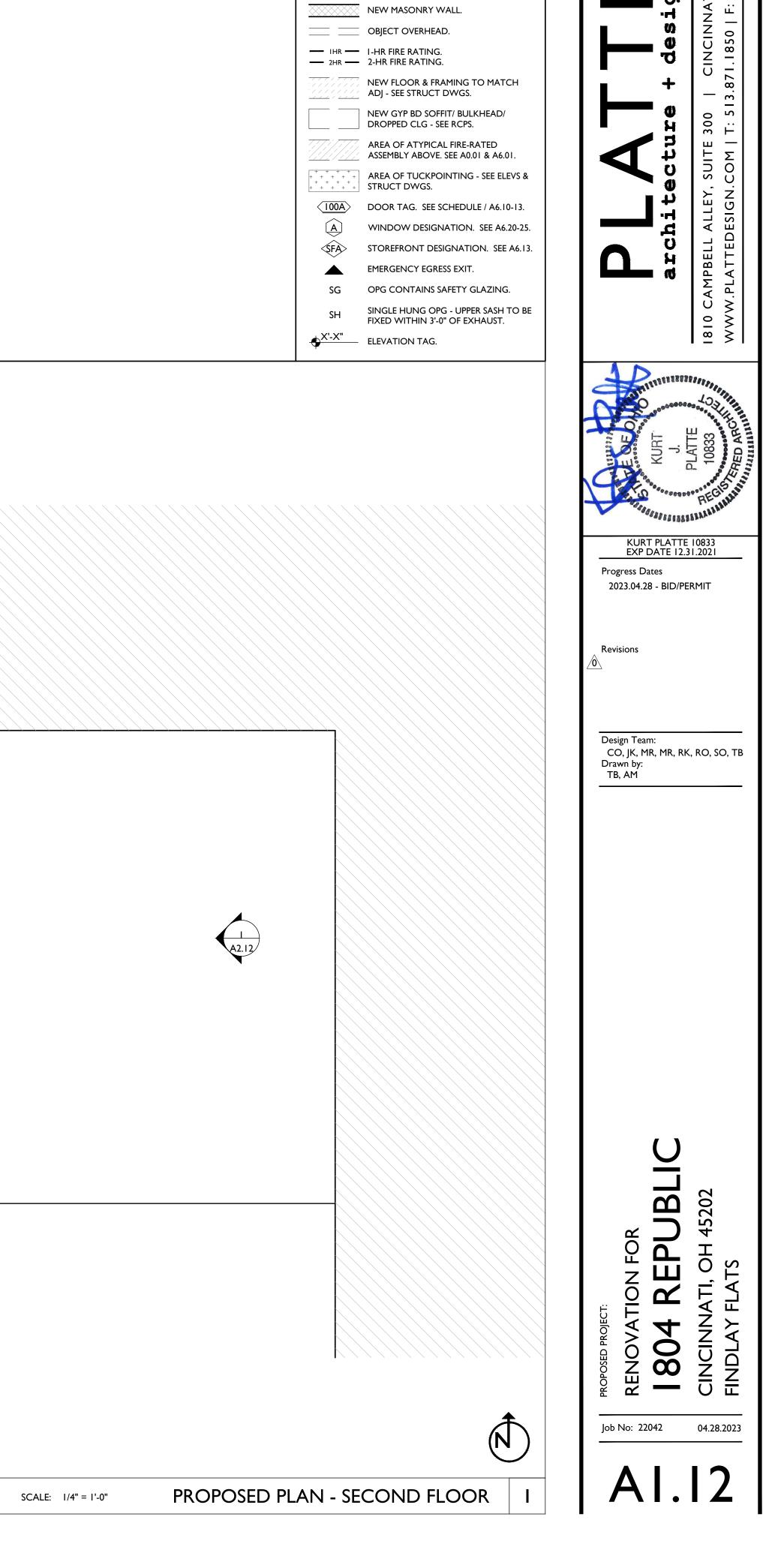
OR MITIGATION RISER, RISER TO EXTEND TANT DESIGN FOR H PLUMBING. ATIONS IN FIELD TO

ONDITIONING TO & AROUND QUIPMENT <10' FROM ATFORM PER 11/A5.00.

INT TO MATCH

)"W X 36"D CLEAR IN L W APPROPRIATE

CONDUIT ON FACE



NEW WORK GRAPHIC KEY:

PARTITION TYPE - SEE A6.00.

EXISTING WALL.

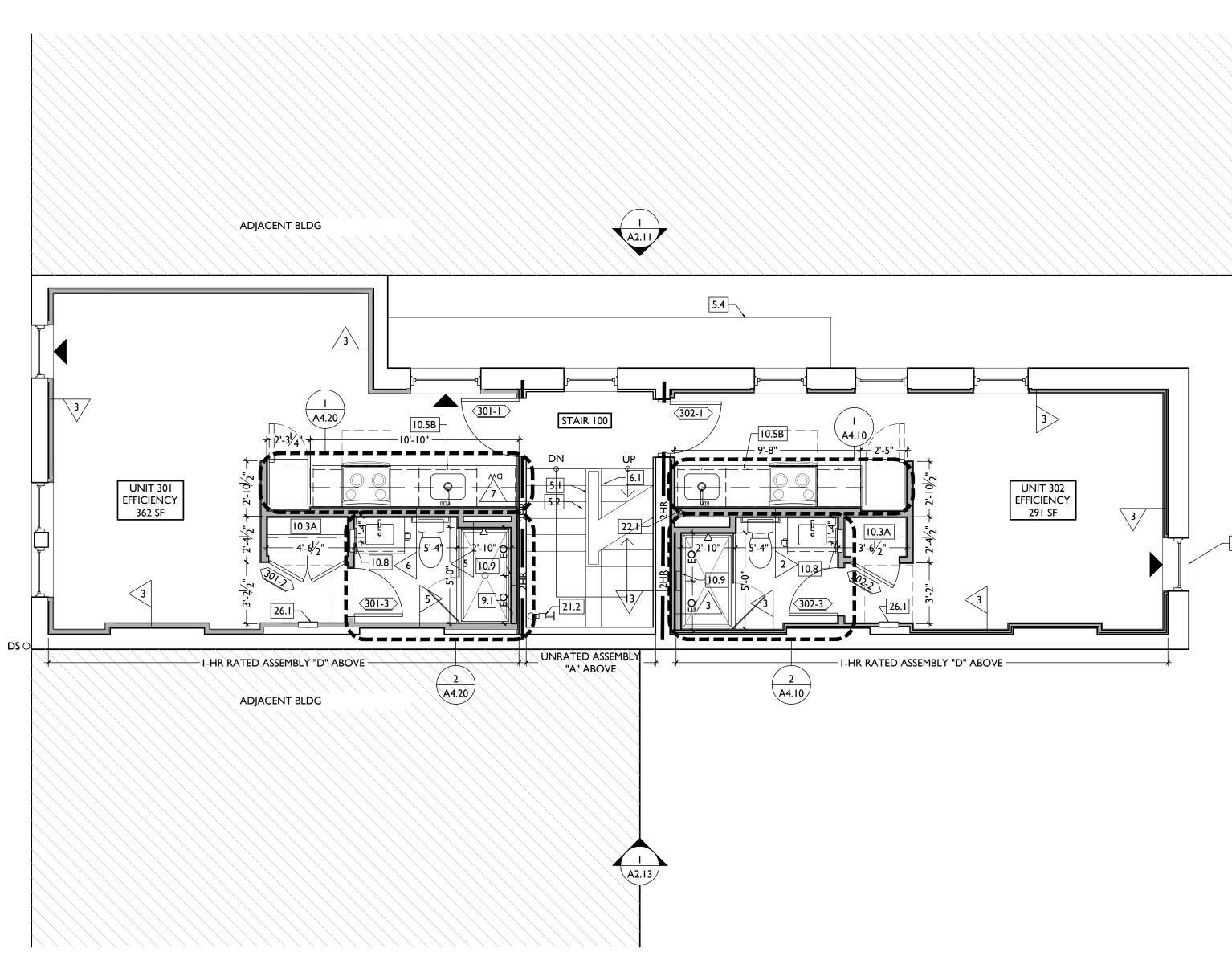
NEW PARTITION WALL.

4 KEYNOTE.

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	SE DOCUMENTS ARE PART OF THE PROJECT	7. 1 7.1	REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED	10.9	INTERIOR ELEVATIONS AND FINISH SCHEDULE SHOWER NICHE. SEE ENLARGED PLANS, INTER AND DETAIL 1/A5.00
KEYE KEYE ONLY OTHE RESPO	ED NOTES D NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES Y. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES	7.27.37.4	REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS. BASIS OF DESIGN = BILCO E50TB, 36"X36".	21.1 21.2	FIRE SUPPRESSION APPROX LOCATION OF FDC CONNECTION - FIRE DEPT. PROPOSED SPRINKLER RISER LOCATION. COC FIRE SUPPRESSION CONTRACTOR. EXTERIOR TAMPER/FLOW NOTIFICATION DEV COORDINATE WITH ELECTRICAL AND FIRE PR SYSTEMS
ALL K	SEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. C 8.1	DPENINGS NOT USED	22.	PLUMBING
3.1	SUBJECT OF CONTRACT OF CONTRAC	8.2	NOT USED		PROVIDE PIPE IN WALL FRAMING FOR VAPOR I AS REQUIRED BY OWNER'S CONSULTANT. RIS FROM BASEMENT TO ATTIC. SEE CONSULTAN LOCATIONS OF RISERS. COORDINATE WITH P
AT C INFIL	GRADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR LL AND CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.		FINISHES FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL, FIRE RATING TO BE CONTINUOUS AT		PLUMBING CHASE (OR WALL) - VERIFY LOCAT ALIGN CONCEALMENT BETWEEN FLOORS. HOSEBIB LOCATION. SEE PLUMBING.
	1ASONRY NEW OR EXPANDED OPENING IN EXG MASONRY WALL. PROVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL DWGS		INTERSECTION W/ NON-RATED WALL. SPECIALTIES LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT		HEATING, VENTILATING, AND AIR CONDI MECHANICAL UNIT(S) - WALKING PADS TO & EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPT ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
5.I			FIRE-RATING BEHIND MAILBOXES, WHEN REQ. ENTRY SECURITY SYSTEM CALL BOX. CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:		NOOF EDGE. FROMDE OVER-FRAMED FLATFO SEE HVAC & STRUCTURAL DWGS. NOT USED. NEW EXHAUST / INTAKE VENT COVER. PAINT ADJACENT WALL SURFACE.
6. ∨ 6.1 6.2 6.3	VOOD, PLASTICS, AND COMPOSITES REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS. NEW FLOOR FRAMING (SEE STRUCT DWGS). NOT USED		A. TYP. REACH-IN CLOSET B. WALK-IN CLOSET. C. ABOVE W/D. PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.	26.1	ELECTRICAL ELECTRIC PANEL RECESSED IN WALL W/ 30"W FRONT. PAINT TO MATCH ADJACENT WALL V PAINT TYPE FOR PANEL. NEW EXTERIOR LIGHTING. NO EXPOSED COM
6.4 6.5 6.6	DRAWINGS. EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED,	10.7	A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. RECESSED MEDICINE CABINET. SEE INT. ELEVS. PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER HEATER. SEE PLUMBING DWGS. NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		OF BUILDING.





JLE. FERIOR ELEVATIONS

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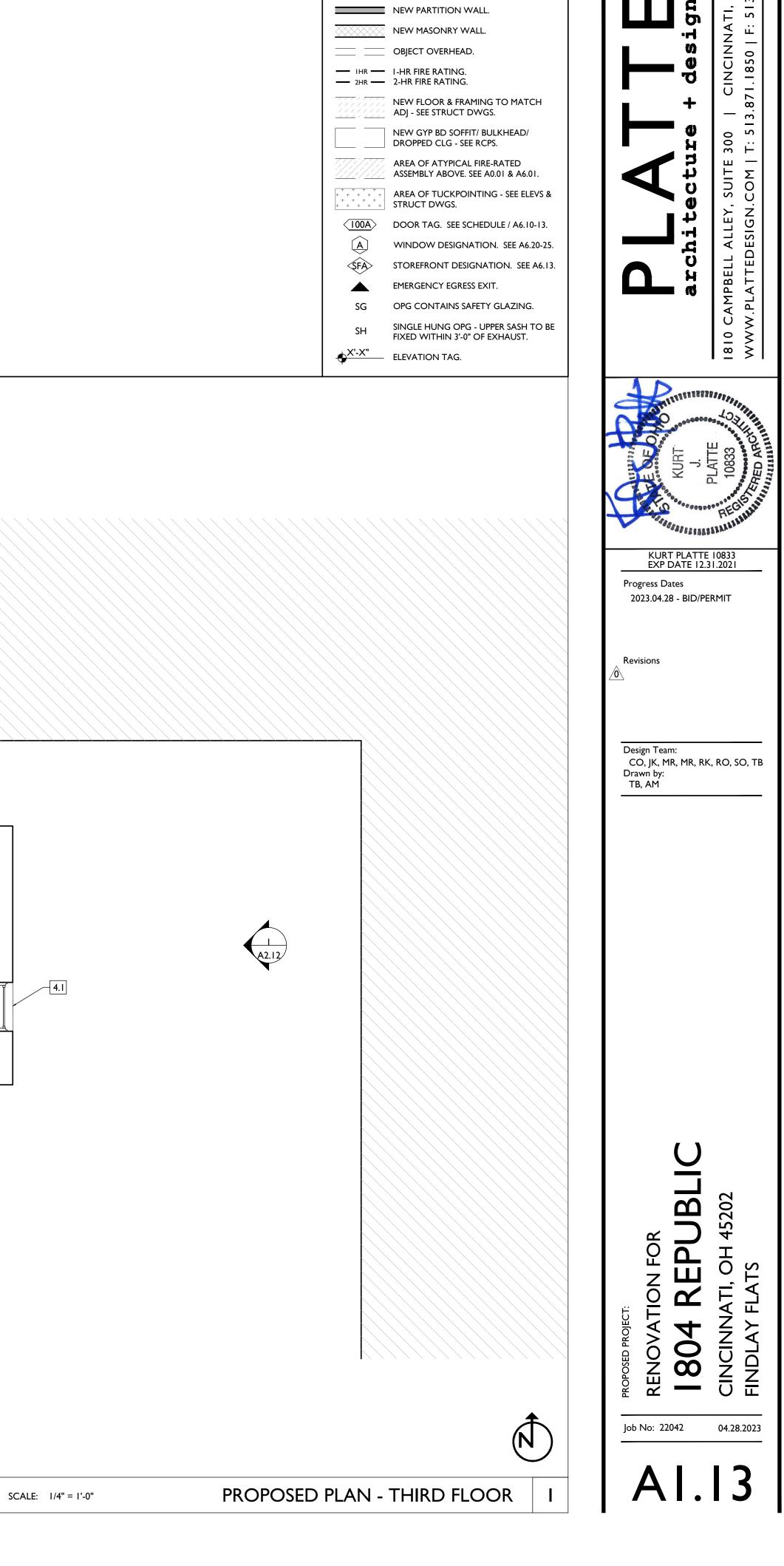
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TFORM PER 11/A5.00.

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)"W X 36"D CLEAR IN L W APPROPRIATE

CONDUIT ON FACE



NEW WORK GRAPHIC KEY:

PARTITION TYPE - SEE A6.00.

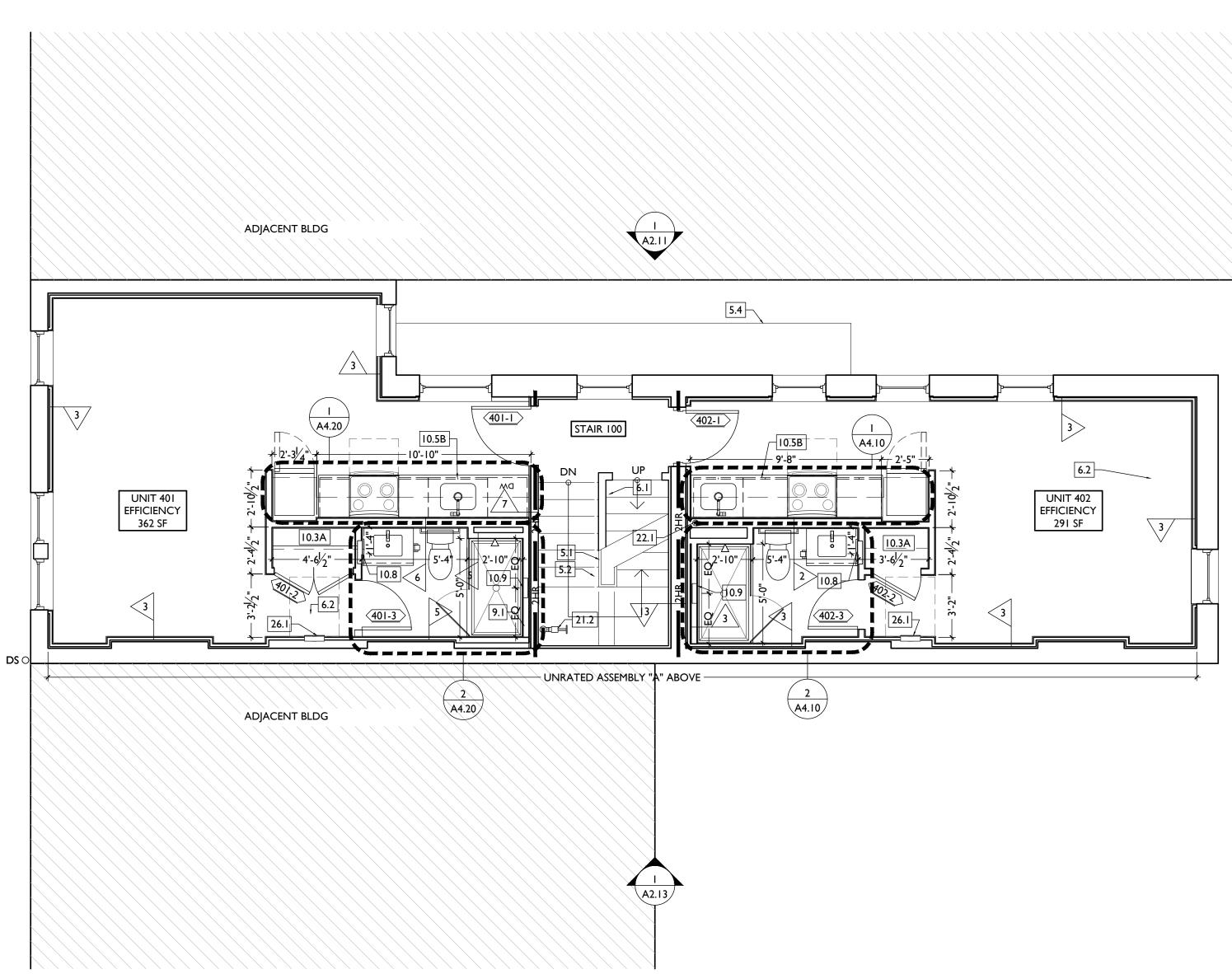
EXISTING WALL.

4 KEYNOTE.

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COM	IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST PLY W/ APPROVED PART 2, INCLUDING AMENDMENTS. SE DOCUMENTS ARE PART OF THE PROJECT	7. T 7.1	THERMAL AND MOISTURE PROTECTION REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED	10.9	INTERIOR ELEVATIONS AND FINISH SCHEDULE SHOWER NICHE. SEE ENLARGED PLANS, INTER AND DETAIL 1/A5.00
	TRACT DOCUMENTS.	7.1	ALUMINUM DOWNSPOUT.		AND DETAIL 1/A3.00
		7.2	NEW FULLY ADHERED MEMBRANE ROOF W/ CRICKETS WHERE	21.	FIRE SUPPRESSION
	D NOTES		REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS		
KEYED	NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES		& METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION		FIRE DEPT.
ONLY	. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES		PER SCHEDULE.	21.2	PROPOSED SPRINKLER RISER LOCATION. COC
OTHE	R THAN WHERE THEY OCCUR. THE CONTRACTOR IS	7.3	NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.		FIRE SUPPRESSION CONTRACTOR.
	INSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES		BASIS OF DESIGN = BILCO E50TB, 36"X36".	21.3	EXTERIOR TAMPER/FLOW NOTIFICATION DEV
	RDLESS OF THE CATEGORY IN WHICH THEY OCCUR.	7.4	NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.		COORDINATE WITH ELECTRICAL AND FIRE PR SYSTEMS
ALL K	EYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. C	DPENINGS		
		8.I			PLUMBING
			NOT USED	22.I	PROVIDE PIPE IN WALL FRAMING FOR VAPOR
3.1	SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO	8.3			AS REQUIRED BY OWNER'S CONSULTANT. RIS
2.2	SEWER. REPAIR AS REQUIRED.		DOOR SCHEDULE.		FROM BASEMENT TO ATTIC. SEE CONSULTAN
	EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE RADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR			<u></u>	LOCATIONS OF RISERS. COORDINATE WITH P
-	L AND CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.			22.2	PLUMBING CHASE (OR WALL) - VERIFY LOCAT
IINFIL	LAND CIVIL FOR CONCRETE FLAT WORK ABOVE OPENING.	9.1		<u></u>	ALIGN CONCEALMENT BETWEEN FLOORS.
4 M	ASONRY		FURRING WALL. FIRE RATING TO BE CONTINUOUS AT INTERSECTION W/ NON-RATED WALL.	22.3	HOSEBIB LOCATION. SEE PLUMBING.
	NEW OR EXPANDED OPENING IN EXG MASONRY WALL.		INTERSECTION W/ NON-RATED WALL.	22	HEATING, VENTILATING, AND AIR CONDI
1.1	PROVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL	10	SPECIALTIES		MECHANICAL UNIT(S) - WALKING PADS TO &
	DWGS		LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C	23.1	EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPI
		10.1	STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT		ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
5. M	ETALS		FIRE-RATING BEHIND MAILBOXES, WHEN REQ.		SEE HVAC & STRUCTURAL DWGS.
	NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS.	10.2	ENTRY SECURITY SYSTEM CALL BOX.	23.2	NOT USED.
	NEW STEEL GUARDRAIL. SEE DETAILS.		CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"		NEW EXHAUST / INTAKE VENT COVER. PAINT
5.3	NEW ALUM, BREEZEWAY GATE, SEE DOOR SCHEDULE,	10.5	MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:		ADJACENT WALL SURFACE.
5.4	EXG. FIRE ESCAPE TO REMAIN.		A. TYP. REACH-IN CLOSET		,
			B. WALK-IN CLOSET.	26.	ELECTRICAL
6. W	OOD, PLASTICS, AND COMPOSITES		C. ABOVE W/D.	26.1	ELECTRIC PANEL RECESSED IN WALL W/ 30"W
	REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS.	10.4	PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL		FRONT. PAINT TO MATCH ADJACENT WALL
6.2	NEW FLOOR FRAMING (SEE STRUCT DWGS).		FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH		PAINT TYPE FOR PANEL.
6.3	NOT USED		LOCAL FIRE MARSHAL.	26.2	NEW EXTERIOR LIGHTING. NO EXPOSED CON
6.4	NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE ELEVATIONS.		A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.		OF BUILDING.
6.5	NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL	10.6	RECESSED MEDICINE CABINET. SEE INT. ELEVS.		
	DRAWINGS.		PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER		
6.6	EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED,		HEATER. SEE PLUMBING DWGS.		
	AND REPAINTED.	10.8	NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS.		





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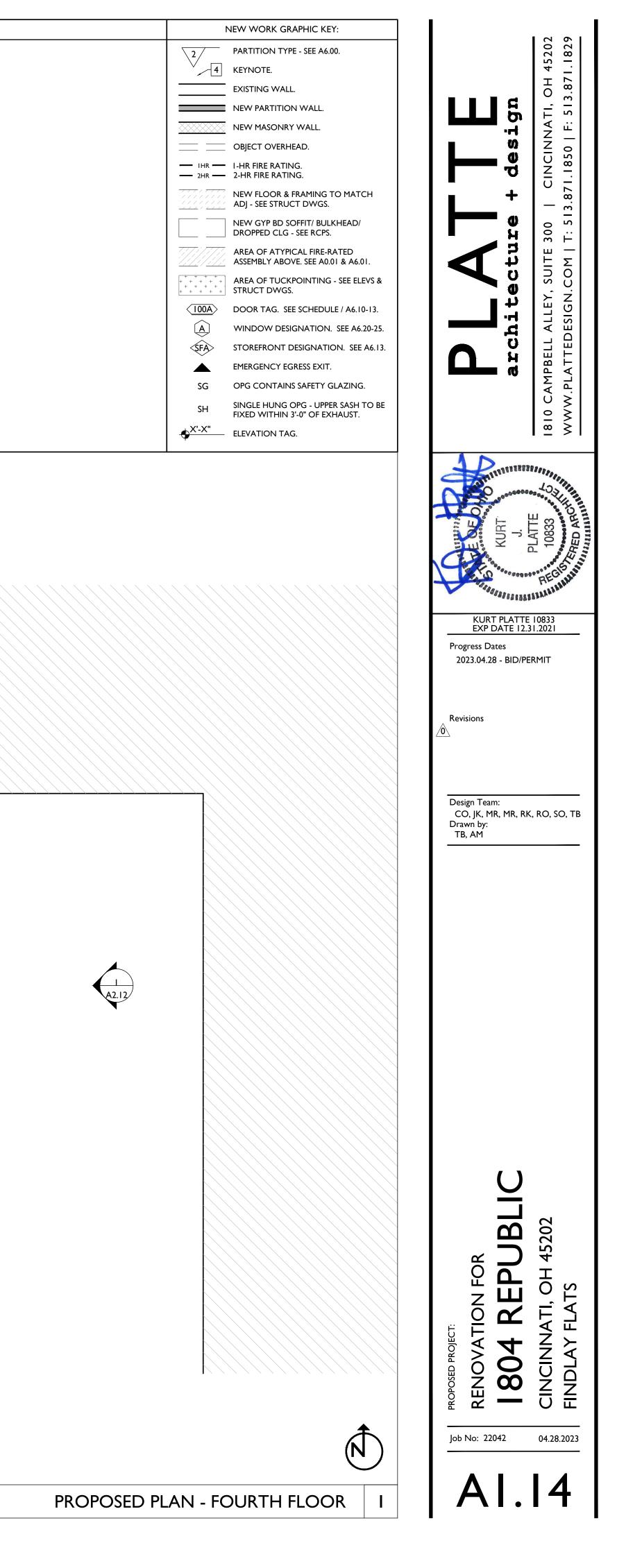
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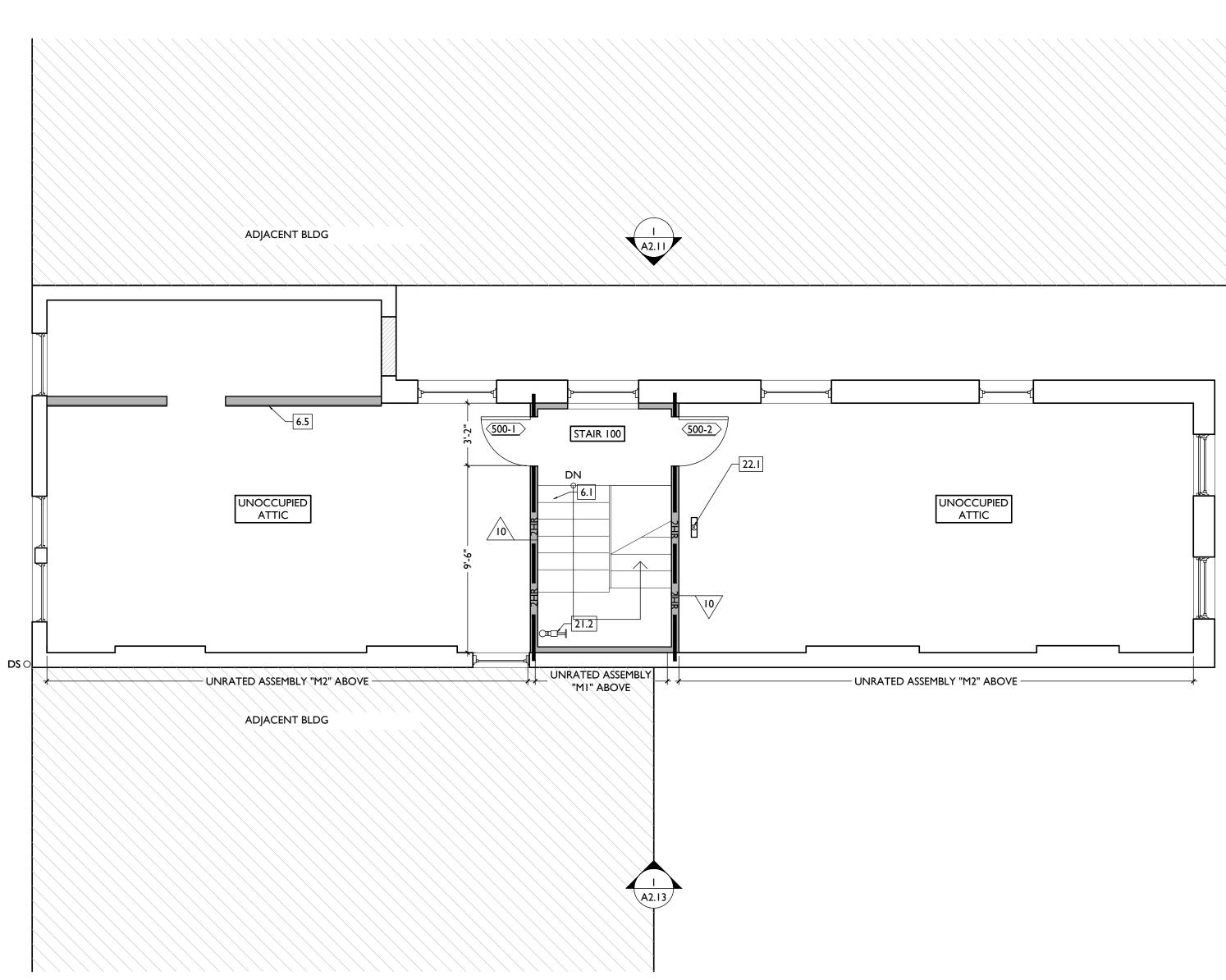
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CONDUIT ON FACE



CON	S IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST MPLY W/ APPROVED PART 2, INCLUDING AMENDMENTS. SE DOCUMENTS ARE PART OF THE PROJECT	7. T 7.1	THERMAL AND MOISTURE PROTECTION REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED	10.9	INTERIOR ELEVATIONS AND FINISH SCHEDULE SHOWER NICHE. SEE ENLARGED PLANS, INTER AND DETAIL 1/A5.00
	NTRACT DOCUMENTS.	/.1	ALUMINUM DOWNSPOUT.		
		7.2		21.	FIRE SUPPRESSION
	ED NOTES		REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS	21.1	APPROX LOCATION OF FDC CONNECTION -
	D NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES		& METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION		FIRE DEPT.
	Y. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES			21.2	PROPOSED SPRINKLER RISER LOCATION. COC
-	ER THAN WHERE THEY OCCUR. THE CONTRACTOR IS	7.3	NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.		FIRE SUPPRESSION CONTRACTOR.
	ONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES			21.3	EXTERIOR TAMPER/FLOW NOTIFICATION DEV
REG/	ARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.	7.4	NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.		COORDINATE WITH ELECTRICAL AND FIRE PR SYSTEMS
ALL	KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. C	DPENINGS		
		8.I			PLUMBING
	CONCRETE			22.I	PROVIDE PIPE IN WALL FRAMING FOR VAPOR
3.1	SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO	8.3	NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE		AS REQUIRED BY OWNER'S CONSULTANT. RIS
	SEWER. REPAIR AS REQUIRED.		DOOR SCHEDULE.		FROM BASEMENT TO ATTIC. SEE CONSULTAN
	EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE				LOCATIONS OF RISERS. COORDINATE WITH P
	GRADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR			22.2	PLUMBING CHASE (OR WALL) - VERIFY LOCATI
INFI	LL AND CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.	9.1	FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/		ALIGN CONCEALMENT BETWEEN FLOORS.
				22.3	HOSEBIB LOCATION. SEE PLUMBING.
	1ASONRY NEW OR EXPANDED OPENING IN EXG MASONRY WALL.		INTERSECTION W/ NON-RATED WALL.	~~	LIFATING VENTU ATING AND AD COND
4.1	PROVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL	10			HEATING, VENTILATING, AND AIR CONDI MECHANICAL UNIT(S) - WALKING PADS TO & .
	DWGS		SPECIALTIES LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C	23.1	EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPM
	Biid3	10.1	STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT		ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
5 N	1ETALS		FIRE-RATING BEHIND MAILBOXES, WHEN REQ.		SEE HVAC & STRUCTURAL DWGS.
		10.2		222	NOT USED.
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5.2	NEW ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE.	10.5	MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:	25.5	ADJACENT WALL SURFACE.
5.4			A. TYP. REACH-IN CLOSET		
			B. WALK-IN CLOSET.	26.	ELECTRICAL
6. \	WOOD, PLASTICS, AND COMPOSITES				ELECTRIC PANEL RECESSED IN WALL W/ 30"W
		10.4	PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL		FRONT. PAINT TO MATCH ADJACENT WALL
6.2			FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH		PAINT TYPE FOR PANEL.
6.3	NOT USED			26.2	NEW EXTERIOR LIGHTING. NO EXPOSED COM
6.4	NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE		A. SURFACE MOUNTED.		OF BUILDING.
	ELEVATIONS.		B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.		
6.5	NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL	10.6	RECESSED MEDICINE CABINET. SEE INT. ELEVS.		
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	AND REPAINTED.	10.8	NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		





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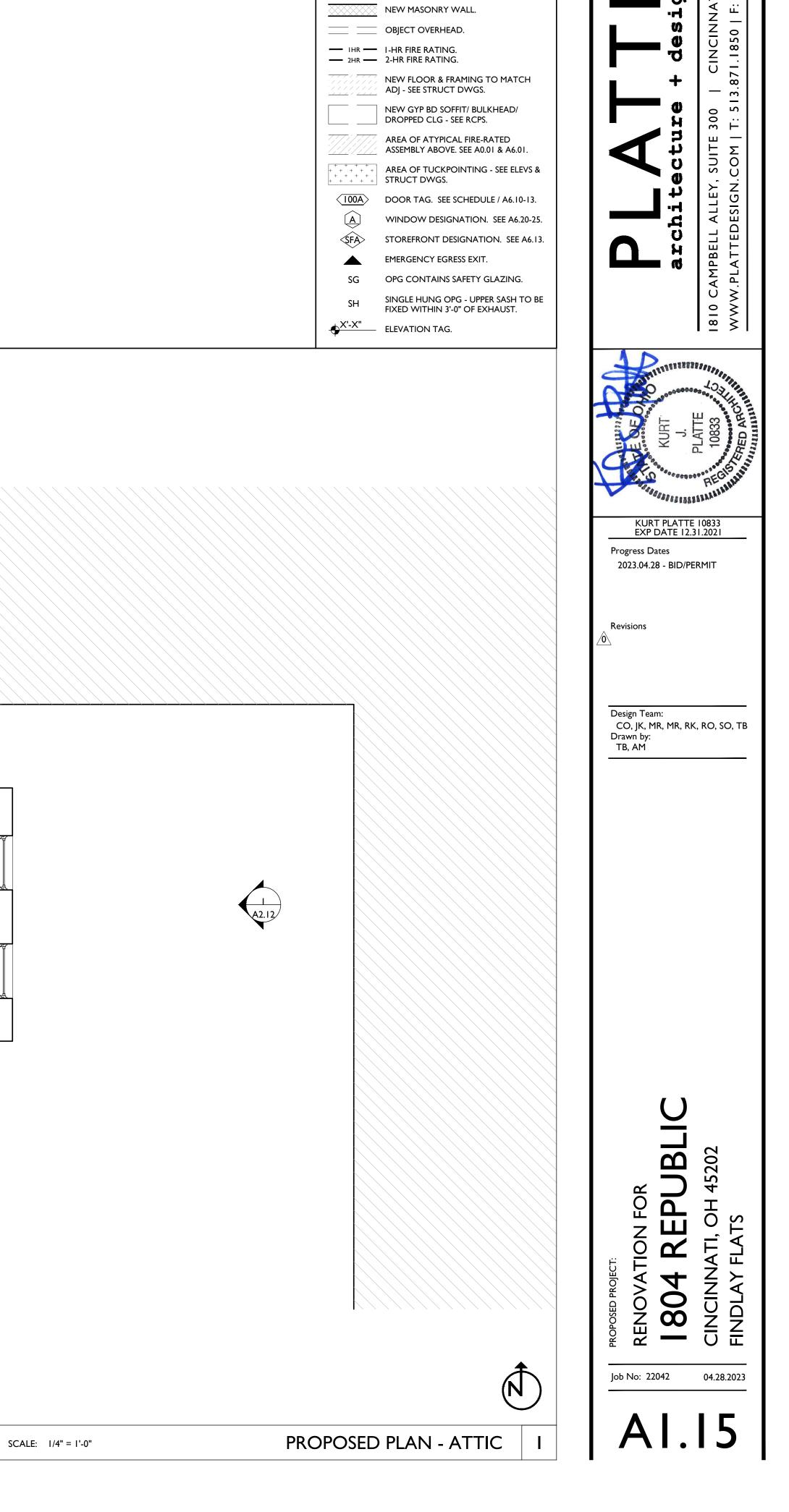
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CONDUIT ON FACE



NEW WORK GRAPHIC KEY:

PARTITION TYPE - SEE A6.00.

EXISTING WALL.

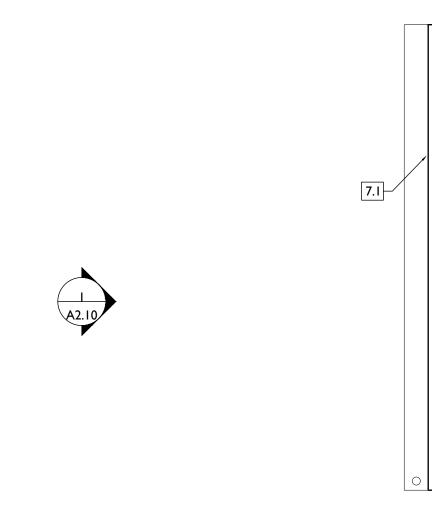
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4 KEYNOTE.

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KEYEI KEYEI ONLY OTHE RESPO REGA	D NOTES O NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES C. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OR THAN WHERE THEY OCCUR. THE CONTRACTOR IS DNSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES RDLESS OF THE CATEGORY IN WHICH THEY OCCUR.	7.3 7.4	NEW FULLY ADHERED MEMBRANE ROOF W/ CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS. BASIS OF DESIGN = BILCO E50TB, 36"X36". NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.	21.1 21.2	FIRE SUPPRESSION APPROX LOCATION OF FDC CONNECTION - FIRE DEPT. PROPOSED SPRINKLER RISER LOCATION. COC FIRE SUPPRESSION CONTRACTOR. EXTERIOR TAMPER/FLOW NOTIFICATION DEV COORDINATE WITH ELECTRICAL AND FIRE PR SYSTEMS
ALL K	EYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. C	DPENINGS NOT USED	22	PLUMBING
3.1	ONCRETE SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO SEWER. REPAIR AS REQUIRED. EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE	8.2	NOT USED NOT USED NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR SCHEDULE.		PROVIDE PIPE IN WALL FRAMING FOR VAPOR I AS REQUIRED BY OWNER'S CONSULTANT. RIS FROM BASEMENT TO ATTIC. SEE CONSULTAN LOCATIONS OF RISERS. COORDINATE WITH P
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6.I	YOOD, PLASTICS, AND COMPOSITES REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS. NEW FLOOR FRAMING (SEE STRUCT DWGS). NOT USED		B. WALK-IN CLOSET. C. ABOVE W/D. PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH	26.1	ELECTRICAL ELECTRIC PANEL RECESSED IN WALL W/ 30"W FRONT. PAINT TO MATCH ADJACENT WALL V PAINT TYPE FOR PANEL. NEW EXTERIOR LIGHTING. NO EXPOSED COM
6.4	NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE ELEVATIONS. NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL	10.6	LOCAL FIRE MARSHAL. A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. RECESSED MEDICINE CABINET. SEE INT. ELEVS.	20.2	OF BUILDING.
6.6	DRAWINGS. EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED, AND REPAINTED.		PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER HEATER. SEE PLUMBING DWGS. NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		



JLE. FERIOR ELEVATIONS

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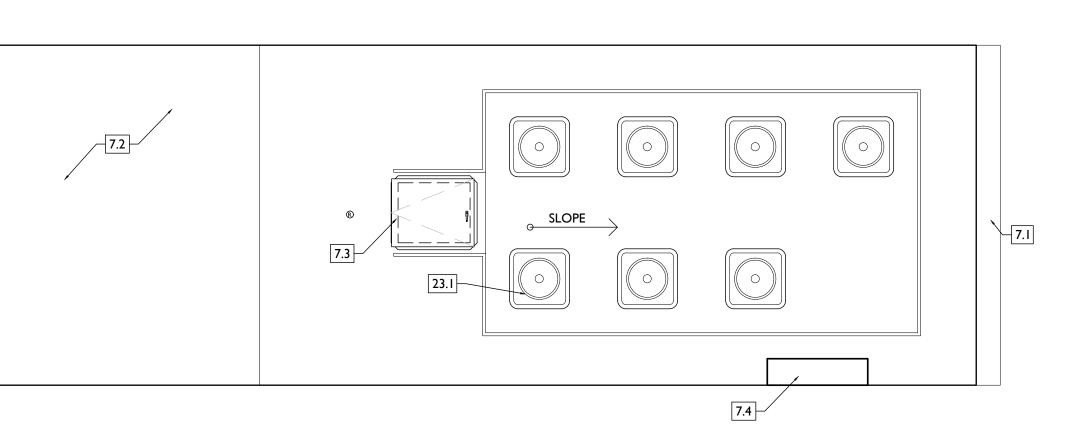
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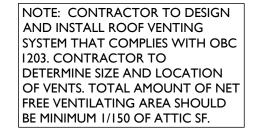
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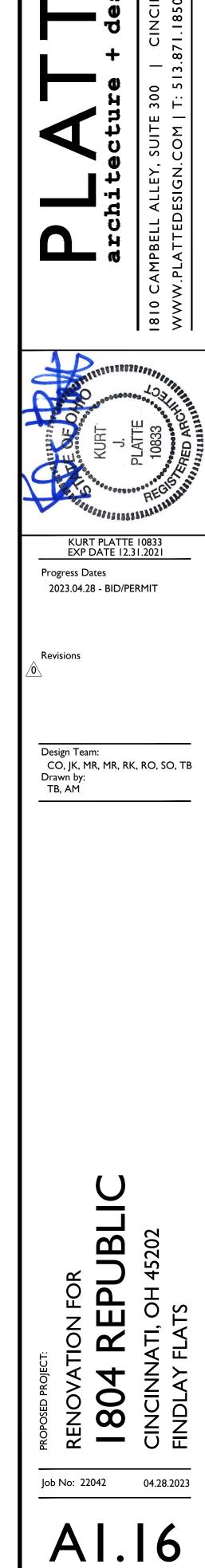




١	NEW WORK GRAPHIC KEY:
2/	PARTITION TYPE - SEE A6.00.
4	KEYNOTE.
	EXISTING WALL.
	NEW PARTITION WALL.
	NEW MASONRY WALL.
	OBJECT OVERHEAD.
	I-HR FIRE RATING. 2-HR FIRE RATING.
- 	NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS.
	NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS.
	AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. SEE A0.01 & A6.01.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AREA OF TUCKPOINTING - SEE ELEVS & STRUCT DWGS.
<u>(100A</u>)	DOOR TAG. SEE SCHEDULE / A6.10-13.
A	WINDOW DESIGNATION. SEE A6.20-25.
SFA	STOREFRONT DESIGNATION. SEE A6.13.
	EMERGENCY EGRESS EXIT.
SG	OPG CONTAINS SAFETY GLAZING.
SH	SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST.
• X'-X"	ELEVATION TAG.



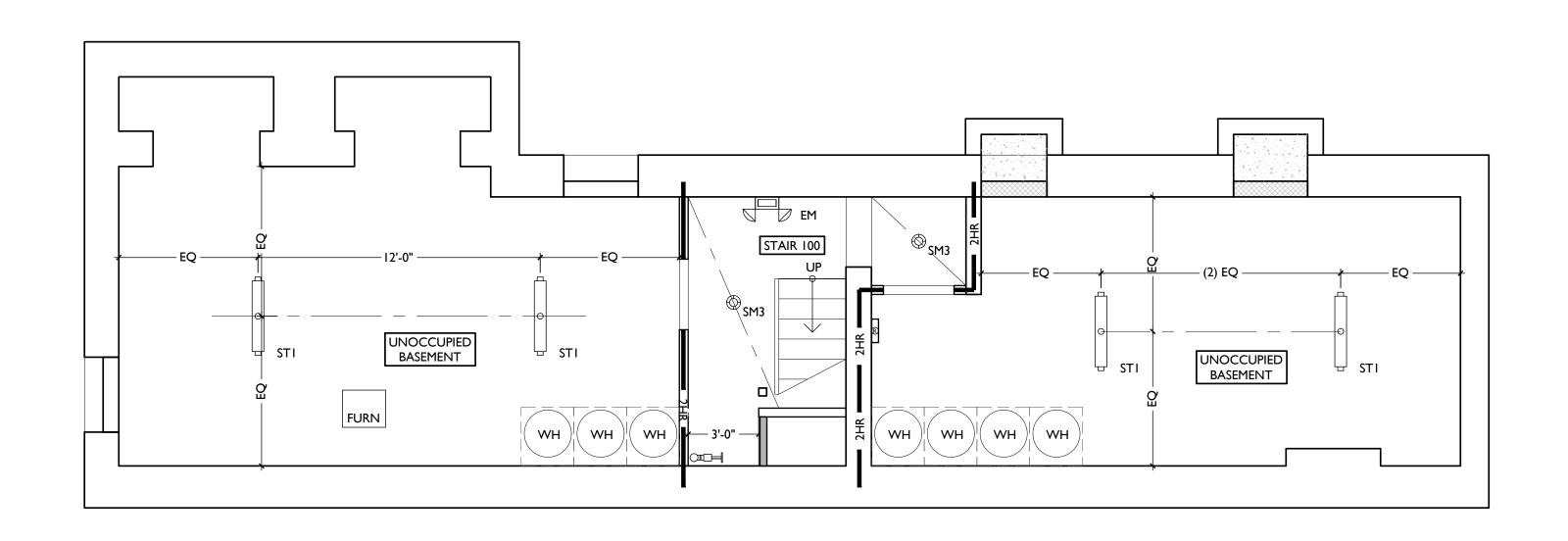


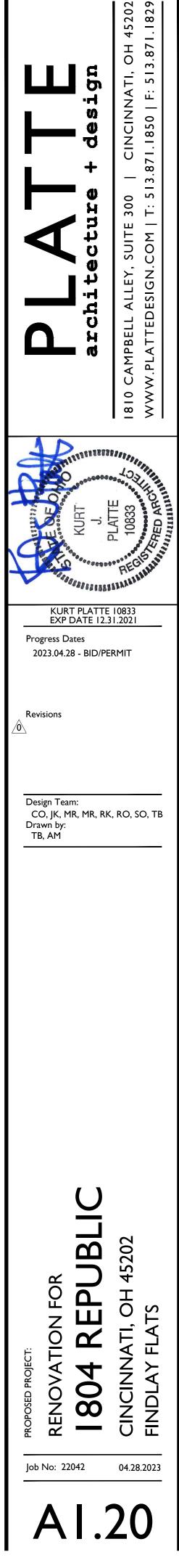


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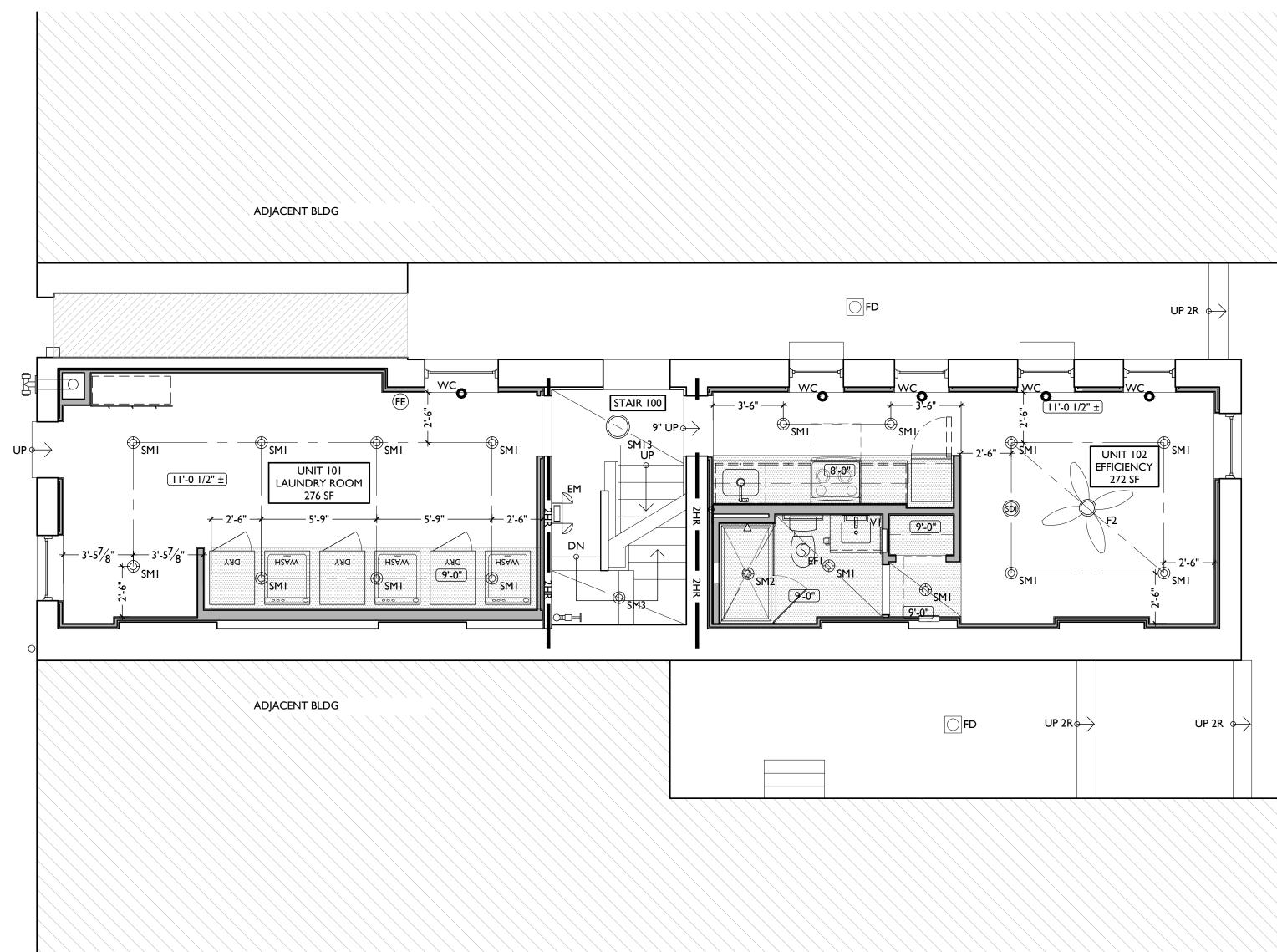
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				REFLEC	FED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:	R	EFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS			
© smi	SURFACE MOUNT	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.				RHI	EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	A. <u>NOTE:</u> THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED IN ARCH DWGS.	(CH: 8'-0")	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.)
© sm2 © sm3	LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS. SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS		EMERGENCY	EMERGENCY EGRESS LIGHT WALL PACK	B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F.		SOFFIT/LOWERED GYP BD CEILING AREA OF ATYPICAL FIRE-RATING. SEE PLANS &
	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				EM	EGRESS LIGHT		 E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH 		SHEET A0.01
			F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WCO	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES							 H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. 	(NL) (OS)	DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
○ ♪ STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID		COMBO SMOKE/CARBON MONOXIDE DETECTOR IONIZATION (TYP BEDROOMS)
VI آ	WALL MOUNT VANITY LIGHT	VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	wm		EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	<u>لو</u>	PHOTOELECTRIC CENTER ON ARCHITECTURAL FEATURE
V2 □□		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.		EXTERIOR LIGHT							STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	SURFACE MOUNT	DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	ES	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN						
- <u></u>	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
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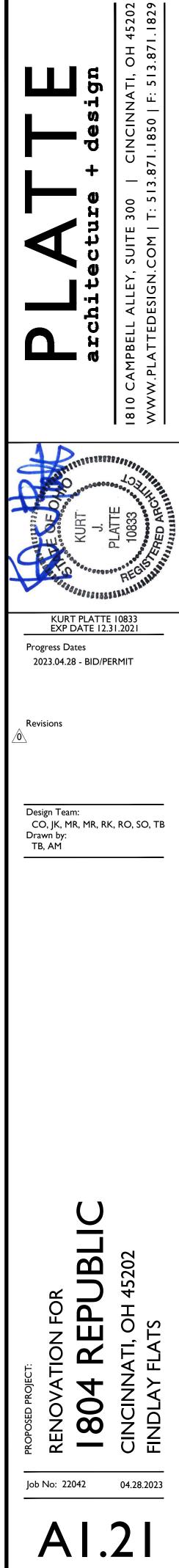




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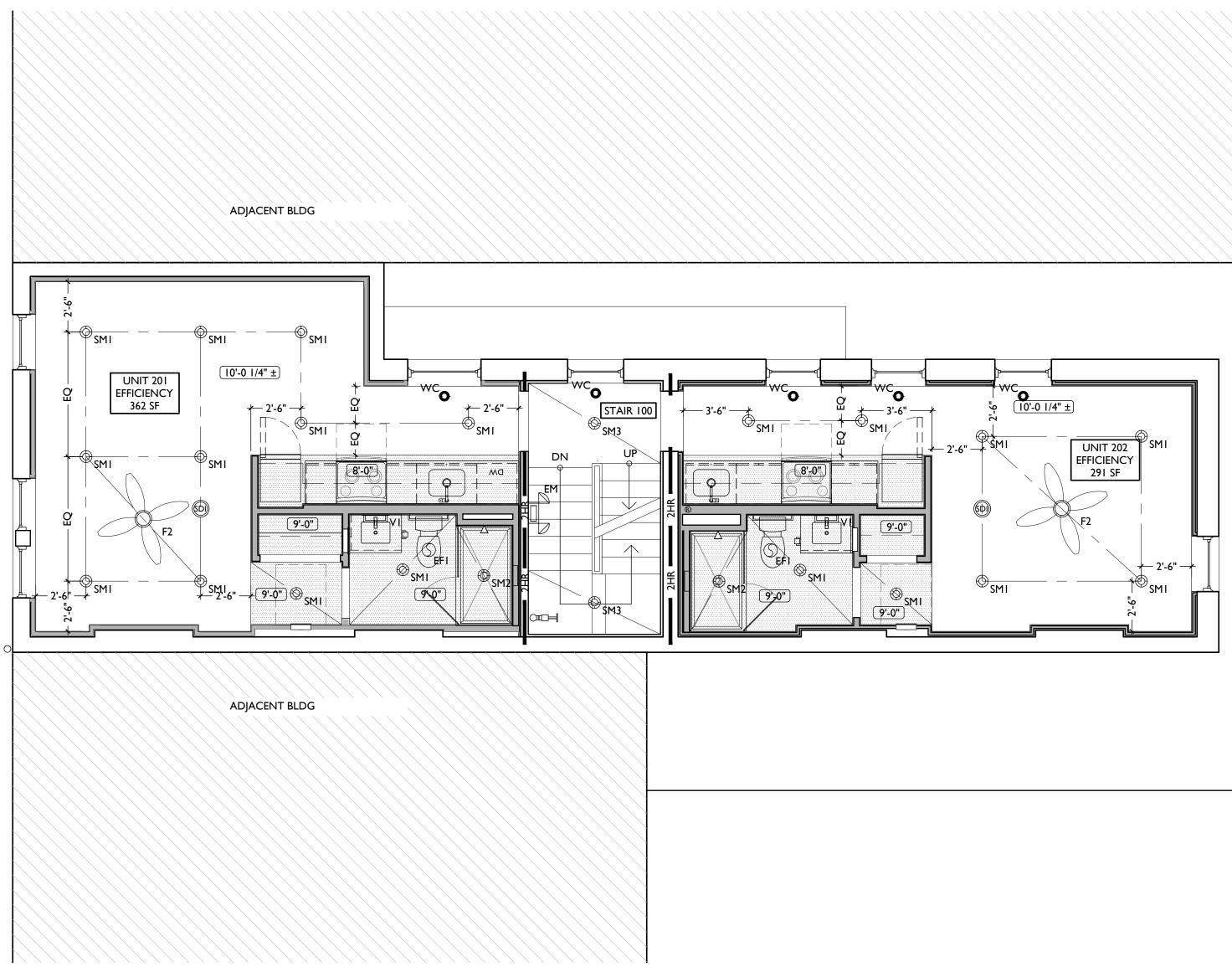


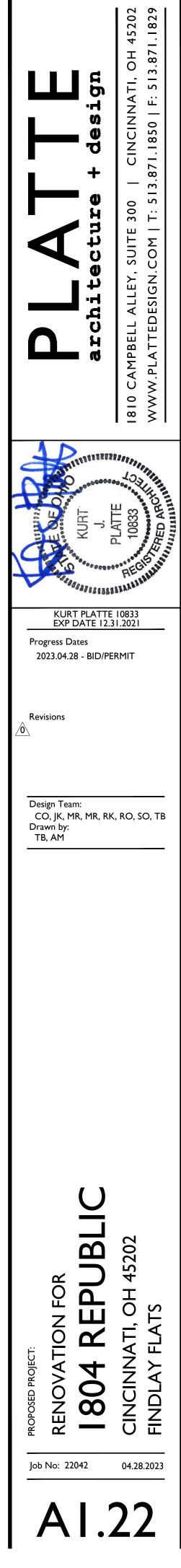




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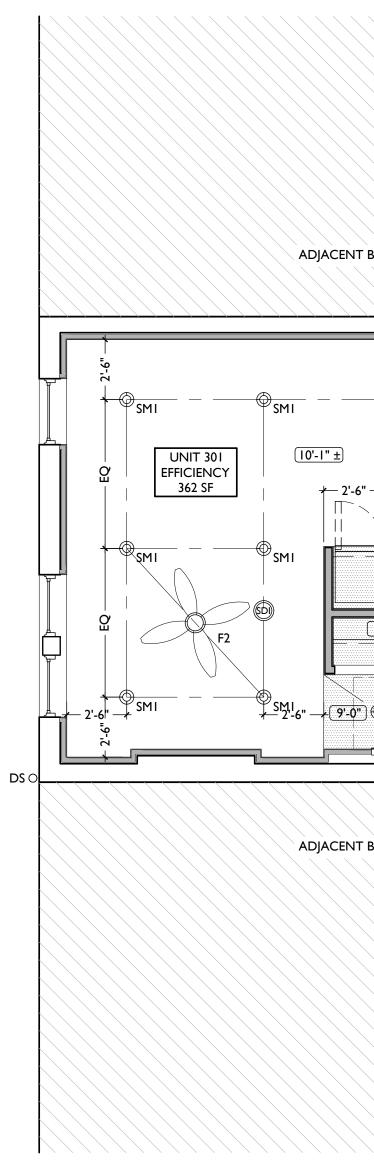
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SMI SURFACE MOUNT	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS. SM2 - DAMP RATED, TYPICAL IN SHOWERS.			EDROOMS AND LIVING ROOMS	RHI	EMERGENCY EGRESS LIGHT	AD EMERGENCY EGRESS LIGHT	A. <u>NOTE:</u> THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED IN ARCH DWGS.	(CH: 8'-0")	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
	SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI	WITH LIGHT		EM	EMERGENCY EGRESS LIGHT	RESS LIGHT WALL PACK	 B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED 		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	CEILING FAN WITH LIGHT	EDROOM AND LIVING ROOM				 DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM. H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN 	WC (NL)	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS DENOTES NIGHT LIGHT FIXTURE
SM8 SM8 SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS		WALL MOUNT EXTERIOR LIGHT EXTERIOR ARCHITECTURA	AL UP-DOWN LIGHT				CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID	(OS)	DENOTES OCCUPANCY SENSOR COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS)
VANITY LIGHT	VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS. V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL	WM5	WALL MOUNT EXTERIOR LIGHT EXTERIOR ARCHITECTURA	AL GOOSENECK LIGHT				PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	<u>وروم</u> 	PHOTOELECTRIC CENTER ON ARCHITECTURAL FEATURE STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
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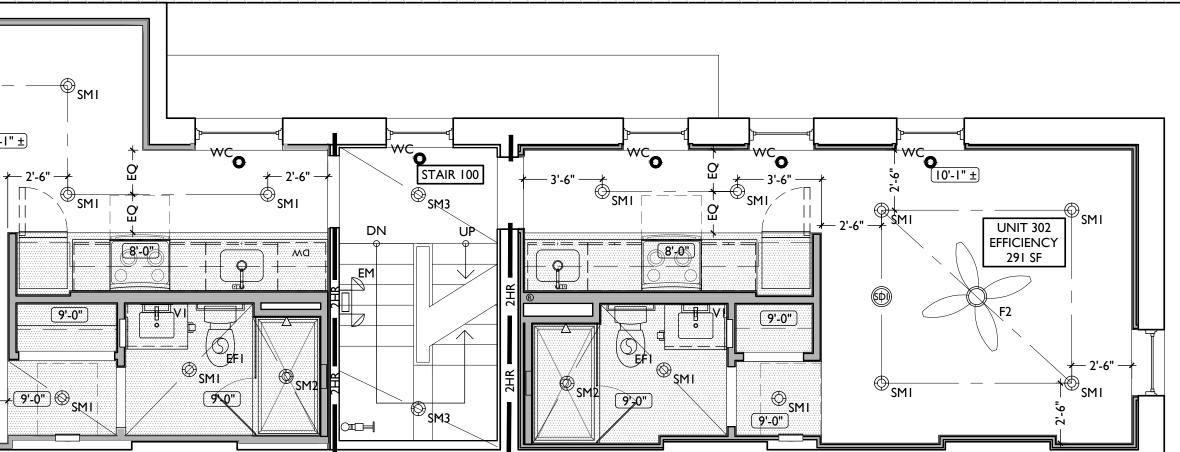


REFLECTED CEILING PLAN - SECOND FLOOR

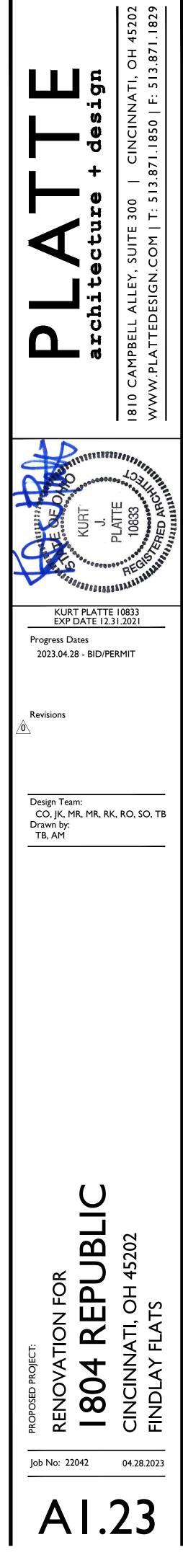
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Image: Smile signed sind signed sind signed signed signed signed signed sign		CEILING FAN SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI	EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	 A. <u>NOTE:</u> THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. 	(CH: 8'-0")	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
SM3 SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI FI	WITH LIGHT	EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3 SURFACE MOUNT ENTRY LIGHT STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY SURFACE MOUNT SURFACE MOUNT	F2	CEILING FAN WITH LIGHT LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				 DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM. 	WC O	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8 SMFACE MOUNT LINEAR LED TYPICAL IN COMMERCIAL TURNKEY SPACES						 H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. 	(NL) (OS)	DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
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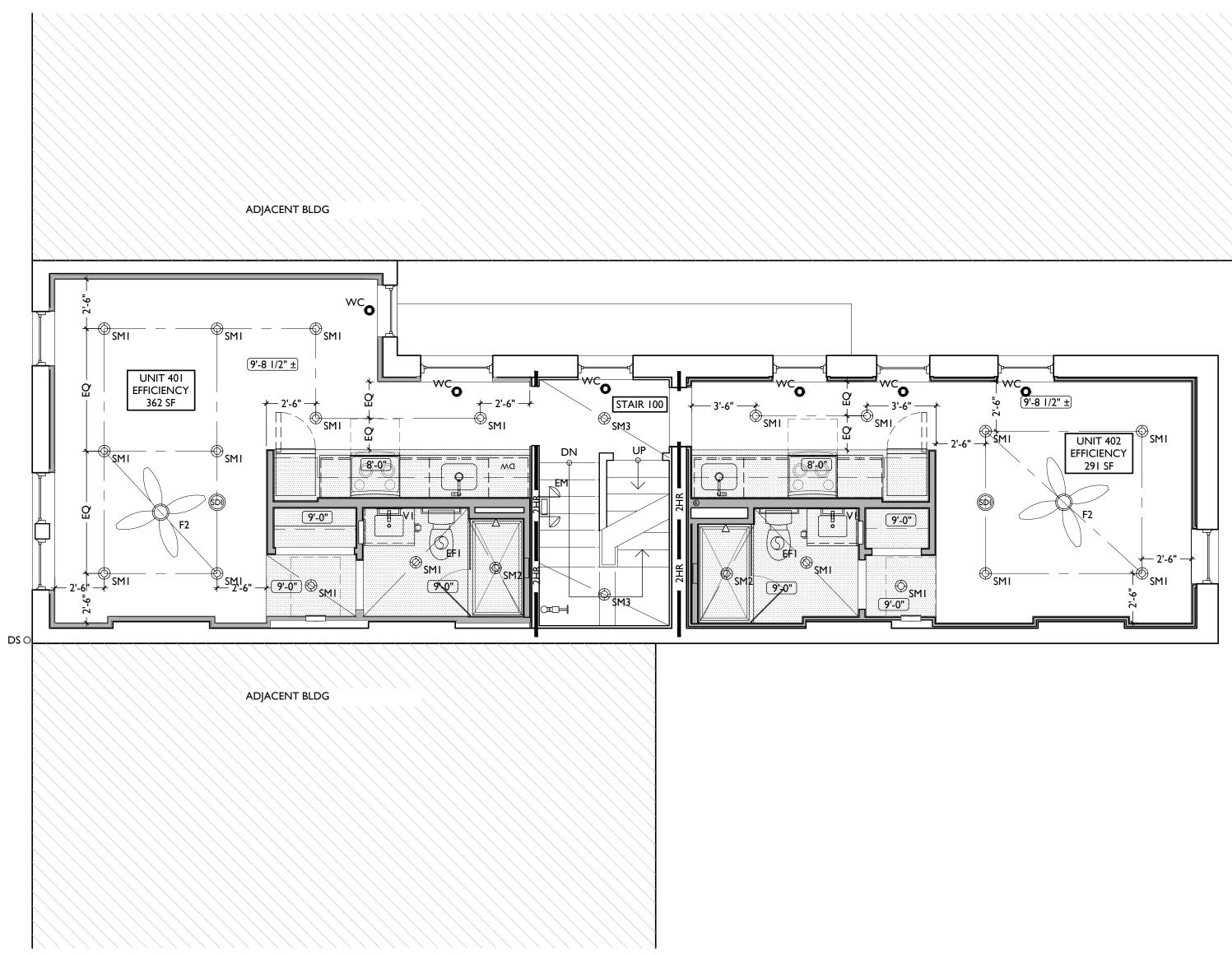
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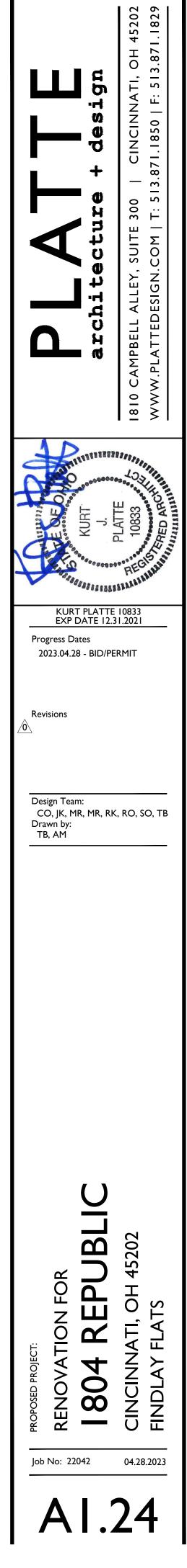


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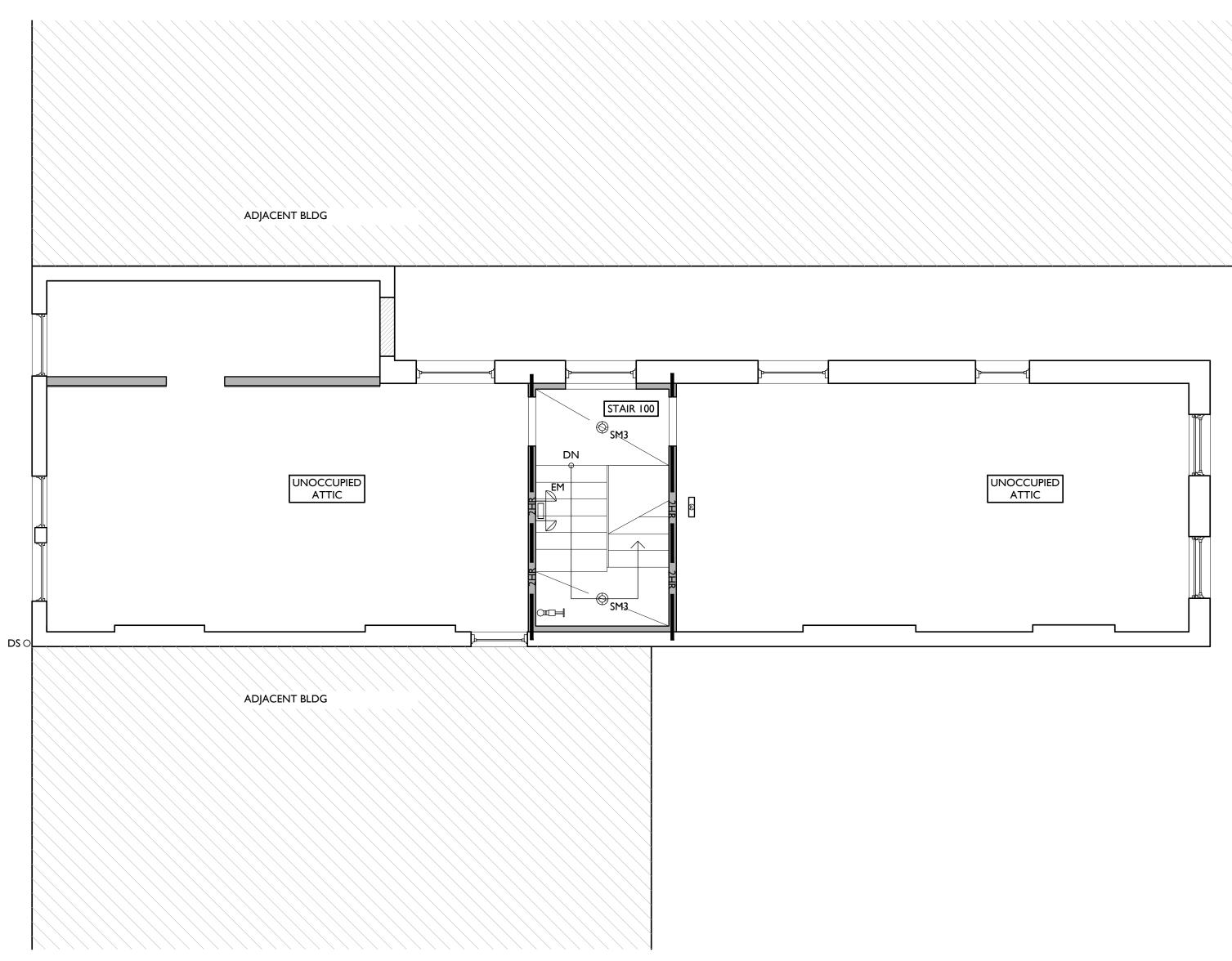
			REFLEC	TED CEILING PLAN FIXTURE LEGEND:					REFLECTED CEILING PLAN GENERAL NOTES:	I	REFLECTED CEILING PLAN GRAPHIC KEY:
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© SM3	SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI			EM	EMERGENCY EGRESS LIGHT	EMERGENCY EG	ESS LIGHT WALL PACK	C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3 EN	RFACE MOUNT STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY RFACE MOUNT TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM					 DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM. H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. 	WC O (NL) (OS)	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
	RFACE MOUNT ILITY FIXTURE TYPICAL IN ATTICS AND IN BASEMENTS		WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT					 J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO 	SD) SD)	COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS) PHOTOELECTRIC
	/ALL MOUNT VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL ANITY LIGHT RESIDENTIAL UNITS. /ALL MOUNT V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL	WM5	WALL MOUNT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT					ACCOMMODATE THIS.	–	CENTER ON ARCHITECTURAL FEATURE STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
	ANITY LIGHT RESIDENTIAL UNITS. RFACE MOUNT DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN RACK LIGHT LOBBIES	ES ES	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN							
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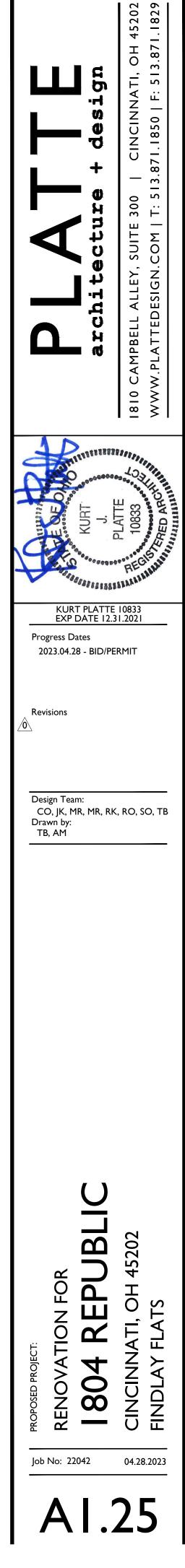




EXISTING + DEMOLITION PLAN - FOURTH FLOOR

		REFLECTED CEILING PLAN FIXTURE LEGEND:			REFLECTED CEILING PLAN GENERAL NOTES:	REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL FIXTURE TYPE REMARKS	SYMBOL	FIXTURE TYPE REMARKS	SYMBOL FIXTURE TYPE	REMARKS	A. NOTE: THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST	
Image: Smile signed sind signed sind signed signed signed signed signed sign		CEILING FAN SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED IN ARCH DWGS.	CH: 8'-0" CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
SM3 SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI	WITH LIGHT	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	 B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED 	AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3 SURFACE MOUNT ENTRY LIGHT STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY		CEILING FAN			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE	WCO WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8 SURFACE MOUNT LINEAR LED TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	WITH LIGHT			MINIMUM. H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS.	(NL)DENOTES NIGHT LIGHT FIXTURE(OS)DENOTES OCCUPANCY SENSOR
SURFACE MOUNT STI SURFACE MOUNT UTILITY FIXTURE TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT EXTERIOR ARCHITECTURAL UP-DOWN LIGHT			J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID	COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS)
VI WALL MOUNT VANITY LIGHT VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	⊕ wms	5 WALL MOUNT EXTERIOR LIGHT EXTERIOR ARCHITECTURAL GOOSENECK LIGHT			PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	PHOTOELECTRIC
V2WALL MOUNTV2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICALIIIVANITY LIGHTRESIDENTIAL UNITS.						STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
Image: subscript of the second sec	ES	EMERGENCY EGRESS LIGHT EMERGENCY EGRESS EXIT SIGN				
BI SURFACE MOUNT TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT EMERGENCY EGRESS EXIT SIGN W/ LIGHTS				
	S _{efi}	BATHROOM VENT TYPICAL BATHROOM EXHAUST FAN/VENT				





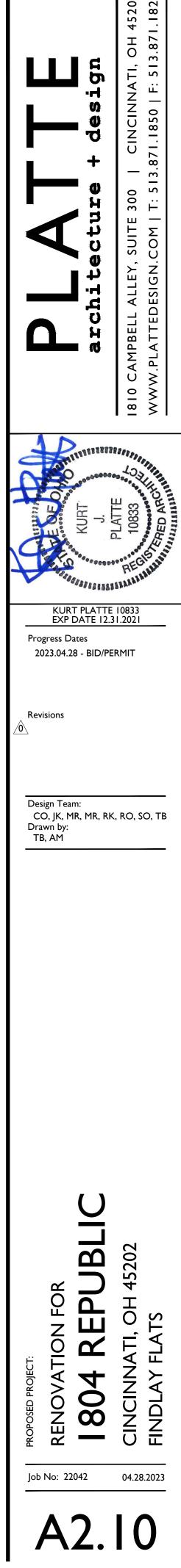
SCALE: 1/4" = 1'-0" EXISTING + DEMOLITION PLAN - FIFTH FLOOR

		NE
THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST		INTERIOR ELEVATIONS AND FINISH SCHEDULE.
COMPLY W/ APPROVED PART 2, INCLUDING AMENDMENTS.	7. THERMAL AND MOISTURE PROTECTION	10.9 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS
THESE DOCUMENTS ARE PART OF THE PROJECT	7.1 REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED	AND DETAIL I/A5.00
CONTRACT DOCUMENTS.	ALUMINUM DOWNSPOUT.	
		21. FIRE SUPPRESSION
KEYED NOTES	REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS	21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/
KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES	& METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION	FIRE DEPT.
ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES	PER SCHEDULE.	21.2 PROPOSED SPRINKLER RISER LOCATION. COORDINATE WITH
OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS	7.3 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.	FIRE SUPPRESSION CONTRACTOR.
RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES	BASIS OF DESIGN = BILCO E50TB, 36"X36".	21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE -
REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.	7.4 NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.	COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS
ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. OPENINGS	
	8.1 NOT USED	22. PLUMBING
3. CONCRETE	8.2 NOT USED	22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER,
3.1 SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO	8.3 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE	AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND
SEWER. REPAIR AS REQUIRED.	DOOR SCHEDULE.	FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR
3.2 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE		LOCATIONS OF RISERS. COORDINATE WITH PLUMBING.
AT GRADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR	9. FINISHES	22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO
INFILL AND CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.	9.1 FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/	ALIGN CONCEALMENT BETWEEN FLOORS.
	FURRING WALL. FIRE RATING TO BE CONTINUOUS AT	22.3 HOSEBIB LOCATION. SEE PLUMBING.
4. MASONRY	INTERSECTION W/ NON-RATED WALL.	
4.1 NEW OR EXPANDED OPENING IN EXG MASONRY WALL.		23. HEATING, VENTILATING, AND AIR CONDITIONING
PROVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL	10. SPECIALTIES	23.1 MECHANICAL UNIT(S) - WALKING PADS TO & AROUND
DWGS	10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C	EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT <10' FROM
	STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT	ROOF EDGE. PROVIDE OVER-FRAMED PLATFORM PER 11/A5.00.
5. METALS	FIRE-RATING BEHIND MAILBOXES, WHEN REQ.	SEE HVAC & STRUCTURAL DWGS.
5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS.	10.2 ENTRY SECURITY SYSTEM CALL BOX.	23.2 NOT USED.
5.2 NEW STEEL GUARDRAIL. SEE DETAILS.	10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"	23.3 NEW EXHAUST / INTAKE VENT COVER. PAINT TO MATCH
5.3 NEW ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE.	MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:	ADJACENT WALL SURFACE.
5.4 EXG. FIRE ESCAPE TO REMAIN.	A. TYP. REACH-IN CLOSET	
	B. WALK-IN CLOSET.	26. ELECTRICAL
6. WOOD, PLASTICS, AND COMPOSITES	C. ABOVE W/D.	26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN
6.1 REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS.	10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL	FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE
6.2 NEW FLOOR FRAMING (SEE STRUCT DWGS).	10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH	PAINT TYPE FOR PANEL.
6.3 NOT USED	LOCAL FIRE MARSHAL.	26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE
6.4 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE	A. SURFACE MOUNTED.	OF BUILDING.
ELEVATIONS.	B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.	
6.5 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL	10.6 RECESSED MEDICINE CABINET. SEE INT. ELEVS.	
DRAWINGS.	10.7 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER	
6.6 EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED,	HEATER. SEE PLUMBING DWGS.	
AND REPAINTED.	10.8 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,	



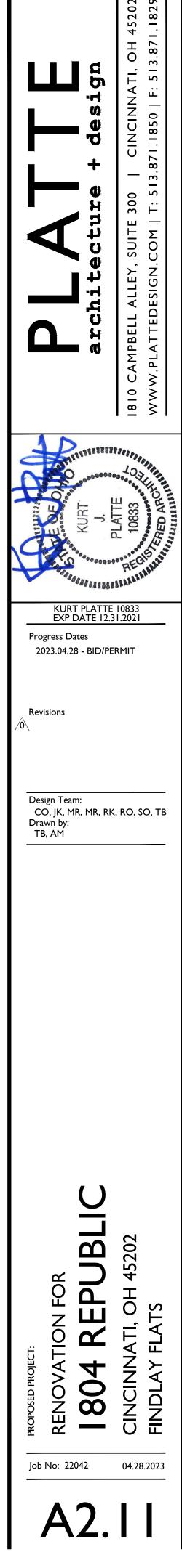
NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

١	NEW WORK GRAPHIC KEY:
2/	PARTITION TYPE - SEE A6.00.
4	KEYNOTE.
	EXISTING WALL.
	NEW PARTITION WALL.
	NEW MASONRY WALL.
	OBJECT OVERHEAD.
	I-HR FIRE RATING. 2-HR FIRE RATING.
	NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS.
	NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS.
	AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. SEE A0.01 & A6.01.
$\begin{array}{c} + & + & + & + \\ + & + & + & + & + \\ + & + &$	AREA OF TUCKPOINTING - SEE ELEVS & STRUCT DWGS.
< <u>100A</u> >	DOOR TAG. SEE SCHEDULE / A6.10-13.
Â	WINDOW DESIGNATION. SEE A6.20-25.
SFA	STOREFRONT DESIGNATION. SEE A6.13.
	EMERGENCY EGRESS EXIT.
SG	OPG CONTAINS SAFETY GLAZING.
SH	SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST.
★X'-X"	ELEVATION TAG.





