

WILL E. SEAY WINDOW REPLACEMENT AND HVAC UPGRADES

4314 BISHOP LANE LOUISVILLE, KY

FOR THE
LOUISVILLE METRO HOUSING AUTHORITY

420 SOUTH 8TH STREET, LOUISVILLE, KY

MARCH 22, 2023

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BUILDING STATISTICS

PROJECT SCOPE: SELECTIVE DEMOLITION, RECONSTRUCTION AND RENOVATION

BUILDING CODE: 2018 KENTUCKY BUILDING CODE/
2015 INTERNATIONAL EXISTING BUILDING CODE - ALTERATIONS LEVEL 2 R-2 USE GROUP

EXISTING CONSTRUCTION: TYPE IIB CONSTRUCTION
EXISTING SLAB ON GRADE, STEEL FRAME,
CONCRETE SLAB ON METAL DECK,
BALLASTED MEMBRANE ROOFING

FIRE SEPARATION:

- EXISTING 0.5-HOUR RATED FLOOR-CEILING ASSEMBLY AT EACH LEVEL
- EXISTING 0.5-HOUR RATED ROOF-CEILING ASSEMBLY
- EXISTING 0.5-HOUR RATED TENANT SEPARATION WALL ASSEMBLY
- EXISTING 0.5-HOUR RATED CORRIDOR EXIT ACCESS ASSEMBLY

ENERGY COMPLIANCE: 2012 IECC PERSCRIPTIVE PATH FOR COMMERCIAL ALTERATIONS - R-2 FENESTRATIONS

- PER TABLE C402.3 2012 IECC
- U-FACTOR

FIXED	0.46
OPERABLE	0.60
ENTRANCE DOORS	0.77
SHGC	0.25

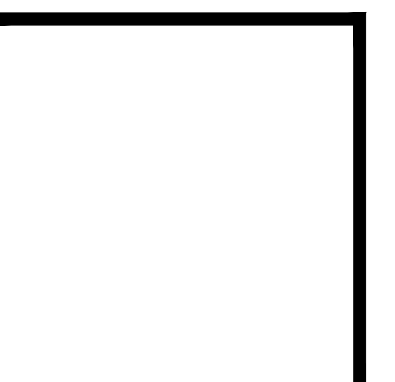
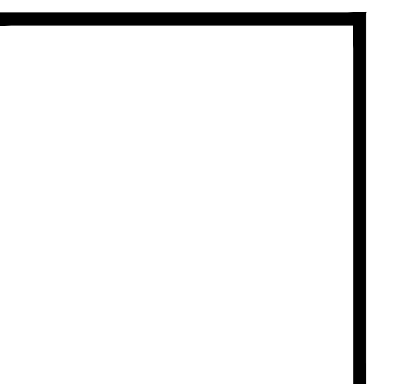
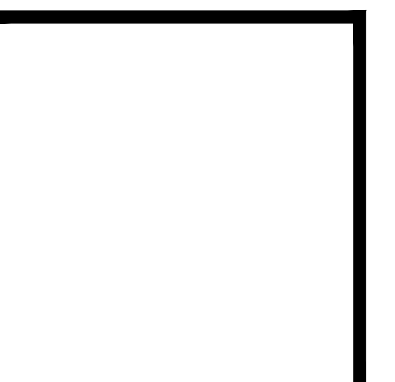
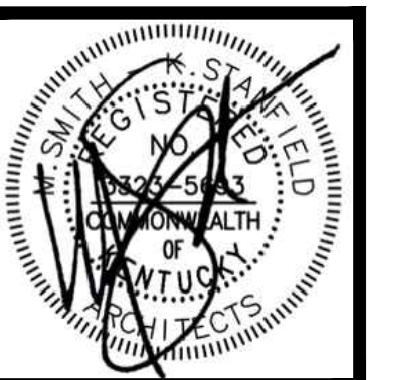
FIRE PROTECTION: EXISTING NFPA 13 SPRINKLER SYSTEM

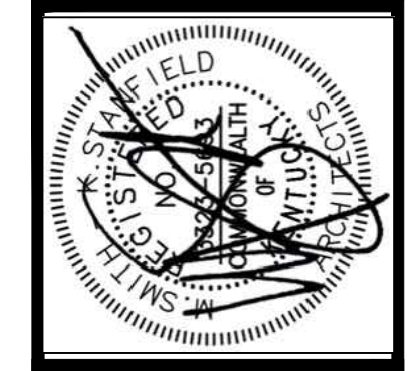


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WINDOW
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4314 BISHOP LANE LOUISVILLE, KY

SITE KEY PLAN AND
GENERAL INFORMATION

JOB NO.	1968
DATE	03-22-2023
DRAWN	RNC
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SHEET
A0.1

HAZARDOUS MATERIALS

HMN-1 THE CONTRACTOR SHALL BE ADVISED THERE IS THE POSSIBILITY OF MOLD/FUNGAL MATERIAL WITHIN THE PLUMBING WALL OF THE BATH. REFER TO SPECIFICATION FOR REMOVAL.

HMN-2 THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN CARTER BARNHART ARCHITECTS, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, OR IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS.

HMN-3 IF ANY CONSTRUCTION PERSONNEL ENCOUNTER ANY MATERIAL WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL STOP WORK IMMEDIATELY AND ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT BUILDING USERS AND WORKERS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES AND REGULATIONS. THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL AND/OR EXPOSURE OF PERSONS TO ANY HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE.

HMN-4 BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANTS, IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS ENCOUNTERED DURING THE PROJECT.

HMN-5 BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH HAZARDOUS MATERIALS RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTORS, SUBCONTRACTORS, SUPPLIERS OR ANY THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

HMN-6 IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS, IF NOT ADDRESSED IN THE SPECIFICATIONS.

SEQUENCING

GENERAL:

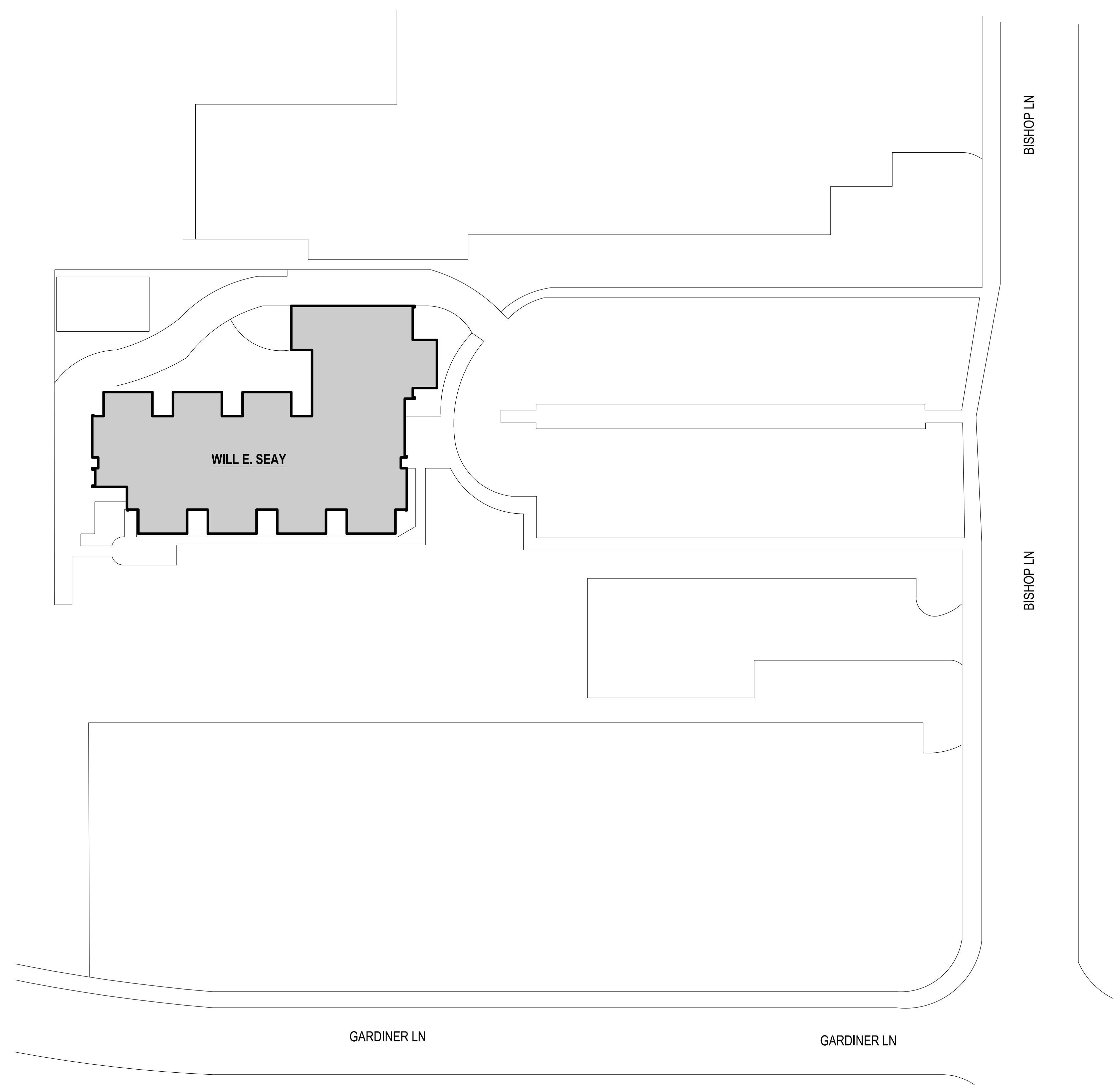
- THE PERIOD OF TIME FOR FINAL COMPLETION (CONTRACT PERIOD) FOR THE WORK SHALL BE FIVE-HUNDRED FORTY (540) CALENDAR DAYS FROM THE NOTICE TO PROCEED.
- PROJECT WILL BE SEQUENCED BASED ON UNIT VACANCY. VACANT UNITS SHALL BE COMPLETE PRIOR TO MOVING ON TO OCCUPIED UNITS. COMPLETIONS SHALL INCLUDE PUNCH LIST REVIEW, COMPLETION OF PUNCH LIST ITEMS, CERTIFICATE (OR TEMPORARY) OF OCCUPANCY (IF APPLICABLE), AND ACCEPTANCE BY THE OWNER. SEQUENCE AS FOLLOWS:
 - A.
- UPON BEGINNING CONSTRUCTION, UNIT # WILL BE VACANT AND READY FOR CONTRACTOR POSSESSION. REMAINDER OF THE UNITS WILL REMAIN OCCUPIED AND OPERATIONAL.
- UPON COMPLETION OF A UNIT, THE COMPLETED UNIT WILL BE OCCUPIED AND THE SUBSEQUENT UNITS WILL BE VACATED AND READY FOR CONTRACTOR POSSESSION.

WINDOWS

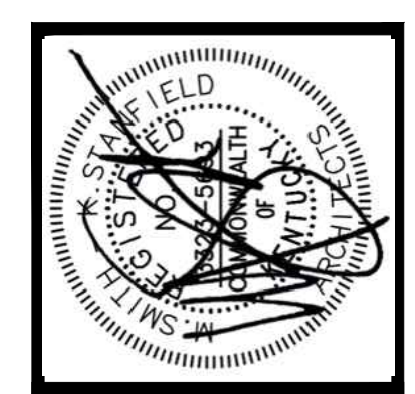
- THE CONTRACTOR SHALL NOT REMOVE MORE WINDOWS THAN CAN BE REPLACED IN A DAY. REPLACEMENT IN A DAY SHALL INCLUDE A WEATHER (AIR AND WATER) TIGHT INSTALLATION.

GENERAL NOTES

- THESE BUILDING PLANS REFLECT GENERAL EXISTING UNIT CONFIGURATIONS. SLIGHT VARIATIONS MAY OCCUR FROM UNIT TO UNIT. THE FLOOR PLANS REFLECT THE INTENT OF DEMOLITION AND NEW WORK TO BE ACHIEVED. COORDINATE ALL PLANS TO ENSURE THAT NEW WORK IS COMPLETED PER THE NEW WORK FLOOR PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO BUILDINGS, BOTH INTERIOR AND EXTERIOR AS A RESULT OF CONSTRUCTION ACTIVITIES.
- ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO START OF WORK.
- INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO THE WORK HAVE BEEN OBTAINED FROM EXISTING DRAWINGS. THE INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED AND REQUIRE FIELD VERIFICATION. NOT ALL EXISTING CONSTRUCTION IS SHOWN. THE CONTRACTOR MAY REVIEW THE PROJECT SITE BY ARRANGEMENT WITH THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS RELATED TO DEMOLITION AND NEW WORK.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- DEMOLITION NOTES FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED, BUT, SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR FIELD EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS SHOWN OR NOT SHOWN ON PLANS AS MAY BE REQUIRED.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING THE COST OF ALL PERMITS AND FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. THE CONTRACTOR SHALL PAY FOR ALL FEES, UTILITY SERVICE FEES AND FOR ALL DAMAGES TO SIDEWALKS, STREETS AND/OR OTHER PUBLIC PROPERTY.
- THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY PRIOR TO COMMENCING DEMOLITION AND NEW WORK.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE, DEBRIS AND EXCESS MATERIALS OFF SITE IN A LEGAL MANNER IN A LANDFILL APPROVED BY THE AGENCY HAVING JURISDICTION AND IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING PAVING, SIDEWALKS AND CURBS. IF THE EXISTING PAVING, SIDEWALKS AND/OR CURBS ARE DAMAGED, THE CONTRACTOR SHALL REPAIR THEM PER THE SPECIFICATIONS OF AUTHORITIES HAVING JURISDICTION AT NO ADDITIONAL COST TO THE OWNER.
- THERE IS NO SITE RELATED WORK
- REFER TO MPE DRAWINGS FOR ADDITION DEMOLITION AND NEW WORK NOTES

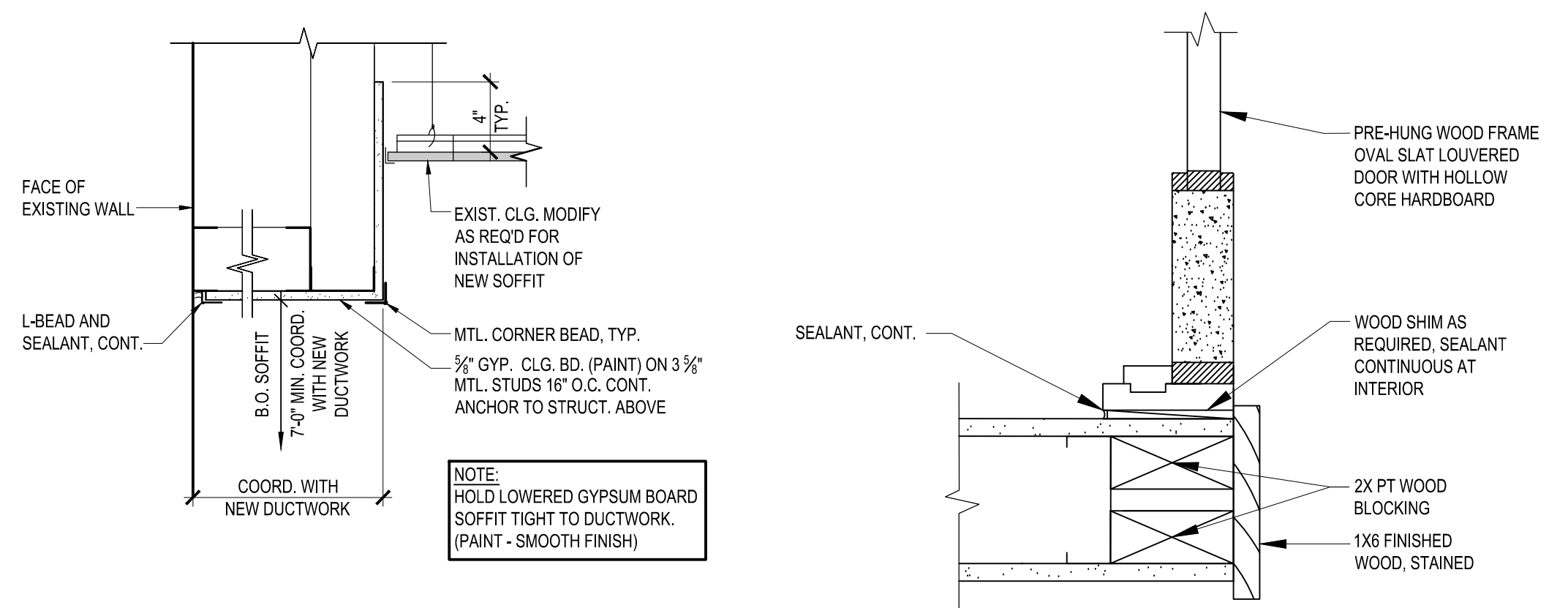


1 SITE KEY PLAN
NOT TO SCALE

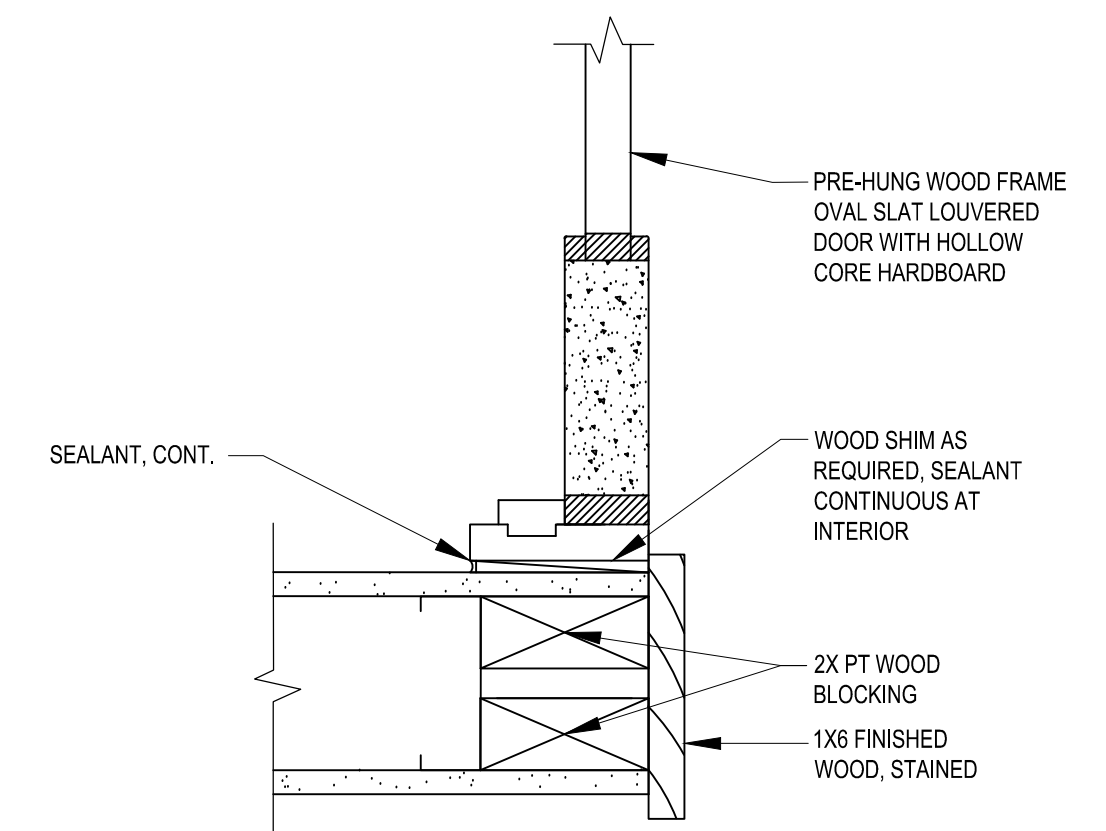


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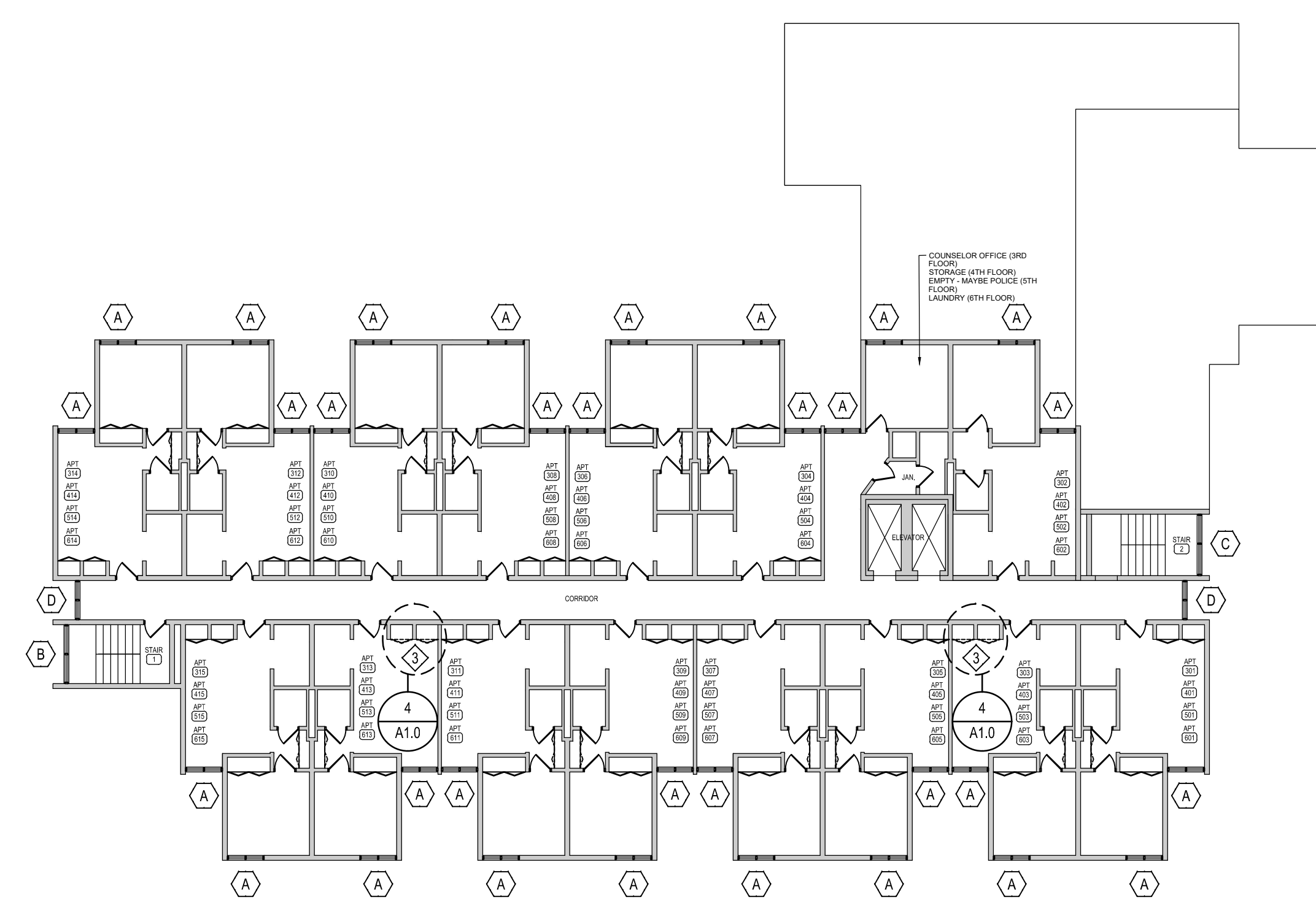
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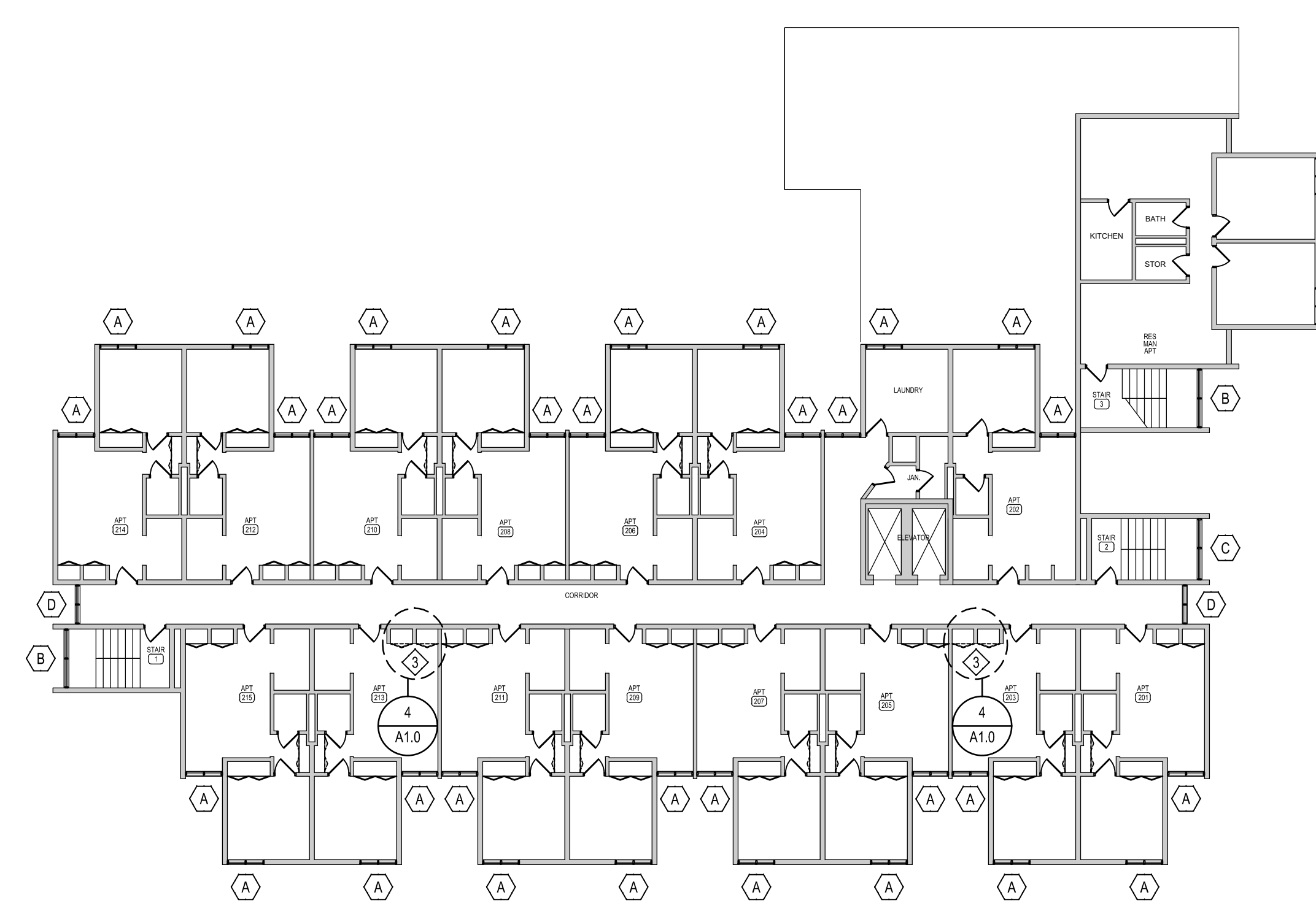
8 SOFFIT DETAIL
SCALE: 1 1/2"=1'-0"



