ANN ARBOR HISTORIC DISTRICT COMMISSION

Staff Report

ADDRESS: 113 Eighth Street Application Number HDC25-0186

DISTRICT: Old West Side Historic District

STATUS: Contributing

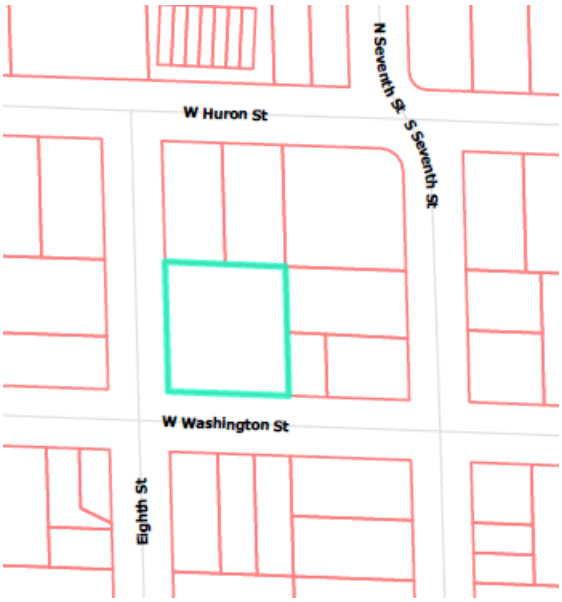
REPORT DATE: January 8, 2026

REPORT PREPARED BY: Jill Thacher, Historic Preservation Coordinator
Mariana Melin-Corcoran, City Planner

REVIEW COMMITTEE DATE: Monday, January 5, 2026

	OWNER	APPLICANT
Name:	Patricia Cantelon	Grace Ahn Ahn Architecture
Address:	509 Pauline Blvd Ann Arbor, MI 48103	5583 Sutters Lane Bloomfield Hills, MI 48301
Phone:	(734) 660-5211	(917) 239-7475

BACKGROUND: This site is a corner lot with two buildings: a single-family house (920 W Washington) and a preschool (113 Eighth). The pre-school is a one-story masonry building with front gabled roof and clapboard siding. The address first appears in the 1919 City Directory as William Frey's Grocery. The 1925 Sanborn Fire Insurance Map shows the material as clay, but at some point the exterior was covered with clapboard. On the Sanborn Maps, it is shown as a rectangular building with a rear covered porch. At some point after 1944, the rear porch was removed, and a one-story rectangular addition was constructed at the rear. This small addition is shown on the 1993 aerials.



There were historically no windows on 113 Eighth St, but in 2001, the HDC approved plans to alter the structure into a pre-school. This included installing new windows, including the four on the front. Based on the aerials, at that same time, the area to the north of the building was paved.

In 1998, the HDC approved the demolition of the building at 113 Eighth St and construction of a new two-story residence in the same location. These plans were never built.

LOCATION: This site is located on the east side of

Eighth Street, south of Huron Street and north of Washington Street.

APPLICATION: The applicant seeks HDC approval to 1) build a 480-square foot addition on the back of an existing preschool and 2) construct a new single-family house on the same lot, facing West Washington Street. No work at 920 W Washington is included in this application.

APPLICABLE REGULATIONS:

From the Secretary of the Interior's Standards for Rehabilitation:

(1) A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.

(9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

(10) New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

From the Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings:

Building Site

Recommended: Designing new exterior additions to historic buildings or adjacent new construction which is compatible with the historic character of the site and which preserve the historic relationship between a building or buildings, landscape features, and open space.

Retaining the historic relationship between buildings, landscape features, and open space.

Not Recommended: Introducing new construction onto the building site which is visually incompatible in terms of size, scale, design, materials, color and texture or which destroys historic relationships on the site.

Introducing a new building or site feature that is out of scale or otherwise inappropriate.

District/Neighborhood

Not Recommended: Introducing new construction into historic districts that is visually incompatible or that destroys historic relationships within the district or neighborhood.

New Additions

Recommended: Constructing a new addition so that there is the least possible loss of historic materials and so that character-defining features are not obscured, damaged, or destroyed.

Designing new additions in a manner that makes clear what is historic and what is new.

Locating the attached exterior addition at the rear or on an in-conspicuous side of a historic building; and limiting its size and scale in relationship to the historic building.

Considering the attached exterior addition both in terms of the new use and the appearance of other buildings in the historic district or neighborhood. Design for the new work may be contemporary or may reference design motifs from the historic building. In either case, it should always be clearly differentiated from the historic building and be compatible in terms of mass, materials, relationship of solids to voids, and color.

Not Recommended: Attaching a new addition so that the character-defining features of the historic building are obscured, damaged, or destroyed.

Designing a new addition so that its size and scale in relation to the historic building are out of proportion, thus diminishing the historic character.

From the Ann Arbor Historic District Design Guidelines:

All New Construction

Appropriate: Retaining the historic relationship between buildings, landscape features and open space.

Designing new features so they are compatible with the historic character of the site, district, and neighborhood.

Basing the site location of new buildings on existing district setbacks, orientation, spacing and distance between adjacent buildings.

Designing new buildings to be compatible with, but discernible from, surrounding buildings that contribute to the overall character of the historic district in terms of height, form, size, scale, massing, proportions, and roof shape.

Designing new sidewalks, entrances, steps, porches and canopies to be consistent with the historic rhythm established in the district.

Not Appropriate: Introducing any new building that is out of scale or otherwise inappropriate to the setting’s historic character.

Introducing a new feature that is visually incompatible with or that destroys the patterns of the site or the district.

Introducing new construction onto a site or in a district, which is visually incompatible in terms of size, scale, design, materials, and texture or which destroys relationships on the

site or the district.

Guidelines for All Additions

Appropriate: Limiting the size and scale of the addition in relationship to the historic building so that it does not diminish or visually overpower the building or the district. The addition should exceed neither half of the original building's footprint nor half of the original building's total floor area.

STAFF FINDINGS:

1. The owner proposes to build a modest addition on the back of the preschool building for an infant room, and to build a new house on the vacant part of the site. The project will require site plan approval from the City Planning Commission because there is a commercial use on the site (the preschool). Since the owner's intent is to split off the existing house at 920 W Washington St onto a new lot, an approved land division will also be required. The HDC does not regulate property boundaries.

2. There have been substantial changes to the building, though it is still a contributing structure. The roof was previously a shed sloping from front to back, which is typical of a neighborhood commercial building of this age. The owner states that in the attic, the old roof is still visible beneath the new gabled roof structure. The building has also been resided, presumably at the time the roof was modified. In 2001, the preschool added windows facing Eighth Street and a small (around 125 square feet) rear addition.

Preschool Addition

3. The proposed preschool addition is a single story, 19ft 4in x 24ft 3in or roughly 480 square feet per the attachments. (When staff does the math it comes out slightly smaller.) This part of the site is currently used as an outdoor play area. The pre-1945 footprint/floor area is approximately 932 sf. The total post-1944 footprint/floor area is approximately 600 sf (earlier 120sf addition + proposed 480sf addition). This constitutes a roughly 64% increase in footprint/floor area. Staff notes that this differs from the calculations included in the drawings because the applicant included the 120sf addition in the pre-1945 footprint/floor area. Since this is a commercial building that has undergone many changes, and the addition is appropriately lower than and separate from the historic part of the building, staff is not concerned about the increased footprint/floor area.

4. The addition will be attached behind an even smaller modern addition on the rear elevation, so no historic materials will be impacted. The design is simple, with a gabled roof and windows that are compatible with those on the rest of the building. Siding is 4in wood ship lap. Gutters and downspouts are proposed on the north and south sides.

   The roof will feature composite shingles. The peak of the addition's gable will be above the existing modern addition but significantly below the peak of the historic gable. Neither the addition nor the rest of the building has eave overhangs.

5. Windows are Weather Shield aluminum clad wood. The windows on the south and east

elevations will be double hung, and the applicant proposes wood muntins applied only to the outside. Though not preferred, staff thinks this is acceptable since there were historically no windows on the building, and these will not be visible from the right of way. The windows on the north elevation will be fixed. A person door by Andersen is a commercial outswing door with a window. Trim will be wood.

6. Staff believes this is an appropriate design, location, and scale for an addition. Though there is an existing paved area to the north, the addition will overall be minimally visible from the right of way. There will be no impact on historic materials.

New House

7. The applicant proposes constructing a new two-story residence with a side gable roof. The front elevation is approximately 32 ft wide (east-west), and overall the house is 74 ft long (north-south), including the attached garage at the rear. The house is 30 ft 6 in high at the ridge and just under 25 ft at the midpoint of the gable (the measurement used by zoning for building height).

   The house features a covered entrance portico with rounded columns and a balcony above with wood guardrails. The front door is accessed by simple concrete steps with a steel handrail. There is a chimney on the west side of the house with a stone veneer finish. There is a one-story portion on the west elevation with a roof deck above with wood guardrails. It is set back approximately 9 ft from the front of the house, and behind it is a paved patio. Behind the two-story portion of the house that faces the street, there are various roof lines (both gables and shed dormers), but these are all lower than the main side gable roof. These lower portions of the house are also set in from the side elevations so they are not visible from the street.

   The proposed siding is mostly wood ship-lap siding with various exposures (2.5, 4, and 6 in). There will be some stone veneer (chimney, foundation) and some wood paneling (western one-story portion).

   Windows throughout will be vinyl clad wood double hung windows. There will be a bay window on the east elevation near the front of the house. The windows on the western one-story portion of the house will also have transom windows. On the front elevation, the windows will have wood panel shutters. The submitted drawings note that the muntins will be either interior only or between the glass. Because the windows are a major design feature and so visible, staff believes that the muntins should be applied on both the interior and exterior with spacers in between, as is most appropriate in historic districts. A condition is included in the motion. Material and dimensions for trim are not specified, but wood or composite would be appropriate.

   Generally, doors will be wood clad half-light doors. The front door will also have sidelights and light fixtures. The doors on the west elevation leading to the second-story deck will be wood fifteen-light double doors.

   The roof throughout will be composite shingle roofing, except over the bay window on the east elevation where it will be standing seam metal roofing.

8. There is an existing curb cut and gravel driveway south of the pre-school building. As part of the project, this will become the main vehicular entrance for the new house (off of Eighth St rather than Washington St). The driveway is proposed to be paved and extended to lead to the garage at the rear of the new house. It will be 10ft wide and then will widen to match the width of the two garage doors. The garage doors will be steel paneled overhead doors with a trellis above. The new paving will not directly abut the pre-school building.

9. The Historic District Commission must determine whether the proposed new house is compatible with adjacent historic structures and the surrounding neighborhood. This includes considering the size of the building (massing, height, width), placement on the lot, design (roof form, fenestration, porches, etc.), materials (mainly cladding, foundation, windows and doors), and texture.

   The meaning of "texture" in a preservation sense isn't necessarily inferred. A useful description can be found here: "The optical texture of a building refers to its visual characteristics from afar, such as windows, sweeping curves, corners and voids. The tactile texture refers to the closer materials that can be physically touched, such as stone or glass building materials, metal façades and timber handrails."

10. The front façade of the house facing West Washington is setback 19ft 2in from the back of the sidewalk. This distance is compatible with the existing house on the lot (920 W Washington), and about 10ft farther back than the house next door to the east, which is very close to the sidewalk (and also blocks most of the view of the east elevation of the proposed house).

    The front door also has a traditional covered portico and several steps up from the sidewalk. There is a substantial bank along the West Washington frontage that can be seen in photographs.

11. The 32 ft width is appropriate for the lot and compatible with neighboring houses. At 30ft 6in tall, the house is a true two stories and will be taller than most of the houses in the immediate vicinity (which are mostly one-and-a-half or one-and-three-quarters stories), but staff feels that two stories is a reasonable height and not out of scale with the district. The house is probably longer (north-south) than most houses in the district because of the attached garage at the rear, but this is not visible and does not impact the feel from the street.

12. The design of the house is not identical to any of the houses in the immediate vicinity; it is appropriate for new construction to be discernable from surrounding buildings. The proposed house is compatible in scale and rhythm of the Old West Side Historic District and features many of the typical characteristics such as stairs leading to a covered front entrance, a regular fenestration pattern, and window shutters. None of the houses in the immediate vicinity have a side gable roof (most have a front-facing gable or gambrel roof), but a side gable roof is not unusual in the district.

    In general, the design leans closer to the Colonial Revival style than most other houses in the district, but this is generally in keeping with the time period and does make the new

construction discernable from the contributing buildings. The new building design, scale, and materials are compatible with the surrounding historic district. Staff believes the proposed work, with the window condition, meets the Standards and Guidelines used by the Historic District Commission.

POSSIBLE MOTIONS: (Note that the motions are only suggested. The Review Committee, consisting of staff and at least two Commissioners, will meet with the applicant on site and then make a recommendation at the meeting.)

For the Preschool Addition:

I move that the Commission issue a certificate of appropriateness for the application at 113 Eighth Street, a lot with two contributing structures in the Old West Side Historic District, to construct a single-story rear addition. The work as proposed is compatible in exterior design, arrangement, texture, material and relationship to the surrounding area and meets the *Ann Arbor Historic District Design Guidelines* for All Additions, and *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitating Historic Buildings,* in particular standards 1, 9 and 10 and the guidelines for Building Site, District/Neighborhood, and New Additions.

For the New House:

I move that the Commission issue a certificate of appropriateness for the application at 113 Eighth Street, a lot with two contributing structures in the Old West Side Historic District, to construct two-story house with an attached garage and pave a new driveway on the following condition: that all windows with divided lites use muntins applied to the exterior and interior of the glass, and a corresponding spacer between the glass. The work as conditioned is compatible in exterior design, arrangement, texture, material and relationship to the surrounding area and meets the *Ann Arbor Historic District Design Guidelines* for All New Construction, and *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitating Historic Buildings,* in particular standards 9 and 10 and the guidelines for Building Site and District/Neighborhood.

MOTION WORKSHEET:

I move that the Commission issue a Certificate of Appropriateness for the work at 113 Eighth Street in the Old West Side Historic District

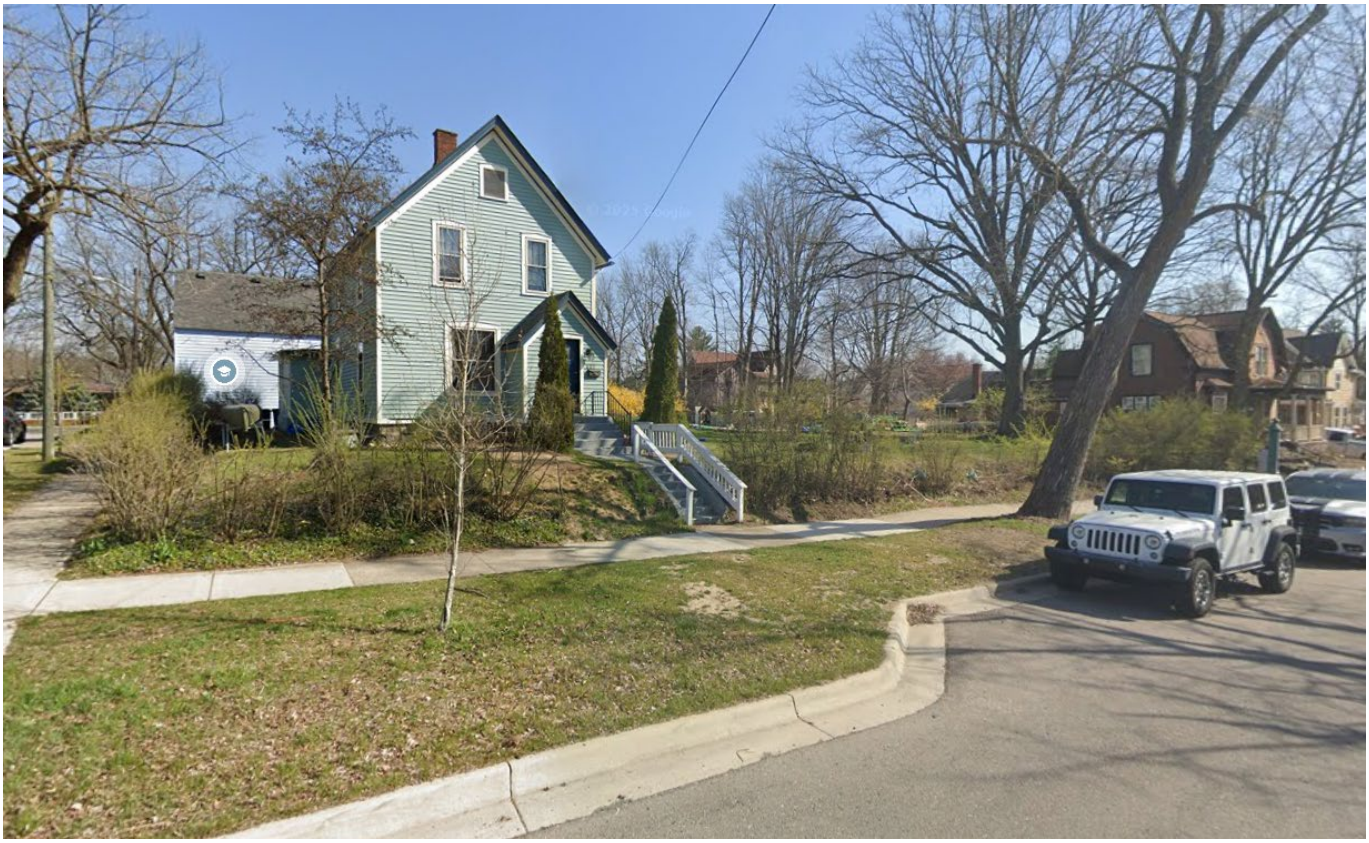
____ Provided the following condition(S) is (ARE) met: 1) STATE CONDITION(s)

The work is generally compatible with the size, scale, massing, and materials and meets the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) *(circle all that apply)*: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

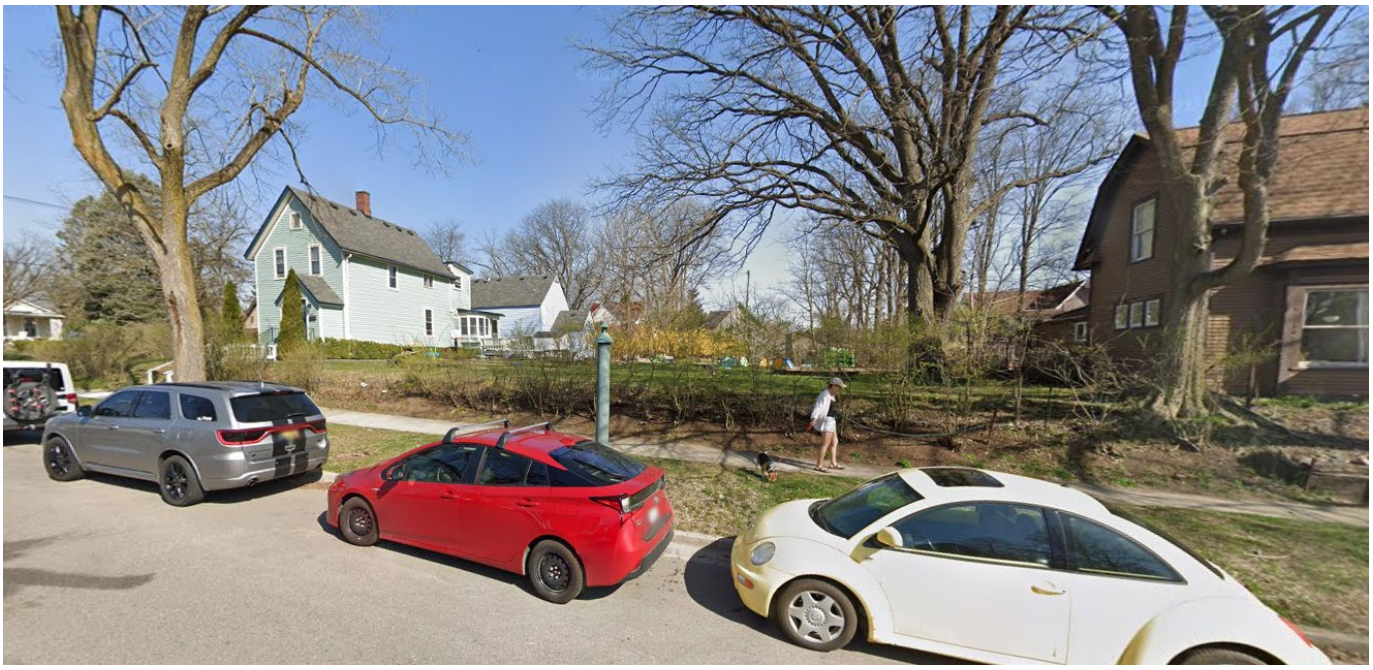
ATTACHMENTS: drawings, photos

113 Eighth Street, Little Blue Preschool (center) and the existing house at 920 W Washington Street (April 2024, courtesy Google Street View)

920 W Washington with Little Blue Preschool behind; vacant portion of the lot to the right. (April 2024, courtesy Google Street View)



Vacant portion of the lot with 920 W Washington with Little Blue Preschool beyond. (April 2024, courtesy Google Street View)



1990 Survey Photo

LITTLE BLUE PRESCHOOL
ADDITION

ISSUE: **HISTORIC DISTRICT COMMISSION**
RELEASE DATE: **DECEMBER 16, 2025**

PROJECT & BUILDING INFORMATION

HISTORICAL DISTRICT	Old West Side
YEAR BUILT	1925*, 2002 Remodeled (*Sanborn Map)
ZONING CODE	R2A
FLOOD PLAIN	No
FLOODWAY	No
USE/OCCUPANCY	Group E, Child Care Facility*
BUILDING CONSTRUCTION	Type V
NUMBER OF STORIES	1 Above Grade, 1 Story Below Grade (Mechanical, Non-occupiable)
BUILDING HEIGHT, EXTG	20'-5"
BUILDING HEIGHT, NEW	14' -3"
BUILDING FOOTPRINT, EXTG	1091 SF
BUILDING FOOTPRINT, NEW	480 SF
FIRE SUPRESSION	NO
FIRE ALARM	NO

FOOTPRINT AND FLOOR AREA TABLE

Pre-1945 Footprint =	1091 square feet
New Footprint Area =	480 square feet
Proposed Footprint =	1571 square feet
% increase of Footprint =	44% (new footprint area/pre-1945 footprint area)
Pre-1945 Floor Area =	995 square feet
New Floor Area =	427 square feet
Proposed Floor Area =	1422 square feet
% increase of Floor Area =	43% (new floor area/pre-1945 floor area)

SHEET INDEX

Sheet Number	Sheet Name
H0.0	COVER SHEET
HX1.0	EXISTING SITE PLAN
HX1.1	EXISTING PHOTOS
HX1.2	EXISTING PHOTOS
HX2.0	EXISTING FLOOR PLAN
HX3.0	WEST ELEVATION
HP1.0	PROPOSED SITE PLAN
HP2.0	PROPOSED FLOOR PLAN
HP3.0	EXTERIOR ELEVATIONS
HP3.1	NORTH ELEVATION
HP3.2	EAST ELEVATION
HP3.3	SOUTH ELEVATION
HP4.0	WINDOW & DOOR SCHEDULE

VICINITY MAP

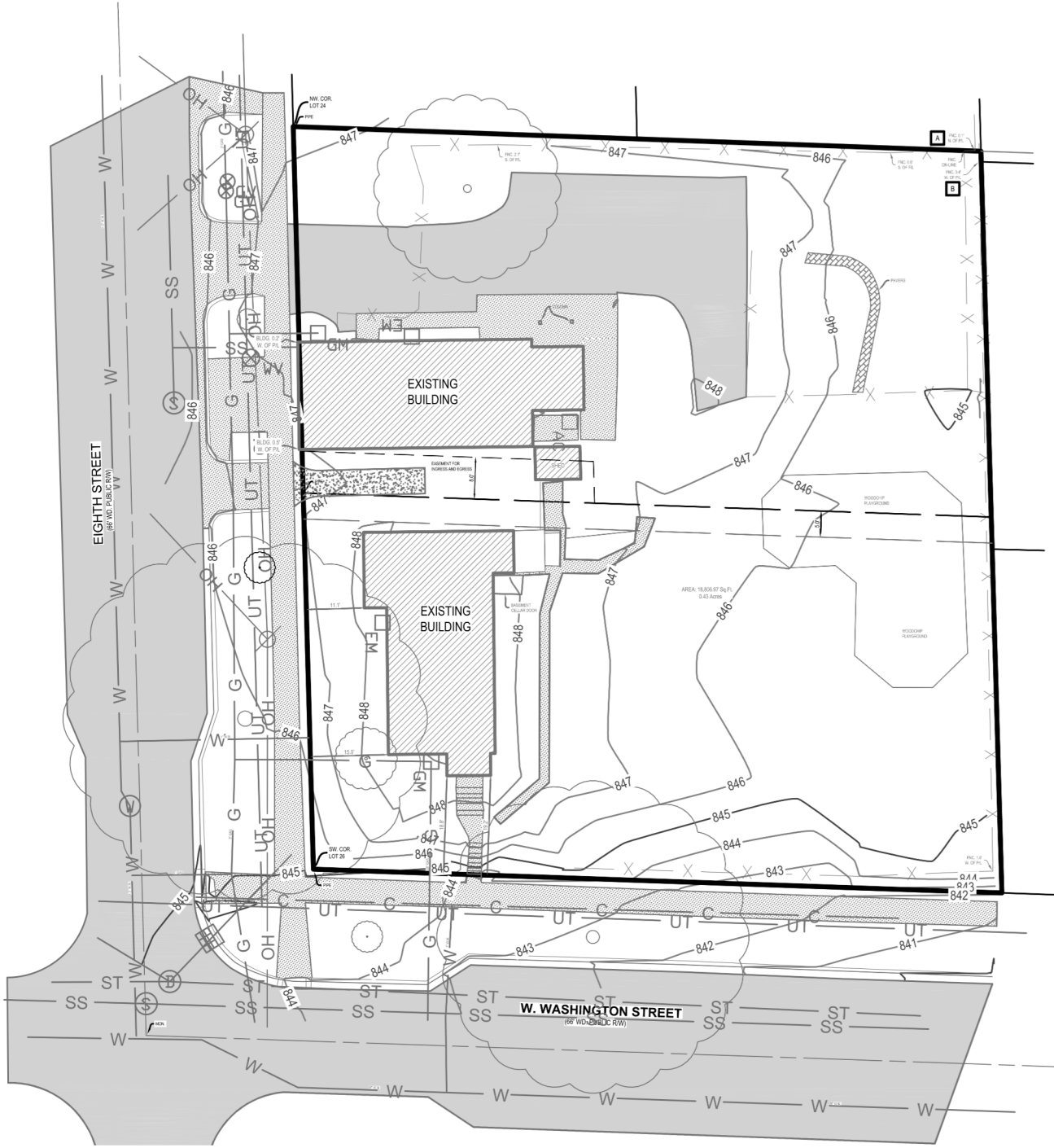
H0.0
COVER SHEET

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102
DATE: 12/16/25

113 Eighth St, Ann Arbor, MI 48103



0' 15' 30' 60'

SCALE: 1" = 30'

HX1.0

EXISTING SITE PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102

DATE: 12/16/25

113 Eighth St, Ann Arbor, MI 48103

West Elevation

Perspective looking southeast

North Elevation

North Elevation

HX1.1

Existing Photos

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

Little Blue Preschool Addition

PROJECT No: 24-COM-102

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113 Eighth St, Ann Arbor, MI 48103

