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 JANUARY 01, 2009, AMERICAN WITH DISABILITIES ACT (ADA)
THE FEDERAL MINIMUM ENERGY POLICY AND CONSERVATION ACT OF 2005 (EPACT)

SUBMITTALS
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 BE CPVC AND PEX. USING CPVC FOR MAIN DISTRIBUTION PIPE, PEX FOR GUEST ROOM WATER DISTRIBUTION. USING COPPER PIPE ONLY WHERE REQUIRED. NO JOINTS OR CONNECTION SHALL BE MADEIN 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 DESIGN IS 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
WRENCH-CHANGED FOR USE WITH EACH 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 EXCEED THE QUALITY OF THE FOLLOWING:

MANUFACTURER & MODEL NO.

PIPE RING HANGER SIDE BEAM CLAMP GRINNEL 202

TRAPEZE HANGERS VERTICAL RISER GRINNEL 261

HANGER RODS SHALL CONFORM TO THE FOLLOWING:
PIPE SIZE:
1/2 " TO 2"

2 1/2 " TO 3 1/2 "

PIPE RING HANGER GRINNEL 107R
GRINNEL 202

SUPERSTRUT A1200
GRINNEL 261

THE FOLLOWING:
ROD DIAMETER:
3/8 "

1/2 "

4" TO 5" 5/8 "
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. 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

INSULATE ALL METAL DOMESTIC COLD WATER PIPES AND CONDENSATE DRAIN PIPES WITH

CLOSED—CELL ELASTOMERIC MATERIAL.

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. PROMPTLY REMOVE ALL EXCESS EXCAVATED MATERIAL FROM THE SITE.

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:

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

AIR CHAMBERS SHALL BE SIZED AND INSTALLED AS PER SECTION 604.9 OF 2015 INTERNATIONAL 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".

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.

TESTING:

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.

WATER 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.

SYMBOLS A	ND LEGEND		
SYMBOLS	ABBREV.	DESCRIPTION	MATERIAL
	WASTE	SOIL OR WASTE	40 P.V.C. WITH SOLVENT WELD CONNECTIONS, UNLESS
	ST	STORM DRAIN	OTHERWISE NOTED ON THE DRAWING
	V	VENT	
	HWR	HOT WATER RETURN	CPVC FOR MAIN DISTRIBUTION PIPE,
	CW	COLD WATER	PEX FOR GUEST ROOM WATER DISTRIBUTION
	HW	HOT WATER	
as as as	GAS	GAS LINE	BLACK STEEL PIPE, PLASTIC COATED
	FD	FLOOR DRAIN	EQUALING OR EXCEEDING THE QUALITY OF J.R. SMITH FIGURE 2010-A, 2" SIZE, WITH 5" DIAMETER STRAINER
	FS	FLOOR SINK	EQUALING OR EXCEEDING THE QUALITY OF J.R. SMITH FIGURE 3140
P	FCO	FLOOR CLEAN OUT	
ቡ	wco	WALL CLEAN OUT	
ନ	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
7	C.V	CHECK VALVE	IN GENERAL NOTES
×		GAS SHUT-OFF VALVE	
8		PRESSURE REGULATOR VALVE	
₩		THERMOSTATIC MIXING VALVE	a to a second of the second of
及		BALANCING VALVE	SET TO 1 GPM

	BACKFLOW	PREVENTION TYPES	
NO.	THE TYPE OF PROTECTION	ITEMS/ EQUIPMENT (SIZE)	
1	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	MAIN WATER LINE (3")	
2	PRESSURE VACUUM BREAKER ASSEMBLY (PVB)	IRRIGATION SYSTEM (1")	
3	DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)	FIRE PROTECTION (6")	
4	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	ICE MACHINE (1/2")	
5	DOUBLE CHECK VALVE ASSEMLY (DCVA)	COFFEE MACHINE (½"), REF (½"), JUICE DISPENSER (½")	

NOTE:

CROSS-LINKED POLYETHYLENE (PEX) PIPE (RED AND BLUE) IS OPTIONAL FOR THE GUEST ROOM, CPVC PIPE FOR CORRIDOR MAIN WATER LINE

J C E R

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER	
MORPHEUS GROUP	
404 NW HALL OF FAME	DRIV
LAKE CITY, FL 32055	

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE
GMUER ENGINEERING, LLC
2603 NW 13TH ST BOX 314

ARCHITECT OF RECORD

GAINESVILLE, FL 32609

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350
F: 407.232.6000

WWW.RABITS-ARCHITECT.COM

ASE ENGINEERING SERVICES, INC.
10244 E COLONIAL DR, SUITE202
ORLANDO, FLORIDA 32817
P: 407.677.5565
F: 407.730.2999
WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD®

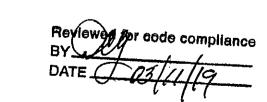
REVISI	ONS	
		,
PROJE	CT NAME	-

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING NOTES AND LEGEND

CONTRACTOR COPY



	SEAL+SIGNATURE
[No. 83005 STATE OF OR 107

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

NUMBER

Page							PLUI	MBING F	IXTURE	SCHEDULE (THE PLUMBING FIXTURES SHALL BE VERIFIED BY FRANCHISE/OWNER PRIOR TO PURCHASING OR INSTALLATION)
Manufactors		DESCRIPTION		SIZE			1		I	
Page	BFP-1		WATTS 909-0SY							PROVIDE BACKFLOW DEVICE INSIDE BUILDING ONLY IF CIVIL PLANS DO NOT INDICATE A BACKFLOW DEVICE AT CONNECTION POINT. INSTALL PER
Part	BFP-2	BACKFLOW PREVENTER						1/2"		PROVIDE WITH 1/4 TURN BALLVALVE AND BRONZE STRAINER. PROVIDE AT ICE MAKERS AND ANY BEVERAGE STATIONS IF UNIT IS NOT SUPPLIED
Page	BT-1	BATHTUB	"PRINCETON RECESS BATH" 2391.202.020 (R) OR	·	1-1/2"	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH SHOWER HEAD KOHLER K-10284-CP "FORTE" MULTIFUNCTION SHOWER HEAD 2.5 GPM. PROVIDE AMERICAN STANDARD 1545.170.002 BATHTUB DRAIN, LIFT AND TURN WASTE, VERIFY RIGHT/LEFT CONFIGURATION WITH ARCHITECTURAL PLANS.(SURROUND AND
Part	BT-2		AMERICAN STANDARD	5½"x36"x21"	1-1/2"	2"	1-1/2"	1/2"	1/2"	ACUMASSAGE JETS — LIFETIME WARRANTY. PROVIDE WITH SHOWER HEAD KOHLER K—10284—CP "FORTE" MULTIFUNCTION SHOWER HEAD 2.5 GPM. PROVIDE AMERICAN STANDARD 1545.170.002 BATHTUB DRAIN, LIFT AND TURN WASTE, VERIFY RIGHT/LEFT CONFIGURATION WITH ARCHITECTURAL PLANS.(SURROUND AND
Conference Con	BT3		"PRINCETON RECESS BATH" 2391.202.020 (R)	60"x30"x14"	1-1/2"	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH "FORTE" MULTIFUNCTION HAND HELD SHOWER HEAD K-10286-CP 2.5 GPM, SUPPLY ELBOW K-9514-CP, 60" METAL SHOWER HOSE K-355-CP. PROVIDE AMERICAN STANDARD 1545.170.002 CHROME BATHTUB DRAIN, VERIFY RIGHT/LEFT CONFIGURATION WITH
Part	EW-1	EYE WASH(WALL MOUNTED)	· · · · · · · · · · · · · · · · · · ·	11"ф	1-1/2"	2"	1-1/2"	1/2"		
Part	SH-1	SHOWER		36"x60"	2"	2"	1-1/2"	1/2"	1/2"	PROVIDE W/KOHLER K-T15621-X4-CP SHOWER VALVE CONFORMS TO ASSE 1016 WITH K-304-KS VALVE "RITE-TEMP", SHOWER HEAD "FORTE" MULTIFUNCTION HAND HELD SHOWER HEAD 2.5 GPM "K-10286-G", SUPPLY ELBOW "K-9514-G", 60" METAL SHOWER HOSE "K-355-G", SHOWER DRAIN K-9132. VERIFY RIGHT/ LEFT CONFIGURATION WITH ARCHITECTURAL PLANS. (SURROUND AND WATER ROOF MEMBRANES BY
Marie France Control	SH-2	t .		31"x60"	2"	2"	1-1/2"	1/2"	1/2"	CAST MARBLE ROLL—IN SHOWER BASE WITH INTEGRAL FIBERGLASS FLANGES. PROVIDE WITH SHOWER VALVE SYMMONS CD0142-05-RHL-L/ HDHSB-TRM, "TEMPTROL" PRESSURE BALANCE MIXING VALVE & DIVERTER VALVE "86-1X" BODY CONFORMS TO ASSE 1016 & "4-458E-BODY", SHOWER HEAD KOHLER "FORTE" MULTIFUNCTION "K-10284-CP" 2.5 GPM, HANDHELD SHOWER HEAD K-10286-CP, SUPPLY ELBOW K-9514-CP, 60" METAL SHOWER HOSE K-355-CP, SHOWER DRAIN "K-9132" CHROME PLATED STRAINER. VERIFY RIGHT/ LEFT
Control Cont	L-1		"LUCERNE"	18 1/4"x	×	2"	1-1/2"	1/2"	1/2"	1.5 GPM, PROVIDE WITH PULL UP WASTE ASSEMBLY. 17 GA. CHROME P-TRAP W/C.O. ANGLE STOPS AND SUPPLIES. SET FLOWRATE OF .25
Conf. of Set 1999 Conf	L-2			17-1/4"x 4-7/8"	x 1-1/2"		1-1/2"	1/2"	1/2"	.25 GPM OR .5 GPM @ 80 PSI
Column Fig. 10 Column	L-3			14"x	×	2"	1-1/2"	1/2"	1/2"	FOR WHEELCHAIR ACCESS, 17 GA P-TRAP W/CO. ANGLE STOPS AND SUPPLIES PROVIDE ADA INSTALLATION KIT. INSTALL ACCESSIBLE FAUCET
Procession Pro	L4			14"x	x	2"	1-1/2"	1/2"	1/2"	K-15198-CP FAUCET, LOW FLOW AERATOR 1.0 GPM "1067773", PROVIDE WITH PULL UP WASTE ASSEMBLY. 17 GA. CHROME P-TRAP W/CO. ANGLE STOPS AND SUPPLIES. SET FLOW RATE OF .25 GPM OR .5 GPM @ 80 PSI. LAVATORY DRAIN WITH OVERFLOW AND NON-REMOVABLE
	L5		STERLING B155-2	15"x 5" 1/2"	x ·	2"	1-1/2"	1/2"	1/2"	
Property of the property of	L-6		KOHLER K-3336-NA	15" 3/8"x		2"	1-1/2"	1/2"	1/2"	"UNDERTONE UNDERCOUNTER SINK", STAINLESS STEEL. SUPPLY WITH KOHLER "CORALAIS" CHROME FAUCET K-15275-4-CP 2.2 GPM, STAINLESS STEEL TRAINER KOHLER K-8801-VS
GLGS MAIN	L-7	(ADA GUEST ROOM)		12"x 4-5/8"	x 1-1/2"	2"	1-1/2"	1/2"	1/2"	FLOWRATE OF .25 GPM OR .5 GPM @ 80 PSI
9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	L-8	1 -	KOHLER "UNDERTONE" K-3336-NA	15" 3/8"x	x	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH PULL UP WASTE ASSEMBLY. 17 GA. CHROME P-TRAP W/C.O. ANGLE STOPS AND SUPPLIES. SET FLOWRATE OF .25 GPM OR
CAMBER SOM BOST PROME PROPERTY OF STATES AND	SS-1	SERVICE SINK		22"x18"x12"D	2"	2"		1/2"	1/2"	BACK FOR FAUCET, W/(AMERICAN STANDARD 8350.235.002 FAUCET) CHROME EXPOSED YOKE WALL MOUNT UTILITY FAUCET. PROVIDE WITH
Part Color	LS-1		KOHLER K-12793-0	28"x22"x12"D	1-1/2"	1-1/2"		1/2"	1/2"	WALL HUNG SINGLE COMPARTMENT SINK, SINGLE CENTER HOLE, DRILLED BACK LEDGE. W/KOHLER K-13774-CP FAUCET. PROVIDE K-1814-P WALL BRACKETS, CHROME FINISHED 5" GOOSENECK FAUCET. PROVIDE KOHLER K-9118-CP STRAINER, K-13715-C-CP KNEE CONTROL FITTING
Part Color	WC-1	(TYPICAL GUEST ROOM	KOHLER K-3998-0	18"x		4"	2"	1/2"		
## Care Controllar 14-7/12 1-72	WC-2	(ADA GUEST ROOM	K-3999-0	18"x 31-1/4"		4"	2"	1/2"		WHITE VITREOUS CHINA TANK TYPE WATER CLOSET. 4.87 LPF/1.28GPF. 2" BALL PASS, FLAT TANK COVER, ELONGATED BOWL, W/TRADITIONAL SOFT CLOSE WHITE CLOSED FRONT SEAT K-4774-0
CHARLE REST FROM CHARLE REST FROM CHARLE REST CHAR	WC-3		CT708 (WHITE)	14-3/8"x 17-1/2"		4"	2"	1"		
CAUST ROOM NTCHERTED ELISIS 17-1/2" 1-1/	U-1		KOHLER K-4989-T-0	12-1/2"x 14-1/4"		2"		3/4"		
1-1/2 2	S-1	=:::::::::	ELKAY ELU2115	17-1/4"x	1-1/2"	1-1/2"		1/2"	1/2"	LEVER CONTROL FAUCET. PROVIDE BADGE 1 DISPOSAL UNIT, 17 GAUGE P-TRAP W/CO. ANGLE STOPS AND SUPPLIES. PROVIDE DISHWASHER
CLUMONY ARED COMPANDED	S-2		LRAD2521		1-1/2"	2"		1/2"	1/2"	SINGLE LEVER CONTROL FAUCET. PROVIDE BADGE 1 DISPOSAL UNIT, 17 GAUGE P-TRAP W/CO. ANGLE STOPS AND SUPPLIES. PROVIDE
THREE COMPARTING SMIC PROMINED STATEMENT SMIC PROMINED STATEMENT SMICH	S-3				1-1/2"	2"	1-1/2"	3/4"	3/4"	WHITE MOP SERVICE BASIN — 1 PIECE, REMOVABLE STAINLESS STEEL STRAINER. PROVIDE WITH DELTA FAUCET MODEL 28T9, STAINLESS STEEL HOLDER MUSTEE 65.700, STAINLESS STEEL HANGER MUSTEE 63.600, STAINLESS STEEL GUARD MUSTEE 67.2424
See Columbian Control See South Pearly Control See	S-4				1-1/2"	2"	1-1/2"	1/2"	1/2"	
Secondary Seco	S-5	SINK (PRE RINSE SINK)			1-1/2"		1-1/2"	1/2"	1/2"	PROVIDE DWV COPPER WASTE PIPING TO FLOOR SINK, PROVIDE FAUCET MODEL "FISHER 89745". PROVIDE MIN. 1" AIR GAP PER INDIRECT WASTE CONNECTION. SEE EQUIPMENT SCHEDULE FOR DETAIL
## RC COLURA OUT	S-6	KITCHEN HAND SINK			1-1/2"		1-1/2"	1/2"	1/2"	PROVIDE P-TRAP W/CO. ANGLE STOPS AND SUPPLIES, PROVIDE FAUCET MODEL K-59. SEE EQUIPMENT SCHEDULE FOR DETAIL
FCO	WCR	WATER COOLER				2"	1-1/2"	1/2"		
### ### ##############################	FCO	FLOOR CLEAN OUT								
FD-10 RESTROOM/ BUPLOVER RESTROOM JAY R SMITH 2005	wco		JAY R SMITH 4402							STAINLESS STEEL ACCESS COVER, STRAIGHT THREAD LEAD SEAL PLUG, DUCO CAST IRON FERRULE
PLANS PLAN	FD-1	(RESTROOM/ EMPLOYEE RESTROOM)	JAY R SMITH 2005		PLANS					ROUND NICKEL BRONZE ADJUSTABLE STRAINER IN CONCRETE FLOORS ALL OTHER AREAS 6" SQUARE, TOPS.
FINAL PLANS TO SEE		(RESTROOM/ EMPLOYEE RESTROOM)			PLANS					FD-1g IN KITCHEN AT COOLER/ FREEZE & DISPLAY PAN.
FINAL PLANS IN PLONE SINK DAY R SMITH 1015 PLANS DOME STRAINER OR SEDIMENT BUCKET. CAST IRON TOP, ABS PLUG WITH GASKET SEAL. SIZE TO MATCH WASTE PIPING MY MIXING VALVE (THERMOSTATIC) SYMMONS 5-1000-102-PRV OUTLET: 2" PROVIDE (2) THERMOSTATIC CONTROLLERS, REMOVABLE CARTRIDGE W/ STRAINER, PRV, (2) PRESSURE GAUGES, (2) BALL VALVES, DIAL THERMOMETER W/ 3" FACE AND RANGE OF 20-2406F. STANDARD ROUGH BRONZE AND COPPER FINISH. FACTORY ASSEMBLED AND TESTED LI LINT INTERCEPTOR JAY R. SMITH 8910 SERIES RD ROOF DRAIN JAY R SMITH 1015 SEE PLANS DUCC CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, POLYETHYLENE DOME, COMBINED FLASHING CLAMP AND GRAVEL STOP, REVERSIBLE COLLAR RD ROOF DRAIN (OVERFLOW) JAY R SMITH 1070 SEE PLANS PLAN	FD-2	(POOL EQUIPMENT/ LAUNDRY)			PLANS					
MV MIXING VALVE (THERMOSTATIC) SYMMONS SYMMONS (INLET:1- 1/2" SIZE					PLANS					DOME STRAINER OR SEDIMENT BUCKET.
THERMOSTATIC) 5-1000-102-PRV OUTLET: 2" THERMOSTATIC) 5-1000-102-PRV OUTLET: 2" THERMOSTATIC) THERMOSTATIC T			4231L-NB	-		SIZE				PROVIDE (2) THERMOSTATIC CONTROLLERS, REMOVABLE CARTRIDGE W/ STRAINER, PRV, (2) PRESSURE GAUGES, (2) BALL VALVES, DIAL
LINT INTERCEPTOR SERIES		(THERMOSTATIC)	5-1000-102-PRV	OUTLET: 2"		SEE				THERMOMETER W/ 3" FACE AND RANGE OF 20-240oF. STANDARD ROUGH BRONZE AND COPPER FINISH. FACTORY ASSEMBLED AND TESTED
RD ROUF DRAIN JAY R SMITH 1015			SERIES			PLANS SEE				DUCO CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, POLYETHYLENE DOME, COMBINED FLASHING CLAMP AND GRAVEL STOP,
WB-1 WASHER BOX SIOUX CHIEF 696-2313MF THERMOSTATIC MIXING VALVE ZURN #ZW1070XL THERMOSTATIC MIXING VALVE SIOUX CHIEF 696-2313MF THERMOSTATIC MIXING VALVE ZURN #ZW1070XL THERMOSTATIC MIXING VALVE SIOUX CHIEF 696-2313MF THERMOSTATIC MIXING VALVE THERMOSTATIC MIXING VALVE ZURN #ZW1070XL THERMOSTATIC MIXING VALVE SIOUX CHIEF 696-2313MF THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY: ZURN #ZW1070XL ASSE ® LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM. SET UP HOT WATER DELIVERED FOR PUBLIC LAVATORIES MAXIMUM TEMPERATURE OF 110°F CR. CIPC PLIMP HOT WATER BELL & GOSSET BELL & GOSSET HOT WATER CIPCULATION BLIVE ZVA HORSE AND GRAVEL STOP, PVC STANDPIPE TYPE WATER DAM THERMOSTATIC MIXING VALVE WATER DELIVERED FOR PUBLIC LAVATORIES MAXIMUM TEMPERATURE OF 110°F						PLANS SEE				REVERSIBLE COLLAR OVERFLOW STANDPIPE TYPE ROOF DRAIN, DUCO CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, POLYETHYLENE DOME, COMBINED
THERMOSTATIC MIXING VALVE ZURN #ZW1070XL THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY: ZURN #ZW1070XL ASSE ® LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM. SET UP HOT WATER DELIVERED FOR PUBLIC LAVATORIES MAXIMUM TEMPERATURE OF 110°F			SIOUX CHIEF			PLANS				FLASHING CLAMP AND GRAVEL STOP, PVC STANDPIPE TYPE WATER DAM
CP CIPC PLIMP HOT WATER BELL & GOSSET - LIOT WATER CIPCULATION PLUE 7.74 - HD PELL & GOSSET MODEL 644								*		THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY: ZURN #ZW1070XL ASSE (R) LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5
	СР		BELL & GOSSET							

GENERAL SCHEDULE NOTES

1. FIXTURE INDICATED AS ADA MUST COMPLY WITH ICC/ANSI A117.1. VERIFY EXACT NUMBERS, FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS WITH ARCHITECTURAL 2. ALL HW PIPING AND DRAIN LINES BENEATH ASA COMPLIANT LAVATORIES MUST BE INSULATED TO PREVENT BURNS. REF, ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL. VINYL INSULATION-TRUEBRO OR EQUAL

3. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS (PPP INC., OR EQUAL). PROVIDE ACCESS PANELS AS REQUIRED

4. THE GUEST BATH SHOWER HEAD IS LOCATED AT 6'-10" ABOVE THE FINISHED FLOOR 5. PROVIDE A FLEXIBLE AND A FIXED SHOWER HEAD POSITIONED AT 6'-10" ABOVE THE FINISHED FLOOR IN ACCESSIBLE GUEST BATHS. 6. SHOWER VALVES WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1016

EQUIVALENT MANUFACTURES

ENAMELED CAST IRON VITREOUS CHINA STAINLESS STEEL SINKS SERVICE SINKS FAUCETS TUB/SHOWER VALVES
TOILET SEATS
ROOF DRAINS, FLOOR SINKS, FLOOR DRAINS AND CLEANOUT
BACKFLOW PREVNETION DEVICES, PRESSURE REDUCING VALVES
TRAP PRIMERS AND SHOCK ABSORBERS

