

# DEKALB HOUSING AUTHORITY - CIVIC APARTMENTS PIPING REPLACEMENT

REBID

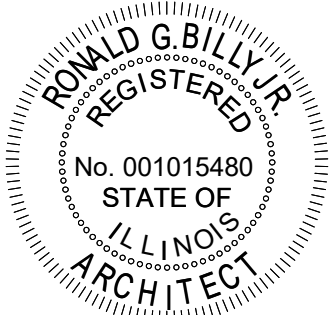
**OWNER:**  
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**ARCHITECT:**  
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RONALD G. BILLY JR., LEED AP

## STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT (410 ILCS 25) AND THE ILLINOIS ACCESSIBILITY CODE (71 111. ADM. CODE 400)

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, COMPLY WITH ALL APPLICABLE CODES.



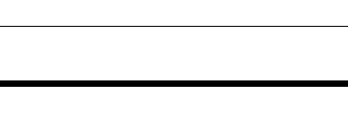
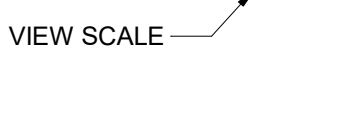
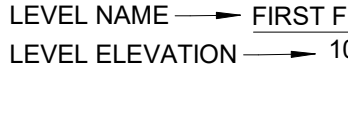
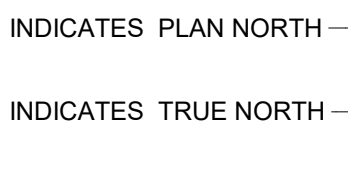
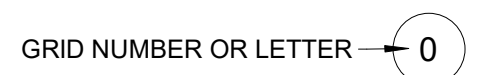
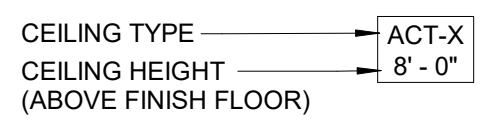
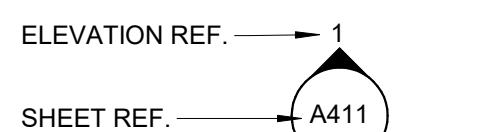
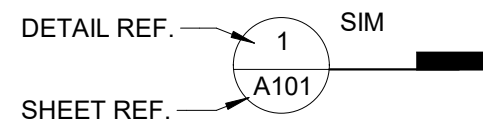
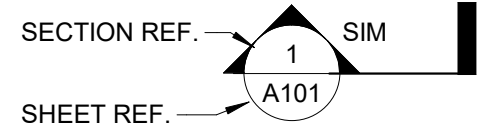
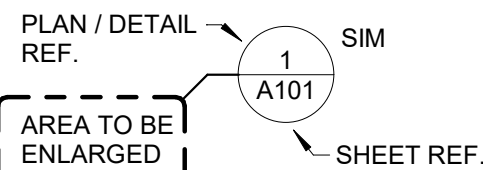
Signed: \_\_\_\_\_  
Architect/Engineer

ILLINOIS REGISTRATION NO.: 001015480  
Exp. Date: 11/30/22  
ILLINOIS PROFESSIONAL DESIGN FIRM  
REGISTRATION NO. 184003452

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## REFERENCE CODES

2015 INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS  
NFPA 70 - 2015 NATIONAL ELECTRIC CODE W/ LOCAL AMENDMENTS  
2014 PART 590 ILLINOIS PLUMBING CODE W/ LOCAL AMENDMENTS  
2015 INTERNATIONAL MECHANICAL CODE W/ LOCAL AMENDMENTS  
2015 INTERNATIONAL PROPERTY MAINTENANCE CODE W/ LOCAL AMENDMENTS  
2015 INTERNATIONAL FIRE CODE W/ AMENDMENTS  
2018 INTERNATIONAL ENERGY CONSERVATION CODE  
2015 NFPA 101 LIFE SAFETY CODE W/ AMENDMENTS  
ILLINOIS ACCESSIBILITY CODE 2018  
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN



## DETAILING SYMBOLS

## DIMENSION PLAN GENERAL NOTES:

- INTERIOR DIMENSIONS ARE TO FACE OF METAL STUD OR CMU UNIT AND TO CENTERLINES OF COLUMNS, U.N.O.
- REFER TO CODE PLANS FOR GRAPHIC REPRESENTATION AND UL DESIGNS OF RATED AND SMOKE PARTITIONS.
- EXTEND PARTITIONS TO UNDERSIDE OF STRUCTURE/DECK, U.N.O.
- SEE PLANS AND DETAIL PLANS FOR CHASE DIMENSIONS.
- FINAL WALL PREP REQUIREMENTS ARE BASED ON FINISH SHOWN IN ROOM FINISH SCHEDULE AND WITH THE SPECIFICATIONS.
- REFER TO DETAIL PLANS AND SECTIONS FOR FURTHER DESCRIPTION OF INTERIOR PARTITIONS.
- BACK-TO-BACK OUTLETS CANNOT OCCUPY SAME STUD CAVITY SPACE. IN ACOUSTICALLY TREATED WALLS, PROVIDE ACOUSTIC PUTTY PADS AROUND OUTLET BOXES.
- WHERE SEPARATION WALLS INTERSECT PERIMETER FURRING, PROVIDE FURRING STUDS AND SOUND INSULATION TO STRUCTURE ABOVE. EXTEND 24" MIN. ON EITHER SIDE OF SEPARATION WALL.
- REFER TO ENLARGED PLANS FOR DIMENSIONS WITHIN THESE AREAS.

## CEILING PLAN GENERAL NOTES:

- CONTROL JOINTS SHOWN IN GYP BD SOFFIT SHALL CONTINUE ON VERTICAL SURFACE OF SAME SOFFIT. SPACE CONTROL JOINTS NO MORE THAN 25'-0" O.C. ARCHITECT TO VERIFY JOINT LOCATIONS PRIOR TO INSTALLATION.
- SEE ENLARGED CEILING PLANS FOR ADDITIONAL SOFFIT DIMENSIONS AND CONTROL JOINT LOCATIONS.
- ELECTRICAL, MECHANICAL AND TECHNOLOGY FIXTURES AND DEVICES ARE SHOWN FOR REFERENCE AND TO COORDINATE PLACEMENT. REFER TO ENGINEERING DRAWINGS FOR INFORMATION REGARDING TYPE AND OTHER FIXTURE AND DEVICE INFORMATION.
- ESTABLISH PRE-INSTALLATION MEETING WITH ARCHITECT TO REVIEW STARTING POINT OF CEILING GRID IN EACH AREA/ROOM.
- SUBMIT A REFLECTED CEILING PLAN COORDINATION DRAWING TO ARCHITECT AFTER COORDINATING LAYOUT WITH OTHER TRADES PRIOR TO COMMENCING CEILING WORK.
- GYP/PLM CEILING TO BE PAINTED.
- EXPOSED STRUCTURE, MECHANICAL, ELECTRICAL, FIRE PROTECTION COMPONENTS (EXCEPT SPRINKLER HEADS) ARE TO BE PAINTED, U.N.O.
- SPRINKLER HEADS ARE NOT SHOWN. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING PANELS.
- CEILING HEIGHTS SHOWN ON REFLECTED CEILING PLANS ARE FROM THE FINISHED FLOOR OF PLAN SHOWN.
- ACCESS PANELS REQUIRED AT ALL AREAS REQUIRING MAINTENANCE, INSPECTION, OR AS OTHERWISE REQUIRED BY CODE. COORDINATE LOCATION OF ACCESS PANELS WITH MECHANICAL/ELECTRICAL CONTRACTORS.
- IN ROOMED CEILINGS, MOUNT LIGHT FIXTURES TO UNDERSIDE OF STRUCTURE. OTHER ME/FPF ITEMS TO MAINTAIN A MINIMUM CLEARANCE OF 9'-0" A.F.F.
- SEE TECHNOLOGY DRAWINGS FOR SECURITY CAMERA AND MOTION DETECTOR LOCATIONS, IF APPLICABLE.
- SEE ELECTRICAL LIGHTING PLANS FOR EMERGENCY LIGHT FIXTURE LOCATIONS.
- CONTRACTOR TO COORDINATE CEILING FIXTURE LOCATIONS WITH ABOVE-CEILING WORK TO AVOID CONFLICTS.
- WATER RESISTANT (FIBERGLASS FACED) GWB REQUIRED AT ALL SHOWER CEILINGS

## DEMOLITION GENERAL NOTES:

- VISIT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID SUBMISSION. DISCREPANCIES BETWEEN CONSTRUCTION INDICATED ON DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY IN WRITING.
- DEMOLISHED ITEMS NOT INDICATED TO BE "DELIVERED TO OWNER" OR "TO BE RELOCATED" SHALL BE REMOVED FROM SITE AS SOON AS POSSIBLE UNLESS THEY ARE TO BE USED FOR REQUIRED PATCHING AND INFILLING OF EXISTING CONSTRUCTION THAT IS TO REMAIN. NO OTHER DEMOLISHED ITEMS SHALL BE STORED ON SITE.
- DEMOLISHED ITEMS NOTED AS "DELIVER TO OWNER" OR "TO BE RELOCATED" SHALL BE REMOVED OR DISASSEMBLED IN SUCH A MANNER THAT WILL NOT DAMAGE THE ITEM AND PREVENT IT FROM BEING RELOCATED. REPAIR OR REPLACE SUCH ITEMS, IF DAMAGED. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF DAMAGE HAS OCCURRED, AND SUBMIT A REPAIR SOLUTION TO ARCHITECT FOR REVIEW.
- TEMPORARILY STORE ITEMS INDICATED AS "DELIVER TO THE OWNER" IN AN ONSITE LOCATION, DESIGNATED BY THE OWNER. OWNER SHALL MOVE ITEM(S), AS NECESSARY, TO NOT HINDER OR DELAY PERFORMANCE OF WORK IN AREA.
- TEMPORARILY STORE ITEMS INDICATED AS "TO BE RELOCATED" IN A LOCATION ONSITE AND PROTECT ITEMS FROM DAMAGE PRIOR TO INSTALLATION IN NEW LOCATION.
- ITEMS INDICATED "TO REMAIN" THAT ARE DAMAGED DURING THE PERFORMANCE OF THE DEMOLITION WORK. SUCH DAMAGE SHALL BE REPORTED TO OWNER'S REPRESENTATIVE IMMEDIATELY, AND SUBMIT A REPAIR SOLUTION TO ARCHITECT FOR REVIEW.
- COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION WORK IN EACH AREA OF DEMOLITION. EXISTING CONSTRUCTION IN AREAS ADJACENT TO DEMOLITION WORK SHALL BE PATCHED AND REPAIRED TO MATCH ORIGINAL EXISTING CONDITION AS REQUIRED TO PROVIDE FOR NEW CONSTRUCTION WORK IN AREA OF DEMOLITION.
- ITEMS INDICATED TO BE REMOVED BY OWNER SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF WORK.
- AT LOCATIONS WHERE A PORTION OF EXISTING CONSTRUCTION IS TO BE REMOVED AND PREPARED FOR A NEW INFILL CONSTRUCTION, OR AN OPENING IN A WALL, ROOF, OR FLOOR IS CREATED BY DEMOLITION WORK, CONSTRUCT INFILL WITH SAME MATERIALS AND METHOD OF CONSTRUCTION AS EXISTING ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE SEE ARCHITECTURAL DRAWINGS FOR INFILL CONSTRUCTION INFILL CONSTRUCTION SHALL SMOOTHLY BUTT ADJACENT SURFACES AND MATCH THE FINISH, U.N.O.
- AT LOCATIONS WHERE AN ITEM IS TO BE REMOVED FROM A SURFACE THAT IS TO REMAIN, PATCH AND REPAIR EXISTING SURFACE TO MATCH EXISTING ADJACENT SURFACE, UNLESS INDICATED OTHERWISE.
- EXISTING ITEMS ANCHORED TO CONSTRUCTION THAT IS INDICATED TO BE DEMOLISHED SHALL BE CONSIDERED A PART OF DEMOLISHED CONSTRUCTION AND SHALL BE DEMOLISHED WITH THE INDICATED CONSTRUCTION, UNLESS NOTED OTHERWISE.
- IN CONDITIONS WHERE A WALL OR FLOOR FINISH IS DEMOLISHED CREATING A DISSIMILAR ELEVATION IN ADJACENT FLOOR FINISHES, INSTALL AN APPROVED LEVELING MATERIAL TO BRING LOWER FLOOR FINISH ELEVATION UP TO AN ELEVATION THAT IS FLUSH WITH ADJACENT FLOOR.
- CONSTRUCT TEMPORARY DUST PARTITIONS TO CONTAIN DEMOLITION WORK AND PREVENT CONSTRUCTION DUST FROM ENTERING ADJACENT EXISTING B CONSTRUCTION. SUBMIT LOCATIONS OF THESE PARTITIONS FOR APPROVAL BY OWNER'S REPRESENTATIVE. PARTITION LOCATIONS SHALL NOT IMPEDE OR HINDER EMERGENCY EGRESS FROM BUILDING. SPECIFICATIONS FOR CONSTRUCTION OF DUST PARTITIONS.
- RETAIN DEMOLISHED MATERIALS AS REQUIRED FOR INFILLING OPENINGS IN EXISTING CONSTRUCTION SO THAT FINISH MATERIALS WILL PROPERLY ALIGN WITH EXISTING AND MATCH THE EXISTING FINISH. IF DEMOLISHED MATERIALS ARE NOT SALVAGEABLE, NOTIFY OWNER'S REPRESENTATIVE, SO THAT ALTERNATE SOLUTIONS MAY BE DETERMINED.
- IF EXISTING CONSTRUCTION IS REVEALED NOT CONSTRUCTED OR FINISHED IN A MANNER THAT MATCHES ADJACENT SURFACES, PATCH AREA AS NECESSARY WITH APPROPRIATE MATERIALS AND METHODS OF CONSTRUCTION TO MATCH EXISTING ADJACENT FINISH, OR PREPARE SURFACE FOR INSTALLATION OF NEW FINISH. CONTACT OWNER'S REPRESENTATIVE AS SOON AS POSSIBLE SO THAT CONCEALED CONSTRUCTION MAY BE IDENTIFIED AND SCOPE OF POSSIBLE ADDITIONAL WORK DETERMINED.
- WHEN EXISTING SURFACE IS INDICATED TO BE "PATCHED AND REPAIRED" OR "PREPARED" TO RECEIVE A NEW FINISH MATERIAL, PROVIDE A CONSTRUCTION SURFACE THAT IS CAPABLE OF RECEIVING NEW FINISH MATERIAL.
- WHEN THE TERM "ENTIRETY" IS DIRECTED TO A SPECIFIC ITEM OR ASSEMBLY, DEMOLISH AND REMOVE IDENTIFIED ITEM AND ASSOCIATED CONSTRUCTION PERTINENT TO THE ITEM, INCLUDING, BUT NOT LIMITED TO UNDERGROUND AND CONCEALED CONSTRUCTION, SUCH AS FOOTINGS AND FOUNDATIONS, SEWER, PLUMBING, AND ELECTRICAL WORK. THIS DEMOLITION WORK SHALL BE COORDINATED WITH THE CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS.

