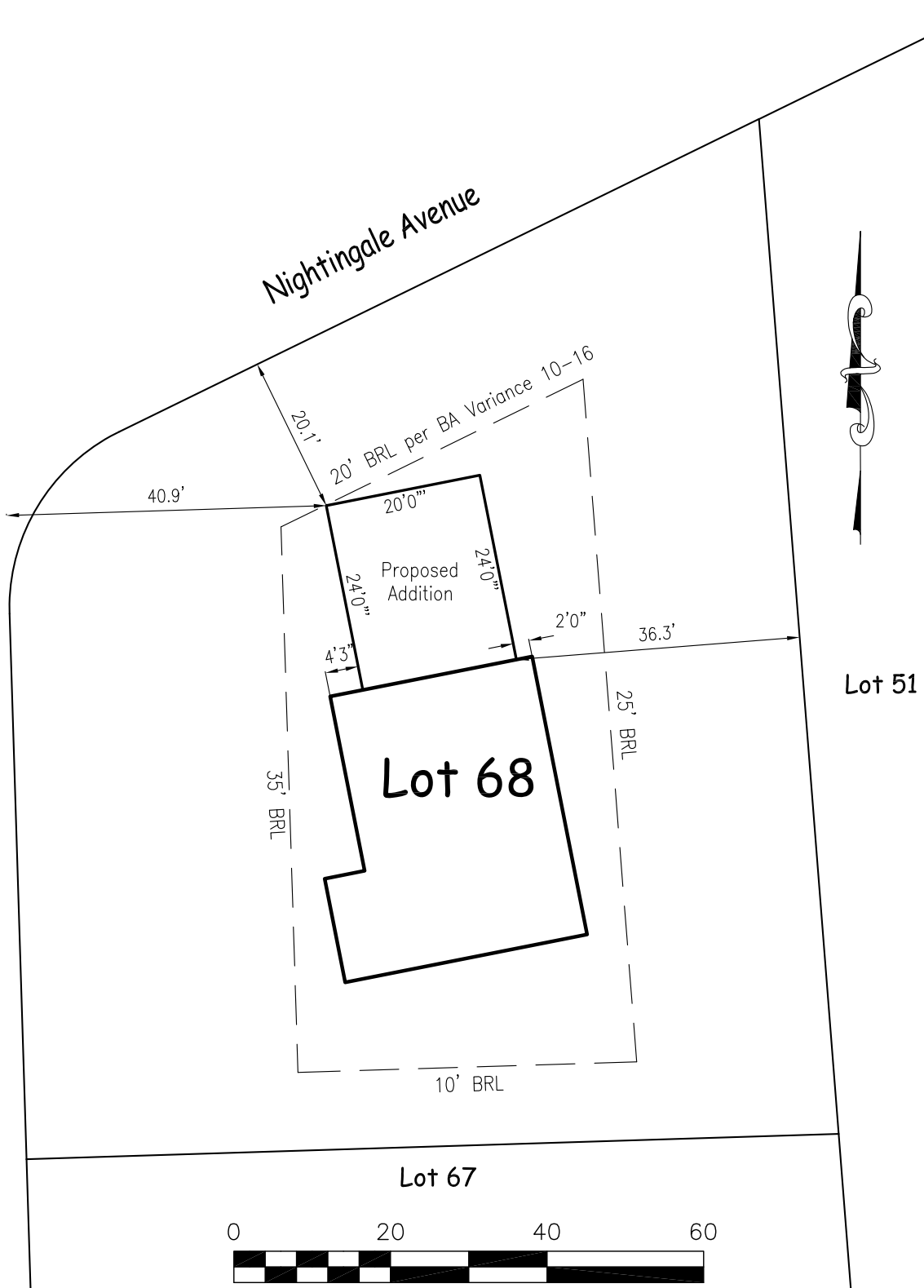
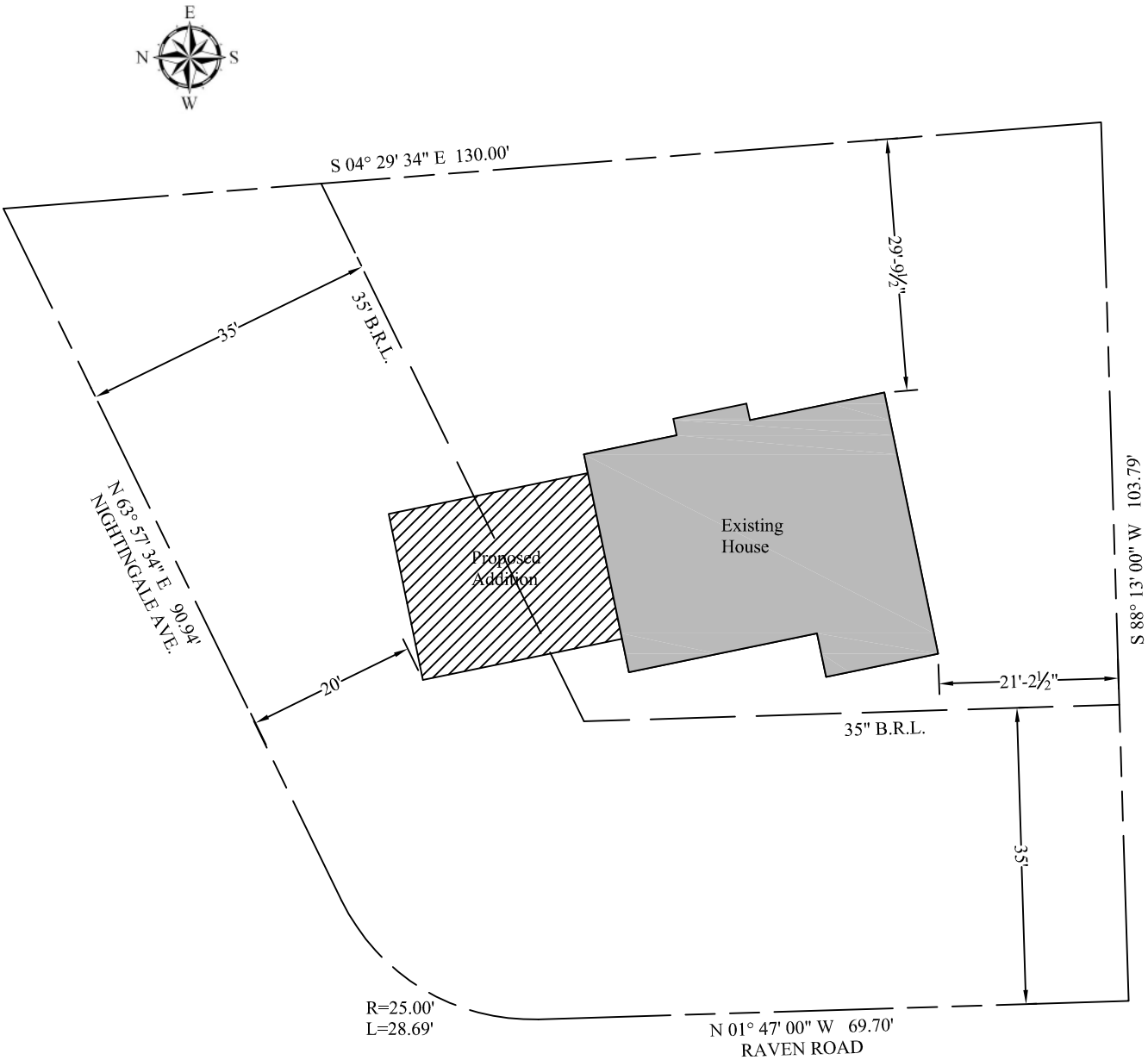
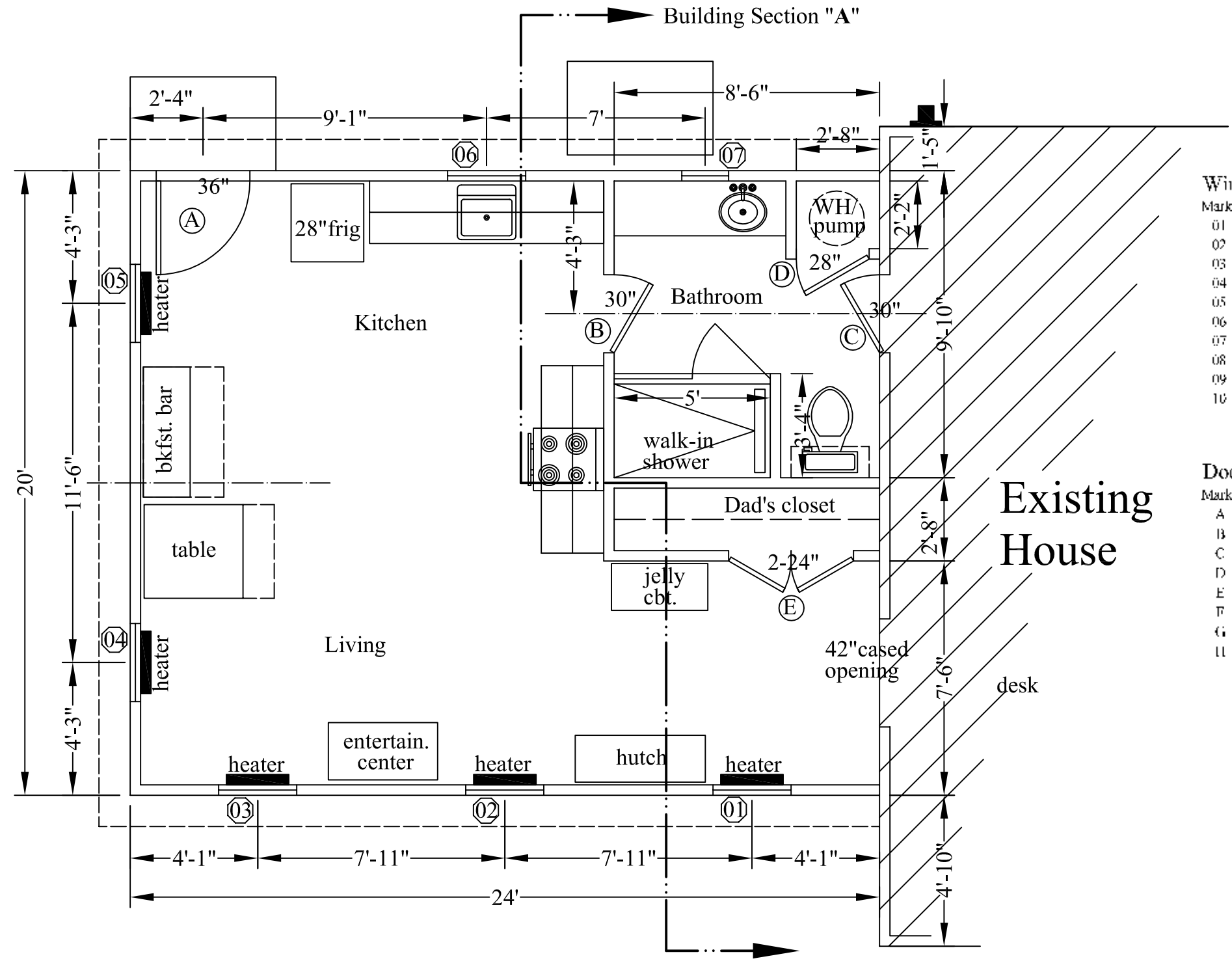


