

WFU CALC

TBL 1021 UPC

WATER FIXTURES			
FIXTURE	QTY	FU EA	TOTAL
WATER CLOSET	8	2.5	20
LAV	5	1	5
BATH TUB	1	4	4
SHOWERS	8	2	16
KIT SINK	1	1.5	1.5
WASHER	3	4	12
UTILITY SINK	2	1	2
HOSE BIB	4	2.5(0)	5.5
TOTAL WFU (TBL 610.3)			88
METER & PIPE SIZE-UPC 610.4			
STREET PRESSURE	MAX LENGTH	# FIXTURES/FU'S	METER/SUPPLY
80	150	36/88	MIN 1.5" METER 1/2" BLDG SUPPLY

PLBG MATERIAL LEGEND

COLD WATER (WIRBBO OR COPPER)

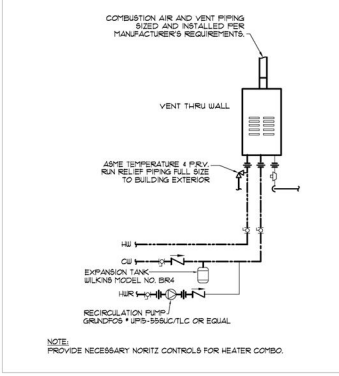
HOT WATER (WIRBBO OR COPPER)

HOT CIRCULATION (WIRBBO OR COPPER)

SOFT WATER

NOTE: ALL WATER LINES TO BE 1/2" UNLESS NOTED OTHERWISE

TANKLESS WATER HEATER DETAIL



TANKLESS WATER HEATER SCHEDULE

SYMBOL	HFR MODEL OR EQUIVALENT	MIN STORAGE (GALLONS) OR GPH	TYP OF GAS	GAS INPUT BTU	VOLTS	EFFICIEN CY
HU	NORTZ MODEL NRP3 5V-NAT	8.4 GPH	NAT	155000 BTU	120	88%

