

SIZING SUMMARY (LONGEST LENGTH METHOD)
 GAS LOAD

SECOND STAGE LOW PRESSURE REGULATOR. (Pipe sizing between second stage regulator and appliance (WATER HEATERS)) TABLE: GAS: UNDILUTED PROPANE INLET PRESSURE: LESS THAN 2 PSI PRESSURE DROP: 0.5 IN. W.C SPECIFIC GRAVITY: 1.5 PIPING: SCHEDULE 40 METALLIC LONGEST RUN APPROXIMATELY: 10' TOTAL LOAD: 398,000 BTU/H	SECOND STAGE LOW PRESSURE REGULATOR. (Pipe sizing between second stage regulator and appliance (COOK TOP)) TABLE: GAS: UNDILUTED PROPANE INLET PRESSURE: LESS THAN 2 PSI PRESSURE DROP: 0.5 IN. W.C SPECIFIC GRAVITY: 1.5 PIPING: SCHEDULE 40 METALLIC LONGEST RUN APPROXIMATELY: 10' TOTAL LOAD: 120,000 BTU/H
SECOND STAGE LOW PRESSURE REGULATOR. (Pipe sizing between second stage regulator and appliance (POOL HEATER)) TABLE: GAS: UNDILUTED PROPANE INLET PRESSURE: LESS THAN 2 PSI PRESSURE DROP: 0.5 IN. W.C SPECIFIC GRAVITY: 1.5 PIPING: SCHEDULE 40 METALLIC LONGEST RUN APPROXIMATELY: 10' TOTAL LOAD: 400,000 BTU/H	SECOND STAGE LOW PRESSURE REGULATOR. (Pipe sizing between second stage regulator and appliance (FIREPLACE)) TABLE: GAS: UNDILUTED PROPANE INLET PRESSURE: LESS THAN 2 PSI PRESSURE DROP: 0.5 IN. W.C SPECIFIC GRAVITY: 1.5 PIPING: SCHEDULE 40 METALLIC LONGEST RUN APPROXIMATELY: 10' TOTAL LOAD: 50,000 BTU/H
SECOND STAGE LOW PRESSURE REGULATOR. (Pipe sizing between second stage regulator and appliance (BBQ)) TABLE: GAS: UNDILUTED PROPANE INLET PRESSURE: LESS THAN 2 PSI PRESSURE DROP: 0.5 IN. W.C SPECIFIC GRAVITY: 1.5 PIPING: SCHEDULE 40 METALLIC LONGEST RUN APPROXIMATELY: 10' TOTAL LOAD: 80,000 BTU/H	

GENERAL GAS NOTES

- USE TABLE 402.4(27) SCHEDULE 40 FLORIDA GAS CODE 2020 FOR PIPES WITH PRESSURE 2 PSI INSIDE THE BUILDING.
- USE TABLE 402.4(28) SCHEDULE 40 FLORIDA GAS CODE 2020 FOR PIPES LOW PRESSURE LESS 2 PSI INSIDE THE BUILDING.
- METALLIC PIPE SHALL BE COMPLY WITH SECTION 403.4.1 THROUGH 403.4.4. FLORIDA GAS CODE 2020.
- PIPING SYSTEM SHALL BE COMPLY WITH SECTION 404.1 FGC 2020.
- A SEPARATE PERMIT IS REQUIRED FOR THE GAS SYSTEM.
- ALL GAS EQUIPMENT/ APPLIANCES SHALL BE LISTED AND LABELED PER FBC-FUEL GAS SEC.301.3.
- ALL INSTALLATIONS SHALL BE AS PER NFPA 54 AND FBC FUEL GAS 2020, 7TH EDITION.
- INSTALL DIELECTRIC FITTING WHEN DIFFERENT METALS ARE CONNECTED TOGETHER.
- ALL GAS VALVES SHALL BE INSTALLED BELOW CEILING SPACE IN AN ACCESSIBLE AND VENTILATED AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH LOCAL GAS COMPANY.
- CONTRACTOR SHALL BE RESPONSIBLE BY INSTALLATION OF DRAIN LEG IF WILL BE NECESSARY. DRIPS SHALL BE PROVIDED WITH READY ACCESS TO PERMIT CLEANING OR EMPTYING.
- COVER EXPOSURE THREAD IN GALVANIZED PIPING WITH CORROSION RESISTANT PAINT IF APPLICABLE.

GAS PIPING

- SCHEDULE 40 GALVANIZED METALLIC PIPE TO BE USED ONLY ABOVE GROUND AND INSIDE PROJECT.
- POLYETHYLENE PLASTIC PIPE TO BE USED ONLY UNDERGROUND AND OUTSIDE.

MULTIVALVE &
 REGULATOR
 INSIDE DOME

1500 GALL
 LP TANK
 (UNDERGROUND)

UNDERGROUND PROPANE LP GAS
 TANK INSTALLATION UNDER
 SEPARATE PERMIT

LP TANK INSTALLATION SHALL FOLLOW THE MANUFACTURER
 AND NFPA 58 INDICATIONS. GAS CONTRACTOR IS RESPONSIBLE
 FOR ALL GAS TANK INSTALLATION APPROVAL. CONTAINERS
 FILLED ON SITE MUST BE LOCATED SO THAT THE FILLING
 CONNECTION AND FIXED MAX. LIQUID LEVEL GAUGE ARE AT
 LEAST 10 FT FROM ANY EXTERIOR SOURCE OF IGNITION (E.G.,
 OPEN FLAME, WINDOW AC, COMPRESSOR), INTAKE TO
 DIRECT-VENTED GAS APPLIANCE, OR INTAKE TO A MECHANICAL
 VENTILATION SYSTEM.

