

BUILDING CODE ANALYSIS		
PROJECT: Roof Recover Project at OLD OBSERVATORY BUILDING SUBMITTAL:    [ ] SCHEMATIC    [ ] DESIGN DEVELOPMENT [ X ] CONSTRUCTION DOCUMENT DATE: 07/10/2020                      CODE & EDITION: 2015 IBC & 2009 IECC		
BASIC BUILDING CODE INFORMATION		
		ROOF AREAS 1-3
CONSTRUCTION CLASSIFICATION TYPE (IBC 602)	EXISTING (ASSUMED MOST SIMILAR TO TYPE II-A)	
OCCUPANCY GROUP (indicate all) (IBC 302) (Note IBC 506.5)	BUSINESS (B) Office/Education > 12th grade	
OCCUPANCY GROUP (indicate most restrictive) (IBC Table 503)	BUSINESS (B) Office/Education > 12th grade	
Does building require Incidental Use Area Separation? (IBC 508.2.5)		[ X ] no    [ ] yes
Does building have Accessory Occupancy (es)? What percent of story is Accessory Occupancy? (IBC 508.2)		[ X ] no    [ ] yes SF %
Mixed Occupancy (IBC 508)		[ X ] no    [ ] yes
Non separated (IBC 508.3)		[ X ] no    [ ] yes
Separated (IBC 508.4) (IBC 506.5)		[ X ] no    [ ] yes
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 locations in construction documents (e.g. fire extinguishers, smoke-evacuation/control/compartments. Note IBC 414.1.3.)		N/A
FIRE RESISTANCE RATING OF BUILDING ELEMENTS		
Roof Construction including supporting beams & joists (IBC Table 601)	As Required, Hrs	1 HR
	As Designed, Hrs	1 HR
	Testing Agency & Design No.(UL, FM, etc)	UL
	Wall/Partition Key Code	
STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	ASCE 7-16	RISK CATEGORY III 125 MPH
ENERGY INFORMATION		
INSULATION		
Roof	FIBERGLASS BATT INSULATION CONTINUOUS AT CEILING LEVEL (APPROXIMATELY >20 R)	N/A AT ROOF DECK