## GENERAL NOTES - ARCHITECTURAL:

- REFER TO PROJECT MANUAL FOR BIDDING REQUIREMENTS, CONTRACT FORMS, GENERAL CONDITIONS OF THE CONTRACT, SUPPLEMENTARY CONDITIONS OF THE CONTRACT, AND TECHNICAL SPECIFICATIONS.
- VISIT PROJECT SITE, BUILDING AND SURROUNDING CONDITIONS PRIOR TO SUBMITTING A BID. CONTACT ARCHITECT IN WRITING IF THERE IS A CONFLICT BETWEEN DRAWINGS AND EXISTING CONDITIONS, AND OTHER QUESTIONS ARISING FROM CONTRACTORS OBSERVATIONS.
- SEVERAL ITEMS ON DRAWINGS ARE AN ALTERNATE. SCOPE OF THESE ITEMS IS EXPLAINED IN SECTION 012300 - ALTERNATES.
- REQUIRED PRE-INSTALLATION MEETINGS AND MOCKUPS FOR CRITICAL WORK SHALL BE PERFORMED PRIOR TO COMMENCEMENT OF WORK. COORDINATE ADDITIONAL MEETINGS AND MOCKUPS WITH ARCHITECT AS NECESSARY AT NO ADDITIONAL COST TO OWNER.
- WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS OF VARIOUS TRADES, PROMPTLY REPORT DISCREPANCIES TO ARCHITECT IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- WHERE PROVISIONS OF DRAWINGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT OR COSTLY REQUIREMENT SHALL GOVERN UNLESS DIRECTED OTHERWISE BY ARCHITECT.
- VERIFY FIELD CONDITIONS, MATERIALS, CONSTRUCTION METHODS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. PROMPTLY CONTACT ARCHITECT IN WRITING IF ISSUES OR QUESTIONS ARISE. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS, AS WELL AS TAKING ON RESPONSIBILITY FOR UNACCEPTABLE WORK CAUSED BY PREVIOUS CONDITIONS.
- MATERIALS ORDERED, FABRICATED, OR INSTALLED PRIOR TO ARCHITECT'S REVIEW AND APPROVAL OF REQUIRED SUBMITTALS, AND ASSOCIATED SUBMITTALS PERTAINING TO WORK, IS AT CONTRACTOR'S OWN RISK. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR DELAYS OR ADDED COSTS INCURRED BY CONTRACTOR AS A RESULT OF WORK INSTALLED OR COMPLETED WITHOUT PROPER SUBMITTAL REVIEW AND APPROVAL.
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, NATIONAL CODES AND ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
- DO NOT SCALE DRAWINGS; READ DIMENSIONS ONLY. IF A REQUIRED DIMENSION IS NOT INDICATED OR DIMENSIONING DISCREPANCIES EXIST, PROMPTLY WRITE ARCHITECT FOR RESOLUTION.
- DO NOT CUT STRUCTURAL ELEMENTS OR MEMBERS IN A MANNER RESULTING IN A REDUCTION OF LOAD CARRYING CAPACITY OR LOAD DEFLECTION RATIO.
- STRUCTURAL ITEMS, INCLUDING BUT NOT LIMITED TO, BEAMS, LINTELS, JOISTS, DECKS, MASONRY TIES, BOND BEAMS, COLUMNS, CONNECTIONS AND CONNECTORS, ETC., APPEARING ON ARCHITECTURAL DRAWINGS ARE ONLY SHOWN TO ILLUSTRATE RELATIONSHIPS TO OTHER BUILDING MATERIALS AND SYSTEMS AND SHALL BE CONSIDERED FOR INFORMATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR DETAILED CONFIGURATIONS, TYPES, SIZES, CONNECTIONS, NOTES, AND SCHEDULES.
- COLD FRAME APPEARING ON ARCHITECTURAL DRAWINGS ARE SHOWN TO ILLUSTRATE INTENT. CONTRACTOR, AS PART OF DELEGATED DESIGN SUBMITTAL RESPONSIBILITY, IS TO PROVIDE CONNECTIONS AND CONFIGURATIONS REQUIRED.
- PLUMBING, HVAC, ELECTRICAL, AND FIRE PROTECTION ITEMS APPEARING ON ARCHITECTURAL DRAWINGS ARE ONLY SHOWN TO ILLUSTRATE RELATIONSHIPS TO OTHER BUILDING MATERIALS AND SYSTEMS AND SHALL BE CONSIDERED FOR INFORMATION ONLY. REFER TO EACH DISCIPLINE'S DRAWINGS FOR DETAILED CONFIGURATIONS, TYPES, SIZES, CONNECTIONS, NOTES, AND SCHEDULES.
- ALL PLUMBING, HVAC, ELECTRICAL, AND FIRE PROTECTION ROUGH-IN WORK IN FINISHED AREAS SHALL BE CONCEALED IN AVAILABLE CEILING, WALL AND FLOOR SPACES.
- PENETRATIONS THROUGH SLAB OR WALLS SHALL BE WATER SEALED. WHERE PENETRATIONS ARE REQUIRED TO BE FIRE SEALED, THE WATER SEAL SHALL BE IN ADDITION. INSTALL FIRE SEALANT FIRST (DEPRESSED A MINIMUM OF 3/4 INCH) AND INSTALL WATER SEAL OVER THE TOP. INSTALL APPROPRIATE BOND BREAKER BETWEEN THE TWO TYPES OF SEALANT.
- PROVIDE WOOD OR STEEL FRAME BLOCKING, AS REQUIRED, IN WALLS AND CEILINGS TO ANCHOR WALL AND CEILING MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO: MILLWORK, CASEWORK, WALL CABINETS, HANDRAILS, COAT RACKS, WALL HOOKS, DOOR STOPS, TOILET ACCESSORIES, OWNER-FURNISHED EQUIPMENT, SHELVING, LIGHT FIXTURES, LIFE SAFETY EQUIPMENT AND OTHER SIMILAR ITEMS.
- WOOD BLOCKING AND METAL FRAMING IS SHOWN GENERALLY IN DETAILS TO ACHIEVE DESIRED OVERALL CONFIGURATION.
- CONTROL JOINTS IN RATED ASSEMBLIES SHALL NOT COMPROMISE RATED ASSEMBLY. PROVIDE APPROPRIATE BACKING MATERIAL AND FIRESTOPPING TO CLOSE CAVITY AND PROVIDE APPROPRIATE SEALANT.
- UNLESS DETAILED OTHERWISE, WHERE GYPSUM WALLBOARD MEETS DISSIMILAR SURFACE, INCLUDING BUT NOT LIMITED TO MASONRY, WOOD, OR METAL, SHALL HAVE WALLBOARD EDGE FINISHED WITH METAL EDGE AND DRYWALL COMPOUND, AND THE JOINT SEALED.
- WHERE MASONRY REQUIRES CUTTING TO ENCLOSE A STRUCTURAL MEMBER, PROVIDE MAXIMUM THICKNESS POSSIBLE AND PREVENT CONTACT WITH STRUCTURE, EXCEPT FOR WALL TIES. USE SAME UNITS AS IN WALL TO KEEP APPEARANCE UNIFORM.
- COORDINATE WORK WITH EQUIPMENT BEING FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. SHOP DRAWINGS AND OTHER SUBMITTALS SHALL BE CAREFULLY COORDINATED ACCORDINGLY. PROVIDE FOR SOME ADJUSTMENT IN FINAL DESIGN AND FABRICATION TO ACCOMMODATE INSTALLATION OF OWNER EQUIPMENT.
- MAINTAIN INGRESS AND EGRESS TO THE PROJECT SITE AND BUILDING.

## GENERAL NOTES - PLUMBING:

- DRAWINGS ARE GENERALLY DIAGRAMMATIC. EACH CONTRACTOR SHALL MAKE REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND THE BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- IT IS INTENDED THAT THE APPARATUS SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLARITY OF PRESENTATION.
- EACH CONTRACTOR SHALL CHECK DRAWINGS OF THE OTHER CONTRACTORS TO VERIFY SPACES IN WHICH THEIR WORK WILL BE INSTALLED IS CLEAR OF OBSTRUCTIONS. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.
- FURNISH EACH CONTRACTOR WITH ADVANCE INFORMATION AND SIZES OF PIPING, DUCTWORK, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS NEEDED FOR WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS TO PERMIT EACH CONTRACTOR AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- WHERE THERE IS EVIDENCE THAT THE WORK OF ONE CONTRACTOR WILL INTERFERE WITH THE WORK OF OTHER CONTRACTORS, EACH CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS.
- ALL WATER LINES SHALL DRAIN COMPLETELY THROUGH LOWER FIXTURES, UNIONS, BRASS CAP OR PLUG AT LOW POINTS AND MUST VENT COMPLETELY THROUGH FIXTURE ABOVE OR AIR VENT.
- PROVIDE LINE SIZE AIR CHAMBERS FOR ALL FIXTURES. AIR CHAMBERS SHALL BE MINIMUM 18" IN LENGTH.
- CONTRACTOR IS ALLOWED TO MAKE CHANGES TO PIPING, ETC. FROM THAT SHOWN ON DRAWINGS AS REQUIRED TO AVOID FIELD CONFLICTS AT NO ADDITIONAL COST TO THE OWNER AND AS LONG AS THE RELOCATION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM.
- CONTRACTOR SHALL VERIFY ALL PRESENT CONDITIONS INCLUDING, BUT NOT LIMITED TO, PIPE SIZES, LOCATIONS, INVERTS, TEMPERATURES, ELEVATIONS, PRESSURES, ETC. PRIOR TO START OF CONSTRUCTION AND MAKE MODIFICATIONS FOR WORK SHOWN AS REQUIRED TO ACCOMMODATE PRESENT OR NEW CONSTRUCTION. ALL AT NO INCREASE IN CONTRACT PRICE.
- THE INSTALLATION OF ALL PIPING ELECTRICAL CODE (NEC) AS IT PERTAINS WITH CLEARANCE OF PIPING IN RELATIONSHIP TO ELECTRICAL SWITCHGEAR, ELECTRICAL EQUIPMENT, ELECTRICAL PANELS, ETC. PIPING SHALL NOT CROSS OVER THE TOP OF OR IMPINGE UPON ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL INSTALL HIS WORK IN ACCORDANCE WITH ALL LAWS, RULES, REGULATIONS, CODES, ETC. PER ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CONTRACTOR SHALL WARRANT HIS SYSTEMS FOR A PERIOD OF ONE (1) YEAR.
- SUBMIT SHOP DRAWINGS FOR ALL MATERIALS & EQUIPMENT ITEMS.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, ETC. AS REQUIRED FOR HIS WORK.
- ALL GAS PIPING, WHICH IS CONCEALED ABOVE A CEILING, IN A CHASE, WALL, PARTITION, ETC. SHALL BE OF WELDED CONSTRUCTION. NO JOINTS, OTHER THAN WELDED, NOR VALVES SHALL BE ALLOWED IN CONCEALED SPACES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL PLUMBING FIXTURES TO BE INSTALLED PER ILLINOIS PLUMBING CODE. PROVIDE SHUT OFF VALVES FOR EVERY PLUMBING FIXTURE, LOCATED AT OR NEAR THE FIXTURE.

## GENERAL NOTES

## SHEET INDEX

SHEET NO. \_\_\_\_\_ SHEET NAME \_\_\_\_\_

GENERAL  
G000 COVER SHEET

ARCHITECTURAL	
A101	ARCHITECTURAL DEMOLITION PLANS
A102	ARCHITECTURAL DEMOLITION PLAN
A103	ARCHITECTURAL NEW WORK PLANS
A104	ARCHITECTURAL NEW WORK PLAN
A105	REFLECTED CEILING PLANS

PLUMBING	
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P102	PLUMBING DEMOLITION PLANS - WATER SUPPLY
P103	PLUMBING DEMOLITION PLANS - SANITARY
P104	PLUMBING DEMOLITION PLANS - SANITARY
P105	PLUMBING PLANS - WATER SUPPLY
P106	PLUMBING PLANS - WATER SUPPLY & PLUMBING RISER
P107	PLUMBING PLANS - SANITARY (ALTERNATE #1)
P108	PLUMBING PLANS - SANITARY (ALTERNATE #1) & PLUMBING RISER
P109	PLUMBING SPECIFICATIONS

@	- AT	JT	- JOINT
A B	- ANCHOR BOLT	L	- LONG
ACOUS	- ACOUSTIC	LAM	- LAMINATE(D)
ACP	- ACOUSTIC CEILING PANEL	LAV	- LAVATORY
ADDN	- ADDITION	LGT	- LIGHT
ADDL	- ADDITIONAL	LH	- LEFT HAND
AFF	- ABOVE FINISH FLOOR	LL	- LIVE LOAD
AHJ	- AUTHORITY HAVING JURISDICTION	LLH	- LONG LEG HORIZONTAL
AL	- ALUMINUM	LLV	- LONG LEG VERTICAL
ALT	- ALTERNATE	LVR	- LOUVER
ANCH	- ANCHOR		
AND	- AND/OD		
AP	- ACCESS PANEL	MAX	- MAXIMUM
APPROX	- APPROXIMATE	MECH	- MECHANICAL
AVE	- AVERAGE	MED	- MEDIUM
		MEZZ	- MEZZANINE
BD	- BOARD	MFR	- MANUFACTURER
BLDG	- BUILDING	MH	- MAN HOLE
BRG	- BEARING	MIN	- MINIMUM
BTM	- BOTTOM	MISC	- MISCELLANEOUS
BTWN	- BETWEEN	MO	- MASONRY OPENING
		MOD	- MODULAR
CAB	- CABINET	MR	- MOISTURE RESISTANT
CJ	- CONSTRUCTION/ CONTRACTION JOINT	MTL	- METAL
CLG	- CEILING	NIC	- NOT IN CONTRACT
CLR	- CLEAR	NO	- NUMBER
CMU	- CONCRETE MASONRY UNIT	NOM	- NOMINAL
CO	- CLEAN OUT	NTS	- NOT TO SCALE
COL	- COLUMN		
CONC	- CONCRETE	OC	- ON CENTER
COND	- CONDITION	OD	- OUTSIDE DIAMETER
CONT	- CONTINUOUS	OH	- OVER HEAD
CONTR	- CONTRACTOR	OPNG	- OPENING
CPT	- CARPET	OPP	- OPPOSITE
CT	- CERAMIC TILE	OPP HD	- OPPOSITE HAND
CTR	- COUNTER		
		PERI	- PERIMETER
DF	- DRINKING FOUNTAIN	PERM	- PERMANENT
DIA	- DIAMETER	PL	- PLATE
DM	- DIMENSION	PLAM	- PLASTIC LAMINATE
DN	- DOWN	PLY	- PLYWOOD
DTL	- DETAIL	PSI	- POUNDS PER SQUARE FOOT
DWG'S	- DRAWINGS	PT	- POUNDS PER SQUARE INCH
		PT	- PAINT
EJ	- EACH	PVC	- POLYVINYL CHLORIDE
EA	- EXPANSION JOINT		
ELEV	- ELEVATION	R OR RAD	- RADIUS
ELEC	- ELECTRICAL	RD	- ROOF DRAIN
ELEV	- ELEVATOR	REF	- REFERENCE
EMBED	- EMBEDMENT	REINF	- REINFORCING
EMER	- EMERGENCY	REQ'D	- REQUIRED
EPDM	- ETHYLENE PROPYLENE DIENE MONOMER	RH	- RIGHT HAND
		RM	- ROOM
EQ	- EQUAL	RO	- ROUGH OPENING
EW	- EACH WAY		
EW	- ELECTRIC WATER COOLER	SCHED	- SCHEDULE
EW	- ELECTRIC WATER HEATER	SEC	- SECTION
EXIST	- EXISTING	SF	- SQUARE FOOT
EXP	- EXPANSION	SI	- SQUARE INCH
EXT	- EXTERIOR	SIM	- SIMILAR
		SK	- SINK
FD	- FLOOR DRAIN	SOG	- SLAB ON GRADE
FE	- FIRE EXTINGUISHER	SPEC	- SPECIFICATION(S)
FEC	- FIRE EXTINGUISHER CABINET	SS	- SERVICE SINK
FIN	- FINISH	STD	- STANDARD
FLR	- FLOOR	STL	- STEEL
FRP	- FIBER REINFORCED PLASTIC	STRUCT	- STRUCTURAL OR STRUCTURE
FTG	- FOOTING	SUSP	- SUSPEND(ED)
FURN	- FURNACE		
		T	- TREAD
GA	- GAUGE	T&G	- TONGUE AND GROOVE
GC	- GENERAL CONTRACTOR	TB	- TOP OF BEAM
		T/C	- TOP OF CURB
GL	- GLASS	T/F	- TOP OF FOUNDATION
GW	- GAS WATER HEATER	T/S	- TOP OF SLAB
GW	- GYPSUM WALL BOARD	T/STL	- TOP OF STEEL
		TH	- TOP OF WALL
H	- HIGH	THICK	- THICK
HB	- HOSE BIB	TOM	- TOP OF MASONRY
HGT	- HEIGHT	TYP	- TYPICAL
HM	- HOLLOW METAL		
HORIZ	- HORIZONTAL	UNO	- UNLESS NOTED OTHERWISE
HTG	- HEATING		
HVAC	- HEATING/ VENTILATING AIR CONDITIONING	VCT	- VINYL COMPOSITION TILE
		VERT	- VERTICAL
ID	- INSIDE DIAMETER	W	- WIDE OR WIDTH
IN	- INCLUDE	W/O	- WITHOUT
INCL	- INCLUDE(D)	WD	- WOOD
INSUL	- INSULATION OR INSULATING	WP	- WATER PROOF
INT	- INTERIOR	WR	- WATER RESISTANT
INV	- INVERT	WWF	- WELDED WIRE FABRIC

