

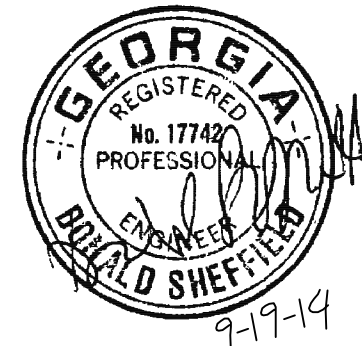
PLUMBING NOTES	
1.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
2.	PLUMBING PIPING SHALL NOT BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM.
3.	DOMESTIC WATER SERVICE ENTRY PIPING BELOW GRADE AND BELOW SLAB UPSTREAM OF THE SERVICE ENTRY VALVE SHALL BE CLASS 51 DUCTILE IRON PIPING WITH BITUMINOUS COATING OUTSIDE AND CEMENT MORTAR LINING INSIDE WITH MECHANICAL PUSH-ON JOINTS AND FITTINGS OF TYPE L COPPER TUBING.
4.	HOT AND COLD WATER PIPING DOWN STREAM OF THE SERVICE ENTRY VALVE SHALL BE CPVC SCHEDULE 40 WITH SOLVENT WELD JOINTS AND CPVC FITTINGS (SUITABLE FOR WORKING PRESSURES OF 100 PSIG AT 180 DEGREES F.)
5.	DOMESTIC WATER SHUT-OFF VALVES SHALL BE TWO-PIECE, FULL-PORT, BRONZE BODY, BRASS BALL TYPE FOR SIZES 2" AND SMALLER. VALVES 2-1/2" AND LARGER SHALL BE BUTTERFLY VALVES, LUG-PATTERN, DUCTILE IRON BODY, AND ALUMINUM-BRONZE DISC. PROVIDE 10-POSITION LEVER HANDLE FOR VALVES 2-1/2" TO 6", AND GEAR-OPERATED TYPE FOR 8" AND LARGER.
6.	SANITARY WASTE & VENT, AND STORM DRAIN PIPING BELOW GROUND SHALL BE SCHEDULE 40 DWV PVC WITH SOLVENT WELD JOINTS WHERE ACCEPTABLE BY LOCAL AUTHORITY HAVING JURISDICTION. WHERE PVC DRAINAGE PIPING IS NOT ACCEPTABLE, PIPE SHALL BE HUB & SPOUT CAST-IRON WITH PUSH-ON JOINTS.
7.	SANITARY WASTE & VENT, AND STORM DRAIN PIPING ABOVE GROUND SHALL SCHEDULE 40 DWV PVC WITH SOLVENT WELD JOINTS WHERE ACCEPTABLE BY LOCAL AUTHORITY HAVING JURISDICTION. WHERE PVC DRAINAGE PIPING IS NOT ACCEPTABLE, PIPE SHALL BE NO-HUB CAST-IRON WITH NEOPRENE BANDED JOINTS WITH STAINLESS STEEL CLAMPS. PROVIDE HEAVY-DUTY CLAMPS AT BASE OF STACKS AND AT VERTICAL TO HORIZONTAL OFFSETS ON ALL SANITARY, WASTE, AND STORM DRAINAGE SYSTEMS. PVC PIPING SHALL NOT BE LOCATED IN RETURN AIR PLENUM SPACES.
8.	ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
9.	ALL CONDENSATE DRAINAGE, SANITARY, RAINWATER, AND WATER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10.	ALL PLUMBING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11.	ALL WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND SHALL BE ROUTED WITHIN CONDITIONED AREAS TO PREVENT FREEZING. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION, AND HEATED SIDE (INSIDE) OF WALL INSULATION.
12.	ALL P-TRAPS, CONDENSATE DRAINAGE PIPING, DOMESTIC WATER PIPING, RAINWATER PIPING, AND SANITARY PIPING INSTALLED IN AREAS SUBJECT TO FREEZING SHALL BE HEAT TRACED AND INSULATED.
13.	ALL PIPING PENETRATING CEILINGS AND WALLS BELOW CEILINGS SHALL BE INSTALLED WITH CHROMIUM-PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY HAVING JURISDICTION.
14.	PROVIDE MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
15.	ALL PLUMBING PIPING, EQUIPMENT, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
16.	ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
17.	PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND VENT STACKS.
18.	ALL SHOWER HEAD ARMS SHALL BE SECURED TO ADJACENT STRUCTURE.
19.	TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
20.	ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED TO MAINTAIN THEIR RATING. FIRE STOP PRODUCTS SHALL BE AS THOSE MANUFACTURED BY HILTI, 3M, OR APPROVED EQUAL.
21.	TRAP PRIMERS SHALL BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS THAT DO NOT RECEIVE A CONTINUOUS DISCHARGE. TYPE "L" LAVATORY WASTE TRAP PRIMERS SHALL BE PROVIDED ON DRAINS IN PUBLIC RESTROOMS AND OTHER AREAS WITH DRAINS ADJACENT TO LAVATORIES. TYPE "A" TRAP PRIMERS SHALL BE PROVIDED IN ALL OTHER REQUIRED LOCATIONS.
22.	PROVIDE WATER HAMMER ARRESTORS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES, PRV STATIONS, AND ALL OTHER LOCATIONS WITH QUICK-CLOSING VALVES.
23.	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS AT ALL DOMESTIC WATER CONNECTIONS TO MECHANICAL EQUIPMENT, POOL AND IRRIGATION CONNECTIONS, KITCHEN, LAUNDRY AND VENDING EQUIPMENT CONNECTIONS.
24.	ALL WATER HEATERS SHALL BE INSTALLED WITH DRAIN PANS UNDER HEATERS.
25.	ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
26.	SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PLUMBING EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED ON THE DRAWINGS; PLUMBING FIXTURES AND TRIM; WATER HEATERS AND ACCESSORIES; PIPE, VALVES, AND FITTINGS; SANITARY AND WATER RISER DIAGRAMS; INSULATION.
27.	CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES, INCLUDING ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
28.	REFER TO ALL CONSULTANT'S DOCUMENTS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITY SUPPLIES, DRAINS, FLOOR DRAINS, FLOOR SINKS, ETC.
29.	ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
30.	ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH ELECTRICAL DRAWINGS.
31.	NATURAL GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS FOR 2-1/2" AND LARGER, AND SCREWED JOINTS FOR 2" AND SMALLER, EXCEPT FOR GAS PIPING IN HVAC PLENUM SPACES. ALL NATURAL GAS PIPING IN HVAC PLENUM SPACES SHALL BE WELDED JOINTS. NATURAL GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS FOR 2-1/2" AND LARGER, AND SCREWED JOINTS FOR 2" AND SMALLER, AND SHALL BE COATED WITH BITUMASTIC AND WRAPPED WITH KRAFT PAPER.
32.	(CONTRACTORS OPTION) NATURAL GAS PIPING ABOVE GRADE: CORRUGATED STAINLESS STEEL TUBING (CSST) WITH ENERGY DISSSIPATING POLYETHYLENE JACKET CONFORMING TO ASTM-A240, BRASS FLARE TYPE FITTINGS, ASTM B16, 5 PSI MAXIMUM SYSTEM PRESSURE. POLYETHYLENE JACKET SHALL NOT EXCEED 25/50 FLAME/SMOKE SPREAD RATING. TRACPIPE COUNTERSTRIKE CSST SYSTEM ONLY.
33.	ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER.
34.	ALL SOVENT FITINGS SHALL BE MANUFACTURED BY CONINE AND BE CAST IRON. ALL STACKS SHALL BE CAST IRON. ALL BRANCH PIPING MAY BE SCHEDULE 40 SOLID WALL PVC. PVC SHALL BE PERMITTED FOR USE FOR ALL PIPING WITH WRITTEN PERMISSION FROM THE OWNER.

FIRE PROTECTION NOTES	
1.	THE FIRE PROTECTION SYSTEM(S) FOR THE APARTMENT UNITS SHALL MEET ALL REQUIREMENTS FOR AN N.F.P.A. #13 SPRINKLER SYSTEM.
2.	ALL FIRE PROTECTION WORK SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF NFPA STANDARDS AND SHALL MEET THE APPROVAL OF THE OWNER'S INSURANCE UNDERWRITER, AND IRI.
3.	SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: SPRINKLER DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER OR EQUIVALENT CONTRACTOR'S FIRE SPRINKLER CERTIFICATE SEAL AND APPROVAL STAMP OF LOCAL CODE AUTHORITY; SPRINKLER PIPING; SPRINKLER HEADS; AND ACCESSORIES. SHOP DRAWINGS SHALL BE SUBMITTED TO STATE FIRE MARSHAL'S OFFICE FOR APPROVAL PRIOR TO BEING SUBMITTED TO THE ENGINEER.
4.	CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
5.	ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6.	ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER.
7.	ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS. PIPE HANGERS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13R.
8.	ALL SPRINKLER SYSTEMS SHALL BE DESIGNED TO THE AVAILABLE CITY WATER SUPPLY. CONTRACTOR SHALL HAVE A CURRENT FLOW TEST PERFORMED PRIOR TO DESIGN.
9.	ALL SPRINKLER SYSTEM RISERS SHALL INCLUDE AN ALARM-CHECK VALVE, WATER MOTOR GONG, FLOW SWITCH, ETC.
10.	HYDRAULIC CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR INSIDE AND OUTSIDE HOSE STREAMS.
11.	ALL MAJOR VALVES SHALL HAVE U.L. LISTED SUPERVISORY SWITCHES COMPATIBLE WITH THE OWNER'S CENTRAL ALARM SYSTEM. WIRING OF THE SWITCHES SHALL BE BY OTHERS.
12.	GROOVED (VICTALIC) COUPLINGS SHALL NOT BE USED OVER OR NEAR ELECTRICAL SWITCHGEAR, PANELS, TRANSFORMERS, ETC.
13.	SPRINKLER PIPING IN ATTICS SHALL BE LOCATED ON HEATED SIDE OF INSULATION AND SHALL BE INSULATED AS COLD WATER PIPING.
14.	ALL WET-PIPE FIRE PROTECTION PIPING INSTALLED IN AREAS SUBJECT TO FREEZING SHALL BE HEAT TRACED AND INSULATED IN COMPLIANCE WITH NFPA 13.16.16.4.1.3 REQUIREMENTS.
15.	ALL SPRINKLER PIPING SHALL BE ROUTED TO MAINTAIN MINIMUM CLEAR HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.
16.	CONTRACTOR SHALL PROVIDE THE OWNER A MINIMUM OF 3 SPARE SPRINKLER HEADS OF EACH TYPE, TEMPERATURE RATING AND ORIFICE SIZE USED IN THE SYSTEM. CONTRACTOR SHALL ALSO PROVIDE SPARE SPRINKLER HEAD STORAGE BOX AND THE APPROPRIATE WRENCHES FOR THE REMOVAL AND INSTALLATION OF EACH TYPE OF SPRINKLER HEAD.

DRAINAGE PRODUCTS/SPECIALTIES	
UNLESS OTHERWISE INDICATED NUMBERS ARE JAY R. SMITH. EQUAL PRODUCTS: JOSAM, PRECISION PLUMBING PRODUCTS, WADE, WATTS AND ZURN.	
CO-EXPOSED CLEANOUT - UNFINISHED AREAS: JAY R. SMITH FIG. 4420 CAST BRONZE COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.	
WCO-WALL CLEANOUT - FINISHED AREAS: JAY R. SMITH FIG. 4436 CAST IRON FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE, NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.	
FCO-CONCRETE FLOORS: JAY R. SMITH FIG. 4220 CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREW, AND SPEEDI-SET OUTLET CONNECTION.	
FCO-TILE FLOORS: JAY R. SMITH FIG. 4151 CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW, AND SPEEDI-SET OUTLET CONNECTION.	
FCO-CARPETED FLOORS: JAY R. SMITH FIG. 4020-Y CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREW, AND SPEEDI-SET OUTLET CONNECTION.	
YCO-EXTERIOR PAVED/CONCRETE AREAS: JAY R. SMITH FIG. 4261-U CAST IRON FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, AND VANDAL-PROOF SCREWS IN COVER.	
YCO-EXTERIOR UNSURFACED AREAS: JAY R. SMITH FIG. 4261-U CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, AND VANDAL-PROOF SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE.	
FD "G" - FLOOR DRAINS-GENERAL/RESTROOMS: JAY R. SMITH FIG. 2005 SERIES CAST IRON FLOOR DRAIN WITH 6" DIAMETER ROUND NICKEL BRONZE STRAINER, SPEEDI-SET OUTLET CONNECTION AND TRAP PRIMER CONNECTION. (OMIT TRAP PRIMER CONNECTION ON SHOWER DRAINS.)	
FD "M" -FLOOR DRAINS-GENERAL PURPOSE/MECHANICAL ROOM: JAY R. SMITH FIG. 3715 SERIES CAST IRON 12" DIAMETER DRAIN WITH SEDIMENT BUCKET, CAST IRON GRATE WITH INTEGRAL 4" FUNNEL, AND SPEEDI-SET OUTLET CONNECTION.	
LAVATORY-WALL HUNG SUPPORT: JAY R. SMITH #700 FOR MASONRY WALLS AND #700-M31 FOR METAL STUD WALLS.	
TP-"A"-AUTOMATIC TRAP PRIMER: PPP PRIME-RITE SERIES AUTOMATIC TRAP PRIMER WITH MULTIPLE OUTLET DISTRIBUTION UNITS AS REQUIRED.	
TP-"L"-TRAP PRIMER: JAY R. SMITH FIG. 2698 WATER SAVER TRAP PRIMER WITH 1-1/4" INLET AND OUTLET, 17 GAUGE SATIN CHROME-PLATED P-TRAP.	
WATER HAMMER ARRESTORS: P.P.P. SC SERIES ALL STAINLESS STEEL WATER HAMMER ARRESTORS. INSTALL IN AN UPRIGHT POSITION AT ALL FLUSH VALVES, WASHING MACHINE SUPPLIES, DISHWASHERS, PRV STATIONS, AND OTHER QUICK CLOSING VALVES, SOLENOIDS AND PLUMBING FIXTURES. LOCATE AND SIZE AS INDICATED ON DRAWINGS. WHERE NOT SHOWN ON DRAWINGS, LOCATE AND SIZE IN ACCORDANCE WITH PDI STANDARD WH-201.	
FD "PD" - PARKING DECK DRAIN: JAY R. SMITH FIG. 2142-M CAST IRON FLOOR DRAIN WITH 11 1/2" DUCTILE IRON GRATE AND SEDIMENT BUCKET.	
FD "TD" - TRENCH DRAINS AT PARKING DECK, ZURN FLOW-THRU SYSTEM: ZURN FLOW-THRU SYSTEM, Z-806 SERIES, 6" WIDE, 4" OUTLETS, Z-812-HPD DUCTILE IRON HEEL PROOF GRATE.	

PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	A/C	ABOVE CEILING
	AD	AREA DRAIN
	A/F	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	B/C	BELOW COUNTER
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
—CD—	CD	CONDENSATE DRAIN
—CV—	CV	CHECK VALVE
—CW—	CW	COLD WATER PIPING
—CWW—	CWW	COMBINATION WASTE & VENT
—DN—	DN	PIPING TURNING DOWN
—DR—	DR	EMERGENCY ROOF DRAIN
—EHL—	EHL	EMERGENCY RAIN LEADER
—FCO—	FCO	FLOOR CLEANOUT
—FD—	FD	FLOOR DRAIN
—FS—	FS	FLOOR SINK
—G—	G	GAS PIPING - LOW PRESSURE
—GW—	GW	GREASE WASTE PIPING
—MG—	MG	GAS PIPING - MEDIUM PRESSURE
—GV—	GV	GATE/BALL VALVE
—HB/NHB—	HB/NHB	HOSE BIBB/NON-FREEZE HOSE BIBB
—H.C.—	H.C.	HANDICAPPED
—HD—	HD	HUB DRAIN
—HT—	HT	HEAT TRACED PIPING
—HW—	HW	HOT WATER PIPING
—HWR—	HWR	HOT WATER RETURN PIPING
—O/H—	O/H	OVER HEAD
—POC—	POC	POINT OF CONNECTION NEW TO EXISTING
—PD—	PD	PUMPED DISCHARGE
—P—	P	P-TRAP
—PRV—	PRV	PRESSURE REDUCING VALVE
—RD—	RD	ROOF DRAIN
—RBPB—	RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
—S.W.—	S.W	SOIL, WASTE PIPING (ABOVE GROUND)
—S.W.—	S.W	SOIL, WASTE PIPING (BELOW GROUND)
—SA—	SA	SHOCK ABSORBER
—ST—	ST	STORM DRAINAGE PIPING
—TP—	TP	TRAP PRIMER
—UNION—	UNION	UNION
—UP—	UP	PIPING TURNING UP
—V—	V	VENT PIPING
—VTR—	VTR	VENT THRU ROOF
—WCO—	WCO	WALL CLEANOUT
—WH/NFWH—	WH/NFWH	WALL HYDRANT/NON-FREEZE WALL HYDRANT
—YCO—	YCO	YARD CLEANOUT

FIRE PROTECTION LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
—DL—	DL	DELUGE SPRINKLER SYSTEM
—DP—	DP	DRY PIPE SPRINKLER SYSTEM
—EB—	EB	ELECTRIC BELL
—ESFR—	ESFR	EARLY SUPPRESSION, FAST RESPONSE
—FDV—	FDV	FIRE DEPARTMENT HOSE VALVE, PLAN/RISER
—FDCF—	FDCF	FIRE DEPARTMENT SIAMESE CONNECTION, FREE STANDING
—FDCW—	FDCW	FIRE DEPARTMENT SIAMESE CONNECTION, WALL MOUNTED
—FDCR—	FDCR	FIRE DEPARTMENT SIAMESE CONNECTION, RECESS MOUNTED
—F—	F	FIRE PROTECTION SUPPLY PIPING
—THF—	THF	FIRE PUMP TEST HEADER, FREE STANDING
—THW—	THW	FIRE PUMP TEST HEADER, WALL MOUNTED
—THR—	THR	FIRE PUMP TEST HEADER, RECESS MOUNTED
—FSP—	FSP	FIRE STANDPIPE W/2-1/2" FIRE DEPARTMENT HOSE VALVE
—FVC—	FVC	FIRE DEPARTMENT HOSE VALVE CABINET
—FCV—	FCV	FLOOR CONTROL VALVE ASSEMBLY, SPRINKLER SYSTEM
—POC—	POC	POINT OF CONNECTION TO EXISTING
—PA—	PA	PRE-ACTION SPRINKLER SYSTEM
—PG—	PG	PRESSURE GAUGE
—PMP—	PMP	PUMP
—SP—	SP	SPRINKLER SYSTEM PIPING
—ESFR—	ESFR	SPRINKLER, EARLY SUPPRESSION FAST RESPONSE
—SSP—	SSP	SPRINKLER, PENDENT
—SSPD—	SSPD	SPRINKLER, PENDENT ON DROP
—SSPC—	SSPC	SPRINKLER, PENDENT, CONCEALED
—SW—	SW	SPRINKLER, HORIZONTAL SIDEWALL
—SWE—	SWE	SPRINKLER, EXTENDED COVERAGE HORIZONTAL SIDEWALL
—SSU—	SSU	SPRINKLER, UPRIGHT
—SSUS—	SSUS	SPRINKLER, UPRIGHT ON 1" SPRIG-UP
—ACV—	ACV	VALVE/RISER, ALARM CHECK
—DPV—	DPV	VALVE/RISER, DRY PIPE SPRINKLER
—DLV—	DLV	VALVE/RISER, DELUGE SPRINKLER
—PAW—	PAW	VALVE/RISER, PRE-ACTION SPRINKLER
—AV—	AV	VALVE, ANGLED, PLAN/RISER
—GV—	GV	VALVE, GENERAL, OS&Y GATE OR BUTTERFLY
—OSY—	OSY	VALVE, OS&Y GATE, IN-LINE/VERTICAL
—BVV—	BVV	VALVE, BUTTERFLY, PLAN/VERTICAL
—CV—	CV	VALVE, CHECK
—BFP—	BFP	VALVE, DOUBLE CHECK BACKFLOW PREVENTER
—TSW—	TSW	VALVE SUPERVISORY SWITCH
—FSV—	FSV	WATER FLOW SWITCH, VANE TYPE
—FSP—	FSP	WATER FLOW SWITCH, PRESSURE TYPE
—ASP—	ASP	AIR PRESSURE SWITCH, HIGH AND LOW ALARM
—DC—	DC	DRY CONTACT FOR FIREPUMP OR OTHER CONTROLLER
—WMG—	WMG	WATER MOTOR GONG
—WP—	WP	WET PIPE SPRINKLER SYSTEM
—PIPE UP, TEE DOWN, ELBOW DOWN—		PIPE UP, TEE DOWN, ELBOW DOWN



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BROOKWOOD SQUARE
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ATLANTA, GEORGIA

PLUMBING
NOTES AND
LEGENDS

PO.01

03/18/2014

ASBUILT

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FIRE PROTECTION SCHEDULE							
AREA	OCCUPANCIES HAZARD	DENSITY GPM/FT	APPLICATION AREA SQ/FT	HEAD TYPE/ TEMP RATING °F	SYSTEM TYPE	HEAD FINISH	REMARKS
APARTMENTS	LIGHT	.10	1500	PENIENT 165°	WET	WHITE	NOTE 1
<u>NOTE:</u> 1. CRITERIA ESTABLISHED PER NFPA 13.							

FLOW TEST DATA SCHEDULE	
UPON AWARD OF THE CONTRACT, THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A FLOW TEST ON THE TWO HYDRANTS NEAREST THE SITE AND FORWARD THE TEST DATA TO THE ENGINEER AND ARCHITECT THE FOLLOWING WATER PRESSURE/FLOW DATA WAS OBTAINED FROM: CITY OF ATLANTA	
STATIC PRESSURE	148 PSI
RESIDUAL PRESSURE	128 PSI
FLOW (GPM)	1730 GPM
PLAT CARD / HYDRANT	#203 / #9139
LOCATION OF TEST HYDRANT	2140 PEACHTREE ROAD
DATE OF TEST	10-22-2013
TIME OF DAY OF TEST	11:30AM
NOTES: 1. FLOWED 2.5 INCH HYDRANT NOZZLE, MAIN SIZE 16 INCH	

GAS-FIRED WATER HEATER							
MARK	MANUFACTURER & MODEL	STORAGE CAPACITY GALLONS	BTU INPUT	FLUE SIZE	GPH REG 90 DEG RISE	TEMP OF WATER TO BE DEL.	ACCESSORIES
GWH-1	RINNAI RUC801	---	152,000	3/5 CONCENTRIC	—	120°	1,2,3,4,5,6

NOTES:

1. ALL UNITS SHALL MEET ASHRAE 90-75 AND ALL LOCAL CODE REQUIREMENTS, AND SHALL BE AQA CERTIFIED.

ACCESSORIES:

1. PROVIDE EXPANSION TANK WATTS MODEL PLT-5.

2. PROVIDE TAP RELIEF VALVE AND W/OUTLET RELIEF VALVE

3. PROVIDE DIELECTRIC FITTINGS ON WATER INLET & OUTLET CONNECTIONS.

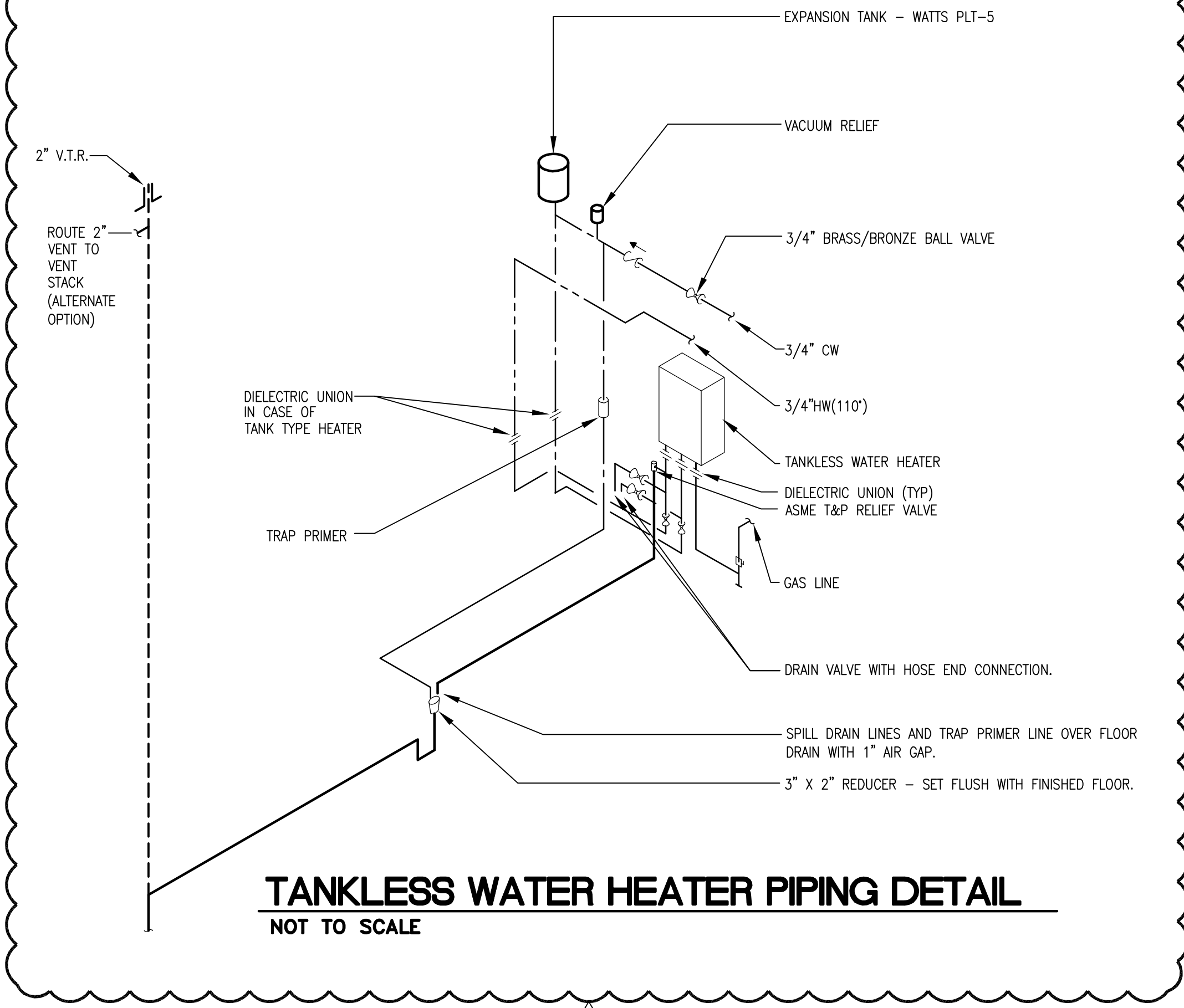
4. PROVIDE BALL VALVES AND UNIONS ON WATER INLET AND OUTLET CONNECTIONS.

5. LOCATE WATER HEATERS AS INDICATED ON PLANS.

6. ROUTE TAP RELIEF TO DRAIN. SEE WATER HEATER DETAIL.

7. SUPPLY AND INSTALL RINNAI RIK-KIT VALVE PACKAGE.

SEE WATER HEATER DETAIL FOR FURTHER INFORMATION.



PLUMBING FIXTURE SPECIFICATIONS

ALSO OTHERWISE INDICATED, NUMBERS ARE CRANE. EQUAL PRODUCTS:
 AMERICAN-STANDARD, ELKER, KOHLER, MANFREDI, TOTO, CHICAGO, DELTA, GERBER, MOEN, SYMONS,
 BRONKHORST, HANLEY-TAYLOR, OASIS, STEEL-WHEELS, KOHM, J.R. SMITH, WAZE, WATTS, ZURN,
 BEMIS, BENKE, CENTOCO, CHROME, DELANY, OLSONITE, SPERZEL.
 COORDINATE ALL FIXTURES WITH D IN DRAWINGS, WHERE THERE IS A DISCREPANCY D IN DRAWINGS
 SHALL BE AUTHORITY. ALL
 ALL FIXTURES TO BE BRUSHED-/SATIN NICKEL FINISH.

WC-1 ELONGATED WATER CLOSET – FLOOR MOUNTED – TANK – SEAT W/COVER:
 MANFIELD AUTO 1.28 GPF, SIPHON ACTION, 2" FULLY GLAZED TRAPWAY, BEMIS 1500 PRO
 INSULATION MOULDED SOLID PLASTIC ELONGATED SEAT W/OFFEN FLOOR LESS COVER. PROVIDE WALL
 NIPPLE AND CHROME-PLATED ESCUTCHEON.

WC-1H 44 ELONGATED WATER CLOSET – FLOOR MOUNTED – TANK – SEAT W/COVER:
 MANFIELD AUTO 1.28 GPF, SIPHON ACTION, 2" FULLY GLAZED TRAPWAY, BEMIS
 1500 PRO INSULATION MOULDED SOLID PLASTIC ELONGATED SEAT W/OFFEN FLOOR LESS COVER.
 PROVIDE WALL NIPPLE AND ESCUTCHEON.

WC-2: ELONGATED WATER CLOSET – FLOOR MOUNTED – FLUSHWAVE.
 AMERICAN STANDARD: 346.511, MAEDRA FLOWISE 16-1/2" HIGH TOP SPUD BOWL AND SELECTON
 FLUSH VALVE. SOLID PLASTIC ELONGATED SEAT W/OFFEN FLOOR LESS COVER.

WC-2H: 44 ELONGATED WATER CLOSET – FLOOR MOUNTED – FLUSHWAVE.
 AMERICAN STANDARD: 346.511, MAEDRA FLOWISE 16-1/2" HIGH TOP SPUD BOWL AND SELECTON
 FLUSH VALVE. SOLID PLASTIC ELONGATED SEAT W/OFFEN FLOOR LESS COVER.

UR-1H: 44 URINAL
 AMERICAN STANDARD: 604.020, DECORUM FLOWISE HIGH EFFICIENCY RINAL WITH TOP SPUD, JAY R.
 SMITH 0637M URINAL SUPPORT WITH BOTTOM SEARING PLATE, PROVIDE WATER HAMMER ARRESTOR.