1	NEW WORK GRAPHIC KEY:
2/	PARTITION TYPE - SEE A6.00.
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	EXISTING WALL.
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COM	IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST PLY W/ APPROVED PART 2, INCLUDING AMENDMENTS.	7. т	HERMAL AND MOISTURE PROTECTION	10.9	INTERIOR ELEVATIONS AND FINISH SCHEDULE SHOWER NICHE. SEE ENLARGED PLANS, INTER
	SE DOCUMENTS ARE PART OF THE PROJECT	7.I	REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED		AND DETAIL I/A5.00
CON	TRACT DOCUMENTS.		ALUMINUM DOWNSPOUT.		
		7.2			FIRE SUPPRESSION
			REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS	21.1	
	D NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES (. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES		& METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION	21.2	FIRE DEPT.
	ER THAN WHERE THEY OCCUR. THE CONTRACTOR IS	7 2	PER SCHEDULE. NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.	21.2	PROPOSED SPRINKLER RISER LOCATION. COC FIRE SUPPRESSION CONTRACTOR.
	DNSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES	7.5		213	EXTERIOR TAMPER/FLOW NOTIFICATION DEV
	RDLESS OF THE CATEGORY IN WHICH THEY OCCUR.	7.4	NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.	21.5	COORDINATE WITH ELECTRICAL AND FIRE PE
ILC,		7.т	NEW ALOFT CAT & CHIMINET, THE & CHIMINETS.		SYSTEMS
ALL F	EYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8. C	PENINGS		
		8.1	NOT USED	22.	PLUMBING
	ONCRETE		NOT USED	22.I	PROVIDE PIPE IN WALL FRAMING FOR VAPOR
3.1	SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO	8.3			AS REQUIRED BY OWNER'S CONSULTANT. RI
	SEWER. REPAIR AS REQUIRED.		DOOR SCHEDULE.		FROM BASEMENT TO ATTIC. SEE CONSULTAN
	EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE				LOCATIONS OF RISERS. COORDINATE WITH P
	GRADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR		INISHES	22.2	PLUMBING CHASE (OR WALL) - VERIFY LOCAT
IINFII	L AND CIVIL FOR CONCRETE FLATWORK ABOVE OPENING.	9.1	FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/		ALIGN CONCEALMENT BETWEEN FLOORS.
4 N	IASONRY		FURRING WALL, FIRE RATING TO BE CONTINUOUS AT	22.3	HOSEBIB LOCATION. SEE PLUMBING.
	NEW OR EXPANDED OPENING IN EXG MASONRY WALL.		INTERSECTION W/ NON-RATED WALL.	22	HEATING, VENTILATING, AND AIR COND
т. і	PROVIDE NEW CAST STONE LINTEL AND SILL, SEE STRUCTURAL	10	SPECIALTIES		MECHANICAL UNIT(S) - WALKING PADS TO &
	DWGS		LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C	23.1	EQUIPMENT. GUARDRAIL REQUIRED IF EQUIP
		10.1	STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT		ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
5. M	IETALS		FIRE-RATING BEHIND MAILBOXES, WHEN REQ.		SEE HVAC & STRUCTURAL DWGS.
5.1	NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS.	10.2	ENTRY SECURITY SYSTEM CALL BOX.	23.2	NOT USED.
5.2	NEW STEEL GUARDRAIL. SEE DETAILS.		CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"	23.3	NEW EXHAUST / INTAKE VENT COVER. PAINT
5.3	NEW ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE.		MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:		ADJACENT WALL SURFACE.
5.4	EXG. FIRE ESCAPE TO REMAIN.		A. TYP. REACH-IN CLOSET		-
			B. WALK-IN CLOSET.		ELECTRICAL
	VOOD, PLASTICS, AND COMPOSITES		C. ABOVE W/D.	26.I	ELECTRIC PANEL RECESSED IN WALL W/ 30"W
6.1	REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS.		PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL		FRONT. PAINT TO MATCH ADJACENT WALL
	NEW FLOOR FRAMING (SEE STRUCT DWGS).	10.5	FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH		PAINT TYPE FOR PANEL.
6.3			LOCAL FIRE MARSHAL.	26.2	NEW EXTERIOR LIGHTING. NO EXPOSED CO
6.4	NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE ELEVATIONS.		A. SURFACE MOUNTED.		OF BUILDING.
45	NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL	10.4	B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.		
0.5	DRAWINGS.		RECESSED MEDICINE CABINET. SEE INT. ELEVS.		
66	EXG HISTORIC CORBEL AND TRIM TO BE CLEANED, PRIMED,	10.7	PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER HEATER. SEE PLUMBING DWGS.		
0.0	AND REPAINTED.	10.8	NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		

DULE. ITERIOR ELEVATIONS

- COORDINATE W/

COORDINATE WITH

DEVICE -RE PROTECTION

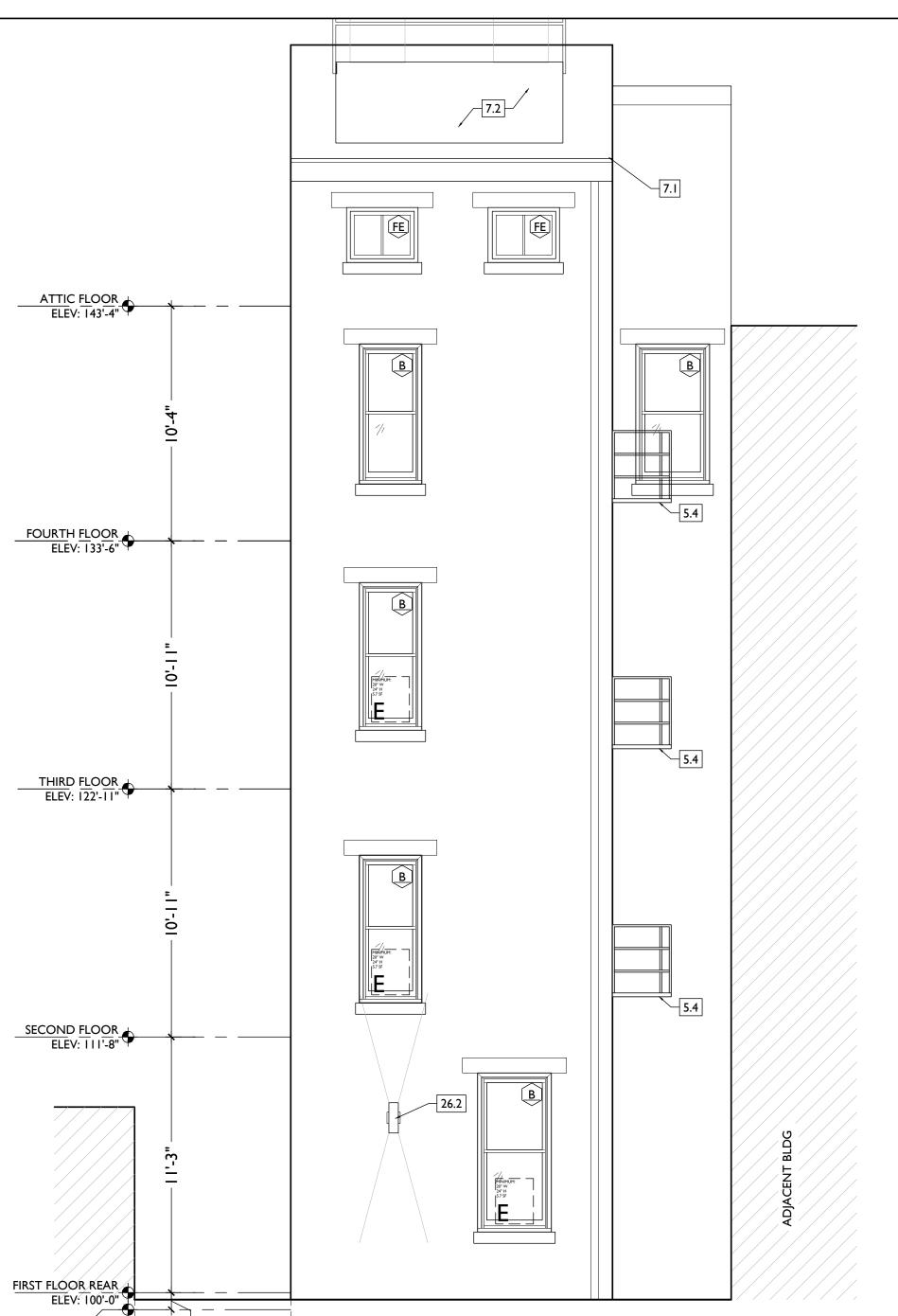
POR MITIGATION RISER, T. RISER TO EXTEND LTANT DESIGN FOR ITH PLUMBING. DCATIONS IN FIELD TO

DNDITIONING TO & AROUND QUIPMENT <10' FROM ATFORM PER 11/A5.00.

AINT TO MATCH

CONDUIT ON FACE

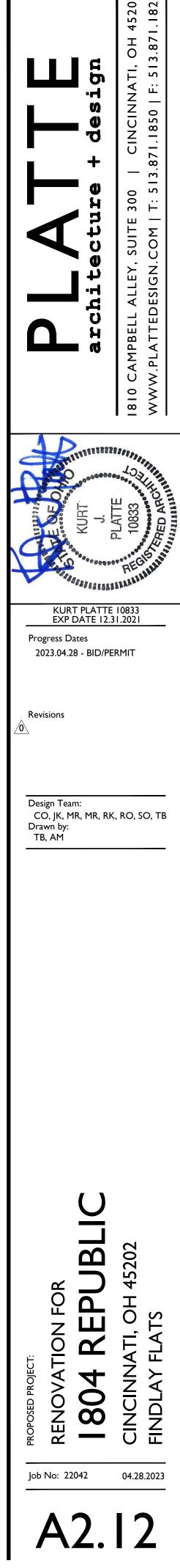
0"W X 36"D CLEAR IN ALL W APPROPRIATE



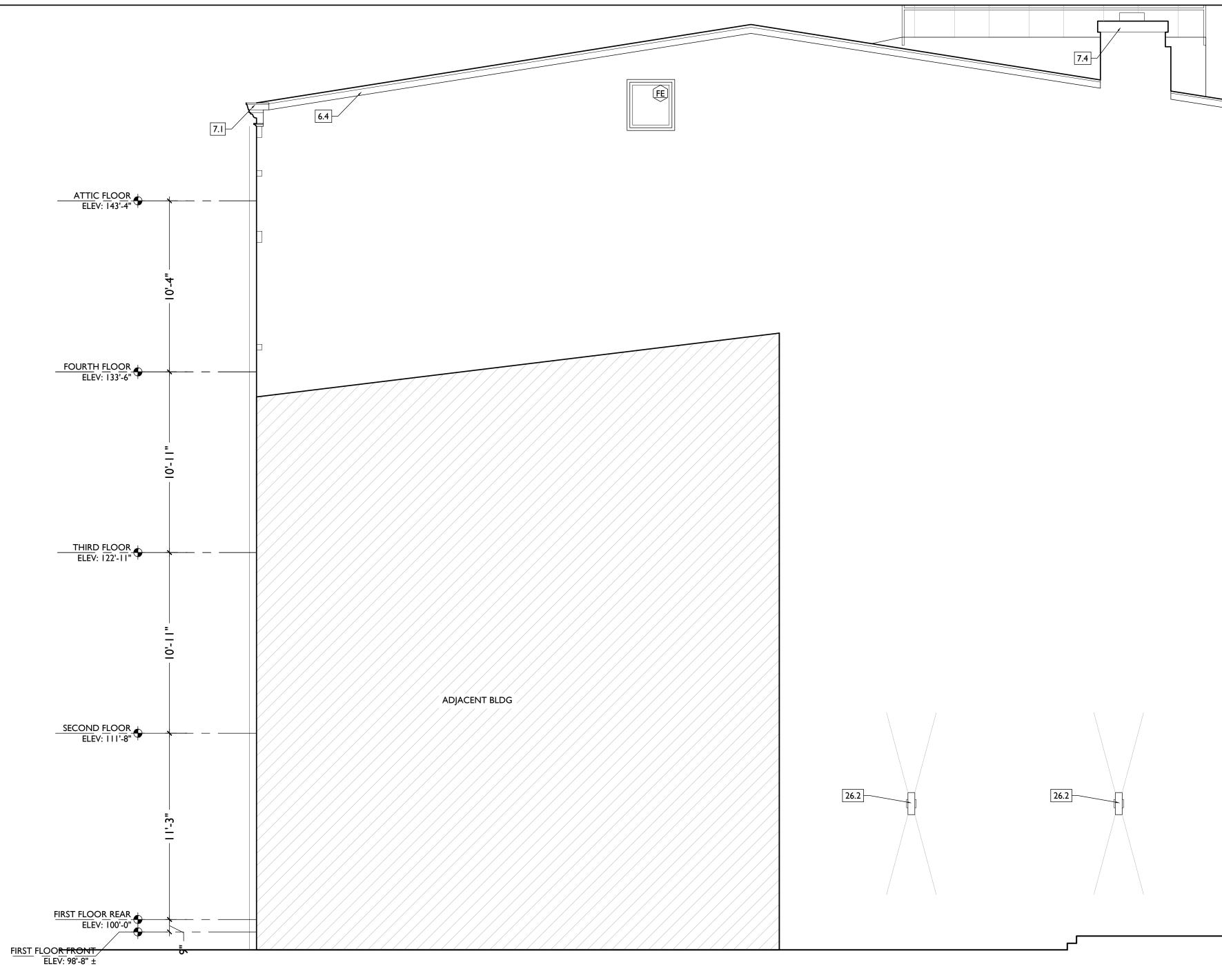
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FIRST FLOOR FRONT ELEV: 98'-8" ±

NEW WORK GRAPHIC KEY:
PARTITION TYPE - SEE A6.00.
4 KEYNOTE.
NEW PARTITION WALL.
NEW MASONRY WALL.
OBJECT OVERHEAD.
IHR I-HR FIRE RATING. 2HR 2-HR FIRE RATING.
NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS.
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AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. SEE A0.01 & A6.01.
+ + + + + + + + + + + + + + + + + + +
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THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST				INTERIOR ELEVATIONS AND FINISH SCHEDULE
COMPLY W/ APPROVED PART 2, INCLUDING AMENDMENTS.		THERMAL AND MOISTURE PROTECTION	10.9	SHOWER NICHE. SEE ENLARGED PLANS, INTER
THESE DOCUMENTS ARE PART OF THE PROJECT	7.1	REPAIR AND RELINE EXG BOX GUTTER; NEW PRE-FINISHED		AND DETAIL I/A5.00
CONTRACT DOCUMENTS.		ALUMINUM DOWNSPOUT.		
	7.2	NEW FULLY ADHERED MEMBRANE ROOF W/ CRICKETS WHERE		FIRE SUPPRESSION
		REQUIRED FOR POSITIVE DRAINAGE AND W/TERMINATION BARS	21.1	
KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES		& METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION		FIRE DEPT.
ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS		PER SCHEDULE.	21.2	PROPOSED SPRINKLER RISER LOCATION. COC
RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES	7.3		21.2	FIRE SUPPRESSION CONTRACTOR.
REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.		BASIS OF DESIGN = BILCO E50TB, 36"X36".	21.3	EXTERIOR TAMPER/FLOW NOTIFICATION DEV COORDINATE WITH ELECTRICAL AND FIRE PF
REGARDLESS OF THE CATEGORY IN WHICH THET OCCOR.	/.4	NEW ALUM CAP @ CHIMNEY. TYP @ CHIMNEYS.		SYSTEMS
ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.	8.	OPENINGS		51512115
		NOT USED	22.	PLUMBING
3. CONCRETE		NOT USED	22.1	PROVIDE PIPE IN WALL FRAMING FOR VAPOR
3.1 SLAB TO REMAIN. SCOPE & VERIFY FLOOR DRAINS CONNECT TO	8.3	NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE		AS REQUIRED BY OWNER'S CONSULTANT. RI
SEWER. REPAIR AS REQUIRED.		DOOR SCHEDULE.		FROM BASEMENT TO ATTIC. SEE CONSULTAN
3.2 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE				LOCATIONS OF RISERS. COORDINATE WITH P
AT GRADE. WALL TO BE INFILLED W/ CMU. SEE STRUCTURAL FOR	9.	FINISHES	22.2	PLUMBING CHASE (OR WALL) - VERIFY LOCAT
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PROVIDE NEW CAST STONE LINTEL AND SILL. SEE STRUCTURAL DWGS		SPECIALTIES	23.1	MECHANICAL UNIT(S) - WALKING PADS TO &
Dwgs	10.1	LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C		EQUIPMENT. GUARDRAIL REQUIRED IF EQUIP ROOF EDGE. PROVIDE OVER-FRAMED PLATFO
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5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS.	10.2	ENTRY SECURITY SYSTEM CALL BOX.	222	NOT USED.
5.2 NEW STEEL GUARDRAIL. SEE DETAILS.		CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"		NEW EXHAUST / INTAKE VENT COVER. PAINT
5.3 NEW ALUM. BREEZEWAY GATE. SEE DOOR SCHEDULE.	10.5	MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:	25.5	ADJACENT WALL SURFACE.
5.4 EXG. FIRE ESCAPE TO REMAIN.		A. TYP. REACH-IN CLOSET		
		B. WALK-IN CLOSET.	26.	ELECTRICAL
6. WOOD, PLASTICS, AND COMPOSITES		C. ABOVE W/D.		ELECTRIC PANEL RECESSED IN WALL W/ 30"W
6.1 REPAIR DAMAGED TREADS &/OR RISERS OF WOOD STAIRS.	10.4	PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL		FRONT. PAINT TO MATCH ADJACENT WALL
6.2 NEW FLOOR FRAMING (SEE STRUCT DWGS).		FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH		PAINT TYPE FOR PANEL.
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6.4 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE		A. SURFACE MOUNTED.		OF BUILDING.
ELEVATIONS.		B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.		
6.5 NEW WOOD FRAME BEARING WALL. SEE STRUCTURAL		RECESSED MEDICINE CABINET. SEE INT. ELEVS.		
DRAWINGS.	10.7	PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER		
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AND REPAINTED.	10.8	NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,		



DULE. NTERIOR ELEVATIONS

N - COORDINATE W/

COORDINATE WITH

DEVICE -RE PROTECTION

POR MITIGATION RISER, T. RISER TO EXTEND LTANT DESIGN FOR ITH PLUMBING. DCATIONS IN FIELD TO

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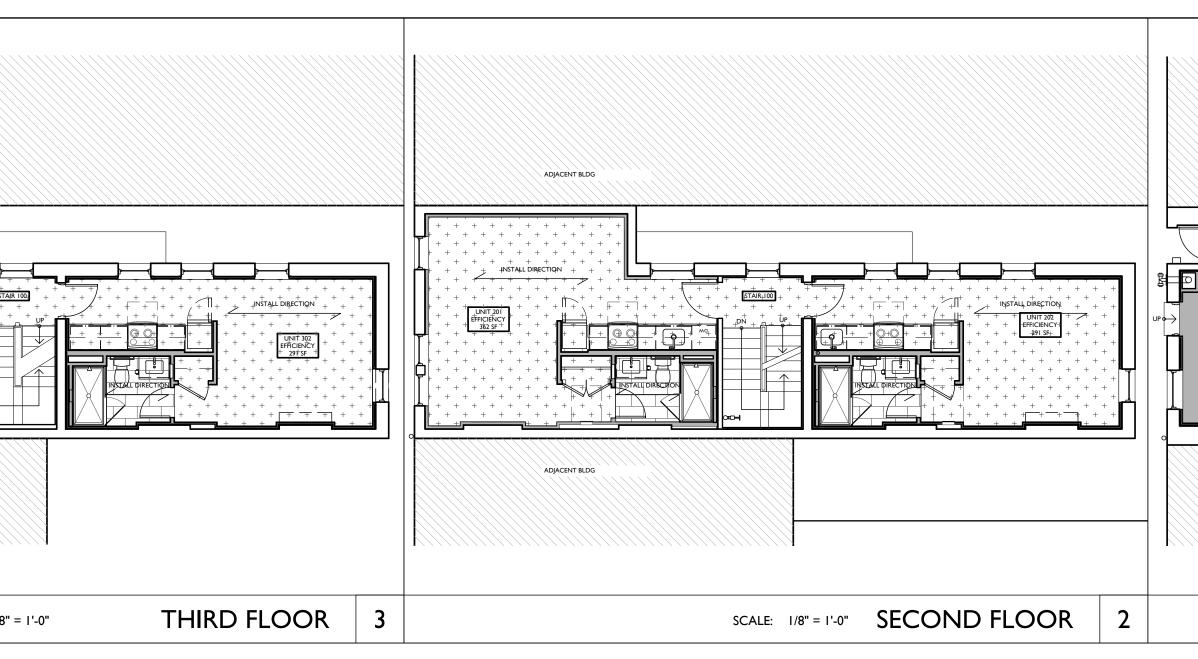
AINT TO MATCH

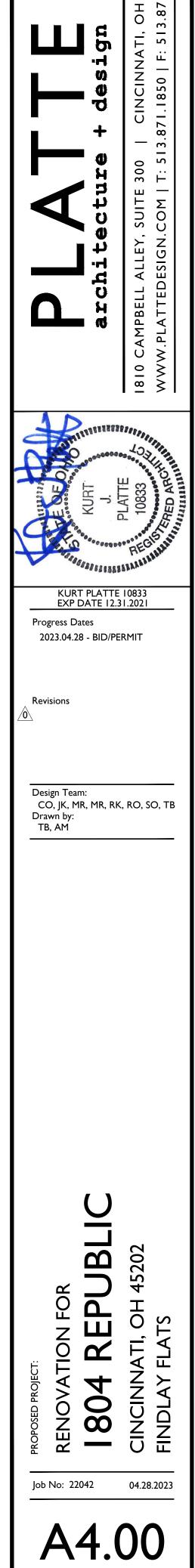
0"W X 36"D CLEAR IN ALL W APPROPRIATE

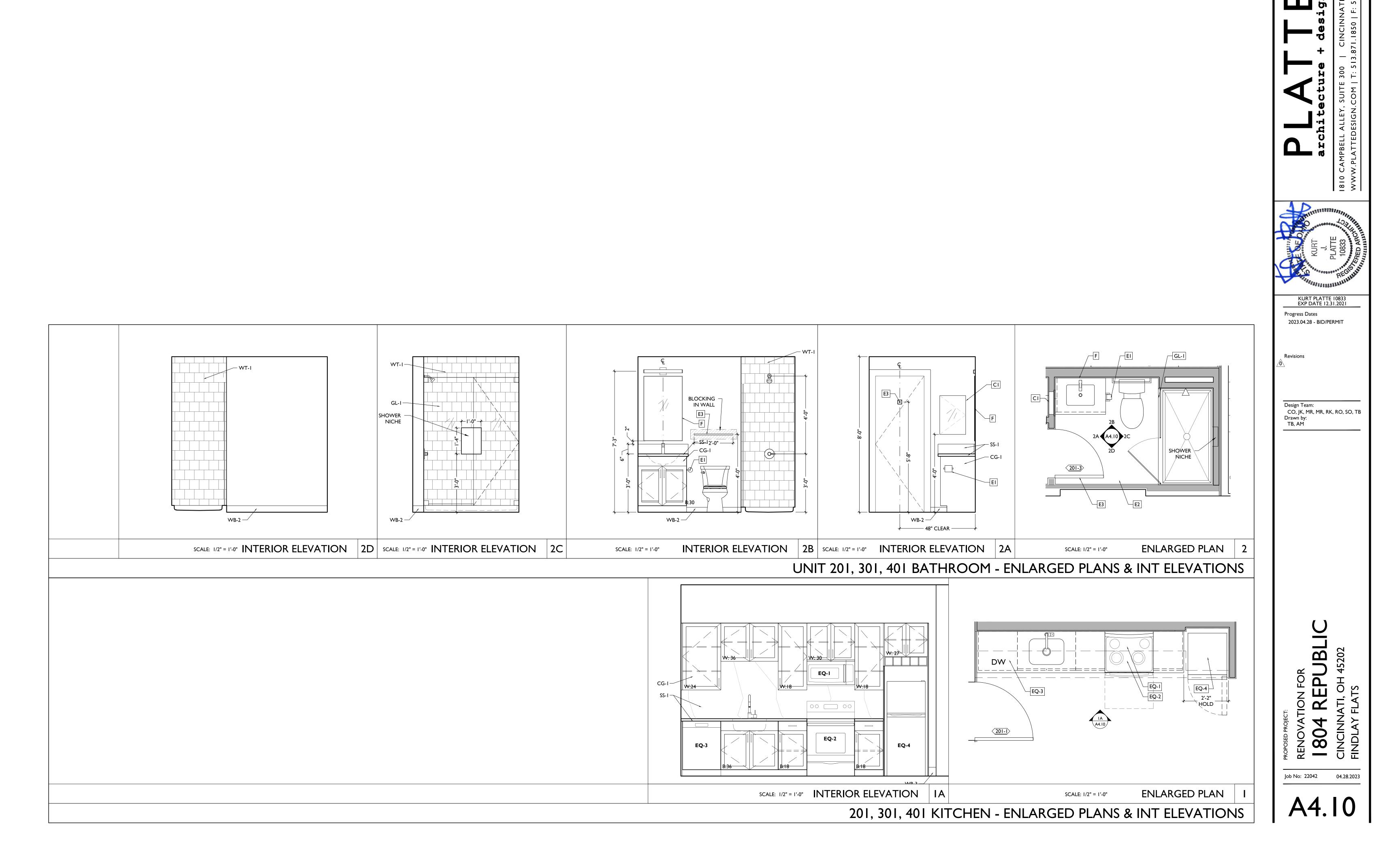
CONDUIT ON FACE

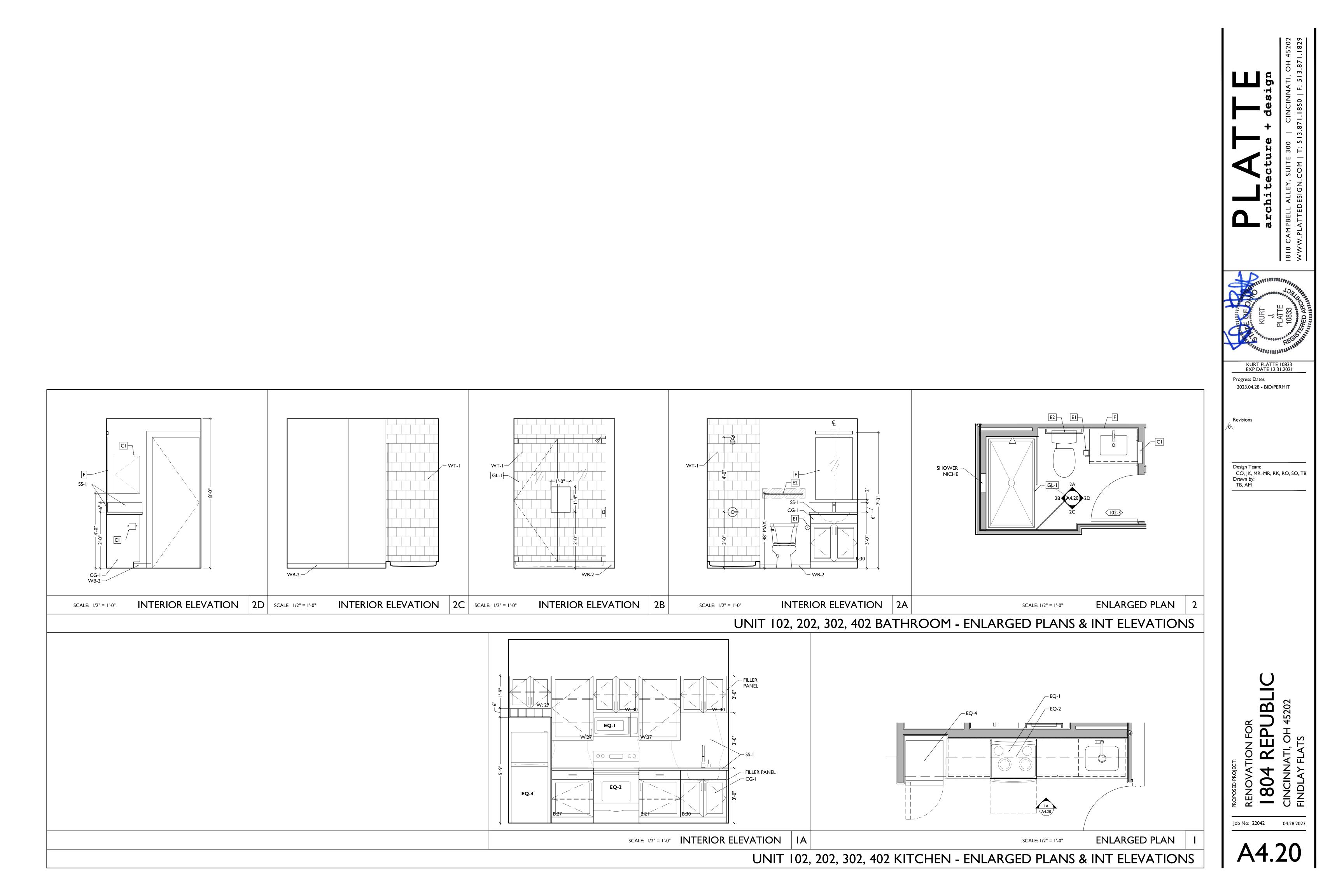
2 F	W WORK GRAPHIC KEY: PARTITION TYPE - SEE A6.00.	45202 I.1829
$ \begin{array}{c} & & & \\ & & & $	KEYNOTE. EXISTING WALL. NEW PARTITION WALL. NEW MASONRY WALL. DBJECT OVERHEAD. -HR FIRE RATING. -HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. SEE A0.01 & A6.01. AREA OF TUCKPOINTING - SEE ELEVS & STRUCT DWGS. DOOR TAG. SEE SCHEDULE / A6.10-13. WINDOW DESIGNATION. SEE A6.20-25. STOREFRONT DESIGNATION. SEE A6.13. EMERGENCY EGRESS EXIT. DPG CONTAINS SAFETY GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. ELEVATION TAG.	PLLATTEDESIGN.COM T. 513.871.1850 F: 513.871.1
		Image: Construction of the second

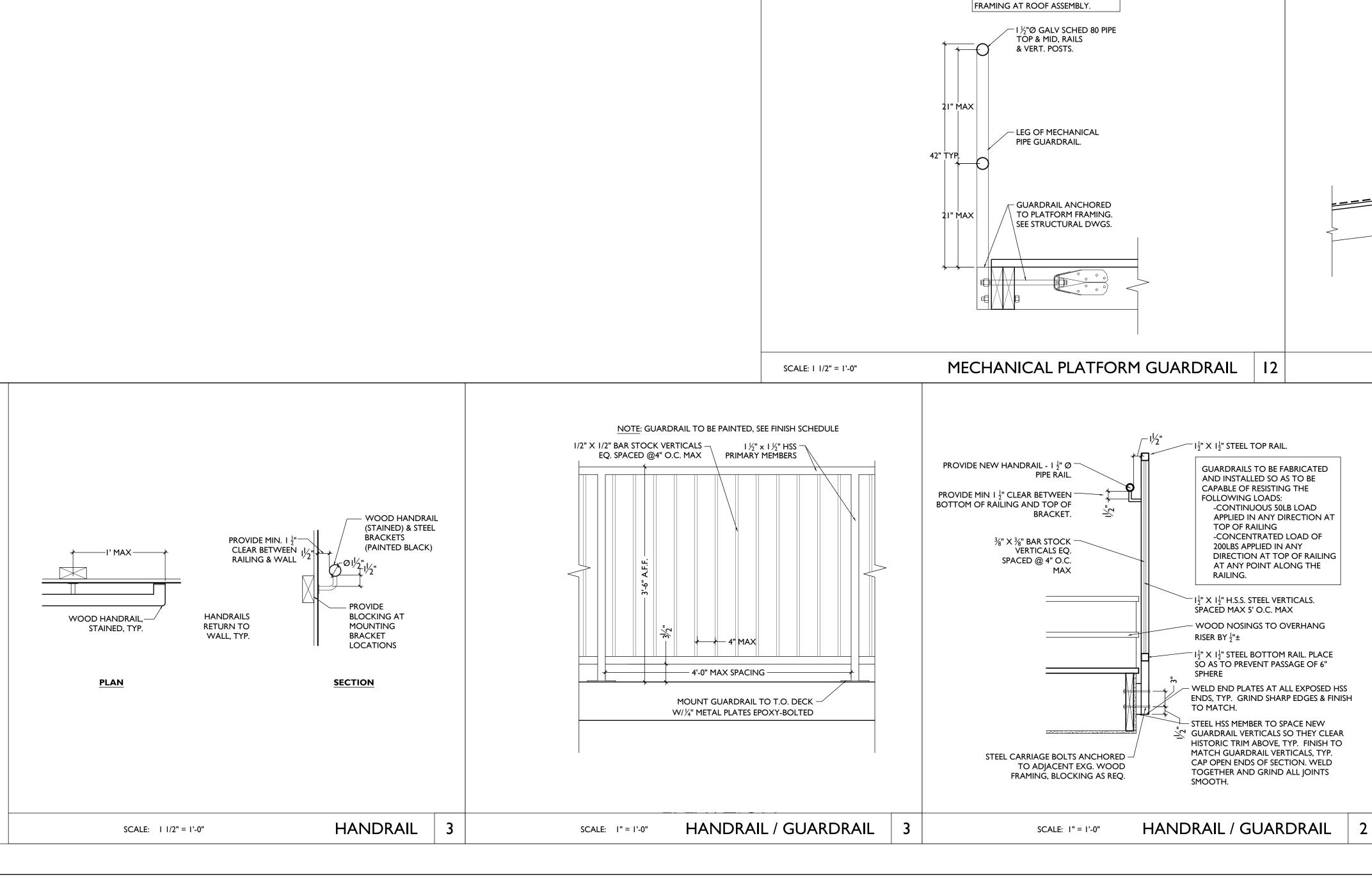
							SOLID SURFACE		
	I YPICAL UNII MATERIAL / LOCATION	FINISHES SCHEDULE	NOTES	SOURCE	QUARTZ - KITCHE BACKSPLASH &	MANUE			BRIAN FORTIN
		FLOORING			COUNTERTOPS THROUGHOUT			ELEVATIONS	BRIAN.FORTIN@OVSCO.CC 513.582.2528
	EXISTING WOOD FLOORING - WHERE MAINTAINED	MANU: EXISTING WOOD FLOORING FL-I FINISH: MINWAX STAIN COLOR: HEIRLOOM OAK MW441	STRIP, SAND AND STAIN PER MANUFACTURER'S SPECIFICATIONS				CASEGOODS	DOOR PULLS -	
	NEW WOOD FLOORING - WHERE REQUIRED	FL-2 FINISH: NATURAL WHITE OAK PLANK WIDTH: 3.25"	SEE FINISH PLANS FOR INSTALL DIRECTION.		CABINETS - IN UN COMMERCIAL RR	IITS/ CG-I DOOR MAPLE,	: SMART CABINETS W/ PLYWOOD BOX STYLE: SUMMIT (SOLID WOOD) FULL OVERLAY	MANU: AMEROCK MONUMENT 5-1/16" CENTER TO CENTER CABINET PULL	SMART CABINETRY SALES@SMARTCABINETRY. 574.831.5010
	FLOOR TILE - BATHROOMS AND ADJACENT MEP/LAUNDRY ROOMS	FL-3 MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.C OM 513.824.1791	GLASS SHOWER ENCLOSURE - UNI	CELEST DOOR	<u>GLASS</u> A FRAMELSS 3/8" GLASS SWING DOOR & PANEL SHOWER	MODEL: BP36571FB FINISH: BLACK	
	VCT - MEP/LAUNDRY ROOM FLOORS	FL-4 MANU: ARMSTRONG FL-4 COLLECTION: EXCELON VCT COLOR: 51861 SOFT WARM GRAY	USE IN LAUNDRY AND MEP ONLY IF ROOM IS NOT ADJACENT TO BATHROOM. UNDERLAYMENT AS REQ'D.	PAUL MCKAY PAMCKAY@ARMSTRONGFLOO RING.COM 513.515.0228	BATHROOMS	GLASS: FINISH:	AQUA GLIDE GLASS CHROME <u>OTHER</u> X WOOD BLINDS AT ALL RESIDENTIAL UNITS, WHITE		
	FLOOR TILE - KITCHENS WHERE REQUIRED	FL-5 MANU: FLORIDA TILE COLLECTION: AURA COLOR: LIGHT GRAY SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE; COLOR: 78 STERLING SILVER INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.C OM 513.824.1791	BLINDS UNIT ENTRY SIGN	IAGE FINISH. BECIZY NUMBE COORE A117.1-	VERIFY ALL LOCATIONS WITH OWNER 4"L X 2.5"W FLOATING WALL MOUNT MODERN HOUSE R, BLACK. VERIFY ALL LOCATIONS WITH OWNER. DINATE LOCATIONS WITH ACCESSIBILITY REQUIREMENTS 2009	FINAL LOCATION TO BE DETERMINED BY OWNER	AMAZON https://tinyurl.com/mr37xwxn
	TILE - SHOWER WALLS	WALL TILE MANU: MOSA COLLECTION: COLORS SIZE: 6X6 COLOR: BEECH GLOSSY GROUT: MAPEI 11; COLOR: SAHARA BEIGE INSTALL: HORIZONTAL RUNNING BOND	BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840		OM EQUIPMENT	SCHEDULE MANUFACTURER & PRODUCT # MANU: BOBRICK LINE: B-5806X18 SIZE: (18") X 36 (36") & 42 (42")	MOUNTING HEIGHT PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	REMARKS COMMERCIAL BATHROOM
	GENERAL PAINT - UNIT AND CORRIDOR WALLS AND CEILING	PAINT PT-I MANU: PPG ARCHITECTURAL COATINGS COLOR: SILVER FEATHER - PPG 1002-1	WALL FINISH: SATIN CEILING FINISH: FLAT		В	DIAPER CHANGE STATION	MANU: KOALA KARE MODEL: KB200-SS HORIZONTAL WALL MOUNTED FINISH: GREY 01	48" A.F.F. MAX MOUNTING HEIGHT TO T.O. STATION. WORKSURFACE WHEN OPEN TO BE 34" MAX - 28" MIN.	
FLOOR GENERAL NOTES		PT-2 MANU: PPG ARCHITECTURAL COATINGS COLOR: IN THE CLOUD - PPG 0999-1	BASE, TRIM, MILLWORK FINISH: SEMI-GLOSS		CI		RECESSED: MANU: KOHLER I6"x20" SINGLE DOOR REVERSIBLE HINGE FRAMELESS MIRRORED MEDICINE CABINET		
 WHERE EXG. HEARTH TILE IS PRESENT. PROTECT AND MAINTAIN AS IS. WHERE EXG. HEARTH IS CONCRETE, PATCH / PROVIDE SOME SKIM COAT. PAINT CONCRETE. COLOR TBD. TRANSITION TYPES: 	PAINT - UNIT ENTRY DOORS CORRIDOR: HISTORIC MILLWORK & STAIR RISERS AS REQ'D PER BUILDING	PT-3 MANU: PPG ARCHITECTURAL COATINGS COLOR: THYME GREEN - PPG 1128-6	FINISH: SEMI-GLOSS		C2	MEDICINE CABINET	MODEL: K-CB-CLR 620FS SURFACE MOUNTED: RANGAIRE SURFACE MOUNT 6"X22" SINGLE DOOR MEDICINE CABINE		UNIT BATHROOMS
 3.1. PROVIDE TRANSITION STRIPS WHERE CHANGES IN MATERIAL OCCUR. 3.2. PROVIDE NEW WOOD TRANSITIONS WHERE NEW WOOD FLOOR MEETS HISTORIC WOOD FLOOR 3.3. WHERE FLOOR TILE TRANSITIONS TO WOOD PROVIDE ALUMINUM TILE EDGE. B.O.D BENGARD-SHUR-TRIM. THICKNESS TO BE DETERMINED IN THE FIELD. 	PAINT - STAIR TREADS AND RAILING BALUSTER AS REQ'D PER BUILDING	PT-4 MANU: PPG ARCHITECTURAL COATINGS COLOR: LICORICE - PPG 1009-7 WALL BASE	FINISH: SEMI-GLOSS		D	PAPER TOWEL DISPENSER	WITH REVERSIBLE DOOR SWING MODEL: 4565MX ASI TRADITIONAL PAPER TOWEL DISPENSER MULTI, C-FOLD, SURFACE MOUNTED BLACK MODEL: ASI 0210-41	PER ACCESSIBILITY REQUIREMENTS, 48" MAX TO HIGHEST OPERABLE PART	COMMERCIAL BATHROOM
	HISTORIC WOOD BASE - WHERE ABLE TO RETAIN	WB-I STAIR HALL: PT-3	KEEP ALL HISTORIC BASE - REPAIR/RETAIN WHEN PRESENT PATCH TO MATCH ADJACENT. CLEAN, SAND, AND PAINT.		EI	TOILET TISSUE DISPENSER	HARNEY HARDWARE COLLECTION: CLEARWATER TOILER PAPER HOLDER FINISH: MATTE BLACK PRODUCT #10220	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOMS
	TILE BASE - BATHROOMS	WB-2 MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN	TILE CUT DOWN ON SITE TO 3 X 24" BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840	E2	TOWEL HOOK	HARNEY HARWARE COLLECTION: CLEARWATER 24" TOWEL BAR FINISH: MATTE BLACK PRODUCT #10222	48" A.F.F.	UNIT BATHROOMS
	FLOOR FINISH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS) TYPICAL NEW PAINTED WOOD BASE - WHERE	CONTRACTOR PROVIDED 1X6 POPLAR W/ TOE MOLDING			E3	ROBE HOOK	"HARNEY HARDWARE COLLECTION: CLEARWATER ROBE HOOK	48" A.F.F.	UNIT/COMMERCIAL BATHROOMS
FLOOR FINISH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS)	WOOD BASE - WHERE	WB-3 PT-2					FINISH: MATTE BLACK PRODUCT # 10218"		
FL-I EXG HISTORIC FINISH FLOORS TO REMAIN		WB-3 $\frac{IN-UNIT:}{PT-2}$ STAIR HALL: PT-3			F	MIRROR		PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM
FL-1 EXG HISTORIC FINISH FLOORS TO REMAIN	WOOD BASE - WHERE	WB-3 PT-2 STAIR HALL:			F	MIRROR	PRODUCT # 10218" MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 X 36 FINISH: BLACK	ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL
FL-1 $EXG HISTORIC FINISH FLOORS TO REMAIN$ $f + f + f + f + f + f + f + f + f + f +$	WOOD BASE - WHERE	WB-3 PT-2 STAIR HALL:		NT BLDG	F		PRODUCT # 10218" MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 X 36 FINISH: BLACK	ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM
FL-1 EXG HISTORIC FINISH FLOORS TO REMAIN FL-2 NEW WOOD FLOORS FL-3 RESTROMS FL-4 RESIDENTIAL LAUNDRY/ MECH ROOMS BUILDING STORAGE ROOMS	WOOD BASE - WHERE REQUIRED.		+ + + + + + + + + + + + + + + + + + +			MIRROR + + + + + + + + + + + + + + + + + + +	PRODUCT # 10218" MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 × 36 FINISH: BLACK SCALE:	ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM
FL-1 EXG HISTORIC FINISH FLOORS TO REMAIN FL-2 NEW WOOD FLOORS FL-3 RESTROMS FL-4 RESIDENTIAL LAUNDRY/ MECH ROOMS BUILDING STORAGE ROOMS BUILDING STORAGE ROOMS	WOOD BASE - WHERE REQUIRED.	WB-3 PT-2 STAIR HALL: PT-3	+ + + + + + + + + + + + + + + + + + +			+ + + + + + + + + + + + + + + + + + +	PRODUCT # 10218" MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 × 36 FINISH: BLACK SCALE:	ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM HSCHEDULE
FL1 EXG HISTORIC FINISH FLOORS TO REMAIN FL2 NEW WOOD FLOORS FL3 RESTROOMS FL4 RESTROOMS BUILDING STORAGE ROOMS	WOOD BASE - WHERE REQUIRED. ADJACENT BLDG	WB-3 PT-2 STAIR HALL: PT-3	+ + + + + + + + + + + + + + + + + + +			+ + + + + + + + + + + + + + + + + + +	PRODUCT # 10218" MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 × 36 FINISH: BLACK SCALE: ADJACENT RDG ADJACENT RDG	ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM H SCHEDULE



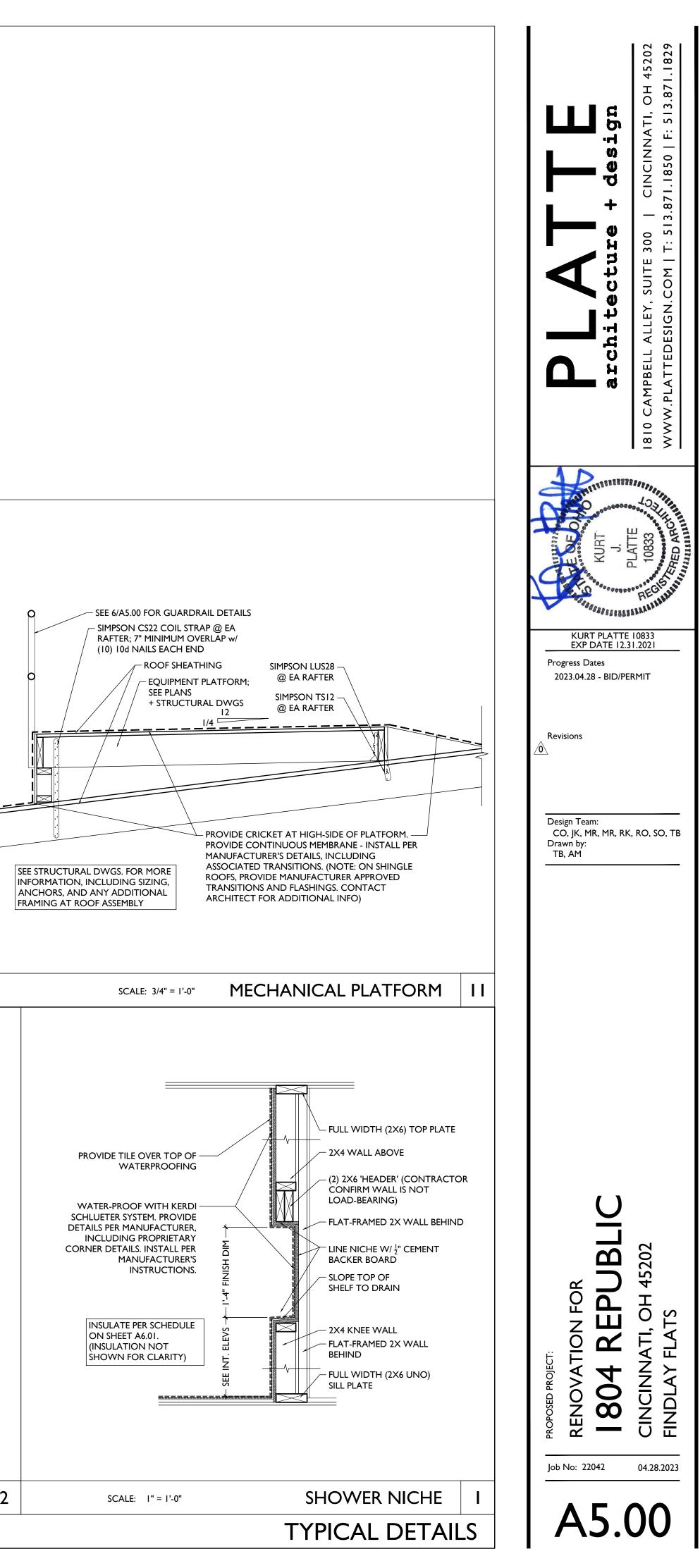


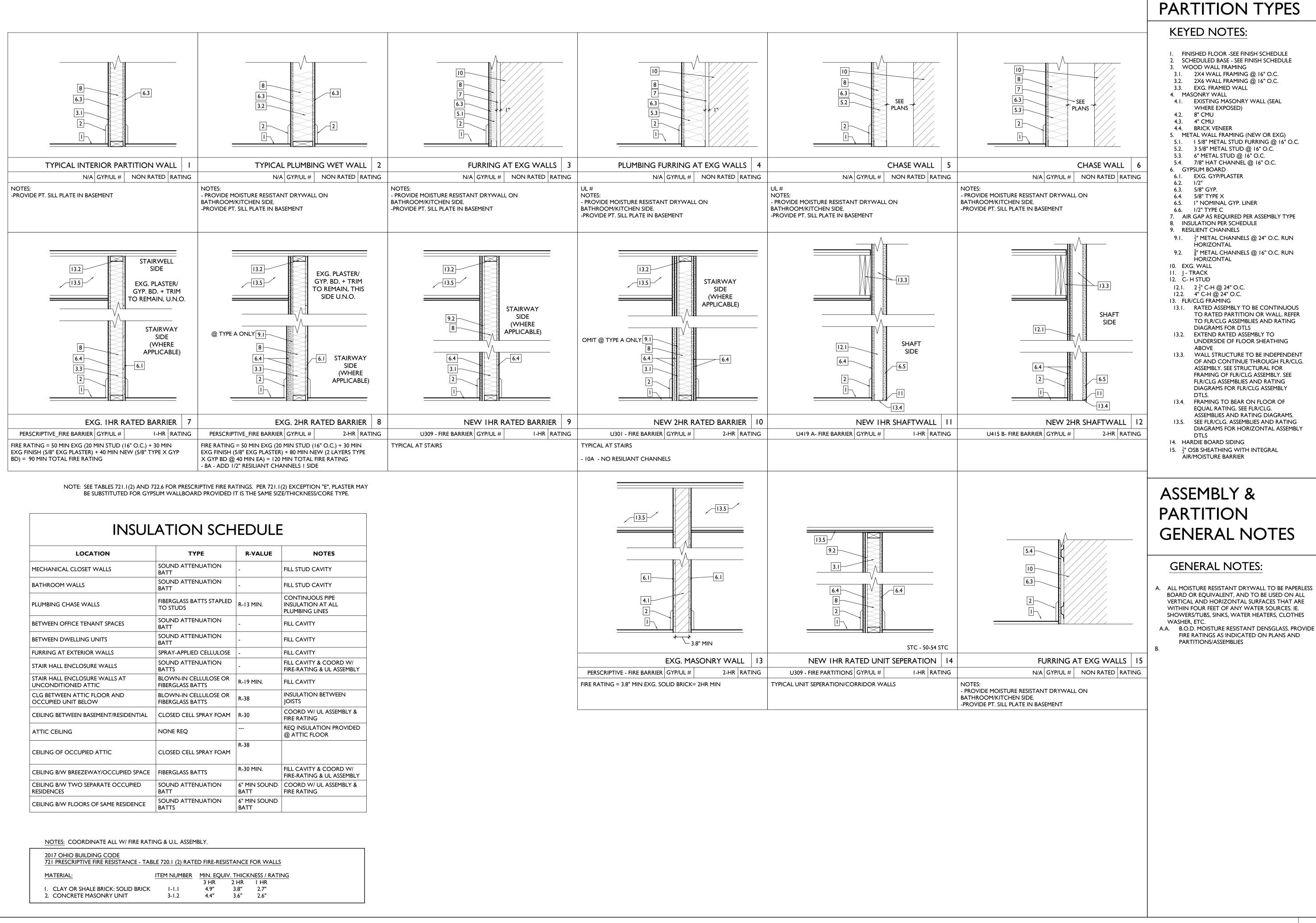






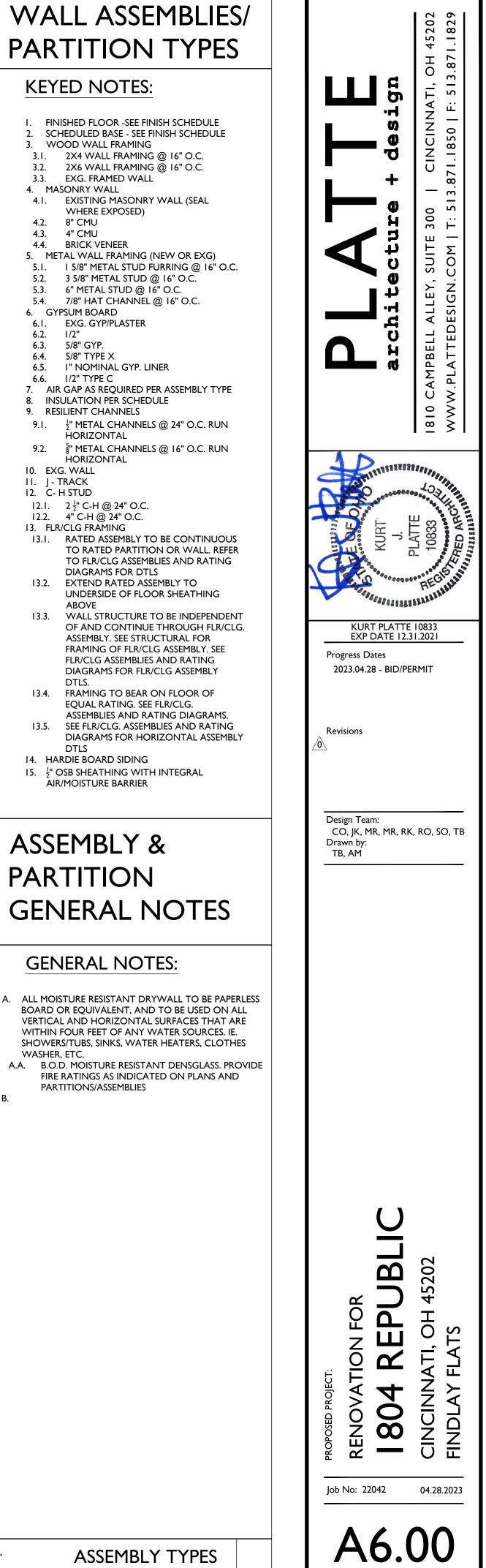
SEE STRUCTURAL DWGS. FOR MORE INFORMATION, INCLUDING SIZING, ANCHORS, AND ANY ADDITIONAL



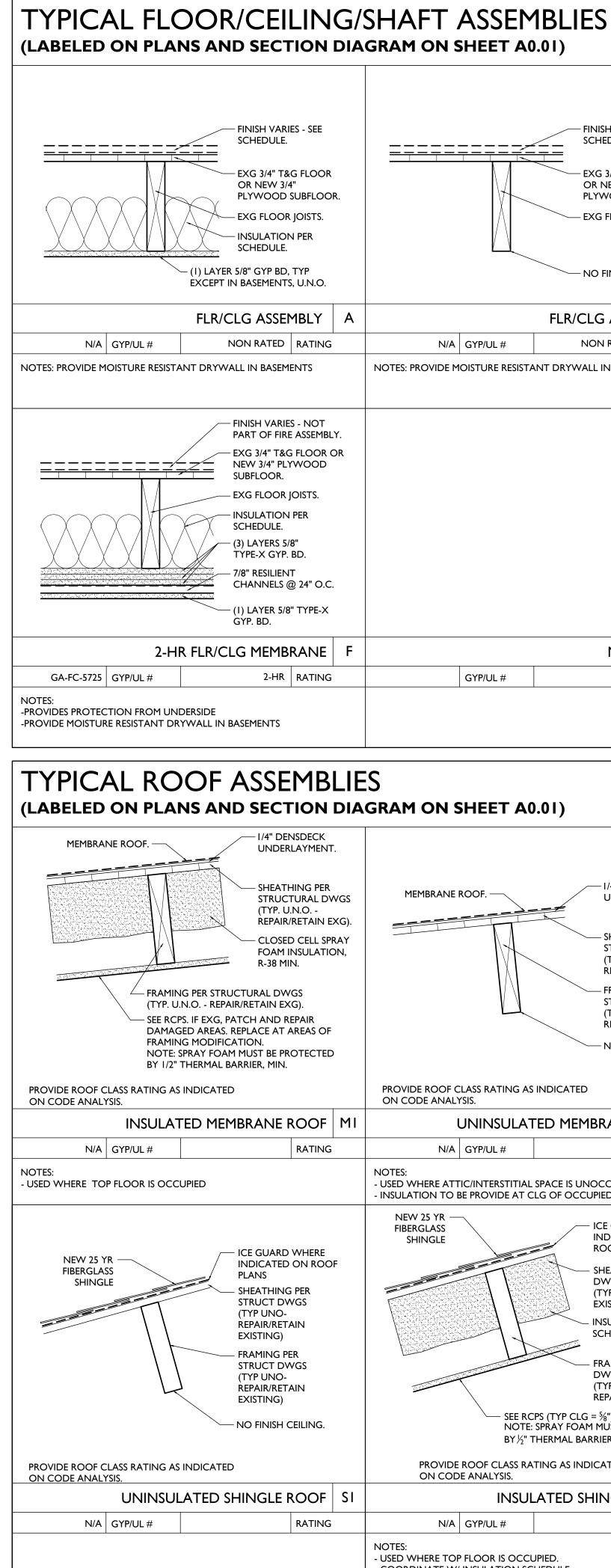


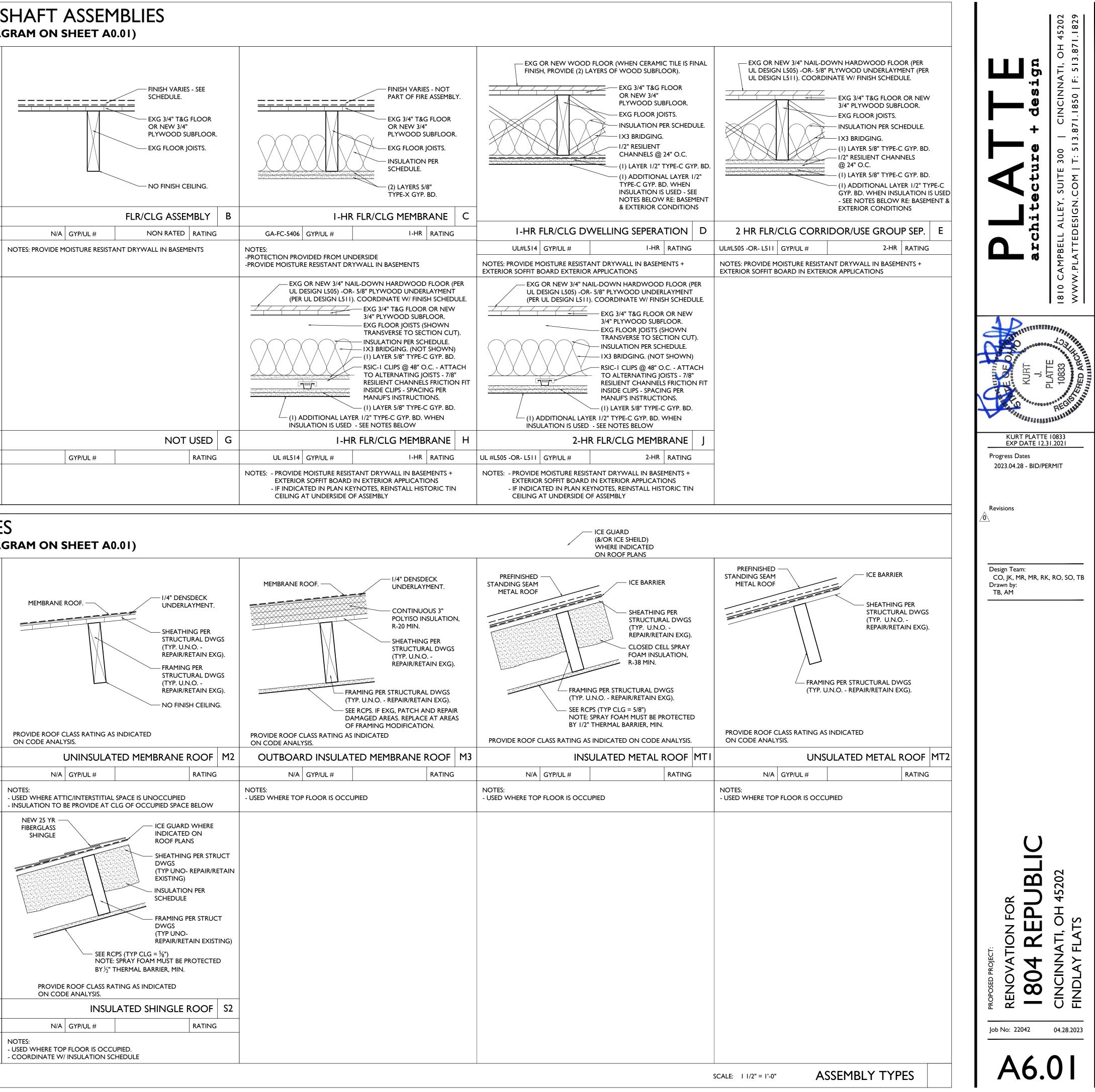
LOCATION	ТҮРЕ	R-VALUE	NOTES
MECHANICAL CLOSET WALLS	SOUND ATTENUATION BATT	-	FILL STUD CAVITY
BATHROOM WALLS	SOUND ATTENUATION BATT	-	FILL STUD CAVITY
PLUMBING CHASE WALLS	FIBERGLASS BATTS STAPLED TO STUDS	R-13 MIN.	CONTINUOUS PIPE INSULATION AT ALL PLUMBING LINES
BETWEEN OFFICE TENANT SPACES	SOUND ATTENUATION BATT	-	FILL CAVITY
BETWEEN DWELLING UNITS	SOUND ATTENUATION BATT	-	FILL CAVITY
FURRING AT EXTERIOR WALLS	SPRAY-APPLIED CELLULOSE	-	FILL CAVITY
STAIR HALL ENCLOSURE WALLS	SOUND ATTENUATION BATTS	-	FILL CAVITY & COORD W/ FIRE-RATING & UL ASSEMBLY
STAIR HALL ENCLOSURE WALLS AT UNCONDITIONED ATTIC	BLOWN-IN CELLULOSE OR FIBERGLASS BATTS	R-19 MIN.	FILL CAVITY
CLG BETWEEN ATTIC FLOOR AND OCCUPIED UNIT BELOW	BLOWN-IN CELLULOSE OR FIBERGLASS BATTS	R-38	INSULATION BETWEEN JOISTS
CEILING BETWEEN BASEMENT/RESIDENTIAL	CLOSED CELL SPRAY FOAM	R-30	COORD W/ UL ASSEMBLY & FIRE RATING
ATTIC CEILING	NONE REQ		REQ INSULATION PROVIDED @ ATTIC FLOOR
CEILING OF OCCUPIED ATTIC	CLOSED CELL SPRAY FOAM	R-38	
CEILING B/W BREEZEWAY/OCCUPIED SPACE	FIBERGLASS BATTS	R-30 MIN.	FILL CAVITY & COORD W/ FIRE-RATING & UL ASSEMBLY
CEILING B/W TWO SEPARATE OCCUPIED RESIDENCES	SOUND ATTENUATION BATT	6" MIN SOUND BATT	COORD W/ UL ASSEMBLY & FIRE RATING
CEILING B/W FLOORS OF SAME RESIDENCE	SOUND ATTENUATION BATTS	6" MIN SOUND BATT	

2017 OHIO BUILDING CODE 721 PRESCRIPTIVE FIRE RESISTANCE - TAB	BLE 720.1 (2) RAT	ed fire-res	SISTANCE	FOR WALLS
MATERIAL:	ITEM NUMBER	MIN. EQU	JIV. THICK	NESS / RATING
		3 HR	2 HR	I HR
I. CLAY OR SHALE BRICK: SOLID BRICK	1-1.1	4.9"	3.8"	2.7"
2. CONCRETE MASONRY UNIT	3-1.2	4.4"	3.6"	2.6"



ASSEMBLY TYPES





HAR	DWARE SCHE	EDULE	CALL OUT LEGENDS
HDWR	м	DESCRIPTION	DOOR FINISHES (ALSO SEE A4.00 AND A8.00-8.01)
EXTERIOR D	OORS / GATES		FF DOOR TO BE FACTORY FINISHED AS PART OF NEW STOREFRONT SY
G01	BREEZEWAY GATE	ENTRY LOCKSET • OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) • LEVER HANDLES • INSIDE ALWAYS UNLOCKED. MEETS EMERGENCY EGRESS REQUIREMENT. • ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB) • ELECTRIC STRIKE • (3) HINGES • (1) CLOSER • WALL/FLOOR STOP	STOREFRONT TYPES ON A6.12. PT AT EXTERIOR DOORS: SEE EXTERIOR PAINT SCHEDULE ON A8.00-A8. AT INTERIOR DOORS: SEE FINISH SCHEDULE ON A4.00. WL WOOD LOOK ST STAINED FRAME TYPES (ALSO SEE A6.11) F1 HISTORIC FRAME/TRIM TO REMAIN - REPAIR/REPLICATE MISSING PIECES
EXISTING DO	DORS TO REMAIN		F2 NEW METAL FRAME - SEE DTLS 1-5/A6.11 AND TYPICAL TRIM DTLS A6.1 F3 NEW METAL FRAME - SEE DTLS 1-5/A6.11 - TRIM TO MATCH EXG ADJ. H
H01	EXISTING TO REMAIN ERCIAL DOORS	EXISTING HARDWARE SET TO REMAIN	 F4 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 AND TYPICAL DOOR TRIM D F5 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 - TRIM TO MATCH EXG ADJ. SF PART OF STOREFRONT SYSTEM - SEE A6.12
H02	EXTERIOR COMMERCIAL DOOR (TYPICAL)	ENTRY LOCKSET • OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) • LEVER HANDLES • INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. • (3) HINGES • (1) CLOSER • WALL/FLOOR STOP • WEATHER SEALS	NOTE: FRAMES TO BE PAINTED, UNO. SEE FINISH SCHEDULE AND EXTERI FOR MORE INFORMATION. TRANSOM TYPES (ALSO SEE A6.11) TR1 NEW HOLLOW METAL FRAMED TRANSOM TR2 HISTORIC TRANSOM TRIM & GLAZING TO REMAIN. REPAIR/REPLICATE
H06	DOOR TO BASEMENT/MECHANICAL CLOSET	STORAGE LOCKSET • RATED HARDWARE WHERE REQUIRED • OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED • ACCESSIBLE BY LANDLORD ONLY • (3) HINGES • WALL/FLOOR STOP	REQ TR3 NEW WOOD TRANSOM TRIM TO MATCH EXG ADJACENT HISTORIC T WITH NEW TEMPERED GLAZING TR4 HISTORIC TRANSOM TRIM TO REMAIN. REPAIR/REPLICATE MISSING PIE INSTALL NEW CLEAR GLAZING. SF NEW TRANSOM TO BE PART OF STOREFRONT SYSTEM. SEE STOREFRO
NEW COMM	ON RESIDENTIAL DOORS	1	
Н09	FIXED DOOR	• FIX DOOR CLOSED • BLANK ESCUTCHEON PLATE ON EXPOSED SIDE • PROVIDE WEATHER STRIPPING WHERE DOOR IS EXPOSED TO THE EXTERIOR.	
HIO	DOOR FROM STAIR/CORRIDOR TO EXTERIOR	EGRESS LOCKSET W/ ELECTRONIC ACCESS CONTROL • OUTSIDE ALWAYS LOCKED, INSIDE ALWAYS UNLOCKED • LEVER HANDLES • ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB) • ELECTRIC STRIKE • I LOCKSET • I -1/2 PAIR HINGES • (I) CLOSER • WALL/FLOOR STOP • WEATHER SEALS	I. EXISTING HISTORIC OPENING:
HIOAB	DOOR FROM STAIR/CORRIDOR TO ATTIC	STORAGE LOCKSET • RATED HARDWARE • OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED • (3) HINGES • (1) CLOSER • SMOKE SEAL • WALL/FLOOR STOP	 I.A. EXISTING HISTORIC DOOR (& TRANSOM, IF APPLICABLE) TO REMAI AS REQ. CONTRACTOR TO PROVIDE ALLOWANCE FOR DOOR REF DOORS TO REMAIN. I.B. EXISTING HISTORIC DOOR IS TO BE FIXED IN PLACE. SEE PLANS. I.C. OPENING TO HAVE RELOCATED HISTORIC DOOR. SEE EXISTING PL PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION
NEW PRIVAT	E RESIDENTIAL DOORS	• WALL/FLOOK STOP	I.D. OPENING TO HAVE RELOCATED HISTORIC FRAME/TRIM. SEE EXISTI
HROI	RESIDENTIAL UNIT ENTRY DOOR	ENTRY LOCKSET • RATED HARDWARE • I LOCKSET • THUMB TURN DEADBOLT. • (3) HINGES • (1) SPRING CLOSER • WIDE ANGLE VIEWER • WALL/FLOOR STOP • SMOKE SEAL • DOOR SWEEP • RUBBER THRESHOLD (LOW PROFILE)	 PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION I.E. NEW OPERABLE DOOR IN HISTORIC OPENING. I.F. HISTORIC POCKET DOORS TO BE RESTORED TO ORIGINAL FUNCT OPERATION. 2. EXISTING TRANSOM TO BE INFILLED BEHIND WITH GYP. BD. TO MAINT SEE DETAILS ON A6.03. 3. PROVIDE HOLD OPEN FOR THIS DOOR - SEE HARDWARE SCHEDULE. 4. PROVIDE HINGES THAT ALLOW FOR EASY DOOR REMOVAL DURING LA INSTALLATION & MAINTENANCE.
HROIA	RESIDENTIAL UNIT ENTRY DOOR (EXTERIOR)	ENTRY LOCKSET • I LOCKSET • THUMB TURN DEADBOLT. • (3) HINGES • (1) SPRING CLOSER • WIDE ANGLE VIEWER • WALL/FLOOR STOP • WEATHER SEALS • DOOR SWEEP • RUBBER THRESHOLD (LOW PROFILE)	 DOOR TO BE UNDERCUT. SEE MECHANICAL DRAWINGS. DOOR(S) TO BE FIXED IN PLACE AND INOPERABLE. PROVIDE VIEW HOLE AT 48" A.F.F., CENTERED IN DOOR.
HR02	TYPICAL BEDROOM AND BATHROOM	PRIVACY LOCKSET • (1) LOCKSET • (3) HINGES • WALL/FLOOR STOP • WOOD "T" THRESHOLD STORAGE LOCKSET	
HR03	DOOR TO MECHANICAL CLOSET	OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY (3) HINGES WALL/FLOOR STOP WOOD "T" THRESHOLD	GENERAL NOTES
HR04	SINGLE DOOR TO CLOSET/STORAGE/LAUNDRY/ BEDROOM EGRESS	PASSAGE LOCKSET • (3) HINGES • WALL/FLOOR STOP	THIS IS A HISTORIC TAX CREDIT PROJECT WITH SENSITIVE HISTO INCLUDING DOORS & TRIM. DO NOT REMOVE ANY HISTORIC DO
HR04A	DOUBLE <u>SWINGING</u> DOOR TO CLOSET/STORAGE	CLOSET PULLS • DUMMY LEVER HANDLES • BALL CATCHES • 3 PAIR HINGES	UNLESS INDICATED IN THESE DRAWINGS & IN THE SHPO NARRA
GENERAL HA	ARDWARE NOTES:		A. FURNISH AND INSTALL ALL DOOR FRAMES AS SHOWN ON THE DRAWN ACCORDANCE WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS
	ARE TO BE OPERABLE IN THE DIRECTION OR GRASPING THE DEVICE.	N OF EGRESS ALWAYS WITHOUT KNOWLEDGE, KEY OR TIGHT	INSTRUCTIONS. B. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF F
2. ALL HARDW EXTERIOR H TO BE POWE 3. ALL HARDW A. LOCKSETS	ARE TO BE SATIN CHROME, STAINLESS S INGES, KICK PLATES TO BE US32D, INTER DER COAT TO MATCH. ARE TO BE AS SPECIFIED OR APPROVED I S ARE BASED ON BEST CYLINDRICAL GRA	TEEL AND POWDER COAT TO MATCH. EXIT DEVICES, IOR HINGES, LOCKSETS, WALL STOPS US26D, DOOR CLOSERS EQUAL. ADE I (MORTISE LOCK FOR TOILETS WITH INDICATOR). NER. APPROVED MANUFACTURERS: BEST (9K3 SERIES), SCHLAGE	DETAILS OF EACH FRAME TYPE, CONDITIONS AT OPENINGS, DETAILS C LOCATION, AND INSTALLATION REQUIREMENTS OF FINISH HARDWAR REINFORCEMENTS, AND DETAILS OF JOINTS AND CONNECTIONS. SHO AND ACCESSORY ITEMS. PROVIDE SCHEDULE OF FRAMES USING SAME F DETAILS AND OPENINGS AS THOSE ON CONTRACT DRAWINGS.
(ND SERIE: FORMAT & B. EXIT DEVIC SERIES), VC C. DOOR CL	S), SARGENT (10 LINE). KEY SYSTEM - PRO KEY SYSTEM), 5 MASTER KEYS, 3 CHANGE CES ARE BASED ON PRECISION 2100 SERIE ON DUPRIN (98 SERIES)	IVIDE MASTER SYSTEM (KEY INTO OWNER'S EXISTING SMALL KEYS PER CYLINDER. ES GRADE 1. APPROVED MANUFACTURERS: PRECISION (2100 ES GRADE 1. PROVIDE WITH FULL COVER. APPROVED	 C. NEW FRAMES SHALL HAVE UL LABELS TO MATCH RATING NOTED IN D D. SET AND BRACE ALL DOOR FRAMES. FRAMES SHALL BE PREPARED FOR H TEMPLATES FURNISHED BY HARDWARE SUPPLIER. E. COORDINATE LOCATIONS FOR OTHER TRADES TO BUILD IN THEIR WARD
	JANTITY - 3 HINGES PER DOOR LEAF FOR	-1/2", DOORS WIDER THAN 3 FEET TO BE 5" X 4-1/2". & DOORS UP TO 7'6". PROVIDE 4 HINGES FOR DOORS TALLER	<u>DOORS</u> F. FURNISH AND INSTALL ALL DOORS AS SHOWN ON THE DRAWINGS AI WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INS
	TE KEYING REQUIREMENTS WITH OWNE TE ELECTRONIC ACCESS CONTROL REQI		 G. SUBMIT DOOR MANUFACTURER'S PRODUCT DATA SPECIFICATIONS AN INSTRUCTIONS FOR EACH TYPE OF DOOR. PROVIDE SCHEDULE OF DO REFERENCE FOR DETAILS AND OPENINGS AS THOSE ON CONTRACT D H. EXTERIOR DOORS TO BE INSULATED, THERMALLY BROKEN WITH WEA PROVIDED WITH ACCESSIBLE THRESHOLD.
			 GLAZING IN DOOR LITES AND SIDE LITES SHALL BE CLEAR SAFETY GLAS UNLESS OTHERWISE NOTED. WIRED GLASS, IS NOT ALLOWED. GLASS F SHALL HAVE FLUSH STOPS. SEE PLANS FOR REQUIRED FIRE RATINGS.