## STANDARD ABBREVIATIONS

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SYCAMORE, ILLINOIS

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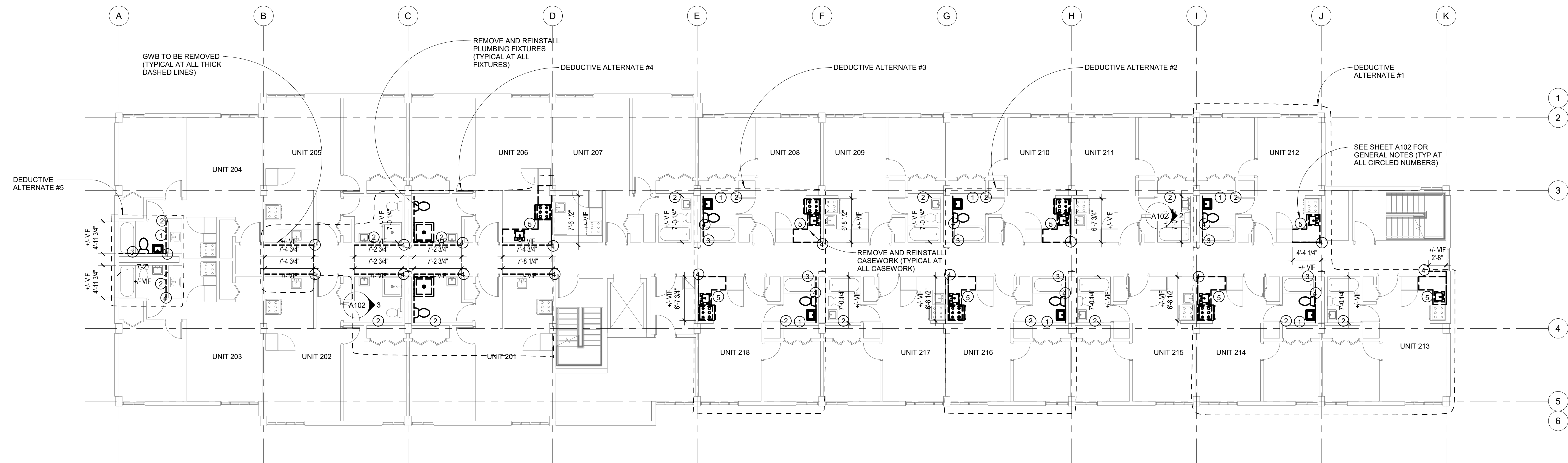
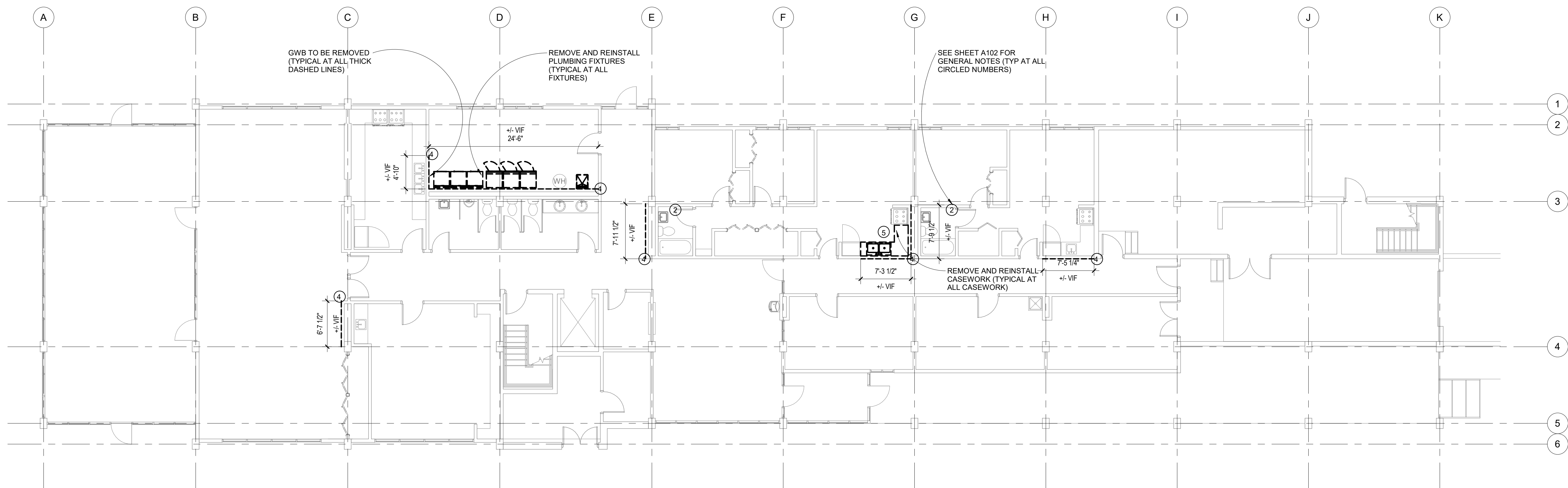
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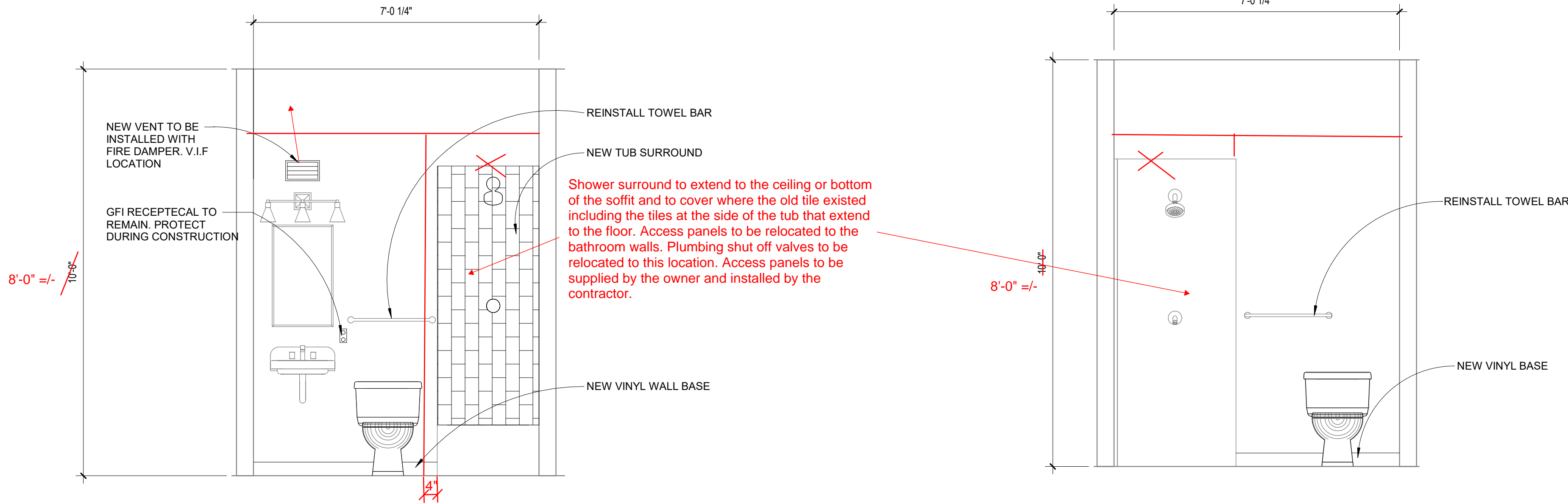




GENERAL NOTES

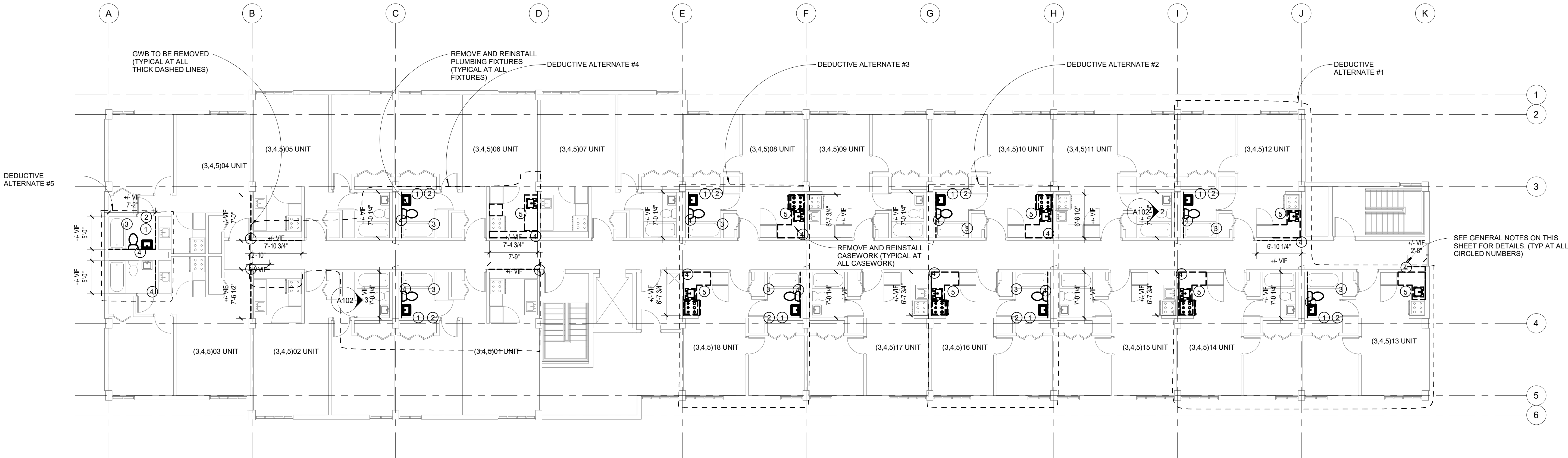
- 1. REMOVE AND REINSTALL MEDICAL CABINET AND LIGHT
- 2. REMOVE AND REPLACE BATHROOM EXHAUST GRILLE. PROVIDE NEW PRILLE WITH FIRE DAMPER **IN EACH UNIT.**
- 3. REMOVE TILE SURROUND ON CONTROL WALL ONLY. INSTALL NEW SOLID SURFACE WALL SURROUND FROM TUB TO CEILING IN THIS LOCATION. **COLOR AS SELECTED BY OWNER IN EACH UNIT.**
- 4. PAINT ALL NEW DRYWALL TO MATCH EXISTING
- 5. REMOVE CABINETS, COUNTERTOPS, PLUMBING FIXTURES, AND APPLIANCES. REINSTALL CABINETS, COUNTERTOPS, PLUMBING, AND APPLIANCES

ADD DEDUCTIVE ALTERNATES AND UNITS PER ALTERNATE HERE.



2 TYPICAL BATHROOM SHOWER WALL  
Scale: 1/2" = 1'-0"

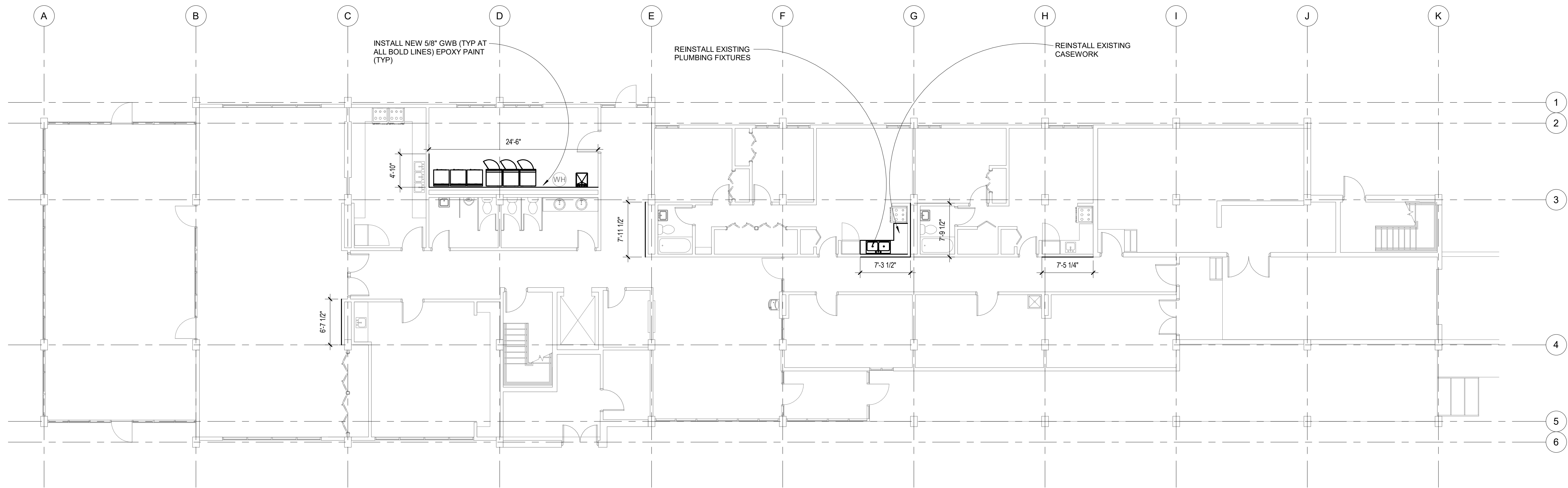
3 TYPICAL ADA SHOWER WALL  
Scale: 1/2" = 1'-0"



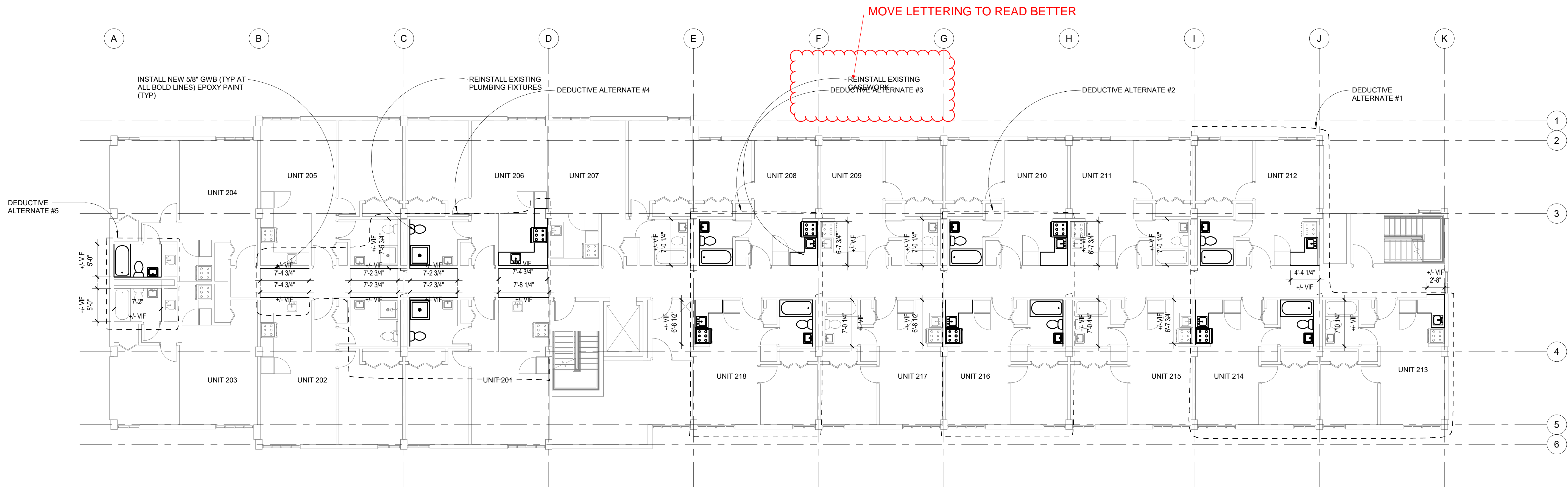
1 THIRD, FOURTH & FIFTH FLOORS - ARCHITECTURAL DEMO PLAN  
Scale: 1/8" = 1'-0"

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CONTRACTOR	BONDING CO.
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Project Number 20-12890	Date 06/07/2021
Appd.	RGB
CNE	DM.
REVISION DATE	
Sheet No: A102	