L-1 LAVATORY – UNDERMOUNT – SINGLE LEVER – POP-UP DRAIN:
 KOHLER STINGSON 442007-U CHINA LAVATORY UNDERMOUNT SINK. CFG CORNERSTONE
 C40710 SINGLE LEVEL FAUCET 1.5 GPM FLOW RATE, POP-UP DRAIN. PROVIDE WALL NIPPLES
 AND ESCUTCHEONS, MCGUIRE 2165 ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12"
 LONG CHROME PLATED FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X
 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE

L-1H 44 LAVATORY – UNDERMOUNT – SINGLE LEVER – POP-UP DRAIN:
 STERLING STINGSON 442007-U CHINA LAVATORIES UNDERMOUNT SINK. CFG CORNERSTONE
 C40710 SINGLE LEVEL FAUCET 1.5 GPM FLOW RATE, POP-UP DRAIN. PROVIDE WALL NIPPLES
 AND ESCUTCHEONS, MCGUIRE 2165 ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12"
 LONG CHROME PLATED FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X
 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE P2W125 INSULATION KIT.

L-2 LAVATORY – UNDERMOUNT:
 KOHLER K-2715 SINK, DYSON ABOB SHORT ABLADE TAP FAUCET, 1.5 GPM FLOW RATE.
 PROVIDE WALL NIPPLES AND ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOPS WITH
 HANDWEELS AND 3/8" O.D. X 12" LONG FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872
 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE
 P2W125 INSULATION KIT.

L-2H 44 LAVATORY – UNDERMOUNT:
 KOHLER K-2715 SINK, DYSON ABOB SHORT ABLADE TAP FAUCET, 1.5 GPM FLOW RATE.
 PROVIDE WALL NIPPLES AND ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOPS WITH
 HANDWEELS AND 3/8" O.D. X 12" LONG FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872
 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE
 P2W125 INSULATION KIT.

L-3H 44 LAVATORY – UNDERMOUNT:
 KOHLER K-2715 SINK, KOHLER K-942-4 STILLNESS WIDESPREAD FAUCET, 1.5 GPM FLOW RATE.
 PROVIDE WALL NIPPLES AND ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOPS WITH
 HANDWEELS AND 3/8" O.D. X 12" LONG FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872
 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE
 P2W125 INSULATION KIT.

KS-1 KITCHEN SINK – TWO COMPARTMENT WITH DISPOSER:
 DARTO 5F-4400 TWO COMPARTMENT, 20 GAUGE STAINLESS STEEL SELF-RIMMING 33" X
 22" X 6-1/2" DEEP, CFG "FLASTONE" 41613 KITCHEN FAUCET W/SPRAY W/ 1.5GPM ACTRATOR,
 PROVIDE CHROME PLATED WALL NIPPLES AND ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED
 ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12" LONG CHROME PLATED FLEXIBLE COPPER
 SUPPLY RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT
 PLUG, AND MCGUIRE 8892 1-1/2" P-TRAP WITH CLEANOUT PLUG.

KS-1H KITCHEN SINK – HANDICAPPED – TWO COMPARTMENT (NO DISPOSER):
 ELKAY LRAD332 34-4 COMPLANT TWO COMPARTMENT, 18 GAUGE STAINLESS STEEL SELF-
 RIMMING SINK, 33" X 22" X 5-1/2" DEEP, CFG "FLASTONE" 41613 KITCHEN FAUCET W/SPRAY
 W/ 1.5 GPM ACTRATOR, PROVIDE CHROME PLATED WALL NIPPLES AND ESCUTCHEONS, MCGUIRE
 2165 CHROME PLATED ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12" LONG CHROME
 PLATED FLEXIBLE COPPER SUPPLY RISERS, (2) MCGUIRE 1514 STRAINER SHOWN 1-1/2" O.D. X
 4" LONG TALPICE, AND MCGUIRE 8892 1-1/2" P-TRAP WITH CLEANOUT PLUG, AND MCGUIRE
 P2W125 INSULATION KIT.

KS-2 KITCHEN SINK – ONE COMPARTMENT:
 JUST USF-1821-A-GR, 21"X18"X5 1/2" STAINLESS STEEL UNDER-MOUNT SINK, KOHLER
 K-649 SIMPLICE PULL-DOWN FAUCET, 1.5 GPM FLOW RATE. PROVIDE WALL NIPPLES AND
 ESCUTCHEONS, MCGUIRE 2165 ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12" LONG
 FLEXIBLE COPPER SUPPLY RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X 1-1/4" WITH CAST
 BRASS NUTS AND CLEANOUT PLUG, AND MCGUIRE P2W125 INSULATION KIT.

KS-3 KITCHEN SINK – ONE COMPARTMENT:
 JUST 5F-4400 TWO COMPARTMENT, 20 GAUGE STAINLESS STEEL SINK, KOHLER K-10413 FORTES
 FAUCET, 1.5 GPM FLOW RATE. PROVIDE WALL NIPPLES AND ESCUTCHEONS, MCGUIRE 2165
 ANGLE STOPS WITH HANDWEELS AND 3/8" O.D. X 12" LONG FLEXIBLE COPPER SUPPLY
 RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT
 PLUG, AND MCGUIRE P2W125 INSULATION KIT.

SH-1 SHOWER – 60"x34":
 (TILE SURROUND BY GEN. CONTRACTOR) MUSTEE MODEL 3460M SHOWER FLOOR WITH SLIP
 RESISTANT BOTTOM, CHROME-PLATED DRAIN STRAINER, MOEN TL182 SHOWER FAUCET, MOEN
 3887 SINGLE FUNCTION HAND SHOWER WITH SLIDE BAR, MOEN A725 CHROME PLATED DROP
 ELL, MOEN 62370 POSI-TEMP PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE.

SH-1H 44 SHOWER – 37"x39":
 (TILE SURROUND BY GEN. CONTRACTOR) MUSTEE MODEL 3739M SHOWER FLOOR WITH SLIP
 RESISTANT BOTTOM, CHROME-PLATED DRAIN STRAINER, MOEN TL182 SHOWER FAUCET, MOEN
 3887 SINGLE FUNCTION HAND SHOWER WITH SLIDE BAR, MOEN A725 CHROME PLATED DROP
 ELL, MOEN 62370 POSI-TEMP PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE. PROVIDE
 BACK AND END WALL GRAB BARS.

SH-2H 44 ROLL-IN SHOWER – HANDICAPPED – 60"x30":
 (TILE SURROUND BY GEN. CONTRACTOR) MUSTEE MODEL 360L(LEFT HAND DRAIN) OR
 360R(RIGHT HAND DRAIN) BARRIER FREE SHOWER FLOOR WITH ENTRY RAMP AND SLIP
 RESISTANT BOTTOM, CHROME-PLATED DRAIN STRAINER, MOEN TL182 SHOWER FAUCET, MOEN
 3887 SINGLE FUNCTION HAND SHOWER WITH SLIDE BAR, MOEN A725 CHROME PLATED DROP
 ELL, MOEN 62370 POSI-TEMP PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE. PROVIDE
 BACK AND END WALL GRAB BARS.

SH-3 SHOWER – 34"x36":
 (TILE SURROUND BY GEN. CONTRACTOR) MUSTEE MODEL 4236M SHOWER FLOOR WITH SLIP
 RESISTANT BOTTOM, CHROME-PLATED DRAIN STRAINER, MOEN TL182 SHOWER FAUCET, MOEN
 3887 SINGLE FUNCTION HAND SHOWER WITH SLIDE BAR, MOEN A725 CHROME PLATED DROP
 ELL, MOEN 62370 POSI-TEMP PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE.


SH-4 SHOWER – 34"x48":
 (TILE SURROUND BY GEN. CONTRACTOR) MUSTEE MODEL 3448M SHOWER FLOOR WITH SLIP
 RESISTANT BOTTOM, CHROME-PLATED DRAIN STRAINER, MOEN TL182 SHOWER FAUCET, MOEN
 3887 SINGLE FUNCTION HAND SHOWER WITH SLIDE BAR, MOEN A725 CHROME PLATED DROP
 ELL, MOEN 62370 POSI-TEMP PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE.

BT-1 BATH TUB WITH SHOWER:
 TENSERLE "ENSEMBLE" 711011(LEFT HAND DRAIN) OR 711012(RIGHT HAND DRAIN), 60" X 36"
 VIRELL BATH TUB WITH SLIP RESISTANT BOTTOM, MOEN TL182 TUB AND SHOWER FAUCET WITH
 PRESSURE-BALANCING ANTI-SCALD SHOWER VALVE, CS&B LIT & TURN WASTE AND OVERFLOW.

L-4 LAVATORY – PEDESTAL – LEVER HANDLES – POP-UP DRAIN:
 STERLING "SABIEL" 442004 SELF-RIMMING 20" X 17" VITREOUS CHINA LAVATORY WITH OVERFLOW,
 PUNCHED ON 4" CENTERS, MOEN 66411 LEVER HANDLE FAUCET WITH AERATOR AND POP-UP DRAIN.
 PROVIDE CHROME PLATED WALL NIPPLES AND ESCUTCHEONS, 3/8" O.D. X 12" LONG CHROME PLATED FLEXIBLE
 COPPER SUPPLY RISERS, MCGUIRE 8872 P-TRAP, 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT
 PLUG, AND MCGUIRE

WB-1 OFFSET DRAIN WASHING MACHINE BOO: WATER TIGHT #82067 W/ 2" CHROME QUARTER
 TURN ADAPTER BALL VALVES, 1/2"CPVC CONNECTION MODEL W/ 4701CP

IM-1 ICE MAKER SUPPLY: #82091 W/ CHROME QUARTER TURN ADAPTER BALL
 VALVE, MODEL W

PLUMBING FIXTURE & CONNECTION SCHEDULE					
FIXTURE #	DESCRIPTION	WASTE CONNECTION	HOT WATER SUPPLY	COLD WATER SUPPLY	NOTES
WC-1	WATER CLOSET -	3"	---	1/2"	1,2
WC-1H	WATER CLOSET - HANDICAPPED ACCESSIBLE	3"	---	1/2"	1,2
WC-2	WATER CLOSET -	4"	---	1"	1,2
WC-2H	WATER CLOSET - HANDICAPPED ACCESSIBLE	4"	---	1"	1,2
UR-1H	ADA URINAL	2"	---	1/2"	---
L-1	UNDERMOUNT LAVATORY	1 1/4"	1/2"	1/2"	1
L-1H	UNDERMOUNT LAVATORY	1 1/4"	1/2"	1/2"	1
L-2	UNDERMOUNT LAVATORY	1 1/4"	1/2"	1/2"	1
L-2H	UNDERMOUNT LAVATORY HANDICAPPED ACCESSIBLE	1 1/4"	1/2"	1/2"	1
L-3H	UNDERMOUNT LAVATORY HANDICAPPED ACCESSIBLE 	1 1/4"	1/2"	1/2"	1
KS-1	KITCHEN SINK - DOUBLE BOWL	1 1/2"	1/2"	1/2"	8,9,10
KS-1H	KITCHEN SINK - DOUBLE BOWL HANDICAPPED ACCESSIBLE	1 1/2"	1/2"	1/2"	8,9,10
KS-2	KITCHEN SINK - SINGLE BOWL HANDICAPPED ACCESSIBLE	1 1/2"	1/2"	1/2"	8,9,10
KS-3	KITCHEN SINK - SINGLE BOWL HANDICAPPED ACCESSIBLE	1 1/2"	1/2"	1/2"	8,9,10
SH-1	SHOWER	2"	1/2"	1/2"	1,7 12
SH-1H	SHOWER HANDICAPPED ACCESSIBLE	2"	1/2"	1/2"	1,7 12
SH-2H	SHOWER HANDICAPPED ACCESSIBLE	2"	1/2"	1/2"	1,7 12
SH-3	SHOWER	2"	1/2"	1/2"	1,7 12
SH-4	SHOWER	2"	1/2"	1/2"	1,7 12
BT-1	BATH TUB	2"	1/2"	1/2"	1,7 12,13
L-4	WALL HUNG LAVATORY	1 1/4"	1/2"	1/2"	1
WB-1	WASHING MACHINE BOX	2"	1/2"	1/2"	---
IM-1	ICE MAKER SUPPLY	---	---	1/2"	---
MS-1	JANITOR'S MOP SINK	3"	1/2"	1/2"	---
EW-1	BI-LEVEL ADA COMPLIANT ELECTRIC WATER COOLER	1 1/2"	---	1/2"	---
NFWH	NON_FREEZE WALL HYDRANT FLOOR MOUNTED - ANTI-SIPHON	---	---	3/4"	---
WH	WALL MOUNTED WALL HYDRANT	---	---	3/4"	---
NFHB	NON_FREEZE HOSE BIBB	---	---	3/4"	---
NFRH	NON_FREEZE ROOF HYDRANT	---	---	3/4"	---

NOTES:

- COLOR OF FIXTURES SHALL BE WHITE AND FINISH OF FAUCETS SHALL BE CHROME PLATED.
- COORDINATE RIGHT-HAND OR LEFT-HAND TRIP LEVER REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- PROVIDE MCQUIRE PFW125 INSULATION KIT.
- COORDINATE RIGHT-HAND OR LEFT-HAND OUTLET REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE RIGHT-HAND OR LEFT-HAND OUTLET REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE RIGHT-HAND OR LEFT-HAND OUTLET REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- PIPE SHALL BE STAINLESS STEEL AND FINISH OF FAUCETS SHALL BE CHROME PLATED.
- PROVIDE Y-CONNECTOR DRAIN FOR DISHWASHER.
- DISPOSAL FURNISHED BY GEN. CONTRACTOR, INSTALLED BY PLUMBING CONTRACTOR.
- PROVIDE 2" FLOOR DRAIN IN SHOWER - JAY R. SMITH NO. 2010 WITH CHROME PLATED STRAINER.
- SHOWER HEAD MOUNTING HEIGHT @ 6'-6".
- ALL TUB VALVES ARE TO BE OFFSET.

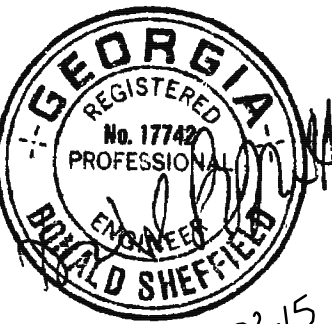
PUMP SCHEDULE							
TAG	SERVICE/ LOCATION	TYPE	FLOW (GPM)	HEAD (PSI)	RPM	MOTOR HP	REMARKS
BP-1 BP-3	DOMESTIC WATER/ WATER ROOM	CENTRIFUGAL VFD	449	54	3500	10/10/10	EACH PUMP RATED AT 150 GPM AT 59 PSI.
FP-1	FIRE PUMP	HORIZONTAL SPLIT CASE	1000	127	3550	100	
JP-1	JOCKEY PUMP	IN-LINE, MULTI-STAGE	12	137	-	3	
SP-1	SANITARY DRAINAGE/ ELEVATOR PIT	AUTOMATIC SUBMERSIBLE	64	22	3600	0.5	STANCOR SE50 SUBMERSIBLE EFFLUENT PUMP, WITH OL-MINDER CONTROL SYSTEM AND 3. PRONG PLUG.
SP-2	SANITARY DRAINAGE	AUTOMATIC SUBMERSIBLE	500	18.2	1750	10	STANCOR LX SERIES 100L SUBMERSIBLE PUMP
RCP-1	RECIRCULATING PUMP	-	-	-	-	-	BY TEAL SYSTEM
RCP-2	RECIRCULATING PUMP	-	-	-	-	-	BY TEAL SYSTEM

WATER HEATER SCHEDULE						
MARK	MODEL	STORAGE CAPACITY GALLONS	KW INPUT	GPH RECOVERY 100° RISE	TEMP OF WATER TO BE DEL.	ACCESSORIES
EWH-1	A.O.SMITH - DEL-30	30	4.5	18	120°	1,2,3,4,5,6,7
EWH-2	CHROMONITE M-20L/208	---	4.16	---	110°	4,5
EWH-3	A.O.SMITH - DEL-50	50	4.5	18	120°	1,2,3,4,5,6,7
EWH-4	CHROMONITE M-40/208	---	8.32	---	110°	4,5
EWH-5	CHROMONITE E-70FLP/208	---	7	---	110°	4,5

ACCESSORIES:

1. PROVIDE EXPANSION TANK SIZED BY THE WATER HEATER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE T&P RELIEF VALVE AND VACUUM RELIEF VALVE.
3. PROVIDE DIELECTRIC FITTINGS ON WATER INLET & OUTLET CONNECTIONS.
4. PROVIDE BALL VALVES AND UNIONS ON WATER INLET AND OUTLET CONNECTIONS.
5. LOCATE WATER HEATERS AS INDICATED ON PLANS.
6. ROUTE DRAIN PAN AND T&P RELIEF TO DRAIN. SEE WATER HEATER DETAIL.
7. PROVIDE THERMAL EXPANSION VALVE AS INDICATED ON DETAIL.

(TEAL SYTEM LOOP 2) HOT WATER BOOSTER HEATER						
MARK	MODEL	STORAGE CAPACITY GALLONS	KW INPUT	GPH RECOVERY 100% RISE	TEMP OF WATER TO BE DEL.	LOCATION
EWH-6	COATES - LS2036	-	36	148	120°	ROOM: WATER HEATER 619

