

**LOCAL HISTORIC DISTRICT:** Plaza Midwood

**PROPERTY ADDRESS:** 1465 Haywood Court

**SUMMARY OF REQUEST:** New Construction

**APPLICANT:** Tim McCollum (Ed Heiser, Owner)

The application for new construction on this property was denied in August, 12 2015. The basis for denial were Size, Scale and Massing. The applicant has submitted a new application for review. The Commission will determine if the project has been substantially redesigned and now meets the guidelines for new construction. The applicant has also added new drawings to reflect changes from the previous application.

#### **Details of Proposed Request**

##### *Existing Conditions*

The existing site is a large vacant parcel and the end of Haywood Court and the edge of the Plaza Midwood Historic District. The front of the lot is angled and the width is approximately 87'-6". The four adjacent structures on the street are one and, one and one half single family homes. Across the street is a large vacant tract and the rear yards of two single family homes. The grade drops from the front to back and from right to left.

##### *Proposal*

The proposal is a new two story single family house and detached garage. Features of the house include a full width front porch, wood and cedar shake siding, wood trim details, brick foundation and clad STDL windows.

Summary of revisions include the following:

- Elevation drawings that show the change in grade.
- Front setback has been reduced.
- Increase in rear yard area.
- Reduction in height from 24 feet to 23'.
- The width has been reduced from +/- 58 feet to +/- 56 feet.
- The front porch and overall footprint of the house has been reduced.
- The right side elevation includes an additional window toward the front and full double hung windows on the second story.
- Reduction of the garage to one story.

#### **Policy & Design Guidelines for New Construction**

New construction in Local Historic Districts has an obligation to blend in with the historic character and scale of the Local Historic District in which it is located. Designs for infill projects and other new construction within designated Local Historic Districts must be designed with the surroundings in mind. The Historic District Commission will not specify a particular architectural style or design for new construction projects. The scale, mass and size of a building are often far more important than the decorative details applied. However, well designed stylistic and decorative elements, as well as building materials and landscaping, can give new construction projects the attributes necessary to blend in with the district, while creating a distinctive character for the building. New construction projects in Local Historic Districts must be appropriate to their surroundings.

The Historic District Commission will review the building details for all new construction as part of their evaluation of new construction project proposals.

<i>All New Construction Projects Will Be Evaluated For Compatibility By The Following Criteria</i>	
1. <b>Size</b>	<i>the relationship of the project to its site</i>
2. <b>Scale</b>	<i>the relationship of the building to those around it</i>
3. <b>Massing</b>	<i>the relationship of the building's various parts to each other</i>
4. <b>Fenestration</b>	<i>the placement, style and materials of windows and doors</i>
5. <b>Rhythm</b>	<i>the relationship of fenestration, recesses and projections</i>
6. <b>Setback</b>	<i>in relation to setback of immediate surroundings</i>
7. <b>Materials</b>	<i>proper historic materials or approved substitutes</i>
8. <b>Context</b>	<i>the overall relationship of the project to its surroundings</i>
9. <b>Landscaping</b>	<i>as a tool to soften and blend the project with the district</i>

#### Staff Analysis

The Commission will determine if the proposal meets the guidelines for new construction.

## McCollum Residence Historic District Commission Second Submittal

### Summary page

The following is the updated plans for the house at 1465 Haywood Ct. The updated plans have reduced the size of the house vertically and horizontally from the last submission. The changes were made to reduce the width of the house at the street with the goal of maintaining the design characteristics that make this house a remarkable addition to the historic district. Overall, we reduced the area under roof by ~908sf or approximately 17% from the last submittal.

#### WIDTH

We adjusted the overall width inside the home by 2' from 58' 2" to 56' 2" and we reduced the width of the front porch by removing the wrap around porch elements to decrease the presence of the house on the street to give the house a smaller look from the street. We removed ~16' of front porch width off the house which reduces the street level presence of the house and makes the house appear skinnier. We also added shake to the mud room/pantry on the left side of the house to visually break up the front of the house to articulate that space on the side from the front of the house, further reducing the visual width of the house. The overall lot is ~87' 6" wide so relative to the lot, the house is using 64% of width of the lot. The three neighboring houses on the street use 43%, 89%, 54% as you head towards Thomas Ave. The average width of the lot used by the houses on the street is 62% so our house uses the average width of land used by the neighboring properties.

#### HEIGHT

We decreased the height of the house from the first floor to the ridge line from 24' 1" down to 23' by reducing the ceiling height on the first level down to 9'. The next door neighbors house is 22' 8.4" so in absolute size we are ~3.6" taller. We have integrated the topo into the plans to show that our house's ridge-line is lower than the houses next to it in spite of the slight disparity in height.

#### MASSING

We adjusted the right side (east facade) of the house by reconfiguring the bathroom and closets to provide larger windows. We also added a transom into the master closet and although the window in the side of the closet reduces our storage space, we believe this can address the comments of our neighbor by creating a more detailed facade.

#### GARAGE

We eliminated the second level of the garage. If future space is needed, we will pursue a new application after the house is built.

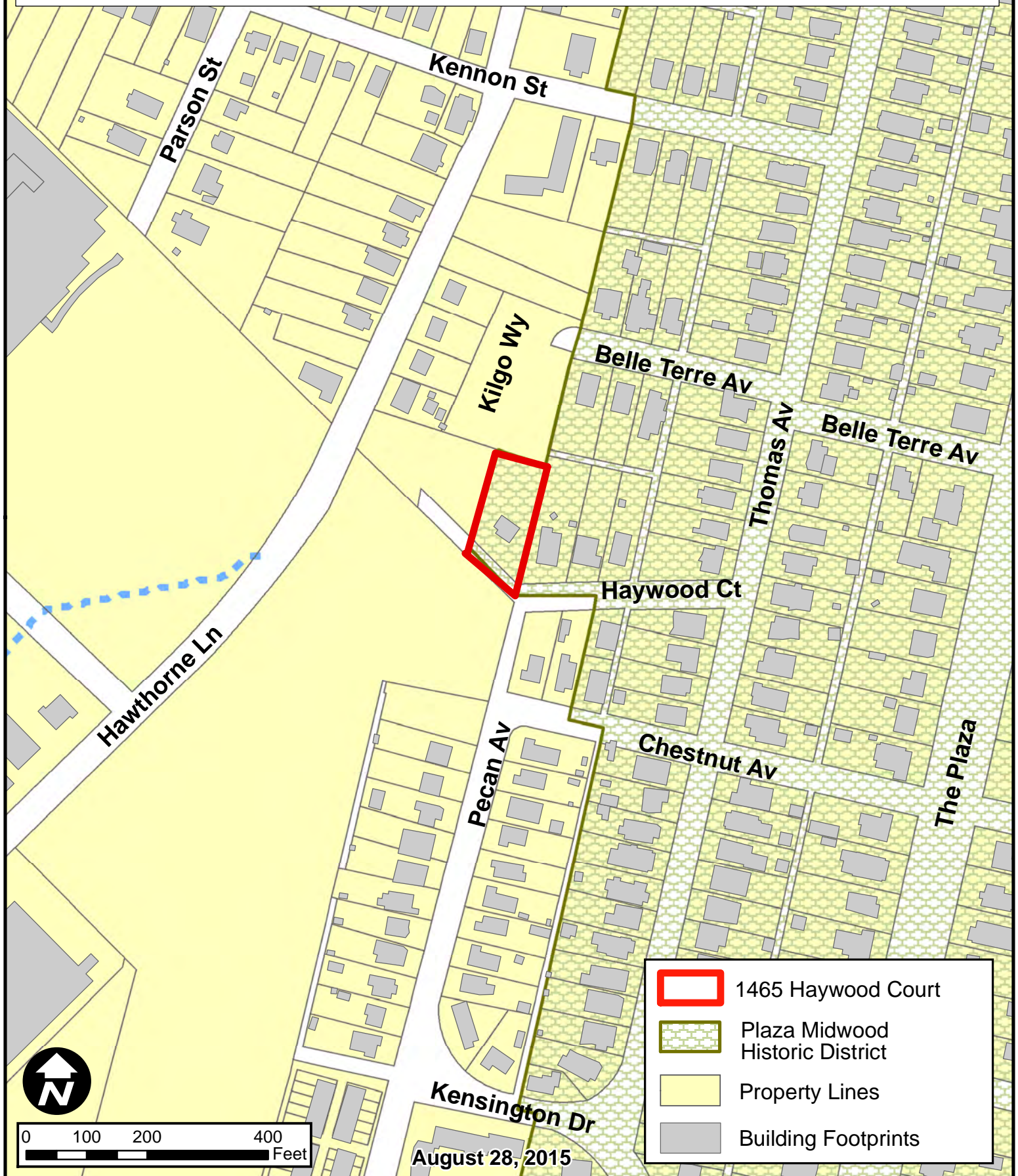
#### LOT

In reducing the width of the front porch, we were able to move the house forward on the lot to better align with the existing houses on the street.

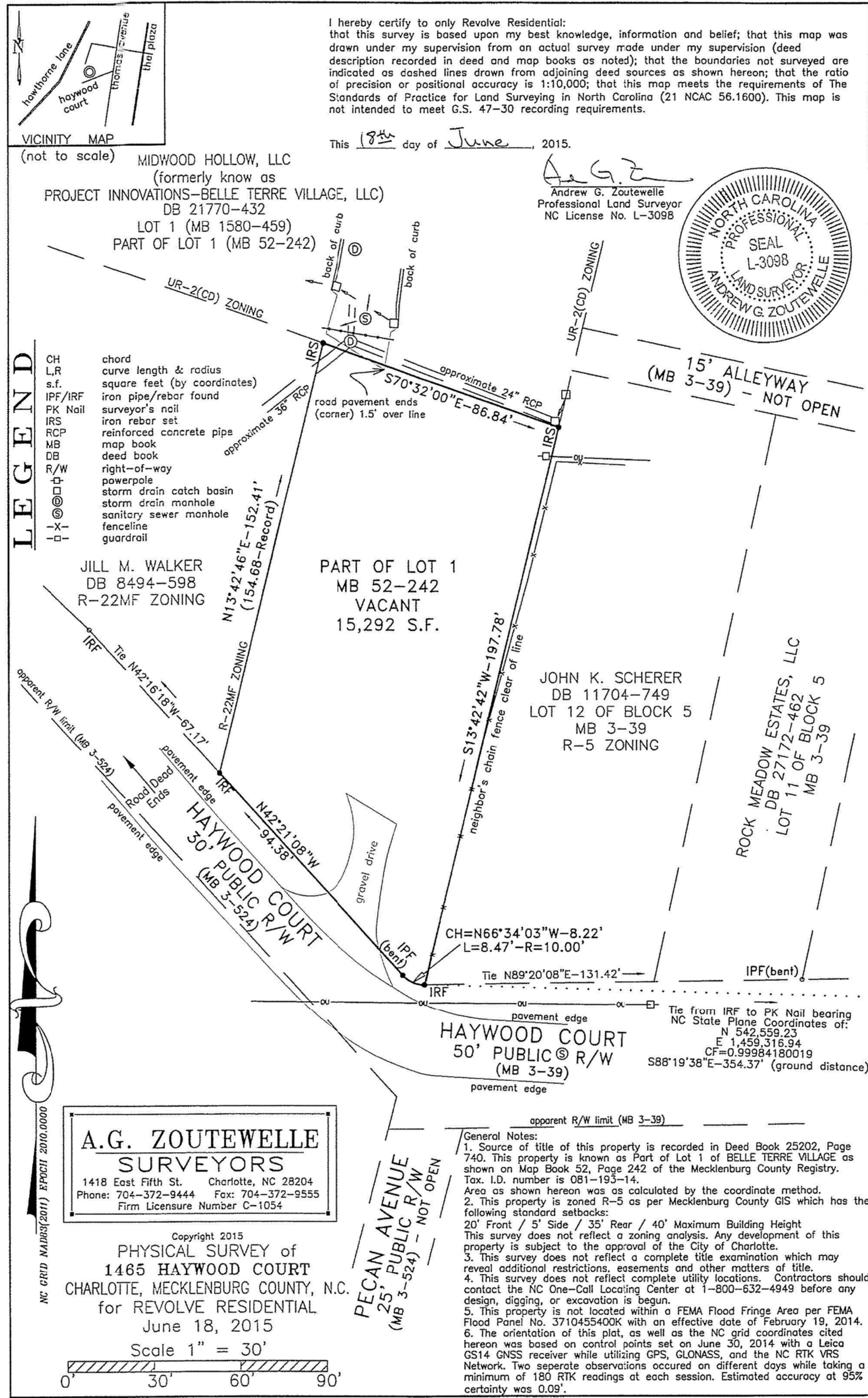


# *Charlotte Historic District Commission - Case 2015-211*

## *Historic District: Plaza Midwood*







1A 1465 Haywood Ct Survey  
1" = 30'-0"