KOHLER KOHLER KOHLER MUSTEE & SONS, FIAT, BRADLEY MOEN, KOHLER KOHLER SYMMONS, MOEN CHURCH, OLSONITE, MEMIS, KOHLER WATTS, ZURN, WADE, JOSAM WATTS, WILKENS, FEBCO PPP, SIOUX, SMITH



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350 F: 407.232.6000

STRUCTURAL ENGINEER

MEP ENGINEER

WWW.RABITS-ARCHITECT.COM

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD®

REVISIONS	
	·
PROJECT NAME	

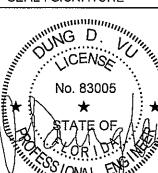
COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING FIXTURE SCHEDULE

CONTRACTOR COPY

SEAL+SIGNATURE



PROJECT NUMBER 17.282 DRAWING NUMBER

٧٥.	FIXTURE	×	cwsfu	=	TOTAL
PRI\	/ATE				
136	WATER CLOSET	x	2.2	=	299.2
136	LAVATORY	x	0.5	=	68
136	BATHTUB/SHOWER	x	1	=	136
PU	IBLIC				
6	WATER CLOSET	x	5	=	30
4	LAVATORY	x	1.5	=	6
1	URINAL	X	5	=	5
5	HAND SINK	х	2.25	=	11.25
1	3-COMP SINK	x	3	=	3
2	MOP SINK	x	3	=	6
1	UTILITY SINK	×	2.25	=	2.25
2	PREP TABLE W/ SINK	×	2.25	=	4.5
1	PRE-RINSE FAUCET	х	2.25	=	2.25
1	DISPOSER	×	1	=	1
1	GUEST WASHER	X	1	_	1
3	COMMERCIAL CLOTHES WASHER	×	3	-	9
13	HOSE BIBB	×	1	=	13
1	COFFEE BREWER	×	1	=	1
7	ICE MAKER	×	1	=	7
1	ESPRESSO MACHINE	x	1	=	1
1	REF.	x	1	=	1
1	HYDRATION STATION	×	0.25	=	0.25
4	EYE WASH	×	2.25	=	9
2	EDF	×	0.25	=	0.5
1	POOL	х	30	=	30

TOTAL DEMAND BASED ON 647.2 FIXTURE UNIT FOR FLUSH TANK = 150 GPM. USE 3" MAIN. LOSS PER 100 FEET: 2 PSI COLD WATER CALCULATION COMPLY WITH 2017 FLORIDA PLUMBING CODE

CAL	CULAT	ION	OF	GAS	FIRED	WATER	HEATER
(AS	PER	MAR	RIO	Π'S	REQUIR	EMENT)	

- A. REQUIRED RECOVERY RATE: 136 X 10 GPH = 1360 GPH AT 100°F RISE (WITH 136 KEY, 10 GPH PER KEY)
- DESIGNED RECOVERY RATE: 6 NOS WATER HEATER X 235 GPH = 1410 GPH AT 100°F RISE (235 GPH 100°F RISE / EACH WATER HEATER)
- AS PER FRANCHISE REQUIREMENT, USING "N+1" DESIGN APPROACH FOR BACKUP
- SELECT 7 WATER HEATER 199 000 BTUH/ EACH

 B. REQUIRED WATER HEATER STORAGE: 136 X 4 GALLONS = 544
 GALLONS
 (WITH 4 GALLONS PER KEY)
- DESIGNED WATER HEATER STORAGE: 6 X 100 GALLONS = 600 GALLONS (100 GALLONS / EACH WATER HEATER)
- AS PER FRANCHISE REQUIREMENT, USING "N+1" DESIGN APPROACH FOR BACKUP
- SELECT 7 WATER HEATER 199 000 BTUH/ EACH

NOTE: HOT WATER SUPPLY FIXTURE UNITS IS USED FOR SIZING THE WATER HEATERS ONLY

NO.	FIXTURE	×	cwsfu	-	TOTAL
PRI	/ATE				
136	LAVATORY	x	0.5	=	68
136	BATHTUB/SHOWER	x	1	=	136
PU	BLIC				
4	LAVATORY	x	1.5	=	6
5	HAND SINK	×	2.25	=	11.25
1	GUEST WASHER	X	1	=	1
4	EYE WASH	×	2.25	=	9
1	3-COMP SINK	x	3	=	3
2	MOP SINK	x	3	=	6
1	UTILITY SINK	x	2.25	=	2.25
2	PREP TABLE W/ SINK	x	2.25	=	4.5
1	PRE-RINSE FAUCET	х	2.25	=	2.25
3	COMMERCIAL CLOTHES WASHER	х	3	=	9
1	GLASS WASHER	х	1.4	=	1.4
1	DISH WASHER	×	1.4	=	1.4

POSSIBLE HOT WATER DEMAND BASED ON 261.05 FIXTURE UNIT = 77 GPM.

PROBABLE MAXIMUM DEMAND: 77 GPM x 0.25 =19.25 GPM

HEATING CAPACITY REQUIRED (TO RISE UP COLD WATER 50°F TO 140°F): 870 792 BTUH

AS PER FRANCHISE REQUIREMENT, USING "N+1" DESIGN APPROACH FOR BACKUP

SELECT 7 WATER HEATER 199 000 BTU/EACH (FOR GUESTROOMS,

RESTROOMS, OTHER PUBLIC AREAS...)

USE 8" MAIN SLOPED @1/8" PER FOOT
SANITARY SEWER CALCULATION COMPLY WITH 2017 FLORIDA

101.4.3 Plumbing. The provisions of the Florida Building

aspects of a medical gas system.

Code, Plumbing shall apply to the installation, alteration, repair and replacement of plumbing systems, including

equipment, appliances, fixtures, fittings and appurtenances,

and where connected to a water or sewage system and all

DRAINAGE FIXTURE UNITS (dfu) SUMMARY

FIXTURE

110 WATER CLOSET

110 BATHTUB/SHOWER

WATER CLOSET

LAVATORY

UNIRAL

HAND SINK

MOP SINK

UTILITY SINK

DISPOSER

GUEST WASHER

CLOTHES WASHER

GLASS WASHER

DISH WASHER

FLOOR SINK

FLOOR DRAIN 2"

FLOOR DRAIN 3"

POOL

HYDRATION STATION

PREP TABLE W/ SINK

3-COMP SINK

110 LAVATORY

cwsfu

330

110

220

0.5

1010.5

0.5

SYSTEM PRESSURE CALCULATION

BOOSTER PUMP I	HEAD	
CALCULATION		
	FEET	PSI
STATIC HEAD — BUIDLING HEIGHT (PSI = FEET x 0.431)	70	30.17
FRICTION HEAD — FRICTION LOSS (ESTIMATED AT 10% OF STATIC HEAD)		+3
HIGHEST OUTLET PRESSURE REQUIRED (AVERAGE ESTIMATED VALUE = 40 PSI)		+40
SYSTEM REQUIRED PRESSURE		73.18
MINIMUM SUCTION PRESSURE		-40
SYSTEM BOOST PRESSURE		33.18
PRV LOSSES (ESTIMATED AT 5 PSI)		+5
PUMP HEAD REQUIRED	89	38.18

PUMPING CAPACITY: 150 GPM
(SEE COLD WATER SUPPLY FIXTURE UNITS)

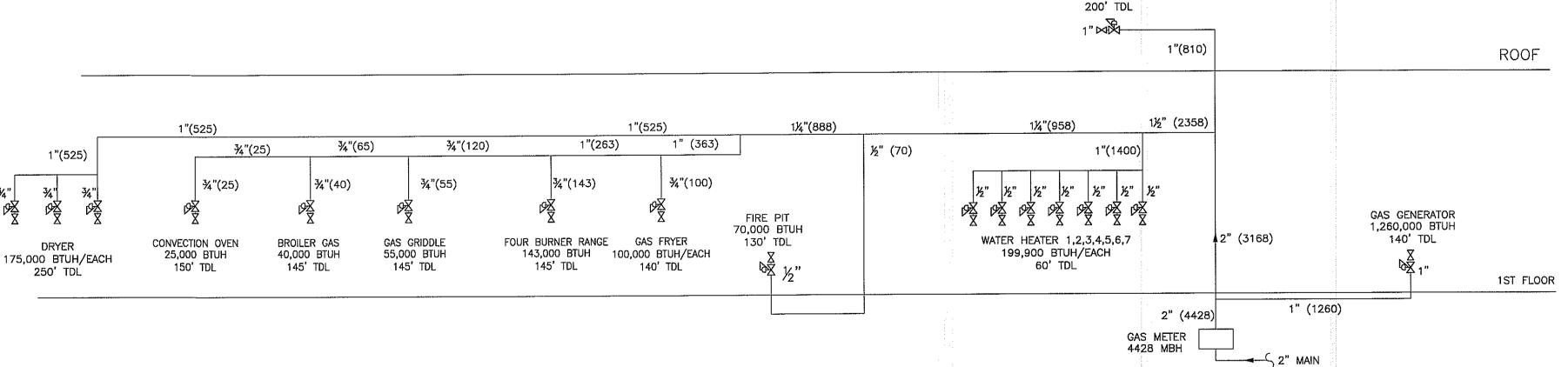
CAPACITY	' SPLIT	
SYSTEM TYPE	%	%
DUPLEX	50	50
	P1 - GPM	P2 - GPN
PUMP CAPACITY (TOTAL CAPACITY x % SPLIT)	80	80

SELECT BOOSTER SYSTEM: ARMSTRONG DUPLEX BOOSTER MODEL 6800G SERIES VMS-1802. SEE BOOSTER PUMP SCHEDULE @ P5.1 SHEET

GAS FIRED WATER HEATER SCHEDULE CAPACITY DELIVERY | RECOVERY | NATURAL | THERMAL | INTAKE/EXHAUST ELEC. | WEIGHT REMARKS TEMP | (GAL/HOUR | GAS INPUT | EFFIENCY | & MODEL (MBH) /EACH) PROVIDE COMPLETE WATER HEATER FOR SEALED 555 140°F 199,9 97% 3" (0'-50') HIGH EFF. 100 A.O SMITH 235 @ VERTICAL DIRECT VENT OPERATION INCLUDING PIPING 100°F. RISE AND MANUFACTURERS TERMINATION KIT DIRECT VENT 4" (51'-120') BTH-199(A) (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS...)

810,000 BTUH

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



GAS SCHEMATIC DIAGRAM (2 PSI)

BASIS OF DESIGN

MAXIMUM DEMAND = 4,428,000 BTUH (4428 MBH)
TOTAL DEVELOPED LENGTH FROM POINT OF DELIVERY TO MOST REMOTE
OUTLET = 250 FT.

NOTE: TDL= TOTAL DEVELOPED LENGTH FROM METER TO MOST APPLIANCES
SET UP INLET PRESSURE: 2.0 PSI
INSTALL PRESSURE REGULATOR AND GAS SHUT OFF VALVE AT EACH
EQUIPMENT AND
AUTOMATIC GAS SHUT OFF VALVE FOR EACH KITCHEN EQUIPMENT ONLY
GAS CALCULATION COMPLY WITH TABLE 402.4(5) SCHEDULE 40
METALLIC PIPE FROM 2017 FLORIDA FUEL GAS CODE.

J C E R Design

JCER DESIGN CONSULTANTS LLC
NEW YORK
325 GOLD STREET, STE 604
BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP
404 NW HALL OF FAME DRIVE
LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350

WWW.RABITS—ARCHITECT.COM
STRUCTURAL ENGINEER

F: 407.232.6000

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

REV	ISIONS			
		•		
		w	 	

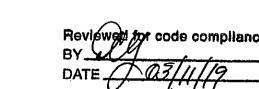
PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING SPEC & DIAGRAM

CONTRACTOR COPY



SEAL+SIGNATURE

SEAL+SIGNATURE

No. 83005

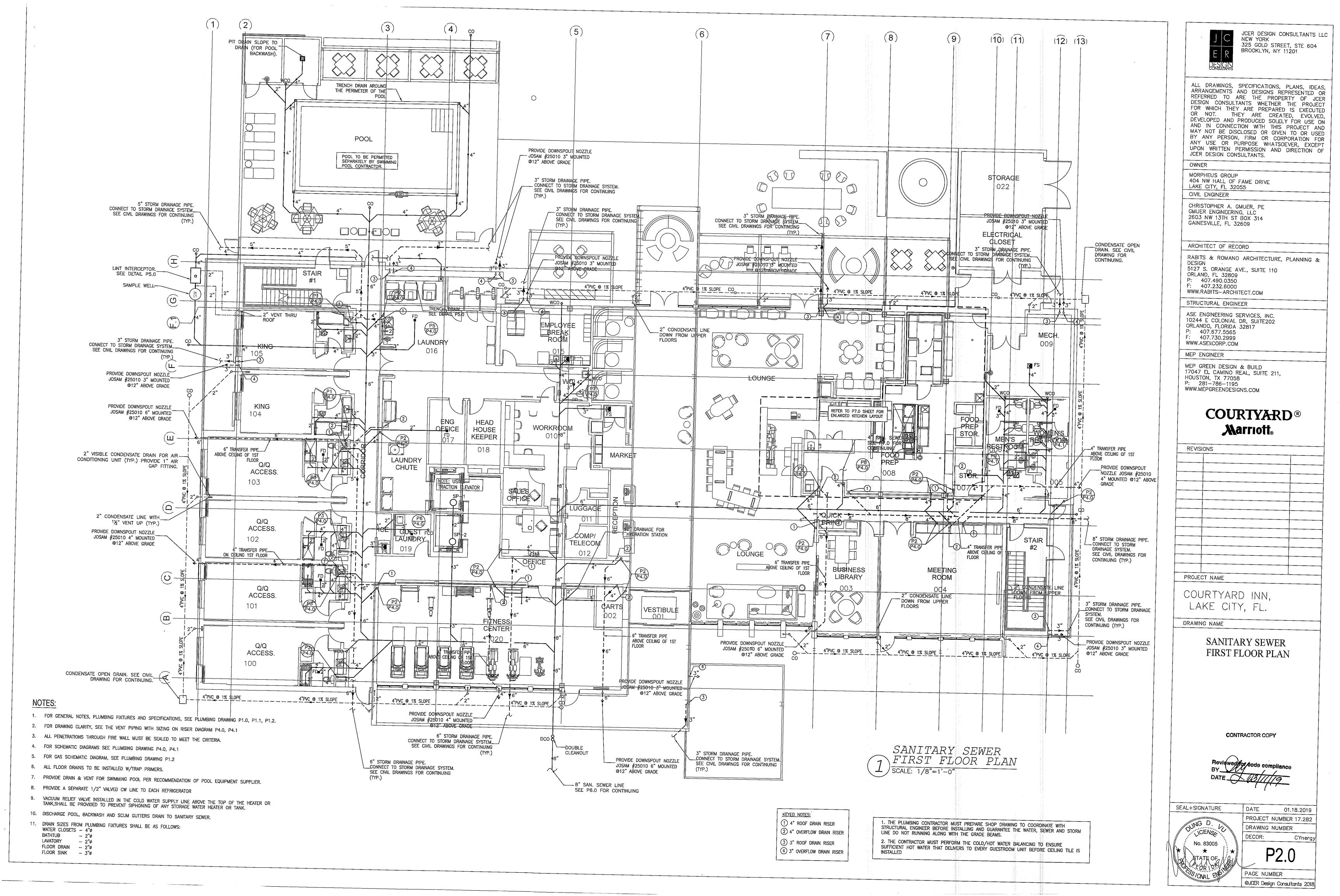
**

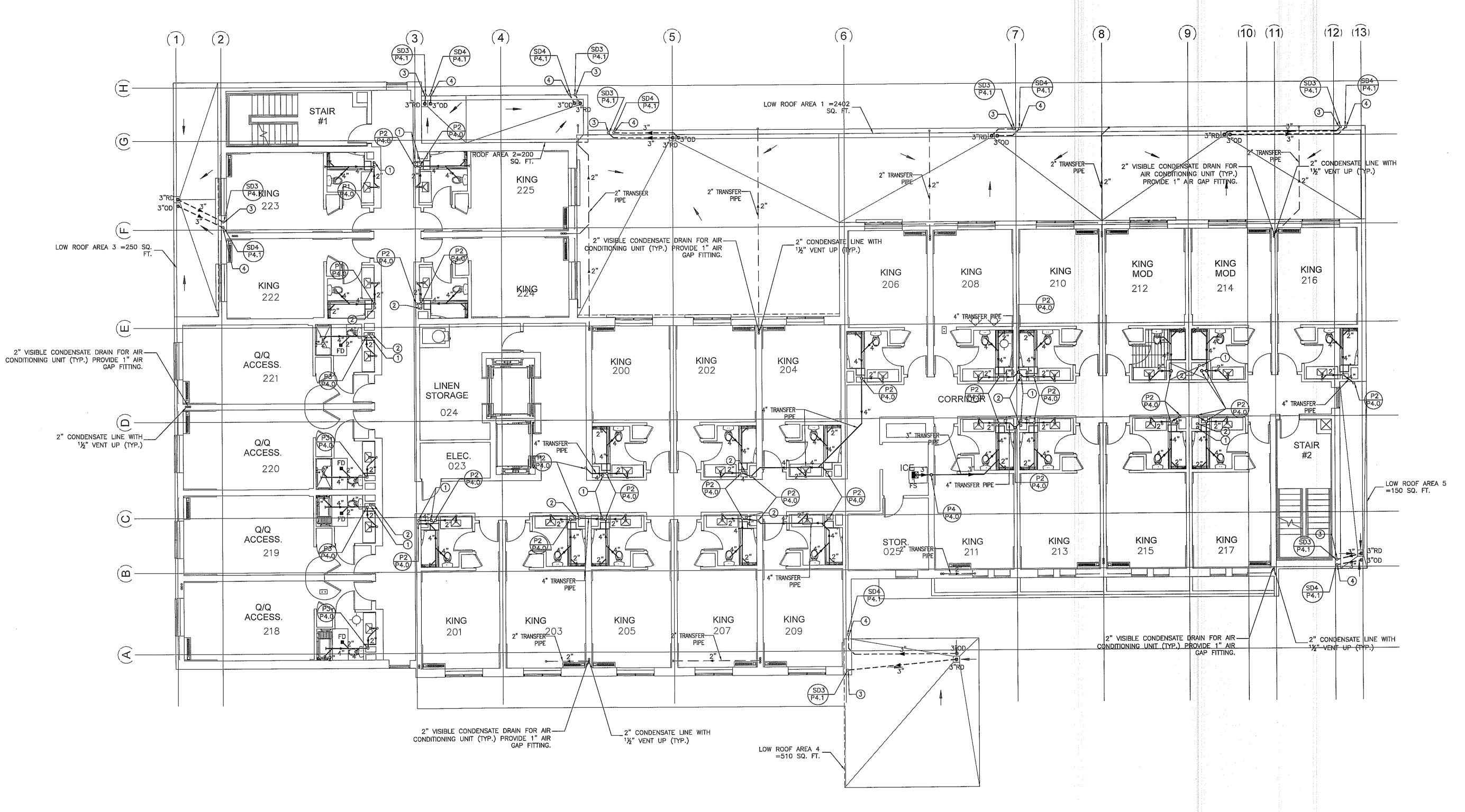
STATE OF

OR I D.

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

P1.2





- 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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. 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.
- 10. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 11. 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

ROOF DRAIN CALCULATION:

	MAIN ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAINS (GPM)	NO. OF R.D	SERVED CAPACITY OF EACH R.D. (GPM)
LOW ROOF AREA 1	2402	124	3	41
LOW ROOF AREA 2	200	11	2	5.5
LOW ROOF AREA 3	250	13	1	13
LOW ROOF AREA 4	510	27	1	27
LOW ROOF AREA 5	150	9	1	9

BASE ON 2017 FLORIDA PLUMBING CODE APPENDIX B AND TABLE

 RAIN FALL IN INCHES PER HOUR: 5" (APPENDIX B) - 3" ROOF DRAIN IS SERVED FOR 55 GPM WITH SLOPE 1% (TABLE 1106.2)

=> THE LARGEST CAPACITY FOR ONE ROOF DRAIN IS 55 GPM WITH

OVER FLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2"

KEYED NOTES: 1 4" ROOF DRAIN RISER (2) 4" OVERFLOW DRAIN RISER (3) 3" ROOF DRAIN RISER 4 3" OVERFLOW DRAIN RISER

SANITARY SEWER SECOND FLOOR PLAN SCALE: 1/8"=1'-0"

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

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

P: 407.490.0350

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

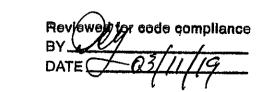
REVIS	IONS		
		1.11	
PRO.1	ECT NAME	 	

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

SANITARY SEWER SECOND FLOOR PLAN

CONTRACTOR COPY



DATE

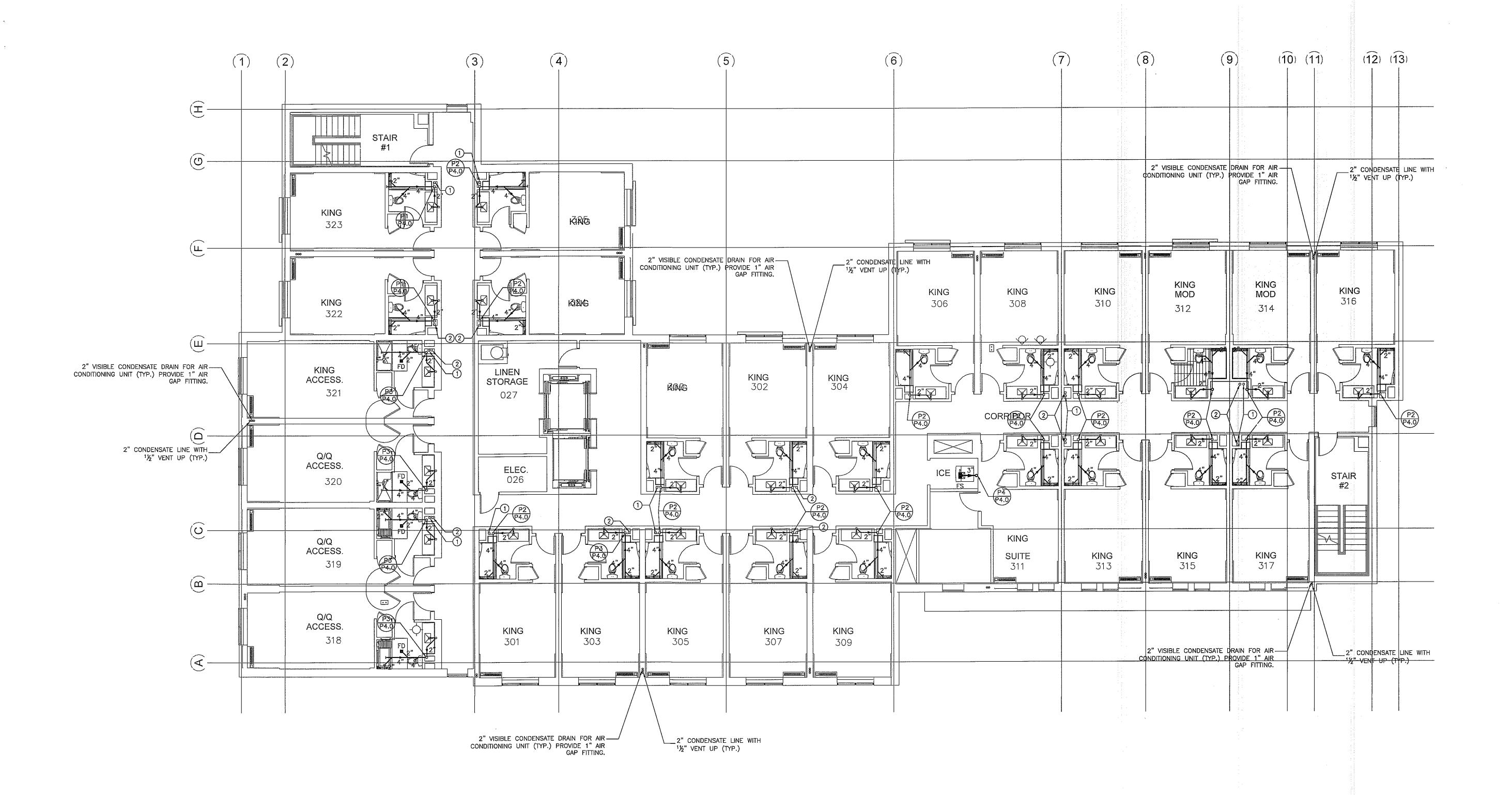
SEAL+SIGNATURE CENSE. STATE OF

DRAWING NUMBER DECOR: CYnergy PAGE NUMBER

PROJECT NUMBER 17.282

©JCER Design Consultants 2018

01.18.2019



SANITARY SEWER
THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. 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.
- 10. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 11. 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

KEYED NOTES:

1) 4" ROOF DRAIN RISER

2 4" OVERFLOW DRAIN RISER

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.