APPLIANCES

APPLIANCE#	APPLIANCE NAME	GAS INPUT (BTU/H)
①	GAS WATER HEATER	199,000 X 2 398,000
②	COOK TOP	120,000
③	POOL HEATER	400,000
④	FIREPLACE	50,000
⑤	BBQ	80,000
	GENERATOR	400,000 (AVAILABLE LOAD)
TOTAL		1,448,000 BTU/H
TOTAL CFH		1,448,000 1,000 = 1,448 CFH

2ND STAGE REGULATOR SET TO 11" W.C
 PRESSURE OUTLET_LESS THAN 2 PSI
 TABLE 402.4(28)
 TOTAL DISTANCE_10'
 LOAD_398,000 BTU/HR

GWH-1
 199,000 BTU/HR
 (EACH)

1" POLYETHYLENE PLASTIC
 GAS LINE UNDERGROUND
 (1,048,000 BTU/HR)

3/4" GAS LINE METALLIC PIPE SCH 40

3/4" GAS LINE METALLIC PIPE SCH 40

3/4" GAS LINE METALLIC PIPE SCH 40

3/4" POLYETHYLENE PLASTIC
 GAS LINE UNDERGROUND
 (650,000 BTU/HR)

2ND STAGE REGULATOR SET TO 11" W.C
 PRESSURE OUTLET_LESS THAN 2 PSI
 TABLE 402.4(28)
 TOTAL DISTANCE_10'
 LOAD_120,000 BTU/HR

COOK TOP
 120,000 BTU/HR

1/2" GAS LINE METALLIC PIPE SCH 40
 1/2" GAS LINE METALLIC PIPE SCH 40

2ND STAGE REGULATOR SET TO 11" W.C
 PRESSURE OUTLET_LESS THAN 2 PSI
 TABLE 402.4(28)
 TOTAL DISTANCE_10'
 LOAD_400,000 BTU/HR

3/4" GAS LINE METALLIC PIPE SCH 40

POOL HEATER
 400,000 BTU/HR

3/4" GAS LINE METALLIC PIPE SCH 40

3/4" POLYETHYLENE PLASTIC
 GAS LINE UNDERGROUND
 (130,000 BTU/HR)

FIREPLACE
 50,000 BTU/HR

2ND STAGE REGULATOR SET TO 11" W.C
 PRESSURE OUTLET_LESS THAN 2 PSI
 TABLE 402.4(28)
 TOTAL DISTANCE_10'
 LOAD_50,000 BTU/HR

DIRT LEG

1/2" GAS LINE
 METALLIC PIPE SCH 40

BBQ
 80,000 BTU/HR

2ND STAGE REGULATOR SET TO 11" W.C
 PRESSURE OUTLET_LESS THAN 2 PSI
 TABLE 402.4(28)
 TOTAL DISTANCE_10'
 LOAD_80,000 BTU/HR

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 NTS

LUSEO
 ENGINEERING

NOT VALID UNLESS SIGNED & SEALED
 "IN MY PROFESSIONAL JUDGEMENT
 AND TO THE BEST OF MY
 KNOWLEDGE AND BELIEF, THESE
 PLANS AND SPECIFICATIONS COMPLY
 WITH APPLICABLE BUILDING CODES."



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PHASE:	REVISION No.	DATE
100% Issued for Permit	-	03/18/2022
Bldg. Comments	1	04/22/2022
Bldg. Comments	2	05/02/2022
HRS Comments	3	06/17/2022
Owners changes	4	01/24/2023

100% ISSUED FOR PERMIT

STRUCTURAL ENGINEER

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 9719 South Dixie Hwy, Suite 2
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MEP ENGINEER

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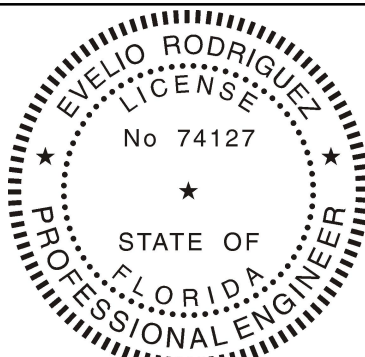
CIVIL ENGINEER

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SEAL



Evelio Rodriguez
 Digitally signed by Evelio Rodriguez
 DN: cn=Evelio Rodriguez,
 ou=ARCH10000000738E4311015000
 25258E5D-10464646, c=US
 Reason: I am the author of this
 document
 Date: 2023.01.30 15:33:59-0500'

EVELIO RODRIGUEZ
 P.E.# 74127

PROJECT

PINECREST RESIDENCE
 12020 SW 77th Avenue
 Pinecrest, FL 33156

OWNER

KEVIN HUBER & MILA KHOMIAK
 12020 SW 77th Avenue
 Pinecrest, FL 33156

TITLE

PLUMBING
 ISOMETRICS

SCALE PROJECT NUMBER
 N.T.S 2103

SHEET

P-8.0

DATE DRAWING NUMBER
 03/18/2022 8 OF 8