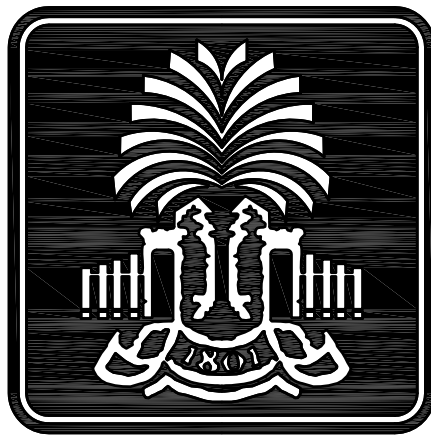


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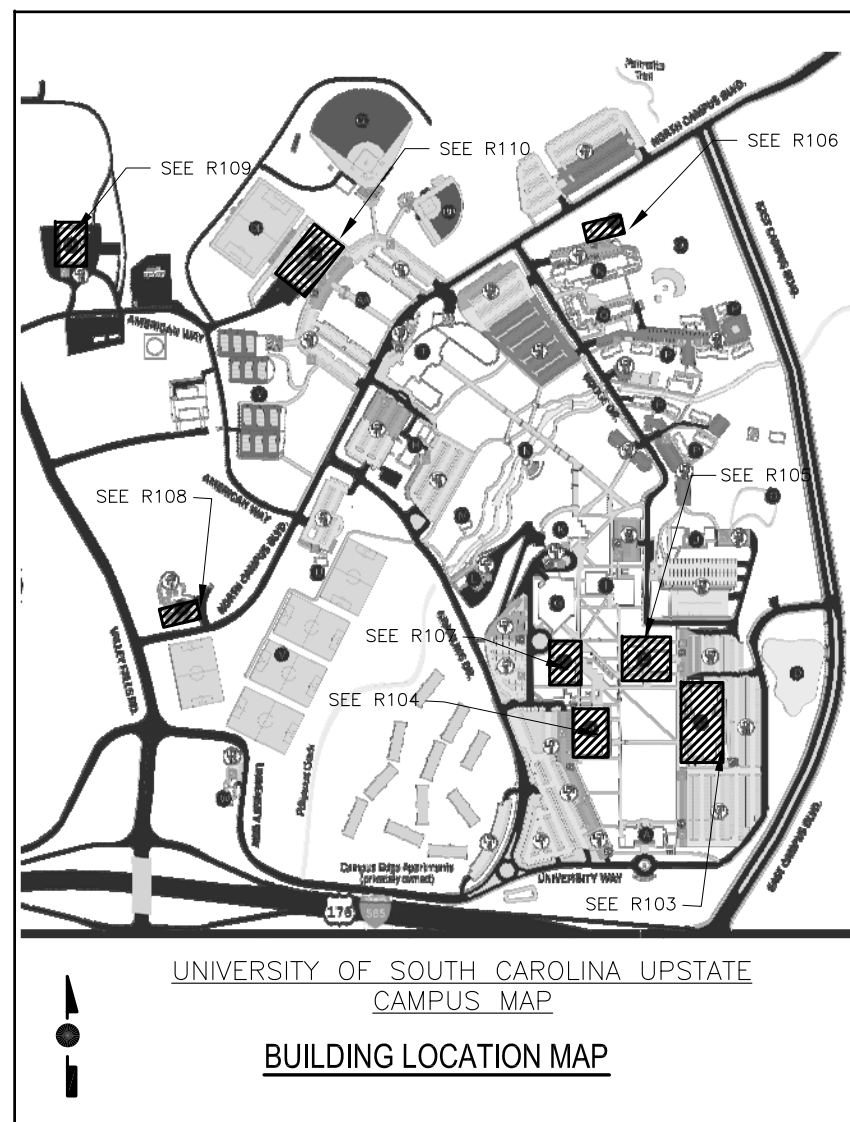
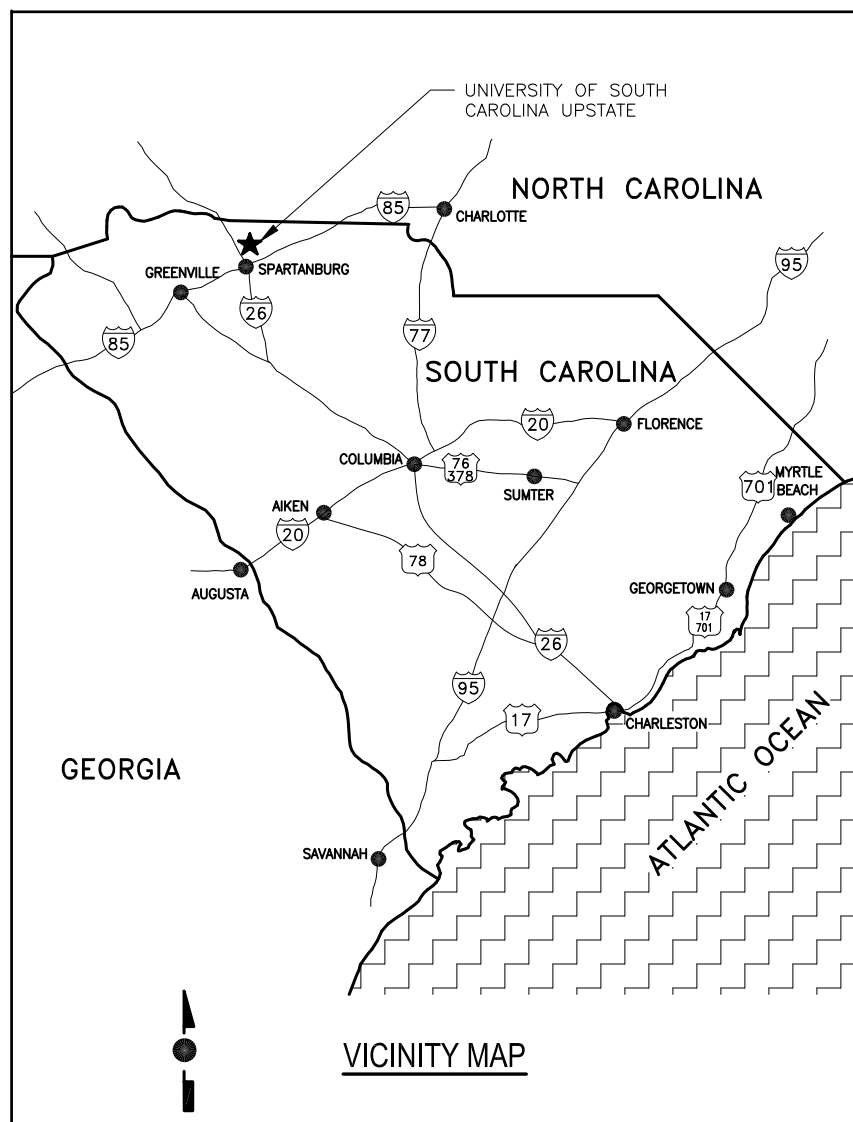


# USC UPSTATE ROOF REPAIRS

UNIVERSITY OF SOUTH CAROLINA UPSTATE

800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA

STATE PROJECT NUMBER:H34-I366  
ADC PROJECT NUMBER:13021



LEGEND	ABBREVIATIONS	
ROOF AREA LEVEL SYMBOL	A ABANDONED	
ROOF DRAIN	ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	
OVERFLOW DRAIN	BIA BRICK INDUSTRY ASSOCIATION	
OVERFLOW SCUPPER	DS DOWNSPOUT	
GUTTER W/ DOWNSPOUT TO STORM DRAIN	EPDM SINGLE PLY	
GUTTER W/ EXPANSION JOINT	ETC ET CETERA	
GUTTER W/ DOWNSPOUT	HVAC HEAT/VENTILATION/AIR CONDITION POUND	
CONDUCTOR HEAD TO DOWNSPOUT TO STORM DRAIN	LB MAXIMUM	
BUILT-IN GUTTER	MIN MINIMUM	
HVAC UNIT	N.I.C. NOT IN CONTRACT	
ABANDONED PENETRATION	NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION	
VENT THRU ROOF	O.C. ON CENTER	
VENTILATOR CURB	OSHA OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION	
STACK ON CURB	PVC POLYVINYLCHLORIDE	
STACK	RD ROOF DRAIN	
ROOF PENETRATION	SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.	
ROOF SCUTTLE HATCH	SWRI SEALANT WATERPROOFING RESTORATION INSTITUTE	
LADDER	TYP TYPICAL	
PARAPET WALL	VTR VENT THRU ROOF	
PIPE PENETRATION	W/ WITH	
EXPANSION JOINT		
SLOPE DIRECTION		
ANTENNA		
SHINGLES HATCH		
SLATE HATCH		
METAL ROOF HATCH		

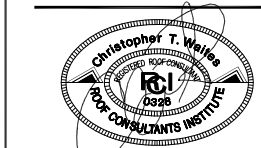
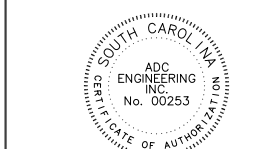
DETAILS/SECTION IDENTIFIER	
	DETAIL/SECTION LABEL
	SHEET SHOWN ON

DRAWING INDEX	
R101	COVER SHEET
R102	GENERAL NOTES
R103	HOGUE CENTER
R104	LIBRARY
R105	MEDIA CENTER
R106	RAMPEY CENTER
R107	SMITH SCIENCE BUILDING
R108	UNIVERSITY PUBLIC SAFETY
R109	FACILITIES MANAGEMENT COMPELX
R201	DETAILS / SECTIONS
R202	DETAILS / SECTIONS
R203	DETAILS / SECTIONS
R204	DETAILS / SECTIONS
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USC UPSTATE ROOF REPAIRS  
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800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA



