



April 20, 2021

CERTIFICATE OF APPROPRIATENESS

Melissa and Keith Johnson
757 Bethune
Detroit, MI 48202

RE: Application Number 21-7159; 757 Bethune, New Center Historic District

Dear Mrs. and Mr. Johnson:

At the regularly scheduled meeting held virtually on April 14, 2020, the Detroit Historic District Commission ("Commission") reviewed the above-referenced application for building permit. Pursuant to Section 5(10) of the Michigan Local Historic District Act, as amended, being MCL 399.205, MSA 5-3407(5)(10) and Section 21-2-73 of the 2019 Detroit City Code; the Commission has reviewed the above-referenced application for building permit and hereby issues a Certificate of Appropriateness, which is effective as of April 20, 2021.

The following proposed work meets the defined elements of design for the historic district and the Secretary of the Interior's Standards for Rehabilitation and guidelines for rehabilitating historic buildings (36 CFR Part 67).

- Erection of a 614 square foot, single-story rear addition with a second-floor walkout porch above. The addition will extend from the south elevation of the existing two-story, single family residence.
- The addition will require the removal of three existing wood double-hung (one-over-one) windows, one non-original rear entry door with metal screen door, and a small, open concrete raised porch with wood railing.
- The removed windows and door will be repaired and installed within the addition.
- The existing rear yard concrete walk will be removed and a new concrete walk, of similar angular design, will be poured to reconnect the detached garage and the house.

Materials

Roof:

IKO, Cambridge asphalt dimensional shingle, color: Harvard Slate (matching house)

Walls:

Belden Brick, Modular – 3-5/8" x 2-1/4" x 7-5/8", running bond pattern, color: Belcrest 560. New masonry walls to be painted Rookwood Red to match the existing painted masonry walls.

Fascia:

Wood fascia, brackets profile, cadence, size and color (Birdseye Maple) to match existing

Windows:

The three existing windows on the rear elevation will be reused in the proposed addition.

New windows: Pella, Reserve Traditional - The exterior sash finish will match existing (wood exterior), and will be painted the color "Birdseye Maple: to match the remaining windows.

The one small window (W2) is a 2'-9"x2'-9" awning unit

The one double-hung (W1) is 2'-9"x5'-9" unit

The storm windows haven't been selected but will match the existing storms in material, frame dimension, operation, and color.

Stone sills, matching existing window sills in dimension and placement, will be placed below window openings.

Gutters/Downspouts:

Gutters, K-style 5-inch, color: white

Downspouts, 3" x 4", color: white

Walk-out Porch Deck:

TPO, a single-ply membrane roofing, color: not selected, but applicant is considering black.

Rear Entry Porch:

Base: CMU, color: Rookwood Red

Stairs: Poured concrete, natural finish

Railing: Pressure-treated wood, colors: Rookwood Red, Birdseye Maple, Renwick Olive

The COA was issued with the following conditions:

- The decorative brackets will be removed from the addition.
- The color of the TPO membrane roofing will be submitted to staff for review.
- The addition will be inset at least one brick width to offset the new construction from the existing structure.
- A catalog cut confirming design, material and color of the door leading to the porch will be submitted for review.
- A revised site plan will be submitted to show the location of the a/c unit.
- Paint specifications will be submitted to staff to confirm that a vapor-permeable masonry paint will be used on the historic house.
- Should BSEED require a 3'-0" setback from the side property line, the Commission authorizes staff authority to review the revised footprint of the addition.

Please retain this COA for your files. You should now proceed to obtain a building permit from the City of Detroit Buildings, Safety, Engineering and Environmental Department. It is important to note that approval by the Detroit Historic District Commission does not waive the applicant's responsibility to comply with any other applicable ordinances or statutes.

For the Commission:



Audra Dye
Staff, Detroit Historic District Commission

Scope of work for 757 Bethune is adding 600sqft at the 1st floor with a second-floor walkout balcony along the south façade of an existing two-story single-family residence within the New Center Historic District.

The existing home exterior finishes are:

- Brick throughout the exterior painted Rookwood Red
- Stone sills at windows,
- Brackets on fascia running round the entire home
- Primarily a hip style roof with asphalt shingles.

The addition will require the removal of three existing windows, a door with a metal screen door, and a concrete porch with rotting wood posts and railings. All windows and doors removed will be refurbished and reinstalled in the addition. New windows and doors beyond the refurbished windows and door will match the existing style and color.

The exterior of the addition to continue with the following finishes:

- Brick exterior in a running bond pattern, painted Rookwood Red
- Stone sills at windows
- Hip roof style along the west and south with matching asphalt shingles
- Facia size, brackets profile, cadence, size, and colors to match existing.

Building Description:

THE BUILDING IS A TWO-STORY SINGLE FAMILY HOME WITHIN A HISTORIC DISTRICT OF THE CITY OF DETROIT WITH PRIMARY BRICK EXTERIOR.

Project Description:

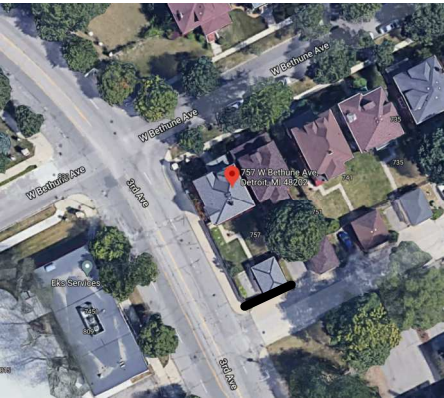
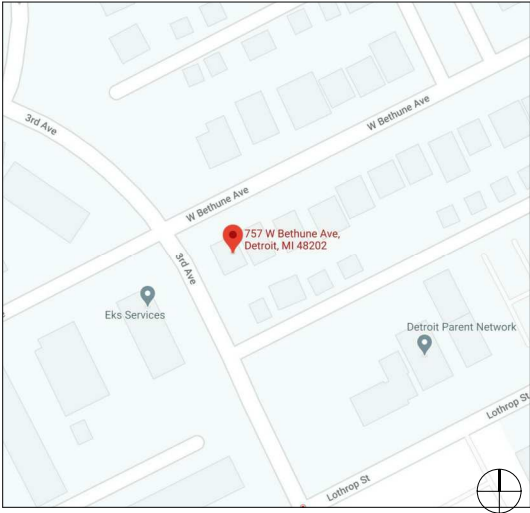
THE PROJECT IS ADDING A 614SQFT FIRST FLOOR ADDITION TO THE SOUTH END OF THE BUILDING AND A WALK OUT BALCONY ON THE SCEOND FLOOR.