1501 HAYWOOD COURT



1507 HAYWOOD COURT



1511 HAYWOOD COURT



1508 HAYWOOD COURT



1815 THOMAS AVENUE



1823 THOMAS AVENUE



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**McCollum Residence**

**PROJECT**  
1465 Haywood Court  
Charlotte, NC 28205



**OWNER**

**REVOLVE RESIDENTIAL**  
Revolve Residential  
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tim@revolveresidential.com

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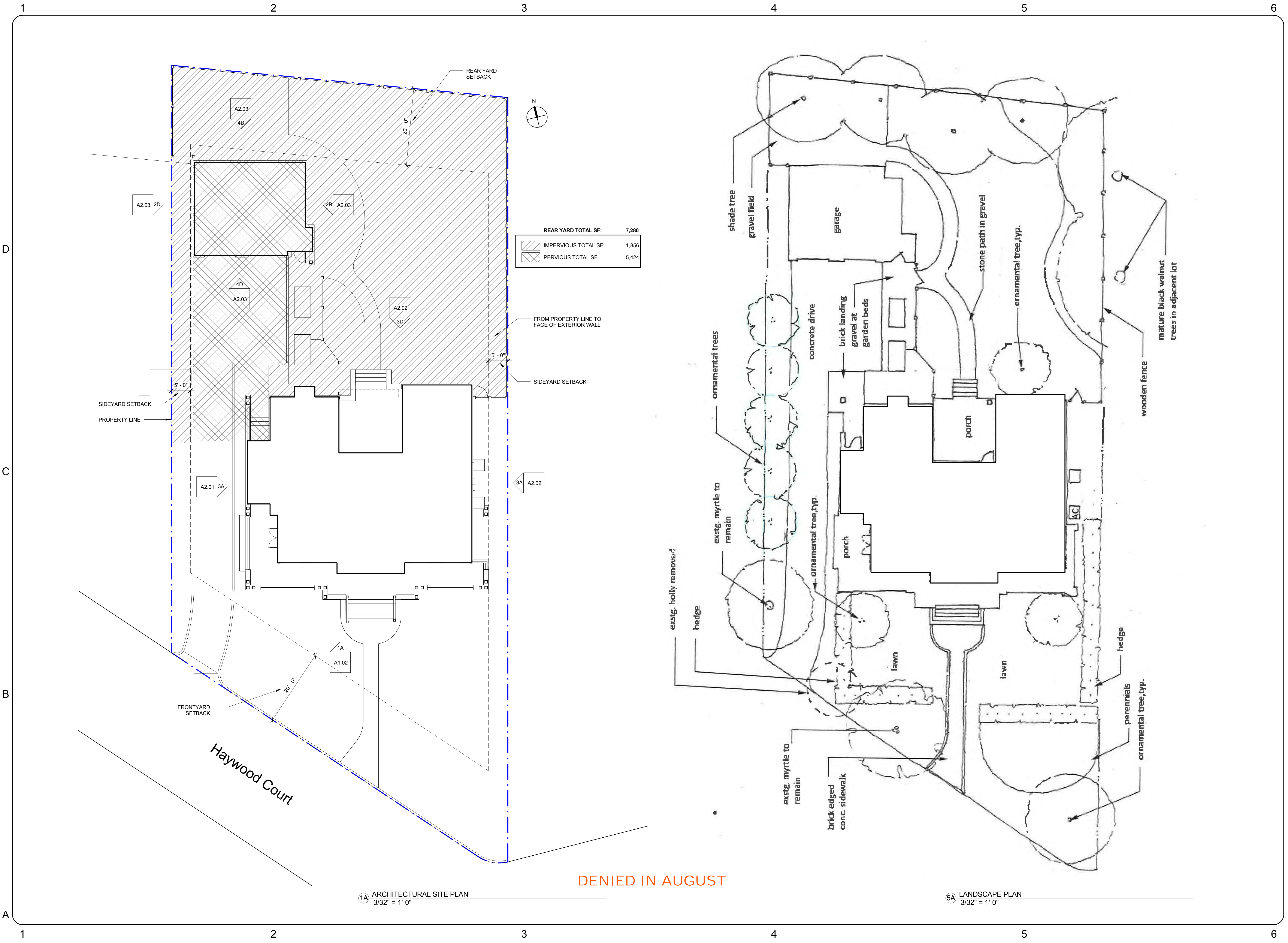
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10/14/15

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NO.	DESCRIPTION	DATE

**SITE SURVEY AND STREETSCAPE IMAGES**





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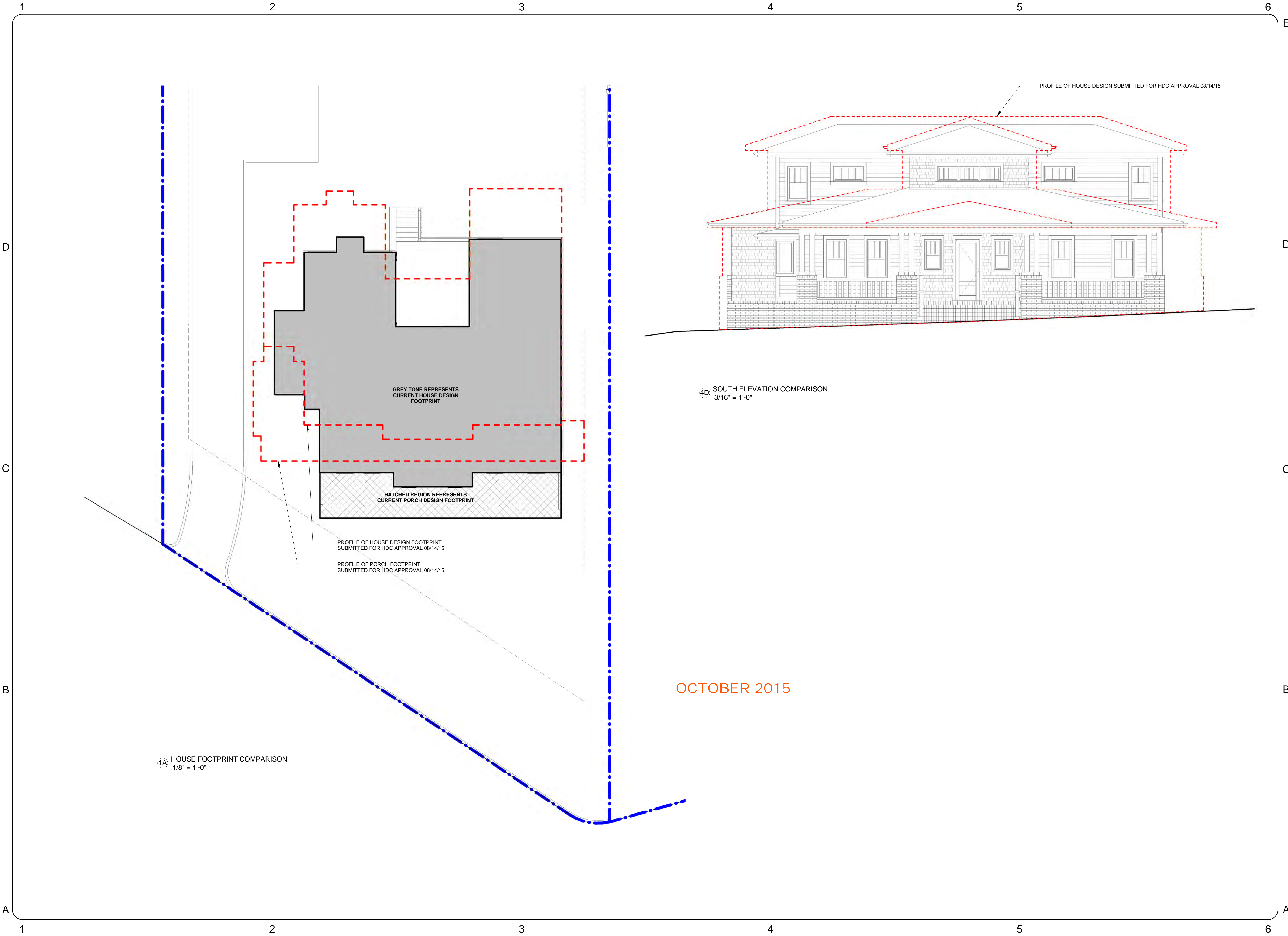
## SITE PLANS

# A1.03









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**FLOOR PLAN COMPARISON**



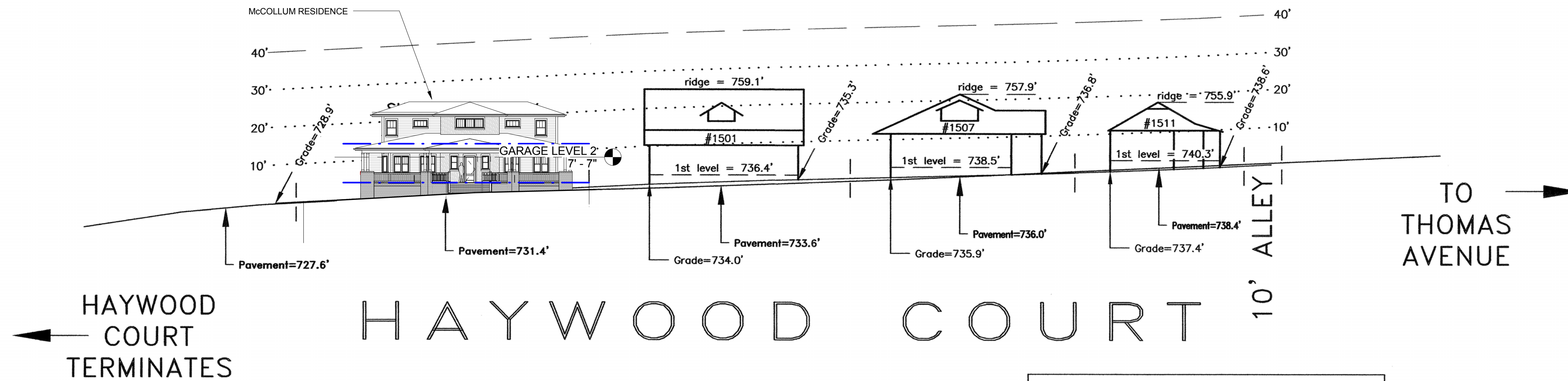
DENIED IN AUGUST

I hereby certify that this schematic drawing was prepared based on field-surveyed elevation measurements of the points shown hereon. This map is not intended to meet G.S. 47-30 recording requirements.