**1 FIRST FLOOR - ARCHITECTURAL NEW WORK PLAN**  
Scale: 1/8" = 1'-0"



**2 SECOND FLOOR - ARCHITECTURAL NEW WORK PLAN**  
Scale: 1/8" = 1'-0"

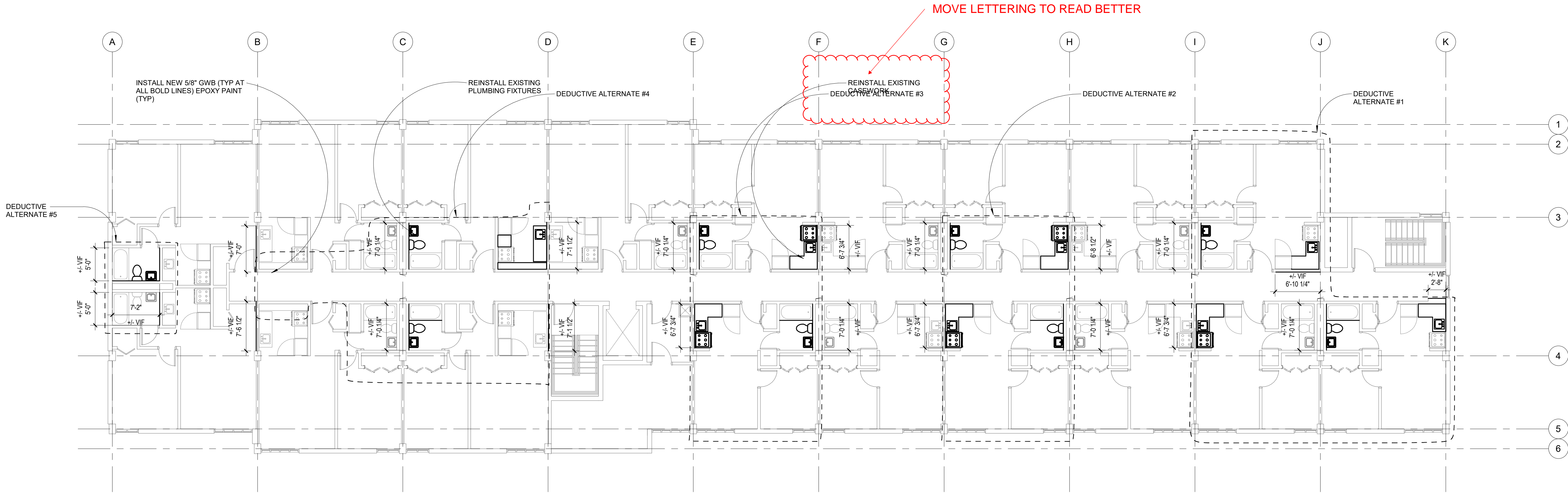




1

THIRD, FOURTH & FIFTH FLOORS - ARCHITECTURAL NEW WORK PLAN

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



ARCHITECTURAL NEW WORK PLAN

Sheet No:  
A104

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SYCAMORE, ILLINOIS

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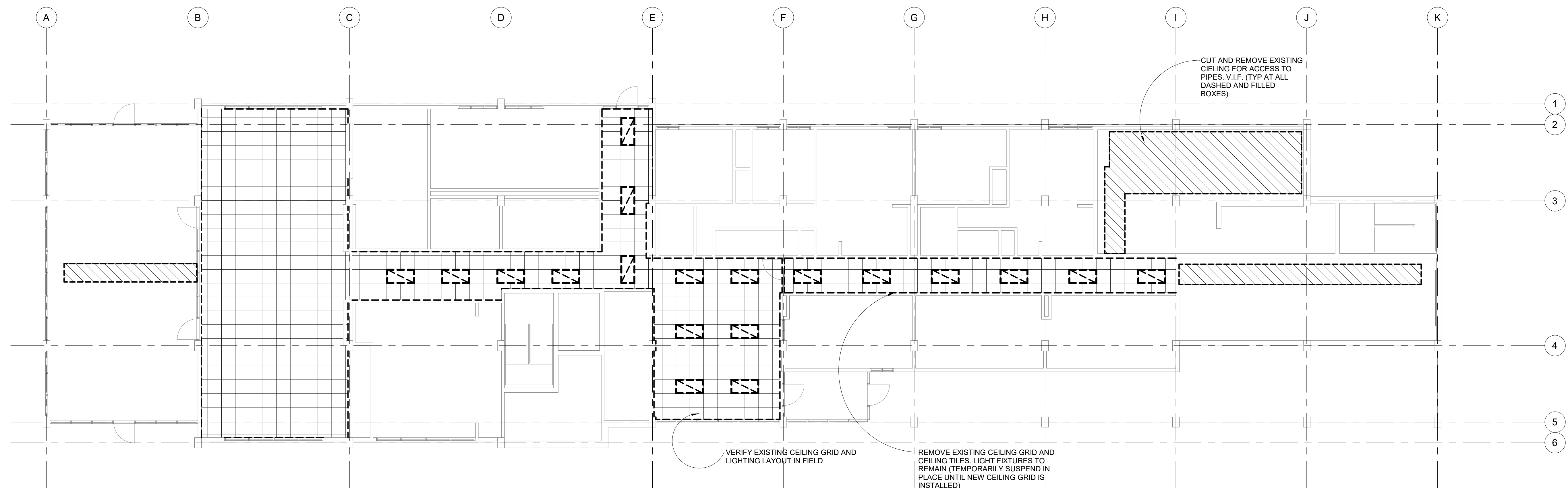
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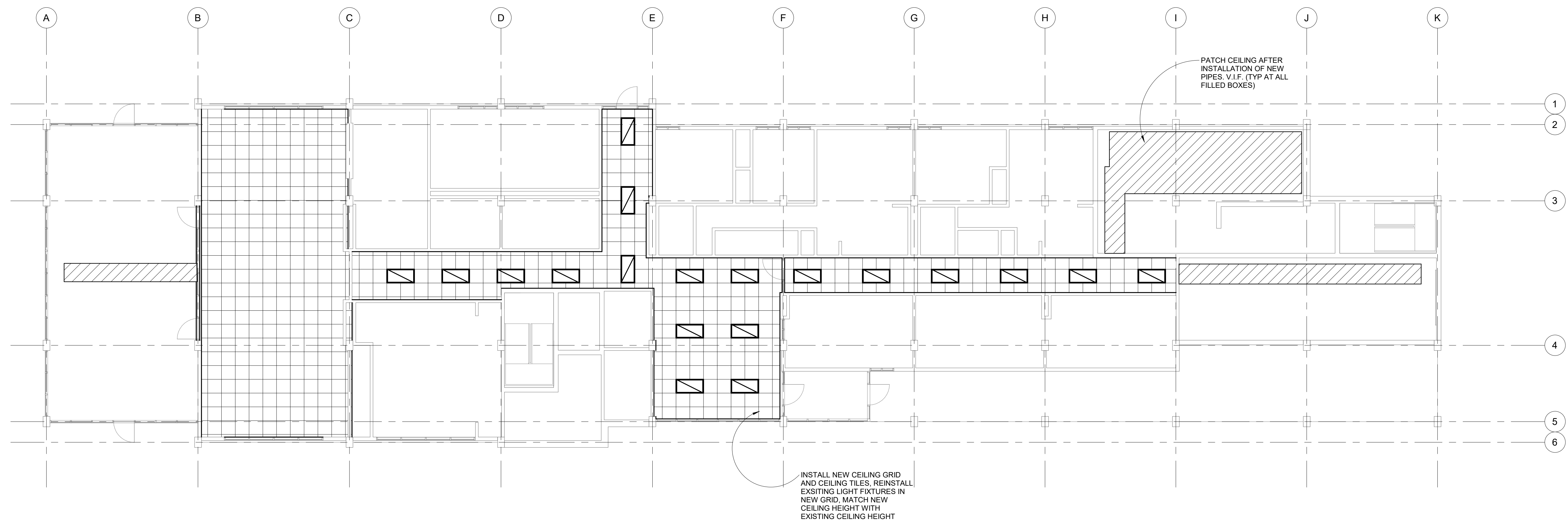
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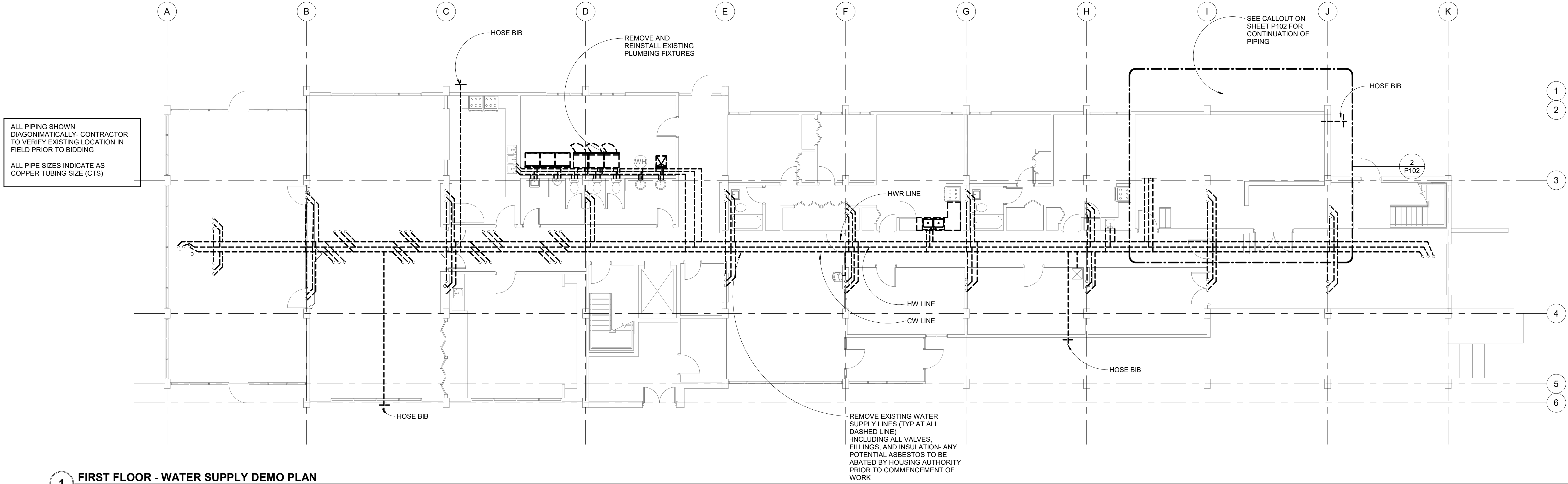
**1 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN**  
Scale: 1/8" = 1'-0"

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

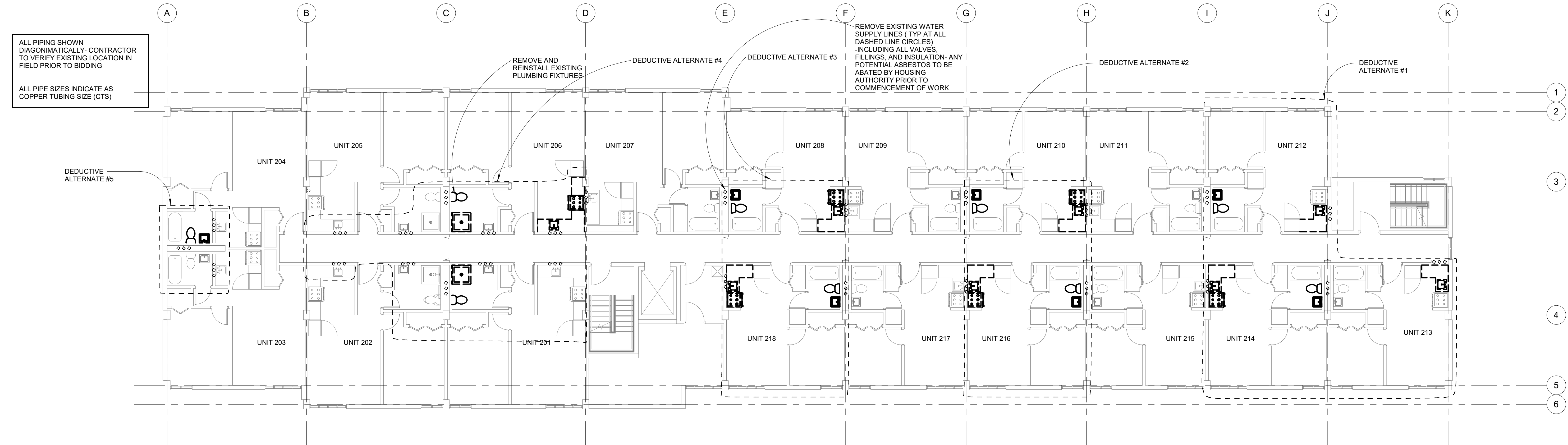


**2. FIRST FLOOR REFLECTED CEILING PLAN**  
Scale: 1/8" = 1'-0"

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



**1 FIRST FLOOR - WATER SUPPLY DEMO PLAN**  
Scale: 1/8" = 1'-0"



**2 SECOND FLOOR - WATER SUPPLY DEMO PLAN**  
Scale: 1/8" = 1'-0"



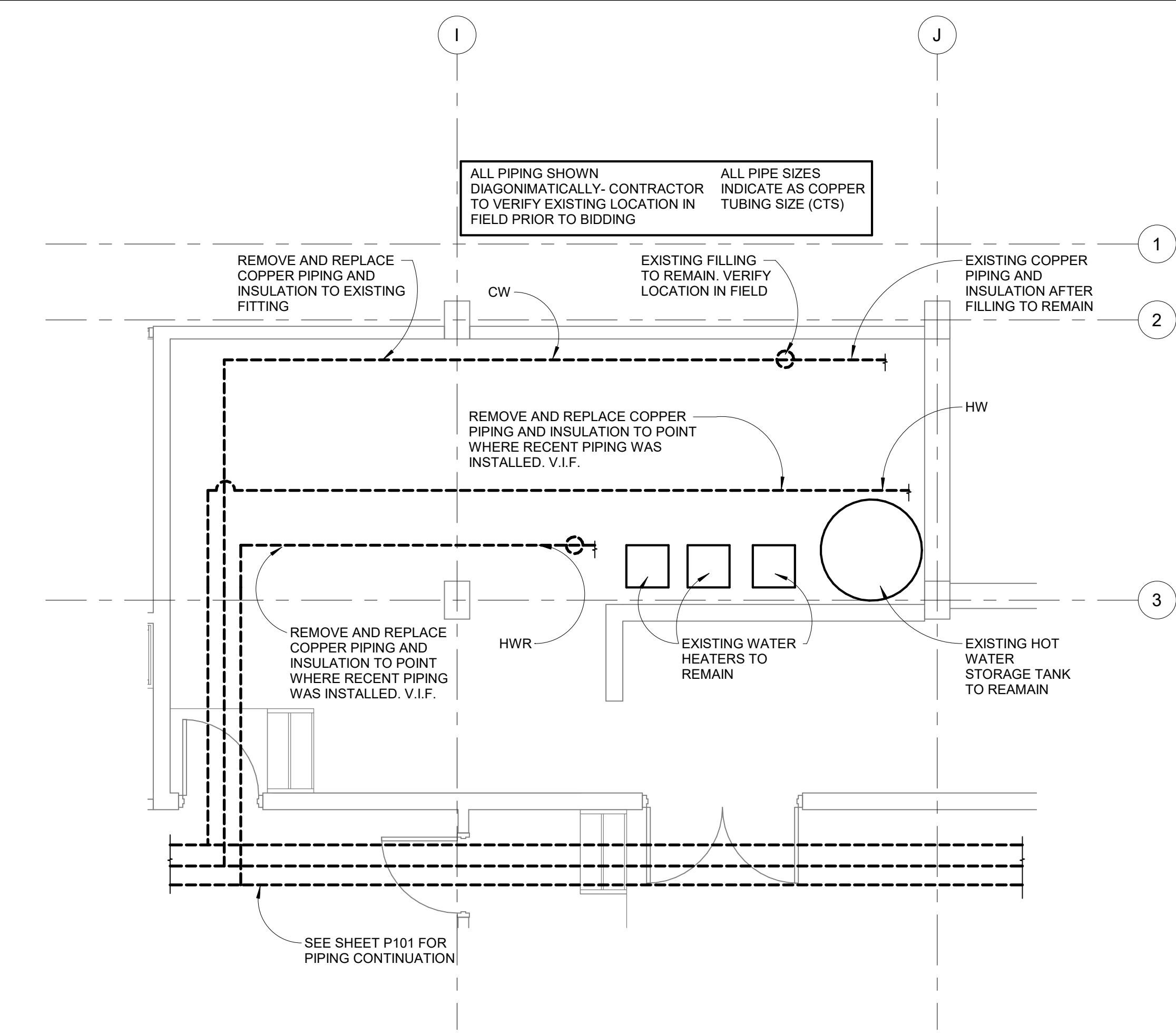
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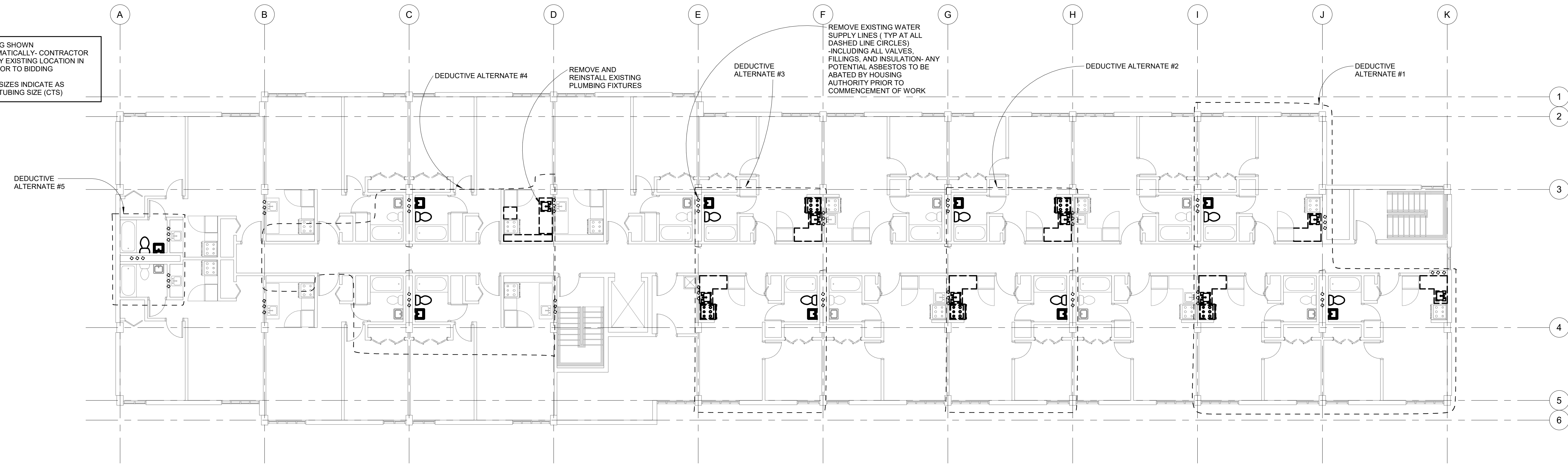
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2 FIRST FLOOR - LARGE SCALE BOILER ROOM DEMO PLAN  
Scale: 1/4" = 1'-0"