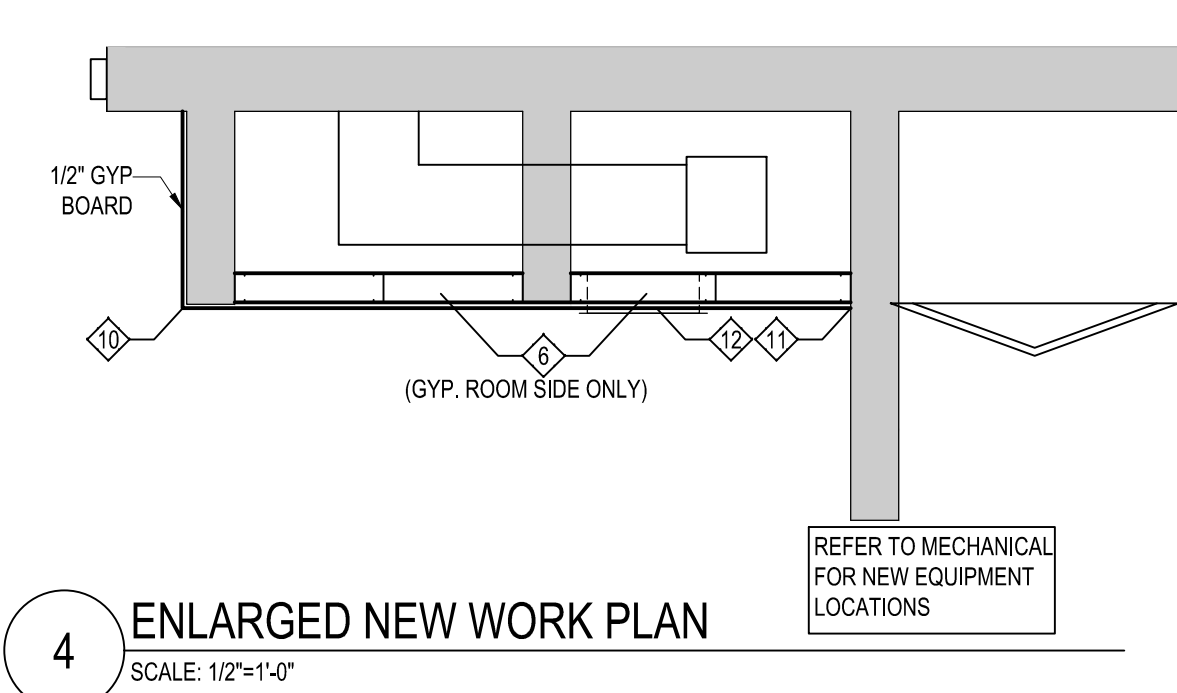
5 JAMB DETAIL
SCALE: 3"=1'-0"



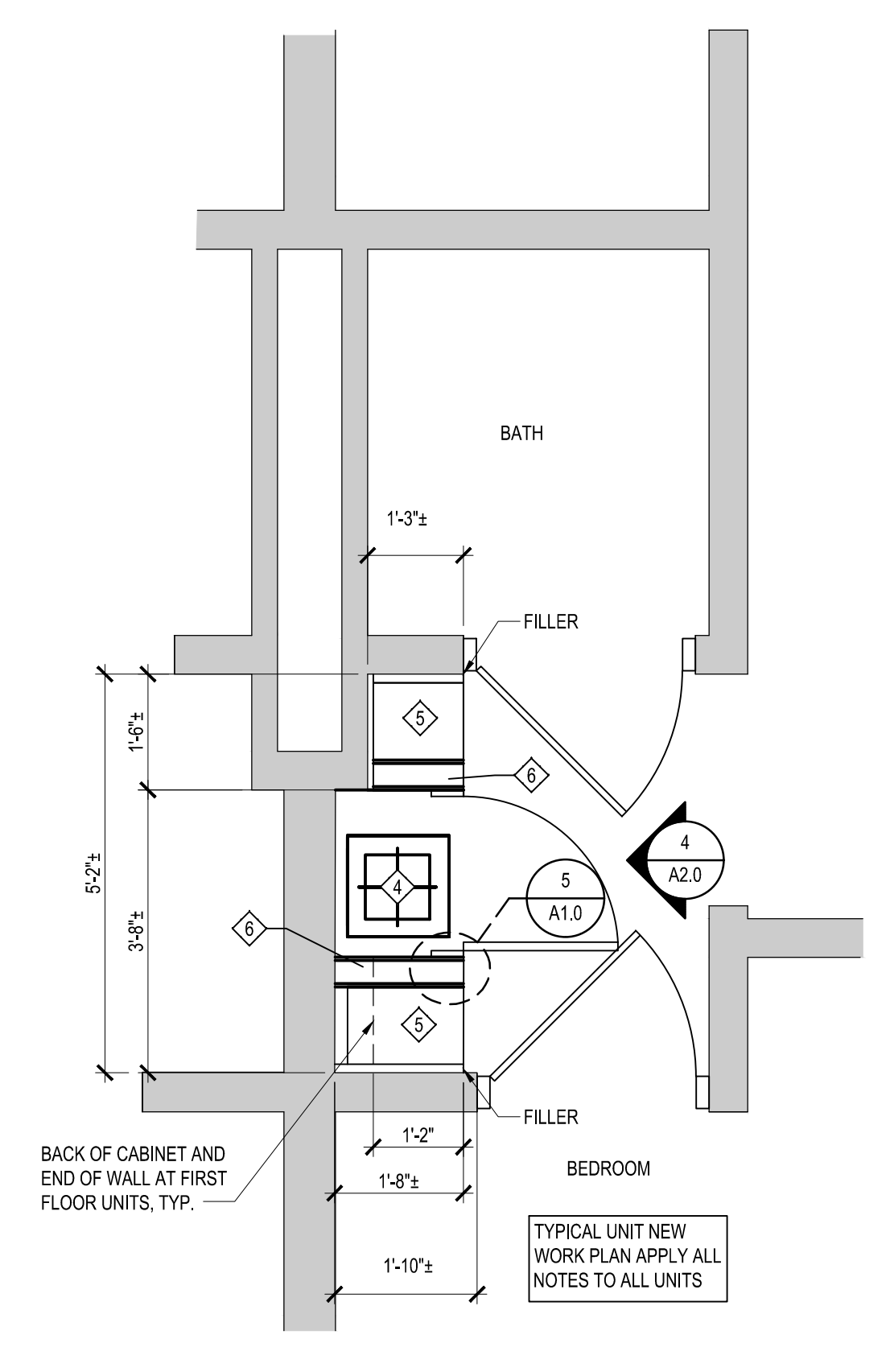
7 THIRD THRU SIXTH FLOOR PLAN
SCALE: 1/16"=1'-0"



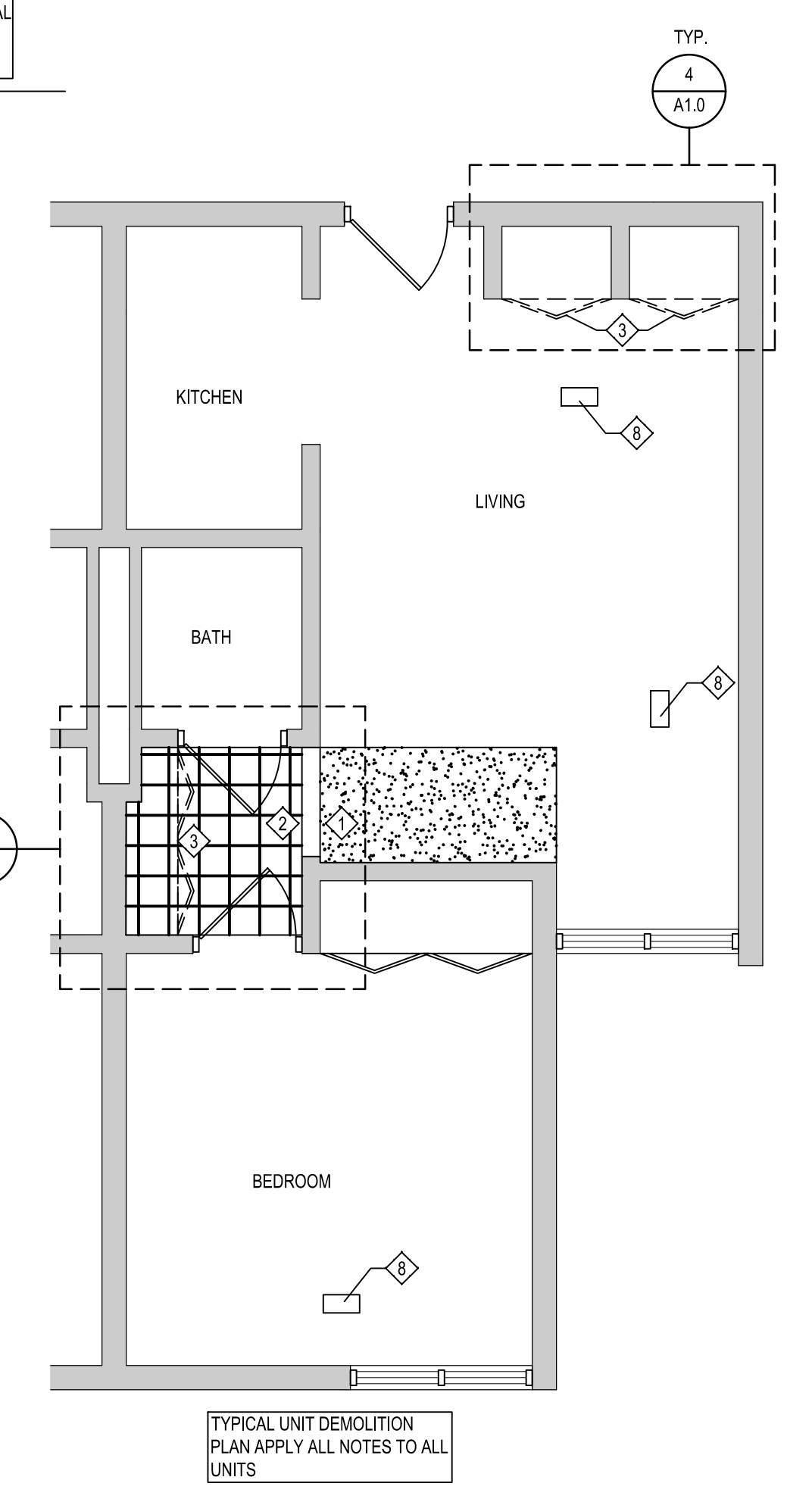
6 SECOND FLOOR PLAN
SCALE: 1/16"=1'-0"



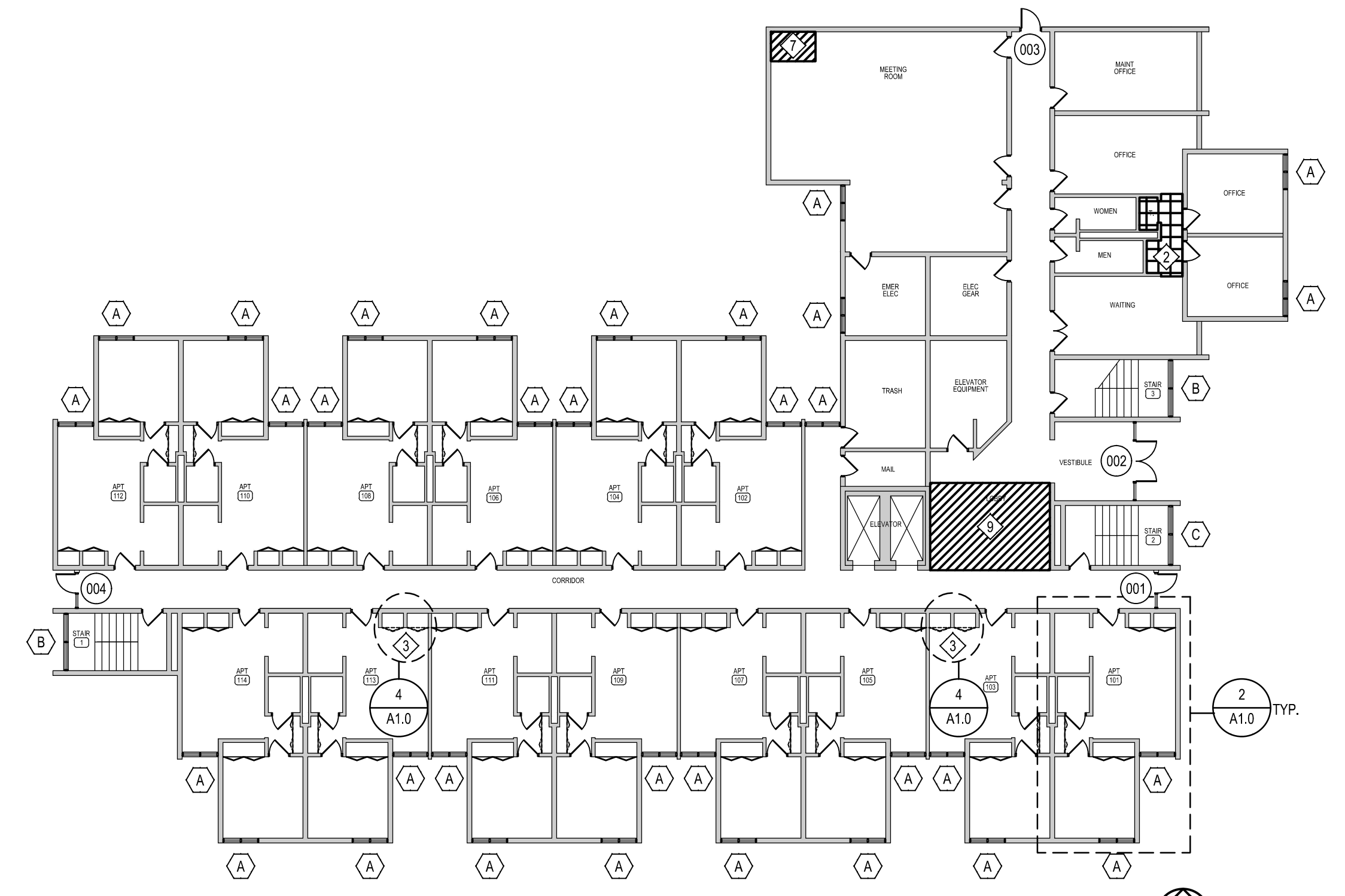
4 ENLARGED NEW WORK PLAN
SCALE: 1/2"=1'-0"



3 ENLARGED NEW WORK PLAN
SCALE: 1/2"=1'-0"



2 TYPICAL UNIT DEMOLITION AND NEW WORK PLAN
SCALE: 1/4"=1'-0"



1 FIRST FLOOR PLAN
SCALE: 1/16"=1'-0"

GENERAL WINDOW NOTES

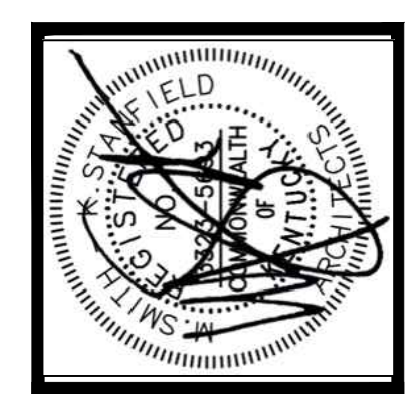
- ALL EXTERIOR WORK IS LIMITED TO WINDOWS ONLY.
- DEMOLISH (ALL EXTERIOR) WINDOW SYSTEMS IN THEIR ENTIRETY. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW ALUMINUM WINDOW SYSTEM.
- REPLACE (ALL EXTERIOR) DOOR SYSTEMS WITH NEW PRE-FINISHED ALUMINUM DOOR SYSTEMS. REFER TO FLOOR PLANS AND A2.0. NEW STAIR WINDOWS SHALL MATCH CONFIGURATION OF EXISTING. FIELD VERIFY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING SIZES AND QUANTITIES BEFORE PURCHASING.
- REMOVE, REPLACE, AND/OR MODIFY EXISTING INTERIOR TRIM AND GYPSUM BOARD AS REQUIRED AND NECESSARY TO FACILITATE WORK. WHERE REMOVED, REPLACED, AND/OR MODIFIED THE FINAL FINISHED PRODUCT SHALL BE IN "LIKE NEW" CONDITION.
- REMOVE ALL EXISTING BLINDS. PROVIDE NEW BLINDS ON WINDOWS WHERE THE EXISTING BLINDS WERE REMOVED.
- DEMOLISH ALL EXISTING WINDOW STOOLS. REFER TO WINDOW DETAILS.

TAG NOTES

- REMOVE AND REPLACE EXISTING SOFFIT TO LIMITS SHOWN. NEW SOFFIT TO BE COORDINATED WITH NEW DUCTWORK. REFER TO MECHANICAL DRAWINGS. REFER TO 8/A1.0.
- REMOVE AND REPLACE EXISTING LAY IN CEILING TO LIMITS SHOWN. NEW LAY IN CEILING TO BE COORDINATED WITH NEW DUCTWORK. HOLD TIGHT TO NEW DUCTWORK, 7'-0" A.F.F. MIN.
- REMOVE ACCORDION DOORS, FRAMES, HEADER, TRACKS AND SHELVING COMPLETELY. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING.
- NEW 15 3/4" X 15 3/4" FAN COIL UNIT. REFER TO MECHANICAL DRAWINGS.
- NEW LINEN CABINET CASE WORK. REFER TO 4/A2.0.
- NEW 3 5/8" METAL STUD WALL WITH 1/2" GYPSUM BOARD (PAINT) BOTH SIDES U.N.O. (FULL HEIGHT). AT NEW FAN COIL UNIT VERIFY WALL SPECIFICATIONS WITH SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- REMOVE EXISTING VCT UNDER MECHANICAL UNIT. REPLACE WITH NEW ACCENT COLOR. TILE TO BE CHOSEN BY THE ARCHITECT.
- REMOVE GRATE WHERE DUCT IS ABANDONED ABOVE CEILING AND PATCH AND REPAIR CEILING. PAINT CEILING TO THE LIMITS OF THE ROOM. REFER TO MECHANICAL DRAWINGS.
- DENOTES LIMIT OF DUCT WORK DEMOLITION. PATCH AND REPAIR CEILING TO LIMITS SHOWN. REFER TO M2.0.
- CORNER BEAD FULL HEIGHT.
- L-C TRIM AND SEALANT, FULL HEIGHT AT OPENING.
- METAL ACCESS PANEL (PAINT) 18"X16" MIN COORDINATE LOCATION WITH FIRE DAMPER.

