

University of South Carolina

Harper/Elliott Window Replacement and Access Controls Project

State Project Number: H27-Z324

Project Number: 17403

902 Sumter Street
Columbia, SC 29208



147 Wappoo Creek Drive
Suite 400
Charleston, SC 29412

843.762.2222
843.762.2300

CONSTRUCTION DOCUMENTS

11/02/2017

DRAWING INDEX

Sheet Number	Sheet Name
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GENERAL

G000	COVER SHEET
G001	CODE REVIEW
G002	CODE REVIEW
G101	LIFE SAFETY PLAN - FIRST FLOOR
G102	LIFE SAFETY PLAN - SECOND FLOOR
G103	LIFE SAFETY PLAN - THIRD FLOOR

DEMOLITION

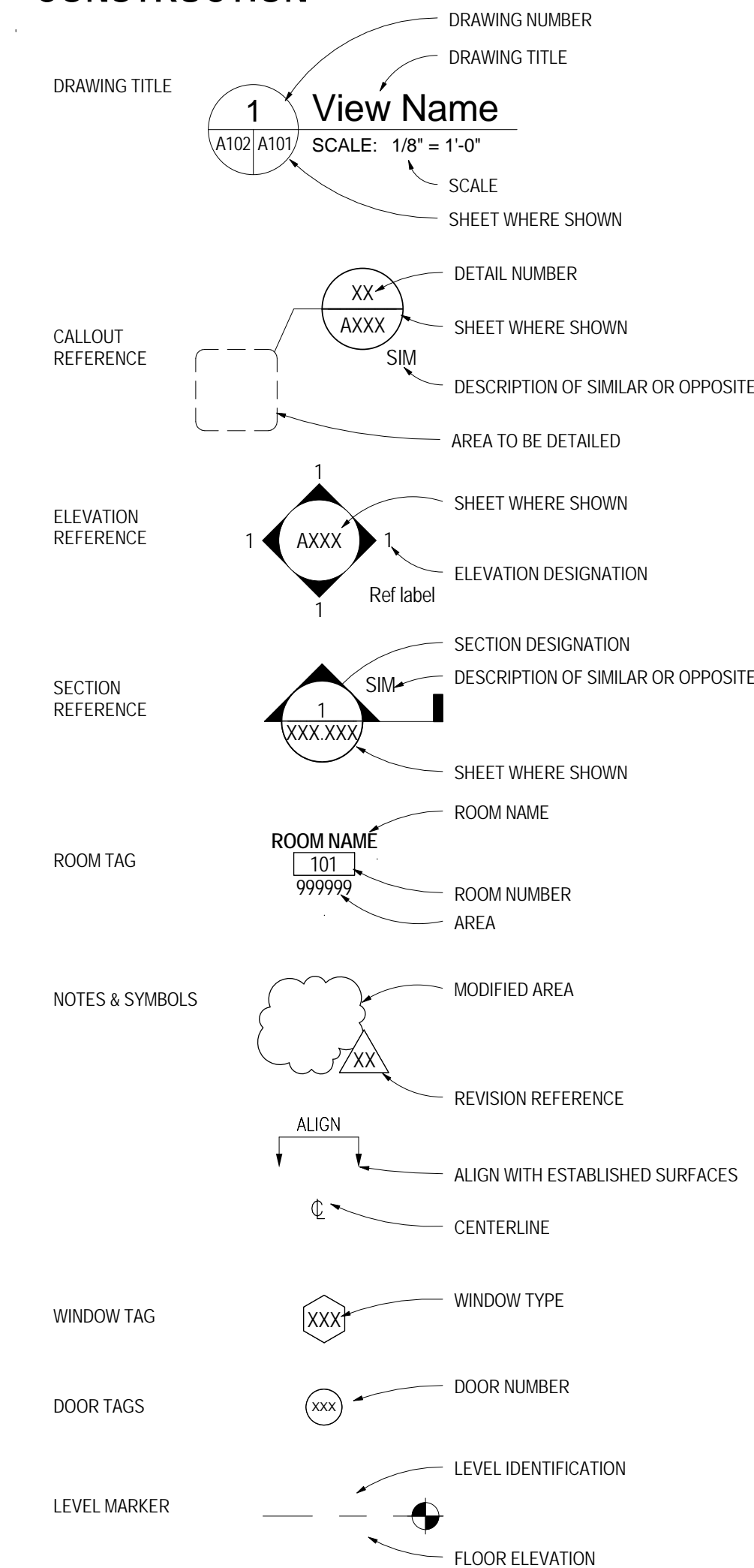
D101	DEMOLITION PLAN - LEVEL 01
D102	DEMOLITION PLAN - LEVEL 02
D103	DEMOLITION PLAN - LEVEL 03
D300	DEMOLITION ELEVATIONS
D301	DEMOLITION ELEVATIONS

ARCHITECTURAL

A101	FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	THIRD FLOOR PLAN
A300	BUILDING ELEVATIONS
A301	BUILDING ELEVATIONS
A600	DOOR SCHEDULE AND TYPES
A601	WINDOW SCHEDULE AND TYPES
A602	WINDOW DETAILS
A603	DOOR DETAILS

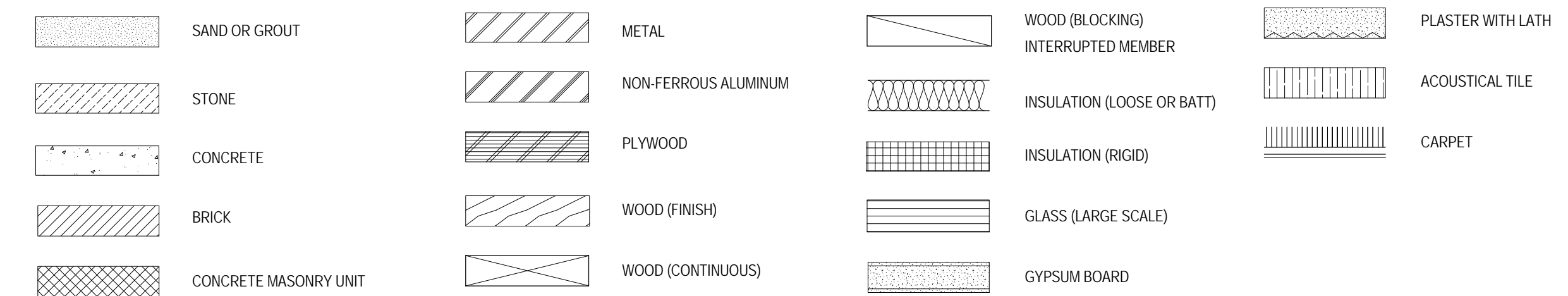
GRAPHIC SYMBOLS

CONSTRUCTION



GRAPHIC SYMBOLS

SECTION INDICATIONS



CONSTRUCTION SITE SIGN

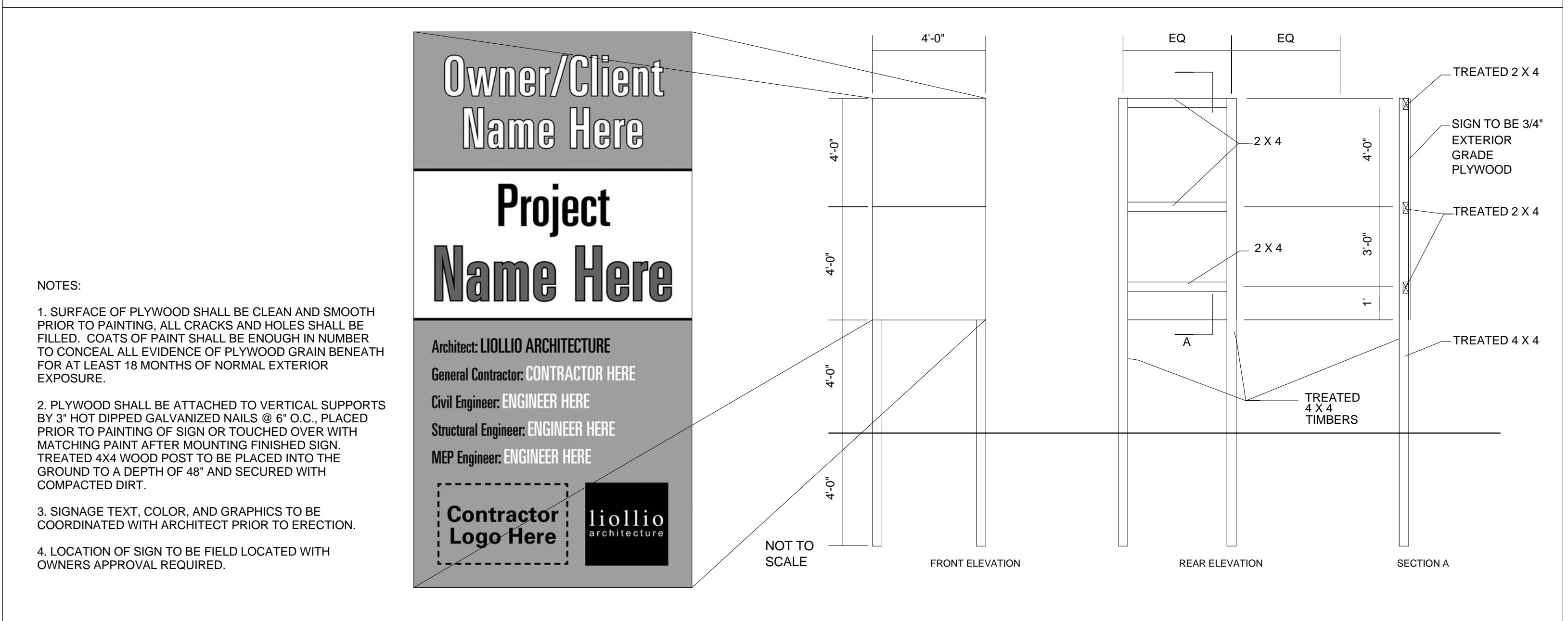


TABLE 5-1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA
Base Flood Elevation NONE _____ MSL
Design Flood Elevation N/A _____ MSL

NON HIGH-VELOCITY WAVE ACTION
Elevation of Lowest Proposed Floor N/A _____ MSL Meet ASCE 24 Section 2.6.2.1/ 2.6.2.2
Dry floodproofing no yes per ASCE 24

HIGH-VELOCITY WAVE ACTION
Elevation of Lowest Proposed Floor N/A _____ MSL Meet ASCE 24 Section 2.6.2.1/ 2.6.2.2
Flotation resistant no yes per ASCE 24
Breakaway wall no yes per ASCE 24

TABLE 5-2 SOILS & SITE

SOILS INVESTIGATION (If required) no yes per IBC 1803.2

SOILS CLASSIFICATION
Site Class _____ per IBC 1613.3.2
Classes Soil of Materials (UCS System) _____ per IBC 1803.5.1
Allowable Footing Bearing Pressure _____ psf

MINIMUM DESIGN SOIL BEARING LOAD _____ psf per IBC table 1806.2

SOILS CLASSIFICATION
Subgrade: _____ Percent ASTM D698 ASTM D1557 AASHTO (only for paving & roads)
Base: _____ Percent ASTM D698 ASTM D1557 AASHTO (only for paving & roads)
Other: _____ Percent ASTM D698 ASTM D1557 AASHTO (only for paving & roads)

MINIMUM DESIGN SOIL LATERAL LOAD _____ psf per IBC table 1610.1

FOOTINGS
Undisturbed footings no yes
Compacted Fill Material no yes per IBC 1804.5

ELEVATIONS
Elevation of Water Table: _____ MSL
Elevation of lowest footing: _____ MSL
Elevation of lowest floor or basement _____ MSL

TABLE 5-3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION	Type: III-B, SPRINKLERED _____ (IBC 602)		
OCCUPANCY GROUP (indicate all) (Note IBC 506.5)	R-2 DORMITORY, B BUSINESS, _____ (IBC 302) A-3 ASSEMBLY		
OCCUPANCY GROUP (indicate most restrictive)	A-3 ASSEMBLY _____ (IBC Table 503)		

Does building require Incidental Use Area Separation?	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	(IBC 509.1)	
Does building have Accessory Occupancy (ies)? If so, what percent of story is Accessory Occupancy?	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	(IBC 508.2)	_____ SF _____ %
Mixed Occupancy	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	(IBC 508)	SEE NOTES BELOW
Non separated	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	(IBC 508.3)	N/A
Separated	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	(IBC 508.4) (IBC 506.5)	RESIDENTIAL VS BUSINESS

OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES
If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to location in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments. Note IBC 414.1.3)

NOTE 1: BUSINESS/RESIDENTIAL SEPARATION PER TABLE 508.4; 1 HOUR (EXISTING ASSUMED)
NOTE 2: ASSEMBLY/RESIDENTIAL SEPARATEION PER TABLE 508.1; 1 HOUR (EXISTING ASSUMED)

TABLE 5-4 BUILDING AREA

AREA LIMIT BY TABLE 506.2 OF IBC (Do not indicate increases for sprinklers & street frontage.)	9,500 SF (area limitation per story)
AREA MODIFICATION FROM EQUATION 5-1 OF IBC (Insert equation from IBC 506.1 with completed calculations in this box) Equation 5-1: $A_a = A_t + [A_t \times I_f] + [A_t \times I_s]$ A_a = Allowable area per story (square feet). A_t = Tabular area per story in accordance with Table 503 I_f = Area increase factor due to frontage (percent) as calculated in accordance with Section 506.2 I_s = Area increase due to sprinkler protection as calculated in accordance with Section 506.3 (Repeat equation for each story of differing occupancies, IBC 506.5.2)	33,250 SF (maximum modified area per story)
TOTAL ALLOWED AREA OF BUILDING (summary of all stories)	99,750 SF
AREA AS DESIGNED PER STORY (Repeat for each story)	7,420 SF (area per story)
TOTAL DESIGNED AREA OF BUILDING	24,835 SF

TABLE 5-5 BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
Without and Allowable Increase (per IBC Table 503)	--	--	55'	2
Allowable Height Increase (per IBC 504.2)	--	--	20'	1
Total Height, including any Allowable Increase	50' EST.	3	75'	3

TABLE 5-6 BUILDING DESIGN OCCUPANT LOAD

Stories & Levels	Function of Space	A Floor Area (specify NSF or GSF)	B Max Area allowed /Occupant(specify NSF or GSF)	C Persons on floor for this Function	D Design Occupant Load
B	MECHANICAL	2,575	300 GSF	9	
	Subtotal Design Occupant Load for This Story				
1	RESIDENTIAL (R-2)	3,975	200 GSF	24	
	BUSINESS (B)	2,782	100 GSF	30	
Subtotal Design Occupant Load for This Story					54
2	RESIDENTIAL (R-2)	3,975	200 GSF	24	
	BUSINESS (B)	2,782	100 GSF	30	
Subtotal Design Occupant Load for This Story					54
3	RESIDENTIAL (R-2)	3,975	200 GSF	24	
	BUSINESS (B)	606	100 GSF	7	
	ASSEMBLY (A-3)	1,498	7 GSF	214	245
Subtotal Design Occupant Load for This Story					362
Total Building Design Occupant Load					

FOOTNOTES:

- Provide the complete name of the Function of space using the left column of Table 1004.1.2 of the IBC.
- Design Area per each occupant of this function on this floor in either Gross or Net square footage
- Allowed Floor Areas in SF per Occupant per right column in Table 1004.1.2 of the IBC.
- Divide Column A (2) by Column B (3) for each function and enter result, rounded up to the nearest whole person (4)
- Subtotal all Column C values for this floor to yield the Design Occupant Load (5)
- Total Building Design Occupant Load - sum of all Column D value (6)

TABLE 5-7 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS

Fireblocking Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 718
Draftstopping Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Section 718
Smoke Control System Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Section 909
Smoke Barriers Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Sections 407 and 408
Smoke Partitions Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IBC Sections 407 and 408
Fire Partition Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 708
Fire Barrier Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IBC Section 707

ALARM & DETECTION

Fire Alarm System Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 907
Emergency Alarm System Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IFC Section 908

SUPPRESSION

Standpipes Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IFC Section 905
Sprinklers Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 903
Sprinklers Provided	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	
Portable Extinguishers Required	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes	per IFC Section 906
Other Suppression Systems Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IFC Section 904
Smoke & Heat Vents Required	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	per IFC Section 910

OTHER: (Indicate other provided fire and life safety features not listed above, if any)

TABLE 5-9 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY _____ per IBC 1803.2

LIVE LOADS
Floor Live Load $F_l =$ _____ PSF List the F_l for each occupancy
Roof Live Load $R_l =$ _____ PSF
Ground Snow Load $p_g =$ _____ PSF IBC Figure 1608.2 (or ASCE 7)

WIND LOADS
Analysis Procedure _____ ASCE 7 or IBC 1609.6
Ultimate Design $V_{ult} =$ _____ MPH IBC Fig's. 1609A-1609C
Wind Speed _____
Exposure Category _____ IBC 1609.4.3
Internal Pressure Coefficient $GC_p =$ _____ ASCE 7
External Pressure Coefficient $GC_e =$ _____ ASCE 7

SEISMIC LOADS
Seismic Importance Factor $I_p =$ _____ ASCE 7 Table 1.5-2
Site Class _____ IBC 1613.3.2
Mapped Spectral Response Acceleration $S_s =$ _____ $S_1 =$ _____
Design Spectral Response Acceleration Parameters $S_{DS} =$ _____ $S_{D1} =$ _____
Seismic Design Category _____ IBC Table 1613.3.5(1) & 1613.3.5(2)
Basic Seismic Force Resisting System _____
Design Base Shear _____ KIPS
Seismic Response Coefficient(s) $C_s =$ _____ ASCE 7
Response Modification Factor(s) $R =$ _____ ASCE 7
Analysis Procedure _____

ARCHITECTURAL-MECHANICAL-ETC. LOADS
Provide as applicable: architectural items, mechanical, plumbing, etc. per ASCE 7

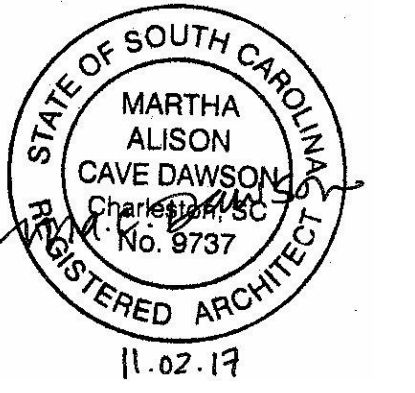
SPECIAL LOADS
Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. per ASCE 7

TABLE 5-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	Rating As Required (in hours)	Rating As Designed (in hours)	Testing Agency & Design No. (UL, FM, etc)	Designers Wall/Partition Key Code
Structural Frame (per IBC Table 601)	0	0		
Bearing Walls Exterior Interior (per IBC Table 601)	2 1	0 1 (ASSUMED)		
Nonbearing Walls & Partitions Exterior Interior (per IBC table 601 & 602) Note footnote "e" from Table 601	0 0	0 0		
Floor Construction including supporting beams & joists (per IBC Table 601)	0*	0* / 1/2 (ASSUMED)		
Roof Construction including supporting beams & joists (per IBC Table 601)	0	0		
Fire Walls (per IBC Table 706)	1	1 (ASSUMED)	UL U906 (ASSUMED)	
Fire Barriers (per IBC Table 707)	N/A	N/A		
Shaft Enclosures (per IBC Table 713)	E&G	2 (ASSUMED)		
Fire Partitions (per IBC Table 708)	1	1 (ASSUMED)		
Opening & Protective Listing by Category (fire shutters, doors, etc. per IBC Section 716)	N/A	NO NEW RATED OPENINGS		
Others (as required by Designer)				



