RENOVATION TO

201 WEST JONES STREET

SAVANNAH, GEORGIA 31401

3 / T1.1 CONTEXT IMAGE 2
6" = 1'-0"

DRAWING INDEX:

SITE INFORMATION		
SITE	3, S.F.	.69 ACRES
FOOTPRINT	2,353 S.F. COMPOSITE TOTAL	
LOT COVERAGE	78.4% TOTAL COVERAGE (NOT CHANGING)	
SOIL TYPE	NO GEOTECHNICAL REPORT AT THIS TIME.	

EXISTING SQUARE FOOTAGE				
EXISTING S.F.	GARDEN LEVEL	FIRST FLOOR	SECOND FLOOR	TOTAL
HEATED	1,348 S.F.	2,022 S.F.	996 S.F.	4,366 S.F.
PORCH	0 S.F.	350 S.F.	0 S.F.	350 S.F.

NEW SQUARE FOOTAGE				
NEW S.F.	GARDEN LEVEL	FIRST FLOOR	SECOND FLOOR	TOTAL
HEATED	269 S.F.	44 S.F.	606 S.F.	919 S.F.
PORCH	0 S.F.	-63 S.F.	0 S.F.	-63 S.F.

NEW SQUARE FOOTAGE				
NEW + EXISTING S.F.	GARDEN LEVEL	FIRST FLOOR	SECOND FLOOR	TOTAL
HEATED	1,617 S.F.	2,066 S.F.	1,602 S.F.	4,929 S.F.
PORCH	0 S.F.	287 S.F.	0 S.F.	287 S.F.

SITE DATA	
ZONE	D-R
MAXIMUM LOT COVERAGE	75%
BUILDING SITE	3,000 SF
EXISTING BUILT FOOTPRINT	2,353 SF
EXISTING LOT COVERAGE	78.4%
EXISTING CONDITIONED SF	4,366 SF
PROPOSED ADDITION	919 SF
PROPOSED TOTAL FOOTPRINT	2,353 SF
PROPOSED LOT COVERAGE	78.4%
PROPOSED CONDITIONED SF	919 SF
PROPOSED TOTAL CONDITIONED SF	4,929 SF

CONTACT: ELI LURIE
545 BERRIEN STREET
UNIT A
SAVANNAH, GA 31401
TEL: 508.887.0836

1 / T1.1 VICINITY MAP DOWNTOWN
N.T.S.

2 / T1.1 CONTEXT IMAGE 1
6" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

T1.1

FOR HDBR REVIEW
TITLE SHEET

NO: 23040
DATE: 04.11.2024

ELI LURIE
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2 PH1.1 CONTEXT IMAGE 4
6" = 1'-0"

1 PH1.1 CONTEXT IMAGE 3
6" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
CONTEXT IMAGES

PH1.1

NO: 23040
DATE: 04.11.2024

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RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
AS-BUILT PLAN

AB1.1

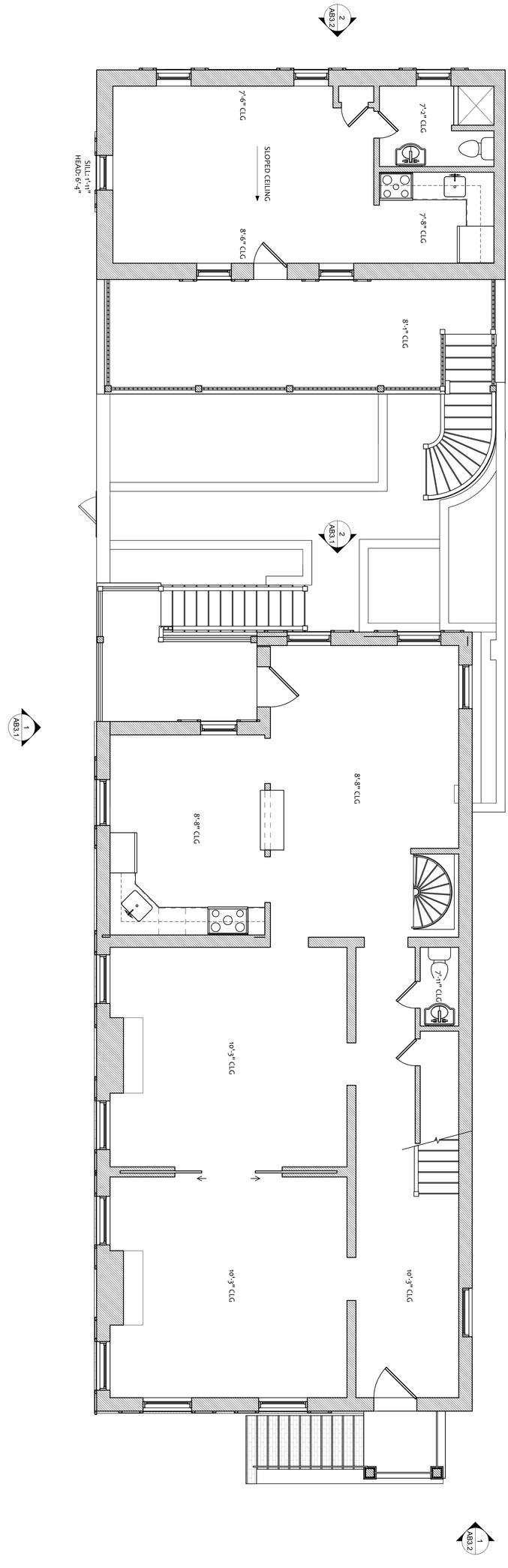
NO: 23040
DATE: 04.11.2024

N

1 / AB1.1 GARDEN LEVEL AS-BUILT PLAN
1/4" = 1'-0"

ELI LURIE
ANTIQUES • DESIGN

1 AB1.2 PARLOUR LEVEL AS-BUILT PLAN
1/4" = 1'-0"



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ELI LURIE
ANTIQUES • DESIGN

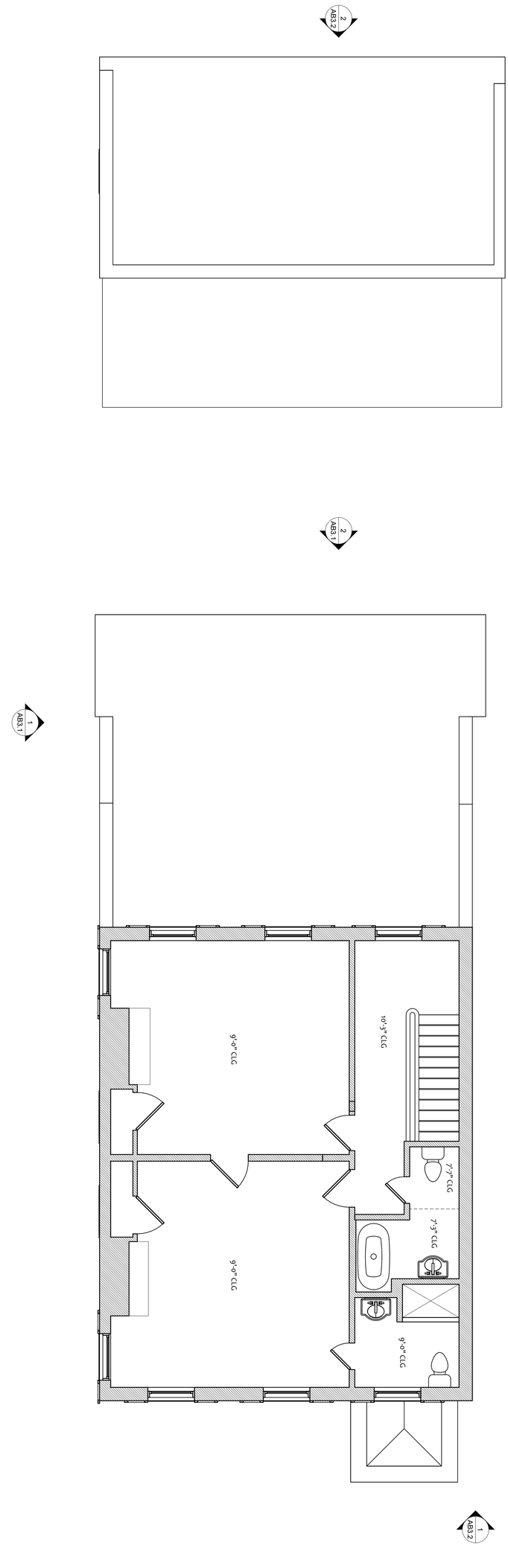
RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

NO: 23040
DATE: 04.11.2024

FOR HDBR REVIEW
AS-BUILT PLAN

AB1.2

1 AB1.3 SECOND LEVEL AS-BUILT PLAN
1/4" = 1'-0"



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RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

NO: 23040
DATE: 04.11.2024

FOR HDBR REVIEW
AS-BUILT PLAN

AB1.3

All openings shall be retained and preserved, so that if the addition is to be removed in the future, the essentialform and integrity of the historic property and its environment would be unimpaired. The second floor window (that isproposed to be extended to allow for access to the addition) shall have all bricks salvaged and appropriately storedon-site.

2 AB3.1 AS-BUILT WEST COURTYARD ELEVATION
1/4" = 1'-0"

1 AB3.1 AS-BUILT SOUTH ELEVATION
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW

AS-BUILT EXTERIOR ELEVATIONS

AB3.1

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN

2 AB3.2 AS-BUILT WEST ELEVATION
1/4" = 1'-0"

1 AB3.2 AS-BUILT EAST ELEVATION
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

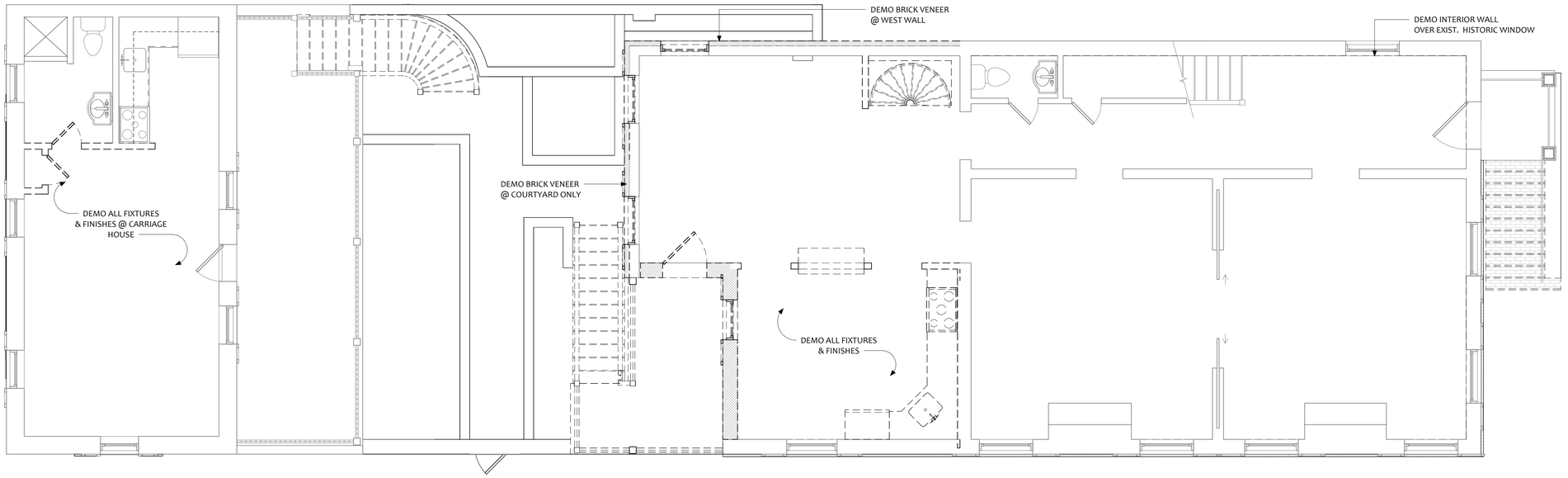
FOR HDBR REVIEW

AS-BUILT EXTERIOR ELEVATIONS

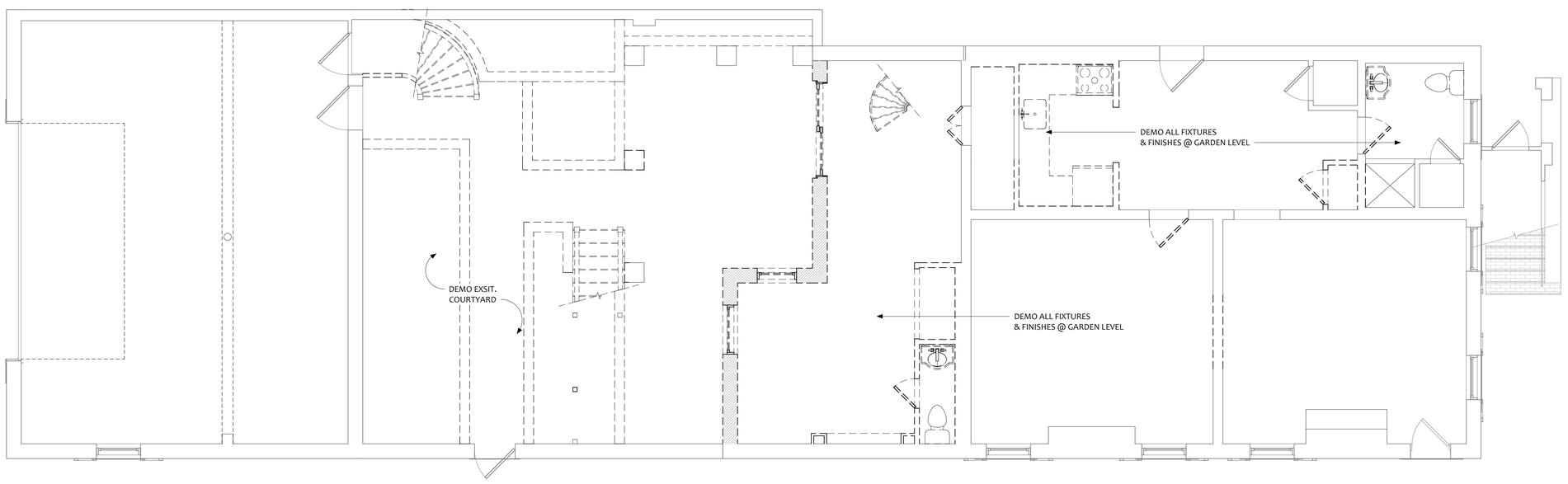
AB3.2

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN



2 / D1.1 PARLOUR LEVEL DEMOLITION PLAN
1/4" = 1'-0"



1 / D1.1 GARDEN LEVEL DEMOLITION PLAN
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
DEMOLITION FLOOR PLAN

D1.1

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN

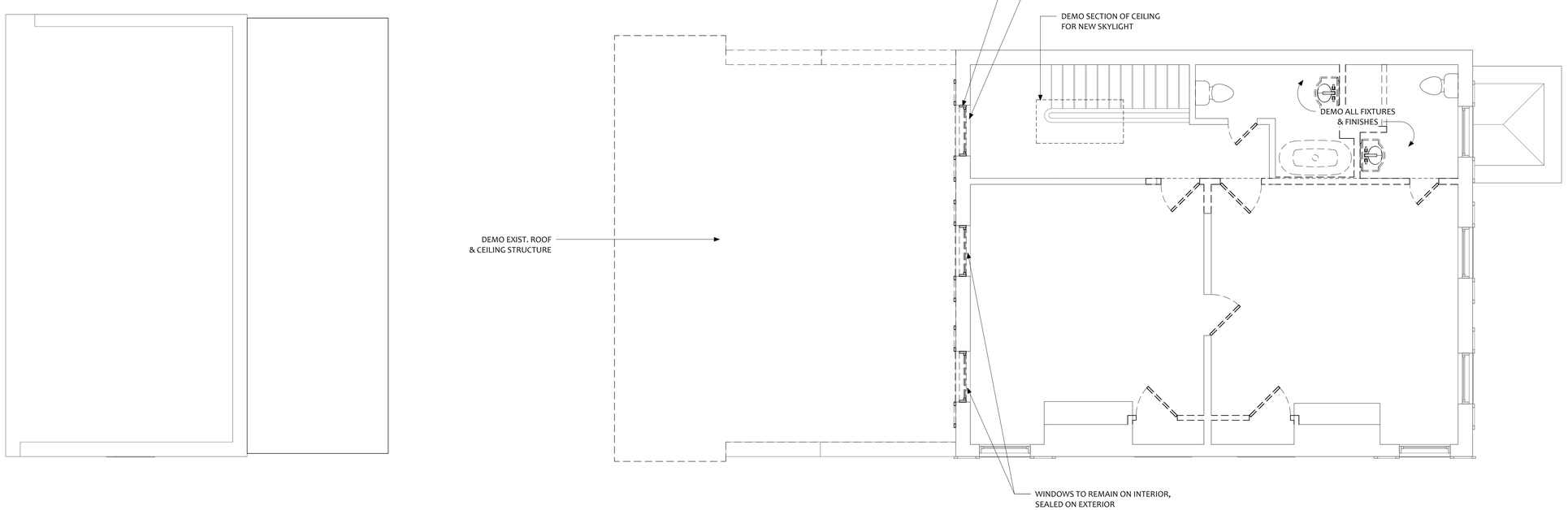
RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
DEMOLITION FLOOR PLAN