1 THIRD, FOURTH & FIFTH FLOORS - WATER SUPPLY DEMO PLAN  
Scale: 1/8" = 1'-0"



PLUMBING DEMOLITION PLANS - WATER SUPPLY

Sheet No:  
P102

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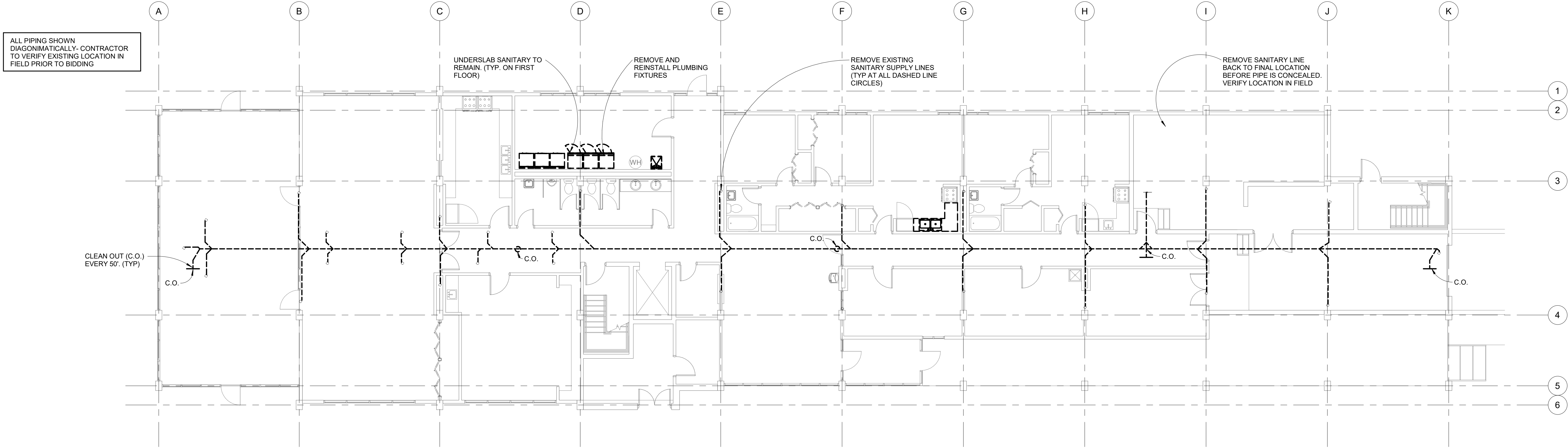
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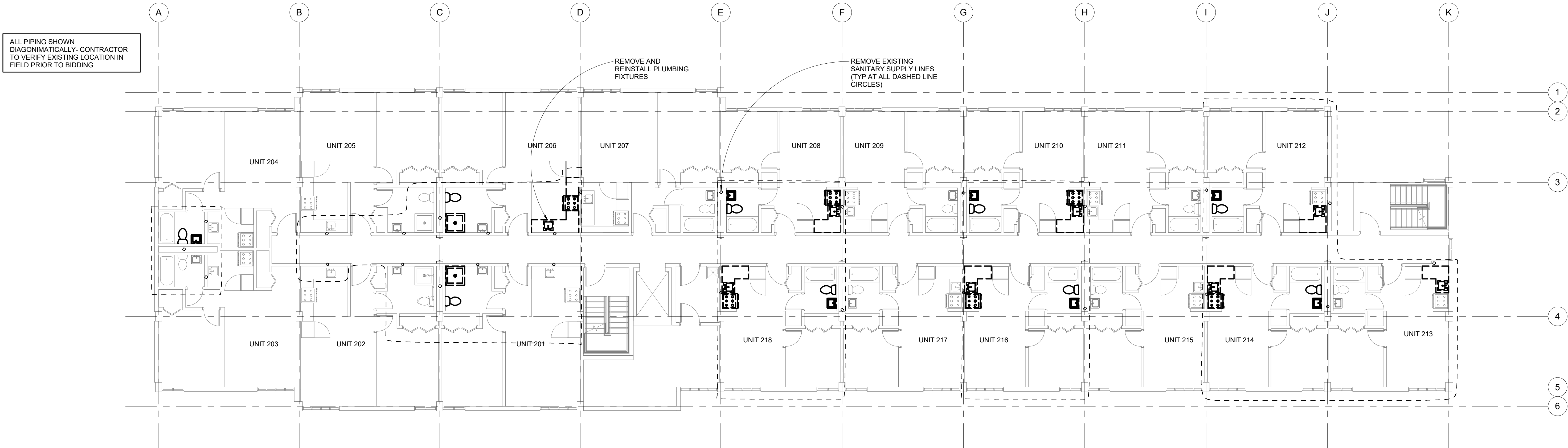
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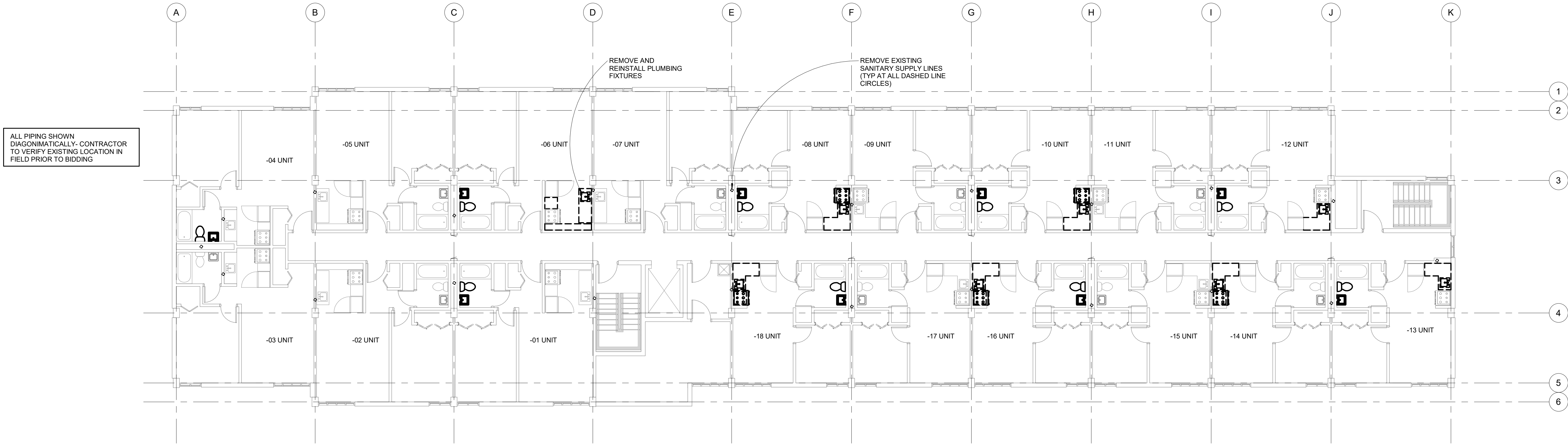


**1 FIRST FLOOR - SANITARY PIPE DEMO PLAN**  
Scale: 1/8" = 1'-0"



**2 SECOND FLOOR - SANITARY PIPE DEMO PLAN**  
Scale: 1/8" = 1'-0"

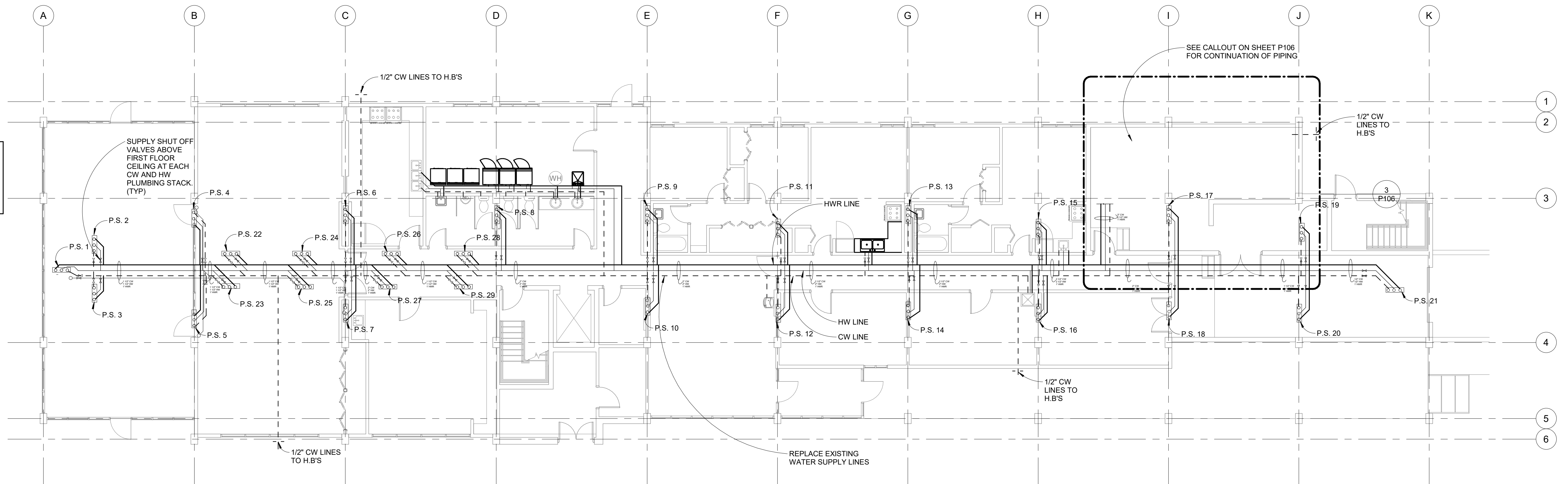




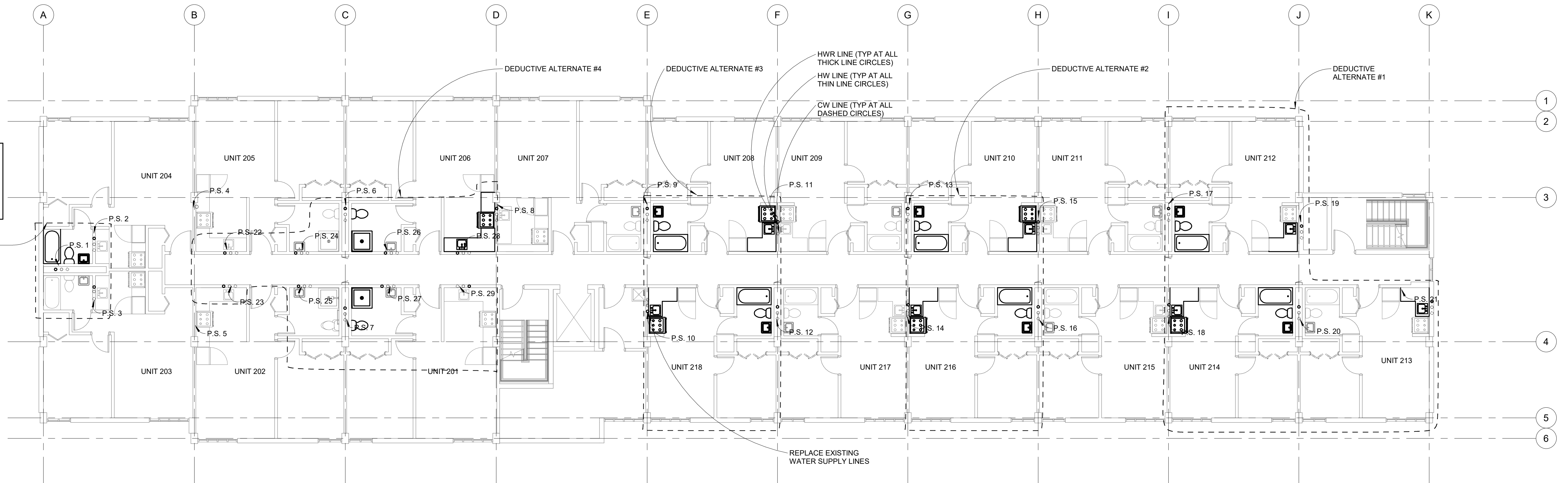
1 THIRD, FOURTH & FIFTH FLOORS - - SANITARY PIPE DEMO PLAN  
Scale: 1/8" = 1'-0"



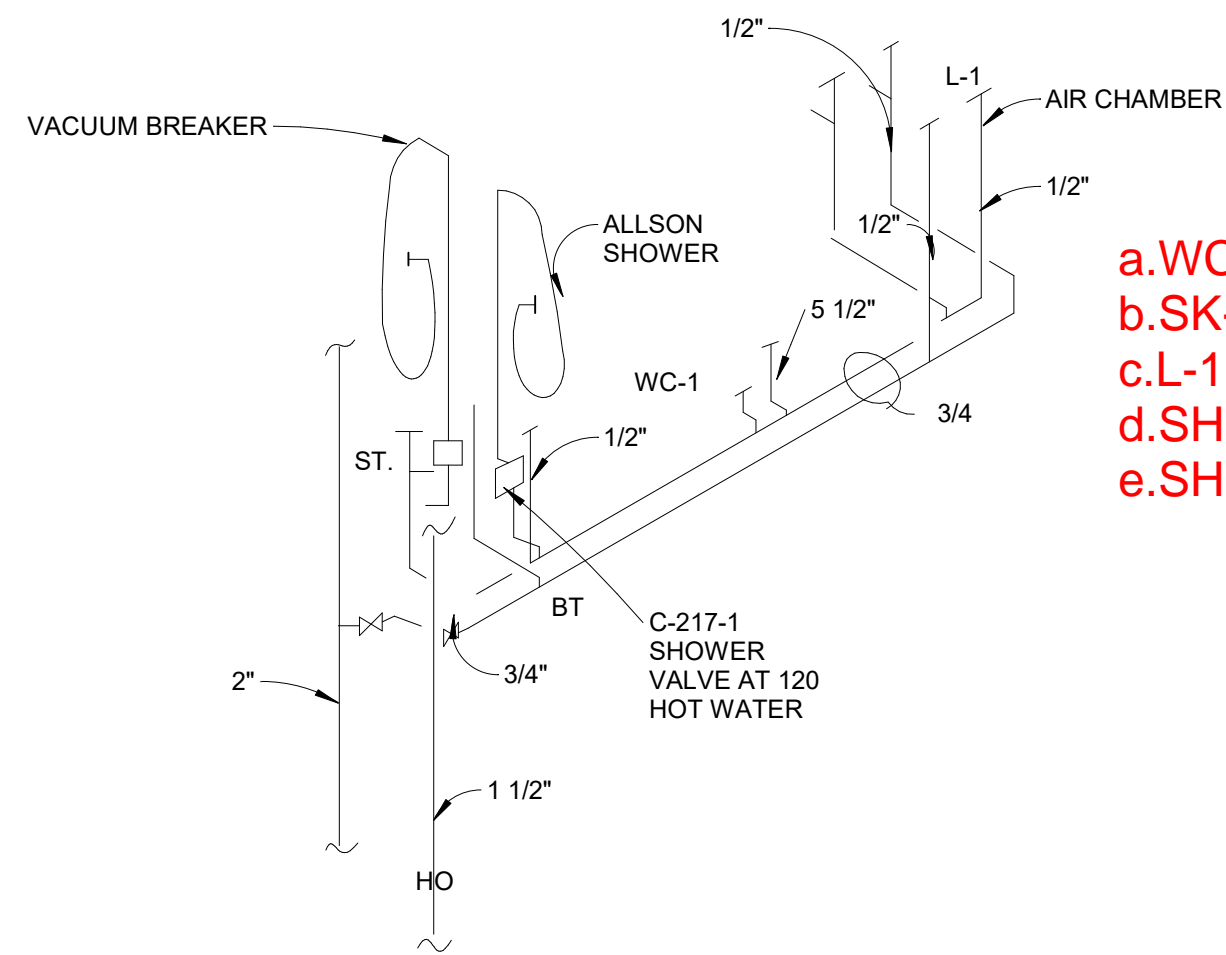




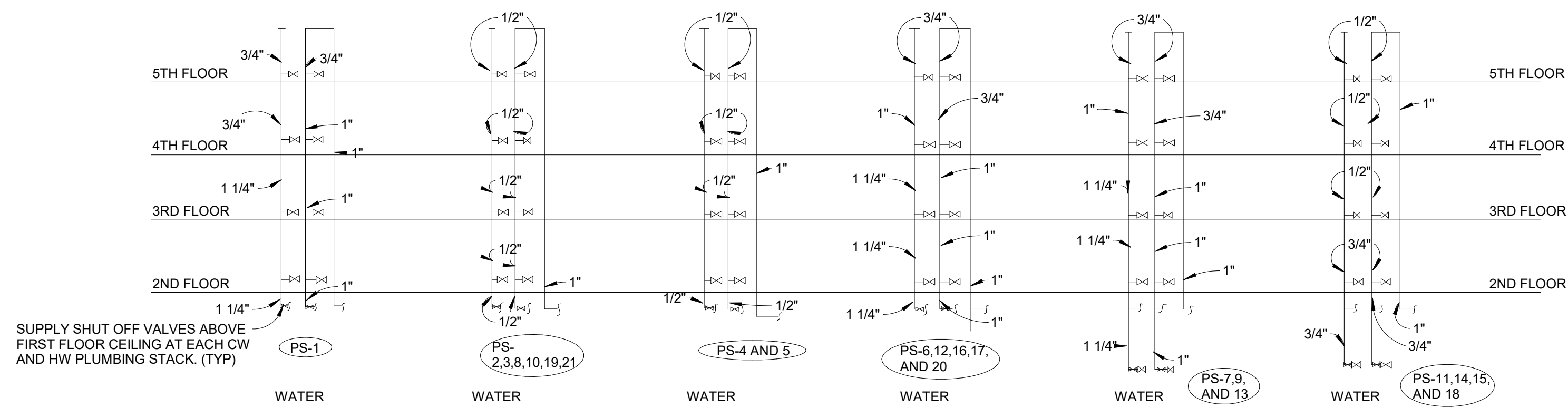
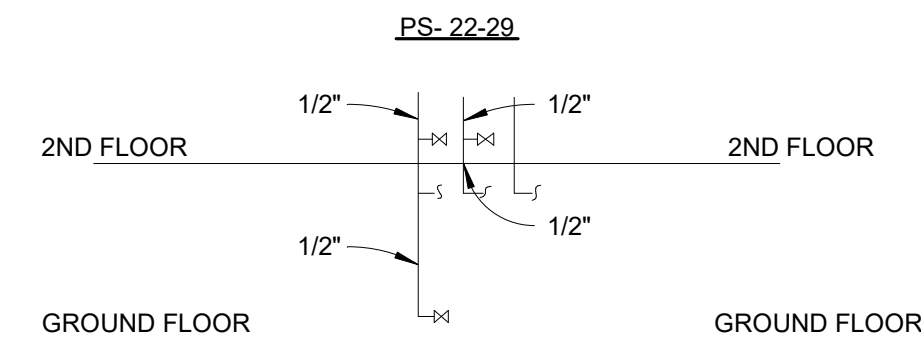
**1 FIRST FLOOR - WATER SUPPLY PLAN**  
Scale: 1/8" = 1'-0"