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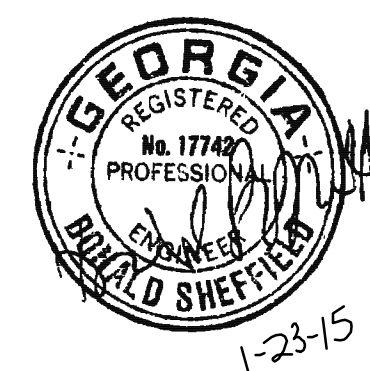
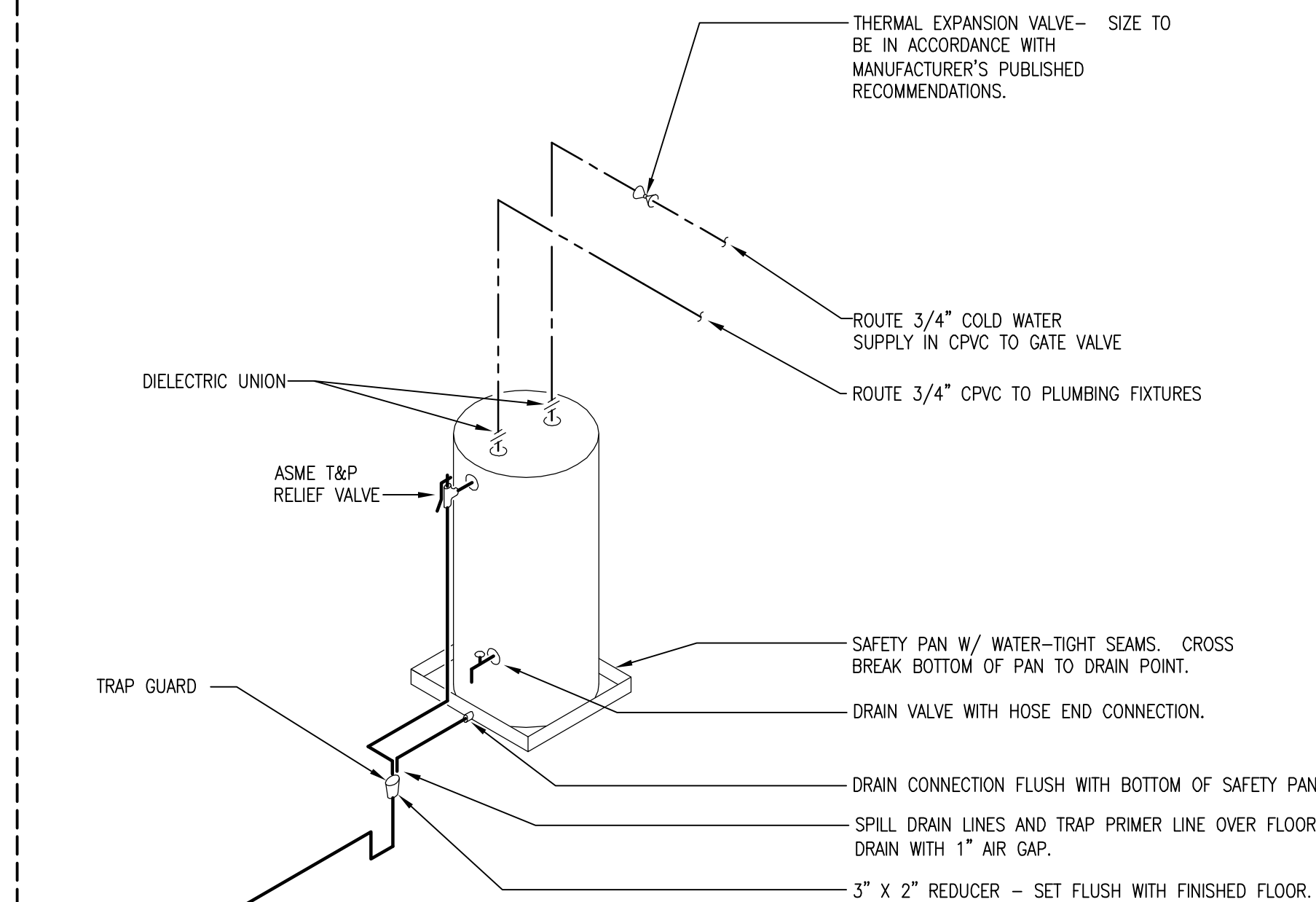
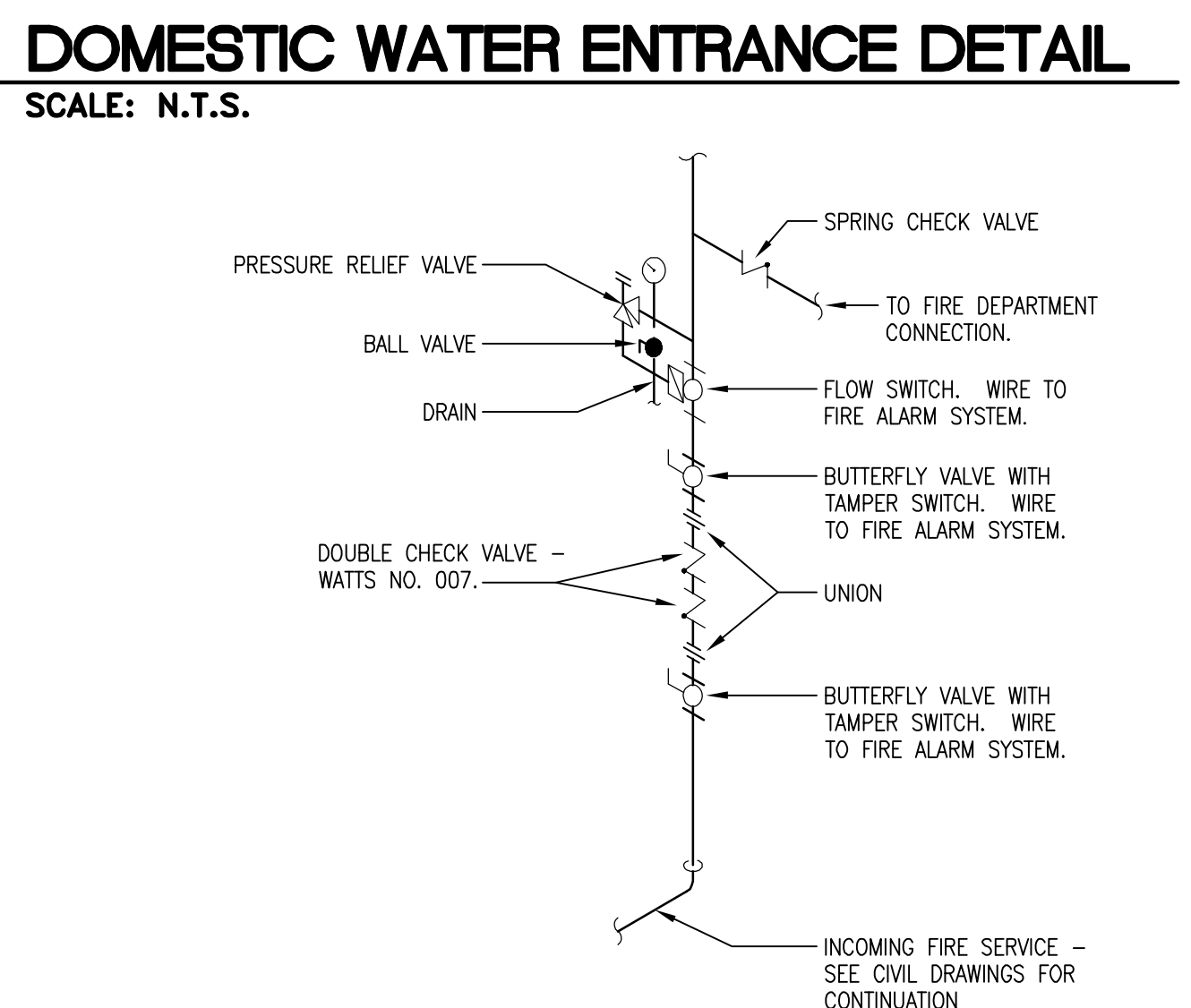
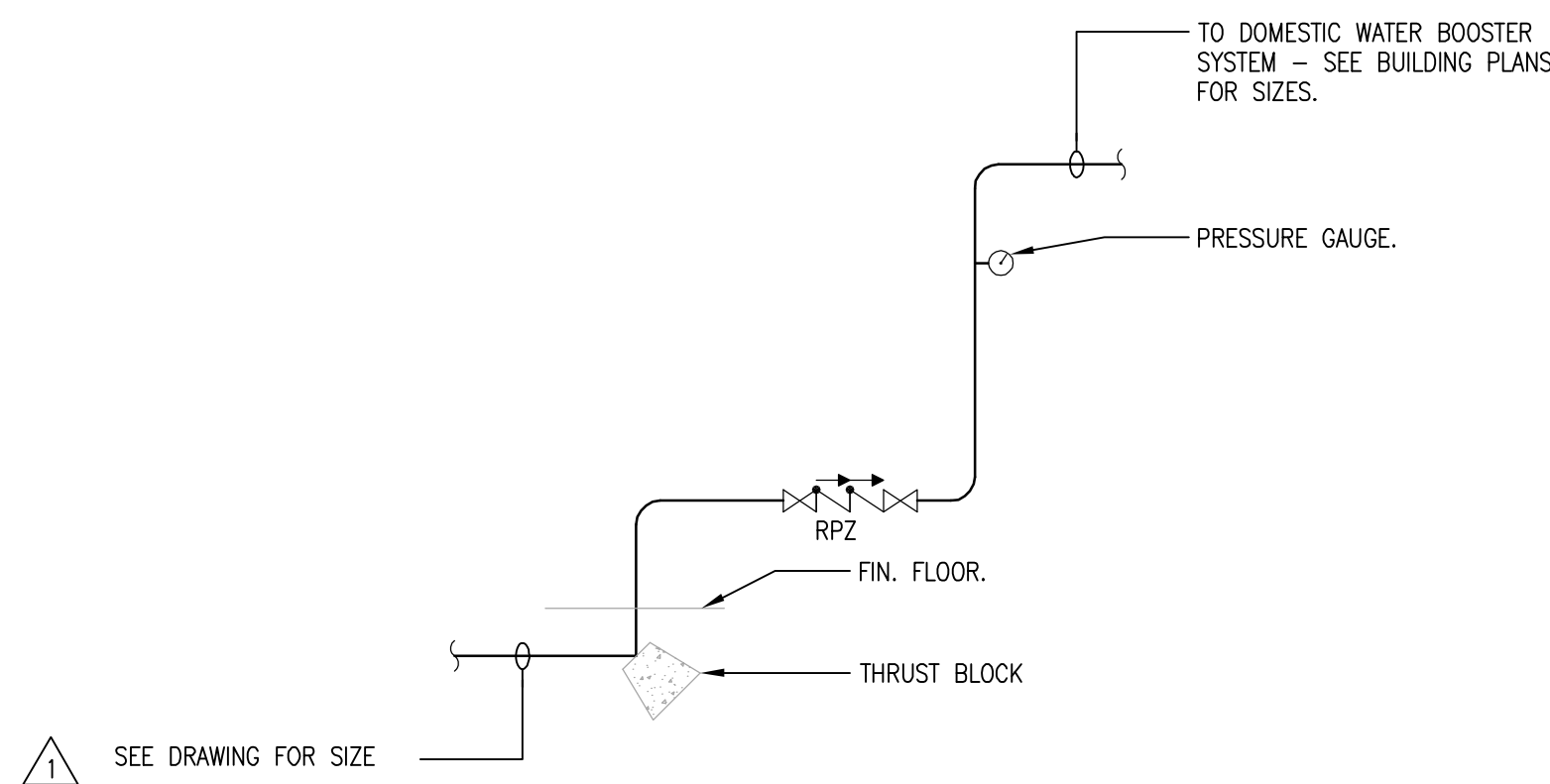
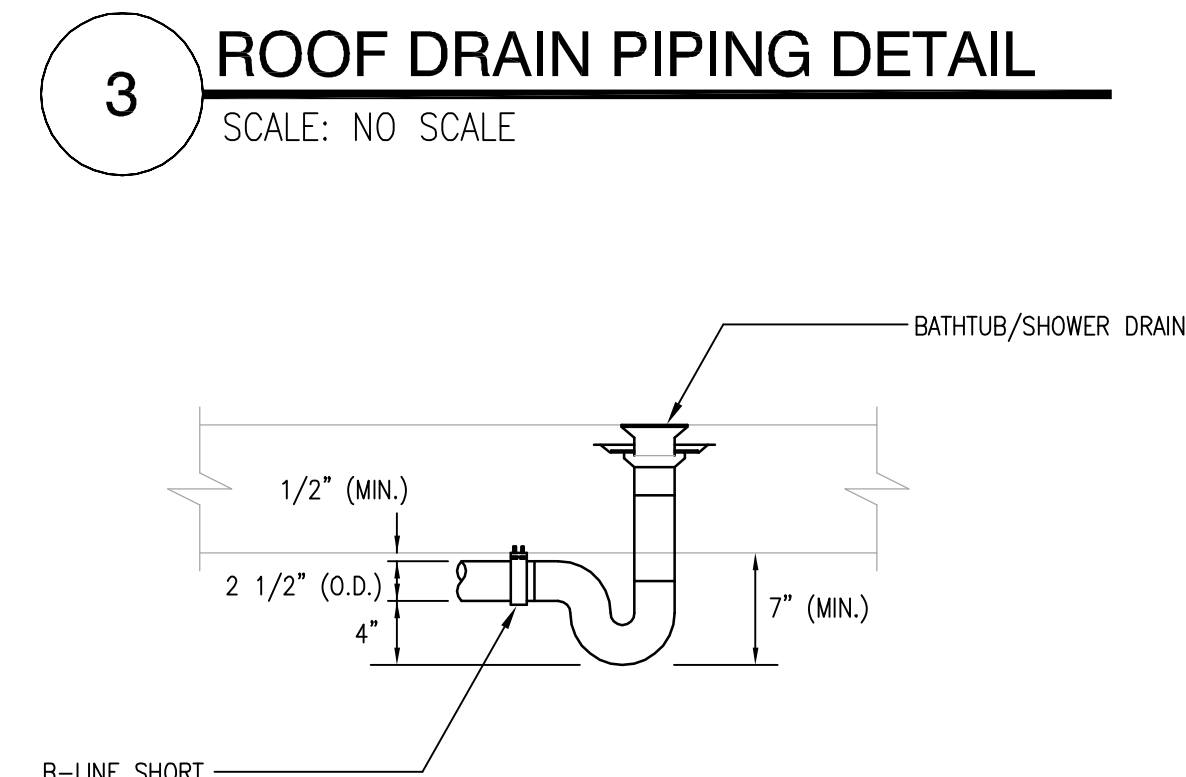
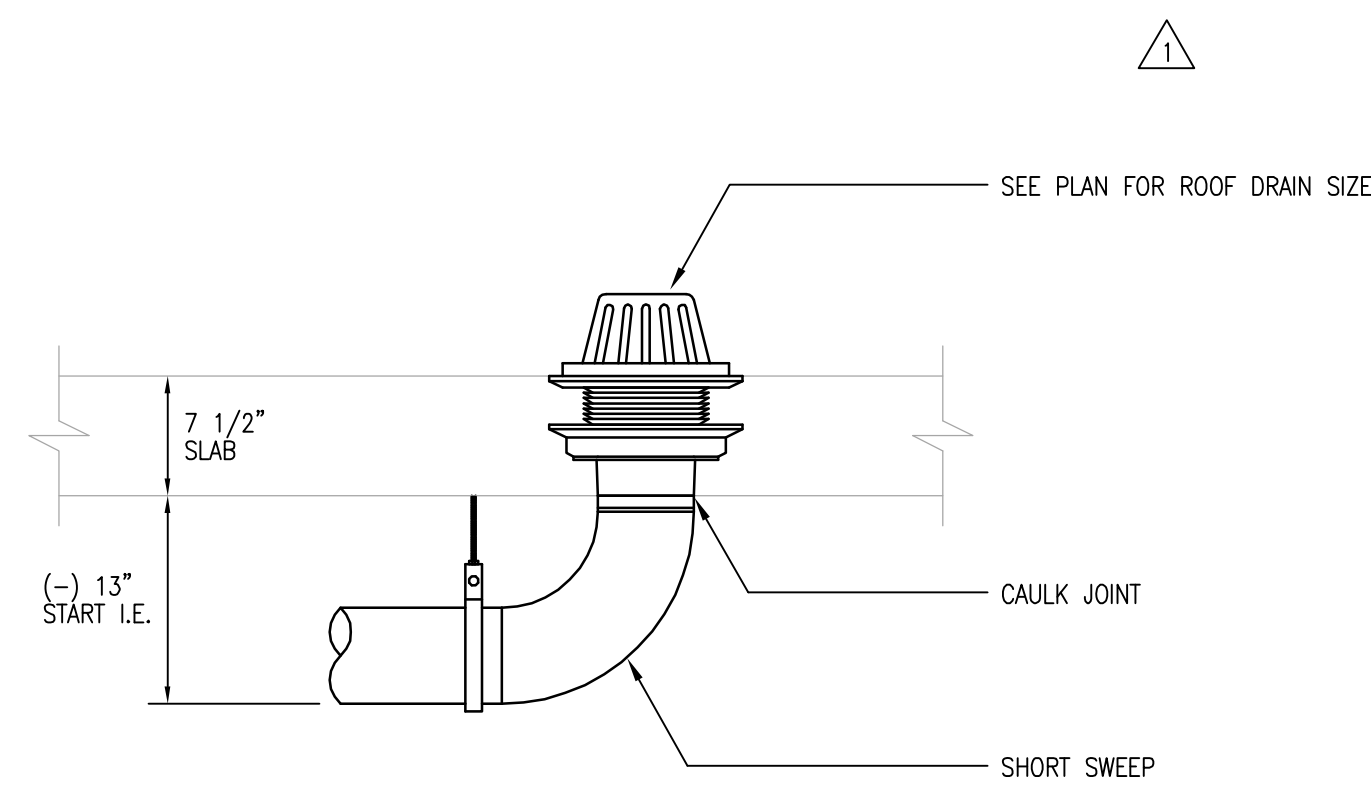
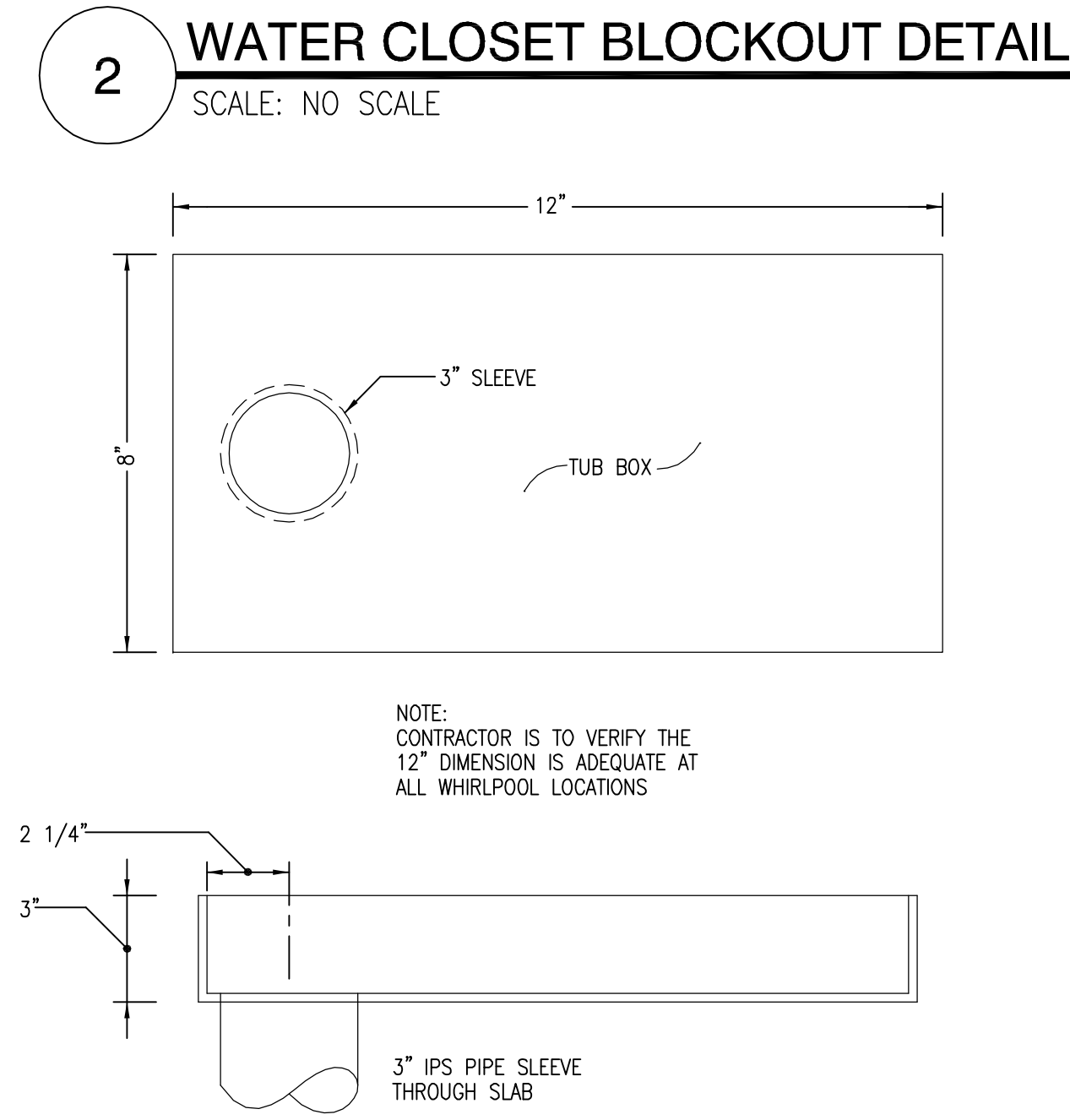
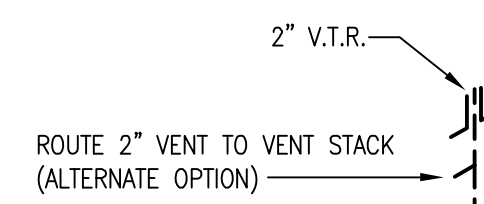
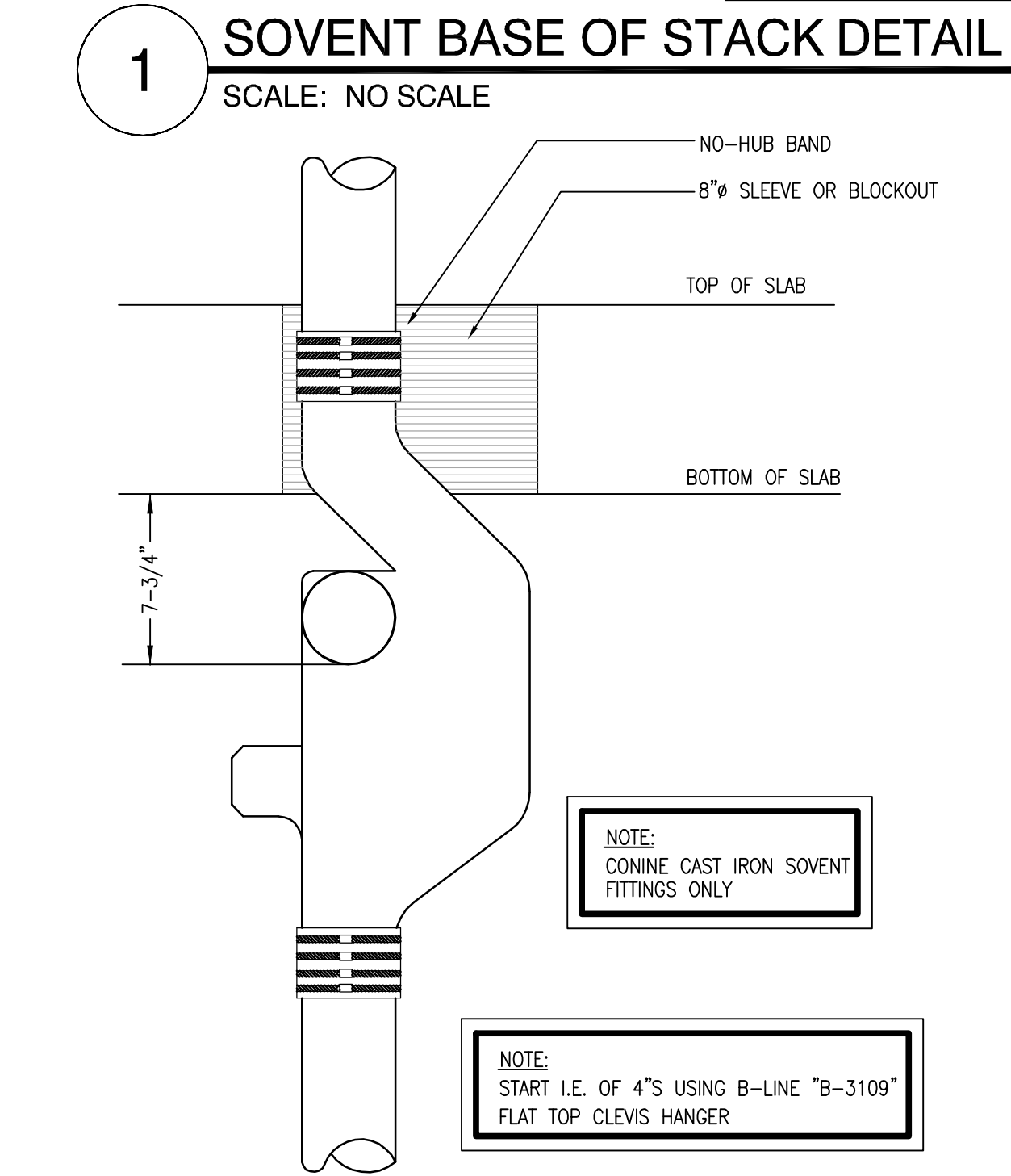
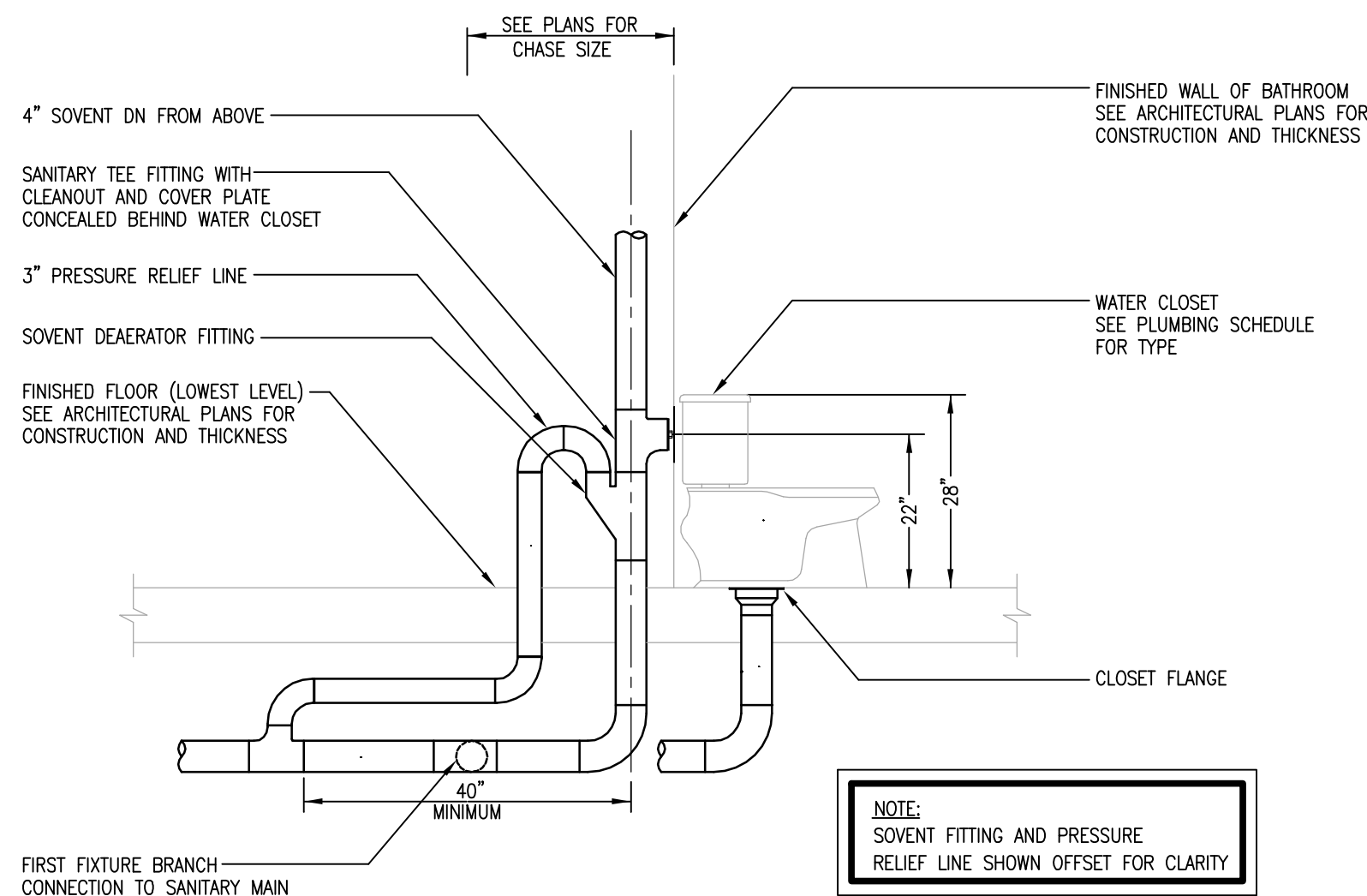
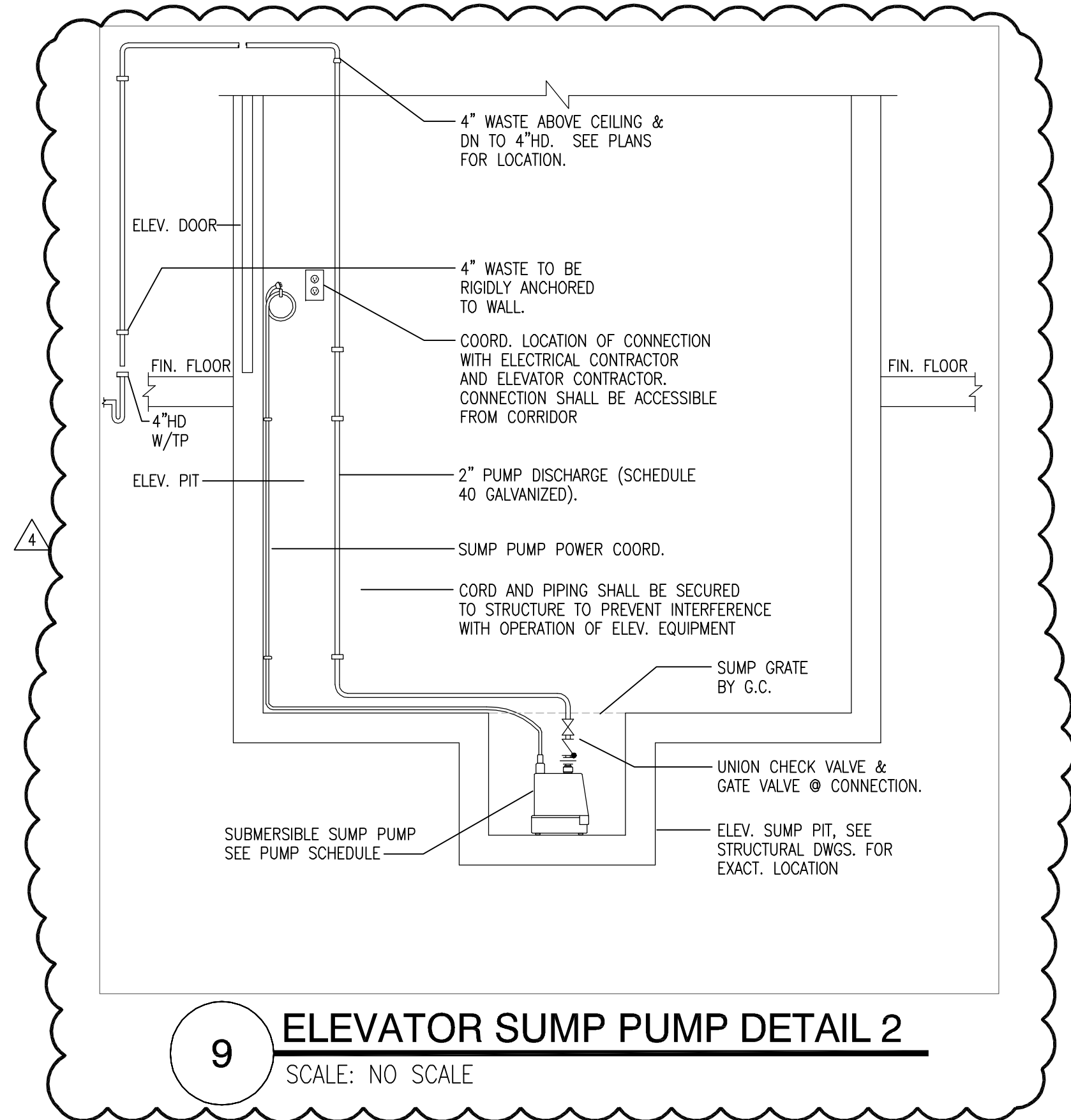
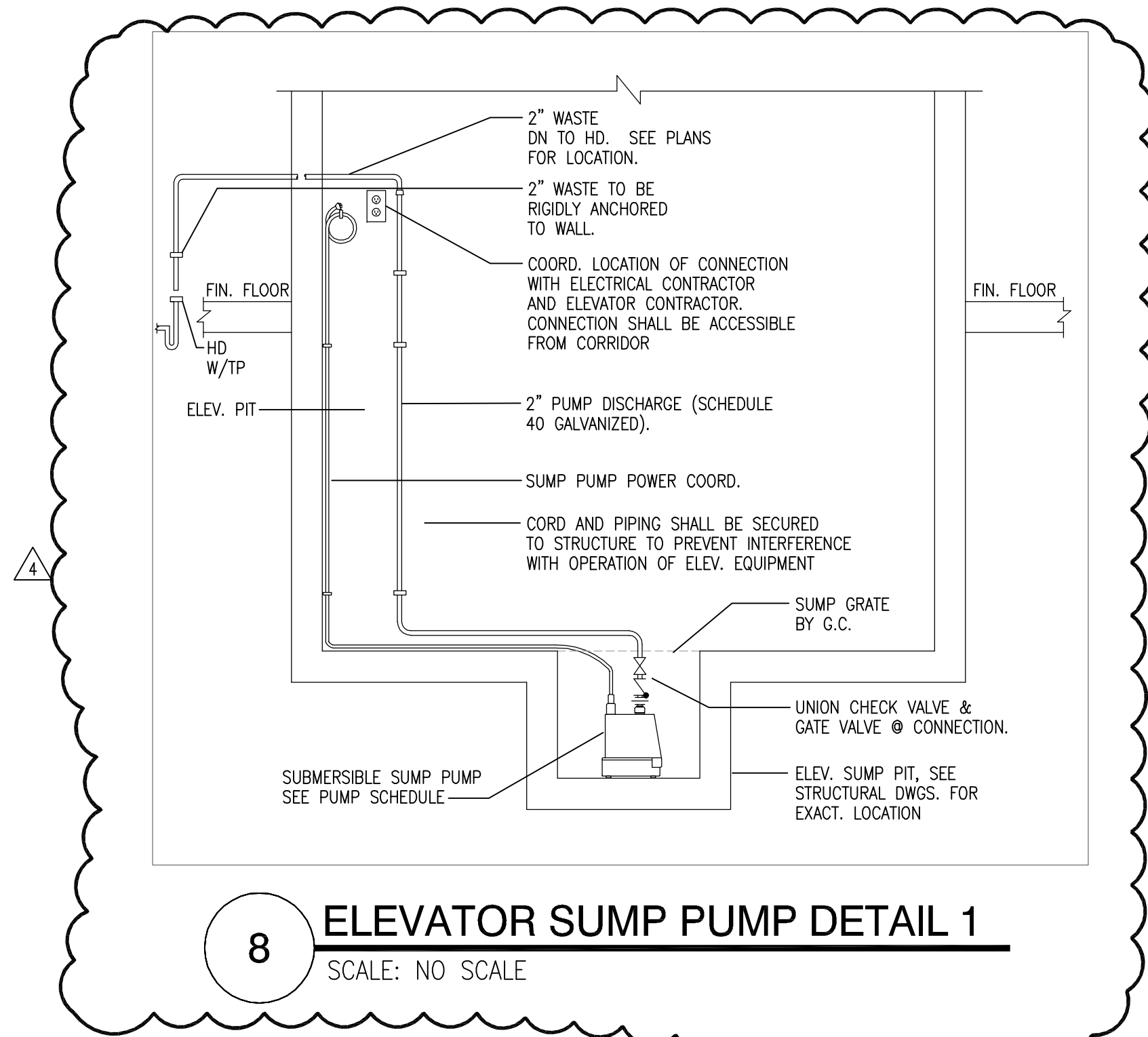
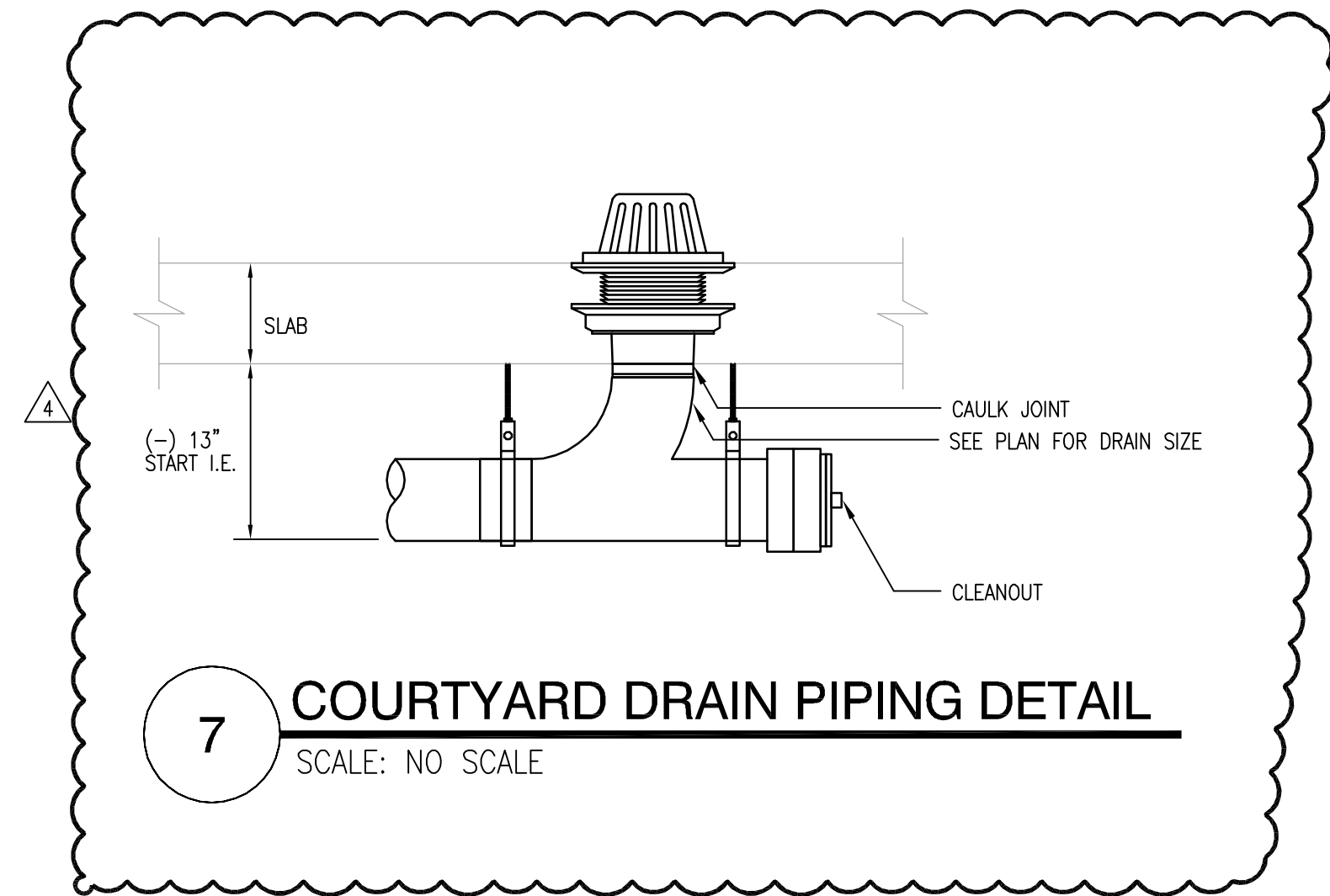
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ATLANTA, GEORGIA

PLUMBING SCHEDULES

P0.02

03/18/2014



PROJECT #: 113044.00
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No.	Description	Date
DESIGN DEVELOP 50%		05/01/14
DESIGN DEVELOP 100%		05/23/14
80% CD SET		07/25/14
100% CD SET		08/18/14
REVISION 1		09/19/14
REVISION 3		10/21/14
REVISION 4		01/23/15

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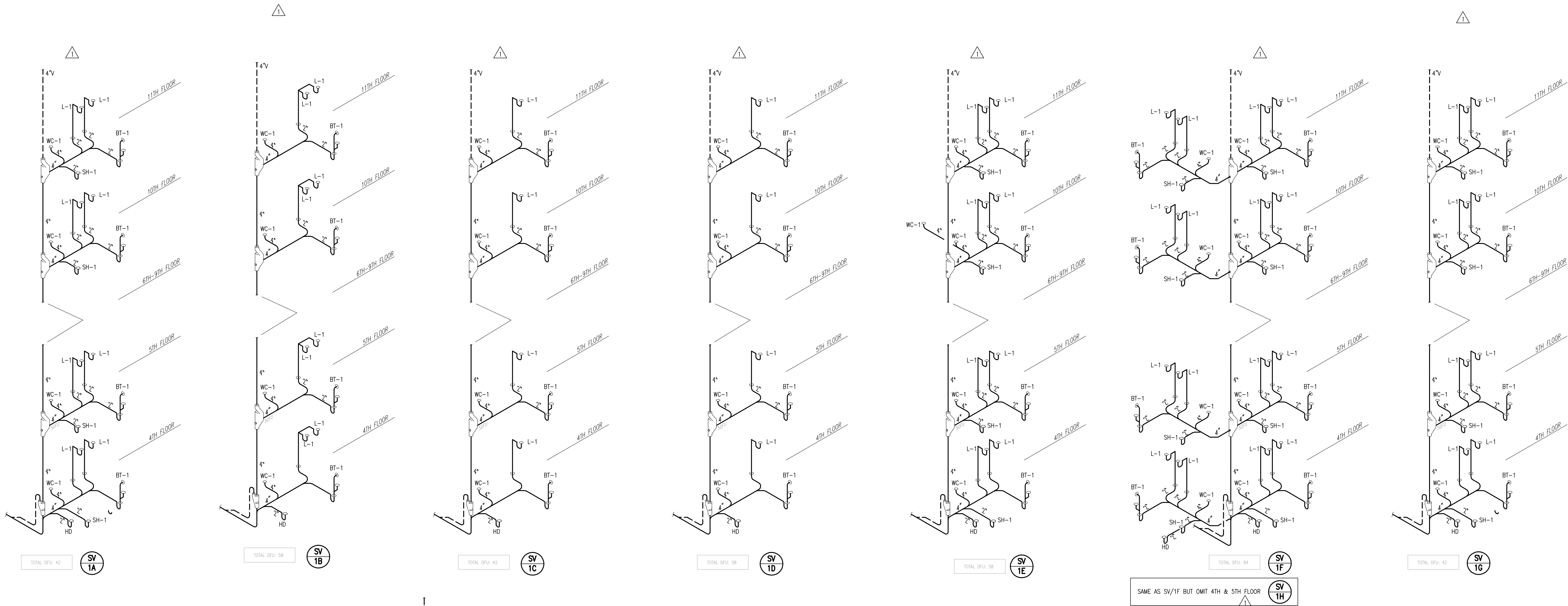
PLUMBING DETAILS

