PLUMBING GENERAL NOTES:

PART 1 - GENERAL AND RELATED DOCUMENTS

DRAWING AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION—1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.

WORK INCLUDED: THE PLUMBING SYSTEM FOR THIS WORK INCLUDES ALL NATURAL GAS, COLD WATER DISTRIBUTION, DOMESTIC WATER HEATING AND DISTRIBUTION, VENTS AND WASTES, FLOOR DRAIN, EQUIPMENT, PLUMBING FIXTURES AND TRIM, AND ALL OTHER PLUMBING ITEMS INDICATED ON THE DRAWINGS OR DESCRIBED IN THESE SPECIFICATIONS, PLUS ALL OTHER PLUMBING ITEMS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

CODES ANS STANDARDS: IN ADDITION TO COMPLYING WITH ALL PERTINENT CODES AND REGULATIONS, COMPLY WITH THE FOLLOWING:

LOCAL GAS, MECHANICAL, AND THE PLUMBING CODE LATEST EDITIONS;

INCLUDING LOCAL AMENDMENTS.

LOCAL UTILITY COMPANIES REGULATIONS.

THE FEDERAL ACT DATED JULY 26, 1990, AMERICAN WITH DISABILITIES ACT (ADA)
THE FEDERAL MINIMUM ENERGY POLICY AND CONSERVATION ACT OF 1992 (EPACT)

PRODUCT DATA: WITHIN 15 CALENDAR DAYS AFTER AWARD OF CONTRACT, SUBMIT COMPLETE MATERIALS LIST OF ALL ITEMS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION, ALONG WITH CATALOG CUTS AND OTHER DATA REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

OPERATION AND MAINTENANCE MANUAL: UPON COMPLETION OF THE WORK, AND AS A CONDITION OF ITS ACCEPTANCE, COMPILE AND SUBMIT MANUALS AS REQUIRED.

PRODUCT HANDLING / PROTECTION: USE ALL MEANS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE WORK AND MATERIALS OF ALL OTHER TRADES.
REPLACEMENT: IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

PART 2 - PRODUCTS

PIPE — SOIL, WASTE, AND VENTS IN BUILDING SHALL BE SCHEDULE 40 P.V.C. WITH SOLVENT WELD CONNECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWING.

DOMESTIC WATER PIPING: ALL HOT AND COLD WATER PIPING, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SHALL BR HARD-DRAWN COPPER TUBE EQUALING OR EXCEEDING THE QUALITY OF "REYNOLDS", MADE UP WITH WROUGHT OR FORGED COPPER FITTINGS AND 95-5 TIN ANTIMONY SOLDER. BELOW-GRADE AND BELOW-SLAB COPPER PIPE SHALL BE TYPE "K", ALL OTHER COPPER PIPING SHALL BE TYPE "L". NO JOINTS OR CONNECTION SHALL BE MADE IN OR BELOW THE SLAB. REFER TO LOCAL CODE FOR ANY OTHER REQUIREMENTS FOR TYPE OF MATERIALS APPROVED AND METHODS OF JOINING.

NATURAL GAS PIPING: ALL GAS PIPING BELOW GRADE SHALL BE BLACK STEEL PIPE, PLASTIC COATED, WITH WELDED FITTINGS AND JOINTS. ALL GAS PIPING ABOVE GRADE, 3" (INCH) AND LARGER SHALL BE BLACK STEEL PIPE WITH WELDED FITTINGS AND JOINTS; 2-1/2" (INCH) AND SMALLER SHALL BE THREADED BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS

PIPE WRAPPING: WRAP ALL PIPE BURIED IN THE GROUND, AND OTHER PIPE WHERE SO NOTED ON THE DRAWING, WITH "SCOTCHRAP". WRAP ALL STRAIGHT RUNS WITH 0.020—INCH THICK TAPE, APPLIED IN HALP—LAP LAYERS. PRE—WRAP ALL JOINTS, VALVES AND SIMILAR IRREGULAR SURFACES USING 0.010—INCH THICK TAPE.

VALVES: ALL VALVE DESIGN IS BASED ON THE USE OD "WALWORTH" IN THE MODEL SHOWN BELOW. PROVISE VALVES EQUALING AND EXCEEDING THE QUALITY OF THOSE UPON WHICH

BASED.			
TYPE	SIZE RANGE:	PART	NUMBER:
GATE	3" AND SMALLER	3	
GLOBE	2" AND SMALLER	95	
CHECK	2" AND SMALLER	412	
GAS COCK	1" AND SMALLER	597	
GAS COCK	1 1/4" AND LARGER	655	& 7904
WRFNCH-CHANG	GED FOR USE WITH FACH	COCK	

VALVE BOXES: ALL VALVE BOXES, UNLESS OTHERWISE SHOWN ON THE DRAWING, SHALL EQUAL THE QUALITY OF "FOMI", TRAFFIC TYPE, OF THE REQUIRED DEPTH, AND SHALL HAVE LOCK TYPE CAST IRON COVERS LABELED WATER OR GAS AS REQUIRED.
PIPE SLEEVES AND ESCUTCHEONS: ALL PIPE SLEEVES AND ESCHTCHEONS SHALL EQUAL OR EXCEED THE QUALITY OF "ADJUSTO—CRETE", SHALL HAVE AMPLE CLEARANCE FOR PIPE AND COVERING, AND SHALL HAVE CHROME PLATED WALL AND FLOOR ESCUTCHEONS OVER THE PIPE IN FINISHED AREAS.

HANGERS AND SUPPORTS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SHALL EQUAL OR

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EXCEED THE QUALITY OF THE FOLLOWING:
                                MANUFACTURER & MODEL NO.
           ITEM:
         PIPE RING HANGER
SIDE BEAM CLAMP
                               GRINNEL 107F
                                GRINNEL 202
                               SUPERSTRUT A1200
           TRAPEZE HANGERS
          VERTICAL RISER
                                GRINNEL 261
HANGER RODS SHALL CONFORM TO THE FOLLOWING:
                                    ROD DIAMETER:
           PIPE SIZE:
          1/2 " TO 2"
                                        3/8
          2 1/2 " TO 3 1/2 "
                                        1/2 "
          4" TO 5"
                                        5/8 '
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AT THE CONTRACTOR'S OPTION, TRAPEZE HANGERS MAY BE USED WHERE PARALLEL RUNS OF PIPE OCCURS. ALL RODS ON TRAPEZE HANGERS SHALL BE 1/2" MINIMUM.

VENT FLASHING: PROVIDE VENT FLASHING AT EACH VENT THROUGH THE ROOF, EQUAL TO OR EXCEEDING THE QUALITY OF "SEMO" NUMBER 1100-2 FLASHING AND COUNTER FLASHING.

SHOCK ABSORBERS: PROVIDE 12" HIGH AIR CHAMBER AT EACH FIXTURE ON BOTH HOT AND COLD WATER. SIZE TO BE THE SAME AS BRANCH LINE AT POINT OF TEE UPWARD.

CLEANOUT: PROVIDE CLEANOUTS EQUALING OR EXCEEDING THE QUALITY OF THE FOLLOWING: FLOOR CLEANOUT: J.R. SMITH # 4016

GRADE CLEATOUR: J.R. SMITH #4011 WITH ROUND FRAME & COVER.
ALL EXPOSED PARTS OF FLOOR CLEANOUTS IN FINISHED AREAS SHALL BE SCORIATED NICKEL BRONZE. ALL OTHER INTERIOR CLEANOUTS SHALL BE POLISHED SCORIATED BRONZE. ALL GRADE CLEANOUTS SHALL HAVE ROUGH SCORIATED BRONZE COVERS.

ISOLATE ALL DISSIMILAR METALS WITH ISOLATORS EQUALING OR EXCEEDING THE QUALITY OF "EPCO" DIELECTRIC UNIONS.
FLOOR DRAINS: PROVIDE FLOOR DRAINS EQUALING OR EXCEEDING THE QUALITY OF J.R.

FLOOR DRAINS: PROVIDE FLOOR DRAINS EQUALING OR EXCEEDING THE QUALITY OF J.R. SMITH FIGURE 2010—A, 2" SIZE, WITH 5" DIAMETER STRAINER AND PROVIDE TRAP PRIMER IF PRIMER IS REQUIRED BY CODE, SMITH 2699 TRAP PRIMER. ON ANY FLOOR DRAIN THAT HAS A PIPE DRAINING INTO IN, PROVIDE FUNNEL #3580. ROOMS WITH WATER CLOSETS SHALL HAVE A 3" FLOOR DRAIN.

PIPING INSULATION
ALL HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK (MIN.) INSULATION HAVING A CONDUCTIVITY
NO GREATER THAN 0.28 BTU-IN/(H-FT2-DEGREE F).
ALL COLD WATER PIPING CONCEALED ABOVE CEILINGS, IN ATTICS AND CONCEALED IN EXTERIOR WALLS
SHALL BE INSULATED WITH 1" THICK (MIN.) INSULATION HAVING A CONDUCTIVITY NO GREATER THAN
0.28 BTU-IN/(H-FT2-DEGREE F).
ALL EXPOSED EXTERIOR COLD WATER PIPING SHALL BE INSULATED AS SPECIFIED ABOVE AND HAVE
ALUMINUM JACKETING APPLIED OVER INSULATION.

ACCESS PLATES: PROVIDE ACCESS PLATES EQUALING OR EXCEEDING THE QUALITY OF SMITH # 4760, PRIME COATED STEEL FOR PAINTED WALLS, WITH ALLEN KEY LOCKING DEVICES. EACH GUEST ROOM SHALL HAVE A SINGLE HOT AND COLD WATER VALVE THAT CAN CUT OFF ALL HOT AND COLD WATER TO THE ROOM WITHOUT CUTTING OFF WATER TO ANY OTHER GUEST ROOM.

OTHER MATERIAL: ALL OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK OF THIS SECTION, SHALL BE NEW, FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND AS SELECTED BY THE ARCHITECT. INSPECTION: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE INSTALLED. CORRECT CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

PLUMBING SYSTEM LAYOUT: LAYOUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATIONS FOR ALL COMPONENTS OF THE SYSTEM AND USING ONLY THE MINIMUM NUMBER OF BENDS TO PRODUCE A SATISFACTORY FUNCTIONING SYSTEM. FOLLOW THE GENERAL LAYOUT SHOWN ON THE DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE. LAYOUT ALL PIPES TO FALL WITHIN PARTITION, WALLS, OR ROOF CAVITIES, AND TO NOT REQUIRE FURRING OTHER THAN AS SHOWN ON THE DRAWINGS.

TRENCHING AND BACKFILLING: GENERAL— DIG TRENCHES STRAIGHT AND TRUE TO LINE AND GRADE, WITH BOTTOM OF TRENCH FREE FROM ROCK POINTS AND WITH PIPE CUSHION CONSISTING OF EITHER UNDISTURBED NATURAL SOIL OR COMPACTED FINE SAND. PROVIDE A MINIMUM TRENCH OF 16" FOR MAIN SOIL AND DRAINAGE PIPE, AND A MINIMUM OF 24" COVER BELOW FINISHED GRADE WHEREVER CONDITIONS WILL PERMIT. WHERE CONDITIONS REQUIRE VARIANCE FROM THESE MINIMUMS, SECURE ARCHITECT'S APPROVAL BEFORE PROCEEDING WITH THE VARIANCE. PERFORM ALL SUCH VARIANCES AT NO ADDITIONAL COST TO THE OWNER.

BACKFILLING: BACK FILL PROMPTLY UPON RECEIPT OF ALL NECESSARY VARIANCES, USING STOCKPILED MATERIAL EXCAVATED FROM THE TRENCH, OR USING OTHER MATERIAL APPROVED BY THE ARCHITECT. ALL BACKFILL MATERIAL SHALL BE FREE FROM ROCKS, LARGE CLODS, ROOTS, AND OTHER FOREIGN MATTER, AND SHALL BE COMPACTED IN 6" LAYERS TO A MINIMUM OF 95 PERCENT COMPACTION. JETTING OF BACKFILL WILL NOT BE PERMITTED.

INSTALLATION, GENERAL: DO NOT CUT INTO OR REDUCE THE SIZE OF ANY LOAD—CARRING STRUCTURAL MEMBER WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. INSTALL ALL PIPES TO CLEAR ALL BEAMS AND OBSTRUCTIONS AND IN ACCORDANCE WITH THE FOLLOWING:

- 1. INSTALL ALL PIPING PROMPLY, CAPPING OR PLUGGING ALL OPEN ENDS.
 2. INSTALL ALL PIPING GENERALLY LEVEL AND PLUMB, FREE FROM TRAPS,
- INSTALL ALL PIPING GENERALLY LEVEL AND PLUMB, FREE FROM TRAPS, AND IN A MANNER TO CONSERVE SPACE FOR OTHER WORK.
 CUSHION ALL TRAPS AND BEARING TO MINIMIZE TRANSFER OF SOUND. PROVIDE COMPLETE ISOLATION OF ALL DISSIMILAR METALS. FIRMLY

PROMPTLY REMOVE ALL EXCESS EXCAVATED MATERIAL FROM THE SITE.

- ANCHOR ALL PIPES INTO POSITION.

 4. PROVIDE UNIFORM PIPCH OF AT LEAST 1/4 INCH PER FOOT FOR ALL HORIZONTAL WASTE AND SOIL PIPING WITHIN THE BUILDING. PITCH ALL VENTS FOR PROPER DRAINAGE. INSTALL VENT PIPING WITH EACH BEND 45 DEGREES MINIMUM FROM THE HORIZONTAL WHEREVER
- STRUCTURAL CONDITIONS WILL PERMIT.

 5. PROVIDE AIR CHAMBERS OR WATER HAMMER ARRESORS ON HOT AND COLD WATER
- AT THE FIXTURES.

 6. CONCEAL ALL PIPING UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

 7. INSPECT EACH PIECE OF PIPE, COUPLINGS, FITTINGS, AND EQUIPMENT FOR DEFECTS AND OBSTRUCTIONS. PROMPTLY REMOVE ALL DEFECTIVE
- MATERIAL FROM THE SITE.

 8. PLUMBER SHALL CUT ALL HOLES IN CABINETS FOR LAVATORIES, SINKS AND FAUCETS.

JOINTS AND CONNECTIONS: PREPARATION — PROPERLY REAM ALL CUT PIPE. CUT ALL THREADS STRAIGHT AND TRUE. APPLY BEST QUALITY TEFLON TAPE TO MALE PIPE THREADS, BUT NOT TO INSIDE OF FITTINGS. USE GRAPHITE ON ALL CLEANOUT PLUGS. PACKING: PACK ALL JOINTS IN CAST IRON SOIL AND WASTE PIPE AND FITTINGS, USING OAKUM, AND SECURING WITH ONE INCH DEEP CAULKING OF LEAD. FULLY AND PROPERLY CAULK AND FINISH.

COPPER: MAKE ALL JOINTS IN COPPER TUBING WITH 95-5 TIN-ANITOMY SOLDER, APPLIED IN STRICT ACXCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

PVC: MAKE ALL JOINTS IN PVC PIPING WITH PROPER JOINT CEMENT, APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

SUPPORTING: USE A SEPERATE HANGER FOR EACH BRANCH. SUPPORT VERTIVAL RISERS AT THE FLOOR WITH THE EXTENSION PIPE CLAMPS APPROVED BY THE ARECHITECT. WHEREVER INSULATED PIPE IS SUPPORTED BY RING HANGERS, THE RINGS SHALL PASS FREELY AROUND THE INSULATION AT POINT OF CONTACT WITH SADDLES APPROVED BY THE ARCHITECT.

SLEEVING, SEALING, ESCUTHEONS AND FIRE SAFING:
ALL PIPING THROUGH ALL INTERIOR AND EXTERIOR WALLS SHALL BE SLEEVED.
ANNULAR SPACE BETWEEN PIPING AND SLEEVE SHALL BE SEALED WATERTIGHT WITH NON—HARDENING COMPOUND (WHERE WALLS ARE NOT FIRE RATED) OR FIRE SAFING (WHERE WALLS ARE FIRE RATED).
SLEEVE AND FIRE SAFING SHALL MAINTAIN FIRE RATING OF WALL ASSEMBLY.
EACH END OF SLEEVE SHALL BE FITTED WITH TWO PIECE CHROME PLATED ESCUTHEON PLATE.

WATER HAMMER ABSORBING DEVICES
EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH AIR CHAMBERS OR LISTED MECHANICAL DEVICES
ON BOTH THE COLD WATER AND HOT WATER CONNECTIONS TO THE FIXTURE.
ALL QUICK ACTING VALVES SHALL HAVE LISTED MECHANICAL DEVICES INSTALLED AS CLOSE AS POSSIBLE
TO THE QUICK ACTING VALVE AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S
INSTRUCTIONS. AIR CHAMBERS SHALL BE SIZED AND INSTALLED AS PER SECTION 609.10 OF UNIFORM
PLUMBING CODE. LISTED MECHANICAL DEVICES SHALL BE PDI APPROVED.

INSTALLATION

COLD WATER PIPING: COAT ALL COLD WATER PIPING CONCEALED WITHIN THE WALL AND CEILING, USING THE SPECIFIED PLASTIC COATING TO A MINIMUM THICKNESS OF 1/16", AND APPLYING IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. HOT WATER PIPING: INSULATE ALL HOT WATER PIPING WITH THE SPECIFIED INSULATION, APPLYING IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS, AND: TIGHTLY BUTT ALL JOINTS TOGETHER. HOLD THE LONGITUDINAL SEAMS WITH COPPER—CLAD INSULATING STAPLES (AT LEAST FOUR STAPLES PER THREE FOOT SECTION). INSULATE FITTINGS WITH INSULATING CEMENT TO THE THICKNESS ON THE ADJACENT PIPES. APPLY INSULATION IN TWO LAYERS, ALLOWING FIRST COAT TO DRY BEFORE APPLYING THE SECOND COAT. TROWEL THE FINAL COAT TO A SMOOTH AND EVEN FINISH, THEN COVER THE FITTING WITH AND EIGHT OUNCE CANVAS AND "ARBOL LAGGING ADHESIVE" TO A SMOOTH FINISHED SURFACE. UPON COMPLETION OF INSULATING, FINISH ALL EXPOSED CANVAS JACKETING WITH TWO COATS OF "ARBOL LAGGING ADHESIVE".

STERILIZATION OF PIPES

CHLORINATION: AFTER PRELIMINARY PURGING OF THE SYSTEM, CHLORINATE THE ENTIRE POTABLE WATER SYSTEM IN ACCORDANCE WITH THE CURRENT PROCEDURE OF THE AMERICAN WATERWORKS ASSOCIATION FOR FLUSHING AND DISINFECTING WATER MAINS, AND IN ACCORDANCE WITH ALL OTHER PERTINENT RULES AND REGULATIONS. WHEN STERILIZATION IS COMPLETE, ARRANGE WITH THE PERTINENT AUTHORITIES FOR TEST ON MAINS AND SYSTEM. CHLORINATE ONLY WHEN BUILDING IS UNOCCUPIED.

CLOSING IN UNINSPECTED WORK: DO NOT COVER UP OR ENCLOSE WORK UNTIL IT HAS BEEN PROPERLY AND COMPLETELY INSPECTED AND APPROVED. SHOULD ANY OF THE WORK BR COVERED UP OR ENCLOSED PRIOR TO ALL REQUIRED INSPECTIONS APPROVALS, UNCOVER THE WORK AS REQUIRED AND, AFTER IT HAS BEEN COMPLETELY INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS WITH SUCH MATERIALS AND WORKMANSHIP AS ARE NECESSARY TO THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.

GENERAL: FURNISH ALL TEST PUMPS, GAGES, EQUIPMENT, AND PERSONNEL REQUIRED, AND TEST AS NECESSARY TO DEMONSTRATE THE INTEGRITY OF THE FINISHED INSTALLATION TO THE APPROVAL OF ALL PERTINENT AUTHORITIES AND THE ARCHITECT.

SOIL & WASTE: UNLESS OTHERWISE DIRECTED, PLUG ALL OPENING AND FILL WITH WATER

TO A HEIGHT EQUAL TO THE LOWEST VENT. ALLOW TO STAND ONE HOUR OR LONGER AS REQUIRED. RECAULK LEAKING JOINTS AS DIRECTED AND THEN RE—TEST.

TER LINES: TEST AND MAKE TIGHT AT 150 PSI WATER GAGE, RETAIN FOR FOUR HOURS; REPAIR ALL LEAKING JOINTS AS DIRECTED AND THEN RE—TEST.

GAS:

AIR TEST TO PRESSURE EQUAL TO 100 PSI; RETAIN FOR FOUR HOURS;
SOAP TEST IF THE THE PRESSURE DROPS; REPAIR ALL LEAKS; AND THEN RE-TEST.

VALVES:

TEST ALL VALVE BONNETS FOR TIGHTNESS. TEST OPERATE ALL VALVES AT
LEAST ONCE FROM CLOSED TO-OPEN-TO CLOSED POSITION WHILE VALVE IS
UNDER PRESSURE. TEST ALL AUTOMATIC VALVES FOR PROPER OPERATION
AT THE SETTING INDICATED. TEST PRESSURE RELIEF VALVE AT LEAST THREE TIMES.

OTHER: TEST ALL PIPING SPECIALITIES FOR PROPER OPERATION. TEST ALL VENT POINTS TO ENSURE THAT AIR HAS BEEN VENTED.

SYMBO	LS AND LEG	<u>SEND</u>	
SYMBOLS	ABBREV.	DESCRIPTION	MATERIAL
	- WASTE	SOIL OR WASTE	40 P.V.C. WITH SOLVENT WELD CONNECTIONS, UNLESS OTHERWISE NOTED
	- ST	STORM DRAIN	ON THE DRAWING
	_ V	VENT	
	— HWR	HOT WATER RETURN	HARD-DRAWN COPPER TUBE EQUALING OR EXCEEDING THE QUALITY OF
· · · · · · · · · · · · · · · · · · ·	- CW	COLD WATER	"REYNOLDS", MADE UP WITH WROUGHT OR FORGED COPPER FITTINGS AND 95-5 TIN ANTIMONY SOLDER
	— HW	HOT WATER	
—— GAS ——— GAS ———	— GAS	GAS LINE	BLACK STEEL PIPE, PLASTIC COATED
₿	FD	FLOOR DRAIN	EQUALING OR EXCEEDING THE QUALITY OF J.R. SMITH FIGURE 2010—A, 2" SIZ WITH 5" DIAMETER STRAINER
	FS	FLOOR SINK	
ନ	FC0	FLOOR CLEAN OUT	J.R. SMITH # 4016
P	WCO	WALL CLEAN OUT	J.R. SMITH # 4016
Ą	CCO	CEILING CLEAN OUT	
\bowtie	G.V.w/B.C.	GATE VALVE WITH BALL COCK	BASED ON THE USE OD "WALWORTH" IN THE MODEL SHOWN IN GENERAL
H		NORMALLY CLOSED SHUTOFF VALVE	NOTES
N	C.V	CHECK VALVE	
垦		MOTORIZED VALVE	
		PRESSURE REGULATOR VALVE	
		THERMOSTATIC MIXING VALVE	
OD		FLOAT VALVE	
		SUMP PUMP	
丛		BALANCING VALVE	SET TO 1.2 GPM

	BACKFLOW PRI	EVENTION TYPES
NO.	THE TYPE OF PROTECTION	ITEMS/ EQUIPMENT (SIZE)
1	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	MAIN WATER LINE (4"), WATER SOFTENER, SWIMMING POOL (1½"), HOSE BIBB FOR DUMPSTER AREA (1")
2	PRESSURE VACUUM BREAKER ASSEMBLY (RPZA)	IRRIGATION SYSTEM (1")
3	DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)	WET FIRE SPRINKLER SYSTEM (6")
4	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	ICE MACHINE (½"), SODA SYSTEM (½"), SODA GUN (½"),
5	DOUBLE CHECK VALVE ASSEMBLY (DCVA)	COFFEE MACHINE (½"), REF (½"), WATER STATION (½")
6	ANTISIPHON-TYPE FILL VALVES FOR GRAVITY WATER CLOSET FLUSH TANKS	WATER CLOSET (1/2")
7	HIGH FLOW DOUBLE CHECK (WOODFORD "50HA-BR")	HOSE BIBB (¾")
8	AIR GAP	WATER HEATER (6 INCH MINIMUM), COMMERCIAL LAUNDRY WASHER

NOTE FOR CONTRACTOR:

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IS REQUIRED TESTING TWICE YEARLY

NOTE:

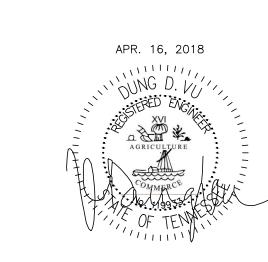
CONTRACTOR MUST PROVIDE CLOSED—CELL ELASTOMERIC INSULATION ON ALL METAL CONDENSATE DRAIN PIPES

NOTE FOR CONTRACTOR:

FINISHED FLOOR

- 1. ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE A PLUMBING SYSTEM, THE INSTALLATION OF WHICH IS REGULATED BY THIS CODE, SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE WORK AS PER SECTION # 106.1. ALL PLUMBING SUBJECT TO FIELD INSPECTOR'S APPROVAL.
- 2. PLUMBER TO PROVIDE INDIRECT WASTE OPENING TO WITHIN 2 FT. OF COOLING COILS AND EVAPORATORS FOR CONDENSATE.
- 3. PROVIDE THE LOW-PRESSURE CUTOFF ON BOOSTER PUMP. WHEN PRESSURE DROPS TO 10PSI, THE LOW PRESSURE CUTOFF SHALL PREVENT THE PUMP FROM OPERATING.
- 4. ALL BACKFLOW PREVENTERS INCLUDING THOSE SERVING FIRE SYSTEMS SHALL BE PERMITTED AND INSPECTED BY PLUMBING DEPARTMENT WITH TEST REPORT ON SITE AT TIME OF FINAL.
- 5. PROVIDE A BACKFLOW PREVENTOR LOCATED AT A CENTERLINE OF TWO TO SIX FEET ABOVE FINISH ELEVATION. WHERE HEIGHT IS ABOVE EIGHT FEET A PERMANENT MEANS OF ACCESS SHALL BE PROVIDED.
- PROVIDE READY ACCESS FOR ALL TRAP PRIMERS.

 ALL FLOOR SINKS AND HUB DRAINS SHALL BE INSTALLED WITH RIMS ½" TO 1" ABOVE



IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

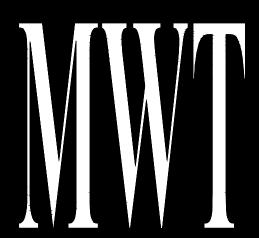
1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION

FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED
AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL
AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION
THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY
TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT.
AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE
YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR

SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

DESCRIPTION

DATE



ARCHITECTURE
URBAN PLANNING
INTERIORS
HOTELS/ HOUSING/ MIXED USE
1800.630.3750
CA-SERVICES
ca@mwtusa.com / 1800.717.5816

WARNING
IT IS A VIOLATION OF THE LAW FOR ANY
PERSON, UNLESS ACTING UNDER THE
DIRECTION OF THE ARCHITECT, TO ALTER OF
REPRODUCE THESE DRAWINGS IN ANY WAY

ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017

DRAWN BY: PL

HKD. BY: DV

PLUMBING NOTES AND LEGEND

SHEET P

CO	LD WATER SUPPL	Y FIX	TURE U	NITS	3	(FO	OT WATER SUPPLY OR GUESTROOMS, F HER PUBLIC AREAS	RES			
NO.	FIXTURE	X	cwsfu	=	TOTAL	NO.	FIXTURE	X	cwsfu	=	TOTAL
PRIV	ATE					PRIV	/ATE		<u> </u>		
160	WATER CLOSET	×	2.2	=	352	160	LAVATORY	X	0.5	=	80
160	LAVATORY	×	0.5	=	80	158	BATHTUB/SHOWER	X	1	=	158
158	BATHTUB/SHOWER	×	1	=	158	2	SINK	X	1	=	2
2	SINK	X	1	=	2	PL	JBLIC			-1	
PU	BLIC					13	LAVATORY	X	1.5	=	19.5
15	WATER CLOSET	X	5	=	75	1	SHOWER	X	3	=	3
13	LAVATORY	X	1.5	=	19.5	5	HAND SINK	X	2.25	=	11.25
2	URINAL	X	5	=	10	2	GUEST WASHER	X	1	=	2
1	SHOWER	×	3	=	3	3	COMMERCIAL CLOTHES WASHER	Х	3	=	9
5	HAND SINK	X	2.25	=	11.25	1	UTILITY SINK	X	2.25	=	2.25
3	COMMERCIAL CLOTHES WASHER	X	3	=	9	4	EYE WASH	X	2.25	=	9
1	HYDRATION STATION	X	0.25	=	0.25	1	BEVERAGE COUNTER W/	X	2.25	=	2.25
1	WEST WASTE STAND W/ SINK	×	2.25	=	2.25	1	WEST WASTE STAND W/ SINK	Х	2.25	=	2.25
1	BEVERAGE COUNTER W/ SINK	X	2.25	=	2.25	1	3-COMP. SINK	X	3	=	3
1	UTILITY SINK	×	2.25	=	2.25	2	DISH WASHER/ GLASS WASHER	X	1.4	=	2.8
1	3-COMP. SINK	X	3	=	3						306.3
6	EDF	X	0.25	=	1.5	POSSIB	LE HOT WATER DEMAND BAS	SED 0	N 306.3 FIX	TURE	UNIT = 86
3	SODA GUN	Х	1	=	3		BLE MAXIMUM DEMAND: 86 (
1	ESPRESSO MACHINE	Х	1	=	1		G CAPACITY REQUIRED (TO F	RISE (JP COLD WA	TER 1	18°F TO 140°F
1	REF.	X	1	=	1		86 BTUH	HOIM	O "N . 4" DE	CION	ADDDO AOUL EG
2	COFFEE MACHINE	Х	1	=	2	AS PER BACKUF	R FRANCHISE REQUIREMENT,	USING	J N+1 DE	SIGN	APPROACH FO
11	ICE MACHINE	X	1	=	11		10 WATER HEATER 199 OC		J/EACH (FO	R GUI	EST ROOMS,
4	EYE WASH	Х	2.25	=	9			·		–	
23	HOSE BIBB	×	1	=	23		ULATION OF GAS F				
2	GUEST WASHER	X	1	=	2		JIRED RECOVERY RATE : 158 58 KEY, 10 GPH PER KEY)		0 GPH = 15	580 G	SPH AT 100°F
1	POOL	×	30	=	30	DESI (230	GNED RECOVERY RATE: 7 GPH 100°F RISE / EACH V	X 23 WATER	0 GPH = 16 HEATER)	610 G	SPH AT 100°F
	•			1	813.25	AS F	PER MARRIOTT'S REQUIREMEN REDUNDANCY/ BACKUP.			-1' DE	ESIGN APPROA

TOTAL DEMAND BASED ON 813.25 FIXTURE UNIT FOR FLUSH TANK = 179 GPM. USE 4" MAIN. LOSS PER 100 FEET: 0.8PSI CHOOSE 3" DOMESTIC WATER METER

COLD WATER CALCULATION COMPLY WITH 2009 INTERNATIONAL PLUMBING CODE

(FO	T WATER SUPPLY F R GUESTROOMS, R IER PUBLIC AREAS	ES	TURE UNITROOMS,	TS	
NO.	FIXTURE	x	cwsfu	=	TOTAL
PRIV	ATE				
160	LAVATORY	X	0.5	II	80
158	BATHTUB/SHOWER	X	1	II	158
2	SINK	X	1	11	2
PU	BLIC				
13	LAVATORY	X	1.5	=	19.5
1	SHOWER	Х	3	=	3
5	HAND SINK	X	2.25	II	11.25
2	GUEST WASHER	X	1	II	2
3	COMMERCIAL CLOTHES WASHER	Х	3	II	9
1	UTILITY SINK	X	2.25		2.25
4	EYE WASH	×	2.25		9
1	BEVERAGE COUNTER W/ SINK	Х	2.25		2.25
1	WEST WASTE STAND W/ SINK	Х	2.25	II	2.25
1	3-COMP. SINK	Х	3	II	3
2	DISH WASHER/ GLASS WASHER	Х	1.4	=	2.8

SSIBLE HOT WATER DEMAND BASED ON 306.3 FIXTURE UNIT = 86 GPM. OBABLE MAXIMUM DEMAND: 86 GPM \times 0.35 = 30.1 GPM

REQUIRED RECOVERY RATE: 158 X 10 GPH = 1580 GPH AT 100°F RISE ITH 158 KEY, 10 GPH PER KEY) DESIGNED RECOVERY RATE: 7 X 230 GPH = 1610 GPH AT 100°F RISE (230 GPH 100°F RISE / EACH WATER HEATER)

AS PER MARRIOTT'S REQUIREMENT, USING THE 'N+1' DESIGN APPROACH FOR REDUNDANCY/ BACKUP.

SELECT 8 WATER HEATER 199 000 BTUH/ EACH FOR GUESTROOM

- REQUIRED WATER HEATER STORAGE: 158 X 4 GALLONS = 632 GALLONS (WITH 4 GALLONS PER KEY) DESIGNED WATER HEATER STORAGE: 7 X 100 GALLONS = 700 GALLONS

(100 GALLONS / EACH WATER HEATER) AS PER MARRIOTT'S REQUIREMENT, USING THE 'N+1' DESIGN APPROACH FOR REDUNDANCY/ BACKUP.

SELECT 8 WATER HEATER 100 GALLONS/ EACH FOR GUESTROOM

٧٥.	FIXTURE	x	dfu	=	TOTAL
PR	IVATE				
160	WATER CLOSET	X	3		480
160	LAVATORY	X	1	=	160
158	BATHTUB/SHOWER	Х	2	=	316
2	SINK	Х	2	=	4
PU	BLIC				
15	WATER CLOSET	X	4		60
13	LAVATORY	Х	1	=	13
2	URINAL	Х	4		8
1	SHOWER	X	2	=	2
5	HAND SINK	x	2	=	10
3	COMMERCIAL CLOTHES WASHER	х	3	=	9
1	WEST WASTE STAND W/ SINK	х	2	=	2
1	BEVERAGE COUNTER W/ SINK	х	2	=	2
1	UTILITY SINK	X	2	=	2
1	3-COMP. SINK	х	3	=	3
2	DISH WASHER/ GLASS WASHER	X	2	=	4
2	GUEST WASHER	X	2	=	4
1	HYDRATION STATION	х	0.5	=	0.5
6	EDF	X	0.5	=	3
4	EYE WASH	X	2	=	8
31	FLOOR DRAIN 2"	X	3	=	93
12	FLOOR DRAIN 3"	Х	5	=	60
1	FLOOR DRAIN 4"	Х	6	=	6
29	FLOOR SINK	X	5	=	145
1	FLOOR TROUGH	Х	6	=	6
1	POOL	X	100	=	100

USE 8" MAIN SLOPED @1/8" PER FOOT SANITARY SEWER CALCULATION COMPLY WITH 2009 INTERNATIONAL

SUMP PUMP SCHEDULE

GPM HEAD (FT.)

HP RPM VOLTAGE

0.5 3450 115/1¢/60

0.5 | 3450 | 115/1φ/60 |

TYPE

SUBMERSIBLE

SUBMERSIBLE

	WATER SOFTENER SCHEDULE													
EQUIPMENT NO.	NORMAL FLOW @ PRESSURE DROP	MAX FLOW @ PRESSURE DROP	MAX CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft³	OPERATING PRESSURE (PSI)	ELECTRIC	DIMENSIONS	DUPLEX SHIP. WT.	MANUFACTURER	OPTIONS-ACCESSORIES				
WS	70 GPM @ 15 PSI	95 GPM @ 25 PSI	300 @ 150	10	35-125	120V 50/60 Hz	SOFTENER 24"X72" BRINE 30"X50"	1620 lbs.	CULLIGAN CTM-300	PROVIDE (2) CTM-300 SOFTENERS. BRINE SYSTEM 24x72, (2) METE FLOW STAINLESS STEEL 2.0" NP, MVP DUPLEX PROGRESSIVE FLOW KIT, HARDNESS TEST KIT, AND ALL REQUIRED PRESSURE GAUGES AN SAMPLE COCKS.				

			GAS FI	RED W	/ATER	HEATER S	SCHEDU	LE				
ITEM NO.	MANUFACTURER & MODEL	QUANTITY	TYPE	CAPACITY (GAL.)	DELIVERY TEMP	RECOVERY (GAL/HOUR /EACH)	NATURAL GAS INPUT (MBH)	THERMAL EFFIENCY	INTAKE/EXHAUST (PVC)	ELEC.	WEIGHT (LBS/ EACH)	REMARKS
WH-1, 2, 3, 4, 5, 6, 7, 8, 9 (FOR GUEST ROOMS, RESTROOMS, AND OTHER PUBLIC AREAS)	A.O SMITH BTH-199	9	HIGH EFF. DIRECT VENT	100	140°F	230 @ 100°F. RISE	199	95%	3" (0'-50') 4" (51'-120')		555	PROVIDE COMPLETE WATER HEATER FOR SEALED VERTICAL DIRECT VENT OPERATION INCLUDING PIPING AND MANUFACTURERS TERMINATION KIT.

ALTERNATE MANUFACTURERS: BRADFORD WHITE, RHEEM/RUUD, STATE, LOCHINVAR NOTES:
PROVIDE WITH 3 YEARS WARRANTY

A. SANITARY SEWER SUMP PUMP CALCULATION (BASEMENT):

1 DESIGN FLOW CALCULATION:

	OLD WATER SUPPL OR BASEMENT FLO		TUKE UI	NIIS	Ö
NO.	FIXTURE	X	cwsfu	=	TOTAL
PL	IBLIC				
2	WATER CLOSET	x	5	=	10
2	LAVATORY	×	1.5	=	3
3	COMMERCIAL CLOTHES WASHER	Х	3	=	9
1	DOUBLE SOAK SINK	×	2.25	=	2.25
1	EYE WASH	X	2.25	=	2.25
2	HOSE BIBB	Х	1	=	2

TOTAL DEMAND BASED ON 28.5 FIXTURE UNIT FOR FLUSH TANK = 23 GPM. TOTAL SEWAGE FLOWS ARE ASSUMED TO BE 90% OF THE TOTAL WATER USAGE. $= 23 \text{ GPM } \times 90\% = 20 \text{ GPM}$

- PEAKING FACTOR = 450% - MAXIMUM DAILY FLOW = 300% x 20 GPM = 60 GALS/MIN (PEAK) \rightarrow CHOOSE THE PUMP CAPACITY =60 GALS/MIN.

2. HEAD CALCULATIONS:

1. DISCHARGE PIPE 60 LINEAR FEET ROUGHNESS c=130 DIAMETER d=3 INCHES FLOW q= 60 GALS/MIN
f= 0.21 x $(100/c)^1.85 x(q^1.85/d^4.865)$ f= 1.2FEET/100 FEET OF PIPE TOTAL FRICTION LOSS = 0.72 FEET
2. MINOR LOSSES IN DISCHARGE PIPE HL= (KxV^2)/2g

WHERE K=0.9 FOR 90 DEG. BENDS K=0.5 FOR 45 DEG. BENDS K=2.5 FOR SWING CHECK VALVE, OPEN FULL K=0.2 FOR GATE VALVE, OPEN FULL

VELOCITY V= 2.00 FPS NUMBER OF 90 DEG. BENDS = 1NUMBER OF 45 DEG. BENDS = 2 NUMBER OF SWING CVs = 1 NUMBER OF GATE VALVES = 1 TOTAL MINOR LOSSES = 0.29 FEET

3. STATIC HEAD STATIC HEAD = 144. OUTLET PRESSURE OUTLET PRESSURE = 7

10'(L) x 10'(W) x 7.3'(H)

TOTAL DYNAMIC HEAD = STATIC HEAD + LINE PRESSURE + LOSSES + OUTLET PRESSURE = 14 + 0.72 + 0.29 + 7 = 22 FEET

LOCATION

SUMP PIT 1 -

BASEMENT FLOOR SUMP PIT 1 -

BASEMENT FLOOR

MANUFACTURER MODEL

M292

M292

ZOELLER

ZOELLER

CHOOSE SUMP PUMP Q= 60 GPM, H= 25 FEET. DRAINAGE AND VENTING OF SUMP PUMP SHALL COMPLY WITH COA PLUMBING CODE SECTIONS 710.2 THROUGH 710.3 - TOTAL SEWAGE FLOWS = 60 GPM = 3600 GPH - SANITARY SEWER STORAGE TIME: 1.5 HOUR - SUMP PIT VOLUME: $5400 \text{ GALLONS} = 722 \text{ ft}^3$ CHOOSE SUMP PIT CAPACITY: 730 ft3

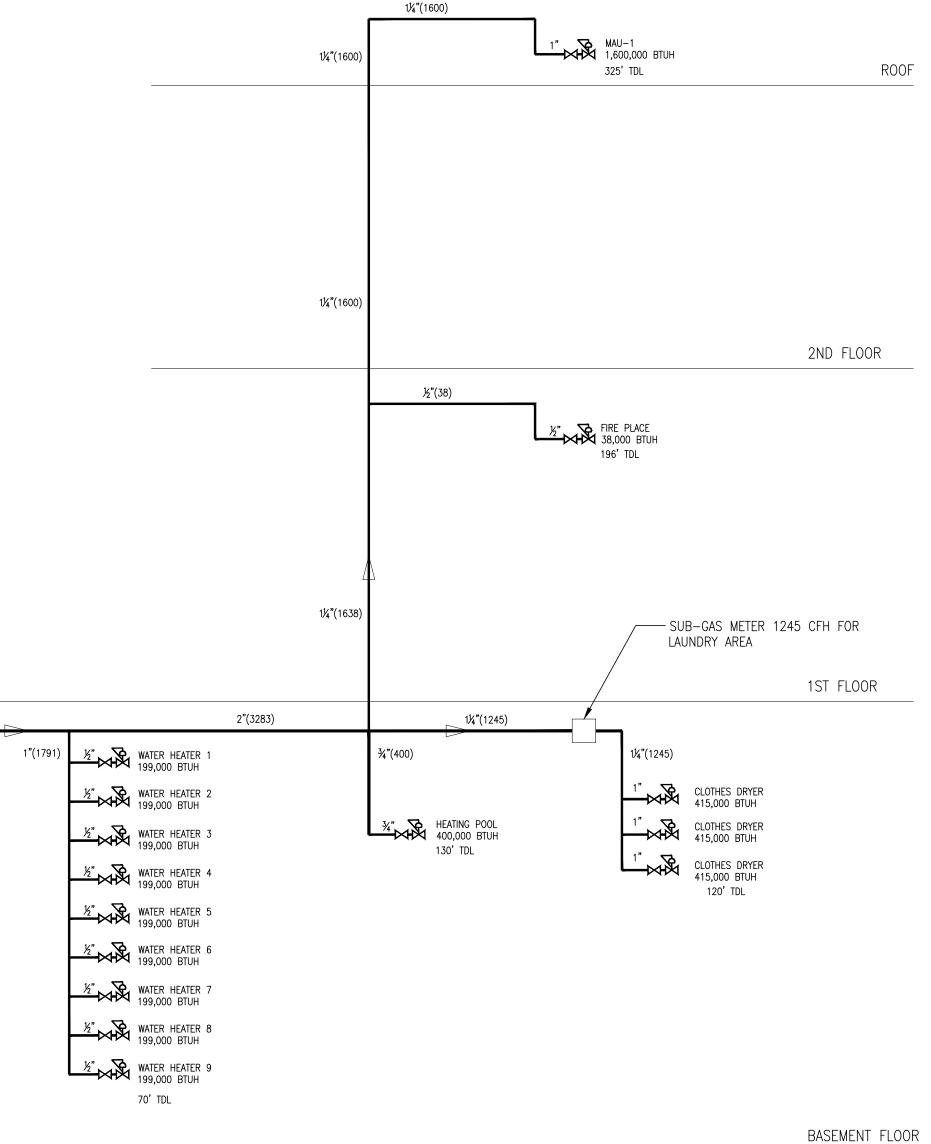
SYSTEM PRESSURE CALCULATION

BOOSTER PUMP HI CALCULATION	EAD	
	FEET	PSI
STATIC HEAD - BUIDLING HEIGHT (PSI = FEET x 0.431)	156	67.24
FRICTION HEAD - FRICTION LOSS (ESTIMATED AT 10% OF STATIC HEAD)		+6.7
HIGHEST OUTLET PRESSURE REQUIRED (AVERAGE ESTIMATED VALUE = 40 PSI)		+40
SYSTEM REQUIRED PRESSURE		113.94
MINIMUM SUCTION PRESSURE		-20
SYSTEM BOOST PRESSURE		93.94
PRV LOSSES (ESTIMATED AT 5 PSI)		+5
WATER SOFTENER LOSSES (ESTIMATED AT 5 PSI)		+5
PUMP HEAD REQUIRED	241	103.94

PUMPING CAPACITY: 179 GPM (SEE COLD WATER SUPPLY FIXTURE UNITS)

CAPACIT	/ SPLIT	
SYSTEM TYPE	%	%
DUPLEX	50	50
	P1 - GPM	P2 - GPM
PUMP CAPACITY (TOTAL CAPACITY x % SPLIT)	100	100

SELECT BOOSTER SYSTEM: ARMSTRONG DUPLEX BOOSTER MODEL 4700 SERIES # VMS-3203. SEE BOOSTER PUMP SCHEDULE @ P5.1



BASIS OF DESIGN

GAS SCHEMATIC DIAGRAM (2 PSI)

2"(5074)

CONNECTIONS

SUCTION DISCHARGE

N/A

N/A

GAS METER 5074

MAXIMUM DEMAND = 5,074,000 BTUH (5074 CU.FT./HR.)
TOTAL DEVELOPED LENGTH FROM POINT OF DELIVERY TO MOST REMOTE OUTLET = 325 FT. NOTE: TDL= TOTAL DEVELOPED LENGTH FROM METER

INSTALL GAS PRESSURE REGULATOR FOR EACH EQUIPMENT GAS CALCULATION COMPLY WITH TABLE 402.4(5) SCHEDULE 40 METALLIC PIPE

APR. 23, 2019

IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS) IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

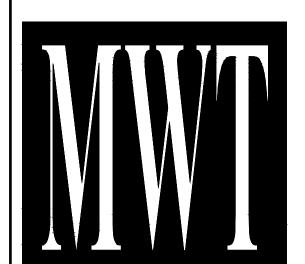
YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS, ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATIO THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT.

AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 3 | ISSUED FOR BID (ID ONLY) | 07/2 I/I7 4 ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT 9 ISSUED FOR PERMIT IO ISSUED TO FRANCHISE 04/23/19 F

DESCRIPTION



ARCHITECTURE URBAN PLANNING **INTERIORS** HOTELS/ HOUSING/ MIXED USE 1800.630.3750 **CA-SERVICES** ca@mwtusa.com / 1800.717.5816

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY

ALOFT **DOWNTOWN**

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

CHKD. BY: DV PLUMBING SPECS

DRAWN BY: PL

AND DIAGRAM

	100150	21.15.12	PURCHASING OR INSTALLATION)		
	ISSUED	04.15.10			
	REVISED	09.30.15			
SYMBOL	TYPE	ITEM NUMBER	LOCATION	VENDOR	NOTES
L1	LAVATORY — ABOVE COUNTER ROUND BESSEL WITH OVERFLOW—VOX ROUND K—14800—0. COLOR: WITHE	See FF&E Spec	ALL STANDARD GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	FAUCET — SINGULER K-10861-4 AERATOR-1219350-NA LAMINAR FLOW	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	AERATOR NEEDED TO ACHIEVE 1 MAXIMUM FLOW RATE
L2	UNDER COUNTER LAVATORY — VERTICAL K—2883—0. COLOR: WHITE	See FF&E Spec	ALL ADA GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
WC1	TOILET — WELLWORTH PRESSURE LITE ELONGATED TOILET — K-3531-0. COLOR: WHITE	See FF&E Spec	ALL STANDARD GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	TOILET SEAT — ELONGATED CLOSED FRONT TOILET SEAT WITH COVER K—4774—0. COLOR: WHITE	See FF&E Spec	ALL STANDARD GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
WC2	TOILET ADA — HIGHLINE PRESSURE LITE ELONGATED ADA —3519—0. COLOR: WHITE	See FF&E Spec	ALL ADA GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	THREE-FUNCTION SHOWER HEAD - PURIST -K-997-CP	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	SHOWER TRIM - SINGULER -T10448-4	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	45 DEGREE SHOWER ARM AND WALL-MOUNT FLANGE - K-7397-CP	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	TEMP BALANCING VALVE WITH SCREWDRIVER STOPS— UNIVERSAL INLETS — K—304—KS	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	TEMP BALANCING VALVE TRIM — SINGLE CONTROL— SINGULER — K-T10448-4-CP	See FF&E Spec	ALL GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	HANDSHOWER ASSEMBLY — SHOWER COLUMN (HYDRORAIL K-45904)/ HANDSHOWER (PURIST K- 978)/ HOSE (MASTERSHOWER 60" HOSE K-9514)	See FF&E Spec	ALL ADA GUEST BATHROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
BT1	BATH TUBS – LEFT DRAIN K-715-0 / RIGHT DRAIN K-716-0 – WHITE	See FF&E Spec	SELECTIVE ADA GUEST BATHROOMS— REFER TO PROTOTYPE FOR QUANTITY	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
SH1	SHOWER PAN-TD-3660-OS-SF WITH SOLID DRAIN COVER (SS) #7300 SOLID WHITE (GLOSS)	See FF&E Spec	ALL GUEST BATHROOMS	MINCEY MARBLE MANUFACTURING, INC	
SH2	ADA SHOWER PAN-SP-3162-C/SF #2250 SOLID WHITE	See FF&E Spec	ALL ADA GUEST BATHROOMS	MINCEY MARBLE MANUFACTURING, INC	
	SHOWER DRAIN AND PAN KIT LEFT: RT3654L-PVC-17X5-2.75-4.5 (CUSTOM) RIGHT: RT3654R-PVC-17X5-2.75-4.5 (CUSTOM) DRAIN GRATE: POLISHED CHROME PAN: SOLID WHITE	See FF&E Spec	ALL GUEST BATHROOMS	TILE REDI USA, LLC.	
	BATH TUB TRIM-SINGULER VALVE TRIM (K-T10448-4CP)/ VALVE (K-304-KS-NA)/ SINGULER DIVERTER SPOUT (K-15236-CP)	See FF&E Spec	SELECTIVE ADA GUEST BATHROOMS REFER TO PROTOTYPE FOR QUANTITY	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
SK1	GUEST ROOM KITCHEN COUNTERTOP SINK 21"X15" 18GA SINGLE BOWL STAINLESS SINK "STERLING 11449" WITH BASKET STRAINER AND GOOSENECK FAUCET KOHLER K-8761-G		GUEST BATHROOMS	3/8" ANGLE SUPPLY STOPS, BRAIDED STAINLESS SUPPLY TUBES, 17GA BRASS TAILPIECE AND 3" BASKET STRAINER	

	ISSUED	04.15.10			
	REVISED	09.30.15			
SYMBOL	TYPE	ITEM NUMBER	LOCATION	VENDOR	NOTES
	PUBLIC AREA FIXTURES	TILW NOWBER	LOCATION	VLINDON	NOTES
WC3	WATER CLOSET-HIGH EFFICIENCY TOP SPUD FLOOR MOUNTED TOILET ST-2029-A-WHITE	See FF&E Spec	ALL PUBLIC RESTROOM ADA PUBLIC RESTROOM	SLOAN INC. CELL 847-671-4300 CUSTOMER.SERVICE@SLOANVALVE.COM	
	WATER CLOSET SEAT — STRONGHOLD ELONGATED TOILET SEAT WITH CHECK HINGE — K4731—0. COLOR: WHITE	See FF&E Spec	ALL PUBLIC AREA RESTROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	WATER CLOSET FLUSHOMETER FOR FLOOR MOUNTED OR WALL HUNG TOP SPUD BOWLS ECOS 8113-1.6/1.1	See FF&E Spec	ALL PUBLIC AREA RESTROOMS	SLOAN INC. CELL 847-671-4300 CUSTOMER.SERVICE@SLOANVALVE.COM	
UR	URINAL HIGH-EFFICIENCY KOHLER K-4991-ET 0.5 GPF COLOR: WHITE	See FF&E Spec	ALL MEN'S PUBLIC AREA RESTROOMS	KOHLER/CONTACT;ANUPAMARU— CELL 703—371—4269 ANUPA.MARU@KOHLER.COM	K-10675 WAVE DC 0.5 GPF URINAL FLUSHOMETER
L3	UNDER COUNTER LAVATORY — VERTICAL K—2883—0. COLOR: WHITE	See FF&E Spec	MEN'S/WOMEN'S STANDARD & ADA PUBLIC AREA RESTROOMS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	FAUCET — HYBRID GOOSENECK TOUCHLESS DECK MOUNT K-7518-CP	See FF&E Spec	MEN'S/WOMEN'S STANDARD & ADA PUBLIC AREA RESTROOMS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
SH3	THREE FUNCTION SHOWER HEAD - PURIST - K-997-CP	See FF&E Spec	POOL WC	KOHLER/CONTACT;ANUPAMARU— CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	SHOWER TRIM - SINGULER - K-T10448-4	See FF&E Spec	POOL WC	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	45 DEGREE SHOWER ARM AND WALL-MOUNT FLANGE - K-7397-CP	See FF&E Spec	POOL WC	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	TEMP BALANCING VALVE WITH SCREWDRIVER STOPS - RITE-TEMP - K-304-KS	See FF&E Spec	POOL WC	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
	TEMP BALANCING VALVE TRIM - SINGULER - K-T10448-4	See FF&E Spec	POOL WC	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
L4	WALL MOUNTED LAVATORY, SOHO WALL MOUNT SINK — K—2084—0. COLOR: WHITE	See FF&E Spec	EMPLOYEE & POOL WC TOILETS	KOHLER/CONTACT;ANUPAMARU— CELL 703—371—4269 ANUPA.MARU@KOHLER.COM	
	FAUCET - HYBRID GOOSENECK TOUCHILESS DECK MOUNT K-7518-CP	See FF&E Spec	EMPLOYEE & POOL TOILETS	KOHLER/CONTACT;ANUPAMARU- CELL 703-371-4269 ANUPA.MARU@KOHLER.COM	
MS	MOP SINK-FLAT MSB-2424 MOLDED STONE	See FF&E Spec	JANITORS CLOSET	FIAT-INFO@FIAT.CA	
	FAUCET-FLAT MANUAL FAUCET WITH VACUUM BREAKER - 830AA/832-AA-30	See FF&E Spec	JANITORS CLOSET	FIAT-INFO@FIAT.CA	
SK2	SINK-ELKAY-LRAD-332255 TYPE 304 STAINLESS STEEL	See FF&E Spec	EMPLOYEE BREAKROOM	ELKAY	
	FAUCET-AMERICAN STANDARD-4025.001- POLISHED CHROME LEVER WITH HOSE AND SPRAY	See FF&E Spec	EMPLOYEE BREAKROOM	AMERICAN STANDARD CONTACT: ROBERTSM@AMERICANSTANDARD. COM — 732—672—7359 PHONE	
US	SINK-EL.MUSTEE - 27F UTILATWIN AND POLYOURE 2-COMPARTMENT	See FF&E Spec	LAUNDRY ROOM	E.L.MUSTEE	
	FAUCET-E.L. MUSTEE & SONS-93.600 MANUAL, 2 HANDLES	See FF&E Spec	LAUNDRY ROOM	E.L.MUSTEE	
EDF	ELECTRIC WATER COOLER STAINLESS STEEL BI- LEVEL ELKAY-LRPBM28C 7.5 GPH, 325 WATTS	See FF&E Spec	CORRIDOR	ELKAY	
EW	EYEWASH MODEL 7260BT-7270BT HAWS CORP		LAUNDRY ROOM	HAWS	

CVMDOL	FIXTURE TYPE	MANUFACTURER		PIPE S	SIZES		DESCRIPTION	NOTEO
SYMBOL	FIXTURE TYPE	MODEL NUMBER	HW	CW	SAN OR WASTE	VENT		NOTES
FD PFD	FLOOR DRAIN, MEDIUM DUTY TYPE	J.R. SMIT MODEL 20010YA— U—P050		1/2"	2" 3", 4"	2"	DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, ROUND TOP, NO—HUB OUTLET PROVIDE WITH THE FOLLOWING OPTIONS: —P050: 1/2" TRAP PRIMER CONNECTION —U: VANDAL PROOF SCREWS/ —CP: CHROME PLATED STRAINER (FOR USE IN SHOWERS/GUEST ADA BATH AND TOILET ROOM ONLY) SIZE AS INDICATED ON FLOOR PLANS AND RISER DIAGRAM. PROVIDE 6: FUNNEL RECEPTOR FOR ALL FLOOR DRAINS WHICH ARE INTENDED FOR INDIRECT WASTE DISPOSAL PROVIDE A STAINLESS STEEL BODY FOR PFD WITH POLISHED STAINLESS STEEL STRAINER.	1,2
FD1	FLOOR DRAIN, GENERAL PURPOSE	J.R. SMITH 3715 SERIES			2" 3", 4"	2"	CAST IRON 12" DIAMETER DRAIN WITH SEDIMENT BUCKET, CAST IRON GRATE WITH INTEGRAL 4" FUNNEL, SPEEDI—SET OUTLET CONNECTION.	1,2
FD2	FLOOR DRAIN, WITH COVER	MIFAB F1100-VD			2"	2"	CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, AND STAINLESS STEEL SOLID COVER WITH SECONDARY GRATE TO PREVENT ENTRY OF DEBRIS	1,2
TD	TRENCH DRAIN	ZURN Z-812 SERIES			2" 3", 4"	2"	ZURN FLOW-THRU SYSTEM, 12" WIDE, 4" OUTLETS, Z-812-HPD DUCTILE IRON HEEL PROOF GRATE	1,2
FS	INDIRECT WASTE DRAIN W/FUNNEL INTERCEPTOR	J.R. SMITH 3430-12-22-FBS- LXH-SBP-U		1/2 "	2" 3", 4"	2"	DUCO CAST IRON BODY AND FLASHING COLLAR WITH NICKEL BRONZE ADJUSTABLE STRAINER HEAD W/SECURED SQUARE HOLE GRATE AND FUNNEL ATTACHED TO GRATE W/CONCELED SCREWS, PERMITTING FUNNEL TO BE MOVED ON GRATE. PROVIDE VANDAL PROOF SCREWS. PROVIDE WITH ½" TRAP PRIMER CONNECTION WHERE REQUIRED BY CODE.	1,2
FS-P	INDIRECT WASTE DRAIN	ZURN Z-1995 SERIES			6"	3"	ZURN Z-1995 SANI-FLOOR RECEPTOR, 24"x16"x17" DEEP CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE AND RECTANGULAR SQUARE HOLED HEAVY DUTY GRATE WITH WHITE ACID RESISTING COATED INTERIOR AND TOP, COMPLETE WITH ALUMINUM ANTI-SPLASH INTERIOR BOTTOM DOME STAINER.	1,2
FC0	FLOOR CLEAN OUT	J.R. SMITH 4051-PB SERIES			2", 4"		TWIST TO FLOOR ADJUSTMENT POLISHED BRONZE TOP	1,2,3
WPCO	WALL PLATE CLEAN OUT	J.R. SMITH 4550-PB SERIES			2", 4"		PROVIDE JR SMIT 4735 ACCESS COVER POLISHED BRONZE TOP	1,2,3
СО	CLEAN OUT	J.R. SMITH 4250-G SERIES			2", 4" 6", 8"		PROVIDE VANDAL PROOF TOP	
TP	TRAP PRIMER VALVE	PRECISION PLUMBING MODEL P-1		1/2"			TRAP PRIMER WITH INTERNAL VACUUM BREAKER AND BACKFLOW PREVENT. SUPPLY WITH DISTRIBUTION UNIT. MAX 4 FLOOR DRAINS/FLOOR SINKS PER TRAP PRIMER. COORDINATE WITH MECHANICAL PLUMBING DRAWINGS FOR QUANTITY OF FLOOR DRAINS/FLOOR SINKS TO ENSURE ALL FLOOR DRAINS AND FLOOR SINKS ARE EQUIPPED WITH TRAP PRIMER. -PRO-SET TRAP GUARD TO BE PROVIDED IN LIEU OF TRAP PRIMERS AS ALLOWED BY LOCAL CODE.	1,2

NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES. ALL ACCESSIBLE FIXTURES SHALL BE MOUNTED IN ACCORDANCE WITH ADA SPECIFICATIONS WHERE IDENTIFIED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS.
- 2. REFER TO PLUMBING SPECIFICATIONS FOR LISTING OF APPROVED ALTERNATE MANUFACTURES FOR PLUMBING FIXTURES AND EQUIPMENT. ALTERNATE MANUFACTURERS SHALL BE AS FOLLOWS:

FLOOR DRAINS: MIFAB, WADE, ZURN TRENCH DRAINS (GENERAL): MIFAB, WADE, ZURN ALL FLOOR DRAINS TO BE PROVIDED

C	CIRCULATING PUMP SCHEDULE									
SYMBOL	DESCRIPTION	USE / LOCATION	MANUFACTURER	MODEL #	MODEL #					
CP-1	CIRC. PUMP HOT WATER	BASEMENT FLOOR	BELL & GOSSET	MODEL 60-14	HOT WATER CIRCULATION PUMP (10GPM@40FT. HEAD) 3/4 HP BELL & GOSSET MODEL 60-14					
CP-2	CIRC. PUMP HOT WATER	BASEMENT FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (20GPM@45FT. HEAD) 2 HP BELL & GOSSET SERIES 60					
CP-3	CIRC. PUMP HOT WATER	FIRST FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (15GPM@40FT. HEAD) 1.5 HP BELL & GOSSET SERIES 60					
CP-4	CIRC. PUMP HOT WATER	SECOND FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (15GPM@40FT. HEAD) 1.5 HP BELL & GOSSET SERIES 60					
CP-5	CIRC. PUMP HOT WATER	3RD FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (20GPM@45FT. HEAD) 2 HP BELL & GOSSET SERIES 60					
CP-6	CIRC. PUMP HOT WATER	6TH FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (20GPM@45FT. HEAD) 2 HP BELL & GOSSET SERIES 60					
CP-7	CIRC. PUMP HOT WATER	9TH FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (20GPM@45FT. HEAD) 2 HP BELL & GOSSET SERIES 60					
CP-8	CIRC. PUMP HOT WATER	12TH FLOOR	BELL & GOSSET	MODEL 60	HOT WATER CIRCULATION PUMP (20GPM@45FT. HEAD) 2 HP BELL & GOSSET SERIES 60					

<u>IMPORTANT</u>

CONTRACTOR SHALL CONDUCT FLOW TEST AND PROVIDE ALTERNATE PRICE FOR CONSTANT PRESSURE BOOSTER STATION WITH PRV'S IN LIEU FLOW TEST RESULTS ARE LESS THAN ADEQUATE TO PROVIDE 40 PSI AT TOP FLOOR. FAILURE TO PROVIDE ALTERNATE PRICE INDICATES THERE IS NO PRICE DIFFERENCE TO PROVIDE PRESSURE BOOSTER STATION. PRESSURE BOOSTER STATION SPECIFIED IS FOR TYPICAL PRESSURES AND FLOWS AND WILL NEED TO BE ADJUSTED BASED UPON FLOW TEST. SUBMIT SHOP DRAWING WITH ALL PIPING, PRESSURES, FLOW TEST RESULTS ETC.

NOTES:

- ALL CONDENSATE DRAINAGE, EXCEPT EXPOSED TO GUEST VIEW, TO BE SCHEDULE 40 PVC DRAIN WASTE VENT PIPING WITH WELDED JOINTS AS ALLOWED PER LOCAL CODE.
- 2. ALL UNDERGROUND SANITARY AND STORM MAINS AND BRANCHES, EXCEPT EXPOSED TO GUEST VIEW, TO BE SCHEDULE 40 PVC DWV PIPING WITH WELDED JOINTS.

 3. PLUMBING CONTRACTOR SHALL UTILIZE THE SINGLE PIPE SOLVENT WASTE AND VENT SYSTEM AS ALLOWED BY LOCAL

PIPE INSULATION

- CONTRACTOR SHALL INSULATE HOT WATER SUPPLY AND HOT WATER
 RETURN PIPING NOT INSTALLED CONCEALED IN WALLS WITH 1"
 THICKNESS.
- 2. RAIN LEADER PIPING TO BE PROVIDED WITH 1-1/2" BLANKET INSULATION WRAP.

HOSE BIBB (HB, FPHB)

HOSE BIBB SHALL BE WOODFORD MODEL (B67-CONCEALED BOX TYPE), AUTOMATIC DRAINING WITH DOUBLE CHECK BACK-FLOW PREVENTER. ** INLET AND OUTLET. THREADED CONNECTION. FINISH TO BE CHROME PLATED BRASS. PROVIDE LOOSE KEY FOR EACH HYDRANT/HOSE BIBB.

PROVIDE TRUBO LAV GUARD FOR ALL EXPOSED PIPING UNDER ADA SINKS AND LAVATORIES

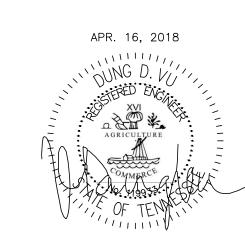
DOMESTIC WATER PIPING MAINS AND BRANCHES

EXCEPT IN GUESTROOMS

DOMESTIC WATER PIPING MAINS AND BRANCHES TO BE SCHEDULE 80 CORZAN CPVC IN LIEU OF GALVANIZED FOR 2.5" AND LARGER, AND FLOWGUARD GOLD CPVC IN LIEU OF TYPE "L" COPPER FOR 2" AND SMALLER AS ALLOWED PER CODE.

CONTRACTOR TO IDENTIFY PIPING EVERY 25 FEET.

SUBCONTRACTOR, AT THE OWNERS' DISCRETION.



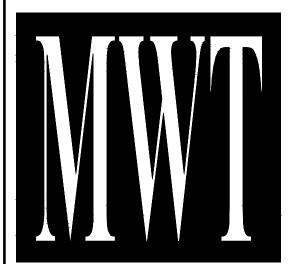
- IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

 IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

 1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

 2. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED
- YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
 YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATION THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT.
 AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR DEMOLITION	06/09/17	PL
2	ISSUED TO FRANCHISE	06/09/17	PL
2 3 4 5	ISSUED FOR BID (ID ONLY)	07/21/17	PL
4	ISSUED TO FRANCHISE	08/17/17	PL
5	ISSUED FOR PERMIT	08/04/17	PL
6	FOR FINAL APPROVAL	10/02/17	PL
7	ISSUED FOR PERMIT	11/28/17	PL
8	ISSUED FOR PERMIT	02/21/18	PL
9	ISSUED FOR PERMIT	04/16/18	PL
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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

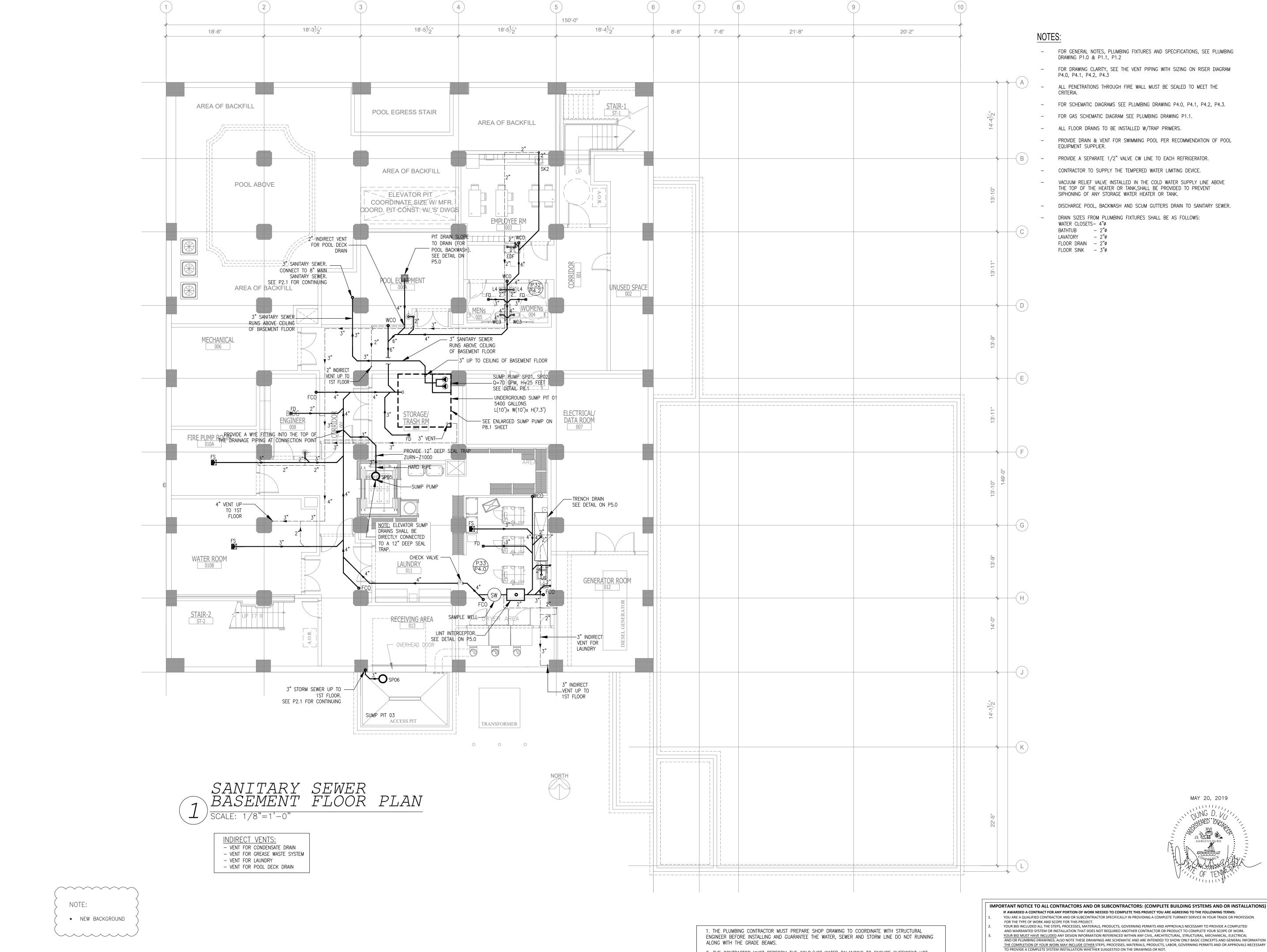
PROJECT NO.: 16 006

DATE: 07-21-2017

DRAWN BY: PL
CHKD. BY: DV
PLUMBING

FIXTURE SCHEDULE

SHEET P1



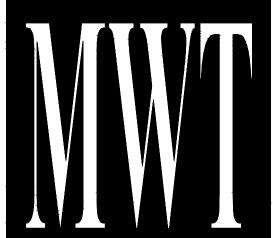
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- FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1, P4.2, P4.3
- ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE
- FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3.
- FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
- PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
 - VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT
 - DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
 - WATER CLOSETS- 4"ø BATHTUB – 2"ø
 - LAVATORY 2"ø FLOOR DRAIN - 2"ø

4 ISSUED TO FRANCHISE 5 ISSUED FOR PERMIT 6 FOR FINAL APPROVAL 7 ISSUED FOR PERMIT 8 ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE I ISSUED TO FRANCHISE 05/20/19 F

DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17

3 | ISSUED FOR BID (ID ONLY) | 07/2 I/I7



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PROJECT NO.: 16 006

DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV SANITARY SEWER BASEMENT FLOOR

IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS: YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
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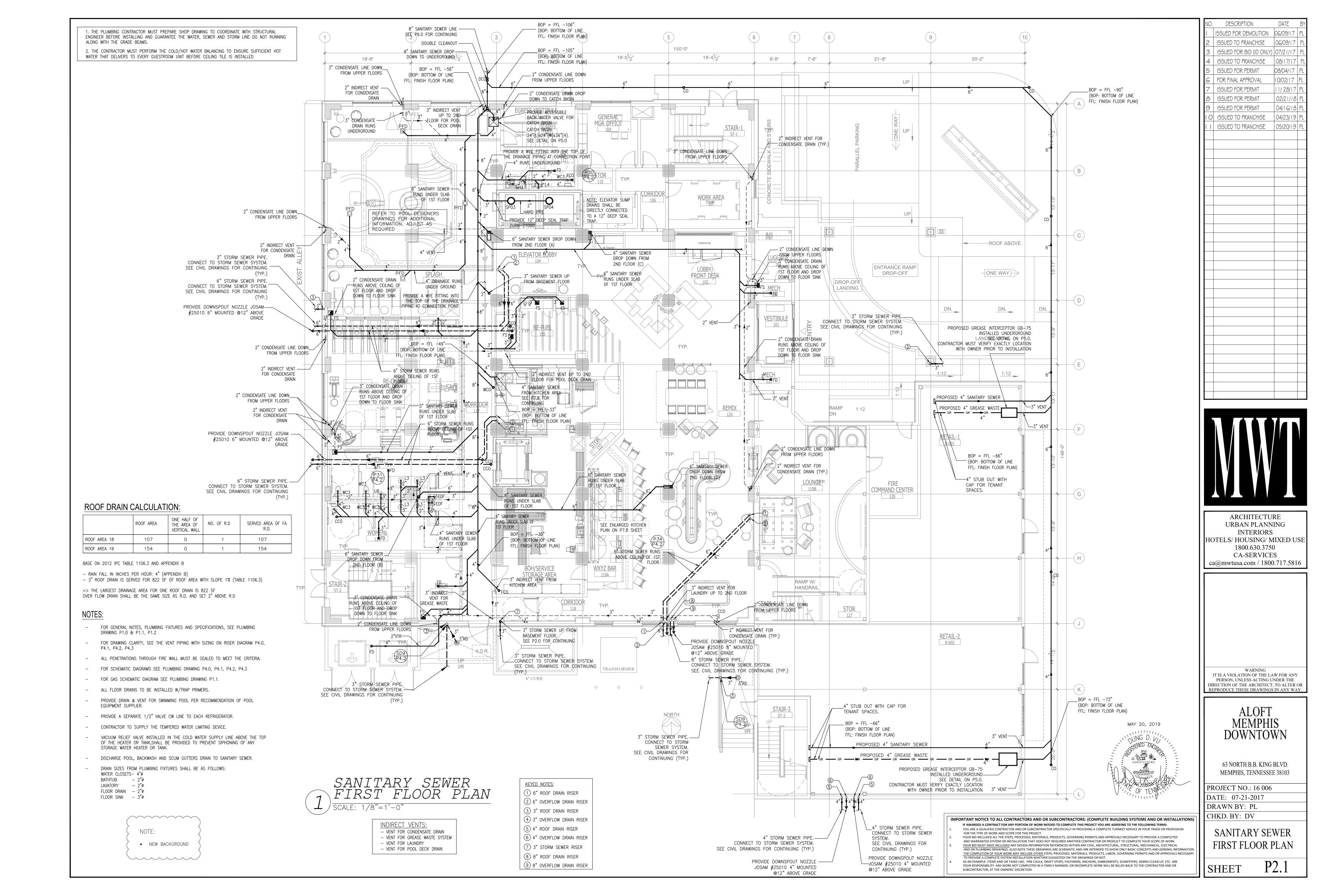
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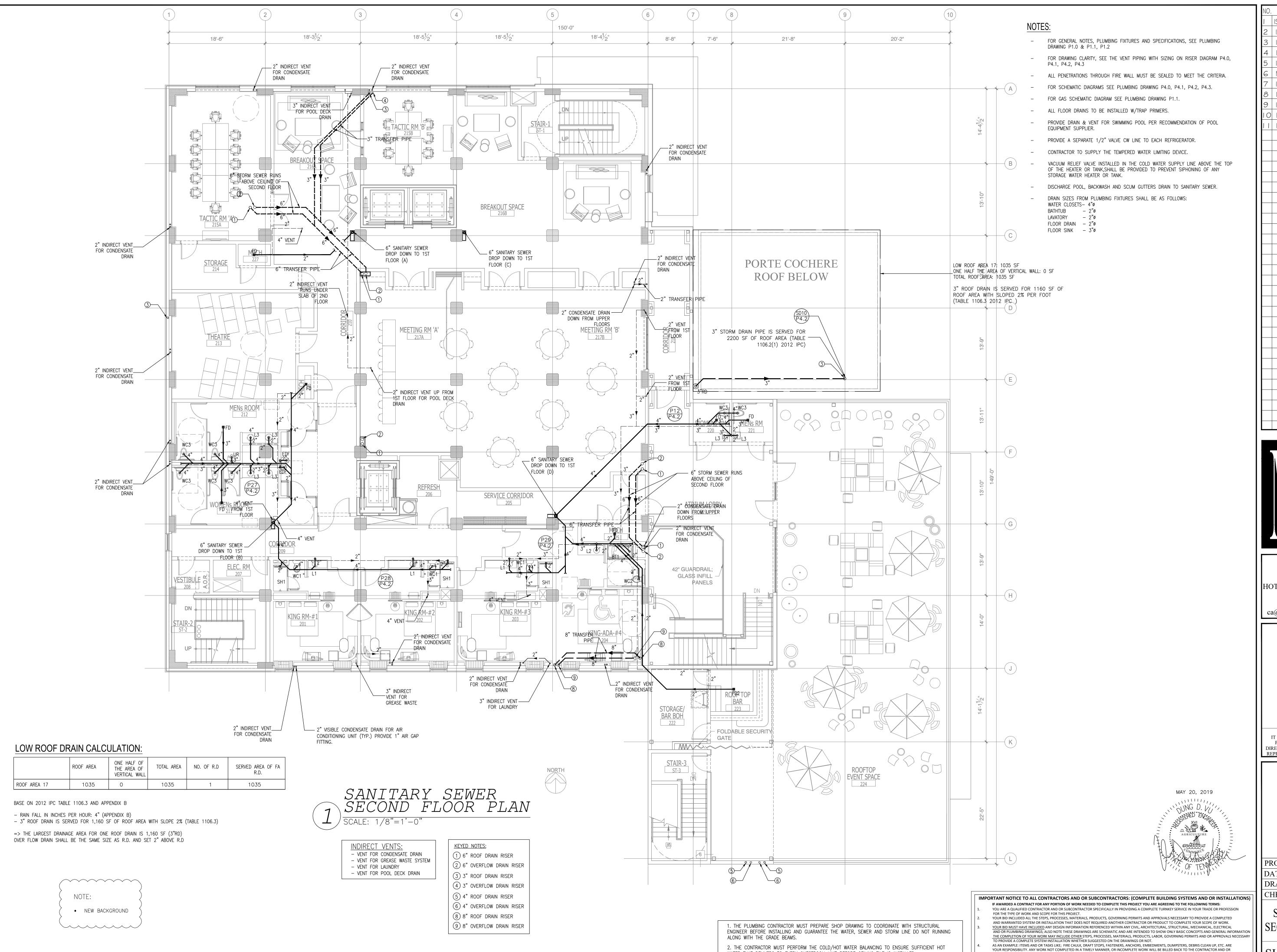
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2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT

WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

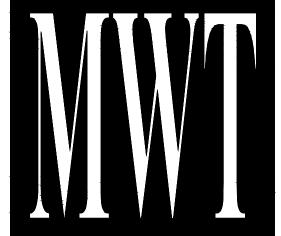
MAY 20, 2019





WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

DESCRIPTION ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 ISSUED FOR BID (ID ONLY) 07/21/17 4 ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL 7 ISSUED FOR PERMIT 8 ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE | ISSUED TO FRANCHISE | 05/20/19 | F



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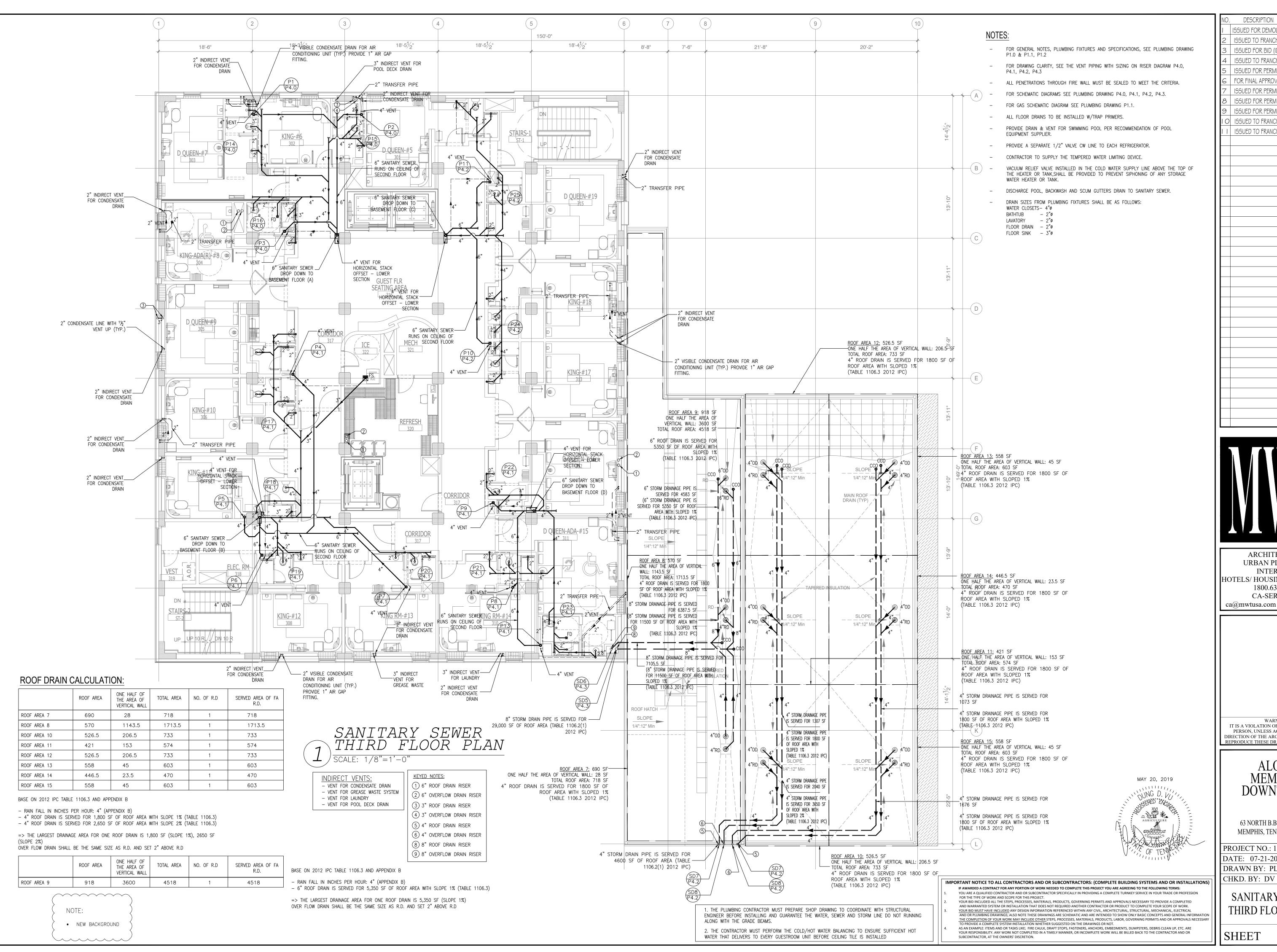
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PROJECT NO.: 16 006

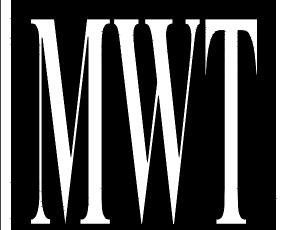
DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV SANITARY SEWER

SECOND FLOOR PLAN



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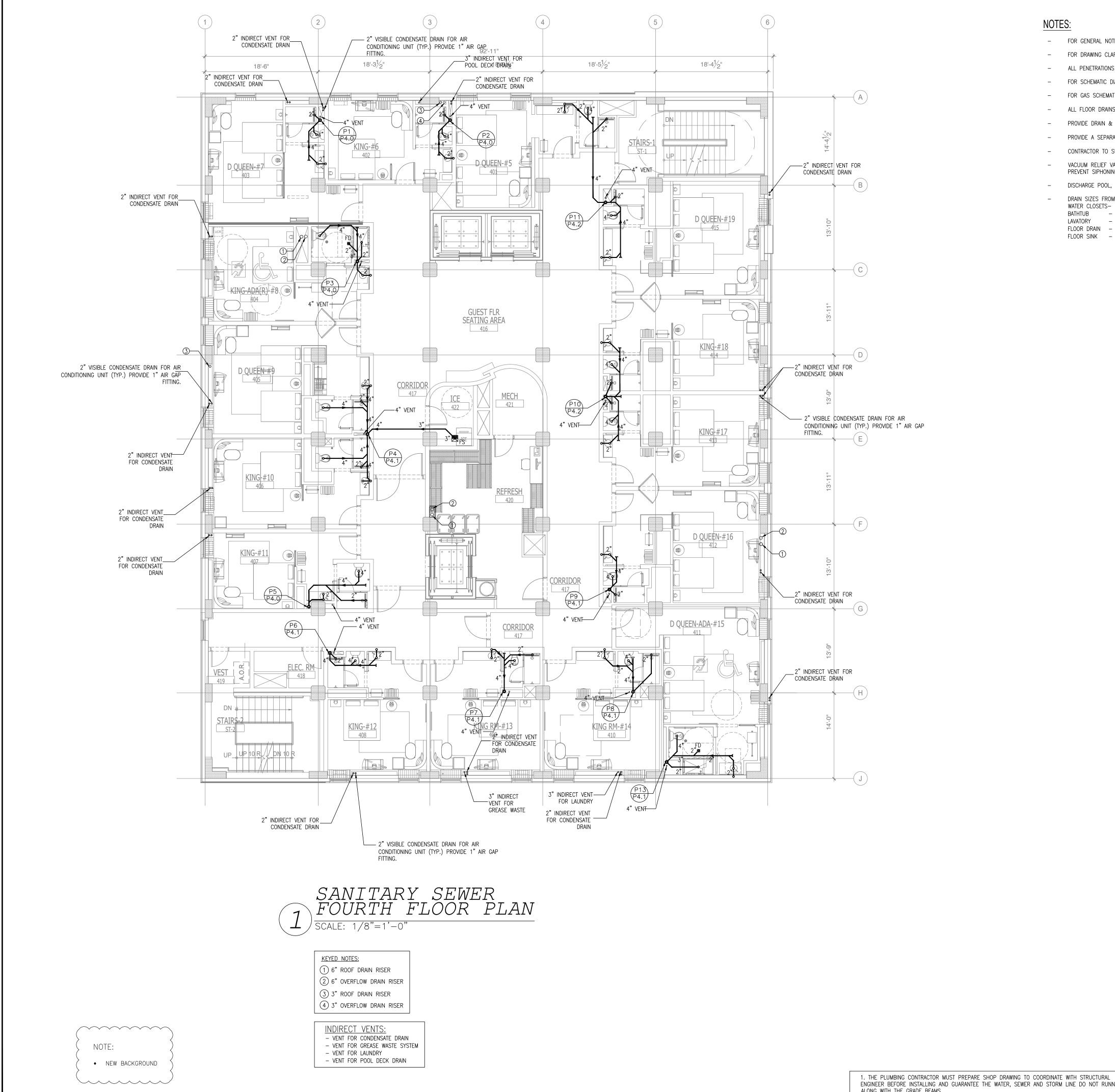
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PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL

> SANITARY SEWER THIRD FLOOR PLAN





- FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0 & P1.1, P1.2
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- FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
- ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
- WATER CLOSETS- 4"Ø BATHTUB – 2"ø
- LAVATORY 2"ø
- FLOOR DRAIN 2"ø FLOOR SINK - 3"ø

ISSUED FOR BID (ID ONLY) 07/21/17 4 ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE ISSUED TO FRANCHISE 05/20/19 F

DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17



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63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV

SANITARY SEWER FOURTH FLOOR PLAN

ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS. 2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT

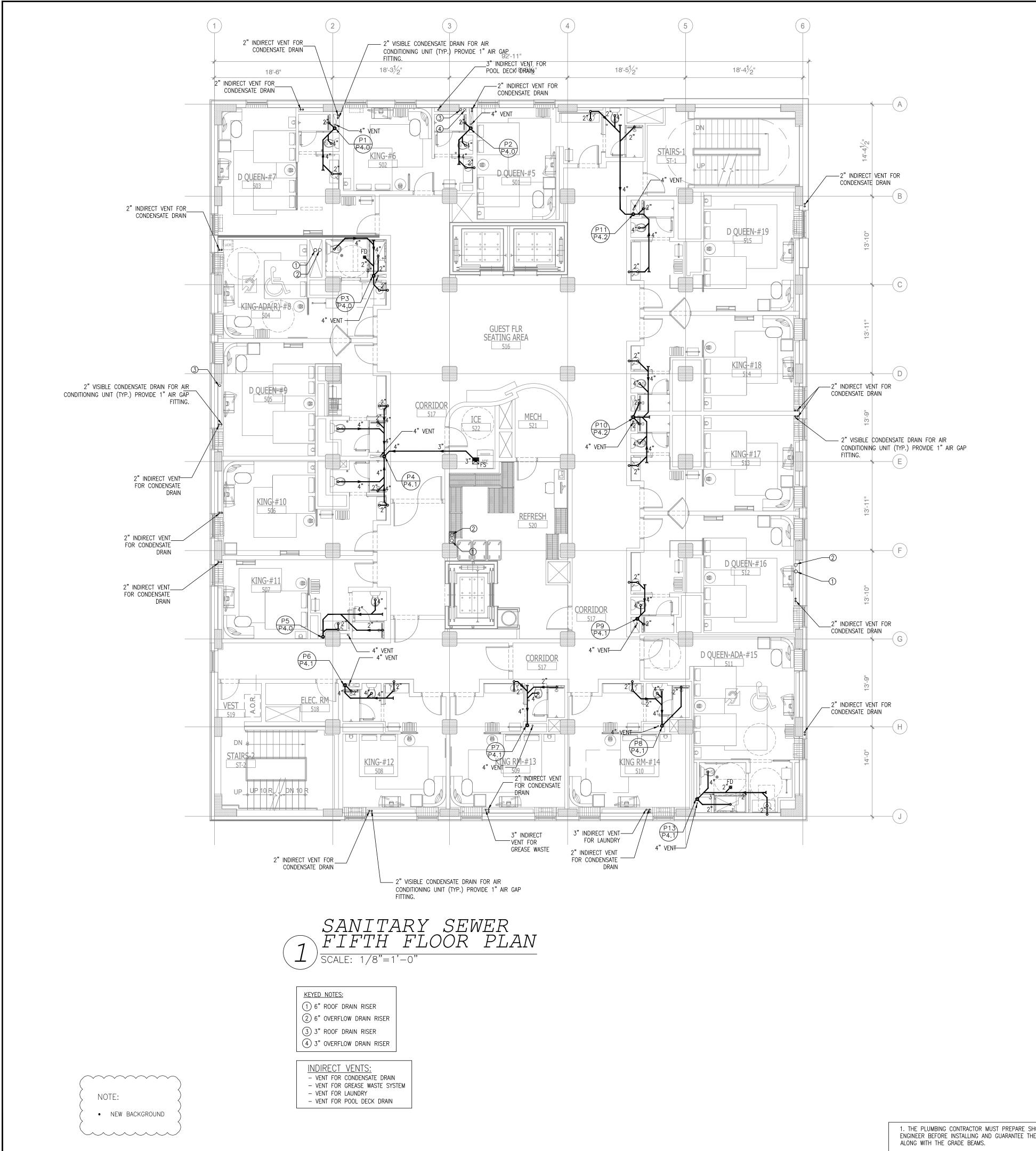
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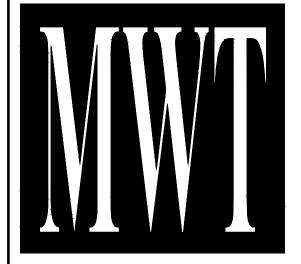
MAY 20, 2019



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- PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
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- LAVATORY 2"ø
- FLOOR DRAIN 2"ø FLOOR SINK - 3"ø

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 ISSUED FOR BID (ID ONLY) 07/21/17 4 ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE ISSUED TO FRANCHISE 05/20/19 F

DESCRIPTION



ARCHITECTURE URBAN PLANNING **INTERIORS** HOTELS/ HOUSING/ MIXED USE 1800.630.3750 **CA-SERVICES** ca@mwtusa.com / 1800.717.5816

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OF REPRODUCE THESE DRAWINGS IN ANY WAY

ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL

CHKD. BY: DV

SANITARY SEWER FIFTH FLOOR PLAN

ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL

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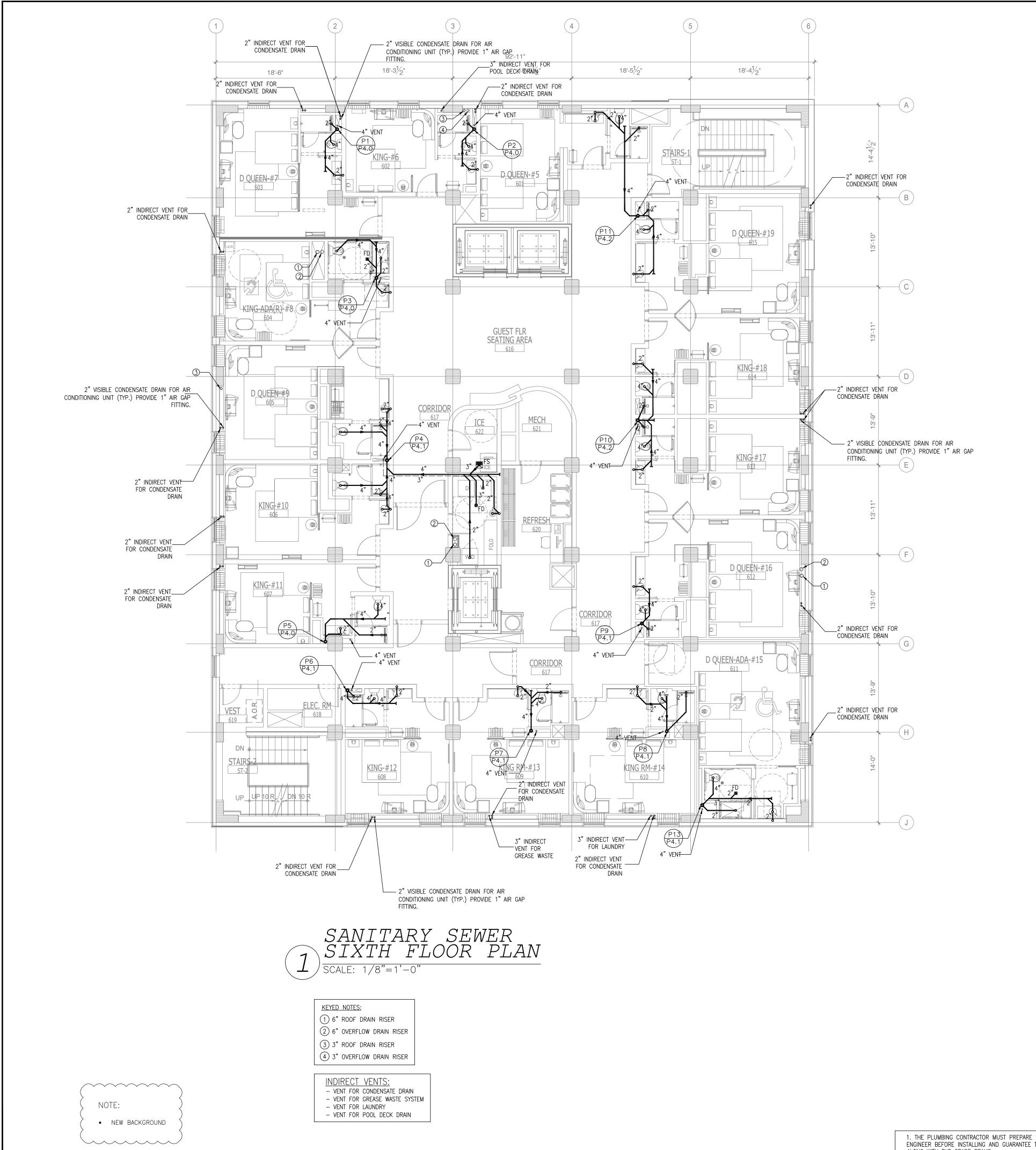
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FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

MAY 20, 2019

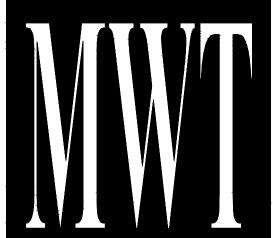


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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

MAY 20, 2019

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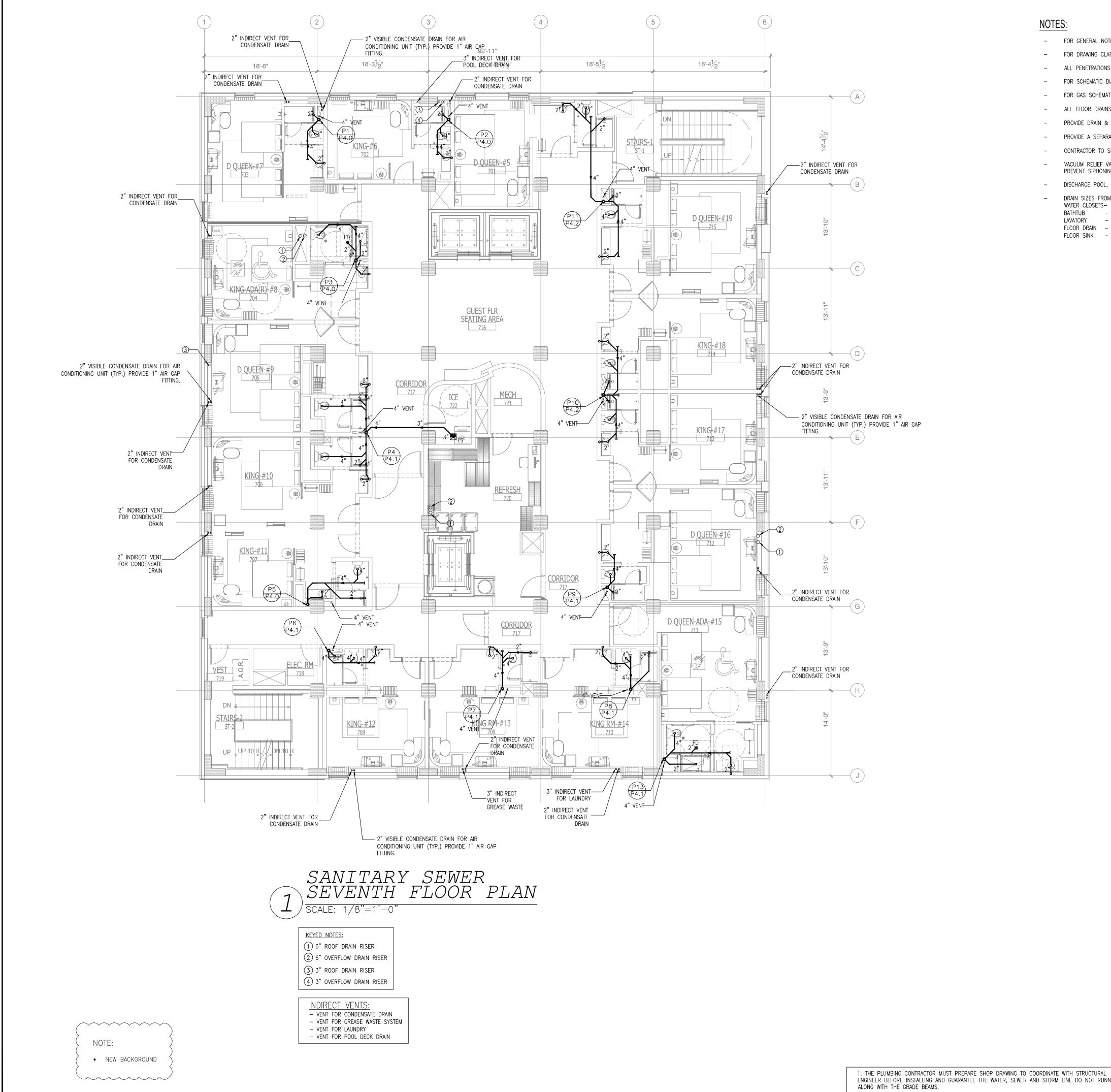
SANITARY SEWER SIXTH FLOOR PLAN