- EQU K. FIT DOORS TO FRAMES WITH MINIMUM UNIFORM CLEARANCES AND BEVELS. DOORS SHALL BE PREPARED FOR HARDWARE AS REQUIRED BY HARDWARE SCHEDULE. SEAL DOOR EDGE SURFACES AFFECTED BY FITTING AND MACHINING. PROVIDE DOOR CLEARANCES SO THAT DOOR MAY FREELY MOVE ABOVE FINISH FLOOR MATERIAL.
- L. VERIFY SIZE OF ALL EXISTING DOORS AND DOOR OPENINGS IN FIELD. WHERE HISTORIC DOORS ARE BEING RELOCATED, VERIFY DOOR FITS IN NEW LOCATION. IF DOOR DOES NOT FIT, CONTACT ARCHITECT.

	DO	OR SC	HEDI	JLE						_		
TEM. SEE	DOOR NO.	LOCATION		DOOR				FRAME		HDW	REM	IARKS
			WIDTH	HEIGHT	ТҮРЕ	FINISH	ТҮРЕ	TRANSM	FINISH	ТҮРЕ	RATING	NOTES
	BASEME	NT										
S REQ	001-1	W. BASEMENT	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	H06	90 MIN	I.E
FORIC TRIM S A6.11	001-2	E BASEMENT	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	РТ	F2	-	PT	H06	90 MIN	I.E
	FIRST FL	OOR									II	
r paint schedule	E01-1	BREEZEWAY GATE	EXG OPG. V.I.F	8'-0"	GA	PT	-	-	PT	G01		
	100-1	STAIR ENTRY	EXG OPG. V.I.F	7'-0"	DM7	PT	F2	-	РТ	ніо		I.E
	100-2	BASEMENT STAIR	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	H06		I.E
ISSING PIECES AS	101-1	EXT. TO LAUNDRY	EXG OPG. V.I.F	7'-0"	DM7	PT	F2	TRI	PT	H02		I.E.
M OF DOOR -	101-2	LAUNDRY	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	H04A	90 MIN	I.E.
S AS REQ'D.	102-1	UNIT ENTRY	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	HR01	90 MIN	I.E
T TYPES.	102-2	CLOSET	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR04		
	102-3	BATHROOM	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR02		
	SECOND	FLOOR										
	201-1		EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	HR01	90 MIN	I.E
	201-2		(2) 2'-0"	6'-8"	DWI	PT	F4	-	PT	HR04A		
	201-3	BATHROOM	2'-6" EXG OPG.	6'-8" EXG OPG.	DWI DM4	PT PT	F4 F2	-	PT PT	HR02 HR01	90 MIN	I.E
	202-2	CLOSET	V.I.F 2'-6"	V.I.F 6'-8"	DWI	PT	F4		PT	HR04		
	202-2	BATHROOM	2-6	6'-8"	DWI	PT	F4	-	PT	HR04		
IN SITU. REPAIR	THIRD F		2-0	0-0	DWI			-		111(02		
IR FOR ALL EXG.	301-1		EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	РТ	HR01	90 MIN	I.E
NS FOR	301-2	CLOSET	(2) 2'-0"	6'-8"	DWI	PT	F4	-	PT	HR04A		
I. G PLANS FOR	301-3	BATHROOM	2'-6"	6'-8"	DWI	РТ	F4	-	PT	HR02		
۱.	302-1	UNIT ENTRY	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	HR01	90 MIN	I.E
N AND	302-2	CLOSET	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR04		
N FIRE RATING.	302-3	BATHROOM	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR02		
	FOURTH	FLOOR										
NDRY UNIT	401-1	UNIT ENTRY	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	РТ	HR01	90 MIN	I.E
	401-2	CLOSET	(2) 2'-0"	6'-8"	DWI	PT	F4	-	PT	HR04A		
	401-3	BATHROOM	2'-6"	6'-8"	DWI	РТ	F4	-	PT	HR02		
	402-1	UNIT ENTRY	EXG OPG. V.I.F	EXG OPG. V.I.F	DM4	PT	F2	-	PT	HR01	90 MIN	I.E
	402-2	CLOSET	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR04		
	402-3	BATHROOM	2'-6"	6'-8"	DWI	PT	F4	-	PT	HR02		
	FIFTH FL			I	[1	1			1 1	
	500-I	W. ATTIC	2'-6"	6'-8"	DM4	PT	F2	-	PT	HIOAB	90 MIN	
	500-2	E. ATTIC	2'-6"	6'-8"	DM4	PT	F2	-	PT	HI0AB	90 MIN	

TORIC MATERIALS, OORS OR TRIM ATIVE.

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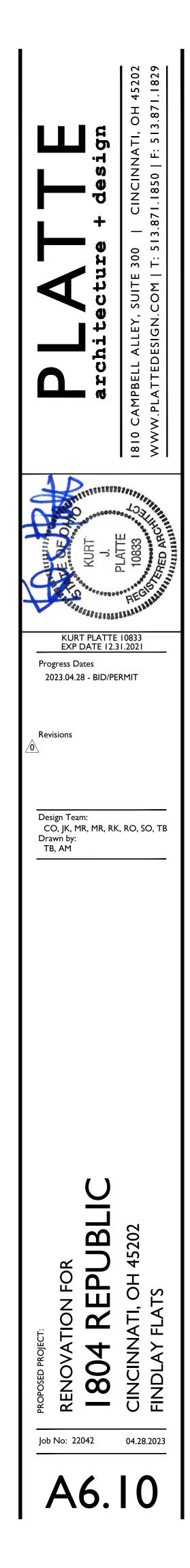
F FRAMES. INCLUDE S OF CONSTRUCTION, ARE AND HOW ANCHORAGE IE REFERENCE FOR

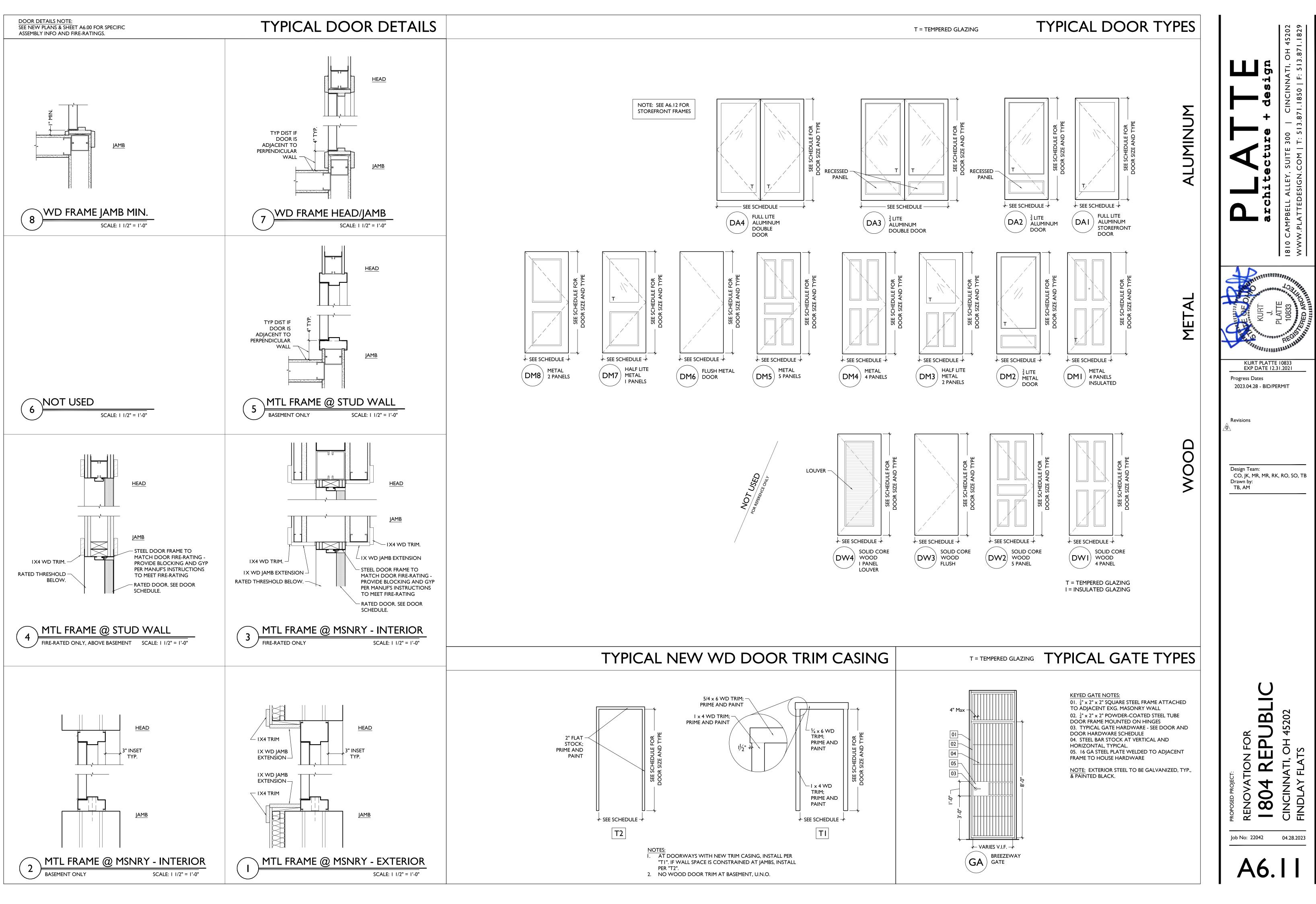
DOOR SCHEDULE. R HARDWARE PER

WORK AS REQUIRED.

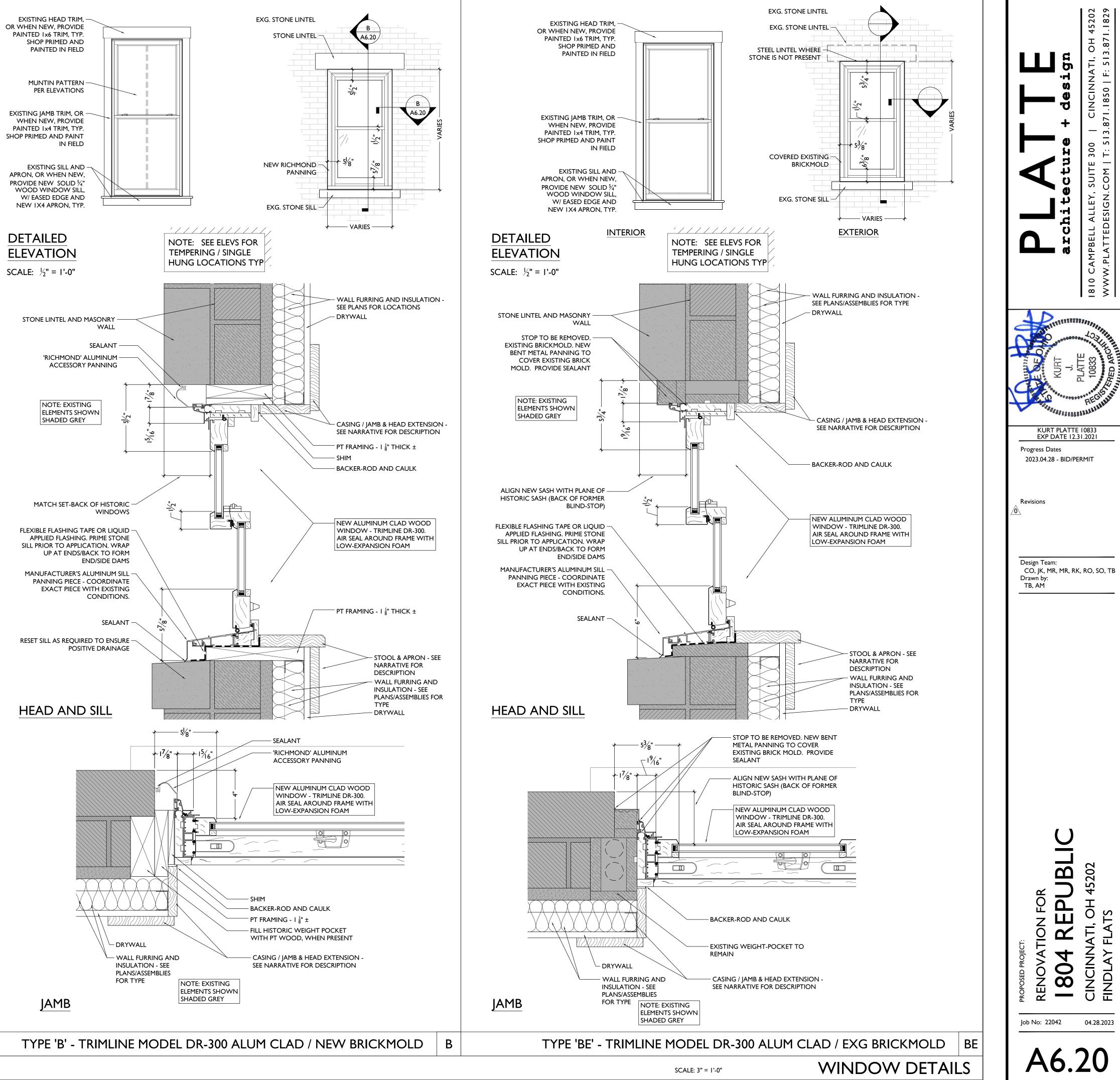
AND IN ACCORDANCE NSTRUCTIONS. AND INSTALLATION DOORS USING SAME DRAWINGS. EATHERSTRIPPING, AND

LASS, 1/4" THICKNESS, S FRAMES IN DOORS





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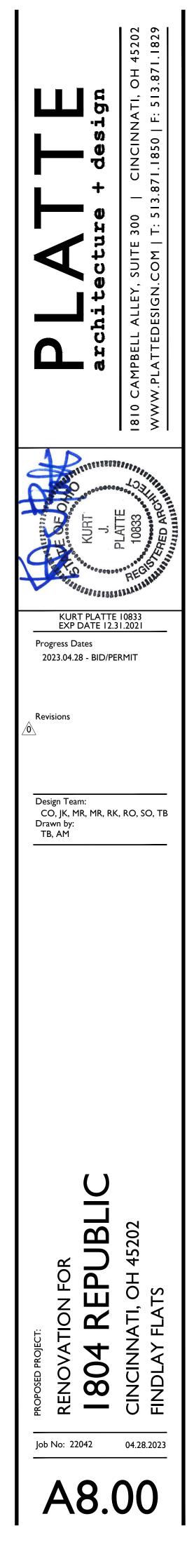
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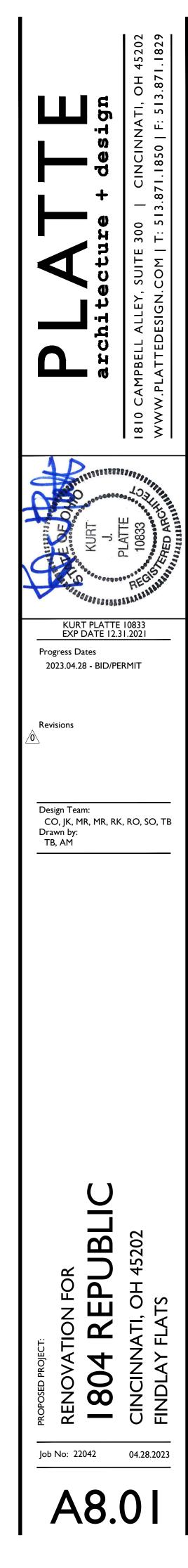




PROPOSED EAST ELEVATION



PROPOSED WEST ELEVATION



	M. N.	Enterprise Green Communities: 1. Green Communities Checklist 202 2. Green Communities Criteria 2020 ENERGY STAR Qualified Homes Program 1. <u>https://www.energystar.gov/partne</u>
		l_page
	SU A. B. C.	 Green Communities Criteria 2020 ENERGY STAR Qualified Homes Program <u>https://www.energystar.gov/partne</u>
	E.	stringent. Perform Work to meet or exceed minimum
	F. G. H.	 Energy Star requirements. Energy Star Ch Perform Work without use of CFC based re Perform ventilation Work in accordance wi Develop and implement construction indoor 1. Comply with minimum requiremen 2. Protect stored and installed absorp a. Store materials on elevate b. When materials are not star material with secured wate 3. Protect HVAC equipment during co a. Shut down return side of H construction or demolition. b. When HVAC systems are temporary filters.
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replacing the water heater. Follow American National Standards Institute (ANSI) / American Water Works Association (AWWA) C810-17 Standard when replacing the LSL.

EGC 5.1b Building Performance Standard (mandatory)

ERI Option Demonstrate energy performance equivalent to a HERS Index of **100**: Energy Analysis conducted by Green Verifier confirms that the project is below HERS 100 target. On-site power generation may not

be used to satisfy the minimum energy performance. Meeting energy performance standards further requires mandatory inspection and testing conducted by Owner Contracted Green Rater/Verifier for Green certifications.

Conduct compartmentalization of dwelling units via air infiltration no greater than 0.30 CMF50 for Substantial Rehab per square feet of dwelling unit enclosure area or a 20% improvement of CFM50/sf compared to pre-retrofit conditions, following procedures in ANSI/RESNET/ICC Std. 380.

Insulation installed as part of the rehab must achieve the following: 1. Grade I installation per ANSI/RESNET/ICC Std. 301.

- 2. Grade II installation for assemblies that contain a layer of continuous, air impermeable insulation $(\geq R-3 \text{ in Climate Zones 1 to } 4, \geq R-5 \text{ in Climate Zones 5 to } 8).$
- 3. Grade II batt insulation floors if they fill the full width and depth of the floor cavity, even when compression occurs due to excess insulation.

HVAC systems repaired or installed during rehab must complete testing via the National HVAC Functional Testing Checklist, ENERGY STAR Multifamily New Construction Version 1.1 (or most recent checklist version available at time of permit).

- Mandatory Mid-Construction Pre-Drywall Thermal Bypass Inspection: 1. EGC Certification will require visual inspection of thermal envelope per enclosed Energy Star Rater Field Checklist at mid-construction. Coordinate inspection with Green Verifier with a minimum of 3-week notice. (Only applicable-scope items will be inspected for renovations.)
- Final Verification and Inspection Testing
- 1. Upon substantial completion and prior to occupancy, the Green Verifier will conduct a visual Final Inspection to verify green requirements incorporated in the project. The contractor shall notify the Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test. Additional inspections
- necessary due to incomplete work shall be back-charged to the Contractor. 2. Testing - Third-party Testing is to be scheduled and conducted in conjunction with the final inspection. The contractor shall notify the Green Verifier at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate
- with conducting of the test. Preconstruction Pretest – A pre-construction pretest was conducted to identify areas to envelope, demising unit enclosures. Recommended areas for sealing include:
- a. Joints between duct boots and drywall and floor finishes. b. Gaps at plumbing penetrations to drywall and floor finishes.
- Plumbing and attic access panels.
- d. Seal all visible gaps and cracks where interstitial cavities (wall, joist, ceiling, and stair) are used as return ducts.

4. Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit enclosure such as exterior walls, demising walls, ceilings, chases, etc. Minimum envelope leakage where applicable. Following areas of building envelope and demising walls shall be

- sealed, caulked, gasketed, or weather-stripped to minimize envelope leakage: a. Joints around exterior doors and windows.
- b. Joints between walls and foundation; between conditioned spaces and attics, demising walls, crawl spaces and garage.

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CATEGORY

system shall be sealed:

leakage.

for returns.

EGC 5.7 Energy Star Appliances (mandatory)

astronomic time-clock operation.

and clothes washers.

EGC 5.8 Lighting (mandatory)

list 2020

rogram Requirements partner_resources/residential_new/homes_prog_reqs/nationa

ving items directly to the Green Rater/Verifier.

- Calculation and/or Waste Tickets) ets of products intended to comply with Environmentally en Communities Checklist Section 6 for list of products PP criteria are as follows:
- Material Health Requirement Publicly disclosed where I screened using health hazard lists or restricted substances dient Transparency Requirement - Minimum 25% post-
- tion Requirement Third-party verification of optimization to
- Requirement see specific requirements for low-emission allpaper, adhesives, sealants, flooring, insulation, and rion 6.4.
- Material Requirement see specific requirements for crete, steel, insulation, roofing, paving, and non-composite

ment – Extracted, manufactured, and fabricated (all row-fly distance of site.

e Enterprise Green Communities Criteria for prerequisites and in Green Communities worksheet included at the end of this

inities Criteria on site. Criteria is available for download at rg/sites/default/files/egc_2020_criteria_manual.pdf substitution for products that are related to Enterprise Green dits. Any substitutions may jeopardize projects' ability to obtain

and erosion control Work in accordance with EPA Best ion and sedimentation control standards whichever is more

nimum energy efficiency and performance in accordance with Star Checklist is enclosed at end of this section.

ased refrigerants in HVAC building systems.

- ance with ASHRAE 62. n indoor air quality management plan including the following:
- rements of SMACNA IAQ.
- absorptive materials from moisture damage. elevated platforms under cover, and in dry location.
- not stored in enclosed location, cover tops and sides of ed waterproof sheeting.

uring construction. ide of HVAC system whenever possible during heavy

ms are operated during heavy construction, furnish disposable

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c. All mechanical, plumbing, and electrical penetrations in exterior and demising walls. Mechanical chase shall be sealed at crawl space ceiling. d. Exterior sheathing and house wrap.

e. Minimize entry of air from outside, attic, garage, and crawl space into exterior wall and

interior wall cavities to ensure passing of air infiltration test. Also minimize air transfer from unit to unit, and unit to corridor. Batt insulation shall be stapled to face of stud to ensure full contact of insulation with face

of drywall. Cut insulation around all mechanical, plumbing, and electrical work. Gasket attic access panels. Seal drywall to frame of access panel. Distribution Loss Test (Duct Blaster Test) – Mandatory – Measures leakage through the mechanical distribution system and minimize duct leakage. Following areas HVAC distribution

a. Clean entire distribution system to decipher areas for sealing and minimizing duct

b. Joints and seams of existing ductwork shall be sealed where visible. c. Provide new metal lining for returns in visible areas where wall and floor cavities are used

Seal all duct boots in floors to subfloors and seal all duct boots in walls to drywall. e. Seal gaps between drywall and all duct penetrations in ceilings, including exhaust fans.

EGC 5.6 Sizing of Heating and Cooling Equipment (mandatory)

Applicable to rehabs that include replacement of heating and cooling equipment. 1. Size and select heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals J and S or ASHRAE handbooks.

1. If replacing or installing new appliances provide Energy Star-labeled refrigerators, dishwashers,

When replacing or installing new light fixtures 1. All permanently installed fixtures shall be high-efficiency that is capable of meeting recommended light levels in the Illuminating Engineering Society Handbook, 10th edition. Recessed light fixtures installed as part of air barrier shall be Insulation Contact Air-Tight (ICAT) 3. Common space lighting or Non-apartment building spaces must be controlled by occupancy sensors or automatic bi-level lighting controls, except 24-hour lighting required by code. Lighting power density in dwelling units shall be 1.1 W/SF or less. 5. All exterior lighting shall have motion sensor controls, integrative PV cells, photosensors, or

6. Exterior fixtures shall meet the following: a. Luminaires shall be fully shielded emitting no light above 90 degrees. The luminaire's mounting hardware shall not permit mounting in any configuration other than those maintaining full shielding. Non-residential luminaires shall have an uplight rating of U0. b. Fixtures shall have no sag or drop lenses, side light panels or uplight panels. c. Fixtures shall employ warm-toned (3000k or lower) white light sources or may employ amber light sources or filtered LED light sources.

	thier Material Selection (mai roducts that comply with the fo	- /	
PRODUCT CATEGORY	MANDATORY	ADDITIONAL POINTS	REFERENCE

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- PART 2 PRODUCTS
- PRODUCT SUBSTITUTION
- A. Thoroughly review any requests for substitution for products that are related to Green Communities prerequisites and credits. Any substitutions may jeopardize the project's ability to obtain certification.

PART 3 EXECUTION

EGC 1.4 Integrative Design: Construction Management (mandatory)

- 1. At the onset of construction organize an Enterprise Green Communities trades training moderated by Green Verifier.
- 2. Following trades to attend GC Project Manager, GC Site Superintendent, Mechanical-Electrical-Plumbing, Insulation, Framing, Drywall, Air-Infiltration Package.
- 3. Provide a minimum of 2-week notice to Green Verifier prior to training date.

EGC 2.1 Site Selection (mandatory)

This project does not have any ecologically sensitive features. If ecologically sensitive features are identified in the Ecological Resource Protection Zone (ERPZ)

- meet the following:
- 1. Protect floodplain functions a. Projects built on land that is within the Special Flood Hazard Area (SPHA) as identified by FEMA, must be designed to meet the ASCE 24 Flood Resistant Design and Construction standard.
 - a. Ensure that any development or redevelopment activities within the floodplain will mitigate and improve existing floodplain conditions (maintain or increase existing floodplain storage, improve water quality, implement flood-resilient design).
- b. Do not raise topographical elevations in flood zones.
- 2. Protect aquatic ecosystems
- a. Do not extend the building, built structures, roads, or parking areas into wetlands or deepwater habitats, as identified in the ERPZ, beyond where they already exist. b. Develop restoration plans for wetland and deepwater habitats within the ERPZ.
- 3. Conserve habitat for any species on federal or state threatened or endangered lists a. Do not extend the building, built structures, roads, or parking areas into habitats for threatened and endangered plant and animal species on the site, as identified in the FRP7
 - b. Minimize disturbances within the ERPZ during construction. If construction activities permanently disrupt the habitat of threatened or endangered animal habitats, follow the guidance of responsible state (or local) agencies on how to best address.

EGC 2.14 Local Economic Development and Community Wealth Creation 1. Contractor shall demonstrate that local preference for construction employment and

- subcontractor hiring was part of bidding process.
- EGC 3.1 Environmental Remediation (mandatory)
- 1. Submit Phase 1 Environmental Site Assessment report to Green Verifier/Verifier If an environmental site assessment reveals any hazardous materials, mitigate these before proceeding with development.

EGC 3.2 Erosion and Sedimentation Control (mandatory)

Applies only when any site-work or excavation is in scope: Contractor shall implement EPA's National Pollutant Discharge Elimination System (NPDES)' Stormwater Discharges from Construction Activities guidance, or local requirements, whichever is more stringent. If excavation and site work is part of scope: 1. Stockpile and protect disturbed topsoil for reuse.

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All interior VOC content less than or 1 point per APE-For wall finish paints compliant with the equal to the thresholds free paint, coating | mandatory CDPH specification, seek paints, coatings, provided by the most and/or primer those certified to Master Painters primers and | recent version of 1 point per CDPH-Institute (MPI) X-Green, Green Wise SCAQMD 1113 available Gold. GREENGUARD Gold. SCS Indoor wallpaper compliant coating at time of product Advantage Gold, and Berkeley Analytical and/or primer specification for all interior ClearChem. GS-11 paints comply with (excluding wall paints, coatings and finish paints) the optional APE-free criterion, as do [2 points Red List–free products. primers. VOC emissions verified as *maximum*] compliant with CDPH Standard Method for all wall finish paints. All wallpaper, phthalate All interior VOC content less than or Use of sealants Orthophthalate plasticizers are common equal to the thresholds adhesives that do not contain | in polyurethane and modified polymer provided by the most orthophthalate sealants. While not common, they may and sealants recent version of plasticizers. Use also be found in some acrylic latex or SCAQMD 1168 available of adhesives that siliconized acrylic sealants. Verify that at time of product are CDPH specified sealants are phthalate-free. Minimize the need for adhesives when specification for all interior compliant. possible. For instance, finger-joints and adhesives and sealants. [1 point per mechanical fasteners do not contain compliant product, 2 points chemicals of concern. maximum] Flooring All flooring products The project Common flooring product labels that (whether carpet or hard complies with one meet or exceed the mandatory CDPH surface) must comply with of the following emission requirement include FloorScore, GREEN-GUARD Gold, SCS CDPH emission options: requirements. Absence of vinyl-Indoor Advantage Gold, Berkeley No flexible PVC with flooring throughout Analytical ClearChem, and Carpet Rug Institute Green Label Plus (CRI+). phthalates may be the project installed, whether the Absence of carpet | In place of vinyl or other PVC-based phthalates were throughout the resilient flooring, consider salvaged hardwoods, natural linoleum, rubber, intentionally added or project All project flooring | cork, other PVC-free resilient flooring, added via recycled ceramic or stone tile, sealed concrete, or content. assemblies No carpet in the project pre-finished solid wood flooring. Pre-(adhesive, may be installed in sealant, flooring finished products, compared to those building entryways, product) are Red finished on site, keep potential laundry rooms, bathrooms, List-free exposures lower through a more kitchens/kitchenettes, or controlled environment during finishing. [3 points] If possible, use a floor system that can utility rooms. Fluid applied finish floors If using carpet, feature mechanical attachments (e.g., may only be installed in specify those that a nails, floating wood flooring) instead of non-occupied spaces, do not use a glues. This approach makes flooring fluorinated (PFAS) easier to recycle in the future. such as mechanical stain repellant. [1 rooms. ooint] Insulation If fiberglass or mineral The project does Alternative insulation products include recycled cotton, cellulose, wool, and wool batts are used, these not include any must be formaldehydetwo-part spray blown fiberglass. All major U.S. polyurethane manufacturers of residential fiberglass foam. [2 points]

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batt insulation have transitioned to formaldehyde-free products. Some

- 2. Control the path and velocity of runoff with silt fencing or equivalent.
- 3. Protect sewer inlets, streams, and lakes on site during construction with silt fencing, silt sacks or comparable measures.
- 4. Provide swales to divert surface water from hillsides.
- 5. Identify and protect significant, high value trees during construction with fencing outside the critical root zone.
- 6. If soil is disturbed during construction on sloped areas, use tiers, erosion blankets, compost blankets, etc. to stabilize soil.

EGC 3.3 Ecosystem Services/ Landscape (mandatory)

- When new landscaping is provided, or existing landscaping is modified: 1. All new landscaping (trees, shrubs, and groundcover, including grasses) should be native or
- adapted to the region. All new plants must be appropriate to the site's soil and microclimate, and none should be invasive species. 2. All disturbed existing landscape areas should be reseeded with native groundcover or plans and

EGC 3.4 Surface Stormwater Management (mandatory)

Applicable to New Construction or Rehab disturbing greater than 5,000 square feet 1. Treat or retain, on site, the precipitation volume from the 60th percentile precipitation event as defined by the U.S. EPA in the Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act.

EGC 3.6 Efficient Irrigation and Water Reuse (mandatory)

- When new irrigation system is provided, or existing system is modified: 1. Comply with all local water restrictions.
- 2. Design irrigation zones to respond to weather considerations, solar exposure, reflected light/heat from adjacent building or hardscape, soil type, topography/slope, plant material.
- 3. Establish irrigation volume and frequency per zone to be appropriate for the climate, soil type, and plants.
- 4. Select emission devices, valves, pipes, controllers, and sensors suitable to the landscape requirements that will facilitate long-term reliability and serviceability.
- 5. Design irrigation system to target each planting area with no overspray of impervious surfaces or adjacent planting areas. Prevent runoff of water from the site. 6. Install timer/controller that activates the valves for each watering zone at the best time of day to
- minimize evaporative losses while maintaining healthy plants and obeying local regulations and water-use guidance.
- 7. Install soil moisture sensor controller per vegetation zone or rain delay controller.

EGC 4.1 & 4.2 Water-Conserving Fixtures (mandatory)

- 1. Service pressure in each unit must not exceed 60 psi. Provide documentation of municipal water pressure. Green verifier will test water pressure at units.
- 2. Following flow rates are required to reduce total indoor water consumption by 30%: 3. Toilets must be **WaterSense certified** and **1.28** gallons per flush or less, including dual-flush and pressure-assisted models.
- 4. Urinals must be **WaterSense certified** and **0.5** gallons per flush or less.
- 5. Showerheads must be **WaterSense-labeled** and **1.75** gallons per minute or less. 6. Kitchen faucets must be **1.5** gallons per minute or less.
- 7. Lavatory faucets must be WaterSense certified and 1.2 gallons per minute or less.

EGC 4.3 Water Quality (mandatory)

Mandatory for Substantial Rehabs built before 1986. Optional for all other projects 1. Replace lead service lines. Determine whether a lead service line (LSL) connects the drinking water main under the street with the building. If an LSL is present, replace it before or while

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		The project uses board insulation that does not contain halogenated flame retardants. <i>[3</i> <i>points]</i>	formaldehyde-free mineral wool batts are also available
Composite wood	Formaldehyde emissions less than or equal to the thresholds provided by CARB Phase 2 and/or TSCA Title IV for plywood, particleboard, MDF, and these materials within other products like cabinets and doors. For any other composite wood products not covered by CARB/TSCA requirements, but used in interior spaces, these must at minimum be NAUF (have no added urea formaldehyde).	Use of composite woods that are certified ultra-low emitting formaldehyde (ULEF). 1 point per product. [2 points maximum]	While finish products (including plywood, MDF, particleboard, and cabinet and door components) comply by law with this mandatory requirement, ensure that all products installed in the project that are exposed to the conditioned space meet these standards or at a minimum do not include added urea formaldehyde. No-added formaldehyde (NAF) products qualify as ULEF and will be eligible for optional points. However, be aware that the alternative binders utilized in these products may include regrettable substitutions. For instance, the most common alternative binder for composite wood is PMDI, which is made with isocyanates. PMDI is expected to be a lower hazard during use than formaldehyde, but more information is needed. Preferable alternatives would be more than half bio-based (e.g., binders that are at least 50% soy) with full content disclosure, so they can be vetted for health hazards.

EGC 6.6 Bath, Kitchen, Laundry Surfaces (mandatory)

1. Use materials that have durable, cleanable surfaces through bathrooms, kitchens, and laundry rooms. Materials should not be prone to deterioration due to moisture intrusion or encourage the growth of mold.

- 2. Use moisture-resistant backing materials such as cement board, fiber cement board, or equivalent per ASTM #D 6329 or ASTM #D 3273 behind tub/shower enclosures. Projects using a one-piece fiberglass enclosure are exempt from this requirement.
- EGC 6.8 Managing Moisture: Foundations (mandatory)

Applicable when foundation work is in scope. Beneath Concrete Slabs (including those in basements and crawl spaces)

Option 1

1. Install a capillary break as follows: 4-inch layer of ½-inch diameter or greater clean aggregate. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above. Option 2

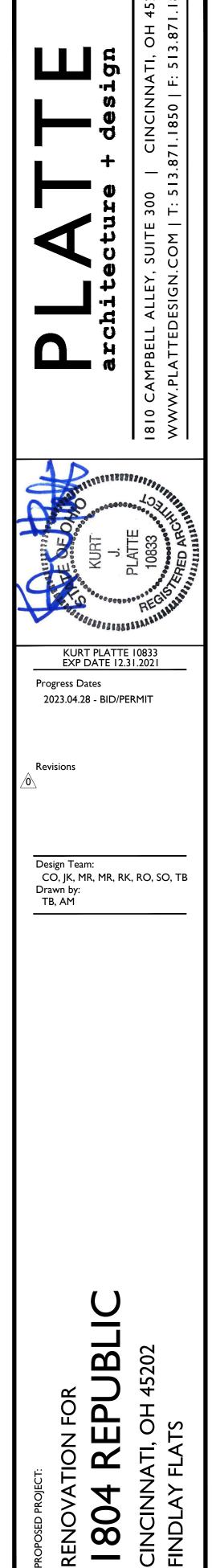
1. Install a 4-inch uniform layer of sand, overlain with a layer or strips of geotextile drainage matting installed according to the manufacturer's instructions. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at

least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above.

EGC 6.9 Managing Moisture: Roofing and Wall Systems (mandatory) Applicable only when wall or roof systems are replaced. Walls

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LEED SPECIFICATIONS		

Job No: 22042

04.28.2023

- Alternatively, install a fluid applied weather-resistive barrier in accordance with manufacturer's instructions.
- bulk water from entering the exterior wall assembly. 3. Flashing installed at bottom of exterior walls with weep holes included for masonry veneer and
- Roof 1. Install drip edge at entire perimeter of roof. install flashing along the intersection, and use kick-out flashing.
- EGC 6.10 Construction Waste Management (mandatory) components of construction waste. Option 1
- 1. Recycle a minimum of **75%** of total construction waste
- EGC 6.11 Recycling Storage all shared community rooms (if applicable).
- EGC 7.1 Radon Mitigation (mandatory)
- Applicable only in EPA Zone 1
- Substantial Rehab certified radon professional.
- or ANSI-AARST MAMF-2014 for single-family homes.
- radon mitigations system per ANSI-AARST RMS-MF 2018 for multifamily buildings or SGM-SF-2017 for homes.
- MAMF-2017 standards for multifamily buildings or ANSI-AARST SGM-SF-2017 or ASTM 2021 for single-family homes.

EGC 7.2 Reduce Lead Hazards in Pre-1978 Buildings (mandatory) 1. Conduct lead risk assessment or inspection to identify lead hazards.

- practices that minimize and contain dust.
- other evaluation (25 CFR 34.110). 4. Replace windows that have deteriorated lead-based paint with energy-efficient windows.
- lead-safe work practices are required.
- dust lead clearance standards.

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National Rater Field Checklist

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01)

Project Name: Number of Units:		_		
Project Address: City:		_ State:		
Thermal Enclosure System	Must Correct	Builder Verified ³		N/A ⁵
1. High-Performance Fenestration & Insulation				
1.1 Fenestration meets or exceeds specification in Items 2.1 & 2.2 of the Natl Rater Design Review Checklist.				-
1.2 Insulation meets or exceeds specification in Items 3.1 & 3.2 of the Natl Rater Design Review Checklist.				-
1.3 All insulation achieves Grade I install. per ANSI / RESNET / ICC Std. 301. Alternatives in Footnote 6. ^{6,7}				-
1.4 Prescriptive Path: Window-to-wall ratio ≤ 30%. ⁸				
1.5 Heated plenums in unconditioned space or ambient conditions must meet the following requirements: ⁹	-			
1.5.1 Sides of plenum are an air barrier and insulated to ≥ R-3ci in CZ 1-4; ≥ R-5ci in CZ 5-6; ≥ R-7.5ci in CZ 7; ≥ R-9.5ci in CZ 8, AND;				
1.5.2 Insulation at top of plenum meets or exceeds the R-value for mass floors from the "All Other" column of Table 502.2(1) of 2009 IECC, AND;				
1.5.3 Bottom of plenum must have at least R-13 insulation. ¹⁰				
1.6 Garages with space heating must meet the following requirements: ⁹				
1.6.1 Insulation on above grade walls and walls on the first story below grade ≥ R-5ci in CZ 5-6; ≥ R-7.5ci in CZ 7; ≥ R-9.5ci in CZ 8, AND;				
1.6.2 Garage ceiling insulation meets or exceeds the R-value for mass floors from the "All Other" column of Table 502.2(1) of 2009 IECC.				
2. Fully-Aligned Air Barriers ¹¹ At each insulated location below, a complete air barrier is provided that is fu	Illy aligned	as follows	S:	
<u>Ceilings</u> : At interior or exterior horizontal surface of ceiling insulation in Climate Zones 1-3; at interior horizonta Climate Zones 4-8. Also, at exterior vertical surface of ceiling insulation in all climate zones (e.g., using a wind of the insulation in every bay or a tabbed baffle in each bay with a soffit vent that prevents wind washing in adj	baffle that	extends t		
2.1 Dropped ceilings / soffits below unconditioned attics, chase / dead space, and all other ceilings.				
Walls: At exterior vertical surface of wall insulation in all climate zones; also at interior vertical surface of wall in	sulation ir	Climate 2	Zones 4-8	. 13
2.2 Walls behind showers, tubs, staircases, and fireplaces.				
2.3 Architectural bump-outs, dead space, and all other exterior walls.				-
Floors: At exterior vertical surface of floor insulation in all climate zones and, if over unconditioned space, also including supports to ensure alignment. Alternatives in Footnotes 15 & 16. 14, 15, 16	at interior	horizontal	surface	
2.4 Floors above garages, floors above unconditioned spaces, and cantilevered floors.				
2.5 All other floors adjoining unconditioned space (e.g., rim / band joists at exterior wall or at porch roof).				
3. Reduced Thermal Bridging	1	1	1	-
3.1 For insulated ceilings with attic space above (i.e., non-cathedralized), Grade I insulation extends to the inside face of the exterior wall below and is ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8. ¹⁷				
3.2 For insulated ceilings with attic space above, attic access panels and drop-down stairs insulated ≥ R-10 o equipped with durable ≥ R-10 cover. ¹⁸				
3.3 Insulation beneath attic platforms (e.g., HVAC platforms, walkways) ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8.				
3.4 For slabs on grade in CZ 4-8, 100% of slab edge insulated to ≥ R-5 at the depth specified by Table 502.2(1) of the 2009 IECC and aligned with the thermal boundary of the walls. ^{19, 20}				
3.5 For elevated concrete slabs in CZ 4-8 (i.e., podiums and projected balconies, but not intermediate slab floor edges) 100% of the slab edge insulated to ≥ R-5. For podiums, insulation must be installed for the full height of the podium wall. Alternatives in Footnote 21. ²¹		•		
3.6 For elevated concrete slabs in CZ 4-8 (i.e., podiums, but not intermediate floor slabs), floor insulation meets the U-factor specified in Table 502.1.2 of the 2009 IECC for Group R when dwelling units are above the slab, and for 'All Other' when common space is above the slab. ²²		•		
3.7 At above-grade walls and rim / band joists separating conditioned from unconditioned space, one of the for	llowing op	tions used	: 23,26	
3.7.1 Continuous rigid insulation, insulated siding, or combination of the two is: ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 ^{24, 25, 26, 27} , OR ;				
3.7.2 Structural Insulated Panels OR; Insulated Concrete Forms OR; Double-wall framing OR; ^{24, 26, 28}				
3.7.3 Option only for wood-framed walls either in CZ 1-3 OR ≤ 3 stories: 'advanced framing' details includ	ing all of th	ie Items b	elow: 26,29	1
3.7.3a Corners insulated \geq R-6 to edge ³⁰ , AND ;				
 3.7.3b Headers above windows & doors insulated ≥ R-3 for 2x4 framing or equivalent cavity width, and ≥ R-5 for all other assemblies (e.g., with 2x6 framing) ³¹, AND; 				
3.7.3c Interior / exterior wall intersections insulated to same R-value as rest of exterior wall. ³²				
57.56 michol / Catchol wai michocoloris insulated to same revalue as rest of exterior wail.				

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1. Provide a continuous housewrap /weather-resistive barrier with sheets lapped shingle-style to prevent bulk water that penetrates the finished exterior cladding system from entering the wall assembly or being introduced through window or door openings or through other penetrations.

2. Flashings at roof /wall intersections and wall penetrations (i.e., plumbing, electrical, vents, HVAC refrigerant lines and the like in addition to windows and doors) must be integrated with the weather-resistive barrier and drainage plane prior to any exterior finish being installed to prevent

weep screen for stucco cladding systems or equivalent drainage system.

2. At wall /roof intersections, maintain ≥ 2 " clearance between wall cladding and roofing materials,

Contractor to investigate local options for diversion of all construction waste and develop a plan for tracking waste diversion either through a contracted company or by tracking and sorting following

1. Owner to provide separate bins for the collection of trash and recycling for each dwelling unit and

1. Owner AND/OR Contractor to confirm pre-construction radon test was conducted by third-party

2. Test for radon in accordance with ANSI-AARST MAMF-2017 standards for multifamily buildings 3. If the radon level is above 4 pCi/L, contractor to install radon-reduction measures or install a

4. After construction completion, have building tested for radon by third-party certified radon professional. If radon levels are above 4 pCi/L, install mitigation in accordance with ANSI-AARST

2. Control identified lead hazards using lead abatement or interim controls, using lead-safe work 3. Follow EPA or state and/or local laws and requirements, where applicable. Alternatively, follow

standard lead treatments defined by HUD as a series of hazard reduction measures designed to reduce all lead-based paint hazards in a dwelling unit without the benefit of a risk assessment or

5. A lead inspection should be undertaken by an EPA certified risk assessor to determine whether paint in a rehab project contains lead, otherwise paint should be presumed to contain lead and

6. Perform dust lead clearance testing at the conclusion of renovation work; compare against EPA

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7. Remove or cover lead-contaminated soil so that it is inaccessible to children. For gardening, use raised beds with lead-free soil.

EGC 7.3 Combustion Equipment (mandatory)

- Applicable only when combustion equipment is provided anywhere in the building: 1. Provide at least one hard-wired carbon monoxide detector with battery backup for each sleeping area, minimum one on each floor.
- 2. Any combustion equipment installed must be power-vented or closed-combustion. 3. For Substantial Rehabs with combustion equipment that is not power-vented or direct-vent, Owner AND/OR Contractor to confirm pre-construction combustion safety test was conducted. The test must be conducted for central systems and for 10% of individual dwelling units systems per RESNET Guidelines for Combustion Safety and Developing Work Orders or BPI Combustion Safety Test Procedures for Vented Appliances.

EGC 7.5 Integrated Pest Management (mandatory)

1. Seal all wall, floor and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing method. 2. Install corrosion-proof metal pest screens for all openings greater than ¹/₄ inch.

3. Seal off entry points under kitchen and bathroom sinks.

EGC 7.7 Ventilation (mandatory)

- 1. Local Exhaust a. Design and install local exhaust systems in all bathrooms (including half-baths) and the kitchen to meet the requirements of ASHRAE Standard 62.2–2010, Sections 5 and 7 or local equivalent, whichever is more stringent. Provide minimum intermittent local exhaust flow rates of 100 cfm or 5ACH in kitchen, and 50 cfm in bathrooms.
 - b. Exhaust air to the outdoors. Do not route exhaust ducts to terminate in attics or interstitial spaces. Just recirculating range hoods or recirculating over-the-range microwaves do not satisfy the kitchen exhaust requirements.
 - c. Use ENERGY STAR-labeled bathroom exhaust fans in all bathrooms.
- 2. Ventilation a. Fresh air ventilation to dwelling units shall comply with ventilation requirements of ASHRAE 62.2–2010.
 - b. Project teams using exhaust-only ventilation systems must comply with flow rate required by ASHRAE 62.2–2010. If bathroom exhaust fan is used for exhaust-only fresh-air ventilation, then refer to HVAC drawings for exhaust fan run-time and controls. Coordinate continuous / intermittent fan run-time and controls with HVAC and Electrical contractor. Provide dual-speed bathroom exhaust fan with continuous speed set to 30
- cfm in 1-Bedroom units, 45 cfm in 2-Bedroom units, and 45 cfm in 3-Bedroom units. 3. In full accordance with ASHRAE 62.1-2010, install a mechanical ventilation system for all hallways and common spaces in each multifamily building of four stories or more.
- 4. All systems and associated ductwork must be installed per manufacturer's recommendations. 5. If using central ventilation systems with rooftop fans, each rooftop fan must be direct-drive and variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000
- must also have an ECM motor. 6. Green Verifier/Energy Rater to conduct testing to verify dwelling unit ventilation system flow rates

are within 15 CFM or 15% of the design value.

EGC 7.12 Beyond ADA: Universal Design (mandatory) Select one option below to implement. Implement three strategies in that option. For all selected strategies affecting dwelling units, implement that strategy for 75% of the project's dwelling units. 1. Create approachable building entries that are welcoming, are easy to identify, promote feelings of

safety, and are accessible without the use of stairs. Include a covered entryway with seating,

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National Rater Field Checklist

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01) 4. Air Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or Must Builder Rater Correct Verified ³ Verified ⁴ N/A ⁵ equivalent material.) The following items must be verified in dwelling units and common spaces to reduce air leakage to exterior, adjacent buildings, or conditioned spaces 4.1 Ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, & other penetrations to unconditioned space sealed, with blocking / flashing as needed. 4.2 Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in insulated ceiling without attic above, exterior surface of fixture insulated to \geq R-10 in CZ 4-8. 4.3 Continuous top plate or blocking is at top of walls adjoining unconditioned space including at balloon-framed parapets, and sealed 4.4 Drywall sealed to top plate at all unconditioned attic / wall interfaces using caulk, foam, drywall adhesive (but not other construction adhesives), or equivalent material. Either apply sealant directly between drywall and top plate or to the seam between the two from the attic above. 4.5 Rough opening around windows & exterior doors sealed. ³³ 4.6 Assemblies that separate attached garages from occupiable space sealed and, also, an air barrier installed, sealed, and aligned with these assemblies. ³⁴ 4.7 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with doorsweep and weatherstripping or equivalent gasket. 4.8 Attic access panels, roof hatches and drop-down stairs are gasketed (i.e., not caulked) or equipped with durable covers that are gasketed. 18 The following items must be additionally verified in dwelling units, to reduce air leakage between conditioned spaces 4.9 Doors serving as a unit entrance from a corridor/stairwell made substantially air-tight with doorsweep and weatherstripping or equivalent gasket. 4.10 Rater-measured compartmentalization is no greater than 0.30 CFM50 per square feet of dwelling unit enclosure area, following procedures in ANSI / RESNET / ICC Std. 380. 35 4.10.1 For dwelling units with forced air distribution systems without ducted returns and located in a closet adjacent to unconditioned space, the Rater-measured pressure difference between the space containing the air handler and the conditioned space during the compartmentalization test is no greater than 5 Pa.³⁶ HVAC System 37 Rate Must Verified N/A 5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit HVAC Correct 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA Std. 310. See Footnote 40 for exemptions. 41 5b.1 HVAC manufacturer & model number on installed equipment matches either of the following (check box): ⁴ □ □ National HVAC Design Report (4.6-4.9 & 4.25-4.26) □ Written approval received from designer B 5b.2 External static pressure measured by Rater at contractor-provided test locations and documented below: ⁴² Return-Side External Static Pressure: _____ IWC Supply-Side External Static Pressure: IWC 5.4 Prescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the efficiency levels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units. 5.5 ERI Path: Heating and cooling equipment serving common spaces, but not serving dwelling units, meet the efficiency levels specified in the Exhibit X. See Exhibit X for restrictions on electric resistance heating. 5.6 National HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the building a project fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National HVAC Functional Testing Checklist, the checklist is not required to be collected for the systems they verify.⁴³ 5.7 Rater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional Testing Checklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory.⁴³ Credential(s): FT Agent Name(s): Must LP Rater Correct Verified⁴⁴ Verified ⁴ N/A ⁵ Equipment Controls 5.8 All heating and cooling systems serving a dwelling unit have thermostatic controls within the dwelling unit which are not located on exterior walls 5.8.1 Prescriptive Path: Dwelling unit thermostats are programmable. 5.9 Stair and elevator shaft vents equipped with motorized dampers that are capable of being automatically closed during normal building operation and are interlocked to open as required by fire and smoke detection systems. Dampers are verified to be closed at the time of inspection.

Energy STAR
5.10 Freeze pro heat tracing systems wh
5.10.1 Where temperature
5.11 Snow- and the paveme control is ins the potentia

5.12 For hydronic from the rise cooled fluid thermostat. 5.13 Terminal uni or pressure i 14 Piping of a h

Design Repo 15 For circulatir power or larc power or lar

1 Ductwork in: Bedrooms w balanced (e. measured p

handlers are .3 All supply and 6.3.1 Prescriptiv ENERGY ST

air handle <u>One or tw</u> Three or 6.4.2 <u>Final</u>: Te

greenery, and lighting. Include exterior signage that is prominent, visible from sidewalk, access road, or parking lot.

- 2. Provide clear signage throughout the building that avoids jargon, uses clear language, incorporates a positive frame, and is multi-lingual where appropriate. Incorporate illustrations to encourage universal understanding. Signage for way-finding and other purposes should be available in the interior and exterior spaces.
- 3. Avoid strong patterns on floor finishes. Use carpets and flooring that have subtle neutral patterns.

EGC 8.1 Building Maintenance Manual (mandatory)

- General Contractor to provide Maintenance manual that addresses HVAC operations and maintenance, appliance guidance, lighting equipment, green cleaning products, and pest control. Refer to EGC 2020 criteria handbook for details.
- EGC 8.2 Emergency Management Manual (mandatory)
- 1. General Contractor to provide Emergency Management Manual targeted toward operations and maintenance staff and other building level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate housing throughout an emergency and cover a range of topics including but not limited
- a. Communication plans for staff and residents to use in the event of an emergency. b. Useful contact information for public utility and other service providers
- c. Infrastructure and building "shutdown" procedures
- EGC 8.4 Walk-throughs and Orientations to Property Operations (mandatory)
 - General Contractor to provide a comprehensive walk-through and orientation for property manager(s) and building operations staff within 90 days of initial occupancy. Use the appropriate manuals (8.1 & 8.2) as the base of the curriculum, and review the project's green features, operations and maintenance procedures, and emergency protocols.

ENCLOSURES

Enterprise Green Communities Checklist 2. Energy Star National Rater Field Checklist

END OF SECTION 018113

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National Rater Field Checklist¹

ENERGY STAR Multifamily New Construction, Version 1 / 1	.1 / 1.2	? (Rev.	01)	
5.10 Freeze protection systems, such as heat tracing of piping and heat exchangers, including self-regulating heat tracing, and garage / plenum heaters include automatic controls that are verified to shut off the systems when pipe wall or garage / plenum temperatures are above 40°F.				
5.10.1 Where heat tracing is installed for freeze-protection, controls must be based on pipe wall temperature and a minimum of R-3 pipe insulation is also required.				
5.11 Snow- and ice-melting systems include automatic controls that are verified to shut off the systems when the pavement temperature is above 50°F and no precipitation is falling, and an automatic or manual control is installed that is verified to shut off system when the outdoor temperature is above 40°F, so that the potential for snow or ice accumulation is negligible.				
Hydronic Distribution		1	1	
5.12 For hydronic distribution systems, all terminal heating and cooling distribution equipment are separated from the riser or distribution loop by a control valve or terminal distribution pump, so that heated or cooled fluid is not delivered to the dwelling unit distribution equipment when there is no call from the thermostat.				
5.13 Terminal units in hydronic distribution systems are equipped with pressure independent balancing valves or pressure independent control valves.				
5.14 Piping of a heating or cooling system is insulated in accordance with Item 4.40 on the National HVAC Design Report, including where passing through planks or any other penetrations.				
5.15 For circulating pumps serving hydronic heating or cooling systems with three-phase motors, 1 horse- power or larger, motors meet or exceed efficiency standards for NEMA Premium™ motors. If 5 horse- power or larger, also installed with variable frequency drives.				
6. Duct Quality Installation - Applies to Heating, Cooling, Ventilation, Exhaust, & Pressure Balancing D Unless Noted in Footnote.	lucts,	Must Correct	Rater Verified ^₄	N/A ⁵
6.1 Ductwork installed without kinks, sharp bends, compressions, or excessive coiled flexible ductwork. ⁴⁵				
6.2 Bedrooms with a design supply airflow ≥ 150 CFM (per Item 5.2 on the National HVAC Design Report) probalanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Rate measured pressure differential ≥ -5 Pa and ≤ +5 Pa with respect to the main body of the dwelling unit whe handlers are operating. See Footnote 46 for test configuration. ⁴⁶	ter-			
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥	R-6. 47			
6.3.1 Prescriptive Path: Dwelling unit ductwork meets the location and insulation requirements specified in th ENERGY STAR Multifamily Reference Design.	e			
6.4 Rater-measured total duct leakage in dwelling units meets one of the following two options: ^{48, 49}				
 6.4.1 <u>Rough-in</u>: Tested per allowances below, with air handler & all ducts, building cavities used as ducts, & boots installed. In addition, <u>all</u> duct boots sealed to finished surface, Rater-verified at final. ⁵⁰ <u>No ducted returns</u>³⁶: The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. <u>One or two ducted returns</u>³⁶: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. <u>Three or more ducted returns</u>³⁶: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. 	ater-			
 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, du & register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ <u>No ducted returns</u>³⁶: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. <u>One or two ducted returns</u>³⁶: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns³⁶: The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. 	ater-			
6.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM25. ^{48, 52}				
6.6 Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints, longitudinal seams, and duct wall penetrations with mastic or mastic tape.				
6.7 Duct leakage of central exhaust systems that serve four or more dwelling units, meets one of the following		s:		
6.7.1 <u>Rough-in</u> : Tested including horizontal run outs, trunks, branches, and take-offs up to, but not including, grilles, the leakage does not exceed 25% of exhaust fan flow. ⁵³				
6.7.2 <u>Final</u> : Tested inclusive of all ductwork between the fan and the grilles, the leakage does not exceed 30 ⁴ exhaust fan flow. ⁵³	% of			

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KURT PLATTE 10833 EXP DATE 12.31.2021

CO, JK, MR, MR, RK, RO, SO, TB

2023.04.28 - BID/PERMIT

Progress Dates

Revisions

Design Team:

Drawn by:

TB, AM

LEED SPECIFICATIONS



National Rater Field Checklist¹

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01) 7. Dwelling-Unit & Common Space Mechanical Ventilation System

(National HVAC Design Report Item # indicated in parenthesis) 7.1 Ventilation manufacturer & model number on installed equipment matches either of the followin

 National HVAC Design Report Written approval received from designation .2 Rater-measured ventilation rate is within either \pm 15 CFM or \pm 15% of dwelling unit design value exceeds rates required by ASHRAE 62.2-2010. 54

3 Measured ventilation rate is within either \pm 15 CFM or \pm 15% of common space design values (2 exceeds rates required by ASHRAE 62.1-2010 (2.8). 55 7.4 Townhouses only: A readily-accessible ventilation override control installed and also labeled if i

obvious (e.g., a label is required for a standalone wall switch, but not for a switch that's on the equipment) 5. No outdoor air intakes connected to return side of the dwelling unit HVAC system, unless contro.

operate intermittently & automatically based on a timer and to restrict intake when not in use (e.g damper) 7.6 If located in the dwelling unit, system fan rated \leq 3 sones if intermittent, \leq 2 sones if continuous

7.7 If system utilizes the dwelling unit HVAC fan, then the installed fan type is ECM / ICM (4.12), or reduce the standalone ventilation run-time by accounting for hours when the HVAC system is he 7.8 In-unit bathroom fans or in-line fans are ENERGY STAR certified if used as part of the dwelling

ventilation system. 57 7.9 If central exhaust fans, \leq 1 HP, are installed as part of the dwelling-unit mechanical ventilation

direct-drive, ECM, with variable speed controllers. If > 1 HP, they are installed with NEMA[™] Pre 7.10 Air inlet locations (Complete if ventilation air inlet locations were installed (2.22, 2.23); otherwise 7.10.1 Inlet(s) pull ventilation air directly from outdoors and not from attic, crawlspace, garage,

7.10.2 Inlet(s) are \geq 2 ft. above grade or roof deck; \geq 10 ft. of stretched-string distance from know sources not exiting the roof, and ≥ 3 ft, distance from drver exhausts and sources exiting the 8. Local Mechanical Exhaust (National HVAC Design Report Item # indicated in parenthesis) Dwelling Unit Mechanical exhaust - In each dwelling unit kitchen and bathroom, a system is ins and meets one of the following Rater-measured airflow and manufacturer-rated sound level standar

		•	
Location		Continuous Rate	Intermittent Rate 62
8.1 Kitchen	Airflow	\geq 5 ACH, based on kitchen volume ^{63, 64}	≥ 100 CFM and, if not integra 5 ACH based on kitchen volu
	Sound	Recommended: ≤ 1 sone	Recommended: ≤ 3 sones
9.2 Dethroom	Airflow	≥ 20 CFM	≥ 50 CFM
8.2 Bathroom	Sound	Required: ≤ 2 sones	Recommended: ≤ 3 sones
Common Spa	ce ² and G	arage Mechanical Exhaust	
8.3 Mossured e	vhauet rato	s are > Δ SHRAE 62.1 rates (2c) ⁵⁵	

8.3 Measured exhaust rates are \geq ASHRAE 62.1 rates (2c). ⁵⁵ 8.4 Where a garage exhaust ventilation system is installed, it is equipped with controls that sense 0

9. Filtration

9.1 MERV 6+ filter(s) installed in each dwelling unit ducted mech. System, serving an individual dwe facilitate access & regular service by the occupant or building owner. ⁶⁶ 9.1.1 Filter access panel includes gasket and fits snugly against the exposed edge of filter when

bypass. 9.1.2 All return air and mechanically supplied outdoor air passes through filter prior to conditionin **10. Combustion Appliances**

10.1 Furnaces, boilers, and water heaters located within the building's pressure boundary are mecl direct-vented. If mechanically drafted, the minimum volume of combustion air required for safe manufacturer and/or code shall be met or exceeded and make-up air sources must be mechar the combustion appliance is not in operation. Alternatives in Footnote 70. 68, 69, 70 10.2 Fireplaces located within the building's pressure boundary are direct-vented. 68, 69

10.3 No unvented combustion appliances other than cooking ranges or ovens are located inside the boundary. For cooking ranges and ovens, local mechanical exhaust per Checklist Item 8.1 req

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National Rater Field Checklist Footnotes ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) 18. Examples of durable covers include, but are not limited to, pre-fabricated covers with integral insulation, rigid foam adhered to cover with adhesive, or batt insulation mechanically fastened to the cover (e.g., using bolts, metal wire, or metal strapping. Low-slope roof hatch covers

- to be insulated to R-5 minimum 19. Consistent with the 2009 IECC, slab edge insulation is only required for slab-on-grade floors with a floor surface less than 24 inches below grade. Slab-on-grade perimeter insulation shall extend to the top of the slab to provide a complete thermal break. If the top edge of the insulation is installed between the exterior wall and the edge of the interior slab, it shall be permitted to be cut at a 45-degree angle away from the exterior wall. Alternatively, the thermal break is permitted to be created using \geq R-3 rigid insulation on top of an existing slab (e.g., in a building undergoing a gut rehabilitation). In such cases, up to 10% of the slab surface is permitted to not be insulated (e.g., for sleepers, for sill plates). Insulation installed on top of slab shall be covered by a durable floor surface (e.g., hardwood, tile, carpet).
- 20. Where an insulated wall separates a garage, patio, porch, or other unconditioned space from the conditioned space of the building, slab perimeter insulation shall also be installed at this interface to provide a thermal break between the conditioned and unconditioned slab, if the slab is in contact with the ground at that interface. Where specific details cannot meet this requirement, partners shall provide the detail to EPA to request an exemption prior to the building's certification. EPA will compile exempted details and work with industry to develop feasible details for use in future revisions to the program. A list of currently exempted details is available at: www.energystar.gov/slabedge.
- 21. For projected balconies, install a minimum of R-5 slab edge insulation to provide a thermal break between conditioned space and the unconditioned projected balcony slab. Alternatively, a UA calculation for the wall assembly that accounts for this uninsulated projected slab must be performed to demonstrate compliance with Item 1.2. For the purpose of this UA calculation, the area of the wall that is uninsulated due to the projected balcony is required to be calculated as 400% of that actual area. For example, for a projected balcony that is 20 feet wide, and has a thickness of 1 foot, the area to be used in the UA calculation is 80 ft² instead of 20 ft². The distance the balcony projects from the building is not used in this calculation
- 22. Whether insulating from above or below the slab, thermal breaks must be accounted for when determining compliance with floor U-factors. Where structural columns cause a discontinuity in the installed floor insulation, the UA calculation for the floor assembly must account for this uninsulated area of the floor. For the purpose of this UA calculation, the area of the floor that is uninsulated due to the structural columns is required to be calculated as 400% of that actual area. For example, for a 4'x4' column, the area to be used in the UA calculation is 64 ft² instead of 16 ft². The height of the column is not used in this calculation. Alternatively, if the structural column is insulated for a minimum of 4 vertical feet, the modification to the UA calculation is not required, and the U-value of the column insulation shall be associated with the uninsulated area of the floor due to the column.
- 23. Item 3.7 is applicable to walls that are adjacent to other buildings or adjacent to unconditioned spaces within the building. Mass walls utilized as the thermal mass component of a passive solar design (e.g., a Trombe wall) are exempt from this Item. To be eligible for this exemption, the passive solar design shall be comprised of the following five components: an aperture or collector, an absorber, thermal mass, a distribution system, and a control system. For more information, see: www.energy.gov/sites/prod/files/guide_to_passive_solar_home_design.pdf.
- Item 3.7 or the pathway in the assembly with the least thermal resistance, as determined using a method consistent with the 2013 ASHRAE Handbook of Fundamentals, shall provide ≥ 50% of the applicable assembly resistance, defined as the reciprocal of the mass wall equivalent U-factor in the 2009 IECC Table 502.1.2. Documentation identifying the pathway with the least thermal resistance and its resistance value shall be collected by the Rater and any Builder Verified or Rater Verified box under Item 3.7 shall be checked.
- 24. Up to 10% of the total exterior wall surface area is exempted from the reduced thermal bridging requirements to accommodate intentional designed details (e.g., architectural details such as thermal fins, wing walls, brick returns, stone window sills, metal panels, or masonry fireplaces; structural details, such as fasteners (e.g., shelf angles, metal clips, z-girts, brick ties), projected balconies, and service openings (e.g., PTACs or PTHPs), but not steel columns or wall area occupied by intermediate floors). It shall be apparent to the Rater that the exempted areas are intentional designed details or the exempted area shall be documented in a plan provided by the builder, architect, or engineer. The entire area of the wall area that is bypassed by the fastener must be used in the calculation. The Rater need not evaluate the necessity of the designed detail to certify the project.
- 25. If used, insulated siding shall be attached directly over a water-resistive barrier and sheathing. In addition, it shall provide the required Rvalue as demonstrated through either testing in accordance with ASTM C 1363 or by attaining the required R-value at its minimum thickness. Insulated sheathing rated for water protection can be used as a water resistant barrier if all seams are taped and sealed. If non-insulated structural sheathing is used at corners, the advanced framing details listed in Item 3.7.3 shall be met for those wall sections 26. Walls and rim / band joists using steel or other metal framing shall meet the reduced thermal bridging requirements by complying with Item
- 3.7.1 of the Checklist and may not demonstrate compliance using Item 3.7.2 or 3.7.3. 27. In a building undergoing a gut rehabilitation, continuous interior insulation may be used in lieu of continuous exterior rigid insulation or insulated siding.
- 28. Double-wall framing is defined as any framing method that ensures a continuous layer of insulation covering the studs to at least the R-value required in Item 3.7.1 of the Checklist, such as offset double-stud walls, aligned double-stud walls with continuous insulation between the adjacent stud faces, or single-stud walls with 2x2 or 2x3 cross-framing. In all cases, insulation shall fill the entire wall cavity from the interior to exterior sheathing except at windows, doors and other penetrations
- 29. Rim / band joists are exempt from this requirement. For the purpose of this requirement, "< 3 stories" refers to any portion of the building elevation where the wood-framed walls do not exceed 3 stories in height. Partial floors that meet the definition of a mezzanine or loft, as defined by the 2012 IRC, do not count as a story. All 'advanced framing' details shall be met except where the builder, architect, or engineer provides a framing plan that encompasses the details in guestion, indicating that structural members are required at these locations and including the rationale for these members (e.g., full-depth solid framing is required at wall corners or interior / exterior wall intersections for shear strength, a full-depth solid header is required above a window to transfer load to jacks studs, additional jack studs are required to support transferred loads, additional cripple studs are required to maintain on-center spacing, or stud spacing must be reduced to support multiple stories in a multifamily building). The Rater shall retain a copy of the detail and rationale for their records, but need not evaluate the rationale to certify the building.
- 30. All exterior corners shall be constructed to allow access for the installation of \geq R-6 insulation that extends to the exterior wall sheathing. Examples of compliance options include standard-density insulation with alternative framing techniques, such as using three studs per corner, or high-density insulation (e.g., spray foam) with standard framing techniques. Revised 3/25/2020

sion 1 / 1.1 / 1.2 (Rev. 01)					
	Must Correct	Rater Verified ^₄	N/A ⁵		
ng (check box): ⁴¹ igner			-		
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(2.9), and meets or			-		
its function is not e ventilation					
rols are installed to e.g., motorized			-		
s, or exempted. 56			-		
or the controls will neating or cooling.					
g-unit mechanical					
system, then they are remium Motors.					
/ise check "N/A"): 58, 59	-	-			
or adjacent dwelling			-		
wn contamination the roof. ⁶⁰			-		
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Mass walls that are not part of a passive solar design (e.g., CMU block or log home enclosure) shall either utilize the strategies outlined in