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS,

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

CIVIL ENGINEER

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350

F: 407.232.6000 WWW.RABITS—ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

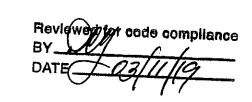
REVISIO	NS	
PRO IFO	CT NAME	

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

SANITARY SEWER THIRD FLOOR PLAN

CONTRACTOR COPY



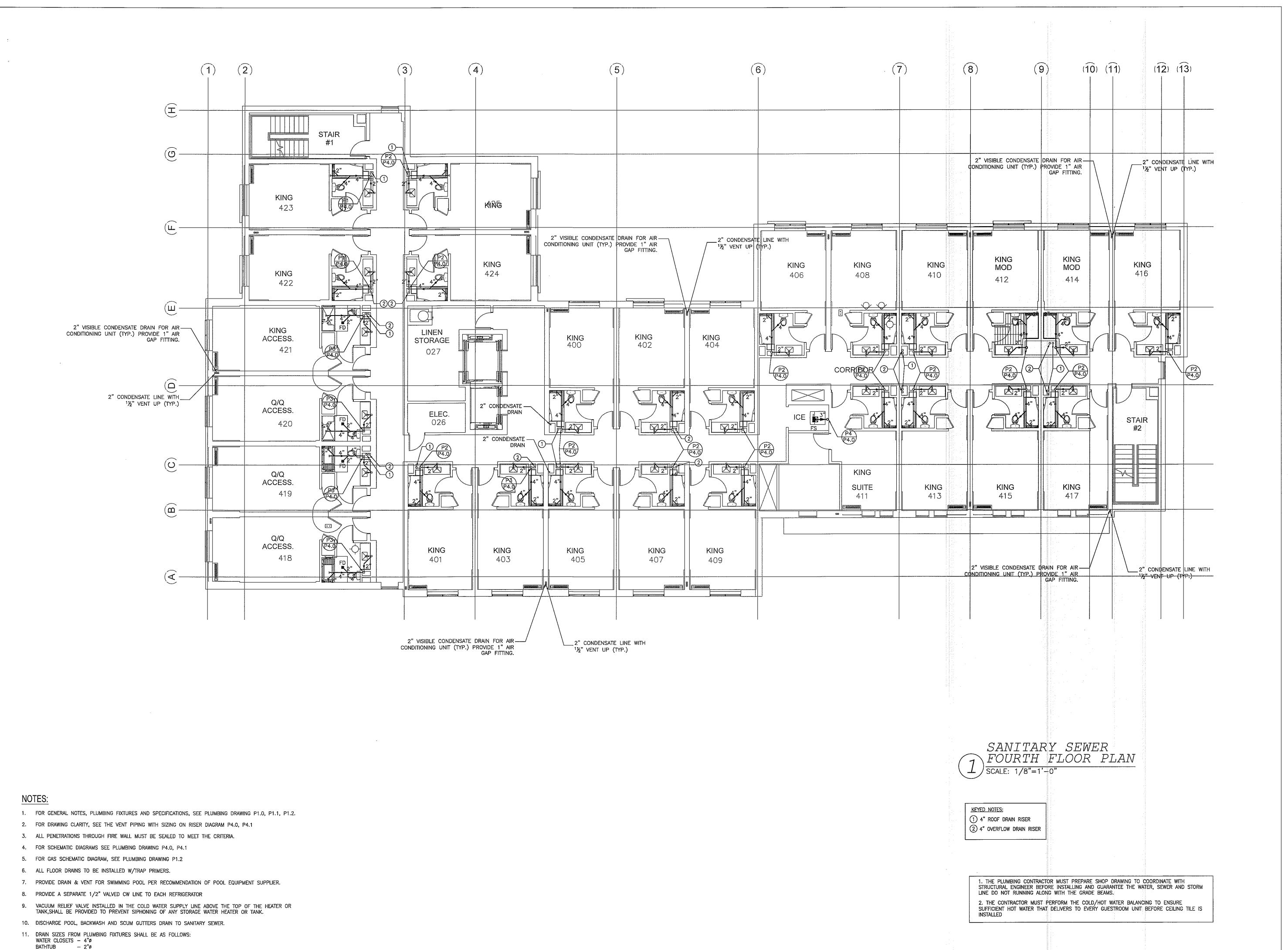
SEAL+SIGNATURE

HING D.

, CENSά·

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

P2.2



LAVATORY — 2"ø FLOOR DRAIN — 2"ø

FLOOR SINK - 3"ø



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWN

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809

P: 407.490.0350 F: 407.232.6000 WWW.RABITS—ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817

P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195

WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

REVISIONS

PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

SANITARY SEWER FOURTH FLOOR PLAN

Reviewed on code compliance
BY
DATE

03////9

SEAL+SIGNATURE

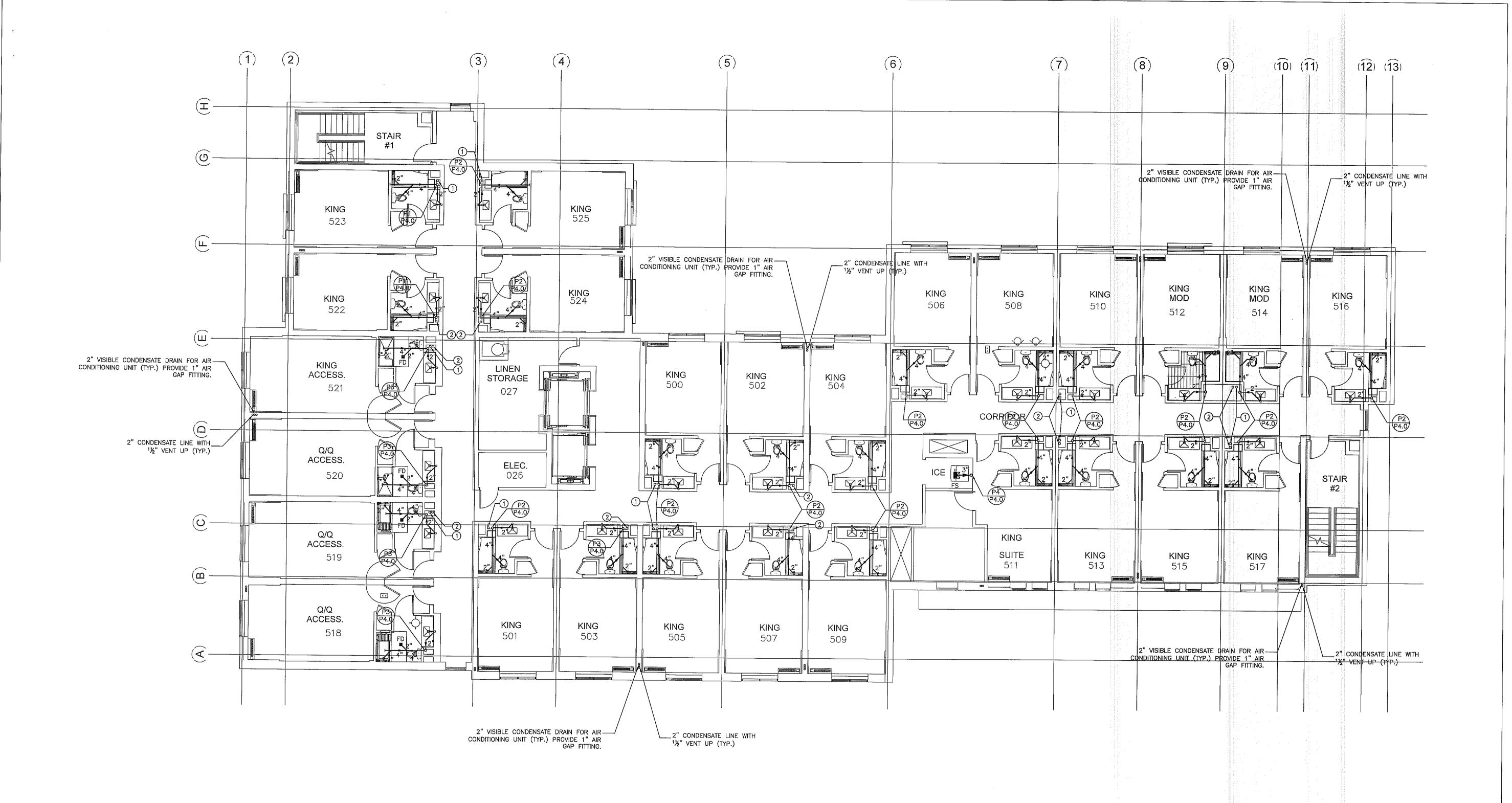
SEAL+SIGNATURE

No. 83005

No. 83005

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

P2.3



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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 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.
- 10. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 11. 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

SANITARY SEWER

FIFTH FLOOR PLAN

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

KEYED NOTES:

1 4" ROOF DRAIN RISER
2 4" OVERFLOW DRAIN RISER

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



JCER DESIGN CONSULTANTS LLC
NEW YORK
325 GOLD STREET, STE 604
BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350
F: 407.232.6000

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

WWW.RABITS-ARCHITECT.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

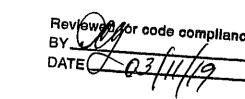
REVISIONS		
	""	
		 "
		 <u> </u>
		 1
	·	
PROJECT NAME		

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

SANITARY SEWER FIFTH FLOOR PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

SEAL+SIGNATURE

D. VICENSK.

No. 83005

PROJECT NUMBER 17.282

DRAWING NUMBER

DECOR: CYnergy

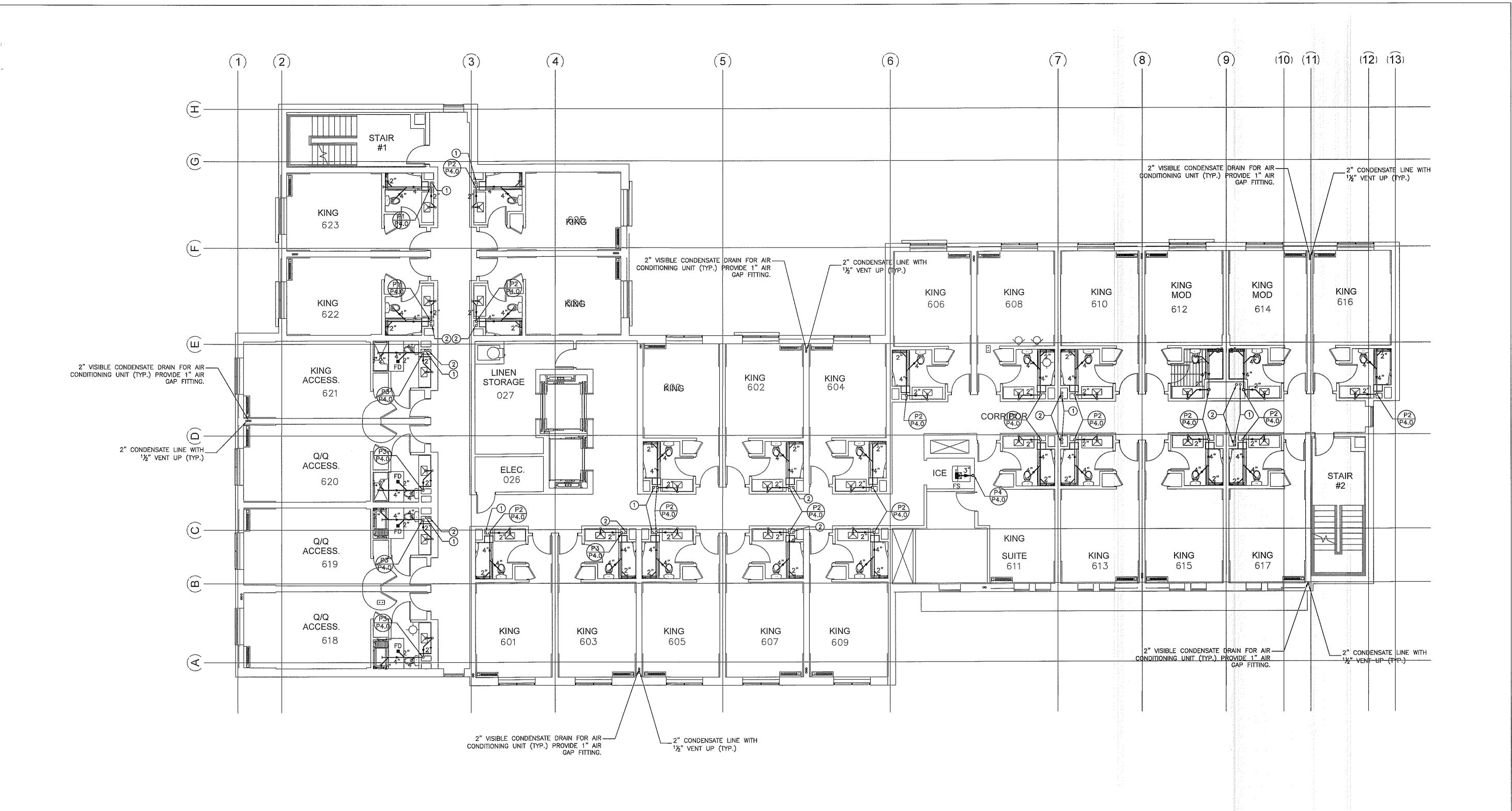
DATE

P2.4

PAGE NUMBER

©JCER Design Consultants 2018

01.18.2019



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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. 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.
- 10. DISCHARGE POOL, BACKWASH AND SCUM GUTTERS DRAIN TO SANITARY SEWER.
- 11. 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

SANITARY SEWER SIXTH FLOOR PLAN

KEYED NOTES: 1) 4" ROOF DRAIN RISER 2 4" OVERFLOW DRAIN RISER

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



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

WWW.ASEIICORP.COM

P: 407.490.0350

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

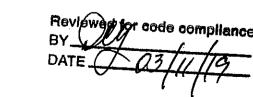
REVISIONS PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

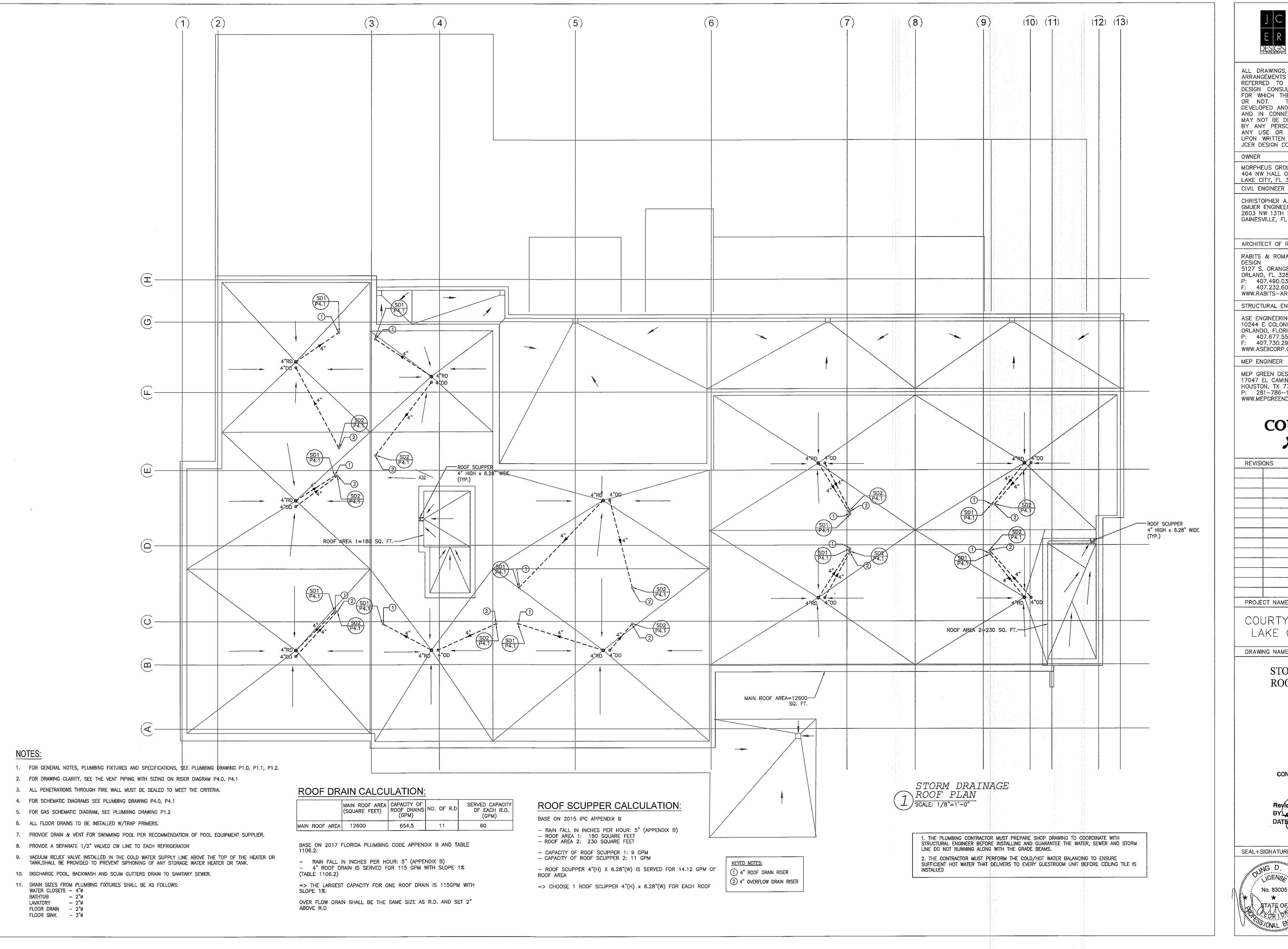
SANITARY SEWER SIXTH FLOOR PLAN

CONTRACTOR COPY



SEAL+SIGNATURE CENSX

DATE 01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER DECOR: CYnergy





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350 F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

REVISIONS			
DDO IFOT N	A 1 4 5	 	

PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

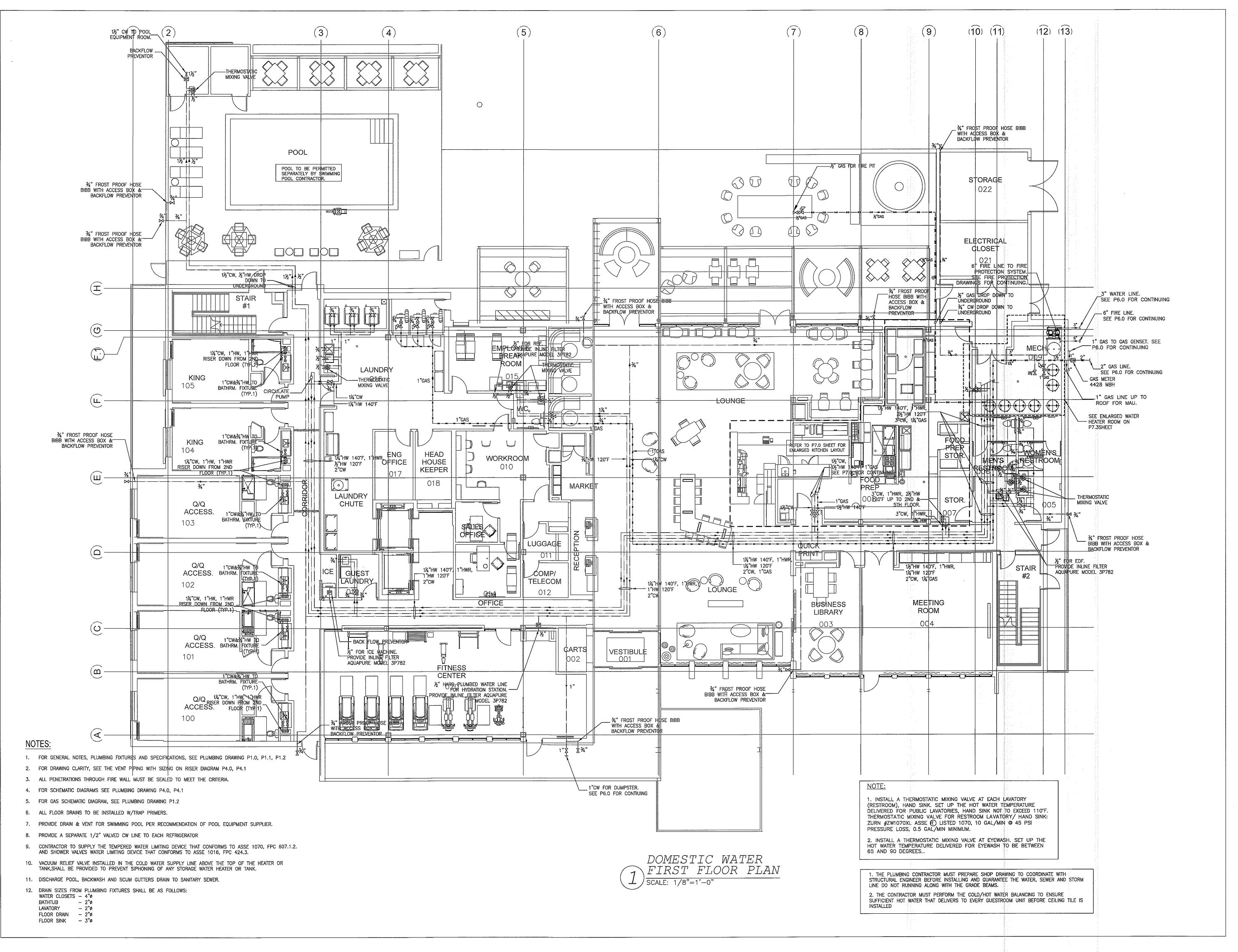
DRAWING NAME

STORM DRAINAGE ROOF PLAN

CONTRACTOR COPY

SEAL+SIGNATURE HUNG D. (CENSX: STATE OF

DATE 01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER DECOR: CYnergy





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

CIVIL ENGINEER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

P: 407.490.0350 F: 407.232.6000 WWW.RABITS—ARCHITECT.COM

WWW.RABITS-ARCHITECT.COM

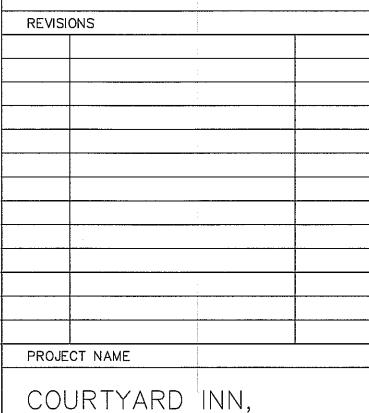
STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

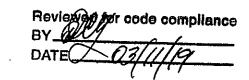


LAKE CITY, FL.