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Revision Date	Description

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Columbia, SC 29208
State Project Number: H27-Z324
Project Number: 17403
Checked By: JMW
Drawn By: ACD
Date: 11/02/2017
Scale:

**G001
CODE REVIEW**

PROJECT DESIGNED IN ACCORDANCE WITH:
International Building Code (IBC), 2015 Edition

TABLE 5-9 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY		per IBC 1803.2
LIVE LOADS		
Floor Live Load	F _r = _____ PSF	List the F _r for each occupancy
Roof Live Load	R _r = _____ PSF	
Ground Snow Load	p _g = _____ PSF	IBC Figure 1608.2 (or ASCE 7)
WIND LOADS		
Analysis Procedure		ASCE 7 or IBC 1609.6
Ultimate Design	V _{ult} = _____ MPH	IBC Fig's. 1609A-1609C
Wind Speed		
Exposure Category		IBC 1609.4.3
Internal Pressure Coefficient	GC _p = _____	ASCE 7
External Pressure Coefficient	GC _p = _____	ASCE 7
SEISMIC LOADS		
Seismic Importance Factor	I _e = _____	ASCE 7 Table 1.5-2
Site Class		IBC 1613.3.2
Mapped Spectral Response Acceleration		S _a = _____ S ₁ = _____
Design Spectral Response Acceleration Parameters		S _{0.2} = _____ S ₀ = _____
Seismic Design Category		IBC Table 1613.3.5(1) & 1613.3.5(2)
Basic Seismic Force Resisting System		
Design Base Shear		KIPS
Seismic Response Coefficient(s)	C _v = _____	ASCE 7
Response Modification Factor(s)	R = _____	ASCE 7
Analysis Procedure		
ARCHITECTURAL-MECHANICAL-ETC. LOADS		
Provide as applicable: architectural items, mechanical, plumbing, etc. per ASCE 7		
SPECIAL LOADS		
Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. per ASCE		

TABLE 5-10 PLUMBING INFORMATION

WATER SYSTEM				
Service Line:	_____ Inches			
Peak Flow:	_____ GPM			
Total Demand:	_____ No. Fixture Units			
SANITARY SEWER SYSTEM				
Loading:	_____ GPD			
Service Line Size:	_____ Inches			
Slope:	_____ min inches/ft			
MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED		Per IPC Section 403 & Table 403.1		
	Male-Required	Male-Provided	Female-Required	Female-Provided
Water Closets				
Lavatories				
Urinals*				
OTHER FIXTURES (Per IPC Sections 403 & Table 403.1)			Required	Provided
Drinking Fountains				
Unisex Toilet				
Service Sink				
Other (list)				
* Urinals - See IPC 419.2 Where mixed Occupancies occur within buildings, expand this table to indicate Occupant loads for each. The minimum required toilet fixtures are calculated for the total Design Occupant Load indicated in Table 5-6.				

TABLE 5-11 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS	
Overall Thermal Transfer Value (OTTV):	_____
Building Cooling Load:	_____ SF / TON
Building Heating Load:	_____ BTUH* / SF (*BTUH = BTU/Hour)
OTHER LOADING FEATURES	
Glass:	U Factor: _____ Window to Wall Ratio _____
Insulation Values:	Roof: _____ Exterior Walls _____
Outside Air minimum while occupied	_____ CFM _____ Occupants
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT	
Briefly describe mechanical system:	

(The above data shall be considered a minimum and any special attribute required to meet the mechanical codes.)

TABLE 5-12 ELECTRICAL INFORMATION

SERVICE TRANSFORMER	<input checked="" type="checkbox"/> By Utility Company	<input checked="" type="checkbox"/> By Agency (if by Agency)	_____ KVA Primary _____ Voltage/Phase
ELECTRICAL SERVICE INFORMATION			
Service Voltage/Phase	_____ Amperes		
Service Entrance Conductors Size	_____ Quantity per Phase		
Total Connected Load	_____ KVA		
Estimated Maximum Demand	_____ KVA		
Available Fault Current in Symmetrical Amperes	_____		
Interrupting Capacity of Serve Overcurrent Device:	_____		
GROUNDING ELECTRODE SYSTEM COMPONENTS: _____ (NEC 250)			
SERVICE TRANSFORMER			
Emergency Generator	<input checked="" type="checkbox"/> no <input checked="" type="checkbox"/> yes	_____ KVA	_____ Voltage/Phase _____ Fuel
Exit/Emergency Lights Backup Power	<input checked="" type="checkbox"/> Integral Battery <input checked="" type="checkbox"/> Generator		
Fire Alarm System	<input checked="" type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic	<input checked="" type="checkbox"/> Addressable <input checked="" type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B	
LIGHTNING PROTECTION PROVIDED			
	<input checked="" type="checkbox"/> no <input checked="" type="checkbox"/> yes		
COMMUNICATIONS COORDINATED			
Contact DSIT Network/Infrastructure Planning for applicability at (803) 896-0001	<input checked="" type="checkbox"/> not required <input checked="" type="checkbox"/> yes		

TABLE 5-13 DESIGN-RELATED CONSTRUCTION PERMITS/APPROVALS

The following list is not all-inclusive of every permit and standards applicable to each project. Agencies and A/Es must delete non-applicable listings and add others for each specific project

TYPE OF DEVELOPMENT	SC LAW OR REGULATION	WHERE TO OBTAIN PERMIT/APPROVAL	STATUS
Air pollutant discharge	48-1-100, R61-62.1	SCDHEC - Air Quality Control	
Ambulatory surgical facilities	R61-91	SCDHEC - Health Facilities Construction	
Asbestos abatement	R61-86.1	SCDHEC - Air Quality Control	
Building construction, Zoning	6-7-10, 6-9-110	Local Authority	
Community residential care facilities	R61-84	SCDHEC - Health Facilities Construction	
Construction in critical coastal areas	48-39-10, 130, 190	SCDHEC - Ocean & Costal Resource Management	
Construction in navigable waters	49-1-16	SCDHEC - Water Pollution Control	
Dams and resevoirs	49-11-200, R72-1, 2, 3	SCDHEC - Water Pollution Control	
Demolition of Real Property	R61-86.1	SCDHEC - Air Quality Control	
Design Review Board (BARs, SC Dept Archives & History, etc.)	Various local	Various local	
Educational facilities (K-12)	59-23-210	SC Department of Education - Office of District Facilities Management	
Elevators	41-16-90	SC Department of Labor, Licensing & Regulation	
Fire Department (Local)	Various local & state	Servicing Fire Department	
Fire Protection Sprinkler	40-10	State Fire Marshal	
Fire suppression systems	R71-8303	State Fire Marshal	
Floodplains, construction in	Exec. Order 82-19	Office of State Engineer	
Food service establishments	R61-25	SCDHEC - Local County Health Department	
Historical building rehabilitation	R12-125	Archives and History, Local Authority	
Hospitals & infirmaries	R61-16	SCDHEC - Health Facilities Construction	
Road encroachment, local	57-7-60	Local City or County Authority	
Road encroachment, state	57-5-1080	Local SCDOT Maintenance Office	
Sanitary sewer, treatment & disposal	R61-56, 57	SCDHEC - Domestic Wastewater	
Storm water discharge, erosion and sediment control	R61-9; R72-100-108	SCDHEC - Water Pollution Control; State Engineer; Local Authority	
Swimming areas, natural public	R61-50	SCDHEC - Water Supply Construction	
Swimming pools, public	R61-51	SCDHEC - Water Supply Construction	
Underground storage tanks	R61-92	SCDHEC - Groundwater Protection	
Waste discharge (sewage, industrial waste, etc.)	48-1-100, 100 R61-9	SCDHEC - Water Pollution Control	
Water supply	44-55-40, R61-57, 58	SCDHEC - Water Supply Construction	
Wells, underground injection	R61-71,87	SCDHEC - Groundwater Protection	
Zoning (Municipal, County or District)	Various		

For Completion of this Table in the Bid Documents Stage, it must indicate the status of each Permit by insertion of "approved" and date in the status column. If not approved, indicate pending approval, phased approval and who (A/E, Agency, Contractor or Other) is to provide that documentation and anticipated date.

TABLE 5-14 STATEMENT OF SPECIAL INSPECTIONS

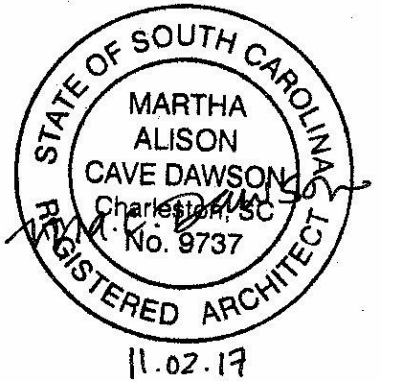
The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1705 of the 2012 International Building Code. Any deviations from the requirements of Section1705 must be approved by OSE

PROJECT NAME:				
PROJECT NUMBER:				
MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY



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△ Revision Date Description

Revision Date	Description

University of South Carolina

Harper/Elliott Window Replacement and Access Controls Project

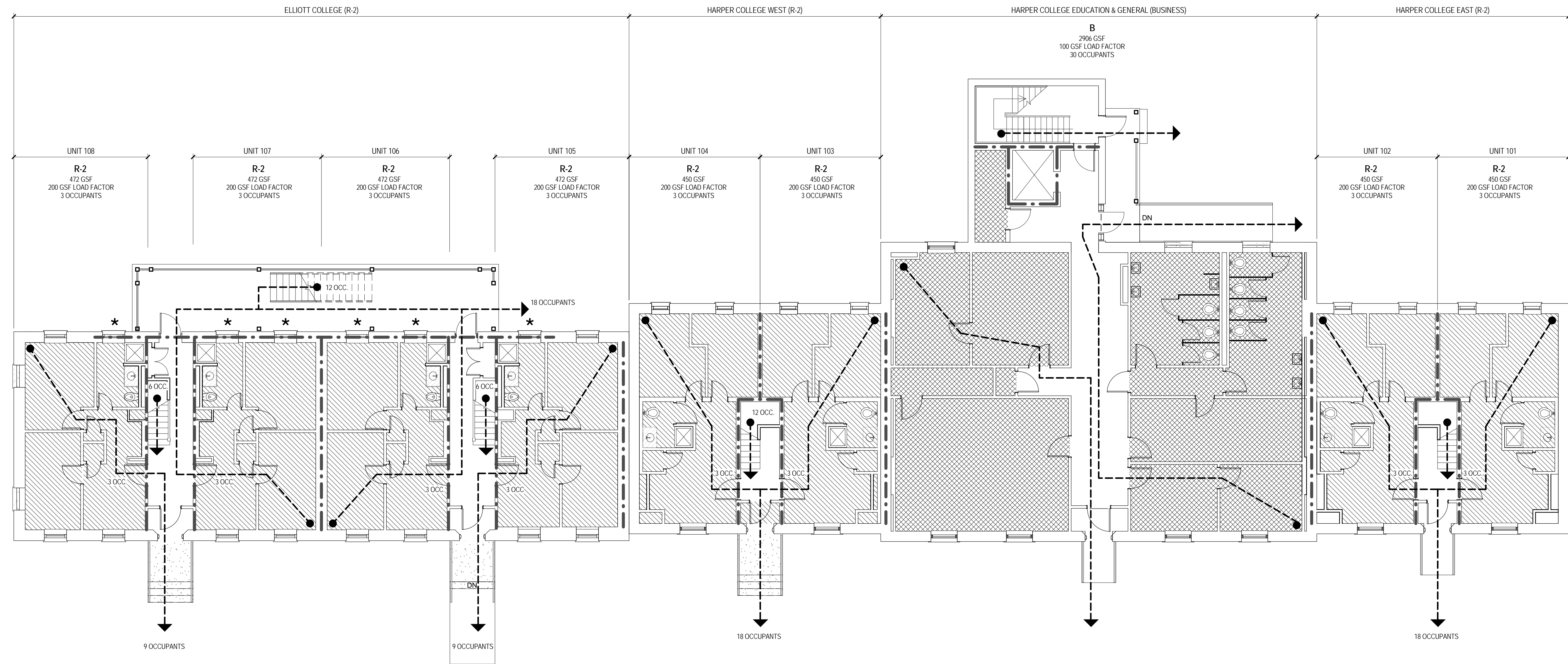
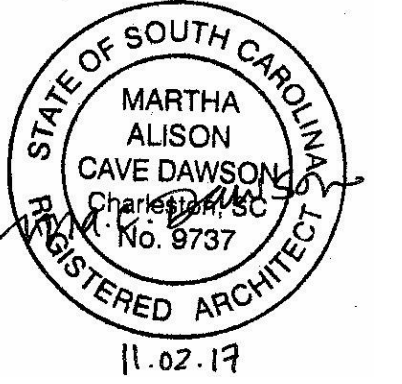
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G002 CODE REVIEW



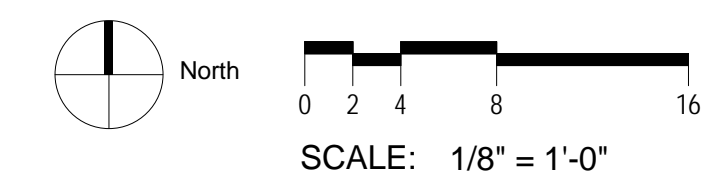
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1 LIFE SAFETY PLAN - LEVEL 01
G101 SCALE: 1/8" = 1'-0"

LIFE SAFETY PLAN LEGEND

SYMBOLS	
— · — · — ·	1 HR RATED WALL (ASSUMED)
# OCC. ▲	EGRESS OCCUPANT LOAD
● — — — — — →	EGRESS PATHWAY
*	FIRE RATED WINDOW (45 MINUTE)
OCCUPANCY TYPES	
▨	RESIDENTIAL (R-2)
▩	BUSINESS (B)
▧	ASSEMBLY (A-3)
□	CIRCULATION



Revision	Date	Description

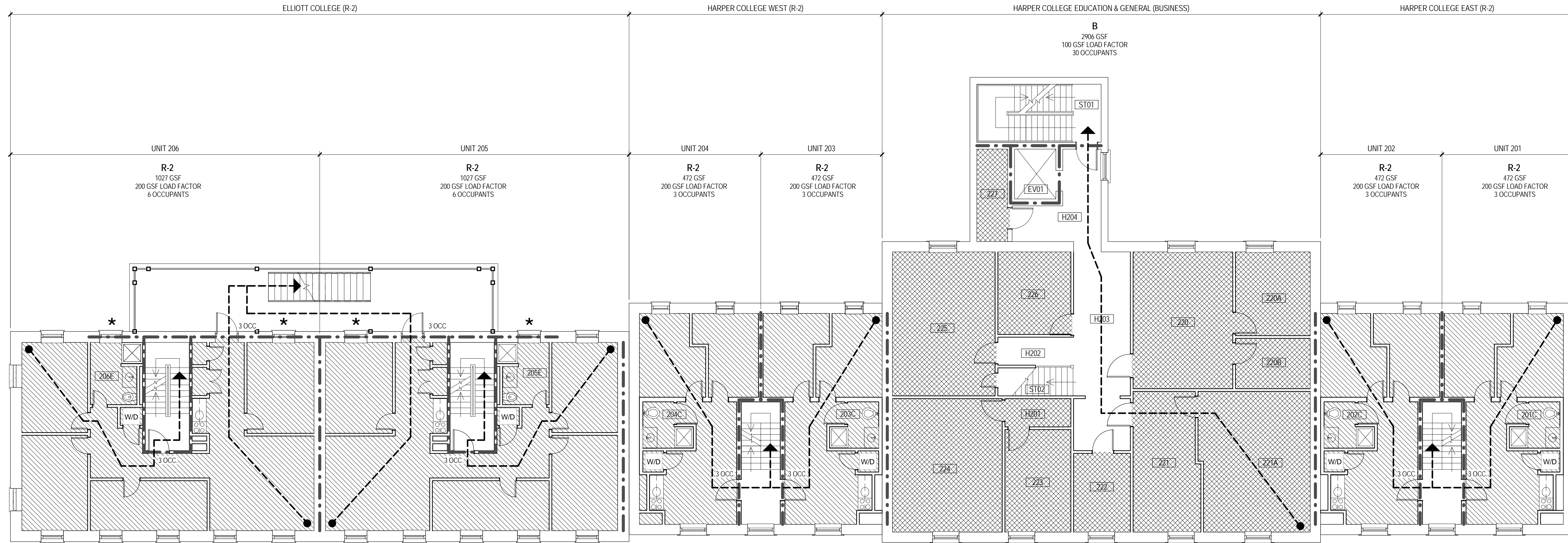
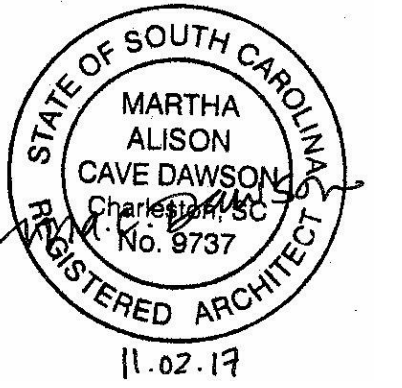
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G101 LIFE SAFETY PLAN - FIRST FLOOR

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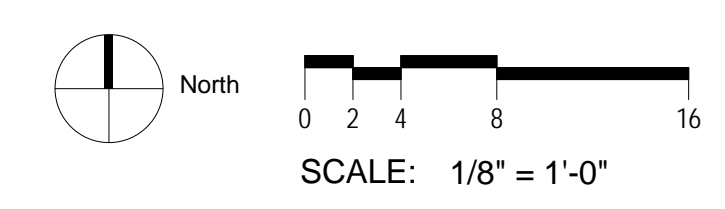
1 LIFE SAFETY PLAN - LEVEL 02
G102 SCALE: 1/8" = 1'-0"