D1.2

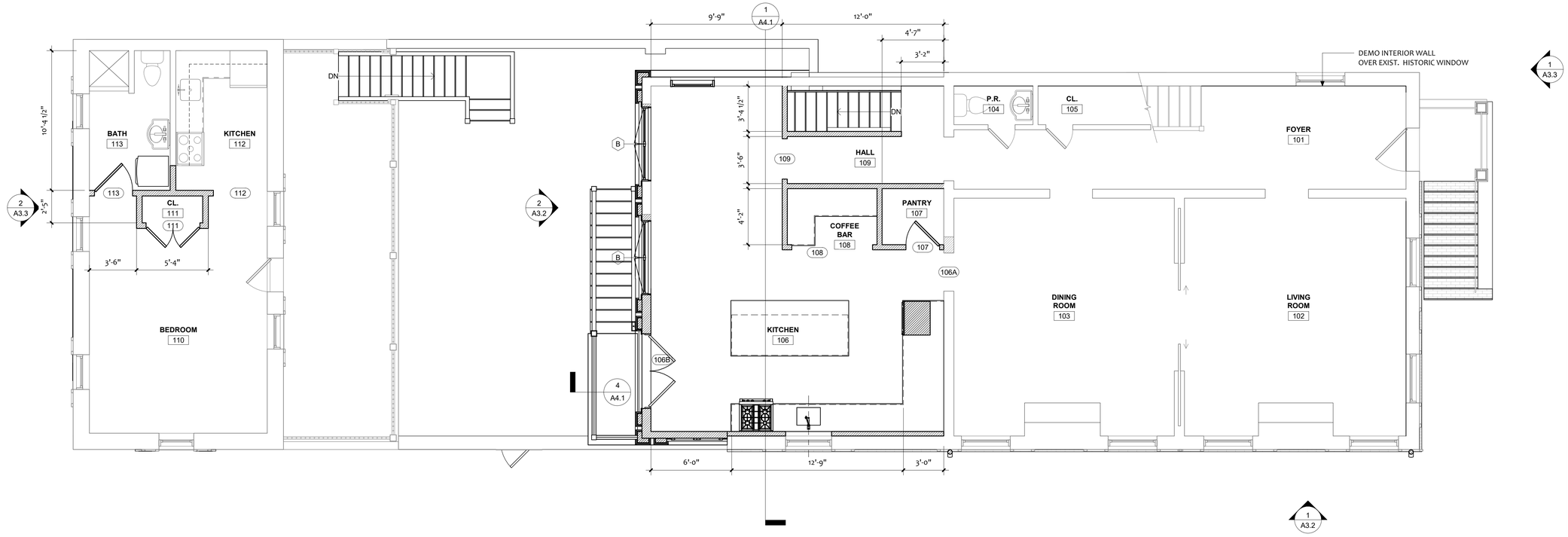
NO: 23040
DATE: 04.11.2024

All openings shall be retained and preserved, so that if the addition is to be removed in the future, the essentialform and integrity of the historic property and its environment would be unimpaired. The second floor window (that isproposed to be extended to allow for access to the addition) shall have all bricks salvaged and appropriately storedon-site.

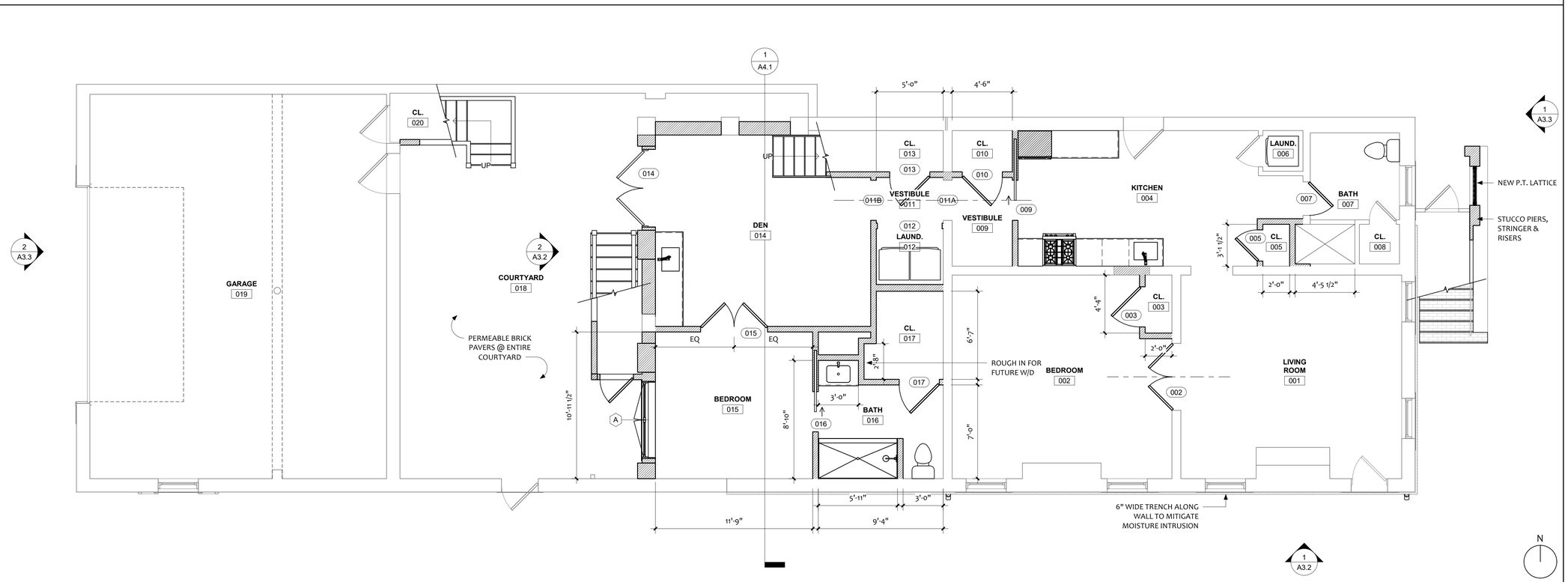


1 / D1.2 SECOND LEVEL DEMOLITION PLAN
1/4" = 1'-0"

ELI LURIE
ANTIQUES • DESIGN



2 A1.1 PROPOSED PARLOUR LEVEL PLAN
1/4" = 1'-0"



1 A1.1 PROPOSED GARDEN LEVEL PLAN
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
FLOOR PLANS

A1.1

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
FLOOR PLANS

A1.2

NO: 23040
DATE: 04.11.2024

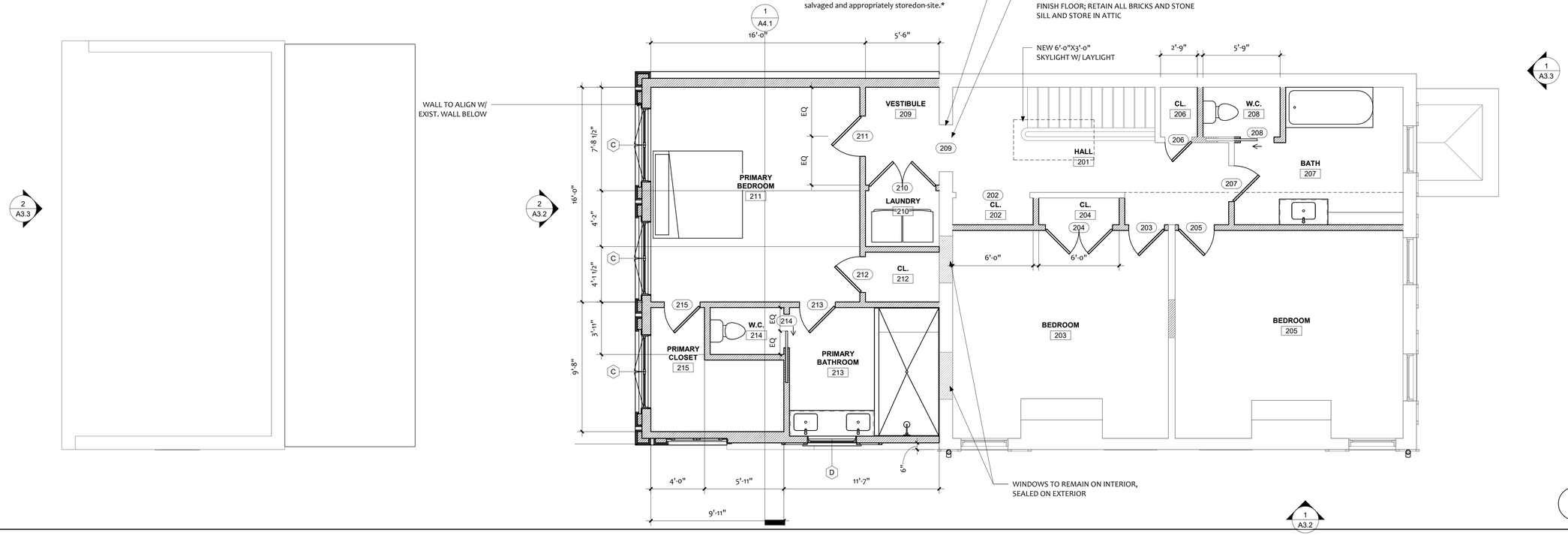
All openings shall be retained and preserved, so that if the addition is to be removed in the future, the essentialform and integrity of the historic property and its environment would be unimpaired. The second floor window (that isproposed to be extended to allow for access to the addition) shall have all bricks salvaged and appropriately storedon-site.

CAREFULLY REMOVE WINDOW UNIT INTACT; RETAIN FOR STORAGE IN ATTIC

CAREFULLY REMOVE STONE SILL AND BRICK BELOW WINDOW M.O. TO INTERIOR FINISH FLOOR; RETAIN ALL BRICKS AND STONE SILL AND STORE IN ATTIC

NEW 6'-0"X3'-0" SKYLIGHT W/ LAYLIGHT

WALL TO ALIGN W/ EXIST. WALL BELOW



1 A1.2 PROPOSED SECOND LEVEL PLAN
1/4" = 1'-0"

ELI LURIE
ANTIQUES • DESIGN

DOOR SCHEDULE

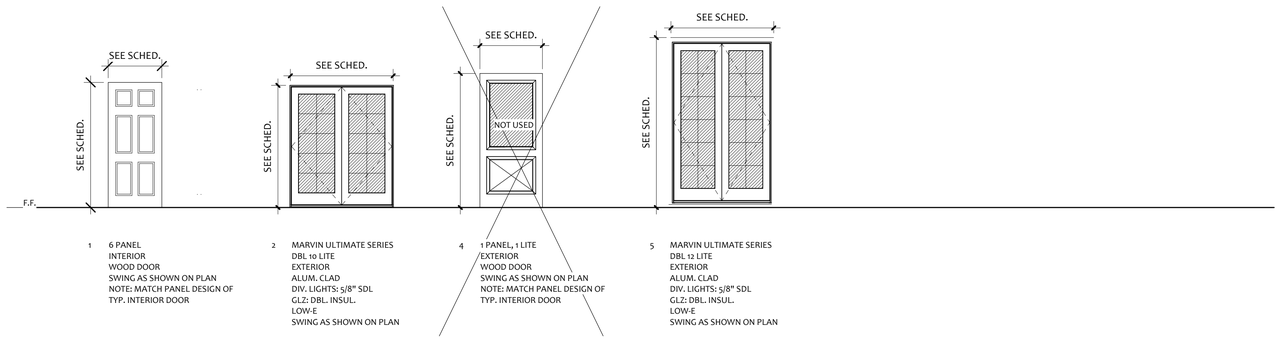
MARK	DOOR ELEV.	DOOR HEIGHT	DOOR WIDTH	DOOR THICKNESS	MATERIAL DOOR	MATERIAL FRAME	FINISH DOOR	FINISH FRAME	COMMENTS
002	1	6'-8"	5'-0"	1-3/8"	WD	WD	PT	PT	DBL DOORS
003	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	
005	1	6'-8"	2'-4"	1-3/8"	WD	WD	PT	PT	
007	1	6'-8"	2'-6"	1-3/8"	WD	WD	PT	PT	
009	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	POCKET DOOR
010	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	
011A	-	6'-8"	3'-0"	-	-	WD	-	PT	CASED OPENING
011B	-	6'-8"	3'-0"	-	-	WD	-	PT	CASED OPENING
012	-	6'-8"	4'-10"	-	-	WD	-	PT	CASED OPENING
013	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	
014	2	6'-8"	5'-9"	1-3/4"	WD/CLAD	WD/CLAD	PT/FF	PT/FF	
015	1	6'-8"	5'-0"	1-3/8"	WD	WD	PT	PT	DBL DOORS
016	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	POCKET DOOR
017	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	
106A	-	7'-0"	3'-0"	-	-	WD	-	PT	CASED OPENING
106B	5	9'-8"	5'-9"	1-3/4"	WD/CLAD	WD/CLAD	PT/FF	PT/FF	
107	1	7'-0"	2'-6"	1-3/8"	WD	WD	PT	PT	
108	-	7'-0"	6'-0"	-	-	WD	-	PT	CASED OPENING
109	-	7'-0"	3'-0"	-	-	WD	-	PT	CASED OPENING
111	1	6'-8"	4'-0"	1-3/8"	WD	WD	PT	PT	DBL DOORS
112	-	6'-8"	4'-0"	-	-	WD	-	PT	CASED OPENING
113	1	6'-8"	2'-10"	1-3/8"	WD	WD	PT	PT	
202	-	6'-8"	5'-6"	-	-	WD	-	PT	CASED OPENING
203	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	
204	1	6'-8"	5'-0"	1-3/8"	WD	WD	PT	PT	DBL DOORS
205	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	
206	1	6'-8"	2'-0"	1-3/8"	WD	WD	PT	PT	
207	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	
208	1	6'-8"	2'-6"	1-3/8"	WD	WD	PT	PT	POCKET DOOR
209	-	6'-8"	3'-6"	-	-	WD	-	PT	CASED OPENING IN EXIST. WINDOW OPENING
210	1	6'-8"	5'-0"	1-3/8"	WD	WD	PT	PT	
211	1	6'-8"	3'-0"	1-3/8"	WD	WD	PT	PT	
212	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	
213	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	
214	1	6'-8"	2'-6"	1-3/8"	WD	WD	PT	PT	
215	1	6'-8"	2'-8"	1-3/8"	WD	WD	PT	PT	

DOOR LEGEND

GL	-	GLAZING	WD	-	WOOD
CLAD	-	ALUM. CLAD	STN	-	STAINED
PT	-	PAINT			
MTL	-	METAL			
FF	-	FACTORY FINISH			
FG	-	FIBERGLASS			

DOOR AND WINDOW NOTES:

1. FIELD VERIFY ALL WINDOW, DOOR, AND SHUTTER ROUGH OPENINGS PRIOR TO ORDERING
2. ALL WINDOW DIMENSIONS ARE STANDARD MARVIN ULTIMATE **FRAME** DIMENSIONS UNLESS OTHERWISE NOTED. ALL WINDOWS ARE TO BE SIMULATED DIVIDED LITES w/ BRONZE SPACER BARS, LOW-E, INSUL. GLAZING, IMPACT RESISTANT
3. ALL EXTERIOR DOORS TO BE PAINTED WOOD MAHOGANY OR MARVIN INTEGRITY (U.N.O.) COLOR TO MATCH WINDOWS.
4. PROVIDE DOOR SWINGS AS REPRESENTED IN PLANS
6. WINDOW, DOOR, AND SHUTTER MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION. ALL WINDOW AND DOOR PRODUCTS WITHOUT PRIOR SHOP DRAWING APPROVAL ARE SUBJECT TO REJECTION BY ARCHITECT.
7. ALL WINDOW AND DOOR HURRICANE PROTECTION SYSTEMS, IF REQUIRED, SHALL MEET OR EXCEED ASTM AND ANSI STANDARDS AND SHALL MEET ALL IRC 2012 REQUIREMENTS. CONTRACTOR TO PROVIDE MANUFACTURER'S TEST DATA TO BUILDING OFFICIALS WHERE REQUIRED.
8. PROVIDE COASTAL HARDWARE OPTION FOR ALL EXTERIOR DOORS & MARINE GRADE EXTERIOR FINISH @ WOOD DOORS.



