



# Staff Report

## Infill Housing Design Review Committee

File Number: 5-E-24-IH

**Meeting:** 7/17/2024  
**Applicant:** Dawn Irion Beit Development LLC  
**Owner:** Dawn Irion Beit Development LLC

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### Property Information

**Location:** 3500 Gap Rd. **Parcel ID** 81 I S 028  
**Zoning:** RN-2 (Single-Family Residential Neighborhood)  
**District:** Lonsdale Infill Housing Overlay District

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### Description of Work

Level III New Primary Structure

New primary structure fronting Gap Road. The house is proposed to be set 25' from the front property line. One-story residence features a front-gable roof (7/12 pitch), an exterior of board-and-batten siding (no material specified), and a slab foundation. A lower front-gable massing projects from the left side of the façade. An entry stoop (4'-5" on site plans, 8' on floor plans) is recessed below the primary roofline, on the right half of the façade. Parking is proposed for a concrete driveway with a turnaround in front of the house.

The façade (west) features paired double-hung windows on the projecting front-gable massing, with a door and another bay of paired windows recessed under the stoop. A fixed window is located in the gable field. The right side (south) elevation features two bays of windows, with one window on the left (north) elevation. A secondary entry and three windows are located on the rear elevation.

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### Applicable Design Guidelines

Heart of Knoxville Infill Housing Design Guidelines

#### 1. Front Yards

- Consistent front yard space should be created along the street with the setback of a new house matching the older houses on the block.
- A walkway should be provided from the sidewalk or street to the front door. Along grid streets, the walk should be perpendicular to the street.
- Healthy trees that are outside the building footprint should be preserved. The root area should be marked and protected during construction.

#### 2. Housing Orientation

- New housing should be proportional to the dimensions of the lot and other houses on the block.
- On corner lots, side yard setbacks should be handled traditionally (that is, closer to the side street). The zoning requirement to treat corner lots as having two frontages should not apply in Heart of Knoxville neighborhoods.
- Side yard setbacks should be similar to older houses on the block, keeping the rhythm of spacing between houses consistent.

### 3. Alleys, Parking, and Services

- Parking should not be in front yards.
- Alley access should be used for garage or parking pad locations. On level ground, pea gravel or similar material may be used as a parking pad off alleys.
- Garages which are perpendicular to the alley should be about 18 feet from the center line of the alley pavement, allowing a comfortable turning radius for a driver to enter a garage.
- Alley-oriented parking pads, garbage collection points, and utility boxes should be screened with a combination of landscaping and fencing.
- On those streets which have alleys, driveways should not be permitted from the front of the house.
- On corner lots, a driveway to the garage may be provided off the side street.

### 4. Scale, Mass, and Foundation Height

- The front elevation should be designed to be similar in scale to other houses along the street.
- The front façade of new houses should be about the same width as original houses on the block.
- New foundations should be about the same height as the original houses in the neighborhood.
- If greater height is to be created (with new construction or an addition), that portion of the house should be located toward the side or rear of the property.

### 5. Porches and Stoops

- Porches should be part of the housing design in those neighborhoods where porches were commonplace.
- Porches should be proportional to original porches on the block, extending about 8-12 feet toward the street from the habitable portion of the house.
- Porches should extend into the front yard setback, if necessary, to maintain consistency with similarly sited porches along the street.
- Porch posts and railings should be like those used in the historic era of the neighborhood's development. Wrought iron columns and other materials that were not used in the early 1900's should not be used.
- Small stoops centered on entry and no more than 5 feet deep are appropriate on blocks where porches were not traditional.

### 6. Windows and Doors

- When constructing new houses, the window and door styles should be similar to the original or historic houses on the block.
- To respect the privacy of adjacent properties, consider the placement of side windows and doors.
- The windows and doors on the front facade of an infill house should be located in similar proportion and position as the original houses on the block.
- Attention should be paid to window placement and the ratio of solid (the wall) to void (the window and door openings).
- Contemporary windows such as "picture windows" should not be used in pre-World War II neighborhoods.

### 7. Roof Shapes and Materials

- New roofs should be designed to have a similar pitch to original housing on the block
- More complex roofs, such as hipped roofs and dormers, should be part of new housing designs when such forms were historically used on the block.
- Darker shades of shingle were often used and should be chosen in roofing houses in Heart of Knoxville neighborhoods.

### 8. Siding Material

- Clapboard-like materials (such as cement fiberboard) should be used in constructing new housing where painted wood siding was traditionally used.
- Brick, wood shingle, and other less common material may be appropriate in some older neighborhoods, particularly those with a mix of architectural styles.