East Elevation

Perspective looking north west

Perspective looking northeast

HX1.2

Existing Photos

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

Little Blue Preschool Addition

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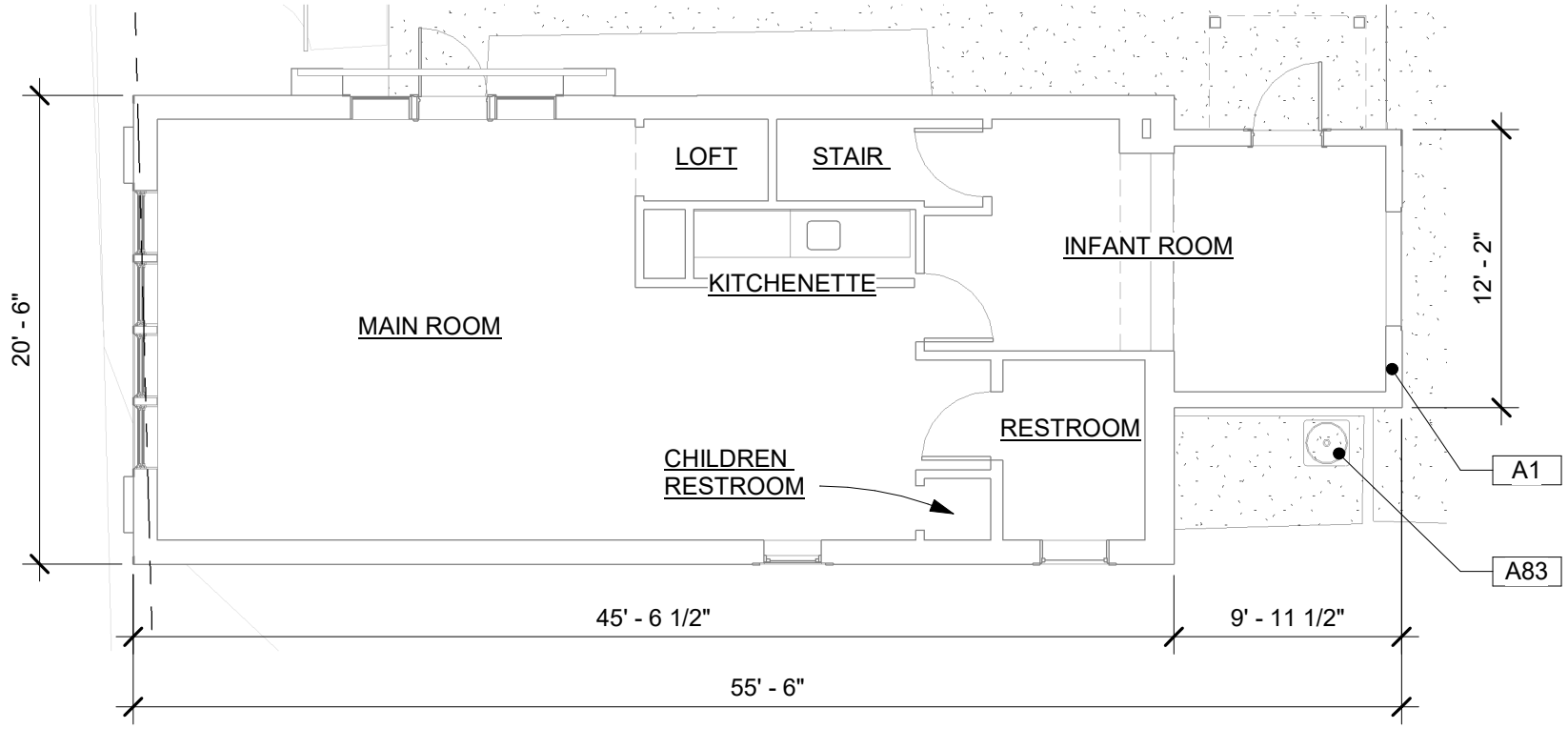
113 Eighth St, Ann Arbor, MI 48103

KEYNOTES HDC	
A1	EXISTING WALL STRUCTURE TO REMAIN
A83	A/C MECHANICAL UNIT ON CONC. PAD



1 EXISTING FLOOR PLAN
1/8" = 1'-0"

HX2.0

EXISTING FLOOR PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102
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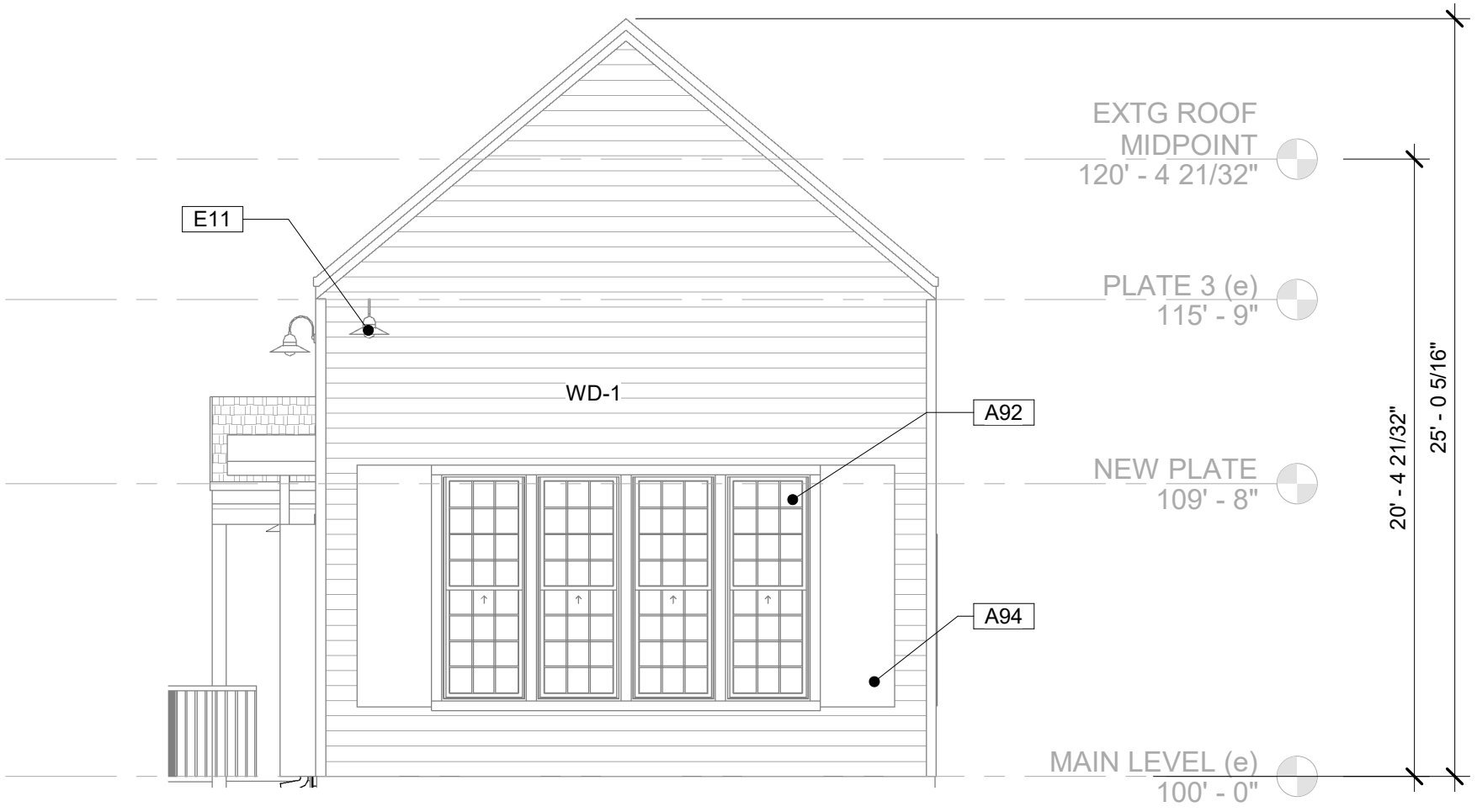
113 Eighth St, Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND
WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)
R1 - COMPOSITE SHINGLE ROOFING

KEYNOTES HDC	
A92	EXISTING WEATHERSHIELD DOUBLE HUNG WINDOW TO REMAIN
A94	EXISTING EXTERIOR DECORATIVE FEATURES TO REMAIN, REFER TO PHOTOS
E11	EXSITING EXTERIOR WALL SCONCE LIGHT FIXTURE TO REMAIN



1 EXISTING WEST ELEVATION
3/16" = 1'-0"

HX3.0
EXISTING WEST ELEVATION

AHN ARCHITECTURE
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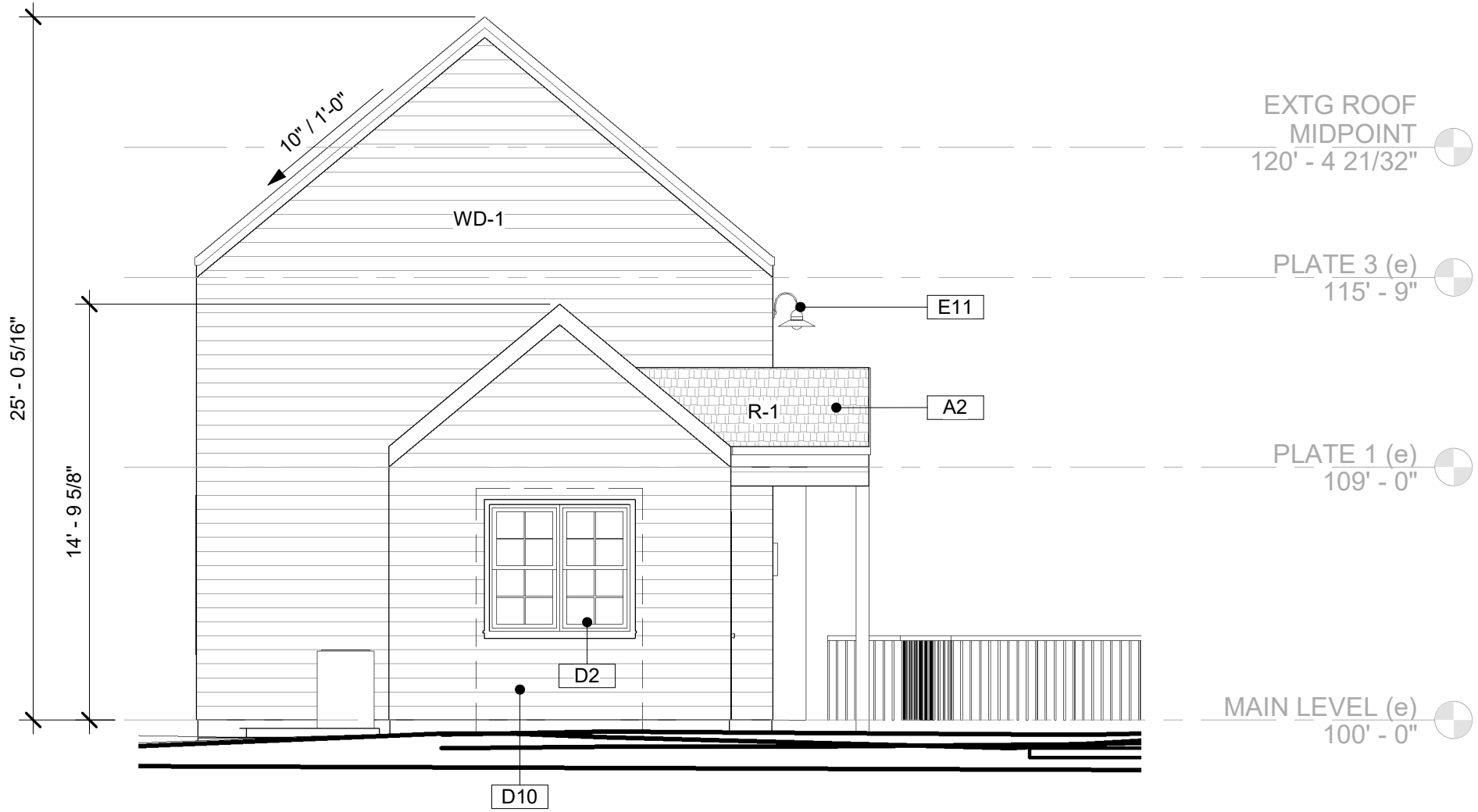
EXTERIOR MATERIAL LEGEND
WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)
R1 - COMPOSITE SHINGLE ROOFING

KEYNOTES HDC	
A2	EXISTING ROOF STRUCTURE TO REMAIN
D2	DEMOLISH / REMOVE EXISTING WINDOW
D10	DEMOLISH PORTION OF EXTG. WALL FOR NEW OPENING PER PLAN
E11	EXSITING EXTERIOR WALL SCONCE LIGHT FIXTURE TO REMAIN



1 EXISTING EAST ELEVATION
3/16" = 1'-0"

HX3.1

EXISTING EAST ELEVATION

AHN ARCHITECTURE
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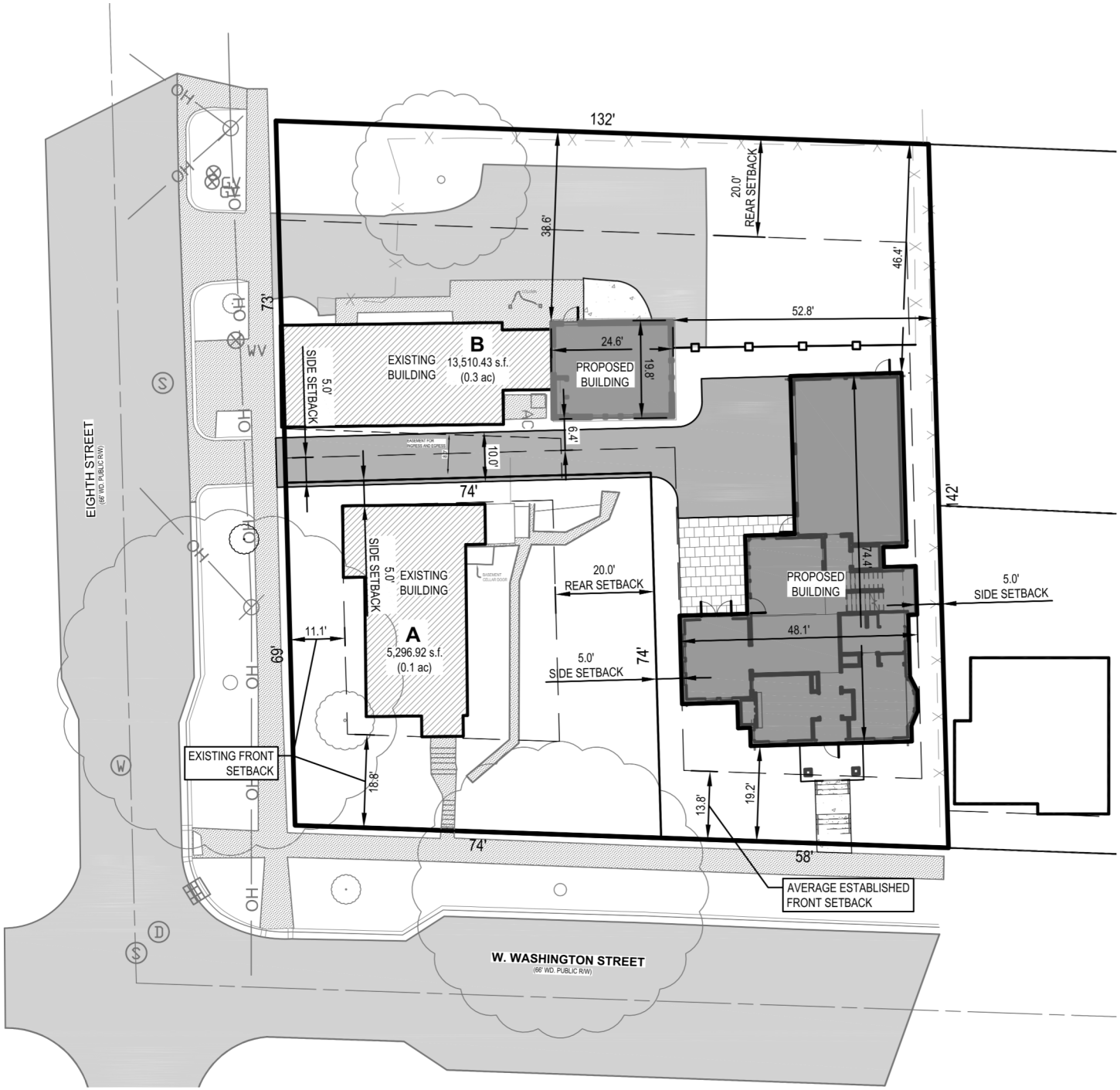

N

0' 15' 30' 60'

SCALE: 1" = 30'

LEGEND

- EXISTING BITUMINOUS
- EXISTING CONCRETE
- PROPOSED BITUMINOUS (STANDARD DUTY)
- PROPOSED CONCRETE (STANDARD DUTY)

HP1.0

PROPOSED SITE PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

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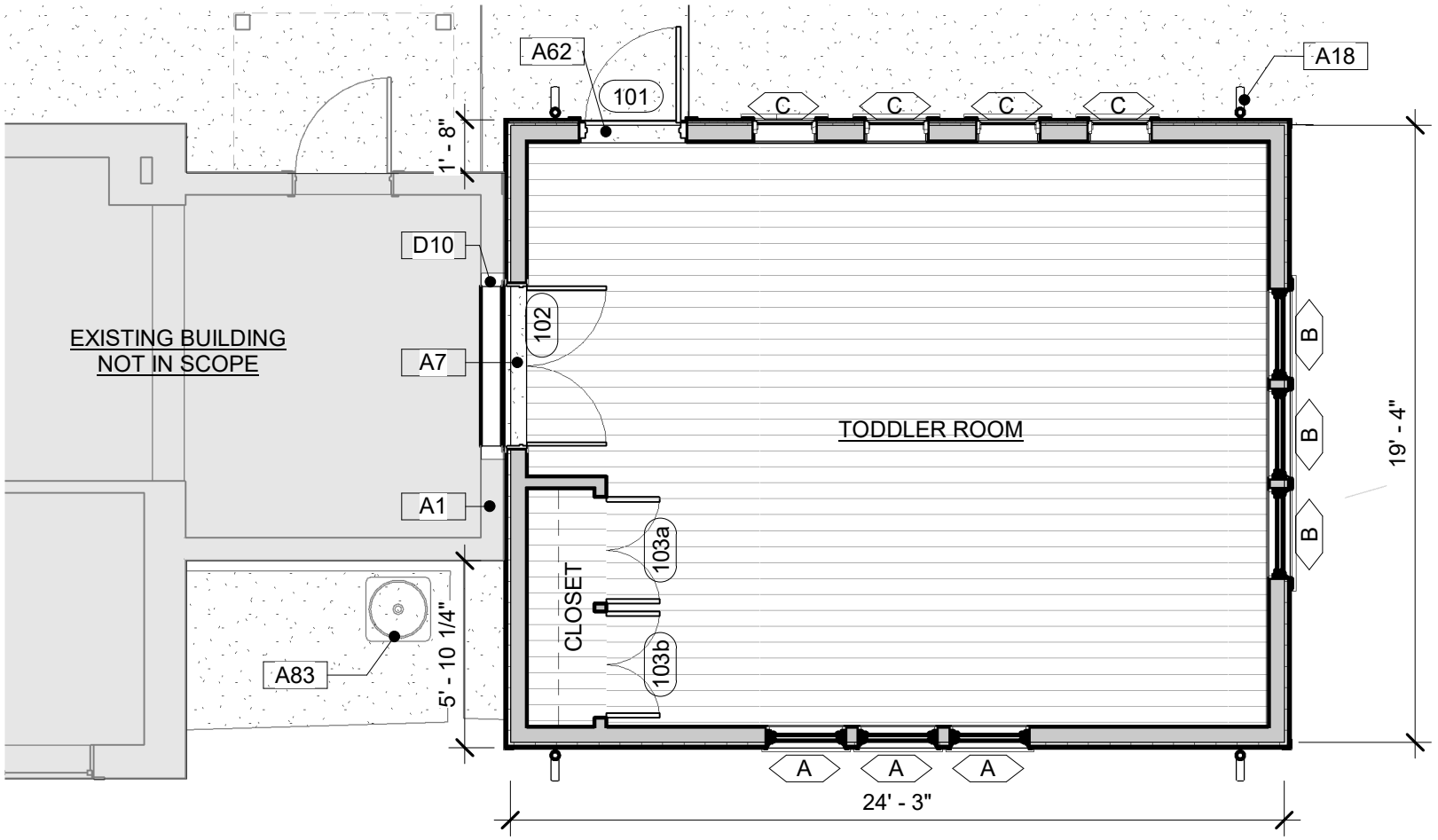
113 Eighth St, Ann Arbor, MI 48103

KEYNOTES HDC	
A1	EXISTING WALL STRUCTURE TO REMAIN
A7	NEW DOOR PER SCHEDULE
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A62	DOOR THRESHOLD SET IN FULL MASTIC BED, TYP.
A83	A/C MECHANICAL UNIT ON CONC. PAD
D10	DEMOLISH PORTION OF EXTG. WALL FOR NEW OPENING PER PLAN



1 PROPOSED FLOOR PLAN
3/16" = 1'-0"

HP2.0
FLOOR PLAN

AHN ARCHITECTURE
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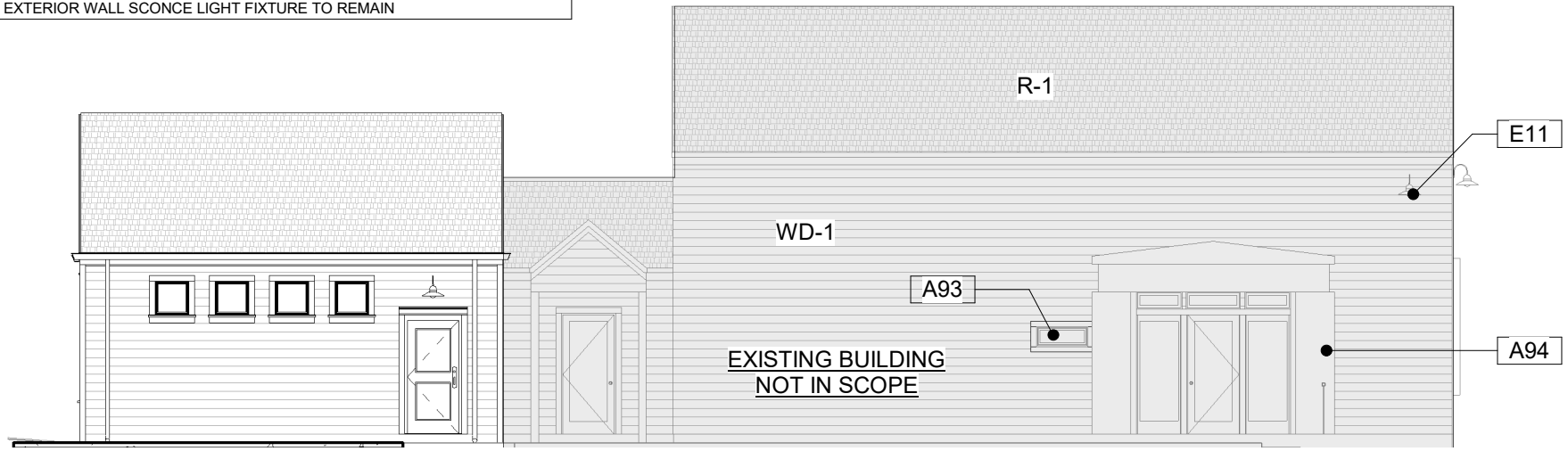
KEYNOTES HDC	
A92	EXISTING WEATHERSHIELD DOUBLE HUNG WINDOW TO REMAIN
A93	EXISTING WEATHERSHIELD FIXED WINDOW TO REMAIN
A94	EXISTING EXTERIOR DECORATIVE FEATURES TO REMAIN
A95	EXISTING WAVE PATTERN GLASS BLOCK WINDOW TO REMAIN
E11	EXSITING EXTERIOR WALL SCONCE LIGHT FIXTURE TO REMAIN

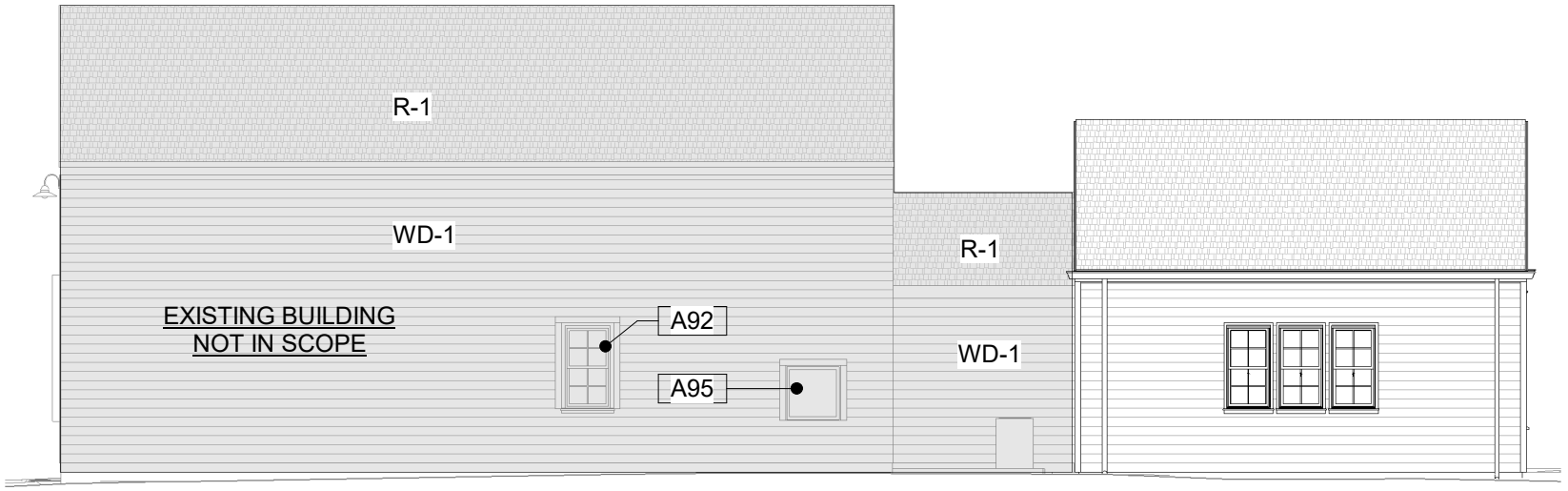
EXTERIOR MATERIAL LEGEND

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

R1 - COMPOSITE SHINGLE ROOFING



1 NORTH ELEVATION
1" = 10'-0"



2 SOUTH ELEVATION
1" = 10'-0"

HP3.0

EXTERIOR ELEVATIONS

AHN ARCHITECTURE
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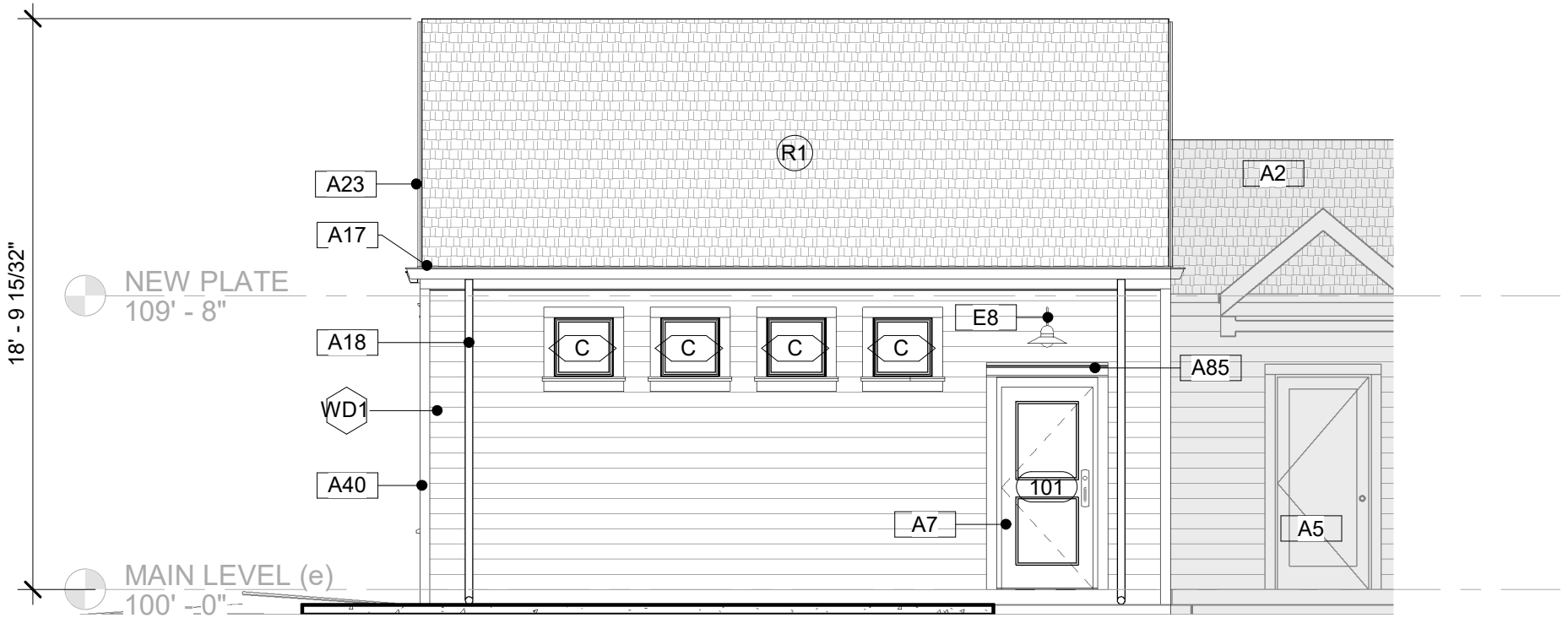
EXTERIOR MATERIAL LEGEND

