

PLAN: Ragnar w/ Covered

Porch

ELEVATIONS

PROJECT ADDRESS: Magnolia Hills Lot 6

Precision Custom Hom Raeford, NC n@PrecisionCustomHom

DATE:

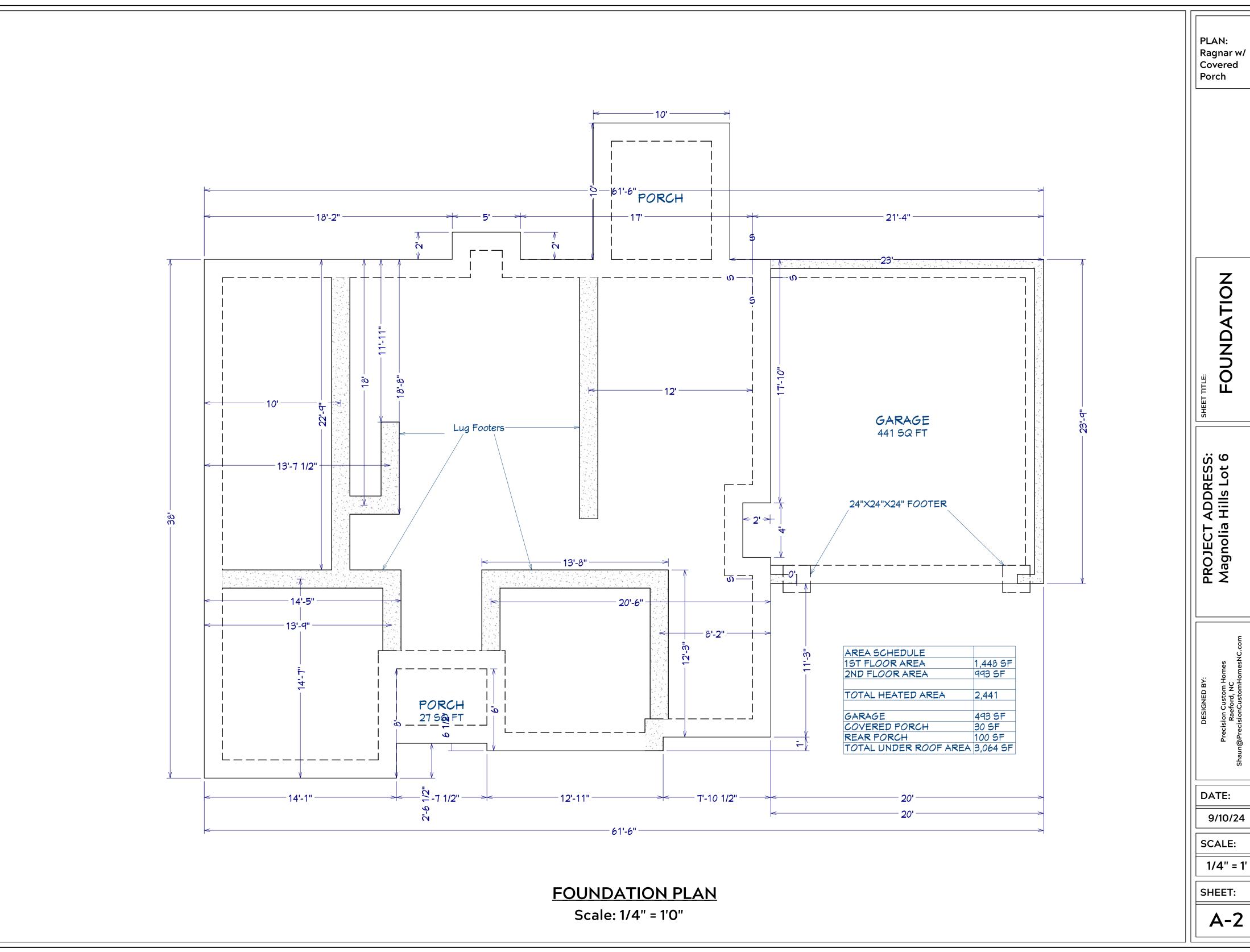
9/10/24

SCALE:

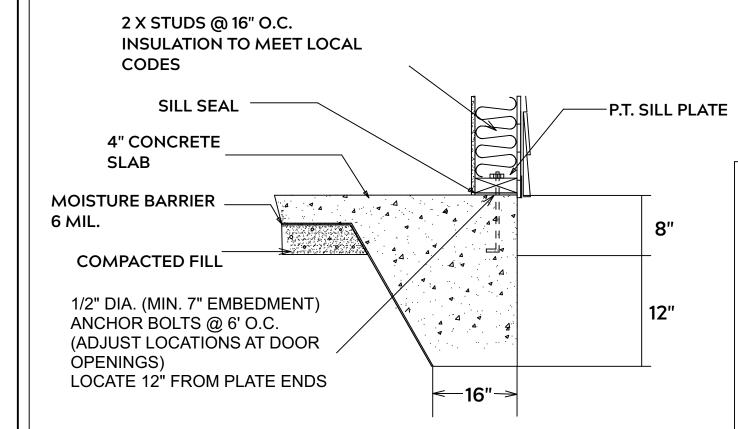
1/4" = 1'

SHEET:

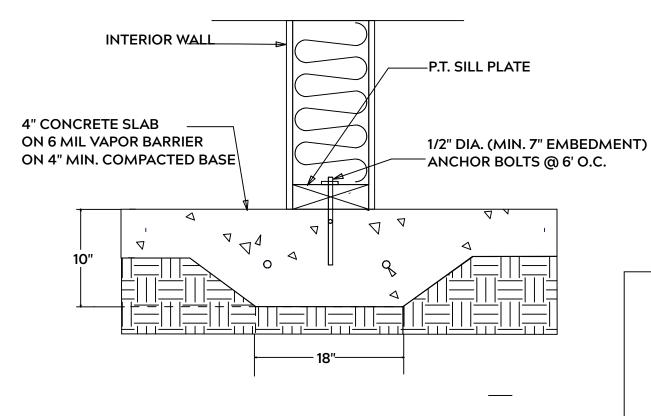
A-1



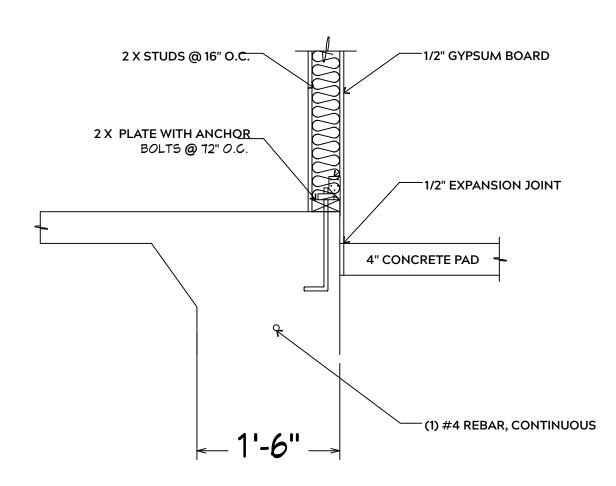
Ragnar w/



MONOLITHIC SLAB



LUG FOOTING



FOUNDATION NOTES:

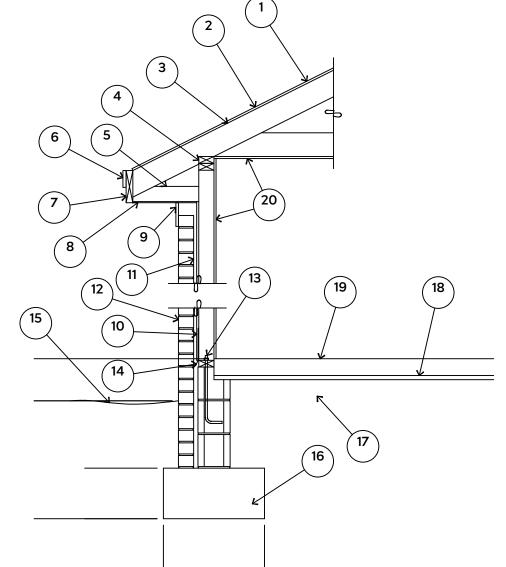
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL THE 28 DAY COMPRESSIVE STRENGTH OF ALL **FOOTINGS IS 3000 PSI**

PROVIDE WATER PROOFING AND PERIMTER DRAINS AS REQUIRED

FOOTING WIDTHS ARE BASED ON A LOAD BEARING SOIL CAPACITY OF 2000 PSI

PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND IN CRAWL SPACE AND **GROUND UNDER POURED CONCRETE**

ALL ANCHOR BOLTS TO BE 1/2" X 12" LONG. ANCHOR BOLTS SHALL BE SPACED AT A MAXIMUM OF 6' ON CENTER AND NO MORE THEN 1' FROM EACH CORNER



15# FELT UNDERLAYMENT UNDER COMPOSITION SHINGLES.

2. ROOF DECKING.

3. 2 X RAFTERS / ENGINEERED TRUSSES

DOUBLE TOP PLATE. 5. 2 X 4 RETURN.

6. 3/4" FASCIA OR PVC TRIM COIL

7. 2 X FASCIA

1/4" PLYWOOD OR VINYL SOFFIT

9. 1X FREIZE BOARD (TO BE USED WITH **BRICK VENEERS)**

10. INSULATION BOARD OR HOUSE WRAP

11. AIR SPACE. 12 BRICK WITH BRICK TIES PER

MANUFACTURER'S SPECIFICATIONS.

13. 1/2" X 12" ANCHOR BOLTS, 6'-0" O.C., 12" FROM CORNERS.

4. FLASHING WITH WEEP HOLES @ 48" O.C.

15. FINISHED GRADE.

16. FOOTING

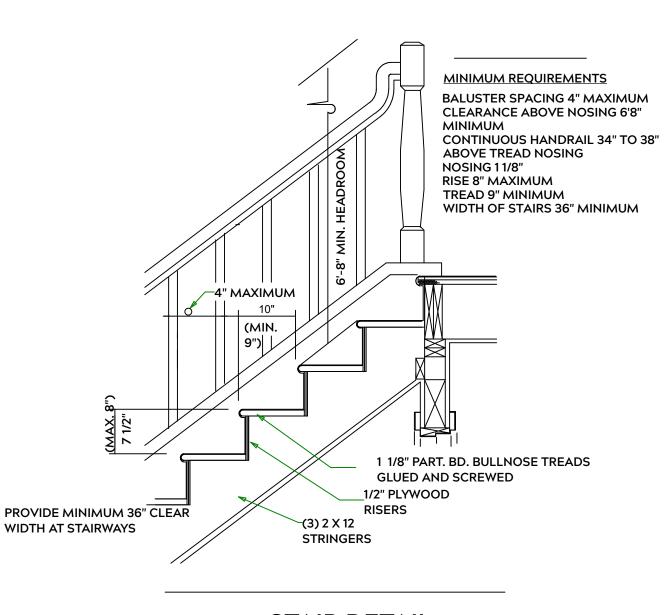
17. COMPACTED EARTH FILL

18. 6 MIL. VAPOR BARRIER

19. 4" CONCRETE SLAB, 3,000 P.S.I. WITH 6" X 6" 10 GA. X 10 GA. WELDED WIRE FABRIC.

20. 1/2" GYPSUM BOARD.

EXTERIOR WALL SECTION



STAIR DETAIL

GENERAL FRAMING NOTES:

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALLE BE PRESSURE TREATED

FRAMING LUMBER SHALL BE SYP #2 GRADE AND / OR SPRUCE PINE FIR #1 AND / OR KILN DRIED

WHERE PRE-ENGINEERED JOISTS AND TRUSSES ARE USED, MANUFACTURER SHALL PROVIDE DRAWINGS / SCHEMATICS, WHICH SHALL BEAR OF A N.C. **ENGINEER**

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN MEMBER TO ITS ORIGINAL CAPACITY

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" O.C. AND USE 3 X 16d NAILS 2" IN AT EACH END.