This 8<sup>th</sup> day of July, 2014.

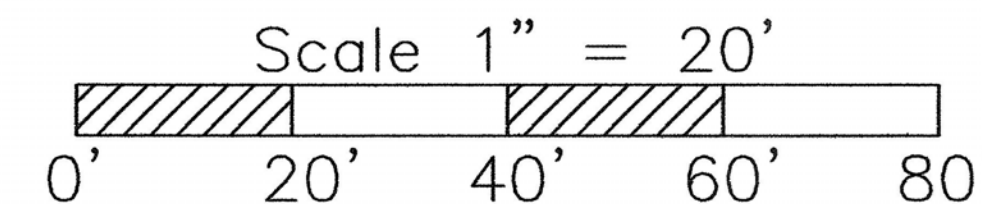


Andrew G. Zoutewelle  
Professional Land Surveyor  
NC License No. L-3098



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**SURVEYORS**  
1418 East Fifth St. Charlotte, NC 28204  
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Firm Licensure Number C-1054

Copyright 2014  
Building Heights Sketch of  
**1465-1511 HAYWOOD COURT**  
**FACING NORTH**  
CHARLOTTE, MECKLENBURG COUNTY, N.C.  
for Charlotte-Mecklenburg Planning Department  
July 08, 2014



General Notes:  
1. The purpose of this Building Heights Sketch is to show existing building facade heights relative to the elevation points at the public sidewalk, front yard grade ("Grade"), 1st level, and ridgeline of the houses depicted hereon. No rear yard or side yard measurements were made. The heights shown hereon were derived from indirect measurements and are not intended for structural design.  
2. The vertical datum for these elevation measurements is the North American Vertical Datum of 1988 (i.e., sea level). All other information and graphics are conceptual in nature and are not intended to represent accurate architectural or landscape features.

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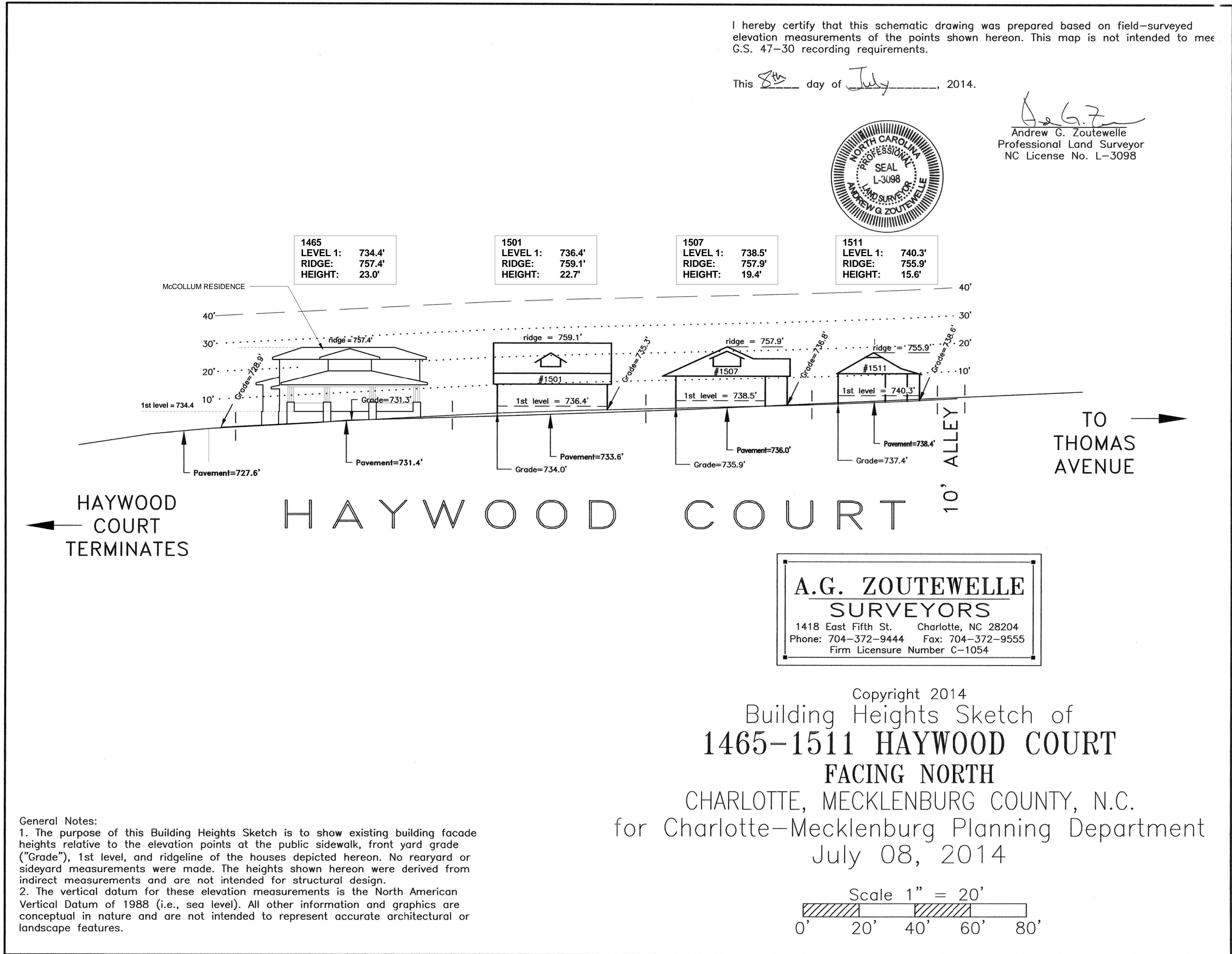
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#### STREETSCAPE ELEVATION SURVEY

**A1.02**



OCTOBER 2015



1A STREETScape ELEVATION SURVEY  
1" = 20'-0"

Z:\2014DWG\ZAC\HAYWOOD COURT 1465-1511\DWG\HAYWOOD COURT 1465-1511

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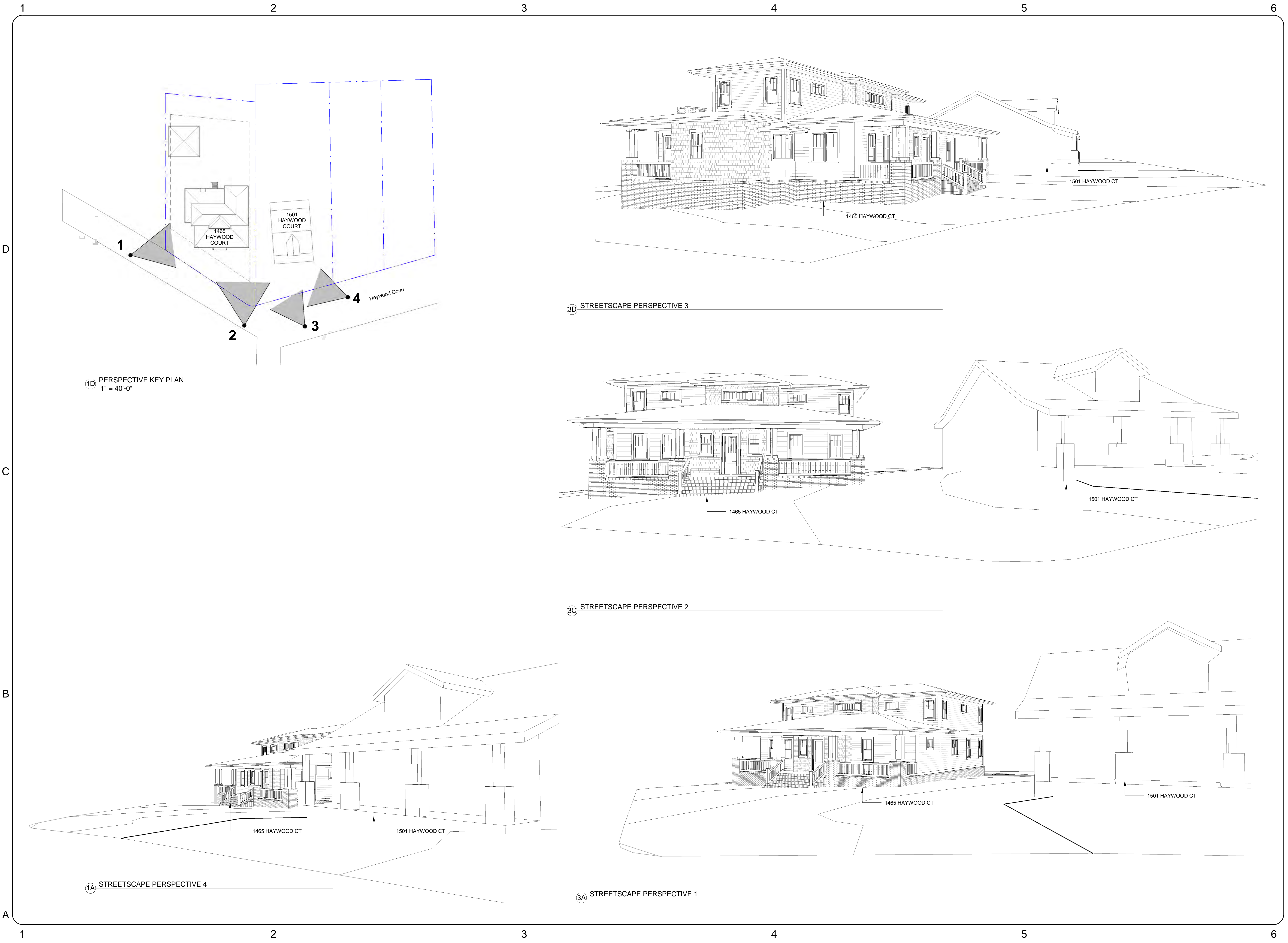
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## STREETSCAPE ELEVATION SURVEY

**A1.04**





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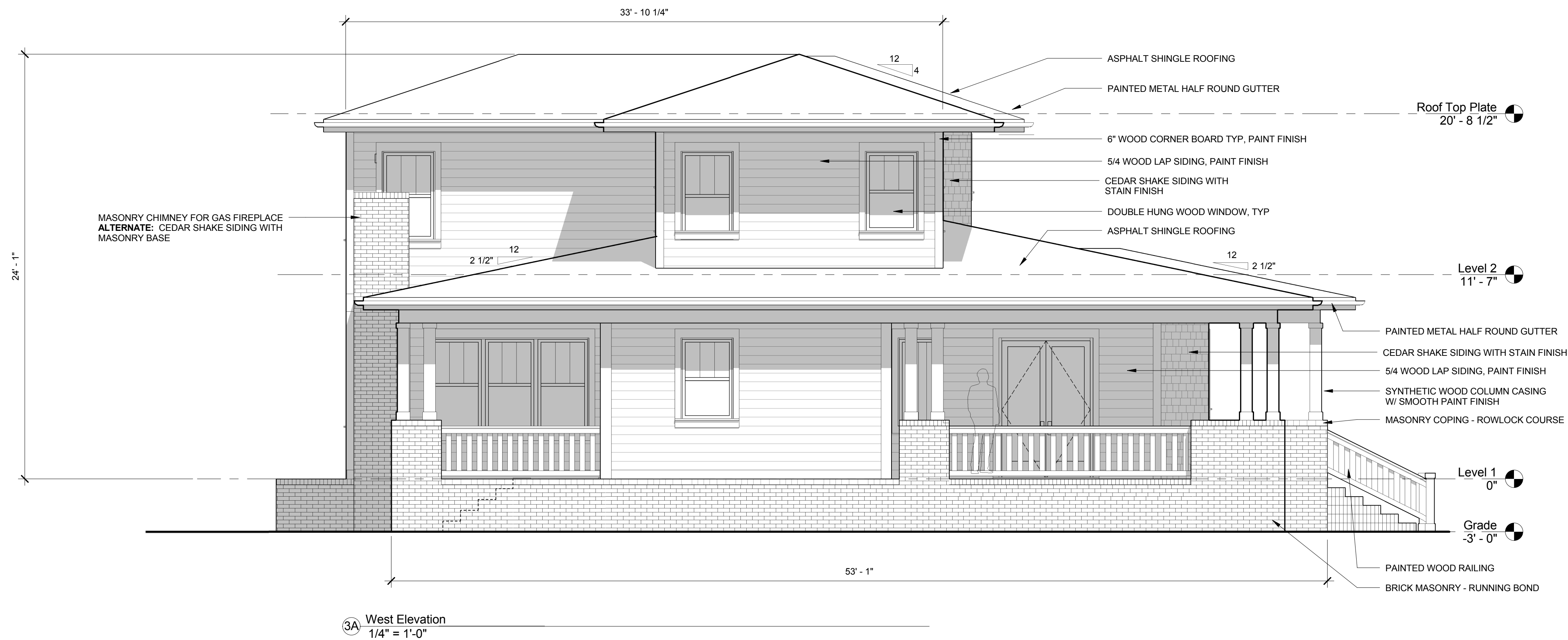
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## STREETSCAPE PERSPECTIVES