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

KEYNOTES HDC	
A2	EXISTING ROOF STRUCTURE TO REMAIN
A5	EXISTING DOOR TO REMAIN
A7	NEW DOOR PER SCHEDULE
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A23	1x6 TRIM FASCIA w/1x SUB-FASCIA (PAINT)
A40	1x EXTERIOR WINDOW / DOOR TRIM (PAINT)
A85	1x WOOD HEAD TRIM w/ CROWN MOLD PROFILE (PAINT)
E8	GOOSENECK EXTERIOR LIGHT FIXTURE



1 PROPOSED NORTH ELEVATION
3/16" = 1'-0"

HP3.1

NORTH ELEVATION

AHN ARCHITECTURE
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PROJECT No: 24-COM-102
DATE: 12/16/25

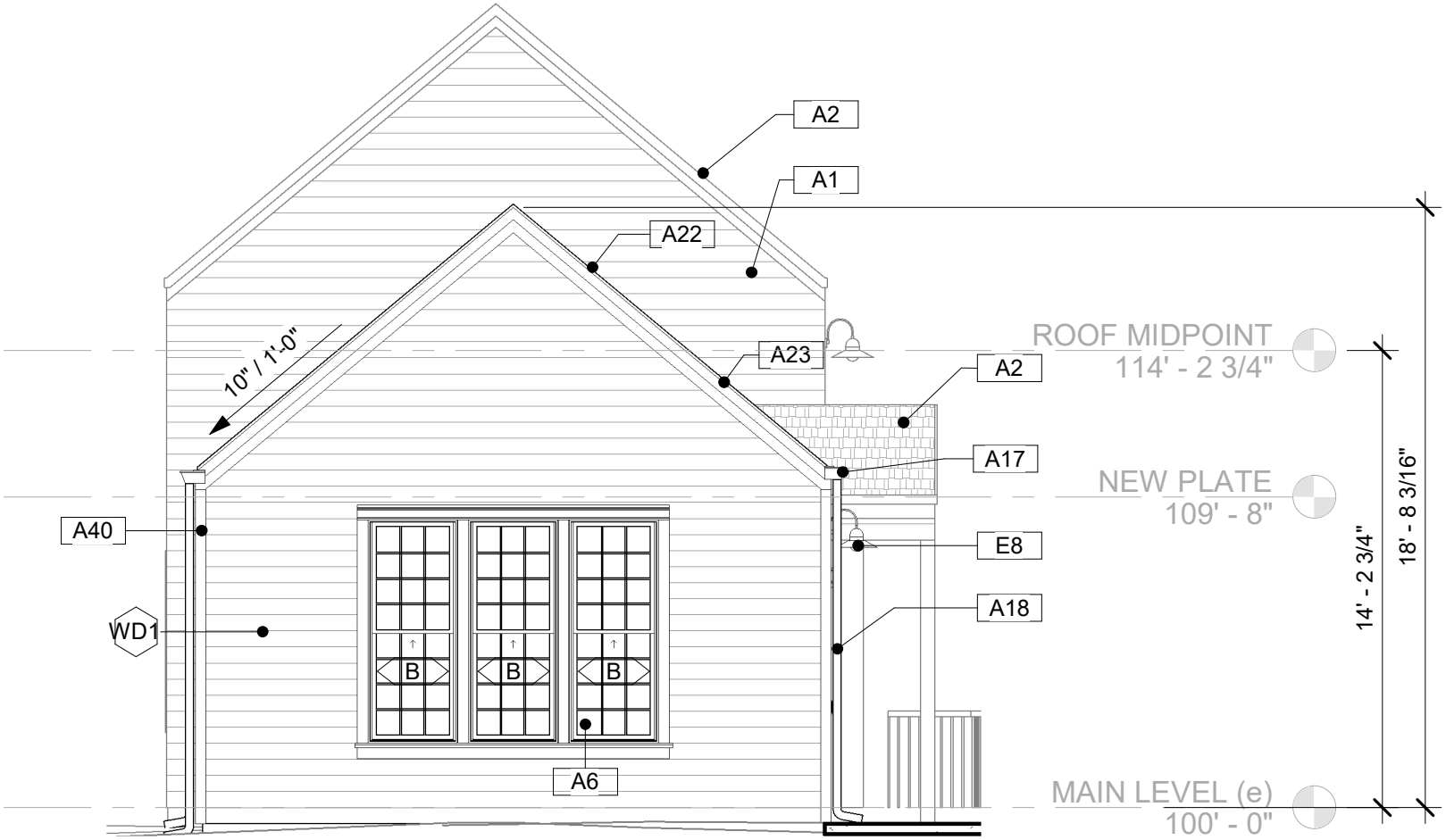
113 Eighth St, Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

KEYNOTES HDC	
A1	EXISTING WALL STRUCTURE TO REMAIN
A2	EXISTING ROOF STRUCTURE TO REMAIN
A6	NEW WOOD CLAD WINDOW UNIT PER SCHEDULE
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A22	PRE-FINISHED METAL EDGE FLASHING w/ DRIP PER ROOFING MNFR., TYP.
A23	1x6 TRIM FASCIA w/1x SUB-FASCIA (PAINT)
A40	1x EXTERIOR WINDOW / DOOR TRIM (PAINT)
E8	GOOSENECK EXTERIOR LIGHT FIXTURE



1 PROPOSED EAST ELEVATION
3/16" = 1'-0"

HP3.2
EAST ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102
DATE: 12/16/25

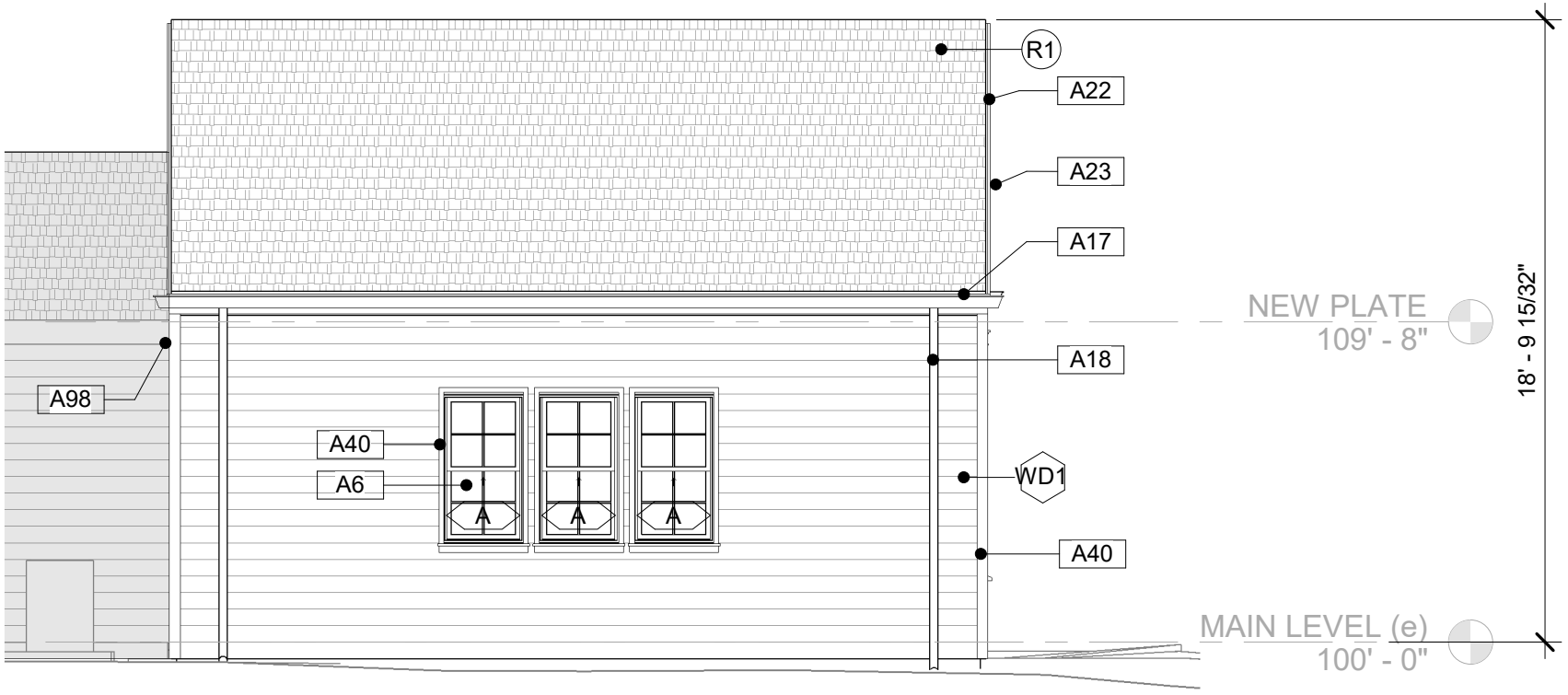
113 Eighth St, Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

KEYNOTES HDC	
A6	NEW WOOD CLAD WINDOW UNIT PER SCHEDULE
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A22	PRE-FINISHED METAL EDGE FLASHING w/ DRIP PER ROOFING MNFR., TYP.
A23	1x6 TRIM FASCIA w/1x SUB-FASCIA (PAINT)
A40	1x EXTERIOR WINDOW / DOOR TRIM (PAINT)
A98	DUCTLESS MINI SPLIT HVAC SYSTEM



1 PROPOSED SOUTH ELEVATION
3/16" = 1'-0"

HP3.3

SOUTH ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102
DATE: 12/16/25

113 Eighth St, Ann Arbor, MI 48103

WINDOW SCHEDULE					
Mark	Count	Width	Height	Window Description	Comments
A	3	2' - 5 1/2"	4' - 5 1/2"	Window-Double_Hung-Weather_Shield-Premium-Single	Tempered
B	3	2' - 9 1/2"	6' - 11 1/2"	Window-Double_Hung-Weather_Shield-Premium-Single	Tempered, 7/8" Grille Removable
C	4	1' - 11 1/2"	1' - 11 1/2"	Window-Direct_Set-Weather_Shield-Premium-Rectangular	Fixed

HP4.0

WINDOW SCHEDULE

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

LITTLE BLUE PRESCHOOL ADDITION

PROJECT No: 24-COM-102

DATE: 12/16/25

113 Eighth St, Ann Arbor, MI 48103

Weather Shield®

Double Hung Windows

Premium Series™

Elevation Details

Double Hung Windows (8120)

Jamb Dimension			1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-7 1/2"	2'-9 1/2"	2'-11 1/2"	3'-1 1/2"	3'-5 1/2"	3'-11 1/2"
	Rough Opening		1'-6"	2'-0"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-6"	4'-0"
		Metric R.O. (mm)	457	610	762	813	864	914	965	1067	1219
		Glass Size	12"	18"	24"	26"	28"	30"	32"	36"	42"
5'-11 1/2"	6'-0"	1829	31 11/16"								
5'-5 1/2"	5'-6"	1676	28 11/16"	1656	2056	2656	2856	21056	3056	3256	3656	4056
5'-1 1/2"	5'-2"	1575	26 11/16"	1652	2052	2652	2852	21052	3052	3252	3652	4052
4'-11 1/2"	5'-0"	1524	25 11/16"	1650	2050	2650	2850	21050	3050	3250	3650	4050
4'-7 1/2"	4'-8"	1422	23 11/16"	1648	2048	2648	2848	21048	3048	3248	3648	4048
4'-5 1/2"	4'-6"	1372	22 11/16"	1646	2046	2646	2846	21046	3046	3246	3646	4046
3'-11 1/2"	4'-0"	1219	19 11/16"	1640	2040	2640	2840	21040	3040	3240	3640	4040
3'-5 1/2"	3'-6"	1067	16 11/16"	1636	2036	2636	2836	21036	3036	3236	3636	4036
2'-11 1/2"	3'-0"	914	13 11/16"	1630	2030	2630	2830	21030	3030	3230	3630	4030
				1660	2060	2660	2860	21060	3060	3260	3660	4060

A

Optional Sash Configurations

Available for these heights, and all widths.

Cottage Sash Configuation	Oriel Sash Configuration
CO-2840	OR-2840
CO-2846	OR-2846
CO-2848	OR-2848
CO-2850	OR-2850
CO-2852	OR-2852
CO-2856	OR-2856

2 - Wide
Width Dimensions

Base Code	Jamb Dimension (Frame Size)	Rough Opening	Metric R.O. (mm)
DH2-16	2'-11 1/16"	2'-11 9/16"	903
DH2-20	3'-11 1/16"	3'-11 9/16"	1208
DH2-26	4'-11 1/16"	4'-11 9/16"	1208
DH2-28	5'-3 1/16"	5'-3 9/16"	1411
DH2-210	5'-7 1/16"	5'-7 9/16"	1716
DH2-30	5'-11 1/16"	5'-11 9/16"	1818
DH2-32	6'-3 1/16"	6'-3 9/16"	1919
DH2-36	6'-11 1/16"	6'-11 9/16"	2122
DH2-40	7'-11 1/16"	7'-11 9/16"	2427

3 - Wide
Width Dimensions

Base Code	Jamb Dimension (Frame Size)	Rough Opening	Metric R.O. (mm)
DH3-16	4'-4 5/8"	4'-5 1/8"	1372
DH3-20	5'-10 5/8"	5'-11 1/8"	1807
DH3-26	7'-4 5/8"	7'-5 1/8"	2264
DH3-28	7'-10 5/8"	7'-11 1/8"	2416
DH3-210	8'-4 5/8"	8'-5 1/8"	2569
DH3-30	8'-10 5/8"	8'-11 1/8"	2721
DH3-32	9'-4 5/8"	9'-5 1/8"	2873

Shaded units meet or exceed egress opening requirements per 2015 IBC (International Building Code) minimum dimensions of 20" [508mm] clear opening width, 24" [610mm] clear opening height, 5.7 sq. ft. [5295cm^2] clear opening and floor to bottom of clear opening not to exceed 44" [1118mm] in height.

Verify local or state egress opening sizes with your local building inspector.

Floor to bottom of clear opening dimensions are based on 82" [2083mm] jamb height of Weather Shield French doors and center hinged French doors.

See Opening Specification chart for reference.

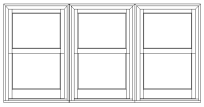
Double Hung Windows (8120)

Jamb Dimension			1'-5 1/2"	1'-11 1/2"	2'-5 1/2"	2'-7 1/2"	2'-9 1/2"	2'-11 1/2"	3'-1 1/2"	3'-5 1/2"	3'-11 1/2"
	Rough Opening		1'-6"	2'-0"	2'-6"	2'-8"	2'-10"	3'-0"	3'-2"	3'-6"	4'-0"
		Metric R.O. (mm)	457	610	762	813	864	914	965	1067	1219
		Glass Size	12"	18"	24"	26"	28"	30"	32"	36"	42"
6'-5 1/2"	6'-6"	1981	34 11/16"	1666	2066	2666	2866	21066	3066	3266	3666	4066
6'-11 1/2"	7'-0"	2134	37 11/16"	1670	2070	2670	2870	21070	3070	3270	3670	4070
7'-5 1/2"	7'-6"	2286	40 11/16"	1676	2076	2676	2876	21076	3076	3276	3676	4076
7'-11 1/2"	8'-0"	2438	43 11/16"	1680	2080	2680	2880	21080	3080	3280	3680	4080

B

2 - Wide
Width Dimensions

Base Code	Jamb Dimension (Frame Size)	Rough Opening	Metric R.O. (mm)
DH2-16	2'-11 1/16"	2'-11 9/16"	903
DH2-20	3'-11 1/16"	3'-11 9/16"	1208
DH2-26	4'-11 1/16"	4'-11 9/16"	1208
DH2-28	5'-3 1/16"	5'-3 9/16"	1411
DH2-210	5'-7 1/16"	5'-7 9/16"	1716
DH2-30	5'-11 1/16"	5'-11 9/16"	1818
DH2-32	6'-3 1/16"	6'-3 9/16"	1919
DH2-36	6'-11 1/16"	6'-11 9/16"	2122
DH2-40	7'-11 1/16"	7'-11 9/16"	2427



3 - Wide
Width Dimensions

Base Code	Jamb Dimension (Frame Size)	Rough Opening	Metric R.O. (mm)
DH3-16	4'-4 5/8"	4'-5 1/8"	1372
DH3-20	5'-10 5/8"	5'-11 1/8"	1807
DH3-26	7'-4 5/8"	7'-5 1/8"	2264
DH3-28	7'-10 5/8"	7'-11 1/8"	2416
DH3-210	8'-4 5/8"	8'-5 1/8"	2569
DH3-30	8'-10 5/8"	8'-11 1/8"	2721
DH3-32	9'-4 5/8"	9'-5 1/8"	2873

Shaded units meet or exceed egress opening requirements per 2015 IBC (International Building Code) minimum dimensions of 20" [508mm] clear opening width, 24" [610mm] clear opening height, 5.7 sq. ft. [5295cm^2] clear opening and floor to bottom of clear opening not to exceed 44" [1118mm] in height.

Verify local or state egress opening sizes with your local building inspector.

Floor to bottom of clear opening dimensions are based on 82" [2083mm] jamb height of Weather Shield French doors and center hinged French doors.

See Opening Specification chart for reference.

WEATHER SHIELD.
WINDOWS & DOORS WINDOW TYPE A AND B

Quick Spec Guide
Premium Series™ Double Hung (8120)

SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES
EXTERIOR FINISH	• White • Cameo • Tan • Desert Tan • Heritage Brown • Adobe • Craftsman Bronze • Brick Red • Hartford Green • Gray Matters • Obsidian • Jet Black	• 3 Radiant Metallic • 45 Designer • 8 Anodized • Custom Color
EXTERIOR TRIM	• Integral Nail Fin	• 7/8" Brickmold • 1-11/16" Brickmold • 1-11/16" Flat Casing • 3-5/16" Flat Casing • Historical Brickmold • 3/4" Sill Nosing • 1" Bull Nose • 1" Full Round Bull Nose • 2" Bull Nose
INTERIOR FINISH	• Natural	• Stained & Sealed – 5 Standard / 10 Designer • Primed • Prefinished White & Black • Poly – 12 Standard / 45 Designer
INTERIOR SPECIES	• Pine	• Oak • Maple • Alder (Character) • White Oak • Cherry • Mahogany • Vertical Grain Fir • Mixed Grain Fir
SIZE	• Width Double Hung and Double Hung Picture Units 1-6, 2-0, 2-6, 2-8, 2-10, 3-0, 3-2, 3-6, 4-0 Double Hung Picture Units 4-6, 5-0, 5-6, 6-0 • Height Double Hung and Double Hung Picture Units 3-0, 3-6, 4-0, 4-6, 4-8, 5-0, 5-2, 5-6, 6-0, 6-6, 7-0, 7-6, 8-0	• Double Hung: Any jamb width: 15" to 59-1/2" • Double Hung Picture Units: Any jamb width: 15" to 119-1/2" • Double Hung: Any jamb height: 29-1/2" to 119-1/2" • Double Hung Picture Units: Any jamb height: 17-1/4" to 119-1/2"
GLAZING	• Low-E Insulating Glass	• Clear IG • Low-E 240 • Zo-e-shield 5 • Zo-e-shield 5 Extreme • Zo-e shield 7 (triple insul) • Zo-e Shield 6 (laminated) • Grey or Bronze Tint • Obscure • Tempered
GRILLES		• GBG: 5/8" Flat or 11/16" Sculptured • SDL: 5/8", 7/8", 1-1/8", 2" • Wood Grille: 7/8"
HARDWARE	• Contemporary Sash Lock • Wood wrapped jamb liner	• Historical Sash Lock • Manual Tilt Latches • Limit Stops • WOCD • Custodial Lock • Sash Lift Handles • Tan or White jamb liner
HARDWARE COLOR	• Tan • Rustic Bronze • White • Black	• Brushed Nickel • Bright Brass
JAMB	• 4-9/16"	• 4-9/16 Min • 12" Max
SCREENS	• Full Screen • No-See-um Mesh	• Half Screen • Aluminum Non-Glare
SCREEN FRAME COLOR	• Color matches exterior unit color	

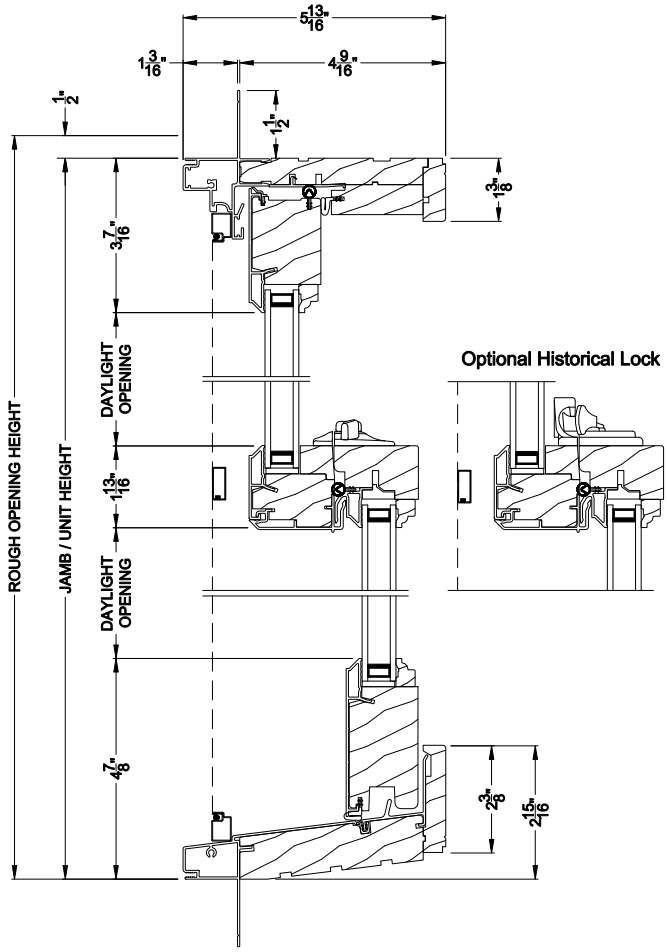
Revised 6/9/22

Weather Shield®

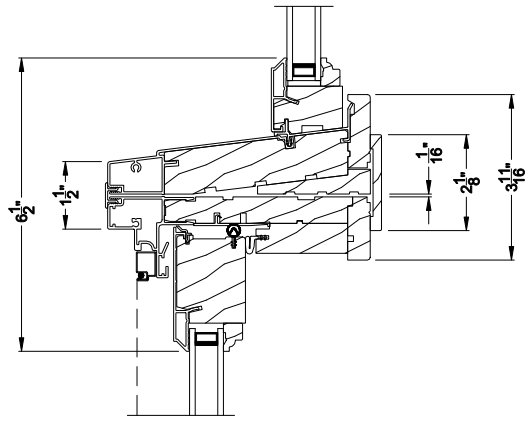
Premium Series™

Double Hung Windows

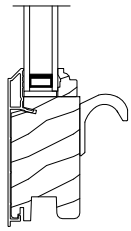
CROSS SECTION DETAILS



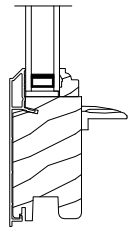
PREMIUM DOUBLE HUNG WINDOW (8120)
Vertical Section



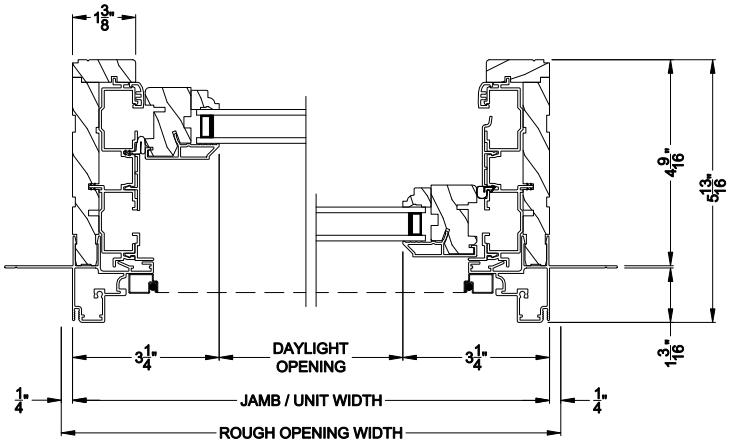
PREMIUM DOUBLE HUNG WINDOW
Horizontal Stack Section - Transom Stack over DH



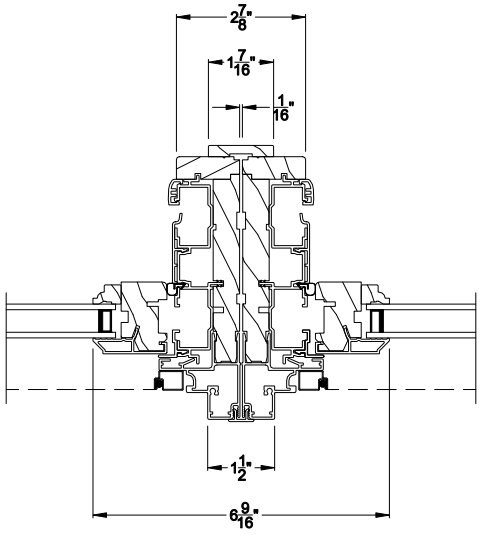
Optional Historical Sash Lift



Optional Contemporary Sash Lift



PREMIUM DOUBLE HUNG WINDOW (8120)
Horizontal Section



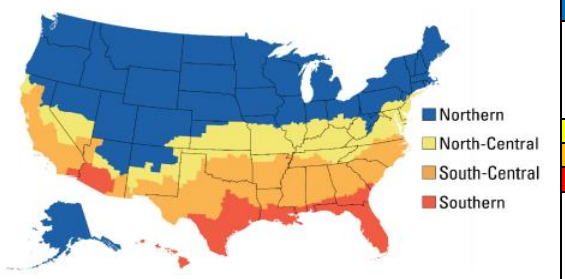
PREMIUM DOUBLE HUNG WINDOW
Vertical Mull Section - DH / DH

Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Thermal Performance Data

Premium Double Hung Windows (8120)

WEATHER SHIELD. WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC	
	Northern	<=0.22	>=0.17	Prescriptive
		=0.23	>=0.35	Equivalent Energy Performance
		=0.24		
		=0.25	>=0.40	
		=0.26		
	North-Central	<=0.25	<=0.40	
	South-Central	<=0.28	<=0.23	
	Southern	<=0.32	<=0.23	

Energy Star Version 7.0 Starting October 2023

Canadian Qualification Criteria	U-Value	or	Energy Rating
	<=1.22		>=34

Air Leakage <= 1.5 L/s/m2

Energy Star Version 5.0 starting January 2020

U-Value
A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

Solar Heat Gain Coefficient (SHGC)
Measures how well a window or door prevents heat from passing through it.
The lower a window or door's SHGC, the less heat it allows to pass through it.

