

Meeting: 3/20/2025
Applicant: R. Bentley Marlow, Marlow Builders Inc.
Owner: R. Bentley Marlow, 210 Cansler LLC

Property Information

Location: 210 Cansler Ave. **Parcel ID** 94 K D 002
District: Mechanicsville H
Zoning: RN-2 (Single-Family Residential Neighborhood)
Description: N/A
Vacant lot.

Description of Work

Level III Construction of New Primary Building

New primary structure fronting Cansler Avenue. The one-story duplex measures 22' wide by 65' deep, with the second unit behind the first. The main massing is proposed to be set 10' from the front property line. There is no parking indicated on the site plan.

The duplex features a 12/12 pitch front-gable roof clad with architectural asphalt shingles, and the roofline features 1' eave overhangs and faux rafter tails on the side elevations. The front-gable fields are clad in faux cedar shakes and feature a 16" square decorative vent and an architectural bracket at the apex. The façade features a full-length, 5' deep concrete slab front porch recessed under a 6/12 pitch half-hipped roof and is supported by four 6x6 pressure treated wood posts. The porch does not feature any railings, and the steps will be made of concrete. There is a similar 8' porch on the rear elevation.

The building will be clad in composite wood ("Hardie or similar") lap siding with wooden corner boards and trim, and it will rest on a 2'-6" tall painted concrete block foundation. The façade features three adjoining 1/1 single-hung windows followed by a paneled door on the right. The left elevation features five horizontal sliding windows, one 1/1 single hung window, and the primary entrance to the rear unit, which is recessed 3' from the main massing with a 4' wide concrete stoop. The right elevation features six horizontal sliding windows, one 1/1 single hung window, and a 21'-2" wide massing that projects 1' from the body of the house. The rear elevation features two paneled doors, which are secondary entrances for the rear unit and are recessed under the porch. All windows and doors feature 1x4 wooden trim, and all windows feature projecting sills. No window material is specified.

Applicable Design Guidelines

Mechanicsville Design Guidelines, adopted by the Knoxville City Council on September 20, 2011.

A. Rules for Roofs

1. The shape of replacement roofs or roofs on new construction shall imitate the shapes of roofs on neighboring existing houses or other houses of the same architectural style. Roof pitch must duplicate the 12/12 pitch most often found in the neighborhood, the roof pitch typical of the style being referenced by a new building, or the pitch

of neighboring buildings. Roof shapes must be complex, using a combination of hips with gables, dormers, or where appropriate to the style, turrets, or other features that emphasize the importance of Victorian-era or Craftsman styling.

2. The eaves on additions or new buildings must have an overhang that mimics existing buildings near the property. A minimum eave overhang of at least eight inches must be retained or used on new buildings or additions to existing buildings.

3. Repair or replace roof details (chimneys, roof cresting, finials, attic vent windows, molding, bargeboards, and other unique roof features). Use some of these details in designing new buildings.

C. Rules for Porches

2. Design elements to be incorporated in any new porch design must include tongue and groove wood floors, beadboard ceilings, wood posts and/or columns, and sawn and turned wood trim when appropriate. If balustrades are required, they must be designed with spindles set into the top and bottom rails.

3. In new construction, the proportion of the porches to the front facades must be consistent with the historic porches in the neighborhood.

D. Rules for Entrances

4. A new entrance or porch must be compatible in size, scale, or material.

6. Secondary entrances must be compatible with the original in size, scale, and materials, but clearly secondary in importance.

E. Rules for Wood Wall Coverings

1. Synthetic siding is inappropriate and is not allowed either as replacement siding on existing buildings or new siding in new construction.

4. New construction must incorporate corner and trim boards and appropriate door and window trim to be compatible with the adjacent historic buildings.

12. Concrete siding (also called Hardi-board) is allowed on outbuildings and garages for new construction only. The material can be used like board and batten if placed vertically. Batten strips of wood must be used, however, to preserve the look of historic materials. If used like normal siding, it must have a reveal of no more than 4.25 inches.

F. Rules for Masonry Wall Coverings

8. Split-faced block shall not be used in new construction or as a replacement for deteriorated masonry units. One exception is split-faced block which can be used as a retaining wall.

10. Stucco-surfaced masonry can be appropriate for foundations in new construction. Brick and stone can also be appropriate.

Rules for New Building Construction

O. Setbacks and Placement on the Lot

1. Maintain the historic façade lines of streetscapes by locating the front walls of new buildings in the same plane as those of adjacent buildings. If existing setbacks vary, a new building's setback shall respect those of adjacent buildings.

2. Do not violate the existing setback pattern by placing new buildings in front of or behind historic buildings on the street.

3. Do not place new buildings at odd angles to the street.

4. Side yard setbacks for new buildings shall be consistent with those of existing historic buildings, so gaps are not left in the streetscape.

P. Scale and Massing

1. Relate the size and proportions of new structures to the scale of adjacent buildings.

2. Break up uninteresting boxlike forms into smaller varied masses like those found on existing buildings by the use of bays, extended front porches, and roof shapes.

3. New buildings must reinforce the scale of the neighborhood by their height, width, and massing.
4. New buildings must be designed with a mix of wall areas with door and window elements in the façade like those found on existing buildings.
5. Roof shapes must relate to the existing buildings, as must roof coverings.

Q. Height of Foundation and Stories

1. Avoid new construction that varies in height, so that new buildings are equal to the average height of existing buildings.
2. The foundation height of new buildings shall duplicate that of adjacent buildings, or be an average of adjacent building foundation heights.
3. For new buildings with more than one story, beltcourses or other suggestions of divisions between stories that suggest the beginnings of additional stories shall be used.
4. The eave lines of new buildings shall conform to those of adjacent properties.

R. Materials

1. The materials used for new building exteriors shall be consistent with materials already found on buildings on the street.
2. Artificial siding and split face block are not acceptable materials for use on new buildings.

S. Features

1. Design new buildings with a strong sense of a front entry.
2. Use front porches in new designs, and make the size of those porches useable for sitting. New porches shall be at least eight feet deep, shall contain design features such as columns and balustrades that introduce architectural diversity, and shall extend across more than half of the front façade.

Comments

N/A

Staff Findings

1. The applicant intends to use Section 4.6 of the zoning code, the Middle Housing standards, which are "intended to promote the development of neighborhood-scale housing forms which are compatible with existing housing in the surrounding area," and "may allow more flexible development of land than is possible under the base district zoning regulations," subject to additional dimensional, design, and parking standards. Middle Housing review occurs separately through Planning staff; the HZC review focuses on how the project meets the design guidelines. However, some elements of Middle Housing review may trigger site plan and building elevation revisions, which would require additional review by the HZC. Variances from Article 4.6 are to be heard by the BZA at the 3/18/2025 meeting.
2. The lot to receive new construction is a 30' wide, 140' deep vacant lot which previously featured a single-story, modest Folk Victorian-style, shotgun house (demolished by 2015) with a width, depth, form, and roofline comparable to the proposed new duplex. New construction in the overlay in the last twenty years has been more elaborate in style and detail; however, the proposed street to receive new construction is relatively modest in housing stock. The proposed single-story shotgun form and modest style is appropriate for the context.
3. Guidelines encourage maintaining the historic façade line of the streetscape and aligning new buildings within the existing setback pattern of the street, which is echoed by the Middle Housing standards (requiring a front setback within five feet, plus or minus, of the blockface average). The average front setback of the blockface is 17.4'. The house is proposed to be 10' from the front property line, with a 5' deep front porch located 5' from the front property line. The building should be recessed towards the rear property line, which would also help accommodate a deeper front porch. The side setbacks are consistent with the block.

4. Overall, the scale and proportions of the new duplex are similar to other single-story shotgun houses and duplexes on the block and in the broader neighborhood. The building is compatible with the neighborhood's scale, height, width, and massing. The proposed foundation height is comparable to other house's foundation heights on the block.
5. Guidelines recommend "break[ing] up uninteresting boxlike forms into smaller varied massings ... by the use of bays, extended front porches, and roof shapes." The proposed duplex uses front and rear porches and a projecting side-elevation massing to break up the long massing.
6. Most houses on the block feature a full-width front porch; the proposed porch is similar in design to multiple houses on the block. The guidelines note that "new porches shall be at least eight feet deep," and "in proportion to historic porches in the neighborhood." The front porch should be extended to measure 8' deep.
7. The proposed 12/12-pitch, front-gable roof clad in architectural shingles meets the design guidelines for pitch and materials.
8. Guidelines discourage split-face block. The proposed painted CMU foundation should be clad in stucco, parge-coated, or clad in brick veneer to better align with historic materials in the neighborhood.
9. The guidelines note that "synthetic siding is inappropriate and not allowed [...] as new siding in new construction," limiting "concrete siding (also called Hardi-board) allowed on outbuildings and garages for new construction only."

Other historic zoning overlays (including Fourth and Gill, Old North Knoxville, and Edgewood-Park City) have approved fiber cement lap siding (typically with a smooth finish, 4-5" in exposure) on new construction through the design review process, and with the general consent of the neighborhood.

Fiber cement lap siding has not yet been approved on additions or on new construction in Mechanicsville. In the opinion of staff, the fiber cement lap siding does not meet the current Mechanicsville design guidelines, though can be appropriate for new construction, based on the preference of the Commission and the neighborhood.

10. Guidelines recommend that new buildings use materials consistent with the street and the surrounding neighborhood. Materials are not specified for the proposed windows. Slider windows are not a historic window form; the windows should be revised to be double-hung windows.

Vinyl windows are not appropriate in a historic district; alternative materials could include fiberglass or aluminum-clad wood, based on the preference of the Commission and the neighborhood. The applicant should clarify window materials for the Commission's approval.

Guidelines recommend a "strong sense of entry," which is achieved via a half-light door accessed via a full-length front porch. The proposed door selection should be compatible with the rest of the house; basic steel or synthetic doors should not be used.

Staff Recommendation

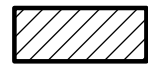
Staff recommends approval of Certificate 3-B-25-HZ, subject to the following conditions:

- 1) application to receive variances from BZA at the March meeting and meeting relevant standards of City Zoning code, including Article 4.6 for Middle Housing standards;
- 2) front setback to be recessed towards rear property line to align with blockface, with final approval by staff;
- 3) CMU foundation to be clad in stucco, parge-coated or clad in brick veneer;

- 4) front porch to be extended to 8' deep, and feature wood tongue-and groove flooring and a wood beadboard ceiling;
- 5) slider windows to be revised to double-hung windows, with final specifications submitted to staff for approval;
- 6) front door specifications to be submitted to staff for approval;
- 7) Commission and neighborhood to discuss and approve final exterior siding material.