Survey Sketch from Mike Artz 20160818



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Window Schedule

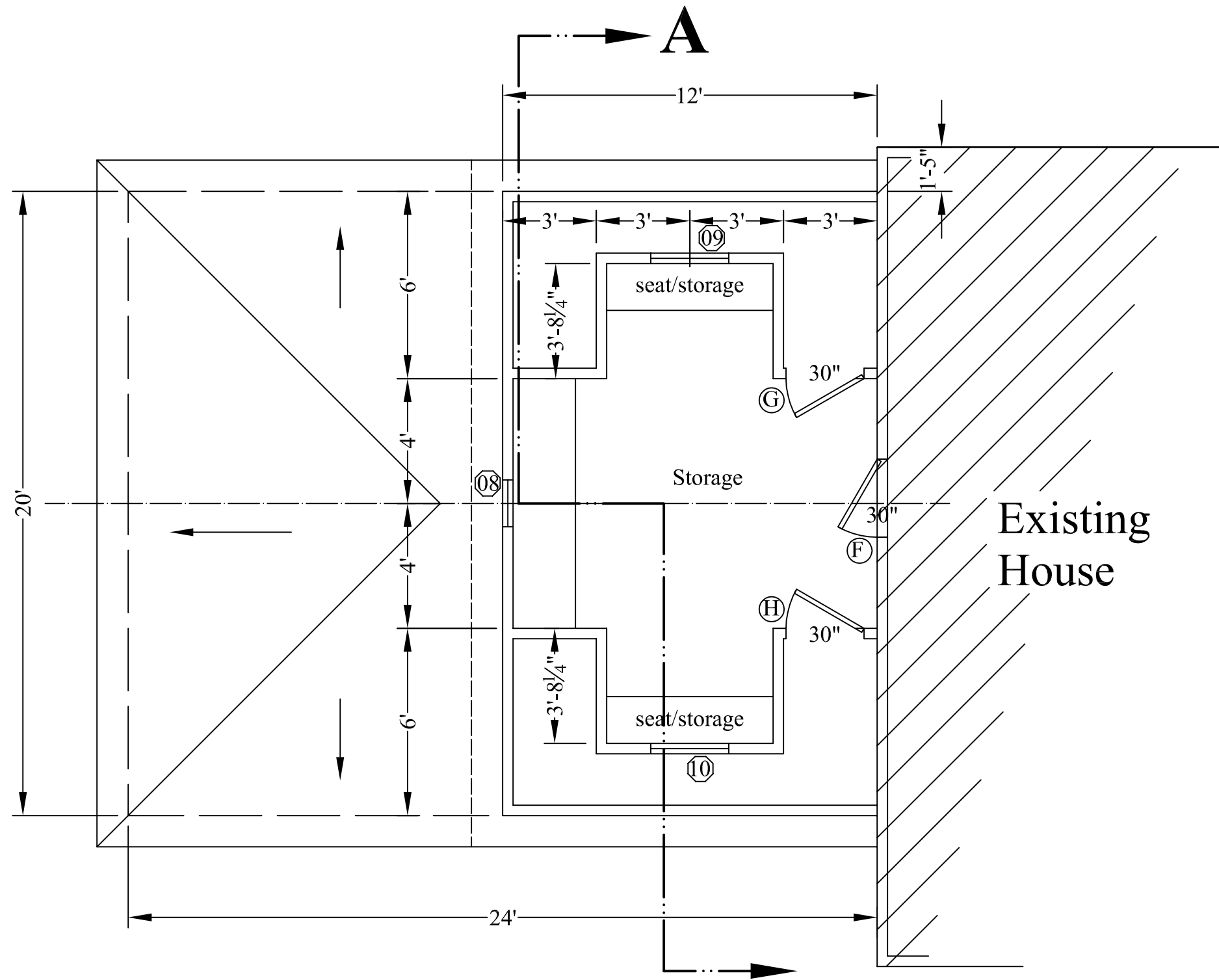
Mark	Size	Description	Source	Notes
01	30"x48"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
02	30"x18"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
03	30"x48"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
04	30"x48"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
05	30"x18"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
06	30"x36"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
07	18"octagon	double hung vinyl	Window Man	diamond grid, std.casing
08	18"octagon	double hung vinyl	Window Man	diamond grid, std.casing
09	30"x42"	double hung vinyl	Window Man	diam. grid top pane only. std.casing
10	30"x42"	double hung vinyl	Window Man	diam. grid top pane only. std.casing

Door Schedule

Mark	Size	Description	Source	Notes
A	36"x80"	Metal front entry	Window Man	glass top half w. diamond grid
B	30"x80"	Interior pre-hung 6 panel	TBD	standard casing
C	30"x80"	Interior pre-hung 6 panel	TBD	standard casing
D	28"x80"	Interior pre-hung 6 panel	TBD	standard casing
E	2-24"x80"	Interior pre-hung 6 panel	TBD	standard casing
F	30"x80"	Interior pre-hung 6 panel	TBD	standard casing
G	30"x48"	Interior pre-hung 4 panel	TBD	standard casing
H	30"x48"	Interior pre-hung 4 panel	TBD	standard casing

1st Floor Plan
Area=480sf
Perim.=68'-0"(new)

For Review
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2nd Floor Plan

Area=240sf
Perim.=44'-0"(new)

For Review
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Scale: 1/4"=1'-0" on 11x17 paper
Date: 2016-09-13