DENIED AUGUST



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## HOUSE ELEVATIONS

A2.01



OCTOBEWR 2015

D



1C EXTERIOR PERSPECTIVE

C



1B EXTERIOR PERSPECTIVE

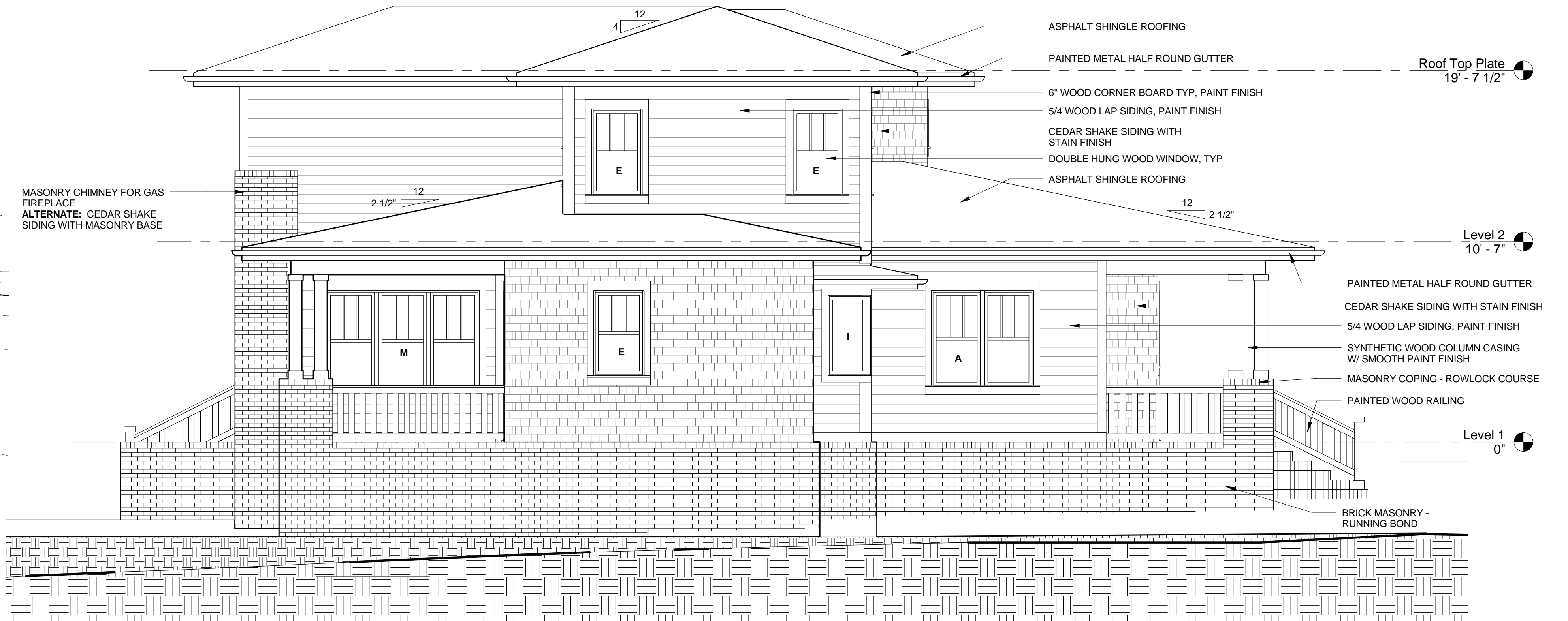
A



3D South Elevation  
1/4" = 1'-0"

WINDOW SCHEDULE

TYPE	DIMENSIONS	OPERATION
A	(2) 5'-0" X 2'-6"	DOUBLE HUNG
B	(2) 5'-0" X 2'-6" + 5'-0" X 2'-6"	CASEMENT + FIXED (MIDDLE PANEL)
C	5'-0" X 2'-6"	DOUBLE HUNG
D	4'-0" X 2'-0"	DOUBLE HUNG
E	4'-6" X 2'-6"	DOUBLE HUNG
F	4'-0" X 2'-6"	DOUBLE HUNG
G	2'-0" X 4'-0"	FIXED
H	(3) 2'-0" X 2'-8"	FIXED
I	4'-0" X 2'-0"	CASEMENT
J	(2) 4'-0" X 2'-0"	DOUBLE HUNG
K	2'-0" X 3'-0"	FIXED
L	(2) 5'-0" X 2'-0"	DOUBLE HUNG
M	(3) 5'-0" X 2'-6"	DOUBLE HUNG



3A West Elevation  
1/4" = 1'-0"

E



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D



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C

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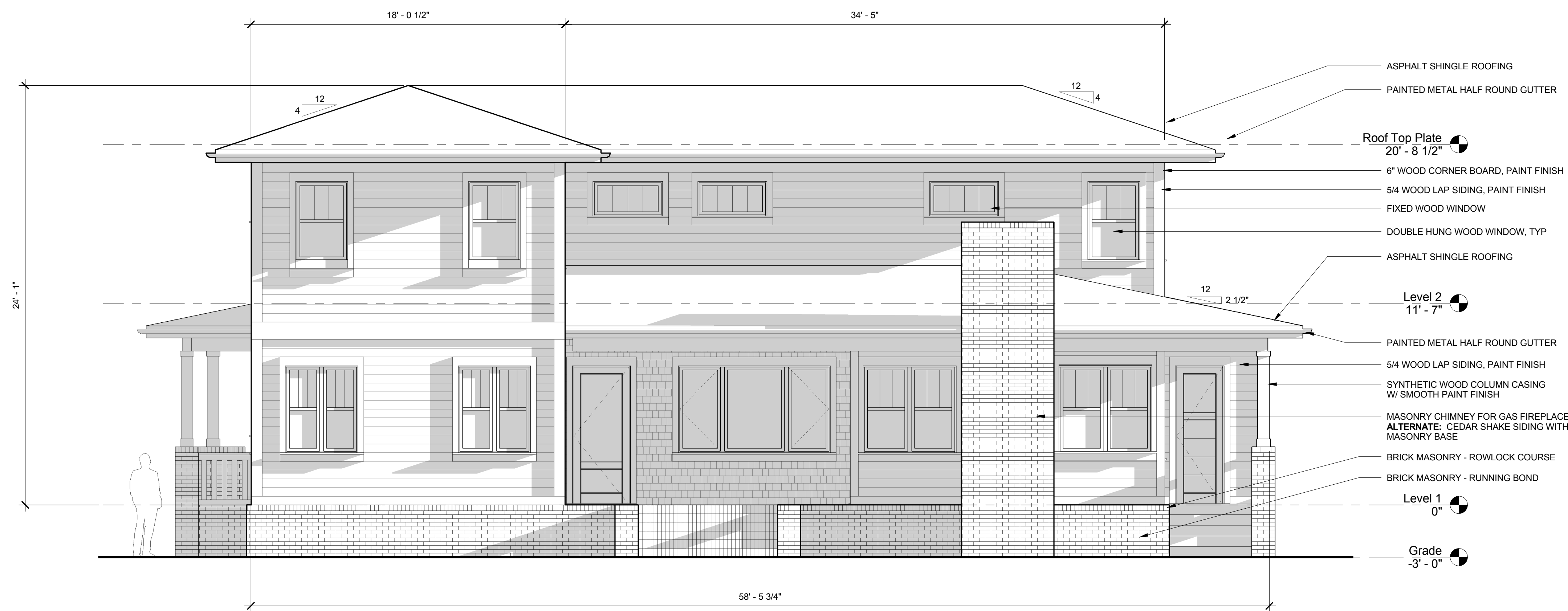
B

**HOUSE ELEVATIONS**

**A2.01**



DENIED AUGUST



3D North Elevation  
1/4" = 1'-0"



3A East Elevation  
1/4" = 1'-0"