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ADC PROJECT #:	13021
DESIGNED:	CTW
CHECKED:	CTW
DRAWN:	DAA
REVISION:	

COVER SHEET

R101

SHEET 1 OF 14

## SUMMARY OF WORK

- A. THE BUILDINGS WILL REMAIN COMPLETELY FUNCTIONAL AND FULLY PROTECTED AT ALL TIMES DURING THE CONSTRUCTION WORK.
- B. BASE BID WORK INCLUDES SELECTIVE REPAIRS OF THE ROOF SYSTEMS AND MASONRY WALLS AT SEVERAL BUILDINGS AT THE USC UPSTATE CAMPUS. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
1. SELECTIVE DEMOLITION OF THE EXISTING ROOF SYSTEMS IN ACCORDANCE WITH SECTION 02 04 00, CUTTING AND PATCHING AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
  2. SELECTIVE BRICK MASONRY RESTORATION AND REPAIRS IN ACCORDANCE WITH SECTION 04 50 01, MASONRY REPLACEMENT, RESTORATION AND CLEANING.
  3. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
  4. SELECTIVE ELASTOMERIC COATING AND FABRIC SYSTEM IN ACCORDANCE WITH SECTION 07 14 04, COATINGS FOR RECONDITIONING METAL ROOF SYSTEMS.
  5. SELECTIVE SLATE ROOFING SYSTEM REPAIRS IN ACCORDANCE WITH SECTION 07 31 09, SLATE ROOFING REPAIR.
  6. SELECTIVE METAL ROOF REPAIRS IN ACCORDANCE WITH SECTION 07 41 03, METAL ROOF REPAIRS.
  7. SELECTIVE LOW SLOPED ROOF SYSTEM REPAIRS IN ACCORDANCE WITH SECTION 07 50 00, GENERAL ROOF REPAIRS AND MAINTENANCE.
  8. SHEET METAL, COMPONENTS AND ACCESSORIES PER SECTION 07 60 00, SHEET METAL.
  9. SELECTIVE REPLACEMENT OF SEALANT SYSTEMS FROM THE BUILDING ENVELOPE IN ACCORDANCE WITH SECTION 07 92 10, SEALANTS FOR BUILDING ENVELOPE.
- C. UNIT PRICES AND ALLOWANCES ARE INCLUDED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCES AND ARE TO BE INCLUDED IN THE BASE BID.

## UNIT PRICE QUANTITIES

1. IN ACCORDANCE WITH SECTION 01 11 00, SUMMARY OF WORK, THE CONTRACT DOCUMENTS INCLUDE WITHIN THE BASE BID SPECIFIC QUANTITIES.
2. THE SPECIFIC QUANTITIES ARE LISTED WITHIN THE INDIVIDUAL SPECIFICATION SECTIONS OF THIS PROJECT AND ARE INCLUDED ON THE BID FORM AS NOTED.  
  
A SINGLE UNIT PRICE WILL BE PROVIDED FOR EACH ITEM, TO BE USED AS AN 'ADD' OR 'DEDUCT', BASED ON ACTUAL FIELD CONDITIONS. ANY QUANTITY ABOVE OR BELOW THESE SPECIFIED AMOUNTS WILL RESULT IN AN 'ADD' OR 'DEDUCT' TO THE CONTRACT SUM BASED ON THE REQUIRED UNIT PRICES.
3. IN ACCORDANCE WITH SECTION 01 21 00, UNIT PRICES AND ALLOWANCES, THE FOLLOWING DOCUMENTATION IS REQUIRED.
  - A. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL REPAIR UNIT PRICED QUANTITIES USED BASED ON CONTRACT REQUIREMENTS.
  - B. CONTRACTOR SHALL NOTIFY OWNER IN WRITING WHEN 80% OF QUANTITY IS USED FOR EACH UNIT PRICE ITEM.
  - C. OWNER IS NOT RESPONSIBLE FOR QUANTITIES WHICH EXCEED 80% UNLESS OWNER IS NOTIFIED IN WRITING PRIOR TO EXCEEDING THESE QUANTITIES, AND CONTRACTOR RECEIVES APPROVAL TO PROCEED.
  - D. PROVIDE PHOTOGRAPH OR VIDEOTAPE DOCUMENTATION OF REPAIRS AND ACTUAL QUANTITIES USED.
  - E. LOCATE QUANTITIES AND SHOW THEIR LOCATIONS ON DRAWINGS.
  - F. PROVIDE ACTUAL USED QUANTITIES ON EACH APPLICATION FOR PAYMENT REQUEST.
4. PROVIDE SUMMARY OF UNIT QUANTITIES 'REQUIRED' VERSE 'USED' AND ABOVE DOCUMENTATION WHEN REQUESTED, AND AS PART OF PROJECT CLOSE-OUT REQUIREMENTS OF SECTION 01 77 00, CONTRACT CLOSE-OUT.

## GENERAL M/E/P AND COORDINATION NOTES

1. DISCONNECT AND REMOVE ALL ROOFTOP MECHANICAL AND ELECTRICAL EQUIPMENT AS NECESSARY TO COMPLETE THE WORK AND REINSTALL UPON COMPLETION OF WORK. PROVIDE FOR EXTENSION AND MODIFICATION OF SERVICE, UTILITIES, INTERIOR COMPONENTS AND ALL CONNECTIONS AS NECESSARY TO ACCOMMODATE NEW HEIGHTS AND LOCATIONS.
2. ANY CABLES, WIRES, SATELLITE OR MICROWAVE DISHES, ANTENNAS AND ROOFTOP MECHANICAL, ELECTRICAL OR ELECTRONIC COMPONENTS SHALL BE TEMPORARILY DISCONNECTED AND RECONNECTED BY QUALIFIED CRAFTSMEN. THIS INCLUDES ROOF AREAS, FLASHINGS AND ADJACENT WALL AREAS.
3. ANY LOCATIONS/CONDITIONS WHERE THE ABOVE REQUIREMENTS CANNOT BE MET, SHALL BE BROUGHT TO THE ATTENTION OF THE ROOF CONSULTANT/ENGINEER OR OWNER IMMEDIATELY.

## CONSTRUCTION NOTES

1. SUBSTRATE SHALL BE INSPECTED AND REPAIRED AS SPECIFIED PRIOR TO SYSTEM INSTALLATION.
2. PROVIDE ALL NEW WOOD PRODUCTS AS REQUIRED TO PROVIDE FOR INDICATED DETAILS AND TO MEET SPECIFIED REQUIREMENTS. CONTRACTOR MAY REUSE EXISTING CARPENTRY WHICH ARE SOUND AND COMPATIBLE WITH THE NEW WORK SPECIFIED. EXISTING DAMAGED OR DETERIORATED CARPENTRY NOT OTHERWISE INDICATED FOR REPLACEMENT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCES, AND SECTION 06 10 00, ROUGH CARPENTRY.
3. CARPENTRY THICKNESSES AS REQUIRED TO MATCH BUILDING CONDITIONS. STACKED CONFIGURATIONS AND VARYING THICKNESSES MAY BE REQUIRED TO MATCH INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
4. ROOFING AND SHEET METAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE CONTRACT REQUIREMENTS. ANY CLARIFICATIONS OR ADDITIONAL INFORMATION SHALL BE IN ACCORDANCE WITH PUBLISHED GUIDELINES OF NRCA ROOFING AND WATERPROOFING MANUAL (5th EDITION) AND SMACNA ARCHITECTURAL SHEET METAL MANUAL (7th EDITION).
5. ALL FLASHING TERMINATIONS SHALL HAVE CONFORMING WATERTIGHT SHEET METAL CLOSURES, AND WATERPROOF UNDERLAYMENT ALL SHEETMETAL BELOW W/ SEALED LAPS.
6. SPECIFIC AND TYPICAL DETAILS ARE PROVIDED W/ GENERIC TYPE DECK SHOWN. TYPICAL DETAILS APPLY TO ALL INSTANCES WHERE SIMILAR CONDITION OCCURS.
7. ALL WORK SHALL BE CONDUCTED IN A SUBSTANTIAL WORKMANLIKE MANNER IN ACCORDANCE WITH SPECIFIED REQUIREMENTS.

## GENERAL NOTES

1. PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT DECK SURFACES AND SUBSTRATE CONDITIONS. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT THE COURSE OF WORK.
2. ALL BUILDING DIMENSIONS, EXISTING CONDITIONS, ITEM LOCATIONS, AND SIZE AND QUANTITY OF PENETRATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BID.
3. LAYDOWN / STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.
4. SITE SHALL BE CLEANED ON A DAILY BASIS AND SECURED AT THE END OF EACH WORK DAY.
5. BUILDING ACCESS SHALL BE COORDINATED WITH THE OWNER AND SHALL BE ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK.

## DEMOLITION NOTES

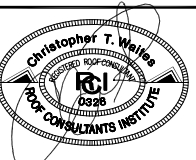
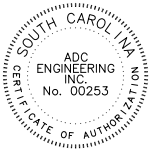
1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02 04 00, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY IN INDICATED AREAS OF ROOF REPAIR. AVOID DAMAGING ADJACENT AREAS.
3. BUILDING ENVELOPE DEMOLITION IS REQUIRED TO THE VARIOUS COMPONENTS AND SYSTEMS TO COMPLETE THE REQUIRED REPAIRS, MODIFICATIONS AND REPLACEMENTS OF THIS PROJECT.
4. EXISTING NAILERS AND BLOCKING SHALL BE ADDRESSED PER CONSTRUCTION NOTES.
5. REMOVE ALL ROOF, TRIM, SIDING, FLASHINGS AND ACCESSORIES AS NOTED, SPECIFIED OR REQUIRED TO COMPLETE THE WORK, ALL NEW SHEET METAL REQUIRED UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR SHALL HAVE QUALIFIED CRAFTSMEN REMOVE AND REINSTALL ALL AFFECTED ITEMS OF THE DEMOLITION OF WORK TO COMPLETE THE WORK. THE LOCATION AND METHOD OF ATTACHMENT SHALL BE THE SAME AS THE ORIGINAL, UNLESS DIRECTED OR APPROVED OTHERWISE BY THE ROOF CONSULTANT AND/OR THE OWNER.
7. ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 05.