NAIL FLOOR JOISTS TO SILL PLATE WITH WITH 8d TOE NAILS

ALL EXPOSED FRAMING ON PORCHES OR DECKS SHALL BE PRESSURE **TREATED**

PROVIDE WATERPROOFING AND DRAINS AS REQUIRED

ALL FRAMING TO BE 16" O.C. WALL FRAMING DIMENSIONS ARE BASED ON 2X4 OR 2X6 EXTERIOR WALLS AND 2X4 INTERIOR WALLS. DOULBE / TRIPLE JACK STUDS AS NECESSARY UNDER HEADERS AS REQUIRED

LVL'S TO BE SIZED BY OTHERS (TRUSS MANUFACTURER)

INTERIOR WALL @ GARAGE STEP DOWN

PLAN: Ragnar w/ Covered Porch

> SHEETS AIL

ET

PROJECT ADDRESS: Magnolia Hills Lot 6

Precision Custom Hor Raeford, NC @PrecisionCustomHor

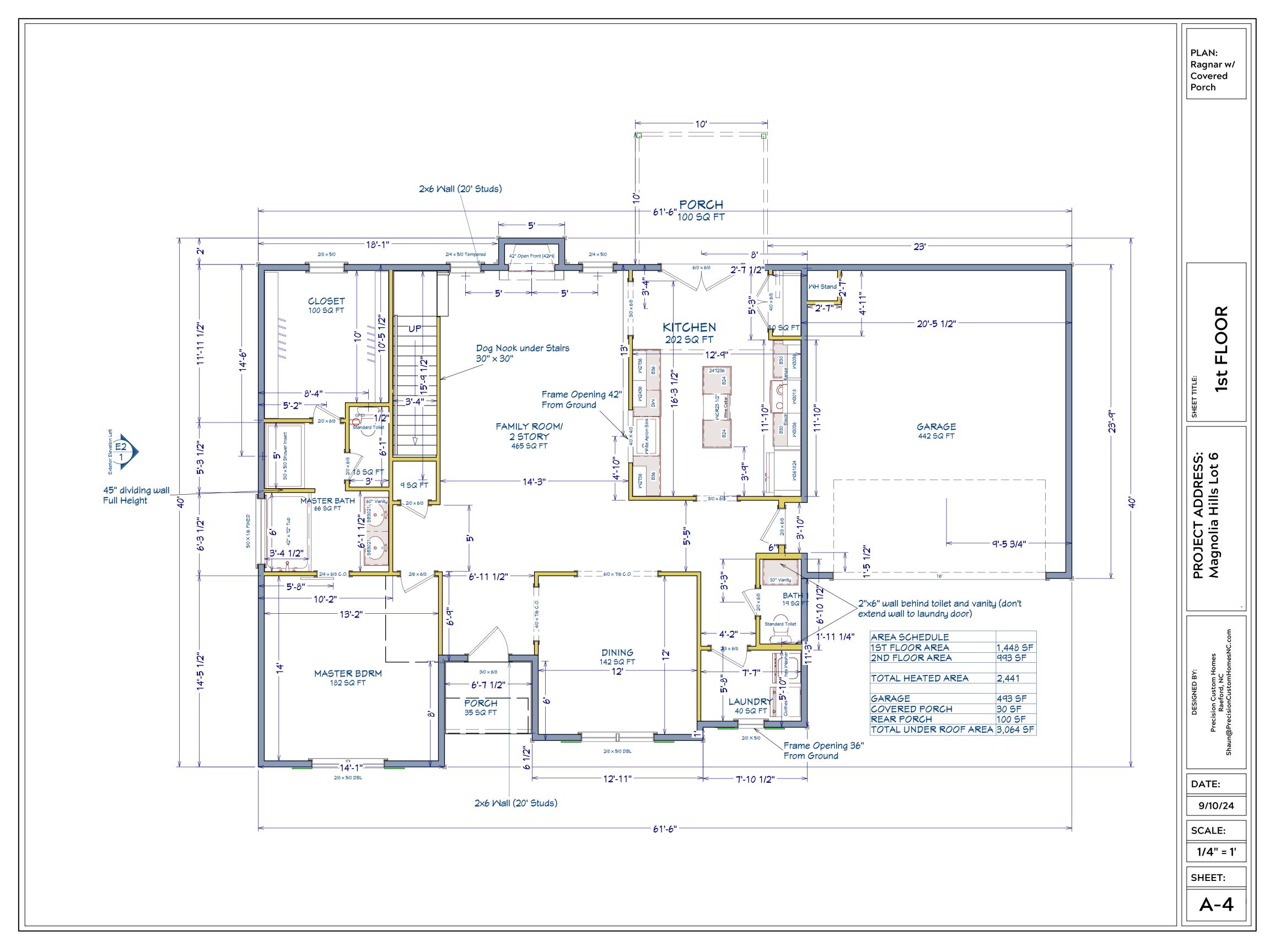
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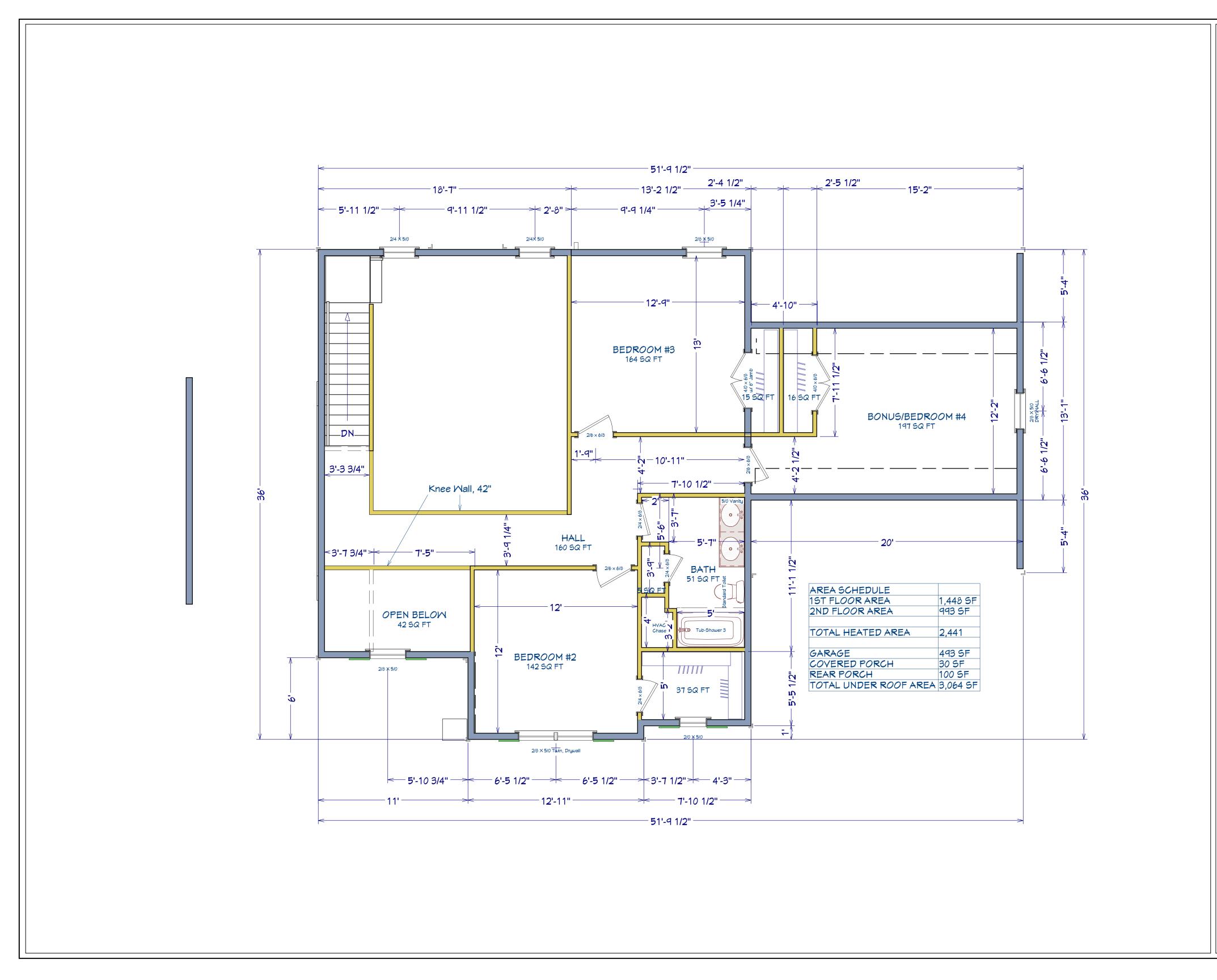
9/10/24