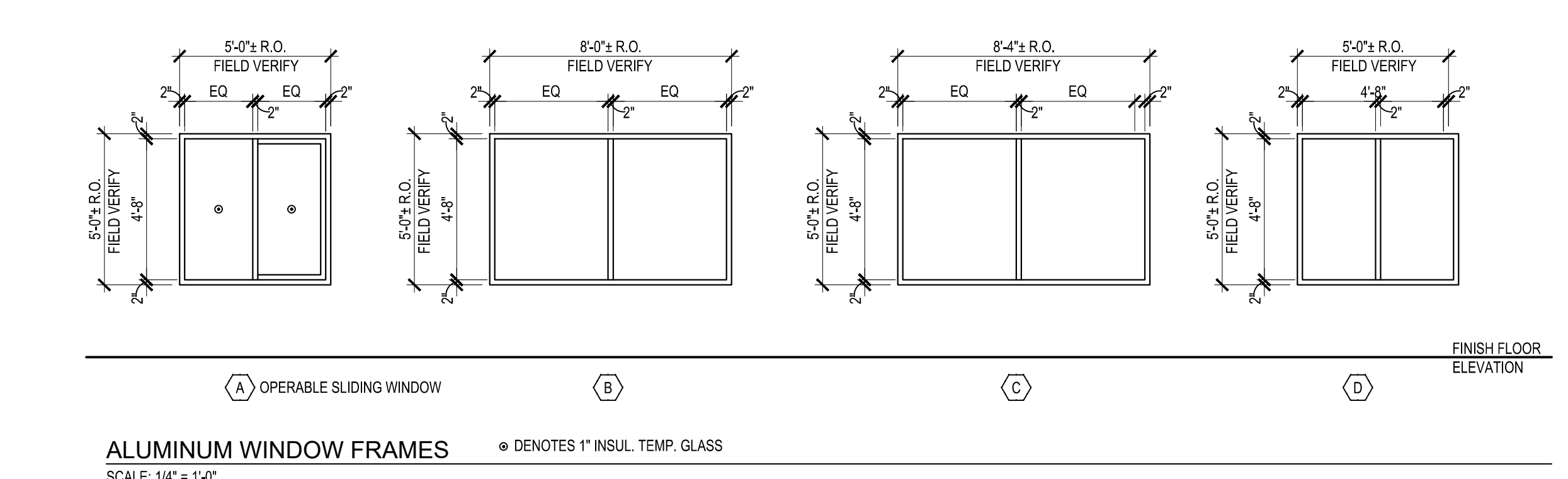
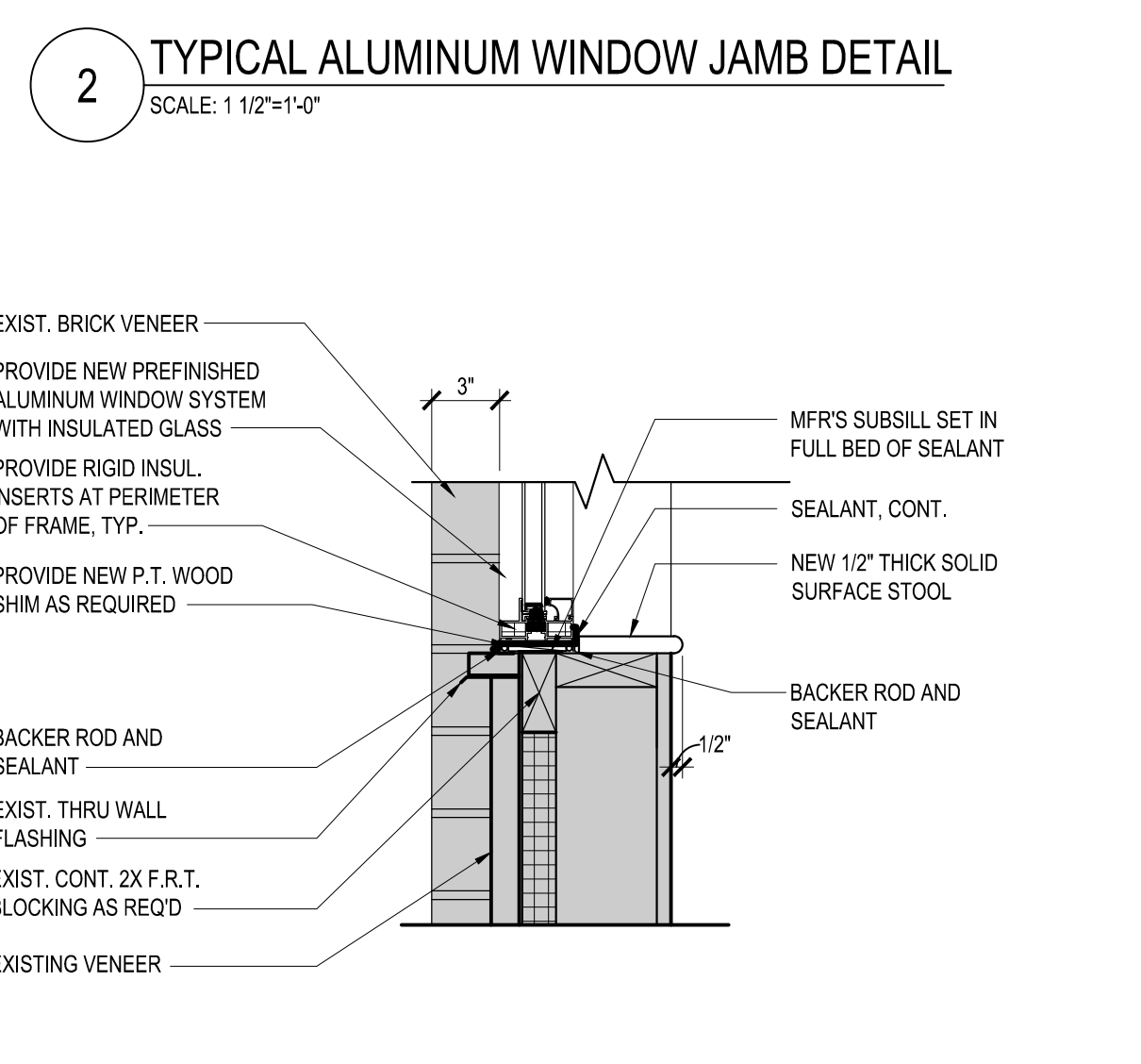
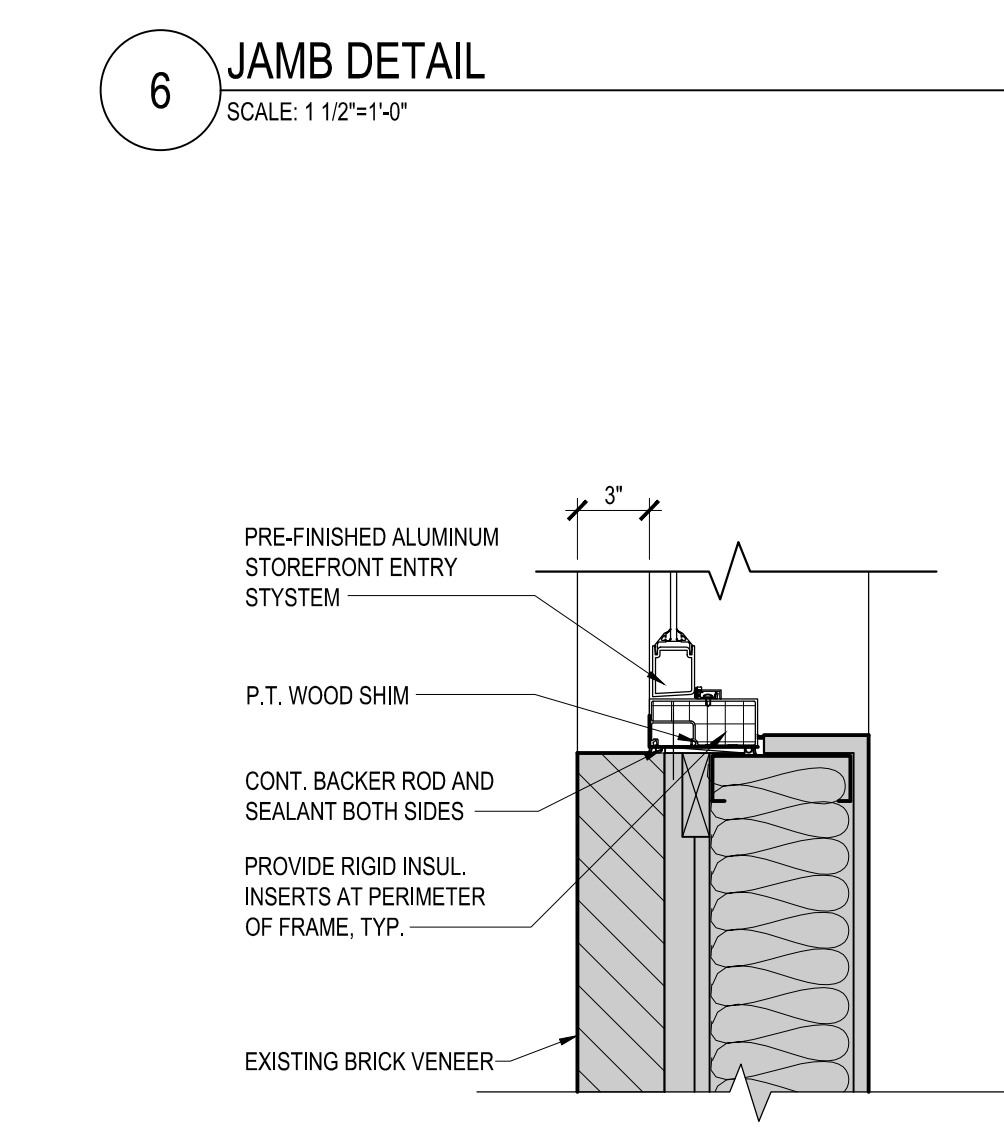
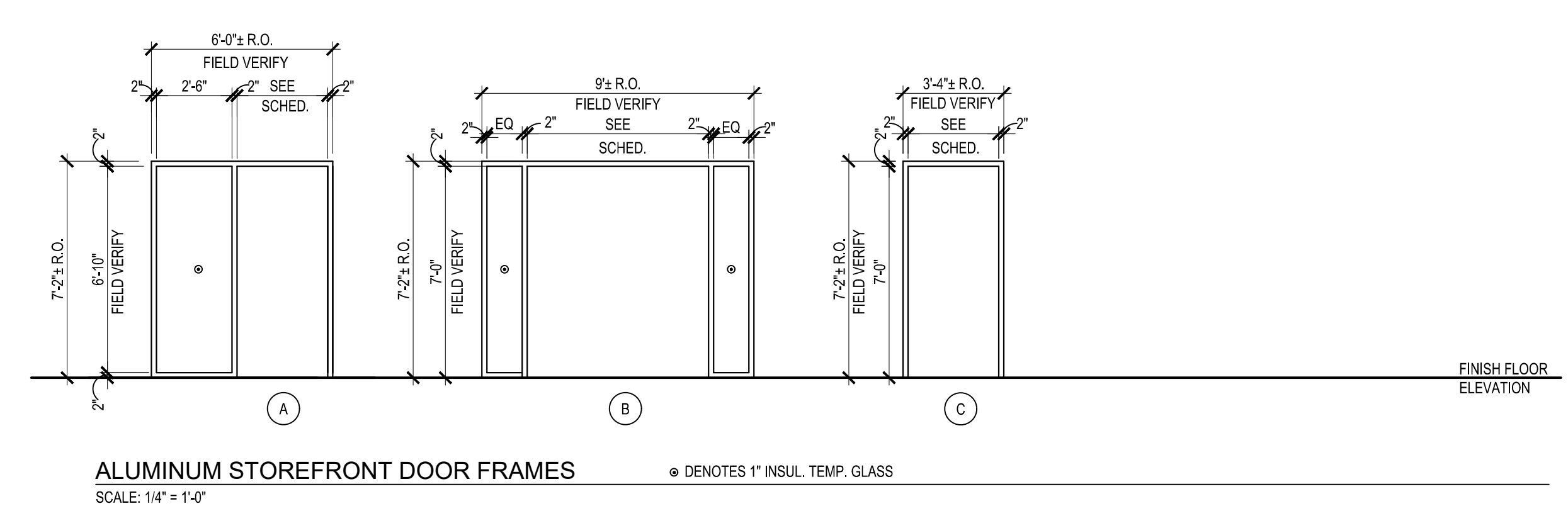
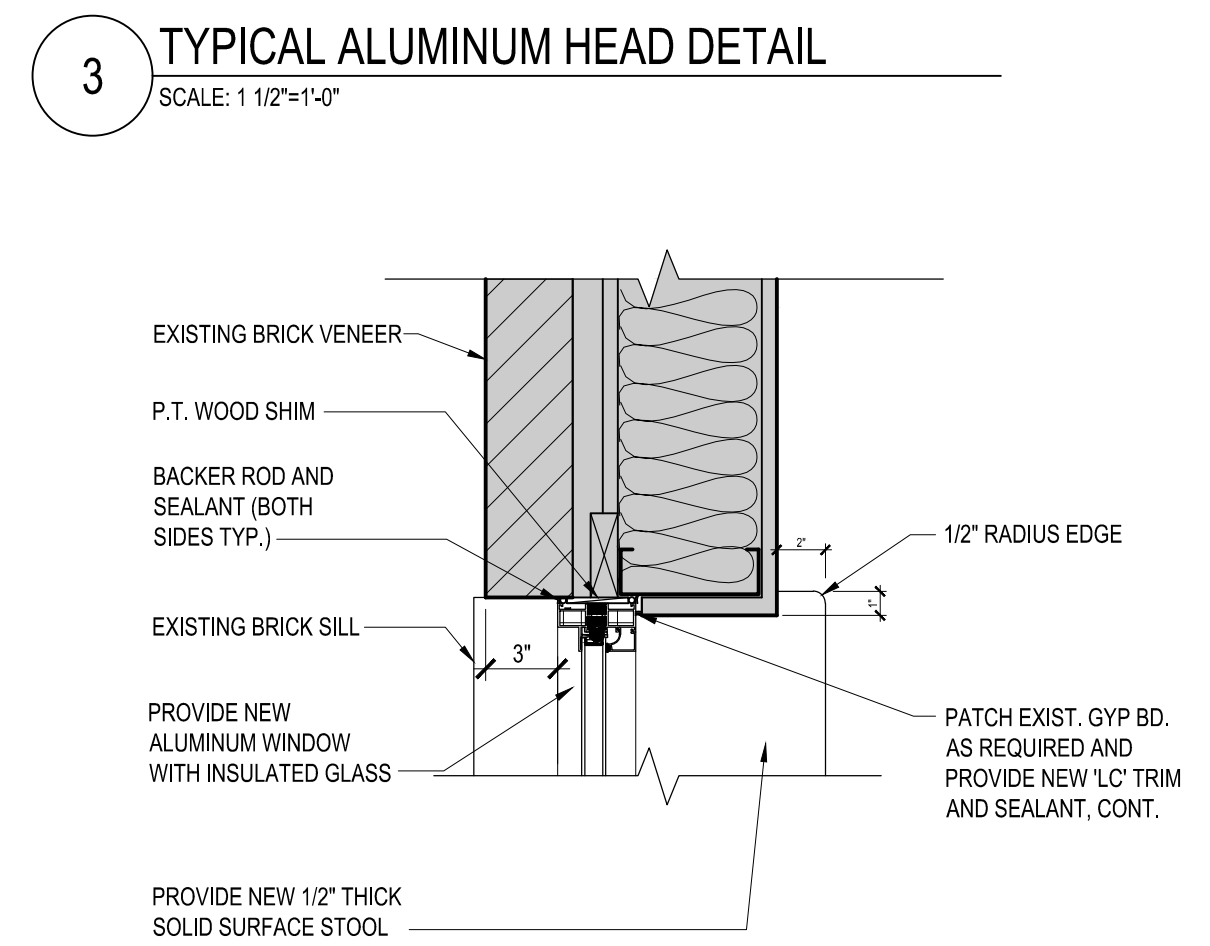
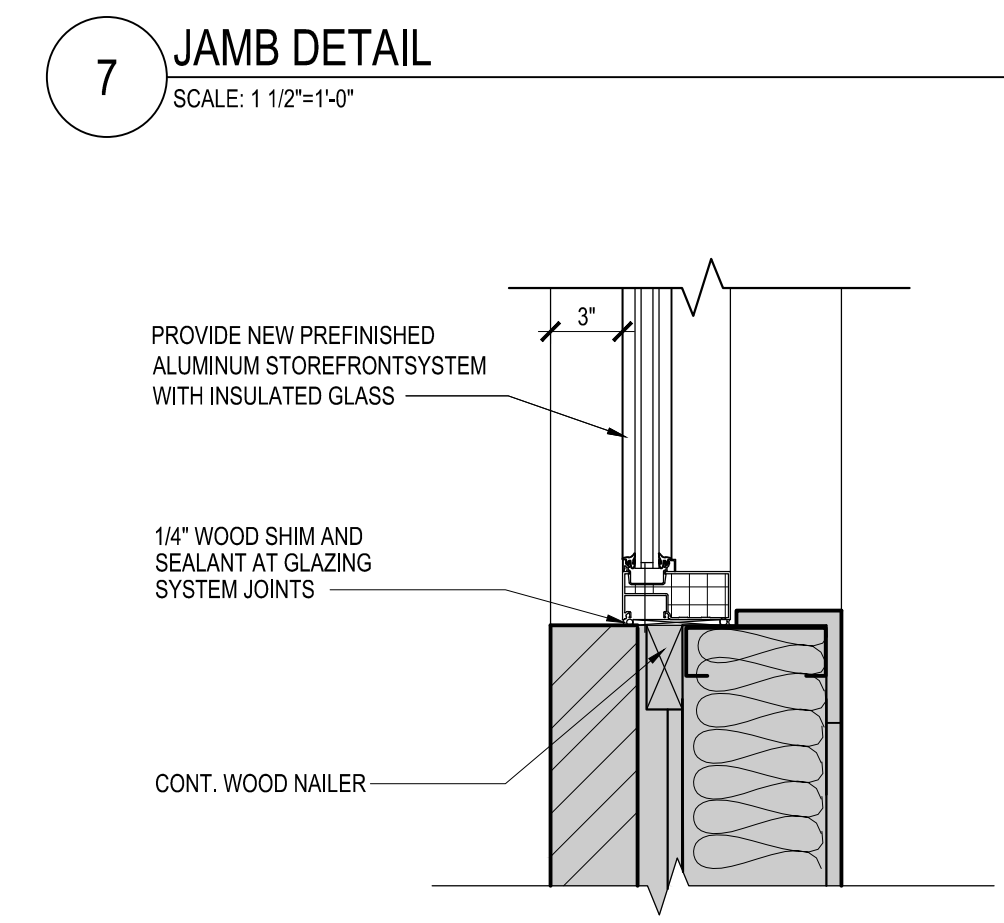
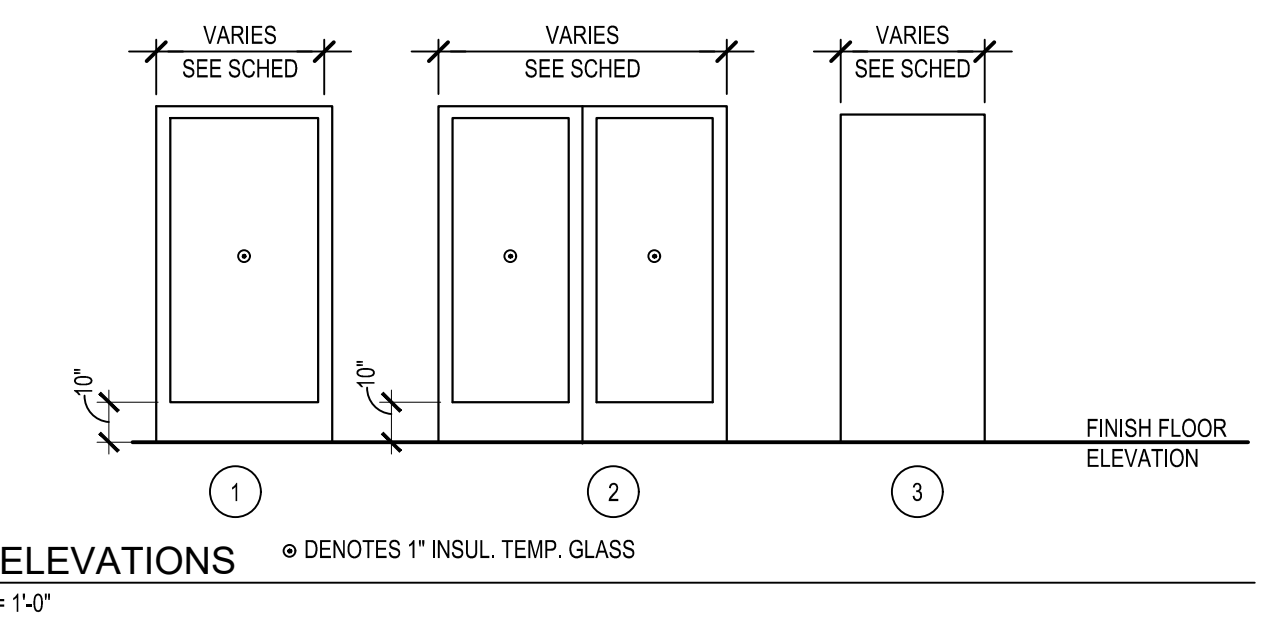
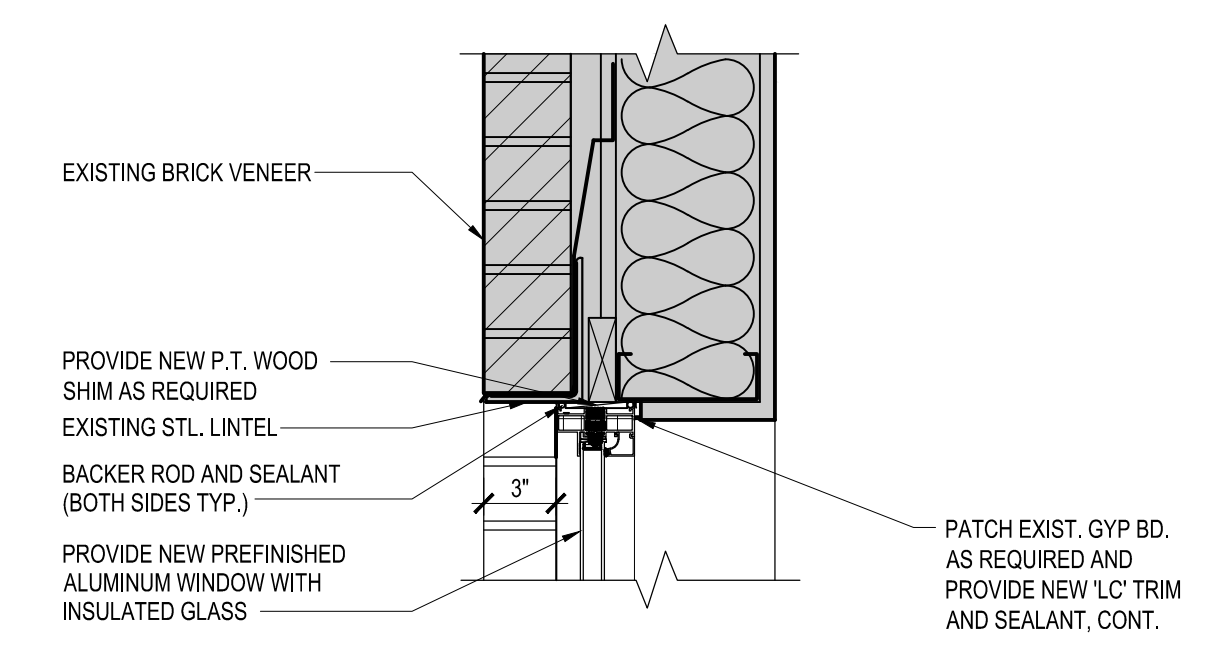
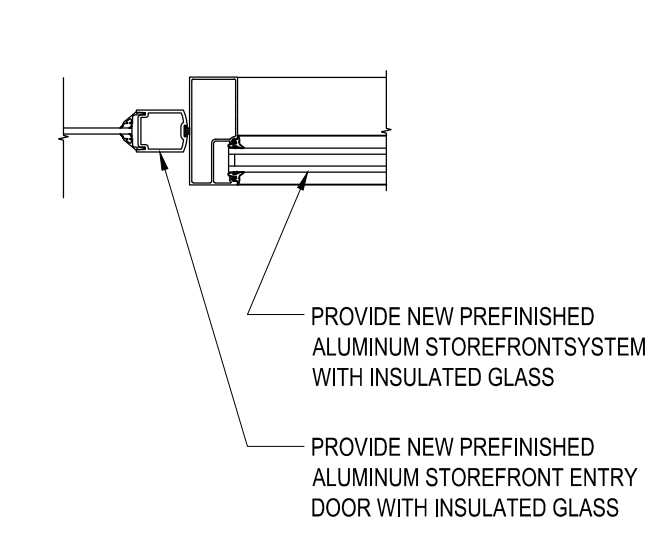
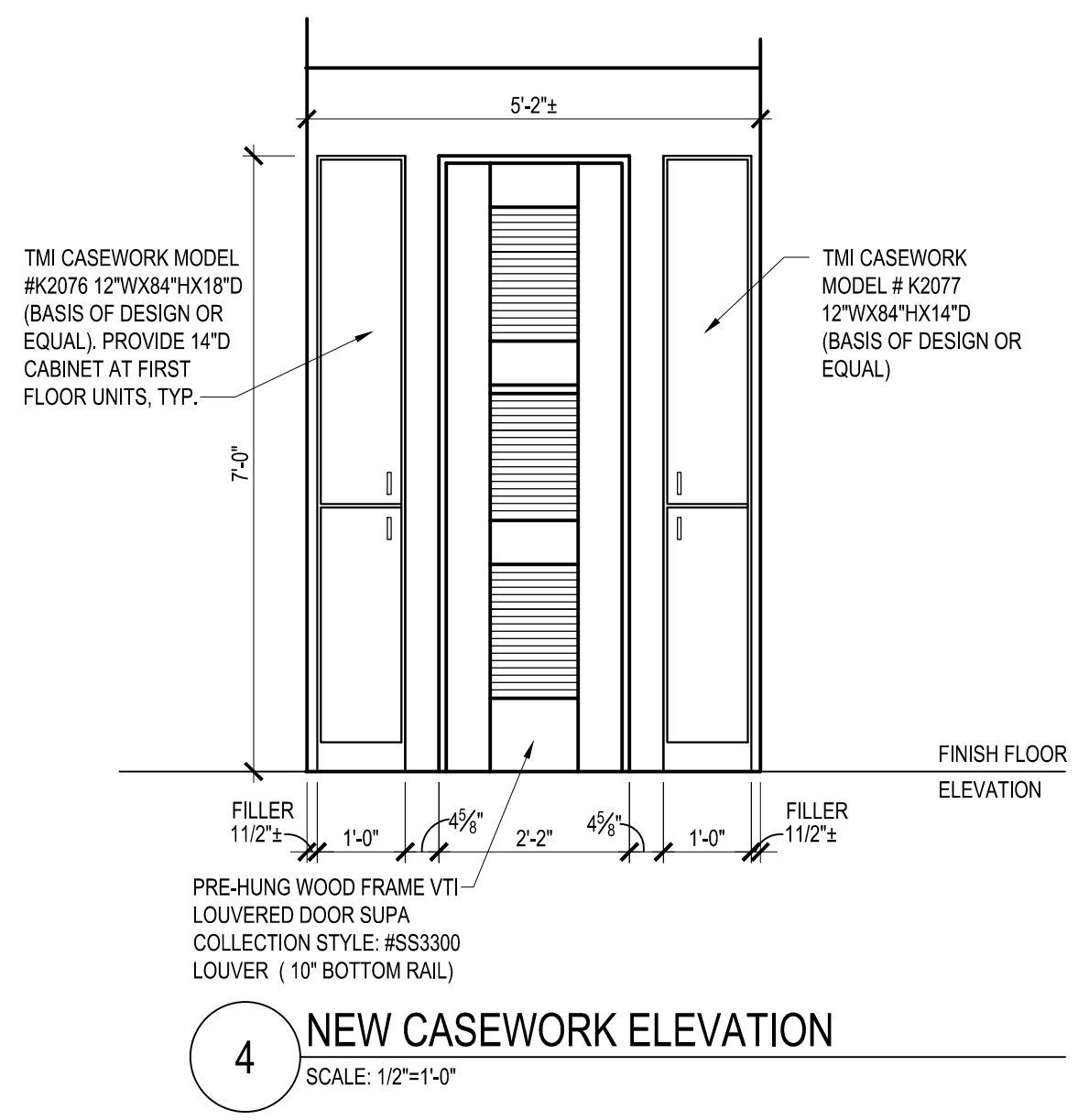
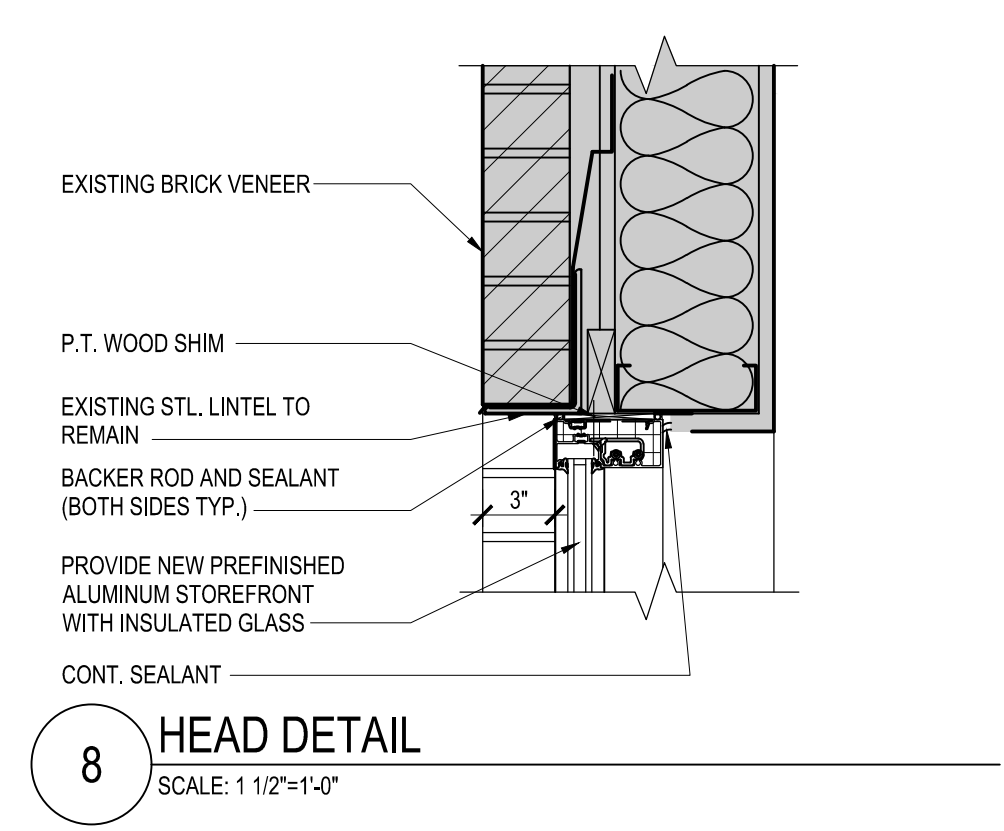
LEGEND

- EXISTING DOOR TO REMAIN
- NEW DOOR, FRAME AND HARDWARE
- EXISTING WALL TO REMAIN
- DENOTES EXISTING WINDOW TO BE REMOVED AND REPLACED. REFER TO FRAME ELEVATIONS ON SHEET A2.0.
- DENOTES EXISTING DOOR TO BE REMOVED AND FRAME TO BE REPLACED. REFER TO DOOR ELEVATIONS ON SHEET A2.0.



REVISIONS

No.	Description	Date



DOOR AND FRAME SCHEDULE												
NO.	DOOR						FRAME				REMARKS	
	NO. LEAVES	SIZE	THK.	MATL.	TYPE (SHF, ASD)	GLAZING	MATL.	TYPE (SHF, A-21)	GLAZING	HEAD DETAIL		JAMB DETAIL
EXTERIOR - FIRST FLOOR												
001	1	3'-0" x 7'-0"	1 3/4"	ALUM.	1	1" INSUL.	ALUM.	A	1" INSUL.	8/A2.0	7/A2.0	1
002	2	3'-0" x 7'-0"	1 3/4"	ALUM.	2	1" INSUL.	ALUM.	B	1" INSUL.	8/A2.0	8/A2.0	1
003	1	3'-0" x 7'-0"	1 3/4"	ALUM.	3	-	ALUM.	C	-	8/A2.0	5/A2.0	1
004	1	3'-8" x 7'-0"	1 3/4"	ALUM.	1	1/4" TEMP.	ALUM.	A	1" INSUL.	8/A2.0	7/A2.0	1
REMARKS												
1 FIELD VERIFY ALL EXISTING ROUGH OPENINGS BEFORE PURCHASING DOORS AND FRAMES.												

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DATE	03-31-2022
DRAWN	KRB
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GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.
- ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL, ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREGG TRAYS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- THE DOCUMENTS COMPLY WITH 2015 IMC (STATE EDITION), 2018 KBC, AND 2012 IECC OR 2010 ASHRAE 90.1.

SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

	SUPPLY DIFFUSER		PRESSURE GAUGE & COOK
	EXHAUST GRILLE		COMPOUND GAUGE
	EXHAUST GRILLE		VACUUM GAUGE
	SLOT DIFFUSER	AFR	ABOVE FINISHED FLOOR
	SIDEWALL GRILLE/DIFFUSER	AFR	ABOVE FINISHED ROOF
	BOILER DRAIN	CD	CONDENSATE DRAIN
	BOILER BLOW-DOWN	CFC	CONSOLE FAN COIL UNIT
	SUPPLY AIR DUCT	C.I.	CAST IRON
	RETURN AIR DUCT	CO ₂	CARBON DIOXIDE
	OUTSIDE AIR DUCT	DN	DOWN
	EXHAUST AIR DUCT	FD-#	FLOOR DRAIN DESIGNATOR
	VOLUME DAMPER	FD	FIRE DAMPER
	EXHAUST AIR DUCT TURNING UP (SIMILAR FOR OTHER DUCT TYPES.)	FPWH	FREEZE PROOF WALL HYDRANT
	EXHAUST AIR DUCT TURNING DOWN (SIMILAR FOR OTHER DUCT TYPES.)	FSD	FIRE/SMOKE DAMPER
	MOTORIZED DAMPER	HB	HOSE BIBB
	FLEXIBLE DUCT	HFCF	HORIZONTAL EXPOSED CABINET FAN COIL UNIT
	THERMOSTAT, TEMPERATURE SENSOR	HFC	HORIZONTAL FAN COIL UNIT
	BOILER FEEDWATER	ID	INSIDE DIMENSION
	COOLING TOWER (CONDENSER WATER) SUPPLY	NC	NORMALLY CLOSED
	COOLING TOWER (CONDENSER WATER) RETURN	NIC	NOT IN CONTRACT
	CONDENSATE DRAIN	NO	NORMALLY OPEN
	HOT WATER RETURN	NTS	NOT TO SCALE
	HOT WATER SUPPLY	OD	OUTSIDE DIMENSION
	CHILLED WATER RETURN	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
	CHILLED WATER SUPPLY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	CHILLED/HOT WATER SUPPLY	OFCI	OWNER FURNISHED, OWNER INSTALLED
	CHILLED/HOT WATER RETURN	OR	OPEN RECEPTACLE
	FIRE/SMOKE DAMPER WITH ACCESS DOOR	PRS	PRESSURE REDUCING STATION
	FIRE DAMPER WITH ACCESS DOOR	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)
	SMOKE DAMPER WITH ACCESS DOOR	PSI	POUNDS PER SQUARE INCH
	PIPE ELBOW TURNING UP/TURNING DOWN	RD-#	ROOF DRAIN DESIGNATOR
	AIR DISTRIBUTION DEVICE DESIGNATOR XXX INDICATES CFM	RL	ROOF LEADER
	LIMIT OF DEMOLITION	SD	SMOKE DAMPER
	CONNECT TO EXISTING (VERIFY EXACT LOCATION)	TB	THRUST BLOCK
	BALANCING VALVE	TE	TOP ELEVATION
	TWO WAY CONTROL VALVE (CONTROL VALVE GENERAL)	TP	TYPICAL
	CONTROL VALVE (3-WAY)	UNON	UNLESS OTHERWISE NOTED
	BUTTERFLY VALVE	VCF	VERTICAL FAN COIL UNIT
	TRIPLE DUTY VALVE	VFD	VARIABLE FREQUENCY DRIVES
	UNION		
	PET'S PLUG		
	CHECK VALVE		
	DOUBLE CHECK VALVE ASSEMBLY		
	STRAINER		
	O S & Y VALVE (GATE)		
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)		
	BALL VALVE		
	SAFETY RELIEF VALVE		
	GLOBE VALVE		
	MANUAL AIR VENT (AUTOMATIC AIR VENT WITH CIRCLE)		
	PUMP SUCTION DIFFUSER		
	THERMOMETER		
	PRESSURE SWITCH		
	TAMPERS SWITCH		
	FLOW SWITCH		
	ACCESS DOOR IN BOTTOM OF DUCT		
	ACCESS DOOR IN SIDE OF DUCT		
	EXISTING PIPING OR DUCTWORK (THIN LINE)		
	DEMOLISHED PIPING OR DUCTWORK (SOLID DASHED LINE)		
	ABANDONED EXISTING PIPING (THIN SOLID LINE)		
	PIPING TEE (TURNED UP/DOWN)		
	CLEANOUT IN CEILING SPACE		
	FLOOR CLEANOUT		
	EXTERIOR CLEANOUT		
	EXISTING DUCT TO BE REMOVED		
	MECHANICAL EQUIPMENT DESIGNATOR		

PHASING NOTE:

THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL S&D WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

NOTE:

WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

HAZARDOUS MATERIAL NOTE:

THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

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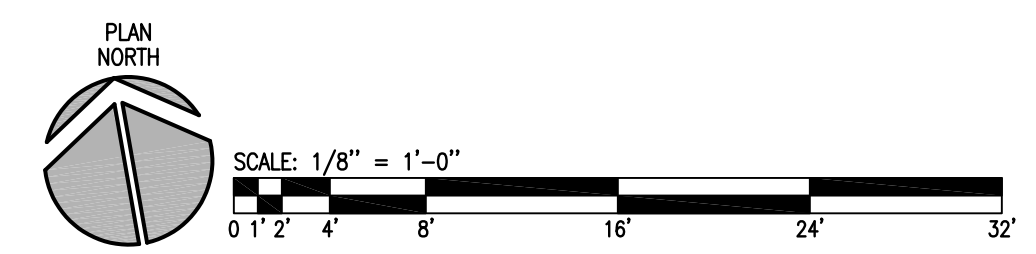
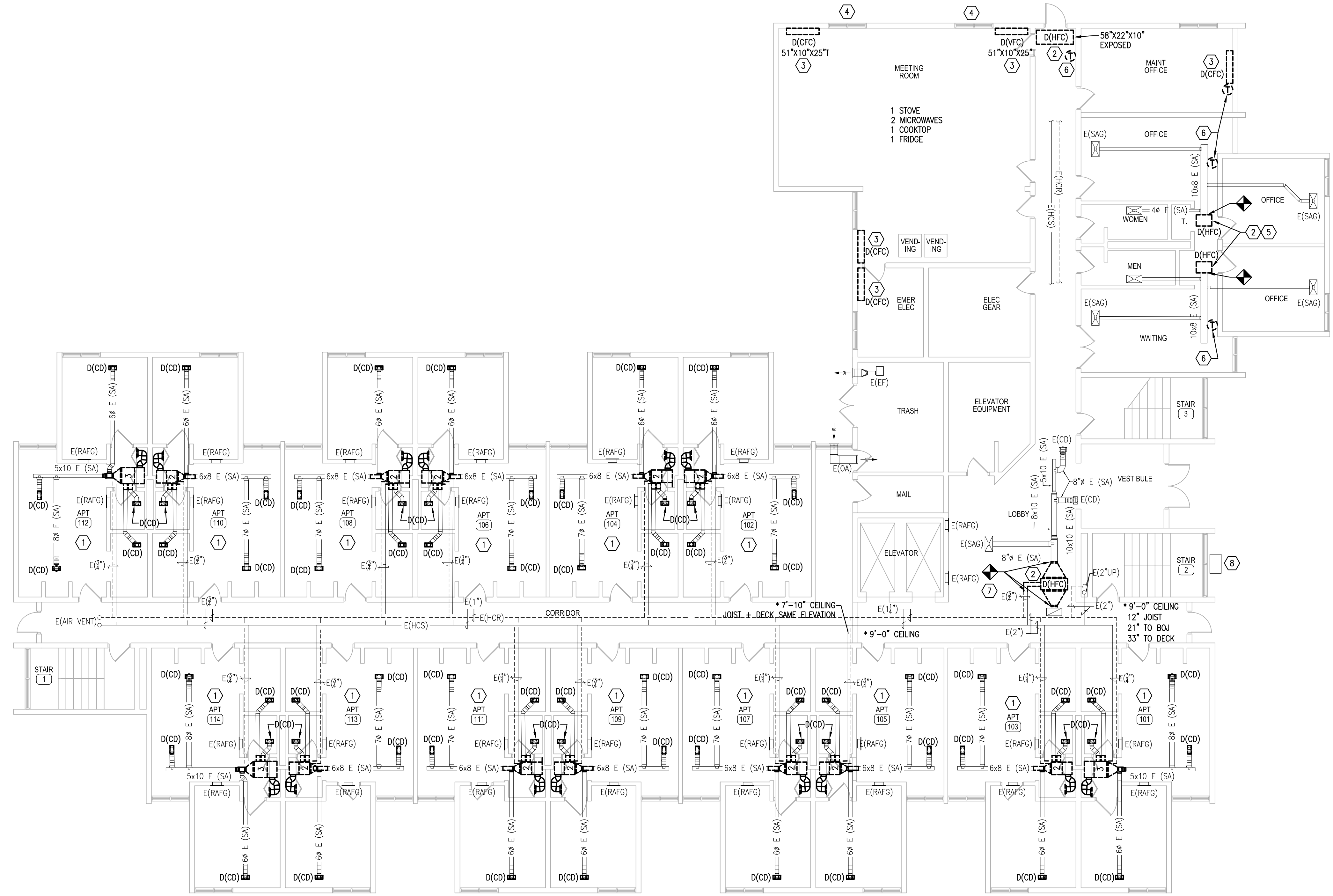
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M2.0

- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE HORIZONTAL FAN COIL.
 3. REMOVE CONSOLE FAN COIL.
 4. 60"x48" OPERABLE WINDOW.
 5. FAN COIL ABOVE CEILING. NO RA DUCTWORK.
 6. REMOVE THERMOSTAT.
 7. REMOVE THERMOSTAT. FIELD VERIFY LOCATION.
 8. GAS METER.



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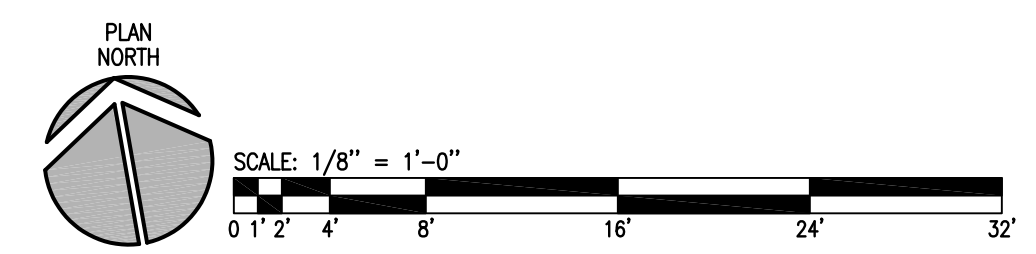
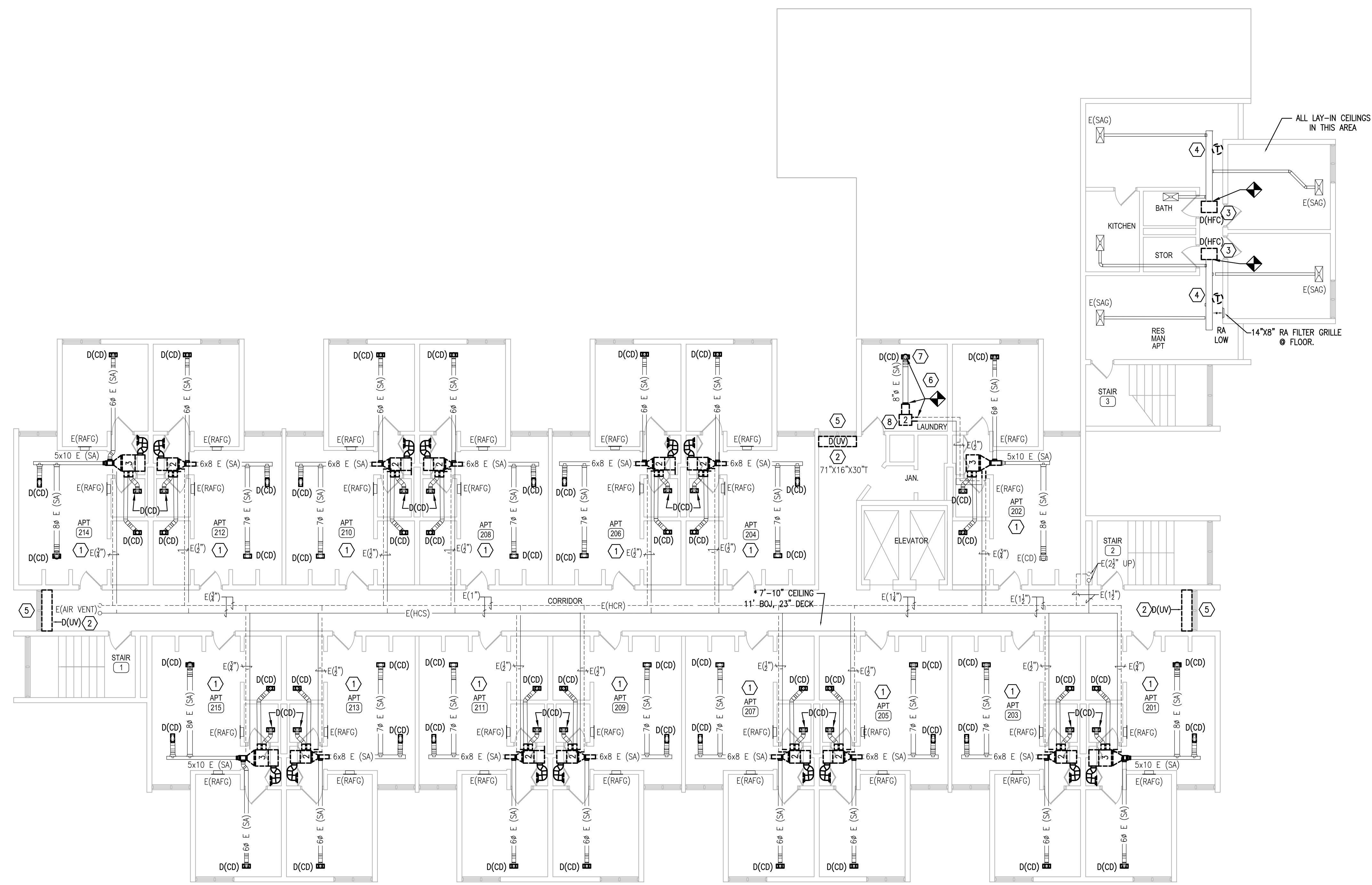
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- TAGGED NOTES:**
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE UNIT VENTILATOR (UV).
 3. REMOVE HORIZONTAL FAN COIL (HFC).
 4. REMOVE THERMOSTAT.
 5. BLANK OFF EXTERIOR LOUVER'S INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. PROVIDE 2" THICK RIGID DUCT INSULATION ON INSIDE SURFACE AND PATCH WALL.
 6. REMOVE THERMOSTAT. FIELD VERIFY LOCATION.
 7. REMOVE DIFFUSER AND PATCH CEILING.
 8. PATCH CEILING WHERE FC IS REMOVED. PROVIDE ACCESS DOOR FOR JUNCTION BOX.



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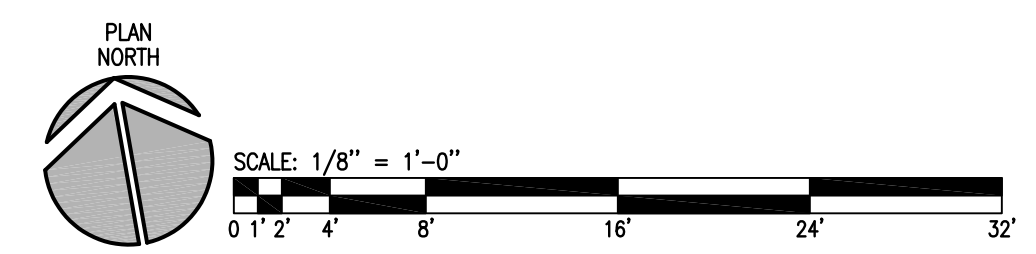
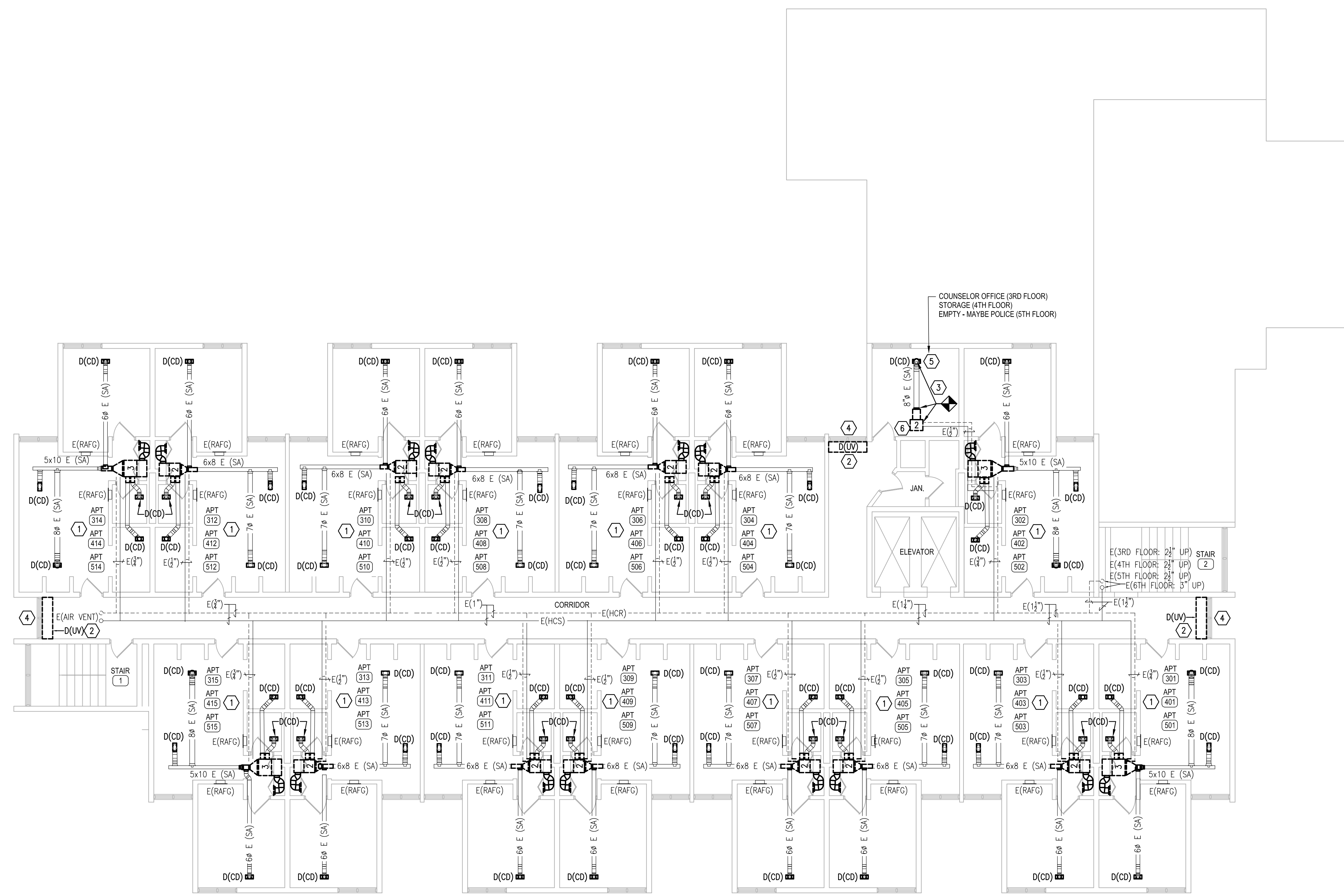
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M2.2

- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE UNIT VENTILATOR (UV).
 3. REMOVE THERMOSTAT. FIELD VERIFY LOCATION.
 4. BLANK OFF EXTERIOR LOUVER'S INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. PROVIDE 2" THICK RIGID DUCT INSULATION ON INSIDE SURFACE AND PATCH WALL.
 5. REMOVE DIFFUSER AND PATCH CEILING.
 6. PATCH CEILING WHERE FC IS REMOVED. PROVIDE ACCESS DOOR FOR JUNCTION BOX.



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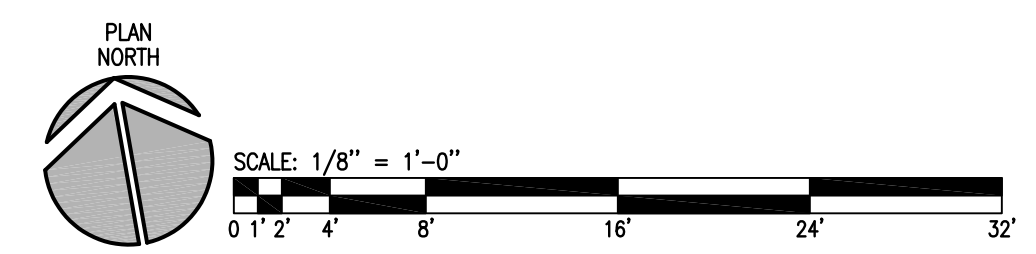
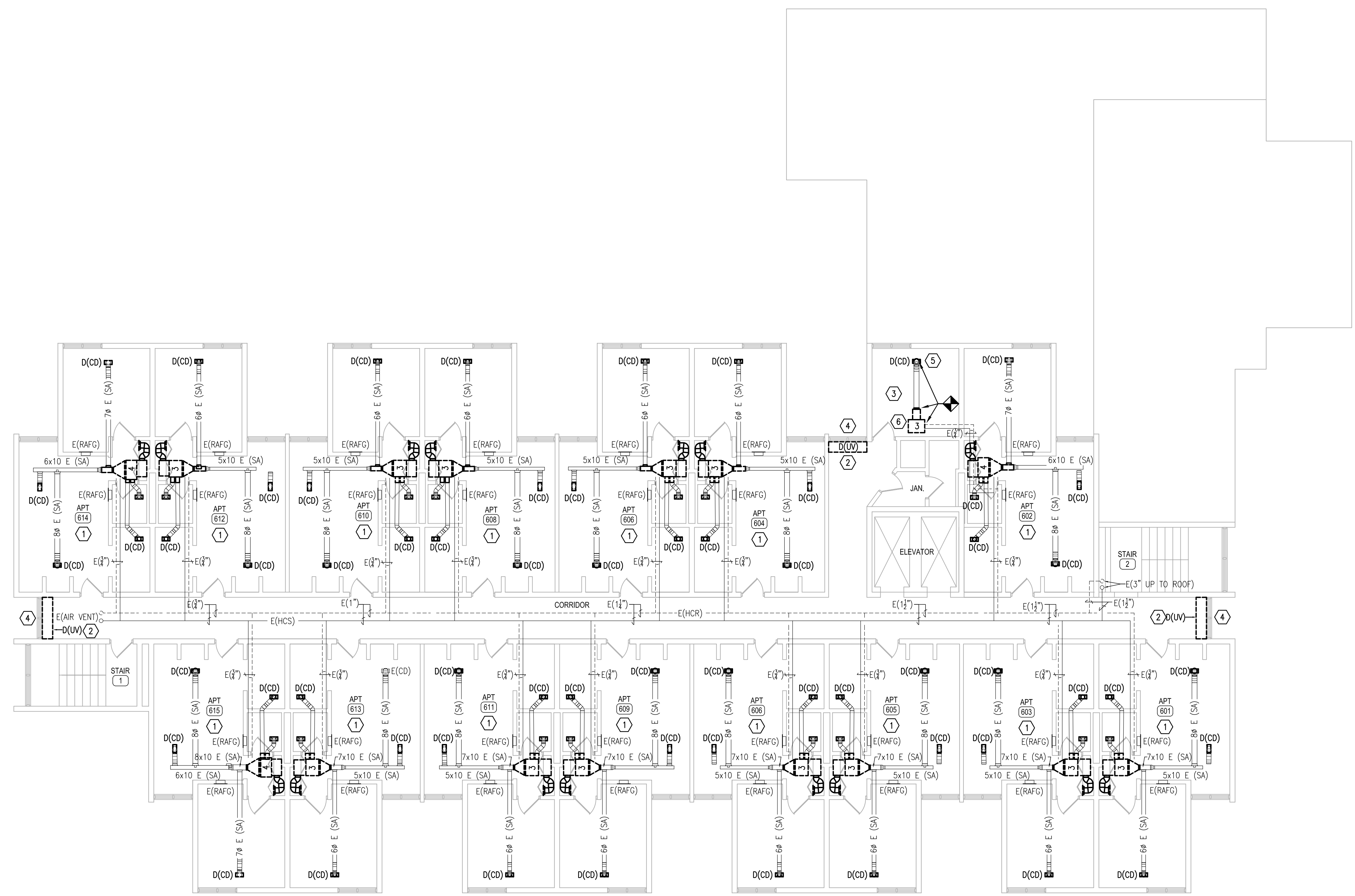
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- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE UNIT VENTILATOR (UV).
 3. REMOVE THERMOSTAT. FIELD VERIFY LOCATION.
 4. BLANK OFF EXTERIOR LOUVER'S INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. PROVIDE 2" THICK RIGID DUCT INSULATION ON INSIDE SURFACE AND PATCH WALL.
 5. REMOVE DIFFUSER AND PATCH CEILING.
 6. PATCH CEILING WHERE FC IS REMOVED. PROVIDE ACCESS DOOR FOR JUNCTION BOX.



TAGGED NOTES:
 1. SEVENTH FLOOR MECHANICAL ROOM AND STAIR LANDING.