3-B-25-HZ
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

 **210 Canler Ave. 37921**
Mechanicsville H


Original Print Date: 3/6/2025
Knoxville/Knox County Planning -- Historic Zoning Commission

Petitioner: R. Bentley Marlow, Marlow Builders Inc.

N



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Feet



DESIGN REVIEW REQUEST

- ☐ DOWNTOWN DESIGN (DK)
- ☒ HISTORIC ZONING (H)
- ☐ INFILL HOUSING (IH)

R. Bentley Marlow

Applicant		
4 February 2025	20 March 2025	3-B-25-HZ
Date Filed	Meeting Date (if applicable)	File Number(s)

CORRESPONDENCE

All correspondence related to this application should be directed to the approved contact listed below.



- ☒ Owner
- ☒ Contractor
- ☐ Engineer
- ☐ Architect/Landscape Architect

R. Bentley Marlow		Marlow Builders, Inc.	
Name		Company	
322 Douglas Avenue		Knoxville	Tennessee 37921-4813
Address		City	State Zip
865-607-4357		rbentleymarlow@gmail.com	
Phone		Email	

CURRENT PROPERTY INFO

210 Cansler, LLC	322 Douglas Avenue	865-607-4357
Owner Name (if different from applicant)	Owner Address	Owner Phone
210 Cansler Avenue	094KD002	
Property Address	Parcel ID	
Mechanicsville	TDR/RN2	
Neighborhood	Zoning	

AUTHORIZATION

	Lindsay Lanois	2.28.25
Staff Signature	Please Print	Date
	R. Bentley Marlow	4 February 2025
Applicant Signature	Please Print	Date

REQUEST

DOWNTOWN DESIGN

Level 1:

- ☐ Signs ☐ Alteration of an existing building/structure

Level 2:

- ☐ Addition to an existing building/structure

Level 3:

- ☐ Construction of new building/structure ☐ Site design, parking, plazas, landscape

See required Downtown Design attachment for more details.

☐ Brief description of work: _____

HISTORIC ZONING

Level 1:

- ☐ Signs ☐ Routine repair of siding, windows, roof, or other features, in-kind; Installation of gutters, storm windows/doors

Level 2:

- ☐ Major repair, removal, or replacement of architectural elements or materials ☐ Additions and accessory structures

Level 3:

- ☐ Construction of a new primary building

Level 4:

- ☐ Relocation of a contributing structure ☐ Demolition of a contributing structure

See required Historic Zoning attachment for more details.

☐ Brief description of work: _____

INFILL HOUSING

Level 1:

- ☐ Driveways, parking pads, access point, garages or similar facilities ☐ Subdivisions

Level 2:

- ☐ Additions visible from the primary street ☐ Changes to porches visible from the primary street

Level 3:

- ☒ New primary structure
☒ Site built ☐ Modular ☐ Multi-Sectional

See required Infill Housing attachment for more details.

☐ Brief description of work: New primary structure

STAFF USE ONLY

ATTACHMENTS

- ☐ Downtown Design Checklist
☐ Historic Zoning Design Checklist
☐ Infill Housing Design Checklist

ADDITIONAL REQUIREMENTS

- ☐ Property Owners / Option Holders

Level 1: \$50 • Level 2: \$100 • Level 3: \$250 • Level 4: \$500

FEE 1:

250.00

FEE 2:

FEE 3:

TOTAL:

250.00

Pd 02/28/2025, SG

Y:\WWW\Project\Current Projects\2000\Calgary\Spec\various\Current Drawings\2000 Plumb.rvt

oysk³ architects
1545 Western Avenue, Suite 100
Knoxville TN 37921
(865) 523-8200
office@oysk3architects.com



CANSLER AVE DUPLEX
NEW RESIDENTIAL CONSTRUCTION
210 Cansler Ave, Knoxville, Tennessee

ISSUE	DATE	REVISION
<p>DRAWN BY: MB</p>		

G000

PROJECT : 25003

G. GENERAL NOTES

1. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THE SCOPE OF WORK, ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK MATERIALS REQUIRED. ANY DISCREPANCY AND/OR UNCERTAINTY AS TO THE QUALITY OF MATERIALS OR THE SCOPE OF WORK SHALL BE VERIFIED WITH THE OWNER OR ARCHITECT.
2. THE CONTRACTOR AND SUB CONTRACTOR SHALL VERIFY ALL SIZES AND CONDITIONS OF STARTING WORK, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
3. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
4. THESE DRAWINGS DO NOT CONTAIN COMPLETE SPECIFICATIONS, DETAILS OR INFORMATION REQUIRED FOR THE INTERIOR FINISHES OF THE PROJECT. ADDITIONAL INFORMATION SHALL BE OBTAINED FROM THE OWNER OR INTERIOR DESIGNER/DECORATOR.
5. ALL SITE WORK & LANDSCAPING IS TO BE ESTABLISHED & DESIGNED BY OTHERS.
6. UNLESS SHOWN ON THESE DRAWINGS, ALL MECHANICAL WORK, SUCH AS BUT NOT LIMITED TO: ELECTRICAL, PLUMBING, HEATING, & AIR CONDITIONING, ETC., ARE TO BE ESTABLISHED BY OTHERS.
7. THE ARCHITECT IS NOT RESPONSIBLE FOR MODIFICATIONS TO THESE DRAWN THAT ARE NOT REVIEWED & APPROVED BY THE ARCHITECT.
8. THE OWNER OR CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS, TAP FEES, AND CERTIFICATES OF COUPANCY.
9. ALL DESIGNS AND/OR PLANS ARE NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND OWNER.
10. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONTRACTOR FOR APPROVAL PRIOR TO ORDERING & INSTALLING ANY EQUIPMENT OR MATERIALS.
11. THE CONTRACTOR MAY SUBMIT FOR APPROVAL, 10 DAYS PRIOR TO PRESENTATION OF NEGOTIATED PRICE, A LIST OF ALTERNATE MANUFACTURERS OF ALL ITEMS SPECIFIED ON THESE DRAWINGS.
12. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, & ELECTRICAL DRAWINGS TO LOCATE DERESSED SLABS, SCOPES, DRN'S, RISERS, NOT SETTING IN CONFLICT WITH DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
13. DESIGN FLASHING ABOVE ROOF LINE.
14. SUPERIMPOSED LOADS SUCH AS AC UNITS AND OTHER MECHANICAL, EQUIPMENT, SHOP DRAWINGS OF EQUIPMENT AND PROVIDE STRUCTURAL FRAMING SHALL BE SUBMITTED TO THE CONTRACTOR FOR APPROVAL.

S. SITE NOTES

1. GENERAL CONTRACTOR TO VERIFY THE EXISTING TOPOGRAPHIC LEVELS, LOCATIONS OF EXIST TREES, AND THE PROPOSED HOUSE LOCATION. GENERAL CONTRACTOR TO COMMUNICATE TO OWNER ANY RECOMMENDED CHANGES BEFORE THE START OF ANY WORK.
2. SUPERVISOR STATE OUT OR VERIFY THE LICENSED ENGINEER OR LICENSED SURVEYOR STATE OUT OR VERIFY THE STRUCTURE LOCATION TO ENSURE THAT THE STRUCTURE DOES NOT ENCRONCH ON ANY SETBACKS OR EASEMENTS, UNLESS THE ENCROACHMENT IS ALLOWED BY ZONING AND BUILDING CODES. GENERAL CONTRACTOR TO COMMUNICATE TO OWNER ANY ENCROACHMENT ISSUES.
3. NO EXCAVATION SHALL BE MADE WHOSE DEPTH BELOW AN EXIST' NG FOOTING IS GREATER THAN 1/2 THE HORIZONTAL DISTANCE FROM THE NEAREST EDGE OF THAT FOOTING.
4. ALL BACKFILL AT STRUCTURES, SLABS, STEPS, & PAVEMENTS SHALL BE CLEAN F.L. COMPACT TO 95% MAX. DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557. BUILDING SITE SHALL BE DRY SO THAT EROSION WILL NOT OCCUR IN THE FOUNDATION.
5. BACKFILL SHALL BE BROUGHT UP EQUALLY ON EACH SIDE OF WALLS.
6. BACKFILL ADJACENT TO BASEMENT RETAINING WALL SHALL NOT BE PLACED UNTIL THE WALL HAS SUFFICIENT STRENGTH AND HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY THE BACKFILL.
7. GENERAL CONTRACTOR TO COORD NATE FINISH TOPOGRAPHIC GRADING AND PAYING OF WALKS, DRIVEWAYS, PATIOS, ETC. AS REQUIRED FOR POSITIVE DRAIN AWAY FROM THE HOUSE.
8. DRIVEWAY SHALL BE ON UNDISTURBED OR COMPACTED, NON-ORGANIC SUBGRADE, WITH MINIMUM 4" CRUSHER RUN GRAVEL BASE, & TOPPED WITH EITHER 4" FIBER REINFORCED CONCRETE, OR 2" MIN. ASPHALT BASE WITH 1" MIN. BUSH ASPHALT.
9. GENERAL CONTRACTOR TO COORD NATE ALL LANDSCAPING WITH THE OWNER, AND DETERMINE WHETHER THE LANDSCAPING PACKAGE IS TO BE PROVIDED BY THE GENERAL CONTRACTOR BY APPROVED.

C. CONSTRUCTION NOTES

1. THESE PLANS ARE DESIGNED TO MEET OR EXCEED THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE LOCAL ORDINANCES AND ANY OTHER CODES THAT ARE TO BE CONS DERED AS PART OF THE SPECIFICATIONS OF THIS BUILDING.
2. CONTRACTOR SHALL VERIFY REQUIREMENTS WITH THE LOCAL CODES ENFORCEMENT OFFICIAL TO MEET THE REQUIREMENTS OF CONSTRUCTION AS REQUIRED.
3. ALL CONCRETE SHALL BE SHOWN ON STANDARD CONSTRUCTION DETAILS & PROCEDURES TO CONFORM WITH THE LOCAL CODES.
4. CONTRACTOR SHALL VERIFY WITH CODE ENFORCEMENT OFFICIAL THE WEATHERPROOFED FINISHED PRODUCT.
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6. CONSTRUCTION MEETS OR EXCEEDS ALL SEISMIC CODES AND/OR (SHOW LOADS IF APPLICABLE) AS PER THE LOCAL JURISDICTION.
7. THE ARCHITECT HAS NOT BEEN ENGAGED FOR FINISHES OF THE PROJECT. ADDITIONAL INFORMATION SHALL BE OBTAINED FROM THE ARCHITECT IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK.
8. W/NOO SIZES INDICATED ON THE PLANS ARE NOTED BY OPENING ROUGH OPENING SIZES. CONTRACTOR TO COORDINATE ROUGH OPENING REQUIREMENTS WITH THE WINDOWS SPECIFIED.
9. REFER TO FLOOR PLAN & EXTERIOR ELEVATIONS FOR THE TYPES OF WINDOWS. CONTRACTOR TO ENSURE THAT ANYWALLS BE REPLACED CONCRETE SHALL EXCEEDS ALL APPLICABLE CODES. IF THERE IS A DISCREPANCY BETWEEN THE ELEVATIONS, WOOD BURN NG FLUE PIPES SHALL BE USED TO ENSURE THAT A SPARK ARREST NG GAS, PROVIDE COMBUSTION AIR, WITH SCREEN & BACKDRAFT DAMPER, OR OTHER CODES SHALL BE USED TO ENSURE COMPLIANCE WITH AN OPEN FLAME.
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14. THE WINDOW ROUGH OPENING HEAD HEIGHTS ARE NOTED ON DRAWINGS.