Johnson Expansion

757 BETHUNE
DETROIT, MI

DESIGN DEVELOPMENT

location map



EXISTING SITE PLAN

1" = 60'-0"

owner:
THE JOHNSONS
Detroit, MI
architect:
developARCHITECTURE
Southfield, Michigan

contractor:
T.B.D.
City, State



PRELIMINARY SITE PLAN

1/8" = 1'-0"

SYMBOLS

 LARGE SCALE PLAN LOCATOR ELEVATION DETAIL LOCATOR DETAIL LOCATOR	 AREA TAG AREA NAME ROOM TAG ROOM NAME AREA ROOM NUMBER SEE ROOM FINISH SCHEDULES FOR ADDITIONAL ROOM AND FINISH INFORMATION	 INDEX NUMBER INDEX LETTER SHEET NUMBER OF DETAIL	 KEYNOTE INDICATOR LEVEL NAME LEVEL HEIGHT LEVEL INDICATOR NORTH DIRECTION INDICATOR
 BUILDING WALL SECTION LOCATOR	 CENTERLINE INDICATOR COLUMN LINE	 MATERIAL INDICATOR REFER TO FINISH SCHEDULES	 NORTH
 CEILING INDICATOR CEILING TYPE CEILING HEIGHT ACTUAL DIMENSION APPROXIMATE DIMENSION FOR COORDINATION, V.I.F.	 DOOR DOOR NUMBER PUSH CLEARANCE REQUIRED DOOR NUMBER SEE DOOR SCHEDULES FOR ADDITIONAL DOOR INFORMATION	 PARTITION TYPE NUMBER - WALL/FLOOR	 REVISION NUMBER INDICATES REVISIONS IN CLOUDED AREAS. REVISION NUMBER CORRESPONDS TO REVISION DATE ON TITLE STRIP.
 DIMENSION LINES	 SPOT ELEVATION INDICATOR	 WINDOW TYPE INDICATOR	

1. ALL BIDDERS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND PROJECT REQUIREMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY ERRORS OR OMISSIONS THUS RECOGNIZED.
2. THE CONTRACT DOCUMENTS ARE COMPRISED OF THE DRAWINGS AND PROJECT MANUAL IN THEIR ENTIRETY AND THE INFORMATION IN THESE DOCUMENTS IS DEPENDENT UPON AND COMPLIMENTARY OF EACH OTHER SEPARATION OF THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED. IF THE CONTRACTOR CHOOSES TO SEPARATE THE DOCUMENTS THEY DO SO AT THEIR OWN RISK AND EXPENSE.
3. ALSO SEE NOTES ON THIS SHEET.

HATCH LEGEND

BRICK	BLOCK	ALUMINUM	WOOD	STONE	STEEL	SAND/GROUT/ MORTAR	RIGID INSULATION	PLYWOOD	GYPSPUM PLASTER	GRAVEL	EARTH

Drawing List

Sheet Number	Sheet Name	SET NAME - DATE
ARCHITECTURAL		
B101	DEMOLITION PLANS/ELEVATIONS	
B300	EXISTING EXTERIOR PHOTOS	
B301	EXISTING CONDITIONS	
ARCHITECTURAL		
A101	FIRST FLOOR PLAN	
A201	EXTERIOR ELEVATIONS	

CODE SUMMARY

APPLICABLE BUILDING CODES:
THE CODE ANALYSIS IS BASED ON THE 2015 MICHIGAN RESIDENTIAL BUILDING CODE
CODE LIST IS NOT NECESSARILY EXHAUSTIVE OF ALL CODES HAVING JURISDICTION

EXISTING BUILDING INFORMATION:
ZONING: R1-H (HISTORICAL DISTRICT)
LOT SIZE: 3,990 SF (SMALL LOT PER DETROIT ORDINANCE SECTION 50-13-254)
ALLOWABLE LOT COVERAGE: 1,500 SF
ACTUAL LOT COVERAGE: 1,818 SF
ALLOWABLE HEIGHT: 35'-0"
ACTUAL HEIGHT: 2 STORY / 30'-0"

ABBREVIATIONS

Ø A.F.F. ACOUS. ADJ. AHU. ALUM. A.B. BRG. BDRM. BLK. BLKG. B/C BD. BOT. B.O. BLDG. C.B. CLG. CL OR C.O. C.W. COL. CONC. C.M.U. CONT. C.J. COORD. C.M.P. C.F.M. DET. DIA. DIV. DR. D.B.L. DN. D.S. DWG. E.W. E.W.C ELEV. EQUIP. EXIST. F.E. F.E.C. FLUOR. FL. F.D. FT. FTG. GA. G.F.I. G.S.F. G.B. H.C. HT. H.P.S. H.M.	DIAMETER ABOVE FINISHED FLOOR ACOUSTICAL CEILING TILE ADJUSTABLE AIR HANDLING UNIT ALTERNATE ALUMINUM ANCHOR BOLT BEARING BEDROOM BLOCK BLOCKING BACK OF CURB BOARD BOTTOM BOTTOM OF BUILDING CATCH BASIN CEILING CENTER LINE CLEAN OUT COLD WATER COLUMN CONCRETE CONCRETE MASONRY UNIT CONTINUOUS CONTROL JOINT COORDINATE CORRUGATED METAL PIPE CUBIC FEET PER MINUTE DETAIL DIAMETER DIVISION DOOR DOUBLE DOWN DOWNSPOUT DRAWING EACH WAY ELECTRIC WATER COOLER ELEVATION EQUIPMENT EXISTING FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FLUORESCENT FLOOR FLOOR DRAIN FOOT FOOTING GAUGE GROUND FAULT INTERRUPTER GROSS SQUARE FEET GYPSUM BOARD HANDICAP HEIGHT HIGH PRESSURE SODIUM HOLLOW METAL	HORIZ. INSUL. INT. INV. JT. LAM. LVL. LT. L.F. L.L.V. L.L.H. MANHOLE MFR. M.O. MAX. MECH. MTL. MIN. MTO. N.S.F. N.I.C. N.T.S. NO. O.C. OPNG OPP. O.S.B. PR. P.S.F. P.S.I. PL. P.LAM. PLYWD. P.T. RAD. REQUIRED REINFC. ROD AND SHELF R.D. SCHED. SHT. SIM. SPECS. SQ. S.F. S.S. STD. STL. THK. T&G T.O. TYP. U.N.O. V.B. VERT. V.T. W/ W/O	HORIZONTAL INSULATION INTERIOR INVERT JOINT LAMINATE LAMINATED VENEER LUMBER LIGHT LINEAL FEET LONG LEG VERTICAL LONG LEG HORIZONTAL MANHOLE MANUFACTURER MASONRY OPENING MAXIMUM MECHANICAL METAL MINIMUM MOUNTED NET SQUARE FEET NOT IN CONTRACT NOT TO SCALE NUMBER ON CENTER OPENING OPPOSITE ORIENTED STRAND BOARD PAIR PER SQUARE FOOT PER SQUARE INCH PLATE OR PROPERTY LINE PLASTIC LAMINATE PLYWOOD PRESERVATIVE TREATED RADIUS REQUIRED REINFORCING ROD AND SHELF ROOF DRAIN SCHEDULE SHEET SIMILAR SPECIFICATIONS SQUARE SQUARE FEET STAINLESS STEEL STANDARD STEEL THICK TONGUE & GROOVE TOP OF TYPICAL UNLESS NOTED OTHERWISE VAPOR BARRIER VERTICAL VINYL TILE WITH WITHOUT
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Johnson Expansion

757 BETHUNE
DETROIT, MI

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DESIGN DEVELOPMENT

DATE: 3-21-21
PROJECT #: 19006

Description Date

COVER SHEET

G001

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25600 Larkins Southfield, MI
48034
P: 248-514-0253



2
B101



1/4" = 1'-0"

[illegible]

- 1 REMOVE FLOORING AND PREP FOR NEW
- 2 REMOVE WALL AND PREP FOR OPENING
- 3 REMOVE AND SALVAGE EXISTING WINDOW AND
FRAME, REFER TO B301 FOR EXISTING IMAGES
OF WINDOW
- 4 REMOVE AND SALVAGE EXISTING DOOR,
METAL SCREEN DOOR, AND FRAMES, REFER
TO B301 FOR EXISTING IMAGES
- 5 REMOVE EXISTING STAIRS , RAILINGS, AND
POSTS
- 6 REMOVE AND SALVAGE EXISTING STONE SILL,
REFER TO B301 FOR EXISTING IMAGES OF
WINDOW
- 7 REFRIGERATOR TO BE REMOVED AND REUSED
- 8 REMOVE COUNTERTOPS, UPPER AND BASE
CABINETS
- 9 EXISTING BRICK CHIMNEY TO BE EXPOSED

