

THE FOLLOWING NOTES APPLY TO ALL PLUMBING SHEETS:

- ALL EQUIPMENT SHALL BE TESTED AND SEAL UL STAMP.
- ROUTE ALL PIPING PARALLEL TO BUILDING LINES UNLESS OTHERWISE NOTED.
- ALL PIPING SHALL BE CONCEALED ABOVE SUSPENDED CEILING AND IN PLUMBING CHASIS UNLESS NOTED OR INDICATED OTHERWISE. PIPING SHALL BE EXPOSED IN ROOMS WITHOUT CEILING. EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED TO MATCH WALL OR CEILING AS APPROVED BY ARCHITECT/OWNER. THE PAINTING SHALL BE DONE BY THE CONTRACTOR INSTALLING THE PIPING UNLESS OTHERWISE APPROVED BY ARCHITECT.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVES AND OPENINGS REQUIRED TO INSTALL PIPES THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BEAMS AND ROOFS.
- CEILING ACCESS SHALL BE PROVIDED AT ALL VALVES AND OTHER ITEMS REQUIRING SERVICE OR INSPECTION, WHERE ACCESS IS REQUIRED TO SPACE ABOVE INACCESSIBLE CEILING, CEILING ACCESS DOORS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
- COORDINATE WITH OTHER TRADES TO PREVENT CONFLICTS WITH THE INSTALLATION OF PLUMBING WORK. PROVIDE ADEQUATE SPACE FOR EQUIPMENT SERVICING AND COMPONENT REPLACEMENT.
- DOMESTIC DRINKING WATER PIPING SHALL BE COORDINATED WITH OTHER TRADES BEFORE BEING INSTALLED. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ARCHITECTURAL, REFLECTED CEILING PLANS FAILURE TO COORDINATE WORK WILL BE REDONE AT THE EXPENSE OF THE CONTRACTOR.
- SEAL ALL SPACES AROUND PIPING PENETRATIONS OF WALLS AND FLOORS WITH FIRESTOPPING MATERIAL. ALSO SEAL ALL EXTERIOR WALL, AND ROOF PENETRATIONS WATER-TIGHT.
- PROVIDE HOUSEKEEPING PADS BELOW FLOOR MOUNTED EQUIPMENT. PADS ARE TO BE REINFORCED CONCRETE 4" THICK AND 3' BEYOND THE UNIT LEGS IN ALL DIRECTIONS.
- PROVIDE SLEEVES WHERE NEEDED FOR PLUMBING WORK. COORDINATE LOCATION OF SLEEVES AND HOLD OUTS REQUIRED WITH THE GENERAL CONTRACTOR PRIOR TO SETTING OF FORMS, WALLS AND OTHER STRUCTURAL MEMBERS.
- PROVIDE OFFSETS AND TRANSITIONS AS MAY BE REQUIRED TO INSTALL PIPING. INSTALL PIPING WITHIN THE JOIST SPACE WHERE REQUIRED TO PERMIT INSTALLATION OF ALL WORK AND ALLOWANCES FOR WORK OF OTHER TRADES.
- CUTTING, DEMOLITION, AND PATCHING OF WALLS, FLOOR, AND REMOVAL AND REPLACEMENT OF CEILING, REQUIRED TO INSTALL PLUMBING, ARE TO BE COORDINATED BY, AND PAID FOR BY THE PLUMBING CONTRACTOR.
- THIS CONTRACTOR SHALL PROVIDE COMPLETE FIRE CAULKING FOR ALL WALL, FLOOR AND CEILING PENETRATIONS.
- AFTER FINISHING THE DOMESTIC WATER PIPING, THE PIPING SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING AT LEAST 200 PPM OF CHLORINE AND THE SYSTEM ALLOWED TO STAND FOR THREE HOURS.
- DOMESTIC WATER SERVICE PIPING SHALL BE THOROUGHLY FLUSHED AND TESTED WITH 125 PSIG HYDROSTATIC TEST FOR EIGHT (8) HOURS MINIMUM, IN ACCORDANCE WITH ALL STATE, NATIONAL AND LOCAL PLUMBING CODES.
- SANITARY SEWER AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH STATE, NATIONAL, AND LOCAL PLUMBING CODES. ALL POINTS SHALL BE FLUSHED AND FILLED WITH WATER TO UPSTREAM OUTLET. SYSTEM SHALL STAND FULL OF WATER FOR 24 HOURS OR BE TESTED WITH A 5 PSI AIR TEST FOR 15 MINUTES WITH NO INDICATION OF LEAKS.
- NO DOUBLE WYE DRAINAGE FITTINGS SHALL BE USED IN THE HORIZONTAL POSITION.
- GATE VALVES AND CHECK VALVES ON PUMP PUMPS AND SEWAGE EJECTORS SHALL BE INSTALLED ABOVE THE Sumps.
- A FULL SIZE VENT STACK (3" MINIMUM) SHALL BE PROVIDED CONTINUOUS FROM ITS BASE THROUGH THE ROOF TERMINAL. THIS VENT SHALL BE THE MOST REMOTE STACK FROM THE LOCATION WHERE THE BUILDING DRAIN LEAVES THE BUILDING.
- FIXTURE DRAIN LINES MUST CONNECT TO THE VERTICAL SANITARY DRAIN WITH A TEE CONNECTION RATHER THAN A WYE CONNECTION.
- ABOVE GRADE HORIZONTAL RUNS OF PLASTIC WASTE AND VENT PIPE CANNOT EXCEED 35 FEET IN TOTAL LENGTH ABOVE GRADE VERTICAL STACKS CONSTRUCTED OF PLASTIC PIPE MAY EXCEED 15 FEET IN TOTAL HEIGHT ONLY IF AN APPROVED EXPANSION JOINT IS USED.
- SOLVENT WELD JOINTS IN PVC AND CPVC PIPE MUST INCLUDE USE OF A PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT.
- ROUGH-IN FOR AND CONNECT HOT AND COLD WATER, WASTE AND VENT TO ALL FIXTURES AND EQUIPMENT FURNISHED BY OTHERS SUCH AS ICE MACHINES, WASHERS ETC. THIS CONTRACTOR IS RESPONSIBLE FOR VERIFYING FACT REQUIREMENTS AND LOCATIONS AND FOR PROVIDING ALL TRAPS, TAPVALVES, VALVES AND SUBSTITUTION OF EQUIPMENT.
- REFER TO FLOOR PLANS FOR MAIN SIZES NOT SHOWN ON HOT AND COLD WATER AND WASTE AND VENT PIPING DIAGRAMS.
- RUBBER ROOFING SHALL BE REPAIRED BY A CERTIFIED INSTALLER SO THAT ROOFING WARRANTY IS NOT VOIDED.
- PLUMBING SHALL BE IN STRICT ACCORDANCE TO ALL STATE AND THE 2017 FLORIDA BUILDING CODE.
- THIS SET OF DRAWINGS COMPRISE THE CONTRACT DOCUMENTS FOR THIS PROJECT AND AS SUCH EACH DISCIPLINE'S DRAWING SHALL ADOPT THE MECHANICAL, ELECTRICAL, CIVIL, AND SPECIALTIES SHALL BE REFERRED TO AND COORDINATE WITH EACH OTHER. IF CONFLICTS ARE NOTED BETWEEN THE DISCIPLINES THEY ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION AND BE RESOLVED. IT IS ESPECIALLY IMPORTANT TO REFERENCE AND COORDINATE WITH THE ARCHITECTURAL DRAWINGS.
- SINGLE STACK ABRA FOR SYSTEMS (PROVENT & SOVENT) WILL BE ACCEPTED AS ALTERNATE SEWER SYSTEMS WHERE AUTHORITY HAVING JURISDICTION OVER SUCH SYSTEMS CONTRACTOR SHALL COORDINATE WITH EACH DISCIPLINE AND MEET ALL REQUIREMENTS TO INSTALL THESE SYSTEMS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