PROJECT TITLE
ATHENS LOT 4

SHEET TITLE
WATER PLAN

ISSUE DATE _____
DRAWN BY _____
PROJECT # _____



P-1

PROJECT TITLE
4 ATHENS LOT

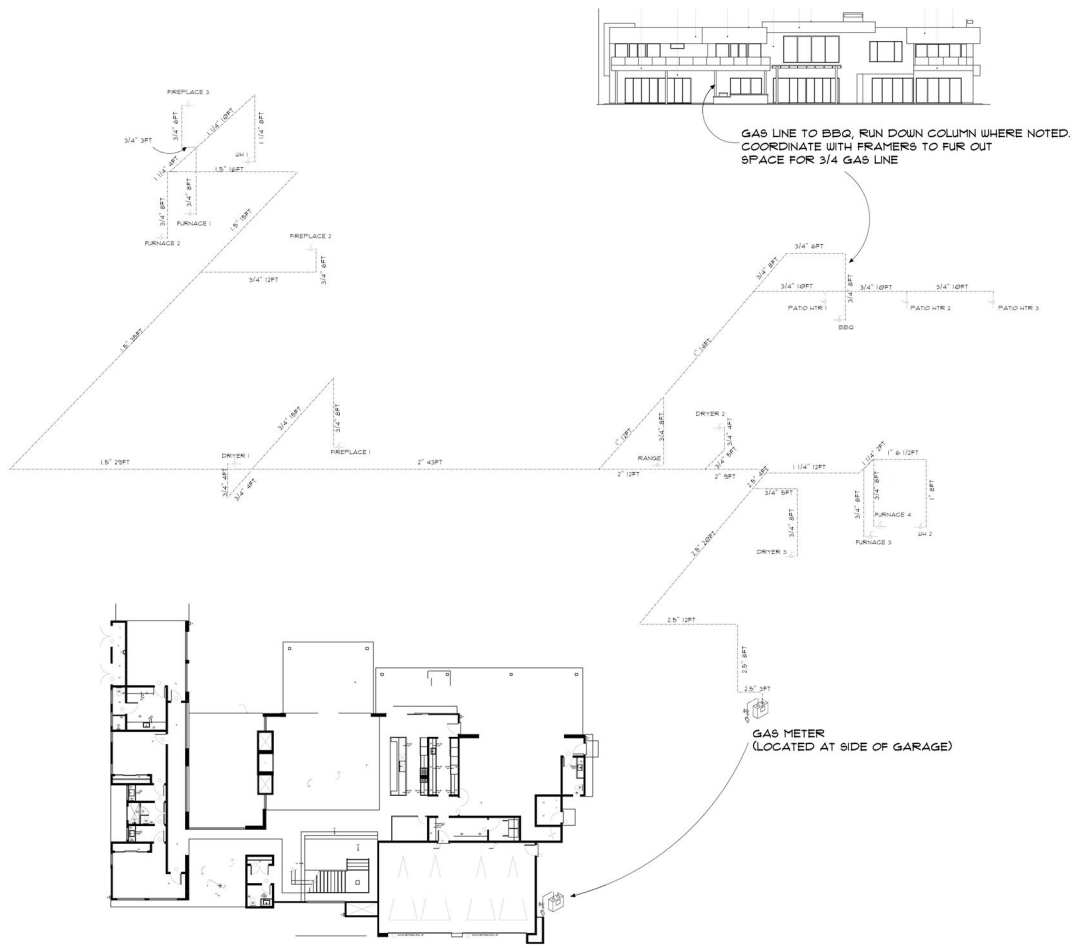
SHEET TITLE
GAS

ISSUE DATE
DRAWN BY
PROJECT #



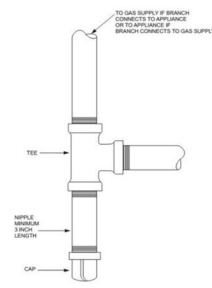
P-3

GAS ISOMETRIC NT5



NOTE - UPC 1212 & SEDIMENT TRAP
WHERE A SEDIMENT TRAP IS NOT INCORPORATED
AS A PART OF THE APPLIANCE, A SEDIMENT TRAP SHALL BE INSTALLED
DOWNSTREAM OF THE APPLIANCE SHUTOFF VALVE AS CLOSE TO THE
INLET OF THE APPLIANCE AS PRACTICAL, BEFORE THE FLEX
CONNECTOR WHERE USED AT THE TIME OF APPLIANCE INSTALLATION. THE
SEDIMENT TRAP SHALL BE EITHER A TEE FITTING WITH A CAPPED NIPPLE
IN THE BOTTOM OUTLET, AS ILLUSTRATED IN FIGURE 1212.9, OR OTHER
DEVICE RECOGNIZED AS AN EFFECTIVE SEDIMENT TRAP.

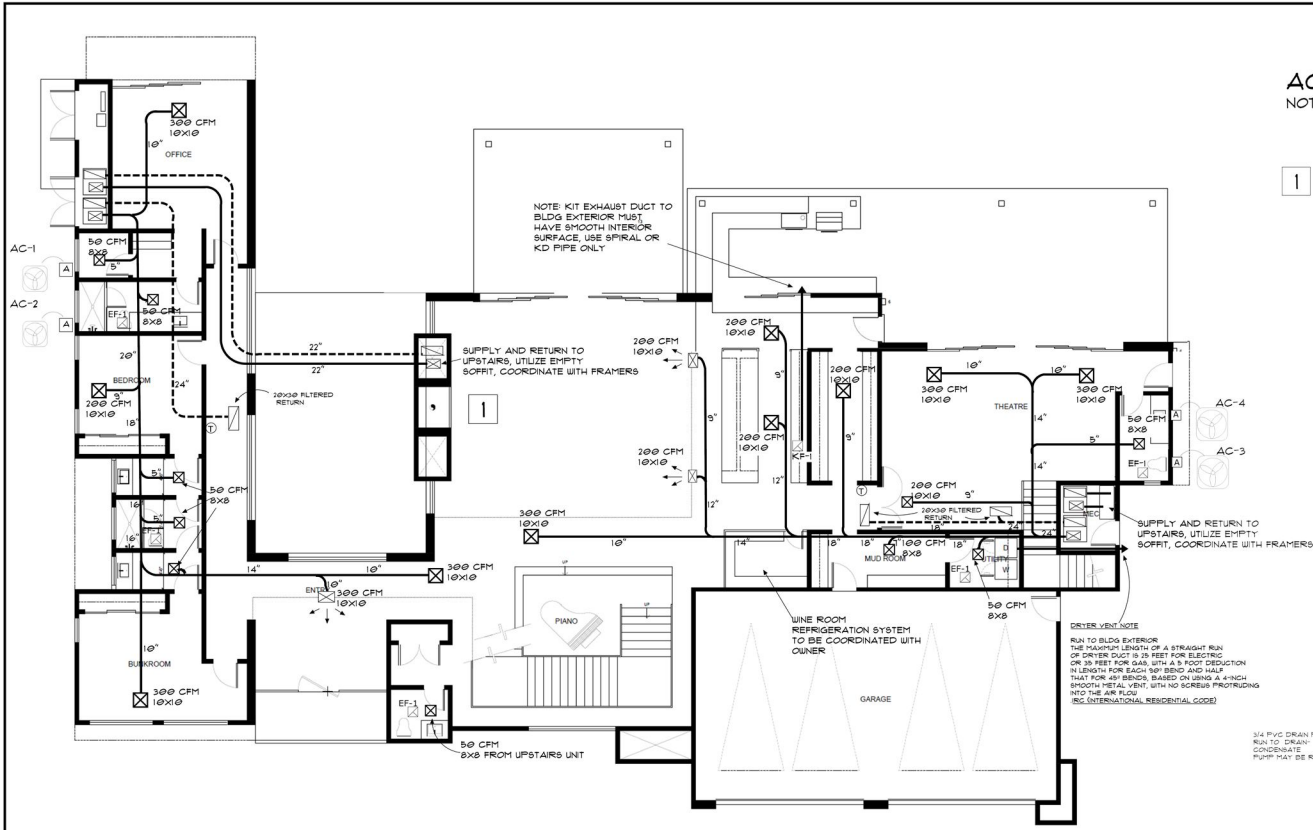
ILLUMINATING APPLIANCES, RANGES, CLOTHES DRYERS, DECORATIVE
APPLIANCES FOR INSTALLATION IN VENTED FIREPLACES, GAS
FIREPLACES, AND OUTDOOR GRILLS SHALL NOT BE REQUIRED TO BE SO
EQUIPPED.