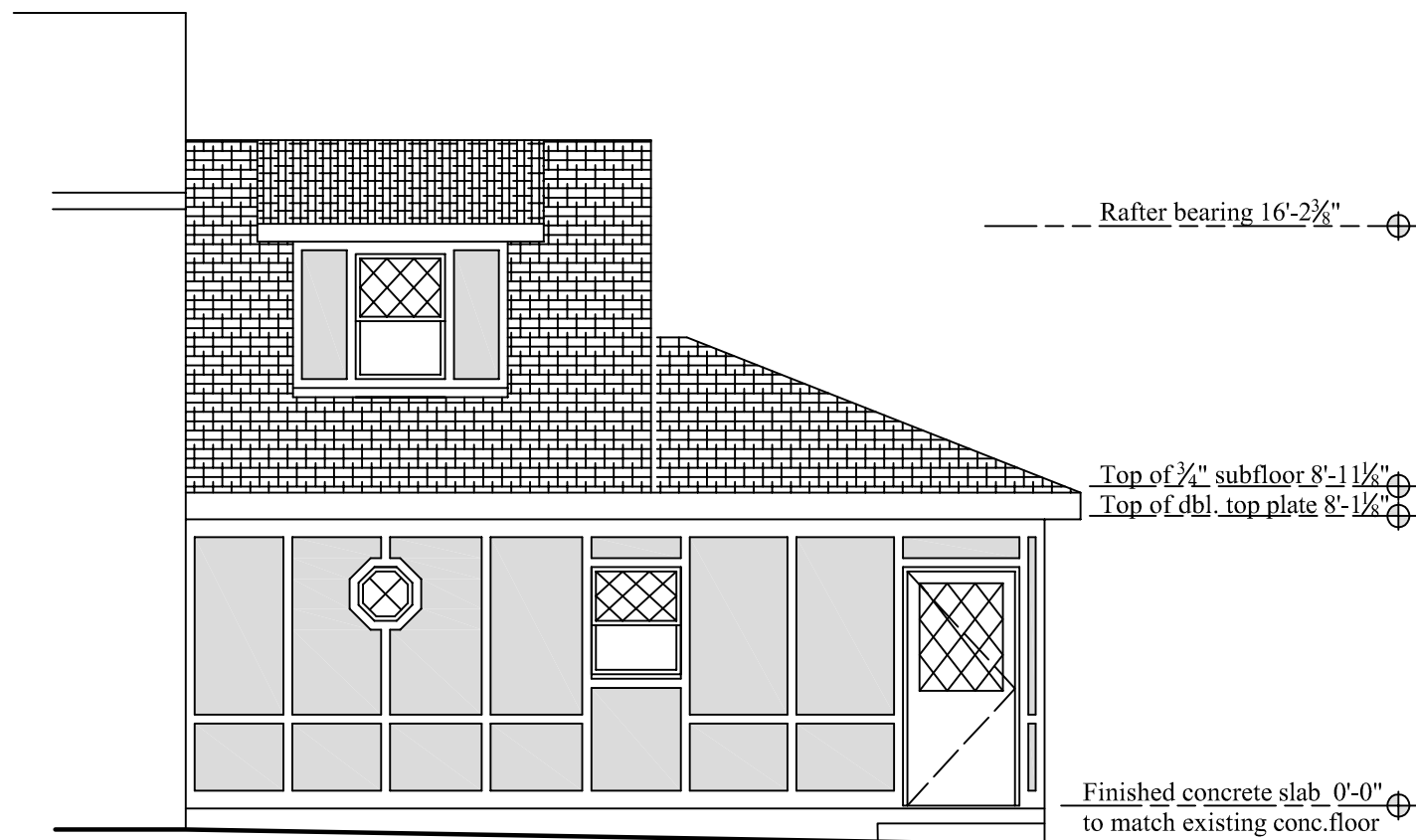
Dave & Kate Dentel
Addition
102 Raven Rd, Stephens City VA 22655



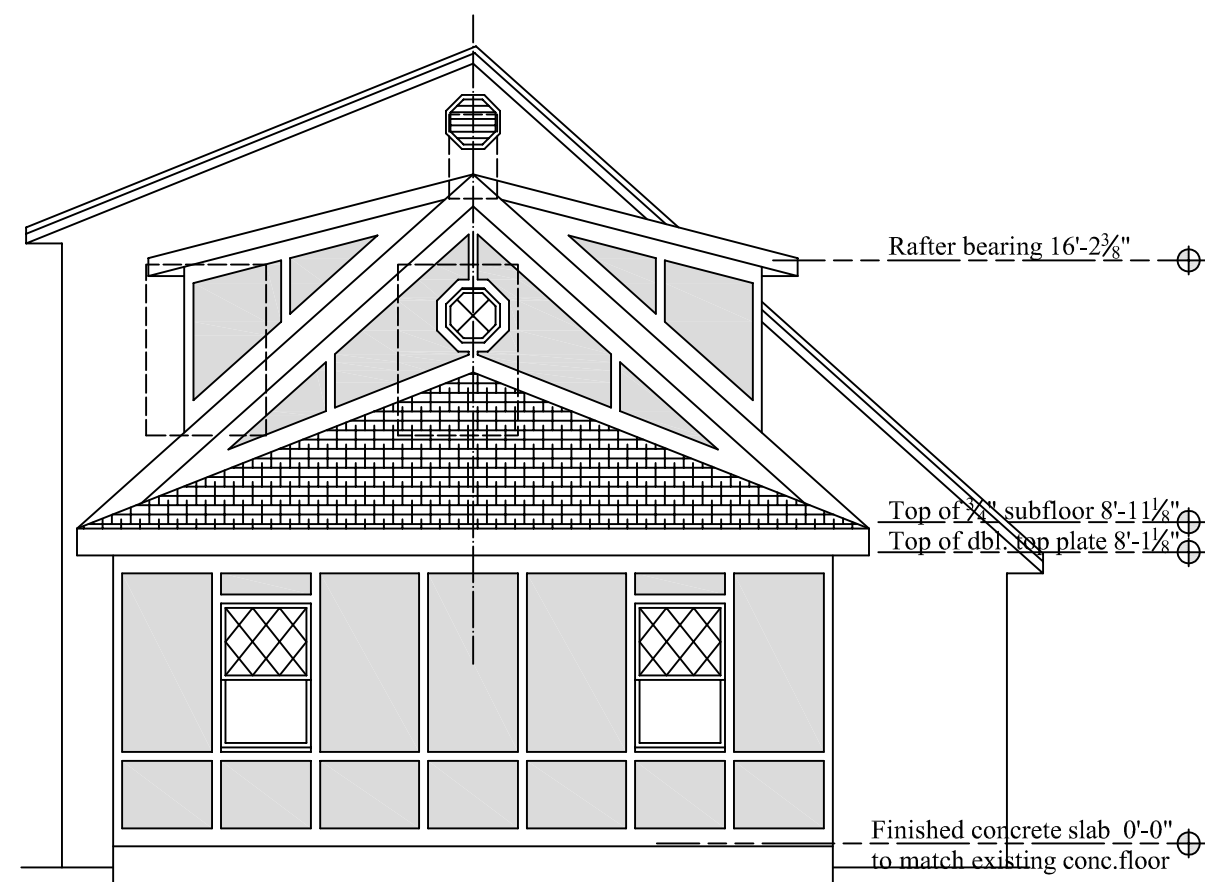
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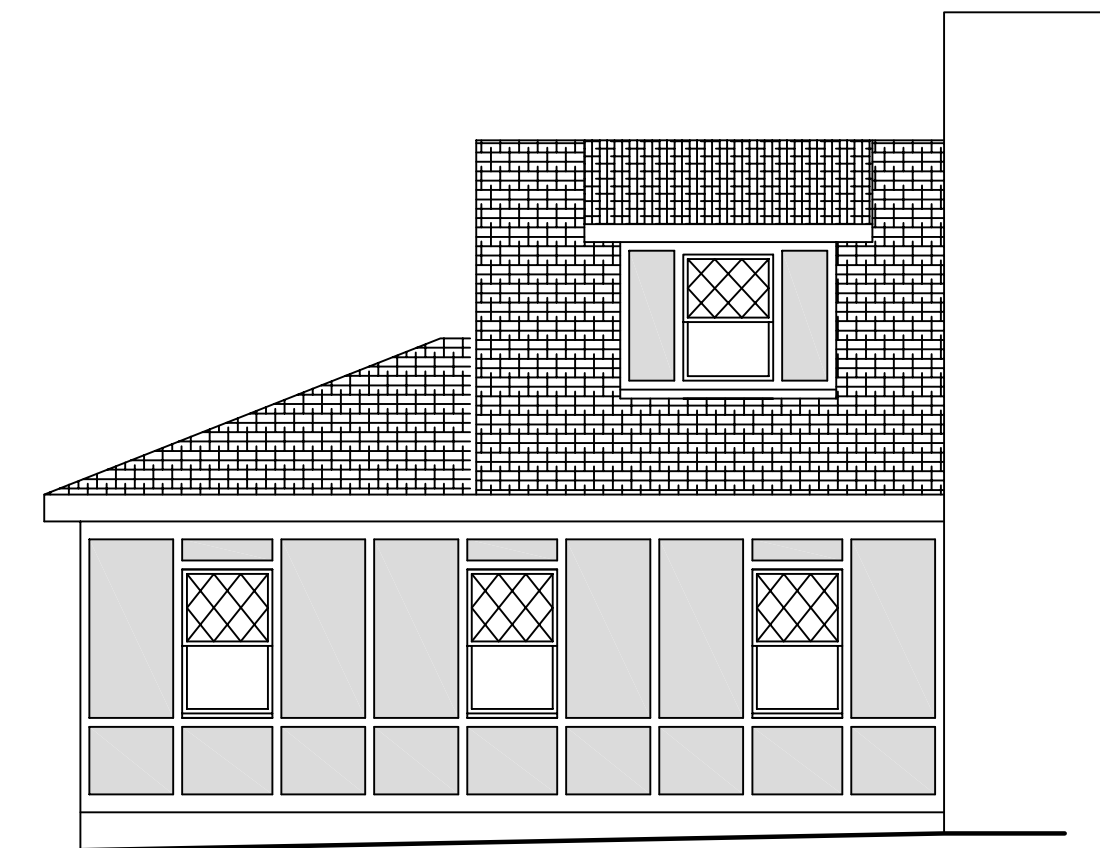
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Date: 2016-09-13