**2 SECOND FLOOR - WATER SUPPLY PLAN**  
Scale: 1/8" = 1'-0"



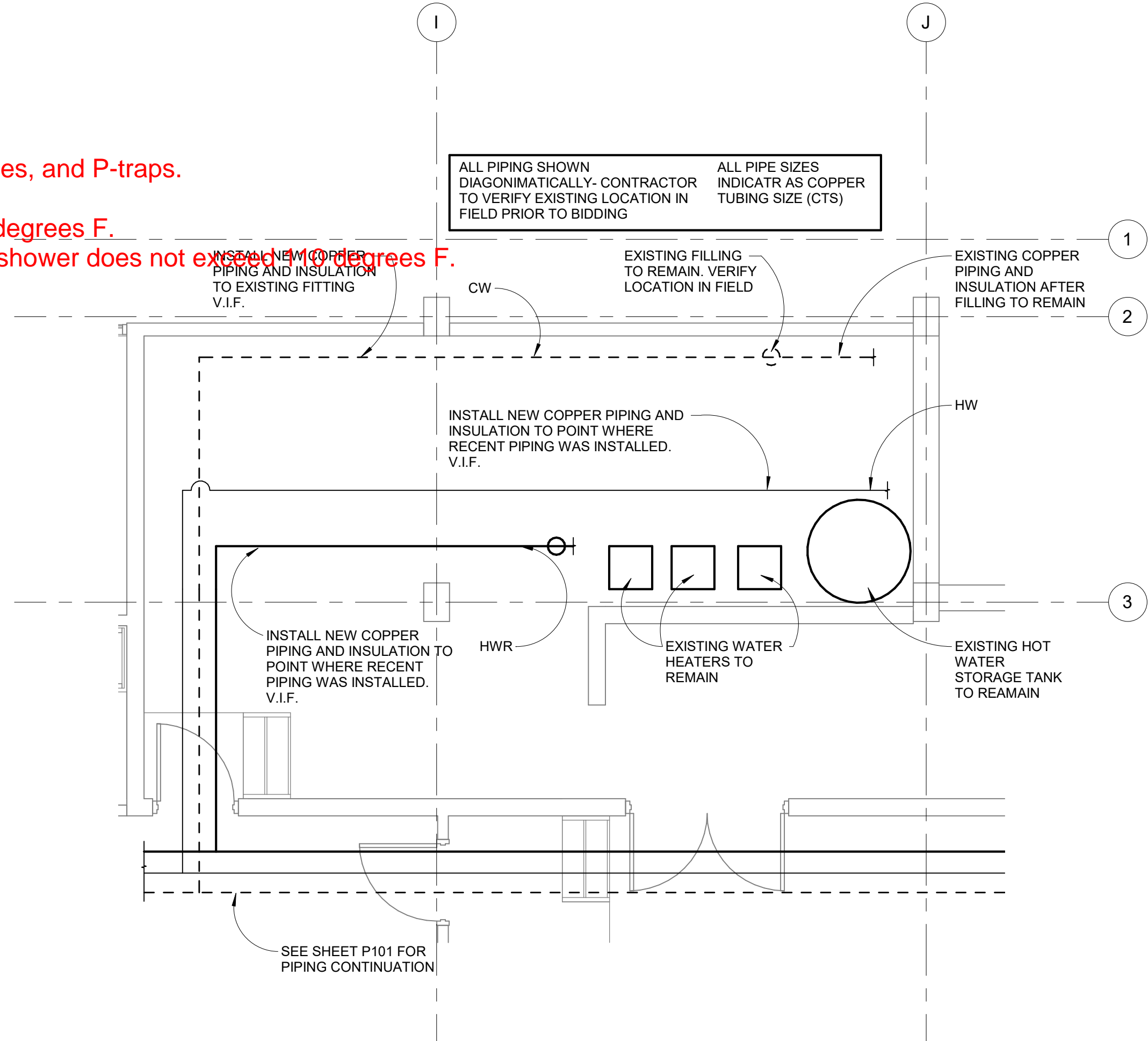
4 Typical Plumbing Stack  
Scale: 3/16" = 1'-0"



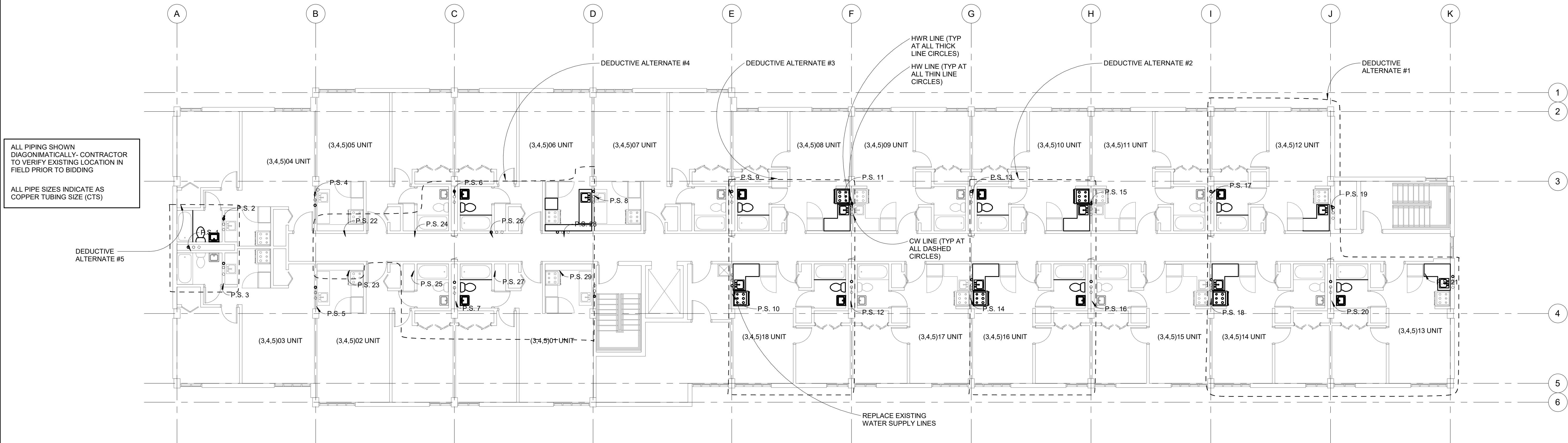
2 Water Riser Diagram  
Scale: 1/8" = 1'-0"

ADD PLUMBING FIXTURE SCHEDULE HERE

- a.WC-1 Water Closet: Provide chrome plated angle stop and riser tube.
- b.SK-1 Kitchen Sink: Delta Model B131OLF Single Lever Kitchen Faucet. Provide chrome plated angle stops, Riser tubes, and P-traps.
- c.L-1 Lavatory: Bathroom lavatory: Provide chrome plated angle stops and riser tubes.
- d.SH-1 Tub/Shower: Delta Model T13420-H20T, 1.5 GPM. Set handle limits stop so that shower does not exceed 110 degrees F.
- e.SH-2 ADA Shower: Delta to match existing and meet the ADA requirements. 1.5 GPM. Set handle limits stop so that shower does not exceed 110 degrees F.



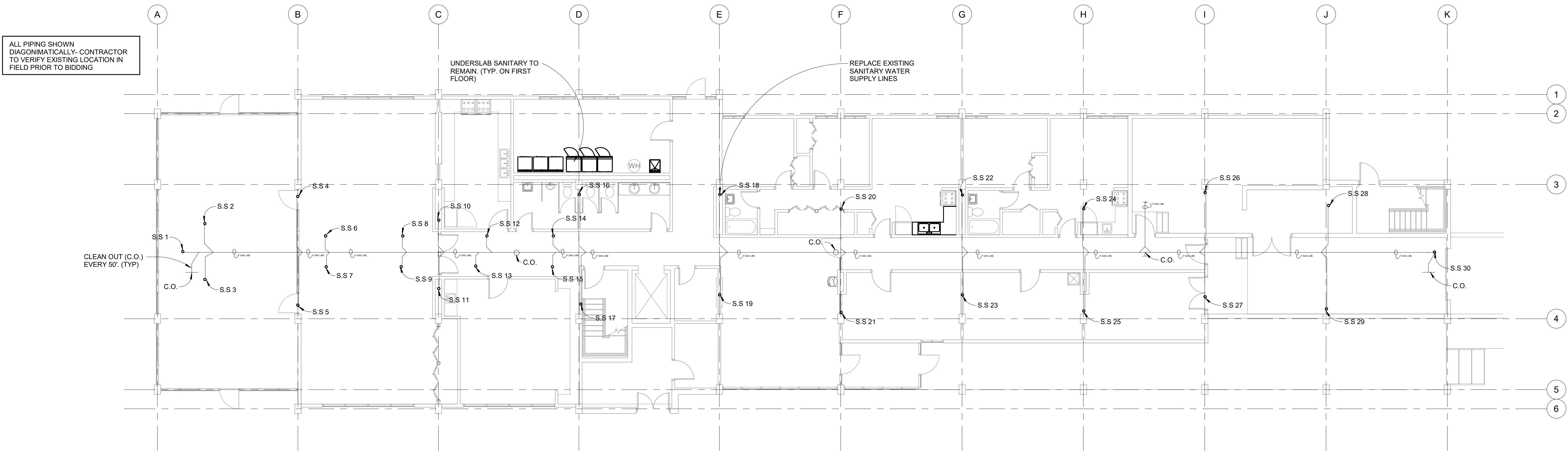
3 FIRST FLOOR - LARGE SCALE BOILER ROOM NEW WORK PLAN  
Scale: 1/4" = 1'-0"



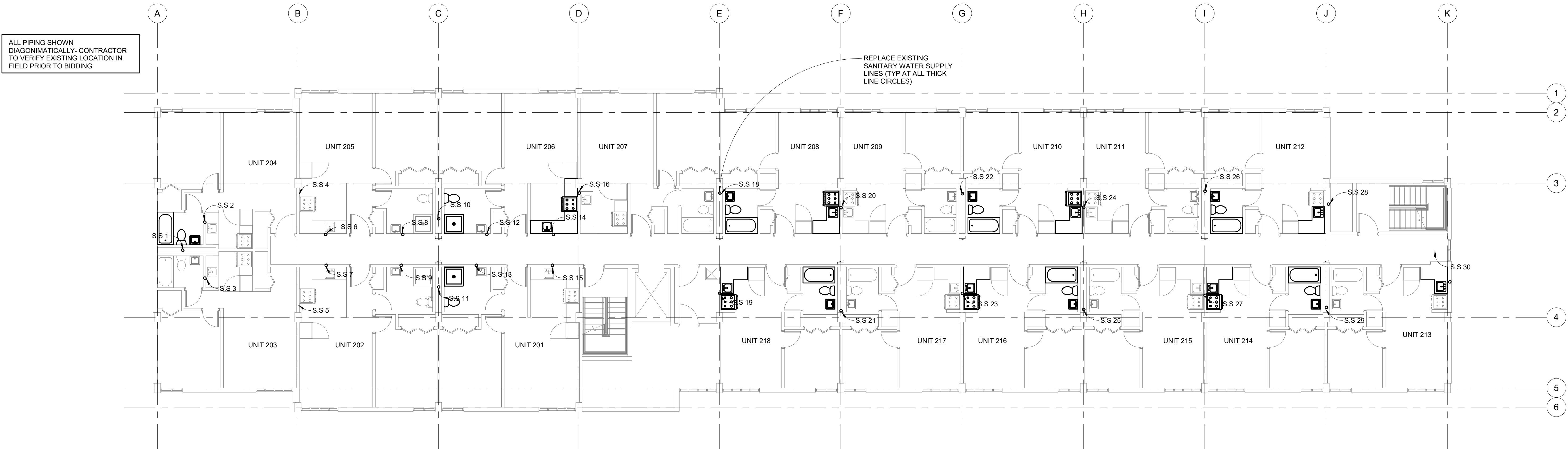
1 THIRD, FOURTH & FIFTH FLOORS - - WATER SUPPLY PLAN  
Scale: 1/8" = 1'-0"