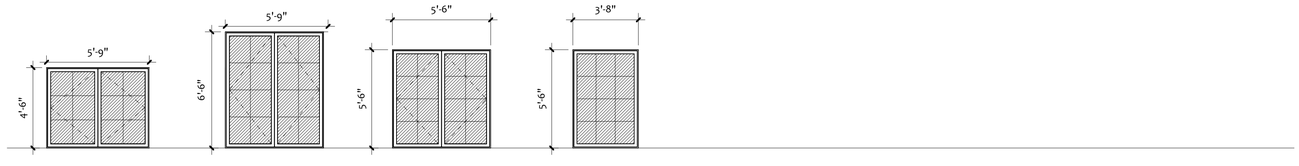
1 6 PANEL
INTERIOR
WOOD DOOR
SWING AS SHOWN ON PLAN
NOTE: MATCH PANEL DESIGN OF TYP. INTERIOR DOOR

2 MARVIN ULTIMATE SERIES
DBL 10 LITE
EXTERIOR
ALUM. CLAD
DIV. LIGHTS: 5/8" SDL
GL2: DBL. INSUL. LOW-E
SWING AS SHOWN ON PLAN

4 1 PANEL, 1 LITE
EXTERIOR
WOOD DOOR
SWING AS SHOWN ON PLAN
NOTE: MATCH PANEL DESIGN OF TYP. INTERIOR DOOR

5 MARVIN ULTIMATE SERIES
DBL 12 LITE
EXTERIOR
ALUM. CLAD
DIV. LIGHTS: 5/8" SDL
GL2: DBL. INSUL. LOW-E
SWING AS SHOWN ON PLAN

DOOR LEGEND
1/4" = 1'-0"



A DBL 6 LITE
CASEMENT
ALUM. CLAD,
TRAD. 5/8"
SDL MUNTINS,
LOW-E

B DBL 8 LITE
CASEMENT
ALUM. CLAD,
TRAD. 5/8"
SDL MUNTINS,
LOW-E

C DBL 8 LITE
CASEMENT
ALUM. CLAD,
TRAD. 5/8"
SDL MUNTINS,
LOW-E

D 12 LITE
CASEMENT
ALUM. CLAD,
TRAD. 5/8"
SDL MUNTINS,
LOW-E

WINDOW LEGEND
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
WINDOW TYPES & SCHEDULES

NO: 23040
DATE: 04.11.2024

A2.1

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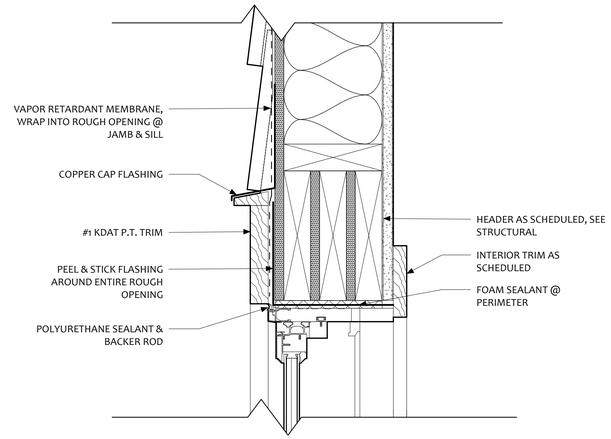
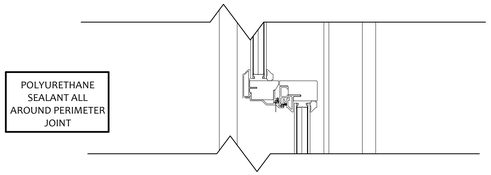
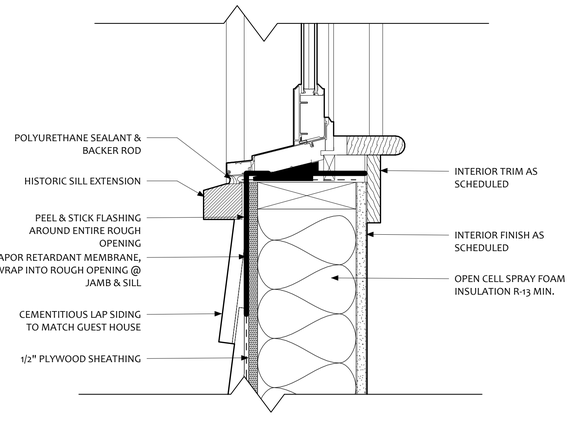
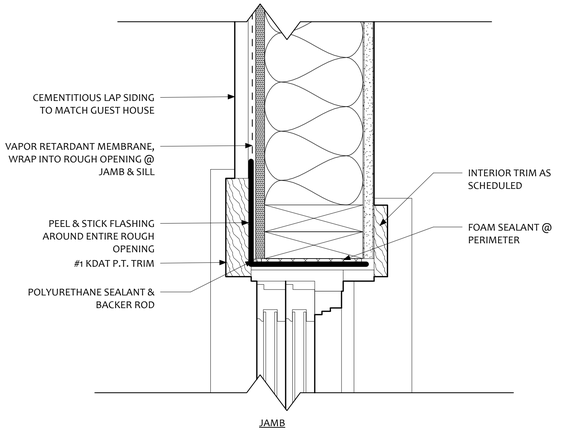


HEAD



SILL





JAMB

1 / A2.2 TYPICAL CLAPBOARD WALL WINDOW
3" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW

NO: 23040
DATE: 04.11.2024

TYPICAL WINDOW HEAD, JAMB & SILL

A2.2

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4 A3.1 WEST PERSPECTIVE 2

3 A3.1 WEST PERSPECTIVE 1

2 A3.1 NORTH WEST PERSPECTIVE 1

1 A3.1 SOUTHWEST PERSPECTIVE 1

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
EXTERIOR PERSPECTIVES

A3.1

NO: 23040
DATE: 04.11.2024

ELI LURIE
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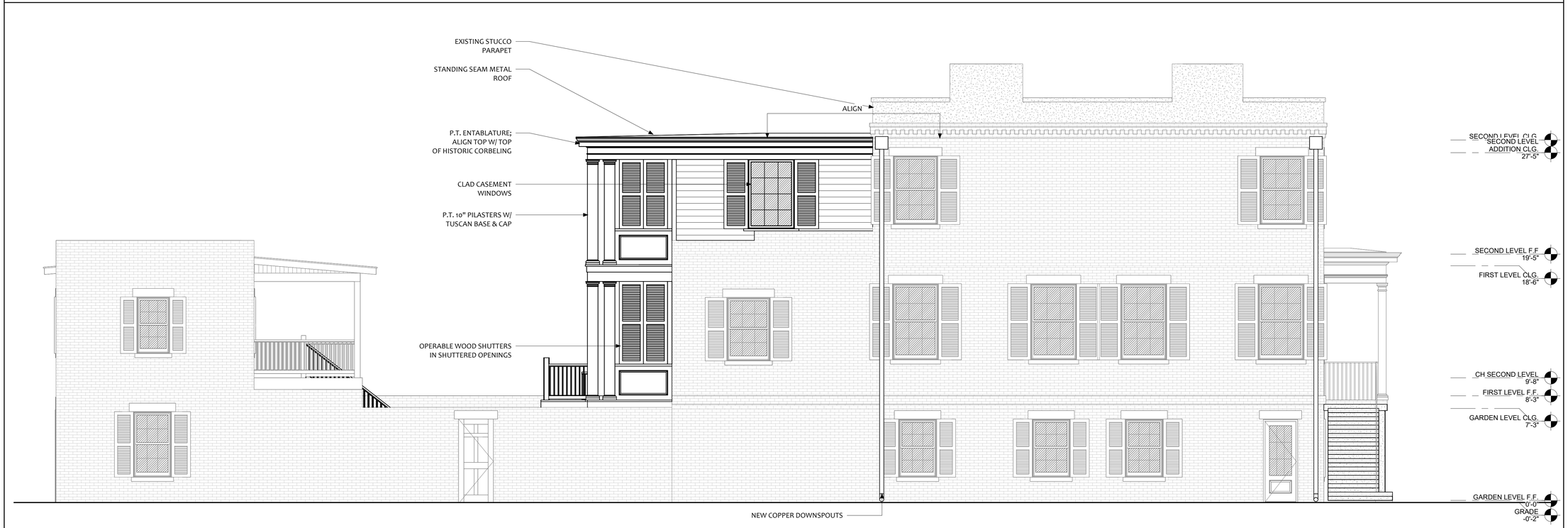
2 / A3.2 PROPSOED WEST COURTYARD ELEVATION
1/4" = 1'-0"



1 / A3.2 PROPOSED SOUTH ELEVATION
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
EXTERIOR ELEVATIONS

A3.2

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN

2 A3.3 PROPOSED WEST ELEVATION
1/4" = 1'-0"

1 A3.3 PROPOSED EAST ELEVATION
1/4" = 1'-0"

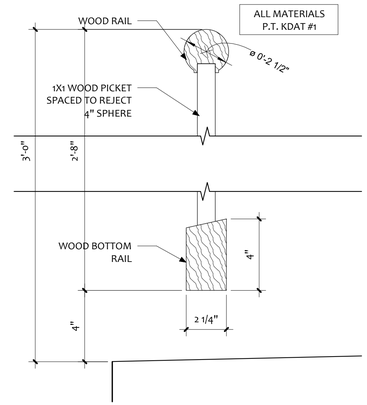
RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
EXTERIOR ELEVATIONS

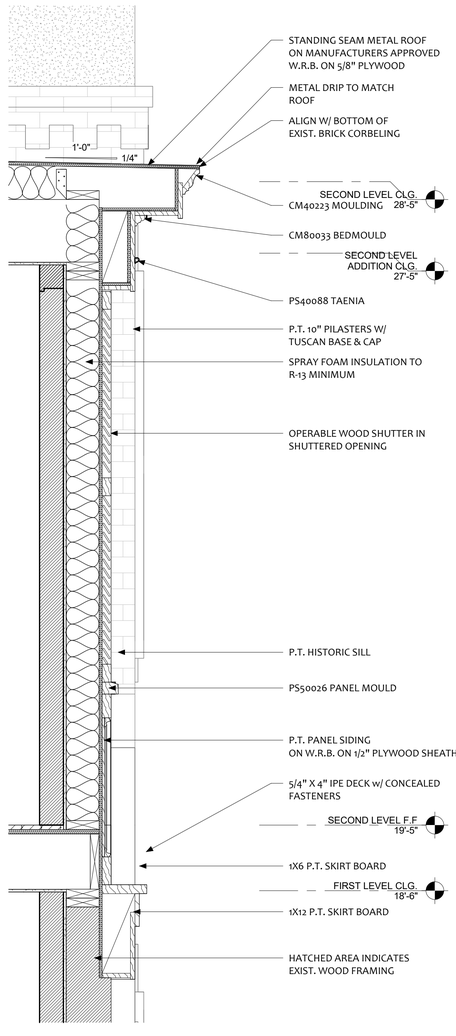
A3.3

NO: 23040
DATE: 04.11.2024

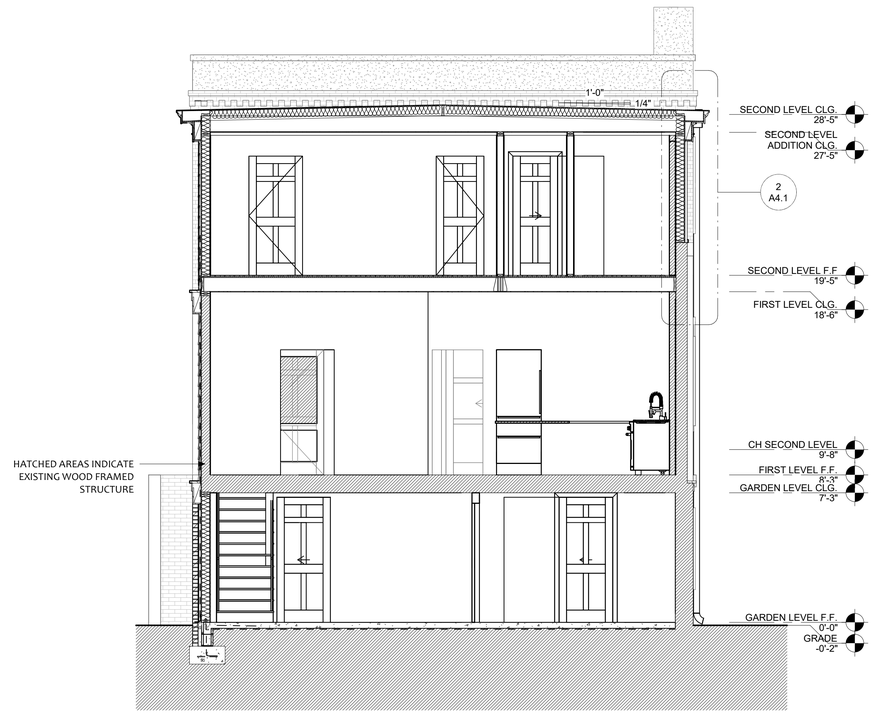
ELI LURIE
ANTIQUES • DESIGN



4 A4.1 WOOD RAILING SECTION
3" = 1'-0"



2 A4.1 WALL SECTION
1" = 1'-0"



1 A4.1 Section 1
1/4" = 1'-0"

RENOVATION TO
201 WEST JONES STREET
SAVANNAH, GA 31401

FOR HDBR REVIEW
BUILDING SECTIONS

A4.1

NO: 23040
DATE: 04.11.2024

ELI LURIE
ANTIQUES • DESIGN

April 10, 2024

Ms. Kelli Mitchell
Savannah Historic District Board of Review
PO Box 8246
Savannah, GA 31412

Addition to 201 West Jones Street

Dear Kelli:

We are requesting design approval for a new addition to 201 West Jones Street in Pulaski Ward. Currently there is an addition on the rear of the house which we plan on building over. The current addition has piers below it, which we plan on infilling. The design will reflect a infilled porch, as many rear additions in the historic district do.

I believe we have met all requirements for the submission. Please do not hesitate to contact me with questions or requests for more information.

Thank you,

Eli Lurie

April 10, 2024

Ms. Kelli Mitchell
Savannah Historic District Board of Review
PO Box 8246
Savannah, GA 31412

Addition to 201 West Jones Street

Material and Detail List:

1. Paint Colors
    a. Clad Windows & Doors: Marvin "Ebony".
    b. Stucco: Sherwin Williams 7012 "Creamy".
    c. Existing Windows & Trim: Sherwin Williams 7012 "Creamy".
    d. New Trim & Lattice: Sherwin Williams 7012 "Creamy".
    e. Shutters: Sherwin Williams 7012 "Creamy".
    f. Handrails: Sherwin Williams 6258 "Tricorn Black".
    g. Front Door: Benjamin Moore 777 "Summer Nights".
    h. Porch Ceilings: Farrow & Ball 201 "Shaded White".
    i. Barnard Street Door & Carriage House Door: Farrow & Ball 22 "Light Blue".
2. Doors & Windows
    a. Clad Windows: Marvin Ultimate Double Hung & Casement. See enclosed specifications.
    b. Clad Doors: Marvin Ultimate. See enclosed specifications.
    c. Wood Doors: Mahogany by Guerry Lumber/Tucker Doors and Trim
3. Roof Materials
    a. Sloped Roof over Addition: Alumaklad "Slate Grey" with 1" seam height.
4. Metal Collector Box, Gutters & Downspouts
    a. K&M Sheet Metal "Brookstone" copper collector box
    b. 4" diameter round copper downspouts
    c. 6" diameter half round aluminum gutters

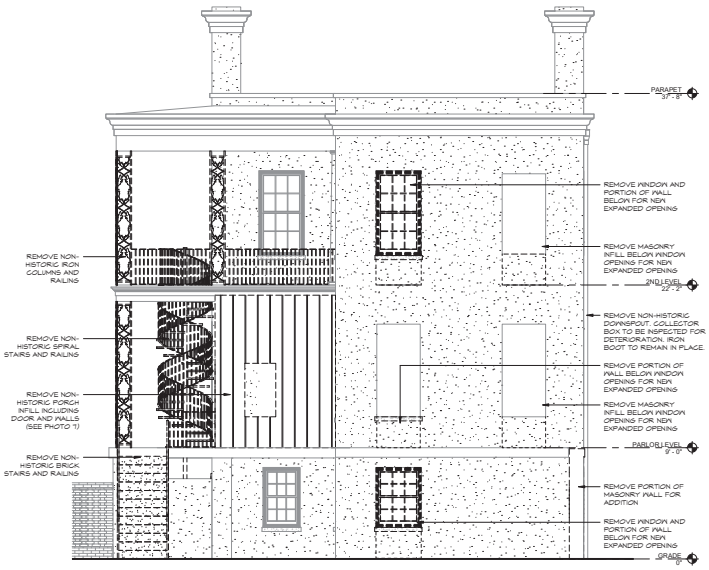
432 Abercorn Street - 18-005788-COA - November 14, 2018

REAR FACADE - JANUARY 2019

REAR FACADE - MARCH 2022

PHOTO 7

PHOTO 8 (GHOSTING OF FORMER ADDITION)



REAR FACADE - APPROVED DRAWING

Savannah Historic District Board of Review

NOVEMBER 14, 2018 SAVANNAH HISTORIC BOARD OF REVIEW REGULAR MEETING

Title

Petition of Ward Architecture + Preservation | 18-005788-COA | 432 Abercorn Street and 210 East Gordon Street | Additions and Alterations

Description

The applicant is requesting approval for alterations and additions to the properties located at 432 Abercorn Street (main house) and 210 East Gordon Street (carriage house).

Recommendation

Approval for alterations and additions to the properties located at 432 Abercorn Street (main house) and 210 East Gordon Street (carriage house) with the following conditions to be submitted to staff for final review and approval because the proposed work is otherwise visually compatible and meets the standards.

1. Reduce the number of windows proposed to be altered into door openings on the rear façade of the main house where the addition is attached.
2. Do not alter the window on the parlor level of the side porch into a door opening.
3. Provide all color selections.
4. Ensure all doors and windows are inset not less than 3 inches from the building's façade.
5. Where intersected by a new driveway, ensure that the sidewalk serves as a continuous uninterrupted pathway across the driveway in materials, configuration, and height.