- Faced stone, vertical siding, and other non-historic materials should not be used in building new houses. In 1930-1950 era neighborhoods, faced stone may be appropriate (see Section 12).

#### 11. Landscape and Other Considerations

- One native or naturalized shade tree should be planted in the front and rear yards of in fill lots with 25 feet or more in depth to front of house.

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### Comments

1. The house is proposed to be set 25' from the front property line. The block to receive new construction is relatively undeveloped; however, the existing houses on the block are set 15' and 18' from the front property line. The revised proposal has been aligned to align the four new houses on the block.
2. The block to receive new construction is characterized by modified Craftsman bungalows and is primarily vacant. The proposed one-story residence is proportional to the dimensions of the lot and the other houses on the block. The site plan features large side setbacks.
3. The application proposes a concrete driveway in the front of the house. Infill Housing guidelines recommend that on streets without alleys, parking areas should be at least 20' behind the front façade of the house with access limited to one lane between the street and the front façade. The turnaround may be required based on the site's topography and the conditions of Gap Road, but should be omitted if possible. Final site plans should meet City Engineering standards.
4. Overall, the one-story, three-bay façade is similar in scale and width to the context. The house is proposed for a concrete slab foundation; the foundation should be at least 12" tall to be compatible with the broader neighborhood. Topography of the site may also affect the house's foundation; the drawings depict a concrete slab.
5. The revised application includes a 4'-5" deep entry stoop on the site plan and an 8' deep front porch on the floor plans. While an 8' deep porch meets the guidelines, the final site plan should include an accurate porch measurement.
6. Guidelines recommend window and door styles be similar, with similar proportions and ratio of solid to void, to historic houses on the block and in the neighborhood. The revised application includes two windows on the left elevation and three on the right elevation.
7. The proposed roof pitch (7/12) meets the design guidelines.
8. The application does not include information on siding materials. Guidelines recommend that clapboard-like materials be used in new houses and discourages vertical siding; the houses should feature horizontal lap siding instead of board-and-batten. Final drawings should accurately show the siding to be installed.
9. Final site plans should include one native or naturalized shade tree in the front and rear yards. The lots currently feature a substantial amount of trees and other vegetation; existing trees should be retained if at all possible.
10. The proposed new construction should be differentiated in design from the three other new houses proposed on Gap Road at the same time. Design tactics can include roofline modifications, different porch designs, or other methods. In response to the previous staff report and DRB decision (which was to postpone to allow the applicant to present revised drawings), the applicant has stated they will vary the houses via siding color and porch railings. The porch details are not shown on the drawings.

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### Recommendation

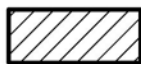
Staff recommends approval of Certificate 5-E-24-IH, subject to the following conditions:

- 1) final site plan to meet City Engineering standards, omitting front yard turnaround if possible;
- 2) foundation to be elevated at least 12 inches to reflect historic houses in the neighborhood, with a site-specific foundation profile submitted to staff;
- 3) revised front porch design to measure at least 8 feet deep;
- 4) siding to be horizontal lap siding instead of board-and-batten;
- 5) design be revised to differentiate from other adjacent new construction on Gap Road, with approval by staff



**5-E-24-IH**

**APPLICATION FOR CERTIFICATE OF APPROPRIATENESS**

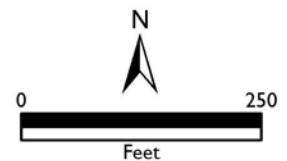


**3500 Gap Rd.**  
Lonsdale Infill Housing Overlay District

Original Print Date: 5/6/2024  
Revised:  
Knoxville/Knox County Planning - Infill Housing Design Review Committee