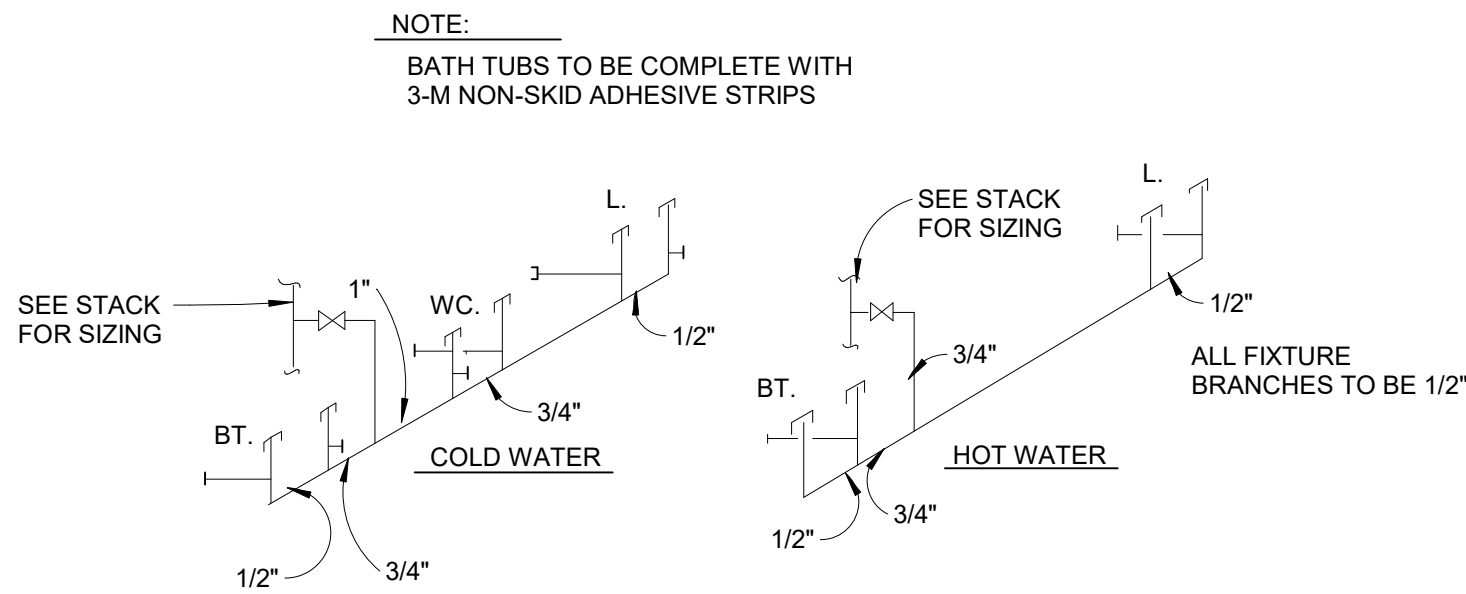




**1 FIRST FLOOR - SANITARY PIPE PLAN**  
Scale: 1/8" = 1'-0"

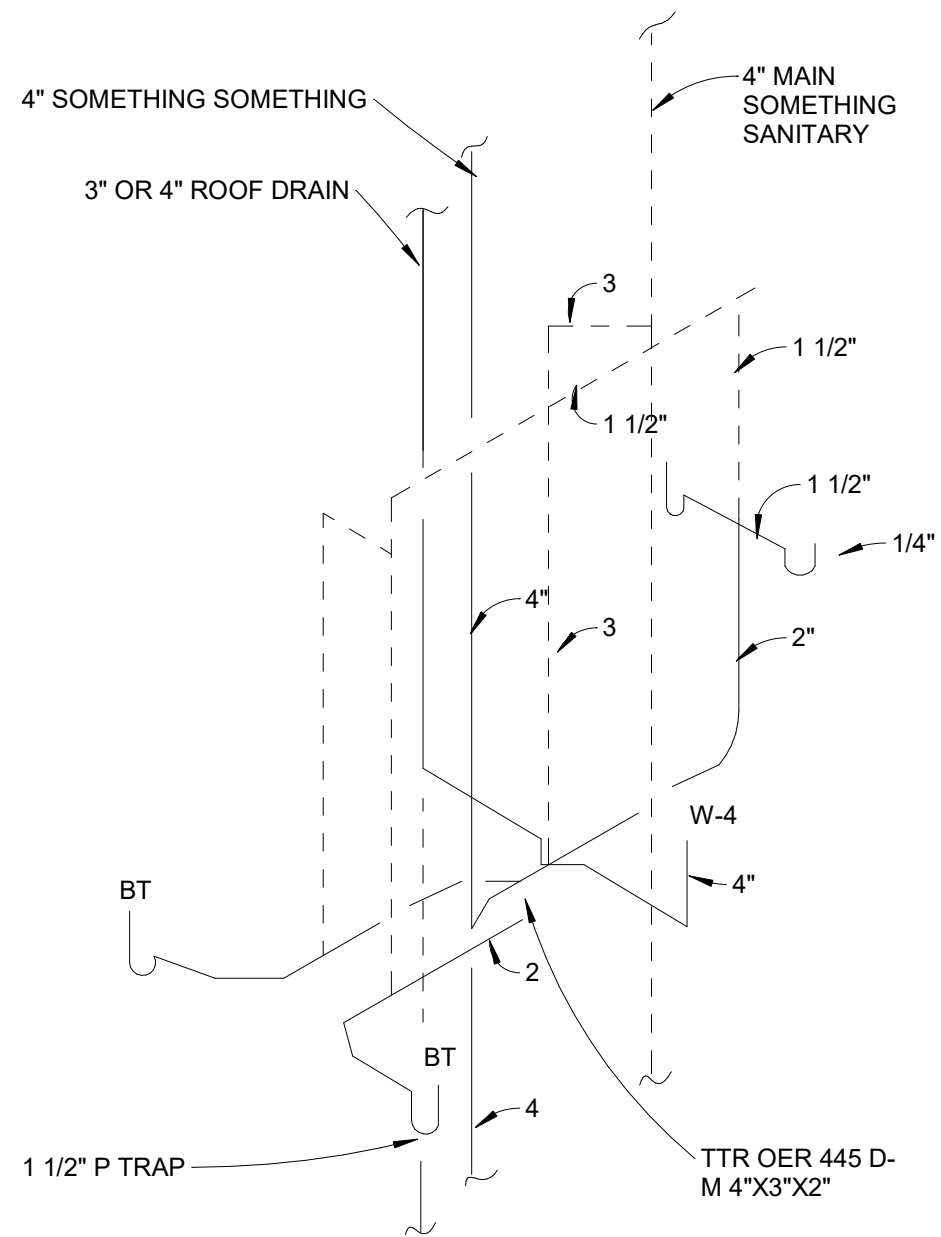


**2 SECOND FLOOR - SANITARY PIPE FLOOR PLAN**  
Scale: 1/8" = 1'-0"



2 Typical Water Piping

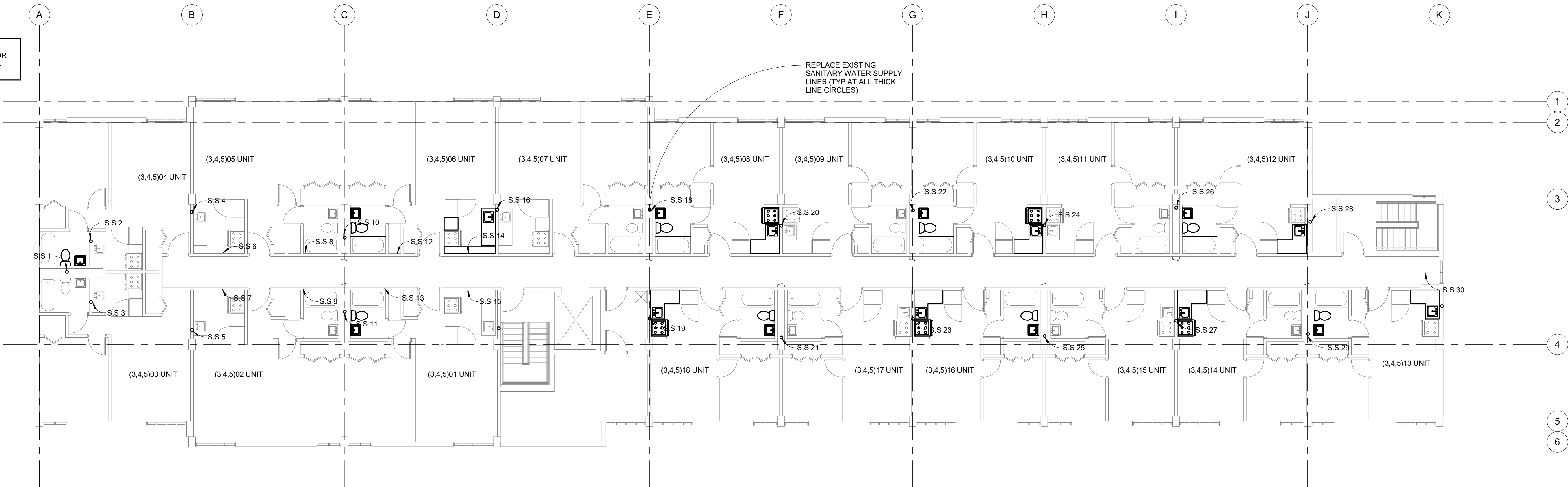
Scale: 3/16" = 1'-0"



4 Typical Sanitary Stack

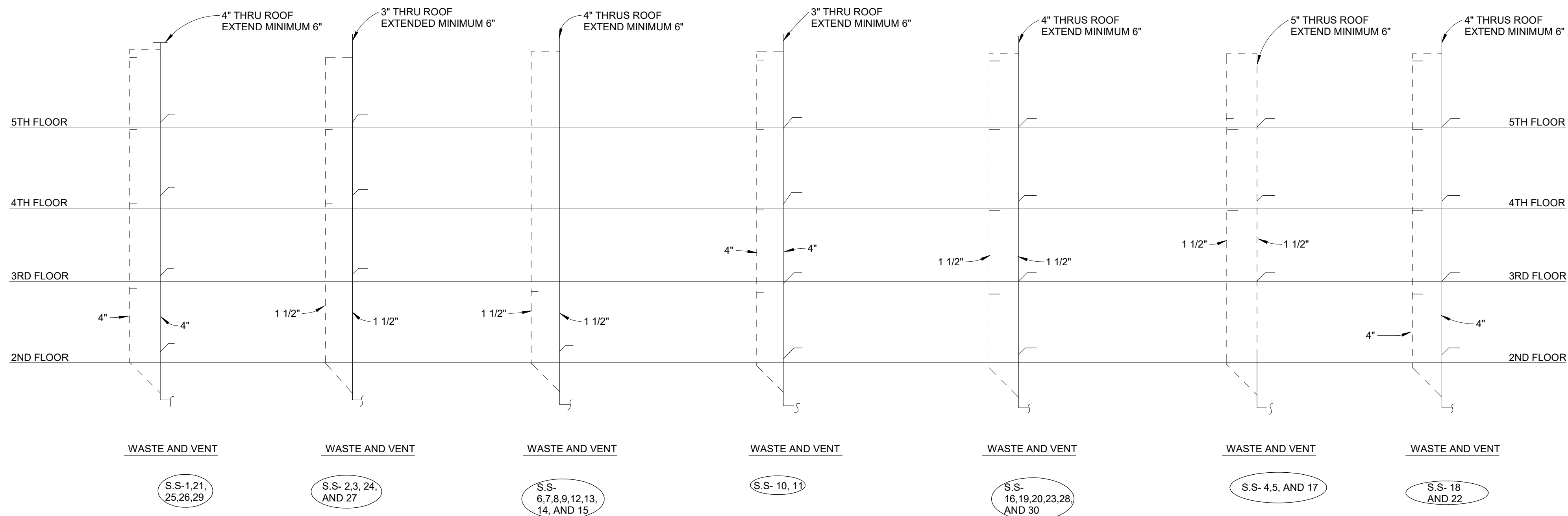
Scale: 3/16" = 1'-0"

ALL PIPING SHOWN  
DIAGONIMATICALLY- CONTRACTOR  
TO VERIFY EXISTING LOCATION IN  
FIELD PRIOR TO BIDDING



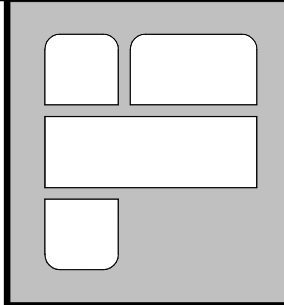
1 THIRD & FOURTH FLOOR - SANITARY PIPE FLOOR PLAN

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



3 Waste Water Riser Diagram

Scale: 3/16" = 1'-0"



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PLUMBING PLANS - SANITARY (ALTERNATE #1)