NOTES
-ALL GAS PIPING TO BE IRON PIPE
-NO UNDERGROUND PIPING UTILIZED

GAS CALC
IRON PIPE (UPC 1215.20)
METHOD USED (FURTHEST APPLIANCE) 228 FT TOTAL
DEVELOPED LENGTH
NAT GAS SG ~.60 @ 0.5 IN WC PRESS DROP

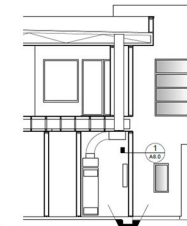
GAS EQUIP LIST (NAT GAS)					
ITEM	DEVELOPED LENGTH (FT)	QTY	BTU	CU FT PER HR	PIG CONNECTION (IN)
FURNACE 1	216	1	100,000	10	3/4
FURNACE 2	206	1	100,000	10	3/4
FURNACE 3	217	1	100,000	10	3/4
FURNACE 4	228	1	100,000	10	3/4
GAS DRYER 1	115	1	35,000	32	1/2
GAS DRYER 2	228	1	35,000	32	1/2
GAS DRYER 3	228	1	35,000	32	1/2
TANKLESS WATER HEATER 1	FURTHEST 228	1	150,000	102	3/4
TANKLESS WATER HEATER 2	128	1	150,000	102	3/4
RANGE	228	1	45,000	44	1/2
BBQ STOVE	128	1	75,000	44	1/2
FIRE PLACE 1	124	2	40,000	34	1/2
FIRE PLACE 2	124	2	40,000	34	1/2
FIRE PLACE 3	218	2	40,000	34	1/2
PATIO HEATER 1	124	2	40,000	34	1/2
PATIO HEATER 2	124	2	40,000	34	1/2
PATIO HEATER 3	124	2	40,000	34	1/2
TOTAL			1,285,000	116,700	FT/HR



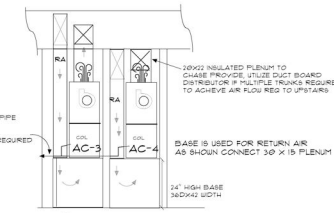
AC DESIGN NOTES

NOTE: FLEX DUCT R-6 MIN
NO EQUIPMENT IN ATTIC-
NO ACCESS REQUIRED

- 1 GAS FIRE PLACE (SEE M2 FOR SPECS)

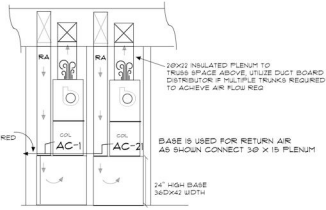


AC 3 & 4 DETAIL SIDE VIEW



AC 3 & 4 DETAIL FRONT VIEW

FAU INSTALLED IN MECHANICAL CLOSET



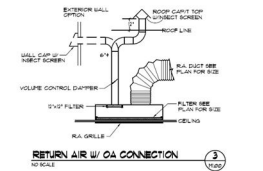
AC 1 & 2 DETAIL

FAU INSTALLED IN MECHANICAL CLOSET

SYMBOL LEGEND

SYMBOL	ABBR.	DESCRIPTION
☒	SA	SUPPLY AIR
☒	RA	RETURN AIR
☒	EF	EXHAUST FAN
☒	BD	BYPASS DAMPER
☒	ZD	ZONE DAMPER
☒	TSTAT	THERMOSTAT
☒	SW	SWITCH
☒	AV	AIR DEVICES TAG
☒	MVD	VOLUME DAMPER
☒	POC	POINT OF CONNECTION
☒	POD	POINT OF DISCONNECT
☒	AF	ABOVE FINISHED FLOOR
☒	(E)	EXISTING

PROVIDE MAKE UP AIR
BEDROOMS 6"11"4"28" 28 CFM
LIVABLE AREA 9128 SQFT X 0.06" 583 CFM
GRAND TOTAL = 611 CFM



RETURN AIR W/ OA CONNECTION

AIR INTAKES SHALL CLOSE AUTOMATICALLY AND BE LOCATED MIN OF 18" FROM VENTS, CHIMNEYS OR FLUING VENTS.

ALL EQUIPMENT IS SIZED PER SENSIBLE LOAD FROM MANUAL J PER THE EXPANDED RATING FROM OEM SEE ELITE SOFTWARE REPORT PROVIDED

EQUIPMENT	QTY	TONNAGE	VOLT	NAME
RUID AC RA1660AJUNA-W/ 90% FURNACE	3	5/2000 CFM	230/1	AC 2,3,4
RUID AC RA1648AJUNA-W/ 90% FURNACE	1	4/1600 CFM	230/1	AC 1
VENT AIRE RANGE EXHAUST FAN	1	100CFM	110/1	KF
BROAN BATHROOM EXHAUST FAN	12	50CFM	110/1	EF