SCALE: 1/4" = 1'

SHEET:

A-3





PLAN: Ragnar w/ Covered Porch

2nd FLOOR

SHEET TITLE:

PROJECT ADDRESS: Magnolia Hills Lot 6

> Precision Custom Homes Raeford, NC aun@PrecisionCustomHomesNC.co

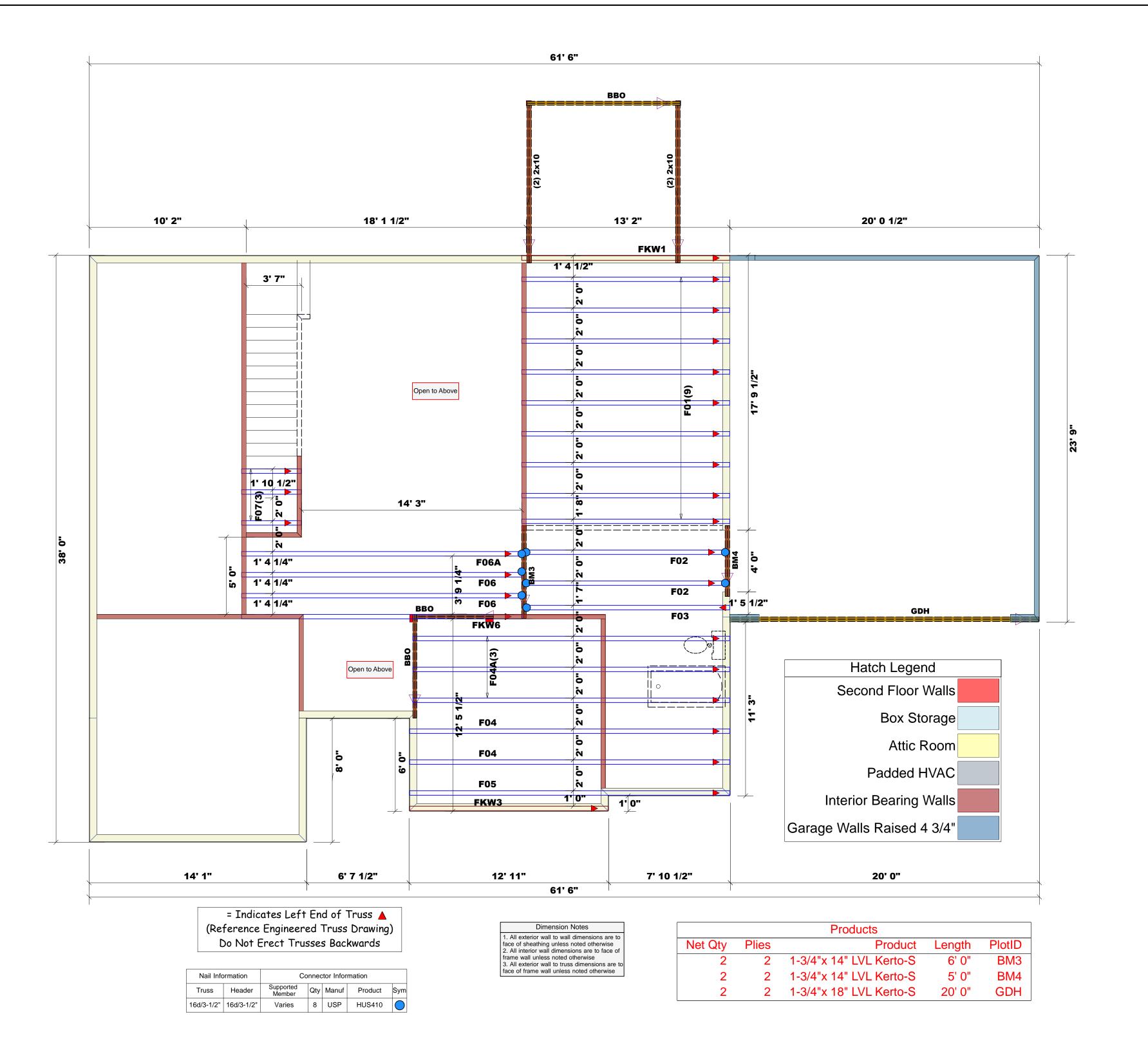
DATE:

9/10/24

SCALE: 1/4" = 1'

SHEET:

A-5





Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Hampton Horrocks

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

| NUA | MBER C | | STUDS R HEADER/ | | | A END OF | = |
|-------------------------|-----------------------------------|-----|-------------------------|-----------------------------------|-----|-------------------------|-----------------|
| END REACTION (UP TO) | REQ'D STUDS FOR (2) PLY HEADER | | END REACTION (UP TO) | REQ'D STUDS FOR (3) PLY HEADER | | END REACTION (UP TO) | REQ'D STUDS FOR |
| 1700 | 1 | | 2550 | 1 | | 3400 | 1 |
| 3400 | 2 | | 5100 | 2 | | 6800 | 2 |
| 5100 | 3 | | 7650 | 3 | | 10200 | 3 |
| 6800 | 4 | | 10200 | 4 | | 13600 | 4 |
| 8500 | 5 | | 12750 | 5 | | 17000 | 5 |
| 10200 | 6 | | 15300 | 6 | | | |
| 11900 | 7 | | | | | | |
| 13600 | 8 | | | | | | |
| 15300 | 9 | | | | | | |
| | | | | | | | |
| | 1 | - 1 | | | - 1 | | |

| Precision Custom Homes | COUNTY | Cameron / Harnett |
|-------------------------|----------------------------|---------------------------|
| Lot 6 Magnolia Hills | ADDRESS | Lot 6 Magnolia Hills |
| Ragnar w/ Covered Porch | WODEL | Floor |
| 09/10/24 | DATE REV . 09/17/24 | 09/17/24 |
| Quote # | DRAWN BY | DRAWN BY Hampton Horrocks |
| .10724-4088 | SALESMAN | SALESMAN Neil Baggett |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