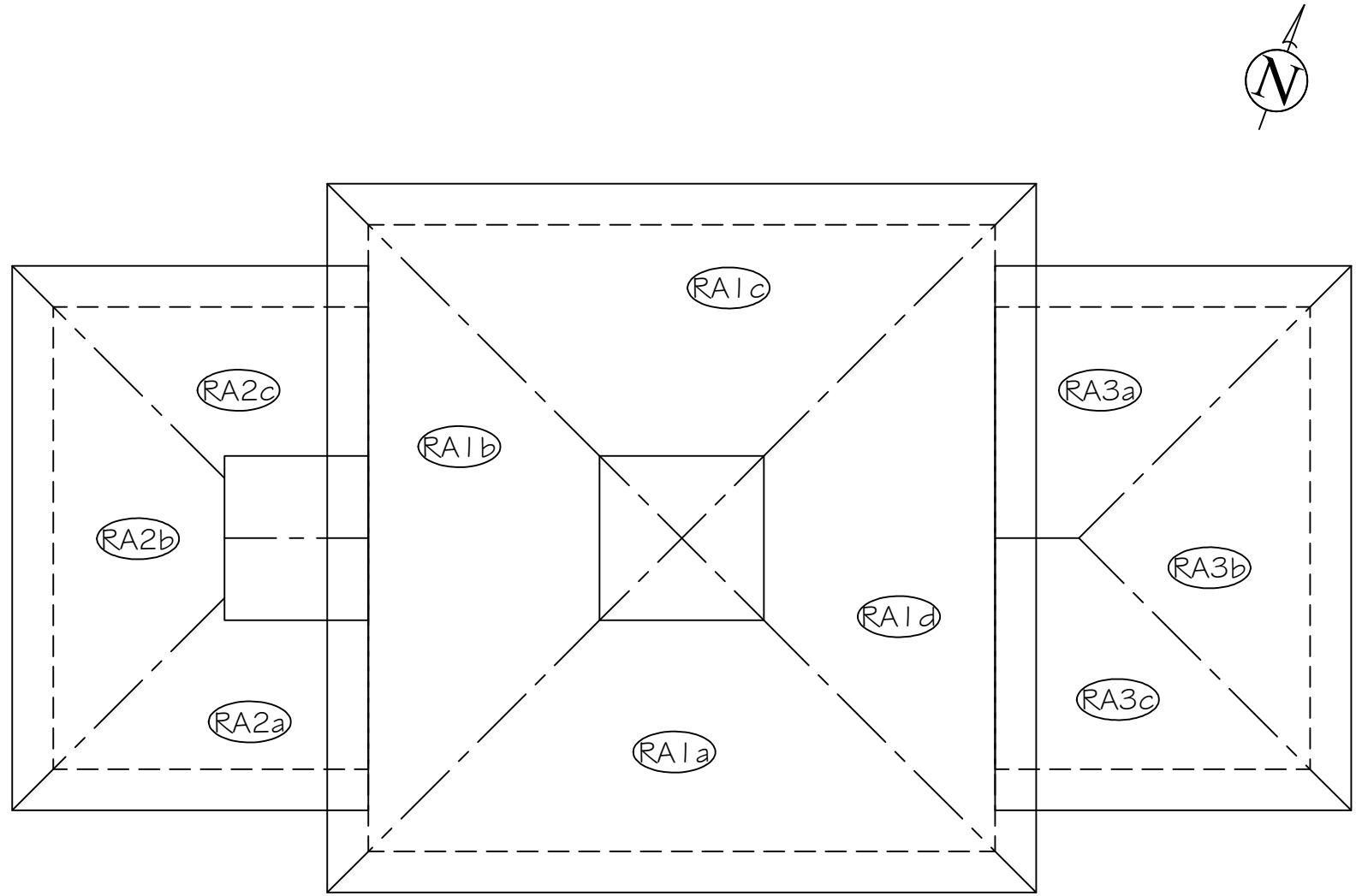
LEGEND

= AREA TO BE REPLACED

= AREA NOT IN CONTRACT

RA #

 = ROOF AREA LABEL



1 OLD OBSERVATORY KEY PLAN

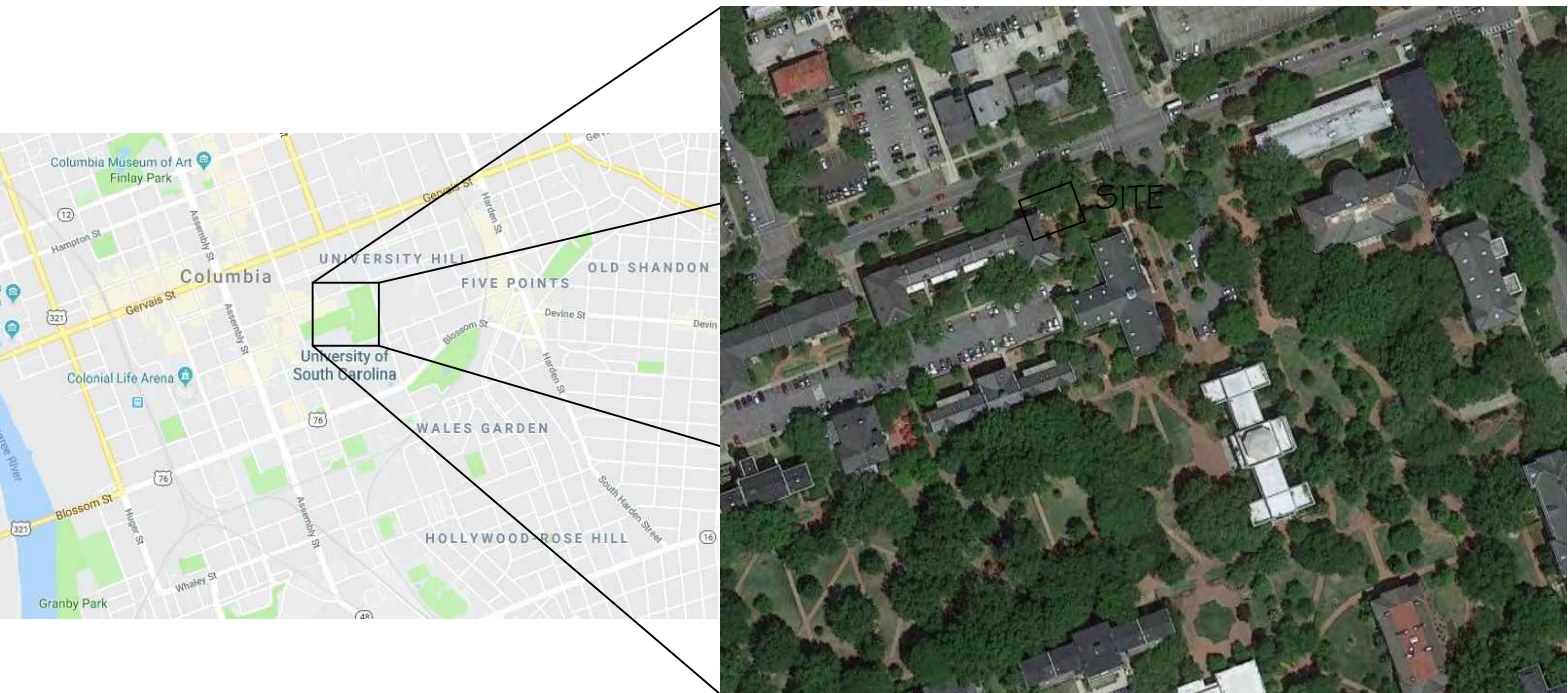
PROJECT DATA

A. PROJECT DESIGNED IN ACCORDANCE WITH:  
1. INTERNATIONAL BUILDING CODE - 2015 EDITION  
2. INTERNATIONAL PLUMBING CODE - 2015 EDITION  
3. INTERNATIONAL FIRE CODE - 2015 EDITION  
4. INTERNATIONAL EXISTING BUILDING CODE - 2015 EDITION  
5. INTERNATIONAL ENERGY CONSERVATION CODE - 2009 EDITION  
6. NATIONAL FIRE PROTECTION ASSOCIATION 10 - 2013 EDITION