PROJECT TITLE
ATHENS LOT 4

SHEET TITLE
MECHANICAL

ISSUE DATE
DRAWN BY
PROJECT #

M-1

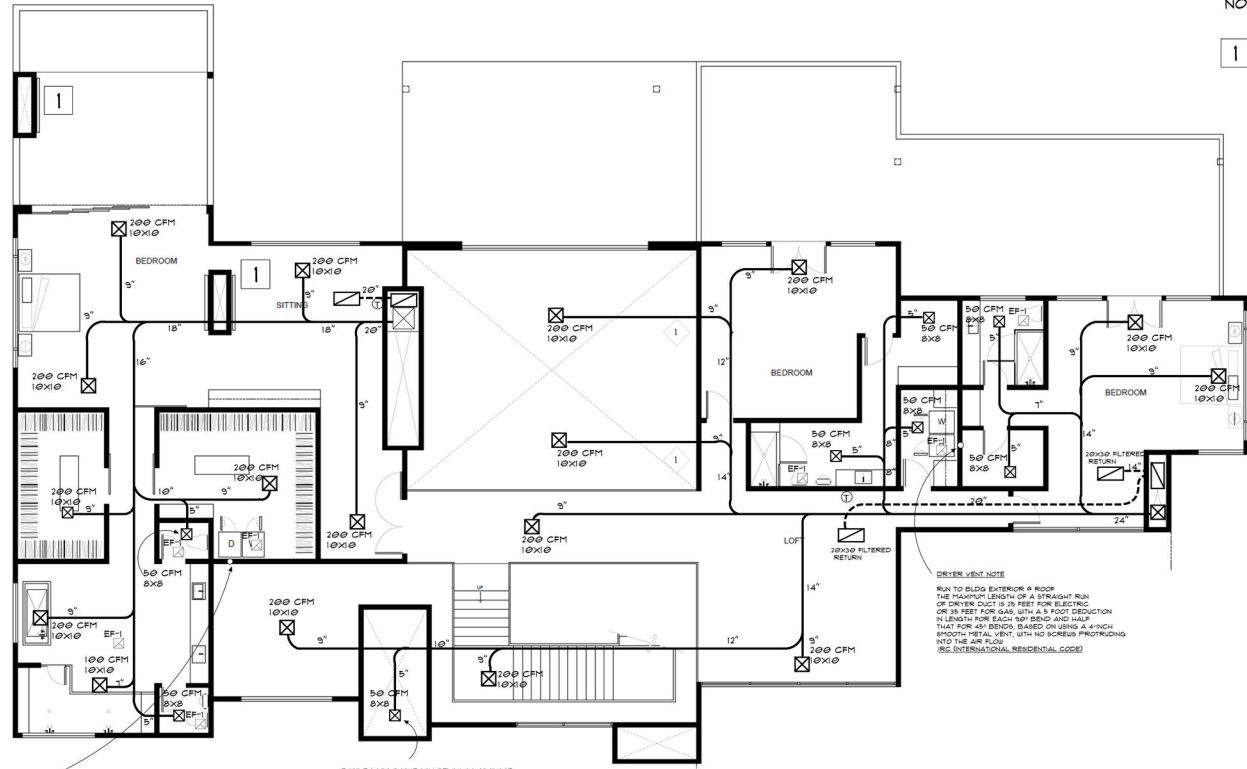
MECHANICAL PLAN 1ST FL
NTS

AC DESIGN

NOTE: FLEX DUCT R-6 MIN
NO EQUIPMENT IN ATTIC
NO ACCESS REQUIRED

1 FIRE PLACE (SEE NOTES THIS SHEET)

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
SA	SUPPLY AIR
RA	RETURN AIR
EF	EXHAUST FAN
BD	BYPASS DAMPER
ZD	ZONE DAMPER
TSTAT	THERMOSTAT
SW	SWITCH
AD	AIR DEVICES TAG
VO	VOLUME DAMPER
PC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
AF	ABOVE FINISHED FLOOR
EX	EXISTING

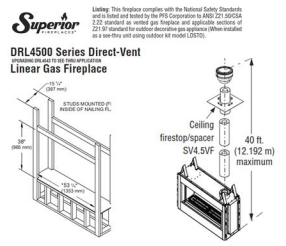


DRYER VENT NOTE
RUN TO BLDG EXTERIOR & ROOF
THE MAXIMUM LENGTH OF A STRAIGHT RUN
OF DRYER DUCT IS 25 FEET FOR ELECTRIC
OR 35 FEET FOR GAS, WITH A 3 FOOT REDUCTION
IN LENGTH FOR EACH 90° BEND AND HALF
THAT FOR 45° BENDS BASED ON USING A 4-INCH
SMOOTH METAL VENT, WITH NO SCREENS PROTRUDING
INTO THE AIR FLOW.
(ICC INTERNATIONAL RESIDENTIAL CODE)

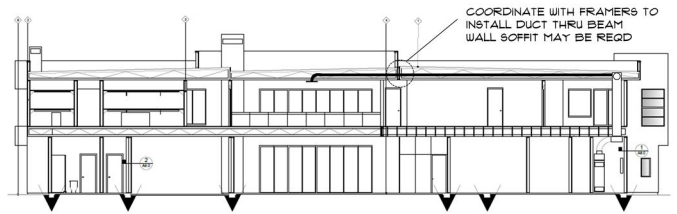
DUCT RUN TO BATHROOM BELOW ON 1ST FLOOR

DRYER VENT NOTE
RUN TO BLDG EXTERIOR & ROOF
THE MAXIMUM LENGTH OF A STRAIGHT RUN
OF DRYER DUCT IS 25 FEET FOR ELECTRIC
OR 35 FEET FOR GAS, WITH A 3 FOOT REDUCTION
IN LENGTH FOR EACH 90° BEND AND HALF
THAT FOR 45° BENDS BASED ON USING A 4-INCH
SMOOTH METAL VENT, WITH NO SCREENS PROTRUDING
INTO THE AIR FLOW.
(ICC INTERNATIONAL RESIDENTIAL CODE)

GAS FIREPLACE 1



NOTE 1 AT LOCATIONS INDICATED ON M2



MECHANICAL PLAN 2ND FL
NT6

Project Title
ATHENS LOT 4

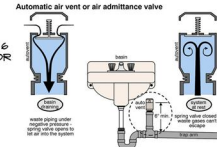
SHEET TITLE
MECHANICAL

Issue Date _____
DRAWN BY _____
Project # _____

M-2

DWV PLAN ^{NTS}

WHERE NOTED ON DWV PLAN
 PROVIDE LISTED OATEY MODEL# 33016
 SURE-VENT AIR ADMITTANCE VALVE OR
 EQUIVALENT
 COMPLIES TO ANSI 1051 A1B