MECHANICAL RESPONSIBILITY MATRIX			
DIVISION	BY OTHERS	OWNER PROVIDED	MC PROVIDED
		INSTALLED	INSTALLED
21 - PLUMBING			
FLUSHING VALVES			X
PLUMBING INSULATION			X
DOMESTIC WATER PIPING			X
DOMESTIC WATER PIPING SPECIALTIES			X
DOMESTIC WATER PUMPS		X	
DOMESTIC WATER PRESSURE BOOSTERS		X	
SANITARY WASTE AND VENT PIPING			X
SANITARY WASTE AND VENT SPECIALTIES			X
SANITARY DRAINS - FLOOR DRAINS AND FLOOR SINKS			X
SANITARY WASTE INTERCEPTORS - GREASE			X
PLUMBING FIXTURE ACCESSORIES (GRAB BARS, CURTAIN RODS, ETC)		X	
WATER SOFTENERS			X
HOT WATER HEATERS			X
FLUSHING FIXTURES			X
EMERGENCY FLUSHING FIXTURES			X
PRESSURE WATER COOLERS			X
HOT WATER MIXING STATIONS		X	
DIVISION 23 - MECHANICAL			
TESTING, ADJUSTING AND BALANCING			X
DUCT INSULATION			X
NATURAL GAS PIPING			X
REFRIGERANT PIPING			X
METAL DUCTS			X
DUCTWORK ACCESSORIES			X
POWER VENTILATORS - BATHROOM EXHAUST FANS			X
POWER VENTILATORS - GENERAL EXHAUST			X
DIFFUSERS, REGISTERS, AND GRILLES			X
GRAVITY HOODS AND VENTILATORS			X
ETIC LANTENS		X	
VERDANT THERMOSTATS FOR FTAC UNITS FOR ENERGY MANAGEMENT		X	
DOAS ROOFTOP UNITS			X
SPLIT SYSTEM AIR CONDITIONING - MINI SPLIT			X
COMBUSTION ROOM AIR CONDITIONING UNITS			X
FAN COILS / FURNACES & SPLIT SYSTEM AIR CONDITIONERS & HEAT PUMPS			X