LIFE SAFETY PLAN LEGEND

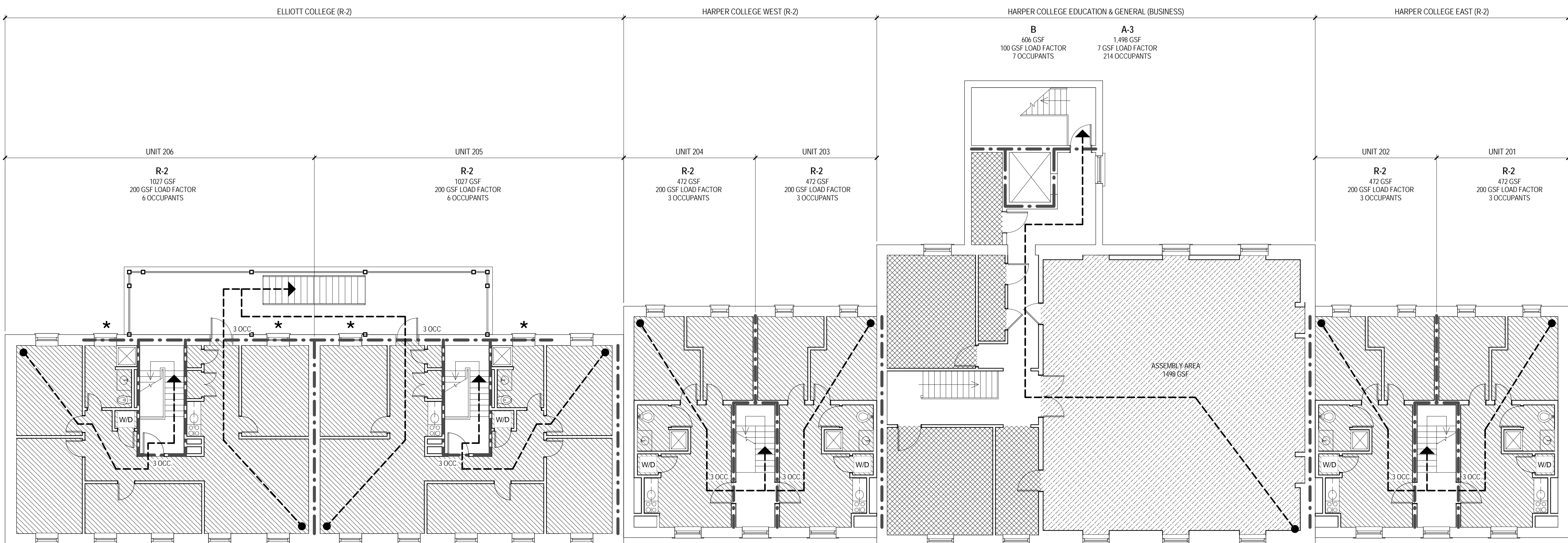
- SYMBOLS
- 1 HR RATED WALL (ASSUMED)
 - # OCC. EGRESS OCCUPANT LOAD
 - EGRESS PATHWAY
 - * FIRE RATED WINDOW (45 MINUTE)
- OCCUPANCY TYPES
- RESIDENTIAL (R-2)
 - BUSINESS (B)
 - ASSEMBLY (A-3)
 - CIRCULATION

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G102 LIFE SAFETY PLAN - SECOND FLOOR



1 LIFE SAFETY PLAN - LEVEL 03 - ELLIOTT
G103 SCALE: 1/8" = 1'-0"

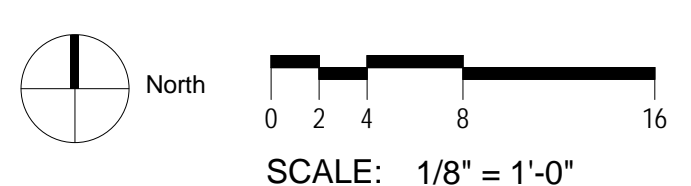
LIFE SAFETY PLAN LEGEND

SYMBOLS

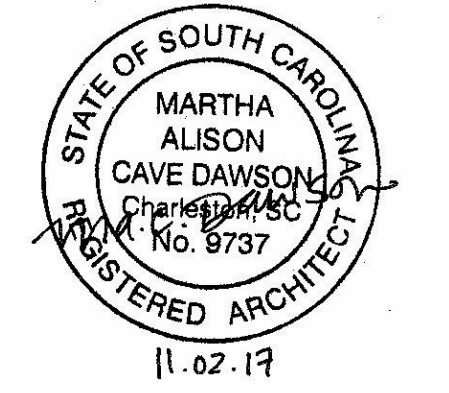
- 1 HR RATED WALL (ASSUMED)
- EGRESS OCCUPANT LOAD
- EGRESS PATHWAY
- FIRE RATED WINDOW (45 MINUTE)

OCCUPANCY TYPES

- RESIDENTIAL (R-2)
- BUSINESS (B)
- ASSEMBLY (A-3)
- CIRCULATION



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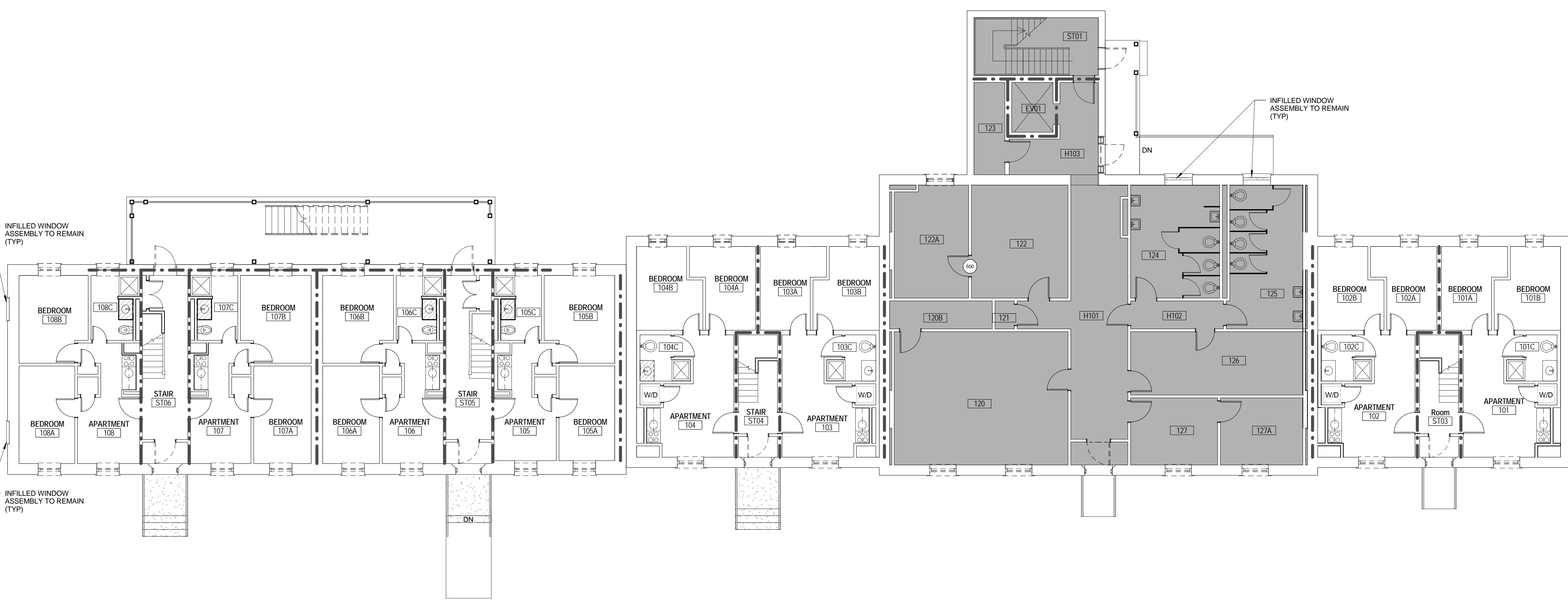


Revision	Date	Description

University of South Carolina
Harper/Elliott Window Replacement and Access Controls Project
 902 Sumter Street
 Columbia, SC 29208
 State Project Number: H27-Z324
 Project Number: 17403
 Checked By: JMW
 Drawn By: ACD
 Date: 11/02/2017
 Scale: 1/8" = 1'-0"

G103
LIFE SAFETY PLAN - THIRD FLOOR

D301 2



D300

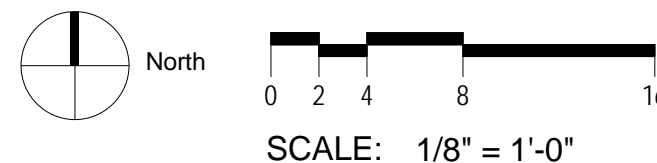
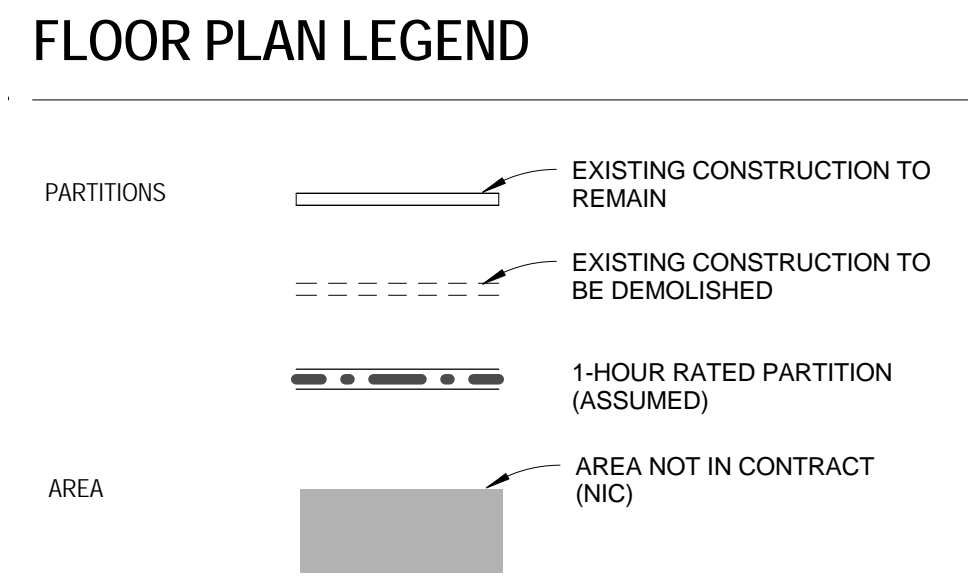
D300

D301

1 FLOOR PLAN - LEVEL 01 - DEMO
D101 SCALE: 1/8" = 1'-0"

Revision	Date	Description

- GENERAL NOTES**
- A REMOVE INTERIOR SECURITY SCREENS FROM WINDOWS WHERE APPLICABLE. CLEAN, REPAIR AND STORE FOR RE-INSTALLATION.
 - B REMOVE ALL DOORS SHOWN DASHED; INTERIOR DOOR FRAMES TO REMAIN.
 - C CAREFULLY REMOVE ALL WINDOWS SHOWN DASHED. PROTECT EXTERIOR STUCCO FROM DAMAGE. SEE WINDOW DETAILS FOR EXTENT OF REMOVAL OF WINDOW AND SURROUNDING BLOCKING, TYP.
 - D ALL OPENINGS WHERE WINDOWS AND DOORS ARE REMOVED SHALL BE CLEANED AND PREPPED TO RECEIVE NEW BUILDING MATERIALS.
 - E OPENINGS SHALL BE COVERED, SECURED AND WATERPROOFED AT ALL TIMES WHEN CONSTRUCTION CREWS ARE NOT PRESENT.
 - F REMOVE AND STORE ALL SHUTTERS AND HARDWARE FOR REINSTALLATION, TYP.
 - G STUCCO HEADERS AND SILLS TO REMAIN, TYP. CUT AND PATCH TO MATCH EXISTING AS REQUIRED FOR WINDOW REPLACEMENT.



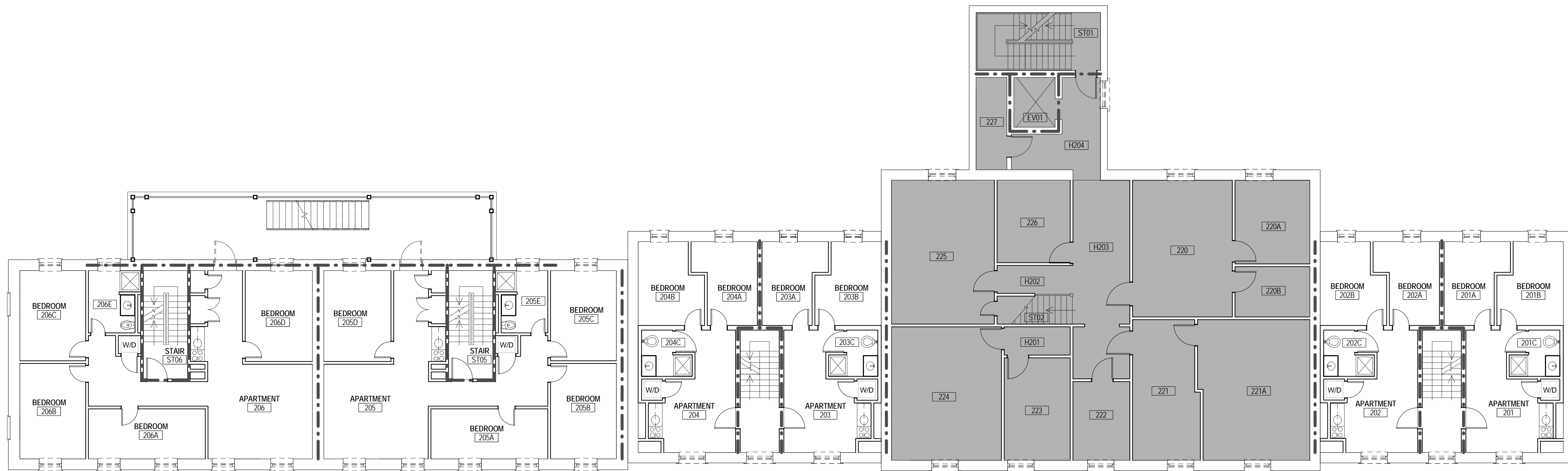
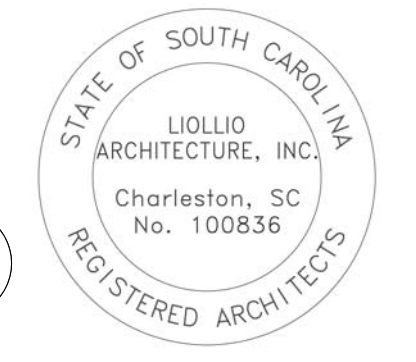
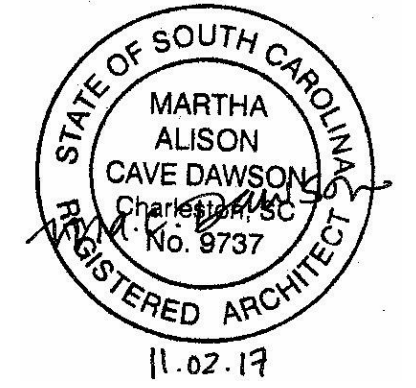
University of South Carolina
Harper/Elliott Window Replacement and Access Controls Project
902 Sumter Street
Columbia, SC 29208
State Project Number: H27-Z324
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**D101
DEMOLITION PLAN -
LEVEL 01**



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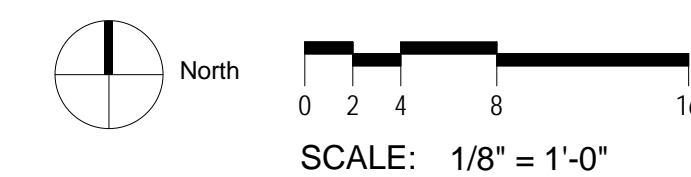
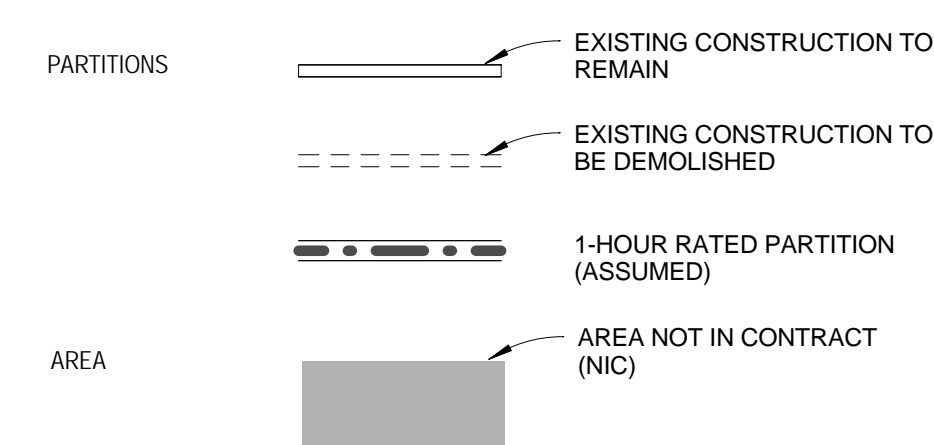
1 FLOOR PLAN - LEVEL 02 - DEMO

D102 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A REMOVE INTERIOR SECURITY SCREENS FROM WINDOWS WHERE APPLICABLE. CLEAN, REPAIR AND STORE FOR RE-INSTALLATION
- B REMOVE ALL DOORS SHOWN DASHED; INTERIOR DOOR FRAMES TO REMAIN
- C CAREFULLY REMOVE ALL WINDOWS SHOWN DASHED. PROTECT EXTERIOR STUCCO FROM DAMAGE. SEE WINDOW DETAILS FOR EXTENT OF REMOVAL OF WINDOW AND SURROUNDING BLOCKING, TYP.
- D ALL OPENINGS WHERE WINDOWS AND DOORS ARE REMOVED SHALL BE CLEANED AND PREPPED TO RECEIVE NEW BUILDING MATERIALS.
- E OPENINGS SHALL BE COVERED, SECURED AND WATERPROOFED AT ALL TIMES WHEN CONSTRUCTION CREWS ARE NOT PRESENT.
- F REMOVE AND STORE ALL SHUTTERS AND HARDWARE FOR REINSTALLATION, TYP.
- G STUCCO HEADERS AND SILLS TO REMAIN, TYP. CUT AND PATCH TO MATCH EXISTING AS REQUIRED FOR WINDOW REPLACEMENT.