Contact

Financial Impact

Review Comments

Attachments

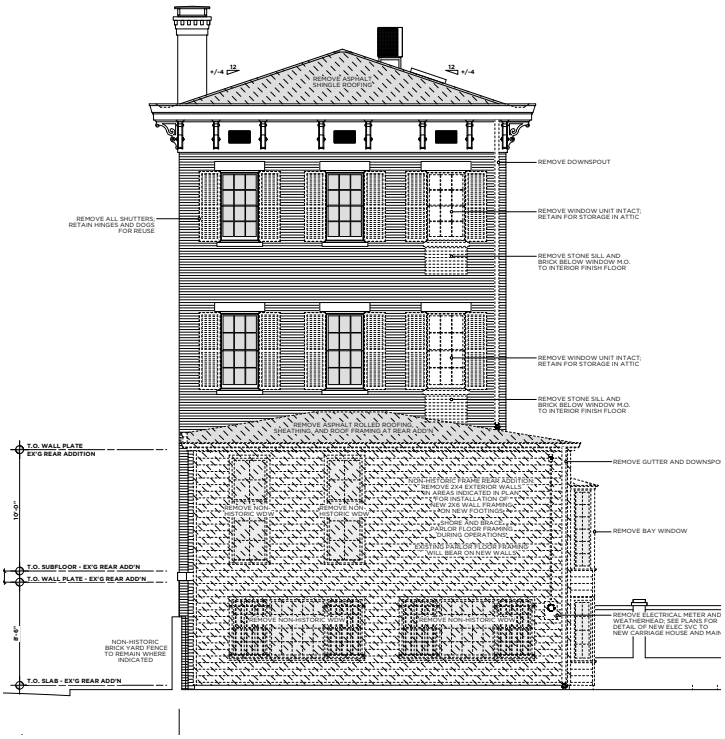
- 18-005788-COA Staff Recommendation.pdf
- SAGIS Aerials.pdf
- Submittal Packet - Photographs and Drawings.pdf
- Submittal Packet - Project Description.pdf
- Submittal Packet - Specifications.pdf
- Submittal Packet - Supporting Documents.pdf

2018 APPROVAL

23 West Gordon Street - 16-005621-COA - January 11, 2017

REAR FACADE - August 2017

REAR FACADE - MARCH 2022



REAR FACADE - APPROVED DRAWING

Arthur A. Mendonsa Hearing Room
January 11, 2017 1:00 P.M.
Meeting Minutes

Title
Petition of Hall Smith Office, Inc. | 16-005621-COA | 23 West Gordon Street | Alterations, Additions, and New Construction: Part II, Carriage House

Description

The petitioner is requesting approval for Part II: Design Details for new construction of a carriage house and additions and alterations to the main buildings at 23 West Gordon Street.
Alterations to the main house consist of replacing the asphalt shingle roof with a new standing seam metal roof, repair and repainting windows, shutters, and other woodwork; and virtual demolition and reconstruction of the two-story rear addition and side porch that wraps the east façade of the main building. The east half of this addition will be reconstructed at three-stories high.

The addition of a two-story hyphen, with a roof deck, between the main building's rear addition and the new carriage house is proposed. This addition also has an attached deck structure extending into the east courtyard.

Recommendation

1. Approval of Part 2: Design Details for new construction of a carriage house at 23 West Gordon Street with the following condition to be submitted to staff for approval:
a. Revise the two oval accent windows on the rear façade of the carriage house facing West Gordon Street because they are not visually compatible. Staff recommends that they be revised to the previous design of three double-hung wood windows or redesigned.

2. Approval of the proposed additions and alterations to the main building at 23 West Gordon Street with the following conditions:
a. Restudy the partially open space below the 2nd floor of the hyphen and above the brick wall;
b. Retain the extracted windows on site to allow for a future restoration;
c. Ensure that the door frames and window sashes are inset a minimum of 3 inches from the face of the building;
d. Ensure that the metal roof's standing seam does not exceed a height of one inch;
e. Wood siding is proposed on the 3-story portion of the addition and stucco on the 2-story portion of the addition; however, staff recommends material continuity throughout the whole addition;

Because the project is otherwise visually compatible and meets the standards.

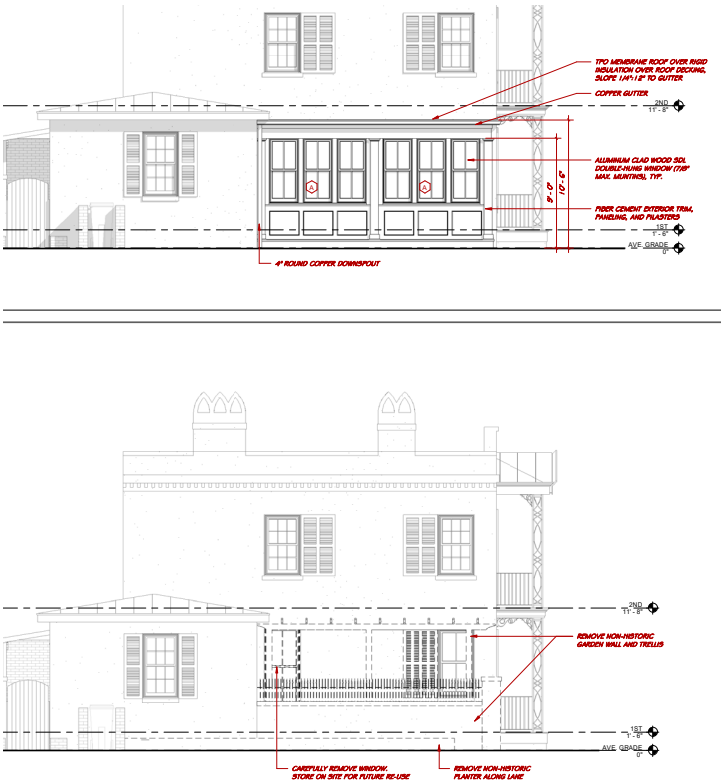
Summary of Variances

Additional Information

2017 APPROVAL

439 Abercorn Street - 22-003896-COA - September 14, 2022

FRONT FACADE - March 2022



REAR FACADE - APPROVED DRAWING

Savannah Historic District Board of Review

September 14, 2022 Historic District Board of Review

Title

Petition of Ward Architecture + Preservation | 22-003896-COA | 439 Abercorn Street | Addition

Description

The petitioner is requesting approval for an addition to enclose the front patio of the property located at 439 Abercorn Street.

Recommendation

Approval for an addition to enclose the front patio of the property located at 439 Abercorn Street **as requested** because the work is visually compatible and meets the standards.

Contact

Financial Impact

Review Comments

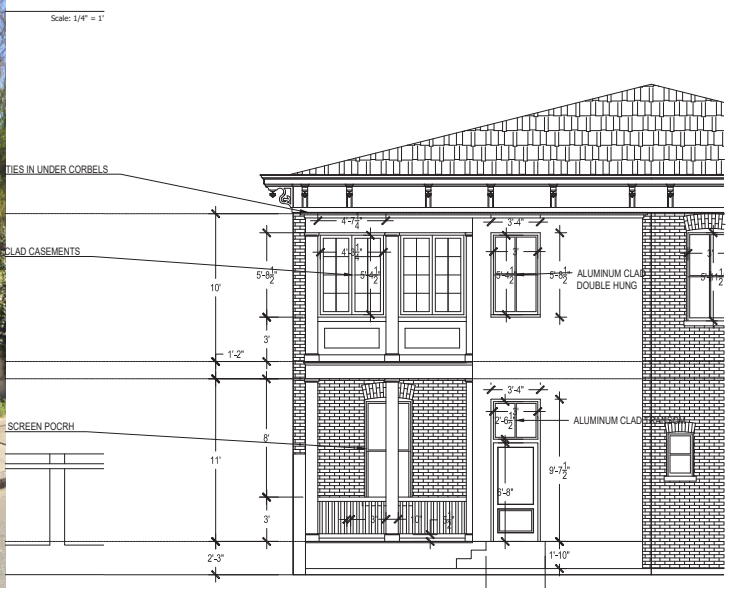
Attachments

- Staff Recommendation - 22-003896-COA- 439 Abercorn St.pdf
- Submittal Packet.pdf
- Window Section.pdf

2022 APPROVAL

337 Tattnall Street - 21-006780-COA - January 12, 2022

REAR FACADE - March 2022



REAR FACADE - Approved

REAR FACADE - APPROVED DRAWING

Savannah Historic District Board of Review

January 12, 2022 Savannah Historic District Board of Review

Title

Petition of Hallett & Co.| 21-006780-COA | 337 Tattnall Street | Alterations and Rear Addition

Description

The petitioner is requesting approval for alterations to the rear façade openings and the construction of a rear addition for the building located at **337 Tattnall Street.**

Recommendation

Approve alterations to the rear openings of the building located at 337 Tattnall Street, to allow for the construction of a rear addition, **with the following conditions** to be submitted to Staff, because otherwise the work is visually compatible and meets the standards:

1. All openings shall be retained and preserved, so that if the addition is to be removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired. The second floor window (that is proposed to be extended to allow for access to the addition) shall have all bricks salvaged and appropriately stored on-site.
2. Provide all material specifications to Staff for review prior to the commencement of any work. All framing members shall be covered with appropriate trim; trim shall feature a header, surrounds, and pronounced sill where appropriate. All window sashes shall be inset a minimum of three (3) inches from the façade of a building, and all glazing shall be transparent with no dark tints or reflective effects.
3. The exterior walls of the addition shall be finished in true stucco and the proposed paint color shall be submitted to Staff for review. All porch elements must be painted, and the proposed color must be provided to Staff.
4. The addition shall not encroach on the adjacent property.

Contact

Financial Impact

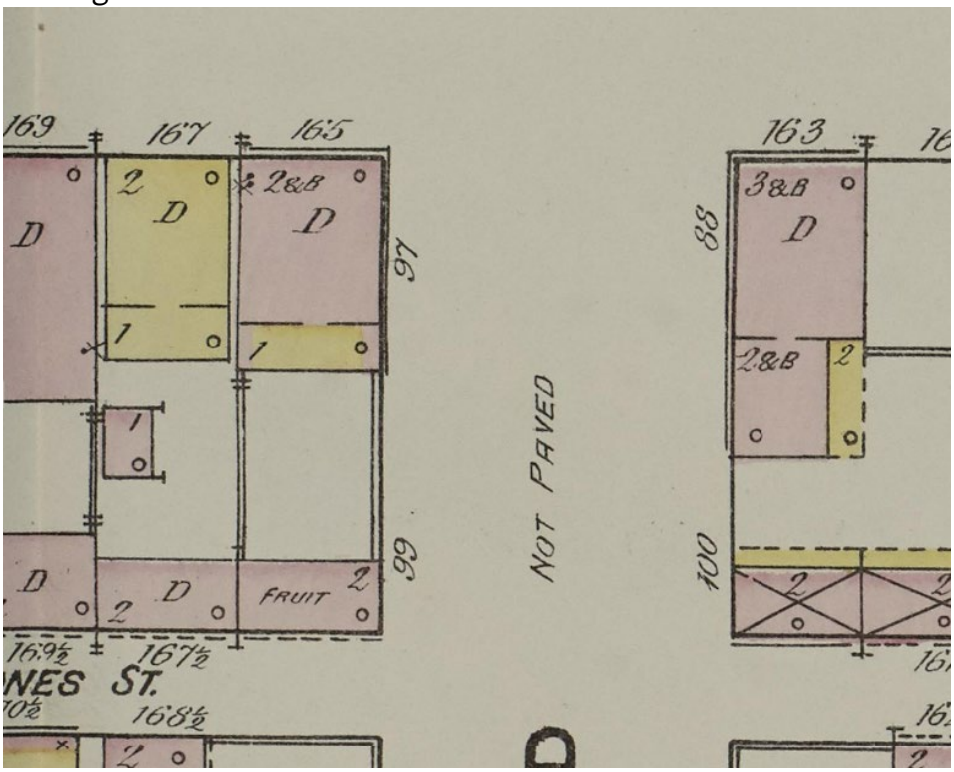
Review Comments

Attachments

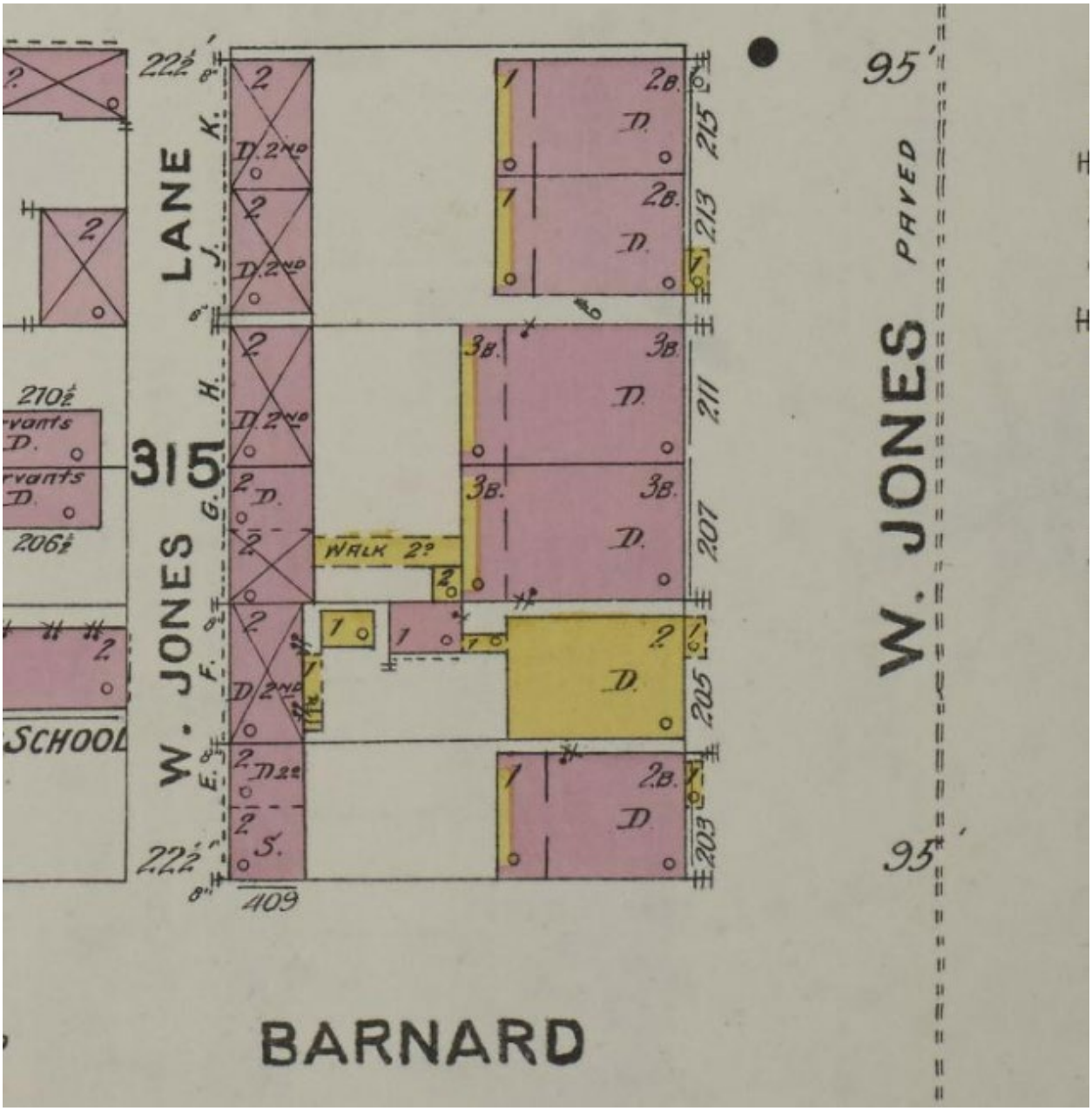
- Staff Recommendation 21-006780-COA.pdf
- Submittal Packet - Application and Checklist.pdf
- Submittal Packet - Narrative.pdf
- Submittal Packet - Drawings.pdf
- Submittal Packet - Material Specifications.pdf

2022 APPROVAL

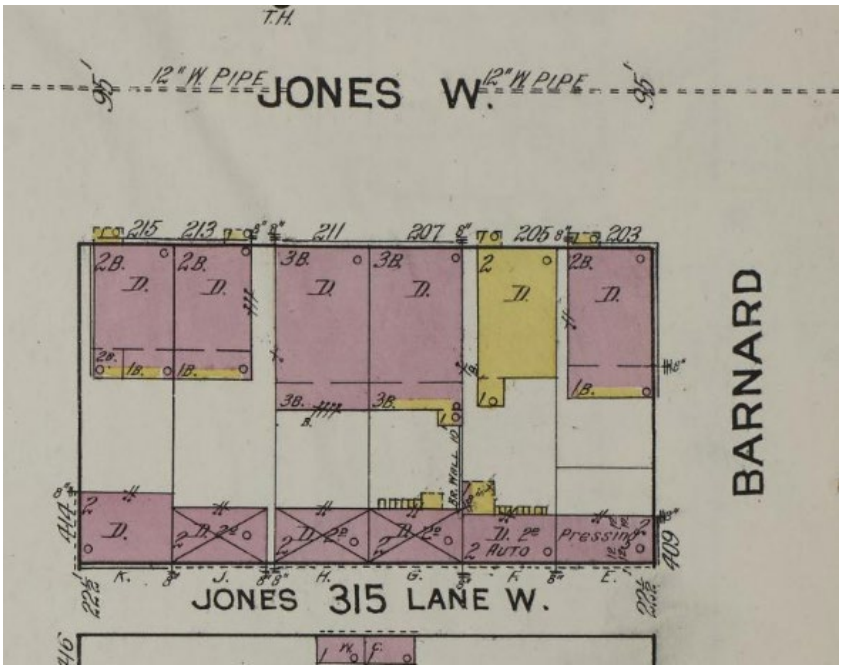
Existing Rear Addition iterations:



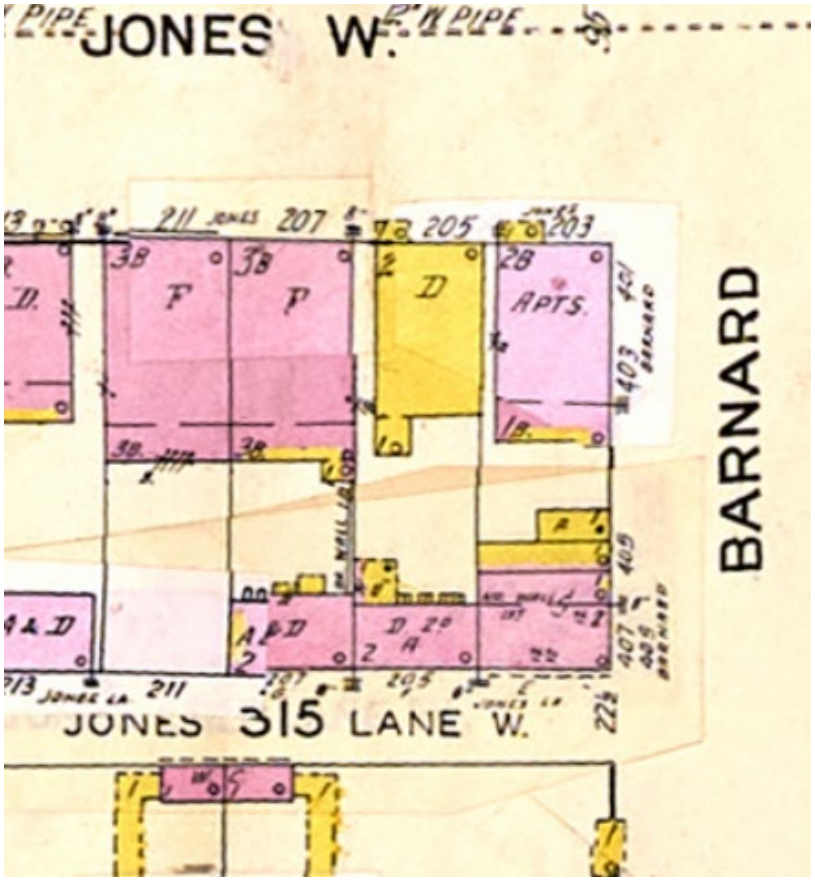
As you can see in the 1898 Sanborn Map, the rear additions of neighboring properties include the notation “2&B.”, which indicates that the rear additions are 2-stories in height over a raised basement. As you can see with 201 W Jones, previously addressed as 203 W Jones, the rear addition is noted as “1”, while the main house is noted as “2&B.”, meaning the main house was 2-stories over a raised basement, while the rear addition was only 1-story most likely at ground level - not including a raised basement.



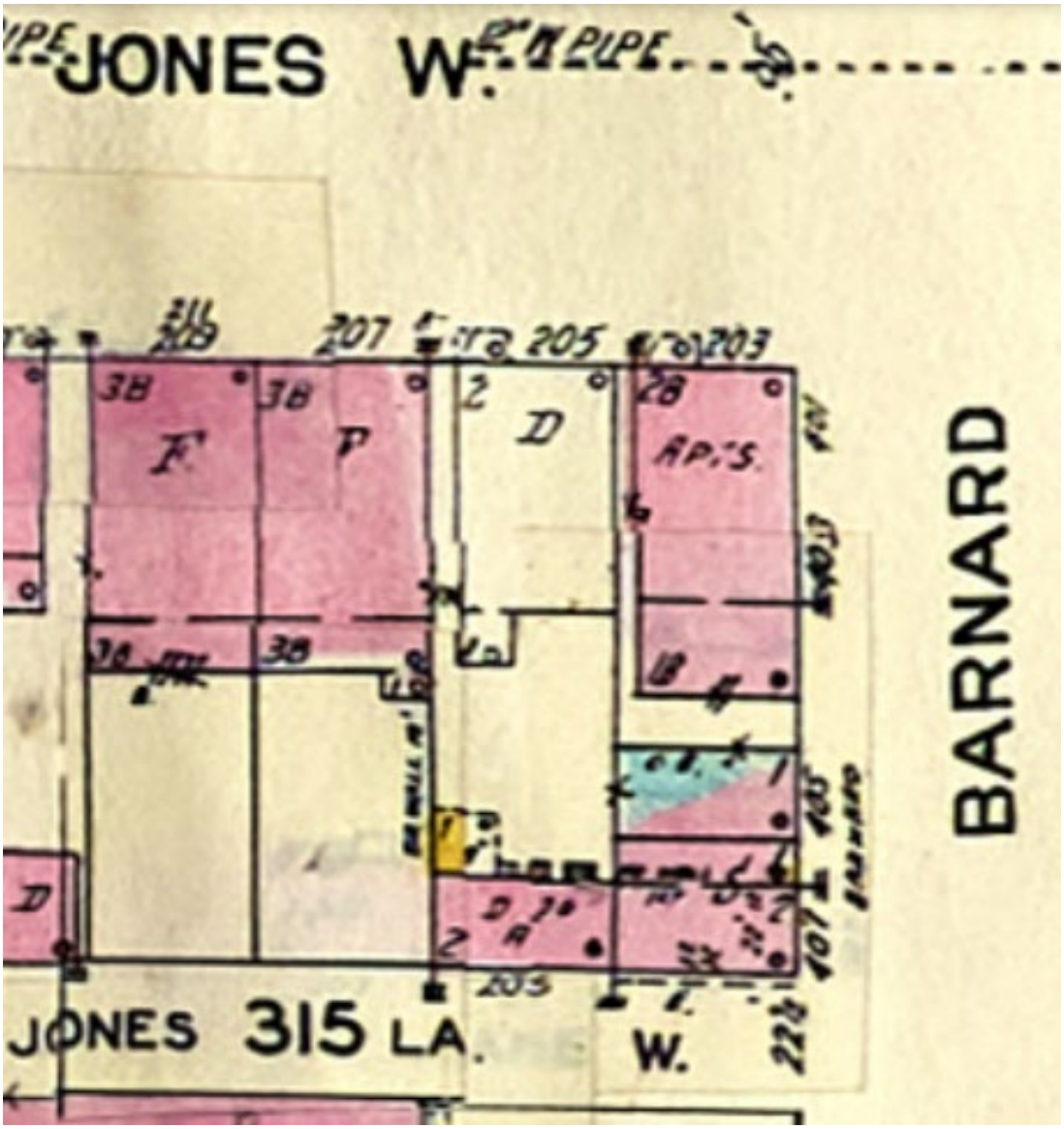
As you can see in the 1898 Sanborn Map, the rear additions of neighboring properties include the notation "3B.", which indicates that the rear additions are 3-stories in height over a raised basement. As you can see with 201 W Jones, previously addressed as 203 W Jones, the rear addition is noted as "1", while the main house is noted as "2B.", meaning the main house was 2-stories over a raised basement, while the rear addition was only 1-story most likely at ground level - not including a raised basement.



As you see, the rear addition becomes 1-story over a raised basement within the 1916 Sanborn Map; however, the rear facade was infilled with wood siding, not brick.



1916 Sanborn Map with 1954 Paste-ins show same condition as 1916



1955 Sanborn Map with 1973 paste-ins show a new condition with the rear addition being entirely clad with brick and is shown as being significantly larger in size than the previous iterations (The previous, smaller addition, can be seen ghosted underneath the 1973 Paste-in; indicating that the new larger brick addition was added some time between 1955 and 1973. The physical book, with obvious ghosting of the previous addition can be found within the City of Savannah's Municipal Archives.

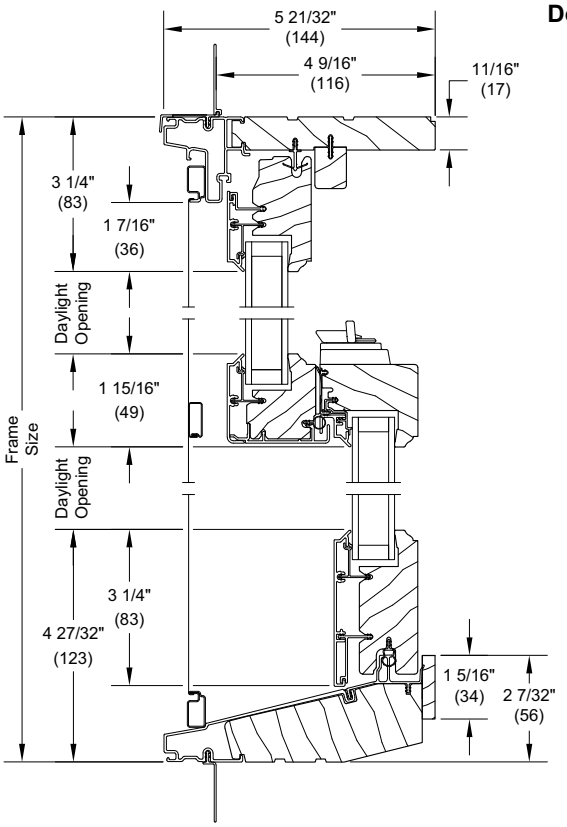
This inclination is further supported by the interior exploratory demolition performed on site. This opening of the walls, photographed below, shows the modern 2X4 interior construction of the wall with a brick veneer cladding of the exterior. This brick veneer, although similar to the historic main structure, as shown in the below images, is most likely salvaged brick from a property elsewhere in the neighborhood; as was common practice in the 1950s-70s as Savannah experienced a large amount of demolition, including the

Hermitage Plantation, bricks would be salvaged and utilized for alterations and additions throughout the city. https://wdanielanderson.wordpress.com/2015/02/27/savannah-historic-district-in-decay-1920s-1970s/

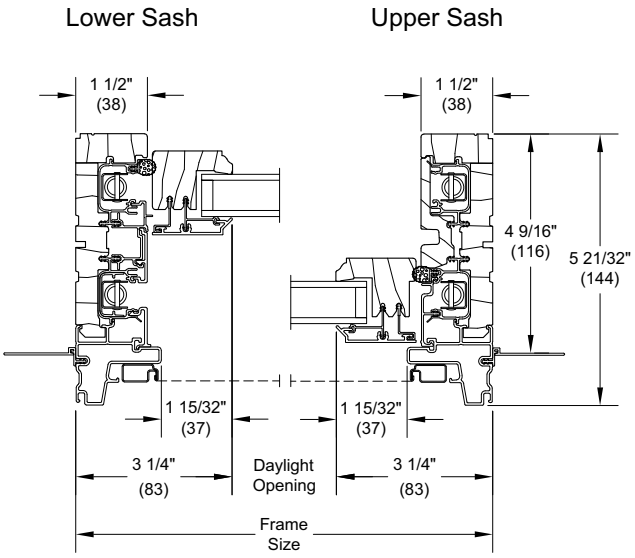
Section Details: Operating

Scale: 3" = 1' 0"

Double Hung

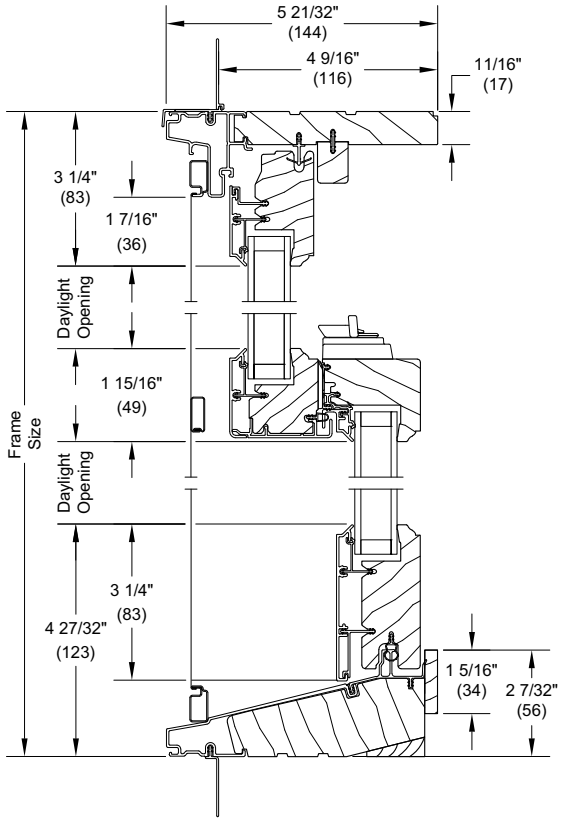


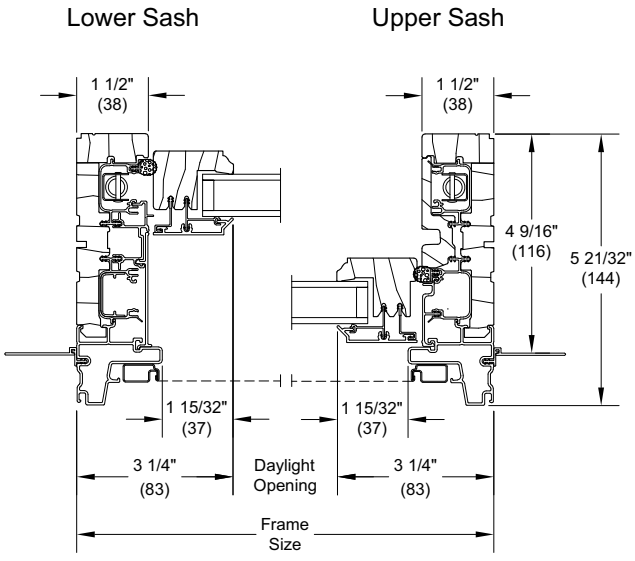
Head Jamb and Sill



Jambs

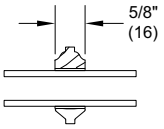
Single Hung



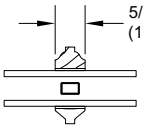


Jambs

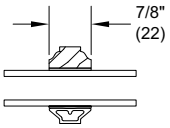
Lite Options



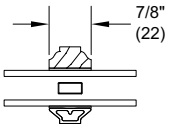
5/8" SDL



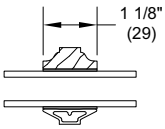
5/8" SDL
W/Spacer



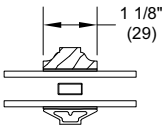
7/8" SDL



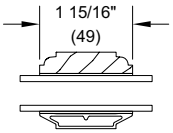
7/8" SDL
W/Spacer Bar



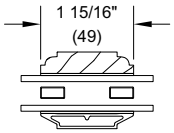
1 1/8" SDL



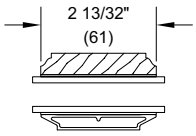
1 1/8" SDL
W/Spacer Bar



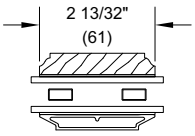
1 15/16 " SDL



1 15/16 " SDL
W/Two Spacer Bars



2 13/32" SDL



2 13/32" SDL
W/Two Spacer Bars

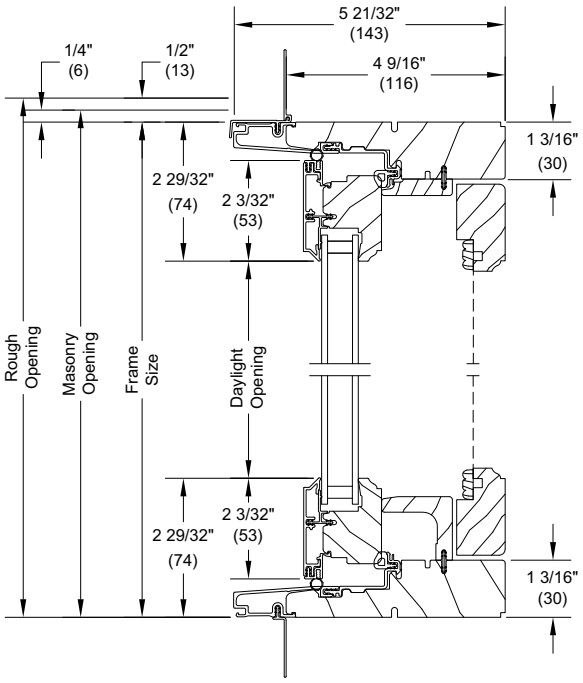
NOTE: Due to the inherent qualities of tempered glass, daylight gaps may be seen when using simulated divided lite bars. Daylight gaps could be visible between the internal spacer bar and surface applied bars when viewing from an acute angle to the glass on the following applications:

- Tempered glass over 72" high while using 5/8" SDL bars

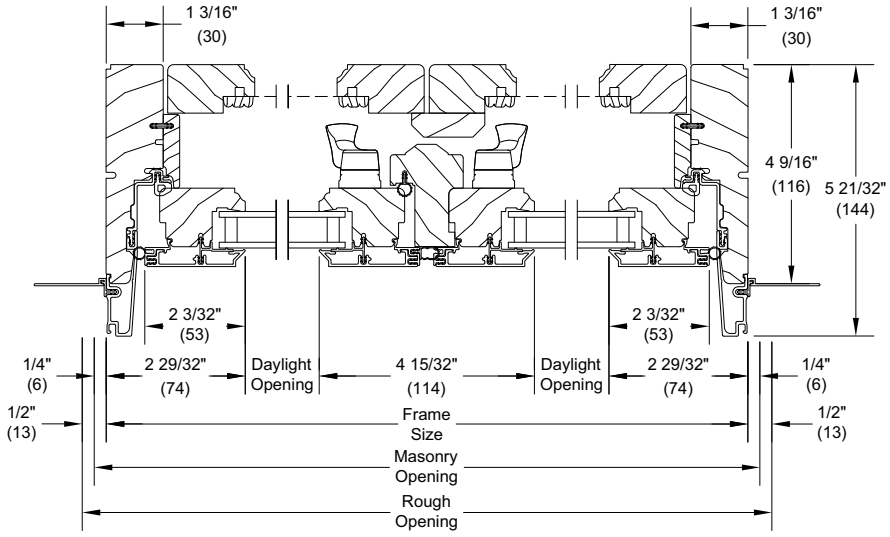
- Tempered glass over 91" high while using 7/8" SDL bars.