AUTOMATIC SPRINKLER GENERAL NOTES

- PIPING SHALL BE SLOPED SO THAT ALL PIPING CAN BE DRAINED. ALL LOW POINTS WILL BE DRAINED WITH A HOSE CONNECTION.
- COORDINATE PIPING WITH SHELVEING, CABINETS, ETC.
- REMOVE ALL EXCESS MATERIAL FROM SITE DAILY.
- WHERE HEADS AND PIPING ARE EXPOSED, PIPING SHALL BE PAINTED OR CHROMIUM PLATED TO MATCH THE SURROUNDING DECOR.
- PIPE WALL PENETRATIONS SHALL BE FIRE CAULKED AND EXPOSED PIPING SHALL BE ESCOULCHONED ON THE FINISHED SIDE OF WALL.
- ALL PIPING SHALL BE CONCEALED IN ROOMS WHICH HAVE CEILING.
- MINIMUM SYSTEM REQUIREMENTS, MATERIALS AND PIPE SIZES SHALL BE DETERMINED IN ACCORDANCE WITH THE LATEST EDITION TO STATE AND NATIONAL FIRE PROTECTION CODES.
- MECHANICAL ROOMS SHALL BE DESIGNED AS OPEN HAZARD ZONE.
- THE CONTRACTOR SHALL ALLOW A SAFETY FACTOR OF 1.0.
- THE WATER VELOCITY IN THE PIPES SHALL NOT EXCEED 10 FT/SEC.
- THE CONTRACTOR SHALL ARRANGE FOR A FIRE HYDRANT TEST. THIS SHALL INCLUDE THE HIGH POINT FLOW TEST INFORMATION IN THE SHOP DRAWINGS. THE ELEVATION OF THE GAUGE SHALL BE RELATIVE TO THE BUILDING FINISH FLOOR SHALL BE INCLUDED.
- SHOP DRAWINGS AND AS BUILT DRAWINGS FOR THE FIRE PROTECTION SYSTEM SHALL BE PLOTTED FROM FULL SCALE AUTO CAD-GENERATED DWG FORMAT. FLOOR PLANS SHALL BE PLOTTED AT 1/8" OR 1/4" INCH PER FOOT.
- A LICENSED FIRE PROTECTION ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT AND HYDRAULIC CALCULATIONS FOR WET AND DRY SPRINKLER SYSTEMS.
- SPRINKLER PIPING AND EQUIPMENT SHALL BE LAID OUT BY EITHER A REGISTERED ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND PROFICIENT IN PIPE FITTING OR DESIGN ON A NICET LEVEL PROFESSIONER.
- PROVIDE HYDRAULIC DESIGN AND TYPICAL DRINKS, TEST CONNECTIONS, CONTROL VALVES, RISERS SUPPLYING HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS. EACH ALARM LABEL VALVES NORMALLY OPEN (NO) OR NORMALLY CLOSED (NC).
- OPEN FIRE SPRINKLER PIPE SHALL BE ALLOWED.
- THE PROTECTION SYSTEM FOR THIS PROJECT SHALL BE A NFPA 13 SYSTEM. SUBMIT A HYDRAULICALLY DESIGNED SYSTEM WITH THE LAYOUT HEADS AND TYPICAL DRINKS. THE PROTECTION SYSTEM SHALL BE PLOTTED FROM FULL SCALE AUTO CAD-GENERATED DWG FORMAT. FLOOR PLANS SHALL BE PLOTTED AT 1/8" OR 1/4" INCH PER FOOT.
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- ALL SPRINKLER HEADS ARE TO BE THE "CONCEALED" TYPE.