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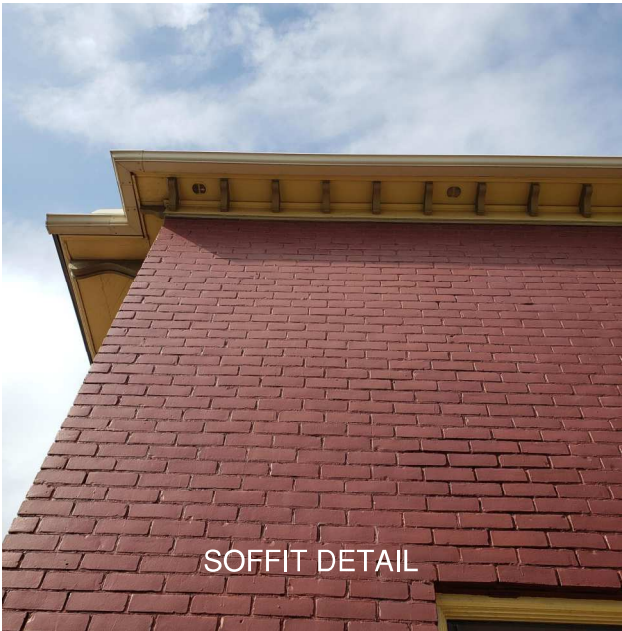
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#	Description	Date
1	1000	10/10/10
2	2000	10/10/10
3	3000	10/10/10
4	4000	10/10/10
5	5000	10/10/10
6	6000	10/10/10
7	7000	10/10/10
8	8000	10/10/10
9	9000	10/10/10
10	10000	10/10/10

B101

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SOFFIT DETAIL



BAY WINDOW DETAIL



RAILING



SOUTHWEST ELEVATION



GARAGE NORTH ELEVATION



SOUTH ELEVATION



BACK DOOR LIGHTFIXTURE



BACK DOOR LIGHTFIXTURE



BACK DOOR ADDRESS



NORTH ELEVATION



NORTHEAST ELEVATION

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DESIGN DEVELOPMENT

DATE: 3-21-21

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Description Date

EXISTING EXTERIOR PHOTOS

B300

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48034
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EXTERIOR WINDOW CONDITION



INSIDE WINDOW CONDITION

EX-W2
HEIGHT - 5'-1.5"
WIDTH - 2'-7"
MATERIAL - WINDOW - WOOD,
STORM - ALUMINUM



INSIDE WINDOW CONDITION

EXISTING WINDOW IMAGES (EX-W2)



EXTERIOR WINDOW CONDITION



INSIDE WINDOW CONDITION

EX-W3
HEIGHT - 5'-1"
WIDTH - 2'-6"
MATERIAL - WINDOW - WOOD,
STORM - ALUMINUM



INSIDE WINDOW CONDITION

EXISTING WINDOW IMAGES (EX-W3)

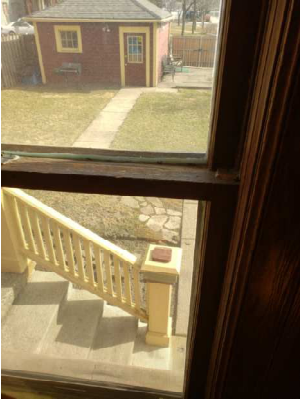


EXTERIOR WINDOW CONDITION



INSIDE WINDOW CONDITION

EX-W1
HEIGHT - 5'-9"
WIDTH - 2'-9"
MATERIAL - WINDOW - WOOD,
STORM - ALUMINUM



INSIDE WINDOW CONDITION

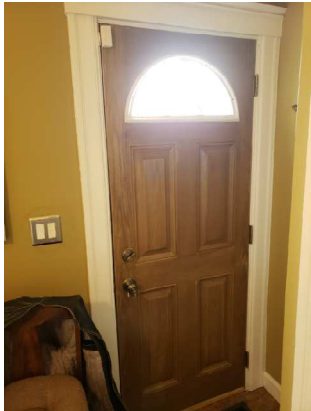
EXISTING WINDOW IMAGES (EX-W1)



EXTERIOR STORM DOOR CONDITION



EXTERIOR DOOR MANUFACTURER



INSIDE DOOR CONDITION



EXTERIOR DOOR CONDITION

EXISTING DOOR IMAGES (EX-D1)

Johnson
Expansion

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DESIGN
DEVELOPMENT

DATE: 3-21-21
PROJECT #: 19006

Description Date

EXISTING
CONDITIONS

B301

develop
ARCHITECTURE

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C:\Users\bryan\Desktop\Integrator\04 Operations\00 Projects\19 Projects\190006 The Johnsons\03-DD\21 Johnsons_DD.rvt