Section Details: 3/4" IG Operator - Full Frame

Scale: 3" = 1' 0"



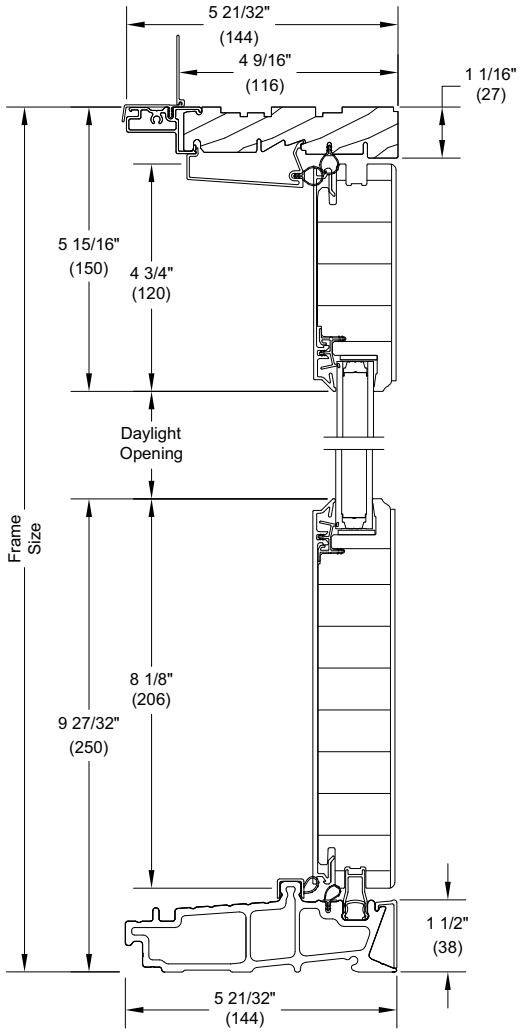
Head Jamb and Sill



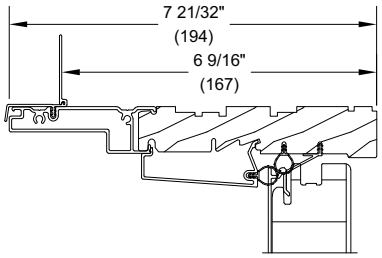
Jambs

Inswing Section Details: Operating (1 3/4" Panels)

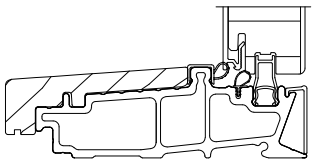
Scale: 3" = 1' 0"



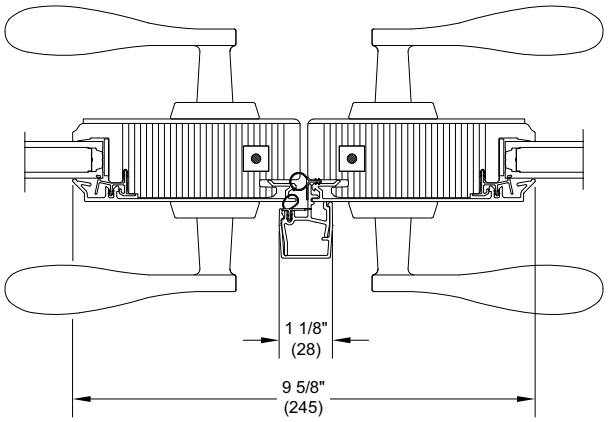
4 9/16" Head Jamb and Sill



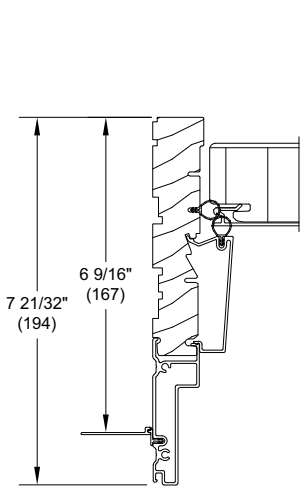
6 9/16" Head Jamb



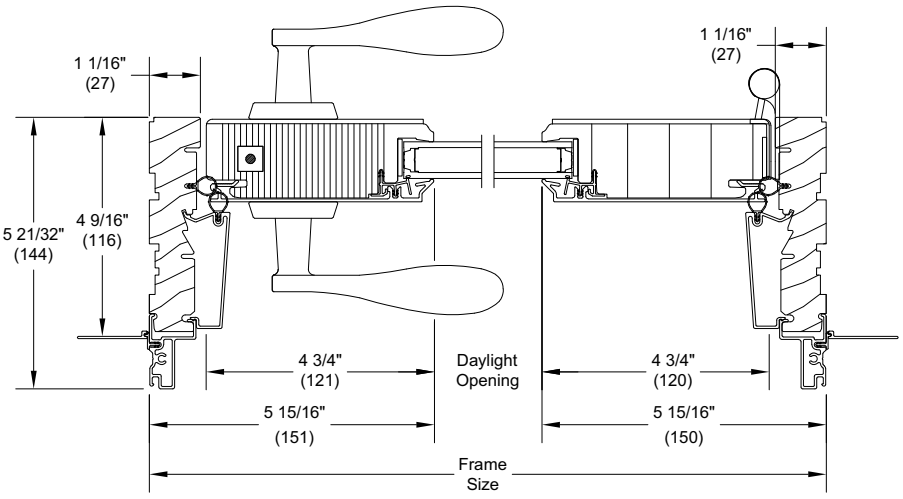
4 9/16" Sill with Sill Cover



XX L - Meeting Stiles



6 9/16" Jamb



4 9/16" X R Jamb

AlumaKlad ColorKlad™

FULL 30 YEAR WARRANTY

The Solar Reflective Index (ASTM E1980) is noted in parentheses for each color. All colors are direct deposit paint samples.
Do not use this sheet to color match. Call your Ryerson representative for a painted metal sample.

Snowdrift (92)

Bone White (82)

Regal White (79)

Stone White (68)


Antique Medium Bronze (31)

Almond (78)

Sandstone (57)


Sierra Tan (56)


Roman Bronze (29)


Dark Bronze (27)


Aged Copper (53)


Dove Gray (48)


Ash Gray (35)


Slate Gray (34)


Charcoal Gray (29)


Patina Green (55)


Classic Evergreen (27)


Hartford Green *p* (24)


Royal Blue (29)


Regal Ocean Blue *p* (25)


Banner Red *p* (46)


Colonial Red (31)

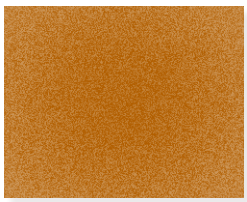

Terra Cotta (39)


Mansard Brown (29)

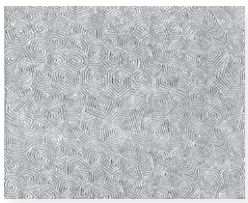

Matte Black (25)


Bright Silver *z* (59)


Silver *z* (48)


Copper Penny *z* (43)


Pre-Weathered *z* (22)


* Acrylic AZ55

WE SELL ENERGY STAR

In testament to the high quality of ColorKlad® and AlumaKlad™, a 30-year written warranty is available upon request, for qualifying applications. Available at no charge, this warranty covers peeling, color fade, chalking and paint integrity. Reference actual warranty for details and conditions. Check suitability of use in potentially corrosive atmospheres. * Acrylic AZ55 is not covered under the ColorKlad® warranty. Metallics (z) and Premiums (p) may be priced higher than standard colors.

AlumaKlad ColorKlad™

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RYERSON CARBON SHEET SOLUTIONS

877-301-3746 | rcss@ryerson.com

AlumaKlad ColorKlad™

SPECS

ColorKlad® — available in a premium cool coating — is the field-proven, time-tested leader in metal roofing. ColorKlad is made of a PVDF coating containing 70% Kynar 500® or Hylar 5000® resin over a high-quality primer, permanently bonded to commercial quality, extra smooth G50 AZ50 & AZ55 Galvalume® or Galvanized G90 sheet or coil.

AlumaKlad™ — available in a premium cool coating — maintains design integrity and attractive appearance when design, climatic and/or atmospheric conditions call for aluminum. AlumaKlad is made of a PVDF coating containing 70% Kynar 500® or Hylar 5000® resin over a high-quality primer, permanently bonded to 3105-H24 aluminum sheet or coil.

COOL COLORS Premium *p* Metallic *z*	Grade 50 ASTM A792-AZ50, AZ55 Style	SRI	24ga		.032"		.040"	.050"
			20"	48"	20"	48"	48"	48"
Acrylic AZ55 *	CLEAR	55	●	●				
Snowdrift	STANDARD	92	●	●	●	●	●	●
Bone White	STANDARD	82	●	●	●	●	●	●
Regal White	STANDARD	79	●	●		●		
Almond	STANDARD	78	●	●	●	●	●	●
Stone White	STANDARD	68	●	●	●	●	●	●
Bright Silver *z*	METALLIC	59	●	●	●	●		
Sandstone	STANDARD	57	●	●		●		
Sierra Tan	STANDARD	56	●	●	●	●	●	●
Patina Green	STANDARD	55	●	●		●		
Aged Copper	STANDARD	53	●	●	●	●		
Silver *z*	METALLIC	48	●	●	●	●		
Dove Gray	STANDARD	48	●	●		●		
Banner Red *p*	PREMIUM	46	●	●		●		
Copper Penny *z*	METALLIC	43	●	●	●	●		
Terra Cotta	STANDARD	39	●	●		●		
Ash Gray	STANDARD	35	●	●		●		
Slate Gray	STANDARD	34	●	●	●	●	●	●
Antique Medium Bronze	STANDARD	31	●	●		●		
Colonial Red	STANDARD	31	●	●		●		
Charcoal Gray	STANDARD	29	●	●	●	●		
Mansard Brown	STANDARD	29	●	●	●	●		
Roman Bronze	STANDARD	29	●	●	●	●		
Royal Blue	STANDARD	29	●	●	●	●		
Classic Evergreen	STANDARD	27	●	●	●	●	●	●
Dark Bronze	STANDARD	27	●	●	●	●	●	●
Matte Black	STANDARD	25	●	●		●		
Regal Ocean Blue *p*	PREMIUM	25	●	●		●		
Hartford Green *p*	PREMIUM	24	●	●		●		
Pre-Weathered *z*	METALLIC	22	●	●		●		

WE SELL ENERGY STAR

AlumaKlad ColorKlad™

Kynar500® is a registered trademark of Arkema, Inc.
Hylar5000® is a registered trademark of Solvay Solexis, Inc.
GALVALUME® is an internationally recognized and registered trademark of BIEC International Inc., and some of its licensed producers, and a trademark of Dofasco Inc. in Canada.

RYERSON
— RYERSON CARBON SHEET SOLUTIONS —
877-301-3746 | rcss@ryerson.com

Louvered Colonial | Black 632

Louvered Colonial

True to centuries-old design, our Louvered Colonial shutters provide timeless elegance with the crisp lines of genuine open louvers. Just as louvered shutters performed the duties of keeping inclement weather out, protecting the home and allowing ambient light, our shutters today provide the same functionality with integrity that will stand throughout your lifetime.

Standard

Additional Rail

Vertical Mullion

Faux Tilt Rod

Atlantic Premium Shutters®

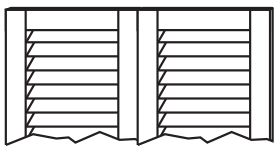
SPECIFICATIONS

GENERAL NOTES

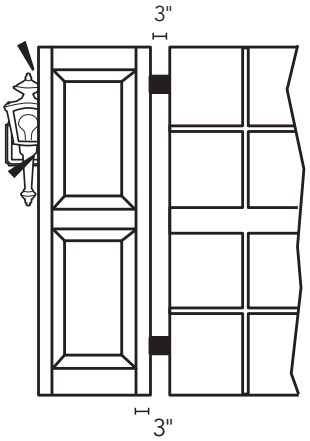
To deflect rain away from the structure, louvered shutters should be installed so the louvers face AWAY from the structure when shutters are closed.

Shutter swing is 3" per shutter from the edge of the open shutter to the edge of the window opening when the shutter is closed; be sure to check for proper clearance (i.e. lamps, fixtures) when the shutter is in the open position.

Hinges are usually applied to the back of the shutter. They are only visible in their entirety when the shutter is in the closed position.



Shutters in closed position



Ensure proper clearance of shutters.

ARCHITECTURAL COLLECTION

MANUFACTURED BY:
Atlantic Premium Shutters,
Latta, South Carolina (O/E)

Nominal Thickness: 1-1/4" stiles and side rails on Louvered Colonials, Combination, or Bahamas. 1" on Raised Panel styles.

Installation: To be installed in either a fixed or operable application in accordance with manufacturer's recommendations, with **no** nailing or screwing through face of shutter.

Material: Pultruded fiberglass and/or high density structural PVC and/or proprietary composite material. All slats and louvered side rails to be fiberglass.

Finish: Industrial grade two-part urethane, oven cured finish. 31 standard colors (custom colors available).

Hardware:
Colonial style shutters

- Black powder coated stainless steel, all other brads and fasteners also to be stainless steel.

Bahama

- Aluminum mill or anodized aluminum black finish arms. Hinges are aluminum with factory-applied two-part acrylic urethane finish.

Performance: All fiberglass louvers and side rails to be thermally stable from –100˚F to +200˚F.

Warranties: Lifetime against defects in materials and factory paint finish. Limited to original purchaser.

CLASSIC COLLECTION

MANUFACTURED BY:
Atlantic Premium Shutters,
Latta, South Carolina (O/E)

Nominal Thickness: See page 37 & 38.

Installation: To be installed in a fixed application in accordance with manufacturer's recommendations, with **no** nailing or screwing through face of shutter.

Material: Solid core composite materials.

Finish: Industrial grade two-part urethane, oven cured finish. 31 standard colors (custom colors available).

Hardware:

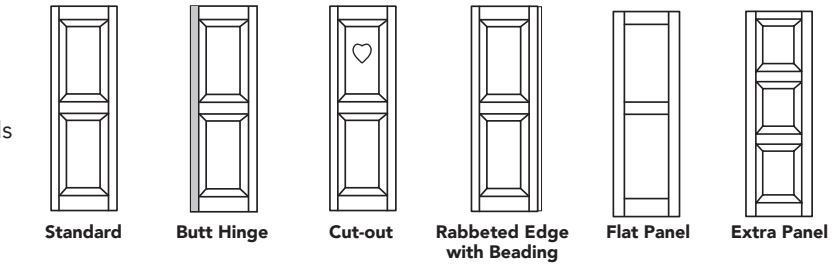
Colonial style shutters

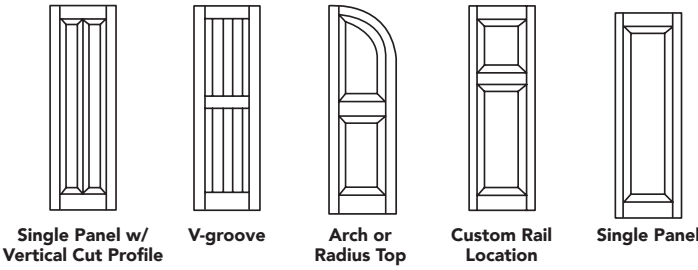
- Clear polycarbonate fixed mounting brackets.

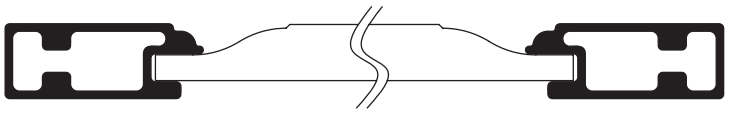
Warranties: 10 Year against defects in materials and factory paint finish. Limited to original purchaser.

