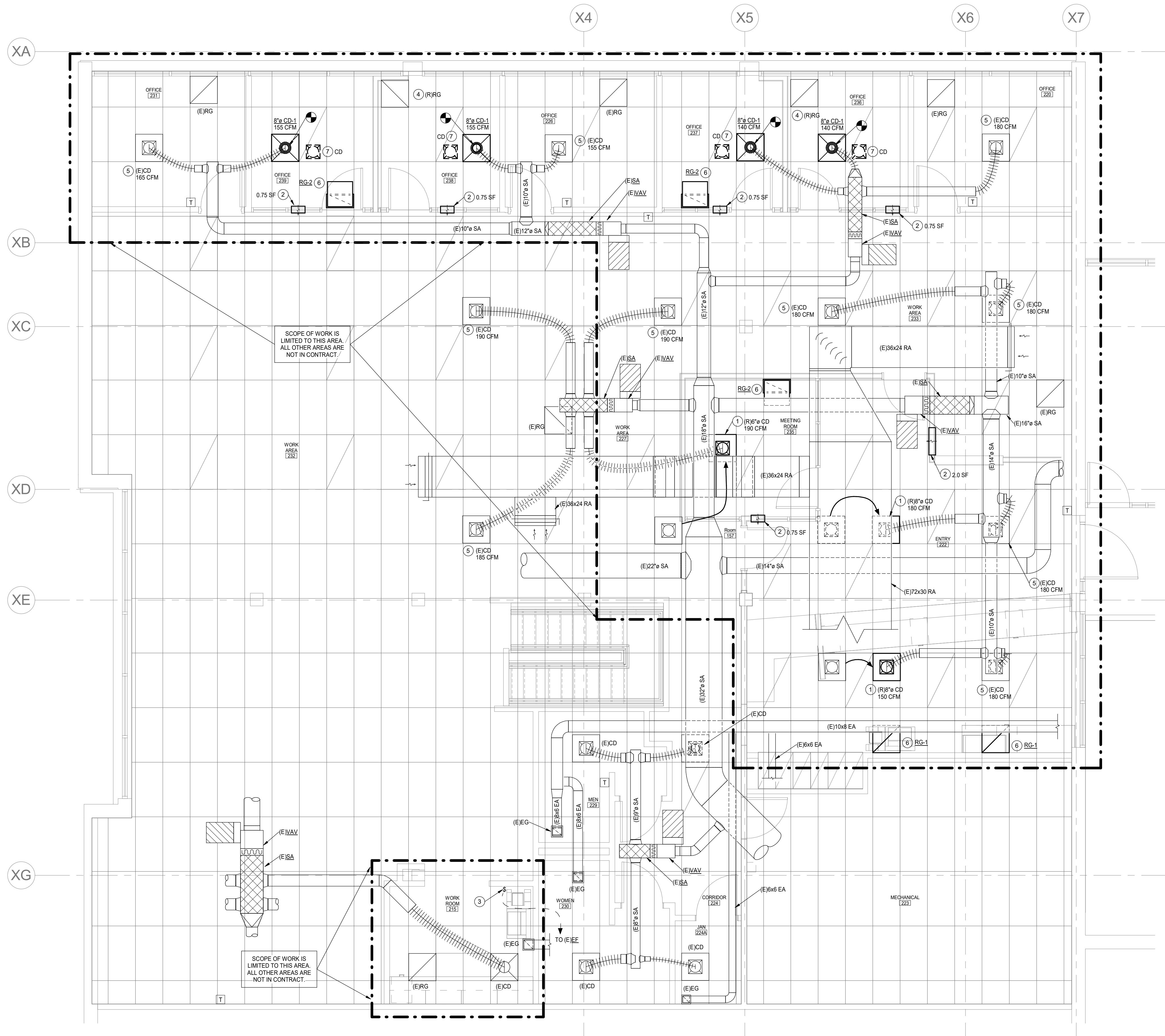


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PARTIAL SECOND FLOOR HVAC PLAN
SCALE: 1/4" = 1'-0"

SECOND FLOOR HVAC KEYNOTES:

- 1 RELOCATE CEILING DIFFUSER TO ALIGN WITH NEW LAY-IN CEILING GRID AND BALANCE TO AIRFLOW QUANTITY INDICATED. REPLACE DAMAGED FLEX DUCT OR FLEX DUCT THAT IS TOO SHORT TO ACCOMMODATE NEW CEILING DIFFUSER LOCATION WITH SAME SIZE AS EXISTING.
- 2 MECHANICAL CONTRACTOR SHALL ENSURE A FREE AREA OPENING OF SIZE INDICATED OR GREATER IS PROVIDED FOR THE FREE PASSAGE OF TRANSFER AIR THROUGH WALL ABOVE CEILING. MULTIPLE OPENINGS ARE ACCEPTABLE TO ACHIEVE LISTED AREA.
- 3 REMOVE EXISTING EXHAUST FAN CONTROL FROM EXISTING LIGHT SWITCH AND PROVIDE NEW SWITCH ON WALL TO CONTROL EXISTING EXHAUST FAN. REFER TO ELECTRICAL PLANS.
- 4 RELOCATE RETURN GRILLE TO ALIGN WITH NEW LAY-IN CEILING GRID.
- 5 REBALANCE EXISTING CEILING DIFFUSER TO AIRFLOW QUANTITY INDICATED.
- 6 NEW RETURN GRILLE OF TYPE INDICATED.
- 7 REMOVE EXISTING AIR DEVICE.



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**Wheat Ridge City Hall
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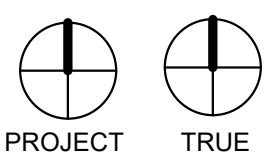
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PARTIAL SECOND FLOOR HVAC PLAN



M102B

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PLUMBING FIXTURE SCHEDULE									
PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
S-1	SINK - DOUBLE COMPARTMENT (ACCESSIBLE)	ELKAY	LRAD3321	STAINLESS STEEL	FAUCET	DELTA	2480-DST W/ SPRAY	CHROME	NOTES: 1,2,3,4,7
GDU-1	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	BADGER 5	-	-	-	-	-	1/2 H.P. 120/60/1
GF-1	GLASS FILLER	DELTA	1977-DST	CHROME	-	-	-	-	NOTE: 6
IMB-1	ICE MAKER BOX	SIOUX CHIEF	696-101	WHITE	-	-	-	-	NOTE: 5
NOTES: 1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH L.K. STOPS 2. S.S. CRUMB CUP STRAINER. 3. 1.5 GPM FLOW RESTRICTOR. 4. INSULATION KIT ON SUPPLIES AND DRAIN. 5. WITH ARRESTORS. 6. WITH 3M AP EASY CS-FF FILTRATION SYSTEM. 7. 5-HOLE PUNCH.									

PLUMBING FIXTURE CONNECTION SCHEDULE									
PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE			COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	VENT (MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
S	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	

GENERAL LEGEND		
ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
F.P.C.		FIRE PROTECTION CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
(N)		NEW
(E)		EXISTING
		EXISTING (DEMOLITION OR REMOVED)
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		BALL VALVE
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE

PLUMBING LEGEND		
ABBV.	SYMBOL	DESCRIPTION
GDU		GARBAGE DISPOSAL UNIT
S		SINK
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
V		SANITARY VENT
D		DRAIN PIPING
VTR		VENT THRU ROOF