EAST Elevation



NORTH Elevation



WEST Elevation

For Review
09/09/2016 3:55:54 PM



Asphalt Architectural shingles
on 30 lb. felt
on $\frac{1}{2}$ " roof sheathing
on 2x10 rafters at 24"OC
w. min. R-30 insulation

2x4 dbl top plate

$\frac{1}{2}$ " drywall finish

Drip edge

Hardie products
fascia, soffit,
wall panels
and trim

Windows from the
Window Man

Min. R-19
insulation

$\frac{1}{2}$ " drywall

Standard builder base
and window casing

Rafter bearing 16'-2 $\frac{3}{8}$ "

7'-3 $\frac{1}{4}$ "

6'-8"

Top of $\frac{3}{4}$ " subfloor 8'-1 $\frac{1}{8}$ "

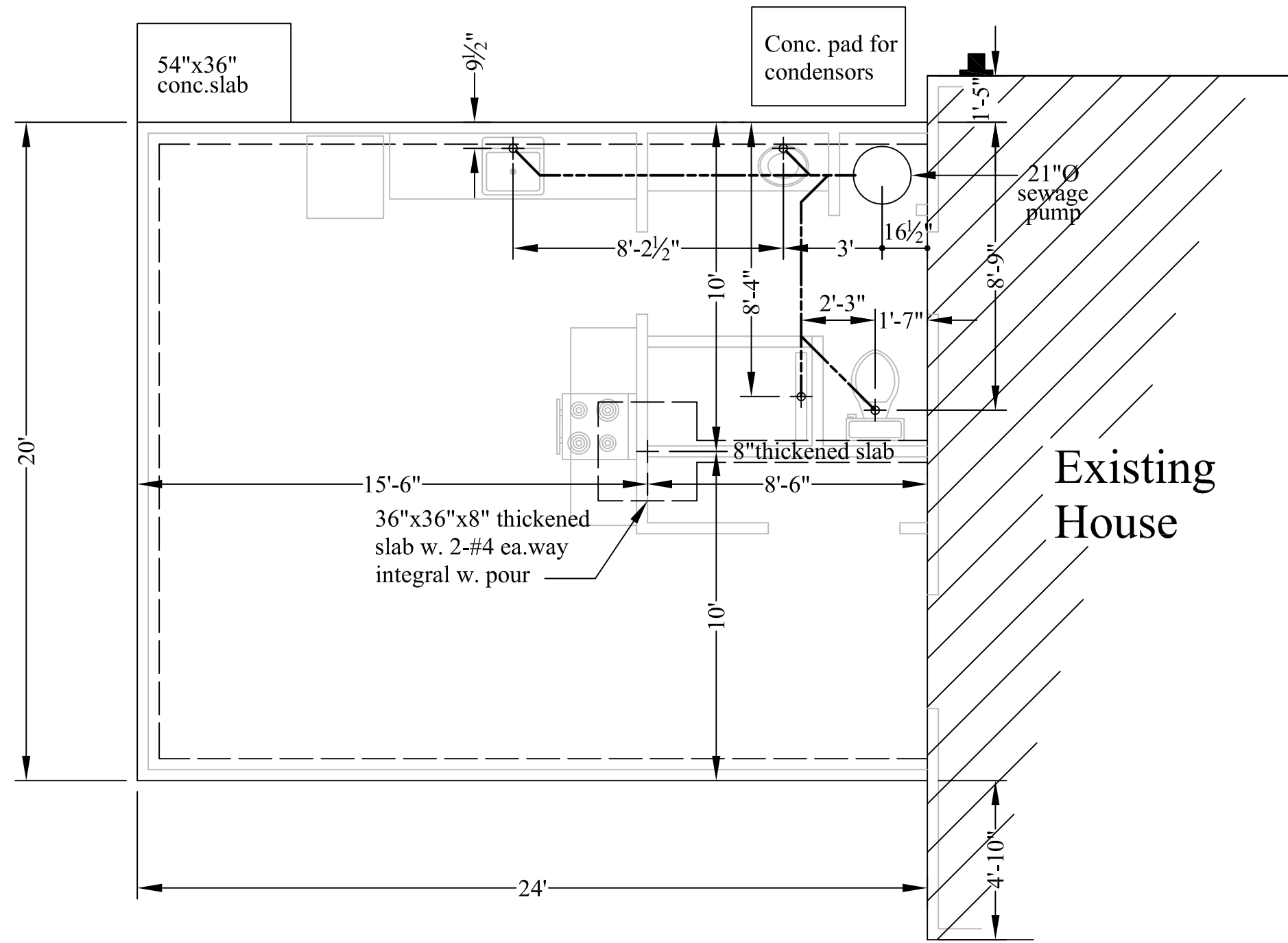
Top of dbl. top plate 8'-1 $\frac{1}{8}$ "

Finished concrete slab 0'-0"
to match existing conc.floor

Building Section "A"

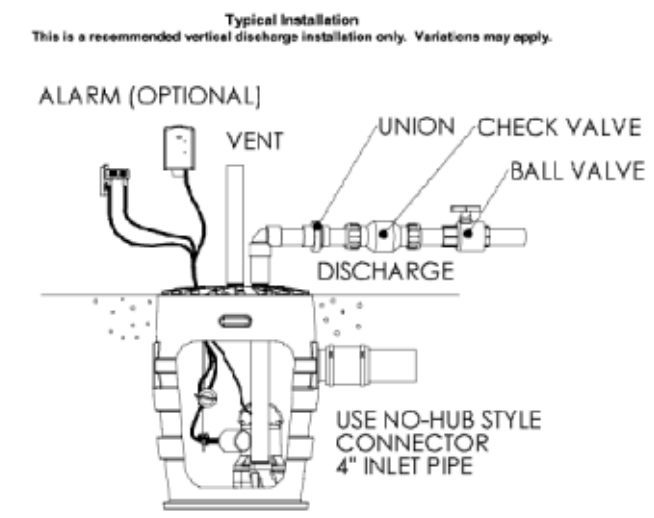
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Scale: $\frac{3}{8}$ "=1'-0" on 11x17 paper Date: 2016-09-13



Foundation/Slab Plan

For Review
09/09/2016 3:56:06 PM



Sewage Pump Detail

Not to scale

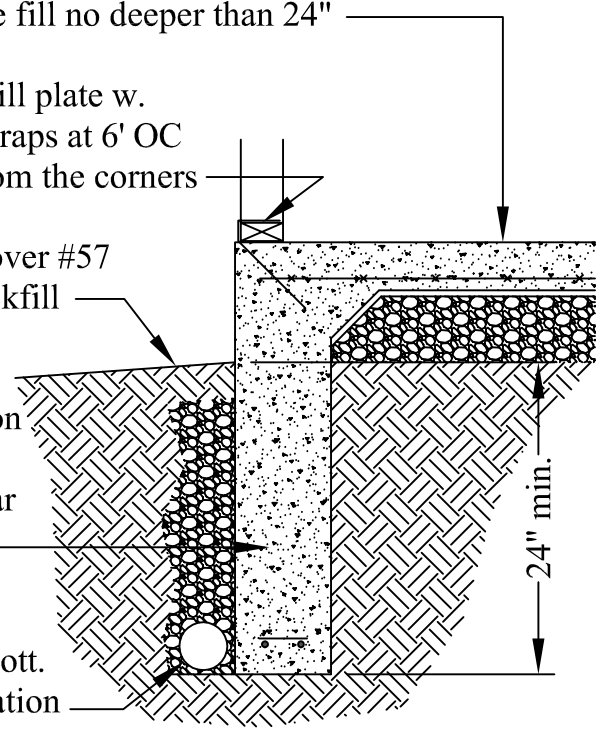
4" conc. slab w. 6x6 WWF on min. 6 mil poly vapor barrier on #57 stone fill no deeper than 24"