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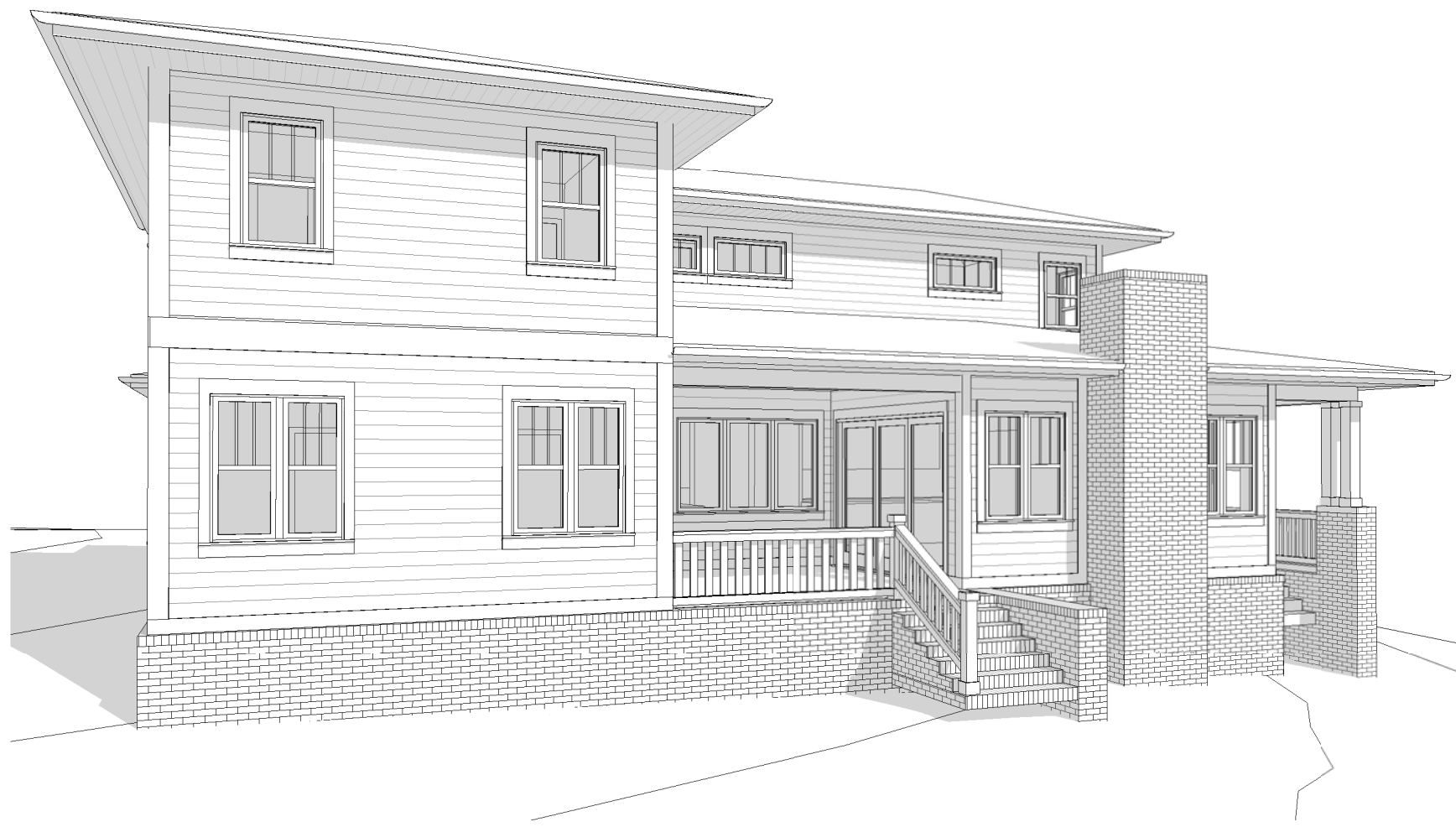
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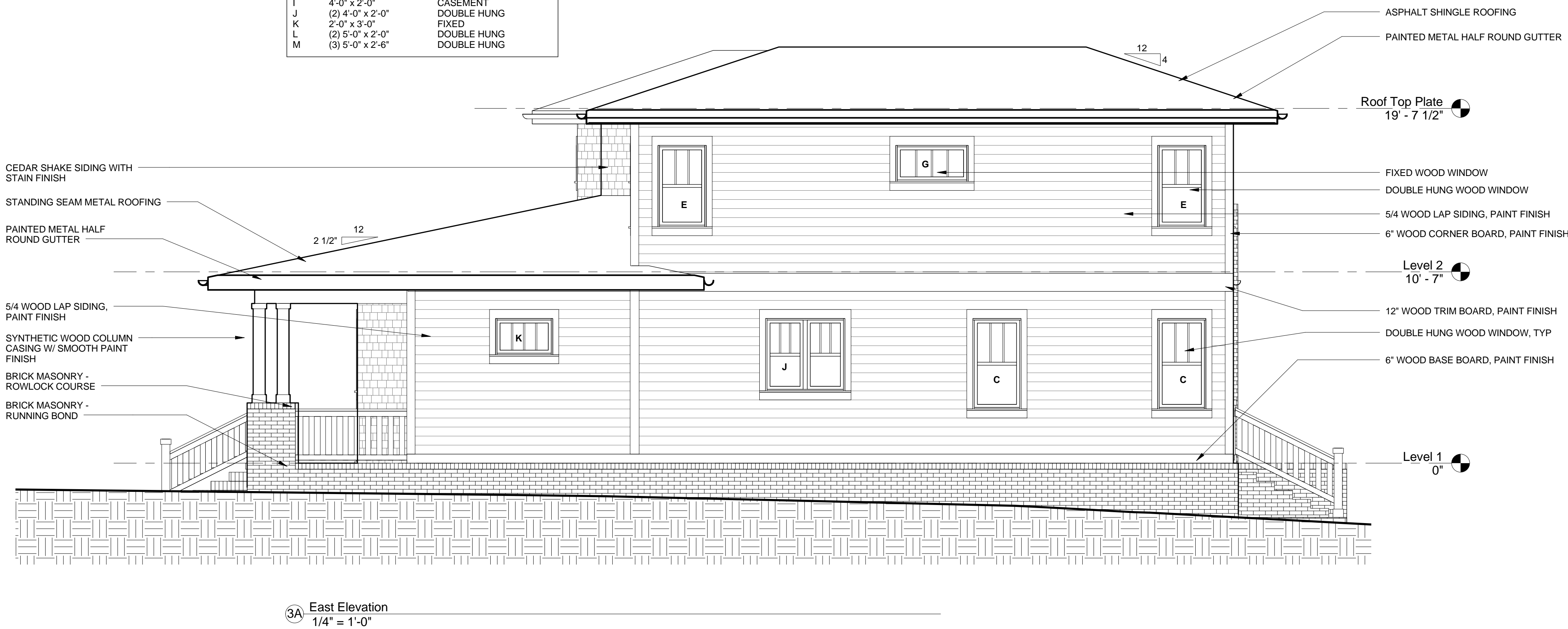
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HOUSE ELEVATIONS

OCTOBER 2015



WINDOW SCHEDULE		
TYPE	DIMENSIONS	OPERATION
A	(2) 5'-0" X 2'-6"	DOUBLE HUNG
B	(2) 5'-0" X 2'-6" + 5'-0" X 2'-6"	CASEMENT + FIXED (MIDDLE PANEL)
C	5'-0" X 2'-6"	DOUBLE HUNG
D	4'-0" X 2'-0"	DOUBLE HUNG
E	4'-6" X 2'-6"	DOUBLE HUNG
F	4'-0" X 2'-6"	DOUBLE HUNG
G	2'-0" X 4'-0"	FIXED
H	(3) 2'-0" X 2'-8"	FIXED
I	4'-0" X 2'-0"	CASEMENT
J	(2) 4'-0" X 2'-0"	DOUBLE HUNG
K	2'-0" X 3'-0"	FIXED
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M	(3) 5'-0" X 2'-6"	DOUBLE HUNG



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### PROJECT

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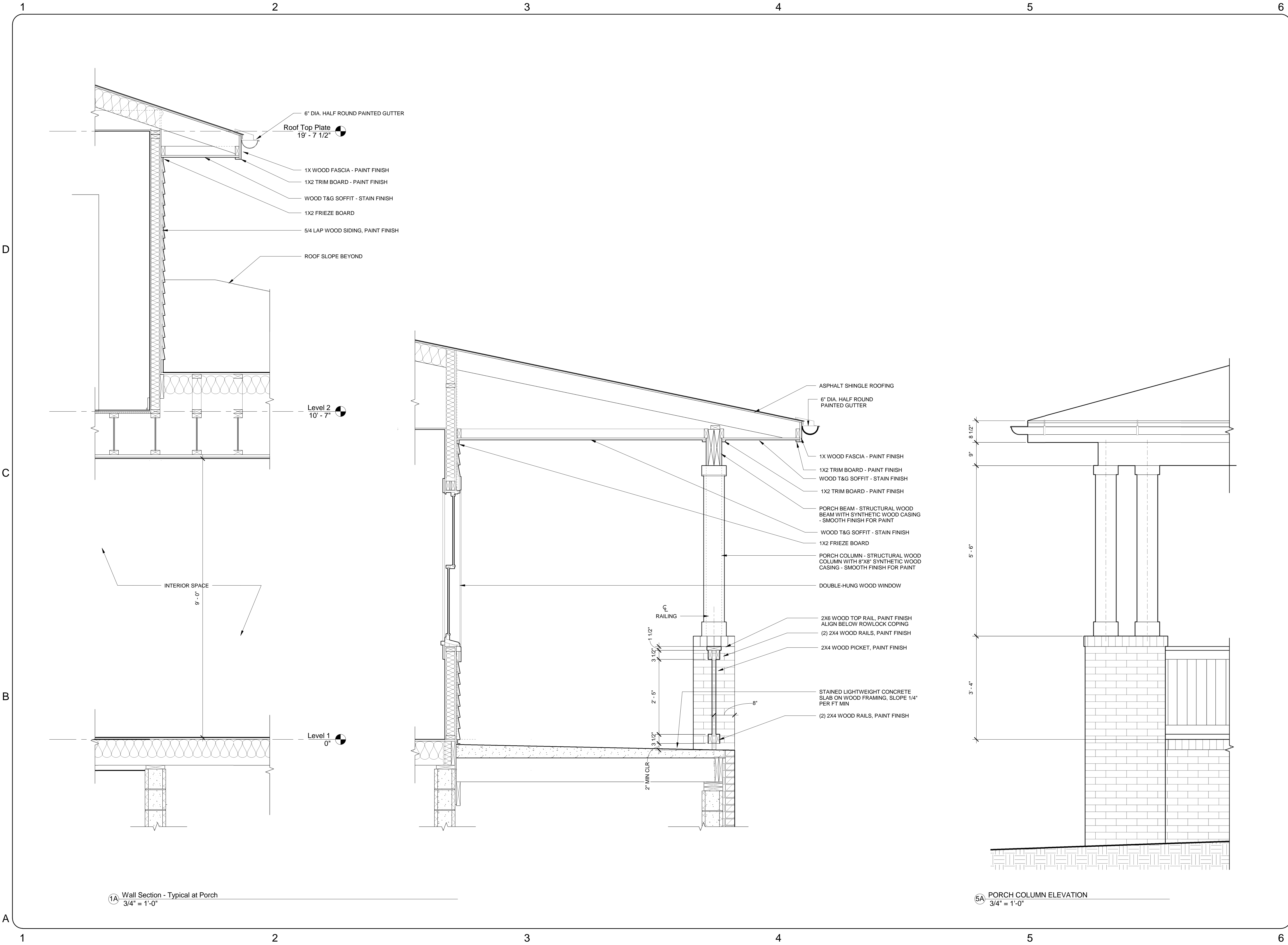
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## HOUSE ELEVATIONS