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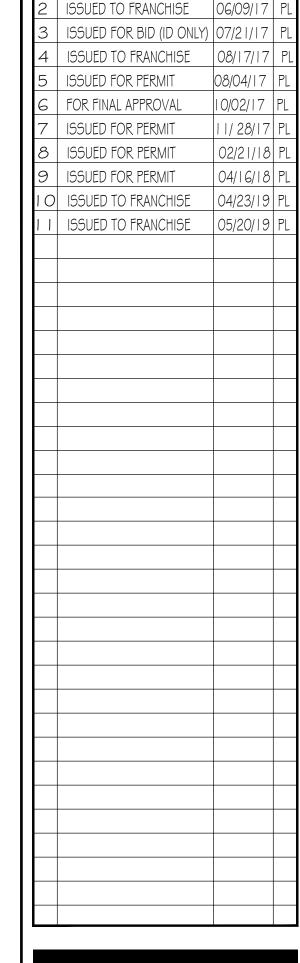
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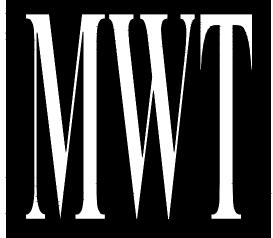


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DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17



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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL

MAY 20, 2019

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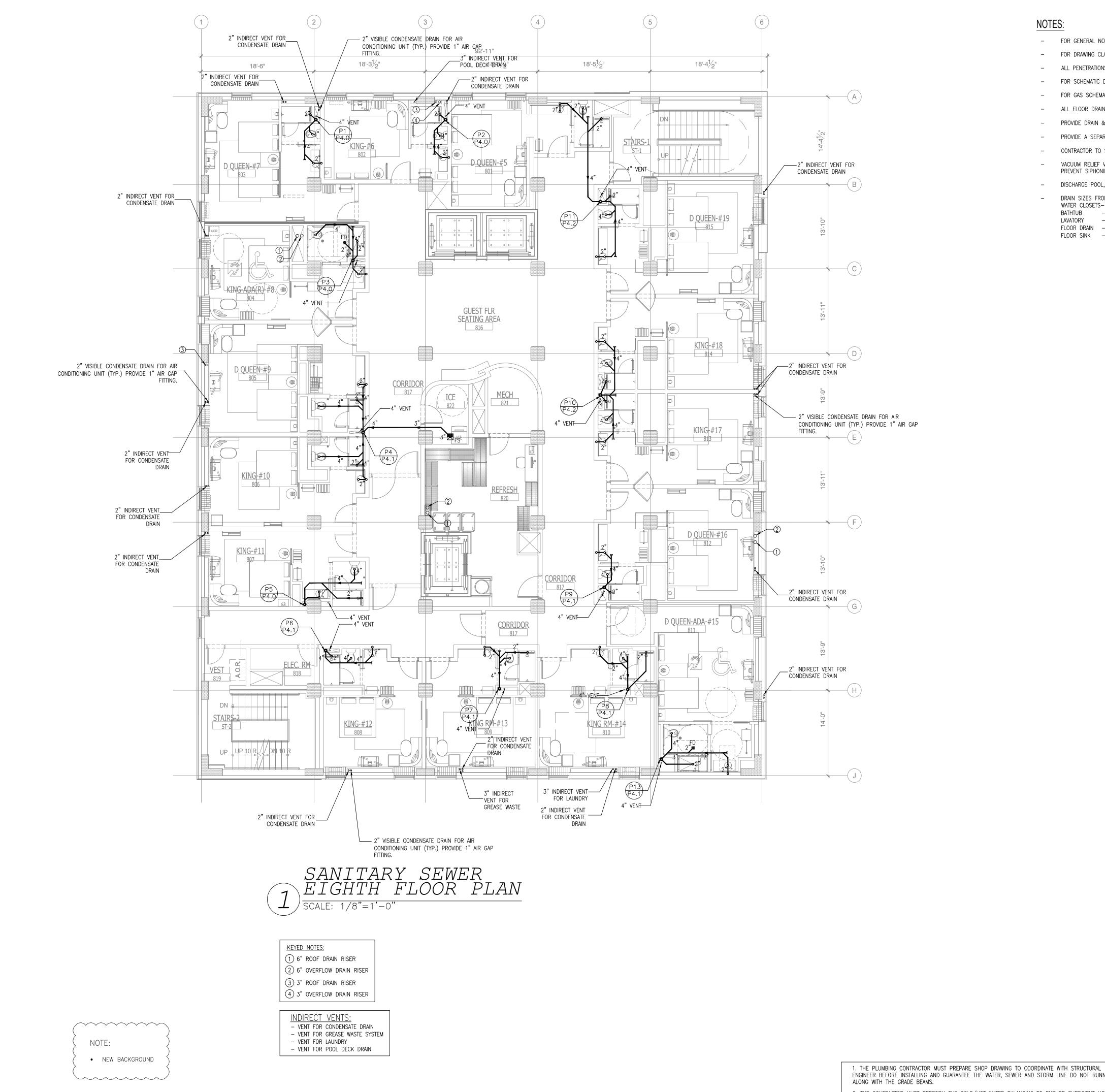
SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

CHKD. BY: DV SANITARY SEWER

SEVENTH FLOOR PLAN

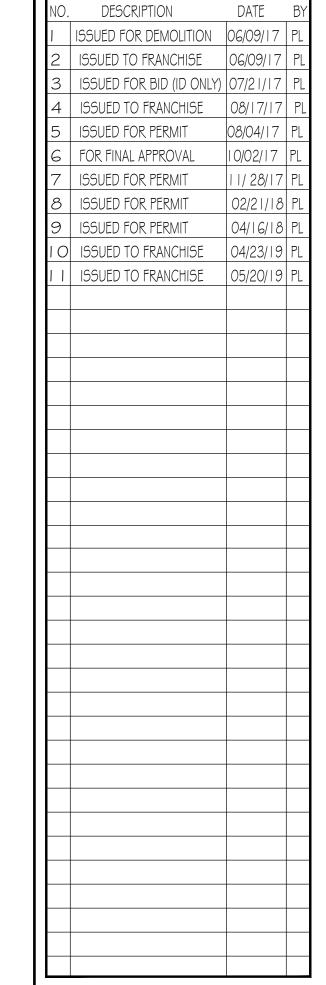
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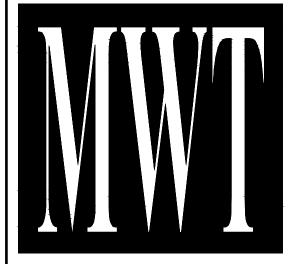
ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING





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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

MAY 20, 2019

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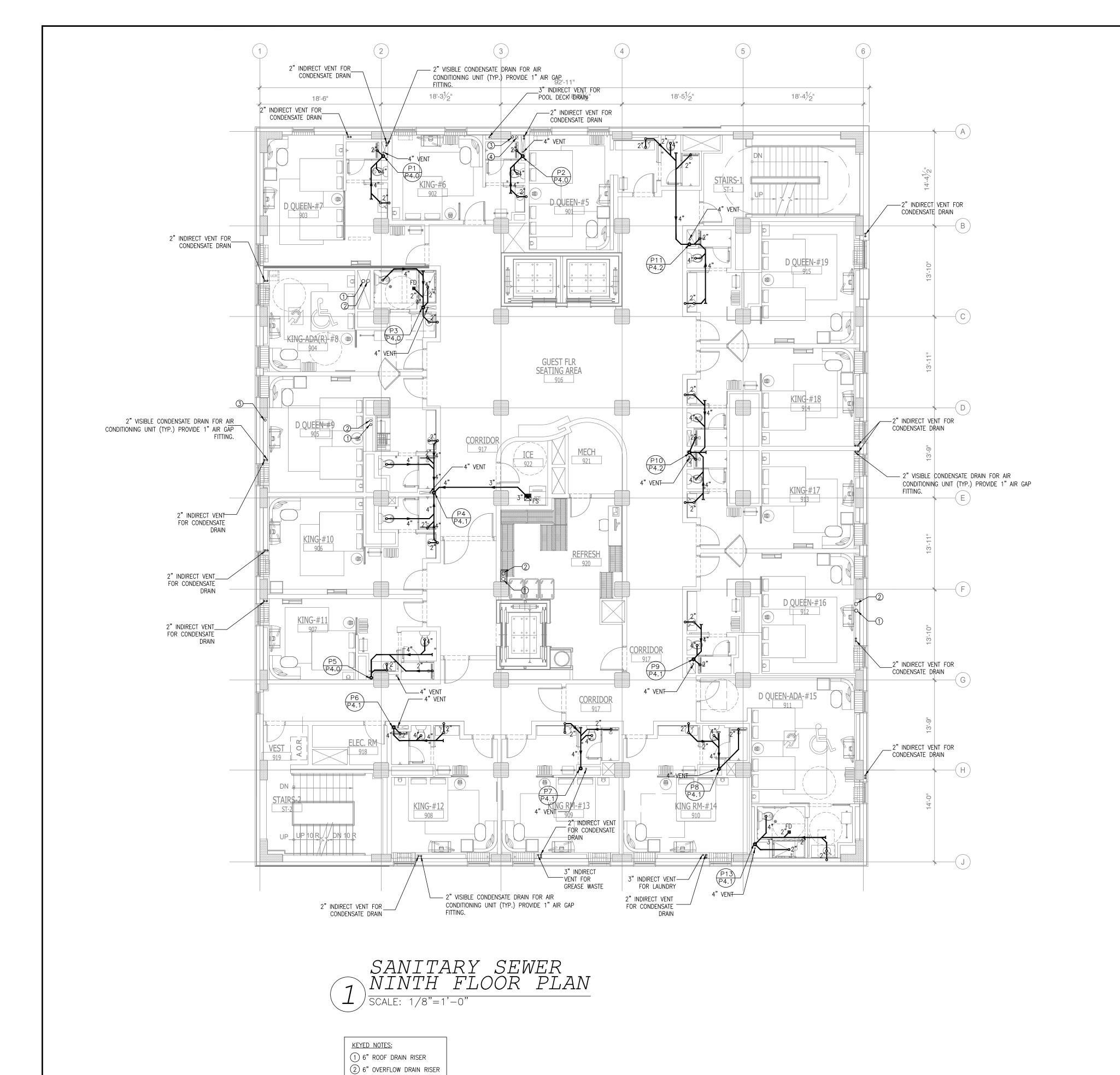
DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

SANITARY SEWER EIGHTH FLOOR PLAN

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(3) 3" ROOF DRAIN RISER

INDIRECT VENTS:

VENT FOR LAUNDRY

NEW BACKGROUND

(4) 3" OVERFLOW DRAIN RISER

- VENT FOR CONDENSATE DRAIN

- VENT FOR POOL DECK DRAIN

- VENT FOR GREASE WASTE SYSTEM

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ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17

ISSUED FOR BID (ID ONLY) 07/21/17



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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

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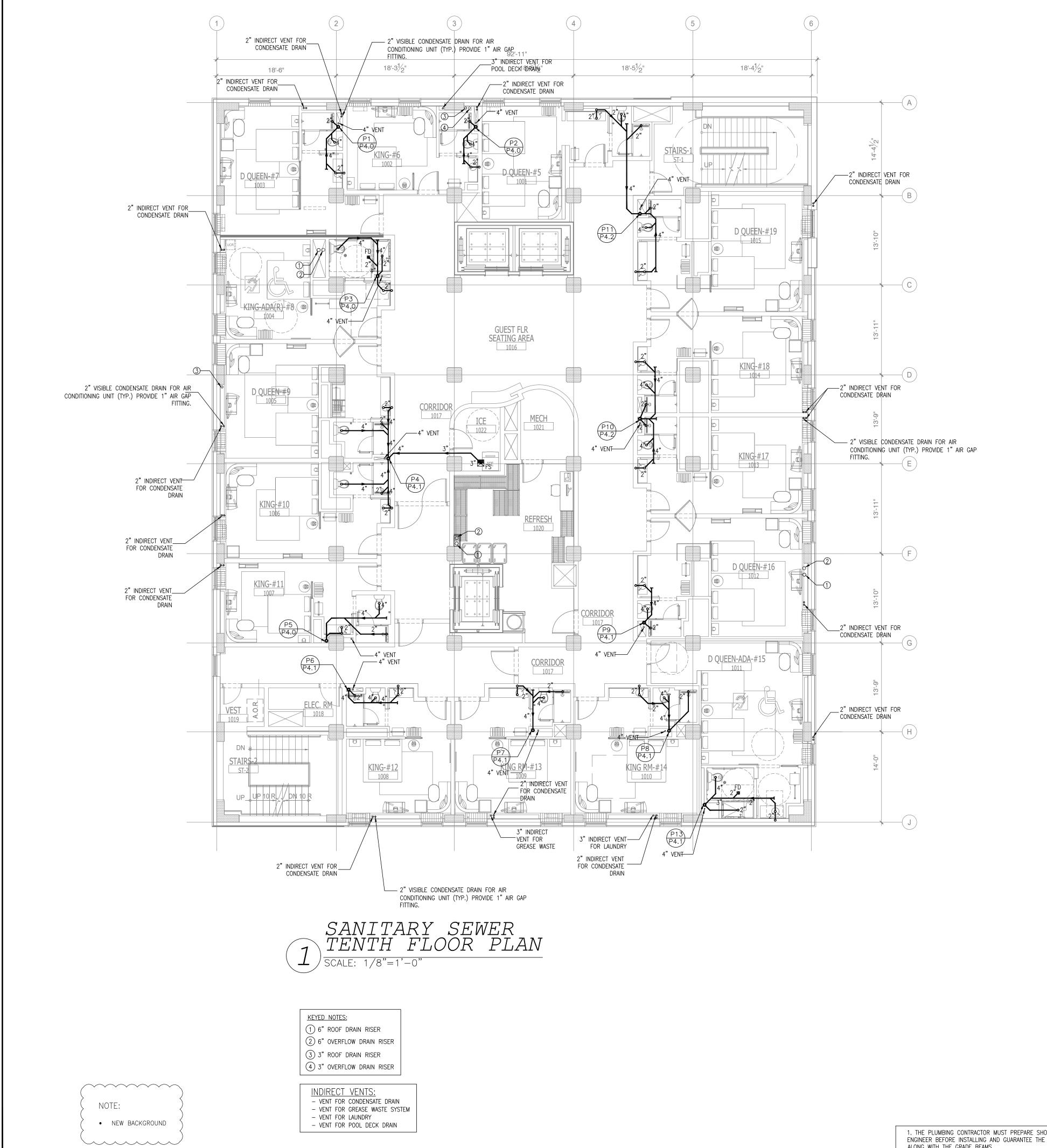
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PROJECT NO.: 16 006

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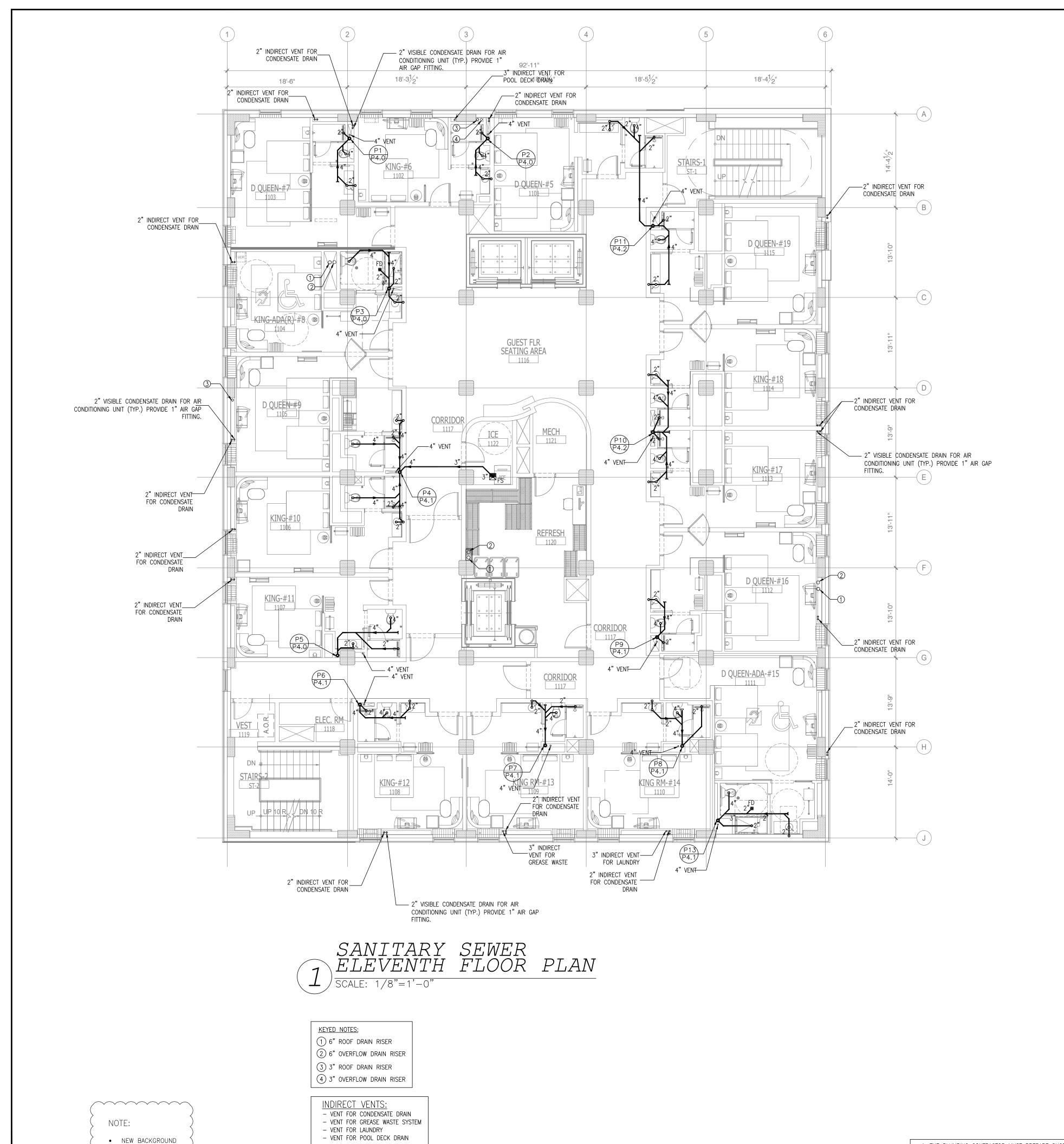
SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

DATE: 07-21-2017 DRAWN BY: PL

SANITARY SEWER TENTH FLOOR PLAN

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED





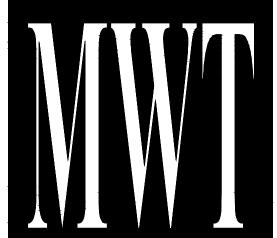
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- PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
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- DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
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- LAVATORY 2"ø
- FLOOR DRAIN 2"ø FLOOR SINK - 3"ø

4 ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE ISSUED TO FRANCHISE 05/20/19 F

DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17

ISSUED FOR BID (ID ONLY) 07/21/17



ARCHITECTURE URBAN PLANNING **INTERIORS** HOTELS/ HOUSING/ MIXED USE 1800.630.3750 **CA-SERVICES** ca@mwtusa.com / 1800.717.5816

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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL

MAY 20, 2019

IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

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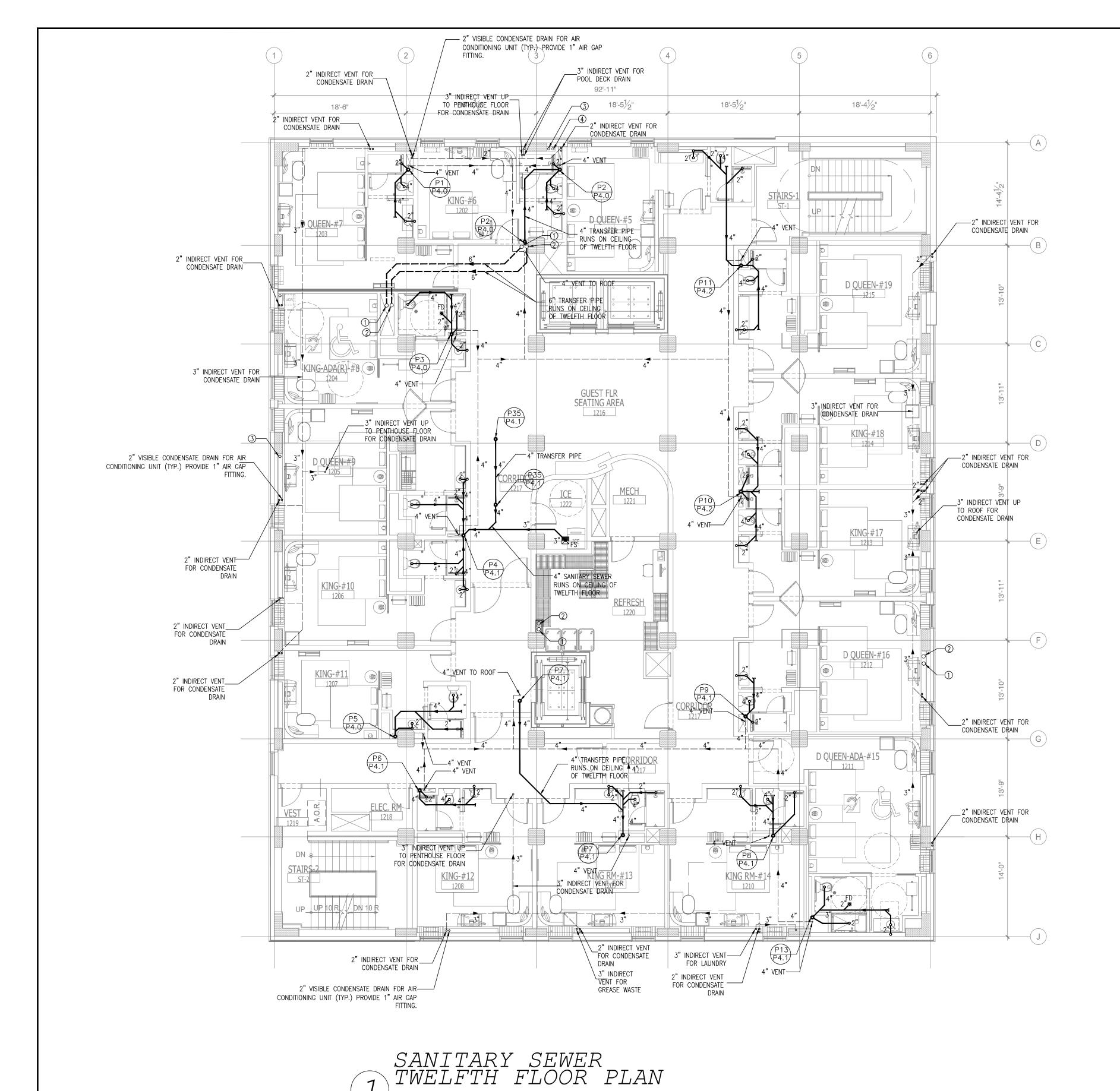
FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

CHKD. BY: DV SANITARY SEWER ELEVENTH FLOOR

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING

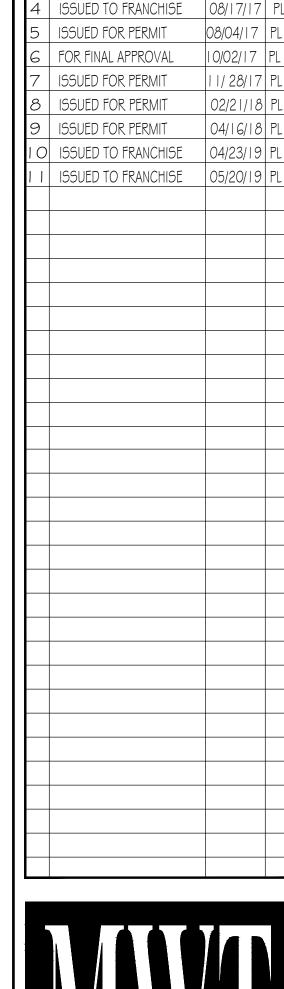
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- DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
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DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17

ISSUED FOR BID (ID ONLY) 07/21/17

DATE



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ALOFT **MEMPHIS DOWNTOWN**

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

MAY 20, 2019

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SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

SANITARY SEWER TWELFTH FLOOR PLAN

KEYED NOTES: 1) 6" ROOF DRAIN RISER

- (2) 6" OVERFLOW DRAIN RISER (3) 3" ROOF DRAIN RISER
- (4) 3" OVERFLOW DRAIN RISER
- **INDIRECT VENTS:**
- VENT FOR CONDENSATE DRAIN - VENT FOR GREASE WASTE SYSTEM VENT FOR LAUNDRY

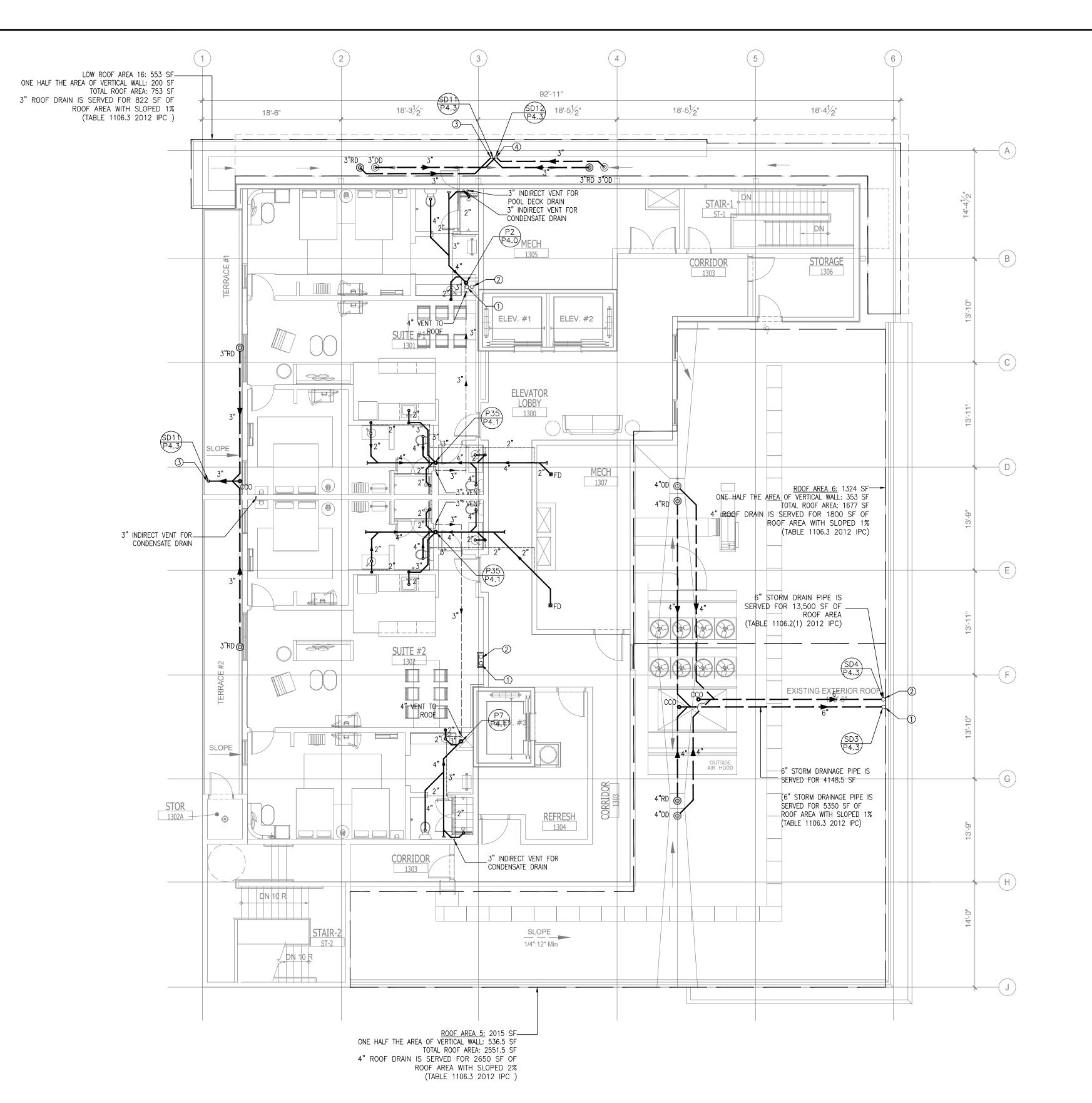
VENT FOR POOL DECK DRAIN

NEW BACKGROUND

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING

WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT



SANITARY SEWER PENTHOUSE FLOOR PLAN

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

(1) 6" ROOF DRAIN RISER (2) 6" OVERFLOW DRAIN RISER (3) 3" ROOF DRAIN RISER

(4) 3" OVERFLOW DRAIN RISER

INDIRECT VENTS:

VENT FOR LAUNDRY

- VENT FOR CONDENSATE DRAIN

- VENT FOR POOL DECK DRAIN

- VENT FOR GREASE WASTE SYSTEM

KEYED NOTES:

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- WATER CLOSETS- 4"ø
- BATHTUB 2"ø LAVATORY – 2"ø
- FLOOR DRAIN 2"ø FLOOR SINK - 3"ø

ROOF DRAIN CALCULATION:

	ROOF AREA	ONE HALF OF THE AREA OF VERTICAL WALL	TOTAL AREA	NO. OF R.D	SERVED AREA OF FA R.D.
ROOF AREA 5	2015	536.5	2551.5	1	2551.5
ROOF AREA 6	1324	353	1677	1	1677

BASE ON 2012 IPC TABLE 1106.3 AND APPENDIX B

- RAIN FALL IN INCHES PER HOUR: 4" (APPENDIX B)
- 4" ROOF DRAIN IS SERVED FOR 1,800 SF OF ROOF AREA WITH SLOPE 1% (TABLE 1106.3) - 4" ROOF DRAIN IS SERVED FOR 2,650 SF OF ROOF AREA WITH SLOPE 2% (TABLE 1106.3)
- => THE LARGEST DRAINAGE AREA FOR ONE ROOF DRAIN IS 1,800 SF (SLOPE 1%), 2650 SF
- (SLOPE 2%) OVER FLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D.

	ROOF AREA	ONE HALF OF THE AREA OF VERTICAL WALL	TOTAL AREA	NO. OF R.D	SERVED AREA OF FA R.D.
ROOF AREA 16	553	200	753	2	376.5

BASE ON 2012 IPC TABLE 1106.3 AND APPENDIX B

- RAIN FALL IN INCHES PER HOUR: 4" (APPENDIX B) - 3" ROOF DRAIN IS SERVED FOR 822 SF OF ROOF AREA WITH SLOPE 1% (TABLE 1106.3)
- => THE LARGEST DRAINAGE AREA FOR ONE ROOF DRAIN IS 822 SF (SLOPE 1%) OVER FLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D

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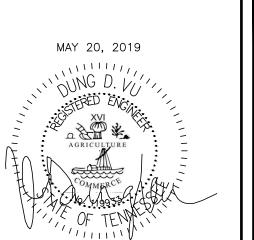
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	ROOF AREA	ONE HALF OF THE AREA OF VERTICAL WALL	TOTAL AREA	NO. OF R.D	SERVED AREA OF FA R.D.
TERRACE 1	210	209	420	1	420
TERRACE 2	210	209	420	1	420

BASE ON 2012 IPC TABLE 1106.3 AND APPENDIX B

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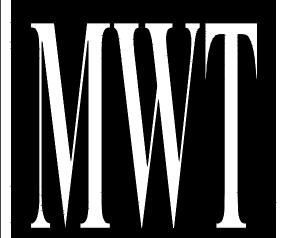
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DESCRIPTION

4 ISSUED TO FRANCHISE

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17

ISSUED FOR BID (ID ONLY) 07/21/17



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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL

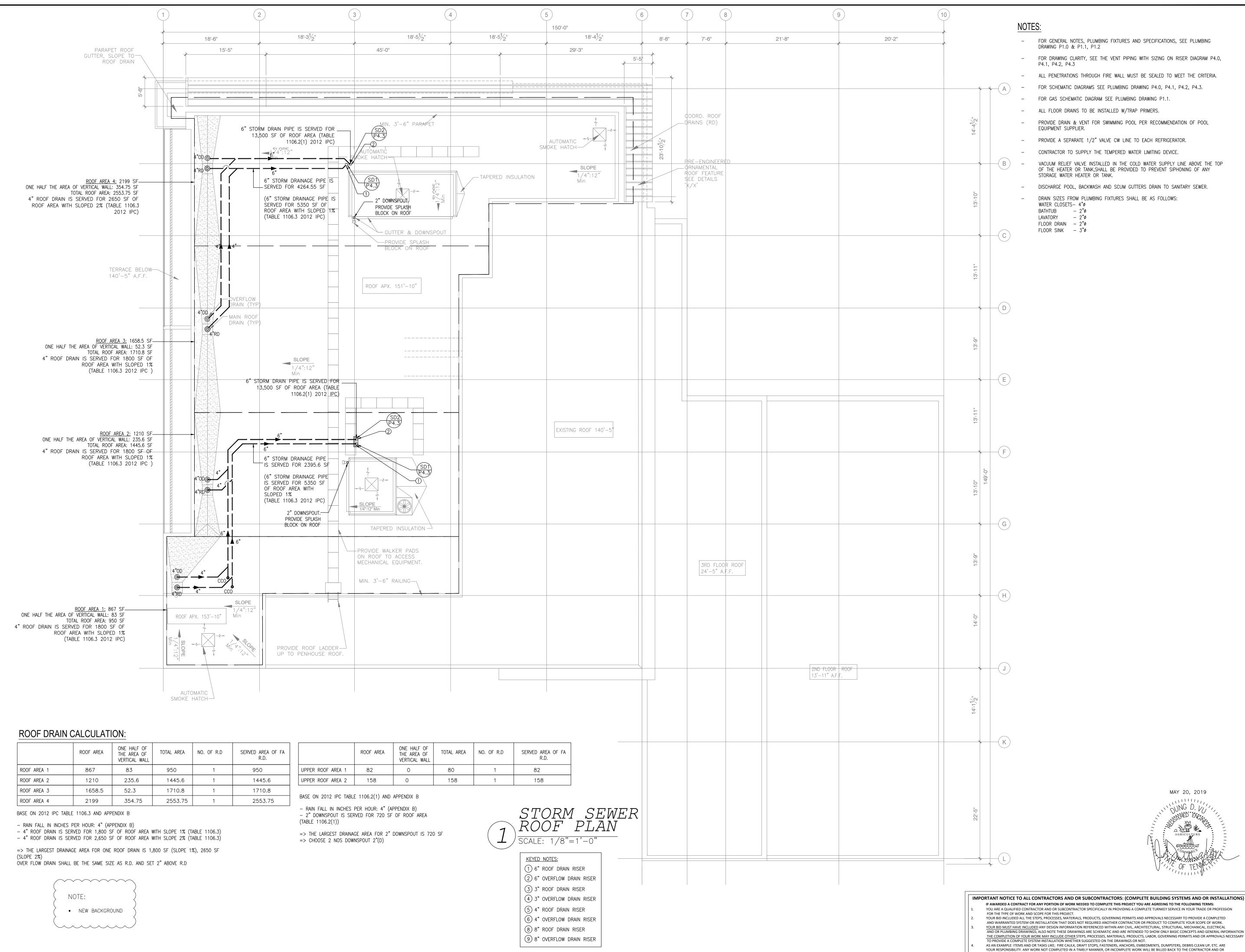
CHKD. BY: DV SANITARY SEWER PENTHOUSE FLOOR

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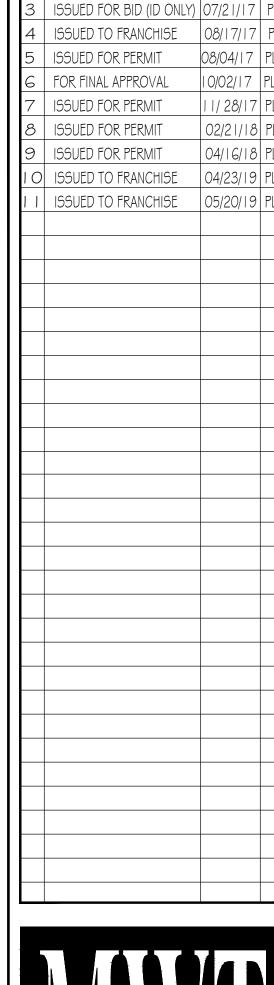
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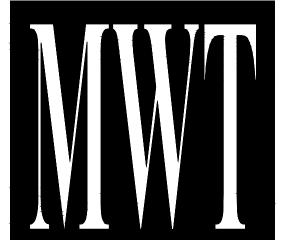


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ALOFT **MEMPHIS DOWNTOWN**

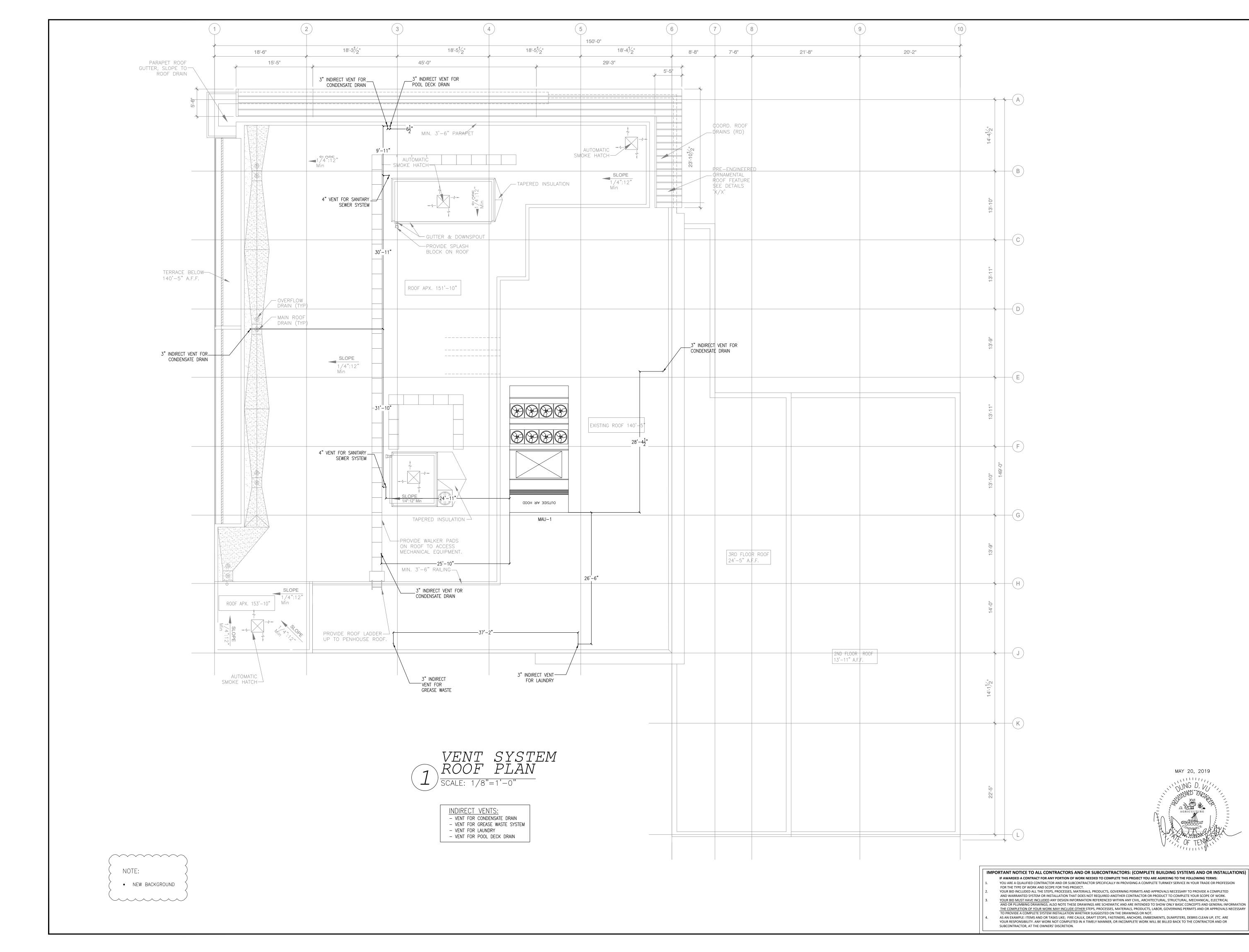
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

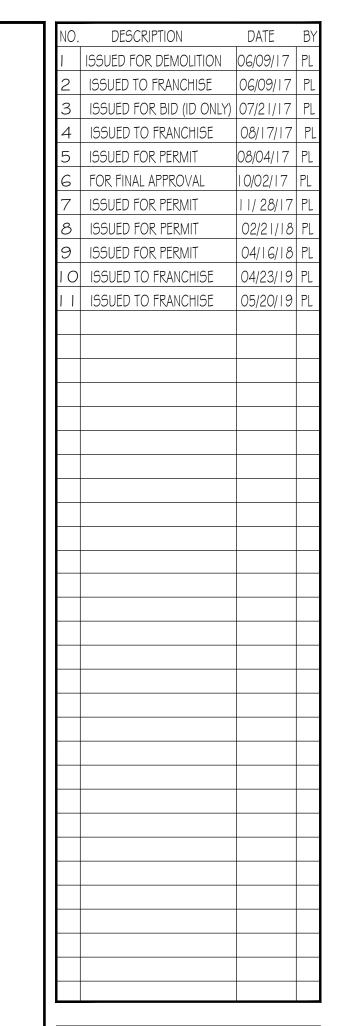
PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV

MAY 20, 2019

STORM SEWER **ROOF PLAN**







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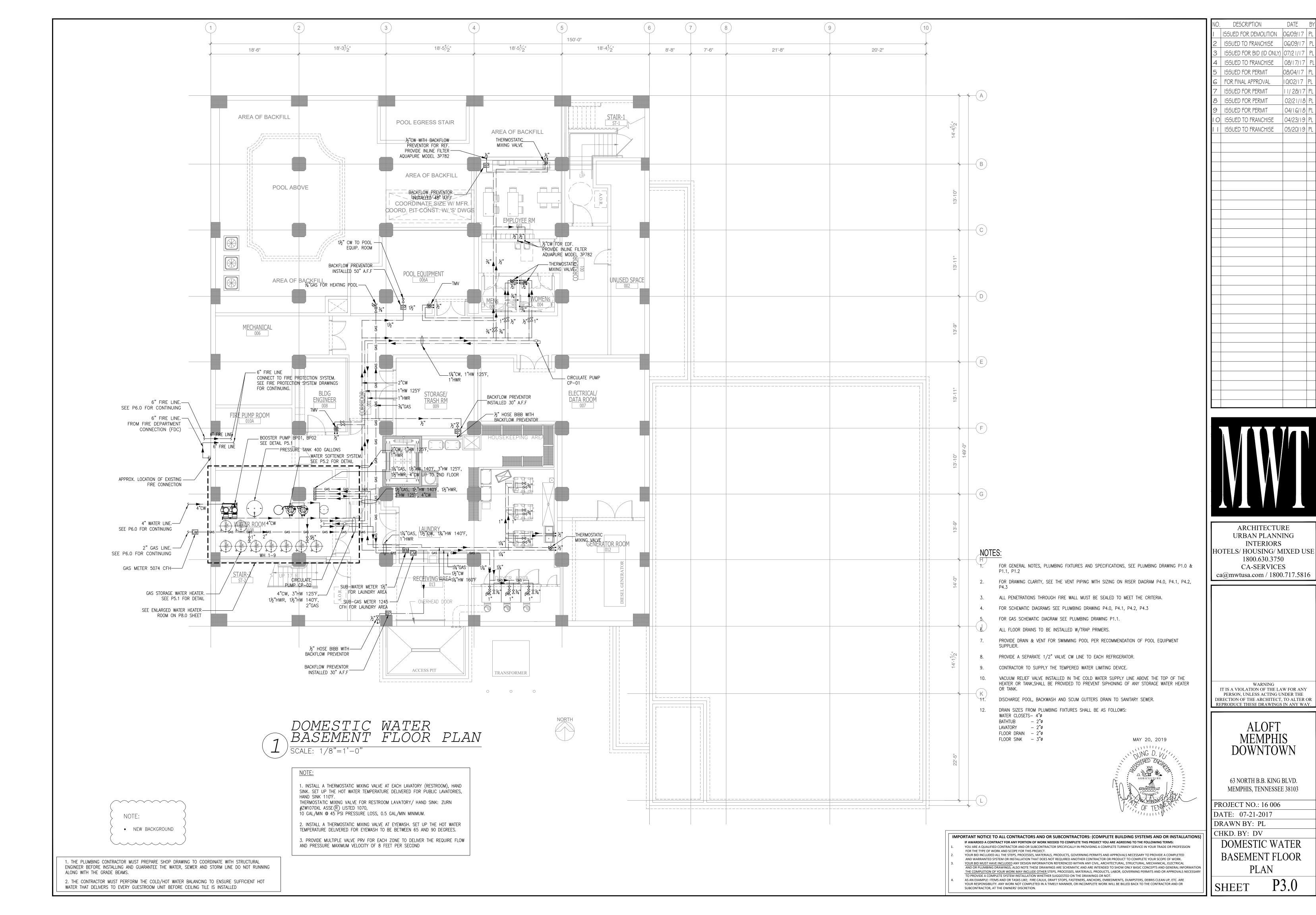
MAY 20, 2019

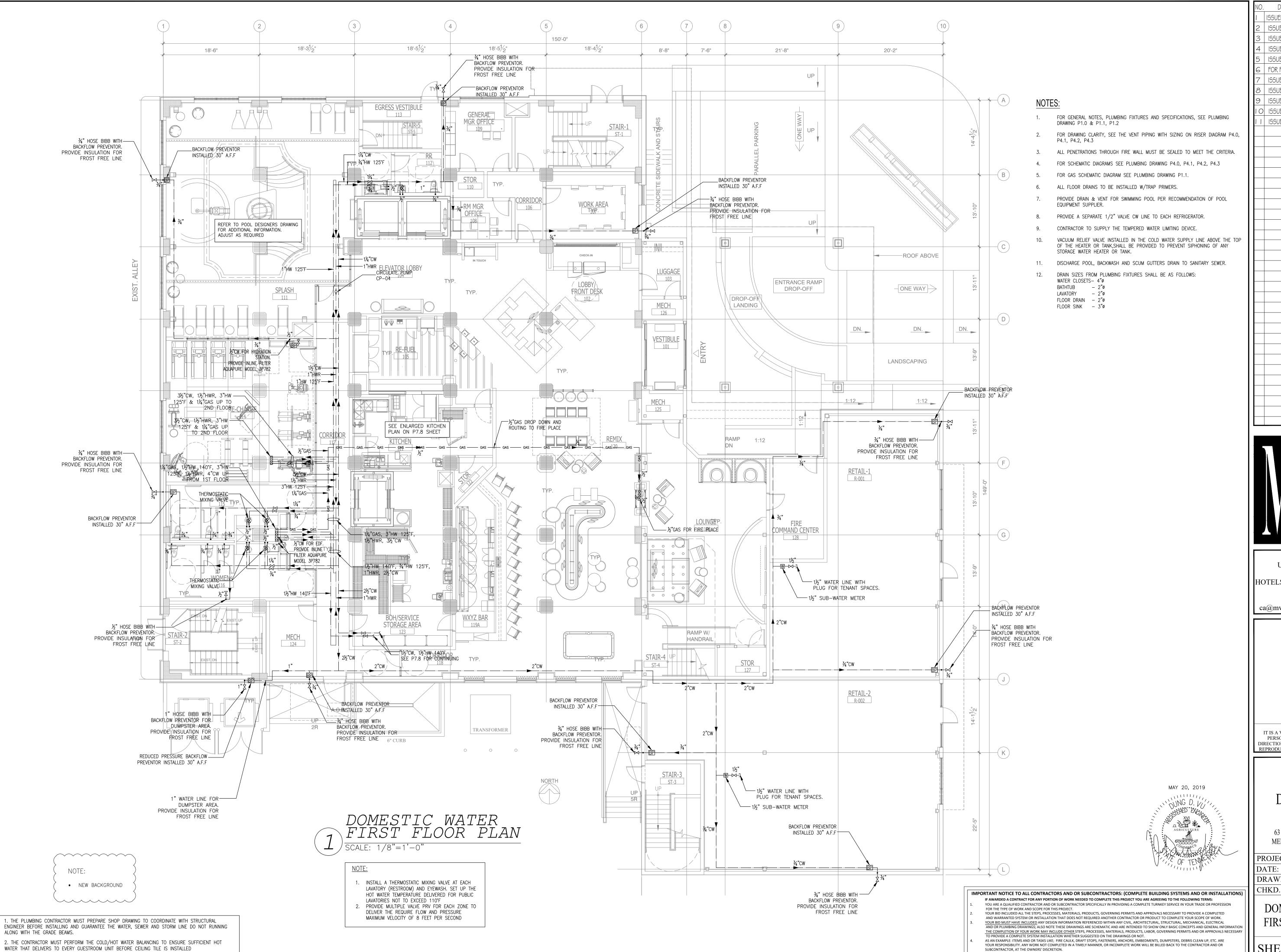
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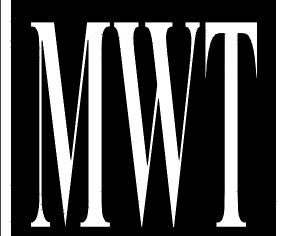
DRAWN BY: PL CHKD. BY: DV