Johnson
Expansion

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DESIGN
DEVELOPMENT

DATE: 3-21-21
PROJECT #: 19006

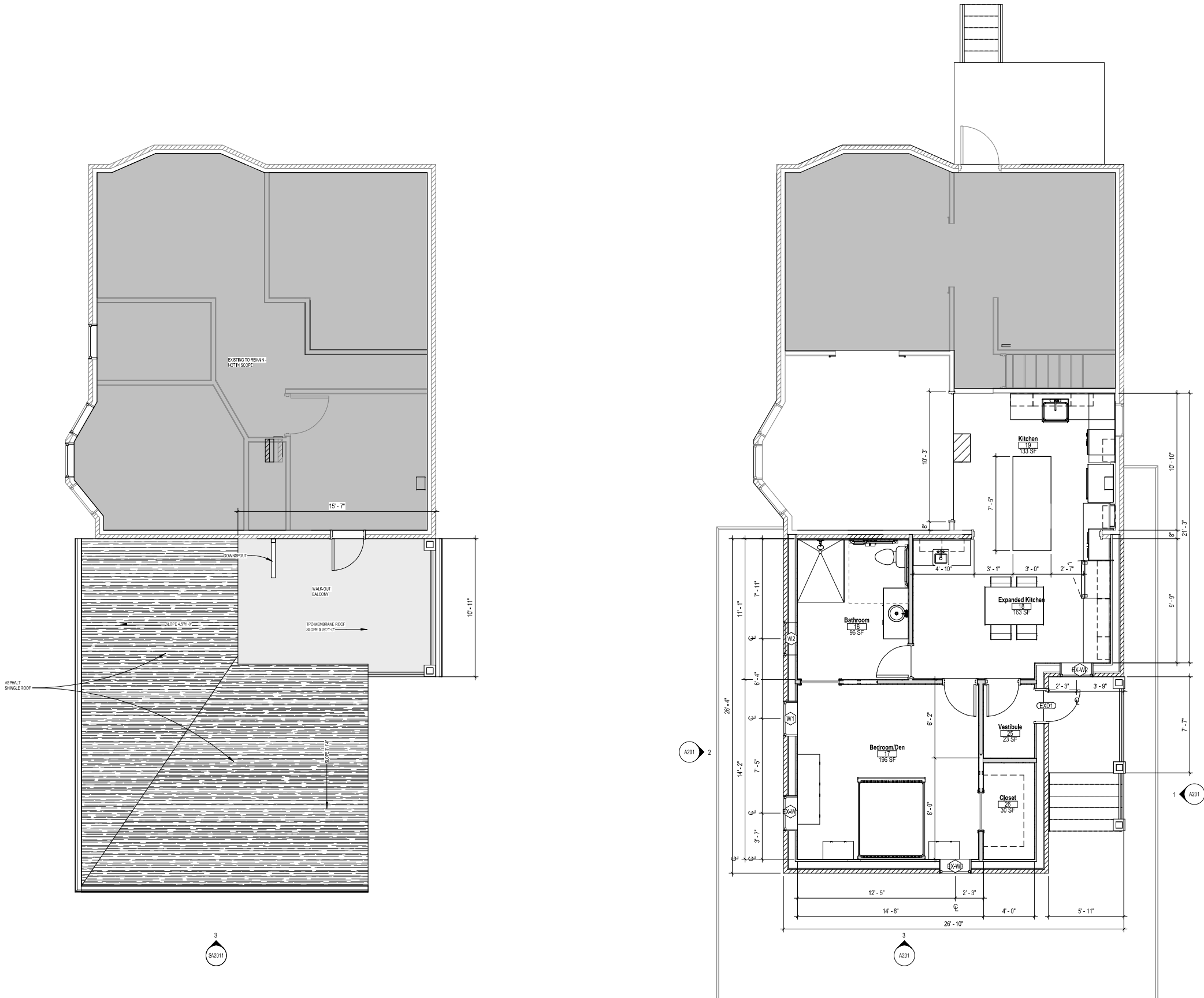
Description Date

FIRST FLOOR
PLAN

A101

develop
ARCHITECTURE

25500 Larkins Southfield, MI
48034
P: 248-514-0253



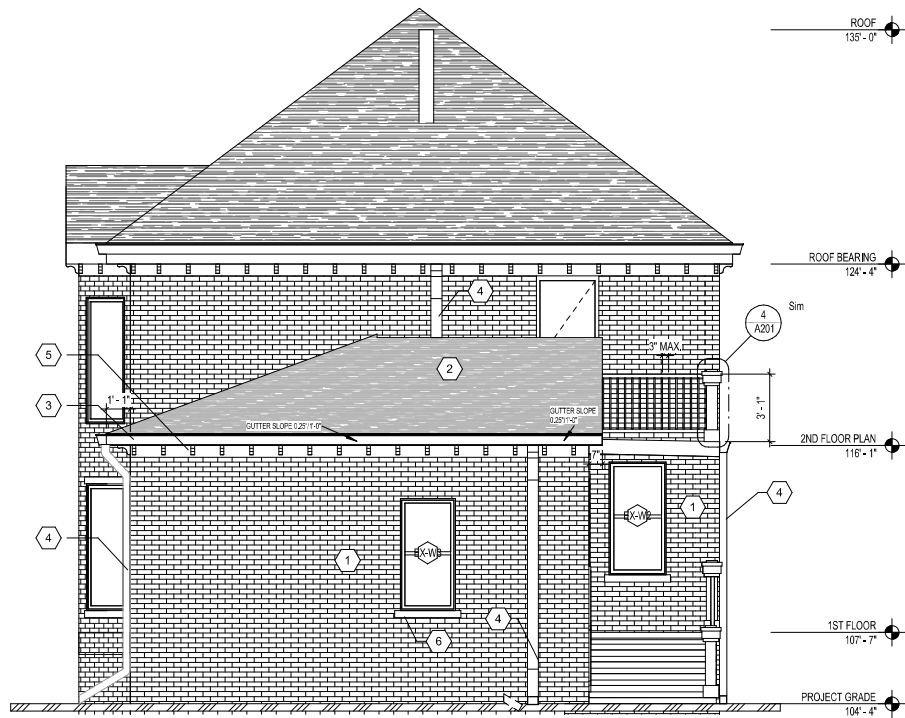
2ND FLOOR PLAN

1/4" = 1'-0"

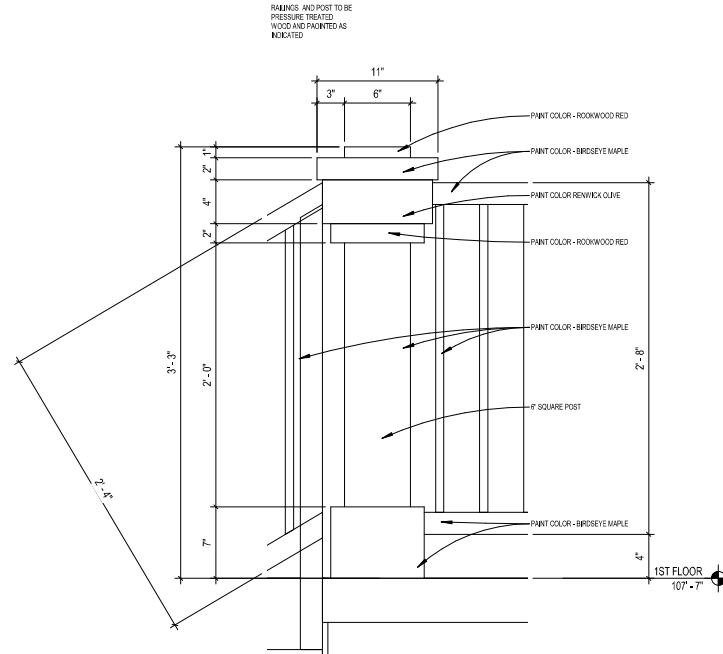
1ST FLOOR PLAN

1/4" = 1'-0"

C:\Users\bryan\Desktop\Integrator\04 Operations\00 Projects\19 Projects\190006 The Johnsons\03-DD\21 Johnsons_DD.rvt