A2.02





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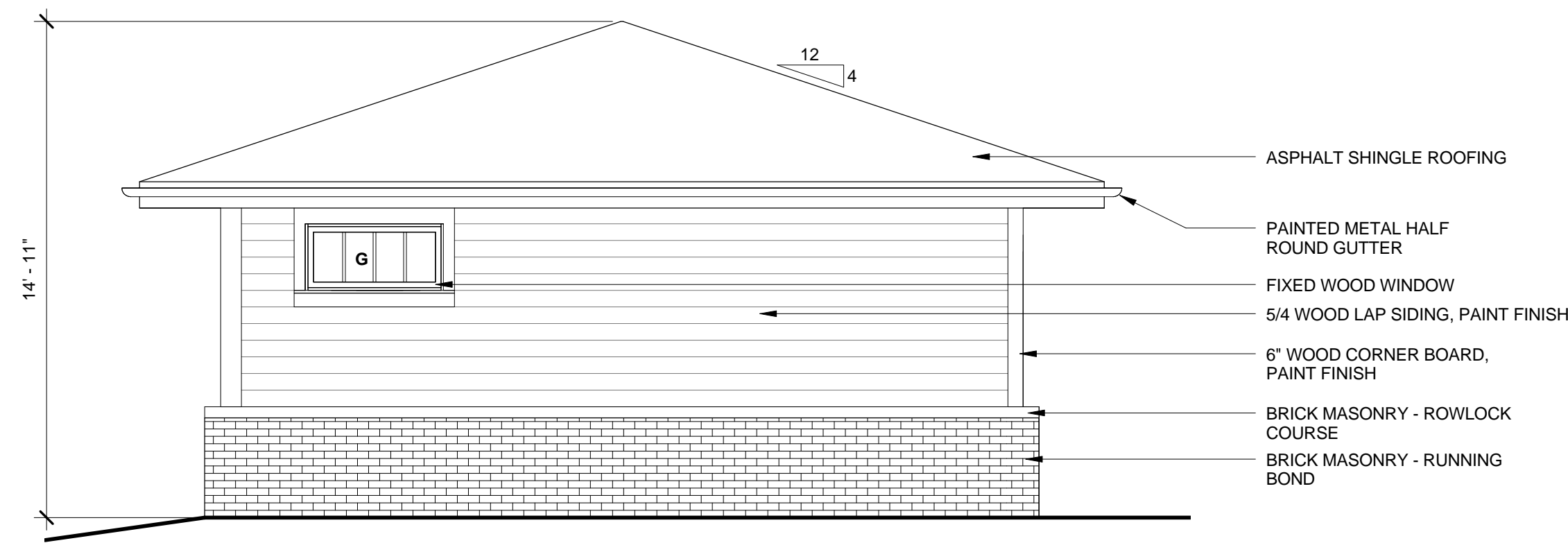
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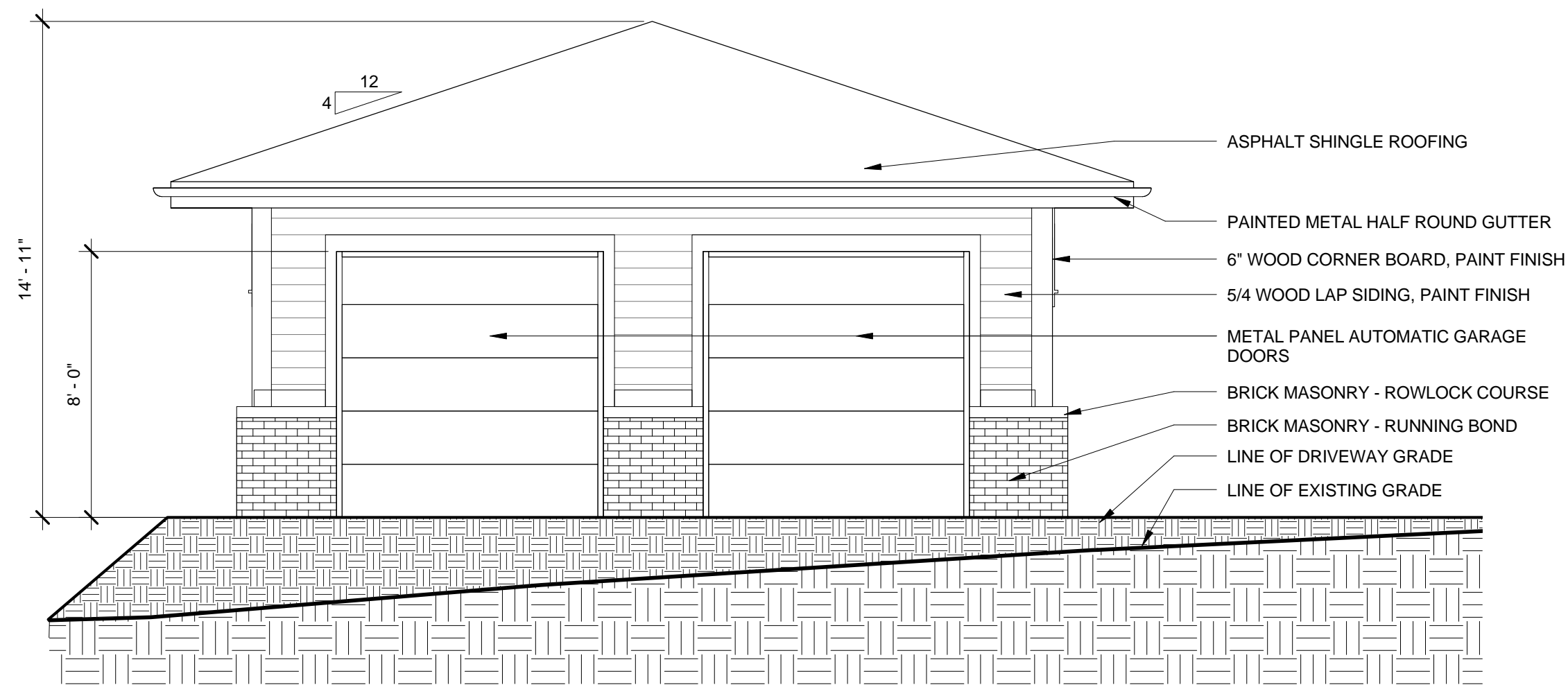
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## BUILDING SECTIONS / DETAILS

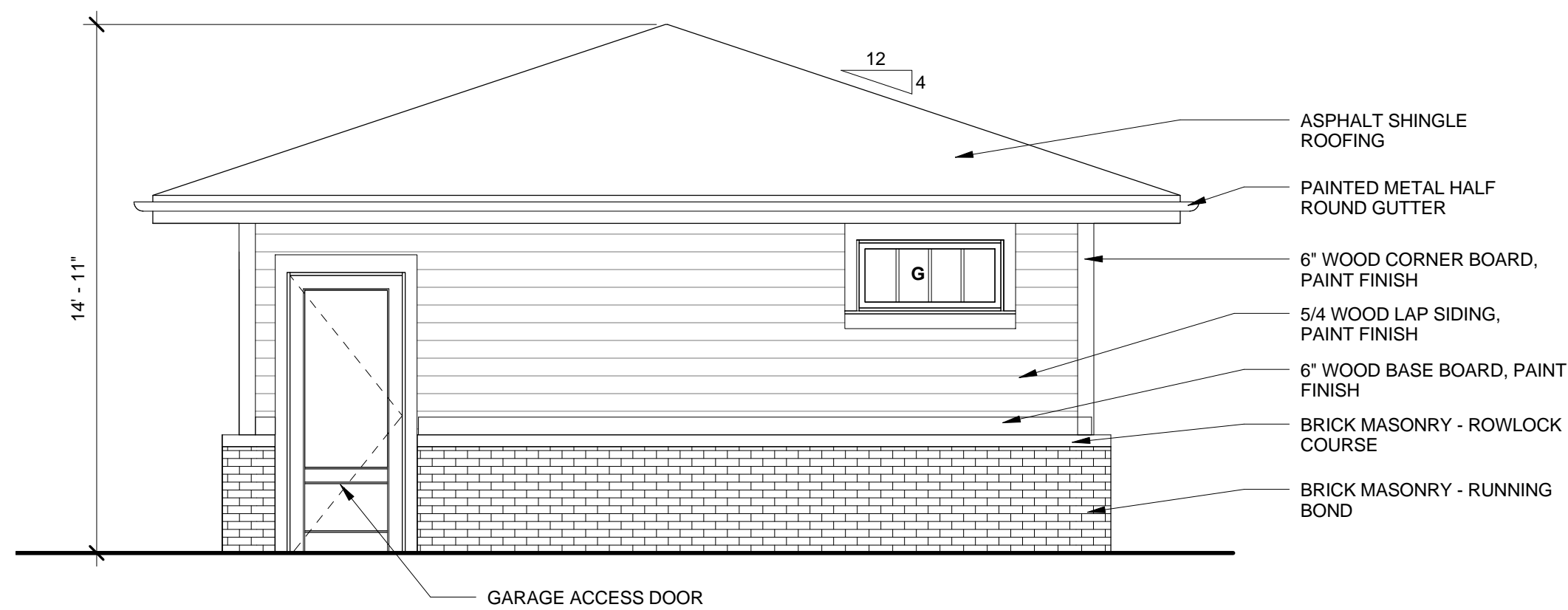




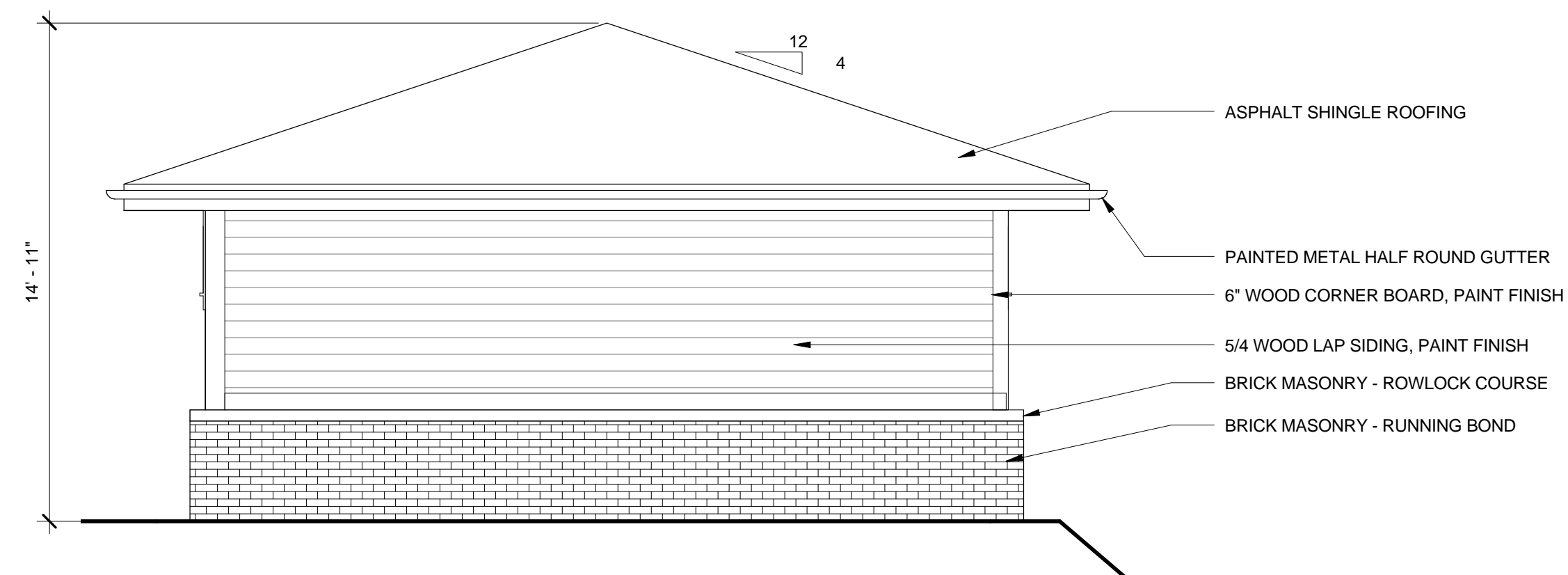
2D GARAGE - WEST ELEVATION  
1/4" = 1'-0"



4D GARAGE SOUTH ELEVATION  
1/4" = 1'-0"



2B GARAGE EAST ELEVATION  
1/4" = 1'-0"



4B Elevation 4 - a  
1/4" = 1'-0"

WINDOW SCHEDULE

TYPE	DIMENSIONS	OPERATION
A	(2) 5'-0" X 2'-6"	DOUBLE HUNG
B	(2) 5'-0" X 2'-6" + 5'-0" X 2'-6"	CASEMENT + FIXED (MIDDLE PANEL)
C	5'-0 X 2'6"	DOUBLE HUNG
D	4'-0" x 2'-0"	DOUBLE HUNG
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F	4'-0" x 2'-6"	DOUBLE HUNG
G	2'-0" x 4'-0"	FIXED
H	(3) 2'-0" x 2'-8"	FIXED
I	4'-0" x 2'-0"	CASEMENT
J	(2) 4'-0" x 2'-0"	DOUBLE HUNG
K	2'-0" x 3'-0"	FIXED
L	(2) 5'-0" x 2'-0"	DOUBLE HUNG
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GARAGE  
ELEVATIONS

A2.03

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Garage Door Example



Railing and Fence Example



# IN HEAD-TO-HEAD COMPETITION, IT'S NO CONTEST.

## MIRATEC VS PRIMED WOOD TRIM

- MiraTEC has none of wood's frustrating drawbacks.
- MiraTEC doesn't require significant maintenance and replacement, because it resists moisture, rot and termites. Primed wood may be treated, but many do not offer rot and termite protection.
- MiraTEC is a more advanced, engineered material.
- MiraTEC offers consistent density.
- MiraTEC won't warp, split or check over time.
- MiraTEC is one solid piece. Primed wood is normally finger jointed to make longer lengths and edge glued to make the width - with a limited warranty on the glue joints.