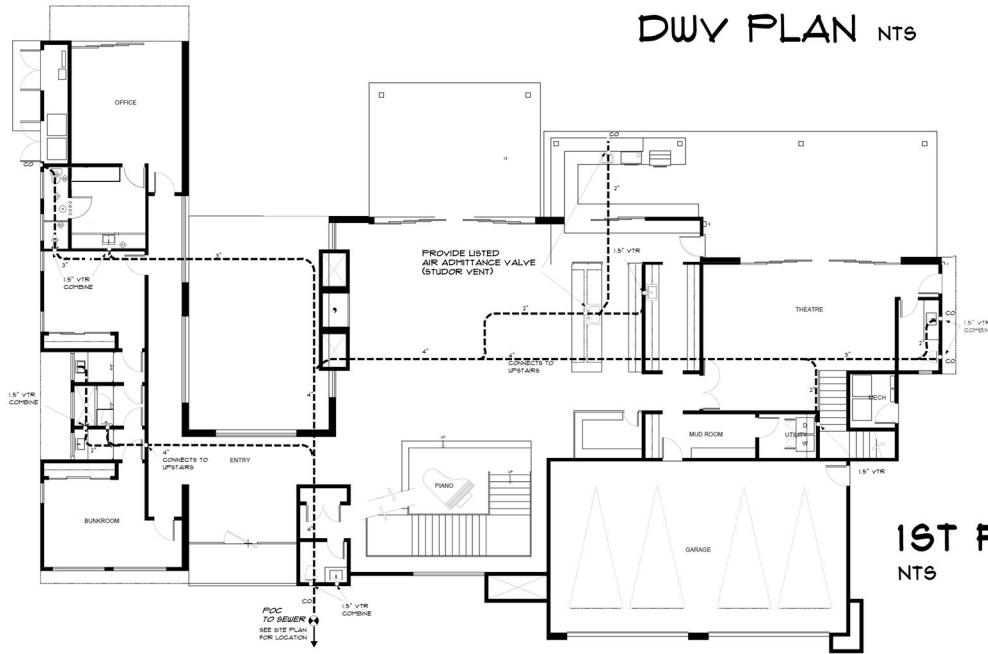


DFU CALC

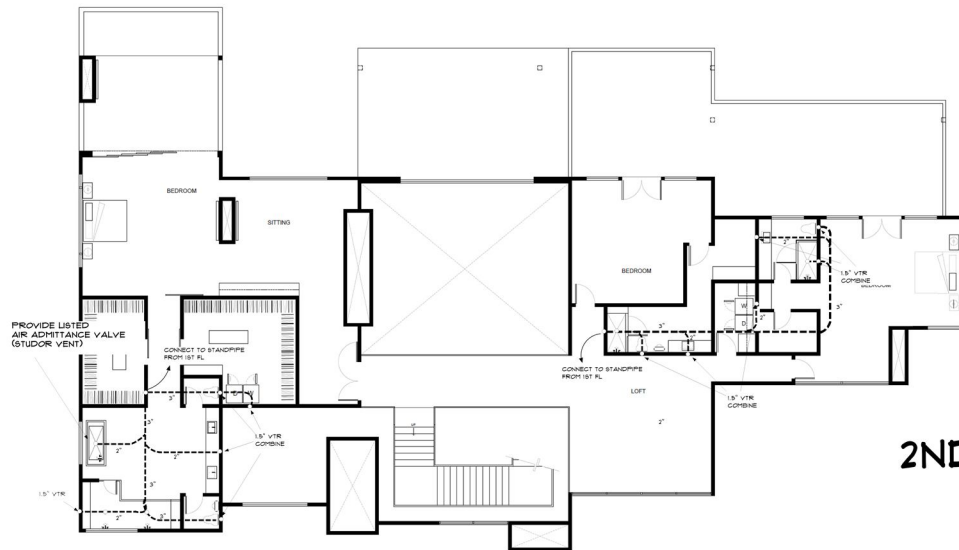
TBL 102.1 UPC

WASTE FIXTURES			
FIXTURE	QTY	FU EA	TOTAL
WATER CLOSET	8	3	24
LAV	9	1	9
BATH TUB	1	2	2
SHOWERS	8	2	16
KIT SINK	1	2	2
WASHER	3	3	9
UTILITY SINK	2	2	4
TOTAL DFU'S			66
4IN SEWER 216 FU ALLOWED AT 1/4" PFR/FT			

1ST FLOOR ^{NTS}



2ND FLOOR



- NOTES:
 DEVELOPED LENGTH TO FURTHEST FIXTURE #130'
 32" OF FALL REQUIRED
 ALL DWV MATERIALS TO BE ABS OR PVC SCH 40
 POINT OF CONNECTION TO SEWER AT FRONT OF HOUSE,