DRAWING NAME

DOMESTIC WATER FIRST FLOOR PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

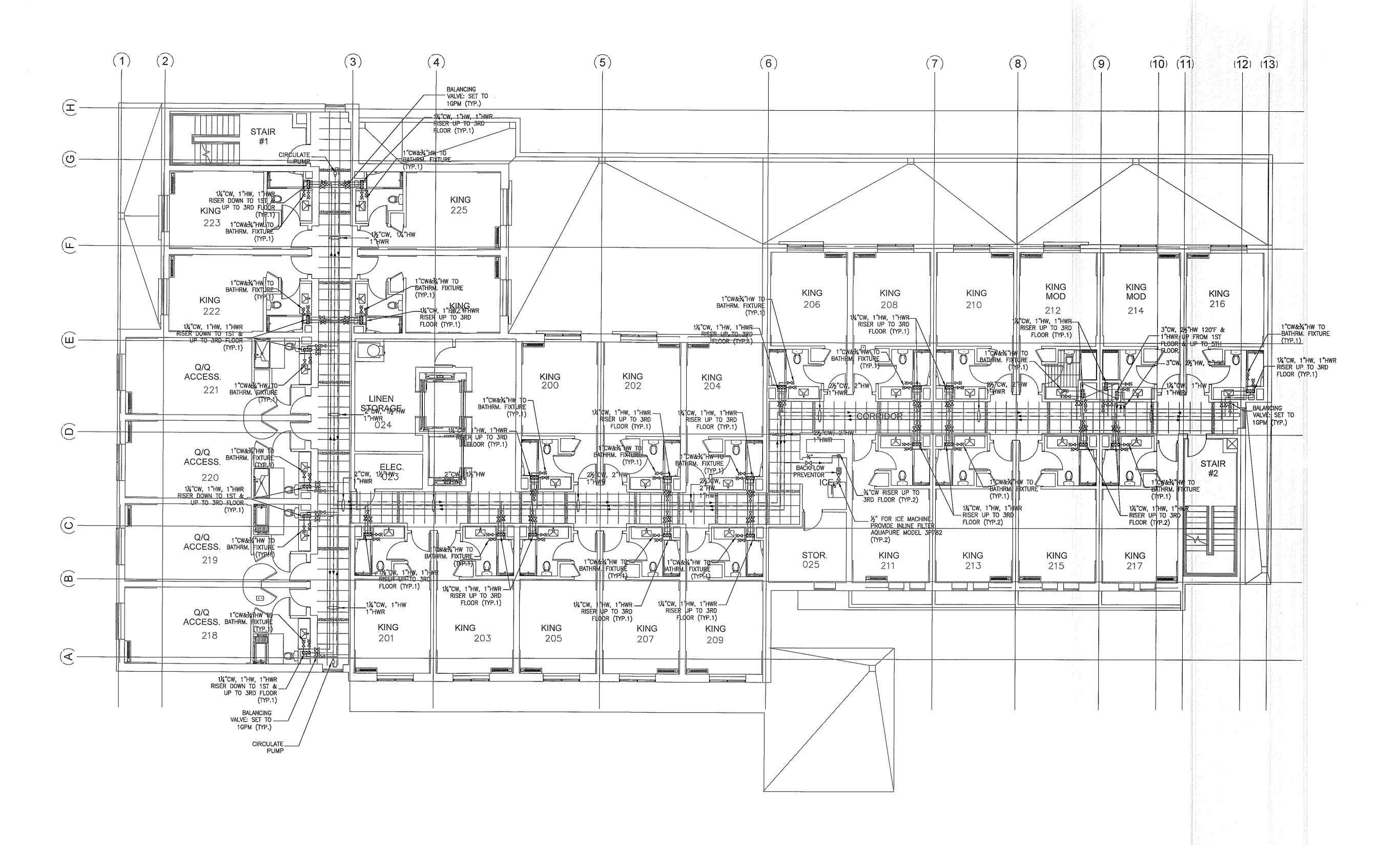
SEAL+SIGNATURE

No. 83005

No. 83005

STATE OF A

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy
PAGE NUMBER



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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1070, FPC 607.1.2. AND SHOWER VALVES WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1016, FPC 424.3.
- 10. 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

DOMESTIC WATER



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

P: 407,490,0350

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

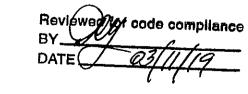
REVISION	S		

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

DOMESTIC WATER SECOND FLOOR PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

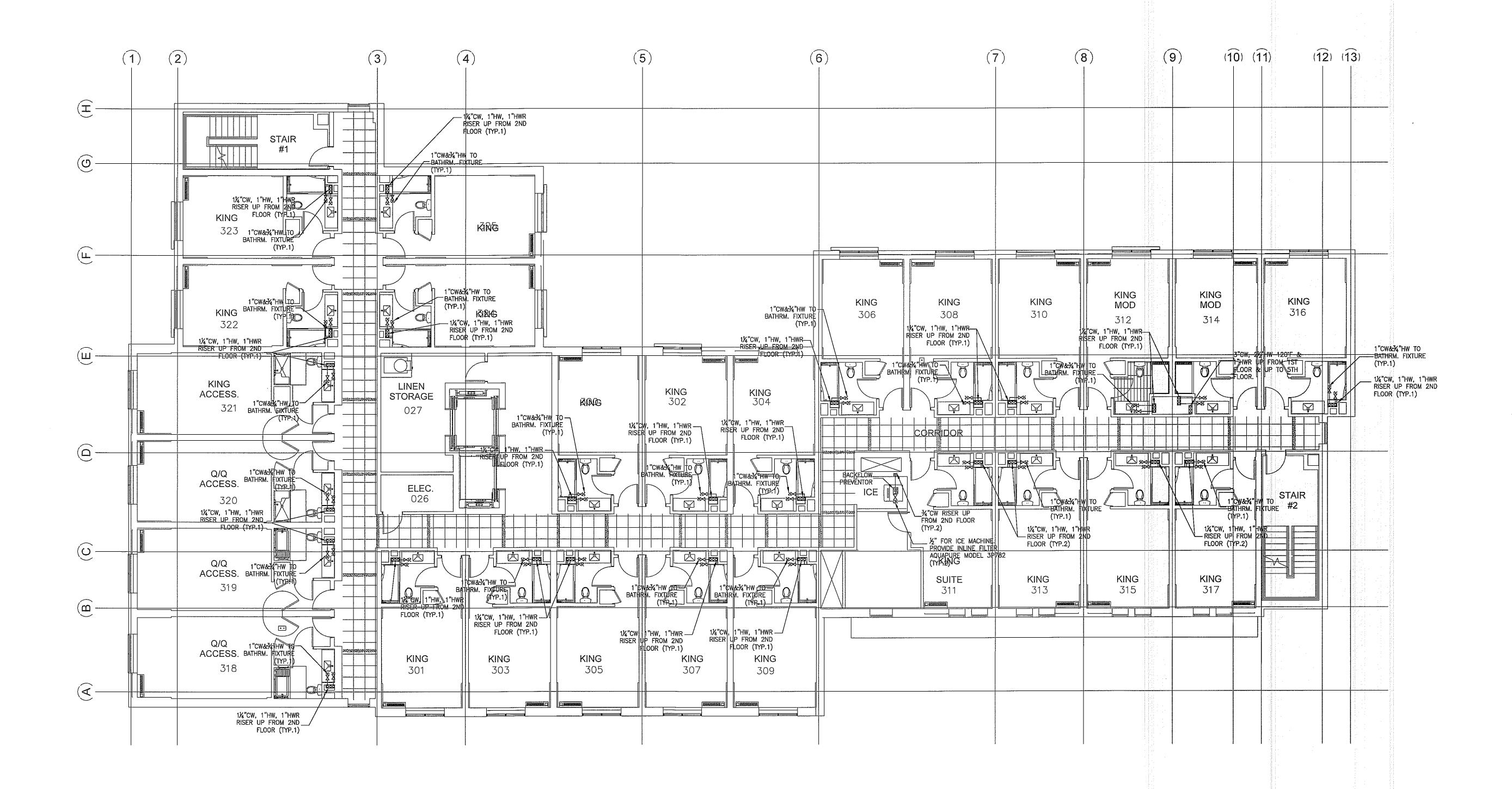
CENSA

DATE 01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER

DECOR:

PAGE NUMBER ©JCER Design Consultants 2018

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



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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1070, FPC 607.1.2. AND SHOWER VALVES WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1016, FPC 424.3.
- 10. 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

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

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.

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.



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

JUER DESIGN CONSULTANTS.
OWNER
MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055
CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHI

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350
F: 407.232.6000

WWW.RABITS—ARCHITECT.COM
STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

SIONS			

	SIONS	SIONS	SIONS

COURTYARD INN, LAKE CITY, FL.

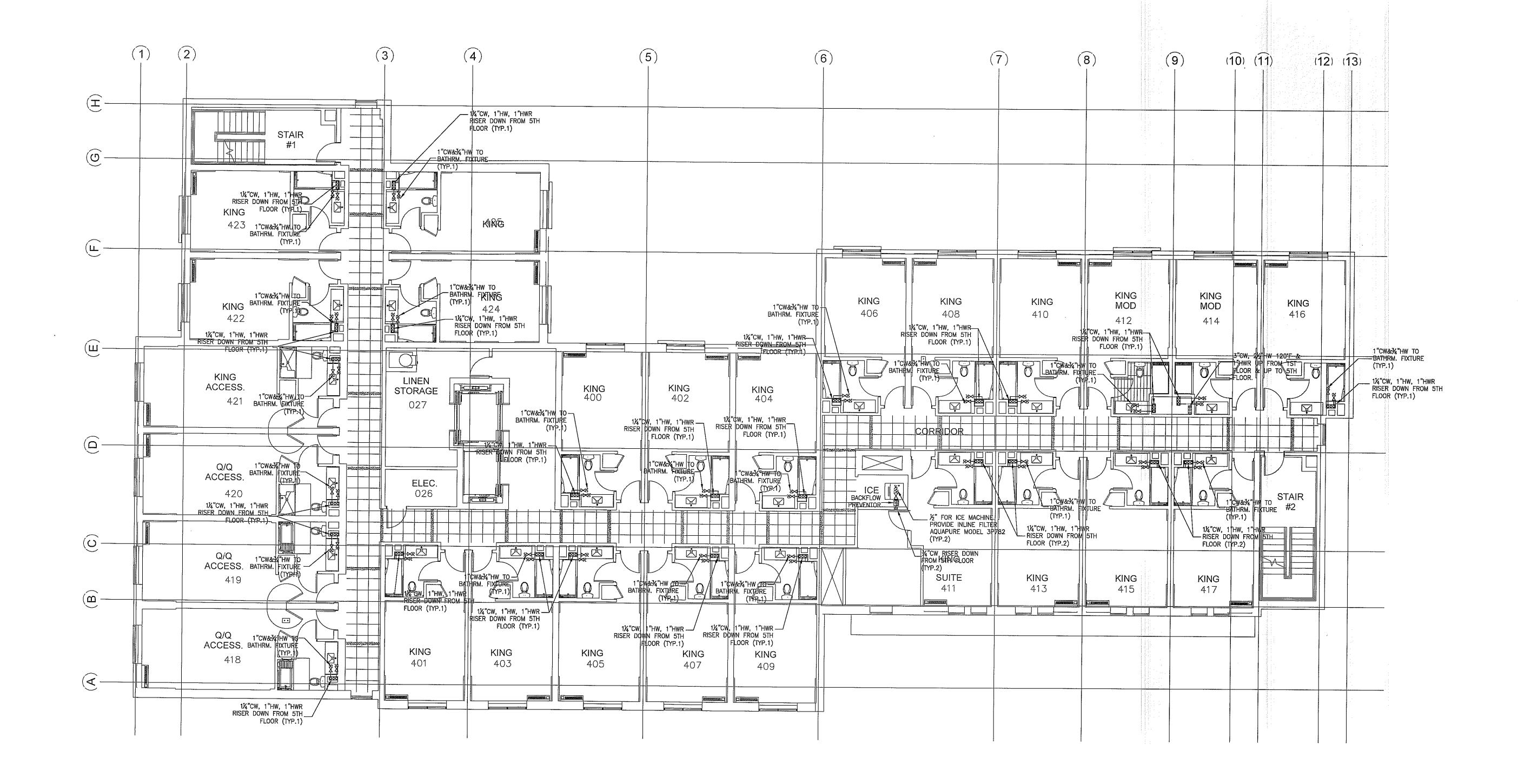
DRAWING NAME

DOMESTIC WATER THIRD FLOOR PLAN

CONTRACTOR COPY

Reviewed for code compliar
BY
DATE 03/1/9

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnerg



DOMESTIC WATER
FOURTH FLOOR PLAN

- 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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1070, FPC 607.1.2. AND SHOWER VALVES WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1016, FPC 424.3.
- 10. 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.
- LAVATORY 2"ø FLOOR DRAIN - 2"ø FLOOR SINK - 3"ø
- 12. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS: WATER CLOSETS - 4"ø BATHTUB – 2"ø

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

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**®

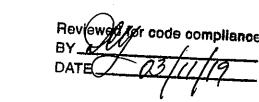
REVISIO)NS		
		-	
			

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

DOMESTIC WATER FOURTH FLOOR PLAN

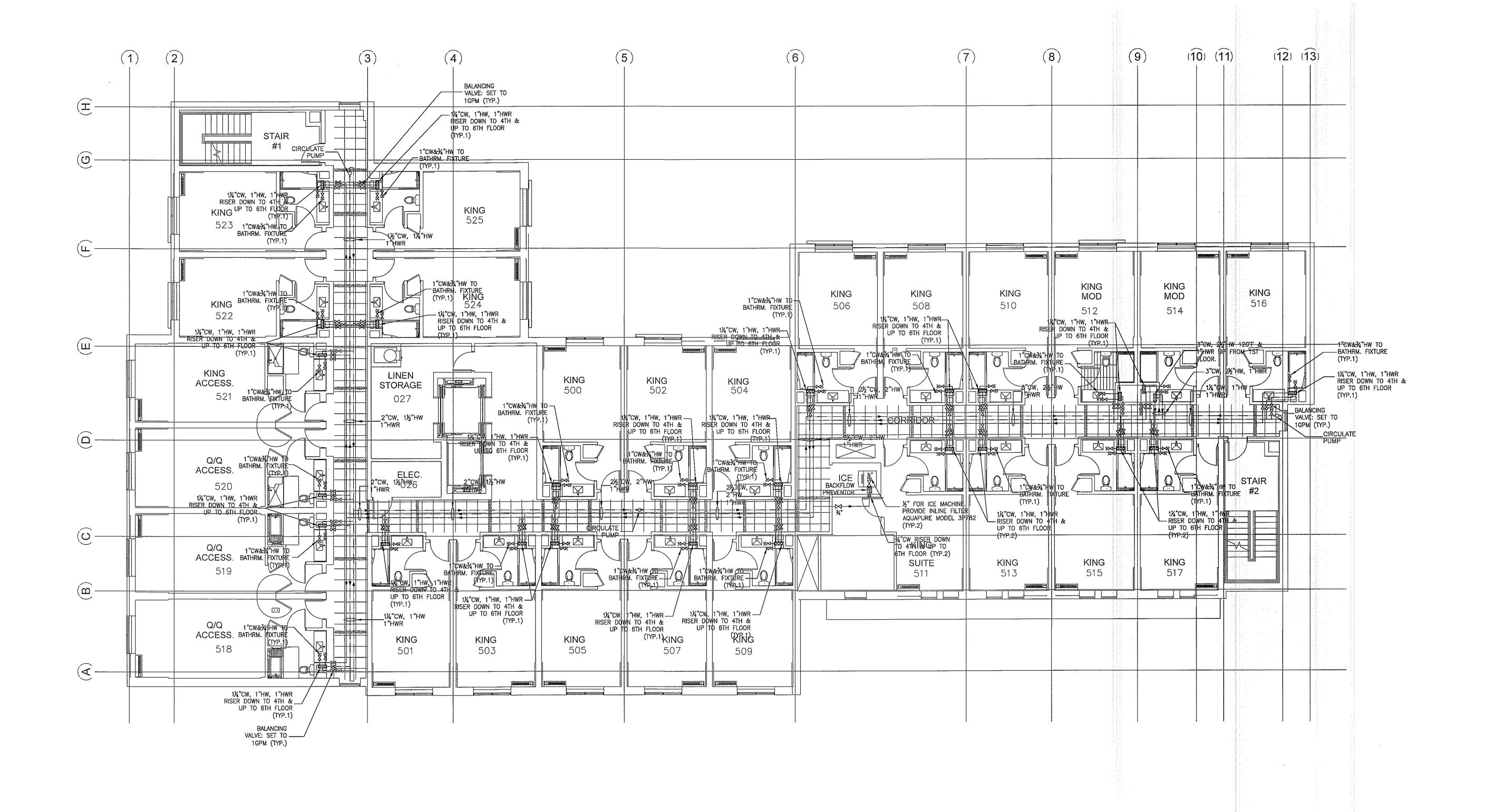
CONTRACTOR COPY



SEAL+SIGNATURE

CENSX

DATE 01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER DECOR:



DOMESTIC WATER
FIFTH FLOOR PLAN

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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1070, FPC 607.1.2. AND SHOWER VALVES WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1016, FPC 424.3.
- 10. 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

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



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER MORPHEUS GROUP

404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**

REVISI	ONS		
	·		
		•	

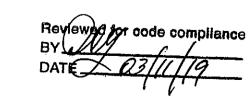
COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PROJECT NAME