Applicant: Dawn Iron Beit Development LLC

**INFILL  
HOUSING  
REVIEW  
BOARD**



NOTES

1. SURVEYOR'S LIABILITY FOR THE DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITIES WITHOUT AN EXPRESSED RE-CERTIFICATION BY WHOSE SIGNATURE APPEARS UPON THE SURVEY.
2. PARCELS NUMBERS SHOWN AS THIS (00) REFER TO TAX MAP 81, INSERT 1, GROUP 5, KNOX COUNTY, TN.
3. ALL DISTANCES WERE MEASURED WITH E.D.M. EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.
- 3.1. FOR BOUNDARY AND TOPOGRAPHIC ASPECTS OF THIS SURVEY, RTK GROSS POSITIONAL DATA WAS OBTAINED USING A TRIMBLE R1200 RTK STATIONING TOTAL STATION, A TRIMBLE R1200 RTK ROBOTIC TOTAL STATION, AND A TRIMBLE R1200 RTK ROBOTIC TOTAL STATION. THE NETWORK OF TDOOT CORS STATIONS REFERENCED TO NAD83(2011), GRID 18, TO BE IN ZONE "X" AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM PANEL NUMBER 470930277G, DATED 08/05/2013.
4. THE PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD PLAIN AND IS DETERMINED TO BE IN ZONE "X" AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM PANEL NUMBER 470930277G, DATED 08/05/2013.
5. SURFACE DRAINAGE SHALL BE DIVERGED TO A STORM SEWER CONFORMANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM THE FOUNDATION WALLS. THE GRADE SHALL FALL NO FURTHER THAN 6 INCHES WITHIN THE FIRST 10 FEET.
6. THIS SURVEYOR WAS NOT PROVIDED WITH A TITLE COMMITMENT, THEREFORE THE PROPERTY IS SUBJECT TO THE FINDINGS OF A DETAILED TITLE SEARCH.
7. PRIOR TO ANY CONSTRUCTION, EXCAVATION OR ANY DISTURBANCE OF THE EXISTING GROUND ELEVATION, THE OWNER AND / OR CONTRACTOR SHOULD ASSUME RESPONSIBILITY OF CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATION OF UNDERGROUND GAS LINES, TELEPHONE LINES, ELECTRIC CABLES, WATER LINES, ETC. TO AVOID ANY HAZARD OR CONFLICT. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR EXCAVATION TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. DIAL 811 FOR A ONE CALL CENTER.
8. UTILITIES SHOWN WERE TAKEN FROM FIELD LOCATIONS THAT WERE APPARENT AND CORDED FROM APPROPRIATE GOVERNING AGENCIES MAPS AND ARE APPROXIMATE AT BEST. THERE MAY BE UTILITIES, THE EXISTENCE OF WHICH IS UNKNOWN TO THE SURVEYOR.
9. TOPOGRAPHIC INFORMATION WAS DERIVED BY RANDOM SHOTS PER FIELD SURVEY AND AVAILABLE TN STATE LIDAR DATA. CONTOUR INTERVAL IS TWO (2) FEET. DATUM BASED ON NAVD 88.
10. ALL DEED & PLAT REFERENCES ARE MADE TO THE REGISTER'S OFFICE OF KNOX COUNTY, TN (KNOX).
- 10.1. SURVEY FIELD DATA COLLECTED ON NOVEMBER 3, 2023.
11. PROPOSED AREA TO CLEAR 2,520 SQ. FT. ±.
12. SUBJECT PROPERTY IS CURRENTLY ZONED "RN-2": SINGLE-FAMILY RESIDENTIAL NEIGHBORHOOD AND "HP": HILLSIDE PROTECTION OVERLAY. FOR ACCURATE INFORMATION CONCERNING ZONING REQUIREMENTS & RESTRICTIONS CONTACT KNOXVILLE/KNOX COUNTY PLANNING SERVICES: 865-215-2500.

LEGEND

- PARCEL NO. (X)
- PUBLIC UTILITY & DRAINAGE EASEMENT PLUDE
- IRON ROD CAPPED (NEW) S&P IRON NAILS SURV & MARK
- CONTOUR LINE 1000'
- PROPERTY ADJACENT LINE
- PROPERTY LINE
- FENCE LINE X
- OVERHEAD POWER LINE OH L
- ELECTRIC METER
- UTILITY POLE
- WATER METER