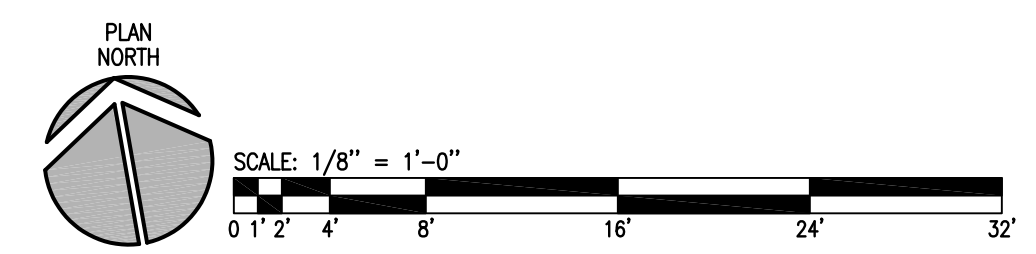
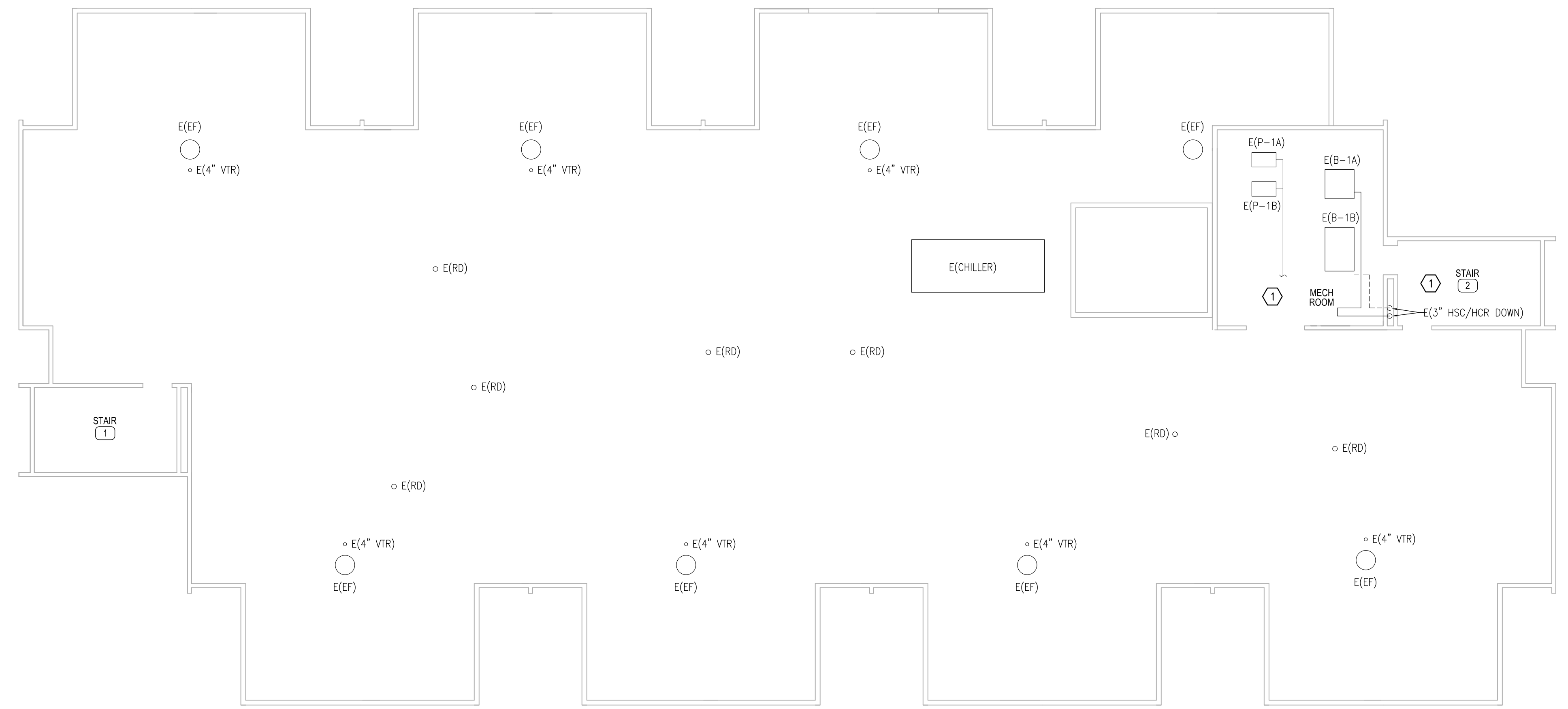
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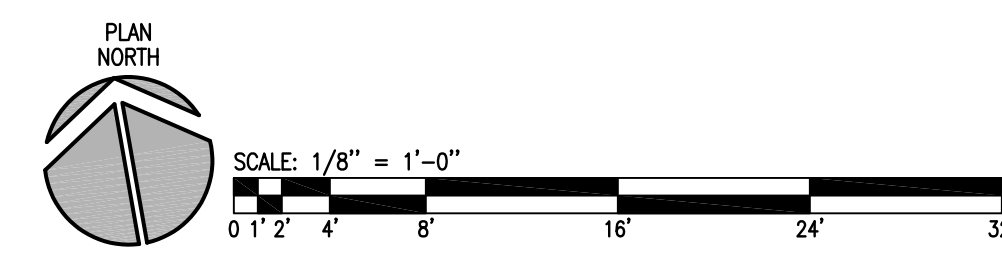
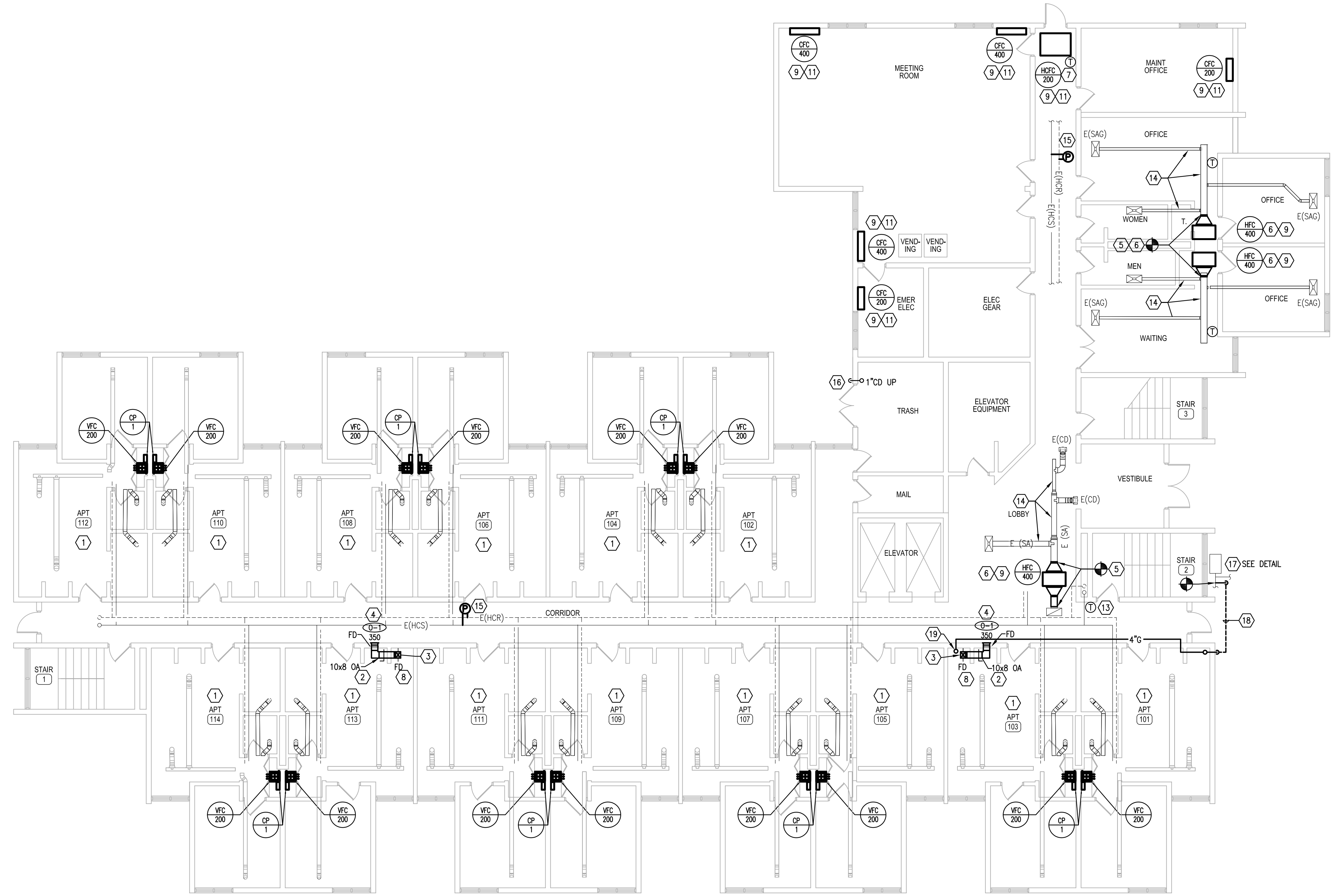
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M3.0

GENERAL NOTES:
A. EXTEND HCS, HCR, AND CONDENSATE PIPING TO NEW UNIT LOCATIONS.

- TAGGED NOTES:**
- REFER TO TYPICAL APARTMENT NEW WORK PLAN.
 - REFER TO TYPICAL OA RISER FOR FLOOR TO FLOOR SIZING.
 - PROVIDE 6"x6" ACCESS DOOR IN DUCT. LOCATE NEAR FLOOR LEVEL SO THAT FIRE DAMPER CAN BE MAINTAINED.
 - ACCESS FIRE DAMPER THROUGH GRILLE.
 - CONNECT TO EXISTING DUCTS.
 - ABOVE CEILING UNIT.
 - EXPOSED UNIT.
 - RELOCATE FIRE PROTECTION HEAD PIPING TO ACCOMMODATE DUCT WORK.
 - CONNECT HCS, HCR AND CONDENSATE TO EXISTING PIPING.
 - NOTE NOTE USED.
 - INSTALL VALVING ABOVE CEILING.
 - NOTE NOT USED.
 - CONCEAL THERMOSTAT WIRE IN WALL.
 - INSTALL INSULATION ON EXISTING DUCT.
 - INSTALL DIFFERENTIAL PRESSURE SENSOR ON EXISTING PIPING. SET VFD TO MAINTAIN DIFFERENTIAL. SEE CONTROLS SPECIFICATIONS.
 - SPILL CONDENSATE TO EXTERIOR TRENCH DRAIN.
 - GAS METER.
 - ROUTE GAS LINE UNDER SIDEWALK.
 - GAS UP TO ROOF.



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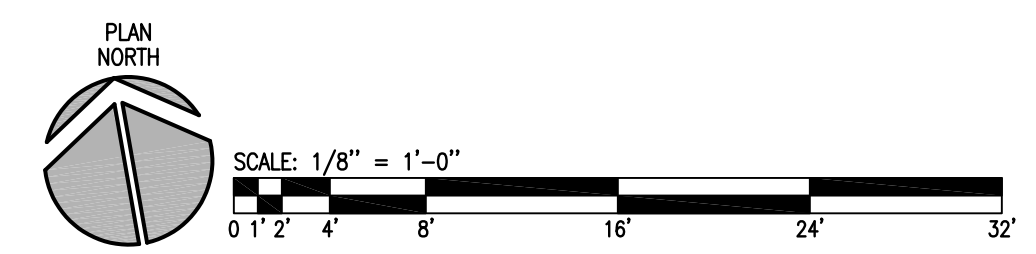
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- TAGGED NOTES:**
- REFER TO TYPICAL APARTMENT NEW WORK PLAN.
 - REFER TO TYPICAL OA RISER FOR FLOOR TO FLOOR DUCT SIZING.
 - PROVIDE 6"x6" ACCESS DOOR IN DUCT. LOCATE NEAR FLOOR LEVEL SO THAT FIRE DAMPER CAN BE MAINTAINED.
 - ACCESS FIRE DAMPER THROUGH GRILLE.
 - INSTALL 1.5" BYPASS VALVE BETWEEN HCS AND HCR.
 - PIPING DOWN IN CHASE.
 - RELOCATE FIRE PROTECTION HEAD AND PIPING TO ACCOMMODATE DUCT WORK.
 - CONNECT HSC, HCR AND CONDENSATE TO EXISTING PIPING.
 - EXISTING EXTERIOR LOUVER TO REMAIN. CAP INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. INSTALL 2" RIGID DUCT INSULATION ON SHEET METAL.
 - INSTALL VALVING ABOVE CEILING.
 - PROVIDE CEILING ACCESS PANEL TO ACCESS VALVING.



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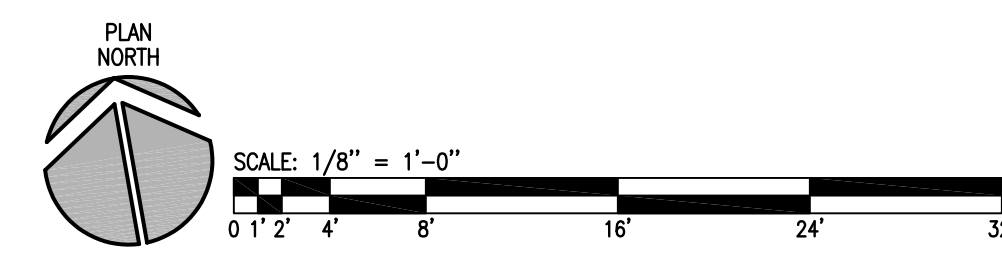
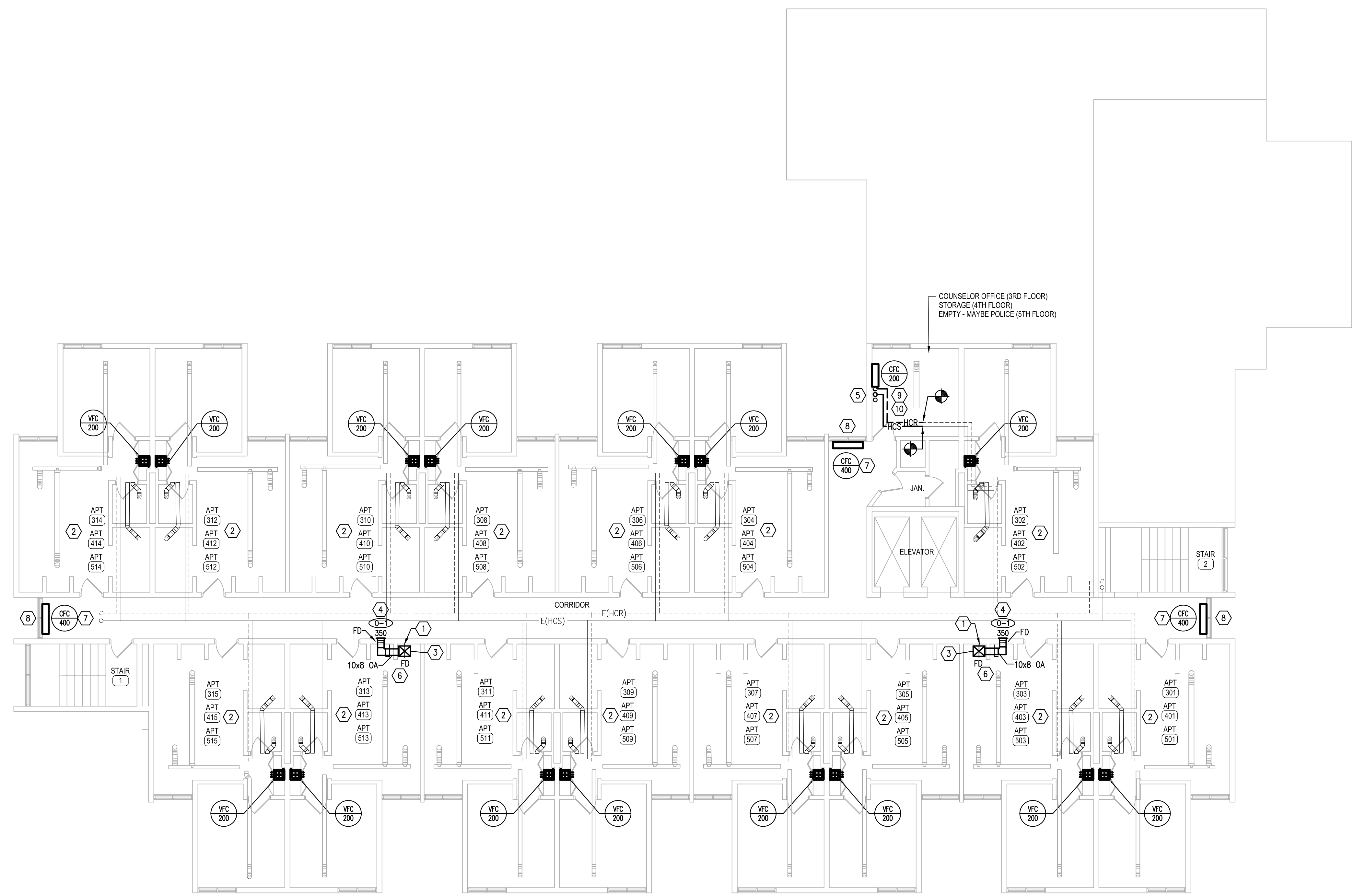
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M3.2

- TAGGED NOTES:
1. REFER TO TYPICAL OA RISER FOR FLOOR TO FLOOR SIZING.
 2. REFER TO TYPICAL APARTMENT NEW WORK PLAN.
 3. PROVIDE 6"x6" ACCESS DOOR IN DUCT. LOCATE NEAR FLOOR LEVEL SO THAT FIRE DAMPER CAN BE MAINTAINED.
 4. ACCESS FIRE DAMPER THROUGH GRILLE.
 5. PIPING DOWN IN CHASE.
 6. RELOCATE FIRE PROTECTION HEAD AND PIPING TO ACCOMMODATE DUCTWORK.
 7. CONNECT HCS, HCR AND CONDENSATE TO EXISTING PIPING.
 8. EXISTING EXTERIOR LOUVER TO REMAIN. CAP INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. INSTALL 2" RIGID DUCT INSULATION ON SHEET METAL.
 9. INSTALL VALVING ABOVE CEILING.
 10. PROVIDE CEILING ACCESS PANEL TO ACCESS VALVING.



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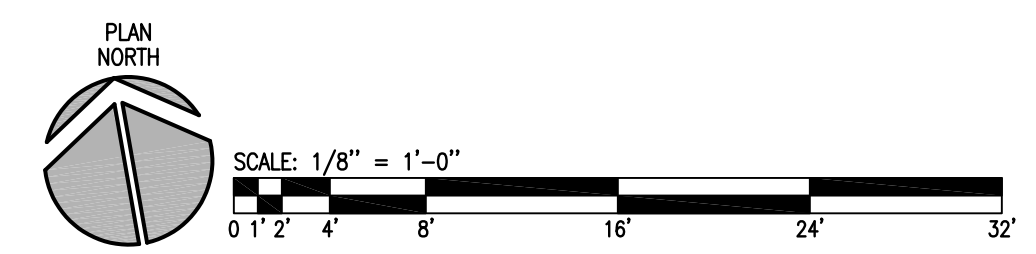
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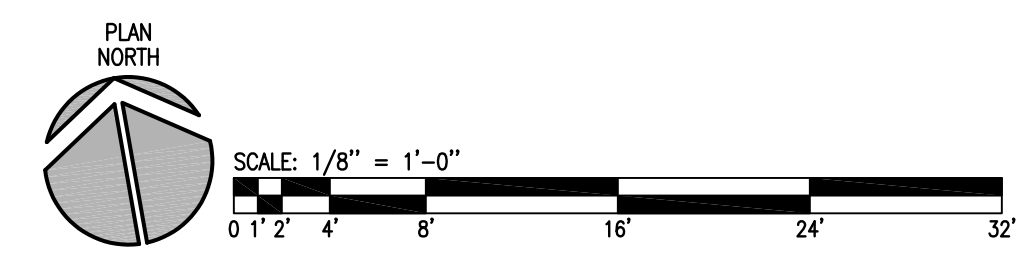
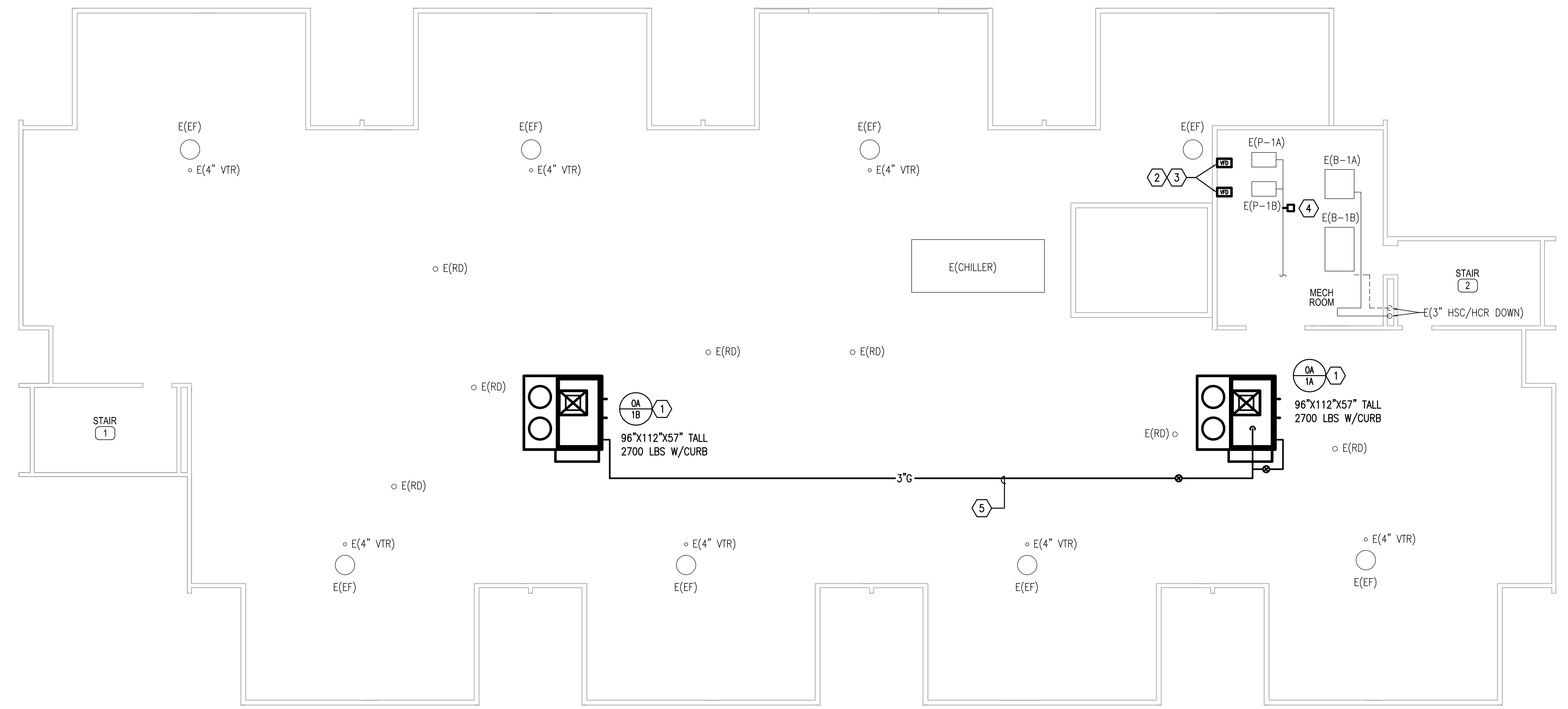
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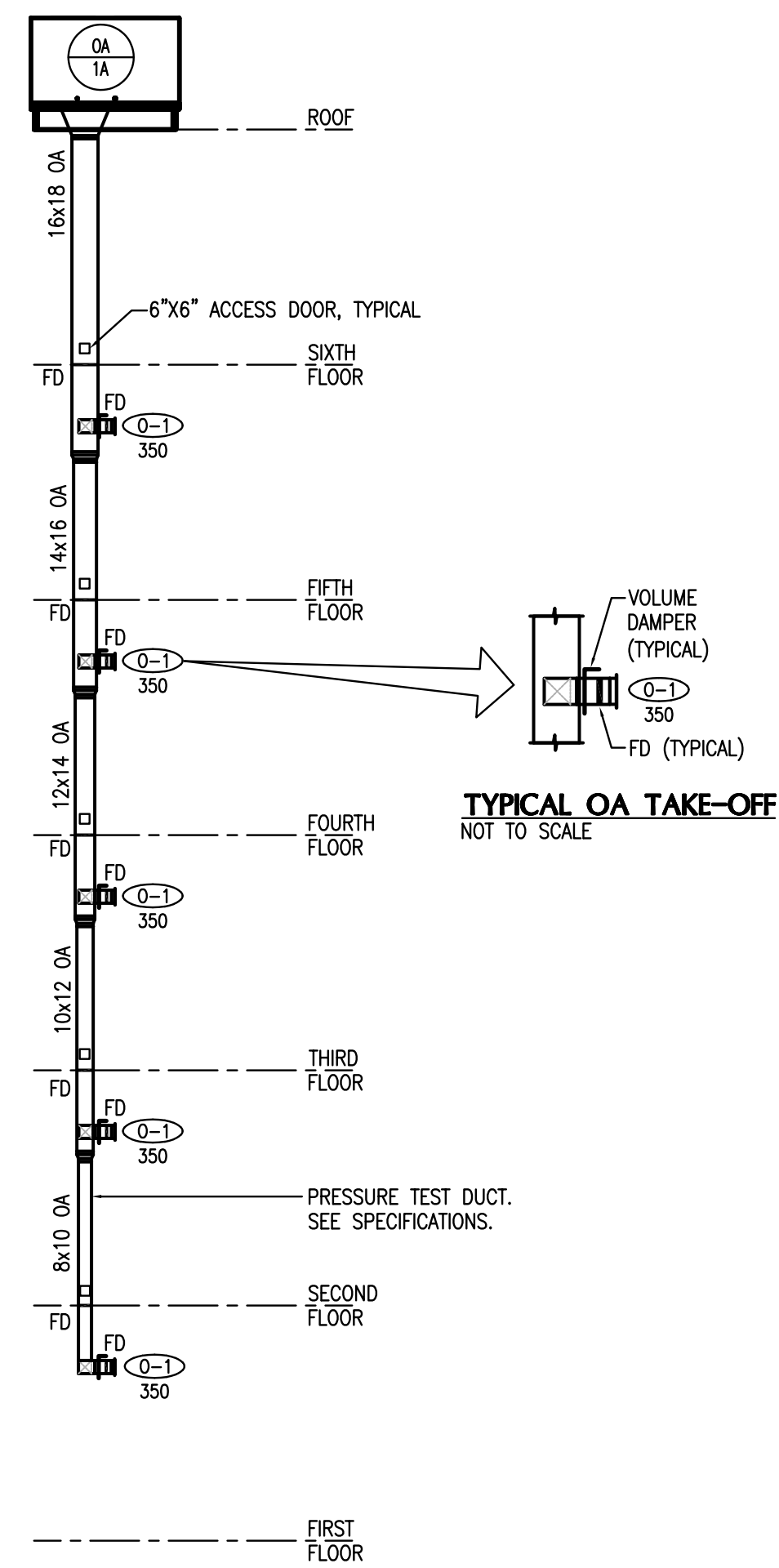
- TAGGED NOTES:**
1. OA DUCT DOWN FROM OA UNIT ON ROOF. SEE OA DUCT RISER.
 2. PRESSURE TEST OA DUCT. REFER TO THE SPECIFICATIONS.
 3. REFER TO TYPICAL APARTMENT NEW WORK PLAN.
 4. PIPING DOWN IN CHASE.
 5. RELOCATE FIRE PROTECTION HEAD PIPING TO ACCOMMODATE DUCT WORK.
 6. CONNECT HCS, HCR AND CONDENSATE TO EXISTING PIPING.
 7. EXISTING EXTERIOR LOUVER TO REMAIN. CAP INTERIOR SIDE WITH SHEET METAL AND SEAL AIR AND WATER TIGHT. INSTALL 2" RIGID DUCT INSULATION ON SHEET METAL.
 8. INSTALL VALVING ABOVE CEILING.
 9. PROVIDE CEILING ACCESS PANEL TO ACCESS VALVING.



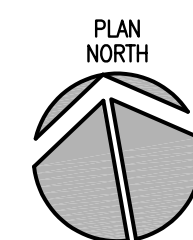
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- TAGGED NOTES:
- COORDINATE PLACEMENT OF NEW ROOFTOP EQUIPMENT WITH EXISTING ROOFTOP EQUIPMENT AND PENETRATIONS.
 - INSTALL VFD FOR PUMP P-1A AND P-1B 7.5 HP, 208/3. FIELD VERIFY HP PRIOR TO SUBMITTING SHOP DRAWINGS.
 - FIELD VERIFY EXACT MOUNTING LOCATION.
 - INSTALL TURBIN METER ON HCS FROM PUMPS. SET MINIMUM FLOW. SEE CONTROLS SPECIFICATIONS.
 - PAINT GAS LINE, MOUNT ON 4"x4"x24" TREATED WOOD SLEEPERS, 10'-0" ON CENTERS. PROVIDE WALK PAD UNDER SLEEPERS.