PT 2x4 sill plate w. anchor straps at 6' OC & 12" from the corners

Topsoil over #57 stone backfill

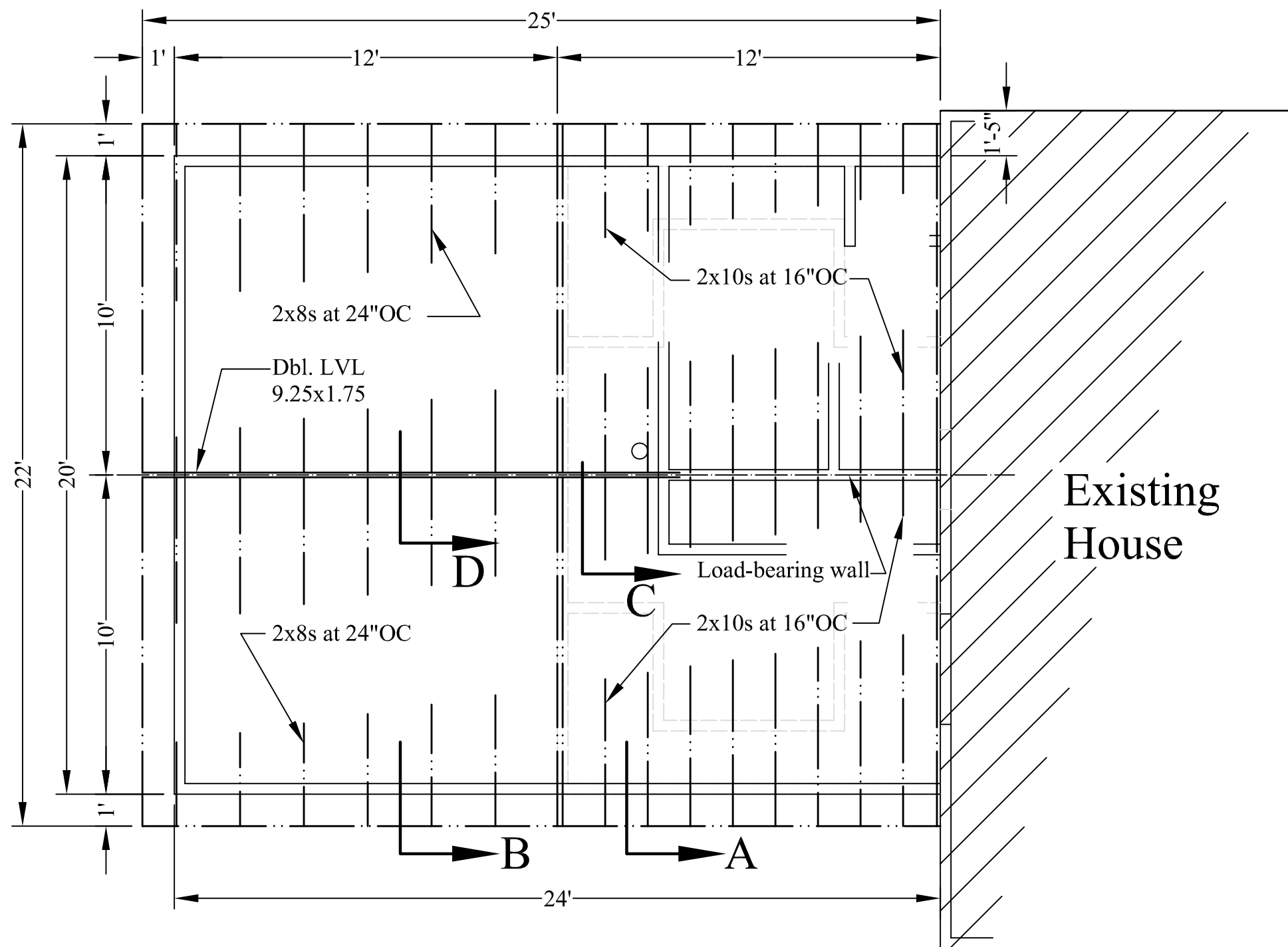
8" conc. foundation wall w. 2-#4 rebar cont.

Draintile cont. at bott. of foundation



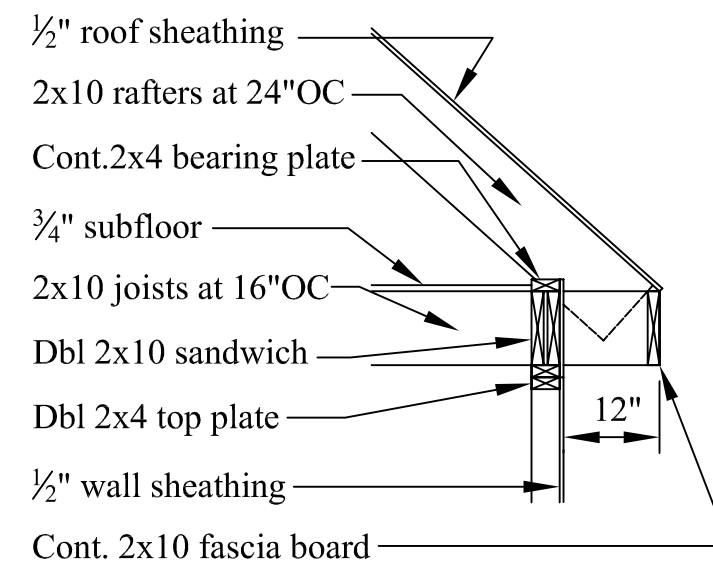
Typical Foundation Detail

Scale: 3/4"=1'-0"

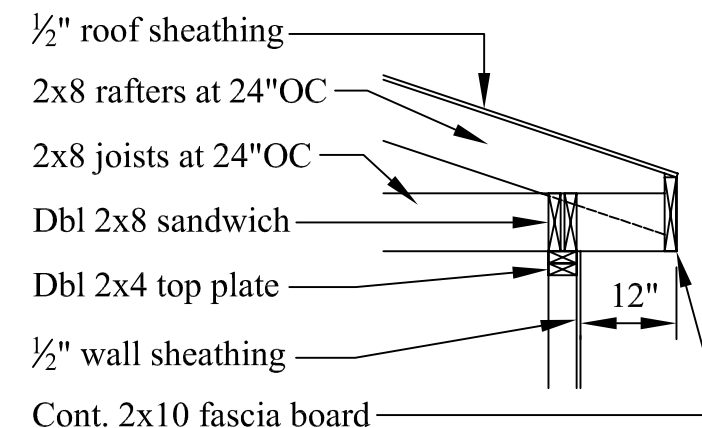


2nd Floor Framing Plan

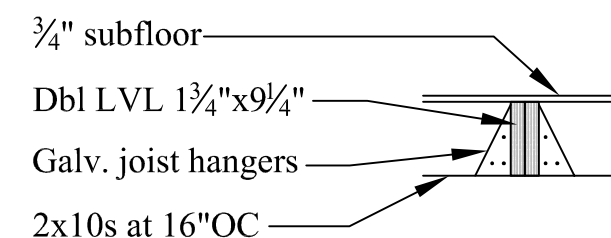
For Review
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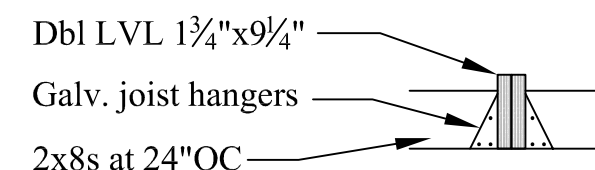
Detail A [this page](#)