SHEET INDEX		
SHEET NUMBER	PLUMBING & FIRE PROTECTION SHEET TITLE	SHEET SCALE
P000A	PLUMBING COVER SHEET - LEGEND, GENERAL NOTES, SPECIFICATION, SHEET INDEX AND SCHEDULES	NONE
P022A	PLUMBING DEMOLITION PLANS	1/8" = 1'-0"
P102A	FIRST & SECOND PLUMBING FLOOR PLANS - DISPATCH, IT, INVESTIGATION	1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT APPROVAL.
- RELOCATE EXISTING FIRE SPRINKLER HEADS PER NEW WALL LAYOUT. NEW FIRE SPRINKLER HEADS SHALL MATCH EXISTING.
- ALL PIPING SHALL CONFORM TO NFPA 13.
- PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERERS TO ALL LOCAL CODES, BUILDING OWNER INSURANCE CARRIER, AND NFPA REQUIREMENTS.
- PROVIDE HYDRAULIC CALCULATION ALONG WITH SHOP DRAWINGS FOR ARCHITECT/ENGINEER/OWNER/CODE APPROVAL.
- IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO CALCULATE, DESIGN AND INSTALL THE FIRE PROTECTION SYSTEM(S) CALLED FOR, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT, DRAINS, SPRINKLERS, ETC. AS MAYBE REQUIRED FOR A COMPLETE, APPROVED AND OPERATIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING MOUNTING HEIGHTS AND LOCATION OF CEILING MOUNTED EQUIPMENT.
- COORDINATE LOCATIONS OF ALL SPRINKLER WITH CEILING SYSTEMS AND ALL CEILING MOUNTED EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE BUILDING CODE.
- CONNECTIONS TO, AND SHUTDOWNS OF EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER AND LOCAL FIRE DEPARTMENT. SCHEDULE WORK TO MINIMIZE INTERFERENCE WITH OWNERS OPERATIONS AND DOWNTIME OF EXISTING SYSTEM.
- OFFSET PIPING AS MAYBE REQUIRED TO CLEAR EXISTING STRUCTURAL ELEMENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDE OFFSETS IN HYDRAULIC CALCULATION DATA.
- FINAL LOCATIONS OF ALL FIRE SPRINKLER SHALL BE APPROVED BY THE ARCHITECT.
- SPRINKLER INSTALLED IN FINISHED CEILING SYSTEMS SHALL BE CENTERED WITHIN CEILING TILES OR AT QUARTER POINTS ALONG THE LONGITUDINAL AXIS OF 2'x4' CEILING TILES.

PLUMBING DEMOLITION GENERAL NOTES

- COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
- EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
- ALL PLUMBING ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE PLUMBING CONTRACTOR.
- ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
- THE REMOVAL OR INSTALLATION OF FIXTURES, PIPES AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE PLUMBING CONTRACTOR AND GENERAL CONTRACTOR SHALL BE COORDINATE AND RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE CONTRACTOR SHALL REVIEW THE PLUMBING DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
- THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.

PLUMBING GENERAL NOTES

- FIELD VERIFY EXACT LOCATION OF ALL CONNECTION PRIOR TO CONSTRUCTION.
- ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
- CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
- PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
- REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
- REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
- OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
- PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
- PROTECT ALL EXISTING EQUIPMENT INDICATED AS REMAINING IN PLACE OR BEING RELOCATED. REPLACE DAMAGED EQUIPMENT IMMEDIATELY WITH EXACT DUPLICATE AT NO ADDITIONAL COST TO THE OWNER.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND PROTECTING ALL EXISTING PIPING AND UTILITIES FOR THE DURATION OF THE WORK. ANY DAMAGE CAUSED TO EXISTING PIPING OR UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.

SPECIFICATION (PLUMBING)

- PIPING:
- WASTE AND VENT PIPING BELOW FLOOR SHALL BE SCHEDULE 40 PVC (SOLID CORE) AND ABOVE FLOOR SHALL BE CAST-IRON NO-HUB PIPING AND FITTINGS.
 - WATER PIPING AND CONDENSATE PIPING SHALL BE TYPE "L" COPPER, SOLDERED FITTINGS WITH LEAD FREE SOLDER AND FLUX.
- INSULATION:
- WATER PIPING INSULATION SHALL BE 1" THICK & EQUAL TO 21 TO 28 BTU-inh; FT²/°F CONDUCTIVITY.
- VALVES:
- BALL VALVES SHALL BE NSF 61 RATED AND EQUAL TO APOLLO #77CLF-100200.



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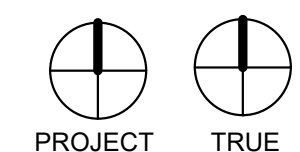