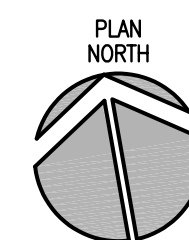
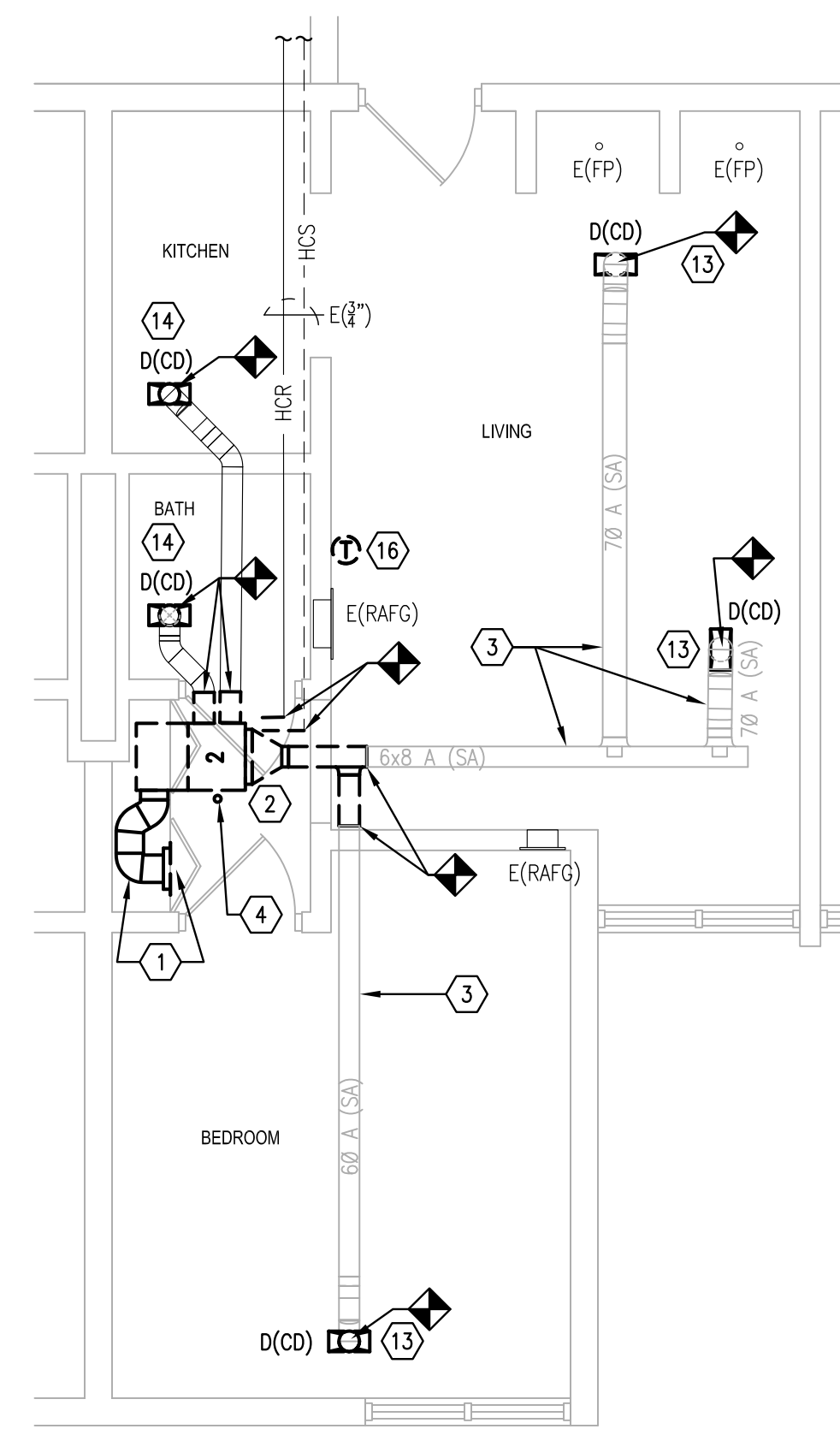
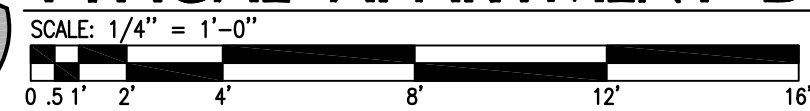




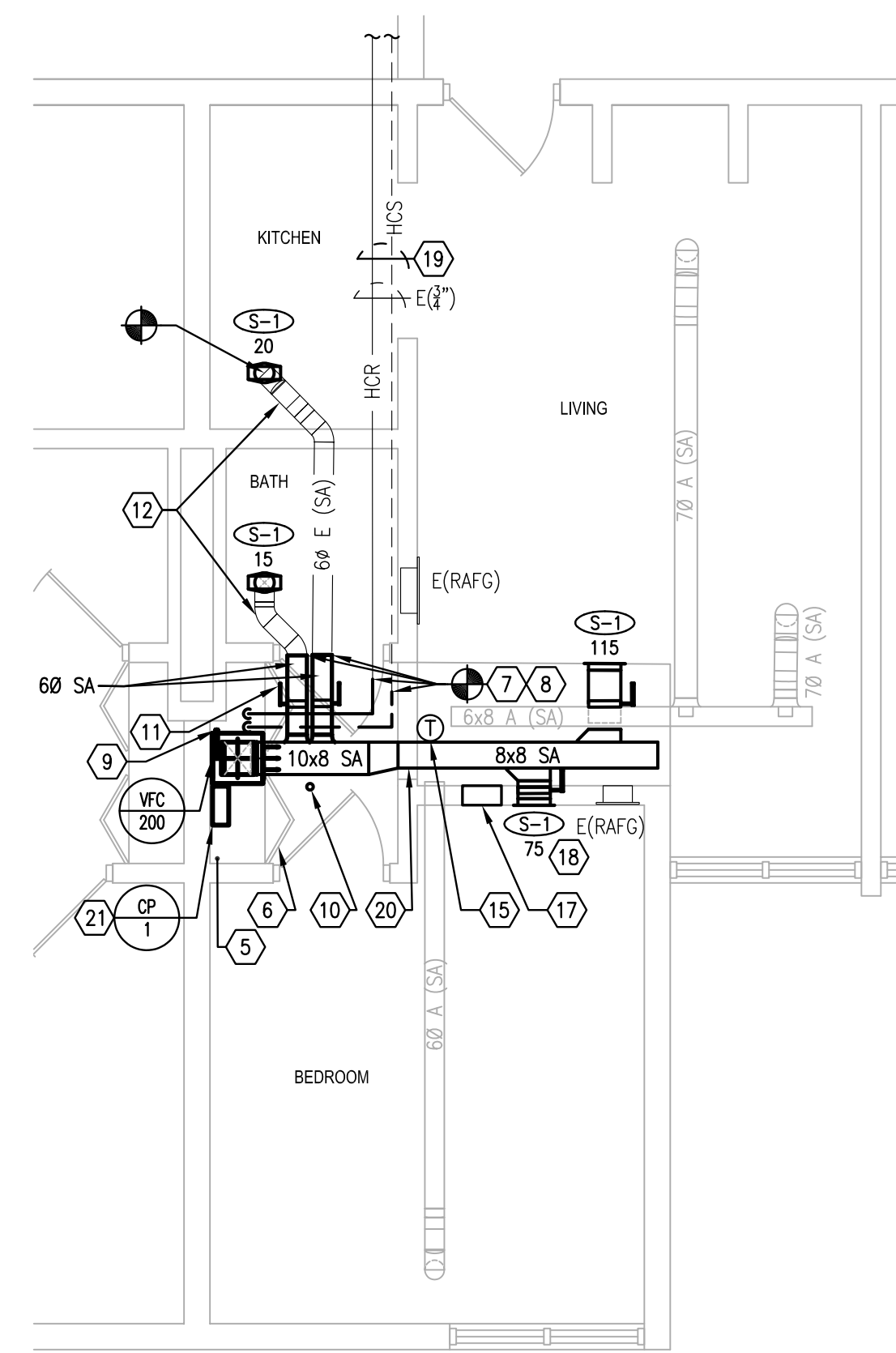
TYPICAL OA DUCT RISER
NOT TO SCALE



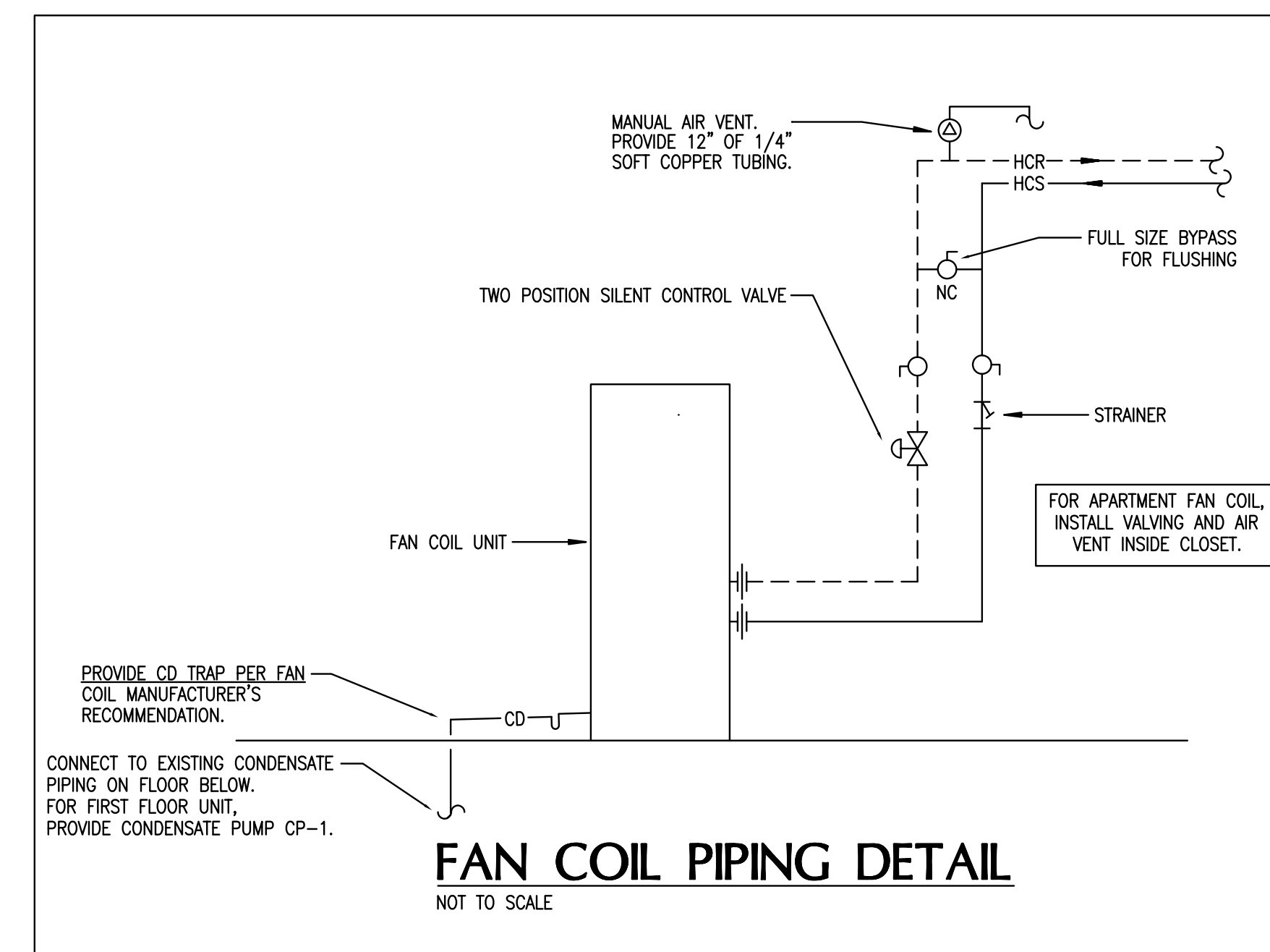
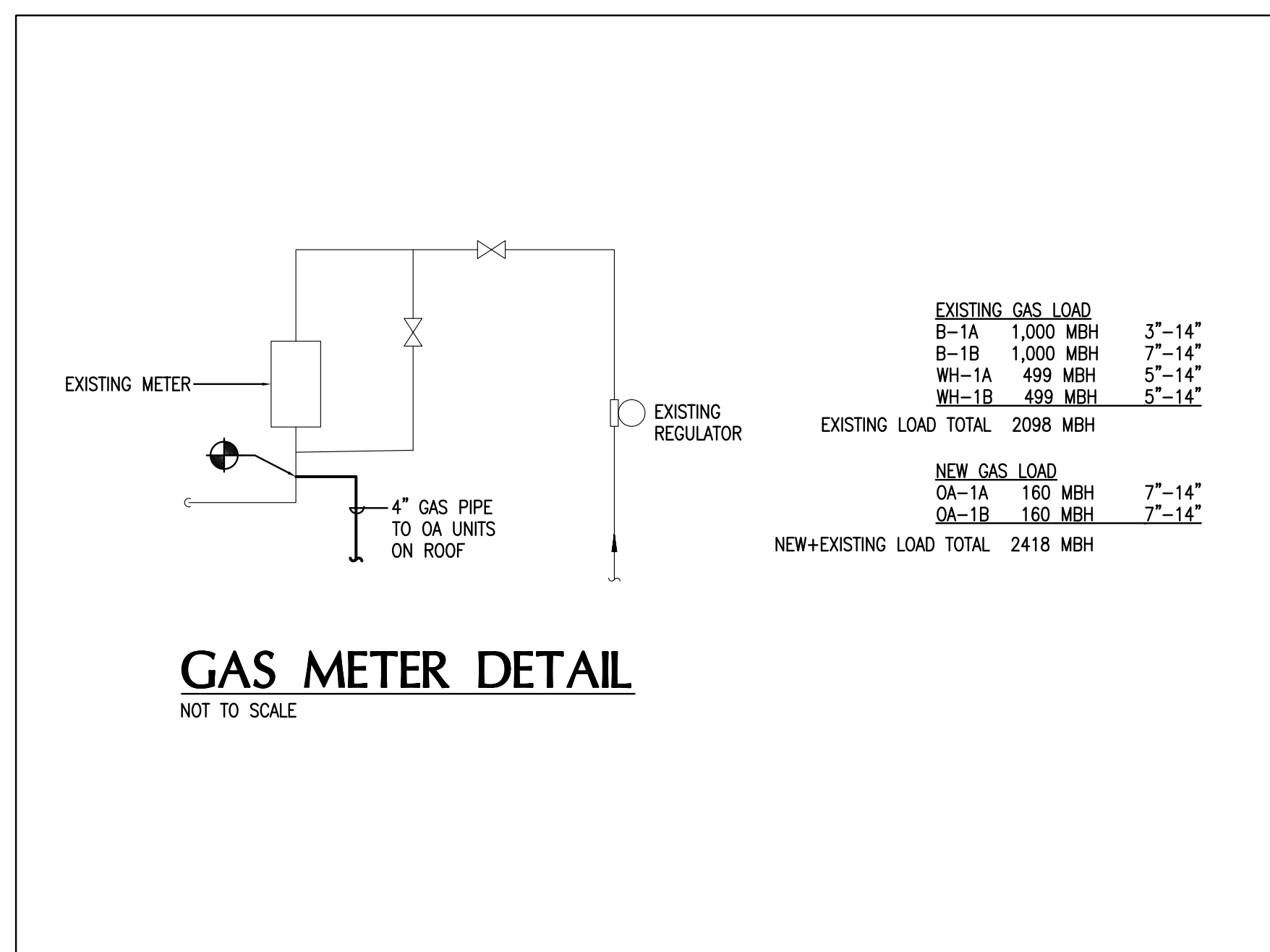
TYPICAL APARTMENT DEMOLITION PLAN



TYPICAL APARTMENT NEW WORK PLAN



- TAGGED NOTES:**
1. REMOVE FILTER GRILLE AND RETURN AIR FLEX DUCT TO FAN COIL UNIT.
 2. REMOVE FAN COIL UNIT.
 3. ABANDON DUCT ABOVE CEILING.
 4. REMOVE EXISTING SPRINKLER HEAD.
 5. CLOSEST INSIDE DIMENSION IS 67" X 20". FIELD VERIFY.
 6. EXISTING LOUVERED BI-FOLD DOORS.
 7. CONNECT EXISTING DUCT TO NEW. PROVIDE VOLUME DAMPER.
 8. CONNECT TO EXISTING HCS AND HCR PIPING.
 9. CONNECT CD TO EXISTING CD IN CEILING BELOW.
 10. EXTEND SPRINKLER HEAD TO NEW CEILING.
 11. VOLUME DAMPER AT EACH DIFFUSER BRANCH TAKEOFF (TYPICAL).
 12. INSTALL INSULATION ON EXISTING DUCTS.
 13. REMOVE DIFFUSERS AND PATCH CEILING.
 14. REMOVE DIFFUSERS AND REPLACE WITH NEW.
 15. ROUTE THERMOSTAT WIRING DOWN INSIDE EXISTING WALL.
 16. REMOVE THERMOSTAT AND PATCH WALL. FIELD VERIFY EXACT LOCATION.
 17. ELECTRICAL PANEL. FIELD VERIFY EXACT LOCATION.
 18. COORDINATE EXACT DIFFUSER LOCATION WITH ELECTRICAL PANEL AND EXISTING RAFG.
 19. REPLACE INSULATION ON HCS AND HCR PIPING IN UNIT AND THROUGH CORRIDOR WALL.
 20. ROUTE NEW SA DUCT THROUGH EXISTING SA DUCT OPENING. ENLARGE OPENING AS NECESSARY FOR NEW DUCT.
 21. FIRST FLOOR ONLY.



JOB NO.	1968/XWEL20
DATE	03-31-2022
DRAWN	KRB
CHECKED	DC

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JOB NO.	1968XWEL20
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FAN COIL SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL #	NOM. CFM	ESP (IN WC)	WEIGHT (LB)	DIMENSIONS (IN)			ELECTRICAL				COOLING CAPACITY								HEATING CAPACITY						CONDENSATE RUNOUT SIZE	HCS & HCR RUNOUT SIZE	REMARKS	
							LENGTH	WIDTH	HEIGHT	MCA	MOP	VOLTAGE	PHASE	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOL CAPACITY (MBH)	EWT (°F)	LWT (°F)	GPM	WPD (IN. WG)	EAT DB (°F)	LAT DB (°F)	HEATING CAPACITY (MBH)	EWT (°F)				LWT (°F)
VFC-200	VERTICAL STACKED	DAIKIN	FSGG04	225	0.20	130	16	16	86	1.2 A	15 A	115 V	1	80.0	56.2	67.0	54.8	8.5	5.9	44	54	1.71	3.24	65.0	154.3	22.0	160.0	140.1	2.21	1.17	1-5
CFC-200	VERTICAL CONSOLE	DAIKIN	FCVC103	200	0.0	94	41	10	25	4.4 A	15 A	115 V	1	80.0	56.3	67.0	55.2	7.3	5.2	44	54	1.5	0.96	70.0	148.6	17.2	160.0	150.1	3.5	3.06	2-6
CFC-400	VERTICAL CONSOLE	DAIKIN	FCVC104	400	0.0	108	46	10	25	4.4 A	15 A	115 V	1	80.0	54.1	67.0	53.9	16.2	11.3	44	54	3.2	4.27	70.0	152.3	36.0	160.0	150.1	7.2	12.83	2-6
HFC-400	HORIZONTAL DUCTED CONCEALED	DAIKIN	FCHZ04	400	0.20	76	21	36	10	4.4 A	15 A	115 V	1	80.0	53.0	67.0	52.8	17.3	11.8	44	54	3.5	4.77	70.0	150.7	35.3	160.0	150.1	7.1	18.18	2-5
HCFC-200	HORIZONTAL EXPOSED CABINET	DAIKIN	FCHC202	200	0.0	83	25	48	14	4.4 A	15 A	115 V	1	80.0	52.9	67.0	52.9	8.6	5.9	44	54	1.7	1.22	70.0	150.9	17.7	160.0	150.1	3.6	3.86	2-5

- REMARKS:
 1. DUCTED UNIT WITH TOP SUPPLY AIR DISCHARGE.
 2. PROVIDE WITH CONDENSATE OVERFLOW PROTECTION.
 3. PROVIDE WITH REMOTE THERMOSTAT.
 4. SEE CONTROLS SPECIFICATIONS FOR REQUIRED SEQUENCE OF CONTROL.
 5. ECM FAN.
 6. FLAT TOP CABINET.

REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
S-1	TITUS	272FS	ALUMINUM AEROBLADE SUPPLY	10"X4"	-	10"X4"	SEE PLANS	125	0.05	20	DOUBLE DEFLECTION	1,2,3
O-1	TITUS	271FL	ALUMINUM AEROBLADE SUPPLY	10"X8"	-	10"X8"	SEE PLANS	350	0.05	20	SINGLE DEFLECTION	1,2

- REMARKS:
 1. COLOR SHALL BE SELECTED BY ARCHITECT.
 2. COORDINATE MOUNTING TYPE (LAY-IN, GYP BOARD, ETC.) WITH ARCHITECTURAL DRAWINGS.
 3. PROVIDE WITH INTEGRAL VOLUME DAMPER.

PUMP SCHEDULE

MARK	MFR. & MODEL	SERVICE	GPM	TDH	VOLT/Ø	FLA	REMARKS
CP-1	LITTLE GIANT VCC20 ULS	FIRST FLOOR APARTMENTS	25	15'	120/1	1.5	ALL

- REMARKS:
 1. 6" CORD
 2. CHECK VALVE.

OUTSIDE AIR HANDLER

MARK	OA-1A&B
DAIKIN MODEL	DPS015A
DIMENSION	91" X 96.5" X 56.8" TALL
WEIGHT	2531 LBS
SUPPLY AIR (CFM)	2100
EXTERNAL STATIC PRESSURE (IN)	1.6
UNIT DISCHARGE °F DB/°F WB	56.5/55.6
EER	10.9
MOTOR HORSEPOWER	4.0
VOLT/PHASE	208/3Ø
MCA	67.1
M COP	90

DX COOLING COIL (95F DB/78F WB EAT)

TOTAL COOLING CAPACITY (MBH)	177.5
SENSIBLE COOLING CAPACITY (MBH)	192.8
LAT °F DB/°F WB	55.2/55.2
MOISTURE REMOVAL (LB/HR)	69.2

HOT GAS RE-HEAT COIL

TOTAL CAPACITY (MBH)	34.6
LAT °F DB/°F WB	70.0/60.5

GAS HEAT (OF DB EAT)

CAPACITY (MBH)	160
LAT °F	69.5
GAS PRESSURE °W.G. (MIN/MAX)	7/14

- REMARKS:
 1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
 2. PROVIDE 14" ROOF CURB.
 3. UNIT TO BE DOWNFLOW CONFIGURATION.
 4. PROVIDE NEC DISCONNECT.
 5. PROVIDE DUCT MOUNTED HUMIDITY SENSOR.
 6. PROVIDE UNIT MOUNTED 120V GFCI OUTLET POWERED SEPARATELY FROM UNIT.
 7. HAIL GUARDS.

GENERAL NOTES (APPLICABLE TO ALL WORK AND DOCUMENTS):

- EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEERS.
- ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC., AT LEAST TEN DAYS PRIOR TO BID DATE TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- DEVIATION FROM SPECIFICATIONS OF PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. (SEE ALSO NOTE 21).
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)
- INSTALL EQUIPMENT, MATERIALS, ETC., IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
- DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING, AS REQUIRED BY CODES. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
- ALL WORK, MATERIALS, EQUIPMENT, ETC., SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEERS, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
- UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
- WHERE PENETRATING NEW/EXISTING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC.)
- COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
- UNLESS OTHERWISE SPECIFIED OR INDICATED, INSTALL LIGHT FIXTURES, SMOKE DETECTORS, SPEAKERS AND OTHER CEILING MOUNTED APPURTENANCES IN THE CEILING IN A SYMMETRICAL PATTERN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2' X 2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2' X 4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION, AS INDICATED.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- CHECK ALL THREE PHASE MOTORS WITH 0 ROTATION METER, PRIOR TO PLACING IN SERVICE.
- PROVIDE DETAILED SHOP DRAWINGS TO ENGINEERS PRIOR TO PURCHASING AND INSTALLING ANY EQUIPMENT.
- DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC., FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS', SUPPLIERS, INSTALLERS, ETC., POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEMS, CONTACT THE ENGINEERS BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS, AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
- WHERE FIRE RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE RATED, APPROVED GYPSUM BOARD ENCLOSURES ABOVE LIGHT FIXTURES, CEILING DEVICES, ETC., IN OR ON CEILING, TO MAINTAIN CEILING RATINGS.
- COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC., WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT. UNLESS WAIVED BY THE ENGINEER IN WRITING.
- ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
- ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. SUPPORTING FROM CROSS BRACING OR ROOF DECK WILL NOT BE ALLOWED.
- WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
- REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT THE ENGINEER FOR DIRECTION PRIOR TO INSTALLING WORK.
- FLUSH OR PEDESTAL - TYPE FLOOR OUTLETS, AS INDICATED ON PLAN SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
- AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREA INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
- WHERE EXIT LIGHTS ARE CONNECTED TO EMERGENCY CIRCUITS WITH KEYSWITCH OR CONTACTOR CONTROL, AN UNSWITCHED LINE SHALL BE PULLED IN TO MAINTAIN THEIR OPERATION REGARDLESS OF SWITCH POSITION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORD WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEERS FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF THE ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT AND SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC., TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
- WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
- ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLEVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
- REFER TO ARCHITECTURAL DETAILS AS APPLICABLE FOR RECESSED SOFFIT FLUORESCENT FIXTURES. ADJUST FIXTURE LENGTHS BY FIELD MEASUREMENT OF SOFFIT, AS NECESSARY.
- WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF A PARTY WALL, THE OUTLETS SHALL NOT BE INSTALLED IN THE SAME STUD SPACE, BUT SHALL BE SEPARATED BY A MINIMUM OF ONE STUD.
- ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
- ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED, IF IN DOUBT, CONTACT THE ENGINEERS FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
- DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

GENERAL NOTE:
THIS CONTRACTOR MUST REFER TO DIVISION 1 SPECIFICATIONS FOR ALLOWANCES THAT MUST BE INCLUDED BY THIS CONTRACTOR.