VENT SYSTEM ROOF PLAN





NO. DESCRIPTION DATE BY
I ISSUED FOR DEMOLITION 06/09/17 PL
2 ISSUED TO FRANCHISE 06/09/17 PL
3 ISSUED FOR BID (ID ONLY) 07/21/17 PL
4 ISSUED TO FRANCHISE 08/17/17 PL
5 ISSUED FOR PERMIT 08/04/17 PL
6 FOR FINAL APPROVAL 10/02/17 PL
7 ISSUED FOR PERMIT 02/21/18 PL
9 ISSUED FOR PERMIT 04/16/18 PL
10 ISSUED FOR PERMIT 04/16/18 PL
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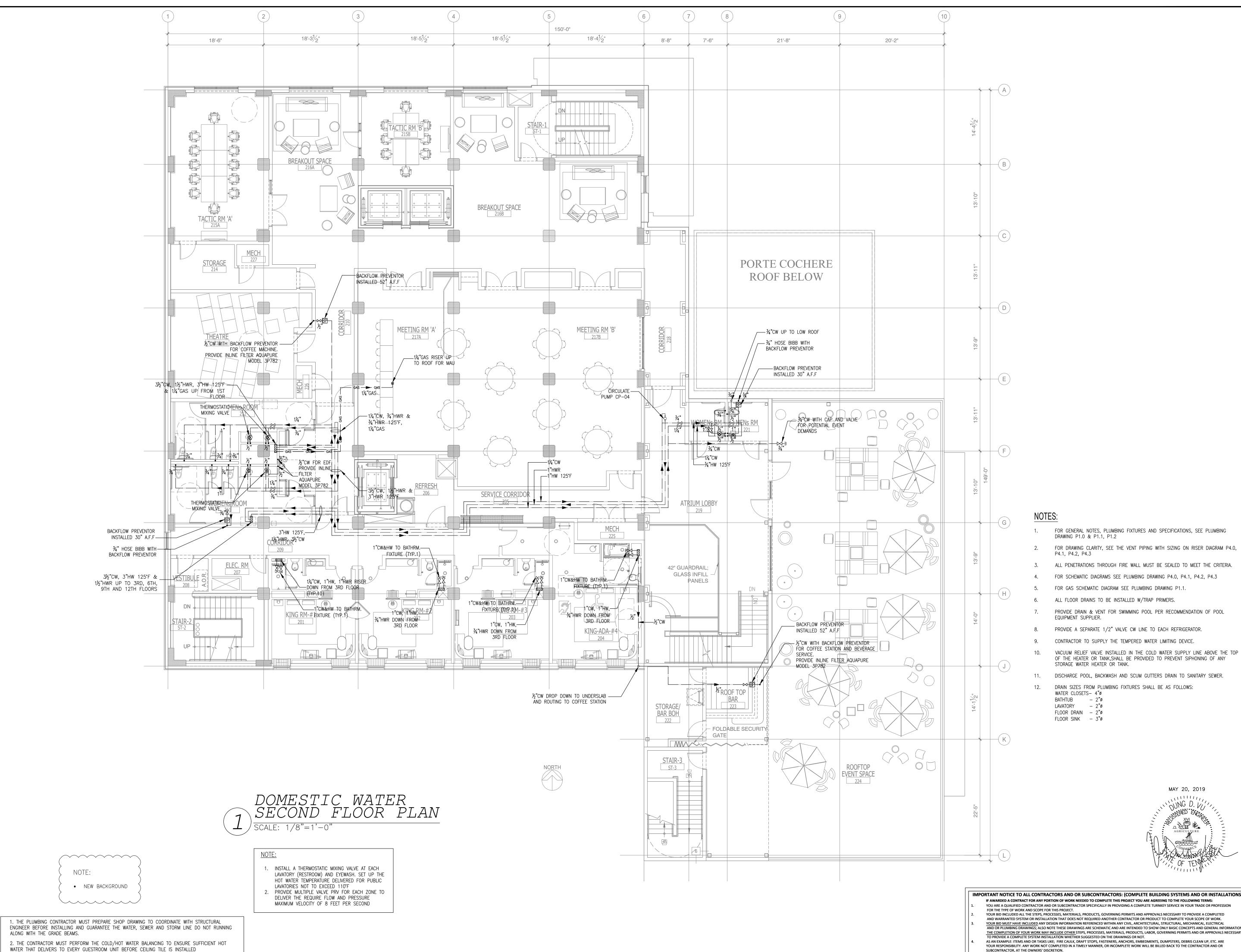
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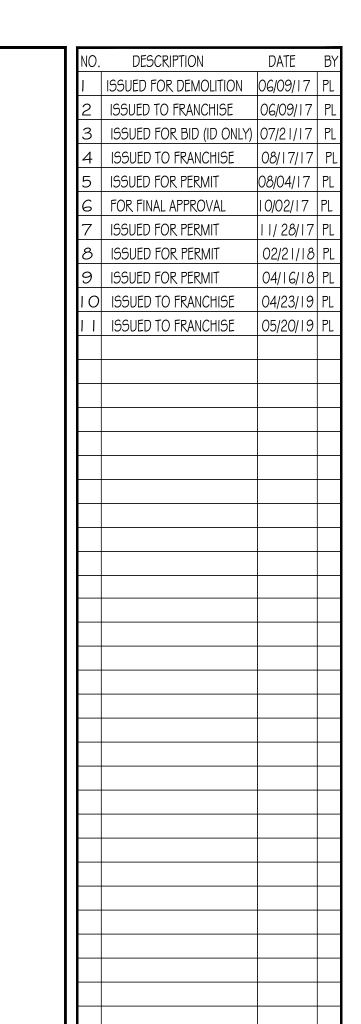
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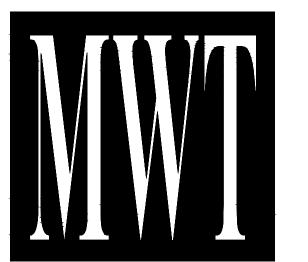
DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER FIRST FLOOR PLAN

SHEET







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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

CHKD. BY: DV

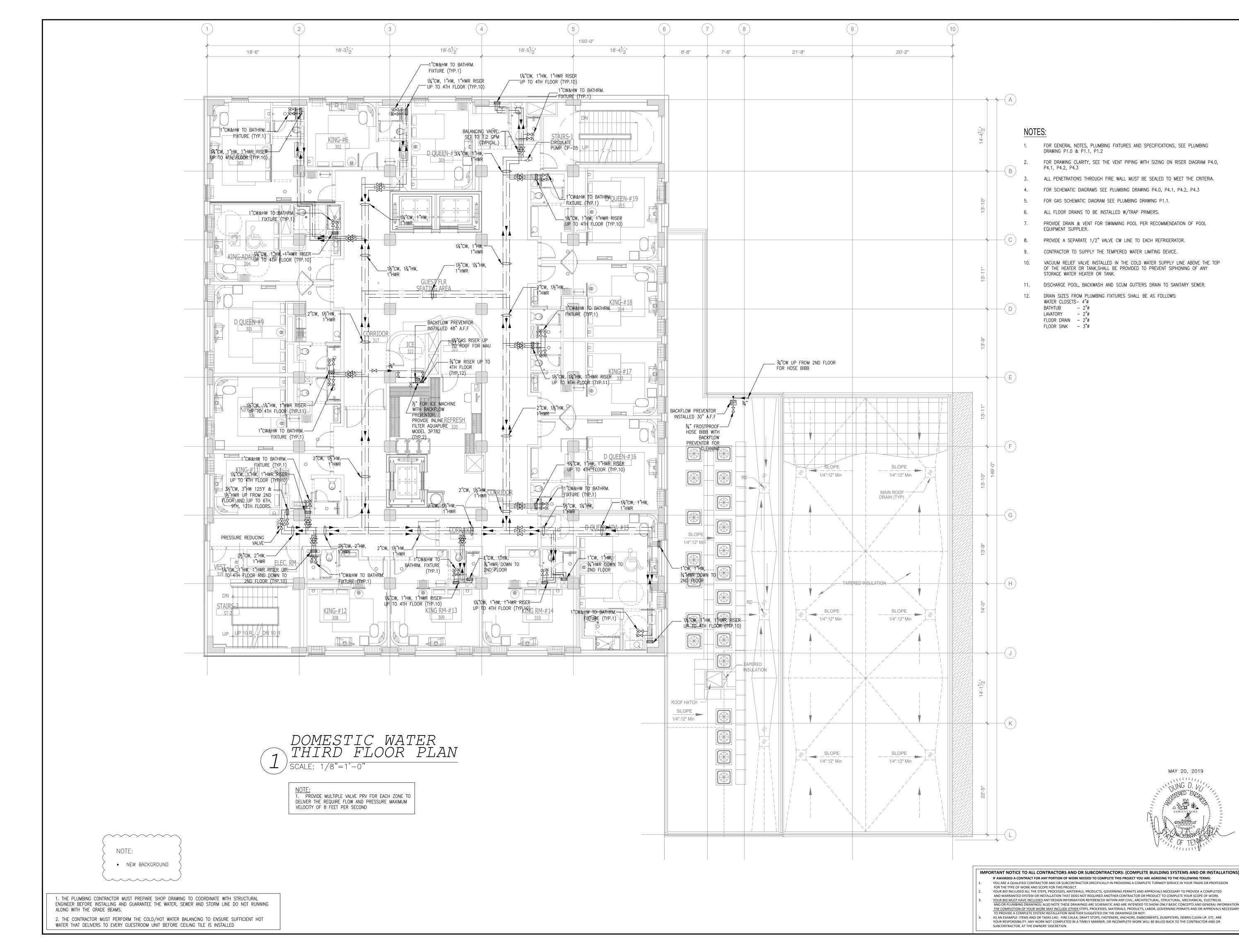
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DOMESTIC WATER SECOND FLOOR PLAN

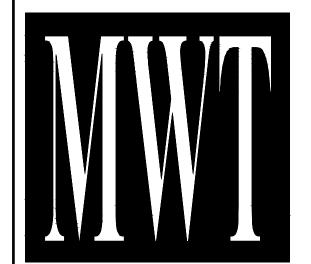
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MAY 20, 2019



NO. DESCRIPTION DATE BY
I ISSUED FOR DEMOLITION 06/09/17 PL
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9 ISSUED FOR PERMIT 04/16/18 PL
10 ISSUED TO FRANCHISE 04/23/19 PL
11 ISSUED TO FRANCHISE 05/20/19 PL
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ALOFT MEMPHIS DOWNTOWN

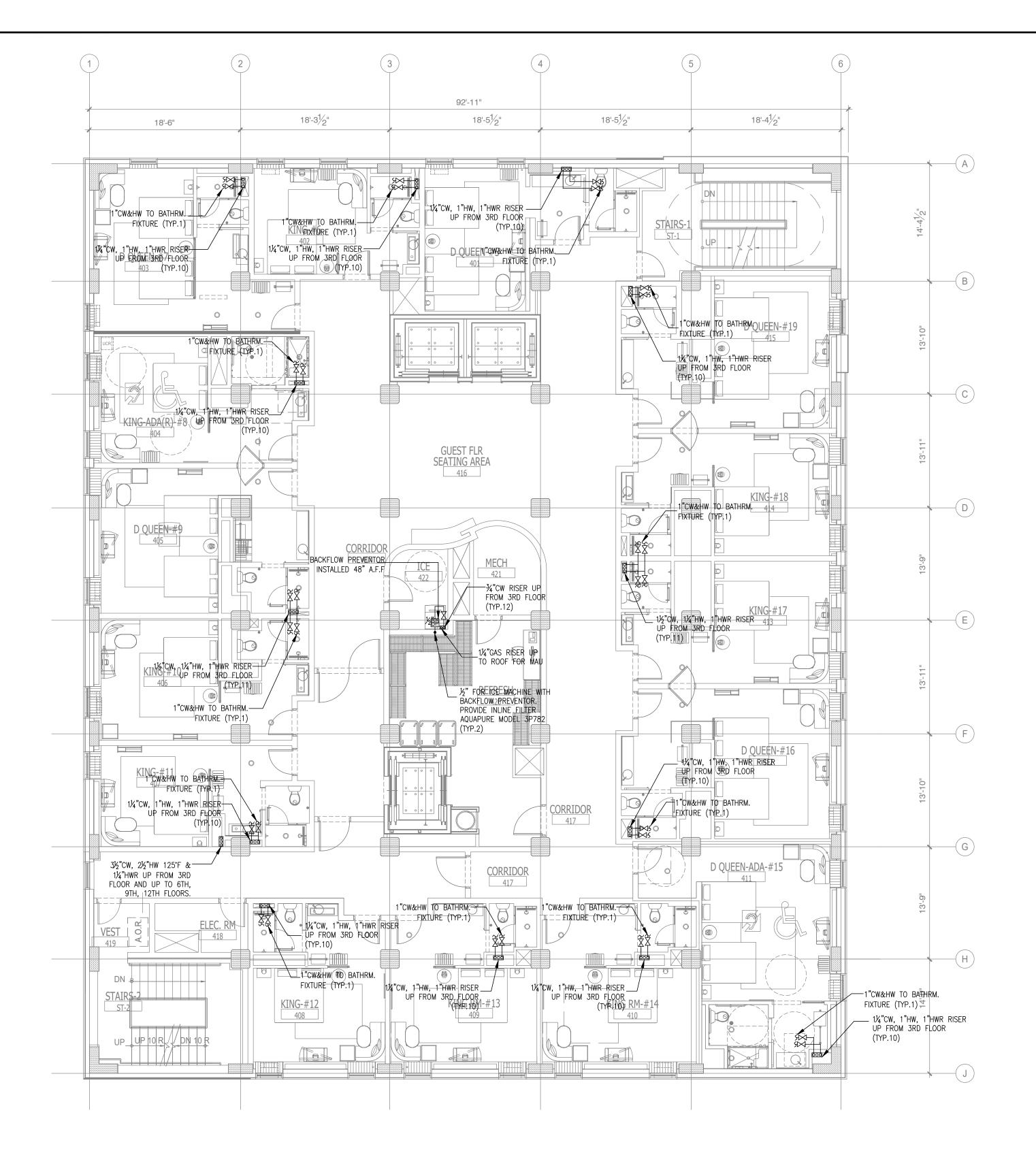
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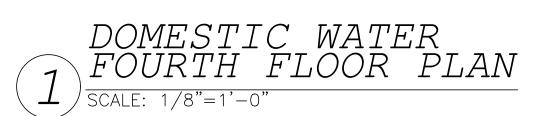
PROJECT NO.: 16 006 DATE: 07-21-2017

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER THIRD FLOOR PLAN

SHEET P





NOTE:

1. PROVIDE MULTIPLE VALVE PRV FOR EACH ZONE TO DELIVER THE REQUIRE FLOW AND PRESSURE MAXIMUM VELOCITY OF 8 FEET PER SECOND

NOTE:

• NEW BACKGROUND

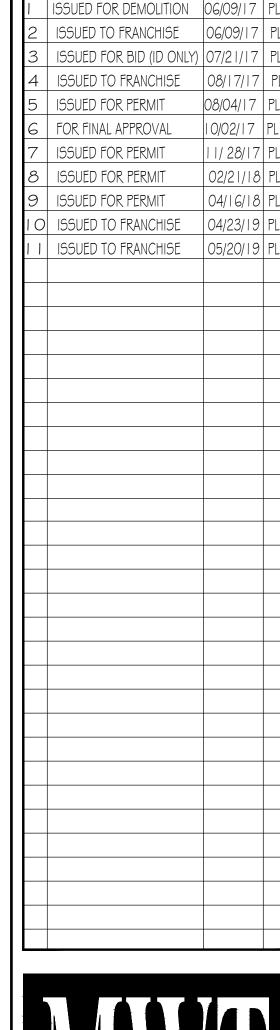
1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

NOTE

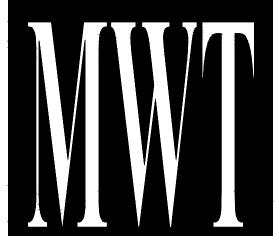
- 1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0 & P1.1, P1.2
- 2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1, P4.2, P4.3
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3
 5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- O. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- 11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS— $4\rlap{\,"}\phi$ BATHTUB $2\rlap{\,"}\phi$

BATHTUB - 2" Ø
LAVATORY - 2" Ø
FLOOR DRAIN - 2" Ø
FLOOR SINK - 3" Ø



DESCRIPTION

DATE



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ALOFT MEMPHIS DOWNTOWN

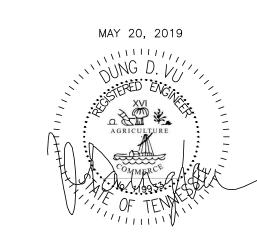
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER FOURTH FLOOR PLAN

SHEET



IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

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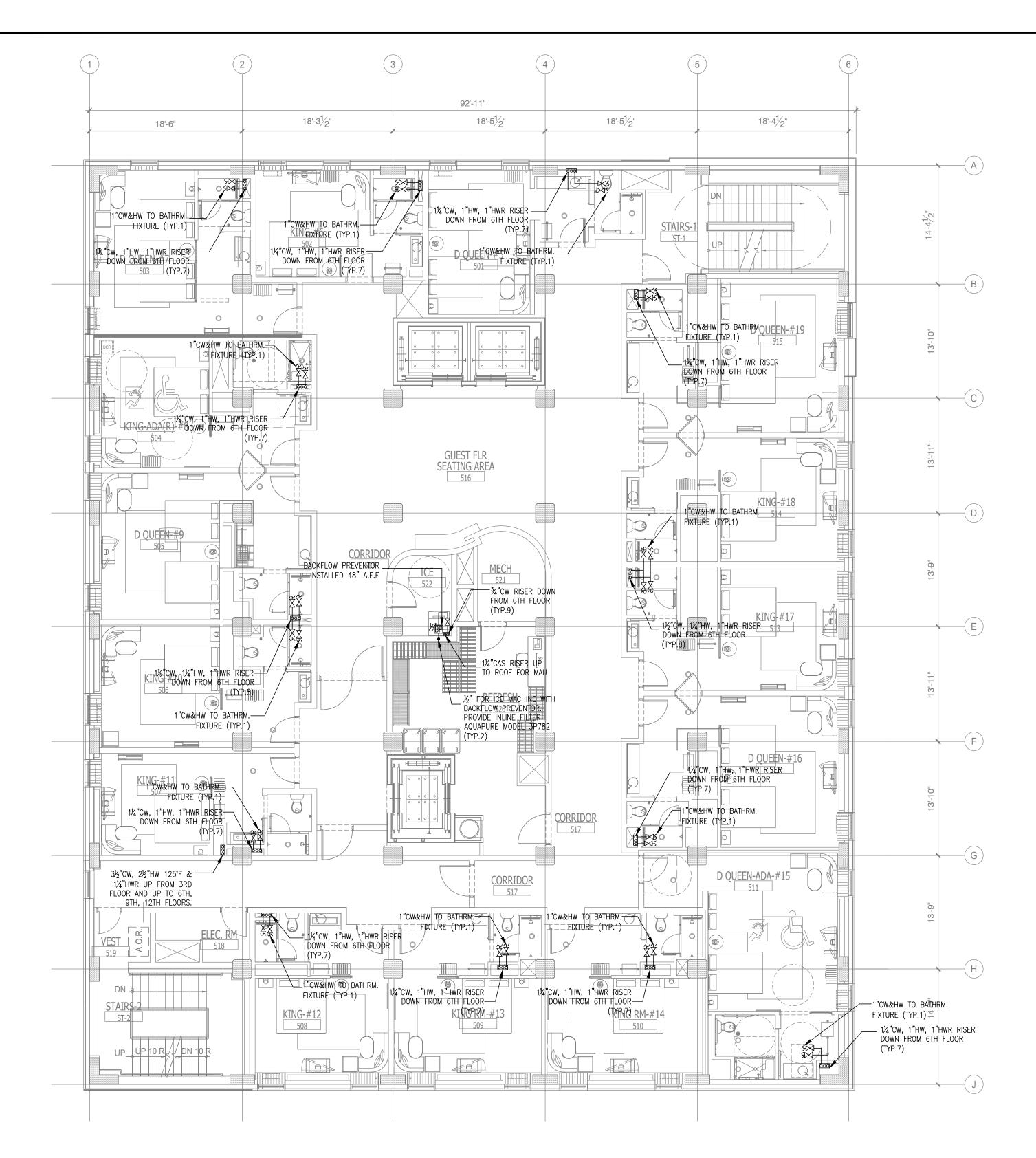
2. YOUR BID INCLUDED ALL THE STEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

3. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL

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SUBCONTRACTOR, AT THE OWNERS' DISCRETION.



DOMESTIC WATER FIFTH FLOOR PLAN SCALE: 1/8"=1'-0"

NOTE:

• NEW BACKGROUND

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

NOTES:

- 1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0 & P1.1, P1.2
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- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3
- FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
 ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- O. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- 11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS— 4"ø

BATHTUB - 2"ø LAVATORY - 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø | I | ISSUED FOR DEMOLITION | OG/09/17 | PL
2 | ISSUED TO FRANCHISE | OG/09/17 | PL
3 | ISSUED FOR BID (ID ONLY) | O7/21/17 | PL
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ALOFT MEMPHIS DOWNTOWN

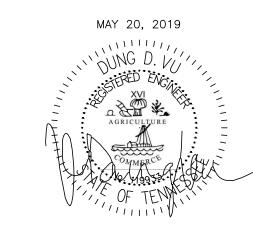
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER FIFTH FLOOR PLAN

SHEET



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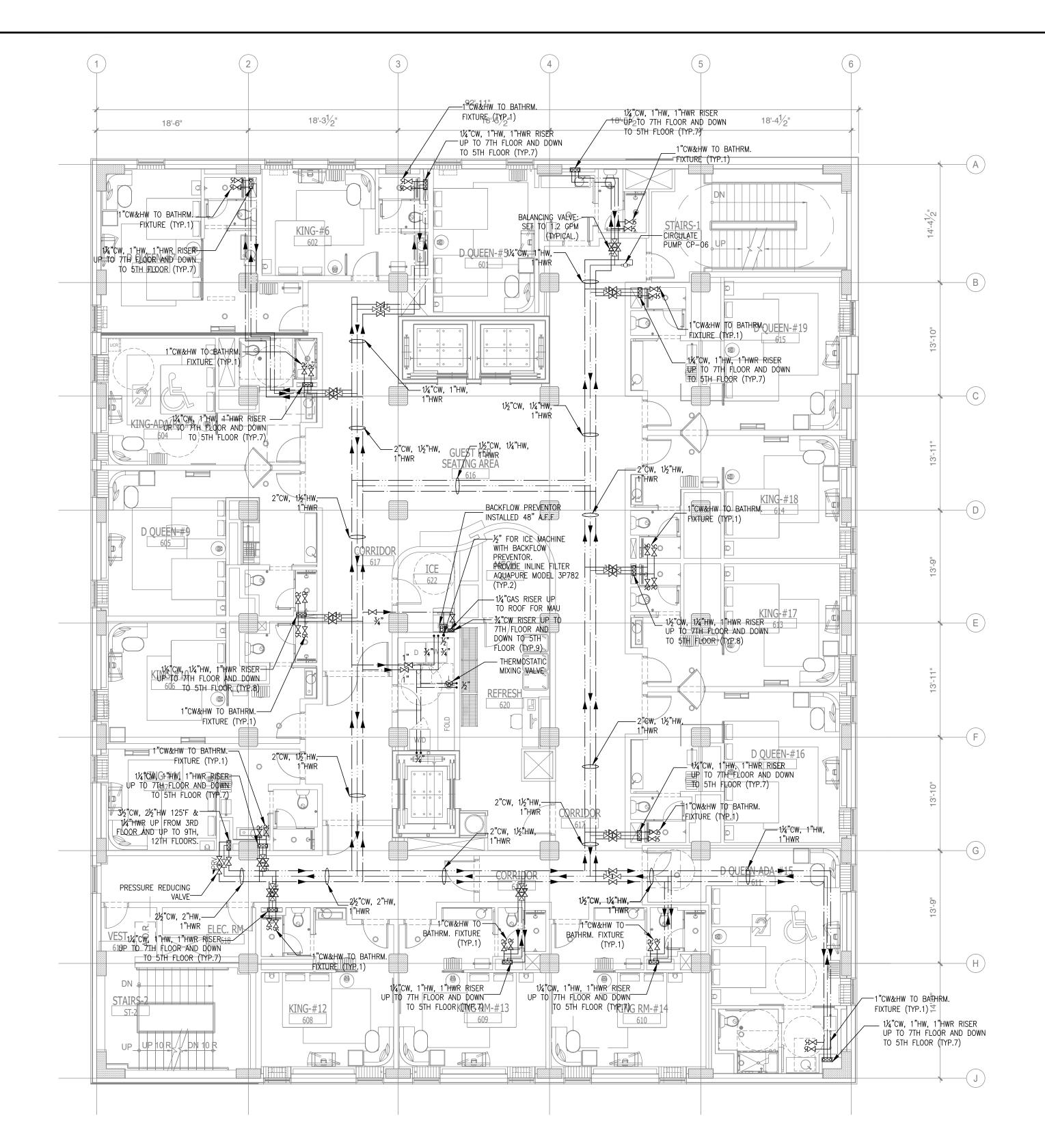
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AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATIO



DOMESTIC WATER SIXTH FLOOR PLAN

PROVIDE MULTIPLE VALVE PRV FOR EACH ZONE TO DELIVER THE REQUIRE FLOW AND PRESSURE MAXIMUM VELOCITY OF 8 FEET PER SECOND

. INSTALL A THERMOSTATIC MIXING VALVE AT EYEWASH. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR EYEWASH TO BE BETWEEN 65 AND 90 DEGREES.

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

NOTE:

NEW BACKGROUND

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1, P4.2, P4.3

3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.

FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3

5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.

6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.

7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.

PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.

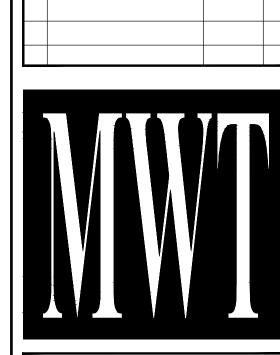
CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.

VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.

11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.

12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS- 4"ø BATHTUB – 2"ø

LAVATORY – 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø



DESCRIPTION

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FOR FINAL APPROVAL

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ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 ISSUED FOR BID (ID ONLY) 07/21/17

DATE

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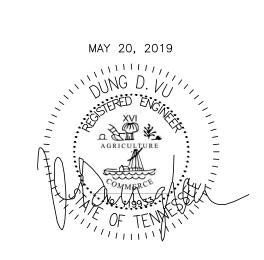
ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

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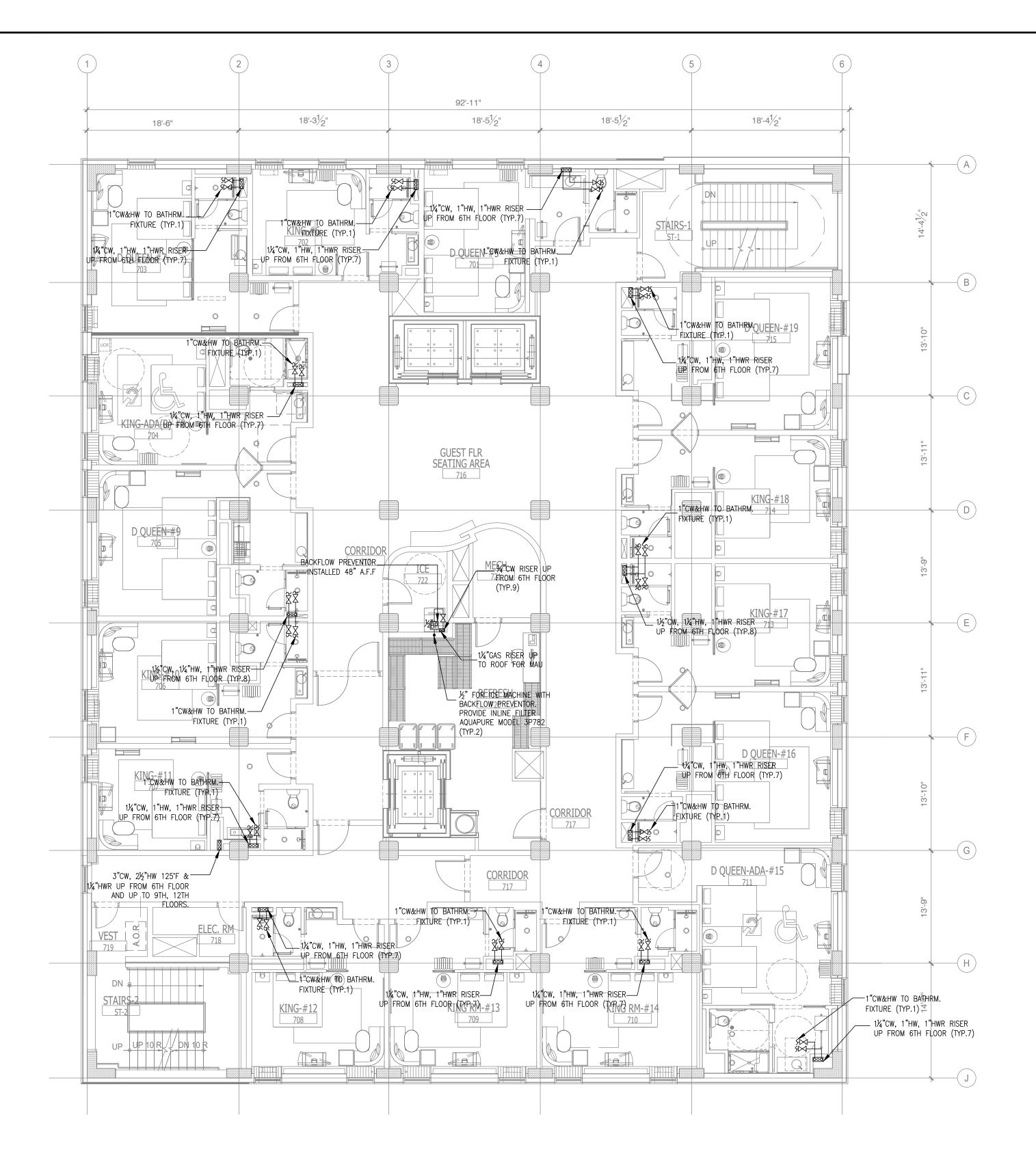
DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER SIXTH FLOOR PLAN



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DOMESTIC WATER SEVENTH FLOOR PLAN

NEW BACKGROUND

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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- FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.

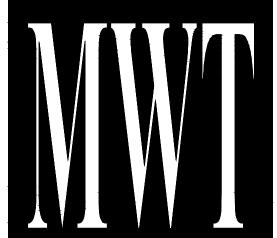
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.

- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- 11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS- 4"ø BATHTUB – 2"ø

LAVATORY – 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø

ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 3 | ISSUED FOR BID (ID ONLY) | 07/21/17 4 ISSUED TO FRANCHISE 5 ISSUED FOR PERMIT FOR FINAL APPROVAL 7 ISSUED FOR PERMIT 8 ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE ISSUED TO FRANCHISE 05/20/19 F

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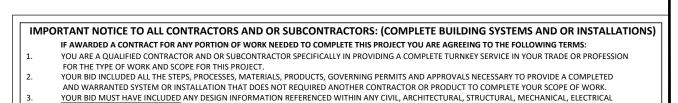
> ALOFT **MEMPHIS DOWNTOWN**

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER SEVENTH FLOOR PLAN

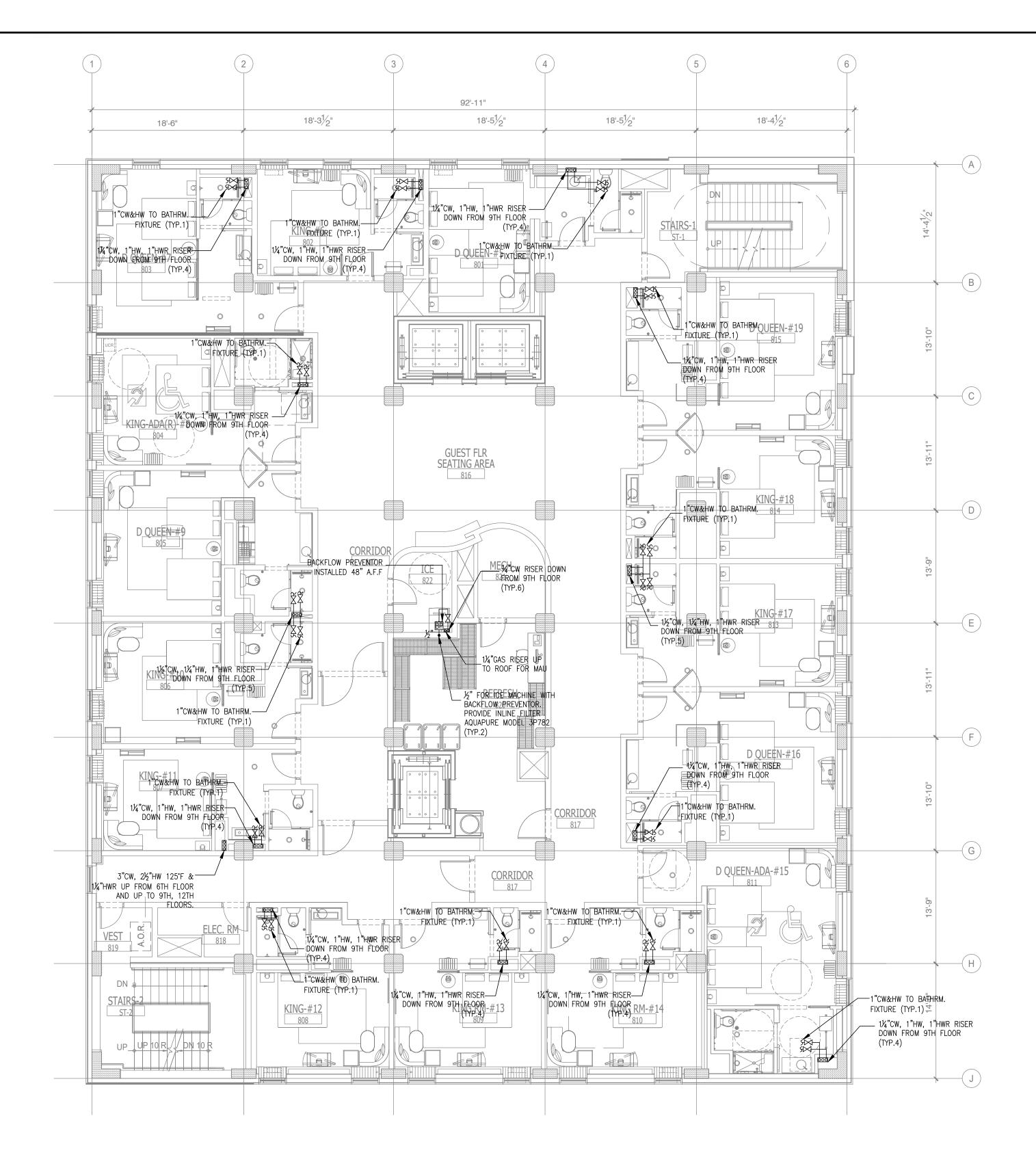


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MAY 20, 2019



DOMESTIC WATER EIGHTH FLOOR PLAN SCALE: 1/8"=1'-0"

NOTE:

• NEW BACKGROUND

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

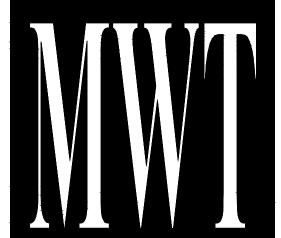
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- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- 11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS— $4^{\prime\prime}\phi$

BATHTUB - 2"ø LAVATORY - 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø

DESCRIPTION

ISSUED FOR DEMOLITION 06/09/17



ARCHITECTURE
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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

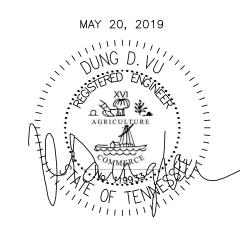
PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV

DOMESTIC WATER EIGHTH FLOOR PLAN

||SHEET | B



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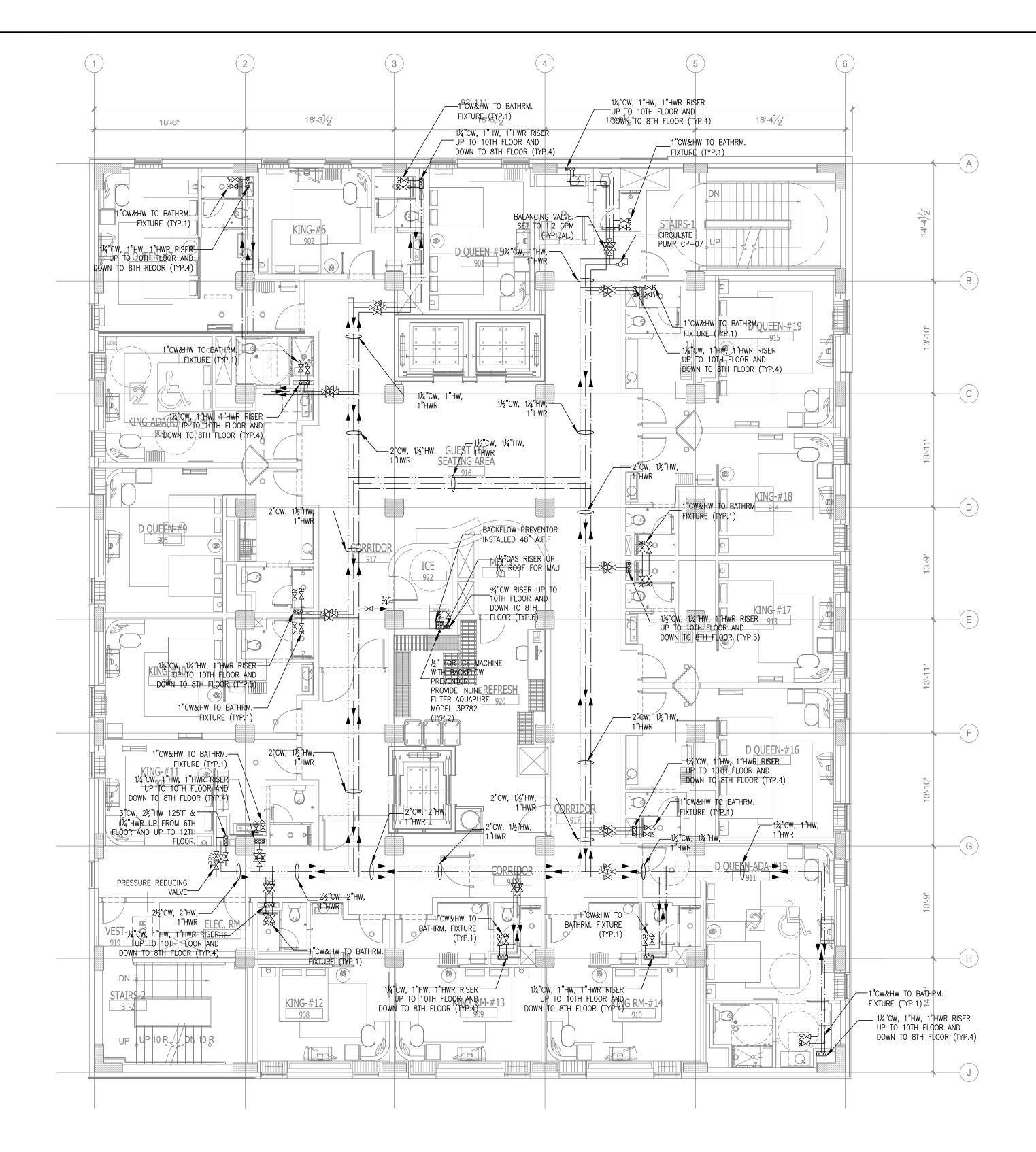
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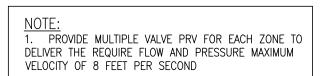
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DOMESTIC WATER NINTH FLOOR PLAN SCALE: 1/8"=1'-0"



NOTE:

• NEW BACKGROUND

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

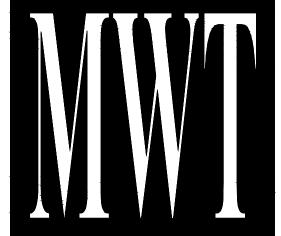
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BATHTUB - 2"ø LAVATORY - 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø 2 ISSUED TO FRANCHISE | 06/09/17 | PL |
3 ISSUED FOR BID (ID ONLY) | 07/21/17 | PL |
4 ISSUED FOR PERMIT | 08/04/17 | PL |
5 ISSUED FOR PERMIT | 08/04/17 | PL |
6 FOR FINAL APPROVAL | 10/02/17 | PL |
7 ISSUED FOR PERMIT | 02/21/18 | PL |
9 ISSUED FOR PERMIT | 04/16/18 | PL |
10 ISSUED TO FRANCHISE | 04/23/19 | PL |
11 ISSUED TO FRANCHISE | 05/20/19 | PL |
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10 ISSU

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ISSUED FOR DEMOLITION 06/09/17



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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

> DOMESTIC WATER NINTH FLOOR PLAN

SHEET

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MAY 20, 2019

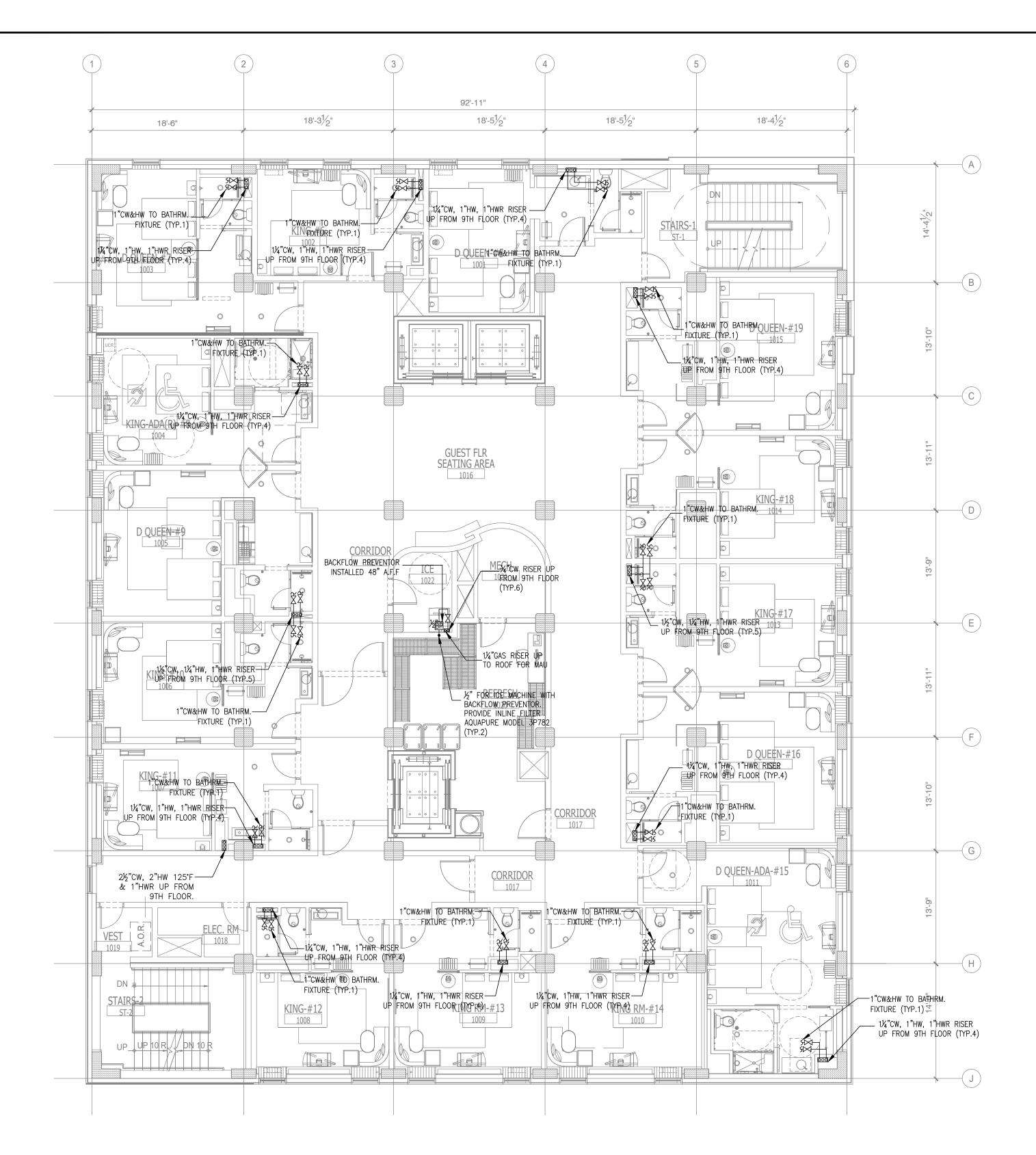
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DOMESTIC WATER TENTH FLOOR PLAN SCALE: 1/8"=1'-0"

NOTE:

• NEW BACKGROUND

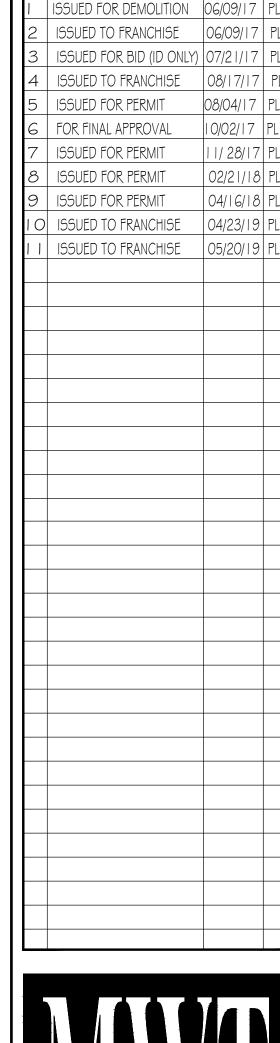
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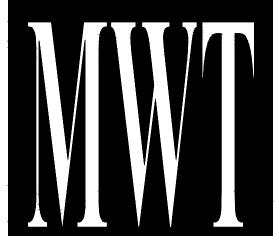
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 WATER CLOSETS— 4"Ø
 BATHTUB 2"Ø

BATHTUB - 2" Ø LAVATORY - 2" Ø FLOOR DRAIN - 2" Ø FLOOR SINK - 3" Ø



DESCRIPTION



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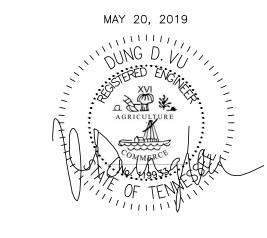
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DATE: 07-21-201 DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER TENTH FLOOR PLAN

SHEET P3



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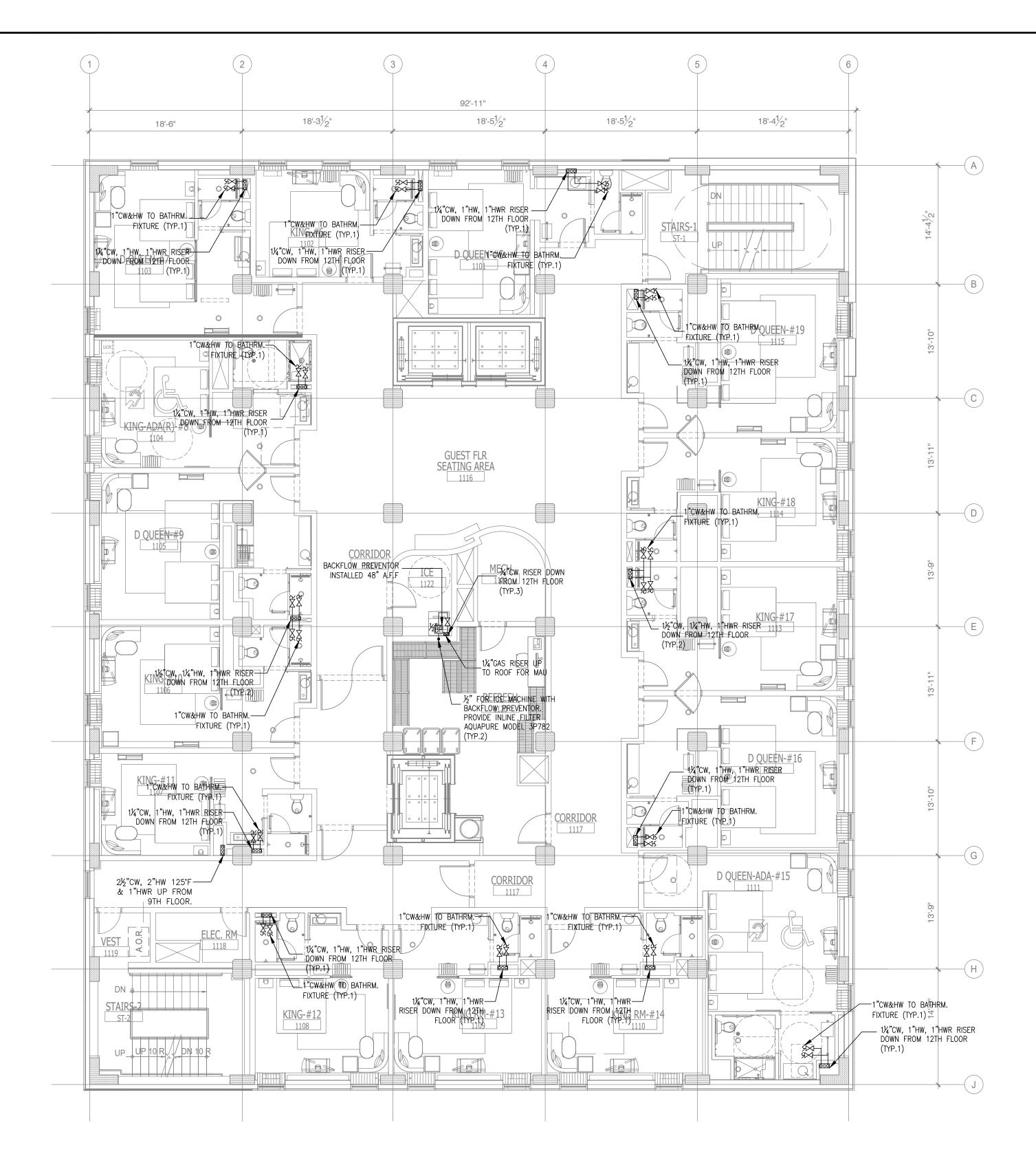
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DOMESTIC WATER ELEVENTH FLOOR PLAN SCALE: 1/8"=1'-0"

NOTE:

• NEW BACKGROUND

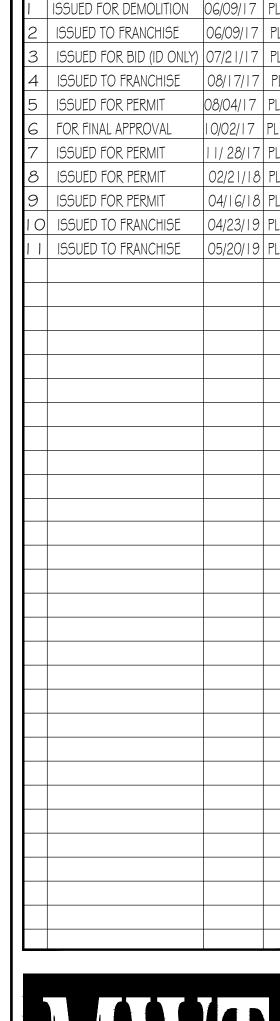
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NOTE