P. PLUMBING NOTES

1. PLUMBING SUBCONTRACTOR TO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND SAFETY REQUIREMENTS.
2. PROVIDE GAS SERVICE TO ALL WATER HEATERS AND HVAC EQUIPMENT AS REQUIRED.
3. CONTRACTOR TO COORDINATE GAS SERVICE REQUIREMENTS WITH THE OWNER & GAS SUPPLIER.
4. F WALL PLUMBING OR JOISTS ARE CUT OUT FOR THE INSTALLATION OF PLUMBING FUTURES OR FRAMING BACK TOGETHER.
5. LOCATE WATER HEATERS IN WATER RETAINING WALLS. PROVIDE AUXILIARY DRAIN TO OUTSIDE FOR POSSI BLE OVERFLOW.
6. ALL PLUMBING AND MECHANICAL VENT STACKS TO BE LOCATED CLOSE TOGETHER IN THE ATTIC. VENT STACKS TO BE LOCATED TO THE REAR OF THE HOUSE, AWAY FROM PROMINENT VENTS, AND PAINTED TO CLOSELY MATCH ROOF COLOR.
7. GENERAL CONTRACTOR TO COORDINATE HOUSE VENT LOCATIONS WITH OWNER.
8. PROVIDE AN INSIDE MAIN WATER CUTOFF AND PRESSURE REDUC NG VALVE AT AN EASILY ACCESSED LOCATION.

FN. FOUNDATION NOTES

1. GENERAL CONTRACTOR TO INSPECT THE JOB SITE AND THE EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. GENERAL CONTRACTOR TO COORDINATE WITH THE LOCAL CODES ENFORCEMENT OFFICIAL TO MEET THE REQUIREMENTS OF CONSTRUCTION AS REQUIRED.
2. ANY CMU BASEMENT AND/OR FOUNDATION REGARDING SOLIS, GROUND WATER, OR ANY OTHER ISSUE WHICH MAY REQUIRE ADDITIONAL SPECIAL ENGINEERING DESIGN BY A LICENSED STRUCTURAL ENGINEER.
3. CONTRACTOR SHALL VERIFY WITH CODE ENFORCEMENT OFFICIAL THE WEATHERPROOFED FINISHED PRODUCT.
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14. THE WINDOW ROUGH OPENING HEAD HEIGHTS ARE NOTED ON DRAWINGS.

FOUNDATION FLOOR NOTES

1. ALL STRUCTURAL STEEL SHALL BE OF DOMESTIC MANUFACTURE CONFORMING TO ASTM A-36 & STANDARD AISI SPECIFICATIONS.
2. REINFORCING STEEL SHALL BE OF NEW B-16 (INTERIOR & EXTERIOR) WITH MINERAL WOOL MANUFACTURED FOR CONCRETE DRAFT STOPPING AT EACH FLOOR LEVEL.
3. CONTRACTOR TO CONSULT & COORDINATE WITH THE LOCAL CODES ENFORCEMENT OFFICIALS FOR SECURITY SYSTEMS.
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9. REFER TO FLOOR PLAN & EXTERIOR ELEVATIONS FOR THE TYPES OF WINDOWS. CONTRACTOR TO ENSURE THAT ANYWALLS BE REPLACED CONCRETE SHALL EXCEEDS ALL APPLICABLE CODES. IF THERE IS A DISCREPANCY BETWEEN THE ELEVATIONS, WOOD BURN NG FLUE PIPES SHALL BE USED TO ENSURE THAT A SPARK ARREST NG GAS, PROVIDE COMBUSTION AIR, WITH SCREEN & BACKDRAFT DAMPER, OR OTHER CODES SHALL BE USED TO ENSURE COMPLIANCE WITH AN OPEN FLAME.
10. REFER TO EXTERIOR ELEVATIONS FOR THE TYPES OF WINDOWS. CONTRACTOR TO ENSURE THAT ANYWALLS BE REPLACED CONCRETE SHALL EXCEEDS ALL APPLICABLE CODES. IF THERE IS A DISCREPANCY BETWEEN THE ELEVATIONS, WOOD BURN NG FLUE PIPES SHALL BE USED TO ENSURE COMPLIANCE WITH AN OPEN FLAME.
11. CONTRACTOR TO CONSULT & COORDINATE WITH THE LOCAL CODES ENFORCEMENT OFFICIALS FOR SECURITY SYSTEMS.
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13. CONTRACTOR TO CONSULT & COORDINATE WITH THE LOCAL CODES ENFORCEMENT OFFICIALS FOR SECURITY SYSTEMS.
14. THE WINDOW ROUGH OPENING HEAD HEIGHTS ARE NOTED ON DRAWINGS.

CONCRETE FOOTING NOTES

1. ALL FOOTINGS TO REST ON UNDISTURBED OR COMPACTED SOIL OR GRAVEL WITH A MINIMUM BEARING CAPACITY OF 2,000 LBS PER SQUARE FOOT. EXCAVATE SOFT SOILS WHERE NECESSARY AND FILL WITH 3,000 PSI CONCRETE. FORM SIZES OF FOOTINGS WITH WOOD WHERE REQUIRED.
2. GENERAL CONTRACTOR TO VERIFY FOOTING DEPTHS WITH LOCAL, FPOH REQUIREMENTS OR EXIST NG SOIL CONDITIONS, WHICHEVER IS MORE RESTRICTIVE.
3. (A) TOPS OF FOOTINGS ARE AT SAME ELEVATION AT JUNCTION OF WALL FOOT NG AND COLUMN FOOTING. (B) WALL FOOTING REINFORCEMENT TO RUN CONTINUOUS THROUGH COLUMN FOOTING. REINFORCEMENT TO RUN CONTINUOUS THROUGH COLUMN FOOTING. (C) BOTTOM OF FOOTING OF HIGHER FOOTING TO STEP TO BOTTOM OF LOWER FOOTING AT SLOPE OF 1:1 HORIZONTAL TO 3:1 VERTICAL.
4. CONCRETE IN FOOTINGS SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI. CONCRETE FOOTINGS SHALL NOT BE POURED THROUGH WATER, AND SHALL BE PROTECTED FROM FREEZING DURING DEPOSITION AND FOR A PERIOD NOT LESS THAN FIVE (5) DAYS THEREAFTER.
5. ALL FOOTINGS SHALL BE CENTERED UNDER WALL OR COLUMN, UNLESS OTHERWISE NOTED ON PLANS.
6. FOOTING SIZES SHOWN ARE ONLY TYPICAL FOR STATED SOIL PRESSURES AND ARE NOT TO BE COMPROMISED, WHICHEVER IS MORE RESTRICTIVE.

FOUNDATION CMU NOTES

1. FROST PROTECTION: ALL MASONRY SHALL BE PROTECTED AGAINST FREEZING FOR NOT LESS THAN 48 HOURS AFTER INSTALLATION, AND SHALL NOT BE CONSTRUCTED OR FINISHED AT TEMPERATURES, OR BELOW 36 DEGREES F.
2. ON BONDING: MASONRY WALLS AND PARTITIONS SHALL BE SECURELY ANCHORED OR BONDED AT JOINTS WHERE THEY INTERSECT BY ONE OF THE FOLLOWING METHODS: (A) BY LAYING AT LEAST 50% OF THE UNITS AT THE INTERSECTION IN MASONRY BOND, WITH ALTERNATE UNITS HAVING NEAR NO OF NOT LESS THAN 4" UPON THE UNIT BELOW. (B) THEY MAY BE ANCHORED WITH METAL WIRE TIES OF JOINT REINFORCEMENT AT VERTICAL INTERVALS NOT TO EXCEED 24" OR (C) BY OTHER EQUIVALENT APPROVED ANCHORAGE.