ZONING RESTRICTIONS

ZONING: RN-2: SINGLE FAMILY RESIDENTIAL NEIGHBORHOOD

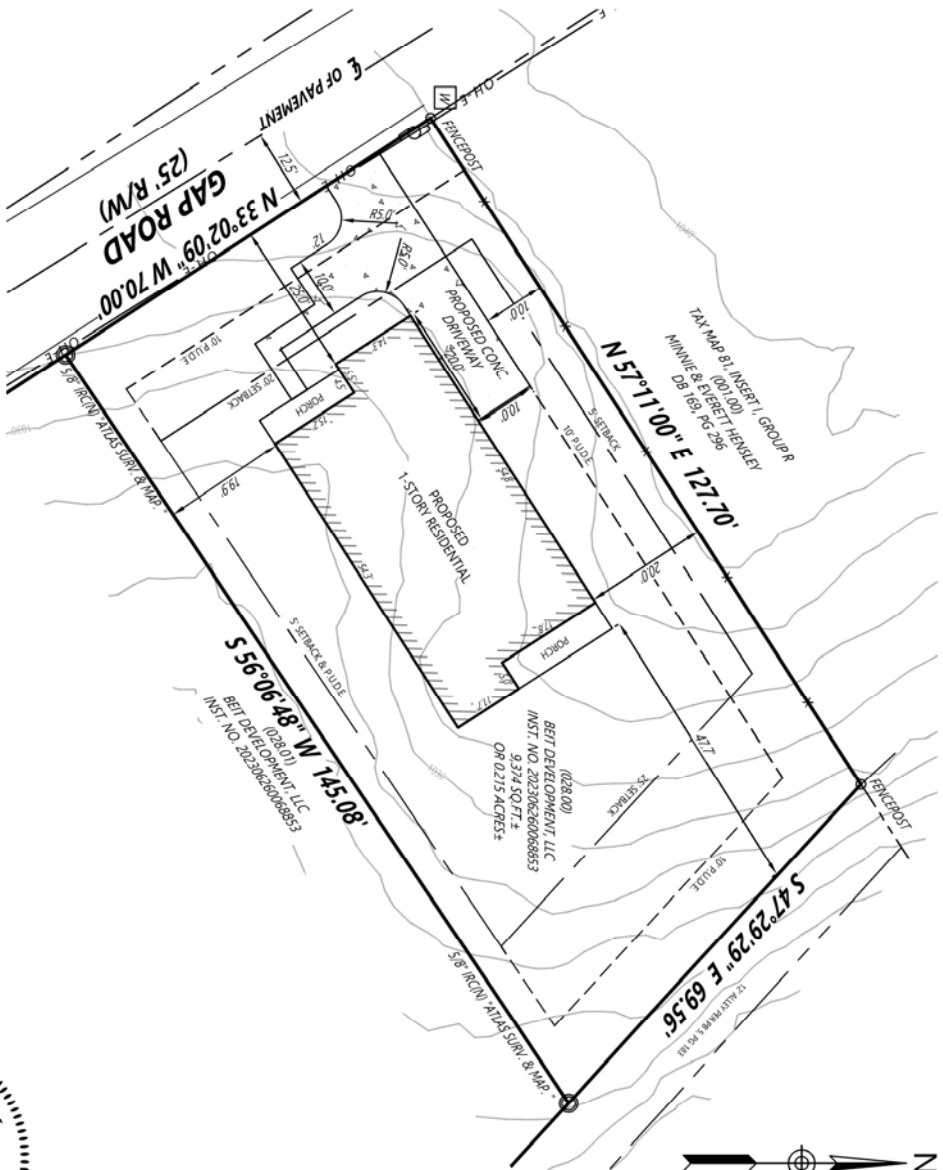
FRONT YARD SETBACKS: 20 FEET

SIDE YARD SETBACKS: 5 FEET

REAR YARD SETBACKS: 25 FEET

MIN. LOT AREA: 5,000 SQ. FEET

MAX. BUILDING HEIGHT: 35 FEET



SURVEYOR'S CERTIFICATE

I hereby certify that to the best of my knowledge and belief the herein shown Boundary & Topographic Survey represents a Category "IV" survey and as shown hereon and that the survey has been performed to the minimum standards for Land Surveying in the State of Tennessee.

