

FICTURE SCHEDULE									
ITEM FIXTURE GOOD		HOT WATER	WASTE	WASTE	STORM DRAIN	DESCRIPTION			
(WC)	WATER CLOSET	1/2"	_	3"	2"	_	1.28 GALLONS/FLUSH SELECTION TBD BY OWNER		
LAVATORY 1/2			1/2"	2"	1-1/2"	_	2.2 GPM, FAUCET SELECITION TBD BY OWNER		
BT	BATHTUB	1/2"	1/2"	2"	1-1/2"	_	1.8 GPM, SELECTION TBD BY OWNER		
SH	SHOWER	1/2"	1/2"	2"	1-1/2"	_	1.8 GPM, SELECTION TBD BY OWNER		
(KS)	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"	_	1.8GPM@60 PSI, SELECTION TBD BY OWNER		
(SK)	SINK	1/2"	1/2"	2"	1-1/2"	_	1.8GPM@60 PSI, SELECTION TBD BY OWNER		
HB	HOSE BIBB	1/2"	_	_	_	_	ACORN NO.8120 WALL MOUNTED WITH ATMOSPHERIC VACUUM BREAKER		

	PIPE INSULA	FION SCHEDUL	_E		
SERVICE	MATERIAL	THICKNESS	FIELD APPLIED JACKET		
DOMESCTIC COLD WATER AND CONDENSATE DRAINS	MINERAL-FIBER WITH JACKET	ALL SIZES 1/2"	NONE		
DOMESTIC HOT WATER WITHIN THE UNITS (NON- RECIRCULATED)	MINERAL-FIBER WITH JACKET	RUNOUTS: 1/2" 1/2" - 2" PIPE: 1"	NONE		
DOMESCTIC , HÓT AND RECIRCULATED WATER OPERATING TEMPERATURE: 105 TO 140 DEG F.	MINERAL-FIBER WITH JACKET	RUNOUTS: 1/2" 1/2" - 2" PIPE: 1" 2" - 6" PIPE: 1-1/2"	NONE		
HORIZONTAL RAINWATER CONDUCTORS	MINERAL-FIBER OR CELLULAR GLASS, WITH JACKET	ALL SIZES 1/2"	FOIL AND PAPER		
ROOF DRAIN BODIES	MINERAL-FIBER OR CELLULAR GLASS, WITH JACKET	1"	NONE		
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FIXTURES FOR THE DISABLED.	"LAV - GUARD" AS MANUFACTURE BY TRUEBRO	N/A	PVC P-TRAP AND SUPPLY COVER		

GAS CALCULATIONS FOR PLAN (ADU)								
APPLIANCE	QTY	GAS USAGE	TOTAL GAS					
AFFLIANCL	311	(BTUh)	USAGE (BTUh)					
WATER HEATER	1	200k	200k					
RANGE	1	65k	65k					
STOVE	1	65k	65k					
CLOTHES DRYER	1	35k	35k					
TOTAL GAS DEMAND			365k					

- 1. APPLIANCE GAS USAGE BASED ON 2019 CPC TABLE 12-1 OR CATALOG.
- 2. REFER TO GAS DIAGRAM FOR LONGEST DEVELOPED PIPE LENGTH AND PIPE SIZES.

FIXTURE UNT CALCULATIONS PLAN FOR (ADU)									
		DEMAND WEIGHT IN WSFYU1					DRAINAGE		
FIXTURE TYPE		COLD2	НОТ2	FIXTURE DEMAND	TOTAL COLD WATER	TOTAL HOT WATER	TOTAL DEMAND	DFU	TOTAL
WATER CLOSET, 1.6 GPF	2	2.5	0	2.5	5	0	5	3	6
BATHTUB OR TUB-SHOWER COMBO	2	3	3	4	6	6	8	2	4
LAVATORY	3	1	1	1	3	3	3	1	3
CLOTHES WASHER	1	3	3	4	3	3	4	2	2
DISWASHER	1	1.5	1.5	1.5	1	1.5	1.5	2	2
KITCHEN SINK	1	1.5	1.5	1.5	1.5	1.5	1.5	2	2
LAUNDRY SINK	0	1.5	1.5	1.5	-	-	-	2	-
HOSE BIB	0	2.5	0	2.5	-	-	-	0	-
TOTAL FIXTURE UNITS	20	15	23		19				
EQUIVALENT WATER DEMAND IN GPM3	19.6	17.5	21.5						
OTHER REQUIRED WATER OUTLETS I	0	0	0						
TOTAL WATER DEMAND IN GPM	19.6	17.5	21.5						
REQUIRED MINIMUM PIPE SIZE4	1"	1"	1"		4"				