FLOOR PLAN LEGEND



Revision Date Description

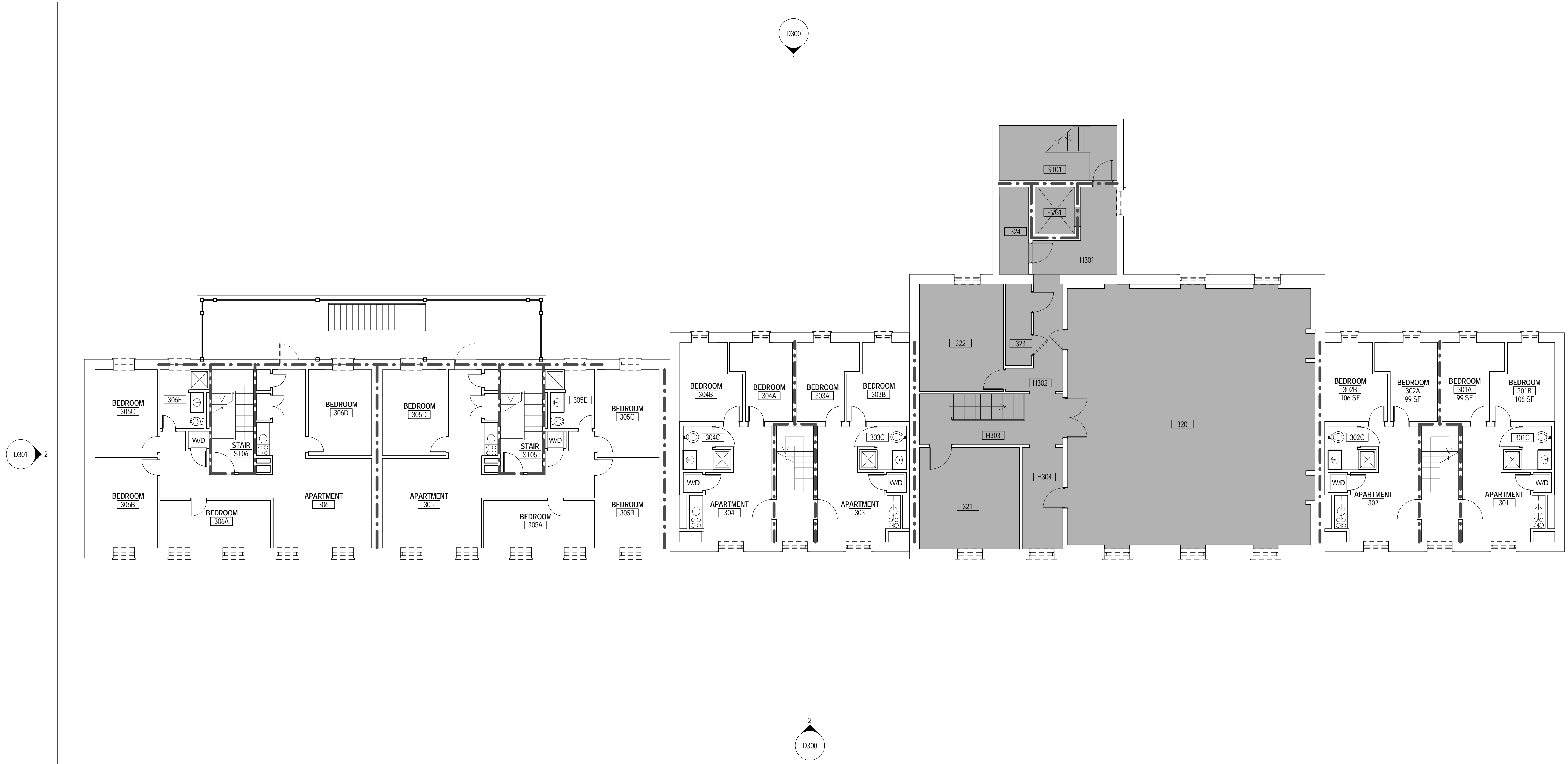
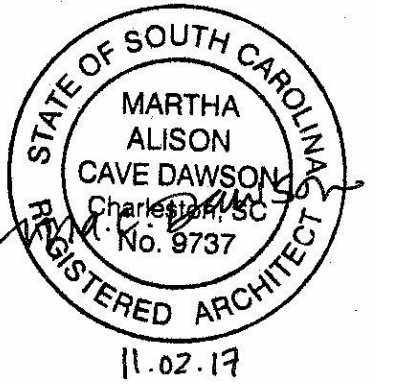
Revision Date	Description

University of South Carolina
**Harper/Elliott
Window
Replacement and
Access Controls
Project**

902 Sumter Street
Columbia, SC 29208

State Project Number: H27-Z324
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Scale: 1/8" = 1'-0"

**D102
DEMOLITION PLAN -
LEVEL 02**



1 FLOOR PLAN - LEVEL 03 - DEMO
SCALE: 1/8" = 1'-0"

Revision	Date	Description

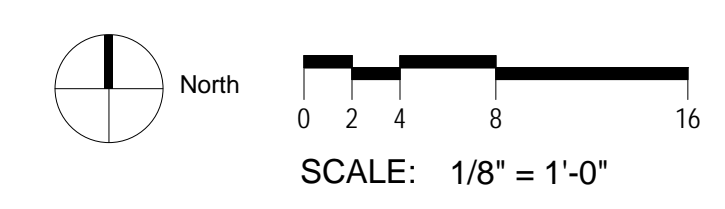
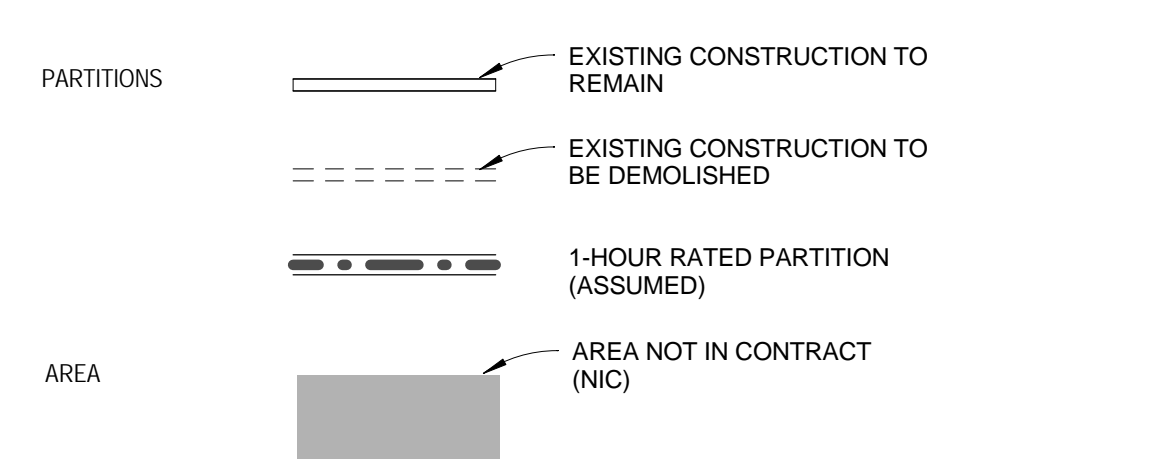
University of South Carolina
Harper/Elliott Window Replacement and Access Controls Project
902 Sumter Street
Columbia, SC 29208
State Project Number: H27-Z324
Project Number: 17403
Checked By: JMW
Drawn By: ACD
Date: 11/02/2017
Scale: 1/8" = 1'-0"

D103 DEMOLITION PLAN - LEVEL 03

GENERAL NOTES

- A REMOVE INTERIOR SECURITY SCREENS FROM WINDOWS WHERE APPLICABLE. CLEAN, REPAIR AND STORE FOR RE-INSTALLATION
- B REMOVE ALL DOORS SHOWN DASHED; INTERIOR DOOR FRAMES TO REMAIN
- C CAREFULLY REMOVE ALL WINDOWS SHOWN DASHED. PROTECT EXTERIOR STUCCO FROM DAMAGE. SEE WINDOW DETAILS FOR EXTENT OF REMOVAL OF WINDOW AND SURROUNDING BLOCKING, TYP.
- D ALL OPENINGS WHERE WINDOWS AND DOORS ARE REMOVED SHALL BE CLEANED AND PREPPED TO RECEIVE NEW BUILDING MATERIALS.
- E OPENINGS SHALL BE COVERED, SECURED AND WATERPROOFED AT ALL TIMES WHEN CONSTRUCTION CREWS ARE NOT PRESENT.
- F REMOVE AND STORE ALL SHUTTERS AND HARDWARE FOR REINSTALLATION, TYP.
- G STUCCO HEADERS AND SILLS TO REMAIN, TYP. CUT AND PATCH TO MATCH EXISTING AS REQUIRED FOR WINDOW REPLACEMENT.

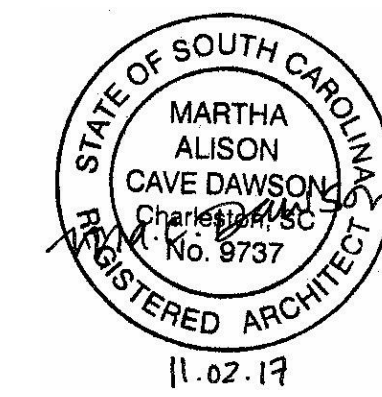
FLOOR PLAN LEGEND



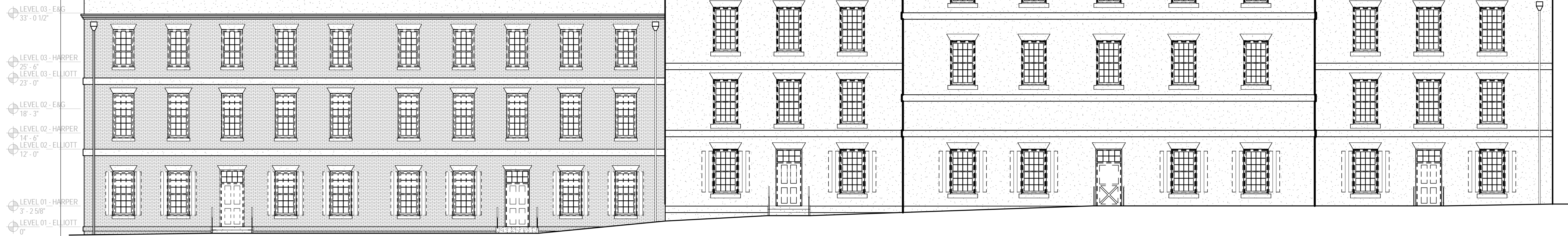


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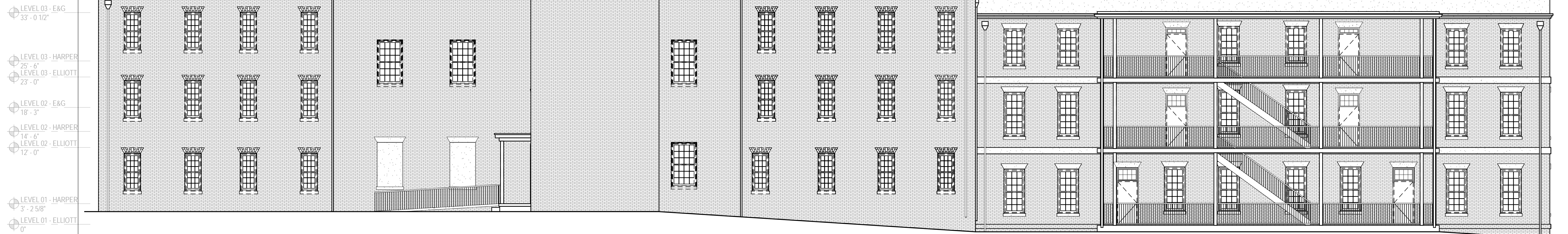


ELLIOTT COLLEGE HARPER COLLEGE



2 SOUTH ELEVATION - DEMO
D300 SCALE: 1/8" = 1'-0"

ELLIOTT COLLEGE HARPER COLLEGE



1 NORTH ELEVATION - DEMO
D300 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A REMOVE INTERIOR SECURITY SCREENS FROM WINDOWS WHERE APPLICABLE. CLEAN, REPAIR AND STORE FOR RE-INSTALLATION
- B REMOVE ALL DOORS SHOWN DASHED; INTERIOR DOOR FRAMES TO REMAIN
- C CAREFULLY REMOVE ALL WINDOWS SHOWN DASHED. PROTECT EXTERIOR STUCCO FROM DAMAGE. SEE WINDOW DETAILS FOR EXTENT OF REMOVAL OF WINDOW AND SURROUNDING BLOCKING, TYP.
- D ALL OPENINGS WHERE WINDOWS AND DOORS ARE REMOVED SHALL BE CLEANED AND PREPPED TO RECEIVE NEW BUILDING MATERIALS.
- E OPENINGS SHALL BE COVERED, SECURED AND WATERPROOFED AT ALL TIMES WHEN CONSTRUCTION CREWS ARE NOT PRESENT.
- F REMOVE AND STORE ALL SHUTTERS AND HARDWARE FOR REINSTALLION, TYP.
- G STUCCO HEADERS AND SILLS TO REMAIN, TYP. CUT AND PATCH TO MATCH EXISTING AS REQUIRED FOR WINDOW REPLACEMENT.

NOTE 1: ALL EXTERIOR WINDOWS, DOORS AND FRAMES TO BE REMOVED (TYP)
NOTE 2: INFILLED WINDOWS TO REMAIN (TYP)

Revision	Date	Description

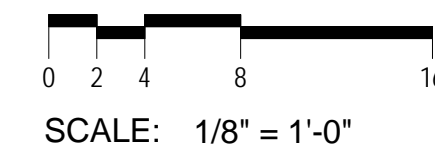
University of South Carolina

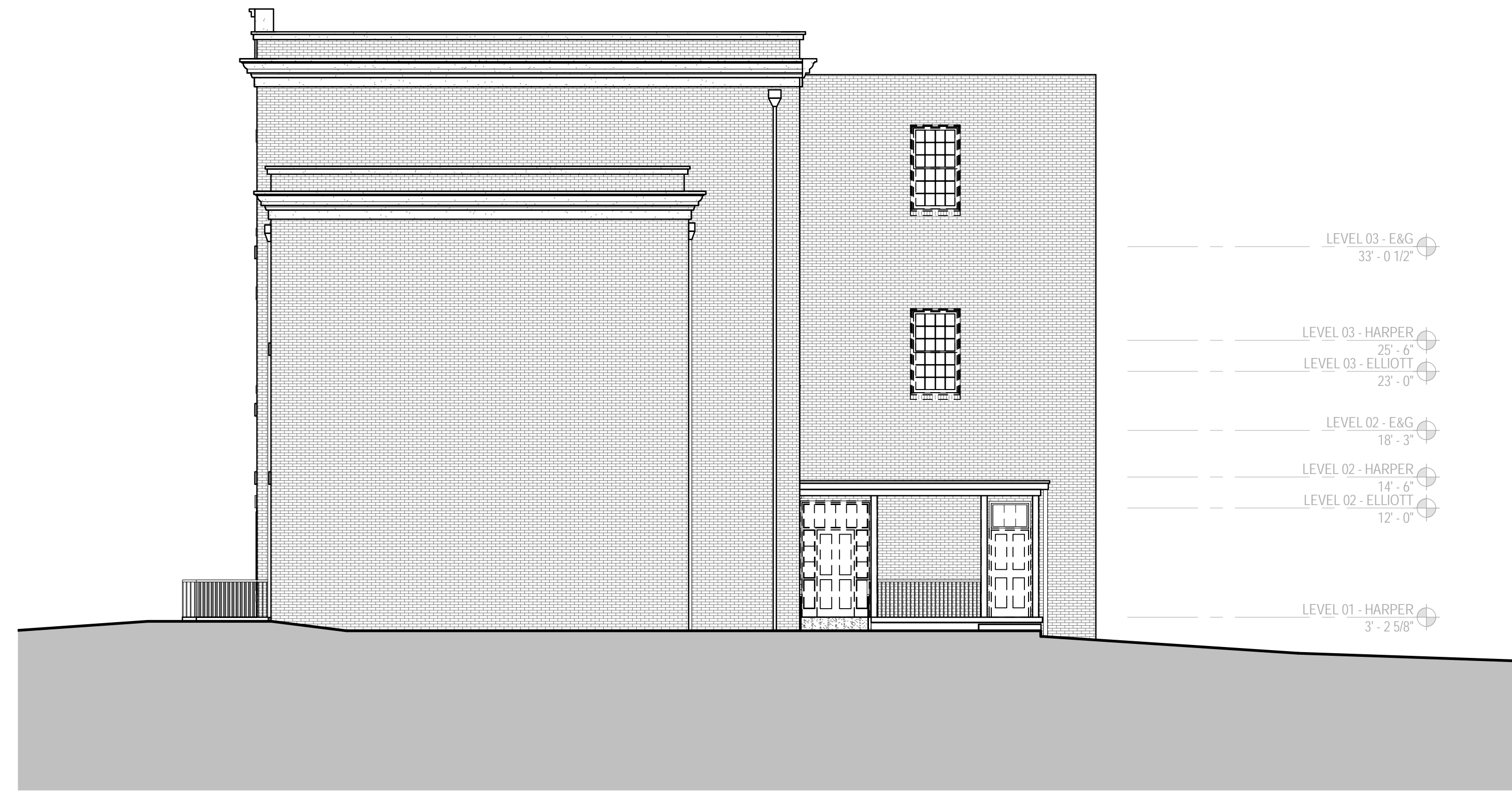
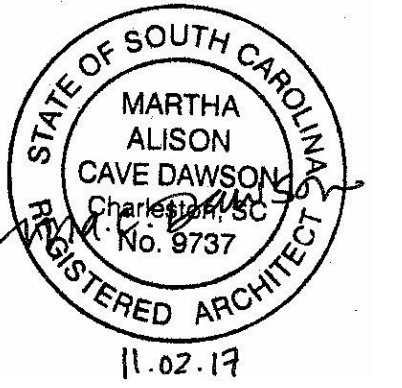
Harper/Elliott Window Replacement and Access Controls Project

902 Sumter Street
Columbia, SC 29208

State Project Number:	H27-Z324
Project Number:	17403
Checked By:	JMW
Drawn By:	ACD
Date:	11/02/2017
Scale:	1/8" = 1'-0"

D300 DEMOLITION ELEVATIONS





1 EAST ELEVATION - DEMO
D301 SCALE: 1/8" = 1'-0"

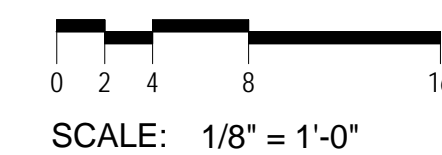


2 WEST ELEVATION - DEMO
D301 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A REMOVE INTERIOR SECURITY SCREENS FROM WINDOWS WHERE APPLICABLE. CLEAN, REPAIR AND STORE FOR RE-INSTALLATION
- B REMOVE ALL DOORS SHOWN DASHED; INTERIOR DOOR FRAMES TO REMAIN
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NOTE 1: ALL EXTERIOR WINDOWS, DOORS AND FRAMES TO BE REMOVED (TYP)
NOTE 2: INFILLED WINDOWS TO REMAIN (TYP)



△ Revision Date Description

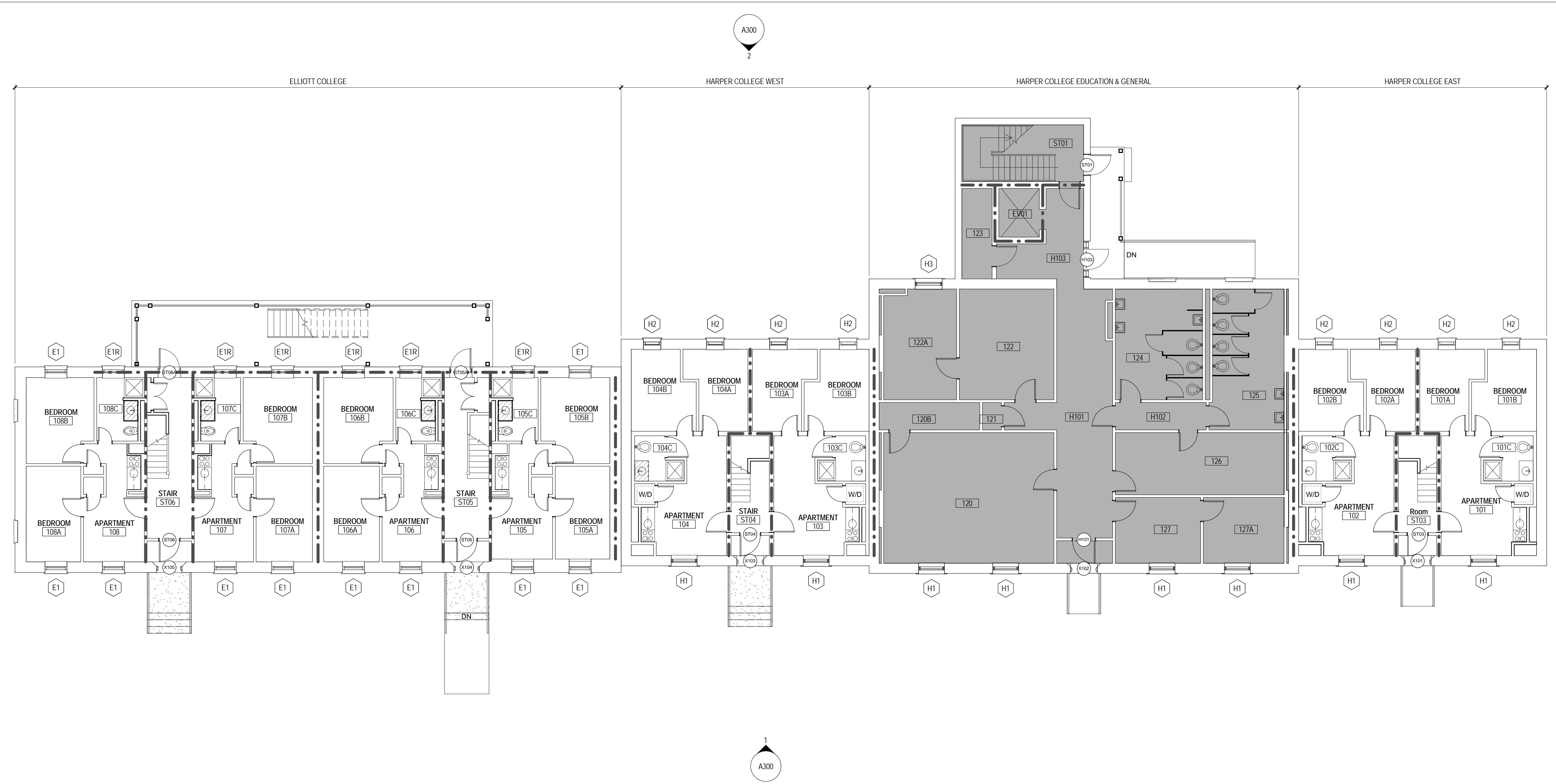
University of South Carolina

**Harper/Elliott
Window
Replacement and
Access Controls
Project**

902 Sumter Street
Columbia, SC 29208

State Project Number: H27-Z324
Project Number: 17403
Checked By: JMW
Drawn By: ACD
Date: 11/02/2017
Scale: 1/8" = 1'-0"