B. BASIC REVIEW INFORMATION  
1. EXISTING STRUCTURE CONSISTS OF MULTI-WYTHE BRICK MASONRY WALLS WITH WOOD FRAMING AND DECKING, COVERED BY UNDERLAYMENT AND SLATE SHINGLES.  
2. AREA OF AFFECTED ROOF (BASE BID): 528 SF  
    a. RA1: 298 SF  
    b. RA2: 115 SF  
    c. RA3: 115 SF  
3. ROOF HEIGHT ABOVE GRADE (ALL ARE APPROXIMATE):  
    a. RA1: 38'-42"  
    b. RA2: 28'-31"  
    c. RA3: 28'-31"  
5. PRIMARY OCCUPANCY CLASS: GROUP "E" EDUCATION  
6. CLASS "A" ROOF COVERING

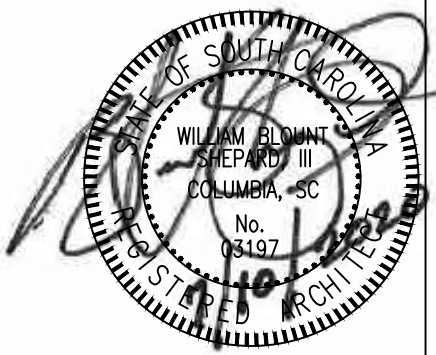
C. PROJECT IN FIRE DISTRICT: YES

D. STRUCTURAL INFORMATION:  
1. DESIGN LOADS:  
    a. ORIGINAL DEAD LOAD INCLUDED SLATE ESTIMATED WEIGHT: 4 lbs/SF  
    b. PROPOSED DEAD LOAD INCLUDING SLATE DESIGN WEIGHT: 4 lbs/SF  
    c. NET DEAD LOAD WILL NOT CHANGE