By: *Leah M. Metcalf* Date: 07/05/2024

LEAH M. METCALF, TN Registered Surveyor No. 3430



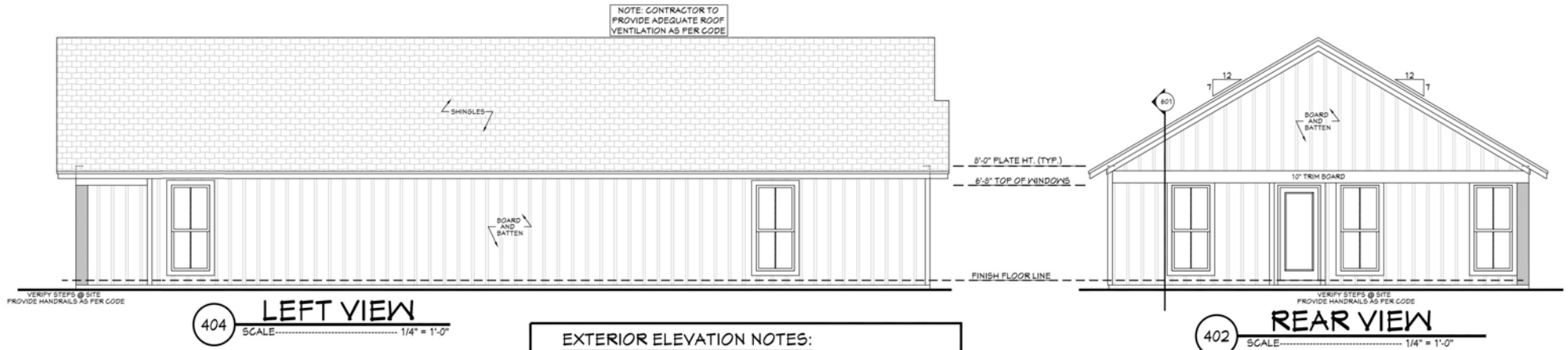
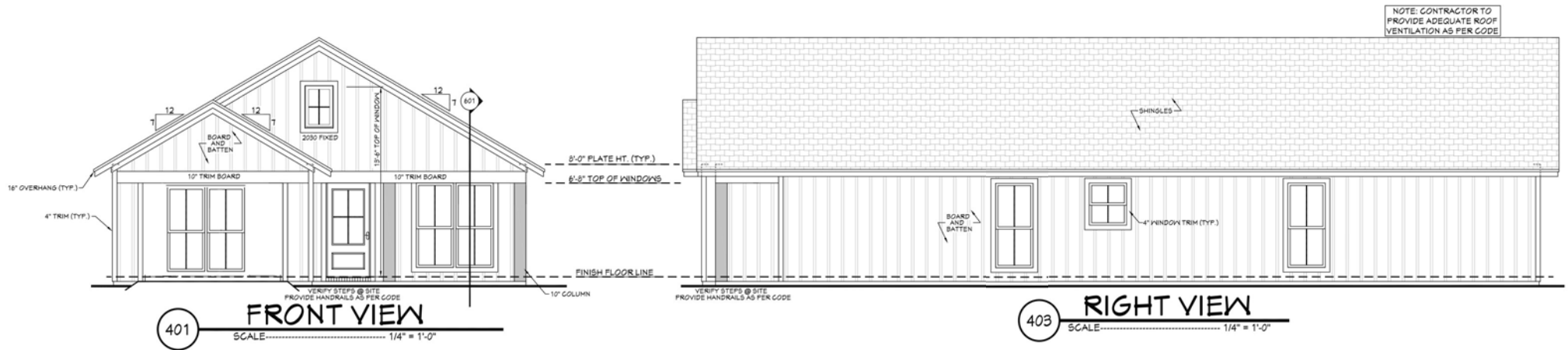
SITE PLAN

3500 GAP ROAD  
KNOXVILLE, KNOX COUNTY, TN  
CIVIL DISTRICT 12TH, 19TH WARD, CITY BLOCK 19100  
TAX MAP 81, INSERT 1, GROUP 5, PARCEL 028.00

NO.	DATE	DESCRIPTION	BY
1	07/05/2024	DRIVEWAY REVISION	LMH
2	04/19/2024	DRIVEWAY REVISION	LMH
3	12/06/2023	FINAL ISSUE	LMH

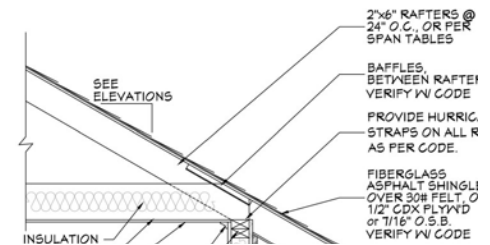
BEIT DEVELOPMENT, LLC  
800 S GAY ST, SUITE 700  
KNOXVILLE, TN 37929





#### EXTERIOR ELEVATION NOTES:

1. CONTRACTOR TO VERIFY ALL WINDOW AND DOOR STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION.
2. PROVIDE STEPS AND GUARD RAILS AS PER CODE BASED ON SITE CONDITIONS.
3. GROUND LINES SHOWN FOR REFERENCE ONLY AND VARY DEPENDING ON SITE CONDITIONS.
4. ALL FINISH MATERIALS TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
5. REFER TO TYPICAL WALL DETAIL FOR FRAMING METHODS AND OTHER MISC. INFORMATION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.