SYSTEM	ITEM	DEVICE MODEL & REFER TO SPEC'S IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO BOTTOM OF BOX)	DRAWING SYMBOL
SWITCH-EB	LIGHT SWITCH: GENERAL PURPOSE			44"	S
	PLOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)			44"	S P L
	DIMMER SWITCH			44"	S D
	THREE-WAY SWITCH			44"	S 3
	FOUR-WAY SWITCH			44"	S 4
	KEYED SWITCH			44"	S K
	TIMER SWITCH 0-15 MIN			44"	S T
	MOMENTARY CONTACT SWITCH			44"	S MC
	LIGHT SWITCH W/ INTEGRAL INFRARED MOTION SENSOR AND AUTO/MANUAL ON/OFF OPERATION	NOVITAS #11-299		44"	S MD
	OCCUPANCY SENSOR	UNICO P1R-100P		44"	S OS
	FAN SPEED CONTROL SWITCH	AS NOTED		44"	S F
	PHOTO-CELL AS NOTED	AS NOTED		AS NOTED	OS
	CEILING MOUNTED DOME OCCUPANCY SENSOR				OS
	CORNER MOUNTED DOME OCCUPANCY SENSOR				OS
	LIGHTING	FLUORESCENT WALL MOUNT	SEE SCHEDULE		7'-0" or AS NOTED
2' x 2' FLUORESCENT TROFFER		SEE SCHEDULE		CEILING	
2' x 4' FLUORESCENT TROFFER		SEE SCHEDULE		CEILING	
DOWNLIGHT		SEE SCHEDULE		CEILING	
INDUSTRIAL STRIP FIXTURE		SEE SCHEDULE		CEILING	
EXIT LIGHT - CEILING MOUNT, WALL MOUNT (SHADED AREA REPRESENTS FACE OF EXIT SIGN)		SEE SCHEDULE MINIMUM 8'-0" A.F.F.		AS NOTED	
UNDERCABINET		SEE SCHEDULE		AS NOTED	
LINEAR DIRECT/INDIRECT		SEE SCHEDULE		AS NOTED	
LIGHTING RELAY		SEE SCHEDULE		AS NOTED	
EMERGENCY LIGHT BATTERY					
NOTE: FOR CARBORON NIGHT LIGHT FIXTURES (SAME AS BE-LEVEL SWITCH W/ SOLE NIGHT LIGHT)					
POWER OUTLETS	SMPLX			1'-4"	
	DUPLEX - SAFETY TYPE			1'-4"	S
	DUPLEX			1'-4"	
	DUPLEX (ABOVE COUNTERTOPS) WHEN NOT ASSOCIATED WITH CASEWORK			6" A.C.T. (or 44")	
	DUPLEX WITH INTEGRAL GROUND FAULT PROTECTION			1'-4"	GF
	GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE UNDER FLOORING CIRCUIT IS 277V)			44"	C/S
	QUADRUPEX RECEPTACLE			1'-4"	
	JUNCTION BOX			AS NOTED	
	208/1 DRYER RECEPTACLE, NEMA 14-30R	HUBBELL #3430A		44"	
	208/3 RECEPTACLE, AS NOTED			1'-4"	
	DUPLEX - IN KITCHEN (ABOVE FLOOR)			FLOOR	
	DUPLEX - SURGE SUPPRESSOR TYPE			1'-4"	SS
	DUPLEX - WITH LOCKABLE, DIE CAST WEATHERPROOF COVER (INTERMATIC #WP1010MC OR APPROVED EQUAL)			24"	WP GF
	2-GANG RECESSED, MULTI-SERVICE FLOOR BOX FOR INSTALLATION IN WOOD FLOORING. PROVIDE FLOOR OUTLET WITH LEFT LID FOR OUTLET ACCESS. UNIT SHALL HOUSE ONE DUPLEX OUTLET, AND ONE MICRO-PHONE OUTLET. FLOOR BOX SHALL BE WAUKER # BOW-4270- 600V (AS/SPRING) OR APPROVED EQUAL. PROVIDE COMPLETE WITH BRASS FLANGE AND NECESSARY ACCESSORIES.			FLOOR	
	DUPLEX RECEPTACLE IN FLOOR				P
QUADRUPEX RECEPTACLE IN FLOOR				GF	

SLASHED INDICATES RECESSED

SHADING INDICATES EMERGENCY OPERATION

FIGURE TO BE UNLOCKED FOR NIGHT LIGHTING

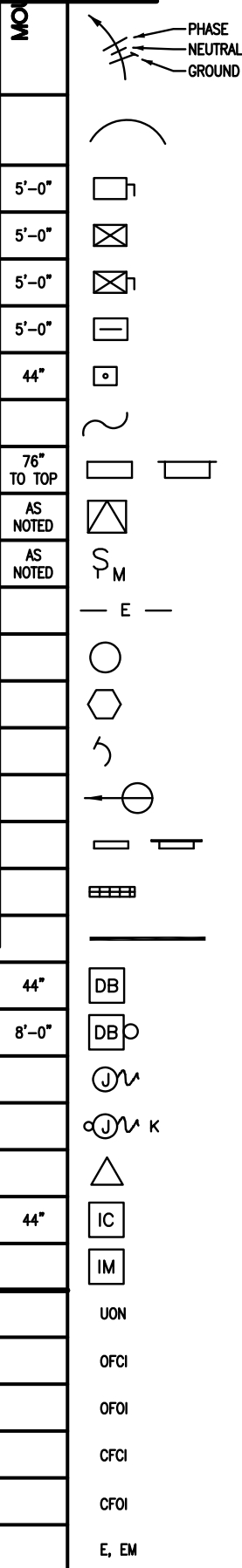
FIGURE TO BE SWITCHED/UNSWITCHED NIGHT LIGHTING

SWITCHED

UNSWITCHED

SYSTEM	ITEM	DEVICE MODEL & REFER TO SPEC'S IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO BOTTOM OF BOX)	DRAWING SYMBOL
MISC	CONDUIT CONCEALED IN WALLS OR IN ABOVE CEILING; ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS; HASHMARKS INDICATE # OF CONDUCTORS				
	DASHED LINES INDICATED CONDUIT SHALL BE ROUTED UNDERSLAB OR AS OTHERWISE NOTED. (SEE SPECIFICATIONS FOR DETAILS)				
	DISCONNECT SWITCH			5'-0"	
	MAGNETIC STARTER			5'-0"	
	MAGNETIC COMBINATION STARTER			5'-0"	
	ENCLOSED FLUSH MTD. CIRCUIT BREAKER			5'-0"	
	PUSHBUTTON STATION			44"	
	FLEXIBLE CONDUIT (SEE SPECIFICATIONS FOR TYPES PERMITTED)				
	NORMAL PANELBOARD, SURFACE OR FLUSH MOUNTED			76" TO TOP	
	TRANSFORMER			AS NOTED	
	MANUAL MOTOR STARTER - STARTER SWITCH	SQUARE D CLASS 2510		AS NOTED	S M
	EMERGENCY POWER CIRCUIT				E -
	EQUIPMENT # INDICATOR				
	TAGGED NOTE				
	3/4" EMT CONDUIT (U.G.) STUB UP ABOVE SUSPENDED CEILING (SEE DETAILS)				
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)					
TERMINAL CABINET SURFACE OR FLUSH MOUNTED AS NOTED					
CABLE TRAY AS NOTED					
BRIDLE RING / HOOK CABLE PATH	SEE DETAILS				
DOORBELL PUSHBUTTON (NO-TONE)	AS NOTED		44"	DB	
DOOR BELL AUDIAL/VISUAL (NO-TONE)	AS NOTED		8'-0"	DB D	
EQUIPMENT HARDWARE CONNECTION (SEE DETAIL)					
EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)					
REVISION NOTE					
INTERCOM/VIDEO REMOTE STATION (APPHONE)	AS NOTED		44"	IC	
INTERCOM/VIDEO MASTER STATION (APPHONE)	AS NOTED			IM	
UNLESS OTHERWISE NOTED:					
OWNER FURNISHED, CONTRACTOR INSTALLED				OFI	
OWNER FURNISHED, OWNER INSTALLED				OFI	
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED				CFI	
CONTRACTOR FURNISHED, OWNER INSTALLED				CFI	
INDICATES EMERGENCY POWER					

ABBREVIATIONS



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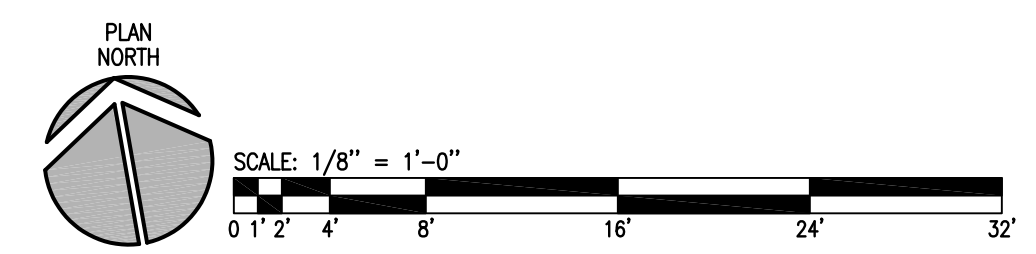
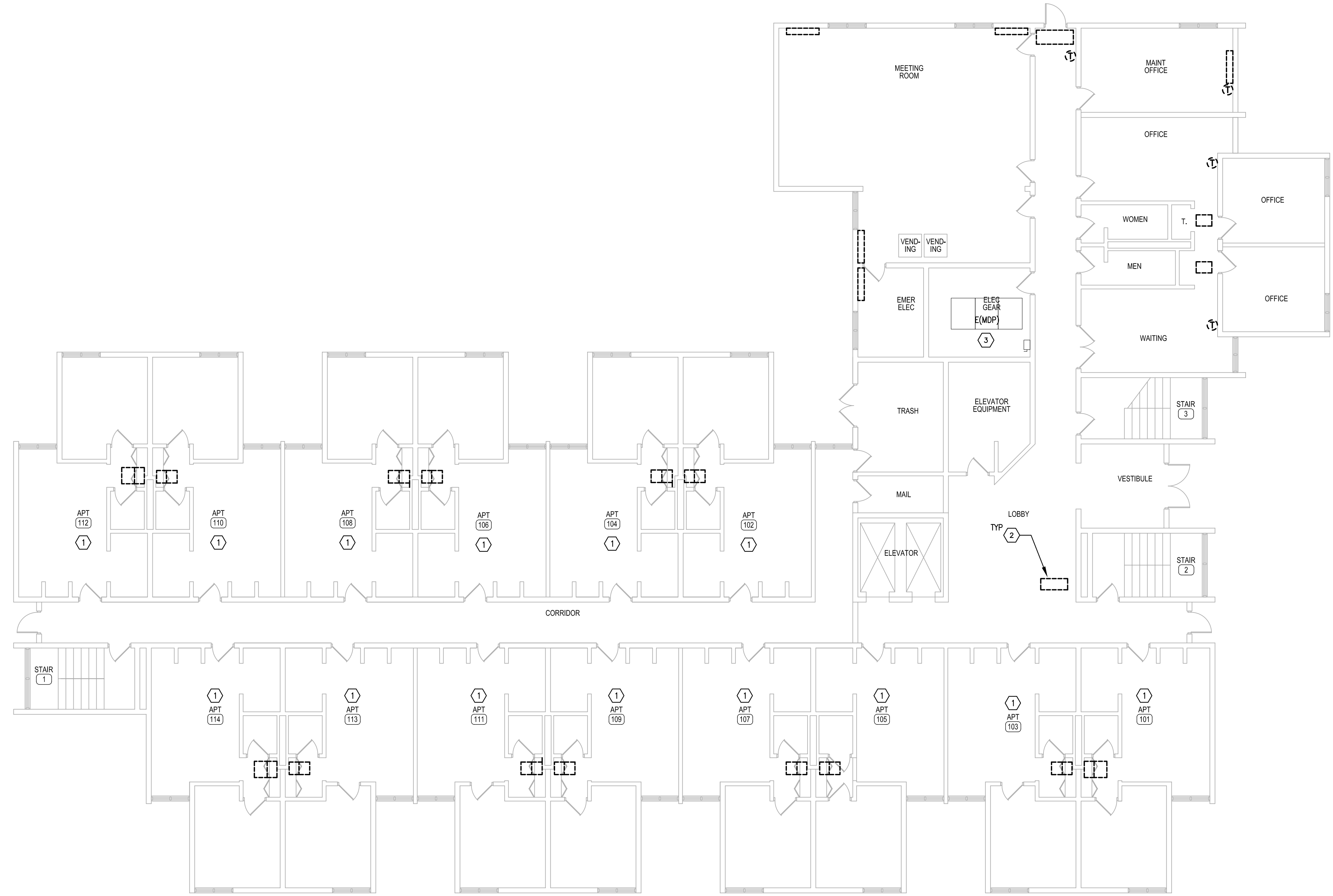
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E2.0

- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE ELECTRICAL CONNECTION TO EXISTING HVAC UNIT, CONDUIT, CONDUCTORS, ETC. TO REMAIN FOR CONNECTION TO NEW UNIT.
 3. EXISTING FEDERAL PACIFIC FUSED SWITCHBOARD. REFER TO NEW WORK PLANS FOR REQUIRED MODIFICATIONS.



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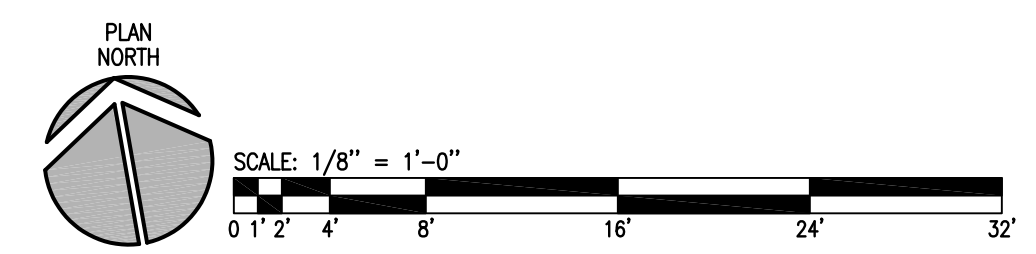
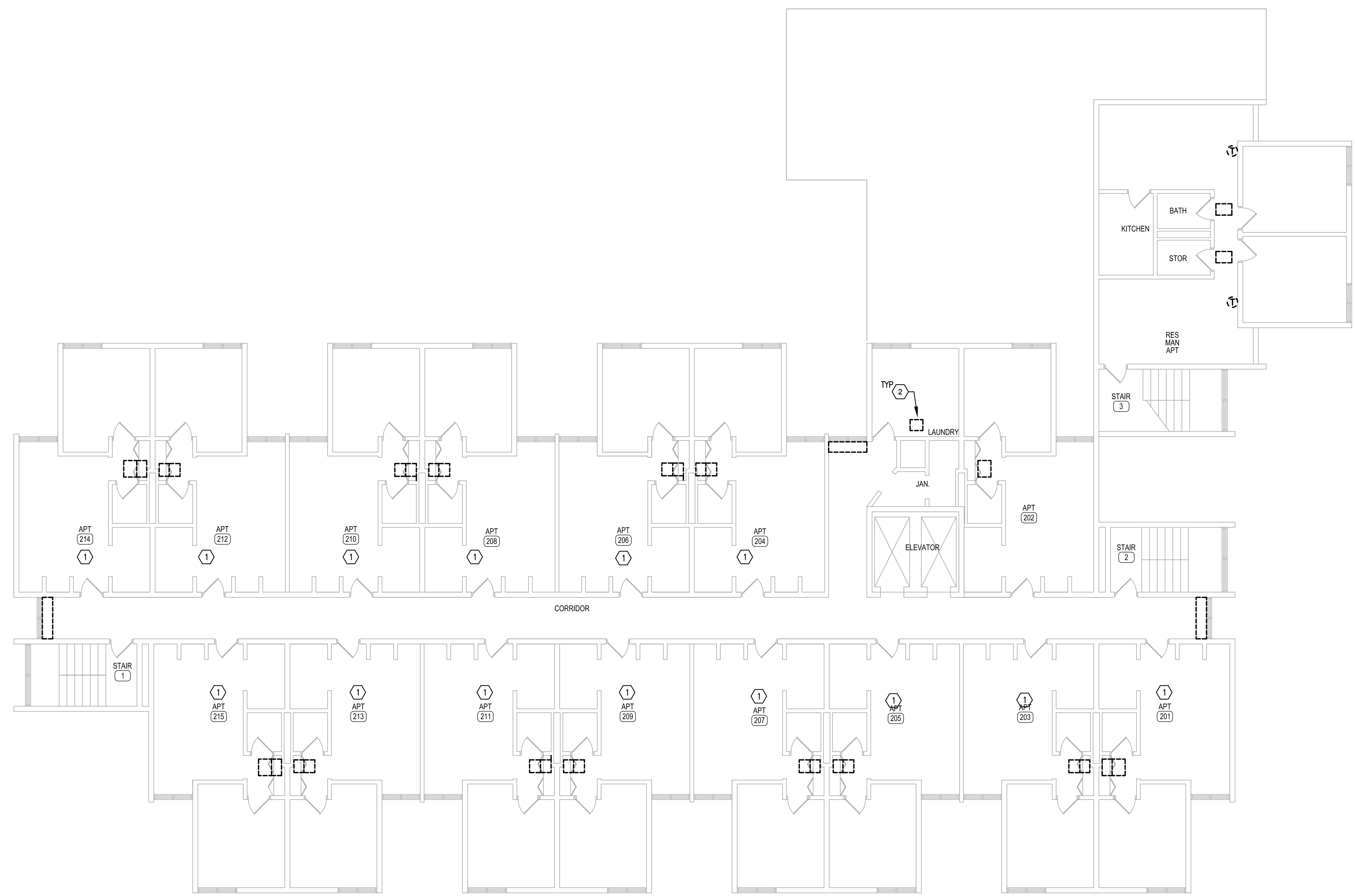
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E2.1

- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE ELECTRICAL CONNECTION TO EXISTING HVAC UNIT, CONDUIT, CONDUCTORS, ETC. TO REMAIN FOR CONNECTION TO NEW UNIT.



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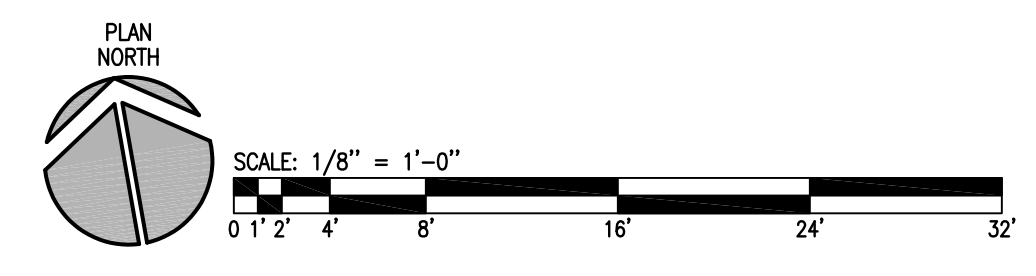
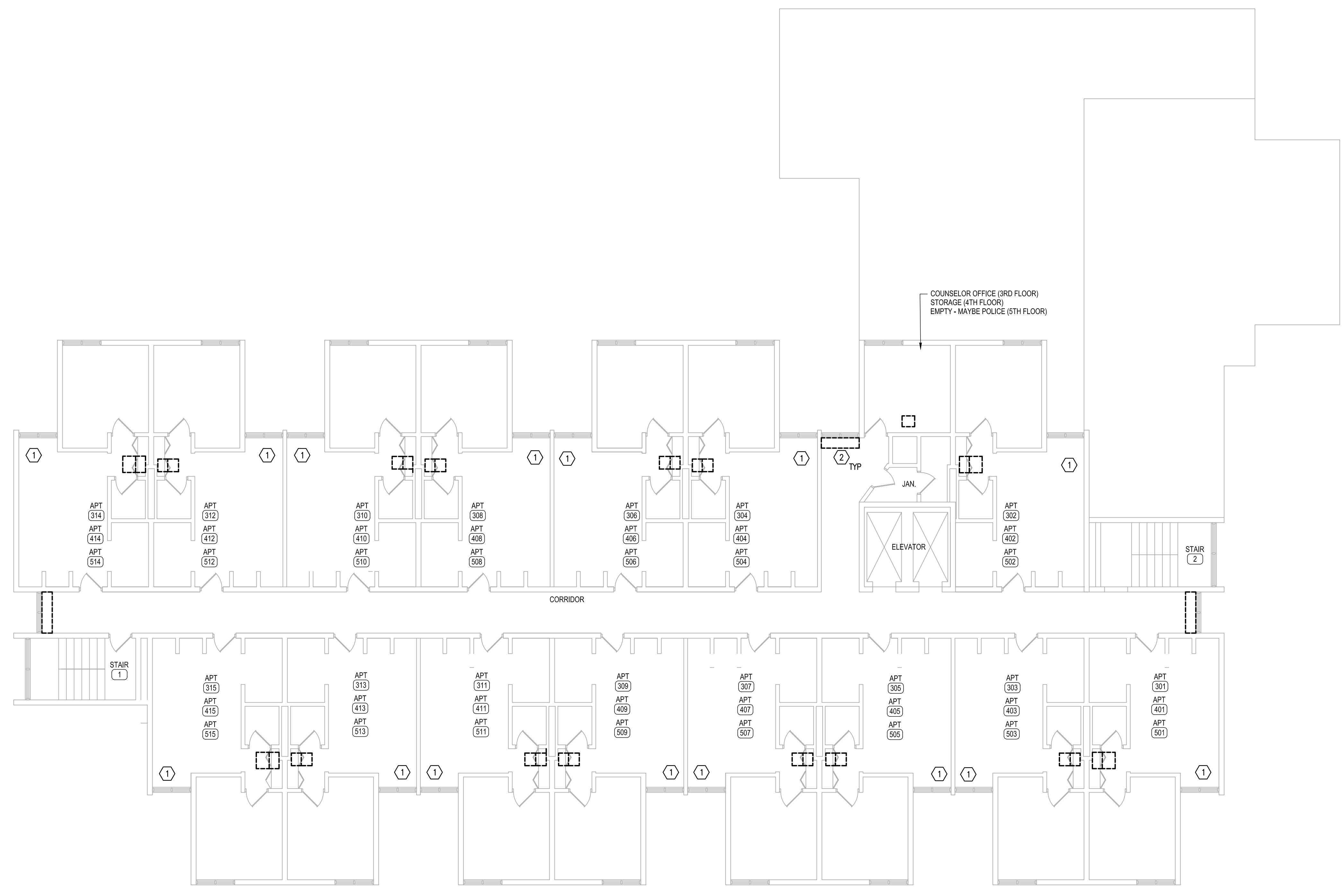
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E2.2

- TAGGED NOTES:**
- REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 - REMOVE ELECTRICAL CONNECTION TO EXISTING HVAC UNIT. CONDUIT, CONDUCTORS, ETC. TO REMAIN.



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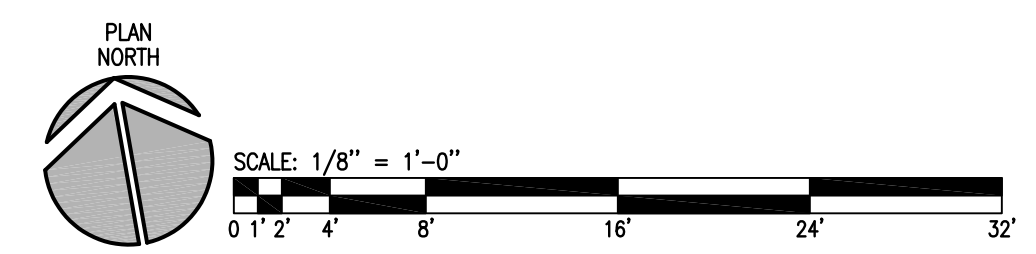
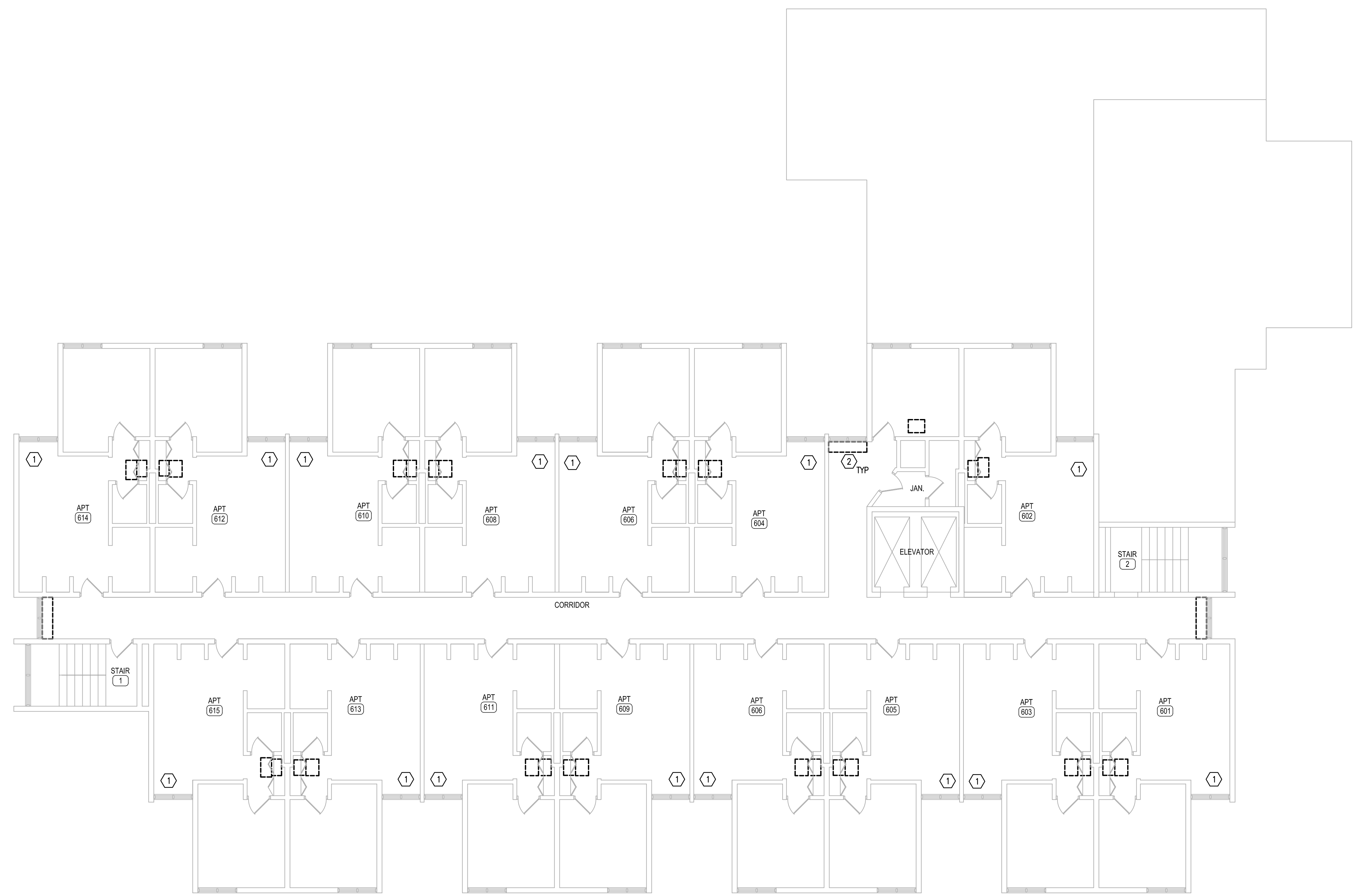
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E2.3

- TAGGED NOTES:
1. REFER TO TYPICAL APARTMENT DEMOLITION PLAN.
 2. REMOVE ELECTRICAL CONNECTION TO EXISTING HVAC UNIT. CONDUIT, CONDUCTORS, ETC. TO REMAIN.