ARCHITECTURAL COLLECTION – RAISED PANEL

Rails: Structural PVC with smooth outer skin
Panels: Proprietary exterior grade composite wood materials
Louvers: N/A
Stiles: Pultruded Structural Fiberglass
Primer: Entire product primed
Paint Finish: Two-part Urethane
Thickness: 1"
Width: 12"-30" (in 1/8" increments)
Height: 24"-108" (in 1/8" increments)
Vertical Stile: 2-1/2"
Top Rail: 3"
Middle Rail: 3"
Bottom Rail: 3"

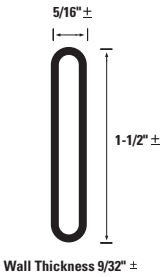


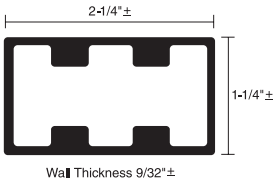


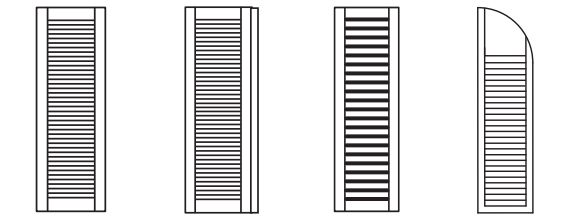


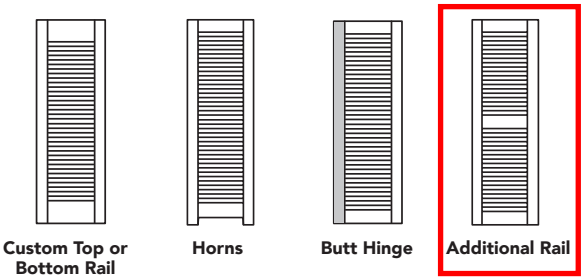
ARCHITECTURAL COLLECTION – LOUVERED COLONIAL

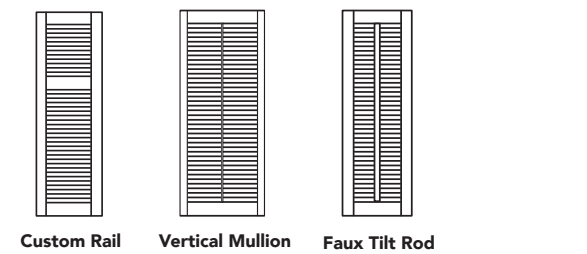
Rails: Structural PVC with smooth outer skin
Panels: N/A
Louvers: Pultruded Structural Fiberglass
Stiles: Pultruded Structural Fiberglass
Paint Finish: Two-part Urethane
Thickness: 1-1/4"
Width: 9"- 30" (in 1/8" increments)
Rail widths, if specified, may vary slightly due to louver/slat positioning
Height: 13-1/2"-108" (in 1/8" increments)
Vertical Stile: 2-1/4"
Top Rail: Standard 4"
Middle Rail: Standard 3-3/8"
Bottom Rail: Standard 4" (may vary)
Louver Angle: 25°











TRADITIONAL HARDWARE

Pintel on Plate
- Sold in pairs
- Pintel plate size - 1-1/2" x 3-1/2" x 1/8" Pin diameter - 3/8"
- Stainless steel with a matte black powder coat finish
- Offsets: 1/2", 1-1/2", 2-1/4", 3-1/2"

Jamb Pintel Offset - 1/2", 1", 2"
- Sold in pairs
- Stainless steel with a matte black powder coat finish

4" Lag Pintel
- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Pin diameter: 3/8"

Pintel Shim
- Sold as each
- Shim is 1/4" thick and stackable
- Black polyamide plastic

10" Strap Hinge
- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Offsets: 0", 1/2", 1-1/2", 2-1/4"

10" Back Plate
- Sold in pairs
- Stainless steel with a matte black powder coat finish

12" Strap Hinge
- Sold in pairs
- Stainless steel with a matte black powder coat finish
- Offsets: 1/2", 1-1/2", 2-1/4"

12" Back Plate
- Sold in pairs
- Stainless steel with a matte black powder coat finish

6" L-Hinge
- Sold in same size pairs
- Stainless Steel with a matte black powder coat finish
- Offsets: 0", 1/2", 1-1/2", 2-1/4"

6" L-Hinge Back Plate
- Sold in pairs
- Stainless Steel with a matte black powder coat finish

Flat Hinge
- Sold in pairs
- Stainless Steel with a matte black powder coat finish
- Offsets: 0", 1/2", 1-1/2", 2-1/4"

Flat Hinge Back Plate
- Sold in pairs
- Stainless Steel with a matte black powder coat finish

TRADITIONAL HARDWARE

Acorn Holdback

- Sold as each
- Chromed Bronze Bullet
- Solid steel hanger bolt and spring clip

Dog Post Holdback

- Sold as each
- Stainless steel with a matte black powder coat finish

"S" Holdback

- Sold in pairs with 4" lag bolt, washer and cotter pin
- Stainless steel with a matte black powder coat finish

Rat-Tail Holdback

- Sold in pairs with 4" lag bolt, washer and cotter pin
- Stainless steel with a matte black powder coat finish

6" Lag Bolt

- Sold in pairs
- Stainless Steel with a matte black powder coat finish
- For use with "S" and Rat-Tail Holdbacks

12" Slide Bolt

- Sold as each
- Stainless Steel with a matte black powder coat finish

12" Locking Slide Bolt

- Sold as each
- Stainless Steel with a matte black powder coat finish

H-Hinge

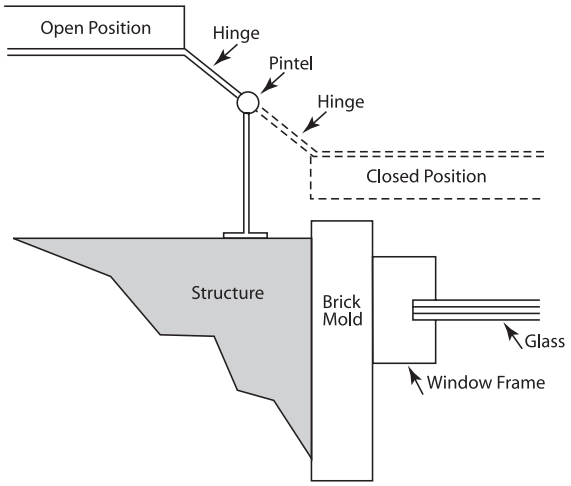
- Sold in pairs
- Stainless Steel with a matte black powder coat finish

9" Adjustable Hinge with 3" Cleat

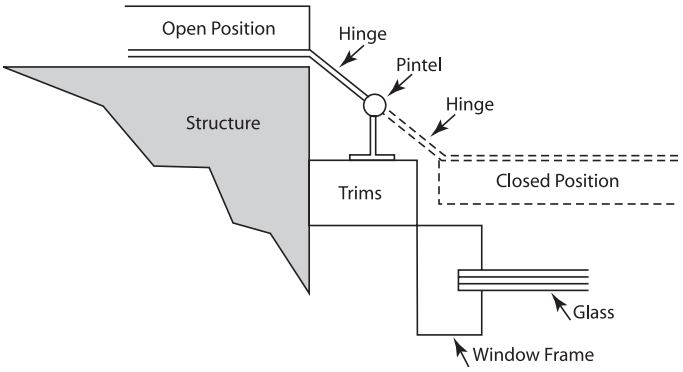
- Sold in pairs

EXAMPLES OF COMMON INSTALLATION OPTIONS - TRADITIONAL HARDWARE

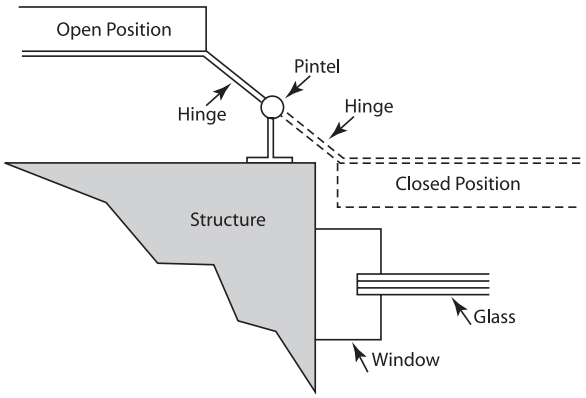
Projected



Recessed



Flush



HINGE REQUIREMENTS

SHUTTER HEIGHT	12" to 48"	49" to 96"	97" to 108"
HINGE REQUIREMENT	2	3	4

THE BROOKSTONE

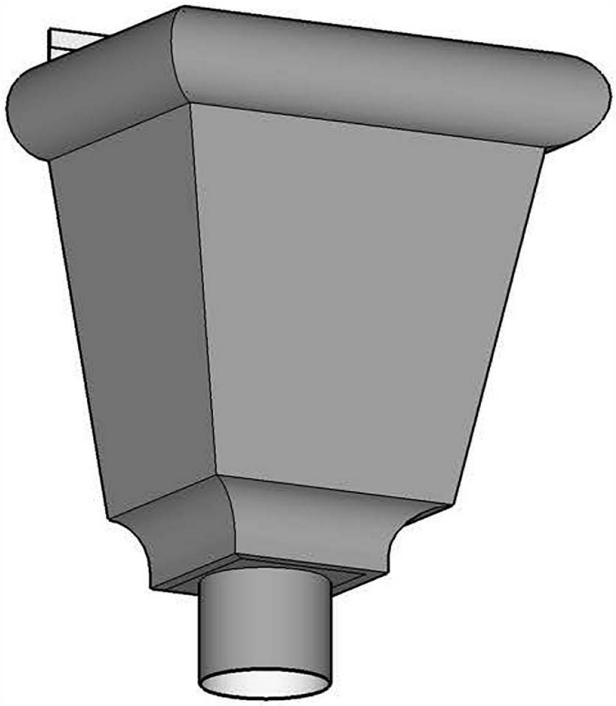
KM SHEET METAL

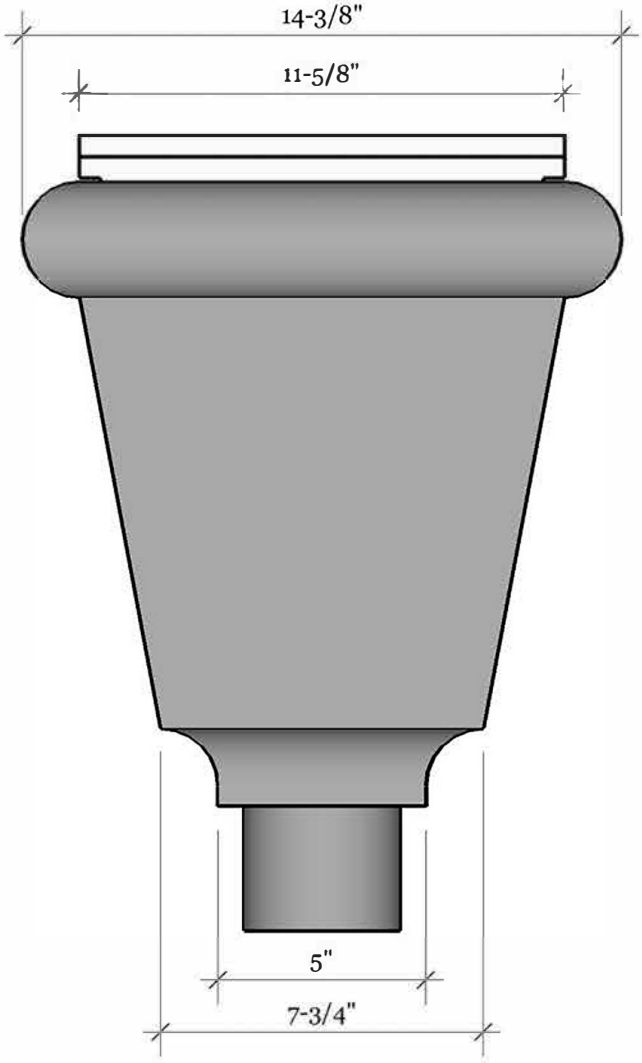
Redefining Sheet Metal

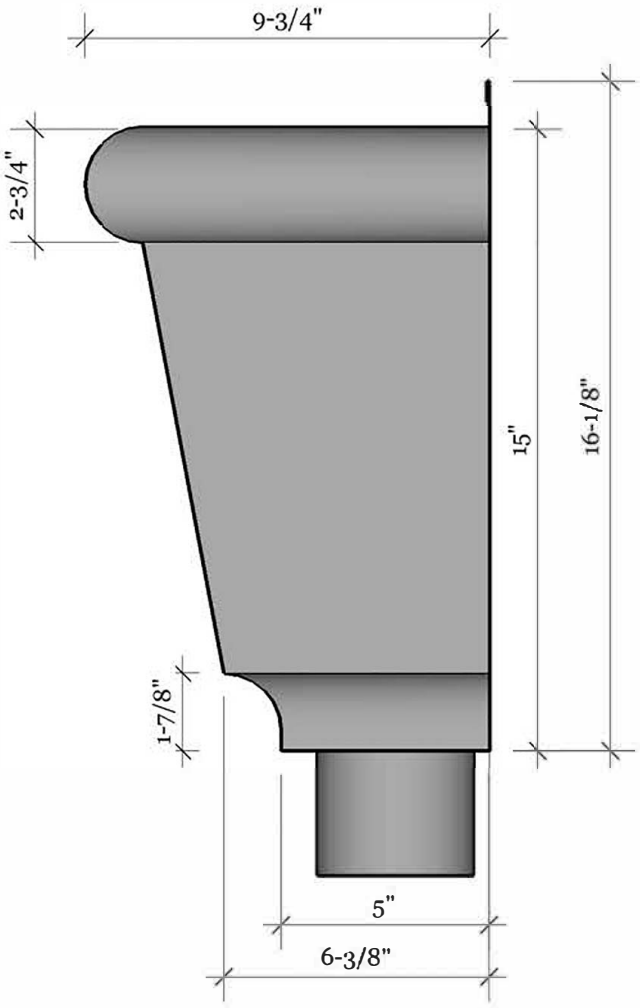
EMAIL: info@kmsheetmetal.com
PH (919) 544-8887 FAX (919) 544-8898
1310 East Cornwallis Road | Durham, NC 27713

THE BROOKSTONE

- AVAILABLE IN COPPER, LEAD COATED COPPER, ZINC GALV-ALUME, .027 ALUMINUM, PAINT GRIP OR PRE-FINISHED STEEL STANDARD COLORS KYNAR FINISH **CUSTOM COLORS AVAILABLE AT AN INCREASED COST**
- CAN ACCOMODATE 3" & 4" ROUND DOWNSPOUT OR 2"x3" & 3"x4" CORRUGATED OR PLAIN DOWNSPOUT







KM SHEET METAL
1310 E. Cornwallis Rd.
Durham, NC 27713
P-(919) 544-8887 F- 544-8898
info@kmsheetmetal.com - www.kmsheetmetal.com

THE BROOKSTONE

CONDUCTOR HEAD

REVISIONS		
	MM/DD/YY	REMARKS
1	3/27/2015	ORIGINAL DRAFT OF DRAWING
2		
3		
4		
5		

D 001 0

SAFETY DATA SHEET

Argos Masonry, Stucco and Mortar Cement

ARGOS

1. IDENTIFICATION

Product Identifier	Argos Masonry, Stucco and Mortar Cement
Synonyms:	Cement, Masonry Cement, Mortar cement, Mortar Mix, Parging Mix, U.S. Cement®, Custom Color Masonry Cement, Portland and Lime, Eaglebond®, Superbond™, Types N, O, S or M, MCN or MCS Cement, Trinity® White* Magnolia® Buff, Dark and Ultra Dark Masonry Cement, Premium Stucco Mix, Florida Super Stucco, Florida Super Masonry, Super Stucco, Super 1 Stucco and Florida Masonry Cement.
Intended use of the product:	Cement is used as a binder in concrete and mortars that are widely used in construction.
Contact:	Argos Cement 3015 Windward Plaza Suite 300 Alpharetta, GA 30005 mheaton@argos-us.com Contact Person: Michael J. Heaton
Contact Information:	EMERGENCY TELEPHONE NUMBER (24 hrs): (800)424-9300 COMPANY CONTACT (business hours): (678)368-4300 (8 AM-4 PM EST)

2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):		
Skin Corrosion/Irritation	Category 1	H314
Skin Sensitization	Category 1	H317
Serious Eye Damage/Eye Irritation	Category 1	H318
STOT SE	Category 3	H335
Carcinogenicity	Category 1A	H350
STOT RE	Category 1	H372

Labeling Elements

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US):

H314 – Causes severe skin burns and eye damage.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.
H335 – May cause respiratory irritation.
H350 – May cause cancer.
H372 – Causes damage to lung through prolonged or repeated exposure inhalation.

Precautionary Statements (GHS-US) :

Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264- Wash thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves.
Response	P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical attention/advice. P310 – Immediate call a POISON CENTER/Doctor. P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention. P363 – Wash contaminated clothing before reuse.
Storage	P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
Disposal	P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information

Name	Product Identifier (Cas#)	% (w/w)	Classification
Portland Cement	65997-15-1	30-75	Skin Irritant 1C, H314 Eye Corr. 1, H318 Skin Sensitization 1, H317 STOT SE 3, H335
Limestone	1317-65-3	0-50	Not Classified
Calcium Hydroxide	1305-62-0	0-75	Skin Irritant 2, H315 Eye Irritant 1, H318
Magnesium Hydroxide	1309-42-8	0-38	Skin Sensitizer 1, H317
Calcium sulfate dehydrate	133397-24-5	5-10	Not Classified
Quartz	14808-60-7	< 10	Carcinogenicity 1A, H350 STOT RE 1, H372
Magnesium oxide	1309-48-4	0-4	Skin Irr. 3 (H316) Eye Irr. 2 (H320) Repro 2 (H361) STOT SE 3 (H335)

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Inhalation of large amounts of Portland cement requires immediate medical attention. Call a poison center or physician.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water and afterwards drink plenty of water. Get immediate medical attention.
Eye Contact	In case of contact get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 30 minutes. Chemical burns must be treated promptly by a physician.
Skin Contact	Wash off with plenty of water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Absorption	As with skin contact, remove contaminated clothing and flush with copious amounts of water. Flush affected area for at least 15 minutes to minimize potential for further absorption. Seek medical attention if significant portions of skin have been exposed.

