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HPC-22-03

April 20, 2022

To: Historic Preservation Commission
From: Wade Broadhead, Senior Planner
Through: Scott Hobson, Acting Director of Planning and Community Development
Location: 300 Abriendo Avenue
Applicant: Jeff Bailey
Owner: Same
Year Built: 1906
Legal Description: On file
Zone District: R-5, Multiple Residential and Office District

Synopsis

The property at 300 Abriendo Avenue, is a National historic landmark (ordinance 6888) and requires review for any exterior work other than maintenance. The owner/applicant is request approval to add one mini split heating/cooling unit to the west elevation of the building. Staff utilized the Standards of Appropriateness Criteria for HVAC as the document for this review.

Analysis

The Standards of Appropriateness 3.1.10 state:

1. Design climate control systems that are compatible with the architecture of the building: hidden system for formal spaces, more exposed systems possible in industrial or secondary spaces
2. Don't cut exterior historic building walls to add through-wall heating and air conditioning units. These are visually disfiguring, they destroy historic fabric, and condensation runoff from such units can further damage historic materials.

The proposed mini split is located on the western façade, 75 feet from the adjacent property and 60 feet from the northern property lone tucked away against the building. Changes in technology **haves** made mini splits a popular cost-effective solution to heating and cooling for older buildings. The proposed mini split meets the standards for HVAC in that it is not easily viewed from the right-of-way. The only issue is ductwork and removing a portion of historic material. The foundation is made from thick stone and drilling would be impractical so the applicant will be trying to use existing openings in the house. Two preexisting openings are present at this location to utilize. In an email from the applicant he stated their intent is to use existing openings and only look at drilling if the openings could not house the small tube/ducts.

Recommendations:

Staff recommends **APPROVAL for the installation if the applicant does not destroy historic material.**

Exhibits

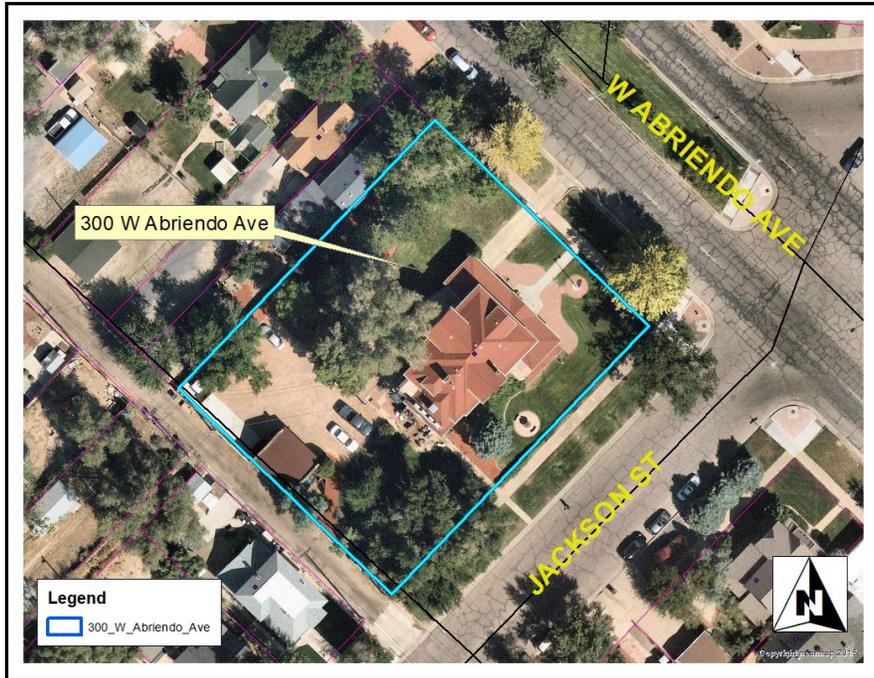
- A. Findings of Fact

- B. Aerial image of the property
- C. Photographs of the existing building and windows
- D. Applications and attachments