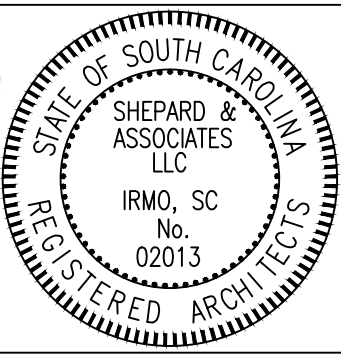


2 SITE VICINITY MAP

DRAWING INDEX	
K1	KEY PLAN, DRAWING INDEX & SITE VICINITY MAP
R1	ROOF PLAN
D1	DETAILS
D2	DETAILS



REVISIONS	
REVISION	DATE APPROVED



PF 11012.022.004
DATE: 07/10/20
SCALE: NTS
DRAWN: PU
CHECKED: WBS

SHEET

K1

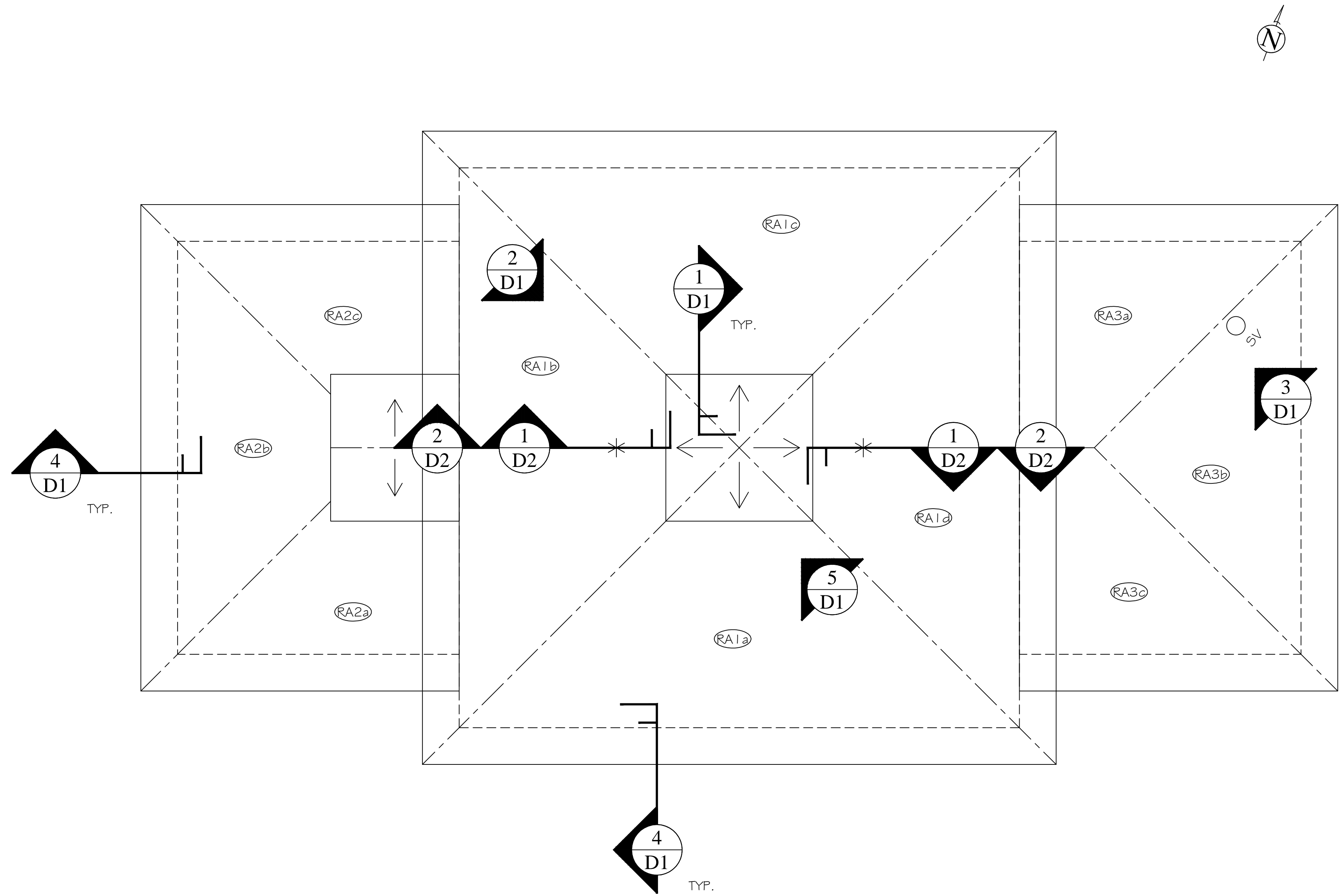
Shepard & Associates, LLC

3547 Dreher Shoals Road, Suite 6  
Irmo, South Carolina 29063  
Phone: (803) 407-8284  
Fax: (803) 407-8206

SHEET TITLE: Key Plan

PROJECT DESCRIPTION: State Project Number: FY21000007  
OLD OBSERVATORY BUILDING

CLIENT NAME: UNIVERSITY OF SOUTH CAROLINA



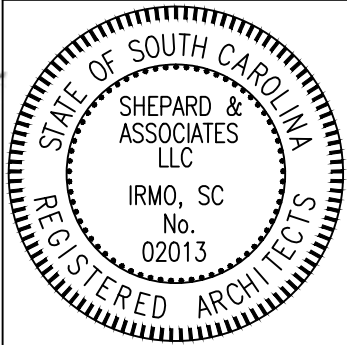
1 OLD OBSERVATORY BUILDING ROOF PLAN

**LEGEND**

- = DIRECTION OF ROOF SLOPE (SLOPE = 4:1 1/2 UNLESS OTHERWISE NOTED)
- = EDGE OF ROOF BUILDING LINE BELOW
- = SANITARY SEWER VENT
- = FALL PROTECTION DEVICE