H. H.V.A.C. NOTES

1. MECHANICAL SUBCONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL APPLICABLE CODES AND SAFETY REQUIREMENTS.
2. ALL HVAC CONTRACTORS TO PROVIDE F.NAL SYSTEM LAYOUT DRAWING AND SUBMIT IT TO THE GENERAL CONTRACTOR FOR REVIEW AND APPROVAL. EQUIPMENT SUPPLIER FOR REVIEW AND APPROVAL.
3. LAVATORY & BATH VENT LATION: (A) ALL VENTS SHALL BE MECHANICALLY VENTILATED THROUGH NON-COMBUSTIBLE DUCTS TO BE CHANGED AT EACH EXTERIOR WALL TO CONCRETE FOOTINGS AT EACH EXTERIOR REAR, OR AT 4" O.C. AND AT EACH CORNER. (B) ALL KITCHEN RANGE HOODS SHALL BE MECHANICALLY VENTILATED THROUGH NON-COMBUSTIBLE DUCTS TO BE CHANGED AT EACH EXTERIOR WALL TO CONCRETE FOOTINGS AT EACH EXTERIOR REAR, OR AT 4" O.C. AND AT EACH CORNER. (C) ALL KITCHEN RANGE HOODS SHALL BE MECHANICALLY VENTILATED THROUGH NON-COMBUSTIBLE DUCTS TO BE CHANGED AT EACH EXTERIOR WALL TO CONCRETE FOOTINGS AT EACH EXTERIOR REAR, OR AT 4" O.C. AND AT EACH CORNER. (D) ALL KITCHEN RANGE HOODS SHALL BE MECHANICALLY VENTILATED THROUGH NON-COMBUSTIBLE DUCTS TO BE CHANGED AT EACH EXTERIOR WALL TO CONCRETE FOOTINGS AT EACH EXTERIOR REAR, OR AT 4" O.C. AND AT EACH CORNER. 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FASTENING SCHEDULE		
CONNECTION	FASTENER	LOCATION
JOIST TO SILL OR GIRDER	4 - 1/8" COMMON	TOE NAIL PER JOIST
BOE DING TO JOIST	2 - 8/0 COMMON	TOE NAIL EACH END
SOLE PLATE TO JOIST OR BLOCK NG	3 - 1/8" @ 12" O.C.	TYPICAL FACE NAIL
TOP PLATE TO STUD	2 - 1/8" COMMON	END NAIL
STUD TO SOLE PLATE	4 - 8/0 COMMON	TOE NAIL
	2 - 1/8" COMMON	END NAIL
DOUBLE STUDS	2 - 1/8" @ 24" O.C.	FACE NAIL
DOUBLE TOP PLATES	2 - 1/8" @ 24" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	4 - 1/8" COMMON	LAP SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	2 - 1/8" COMMON	TOE NAIL EACH END
RM JOIST TO TOP PLATE	3 - 1/8" @ 12" O.C.	TOE NAIL
TOP PLATES, LAPS, & INTERSECTIONS	5 - 1/8" COMMON	BLOCKING TO SILL OR TOP PLATE (TOE NAIL); 4 - 1/8" EACH BLOCK
		BAND JOIST TO JOIST (END NAIL); 4 - 1/8" PER JOIST
CONTINUOUS HEADER, TWO PIECES	1/8" COMMON @ 1/8" O.C.	ALONG EDGE
CE LING JOISTS TO PLATE	4 - 1/8" COMMON	TOE NAIL
CONTINUOUS HEADER TO STUD	4 - 8/0 COMMON	TOE NAIL
CE LING JOISTS, HIPS OVER PARTITIONS	4 - 1/8" COMMON, MINIMUM	FACE NAIL
CE LING JOISTS, PARALLEL TO RAFTERS	4 - 1/8" COMMON, MINIMUM	FACE NAIL
RAFTER TO PLATE, HURRICANE CL PS	3 - 1/8" COMMON	TOE NAIL
BU LT UP CORNER STUD	2 - 1/8" COMMON @ 24" O.C.	FACE NAIL AT TOP & BOTTOM, STAGGERED ON OPPOSITE SIDES
BU LT UP GIRDER & BEAMS	200 COMMON @ 32" O.C.	FACE NAIL AT ENDS & AT EACH SPLICE
		FACE NAIL
COLLAR T E TO RAFTER	3 - 1/8" COMMON	TOE NAIL
JACK Rafter TO HIP	5 - 1/8" COMMON	TOE NAIL
		FACE NAIL
ROOF Rafter TO 2x6 Ridge Beam	2 - 1/8" COMMON	TOE NAIL
		FACE NAIL
JOIST TO BAND JOIST	4 - 1/8" COMMON	TOE NAIL
LEDGER STRIP	3 - 1/8" COMMON PER FOOT	FACE NAIL
WOOD STRUCTURE PANELS & PARTICLE BOARD: SUBFLOOR, ROOF, & WALL SHEATHING (TO FRAMING)	1/2" & LESS	8/0 COMMON; 6" O.C. EDGE SPACING 12" O.C. F. ELD SPACING
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)		
PANEL SIDING TO FRAMING	1/2" & LESS	8/0 COMMON; 6" O.C. EDGE SPACING 12" O.C. F. ELD SPACING
FIBERBOARD SHEATHING	1/2"	8/0 ROOFING; 3" O.C. EDGE SPACING 8" O.C. F. ELD SPACING

ABBREVIATIONS

A/C	AIR CONDITIONING	FD	FLOOR DRAIN	NEO	NEOPRENE	TBS	TO BE SELECTED
ABV	ABOVE	FE	FIRE EXTINGUISHER	NIC	NOT IN CONTRACT	T	TREAD
ACQST	ACOUSTICAL	FEC	FIRE EXTINGUISHER CABINET	NO	NUMBER	T&G	TEMPERED, TEMPORARY
AD	AREA DRAIN	FH	FINISH FLOOR	NTS	NOT TO SCALE	TH	THICKNESS
ADJ	ADJUSTABLE, ADJACENT	FHC	FIRE HOSE CABINET	OC	ON CENTER	THOLD	THRESHOLD
AF	ABOVE FINISH FLOOR	FIN	FINISHED	OD	OUTSIDE DIAMETER	TH	THROAT
ALT	ALTERNATE	OH	OPPOSITE HAND, OVERHEAD	OH	OPPOSITE HAND, OVERHEAD	TLT	TOILET
ALUM	ALUMINUM	FLR	FLOOR	O-O	OUT TO OUT	TOC	TOP OF CURB
ARCH	ARCHITECTURAL	FRM	FRAMING	OPNG	OPENING	TOW	TOP OF WALL
		FRNG	FRAMING (FASTENED)	OPP	OPPOSITE	TRTD	TREATED
BD	BOARD	FTG	FOOT NG			TYP	TYPICAL
BET	BETWEEN	FUR	FURR NG	PEMB	PRE-ENGINEERED METAL BLDG.		
BLDG	BUILD NG			PL	PROPERTY LINE	UN	UNLESS NOTED
BLKG	BLOCKING	GA	GAUGE/ GAGE	PLAM	PLASTIC LAMINATE	OR	OTHERWISE
BM	BENCHMARK, BEAM	GALV	GALVANIZED	PLAS	PLASTIC, PLASTER	UR	URNAL
BOC	BOTTOM OF CURB	GL	GLASS	PLYWOOD	PLYWOOD		
BOW	BOTTOM OF WALL	GYP	GYPSON	POB	POINT-OF-BEGINNING	VB	VAPOR BARRIER
BEARING				PR	PRESSURE	VINYL	VINYL BASE
BTM	BOTTOM	HB	HOSE BIB	PRFAB	PREFABRICATED	VCT	VINYL COMPOSITION TLE
BUR	BU LT UP ROOF	HCR	HOLLOW CORE	PT	POINT	VERT	VERTICAL
		HD	HEADER	P.T	PRESSURE TREATED		
CAB	CABINET	HDW	HARDWARE	PTD	PAINTED	W	WIDE WIDTH
CAS	CATCH BASIN	HOR	HORIZONTAL	PVC	POLYVINYL CHLORIDE	W/O	WITHOUT
CEM	CEMENT	HM	HOLLOW METAL			WC	WATER CLOSET
CHNL	CHANNEL	HP	HIGH POINT			WOD	WOOD
CJ	CONTROL JOINT	HRT	HOUR	R	RISER, RADUIS	WOW	WOOD
CL	CELL NG	HGT	HEIGHT	RA	RETURN AIR	WR	WATER HEATER
CLR	CLEARANCE	INSUL	INSULATION	RAG	RETURN AIR GRILL	WHM	WELDED WIRE MESH
CMF	CORRUGATED METAL P RE	ID	INSIDE DIAMETER	RAR	RETURN AIR REGISTER		
CAU	CONCRETE MASONRY UNIT	INT	INTERIOR	RB	RUBBER BASE		
CONC	CONCRETE	INVT	INVERT	RCP	REFLECTED CEILING PLAN	∠	ANGLE
CONST	CONSTRUCTION	IPS	IRON PIPE SIZE	REF	REFRIGERATOR	@	AT
CONT	CONTINUOUS CONTINUE	JST	JOIST	REFL	REFLECTED	C	CENTERLINE
COORD	COORDINATE	JOINT	JOINT	REFN	REFINISHED	Ø	DIAMETER
CORR	CORRUGATED CORRIDOR	KIT	KITCHEN	RET	RETAINING	Ø	PENNY
CRS	COURSES	KT	KITCHEN	RM	ROOM	Ø	PLATE
CT	CERAMIC TILE	L	LENGTH LONG	RO	ROUGH OPENING		
CTOK	COUNTERSINK	LAM	LAMINATED	RS	ROUGH SAWN		
DA	DOUBLE ACTING	LL	LIVE LOAD	RLH	ROUGH LONG HORIZONTAL		
DF	DRINKING FOUNTAIN	LV	LONG LEG VERTICAL	RVL	ROUGH VERTICAL		
DA	DIAMETER	LP	LONG LEG HORIZONTAL	RWL	ROUGH WOOD LEAD		
DM	DIMENSION	LOW	LOW POINT	SAR, RAS	SHELF AND ROD		
DL	DEAD LOAD	LS	LOUVER	SA	SOUND		
DR	DOWN			SARF	SOUND ATTENUATION FIRE BLANKET		
DS	DOWN SPOUT			SAG	SUPPLY AIR GRILL		
DTL	DETAIL			SAR	SUPPLY AIR REGISTER		
DW	DISH WASHER			SCH	SCHEDULE		
DWG	DRAWING			SCWD	SOLID CORE WOOD DOOR		
EFC	EACH FACE			SCWD	SOLID CORE WOOD DOOR		
EFS	EXTERIOR INSULATION & FINISH			SEC	SECURE		
EJ	EXPANSION JOINT			SECT	SECTION		
ELEC	ELECTRIC (ELECTRICAL)			SECT	SECTION		
ELEV	ELEVATION, ELEVATOR			SHT	SHEET		
END	END OF CURB			SIM	SIMILAR		
EQ	EQUAL			SJNT	SEALANT		
EOP	EQUIPMENT			SEC	SPECIFICATION(S)		
EWC	ELECTRIC WATER COOLER			SS	STAINLESS STEEL		
EXH	EXHAUST			STD	STANDARD		
EXIST	EXISTING			STB	STEEL TUBE		
EXP	EXPANSION, EXPOSED			STL	STEEL		
EXT	EXTERIOR			STOR	STORAGE		
				STRUCT	STRUCTURAL		
				SUSP	SUSPENDED		