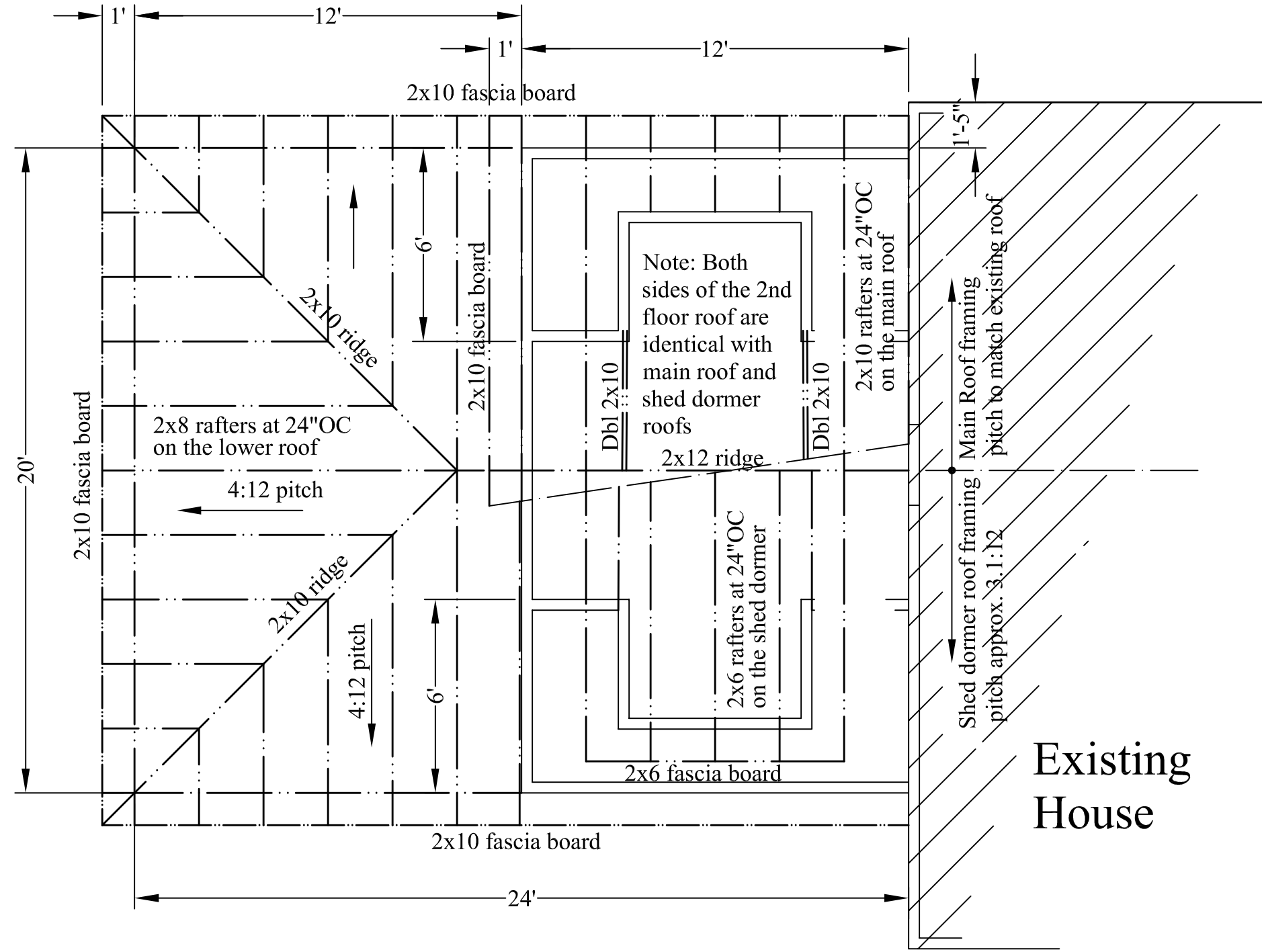
Detail B [this page](#)



Detail C [this page](#)



Detail D [this page](#)



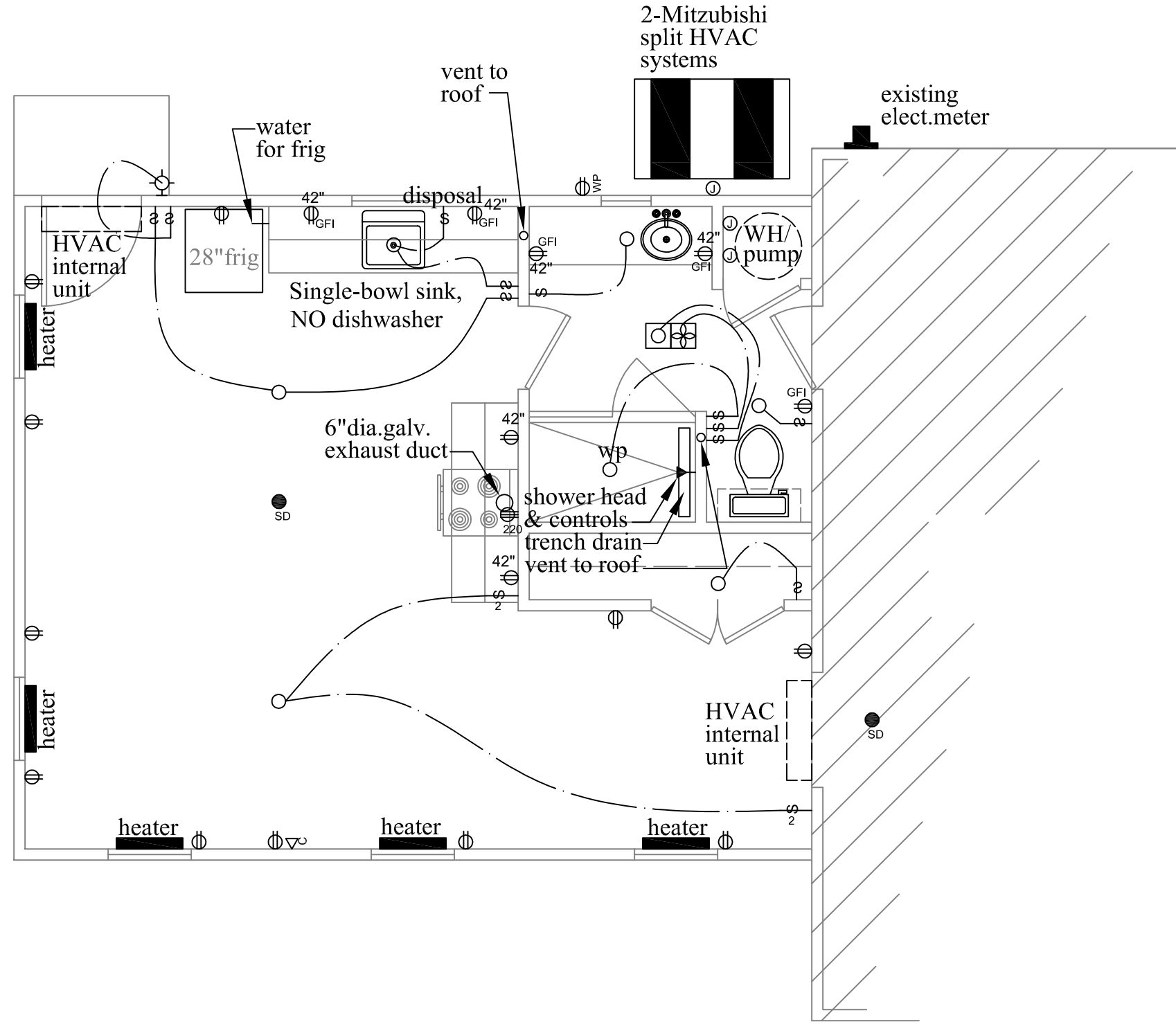
Roof Framing Plan

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Scale: 1/4"=1'-0" on 11x17 paper
 Date: 2016-09-13

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 Addition
 102 Raven Rd, Stephens City VA 22655





ELECTRICAL SYMBOLS

- ⊕ Duplex outlet 18" AFF U.O.N.
- ⊕_{WP} Duplex outlet waterproof
- ⊕_{GFI} Duplex out w. ground fault circuit interrupter
- ⊕₂₂₀ 220 volt outlet
- Ⓜ Junction box
- ⌞ Cable
- ⊕ Wall light
- Ceiling light
- _{SD} Smoke detector
- ⌞ Single pole switch
- ⌞₂ Double pole switch
- Ⓜ Thermostat
- ⊕ Fan
- ⊕ Heat lamp