Visible Light Transmittance
The amount of light in the visible portion of the spectrum that passes through a glazing material.

Condensation Resistance Rating
Measures how well a window resists the formation of condensation on the inside surface.
The higher the number the better resistance to condensation.

Energy Rating
A value demonstrating the balance between U-Value, SHGC and air leakage.
The higher the number, the more efficient the product.

R-Value
A measurement of how much a material resists heat transfer.
A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home.
While **R-value** measures resist- ance to heat transfer,**U-value** measures the rate of heat transfer.
In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, **U** = 1/**R and R** = 1/**U**.

[a] Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.
[b] Published values reflect 3mm glass lite thicknesses.

Revised 10/23/23

ENERGY PERFORMANCE DATA

Premium Double Hung Windows (8120)

Grille Option	Glazing thickness	[a]NFRC Total Unit Calculations [b]Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 7.0				CANADIAN ENERGY PEFORMANCE DATA				CANADA ENERGY STAR v 5.0
								N	NC	SC	S	U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/ Exfiltration Average	Energy Rating	
No GIA or SDL	3/4"	Clear Insul	WEA-N-282-00952-00001	0.47	0.56	0.59	46					2.67	1.5	0.04	14	
	3/4"	Insul Low-E	WEA-N-282-00953-00001	0.35	0.30	0.51	51					1.99	1.5	0.04	14	
	3/4"	Insul Low E w/Argon	WEA-N-282-00961-00001	0.32	0.30	0.51	54					1.82	1.5	0.04	17	
	3/4"	Passive Solar	WEA-N-282-00956-00001	0.35	0.49	0.56	51					1.99	1.5	0.04	25	
	3/4"	Passive Solar w/Argon	WEA-N-282-00964-00001	0.32	0.49	0.56	54					1.82	1.5	0.04	28	
	3/4"	Passive Solar Extreme	WEA-N-282-00957-00001	0.30	0.45	0.55	40					1.70	1.5	0.04	29	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-282-00965-00001	0.28	0.45	0.55	43					1.59	1.5	0.04	31	
	3/4"	Zo-e-shield 5	WEA-N-282-00954-00001	0.34	0.20	0.46	52					1.93	1.5	0.04	9	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00962-00001	0.31	0.20	0.46	55				Y	1.76	1.5	0.04	13	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00955-00001	0.29	0.20	0.45	41				Y	1.65	1.5	0.04	15	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00963-00001	0.27	0.19	0.45	44			Y	Y	1.53	1.5	0.04	17	
	1"	Zo-e-shield 6	WEA-N-282-01002-00001	0.34	0.20	0.46	53					1.93	1.5	0.04	9	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-282-01010-00001	0.31	0.20	0.46	56				Y	1.76	1.5	0.04	13	
	1"	Zo-e SafeGuard Certified	WEA-N-282-01007-00001	0.34	0.20	0.45	54					1.93	1.5	0.04	9	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-01015-00001	0.31	0.19	0.45	56				Y	1.76	1.5	0.04	12	
	1"	Zo-e-shield 7	WEA-N-282-00968-00001	0.28	0.18	0.37	62			Y	Y	1.59	1.5	0.04	15	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-282-00972-00001	0.25	0.18	0.37	64		Y	Y	Y	1.42	1.5	0.04	19	
	3/4"	Insul Low-E 240	WEA-N-282-00958-00001	0.35	0.19	0.29	51					1.99	1.5	0.04	7	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00966-00001	0.32	0.18	0.29	54				Y	1.82	1.5	0.04	10	
	3/4"	Insul Low-E 340	WEA-N-282-00959-00001	0.34	0.14	0.28	52					1.93	1.5	0.04	6	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00967-00001	0.31	0.13	0.28	55				Y	1.76	1.5	0.04	9	
	3/4"	Bronze Low E	WEA-N-282-00953-00011	0.35	0.29	0.38	51					1.99	1.5	0.04	13	
	3/4"	Bronze Low E w/Argon	WEA-N-282-00961-00011	0.32	0.28	0.38	54					1.82	1.5	0.04	16	
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-282-00952-00002	0.47	0.50	0.52	46					2.67	1.5	0.04	10	
	3/4"	Insul Low-E	WEA-N-282-00953-00002	0.35	0.27	0.45	51					1.99	1.5	0.04	12	
	3/4"	Insul Low E w/Argon	WEA-N-282-00961-00002	0.32	0.27	0.45	54					1.82	1.5	0.04	16	
	3/4"	Passive Solar	WEA-N-282-00956-00002	0.35	0.44	0.50	51					1.99	1.5	0.04	22	
	3/4"	Passive Solar w/Argon	WEA-N-282-00964-00002	0.32	0.44	0.50	54					1.82	1.5	0.04	25	
	3/4"	Passive Solar Extreme	WEA-N-282-00957-00002	0.30	0.40	0.49	40					1.70	1.5	0.04	26	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-282-00965-00002	0.28	0.40	0.49	43					1.59	1.5	0.04	28	
	3/4"	Zo-e-shield 5	WEA-N-282-00954-00002	0.34	0.18	0.41	52					1.93	1.5	0.04	8	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00962-00002	0.31	0.18	0.41	55				Y	1.76	1.5	0.04	12	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00955-00002	0.29	0.18	0.40	41				Y	1.65	1.5	0.04	14	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00963-00002	0.27	0.18	0.40	44			Y	Y	1.53	1.5	0.04	17	
	1"	Zo-e-shield 6	WEA-N-282-01002-00002	0.34	0.18	0.40	53					1.93	1.5	0.04	8	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-282-01010-00002	0.31	0.18	0.40	56				Y	1.76	1.5	0.04	12	
	1"	Zo-e SafeGuard Certified	WEA-N-282-01007-00002	0.34	0.18	0.40	54					1.93	1.5	0.04	8	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-01015-00002	0.31	0.18	0.40	56				Y	1.76	1.5	0.04	12	
	1"	Zo-e-shield 7	WEA-N-282-00969-00001	0.28	0.17	0.33	62			Y	Y	1.59	1.5	0.04	15	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-282-00973-00001	0.25	0.16	0.33	64		Y	Y	Y	1.42	1.5	0.04	18	
	3/4"	Insul Low-E 240	WEA-N-282-00958-00002	0.35	0.17	0.25	51					1.99	1.5	0.04	6	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00966-00002	0.32	0.17	0.25	54				Y	1.82	1.5	0.04	10	
	3/4"	Insul Low-E 340	WEA-N-282-00959-00002	0.34	0.12	0.25	52					1.93	1.5	0.04	5	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00967-00002	0.31	0.12	0.25	55				Y	1.76	1.5	0.04	8	
	3/4"	Bronze Low E	WEA-N-282-00953-00012	0.35	0.26	0.34	51					1.99	1.5	0.04	11	
	3/4"	Bronze Low E w/Argon	WEA-N-282-00961-00012	0.32	0.26	0.34	54					1.82	1.5	0.04	15	
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-282-00952-00003	0.47	0.44	0.46	46					2.67	1.5	0.04	7	
	3/4"	Insul Low-E	WEA-N-282-00953-00003	0.35	0.24	0.40	51					1.99	1.5	0.04	10	
	3/4"	Insul Low E w/Argon	WEA-N-282-00961-00003	0.32	0.24	0.40	54					1.82	1.5	0.04	14	
	3/4"	Passive Solar	WEA-N-282-00956-00003	0.35	0.39	0.44	51					1.99	1.5	0.04	19	
	3/4"	Passive Solar w/Argon	WEA-N-282-00964-00003	0.32	0.39	0.44	54					1.82	1.5	0.04	23	
	3/4"	Passive Solar Extreme	WEA-N-282-00957-00003	0.30	0.35	0.43	40					1.70	1.5	0.04	23	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-282-00965-00003	0.28	0.36	0.43	43					1.59	1.5	0.04	26	
	3/4"	Zo-e-shield 5	WEA-N-282-00954-00003	0.34	0.16	0.36	52					1.93	1.5	0.04	7	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00962-00003	0.31	0.16	0.36	55				Y	1.76	1.5	0.04	11	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00955-00003	0.29	0.16	0.35	41				Y	1.65	1.5	0.04	13	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00963-00003	0.27	0.16	0.35	44			Y	Y	1.53	1.5	0.04	16	
	1"	Zo-e-shield 6	WEA-N-282-01002-00003	0.34	0.16	0.36	53					1.93	1.5	0.04	7	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-282-01010-00003	0.31	0.16	0.36	56				Y	1.76	1.5	0.04	11	
	1"	Zo-e SafeGuard Certified	WEA-N-282-01007-00003	0.34	0.16	0.35	54					1.93	1.5	0.04	7	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-01015-00003	0.31	0.16	0.35	56				Y	1.76	1.5	0.04	11	
	1"	Zo-e-shield 7	WEA-N-282-00969-00002	0.28	0.15	0.29	62			Y	Y	1.59	1.5	0.04	14	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-282-00973-00002	0.25	0.15	0.29	64		Y	Y	Y	1.42	1.5	0.04	17	
	3/4"	Insul Low-E 240	WEA-N-282-00958-00003	0.35	0.15	0.22	51					1.99	1.5	0.04	5	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00966-00003	0.32	0.15	0.22	54				Y	1.82	1.5	0.04	9	
	3/4"	Insul Low-E 340	WEA-N-282-00959-00003	0.34	0.11	0.22	52					1.93	1.5	0.04	4	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00967-00003	0.31	0.11	0.22	55				Y	1.76	1.5	0.04	8	
	3/4"	Bronze Low E	WEA-N-282-00953-00013	0.35	0.23	0.30	51					1.99	1.5	0.04	10	
	3/4"	Bronze Low E w/Argon	WEA-N-282-00961-00013	0.32	0.23	0.30	54				Y	1.82	1.5	0.04	13	

WEATHER SHIELD.
WINDOWS & DOORS

WINDOW TYPE C

Quick Spec Guide
Premium Series™ Direct Set (8306)

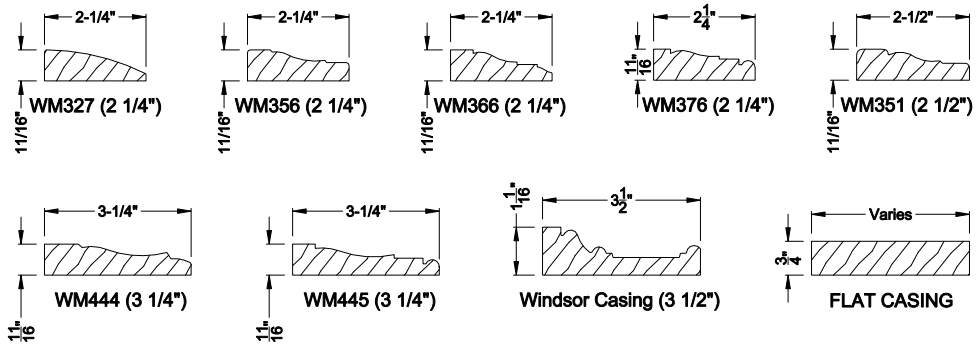
SPECIFICATION	STANDARD FEATURES	OPTIONAL FEATURES
EXTERIOR FINISH	• White • Cameo • Tan • Desert Tan • Heritage Brown • Adobe • Craftsman Bronze • Brick Red • Hartford Green • Gray Matters • Obsidian • Jet Black	• 3 Radiant Metallic • 45 Designer • 8 Anodized • Custom Color
EXTERIOR TRIM	• Integral Nail Fin	• 7/8” Brickmold • 1-11/16” Brickmold • 1-11/16” Flat Casing • 3-5/16” Flat Casing • Historical Brickmold • 3/4" Sill Nosing • 1” Bull Nose • 1” Full Round Bull Nose • 2” Bull Nose
INTERIOR FINISH	• Natural	• Stained & Sealed – 5 Standard / 10 Designer • Primed • Prefinished White & Black • Poly – 12 Standard / 45 Designer
INTERIOR SPECIES	• Pine	• Oak • Maple • Alder (Character) • White Oak • Cherry • Mahogany • Vertical Grain Fir • Mixed Grain Fir
SHAPE/SIZE	Shapes available include, Diamond, Eyebrow, Eyebrow w/ legs, Flat Top Pentagon, Flat Top Trapezoid, Full Circle, Gothic, Gothic w/ legs, Half Circle, Half Circle w/ legs, Hexagon, Octagon, Parallelogram, Pentagon, Quarter Circle, Quarter Circle w/ legs, Quarter Eyebrow, Quarter Eyebrow w/ legs, Rectangle, Right Triangle, Trapezoid, Triangle C: 24x24	• Custom jamb sizes from 7-13/16” to 142” • Minimum Radius is 12” • Minimum Corner Angle is 18 degrees:
GLAZING	• Low-E Insulating Glass	• Clear IG • Low-E 240 • Zo-e-shield 5 • Zo-e-shield 5 Extreme • Zo-e shield 7 (triple insul) • Zo-e Shield 6 (laminated) • Grey or Bronze Tint • Obscure • Tempered
GRILLES		• GBG: 5/8” Flat or 11/16” Sculptured • SDL: 5/8”, 7/8”, 1-1/8”, 2” • Wood Grille: 7/8”
SASH		• Casement Simulated Sash • Double Hung Simulated Sash
JAMB	• 4-9/16”	• 3-1/16 Min • 12” Max

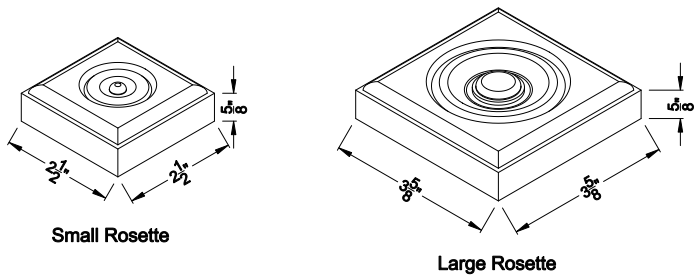
Revised 6/9/22

Weather Shield®
Premium Series™

Options
CROSS SECTION DETAILS

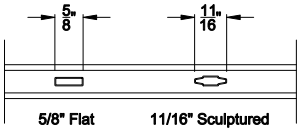
Interior Wood Trim Options



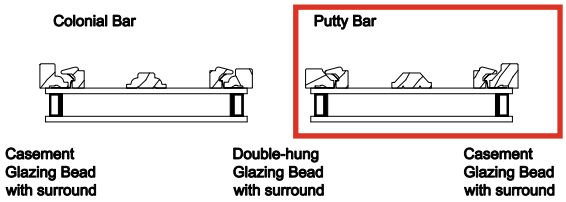


Divided Lite Options

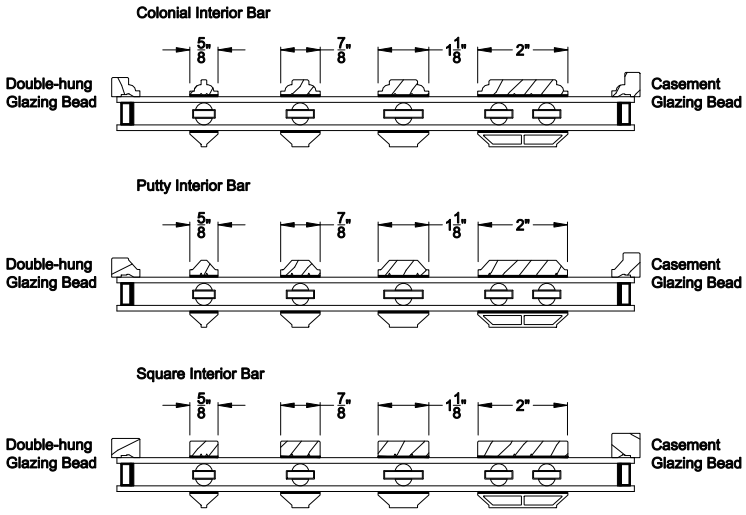
Grilles Between the Glass



Wood Perimeter Grill



Simulated Divided Lites

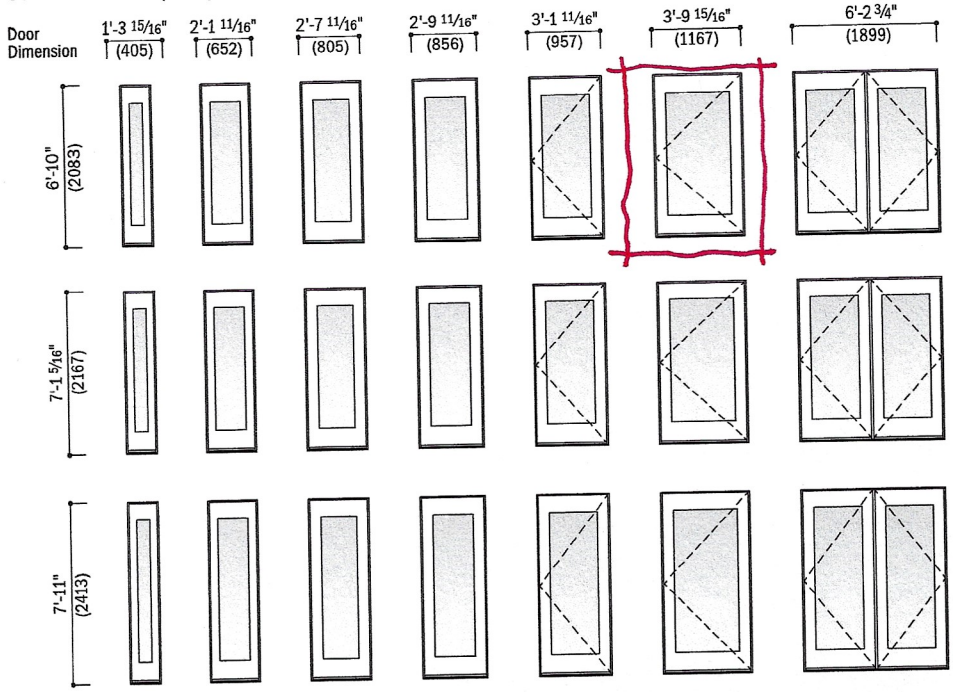


Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

ANDERSEN WINDOWS & DOORS

Table of Commercial Outswing Entry Door and Sidelight Sizes

Scale 1/8" = 1'-0" (1:96)



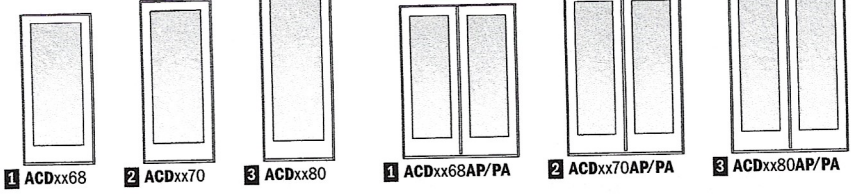
Check local building codes, including the Americans with Disabilities Act (ADA) accessibility.

Custom-size doors are available in 1/8" (3) increments.

Standard sizes shown. Available in both 10" (254) and 12" (305)bottom rail heights. For additional stile widths and additional options contact your Andersen supplier. This door has a limited water rating (LW) due to the low-threshold sill. See page 205 for threshold and bottom rail details. Handle and lock are located between 34" (864) and 48" (1219).

- Dimensions in parentheses are in millimeters.

ANDERSEN WINDOWS & DOORS



1 ACDxx68 | 2 ACDxx70 | 3 ACDxx80 | 1 ACDxx68AP/PA | 2 ACDxx70AP/PA | 3 ACDxx80AP/PA

Custom-size doors are available in 1/8" (3) increments.

Available in custom designed panels. Stationary doors are also available (i.e. 3068**S** or 4068**SS**).

Commercial Outswing Entry Door Dimensions and Specifications

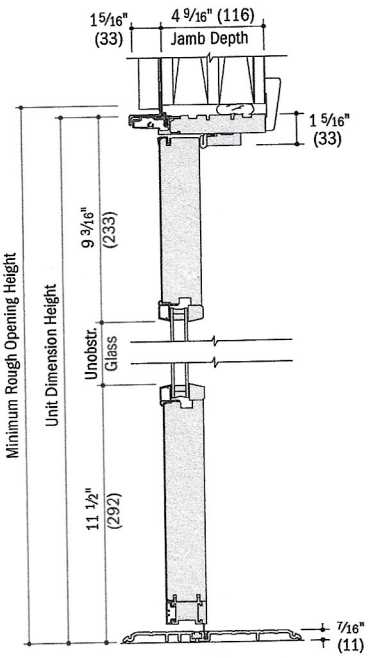
Door Number	Number of Panels Open*	Min. Rough Opening				Clear Opening Area Sq. Ft./(m²)	Clear Opening Maximums			Glass Area Sq. Ft./(m²)	Vent Area Sq. Ft./(m²)	Overall Door Area Sq. Ft./(m²)
		Width Inches/(mm)	Height Inches/(mm)	Width Inches/(mm)	Height Inches/(mm)		90° Width Inches/(mm)	Full Width Inches/(mm)	Height Inches/(mm)			
ACD3068	1	37 11/16" (957)	82" (2083)	38 3/16" (970)	82 1/2" (2096)	19.45 (1.81)	33 1/8" (841)	35 1/16" (891)	79 7/8" (2029)	10.60 (0.98)	19.45 (1.81)	21.46 (1.99)
ACD3668	1	43 11/16" (1110)	82" (2083)	44 3/16" (1122)	82 1/2" (2096)	22.78 (2.12)	39 1/8" (994)	41 1/16" (1043)	79 7/8" (2029)	13.15 (1.22)	22.78 (2.12)	24.88 (2.31)
ACD3868	1	45 15/16" (1167)	82" (2083)	46 7/16" (1180)	82 1/2" (2180)	24.02 (2.23)	41 3/8" (1051)	43 5/16" (1100)	79 7/8" (2029)	14.11 (1.31)	24.02 (2.23)	26.16 (2.43)
ACD3070	1	37 11/16" (957)	85 5/16" (2167)	38 3/16" (970)	85 13/16" (2180)	20.26 (1.88)	33 1/8" (841)	35 1/16" (891)	83 3/16" (2113)	11.17 (1.04)	20.26 (1.88)	22.33 (2.07)
ACD3670	1	43 11/16" (1110)	85 5/16" (2167)	44 3/16" (1122)	85 13/16" (2180)	23.72 (2.20)	39 1/8" (994)	41 1/16" (1043)	83 3/16" (2113)	13.86 (1.29)	23.72 (2.20)	25.88 (2.40)
ACD3870	1	45 15/16" (1167)	85 5/16" (2167)	46 7/16" (1180)	85 13/16" (2426)	25.02 (2.32)	41 3/8" (1051)	43 5/16" (1100)	83 3/16" (2113)	14.87 (1.38)	25.02 (2.32)	27.22 (2.53)
ACD3080	1	37 11/16" (957)	95" (2413)	38 3/16" (970)	95 1/2" (2426)	22.61 (2.10)	33 1/8" (841)	35 1/16" (891)	92 7/8" (2359)	12.84 (1.19)	22.61 (2.10)	24.86 (2.31)
ACD3680	1	43 11/16" (1110)	95" (2413)	44 3/16" (1122)	95 1/2" (2426)	26.48 (2.46)	39 1/8" (994)	41 1/16" (1043)	92 7/8" (2359)	15.94 (1.48)	26.48 (2.46)	28.82 (2.68)
ACD3880	1	45 15/16" (1167)	95" (2413)	46 7/16" (1180)	95 1/2" (2096)	27.94 (2.60)	41 3/8" (1051)	43 5/16" (1100)	92 7/8" (2359)	17.10 (1.59)	27.94 (2.60)	30.31 (2.82)
ACD4068	2	50 3/4" (1289)	82" (2083)	51 1/4" (1302)	82 1/2" (2096)	26.69 (2.48)	44 3/16" (1122)	48 1/8" (1222)	79 7/8" (2029)	12.46 (1.16)	26.69 (2.48)	28.90 (2.68)
ACD4068	1	50 3/4" (1289)	82" (2083)	51 1/4" (1302)	82 1/2" (2096)	12.76 (1.19)	21" (533)	23" (584)	79 7/8" (2029)	12.46 (1.16)	12.76 (1.19)	28.90 (2.68)
ACD5068	2	62 3/4" (1594)	82" (2083)	63 1/4" (1607)	82 1/2" (2096)	33.35 (3.10)	56 3/16" (1427)	60 1/8" (1527)	79 7/8" (2029)	16.08 (1.49)	33.35 (3.10)	35.73 (3.32)
ACD5068	1	62 3/4" (1594)	82" (2083)	63 1/4" (1607)	82 1/2" (2096)	16.09 (1.49)	27" (686)	29" (737)	79 7/8" (2029)	16.08 (1.49)	16.09 (1.49)	35.73 (3.32)
ACD5468	2	66 3/4" (1695)	82" (2083)	67 1/4" (1708)	82 1/2" (2096)	35.57 (3.30)	60 3/16" (1529)	64 1/8" (1629)	79 7/8" (2029)	17.79 (1.65)	35.57 (3.30)	38.01 (3.53)
ACD5468	1	66 3/4" (1695)	82" (2083)	67 1/4" (1708)	82 1/2" (2096)	17.20 (1.60)	29" (737)	31" (787)	79 7/8" (2029)	17.79 (1.65)	17.20 (1.60)	38.01 (3.53)
ACD6068	2	74 3/4" (1899)	82" (2083)	75 1/4" (1911)	82 1/2" (2096)	40.01 (3.72)	68 3/16" (1732)	72 1/8" (1832)	79 7/8" (2029)	21.20 (1.97)	40.01 (3.72)	42.57 (3.95)
ACD6068	1	74 3/4" (1899)	82" (2083)	75 1/4" (1911)	82 1/2" (2180)	19.41 (1.80)	33" (838)	35" (889)	79 7/8" (2029)	21.20 (1.97)	19.41 (1.80)	42.57 (3.95)
ACD4070	2	50 3/4" (1289)	85 5/16" (2167)	51 1/4" (1302)	85 13/16" (2180)	27.80 (2.58)	44 3/16" (1122)	48 1/8" (1222)	83 3/16" (2113)	13.13 (1.22)	27.80 (2.58)	30.07 (2.79)
ACD4070	1	50 3/4" (1289)	85 5/16" (2167)	51 1/4" (1302)	85 13/16" (2180)	13.29 (1.23)	21" (533)	23" (584)	83 3/16" (2113)	13.13 (1.22)	13.29 (1.23)	30.07 (2.79)
ACD5070	2	62 3/4" (1594)	85 5/16" (2167)	63 1/4" (1607)	85 13/16" (2180)	34.73 (3.23)	56 3/16" (1427)	60 1/8" (1527)	83 3/16" (2113)	16.95 (1.57)	34.73 (3.23)	37.18 (3.45)
ACD5070	1	62 3/4" (1594)	85 5/16" (2167)	63 1/4" (1607)	85 13/16" (2180)	16.75 (1.56)	27" (686)	29" (737)	83 3/16" (2113)	16.95 (1.57)	16.75 (1.56)	37.18 (3.45)
ACD5470	2	66 3/4" (1695)	85 5/16" (2167)	67 1/4" (1708)	85 13/16" (2180)	37.04 (3.44)	60 3/16" (1529)	64 1/8" (1629)	83 3/16" (2113)	18.75 (1.74)	37.04 (3.44)	39.55 (3.67)
ACD5470	1	66 3/4" (1695)	85 5/16" (2167)	67 1/4" (1708)	85 13/16" (2180)	17.91 (1.66)	29" (737)	31" (787)	83 3/16" (2113)	18.75 (1.74)	17.91 (1.66)	39.55 (3.67)
ACD6070	2	74 3/4" (1899)	85 5/16" (2167)	75 1/4" (1911)	85 13/16" (2180)	41.67 (3.87)	68 3/16" (1732)	72 1/8" (1832)	83 3/16" (2113)	22.34 (2.08)	41.67 (3.87)	44.29 (4.11)
ACD6070	1	74 3/4" (1899)	85 5/16" (2167)	75 1/4" (1911)	85 13/16" (2426)	20.22 (1.88)	33" (838)	35" (889)	83 3/16" (2113)	22.34 (2.08)	20.22 (1.88)	44.29 (4.11)
ACD4080	2	50 3/4" (1289)	95" (2413)	51 1/4" (1302)	95 1/2" (2426)	31.04 (2.88)	44 3/16" (1122)	48 1/8" (1222)	92 7/8" (2359)	15.10 (1.40)	31.04 (2.88)	33.48 (3.11)
ACD4080	1	50 3/4" (1289)	95" (2413)	51 1/4" (1302)	95 1/2" (2426)	14.83 (1.38)	21" (533)	23" (584)	92 7/8" (2359)	15.10 (1.40)	14.83 (1.38)	33.48 (3.11)
ACD5080	2	62 3/4" (1594)	95" (2413)	63 1/4" (1607)	95 1/2" (2426)	38.78 (3.60)	56 3/16" (1427)	60 1/8" (1527)	92 7/8" (2359)	19.49 (1.81)	38.78 (3.60)	41.40 (3.85)
ACD5080	1	62 3/4" (1594)	95" (2413)	63 1/4" (1607)	95 1/2" (2426)	18.70 (1.74)	27" (686)	29" (737)	92 7/8" (2359)	19.49 (1.81)	18.70 (1.74)	41.40 (3.85)
ACD5480	2	66 3/4" (1695)	95" (2413)	67 1/4" (1708)	95 1/2" (2426)	41.36 (3.84)	60 3/16" (1529)	64 1/8" (1629)	92 7/8" (2359)	21.56 (2.00)	41.36 (3.84)	44.04 (4.09)
ACD5480	1	66 3/4" (1695)	95" (2413)	67 1/4" (1708)	95 1/2" (2426)	19.99 (1.86)	29" (737)	31" (787)	92 7/8" (2359)	21.56 (2.00)	19.99 (1.86)	44.04 (4.09)
ACD6080	2	74 3/4" (1899)	95" (2413)	75 1/4" (1911)	95 1/2" (2426)	46.52 (4.32)	68 3/16" (1732)	72 1/8" (1832)	92 7/8" (2359)	25.69 (2.39)	46.52 (4.32)	49.31 (4.58)
ACD6080	1	74 3/4" (1899)	95" (2413)	75 1/4" (1911)	95 1/2" (2426)	22.57 (2.10)	33" (838)	35" (889)	92 7/8" (2359)	25.69 (2.39)	22.57 (2.10)	49.31 (4.58)