**D301
DEMOLITION
ELEVATIONS**



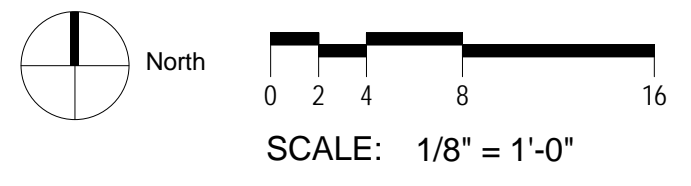
1 FLOOR PLAN - LEVEL 01
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

- PARTITIONS**
 - EXISTING CONSTRUCTION TO REMAIN
 - EXISTING CONSTRUCTION TO BE DEMOLISHED
 - 1-HOUR RATED PARTITION (ASSUMED)
- AREA**
 - AREA NOT IN CONTRACT (NIC)
- SYMBOLS**
 - FIRE EXTINGUISHER CABINET
- WINDOW TAG**
 - WINDOW TYPE
- DOOR TAGS**
 - DOOR NUMBER

GENERAL NOTES

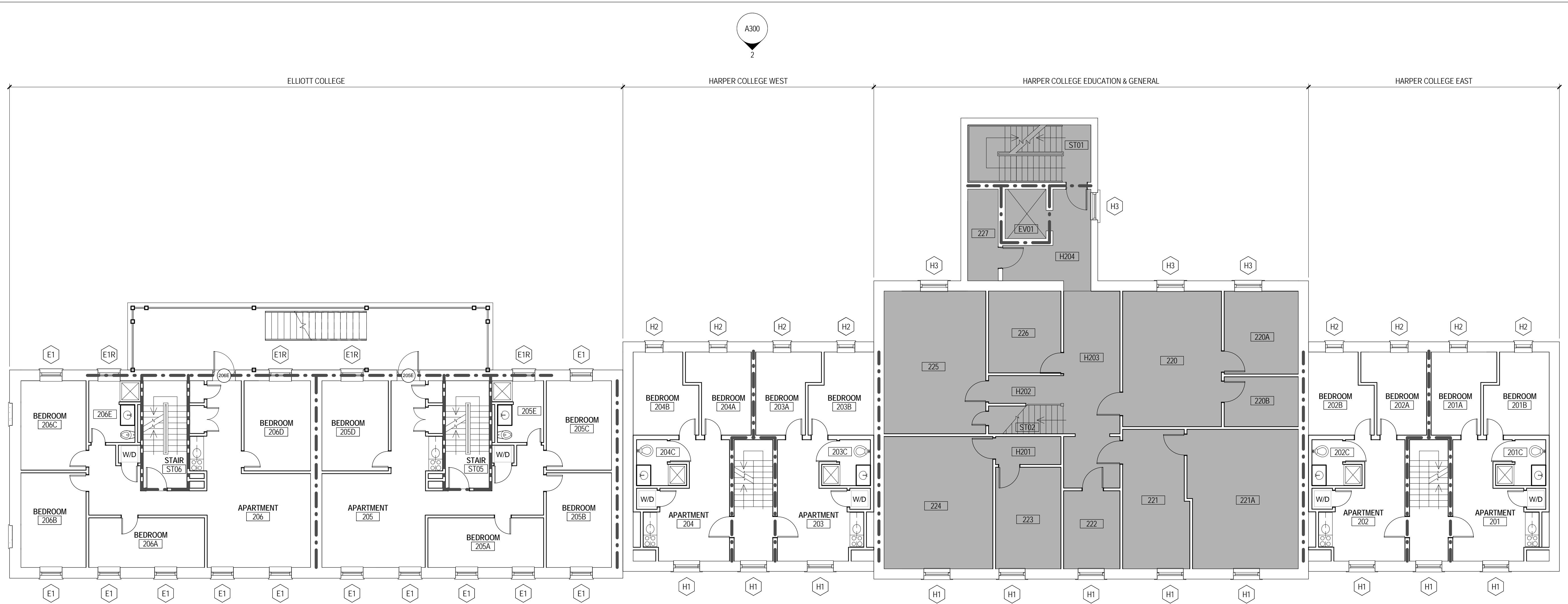
- A** REFER TO SHEET G000 FOR ADDITIONAL NOTES, SYMBOLS AND SCHEDULES.
- B** ALL SHUTTERS TO BE CLEANED, PREPPED AND REPAINTED TO MATCH EXISTING PRIOR TO REINSTALLATION. SEE ELEVATIONS FOR SHUTTER LOCATIONS.
- C** SECURITY SCREENS TO BE RE-INSTALLED AT INTERIOR SIDE OF WINDOW WHERE PREVIOUSLY REMOVED. INSTALL SECURITY SCREEN IN THE SAME OPENING WHERE PREVIOUSLY REMOVED. SECURITY SCREENS ARE LOCATED AT ALL FIRST FLOOR WINDOWS IN RESIDENCE AREA AND AT BALCONY WINDOWS.
- D** NEW DOORS SHALL BE INSTALLED IN EXISTING DOOR FRAMES AT INTERIOR LOCATIONS.
- E** CUT AND PATCH FINISHES AROUND WINDOWS TO MATCH EXISTING AS REQUIRED.
- F** MULTIPLE STUCCO FINISHES MAY BE PRESENT
- G** SEE SHEETS A6XX FOR DOOR / WINDOW SCHEDULES, TYPES AND DETAILS



Revision	Date	Description

University of South Carolina
Harper/Elliott Window Replacement and Access Controls Project
902 Sumter Street
Columbia, SC 29208
State Project Number: H27-Z324
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Date: 11/02/2017
Scale: 1/8" = 1'-0"

A101 FLOOR PLAN



1 LEVEL 02 - ELLIOTT
A102 SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

- PARTITIONS**
 - EXISTING CONSTRUCTION TO REMAIN
 - EXISTING CONSTRUCTION TO BE DEMOLISHED
 - 1-HOUR RATED PARTITION (ASSUMED)
- AREA**
 - AREA NOT IN CONTRACT (NIC)
- SYMBOLS**
 - FIRE EXTINGUISHER CABINET
- WINDOW TAG**
 - WINDOW TYPE
- DOOR TAGS**
 - DOOR NUMBER

GENERAL NOTES

- A REFER TO SHEET G000 FOR ADDITIONAL NOTES, SYMBOLS AND SCHEDULES.
- B ALL SHUTTERS TO BE CLEANED, PREPPED AND REPAINTED TO MATCH EXISTING PRIOR TO REINSTALLATION. SEE ELEVATIONS FOR SHUTTER LOCATIONS.
- C SECURITY SCREENS TO BE RE-INSTALLED AT INTERIOR SIDE OF WINDOW WHERE PREVIOUSLY REMOVED. INSTALL SECURITY SCREEN IN THE SAME OPENING WHERE PREVIOUSLY REMOVED. SECURITY SCREENS ARE LOCATED AT ALL FIRST FLOOR WINDOWS IN RESIDENCE AREA AND AT BALCONY WINDOWS.
- D NEW DOORS SHALL BE INSTALLED IN EXISTING DOOR FRAMES AT INTERIOR LOCATIONS.
- E CUT AND PATCH FINISHES AROUND WINDOWS TO MATCH EXISTING AS REQUIRED.
- F MULTIPLE STUCCO FINISHES MAY BE PRESENT
- G SEE SHEETS A6XX FOR DOOR / WINDOW SCHEDULES, TYPES AND DETAILS

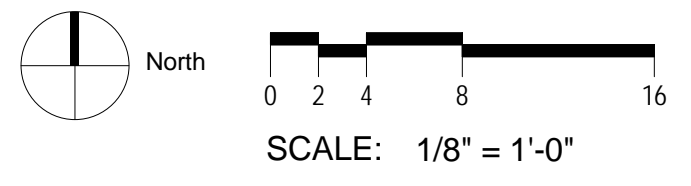
Revision	Date	Description

University of South Carolina
**Harper/Elliott
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902 Sumter Street
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State Project Number: H27-Z324
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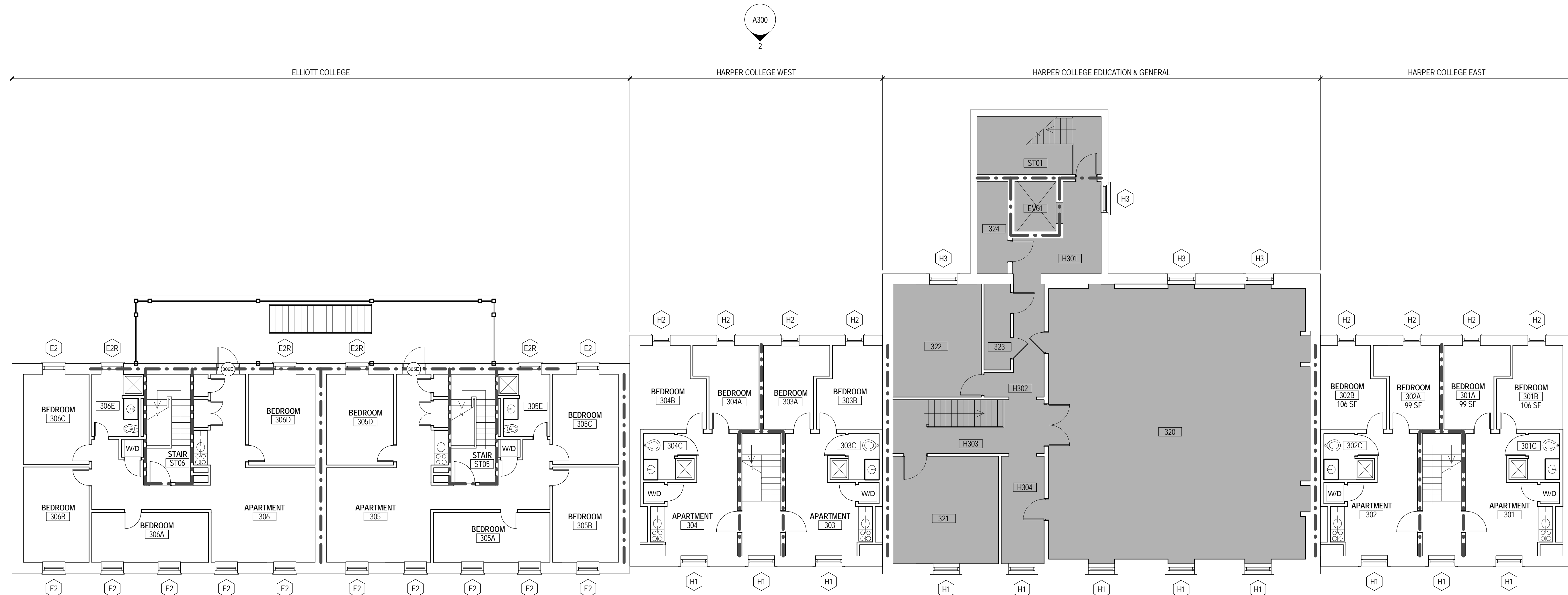
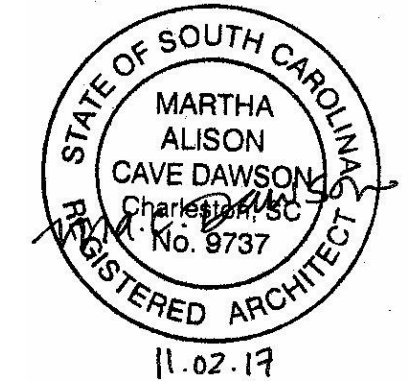
A102
SECOND FLOOR PLAN





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A301 2

A300 2

A300 1

A301 1

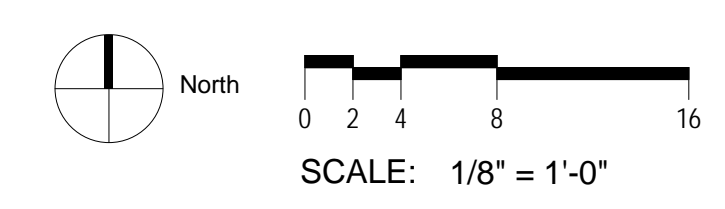
1 LEVEL 03 - ELLIOTT
A103 SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

- PARTITIONS**
- EXISTING CONSTRUCTION TO REMAIN
- - - - - EXISTING CONSTRUCTION TO BE DEMOLISHED
- - - - - 1-HOUR RATED PARTITION (ASSUMED)
- AREA**
- AREA NOT IN CONTRACT (NIC)
- SYMBOLS**
- FEC FIRE EXTINGUISHER CABINET
- WINDOW TAG**
- XXX WINDOW TYPE
- DOOR TAGS**
- xxx DOOR NUMBER

GENERAL NOTES

- A REFER TO SHEET G000 FOR ADDITIONAL NOTES, SYMBOLS AND SCHEDULES.
- B ALL SHUTTERS TO BE CLEANED, PREPPED AND REPAINTED TO MATCH EXISTING PRIOR TO REINSTALLATION. SEE ELEVATIONS FOR SHUTTER LOCATIONS.
- C SECURITY SCREENS TO BE RE-INSTALLED AT INTERIOR SIDE OF WINDOW WHERE PREVIOUSLY REMOVED. INSTALL SECURITY SCREEN IN THE SAME OPENING WHERE PREVIOUSLY REMOVED. SECURITY SCREENS ARE LOCATED AT ALL FIRST FLOOR WINDOWS IN RESIDENCE AREA AND AT BALCONY WINDOWS.
- D NEW DOORS SHALL BE INSTALLED IN EXISTING DOOR FRAMES AT INTERIOR LOCATIONS.
- E CUT AND PATCH FINISHES AROUND WINDOWS TO MATCH EXISTING AS REQUIRED.
- F MULTIPLE STUCCO FINISHES MAY BE PRESENT
- G SEE SHEETS A6XX FOR DOOR / WINDOW SCHEDULES, TYPES AND DETAILS



Revision	Date	Description

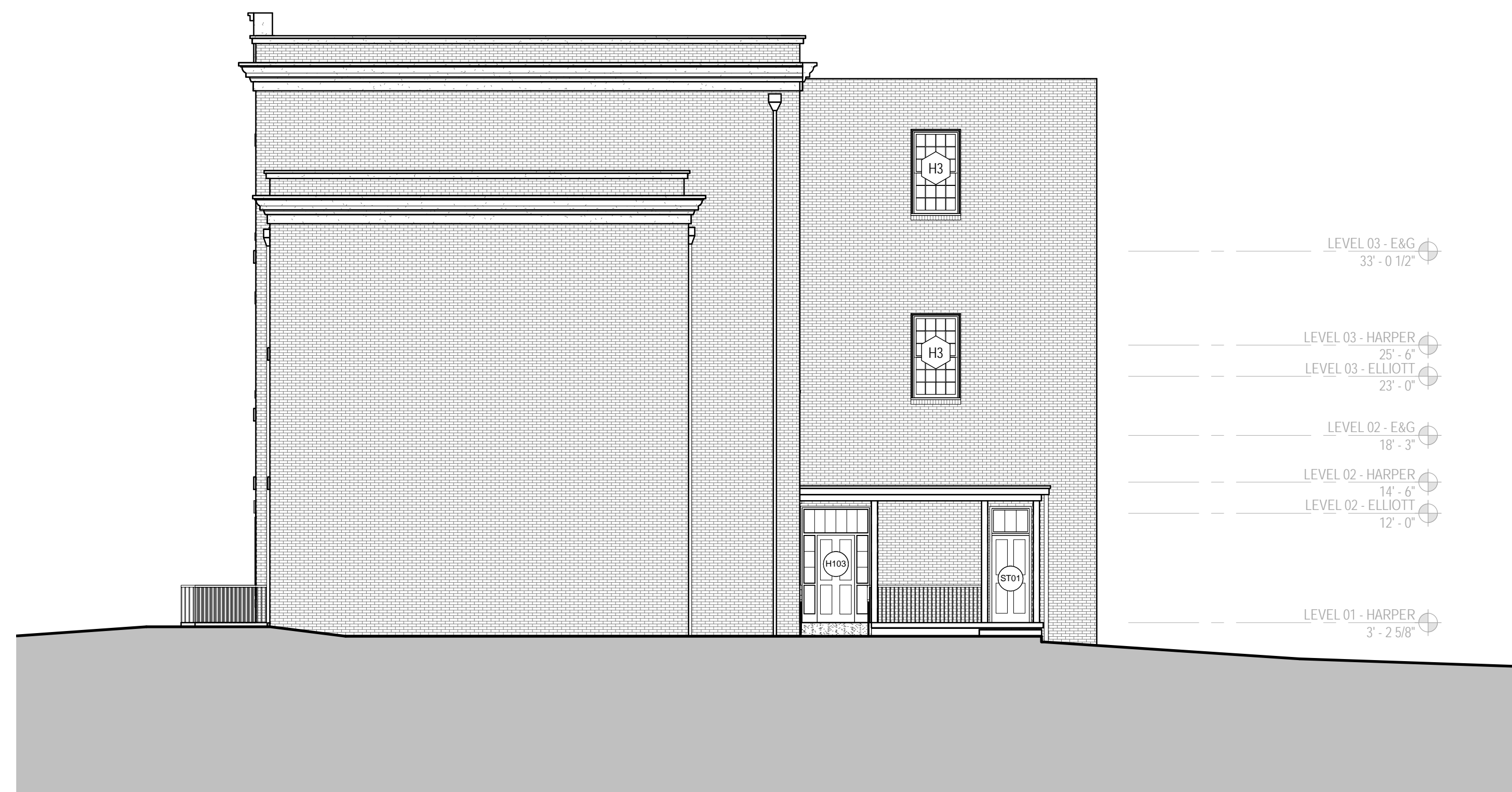
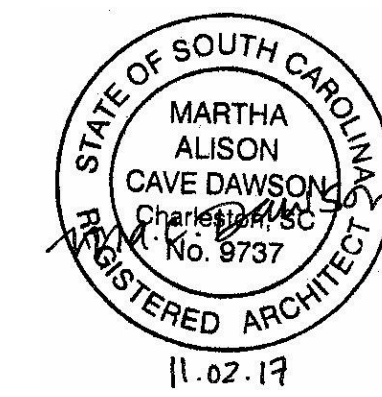
University of South Carolina
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 Checked By: JMW
 Drawn By: ACD
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 Scale: 1/8" = 1'-0"