PLUMBING GENERAL NOTES

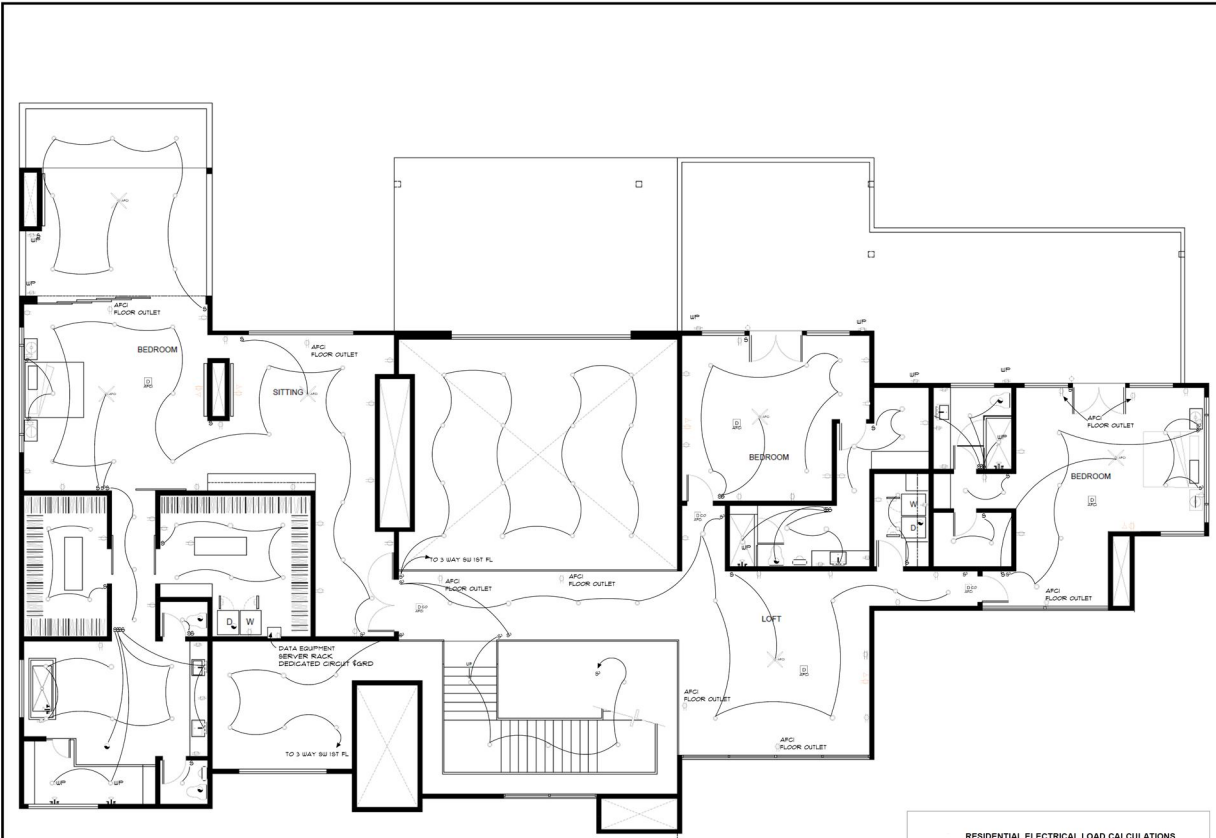
- DRAWINGS ARE DIAGNOSTIC. MINOR DEVIATIONS TO PIPE MAY BE NECESSARY DUE TO STRUCTURAL CONDITIONS. ANY DEVIATIONS TO PIPE SIZING AS INDICATED SHALL BE TRANSMITTED TO ENGINEER FOR REVIEW, BEFORE STARTING ANY WORK.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2018 UPC PLUMBING CODE, AND THE LATEST EDITION OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODES, MECHANICAL, ELECTRICAL, CODES, AND FEDERAL, STATE AND LOCAL REGULATIONS.
- VIEW SUPPLIER: ALL UNITS TO BE LABELED WITH THEIR INPUT RATING AND EFFICIENCY. ALL EQUIPMENT SHALL BE BALANCED, ADJUSTED AND TESTED TO PROVIDE SAFE, STABLE AND QUIET OPERATION.
- CONTRACTOR SHALL:
 - PROVIDE PRESSURE REGULATOR AND STRAINER, NOT TO EXCEED 80 P.S.I.
 - PROVIDE A MEANS FOR HW EXPANSION WHEN ANY DEVICE IS INSTALLED PREVENTING EXPANSION THRU BUCK'S SUPPLY UPC 608.3.5.2.1
 - BE RESPONSIBLE TO VERIFY THAT WATER PRESSURE AND METER STATED ON PLANS, ARE THE MINIMUMS AVAILABLE IN FIELD.
- WATER HEATERS 1/2" PIPE RISERS SHALL HAVE HEAT TRAPS ON BOTH THE INLET AND OUTLET OF THE WATER HEATER UNLESS THE WATER HEATER HAS INTEGRAL HEAT TRAPS OR IS PART OF A CIRCULATING SYSTEM.
- DOMESTIC WATER PIPING:
 - HOT WATER SYSTEMS: INSTALL R-2 INSULATION ON THE HOT WATER SERVICES OF THE RE-CIRCULATING SYSTEMS AND NON-CIRCULATING HOT WATER LINES IN UNCONDITIONED SPACES, PER AMVIC 2404.0.0.0.0.0.0.0.
 - ACRIG GROUND: TYPE "M" COPPER (DWPNO IS 2-2003), WROUGHT FITTINGS, LEAD FREE SOLDERED.
 - BELOW SLAB: TYPE "L" COPPER (DWPNO IS 2-2003), TUBING SWEETED THRU SLAB, ALL JOINTS SILVER BRAZED OR "WISSOT" OR EQUAL CROSS-LINKED POLYETHYLENE (DWPNO IS 7-2003)
 - TYPE "A" PIPING W/ BRASS FITTINGS, SUITABLE FOR POTABLE WATER, WHEN INSTALLED BY A PRODUCT CERTIFIED TECHNICIAN. NOTE: DIELECTRIC FITTINGS SHALL BE USED WHEREVER DISSIMILAR METALS ARE JOINED.
- SANITARY WASTE AND VENT PIPING:
 - ABS (DWPNO IS 11-2003) OR PVC (DWPNO IS 9-2003) PAINT WITH LATEX PAINT WHERE EXPOSED.
- CONDENSATE DRAIN PIPING:
 - TYPE "M" (DWPNO IS 3-2003), WROUGHT FITTINGS PVC, OR A CODE APPROVED MATERIAL.
- GAS PIPING:
 - INSIDE SCHEDULE 40 BLACK IRON, THREADED WALLEABLE FITTINGS OUTSIDE/EXPOSED, USE GALVANIZED FITTINGS AND PIPE JOINT COMPOUND AND PROVIDE PROTECTION THAT IS CODE APPROVED. CAN USE CORROGATED STAINLESS STEEL TUBING PROVIDED IT IS LISTED BY AN APPROVED AGENCY, PROVIDE A SHROUDED VALVE THAT IS ACCESSIBLE, IN THE SAME ROOM AND WITHIN 3 FEET FROM THE EQUIPMENT BEING SERVED.
 - SUSPENDED PIPING SHALL BE SUPPORTED AT THE FOLLOWING INTERVALS: 6 FEET FOR 1/2", 8 FEET FOR 3/4" AND 1", 10 FEET FOR 1-1/4" AND LARGER.
- PLUMBING FIXTURES:
 - PROVIDE 45° ANGLE STEPS TO FINISH PLUMBING FIXTURES
 - PROVIDE PRESSURE BALANCED MIXING VALVES AND 2.5 GAL/MIN MAX FLOW RATES AT ALL BATHTUBS AND SHOWERS, EXCEPT B.E.C.
 - PROVIDE SHUT OFF VALVES WITH UNIONS TO ALL OTHER PLUMBING FIXTURES (I.E. WATER HEATER) TO FACILITATE ISOLATION FOR REPAIR.
 - ALL PLUMBING FIXTURES SHALL COMPLY WITH LOCAL AUTHORITIES CURRENT WATER CONSERVATION CODES.