- "Door Dimension" always refers to outside frame to frame dimension.
- **"Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Dimensions in parentheses are in millimeters or square meters.

*For two-panel patio doors with one panel open, clear opening is based on active panel being open and passive panel being closed.

Commercial Outswing Entry Door Details

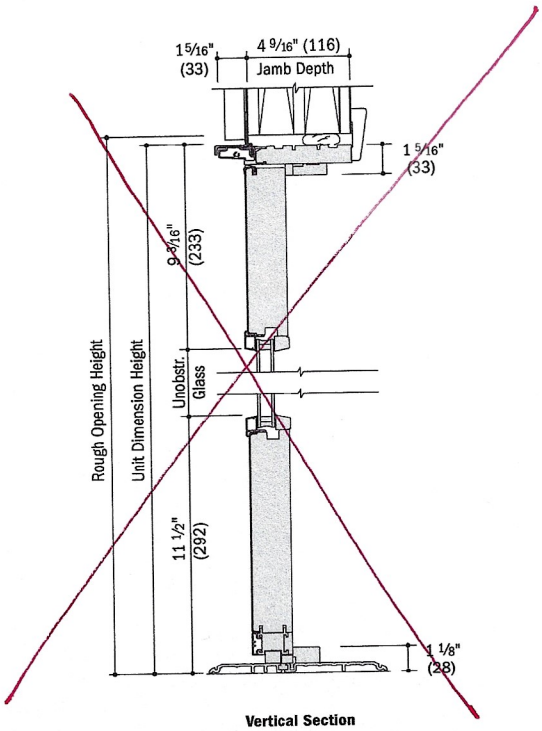
Scale 1½" (38) = 1'-0" (305) – 1:8



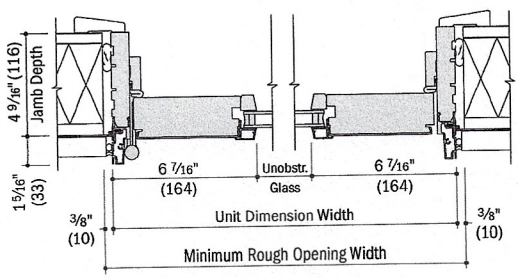
Vertical Section

Sash-Set Commercial Outswing Entry Door Sidelight Detail

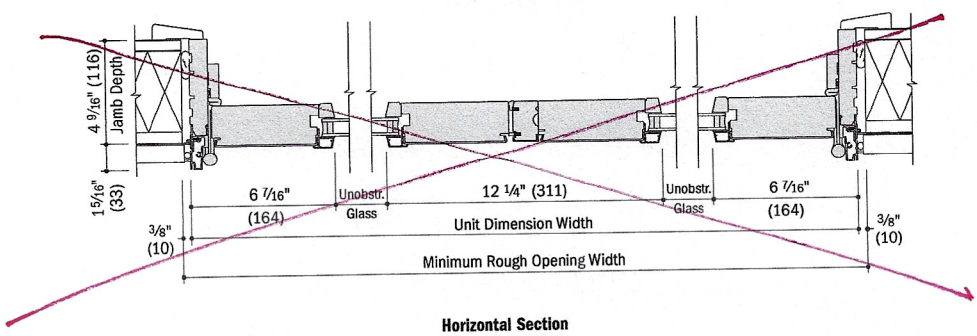
Scale 1½" (38) = 1'-0" (305) – 1:8



Vertical Section



Horizontal Section



Horizontal Section
Two-Panel

- 4 9/16" (116) jamb depth measurements are from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to unit installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.
- Clad details shown, wood also available.

ENTRY DOORS PRODUCT PERFORMANCE

Andersen® NFRC Certified Total Unit Performance *(continued)*

*For current performance information, please visit **nfrc.org**.*

Andersen® Product	High-Performance Dual-Pane Glass Type		U-Factor[1]	SHGC[2]	VT[3]
Residential Outswing Entry Door Sidelights* Arch & Rectangular AND-N-136	Low-E4®	Without Grilles	0.34	0.19	0.31
		Simulated Divided Light Grilles	0.34	0.15	0.24
		Finelight™ Grilles	0.35	0.17	0.27
		Full Divided Light Grilles	0.35	0.15	0.24
	Low-E4® w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E4® Sun	Without Grilles	0.34	0.12	0.17
		Simulated Divided Light Grilles	0.34	0.10	0.13
		Finelight™ Grilles	0.35	0.11	0.15
		Full Divided Light Grilles	0.35	0.10	0.13
	Low-E4® SmartSun™	Without Grilles	0.33	0.13	0.28
		Simulated Divided Light Grilles	0.33	0.11	0.21
		Finelight™ Grilles	0.34	0.12	0.25
		Full Divided Light Grilles	0.34	0.11	0.21
	Low-E4® SmartSun™ w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
Commercial Rectangular Outswing Entry Door* AND-N-139	Low-E4®	Without Grilles	0.33	0.21	0.35
		Simulated Divided Light Grilles	0.33	0.16	0.24
		Finelight™ Grilles	0.35	0.18	0.29
		Full Divided Light Grilles	0.34	0.16	0.24
	Low-E4® w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E4® Sun	Without Grilles	0.34	0.13	0.19
		Simulated Divided Light Grilles	0.34	0.10	0.14
		Finelight™ Grilles	0.35	0.12	0.16
		Full Divided Light Grilles	0.35	0.10	0.14
	Low-E4® SmartSun™	Without Grilles	0.33	0.15	0.31
		Simulated Divided Light Grilles	0.33	0.11	0.22
		Finelight™ Grilles	0.34	0.13	0.26
		Full Divided Light Grilles	0.34	0.11	0.22
	Low-E4® SmartSun™ w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
Commercial Outswing Entry Door Sidelights* Rectangular AND-N-144	Low-E4®	Without Grilles	0.35	0.19	0.30
		Simulated Divided Light Grilles	0.35	0.15	0.22
		Finelight™ Grilles	0.36	0.16	0.26
		Full Divided Light Grilles	0.36	0.15	0.22
	Low-E4® w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-
	Low-E4® Sun	Without Grilles	0.35	0.12	0.17
		Simulated Divided Light Grilles	0.35	0.10	0.12
		Finelight™ Grilles	0.36	0.11	0.14
		Full Divided Light Grilles	0.36	0.10	0.12
	Low-E4® SmartSun™	Without Grilles	0.34	0.13	0.27
		Simulated Divided Light Grilles	0.34	0.10	0.20
		Finelight™ Grilles	0.35	0.11	0.23
		Full Divided Light Grilles	0.35	0.10	0.20
	Low-E4® SmartSun™ w/HeatLock®	Without Grilles	-	-	-
		Simulated Divided Light Grilles	-	-	-
		Finelight™ Grilles	-	-	-
		Full Divided Light Grilles	-	-	-

• "Low-E4®", "Low-E4® SmartSun™", "Low-E4® Sun" and HeatLock® are Andersen trademarks for "Low-E" glass. 1) U-Factor defines the amount of heat loss through the total unit in BTU/hr/ft².°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass. Use of tempered glass can increase U-Factor ratings. See andersenwindows.com/nfrc for specific performance values. Door values represent tempered glass. 2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product. 3) Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

• NFRC ratings are based on modeling by a third-party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

• This data is accurate as of January 2018. Due to ongoing product changes, updated test results, or new industry standards or requirements, this data may change over time. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on unit size, use of tempered glass, different grille options, glass for high altitudes, etc.

• Values are for single units with given pane thickness and 3/4" (19mm) grilles for windows and 1" (25mm) grilles for door products.

*Ratings for product with 4 3/4" (121mm) stile widths. Ratings for Springline™ entry doors and additional stile widths can be found at andersenwindows.com/nfrc.

CANTELON RESIDENCE

ISSUE: **HISTORIC DISTRICT COMMISSION**
RELEASE DATE: **DECEMBER 16, 2025**

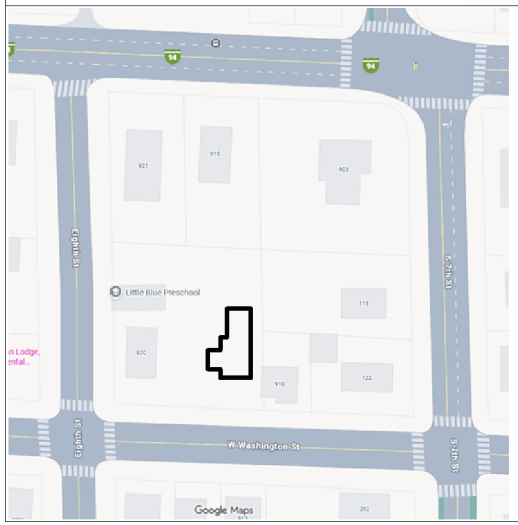
PROJECT & BUILDING INFORMATION

HISTORICAL DISTRICT	Old West Side
ZONING CODE	R2A
FLOOD PLAIN	No
FLOODWAY	No
USE/OCCUPANCY	Group R, Residential
BUILDING CONSTRUCTION	Type VB
NUMBER OF STORIES	2 Above Grade, 1 Story Below Grade
BUILDING HEIGHT	24' -11"
BUILDING FOOTPRINT	2382 SF

SHEET INDEX

Sheet Number	Sheet Name
H0.0	COVER SHEET
HX1.0	EXISTING SITE PLAN
HX1.1	EXISTING STREETSCAPE
HP1.0	PROPOSED SITE PLAN
HP2.0	BASEMENT LEVEL PLAN
HP2.1	BASEMENT LEVEL PLAN
HP2.2	BASEMENT LEVEL PLAN
HP3.1	EXTERIOR ELEVATIONS
HP3.2	NORTH ELEVATION
HP3.3	EAST ELEVATION
HP3.4	SOUTH ELEVATION
HP4.1	3-D VIEWS
HP4.2	3-D VIEWS
HP5.1	WINDOW SCHEDULE

VICINITY MAP



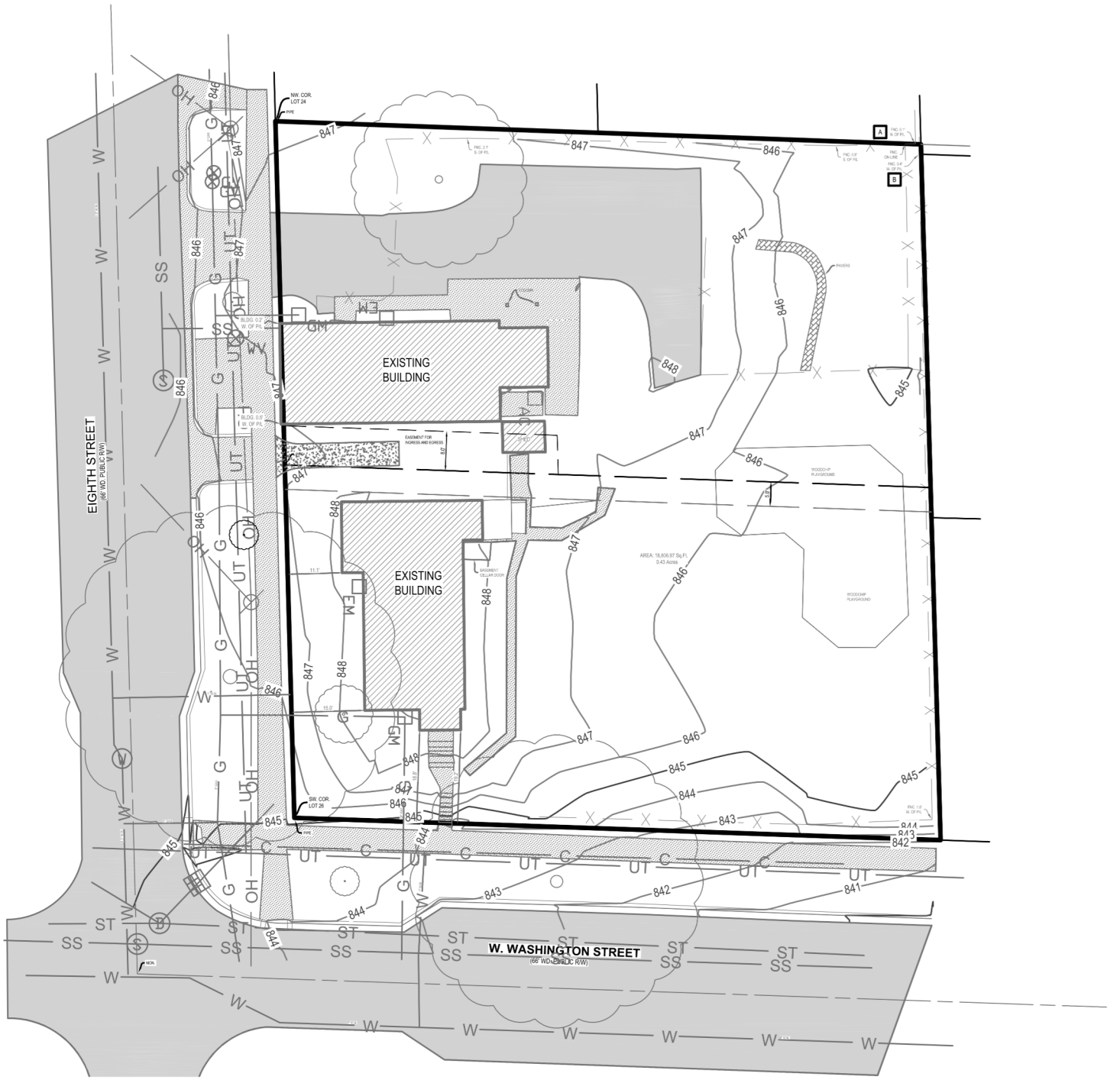
H0.0
COVER SHEET

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103



0' 15' 30' 60'

SCALE: 1" = 30'

HX1.0

EXISTING SITE PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

View looking North from W. Washington Street

View looking North West from W. Washington Street

View looking North East

View looking North West

HX1.1

EXISTING STREETSCAPE

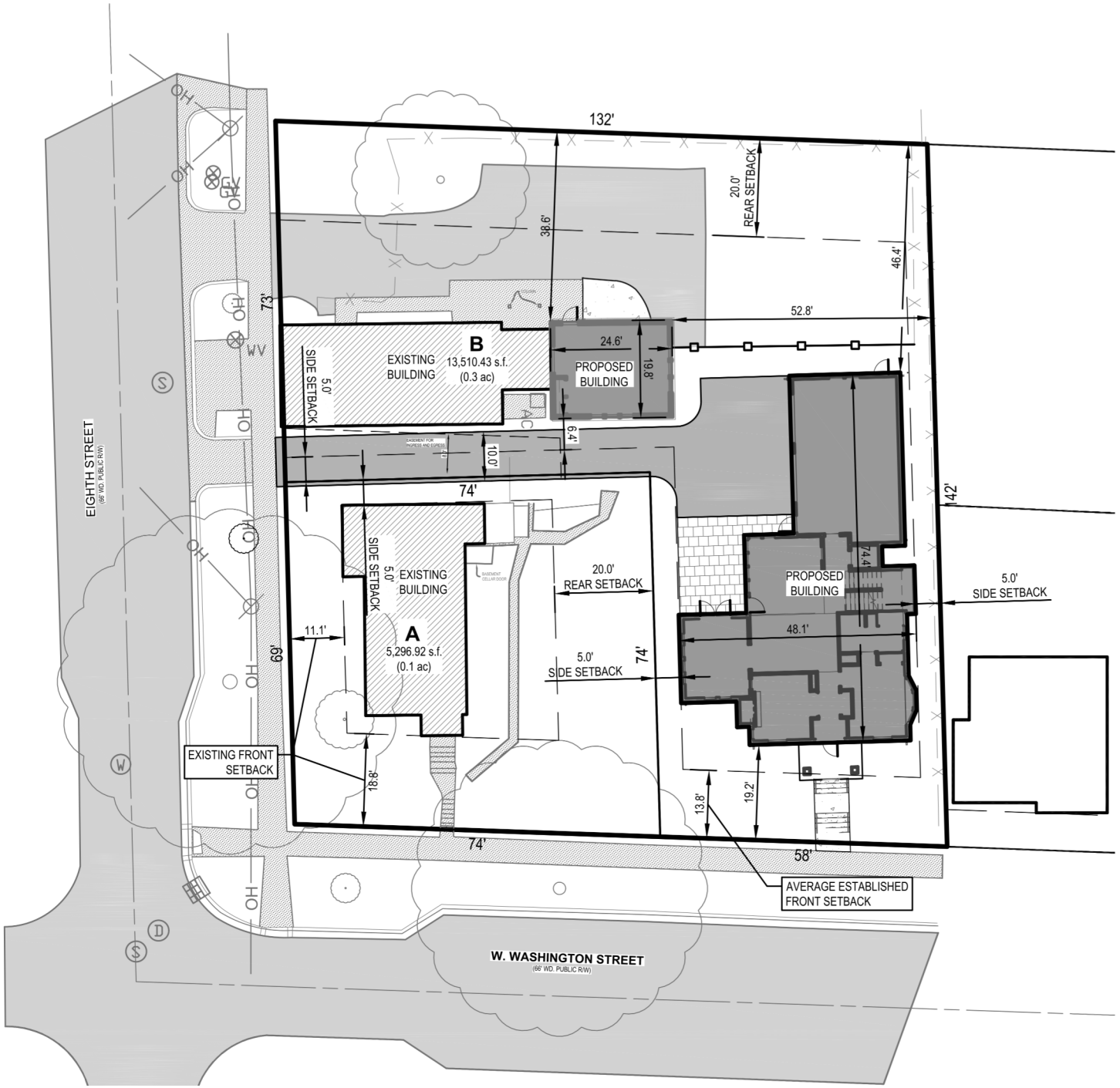
AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103



HP1.0

PROPOSED SITE PLAN

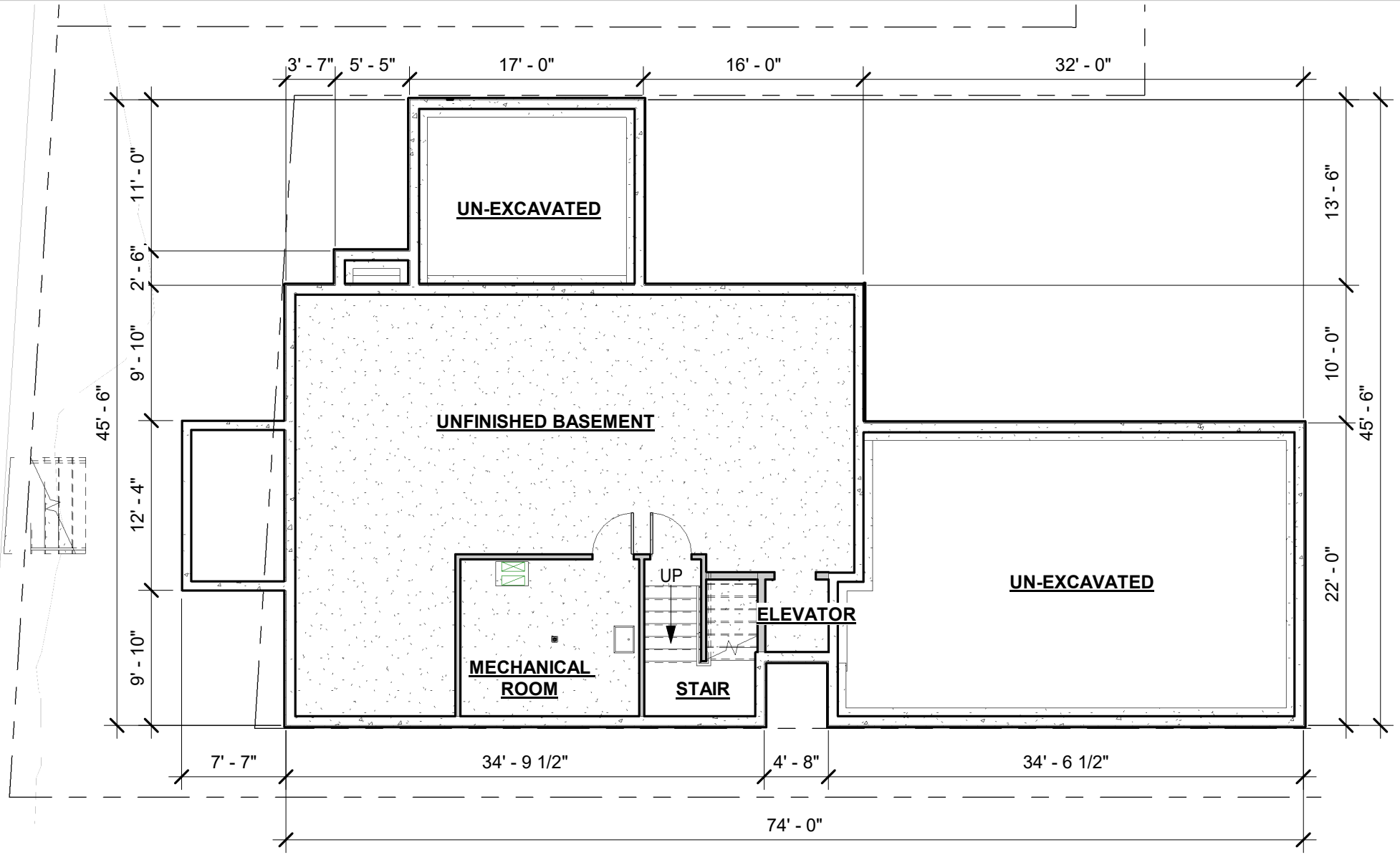
AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103