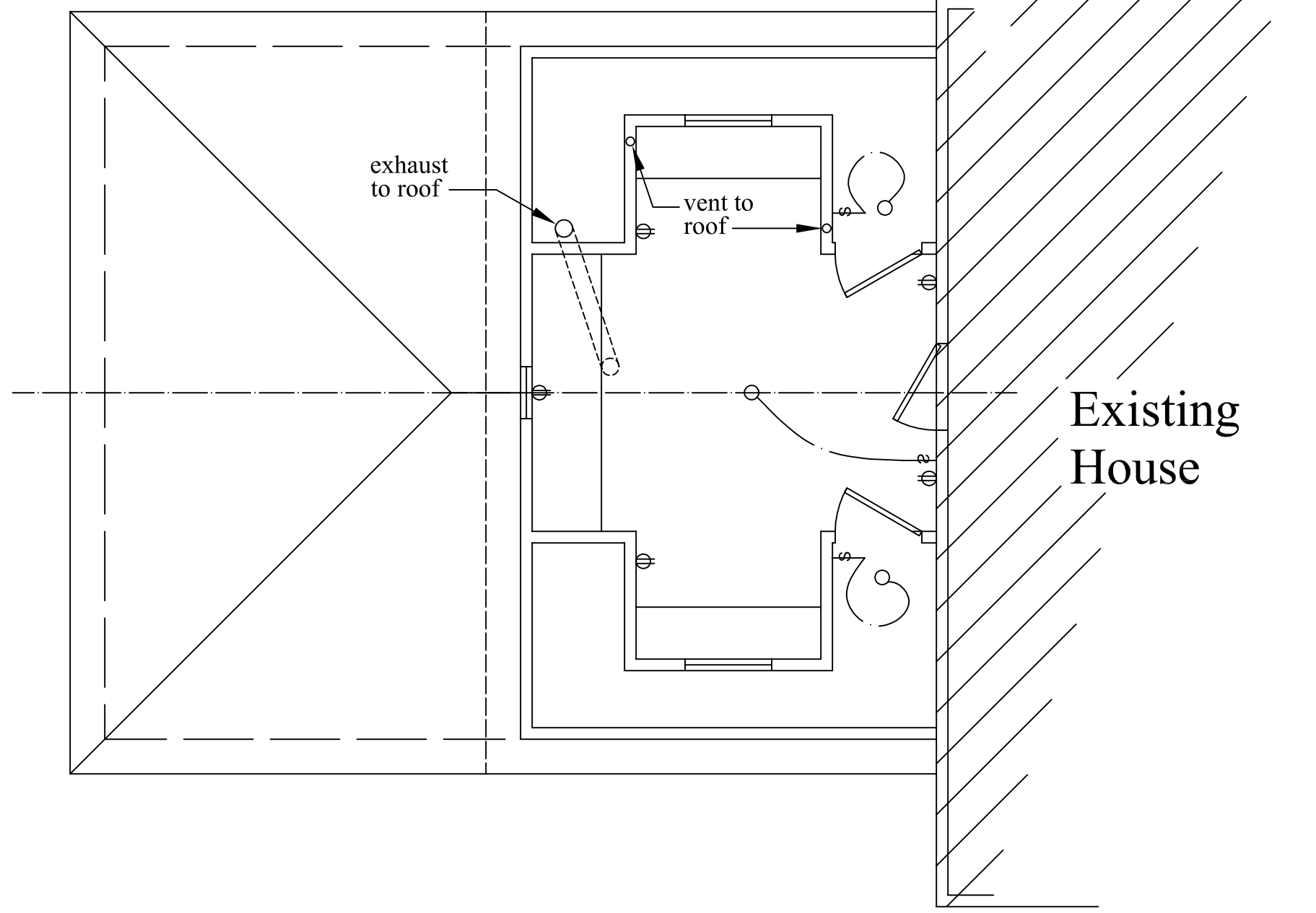
1st Floor El./Mech./Plmb. Plan

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09/09/2016 3:57:54 PM

Scale: 1/4"=1'-0" on 11x17 paper
Date: 2016-09-13

Dave & Kate Dentel
Addition
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2nd Floor El./Mech./Plmb. Plan

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Scale: 1/4"=1'-0" on 11x17 paper
Date: 2016-09-13

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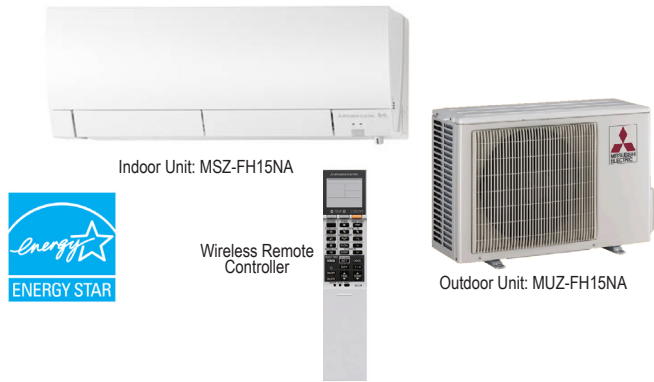


COOLING & HEATING



SUBMITTAL DATA: MSZ-FH09NA & MUZ-FH09NA
9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐ Reference ☐ Approval ☐ Construction	
System Designation:	Schedule No.:	



GENERAL FEATURES

- Highly energy-efficient system that features 100% heating capacity at 5°F, 82% at -4°F, and 62% at -13°F
- Updated sleek, compact indoor unit design
- Includes Standard, Platinum Deodorizing, and Anti-allergy Enzyme filters for a complete air purifying system
- “Powerful Mode” function permits system to temporarily run at a lower/higher temperature with an increased fan speed, which quickly brings the room to the optimum comfort level
- Integrated i-see Sensor automatically adjusts the unit’s operation according to temperature differences detected between the floor and the intake air, ensuring optimum comfort and energy usage
- Hand-held Wireless Remote Controller
- Base heater is available as an option
- Limited warranty: five years parts and seven years compressors

ACCESSORIES

Outdoor Unit

- ☐ Base Heater (MAC-640BH-U)
- ☐ Drain Socket (MAC-851DS)

Indoor Unit

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- ☐ Replacement Platinum Deodorizing Filter (MAC-308FT)
- ☐ Replacement Anti-allergy Enzyme Filter (MAC-418FT; MERV 8)

Controller Options

- ☐ Wireless Wall-mounted Remote Controller Kit (MHK1)*
- ☐ Portable Central Controller (MCCH1)*
- ☐ Outdoor Air Sensor (MOS1)*
- ☐ Wired Wall-mounted Controller (PAR-31MAA requires MAC-333IF)*
- ☐ Simple MA Remote Controller (PAC-YT53CRAU requires MAC-333IF)*

*See Submittal for information on each option.

- ☐ System Control Interface (MAC-333IF)



SPECIFICATIONS: MSZ-FH09NA & MUZ-FH09NA

Cooling*1

Rated Capacity.....9,000 Btu/h
Capacity Range.....1,700 - 12,000 Btu/h
Rated Total Input560 W
Maximum Total Input.....1,000 W
SEER 30.5 Btu/h/W

Heating at 47° F*2

Rated Capacity.....10,900 Btu/h
Capacity Range.....1,600 - 18,000 Btu/h
Rated Total Input710 W
Maximum Total Input1,470 W
HSPF..... 13.5 Btu/h/W

Heating at 17° F *3

Rated Capacity.....6,700 Btu/h
Max. Capacity12,200 Btu/h
Rated Total Input600 W
Maximum Total Input1,440 W

Heating at 5° F *4

Max. Capacity10,900 Btu/h
Maximum Total Input1,500 W

Rating Conditions:

- *1 Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
- *1 Cooling | Outdoor: 95° F (35° C) DB / 75° F (24° C) WB
- *2 Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *2 Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB
- *3 Heating at 17° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *3 Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB
- *4 Heating at 5° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
- *4 Heating at 5° F | Outdoor: 5° F (-15° C) DB / 5° F (-15° C) WB

Electrical Requirements

Power Supply 208 / 230V, 1-Phase, 60 Hz
Breaker Size 15 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
Indoor - Outdoor S2-S3 DC +/- 24V
Indoor - Remote Controller MKH1 DC 3V
PAR-31MAA DC 12V
PAC-YT53CRAU DC 12V

Operating Conditons

Cooling

Indoor Intake Air Temp. . . (Max.) 90° F (32° C) DB / 73° F (23° C) WB
(Min.) 67° F (19° C) DB / 57° F (14° C) WB

Outdoor Intake Air Temp. (Max.) 115° F (46° C) DB
(Min.) 14° F (-10° C) DB

Heating

Indoor Intake Air Temp. . . (Max.) 80° F (27° C) DB / 67° F (19° C) WB
(Min.) 70° F (21° C) DB / 60° F (16° C) WB

Outdoor Intake Air Temp. (Max.)75° F (24° C) DB / 65° F (18° C) WB
(Min.) -13° F (-25° C) DB / -15° F (-26° C) WB**

** System cuts out at -18° F (-28° C) to avoid thermistor error, but recovers from cutout operation and automatically restarts at -13° F (-25° C).

Indoor Unit

MCA 1.0 A
Blower Motor (ECM).....0.67 F.L.A.
Blower Motor Output 30 W

Airflow (Lo - Med - Hi - Super Hi - Powerful)

Cooling..... 137-167-221-304-381 Dry CFM
117-143-190-261-328 Wet CFM
Heating..... 140-167-225-325-437 Dry CFM

Sound Pressure Level (Lo - Med - Hi - Super Hi - Powerful)

Cooling 20-23-29-36-40 dB(A)
Heating..... 20-24-29-36-42 dB(A)

External Finish Color Munsell 1.0Y 9.2/0.2

External Dimensions

Inches:12 + 11/16 H x 36-7/16 W x 9-3/16 D
mm: 305 +17 H x 925 W x 234 D

Weight Unit29 lbs. / 12 kg

Field Drainpipe Size O.D. 19/32 In. / 15mm

Outdoor Unit

MCA 11 A
Fan Motor (ECM) 0.50 F.L.A.