DOMESTIC WATER FIFTH FLOOR PLAN

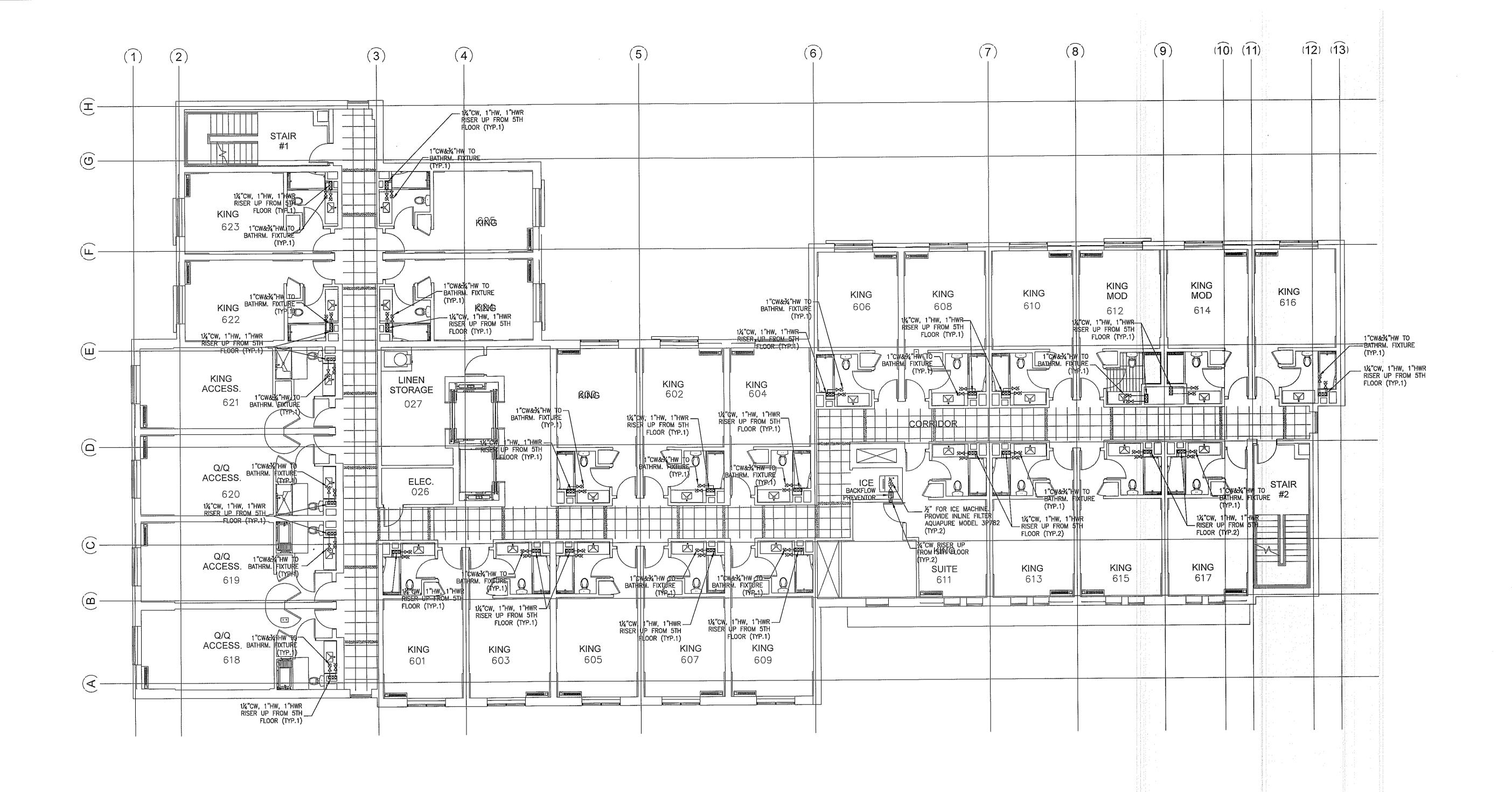
CONTRACTOR COPY



SEAL+SIGNATURE

01.18.2019 PROJECT NUMBER 17.282

DRAWING NUMBER DECOR:



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
- 3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
- 4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1
- 5. FOR GAS SCHEMATIC DIAGRAM, SEE PLUMBING DRAWING P1.2
- 6. ALL FLOOR DRAINS TO BE INSTALLED W/TRAP PRIMERS.
- 7. PROVIDE DRAIN & VENT FOR SWIMMING POOL PER RECOMMENDATION OF POOL EQUIPMENT SUPPLIER.
- 8. PROVIDE A SEPARATE 1/2" VALVED CW LINE TO EACH REFRIGERATOR
- 9. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1070, FPC 607.1.2. AND SHOWER VALVES WATER LIMITING DEVICE THAT CONFORMS TO ASSE 1016, FPC 424.3.
- 10. 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

FLOOR SINK - 3"ø

BATHTUB – 2"ø LAVATORY – 2"ø FLOOR DRAIN – 2"ø DOMESTIC WATER
SIXTH FLOOR PLAN

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

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

J C JCER DESIGN CONSULTANTS LLC
NEW YORK
325 GOLD STREET, STE 604
BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

CIVIL ENGINEER

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

P: 407,490,0350

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

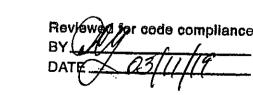
REVISI	ONS			
	- · · ·			
		· · ·	 	
			 	-
PRO IF	CT NAME			l

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

DOMESTIC WATER SIXTH FLOOR PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

SEAL+SIGNATURE

No. 83005

No. 83005

PROJECT NUMBER 17.282

DRAWING NUMBER

DECOR: CYnergy

PROJECT NUMBER 17.282

DRAWING NUMBER

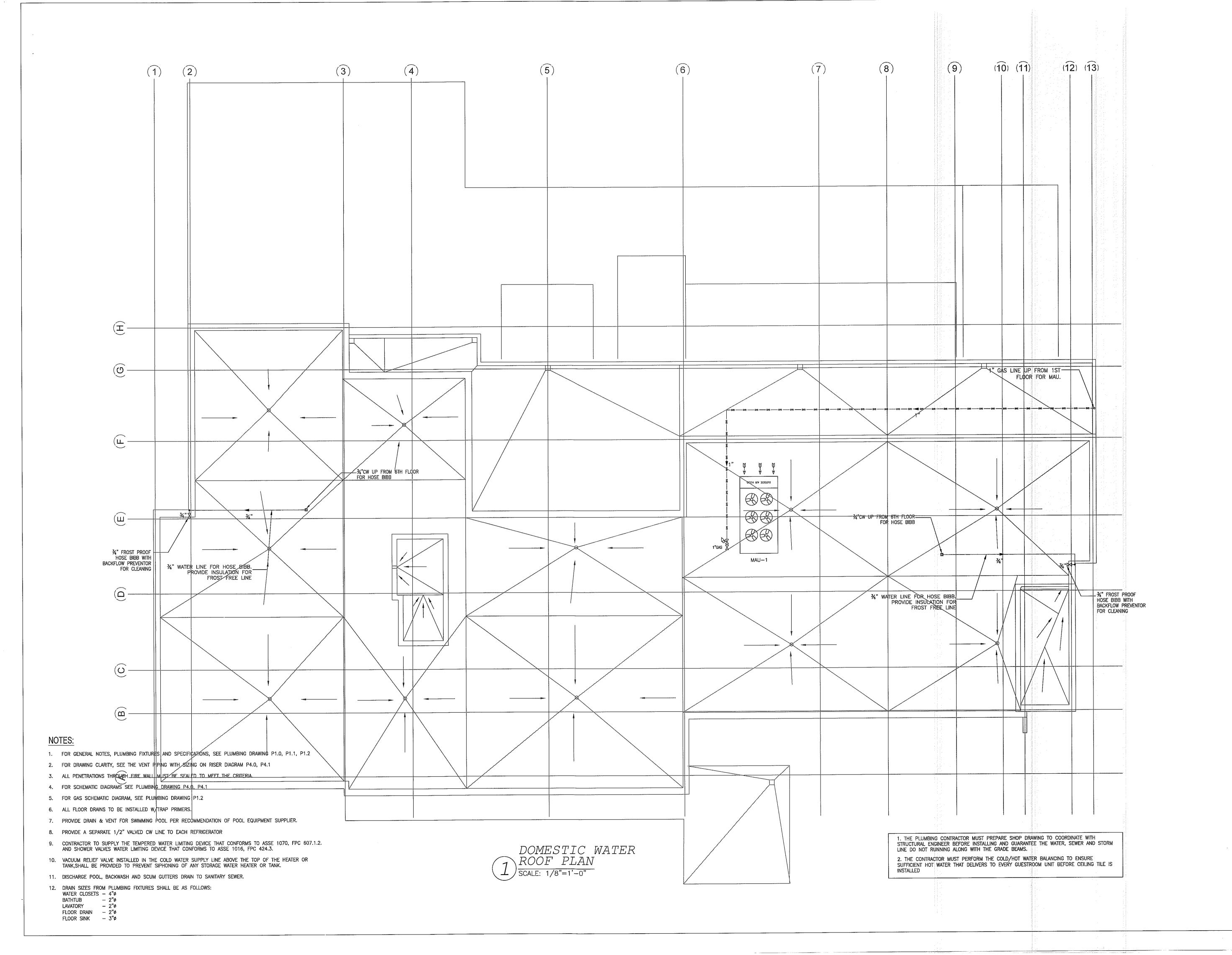
DECOR: CYnergy

PAGE NUMBER

©JOER Design Consultants 2018

DATE

01.18.2019





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110

P: 407.490.0350 F: 407.232.6000 WWW.RABITS—ARCHITECT.COM

STRUCTURAL ENGINEER

ORLAND, FL 32809

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD®

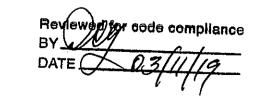
REVIS	ONS	
_		
PROJE	ECT NAME	

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

DOMESTIC WATER ROOF PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

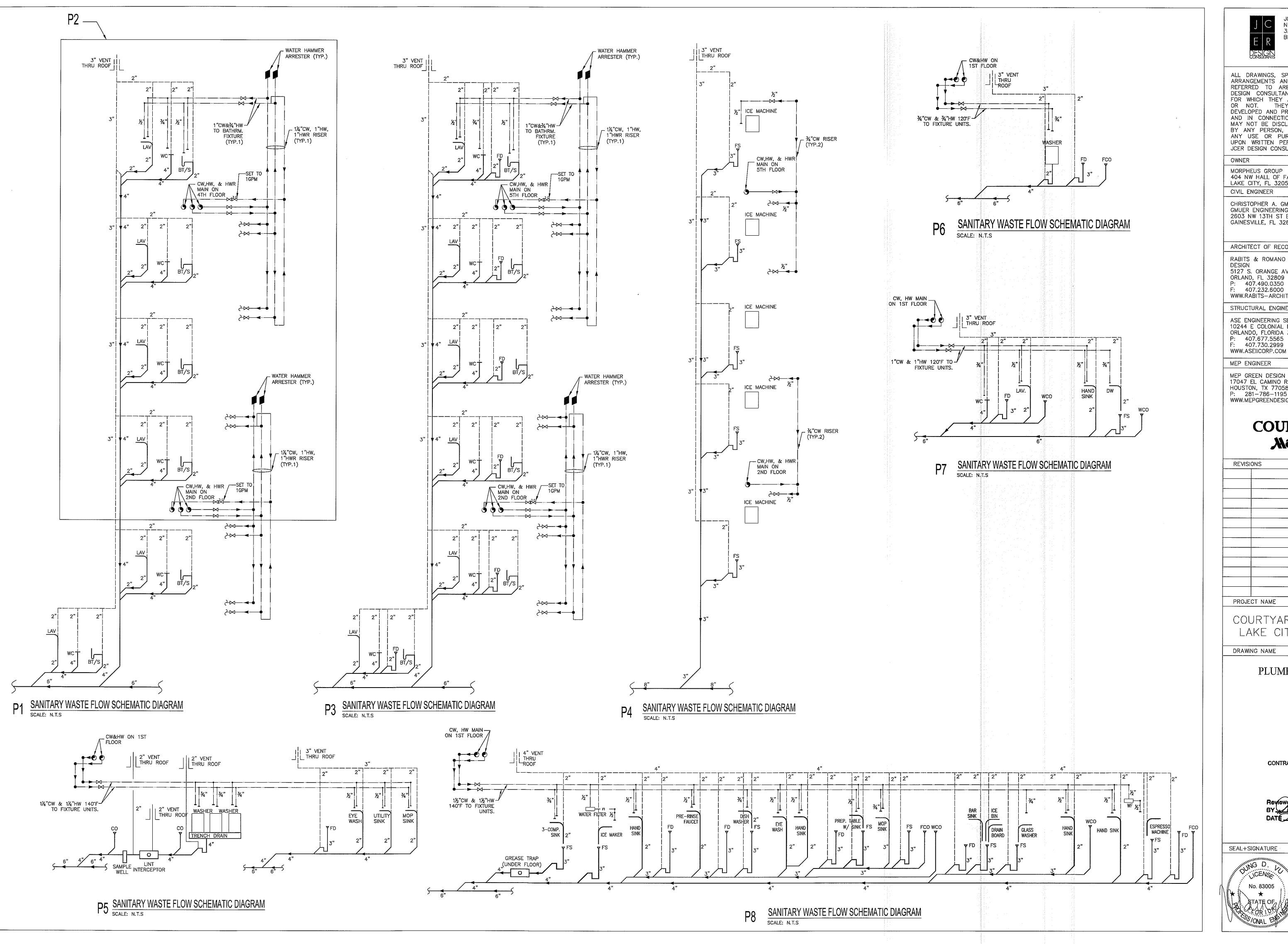
No. 83005

No. 83005

TATE OF A CONTROL O

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

PAGE NUMBER





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350 F: 407.232.6000

WWW.RABITS-ARCHITECT.COM STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

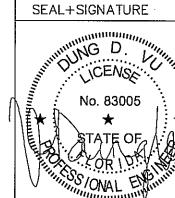
REVISI	ONS	
		•
	·	
PROJE	CT NAME	

COURTYARD INN, LAKE CITY, FL.

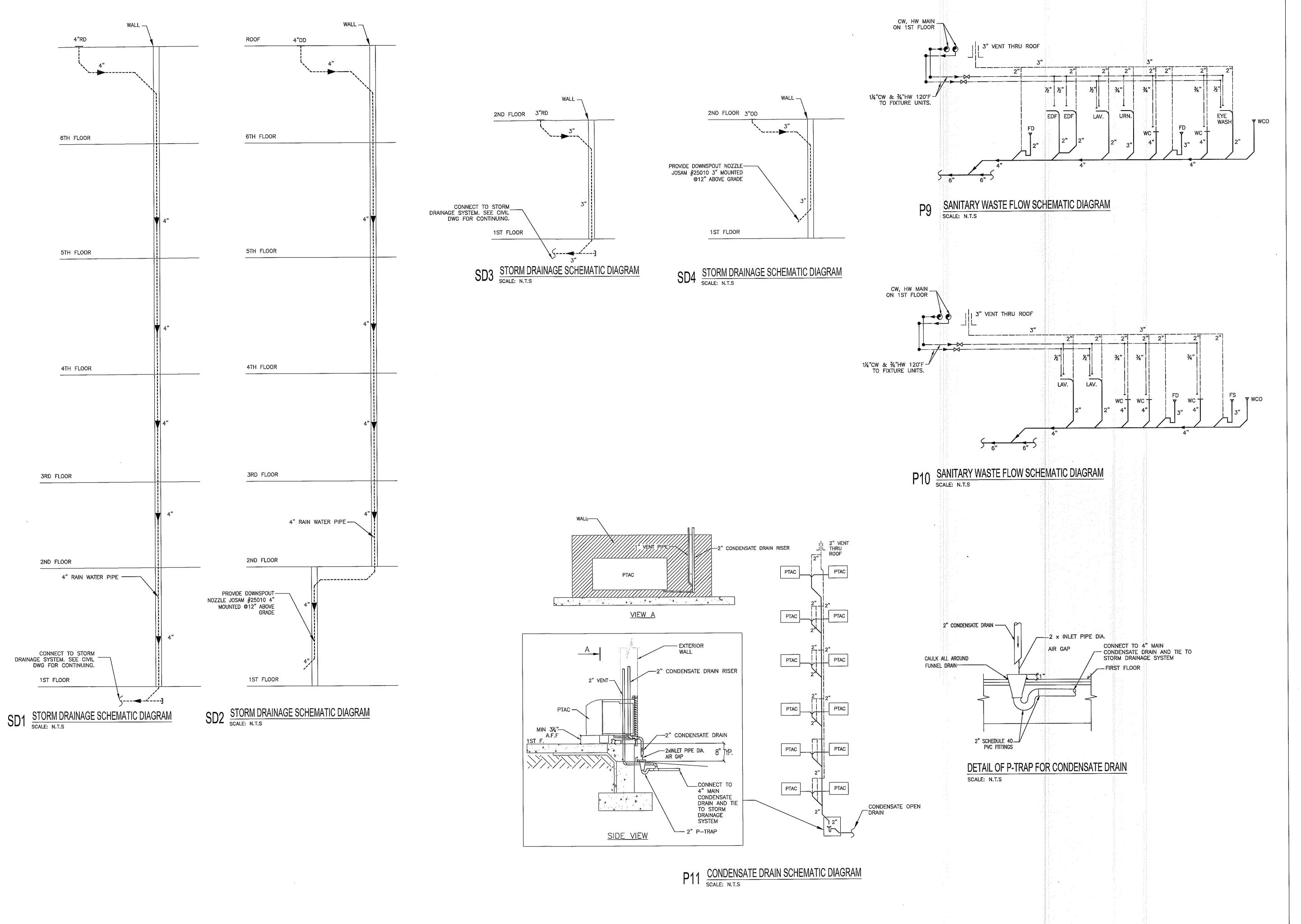
DRAWING NAME

PLUMBING RISERS

CONTRACTOR COPY



01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER P4.0





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

P: 407.490.0350

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott**_®

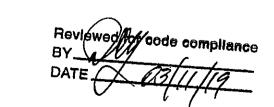
REVISION	SNC			
			·	
				 -
		1.111		
		<u>.,, </u>		
PROJE	CT NAME			

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING RISERS

CONTRACTOR COPY



01.18.2019

DATE SEAL+SIGNATURE PROJECT NUMBER 17.282 DRAWING NUMBER PAGE NUMBER ©JCER Design Consultants 2018

SPECIFICATION

Notes

- 4" FPT inlet/outlet with 4"x3" FPT fittings.
 Unit weight 49 lbs. (wet weight 216 lbs.)
- 3. Capacities Liquid: 20 gal.

 @35 GPM- Grease: 130 lbs. (17.8 gal.)

 @50 GPM- Grease: 127 lbs. (17.3 gal.)
- Solids: 1.8 gal.
 4. Built-in flow control.
- For gravity drainage applications only.
 Do not use for pressure applications.
- 7. Cover placement allows full access to tank for proper maintenance.
 8. Vent not required unless per local code.
- Engineered inlet and outlet diffusers are removable to inspect/clean piping.
 Integral air relief / anti-siphon.

Engineer Specification Guide

Schier Great Basin™ grease interceptor model #GB2 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field cut riser system, built-in flow control, built-in test caps and three outlet options. Interceptor flow rate shall be 35 or 50 GPM.

Interceptor grease capacity shall be 130 lbs. @ 35 GPM or 127 lbs. @ 50 GPM. Cover shall provide water/gas-tight seal and have minimum 450 lbs. load capacity.

Certified Performance

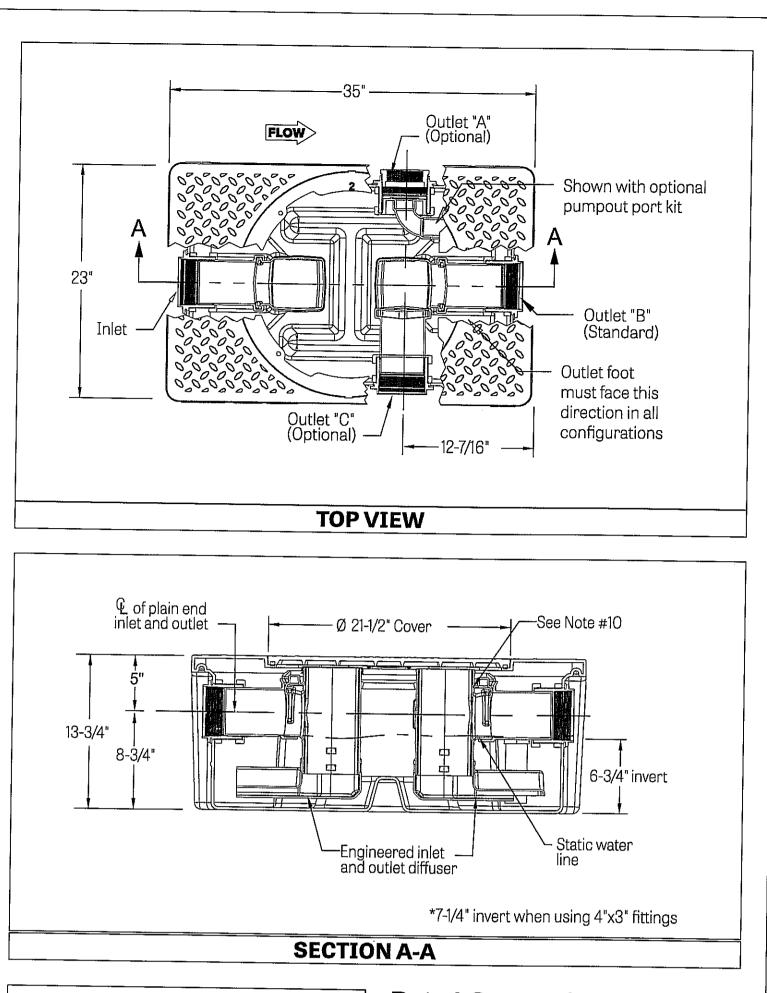
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code, the National Standard Plumbing Code, the National Plumbing Code of Canada, and the International Plumbing Code.