1 PROPOSED BASEMENT LEVEL PLAN
1" = 10'-0"

HP2.0

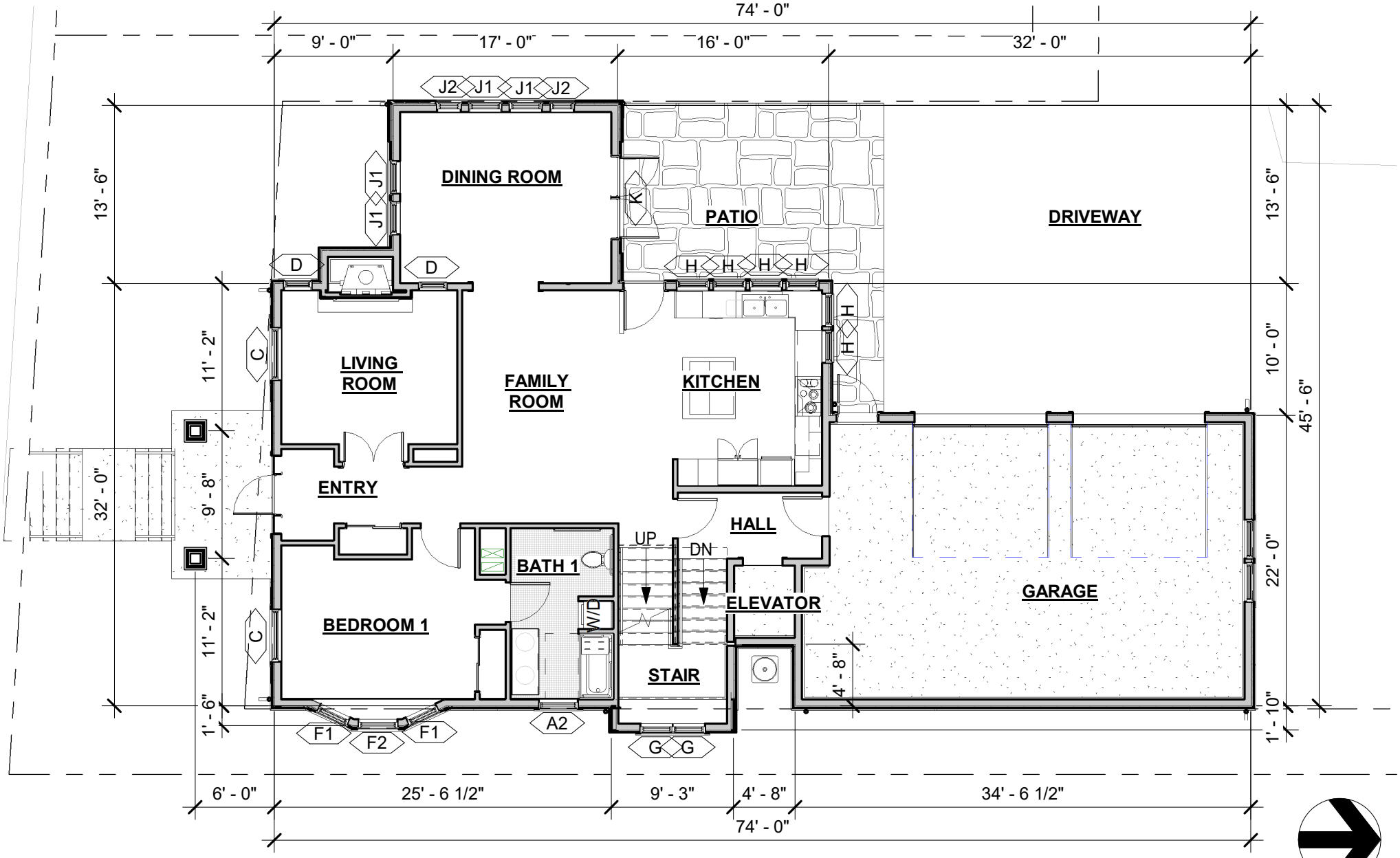
BASEMENT LEVEL PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103



1 PROPOSED MAIN LEVEL PLAN
1" = 10'-0"

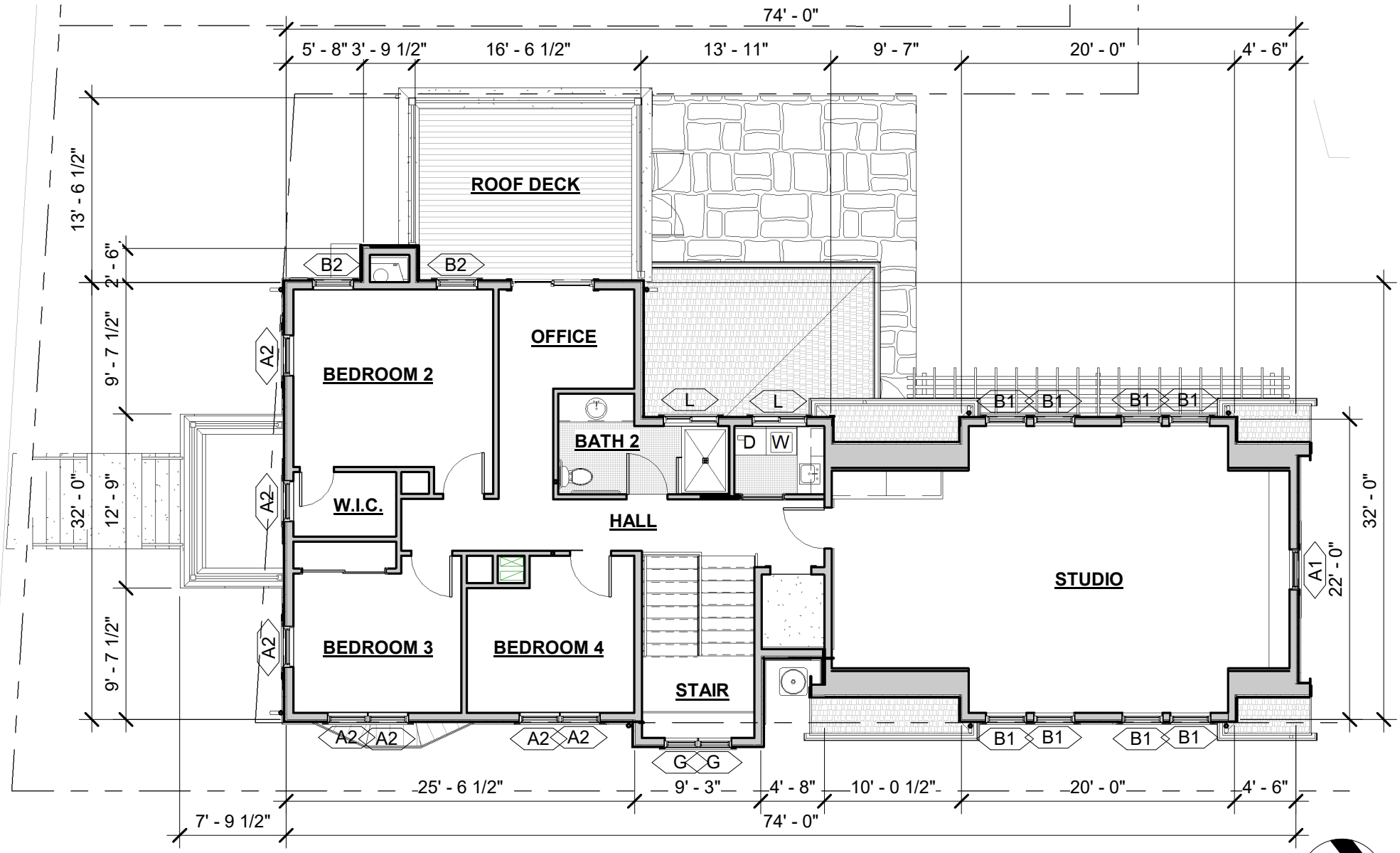
HP2.1
MAIN LEVEL PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103



1 PROPOSED UPPER LEVEL PLAN
1" = 10'-0"

HP2.2
UPPER LEVEL PLAN

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

ST1 - THIN STONE VENEER - ASHLAR PATTERN

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

WD2 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 6" PATTERN (PAINT)

WD3 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 2.5" PATTERN (PAINT)

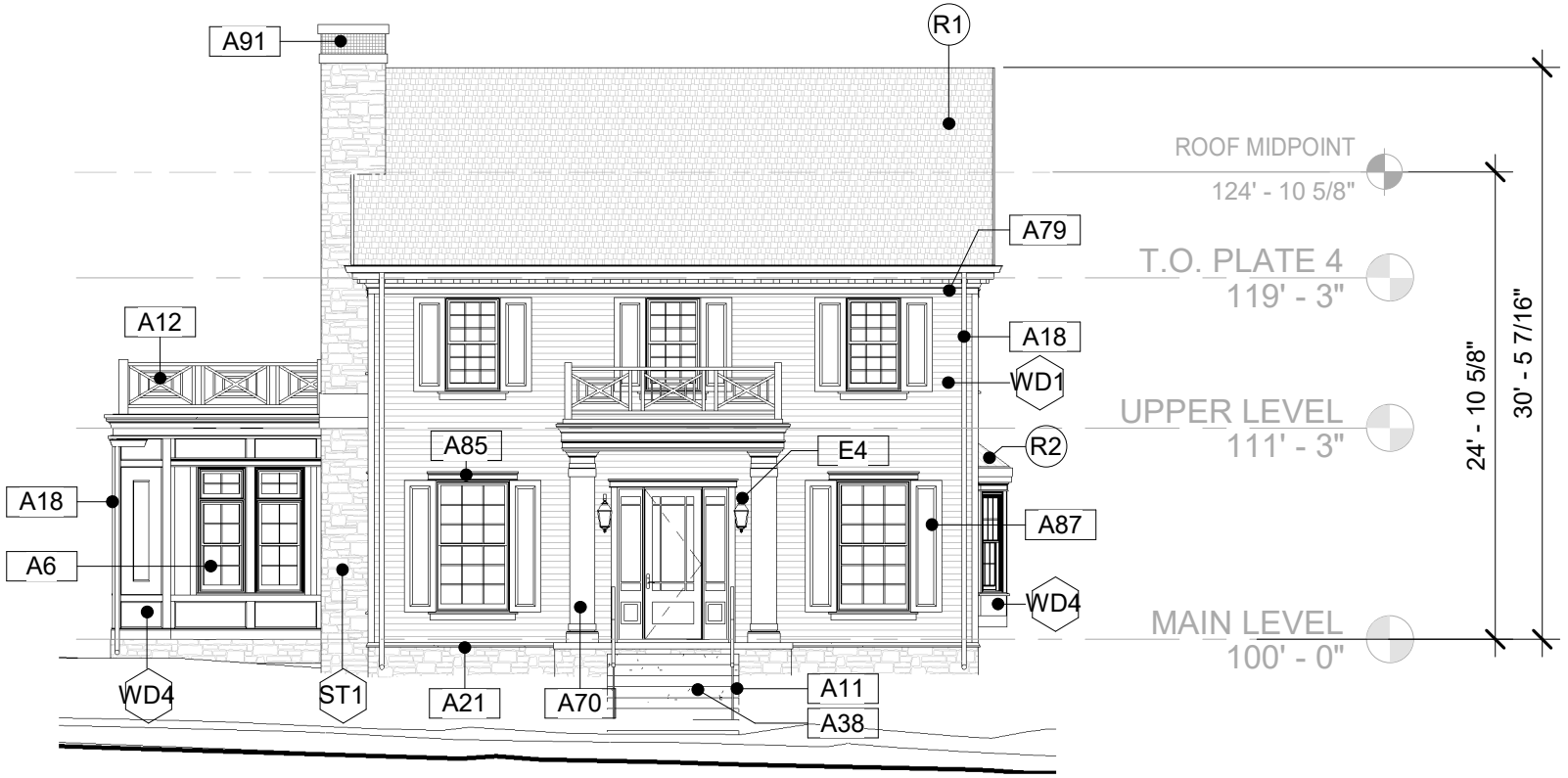
WD4 - FLAT WOOD PANELING WITH 1x TRIM DETAILING (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

R2 - STANDING SEAM METAL ROOFING

KEYNOTES-HDC

A6	NEW WOOD CLAD WINDOW UNIT PER SCHEDULE
A11	STEEL HAND RAIL AT 34" ABOVE NOSING
A12	WOOD GUARDRAIL ASSEMBLY PER DETAILS, PAINT
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A21	STONE SILL/CAP, PROVIDE FLEXIBLE SEALANT AT ALL JOINTS, TYP.
A38	CONCRETE STEPS, MATCH FLAT WORK FINISH
A70	WOOD COLUMN WRAP AND TRIM on STRUCTURAL COLUMN, RE: STRUCTURAL
A79	SOFFIT CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A85	1x WOOD HEAD TRIM w/ CROWN MOLD PROFILE (PAINT)
A87	WOOD PANEL SHUTTER - MATCH WINDOW HEIGHT (PAINT)
A91	STONE CHIMNEY CAP w/ METAL SCREEN SURROUND
E4	DECORATIVE EXTERIOR WALL SCONCE LIGHT FIXTURE, COORDINATE FINAL SELECTION w/OWNERS



1 PROPOSED SOUTH ELEVATION
1" = 10'-0"

HP3.1

SOUTH ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

ST1 - THIN STONE VENEER - ASHLAR PATTERN

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

WD2 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 6" PATTERN (PAINT)

WD3 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 2.5" PATTERN (PAINT)

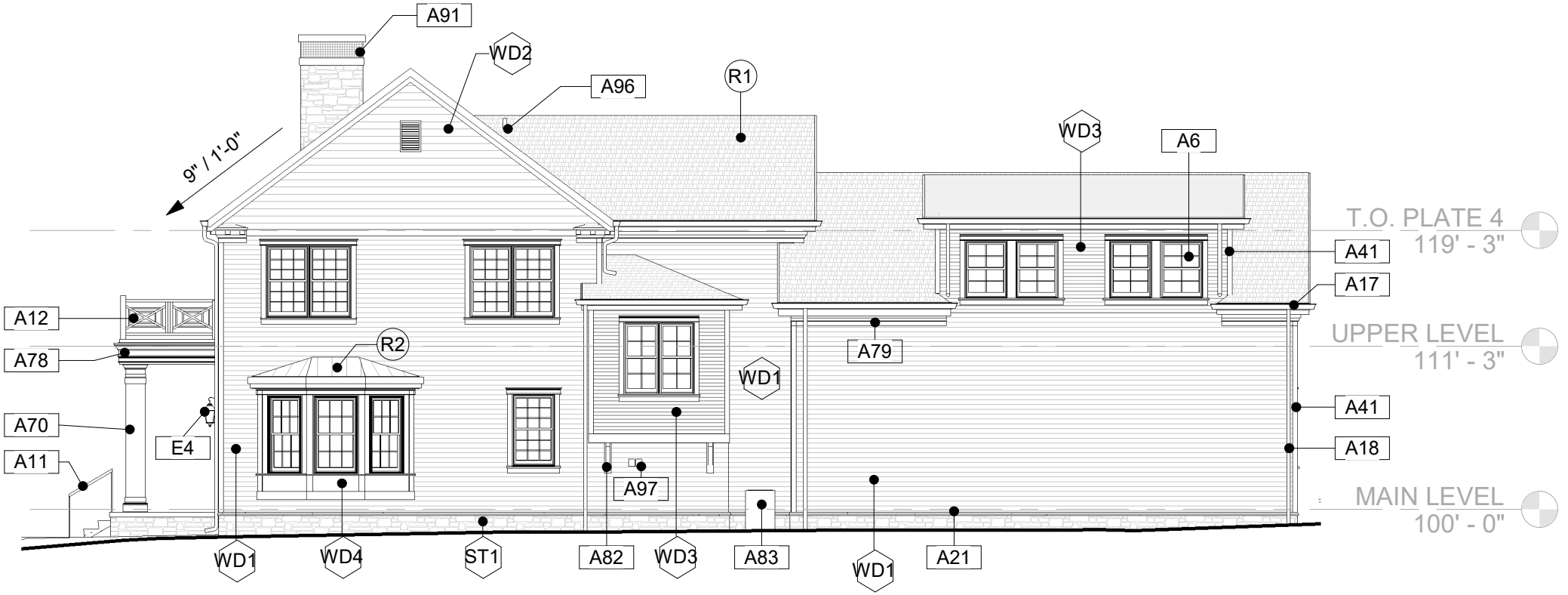
WD4 - FLAT WOOD PANELING WITH 1x TRIM DETAILING (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

R2 - STANDING SEAM METAL ROOFING

KEYNOTES-HDC

A6	NEW WOOD CLAD WINDOW UNIT PER SCHEDULE
A11	STEEL HAND RAIL AT 34" ABOVE NOSING
A12	WOOD GUARDRAIL ASSEMBLY PER DETAILS, PAINT
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A21	STONE SILL/CAP, PROVIDE FLEXIBLE SEALANT AT ALL JOINTS, TYP.
A41	1x6 PAINT GRADE BASEBOARD TRIM (POPLAR OR EQUAL)
A70	WOOD COLUMN WRAP AND TRIM on STRUCTURAL COLUMN, RE: STRUCTURAL
A78	CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A79	SOFFIT CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A82	DECORATIVE WALL BRACKET (PAINT)
A83	A/C MECHANICAL UNIT ON CONC. PAD
A91	STONE CHIMNEY CAP w/ METAL SCREEN SURROUND
A96	PLUMBING ROOF VENT
A97	SIDE WALL DRYER / MECHANICAL VENT
E4	DECORATIVE EXTERIOR WALL SCONCE LIGHT FIXTURE, COORDINATE FINAL SELECTION w/OWNERS



1 PROPOSED EAST ELEVATION
1" = 10'-0"

HP3.2

EAST ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

ST1 - THIN STONE VENEER - ASHLAR PATTERN

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

WD2 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 6" PATTERN (PAINT)

WD3 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 2.5" PATTERN (PAINT)

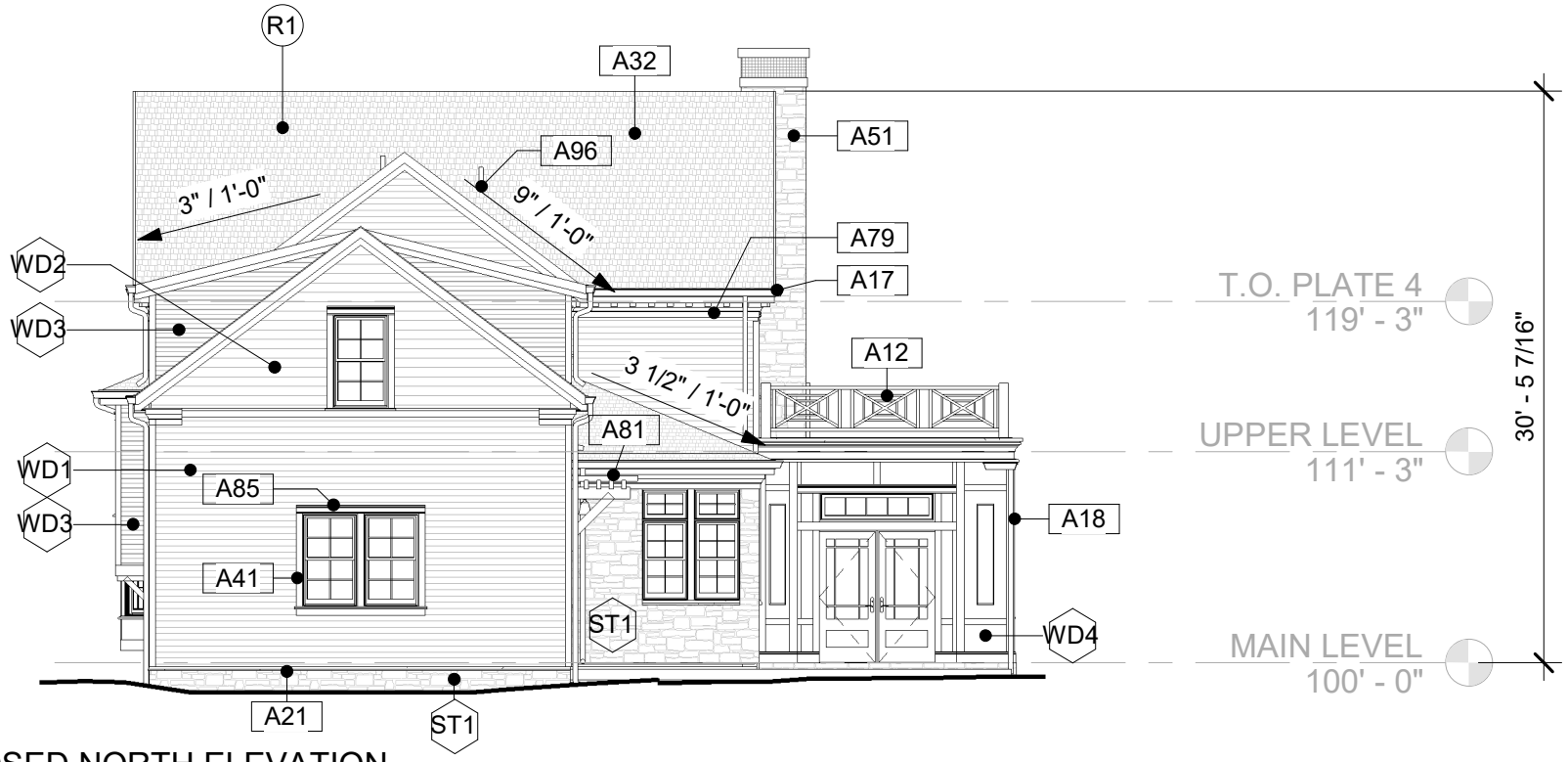
WD4 - FLAT WOOD PANELING WITH 1x TRIM DETAILING (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

R2 - STANDING SEAM METAL ROOFING

KEYNOTES-HDC

A12	WOOD GUARDRAIL ASSEMBLY PER DETAILS, PAINT
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A21	STONE SILL/CAP, PROVIDE FLEXIBLE SEALANT AT ALL JOINTS, TYP.
A32	1x6 T&G EXTERIOR SOFFIT BOARD or BEAD BOARD SOFFIT PANELING
A41	1x6 PAINT GRADE BASEBOARD TRIM (POPLAR OR EQUAL)
A51	INTERIOR THIN STONE (ST-1) WALL FINISH ON CEMENT BOARD BACKING, MATCH EXTR. STONE
A79	SOFFIT CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A81	TRELLIS ROOF SYSTEM (PAINT)
A85	1x WOOD HEAD TRIM w/ CROWN MOLD PROFILE (PAINT)
A96	PLUMBING ROOF VENT



1 PROPOSED NORTH ELEVATION
1" = 10'-0"

HP3.3

NORTH ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

EXTERIOR MATERIAL LEGEND

ST1 - THIN STONE VENEER - ASHLAR PATTERN

WD1 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 4" PATTERN (PAINT)

WD2 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 6" PATTERN (PAINT)

WD3 - EXTERIOR WOOD SHIP-LAP SIDING, HORIZONTAL 2.5" PATTERN (PAINT)

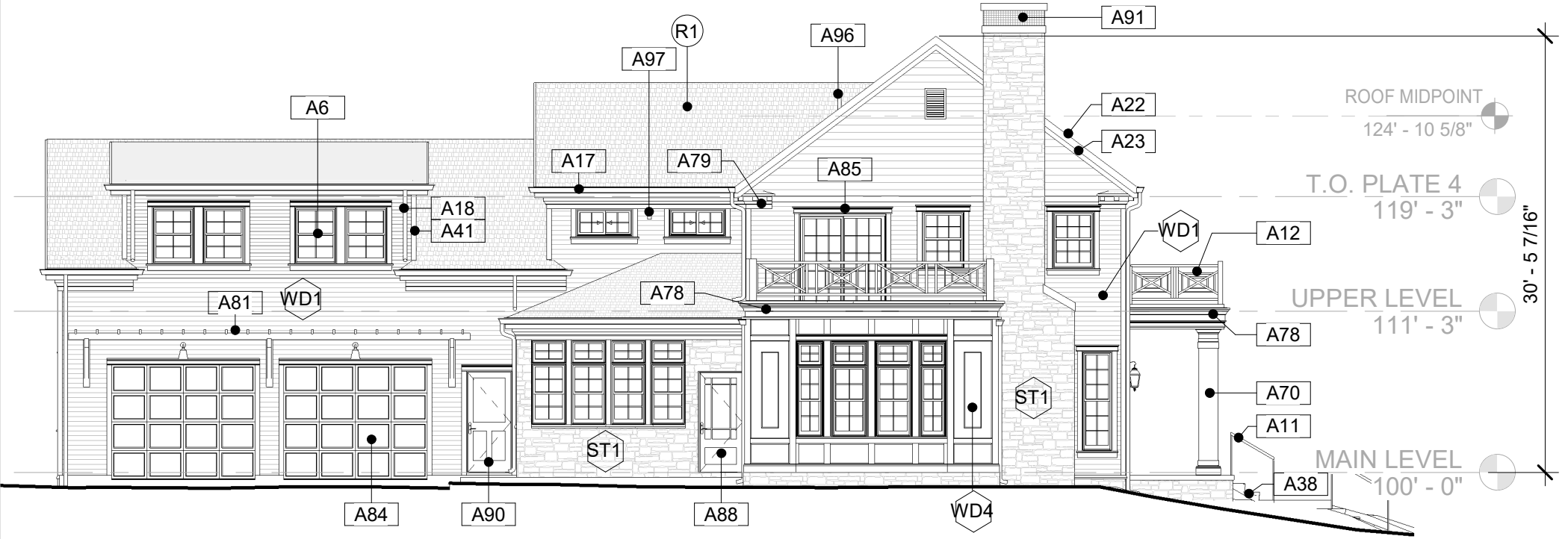
WD4 - FLAT WOOD PANELING WITH 1x TRIM DETAILING (PAINT)

R1 - COMPOSITE SHINGLE ROOFING

R2 - STANDING SEAM METAL ROOFING

KEYNOTES-HDC

A6	NEW WOOD CLAD WINDOW UNIT PER SCHEDULE
A11	STEEL HAND RAIL AT 34" ABOVE NOSING
A12	WOOD GUARDRAIL ASSEMBLY PER DETAILS, PAINT
A17	PRE-FINISHED HEAVY DUTY GUTTER, PROVIDE HEAT TRACE, TYP.
A18	PRE-FINISHED HEAVY DUTY DOWNSPOUT, PROVIDE HEAT TRACE, TYP.
A22	PRE-FINISHED METAL EDGE FLASHING w/ DRIP PER ROOFING MNFR., TYP.
A23	1x6 TRIM FASCIA w/1x SUB-FASCIA (PAINT)
A38	CONCRETE STEPS, MATCH FLAT WORK FINISH
A41	1x6 PAINT GRADE BASEBOARD TRIM (POPLAR OR EQUAL)
A70	WOOD COLUMN WRAP AND TRIM on STRUCTURAL COLUMN, RE: STRUCTURAL
A78	CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A79	SOFFIT CORNICE w/ CROWN MOLD PROFILE TRIM, SEE DETAILS
A81	TRELLIS ROOF SYSTEM (PAINT)
A84	SECTIONAL OVERHEAD GARAGE DOOR (T.B.D.)
A85	1x WOOD HEAD TRIM w/ CROWN MOLD PROFILE (PAINT)
A88	WOOD CLAD HALF LIGHT EXTR. DOOR w/ PRAIRE PATTERN GLASS - 36"W x 84"H
A90	WOOD CLAD HALF LIGHT EXTR. DOOR - 36"W x 84"H
A91	STONE CHIMNEY CAP w/ METAL SCREEN SURROUND
A96	PLUMBING ROOF VENT
A97	SIDE WALL DRYER / MECHANICAL VENT