5-E-24-IH

Please see our responses underlined below

Staff recommends approval of Certificate 5-E-24-IH, subject to the following conditions:

1) revisions to the front setback to align with adjacent new construction and create a consistent streetscape pattern;

Front set back for each home will be normalized to create a consistent streetscape pattern.

2) revisions to parking placement to meet the Infill Housing guidelines;

Parking / driveway will be altered to meet guidelines

3) foundation to be elevated at least 12 inches to reflect historic houses in the neighborhood, with a revised foundation profile submitted to staff;

Foundation plan (below) does not specify a total height. Crawl space will exceed the 12 inch requirement

4) revised front porch design to measure at least 8 feet deep;

Revised plan emailed in separately to Lindsay Crockett

5) one window each to be added to right and left elevations;

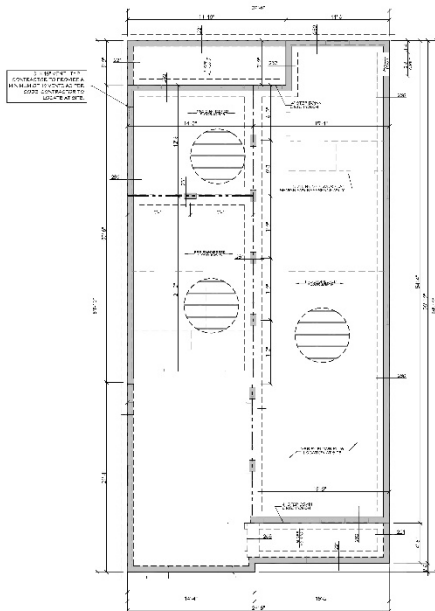
Revised plan emailed in separately to Lindsay Crockett

6) siding to be horizontal lap siding instead of board-and-batten;

Siding will be horizontal lap siding

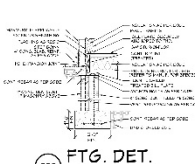
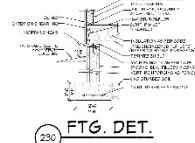
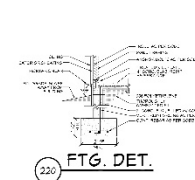
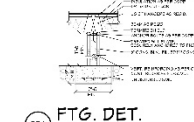
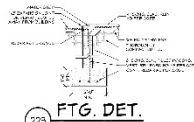
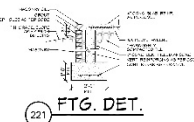
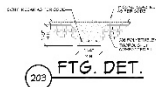
7) design be revised to differentiate from other adjacent new construction on Gap Road, with approval by staff.

Exterior features will differ in siding color & porch railing and post types from adjacent homes



201 FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"

NOTE: PRE-ENGINEERED FLOOR JOISTS ARE SHOWN. REFER TO FLOOR JOIST MANUFACTURER FOR JOIST SIZING, SPACING, CROSS BRACING REQUIREMENTS, AND BEAM SIZES.



**GRAVELSPACE FOUNDATION NOTES:**

1. ALL FOOTING SIZES AND LOCATIONS TO BE VERIFIED BY A LICENSED STRUCTURAL ENGINEER.
2. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH FLOOR PLAN, PRIOR TO CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS.
4. CONTRACTOR TO PROVIDE WATERPROOFING AS REQUIRED TO MEET ALL APPLICABLE CODES AND TYPICAL BUILDING PRACTICES.
5. CONCRETE SLABS TO BE 3" (3000 PSI MIN.), REINFORCED AS PER CODE OR AS DETERMINED BY LICENSED ENGINEER.
6. CONTRACTOR TO PROVIDE ADEQUATE DRAINAGE BASED ON EXISTING SITE CONDITIONS. VERIFY ALL LOCAL CODES.
7. REFER TO FLOOR JOIST MANUFACTURER FOR JOIST SIZING AND SPACING, CROSS BRACING REQUIREMENTS, AND BEAM SIZES.
8. VERIFY THE QUANTITY AND LOCATION OF BRICK VENTS WITH ALL APPLICABLE CODES AT SITE.

**House Plan Zone**  
Building the Future

Website: [www.HPZplans.com](http://www.HPZplans.com)  
Email: [sales@hpzplans.com](mailto:sales@hpzplans.com)  
Phone: 801.336.3254  
Fax: 1.800.516.1301

**N.C.B.D.C.**

Pre-Drawn Plan ID: **BB-1292**

DATE: 10/07/19  
DRAWN BY: RBN

SHEET NUMBER **2**