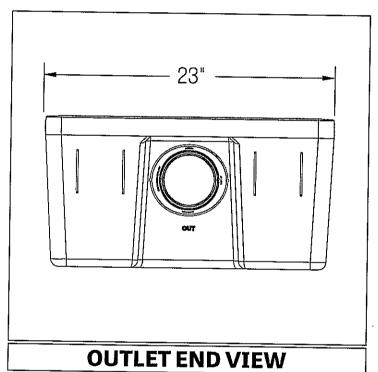


GREASE INTERCEPTOR SIZING:

1 OF 3-COMP. SINK: 3 x 18(L) x 24(W) x 14(D) = 18144 CU.IN. CONTEND IN GALLONS: 231 CU.IN./GALLON 18144: 231 = 78.55 GALLONS ACTUAL DRAINAGE LOAD: 0.75 x 78.55 = 58.91 GALLONS

SELECT GREASE TRAP SCHIER PRODUCTS GB2-50GPM MINIMUM 50 GPM FLOW MINIMUM 127 LBS. CAPACITY





Rated Grease Capacites for Units Piped in Series

Removal E	fficiency		
97.8%	99%*		
274 lbs.	180 lbs.		
	97.8%		

* Satisfies Miami DERM 99% efficiency requirements NOTE: Flow rate for 2 GB2 units piped in series is 35 GPM only

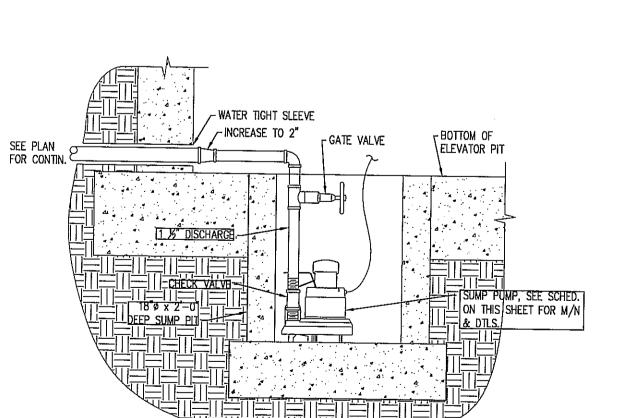
GREASE INTERCEPTOR SCHIER "GB-2" 50 GPM

50 GPM FLOW RATE18 GALLONS SOLID CAPACITY

- 49 LBS UNIT WEIGHT - 127 LBS GREASE CAPACITY

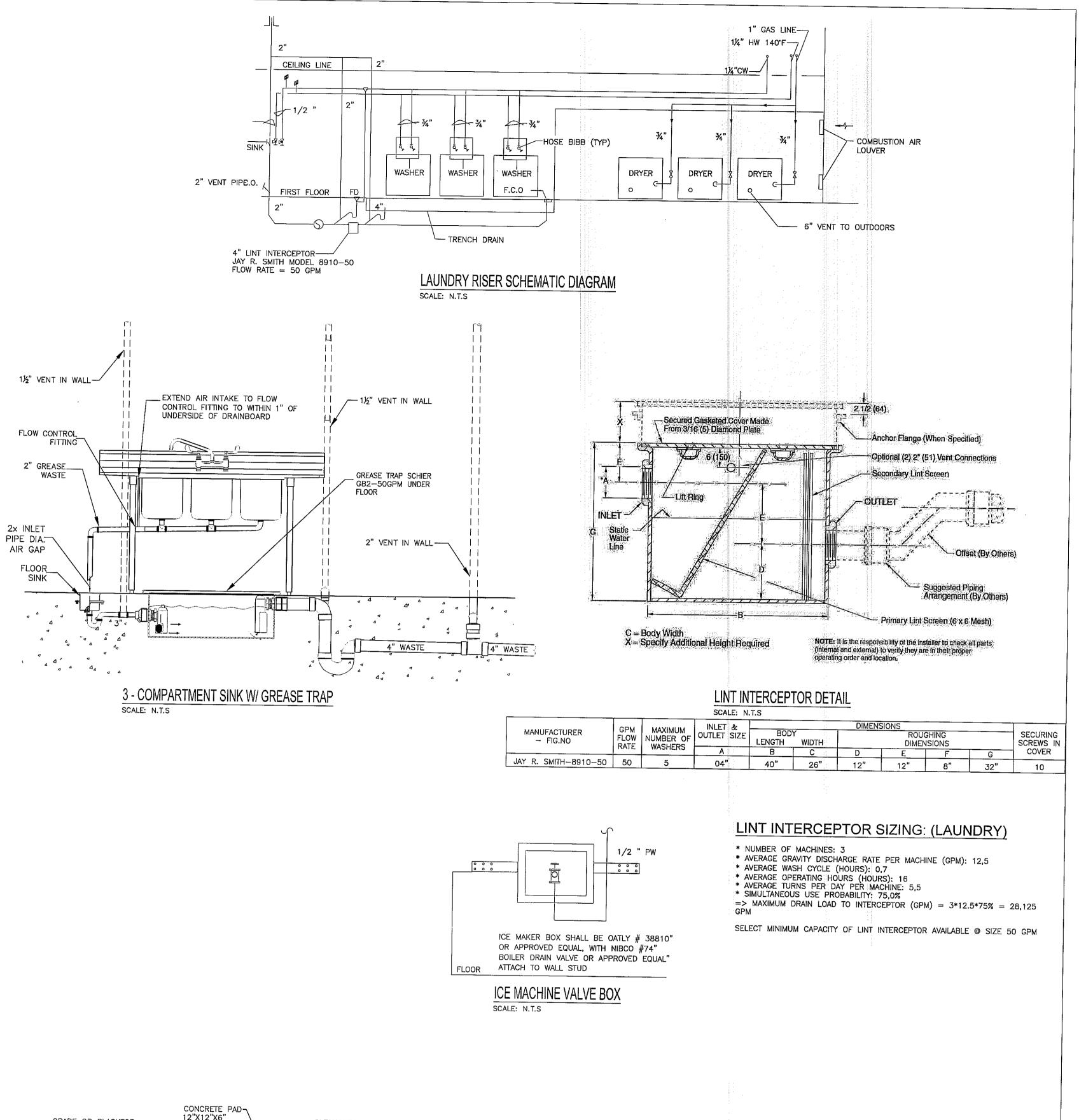
127 LBS GREASE CAPACITY
20 GAL LIQUID CAPACITY
216 LBS WET WEIGHT

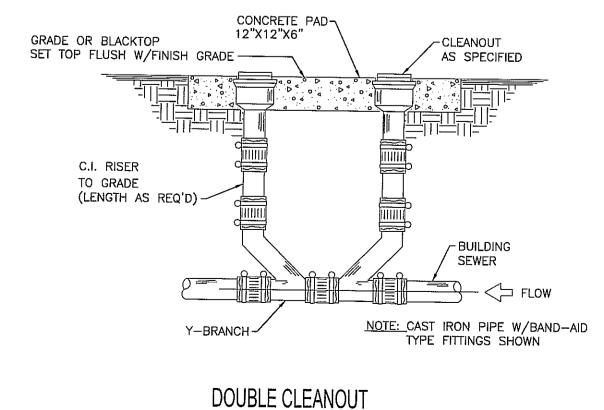
GREASE INTERCEPTOR DETAIL
SCALE: N.T.S



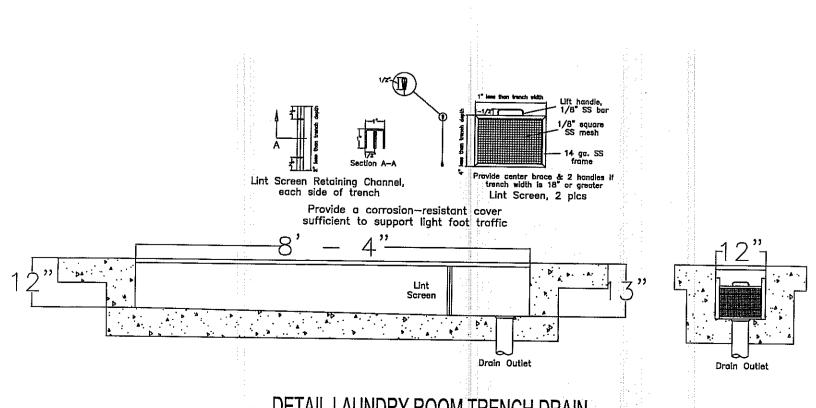
SUMP PUMP DETAIL
SCALE: N.T.S

			S	SUM PUN	1P S	CHEDUL	E.				
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GРM	HEAD (FT.)		MOTOR		CONNI	ECTIONS
					J	11010 (11)	HP	RPM	VOLTAGE	SUCTION	DISCHARGE
SP-1	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1¢/60	N/A	1 1/2"
SP-2	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	61	10	1/2	1725	120/1¢/60	N/A	1 1/2"





SCALE: N.T.S



DETAIL LAUNDRY ROOM TRENCH DRAIN
SCALE: N.T.S

J C E R

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP

404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350
F: 407.232.6000

WWW.RABITS-ARCHITECT.COM
STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD®

REVISION	DNS	
	<u> </u>	
PROJEC	T NAME	

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING DETAILS

CONTRACTOR COPY

Reviewed for code compliants

BY

DATE

(3/1/19

SEAL+SIGNATURE

PROJE

DRAWII

DECOR

No. 83005

TATE OF

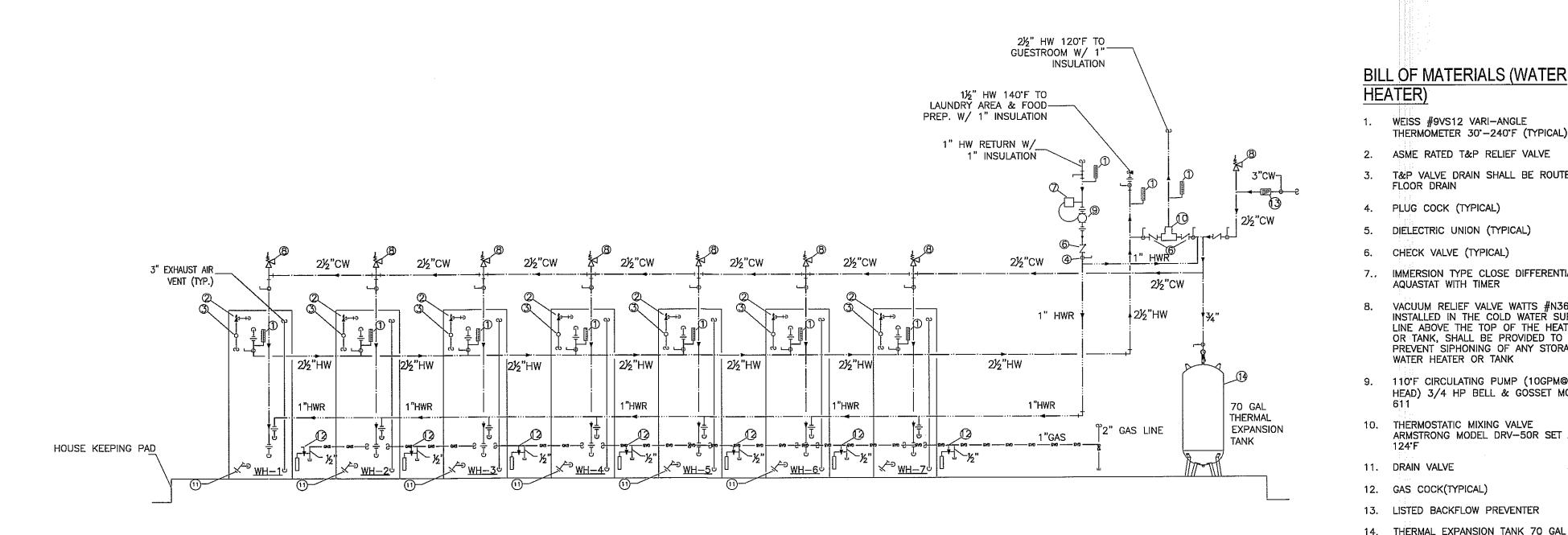
OR DEVICE OF THE OR OR OR OF THE OR OR OF THE OF THE OR OR OF THE OF THE OR OF

PROJECT NUMBER 17.282

DRAWING NUMBER

DECOR: CYnergy

01.18.2019



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

EQUIPMENT LIST:

© SOLENOID VALVE

(E) CONTROL PANEL

F BRONZE BALL VALVE

(G) PRESSURE GAUGE

(K) CHECK VALVE

BOOSTER PUMP NOTES:

SEE SPECIFICATIONS.

BOOSTER MODEL 6800G.

D PUMP & MOTOR (TYPICAL)

RUBBER ISOLATION CUSHION

(A) COPPER SUCTION HEADER FLANGE

B COPPER DISCHARGE HEADER FLANGE

H AQUASTAT (TEMPERATURE GAUGE)

L LOW SYSTEM PRESSURE CUT OFF SWITCH

M TANK DRAIN WITH MALE HOSE CONNECTION

1. BOOSTER SYSTEM SHALL EQUAL TO ARMSTRONG DUPLEX

2. PUMPS SHALL BE ARMSTRONG SERIES # VMS 1802, END

3. PUMP SYSTEM SHALL BE COMPLETELY FACTORY ASSEMBLED, TESTED AT FACTORY AND SHIPPED TO INSTALLATION AS AN

VENDOR SHALL SUPERVISE START-UP AND INITIAL RUN-IN

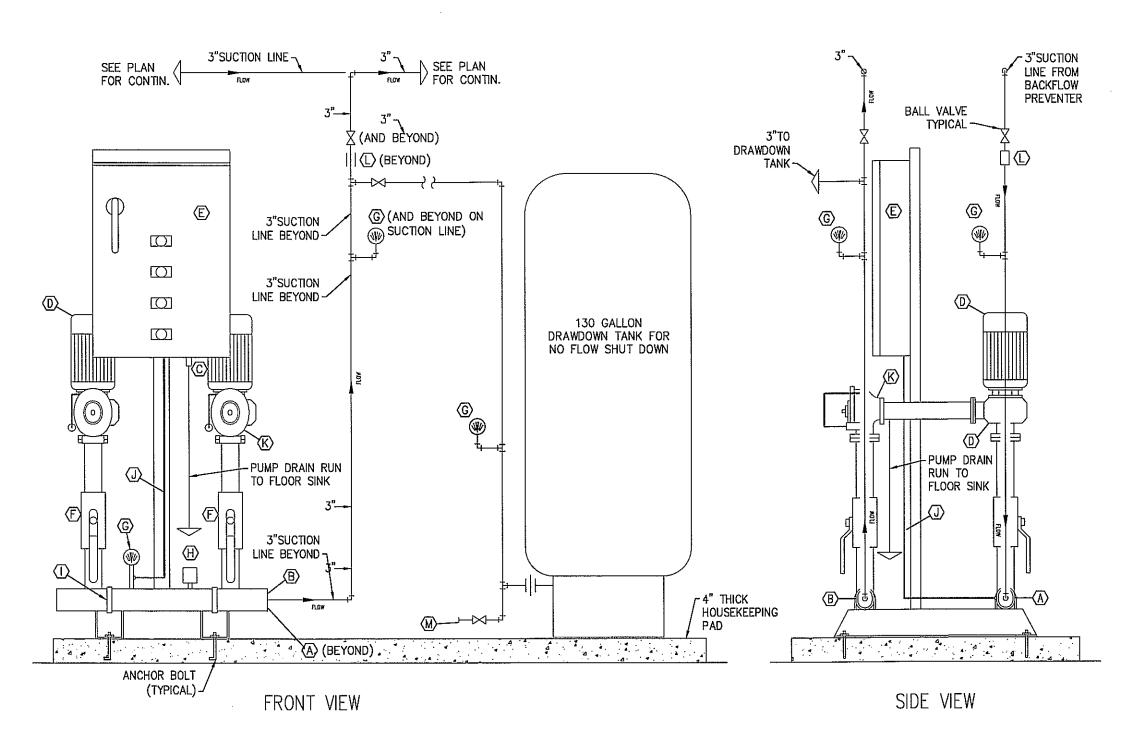
4. PUMP SYSTEM SHALL BE OF VARIABLE SPEED TYPE IN ORDER TO PROVIDE A CONSISTENT BUILDING WATER PRESSURE

INTEGRAL UNIT READY FOR DOMESTIC SYSTEM PIPING

SUCTION $-3 \times 1.5 \times 6$ (5 HP), WITH A SUCTION PRESSURE OF 40 PSI AND A BOOST PRESSURE OF 35 PSI.

INSTALLATION, CONTROL DEVICES SHALL BE PRE-SET, EQUIPMENT

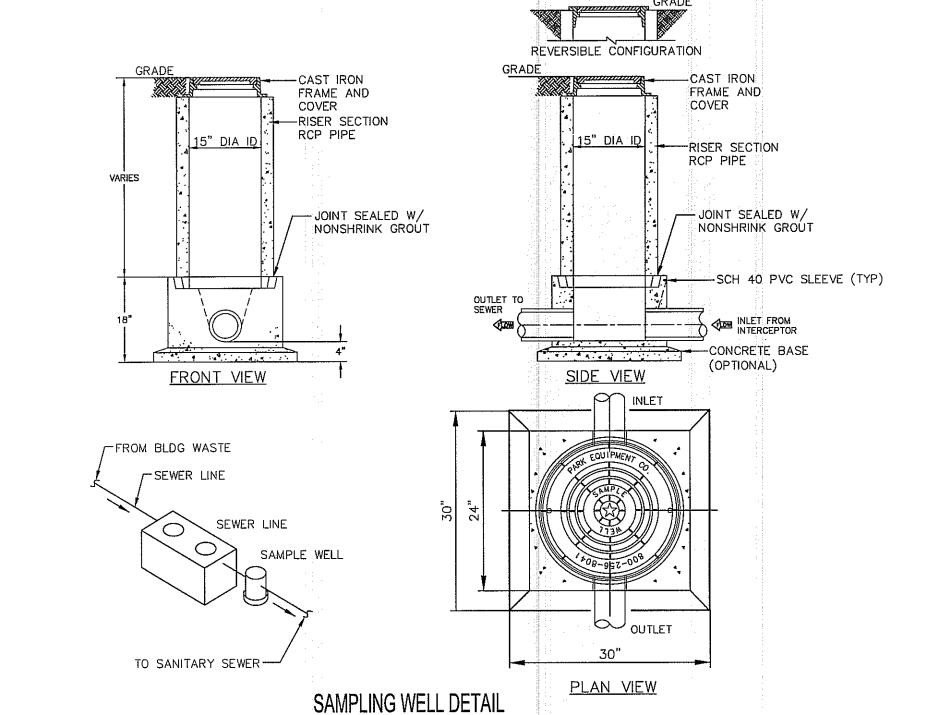
REGARDLESS OF PRESSURE FLUCTUATIONS IN STREET PRESSURE,



DOMESTIC BOOSTER PUMP PIPING DIAGRAM

SCALE: N.T.S

					BOOSTER	R PUMP	SCHE	DULE				
MADIC	LOCATION	LAANUE ACTURES	MODE	7/05	ODM	HEAD (FT.)		MOTOR		CONN	ECTIONS	REMARKS
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FI.)	HP	RPM	VOLTAGE	SUCTION	DISCHARGE	
BP	WATER HEATER RM	ARMSTRONG	6800G	DUPLEX BOOSTER	80 (EA. PUMP)	120	5 (EA. PUMP)	3450	208/3¢/60	3"	3"	DUPLEX PACKAGED BOOSTER SYSTEM BASED ON ARMSTRONG NO. 6800G WITH (2) 5 HP VMS-1802 VARIABLE SPEED PUMPS. PROVIDE WITH INTEGRAL DISCONNECT.



1. WEISS #9VS12 VARI-ANGLE

FLOOR DRAIN

4. PLUG COCK (TYPICAL)

6. CHECK VALVE (TYPICAL)

AQUASTAT WITH TIMER

WATER HEATER OR TANK

10. THERMOSTATIC MIXING VALVE

13. LISTED BACKFLOW PREVENTER

14. THERMAL EXPANSION TANK 70 GAL

11. DRAIN VALVE

12. GAS COCK(TYPICAL)

THERMOMETER 30'-240'F (TYPICAL)

7.. IMMERSION TYPE CLOSE DIFFERENTIAL

8. VACUUM RELIEF VALVE WATTS #N36

INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO

PREVENT SIPHONING OF ANY STORAGE

HEAD) 3/4 HP BELL & GOSSET MODEL

ARMSTRONG MODEL DRV-50R SET AT

9. 110°F CIRCULATING PUMP (10GPM@40FT.

T&P VALVE DRAIN SHALL BE ROUTED TO

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)

. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)

SCALE: N.T.S

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

CI CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY-DUTY

AASHTO H-20

SEAL+SIGNATURE uning D. CENSS No. 83005 STATE OF

01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER DECOR: CYnergy

PAGE NUMBER ©JCER Design Consultants 2018

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE

LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809

P: 407.490.0350 F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD®

	**Aarriott									
REVISION	ONS									
			İ							

PROJECT NAME

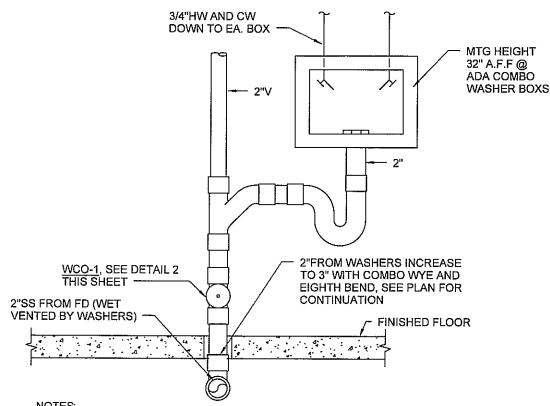
COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

PLUMBING DETAILS

CONTRACTOR COPY

Reviewed for code compliance

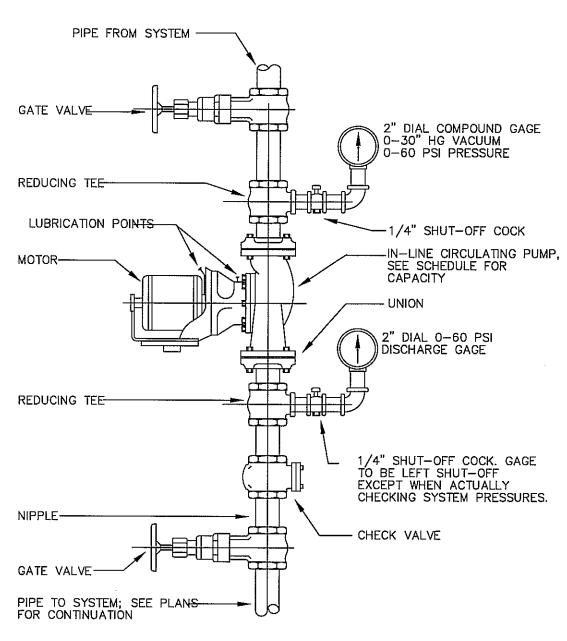


- NOTES:

 1. DOUBLE WASHER BOXES SHOWN, IF ONLY A SINGLE WASHER IS PRESENT, INSTALLATION THE SAME MINUS SECOND WASHER.

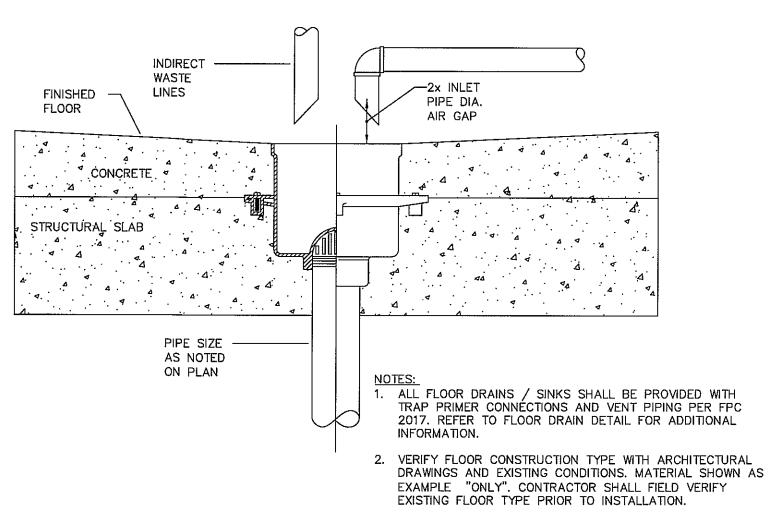
 1. DOUBLE WASHER BOXES SHOWN, IF ONLY A SINGLE WASHER INSTALL ADDITIONAL
- 2. IF THERE ARE MORE THAN TWO WASHERS, INSTALL ADDITIONAL WASHERS PER THIS DETAIL.
- 3. TOP MOUNT VALVES SHOWN, IF GUEST LAUNDRY IS ON UPPER FLOOR, PROVIDE BOTTOM MOUNT VALVES.