1 PROPOSED WEST ELEVATION
1" = 10'-0"

HP3.4

WEST ELEVATION

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

HP4.1

3-D VIEWS

AHN ARCHITECTURE

5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

HP4.2

3-D VIEWS

AHN ARCHITECTURE

5583 Sutters Lane , Bloomfield Hills, MI 48301

CANTELON RESIDENCE

PROJECT No: 24-RES-102

DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

WINDOW SCHEDULE

Mark	Count	Width	Height	Window Type	Comments
A1	3	2' - 11 1/4"	4' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
A2	8	2' - 11 1/4"	4' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
B1	8	2' - 11 1/4"	3' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
B2	2	2' - 11 1/4"	3' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
C	2	3' - 11 1/4"	6' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
D	2	2' - 1 1/4"	6' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
F1	2	2' - 5 1/4"	5' - 3 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
F2	1	2' - 11 1/4"	5' - 3 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
G	2	2' - 5 1/4"	4' - 11 1/2"	Double Hung	Anderson 400 Series - Wood Clad with Vinyl Exterior
H	6	2' - 5 1/4"	5' - 11 3/16"	Double Hung with Transom	Anderson 400 Series - Wood Clad with Vinyl Exterior
J1	4	2' - 5 1/4"	6' - 7 3/16"	Double Hung with Transom	Anderson 400 Series - Wood Clad with Vinyl Exterior
J2	2	1' - 9 1/4"	6' - 7 3/16"	Double Hung with Transom	Anderson 400 Series - Wood Clad with Vinyl Exterior
K	1	6' - 0"	1' - 5 1/8"	Casement Picture	Anderson 400 Series - Wood Clad with Vinyl Exterior
L	2	3' - 11 1/2"	1' - 11 1/2"	Glider	Anderson 400 Series - Wood Clad with Vinyl Exterior
LOUVER 1	2	1' - 4"	2' - 0"		Wood Louver

HP5.1

WINDOW SCHEDULE

AHN ARCHITECTURE
5583 Sutters Lane , Bloomfield Hills, MI 48301

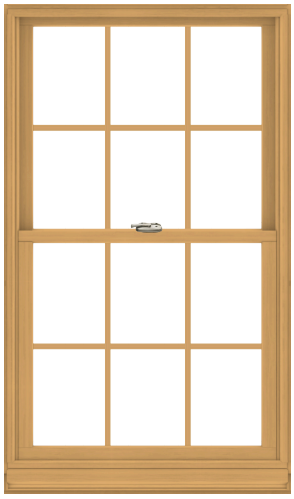
CANTELON RESIDENCE

PROJECT No: 24-RES-102
DATE: 12/16/2025

916 W. Washington St.
Ann Arbor, MI 48103

400 SERIES TILT-WASH DOUBLE-HUNG WINDOW

400 SERIES DOUBLE-HUNG WINDOW



Interior

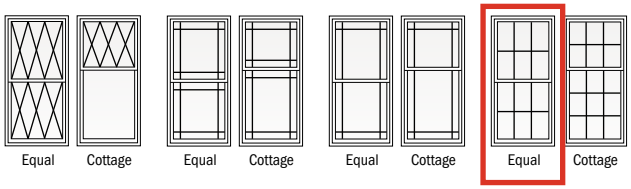
Exterior

Summary

Product ID#	TW210410
Unit Width	35 5/8"
Unit Height	60 7/8"
Interior Color	Pine
Glass	Low-E4® Glass
Hardware	Estate™ Lock and Keeper, Antique Brass
Optional Hardware	None
Grille Pattern	Colonial
Grille Width	3/4"
Exterior Color	Canvas
Exterior Trim Profile	None
Exterior Trim Color	Canvas

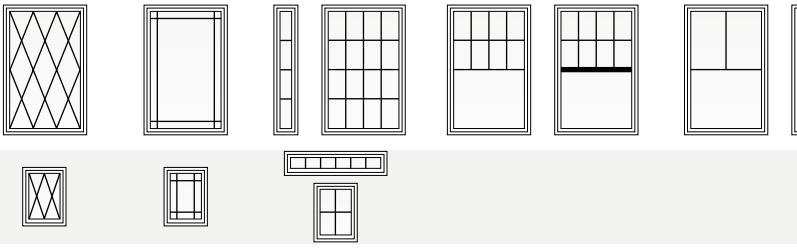
Grille Patterns

	Diamond*	Prairie A	6-Light Prairie	Colonial
Tilt-Wash Double-Hung	Equal, Cottage	Equal, Cottage	Equal, Cottage	Equal, Cottage

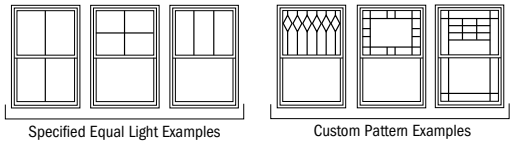


Patterns for double-hung windows are also available in Upper Sash Only (USO) configurations. For picture window patterns that require alignment with double-hung window patterns, identify the sash style (equal, cottage or reverse cottage) when ordering. **Number of lights and overall pattern varies with window size. Patterns not available in all configurations.**

	Diamond*	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail	Victorian
Tilt-Wash Picture										
Tilt-Wash Transom										



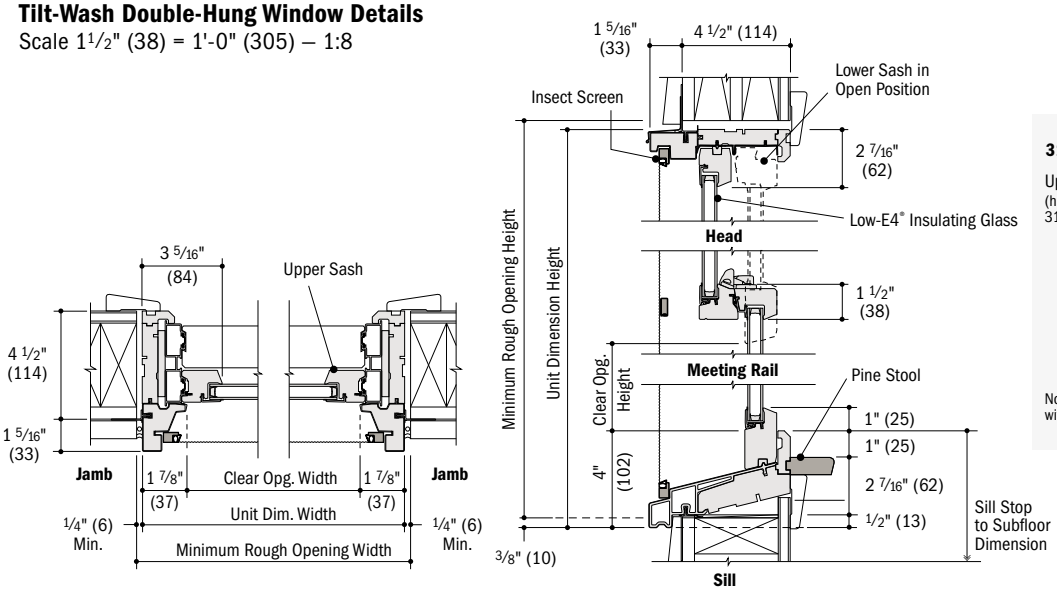
*Available only in Simulated Divided Light (SDL) configuration and only in 3/4" (19) and 7/8" (22) widths.



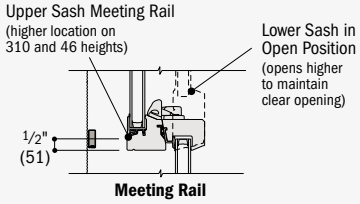
Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.

Tilt-Wash Double-Hung Window Details

Scale 1 1/2" (38) = 1'-0" (305) – 1:8



310 and 46 Height Windows Only:



Note: Location of support bar on optional insect screen aligns with meeting rail location on 310 and 46 window heights.

- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

TILT-WASH DOUBLE-HUNG FULL-FRAME WINDOWS

Table of Tilt-Wash Double-Hung Window Sizes

Scale 1/8" (3) = 1'-0" (305) – 1:96

Window Dimension	1'-9 5/8" (549)	2'-1 5/8" (651)	2'-5 5/8" (752)	2'-7 5/8" (803)	2'-9 5/8" (854)	2'-11 5/8" (905)	3'-1 5/8" (956)	3'-5 5/8" (1057)	3'-9 5/8" (1159)
Minimum Rough Opening	1'-10 1/8" (562)	2'-2 1/8" (664)	2'-6 1/8" (765)	2'-8 1/8" (816)	2'-10 1/8" (867)	3'-0 1/8" (917)	3'-2 1/8" (968)	3'-6 1/8" (1070)	3'-10 1/8" (1172)
Unobstructed Glass (lower sash only)	15" (381)	19" (483)	23" (584)	25" (635)	27" (686)	29" (737)	31" (787)	35" (889)	39" (991)

CUSTOM WIDTHS – 21 5/8" to 45 5/8"

CUSTOM HEIGHTS – 36 7/8" to 92 7/8"

3'-0 7/8" (937) × 3'-0 7/8" (937) / 13 15/16" (354)	TW18210	TW20210	TW24210	TW26210	TW28210	TW210210	TW30210	TW34210	TW38210
3'-4 7/8" (1038) × 3'-4 7/8" (1038) / 15 15/16" (405)	TW1832	TW2032	TW2432	TW2632	TW2832	TW21032	TW3032	TW3432	TW3832
3'-8 7/8" (1140) × 3'-8 7/8" (1140) / 17 15/16" (456)	TW1836	TW2036	TW2436	TW2636	TW2836	TW21036	TW3036	TW3436	TW3836
4'-0 7/8" (1241) × 4'-0 7/8" (1241) / 19 7/16" (495)	TW18310	TW20310	TW24310	TW26310	TW28310	TW210310	TW30310	TW34310	TW38310
4'-4 7/8" (1343) × 4'-4 7/8" (1343) / 21 15/16" (557)	TW1842	TW2042	TW2442	TW2642	TW2842	TW21042	TW3042	TW3442	TW3842
4'-8 7/8" (1445) × 4'-8 7/8" (1445) / 23 7/16" (596)	TW1846	TW2046	TW2446	TW2646	TW2846	TW21046	TW3046◊	TW3446◊	TW3846◊
5'-0 7/8" (1546) × 5'-0 7/8" (1546) / 25 15/16" (659)	TW18410	TW20410	TW24410	TW26410	TW28410	TW210410◊	TW30410◊	TW34410◊	TW38410◊
5'-4 7/8" (1648) × 5'-4 7/8" (1648) / 27 15/16" (710)	TW1852	TW2052	TW2452	TW2652	TW2852◊	TW21052◊	TW3052◊	TW3452◊	TW3852◊
5'-8 7/8" (1749) × 5'-8 7/8" (1749) / 29 15/16" (760)	TW1856	TW2056	TW2456	TW2656◊	TW2856◊	TW21056◊	TW3056◊	TW3456◊	TW3856◊
6'-0 7/8" (1851) × 6'-0 7/8" (1851) / 31 15/16" (811)	TW18510	TW20510	TW24510◊	TW26510◊	TW28510◊	TW210510◊	TW30510◊	TW34510◊	TW38510◊
6'-4 7/8" (1953) × 6'-4 7/8" (1953) / 33 15/16" (862)	TW1862	TW2062	TW2462◊	TW2662◊	TW2862◊	TW21062◊	TW3062◊	TW3462◊	TW3862◊

continued on next page

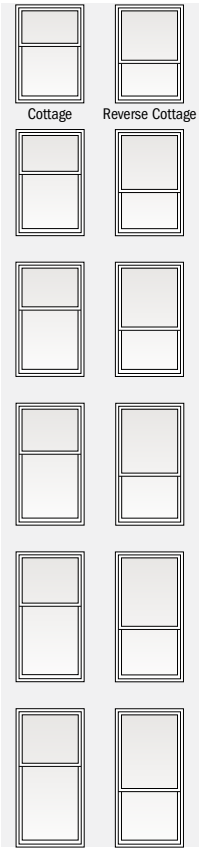
Custom-size windows are available in 1/8" (3) increments. See page 84 for custom sizing.

Grille patterns shown on page 85.

Cottage or reverse cottage sash ratio available for heights shown below in all widths.

CUSTOM WIDTHS – 21 5/8" to 45 5/8"

CUSTOM HEIGHTS – 48 7/8" to 76 7/8"



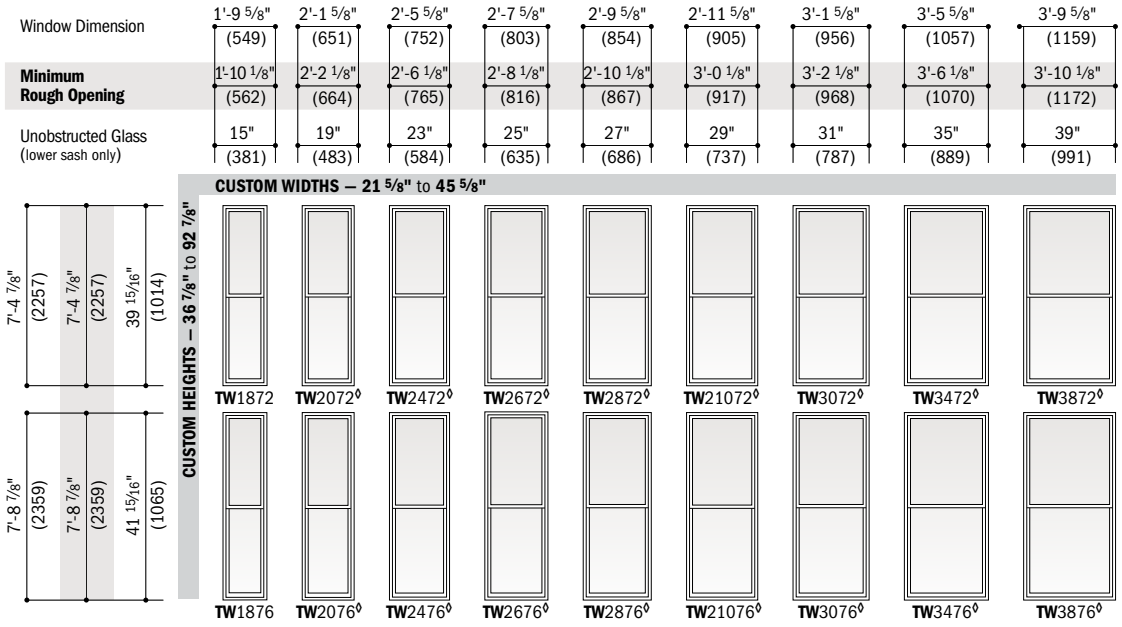
Size tables for windows with cottage or reverse cottage sash are available at **andersenwindows.com/sizing**.

- "Window Dimension" always refers to outside frame-to-frame dimension.
- "**Minimum Rough Opening**" **dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
- Dimensions in parentheses are in millimeters.

◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 82-83.

Table of Tilt-Wash Double-Hung Window Sizes *(continued)*

Scale 1/8" (3) = 1'-0" (305) – 1:96



• "Window Dimension" always refers to outside frame-to-frame dimension.
• **"Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See tables on pages 82-83.

Custom-size windows are available in 1/8" (3) increments. See page 84 for custom sizing.

Windows 7'-4 7/8" (2257) and 7'-8 7/8" (2359) high have interior and exterior brackets. Interior brackets, located on both sides of the meeting rail, must be flipped up for proper product performance. Andersen® reinforced joining materials must be used when vertically joining 7'-4 7/8" (2257) and 7'-8 7/8" (2359) height windows.

Grille patterns shown on page 85.

Tilt-Wash Transom Window Area Specifications

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT1810	0.56	(0.05)	1.80	(0.17)
TWT1815	1.32	(0.12)	2.90	(0.27)
TWT1817	1.52	(0.14)	3.20	(0.30)
TWT18111	1.94	(0.18)	3.80	(0.35)
TWT1821	2.15	(0.20)	4.10	(0.38)
TWT1823	2.35	(0.22)	4.40	(0.41)
TWT1827	2.77	(0.26)	5.00	(0.47)
TWT1831	3.39	(0.32)	5.90	(0.55)
TWT2010	0.70	(0.07)	2.14	(0.20)
TWT2015	1.67	(0.16)	3.44	(0.32)
TWT2017	1.93	(0.18)	3.79	(0.35)
TWT20111	2.46	(0.23)	4.50	(0.42)
TWT2021	2.72	(0.25)	4.86	(0.45)
TWT2023	2.98	(0.28)	5.22	(0.49)
TWT2027	3.51	(0.33)	5.93	(0.55)
TWT2031	4.30	(0.40)	7.00	(0.65)
TWT2410	0.85	(0.08)	2.47	(0.23)
TWT2415	2.02	(0.19)	3.97	(0.37)
TWT2417	2.34	(0.22)	4.38	(0.41)
TWT24111	2.98	(0.28)	5.21	(0.48)
TWT2421	3.29	(0.31)	5.62	(0.52)
TWT2423	3.61	(0.34)	6.03	(0.56)
TWT2427	4.25	(0.40)	6.85	(0.64)
TWT2431	5.21	(0.48)	8.09	(0.75)
TWT2610	0.93	(0.09)	2.64	(0.25)
TWT2615	2.19	(0.20)	4.24	(0.39)
TWT2617	2.54	(0.24)	4.68	(0.44)

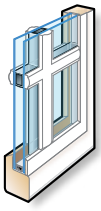
Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT26111	3.23	(0.30)	5.56	(0.52)
TWT2621	3.58	(0.33)	6.00	(0.56)
TWT2623	3.93	(0.37)	6.44	(0.60)
TWT2627	4.62	(0.43)	7.32	(0.68)
TWT2631	5.66	(0.53)	8.63	(0.80)
TWT2810	1.00	(0.09)	2.80	(0.26)
TWT2815	2.37	(0.22)	4.51	(0.42)
TWT2817	2.74	(0.26)	4.98	(0.46)
TWT28111	3.49	(0.32)	5.91	(0.55)
TWT2821	3.87	(0.36)	6.38	(0.59)
TWT2823	4.24	(0.39)	6.84	(0.64)
TWT2827	4.99	(0.46)	7.78	(0.72)
TWT2831	6.12	(0.57)	9.18	(0.85)
TWT21010	1.07	(0.10)	2.97	(0.28)
TWT21015	2.55	(0.24)	4.78	(0.44)
TWT21017	2.95	(0.27)	5.27	(0.49)
TWT210111	3.75	(0.35)	6.26	(0.58)
TWT21021	4.15	(0.39)	6.76	(0.63)
TWT21023	4.56	(0.42)	7.25	(0.67)
TWT21027	5.36	(0.50)	8.24	(0.77)
TWT21031	6.57	(0.61)	9.73	(0.90)
TWT3010	1.15	(0.11)	3.14	(0.29)
TWT3015	2.72	(0.25)	5.05	(0.47)
TWT3017	3.15	(0.29)	5.57	(0.52)
TWT30111	4.01	(0.37)	6.61	(0.61)
TWT3021	4.44	(0.41)	7.14	(0.66)
TWT3023	4.87	(0.45)	7.66	(0.71)

Window Number	Glass Area Sq. Ft./(m²)		Overall Window Area Sq. Ft./(m²)	
TWT3027	5.73	(0.53)	8.70	(0.81)
TWT3031	7.02	(0.65)	10.27	(0.95)
TWT3410	1.30	(0.12)	3.47	(0.32)
TWT3415	3.07	(0.29)	5.58	(0.52)
TWT3417	3.56	(0.33)	6.16	(0.57)
TWT34111	4.53	(0.42)	7.32	(0.68)
TWT3421	5.02	(0.47)	7.89	(0.73)
TWT3423	5.50	(0.51)	8.47	(0.79)
TWT3427	6.47	(0.60)	9.63	(0.90)
TWT3431	7.93	(0.74)	11.36	(1.06)
TWT3810	1.45	(0.14)	3.80	(0.35)
TWT3815	3.42	(0.32)	6.12	(0.57)
TWT3817	3.97	(0.37)	6.75	(0.63)
TWT38111	5.05	(0.47)	8.02	(0.75)
TWT3821	5.59	(0.52)	8.65	(0.80)
TWT3823	6.13	(0.57)	9.29	(0.86)
TWT3827	7.21	(0.67)	10.55	(0.98)
TWT3831	8.84	(0.82)	12.46	(1.16)
TWT31010	1.51	(0.14)	3.94	(0.37)
TWT4210	1.66	(0.15)	4.28	(0.40)
TWT41010	1.95	(0.18)	4.94	(0.46)
TWT5610	2.25	(0.21)	5.61	(0.52)
TWT6210	2.55	(0.24)	6.28	(0.58)

• Dimensions in parentheses are in square meters.

GRILLE OPTIONS

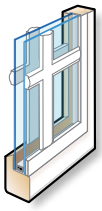
Grille patterns are available in widths and configurations to fit any architectural style or the taste of any customer. We can match virtually any existing grille pattern, and we'll even work with you and your customers to create custom patterns.



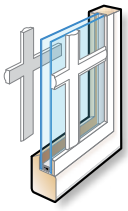
Permanent exterior
Permanent interior with spacer

FULL DIVIDED LIGHT

Permanently applied to the interior and exterior of the window, with a spacer between the glass.



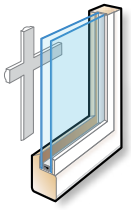
Permanent exterior
Permanent interior



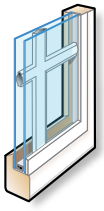
Permanent exterior
Removable interior

SIMULATED DIVIDED LIGHT

Permanent grilles on the exterior and interior, with no spacer between the glass. We also offer permanent exterior grilles with removable interior grilles.



Removable interior



Finelight grilles-between-the-glass*

CONVENIENT CLEANING OPTIONS

Removable interior grilles come off for easy cleaning. Finelight™ grilles-between-the-glass are installed between the glass panes, and feature a contoured profile in 1" (25) and ¾" (19) widths.

Grille Bar Widths & Patterns

¾" (19) | ⅞" (22) | 1⅛" (29) | 2¼" (57)

Actual width shown.

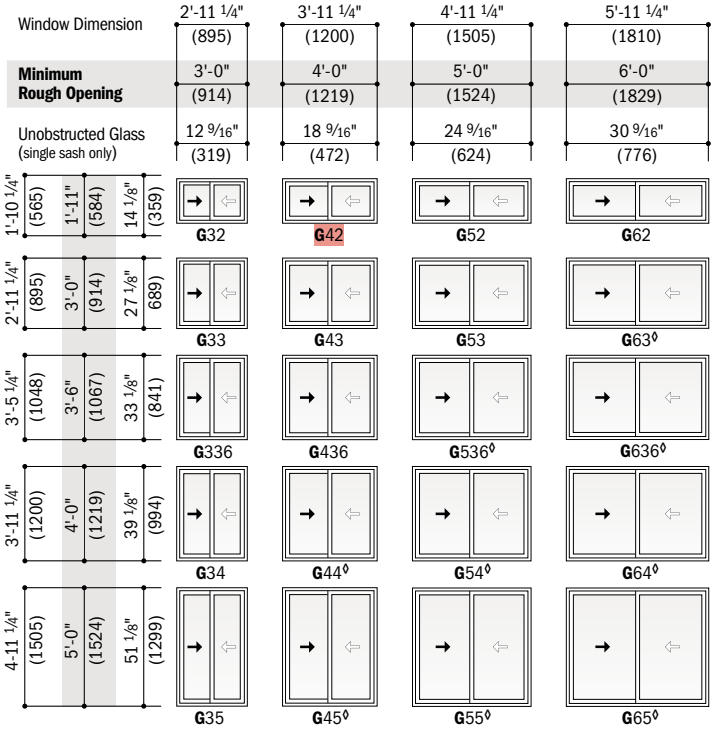
Our 2¼" (57) width grille can be positioned horizontally across the center of a casement window to simulate the look of a double-hung window.

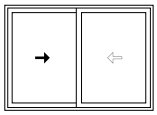
To see all of the standard patterns available for a specific window or door, refer to the detailed product sections in this product guide.

*⅞" (22), 1⅛" (29) and 2¼" (57) are not available in Finelight grilles-between-the-glass.
Dimensions in parentheses are in millimeters.

Table of Gliding Window Sizes

Scale ⅛" (3) = 1'-0" (305) – 1:96





Viewed from the exterior. Passive sash will open after active sash has been opened.

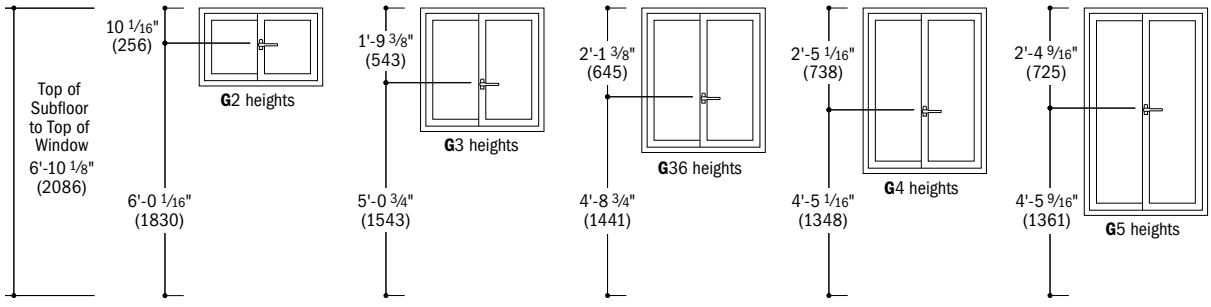
Grille patterns shown on page 115.

• "Window Dimension" always refers to outside frame-to-frame dimension.
• **"Minimum Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See pages 210-211 for more details.**
• Dimensions in parentheses are in millimeters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610). See table on page 115.

Handle Location

Operational force of handle is equal to 8 lbs/3.6 kg.

Dimensions shown are from top of handle in open position.



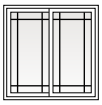
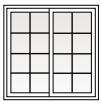
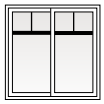
• Dimensions in parentheses are in millimeters.