PROJECT TITLE
ANTHEM LOT 4

SHEET TITLE
DRAIN WASTE & VENT

ISSUE DATE _____
 DRAWN BY _____
 PROJECT # _____

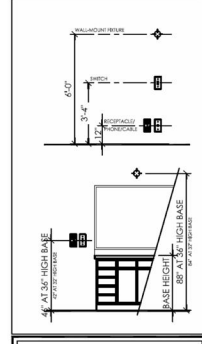
P-2



ELECTRICAL SYMBOL LEGEND	
[Symbol]	SINGLE POLE SWITCH
[Symbol]	THREE-WAY SWITCH
[Symbol]	FOUR-WAY SWITCH
[Symbol]	WATER PROOF
[Symbol]	110 V. DUPLEX RECEPTACLE WITH GROUND-FAULT INTERRUPTER
[Symbol]	110 V. DUPLEX HALF-HOT RECEPTACLE WITH GROUND-FAULT INTERRUPTER
[Symbol]	110 V. DUPLEX RECEPTACLE WITH ARC-FAULT INTERRUPTER
[Symbol]	110 V. DUPLEX HALF HOT RECEPTACLE WITH ARC-FAULT INTERRUPTER
[Symbol]	220 V. APPLIANCE OUTLET
[Symbol]	AFC DISCONNECT
[Symbol]	PUSH BUTTON
[Symbol]	CHIME
[Symbol]	SMOKE ALARM
[Symbol]	SMOKE/CO COMBO ALARM
[Symbol]	J-BOX
[Symbol]	MAIN ELECTRICAL PANEL
[Symbol]	WEATHER ADDRESS SIGN
[Symbol]	DOORBELL TRANSFORMER
[Symbol]	CEILING-MOUNT LUMINAIRE
[Symbol]	WALL-MOUNT LUMINAIRE
[Symbol]	RECESSED CEILING-MOUNT LUMINAIRE
[Symbol]	FLUORESCENT CEILING-MOUNT LUMINAIRE
[Symbol]	EXHAUST FAN
[Symbol]	TELEPHONE JACK
[Symbol]	VIDEO JACK
[Symbol]	FUEL GAS
[Symbol]	LOOSE KEY
[Symbol]	HOSE BIBB
[Symbol]	HOSE BIBB WITH SHUT-OFF
[Symbol]	AFCI
[Symbol]	CEILING MOUNT PADDED FAN WEIGHT