3
A201
PROPOSED SOUTH ELEVATION
1/4" = 1'-0"



4
A201
RAILING POST DETAIL - TYPICAL
1 1/2" = 1'-0"



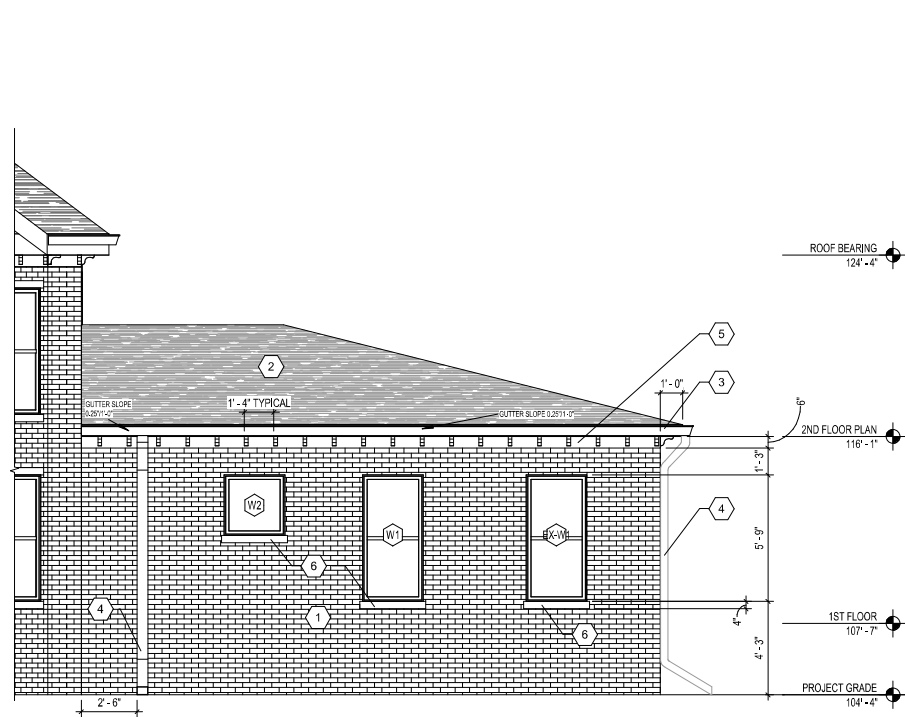
EXISTING EXTERIOR PAINT COLORS

Johnson Expansion

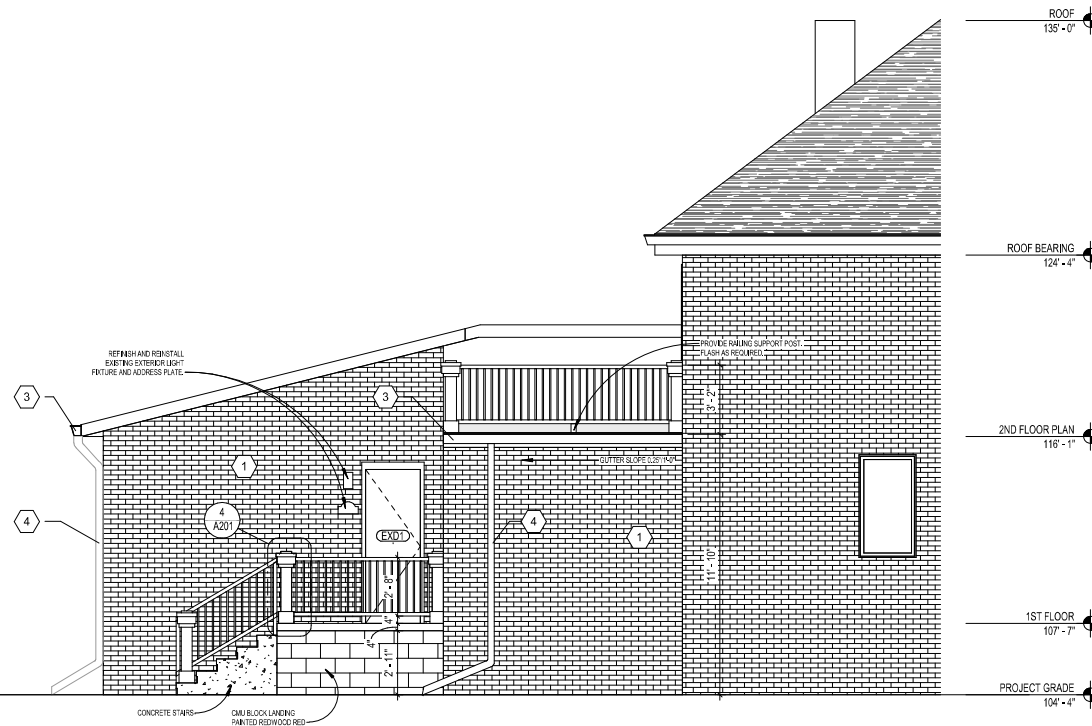
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2
A201
PROPOSED WEST ELEVATION
1/4" = 1'-0"



1
A201
PROPOSED EAST ELEVATION
1/4" = 1'-0"

CODED NOTES - EXTERIOR...		
1	BRICK - RUNNING BOND - PAINTED "ROOKWOOD RED"	
2	ASPHALT SHINGLES - ESTATE GREY	
3	6" ALUMINUM GUTTER - PROFILE K	
4	6" ALUMINUM DOWNSPOUT	
5	WOOD FASCIA WITH BRACKETS	
6	STONE SILL	

DESIGN DEVELOPMENT

DATE: 3-21-21
PROJECT #: 19006

Description Date

EXTERIOR ELEVATIONS

A201

develop
ARCHITECTURE

25500 Larkins Southfield, MI
48034
P: 248-514-0253



Pella® Reserve™ Traditional Hung Window

Size and Performance Data

Air/Water/Structural Performance₁

Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂	0.11
Water Resistance	4.6 - 7.5 psf
Design Pressure	30 - 50 psf

Other Performance Criteria

Forced Entry Resistance Level (Minimum Security Grade) ₃	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄	40/45

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested ₅	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Reserve Clad Double-Hung Window	WITH INTEGRAL GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	29	26
	45" x 65"	11/16"	3mm	5mm	—	34	30
	45" x 65"	11/16"	3mm	6mm Laminated	—	35	30
	WITH REMOVABLE OR NO GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	28	24
	45" x 65"	11/16"	3mm	5mm	—	32	28
	45" x 65"	11/16"	3mm	6mm Laminated	—	33	28

(—) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.

(2) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.

(3) The higher the level, the greater the product's ability to resist forced entry.

(4) Glazing configurations may result in higher operational forces

(5) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.



Pella® Reserve™ Traditional Hung Window

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Insulating Glass	–
Insulated Glass Options/Low-E Types	
	SunDefense™ Low-E
	AdvancedComfort Low-E
Advanced Low-E	NaturalSun Low-E
	Clear (no Low-E coating)
Additional Glass Options	
	Tempered Glass
	Obscure Glass ¹
Annealed Glass	Low-E Tinted Glass (Bronze, Gray and Green)
	Non-Impact Laminated Dual-Pane Insulating Glass
Gas Fill/High Altitude	
Argon	High altitude
Exterior	
Exterior Sash Profile	
Ogee	Putty Glaze
Exterior Finish	
EnduraClad® aluminum-clad exterior	EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior
Cladding Colors	
27 Standard colors ¹	Custom Colors ¹
Interior	
	Factory primed
Unfinished wood	Factory prefinished paint ¹
	Factory prefinished stain ¹
Wood Types	
Pine	Mahogany, Douglas Fir
Hardware	
Hardware Types	
	Simulated lock
Sash lifts, Cam-action lock	Air conditioner lock
	Historical spoon-style lock (surface mounted)
Hardware Finishes	
Champagne, White, Brown or Matte Black	Bright Brass, Satin Nickel, Oil-Rubbed Bronze, Antique Brass, Distressed Bronze, Distressed Nickel ⁴
Tilt-Wash Cleaning	
Tilt to interior on both sashes	–
Grilles	
Integral Light Technology® Grilles	
–	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Roomside Removable Grilles	
–	Traditional, Prairie, Custom
Grilles-Between-the-Glass	
–	Traditional, Prairie, Top Row ¹ , Cross, Custom-Equally Divided
Screens	
–	Integrated Rolscreen® - retractable screen, InView™ screens, Vivid View® screens, in standard roll-form or premium extruded aluminum frame

(–) = Not Available

(1) Contact your local Pella sales representative for current designs and color options.

(2) Only available for Pella Reserve products with triple glazing. Not available with high altitude glazing.

(3) Available with Low-E argon-insulated glass only.

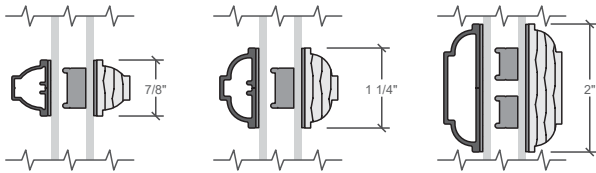
(4) Antique Brass, Distressed Nickel, Distressed Bronze finishes available for Historical spoon-style lock only.