Most Important Symptoms
Product becomes alkaline when exposed to moisture and may cause skin burns. May cause serious eye damage. May cause allergic skin reaction. Carcinogen; breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease. Inhalation of dusts may cause respiratory irritation or burns.

Indication of any immediate medical attention and special treatment needed
Note to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Flammable Properties
This product is not flammable or combustible.

Extinguishing Media
Use an extinguishing agent suitable for the surrounding fire.

Specific Hazards / Products of Combustion
No specific fire or explosion hazard.

Special Precautions and Protective Equipment for Firefighters
Move containers from fire area if this can be done without risk. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

See Section 9 for fire properties of this chemical including flash point, autoignition temperature, and explosive limits

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 for additional information.

Environmental Precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if reportable thresholds have entered the environment, including waterways, soil or air. Materials can enter

waterways through drainage systems.

Containment and Clean-Up Methods
Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place dust in a closed, labeled waste container. Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor

7. HANDLING AND STORAGE

Handling Precautions
Avoid contact with eyes, skin, or clothing. This product contains quartz, which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage
Keep container tightly closed in a dry and well-ventilated place. Avoid contact with water and moisture. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits
US. ACGIH Threshold Limit Values
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dehydrate: TWA 10 mg/m3 Inhalable fraction.
(CAS# 13397-24-5)
Magnesium oxide: TWA 10 mg/m3 Inhalable fraction.
(CAS# 1309-48-4)
Portland cement TWA 1 mg/m3 Respirable fraction.
(CAS# 65997-15-1)
Quartz: TWA 0.025 mg/m3 Respirable fraction.
(CAS# 14808-60-7)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Components Type Value Form
Calcium Hydroxide: PEL 5 mg/m3 Respirable fraction.
(CAS# 1305-62-0)
Calcium sulfate dehydrate: PEL 5 mg/m3 Respirable fraction 15 mg/m3 Total dust.
(CAS# 13397-24-5)
Limestone: PEL 5 mg/m3 Respirable fraction 15 mg/m3 Total dust.
(CAS# 1317-65-3)
Magnesium oxide: PEL 15 mg/m3 Total particulate.
(CAS# 1309-48-4)
Portland cement: PEL 5 mg/m3 Respirable fraction 15 mg/m3 Total dust.
(CAS# 65997-15-1)

US. OSHA Table Z-3 (29 CFR 1910.1000)
Components Type Value Form
Portland cement: TWA 50 mppcf
(CAS# 65997-15-1)
Quartz: TWA 0.3 mg/m3 Total dust, 0.1 mg/m3 Respirable, 2.4 mppcf Respirable.
(CAS# 14808-60-7)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dehydrate: TWA 10 mg/m3
(CAS# 13397-24-5)
Limestone: TWA 10 mg/m3
(CAS# 1317-65-3)
Magnesium oxide: TWA 10 mg/m3 Fume.
(CAS# 1309-48-4)
Portland cement: TWA 10 mg/m3
(CAS# 65997-15-1)
Quartz: TWA 0.025 mg/m3 Respirable particles.
(CAS# 14808-60-7)

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dihydrate: STEL 20 mg/m3 Total dust, TWA 10 mg/m3 Inhalable
(CAS#13397-24-5)
Limestone: STEL 20 mg/m3 Total dust, TWA 3 mg/m3 Respirable fraction 10 mg/m3 Total dust.
(CAS# 1317-65-3)
Magnesium oxide: STEL 10 mg/m3 Respirable dust and/or fume, TWA 3 mg/m3 Respirable dust and/or fume, 10 mg/m3 Inhalable fume.
(CAS# 1309-48-4)
Portland cement: TWA 3 mg/m3 Respirable fraction, 10 mg/m3 Total dust.
(CAS# 65997-15-1)
Quartz TWA 0.025 mg/m3 Respirable fraction.
(CAS# 14808-60-7)

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dehydrate: TWA 10 mg/m3 Inhalable fraction.
(CAS# 13397-24-5)
Magnesium oxide: TWA 10 mg/m3 Inhalable fraction.
(CAS# 1309-48-4)
Portland cement: TWA 10 mg/m3
(CAS# 65997-15-1)
Quartz: TWA 0.1 mg/m3 Respirable.
(CAS# 14808-60-7)

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dehydrate: TWA 5 mg/m3 Respirable dust, 10 mg/m3 Total dust.
(CAS# 13397-24-5)
Limestone: TWA 10 mg/m3 Total dust.
(CAS# 1317-65-3)
Magnesium oxide: TWA 10 mg/m3 Fume.

(CAS# 1309-48-4)
Portland cement: TWA 5 mg/m3 Respirable dust, 10 mg/m3 Total dust.
(CAS# 65997-15-1)
Quartz: TWA 0.1 mg/m3 Respirable dust.
(CAS# 14808-60-7)

Mexico. Occupational Exposure Limit Values
Components Type Value Form
Calcium Hydroxide: TWA 5 mg/m3
(CAS# 1305-62-0)
Calcium sulfate dehydrate: TWA 10 mg/m3
(CAS# 13397-24-5)
Limestone: STEL 20 mg/m3, TWA 10 mg/m3
(CAS# 1317-65-3)
Magnesium oxide: TWA 10 mg/m3 Fume.
(CAS# 1309-48-4)
Portland cement: STEL 20 mg/m3, TWA 10 mg/m3
(CAS# 65997-15-1)
Quartz: TWA 0.1 mg/m3
(CAS# 14808-60-7)

Engineering Controls
Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Personal Protective Equipment

Exposure	Equipment
Eye / Face	To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet cement. Contact lenses should not be worn when working with cement or cement products.
Skin	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information. Do not rely on barrier crèmes; barrier crèmes should not be used in place of gloves.
Respiratory	Avoid tasks which cause dust to become airborne. Use local or general ventilation to control exposure below applicable exposure limits. Use NIOSH/MSHA approved (30 CFR 11) or NIOSH approved (42 CFR 84) respirators in poorly ventilated areas, or if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation.
General Hygiene considerations	Periodically wash affected areas contacted by dry or wet cement products with a pH neutral soap. When using, do not eat, drink, or smoke. Wash again at the end of work. If clothing becomes saturated with wet cement products, it should be removed and replace with clean dry clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments
Appearance	Solid Gray, buff or white powder	
Physical State	Solid	
Odor	Odorless	

Property	Value	Comments
Odor Threshold	Not available	
pH	12-13 in water	
Melting / Freeze Point	Not available	
Boiling Point And Range	> 1832 °F (> 1000 °C)	
Flash Point	Not flammable. Not combustible.	
Evaporation Rate	Not available	
Flammability	Not available	
Flammability Limits	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	2.65-3.15	
Solubility	Slight (0.1-1%)	
Partition Coefficient	Not available	
Autoignition Temperature	Not available	
Decomposition Temperature	Not available	
Viscosity	Not available	
Percent Volatiles	Not available	

10. STABILITY AND REACTIVITY

Reactivity
Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.

Stability
The product is stable under normal conditions of use, storage and transport.

Reactions / Polymerization
Not expected to occur

Conditions to Avoid
Contact with incompatible materials. When exposed to air it will absorb carbon dioxide to form calcium carbonate and magnesium oxide. When heated at temperatures above 580 deg. C, it loses water to form calcium oxide, magnesium oxide and water.

Incompatible Materials
Wet material is alkaline and will react with acids, ammonium salts, aluminum and other reactive metals. Hardened material is attacked by hydrofluoric acid releasing toxic silicon tetrafluoride gas.

Hazardous Decomposition Products
None expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Effects: Product becomes alkaline when exposed to moisture. Contact with wet concrete can burn skin and eyes. Dust from the dry material can cause irritation and possible burns to the eyes and respiratory tract. Symptoms can be delayed.

Acute Toxicity (Inhalation LC50)
Portland cement (CAS# 65997-15-1): >1 mg/L (rat, 4hr)
Limestone (CAS# 1317-65-3): LC50 > 3 mg/L (rat, 4 hr) (Similar substance)
Calcium Hydroxide (CAS# 1305-62-0): No data available
Calcium Sulfate dehydrate (CAS# 13397-24-5): LC50 > 3.26 mg/L air (inhalation, dust, 4 h)
Magnesium Oxide (CAS# 1309-48-4): No data available
Quartz (CAS# 14808-60-7): No data available

Acute Toxicity (Oral LC50)
Portland cement (CAS# 65997-15-1): No data available
Limestone (CAS# 1317-65-3): LD50 6450 mg/kg (rat) (similar substance)
Calcium Hydroxide (CAS# 1305-62-0): LD50 7340 mg/kg (rat)
Calcium Sulfate dehydrate (CAS# 13397-24-5): LD50 > 2000 mg/kg (rat)
Magnesium Oxide (CAS# 1309-48-4): LD50 3870 mg/kg (rat)
Quartz (CAS# 14808-60-7): LD50 500 mg/kg (rat)

Acute Toxicity (Dermal LC50)
Portland cement (CAS# 65997-15-1): No data available
Limestone (CAS# 1317-65-3): LD50 > 2000 mg/kg (Similar substance)
Calcium Hydroxide(CAS# 1305-62-0): LD50 > 2500 mg/kg
Calcium Sulfate dehydrate (CAS# 13397-24-5): No data available
Magnesium Oxide (CAS# 1309-48-4): No data available
Quartz (CAS# 14808-60-7): No data available

Skin Corrosion/Irritation: May cause skin irritation. May cause serious burns in the presence of moisture.

Serious Eye Damage/Irritation: Causes serious eye damage. May cause burns in the presence of moisture.

Respiratory or Skin Sensitization: May cause respiratory tract irritation. The product may contain chromates, which may cause an allergic skin sensitization reaction.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Cement may contain trace amounts of respirable crystalline silica and hexavalent chromium which are classified by NTP and IARC as known human carcinogens.

ACGIH Carcinogens
Magnesium oxide (CAS# 1309-48-4): A4 Not classifiable as a human carcinogen.
Portland cement (CAS# 65997-15-1): A4 Not classifiable as a human carcinogen
Quartz (CAS# 14808-60-7): A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity
Quartz (CAS# 14808-60-7): 1 Carcinogenic to humans.

US NTP Report on Carcinogens: Known carcinogen
Quartz (CAS# 14808-60-7): Known To Be Human Carcinogen.

US OSHA Specifically Regulated Substances: Cancer hazard
No data available.

Teratogenicity: No data available.

Specific Target Organ Toxicity (Repeated Exposure): Quartz (CAS #14808-60-7): Category 1, route of exposure: inhalation, target organs: respiratory tract and organs.

Specific Target Organ Toxicity (Single Exposure): Magnesium oxide, Portland cement; Category 3, route of exposure: inhalation and skin contact, target organs: Respiratory tract irritation, skin irritation.

Aspiration Hazard: No data available.

Potential Health Effects: Causes serious eye damage. May cause respiratory irritation. Causes severe burns. May cause an allergic skin reaction. Ingestion: May cause burns to mouth, throat and stomach. May cause nausea, stomach pain and vomiting.

Chronic effects: Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Danger of serious damage to health by prolonged exposure.

Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease. Portland cement (CAS# 65997-15-1): is not classifiable as a human carcinogen.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.

12. ECOLOGICAL INFORMATION

Toxicity:
Data for Mixture: Argos Masonry and Mortar Cement
Aquatic Toxicity- Acute Crustacea EC50 Daphnia 350 mg/l, 48 hours, estimated
Fish LC50 Fish 1058.886 mg/l, 96 hours, estimated

Data for Component: Calcium Hydroxide (CAS# #1305-62-0)
Aquatic Toxicity-Acute Gasterosteus aculeatus 96 hr LC50 = 457 mg/L
Oncorhynchus mykiss 96 hr LC50 = 50.6 mg/L
Crangon septemspinosa 96 hr LC50 = 158 mg/L
Daphnia magna 48 hr EC50 = 49.1 mg/L
Daphnia magna 48 h EC50 > 100 mg/L
Danio rerio 96 h LC50 > 11.1 mg/L

Aquatic Toxicity- Crangon septemspinosa 14 d NOEC = 32 mg/L

Data for Component: Calcium sulfate dihydrate (CAS# 13397-24-5)
Aquatic Toxicity-Acute Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

Data for Component: Quartz (CAS# 14808-60-7)
Aquatic Toxicity- Acute Daphnia magna 24 hr LL50 > 10000 mg/L
Danio rerio 96 hr LL0 = 10000 mg/LDaphnia magna 48 hr EC50 > 100 mg/L (similar substance)
Desmodesmus subspicatus 72 hr EC50 > 14 mg/L (similar substance)

Aquatic Toxicity –Chronic- No data available.

Persistence and Degradation: No data available.

Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other Adverse Effects: No data available.
Other Information: No data available.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

US DOT

UN Identification Number	Not regulated
Proper Shipping Name	Not available
Hazard Class and Packing Group	Not available
Shipping Label	Not available
Placard / Bulk Package	Not available
Emergency Response Guidebook Guide Number	Not available

IATA Cargo

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Cargo	Not available
Max Quantity Per Package Cargo	Not available

IATA Passenger

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
ICAO Label	Not available
Packing Instructions Passenger	Not available
Max Quantity Per Package	Not available

IMDG

UN Identification Number	Not regulated
Shipping Name / Description	Not available
Hazard Class and Packing Group	Not available
IMDG Label	Not available
EmS Number	Not available
Marine Pollutant	Not available

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal, State, and Local Regulatory Information

U.S. Toxic Substances Control Act

All components are on the U.S. EPA TSCA Inventory List

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

This product is not listed as a CERCLA substance.

SARA Section 313- Supplier Notification

This product does not contain any toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate Hazard (Acute) - Yes
Delayed Hazard (Chronic) – Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance (40 CRF 355, Appendix A)-No
Drug Enforcement Administration (DEA) (21 CFR1308.11-15)-Not controlled

State regulations WARNING: This product contains chemical(s) known to the State of California to cause cancer.
US - California Hazardous Substances (Director's):
Calcium Hydroxide (CAS# 1305-62-0)
Magnesium oxide (CAS# 1309-48-4)
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):
Quartz (CAS# 14808-60-7)
US - California Proposition 6S - CRT: Listed date/Carcinogenic substance
Quartz (CAS# 14808-60-7) Listed: October 1, 1988 Carcinogenic.
US - New Jersey RTK - Substances: Listed substance
Calcium Hydroxide (CAS# 1305-62-0)
Calcium sulfate dihydrate (CAS# 13397-24-5)
Limestone (CAS# 1317-65-3)
Magnesium oxide (CAS# 1309-48-4)
Portland cement (CAS# 65997-15-1)
Quartz (CAS# 14808-60-7)
US - Pennsylvania RTK - Hazardous Substances: Listed substance
Calcium Hydroxide (CAS# 1305-62-0)
Calcium sulfate dihydrate (CAS# 13397-24-5)
Limestone (CAS# 1317-65-3)
Magnesium oxide (CAS# 1309-48-4)
Portland cement (CAS# 65997-15-1)
Quartz (CAS# 14808-60-7)
US. Massachusetts RTK - Substance List
Calcium Hydroxide (CAS# 1305-62-0)
Calcium sulfate dihydrate (CAS# 13397-24-5)
Limestone (CAS# 1317-65-3)
Magnesium oxide (CAS# 1309-48-4)
Portland cement (CAS# 65997-15-1)
Quartz (CAS# 14808-60-7)

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status
Controlled

WHMIS classification
D2A - Other Toxic Effects-VERY TOXIC
E – Corrosive

WHMIS labeling

Inventory status	Country(s) or region Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

**A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

16. OTHER INFORMATION

Further information A HMIS® Health rating including an * indicates a chronic hazard
HMIS® ratings
Health: 3*
Flammability: 0
Physical hazard: 0

NFPA ratings
Health: 3
Flammability: 0
Instability: 0

Version:
2016.01.20
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3/21/2016
Prior Issue Date:
1/20/2016

Description of Revisions
Revise to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Portland cement to produce Portland cement products. Users should review other relevant material safety data sheets before working with this Portland cement or working on Portland cement products, for example, Portland cement concrete.

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Abbreviations
ACGIH — American Conference of Governmental Industrial Hygienists
CAS#— Chemical Abstract Service
CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act
CFR — Code of Federal Regulations
DOT — Department of Transportation
GHS — Globally Harmonized System
HEPA — High Efficiency Particulate Air
IATA — International Air Transport Association
IARC — International Agency for Research on Cancer
IMDG — International Maritime Dangerous Goods
NIOSH — National Institute of Occupational Safety and Health
NOEC — No Observed Effect Concentration
NTP — National Toxicology Program
OSHA — Occupational Safety and Health Administration
PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit
RQ — Reportable Quantity
SARA — Superfund Amendments and Reauthorization Act
SDS — Safety Data Sheet
TLV — Threshold Limit Value
TPQ — Threshold Planning Quantity
TSCA — Toxic Substances Control Act
TWA — Time-Weighted Average
UN — United Nations

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** End of Safety Data Sheet **