PLAN

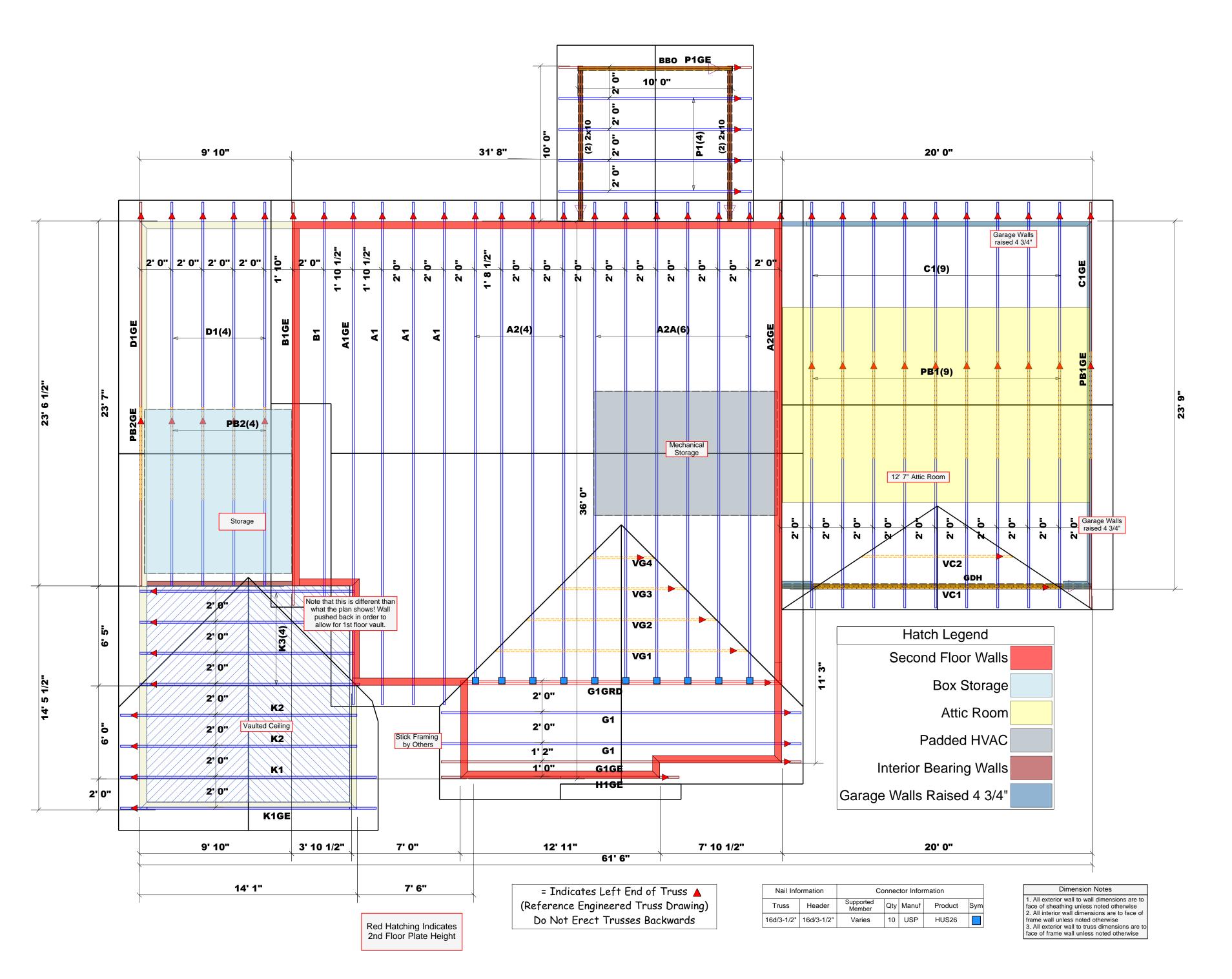
JOB NAME

BUILDER

SEAL DATE

QUOTE # JOB #

Truss Placement Plan SCALE: 1/4" = 1'





Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the

Hampton Horrocks

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

| NUM | MBER C | STUDS R | | A END OF | = |
|-------------------------|-----------------------------------|-------------------------|-----------------------------------|-------------------------|-----------------|
| END REACTION (UP TO) | REQ'D STUDS FOR (2) PLY HEADER | END REACTION (UP TO) | REQ'D STUDS FOR (3) PLY HEADER | END REACTION (UP TO) | REQ'D STUDS FOR |
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |

| Precision Custom Homes | COUNTY | Cameron / Harnett | 11900 13600 15300 |
|-------------------------|-----------|---------------------------|-------------------------|
| Lot 6 Magnolia Hills | ADDRESS | Lot 6 Magnolia Hills | 6 7 8 9 |
| Ragnar w/ Covered Porch | MODEL | Roof | 15300 |
| 09/10/24 | DATE REV. | 09/17/24 | J 6 |
| Quote # | DRAWN BY | DRAWN BY Hampton Horrocks | |
| J0724-4087 | SALESMAN | SALESMAN Neil Baggett | |