## MIRATEC VS HARDBOARD/FIBER AND OSB TRIM

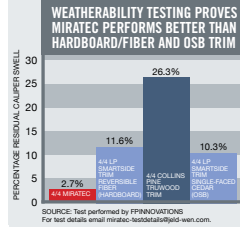
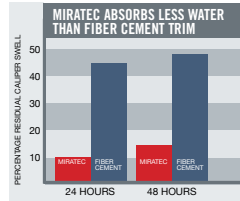
- MiraTEC is not laminated.
- MiraTEC has greater moisture resistance which means better long term performance.
- MiraTEC performs up to 9 times better in Weatherability Testing, which evaluates a product's ability to withstand exposure to the elements over time. See chart at right.

## MIRATEC VS FIBER CEMENT TRIM

- MiraTEC has a more authentic wood grain texture.
- MiraTEC is reversible.
- MiraTEC is highly resistant to moisture. Independent tests show fiber cement absorbs five times more water (ASTM 24-Hour Soak Test). See chart at right.
- MiraTEC is 100% silica free. Cutting fiber cement releases silica, a known carcinogen.
- MiraTEC is not brittle or difficult to stack.
- MiraTEC is as easy to handle, cut and nail as wood, requires no special tools.
- MiraTEC is available in widths up to 16" and lengths of 16', takes less time and labor to install.
- MiraTEC is backed by a 50-year limited warranty. Most fiber cement has a 15-year limited warranty.
- MiraTEC costs up to 30% less.

## MIRATEC VS PVC TRIM

- MiraTEC has a more authentic wood grain texture.
- MiraTEC accepts all shades of paint beautifully.
- MiraTEC is not prone to thermal expansion.
- MiraTEC is made from sustainable materials and renewable resources.
- MiraTEC costs up to 50% less.



## NO OTHER TRIM PERFORMS LIKE MIRATEC.

- >> Resists moisture, rot and termites.
- >> Reversible with clear cedar wood grain texture on one side and smooth on the other.
- >> Easy to handle, machine, cut and nail.
- >> Won't check, split or crack.
- >> Cuts consistently due to uniform product density.
- >> Primed with an ultra-low VOC primer containing a mildewcide.

## ANYONE CAN TALK PERFORMANCE. MIRATEC PROVES IT.

- ✓ Moisture resistant: As measured by ASTM D1037 for Water Absorption and Thickness Swelling.
- ✓ Rot resistant: Tested per AWWA E16 Field Test for Evaluation of Wood Preservatives to be Used Out of Ground Contact: Horizontal Lap-Joint Method.
- ✓ Termite resistant: Tested per AWWA E7 Standard Method of Evaluating Wood Preservatives by Field Tests with Stakes.

ICC ESR-3043 Building code compliant (ESR-3043): MiraTEC is the first and only wood composite trim to earn an evaluation report (ESR-3043) from ICC-ES.



MIRATEC | JELD-WEN  
Trim Division

# IN HEAD-TO-HEAD COMPETITION, IT'S NO CONTEST.

## MIRATEC VS PRIMED WOOD TRIM

- MiraTEC has none of wood's frustrating drawbacks.
- MiraTEC doesn't require significant maintenance and replacement, because it resists moisture, rot and termites. Primed wood may be treated, but many do not offer rot and termite protection.
- MiraTEC is a more advanced, engineered material.
- MiraTEC offers consistent density.
- MiraTEC won't warp, split or check over time.
- MiraTEC is one solid piece. Primed wood is normally finger jointed to make longer lengths and edge glued to make the width - with a limited warranty on the glue joints.

## MIRATEC VS HARDBOARD/FIBER AND OSB TRIM

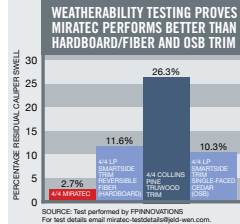
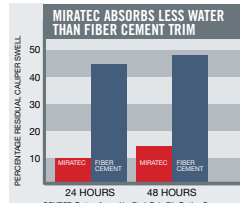
- MiraTEC is not laminated.
- MiraTEC has greater moisture resistance which means better long term performance.
- MiraTEC performs up to 9 times better in Weatherability Testing, which evaluates a product's ability to withstand exposure to the elements over time. See chart at right.

## MIRATEC VS FIBER CEMENT TRIM

- MiraTEC has a more authentic wood grain texture.
- MiraTEC is reversible.
- MiraTEC is highly resistant to moisture. Independent tests show fiber cement absorbs five times more water (ASTM 24-Hour Soak Test). See chart at right.
- MiraTEC is 100% silica free. Cutting fiber cement releases silica, a known carcinogen.
- MiraTEC is not brittle or difficult to stack.
- MiraTEC is as easy to handle, cut and nail as wood, requires no special tools.
- MiraTEC is available in widths up to 16" and lengths of 16', takes less time and labor to install.
- MiraTEC is backed by a 50-year limited warranty. Most fiber cement has a 15-year limited warranty.
- MiraTEC costs up to 30% less.

## MIRATEC VS PVC TRIM

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- MiraTEC accepts all shades of paint beautifully.
- MiraTEC is not prone to thermal expansion.
- MiraTEC is made from sustainable materials and renewable resources.
- MiraTEC costs up to 50% less.



## NO OTHER TRIM PERFORMS LIKE MIRATEC.

- >> Resists moisture, rot and termites.
- >> Reversible with clear cedar wood grain texture on one side and smooth on the other.
- >> Easy to handle, machine, cut and nail.
- >> Won't check, split or crack.
- >> Cuts consistently due to uniform product density.
- >> Primed with an ultra-low VOC primer containing a mildewcide.

## ANYONE CAN TALK PERFORMANCE. MIRATEC PROVES IT.

- ✓ Moisture resistant: As measured by ASTM D1037 for Water Absorption and Thickness Swelling.
- ✓ Rot resistant: Tested per AWWA E16 Field Test for Evaluation of Wood Preservatives to be Used Out of Ground Contact: Horizontal Lap-Joint Method.
- ✓ Termite resistant: Tested per AWWA E7 Standard Method of Evaluating Wood Preservatives by Field Tests with Stakes.

ICC ESR-3043 Building code compliant (ESR-3043): MiraTEC is the first and only wood composite trim to earn an evaluation report (ESR-3043) from ICC-ES.



Miratec Product Information



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# MiraTEC Trim Outperforms Hardboard Trim

*MiraTEC trim earned ESR-3043 and performs to a standard that hardboard products can't – MiraTEC is not hardboard trim.*

	Treated Wood Composite Trim	Hardboard Trim
<b>Brands</b>	MiraTEC <sup>®</sup>	LP SmartSide Trim Reversible Fiber (Hardboard), Collins Pine TruWood Trim
<b>Manufacturing Process</b>	TEC <sup>™</sup> patented and proprietary manufacturing process was created specifically to make trim. TEC manufacturing process creates an engineered wood product with uniform density. MiraTEC is one solid piece – will not delaminate. Made in a sealed press with steam injected for added durability.	Hardboard manufacturing process was created to manufacture exterior siding. Hardboard manufacturing process may create a product with variable density. Hardboard trim may be manufactured by laminating thinner panels together to create trim thicknesses – may delaminate over time. Made in an open press between heated platens.
<b>Durability</b>	Easy to handle, machine, cut and nail. Won't check, split or crack. Treated with zinc borate for superior termite resistance. Made with phenolic resins for excellent moisture resistance. More authentic wood grain texture.	Easy to handle, machine, cut and nail. May delaminate. LP SmartSide Trim Reversible Fiber (Hardboard) and Collins Pine TruWood Trim are laminated in all thicknesses. Less authentic wood grain texture.
<b>Building Code Approved/Listed</b>	MiraTEC trim earned an evaluation report (ESR-3043) from ICC-ES. MiraTEC meets the strict requirements of ICC-ES Acceptance Criteria (AC424). Hardboard trim cannot meet those requirements. This new evidence supports the claim that MiraTEC is a worry-free product with incredible durability and a strong 50-year warranty.	Hardboard trim does not have a building code listing. Hardboard trim cannot perform to the standards in ESR-3043.
<b>Green</b>	MiraTEC trim has no added urea formaldehyde. This is certified by Scientific Certification Systems under certificate number SCS-MC-01802. Made from sustainable materials. No old growth wood is used in the manufacture of MiraTEC trim. Complies with CARB. MiraTEC trim is factory-primed on four sides with a low VOC primer containing a mildewcide. Contributes to industry green building programs such as LEED. 	Varies by brand.
<b>Warranty</b>	Backed by an industry-best 50-year warranty. Protects against hail damage, rot, termite damage and edge swell. 	Warranty coverage varies from 10 to 50 years by brand. LP SmartSide Trim Reversible Fiber (Hardboard) warranty excludes hail damage, termite damage and swelling and/or edge checking.



miratectrim.com



R 20827  
Surface Burning Characteristics  
Flame Spread 120  
Smoke Developed 90



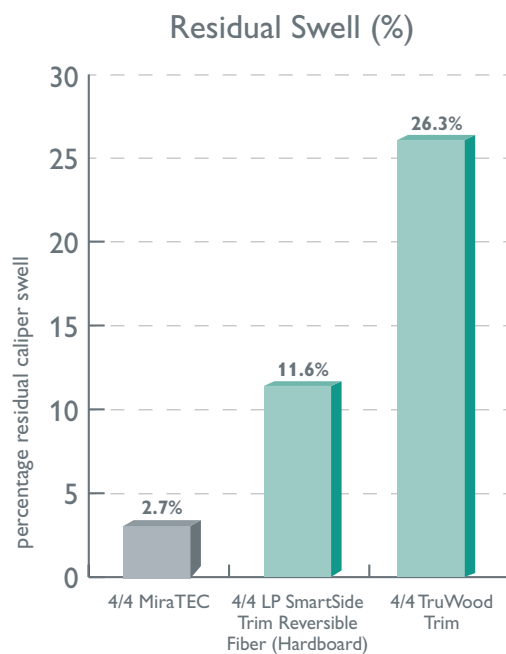
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Covered by one or more of the following patents: 5,677,369; 4,726,881; 5,980,798; 6,030,562; 5,993,709.

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## MiraTEC Trim Performs 9x Better than Hardboard Trim in Long Term Weatherability Testing

- MiraTEC performed 4.29 times better than LP SmartSide Trim (Reversible Fiber, which is a hardboard product).
- MiraTEC performed 9.4 times better than Collins Pine TruWood Trim.



<b>Test Objective</b>	The Weatherability Test, a known standard in wood and composite product testing, evaluates a product's ability to withstand climate change. It is performed in accordance with ANSI A 135.6 (2006). It is meant to show a product's response to real-world weather conditions that assess durability in hot summers, cold winters and rainfall.
<b>Test Protocol</b>	All trim samples used in the test were subject to six (6) cycles of exposure to: soak, steam, freeze, dry, steam again and dry again. All samples tested were nominal 4/4 thickness. The MiraTEC 4/4 product measures a full 3/4." The LP SmartSide 400 Series Trim (reversible fiber, which is a hardboard product) is a scant product, meaning it measures 5/8" instead of the standard.
<b>Test Measurement</b>	Results are calculated by the residual, or remaining, thickness swell of the trim. A trimboard exhibits thickness swelling when exposure to exterior conditions breaks down the resin bonds within the trim, leading to water absorption. The thickness of the sample is calculated at the beginning and at the end of the test.
<b>Test Agency</b>	Test performed by FPIInnovations (formerly Forintek). Email <a href="mailto:miratec-testdetails@jeld-wen.com">miratec-testdetails@jeld-wen.com</a> .