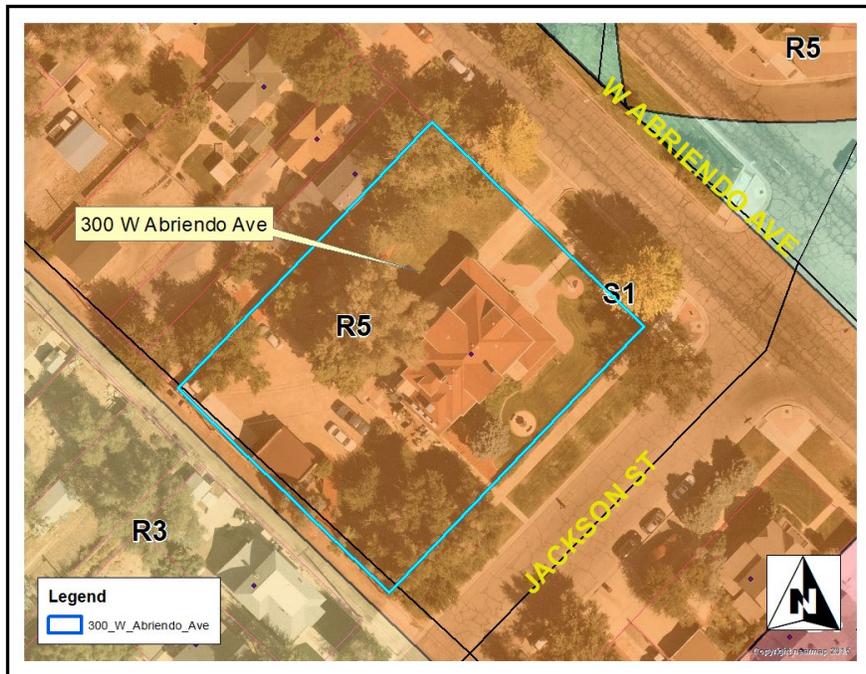
Exhibit A. Findings of Fact for a Certificate of Appropriateness

FINDINGS OF FACT FOR CERTIFICATE OF APPROPRIATENESS REQUIREMENTS:

1. Conform to the intent and purpose of this code.
 - **Comments:**
Affirmative finding, because the proposed project considers Standards of Appropriateness, the project is mostly out of view and will use existing ductwork or openings.
2. Preserve the special character, interest, and value of the landmark or historic district and its environs.
 - **Comments:**
Affirmative finding, the project is very minor and easily reversible and will not degrade the character.
3. Not be an adverse impact on the exterior features of the landmark.
 - **Comments:**
Affirmative finding, the impact is minor and will use existing penetrations making it low profile and reversible.



(A) LOCATION



(B) ZONING



(C) SITE PHOTOGRAPHS



Abriendo Inn
300 W Abriendo Ave
Pueblo, CO 81004

PROJECT DESCRIPTION

Applicants plan to have R Buick Heating & AC install a single ductless, LG mini-split, heat pump system: one 18K ton mini-split outdoor unit, one 18K ton indoor unit; one refrigeration line with shielded control wire for indoor unit. with one refrigeration exterior drain line to serve the main floor "Walter's suite". The outdoor unit will be located on the concrete below the Northside exterior window of bedroom. Refrigerant lines and electrical wire will be brought through an exterior wall penetration.

Job Name/Location:

Tag #:

Date: _____ For: File Resubmit
 PO No.: _____ Approval Other _____
 Architect: _____ GC: _____
 Engr: _____ Mech: _____
 Rep: _____
 (Company) _____ (Project Manager) _____



LS180HEV1
 Mega 220V Single Zone Inverter
 Outdoor Unit (ODU) - LSU180HEV1 Indoor Unit (IDU) - LSN180HEV1



Performance:

Cooling:

Capacity (Min/Rated/Max) (Btu/h)	3,685~17,000~18,493
SEER	18.0
EER	10.97

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Capacity (Min/Rated/Max) (Btu/h)	3,685~19,000~22,997
HSPF	9.0

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB
 Heating Nominal Test Conditions: Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB

Electrical:

Power Supply (V ¹ /Hz/Ø)	208-230/60/1
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Outdoor Unit:

MOP (A)	20
MCA (A)	12
Cooling Rated Amps (A)	9.61
Heating Rated Amps (A)	9.41
Compressor (A)	8.81
Fan Motor (A)	0.4

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	1.55
Heating Power Input (kW)	1.59

Piping:

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	1/2
Additional Refrigerant (oz/ft)	0.33
Max Pipe Length (Min/Max) (ft) ²	9.8/65.6
Piping Length (no add'l refrigerant, ft)	24.6
Max Elevation (ft)	32.8

Controls Features:

- 24-Hour on/off timer
- 2-Way (up/down) auto swing
- Auto changeover
- Auto restart
- Condensate sensor connection
- Energy saving
- Inverter (variable speed compressor)
- Jet cool/Jet heat
- Self-cleaning indoor coil
- Sleep mode
- Ultra quiet operation

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14-118
Heating (°F WB)	14-65

Indoor Unit:

Cooling (°F WB)	53-75
Heating (°F DB)	60-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	2.34
ODU Sound Pressure (±3 dB(A)) ³	51
IDU Sound Pressure ±3 (H/M/L/Sleep) dB(A) ³	42/40/35/29
ODU Net Unit Weight (lbs)	76
ODU Shipping Weight (lbs)	81
IDU Net Unit Weight (lbs)	28
IDU Shipping Weight (lbs)	33
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heating)	4/4/4
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max Air Flow Rate (CFM)	1,342
IDU Air Flow Rate H/M/L (CFM)	512/441/353
Dehumidification (pts/hr)	3.39

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
4. All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft above sea level, with 24.6 ft of refrigerant line and a 0 ft level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.



Outdoor Unit (ODU) - LSU180HEV1
 Mega 220V Single Zone Inverter



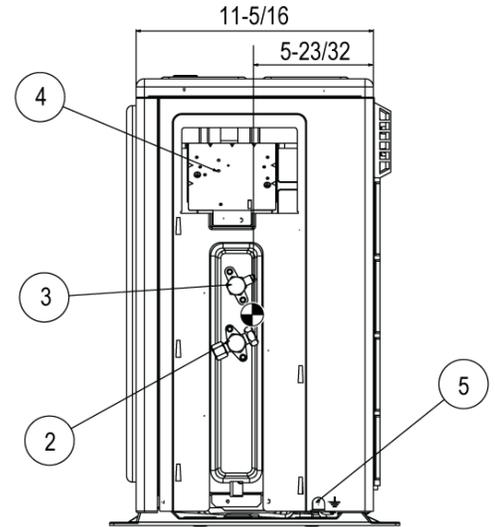
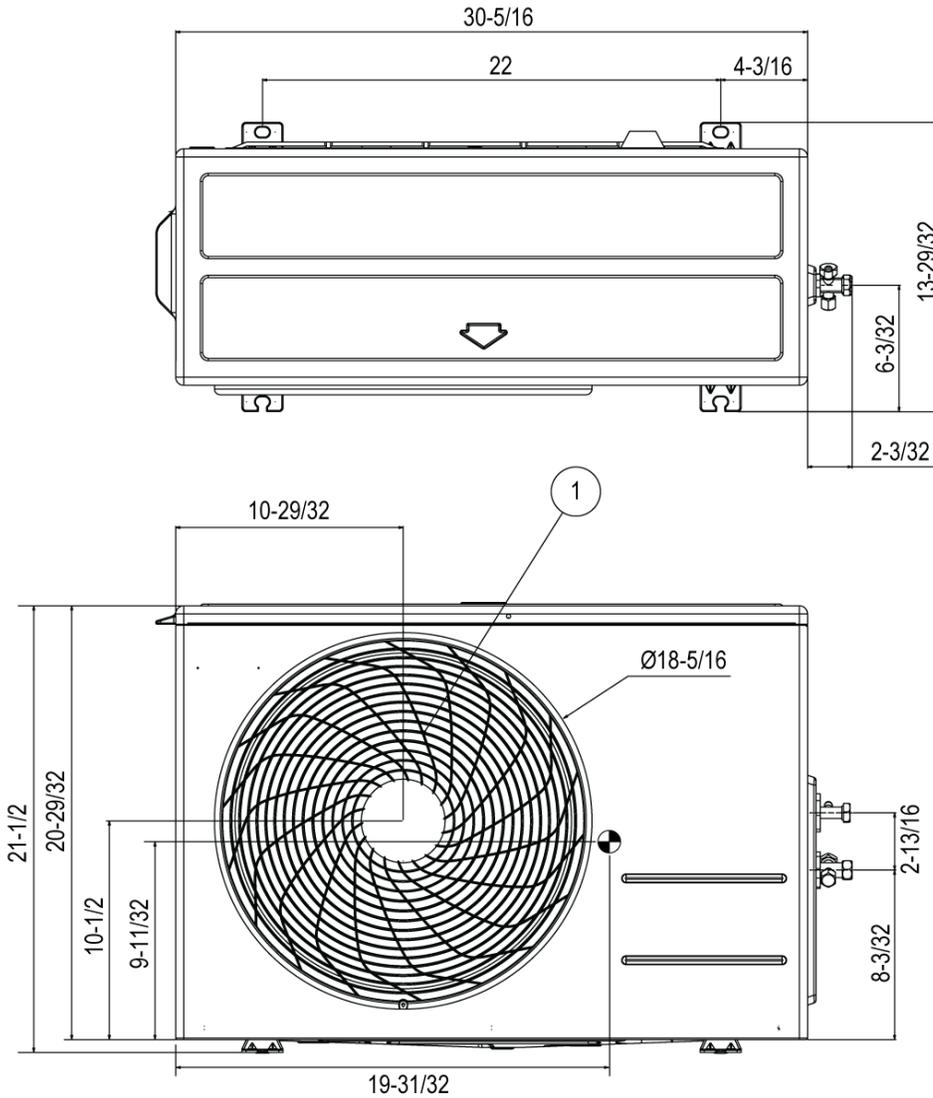
LG