P0.03

03/18/2014

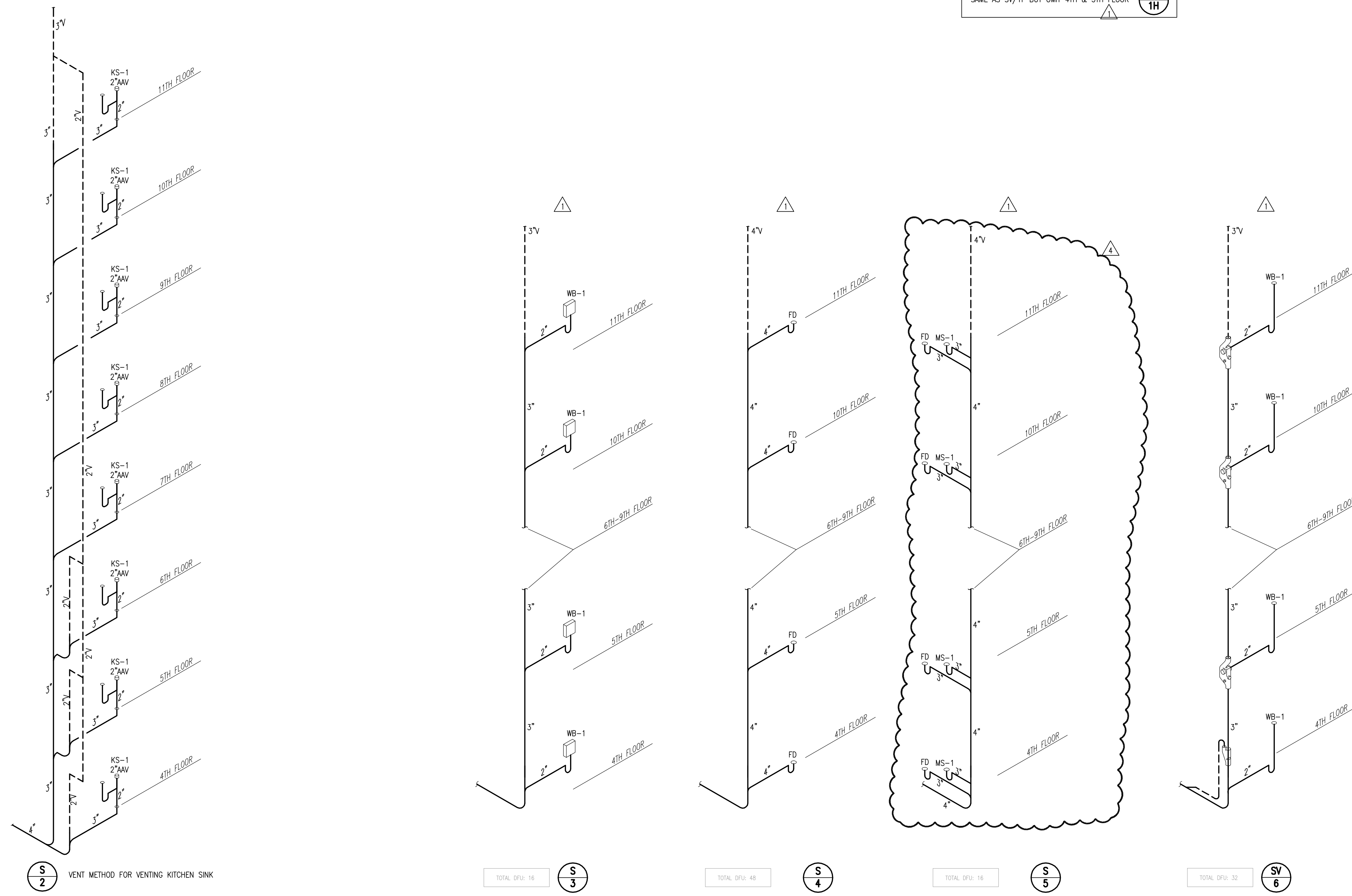
ASBUILT

JSE Jordan & Skala Engineers
4275 Shattuck Road, Suite 200
Norcross, GA 30092
V: 770 447-5547 F: 770 448-0262
Project Number - 141-0208 Drawn By: Checked By:



NOTE: (THE INSTALLATION OF THE AIR ADMITTANCE VALVES MUST CONFORM TO THE REQUIREMENTS OF SECTIONS 918, IPC 2012 & MANUFACTURER'S INSTRUCTIONS.)

1. PROVIDE A AIR ADMITTANCE VALVE AT ISLAND KITCHEN SINK.
2. WHERE THE ISLAND KITCHEN SINK IS LOCATED MORE THAN FOUR BRANCH INTERVALS FROM THE TOP OF THE STACK, THE HORIZONTAL BRANCH SHALL BE PROVIDED WITH A RELIEF VENT THAT SHALL CONNECT TO A VENT STACK.



ASBUILT

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	100% CD SET	08/18/14
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Δ	REVISION 3	10/21/14
Δ	REVISION 4	01/23/15

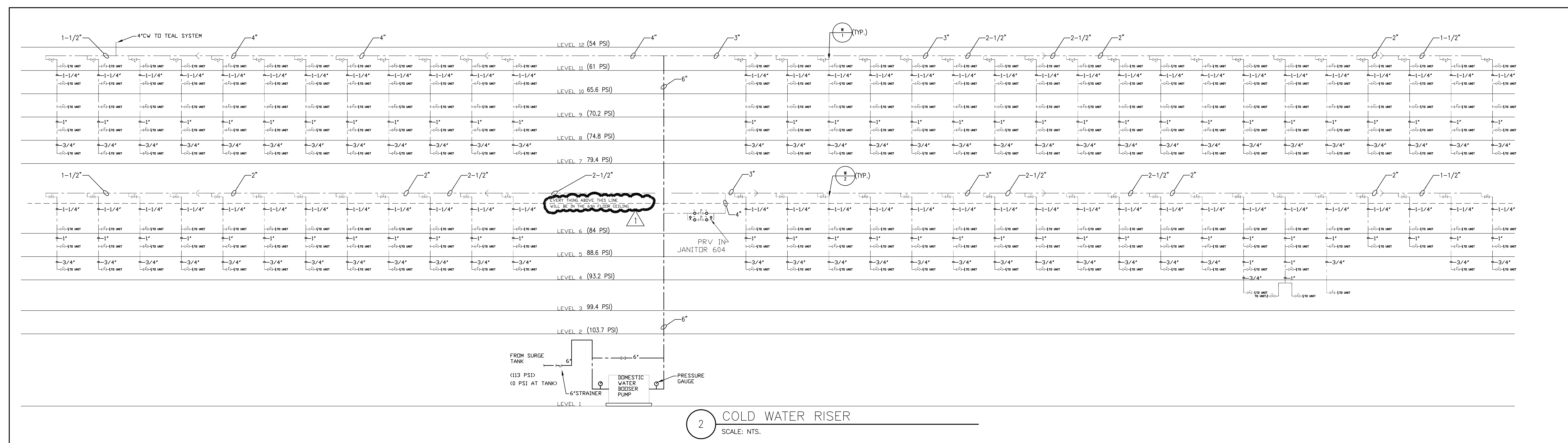
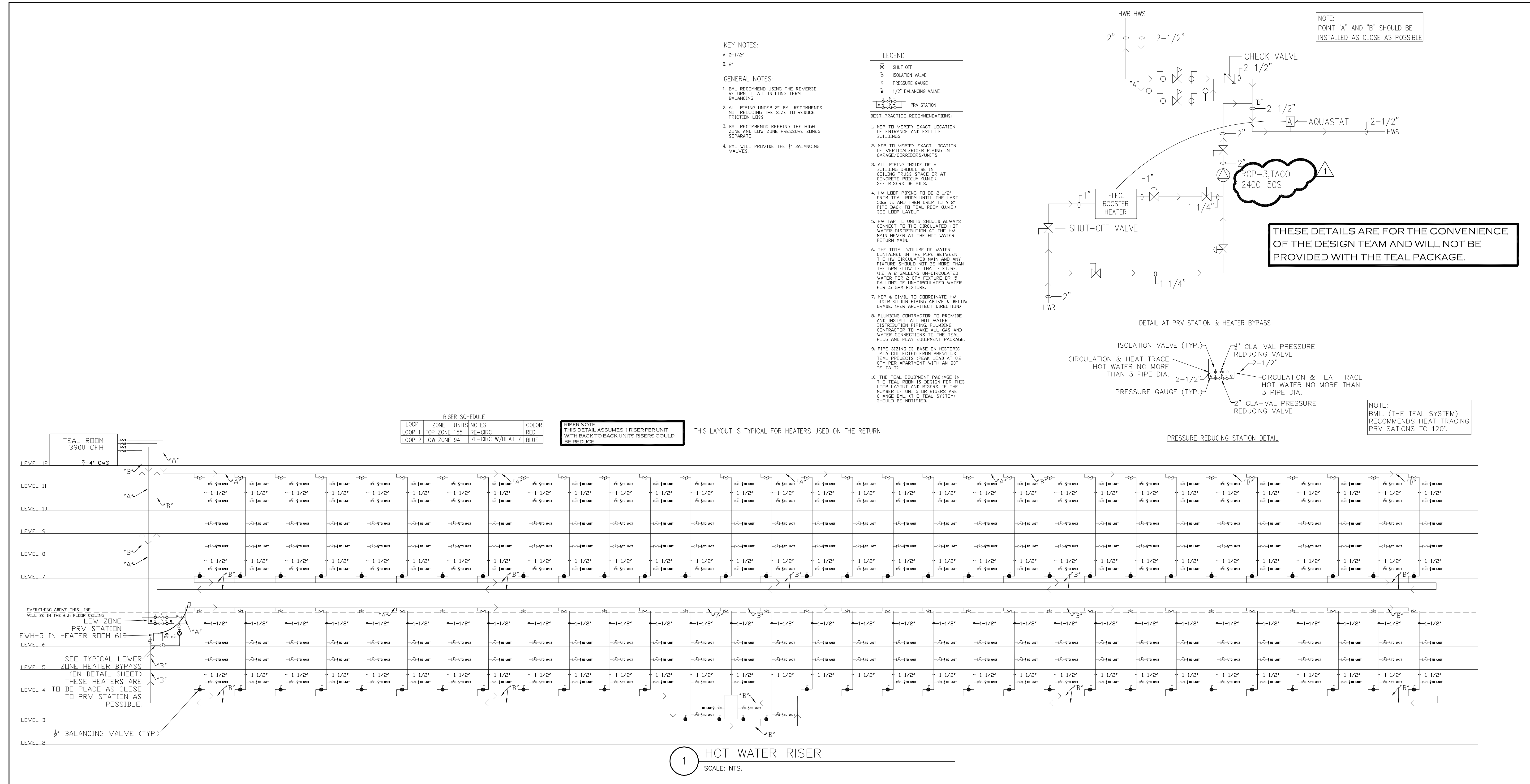
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SANITARY RISERS

PO.04

03/18/2014



PROJECT #: 113044.00

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ATLANTA, GEORGIA

WATER RISERS

P0.05

03/18/2014

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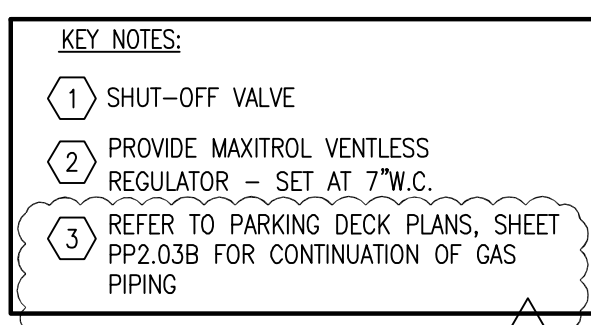
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GAS RISERS

03/18/2014

 $\triangle 3$ 

SCALE: N.T.S.

DRAWN BY:

DRAWN BY:

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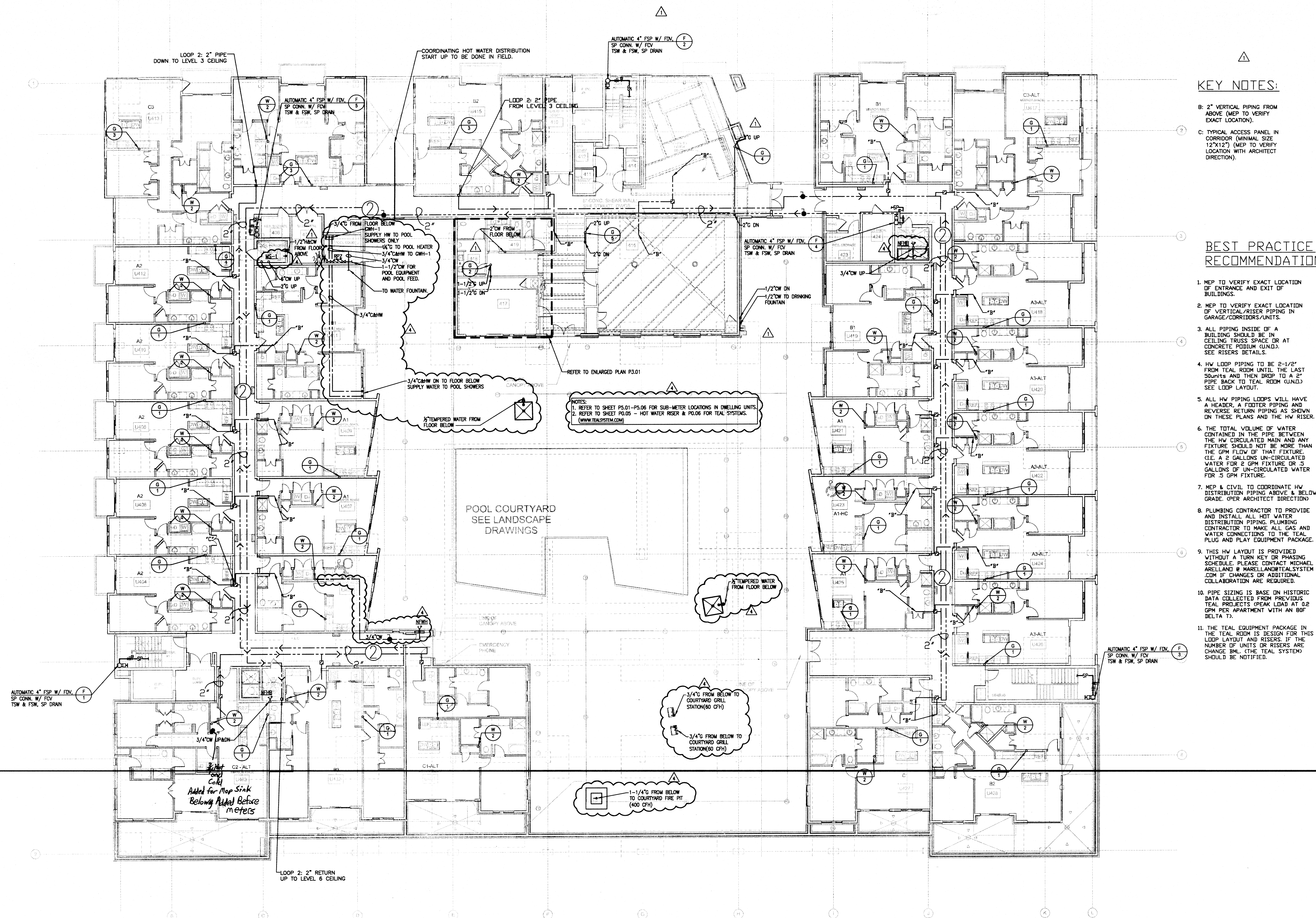
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LEVEL 4 BUILDING PLAN
- WATER & GAS

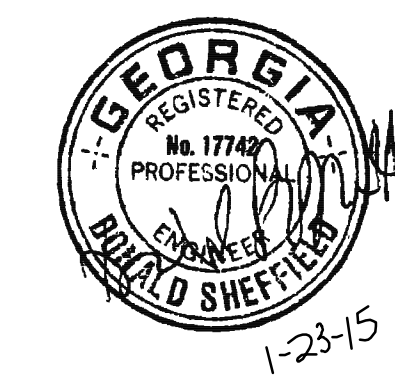
P2.01B

[illegible]

1 LEVEL 4 BUILDING PLAN - WATER & GAS
P2/01R 3/22"=1'-0"

ASBUILT

JSE Jordan & Skala Engineers
 4775 MacArthur Blvd., Suite 203
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 V: (770) 447-5547 F: (770) 448-0262
 Project Number - 141-0208 Drawn By: _____ Checked By: _____



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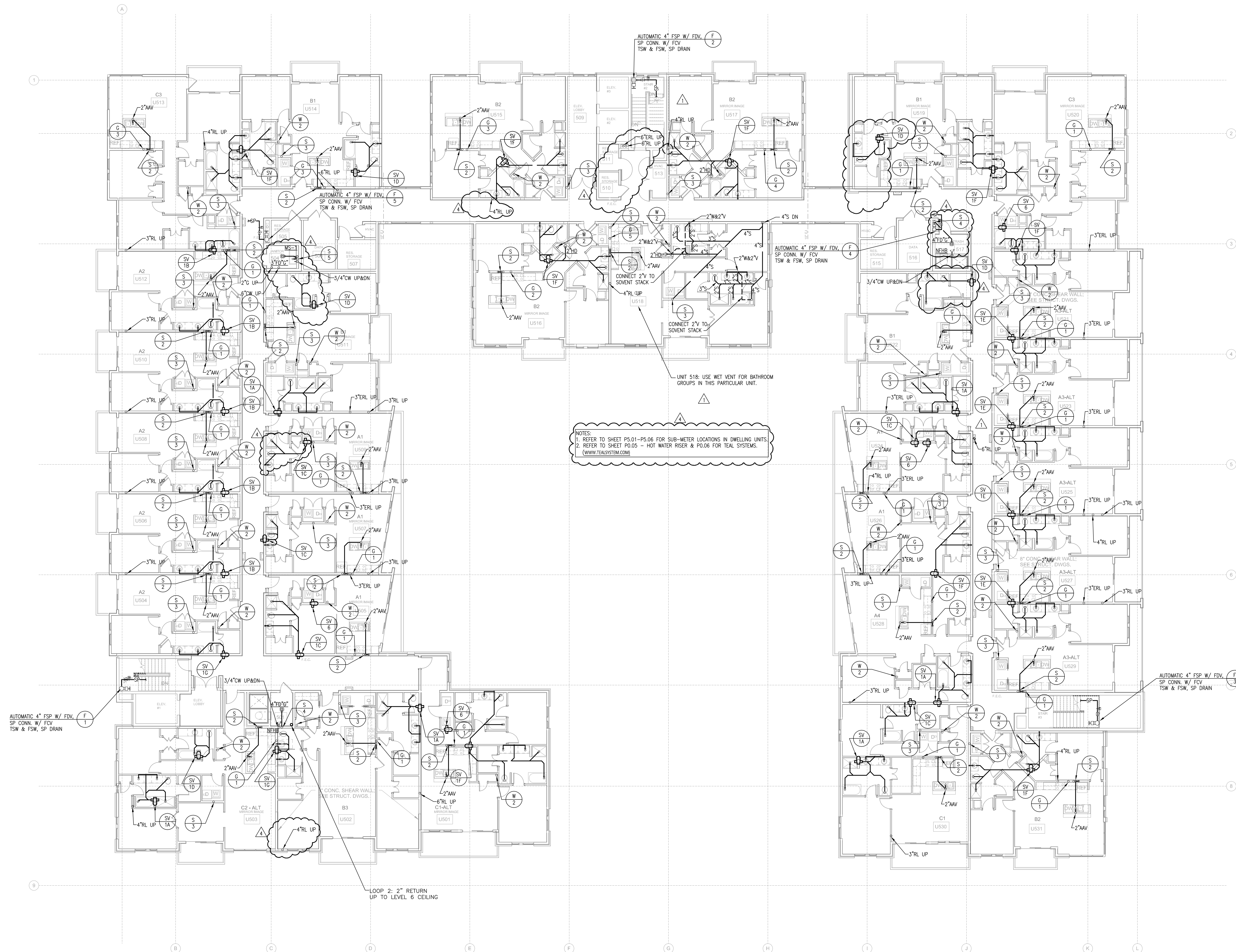
ATLANTA, GEORGIA

**LEVEL 5 BUILDING PLAN -
PLUMBING**

P2.02

03/18/2014

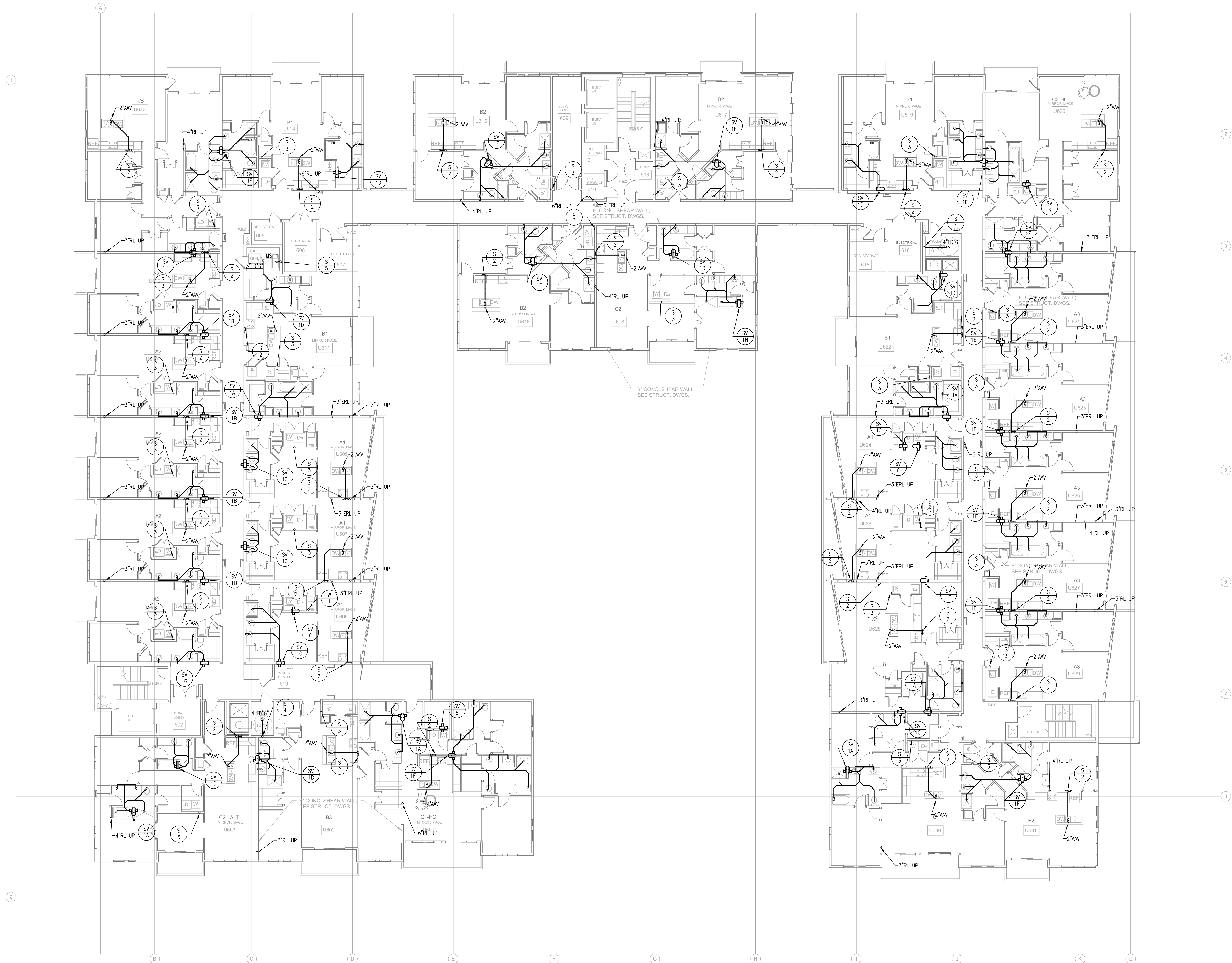
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1 LEVEL 5 BUILDING PLAN - PLUMBING
P2.02 3/02"x1'-0"

ASBUILT

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4275 Shattuck Road, Suite 200
Norcross, GA 30092
V: 770.447.5517 F: 770.448.0262
Project Number - 141-0208 Drawn By: Checked By:



1 LEVEL 6 BUILDING PLAN - SANITARY
P2.03A2 3/02"=1'-0"



PROJECT #: 113044.00

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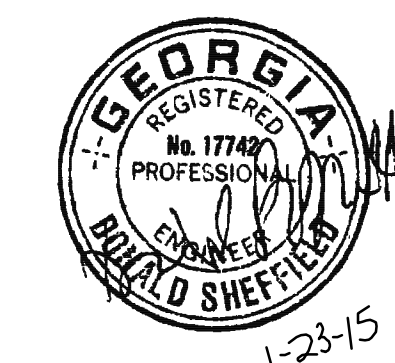
**LEVEL 6 BUILDING PLAN -
SANITARY**



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P2.03A2

03/18/2014



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**LEVEL 6 BUILDING PLAN
- WATER**

P2.03A

03/18/2014

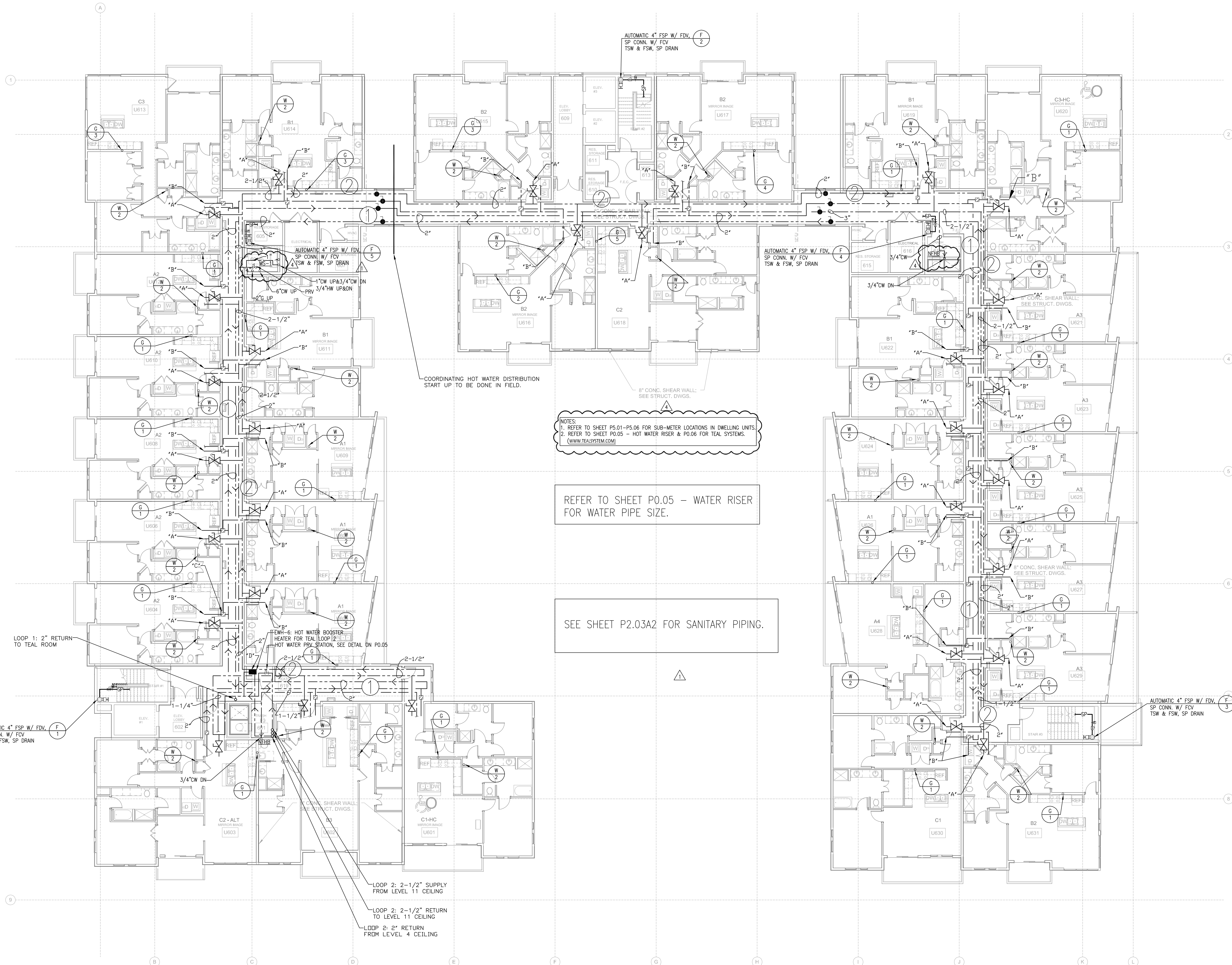
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KEY NOTES:

- 2" VERTICAL PIPING DOWN (MEP TO VERIFY EXACT LOCATION).
- 2" VERTICAL PIPING FROM ABOVE (MEP TO VERIFY EXACT LOCATION).
- TYPICAL ACCESS PANEL IN CORRIDOR (MINIMAL SIZE 12"x12") (MEP TO VERIFY LOCATION WITH ARCHITECT DIRECTION).
- ELECTRIC HEATER & PRV STATION TO BE LOCATED ON THIS FLOOR. (MEP TO VERIFY EXACT LOCATION). SEE HW RISER.