**A103
THIRD FLOOR PLAN**



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1 EAST ELEVATION
A301 SCALE: 1/8" = 1'-0"



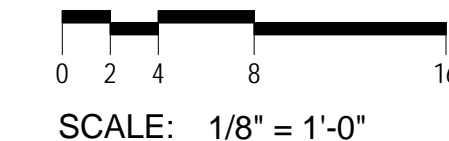
2 WEST ELEVATION
A301 SCALE: 1/8" = 1'-0"

GENERAL ELEVATION NOTES

- A REFER TO SHEET G000 FOR ADDITIONAL NOTES, SYMBOLS AND SCHEDULES.
- B ALL SHUTTERS TO BE CLEANED, PREPPED AND REPAINTED TO MATCH EXISTING PRIOR TO REINSTALLATION.
- C REPLACE SHUTTER HARDWARE TO MATCH EXISTING PROFILES
- D PATCH STUCCO DAMAGED BY CONSTRUCTION ACTIVITIES WITH COMPATIBLE MIXES. PERFORM MATERIAL TESTS TO DETERMINE MIX RATIOS.
- E MULTIPLE STUCCO FINISHES MAY BE PRESENT
- F SEE WINDOW/DOOR SCHEDULES, TYPES AND DETAIL ON A6XX SHEETS

Revision	Date	Description

University of South Carolina
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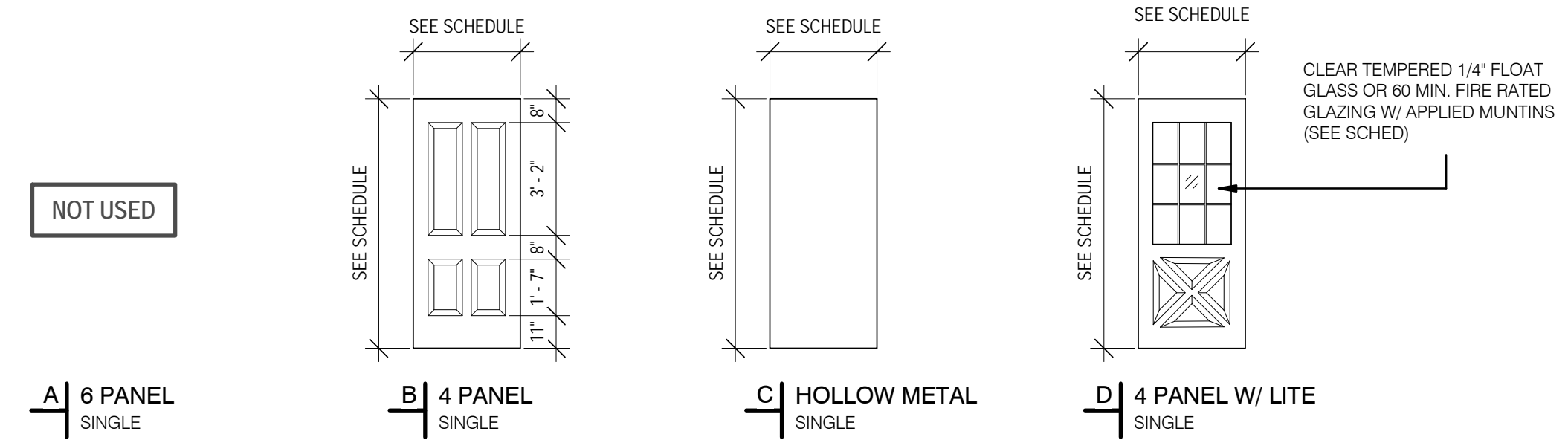


A301 BUILDING ELEVATIONS

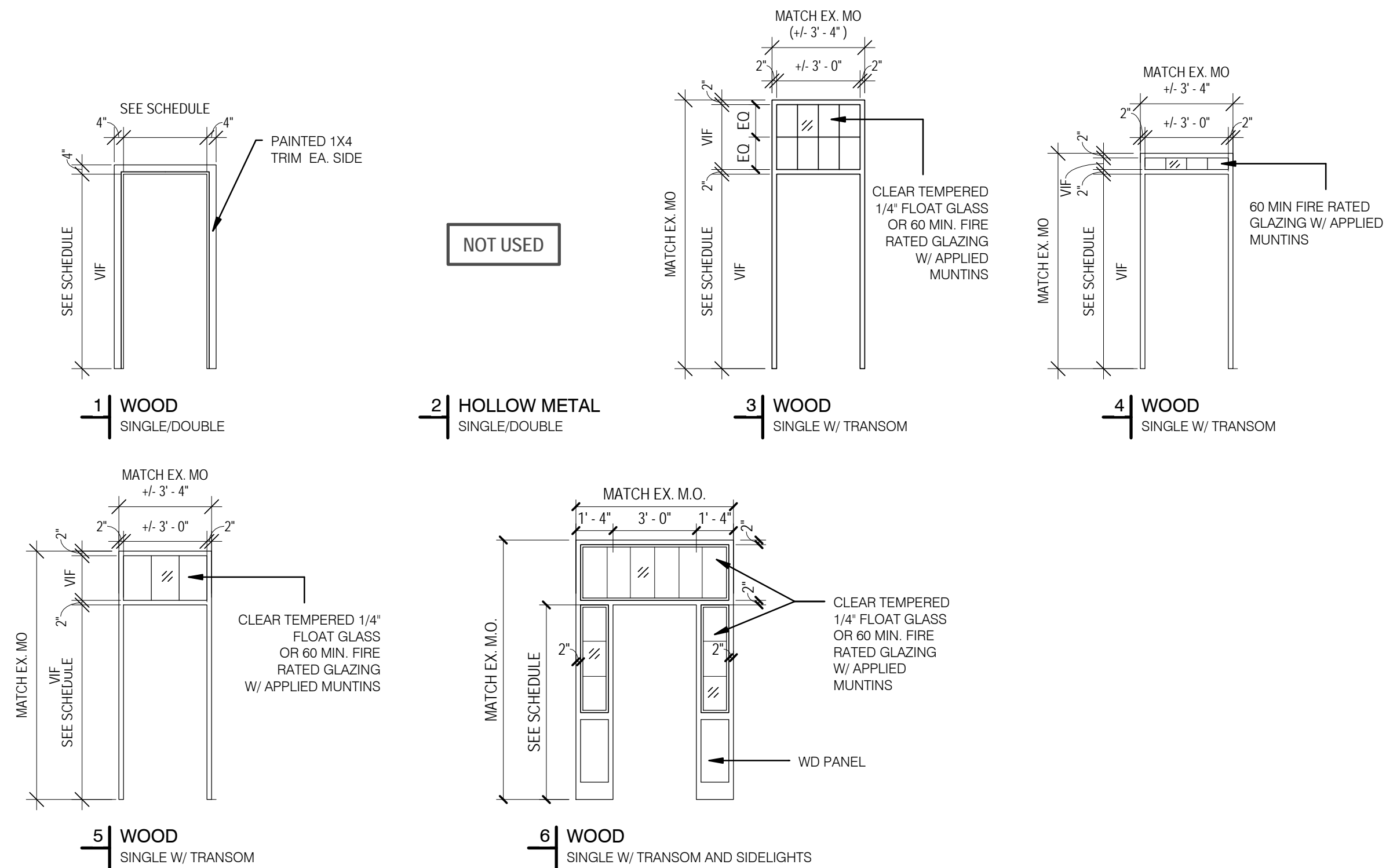
SCHEDULE - DOOR AND FRAME													
Mark	Type	Material	Finish	DOOR			FRAME		DETAILS			Fire Rating	Comments
				Width	Height	Thickness	Type	Head	Jamb	Sill			
205E	C			3' - 0"	6' - 8"	1 3/4"	3	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
206E	C			3' - 0"	6' - 8"	1 3/4"	3	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
305E	C			3' - 0"	6' - 8"	1 3/4"	4	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
306E	C			3' - 0"	6' - 8"	1 3/4"	4	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
H101	D			3' - 4"	6' - 8"	1 3/4"	1	H3	J3	S1	--	MATCH MASONRY OPENING	
H103	B			5' - 5"	9' - 4"	1 3/4"	6	H1	SIM J2	S1	--	TRANSOM AND SIDELIGHT; MATCH MASONRY OPENING	
ST01	B			3' - 0"	7' - 0"	1 3/4"	5	H2	J2	S1	--	MATCH MASONRY OPENING	
ST05A	C	↓	↓	3' - 0"	6' - 8"	1 3/4"	3	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
ST06A	C			3' - 0"	6' - 8"	1 3/4"	3	H2	J2	S1	60 MIN	MATCH MASONRY OPENING	
X101	--	--	--	3' - 8"	8' - 7 1/2"	0"	3	H1	J1	--	--	CASED OPENING WITH TRANSOM; MATCH MASONRY OPENING	
X102	--	--	--	3' - 8"	8' - 7 1/2"	0"	3	H1	J1	--	--	MATCH MASONRY OPENING	
X103	--	--	--	3' - 8"	8' - 7 1/2"	0"	3	H1	J1	--	--	CASED OPENING WITH TRANSOM; MATCH MASONRY OPENING	
X104	--	--	--	3' - 5"	8' - 7 1/2"	0"	3	H1	J1	--	--	CASED OPENING WITH TRANSOM; MATCH MASONRY OPENING	
X105	--	--	--	3' - 5"	8' - 7 1/2"	0"	3	H1	J1	--	--	CASED OPENING WITH TRANSOM; MATCH MASONRY OPENING	

NOTE 1 : CONTRACTOR TO VERIFY ALL DIMENSIONS
 NOTE 2: SEE DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE SETS

DOOR TYPES:

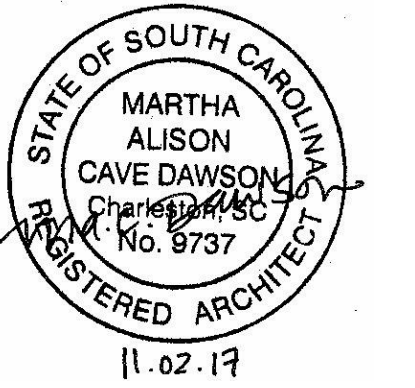


FRAME TYPES:



147 Wappoo Creek Drive
 Suite 400
 Charleston, SC 29412

P 843.762.2222



Revision Date Description

University of South Carolina
**Harper/Elliott
 Window
 Replacement and
 Access Controls
 Project**

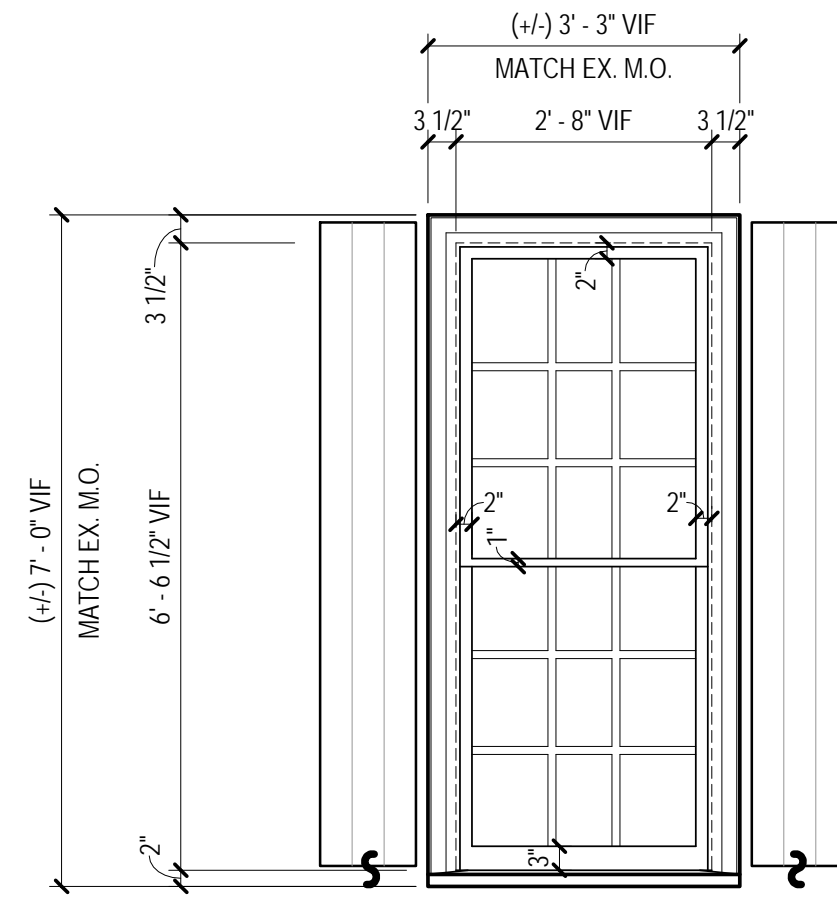
902 Sumter Street
 Columbia, SC 29208

State Project Number: H27-Z324
 Project Number: 17403
 Checked By: JMW
 Drawn By: ACD
 Date: 11/02/2017
 Scale:

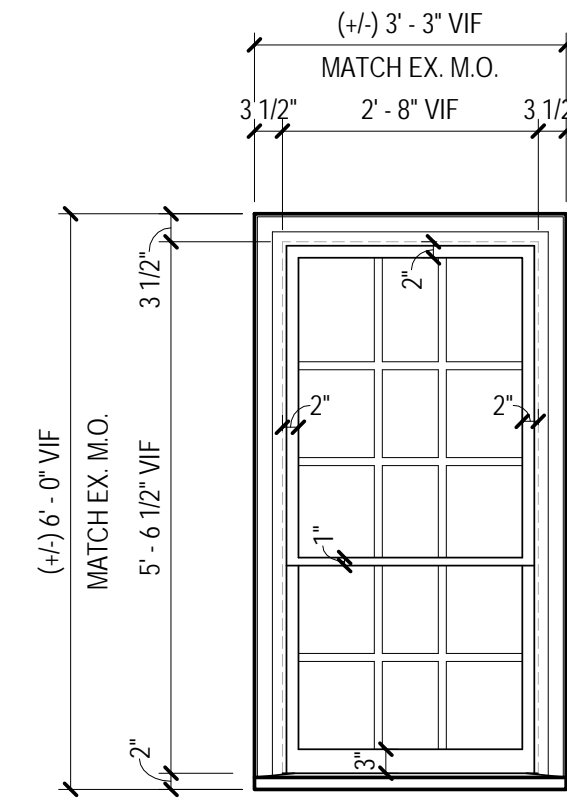
**A600
 DOOR SCHEDULE
 AND TYPES**

SCHEDULE - WINDOW						
Type Mark	Width MO	Height MO	Window Head	Window Jamb	Window Sill	Comments
E1	3' - 3"	7' - 0"	1/A602	2/A602	1/A602	MATCH MASONRY OPENING
E1R	3' - 3"	7' - 0"	SIM 1/A602	SIM 2/A602	SIM 1/A602	MATCH MASONRY OPENING
E2	3' - 3"	6' - 0"	1/A602	2/A602	1/A602	MATCH MASONRY OPENING
E2R	3' - 3"	6' - 0"	SIM 1/A602	SIM 2/A602	SIM 1/A602	MATCH MASONRY OPENING
H1	3' - 10"	7' - 0"	1/A602	2/A602	1/A602	MATCH MASONRY OPENING
H2	2' - 7"	7' - 0"	1/A602	2/A602	1/A602	MATCH MASONRY OPENING
H3	4' - 0"	7' - 0"	1/A602	2/A602	1/A602	MATCH MASONRY OPENING

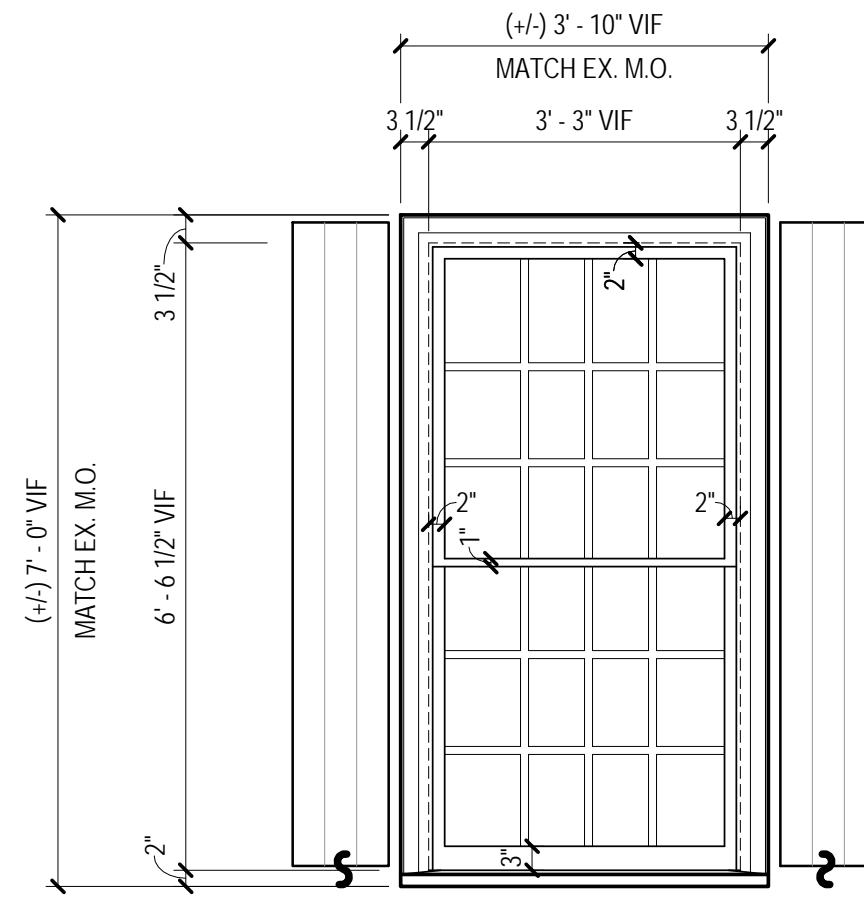
NOTE 1: CONTRACTOR TO VERIFY ALL DIMENSIONS
NOTE 2: PROVIDE HORIZONTAL WINDOW BLINDS AT ALL WINDOWS



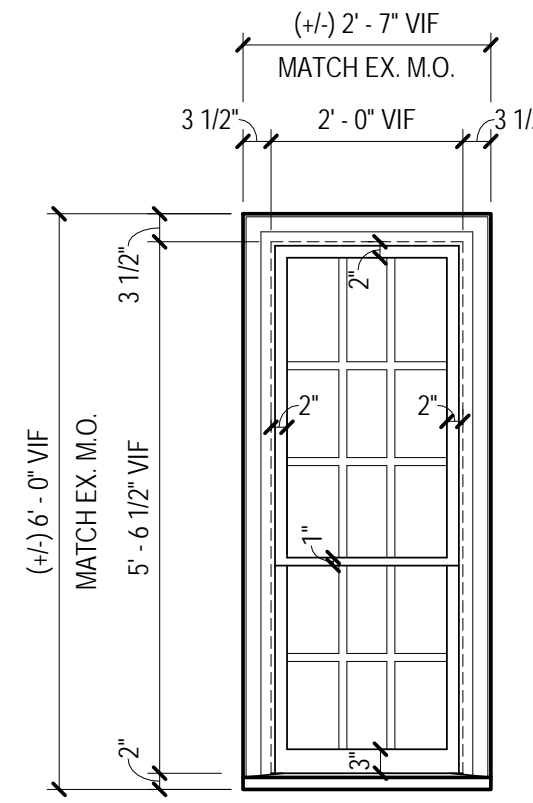
E1 / E1R
Elliott College
Front/Rear
(E1-R IS 45 MIN RATED)
(SHUTTERS AT FIRST FLOOR FRONT ONLY)