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		. / .2		01)	
Other	Must Correct	LP Verified ⁴⁴	Rater Verified ^₄	N/A ⁵	
11. Domestic Hot Water		<u> </u>		<u> </u>	
11.1 Prescriptive Path: Hot water equipment rated in EF of ENERGY STAR Multifamily Reference Design. Boilers	-				
11.2 ERI: For hot water equipment serving common space rated in EF or UEF, meet the efficiency levels specifie Design. Where rated in thermal efficiency, meet or exe	-				
11.3 For in-unit storage water heaters, AHRI Certificate co	nfirms the presence of a heat trap.		-		
11.4 DHW piping located in the dwelling unit is insulated w					-
11.5 Rater-measured delivery temperatures at faucets and	-		-		
12. Lighting 12.1 Common Space ² Lighting Controls:					
 12.1 Common Space ² Lighting Controls. 12.1.1 ERI and Prescriptive Path: All common spaces ² lobby and where automatic shutoff would endanger or automatic bi-level lighting controls installed and of 					
12.1.2 ASHRAE path only: All common spaces ² (includ corridors, and stairwells and where automatic shutc occupancy sensors or automatic bi-level lighting co					
12.2 Common Space ² Lighting Power Density Maximum ((except garages): ⁷⁴				
12.2.1 ERI and Prescriptive Path: Total installed lighting not exceed ASHRAE 90.1-2007 allowances for thos Building Area Method. See Footnote 75 for allowance	se combined spaces, using the Space-by-Space or				
12.2.2 ASHRAE path only: Total installed lighting power exceed ASHRAE 90.1-2007 allowances for those of Building Area Method, by more than 20%. See Foot					
12.3 Shared garages: Lighting power density does not exc					
12.4 Exterior lighting controls: Fixtures, including parking I timers or photocell controls except fixtures intended for located on dwelling unit balconies.					
12.5 ERI Path: All exterior and common space lighting fixt ENERGY STAR Multifamily Reference Design, excep	-				
12.6 Prescriptive Path: All lighting fixtures (i.e., dwelling units, common spaces, and exterior) meet the efficiency requirements in the ENERGY STAR Multifamily Reference Design. ^{76, 77}					
12.7 Prescriptive Path: Dwelling unit overall in-unit lighting overall lighting power density, use 1.1 W/ft ² where lighting power density.	-				
13. Appliances and Plumbing Fixtures	Must Correct	Rater Verified ⁴	N/A ⁵		
13.1 Prescriptive Path: Installed appliances and plumbing criteria in the ENERGY STAR Multifamily Reference I					
13.2 ERI Path: Installed appliances and plumbing fixtures the criteria in the ENERGY STAR Multifamily Referen					
13.3 Prescriptive Path: Shower compartments with multipl rate per shower compartment must not exceed 1.75 g					
14. Whole Building Energy Consumption Data Acqu					
14.1 For buildings 50,000 ft ² and larger, a strategy that enaconsumption data (electricity, natural gas, chilled water,					
Rater Name: Rater Pre-Drywall Inspection Date(s):					
Rater Company Name:					
Rater Name: Rater Final Inspection Date(s):					
Rater Company Name:					
Builder/Developer Employee:	Builder Inspection Date(s):		Builder Ir	itials:	
Builder/Developer Name:					
Licensed Professional:	LP Inspection Date(s):		LP Initials	s:	
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- manufacturer's nominal insulation value. 32. Insulation shall run behind interior / exterior wall intersections using ladder blocking, full length 2x6 or 1x6 furring behind the first partition
- stud, drywall clips, or other equivalent alternative 33. In Climate Zones 1 through 3, a continuous stucco cladding system sealed to windows and doors is permitted to be used in lieu of sealing rough openings with caulk or foam.
- 34. For dwelling or sleeping units adjacent to garages, EPA recommends, but does not require, carbon monoxide (CO) alarms installed in a central location in the immediate vicinity of each separate sleeping zone and according to NFPA 720.
- 35. Where a sampling protocol is permitted in accordance with the National or California Program Requirements, at least 20% of the dwelling or sleeping units adjacent to a garage shall be selected for testing.
- 36. A 'ducted return' is defined as a continuous duct made of sheet metal, duct board, or flexible duct that connects one or more return grilles to the return-side inlet of the air handler. Any other approach to convey air from return or transfer grille(s) to the air handler, such as the use of building cavities, does not constitute a 'ducted return'.
- 37. This section of the Checklist is designed to meet the requirements of ASHRAE 62.1-2010 / 2013, ASHRAE 62.2-2010 / 2013, and ANSI / ACCA's 5 QI-2015 protocol, thereby improving the performance of HVAC equipment in new multifamily buildings when compared to multifamily buildings built to minimum code. However, these features alone cannot prevent all ventilation, indoor air quality, and HVAC problems, (e.g., those caused by a lack of maintenance or by occupant behavior). Therefore, this Checklist is not a guarantee of proper ventilation, indoor air quality, or HVAC performance.
- 38. Two paths are provided for satisfying the mandatory requirements for all certified buildings, Exhibit 2. Path A Dwelling Unit HVAC Grading allows a Rater to utilize ANSI / RESNET / ACCA Std. 310³⁹, a standard for grading the installation of residential HVAC systems serving individual Dwelling Units and a Functional Testing Agent to verify common spaces and central systems. Path B – Functional Testing Agent utilizes a Functional Testing Agent for all systems. Either path may be selected, but all requirements within that path must be satisfied for the building to be certified
- 39. Path A Dwelling Unit HVAC Grading shall not be used until an Effective Date has been defined by RESNET for ANSI / RESNET / ACCA Std. 310. Path A – Dwelling Unit HVAC Grading shall then use ANSI / RESNET / ACCA Std. 310 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 310 shall also be followed. For units following path A, all unitary HVAC Systems including air conditioners and heat pumps up to 65 kBtuh and furnaces up to 125 kBtuh serving individual dwelling or sleeping units shall comply with 5a.1 through 5a.3 for the building to be certified.
- 40. If the non-invasive procedure in ANSI / RESNET / ACCA Std. 310 is not permitted to be used during the final inspection of a unit (i.e., due to the equipment type or to outdoor air temperatures that do not meet the requirements of the non-invasive method), then the unit is permitted to be certified with a default refrigerant charge designation of Grade III. Note that in these circumstances, the weigh-in method procedure in ANSI / RESNET / ACCA Std. 310 may still be used to pursue a Grade I designation.
- 41. If installed equipment does not match the National HVAC Design Report, then prior to certification the Rater shall obtain written approval from the designer (e.g., email, updated National HVAC Design Report) confirming that the installed equipment meets the requirements of the National HVAC Design Report. In cases where the condenser unit is installed after the time of inspection by the Rater, the HVAC manufacturer and model numbers on installed equipment can be documented through the use of photographs provided by the Functional Testing Agent after installation is complete.
- 42. The Rater shall measure and record the external static pressure in the return-side and supply-side of the system using the contractorprovided test locations. However, at this time, the Rater need not assess whether these values are within a specific range to certify the dwelling unit.
- 43. Functional Testing Agents must hold an approved credential, as listed at www.energystar.gov/ftas, or must be a representative of the Original Equipment Manufacturer (OEM), or a contractor credentialed by an HVAC Quality Installation Training and Oversight Organization (H-QUITO), if not completing Sections 6 and higher. Functional Testing Agents may not be the installing contractor unless they are a credentialed contractor. An explanation of the credentialing process and links to H-QUITOs, which maintain lists of credentialed contractors, can be found at www.energystar.gov/findhvac. A directory of other FT Agents can be found at www.energystar.gov/ftas. For Path A, a Functional Testing Agent is not needed to complete Sections 2 and 3 for unitary HVAC systems serving dwelling units that will be verified and graded by the Rater.
- 44. At the discretion of the Rater, a Licensed Professional (LP), (i.e., a Registered Architect or Professional Engineer in good standing and with a current license), may verify any of the items in Sections 5, 11, and 12 of this Checklist, where a checkbox is provided for "LP Verified" When exercised, the LP's responsibility will be formally acknowledged by the LP signing off on the checklist for the item(s) that they verified. However, if a quality assurance review indicates that Items have not been successfully completed, the Rater will be responsible for facilitating corrective action
- 45. Kinks are to be avoided and are caused when ducts are bent across sharp corners such as framing members. Sharp bends are to be avoided and occur when the radius of the turn in the duct is less than one duct diameter. Compression is to be avoided and occurs when flexible ducts in unconditioned space are installed in cavities smaller than the outer duct diameter and ducts in conditioned space are installed in cavities smaller than inner duct diameter. Ducts shall not include coils or loops except to the extent needed for acoustical control.
- 46. Item 6.2 does not apply to ventilation ducts, exhaust ducts, or non-ducted systems. For an HVAC system with a multi-speed fan, the highest design fan speed shall be used when verifying this requirement. When verifying this requirement, doors separating bedrooms from the main body of the dwelling unit (e.g., a door between a bedroom and a hallway) shall be closed and doors to rooms that can only be entered from the bedroom (e.g., a closet, a bathroom) shall be open. The Rater-measured pressure shall be rounded to the nearest whole number to assess compliance
- 47. Item 6.3 does not apply to ducts that are a part of local mechanical exhaust or exhaust-only dwelling-unit mechanical ventilation systems. EPA recommends, but does not require, that all metal ductwork not encompassed by Section 6 (e.g., exhaust ducts, duct boots, ducts in conditioned space) also be insulated and that insulation be sealed to duct boots to prevent condensation

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Footnotes

moisture.

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1. This Checklist applies to all dwelling units, sleeping units, common spaces², and garages (open or enclosed) in the building being certified, and where specified, parking lots. These requirements do not apply to parking garages or lots where the cost of the energy use of the parking garage or lot is not the responsibility of the Builder/Developer, Building Owner or Property Manager. This Checklist does not apply to commercial or retail spaces. This Checklist does not apply to common spaces² that are located in buildings on the property without any dwelling or sleeping units. The term 'sleeping unit' refers to a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Where the term 'dwelling unit' is used in this Checklist, the requirement is also required of 'sleeping' units. The term 'building' refers to a structure utilized or intended for supporting or sheltering occupancy for a residential purpose; a structure with no dwelling or sleeping units connected to a structure with dwelling or sleeping units by less than 10% of its exterior wall area is not to be included in the 'building'.

2. The term 'common space' refers to any spaces in the building being certified that serve a function in support of the residential part of the building that is not part of a dwelling or sleeping unit. This includes spaces used by residents, such as corridors, stairs, lobbies, laundry rooms, exercise rooms, residential recreation rooms, and dining halls, as well as offices and other spaces used by building management, administration or maintenance in support of the residents.

3. At the discretion of the Rater, the builder or developer may verify up to eight items in Sections 1-4 of this Checklist. For the purpose of this Checklist, "Builder" represents either the builder or the developer. When exercised, the builder's responsibility will be formally acknowledged by the builder, or their designated agent, signing off on the checklist for the item(s) that they verified. However, if a quality assurance review indicates that Items have not been successfully completed, the Rater will be responsible for facilitating corrective action.

4. The term 'Rater' refers to the person(s) completing the third-party verification required for certification. The person(s) shall: a) be a Certified Rater, Approved Inspector, or an equivalent designation as determined by a Verification Oversight Organization or Multifamily Review Organization and, b) have attended and successfully completed an EPA-recognized training class. See www.energystar.gov/mftraining. 5. The column titled "N/A," which denotes items that are "not applicable," should be used when the checklist Item is not present in the project or conflicts with local requirements.

6. Two alternatives are provided: a) Grade II cavity insulation is permitted to be used for assemblies that contain a layer of continuous, air impermeable insulation ≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8; b) Grade II batts are permitted to be used in floors if they fill the full width and depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving Grade I is the compression caused by the excess insulation

7. Ensure compliance with this requirement using ANSI / RESNET / ICC Std. 301 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 301 shall also be followed.

8. Window-to-Wall ratio is taken as the sum of all window area divided by the total exterior above-grade wall area. All decorative glass and skylight window area contribute to the total window area to above-grade wall ratio (WWR). Spandrel sections of curtain wall systems contribute to the above-grade wall area.

9. Compliance with Items 1.5 and 1.6 is not required for ASHRAE projects, but the energy used by the heating systems must be modeled following the requirements in the Simulation Guidelines, available at <u>www.energystar.gov/mfguidance</u> 10. The bottom of the plenum is permitted to be suspended ceiling tiles or other non-air barrier material. If fiberglass insulation is installed, it must be paper-faced.

11. For purposes of this Checklist, an air barrier is defined as any durable solid material that blocks air flow between conditioned space and unconditioned space, including necessary sealing to block excessive air flow at edges and seams and adequate support to resist positive and negative pressures without displacement or damage. EPA recommends, but does not require, rigid air barriers. Open-cell or closed-cell foam shall have a finished thickness ≥ 5.5 in. or 1.5 in., respectively, to qualify as an air barrier unless the manufacturer indicates otherwise

If flexible air barriers such as house wrap are used, they shall be fully sealed at all seams and edges and supported using fasteners with caps or heads \geq 1 in. diameter unless otherwise indicated by the manufacturer. Flexible air barriers shall not be made of kraft paper, paperbased products, or other materials that are easily torn. If polyethylene is used, its thickness shall be ≥ 6 mil.

12. All insulated ceiling surfaces, regardless of slope (e.g., cathedral ceilings, tray ceilings, conditioned attic roof decks, flat ceilings, sloped ceilings), must meet the requirements for ceilings, unless the ceiling is adiabatic. 13. All insulated vertical surfaces are considered walls (e.g., above and below grade exterior walls, knee walls) and must meet the air barrier

requirements for walls. The following exceptions apply: air barriers recommended, but not required, in adiabatic walls; and, in Climate Zones 4 through 8, an air barrier at the interior vertical surface of insulation is recommended but not required in basement walls or crawlspace walls. For the purpose of these exceptions, a basement or crawlspace is a space for which ≥ 40% of the total gross wall area is below-grade. 14. EPA highly recommends, but does not require, an air barrier at the interior vertical surface of floor insulation in Climate Zones 4-8.

15. Examples of supports necessary for permanent contact include staves for batt insulation or netting for blown-in insulation. Alternatively, supports are not required if batts fill the full depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving the required installation grade is the compression caused by the excess insulation

16. Alternatively, an air barrier is permitted to be installed at the exterior horizontal surface of the floor insulation if the insulation is installed in contact with this air barrier, the exterior vertical surfaces of the floor cavity are also insulated, and air barriers are included at the exterior vertical surfaces of this insulation

17. The minimum designated R-values must be achieved regardless of the trade-offs determined using an equivalent U-factor or UA alternative calculation. Note that if the minimum designated values are used, then higher insulation values may be needed elsewhere to meet Item 1.2. Also, note that these requirements can be met by using any available strategy, such as a raised-heel truss, alternate framing that provides adequate space, and / or high-density insulation.

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branches, is ≤ 10 ft. Duct leakage shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. Leakage limits shall be assessed on a persystem, rather than per-dwelling unit, basis. For balanced ventilation ducts that are not connected to space heating or cooling systems, a Rater is permitted to visually verify, in lieu of duct leakage testing, that all seams and connections are sealed with mastic or metal tape and all duct boots are sealed to floor, wall, or ceiling using caulk, foam, or mastic tape.

49. Note that compliance with Item 6.4.1 or 6.4.2 in conjunction with Section 4a of the National Rater Design Review Checklist automatically achieves Grade I total duct leakage per ANSI / RESNET / ACCA Std. 310. 50. Cabinets (e.g., kitchen, bath, multimedia) or ducts that connect duct boots to toe-kick registers are not required to be in place during the 'rough-in' test

51. Registers atop carpets are permitted to be removed and the face of the duct boot temporarily sealed during testing. In such cases, the Rater shall visually verify that the boot has been durably sealed to the subfloor (e.g., using duct mastic or caulk) to prevent leakage during normal

52. Testing of duct leakage to the outdoors can be waived in accordance with the 2nd or 3rd alternative of ANSI / RESNET / ICC Std. 301, Table 4.2.2 (1), footnote (w), Alternatively, testing of duct leakage to outdoors can be waived in accordance with Section 5.5.2 of ANSI / RESNET / ICC Std. 380 if total duct leakage, at rough-in or final, is ≤ 4 CFM25 per 100 sq. ft. of conditioned floor area or 40 CFM25, whichever is larger. Guidance to assist partners with these alternatives, including modeling inputs, is available at www.energystar.gov/newhomesguidance.

53. For the purpose of computing leakage allowance, exhaust fan flow shall be the lesser of the rated fan flow and at rough-in, 133% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan or at final, 143% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan. Duct leakage shall be tested at the design or average operating pressure and shall use the procedures in the RESNET Guidelines for Multifamily Energy Ratings, available at www.resnet.us/blog/resnet-adoptsguidelines-for-multifamily-energy-ratings/. Where testing at the design or average operating pressure is not feasible, testing at 50 Pa is permitted, however the following flow equation must be used to determine the leakage allowance at 50 Pa. $CFM_{50} = CFM_{design} / [P_{design}^{(0.65)} / 50^{(0.65)}]$

No less than 50% of the ductwork, based on total linear feet, shall be tested and must include ductwork other than the main trunks. Where portions of ductwork are tested, rather than entire risers, the percentage of leakage allowed is based upon the design airflow of the dwelling units that are exhausted in that portion. Where failures occur, the percentage of total linear feet required to be tested increases by 10%. Where aerosol-based sealant is used on some but not all risers, the ductwork selected for testing must be representative of all sealing strategies used. This test is not required of central exhaust systems serving clothes dryers

54. The dwelling-unit ventilation air flow and local exhaust air flows shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. In Item 7.2, the dwelling-unit ventilation rates required by ASHRAE 62.2-2010 can be calculated using the Multifamily Workbook or the following equation: 0.01 x Conditioned Floor Area + 7.5 x (number of bedrooms + 1). Where local codes do not permit dwelling-unit ventilation to exceed ASHRAE 62.2-2010 rates, Rater-measured ventilation rate is permitted to be 0-15 CFM less than rates required by ASHRAE 62.2-2010. 55. While common spaces are not under the scope of ANSI / RESNET / ICC Std. 380, the ventilation air flow and exhaust air flows in common

spaces shall be measured in accordance with the procedures in ANSI / RESNET / ICC Std. 380. The air flows may be measured by a Rater or a certified air-balancing contractor under the observation of a Rater. Where a system provides supply air that is a mix of return and outdoor air, and not 100% outdoor air, the outdoor air intake airflow shall be measured and compared to the total supply airflow to determine percentage of outdoor air supplied. This percentage shall be applied to airflow measured at supply registers to determine outdoor air provided for comparison to design airflow rates.

56. Dwelling-unit mechanical ventilation fans shall be rated for sound at no less than the airflow rate in Item 2.7 of the National HVAC Design Report. Fans exempted from this requirement include HVAC air handler fans, remote-mounted fans, and intermittent fans rated ≥ 400 CFM. To be considered for this exemption, a remote-mounted fan must be mounted outside the habitable spaces, bathrooms, toilets, and hallways and there shall be ≥ 4 ft. ductwork between the fan and intake grill. Per ASHRAE 62.2-2010, habitable spaces are intended for continual human occupancy; such space generally includes areas used for living, sleeping, dining, and cooking but does not generally include bathrooms, toilets, hallways, storage areas, closets, or utility rooms.

57. Bathroom fans with a rated flow rate ≥ 500 CFM are exempted from the requirement to be ENERGY STAR certified. 58. Ventilation air inlets that are only visible via rooftop access are exempted from Item 7.9 and the Rater shall mark "N/A". The outlet and inlet of balanced ventilation systems shall meet these spacing requirements unless manufacturer instructions indicate that a smaller distance may be used. However, if this occurs the manufacturer's instructions shall be collected for documentation purposes.

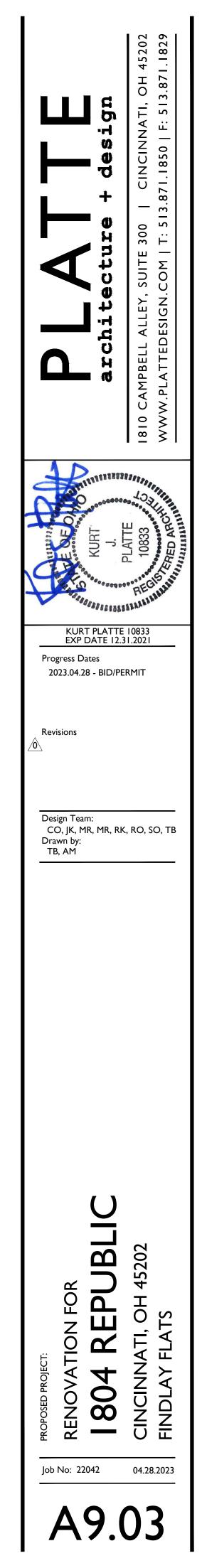
59. Without proper maintenance, ventilation air inlet screens often become filled with debris. Therefore, EPA recommends, but does not require, that these ventilation air inlets be located so as to facilitate access and regular service by the building owner.

60. Known contamination sources include, but are not limited to, stacks, vents, exhausts, and vehicles. 61. Continuous bathroom local mechanical exhaust fans shall be rated for sound at no less than the airflow rate in Item 8.2. Intermittent bathroom and both intermittent and continuous kitchen local mechanical exhaust fans are recommended, but not required, to be rated for sound at no less than the airflow rate in Items 8.1 and 8.2. Per ASHRAE 62.2-2010, an exhaust system is one or more fans that remove air from the building, causing outdoor air to enter by ventilation inlets or normal leakage paths through the building envelope (e.g., bath exhaust fans, range hoods, clothes dryers). Per ASHRAE 62.2-2010, a bathroom is any room containing a bathtub, shower, spa, or similar source of

62. An intermittent mechanical exhaust system, where provided, shall be designed to operate as needed by the occupant. Control devices shall not impede occupant control in intermittent systems

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LEED SPECIFICATIONS

National Rater Field Checklist Footnotes ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) 63. Kitchen volume shall be determined by drawing the smallest possible rectangle on the floor plan that encompasses all cabinets, pantries,

- islands, peninsulas, ranges / ovens, and the kitchen exhaust fan, and multiplying by the average ceiling height for this area. In addition, the continuous kitchen exhaust rate shall be \geq 25 CFM, per 2009 IRC Table M1507.3, regardless of the rate calculated using the kitchen volume. Cabinet volume shall be included in the kitchen volume. 64. Alternatively, the prescriptive duct sizing requirements in Table 5.3 of ASHRAE 62.2-2010 are permitted to be used for kitchen exhaust fans
- based upon the rated airflow of the fan at 0.25 IWC. If the rated airflow is unknown, ≥ 6 in. smooth duct shall be used, with a rectangular to round duct transition as needed. Guidance to assist partners with these alternatives is available at www.energystar.gov/newhomesguidance. As an alternative to Item 8.1, dwelling units are permitted to use a continuous kitchen exhaust rate of 25 CFM per 2009 IRC Table M1507.3, if they are either a) PHIUS+ or PHI certified, or b) provide both dwelling-unit ventilation and local mechanical kitchen exhaust using a balanced system, and have a Rater-verified whole-building infiltration rate ≤ 0.05 CFM50 per sq. ft. of Enclosure Area, and a Rater-verified dwelling unit compartmentalization rate ≤ 0.30 CFM50 per sq. ft. of Enclosure Area if multiple dwelling units are present in the building. 'Enclosure
- Area' is defined as the area of the surfaces that bound the volume being pressurized / depressurized during the test. 65. All intermittent kitchen exhaust fans must be capable of exhausting at least 100 CFM. In addition, if the fan is not part of a vented range hood or appliance-range hood combination (i.e., if the fan is not integrated with the range), then it must also be capable of exhausting ≥ 5 ACH, based on the kitchen volume.
- 66. Based upon, ASHRAE 62.2-2010, ducted mechanical systems are those that supply air to an occupiable space with a total amount of supply ductwork exceeding 10 ft. in length and through a thermal conditioning component, except for evaporative coolers. Systems that do not meet this definition are exempt from this requirement. While filters are recommended for mini-split systems, HRV's, and ERV's, these systems, ducted or not, typically do not have MERV-rated filters available for use and are, therefore, also exempted under this version of the requirements. HVAC filters located in the attic shall be considered accessible to the occupant or building owner if either 1) drop-down stairs provide access to attic and a permanently installed walkway has been provided between the attic access location and the filter or 2) the filter location enables arm-length access from a portable ladder without the need to step into the attic and the ceiling height where access is provided is ≤ 12 ft.
- 67. Sealing mechanisms comparable to a gasket are also permitted to be used. The filter media box (i.e., the component in the HVAC system that houses the filter) may be either site-fabricated by the installer or pre-fabricated by the manufacturer to meet this requirement. These requirements only apply when the filter is installed in a filter media box located in the HVAC system, not when the filter is installed flush with the return grill.
- 68. The pressure boundary is the primary enclosure boundary separating indoor and outdoor air. For example, a volume that has more leakage to outside than to conditioned space would be outside the pressure boundary.
- 69. Per the 2009 International Mechanical Code, a direct-vent appliance is one that is constructed and installed so that all air for combustion is derived from the outdoor atmosphere and all flue gases are discharged to the outside atmosphere; a mechanical draft system is a venting system designed to remove flue or vent gases by mechanical means consisting of an induced draft portion under non-positive static pressure or a forced draft portion under positive static pressure; and a natural draft system is a venting system designed to remove flue or vent gases under nonpositive static vent pressure entirely by natural draft.
- 70. Naturally drafted equipment is only allowed if located in a space outside the pressure boundary, where the envelope assemblies separating it from conditioned space are insulated and air-sealed.
- 71. Where water heater efficiency is rated in Uniform Energy Factor (UEF) rather than Energy Factor (EF), the EF may be calculated from the Uniform Energy Factor (UEF) using the RESNET EF Calculator 2017. The calculated EF must meet the efficiency levels specified in the ENERGY STAR Multifamily Reference Design.
- 72. In accordance with Section 7.4.3 of ASHRAE 90.1-2016, the following in-unit DHW piping requires insulation: a. Recirculating system piping, including the supply and return piping of a circulating tank type water heater. b. The first 8 feet of outlet piping of a constant-temperature nonrecirculating storage system.
 - c. The first 8 feet of branch piping connecting to recirculated, heat-traced, or impedance heated piping. d. The inlet piping between the storage tank and a heat trap in a nonrecirculating storage system.
 - e. Piping that is externally heated (such as heat trace or impedance heating).
- 73. To measure the delivery temperature, turn the hot water at a fixture completely on and place a digital thermometer in the stream of water. Observe the thermometer and when no additional rise in temperature occurs after 10 seconds, confirm this temperature does not exceed 125°F.
- 74. Senior housing projects can use the space-by-space allowances for 'facilities for the visually impaired' in ASHRAE 90.1-2016 Appendix G Table G3.7 for spaces used primarily by building residents. For example, 1.15 W/SF lighting power allowance may be used for the corridors in the baseline. To qualify for the increased allowance, the project must be designed to comply with the light levels in ANSI / IES RP-28 and must provide housing for seniors and/or people with special visual needs. Prescriptive Path dwelling unit overall in-unit lighting power density is permitted to be \leq 1.3 W/SF, using 1.65 W/SF where lighting is not installed.

National Rater Field Checklist Footnotes

ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) 75. Lighting power density values from ASHRAE 90.1-2007 Section 9 for Space-by-Space Method for typical common spaces in multifamily properties are shown in the table below. Projects following the Building Area method, the lighting power density is 0.7 W/ft². For spaces not

ASHRAE Space Type	Lighting Power Densities (W/ft ²)	ASHRAE Space Type	Lighting Power Densities (W/ft ²)	ASHRAE Space Type	Lighting Power Densities (W/ft ²)
Lobby / Elevator	1.3	Corridor / Transition	0.5	Office	1.1
Active Storage (e.g., trash chute / room, janitor closet)	0.8	Stairs - Active	0.6	Lounge / Recreation / Community Room / Computer Room	1.2
Inactive Storage (e.g., tenant storage)	0.3	Restroom	0.9	Electrical / Mechanical	1.5
Exercise Area / Room	0.9	Laundry Room	1.3	Workshop	1.9

76. This requirement applies to exterior lighting fixtures that are attached to the building, but does not apply to landscape or parking lot lighting

77. For Prescriptive Path dwelling units, ENERGY STAR certified fixtures or light bulbs are required; however, the Rater is only responsible for verifying that the installed lighting meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std. 301. For locations outside the dwelling unit, as an alternative to ENERGY STAR certified fixtures or light bulbs, lighting that meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std.301 is permitted.

78. Where an appliance type is not eligible for ENERGY STAR certification, (e.g., commercial dryers) the appliance is exempt from this requirement. Where a bathroom faucet or aerator is not eligible for WaterSense certification, (e.g., public use lavatory faucets) the fixture is exempt from this requirement.

79. Strategies include: an agreement with the utility companies to provide the aggregated building-level data, in a spreadsheet format or directly through Portfolio Manager; OR evidence that securing signed utility data release forms will be a mandatory component of all lease agreements; OR installation of a building-level energy monitor, data acquisition system, or utility-owned energy meter. If an energy monitor is installed, the builder shall provide the building operator with the manufacturer's documentation and operations manual. EPA recommends, but does not require, that one of these strategies also be implemented in buildings 25,000-49,999 ft².



National Rater Field Checklist Footnotes

ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01)

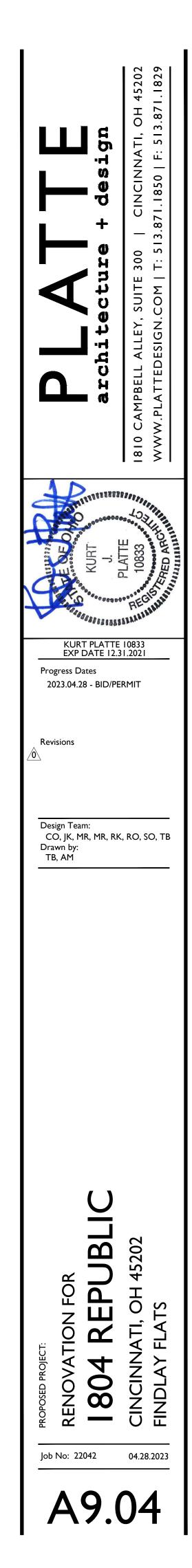
Equipment Type	Minimum Efficiency
Room AC (window, through-wall, ductless mini-splits)	ENERGY STAR certified
Air conditioners, air cooled (<13 KBtu/h)	13 SEER
Air conditioners, air cooled (≥13 and <65 KBtu/h)	See Reference Design
Air conditioners, air cooled (≥65 and <240 KBtu/h)	11.5 EER/12.0 IEER
Air conditioners, air cooled (≥240 and < 760 KBtu/h)	10.0 EER/10.5 IEER
Electric resistance space heating	 Not permitted in any dwelling unit using the Prescriptive Path Electric resistance heating specified in common spaces has a total heating capacity ≤ 12 kBtu/h (3.5 kW) per enclosed space and has automatic thermostatic controls
Warm-Air Furnace (<225 KBtu/h, common spaces)	78% AFUE or 80% Et
Warm-Air Furnace (<225 KBtu/h, dwelling units)	See Reference Design
Warm-Air Furnace (≥225 KBtu/h)	80% Et (gas) or 81% Et (oil)
Packaged Terminal Air Conditioner (PTAC)	13.8 – (0.300 X Cap/1000) EER
Packaged Terminal Heat Pump (PTHP)	<u>Cooling</u> : 14.0– (0.3 X Cap/1000) EER <u>Heating</u> : 3.7– (0.052 X Cap/1000) CC
Air cooled heat pump (≥13 and <65 KBtu/h)	See Reference Design
Air cooled heat pump (≥65 and <240 KBtu/h)	<u>Cooling</u> : 11.1 EER/11.6 IEER <u>Heating</u> : 3.3 COP (@47°F DB)
Air cooled heat pump (≥240 KBtu/h)	Cooling: 9.6 EER/9.6 IEER Heating: 3.2 COP (@47°F DB)
Water-source heat pump (<135 KBtu/h)	Cooling: 14.0 EER(86°F entering water) Heating: 4.2 COP(68°F entering water
Boilers, hot water (<300,000 Btu/h)	See Reference Design
Boilers, hot water (≥300,000 Btu/h)	86% E_t (89% E_t if using heat pumps)
VRF Air Conditioners and Heat Pumps	See Tables 6.8.1I and 6.8.1J of ASHRAE 90.1-2010
Air-cooled chillers with or without condenser	10.0 EER / 12.5 IPLV
Water-cooled chiller, positive displacement (<75 tons)	0.780 kW/ton (Full load) / 0.630 kW/ton (IPLV)
Water-cooled chiller, positive displacement (75-150 tons)	0.775 kW/ton (Full load) / 0.615 kW/ton (IPLV)
Water-cooled chiller, positive displacement (150-300tons)	0.680 kW/ton (Full load) / 0.580 kW/ton (IPLV)
Water-cooled chiller, positive displacement (>300 tons)	0.620 kW/ton (Full load) / 0.540 kW/ton (IPLV)
Water-cooled, centrifugal (<300 tons)	0.634 kW/ton (Full load) / 0.596 kW/ton (IPLV)
Water-cooled, centrifugal (≥300 and <600 tons)	0.576 kW/ton (Full load) / 0.549 kW/ton (IPLV)
Water-cooled, centrifugal (≥600 tons)	0.570 kW/ton (Full load) / 0.539 kW/ton (IPLV)
Air-cooled absorption single effect chiller	0.6 COP
Water-cooled absorption single effect chiller	0.7 COP
Absorption double effect indirect-fired chiller	1.0 COP (Full load) / 1.05 COP (IPLV)
Absorption double effect direct-fired chiller	1.0 COP (Full load) / 1.00 COP (IPLV)
Open-loop propeller or axial fan cooling towers [*]	>40 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering ai
Closed-loop propeller or axial fan cooling towers*	>15 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering a
Open-loop centrifugal fan cooling towers*	>22 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering air
Closed-loop centrifugal fan cooling towers [*]	>8 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering ai

*Cooling tower fan motors must be equipped with VFD controlled by a temperature sensor on the condenser water supply pipe.

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LEED SPECIFICATIONS



GENERAL STRUCTURAL NOTES

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

GOVERNING CODE

OHIO BUILDING CODE - 2017, BASED ON 2015 IBC

CLASSIFICATION OF THE BUILDING STRUCTURE:

RISK CATEGORY II, TABLE 1604.5

- DESIGN LOADS
- 1. ROOF LOAD:
- A. MINIMUM LIVE LOAD OR SNOW LOAD: 20 PSF* B. DEAD LOAD = 20 PSF IN ADDITION TO STRUCTURE SELF WEIGHT

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

- 2. SNOW LOAD:
- A. GROUND SNOW LOAD, $P_g = 20 PSF$. B. FLAT ROOF SNOW LOAD, Pf = 14 PSF MODIFIED BY APPLICABLE
- BUILDING COEFFICIENTS.
- C. MINIMUM ROOF SNOW LOAD, $P_m = 20$ PSF. D. SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$
- E. SNOW EXPOSURE FACTOR, $C_e = 1.0$
- THERMAL FACTOR, $C_t = 1.0$

G. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

- 3. FLOOR LOAD:
- A. LIVE LOAD: 100 PSF
- B. LIVE LOAD = 40 PSF AT RESIDENTIAL C. DEAD LOAD ALLOWANCE: 20 PSF IN ADDITION TO STRUCTURE SELF WEIGHT
- 4. WIND LOAD:
- A. MAIN WIND FORCE RESISTING SYSTEM: 115 MPH PER ASCE 7-10 (3-SECOND GUST - LOAD AND RESISTANCE FACTOR DESIGN).
- B. WIND EXPOSURE: B C. BASIC WIND VELOCITY PRESSURE, qh= 19.21 PSF (LRFD), 11.526 PSF
- D. INTERNAL GUST PRESSURE COEFFICIENT, GCp = 0.18 (ENCLOSED BUILDING).
- 5. SPECIAL LOADS:
- A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD.
- B. HANDRAILS: 200 POUND CONCENTRATED LOAD AT ANY POINT, IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
- C. GUARDRAILS:
- a. TOP RAIL: 200 POUNDS CONCENTRATED AT ANY POINT IN ANY
- DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION. b. IN-FILL AREAS: 50 POUNDS APPLIED OVER A 1 SQUARE FOOT AREA.

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17, SECTION 1704.1, OF THE REFERENCED BUILDING CODE, SPECIAL INSPECTIONS ARE NOT NECESSARY FOR THE PROPOSED BUILDING CONSTRUCTION. STRUCTURAL CONSTRUCTION IN THIS BUILDING IS CONSIDERED MINOR NATURE AND IS ASSUMED TO BE INSPECTED BY THE BUILDING INSPECTOR. SPECIAL INSPECTIONS CAN BE ADDED TO THIS PROJECT AT THE REQUEST OF THE BUILDING DEPARTMENT. BUILDING DEPARTMENT, PLEASE IDENTIFY SPECIFIC MATERIALS THAT WILL **REQUIRE SPECIAL INSPECTIONS.**

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

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

Submittal/Shop Drawing	Submittal	Calculations	PE/SE Seal & Signature
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a
Structural Steel	For Review	N/a	N/a
Miscellaneous Steel	For Review	N/a	N/a
			·

- For Review denotes the contractor must submit to the design team for review. The contractor shall not fabricate or install until all design team comments have been resolved in writing.

- For Record denotes the contractor must submit to the design team for record. The contractor's engineer is responsible for all loading and coordination of loads to be resisted by the building's structural elements. Any load resisted by the building's structural elements must be approved by the EOR. N/a denotes not applicable.

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CONSTRUCTION AND SAFETY

- DESIGNED UNIT.

- CONDITION.

MISCELLANEOUS STRUCTURAL NOTES

- OTHERWISE.

FOUNDATIONS

1. SOIL CONDITIONS:

- AND SUPPORT.
- 5. COMPACTION:
- CONSULTANT.

CONCRETE

REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.

A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI. B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

1. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.

3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

4. THE CONTRACTOR SHALL ONLY USE STRUCTURAL PLANS ISSUED AS "FOR CONSTRUCTION" OR ISSUES THEREAFTER. PRIOR ISSUES SHALL ONLY BE USED FOR PERMITTING OR BIDDING PURPOSES.

5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF THE

6. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

7. THE CONTRACTOR SHALL VERIFY ALL INFORMATION IN THESE DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE OWNER AND ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEPARTURES FROM THESE PLANS NOT APPROVED IN WRITING BY THE OWNER AND ENGINEER.

8. THE CONTRACTOR SHALL NOT REMOVE ANY ELEMENTS WHICH MAY CAUSE THE STRUCTURE TO BECOME UNSTABLE, OR THAT WILL POSE A RISK TO PERSONS OR PROPERTY, EVEN IF INDICATED IN PLANS. IF ANY ELEMENTS BECOME UNSTABLE, CONTRACTOR IS TO STABILIZE AND SHALL INFORM THE ENGINEER/OWNER IMMEDIATELY.

9. IT IS UP TO THE CONTRACTOR TO CONTINUALLY EVALUATE THE STRUCTURAL STABILITY OF THE BUILDING AND THE INTEGRITY OF ELEMENTS BOTH STRUCTURAL AND NON-STRUCTURAL THAT ARE SHOWN TO REMAIN. IF THE CONTRACTOR DETERMINES THAT SOME OF THESE ELEMENTS SHOULD BE REMOVED, HE/SHE MUST FIRST RECEIVE PERMISSION FROM THE ENGINEER/ OWNER, OR MAY BE FINANCIALLY RESPONSIBLE FOR THE REPLACEMENT OF THESE ELEMENTS.

THESE STRUCTURAL DRAWINGS DEPICT A STRUCTURAL SYSTEM AND THE MAJOR COMPONENTS OF THAT SYSTEM, MINOR ITEMS, INCLUDING BUT NOT LIMITED TO, POURSTOPS, DECK SUPPORT ANGLES, FRAMES AT FLOOR AND ROOF DECK OPENINGS, CFS AT ARCHITECTURAL FEATURES, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AS NEEDED TO PROVIDE A COMPLETE SYSTEM.

2. WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS UNLESS NOTED

3. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS. CONTRACTORS. DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC. BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND.

A. PER THE CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS.

2. THE BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.

3. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF BELOW STRIP FOOTINGS AND 1500 PSF BELOW ISOLATED COLUMN FOOTINGS.

4. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION

A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL

B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.

6. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.

CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING".

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

Application	f ^r c@ 28 days (psi)	Air Content ¹	Max w/c ratio²	Max Agg. Size ¹ (in)	F Class	S Class	W Class	C Class
Footings	3000	N/a	0.55	3/4	F0	S0	W0	C0
Interior Floor Slab on Grade	4000	N/a	0.5	3/4	F0	S0	W0	C0
Exterior Flatwork (Plain Concrete)	4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1

8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.

- 9. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- 10. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.

EXPANSION AND EPOXY ADHESIVE ANCHORS

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

MASONRY WALL REPAIR

- 1. EXTERIOR MASONRY AND STONE IS TO BE REPAIRED, REPLACED, AND CLEANED AS NEEDED. CONTRACTOR SHALL PERFORM AN OBSERVATION OF ALL WALLS AND EXISTING LINTELS TO DETERMINE DAMAGED AREAS THAT REQUIRE REPAIR.
- 2. REPAIR DAMAGED JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED, OR MISSING. CUT OUT JOINTS TO A DEPTH OF 2X THE WIDTH OF THE JOINT OR UNTIL SOUND MORTAR. REMOVE DUST AND LOOSE MATERIAL BY HAND BRUSHING. MORTAR TO MATCH EXISTING IN COMPOSITION, COLOR, TOOLING, PROFILE AND HARDNESS.
- 3. REPLACE MISSING, ERODED, SPALLED OR CRACKED MASONRY UNITS. CUT OUT UNITS, INCLUDING ENTIRE MORTAR JOINT AROUND MASONRY UNIT. REMOVE UNITS BY HAND USING CARE SO AS NOT TO DAMAGE ADJACENT MASONRY. TURN EXISTING BRICKS AROUND AND/OR USE SALVAGED BRICK IF POSSIBLE. BUILD-IN NEW MASONRY AND JOINTS TO MATCH EXISTING. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE INSTALL ANY ANCHORS, FLASHING, OR REINFORCEMENTS AS NECESSARY, ALL NEW WORK SHALL MATCH THAT OF THE SURROUNDING MASONRY.
- 4. REMOVE CRACKED, DAMAGED AND SEVERELY SPALLED STONE LINTELS AND SILLS WITH CARE IN A MANNER TO PREVENT DAMAGE TO ADJACENT REMAINING MATERIALS. BUILD-IN NEW LINTELS AND SILLS. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE. INSTALL ANY ANCHORAGES, FLASHINGS, OR REINFORCEMENTS AS NECESSARY. WHERE APPLICABLE, NEW LINTELS AND SILLS TO BE PRECAST CONCRETE TO MATCH EXISTING IN COLOR AND TEXTURE. THE CONTRACTOR SHALL PROVIDE SAMPLES FOR APPROVAL PRIOR TO ORDERING MATERIAL. ALL STONE REPLACEMENT WORK WILL BE DONE WITHOUT DAMAGE, TO MATCH THE EXISTING HISTORIC STONE AND MASONRY.
- 5. NEW MASONRY CONSTRUCTION FOR WALLS NEEDING TO BE ENTIRELY REBUILT SHALL BE CONSISTED OF AN EXTERIOR WYTHE OF SIMILAR BRICK MATERIAL OF THE ERA. COMPOSITE CONSTRUCTION WITH AN INNER 4" WYTHE OR 8" WYTHE OF CONCRETE MASONRY, TO MATCH EXISTING WALL WIDTH. INTER-CONNECT W/ 9 GAUGE LADDER TYPE JOINT REINFORCING (GALVANIZED) @ 8" O.C. GROUT ALL COLLAR JOINTS SOLID WITH NO VOIDS.
- 6. SPIRA-LOK TIES ARE MANUFACTURED BY HOHMANN & BARNARD SHALL BE 8MM, 304 STAINLESS STEEL. INSTALL IN MORTAR JOINTS, LENGTH AS NEEDED SO END OF TIE WITH WITHIN 1" OF EXTERIOR AND INTERIOR FACE OF MASONRY. WHERE TIE IS INSTALLED INTO INTERIOR WOOD FRAMING, PENETRATE WOOD A MINIMUM OF 3". ALTERNATES WILL BE CONSIDERED UPON SUBMITTING MANUFACTURER INFORMATION.

WOOD

- 1. MATERIALS:
- A. FRAMING LUMBER:
- DRIED

- A. 48/24 APA RATED TONGUE AND GROOVE SUBFLOOR EXPOSURE 1. B. 32/16 APA RATED ROOF SHEATHING EXPOSURE 1. C. 24/16 APA RATED STRUCTURAL WALL SHEATHING EXPOSURE 1 D. ALL SHEATHING TO BE NAILED WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS
- UNLESS NOTED OTHERWISE. E. ROOF AND WALL SHEATHING SHALL BE SPACED A MINIMUM 1/8" AT PANEL EDGES AND ENDS OF SHEETS. USE APPROPRIATE PLYWOOD CLIPS AS RECOMMENDED BY THE APA.
- F. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 3. NAIL SIZES AS CALLED OUT IN THE STRUCTURAL DRAWINGS AND FOR SIMPSON CONNECTORS ARE LISTED BELOW. NAIL GUN NAILS SHALL MEET DIAMETER AND LENGTH OF NAILS LISTED BELOW, OR ELSE NAILS SHALL BE DRIVEN WITH A HAMMER.
- A. 6d NAILS ARE 0.120"Ø x 1¾" LONG (MIN 3/8" HEAD) B. 8d NAILS ARE 0.131"Ø x 21/2" LONG
- D. 16d NAILS ARE 0.162"Ø x 31/2" LONG 4. SIMPSON HANGERS:
- A. ALWAYS USE THE NAIL OR FASTENER AS SPECIFIED BY SIMPSON, INCLUDING THE CORRECT DIAMETER AND LENGTH. B. WHEN FASTENING TO A SINGLE PLY 11/2" OR 13/4" MEMBER, 11/2" FLANGE NAILS ARE ACCEPTABLE. USE FULL LENGTH NAILS FOR DIAGONAL NAILS OF DOUBLE SHEAR HANGERS.
- PERFORMANCE SPECIFICATION AFG-01 DEVELOPED BY APA.
- SHEATHING AND SUBFLOORING.
- INSTRUCTION MANUAL.

a. 2x8 AND LARGER: NO.1 GRADE OR BETTER SOUTHERN PINE KILN

b. 2x4: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED. c. 2x6: NO.2 GRADE OR BETTER SPRUCE PINE FIR KILN DRIED. d. ACQ-C (ALT CA-B OR SBX-DOT) PRESSURE TREAT PIECES IN CONTACT WITH FOUNDATION OR EXPOSED TO WEATHER.

2. SHEATHING AND SUBFLOORING:

C. 10d NAILS ARE 0.148"Ø x 3" LONG

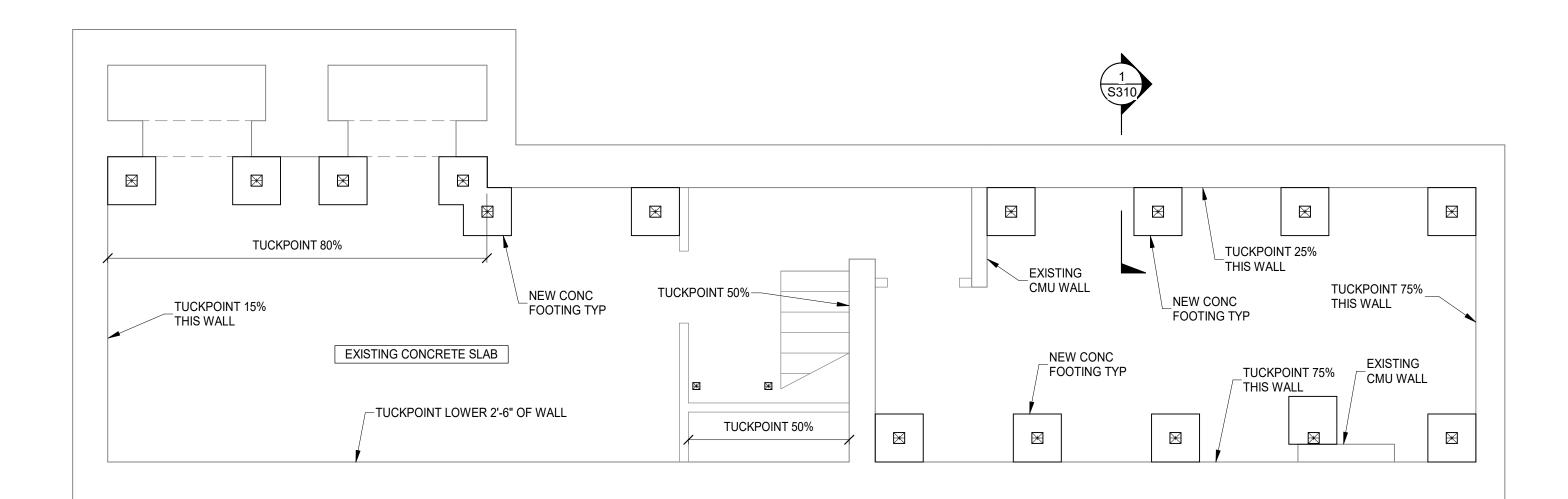
- 5. ADHESIVE FOR PLYWOOD SUBFLOORING SHALL CONFORM TO
- 6. UNLESS NOTED OTHERWISE, CONNECTORS SHALL BE MADE PER TABLE 2304.10.1, "RECOMMENDED FASTENING SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA RATED
- 7. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 8. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND



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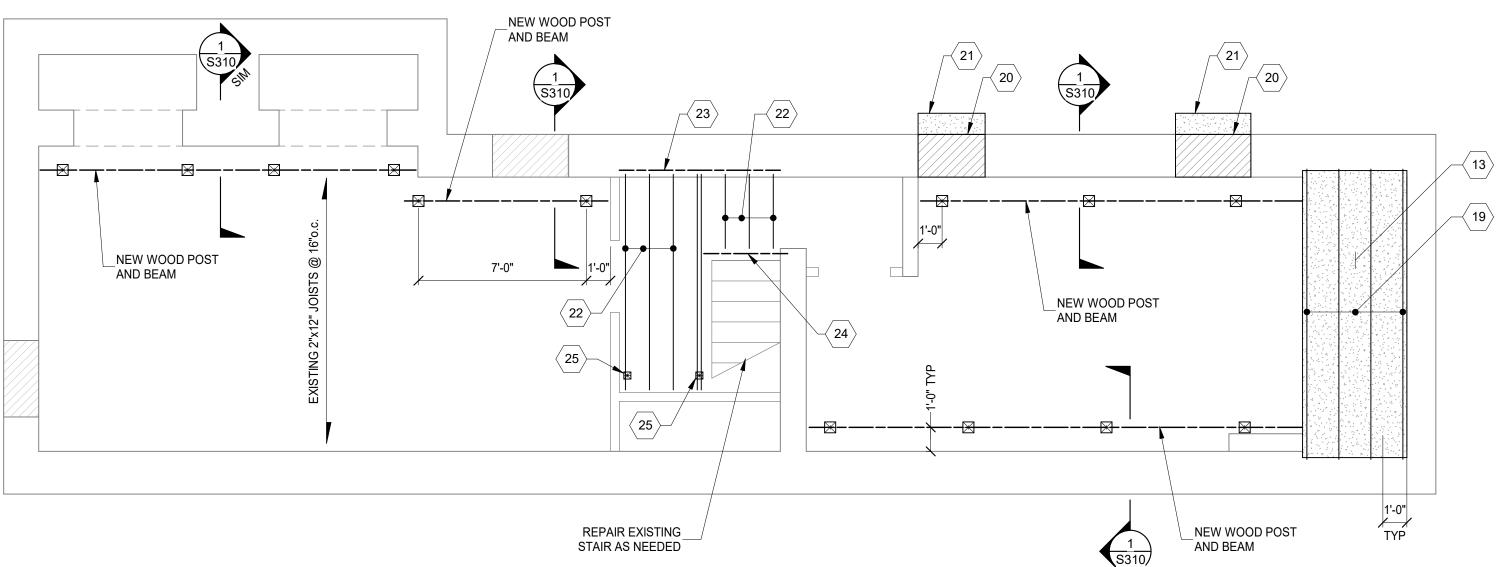
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FOUNDATION PLAN

SCALE 1/4" = 1'-0"



STAIR AS NEEDED

1ST FLOOR FRAMING PLAN SCALE 1/4" = 1'-0"

804 REPUBLIC INNATI, OH 453

REPUBLIC 804



NORTH

PROJECT KEYNOTES:

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- $\langle 17 \rangle$ 2x4 wall for condenser platform support.
- \langle 18 \rangle PROVIDE NEW LINTELS AT NEW EXTERIOR OPENING PER TYPICAL DETAIL.
- $\langle 19 \rangle$ REMOVE EXISTING JOISTS AND PROVIDE NEW PT 2x12 @ 16"o.c.
- $\langle 20 \rangle$ WELL OR STAIR, AND FILL WITH CDF. TOP WITH 4" CONCRETE SIDEWALK SLAB.
- 21 REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIG/ WITH CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.
- 22 NEW 2x12 PT JOISTS AT 12"o.c. HANG WITH LUS210 HANGERS.
- $\langle 23 \rangle$ NEW CONT 2x12 PT LEDGER BEARING ON STONE WALL.
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- WITH ABA44Z POST BASE TO EXISTING SLAB. 26 NEW (2) 2x12 HEADER.

PLAN NO

EXISTING FIRE ESCAPE. EVALUATION IS NOT PART OF SCOPE. INSPECTION AND REPAIR DOCUMENTS SHALL BE 1 PREPARTED BY A DESIGN PROFESSIONAL HIRED BY OWNER, SUBMITTED UNDER THE CITY OF CINCINNATI FIRE

NEW 1-3/4"x9-1/4" x 16' LONG LVL SISTER. BEAR ON SOUTH MASONRY WALL. FASTEN SISTER w/ (3) 1/4"x3-1/2" SWS

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INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND MASONRY ABOVE. REMOVE EX WOOD LINTELS. CUT EXISTING JOISTS BACK AND BEAR JOISTS ON NEW BEAM. REMOVED DEBREES FROM EXTERIOR WINDOW

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NEW 4x4 WOOD POST. MITER BEARING AT CORNER, 45 DEGREES AND BEAR ON POST. CONNECT TO CONCRETE

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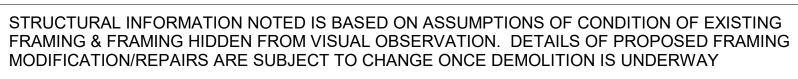
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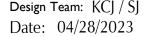
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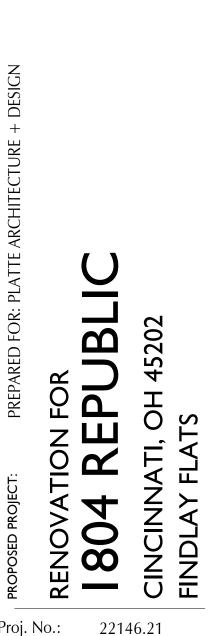
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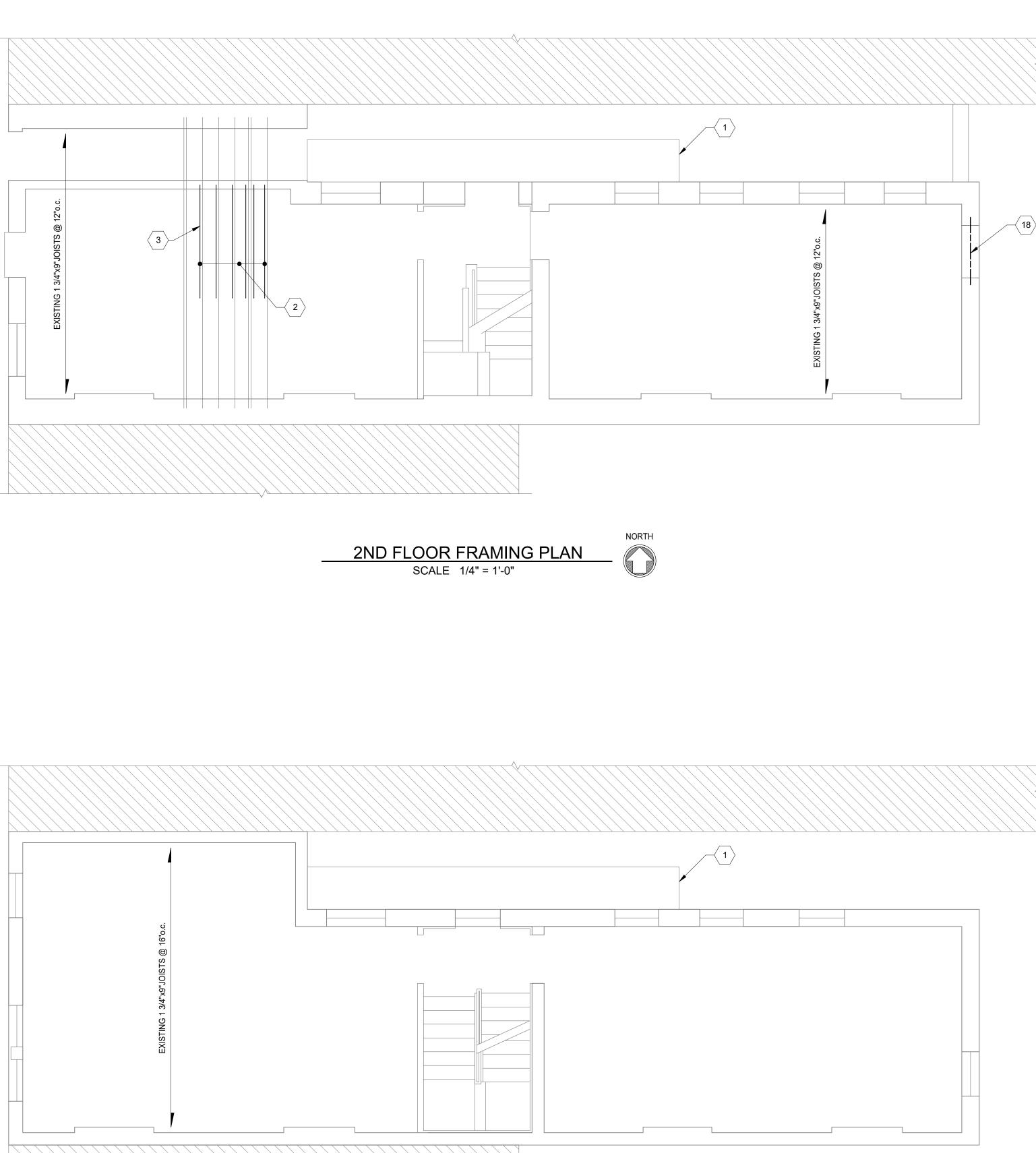


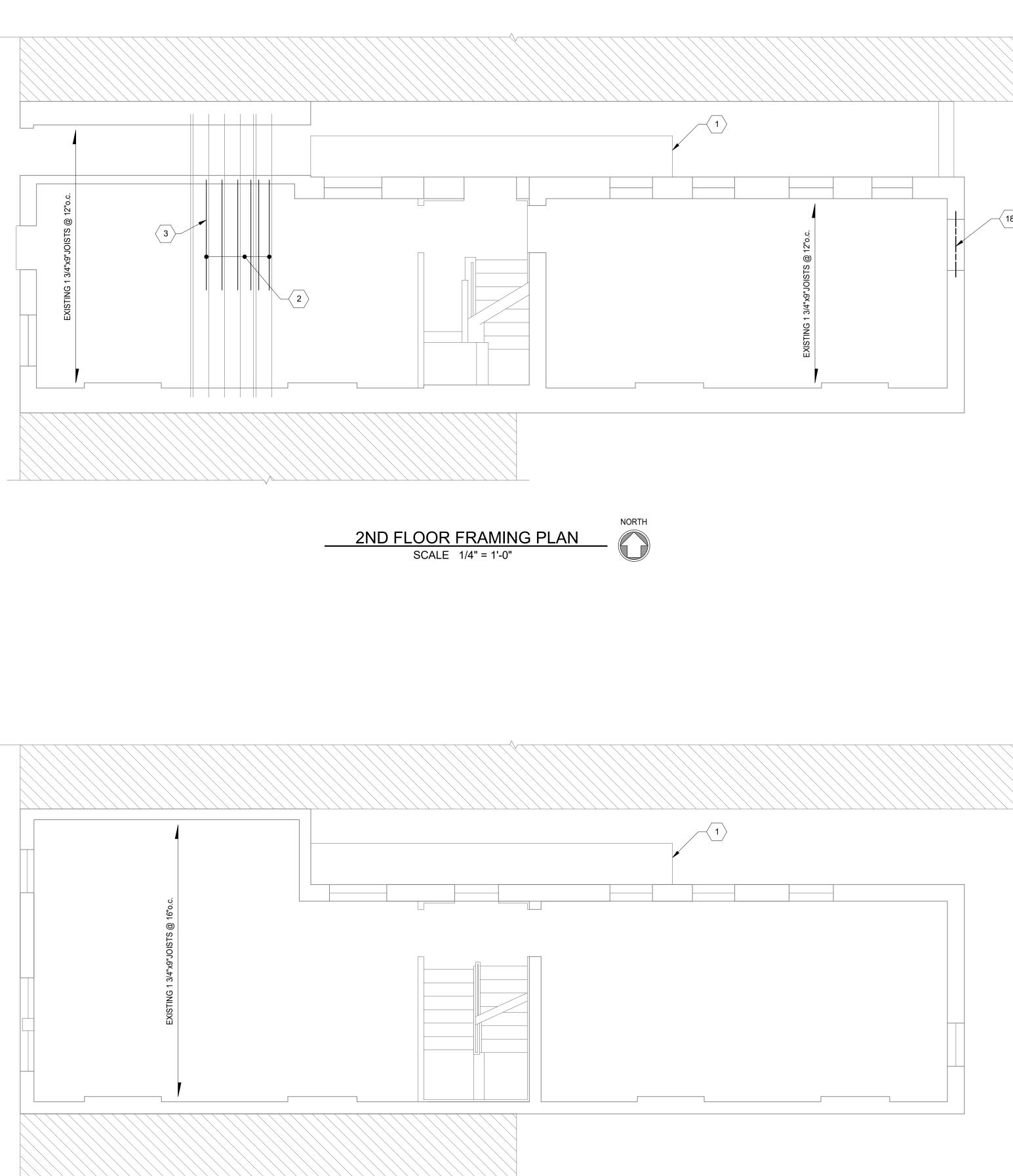


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3RD FLOOR FRAMING PLAN SCALE 1/4" = 1'-0"

NORTH

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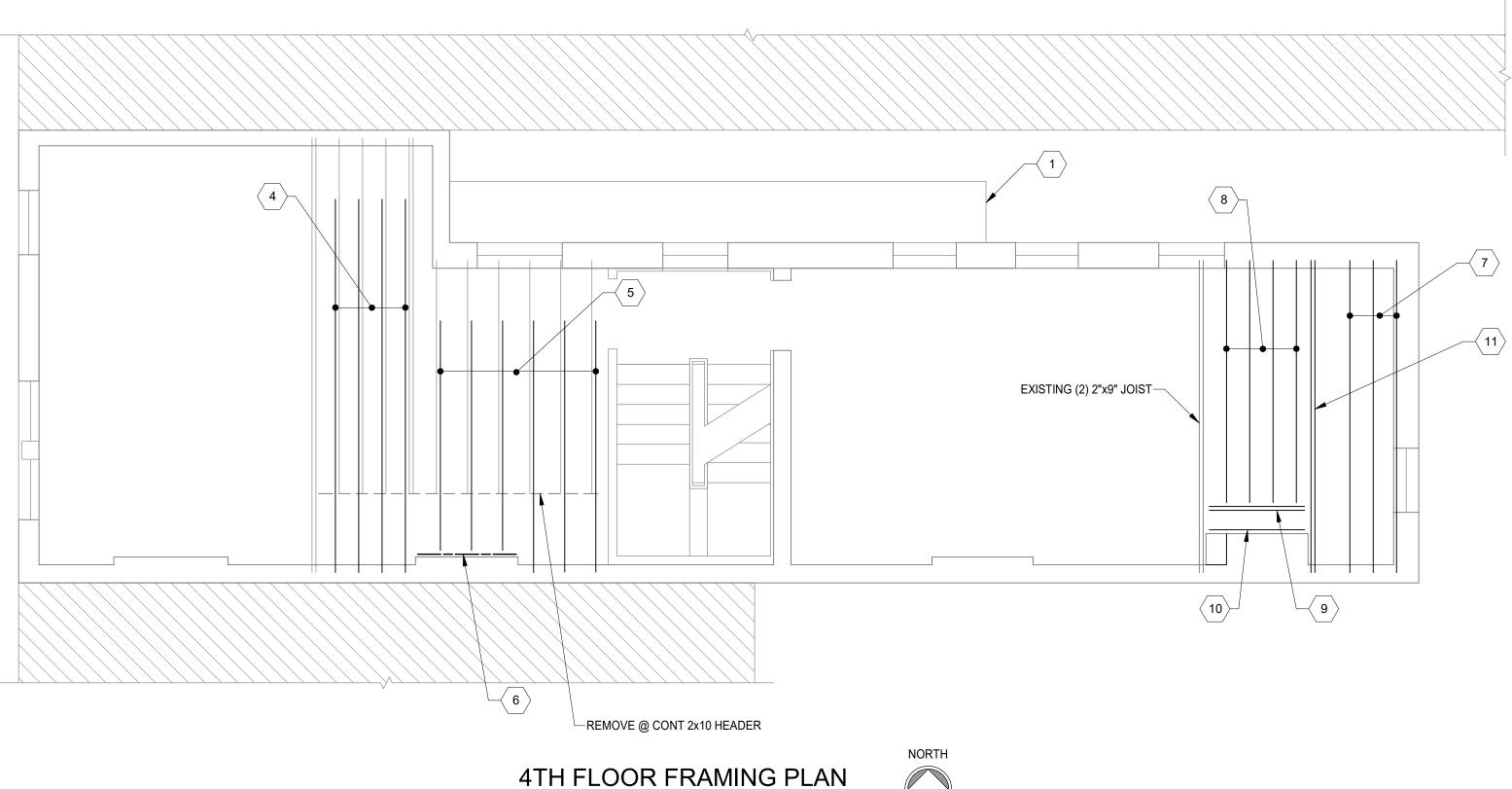
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#	ские инсорравтет исрепнах ам инстримамт ос раоссессими серинсе из тыс рарарето об алумитос орона билистерствии амир ис инстр
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Design Team: KCJ / SJ

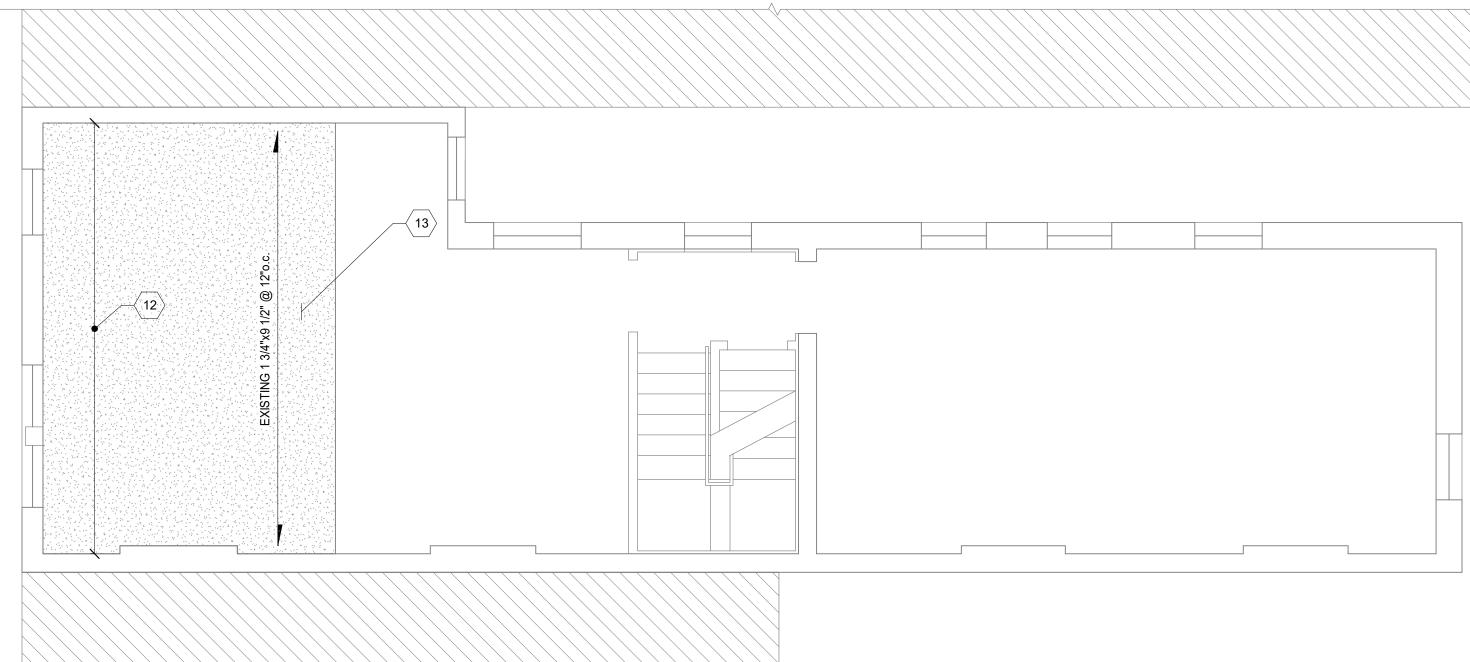
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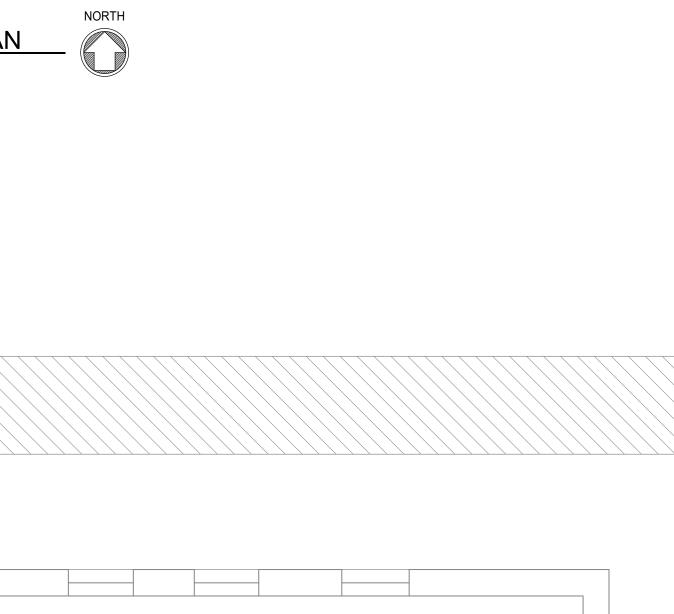
SCALE 1/4" = 1'-0"



ATTIC FLOOR FRAMING PLAN SCALE 1/4" = 1'-0"

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REPUBLIC 804



PROJECT KEYNOTES:

- ESCAPE INSPECTION PROGRAM, IF NOT PREVIOUSLY DONE.
- \langle 2 \rangle EX SISTERS. SHIM BEARING AT WALL. RE-FASTEN PER THE TYPICAL END SISTER DETAIL.
- $\overline{\langle 3 \rangle}$ NEW END SISTER PER TYPICAL DETAIL.
- 4 EACH END AND PER PLAN NOTE.
- 6
- CONTINUOUS SISTER w/ SIMPSON L70 ANGLE. 7
- NEEDED.
- 8
- 9 NEW (2) 2x10 HEADER w/ LUS28-2 HANGERS EACH END.
- $\langle 10 \rangle$ NEW 2x10 JOIST w/ L70 ANGLE EACH END.