REVISIONS		
REVISION	DATE	APPROVED

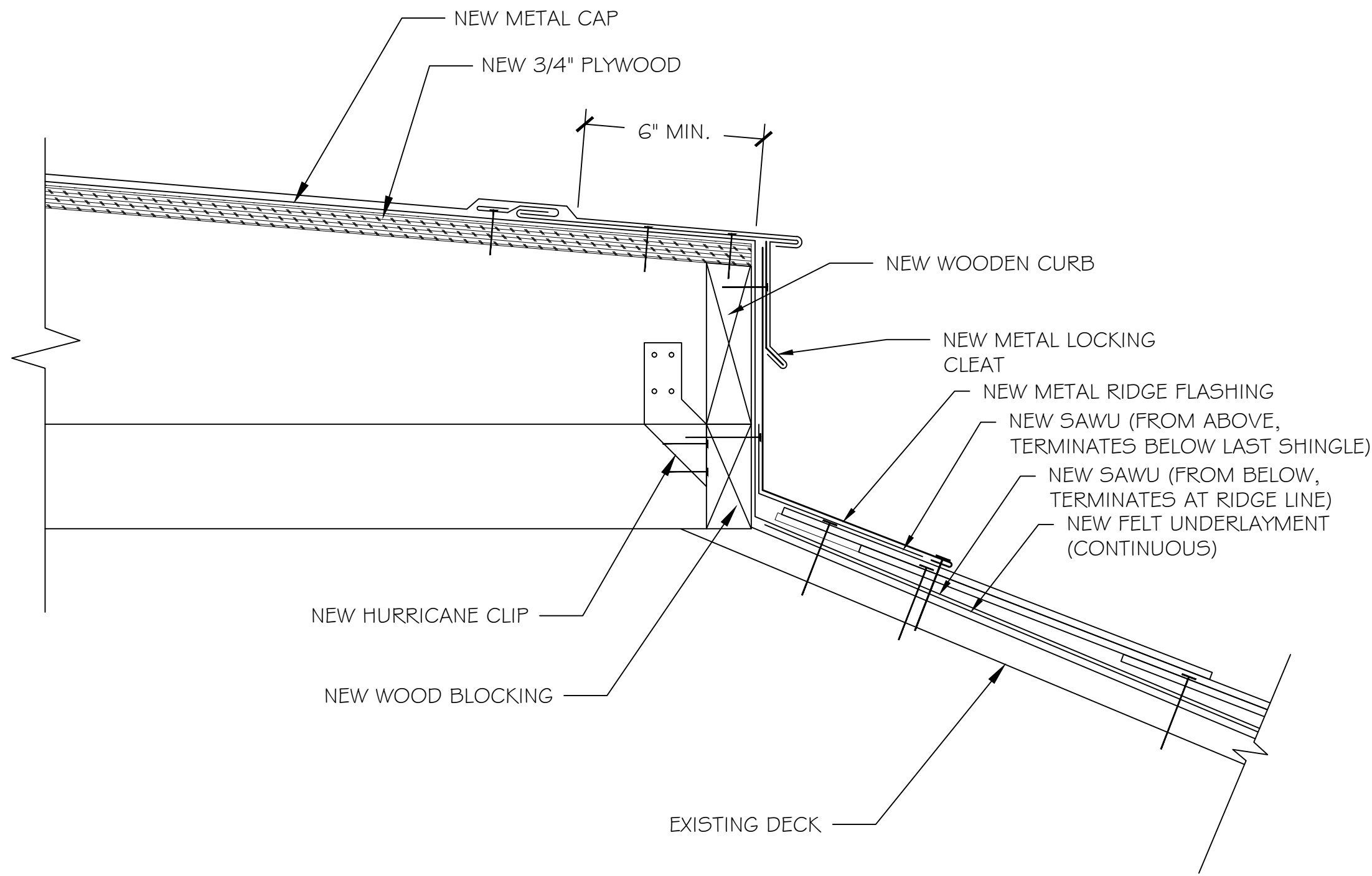


PF 11012.022.004
DATE: 07/10/20
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DRAWN: PIJ
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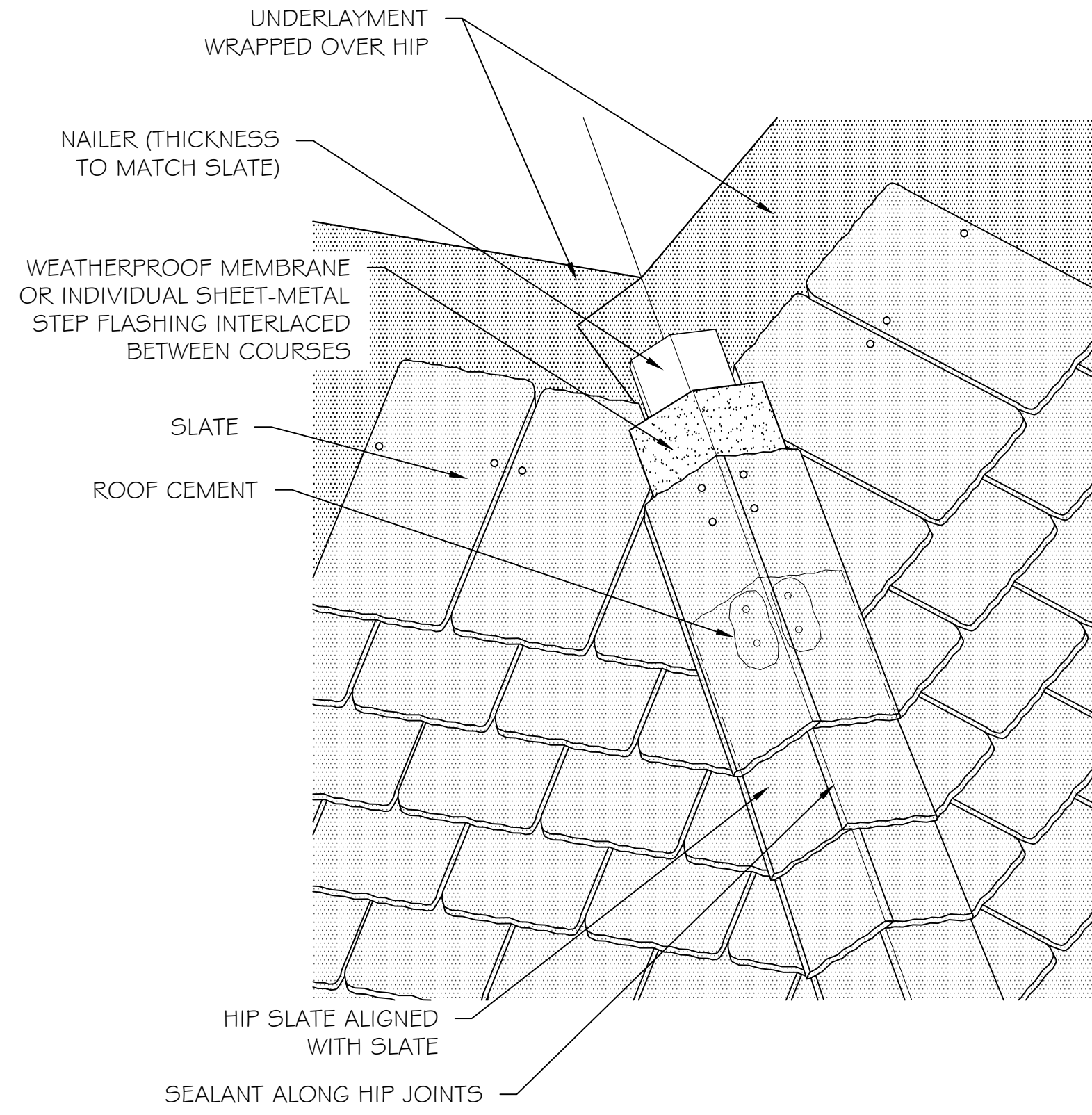
SHEET  
**R1**