## PROTECTION NOTES

1. FACILITIES MAY BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE FACILITY, CONTENTS, AND OCCUPANTS.
2. THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAY'S WORK AND WHEN INCLEMENT WEATHER THREATENS.
3. CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR AND GROUNDS INCLUDING SURFACES, GRASS, PLANTS, TREES, SHRUBS, AND OTHER LANDSCAPING. THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS TO ORIGINAL OR BETTER CONDITION.
4. ANY SURFACES STAINED, MARRED, OR DAMAGED BY THE WORK OR THE CONTRACTOR, THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS OF THE SITE OR FACILITY TO ORIGINAL OR BETTER CONDITION AND MATCH ADJACENT SURFACES.
5. WORK SHALL BE SEQUENCED TO MINIMIZE TRAFFIC ON THE NEW WORK.

**USC UPSTATE ROOF REPAIRS**  
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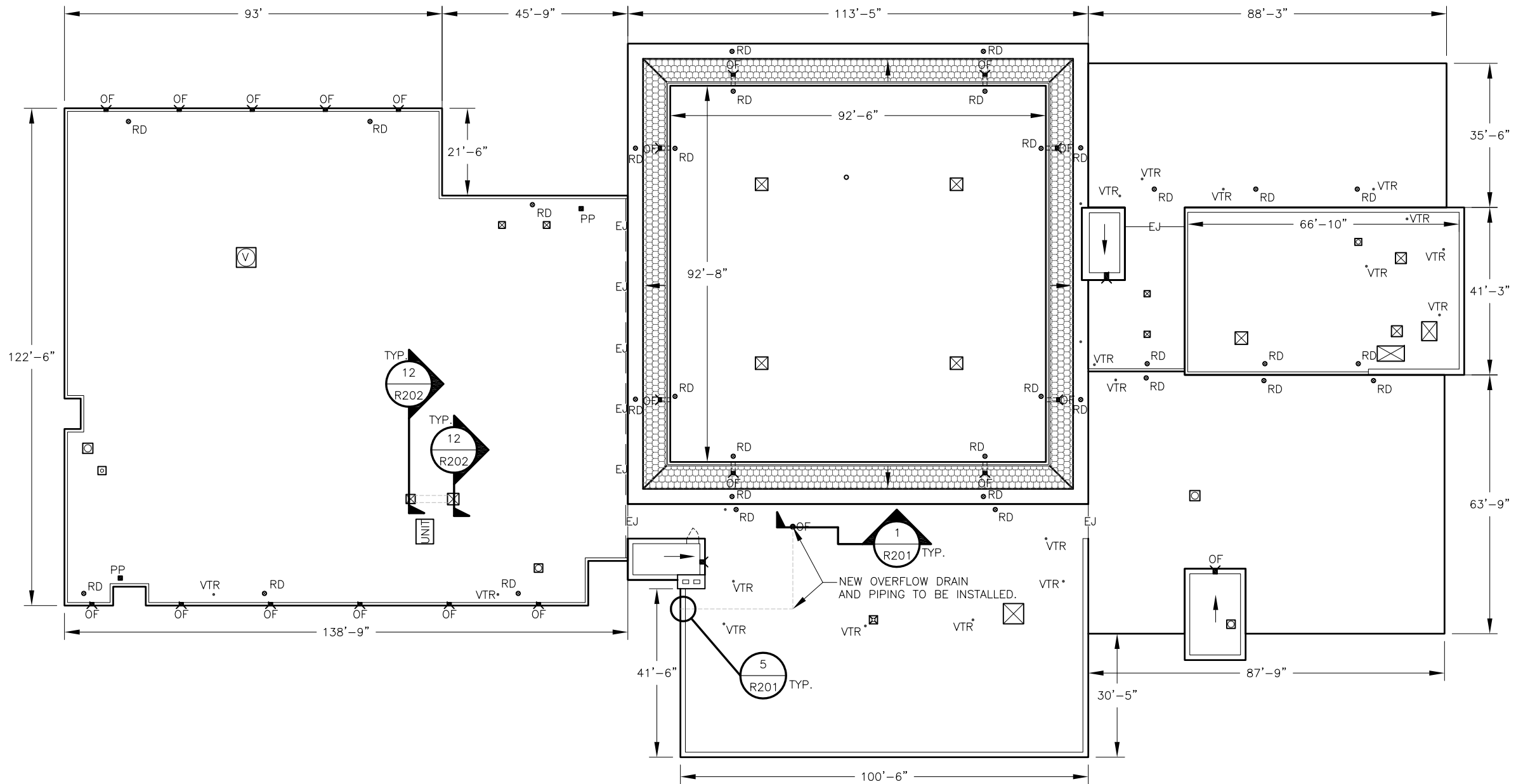
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 ADC PROJECT #: 13021  
 DESIGNED: CTW  
 CHECKED: CTW  
 DRAWN: DAA  
 REVISION:

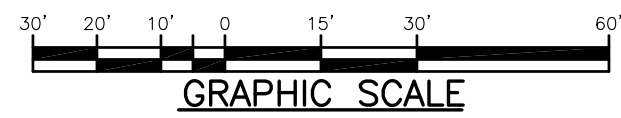
## GENERAL NOTES

**R102**

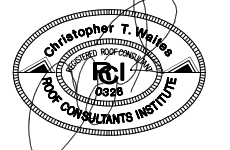
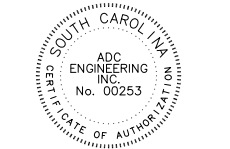
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**EXISTING ROOF PLAN  
HODGE CENTER**



**USC UPSTATE ROOF REPAIRS**  
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800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA



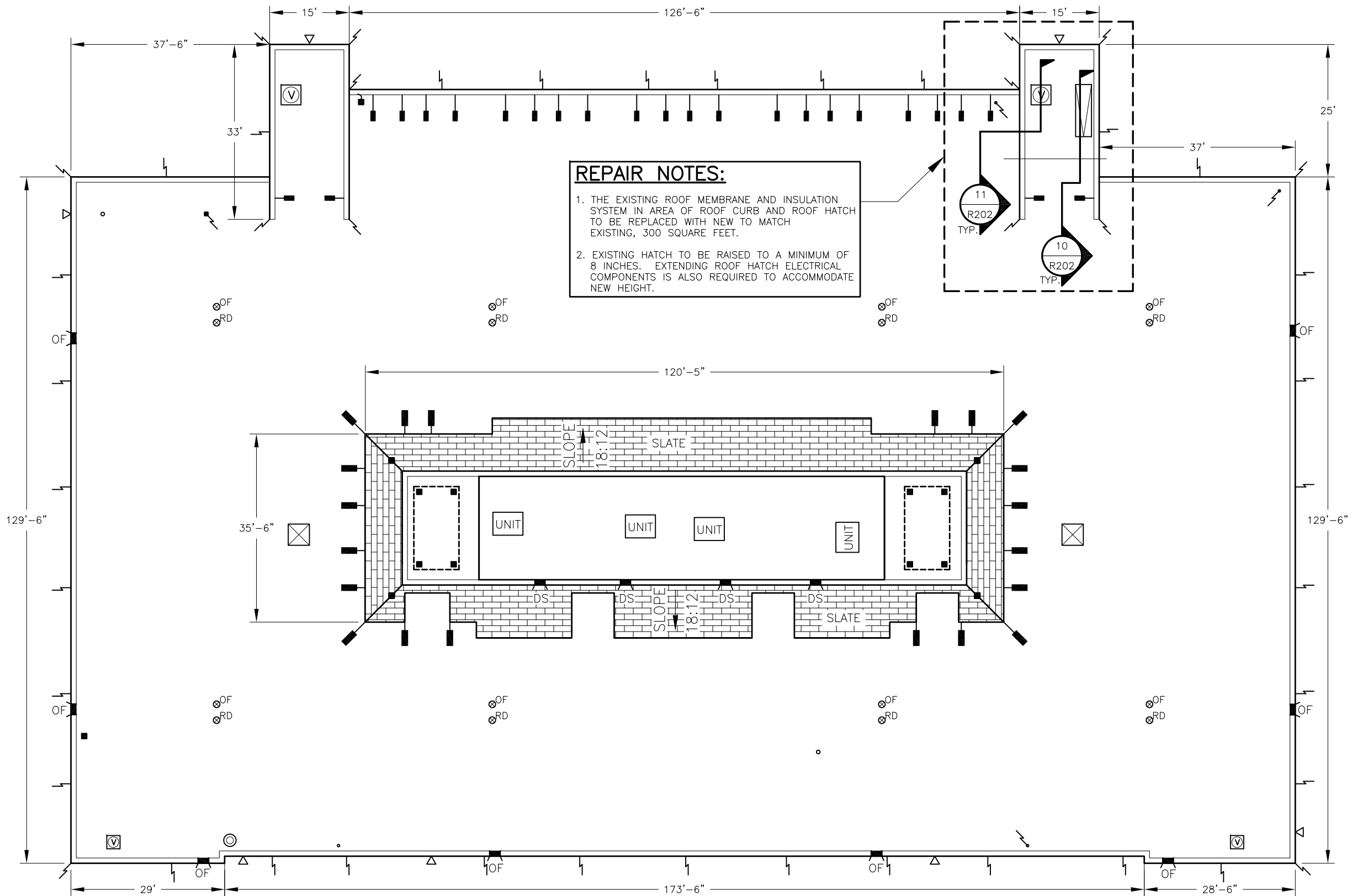
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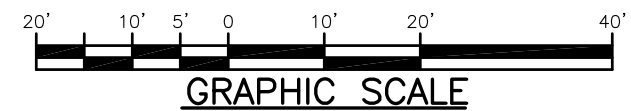
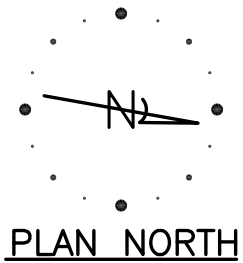
**EXISTING ROOF  
PLAN**