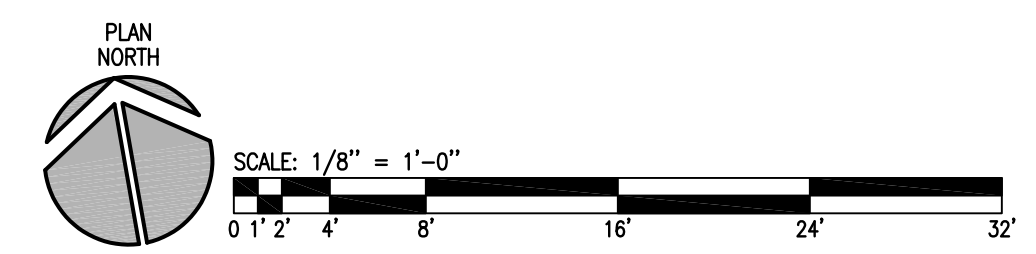
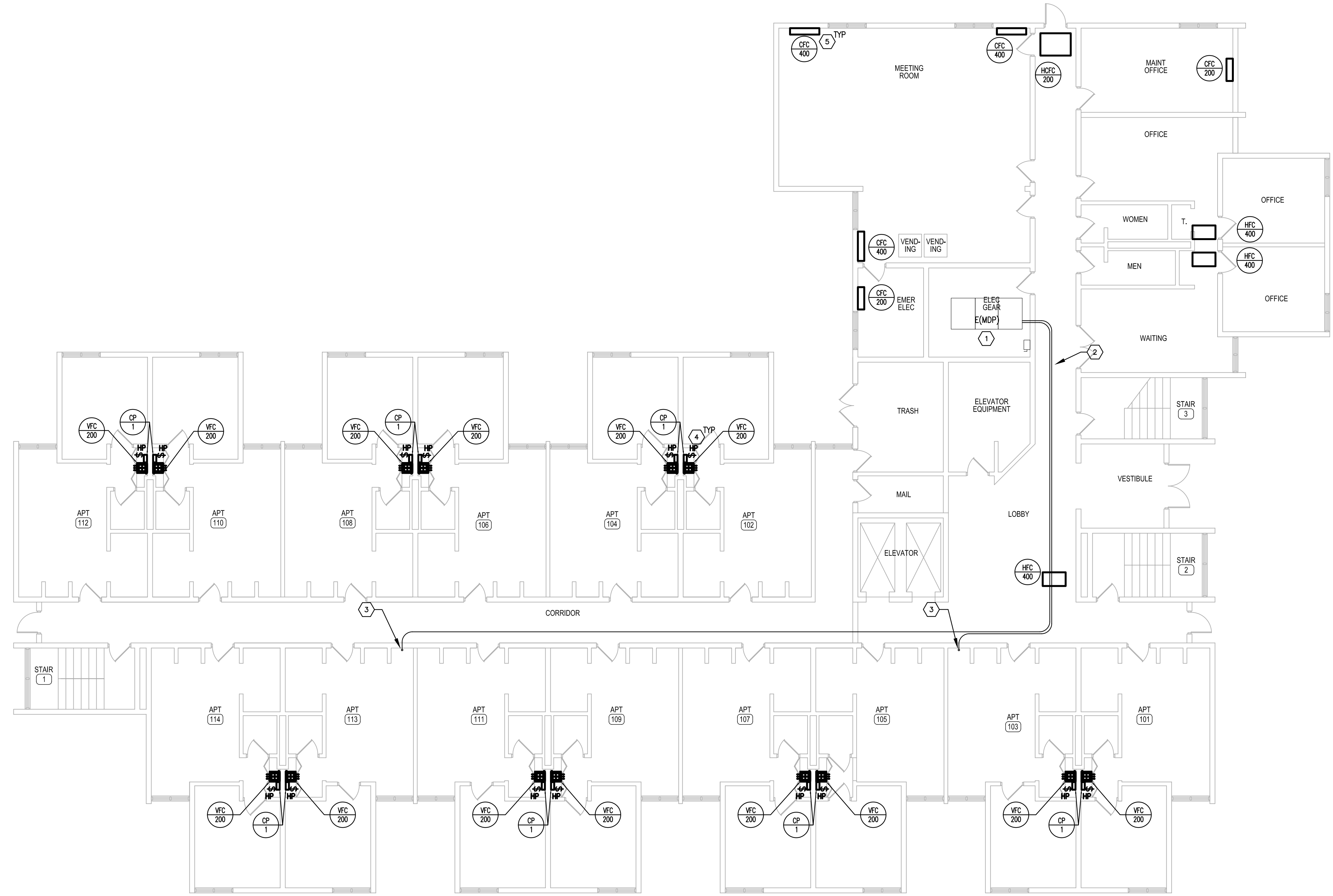


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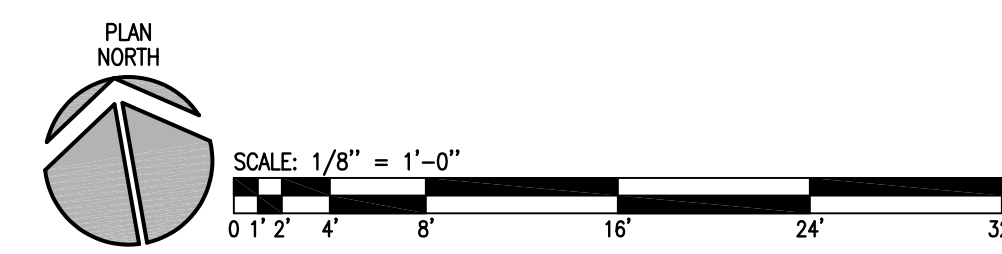
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- TAGGED NOTES:
1. PROVIDE TWO NEW 90A/3P BREAKERS IN EXISTING SPACE OF EXISTING FEDERAL PACIFIC FUSED SWITCHBOARD. PROVIDE NEW CUSTOM COMPONENTS AS REQUIRED FOR INSTALLATION OF NEW BREAKERS. EATON IS BASIS OF DESIGN FOR NEW COMPONENTS.
 2. ROUTE CONDUIT ABOVE CEILING TO HVAC CHASE TO NEW ROOFTOP HVAC UNITS. CONTRACTOR SHALL FIELD VERIFY ROUTE INCLUDING ALL BENDS, TURNS, PULLBOXES, ETC. REQUIRED.
 3. TURN CONDUIT UP INTO HVAC CHASE. COORDINATE WITH DUCT INSTALLER FOR INSTALLATION OF CONDUIT.
 4. POWER FOR CP-1 (FIRST FLOOR ONLY). EXTEND EXISTING CIRCUIT SERVING NEW VFC-200 TO MOTOR RATED SWITCH FOR NEW CP-1. VFC-200 AND CP-1 SHALL BE FED FROM SAME CIRCUIT.
 5. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO NEW UNIT, SAME CIRCUIT THAT WAS SERVING DEMOLISHED EQUIPMENT IN SAME LOCATION.



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- TAGGED NOTES:
1. CONDUIT PATH UP HVAC CHASE TO ROOFTOP HVAC UNIT.
 2. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO NEW UNIT, SAME CIRCUIT THAT WAS SERVING DEMOLISHED EQUIPMENT IN SAME LOCATION.
 3. EXTEND CIRCUIT TO NEW CFC-200 FROM NEAREST CFC-200 IN ADJACENT CORRIDOR.

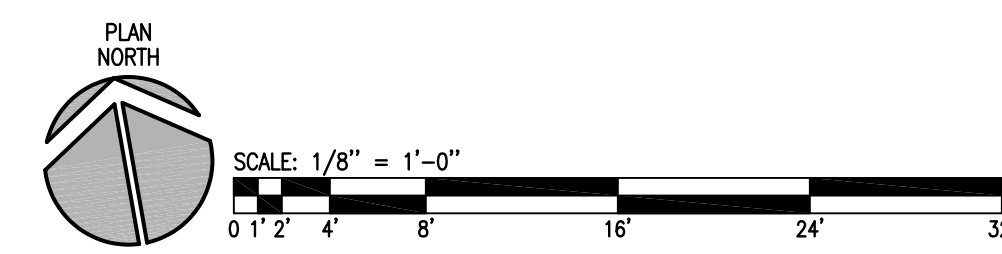
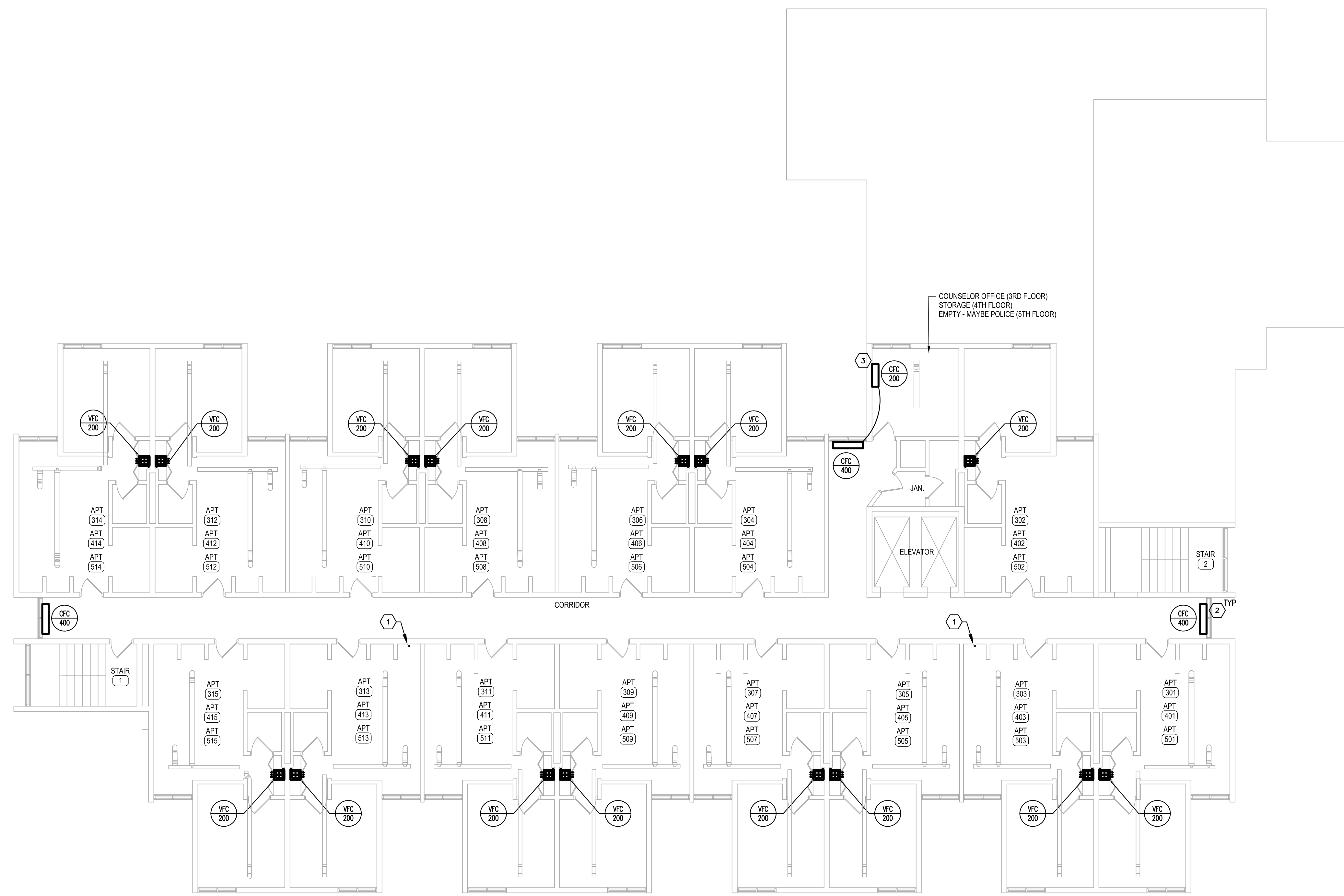


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- TAGGED NOTES:
1. CONDUIT PATH UP HVAC CHASE TO ROOFTOP HVAC UNIT.
 2. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO NEW UNIT, SAME CIRCUIT THAT WAS SERVING DEMOLISHED EQUIPMENT IN SAME LOCATION.
 3. EXTEND CIRCUIT TO NEW CFC-200 FROM NEAREST CFC-200 IN ADJACENT CORRIDOR.



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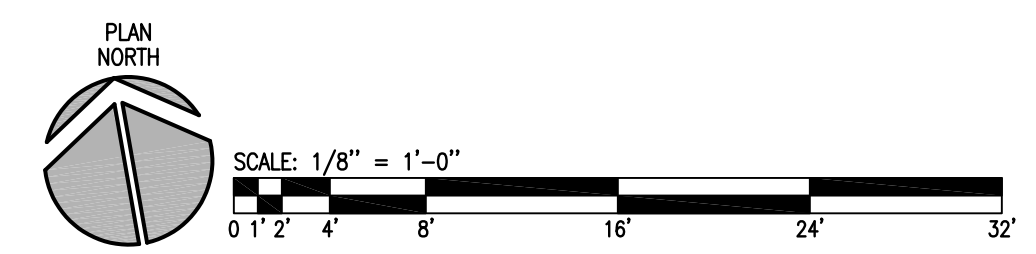
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E3.3

- TAGGED NOTES:**
1. CONDUIT PATH UP HVAC CHASE TO ROOFTOP HVAC UNIT.
 2. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO NEW UNIT, SAME CIRCUIT THAT WAS SERVING DEMOLISHED EQUIPMENT IN SAME LOCATION.
 3. EXTEND CIRCUIT TO NEW CFC-200 FROM NEAREST CFC-200 IN ADJACENT CORRIDOR.

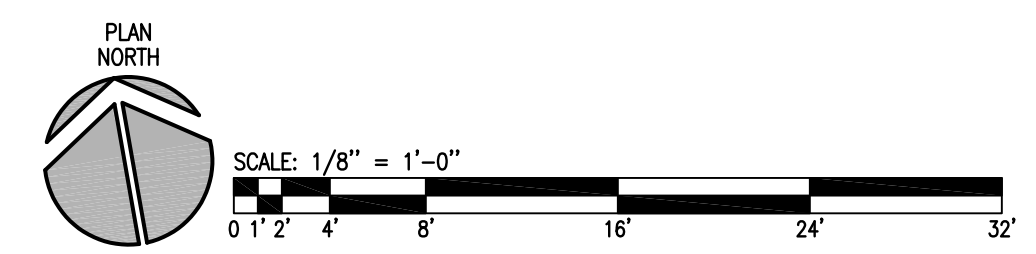
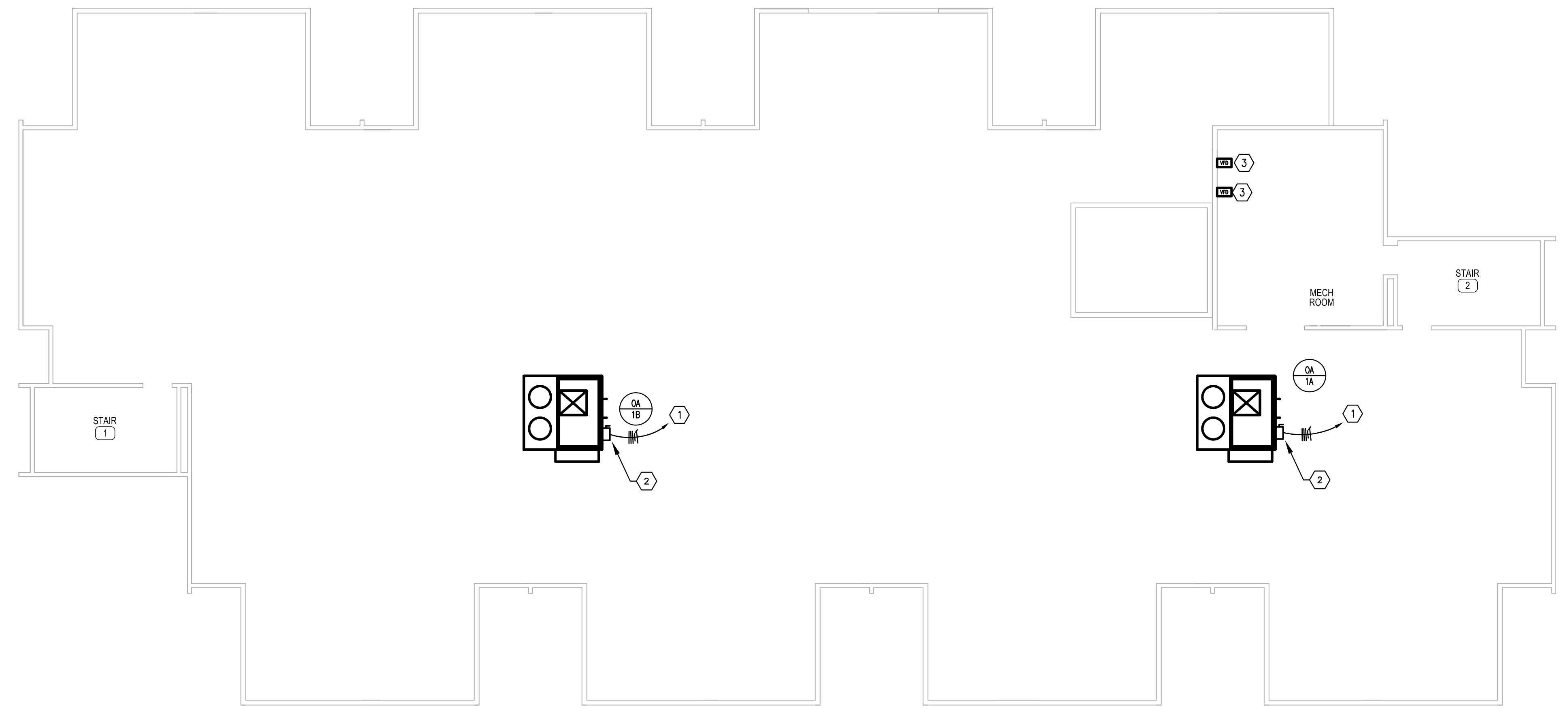


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- TAGGED NOTES:
1. CIRCUIT TO E(MDP) WITH 4#1, #8 GROUND IN 2" CONDUIT WITH NEW 90A/1P BREAKER. ROUTE CONDUIT DOWN THROUGH NEW HVAC CHASE - REFER TO LOWER LEVEL PLANS FOR LOCATION.
 2. PROVIDE NEMA 3R/NON-FUSED/250V/100A/3P DISCONNECT MOUNTED ON UNIT. COORDINATE MOUNTING LOCATION WITH UNIT INSTALLER.
 3. EXTEND WIRING FOR PUMPS P-1A AND P-1B THROUGH VFD. WIRING SHALL BE SUITABLE FOR 7.5HP MOTOR AT 208V, 3 PHASE (MINIMUM OF 3#8, #10G IN 1" CONDUIT). FIELD VERIFY HP IN THE FIELD.

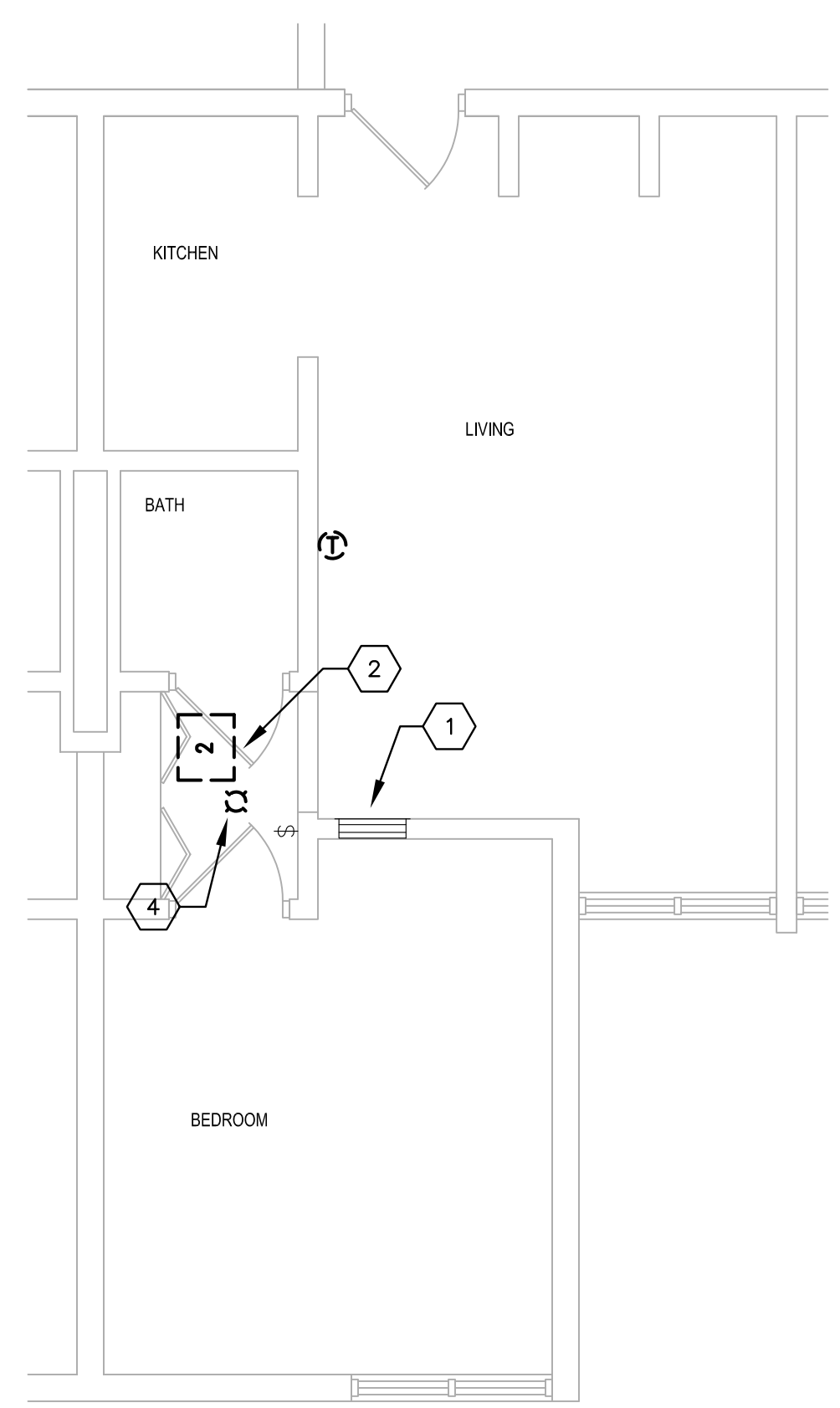


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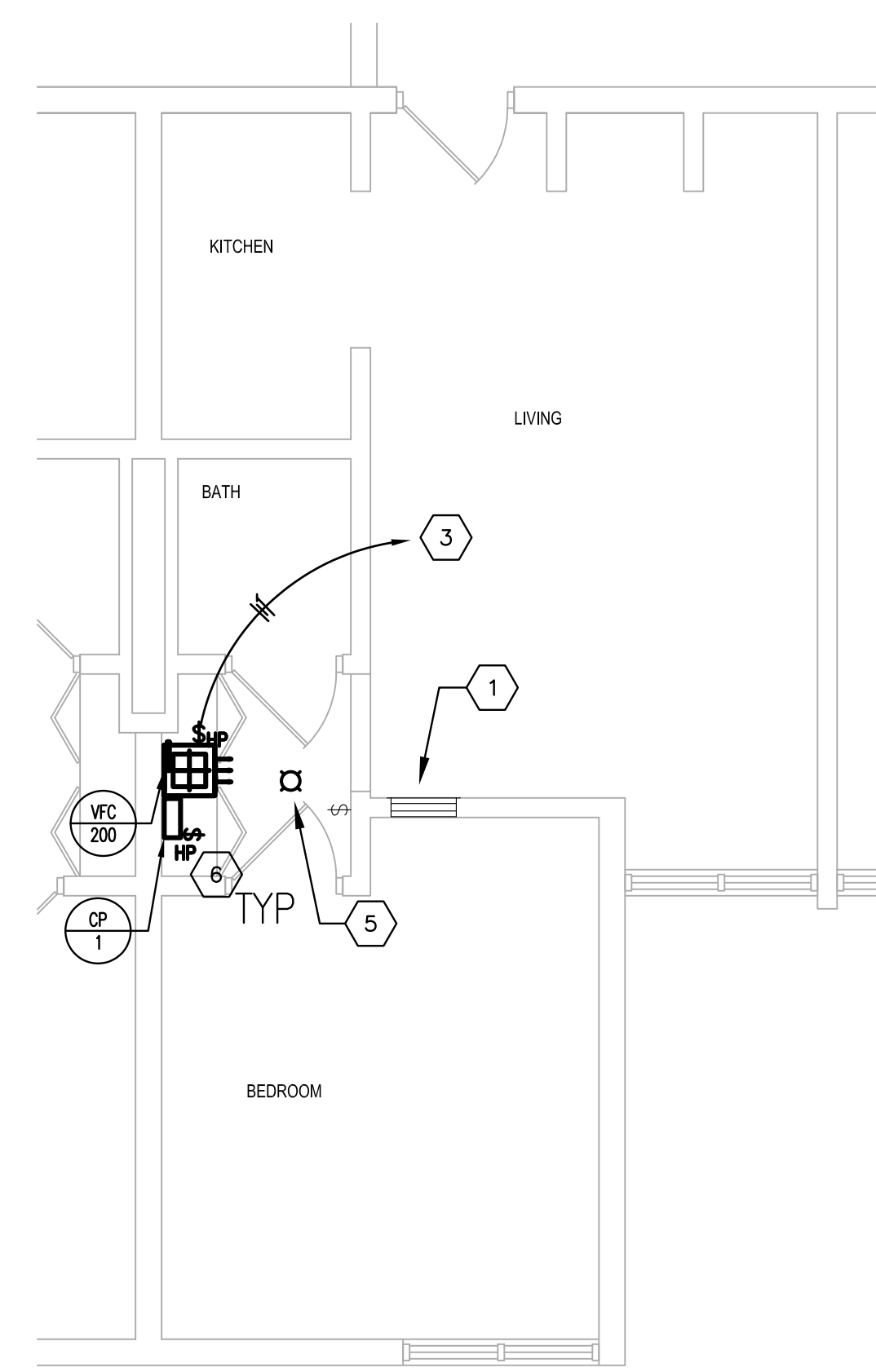
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- TAGGED NOTES:
- EXISTING PANEL SERVING APARTMENT TO REMAIN.
 - REMOVE EXISTING CONNECTION TO DEMOLISHED HVAC UNIT. EXISTING CONDUIT, CONDUCTORS, ETC. TO REMAIN FOR CONNECTION TO NEW UNIT.
 - EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO NEW UNIT. EXISTING CIRCUIT IS FED FROM APARTMENT PANEL.
 - REMOVE EXISTING CEILING LIGHT FIXTURE. CONDUITS, CONDUCTORS, ETC. TO REMAIN FOR CONNECTION TO NEW LIGHT FIXTURE.
 - PROVIDE NEW SURFACE MOUNTED LIGHT FIXTURE. CONNECT TO EXISTING SWITCHED CIRCUIT WITH 2#12, #12 GROUND IN 3/4" CONDUIT. REWORK CONDUCTORS AND CONDUIT TO REACH NEW LOCATION. LIGHT FIXTURE SHALL BE LITHONIA FMLRL 11 148 OR APPROVED EQUIVALENT.
 - POWER FOR CP-1 (FIRST FLOOR ONLY). EXTEND EXISTING CIRCUIT SERVING NEW VFC-200 TO MOTOR RATED SWITCH FOR NEW CP-1. VFC-200 AND CP-1 SHALL BE FED FROM SAME CIRCUIT.



PLAN NORTH
TYPICAL APARTMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
0.5' 1' 2' 4' 8' 12' 16'



PLAN NORTH
TYPICAL APARTMENT NEW WORK PLAN
SCALE: 1/4" = 1'-0"
0.5' 1' 2' 4' 8' 12' 16'