SERVICE	PIPE MATERIALS	FITTING MATERIALS	JOINT	FLANGE	INSULATION	FITTING INSULATION				VAPOR BARRIER	REMARKS	
						PIPE SIZE	THICKNESS	INSULATION JACKET	HITTING COVER			
DOMESTIC WATER ABOVE GRADE	TYPE 1 HARD COPPER ASTM B88 CPVC PIPE ASTM F442 41M SCHEDULE 40	WROUGHT COPPER, CAST BRASS, CAST BRONZE CPVC SOCKET FITTING ASTM F48	955 SOLDER 125 PSI COPPER	125 PSI COPPER	FIBERGLASS	1/2" TO 4"	1/2"	ALL SERVICE	PVC	CW-YES HW-NO	2" PIPE SIZE AND LESS	
DOMESTIC WATER BURIED	TYPE K ANNEALED COPPER	BRONZE OR CAST BRASS	FLARED OR 110P SOLDER	125 PSI BRASS OR BRONZE	N/A	N/A	N/A	N/A	N/A	N/A	3" MINIMUM COVER	
SANITARY DRAINAGE AND VENT ABOVE GRADE	CAST IRON SERVICE WEIGHT ASTM A153 CHSE 15-47 PVC SCHEDULE 40 D2665 & D178 (4-2") PVC SCHEDULE 40 D2665 & D178 (14-2")	CAST IRON WROUGHT COPPER CAST BRONZE	NO HUB MEANS WITH STAINLESS STEEL BANDS SOLVENT WELDED	N/A	FIBERGLASS	ALL SIZES	1"	ALL SERVICE	PVC	YES	INSULATE FIRST 10 FEET OF VENT FROM OUTDOORS NOT USE IN PLUMBAS MINIMUM COVER 4"	
SANITARY DRAINAGE AND VENT BELOW GRADE	TYPE M COPPER PVC SCHED. 40	WROUGHT COPPER CAST BRONZE	50/50 SOLDER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2" MACHINE DRAINS SHALL BE INSULATED W/ELASTOMERIC (COMPLY W/ASTM C534 OR ASTM C522) NOT USABLE AS VENT DRAINS	
NATURAL GAS (ABOVE GRADE)	BLACK STEEL SCHED. 40 A-53 CORRUGATED STAINLESS STEEL TUBING	2" 78.5 SMALLER BORE FORGED STEEL, SCHED. 40 COPPER ALLOY MECHANICAL ASME B1.21	THREADED TO 1 1/2" WELDED 2" AND LARGER THREADED TO 1" AND SMALLER	125 PSI SULFON	N/A	N/A	N/A	N/A	N/A	N/A	ALL PIPING IN CONFINED SPACES SUCH AS WALLS SHALL BE WELDED.	