**R103**  
SHEET 3 OF 14

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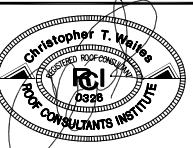
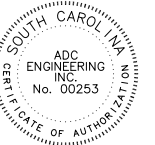


**EXISTING ROOF PLAN  
LIBRARY**



**USC UPSTATE ROOF REPAIRS**  
STATE PROJECT NUMBER: H344366  
ADC PROJECT NUMBER: 13021

800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA



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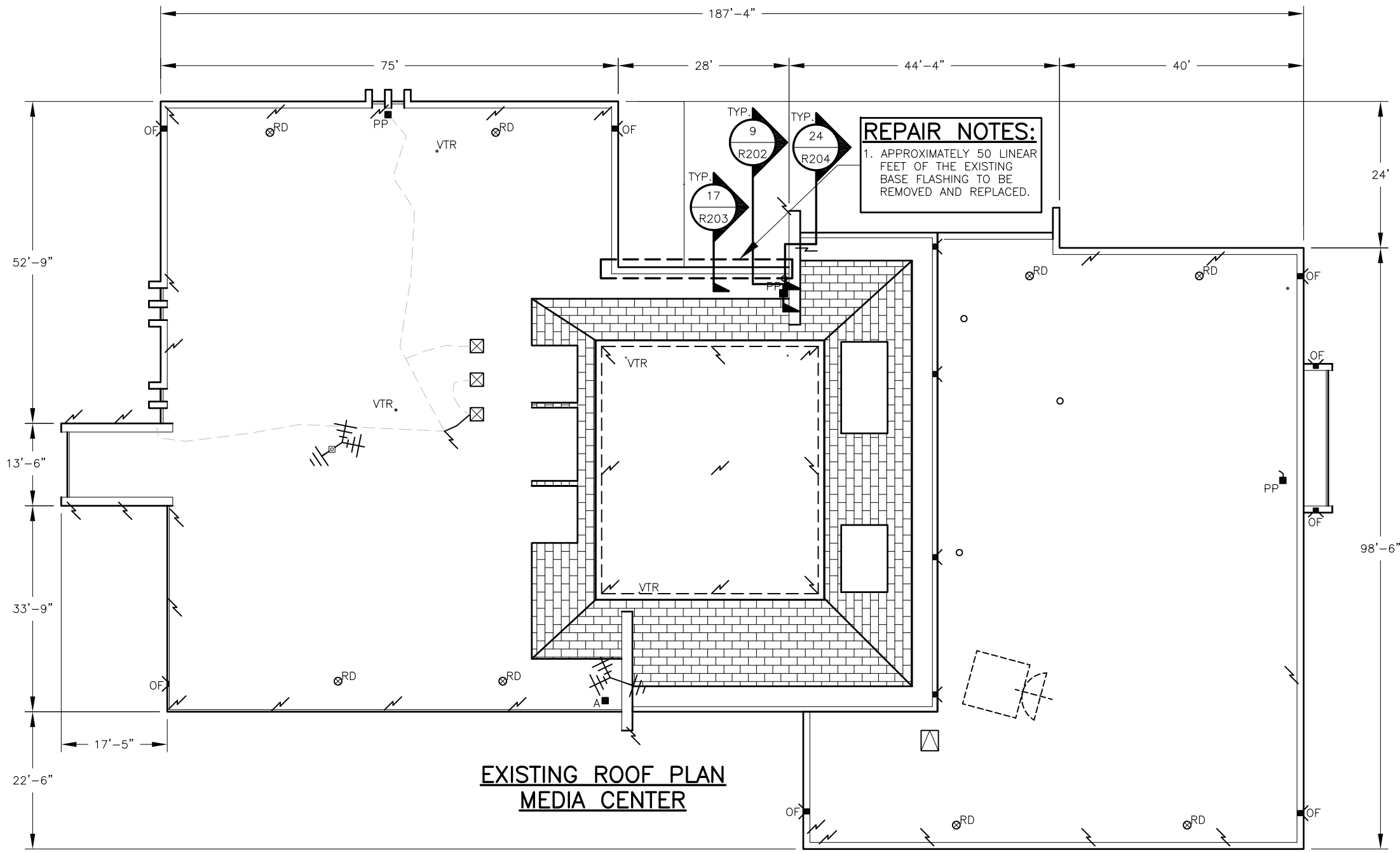
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**EXISTING ROOF PLAN**

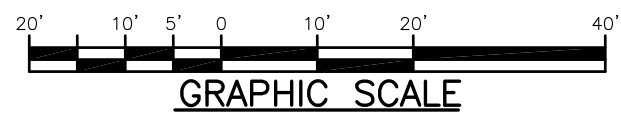
**R104**

SHEET 4 OF 14

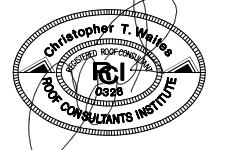
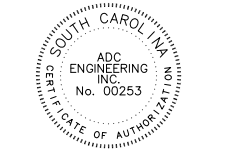
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**EXISTING ROOF PLAN  
MEDIA CENTER**



**USC UPSTATE ROOF REPAIRS**  
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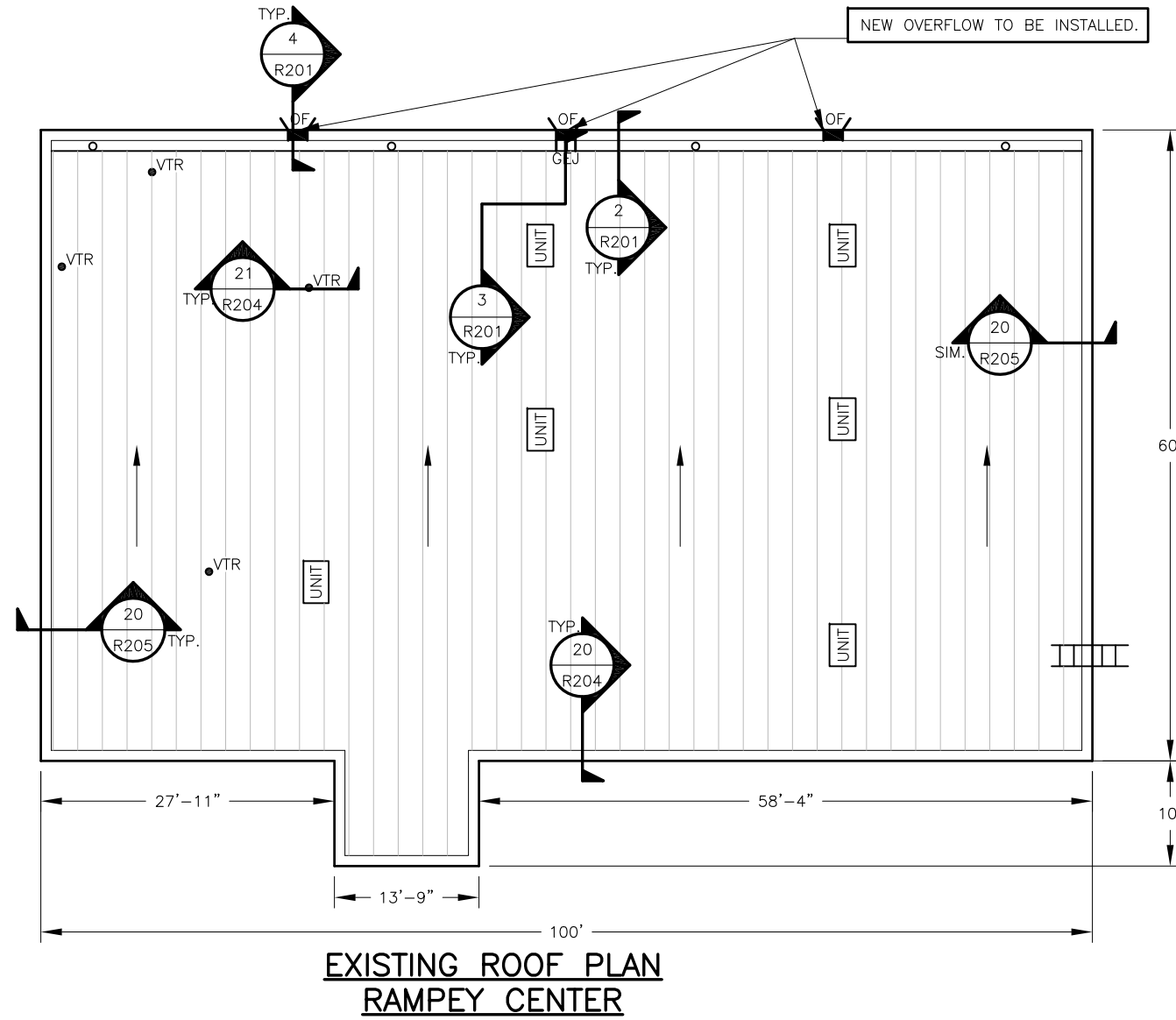
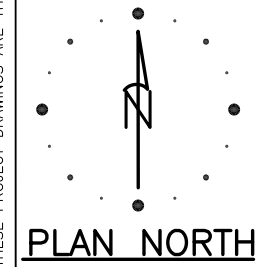
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**EXISTING ROOF  
PLAN**

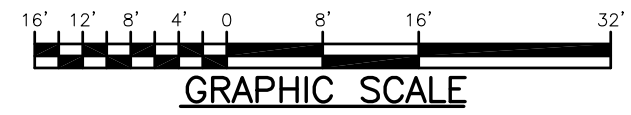
**R105**

SHEET 5 OF 14

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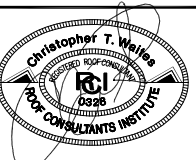
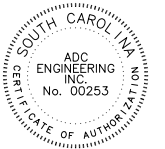
- REPAIR NOTES:**
1. EXISTING BUILT-IN GUTTER TO RE-MOVED AND REPLACED.
  2. EXISTING COPING TO BE REMOVED AND NEW COPING TO BE INSTALLED.
  3. EXISTING VTR FLASHINGS TO BE REMOVED AND NEW FLASHINGS TO BE INSTALLED.