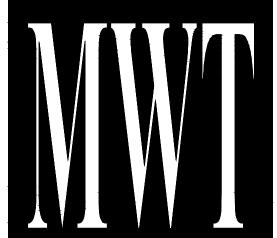
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BATHTUB - 2"Ø LAVATORY - 2"Ø FLOOR DRAIN - 2"Ø FLOOR SINK - 3"Ø



DESCRIPTION

DATE



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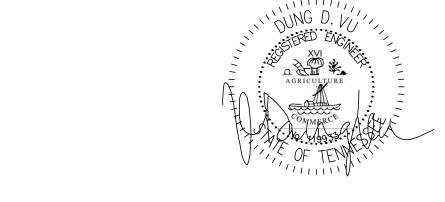
DATE: 07-21-2017
DRAWN BY: PL

CHKD. BY: DV

DOMESTIC WATER

ELEVENTH FLOOR

PLAN



MAY 20, 2019

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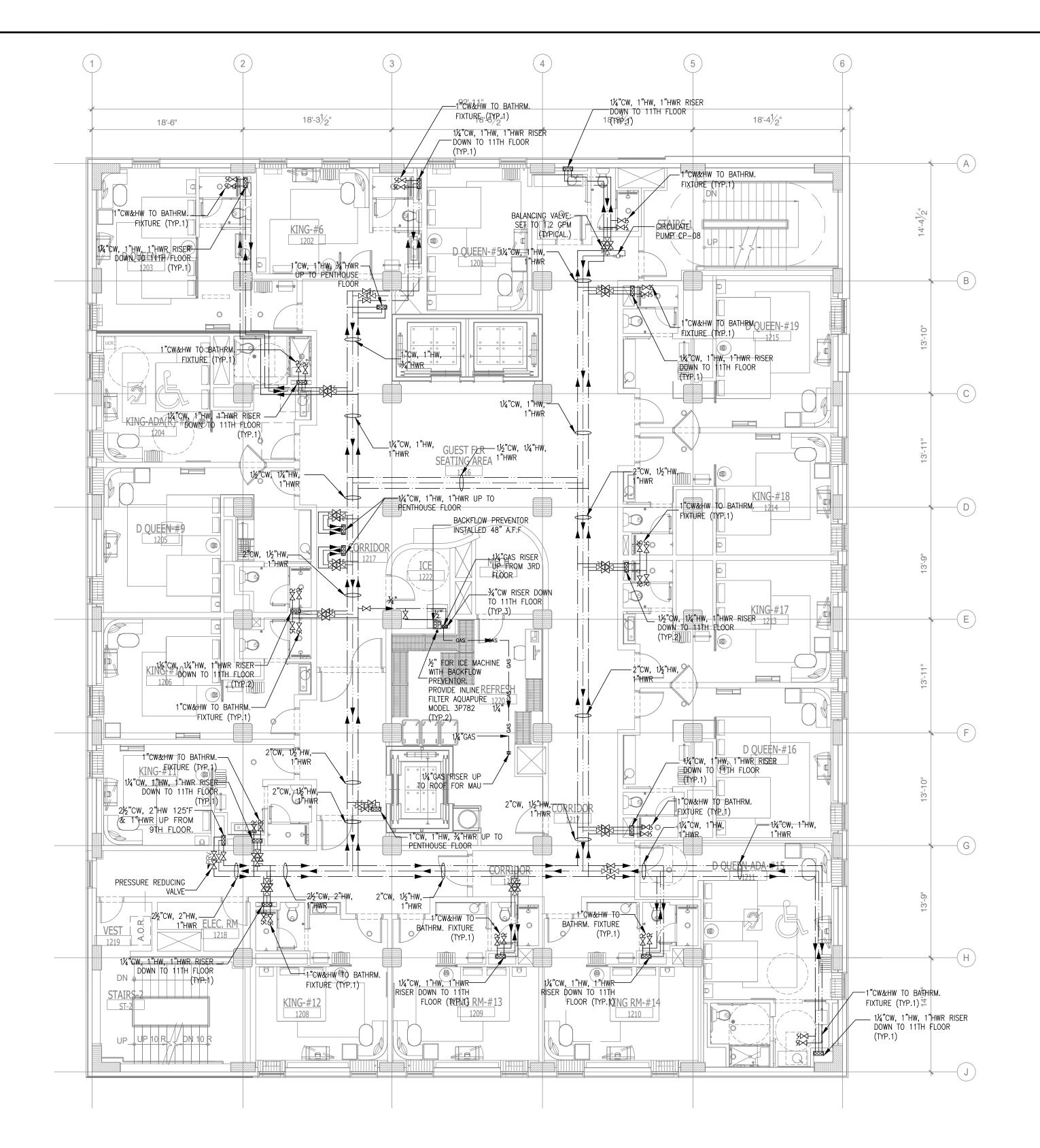
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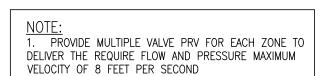
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1 DOMESTIC WATER TWELFTH FLOOR PLAN SCALE: 1/8"=1'-0"



NOTE:

• NEW BACKGROUND

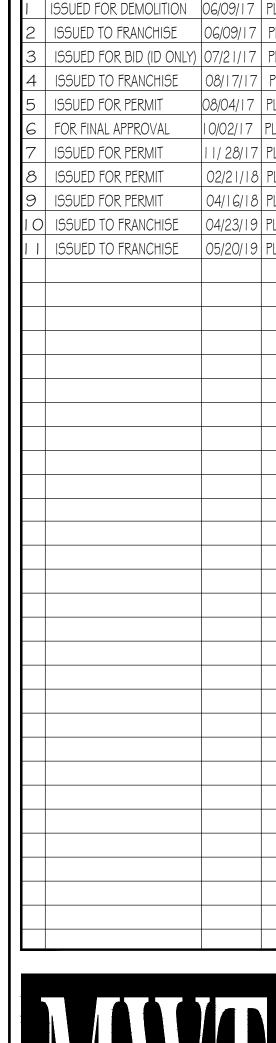
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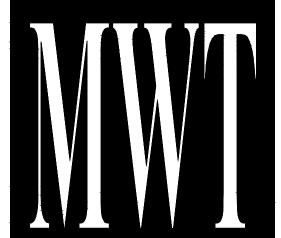
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WARNING
IT IS A VIOLATION OF THE LAW FOR ANY
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REPRODUCE THESE DRAWINGS IN ANY WAY

ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER TWELFTH FLOOR PLAN

SHEET P3.1



IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS: (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)

IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

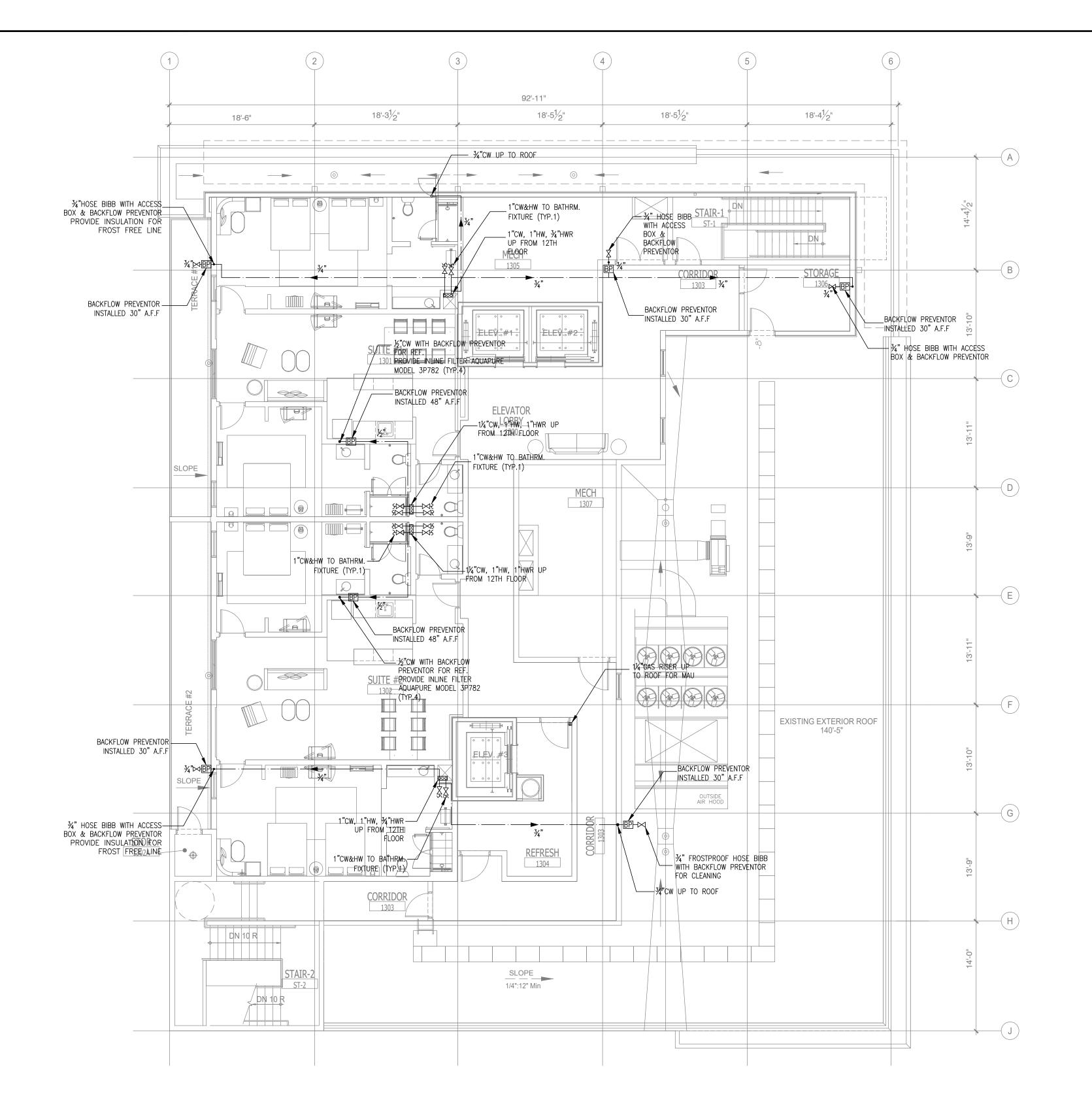
1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

2. YOUR BID INCLUDED ALL THE STEEPS, PROCESSES, MATERIALS, PRODUCTS, GOVERNING PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETED AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

3. YOUR BID MUST HAVE INCLUDED ANY DESIGN INFORMATION REFERENCED WITHIN ANY CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL

THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER STEPS, PROCESSES, MATERIALS, PRODUCTS, LABOR, GOVERNING PERMITS AND OR APPROVALS NECESSAR'
TO PROVIDE A COMPLETE SYSTEM INSTALLATION WHETHER SUGGESTED ON THE DRAWINGS OR NOT.
AS AN EXAMPLE: ITEMS AND OR TASKS LIKE; FIRE CAULK, DRAFT STOPS, FASTENERS, ANCHORS, EMBEDMENTS, DUMPSTERS, DEBRIS CLEAN UP, ETC. ARE
YOUR RESPONSIBILITY. ANY WORK NOT COMPLETED IN A TIMELY MANNER, OR INCOMPLETE WORK WILL BE BILLED BACK TO THE CONTRACTOR AND OR
SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

AND OR PLUMBING DRAWINGS; ALSO NOTE THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW ONLY BASIC CONCEPTS AND GENERAL INFORMATI



NOTES:

- 1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0 & P1.1, P1.2
- 2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1, P4.2, P4.3
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1, P4.2, P4.3 5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- PROVIDE A SEPARATE 1/2" VALVE CW LINE TO EACH REFRIGERATOR.
- CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE.
- VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
- 11. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS- 4"ø BATHTUB – 2"ø
 - LAVATORY 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø

DESCRIPTION

4 ISSUED TO FRANCHISE

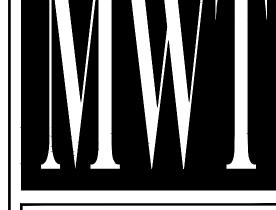
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ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 B | ISSUED FOR BID (ID ONLY) | 07/2 | / | 7



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ALOFT **MEMPHIS DOWNTOWN**

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV DOMESTIC WATER PENTHOUSE FLOOR

DOMESTIC WATER
PENTHOUSE FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE: NEW BACKGROUND

WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

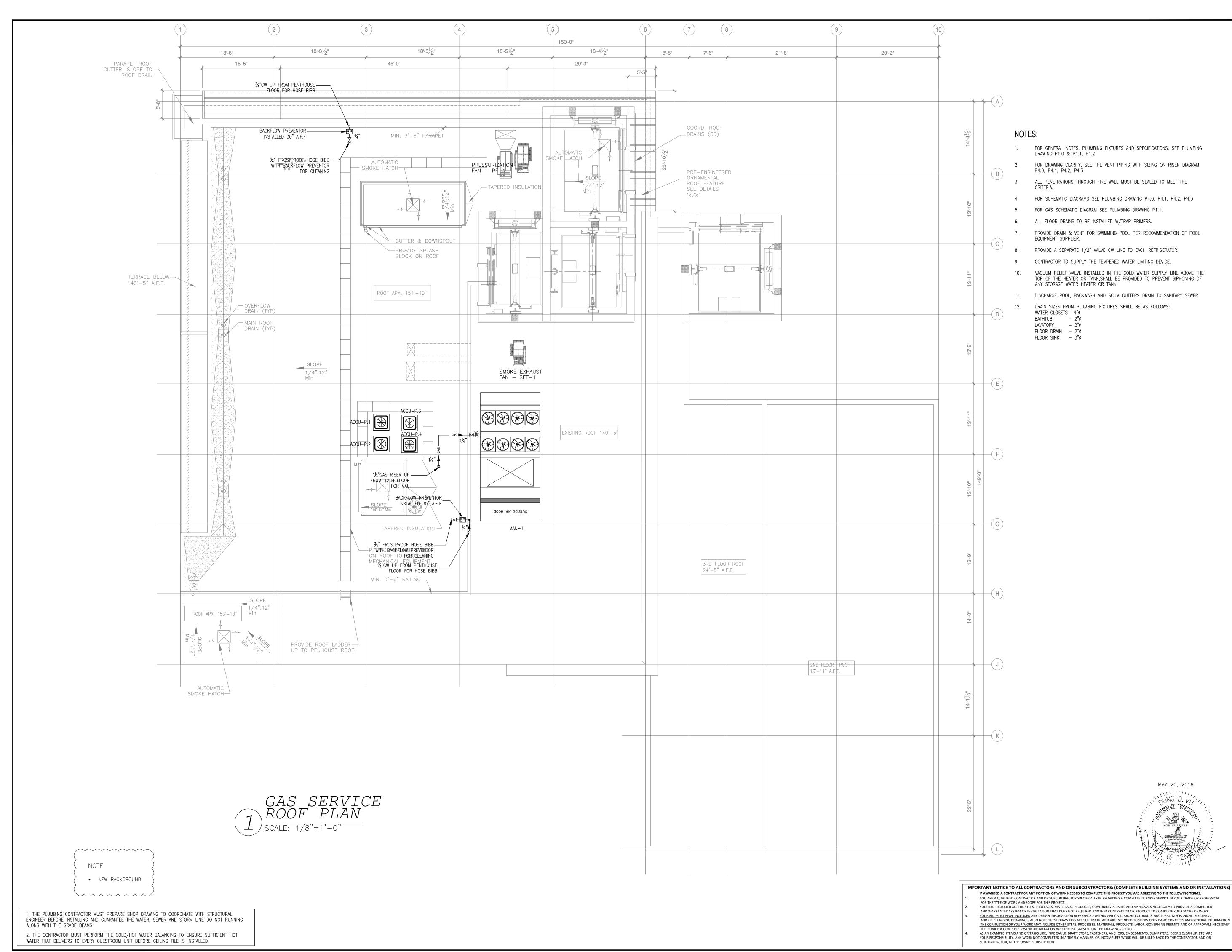
1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS. 2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT

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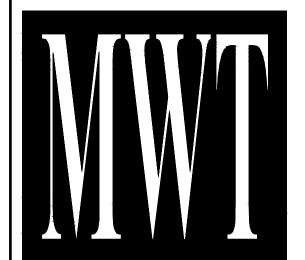
AND WARRANTED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRED ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

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MAY 20, 2019



DESCRIPTION ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 3 | ISSUED FOR BID (ID ONLY) | 07/21/17 4 ISSUED TO FRANCHISE 5 ISSUED FOR PERMIT FOR FINAL APPROVAL ISSUED FOR PERMIT ISSUED FOR PERMIT 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE I ISSUED TO FRANCHISE 05/20/19 I



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ALOFT MEMPHIS DOWNTOWN

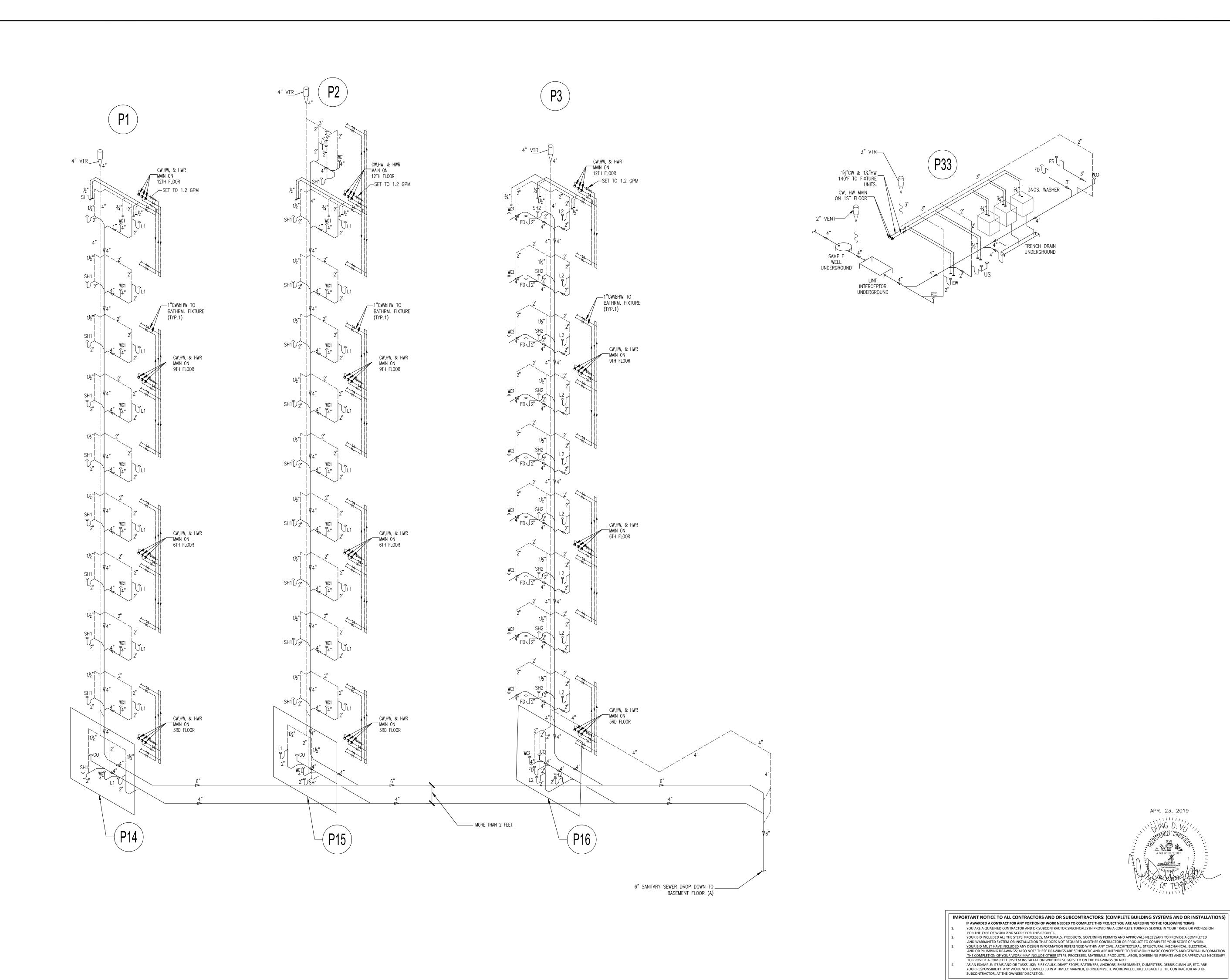
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

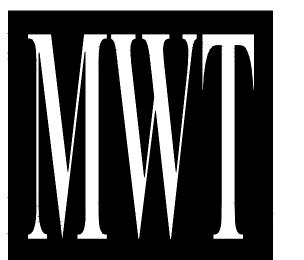
CHKD. BY: DV

DRAWN BY: PL

GAS SERVICE **ROOF PLAN**



ISSUED FOR DEMOLITION 06/09/17 9 ISSUED FOR PERMIT I O ISSUED TO FRANCHISE 04/23/19



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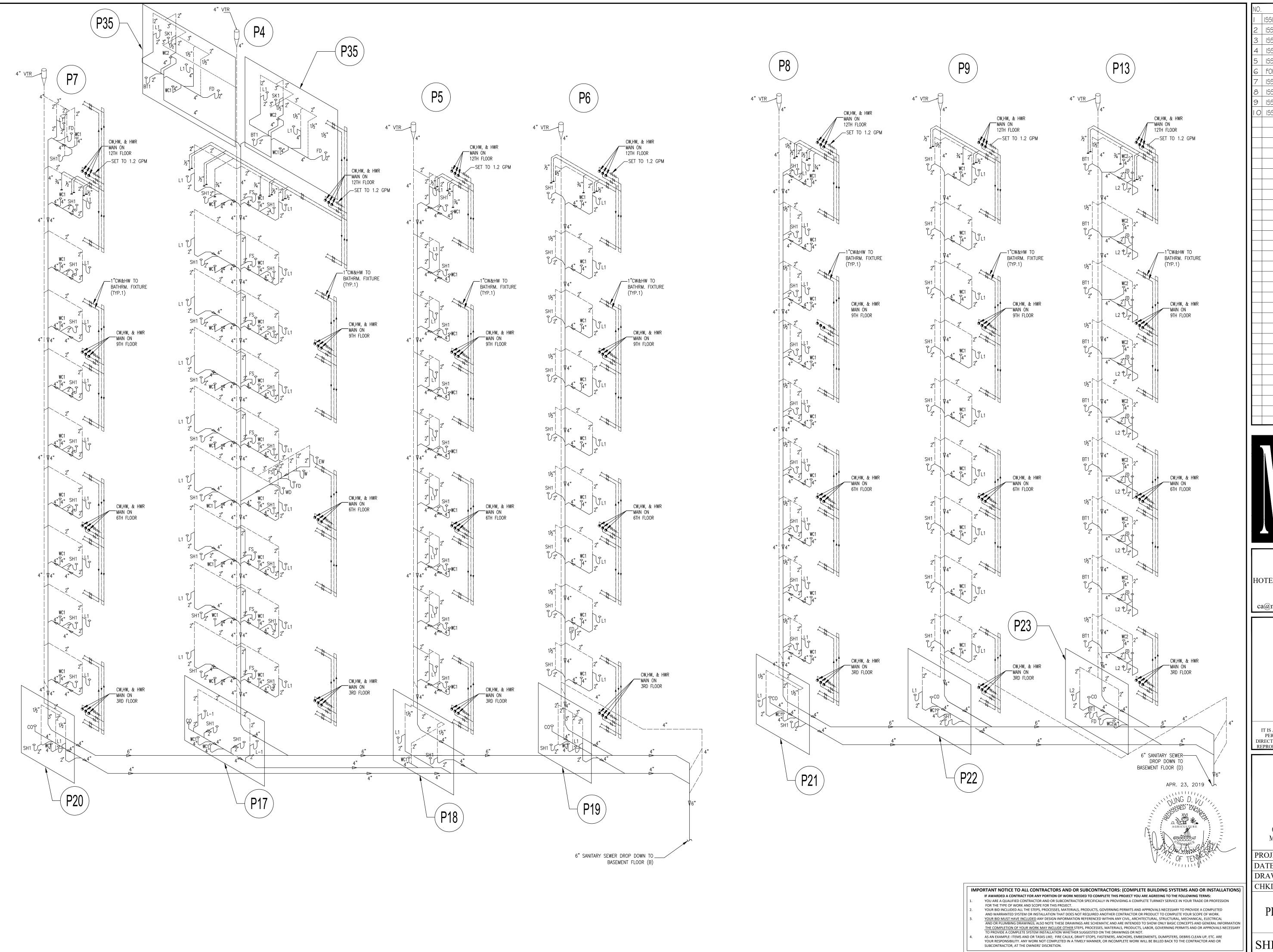
ALOFT MEMPHIS DOWNTOWN

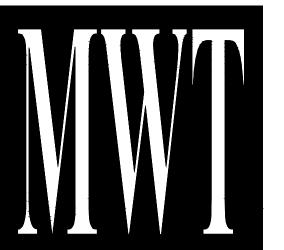
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

DATE: 07-21-2017 DRAWN BY: PL CHKD. BY: DV

PLUMBING RISERS





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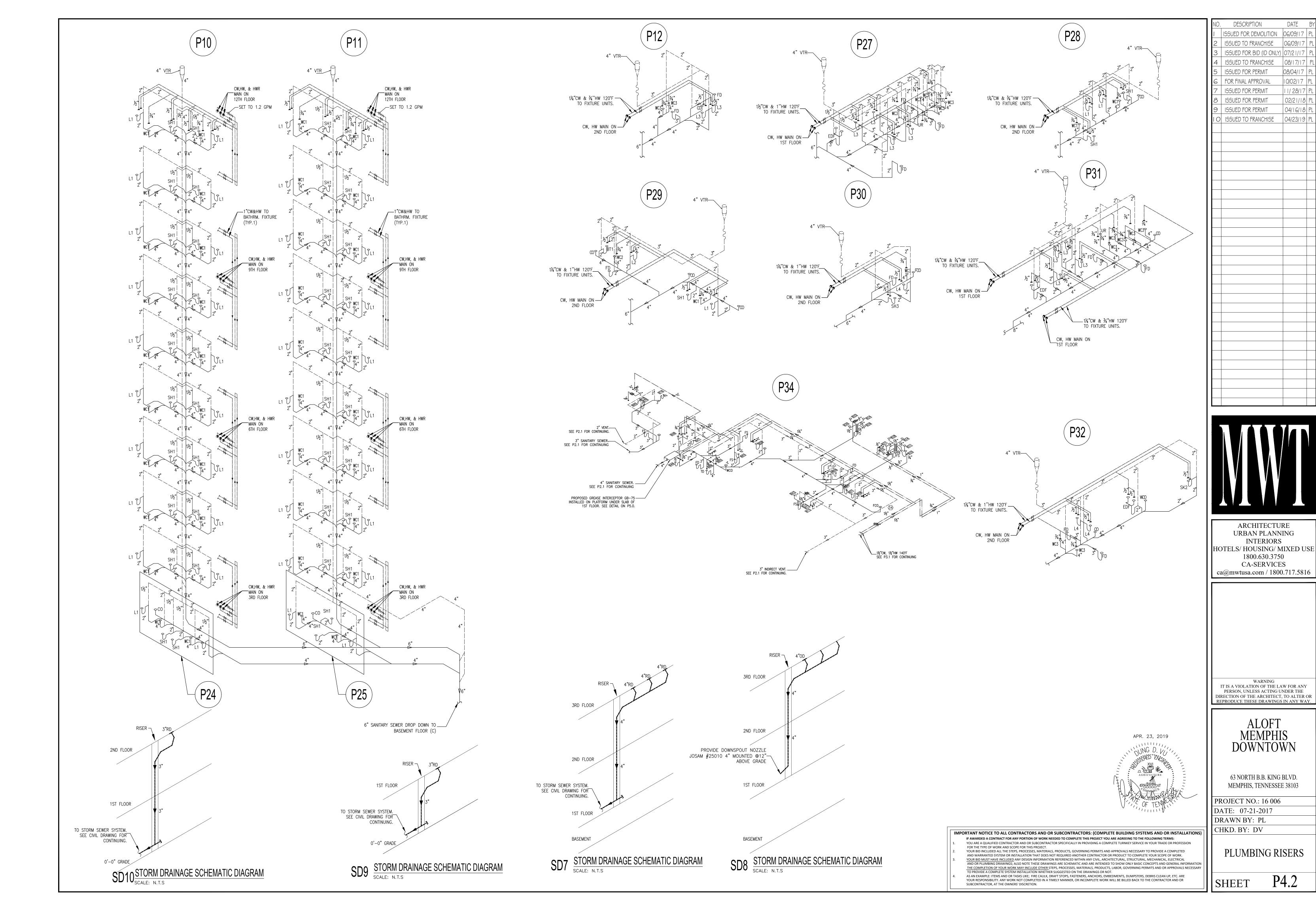
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

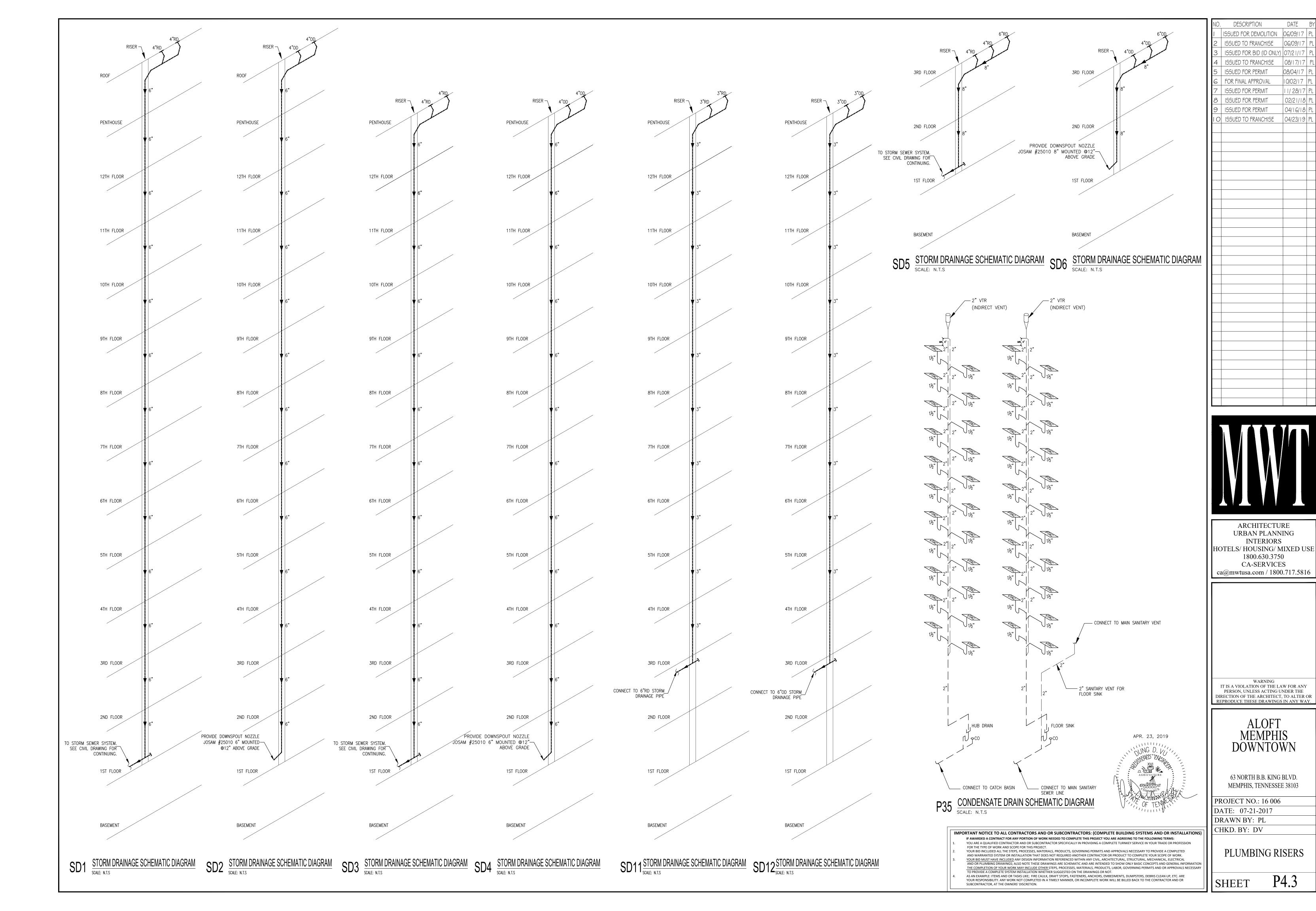
PROJECT NO.: 16 006
DATE: 07-21-2017

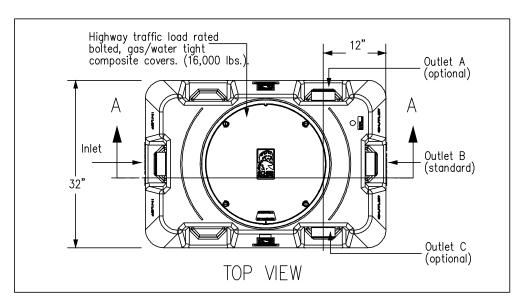
DRAWN BY: PL CHKD. BY: DV

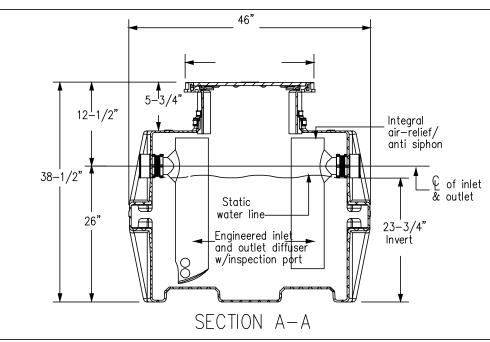
PLUMBING RISERS

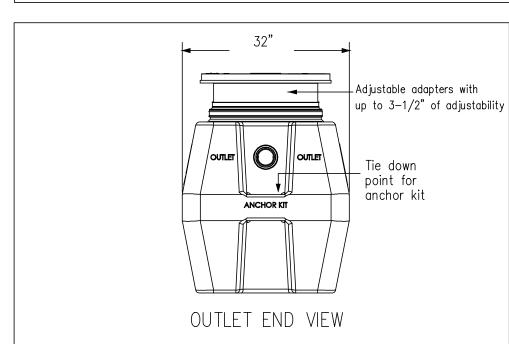
SHEET











NOTE: TRAP PRIMERS

PROVIDE FUNNEL WHEN FLOOR DRAIN IS TO RECEIVE A PIPE FROM ANOTHER LOCATION —

2" VENT

(TYP)

4" WATER —

SEAL

REQUIRED AT ALL

FLOOR DRAINS.

	NAGE FIXTURE UNITS (d GREASE INTERCEPTOR		SUMMARY									
NO.	FIXTURE	X	dfu	=	TOTAL							
PU	BLIC											
4	HAND SINK	X	2	=	8							
1	1 DISPOSER X 2 = 2											
1	WEST WASTE STAND W/ SINK	Х	2	=	2							
1	BEVERAGE COUNTER W/ SINK	Х	2	=	2							
1	POT WASHING SINK	X	3	=	3							
2	DISH WASHER/ GLASS WASHER	Х	2	=	4							
2	FLOOR DRAIN	X	5	=	10							
9	9 FLOOR SINK X 5 = 45											
1	FLOOR TROUGH	X	6	=	6							
					82							

- TOTAL DRAINAGE FIXTURE UNIT: 82 DFU => HYDROMECHANICAL GREASE INTERCEPTOR (HGI) FLOW: 100 GPM

- RISER CLAMP TO BEAR

INSULATION TO SLEEVE

- END AND SEAL INSULATION

- INSULATION AS REQUIRED

POOL DRAIN PIPE

POOL CONTRACTOR

POOL EQUIPMENT

ROOM FLOOR -

W/ AIR GAP - BY -

BACKWATER —

24" MIN. SQ

POOL DRAIN CATCH BASIN

SCALE: N.T.S

(SEE SPECIFICATION)

INSULATION LINES

TO SHIELD AND SLEEVE ON

ON PIPE SLEEVE

– VAPOR SLEAL

SELECT MINIMUM CAPACITY OF GREASE INTERCEPTOR AVAILABLE @ SIZE 100 GALLONS

GREASE INTERCEPTOR SCHIER "GB-75" 75 GPM - 75 GPM FLOW RATE - 125 GALLONS CAPACITY

- 616 LBS GREASE

SCHEDULE 40 GALVANIZED ——

FLOOR W/ REINFORCING RODS

PIPE SLEEVE GROUTED SOLID TO

FLOOR CONSTRUCTION

"3M-FIRE RATED "BARRIER" -

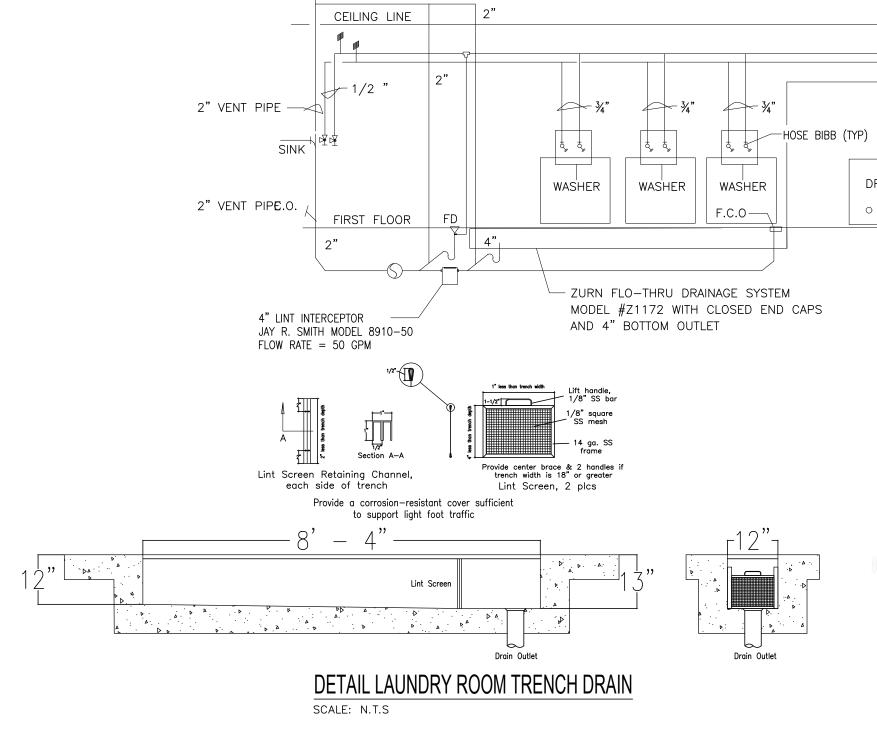
APPROVED EQUAL. INSTALL PER

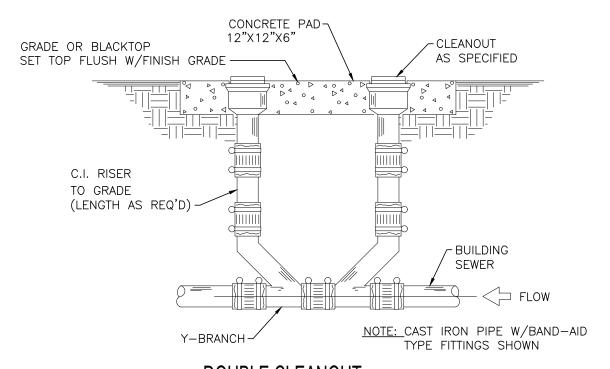
PIPE THRU ROOF

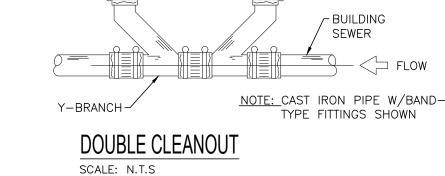
SCALE: N.T.S

FIRE RATED PACKING OR

NO.	FIXTURE	X	dfu	=	TOTAL
Pl	JBLIC				
4	HAND SINK	X	2	=	8
1	DISPOSER	Х	2	=	2
1	WEST WASTE STAND W/ SINK	X	2	=	2
1	BEVERAGE COUNTER W/ SINK	X	2	=	2
1	POT WASHING SINK	Х	3	=	3
2	DISH WASHER/ GLASS WASHER	Х	2	=	4
2	FLOOR DRAIN	Х	5	=	10
9	FLOOR SINK	Х	5	=	45
1	FLOOR TROUGH	X	6	=	6







-3" VENTING

_CLEANOUT

4" OUTLET

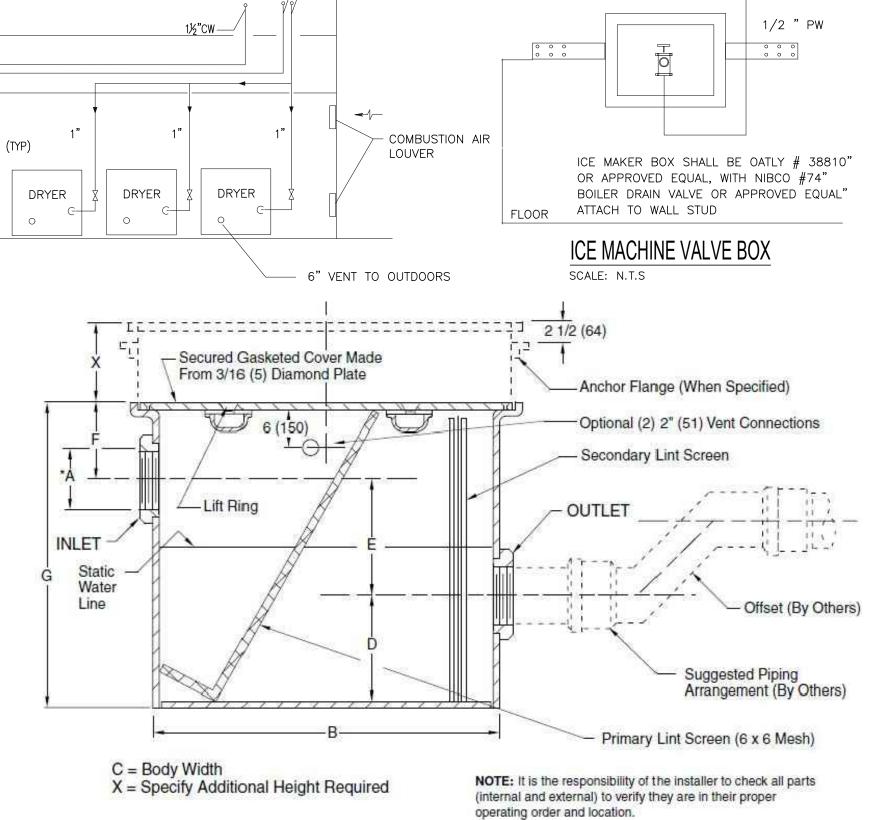
THIS VENT HAS BEEN ALLOWED IN THE PAST ONLY AS A

MEANS TO VENT THE SANITARY LINE WHEN IT IS MORE

THIS IS A FLAT VENT

THAN (SEC. 1508.3.7)

VENT TO COMPLY WITH TABLE 906.1



LINT INTERCEPTOR DETAIL

11/4" GAS LINE-

1¼" HW 160°F—

			SCALE: N.T.S							
			INLET &			DIMENS	SIONS			
MANUFACTURER	GPM	MAXIMUM	OUTLET SIZE	BODY	′			GHING		SECURING
- FIG.NO	FLOW	NUMBER OF	001221 0122	LENGTH	WIDTH		DIMEN	ISIONS		SCREWS IN
	RATE	WASHERS	Α	В	С	D	E	F	G	COVER
JAY R. SMITH-8910-50	50	5	04"	40"	26"	12"	12"	8"	32"	10

LINT INTERCEPTOR SIZING:

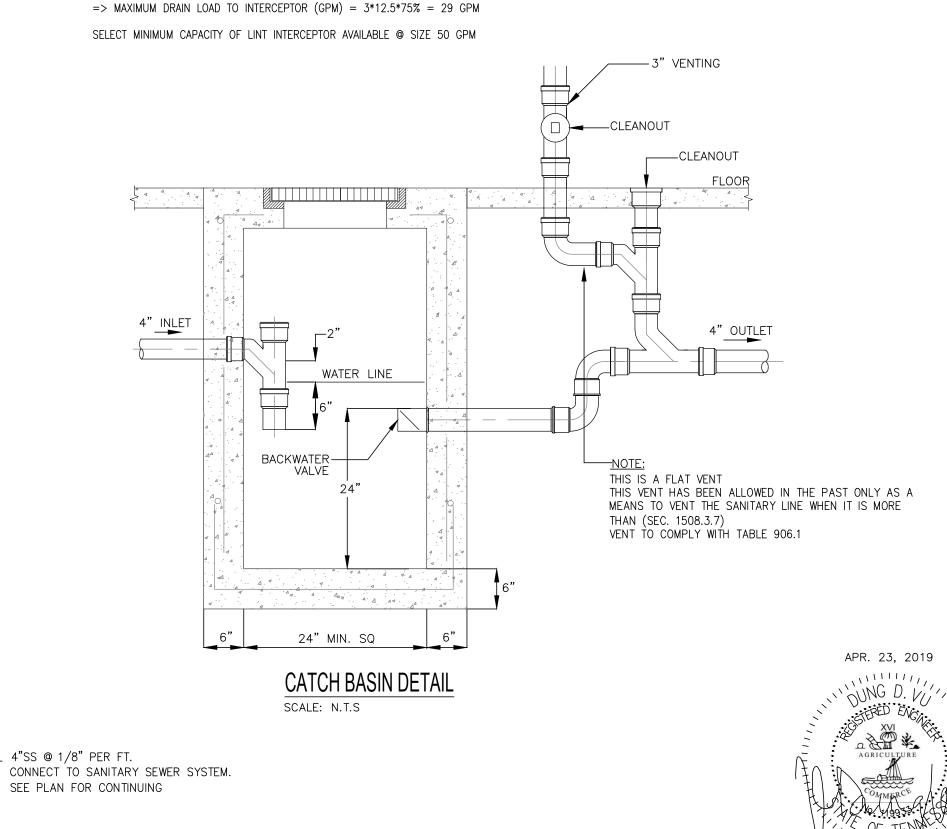
* NUMBER OF WASHING MACHINES: 3

* AVERAGE GRAVITY DISCHARGE RATE PER MACHINE (GPM): 12,5

* AVERAGE WASH CYCLE (HOURS): 0,7 * AVERAGE OPERATING HOURS (HOURS): 16

* AVERAGE TURNS PER DAY PER MACHINE: 5,5

* SIMULTANFOUS USE PROBABILITY: 75,0%



FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

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DESCRIPTION

ISSUED TO FRANCHISE ISSUED FOR PERMIT FOR FINAL APPROVAL

ISSUED FOR PERMIT

ISSUED FOR PERMIT

9 | ISSUED FOR PERMIT

ISSUED FOR DEMOLITION 06/09/17

ISSUED TO FRANCHISE 06/09/17

ISSUED FOR BID (ID ONLY) 07/21/17

I O ISSUED TO FRANCHISE 04/23/19 F

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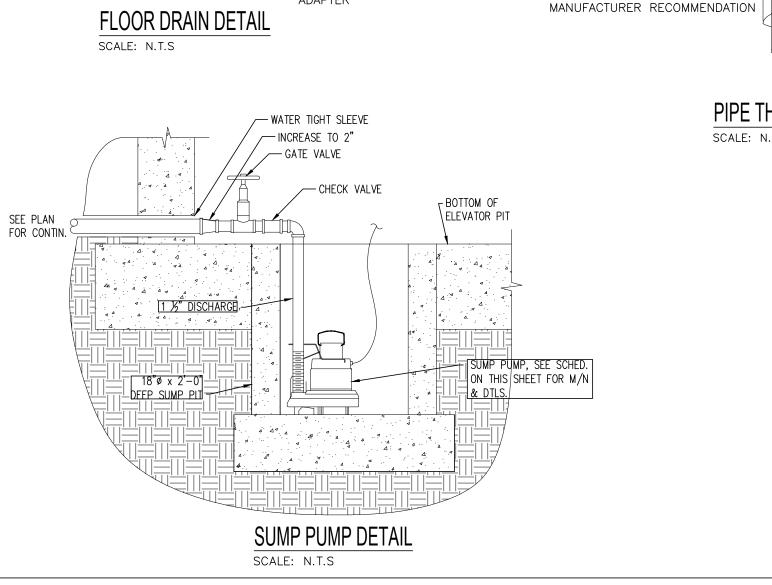
ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV

PLUMBING DETAILS

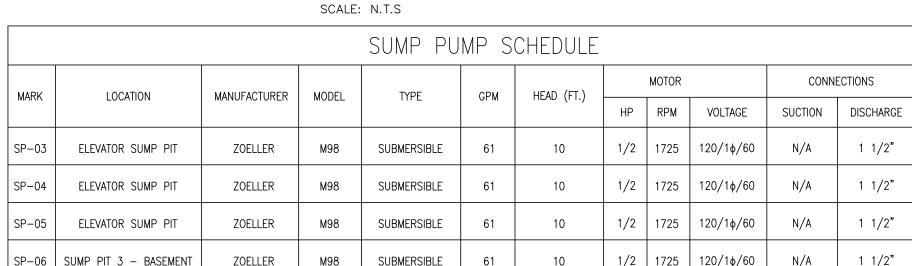


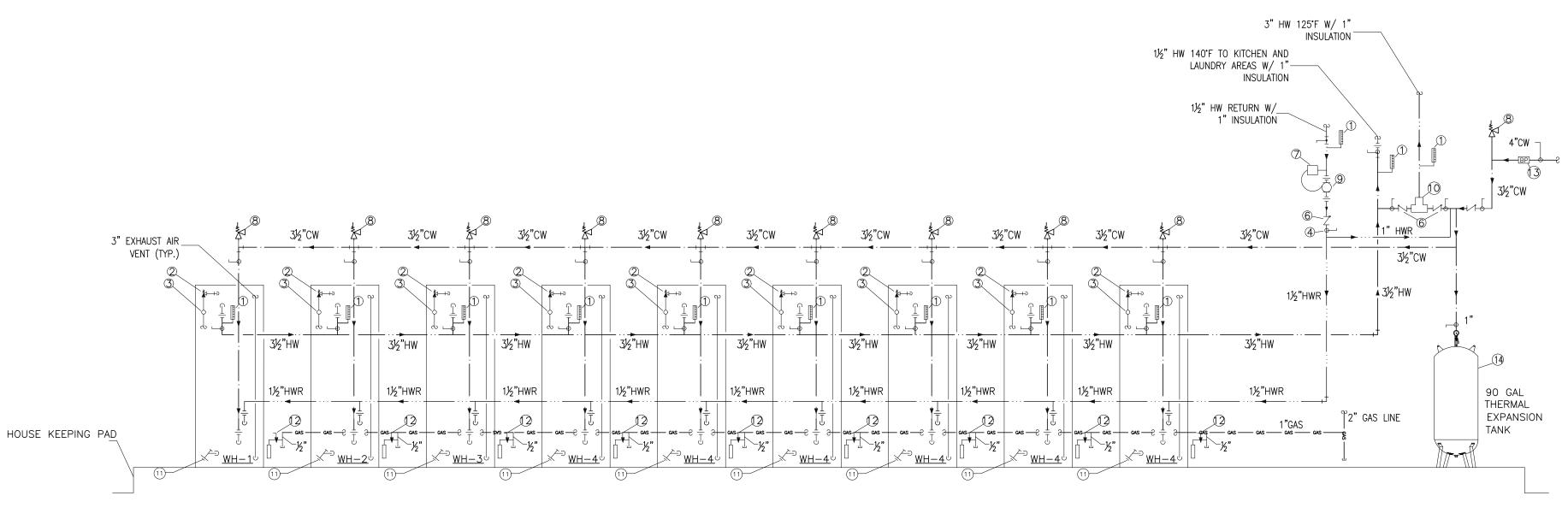
PRIMER VALVE

-PRIMER CONNECTION

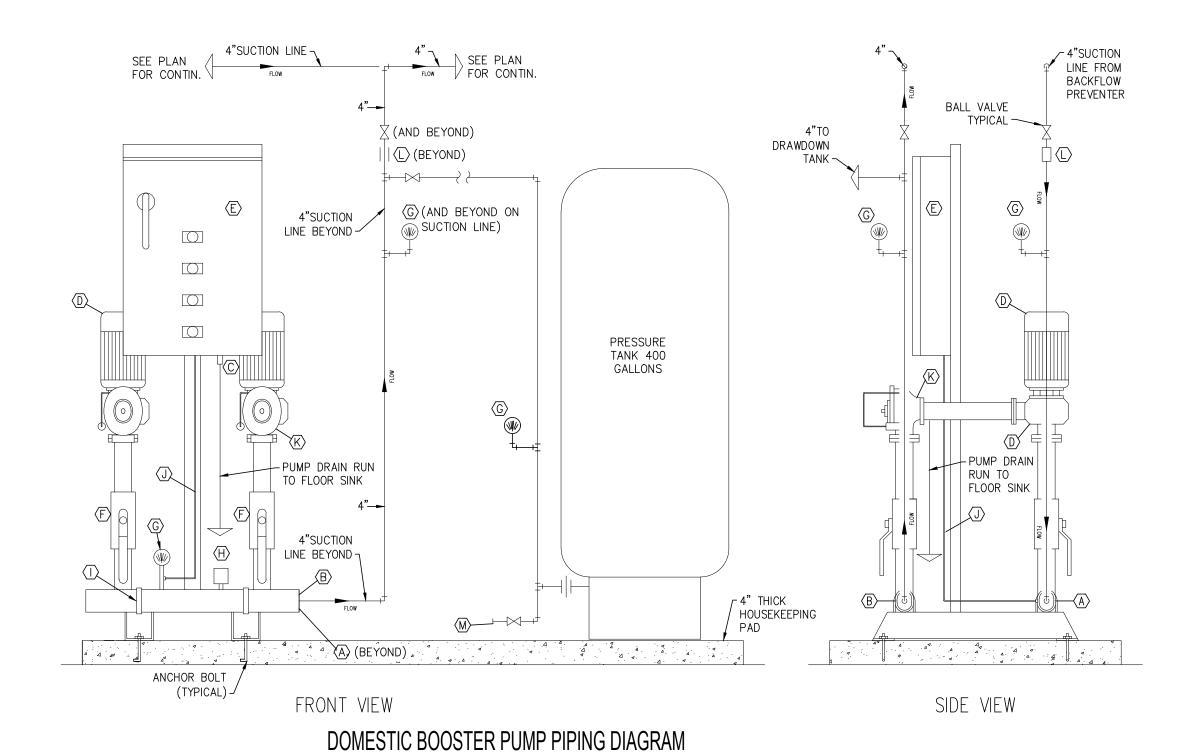
—1/2" COLD

				SUMP PU	MP S	CHEDULE					
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT.)		MOTOR		CONN	ECTIONS
THII WATE	Edoktion	MARTOTALIN	MODEL	1112	01 111	112.6 (111)	HP	RPM	VOLTAGE	SUCTION	DISCHARGE
SP-03	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1φ/60	N/A	1 1/2"
SP-04	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1φ/60	N/A	1 1/2"
SP-05	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1φ/60	N/A	1 1/2"
SP-06	SUMP PIT 3 - BASEMENT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1φ/60	N/A	1 1/2"





GAS FIRED WATER HEATER PIPING DIAGRAM (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS... SCALE: N.T.S



SCALE: N.T.S

EQUIPMENT LIST:

- (A) COPPER SUCTION HEADER FLANGE
- (B) COPPER DISCHARGE HEADER FLANGE
- (C) SOLENOID VALVE $\langle \overline{D} \rangle$ PUMP & MOTOR (TYPICAL)
- (E) CONTROL PANEL
- F BRONZE BALL VALVE
- G PRESSURE GAUGE
- (H) AQUASTAT (TEMPERATURE GAUGE) (I) RUBBER ISOLATION CUSHION
- (J) SUCTION PRESSURE LINE
- K CHECK VALVE
- (L) LOW SYSTEM PRESSURE CUT OFF SWITCH
- (M) TANK DRAIN WITH MALE HOSE CONNECTION

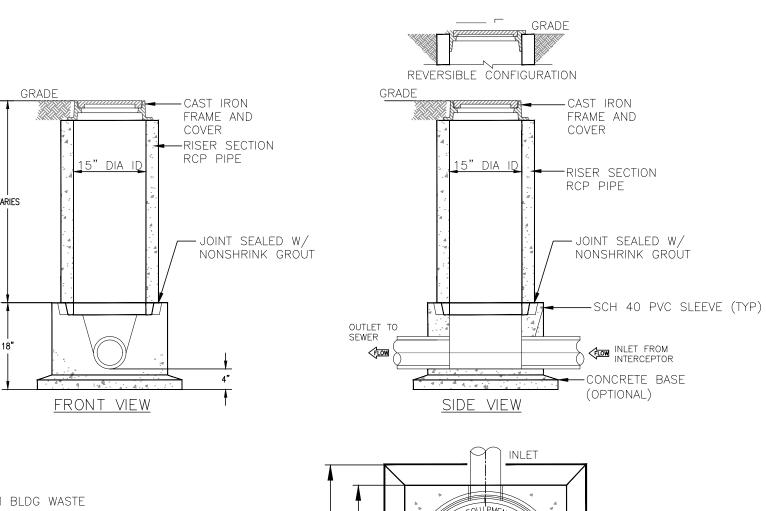
BOOSTER PUMP NOTES:

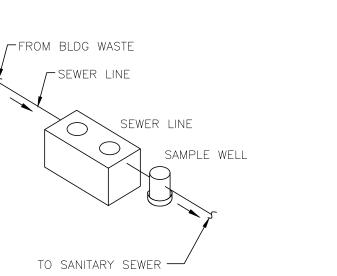
- 1. BOOSTER SYSTEM SHALL EQUAL TO ARMSTRONG DUPLEX BOOSTER MODEL 4700.
- 2. PUMPS SHALL BE ARMSTRONG SERIES # VMS-3203, END SUCTION 4 x 1.5 x 6 (15 HP), WITH A SUCTION PRESSURE OF 40 PSI AND A BOOST PRESSURE OF
- 3. PUMP SYSTEM SHALL BE COMPLETELY FACTORY ASSEMBLED, TESTED AT FACTORY AND SHIPPED TO INSTALLATION AS AN INTEGRAL UNIT READY FOR DOMESTIC SYSTEM PIPING INSTALLATION. CONTROL DEVICES SHALL BE PRE-SET. EQUIPMENT VENDOR SHALL SUPERVISE START-UP AND INITIAL RUN-IN PERIOD.
- 4. PUMP SYSTEM SHALL BE OF VARIABLE SPEED TYPE IN ORDER TO PROVIDE A CONSISTENT BUILDING WATER PRESSURE REGARDLESS OF PRESSURE FLUCTUATIONS IN STREET PRESSURE, SEE SPECIFICATIONS.

					BOOSTE	ER PUMP	SCHEDU	JLE				
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT.)		MOTOR		CONN	ECTIONS	REMARKS
WAIN	LOCATION	MANOFACTORER	MODEL	IIIFL	GF W	TILAD (TT.)	HP	RPM	VOLTAGE	SUCTION	DISCHARGE	NEWANNS
BP	WATER HEATER RM	ARMSTRONG	VMS-3203	DUPLEX BOOSTER	100 (EA. PUMP)	260	15 (EA. PUMP)	3500	208/3φ/60	4"	4"	DUPLEX PACKAGED BOOSTER SYSTEM BASED ON ARMSTRONG NO. 4700 WITH (2) 15 HP VMS-3203 VARIABLE SPEED PUMPS. PROVIDE WITH INTEGRAL DISCONNECT.

BILL OF MATERIALS (WATER HEATER)

- 1. WEISS #9VS12 VARI-ANGLE THERMOMETER 30°-240°F
- 2. ASME RATED T&P RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR
- 3. T&P VALVE DRAIN SHALL BE ROUTED TO FLOOR
- 4. PLUG COCK(TYPICAL)
- 5. DIELECTRIC UNION(TYPICAL)
- 6. CHECK VALVE(TYPICAL)
- 7. IMMERSION TYPE CLOSE DIFFERENTIAL AQUASTAT WITH TIMER
- 8. VACUUM RELIEF VALVE WATTS #N36
- 9. 110°F CIRCULATING PUMP (20GPM@45FT. HEAD) 3/4 HP BELL & GOSSET SERIES 60
- 10. DIGITAL MIXING VALVE ARMSTRONG DRV80R SET AT
- 11. DRAIN VALVE
- 12. GAS COCK(TYPICAL)
- 13. LISTED BACKFLOW PREVENTER
- 14. THERMAL EXPANSION TANK 90 GAL





OUTLET

<u>Plan view</u>

SAMPLING WELL DETAIL

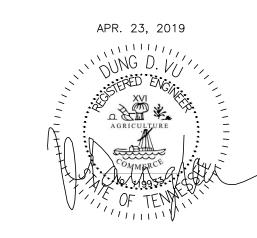
- 1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PERMIT.
- 2. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS
- 3. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND M.H. COVER REQUIRED)
- 4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)
- 5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE. 6. INSTALLATION INSIDE BLDG MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE
- IS PERMITTED, (AIR-TIGHT COVER REQUIRED.) 7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
- 8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE
- 9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.

SPECIFICATIONS:

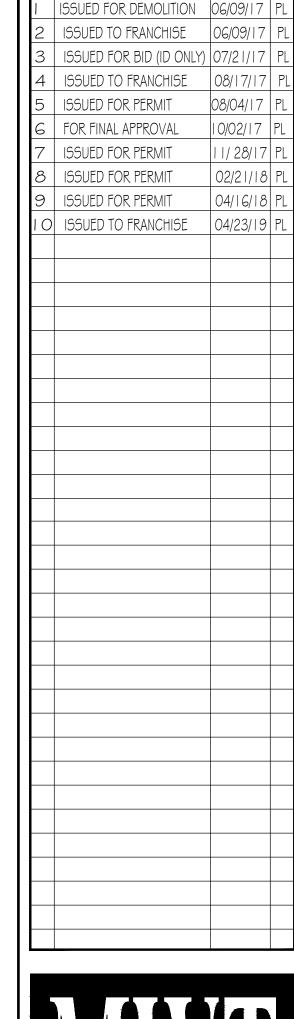
CLASS 1 CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO

REQUIRED DEPTH

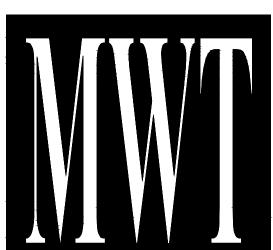
CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY-DUTY AASHTO H-20



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DESCRIPTION



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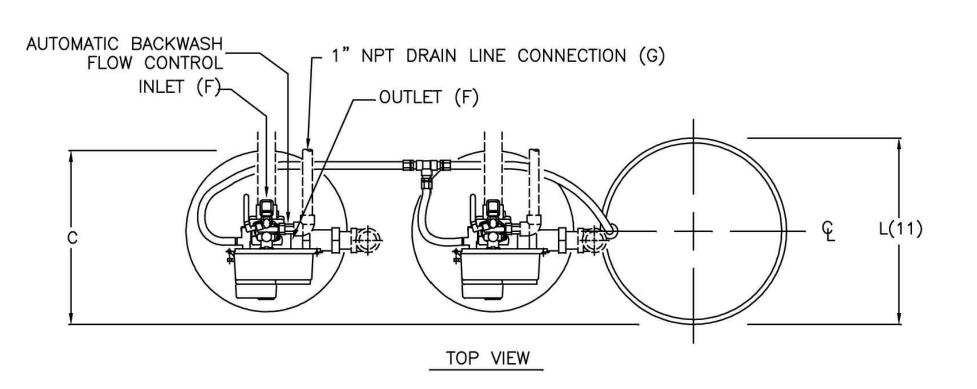
ALOFT MEMPHIS DOWNTOWN

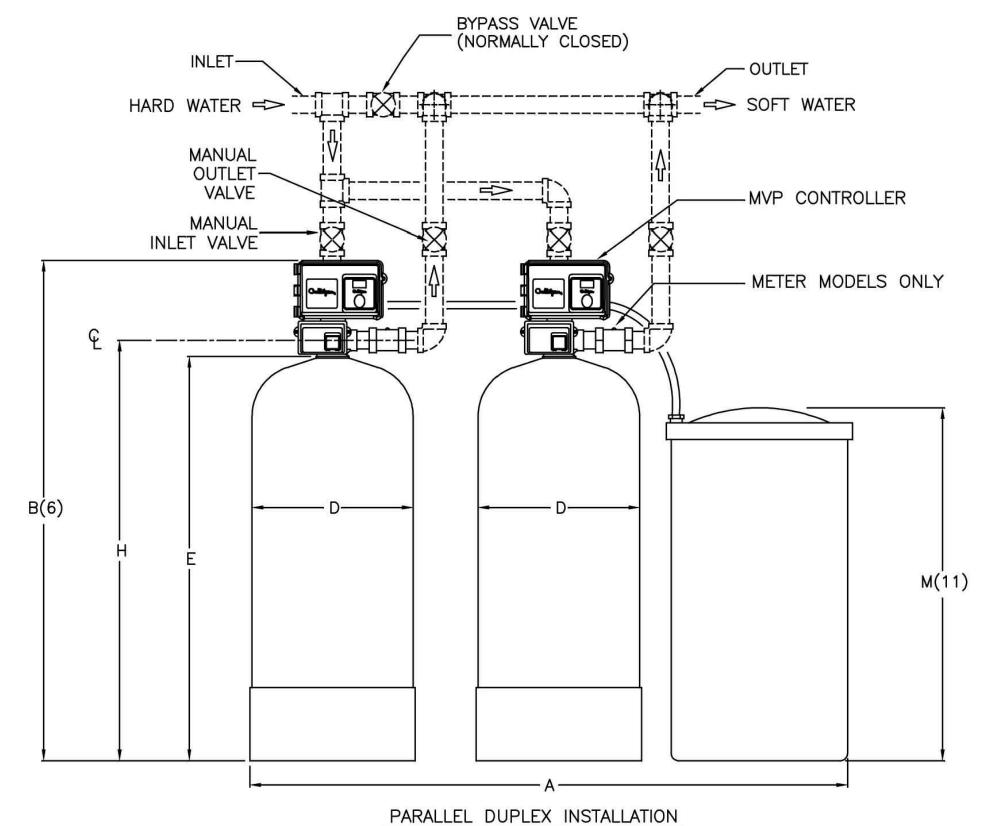
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

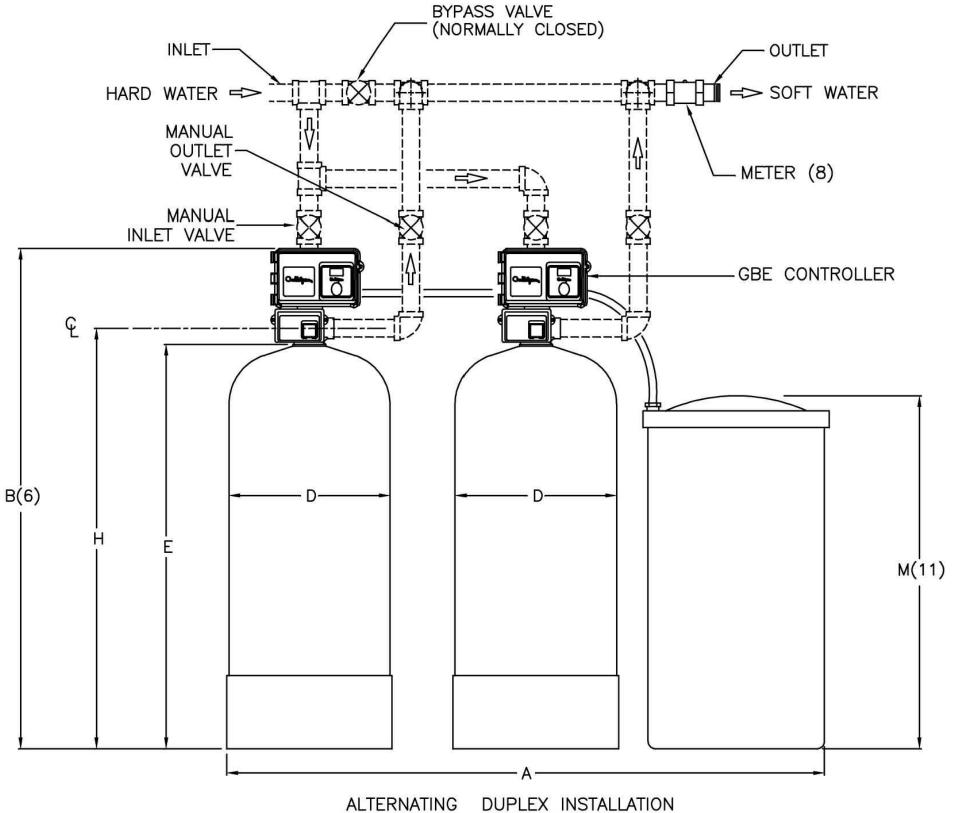
PROJECT NO.: 16 006 DATE: 07-21-2017 DRAWN BY: PL

PLUMBING DETAILS

CHKD. BY: DV



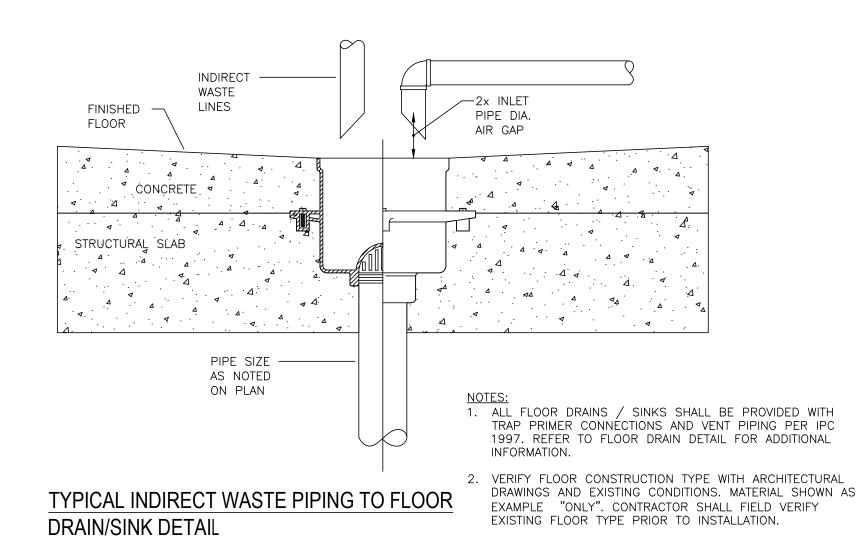




WATER SOFTENER DETAIL

SCALE: N.T.S

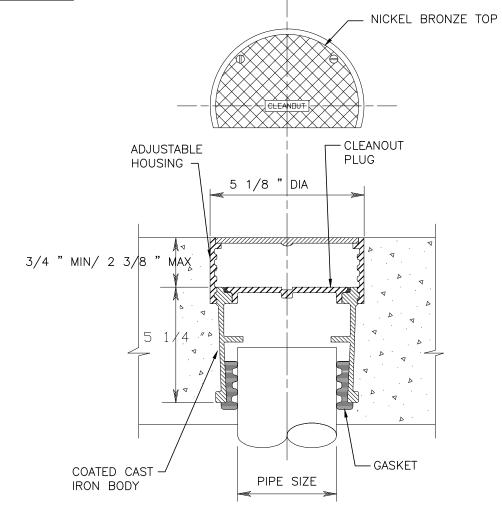
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MANUFACTURE -MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET OUTLET PIPE SIZES F	DRAIN SIZE H	FLOOR TO INLER J	BRINE TANK DIA. L(11)	BRINE TANK HEIGHT M(11)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft³	CONTINUOUS FLOW gpm @ 25 psi drop	PEAK FLOW gpm @ 25 psi drop		MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. Ibs.	DUPLEX SHIP. WT. Ibs.
CULLIGAN CTM-300 HWB NHWB MT	86	94	24	24	75.5	1.5	1.5	82.6	24	50	300 @ 150	10	70	95	15	1.25	4010	1620



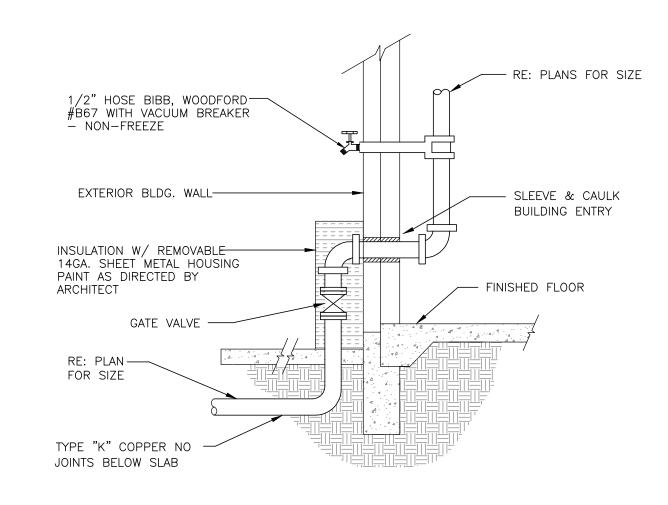
SCALE: NTS

OPTIONAL TRAP PRIMER : CONNECTION 4 [102] MINIMUM WATER SEAL BRONZE CLEANOUT PLUG DEEP SEAL TRAP DETAIL

SCALE: NTS

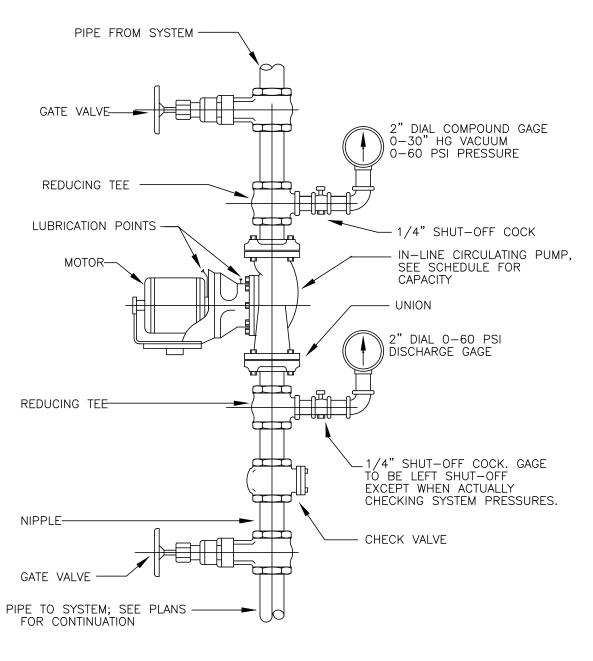


FLOOR CLEANOUT SCALE: N.T.S



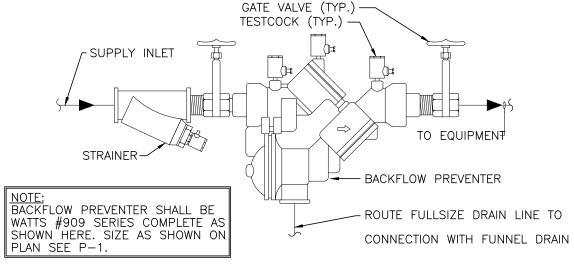
DOMESTIC WATER SERVICE ENTRY DETAIL

SCALE: NTS



HOT WATER CIRCULATION PUMP DETAIL

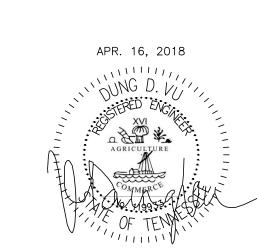
SCALE: NTS



BACKFLOW PREVENTER DETAIL

SCALE: N.T.S

SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

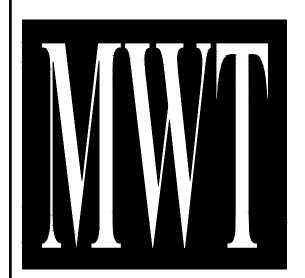


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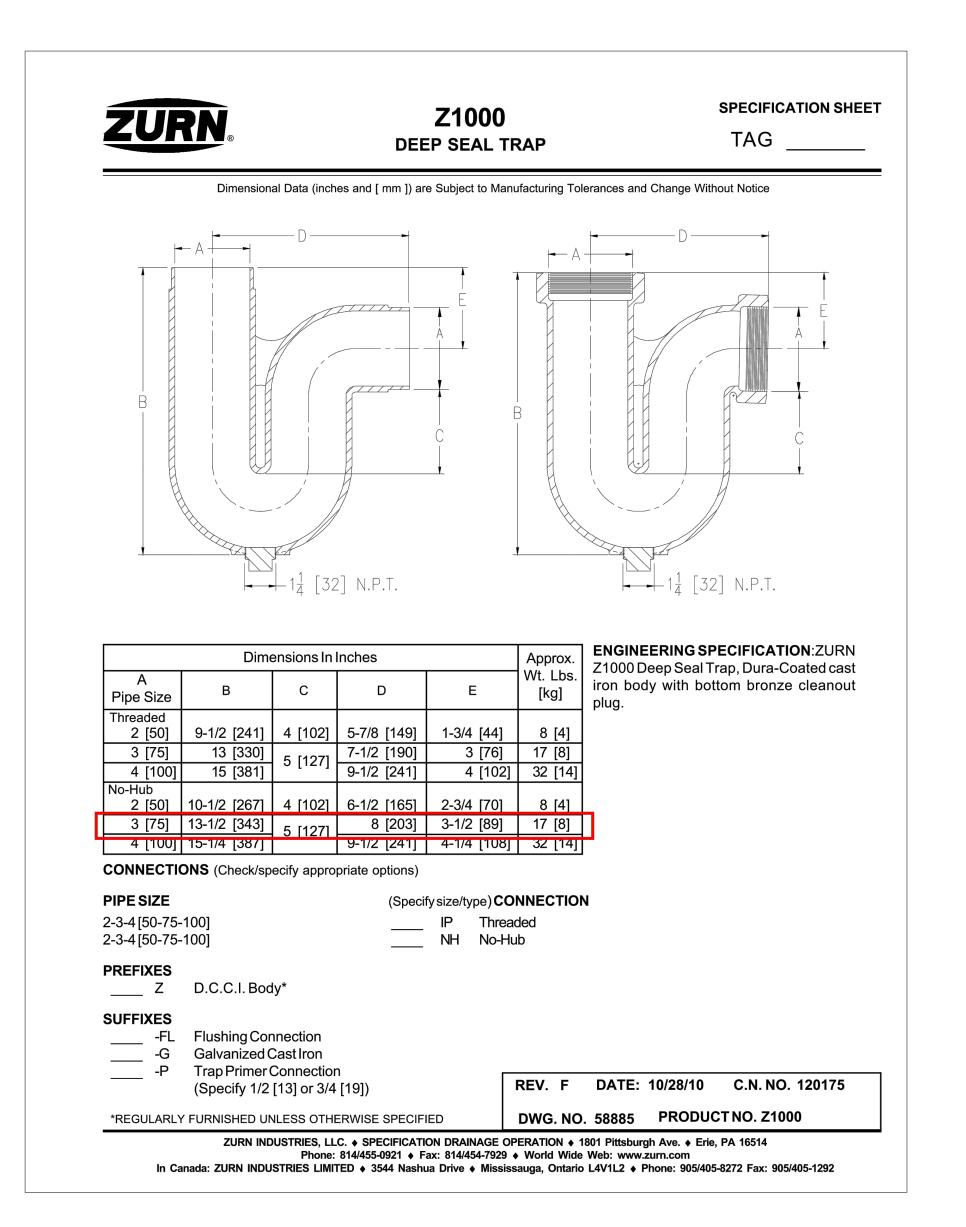
ALOFT MEMPHIS DOWNTOWN

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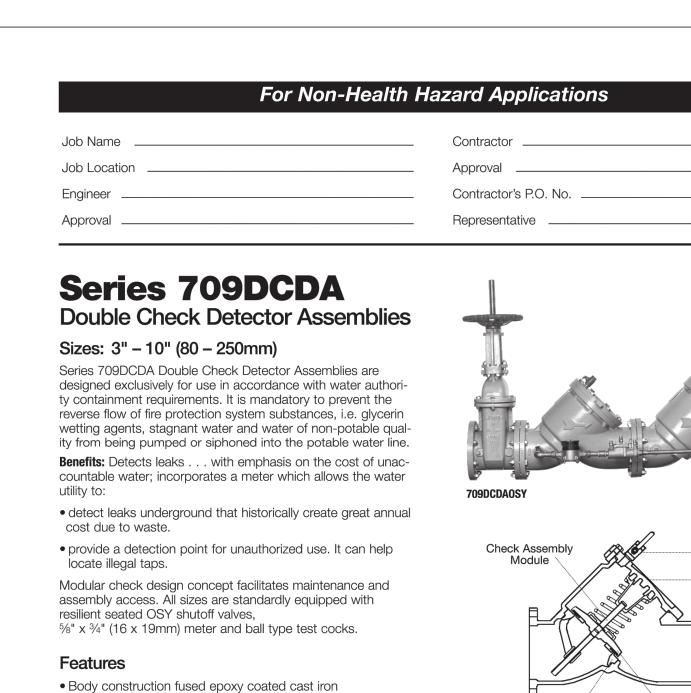
PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV

PLUMBING DETAILS



DEEP SEAL TRAP SPECIFICATION



Replaceable bronze seats

Specifications

Maximum flow at low pressure drop

Design simplicity for easy maintenance

No special tools required for servicing

Compact for economy combined with performance

• Furnished with 5%" x 3/4" (16 x 19mm) bronze meter

A Double Check Detector Assembly shall be installed on fire

protection systems when connected to a potable water sup-

ply. Degree of hazard present is determined by the local

authority having jurisdiction. The unit shall be a complete

assembly including UL listed resilient seated OSY shutoff

valves and test cocks. The unit shall be UL/FM approved with

by the Foundation for Cross-Connection Control and Hydraulic

Research at the University of Southern California. Assembly

shall be a Watts Regulator Company Series 709DCDA.

UL/FM approved OSY shutoff valves. The auxiliary line shall

consist of an approved backflow preventer and water meter. The assembly shall meet the basic requirements of ASSE 1048: AWWA Std. C510 for Double Check Valves. Approved

Check Assembly Module Features a modular design concept which facilitates complete maintenance and assembly by retaining the spring load. First and second check valve spring modules are not inter-

Now Available WattsBox Insulated Enclosures. For more information, send for literature ES-WB.

IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Materials

ES-709DCDA

Test Cock

Epoxy coated cast iron

Bronze Disc Holder: **Bronze** Trim: Stainless steel Check Valve Discs: Rubber Test Cocks:

Models Suffix:

OSY - UL/FM outside stem and yoke resilient seated gate

CFM - cubic feet per minute meter GPM - gallons per minute meter

LF - 4" - 10" (100 - 250mm) without shutoff valves

Dimensions – Weights

Pressure – Temperature

Temperature Range: 33°F – 110°F (0.5° – 43°C) continuous, 140°F (60°C) intermittent

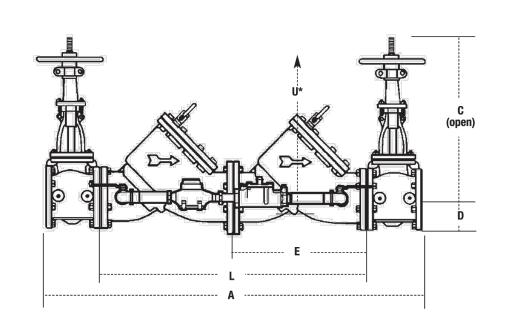
Maximum Working Pressure: 175psi (12.1bar)

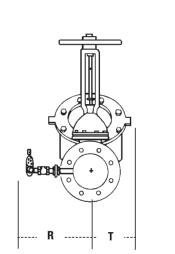
Standards

AWWA Standard C510

Approvals

Approved by the foundation for Cross-Connection Controland Hydraulic Research at the University of Southern California. Sizes 4" - 10" (100 - 250mm) approved for horizontal and vertical "flow up". Size 3" (76mm) approved for horizontal only. Factory Mutual approved 4" - 10" (100-250mm) vertical

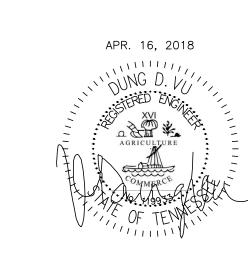




SIZE	E (DN)									DIMENS	IONS							WEI	GHT
			A		C		D		E		-		R	Т		ı	J*	W/OSY†	gates
In.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
3	80	40	1016	187/8	479	31/2	89	12	305	24	610	14	356	3	76	14	356	190	86
4	100	52	1321	223/4	578	3¾	95	17	432	34	864	15	381	6	152	14	356	403	183
6	150	62½	1588	301//8	765	41/2	114	21	533	411/2	1054	16	406	71/2	191	16	406	727	330
8	200	75	1905	37¾	959	5½	140	26	660	52	1321	17	432	9	229	21	533	1327	602
10	250	90	2286	45¾	1162	6½	165	32	813	64	1626	18	457	101/4	260	25	635	2093	949

* Service clearance for check assembly from center. †UL/FM approved backflow preventers must include UL/FM approved OSY.

DOUBLE CHECK DETECTOR ASSEMBLY SPECIFICATION



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ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE | 06/09/17 ISSUED FOR BID (ID ONLY) 07/21/17

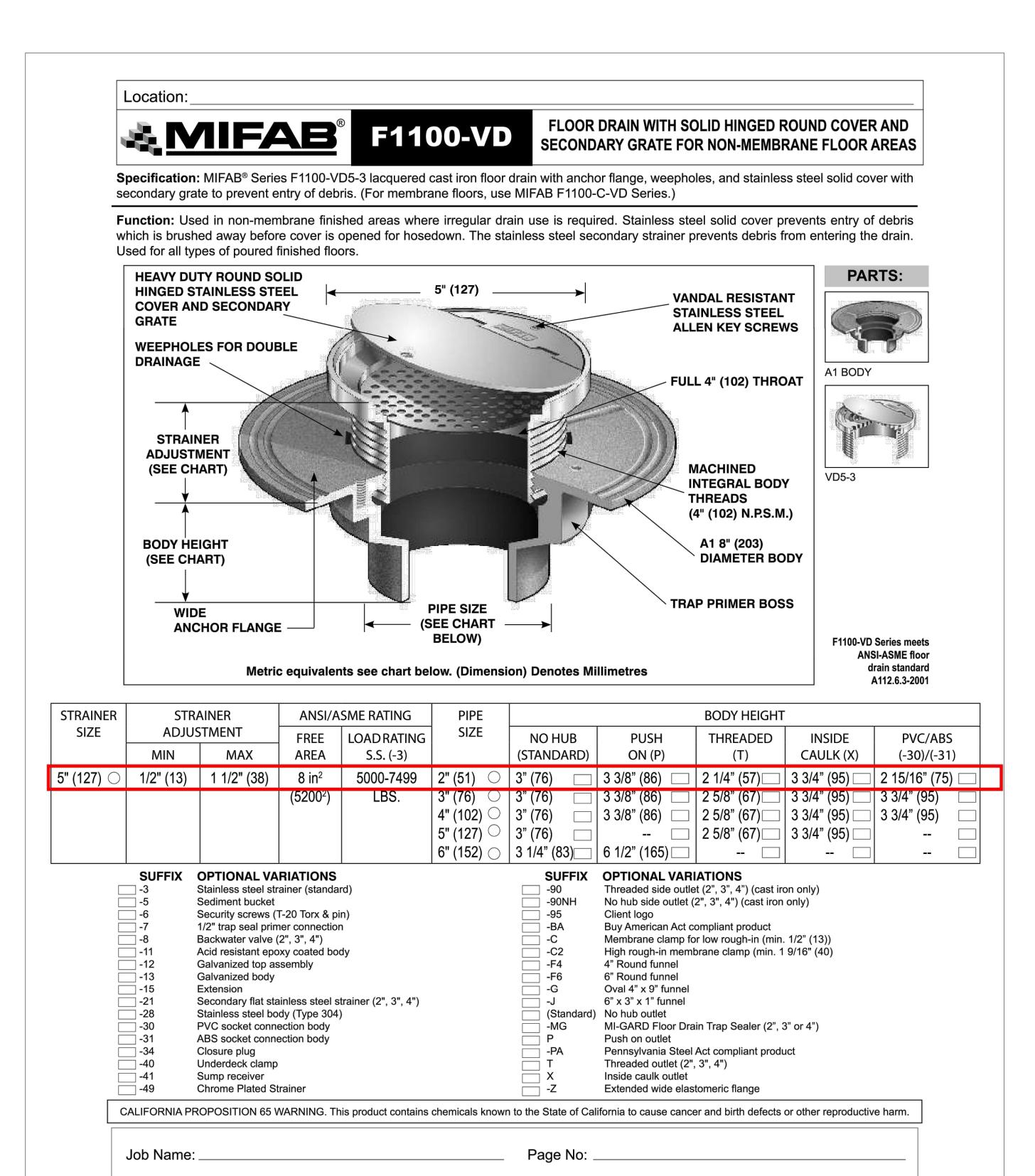
ALOFT MEMPHIS **DOWNTOWN**

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV

PLUMBING CUT SHEETS



Contractor:

Page F35

Purchase Order No:

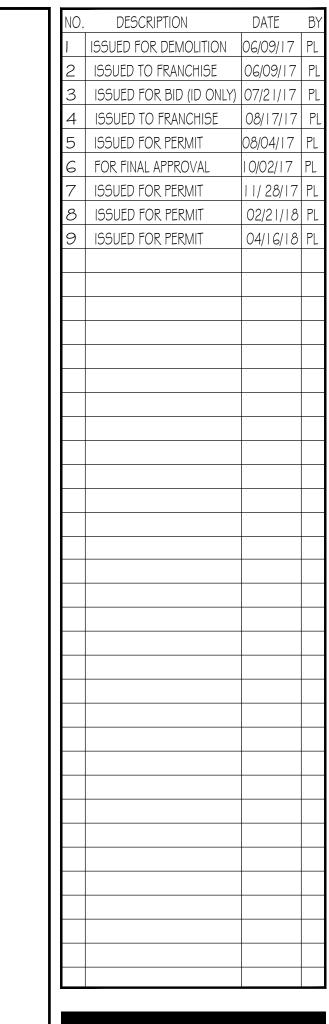
USA: 1-800-465-2736 www.mifab.com CAN: 1-800-387-3880

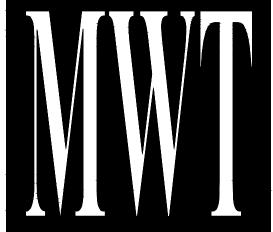
09-05-2016

Section No:

Schedule No:

MIFAB reserves the right to make changes in material and design without formal notice and obligation.





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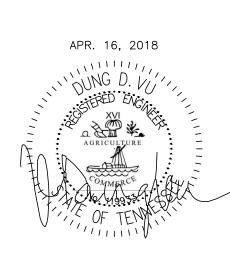
PROJECT NO.: 16 006 DATE: 07-21-2017

CHKD. BY: DV

FLOOR DRAIN CUT SHEET

SHEET

DRAWN BY: PL



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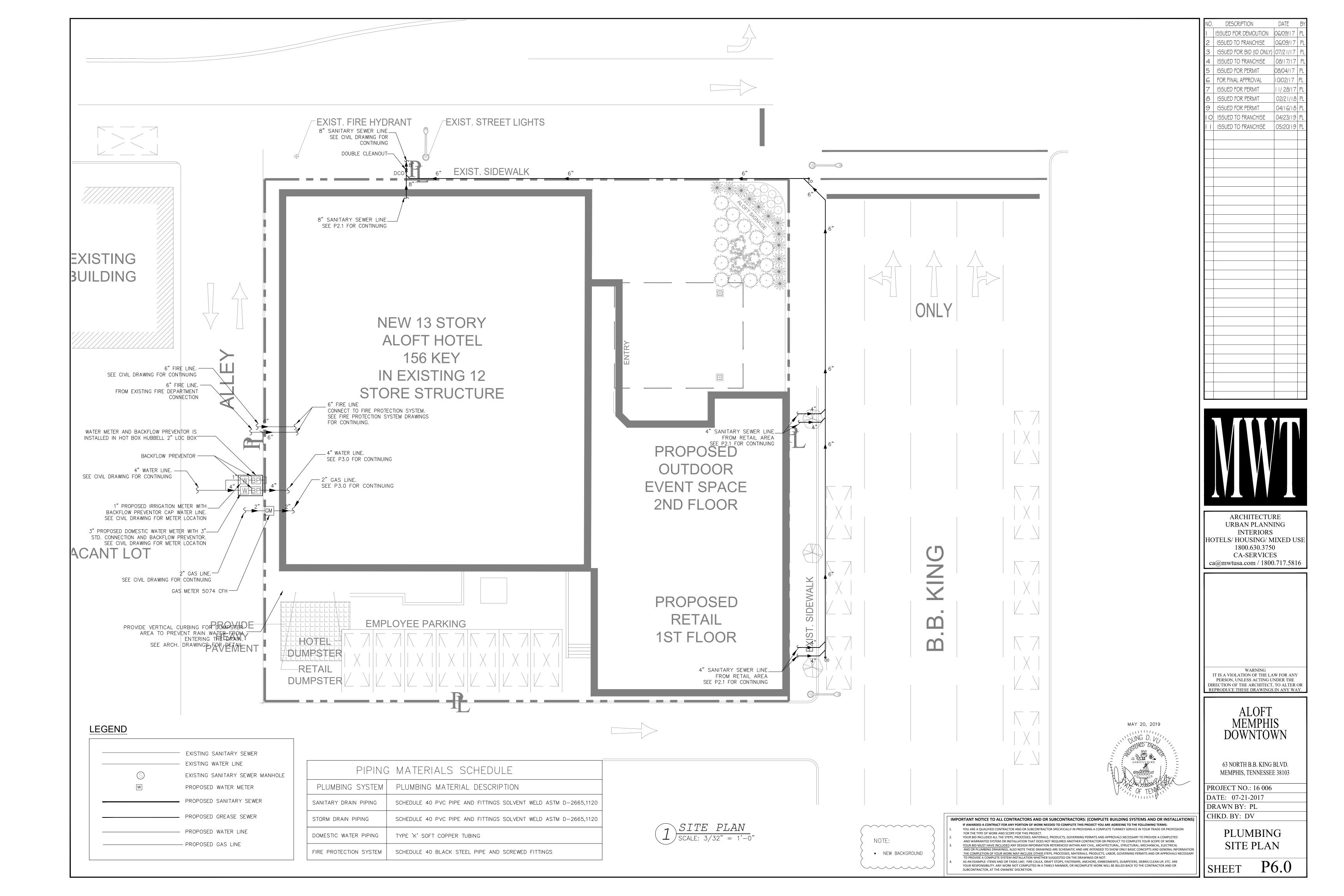
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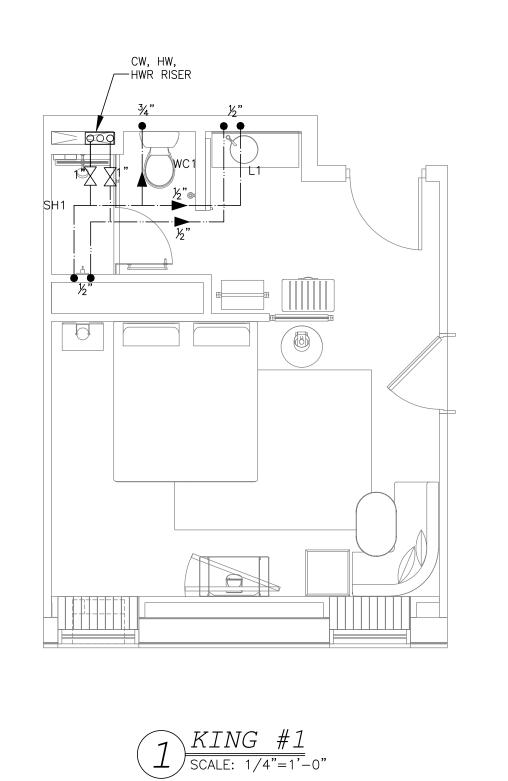
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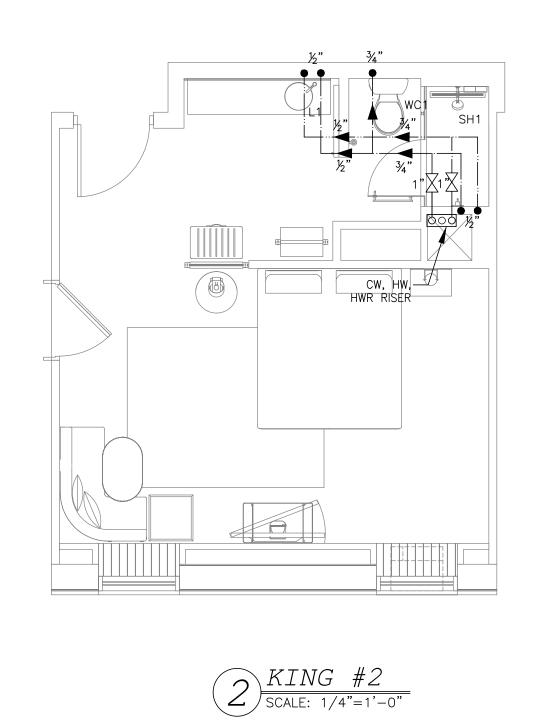
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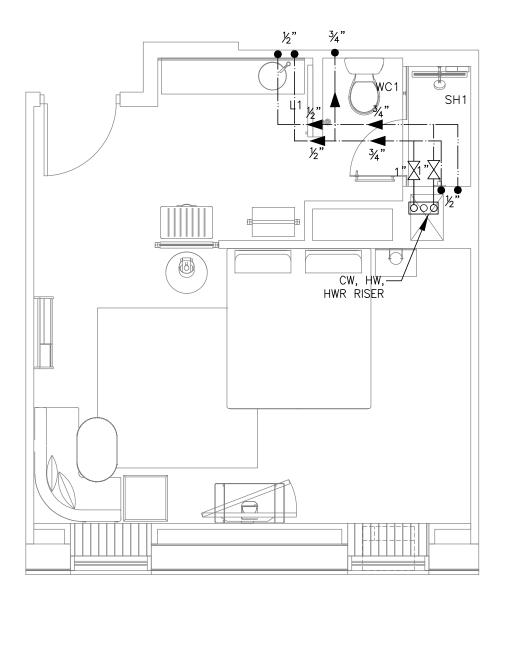
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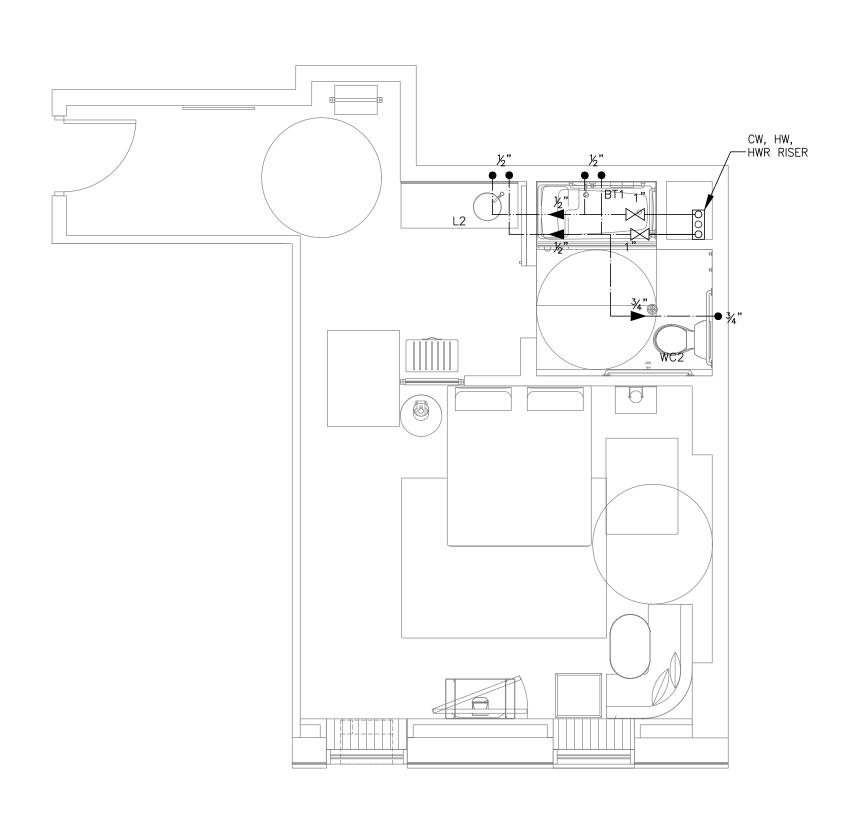