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SEAL DATE

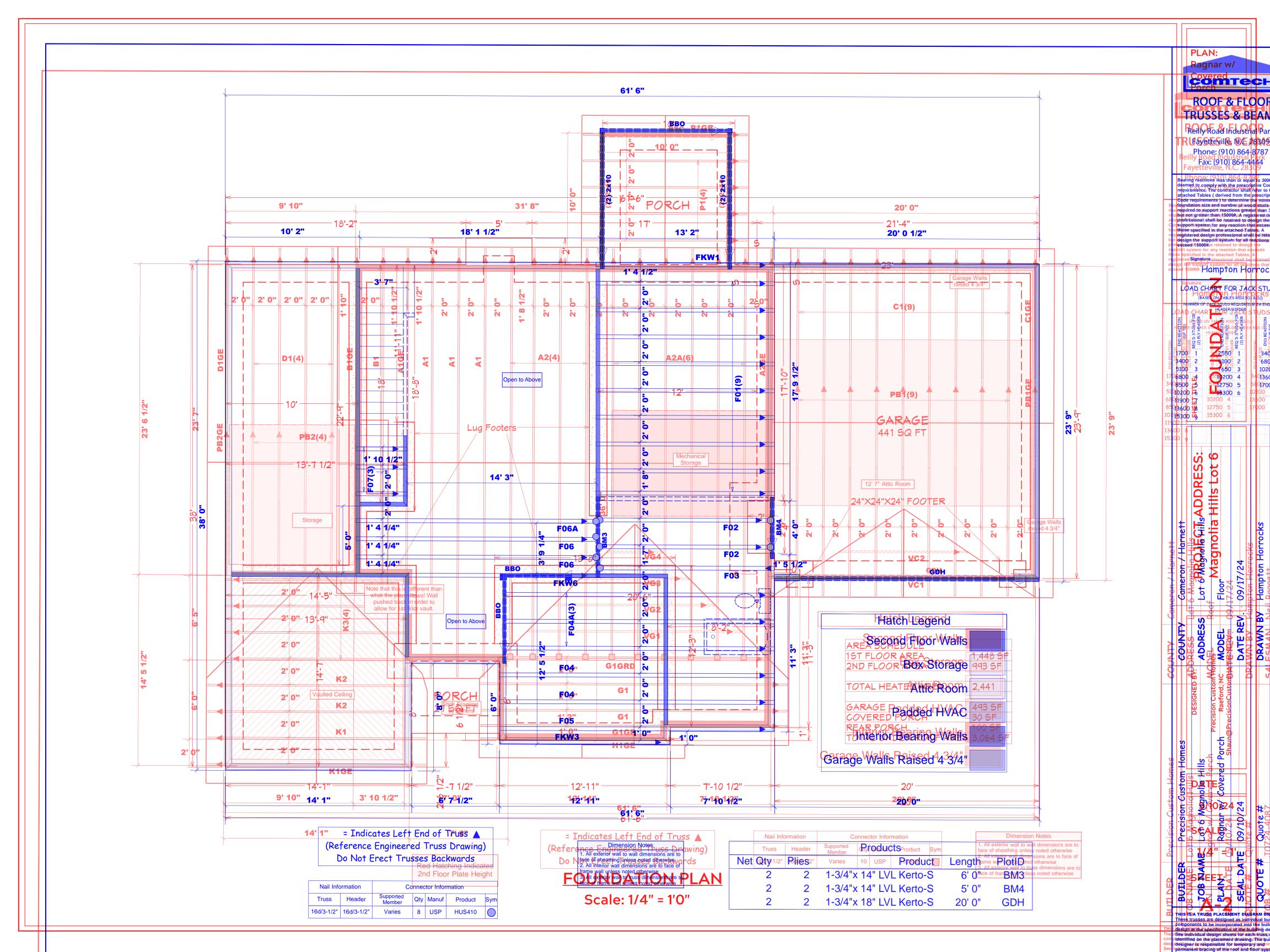
QUOTE# JOB#

PLAN

JOB NAME

BUILDER

Truss Placement Plan SCALE: 1/4" = 1'



North Carolina 2018 - R402.1.5 Total UA

Property

Cameron, NC 28326 Model: Ragnar

Community: Liberty Meadows

Organization

Southern Energy Manager Justin Smith

Inspection Status
Results are projected



Builder

SMG Precision Properties

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab -Liberty Meadows lot 12

This report is based on a proposed design and does not confirm field enforcement of design elements.

Building UA

| Elements | NC Reference | As Designed |
|---|--------------|-------------|
| Ceilings | 51.5 | 48.9 |
| Above-Grade Walls | 209.1 | 155.3 |
| Windows, Doors and Skylights | 100.0 | 89.4 |
| Slab Floor: | 84.7 | 110.5 |
| Framed Floors | 12.6 | 13.7 |
| Foundation Walls | 0.0 | 0.0 |
| Rim Joists | 6.8 | 5.5 |
| Overall UA (Design must be equal or lower): | 464.7 | 423.3 |

Requirements

| 402.1.5 | Total UA alternative compliance passes by 8.9%. | |
|---------------------|--|---|
| 402.3.2 | Average SHGC: 0.28 Max SHGC: 0.30 | |
| R402.4.2.2 | Air Leakage Testing | Air sealing is 4.80 ACH at 50 Pa. It must not exceed 5.00 ACH at 50 Pa. |
| R402.5 | Area-weighted average fenestration SHGC | |
| R402.5 | Area-weighted average fenestration U-Factor | |
| R404.1 | Lighting Equipment Efficiency | |
| Mandatory Checklist | Mandatory code requirements that are not checked by Ekotrope must be met. | |
| R403.3.1 | Duct Insulation | |
| 403.3.3 | Duct Testing | |

Design exceeds requirements for North Carolina 2018 Prescriptive compliance by 8.9%.

| Name: | Justin Smith | Signature: | Justin Smith |
|---------------|----------------------------|-------------------|--------------------|
| Organization: | Southern Energy Management | Digitally signed: | 8/9/22 at 11:16 AM |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Justin Smith Builder

SMG Precision Properties

Organization

Inspection Status Southern Energy Management Results are projected



| General Building Information | |
|----------------------------------|------------------------|
| Number Of Bedrooms | 4 |
| Number Of Floors | 2 |
| Conditioned Floor Area [sq. ft.] | 2,441 |
| Has Electric Vehicle Ready Space | No |
| Unconditioned, attached garage? | Yes |
| Conditioned Volume [cu. ft.] | 24,363 |
| Total Units in Building | 1 |
| Residence Type | Single family detached |
| Number of Floors in Building | · |
| Floor Number | - |
| Model | Ragnar |
| Community | Liberty Meadows |
| RESNET/IECC 2006 Climate Zone | 4A |

ЗА

Foundation Wall

IECC 2021 Climate Zone

None Present

Foundation Wall Library List

None Present

| Slab | | | | | | | | |
|------|----------------|-------------|-------------|----------|-------------------------|--------------|------------------|----------------------|
| Nam | e Library Type | e Perimeter | Floor Grade | Carpet R | Exposed Masonry Area | Surface Area | Location | Enclosing |
| slat | Uninsulated | 175 | On Grade | 1 | 0 | 1,448.0 ft² | Exposed Exterior | Conditioned Space |

| Slab Library | List | | | | | | |
|--------------|---------------------------|-------------------------------|------------------------------------|---|---------------------------------|---------------|-------------------|
| Name | Wall Construction Type | Slab Completely Insulated? | Underslab Insulation Width [ft] | | Perimeter Insulation R Value | Thermal Break | Effective R-value |
| Uninsulated | Wood Frame / Other | No | 0 | 0 | 0 | No | 0.00 |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management