- \sim VERTICAL AND HORIZONTAL SPACING, FULL WALL THROUGH ALL WYTHES.
- $\langle 13 \rangle$ REMOVE EXISTING SHEATHING AND PROVIDE NEW APA RATED SHEATHING.
- $\langle 14 \rangle$
- $\langle 15 \rangle$ NEW (2) 2x8 JOIST EACH SIDE OF OPENING, BEAR ON MASONRY WALL EACH END.
- **(16)** NEW (2) 2x8 HEADER w/ LUS28-2 HANGERS EACH END. CUT EX JOISTS AND CONNECT TO HEADER w/ HU26 HANGERS.
- $\langle 17 \rangle$ 2x4 wall for condenser platform support.
- \langle 18 \rangle PROVIDE NEW LINTELS AT NEW EXTERIOR OPENING PER TYPICAL DETAIL.
- $\langle 19 \rangle$ REMOVE EXISTING JOISTS AND PROVIDE NEW PT 2x12 @ 16"o.c.
- $\langle 20 \rangle$ WELL OR STAIR, AND FILL WITH CDF. TOP WITH 4" CONCRETE SIDEWALK SLAB.
- 21 REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGA WITH CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.
- $\langle 22 \rangle$ NEW 2x12 PT JOISTS AT 12"0.C. HANG WITH LUS210 HANGERS.
- $\langle 23 \rangle$ NEW CONT 2x12 PT LEDGER BEARING ON STONE WALL.
- \langle 24 \rangle NEW (2) 2x12 PT HEADER WITH HHUS210-2 HAMGER AND BEAR ON WALL
- 25 WITH ABA44Z POST BASE TO EXISTING SLAB.
- 26 NEW (2) 2x12 HEADER.

PLAN NO



NORTH

EXISTING FIRE ESCAPE. EVALUATION IS NOT PART OF SCOPE. INSPECTION AND REPAIR DOCUMENTS SHALL BE 1 EXISTING FIRE ESCAPE. EVALUATION IS NOT PART OF SCOPE. INSPECTION AND REPAIR DOCUMENTS SHALL BE PREPARTED BY A DESIGN PROFESSIONAL HIRED BY OWNER, SUBMITTED UNDER THE CITY OF CINCINNATI FIRE ESCAPE INSPECTION PROCEDUM IS NOT PREVIOUSLY DONE

NEW 1-3/4"x9-1/4" x 16' LONG LVL SISTER. BEAR ON SOUTH MASONRY WALL. FASTEN SISTER w/ (3) 1/4"x3-1/2" SWS

NEW 2x10x10' LONG LVL SISTER. AT SOUTH WALL, BEAR ON MASONRY OR HANG TO LEDGER w/ LUS28 HANGER WHERE APPLICABLE. FASTEN SISTER w/ (3) 1/4"x3-1/2" SWS EACH END AND PER PLAN NOTE. NEW 2x10 LEDGER w/ 1/2" SLEEVE ANGLE @ 12" o.c. STAGGERED. CONNECT EACH END OF LEDGER TO NEW

NEW 2x10 JOISTS @ 12" o.c., POCKET INTO WALL UTILIZING EXISTING JOIST POCKETS. RE-CONSTRUCT POCKETS AS

NEW 2x10 JOISTS @ 12" o.c. POCKET INTO WALL UTILIZING EXISTING JOIST POCKETS. RE-CONSTRUCT POCKETS AS NEEDED. HANG TO HEADER w/ LUS28 HANGERS.

(11) NEW (2) 2x10 BEAM POCKET INTO WALL UTILIZING EXISTING JOIST POCKETS. RE-CONSTRUCT POCKETS AS NEEDED. APPROXIMATELY 30% OF INTERIOR WALL MASONRY IS SOFT OR DETERIORATING. REPLACE ALL BRICK THAT IS MISSING, SOFT, OR DETERIORATED BY MORE THAN ¾". PROVIDE HOHMANN & BARNARD SPIRALOK TIES @ 24" o.c.

REMOVE EXISTING BEAM. PROVIDE NEW 2x6 STUD WALL w/ 2x6 STUDS AT 16" o.c. SHEATH A MINIMUM OF (1) SIDE WITH DRYWALL. (1) 3' DOOR OPENING w/ (2) 2x8 HEADER, (1) BEARING STUD AND (1) FULL HEIGHT STUD EACH END.

INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND MASONRY ABOVE. REMOVE EX WOOD LINTELS. CUT EXISTING JOISTS BACK AND BEAR JOISTS ON NEW BEAM. REMOVED DEBREES FROM EXTERIOR WINDOW

REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE LOOSE SOIL AND FILL

NEW 4x4 WOOD POST. MITER BEARING AT CORNER, 45 DEGREES AND BEAR ON POST. CONNECT TO CONCRETE

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1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.

2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED, SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE.

3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.

4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8 (GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.

5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.

6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.

7. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ADVANTAGE GROUP ENGINEERS OF ANY DESCREPANCIES.

8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4" FASTEN MASTER LEDGER LOK.

9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE.

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY



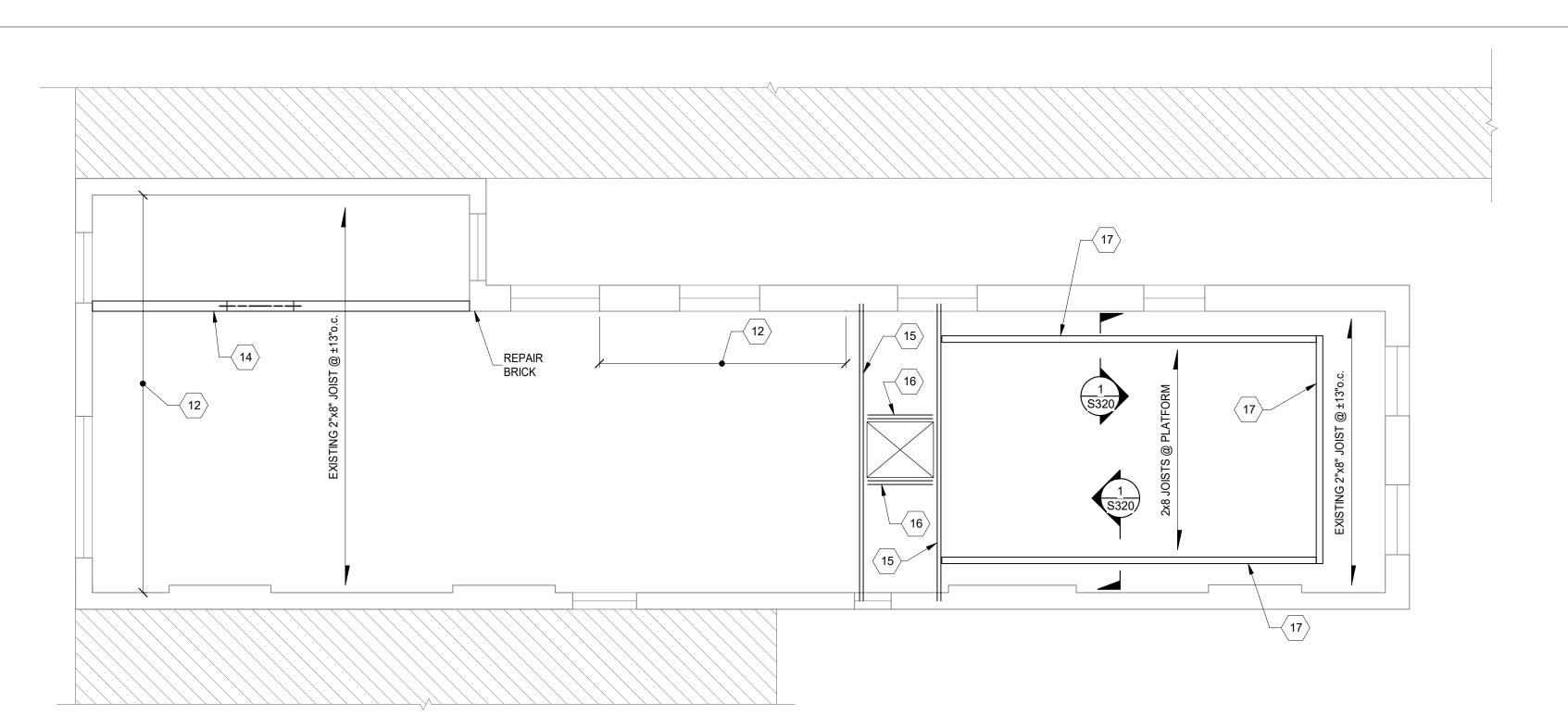
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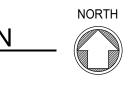
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ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"

REPUBLIC 804



PROJECT KEYNOTES:

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- 3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.
- 5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.
- 6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.
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STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY



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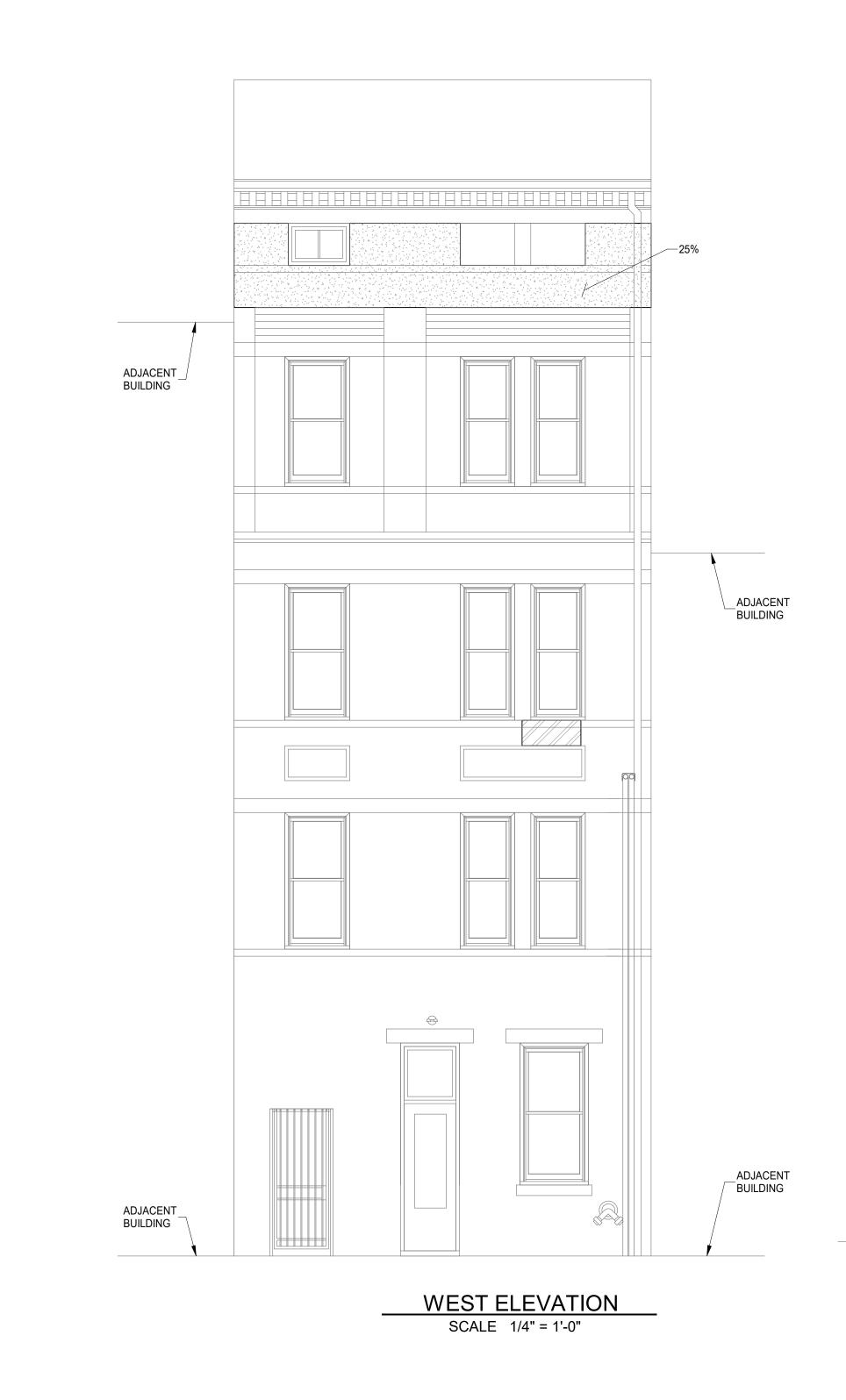
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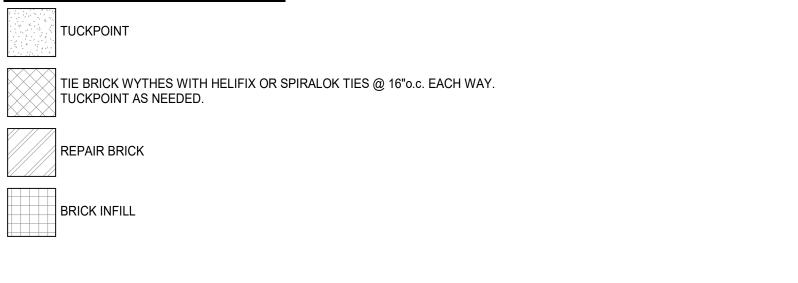
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REPUBLIC 1804





ELEVATION NOTES:



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1. TUCKPOINT JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED OR MISSING.

2. REMOVE AND REPLACE SPALLING OR SOFT BRICK THAT IS COMPROMISED MORE THAT 3/4" OF DEPTH. 3. REMOVE CRACKED, DAMAGED OR SEVERLY SPALLED LINTELS AND REPLACE WITH RECLAIMED STONE OR CAST STONE LINTEL TO MATCH EXISTING.

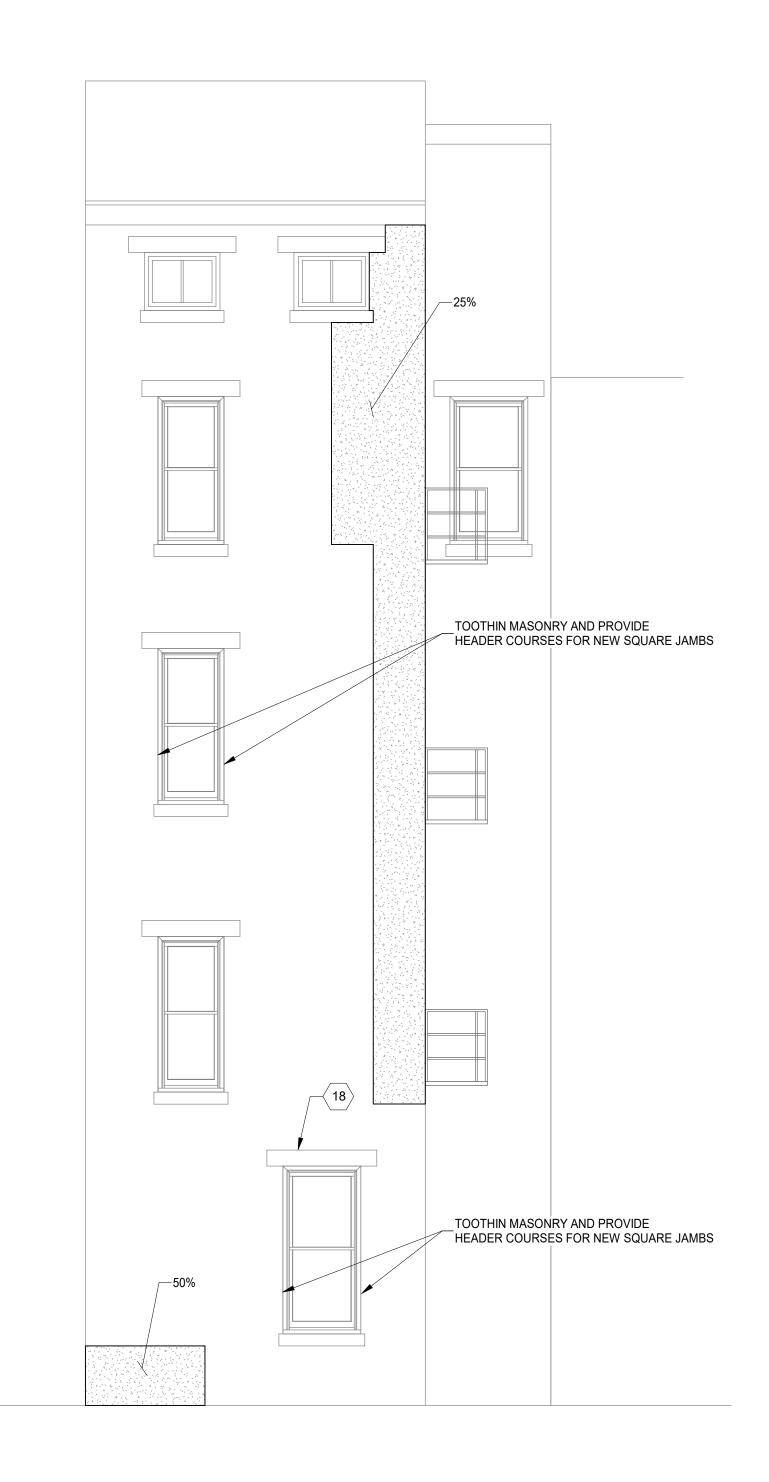
ALL OBSERVATIONS WHERE MADE FROM THE GROUND LEVEL AND REPAIRS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR HANDS ON INSPECTIONS.

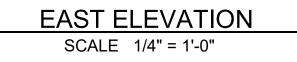
5. AT CRACKS OR DAMAGED AREAS OF PARGE COAT, CONTRACTOR SHALL REMOVE ALL PARGE COAT THAT IS NOT SOUNDLY CONNECTED TO THE BRICK, AND REPLACE WITH NEW PARGE COAT. TUCKPOINT ANY DETERIORATED MORTAR JOINTS PRIOR TO APPLYING NEW PARGE COAT.

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DRAW



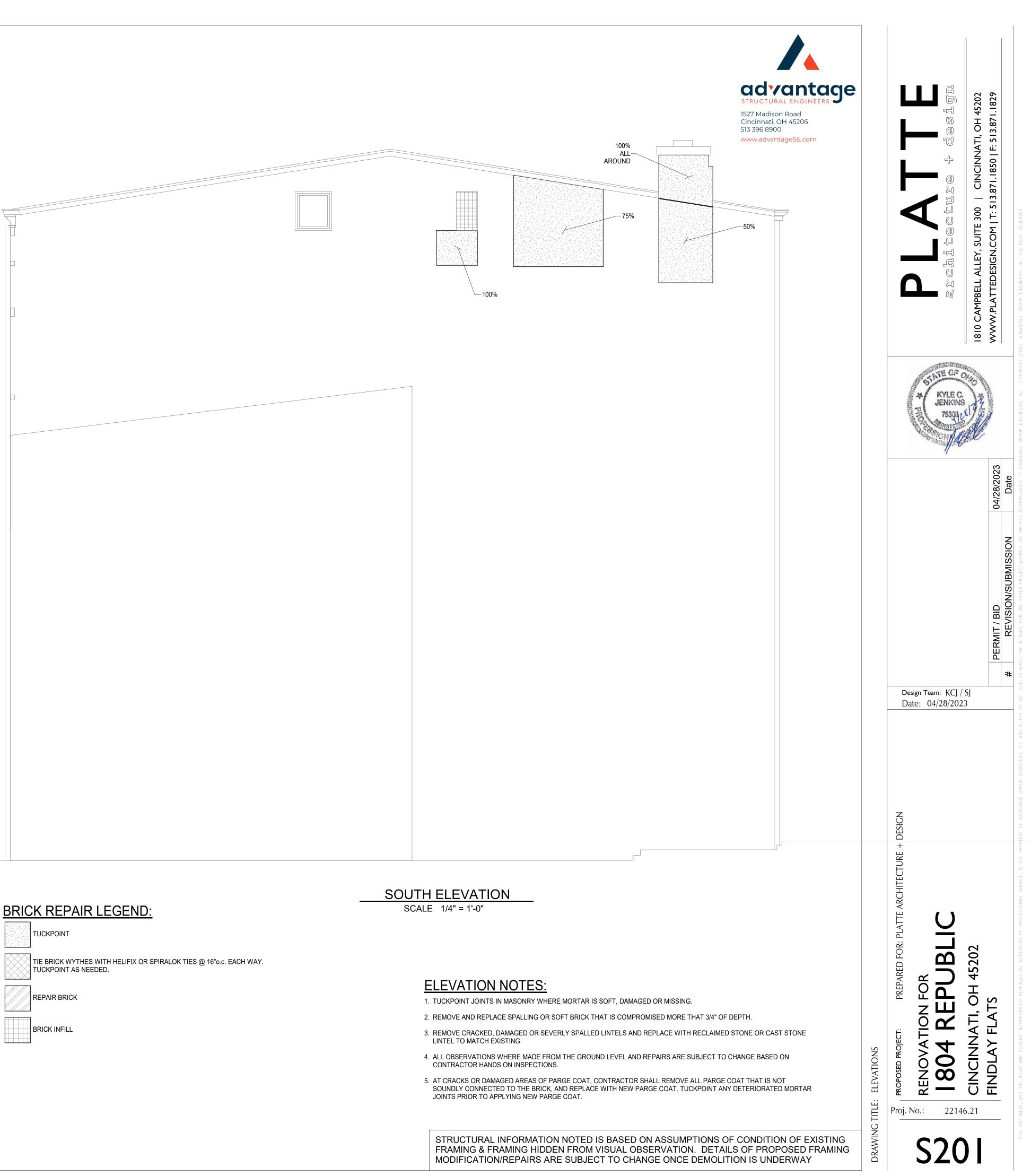


PROJECT KEYNOTES:

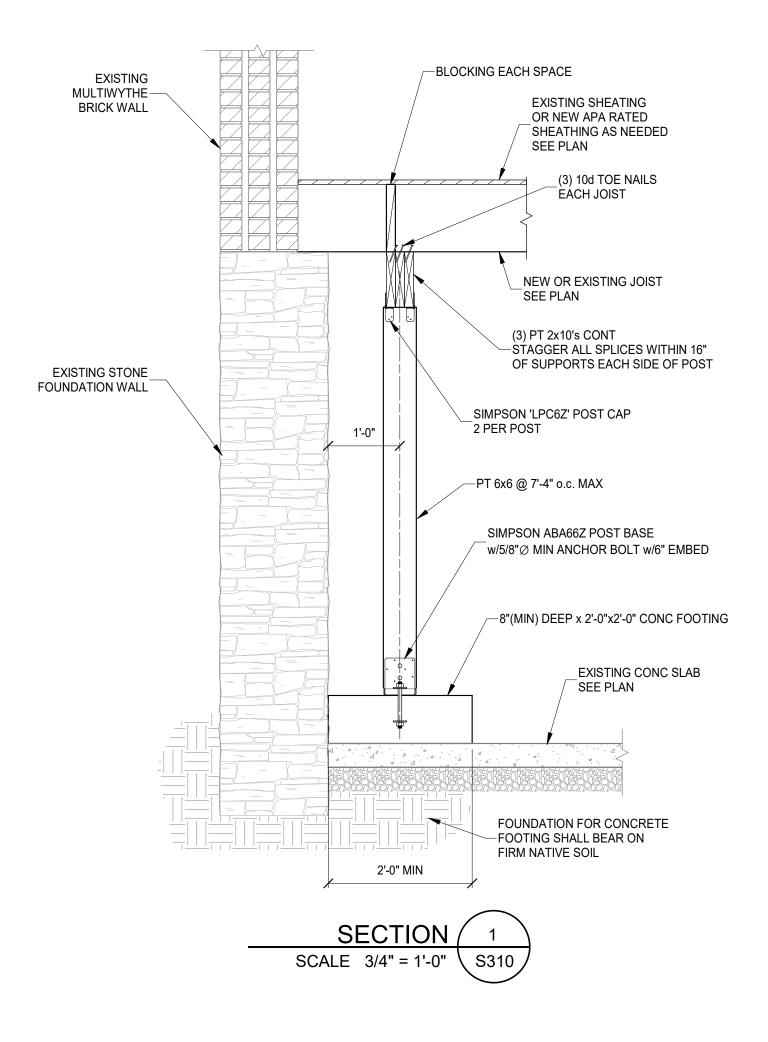
18 PROVIDE NEW LINTELS AT NEW EXTERIOR OPENING PER TYPICAL DETAIL.

1804 REPUBLIC CINNATI, OH 45202

REPUBLIC 1804



BRICK REPAIR LEGEND:	SCALE 1/4" = 1'-0"
TUCKPOINT	
TIE BRICK WYTHES WITH HELIFIX OR SPIRALOK TIES @ 16"o.c. EACH WAY. TUCKPOINT AS NEEDED.	
	ELEVATION NO
REPAIR BRICK	1. TUCKPOINT JOINTS IN MA
	2. REMOVE AND REPLACE S
BRICK INFILL	3. REMOVE CRACKED, DAMA LINTEL TO MATCH EXISTIN
	4. ALL OBSERVATIONS WHE CONTRACTOR HANDS ON
	5. AT CRACKS OR DAMAGED SOUNDLY CONNECTED TO JOINTS PRIOR TO APPLYI



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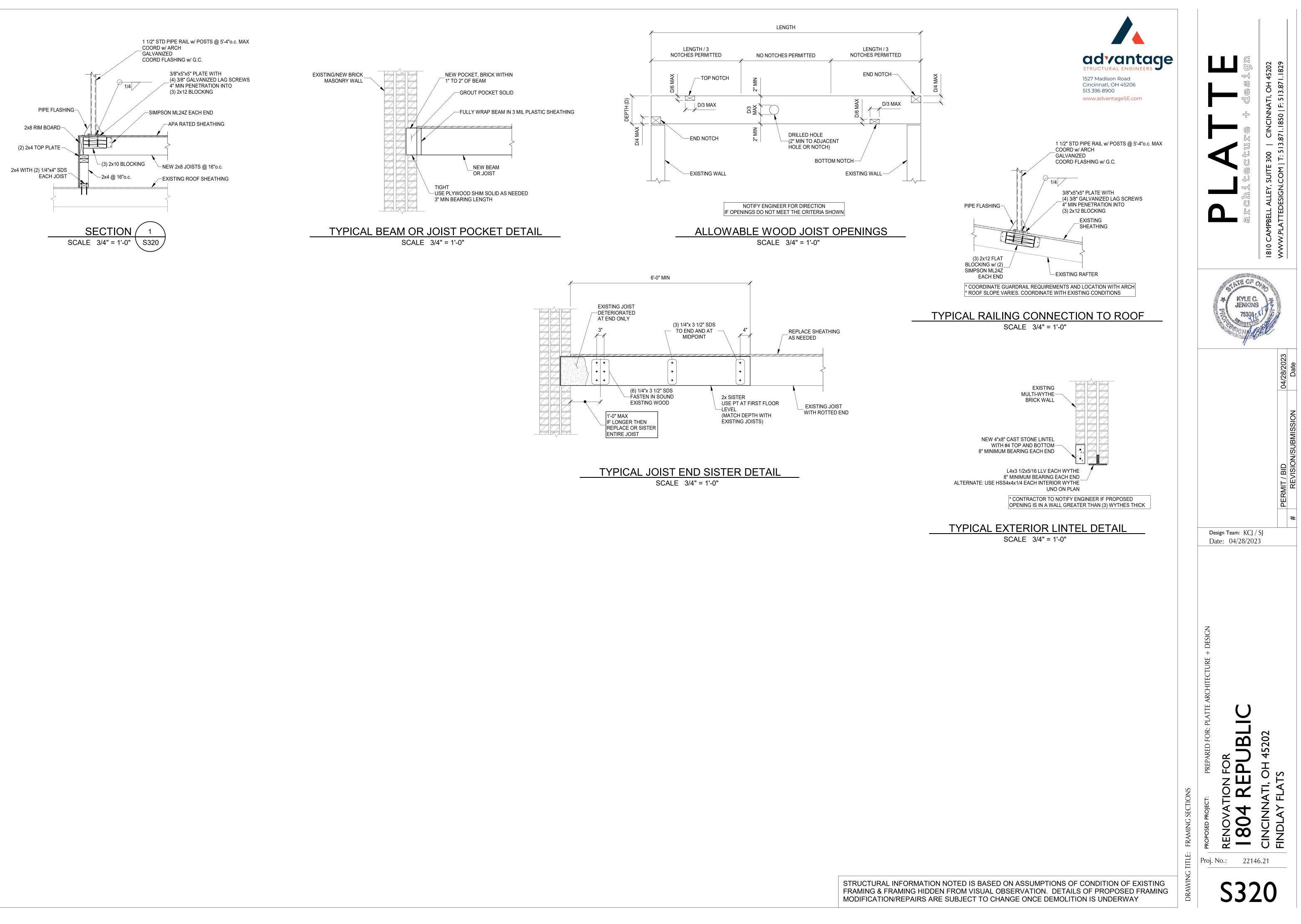
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ЧАТІ, ОН 45202 | F: 513.871.1829 1810 CAMPBELL ALLEY, SUITE 300 | CINCINNA WWW.PLATTEDESIGN.COM | T: 513.871.1850 | F: ∞ Ö NO S RMIT #

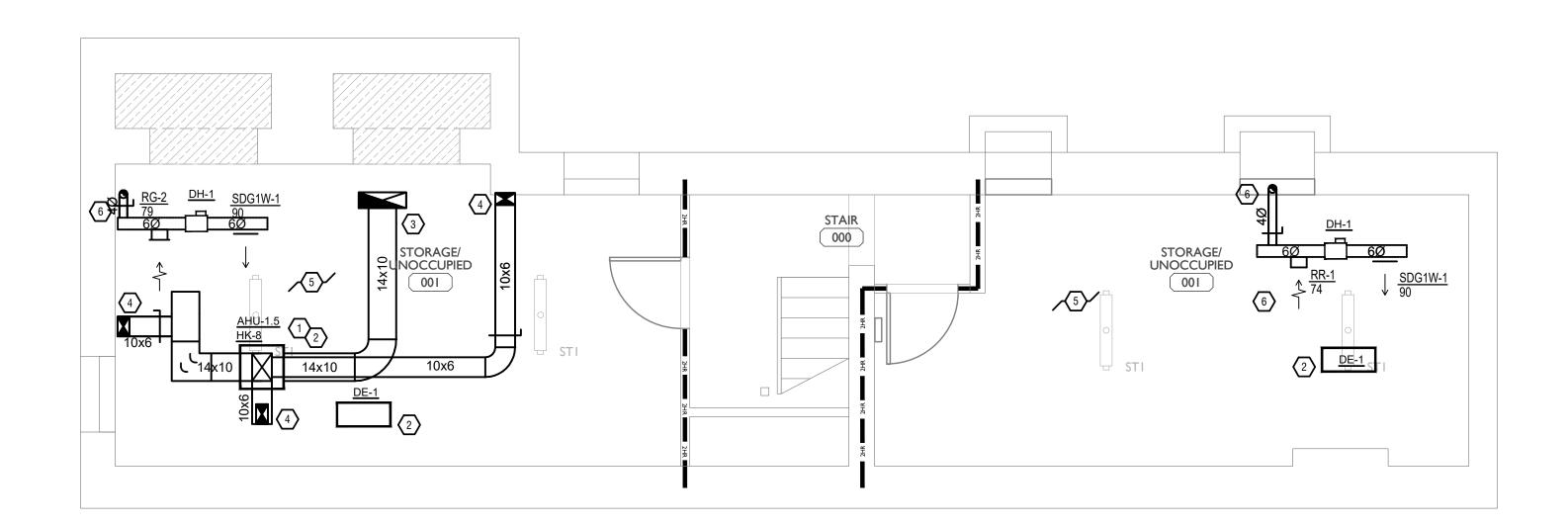
KYLE C. JENKINS 75308)23 04 Щ Design Team: KCJ / SJ Date: 04/28/2023 PLATTE JBLIC 45202 ED FC RENOVATION FOR 1804 REPU OR CINCINNATI, OH ₄ FINDLAY FLATS R Proj. No.: 22146.21 S310

FOUNDATION SECTIONS G TITLE: DRAW

AL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING ION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY



EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDULE							
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1		
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.		
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH		
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH		
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH		
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.		
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH		



✓ KEYED SHEET NOTE 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOO PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FRO PUMP AS REQUIRED.2. ROUTE LINE SET FROM OUTDOOR UNIT TO IND SHALL BE CONCEALED IN FINISHED AREA. SIZI RECOMMENDATIONS. RETURN DUCT UP TO FIRST FLOOR. 4. SUPPLY DUCT UP TO FIRST FLOOR. 5. ALL BASEMENTS SHALL BE VENTILATED AS ST ACCORDANCE WITH TABLE 403.3 OF THE 2017 RATE OF 0.06 CFM PER SQUARE FOOT. PROVID CODE MINIMUM OSA LISTED ABOVE. 6. FRESH AIR INTAKE THRU WALL TO WALL CAP. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALI ARCHITECT BEFORE PENETRATION FOR EXAC COORDINATION. ALL EXHAUST SHALL MEET TH 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILD 8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH RAI 10. MECHANICAL CONTRACTOR TO PROVIDE AND

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		MOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN " ABOVE FINISHED FLOOR.	SCOTT SEVERT				
	J. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.						
	AND LABLED A SMOKE-DEVEL	ITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND LOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN E WITH ASTM E 84 OR UL 723.	Progress Dates 04/28/2023 Permit				
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	DUCT OR I J.D. DUCTS SH PROTRUD J.E. PROTECTI FROM FINI DRYER EX FACE OF A BETWEEN SHIELD PL 0.062 INCH	HE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING FITTING IN THE DIRECTION OF AIRFLOW. HALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT DE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT. IVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS ISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES KHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES I THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. LATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF HES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES DW TOP PLATES.					
	 J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER 						
	LENGTH S FEET FOR	CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 A RADIUS MITERED 90-DEGREE ELBOW.	515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE				
	TITESTIMBULS LE	EGEND — HVAC thermostat	SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.				
		CEILING DIFFUSER					
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TYPICAL RETURN DUCT DN

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MVD MANUAL VOLUME DAMPER

DROPPED CEILING/SOFFIT

FLEXIBLE DUCT, 8'-0" LONG MAX.

TURNING VANES

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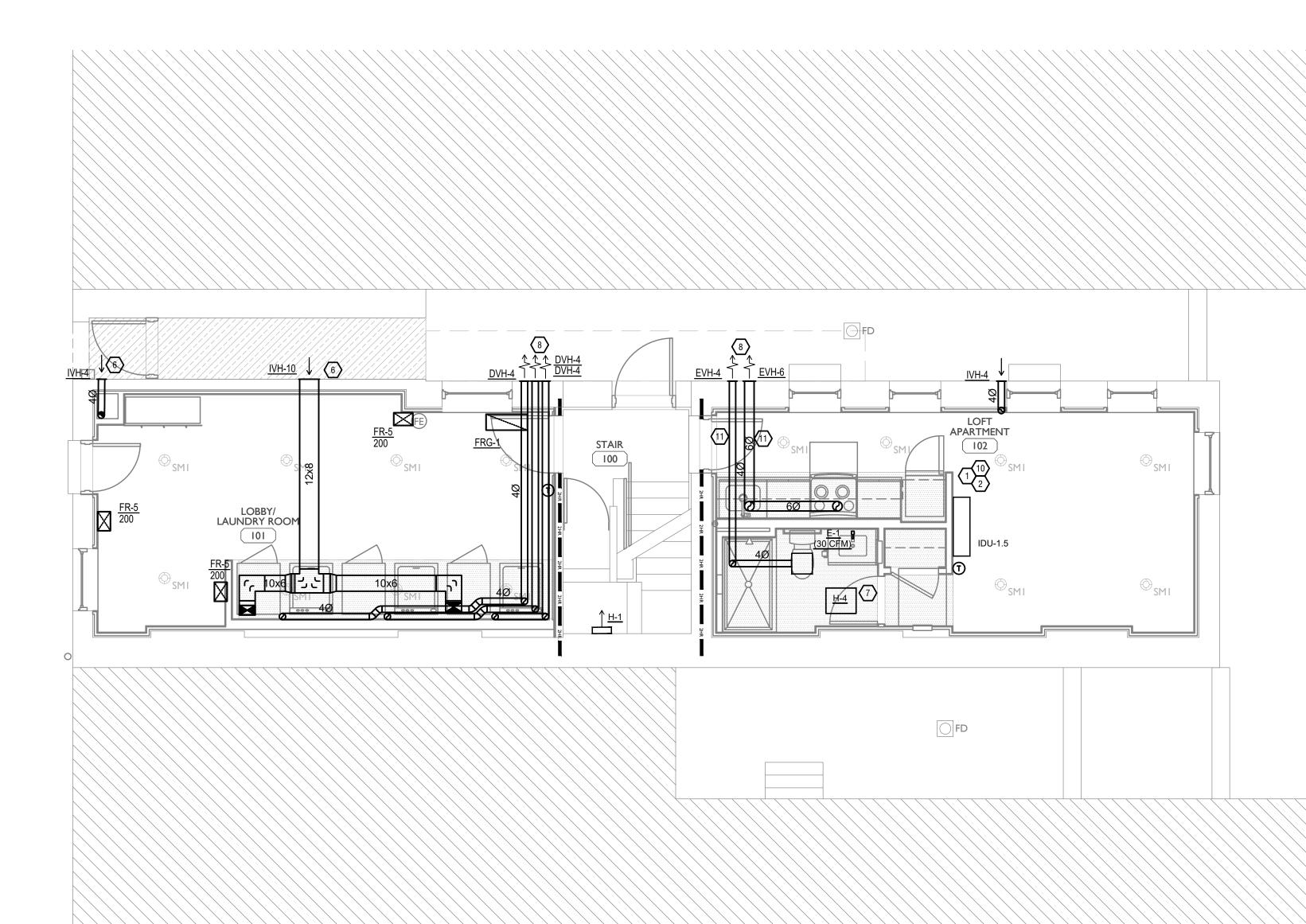
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45202

CINCINNATI, OH, ₄ FINDLAY FLATS

8/10/2022

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH





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	J.D. DUCTS SH PROTRUDE	HALL NOT BE JOINED WITH S DE MORE THAN { INCH INTO	SCREWS OF SIMILAR FASTENERS THAT THE INSIDE OF THE DUCT.		
	J.E. PROTECTI FROM FINI	IVE SHIELD PLATES SHALL ISH OR OTHER WORK ARE	BE PLACED WHERE NAILS OR SCREWS LIKELY TO PENETRATE THE CLOTHES ES SHALL BE PLACED ON THE FINISHED		
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				PROPOSED PROJECT: RENOVATION FOR	1804 RE CINCINNATI, C FINDLAY FLATS



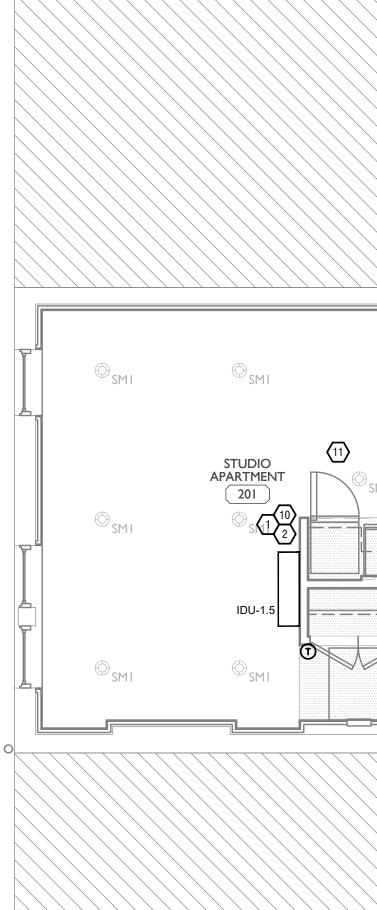
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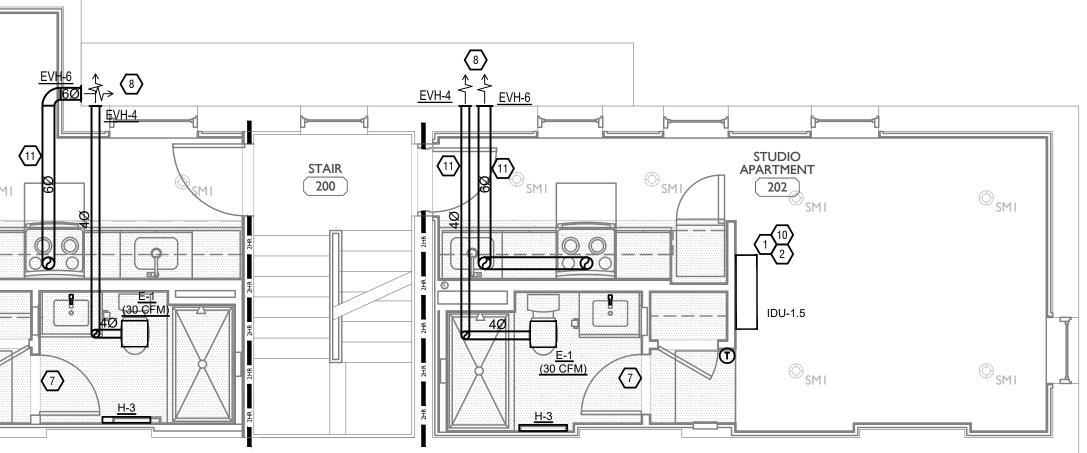
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SCALE: 1/4" = 1'-0"

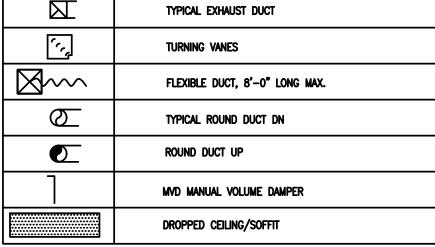
EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDULE							
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1		
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.		
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH		
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH		
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH		
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.		
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH		



★ KEYED SHEET NOT 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FL PIPE A MINIMUM OF 1/8 " PER FOOT AWAY F PUMP AS REQUIRED. 2. ROUTE LINE SET FROM OUTDOOR UNIT TO IN SHALL BE CONCEALED IN FINISHED AREA. S RECOMMENDATIONS. RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR. ALL BASEMENTS SHALL BE VENTILATED AS \$ ACCORDANCE WITH TABLE 403.3 OF THE 20 RATE OF 0.06 CFM PER SQUARE FOOT. PRO CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP UNDERCUT DOOR 1" ABOVE FINISHED FLOOP 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTA ARCHITECT BEFORE PENETRATION FOR EXA COORDINATION. ALL EXHAUST SHALL MEET 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUI 8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH R 10. MECHANICAL CONTRACTOR TO PROVIDE AN ALL EXPOSED REFRIGERANT PIPING AND CO 11. ROUTE EXHAUST DUCT UP IN JOIST POCKET AROUND JOIST TO PREVENT FIRE DAMPER. I FOR DETAILS.



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		G. CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. IUM SLOPE OF 1/8 " PER FOOT, SIZE CONDENSATE PER SECTION	
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	ADA UNITS 40".	ABOVE FINISHED FLOOR.	SEVERT ***
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		CAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND DUIREMENTS WITH THE ELECTRICAL AND PLUMBING	\mathcal{O}
	AND LABLED AS SMOKE-DEVEL	THIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED S HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND OPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN	Progress Dates
	J. THE FOLLOWIN	WITH ASTM E 84 OR UL 723. G GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER	04/28/2023 Permit
	CONSTRUC	DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CTED OF METAL A MINIMUM OF 28 GAGE.	
	J.C. DUCTS SHA PLACE. TH	SHALL BE 4 INCHES NOMINAL DIAMETER. ALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN E INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING	Revisions
	J.D. DUCTS SH/	ITTING IN THE DIRECTION OF AIRFLOW. ALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT.	
	J.E. PROTECTIN FROM FINIS	/E SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS SH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES HAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED	
	FACE OF A BETWEEN	LL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. ATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF	Checked By: SSS
	0.062 INCH AND BELO	ES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES W TOP PLATES. N DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT	Drawn by: RPG
	SYSTEM SH ACCORDAN	HALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN NCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER	PR-09757
	CONSTRUC J.G. PROVIDE D	RYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW	ENGINEERED BUILDING SYSTEMS INC
	INDICATING	PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) GACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH	TEAMWORK • COLLABORATION
	EXHAUST O LENGTH SH	LUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT HALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5	SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585
	FEET FOR A	A RADIUS MITERED 90-DEGREE ELBOW.	MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE
	SYMBOLS LE	GEND – HVAC	PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED
	1	THERMOSTAT	BUILDING SYSTEMS, INC.
		CEILING DIFFUSER	
	$ \rightarrow$	SIDE WALL GRILL	
	<i>←</i>	RETURN WALL GRILL	
	<u> </u>	AIR FLOW DIRECTION DUCTWORK	
		TYPICAL SUPPLY DUCT DN	Ň
		TYPICAL RETURN DUCT DN	\underline{O}
		TYPICAL EXHAUST DUCT	
	<u>ر</u> ب	TURNING VANES	JB 4520
	$\boxtimes \cdots$	FLEXIBLE DUCT, 8'-0" LONG MAX.	
	Ø	TYPICAL ROUND DUCT DN	
		ROUND DUCT UP	proposed project: RENOVATION 1804 RE CINCINNATI, C
		MVD MANUAL VOLUME DAMPER	PROPOSED PROJECT: RENOVATIO 1804 FINDLAY FI
		DROPPED CEILING/SOFFIT	



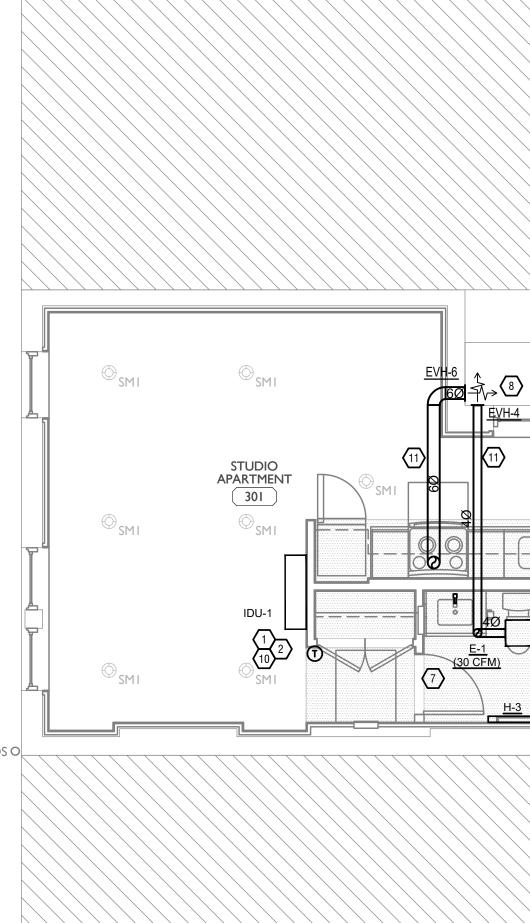


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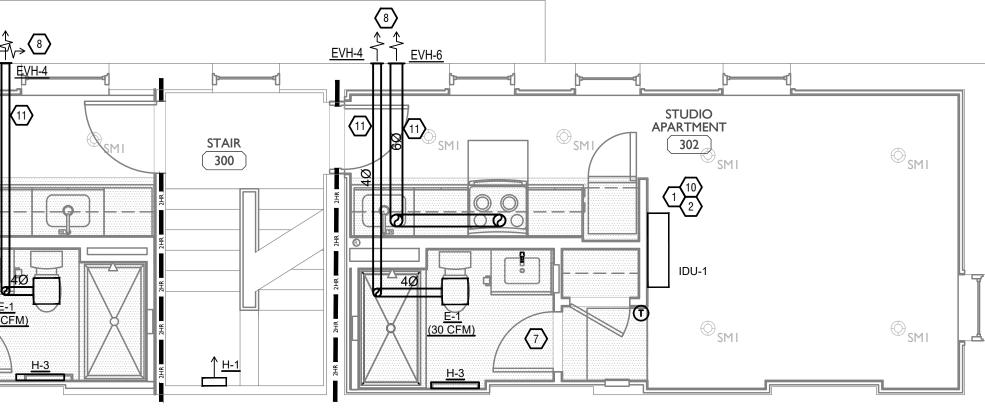
EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDULE							
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1		
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.		
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.		
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH		
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH		
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.		
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH		
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.		
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH		



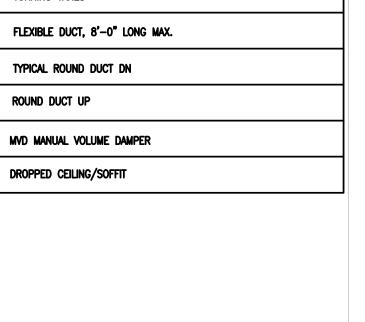
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★ KEYED SHEET NOT 1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FL PIPE A MINIMUM OF 1/8 " PER FOOT AWAY I PUMP AS REQUIRED.2. ROUTE LINE SET FROM OUTDOOR UNIT TO I SHALL BE CONCEALED IN FINISHED AREA. S RECOMMENDATIONS. RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR. 5. ALL BASEMENTS SHALL BE VENTILATED AS ACCORDANCE WITH TABLE 403.3 OF THE 20 RATE OF 0.06 CFM PER SQUARE FOOT. PRO CODE MINIMUM OSA LISTED ABOVE. 6. FRESH AIR INTAKE THRU WALL TO WALL CA UNDERCUT DOOR 1" ABOVE FINISHED FLOC 8. ROUTE EXHAUST TO EXTERIOR WALL. INST ARCHITECT BEFORE PENETRATION FOR EX COORDINATION. ALL EXHAUST SHALL MEET 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BU 8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH F 10. MECHANICAL CONTRACTOR TO PROVIDE A ALL EXPOSED REFRIGERANT PIPING AND C 11. ROUTE EXHAUST DUCT UP IN JOIST POCKET AROUND JOIST TO PREVENT FIRE DAMPER. I

FOR DETAILS.



TES	MECH	ANICAL SCOPE OF WORK	
D FLOOR DRAIN IN BASEMENT. SLOPE		REVIEW ONLY)	4520)
Y FROM UNIT.PROVIDE CONDENSATE TO INDOOR AIR HANDLER. ALL PIPING A. SIZE PER MANUFACTURES	RESIDENTIAL ANI REFERENCE ALL	OPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO O COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. ANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.	ATI, OH A
AS STORAGE/WAREHOUSE SPACE IN 2017 OHIO MECHANICAL CODE AT A PROVIDE NEW FAN IN BASEMENT FOR			H N N N N N N N N N N
CAP. LOOR FOR RETURN/MAKE UP AIR. ISTALL A LOUVERED VENT. SEE EXACT LOCATION AND COLOR EET THE FOLLOWING REQUIREMENTS.	COMME COOLING OUTDOOR: 93 DB / 7 INDOOR: 72	RCIAL RESIDENTIAL 5 WB HEATING OUTDOOR: 0 DB INDOOR: 70 COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 75 HEATING OUTDOOR: 0 DB INDOOR: 70	+ − C + − C • C • C • C
BUILDING.	GENEF	RAL NOTES	
'H RAIN-PROOF CAP. E AND INSTALL LINE-SET COVERS FOR D CONDENSATE PIPING. EKET. RATING SHALL BE MAINTAINED ER. REFER TO ARCHITECTURAL PLANS	SHEETS.	EDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL	4TH FL COM II
	C. COORDINATE V	VITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO	
	D. INSTALL ALL EC CODE RECOMM	AL EQUIPMENT. QUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MENDED CLEARANCES FOR ACCESS AND MAINTENANCE. HITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING	DER STR
	DIFFUSER LOC		. ► □ □ . ►
	LOUVER, BRICH	VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.	₹ 2 ₹ \$
	ABOVE DROP (ARCHITECTUR FLOOR/CEILING	INITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH AL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED G. CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN.	50
	PROVIDE MININ	UM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION OHIO MECHANICAL CODE.	NUMBER OF OF
		IOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ABOVE FINISHED FLOOR.	SCOT
	WITH ADEQUAT NAMED IN THE EQUIPMENT SU BUT NOT LIMIT REQUIREMENT THE MECHANIC	NT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED TE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL UBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, ED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE S AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF CAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND QUIREMENTS WITH THE ELECTRICAL AND PLUMBING	STHLKEY E-77755 E-77755 SONAL ENGLISH
	K. MATERIALS WI AND LABLED A SMOKE-DEVEL	THIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED S HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND OPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN WITH ASTM E 84 OR UL 723.	Progress Dates 04/28/2023 Permit
	EXHAUST SYST J.A. EXHAUST I CONSTRU	IG GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER TEMS. DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CTED OF METAL A MINIMUM OF 28 GAGE. SHALL BE 4 INCHES NOMINAL DIAMETER.	04/20/2025 Termit
	J.C. DUCTS SH PLACE. TH	ALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN E INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING	Revisions
	J.D. DUCTS SH	TITING IN THE DIRECTION OF AIRFLOW. ALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT E MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT.	
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	FACE OF A BETWEEN	LL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER.	Checked By: SSS
	0.062 INCH	ATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF ES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES W TOP PLATES.	Drawn by: RPG
	SYSTEM S	IN DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT HALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN NCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER	PR-09757
	THAN 8 FE CONSTRUC	ET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CTION.	ENGINEERED BUILDING
	NEAR DRY J.H. PROVIDE A	PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD)	SYSTEMS INC.
	SHALL INC EXHAUST (LENGTH SI	G ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH LUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT HALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 A RADIUS MITERED 90-DEGREE ELBOW.	TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH
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		IGEND – HVAC	CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED
	0	THERMOSTAT	BUILDING SYSTEMS, INC.
		CEILING DIFFUSER	
	$ \rightarrow$	SIDE WALL GRILL	
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		TYPICAL RETURN DUCT DN	
		TYPICAL EXHAUST DUCT	SO2 3
		TURNING VANES	452(
		FLEXIBLE DUCT, 8'-0" LONG MAX.	PROPOSED PROJECT: RENOVATION FOR 1804 REPU CINCINNATI, OH, ² FINDLAY FLATS
	<u> </u>	TYPICAL ROUND DUCT DN	
		ROUND DUCT UP	
		MVD MANUAL VOLUME DAMPER	PROPOSED PROJECT RENOVATI 1804 CINCINNA FINDLAY F
		DROPPED CEILING/SOFFIT	RENOVA BAG4 CINCINN FINDLAY
			CIP RET ROP





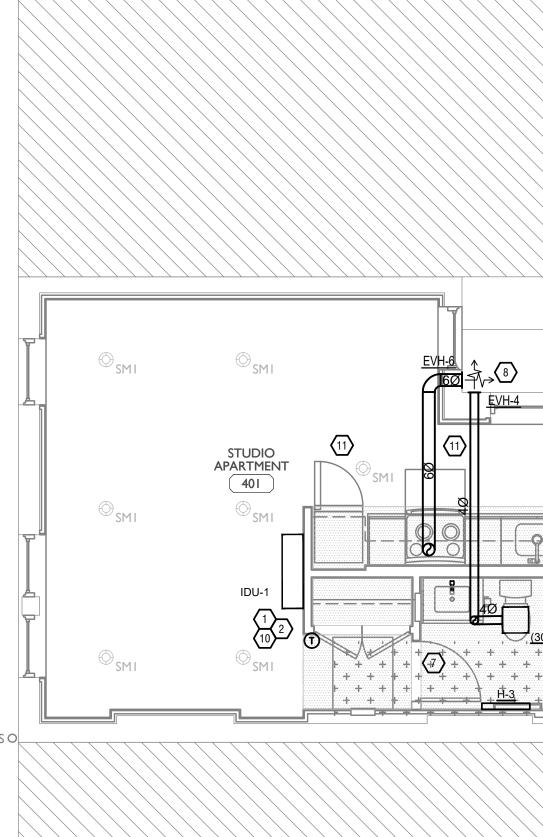
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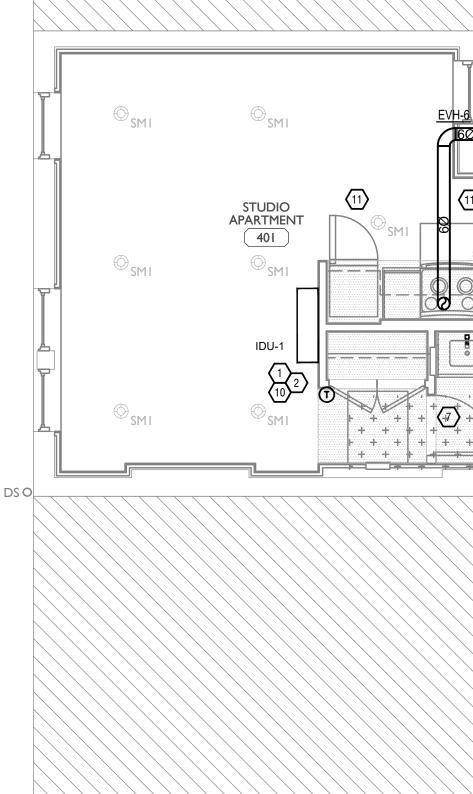
8/10/2022

Job No: 22042

EBS - RESIDENTIAL

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CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH

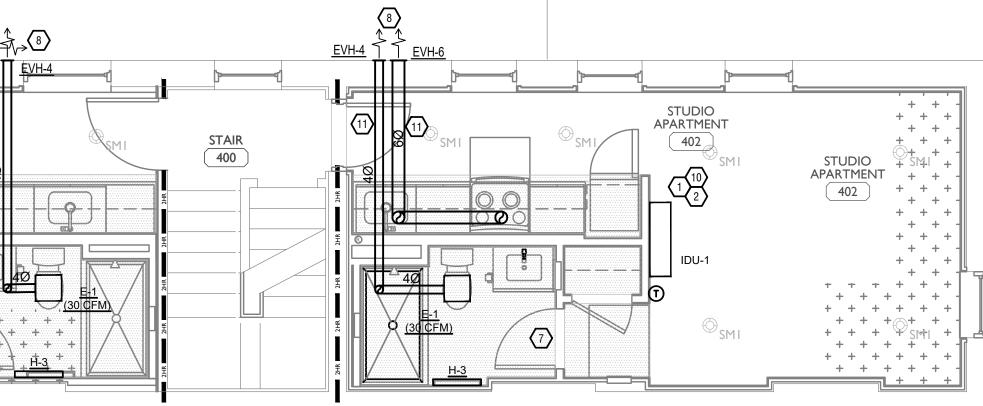




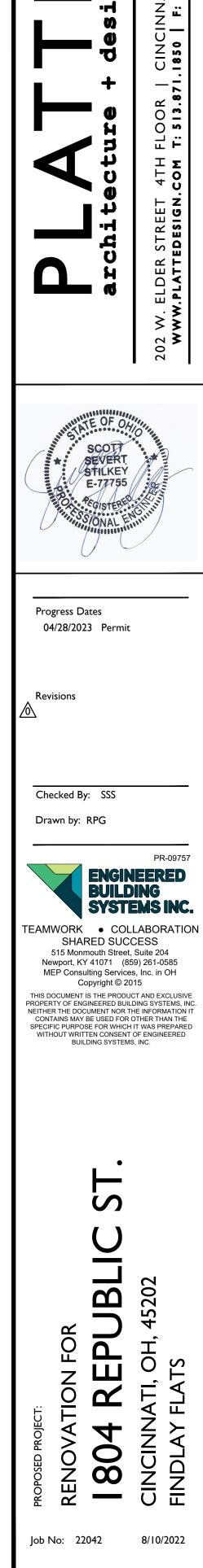
_ DIFFUSER, GRILLE, AND REGISTER SCHEDULE

☑ ★ KEYED SHEET NOTES ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR D PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM U PUMP AS REQUIRED. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR SHALL BE CONCEALED IN FINISHED AREA. SIZE PER

- RECOMMENDATIONS.
- RETURN DUCT UP TO FIRST FLOOR.
 SUPPLY DUCT UP TO FIRST FLOOR.
 ALL BASEMENTS SHALL BE VENTILATED AS STORAGE ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE N CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A ARCHITECT BEFORE PENETRATION FOR EXACT LC COORDINATION. ALL EXHAUST SHALL MEET THE FO
- 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING
- 8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PF 10. MECHANICAL CONTRACTOR TO PROVIDE AND INST
- ALL EXPOSED REFRIGERANT PIPING AND CONDEN 11. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATIN AROUND JOIST TO PREVENT FIRE DAMPER. REFER FOR DETAILS.



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DRAIN IN BASEMENT. SLOPE UNIT.PROVIDE CONDENSATE	``````````````````````````````````````									
OR AIR HANDLER. ALL PIPING PER MANUFACTURES	RESIDENTIAL AN REFERENCE ALL	D COMMERCIAL SPACES DISCIPLINE DRAWING, E	DVIDE NEW HVAC EQUIPMENT TO . MECHANICAL CONTRACTOR SHALL .TC. TO REVEAL FULL SCOPE OF WORK. S FOR ADDITIONAL DETAILS.							
RAGE/WAREHOUSE SPACE IN 110 MECHANICAL CODE AT A NEW FAN IN BASEMENT FOR	HVAC									
R RETURN/MAKE UP AIR. LOUVERED VENT. SEE DCATION AND COLOR FOLLOWING REQUIREMENTS.	COOLING	75 WB OUTDOOR: 0 DB INDOOR: 70	RESIDENTIAL COOLING HEATING OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DE INDOOR: 75 INDOOR: 70							
B.	GENE	RAL NOTES								
ROOF CAP. TALL LINE-SET COVERS FOR NSATE PIPING.		IEDULES, SPECIFICATION	IS, AND COMPLETE LISTING SEE DETAIL							
NG SHALL BE MAINTAINED R TO ARCHITECTURAL PLANS	SHEETS. B. COORDINATE	ROUTING OF ALL WORK V	WITH OTHER TRADES.							
		WITH ELECTRICAL CONT	RACTOR FOR POWER CONNECTIONS TO							
	D. INSTALL ALL E	QUIPMENT PER MANUFA	CTURER'S REQUIREMENTS. MAINTAIN ALL OR ACCESS AND MAINTENANCE.							
	E. REFER TO ARC	CHITECTURAL PLANS FOR	R DIMENSIONS, AND FINAL CEILING							
	DIFFUSER LOC F. PROVIDE BACI		LL EXHAUST SYSTEMS AND EITHER							
			. EXTERIOR BUILDING PENETRATIONS. .Y. RETURN. AND EXHAUST DUCTWORK							
	G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED FLOOR/CEILING.									
	H. ROUTE ALL AI	R CONDITIONER CONDEN	ISATE TO NEARBY FLOOR DRAIN. FOOT. SIZE CONDENSATE PER SECTION							
	307.2.2 OF THE	E OHIO MECHANICAL COE								
	ADA UNITS 40'	ABOVE FINISHED FLOOF								
	J. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL									
	EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF									
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	K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN									
	ACCORDANCE WITH ASTM E 84 OR UL 723. J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER									
	EXHAUST SYSTEMS. J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.									
	J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN									
	PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT									
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	BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES									
	J.F. TRANSITIO		NECT THE DRYER TO THE EXHAUST DUCT TH THAT IS LISTED AND LABELED IN							
	ACCORDA THAN 8 FE	NCE WITH UL 2158A. TRA EET IN LENGTH AND SHAL	INSITION DUCTS SHALL BE NOT GREATER							
	NEAR DRY	DRYER WALL BOX EQUAL 'ER.	TO DUNDAS JAFINE MODEL DRB4XZW							
	INDICATIN	G ACTUAL EQUIVALENT	TAG (EQUAL TO DRYERPLACARD) LENGTH OF EXHAUST DUCT. LENGTH TAG MUST BE WITHIN 6' OF DRYER							
	EXHAUST LENGTH S	CONNECTION. DRYER EX	KHAUST DUCT FITTING EQUIVALENT IUS MITERED 45-DEGREE ELBOW AND 5							
		EGEND – HVAC								
		THERMOSTAT								
		SIDE WALL GRILL								
	«\ 	RETURN WALL GRI								
	₹γ- 14x10	AIR FLOW DIRECTIK	л							
		TYPICAL SUPPLY (DUCT DN							
		TYPICAL SUPPLY L								
		TYPICAL EXHAUST								
		TURNING VANES								
		FLEXIBLE DUCT, 8	'-0" LONG MAX.							
		TYPICAL ROUND D								
		ROUND DUCT UP								



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JATI, OH 45202 513.871.1829

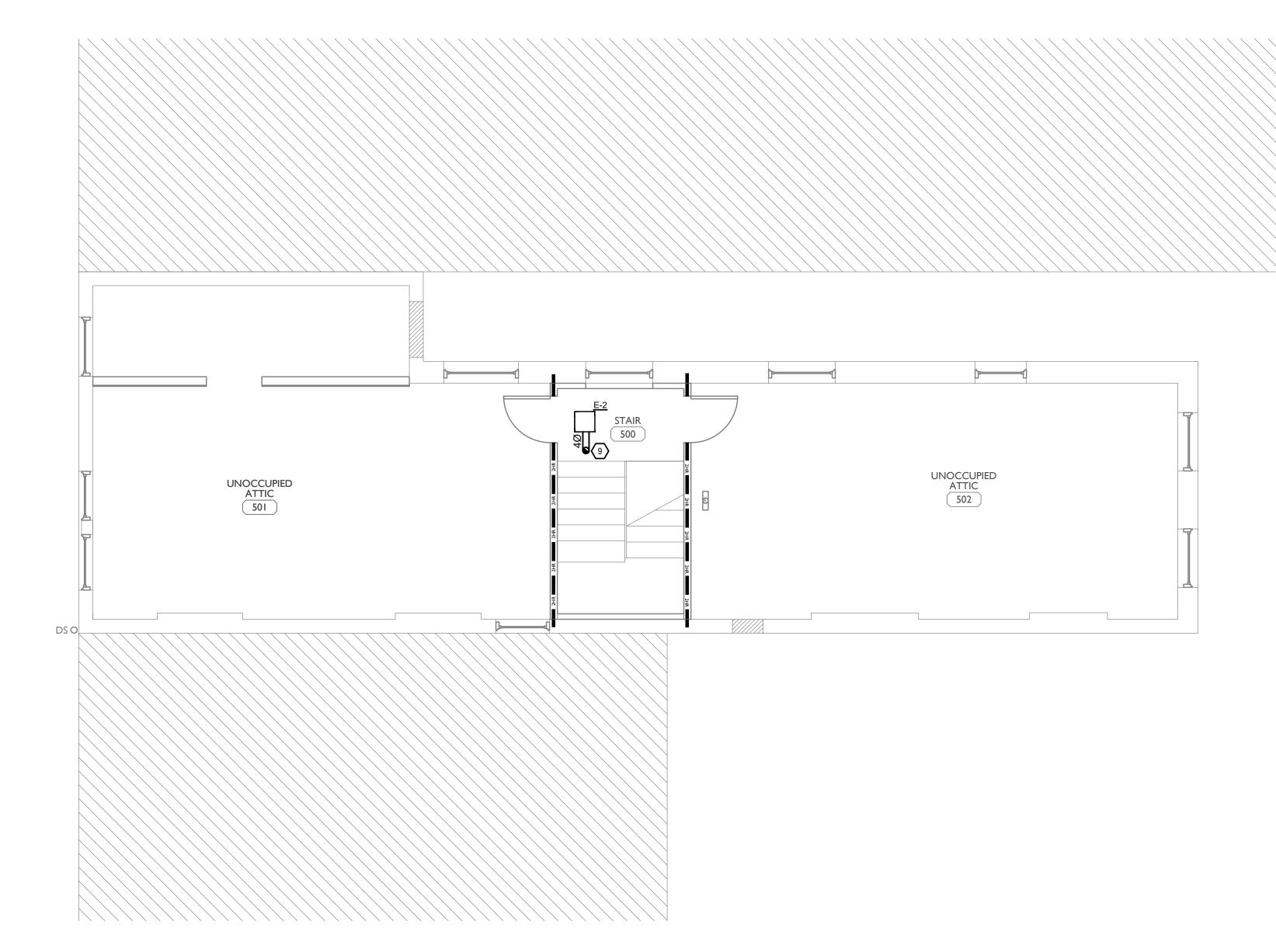
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MVD MANUAL VOLUME DAMPER

DROPPED CEILING/SOFFIT

EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDU	JLE
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CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH



- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT.F PUMP AS REQUIRED.
 ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIF
- SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MA RECOMMENDATIONS. 3 RETURN DUCT UP TO FIRST FLOOR
- RETURN DUCT UP TO FIRST FLOOR.
 SUPPLY DUCT UP TO FIRST FLOOR.
 ALL BASEMENTS SHALL DE VENTION.
- ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/V ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO ME RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW F CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP.
 UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RET
 ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUV ARCHITECT BEFORE PENETRATION FOR EXACT LOCAT COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOCAT
- 8.1. 3' FROM PROPERTY LINE.
 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF 10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL
- ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE 11. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING S AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO A FOR DETAILS.

AIN IN BASEMENT. SLOPE		ANICAL SCOPE OF WORK REVIEW ONLY)								
T.PROVIDE CONDENSATE AIR HANDLER. ALL PIPING MANUFACTURES	RESIDENTIAL AN REFERENCE ALL	OPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO ID COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL . DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. IANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.								
E/WAREHOUSE SPACE IN MECHANICAL CODE AT A V FAN IN BASEMENT FOR	HVAC	DESIGN CONDITIONS								
ETURN/MAKE UP AIR. JVERED VENT. SEE ATION AND COLOR LOWING REQUIREMENTS.		HEATING COOLING HEATING 75 WB OUTDOOR: 0 DB OUTDOOR: 93 DB / 75 WB HEATING INDOOR: 70 INDOOR: 75 OUTDOOR: 0 DB								
	GENE	RAL NOTES								
OF CAP. LL LINE-SET COVERS FOR ATE PIPING.	A. FOR FULL SCH SHEETS.	EDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL								
G SHALL BE MAINTAINED O ARCHITECTURAL PLANS	B. COORDINATE	ROUTING OF ALL WORK WITH OTHER TRADES.								
		WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO CAL EQUIPMENT.								
		QUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MENDED CLEARANCES FOR ACCESS AND MAINTENANCE.								
	E. REFER TO ARC DIFFUSER LOC	CHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING CATIONS.								
		KDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER K VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.								
	ABOVE DROP	JNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH RAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED G.								
	H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.									
	I. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.									
	J. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.									
	K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.									
	 J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYE EXHAUST SYSTEMS. J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE. J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINI DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS TH PROTRUDE MORE THAN ¹/₄ INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREW FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHE DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISH FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCI BETWEEN THE DUCT AND THE FINISHED FACE OF STEEL, HAVE A THICKNESS 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLAT AND BELOW TOP PLATES. J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DU SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREAT THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5 FOR 90. LABELTAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2-6' FOR A RADIUS MITERED 45-DEGREE ELBOW AND FEET FOR A RADIUS MITERED 90-DEGREE ELBOW. 									
	SYMBOLS L	EGEND – HVAC								
	0	THERMOSTAT								
		CEILING DIFFUSER								
		SIDE WALL GRILL								
	<i>«</i> ∿−	RETURN WALL GRILL								
	<u> </u>	AIR FLOW DIRECTION								
	14x10	DUCTWORK								
		TYPICAL SUPPLY DUCT DN								
		TYPICAL RETURN DUCT DN								



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TYPICAL EXHAUST DUCT

TYPICAL ROUND DUCT DN

MVD MANUAL VOLUME DAMPER

DROPPED CEILING/SOFFIT

ROUND DUCT UP

FLEXIBLE DUCT, 8'-0" LONG MAX.

TURNING VANES

MI.05

Job No: 22042 8/10/2022

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PR-09757

ENGINEERED BUILDING SYSTEMS INC.

TEAMWORK • COLLABORATION

SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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45202

CINCINNATI, OH, ₄ FINDLAY FLATS

G

SCOTT SEVERT STILKEY E-77755

Progress Dates

Revisions

Checked By: SSS

Drawn by: RPG

04/28/2023 Permit

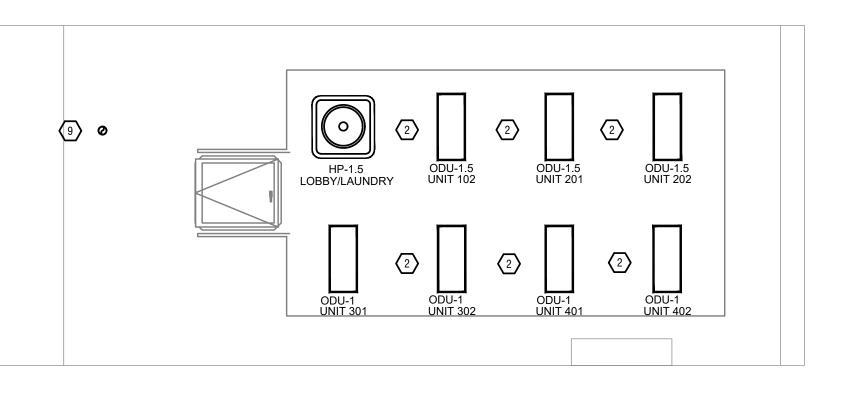
EBS - RESIDENTIAL

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	6x7	4Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
IVH-10	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	13x13	10Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-2	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	10x8	8x6	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH

_ DIFFUSER, GRILLE, AND REGISTER SCHEDULE

★ KEYED SHEET NOTE

- . ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOO PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM
- PIPE A MINIMUM OF 1/8 PER FOOT AWAT FROM PUMP AS REQUIRED.
 2. ROUTE LINE SET FROM OUTDOOR UNIT TO INDO SHALL BE CONCEALED IN FINISHED AREA. SIZE I RECOMMENDATIONS.
- RETURN DUCT UP TO FIRST FLOOR.
 SUPPLY DUCT UP TO FIRST FLOOR.
 ALL BASEMENTS SHALL BE VENTILATED AS STO
- ACCORDANCE WITH TABLE 403.3 OF THE 2017 RATE OF 0.06 CFM PER SQUARE FOOT. PROVID CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP.
 UNDERCUT DOOR 1" ABOVE FINISHED FLOOR F 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL ARCHITECT BEFORE PENETRATION FOR EXACT COORDINATION. ALL EXHAUST SHALL MEET THE
- 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILD 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN 10. MECHANICAL CONTRACTOR TO PROVIDE AND
- ALL EXPOSED REFRIGERANT PIPING AND CON 11. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RA AROUND JOIST TO PREVENT FIRE DAMPER. REF FOR DETAILS.