- ### ELECTRICAL NOTES
- SMOKE ALARMS TO BE POWERED BY 120V AND INTERCONNECTED WITH A BATTERY BACKUP AND SIMULTANEOUS ALARM.
 - ELECTRICAL RECESSED INSTALLED ABOVE TRIMS AND SHOWERS TO BE WATERPROOF.
 - ALL 15A/20A RECEPTACLES IN 15 AND 20 AMPERE RECEPTACLE INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION:
 - ALL RECEPTACLES LOCATED IN BATHROOM, GARAGES, OUTDOORS, SERVING COUNTERTOPS IN KITCHENS, AND IN THE 15A/20A WITHIN 6' OF A SINK.
 - DUPLEX RECEPTACLES SHALL BE INSTALLED IN ALL LIVING AND SERVING ROOMS AND SHALL USE ROOMS SO THAT NO POINT ALONG ANY LENGTH OF WALL 20' OR GREATER IS MORE THAN 6 FEET FROM ANY OUTLET IN THAT SPACE, INCLUDING RECESSED PANELS ON EXTERIOR WALLS. FLOOR OUTLETS SHALL NOT BE CONSIDERED AS PART OF THE REQUIRED NUMBER UNLESS LOCATED CLOSE TO A WALL. DUPLEX RECEPTACLES SHALL BE INSTALLED IN ROOMS AT EACH COUNTER SPACE 17' OR WIDER, AND SO THAT NO POINT ALONG ANY LENGTH OF COUNTER IS MORE THAN 40" FROM ANY OUTLET. COUNTERS SEPARATED BY FREESTANDING APPLIANCES SHALL BE CONSIDERED AS SEPARATE COUNTERS.
 - ISLANDS AND PENINSULAR COUNTERTOPS GREATER IN SIZE THAN 120" x 24" SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET AND SHALL IN GENERAL COMPLY WITH THESE REQUIREMENTS.
 - NO MORE THAN 4 DUPLEX OUTLETS SERVING THE REQUIRED COUNTERTOP RECEPTACLE SHALL BE INSTALLED ON ANY SMALL APPLIANCE BRANCH CIRCUIT.
 - ONE DUPLEX OR RECEPTACLE SHALL BE PROVIDED FOR EACH LAVATORY IN BATHROOMS. BATHROOM RECEPTACLE OUTLETS SHALL BE PROVIDED BY AT LEAST ONE AMP BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS IN FRONT OF DWELING, REAR OF DWELING, AND IN GARAGE. THE FOLLOWING EXEMPTED IN-PLACE APPLIANCES ARE REQUIRED TO HAVE A SEPARATE MINIMUM 20-AMPERE CIRCUIT:
 - DISHWASHER, TRASH COMPACTOR, MICROWAVE OVEN, RANGE HOOD, CUPBOARD WASHER AND PERFORMANCE BATHUB.
 - THE CLOSET WASHER CIRCUIT MAY SERVE ONE ADDITIONAL OUTLET IN THE LAUNDRY AREA.
 - ALL BRANCH CIRCUITS THAT SERVE 15/20V RECEPTACLES IN 15 AND 20 AMP BRANCH CIRCUITS SERVING OUTLETS INSTALLED IN DWELING UNIT REBROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, FAMILY ROOMS, LIBRARY, OFFICE, SUNROOM, REC. ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER. COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. ARTICLE 210.13(B) INCLUDING LIGHT AND SMOKE ALARMS.
 - THE MAXIMUM NUMBER OF OUTLETS ON A 20-AMP, 250V-CIRCUIT USED EITHER EXCLUSIVELY FOR RECEPTACLE OR EXCLUSIVELY FOR EXEMPTED DEVICES OR FOR ANY COMBINATION OF RECEPTACLES AND EXEMPTED DEVICES SHALL BE 12.
 - A 15/20V SINGLE-PHASE 15 AND 20 AMPERED GFCI RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION ON THE SAME LEVEL AS AND WITHIN 20 FEET FOR THE SERVING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT.
 - WHERE A BOX IS USED AS THE SOLE SUPPORT OF A CEILING-SUPPLEMENTARY EXHAUST FAN, THE BOX SHALL BE USED FOR THE APPLICATION AND FOR THE WEIGHT OF THE FAN SUPPORTED.
 - ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ELIMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY FOR INTERIOR STAIRS. THE ARTIFICIAL LIGHT SOURCE SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO DEVELOP NOT LESS THAN 1 FOOT-CANDLE MEASURED AT THE CENTER OF TREADS AND LANDINGS.
 - ALL LIGHTING FIXTURES SHALL BE INSTALLED WITH A ZONE WHICH IS ALL HORIZONTAL AND 8 FEET VERTICAL FROM THE TOP OF THE BATHUB OR SHOWER SHALL BE ZONE DIRECTLY OVER A TUB OR SHOWER SHALL BE GFCI PROTECTED.
 - LUMINAIRES IN CLOSETS, CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH 2017 NEC.
 - Where more than 1 smoke alarm or carbon monoxide alarm is required to be installed within an individual dwelling unit, all alarm devices shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual unit. Smoke and carbon monoxide alarms shall be installed in the following locations: (IRC Section R314.3 on amended)
 - A. Smoke alarms in each sleeping room.
 - B. Smoke alarms outside of each separate sleeping area in the immediate vicinity of the bedrooms.
 - C. Smoke alarms on each additional story of the dwelling, including basements, but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intermediate floor between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full-story below the upper level.
 - D. Carbon monoxide alarm outside of sleeping areas in the immediate vicinity of the bedrooms in dwelling units with attached garages.
 - All listed models specified in 210.12, all 125-watt 15 and 20 amp receptacles shall be listed tamper-resistant receptacles (NEMA 40-11).
 - A minimum of 75% of the lamps in permanently installed fixtures shall be high efficacy lamps (SEC).

TYPICAL INSTALLATION HEIGHTS



NOTE
 THESE PLANS HAVE BEEN DESIGNED TO COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED AND ADOPTED.

RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

Owner: Custom Home Date: 07/26/18
 Address: Athens Lot #8 Prepared by: J.B.

General Lighting Load (sq. ft. x 3 VA/area)	=	29175	VA		
Small Appliance Outlets at 1500 VA each (x 2 per unit)	=	6000	VA		
Laundry (washing machine) Circuit 1500 VA (x 1 per unit)	=	1500	VA		
Sub-Total	=	36675	VA		
Fixed 1200 VA (4) Lighting, Small Appliances, Laundry Load at 100%	=	36675	VA		
Fixed 1200 VA (10) (100% VA) (40%)	=	4800	VA		
Over 15000 VA (40% 25%)	=	1200	VA		
Electrical Cooling Appliances, Use NEC Table 220.11					
Number of Appliances (2) (20000 BTU) x Total VA (20000 BTU) x 1.000	=	8000	VA		
Number of Appliances (2) (20000 BTU) x Total VA (20000 BTU) x 1.000	=	8000	VA		
Number of Appliances (2) (20000 BTU) x Total VA (20000 BTU) x 1.000	=	8000	VA		
Dryer Load NEC Table 220.54	=	2500	VA		
(1) Sub-Total	=	2500	VA		
(2) Sub-Total	=	22000	VA		
(3) Sub-Total	=	3000	VA		
(4) Sub-Total	=	1600	VA		
(5) Sub-Total	=	4800	VA		
GRAND TOTAL (Add Sub-Totals (1), (2), (3), (4), (5))	=	62000	VA		
Total Volt Amps	=	22000	Divide by 240 Volts =	917	Amps

Service Size: 600 Grounding Electrode Conductor: 3/0

08/19/2018 Rev. 11.11.18

POWER PLAN 2ND FL

NTS

PROJECT TITLE: ATHENS LOT 4

SHEET TITLE: POWER PLAN

ISSUE DATE: _____

DRAWN BY: _____

PROJECT # _____

E-2