 4. PROVIDE SIOUX CHIEF "LAUNDRY MINI" WATER HAMMER
- ARRESTORS ON EACH OUTLET.

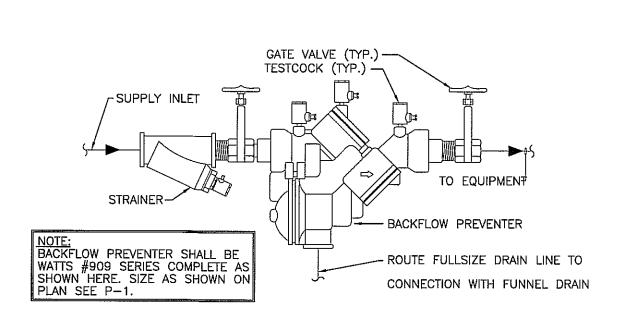


HOT WATER CIRCULATION PUMP DETAIL SCALE: NTS

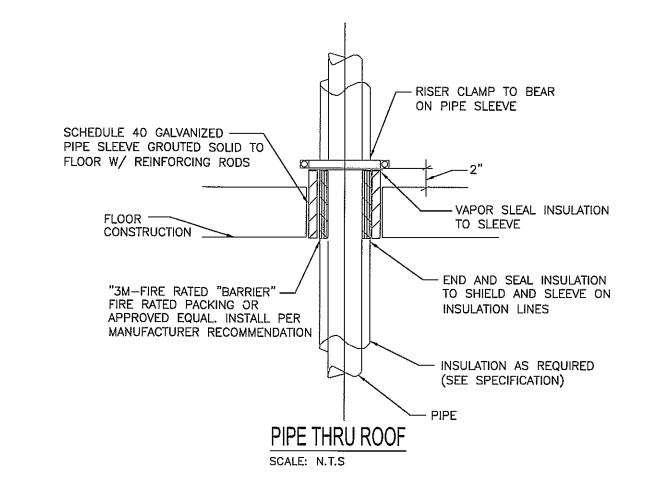
NOTE FOR CIRCULATING PUMP: . THE AUTOMATIC TIME SWITCHES INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM OR HEAT TRACE 2. PUMPS THAT CIRCULATE WATER BETWEEN A HEATER AND STORAGE TANK HAVE CONTROLS THAT LIMIT OPERATION FROM STARTUP TO <= 10 MINUTES AFTER END OF HEATING CYCLE. 3. PROVIDE A TIME SWITCH OR OTHER CONTROLS THAT CAN BE SET TO SWITCH OFF THE USAGE TEMPERATURE MAINTENANCE SYSTEM DURING EXTENDED PERIODS WHEN HOT WATER IS NOT REQUIRED.

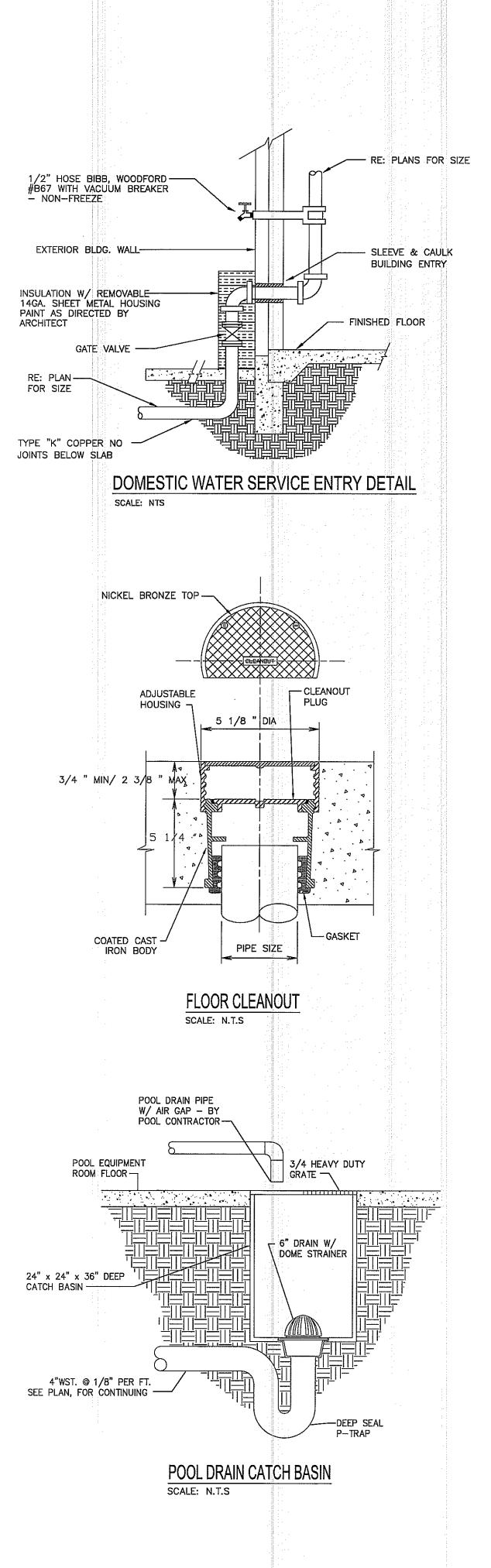


TYPICAL INDIRECT WASTE PIPING TO FLOOR DRAIN/SINK DETAIL



BACKFLOW PREVENTER DETAIL SCALE: N.T.S







JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314

GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999

MEP ENGINEER

WWW.ASEIICORP.COM

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® Marriott®

REVISIONS	
PROJECT NAME	

COURTYARD INN, LAKE CITY, FL.

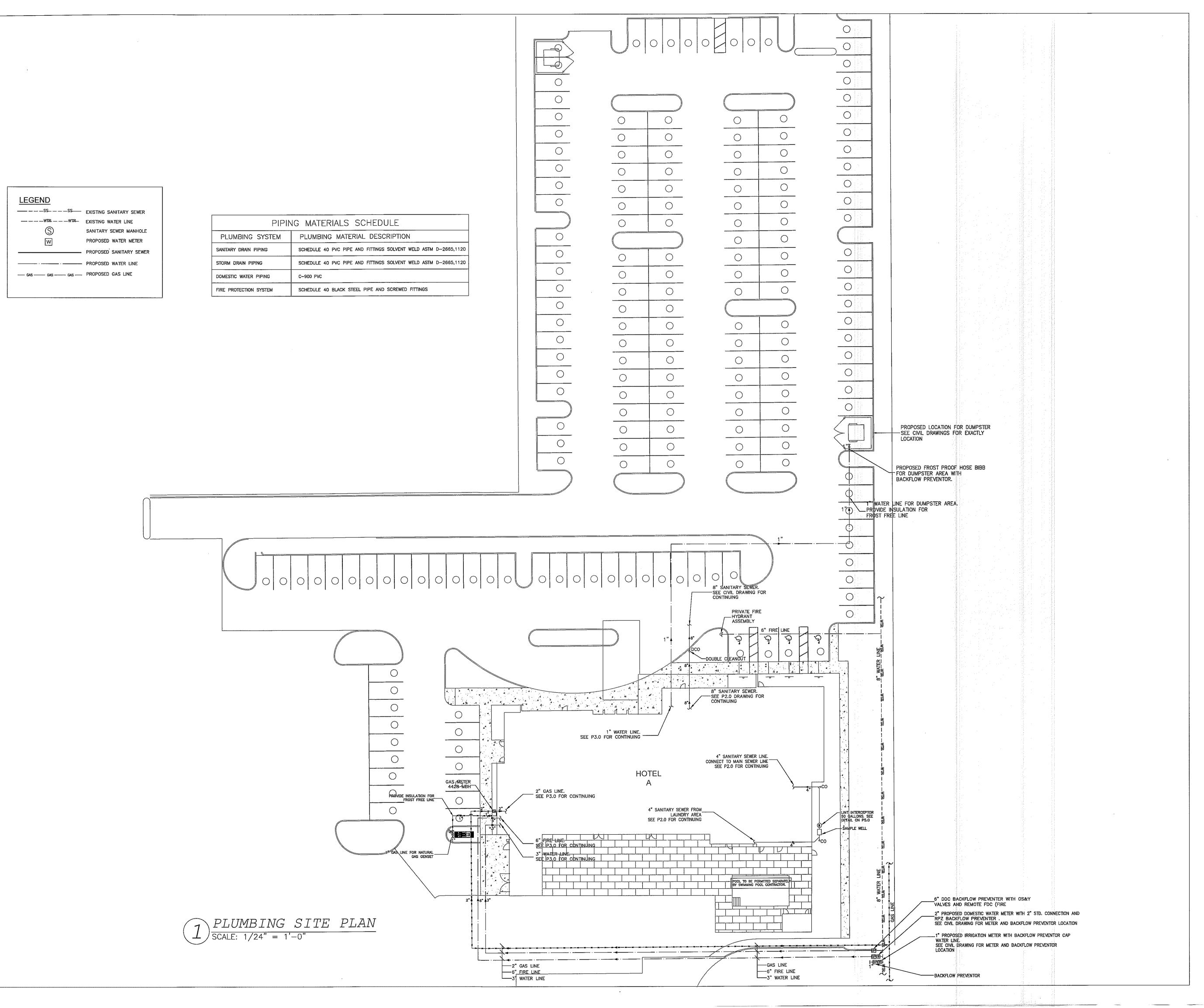
DRAWING NAME

PLUMBING DETAILS

CONTRACTOR COPY

SEAL+SIGNATURE MING D

DATE 01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER DECOR: CYnergy





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407 677 5565

P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Marriott®

REVISI	ONS		
		·	

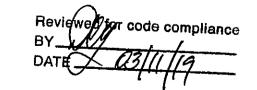
PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

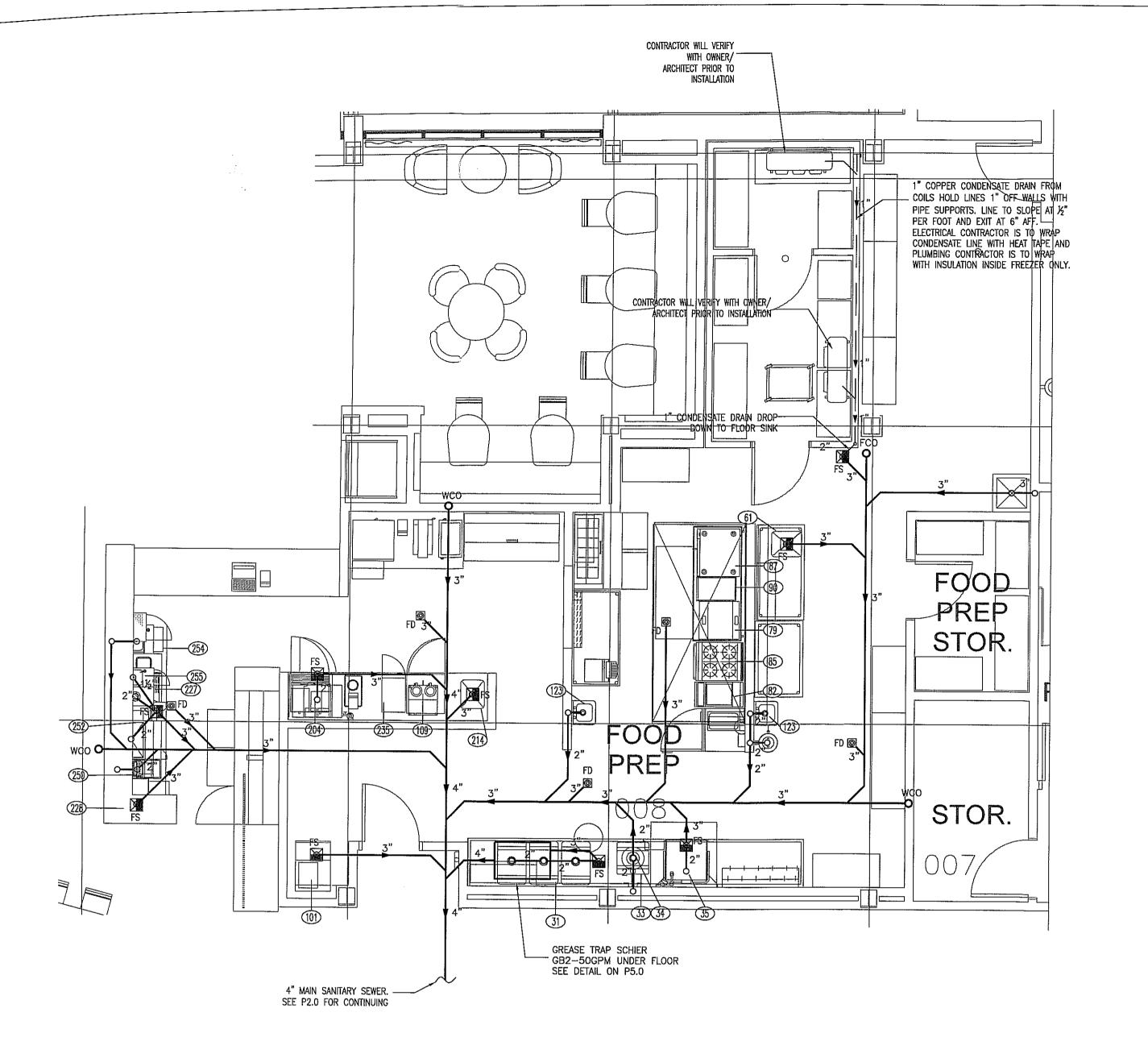
PLUMBING SITE PLAN

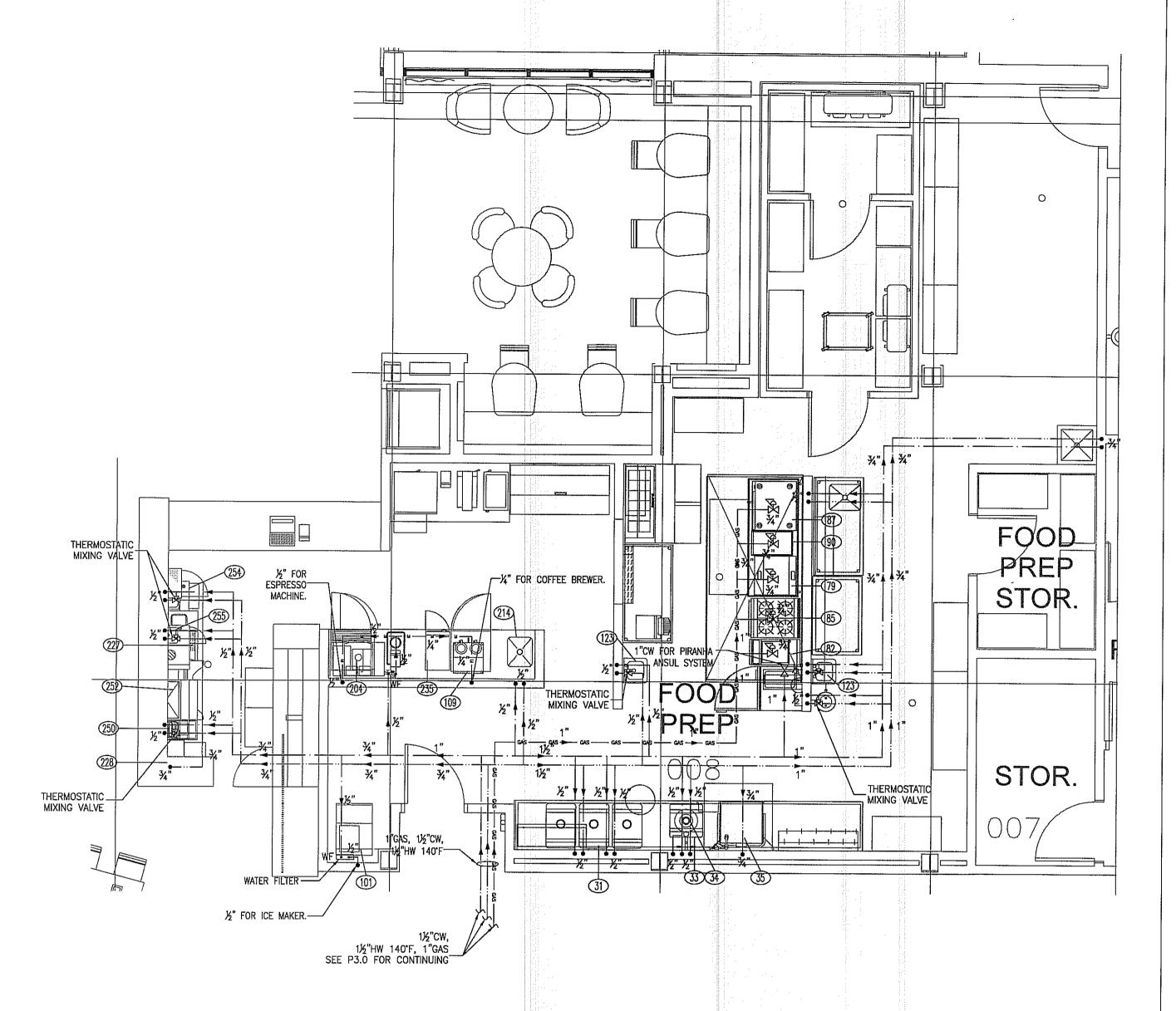
CONTRACTOR COBY



DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnerg

PAGE NUMBER





SANITARY SEWER

KITCHEN AND BAR PLAN

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

255 BAR SINK

	PLL	<u> </u>	<u> </u>	<u> </u>		SCI	-	LDL	JLE	–		
ITEM NO	EQUIPMENT CATEGORY	COLI SIZE	COLD WATER AFF (IN)		HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	МВТОН	GAS AFF (IN)	PLUMBING REMARKS
31	SOILED DISHTABLE W/3-COMP SINK	1/2	12	1/2	12			1-1/2				DRAIN TO FS
33	PRE-RINSE FAUCET	3/4	12	1/2	12							
34	DISPOSER	1/2	*			2	15					*BRANCH FROM #33
35	DISHMACHINE			3/4	12			1-1/2				110° MIN; DRAIN TO FS
61	TABLE - PREP with SINK			1/2	12			1-1/2				DRAIN TO FS
79	COUNTER GRIDDLE								3/4	55	12	
82	GAS FRYER W/SIDE SPLASH								3/4	100	12	
85	4-BURNER RANGE								3/4	143	12	
87	HALF-SIZE CONVECTION OVEN								3/4	25	12	
90	RADIANT BROILER								3/4	40	12	
101	ICE MAKER	1/2	48									DRAIN TO FS
	COFFEE BREWER	1/4	48									
	HAND SINK W/ SIDE SPLASHES	1/2	12	1/2	12	1-1/2	24					
204	ESPRESSO MACHINE W/WATER FILTER	1/2	12					1				DRAIN TO FS
214	DROP-IN SINK	1/2		1/2				1				DRAIN TO FS
227	DRAINBOARD							1-1/2				DRAIN TO FS
228	GLASSWASHER			3/4	12			1-1/2				DRAIN TO FS
250	WET WASTE STATION	1/2	12	1/2	12	1-1/2	24					
252	ICE BIN					_2						DRAIN TO FS
254	HAND SINK	1/2	12	1/2	12	1-1/2	24					
	1											

1/2 12 1/2 12 1-1/2 24 1-1/2

DRAIN TO FS

DOMESTIC WATER
KITCHEN AND BAR PLAN
SCALE: 1/4"=1'-0"

NOTE:

1. INSTALL A THERMOSTATIC MIXING VALVE AT EACH HAND SINK. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR PUBLIC HAND SINK NOT TO EXCEED 110°F. THERMOSTATIC MIXING VALVE FOR HAND SINK: ZURN #ZW1070 ASSE R LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM.

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

J C E R

JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999

MEP ENGINEER

WWW.ASEIICORP.COM

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Narriott®

REVISIONS		 	
		,	
	,		
PROJECT NAME		 l.	