BEST PRACTICE RECOMMENDATIONS:

- MEP TO VERIFY EXACT LOCATION OF ENTRANCE AND EXIT OF BUILDINGS.
- MEP TO VERIFY EXACT LOCATION OF VERTICAL/RISER PIPING IN GARAGE/CORRIDORS/UNITS.
- ALL PIPING INSIDE OF A BUILDING SHOULD BE IN CEILING TRUSS SPACE OR AT CONCRETE PADIUM (UNID.) SEE RISERS DETAILS.
- HW LOOP PIPING TO BE 2-1/2" FROM TEAL ROOM UNTIL THE LAST 50' AND THEN DROP TO A 2" PIPE BACK TO TEAL ROOM (UNID.) SEE LOOP LAYOUT.
- ALL HW PIPING LOOPS WILL HAVE A HEADER, A FOOTER PIPING AND REVERSE RETURN PIPING AS SHOWN ON THESE PLANS AND THE HW RISER.
- THE TOTAL VOLUME OF WATER CONTAINED IN THE PIPE BETWEEN THE HW CIRCULATED MAIN AND ANY FIXTURE SHOULD NOT BE MORE THAN THE GPM FLOW OF THAT FIXTURE. (IE: A 2 GALLONS UN-CIRCULATED WATER FOR 2 GPM FIXTURE OR 5 GALLONS OF UN-CIRCULATED WATER FOR 5 GPM FIXTURE).
- MEP & CIVIL TO COORDINATE HW DISTRIBUTION PIPING ABOVE & BELOW GRADE. (PER ARCHITECT DIRECTION)
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL HOT WATER DISTRIBUTION PIPING. PLUMBING CONTRACTOR TO MAKE ALL GAS AND WATER CONNECTIONS TO THE TEAL PLUG AND PLAY EQUIPMENT PACKAGE.
- THIS HW LAYOUT IS PROVIDED WITHOUT A TURN KEY OR PHASING SCHEDULE. PLEASE CONTACT MICHAEL ARELLANO & MARELLANDERTEALSYSTEM.COM IF CHANGES OR ADDITIONAL COLLABORATION ARE REQUIRED.
- PIPE SIZING IS BASE ON HISTORIC DATA COLLECTED FROM PREVIOUS TEAL PROJECTS (PEAK LOAD AT 0.2 GPM PER APARTMENT WITH AN 80F DELTA T).
- THE TEAL EQUIPMENT PACKAGE IN THE TEAL ROOM IS DESIGN FOR THIS LOOP LAYOUT AND RISERS. IF THE NUMBER OF UNITS OR RISERS ARE CHANGE BML. (THE TEAL SYSTEM) SHOULD BE NOTIFIED.



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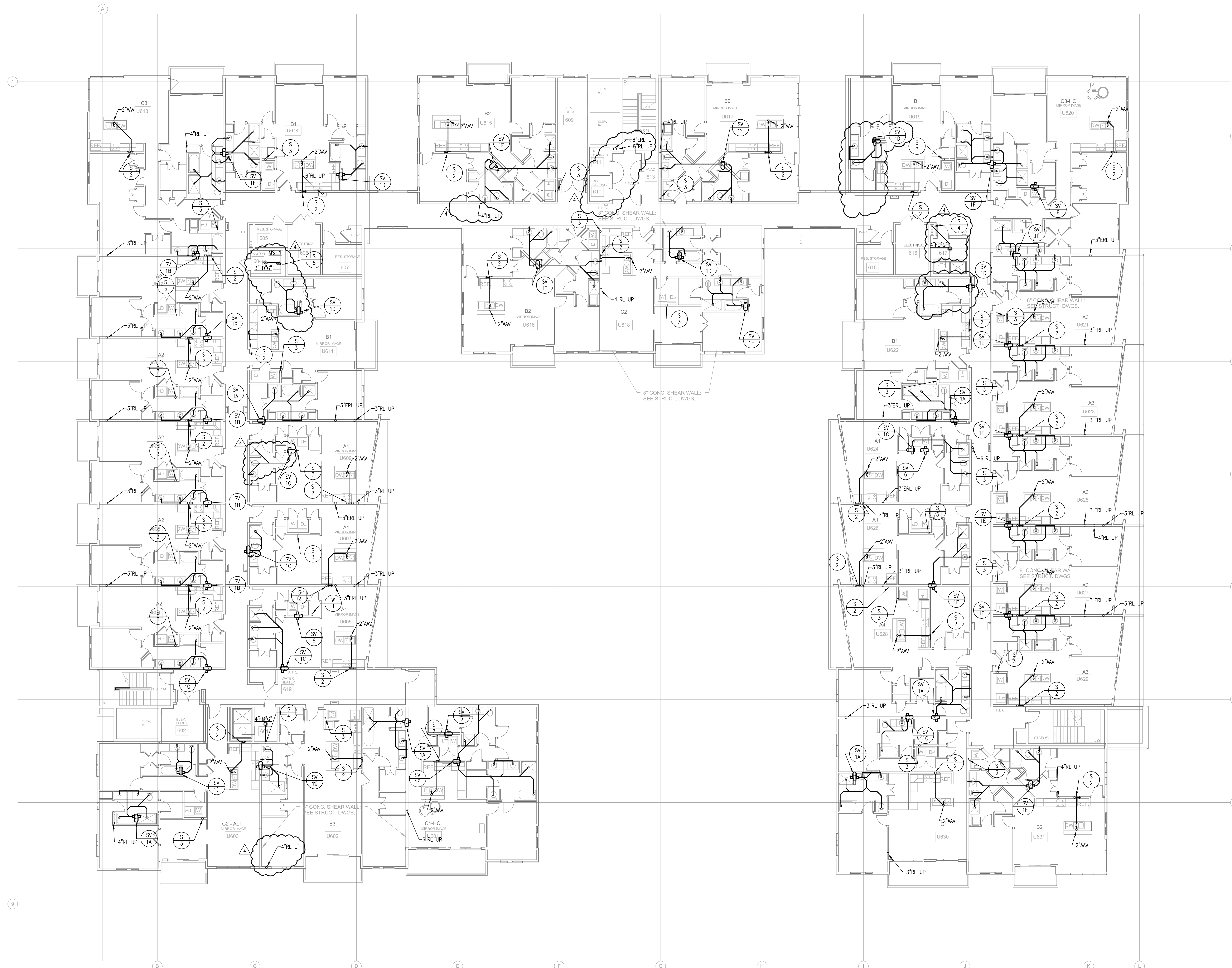
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**LEVEL 6 BUILDING PLAN -
SANITARY**

P2.03A2

03/18/2014

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1 LEVEL 6 BUILDING PLAN - SANITARY
P2.03A2 3/32"=1'-0"

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Project Number - 141-0208 Drawn By: _____ Checked By: _____

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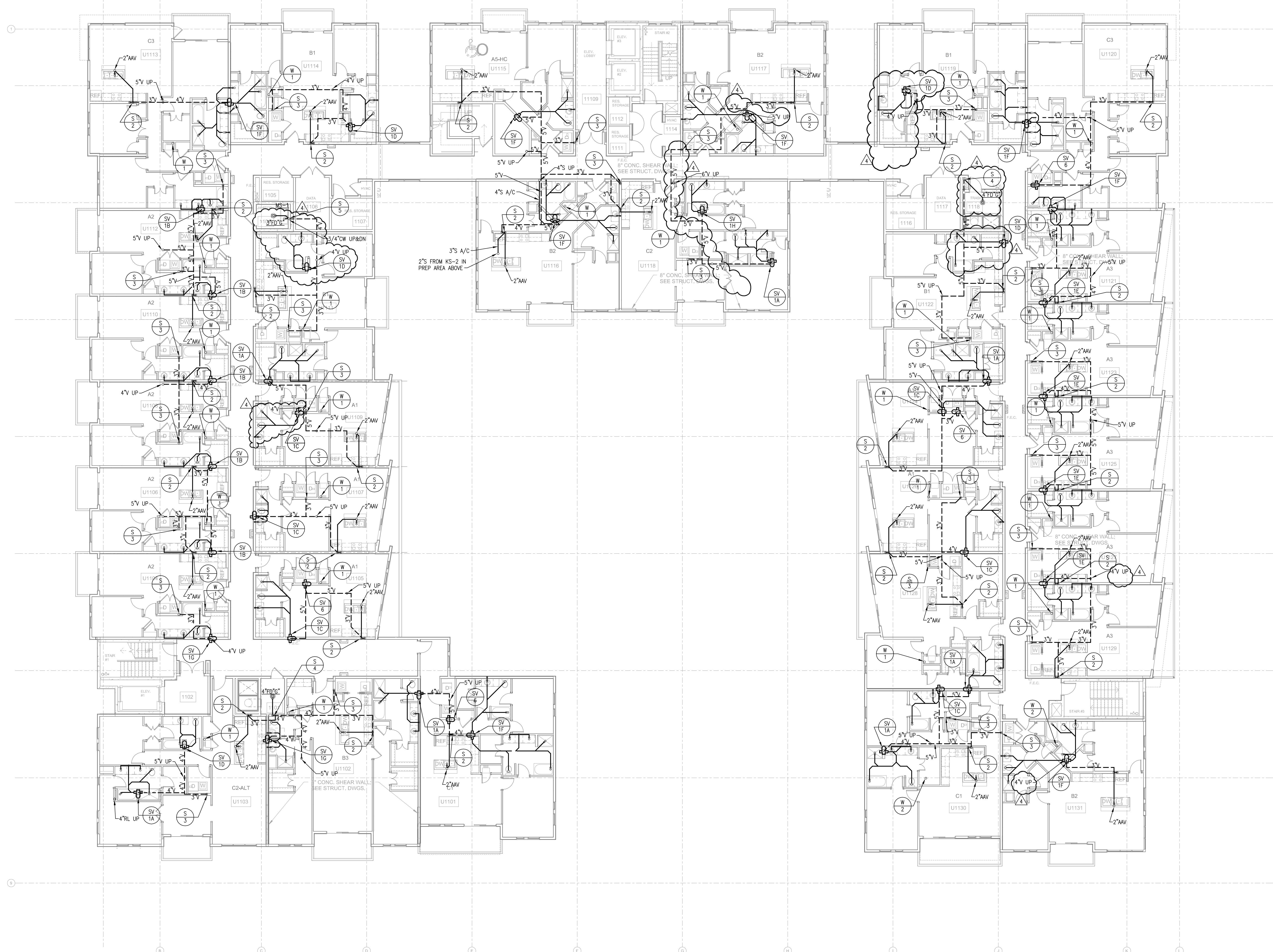
ATLANTA, GEORGIA

**LEVEL 11 BUILDING PLAN -
SANITARY**

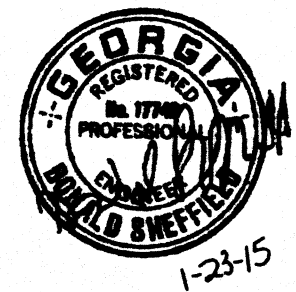
P2.04A

03/18/2014

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1 LEVEL 11 BUILDING PLAN - SANITARY



PROJECT #: 113044.00
DRAWN BY:
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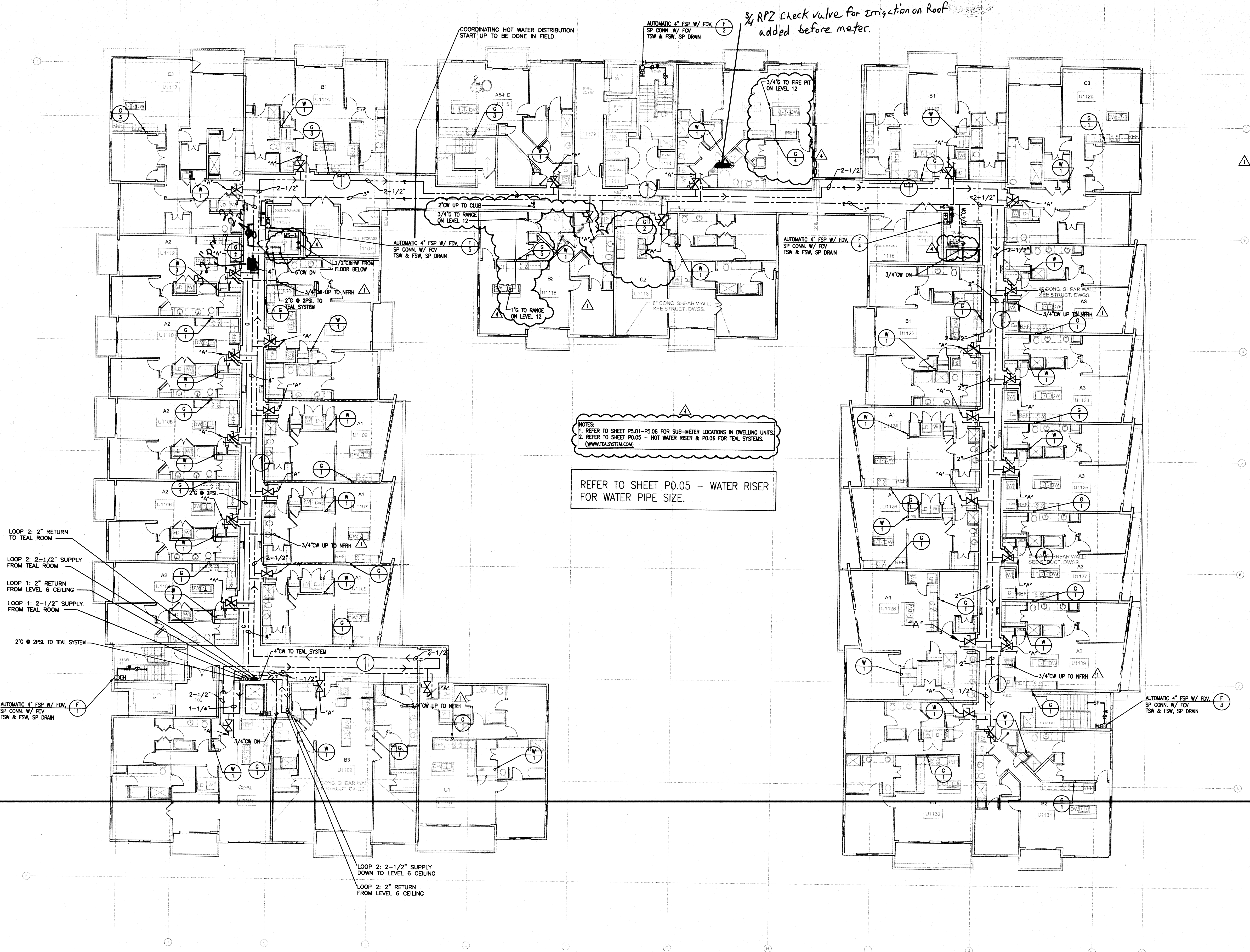
ATLANTA, GEORGIA

KEY NOTES:

A: 2" VERTICAL PIPING DOWN
(MEP TO VERIFY EXACT
LOCATION).

**BEST PRACTICE
RECOMMENDATIONS:**

- MEP TO VERIFY EXACT LOCATION OF ENTRANCE AND EXIT OF BUILDINGS.
- MEP TO VERIFY EXACT LOCATION OF VERTICAL RISER PIPING IN GARAGE/CORRIDORS/UNITS.
- ALL PIPING INSIDE OF A BUILDING SHOULD BE IN CEILING TRUSS SPACE OR AT CONCRETE POUCEMENT (U.N.D.). SEE RISERS DETAILS.
- HW LOOP PIPING TO BE 2-1/2" FROM TEAL ROOM UNTIL THE LAST SQUIPPS AND THEN DROP TO A 2" PIPE BACK TO TEAL ROOM (U.N.D.) SEE LOOP LAYOUT.
- ALL HW PIPING LOOPS WILL HAVE A HEADER, A FOOTER PIPING AND REVERSE RETURN PIPING AS SHOWN ON THESE PLANS AND THE HW RISER.
- THE TOTAL VOLUME OF WATER CONTAINED IN THE PIPE BETWEEN THE HW CIRCULATED MAIN AND ANY FIXTURE SHOULD NOT BE MORE THAN THE GPM FLOW OF THAT FIXTURE. (IE. A 2 GALLONS UN-CIRCULATED WATER FOR 2 GPM FIXTURE OR 5 GALLONS OF UN-CIRCULATED WATER FOR 5 GPM FIXTURE).
- MEP & CIVIL TO COORDINATE HW DISTRIBUTION PIPING ABOVE & BELOW GRADE. (PER ARCHITECT DIRECTION)
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL HOT WATER DISTRIBUTION PIPING. PLUMBING CONTRACTOR TO MAKE ALL GAS AND WATER CONNECTIONS TO THE TEAL PLUG AND PLAY EQUIPMENT PACKAGE.
- THIS HW LAYOUT IS PROVIDED WITHOUT A TURN KEY OR PHASING SCHEDULE. PLEASE CONTACT MICHAEL ARELLANO @ MARELLANDTEALSYSTEM.COM IF CHANGES OR ADDITIONAL COLLABORATION ARE REQUIRED.
- PIPE SIZING IS BASED ON HISTORIC DATA COLLECTED FROM PREVIOUS TEAL PROJECTS. PEAK LOAD AT 0.2 GPM PER APARTMENT WITH AN 80° DELTA T.
- THE TEAL EQUIPMENT PACKAGE IN THE TEAL ROOM IS DESIGNED FOR THIS LOOP LAYOUT AND RISERS. IF THE NUMBER OF UNITS OR RISERS ARE CHANGED BML (THE TEAL SYSTEM) SHOULD BE NOTIFIED.



NOTES:
1. REFER TO SHEET P2.01-P2.06 FOR SUB-METER LOCATIONS IN DWELLING UNITS.
2. REFER TO SHEET P2.05 - HOT WATER RISER & P2.06 FOR TEAL SYSTEMS.
(WWW.TEALSYSTEM.COM)

REFER TO SHEET P2.05 - WATER RISER
FOR WATER PIPE SIZE.

1 LEVEL 11 BUILDING PLAN - WATER & GAS
P2.04B 3/22/11-0"

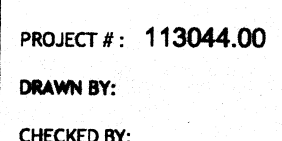
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1275 West University Ave., Suite 200
Durham, NC 27701
N 919 487-5527 F 919 487-4262
Project Number: 141-0208 Drawn By: Checked By:

P2.04B

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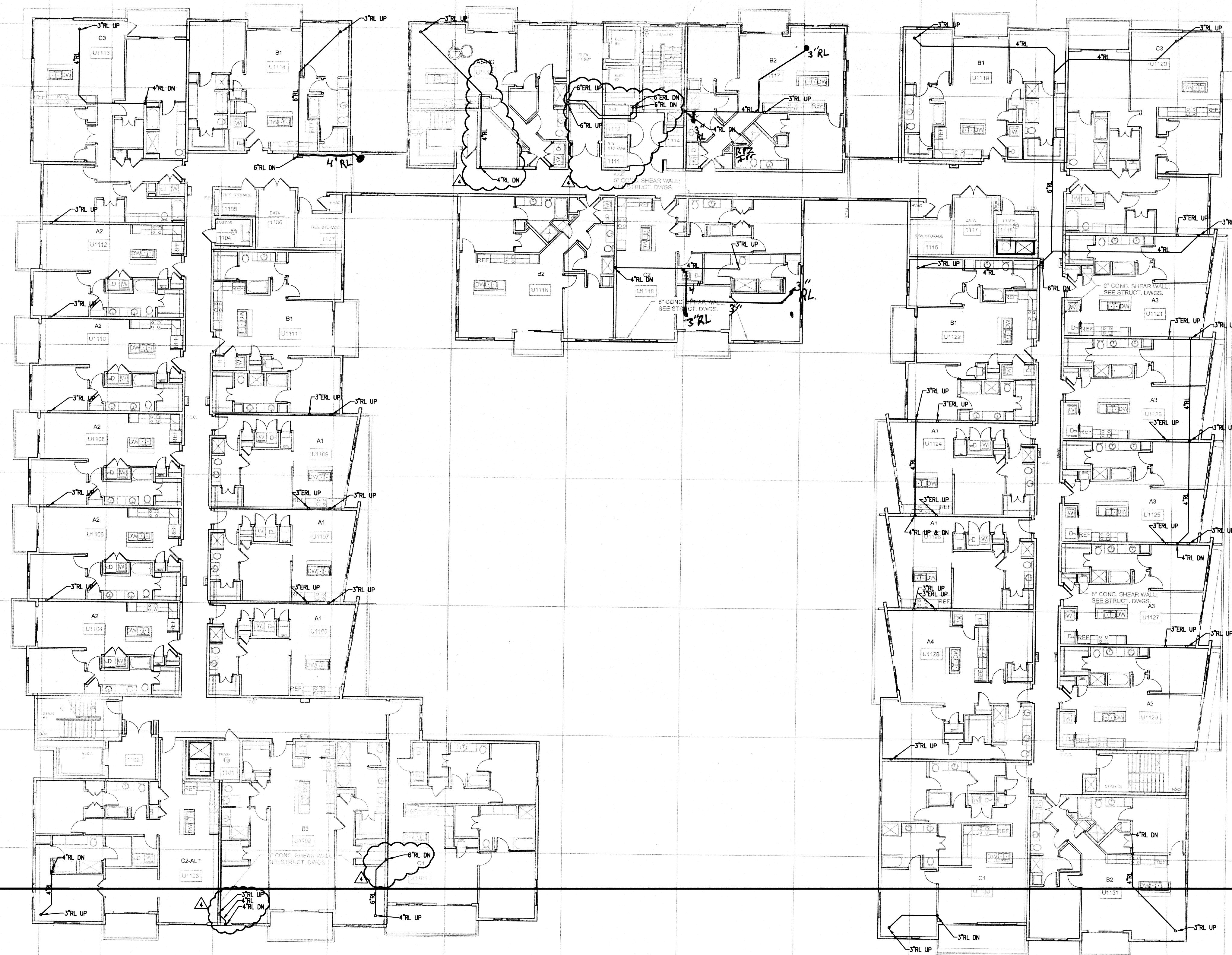
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LEVEL 11 BUILDING PLAN
STORM

P2.04C

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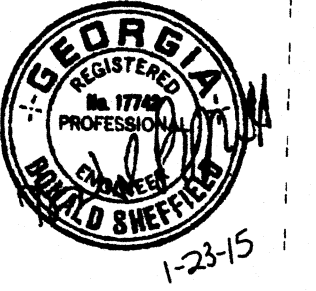
1 LEVEL 11 BUILDING PLAN - STORM
P2.04C 3/32"=1'-0"

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Norcross, GA 30093
V: (770) 447-5547 F: (770) 448-0262

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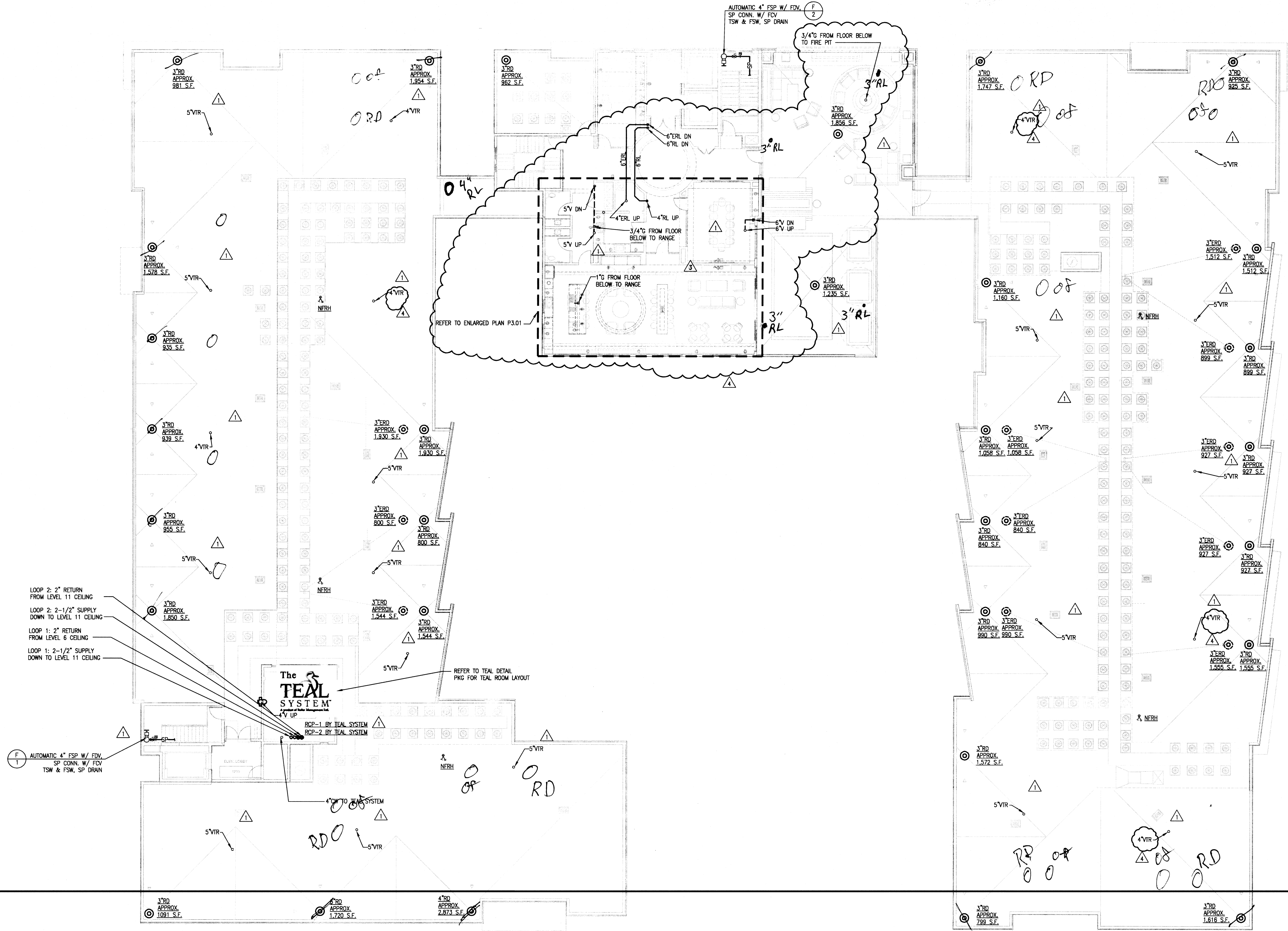
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**LEVEL 12 BUILDING PLAN -
PLUMBING**

P2.05
03/18/2014

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1 LEVEL 12 BUILDING PLAN - PLUMBING
P2.05 3/22/14