SHEET TITLE:	Roof Plan: Administration Building
PROJECT DESCRIPTION:	State Project Number: FY21000007 OLD OBSERVATORY BUILDING
CLIENT NAME:	UNIVERSITY OF SOUTH CAROLINA

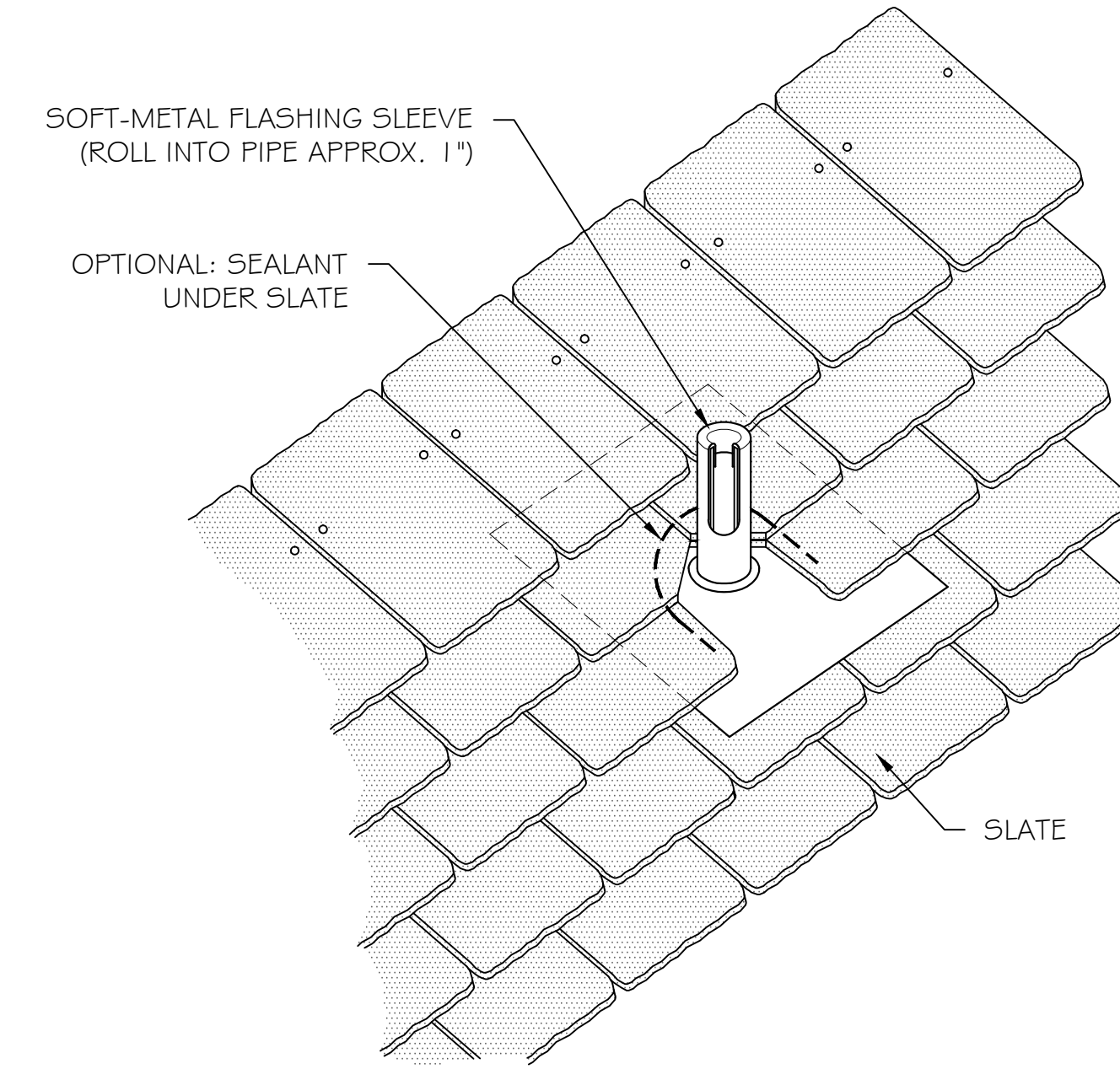
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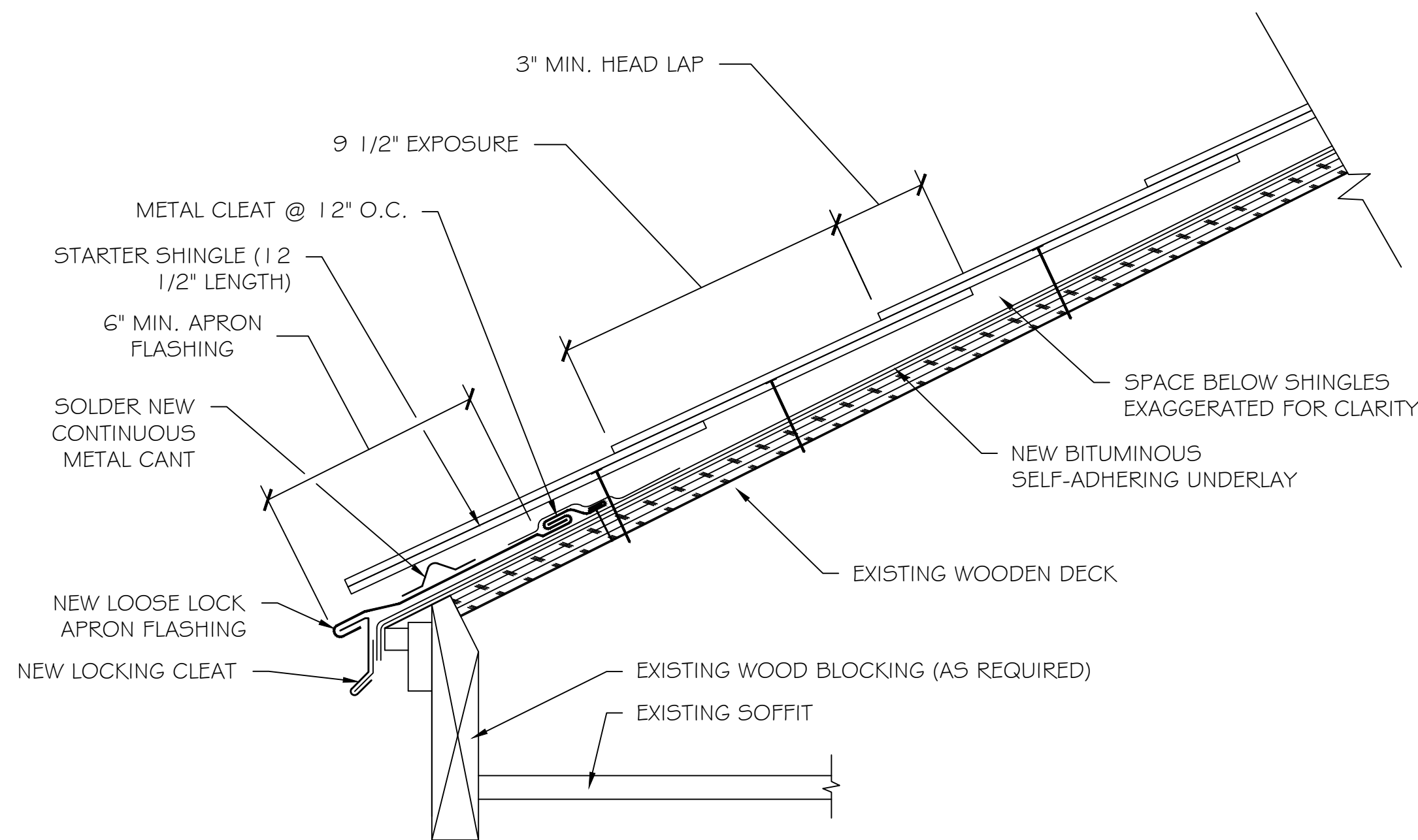
1 FLASHING