Gliding Window Opening and Area Specifications

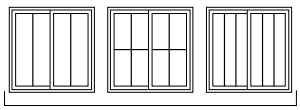
Window Number	Clear Opening Area Sq. Ft./(m²)		Clear Opening in Full Open Position Width Inches/(mm)		Clear Opening in Full Open Position Height Inches/(mm)		Glass Area Sq. Ft./(m²)		Vent Area Sq. Ft./(m²)		Top of Subfloor to Top of Sill Parting Stop Inches/(mm)		Overall Window Area Sq. Ft./(m²)	
G32	1.70	(0.16)	14 9/32"	(363)	17 1/8"	(435)	2.5	(0.23)	1.70	(0.16)	62 9/16"	(1589)	5.45	(0.51)
G33	3.00	(0.28)	14 9/32"	(363)	30 1/8"	(765)	4.7	(0.44)	3.00	(0.28)	49 9/16"	(1259)	8.63	(0.80)
G336	3.58	(0.33)	14 9/32"	(363)	36 1/8"	(918)	5.7	(0.53)	3.58	(0.33)	43 9/16"	(1107)	10.10	(0.94)
G34	4.18	(0.39)	14 9/32"	(363)	42 1/8"	(1070)	6.8	(0.63)	4.18	(0.39)	37 9/16"	(954)	11.57	(1.08)
G35	5.40	(0.50)	14 9/32"	(363)	54 1/8"	(1375)	8.9	(0.83)	5.40	(0.50)	25 9/16"	(649)	14.50	(1.35)
G42	2.40	(0.22)	20 9/32"	(515)	17 1/8"	(435)	3.6	(0.33)	2.40	(0.22)	62 9/16"	(1589)	7.30	(0.68)
G43	4.40	(0.41)	20 9/32"	(515)	30 1/8"	(765)	7.0	(0.65)	4.40	(0.41)	49 9/16"	(1259)	11.57	(1.08)
G436	5.10	(0.47)	20 9/32"	(515)	36 1/8"	(918)	8.5	(0.79)	5.10	(0.47)	43 9/16"	(1107)	13.54	(1.26)
G44 ◊	6.00	(0.56)	20 9/32"	(515)	42 1/8"	(1070)	10.0	(0.93)	6.00	(0.56)	37 9/16"	(954)	15.50	(1.44)
G45 ◊	7.62	(0.71)	20 9/32"	(515)	54 1/8"	(1375)	13.1	(1.22)	7.62	(0.71)	25 9/16"	(649)	19.44	(1.81)
G52	3.13	(0.29)	26 9/32"	(668)	17 1/8"	(435)	4.8	(0.45)	3.13	(0.29)	62 9/16"	(1589)	9.15	(0.85)
G53	5.50	(0.51)	26 9/32"	(668)	30 1/8"	(765)	9.2	(0.86)	5.50	(0.51)	49 9/16"	(1259)	14.50	(1.35)
G536 ◊	6.60	(0.61)	26 9/32"	(668)	36 1/8"	(918)	11.3	(1.05)	6.60	(0.61)	43 9/16"	(1107)	16.97	(1.58)
G54 ◊	7.70	(0.72)	26 9/32"	(668)	42 1/8"	(1070)	13.3	(1.24)	7.70	(0.72)	37 9/16"	(954)	19.44	(1.81)
G55 ◊	9.90	(0.92)	26 9/32"	(668)	54 1/8"	(1375)	17.4	(1.62)	9.90	(0.92)	25 9/16"	(649)	24.38	(2.27)
G62	3.84	(0.36)	32 9/32"	(820)	17 1/8"	(435)	6.0	(0.56)	3.84	(0.36)	62 9/16"	(1589)	11.01	(1.02)
G63 ◊	6.75	(0.63)	32 9/32"	(820)	30 1/8"	(765)	11.5	(1.07)	6.75	(0.63)	49 9/16"	(1259)	17.44	(1.62)
G636 ◊	8.10	(0.75)	32 9/32"	(820)	36 1/8"	(918)	14.0	(1.30)	8.10	(0.75)	43 9/16"	(1107)	20.41	(1.90)
G64 ◊	9.44	(0.88)	32 9/32"	(820)	42 1/8"	(1070)	16.6	(1.54)	9.44	(0.88)	37 9/16"	(954)	23.38	(2.17)
G65 ◊	12.13	(1.13)	32 9/32"	(820)	54 1/8"	(1375)	21.7	(2.02)	12.13	(1.13)	25 9/16"	(649)	29.32	(2.72)

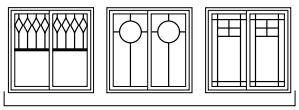
• "Top of Subfloor to Top of Inside Sill Stop" is calculated based upon a structural header height of 6'-10 1/2" (2096).
• Dimensions in parentheses are in millimeters or square meters.
◊ Meet or exceed clear opening area of 5.7 sq. ft. or 0.53 m², clear opening width of 20" (508) and clear opening height of 24" (610).

Grille Patterns

	Prairie A	Colonial	Modified Colonial	Modified Colonial with Simulated Meeting Rail	Tall Fractional	Tall Fractional with Simulated Meeting Rail	Short Fractional	Short Fractional with Simulated Meeting Rail
Gliding								

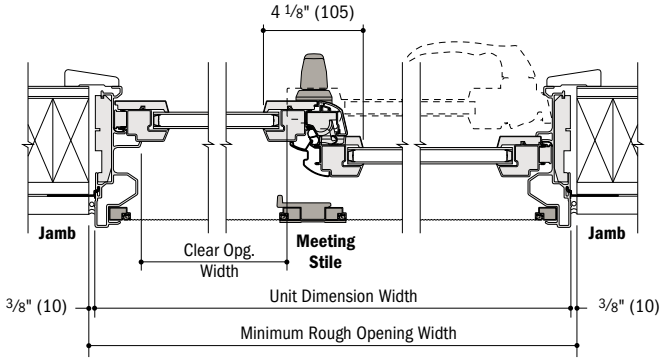
Number of lights and overall pattern varies with window size. Patterns not available in all configurations.
Specified equal light and custom patterns are also available. For more grille options, see page 14 or visit **andersenwindows.com/grilles**.


Specified Equal Light Examples

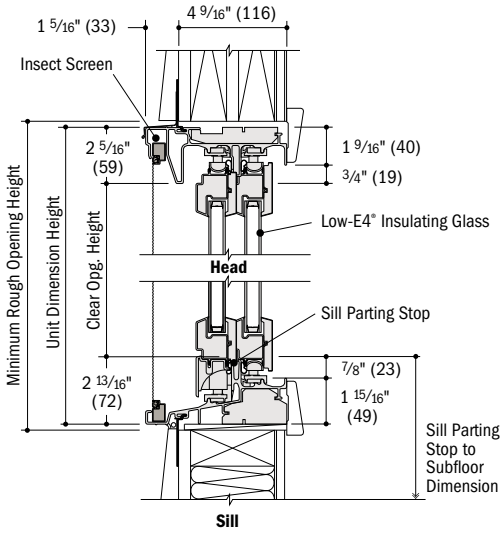

Custom Pattern Examples

Gliding Window Details

Scale 1½" (38) = 1'-0" (305) – 1:8



Horizontal Section

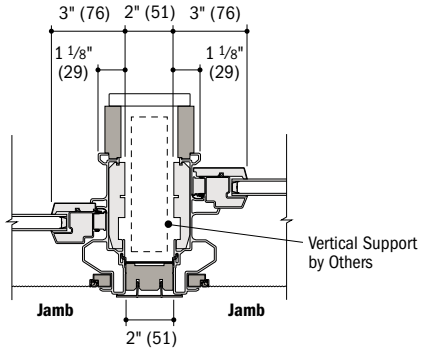


Vertical Section

Separate Rough Openings Detail

Scale 1½" (38) = 1'-0" (305) – 1:8

To meet structural requirements or to achieve a wider joined appearance, windows may be installed into separate rough openings having vertical support (by others) in combination with Andersen® exterior filler and exterior vinyl trim.

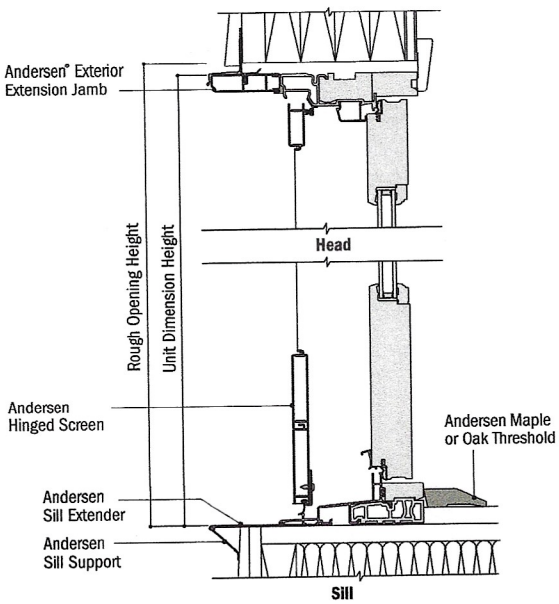


Horizontal Section
Gliding and Gliding

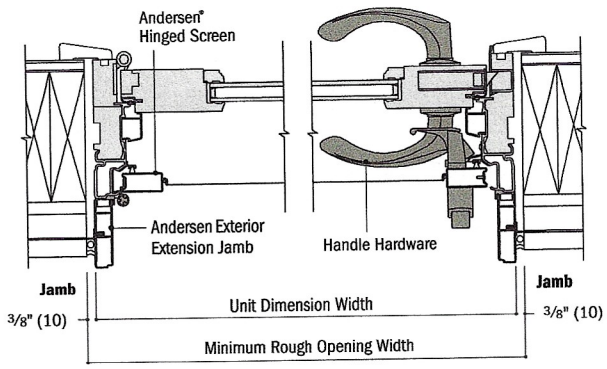
- Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items. See installation information on pages 210-211.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Consult with an architect or structural engineer regarding minimum requirements for structural support members between adjacent rough openings.
- Dimensions in parentheses are in millimeters.

Details for Frenchwood® Hinged Inswing Patio Doors

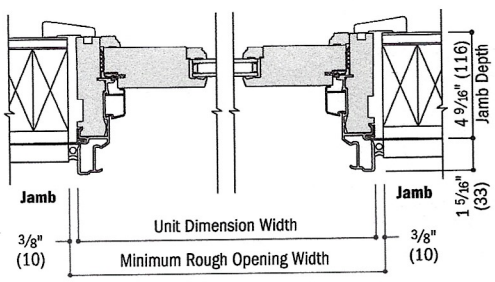
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



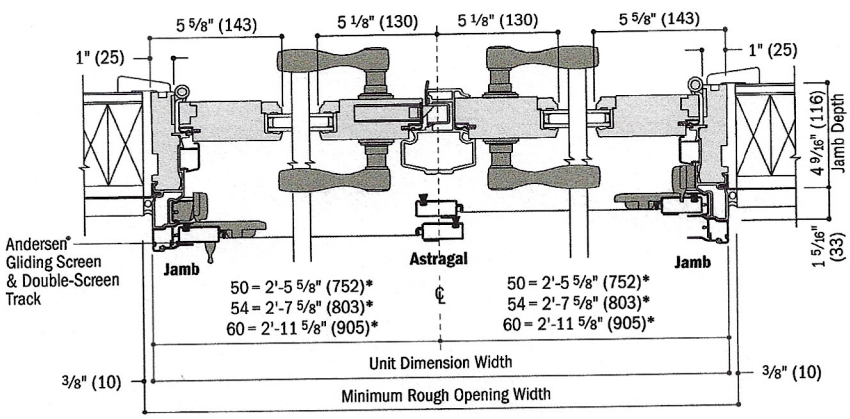
Vertical Section



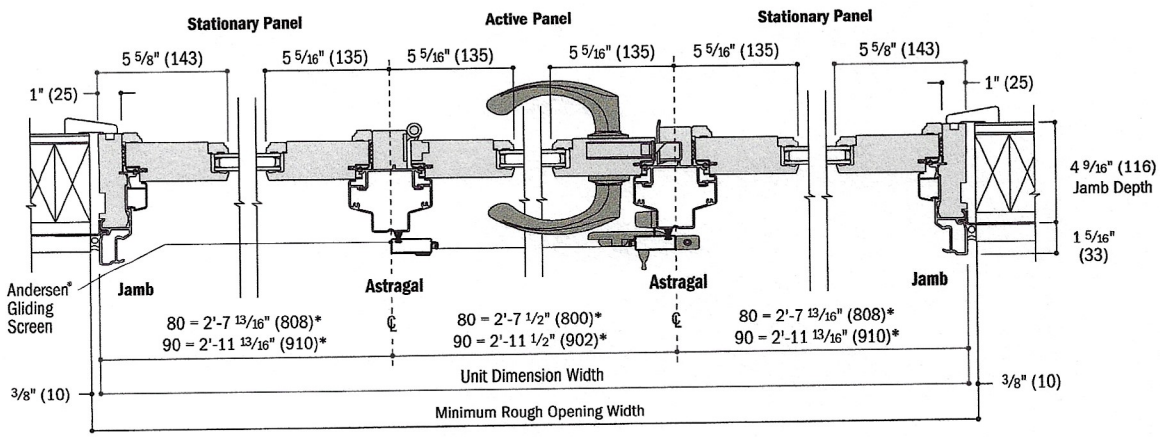
Horizontal Section
Active



Horizontal Section
Stationary



Horizontal Section
Two-Panel



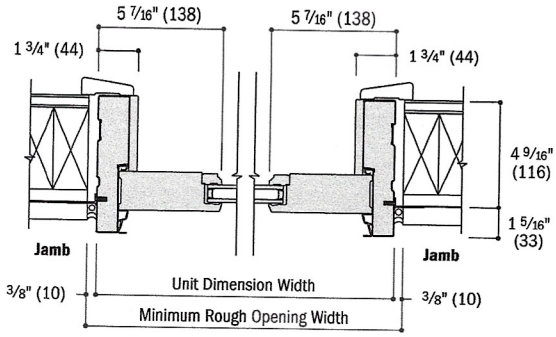
Horizontal Section
Three-Panel

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

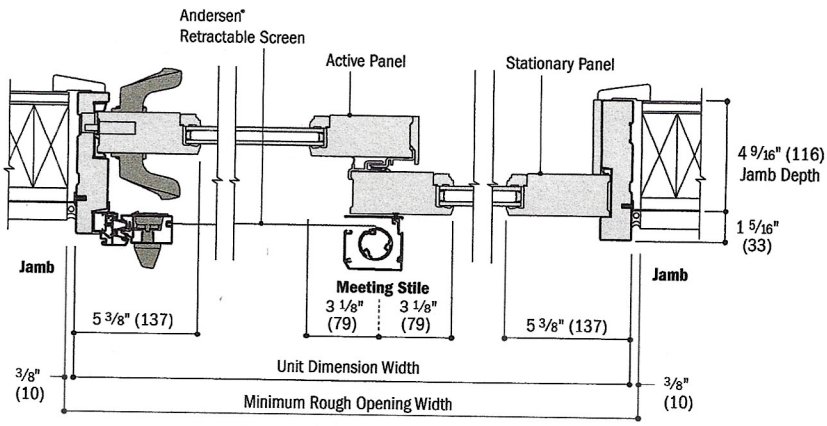
*Dimension indicates location of astragal centerline.

Details for Frenchwood® Gliding Patio Doors

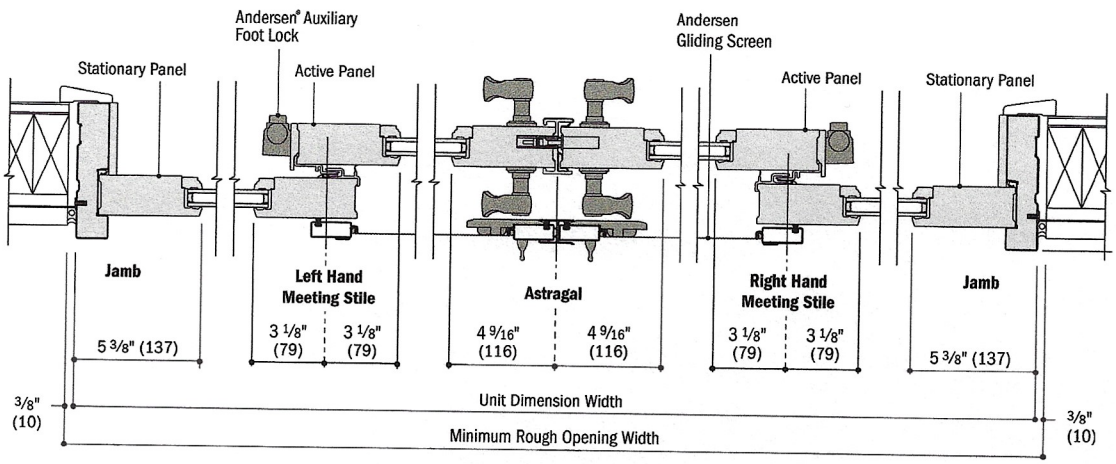
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section
Stationary



Horizontal Section
Two-Panel

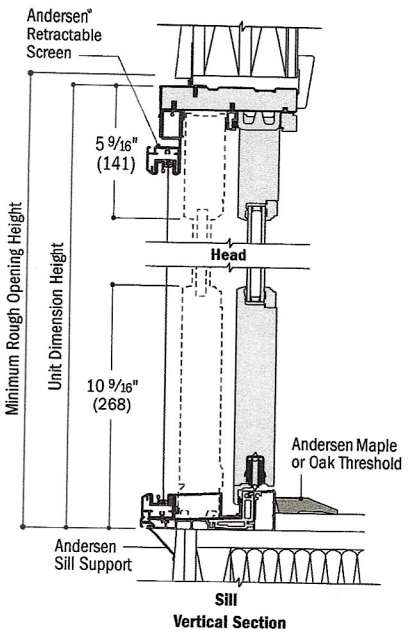


Horizontal Section
Four-Panel

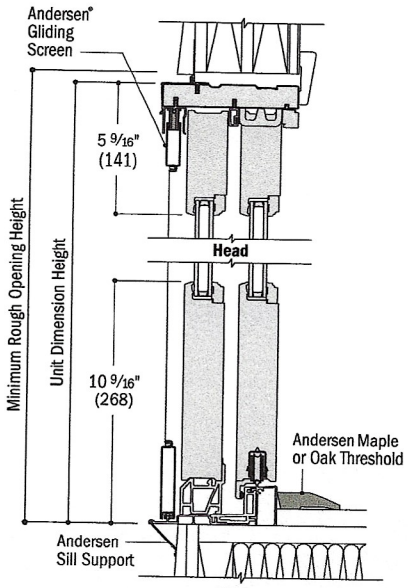
- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

Details for Frenchwood® Gliding Patio Doors

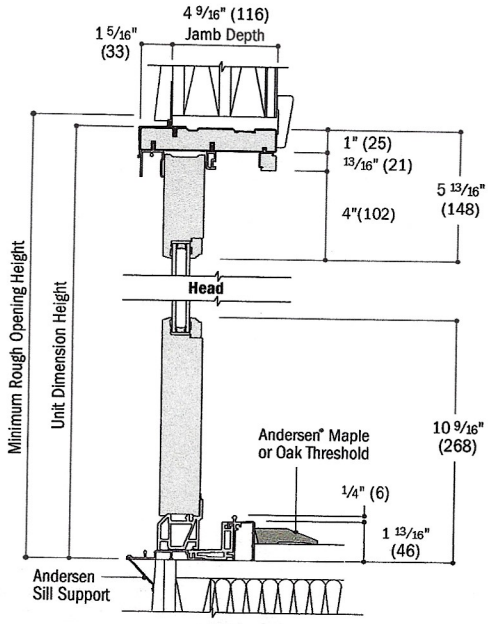
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Vertical Section



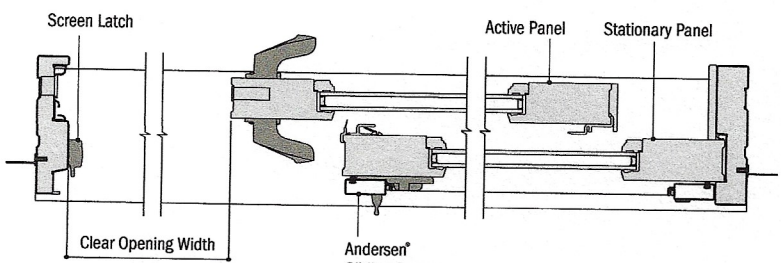
Vertical Section



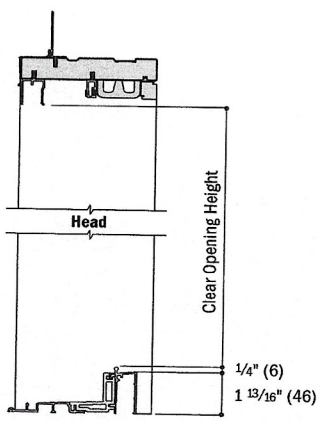
Vertical Section
Stationary

Clear Opening Details

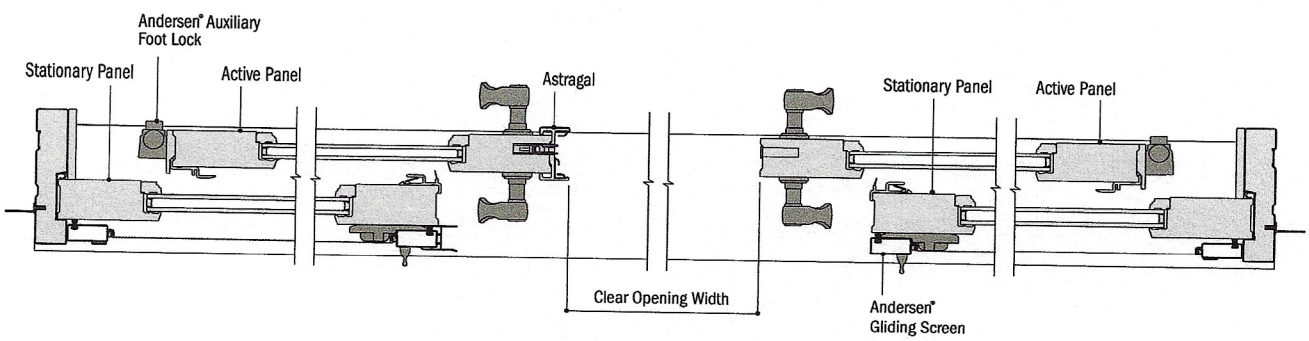
Scale 1 1/2" (38) = 1'-0" (305) – 1:8



Horizontal Section
Two-Panel



Vertical Section



Horizontal Section
Four-Panel

- 4 9/16" (116) overall jamb depth measurement is from back side of installation flange.
- Light-colored areas are parts included with door. Dark-colored areas are additional Andersen® parts required to complete door assembly as shown.
- **Minimum rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.**
- Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at andersenwindows.com.
- Dimensions in parentheses are in millimeters.

MODERN FARMHOUSE 9 LITE GLASS HEMLOCK WOOD FRONT DOOR

SKU: DF-439 : DF.439.30.68.134

$1,530.00

By Krosswood

Size

36" Wide x 80" Tall x 1-3/4" Thick

Quantity

1

Select Door Kit *

ADD TO CART

DESCRIPTION | OVERHANG REQUIREMENT | FAQ

The Modern Farmhouse Prairie Lite Glass Window Hemlock Wood Exterior Door from Krosswood Doors creates a stunning entryway that will transform your home with warm wood grain and plenty of natural light. This statement wood door is engineered for strength and longevity with doweled construction and features nine clear glass windows. Rot-resistant hemlock provides a smooth surface for painting or staining to ensure that your door will stand the test of time. Discover the perfect door for you with our customizable size, layout, and stain options.

- Engineered hemlock stiles and rails and solid core ensure durability
- Full thickness solid wood panel measuring 1-3/4 in.
- Center floating panel allow for expansion and contraction to withstand environmental changes
- Sturdy, doweled construction
- Beveled clear glass panes
- Insulated and tempered safety glass with low-E coating for energy efficiency
- TDL (True Divided Lite) glass windows
- Compatible with most smart lock and smart WIFI doorbell devices
- 1-Year limited warranty
- Smooth surface takes paint or stains easily
- Stained doors come with your choice of Minwax stain and a clear Helmsman Spar Urethane topcoa
- **1-Year Limited Warranty**
- Requires a stain or finish on all 6 sides to seal properly
- Must have adequate overhang over door (see warranty for details)
- Brickmold and interior trim not included

WHAT'S INCLUDED WITH PREHANGING?

- Exterior hinges
- Primed, ready to paint wood jamb
- Double boreholes
- Adjustable inswing threshold
- High performance weather-stripping helps to seal out drafts

Reviews

Color Options

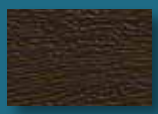
Wood Grain


Bi-Directional American Walnut*


Bi-Directional English Oak*


Bi-Directional Ash*


Bi-Directional Mahogany*


Uni-Directional American Walnut


Uni-Directional English Oak


Uni-Directional Ash


Uni-Directional Mahogany


Uni-Directional Graywood

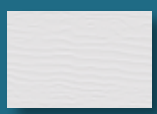

Cedar Plank


American Walnut Plank


English Oak Plank

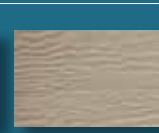
Plank and Bi-Directionals color options feature a light stucco embossment.
Uni-Directionals color options feature a wood grain embossment.
*Bi-Directional colors are available on 60, 61, 63, and 64 models with or without windows. They are only available on 71, 72, 73, 74, 81 and 82 models without windows.

Solid


Polar White


Almond


Sahara Tan


Sandstone


Trinar® Beige


Bronze**


Trinar® Brown**


Brown**


Espresso**


Gray


Charcoal**

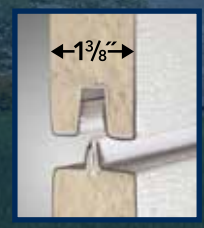

Carbon Black**

**These colors include a cool chemistry paint finish but is not recommended for projects with extreme exposures to heat and sunlight.

Due to the printing process, colors may vary.
For accurate color samples, contact a Haas Door dealer for a color selector.

FEATURES

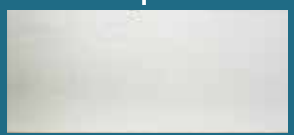
- 1⅜" Thick with Full Thermal Break
- 0.106 Tested U-Factor
- Environmentally Compliant Polyurethane Insulation
- 26-Gauge Galvanized Steel
- Available with Wind Load & Impact Options
- Decorative Glass Options (pg 27)
- SelectView Options (pg 22-23)
- 37 Window Options (pg 24-27)
- Industry Leading Warranty (pg 30)
  - Lifetime Rust-Through & Delamination
  - Finish Warranty (pg 30)
  - 6 Year Hardware
  - 3 Year Spring
  - 1 Year All Other Components



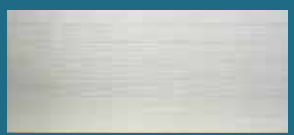
A **Full Thermal Break** is used in the tongue-and-groove construction of all 600 series doors. This rigid vinyl extrusion seals the joints and eliminates metal-to-metal contact, which limits the transfer of temperature.


673 in sandstone

Panel Options



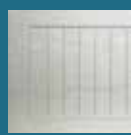
Flush Panel
Model 610
All colors except Bi-Directional wood grains
Carriage Windows p25 & 27
Ranch Windows p26 & 27
TL Windows p26
Standard Windows p24 & 27
SlimLine Windows p26



V-Groove Panel
Model 612
All colors except Bi-Directional wood grain & Plank options
Carriage Windows p25 & 27
TL Windows p26
SlimLine Windows p26

Ribbed Short Panel
Model 660
Carriage Windows p25 & 27
Model 672
Ranch Windows p26 & 27
Model 682◊
Standard Windows p24 & 27

Recessed Short Panel
Model 661
Carriage Windows p25 & 27
Model 671
Ranch Windows p26 & 27
Model 681◊
Standard Windows p24 & 27



Ribbed Lo
Model 664
Carriage Windo
Model 674◊
Ranch Windo

Haas Door
A Nofziger Company

600 series

600 Series / 1 3/8" thick / 0.106 Tested U-Factor

668 in carbon black with 3-pane windows

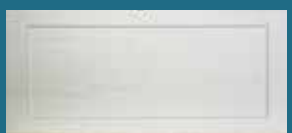
LIMITED LIFETIME WARRANTY

Texas/Non-Texas Wind Load
Impact/Non-Impact

Florida/Non-Florida Wind Load
Impact/Non-Impact

MIAMI-DADE COUNTY APPROVED

ng Panel
dows p25 & 27
ws p26 & 27



Recessed Long Panel
Model 663
(Not available in 24" sections)
Carriage Windows p25 & 27
Model 673◊
(Not available in 24" sections)
Ranch Windows p26 & 27

Raised Ranch Panel
Model 670
Ranch Windows p26 & 27
Model 667◊
Carriage Windows p25 & 27
Model 687◊
Standard Windows p24 & 27

Raised Standard Panel
Model 680
Standard Windows p24 & 27
Model 668◊
Carriage Windows p25 & 27
Model 678◊
Ranch Windows p26 & 27

Raised Sculptured Panel
Model 690
Standard Windows p24 & 27
Model 669◊
Carriage Windows p25 & 27
Model 679◊
Ranch Windows p26 & 27

◊ = Due to variances in window sizes, not all window and panel stamp configurations align.

Insulated Steel