Justin Smith

Builder

SMG Precision Properties





| Framed Floor | | | | | |
|--------------|-----------------------|----------|-------------|--------------|--------------------------------|
| Name | Library Type | Carpet R | Floor Grade | Surface Area | Location |
| over garage | R 19, 16"OC G1 Carpet | 0 | Above Grade | 268.0 ft² | Unconditioned, attached garage |

Inspection Status

Results are projected

| Framed Floor Library List | | |
|---------------------------|-------------|-------------------|
| | Name | Effective R-value |
| R 19, 16"O0 | C G1 Carpet | 19.566 |

| | Rim Joist | | | |
|---|-------------------|----------------|--------------|--------------------------------|
| | Name | Library Type | Surface Area | Location |
| ı | 1st floor ambient | R 19 G1, 16"OC | 102.0 ft² | Exposed Exterior |
| ı | 1st floor garage | R 19 G1, 16"OC | 20.0 ft² | Unconditioned, attached garage |

| Rim Joist Library I | List |
|---------------------|--------------------------------|
| Name | e Effective Insulation R-value |
| R 19 G1, 16"OC | 17.30 |

| Wall | | | | |
|-------------------|------------------------------|---------------|--------------|--------------------------------|
| Name | Library Type | Surface Color | Surface Area | Location |
| 1st floor ambient | R 19 Adv. Framing G1 16" O.C | Medium | 1,359.0 ft² | Exposed Exterior |
| 1st floor garage | R 19 Adv. Framing G1 16" O.C | Medium | 243.0 ft² | Unconditioned, attached garage |
| 2nd floor ambient | R 19 Adv. Framing G1 16" O.C | Medium | 816.0 ft² | Exposed Exterio |
| 2nd floor attic | R 19 Adv. Framing G1 16" O.C | Medium | 584.0 ft² | Attio |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties



| Wall Library List | |
|------------------------------|-------------------|
| Name | Effective R-value |
| R 19 Adv. Framing G1 16" O.C | 17.492 |

Inspection Status

Results are projected

| Glazing | | | | | | | | | |
|--------------------|--------------|----------------------|----------------------------------|-------------|-------------------|-----------------------|--------------------------|-------------|--------------|
| Name | Library Type | Wall Assignment | Foundation Wall Assignment | ls Operable | Overhang Depth | Overhang Ft To Top | Overhang Ft To Bottom | Orientation | Surface Area |
| front 2nd unshaded | 33/28 | 2nd floor ambient | | Yes | 0 | 0 | 0 | East | 50.1 ft² |
| front unshaded | 33/28 | 1st floor ambient | | Yes | 0 | 0 | 0 | East | 63.4 ft² |
| left unshaded | 33/28 | 1st floor ambient | | Yes | 0 | 0 | 0 | South | 7.5 ft² |
| rear 2nd unshaded | 33/28 | 2nd floor ambient | | Yes | 0 | 0 | 0 | West | 36.7 ft² |
| rear unshaded | 33/28 | 1st floor ambient | | Yes | 0 | 0 | 0 | West | 76.7 ft² |
| right 2nd unshaded | 33/28 | 2nd floor ambient | | Yes | 0 | 0 | 0 | North | 13.4 ft² |

| Glazing Library List | | | |
|----------------------|------|----------|--|
| Name | Shgc | U-factor | |
| 33/28 | 0.28 | 0.330 | |

| Skylight | | |
|----------|--------------|--|
| | None Present | |
| | | |

| Skylight Library List | |
|-----------------------|--------------|
| | None Present |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

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Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



| Opaque Doo | r | | | | | | | |
|--------------|----------------|-------------------|-------------------------------|-----|----------------------|---------------|--------------|--------------------------------|
| Name | Library Type | Wall Assignment | Foundation Wall Assignment | | Solar Absorptance | Surface Color | Surface Area | Location |
| front entry | Fiberglass R-5 | 1st floor ambient | | 0.9 | 0.75 | Medium | 20.0 ft² | Exposed Exterior |
| garage entry | Fiberglass R-5 | 1st floor garage | | 0.9 | 0.75 | Medium | 18.0 ft² | Unconditioned, attached garage |

| Opaque Door Libr | rary List |
|------------------|-----------------------|
| Nam | ne Effective U-factor |
| Fiberglass R-5 | 5 0.200 |

| Roof Insulati | on | | | | | |
|---------------|--|---------------------------|--------------------------------|------|--------------|----------|
| Name | Library Type | Attic Exterior Area [ft²] | Clay or Concrete Roof Tiles | | Surface Area | Location |
| attic | R 38 Attic BLOWN FG G1 2x10 24"OC NO Radiant Barrier | 2,522.52 | No | Dark | 1,716.0 ft² | Attic |

| Roof Insulation | Library List | |
|---|---------------------|-------------------|
| Name | Has Radiant Barrier | Effective R-value |
| R 38 Attic BLOWN FG G1 2x10 24"OC NO | No | 35.115 |

| Whole House | Infiltration | | |
|-------------------|--------------------|---------------|----|
| Infiltration | Measurement Type | Shelter Class | ss |
| 1949 CFM at 50 Pa | Blower-door tested | 4 | 4 |

Mechanical Ventilation

None Present

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management

Inspection Status

Results are projected

Justin Smith

Builder

None Present

SMG Precision Properties



| Liberty incudows for 12 | | | | | |
|------------------------------------|-------------------------|------------------------------------|-------------------------|----------------------------------|-----------------------|
| Lighting | | | | | |
| % Interior Fluorescent Lighting | % Interior LED Lighting | % Exterior Fluorescent Lighting | % Exterior LED Lighting | % Garage Fluorescent Lighting | % Garage LED Lighting |
| 0 | 90 | 0 | 0 | 0 | 0 |
| Onsite Genera | tion | _ | _ | _ | _ |
| Onsite General | | one Present | | | |
| Onsite Genera | tion Library List | | | | |
| | No | one Present | | | |
| Solar Generati | ion | | | | |
| | No | one Present | | | |
| Dehumidifier | | | | | |
| | No | one Present | | | |
| Dehumidifier L | | Paramet. | | | |
| | No | one Present | | | |
| Whole House I | Fan | | | | |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties



Whole House Fan Library List

None Present

| Conditioning Equipment | | | | | | |
|------------------------|------------------------|---------------|----------------------|----------------------|---------------------------|----------------------|
| Name | Library Type | Serial Number | Heating Percent Load | Cooling Percent Load | Hot Water Percent Load | |
| 1st floor heat pump | z 24k 14 SEER 8.2hspf | | 59% | 59% | 0% | Attic |
| 2nd floor heat pump | z 24k 14 SEER 8.2hspf | | 41% | 41% | 0% | Attic |
| Water Heating | z 50 gal. 0.95 EF Elec | | 0% | 0% | 100% | Unconditioned Garage |

Inspection Status

Results are projected

| Equipment Type: z 24k 14 SEER 8.2hspf | | | |
|---------------------------------------|----------------------|--|--|
| Equipment Type | Air Source Heat Pump | | |
| Fuel Type | Electric | | |
| Distribution Type | Forced Air | | |
| Motor Type | PSC (Single Speed) | | |
| Heating Efficiency | 8.2 HSPF | | |
| Heating Capacity [kBtu/h] | 24 | | |
| Backup Fuel Type | Electric | | |
| Switchover Temperature [°F] | 0 | | |
| Backup Heating Efficiency | 1 COP | | |
| Use default Supplemental Heat | Yes | | |
| Cooling Efficiency | 14 SEER | | |
| Cooling Capacity [kBtu/h] | 24 | | |

| Equipment Type: z 50 gal. 0.95 EF Elec | | | |
|--|---|--|--|
| Residential Water Heater | | | |
| Electric | | | |
| Hydronic Delivery (Radiant) | | | |
| 0.95 Energy Factor | | | |
| 50 | | | |
| 40 | | | |
| 0.98 | | | |
| | Residential Water Heater Electric Hydronic Delivery (Radiant) 0.95 Energy Factor 50 40 | | |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



| Distribution System | |
|------------------------------------|--------------------------------|
| Distribution Type | Forced Air |
| Heating Equipment | 1st floor heat pump |
| Cooling Equipment | 1st floor heat pump |
| Sq. Feet Served | 1,448 |
| # Return Grilles | 2 |
| Supply Duct R Value | 8 |
| Return Duct R Value | 8 |
| Supply Duct Area [ft²] | 390.96 |
| Return Duct Area [ft²] | 144.8 |
| Leakage to Outdoors | 57 CFM @ 25Pa (3.94 / 100 ft²) |
| Total Leakage | 57 CFM25 |
| Total Leakage Duct Test Conditions | Post-Construction |
| Use Default Flow Rate | Yes |
| Duct 1 | |
| Duct Location | Attic (well vented) |
| Percent Supply Area | 70 |
| Percent Return Area | 70 |
| Duct 2 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 30 |
| Percent Return Area | 30 |
| Duct 3 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 4 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 5 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 6 | 0 |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties





| Distribution System | |
|------------------------------------|--------------------------------|
| Distribution Type | Forced Air |
| Heating Equipment | 2nd floor heat pump |
| Cooling Equipment | 2nd floor heat pump |
| Sa. Feet Served | 993 |
| # Return Grilles | 2 |
| Supply Duct R Value | 8 |
| Return Duct R Value | 8 |
| Supply Duct Area [ft²] | 268.11 |
| Return Duct Area [ft²] | 99.3 |
| Leakage to Outdoors | 39 CFM @ 25Pa (3.93 / 100 ft²) |
| Total Leakage | 39 CFM25 |
| Total Leakage Duct Test Conditions | Post-Construction |
| Use Default Flow Rate | Yes |
| Duct 1 | |
| Duct Location | Attic (well vented) |
| Percent Supply Area | 100 |
| Percent Return Area | 100 |
| Duct 2 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 3 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 4 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 5 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |
| Duct 6 | |
| Duct Location | Conditioned Space |
| Percent Supply Area | 0 |
| Percent Return Area | 0 |

HVAC Grading

HVAC Grading Not Conducted

| Ceiling Fan | | |
|-----------------|-----|--|
| Has Ceiling Fan | No | |
| Cfm Per Watt | 100 | |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties





| Water Distribution | |
|--|----------|
| Water Fixture Type | Low-flow |
| Use Default Hot Water Pipe Length | No |
| Hot Water Pipe Length [ft] | 89 |
| At Least R3 Pipe Insulation? | No |
| Hot Water Recirculation System? | No |
| Recirculation System Pipe Loop Length [ft] | 20 |
| Drain Water Heat Recovery? | No |

| Clothes Dryer | |
|------------------------------|----------------|
| Cef | 3.01 |
| Fuel Type | Electric |
| Field Utilization | Timer Controls |
| Is Outside Conditioned Space | No |
| Clothes Dryer Available | Yes |
| Defaults Type | HERS Reference |

| Clothes Washer | | |
|------------------------------|--------------|--|
| Label Energy Rating | 153 kWh/Year | |
| Annual Gas Cost | \$12.00 | |
| Electric Rate | \$0.11/kWh | |
| Gas Rate | \$1.22/Therm | |
| Capacity | 3.31 | |
| Imef | 2.1547 | |
| Defaults Type | Custom | |
| Load Type | Front-load | |
| Loads Per Week | 6 | |
| Is Outside Conditioned Space | No | |
| Clothes Washer Available | Yes | |
| | | |

| Dishwasher | |
|------------------------------|--------------|
| Dishwasher Efficiency | 270 kWh |
| Dishwasher Size | Standard |
| Annual Gas Cost | \$22.23 |
| Electric Rate | \$0.12/kWh |
| Gas Rate | \$1.09/Therm |
| Is Outside Conditioned Space | No |

Property Cameron, NC 28326 Model: Ragnar Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 12 - CZ 3 slab - ecoSelect Liberty Meadows lot 12

Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties





| Appliances and Controls | |
|---|--------------|
| Thermostat Cooling Setpoint | * * * * 75.0 |
| Thermostat Heating Setpoint | * * * * 70.0 |
| Range/Oven Fuel | Electric |
| Convection Oven? | No |
| Induction Range? | No |
| Range/Oven Outside Conditioned Space? | No |
| Refrigerator Consumption | 538 kWh/Year |
| Refrigerator Outside Conditioned Space? | No |

Notes

Initial Inputs _____MS 07/01/22_

- -confirm HVAC specs
- -confirm water heater specs
- -confirm ventilation entry, modeled as air cycler
- -modeled to worst case orientation
- -confirm cfl lighting %