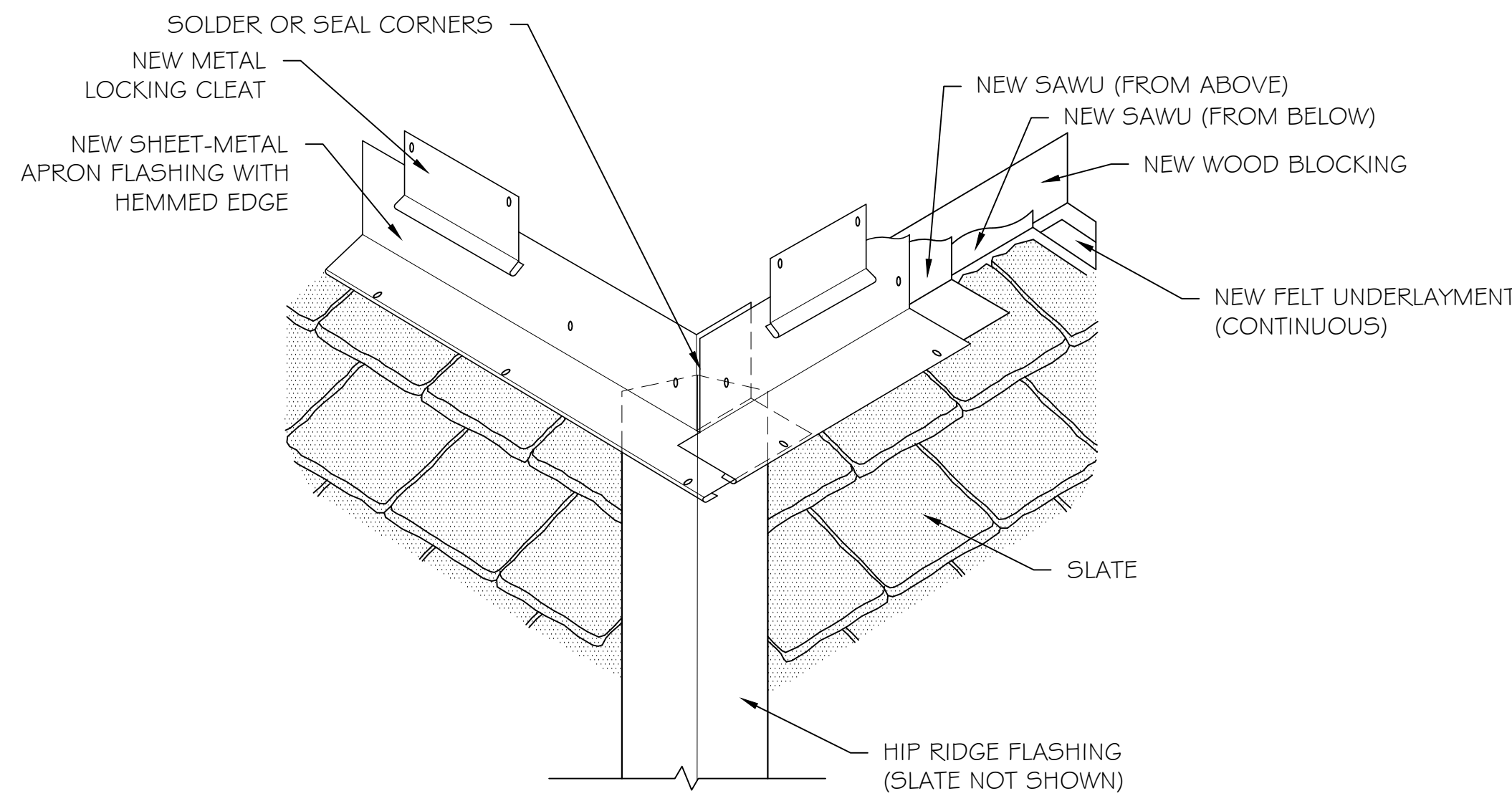
2 HIP RIDGE



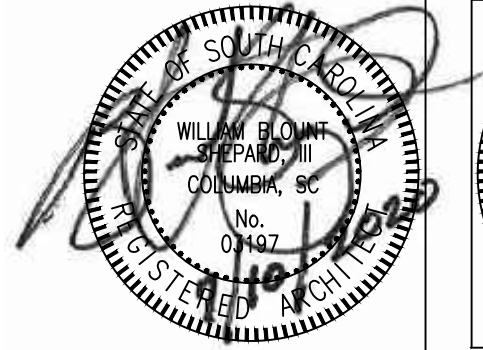
3 PIPE PENETRATION



4 EAVE

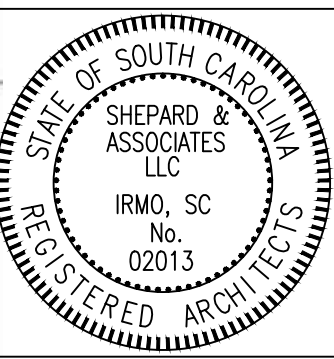


5 APRON FLASHING AT SUMMIT

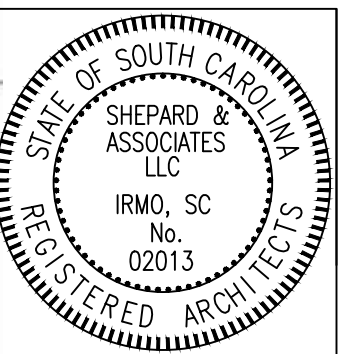
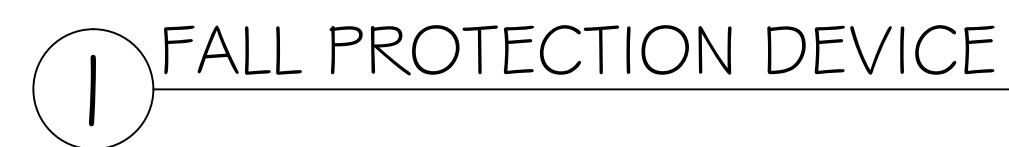


SHEET TITLE:	Details
PROJECT DESCRIPTION:	State Project Number: FY21000007 OLD OBSERVATORY
CLIENT NAME:	UNIVERSITY OF SOUTH CAROLINA

REVISIONS	REVISION	DATE	APPROVED



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DRAWN: PJ
CHECKED: WBS



SHEET  
D2

SHEET TITLE:	
Details	
PROJECT DESCRIPTION:	State Project Number: FY21000007 OLD OBSERVATORY
CLIENT NAME:	UNIVERSITY OF SOUTH CAROLINA

REVISIONS	
REVISION	DATE APPROVED