ES		ANICAL SCOPE OF WORK	50
LOOR DRAIN IN BASEMENT. SLOPE ROM UNIT.PROVIDE CONDENSATE		REVIEW ONLY)	45) 182
INDOOR AIR HANDLER. ALL PIPING SIZE PER MANUFACTURES	RESIDENTIAL AN REFERENCE ALI	COPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO ND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL - DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. HANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.	ATI, OH 513.871.
STORAGE/WAREHOUSE SPACE IN 017 OHIO MECHANICAL CODE AT A 0VIDE NEW FAN IN BASEMENT FOR	HVAC	DESIGN CONDITIONS	NCINN Solar
NP. DR FOR RETURN/MAKE UP AIR. ALL A LOUVERED VENT. SEE (ACT LOCATION AND COLOR THE FOLLOWING REQUIREMENTS.	COOLING OUTDOOR: 93 DB / INDOOR: 72	75 WB HEATING OUTDOOR: 0 DB OUTDOOR: 93 DB / 75 WB HEATING INDOOR: 70 INDOOR: 75 INDOOR: 75 INDOOR: 70	+ − − = = = = = = = = = = = = = = = = =
JILDING.	GENE	RAL NOTES	
RAIN-PROOF CAP. ND INSTALL LINE-SET COVERS FOR ONDENSATE PIPING. T. RATING SHALL BE MAINTAINED . REFER TO ARCHITECTURAL PLANS	SHEETS.	HEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL ROUTING OF ALL WORK WITH OTHER TRADES.	T 4TH T 4TH T V. COM
		WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO CAL EQUIPMENT.	
		EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL IMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.	R ST C
	E. REFER TO AR DIFFUSER LO	CHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING CATIONS.	
		KDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER CK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.	 ₩
	ABOVE DROP	UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH RAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED IG.	202 X
	PROVIDE MIN	R CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. MUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION E OHIO MECHANICAL CODE.	NUMBER OF OF OF OF
		MOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN " ABOVE FINISHED FLOOR.	SCOTT
	WITH ADEQUA NAMED IN THE EQUIPMENT S BUT NOT LIMI REQUIREMEN THE MECHAN	ENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED ATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT E SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL UBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, TED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE TS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF ICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND QUIREMENTS WITH THE ELECTRICAL AND PLUMBING RS.	STILKEY E-77755
	K. MATERIALS W AND LABLED / SMOKE-DEVE	THIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND LOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN E WITH ASTM E 84 OR UL 723.	Progress Dates
	EXHAUST SYS J.A. EXHAUST	DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE	04/28/2023 Permit
	J.B. DUCT SIZ J.C. DUCTS SI	JCTED OF METAL A MINIMUM OF 28 GAGE. E SHALL BE 4 INCHES NOMINAL DIAMETER. HALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN	Revisions
	DUCT OR	HE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING FITTING IN THE DIRECTION OF AIRFLOW. HALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT	
	J.E. PROTECT	DE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT. TVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS HISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES	
	DRYER EX FACE OF	XHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES	Checked By: SSS
	SHIELD P 0.062 INC	I THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. LATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF HES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES	Drawn by: RPG
	J.F. TRANSITI	OW TOP PLATES. ON DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN	
		ANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER EET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN JCTION.	ENGINEERED
	J.G. PROVIDE NEAR DR	DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW	BUILDING SYSTEMS INC.
	INDICATIN SHALL IN	NG ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH CLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER	TEAMWORK • COLLABORATION SHARED SUCCESS
	LENGTH S	CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 & A RADIUS MITERED 90-DEGREE ELBOW.	515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH
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		EGEND – HVAC	CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.
		THERMOSTAT	
		CEILING DIFFUSER	
	$ \rightarrow$	SIDE WALL GRILL	
	« \	RETURN WALL GRILL	•
	← 14×10	AIR FLOW DIRECTION	
			Ň
		TYPICAL SUPPLY DUCT DN TYPICAL RETURN DUCT DN	
		TYPICAL EXHAUST DUCT	BI
		TURNING VANES FLEXIBLE DUCT, 8'-0" LONG MAX.	, 45 , 45
			P P P S
		TYPICAL ROUND DUCT DN ROUND DUCT UP	proposed project: RENOVATION FOR 1804 REPU CINCINNATI, OH, ⁴ FINDLAY FLATS
		MVD MANUAL VOLUME DAMPER	rroposed project: RENOVATIO 1804 R CINCINNATI CINCINNATI
		MVD MANUAL VOLUME DAMPER DROPPED CEILING/SOFFIT	PROPOSED PROJECT: RENOVATI 1804 CINCINNA FINDLAY F

Job No: 22042 MI.06

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8/10/2022

SCALE: 1/4" = 1'-0" MECHANICAL PLAN - ROOF

AREA TAG SERVED REFER TO IDU-1 DRAWING IDU-1.5 REFER TO DRAWINGS 1. SELF CLEANING I 2. INVERTER (VARIABLE SPEED FAN). 3. 3M MICRO DUST FILTER.

LG HIGH WALL S	TYLE (OL

	LG HIGH WALL STYLE (OUTDOOR)																		
TAG	AREA SERVED	MANUFACTURER	SERIES	MODEL	CLG-MBH	NOMINAL TONS	MIN. SEER	EER	HSPF	HEAT-MBH	MAX HEAT @5 DEGREES/ MBH	COOLING OPERATING RANGE (F)	HEATING OPERATING RANGE (F)	VOLT/PHASE	MCA	MOCP	REFRIDGERANT	WEIGHT	NOTE
ODU-1	REFER TO DRAWINGS	LG	HSV5	LSU120HSV5	12	1	22	12.55	10	14	19	14~118	-4~65	208-240/1	10	15	R410A	145	1-6
ODU-1.5	REFER TO DRAWINGS	LG	HSV5	LSU181HSV5	18	1.5	22	12.55	9.5	22	19	14~118	-4~65	208-240/1	19	30	R410A	145	1-6
1. LOW AMBI	ENT OPERATION	TO 14F.														•			

2. FACTORY INSTALLED DRAIN PAN HEATER.

3. DEFROST/DEICING

4. INVERTER VARIABLE SPEED COMPRESSOR. 5. PROVIDE EQUIPMENT SUPPORT EQUAL TO DIVERSITECH MODEL QSMS WITH VIBRATION ISOLATION PADS.

GENERAL NOTES

REQUIREMENTS:

4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF AS ALLOWED BY OBC 717.6.1, EXCEPTION. A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS

THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE

CONSTRUCTED OF STEEL HAVING A MINIMUM WALL THICKNESS OF 0.0187 INCHES (NO. 26

WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED SUCH DUCT MEETS ALL OF THE FOLLOWING

6. TWO INDOOR UNITS.

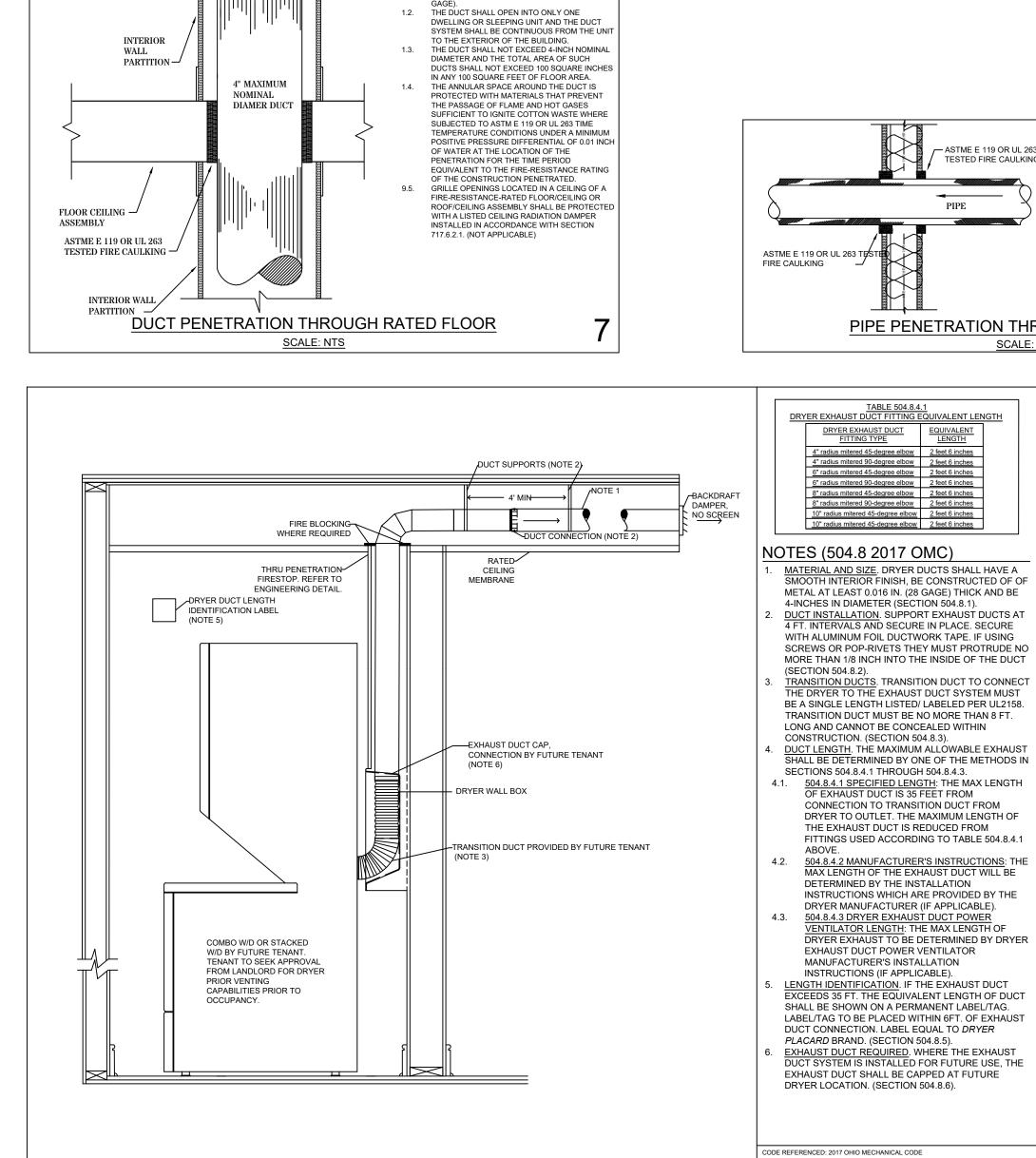
DUCT -

ENTRY/STAIRW

-

SCALE: NTS

PIPE



DRYER EXHAUST DUCT DETAIL

	HIGH WALL STYLE INDOOR														
۹ D															
to Igs	LG	HSV5	LSN120HSV5	459/338/317	12,000	13,600	208-240/60/1	32	1-3						
TO IGS	LG	HSV5	LSN181HSV5	706/530/477	18,000	21,600	208-240/60/1	32	1-3						
G IND	OOR COIL.														

COMMON AREAS: MECHANICAL VENTILATION CALCULATION SCHEDULE * (ASHRAE 62.1 LEED PURPOSES ONLY)

			SIL 1)
			ACTUAL
JNIT	AREA (SQ. FT.)	VENT. AIR REQ.	WHOLE
	ANLA(3Q, FI.)	CFM	BUILDING
			VENTILATION
WELL/CORRIDOR	486	29	30

DUCT INSULATION SCHEDULE

Г		A	IR DISTRIBU	FION TYPE
z		SA	RA	ADDITIONAL NOTES
EQUIPMENT	AHU-A-1.5	R-3.5	N/A	-
	<u>от</u> і			

DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2010 ENERGY CODE. PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND

CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS AND DOORS.

			DOM F	AN SPI							RE								ATIONC			ION
	TYPICAL UNIT			MNAME		1INIMUM SF SETTIN			/UM SF			S	CHEDL	ILE * (ASHR	AE 62	.2 LEE	D PU	RPOSES		() АСТІ	ΙΔΙ
-	102 201			ROOM ROOM		30 30			80 80				UNIT		AREA	`	JMBER		NT. AIR RE	Q.	WHC	DLE
	202		BATH	ROOM		30			80				er in t		FT.) B	EDROO	MS Q	fan (Eq. 4.1	· ·)ing Ation
	301			ROOM		30			80				102		22	5	1		17		30	
\vdash	302 401			ROOM ROOM		30 30			80 80				201		364	4	1		19		30	C
	402		BATH	ROOM		30			80				202		29		1		18		30	
													301		364		1		19		30	
													302		29		1		18		30	
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													402		29		I		10		30	J
}	TYPE		ARFA	SERVED	MANUFA		M	10DEL					ESP	WAT	TS R			ASE MO		WEIGHT		IOTES
	EXHAU		TY	PICAL		SONIC)511 V KS		RECT	30,40		0.25	17		131	115/60/		EILING	12		,2,3,4
	EXHAU			ROOM		SONIC)511 V KS			30		0.25	17		131	115/60/		EILING	12	_	2,3,4,5
	ALL RUN CO																		_			_,0,-,.
-ER	E FV-CSVK TO FAN SP ALL RUN CO	EED SC	HEDUL DUSLY /	E FOR FA	AN SPEE SPEED (3			HEDU	ILE - 2	2017 (MECH	IANICA	L CO[DE							
					NOV			EXHAU	IST			_		TURES					TOTAL		TOT	
200	MNAME		С	OCCUPA LASSIFIC	ATION	(ft2)	A AIF	RFLOW (CFM/f	RATE t2)		ST RATE IXTURE IFM)	100	_ower Ntinuou Rate?	s Inte	HIGHER ERMITTE RATE?		QTY. O FIXTURI	10	EXHAUST IRFLOW RI (CFM)			UST /V AC M)
			Т	VATE DWI				-		30	0/80		YES		NO		1		30		80)
кÖ	MC 2017 TA	все 403.	.3.1.1							NATU			ILATIO REPUE		IEDUL	E						
									. –		DOC	DR	WIND	ow	JNOBST	RUCF	11	TAL	4% O	F	8%	OF
				UNI	Т	ROO	MNAN	ME	ARE		OPEN/ AREA [S		OPEN4 AREA [S	BLF	OPE		OPE	NABLE REA	FLOOR A			
				102					182		0		59		N			59	7			/A
			-	201 202		LIVING/E			26 20		0		33 36		N		_	33 36	11 8			/A /A
				301	1	LIVING/E	BEDR	ООМ	26	7	0		33		N	/A		33	11		Ν	/A
				302 401		LIVING/E			203 267		0		36 33			/A /A	_	36 33	8			/A /A
						SUCH OPE			17 TAB		BU		Y ACCES			E OPEN	INGS AR			ROLLABI	_E B`	Y THE
ΥPI	Ξ	AREA	A SERV	'ED	MANUI	FACTURE	R	MO	DEL	HEAT	г-мвн	FUE		-ĸw v	OLT/PH	ASE	FLA	MO	UNTING	WEIG	нт	NOTE
	ATER	REFEF				OTPOD	ŀ	HP6-100				ELECT			120/1/6	-			VLINE	7		3,4
EBC G H DUN STA	ATER ARD EATER TING SLEE T	REFEF REFEF REFEF VE.	R TO PL	ANS	В	ERKO ERKO MARK		FRA 254 EFF	2W		1 E	LECT	RIC 0.	3	208/1/6 208/1/6 120/1/6	60		BAS	WALL EBOARD EILING	30 30 30		1,2 2 2
											DE	EHUM	11DIFIEI		IEDUL	E						
					TAG A	REA SER	VED	MANUF	ACTUR	RER	MODEL		APACITY	-	AMPS	FUSE		[/PHASE			нт∣і	NOTF
						BASEMEN					1850	<u> </u>	INTS/24 H 95	к ́	8	15		20/1	FLOOR			1,2,3
				1. 2. 3.	ENERGY DEHUMI CORD A	y star ra Dication ND plug E low pr	ATED.	TROL NECTIO	N.				-									, _, U
		I				INDO	OR S	SPLIT	SYST	ΓEM S	CHED	ULE				1	I					
D	MANUFACT	URER	SERI	ES	MODEL		CFM		ES		HEAT-K		HP	VO	LT/PHA	SE N	1CA	MOCF	P MOUN		WE	IGHT
NS	TEMPS	ΓAR	FEM	4X	1800BL	REFE	R TO	PLANS	0.8	5	REFER HEAT K SCHEDU	<m< td=""><td>3/4</td><td></td><td>208/1</td><td>RE</td><td>ER TO SCHEI</td><td></td><td>XIT *</td><td></td><td>1</td><td>16</td></m<>	3/4		208/1	RE	ER TO SCHEI		XIT *		1	16
										H	EAT K	ITSC	HEDUL	.E								
		ТА	G	AREA	SERVED	MANU	IFACT	URER	MOD		HEAT-KV @ 208V	11/01	.T/PHASE	MC CIRCU		MOC CIRCUI		MCA IRCUIT	MO #2 CIRCU		NC	TES
) G-IN WIF E LINK S	DRAN RING HAR SECONDA		TE I-TEMPER	MPST		EHK07 CONTF	7AKB	6.0		208/1	4		45		-		-	1	,2,3
								R SPL		YSTEN	M SCH	EDUI	.E						1			
MAN	UFACTURE	R SEF	RIES	MODEL	CLG-N	NOM	IINAL						_E Volt/ph	ASE I	MCA	MOCP	REFRIC	GERANT	MOUNTIN	G WEIG	нт	NOT

			OM FAN S						RESI	DENTIAL								TION
	TYPICAL UNIT		ROOMNAME		SETTING	ED MAXIN	ETTING	′」 _		SCHEDL	JLE *	(ASHR	RAE 62	.2 LEE		RPOSES	,	T1141
-	102 201		BATHROOM BATHROOM		30 30		80 80	-		UNIT		AREA	(SQ. N			NT. AIR RE(TUAL HOLE
	201		BATHROOM		30		80	-		UNIT		FT	.) BI	EDROO	MS Qfa	an (Eq. 4.1a	· .	ILDING TILATION
	301		BATHROOM		30		80			102		22	5	1		17		30
	<u> </u>		BATHROOM BATHROOM		30 30		80 80	\neg		201		36	4	1		19		30
	401		BATHROOM		30		80			202		29	7	1		18		30
				I						301		36	4	1		19		30
										302		29	7	1		18		30
										401		36		1		19		30
										402		29	7	1		18		30
							FAN	SCHEE	JULE									
TAG	TYPE		AREA SERVE		TURER	MODEL	DRIVE	Τ	CFM	ESP	WA	ATTS F		OLT/PH	ASE MOL	JNTING V	VEIGHT	NOTES
		о т	TYPICAL					-				47 4	404	445/00/			40	
E-1	EXHAU	51	RESTROOM	1 PANAS		-V-0511VKS	2 DIRECT	30	0,40-80	0.25		17 1	131	115/60/		EILING	12	1,2,3,4
E-2	EXHAU	ST	STAIRWELL	PANAS	ONIC F	V-0511VKS	2 DIRECT	•	30	0.25	1	17 1	131	115/60/	1 CE	EILING	12	2,3,4,
3. PROVI 4. REFEF	L RADIATION DE FV-CSVK R TO FAN SPI	1 CONDE EED SCH	R PC-RD05C3 SNSATION S IEDULE FOR JSLY AT LOV	ENSOR FAN SPEED		5												
			MECHA	NICAL EX	HAUST	SCHEDU	LE - 201	7 OHI(CHANICA	LCC	DDE						
						-					TURE							
	ON # / 41		OCCUF	PANCY	AREA	EXHAU				LOWER		HIGHER				TOTAL EXHAUST		OTAL HAUST
RO	OMNAME		CLASSIF		(ft2)	AIRFLOW (CFM/f	KALE PE	RFRIU	JRE C	ONTINUOU	s In	TERMITTE	ENT	QTY. O FIXTURI)F AIF	RFLOW RE	Q. AIRFL	OW AC
					_	,		(CFM)	\square	RATE?		RATE?				(CFM))) (0	CFM)
BAT	HROOM		PRIVATE D' TOILET I		-	-		30/80		YES		NO		1		30		80
ONS PER (DMC 2017 TAE	3LE 403.3.					NA	TURA		TILATIO	N SC	HEDUL	_E		I			
			U	NIT	ROOM	NAME	AREA	OPI	DOOR ENABLE	E OPENA T] AREA [S	ABLE		TRUCED	' OPE	otal Nable Rea	4% OF FLOOR AI		3% OF OR AR
			1	02	LIVING/BE		182		0	59	-	-	I/A	_	59	7		N/A
				201	LIVING/BE		267		0	33		N	I/A		33	11		N/A
				202 601	LIVING/BE		203 267	_	0	36		-	I/A I/A		36 33	8 11		N/A N/A
			3	602	LIVING/BE	DROOM	203	<u> </u>	0	36	6	N	I/A		36	8		N/A
				01 02	LIVING/BE		267 203	_	0	33 36		-	I/A I/A		33 36	11 8		N/A N/A
HERMOST. INCLUDED	EATER EATER OARD HEATER NTING SLEEN	REFER REFER REFER REFER	*VENTILA SERVED TO PLANS TO PLANS TO PLANS TO PLANS	HO1 BE BE	ACTURER TPOD RKO RKO MARK	MOI HP6-100 FRA 254 EFF	HEATER DEL H 0120-2T 4020 2W		H FL ELEC ELEC	CTRIC 1	Г-KW 1 2 .3	VOLT/PH 120/1/¢ 208/1/¢ 208/1/¢ 120/1/¢	60 60 60	FLA 	INI IN V BASE	JNTING LINE WALL BOARD ILING	WEIGHT 7 30 30 30	- NOTI 3,4 1,2 2 2
			I						DEHL	JMIDIFIE	R SC	HEDUL	E					
				TAG AR	EA SERVE		ACTURER	MOE		CAPACITY		AMPS	FUSE	= voi-	T/PHASE			
										PINTS/24 H	IR							
				DE-1 B 1. ENERGY 2. DEHUMID 3. CORD AN 4. PROVIDE	ICATION C ID PLUG C	ED. OLTROL ONNECTIO		185 20MP		95		8	15		120/1	FLOOR	70	1,2,3
					INDOO	R SPLIT	SYSTEM	ISCHE	EDULI	Ξ								
SERVED	MANUFACT	URER	SERIES	MODEL	0	CFM	ESP	HEA	AT-KW	HP	V	/OLT/PHA	SE N	I CA	MOCP	MOUN	TING V	VEIGHT
	S TEMPST	AR	FEM4X	1800BL	REFER	TO PLANS	0.5	HEA	ER TO AT KIT EDULE	3/4		208/1	REI	FER TO SCHEI	HEAT KI DULE	т *		116
								HEAT	KIT §	SCHEDUL	E							
		TAG	ARE	ASERVED	MANUF	ACTURER	MODEL	HEAT @ 20		OLT/PHASE		VICA CUIT #1	MOC CIRCUI		MCA CIRCUIT#	MOC #2 CIRCU		NOTES
			³ DF IN WIRING HA LINK SECON			-	EHK07AKE	6.0		208/1		45	45		-	-		1,2,3
					OUTD	OOR SPL	IT SYST	EM SC	CHED	ULE								
		_				A1									T			
ERVEDIVIA	NUFACTURE	RSERIE	ES MODE	L CLG-MB			ER HEAT-N	/BH MI	N HSPF	VOLT/PH	ASE	MCA	MOCP	REFRI	GERANT	MOUNTING	WEIGHT	

				THROC	M FAN S	PEED SET				RES			NITS: ME						TION
			TYPICAL UNIT		OOMNAME		SETTING	ED MAXIM	ETTING		SCH	=DUL	E * (ASHF	KAE 62	.2 LEED	PURF	-USES (,	TUAL
			102		ATHROOM ATHROOM		30		80 80	-	UNIT		AREA	. (SQ. N	UMBER OF		. AIR REQ.		HOLE
			201 202		ATHROOM		30 30		80		UNIT		FT	Г.) ВІ	EDROOMS		(Eq. 4.1a)		
			301		ATHROOM		30		80		102		22	25	1		17	VENT	<u>ILATIC</u> 30
			302		ATHROOM		30		80		201		36		1		19		30
			401 402		ATHROOM ATHROOM		30 30		80 80		202		29	97	1		18		30
		l				l		1			301		36	64	1		19		30
											302		29	97	1		18		30
											401		36	64	1		19		30
											402		29	97	1		18		30
	Γ								FAN S	CHEDUL	E								
	F	TAG	TYPE	AF	REASERVE			MODEL	DRIVE	CFM	1	ESP	WATTS F		OLT/PHASE			EIGHT	NOT
	-				TYPICAL														
		E-1	EXHAUS	ST F	RESTROOM	PANASC	DNIC F	V-0511VKS2	2 DIRECT	30,40-	80	0.25	17 1	1131	115/60/1	CEIL	ING	12	1,2,3
		E-2	EXHAUS	ят я	STAIRWELL	PANASC	NIC F	V-0511VKS2	2 DIRECT	30		0.25	17 1	1131	115/60/1	CEIL	ING	12	2,3,4
	2 3 4	3. PROVI 1. REFEF	ORIES. LL RADIATION IDE FV-CSVK1 R TO FAN SPE HALL RUN CO		SNSATION S DULE FOR	ENSOR FAN SPEED S		3											
					MECHA		HAUST	SCHEDU	LE - 2017		ECHAN	ICAL	CODE						
												FIXT	URES					Т	
ROOM <mark>/</mark> BER/UNIT	-	p۸	OMNAME		OCCU		AREA	EXHAUS AIRFLOW F		UST RATE	LOW	ER	HIGHEF			E	TOTAL XHAUST	EXH	otal Haus
YPICAL		NU			CLASSIF	ICATION	(ft2)	(CFM/ft	2) PER	FIXTURE (CFM)	CONTIN RAT	UOUS	INTERMITT RATE?	ENT	QTY. OF FIXTURES		LOW REQ (CFM)		OW A CFM)
					PRNATE D	WELLING -				. ,									
					TOILET		-	-		30/80	YE	3	NO		1		30		80
AUST CAL(GULATION	NS PER (OMC 2017 TAB	6∟E 403.3.1	.1				NAT		ENTILA 04 - RE		SCHEDU	LE					
						NIT	ROOM	NAME	AREA	DOO		VINDO\ PENAB	IE UNORS			BIE	4% OF		% OF
										AREA [SC				ENING	AREA	1 -	LOOR ARI		JR A
							LMNG/BE		182	0		59		VA	59		7		N/A
							LIVING/BE		267 203	0		33 36		∿A √A	33 36		<u>11</u> 8		N/A N/A
					3	01	LIVING/BE	DROOM	267	0		33	1	√A	33		11		N/A
							LIVING/BE		203 267	0		36 33		√A √A	36 33		<u>8</u> 11		N/A N/A
							LIVING/BE		203	0		36		₩A N/A	36		8		N/A
[MECHAN	/ENILATION C ISIM FOR SUC	CHOPENI	NGS SHALL	. BE PROVII	DED WITH F BUII 3.3.1.1		CESS	SO THAT TH						
TA	G	TYF	ЭЕ	AREA S	ERVED	MANUFA	CTURER	MOD			FUEL	HEAT-K		IASE	FLA	MOUN	TING	WEIGHT	NO
DH	I-1	DUCT H	IEATER	REFER T	O PLANS	HOT	POD	HP6-1000	0120-2T	3.4 EL	ECTRIC	1	120/1/	60		INLIN	NE	7	3
H-′		WALL H		REFER T		BEF		FRA4			ECTRIC	2	208/1/			IN WA		30	1
H-:		BASEB		REFER T		BEF QM/		2542 EFF1			ECTRIC	0.3 1.5	208/1/			BASEBC CEILI		30 30	
2. INTEG 3. DUCT	GRAL THE	RMOST										FIER	SCHEDU						
						TAG ARE	EA SERVE	D MANUFA	ACTURER	MODEL		/24 HR	AMPS	FUSE	VOLT/P	HASE M	IOUNTING	WEIGHT	
						DE-1 BA	SEMENT	APR	ILAIRE	1850	9	5	8	15	120/	/1	FLOOR	70	1,2
						1. Energy S 2. Dehumidik 3. Cord Ane 4. Provide I	CATION CO D PLUG CO	OLTROL ONNECTION		JMP									
			1					R SPLIT S	SYSTEM	SCHEDU	JLE						1	I	
TAG	AREA SI	ERVED	MANUFACTU	JRER	SERIES	MODEL	с	FM	ESP	HEAT-K		HP	VOLT/PH4	ASE M	ICA N	NOCP	MOUNTI	NG W	/EIGH
HU-1.5 I	REFER TO		S TEMPST	AR	FEM4X	1800BL	REFER ⁻	TO PLANS	0.5	REFER T HEAT KI SCHEDUI	т	3/4	208/1	REI	FER TO HE SCHEDUL		*		116
										HEAT KI	T SCHE	DULE	<u> </u>						
				TAG	ARE	ASERVED	MANUFA	CTURER	MODEL	HEAT-KW @ 208V	VOLT/Pi	IASE (MCA CIRCUIT #1	MOC		MCA CUIT #2	MOCF		
							1	1				`				"		*#2 ''	OTE
			-	HK-8	DF	FER TO	TEMF	PSTAR E	EHK07AKB	6.0	208/	1	45	45		-	-	#2	NOTE 1,2,3
			2	HK-8	DF NWIRING HA	AWINGS		-		6.0	208/	1	45	45		-		#2	
			2	HK-8 1. PLUG-IN 2. FUSE L	DF NWIRING HA	AWINGS RNESS.	EMPERAT	-	CONTROL.				45	45		-		#2	
TAG A	AREA SER		2	HK-8 1. PLUG-IN 2. FUSE LI 3. ETL LIS	DF NWIRING HA NK SECON TED.	AWINGS RNESS. DARY HIGH-T		OOR SPL	CONTROL.	EMSCHE	DULE	I T/PHAS			REFRIGEF		-	#2	1,2,3

1 FAN	ISPE																	
							RES		ENTIAL									
OMNA		MIN	IMUM SPEI SETTING		IMUM SPE SETTING			S	SCHEDU	LE *	* (ASHF	RAE 6	2.2 L	EED P	URF	POSES		
			30		80				UNIT		AREA	(SQ.	NUMB		/ENT	. AIR REQ		CTUAL VHOLE
	ROOM 30 ROOM 30 ROOM 30 ROOM 30 ROOM 30				80 80				UNII		F	· /	BEDR			(Eq. 4.1a)	BU	JILDING
			30		80				102		22	25	1			17	_ v⊨N	ITILATIOI 30
			30		80				201		36		1			19		30
HROC			30		80 80				202		29	97	1			18		30
		I							301		36	64	1			19		30
									302		29	97	1			18		30
									401		36	64	1			19		30
									402		29	97	1			18		30
					FA	NSC	HEDUL	.E										
		MANUFAC		MODEL	DRI		CFM	Л	ESP		ATTS	RPM					EIGHT	NOTE
		MANUFAC	TURER	INDUEL			ULIN	VI	LOF				VOLIA					
STRO		PANAS	ONIC F	V-0511VK	S2 DIRE	СТ	30,40-	-80	0.25		17 [·]	1131	115/	60/1	CEIL	ING	12	1,2,3,4
AIRWE		PANAS		V-0511VK	S2 DIRE	ст	30		0.25		17 [·]	1131	115/	60/1	CEIL	ING	12	2,3,4,5
	N SEN OR FA		SETTINGS CFM)															
1ECF	IANI	CAL EX	HAUST S	SCHED	ULE - 2	017 (1ECł	HANICA	LCC	DDE							
									FIX	TURE	ES					TOTAL		FOTAL
			AREA	EXHA AIRFLOV		EXHAU	ST RATE		LOWER		HIGHEF			. OF	E	XHAUST	E>	KHAUST
CLAS	(CFWft					PER F	FIXTURE (FM)	co	NTINUOUS RATE?	5 IN	ITERMITT RATE?			JRES		LOW REC (CFM)		LOW AC (CFM)
RNATE	NATE DWELLING					•	,			+				1				. ,
TOILET ROOMS			-		30)/80		YES		NO			1		30		80	
									ILATIO			LE						
							DOO		WINDO		UNOBS	TRUCE	=р	TOTAL		4% OF		8% OF
	UNΠ	Т	ROOM	NAME	AREA				OPENA AREA[S			ENING	-0 0	PENABLI AREA	⁼ F			
	102	2	LIVING/BEI	DROOM	182		0	ж. I I <u>.</u>	59	3.11	-	√A		59		7		N/A
	201		LIVING/BEI	DROOM	267		0		33		1	√A		33		, 11		N/A
	202 301		LIVING/BEI		203 267		0		36 33			√A √A		36 33		8 11		N/A N/A
	302	2	LIVING/BEI	DROOM	203		0		36		_	va √A		36		8		N/A
	401 402		LIVING/BEI		267 203		0		33	_		V/A		33		11		N/A
			OF THE OC	CUPIED	SPACE S	HALL	BE THRO	UGH		S, DC	SEC 402.7	R OTH	ER OP	ENINGS -				
MECH VENTI VED PLANS PLANS PLANS		IM FOR SU DN CALCUI MANUFA HOT BE BE		CUPIED NGS SHAI ER OMC 2 MC HP6-10 FR/ 25	SPACE S _L BE PR	HALL I OVIDE E 403 ERS HEAT 3 6	BE THRO ED WITH F BUII 3.1.1 7-MBH 5.4 EL 5.8 EL 1 EL)UGH READ	LATIONS F WINDOW DY ACCESS G OCCUPA IL HEAT IRIC 1 TRIC 2 TRIC 0.1	S, DC S SO ANTS -KW	SEC 402. DORS, OI	1 OF 20 R OTHI IE OPE 1ASE 60 60 60	ER OP	C ARE RE W		HE SPACE Y CONTRO TING NE ALL DARD	DLLABLE	PERATI E BY THE
MECH		IM FOR SU	ATIONS PE ACTURER TPOD RKO RKO	ER OMC 2 MC 2 MC 4 HP6-10 FR/ 25 EFF	SPACE S LL BE PR 017 TABL HEATE DDEL 00120-2T 44020 42W	HALL I OVIDE E 403. ERS HEAT 3 6 5	BE THRO ED WITH F BUII 3.1.1 7-MBH 5.4 EL 5.8 EL 1 EL 5.1 EL		LATIONS F WINDOW DY ACCESS G OCCUPA IL HEAT IRIC 1 IRIC 2 IRIC 0.1 IRIC 1.1	S, DC S SO ANTS KW 3 3 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SEC 402. DORS, OI THAT TH VOLT/PH 120/1/ 208/1/ 120/1/	1 OF 20 R OTHI IE OPE 1ASE 60 60 60 60	FLA 	C ENINGS ⁻ ARE RE		HE SPACE Y CONTRO TING NE ALL DARD	WEIGH 7 30 30 30	PERATII E BY THE IT NOTE 3,4 1,2 2 2
MECH		IM FOR SU DN CALCUI MANUFA HOT BE BE QM TAG AR	ACTURER TPOD RKO WRK EA SERVE	CUPIED NGS SHAI	SPACE S L BE PR 017 TABL HEATE DDEL 00120-2T A4020 42W 	HALL I OVIDE E 403. ERS HEAT 3 6 5	BE THRO ED WITH F BUII 3.1.1 		LATIONS F WINDOW DY ACCESS G OCCUPA CUPA CUPA CUPA CUPA CUPA CUPA CUPA	S, DC S SO ANTS KW 3 3 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SEC 402. DORS, OI THAT TH VOLT/PH 120/1/ 208/1/ 120/1/ 208/1/ 120/1/ CHEDU	1 OF 20 R OTHI IE OPE 1ASE 60 60 60 60 60 1 60 50 1 50 50 50 50 50 50 50 50 50 50	ER OP ININGS	C ENINGS ⁻ ARE RE W BA BA		HE SPACE Y CONTRO TING NE ALL DARD ING	WEIGH	IT NOTE
MECH		IM FOR SU DN CALCUI MANUFA HOT BE BE QN TAG AR DE-1 B ENERGY S DEHUMID CORD AN	ACTURER TPOD RKO RKO MRK EA SERVE STAR RATE ICATION CO ID PLUG CO LOW PRO	CUPIED NGS SHAI	SPACE S L BE PR 017 TABL HEATE DDEL 00120-2T A4020 42W T1500 FACTURE RILAIRE DN. IDENSAT	HALL I OVIDE E 403. ERS HEAT 5	BE THRO ED WITH F BUII 3.1.1 		LATIONS F WINDOW DY ACCESS G OCCUPA IL HEAT IRIC 1 IRIC 2 IRIC 0.1 IRIC 1.1	S, DC S SO ANTS KW 3 3 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SEC 402. DORS, OI THAT TH VOLT/PH 120/1/ 208/1/ 208/1/ 120/1/	1 OF 20 R OTHI IE OPE 1ASE 60 60 60 60	ER OP ININGS	C ENINGS ⁻ ARE RE		HE SPACE Y CONTRO TING NE ALL DARD ING	WEIGH 7 30 30 30	PERATI E BY THE IT NOTE 3,4 1,2 2 2 2
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	IANISI	IM FOR SU DN CALCUI MANUFA HOT BE BE QN TAG AR DE-1 B ENERGY S DEHUMID CORD AN PROVIDE MODEL 1800BL 1800BL ER TO WINGSS.	ACTURER TPOD RKO RKO ARK EA SERVE BASEMENT STAR RATE ICATION CO ID PLUG CO LOW PRO INDOOF C REFER T	CTURER	SPACE S L BE PR 017 TABL HEATE DDEL 00120-2T 4020 42W T1500 FACTURE RILAIRE DN. IDENSAT SYSTI ESF 0.5 0.5		BE THRO ED WITH F BUII 3.1.1 .4 EL .3 EL 1 EL .1 EL		LATIONS F WINDOWA DY ACCESS G OCCUPA EL HEAT RIC 1 RIC 1. RIC 1. RIC 1. RIC 1. RIC 1. RIC 1. A HEAT A RIC 4. A RIC 4. A A RIC 4. A RIC 4.	S, DC S SO ANTS KW 3 3 5 - R R R R C R C C R C C C C C C C C C C	SEC 402. DORS, OI THAT TH 120/1/ 208/1/ 208/1/ 120/1/ CHEDU AMPS 8 8 VOLT/PH/ 208/1	1 OF 20 R OTHI IE OPE 1ASE 60 60 60 60 1 60 1 1 1 1 1 1 1 1 1 1 1 1 1	ER OP ININGS	C ENINGS T ARE RE M BA BA DLT/PHA 120/1		HE SPACE Y CONTRO TING NE ALL DARD NG FLOOR FLOOR	VEIGH 7 30 30 30 30 30 30 30 30 30 30 30 30 30	PERATI E BY THE 3,4 1,2 2 2 2 1 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3
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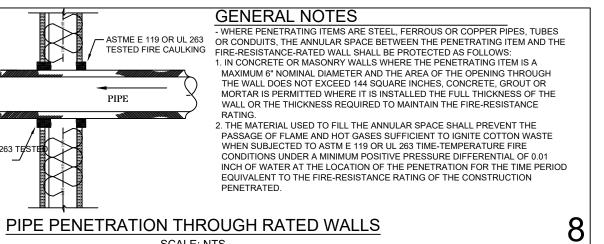
			BA	THROO	M FAN SF	PEED SE	TTING S	CHEDU	LE		RES	IDE	NTIAL U	JNITS:	MECH	ANIC	AL VEN	TILAT	TON CA	LCUL	
			TYPICAL UNIT	R	OOMNAME		IIMUM SPEE SETTING		MUM SPE SETTING			S	CHEDUI	LE * (A	SHRA	E 62.2	2 LEED	PURF	POSES	,	
			102 201		ATHROOM ATHROOM		30 30		80 80			I	JNIT		•				. AIR REQ	. W	TUAL HOLE
			201		ATHROOM		30		80			Ľ			FT.)	BE	DROOMS	Qfan	(Eq. 4.1a)		ILDING TILATION
			301 302		ATHROOM ATHROOM		30 30		80 80				102		225		1		17		30
			302 401		ATHROOM		30 30		80 80				201		364		1		19		30
			402	B/	ATHROOM		30		80				202		297		1		18		30
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												4	402		297		1		18		30
									FA	NSCH	IEDULE	F									
	TA	G	TYPE		REA SERVED		TURER	MODEL	DRI		CFM		ESP		S RPI		LT/PHASE	MOUN		EIGHT	NOTE
	E-	1	EXHAUS			PANAS		V-0511VK	S2 DIRE	СТ	30,40-8	30	0.25	17	113	1	115/60/1	CEIL	ING	12	1,2,3,4
	E-:	2	EXHAUS	st s	STAIRWELL	PANAS		V-0511VK	S2 DIRE	ст	30		0.25	17	113	1	115/60/1	CEIL	ING	12	2,3,4,5
	ACCE 2. INS 3. PR 4. RE	ESSOF STALL I ROVIDE EFER T	RIES. RADIATION EFV-CSVK1 OFAN SPE	I DAMPER 1 CONDES EED SCHE	SLY AT LOW PC-RD05C5 NSATION SE DULE FOR F SLY AT LOW	NSOR AN SPEED	SETTINGS		. RAMP U	PTOH	GH SPEI	ED (8	30 C FINI) VV	HEN SV	WICH IS	IURNI		UVIDE	ALL KELE	VANT	
					MECHAN	IICAL FX	HAUST S	SCHEDI	Л F - 2	017 O	HIO ME	FCH		COD							
														TURES							
ROOM	_	- - -	M A P		OCCUP	ANCY	AREA	EXHA				1.	.OWER		GHER				TOTAL XHAUST		OTAL HAUST
MBER/UNÍ TYPICAL	1	ROOM	NAME		CLASSIFIC		(ft2)	AIRFLOW (CFM	/ RATE ^E /ft2)	РЕК НИ	TURE	CON	NTINUOUS	INTEF	RMITTEN		QTY. OF IXTURES	AIRF	LOW REC	λ. AIRFL	OW AC
					PRIVATE DV					(CFI	,		RATE?		ATE?	<u> </u>			(CFM)		CFM)
		BATH			TOILET R		-	-		30/8	30		YES		NO		1		30		80
IAUST CAI	CULATIONS P	EROM	C 2017 TAE	BLE 403.3.1.	.1								LATION	1804							
									I				REPUB								
											DOOF	र	WINDO	w III	NOBSTR		TOTAL		4% OF		3% OF
					UN	п	ROOMI	NAME	AREA		OPENAB		OPENAE AREA [SC	BLE	OPENI		OPENAB AREA		4% OF LOOR AR		
					10	2	LIVING/BEI	DROOM	182		0		59	×. , , ,	N/A		59		7		N/A
					20 20		LIVING/BEI		267 203		0		33 36		N/A N/A		33 36		11 8		N/A N/A
					30		LIVING/BEI		267		0		33		N/A		33		11		N/A
					30		LIVING/BEI		203 267		0		36 33		N/A N/A		36 33		<u>8</u> 11		N/A N/A
					40		LIVING/BEI		203		0		36		N/A		36		8		N/A
								NA	FURAL VI	ENTILAT	ION CAL	LCUL	ATIONS P	ER SEC	402.1 O	F 2017	OMC				
					NATURAL V		OF THE OC	CUPIED	SPACE S	HALL BE	E THROL	JGH V	WINDOWS	S, DOOF	RS, OR O	THER	OPENINGS	5 ТО TH	HE SPACE	. THE OI	PERATIN
						SIM FOR SU					WITH R	READ		SOTH	,						
					*\/ΕΝΤΙΙ ΔΤ	ION CALCUL				E 403 3		Ding		un 13.							
	1				VENTIEAT				HEATE		···										
TA	AG	TYPE		AREA SE	ERVED	MANUFA	CTURER	MC	DEL	HEAT-	мвн	FUEL	. HEAT-	-ĸw vo	LT/PHAS	E F	LA	MOUN	TING	WEIGH	
Dł		CT HEA	TER	REFER TO	O PLANS		POD	HP6-10	00120-2T			ECTR			120/1/60			INLIN		7	3,4
Н		LL HEA SEBOA		REFER TO			RKO RKO		4020 42W	6.8		ECTR ECTR			208/1/60 208/1/60		B	IN WA		30 30	1,2 2
Н	-4 CEILI	ING HE	ATER	REFER TO			ARK		1500	5.1		ECTR			120/1/60			CEILI		30	2
	I-RECESSED N GRAL THERMO		ING SLEEV	/E.																	
3. DUC	T STAT INCLU	DED																			
4. REP	LACEABLE FIL	TER IN	CLUDED																		
											DEF	HUM	IDIFIER	SCHE	EDULE						
					-	TAG AR	EA SERVEI		ACTURE	RM	ODEL		APACITY -		<i>I</i> IPS	FUSE	VOLT/PH	ASE M	IOUNTING	WEIGH	
					-						1050		NTS/24 HF		0	15	100/1			70	100
									RILAIRE		1850		95		8	15	120/1		FLOOR	70	1,2,3
						1. Energy (2. Dehumid)															
					3	3. CORD AN	D PLUG CO	ONNECTIO	DN.												
					2	1. Provide	LOW PRO	FILE CON	DENSAT	EPUMP	•										
							INDOOF	R SPLIT	SYSTI	EM SC	HEDU	LE									
					I																
TAG	AREA SERV	ED N	ANUFACT	URER S	ERIES	MODEL	С	FM	ESF) F	HEAT-KV	V	HP	VOL	T/PHASE	M	CA MO	DCP	MOUNT	NG \	VEIGHT
											EFER TO					RFF	ER TO HEA	т кіт			
HU-1.5	REFER TO PL	LANS	TEMPST	AR F	EM4X	1800BL	REFER 1	O PLANS	0.5		HEAT KIT CHEDUL		3/4		208/1		SCHEDULE		*		116
									1			-				J			L		
										HE	AT KIT	sc	HEDULI	E							
				TAO							AT-KW			MCA	A	MOCF	P M	CA	MOCI	c	
			-	TAG		SERVED		CTURER	MODE		0) 208V	VUL	T/PHASE	CIRCUI		RCUIT		UIT #2	CIRCUI		NOTES
				HK-8		FER TO AWINGS	TEMP	STAR	EHK07A	КВ	6.0	2	208/1	45		45		-	-		1,2,3
					WIRING HAI	RNESS.						1	I		I		1		1	I	
				2. FUSE LIN 3. ETL LIST	NK SECOND FED.	ARY HIGH-1	EMPERAT	URE LIMN	CONTR	OL.											
							OUTDC	OR SP	LIT SY	STEM	SCHE	DUL	E								
TAO																					
L TAG		• 0/I/A/NI	FAUTURE	R SERIES	S MODEL	. CLG-MB	H TONS		ERHEA		IVIIN HSI	\	OLT/PHA	NE M	CA M		REFRIGER	M IV	UUNTING	vv⊨lGH	
	AREA SERVED									1											

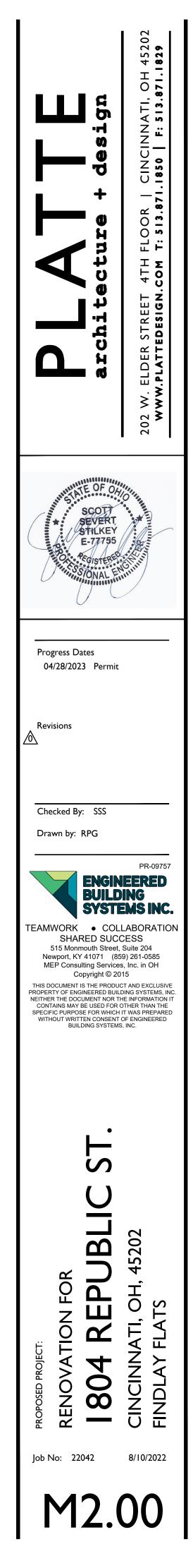
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	MIN	NIMUM SF				SPEED	R									ATION C			TION
		SETTIN 30			SETTI 80	NG												,	TUAL
1		30		80				UNIT			EA (SQ. FT.)		BER OF		NT. AIR RE an (Eq. 4.1			HOLE LDING	
		30 30			80 80							,			Qic	ан (с 9. т . т	u)	VENT	ILATION
		30			80				102 201			225 364		1		17 19			30 30
		30 30			80 80				201			297		1		19			30
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7	MANUFAC			MODEL				JLE FM	ES		VATTS	RPM		T/PHASE				IGHT	NOTES
4																			
1	PANAS	SONIC	FV-	-0511 VK	S2 D	IRECT	30,4	40-80	0.2	25	17	1131	11	5/60/1	CE			12	1,2,3,4
	PANAS			-0511VK				30	0.2		17	1131		5/60/1				12	2,3,4,5
R FA	NSOR AN SPEED SPEED (30	OCFM)																	
NI	CAL EX	(HAUST	r so	CHED	ULE -	- 2017	OHIO	MEC	HANIC	AL C	ODE								
_			T	EXHA	UST					FIXTUR	RES				-	TOTAL			DTAL
	NCY ATION	ARE/ (ft2)	A A	NRFLOV	V RATI		JST RA FIXTUR	TE E C.C			HIGHI NTERMI			ry. Of	AIF	EXHAUST RFLOW RI			HAUST OW AC
	(CFWft2)						CFM)		RATE?		RATE		FIX	TURES		(CFM)		(0	CFM)
	VELLING OOMS					3	30/80		YES		NO			1		30			80
	IOMS						URAL	VEN	ΓILATI	ON S	CHED	ULE							
							1	1804 DOR		JBLIC IDOW				TOTAL					
NΓ	Г	ROO	M N⁄	AME	AF	REA	OPEI	NABLE	OPE	NABLE		3STRUC PENING		OPENAB	LE	4% O FLOOR A		-	% of or are
02	,	LIVING/E		ROOM	1	182		0 0] AREA	[SQ. F 59	1]	N/A		AREA 59		7		_	N/A
01		LMING/E	BEDF	ROOM	2	267		0		33		N/A		33		11			N/A
02 01		LIVING/E				203 267		0 0		36 33		N/A N/A		36 33		8 11			N/A N/A
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	NILATION		000	ROOM NA CUPIED	2 TURAL SPACE		ATION BE THE	ROUGH		33 36 S PER WS, D	OORS,	N/A N/A 2.1 OF 2 OR OTH	IER O	33 36 MC PENINGS					
/E IS	NILATION IM FOR SU DN CALCU MANUF/ HO ⁻ BE BE	OF THE (JCH OPE	OCC NINC PEF	ROOM NA CUPIED GS SHA R OMC 2 MC HP6-10 FR 25	2 TURAL SPACE LL BE 2017 TA HE, DDEL	203 L VENTIL PROVID ABLE 403 ATERS HEA D-2T	ATION BE THI ED WIT E	0 CALCU ROUGH H REA	ILATION	33 36 S PER WS, D ESS SC JPANTS	OORS, 0 D THAT ⁻ S. / VOLT/I 120/ 208/ 208/	N/A N/A 2.1 OF 2 OR OTH THE OP	IER O	33 36 MC PENINGS S ARE R		8 THE SPAC	ROI		N/A PERATII BY THE NOTE 3,4
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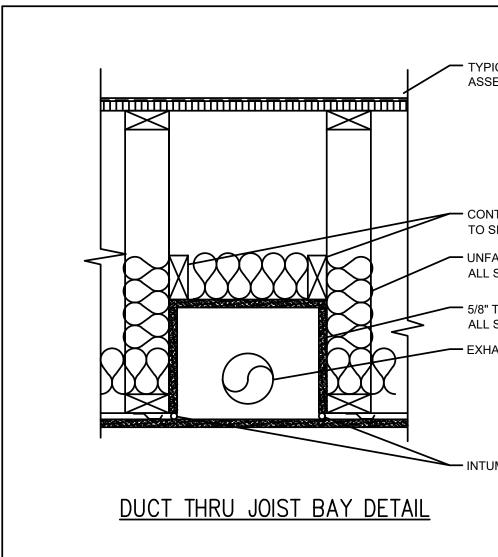
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TAG	AREA SERVED	MANUFACTURER	SERIES	MODEL	CLG-MBH	NOMINAL TONS	MIN SEER	HEAT-MBH	MIN HSPF	VOLT/PHASE	MCA	MOCP	REFRIGERANT	MOUNTING	WEIGHT	NOTE
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.dwg-EBS. Plot Date/Time: Apr 28, TE COMPLIANCE WITH APPLIC ARE INSTALLED IN ACCORDAI uildings)\1804 REPUBLIC\9757-\WINGS HAVE BEEN PREI HODS, AND MATERIALS U CONTRACT I AS O BE OR IS Findlay Flats Findlay Parkside IONS ARE NOT AUTHORIZE THE INSTALLING CONTR/



TYPICAL FLOOR/CEILING ASSEMBLY, SEE A10/A502

- CONTINUOUS 2X4 FASTENED TO SIDE OF FLOOR TRUSS

UNFACED SOUND BATTS @ ALL SIDES OF DUCT CHASE

5/8" TYPE 'X' GYB BOARD ON ALL SIDES OF DUCT CHASE - EXHAUST DUCT

- INTUMESCENT BEAD

a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work

2. Use of Drawings And Specifications

a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational mechanical system are the responsibility of the mechanical contractor.

Standards

- a. Equipment and materials shall conform with appropriate provisions of AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, as applicable to each individual unit or assembly. All equipment must bear UL label. 4. License / Experience
- a. Contractor must be licensed by the state to install HVAC systems/equipment. Contractor must also have a minimum of 5 years of experience and have installed at least (5) successful project installations of similar size and scope. References must be provided upon request.

5. Codes

a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. The mechanical contractor shall satisfy code requirements at a minimum without any extra cost to the owner. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply.

6. Permits and Fees

a. The mechanical contractor shall procure and pay for all permits, fees, taxes, and inspections necessary to complete the mechanical work. Furnish certificate of approval for work from inspection authority to owner before final acceptance for work. Certificate of final inspection and approval shall be submitted with the contractor's request for payment. No final payment will be approved without this certificate.

7. Site Examination

- a. The mechanical contractor shall thoroughly examine all areas of work where equipment, ductwork, and piping will be installed and shall report any condition that in his opinion prevents the proper installation of the mechanical work prior to bid. Contractor shall also examine the drawings and specifications of other branches of work, making reference to them for details of new or existing building conditions. No extras will be allowed for failure to include all required work in bid. b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
- c. Mechanical contractor shall take their own measurements and be responsible for them.
- d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work. 8. Contractor Coordination
- a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the mechanical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
- b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication.
- c. If questions concerning design intent arise during coordination, EBS can assist where appropriate. d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the mechanical drawings; use actual building dimensions.

9. Shop Drawings / Submittals

- a. Submit to the architect electronic copies of complete and certified shop drawings, descriptive data, performance data and ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review. The make, model number, type, finish and accessories of all equipment and materials shall be reviewed and approved by the mechanical contractor and general contractor prior to submitting to the architect for their review and approval. Approval of shop drawings does not relieve the mechanical contractor/vendor from compliance with the requirements of the contract drawings, specifications and applicable codes.
- b. Shop drawings shall be required for the following:
- HVAC equipment
- Fans
- •Diffusers, registers, grilles, dampers, louvers, and all sheet metal accessories
- •Temperature controls
- •Sheet metal coordination drawings
- Duct Sealants
- c. Products installed by the mechanical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.

10. Record Drawing

- a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later
- b. The mechanical contractor shall be responsible for creating record drawings in a format agreed upon by 3CDC, ZHx, and
- 11. Testing
- a. All mechanical systems shall be tested for proper operation.
- 12. Fire Stopping
- a. Provide fire stopping at all penetrations through rated separations per local codes & regulations & per UL recommendations for assemblies encountered in project b. The fire stopping material shall meet the integrity of the fire rated wall, floor, ceiling & roof being penetrated. Refer to
- architect's drawings for wall, floor, ceiling & roof fire ratings prior to bidding work. c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.
- 13. Access Panels
- a. Provide ceiling and wall access panel quantities & locations to the general contractor prior to bidding. Access panels are required for all concealed appliances, controls devices, heat exchangers and HVAC system components that utilize energy. Where access panels are used, the access panel should be sized to allow accessibility for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. There shall be no extras for having to add access panels after bids are awarded.
- 14. Cutting and Patching
- a. Neatly do all cutting as required and patch all cut surfaces to match building construction. The contractor shall employ and pay a trade trained and qualified to perform the required patching work. All surfaces disturbed shall be restored with like materials to the satisfaction of the owner. All penetrations through roof shall be made by bonded roofer. Mechanical contractor shall pay all fees required.
- 15. Flashing & Counterflashing
- a. Roof flashing shall be furnished and installed by the roofing contractor. Roof counterflashing shall be furnished and installed by the mechanical contractor. Coordinate work with roofing contractor and pay all fees.
- b. Obtain approval from general contractor, construction manager, owner and/or roofing contractor prior to making any penetrations so that warranties are not compromised or voided.
- 16. Warranty
- a. The mechanical contractor shall unconditionally warrant all work to be free of defects in equipment, material and workmanship for a period of one (1) year from the date of final acceptance by owner. The mechanical contractor will repair or replace any defective work promptly and without charge to the owner.
- b. Restore any other existing work damaged in the course of repairing defective equipment, materials and workmanship.

17. Mechanical Work

- a. The mechanical contractor shall provide new hvac equipment, fans, ductwork, piping, air devices, controls as indicated on drawings and as specified. Startup and 1st year parts and labor warranty shall be included and manufacturer's extended warranties. Equipment and appliances shall be installed as required by the terms of their approval, in accordance with the conditions of the listing, the manufacturer's installation instructions, and the applicable code.
- 18. Owner's Instructions
- a. Provide two sets of complete operating and maintenance instructions with drawings, typewritten instructions and operating sequences and descriptive data sheets. Assemble each set in a hard-bound cover. Provide pdf files of all documentation. 19. Finale
- a. Put all equipment in service and demonstrate that all conditions of the contract have been fulfilled. Remove all tools, debris, etc. occasioned by work under this contract. Mechanical Contractor to provide a new set of filters in all HVAC units prior to turnover. Submit all warranties, test reports, operating and maintenance manuals for HVAC systems. log sheets and charts, and guarantees as previously specified. Provide all reports, forms, etc. required by inspectors to the satisfaction of the owner. Provide as-built record drawings (in Autocad 2007 or later) showing an accurate account of the final installed systems. Systems including but not limited to all equipment and associated controls, ductwork/piping, air devices, etc.
- 20. Sheetmetal Ductwork
- a. All sizes of ducts shown on the drawings are interior duct dimensions. All ductwork shall be rigid sheetmetal constructed from galvanized sheet steel in accordance with SMACNA low velocity duct construction standards. All exposed ductwork shall be round, spiral, or rectangular lock-seam type, as shown on HVAC drawings. Assemble and install ductwork in accordance with recognized industry practice for achieving air tight (5% leakage) and noiseless (no objectionable noise) systems, capable of performing each indicated service. Furnish all required dampers, transitions, offsets, connections to air devices, and other accessories necessary for a complete operating system. Flexible ductwork shall not exceed 8'-0"
- b. All 90-degree duct turns must be 1.5 radius elbows. If a 1.5 radius elbow will not fit, square elbows with turning vanes can be provided in lieu of radius but should be limited to only areas where there are space constraints.
- c. All takeoff/branch ductwork must utilize boot or conical tee fittings.
- 21. Adhesives and Sealants
- a. Seal all longitudinal and transverse duct joints with a UL 181A or 181B non-hardening, non-migrating mastic or liquid elastic sealant of a type recommended by the manufacturer for sealing joints and seams in sheet metal ductwork. Cover

when tested according to UL 723.

- tape sealing system. c. All duct boots sealed to drywall/finished floor (any interface with another material).
- 22. Duct Supports ductwork.
- 23. Flexible Connections
- 24. Duct Manual Volume Dampers
- 25. Duct Access Doors 26. Diffusers. Grilles and Registers
- ceiling and walls used in this project. 27. Exhaust Fan
- 28. Ducted Split System
- standard warrant
- b. Split system manufacturer shall be Tempstar, Carrier, Goodman, or engineered equal. 29. Condensate Drain Piping

 - pump fails. shut down the unit when the condensate is clogged..
- 30. Piping Supports (Metal Pipe)
- 31. Piping Supports (Plastic Pipe)
- 32. Temperature Controls and Control Wiring
- drawings.
- 33. Commissioning HVAC systems.
- b. ZHCx will conduct onsite observations throughout construction. ZHCx shall be notified prior to any ductwork being
- c. ZHCx shall be notified prior to any equipment start up. ZHCx will witnedd start up of all split systems. If a start up occurs
- has been implemented in its entirety. 34. Sequence of Operation

Heaters

•H-X: heater shall be controlled from the integral thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the electric heating element shall engage to maintain temperature

Exhaust Fans

- Split Systems
- AHU/HP-1.5:
- the setpoint is reached the unit shall shut off.
- shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint. •IDU/ODU-1:

dx cooling coil shall cool the air to maintain temperature setpoint.

•IDU/ODU-1.5: • Heating mode - indoor unit shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. • Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the unit fan shall run, and the

 Dehumidifier ●DEH-1

dx cooling coil shall cool the air to maintain temperature setpoint.

dehumidifier shall shut off

all field joints, joints around spin-in fittings and fastening screws with mastic. All sealants and gaskets shall have surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50

b. Exposed Ductwork: trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part

a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim, and angles for support of

a. Furnish and install neoprene flexible duct connections at the inlet and discharge of units and fans.

a. Furnish and install opposed-blade, leak-proof volume control dampers where indicated on drawings and locations in supply, return and exhaust ducts where branches are taken from larger ducts or at each individual duct register in order to achieve system air balance quantities. Balancing devices must be provided in accordance with IMC 603.18. All manual volume dampers must be shown on coordination drawings when submitted for review.

A.Furnish and install conveniently located duct access doors of ample size and quantity for servicing the dampers.

A.Diffusers, grilles and registers shall be manufactured by titus, price, or engineered approved equal and shall be furnished and installed by the mechanical contractor. Diffusers shall be installed as indicated on the drawings and schedules. The mechanical contractor shall provide all miscellaneous items necessary for a complete and proper installation in the type of

A.Fan manufacturer shall be Broan, Cook, Panasonic, Greenheck, or engineered approved equal. Refer to drawings and schedules for unit location, technical data, and any applicable accessories.

a. Split systems shall consist of high efficient air handling unit and associated heat pump. Equipment shall have manufacturer's

A. The mechanical contractor shall furnish and install condensate drains, p-traps with removable cleanout caps for air equipment per manufacturer's recommendations. The p-trap depth shall be at least the depth specified for the respective pressure drop of the unit. Condensate drain piping shall be schedule 40 CPVC pipe with solvent weld fittings [Insulate condensate walls of pipe with Armaflex AP, flexible closed cell elastomeric foam, self-sealing insulation. Provide 1/2" thick insulation on piping < 1" in diameter and 1" thick insulation on piping between 1" and 1-1/2" in diameter. Pipe insulation shall not exceed 25/50 flame-smoke ratings]. All condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut. For condensate pumps located in uninhabitable spaces (i.e. attics and crawl spaces), provide controls that will shut down the equipment if the condensate

B. All cooling equipment shall have a wet switch in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan (located at a point higher than the primary drain line connection and below the overflow rim of the pan) that will

A.Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of

A. Furnish and install hangers for plastic piping per manufacturer's requirements.

A. The mechanical contractor shall provide all control wiring necessary for the complete and proper operating temperature control system. Programmable thermostats shall be provided with equipment packages unless otherwise noted. B.Exposed wiring: All wiring exposed to the space shall be run in conduit. Coordinate requirements with architectural

a. 3CDC has hired ZHCx to act as their commissioning provider. The commissioning process will be implemented on the

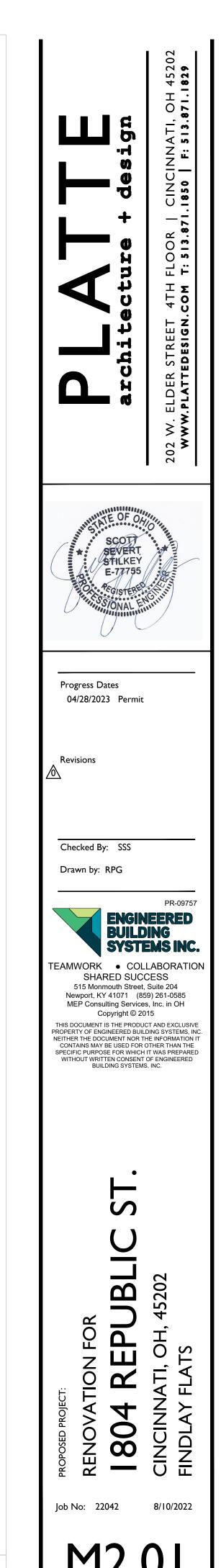
without notifying ZHCx the responsible contractor is required to perform another start up in the presence of ZHCx. d. ZHCx will conduct functional performance testing on all HVAC equipment. Any findings will be reported to 3CDC, project architect, mechanical contractor, and the engineer of record. The responsible party is required to document the correction so that ZHCx can verify the correction has been made. ZHCx will perform one back check of the correction to ensure it

•E-X: exhaust fan shall run on a wall switch (provided by the electrical contractor).