FIXTURE TAG	RTR PRODUCT #	FIXTURE	MANUFACTURER	MODEL	ADA (Y/N)	FLOW	CONNECTION SIZE				REMARKS
							W	V	HW	CW	
WC-1	P94	WATER CLOSET FLOOR MTD (FT) ADA	NAGARA		YES	0.8 GPM	3"	2"	0"	12"	0.8 GALLONS PER FLUSH (GPF); REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
BT-1	P40 & P42 & TL34	BATH TUB	STERLING		NO	2 GPM	2"	2"	12"	12"	INTEGRAL APRON, 60"x30"x14"; REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
BT-2	P4 & P45 & TL32	BATH TUB	STERLING		YES	2 GPM	2"	2"	12"	12"	SEE ARCHITECTURAL FOR DETAILS, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
L-1	P91 & P92	LAVATORY UNDERCOUNTER ADA	DAKOTA		YES	1 GPM	2"	1 1/2"	10"	12"	SINGLE HANDLE LAVATORY FAUCET - METAL POP-UP, OVERFLOW ASSEMBLY, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
L-2	P20 & P21	LAVATORY WALL HUNG ADA	KOHLER		YES	1 GPM	1.12"	1.12"	10"	12"	ELECTRONIC SENSOR OPERATED GRID DRAIN, PROVIDE W/STAINLESS THERMOSTATIC MIXING VALVE; REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
MB-1	TR2 & TR3	SERVICE SINK	ZURN			3 GPM	3"	3"	34"	34"	CHICAGO 8797C FAUCET, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
LT-1	P15	LAUNDRY TUB	EL MUSTEE		NO	2 GPM	2"	1 1/2"	34"	34"	FAUCET FURNISHED WITH OVERFLOW GRATE, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
S-1	P30 & P31	SINK UNDERMOUNT	DAKOTA		NO	1.5 GPM	2"	1 1/2"	10"	12"	1/2" GAS S.S. TYPE 302 BASIN WITH OVERFLOW GRATE, CLEAN, AND GOOSENECK SPOUT. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
S-2	P30 & P31B	SINK UNDERMOUNT	ELKAY		YES	1.5 GPM	2"	1 1/2"	10"	12"	1/2" GAS S.S. TYPE 302 BASIN WITH OVERFLOW GRATE, CLEAN, AND GOOSENECK SPOUT. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
S-3	P10 & P11	3 COMP SINK	ELKAY			1.5 GPM	2"	1 1/2"	10"	12"	1/2" GAS S.S. TYPE 302 BASIN WITH OVERFLOW GRATE, CLEAN, AND GOOSENECK SPOUT. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
S-4	P12	SINGLE COMP SINK	JUST		NO	1.5 GPM	2"	1 1/2"	10"	12"	1/2" GAS S.S. TYPE 302 BASIN WITH OVERFLOW GRATE, CLEAN, AND GOOSENECK SPOUT. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
SB-1	P35 & P44 & TL31	SHOWER	STERLING		NO	2 GPM	2"	2"	11"	11"	SEE ARCHITECTURAL FOR DETAILS, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
SB-2	P4 & P40 & TL31	SHOWER	STERLING		YES	2 GPM	2"	2"	12"	12"	SEE ARCHITECTURAL FOR DETAILS, REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
FD-1		FLOOR DRAIN	JOSAM	3100PQ		0	2"	2"			FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
FD-2		FLOOR DRAIN	JOSAM			0	3"	2"			FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
FD-3		LAUNDRY FLOOR DRAIN	ZURN	Z415		0	4"	2"			FURNISH WITH DOME GRATE AND TYPE G STRAINER AND ALLUM. BSKT. BKT. STR.
FS-1		FLOOR SINK	JR SMITH	1420		0	3"	2"			FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
WF-1		WASHER FITTING	GLY GRAY			0	2"	1 1/2"	34"	34"	FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
EW-1	P14	EMERGENCY EYE WASH	BRADLEY			N/A	2"	1 1/2"	10"	12"	FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
WCO		FLOOR CLEANOUT	JOSAM	5890		0					FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
FCO		FLOOR CLEANOUT	JOSAM	5500-1		0					FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
COTG		EXTERIOR CLEANOUT	JOSAM	5860		0					FURNISH WITH NAVIGATOR 519-2000 EXX8 EMERGENCY THERMOSTATIC MIX VALVE. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
HYD-1		W/ HYDRANT W/ FREEZE	WOODWOOD	67C		2.5 GPM				34"	MOUNT 2" AFF TO BOTTOM OF HYDRANT
HYD-2		W/ HYDRANT W/ FREEZE	WOODWOOD	RHY-3MS		N/A				1"	DUAL LEVEL, FURNISH WITH BOTTLE FILLING STATION AND WATER FILTER. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
WC-1	P23	ELECTRIC WATER COOLER	HALSBY TAYLOR	HTBB-HACW98	YES	8 GPM	2"	1 1/4"		12"	DUAL LEVEL, FURNISH WITH BOTTLE FILLING STATION AND WATER FILTER. REFER TO SHEETS AT-06 - AT-07 FOR RESPONSIBILITY MATRIX & RTR PRODUCT P.S.
HS-1	P13	HANDSINK	DAKOTA	25010			3"				PROVIDE W/ WALL FLANGE/OUTLET AS REQUIRED