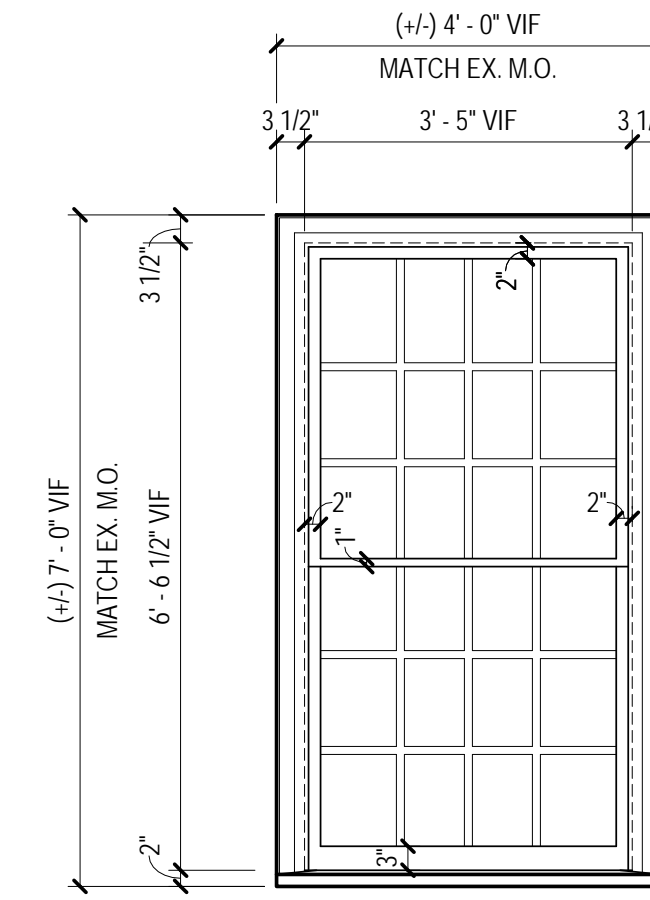
E2 / E2R
Elliott College
Front/Rear - Third Floor
(E-2R IS 45 MIN RATED)



H1
Harper College
Front
(SHUTTERS AT FIRST FLOOR ONLY)



H2
Harper College
Rear



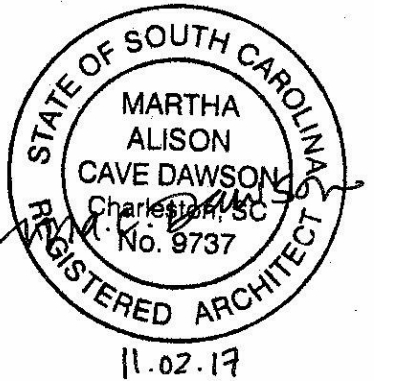
H3
Harper College
Rear E&G

WINDOW TYPE LEGEND



147 Wappoo Creek Drive
Suite 400
Charleston, SC 29412

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University of South Carolina

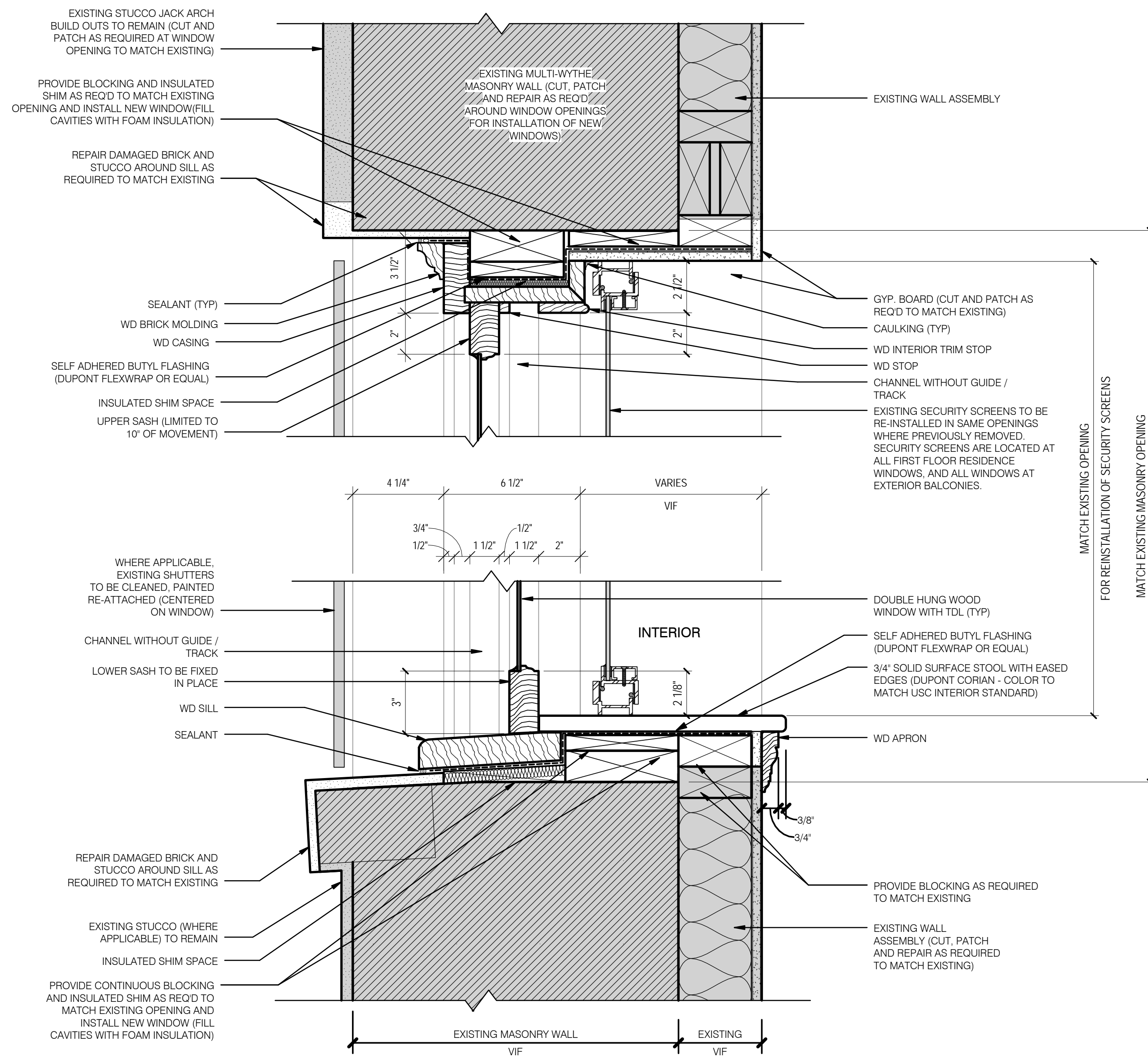
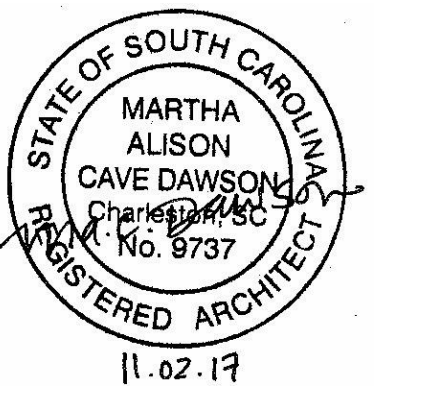
**Harper/Elliott
Window
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902 Sumter Street
Columbia, SC 29208

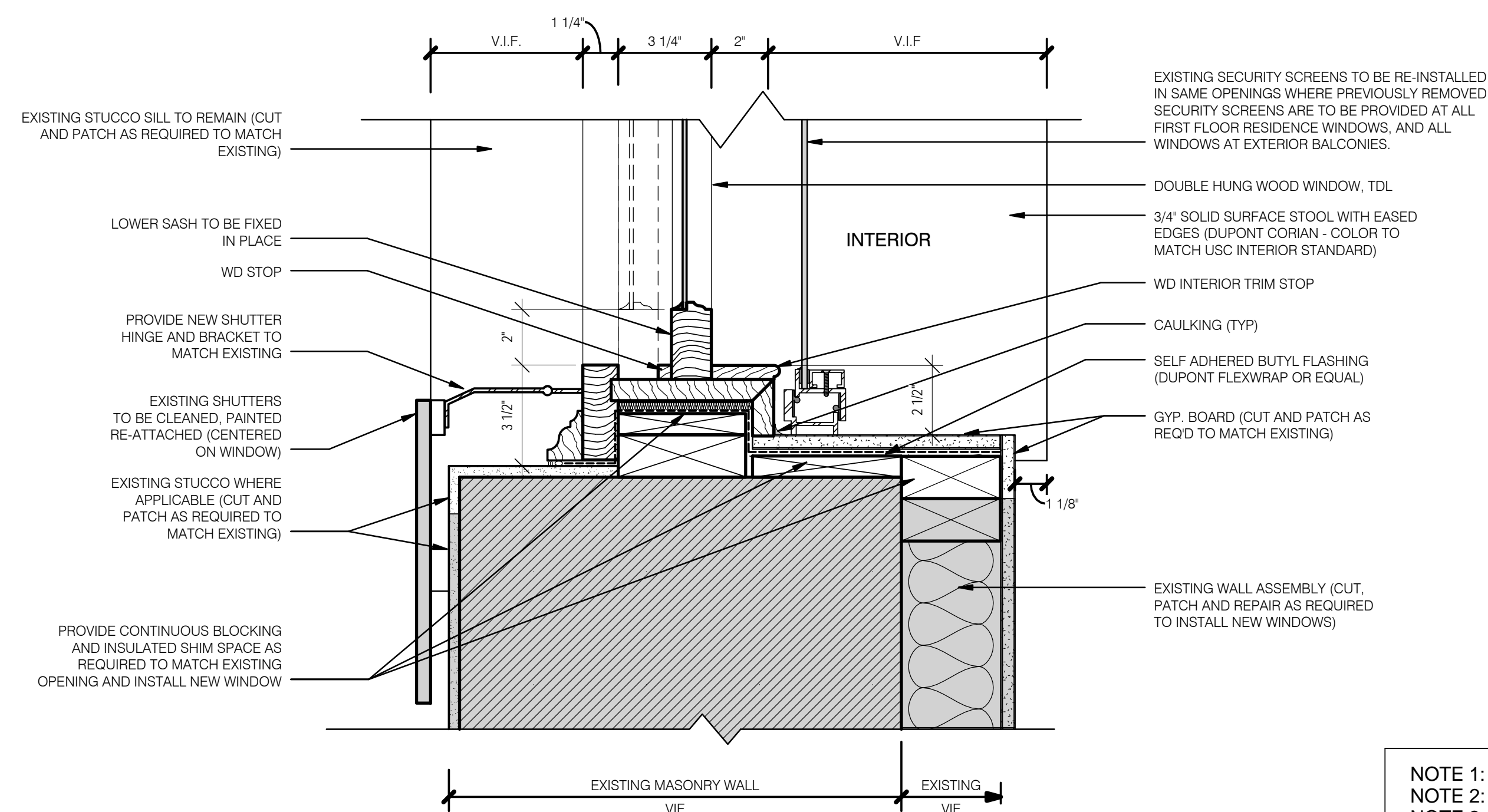
State Project Number: H27-Z324
Project Number: 17403
Checked By: JMW
Drawn By: ACD
Date: 11/02/2017
Scale: 1/2" = 1'-0"

**A601
WINDOW SCHEDULE
AND TYPES**

SCALE: 1/2" = 1'-0"



1 TYPICAL WOOD WINDOW - HEAD AND SILL DETAIL
SCALE: 3" = 1'-0"



2 TYPICAL WOOD WINDOW - JAMB DETAIL
SCALE: 3" = 1'-0"

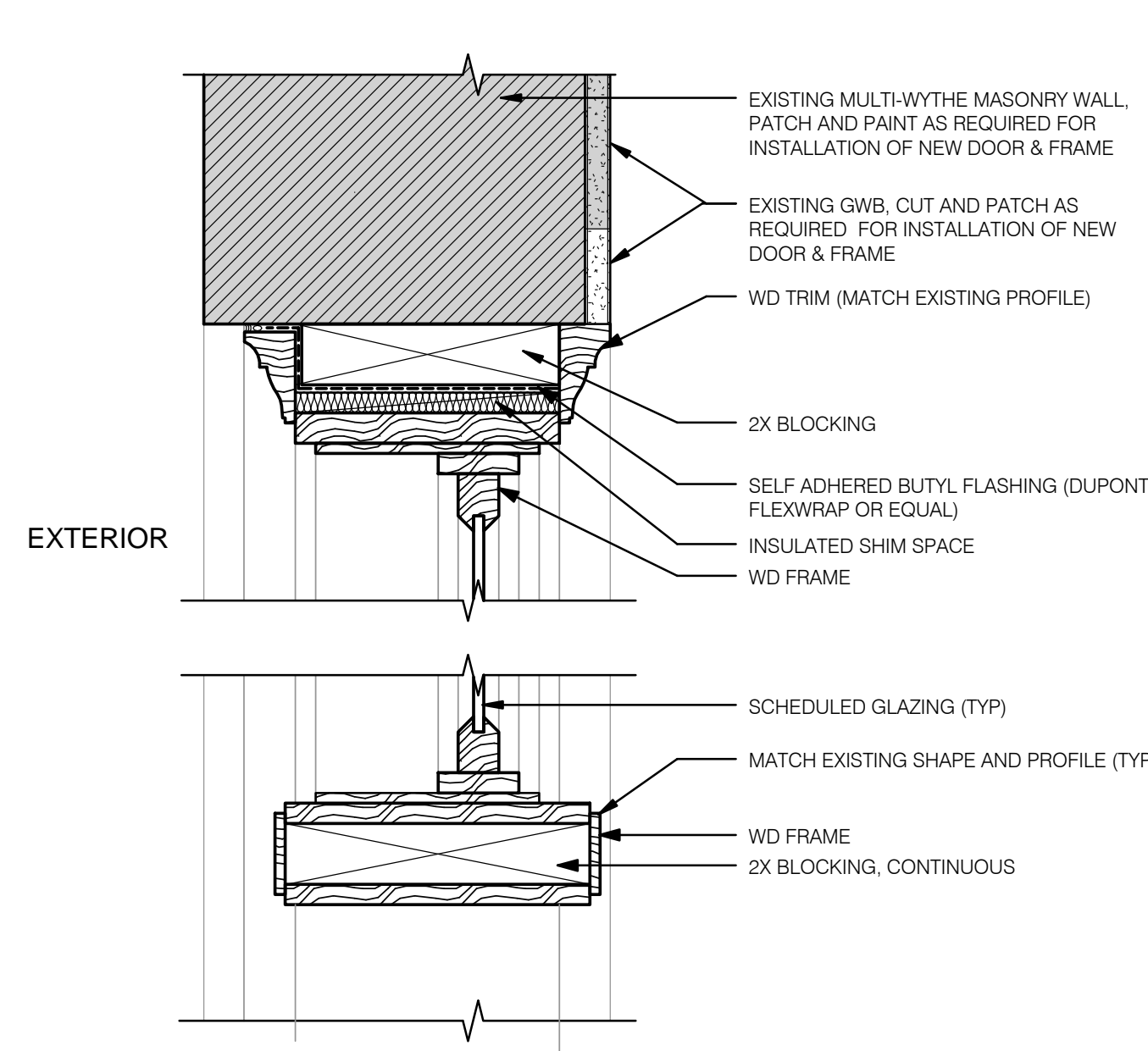
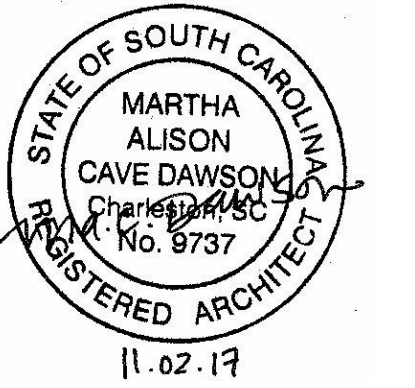
NOTE 1: GC TO VERIFY ALL DIMENSIONS
NOTE 2: SECURITY SCREENS ARE LOCATED AT ALL FIRST FLOOR RESIDENCE WINDOWS, AND ALL WINDOWS AT BALCONIES
NOTE 3: ALL BLOCKING TO BE CONTINUOUS AND PRESSURE TREATED. ANY/ALL FASTNERS THAT PENETRATE PRESSURE TREATED WOOD TO BE COMPATIBLE.
NOTE 4: ALL SHIMS TO BE SYNTHETIC
NOTE 5: SEE ELEVATIONS FOR LOCATIONS OF EXISTING SHUTTERS

SCALE: 3" = 1'-0"

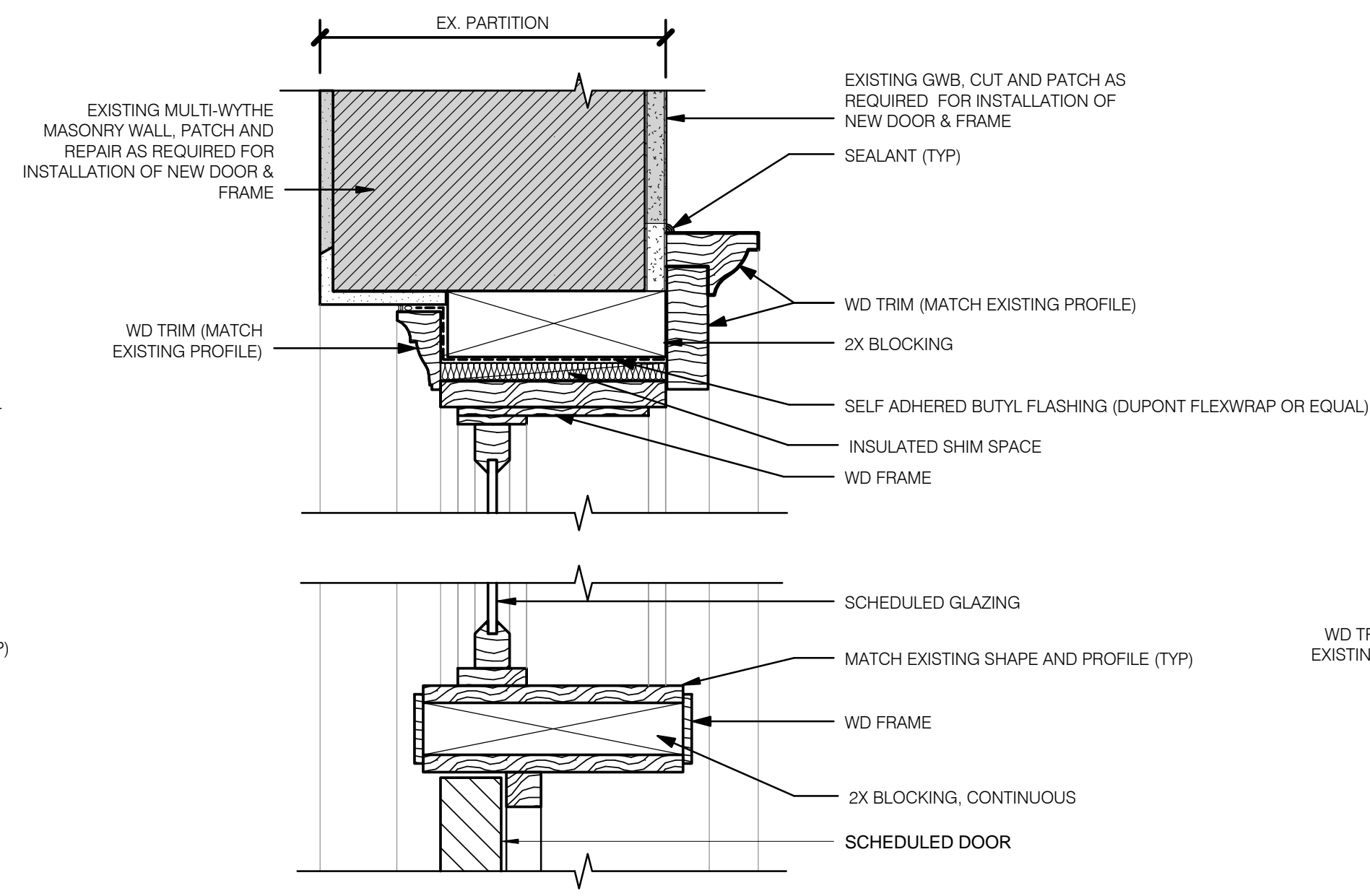
Revision Date	Description

University of South Carolina
Harper/Elliott Window Replacement and Access Controls Project
902 Sumter Street
Columbia, SC 29208
State Project Number: H27-Z324
Project Number: 17403
Checked By: JMW
Drawn By: ACD
Date: 11/02/2017
Scale: 3" = 1'-0"