- 1. FIXTURE UNITS ARE BASE ON 2019 CPC TABLE 610,3 FOR WATER AND TABLE 702.1 FOR DRAINAGE.
- 2. THE SEPARATE COLD WATER AND HOT WATER FIXTURE UNITS ARE TAKEN AS THREE-QUARTER (3/4) OF TOTAL FIXTURE DEMAND, PER 2019 CPC TABLE 610.3, NOTE 3.
- 3. GPM EQUIVALENTS ARE BASED ON 2019 CPC CHART A103.1.
- 4. PIPE SIZE ARE BASED ON 2019 CPC CHART 610.4 FOR WATER AND TABLE 703.2 FOR SEWER.

LEGENDS	
<u>S</u>	SANITARY LINE
	VENT PIPING
FD O	FLOOR DRAIN
	HOT WATER SUPPLY
	COLD WATER SUPPLY
— GAS —— GAS —— GAS —— GAS ——	GAS LINE
	CONDENSATE PIPE
	STORM WATER PIPE
CO $\longleftrightarrow$	CLEAN OUT
M	WATER METER
	WATER SHUTOFF VALVE
	GAS SHUTOFF VALVE

## GENERAL NOTES

1. ALL CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING PLUMBING CODES,

2. THE INTENT OF THESE DRAWINGS ARE TO PROVIDE COMPLETE OPERATIONAL SYSTEMS. EVEN THOUGH ALL FITTINGS & COMPONENTS MAY NOT BE SHOWN ON THE DRAWINGS, THE CONTRACTOR WILL RESPONSIBLE FOR PROVIDING ALL SERVICES, LABOR, MATERIALS TOOLS, AND EQUIPMENT TO CONSTRUCT, INSTALL AND COMPUSION COMPUTED OPEN TIONAL SYSTEMS. AND COMMISSION COMPLETE OPERATIONAL SYSTEMS.

3. COORDINATE ALL INSTALLATIONS WITH ALL OTHER TRADES

. VERIFY ALL DIMENSIONS AND FINAL LOCATIONS WITH THE OWNER OR OWNER'S REPRESENTATIVE OR ARCHITECT.

7. FURNISH TO THE OWNER A SET OF AS-BUILT DRAWINGS IN PDF FORMAT.

## PIPE MATERIALS

1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER TYPE L.

2. ABOVEGROUND WATER DISTRIBUTION PIPING: CPVC 3. UNDERGROUND WASTE 8 VENT PIPING: CPVC

4. ABOVEGROUND WASTE & VENT PIPING: CPVC

5. ABOVEGROUND GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S; GRADE

6. UNDERGROUND GAS PIPING: POLYETHYLENE, ASTM D-2513

7. CONDENSATE DRAIN PIPING: CPVC

8. UNDERGROUND STORM PIPING: CPVC

9. ABOVEGROUND STORM PIPING: CPVC

TANKLESS GASS WATER HEATER SCHEDULE									
FIXTURE SYMBOL	MANUFACTURER	MODEL NUMBER	HEAT CAPACITY INPUT BTUH	UEF	REMARKS				
TWH-1	NAVIEN	NPE-240A	19,900 - 199,000	0.96	SEE DETAILS IN SHEET P6				

PLUMBING NOTES, LEGENDS SCHEDULES, CALCULATIONS

## CODES ANALYSIS

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2019 CALIFORNIA RESIDENTIAL CODE WHICH INCLUDES:

2019 CALIFORNIA ELECTRICAL CODE,

2019 CALIFORNIA GREEN BUILDING CODE, 2019 CALIFORNIA MECHANICAL CODE,

2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2019 CALIFORNIA BUILDING CODE,

2019 CALIFORNIA FIRE CODE.