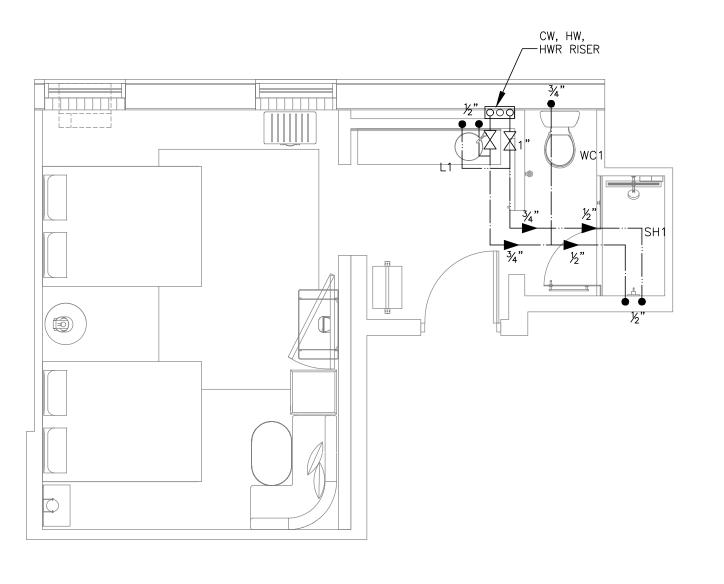


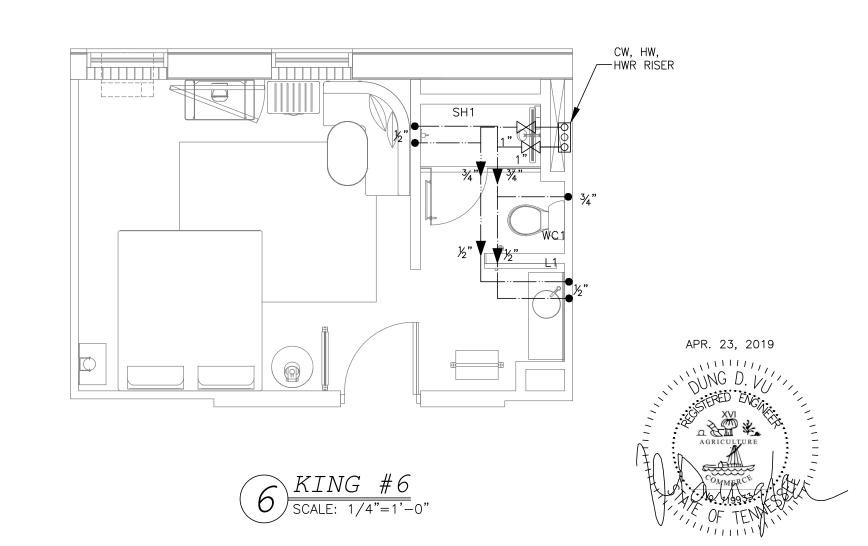




3 KING #3 SCALE: 1/4"=1'-0"







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NO.	DESCRIPTION	DATE	BY	
I	ISSUED FOR DEMOLITION	OG/09/17	PL	
2	ISSUED TO FRANCHISE	OG/09/17	PL	
3	ISSUED FOR BID (ID ONLY)	O7/21/17	PL	
4	ISSUED TO FRANCHISE	O8/17/17	PL	
5	ISSUED FOR PERMIT	O8/04/17	PL	
6	FOR FINAL APPROVAL	IO/02/17	PL	
7	ISSUED FOR PERMIT	O2/21/18	PL	
9	ISSUED FOR PERMIT	O4/16/18	PL	
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ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

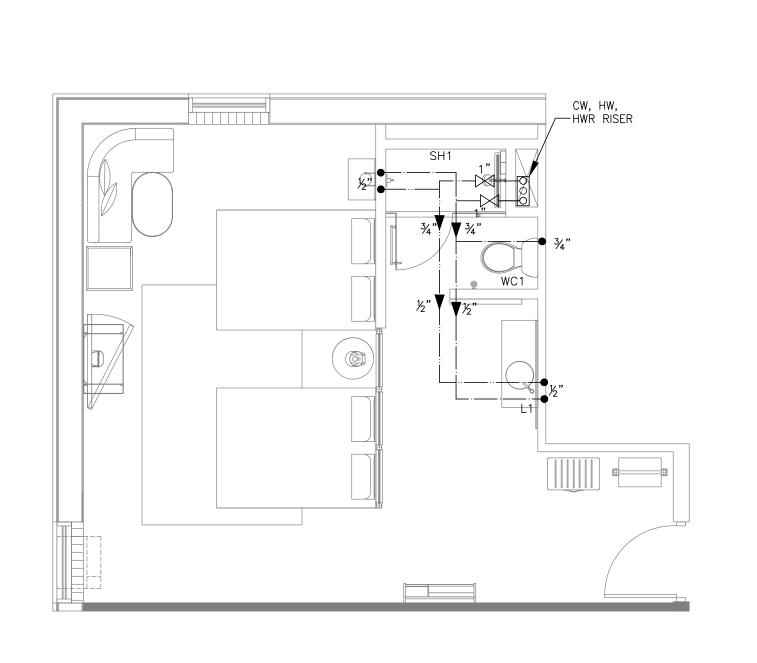
PROJECT NO.: 16 006
DATE: 07-21-2017
DRAWN BY: PL

CHKD. BY: DV

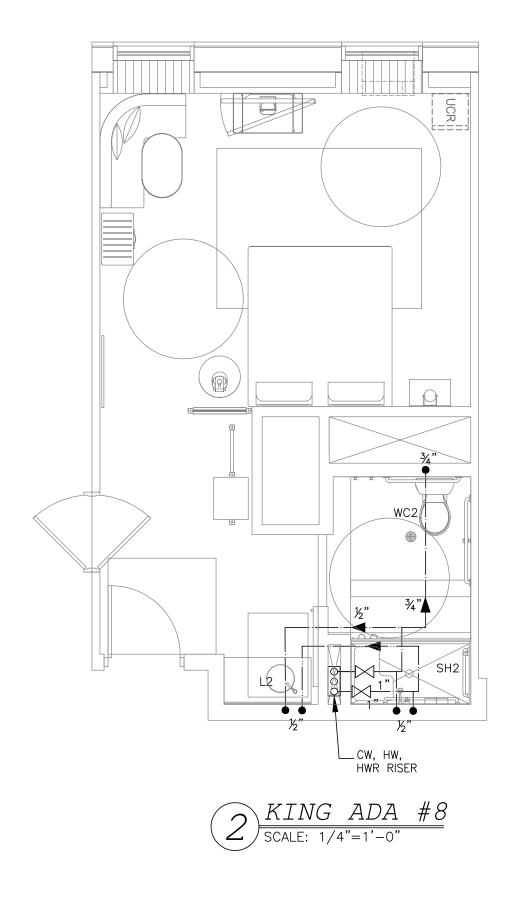
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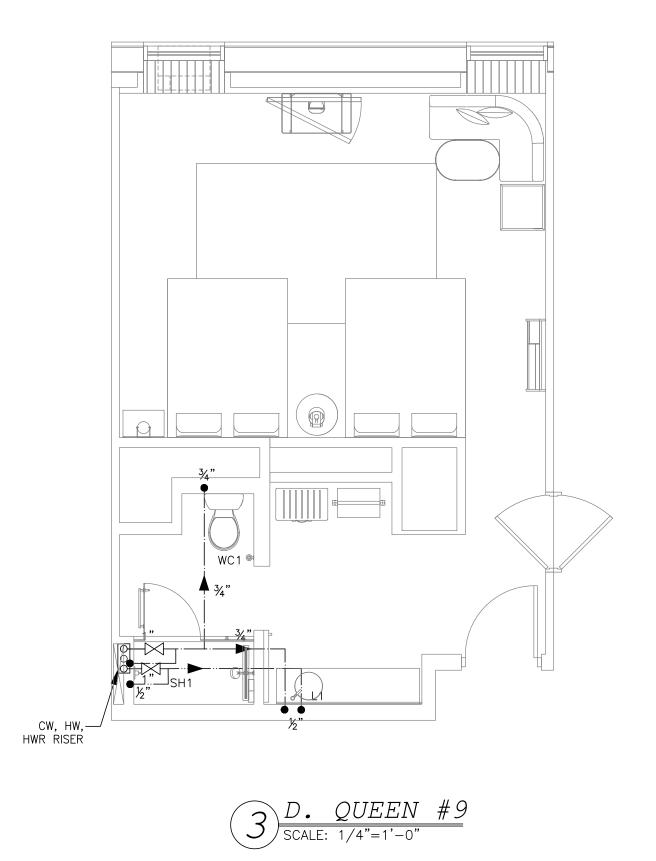
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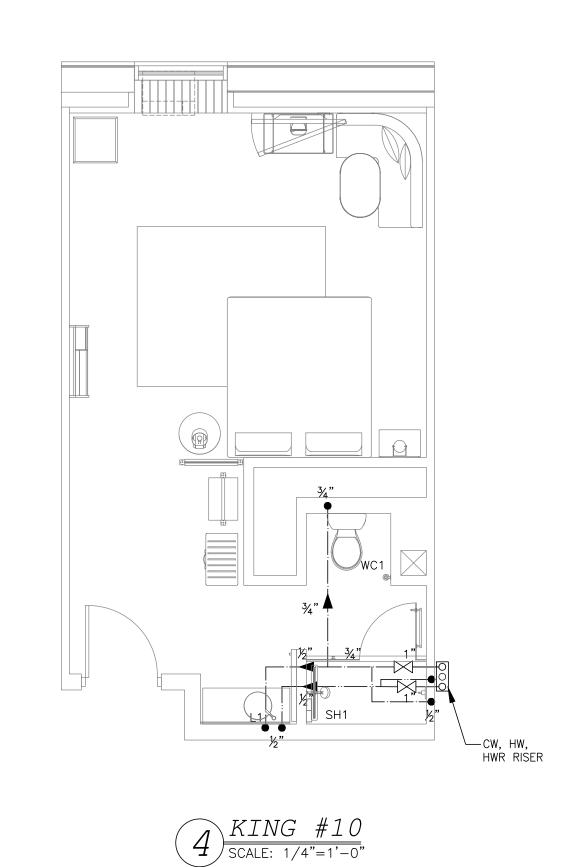
GUESTROOM D7 O

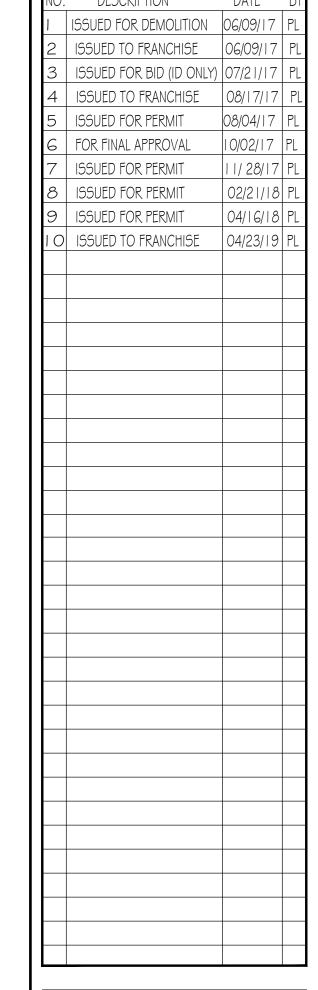


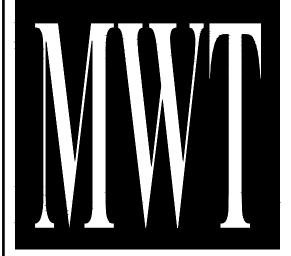
1 D. QUEEN #7
SCALE: 1/4"=1'-0"











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APR. 23, 2019

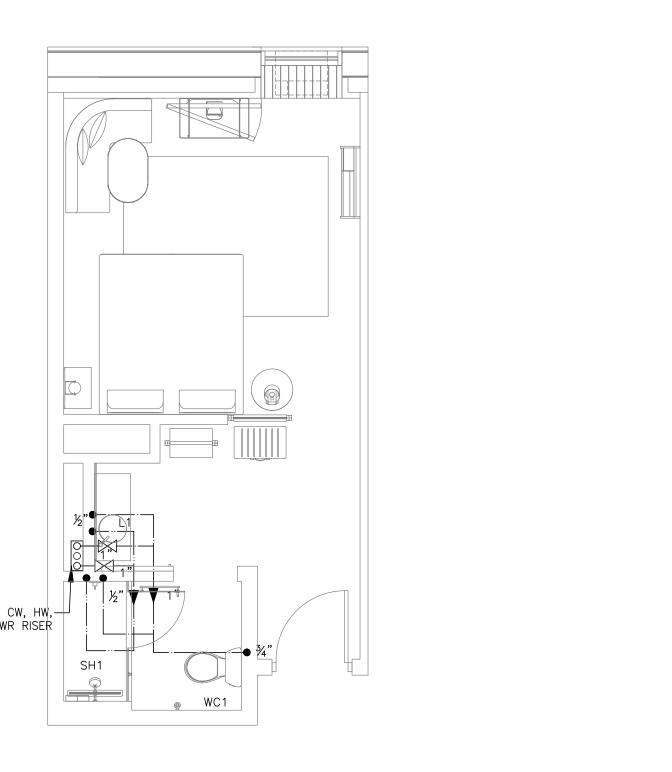
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006
DATE: 07-21-2017
DRAWN BY: PL

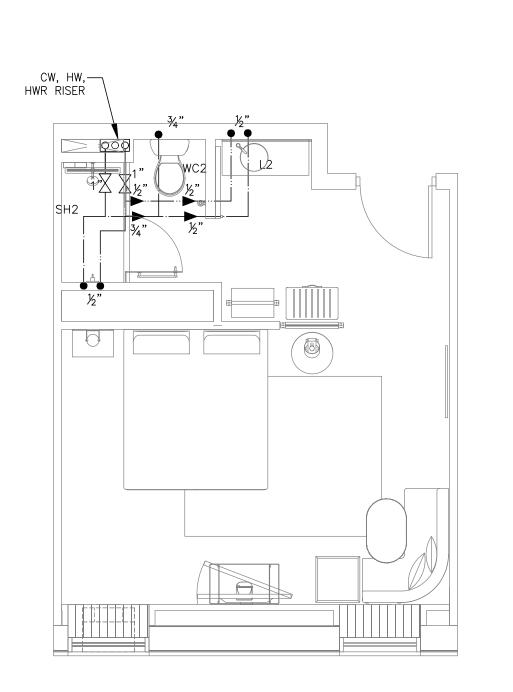
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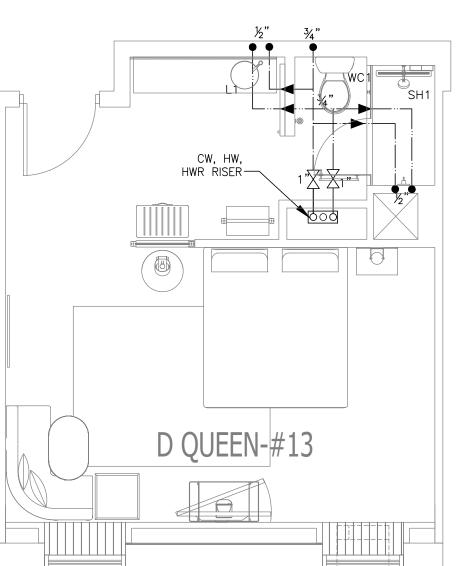
DOMESTIC WATER

TYPICAL GUESTROOM



5 KING #11 SCALE: 1/4"=1'-0"







6 KING ADA #12
SCALE: 1/4"=1'-0"

AGRICULTURE

COMMERCE

OF TEN

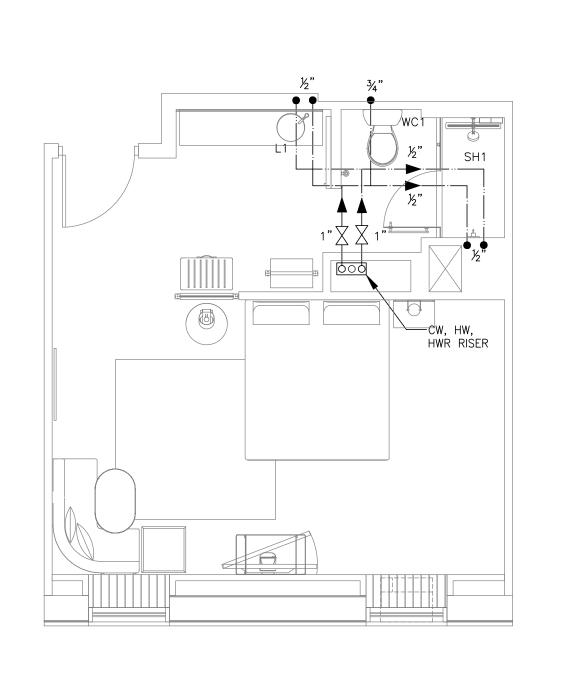
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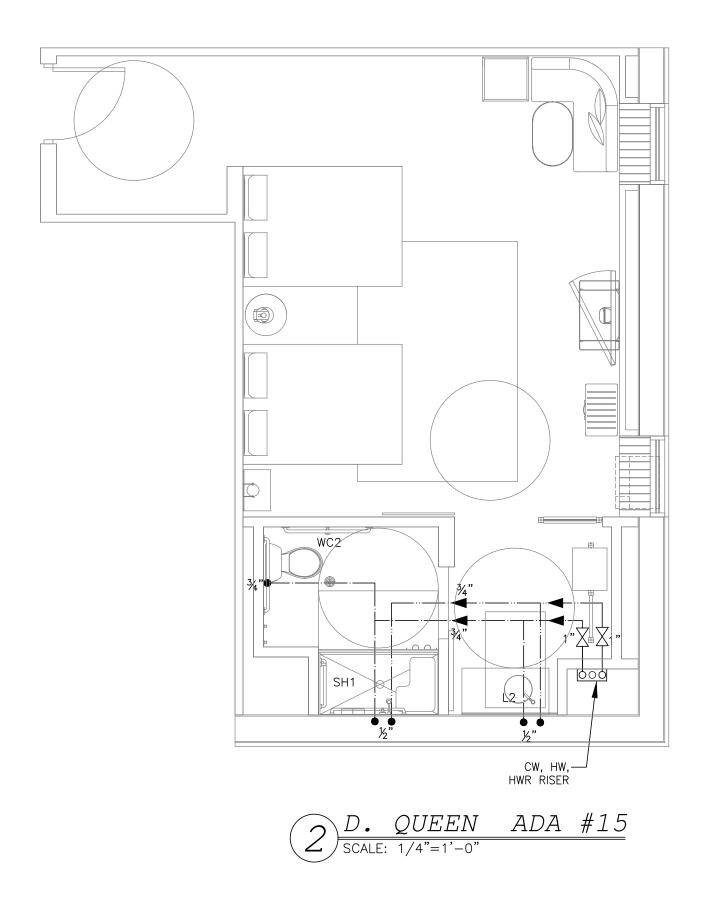
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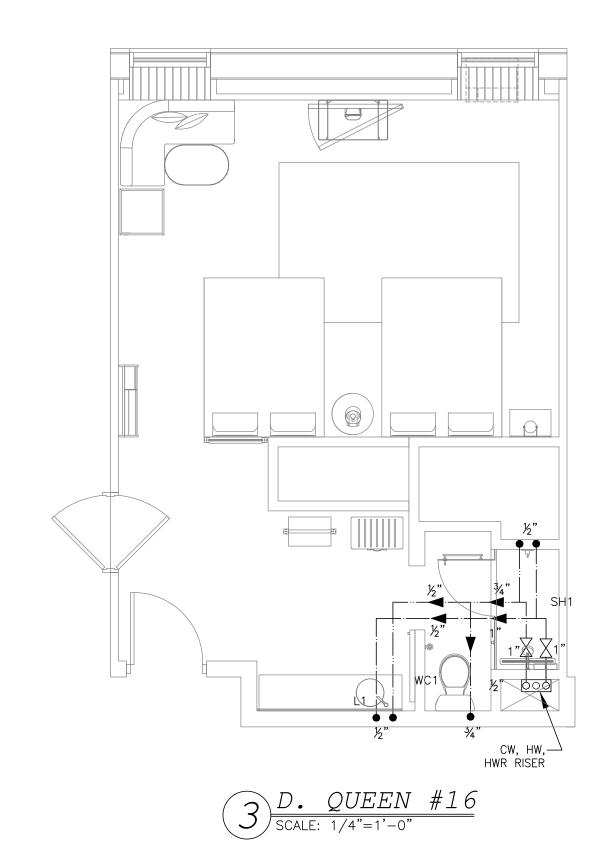
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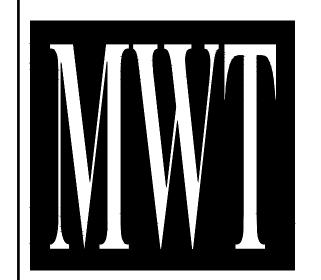
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1 SCALE: 1/4"=1'-0"







I O ISSUED TO FRANCHISE 04/23/19

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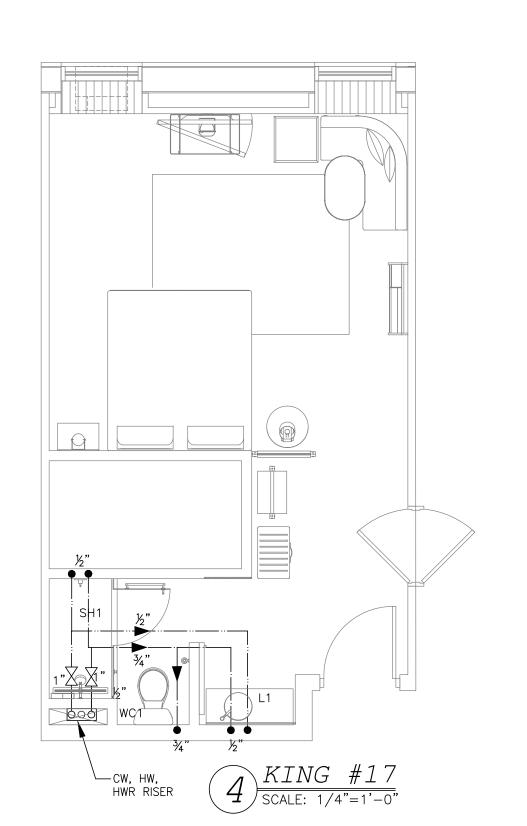
PROJECT NO.: 16 006 DATE: 07-21-2017

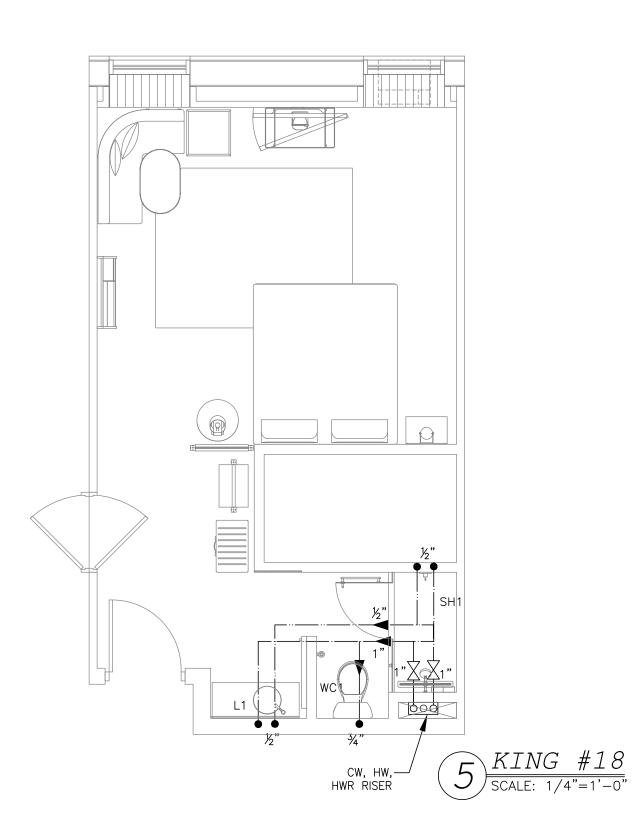
DRAWN BY: PL
CHKD. BY: DV

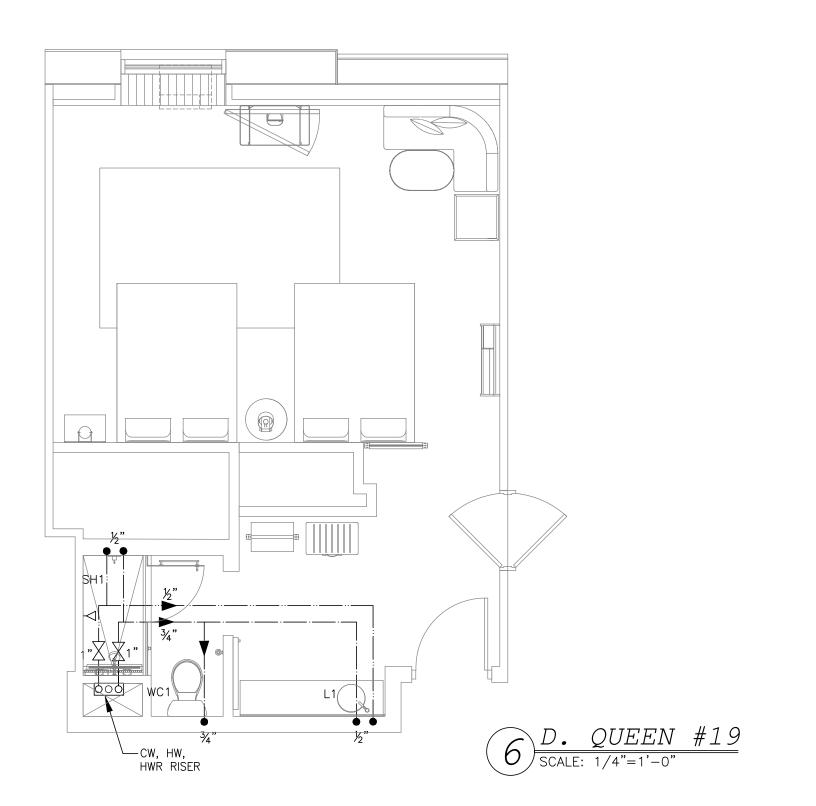
DOMESTIC WAT

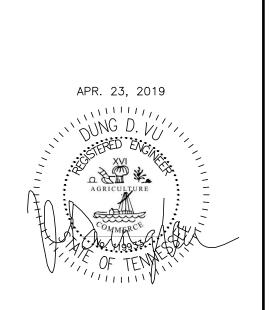
DOMESTIC WATER
TYPICAL
GUESTROOM

SHEET **P7.2**









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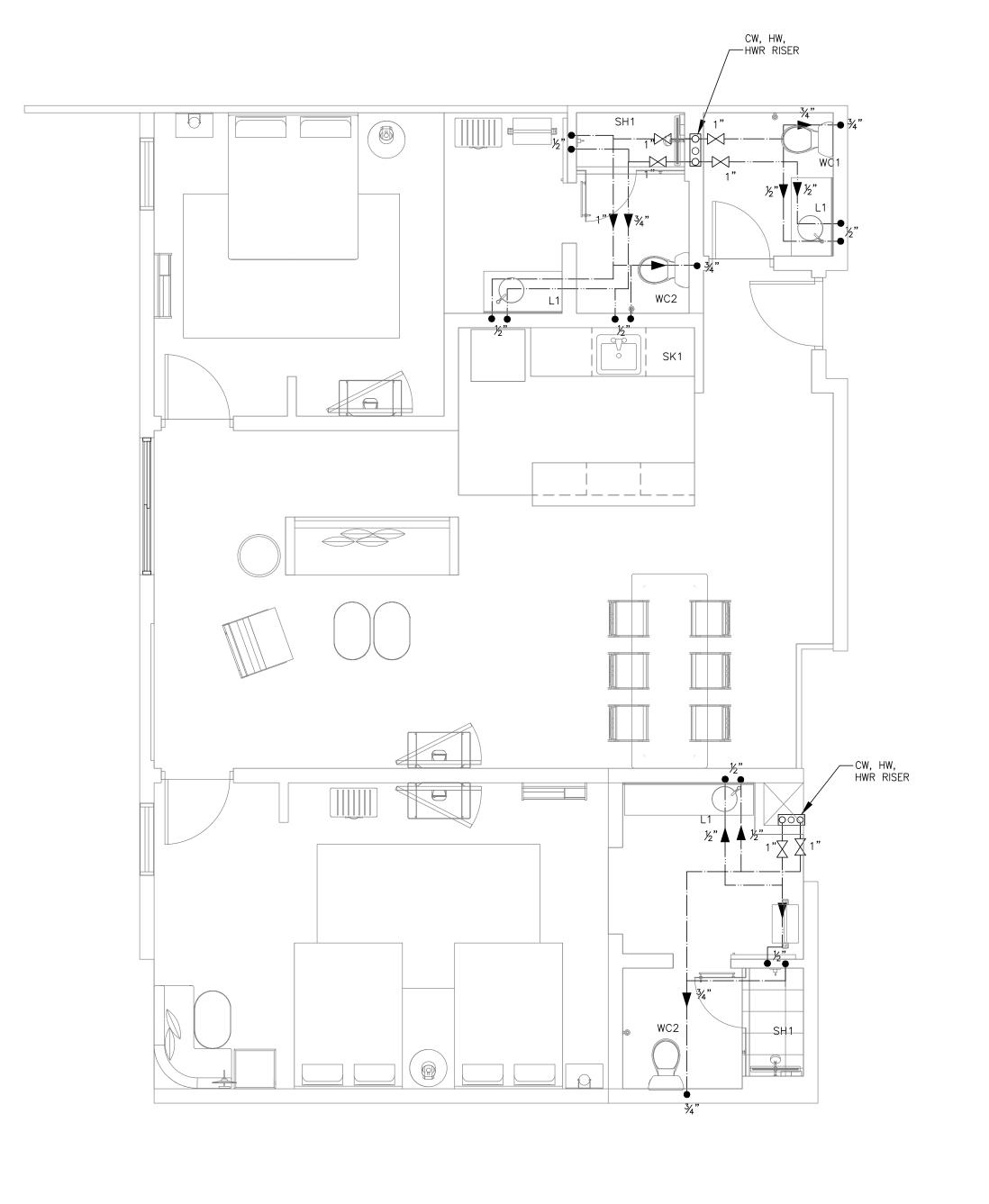
1. YOU ARE A QUALIFIED CONTRACTOR AND OR SUBCONTRACTOR SPECIFICALLY IN PROVIDING A COMPLETE TURNKEY SERVICE IN YOUR TRADE OR PROFESSION FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

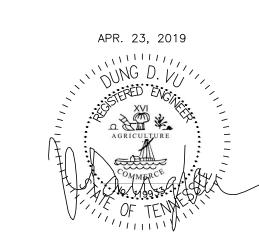
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 NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR DEMOLITION	06/09/17	PL
2	ISSUED TO FRANCHISE	06/09/17	PL
3	ISSUED FOR BID (ID ONLY)	07/21/17	PL
4	ISSUED TO FRANCHISE	08/17/17	PL
5	ISSUED FOR PERMIT	08/04/17	PL
6	FOR FINAL APPROVAL	10/02/17	PL
7	ISSUED FOR PERMIT	11/28/17	PL
8	ISSUED FOR PERMIT	02/21/18	PL
9	ISSUED FOR PERMIT	04/16/18	PL
10	ISSUED TO FRANCHISE	04/23/19	PL



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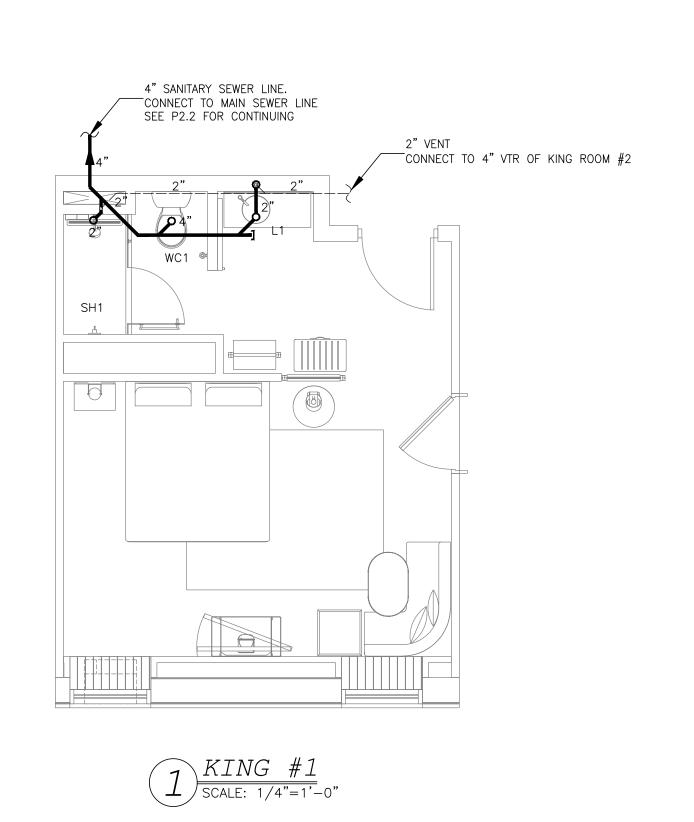
ALOFT MEMPHIS DOWNTOWN

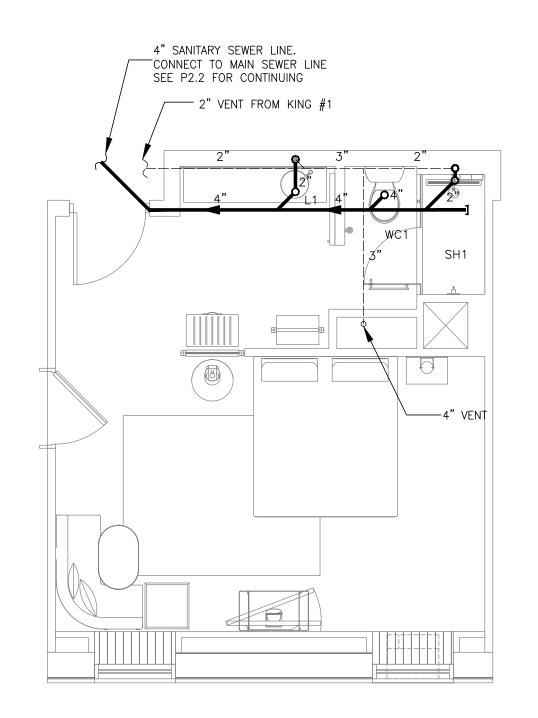
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017

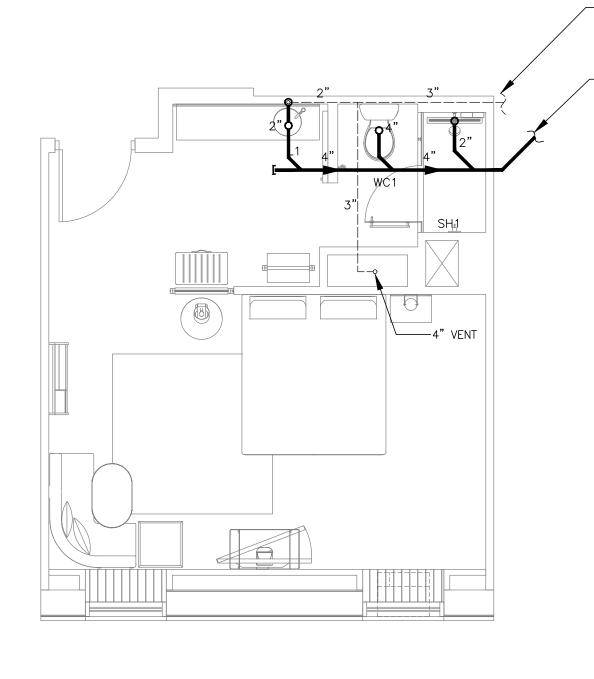
DRAWN BY: PL CHKD. BY: DV

DOMESTIC WATER TYPICAL SUITE

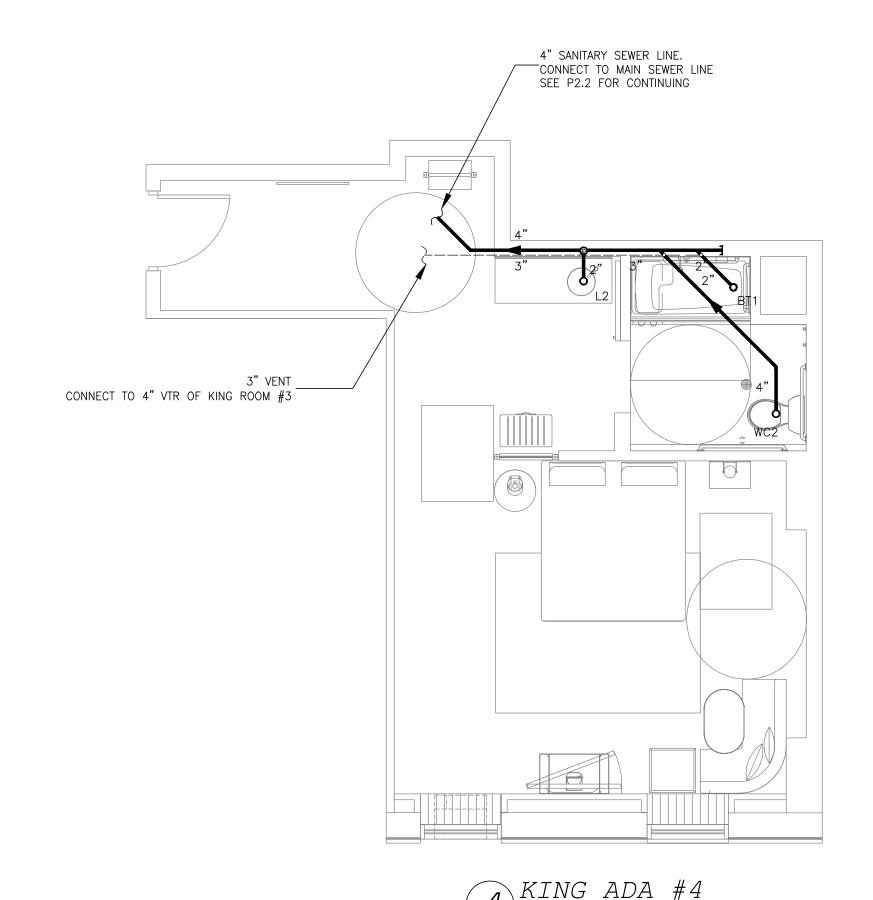


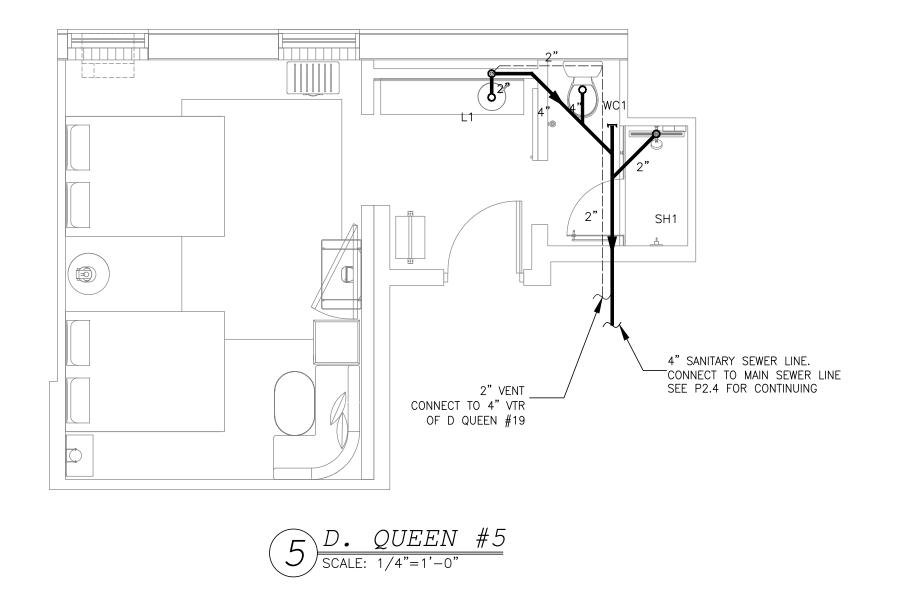


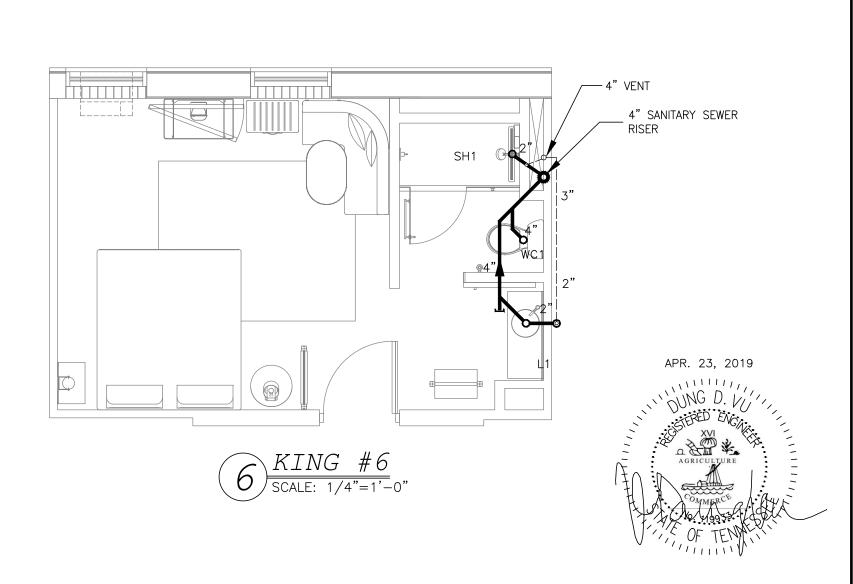
2 KING #2
SCALE: 1/4"=1'-0"



3 KING #3 SCALE: 1/4"=1'-0"







--- 3" VENT FROM KING-ADA #4

4" SANITARY SEWER LINE.

CONNECT TO MAIN SEWER LINE
SEE P2.2 FOR CONTINUING

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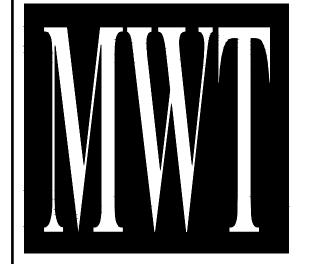
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10 ISSUED TO FRANCHISE 04/23/19 PL



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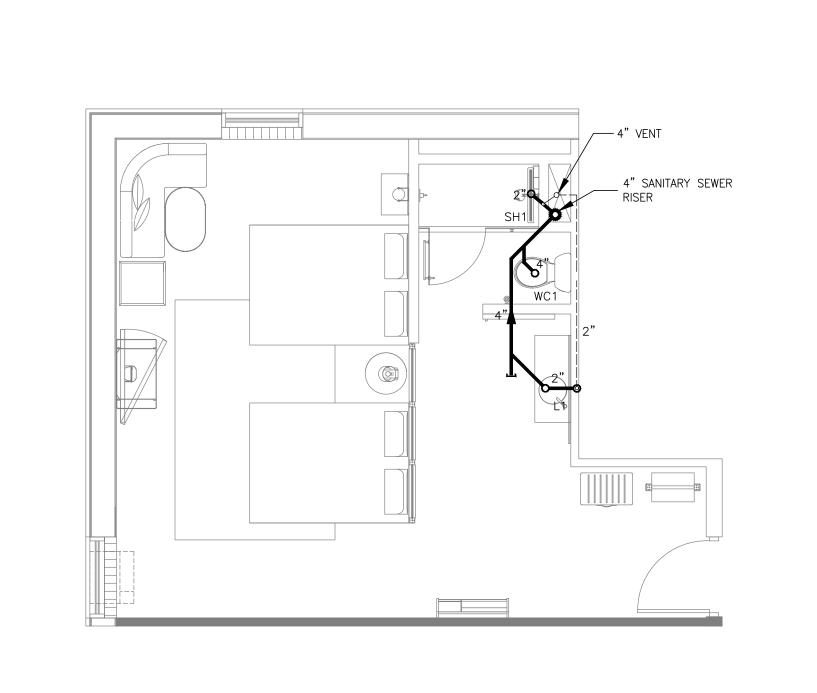
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017 DRAWN BY: PL

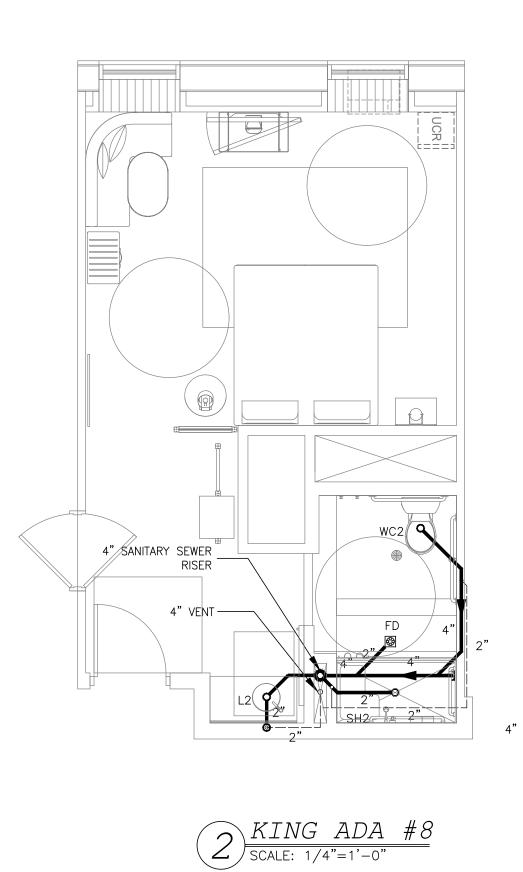
CHKD. BY: DV
SANITARY SEWER
TYPICAL

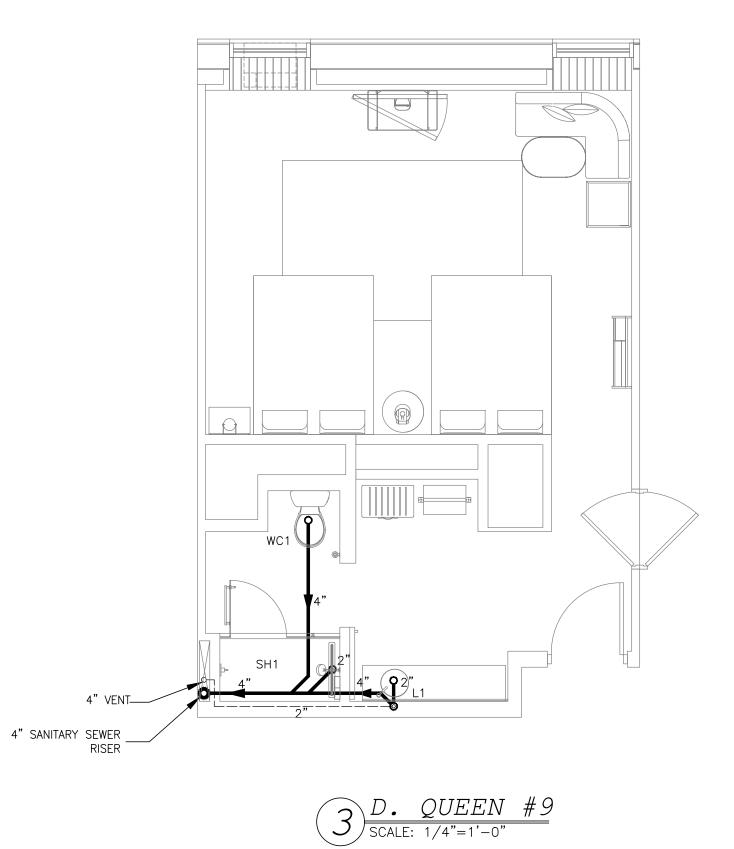
GUESTROOM

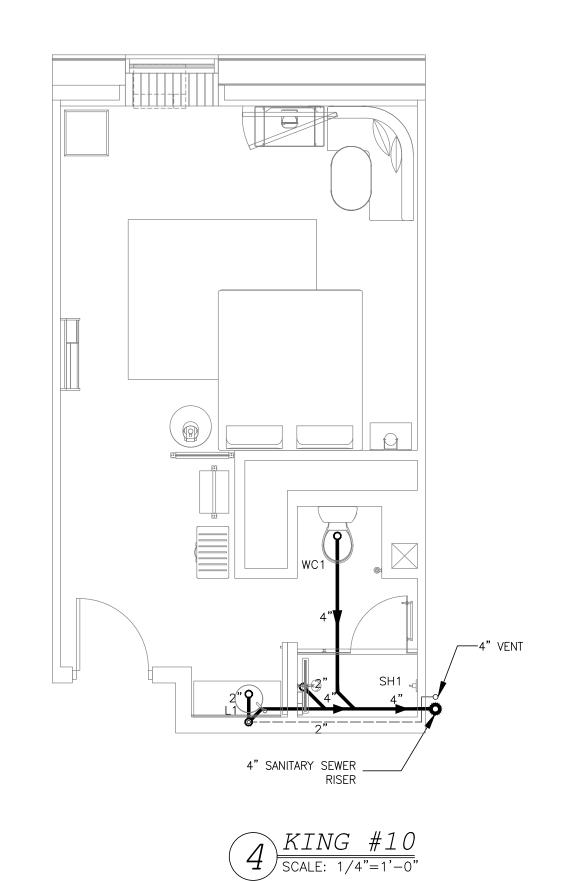
HEET **P7.4**

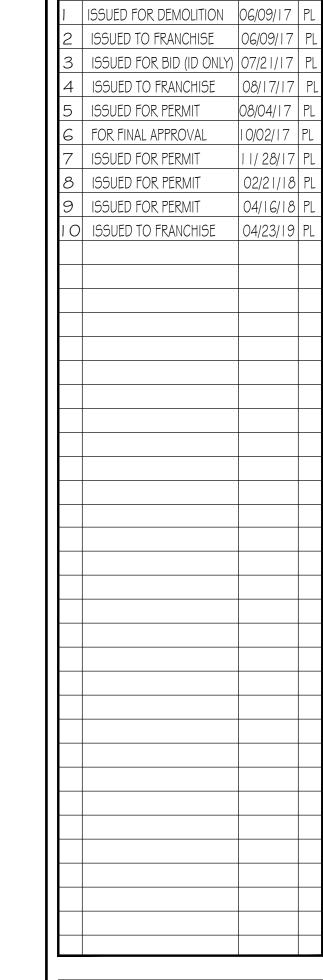


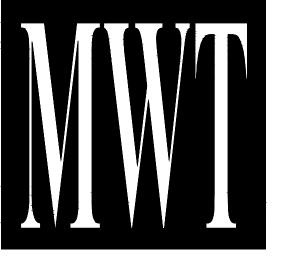
D. QUEEN #7
SCALE: 1/4"=1'-0"