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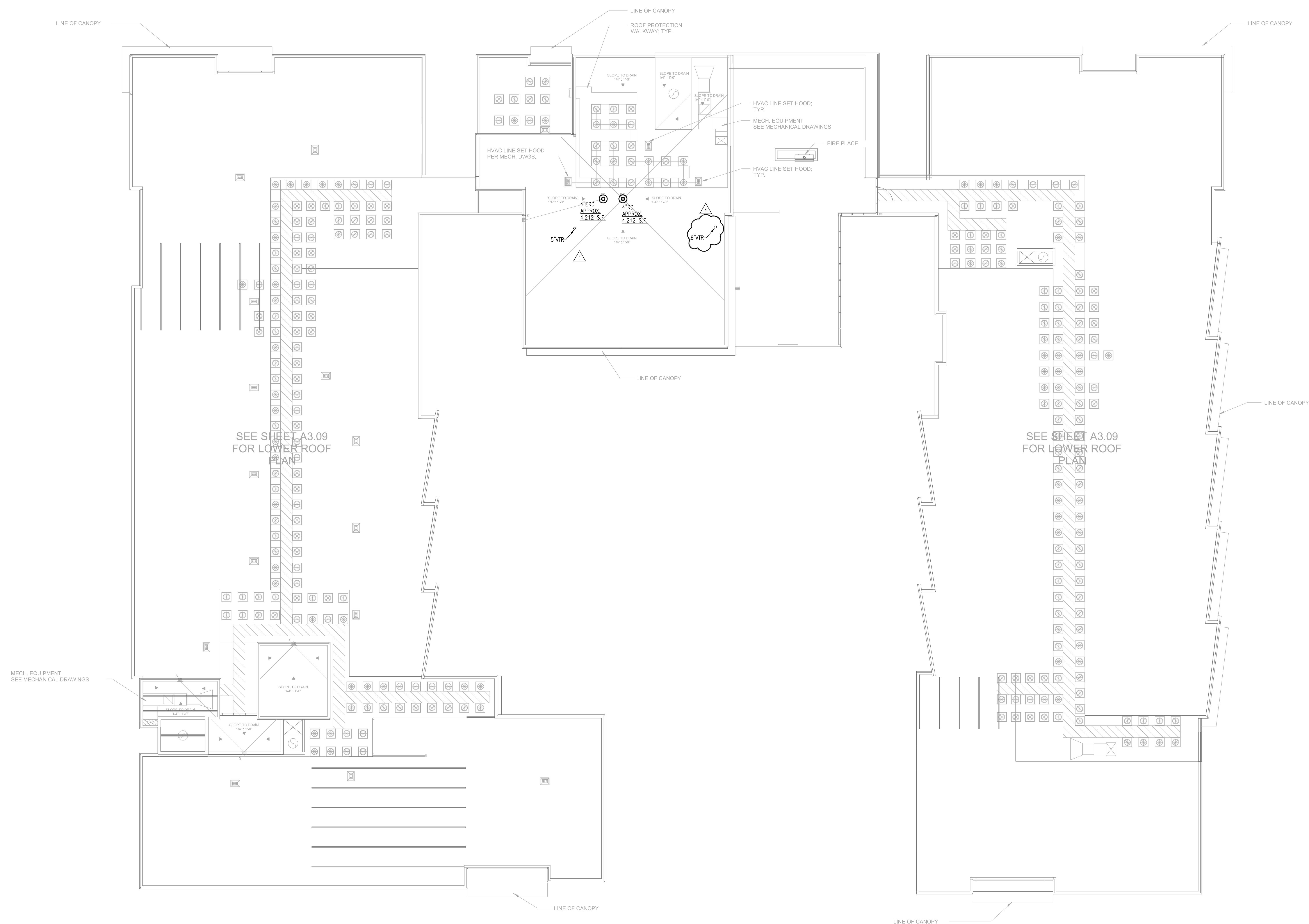
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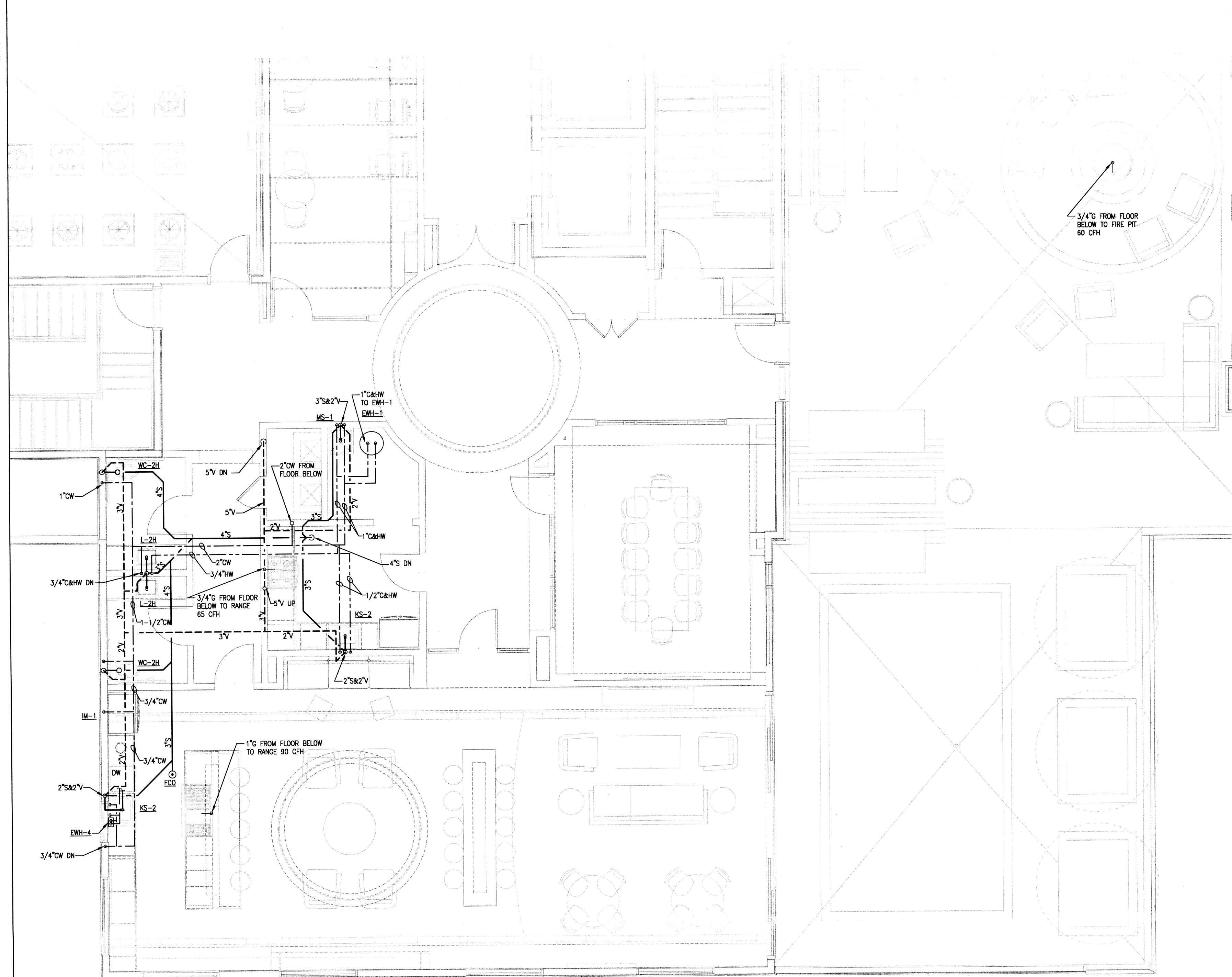
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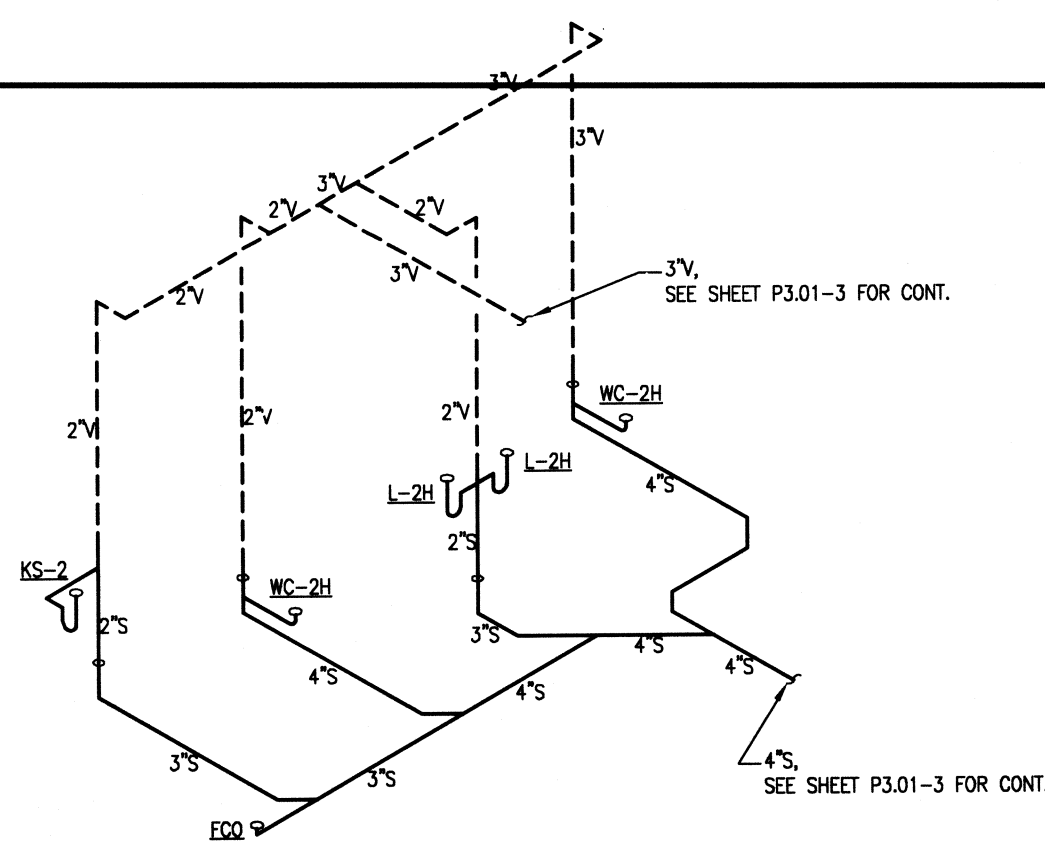
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03/18/2014

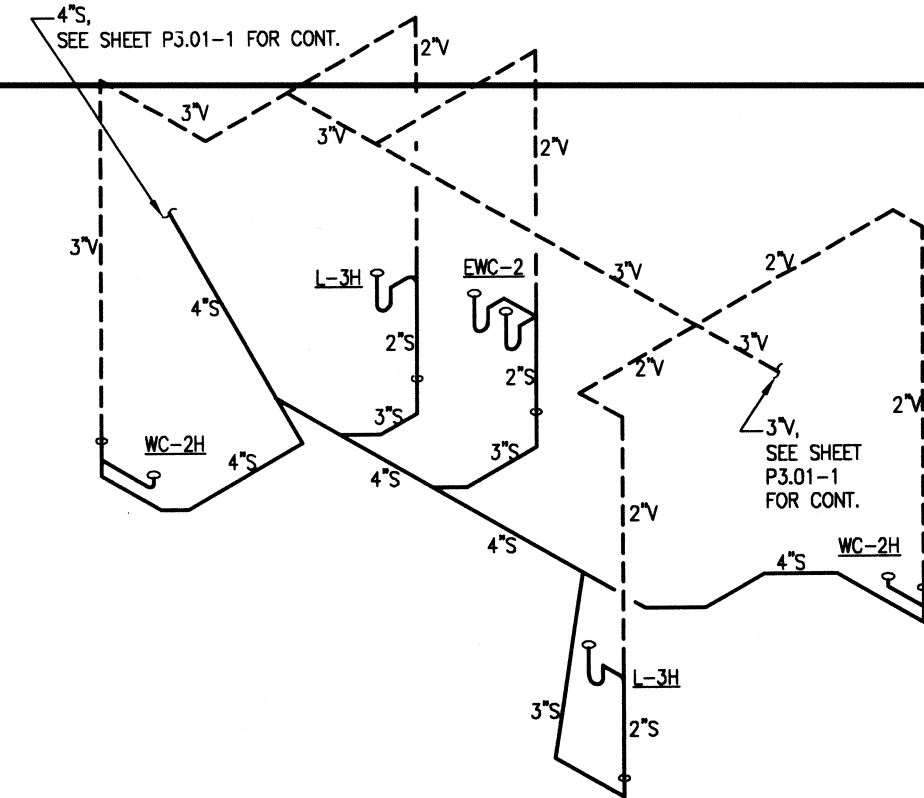




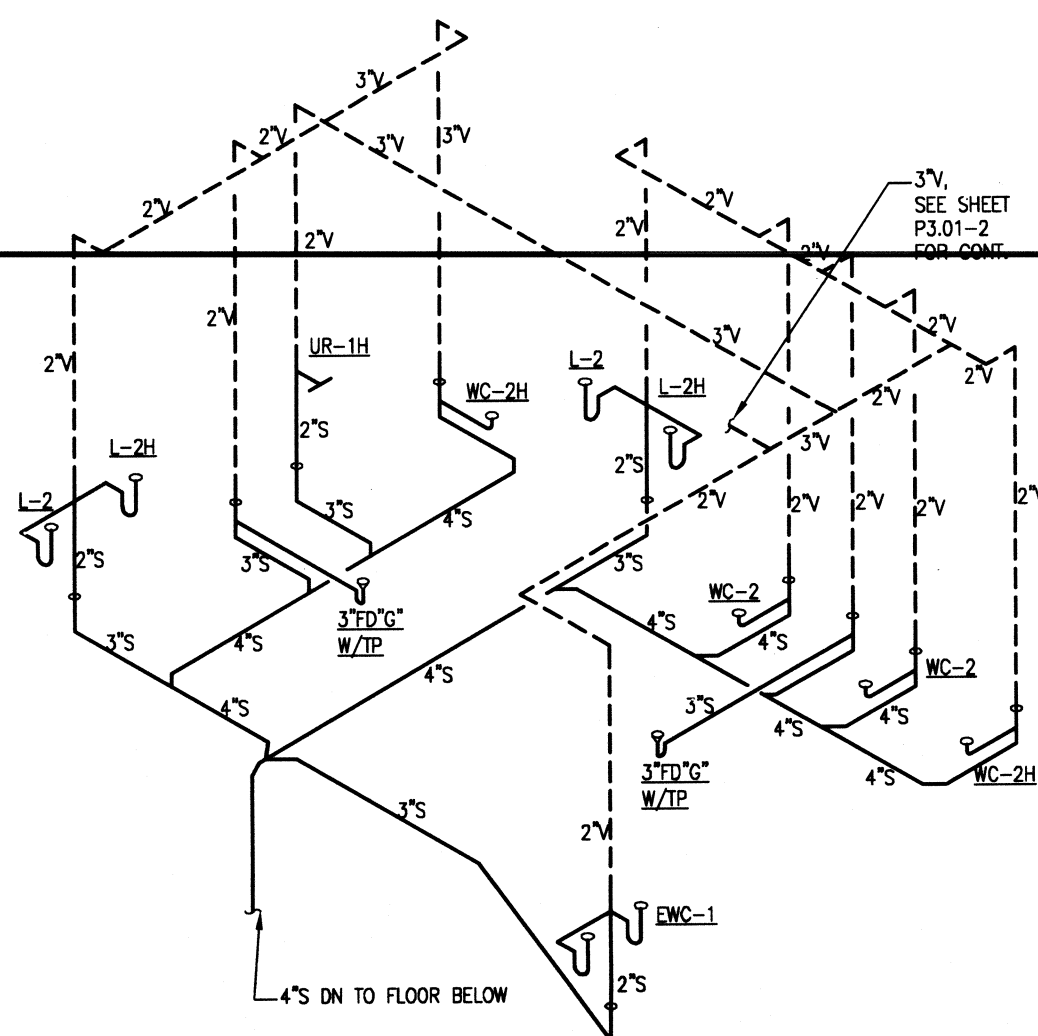
3 LEVEL 12, CLUB, PLUMBING PLAN
P3.01 1/4"=1'-0"



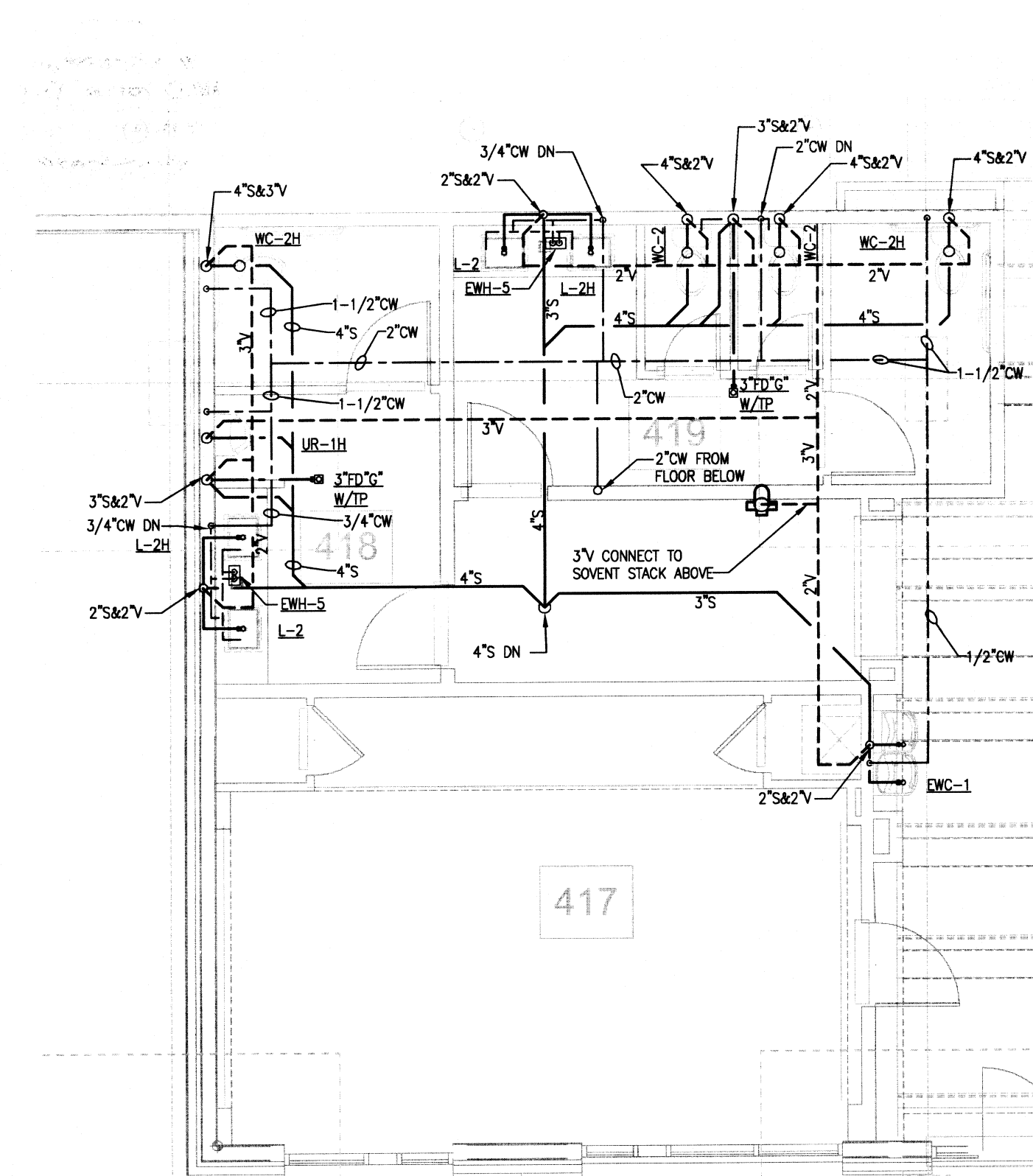
4 LEVEL 12, CLUB, RESTROOM SANITARY RISER
P3.01 NTS



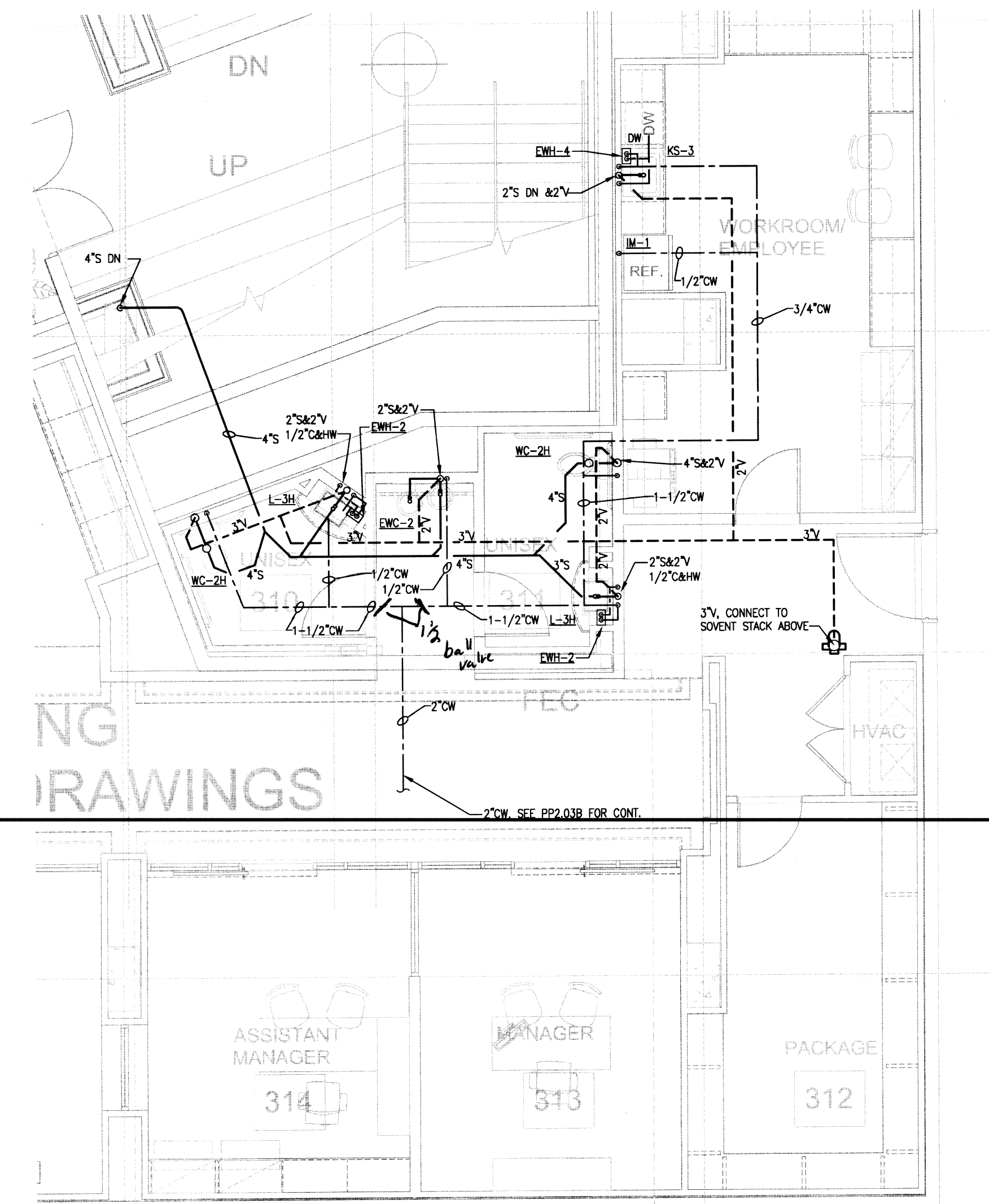
5 LEVEL 3, LEASING, RESTROOM SANITARY RISER
P3.01 NTS



6 LEVEL 4, FITNESS, RESTROOM SANITARY RISER
P3.01 NTS



2 LEVEL 4, FITNESS, PLUMBING PLAN
P3.01 1/4"=1'-0"



1 LEVEL 3, LEASING, PLUMBING PLAN
P3.01 1/4"=1'-0"

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Norcross, GA 30093
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ENLARGED FLOOR PLANS
- PLUMBING

P3.01

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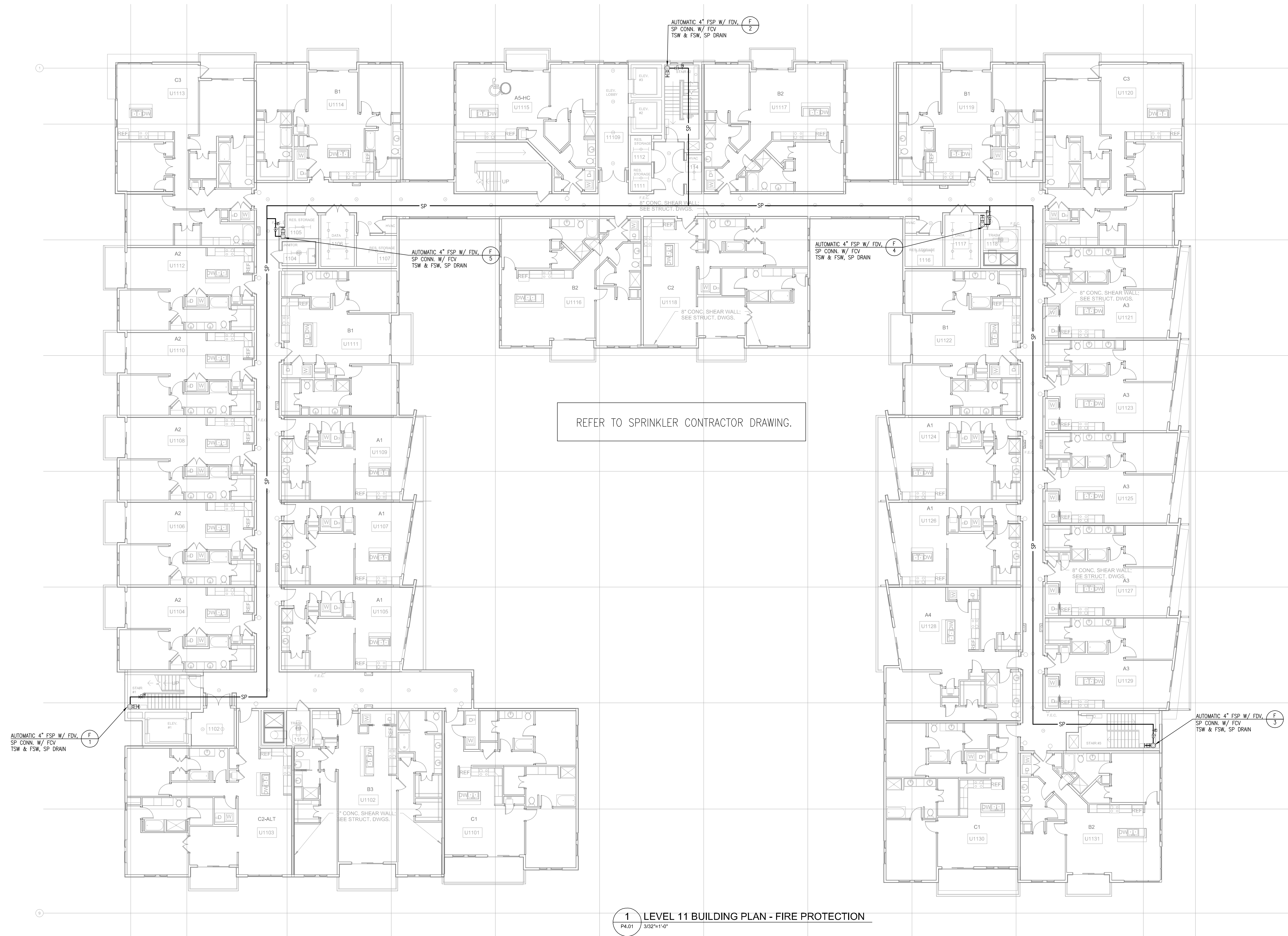
No.	Description	Date
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ATLANTA, GEORGIA

P4.01

03/18/2014



1 LEVEL 11 BUILDING PLAN - FIRE PROTECTION
P4.01 3/32"=1'-0"

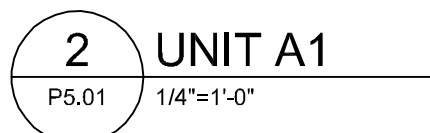
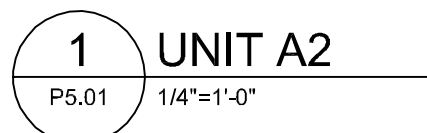
**NILES BOLTON
ASSOCIATES**[illegible]

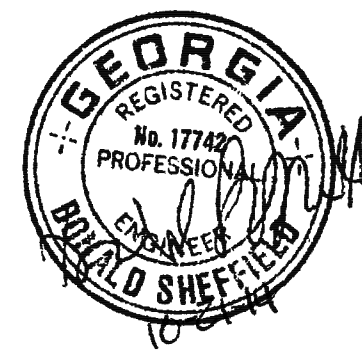
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P5.01

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**UNIT PLANS
A3, A3-ALT & A4 - PLUMBING**

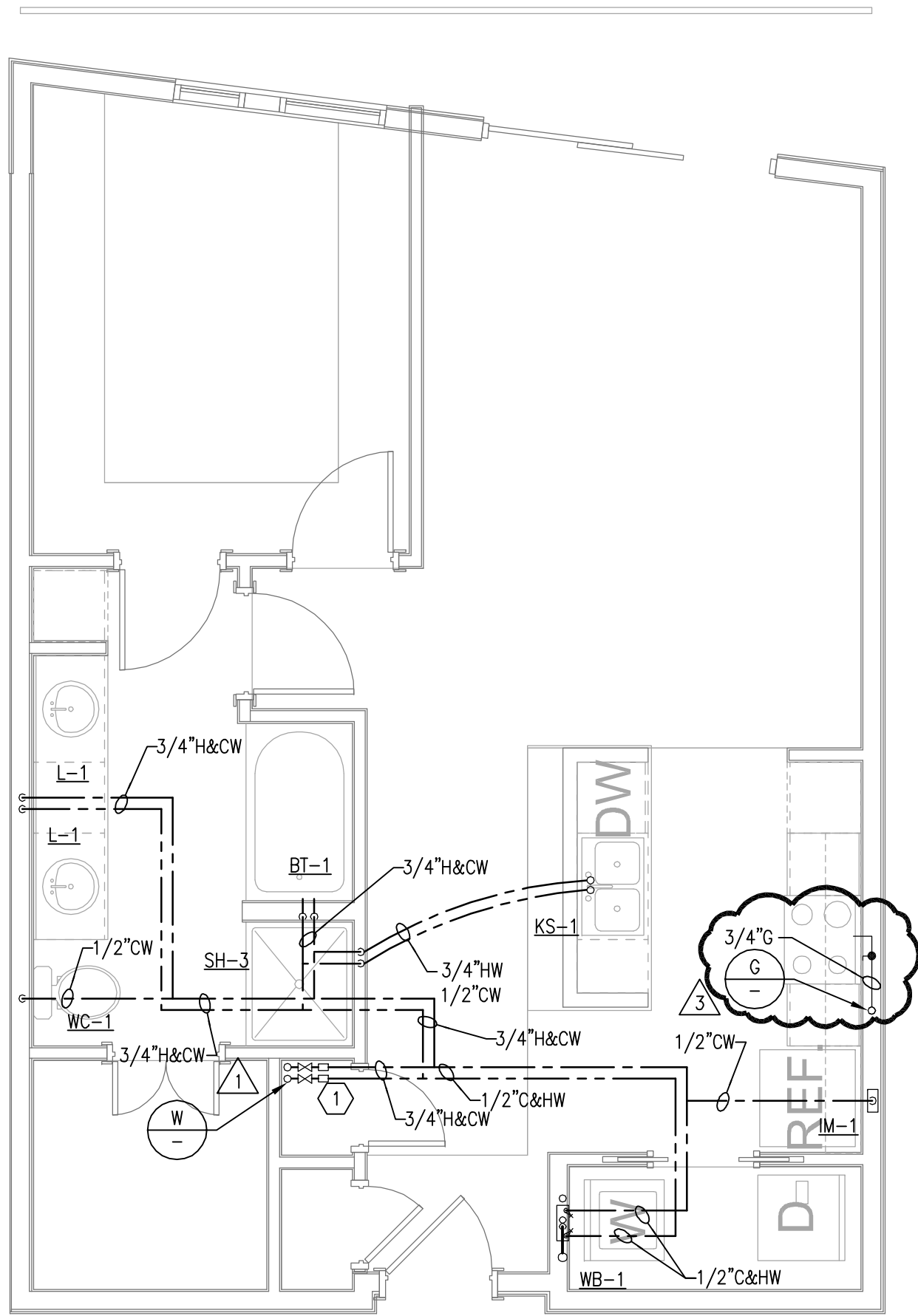
P5.02

03/18/2014

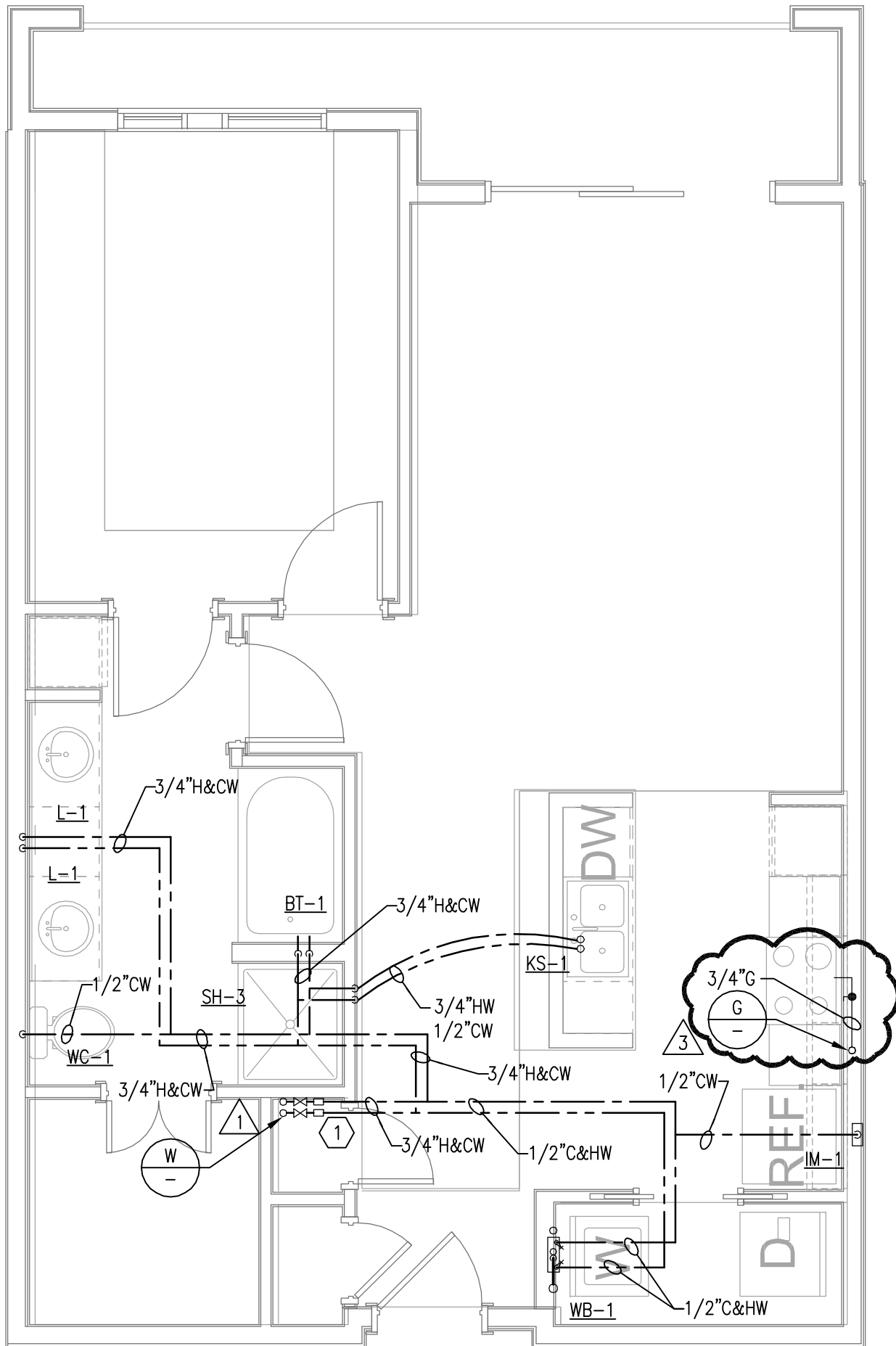
REFER TO BUILDING FLOOR PLANS
FOR ROUTING OF SANITARY PIPING.
PLUMBING SHEETS P2.01 - P2.05.