Integral Light Technology® Grilles

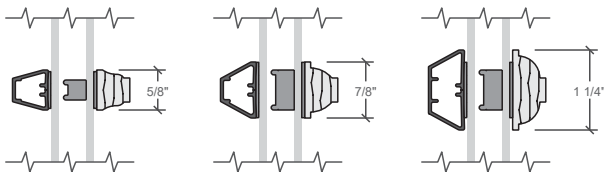
Ogee Grilles

Clad Exterior - Wood Interior



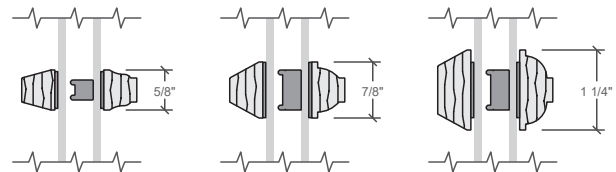
Putty Glaze and Ogee Grilles

Clad Exterior - Wood Interior

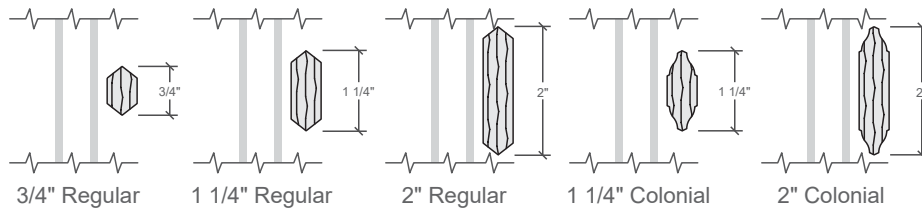


Putty Glaze and Ogee Grilles

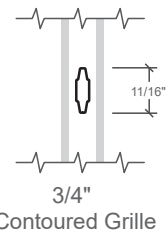
Wood Exterior - Wood Interior



Roomside Removable Grilles



Grilles-Between-the-Glass



Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Pella® Reserve™ Traditional Hung Window

Special Sizes and Dimensions

Special Size Frame Dimensions*

Sash configuration	Vent-Equal	Cottage	Fixed
Sash Glass Ratio Top % : Bottom %	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (619)	40-1/4" (1 022)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1 803)
Unit Frame Width Range	14" to 48" (356 to 1 219)	14" to 48" (356 to 1 219)	17" to 59" (432 to 1 499)

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

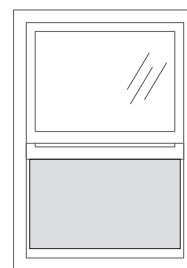
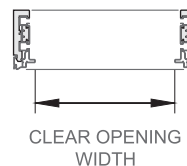
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Equal Sash Only

	Vent Units	Fixed and Transom Units
Visible Glass	Width = Frame - 5.647" Height = (Frame - 8.681") ÷ 2	Width = Frame - 5.75" Height = Frame - 5.75"
Actual Glass	Width = Frame - 4.375" Height = (Frame - 5.983") ÷ 2	Width = Frame - 4.375" Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375" COH = (Frame Height ÷ 2) - 4.4375"	
Vent Area Ft²	(COW x COH) ÷ 144	



Shaded portion shows vent area.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

* Some units with custom glazing may have limited travel. Integrated Rolscreen® is only available on sizes greater than or equal to 34" tall and 21" wide and less than or equal to 84" tall and 48" wide.

See your local Pella sales representative for specific size information.



Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] [douglas fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] [douglas fir]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Double-Hung: Upper sash has surface-mounted wash locks for easy tilt-in cleaning [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed dual-pane 13/16" dual-seal insulating glass [[annealed] [tempered]], [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [NaturalSun Low-E] [AdvancedComfort Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]] [obscure] [Reflective Bronze].
- or -
- Silicone-glazed dual-pane 13/16" dual-seal [[annealed] [tempered]] non-impact laminated glass [[clear] [[Advanced Low-E] [SunDefense Low-E] with Argon]] [[bronze] [gray] [green] Advanced Low-E [with argon]].

Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [standard] [custom]₁.
- or -
- Aluminum-clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
 - Color is [standard] [custom]₁.

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain]₁].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Bright Brass] [Satin Nickel] [Oil-rubbed Bronze] [Antique Brass] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
 - Optional factory applied accessory. Exterior finish is [Standard₁] [Custom₁].

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany] [douglas fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
 - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" ogee profile] that are extruded aluminum.
 - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
- or -
- Grilles-Between-the-Glass₂
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
 - Interior color is [White] [Tan₃] [Brown₃] [Putty₃] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₄ is [standard]₁.
- or -

Roomside Removable grilles

- [[3/4"] [1-1/4"] [2"] traditional] [[1-1/4"] [2"] colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
- Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
- Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding₄].

Screens

- Integrated Rolscreen® (for rectangular units only)₆
 - Retractable screen integrated into [lower sash] [both upper and lower sash]. Screen rollers are fixed and concealed within the frame, screen is held to the sash by magnets which release when the bottom sash is tilted for cleaning, and when the upper sash is opened past 18".
 - InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.
- or -
- InView™ screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: [baked enamel] [anodized]], color to match window cladding.
- or -
- Vivid View® screens₇
 - [Half-Size] [Full-Size] PVDF 21 / 17 mesh, minimum 78 percent light transmissive screen, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: [baked enamel] [anodized]], color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

Sensors

- Optional factory installed integrated security sensors available in vent units.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available in clear or Low-E insulating glass only.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.

(5) Full screens are available on units ≤ 96" height.

(6) Integrated Rolscreen only available on sizes ≥ 34" tall and 21" wide, and ≤ 84" tall and 48" wide.

(7) Vivid View screen is not available when frame height is > 84" or when both frame width and frame height are > 48".



TruDefinition®

DURATION FLEX®

Shingles with Patented SureNail® Technology

Your shingles need to help protect your home on a daily basis. Duration FLEX® shingles are more flexible than standard shingles, for enhanced durability and performance in all environmental conditions, including storms and cold weather installation. And they're the only SBS modified polymer shingle that also comes with the advanced performance of patented SureNail® Technology for added confidence in windy conditions.

Duration FLEX® shingles include:

- Patented SureNail® Technology for exceptional wind resistance
- Limited Lifetime Warranty**/††
- 130-MPH Wind Resistance Limited Warranty**
- StreakGuard™ Protection with a 10-year Algae Resistance Limited Warranty**
- Popular color options, ranging from rich and subtle to lively and vibrant.



HELP PROTECT WITH THE POWER OF FLEX

Made with a proprietary blend of SBS polymer modified asphalt

The rubberizing effect of our uniquely blended SBS modified asphalt makes the shingles pliable and gives them greater flexibility than standard shingles. The result is a premium architectural asphalt shingle with enhanced durability and toughness, especially under intense storm conditions, to help deliver lasting protection for your home.

Duration FLEX® Shingles

- Feature SureNail® Technology which gives a **42% better nail-pull resistance** against the wind versus standard shingles.
- Have built-in flexibility to help resist cracking and tearing, in all-weather installation conditions — **over 10% stronger tear strength than traditional shingles.**
- **Lays flat faster** than standard shingles.
- Offer rubber-like flexibility to withstand expansion and contraction stresses and helps **minimize loss of granules** which help to protect the shingle against UV.
- Help absorb the energy of the impact of hail or storm debris; have the **highest impact rating possible**; UL 2218 Class 4 and may qualify for a homeowner insurance discount*.