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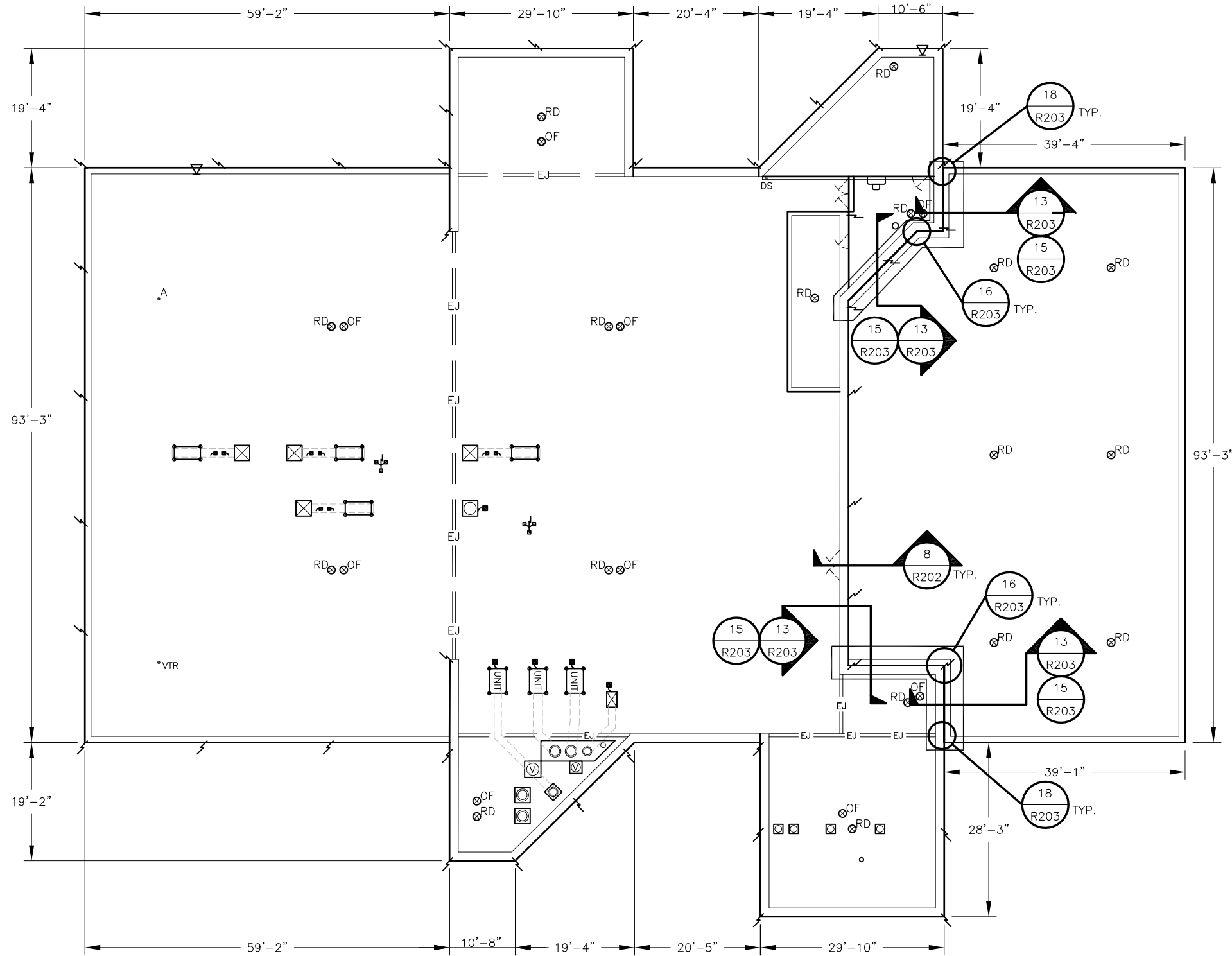
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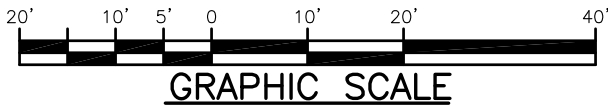
EXISTING ROOF PLAN

**R106**  
SHEET 6 OF 14

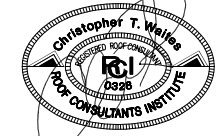
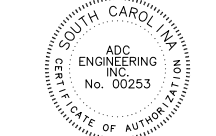
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**EXISTING ROOF PLAN  
SMITH SCIENCE BUILDING**



**USC UPSTATE ROOF REPAIRS**  
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 800 UNIVERSITY WAY  
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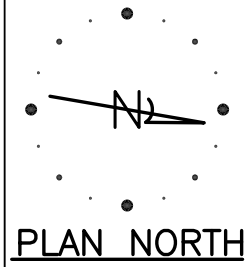
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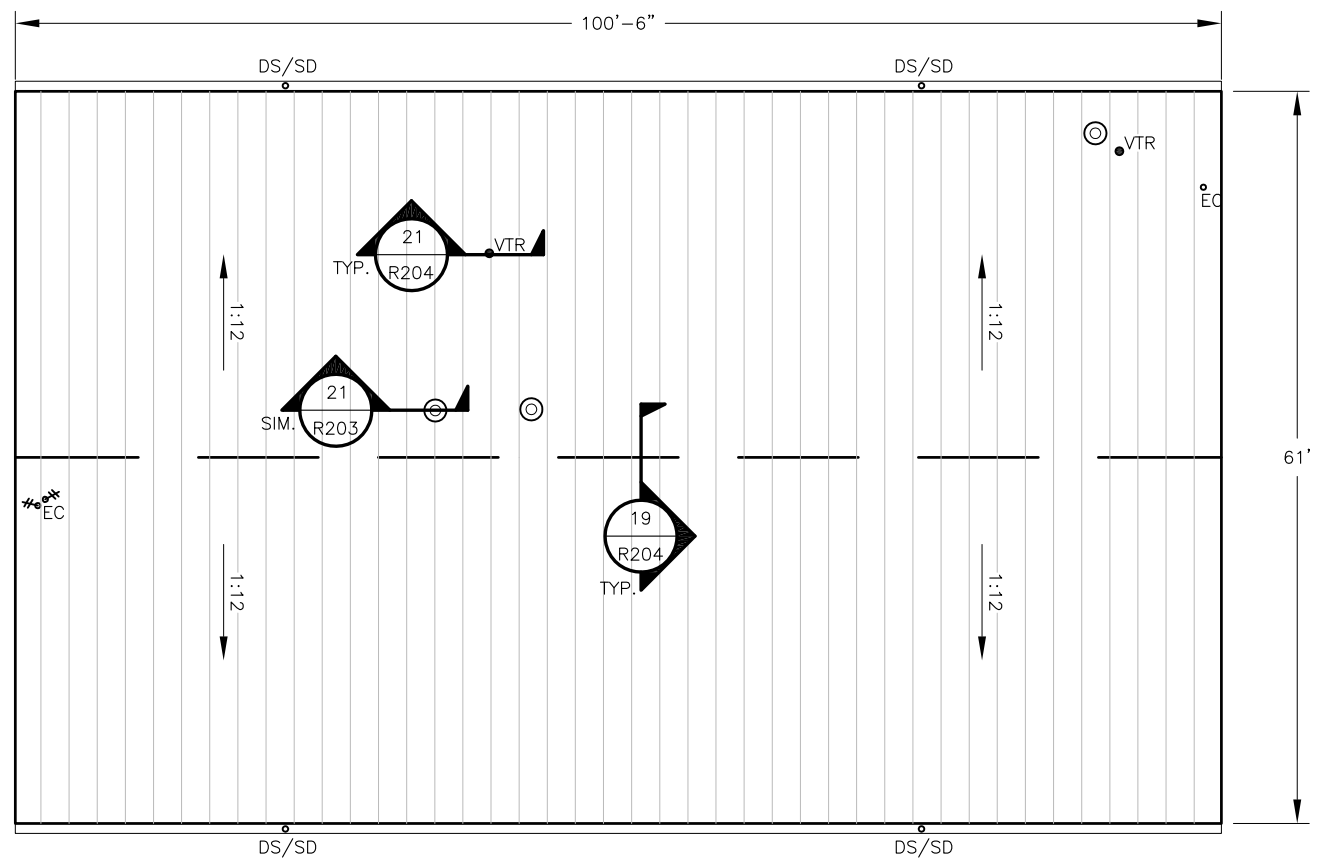
**EXISTING ROOF PLAN**

**R107**  
 SHEET 7 OF 14

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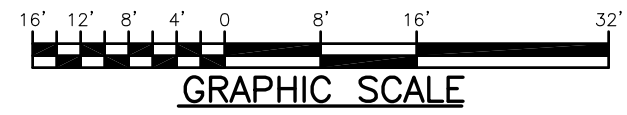
PLAN NORTH



**EXISTING ROOF PLAN  
UNIVERSITY PUBLIC SAFETY**

**REPAIR NOTES:**

1. ALL LOOSE OR MISSING FASTENERS TO BE REPLACED WITH NEW STAINLESS STEEL GASKETED FASTENERS, ONE SIZE LARGER THAN EXISTING.