PLUMBING KEY NOTES:

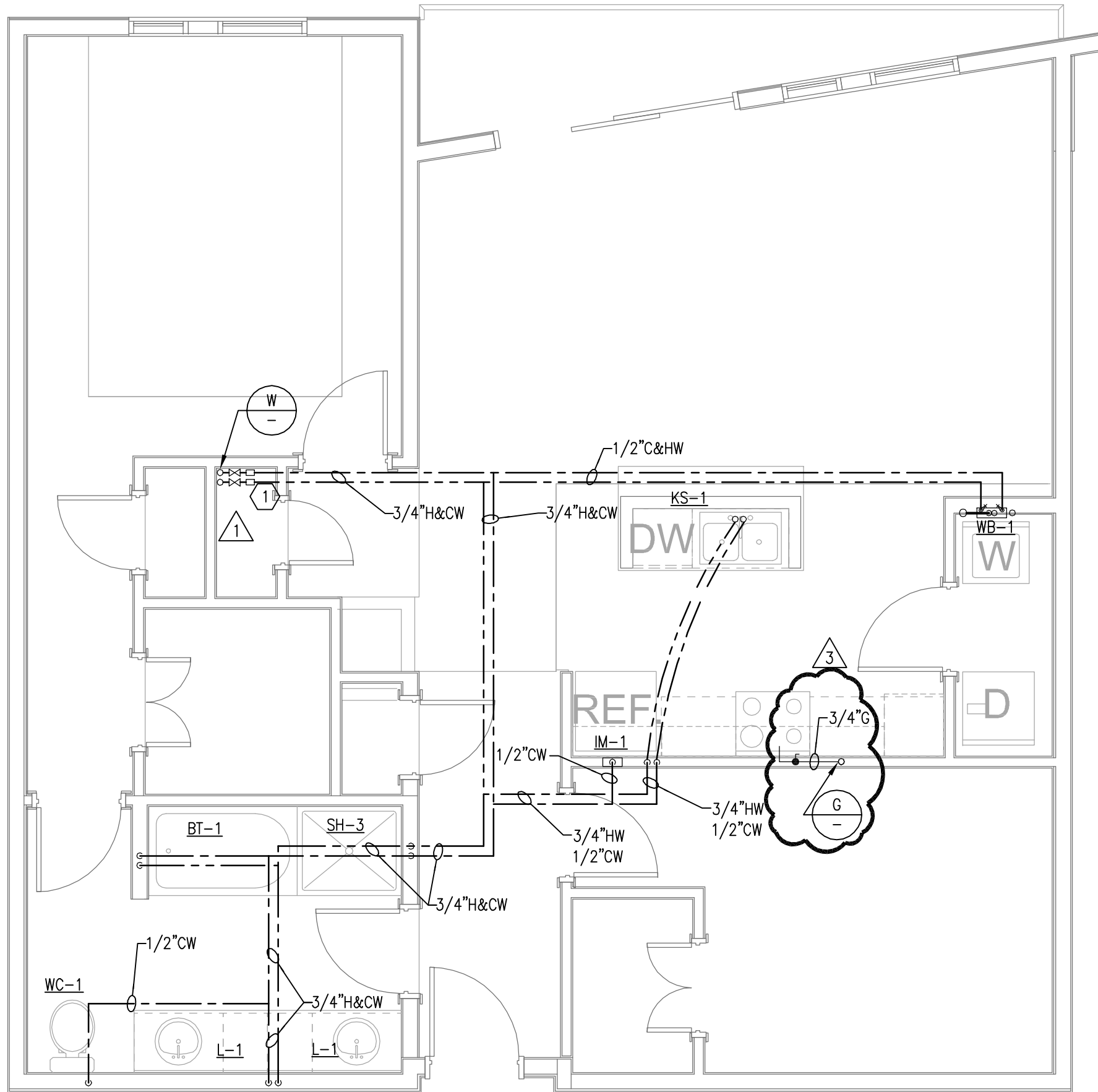
① DOMESTIC HOT/COLD WATER METER



1 UNIT A3
P5.02 1/4"=1'-0"



2 UNIT A3-ALT
P5.02 1/4"=1'-0"



3 UNIT A4
P5.02 1/4"=1'-0"

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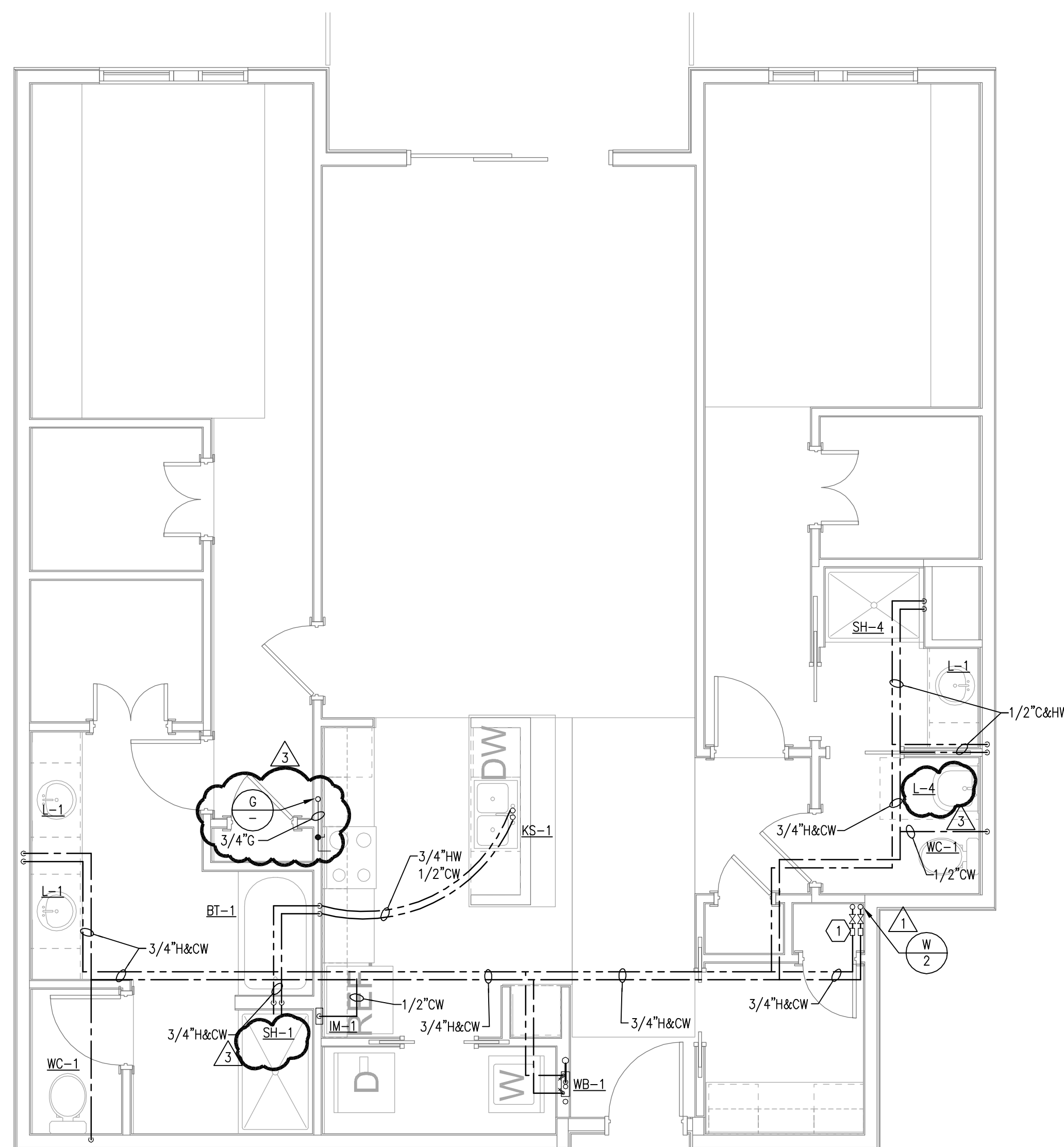
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UNIT PLANS
B1, B2, B2-ALT & B3
- PLUMBING

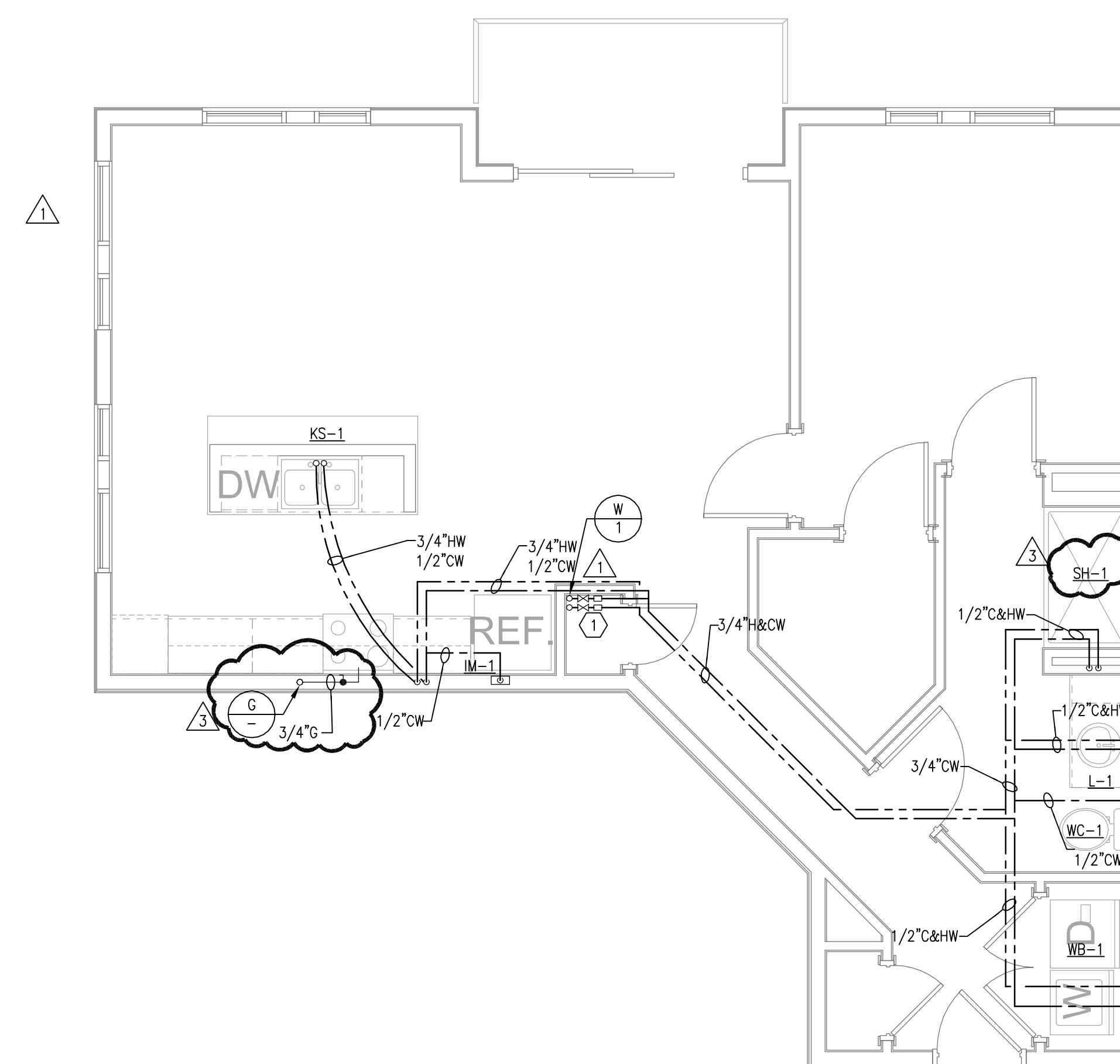
P5.03

03/18/2014

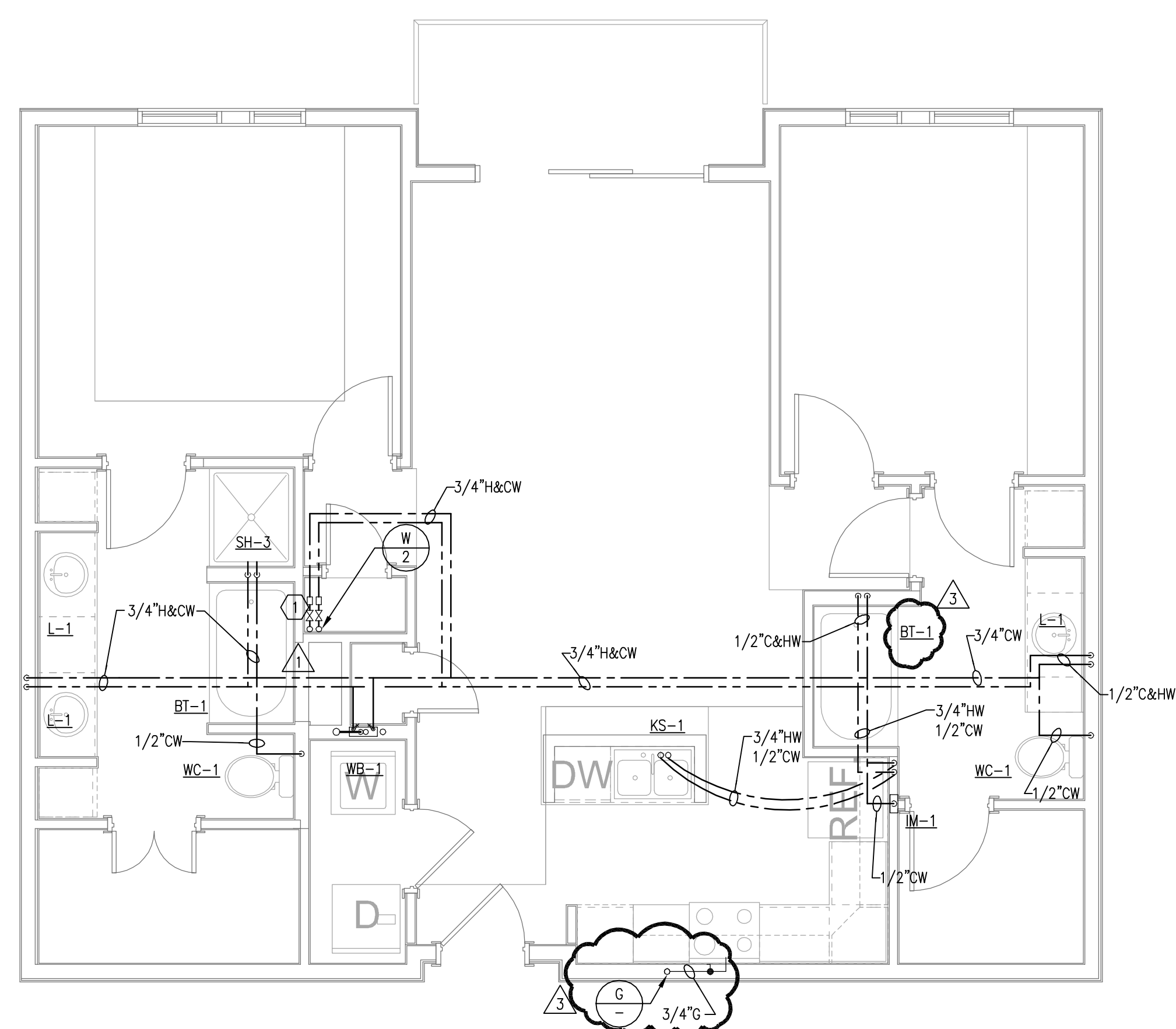
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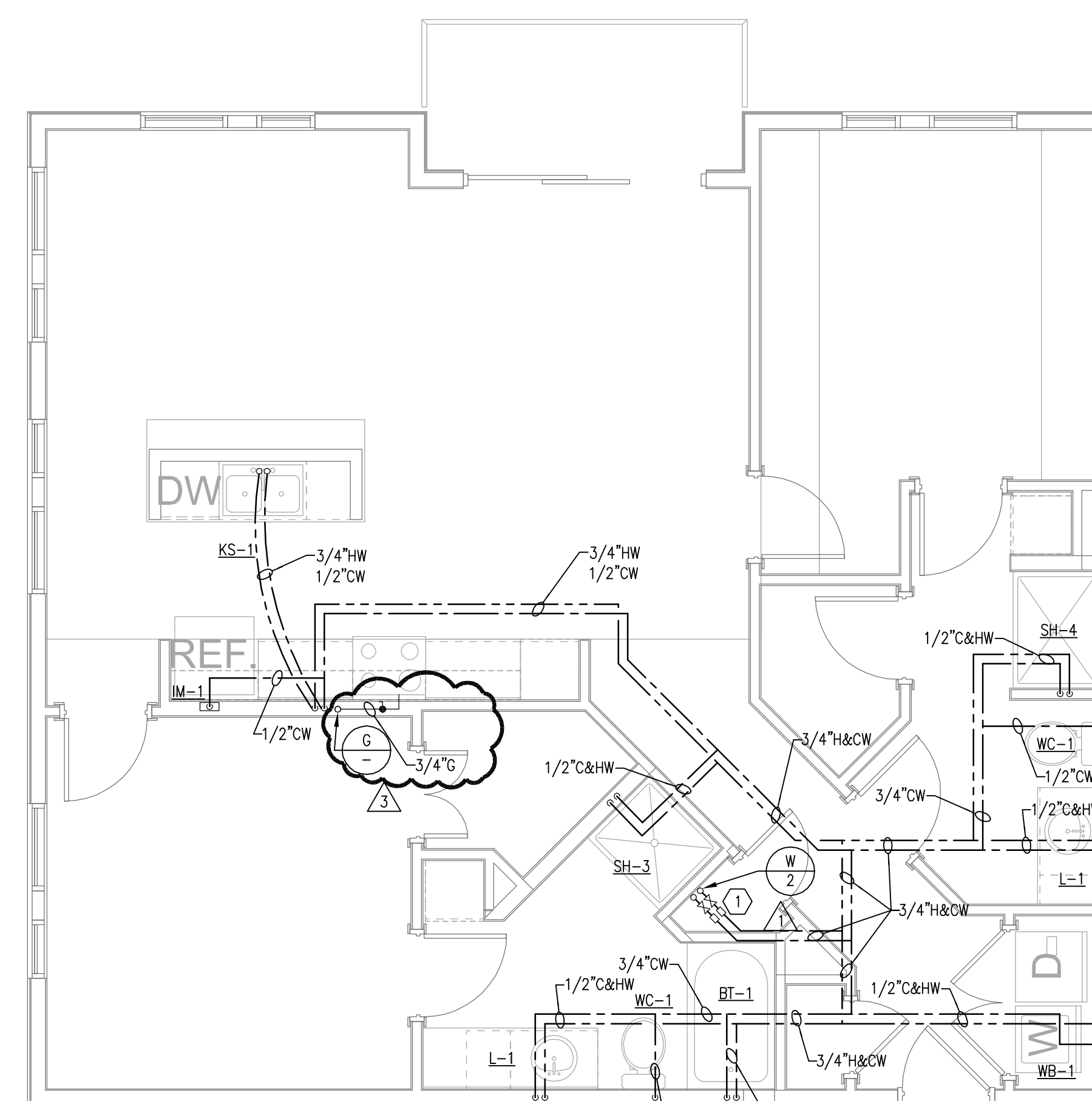
4 UNIT B3
P5.03 1/4"=1'-0"



3 UNIT B2-ALT
P5.03 1/4"=1'-0"



1 UNIT B1
P5.03 1/4"=1'-0"



2 UNIT B2
P5.03 1/4"=1'-0"

1 DOMESTIC HOT/COLD WATER METER

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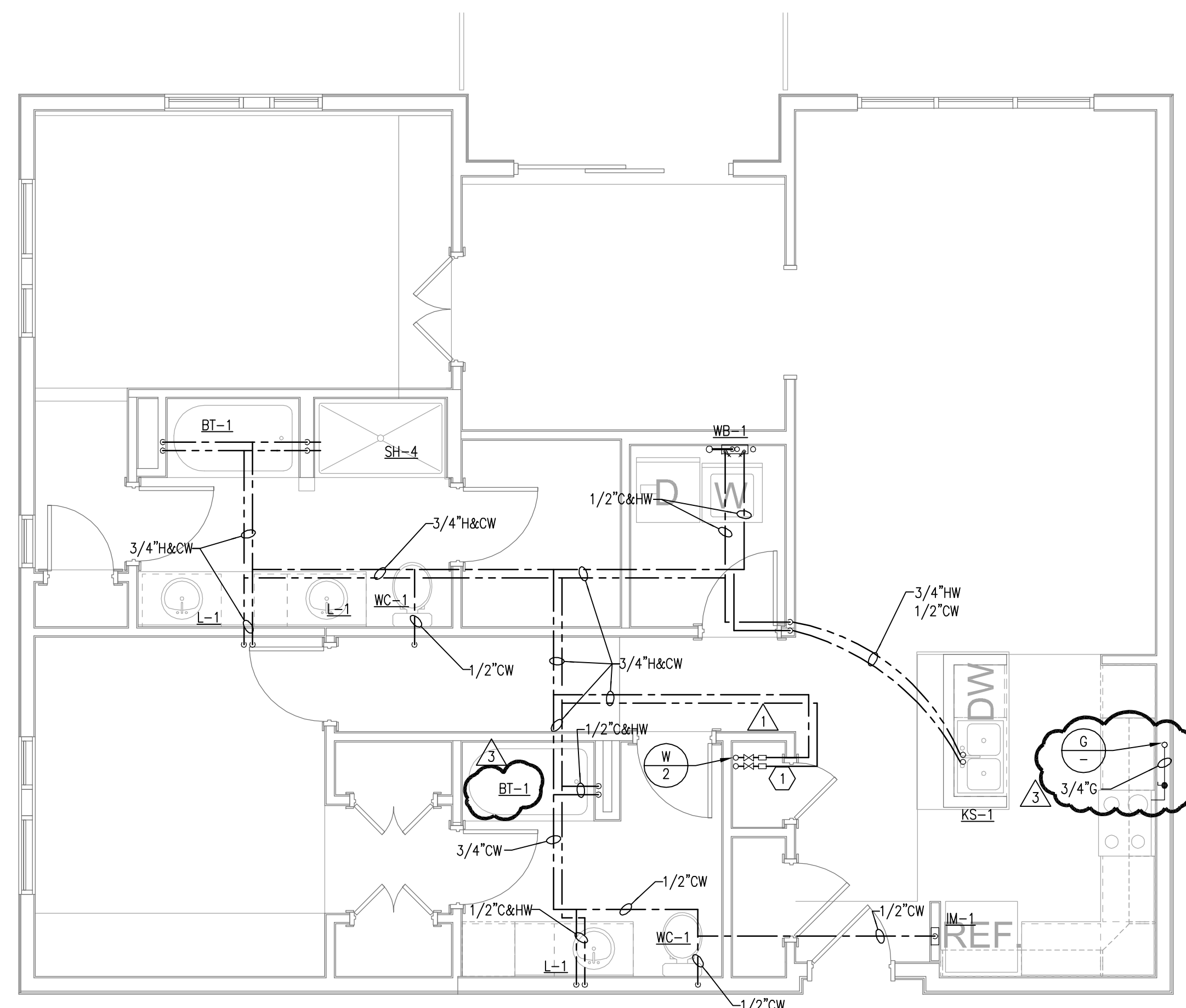
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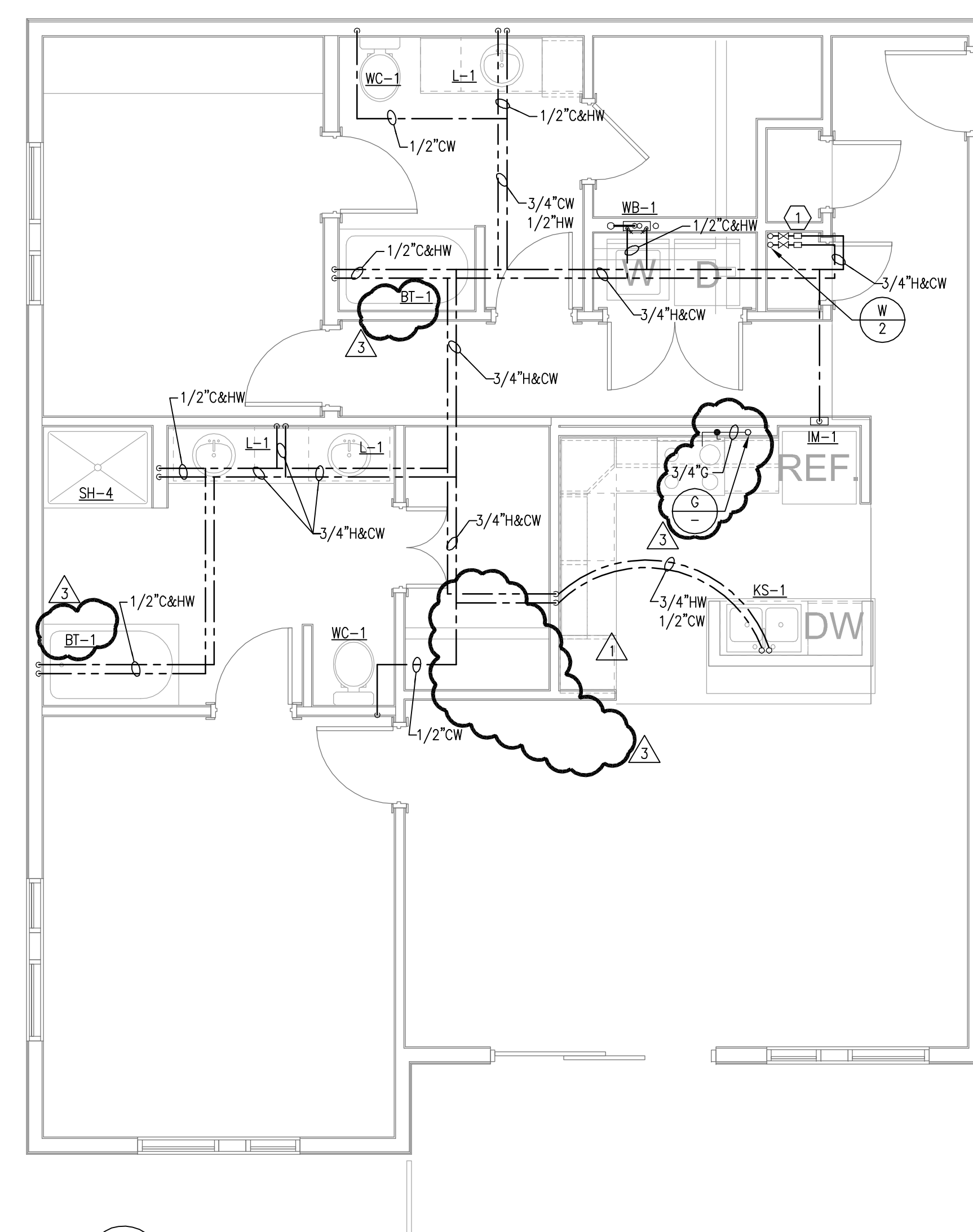
UNIT PLANS
C1, C2 & C3 - PLUMBING

P5.04

03/18/2014



2 UNIT C2
P5.04 1/4"=1'-0"

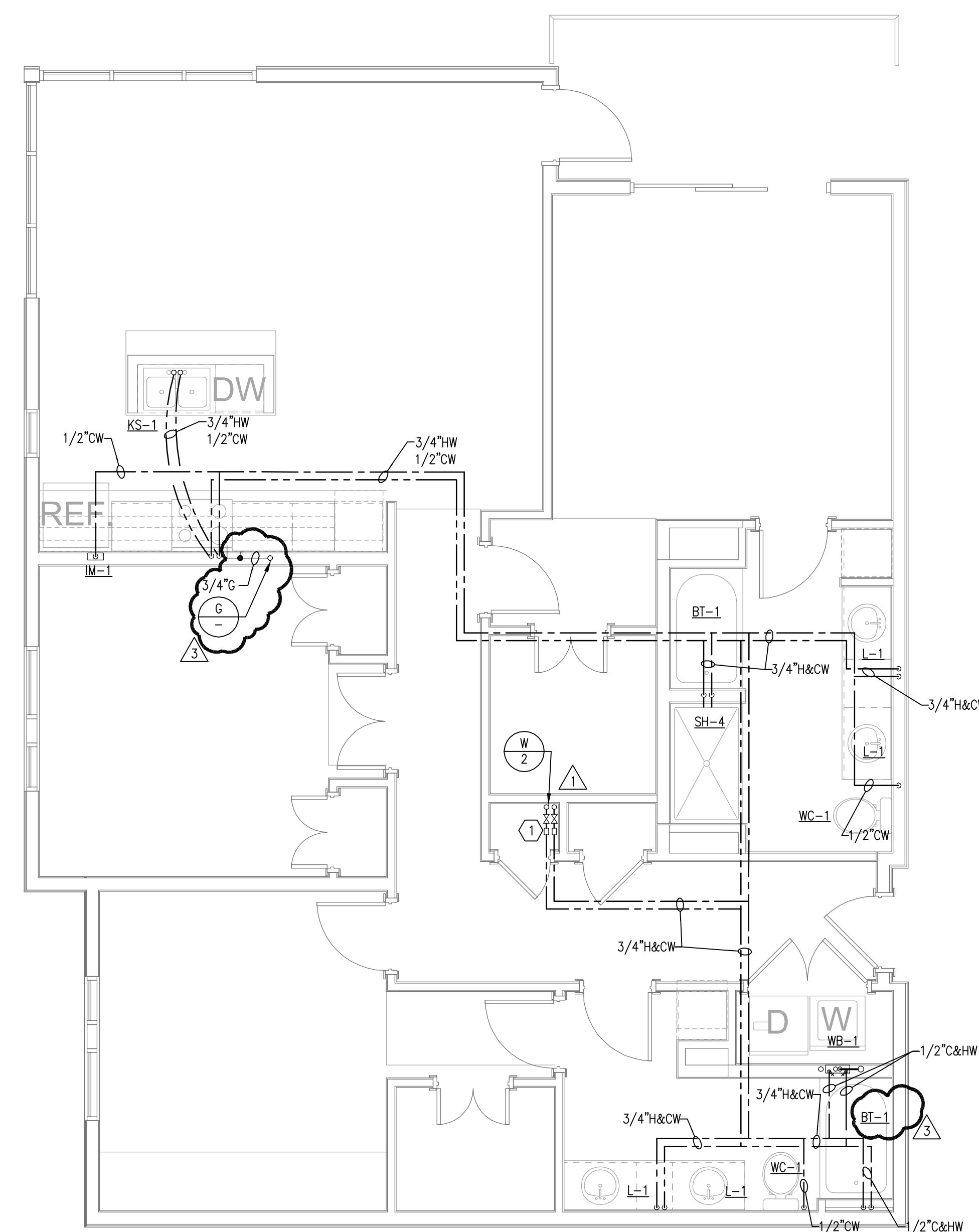


1 UNIT C1
P5.04 1/4"=1'-0"

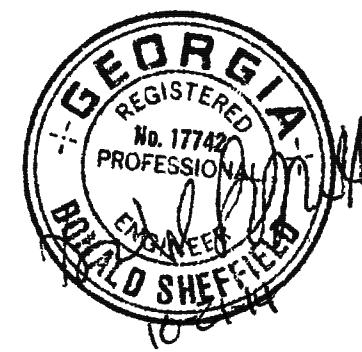
REFER TO BUILDING FLOOR PLANS
FOR ROUTING OF SANITARY PIPING.
PLUMBING SHEETS P2.01 - P2.05.