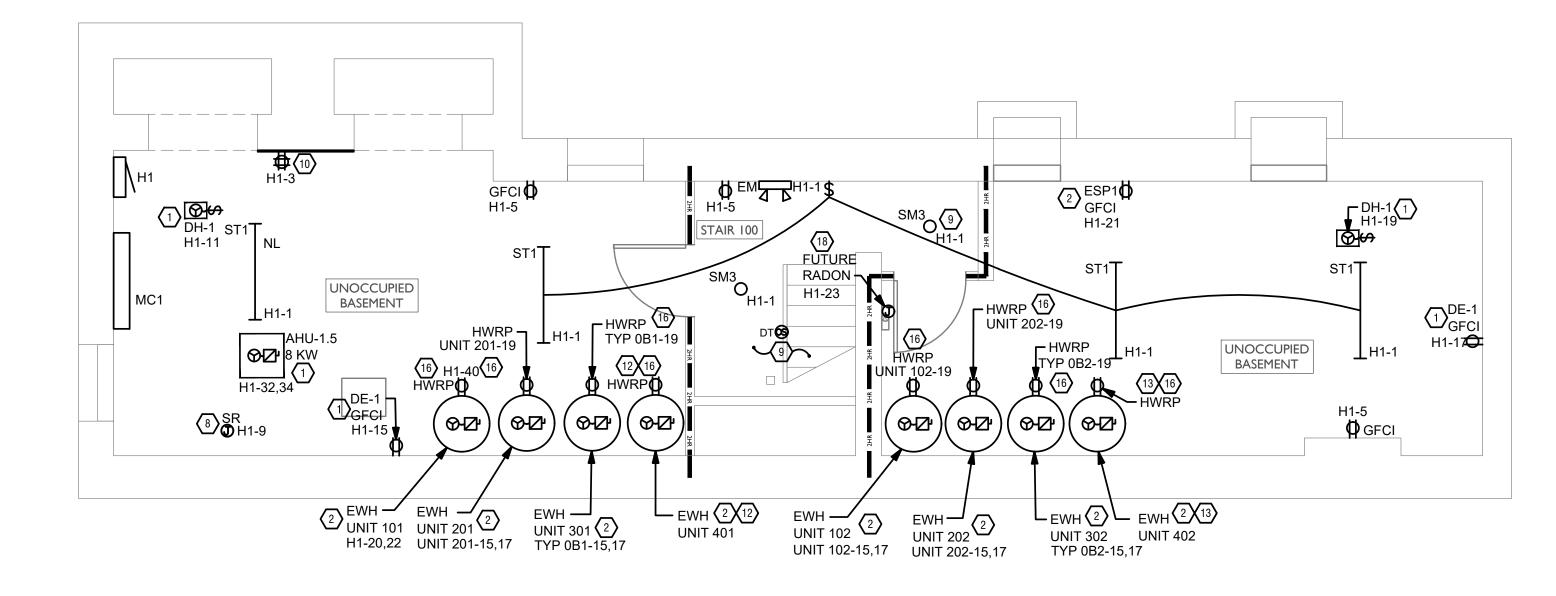
•Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When •Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan

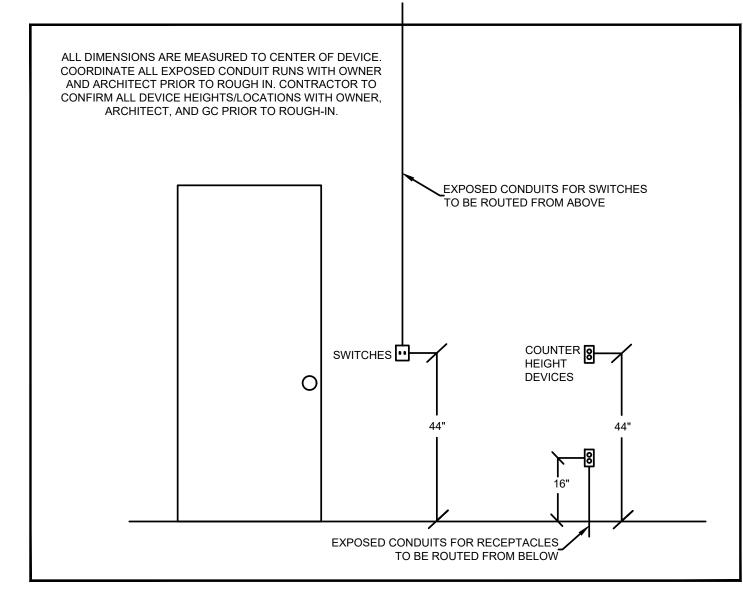
• Heating mode - indoor unit shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. • Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the unit fan shall run, and the

•Dehumidifier shall be controlled from an integral humidistat. When the humidity of the space rises above set point the dehumidifier shall energize and begin to dehumidify the space. When the humidity setpoint is reached the









STANDARD MOUNTING HEIGHTS

GENERAL NOTES-DWELLING

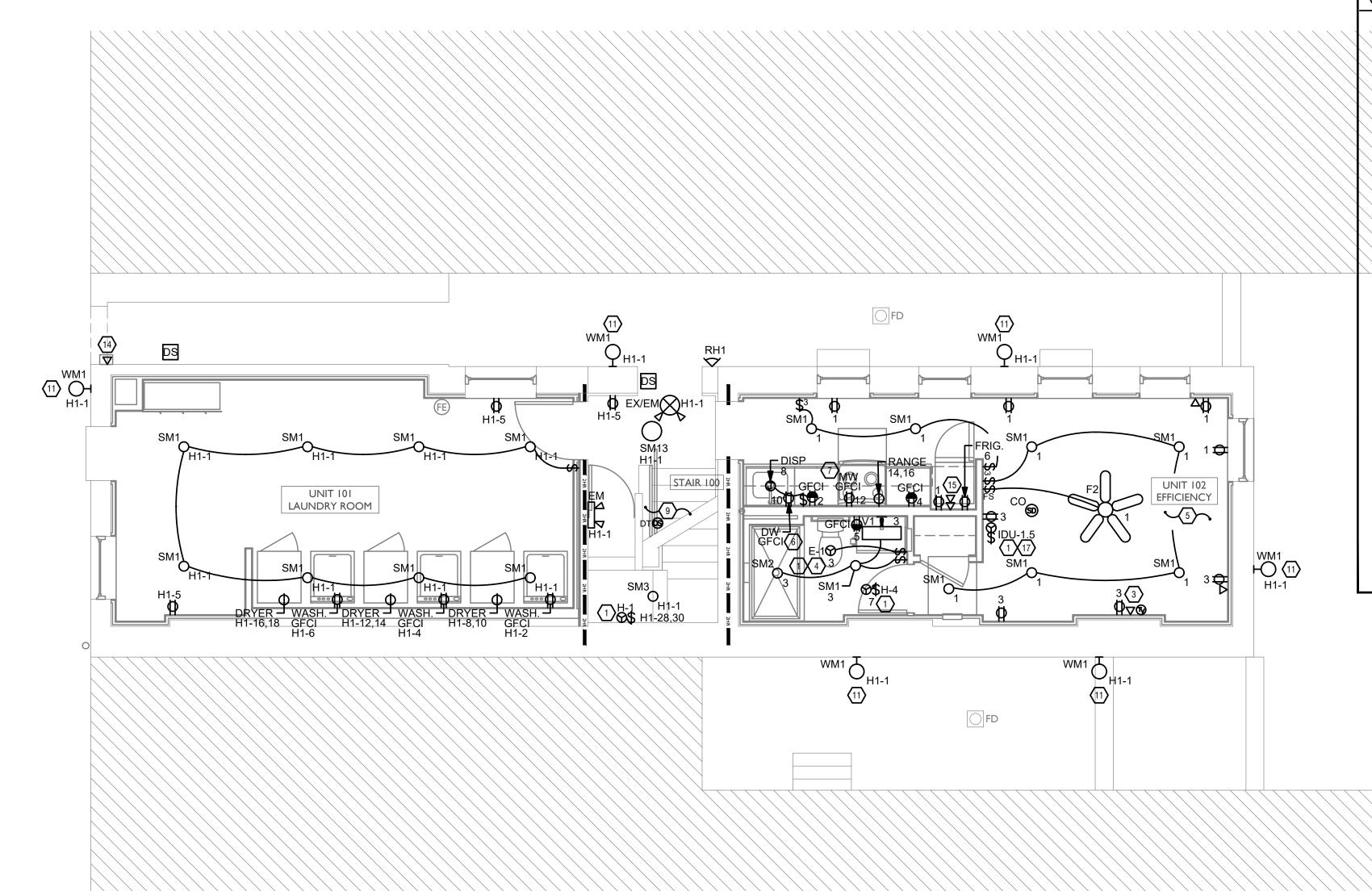
- A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NE PROTECTION MUST BE PROVIDED WHERE EXISTING BR IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. (D) AND NEC 210.12 (D)
- B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIR DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTAL INTERWIRING BETWEEN SMOKE DETECTORS LOCATED SMOKE DETECTORS SHALL BE HARD WIRED WITH BAT ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FUR DESIGN-BUILD BASIS BY THE ELECTRICIAN.
- 2. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYIN VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APP
- PRIOR TO ROUGH-IN. D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR
- LOCATIONS OF ALL LIGHT FIXTURES. E. PROVIDE CONDUIT AND PULL STRING TO APPROVED LO
- DATA, AND CATV CABLES. F. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SI SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMI DWELLING UNIT LOAD CALCULATIONS
- G. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PL FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRI LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO INTENT, AND DEMONSTRATE GENERAL COMPLIANCE W ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATION ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNIT AS "TYPICAL", ETC. OCCUR, CONTRACTOR, UNDER HIS NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIELD DWELLING UNIT RECEPTACLE SPACING REQUIREMENT WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 18 OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES ART. 406.12

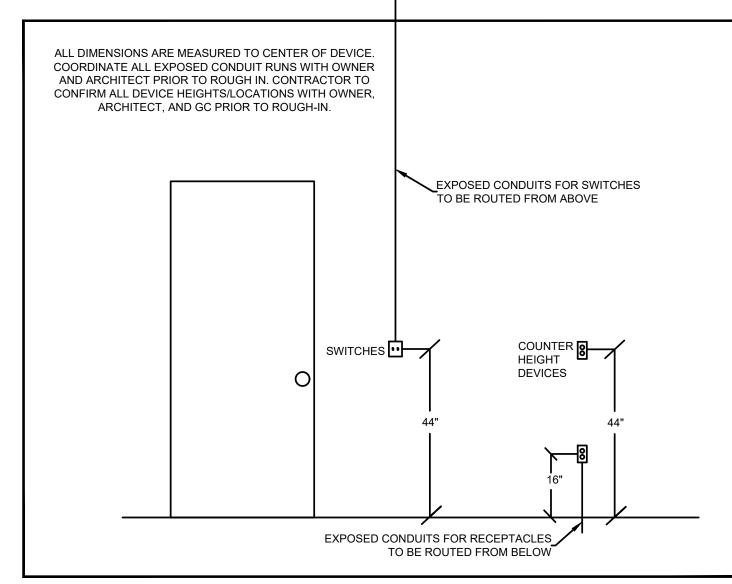
⟨𝔹⟩ KEYED SHEET NOTES

- 1. MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL BY ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL RE MECHANICAL REQUIREMENTS PRIOR TO ROUGH-IN.
- 2. PLUMBING EQUIPMENT PROVIDED BY PLUMBING CONTR ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQU PLUMBING REQUIREMENTS PRIOR TO ROUGH-IN. 3. COORDINATE TV RECEPTACLE AND DATA LOCATIONS V ARCHITECT PRIOR TO ROUGH-IN.
- 4. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUS BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHA PRIOR TO ROUGH-IN.
- 5. PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATT REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST DETECTOR COMBO.
- 6. DISHWASHER MUST BE GFCI PROTECTED PER NEC 210. SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- 7. MICROWAVE RECEPTACLE LOCATED IN CABINET ABOVI LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROU
- 8. PROVIDE 120 VOLT DEDICATED CIRCUIT FOR SPRINKLE FLOW SWITCH. COORDINATE LOCATION WITH FIRE PRO CONTRACTOR.
- 9. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANC OTHERWISE NOTED.
- 10. LOCATION OF BUILDING UTILITY DATA DEMARC. PROVID BACKBOARD FOR DATA/PHONE UTILITIES, COORDINATE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PR QUAD RECEPTACLE AS SHOWN. 11. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCAT
- DEVICE WITH OWNER AND ARCHITECT PRIOR TO ROUG 12. UNIT WIRED TO TYPICAL "0B2" REFER TO PANEL SCHED
- SEE UNIT 301 FOR CIRCUITRY LAYOUT. 13. UNIT WIRED TO TYPICAL "0B1" REFER TO PANEL SCHED SEE UNIT 302 FOR CIRCUITRY LAYOUT.
- 14. COORDINATE LOCATION AND REQUIREMENTS OF BUILD OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 15. INSTALL FIOPTIC 4-GANG AND QUAD OUTLET IN CABINE REFRIGERATOR AS SHOWN.
- 16. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT COORDINATE LOCATION WITH PLUMBING CONTRACTOR
- 17. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR U LOCATION AND DISCONNECTING MEANS WITH INSTALLI
- 18. LOCATION OF FUTURE RADON, PROVIDE JUNCTION BOX FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

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EC 210.12. AFCI BRANCH CIRCUIT WIRING CCORDANCE WITH NEC S. REFER TO NEC 406.4	SCOPE OF WORK RENOVATION OF EXISTING BUILDING MULTIFAMILY BUILDING WITH COMMERCIAL FIRST FLOOR. PROVIDE NEW ELECTRICAL DISTRIBUTION,	ATI, O 13.871
RED BY CODE. SMOKE ED TO CONVEY GENERAL	POWER AND LIGHTING. SEE SINGLE LINE DIAGRAM FOR MORE DETAILS. GENERAL NOTES-OVERALL PROJECT	U U U U U U U U U U U U U U U U U U U
LS. PROVIDE D IN THE SAME UNIT. TTERY BACK-UP. FIRE RNISHED ON A	A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE	4 CIN 5
E UNITS, COORDINATE Y OTHERS WITH SHOP ING THE EQUIPMENT. PPLIANCE FOR EACH UNIT	APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.	FLOOR T: 513.8
	GENERAL NOTES-LIGHTING	
LOCATION FOR VOICE, SHOWN TYPICAL FOR MMARIES FOR INDIVIDUAL	 A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES. B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL 	STREET
PLACEMENT WITH RIOR TO ROUGH IN. D CONVEY DESIGN	SWITCHING. C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.	
WITH CODE. WHERE ONS TO BE NITS THAT ARE SHOWN S BASE BID, TO MAKE	D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.	► EL • • • • • • • • • • • • • • • • • •
D TO MAINTAIN NEC ITS. WHERE ACTUAL ION OF A WALL 18 INCHES OF THE BASE ES AS REQUIRED BY NEC	 E. ELECTRICAL SWITCHES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN BOXES. 	202 X
ES AS REQUIRED BY NEC	GENERAL NOTES-POWER	
	A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.	
CONTRACTOR, WIRED	 B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. 	
TRACTOR, WIRED BY UIREMENTS WITH	C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE	
WITH OWNER AND	ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED. D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.	
IANICAL CONTRACTOR	E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.	Progress Dates 05/05/2023 BID P/E/FP
ST BE A SMOKE/CO 10.8(D) RECEPTACLE	F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL	05/05/2023 BID P/E/FP
VE, COORDINATE OUGH-IN.	ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.	Revisions
ER RISER TAMPER AND ROTECTION	G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR	
ICY SENSOR UNLESS /IDE A 4'X4'X ³ " PLYWOOD	ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION	
TE ALL REQUIREMENTS PROVIDE DEDICATED	GUIDELINES WHERE REQUIRED. I. ELECTRICAL RECEPTACLES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD	Checked By: PRS Drawn by: AJW
TION OF PHOTOCELL IGH-IN. EDULE FOR LOAD DATA.	BETWEEN BOXES.	PR-09757
EDULE FOR LOAD DATA.		ENGINEERED BUILDING SYSTEMS INC.
LDING CALL BOX WITH		TEAMWORK • COLLABORATION SHARED SUCCESS
T CONNECTION. OR. PRIOR TO ROUGH-IN.		515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015
UNIT. CONFIRM LING CONTRACTOR. OX FOR FUTURE RADON		THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC. NEITHER THE DOCUMENT NOR THE INFORMATION IT CONTAINS MAY BE USED FOR OTHER THAN THE
		SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.
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		proposed project: RENOVATION FOR 1804 REPU CINCINNATI, OH, ⁴ FINDLAY FLATS
		Job No: 22042 8/10/2022
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ALE: 1/4" = 1'-0"	ELECTRICAL POWER PLAN - BASEMENT	

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STANDARD MOUNTING HEIGHTS

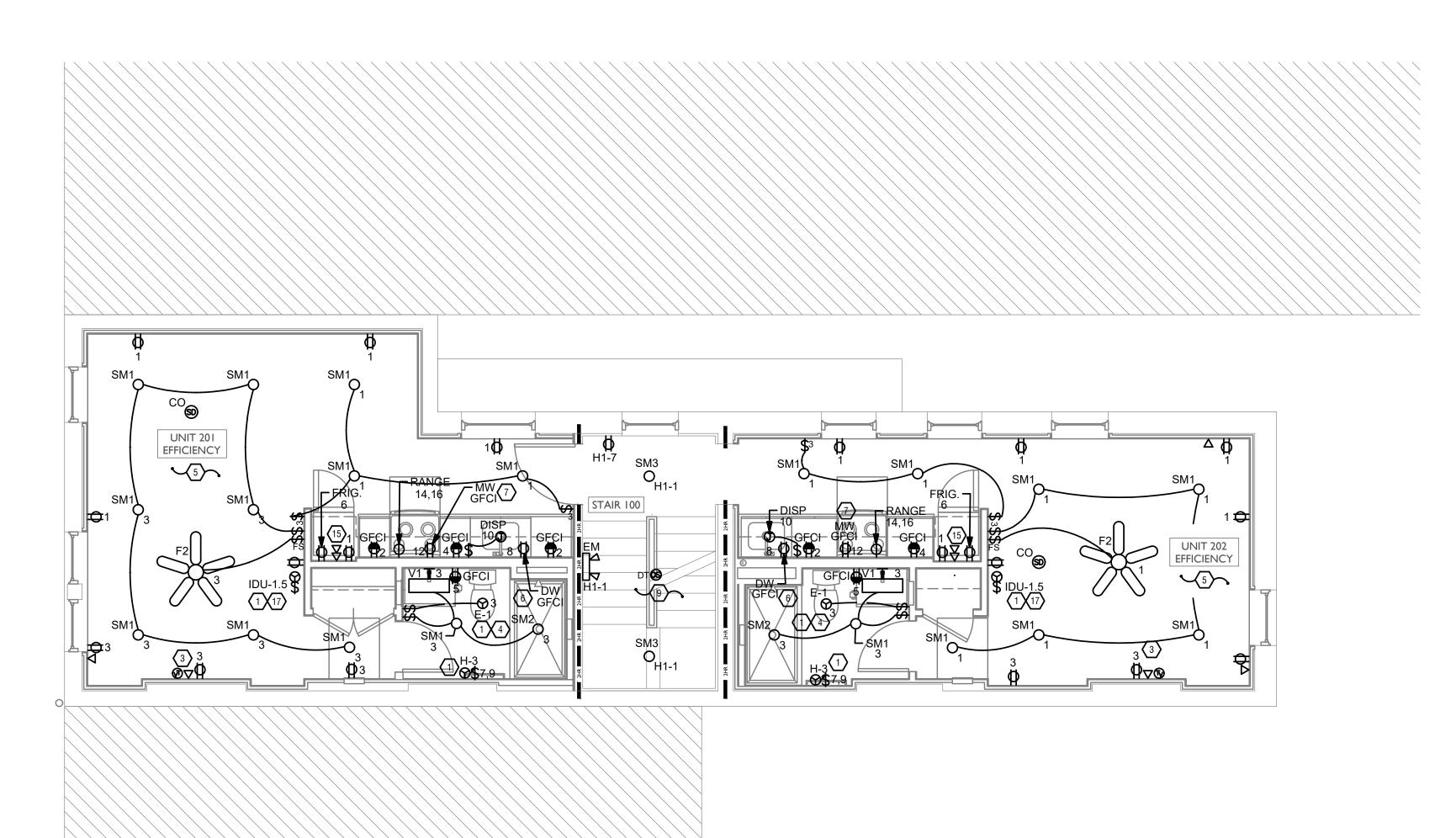
GENERAL NOTES-DWELLING

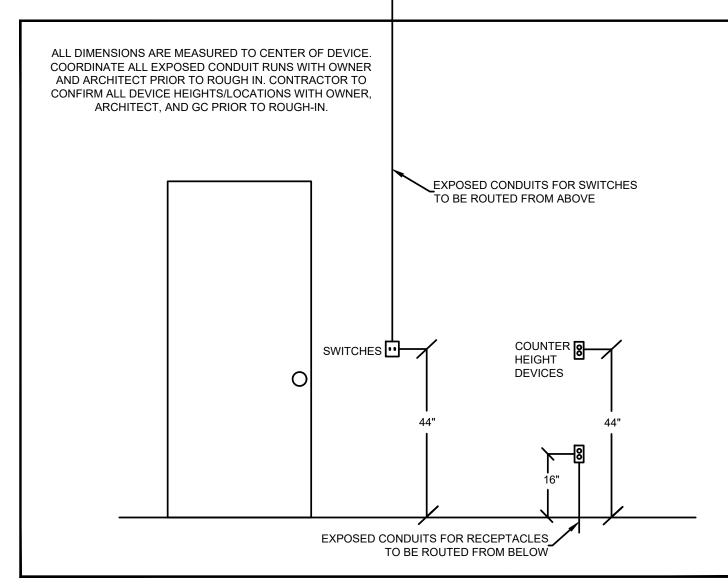
- A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NE PROTECTION MUST BE PROVIDED WHERE EXISTING B IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN AC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS (D) AND NEC 210.12 (D)
- B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIR DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDE COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTA INTERWIRING BETWEEN SMOKE DETECTORS LOCATED SMOKE DETECTORS SHALL BE HARD WIRED WITH BAT ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FUR DESIGN-BUILD BASIS BY THE ELECTRICIAN.
- C. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYI VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR AP
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STANDARD MOUNTING HEIGHTS

GENERAL NOTES-DWELLING

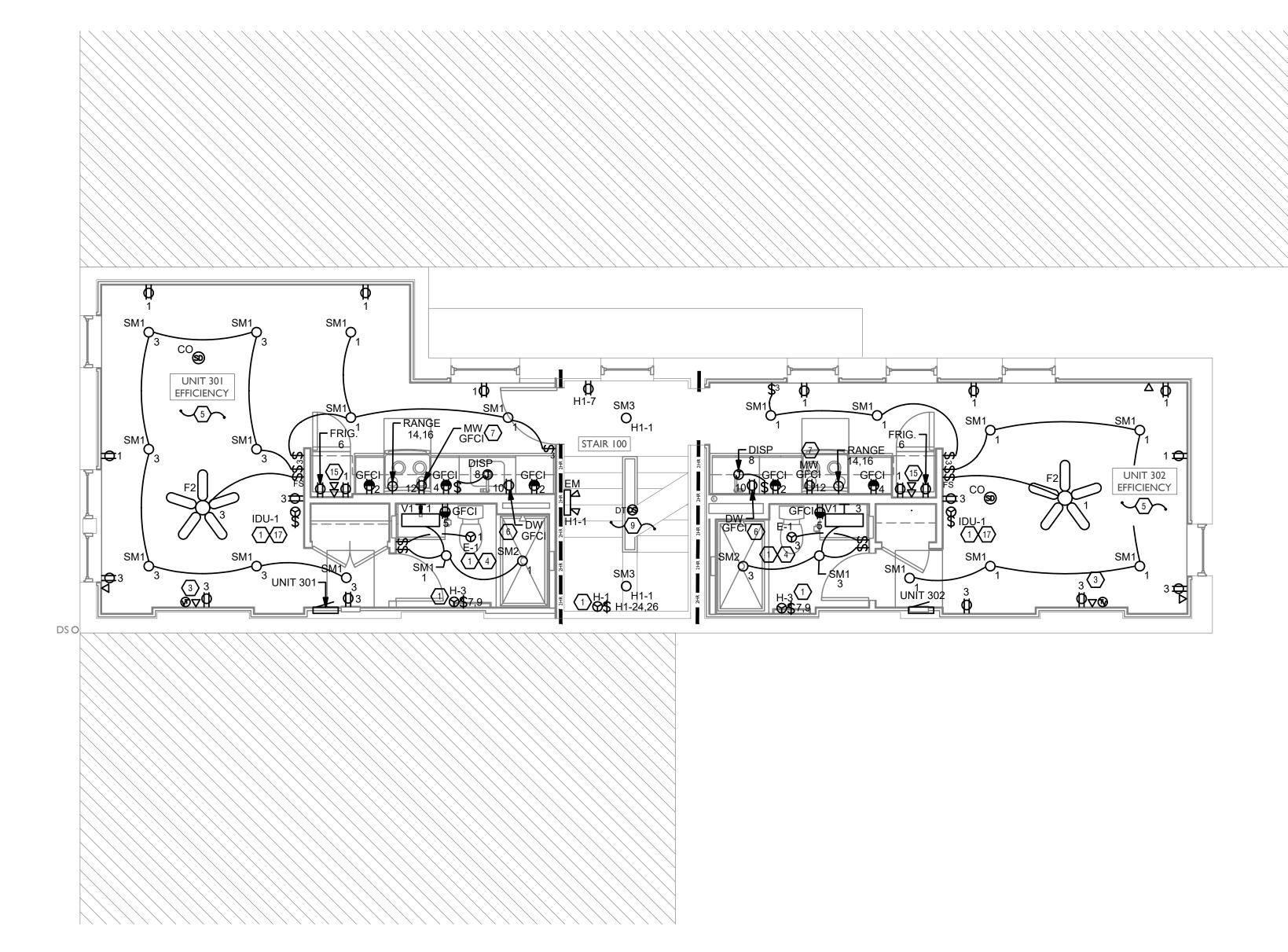
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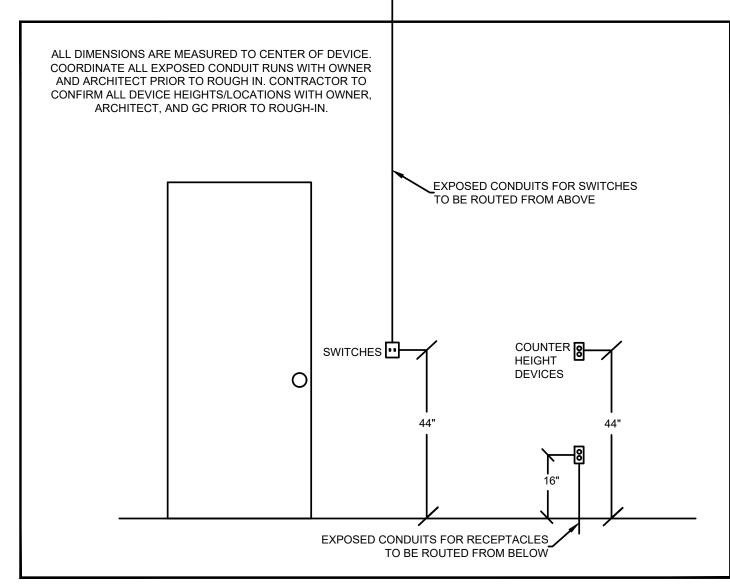
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STANDARD MOUNTING HEIGHTS

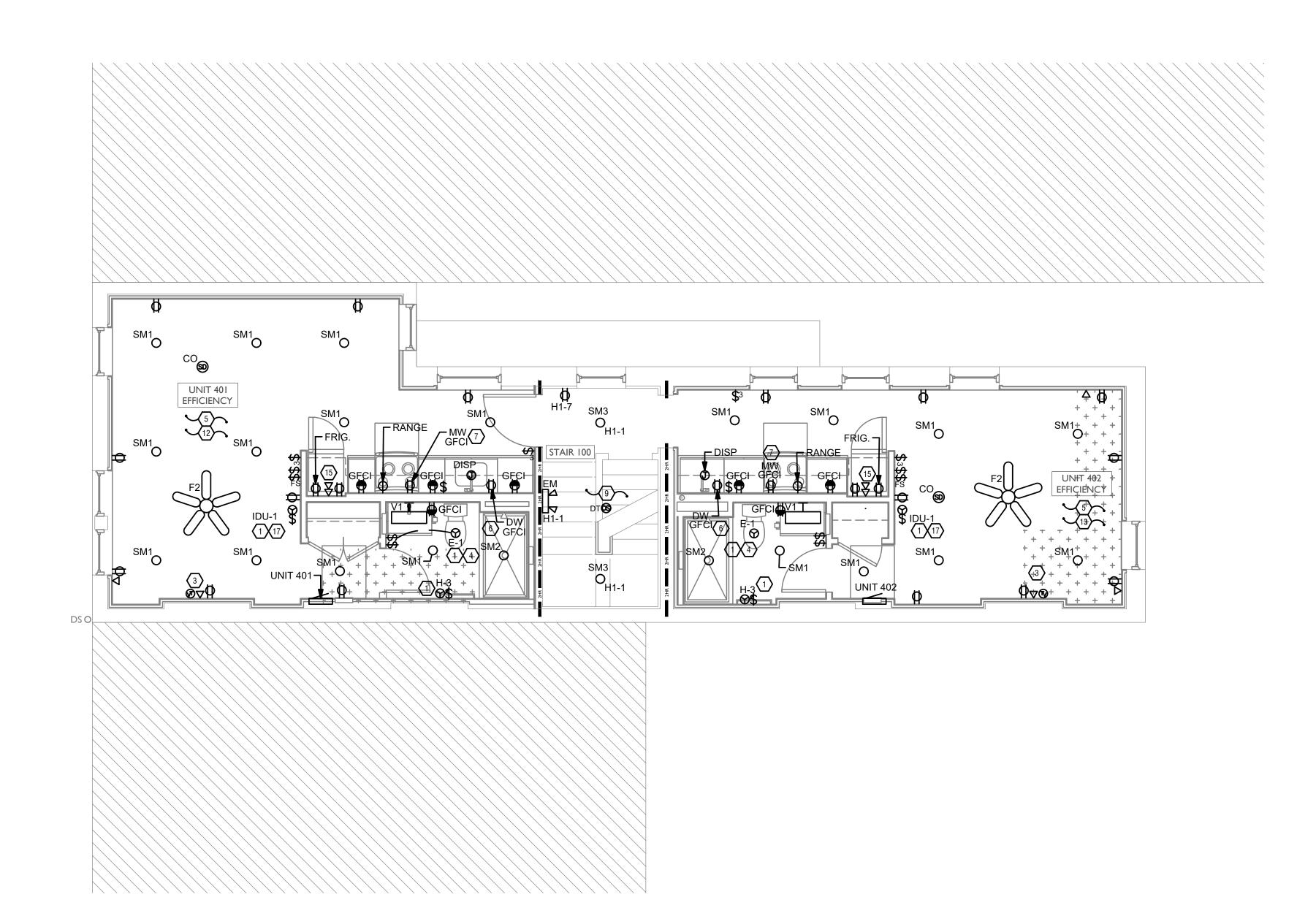
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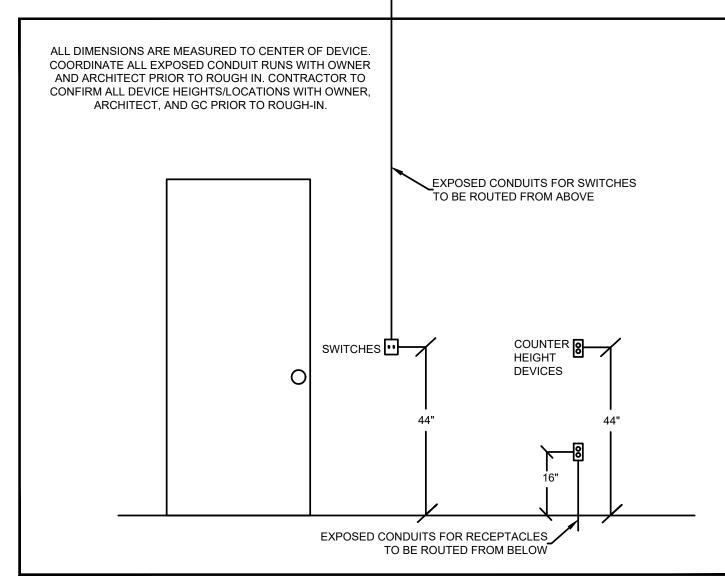
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SINET ABOVE		TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585
TOR. PRIOR TO ROUGH-IN. R UNIT. CONFIRM ALLING CONTRACTOR.		MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSIVE PROPERTY OF ENGINEERED BUILDING SYSTEMS, INC.
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STANDARD MOUNTING HEIGHTS

GENERAL NOTES-DWELLING

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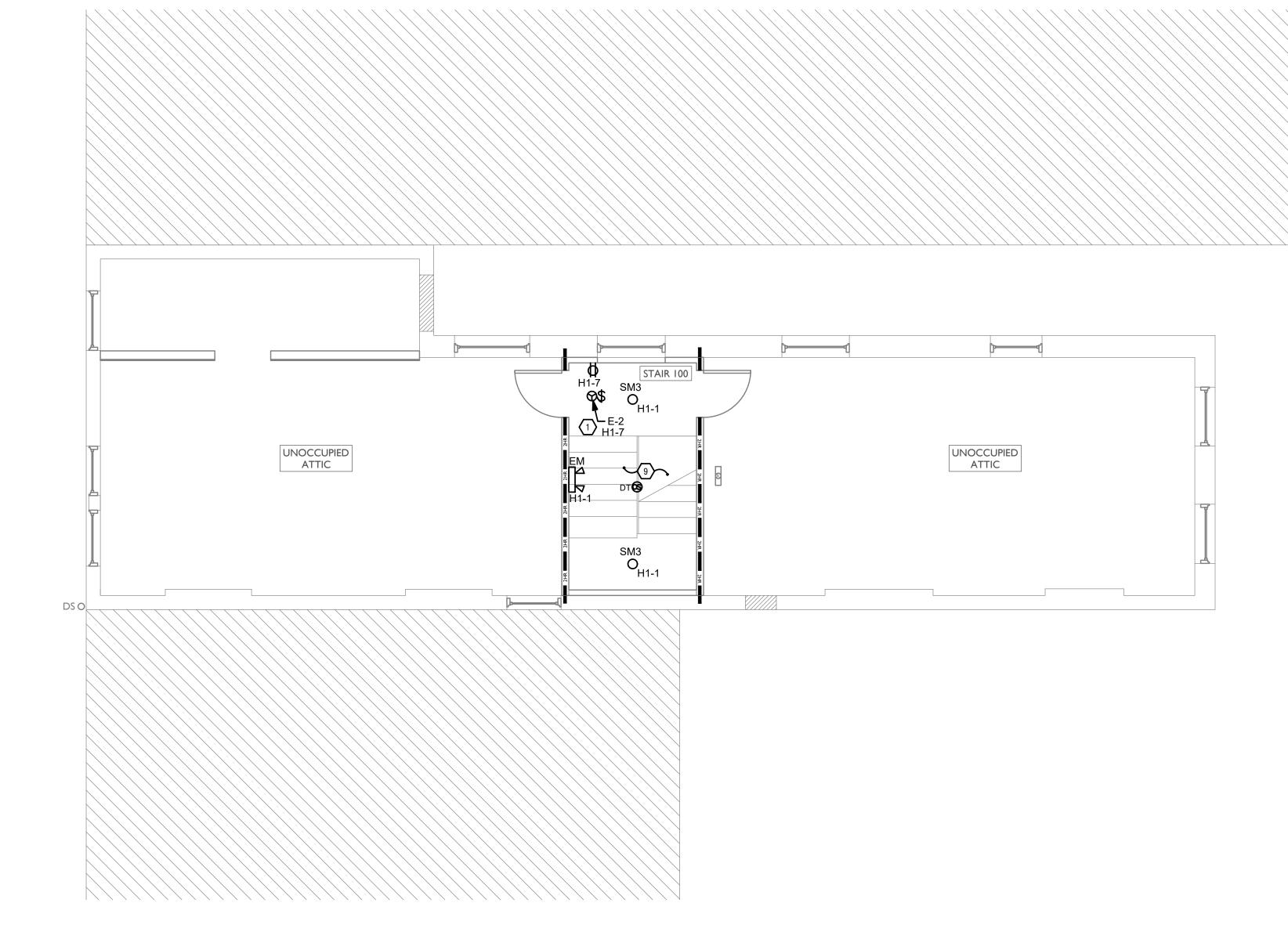
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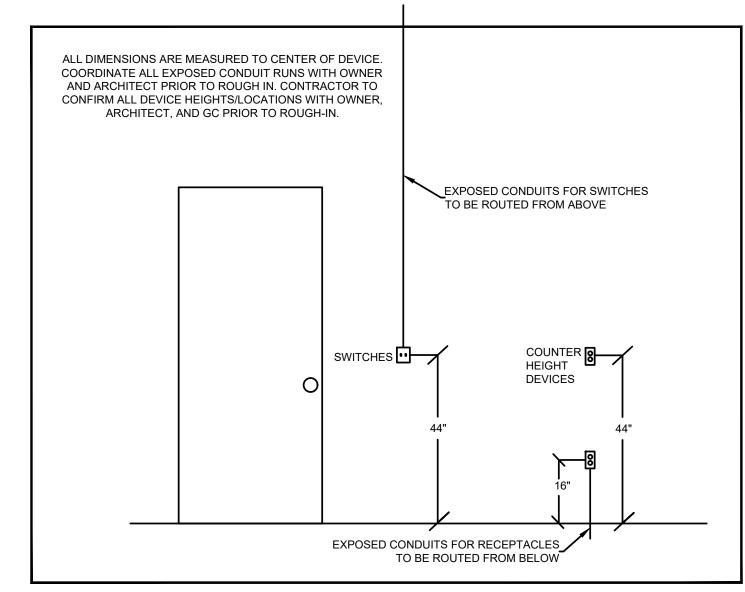
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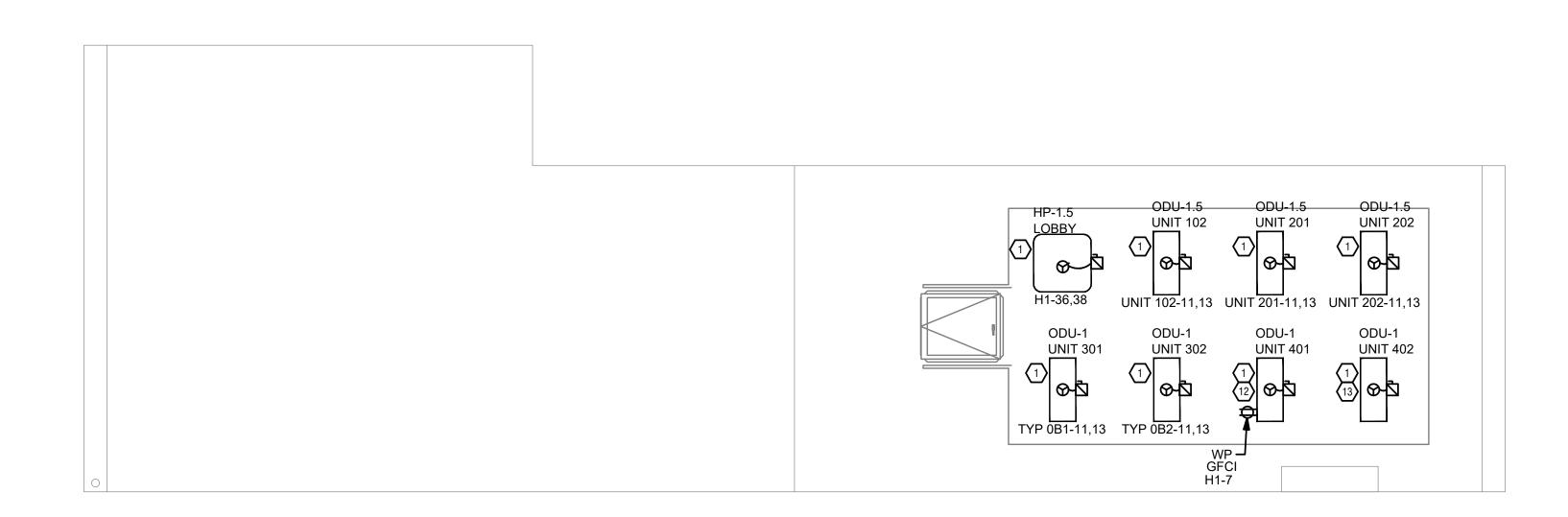
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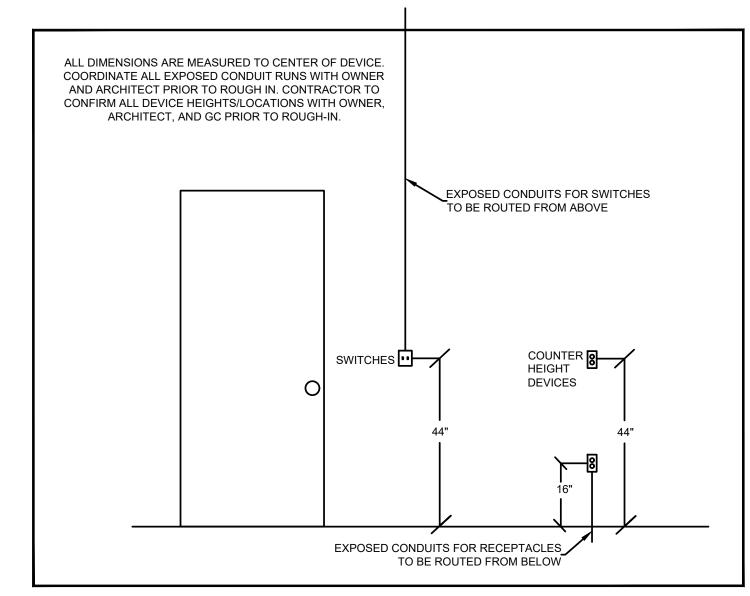
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NECTION. IOR TO ROUGH-IN. CONFIRM		Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015 THIS DOCUMENT IS THE PRODUCT AND EXCLUSI PROPERTY OF ENGINEERED BUILDING SYSTEMS,
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STANDARD MOUNTING HEIGHTS

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- E. PROVIDE CONDUIT AND PULL STRING TO APPROVED LO DATA, AND CATV CABLES. F. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS S
- SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMI DWELLING UNIT LOAD CALCULATIONS G. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PL
- FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRI LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO INTENT, AND DEMONSTRATE GENERAL COMPLIANCE W ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATION ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNIT AS "TYPICAL", ETC. OCCUR, CONTRACTOR, UNDER HIS NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIELD DWELLING UNIT RECEPTACLE SPACING REQUIREMENT WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 1 OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES ART. 406.12

✓ KEYED SHEET NOTES

- 1. MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL BY ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL RE MECHANICAL REQUIREMENTS PRIOR TO ROUGH-IN.
- 2. PLUMBING EQUIPMENT PROVIDED BY PLUMBING CONT ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQU PLUMBING REQUIREMENTS PRIOR TO ROUGH-IN. 3. COORDINATE TV RECEPTACLE AND DATA LOCATIONS V
- ARCHITECT PRIOR TO ROUGH-IN. 4. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUS BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHA
- PRIOR TO ROUGH-IN. 5. PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATT REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST DETECTOR COMBO.
- 6. DISHWASHER MUST BE GFCI PROTECTED PER NEC 210. SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- 7. MICROWAVE RECEPTACLE LOCATED IN CABINET ABOVE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROU
- 8. PROVIDE 120 VOLT DEDICATED CIRCUIT FOR SPRINKLE FLOW SWITCH. COORDINATE LOCATION WITH FIRE PRO CONTRACTOR.
- 9. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANC OTHERWISE NOTED.
- 10. LOCATION OF BUILDING UTILITY DATA DEMARC. PROVID BACKBOARD FOR DATA/PHONE UTILITIES, COORDINATE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PR QUAD RECEPTACLE AS SHOWN. 11. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCATI
- DEVICE WITH OWNER AND ARCHITECT PRIOR TO ROUG 12. UNIT WIRED TO TYPICAL "0B2" REFER TO PANEL SCHEE
- SEE UNIT 301 FOR CIRCUITRY LAYOUT. 13. UNIT WIRED TO TYPICAL "0B1" REFER TO PANEL SCHED
- SEE UNIT 302 FOR CIRCUITRY LAYOUT. 14. COORDINATE LOCATION AND REQUIREMENTS OF BUILD
- OWNER AND ARCHITECT PRIOR TO ROUGH-IN. 15. INSTALL FIOPTIC 4-GANG AND QUAD OUTLET IN CABINE
- REFRIGERATOR AS SHOWN. 16. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT COORDINATE LOCATION WITH PLUMBING CONTRACTOR
- 17. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR U LOCATION AND DISCONNECTING MEANS WITH INSTALLI
- 18. LOCATION OF FUTURE RADON, PROVIDE JUNCTION BO FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

G UNITS	SCOPE OF WORK)Н 452 1.1829
EC 210.12. AFCI RANCH CIRCUIT WIRING CORDANCE WITH NEC . REFER TO NEC 406.4	RENOVATION OF EXISTING BUILDING MULTIFAMILY BUILDING WITH COMMERCIAL FIRST FLOOR. PROVIDE NEW ELECTRICAL DISTRIBUTION, POWER AND LIGHTING. SEE SINGLE LINE DIAGRAM FOR MORE DETAILS.	AATI, O
RED BY CODE. SMOKE	GENERAL NOTES-OVERALL PROJECT	
LS. PROVIDE D IN THE SAME UNIT. TERY BACK-UP. FIRE RNISHED ON A E UNITS, COORDINATE OTHERS WITH SHOP	A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.	CC + Q 00r CIN 513.871.1850
NG THE EQUIPMENT. PLIANCE FOR EACH UNIT		
CATION FOR VOICE,	GENERAL NOTES-LIGHTING	Z 4 1 C
SHOWN TYPICAL FOR MARIES FOR INDIVIDUAL OR TO ROUGH IN. CONVEY DESIGN /ITH CODE. WHERE IS TO BE ITS THAT ARE SHOWN BASE BID, TO MAKE TO MAINTAIN NEC 'S. WHERE ACTUAL ON OF A WALL 8 INCHES OF THE BASE	 A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES. B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING. C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED. D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS. E. ELECTRICAL SWITCHES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN BOXES. 	PTChit archit 202 W. ELDER STREE www.PLATTEDESIG
S AS REQUIRED BY NEC	GENERAL NOTES-POWER	
CONTRACTOR, WIRED EQUIREMENTS WITH TRACTOR, WIRED BY JIREMENTS WITH WITH OWNER AND SLY RUNNING 2-SPEED ANICAL CONTRACTOR TERY BACK-UP AS ST BE A SMOKE/CO 0.8(D) RECEPTACLE (C, COORDINATE OUGH-IN. ER RISER TAMPER AND OTECTION CY SENSOR UNLESS DE A 4'X4'X ² / ^T PLYWOOD E ALL REQUIREMENTS ROVIDE DEDICATED TON OF PHOTOCELL GH-IN. DULE FOR LOAD DATA. DULE FOR LOAD DATA. DULE FOR LOAD DATA. DULE FOR LOAD DATA. DING CALL BOX WITH ET ABOVE	 ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. PROVIDE WOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COLIS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R. ROOF MOUNTED AND OUTDOOR EOUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25 OF EACH PIECE RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED FRONT DROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS WITH THE CONTRACTOR FURNISHING THE EOUIPMENT. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS. RCOTRACTOR TO ROWIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL CONTRACTOR FURNISHING THE EOUIPMENT. REFER TO ARCHITECT'S PLANS AND BLEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDERS INSTALLATION GUIDELINSS WHERE REQUIRED. LECTRICAL RECEPTACLES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THER ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN BOXES. 	<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>
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ELECTRICAL SPECIFICATIONS 1. General Demolition

a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work

- 2. Use of Drawings And Specifications a. EBS drawings and specifications are intended to convey design intent only. All
 - means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational electrical system are the responsibility of the electrical contractor.
- 3. Standards

a. Materials equipment and materials shall conform with appropriate provisions of NEC, ASTM, UL, ETL, NEMA, ANSI, as applicable to each individual unit or assembly.

4. Codes

- a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply. The electrical contractor shall satisfy code requirements as a minimum standard without any extra cost to owner.
- 5. Permits and Fees
- a. The electrical contractor shall procure and pay for all permits, fees and inspections necessary to complete the electrical work.
- 6. Warranty a. The electrical contractor shall unconditionally warrant all work to be free of defects in material and workmanship for a period of one (1) year from the date of final acceptance, and will repair or replace any defective work promptly and without charge and restore any other existing work damaged in the course of repairing defective materials and workmanship.
- 7. Site Examination
- a. The electrical contractor shall thoroughly examine all areas of work where equipment will be installed and shall report any condition that, in his opinion, prevents the proper installation of the electrical work prior to bid. He shall also examine the drawings and specifications of other branches of work making reference to them for details of new or existing building conditions.
- b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
- c. Electrical contractor shall take his own measurements and be responsible for
- d. Access panels are not shown on drawings. During site examination, contractor

shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.

- a. The electrical drawings and specifications convey design intent only. Means and methods, sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project are the responsibility of the electrical contractor.
- b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. Where the electrical contractor is making a connection to equipment/components that are furnished by others, electrical contractor to verify all connection requirements with actual equipment being connected, including but not limited to OCP size, means of disconnect, special connection requirements, or other items indicated on shop drawings, or manufacturer's installation instructions and/or installation diagrams, and furnish all labor and materials required for the installation and operation of the equipment. No allowances will be made for failure to coordinate, after electrical connections have been installed.
- c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
- d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the electrical drawings; use actual building dimensions.
- e. Coordination drawings showing system and component installation layout, routing, details, etc. shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
- a. Electrical contractor to verify installation of metering and utility demarcation equipment with utility provider prior to start of work and furnish and install required items per utility company's installation requirements and/or manuals.

10. Submittals

9. Utility Coordination

8. Contractor Coordination

- submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings. 11. Record Drawing

a. Products installed by the electrical contractor and provided by others must be

- a. The electrical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later. 12. Shop Drawings
- a. Submit to the architect pdf file copies of complete & certified shop drawings, descriptive data, performance data & ratings, diagrams and specifications on all

	CV/MDOL	LAMP	DESCRIPTION	MODEL	INPUT VA	NOTES	
CALLOUT	SYMBOL		DESCRIPTION	MODEL		NOTES	LOCATIONS
EM	l ,	(2) 1W LED	EMERGENCY WALL PACK HIGH CAPACITY	SURE LITES - SEL50	1		
EMW	ю	(1) 15W LED	EMERGENCY WALL PACK	MEZZO - MEZ LED ACEM DB 120/277 CL	15		
EX	¢	(1) 1.31W LED	EXIT FIXTURE	SURE-LITES - APX7R	1.31		
EX/EM	¢	(1) 1.31W LED	COMBINATION EXIT/EMERGENCY FIXTURE	SURE-LITES - APCH7R	1.31		
F1	×	(1) 38W LED/FAN	36" CEILING FAN	HUNTER - 59301	38	FRESH WHITE	LIVING ROOM AND BEDROOM
F2	×	(1) 54W LED	52" CEILING FAN	HUNTER - 51433	54	FRESH WHITE	LIVING ROOM AND BEDROOM
RH1	٩	(1) 0.78W LED	SINGLE REMOTE HEAD	SURE-LITES - APWR1	0.78		
SM1	0	(1) 9.7W LED	4" ROUND SURFACE MOUNT DOWNLIGHT	HALO - SMD4	9.7	WHITE FINISH	GENERAL DOWNLIGHT THROUGHOUT, U.N.O.
SM2	o	(1) 9.7W LED	4" ROUND SURFACE MOUNT DOWNLIGHT - DAMP RATED	HALO - SMD4	9.7	WHITE FINISH	CEILING DOWNLIGHTS IN SHOWERS
SM3	o	(1) 9.7W LED	4" ROUND SURFACE MOUNT DOWNLIGHT	HALO - SMD4	9.7	WHITE FINISH	CEILING DOWNLIGHTS IN CORRIDORS
SM8	0	(1) 31.4W LED	2X2 LED PANEL LIGHT FIXTURE	METALUX - CGT LED PANEL SERIES	31.4		COMMERCIAL FIRST FLOOR ONLY
SM13	0	(1) 9W LED	SURFACE MOUNT ENTRY VESTIBULE LIGHT	EFFECIENT LIGHTING - EL-831-109E26LED-BN	9	POWDER COAT BLACK	STAIR HALL ENTRY VESTIBULE LIGHT - 1ST FLOOR ONLY
ST1		(1) 18W LED	4' LED STRIP LIGHT	METALUX - 4SNLED-LD5-28SL-UNV-L835-CD1-U	18		BASEMENT AND ATTIC ONLY
TL1	<u>5-1-2.</u>	(1) 10.5W LED	TRACK LIGHT - HEAD	HALO - L81208FL9027P L651P	10.5		COMMERCIAL 1ST FLOOR ONLY
V1	Ю	(1) 25W LED	LED VANITY LIGHT	EFFICIENT - EL222L-24	25	BLACK	RESIDENTIAL AND COMMERCIAL BATHROOMS
WM1	ю	(1) 15W LED	EXTERIOR LED LIGHT FIXTURE	LIGMAN LIGHTING USA - UJE-30351 - XX - X - W30 - 01	15	COLOR 01-BLACK RAL 9011	EXTERIOR - DARK SKY COMPLIANT
WM5	ю	(1) 15W LED	EXTERIOR LED LIGHT FIXTURE	STEEL LIGHTING CO - VENICE WALL MOUNT - A09-01- ST11-01-XX-01 (3000K LED LAMP)	15	11" STRAIGHT ARM (VERIFY MOUNTING WITH ARCHITECT)	EXTERIOR - DARK SKY COMPLIANT

lh infoi Fion ma С П П · By \$(++) , AND ARE INTENDEI Y CONTRACTURAL ₽ 5–3:26pm – 1 _E CODES, / : WITH ANY .dwg-EBS. Plot Date/Time: May TE COMPLIANCE WITH AF ARE INSTALLED IN ACCO Z:\~Project Directories\9700–9799\9757 - Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 2 (3 Buildings)\1804 REPUBLIC\9757-THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS US GENERAL CONTRACTOR, ETC. specified equipment, including accessories, and materials for review.

b. The make, model number, type, finish & accessories of all equipment and materials shall be reviewed & approved by the electrical contractor & general contractor prior to submitting to the architect for their review & approval. c. Review of shop drawings does not relieve the electrical contractor/vendor from

compliance with the requirements of the contract drawings, specifications & applicable codes. 13. Testina

a. All electrical systems shall be tested for proper operation. Balance all branch circuit loads between the phases of the system to within 10% of the highest phase load in each panelboard.

14. Temporary Power

- a. The electrical contractor shall provide temporary electrical wiring for construction. The temporary service shall be a minimum of 60 amps, single phase, three wire, 120/208 volts fused at main disconnect. All receptacles on this temporary service shall be protected by a GFI breaker.
- 15. Mechanical Equipment a. All final connections to mechanical equipment shall be done by the electrical contractor.
- 16. Demolition a. The electrical contractor shall be responsible for deenergizing circuits in demolition areas to insure a safe condition. Electrical devices and associated wiring located within the demolition area that will no longer be used shall be removed and properly disposed of at contractor's expense unless otherwise noted
- 17. Power Outages
- a. The electrical contractor shall schedule all electrical system(s) outages with the general contractor and owner at least 24 hours in advance. Unless approved otherwise all outages shall occur between 11:00pm and 5:00am. 18. Grounding and Bonding
- a. Contractor to provide grounding and bonding as required for electrical systems. Grounding and bonding is considered means and methods of construction, and should be completed by the electrical contractor in accordance with NEC 250.
- b. Any gas piping systems must be bonded per utility provider's installation guidelines where required. 19. Materials
- a. Provide all new material and equipment unless noted otherwise. All equipment shall be UL approved and labeled, or other approved testing organization which has acceptance by the local jurisdiction, for the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations. No substitution to materials specified will be allowed unless approved bv the owner.
- b. Electrical contractor shall not order or purchase any materials or equipment until permit drawings have been approved. No allowances will be made for any

- changes that occur if permit drawings have not been approved prior to ordering. 20. Cutting and Fitting
- a. Perform cutting, coring, fitting, repairing and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the owner. Properly fill, seal, fireproof, and waterproof all openings, sleeves, and holes in slabs, walls, and casework.
- 21. Wiring Methods
- a. Provide code approved wiring methods for branch circuiting indoors, such as NM cable (only where permitted by NEC 334), EMT conduit, or MC cable for mechanical equipment, lighting, and power.
- b. Conduit runs on exterior of building shall be rigid steel conduit with weather tight, corrosion-resistant fittings. Schedule 40 PVC is acceptable where permitted by code and or underground runs or concrete encasement where not exposed to physical damage.
- c. The minimum size of conduit shall be 3/4" unless otherwise noted. Conduit connectors shall be double locknut type, UL listed and labeled, with compression or set screw fittings.
- d. Rigid conduit shall be hot dipped galvanized.
- e. Where raceways are installed for others to use, or for future use, provide nylon
- pull string. f. Penetrations through fire rated construction shall be sealed using 3M fire barrier caulk, Nelson Electric Flameseal or T&B Flamesafe or other approved method.
- 22. Conductors and Terminations a. Branch conductors shall be copper, feeders as indicated on riser diagram. Conductors shall be insulated for 600v number 12 AWG minimum. Provide wires and cables as indicated listed and suitable for temperature, conditions, and location where installed.
- 23. Motors and Other Wiring
- a. The electrical contractor shall provide all required conduit, wiring, and safety switches for all motors, and other electrical equipment, even though the motors and electrical equipment may be supplied by others. The electrical contractor shall include all work and connections required to make the system complete and operational. Provide magnetic starters for equipment as indicated on the drawings.
- b. The electrical equipment may include but not be limited to such items as grille motors and interlocks, exterior and interior signage, starting devices, motor controllers, float switches, alarm devices or systems, push buttons, exhaust fans, data systems, intercoms and stereo systems. The electrical contractor shall verify equipment location and sizes with the trade supplying the equipment before installing the conduit or outlets.
- 24. Devices a. Hubbell, Leviton, or approved equal with matching coverplates.
- b. Provide specification grade wiring devices, in types, characteristics, grades, colors, and electrical ratings for applications indicated, which are UL-listed and

which comply with NEMA WD1 and other applicable UL and NEMA standards. Verify color selections with architect. Provide device plates to match device

- c. Provide GFCI protection for all kitchen 15 and 20-amp receptacles. Where the receptacle is rendered inaccessible by equipment provide GFCI protection at the circuit breaker.
- 25. Service entrance and distribution equipment a. Electrical contractor must submit drawings for permit and receive approval prior to ordering equipment. No allowances will be made for equipment changes that occur prior to receipt of approved plans.
- 26. Disconnects and Fused Switches

27. Nameplates

- a. Heavy duty type, horsepower rated with interlocking cover. NEMA 1 typical. Outdoor and wet location switches shall be raintight type NEMA 3Rr. All switches shall be lockable. Fuses in circuits rated at 600 amperes or less shall be UL class RK1 dual-element, time-delay, current limiting fuses. Fuses in circuits rated at 601 amperes or larger shall be UL class I time-delay, current limiting fuses.
- a. Provide permanent nameplate labeling on all disconnects. Include load served, voltage, phase, horsepower, fuse size, and type.
- 28. Mounting a. Mount independent of the mechanical unit housing unless specifically accepted by the local code authority. Provide Unistrut support channels mounted in coordination with roof penetration and patching work. Coordinate with general contractor.
- 29. Grounding and bonding for electrical systems and equipment a. Provide grounding and bonding for electrical service in accordance with NEC article 250.
- b. All major parts not carrying current, including but not limited to, secondary feeder circuit, equipment and panelboard enclosures, pull and junction boxes, shall be properly grounded. Metallic raceways shall utilize double locknuts and other fittings as required to provide ground continuity. 30. Multi-tenant Meter Centers
- a. Provide meter centers(s) as shown on the drawings and as specified herein. Meter centers shall have main lugs only or main breakers as required, and shall have branch breaker installed for each meter socket. Meter centers shall be Eaton, Square D, GE by ABB, or equal, and shall be of the same manufacture as load centers or panelboards served. Meter centers shall be enclosed NEMA 1, NEMA 3R as required. Final configuration (number of meters per section. end-main/center-main, etc. shall be determined by contractor. All bussing must be rated for the loads served. Meter centers shall be rated to withstand the available fault current.
- 31. Panelboards
- a. Provide branch circuit panelboard(s) as shown on the drawings and as specified herein. Panelboards shall have bolted, thermal and magnetic breakers with main

lugs only or main breakers as required. Panelboards shall be Eaton, Square D, GE by ABB, or equal, and be enclosed in NEMA 1 type housing unless noted otherwise. Enclosure(s) shall be complete with a hinged door, cylinder lock, and a neatly typed directory under plastic cover in each panel door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current.

32. Residential Load Centers

a. Provide load centers as shown on drawings and as specified herein. Load centers shall be Eaton, Square D, GE by ABB, or equal. Load centers shall contain a neatly typed directory in each door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current. Load centers may be used in areas other than dwelling units where appropriate and where approved by Owner's representative.

33. Lighting

- a. Provide a new lighting system complete and fully operational and in conformance with code and UL listing requirements. Clean all fixtures at time of job completion utilizing manufacturers approved or recommended cleaning solutions. All fixtures and lamps are provided by this contractor as scheduled unless noted otherwise. Contractor shall furnish all boxes, mounting kits, transformers, controllers, and other components necessary for a complete and fully functional installation.
- b. Where dimmers and/or dimming systems are required, contractor to furnish dimmers that are compatible with fixture source and rated for the wattage of the dimming zone. Provide additional dimmers as required to meet zone load requirements.

34 . Telephone System

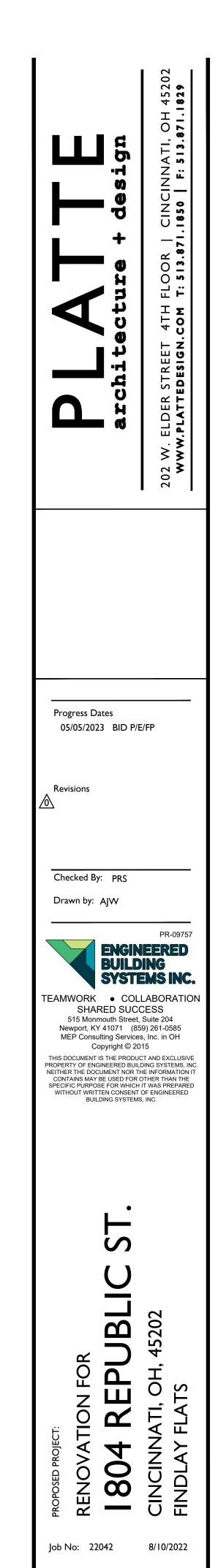
a. Telephone wiring and system provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.

35. Security System Notes

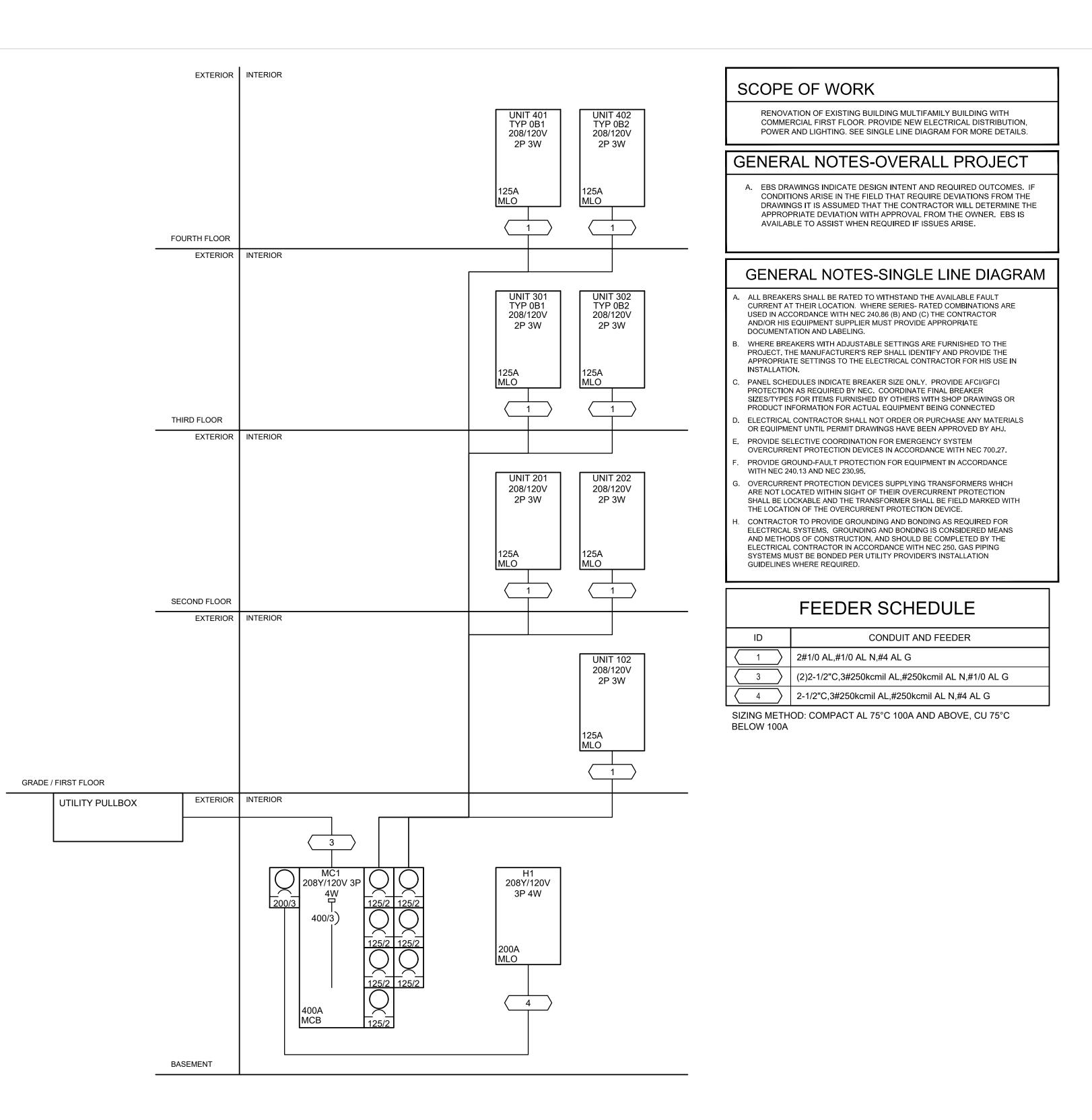
- a. Security wiring and system provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Provide power for owner's head-end equipment and remote power for secure doors as required. 36. Data/Pos/A-V/System Notes
- a. Data, POS and/or A-V wiring and systems provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.

37. Fire Alarm System

a. Fire alarm system to be design-build by contractor. Contractor shall provide all required drawings and submit to authorities. Refer to architect's code sheet for relevant design criteria. Submit drawings to Owner/Architect for review prior to submitting to authorities. Provide required items including but not limited to relay modules, monitor modules, return-air detectors, elevator recall, etc. Provide remote annunciator panel(s) at location(s) approved by Architect and authorities.



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\$ \$ ₃ \$ ₄	SINGLE POLE LIGHT SW THREE WAY LIGHT SWIT	ТСН	*SEE LIGHT FIXT L5-20R Φ L6-20R Φ L5-30R Φ	URE SCHEDULE FOR FIXTURE TYPES. LOCKING 125V/20 AMP - RECEPTACLE LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE LOCKING 125V/30 AMP - RECEPTACLE	J1, OH 4520
\$□	DIMMER SWITCH		L6-30RΦ	LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE	
\$гs © рт	FAN SPEED CONTROL		PP		
0	OCC SENSOR - CEILING			FURNITURE RECESSED FLOOR FEED FURNITURE WALL FEED	
\$дт	OCC SENSOR - WALL - I		FB	RECESSED FLOOR BOX - MULTI-SERVICE (POWER/DATA)	
\$pir	OCC SENSOR - WALL - F		VA	RECESSED FLOOR BOX - MULTI-SERVICE W/AV	
	OCC SENSOR POWER P		Ø	RECESSED MULTI-SERVICE POKE THRU	
Φ	DUPLEX RECEPTACLE			SPECIAL CONNECTION	
USB 🗭	DUPLEX RECEPTACLE V		Φ	SIMPLEX RECEPTACLE	
₽ ₽	COUNTER HEIGHT DUPI	LEX RECEPTACLE	Ø ¢		
	COUNTER HEIGHT QUA	D RECEPTACLE	\$м С	MANUAL MOTOR STARTER	
	CEILING (SHOW WINDO	W) RECEPTACLE		FUSED DISCONNECT	
	DUPLEX - GFCI RECEPT		× ×	FUSED DISCONNECT W/MAGNETIC MOTOR STARTER	
GFCI 🕈	SPLIT-WIRED (SWITCHE	LEX - GFCI RECEPTACLE		JUNCTION BOX HOME NETWORK ENCLOSURE	₹ 2 ₹ 4 •
	WEATHER PROOF - GFC	CI RECEPTACLE		SECURITY CAMERA	20
	DISHWASHER - GFCI RE	CEPTECLE	∇	DATA LOCATION (RING & STRING, U.N.O)	
disp.♥ ™♥	GARBAGE DISPOSAL MICROWAVE RECEPTAD	CLE	▼ ▽		
	REFRIGERATOR RECEP		¥ ®	VOICE/DATA DROP - LOCATION CABLE TV (COAX) - LOCATION	
$ANGE \Phi$	RANGE - 208-240V/ 1-PH	ASE 50 AMP RECEPTACLE	CR	CARD READER	
wash GFCI∯ RYER∳	WASHER - GFCI RECEP	TACLE ASE 30 AMP RECEPTACLE	DR	DOOR RELEASE - ACCESS CONTROL	
	STACKED WASHER/DRY	′ER - 208-240V/	DS ML	DOOR STRIKE - ACCESS CONTROL MAG-LOCK - ACCESS CONTROL	
à	1-PHASE 30 AMP RECEPT		PS	POSITION SWITCH	
Ð	DUPLEX - RECESSED FL		PR	PROXY READER	
U E	PANELBOARD			REQUEST TO EXIT SWITCH WIRELESS INTERNET ACCESS POINT	
			WAP 🛄 9	DOOR HOLD - FIRE ALARM	Progress Dates 05/05/2023 BID P/E/FP
	PANELBOARD W/ B SINGLE LINE DIAG	BUS (MCB OR MLO) - RAM	DSD	DUCT SMOKE DETECTOR	
35			FABP FACP		
3£ 32		SINGLE LINE DIAGRAM	FARA		Revisions
<u>الا</u>	TRANSFORMER W SINGLE LINE DIAG		FS	SPRINKLER FLOW SWITCH	
-	PADMOUNT TRAN	SEORMER -	Э Ш	HEAT DETECTOR - FIRE ALARM HORN - FIRE ALARM	
	SINGLE LINE DIAG	RAM		HORN/STROBE - FIRE ALARM	Checked By: PRS
°to	SINGLE LINE DIAG	ISFER SWITCH (ATS) - RAM	PIV	POST INDICATOR VALVE - (PIV)	Drawn by: AJW
		ENCY GENERATOR -	PRE-A	PRE-ACTION PANEL PRESSURE SWITCH	
	SINGLE LINE DIAG	RAM	F	PULL STATION - FIRE ALARM	PR-0975 ENGINEERED
	* METER BASE - S	INGLE LINE DIAGRAM	59	SMOKE DAMPER	BUILDING SYSTEMS INC
/ H	FUSED DISCONNE	CT - SINGLE LINE DIAGRAM	ତ୍ତ co ତା	SMOKE DETECTOR COMBINATION SMOKE/CO2 DETECTOR	TEAMWORK • COLLABORATIO
			90 00 90	SPEAKER - FIRE ALARM	SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585
	_		Ø	SPEAKER/STROBE - FIRE ALARM	MEP Consulting Services, Inc. in OH Copyright © 2015
	* CT CABINET - SIN	NGLE LINE DIAGRAM	X	STROBE - FIRE ALARM	THIS DOCUMENT IS THE PRODUCT AND EXCLUSIV PROPERTY OF ENGINEERED BUILDING SYSTEMS, I NEITHER THE DOCUMENT NOR THE INFORMATION
	* FINAL METER CC	NFIGURATION TBD/ APPRO	VED BY LOCAL UTIL	ITY COMPANY PRIOR TO CONSTRUCTION.	CONTAINS MAY BE USED FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARE WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC.
		HP Heat Pump		EXAMPLES:	
k NumberΩ OhmΦ Phase		HZ Hertz IG Isolated Ground IMC Intermediate Metal	Conduit		
A Amperes	s ng Current	KCMIL Thousand Circular KVA Kilovolt-Amperes		- SWITCH GROUP	
VC Air Cond AFCI Arc Faul	itioning t Current Interrupter	LFMC Liquid Tight Metal C LTG Lighitng		a 3 FUNCTION	
	Interrupting Capacity	LRA Locked Rotor Ampe MC Metal Clad Cable			
	ic Transfer Switch	MCB Main Circuit Breake MCC Motor Control Cente		(SEE SCHEDULE)	
	ic Temperature Control n Wire Gauge	MLO Main Lug Only NC Normally Closed NEC National Electrical () odo	A1 a SWITCH	
CATV Cable Te		NEC National Electrical NEMA National Electrical NEMA National Electrical N	/lanufactures Associa	tion P1-23	
C/B Circuit B CKT Circuit		NL Night Lighting (Egreen NO Normally Open		PANEL-CIRCUIT	
CT Current	Circuit Television Fransformer	NTS Not To Scale P Pole			4520°
CU Condens CO Direct C	urrent	PNL Panel	ic Button or Pull Box	WEATHER PROOF PANEL NAME AND CIRCUIT NUMBER	
DIA Diamete C Electrica F Exhaust	Contractor	PWR Power QTY Quantity REQ Required		GFCI GFCI GFCI GFCI GFCI	S OF, A
ELEV Elevator		REQ Required RMC Rigid Metal Conduit RNC Rigid Non-Metallic (GROUND FAULT PROTECTED ISOLATED GROUND	
EMT Electrica	l Metallic Tubing Icy Power Off	RTU Roof Top Unit ST Shunt Trip	Jonaan		proposed project: RENOVATION 1804 RE CINCINNATI, C
WC Electric	Vater Cooler Vater Heater	SW Switch TSTAT Thermostat			
A Fire Alar AA Fire Alar	m m Annuciator	TYP Typical UG Underground			PROPOSED PROJECT: RENOVATI 1804 CINCINNA FINDLAY F
	l Amperes Metal Conduit	UL Underwriters Labra UNO Unless Noted Other	•		
		V Volt			
GF Gas Fur GFCI Ground	Fault Current Interrupter	VA Volt-Amperes			
GF Gas Fur GFCI Ground GND Ground GWH Gas Wa	Fault Current Interrupter er Heater f-Automatic Switch	VA Volt-Amperes W Watt or Wire WP Weather Proof XFMR Transformer			Job No: 22042 8/10/2022

EZ.U

	1											
M FE	DOM DUNTING D FROM DTE	FLUSH MC1			VOLTS BUS AN NEUTRA	MPS 2	00	′ 3P 4W			AIC T.B.D . MAIN BKR LUGS STA	MLO
CKT #	CKT BKR	LOAD KVA	CIRCUI	T DESCRI	PTION		CKT #	CKT BKR	LOAD KVA	CIRC	CUIT DESC	RIPTION
1 3 5 7 9 11 13 15 17 19 21 23 25	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.363 0.36 1.08 1 0.5 1 0.96 0.96 1 1.2 0.25 0	LIGHTIN RECEPT RECEPT E-2, R (SR) SI MONITO DH-1 SPACE (DE-1) (DE-1) DH-1 ESP1 FUTURE SPACE	G ACLE	LE RISER STEM DIFIER		2 2 4 6 5 6 10 12 14 5 16 5 18 20 5 22 5 24 2 6	20/1 20/1 20/1 30/2 30/2 30/2 30/2 20/2 	1.5 1.5 1.5 4.75 4.75 4.75 4.5 2	WAS WAS DRY DRY DRY EWH	SHER SHER ER ER	
27 29 31 33 35 37 39 41	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0 0 0 0 0 0 0	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE				 28 30 32 34 36 38 40 42 	20/2 60/2 20/2 20/1 20/1	2 9.9 2.45 0.25 0	H-1 AHU HP- HWR SPA	-1.5 -1.5 P	
A LA	GHTING PPLIANCE ARGEST MOTOR OTORS	0 2	CONN KVA .363 .25 .45 .55	CALC KVA 0.453 0.25 0.614 1.55	(125%) (100%) (25%) (100%)		CON NON HEA COC TOT BAL LO PH, PH,	EPTACLE ITINUOUS ICONTINU TING DLING AL LOAD ANCED 3-I AD ASE A ASE B ASE C	K S 2.34 4.5 OUS 21.2 18.4 2.45	2 I	CALC KVA 2.34 5.63 21.2 18.4 0 50.4 140 A 112% 110% 78.1%	(50%>10) (125%) (100%) (100%) (0%)

	NTING FLUSH FROM UTILITY	PULLBOX	BUS	TS 208Y AMPS 4 TRAL 100	00	P 4W			AIC T.B.D. Main BKR 4 4 Lugs stand		
СКТ	BREAKER				L	OAD KV	A				
#	TRIP/POLES	CIRCUIT DESCRIP	ΓΙΟΝ		А	В	С	FEEDER R	ACEWAY AND CO	NDUCTORS	
1 2 4 5 6 7 8	200/3 125/2 125/2 125/2 125/2 125/2 125/2 125/2 125/2	PANEL H1 UNIT 102 UNIT 201 UNIT 202 UNIT 301 – TYP UNIT 302 – TYP UNIT 401 – TYP UNIT 402 – TYP	0B1 0B2		18 14.1 12.6 12.8 12.1	17.7 12.9 13.8 12.1 12.8 12.1	12.8 15.1 12.5 12.8 12.1 12.8	2#1/0 A 2#1/0 A 2#1/0 A 2#1/0 A 2#1/0 A 2#1/0 A	C,3#250kcmil A L,#1/0 AL N,# L,#1/0 AL N,# L,#1/0 AL N,# L,#1/0 AL N,# L,#1/0 AL N,# L,#1/0 AL N,#	4 AL G 4 AL G 4 AL G 4 AL G 4 AL G 4 AL G	AL N,#4 AL C
		TOTAL CONNE	CTED KVA B	Y PHASE	69.5	81.4	78				
OPTI	ONAL MULTIFAM	ILY DWELLING CALC	ULATION (NEC	220.84)							
				I	DWELLIN	G UNIT L	OADS				
			KVA							KVA	
LIGI	HTING AND RECI	EPTACLES	7.56	- 2,519 SF (3 VA/SF)		CONNECTED LOAD				175	
APF ELE	ALL-APPLIANCE PLIANCES CTRIC COOKING FORS	3	21 61.3 59.5 2	()		DEM	LLING UI AND FAC CULATED	TOR		7 (44%) 76.9	
	TING		23.5	(100%)							
COC	DLING		20.2	(0%)							
					HOU	SE LOAD	S				
		CONN KVA	CALC KVA						CONN KVA	CALC KVA	
LAR MO ⁻	HTING GEST MOTOR FORS	0.363 2.45 1.55	0.453 0.614 1.55	(125%) (25%) (100%)		NON HEA	TINUOUS CONTINU TING		4.5 21.2 18.4	5.63 21.2 18.4	(125%) (100%) (100%)
REC	EPTACLES	2.34	2.34	(50%>10)		COC	LING		2.45	0	(0%)
						TOT	AL HOUS	E LOAD		50.1	
					TOT)				
			KVA	-						KVA	
	AL DWELLING U		76.9				AL LOAD			127	
TOT	AL HOUSE LOAD)	50.1			BAL/	ANCED 3-	-PHASE LO	AD	353 A	

TVD AR1		TYP 0B1 UNIT 302	5
I I I I ROOM VOLTS 203 MOUNTING FLUSH BUS AMPS FED FROM NEUTRAL NOTE NOTE		UNIT 402 • MLO	OH 452
CKT CKT LOAD CIRCUIT DESCRIPTION 1 15/1 0.983 E-1, LIGHTING, RECEPTACLE 3 15/1 0.842 LIGHTING, RECEPTACLE 5 20/1 0.18 BATH 7 20/2 0.3 H-3 9	CKTCKTCKTLOADCIRCUIT DESCa220/11.5SMALL APPLIAb420/11.5SMALL APPLIAa615/10.5FRIG.b815/10.75DISPOSALa1015/11.2DISHWASHERb1220/11.8MICROWAVEa1450/28.5RANGEb16IIa1820/10SPACEb2020/10SPACEa2220/10SPACEb2420/10SPACEb2820/10SPACEa3020/10SPACEa3020/10SPACE	NCE	Chitecture + designation R STREET 4TH FLOOR CINCINNA
OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82) CONN KVA LIGHTING AND RECEPTACLES SMALL-APPLIANCE SMALL-APPLIANCE ELECTRIC COOKING MOTORS 0.25 TOTAL GENERAL LOAD 21.7 APPLIANCE BREAKDOWN	CONN KVACALC KVAGENERAL LOAD UP TO 10 KVA1010OVER 10 KVA1010OVER 10 KVA11.74.68MAX HEATING OR COOLING2.28TOTAL LOAD17BALANCED LOAD81.5 APHASE A PHASE B97.2%103%	Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	KVA 21.70 2.38 24.08 24.08
TYPEKVAREFRIGERATOR0.5DISHWASHER1.2MICROWAVE1.8DISPOSAL0.75MATER HEATER4.5	HVAC Load Calculation Heating Cooling Mini Split 100% of Nameplate Rating of AC and Cooling Nameplate Rating of Heat Pump w/o Supplmental Heat Heat Pump plus 65% of Supplemental Heat Largest Heating or Cooling Load	KVA NEC Code 2.38 - 2.08 - 0.00 - 2.08 220.82 C(1) at 0.00 220.82 C(2) 2.38 220.82 C(3) 2.38 220.84 C(5)	Progress Dates 05/05/2023 BID P/E/FP
MOUNTINGFLUSHBUS AMPSFEDFROMNEUTRAL		MLO	Revisions
NOTE CKT CKT LOAD CIRCUIT DESCRIPTION 1 15/1 1.02 LIGHTING, RECEPTACLE 3 15/1 0.774 E1, LIGHTING, RECEPTACLE 5 20/1 0.18 BATH 7 20/2 0.3 H-3 9 I Image: constraint of the state	CKTCKTECKTLOADCIRCUIT DESCa220/11.5SMALL APPLIAb420/11.5SMALL APPLIAa615/10.5FRIG.b815/10.75DISPOSALa1015/11.2DISHWASHERb1220/11.8MICROWAVEa1450/28.5RANGEb16IIa1820/10SPACEb2020/10SPACEb2420/10SPACEb2820/10SPACEa3020/10SPACEa3020/10SPACE	NCE	Checked By: PRS Drawn by: AjtX PR-09757 Suppression Constraints Description Constant Statements Description Constant Statements Description
OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82) CONN KVA LIGHTING AND RECEPTACLES SMALL-APPLIANCE SMAL	CONN CALC KVA KVA GENERAL LOAD 10 UP TO 10 KVA 10 OVER 10 KVA 11.5 MAX HEATING OR 2.28 TOTAL LOAD 16.9 BALANCED LOAD 81.1 A PHASE A 97.6% PHASE B 102% HVAC Load Calculation Heating Cooling Mini Split 100% of Nameplate Rating of AC and Cooling Nameplate Rating of Heat Pump w/o Supplmental Heat Heating or Cooling Load	KVA NEC Code 2.38	PROPOSED PROJECT: PROPOSED PROJECT: RENOVATION FOR RENOVATION FOR TORNATION 45202 FINDLAY FLATS FINDLAY FLATS