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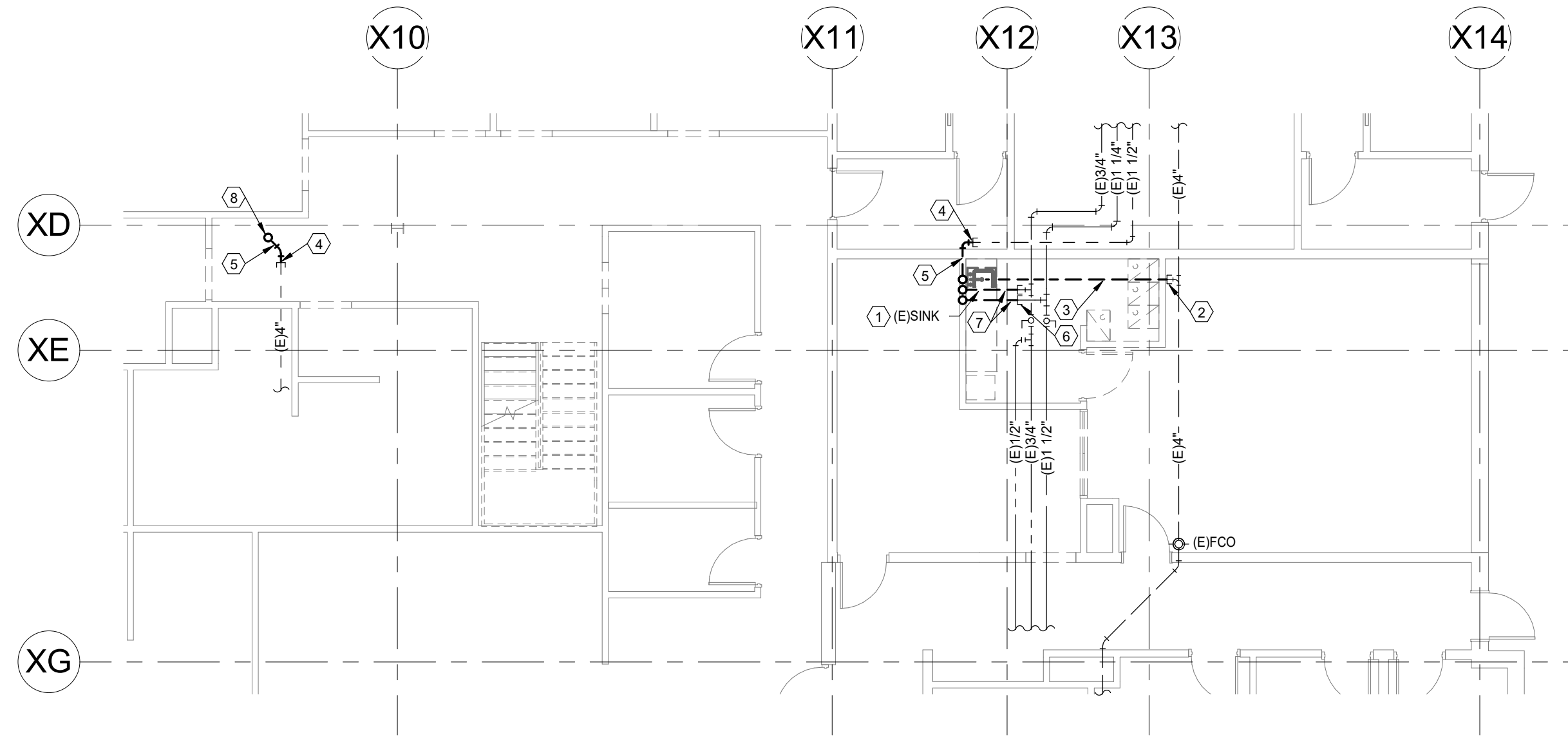
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 PLUMBING COVER SHEET - LEGEND,
 GENERAL NOTES, SPECIFICATION,
 SHEET INDEX AND SCHEDULES



P000A

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FIRST FLOOR PLUMBING DEMOLITION PLAN

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

PLUMBING DEMOLITION KEYNOTES:

- ① REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING.
- ② CAP EXISTING WASTE PIPING BELOW FLOOR.
- ③ REMOVE EXISTING WASTE PIPING BELOW FLOOR.
- ④ CAP EXISTING VENT PIPING ABOVE CEILING.
- ⑤ REMOVE EXISTING VENT PIPING ABOVE CEILING.
- ⑥ CAP EXISTING WATER PIPING ABOVE CEILING.
- ⑦ REMOVE EXISTING WATER PIPING ABOVE CEILING.
- ⑧ REMOVE EXISTING VENT RISE. VERIFY EXACT LOCATION IN FIELD.



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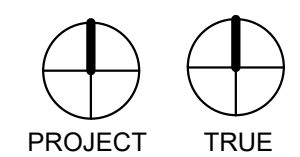
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PLUMBING DEMOLITION PLANS



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