Life's Good

Tag #:

Date:

PO No.:



Center of gravity

Unit : inch

Item No.	Part Name	Remark
1	Air Discharge Grille	
2	Gas Pipe Connection Port	
3	Liquid Pipe Connection Port	
4	Control Box	
5	Earth Screw	

Indoor Unit (IDU) - LSN180HEV1
Mega 220V Single Zone Inverter



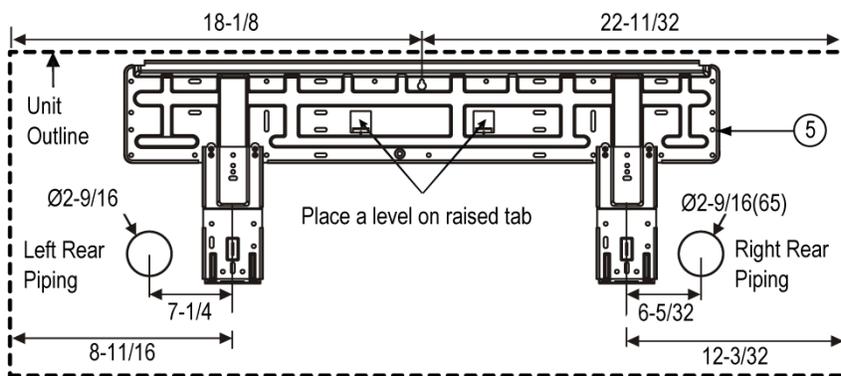
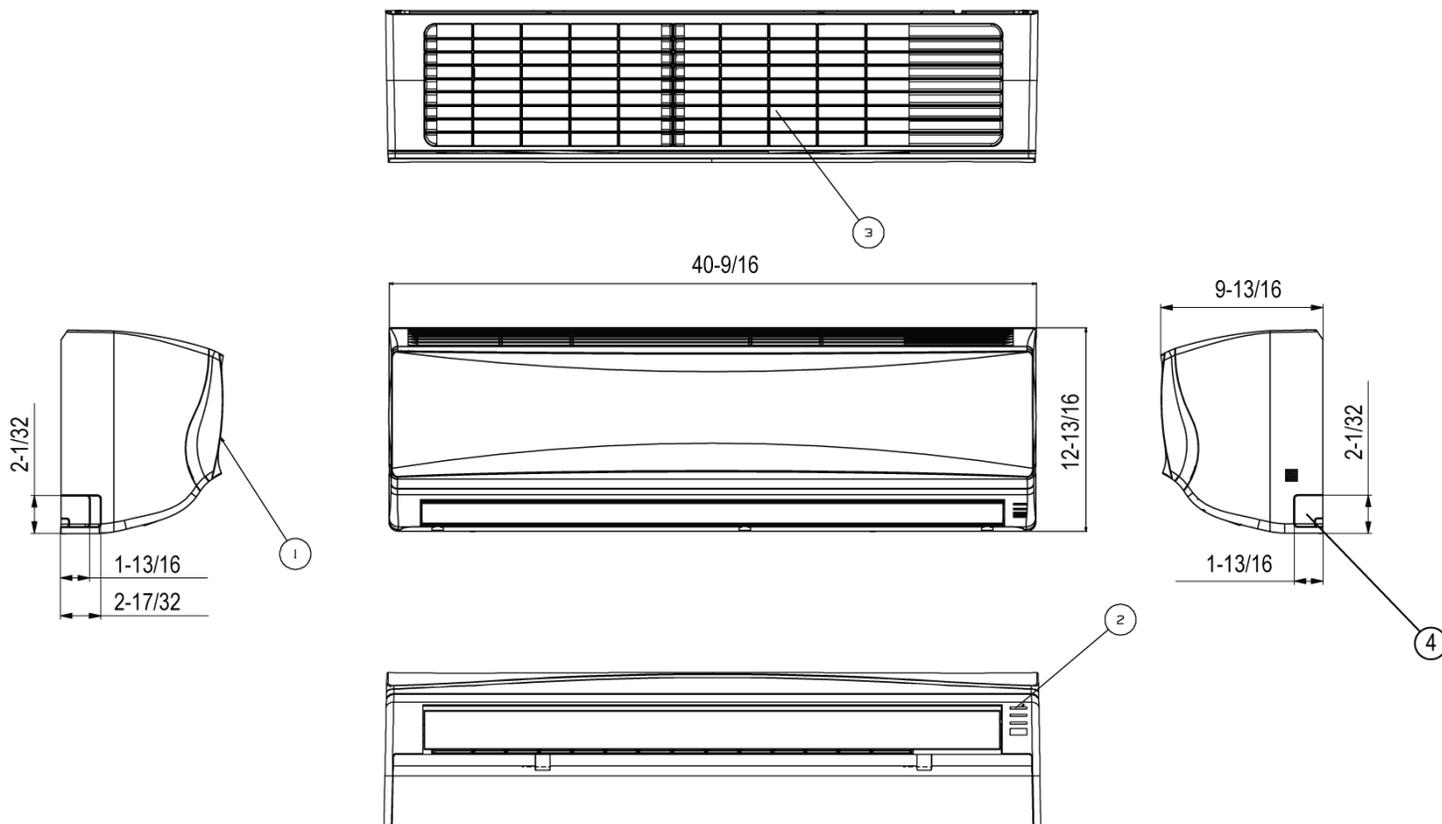
LG