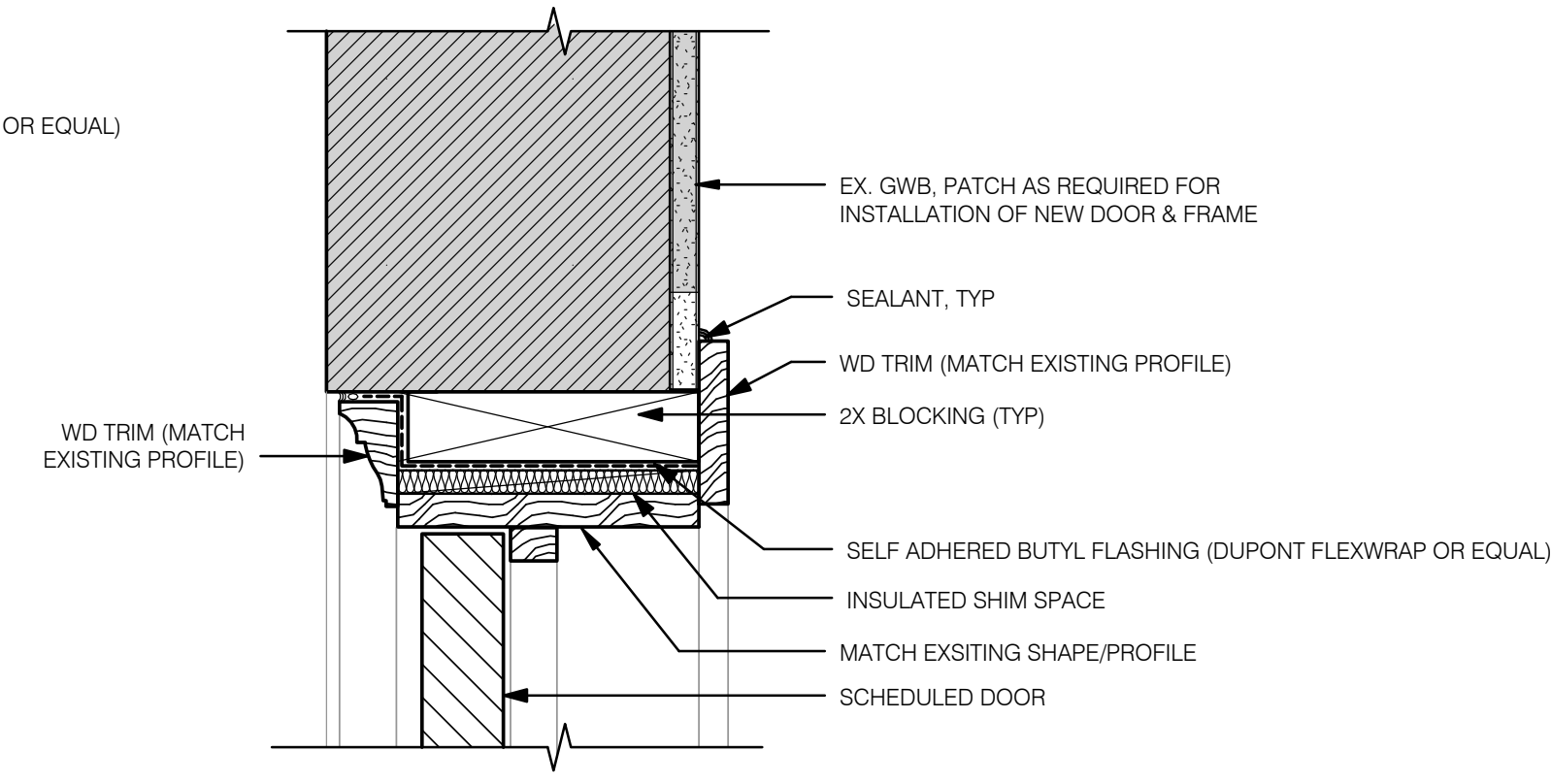
A602 WINDOW DETAILS



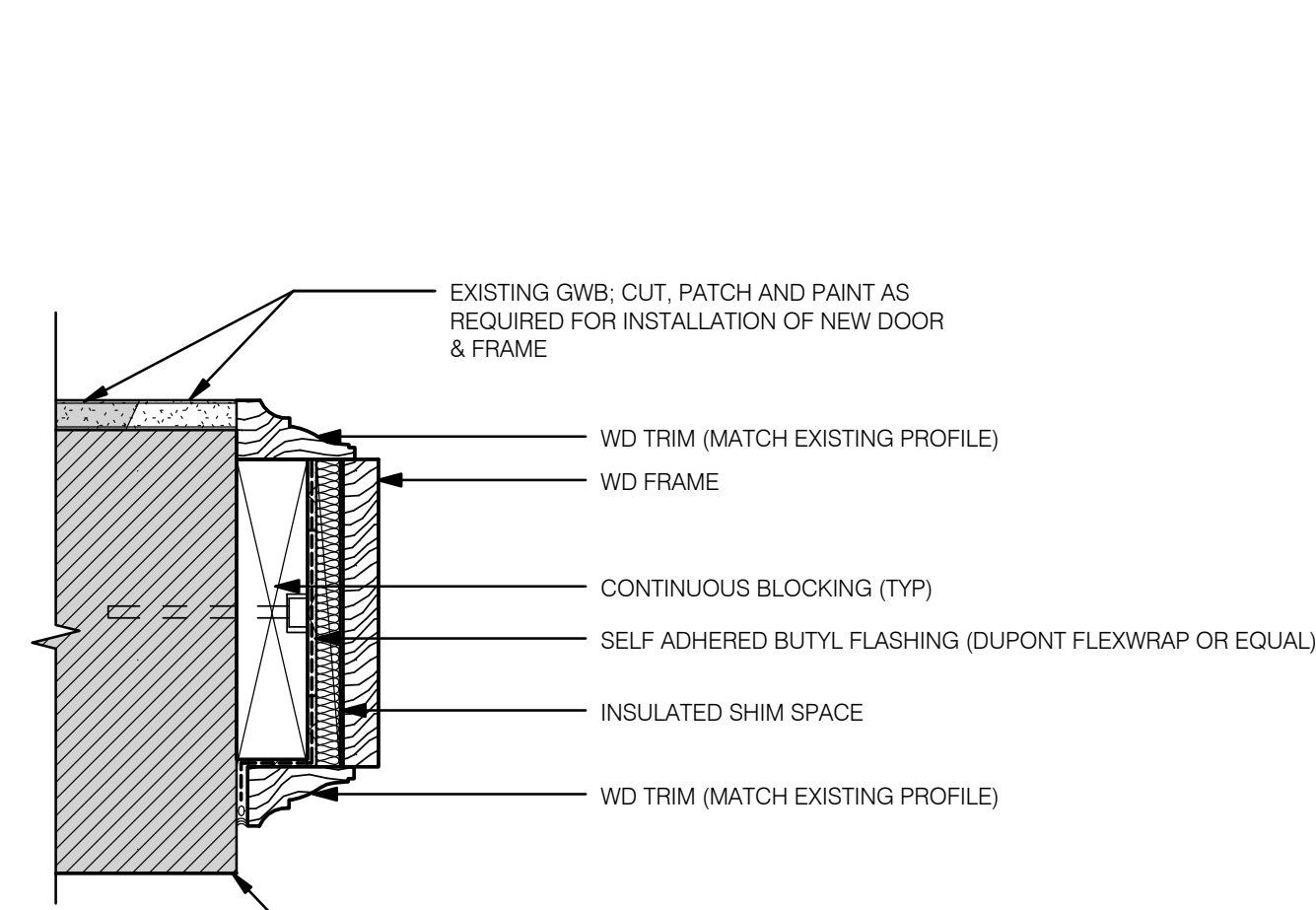
1 H1
A603 SCALE: 3" = 1'-0"



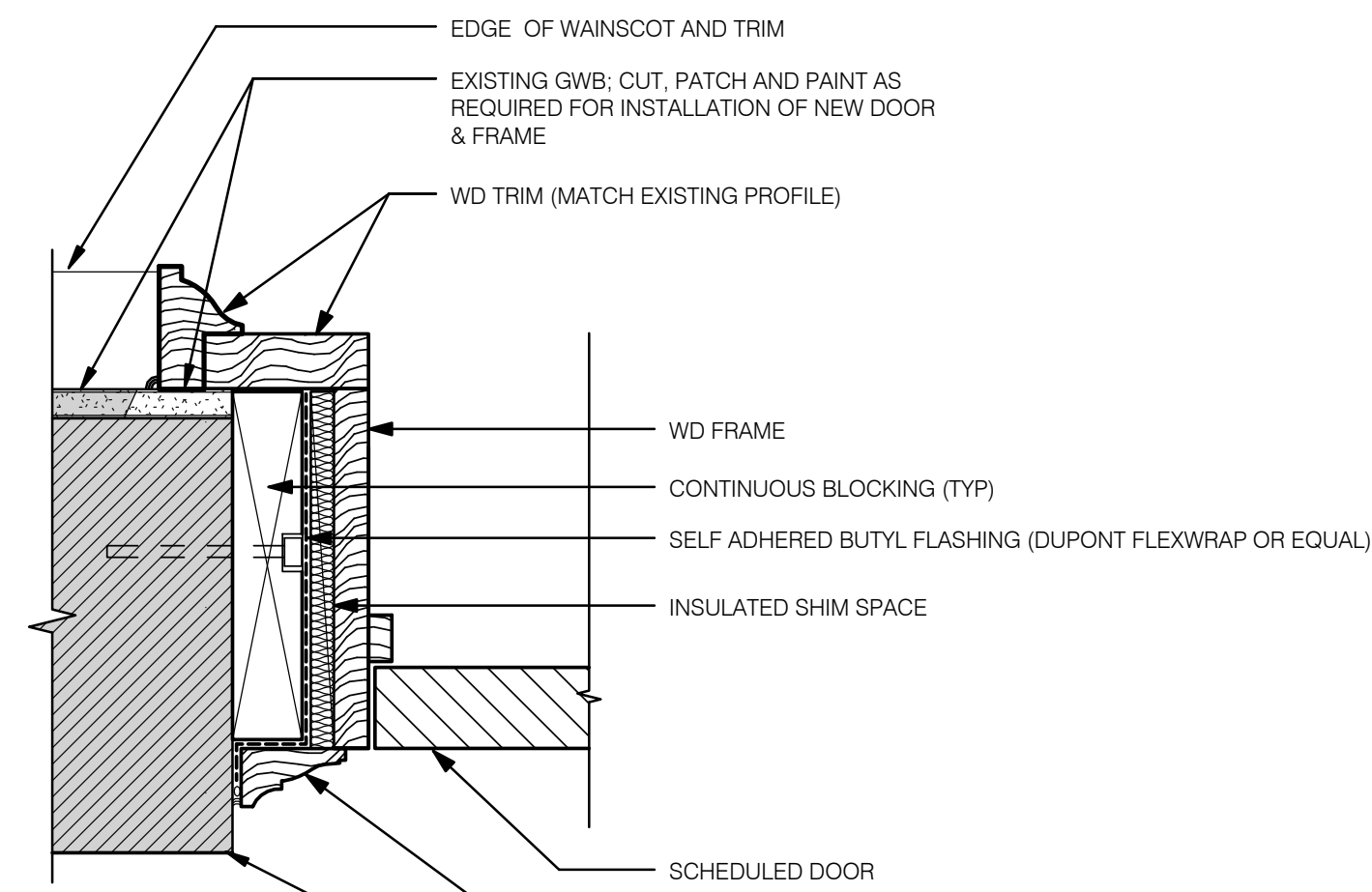
2 H2
A603 SCALE: 3" = 1'-0"



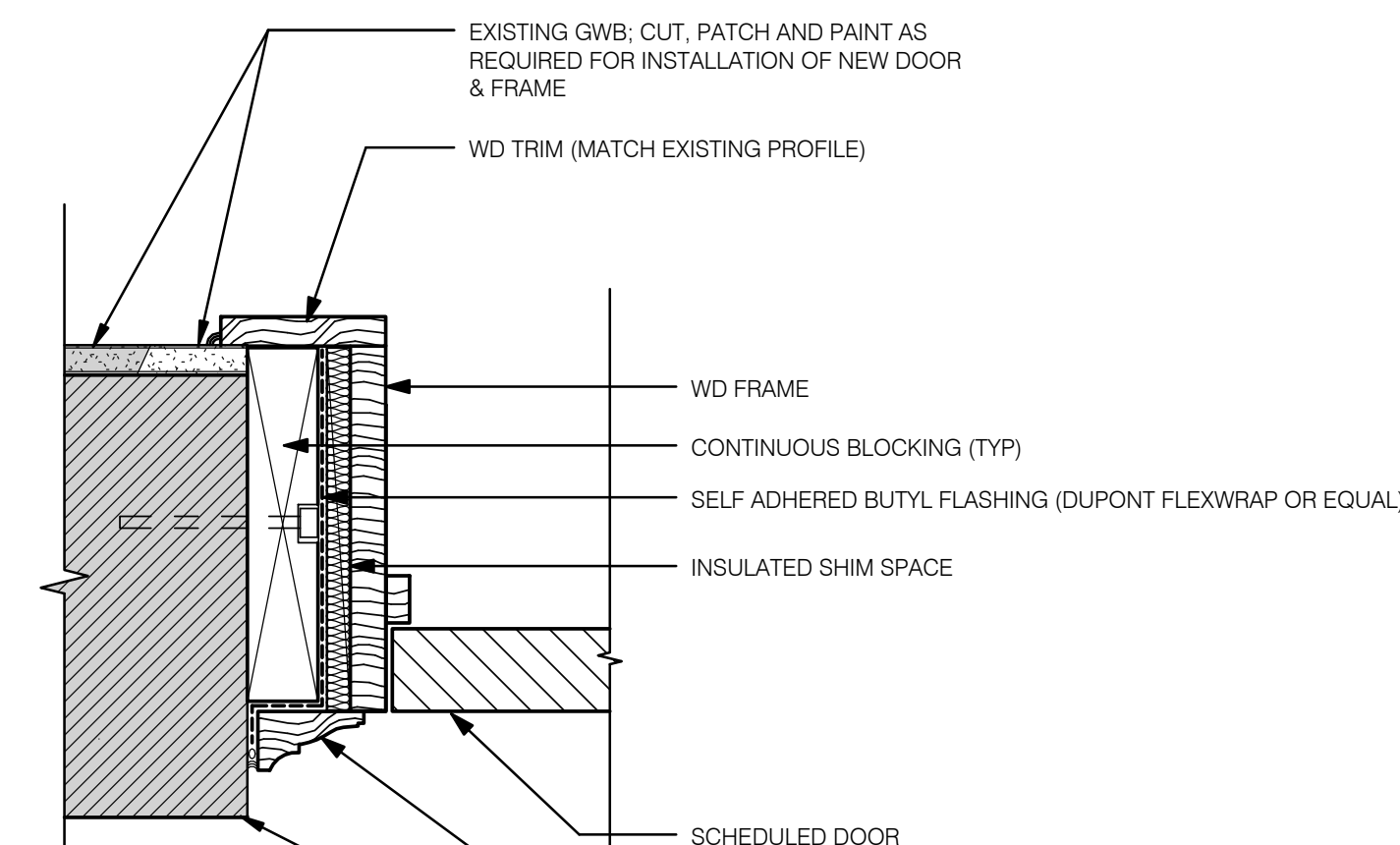
3 H3
A603 SCALE: 3" = 1'-0"



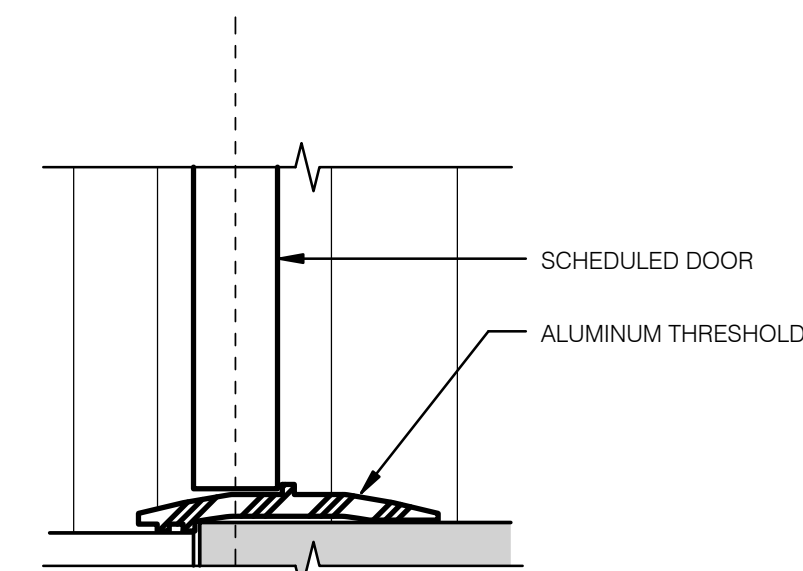
4 J1
A603 SCALE: 3" = 1'-0"



6 J2
A603 SCALE: 3" = 1'-0"



7 J3
A603 SCALE: 3" = 1'-0"



5 EXTERIOR DOOR SILL DETAIL
A603 SCALE: 3" = 1'-0"

NOTE 1: GC TO VERIFY ALL DIMENSIONS
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NOTE 4: ALL SHIMS TO BE SYNTHETIC
NOTE 5: SEE ELEVATIONS FOR LOCATIONS OF EXISTING SHUTTERS

Revision Date Description

University of South Carolina
**Harper/Elliott
Window
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Date: 11/02/2017
Scale: 3" = 1'-0"

**A603
DOOR DETAILS**

SCALE: 3" = 1'-0"