Sound Pressure Level

Cooling *1.....48 dB(A)
Heating *249 dB(A)

External Finish Color Munsell 3Y 7.8/1.1

Dimensions

Inches:.....21-5/8 H x 31-1/2 W x 11-1/4 D
mm: 550 H x 800 W x 285 D

Weight81 lbs. / 36 kg

Refrigerant Type R410A

Refrigerant Pipe

Gas Side O.D. 3/8" x 9.52 mm
Liquid Side O.D. 1/4" x 6.35 mm

Max. Refrigerant Pipe Length

Height Difference 40' / 12m
Length 65' / 20m

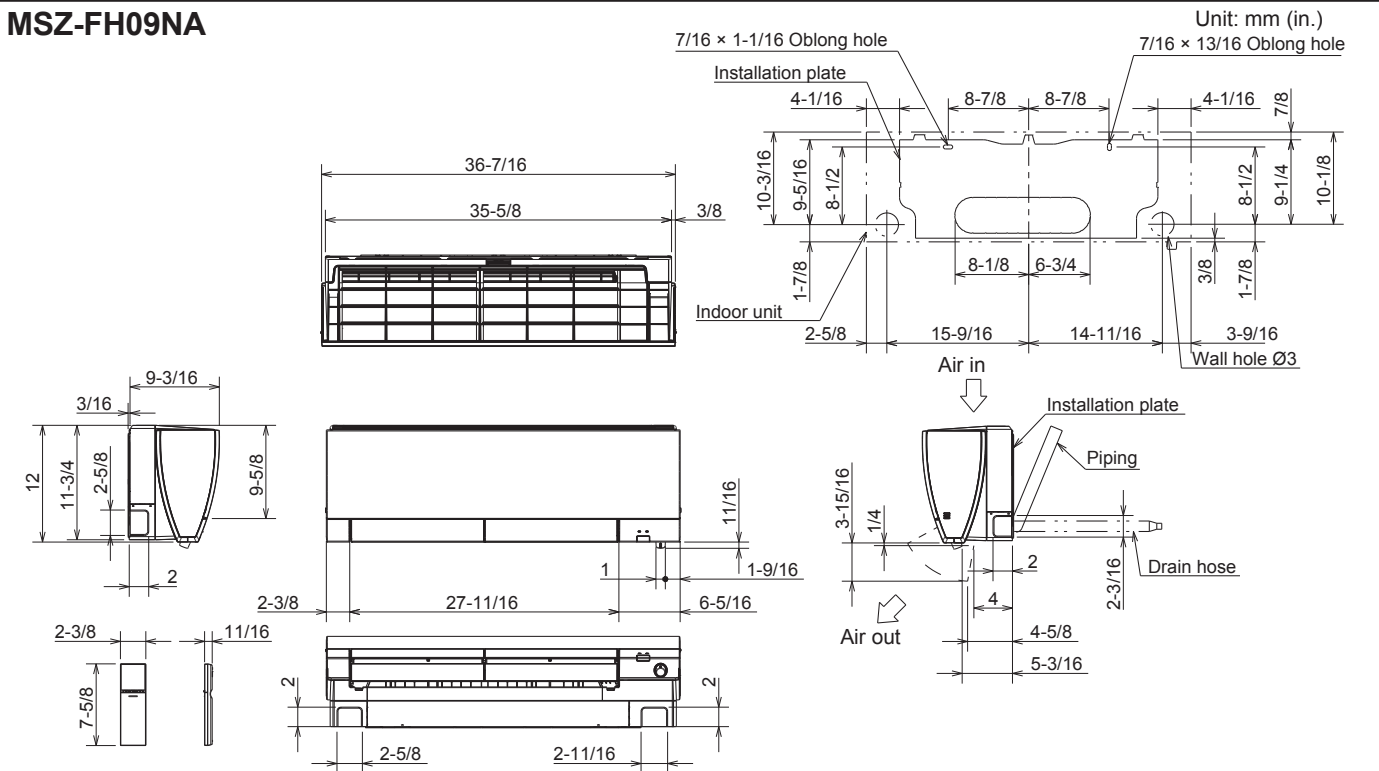
Connection Method

Indoor/Outdoor Flared

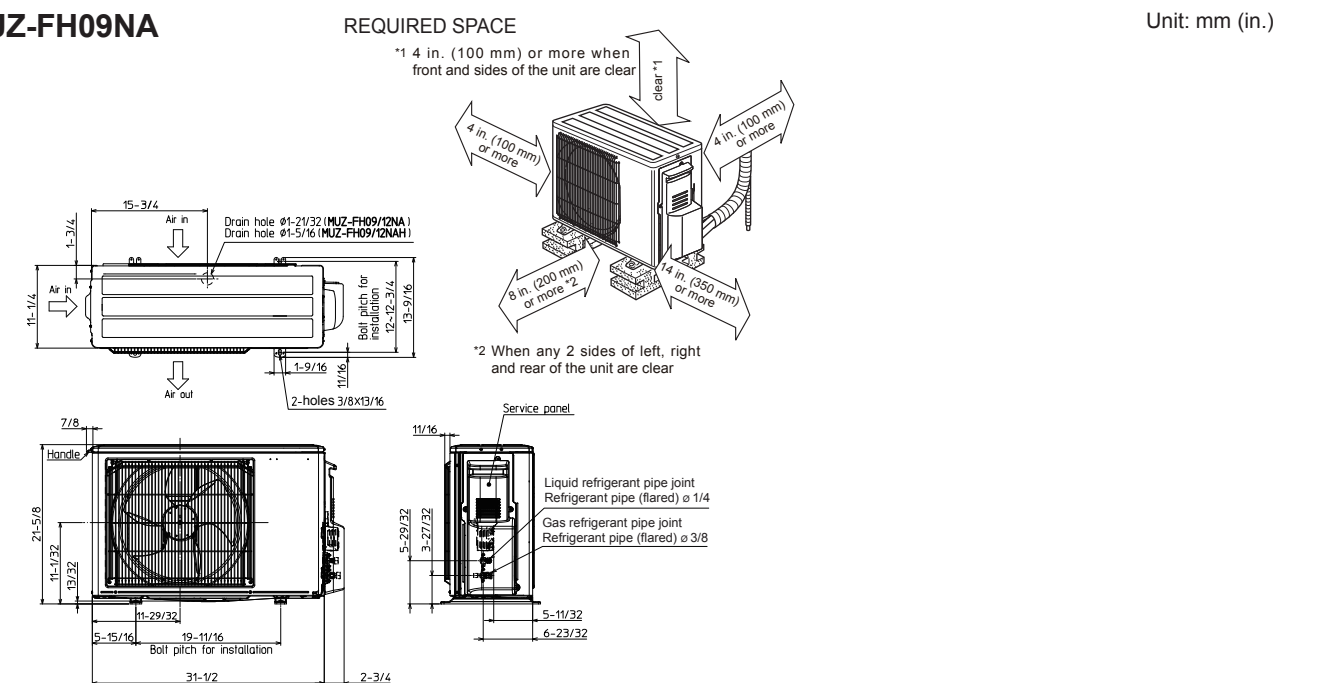
Notes:

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MSZ-FH09NA



MUZ-FH09NA



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Intertek

FORM# MSZ-FH09NA ~ MUZ-FH09NA - 201401
Specifications are subject to change without notice.
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COOLING & HEATING

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Suwanee, GA 30024
Tele: 678-376-2900 • Fax: 800-889-9904
Toll Free: 800-433-4822
www.mehvac.com

Rheem Model XE30S06ST45U1 Internet #205810630 Store SKU #1001300476 Store SO SKU #1001230805

Performance 30 Gal. Short 6 Year 4500/4500-Watt Elements Electric Water Heater with Blanket

★★★★★ (20) [Write a Review](#) [Questions & Answers \(23\)](#)



Product Overview

The Rheem Performance 30 Gal. Electric short water heater provides an ample supply of hot water for households with 1 to 2 people. This unit comes with two 4500-Watt elements and an automatic thermostat which keeps the water at the desired temperature. A 240-Volt electrical connection is required for installation. A premium grade anode rod provides long-lasting tank protection. Factory installed temperature and pressure relief valve and 3/4 in. water connections are included with the water heater for easy installation. This model has a 6 year limited tank and parts warranty plus a 1 year in home labor warranty. A 2.5 in. insulation blanket is included with this model for added efficiency.

- Electric water heater is easy to maintain
- Delivers 42 Gal. of hot water in the first hour
- 6 year limited warranty on tank and parts for your convenience
- 1 year in home labor warranty for peace of mind
- Meets or exceeds NAECA requirements
- 0.95 energy factor signifies an energy efficient water heater
- Dual 4500-Watt heating elements
- Automatic thermostat keeps water at your desired temperature
- Requires a 240-Volt connection for installation
- Meets 2015 NAECA Standards

Specifications

Dimensions

Product Depth (in.)	19.75	Tank Valve Size (in.)	.75
Product Height (in.)	30	Water Connection Size (in.)	.75
Product Width (in.)	19.75		

Details

Application Type	Residential	Product Weight (lb.)	95 lb
Energy Factor	0.95	Returnable	90-Day
Finish Family	Gray	Tank Capacity (gallons)	30
First Hour of Delivery (gallons/hr)	30	Water Connection Location	Top

Fuel Type	Electric	Water Heater Features	Overheat Protection, Temperature Pressure Relief Valve
Indoor/Outdoor	Indoor	Water Heater Profile	Short
Maximum Temperature (F)	150	Wattage (watts)	4500
Minimum Temperature (F)	90		

Warranty / Certifications

Certifications and Listings	1-UL Listed	Labor Warranty	1 Year
ENERGY STAR Certified	No	Part Warranty	6 Year