LAYS FLAT FASTER

Duration FLEX® shingles are specifically formulated to lay flat more quickly than standard shingles in all weather conditions for a clean, finished look.





UL 2218, Class 4

Highest rating possible for impact resistance.

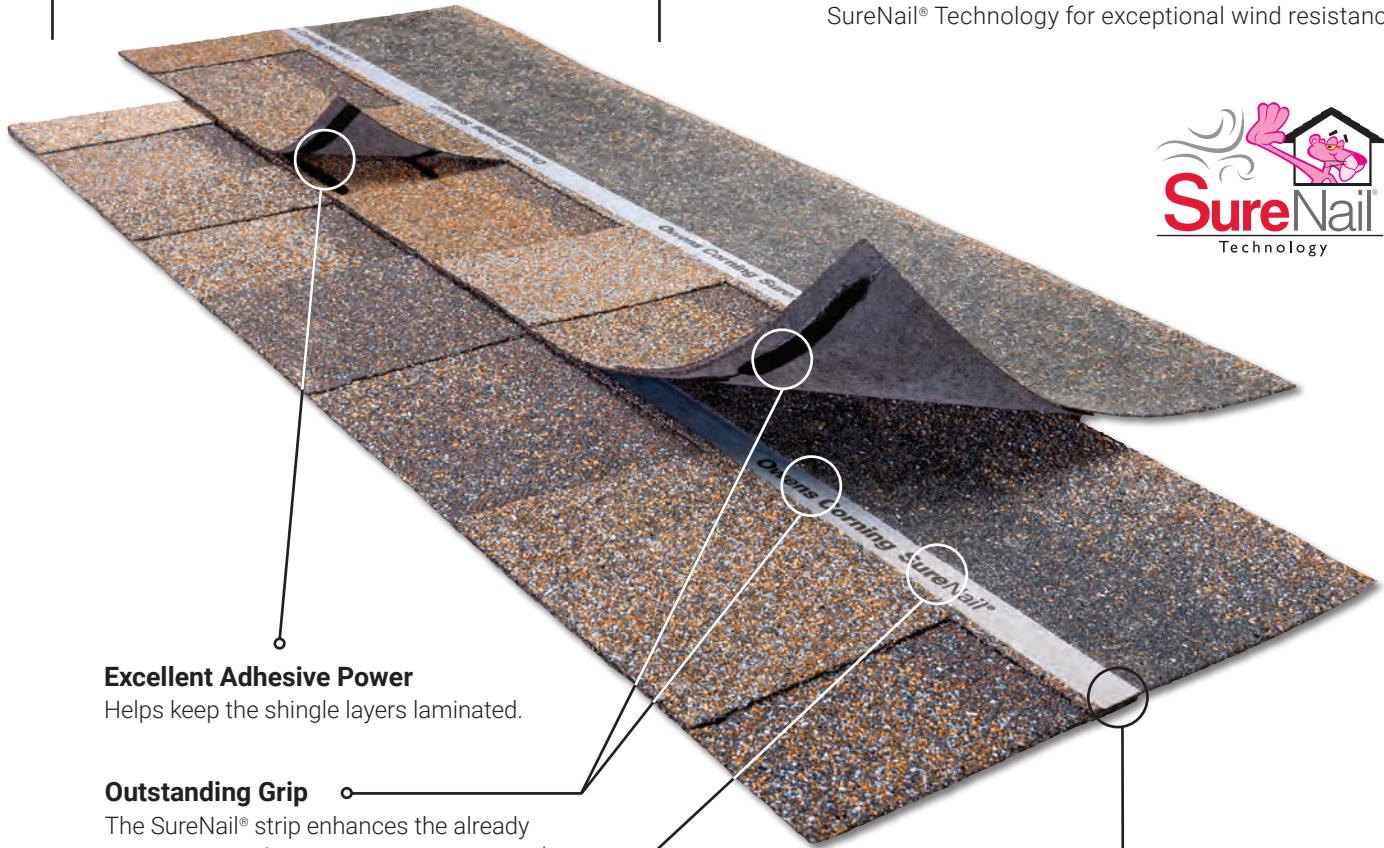
Flexible Shingles

Withstands shingle expansion and contraction; helps resist cracking and tearing.

THE ONLY SBS SHINGLE WITH SURENAIL® TECHNOLOGY

When performance is your priority, choose the shingle that offers you a material difference.

Duration FLEX® shingles are the only SBS modified polymer shingle with the added confidence of patented SureNail® Technology for exceptional wind resistance.



Excellent Adhesive Power

Helps keep the shingle layers laminated.

Outstanding Grip

The SureNail® strip enhances the already amazing grip of our proprietary Tru-Bond® sealant for exceptional wind resistance of a 130-MPH wind warranty.**

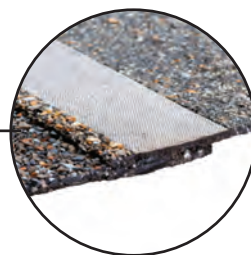


Breakthrough Design

Patented SureNail® Technology is the first and only reinforced nailing zone on the face of the shingle.

"No Guess" Wide Nailing Zone

This tough, engineered woven-fabric strip is embedded in the shingle to create an easy-to-see strong, durable fastener zone.



Triple Layer Protection***

A unique "triple layer" of reinforcement occurs when the fabric overlays the two shingle layers, providing increased protection against "nail pull" from the wind.

Double the Common Bond

SureNail® features up to a 200% wider bond between the shingle layers in the nailing zone over standard shingles.

TRUDEFINITION® DURATION FLEX® SHINGLES

Add style to your home with premium color blends in a continuum of choices from subtle to vibrant.

Rich, sophisticated classic hues



Brownwood[†]



Driftwood[†]



Estate Gray[†]



Onyx Black[†]



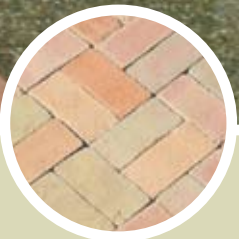
**SEE HOW YOUR SELECTED SHINGLE
COLOR WILL LOOK ON YOUR HOME.**

Try it out at [owenscorning.com/DEQ](https://www.owenscorning.com/DEQ)



Teak[†]