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND SAFETY REQUIREMENTS. VERIFY FUTURE SELECTION AND LOCATION WITH OWNER.
- GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR TO WALK THROUGH THE JOB TO VERIFY THAT THE DESIGN INTENT IS MAINTAINED.
- GAS OR ELECTRICAL SERVICE TO BE PROVIDED AS REG. RED FOR ALL APPLICABLE CODES. SUCH AS REFRIGERATOR, FREEZER, DISHWASHER, DISPOSAL, COOKTOP, OVENS, WASHER, DRYER, HVAC EQUIPMENT, ALARM PANEL, ETC. PROVIDE OUTLET ABOVE RANGE FOR MICROWAVE OR HOOD VENT F. FINAL KITCHEN LAYOUT REQUIRES.
- ALL OUTLETS LOCATED WITHIN 6 FEET OF ANY WATER CONDITION TO BE GFI C.
- SWITCHES AND OUTLETS TO BE COORDINATED WITH THE LOCATIONS OF CABLE TV OUTLETS.
- DIAMETERS TO BE SIZED FOR THE APPROPRIATE LOAD OF THE FIXTURES AND LAMPS SELECTED. SLIDE-TYPE DIMMERS ARE PREFERRED.
- VERIFY TRIM SIZE FOR ALL DOORS AND WINDOWS TO TRIM, AND ALIGN WITH EACH OTHER IF THERE ARE MULTIPLE SWITCHES.
- PREPARE SEPARATE SWITCHES FOR CE LING FAN AND CE LING FAN LIGHT.
- GENERAL CONTRACTOR TO VERIFY WITH THE ARCHITECT AND/OR LANDSCAPE ARCHITECT. ALL LANDSCAPE AND EXTERIOR LIGHT NG CIRCUITS AND SWITCHES.
- GENERAL CONTRACTOR TO VERIFY WITH THE OWNER WHETHER EXTERIOR SECURITY LIGHTS ARE DESIRED. IF SO, GENERAL CONTRACTOR TO VERIFY THE TYPE OF FIXTURE, LOCATION, AND REQUIRED SWITCHING.
- GENERAL CONTRACTOR TO COORDINATE ALL THE REQUIREMENTS OF AN ALARM SYSTEM, IF ONE IS DESIRED.
- EXISTING HARDWIRED MOVIE DETECTORS IN EACH BEDROOM AND OUTSIDE EACH BEDROOM IN CLOSE PROXIMITY, WITH BATTERY BACKUP. SMOKE ALARM TO BE PLACED NO LESS THAN 30" HORIZONTALLY FROM THE OUTSIDE OF A BATHROOM DOOR CONTAINING A BATH TUB/SHOWER. VERIFY WITH LOCAL CODE.
- EXISTING PANEL BOX MAY REQUIRE RELOCATION. PANEL BOX TO BE SIZED TO ACCOMMODATE ALL CALCULATED LOADS, AND PROVIDE FOR A MINIMUM OF EIGHT (8) SPACES.
- DECORATIVE LIGHT FIXTURES TO BE SELECTED BY THE OWNER, AND COORDINATED WITH THE GENERAL CONTRACTOR, THE OWNER TO APPROVE ALL SUBSTITUTIONS.
- GENERAL CONTRACTOR TO COORDINATE THE LAMP SELECTION, PRECESSION CAN SIZE AND TRIM WITH THE OWNER.
- NUMBER OF HVAC UNITS TO BE DETERMINED BY THE LOCAL MECHANICAL CONTRACTOR.
- HVAC UNITS ARE NOT TO BE WRELOCATED NEXT TO MASTER BEDROOM OR PATIO/DECK AREAS.
- LOCAL VENTILATION:
 - PROVIDE 100 CFM VENTILATION FAN (MINIMUM) FOR EACH BATHROOM & LAVATORY.
 - PROVIDE 100 CFM VENTILATION FAN AT KITCHEN RANGE HOOD.
- ELECTRIC AND GAS METERS TO BE LOCATED AWAY FROM ANY PROMINENT VIEW. (VERIFY WITH LOCAL UTILITY).

ELEVATION NOTES

- ELECTRICAL FLASHING TO BE INSTALLED AT ALL CONNECTIONS BETWEEN ROOFS, WALLS, CHIMNEYS, PROJECTIONS, AND PENETRATIONS AS REQUIRED BY APPROVED CONSTRUCTION PRACTICES.
- GENERAL CONTRACTOR TO PROVIDE ADEQUATE ATTIC VENTILATION AND ROOF VENTS PER LOCAL GOVERNING CODE. INSTALL CONTINUOUS VENTILATION, AND PRIME & PAINT TO CLOSELY MATCH ROOF COLOR IF EQUAL TO ROOF FRAMING ANCHORS, HANGERS, HOLD-DOWNS, ETC. FOR ALL WOOD TO WOOD CONNECTIONS. ALL ANCHORS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. BEAMS AND PURLINS SHALL BE CONNECTED WITH METAL CONNECTORS. CONCRETE ANCHORS AND POST BASE CONNECTORS SHALL BE GALVANIZED WITH 1/8" WELD OF ZINC (G-185 COATING) OR STAINLESS STEEL. ALL HARDWARE AND FASTENERS LOCATED NEAR ANCHORS, POST ANCHORS, MECHANICAL FASTENERS, WALL, SHEATHING, ETC. SHALL BE GALVANIZED WITH 1/8" WELD OF ZINC (G-185 COATING) OR SHALL BE STAINLESS STEEL. FOR PRODUCTS SUCH AS "2X4X" FROM SIMPSON-STRONG-TIE OR "TRIPLE ZINC" FROM USP.
- GENERAL CONTRACTOR TO VERIFY THE EXISTING TOPOGRAPHIC GRADES, AND LOCATE DOWNSPOUTS TOWARDS FRONT AND REAR OF HOUSE. BASED ON TOPOGRAPHIC CONDITIONS, TO ALLOW POSITIVE DRAINAGE AWAY FROM THE HOUSE. DO NOT LOCATE DOWNSPOUTS IN PROMINENT LOCATIONS. GENERAL CONTRACTOR TO OBTAIN OWNER APPROVAL OF ALL DOWNSPOUT LOCATIONS. GUTTERS AND DOWNSPOUTS TO CLOSELY MATCH TRIM COLOR OF HOUSE, OR AN APPROPRIATE. DOWNSPOUTS MAY BE COLOR-MATCHED TO PRIMARY ELEVATION MATERIAL.
- GENERAL CONTRACTOR TO VERIFY WITH THE ARCHITECT AND/OR LANDSCAPE ARCHITECT. ALL LANDSCAPE AND EXTERIOR LIGHT NG CIRCUITS AND SWITCHES.
- GENERAL CONTRACTOR TO VERIFY WITH THE OWNER WHETHER EXTERIOR SECURITY LIGHTS ARE DESIRED. IF SO, GENERAL CONTRACTOR TO VERIFY THE TYPE OF FIXTURE, LOCATION, AND REQUIRED SWITCHING.
- GENERAL CONTRACTOR TO COORDINATE ALL THE REQUIREMENTS OF AN ALARM SYSTEM, IF ONE IS DESIRED.
- EXISTING HARDWIRED MOVIE DETECTORS IN EACH BEDROOM AND OUTSIDE EACH BEDROOM IN CLOSE PROXIMITY, WITH BATTERY BACKUP. SMOKE ALARM TO BE PLACED NO LESS THAN 30" HORIZONTALLY FROM THE OUTSIDE OF A BATHROOM DOOR CONTAINING A BATH TUB/SHOWER. VERIFY WITH LOCAL CODE.
- EXISTING PANEL BOX MAY REQUIRE RELOCATION. PANEL BOX TO BE SIZED TO ACCOMMODATE ALL CALCULATED LOADS, AND PROVIDE FOR A MINIMUM OF EIGHT (8) SPACES.
- DECORATIVE LIGHT FIXTURES TO BE SELECTED BY THE OWNER, AND COORDINATED WITH THE GENERAL CONTRACTOR, THE OWNER TO APPROVE ALL SUBSTITUTIONS.
- GENERAL CONTRACTOR TO COORDINATE THE LAMP SELECTION, PRECESSION CAN SIZE AND TRIM WITH THE OWNER.
- NUMBER OF HVAC UNITS TO BE DETERMINED BY THE LOCAL MECHANICAL CONTRACTOR.
- HVAC UNITS ARE NOT TO BE WRELOCATED NEXT TO MASTER BEDROOM OR PATIO/DECK AREAS.
- LOCAL VENTILATION:
 - PROVIDE 100 CFM VENTILATION FAN (MINIMUM) FOR EACH BATHROOM & LAVATORY.
 - PROVIDE 100 CFM VENTILATION FAN AT KITCHEN RANGE HOOD.
- ELECTRIC AND GAS METERS TO BE LOCATED AWAY FROM ANY PROMINENT VIEW. (VERIFY WITH LOCAL UTILITY).

MASONRY NOTES

- STONE & MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH RC SECTION R703.7.
- REQUIRE UNFORMALLY SIZED UNITS COMPLYING WITH ASTM C216, GRADE SW, TYPE FBS, AND LIMECEMENT MORTAR CONFORMING TO ASTM C720, TYPE S.
- INSTALL GALVANIZED ANCHORS @ 18" O.C. EACH WAY, WITH CADIUM-PLATED SCREWS.
- MASONRY VENEER ANCHORS TO BE EMBEDDED INTO THE GROUT OF THE VENEER AT LEAST 1.5 INCHES AND AT LEAST 1/4" OF GROUT COVERAGE BEYOND THE ANCHOR TO THE EXTERIOR AS PER I.R.C. SECTION R703.7.4.
- EXTERIOR WALL COVERINGS & BACKING MATERIALS TO MEET WIND LOADS AS PER I.R.C. SECTION R703.
- THE VENEER SHALL BE SEPARATED FROM THE SHEATHING BY A MINIMUM 1/4" AIR SPACE, BUT NO MORE THAN 1/4".
- FLASHING SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL, ABOVE THE FOUNDATION WALL OR SLAB, AND AT OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHEET ANGLES, & LINTELS, WHEN MASONRY VENEERS ARE DESIGNED IN ACCORDANCE WITH I.R.C. SECTION R703.7.
- WEERS SHALL BE PROVIDED IN THE OUTSIDE WYTHES OF MASONRY WALLS AT A MAXIMUM SPACING OF 32" O.C. WEERS SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING, AS PER I.R.C. SECTION R703.8.6.
- PROVIDE 100 CFM VENTILATION FAN AT KITCHEN RANGE HOOD.
- ELECTRIC AND GAS METERS TO BE LOCATED AWAY FROM ANY PROMINENT VIEW. (VERIFY WITH LOCAL UTILITY).