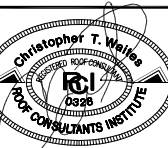
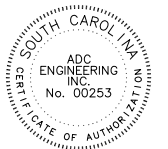
CONSTRUCTION DOCUMENTS

**USC UPSTATE ROOF REPAIRS**

STATE PROJECT NUMBER: H344366

ADC PROJECT NUMBER: 13021

800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA



**ADC**  
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REVISION:	

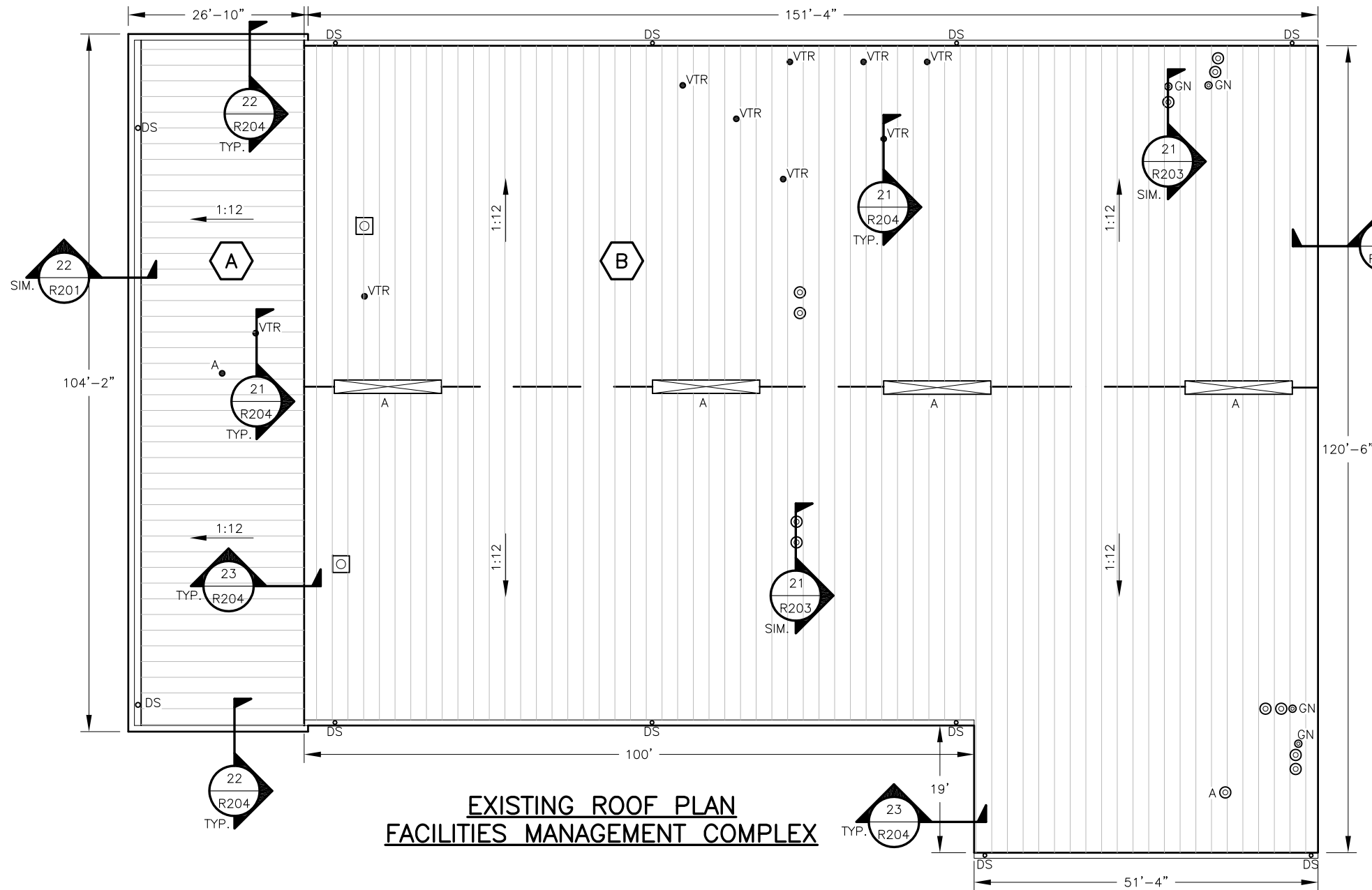
**EXISTING ROOF PLAN**

**R108**

SHEET 8 OF 14



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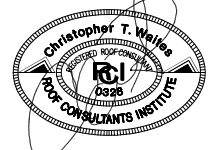
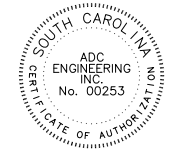


**EXISTING ROOF PLAN  
FACILITIES MANAGEMENT COMPLEX**

- REPAIR NOTES:**
1. EXISTING ROOF SYSTEM TO BE CLEAN, DRY, PRIMED, BEFORE NE COATING SYSTEM IS INSTALLED
  2. EXISTING COPING SYSTEM ON LOWER ROOF AREA TO BE REMOVED AND REPLACED.
  3. ALL LOOSE OR MISSING FASTENERS TO BE REPLACED WITH NEW STAINLESS STEEL GASKETED FASTENERS, ONE SIZE LARGER THAN EXISTING.
  4. EXISTING VTR FLASHINGS TO BE REMOVED AND NEW FLASHINGS TO BE INSTALLED.

**USC UPSTATE ROOF REPAIRS**  
STATE PROJECT NUMBER: H344366  
ADC PROJECT NUMBER: 13021

800 UNIVERSITY WAY  
SPARTANBURG, SOUTH CAROLINA

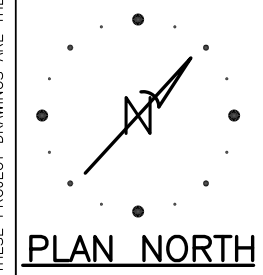
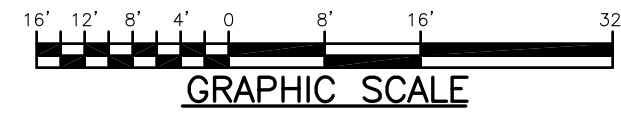


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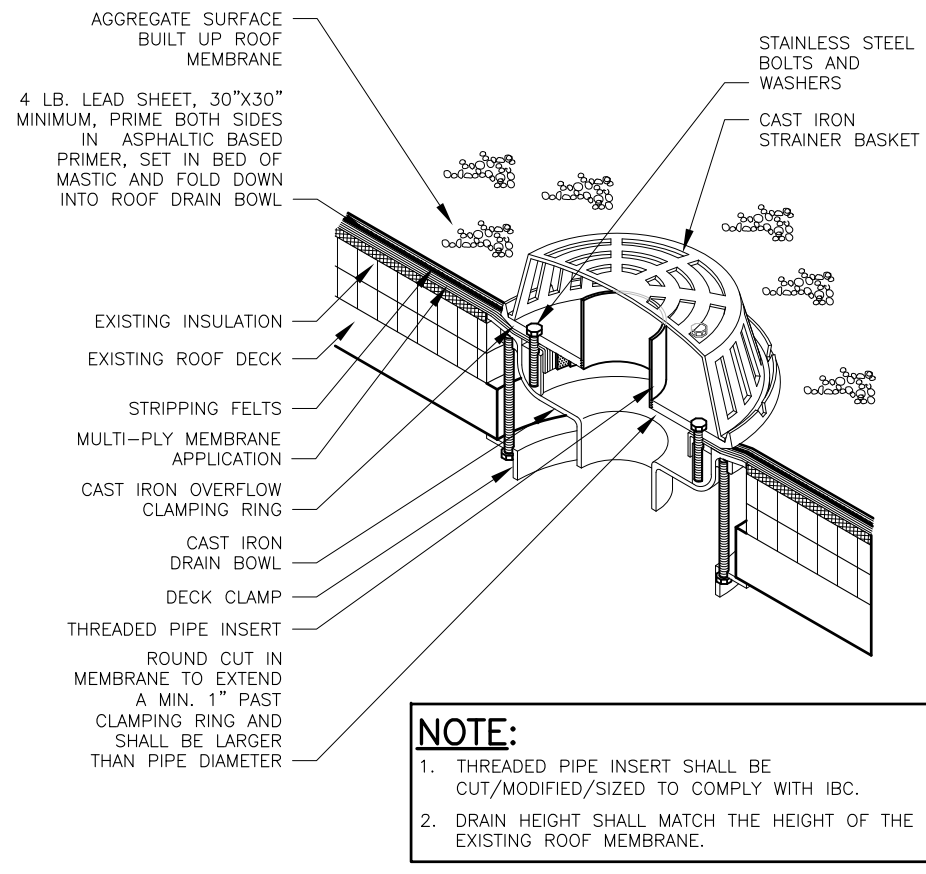
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**EXISTING ROOF PLAN**