BELDEN
THE BELDEN BRICK COMPANY
125
YEARS
1885-2010



THE STANDARD OF COMPARISON
Since 1885

Molded Brick



ARTIC CLEAR



POLAR WHITE CLEAR



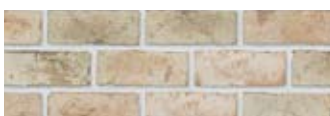
HARBOUR MIST BLEND



BAYPORT



ALAMO BLEND



BRIDGEPORT BLEND



MANCHESTER BLEND



MEADOW BLEND



ST. ANNE BLEND



ST. ANNE CLEAR



KINGSPORT



QUEENSPORT BLEND



WINEWOOD BLEND



ROSEWOOD CLEAR



ROSEWOOD BLEND



GARNET BLEND



BELCREST 170



BELCREST 310



BELCREST 360



BELCREST 500



BELCREST 560



BELCREST 650



BELCREST 730



BELCREST 760

Sizes

BRICK UNIT	APPROX. WT.	SIZE / INCHES (BD x H x L)	FACE / M.B.E.	UNITS PER SQ. FT. WALL (INC. 3/8" JOINT)	SIZE (MM)
MODULAR 	4.3 #	3-5/8" x 2-1/4" x 7-5/8"	1	6.86	92 x 57 x 194
STANDARD 	4.5 #	3-5/8" x 2-1/4" x 8"	1.05	6.55	92 x 57 x 203
JUMBO MODULAR 	5.1 #	3-5/8" x 2-3/4" x 7-5/8"	1.22	5.76	92 x 70 x 194
QUEEN 	5.6 #	3-1/8" x 2-3/4" x 9-5/8"	1.54	4.61	70 x 70 x 244
ROMAN 	4.7 #	3-5/8" x 1-5/8" x 11-5/8"	1.10	6.00	92 x 41 x 295
NORMAN 	6.3 #	3-5/8" x 2-1/4" x 11-5/8"	1.52	4.57	92 x 57 x 295
JUMBO NORMAN 	7.8 #	3-5/8" x 2-3/4" x 11-5/8"	1.86	3.84	92 x 70 x 295
AMBASSADOR 	8.4 #	3-5/8" x 2-1/4" x 15-5/8"	2.05	3.43	92 x 57 x 397
ECONOMO MODULAR 	6.6 #	3-5/8" x 3-5/8" x 7-5/8"	1.61	4.50	92 x 92 x 194
UTILITY 	10.5 #	3-5/8" x 3-5/8" x 11-5/8"	2.46	3.00	92 x 92 x 295
MONARCH 	13.5 #	3-5/8" x 3-5/8" x 15-5/8"	3.30	2.25	92 x 92 x 397
QUAD 	13.5 #	3-5/8" x 7-5/8" x 7-5/8"	3.39	2.25	92 x 194 x 194
DOUBLE UTILITY 	21.0 #	3-5/8" x 7-5/8" x 11-5/8"	5.17	1.50	92 x 194 x 295
DOUBLE MONARCH 	29.0 #	3-5/8" x 7-5/8" x 15-5/8"	6.94	1.13	92 x 194 x 397

TECHNICAL SUPPORT AND CONSULTATION

Our staff is available at all times to answer technical questions or consult with you on any aspect of your interest in brick. Call any one of our authorized distributors or call Bob Belden at our main office: (330) 456-0031.

GUIDE TO SPECIFYING DIVISION 4 SECTION 04210

PART II PRODUCTS

2.01 BRICK

- A. Facing Brick: All brick specified and shown on drawing shall be (product name) _____ as manufactured by The Belden Brick Company, Canton, Ohio.
1. ASTM C-216 _____, Grade SW Type _____
 2. Dimensions _____ X _____ X _____
 3. Minimum Compressive Strength: _____ Maximum IRA. _____
 4. Provide brick similar in texture, color and all physical properties to those available for inspection at the Architect/Engineer's office and/or as supplied on the approved sample panel.
 5. Shapes: All special shapes are to be used per architectural detail(s) # _____ as supplied to The Belden Brick Company.
- B. Mortar: Conventional mortar shall conform with ASTM C-270 under the guidelines provided in BIA Technical Notes, Series 8.

PART III EXECUTION

- A. Bonding: Lay masonry in _____ bond pattern as indicated.
Reference BIA Technical Note #30 for further recommendations.
- B. Tooling: Tooling shall conform to the guidelines provided in BIA Technical Notes 7B revised.
- C. Cleaning: Cleaning shall be as per guidelines in BIA Technical Note #20, Revised II.

All cleaning practices and product use shall also be in accordance with cleaning agent manufacturers printed instructions.

NOTES TO SPECIFIER:

ASTM DESIGNATION C-216-XX (with the last number being the year of the last update). All A grade Belden Brick complies with ASTM C-216-XX, grade SW (severe weathering).

A Type FBS – Brick for general use in masonry.

B Type FBX – Brick for general use in masonry where a higher degree of precision and lower permissible variation in size than permitted for type FBS is required.

C Type FBA – Brick for general use in masonry selected to produce characteristic architectural effects resulting from non-uniformity in size and texture of the individual units.

When the type is not specified the requirements for the type FBS shall govern.

The above is per ASTM Designation C-216-XX Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale).

A SAMPLING OF BELDEN BRICK AT WORK

Alice H. Cook House
Cornell University
Ithaca, NY
Kieran Timberlake Associates, LLP

American Airlines Center
Dallas, TX
David M. Schwarz
Architectural Services

AT&T Offices
Monmouth County, NJ
CUH2A

Boston College Sports Complex
Chestnut Hill, MA
Sasaki Associates, Inc.

Busch Stadium
St. Louis, MO
HOK Architects

Central Mutual Insurance Co.
Van Wert, OH
Flad & Associates

Clarion North Medical Center
Carmel, IN
HKS, Inc.

Crocker Park
Westlake, OH
Bialosky + Partners Architects

David Letterman
Communication & Media Bldg.
Muncie, IN
MSKTD & Associates, Inc.

Earth Sciences Building & Museum of Natural History
Amherst, MA
Payette

First Friends Church
North Canton, OH
Harris-Day Architects Inc.

Grand Valley State University
DeVos Center
Grand Rapids, MI
Design Plus Inc.

Good Samaritan North Hospital
Englewood, OH
Earl Swenson Associates

Harry London's Candies
Canton, OH
Lawrence, Dykes,
Goodenberger, Vandegrift
& Clancy

Holy Angels Church
Chagrin Falls, OH
Zarzycki – Malik Architects

Jordan Hall of Science at the University of Notre Dame
South Bend, IN
The S/L/A/M Collaborative

Leazar Hall at
NC State University
Raleigh, NC
Cannon Architects

Mayfaire Town Center
Wilmington, NC
Cooper Carry, Inc.

Midwest Express Center
Milwaukee, WI
Thompson, Ventulett,
Stainbach & Associates

Miller Park
Milwaukee, WI
HKS, Inc. / NBBJ / Eppstein
Uhen Architects

Myrtle Wycoff Station Complex
Brooklyn, NY
Dattner Architects

Northern Kentucky Convention Center
Covington, KY
Sherman Carter Barnhart

River House
New York, NY
Polshak Partnership
Ismael Leyva Architects

Seaport Hotel
World Trade Center
Boston, MA
The Stubbins Associates, Inc.

Taconic Hills School
Hillsdale, NY
Rhinebeck Architectural & Planning

The Eye Center
Columbus, OH
Gil Sass-AMB Development Group

The Millennium Building
Canton, OH
Wilson Architectural Group

The Ohio State University
Fisher School of Business
Columbus, OH
Karlsberger Co.

University of Cincinnati
Mary Emory Hall
Cincinnati, OH
I. M. Pei

University of Pittsburgh
Convocation Center
Oakland, PA
Apostolou & Associates

Whole Foods Market
Washington, DC
Mushinsky Voelzke Associates

Womack Replacement Hospital
Fort Bragg –Fayetteville, N.C.
The Smith Group, Inc.



Amerimax 5.5-in x 120-in White K Style Gutter

Item #11551 Model #2600600120

- The Amerimax 5-in aluminum gutter is used to control runoff, protect walls, and help prevent...
- Manufactured from durable aluminum with a factory baked-on white finish
- This gutter is a convenient, do-it-yourself 10-ft length

— +
Qty

Add to Cart



★★★★★ 116

[View Q&A](#)

Amerimax 120-in White Aluminum Downspout

Item #82573 Model #4601100120

- Use this 3-in x 4-in downspout to connect to rain gutters to guide roof run-off down the exterior wall
- Best to use this size downspout with oversized or steep roofs in areas with heavy rainfall, drains 46...
- Attach to the wall with downspout bands, sickle hooks, or rack and key, using 2 attachments per 1...

— +
Qty

Add to Cart