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

ENLARGED KITCHEN PLAN

CONTRACTOR COPY

Reviewed for code compilar
BY 4 03/1/19

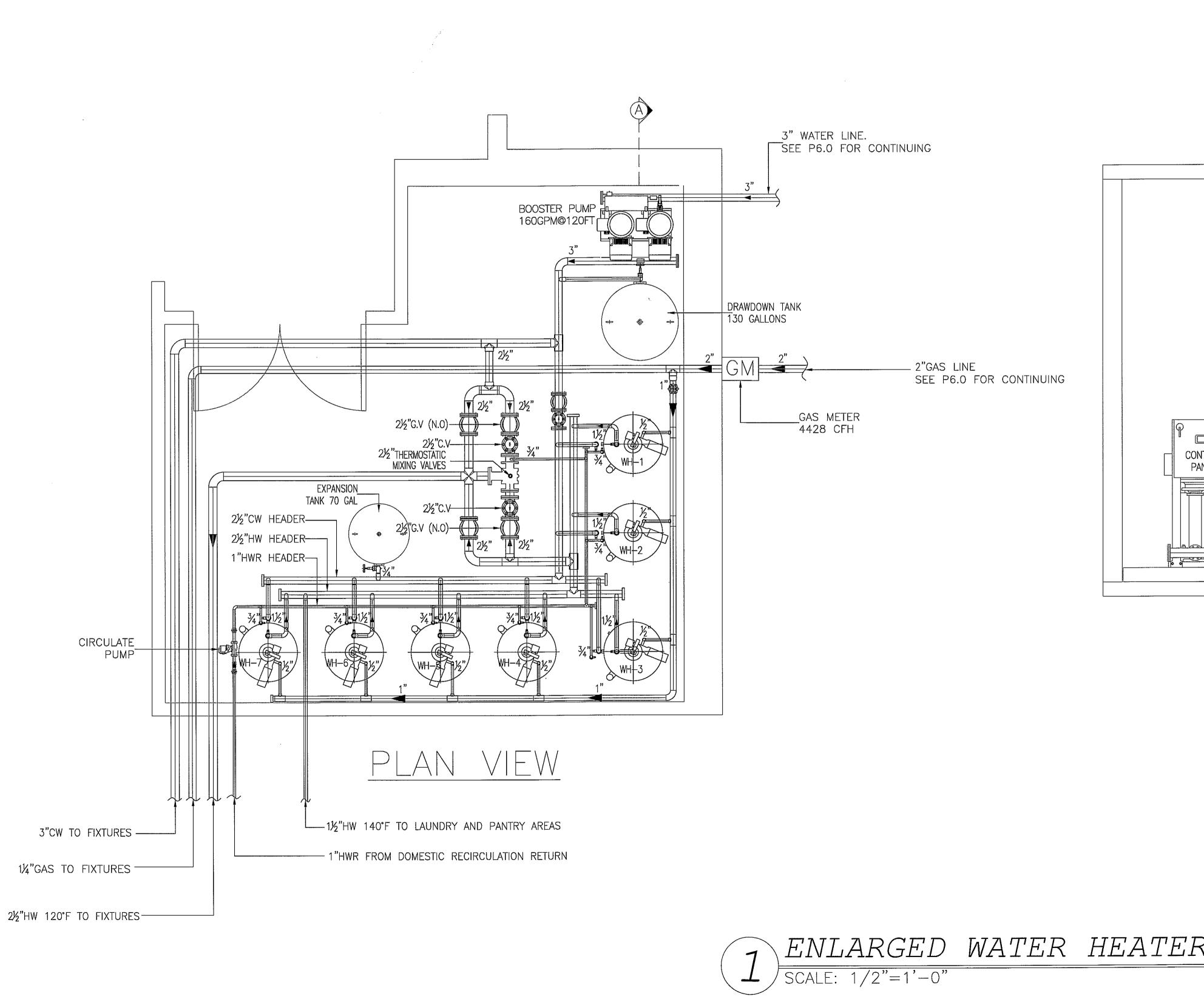
SEAL+SIGNATURE

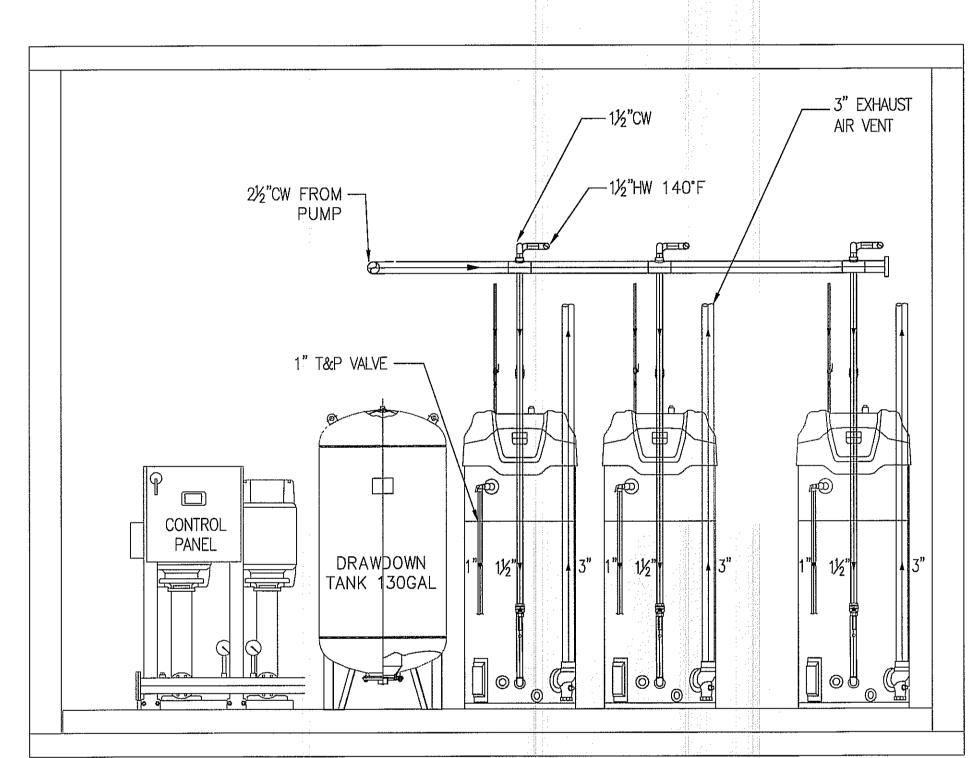
SEAL+SIGNATURE

No. 83005

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnergy

P7.0





VIEW A

1 ENLARGED WATER HEATER ROOM SCALE: 1/2"=1'-0"



JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055 CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350 F: 407.232.6000

WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **X**arrıott₀

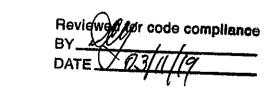
REVI	SIONS		
	,		

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

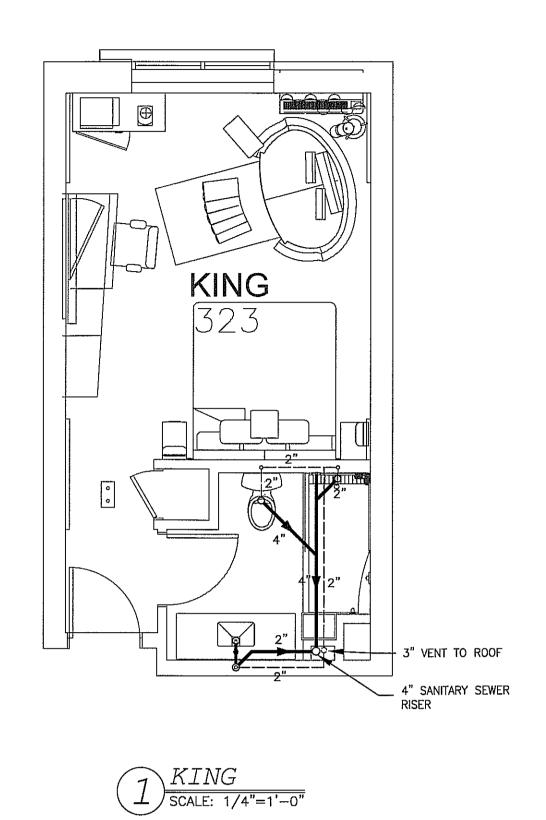
ENLARGED WATER HEATER ROOM

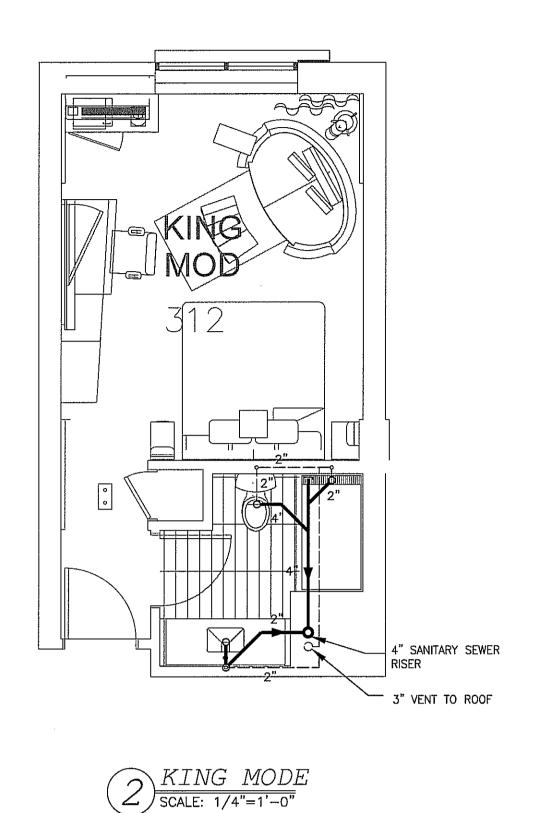
CONTRACTOR COPY

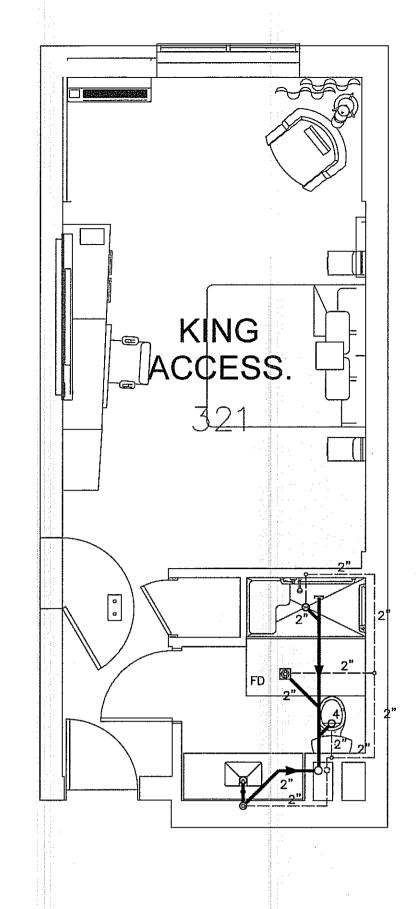


SEAL+SIGNATURE

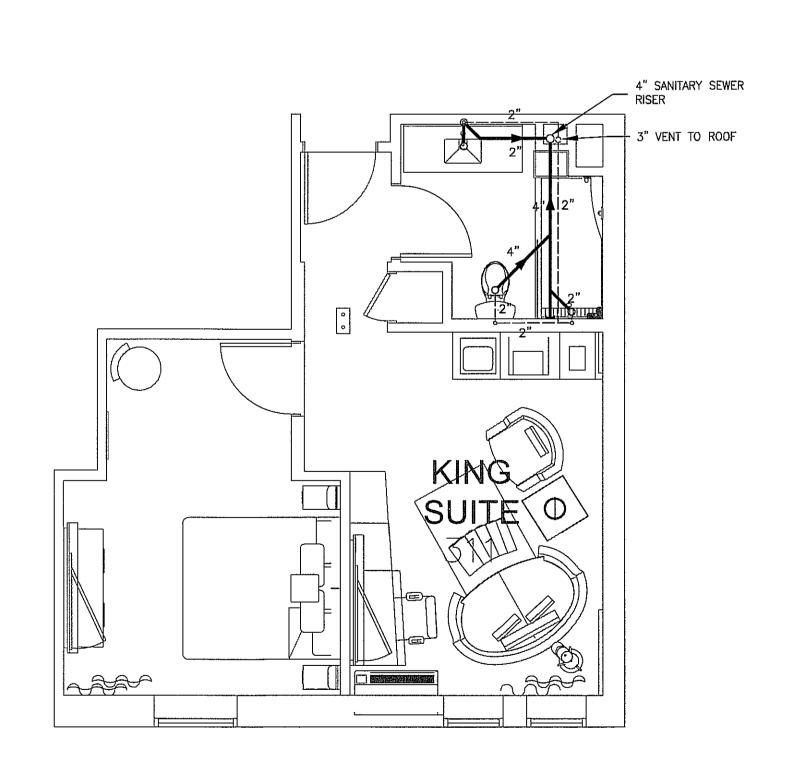
01.18.2019 PROJECT NUMBER 17.282 DRAWING NUMBER



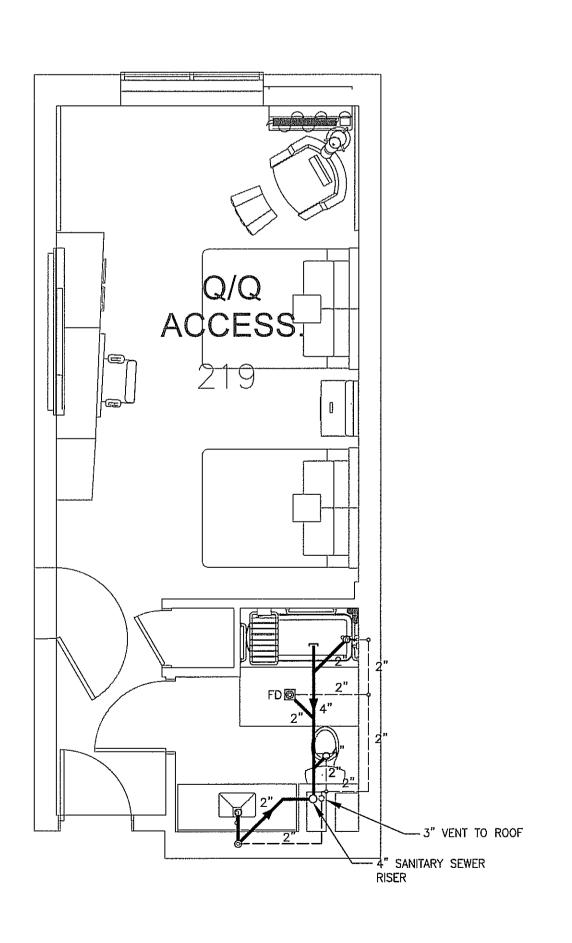




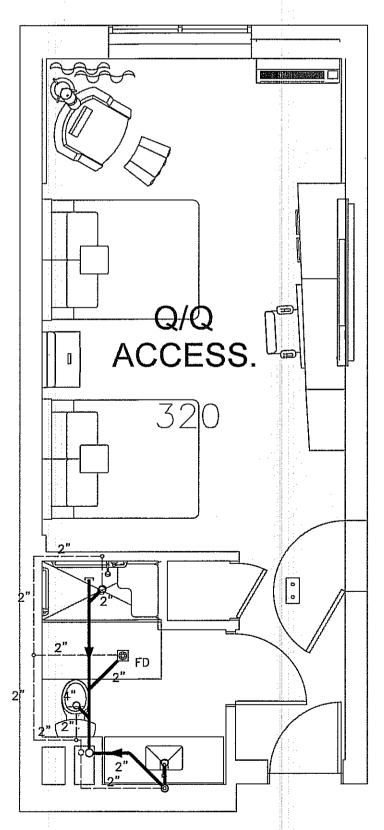


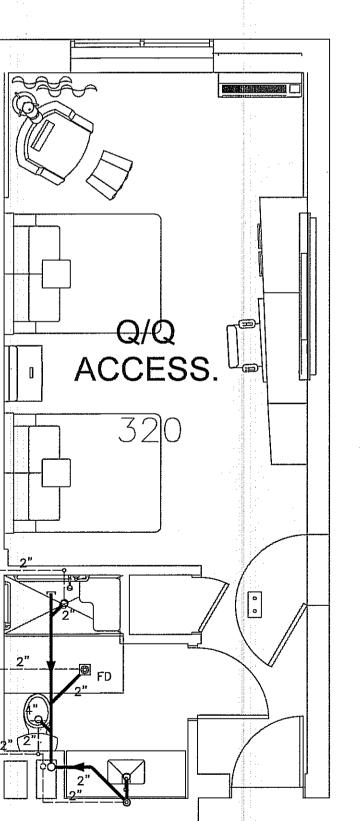


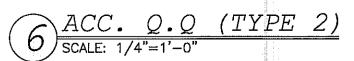
 $4 \frac{KING \ SUITE}{\text{SCALE: 1/4"=1'-0"}}$



5 ACC. Q.Q (TYPE 1)
SCALE: 1/4"=1'-0"









JCER DESIGN CONSULTANTS LLC NEW YORK 325 GOLD STREET, STE 604 BROOKLYN, NY 11201

ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & 5127 S. ORANGE AVE., SUITE 110 ORLAND, FL 32809 P: 407.490.0350 F: 407.232.6000

WWW.RABITS-ARCHITECT.COM STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817

P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **A\arriott**₀

REVISIONS					

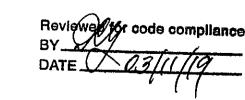
PROJECT NAME

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

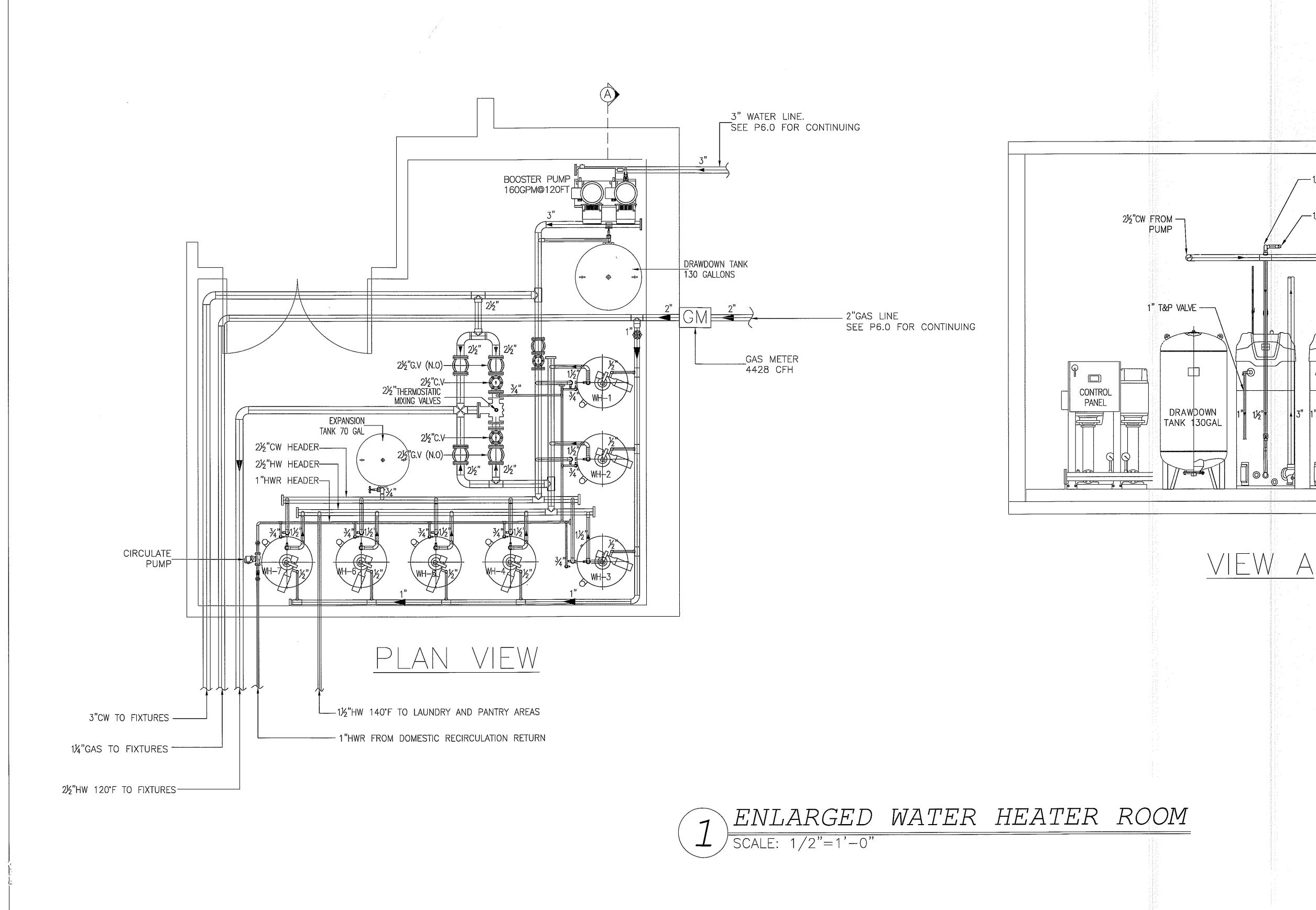
SANITARY SEWER TYPICAL GUESTROOM PLAN

CONTRACTOR COPY



SEAL+SIGNATURE

DATE PROJECT NUMBER 17.282 DRAWING NUMBER





ALL DRAWINGS, SPECIFICATIONS, PLANS, IDEAS, ARRANGEMENTS AND DESIGNS REPRESENTED OR REFERRED TO ARE THE PROPERTY OF JCER DESIGN CONSULTANTS WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE CREATED, EVOLVED, DEVELOPED AND PRODUCED SOLELY FOR USE ON AND IN CONNECTION WITH THIS PROJECT AND MAY NOT BE DISCLOSED OR GIVEN TO OR USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY USE OR PURPOSE WHATSOEVER, EXCEPT UPON WRITTEN PERMISSION AND DIRECTION OF JCER DESIGN CONSULTANTS.

OWNER

MORPHEUS GROUP 404 NW HALL OF FAME DRIVE LAKE CITY, FL 32055

CIVIL ENGINEER

CHRISTOPHER A. GMUER, PE GMUER ENGINEERING, LLC 2603 NW 13TH ST BOX 314 GAINESVILLE, FL 32609

ARCHITECT OF RECORD

RABITS & ROMANO ARCHITECTURE, PLANNING & DESIGN
5127 S. ORANGE AVE., SUITE 110
ORLAND, FL 32809
P: 407.490.0350

F: 407.232.6000 WWW.RABITS-ARCHITECT.COM

STRUCTURAL ENGINEER

ASE ENGINEERING SERVICES, INC.

ASE ENGINEERING SERVICES, INC. 10244 E COLONIAL DR, SUITE202 ORLANDO, FLORIDA 32817 P: 407.677.5565 F: 407.730.2999 WWW.ASEIICORP.COM

MEP ENGINEER

_3" EXHAUST AIR VENT

/—1½"HW 140°F

MEP GREEN DESIGN & BUILD 17047 EL CAMINO REAL, SUITE 211, HOUSTON, TX 77058 P: 281-786-1195 WWW.MEPGREENDESIGNS.COM

COURTYARD® **Alarriott®

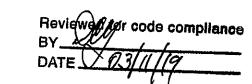
	REVISI	ONS			
PROJECT NAME					

COURTYARD INN, LAKE CITY, FL.

DRAWING NAME

ENLARGED WATER HEATER ROOM

CONTRACTOR COPY



SEAL+SIGNATURE

No. 83005

STATE OF A CONTROL OF A CONTRO

DATE 01.18.2019
PROJECT NUMBER 17.282
DRAWING NUMBER
DECOR: CYnerg

PAGE NUMBER