	OE	31						TYP 0B1 UNIT 302 UNIT 402		5202
ROOM MOUNTING FED FROM NOTE	FLUSH	В	OLTS 208/ US AMPS IEUTRAL 10			AIC T.B.D. MAIN BKR I LUGS STANI				н н н н н н н н н н н н н н н н н н н
KT CKT BKR 1 15/1 3 15/1 5 20/1 7 20/2 9 1 15/2 3 3 1 5 30/2 7 1 9 15/1 11 20/1 3 20/1 7 1 9 15/1 10 20/1 3 20/1 3 20/1 4 20/1	0.983 0.842 0.18 0.3 2.08 4.5 0.25 0 0 0 0 0	CIRCUIT DESCRIPTIONE E-1, LIGHTING, RECO LIGHTING, RECEPTACE BATH H-3 ODU-1 EWH HWRP SPACE SPACE SPACE SPACE SPACE SPACE SPACE	EPTACLE	CKT CKT # BKR a 2 20/1 b 4 20/1 a 6 15/1 b 8 15/1 a 10 15/1 b 12 20/1 a 14 50/2 b 16 a 18 20/1 b 20 20/1 b 20 20/1 b 20 20/1 b 20 20/1 a 22 20/1 b 24 20/1 a 26 20/1 b 28 20/1 a 30 20/1	LOAD KVA 1.5 1.5 0.5 0.75 1.2 1.8 8.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CIRCUIT DESCRI SMALL APPLIANO SMALL APPLIANO FRIG. DISPOSAL DISHWASHER MICROWAVE RANGE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	CE			Chitecture + design street 4TH FLOOR CINCINNATI,
DPTIONAL DV LIGHTING A RECEPTAG SMALL-APP APPLIANCE ELECTRIC C MOTORS TOTAL GEN	.ND CLES LIANCE S COOKING	1.2 (3 3 8.75 8.5 0.25	C 220.82) 01 SF 3 VA/SF)	GENERAL LOA UP TO 10 K OVER 10 K MAX HEATING COOLING TOTAL LOAD BALANCED LO PHASE A	.D VA 10 /A 11. ⁷ OR	7 4.68 2.28 17 81.5 A 97.2%	(100%) (40%) (220.82(C)(3))	Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84	KVA 21.70 2.38	BF 202 W. ELDER
APP TYPE REFRIGERATOR	LIANCE BRE	AKDOWN KVA 0.5		PHASE B HVAC Loa He	d Calculati eating	103% on	KVA NEC Code 2.38	220.84 CONNECTED LOAD CALC	24.08	
ISHWASHER ICROWAVE ISPOSAL /ATER HEATER OW WATER RE OTAL	2	1.2 1.8 0.75 4.5	100% of N	Mir 00% of Nameplate F	Heat Pump 6 of Supple	w/o Supplmental Heat	2.08 0.00 2.08 220.82 C(1) 0.00 220.82 C(2) 2.28 220.82 C(3) 2.38 220.84 C(5)			Progress Dates
										05/05/2023 BID P/E/FP
TYP	OE	32						TYP 0B2 UNIT 301 UNIT 401		Revisions
ROOM MOUNTING FED FROM NOTE	FLUSH	В	US AMPS EUTRAL 10			AIC T.B.D. MAIN BKR I LUGS STANI				Checked By: PRS
	1									
15/1 3 15/1 3 10/1 7 20/2 9 1 15/2 3 3 1 5 30/2 7 1 9 15/1 11 20/1 12 30/2 13 20/1 14 20/1 15 20/1 15 20/1 15 20/1	1.02 0.774 0.18 0.3 2.08 4.5 0.25 0 0 0	CIRCUIT DESCRIPTION LIGHTING, RECEPTACE E-1, LIGHTING, RECO BATH H-3 ODU-1 EWH HWRP SPACE SPACE SPACE SPACE SPACE SPACE	CLE EPTACLE	CKT CKT # BKR a 2 20/1 b 4 20/1 a 6 15/1 b 8 15/1 a 10 15/1 b 12 20/1 a 14 50/2 b 16 a 18 20/1 b 20 20/1 a 22 20/1 b 24 20/1 b 26 20/1 b 28 20/1 a 30 20/1	LOAD KVA 1.5 1.5 0.75 1.2 1.8 8.5 0 0 0 0 0 0 0 0 0	CIRCUIT DESCRI SMALL APPLIANO SMALL APPLIANO FRIG. DISPOSAL DISHWASHER MICROWAVE RANGE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	CE			Reversed by Pros Drawn by: AJW Prove Prov
1 $15/1$ 3 $15/1$ 5 $20/1$ 7 $20/2$ 9 $15/2$ 3 $ $ 5 $30/2$ 7 $ $ 9 $15/1$ 20/1 $30/2$ 7 $ $ 9 $15/1$ 20/1 $30/2$ 9 $20/1$ 9 $20/1$ 9 $20/1$	KVA 1.02 0.774 0.18 0.3 2.08 4.5 0.25 0 0 0 0 0 0 0	LIGHTING, RECEPTAC E-1, LIGHTING, REC BATH H-3 ODU-1 EWH HWRP SPACE SPACE SPACE SPACE SPACE	CLE EPTACLE	a 2 20/1 b 4 20/1 a 6 15/1 b 8 15/1 a 10 15/1 b 12 20/1 a 14 50/2 b 16 a 18 20/1 b 20 20/1 b 20 20/1 a 22 20/1 b 24 20/1 a 26 20/1 b 28 20/1	KVA 1.5 1.5 0.75 1.2 1.8 8.5 0 0 0 0 0 0 0 0 0 0 0 0 0	SMALL APPLIANO SMALL APPLIANO FRIG. DISPOSAL DISHWASHER MICROWAVE RANGE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	CE			PR PR PR PR PR PR PR PR PR PR
3 15/1 5 20/1 7 20/2 9 1 15/2 3 5 30/2 7 9 15/1 21 20/1 25 20/1 26 20/1 27 9 15/1 20 1 20 1 20 20/1 20 20/1	KVA 1.02 0.774 0.18 0.3 2.08 4.5 0.25 0 0 0 0 0 0 0 0 0 0 0 0 0	LIGHTING, RECEPTAC E-1, LIGHTING, REC BATH H-3 ODU-1 EWH HWRP SPACE SPAC	CLE EPTACLE	a 2 20/1 b 4 20/1 a 6 15/1 b 8 15/1 a 10 15/1 b 12 20/1 a 14 50/2 b 16 a 18 20/1 b 20 20/1 b 20 20/1 a 22 20/1 b 24 20/1 a 26 20/1 b 28 20/1	KVA 1.5 1.5 0.5 0.75 1.2 1.8 8.5 0 0 0 0 0 0 0 0 0 0 0 0 0	SMALL APPLIANO SMALL APPLIANO FRIG. DISPOSAL DISHWASHER MICROWAVE RANGE SPACE	CE	Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	KVA 21.49 2.38 23.87	PR PR PR PR PR PR PR PR PR PR

Meter Cen	ter Brea	kdown (MC)
220.84 Multi-Family Calculation	KVA	Qty	Total KVA
UNIT 102	26.94	1	26.94
UNIT 201	25.95	1	25.95
UNIT 202	25.74	1	25.74
TYP 0B1	24.08	2	48.17
TYP 0B2	23.87	2	47.73
Total Quantity and Connecte	ed Load =	7	174.53



8/10/2022

Job No: 22042

	JNIT	- 1	02												
MC FE	DOM DUNTING D FROM DTE	FLUSH MC1			BUS	TS 208 AMPS TRAL 1	12	5	2P 3W	,	AIC T.B.D. MAIN BKR MLO LUGS STANDARD				
CKT #	CKT BKR	LOAD KVA	CIRCUIT		⊃TION			CKT #	CKT BKR		LOAD KVA		UIT DESCR		1
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	15/1 15/1 20/1 20/1 20/1 30/2 30/2 15/1 20/1 20/1 20/1 20/1 20/1	1.02 0.774 0.18 1.5 0 3.95 4.5 0.25 0 0 0 0 0 0	LIGHTIN	G, RECEP GHTING, F	TACLE		а р а р а р а р а р а р а р а р а р а р	2 4 6 10 12 14 16 18 20 22 24 26 28	20/1 20/1 15/1 15/1 15/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20		1.5 1.5 0.5 0.75 1.2 1.8 8.5 0 0 0 0 0 0 0 0 0 0 0	SMAL SMAL FRIG. DISP(DISH)	L APPLIAN L APPLIAN DSAL WASHER OWAVE SE SE SE SE SE SE SE	CE	-
OP'	TIONAL DV	VELLING I	UNIT CAL	CULATION CONN KVA	(NEC 2	220.82)							CALC KVA		
SI Al EI M	GHTING A RECEPTAO MALL-APP PPLIANCE LECTRIC C OTORS OTAL GEN	CLES LIANCE S COOKING	٨D	0.987 3 8.75 8.5 0.25 21.5	329 ((3 VA			U MAX CC TOT BAL	IERAL L IP TO 10 IVER 10 I HEATIN OOLING AL LOAI ANCED ASE A ASE B) KV KV/ NG (D) A 10 A 11.5 DR		10 4.59 4.93 19.5 93.9 A 93.1% 107%	(100% (40%) (220.8) 2(C)(3))
	APP	LIANCE BRI	Eakdown						HVAC L	.oad	Calculatio	n		KVA	NEC Cod
TYPE				KVA						Hea	iting			5.45	
	EFRIGERATOR 0.5 ISHWASHER 1.2				Cooling						3.95				
	DISHWASHER 1.2 MICROWAVE 1.8								Mini	Split			0.00		
	MICROWAVE 1.8 DISPOSAL 0.75					100	% of I			ating of AC	and Co	olina	3.95	220.82 C(
	ER HEATER			4.5							-		plmental Heat	_	220.82 C(
HOW	VWATER RE	CIRC PUM	P	0.25					-				-		
TOT	4L			9.00			не				of Supplei		теа	4.93	220.82 C(
	JIAL 9.00					Largest Heating or Cooling Load 5.45							220.84 C(

# BKR KV/ 1 15/1 1.02	C1 CAD VA 02 414 18 95 C 5 E 25 F S S S S S S S S S S S S S	DIRCUIT DESCR JGHTING, RECE E-1, LIGHTING, BATH 1-3 DDU-1.5 EWH IWRP SPACE SPACE	PTACLE	12 1005 a b a b a b a b a b a b a b a b a b a	2 CKT # 2 4 6 8 10 12 14 16	CKT BKR 20/1 20/1 15/1 15/1 15/1 20/1	LOAD KVA 1.5 1.5 0.5 1.2 0.75 1.8	CIRC SMAI SMAI FRIG DISH DISH	LL APPLIAN 5.	IDARD			
# BKR KV/ 1 15/1 1.02 3 15/1 0.4 5 20/1 0.12 7 20/2 0.3 9 1 11 30/2 3.9 13 1 15 30/2 4.5 17 1 19 15/1 0.2 21 20/1 0 23 20/1 0 25 20/1 0 27 20/1 0	VA (02 L 414 E 18 E 3 H 95 (5 E 25 H	LIGHTING, RECE 1, LIGHTING, BATH 1-3 DDU-1.5 EWH IWRP SPACE SPACE	PTACLE	р ар ар ар ар	2 4 6 8 10 12 14 16	20/1 20/1 15/1 15/1 15/1 20/1	KVA 1.5 1.5 0.5 1.2 0.75	SMAI SMAI FRIG DISH DISP	LL APPLIAN LL APPLIAN	CE			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02 L 414 E 18 E 3 H 95 C 5 E 25 H	LIGHTING, RECE 1, LIGHTING, BATH 1-3 DDU-1.5 EWH IWRP SPACE SPACE	PTACLE	р ар ар ар ар	2 4 6 8 10 12 14 16	20/1 20/1 15/1 15/1 15/1 20/1	1.5 1.5 0.5 1.2 0.75	SMAI SMAI FRIG DISH DISP	LL APPLIAN LL APPLIAN	CE			
1530/24.51710.21915/10.22120/102320/102520/102720/10	.25 H S	IWRP SPACE SPACE		b	16	15072	1.5 SMALL APPLIANCE0.5 FRIG.1.2 DISHWASHER0.75 DISPOSAL					· · ·	
		SPACE SPACE SPACE		20 22 24 26 28	 20/1	8.5 0 0 0 0 0 0	SPAC SPAC SPAC SPAC SPAC SPAC	CE CE CE CE CE					
OPTIONAL DWELLI	LING UN	NIT CALCULATION CONN KVA	N (NEC 220.82)		1	1		DNN VA	CALC KVA				
APPLIANCES	LIGHTING AND RECEPTACLES SMALL-APPLIANCE 3 329 SF (3 VA/SF)					IERAL LOA JP TO 10 K\ OVER 10 KV (HEATING OOLING	/A 10 10 A 11.5 4.59		4.59	(100%) (40%) (220.82(C)(3))			
MOTORS TOTAL GENERAL						ANCED LOA ASE A	AD		18.7 90.1 A 96% 104%			Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	KVA 21.49 4.25 25.74
APPLIANC	ICE BREA					HVAC Load	Calculatio	on		KVA	NEC Code		
TYPE REFRIGERATOR		KVA 0.5	-			He	ating			4.25			
DISHWASHER		1.2	1 L			Co	oling			3.95			
/ICROWAVE		1.8	1			Min	i Split			0.00			
DISPOSAL		0.75]	100	% of N	Nameplate R	ating of AC	and Co	ooling	3.95	220.82 C(1)		
WATER HEATER		4.5	100% (•	-		pplmental Heat		220.82 C(2)		
HOW WATER RECIRC	CPUMP	0.25			-			-					
TOTAL		9.00	」 ├───	96			% of Supplemental Heat 4.15 220.82 C(3) ng or Cooling Load 4.25 220.84 C(5)						

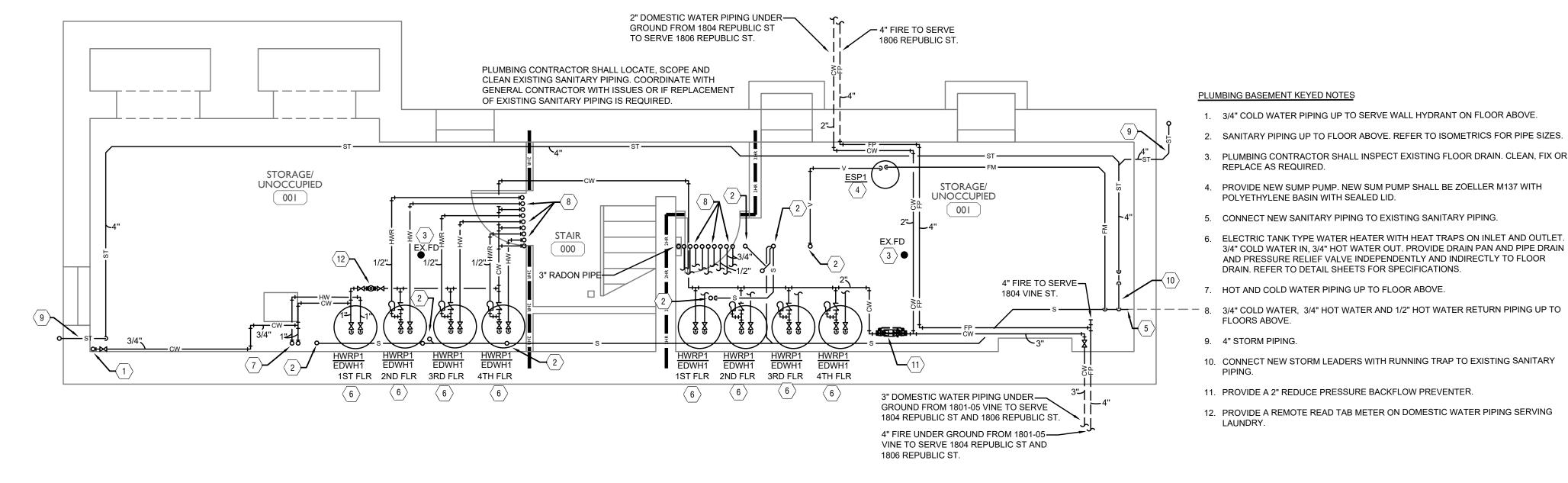
		ROOM MOUNTIN FED FRO NOTE	<u>Т 2</u> ^{G FLUSH м мс1}	.01	VOLTS 2 BUS AMI NEUTRAL	IPS 1	25	2P 3W			AIC T.B.D. MAIN BKR LUGS STAN				
		ROTE CKT CKT BKR 1 15/1 3 15/1 5 20/1 7 20/2 9 11 30/2 13 15 30/2 17 19 15/1 21 20/1 23 20/1 25 20/1 27 20/1 29 20/1	3.95	CIRCUIT DESCR LIGHTING, RECE E-1, LIGHTING, BATH H-3 ODU-1.5 EWH HWRP SPACE SPACE SPACE SPACE SPACE SPACE SPACE	PTACLE	LE	a 2 b 4 c 6 b 8 d 10 b 12 d 14 b 16 d 18 b 20 d 22 b 24 d 26 b 28	CKT BKR 20/1 20/1 15/1 15/1 15/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20	LOAD KVA 1.5 1.5 0.5 1.2 0.75 1.8 8.5 0 0 0 0 0 0 0 0 0 0	SM SM FRI DIS DIS MIC RAI SP SP SP SP	CUIT DESCR ALL APPLIAN ALL APPLIAN G. SHWASHER SPOSAL CROWAVE NGE ACE ACE ACE ACE ACE ACE ACE ACE	ICE	1		
a mily Dwelling Unit Calc Datal General Load ating or Cooling Load 220.84 ONNECTED LOAD CALC	KVA 21.49 5.45 26.94	LIGHTING RECEP SMALL-A APPLIAN ELECTRI MOTORS	G AND TACLES PPLIANCE CES C COOKING	0.25	N (NEC 220.82 		U MAX CC TOT BAL PH	JERAL LO JP TO 10 M OVER 10 K (HEATING OOLING TAL LOAD ANCED LO ASE A ASE B	AD XVA 10 VA 11 GOR		CALC KVA 10 4.68 4.15 18.8 90.5 A 94.8% 105%	(100% (40%) (220.8) 2(C)(3))	Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	
	20.34	TYPE REFRIGERAT DISHWASHE MICROWAVE DISPOSAL WATER HEAT	R	KVA 0.5 1.2 1.8 0.75 4.5	5 5 5)% of Na	amepla Ieat Pu	H C Mi Nameplate	Heat Pum % of Suppl	AC and p w/o S lement	Supplmental Hea al Heat	t 0.00 4.15	NEC Code	220.04 CONNECTED LOAD CALC	25.95

		Multi-Family Dwelling Unit Calc	KVA
		Total General Load	21.49
		Largest Heating or Cooling Load 220.84	5.45
		220.84 CONNECTED LOAD CALC	26.94
XΑ	NEC Code		
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.93	220.82 C(3)		
.45	220.84 C(5)		
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PLATA architecture + design	202 W. ELDER STREET 4TH FLOOR CINCINNATI, OH 45202 www.plattedesign.com t: 513.871.1850 F: 513.871.1829
BUILDI	PR-09757 EERED NG INC. ABORATION ESS Suite 204 0) 261-0585 Inc. in OH 5 r AND EXCLUSIVE ING SYSTEMS, INC. EINFORMATION IT THER THAN THE VAS PREPARED F ENGINEERED
Prover Project: RENOVATION FOR Jop No. 57042	CINCINNATI, OH, 45202 FINDLAY FLATS

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<i></i> &	BALANCING VALVE							
COO	CLEANOUT							
WH H	FROST PROOF WALL HYDRANT							
(#)	VENT THROUGH ROOF RISER INDICATOR							
G	HOT WATER RETURN PUMP							

1. 3/4" COLD WATER PIPING UP TO SERVE WALL HYDRANT ON FLOOR ABOVE.

3. PLUMBING CONTRACTOR SHALL INSPECT EXISTING FLOOR DRAIN. CLEAN, FIX OR

4. PROVIDE NEW SUMP PUMP. NEW SUM PUMP SHALL BE ZOELLER M137 WITH

5. CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING.

6. ELECTRIC TANK TYPE WATER HEATER WITH HEAT TRAPS ON INLET AND OUTLET. 3/4" COLD WATER IN, 3/4" HOT WATER OUT. PROVIDE DRAIN PAN AND PIPE DRAIN AND PRESSURE RELIEF VALVE INDEPENDENTLY AND INDIRECTLY TO FLOOR DRAIN. REFER TO DETAIL SHEETS FOR SPECIFICATIONS.

7. HOT AND COLD WATER PIPING UP TO FLOOR ABOVE.

3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP TO

10. CONNECT NEW STORM LEADERS WITH RUNNING TRAP TO EXISTING SANITARY

11. PROVIDE A 2" REDUCE PRESSURE BACKFLOW PREVENTER.

12. PROVIDE A REMOTE READ TAB METER ON DOMESTIC WATER PIPING SERVING



Checked By: SSS Drawn by: DAG PR-09757 ENGINEERED BUILDING SYSTEMS INC.

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Progress Dates

Revisions

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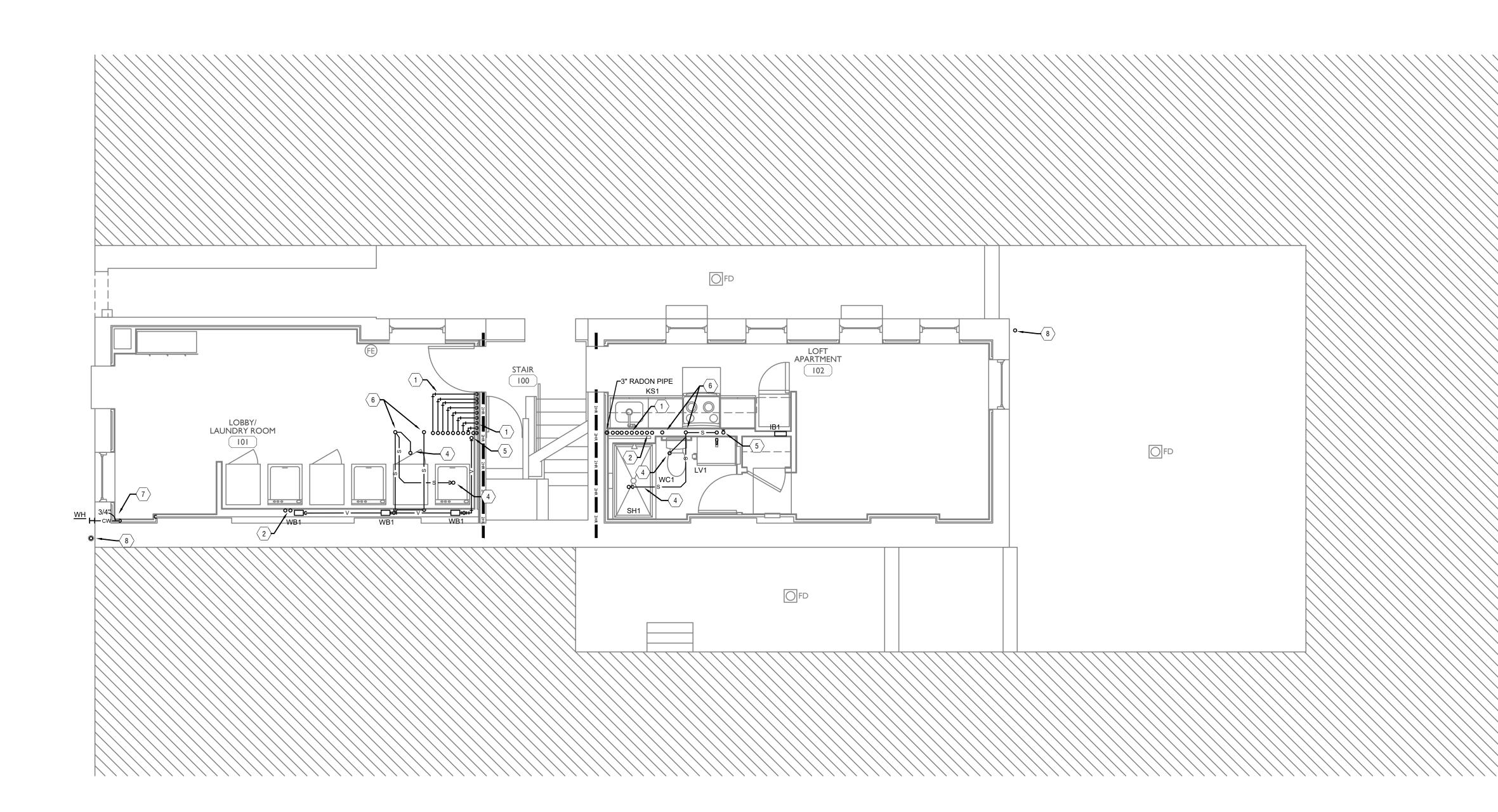
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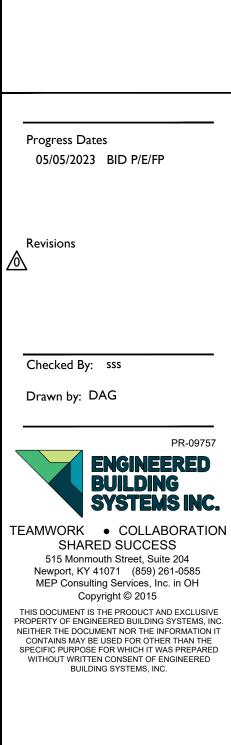


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WH H	FROST PROOF WALL HYDRANT							
(#)	VENT THROUGH ROOF RISER INDICATOR							
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- 1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND DOWN.
- 3/4" HOT AND COLD WATER ROUTED THROUGH WALL TO SERVE PLUMBING FIXTURES. 1/2" COLD WATER TO WATER CLOSET AND VALVE BOX, 1/2" HOT AND COLD WATER TO LAVATORY, SHOWER AND KITCHEN SINK. EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 1" HOT AND COLD WATER PIPING UP FROM FLOOR BELOW. ROUTE 1/2" HOT AND " COLD WATER PIPING TO EACH WASHER BOX.
- 4. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 5. VENT PIPING UP TO FLOOR ABOVE.
- 6. STACK WASTE VENT PIPING UP AND DOWN
- 7. 3/4" COLD WATER PIPING UP FROM FLOOR BELOW TO WALL HYDRANT.
- PROVIDE A 4" DOWNSPOUT CONNECTION AND ROUTE INTO BUILDING AND DOWN TO BASEMENT.

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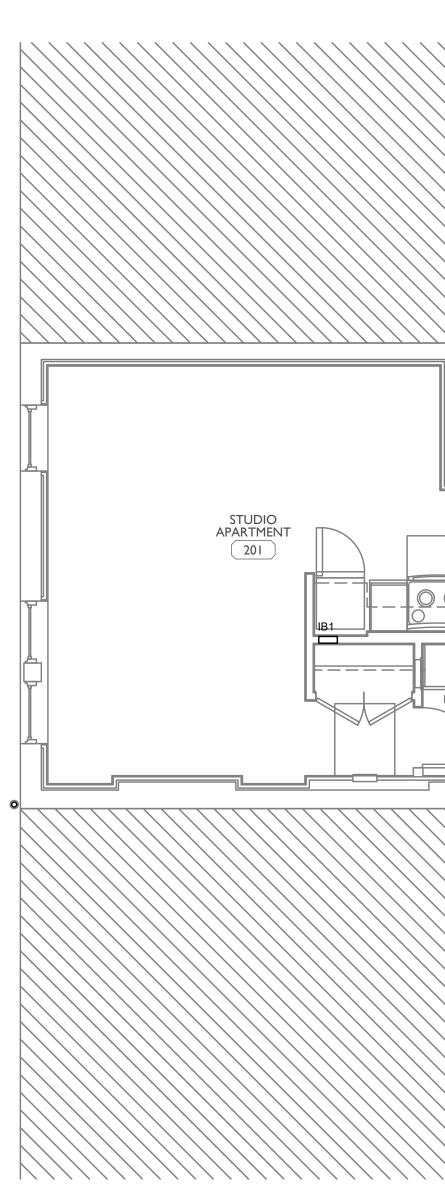
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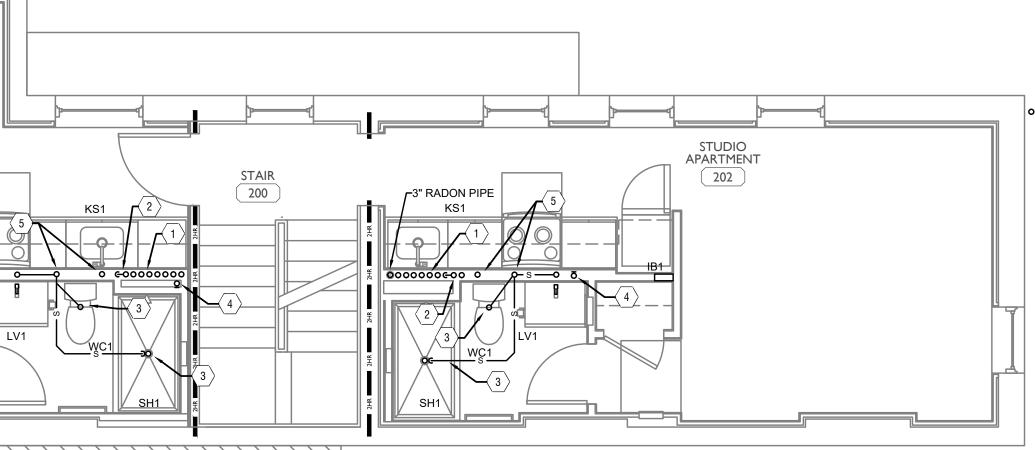
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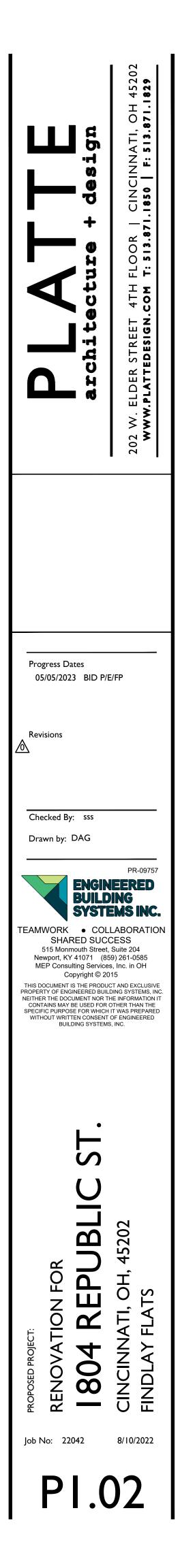




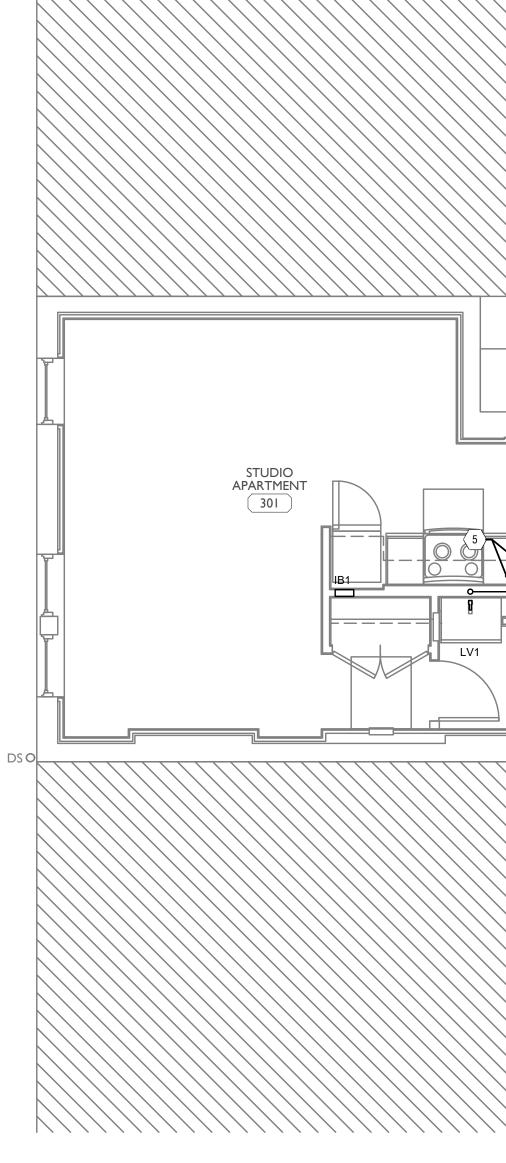
PLUMBING SECOND FLOOR KEYED NOTES

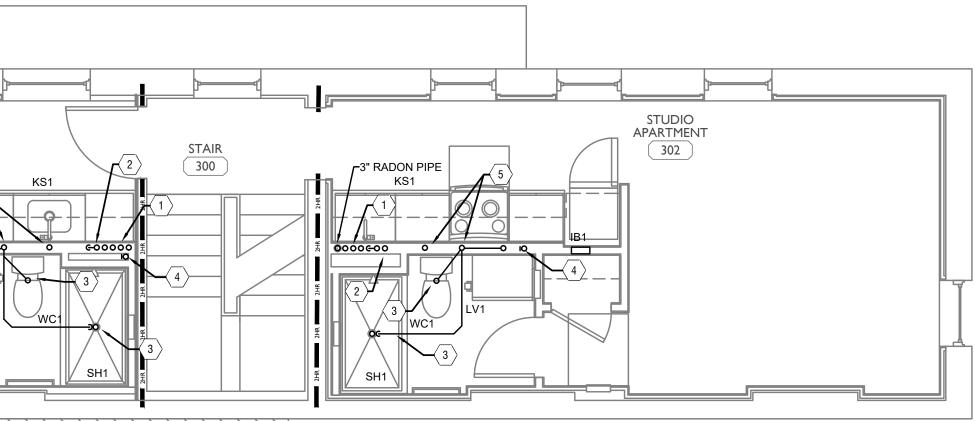
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- 4. VENT PIPING UP AND DOWN.
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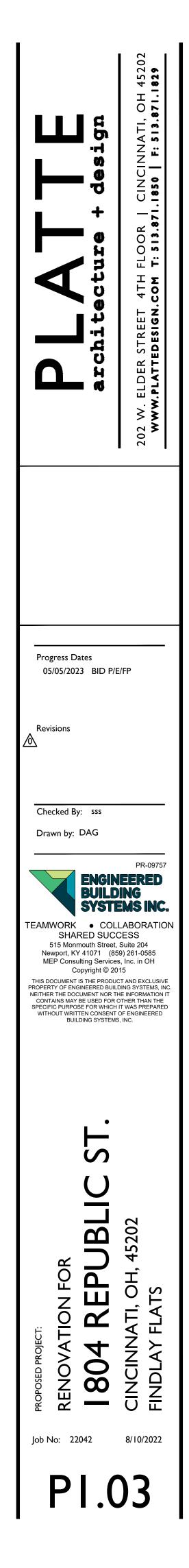


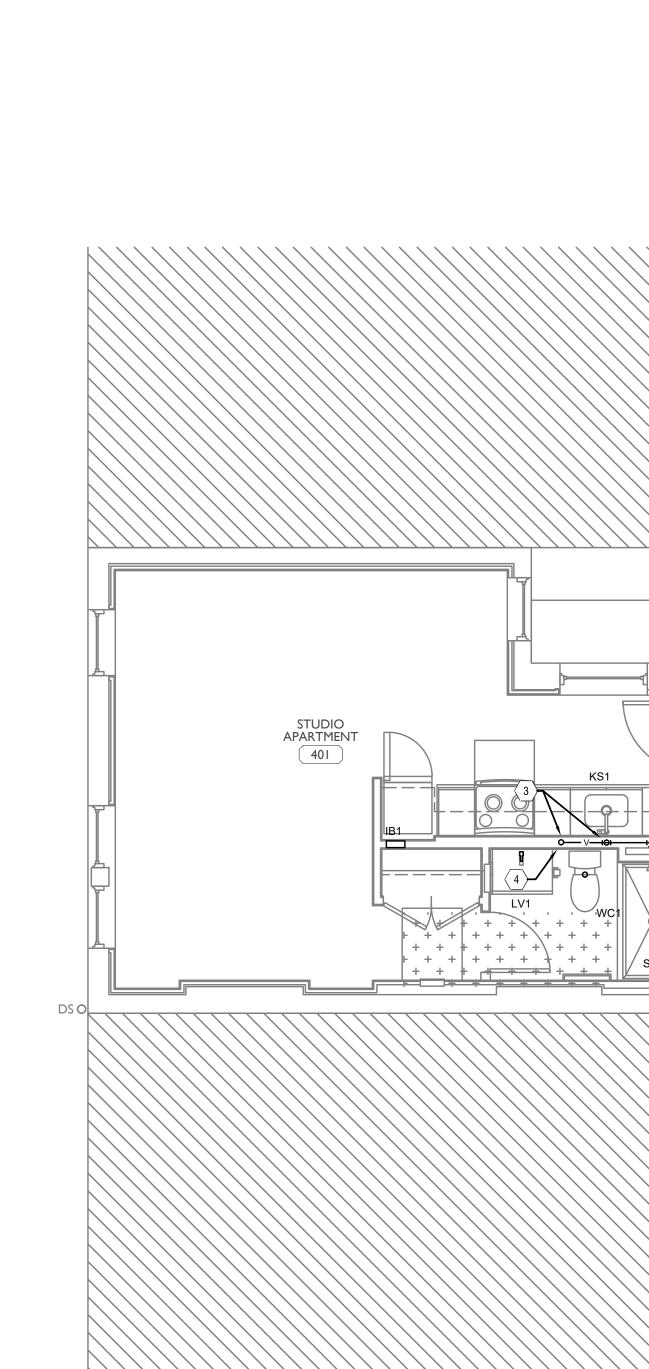
PLUMBING SECOND FLOOR KEYED NOTES

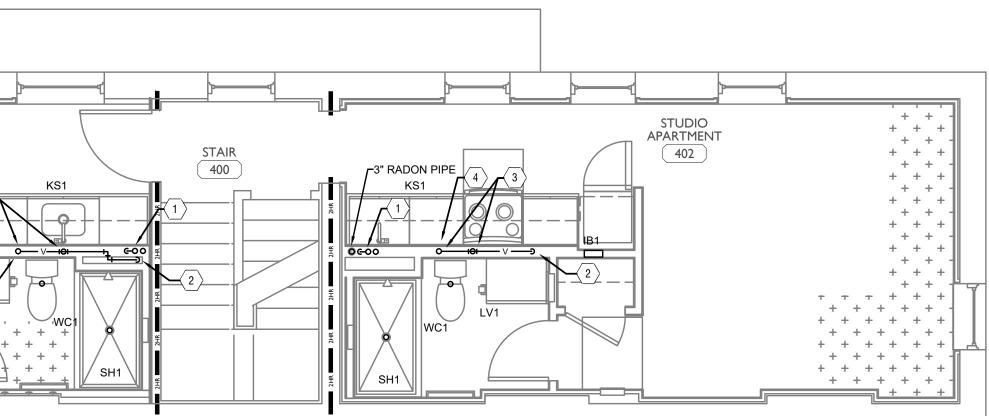
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- 2. 3/4" HOT AND COLD WATER ROUTED THROUGH WALL TO SERVE PLUMBING FIXTURES. 1/2" COLD WATER TO WATER CLOSET AND VALVE BOX, 1/2" HOT AND COLD WATER TO LAVATORY, SHOWER AND KITCHEN SINK. EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 3. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
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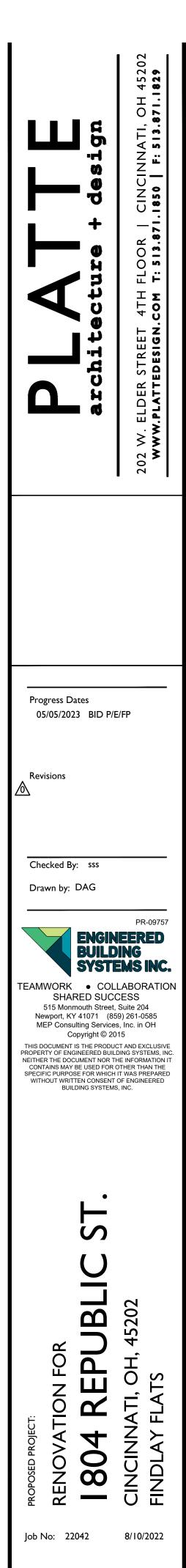


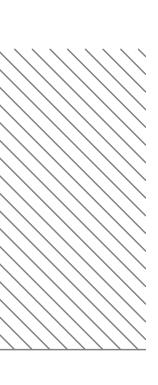


PLUMBING SECOND FLOOR KEYED NOTES

- 3/4" HOT AND COLD WATER ROUTED THROUGH WALL TO SERVE PLUMBING FIXTURES. 1/2" COLD WATER TO WATER CLOSET AND VALVE BOX, 1/2" HOT AND COLD WATER TO LAVATORY, SHOWER AND KITCHEN SINK. EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 2. VENT PIPING UP FROM FLOOR BELOW.
- 3. STACK WASTE VENT PIPING UP AND DOWN
- 4. VENT UP TO FLOOR ABOVE.

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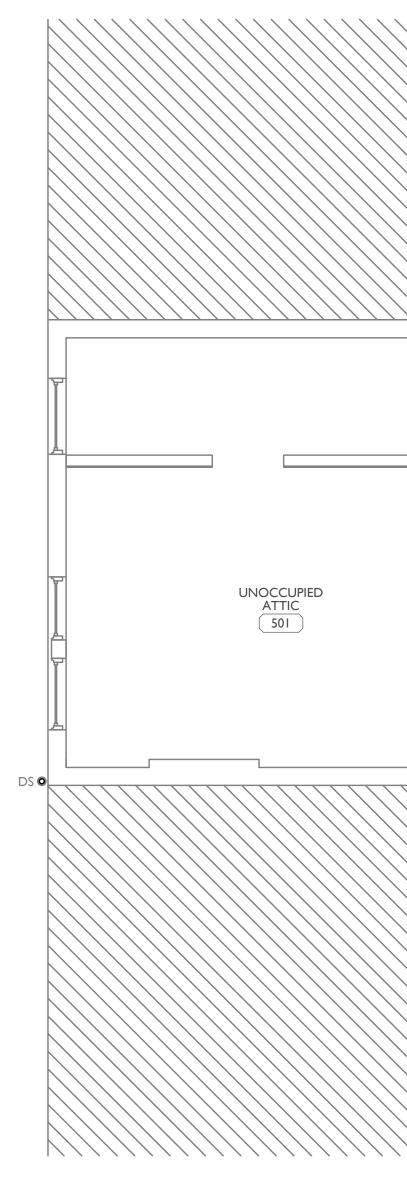


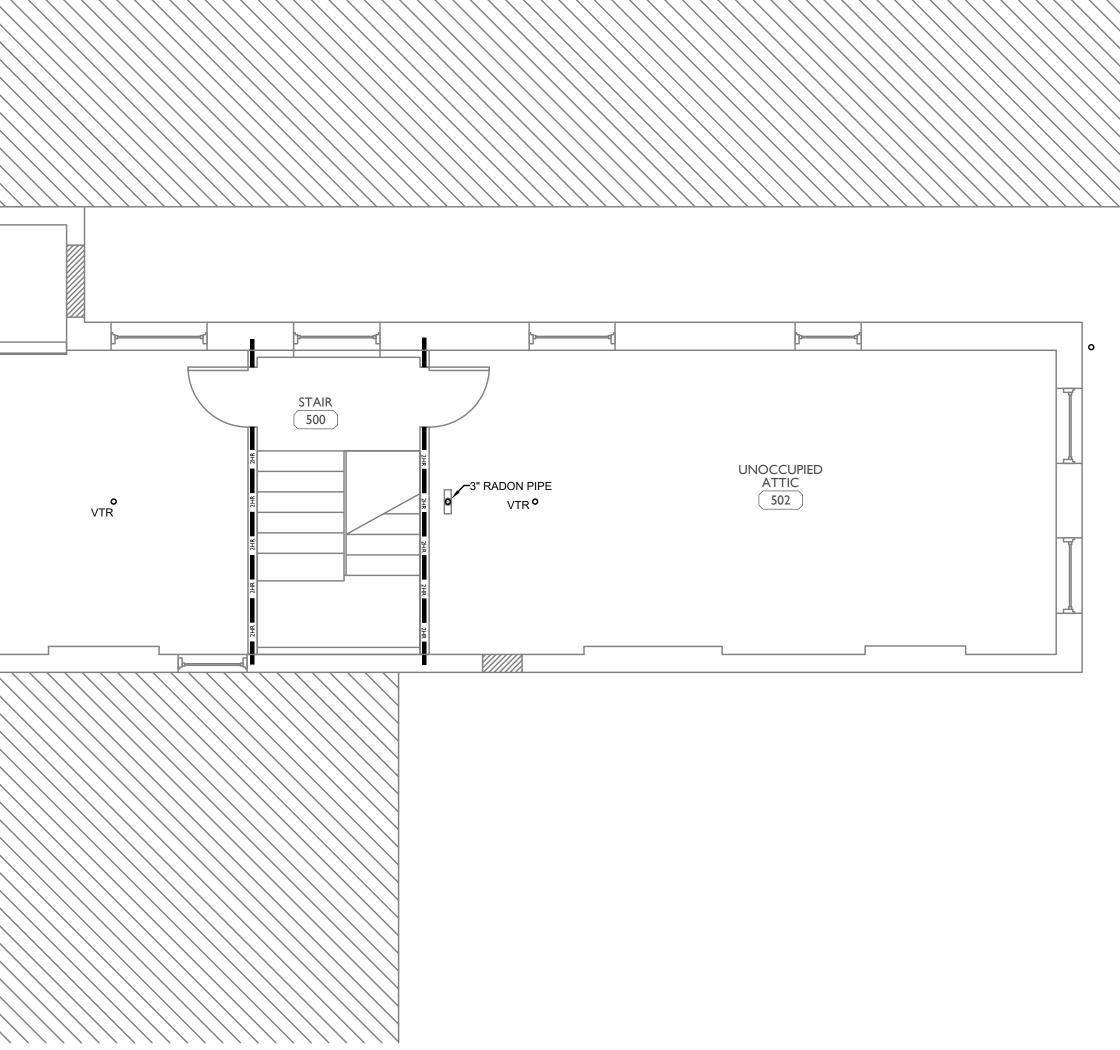


PLUMBING PLAN - FOURTH FLOOR

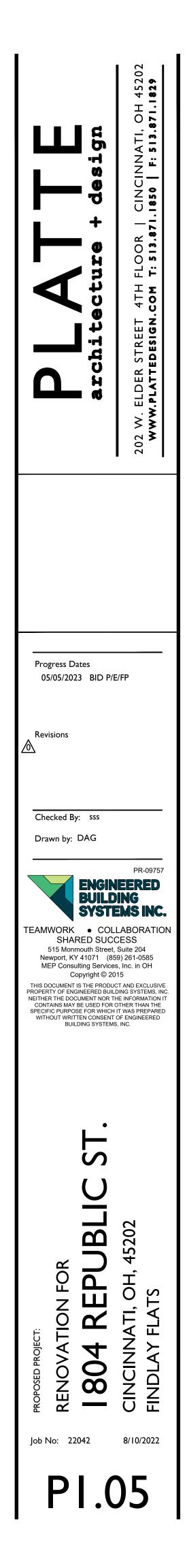
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D	HOT WATER RETURN PUMP							



PLUMBING PLAN - ATTIC

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DIVISION 22 - PLUMBING

- 1. GENERAL PLUMBING REQUIREMENTS
- a. THE PLUMBING CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE PLUMBING CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM.
- b. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL PLUMBING SYSTEMS.
- c. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES, THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD
- d. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- e. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION.
- f. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR **REVIEW PRIOR TO WORK**
- g. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC
- h. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
- I. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
- . WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
- k. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION. TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
- 2. USE OF INFORMATION PROVIDED BY EBS
- a. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS. AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
- 3. CONTRACTOR COORDINATION
- a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE PLUMBING CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER. OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER. ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS
- CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE. **4. PLUMBING FIXTURES**
- a. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS AND WATER CLOSETS.
- b. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO
- WOOD BLOCKING. c. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
- d. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS 8. BACKFLOW PREVENTION
- WHERE REQUIRED TO MEET ADA LEG CLEARANCES. e. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING NORMAL USE. SEAL TO WALL, FLOOR OR COUNTERTOP
- WITH SILICONIZED ACRYLIC-LATEX CAULK. 5. DRAIN PANS
- a. PROVIDE DRAIN PAN UNDER WATER HEATERS. PIPE WATER HEATER DRAIN AND PRESSURE RELIEF VALVE SEPARATELY AND INDIRECTLY TO FLOOR DRAIN (NOT TO DRAIN PAN)
- b. DRAIN PANS SHALL BE PROVIDED UNDER WASHERS AND SHALL BE SIZED TO ACCOMMODATE A STANDARD WASHER OR STACKABLE WASHER/DRYER AS APPLICABLE. BASIS OF DESIGN SHALL BE DRIPTITE 30-5/8" WIDE X 34-5/8" DEEP TRANSLUCENT PAN. DRILL 3/4" OUTLET IN VERTICAL SIDEWALL FOR SIDE-OUTLET OR IN BOTTOM OF PAN DIRECTLY OVER DRAIN IF DRAIN IS UNDER THE PAN. DRAIN CONNECTION SHALL BE MADE WITH MANUFACTURER PROVIDED DRAIN OUTLET CONNECTION. PANS ARE AVAILABLE IN CUSTOM SIZES IF NECESSARY (COORDINATE SIZES AND LOCATIONS OF THE PAN WITH ROOM DIMENSIONS AND EQUIPMENT SIZES AS PROVIDED BY THE ARCHITECT/OWNER).

6. DOMESTIC WATER SYSTEMS

- a. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING b. PROVIDE SEPARATE VALVE AND TAB METER FOR EACH APARTMENT AND
- TENANT SPACE. c. INTERIOR DOMESTIC WATER PIPING:
- i. WHERE ALLOWED BY CODE, CPVC PIPING CAN BE USED.
- a. CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD Adr GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°E AT 100 PSL PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL PLUMBING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTME 1668, SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS. FIRE STOPPING MATERIALS. THREAD SEALANT. PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR FITTINGS

- b. CPVC PIPING LARGER THAN 2" SHALL BE EQUAL TO CORZAN THIS SPECIFICATION COVERS THE MANUFACTURING REQUIREMENTS FOR CPVC SCHEDULE 80 IRON PIPE SIZE (IPS) PIPE AND FITTINGS. BOTH THE PIPE AND FITTINGS ARE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61. CPVC PIPE AND FITTINGS ARE FXTRUDED/MOLDED FROM CPVC COMPOUNDS. THE PIPE COMPOUND MEETS CELL CLASS 24448 AND THE FITTING COMPOUND MEETS CELL CLASS 23447 AS DEFINED BY ASTM D1784. BOTH THE PIPE AND THE FITTING COMPOUNDS ARE CERTIFIED BY NSF INTERNATIONAL FOR USE WITH POTABLE WATER. DIMENSIONS, TOLERANCES AND PHYSICAL PROPERTIES MEET OR EXCEED THE REQUIREMENTS OF ASTM STANDARDS F441 FOR PIPE, F439 FOR SOCKET FITTINGS AND ASTM F437 OR F439 FOR THREADED FITTINGS. THREADED FITTINGS HAVE TAPER PIPE THREADS IN ACCORDANCE WITH ASTM F1498, UNIONS AND FLANGES MEET OR EXCEED THE REQUIREMENTS OF ASTM F1970. ALL SOCKET TYPE JOINTS SHALL BE ASSEMBLED EMPLOYING SOLVENT CEMENTS THAT MEET OR EXCEED THE REQUIREMENTS OF ASTM F493. THE STANDARD PRACTICE FOR SAFE HANDLING OF SOLVENT CEMENTS SHALL BE IN ACCORDANCE WITH ASTM F402. SOLVENT CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR USE WITH POTABLE WATER, AND APPROVED BY THE FITTINGS MANUFACTURERS. WATER FILLED PIPE AND FITTINGS (1/2" THROUGH 6") TESTED IN GENERAL ACCORDANCE WITH UL 723/ASTM E 84 (NFPA 255 AND UBC 8-1) MEETS THE 25/50 FLAME AND SMOKE REQUIREMENT AND SHALL BE PERMITTED TO BE INSTALLED IN RETURN AIR PLENUMS. TEST REPORTS FROM A THIRD PARTY TESTING LABORATORY SHALL BE OBTAINED AND MADE AVAILABLE UPON REQUEST. THE MARKING ON THE CPVC PIPE MEET THE REQUIREMENTS OF ASTM F441 AND THE MARKING ON THE FITTINGS MEETS THE REQUIREMENTS OF ASTM STANDARDS F437, F438 OR F1970. THE PIPE AND FITTINGS MARKINGS STATE THE PIPE/FITTING MANUFACTURE'S NAME OR TRADEMARK, THE MATERIAL DESIGNATION, THE SIZE, THE NSF MARK FOR
- POTABLE WATER AND THE ASTM DESIGNATION. ii. WHERE ALLOWED BY CODE, PEX TUBE AND FITTINGS CAN BE USED. TUBING SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960 STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE PIPING PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF 25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD COMPOUNDS, FIREWALL PENETRATION SEALING COMPOUNDS, AND PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER WITHIN 18" OF TUBING. DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM PRACTICAL LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE). UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS
- AND BOXES AT FIXTURES. d. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING MANUFACTURER.
- e. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT COMPLETION.
- f. PROVIDE HOT WATER RETURN PUMP EQUAL TO BELL AND GOSSETT SERIES
- 100 OR EQUAL PUMP MANUFACTURED BY ARMSTRONG, GRUNDFOS, OR PROVIDE AUTOMATIC TIMER KIT EQUAL TO BELL AND GOSSETT MODEL TC-1 AND PROGRAM PUMP TO OPERATE TO ACCOMMODATE THE OWNER'S
- HOURS OF OPERATION.
- 7. TAB METERS FOR DOMESTIC WATER a. PROVIDE VALVE AND TAB METERS TO ISOLATE WATER USAGE FOR EACH DWELLING UNIT AND TENANT SPACE. PROVIDE SHUT-OFF VALVE UPSTREAM OF METER AND LOCATE IN AN ACCESSIBLE LOCATION.
- a. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE FNTRANCE
- b. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONBRACO AND WILKINS.

					WATER HEATER SCHED	ULE				
MAR	MANUFACTURER I	MODEL HEIG		ON GALLON	KW INPUT	VOLTAGE	PHASE	GPH @ 90	ADDITIONAL INFORMATION	
EDWH1	A.O SMITH ENT-4	40 TALL	ТОР	40	4.5	208V	1	21		
					MI	SCELLANEOUS FIXT	URE SCHEDULE			
MARK	FIXTURE DESCRIPTION	FIXTURE MANUFACT	JRER FIXTU	RE MODEL F.	AUCET MANUFACTURER	FAUCET MODEL	APPROVED FIXT	URE MANUFACTURER	APPROVED FAUCET MANUFACTURE	ADDITIONAL INFORMATION
AAV1	AIR ADMITTANCE VALVE	OATEY	MODA	N	/A	N/A	ACCOR, GUY GRAY,	SIOUX CHIEF, OATEY	N/A	PROVIDE WITH LOUVERED FACEPLATE # 37534. PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL
IB1	ICE MAKER WATER SUPPLY BOX	ΟΑΤΕΥ	MODA WITH	SURE-VENT N	/Α	N/A	ACCOR, GUY GRAY, SIOUX CHIEF, OATEY		N/A	PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL
SH1	SHOWER CONTROLS AND SHOWER PAN	KOHLER	K-8459-0 LEFT - K8458-0 RIGHT PERRLESS		ERRLESS	PTT188782-BL	N/A		KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	1.75 GPM MATTE BLACK FINISH
I SH2 I	SHOWER CONTROLS AND SHOWER PAN	ROLS AND SHOWER KOHLER K-8639-0 LEFT - K8638-0 RIGHT PEERLESS		PTT188782-BL	N/A		KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	1.75 GPM MATTE BLACK FINISH		
BT1	BATH TUB	AMERICAN STANDAR	D PRINSTON 6)" P	EERLESS	PTT188792-BL	N/A		KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	MATTE B;ACK FINSH
KS1	KITCHENETTE SINK	PROFLO	PLOMOSA 24	OMOSA 24" MISENO MIA		P188152LF	ELKAY, JUST		ELKAY, JUST, MOEN, DELTA	PULL DOWN HEAD STAINLES STEEL FINISH 1.5 GPM W/CRUMB CUP STRAINER
WB1	WASHER SUPPLY/DRAIN BOX	ΟΑΤΕΥ	MODA	N	/Α	N/A	SYMMONS, GUY GR	AY, SIOUX CHIEF, OAT	EY N/A	PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL

MARK	DESCRIPTION	BASE MANUFACTURER	MODEL #	FINISH	ADDITIONAL FEATURES	ACCEPTABLE MANUFACTURERS
DN1	DOWNSPOUT NOZZLE	ZURN	Z199-SS	NICKEL-BRONZE BODY	REMOVABLE STAINLESS STEEL SCREEN	ZURN, SMITH, WATTS, WADE, JOSAM, MIFAB
FD1	ON-GRADE FLOOR DRAIN (UNFINISHED AREAS)	OATEY	TRUE SET ON-GRADE TP SERIES	PVC BODY, 5" NICKEL-BRONZE STRAINER WITH RING	TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR	SIOUX CHIEF, OATEY, NSF, JUMBO
FD2	ABOVE-GRADE FLOOR DRAIN (UNFINISHED AREAS)	OATEY	TRUE SET FLANGED TP SERIES	PVC BODY, 5" NICKEL-BRONZE STRAINER WITH RING	FLANGED DRAIN, TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR	SIOUX CHIEF, OATEY, NSF, JUMBO
OD1	OVERFLOW ROOF DRAIN	SIOUX CHIEF	868-E-S-U-STP2	PVC BODY, POLYETHYLENE DOME	EXTENSION, ROOF SUMP, UNDERDECK CLAMP	SIOUX CHIEF, OATEY, NSF, JUMBO
RD1	ROOF DRAIN	SIOUX CHIEF	868-E-S-U	PVC BODY, POLYETHYLENE DOME	EXTENSION, ROOF SUMP, UNDERDECK CLAMP	SIOUX CHIEF, OATEY, NSF, JUMBO

DRAIN SCHEDULE

	1							LAVATORY S								
MARK	LAVATORY DESCRIPTION	FIXTURE MANUFACTUR	ER FIXTURE MODEL FAUG	ET MANUFACTURER FAUCET MODEL	MATERI	AL USE	MOUNTING	STYLE	CONTROL	FLOW RATE	E DRAIN	APPROVED FIXTU	RE MANUFACTURERS	APPROVED FAUCET MANUFACTURERS	ADDITIONAL INFORMATION	
V1	UNDERMOUNT	KOHLER	K-2000 DELT	MODERN BLACK FINIS	H CHINA	GENERAL	UNDERMOUNT	UNDERMOUNT	MANUAL	1	POP-UP	AMERICAN STANDA	ARD. KOHLER. ZURN	AMERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO AUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA	INSULATE SUPPLIES & DRAIN WHERE NOT PRO WITH SHROUD	DTECTED
V2	UNDERMOUNT	DURAVIT	316530017 DELT,	MODERN BLACK FINIS	H CHINA	ADA	WALL-HUNG	N/A	MANUAL	1	GRID ,	AMERICAN STANDA	ARD. KOHLER. ZURN	AMERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO AUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA	PROVIDE WITH FLOOR-MOUNTED CARRIER AN INSULATE SUPPLIES & DRAIN WHERE NOT PRC WITH SHROUD	
								W	ATER CLOSET SCHEDULE	·						
IARK	WATER CLOSET DESCRIPTION	FIXTURE MANUFACTURER	FIXTURE MODEL #	FLUSH VALVE FLUS MANUFACTURER	H VALVE MODEL NUMBER	MATERIAL	USE MO		STYLE FLUSH VA	LVE TYPE	CONTROL	FLOW RATE	SEAT-TYP	E ACCEPTABLE MANUFACTURERS	APPROVED FLUSH VALVE MANUFACTURERS	ADDITIONAL INFORMAT
/C1 FL	OOR-SET TANK	AMERICAN STANDARD	DET 3 WITH CONCEALED TR	APWAY NOT APPLICABLE NOT AP	PLICABLE	CHINA GEI	NERAL/ADA FLO	DR ELONG	ATED NOT APPLI	CABLE MA	ANUAL	1.28	COMFORT SEAT #C1011	AMERICAN STANDARD, KOHLER, ZURN	NOT APPLICABLE	WHITE FINISH

SMITH, OR WATTS. 10. SANITARY AND VENT SYSTEMS

PIPING.

ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS

- 11. FLOOR DRAINS
- AND THAT HAVE DRAIN CONNECTIONS. c. FLOOR DRAINS IN FINISHED AREAS TO BE PVC BODY, DOUBLE DRAINAGE FLANGE, WEEP HOLES, WITH 6" DIAMETER NICKEL BRONZE STRAINER.
- d. FLOOR DRAINS IN MECHANICAL SPACE TO BE PVC BODY, DOUBLE DRAINAGE FLANGE, WEEP HOLES, WITH 9" DIAMETER HEAVY-DUTY DUCTILE IRON STRAINER. e. PROVIDE CAST IRON BODIED FLOOR DRAINS WHERE DRAINS ARE
- PLENUMS). 12. TRAP SEAL PROTECTION
- b. BARRIER-TYPE TRAP SEAL PROTECTION DEVICE A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST CONFORM TO ASSE 1072. THE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. 13. STORM PIPING

- 14. STORM PIPING SPECIALTIES a. PRIMARY ROOF DRAINS MUST HAVE PVC BODY AND POLYETHYLENE DOME. b. SECONDARY ROOF DRAINS MUST HAVE PVC BODY, POLYETHYLENE DOME, AND INTERNAL WATER DAM/EXTENSION COLLAR.

9. HOSE BIBS AND HYDRANTS

a. PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS ON EACH ELEVATION OF THE BUILDING. b. WALL HYDRANTS TO BE EQUAL TO 3/4" WOODFORD MODEL B-67, WITH CHROME FINISH ON BRASS CASTING, WITH BOX AND HINGED DOOR, AND

- LOOSE-TEE KEY. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM,
- a. CONNECT NEW SANITARY PIPING TO THE EXISTING SANITARY STACKS AND/OR UNDERGROUND SANITARY BUILDING SEWER. CONTRACTOR SHALL CLEAN AND INSPECT EXISTING UNDERGROUND BUILDING SEWER, SEWER LATERAL AND ALL PIPING INTENDED TO BE REUSED TO DETERMINED CONDITION FOR REUSE. PROVIDE INSPECTION REPORT AND RECOMMENDATION TO OWNER.
- b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW SANITARY 17. VALVES FOR DOMESTIC WATER
- c. INTERIOR SANITARY, WASTE, AND VENT PIPING:
- I. WHERE NOT INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO
- ii. WHERE PIPING SHALL BE INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE NO-HUB, CAST-IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP. AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED
- AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS). d. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS
- FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION. a. PROVIDE FLOOR DRAINS IN ALL TOILET ROOMS THAT HAVE MORE THAN ONE
- WATER CLOSET OR URINAL. b. PROVIDE FLOOR DRAINS FOR ALL EQUIPMENT PRODUCING CONDENSATE
- INSTALLED IN A PLENUM (MECHANICAL ROOMS THAT ARE USED AS
- a. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY HAVING JURISDICTION:
- a. CONNECT NEW STORM PIPING TO EXISTING SEWER LATERAL. b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW STORM
- c. PROVIDE NEW PRIMARY AND SECONDARY ROOF DRAINS AND ASSOCIATED PRIMARY AND SECONDARY STORM PIPING SYSTEMS WHERE INTERIOR DRAINS ARE SHOWN ON ARCHITECTURAL ROOF PLAN. SECONDARY ROOF DRAINS SHALL BE PIPED INDEPENDENTLY FROM THE PRIMARY SYSTEM AND MUST DISCHARGE THROUGH DOWNSPOUT NOZZLES LOCATED IN THE EXTERIOR WALL AT GRADE.
- d. INTERIOR STORM PIPING: i. WHERE NOT INSTALLED IN A PLENUM, ABOVEGROUND STORM PIPING WITHIN BUILDING SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665. SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.
- c. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE
- STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.

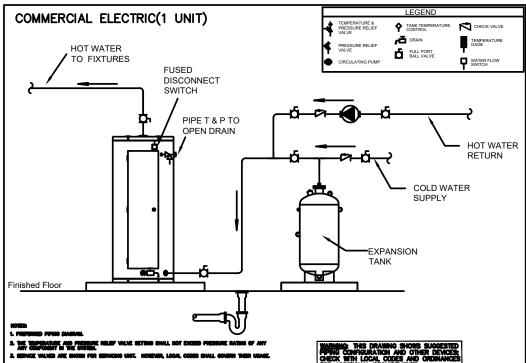
- 15. CLEANOUTS
- a. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE. DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS, CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.
- 16. VALVES GENERAL
- a. PLUMBING CONTRACTOR MUST PROVIDE VALVES AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH ISOLATED FIXTURE OR GROUP OF FIXTURES, AND EACH CONNECTION TO EQUIPMENT.
- b. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.
- a. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW S.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED/INTERPRETED BY THE AUTHORITY HAVING JURISDICTION. b. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR
- GREATER.
- c. GENERAL DUTY SHUT-OFF BALL VALVES . PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (-NS) OR EQUAL PRODUCT MANUFACTURED BY AMERICAN VALVE CO, CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR
- d. BALANCING VALVES
- . BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER, THERMOSTATIC, SELF-ACTUATING BALANCING VALVES WITH UNIONS, THERMOMETER AND TWO INTEGRATED BALL VALVES.
- e. THERMOSTATIC MIXING VALVES
- i. TEMPERED WATER SHALL BE DELIVERED FROM PUBLIC HAND-WASHING FACILITIES (LAVATORIES AND SINKS) THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SET OUTLET TEMPERATURE OF THERMOSTATIC MIXING VALVE TO 110 DEGREES F. POINT-OF-USE THERMOSTATIC MIXING VALVES SHALL BE EQUAL TO WATTS SERIES USG-B. ROUTE TEMPERED WATER TO HOT WATER SIDE OF SINK/LAVATORY. ACCEPTABLE MANUFACTURERS INCLUDE SYMMONS, LAWLER, LEONARD, POWERS, BRADLEY, AND WATTS. 18. EXPANSION COMPENSATION
- a. PROVIDE EXPANSION COMPENSATION ON ALL PIPING PER PIPING MANUFACTURER'S RECOMMENDATIONS. ACCOUNT FOR PIPE MATERIAL PIPE SIZE, PIPE LENGTHS, TEMPERATURE OF FLUIDS, AND ALL OTHER VARIABLES PERTAINING TO THE INSTALLATION.
- b. INSTALL PIPING TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT.
- c. EXPANSION JOINT FITTINGS SHALL BE USED ONLY WHERE NECESSARY TO PROVIDE EXPANSION AND CONTRACTION OF THE PIPES. EXPANSION JOINT FITTINGS SHALL BE OF THE TYPICAL MATERIAL SUITABLE FOR USE WITH THE TYPE OF PIPING IN WHICH SUCH FITTINGS ARE INSTALLED. d. IN LIEU OF PROVIDING EXPANSION JOINTS, PIPING OFFSETS SHALL BE
- PERMITTED WHEN INSTALLED PER THE PIPING MANUFACTURER'S RECOMMENDATIONS. 19. HANGERS & SUPPORTS
- a. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. WHERE ALTERNATIVE PIPING MATERIALS ARE USED. HANGER SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER AND WHERE ALLOWED BY CODE.
- a. PROVIDE THERMAL INSULATION ON ALL METALLIC DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN PIPING WITH SELE-SEALING CLOSED CELL ELASTOMERIC FOAM PROVIDE A CONTINUOUS VAPOR TIGHT SEAL. INSULATION SHALL BE CONTINUOUS THRU ALL WALLS AND FLOORS. NFPA FIRE HAZARD RATING FOR INSULATION. ADHESIVES. SEALERS, AND COATINGS MUST NOT EXCEED 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED, UNLESS OTHERWISE REQUIRED BY THE LOCAI AUTHORITY OR ENERGY CODES. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:
- . PROVIDE 1" THICK ELASTOMERIC INSULATION ON HOT AND HOT WATER RETURN PIPING
- b. PROVIDE INSULATION ON ALL PEX PIPING WHEN USED IN PLENUMS AND WHERE REQUIRED TO MAINTAIN THE REQUIRED FLAME AND SMOKE RATINGS. MOST PEX PIPING ³/₄" AND SMALLER SHALL BE INSULATED TO MAINTAIN ITS PLENUM RATED PROPERTY IF 18" SEPARATION BETWEEN THE PIPING CANNOT BE PROVIDED.

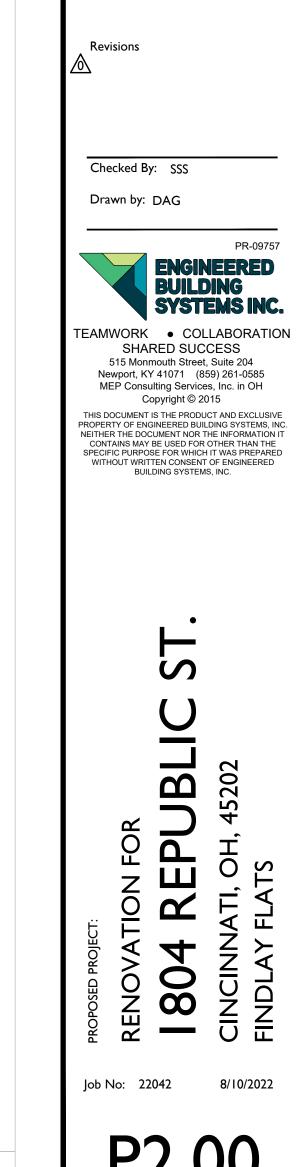
- 21. INSULATION FOR HANDICAP ACCESSIBLE FIXTURES (WHERE NOT PROTECTED WITH A SHROUD)
- a. ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF200 SERIES OR EQUAL. PROVIDE OFFSET TRAPS FOR HANDICAP ACCESSIBLE FIXTURES WHERE REQUIRED ABRASION RESISTANT ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS, THE INSULATION MUST HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION MUST HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS MUST REMAIN SUBSTANTIALLY OUT OF SIGHT. ACCEPTABLE MANUFACTURERS INCLUDE PROFLO, TRUEBRO, PLUMBEREX, AND DEARBORN.
- 22. CONCRETE HOUSEKEEPING PADS a. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD. 23. ESCUTCHEON PLATES
- a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
- 24. ACCESS PANELS
- a. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT. 25. FIRE STOPPING
- a. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED
- SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT. b. THE FIRE STOPPING MATERIAL MUST MEET THE INTEGRITY OF THE FIRE
- RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.
- 26. FLASHING & COUNTERFLASHING
- a. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS. b. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION
- MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.
- 27. CATHODIC PROTECTION a. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR
- OTHER DISSIMILAR METAL IN STRUCTURE. 28. EXCAVATION, TRENCHING & BACKFILL a. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE
- INSTALLATION OF PLUMBING WORK. b. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND
- MUST MATCH SURROUNDING CONDITIONS c. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION. d. ALL PIPING SHALL BE LAID ON A BED OF SAND. 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL
- 29. CUTTING AND PATCHING
- a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL PLUMBING.
- a. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS

31. INSTALLATION

- a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL. 32. TESTING
- a. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL. 33. SHOP DRAWINGS
- a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE PLUMBING CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL. c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE PLUMBING
- CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES. 34. OWNER'S INSTRUCTIONS a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND
- OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER. 35. WARRANTY a. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL
- WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER. b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF
- REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP. END OF DIVISION 22 - PLUMBING

	PLUMBING LEGEND						
SYMBOL	DESCRIPTION						
——s——	SANITARY/WASTE PIPING BELOW FLOOR						
<u> </u>	SANITARY/WASTE PIPING ABOVE CEILING						
V	VENT PIPING						
CW	COLD WATER PIPING						
——HW——	HOT WATER PIPING						
——HWR——	HOT WATER RETURN PIPING						
—— G ——	NATURAL GAS PIPING						
st	STORM PIPING						
FD ●	FLOOR DRAIN						
<u>rd</u> o	ROOF DRAIN						
<u>od</u> @	OVERFLOW DRAIN						
₩	BALL VALVE						
—-v—	CHECK VALVE						
<i>&</i>	BALANCING VALVE						
CO 0	CLEANOUT						
WH H	FROST PROOF WALL HYDRANT						
(#)	VENT THROUGH ROOF RISER INDICATOR						
D	HOT WATER RETURN PUMP						





Progress Dates

05/05/2023 BID P/E/FP

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