PLUMBING KEY NOTES:

1 DOMESTIC HOT/COLD WATER METER



3 UNIT C3
P5.04 1/4"=1'-0"



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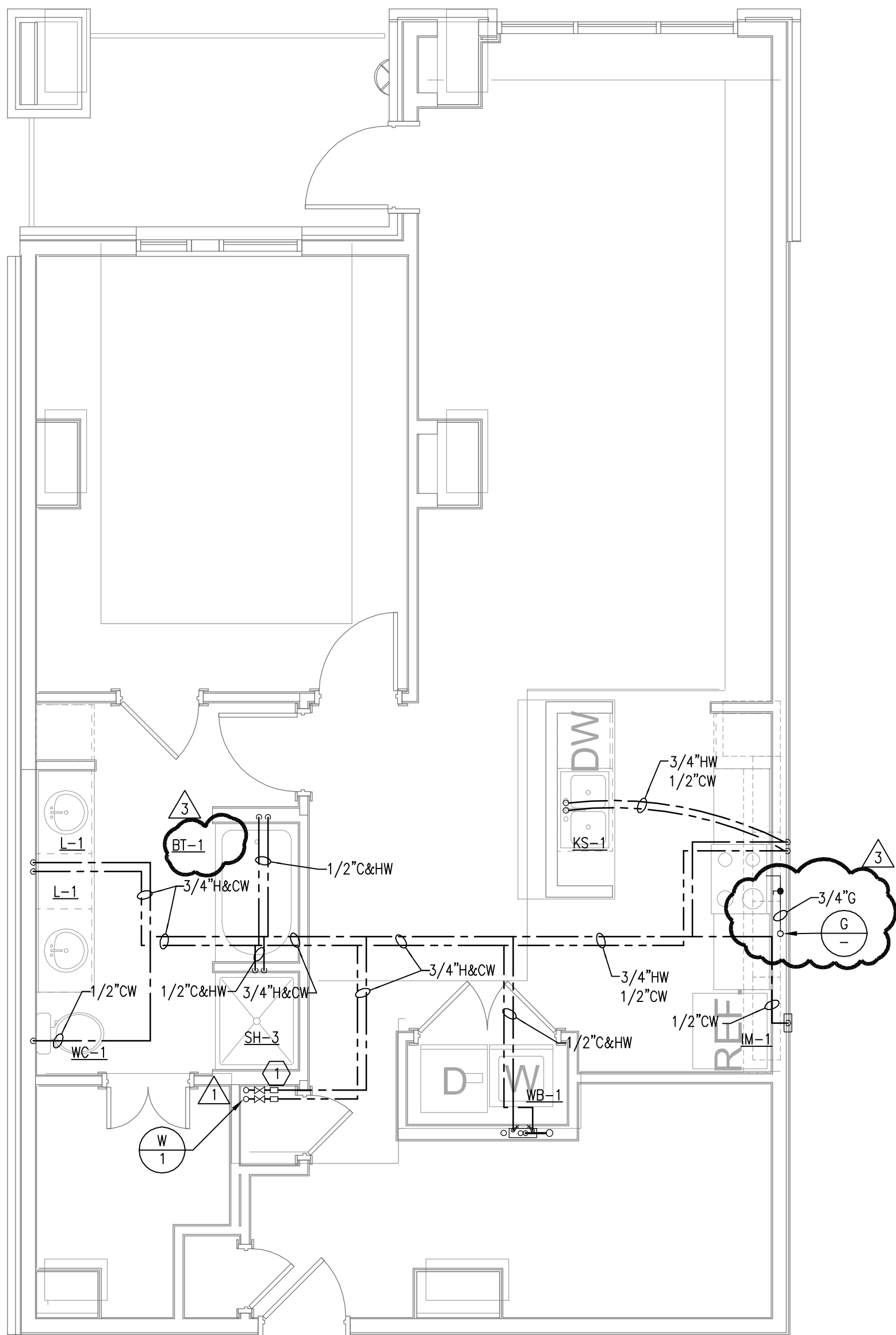
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**UNIT PLANS
D1 & D1-ALT - PLUMBING**

P5.05

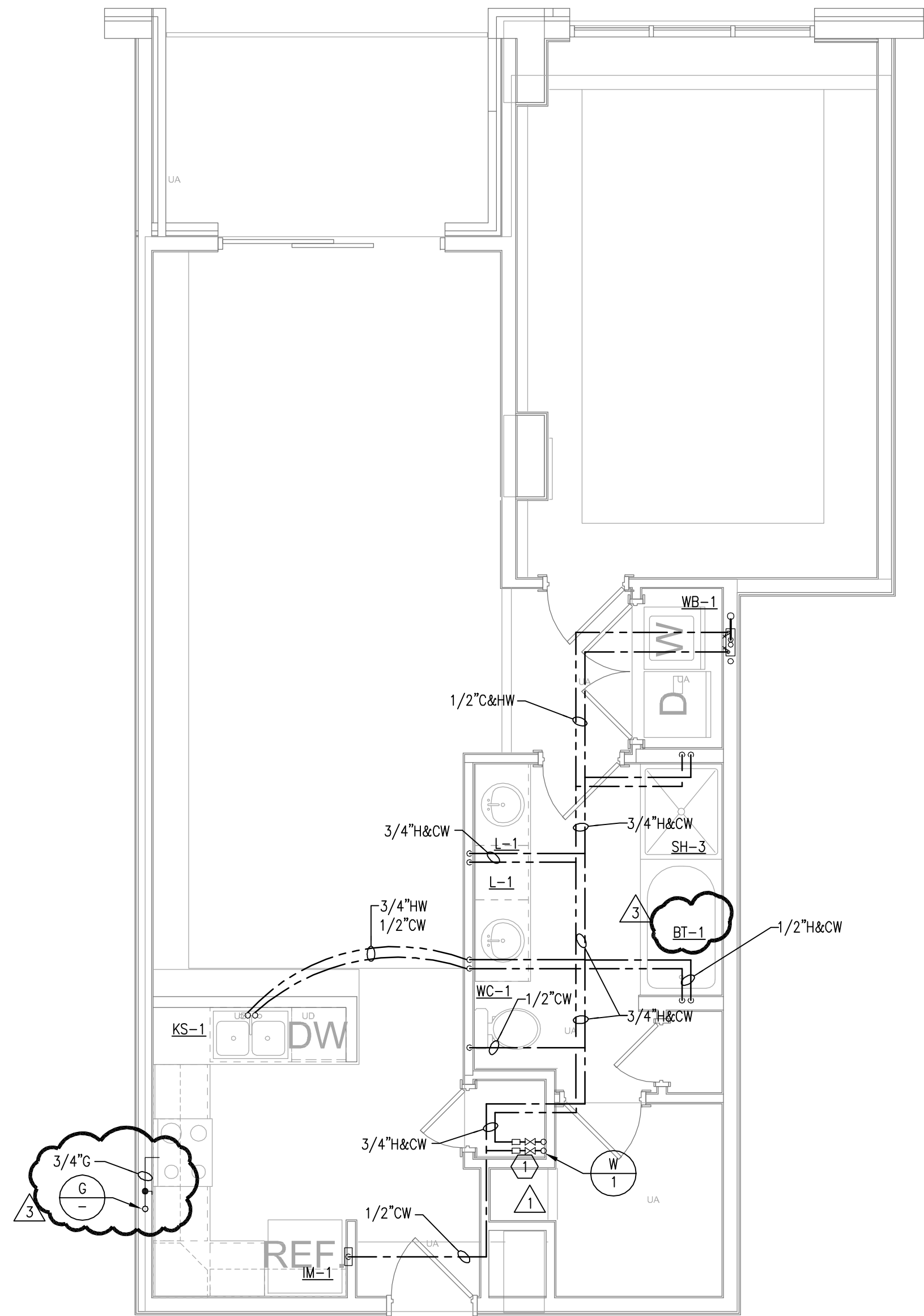
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REFER TO BUILDING FLOOR PLANS
FOR ROUTING OF SANITARY PIPING.
PLUMBING SHEETS P2.01-2.05.

PLUMBING KEY NOTES:
① DOMESTIC HOT/COLD WATER METER



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UNIT PLANS
A1-ALT, C1-ALT &
C3-ALT

03/18/2014



1

1 DOMESTIC HOT/COLD WATER METER.

[illegible]

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REFER TO CIVIL DRAWING FOR
1-1/2" IRRIGATION METER AND
1-1/2" RP2 BPP LOCATIONS.
IRRIGATION METER BY OTHERS.
1-1/2" IRRIGATION WATER
TO LANDSCAPE AREAS.

GAS METER (FOR TEAL SYSTEM ONLY)
3900 CFH @ 2PSI

2" @ 2PSI UP

1-1/4" @ 2PSI TO GENERATOR

PROVIDE MAXITROL VENTLESS
GAS PRESSURE REGULATOR -
SET AT 7" W.C.

8" FIRE MAIN
SEE CIVIL FOR CONT.

FIRE SPRINKLER RISER
SEE CIVIL FOR CONT.

6" DOMESTIC WATER
SEE CIVIL FOR CONT.

FP-1 MAIN RELIEF VALVE
SET @ 175 PSI

JP-1 W/ RELIEF VALVE
8" TO 6"

6" HIGH PRESSURE
DOMESTIC WATER UP

4" SAN UP

8" SANITARY, 934 DFI
SEE CIVIL PLANS FOR CONT.
APPROX. EXISTING I.E. = 4.2' BFF.

3/4" CW UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP

4" ST UP

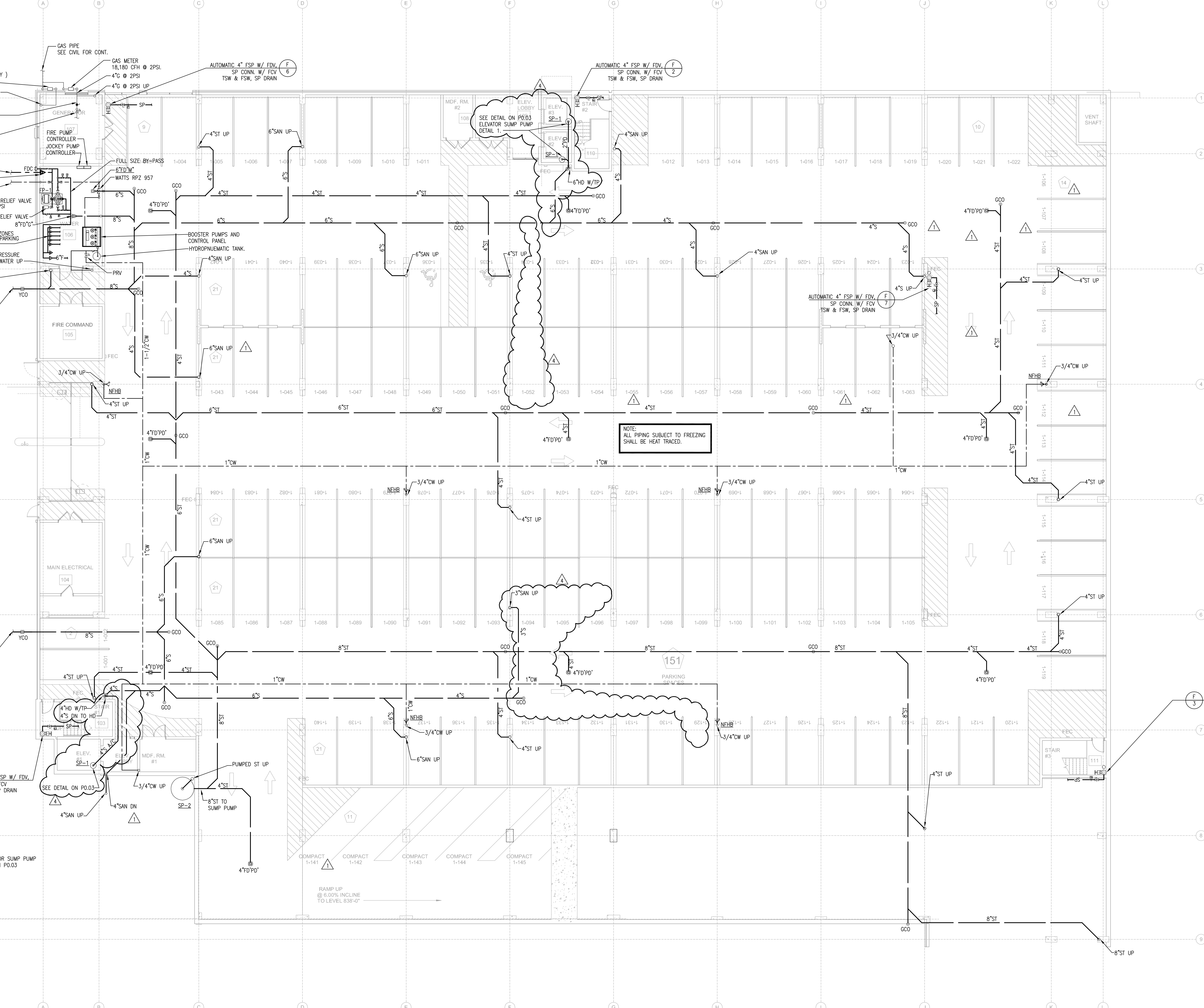
1" CW

6" SAN UP

4" ST UP

1" CW

6" SAN UP



NOTE:
ALL PIPING SUBJECT TO FREEZING
SHALL BE HEAT TRACED.

8" SANITARY, 808 DFI
SEE CIVIL PLANS FOR CONT.
APPROX. EXISTING I.E. = 3.6' BFF.

4" HD W/TP
4" S ON TO HD

4" SAN UP

4" SAN DN

3/4" CW UP

4" ST UP

8" ST TO
SUMP PUMP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

4" ST UP

1 LEVEL 1 PARKING PLAN - PLUMBING
PP2.01 3/32"x1'-0"

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PP2.01
03/18/2014

LEVEL 1 PARKING PLAN -
PLUMBING

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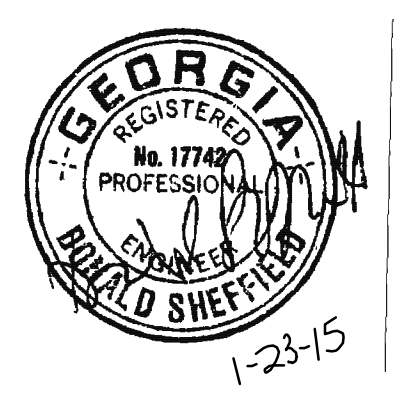
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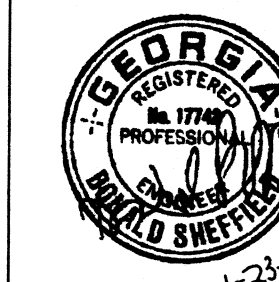
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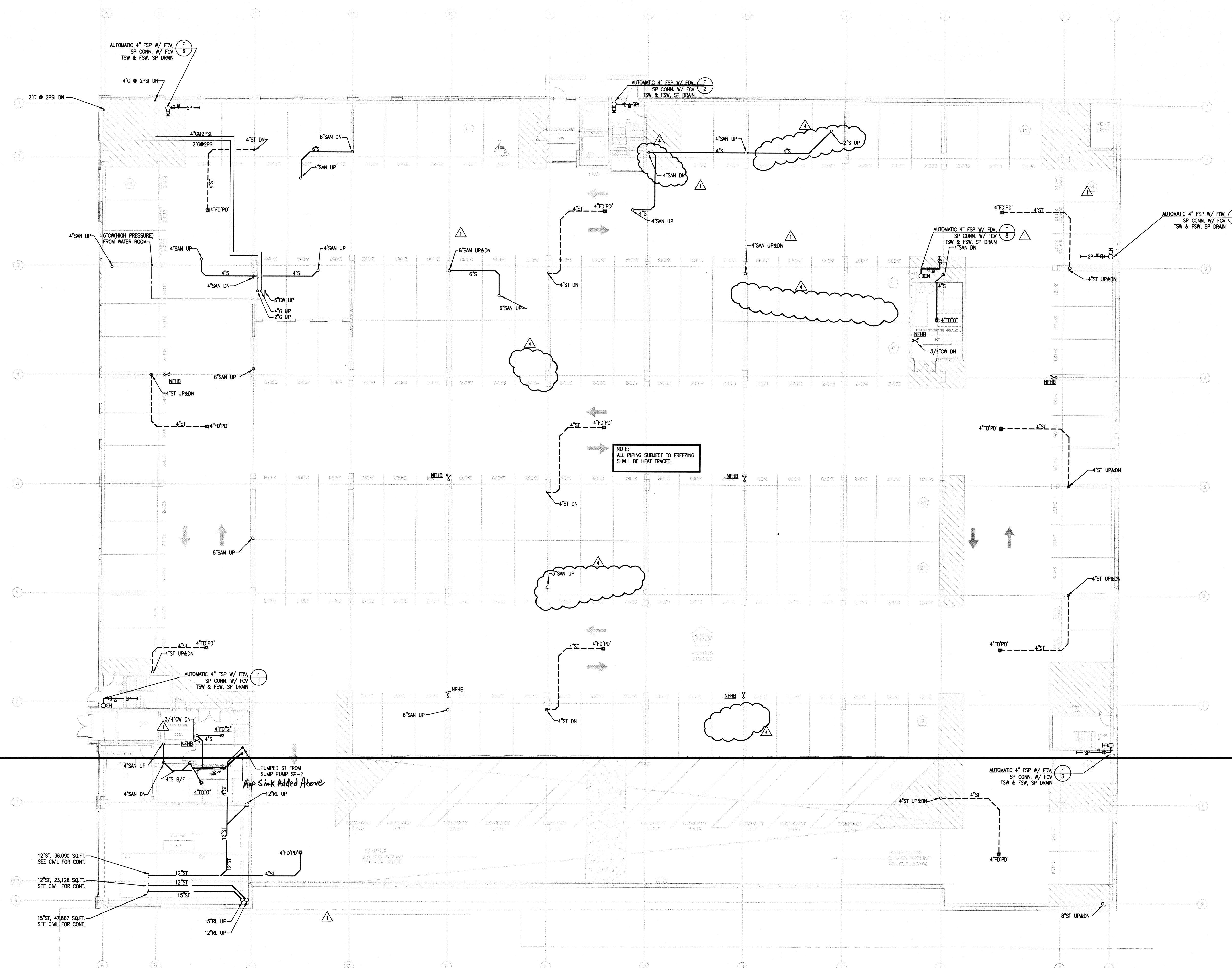
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**LEVEL 2 PARKING
PLAN - PLUMBING**

PP2.02

03/18/2014

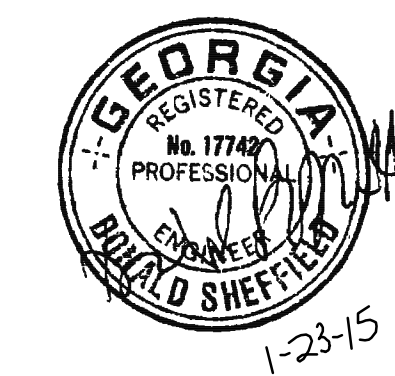
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1 LEVEL 2 PARKING PLAN - PLUMBING
PP2.02 3/32/11-0"

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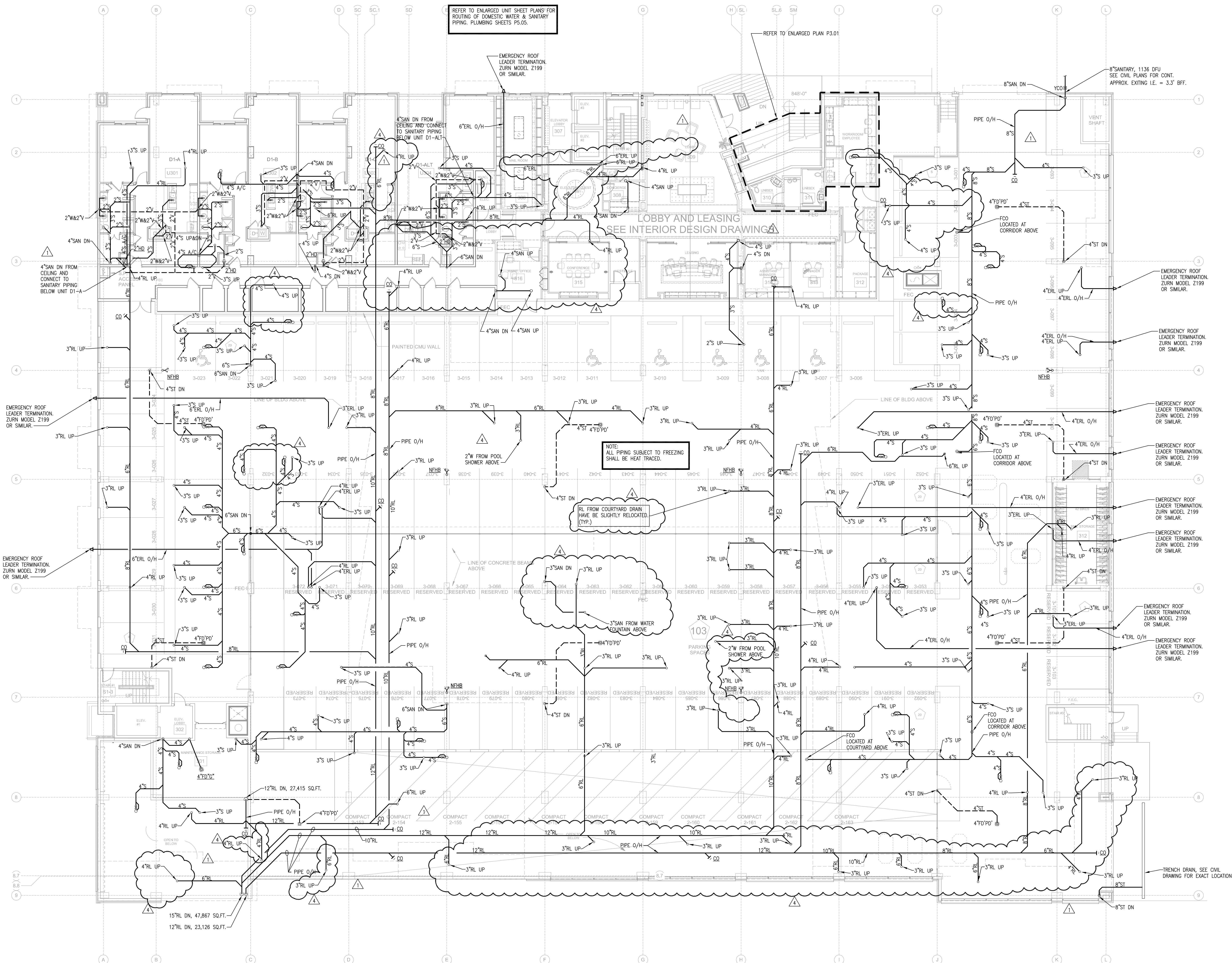
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**LEVEL 3 PARKING
PLAN - SANITARY**

PP2.03A

03/18/2014

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1 LEVEL 3 PARKING PLAN - SANITARY
PP2.03A 3/18/2014



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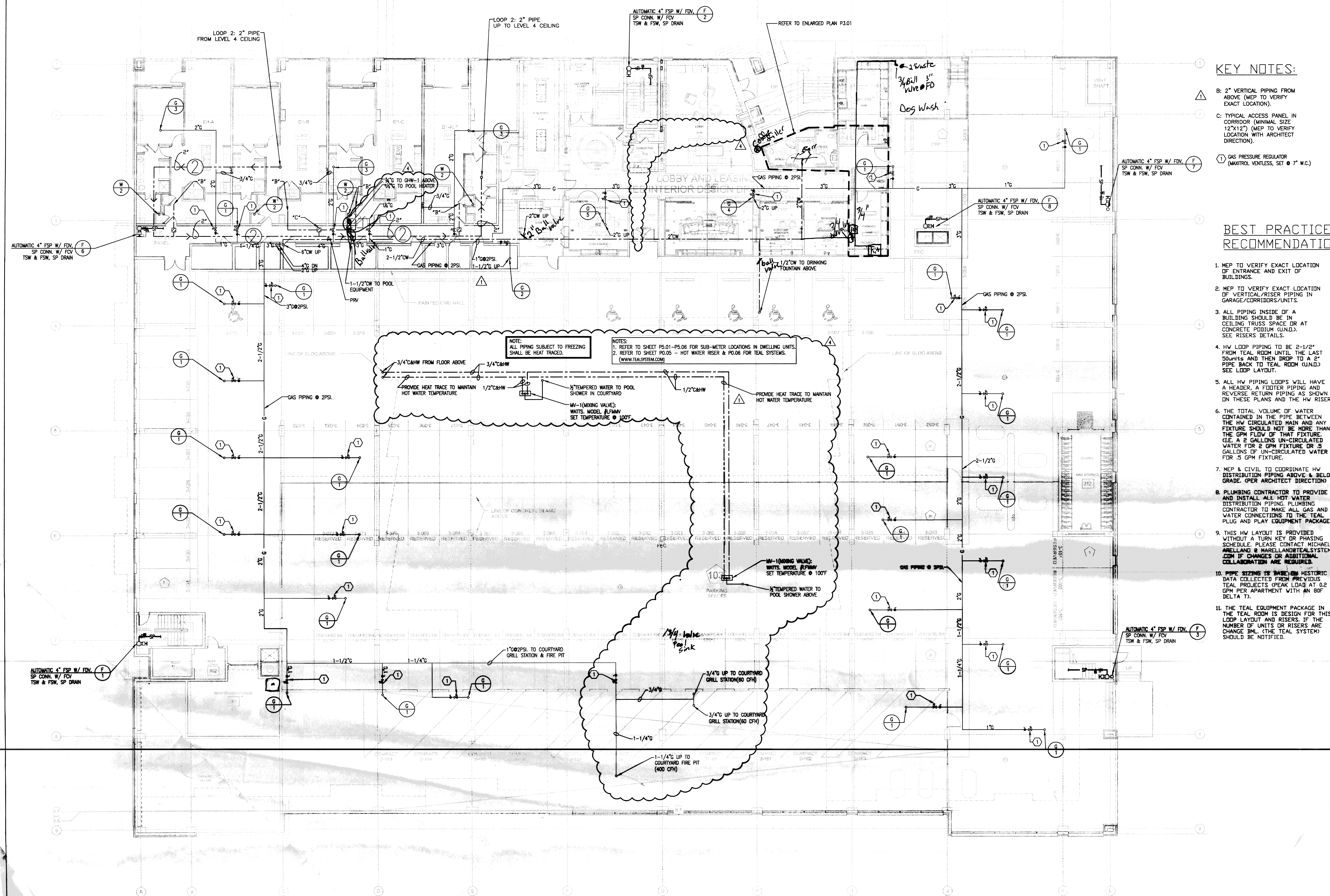
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**LEVEL 3 PARKING -
WATER & GAS**

PP2.03E

3



1 LEVEL 3 PARKING - WATER & GAS
PP2.03B 3/32"=1'-0"

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PP2.03E