WOOD DECK NOTES

- EXTERIOR FLASHING TO BE INSTALLED AT ALL CONNECTIONS BETWEEN ROOFS, WALLS, CHIMNEYS, PROJECTIONS, AND PENETRATIONS AS REQUIRED BY APPROVED CONSTRUCTION PRACTICES.
- GENERAL CONTRACTOR TO PROVIDE ADEQUATE ATTIC VENTILATION AND ROOF VENTS PER LOCAL GOVERNING CODE. INSTALL CONTINUOUS VENTILATION, AND PRIME & PAINT TO CLOSELY MATCH ROOF COLOR IF EQUAL TO ROOF FRAMING ANCHORS, HANGERS, HOLD-DOWNS, ETC. FOR ALL WOOD TO WOOD CONNECTIONS. ALL ANCHORS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. BEAMS AND PURLINS SHALL BE CONNECTED WITH METAL CONNECTORS. CONCRETE ANCHORS AND POST BASE CONNECTORS SHALL BE GALVANIZED WITH 1/8" WELD OF ZINC (G-185 COATING) OR STAINLESS STEEL. ALL HARDWARE AND FASTENERS LOCATED NEAR ANCHORS, POST ANCHORS, MECHANICAL FASTENERS, WALL, SHEATHING, ETC. SHALL BE GALVANIZED WITH 1/8" WELD OF ZINC (G-185 COATING) OR SHALL BE STAINLESS STEEL. FOR PRODUCTS SUCH AS "2X4X" FROM SIMPSON-STRONG-TIE OR "TRIPLE ZINC" FROM USP.
- GENERAL CONTRACTOR TO VERIFY THE EXISTING TOPOGRAPHIC GRADES, AND LOCATE DOWNSPOUTS TOWARDS FRONT AND REAR OF HOUSE. BASED ON TOPOGRAPHIC CONDITIONS, TO ALLOW POSITIVE DRAINAGE AWAY FROM THE HOUSE. DO NOT LOCATE DOWNSPOUTS IN PROMINENT LOCATIONS. GENERAL CONTRACTOR TO OBTAIN OWNER APPROVAL OF ALL DOWNSPOUT LOCATIONS. GUTTERS AND DOWNSPOUTS TO CLOSELY MATCH TRIM COLOR OF HOUSE, OR AN APPROPRIATE. DOWNSPOUTS MAY BE COLOR-MATCHED TO PRIMARY ELEVATION MATERIAL.
- GENERAL CONTRACTOR TO VERIFY WITH THE ARCHITECT AND/OR LANDSCAPE ARCHITECT. ALL LANDSCAPE AND EXTERIOR LIGHT NG CIRCUITS AND SWITCHES.
- GENERAL CONTRACTOR TO VERIFY WITH THE OWNER WHETHER EXTERIOR SECURITY LIGHTS ARE DESIRED. IF SO, GENERAL CONTRACTOR TO VERIFY THE TYPE OF FIXTURE, LOCATION, AND REQUIRED SWITCHING.
- GENERAL CONTRACTOR TO COORDINATE ALL THE REQUIREMENTS OF AN ALARM SYSTEM, IF ONE IS DESIRED.
- EXISTING HARDWIRED MOVIE DETECTORS IN EACH BEDROOM AND OUTSIDE EACH BEDROOM IN CLOSE PROXIMITY, WITH BATTERY BACKUP. SMOKE ALARM TO BE PLACED NO LESS THAN 30" HORIZONTALLY FROM THE OUTSIDE OF A BATHROOM DOOR CONTAINING A BATH TUB/SHOWER. VERIFY WITH LOCAL CODE.
- EXISTING PANEL BOX MAY REQUIRE RELOCATION. PANEL BOX TO BE SIZED TO ACCOMMODATE ALL CALCULATED LOADS, AND PROVIDE FOR A MINIMUM OF EIGHT (8) SPACES.
- DECORATIVE LIGHT FIXTURES TO BE SELECTED BY THE OWNER, AND COORDINATED WITH THE GENERAL CONTRACTOR, THE OWNER TO APPROVE ALL SUBSTITUTIONS.
- GENERAL CONTRACTOR TO COORDINATE THE LAMP SELECTION, PRECESSION CAN SIZE AND TRIM WITH THE OWNER.
- NUMBER OF HVAC UNITS TO BE DETERMINED BY THE LOCAL MECHANICAL CONTRACTOR.
- HVAC UNITS ARE NOT TO BE WRELOCATED NEXT TO MASTER BEDROOM OR PATIO/DECK AREAS.
- LOCAL VENTILATION:
 - PROVIDE 100 CFM VENTILATION FAN (MINIMUM) FOR EACH BATHROOM & LAVATORY.
 - PROVIDE 100 CFM VENTILATION FAN AT KITCHEN RANGE HOOD.
- ELECTRIC AND GAS METERS TO BE LOCATED AWAY FROM ANY PROMINENT VIEW. (VERIFY WITH LOCAL UTILITY).

ENERGY CODE

ATTIC ACCESS HATCHES & DOORS MUST BE WEATHER STRIPPED & INSULATED TO THE SAME LEVEL AS THE SURROUNDING SURFACES. SEE AIR SEALING NOTES ON SHEET A304.

FLOOR INSULATION MUST BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDES OF THE SUBFLOOR DECKING.

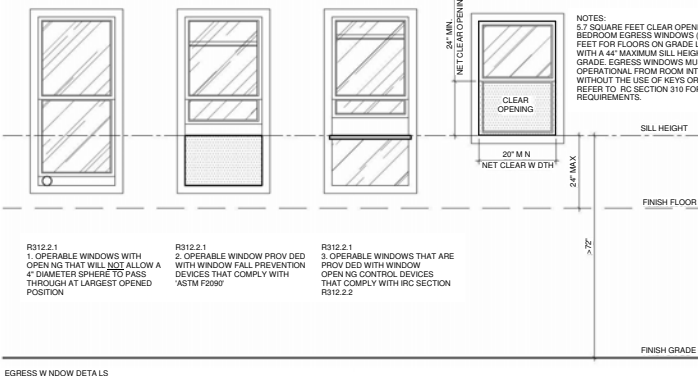
PROGRAMMABLE THERMOSTATS WITH DAY/NIGHT BACKUP CAPABILITY REQUIRED WHERE PRIMARY HEAT NG SYSTEM IS FORCED AIR WITH AN INITIAL SETTING NOT HIGHER THAN 70° FAHRENHEIT FOR HEATING AND NOT LOWER THAN 70° FAHRENHEIT FOR COOLING.

SUPPLY DUCTS IN ATTICS RETURN & INSULATION REQUIREMENT. REQUIREMENTS FOR ALL OTHER DUCTS IN UNCONDITIONED SPACE REDUCED TO R-6.

THE ENTIRE DUCT SYSTEM MUST BE SEALED.

IEC PRESCRIPTIVE REQUIREMENTS	ZONE 4
WINDOWS (U-FACTOR)	0.32
SKYLIGHTS (U-FACTOR)	0.55
GLAZED FENESTRATION SHGC	0.40
CEILING - OPEN ATTIC (R-VALUE)	49 / 38
CEILING - CATHEDRAL (R-VALUE)	38
WOOD FRAME WALL (R-VALUE)	20 / 13.5
MASS WALL (R-VALUE)	8 / 13
FLOOR (R-VALUE)	19
BASEMENT WALL (R-VALUE)	10 / 13
SLAB (R-VALUE)	10.2 FT.
CRAWL SPACE WALL (R-VALUE)	10 / 13

NOTES:
1. 5.7 SQUARE FEET CLEAR OPENING FOR BEDROOM EGRESS WINDOWS (5 SQUARE FEET FOR FLOORS ON GRADE LEVEL WITH A 44" MAXIMUM SLIP HEIGHT ABOVE FINISH FLOOR).
2. EGRESS WINDOWS MUST BE OPERATIONAL FROM ROOM INTERIOR WITHOUT THE USE OF KEYS OR TOOLS. REFER TO RC SECTION R10 FOR CODE REQUIREMENTS.



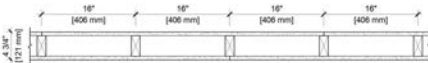

CANSLER AVE DUPLEX
NEW RESIDENTIAL CONSTRUCTION

210 Cansler Ave, Knoxville, Tennessee

DRAWN BY: MB
CONSTRUCTION NOTES

G002

PROJECT : 25003

<p>DESIGN NO. UL U305</p> <p>FIRE RATING: 1 HOUR (TC) RATING: 33 SOUND TEST: USG-15/24 SYSTEM THICKNESS: 4 3/4" (121 mm) LOCATION: INTERIOR FRAMING TYPE: WOOD STUD (LOAD-BEARING)</p> 	
<p>ASSEMBLY REQUIREMENTS:</p> <p>GYPSUM PANELS: ONE LAYER 5/8" (15.9 mm) SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULX™) WOOD STUDS: 2" x 4" (51 x 89 mm) WOOD STUDS, 16" (406 mm) O.C. GYPSUM PANELS: ONE LAYER 5/8" (15.9 mm) SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULX™)</p>	<p>GENERAL WALL NOTES:</p> <ol style="list-style-type: none"> 1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION. 2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN. 3. WHERE DESIGN NO. INDICATES "YES", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES. 4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY. 5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY. 6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN. 7. FIRE RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED. 8. FIRE RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. 9. INVERSE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE. THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES. 10. SOUND RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.
<p>USG CGC</p> <p>USG Corporation 100 West Kinross Street Chicago, IL 60601 USA 800.452.2500 E: 800.usg@usg.com</p> <p>© 2023 USG Corporation. All rights reserved. USG, the USG logo, and CGC are trademarks of USG Corporation. All other marks are the property of their respective owners.</p>	<p>UL U305</p> <p>UL Underwriters Laboratories Inc. 3601 Riverchase Lane Chicago, IL 60631 USA 800.452.2500 E: 800.ul@ul.com</p> <p>RECORD Revision: 04 10/25/2023 11:34:24 AM</p> <p>SHEET INFORMATION: W-P-1-03</p>

[illegible]

FOUNDATION NOTES

1. ASSUME SOIL BEARING PRESSURE OF 2500 PSI. TOPOGRAPHY AND GRADE TO BE DETERMINED BY CIVIL ENGINEER.
2. IF CRAWL SPACE WALL IS OVER 10'-0" HIGH, 8"x12" CMU TO BE UTILIZED.
3. APPROXIMATE SITE LOCATION AND TOPOGRAPHY SHOWN. GENERAL CONTRACTOR TO WORK WITH CIVIL AND STRUCTURAL TEAM TO CLARIFY HOME LOCATION AND RETAINING REQUIREMENTS ON THE PROPOSED SITE BASED ON LOCATION WITHIN SETBACK REQUIREMENTS AND ANY CITY, CODE, OR SEPTIC REQUIREMENTS PRIOR TO SUBMISSION.
4. FOUNDATION IS LAID OUT FOR A SITE WITH NO MORE THAN 10% SLOPE. IF THE SLOPE IS GREATER THAN 10%, CONFIR WITH A STRUCTURAL ENGINEER.
5. PROVIDE 10 MIL POLY VAPOR BARRIER.
6. PROVIDE FOUNDATION VENTS PER IRC R408.1 (THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL BE NOT LESS THAN 1 SQUARE FOOT FOR EACH 1,500 SQUARE FEET OF UNDER FLOOR SPACE AREA. ONE SUCH VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING).
7. STEP FOUNDATION AS REQUIRED FOR SITE.
8. FIELD LOCATE A MIN OF 18" X 24" ACCESS DOOR.