PRICING ON FIXTURES FURNISHED BY SUPPLYWORKS CONTACT:
DOM BIERLEIN (NATIONAL ACCOUNT MANAGER)
 1.800.476.5830 (EXT. 177404) (OFFICE)
 904.248.8347 (MOBILE)

FIXTURE	WATER AND SEWER DEMANDS				WATER PRESSURE			
	NO. FIXTURES	TOTAL UNITS	CWU	HWU	TOTAL HWU	TOTAL	TOTAL WSPU	
FRYTRK								
BATHROOM GROUPS	124	6	144	5	620	2.5	310	
SINKS	124	1	124	1	124	1	124	
PUBLIC WATER CLOSET (FLUSH TANK)	2	6	12	6.5	13	0	6.5	
LAVATORY	2	1	2	0.5	1	0.5	1	
EMPLOYEE LOUNGE SINK	1	1	1	0.5	0.5	0.5	0.5	
HAND SINK	1	1	1	0.5	0.5	0.5	0.5	
COMMERCIAL CLOTHES WASHER	2	2	6	12	12	20	40	
RESIDENTIAL CLOTHES WASHER	4	4	16	2	8	2	8	
3-COMPARTMENT SINK	1	1	3	3	2	2	2	
ICE MAKER	1	0.5	0.5	0.5	0	0	0.5	
MOP BASIN	1	3	3	2	2	2	2	
EMERGENCY EYE WASH	1	6.5	6.5	0.5	0.5	0.5	0.5	
WALL HYDRANTS	7	2.5	17.5	4	28	0	4	
FLOOR DRAINS	8	3	24	0	0	0	0	
1" FLOOR SINK	2	4	8	0	0	0	0	
TOTALS	2	4	8	0	0	0	0	
TOTALS	2	4	8	0	820	0	488.5	

CALCULATIONS BASED UPON 2017 FLORIDA BUILDING CODE
 BUILDING TOTALS
 993.5 DFU = 1093.5 DFU DRAIN TO SANITARY SYSTEM
 790 W.S.F.U. = 180 GPM PROBABLE PEAK DEMAND + 45 GPM FOR CLOTHES WASHERS

WATER PRESSURE CALCULATION	
80	80 TO 85 PSI STEEP PRESSURE (140 MAX. PROBABLE DEMAND)
-1	1 PSI THRU 4" TAP
-0.5	0.5 PSI FRICTION LOSS FROM MAIN TO METER
-12	12 PSI THRU 1/2" WATER METER
-16	16 PSI THRU 1/2" RISE TYPE BACKFLOW PREVENTER
-7	7 PSI FRICTION LOSS FROM METER TO BUILDING
-15	15 PSI THRU WATER SOFTENER
-20	20 PSI IN VERTICAL HEAD LOSS
-9	9 PSI FOR BUILDING PIPING LOSSES (SIZE PIPE FOR 3 PSI MAX. LOSS PER 100' OF PIPE WITH 300' OF PIPE FROM METER TO HIGHEST/ARTTEST FIXTURE).
-0.5	20 PSI MIN AT REMOTE FIXTURE
-20	20 PSI MIN AT REMOTE FIXTURE
-3	DRIP THROUGH BOOSTER PUMP
25.5	TOTAL ADJUSTED BOOSTER PUMP PSI REQUIRED

ROOF DRAIN CALCULATION (BASED ON 4.5" HR.)			
TAG	ROOF SQUARE FOOTAGE	VERTICAL PIPE SIZE	SCUPPER SIZE
AREA A	2650	4"	8" x 12"
AREA B	1460	4"	8" x 12"
AREA C	282	4"	8" x 12"
AREA D	2712	4"	8" x 12"
AREA E	142	2"	8" x 12"
TOTAL ROOF AREA	13,099		

REFERENCE SHEET W12 FOR ROOF HOODS AND ARCHITECTURAL FOR PRIMARY AND OVERFLOW SCUPPER LOCATIONS.
 NOTES:
 THE PIPE SIZES ARE SHOWN FOR ROUND PIPING. SQUARE PIPING SHALL BE SIZED TO ENCLOSE IT EQUIVALENT ROUND PIPE. RECTANGULAR PIPE SHALL HAVE NOT LESS THAN THE SAME CROSS SECTIONAL AREA AS ITS EQUIVALENT ROUND PIPE, EXCEPT THAT THE RATIO OF ITS SIDE DIMENSION SHALL NOT EXCEED 3 TO 1.