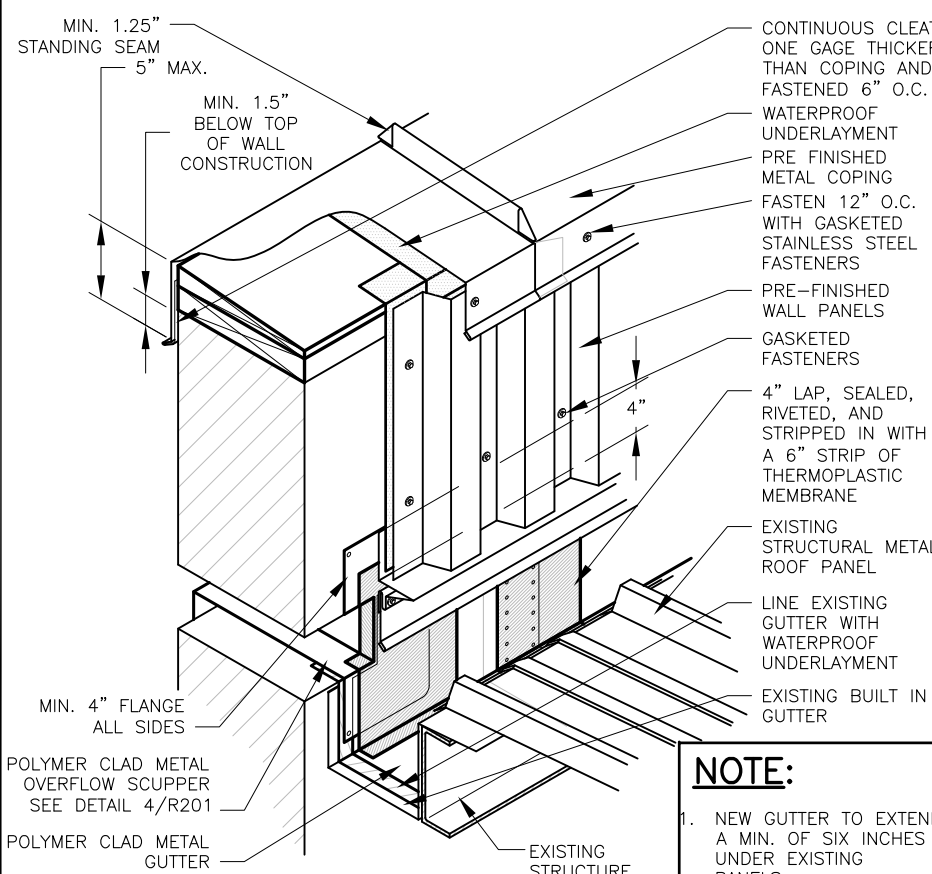
**R109**  
SHEET 9 OF 14

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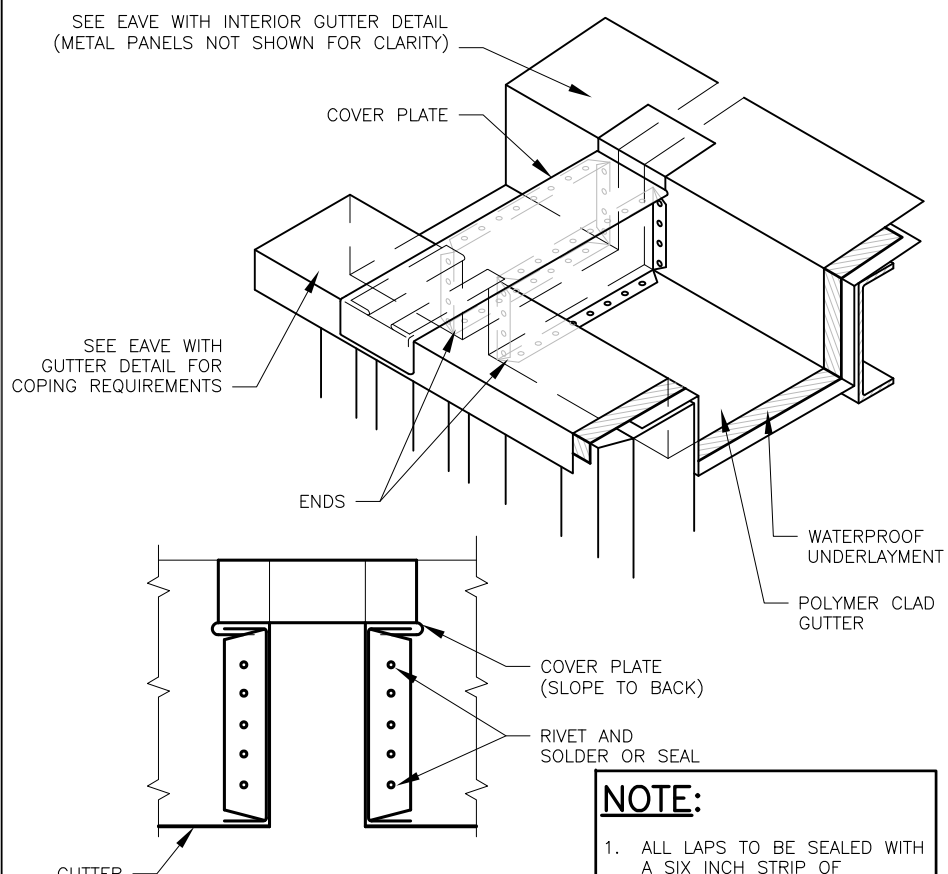
**NOTE:**  
 1. THREADED PIPE INSERT SHALL BE CUT/MODIFIED/SIZED TO COMPLY WITH IBC.  
 2. DRAIN HEIGHT SHALL MATCH THE HEIGHT OF THE EXISTING ROOF MEMBRANE.

**1 OVERFLOW ROOF DRAIN**  
 R201 NOT TO SCALE (TYPICAL)



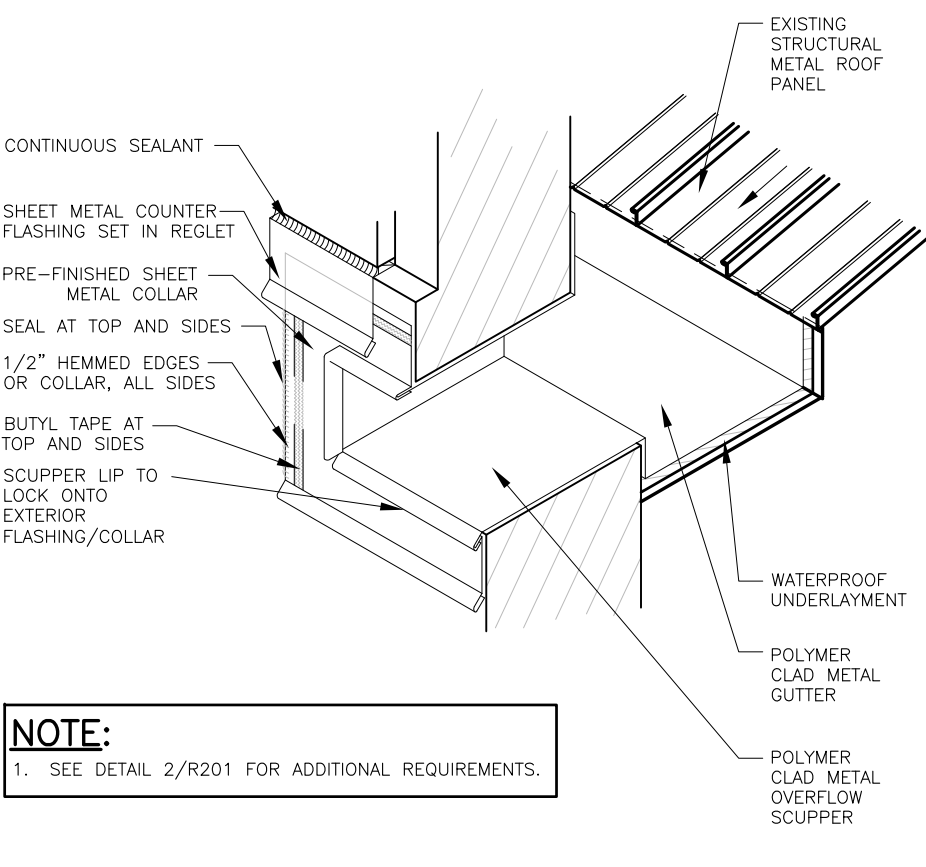
**NOTE:**  
 1. NEW GUTTER TO EXTEND A MIN. OF SIX INCHES UNDER EXISTING PANELS.

**2 INTERIOR GUTTER AT PARAPET**  
 R201 NOT TO SCALE (TYPICAL)



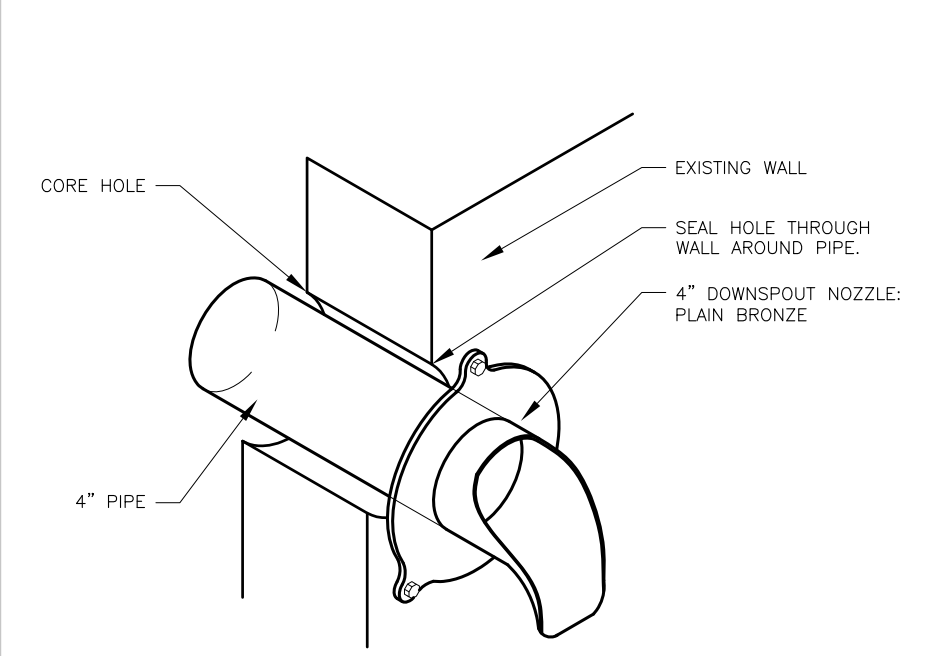
**NOTE:**  
 1. ALL LAPS TO BE SEALED WITH A SIX INCH STRIP OF THERMOPLASTIC MEMBRANE.