WALL LEGEND

- 2x4 WOOD STUDS @16" O.C. WITH R-20 BATT INSULATION
- 1/2" GYP BOARD INTERIOR SIDE
- 1/2" PR WOOD SHEATHING, TYPEK WEATHER BARRIER & SIDING EXTERIOR SIDE (SEE EXTERIOR ELEVATIONS)
- 2x4 WOOD STUDS @16" O.C.
- 1/2" GYP BOARD BOTH SIDES
- 8" CMU FOUNDATION WALL
- 1 HR. SEPARATION 2x6 WALL - UL U305
- 1 HR. EXTERIOR 2x4 WALL - GP-EPFW-62

WINDOW LEGEND:

- SH SINGLE HUNG
- S SLIDING

FLOOR PLAN NOTES:

TYPICAL BLOCKING NOTE:

PROVIDE WOOD BLOCKING IN THE WALLS AS REQUIRED TO SUPPORT & ATTACH ALL WALL HUNG ITEMS SUCH AS CABINETS, BRACKETS, HAND RAILS, GRAB BARS, ETC. THE BLOCKING & ITS ATTACHMENTS SHALL CARRY THE MINIMUM WEIGHT. VERIFY WITH MANUFACTURER.

TYPICAL WINDOW NOTE:

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION:

- THE EXPOSED AREA OF AN INDIVIDUAL PANEL IS LARGER THAN 9 SQUARE FEET
- THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR
- THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR
- ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING

SEE R308.4.3 GLAZING IN WINDOWS FOR EXCEPTIONS (E.G. DECORATIVE GLAZING)

PLAN NOTE:

CABINETRY AND FURNITURE IS SHOWN FOR PLANNING PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH OWNER.

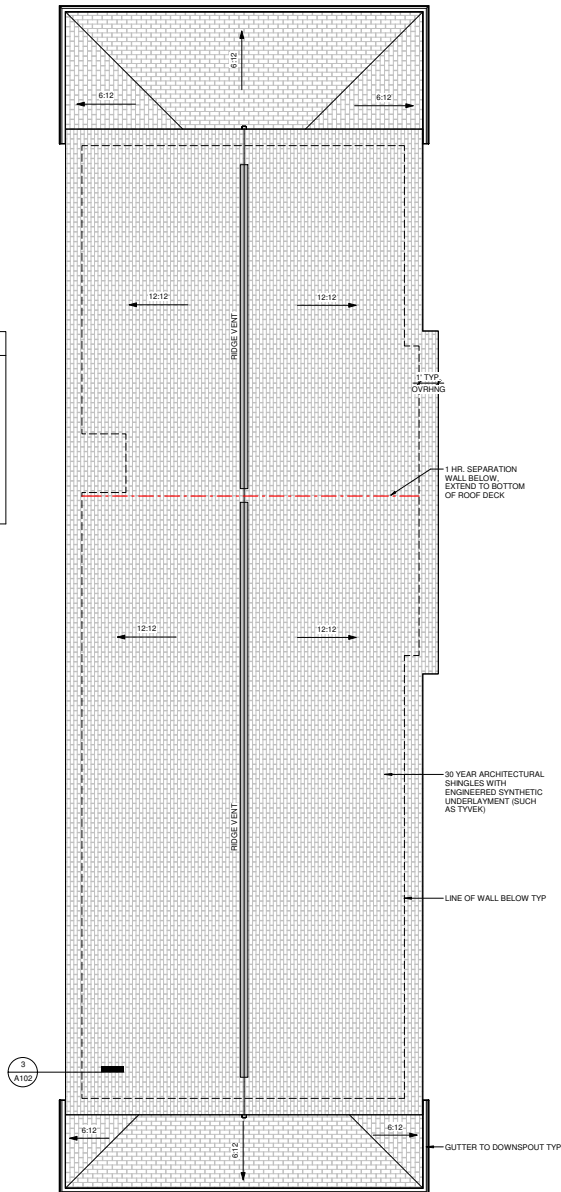
ALL EXTERIOR DOORS TO BE INSULATED, AND HAVE WEATHER STRIPPING AND APPROPRIATE THRESHOLD

TYPICAL DECKS, PATIOS & PORCHES:

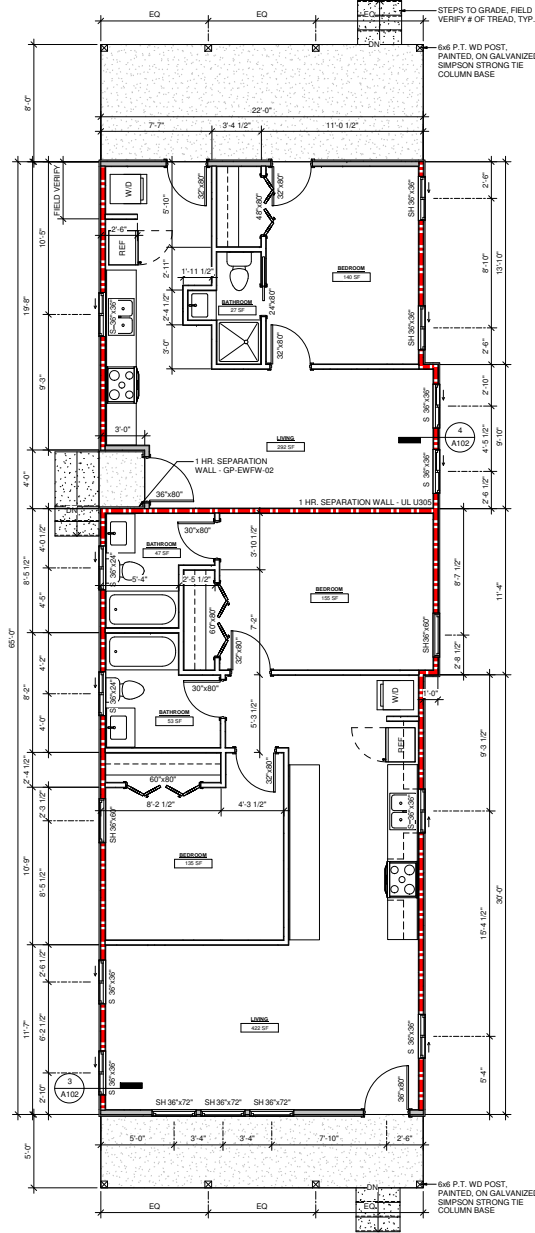
DECKS, PATIOS & PORCHES TO BE 1" BELOW ADJACENT FINISHED FLOOR. PROVIDE FLASHING AT ALL FLOOR TRANSITIONS AT DECK, PATIOS, & PORCHES

IF THE FINISHED FLOOR HEIGHT OF THE DECK IS 30" ABOVE GRADE, STAIRS AND RAILINGS TO GRADE MUST BE ADDED. RAILINGS TO BE 36" TALL WITH A MINIMUM OF 4" TOP AND BOTTOM RAILS WITH 2" PICKETS SPACED AT NO MORE THAN 3 7/8"

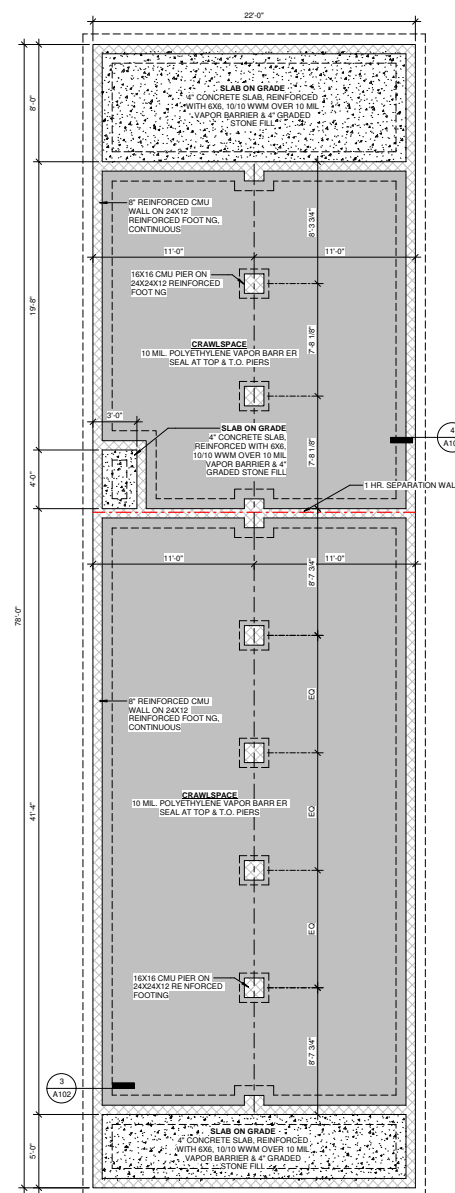
IMPERVIOUS SURFACES TO BE SLOPED AWAY FROM STRUCTURE @ 1/8" PER FOOT



2 FOUNDATION PLAN
 A101 1/4" = 1'-0"



1 MAIN FLOOR PLAN
 A101 1/4" = 1'-0"



3 FOUNDATION PLAN
 A101 1/4" = 1'-0"

CANSLER AVE DUPLEX NEW RESIDENTIAL CONSTRUCTION 210 Cansler Ave, Knoxville, Tennessee

DATE	DESCRIPTION

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FOUNDATION PLAN,
 FLOOR PLAN, &
 ROOF PLAN

A101

PROJECT : 25003

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CANSLER AVE DUPLEX NEW RESIDENTIAL CONSTRUCTION

210 Cansler Ave, Knoxville, Tennessee

DATE	DESCRIPTION

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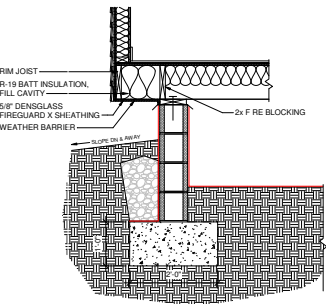
SCHEMATIC FRAMING PLANS & WALL SECTION