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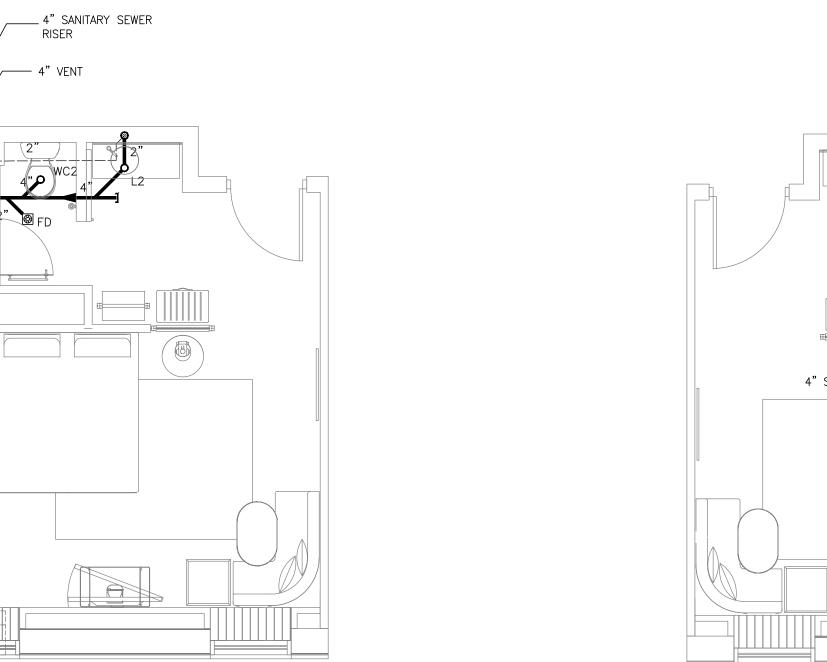
PROJECT NO.: 16 006 DATE: 07-21-2017

DRAWN BY: PL CHKD. BY: DV SANITARY SEWER

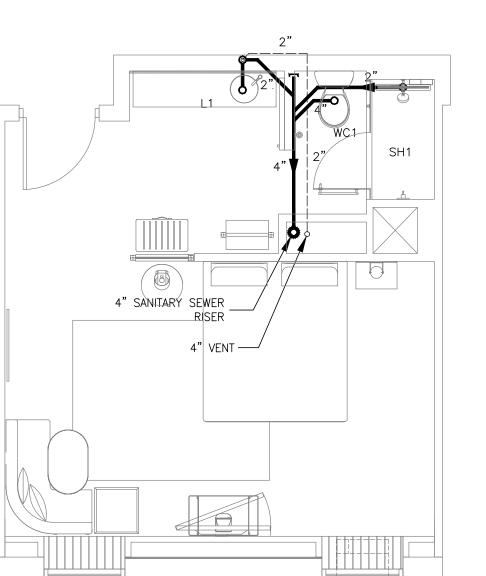
TYPICAL GUESTROOM

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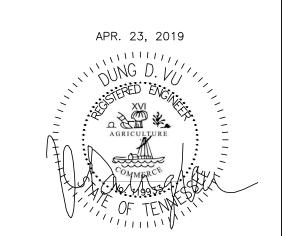
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6 KING ADA #12
SCALE: 1/4"=1'-0"



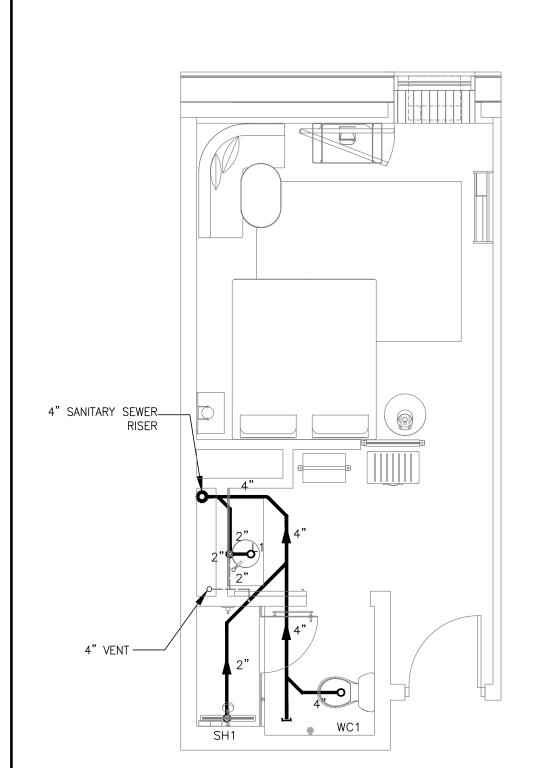




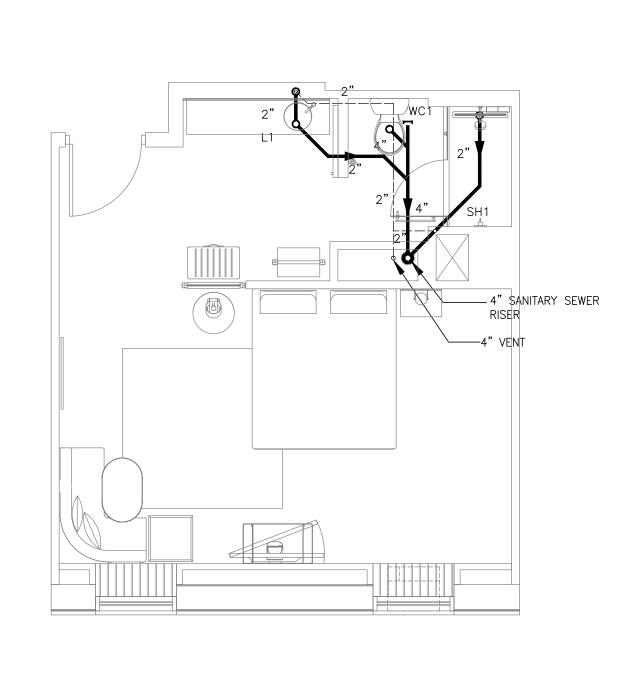
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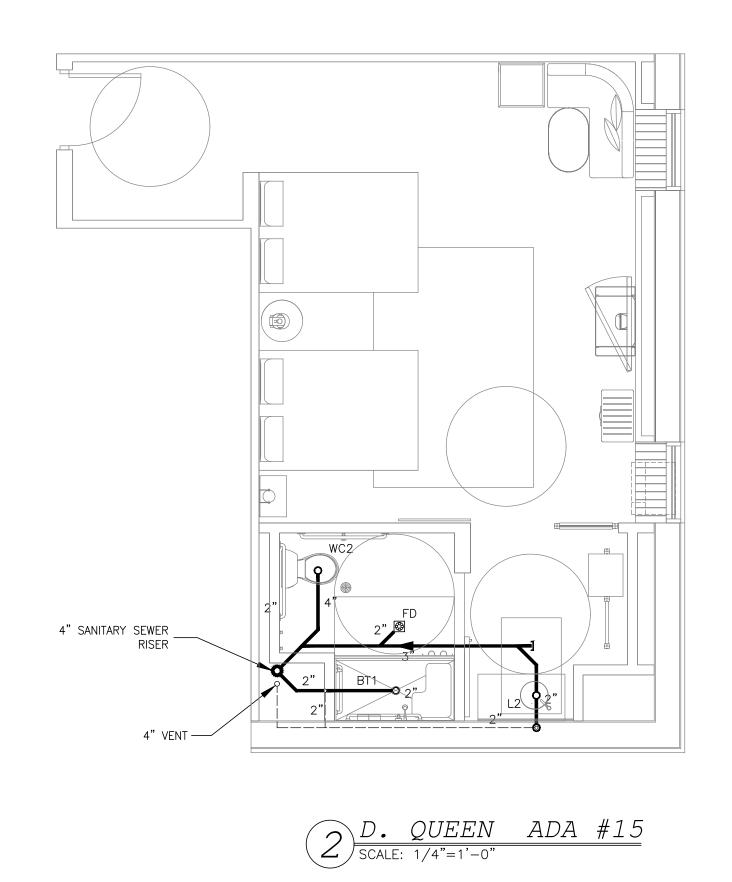
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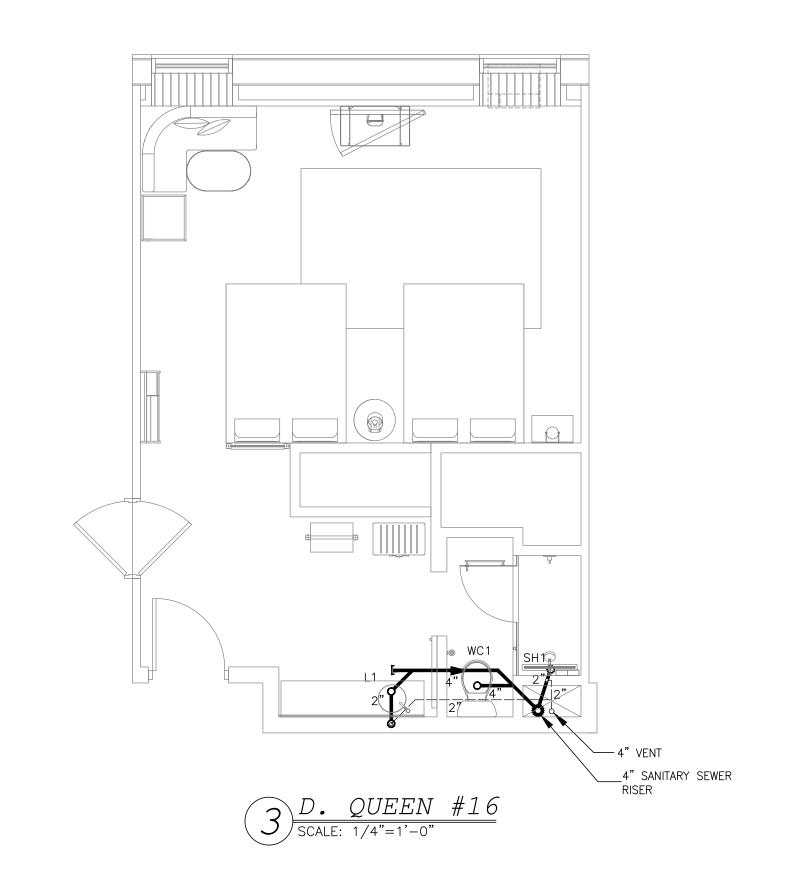


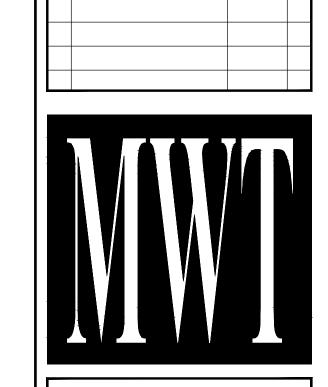




1 KING #14 SCALE: 1/4"=1'-0"







ISSUED FOR DEMOLITION 06/09/17

I O ISSUED TO FRANCHISE 04/23/19

ISSUED FOR PERMIT

9 ISSUED FOR PERMIT

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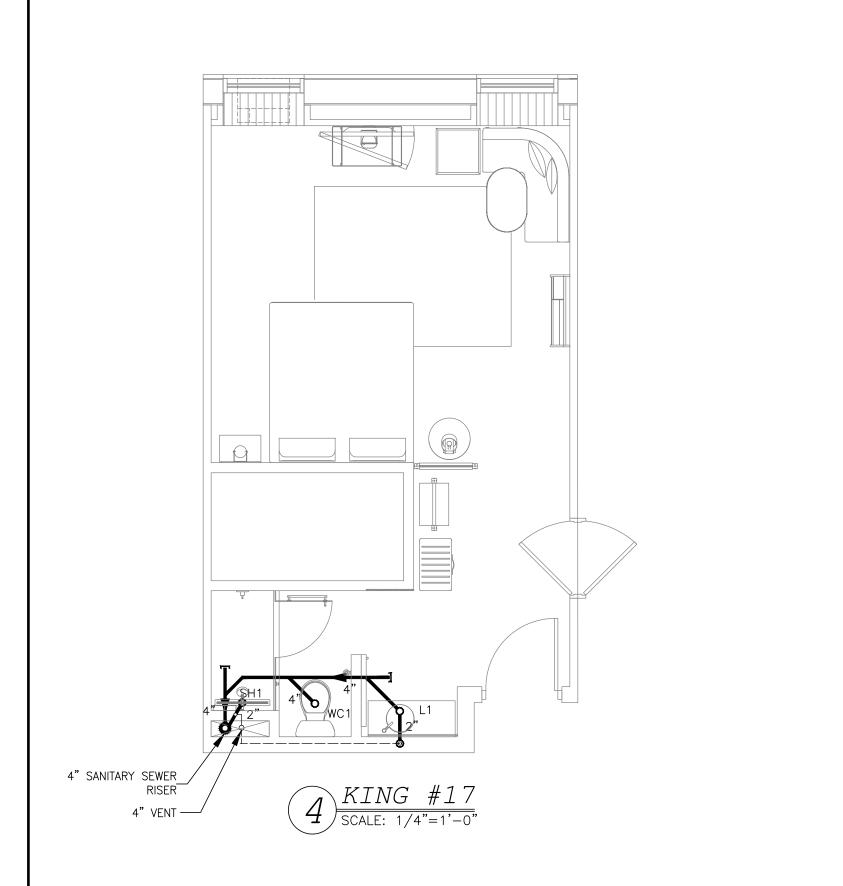
63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

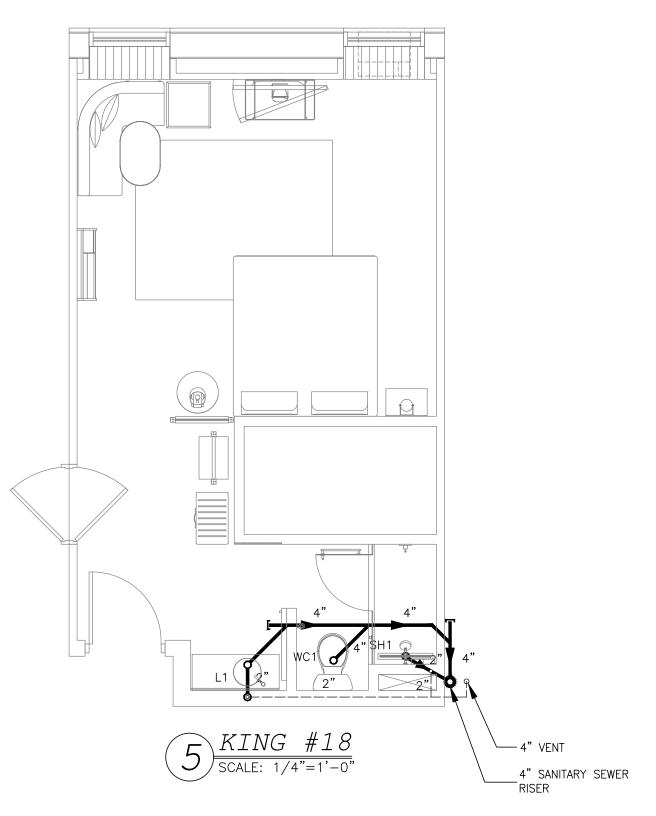
PROJECT NO.: 16 006
DATE: 07-21-2017

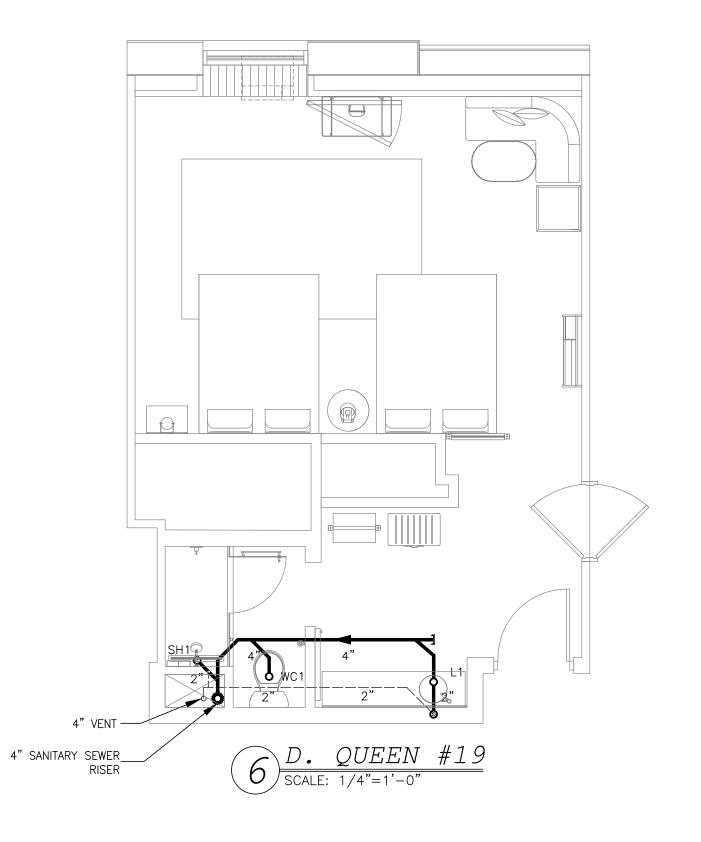
DRAWN BY: PL
CHKD. BY: DV
SANITARY SEWIE

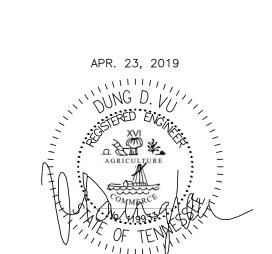
SANITARY SEWER
TYPICAL
GUESTROOM

sнеет **Р7.6**









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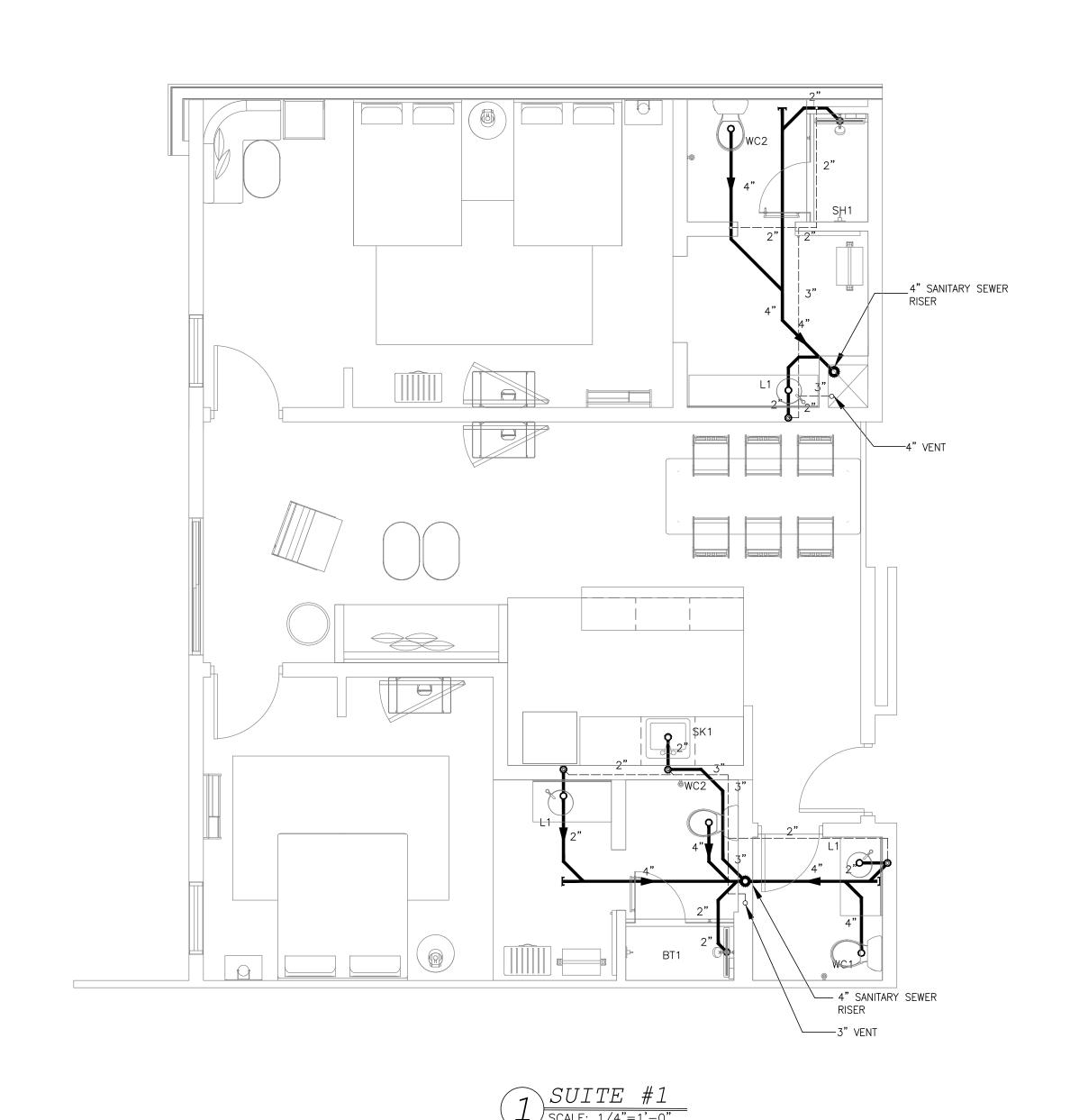
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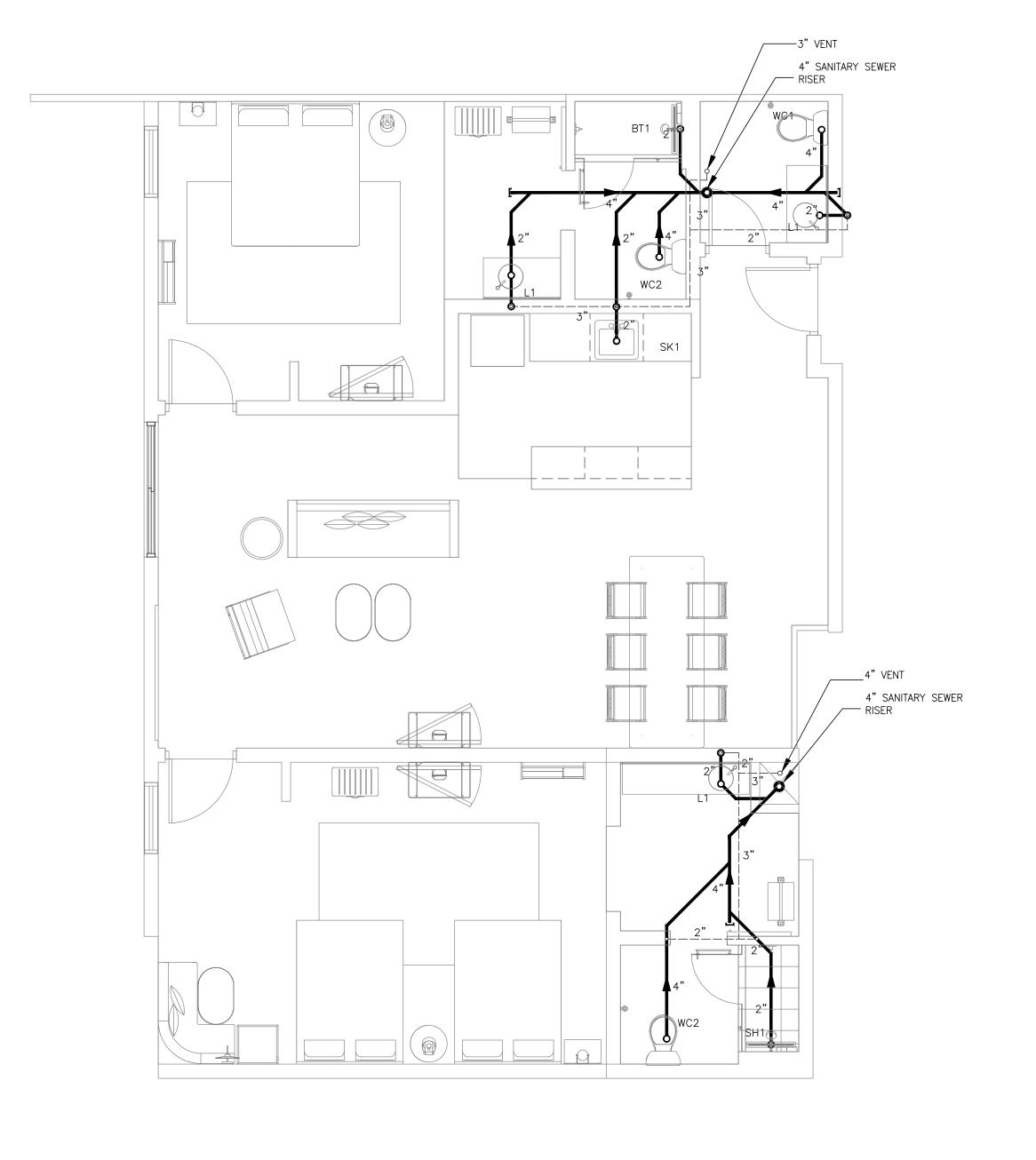
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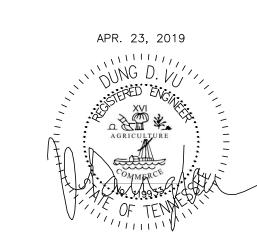
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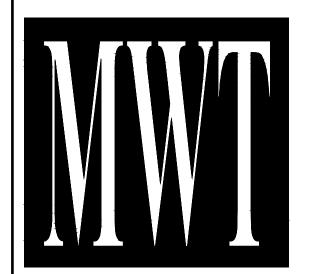


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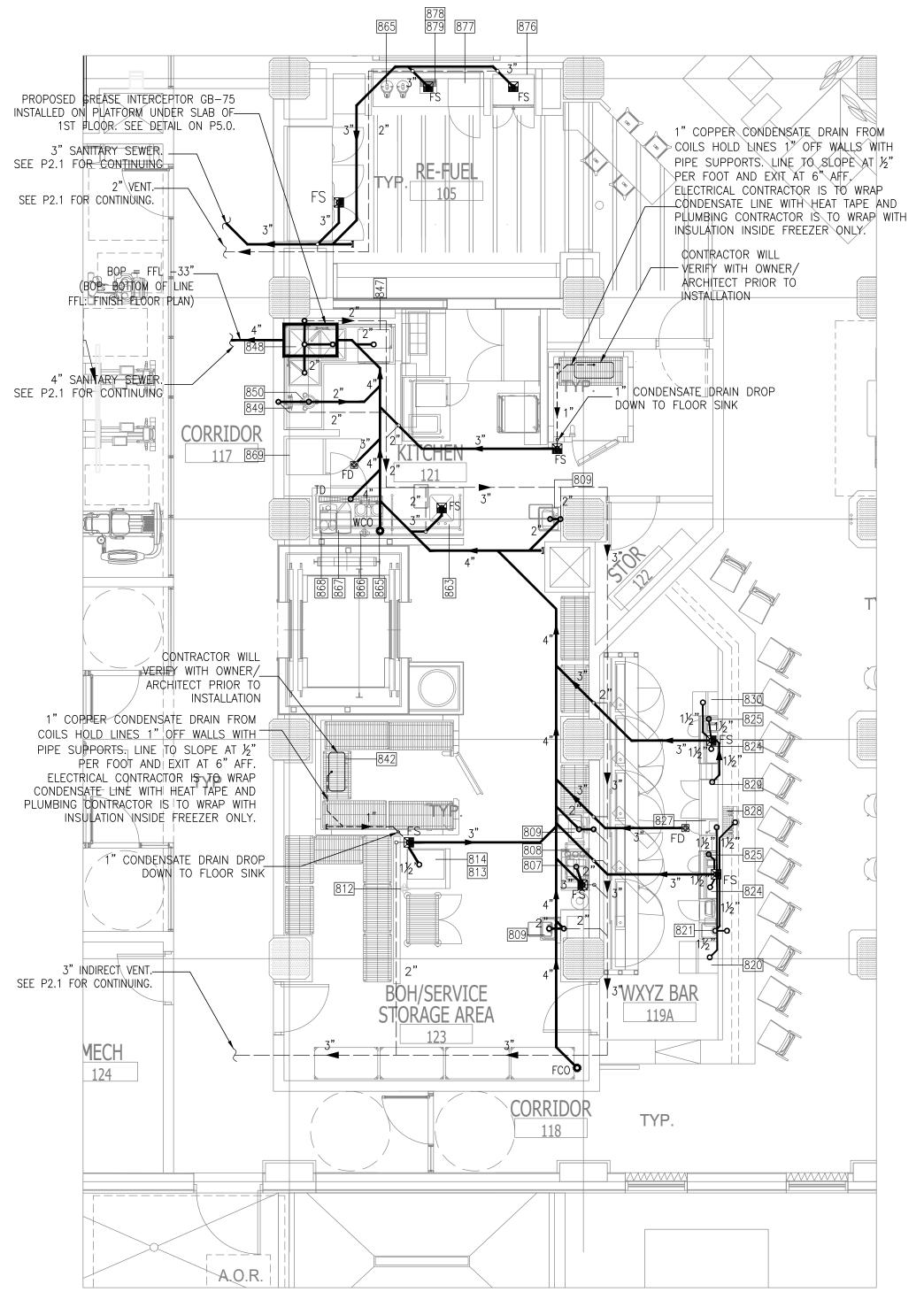
ALOFT MEMPHIS DOWNTOWN

63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006 DATE: 07-21-2017 DRAWN BY: PL

CHKD. BY: DV

SANITARY SEWER TYPICAL SUITE



 $\frac{DOMESTIC\ WATER}{KITCHEN\ PLAN}$ SCALE: 3/16"=1'-0"

EQUIPMENT SCHEDULE - KITCHEN AREAS (THE PLUMBING FIXTURES SHALL BE VERIFIED BY FRANCHISE/OWNER PRIOR TO PURCHASING OR INSTALLATION)

TEM	QTY.	DESCRIPTION	MANUFACTURE	MODEL	GAS	WAS-	ΓE		WATER	}
					BTUH	WASTE- INDIRECT	WASTE- DIRECT	НОТ	COLD	FILTER
809	2	HAND SINK	ADVANCE TABCO	7-PS-80			2"	1/2"	1/2"	
847	1	UNCOUNTER DISH WASHER	HOBART/ LXEH				2"	3/4"		
848	1	3 COMPARTMENT SINK	ADVANCE TABCO	94-K3-11D			3"			
	1	PRE-RINSE UNIT	T & S BRASS	B-0113-A06-08C				(2)3/4"	(2)3/4	
849	1	DISPOSER	RED GOAT	A2P-R7			2"		1/2"	
850	1	SPRAY RINSE	FISHER	89745				1/2"	1/2"	
863	1	BEVERAGE COUNTER W/SINK	ADVANCE/ TABCO			1 1/2" TO FS		1/2"	1/2"	
	1	FAUCET	T & S BRASS	B-0221-CC				1/2"	/	
865	4	COFFEE BREWER W/ AIRPORTS	FETC0	CBS-52H-15		1" TO FS			3/8"	Υ
866	1	WATER FILTER	EVERPURE	INSURICE SINGLE					1/2"	
867	1	UNDERCOUNTER REFRIGERATOR	TRUE	TUC-27						
868	1	ESPRESSO MACHINE	VERISMO	701					3/8"	Υ
869	1	REACH—IN FREEZER	TRUE	T-23F						
876	1	GLASS DOOR REFRIGERATOR	TRUE	GDM-30-HC-LD						
877	1	GLASS DOOR FREEZER	EXCELLENCE	CTF-3						
878	1	WATER FILTER AND DRAIN	T&S	EC-3101/ B-1231		1" TO FS				
879	1	WATER FILTER	EVERPURE	INSURICE SINGLE					1/2"	

EQUIPMENT SCHEDULE — Wxyz BAR (the plumbing fixtures shall be verified by franchise/owner

PRI	IOR	TO PURCHASING OR INSTALLATION	N)	·						
ITEM	QTY.	DESCRIPTION	MANUFACTURE	MODEL	GAS	WAST	ГЕ		WATER	7
					BTUH	WASTE- INDIRECT	WASTE- DIRECT	нот	COLD	FILTER
807	1	BEER SYSTEM	GENERIC			2" TO FS				
808	1	SODA SYSTEM	GENERIC						1/2"	
809	1	HAND SINK	ADVANCE TABCO	7-PS-80		2" TO FS		1/2"	1/2"	
812	1	WATER FILTER	EVERPURE/ INSURICE						1/2"	
813	1	ICE MAKER	MANITOWOC	IY-0454A					1/2"	Υ
814		ICE BIN	MANITOWOC	B400		1 1/2" TO FS				
820	1	GLASS WASHER	HOBART	LXE- PR SHORT		1 1/2" TO FS		3/4"		
821	1	WET WASTE STAND	PERLICK	TSD12HS		1 1/2" TO FS		1/2"	1/2"	
824	2	COMBO ICE BIN	PERLICK	TSC36IC-10		1 1/2" TO FS				
825	2	SODA GUN	GENERIC			1 1/2" TO FS			1/2"	
827	1	HAND SINK	PERLICK	TS18HSN		1 1/2" TO FS		1/2"	1/2"	
828	1	BEER TOWER	GENERIC			1 1/2" TO FS				
829	1	DRAINBOARD CABINET	PERLICK	SC30		1 1/2 " TO FS				
830	1	CORNER DRAINBOARD	PERLICK	TSF90TC		1 1/2"TO FS				
842	1	REFRIGERATION SYSTEM +35F	BOHN/ PER PLAN			1" TO FS				

117 869

PREVENTOR

MACHINE

WATER FILTER

WATER FILTER

1¼" | ♣1¼"

BOH/SERVICE2"

1½"CW, 1½"HW 140°F SEE P3.1 FOR CONTINUING

"IN 140°F CORRIDUR 40°F

 $2^{SANITARY\ SEWER\atop KITCHEN\ PLAN\atop SCALE:\ 3/16"=1'-0"}$

⅓"ew FOR ESPRESSO

%"CW COFFEE BREWER-

TYP.

MECH

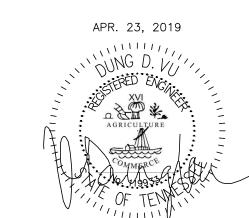
124



SUBCONTRACTOR, AT THE OWNERS' DISCRETION.

_³/₄"CW, 1"HW 140°F DROP DOWN TO BAR

AREA



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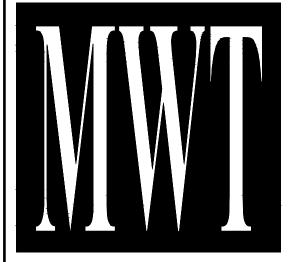
BACKFLOW PREVENTOR TINSTALLED 16 A.F.F.

₩½"CW FOR

THERMOSTATIC

THERMOSTATIC

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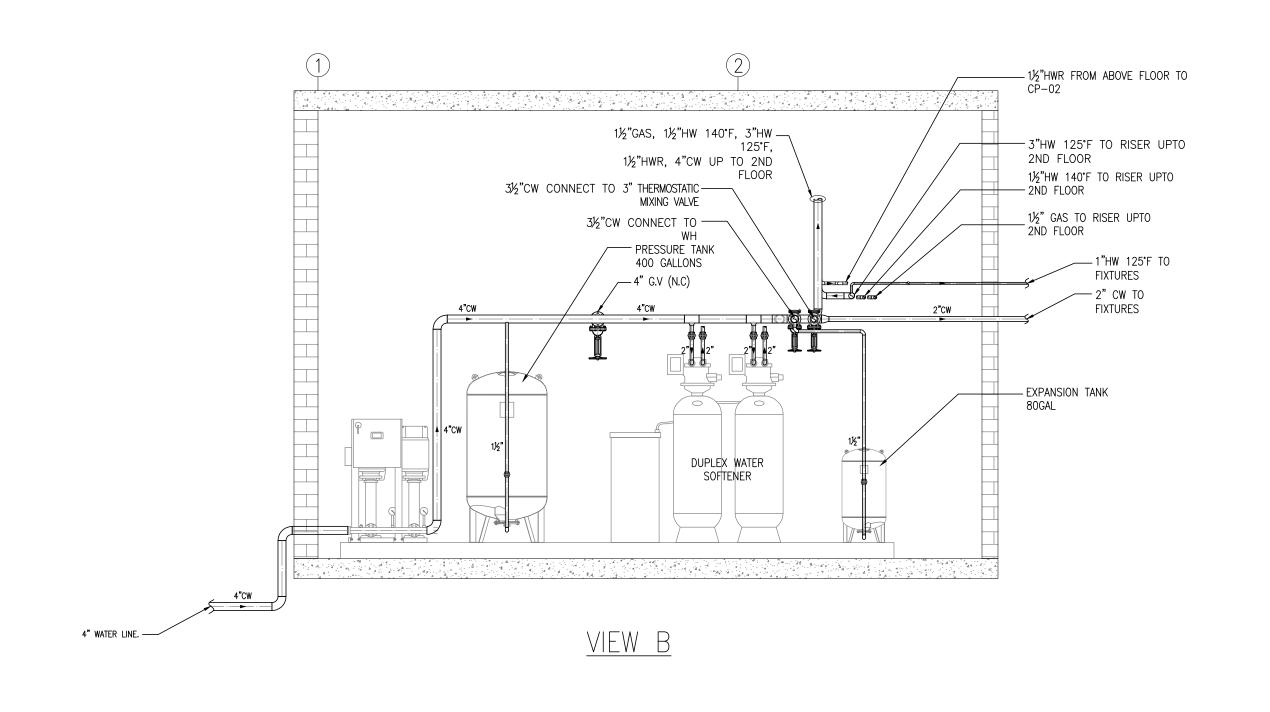
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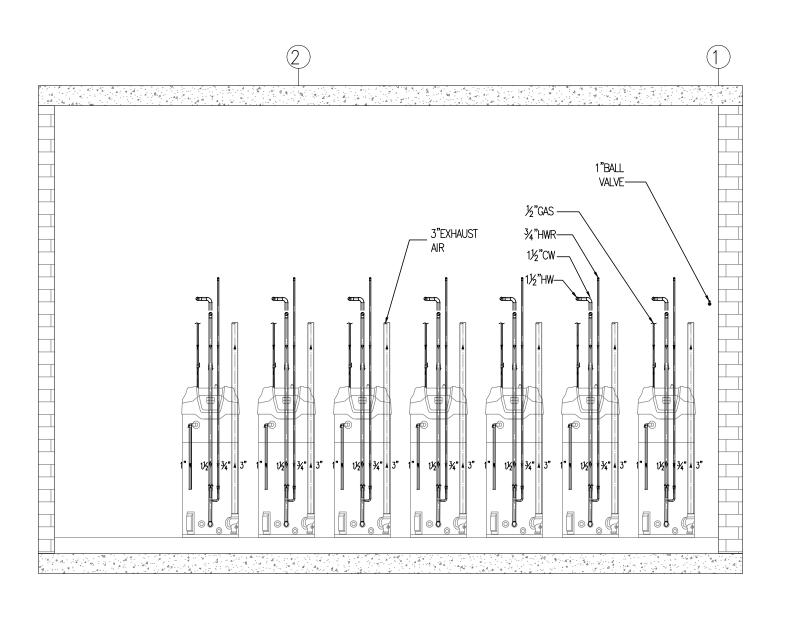
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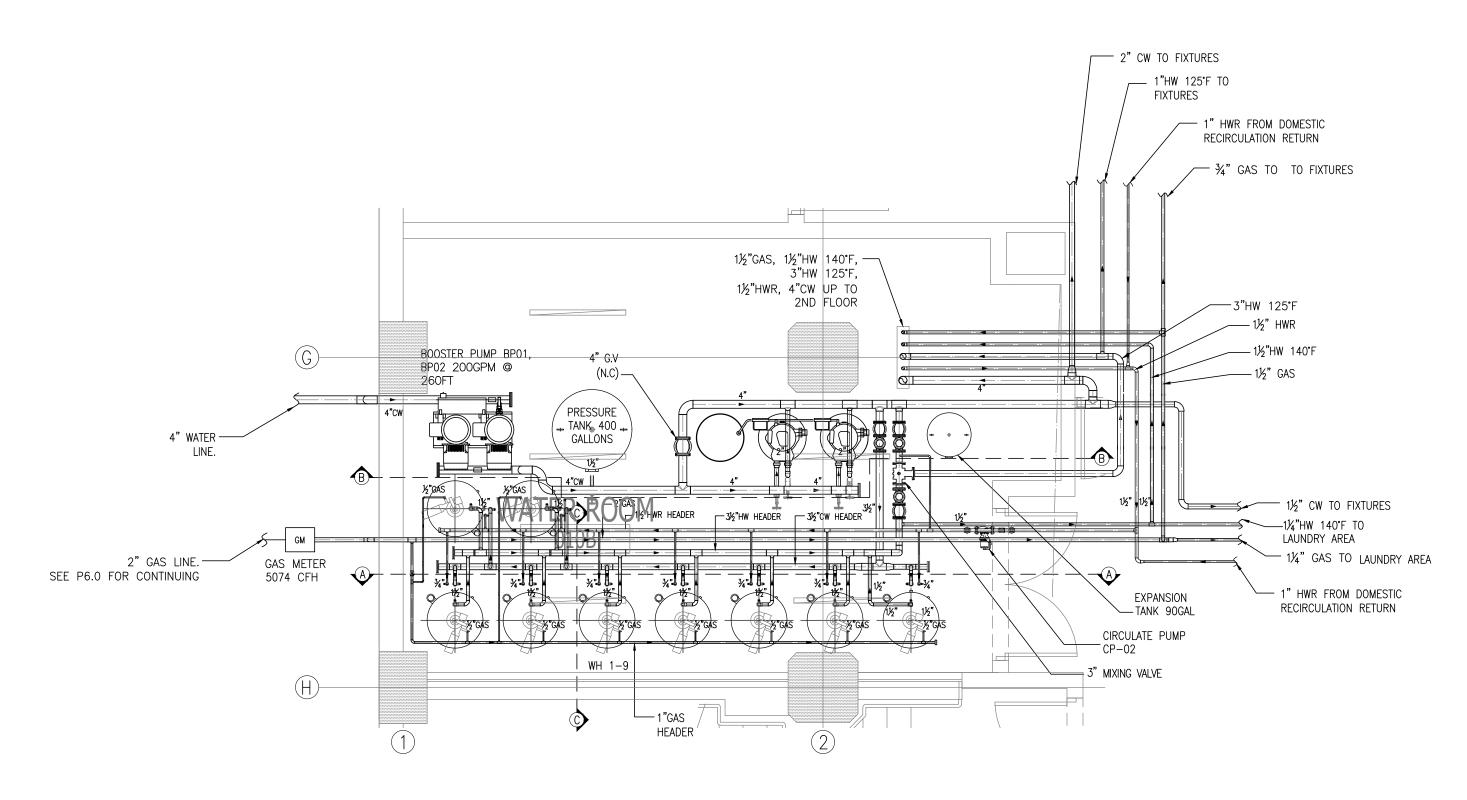
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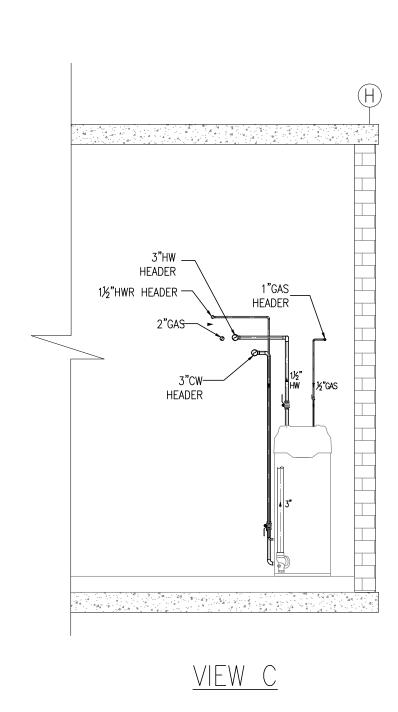
ENLARGED KITCHEN PLAN





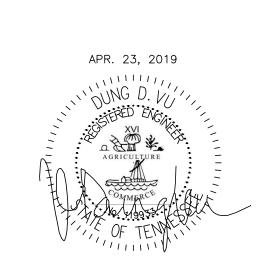
<u>VIEW A</u>





<u>Plan view</u>





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63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

PROJECT NO.: 16 006

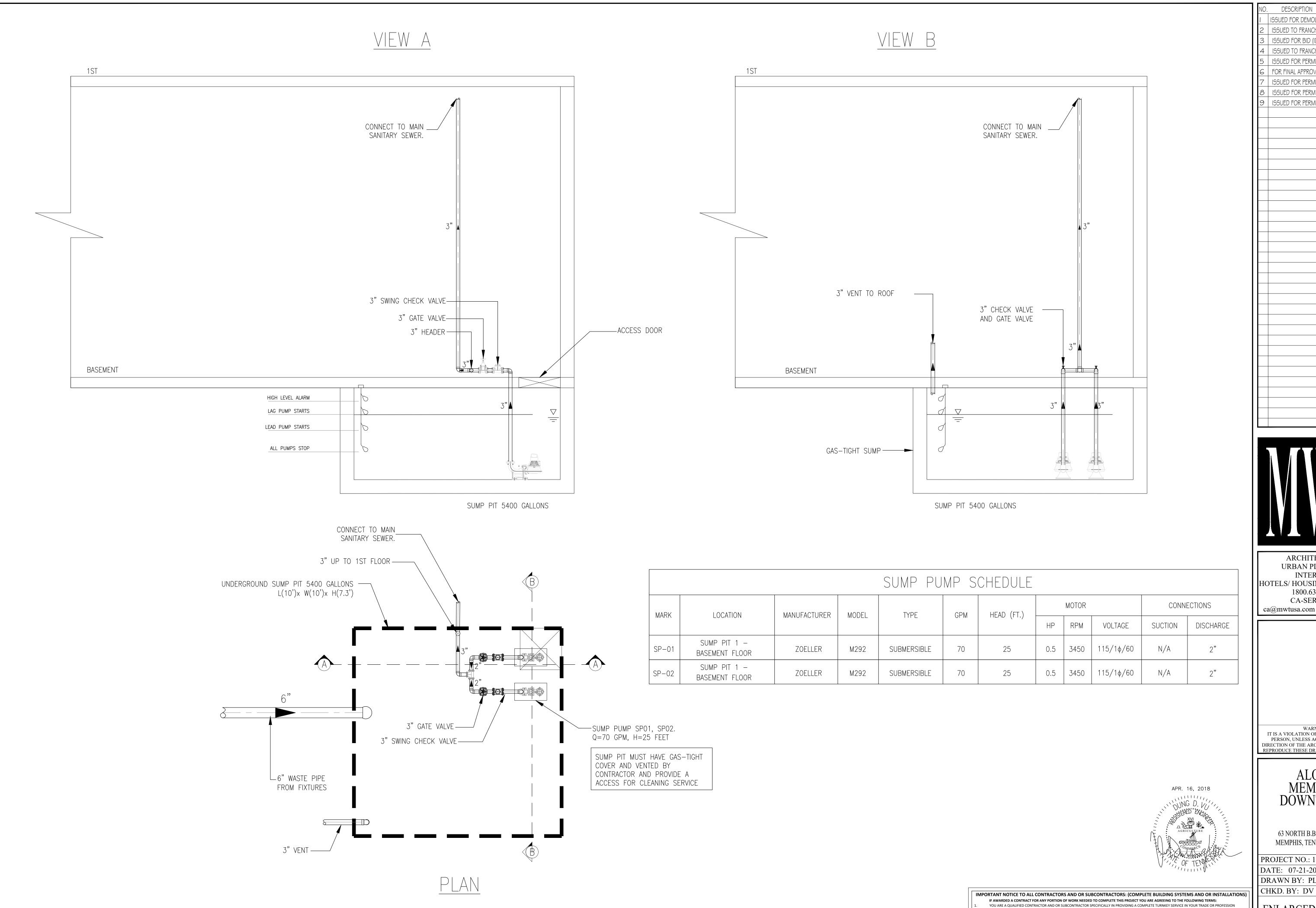
DATE: 07-21-2017

DRAWN BY: PL

CHKD. BY: DV
ENLARGED WATER

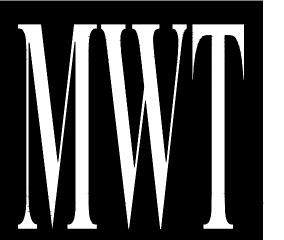
HEATER ROOM

SHEET P8



1 ENLARGED SUMP PIT - BASEMENT FLOOR SCALE: 1/2"=1'-0"

DESCRIPTION ISSUED FOR DEMOLITION 06/09/17 ISSUED TO FRANCHISE 06/09/17 ISSUED FOR BID (ID ONLY) 07/21/17 4 ISSUED TO FRANCHISE ISSUED FOR PERMIT 6 FOR FINAL APPROVAL 7 ISSUED FOR PERMIT 8 ISSUED FOR PERMIT 9 ISSUED FOR PERMIT



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63 NORTH B.B. KING BLVD. MEMPHIS, TENNESSEE 38103

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DRAWN BY: PL

ENLARGED SUMP PIT BASEMENT FLOOR

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