# MIRATEC TRIM IS THE BEST TRIM

Product	Wood Composite	Fiber Cement	PVC	OSB	Hardboard/Fiber	Glass-Fiber-Reinforced Plastic Composite	Wood
Brand Names	MIRATEC®	HardieTrim Boards, WeatherBoards Fiber Cement Trim, Plycem Fiber Cement Exterior Trim	AZEK Trim, VERSATEX Trimboard and others	LP SmartSide Trim Single-faced Cedar Strand (OSB)	LP SmartSide Trim Reversible Fiber (Hardboard), Collins Pine TruWood Trim	Boral TruExterior Trim	Various
Building Code Approved/Listed	ESR-3043	—	ESR-1074, ESR-3160, ESR-3023 and ESR-2972	—	—	—	—
Price	\$\$	\$\$\$	\$\$\$\$	\$\$	\$\$	\$\$\$	Varies by species
Material	Treated Exterior Composite	Fiber Cement	Cellular PVC	Oriented Strand Board (OSB)	Hardboard/Fiber	Glass-Fiber-Reinforced Plastic Fly Ash Composite	Redwood, Cedar, Spruce, Fir or Pine
Construction	Single Piece, Uniform Density, Treated Wood Fiber. Not laminated. Phenolic Resins.	Single Piece Portland Cement, Sand, Cellulose Fiber. Some with voids in backside for reduced weight.	Single Piece Foamed PVC.	Single Piece Laminated Wood Strands. Phenolic Resins.	Two Pieces Laminated Wood Fiber. Phenolic Resins.	Single Piece Polymer Chemistry. Coal-Combustion Products (Ash).	Variable Density.
Rot and Termite Protection	Zinc Borate	None	None	LP SmartGuard	Varies by manufacturer	None	None
Warranty	50 years	15-25 Years <sup>1</sup>	25 Years – Lifetime <sup>2</sup>	50 years <sup>3</sup>	10 - 50 years <sup>3</sup>	20 years	None
Surface (Smooth/Textured)	Reversible <sup>4</sup>	Smooth and Textured (Double SKUs)	Varies by Manufacturer	Textured	Reversible <sup>4</sup>	Reversible <sup>4</sup>	Varies by species
Coating	Factory Primed 4 Sides	Factory Primed 3 Sides	None Required	Factory Primed 3 Sides	Factory Primed 4 Sides	Factory Primed 4 Sides	Primed and Unprimed
Length	16'	10' - 12'	8' - 20'	16' - 20'	12' - 16'	16'	Varies
Thickness	5/8" Actual, 4/4 (3/4" Actual) and 5/4 (1" Actual)	Varies	Varies	Varies	LP offers 440 Series (5/8" Actual) and 540 Series (comparable to 5/4)	4/4 (3/4" Actual) and 5/4 (1" Actual)	Varies
True or Scant Thickness	True	True	True	Scant	Scant	True	—
Green	MiraTEC trim is made from wood chips, a sustainable material, is certified to have no added urea formaldehyde, and offers a low VOC primer containing a mildewcide. Cutting fiber cement releases silica dust, which is a known carcinogen. PVC trim is made from plastic and is not environmentally friendly. Glass-fiber-reinforced plastic composite contains crystalline silica, which is a known carcinogen.						

<sup>1</sup> WeatherBoards Fiber Cement Trim warranty is prorated.

<sup>2</sup> Lifetime Warranty for first owner only.

<sup>3</sup> Hail, termite damage and swelling and/or edge checking are excluded from LP warranties. Hail, damage due to mold, mildew or fungus, termites and swelling and/or edge checking are excluded from TruWood Trim warranty.

<sup>4</sup> Reversible; smooth surface one side and textured on the other.

<sup>5</sup> All widths nominal.



## GRILLE OPTIONS

MATCH ACROSS ALL PRODUCTS



Colonial  
Double-Hung



Colonial  
Picture Window



Colonial  
Frenchwood® Door

Colonial Upper Sash



Simulated  
Double-Hung



Our 2 1/4-inch-wide grille can  
make a casement window  
look like a double-hung.  
See page 35.

Standard Prairie



Diamond



3x1 Upper Sash Only



2x2



3x3

Semi-Custom

Choose any number of same-size rectangles across or down.

Custom



Custom



Your Pattern Here



### DESIGN YOUR OWN PATTERN

Andersen gives you complete flexibility to design  
your own custom grille style. You sketch it, our  
craftsmen will create it.

SHOWN: Andersen® 400 Series  
casements with custom circle pattern  
grilles in transoms.

Andersen 400 Series Window Product Information:  
Alternate product = Pella 450 Series

## ENERGY EFFICIENCY



### We take saving energy seriously.

Saving energy is important to us. That goes for the energy efficiency of the windows and doors we make and also for our manufacturing processes that produce them.

### The easy way to compare energy efficiency.

If you'd like a quick, accurate way to compare the energy efficiency of windows and doors, just look for the National Fenestration Rating Council (NFRC) label. For details see page 18.

### Energy-saving glass for any climate.

Andersen has the glass you need to get the performance you want, including a variety of Low-E glass options to help you control heating and cooling costs in any climate, plus SmartSun™ glass that meets ENERGY STAR® qualifications in all climate zones.



### Take comfort in superior weather resistance.

Andersen® patio doors feature unique locking systems that pull the door panel snugly tight. The result is an enhanced weather seal, plus improved security.

Our weather-resistant construction seals out drafts, winds and water so well, you can relax in comfort whatever the weather. We carefully select weatherstripping to match each style of window and door to make sure you enjoy superior comfort and reliability.

## DURABILITY

### Tough, time-tested Perma-Shield® exteriors.

The exclusive Andersen® Perma-Shield® system gives our windows and doors a tough protective shell that safeguards the wood inside. It repels water, resists dents and stays beautiful for years.\*

## RELIABILITY



### Quality so solid, the warranty is transferable.\*

Most other window and door warranties end when a home is sold, but our coverage — 20 years on glass, 10 years on non-glass parts — transfers from each owner to the next. And, because it is not prorated, the coverage offers full benefits, year after year, owner after owner. So it can add real value when you decide to sell your home.

### Built for years\* to come.

Our products are built strong to last long.\* We use the right materials in the right places, including solid wood, fiberglass and our own Fibrex® composite material. These give our windows and doors superior strength, stability and long-term\* beauty.



### Never needs painting.

The Perma-Shield® exteriors on Andersen® windows and doors won't peel, blister, flake or corrode,\* so they are virtually maintenance free. They come in the four colors most popular with homeowners: White, Sandtone, Terratone® and Forest Green.



### We offer options for the harshest weather environments.

Windows and doors with Stormwatch® protection meet building code requirements in many Gulf and Atlantic coast states.\*\* Products with Stormwatch® protection are energy efficient, resist the effects of salt water and stand up to hurricane-force winds and wind-borne debris.<sup>1</sup> For details visit: [andersenwindows.com/coastal](http://andersenwindows.com/coastal).

Andersen 400 Series Window Product Information:  
Alternate product = Pella 450 Series





*Reversible smooth  
or textured surface  
gives MiraTEC  
maximum versatility*



Innovation

Beauty

Features and Benefits

[Advantages](#)

[Sizes](#)

[FAQ](#)

[Warranty](#)

[Gallery](#)



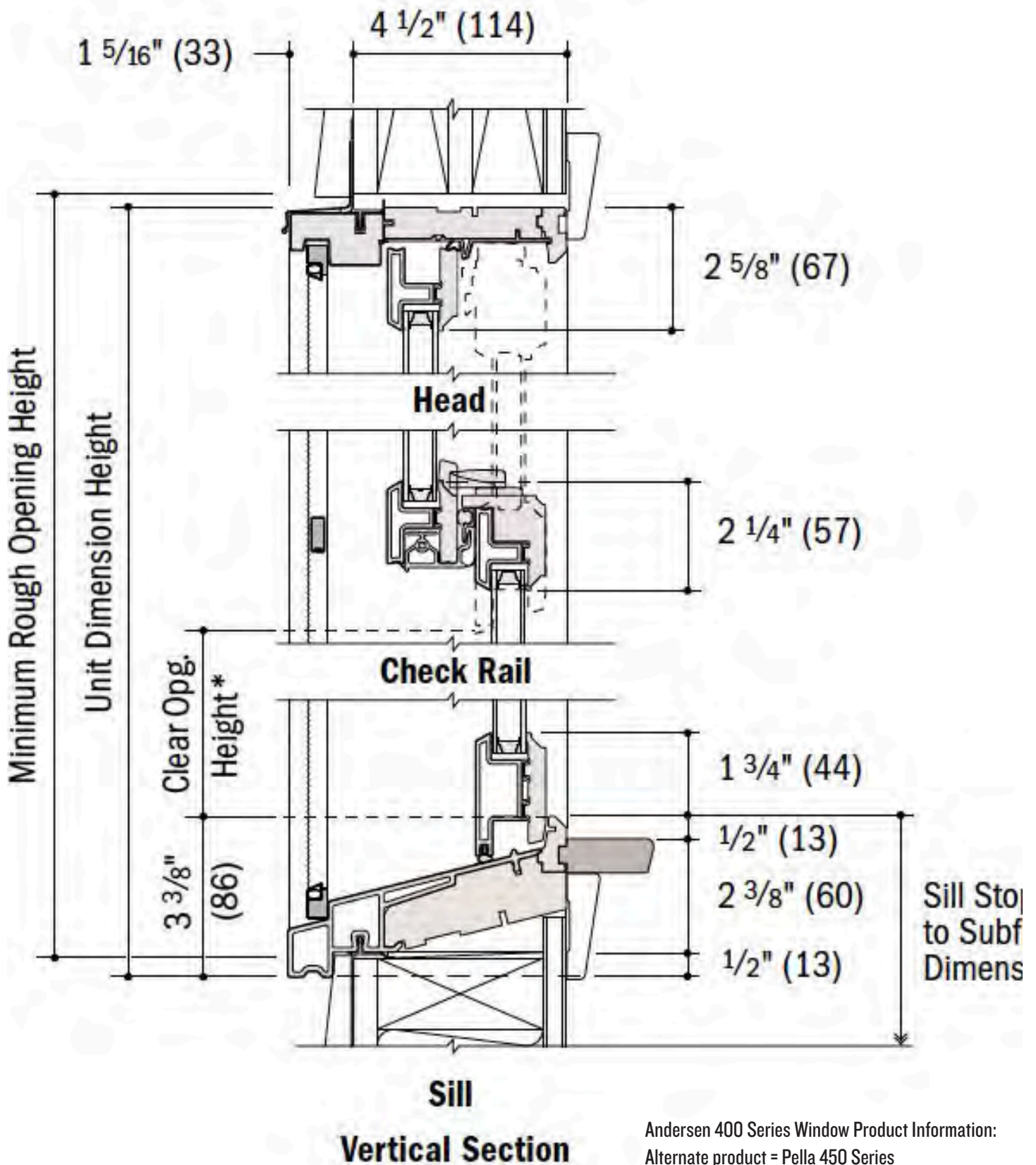
Andersen 400 Series Window Product Information:  
Alternate product = Pella 450 Series

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Andersen 400 Series Window Product Information:  
 Alternate product = Pella 450 Series