A102

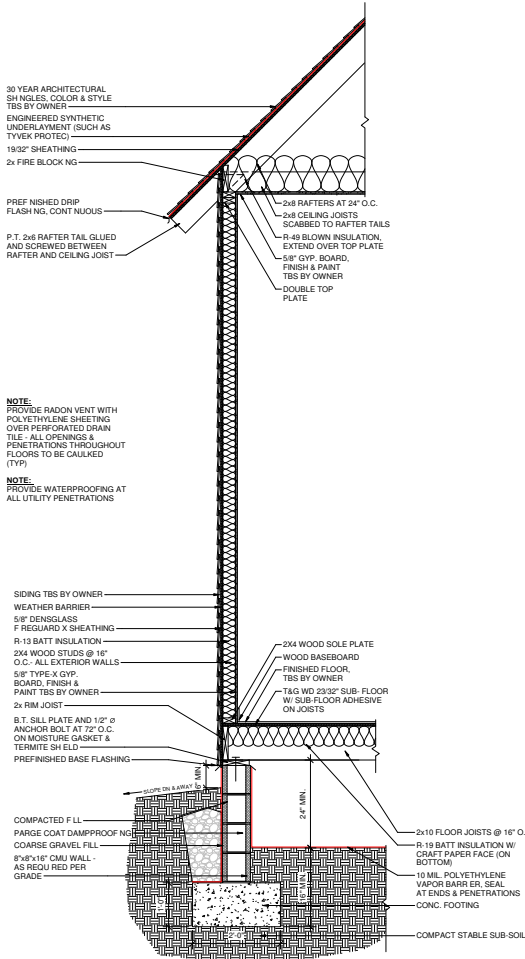
PROJECT : 25003

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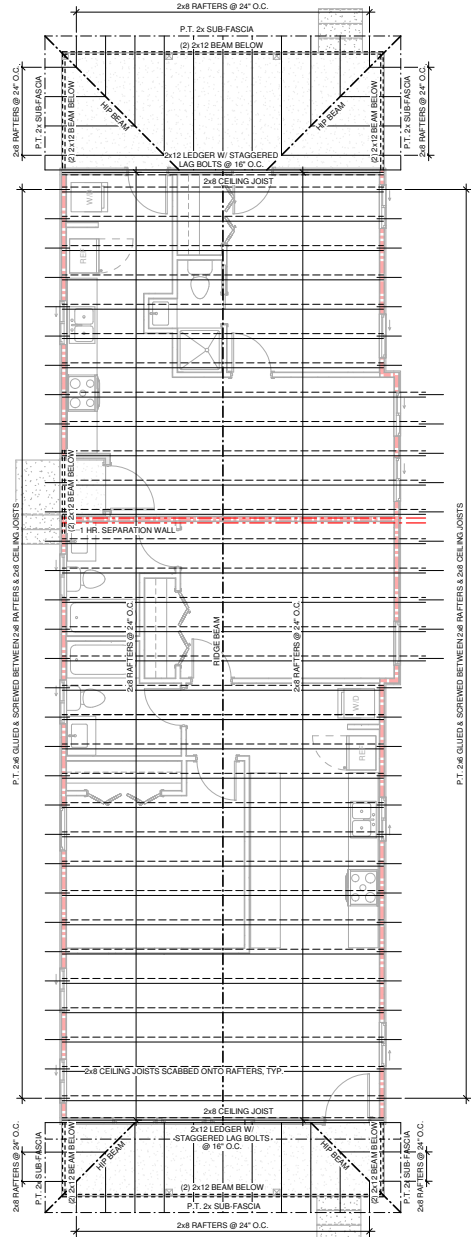
4 BAY WINDOW DETAIL - 1 HR. ASSEMBLY
A102 3/4" = 1'-0"



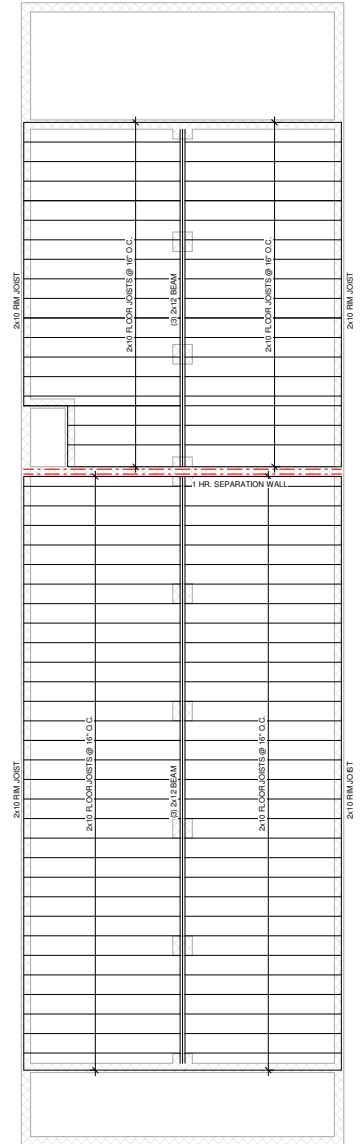
3 TYPICAL WALL SECTION
A102 3/4" = 1'-0"



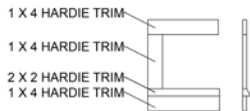
2 SCHEMATIC ROOF FRAMING PLAN
A102 1/4" = 1'-0"



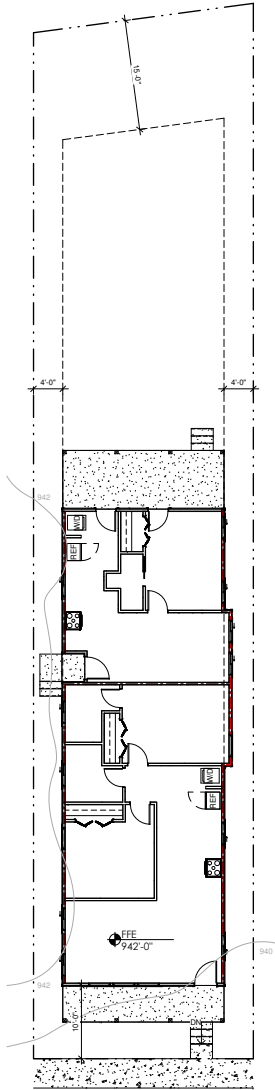
1 SCHEMATIC MAIN FLOOR FRAMING PLAN
A102 1/4" = 1'-0"



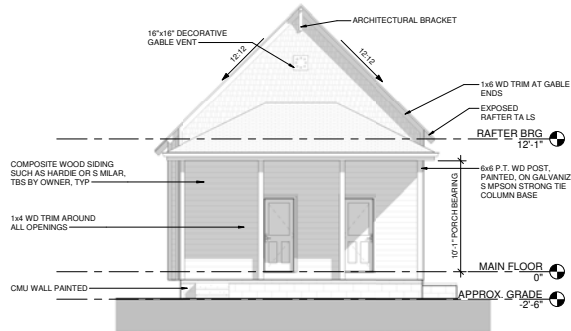
5
A201
ARTICULATED WINDOW & DOOR TRIM DETAIL
NTS



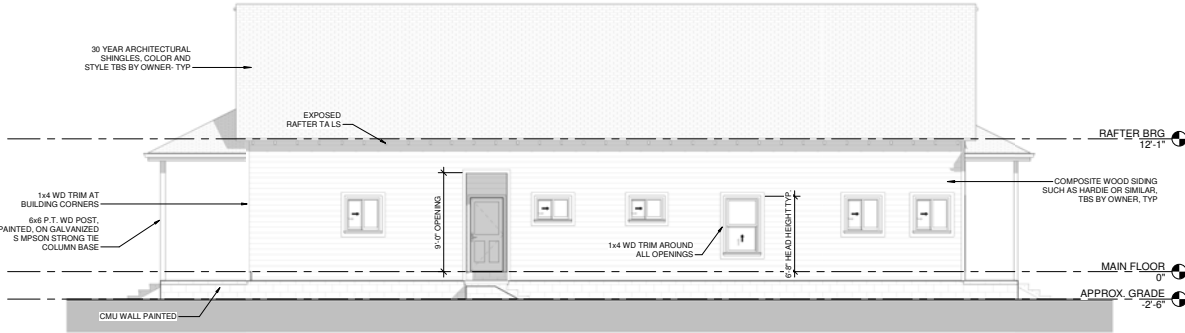
6
A201
ARCHITECTURAL SITE PLAN
1/8" = 1'-0"



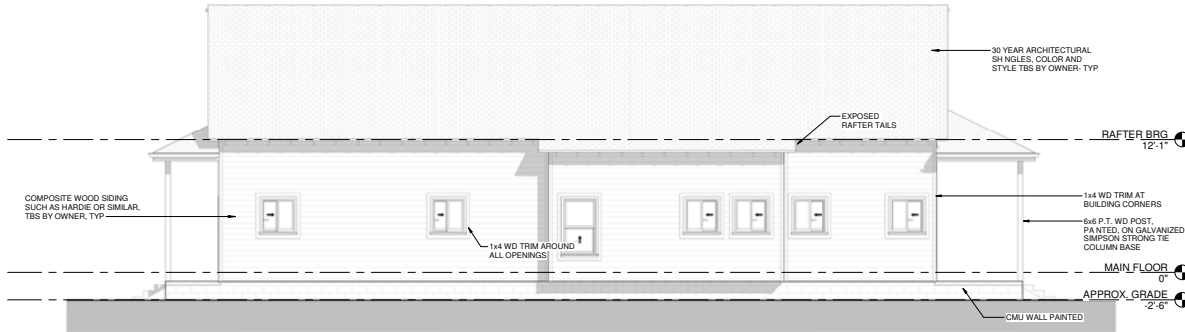
2
A201
REAR ELEVATION
3/16" = 1'-0"



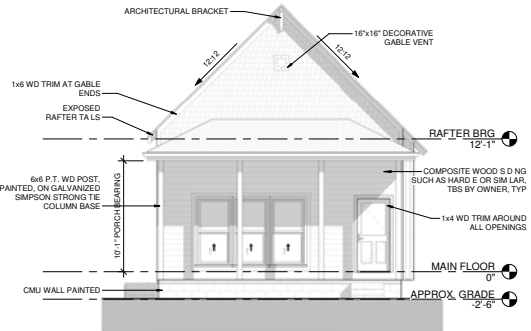
4
A201
LEFT ELEVATION
3/16" = 1'-0"



3
A201
RIGHT ELEVATION
3/16" = 1'-0"



1
A201
FRONT ELEVATION
3/16" = 1'-0"



DESIGN ELEMENTS:

1. STEEP PITCHED ROOF
2. ARTICULATED DOOR AND WINDOW TRIM
3. DECORATIVE GABLE
4. EXPOSED RAFTER TAILS AND PLYBEAD SOFFITS
5. CANTILEVER BAY WINDOW
6. ENTRY FEATURE

EXTERIOR ELEVATION NOTES

APPROXIMATE SITE LOCATION AND TOPOGRAPHY. GENERAL CONTRACTOR TO WORK WITH CIVIL AND STRUCTURAL TEAM TO CLARIFY HOME LOCATION ON PROPOSED SITE AND ANY RETAINING REQUIREMENTS. CONFIRM ANY BUILDING ADJUSTMENTS WITH ARCHITECT BASED ON LOCATION WITHIN SETBACK REQUIREMENTS AND ANY CITY, CODE OR SEPTIC REQUIREMENTS PRIOR TO SUBMISSION.