Life's Good

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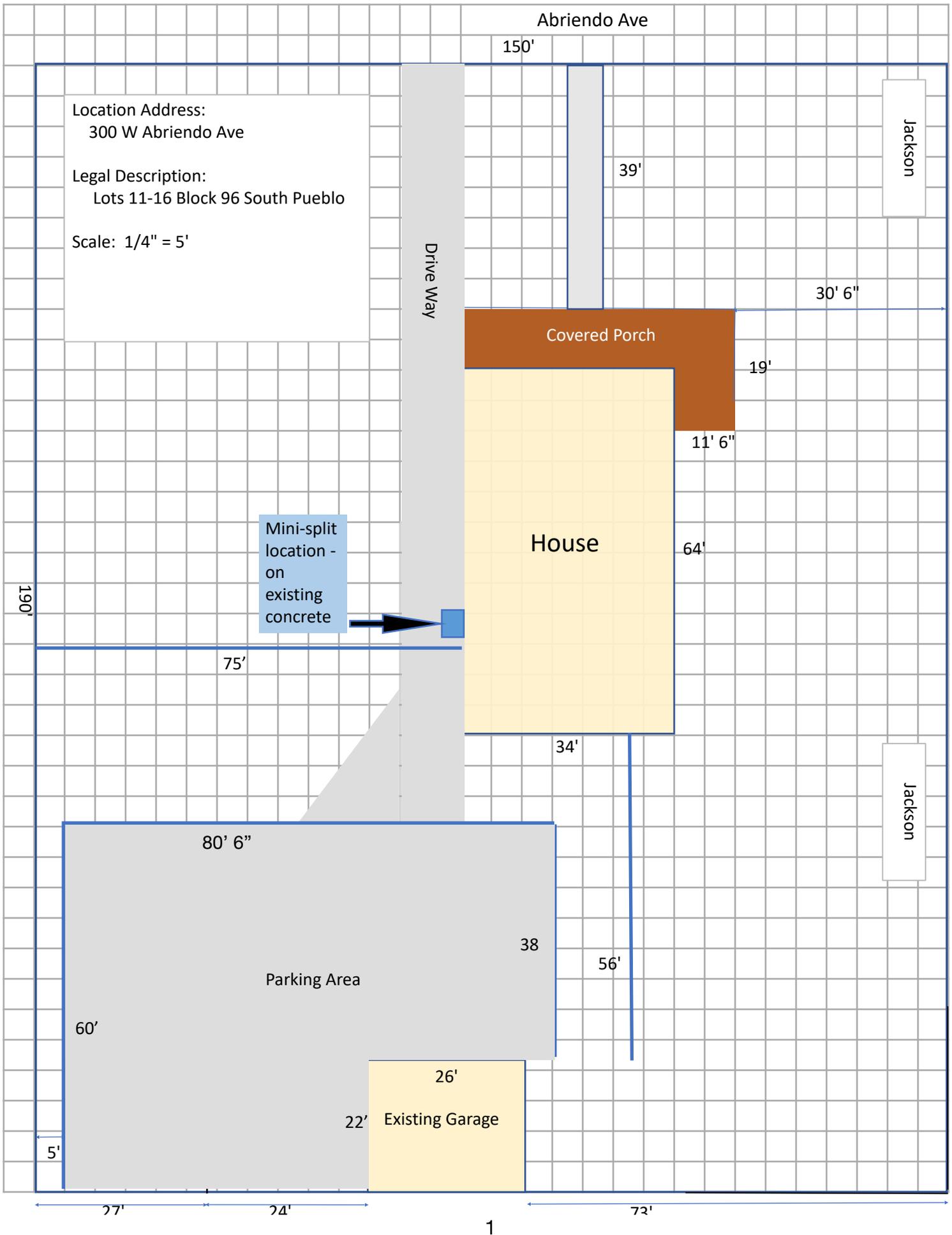
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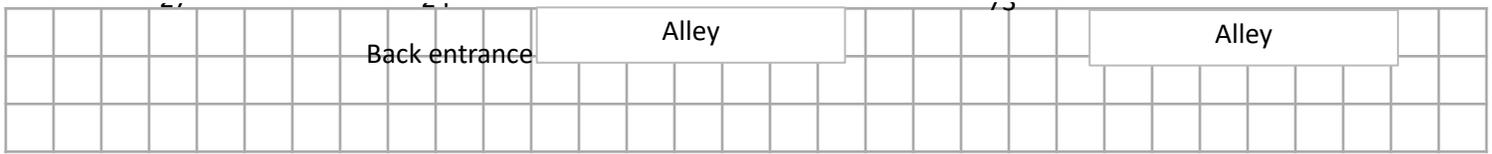


Unit : inch

Item No.	Part Name	Remark
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	



Jeff





ROENIG
WOOD & COAL GRATE
NO 2
PAT'D NOV 7 1905
MANUFACTURED
BY GRAND RAPIDS
FOUNDRY CO
GRAND RAPIDS
WISCONSIN

**Mini-split Outdoor
Unit Location on
existing concrete**