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PLUMBING SPECIFICATIONS		
<div>1. GENERAL</div> <div>1.1 DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.</div> <div>1.2 PROVIDE COMPLETE SYSTEMS AS CALLED FOR, AND/OR SHOWN, AND/OR SPECIFIED. PLUMBING CONTRACTOR SHALL FURNISH AND COMPLETELY INSTALL THE SYSTEM, SERVICE, EQUIPMENT, OR MATERIAL NAMED, TOGETHER WITH OTHER ASSOCIATED DEVICES, EQUIPMENT, MATERIALS, WIRING, PIPING, ETC., AS REQUIRED FOR A COMPLETE SATISFACTORY OPERATING INSTALLATION. OTHER SUBCONTRACTORS, AS REQUIRED TO PERFORM WORK CALLED FOR, SHALL BE RESPONSIBLE TO THE PLUMBING CONTRACTOR. SECURE ALL PERMITS FOR WORK AND INSPECTIONS AS REQUIRED.</div> <div>1.3 COORDINATION: BEFORE SUBMITTING HIS BID, CONTRACTOR AND MANUFACTURER SHALL CAREFULLY CHECK ALL PLANS AND SPECIFICATIONS FOR EVERY TRADE AND SHALL INCLUDE IN BID ALL WORK TO BE PROVIDED BY HIM. ALL TRADES SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCES AND CONFLICTS OF WORK. INDICATED WORK MUST BE COMPLETED AS SCHEDULED BY THE ARCHITECT. DETERMINE AT TIME OF BIDDING TO AVOID MISUNDERSTANDING. ANY DISCREPANCIES NOTICED AT TIME OF PRE-BID MEETING AND/OR INSPECTION OF SITE BY THOSE INSPECTING FOR BIDDING THE PROJECT, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY, SO THAT CORRECTIONS CAN BE MADE BY ADDENDUM PRIOR TO BID DATE.</div> <div>1.4 WORK PRIORITY OVER THE OTHER TRADES:  A. ALL CONTRACTORS FOR THE MECHANICAL-ELECTRICAL TRADES ARE TO BE GOVERNED AS FOLLOWS AND WORK IN COOPERATION WITH ONE ANOTHER TO FIT PIPING AND DUCTWORK INTO THE STRUCTURE AS JOB CONDITIONS MAY DEMAND. ALL FINAL DECISIONS AS TO RIGHT OF WAY AND RUN OF PIPE, DUCTS, ETC., TO BE MADE BY ARCHITECT.  B. IN GENERAL, PRIORITY IS TO BE ARRANGED AS FOLLOWS: 1. SPRINKLER HEADS. 2. RECESSED LIGHTING FIXTURES. 3. SHEET METAL DUCT WORK/HVAC UNITS. 4. PLUMBING WASTE LINES, DOWN SPOUTS AND VENTS. 5. REFRIGERATION LINES. 6. SPRINKLER LINES. 7. HEATING LINES. 8. PLUMBING WATER LINES. 9. ELECTRICAL CONDUITS. 10. CONTROL AIR LINES OR CONDUITS.</div> <div>1.5 ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER FOLLOWING THE BEST PRACTICE FOR THE CONSTRUCTION INDICATED.</div> <div>1.6 CODES &amp; STANDARDS:  A. WORK PERFORMED UNDER THIS CONTRACT SHALL BE GOVERNED BY THE LATEST AIA GENERAL CONDITIONS.  B. THE PLUMBING CONTRACTOR'S WORK SHALL CONFORM TO ALL PREVAILING CODES AND REGULATIONS PERTAINING TO THEIR WORK.  C. ALL MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS OF SUCH DEVICES, INCLUDING ADA AND UL REQUIREMENTS.  D. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LOCAL UTILITY COMPANY REGULATIONS. 1. IN CASE OF DIFFERENCES BETWEEN BUILDING CODES, LOCAL, STATE AND FEDERAL LAWS, AND UTILITY COMPANY REGULATIONS AND CONTRACT DOCUMENTS, MOST STRINGENT SHALL APPLY. PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY SUCH DIFFERENCE PRIOR TO SUBMITTING BID. 2. IN ADDITION TO THOSE LISTED ON SHEET G000, APPLICABLE CODES SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING: I. PIPING AND EQUIPMENT IDENTIFICATION PER ANSI A13.1 STANDARD SPECIFICATIONS AND OSHA REQUIREMENTS J. NATIONAL ASSOCIATION OF ROOFING CONTRACTORS K. OSHA L. LOCAL CODE AMENDMENTS TO LOCAL ORDINANCES OR CODES. M. ASTM, AWWA, WWP, ETC. AND OTHER SIMILAR CODES, STANDARDS, SPECIFICATIONS N. WHERE REFERENCE IS MADE IN THESE OR OTHER SPECIFICATIONS, IT SHALL BE THE LATEST REVISION AT THE TIME OF CALL FOR BIDS UNLESS SPECIFICALLY NOTED ON PLANS OR IN SPECIFICATIONS. O. SHOULD WORK BE PERFORMED WHICH DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE BUILDING CODES, STATE AND FEDERAL LAWS, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, CHANGES FOR COMPLIANCE SHALL BE DONE AT CONTRACTOR'S EXPENSE. P. EACH TRADE SHALL COOPERATE WITH AND ASSIST OTHER TRADES ON PROJECT IN CONFORMANCE WITH TRADE JURISDICTIONAL RULINGS AND SHALL PERFORM WORK WHICH IS WITHIN ITS JURISDICTION. Q. NOTIFY ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION PRIOR TO SUBMITTING BID.  E. ELECTRICAL EQUIPMENT, WIRING, GAS BURNING EQUIPMENT, HANDLING AND STORAGE EQUIPMENT, ALL DRAIN PIPING, REFRIGERATION PIPING, INSULATING MATERIALS, ETC., SHALL COMPLY WITH REQUIREMENTS OF NFPA, NEC, UL, AGA, OSHA, EPA, BOCA, STATE AND FEDERAL SAFETY CODES; FOR A PARTICULAR TYPE INSTALLATION AND SHALL BE SO LABELED WHERE APPLICABLE.</div> <div>1.7 PERMITS &amp; FEES: THE PLUMBING CONTRACTOR IS TO BE RESPONSIBLE FOR THE OBTAINING OF HIS RESPECTIVE PERMITS AND THEIR COST, AS WELL AS OTHER FEES NECESSARY TO THE PROJECT INCLUDING INSPECTIONS. PERMITS AND FEES SHALL ALSO BE INCLUDED FOR ALL REQUIRED NATURAL GAS, WATER, SANITARY, STORM, BUILDING DEPARTMENT REQUIREMENTS, ETC.</div> <div>1.8 MATERIALS: ALL MATERIALS ARE TO MEET OR EXCEED THE MINIMUM STANDARD OF A.S.T.M. AND THE APPROVAL OF STATE AND LOCAL CODES RESPONSIBLE FOR SUCH APPROVALS. IN NO CASE SHALL USED OR RECONDITIONED MATERIAL BE USED. ALL SHALL BE IN NEW AND WORKING ORDER. ALL MATERIALS SHALL BE OF USA MAKE.</div> <div>1.9 NEW FIXTURES: REGULAR AND ADA COMPLIANT REQUIREMENTS. FIXTURES - COMMERCIAL GRADE COMPLETE WITH ALL ASSOCIATED TRIM, SUPPORTS, CARRIERS, ETC.</div> <div>1.10 SUBMITTALS:  A. SUBMIT SIGNED SHOP DRAWINGS FOR ALL REQUIRED EQUIPMENT AND MATERIAL ITEMS PRIOR TO START OF CONSTRUCTION.  B. PROVIDE MAINTENANCE MANUALS.  C. PROVIDE "AS-BUILT" RECORD DRAWINGS ON REPRODUCIBLE MYLAR SEPIAS FOR ALL REQUIRED</div> <div>1.11 SYSTEMS AND ASSOCIATED COMPONENTS.  OPENINGS, SLEEVES AND CHASES:  A. CONTRACTOR SHALL SET SLEEVES AND INSERTS REQUIRED FOR PIPING, HANGERS, INTAKES, LOUVERS, VENTILATORS, DUCTWORK, CURBS, ETC., IN CONSTRUCTION. CONTRACTOR TO FURNISH GENERAL CONTRACTOR WITH COMPLETE INFORMATION AS TO SIZE AND LOCATION OF OPENINGS THROUGH WALLS, FLOORS, ROOFS, ETC., FOR INSTALLING THIS WORK. IF THIS INFORMATION IS NOT SUPPLIED BEFORE NEW WALLS, FLOORS, ROOFS, ETC., ARE BUILT, RESPECTIVE CONTRACTOR SHALL FURNISH CUT AND PATCH ALL REQUIRED OPENINGS FOR INSTALLATION OF EQUIPMENT, MATERIAL, DEVICES, ETC., AS REQUIRED AND APPROVED BY THE ARCHITECT. FOR NEW CONSTRUCTION, GENERAL CONTRACTOR WILL CUT HOLES THROUGH ROOF AND ROOFING CONTRACTOR WILL DO ALL FLASHING, ROOF PATCHING, ETC., UNLESS OTHERWISE NOTED. ROOF OPENINGS 18" AND LARGER SHALL BE FRAMED WITH HEADERS CONNECTED TO ROOF JOISTS WITH STEEL MEMBERS FRAMED BETWEEN, ALL ROOFING WORK AND EQUIPMENT TO MEET REQUIREMENTS OF NATIONAL ASSOCIATION OF ROOFING CONTRACTORS.</div> <div>1.12 EXAMINATION OF WORK:  A. CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE FOR THE WORK TO ELIMINATE MISCONCEPTIONS OF FACT, TO VERIFY DIMENSIONS, ELEVATIONS, LOCATION OF EXISTING EQUIPMENT, SERVICES, PIPING AND TO OBSERVE FEATURES AFFECTING WORKING CONDITIONS, TRANSPORTATION AND STORAGE FACILITIES. CONTRACTOR SHALL GIVE DUE CONSIDERATION TO SAME IN PREPARING PROPOSALS/BIDS AS EXCEPTIONS WILL NOT BE CONSIDERED AFTER AWARDED OF CONTRACT, NOR WILL CONTRACTOR BE ENTITLED TO ANY EXTRA COMPENSATION FOR HIS FAILURE TO DETERMINE CONDITIONS OR CONNECTIONS AT THE SITE.  B. THE RUN OF ALL LINES SHOWN ON DRAWINGS IS TO BE REGARDED AS DIAGRAMMATIC AND TENTATIVE; CONTRACTOR SHALL CAREFULLY VERIFY LOCATION, DEPTH, AND SIZE OF LINE SERVICE, ETC., TO WHICH CONNECTION IS PROPOSED. BEFORE INSTALLING ANY SERVICE, LINE CONNECTIONS, ETC., CONTRACTOR SHALL ASSURE THAT THEY CAN BE RUN/MADE AS CONTEMPLATED WITHOUT TRAPPING OR INTERFERING WITH FOOTING, OTHER PIPING, FIXTURES, ETC. ANY NECESSARY DEVIATION SHALL BE REFERRED TO ARCHITECT/ENGINEER FOR APPROVAL/AUTHORIZATION BEFORE ANY LINE OR SERVICE ARE RUN.</div> <div>1.13 WARRANTY: ALL SYSTEMS, MATERIALS, EQUIPMENT ITEMS, ETC. SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE YEAR AFTER SYSTEMS HAVE BEEN ACCEPTED BY THE OWNER.</div>	<div>2. PRODUCTS</div> <div>2.1 PIPING:  A. DOMESTIC WATER PIPING ABOVE GRADE: 1. CROSSLINKED POLYETHYLENE (PEX) PIPING; 1/4" TO 3" COPPER TUBE SIZE (CTS). SDR9 WITH STANDARD HYDROSTATIC PRESSURE RATINGS OF 160 PSI AT 73° F (1105 KPA AT 23° C) AND 100 PSI AT 180° F (690 KPA AT 82° C) IN ACCORDANCE WITH ASTM F878  B. SANITARY DRAINAGE ABOVE GRADE: 1. SCHEDULE 40/DWV POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, 1-1/4" THROUGH 12" PER ASTM D1785 AND ASTM D2665. NSF LISTED WITH SOLVENT CEMENT WELDED JOINTS PER ASTM D2564.  C. SANITARY DRAINAGE BELOW BUILDING: 1. SCHEDULE 40/DWV POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, 1-1/4" THROUGH 12" PER ASTM D1785 AND ASTM D2665. NSF LISTED WITH SOLVENT CEMENT WELDED JOINTS PER ASTM D2564.  D. VENT ABOVE GRADE: 1. SCHEDULE 40/DWV POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, 1-1/4" THROUGH 12" PER ASTM D1785 AND ASTM D2665. NSF LISTED WITH SOLVENT CEMENT WELDED JOINTS PER ASTM D2564.  E. VENT BELOW BUILDING: 1. SCHEDULE 40/DWV POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, 1-1/4" THROUGH 12" PER ASTM D1785 AND ASTM D2665. NSF LISTED WITH SOLVENT CEMENT WELDED JOINTS PER ASTM D2564.</div> <div>2.2 PIPING AND EQUIPMENT INSULATION:  A. ALL DOMESTIC WATER PIPING SHALL BE COVERED WITH 1" MINIMUM FIBERGLASS INSULATION WITH FACTORY-APPLIED ALL-PURPOSE JACKET CONSISTING OF HIGH-DENSITY, WHITE KRAFT PAPER BONDED TO ALUMINUM FOIL AND REINFORCED WITH FIBERGLASS YARN, STAPLED 6" O.C. AND SEALED WITH VAPOR BARRIER ADHESIVE OR USING SELF-SEALING LAP. COVERING SHALL BE EQUAL TO MANVILLE PRODUCTS MICRO-LOK 650 AND SHALL BE SUITABLE FOR SERVICES FROM 35 DEG. F TO 650 DEG. F, 3.5 POUND DENSITY. COVERING SHALL BE ARMSTRONG, KNAUF, MANVILLE, OWENS-CORNING OR EQUIVALENT MAKE. COVERING ON PIPING SHALL BE CONTINUOUS THROUGH HANGERS AND SLEEVES. HANGERS ON PIPING SHALL ENCIRCLE PIPE COVERING, BEAR ON A 20 GAUGE SHEET METAL PLATE FOUR DIAMETERS LONG. ENDS OF COVERING SHALL BE NEATLY TAPERED AND SEALED. ANY MILDEWED COVERING MUST BE REPLACED. FITTINGS SHALL BE COVERED WITH A ZESTON FITTING COVER AND FACTORY-SUPPLIED FIBERGLASS INSERT WHERE AVAILABLE. ALL INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 1/2" ARMAFLEX INSULATION MAY BE USED IN LIEU OF THE ABOVE, IN CONCEALED AREAS WITH SPACE LIMITATIONS.</div> <div>2.3 PIPE HANGERS:  A. HANGERS FOR DOMESTIC WATER PIPING SHALL BE COPPER, COPPER LINED OR COPPER PLATED. OTHER HANGERS TO BE STEEL. HANG PIPE ALONG WALLS WITH RING TYPE OR BRACKET TYPE RETURN LINE HANGERS, OTHER PIPING WITH ADJUSTABLE STEEL RODS AND RING TYPE CLEVIDSED HANGERS. HANGERS TO BE DOUBLE NUTTED SCREW TYPE BY CRANE, CRAWFORD, FEE MASON, GRINNELL OR EQUIVALENT MAKE. HANGERS SPACING FOR COPPER PIPING SHALL BE AS FOLLOWS: 1/2" - 1-1/4"; 6.0' O.C., 1-1/2" AND ABOVE: 10.0' O.C. HANGER SPACING FOR STEEL PIPING SHALL BE AS FOLLOWS: ALL SIZES - 12.0' O. C. HANGER SPACING FOR PVC PIPING SHALL BE AS FOLLOWS: ALL SIZES - 4.0' O.C.  B. ALL HANGERS SHALL BE ON EXTERIOR OF PIPE INSULATION. PLACE HANGER WITHIN 1" OF EACH HORIZONTAL ELBOW. SUPPORT HORIZONTAL SOIL WASTE AND STORM PIPING NEAR EACH HUB. SUPPORT VERTICAL PIPING AT EVERY FLOOR LINE. WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AT THE SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS. WHERE PRACTICAL, SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZONTAL PIPING.</div> <div>2.4 PLUMBING SPECIALTIES:  A. ACCESS PANELS (AP) 1. ACCESS PANELS FOR DRYWALL SHALL HAVE 16 GAUGE STEEL FRAME, 14 GAUGE PANEL WITH A GALVANIZED STEEL DRYWALL BEAD SURROUNDING THE FRAME. PRIME COAT SHALL BE FACTORY APPLIED, BAKED-ON ENAMEL, SUITABLE FOR PAINTING. HINGES SHALL BE CONCEALED SPRING TYPE, OPENING TO 175 DEGREES. LOCKS SHALL BE FLUSH, SCREWDRIVER OPERATED, WITH METAL CAM. PANELS SHALL NOT BE SMALLER THAN 12" X 12". PANELS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR AT THE EXPENSE OF THE MECHANICAL CONTRACTOR.  B. CLEANOUTS AND CLEANOUT ACCESS COVERS (CO): 1. SEE SCHEDULE ON DRAWINGS.  C. DRAINS 1. SEE SCHEDULE ON DRAWINGS.  D. VALVES: 1. ACCEPTABLE MANUFACTURERS: APOLLO, HAMMOND, MILWAUKEE, MUELLER, NIBCO, POWELL, ROCKWELL-NORDSTROM, STOCKHAM, WATTS 2. BALL VALVES (BV): A. INSULATED PIPING SYSTEMS: 1) FORGED BRASS BODY AND TRIM, TWO PIECE, FULL PORT, METAL INSULATED 3" HIGH STEM EXTENSION LEVER HANDLE, ADJACENT UNION OR FLANGE WITH NPT THREADED ENDS, 1/4" THROUGH 4", 600 PSI WORKING PRESSURE FOR 1/4" THROUGH 2", 400 PSI WORKING PRESSURE FOR 2-1/2" THROUGH 4". ALL FOR WOG INSTALLATIONS OR 150 SWP. 2) FORGED BRASS BODY AND TRIM, TWO PIECE, FULL PORT, METAL INSULATED 3" HIGH STEM EXTENSION LEVER HANDLE, ADJACENT UNION WITH SWEAT ENDS, 3/8" THROUGH 4", 400 PSI WORKING PRESSURE FOR WOG INSTALLATIONS. B. NON-INSULATED PIPING SYSTEMS: 1) FORGED BRASS AND TRIM, TWO PIECE, FULL PORT, METAL INSULATED EXTENSION LEVER HANDLE, ADJACENT UNION OR FLANGE WITH NPT THREADED ENDS, 1/4" THROUGH 4", 600 PSI WORKING PRESSURE FOR 1/4" THROUGH 2", 400 PSI WORKING PRESSURE FOR 2-1/2" THROUGH 4". ALL FOR WOG INSTALLATIONS OR 150 SWP. 2) FORGED BRASS BODY AND TRIM, TWO PIECE, FULL PORT, METAL INSULATED EXTENSION LEVER HANDLE, ADJACENT UNION WITH SWEAT ENDS, 3/8" THROUGH 4", 400 PSI WORKING PRESSURE FOR WOG INSTALLATIONS.  E. CHECK VALVES (CKV): 1. BRONZE BODY, 2" AND UNDER, 125 LB. SWP, 200 LB. WOG WORKING PRESSURE, ADJACENT UNION WITH THREADED ENDS, SWING CHECK WITH BRASS DISC AND HINGE AND PIN, SCREW IN CAP FOR CLEAR WATER ONLY. MFR. POWELL NIBCO MILWAUKEE CKV 578 T-413-B 509T  F. PLUG VALVES (PL): 1. IRON BODY, 1/2" THROUGH 4", THREADED ENDS, WRENCH OPERATED, TO 150 DEG. F OPERATING TEMPERATURE AT 150 PSIG CWP WITH AMBIENT TEMPERATURES OF -20 TO 150 DEG. F FOR WOG INSTALLATIONS.  MFR. ROCKWELL NORDSTROM PL FIGURE 142  2. IRON BODY, 1" THROUGH 12", FLANGED ENDS, WRENCH OPERATED, TO 150 DEG. F OPERATING TEMPERATURE AT 150 PSIG CWP WITH AMBIENT TEMPERATURES OF -20 TO 150 DEG. F FOR WOG INSTALLATIONS.  MFR. ROCKWELL NORDSTROM PL FIGURE 143</div> <div><del>G. GAS COCKS: 1. 2-1/2" AND SMALLER: SCREWED IRON BODY WITH BRASS TRIM AND FLAT HEAD, 3" AND LARGER: FLANGED IRON BODY WITH IRON TRIM AND SQUARE HEAD.</del></div> <div><del>H. WATER HEATERS: 1. SEE SCHEDULE ON DRAWINGS.</del></div> <div>I. WALL HYDRANTS: 1. SEE SCHEDULE ON DRAWINGS.  J. PLUMBING FIXTURES: 1. SEE SCHEDULE ON DRAWINGS.</div>	<div>3. EXECUTION</div> <div>3.1 GENERAL:  A. THE PLUMBING CONTRACTOR SHALL INCLUDE ALL REQUIREMENTS AS NOTED HEREIN AND AS REQUIRED TO PROVIDE A COMPLETE, SAFE, OPERATING BUILDING PLUMBING SYSTEM.  B. SYSTEM AND EQUIPMENT INSTALLATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: 1. BACKFLOW PREVENTION: A. INSTALL HOSE CONNECTIONS WITH VACUUM BREAKERS. 2. CLEANOUTS: A. CLEANOUTS SHALL BE INSTALLED AT POINTS AS NOTED ON THE DRAWINGS AS WELL AS AT THE FOOT OF EACH SOIL, WASTE OR INTERIOR DOWNSPOUT STACK, AND AT OTHER POINTS AS REQUIRED FOR EASY SYSTEM MAINTENANCE. CLEANOUTS SHALL BE FULL SIZE OF THE PIPE UP TO 4", AND 4" SIZE FOR PIPES ABOVE 4". GREASE ALL CLEANOUT PLUGS B. FLOOR CLEANOUTS: IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE THE TYPE OF FLOOR COVERING TO BE USED AT EACH CLEANOUT LOCATION AND TO ROUGH-IN AND INSTALL EACH CLEANOUT FLUSH WITH THE FINISHED FLOOR CONSTRUCTION. 3. DOMESTIC COLD WATER SYSTEM: A. PROVIDE A DOMESTIC COLD WATER PIPING SYSTEM TO ALL FIXTURES AND EQUIPMENT REQUIRING SAME, INCLUDING VALVES, HANGERS AND PIPE INSULATION. 4. DOMESTIC HOT WATER SYSTEM: A. PROVIDE A DOMESTIC HOT WATER PIPING SYSTEM TO ALL FIXTURES REQUIRING HOT WATER, INCLUDING VALVES, HANGERS, PIPE INSULATION. 5. MOUNT FIXTURES AT HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS. 6. INTERIOR SANITARY SEWER SYSTEM: A. PROVIDE AN INTERIOR SANITARY SEWER AND VENT PIPING SYSTEM INCLUDING OVERHEAD PIPING, UNDERGROUND PIPING, VENT THROUGH ROOF, HANGERS, EXCAVATION, BACKFILLING AND COMPACTION. 7. SLEEVES OR PENETRATIONS: A. ALL PIPE PENETRATIONS THROUGH WALLS AND FLOORS SHALL HAVE SLEEVES. SLEEVES SHALL BE CAULKED IN A FIREPROOF AND WATERPROOF MANNER. 8. TRENCHING: A. PROVIDE A MINIMUM OF 3" GRANULAR BEDDING MEETING CA13, CA14 OR CA6 MODIFIED PER ASTM D-2321 AROUND ALL UNDERGROUND OR UNDERFLOOR PIPING. GRANULAR BEDDING SHALL EXTEND TO A MINIMUM OF 12" ABOVE THE SPRING LINE OF THE PIPE. COMPACT TO 95% PER ASTM D1557. 9. TESTING: A. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED TO MEET ALL REQUIREMENTS OF ALL APPLICABLE CODES AND INCLUDING THE FOLLOWING REQUIREMENTS: 1) ALL WATER PIPING SHALL BE TESTED TO 125 PSI FOR TWO HOURS. 2) GAS PIPING SHALL BE TESTED TO 100 PSI FOR TWO HOURS. 3) ALL WASTE, VENT AND STORM SEWER SYSTEM SHALL BE TESTED WITH WATER WITH 10' OF HEAD. 4) EXTERIOR SANITARY SEWERS SHALL BE AIR TESTED.  C. CHLORINATION 1. ALL EXTERIOR AND INTERIOR WATER SYSTEMS SHALL BE CHLORINATED BEFORE PLACING THE SYSTEMS INTO SERVICE. STERILIZATION PROCEDURES SHALL CONFORM TO AWWA STANDARD C601. STERILIZING AGENT SHALL BE RETAINED IN THE PIPING SYSTEM LONG ENOUGH TO KILL ALL BACTERIA WITH A MINIMUM OF 24-HOUR DETENTION TIME. AFFIDAVIT OF COMPLIANCE SHALL BE THE BACTERIOLOGICAL TESTS CERTIFYING THAT THE WATER HELD IN THE PIPING SYSTEM, EQUIPMENT OR STORAGE FACILITY IS FREE OF COLIFORM BACTERIA CONTAMINATION FOR TWO CONSECUTIVE DAYS.</div> <div>3.1 GENERAL (CONTINUED)  D. CLEANING: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF HIS EQUIPMENT, SYSTEMS, AND SHALL REMOVE ALL DEBRIS CREATED BY HIM FROM THE PREMISES. ENTIRE WORK AREA SHALL ALSO BE BROOM CLEANED.  E. PAINTING: 1. NO PAINTING OF INTERIOR PIPING SHALL BE IN THE PLUMBING CONTRACT. 2. EXTERIOR NATURAL GAS PIPING SHALL BE PRIMED AND PAINTED WITH A CORROSION INHIBITOR TYPE PRIMER AND PAINT.  F. IDENTIFICATION: 1. PROVIDE PIPE MARKERS ON ALL PIPING SYSTEMS PER ANSI A13.1 SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS AND 253.1 SAFETY COLOR CODE FOR MARKING PHYSICAL HAZARDS AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW. LOCATE PIPE MARKERS AS FOLLOWS: A. WHEREVER PIPING IS EXPOSED TO VIEW IN NON-CONCEALED LOCATIONS. B. ON PIPING ABOVE REMOVABLE ACOUSTICAL CEILINGS. C. NEAR EACH VALVE AND CONTROL DEVICE. D. NEAR EACH BRANCH CONNECTION. E. NEAR LOCATIONS WHERE PIPES PASS THROUGH WALLS OR FLOORS/CEILINGS OR ENTER NON-ACCESSIBLE ENCLOSURES. F. AT ACCESS DOORS AND SIMILAR ACCESS POINTS. G. NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION. H. SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 50 FEET ALONG EACH PIPING RUN, EXCEPT REDUCE SPACING TO 25 FEET IN CONGESTED AREAS OF PIPING AND EQUIPMENT. I. FUEL GAS PIPING SHALL BE IDENTIFIED AT INTERVALS OF NOT MORE THAN 50 FEET IN EXPOSED LOCATIONS, NOT MORE THAN 25 FEET IN CONCEALED LOCATIONS AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.  G. GUARANTEE: 1. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, MATERIALS AND WORKMANSHIP ENTERING INTO THIS CONTRACT AND SHALL REPLACE ALL PARTS AT HIS OWN EXPENSE WHICH HAVE PROVEN DEFECTIVE WITHIN ONE (1) YEAR FROM FORMAL ACCEPTANCE. INDIVIDUAL ITEMS SHALL BE GUARANTEED AS CALLED FOR IN ADDITION TO THE ABOVE.  H. RECORD DOCUMENTS: 1. CONTRACTOR TO RETAIN ON SITE ONE (1) COMPLETE MARKED UP SET OF "AS-BUILT" PROJECT PRINTS TO BE TURNED OVER TO THE OWNER AT COMPLETION OF PROJECT. FINAL RECORD COPIES SHALL BE SUBMITTED FOR REVIEW, SAME AS REQUIRED FOR SHOP DRAWINGS. CONTRACTOR SHALL RETAIN COPY OF PROJECT FOR HIS RECORDS.</div> <div>END OF SECTION 15400 - PLUMBING</div>