**3 GUTTER EXPANSION JOINT**  
 R201 NOT TO SCALE (TYPICAL)



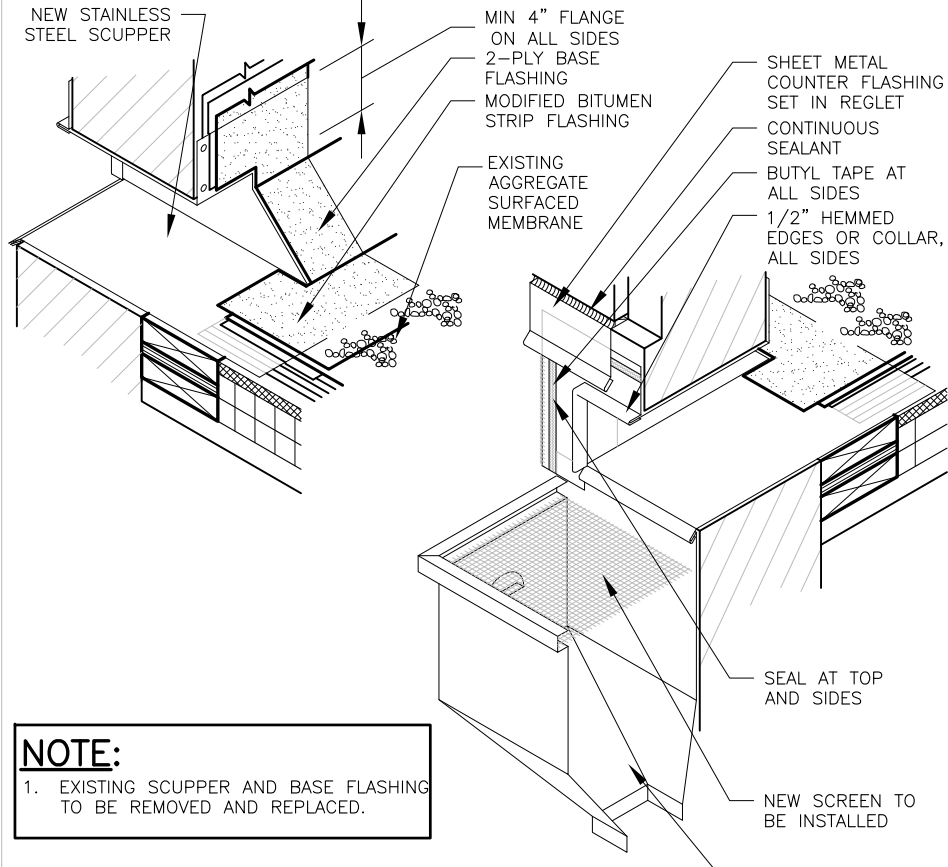
**NOTE:**  
 1. SEE DETAIL 2/R201 FOR ADDITIONAL REQUIREMENTS.

**4 OVERFLOW SCUPPER**  
 R201 NOT TO SCALE (TYPICAL)



**NOTE:**  
 1. CORING EXISTING WALL IS REQUIRED TO ACCOMMODATE DETAIL.  
 2. LENGTH OF PIPE SHALL BE FABRICATED TO ENSURE DOWNSPOUT NOZZLE/ FACEPLATE RESTS FIRMLY AGAINST EXTERIOR FACE OF WALL.

**5 DOWNSPOUT NOZZLE**  
 R201 NOT TO SCALE (TYPICAL)

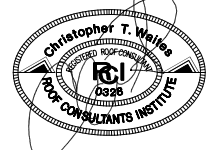
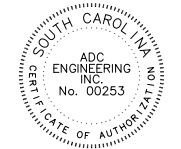


**NOTE:**  
 1. EXISTING SCUPPER AND BASE FLASHING TO BE REMOVED AND REPLACED.

**6 DRAIN SCUPPER**  
 R201 NOT TO SCALE (TYPICAL)

**USC UPSTATE ROOF REPAIRS**  
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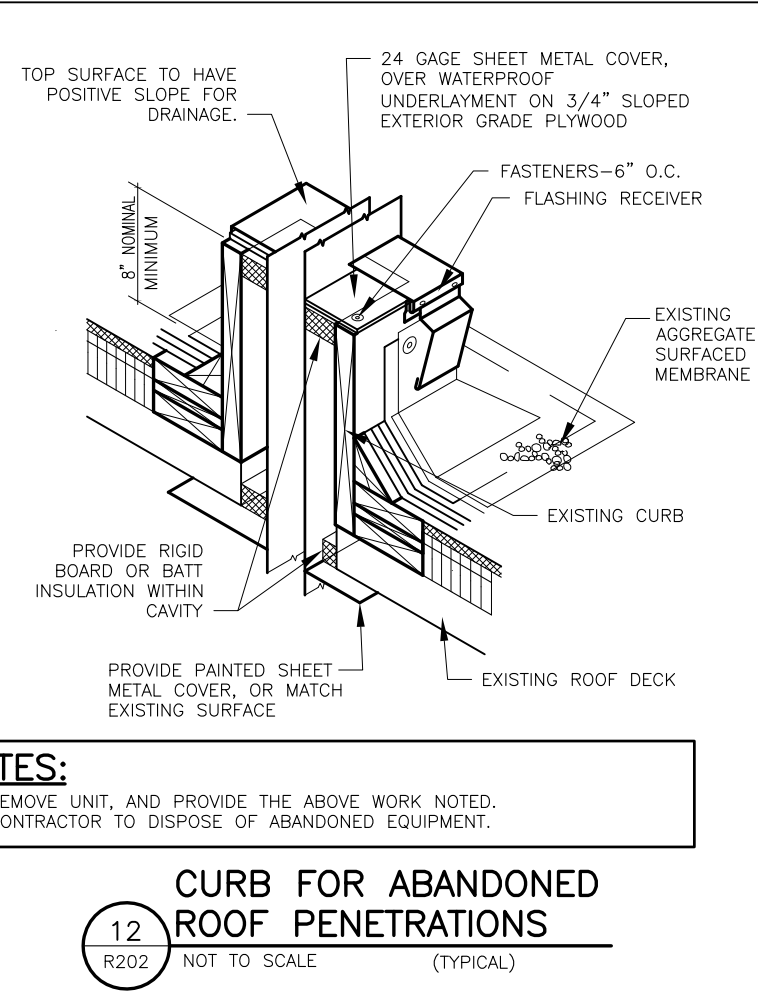
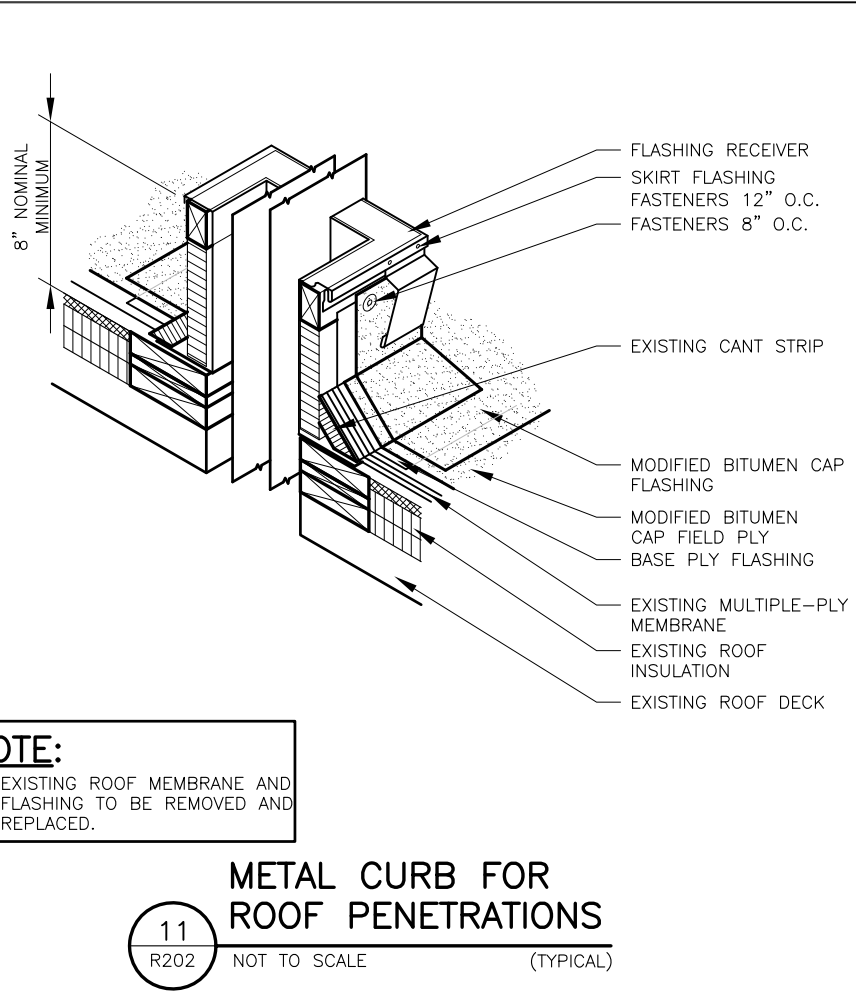
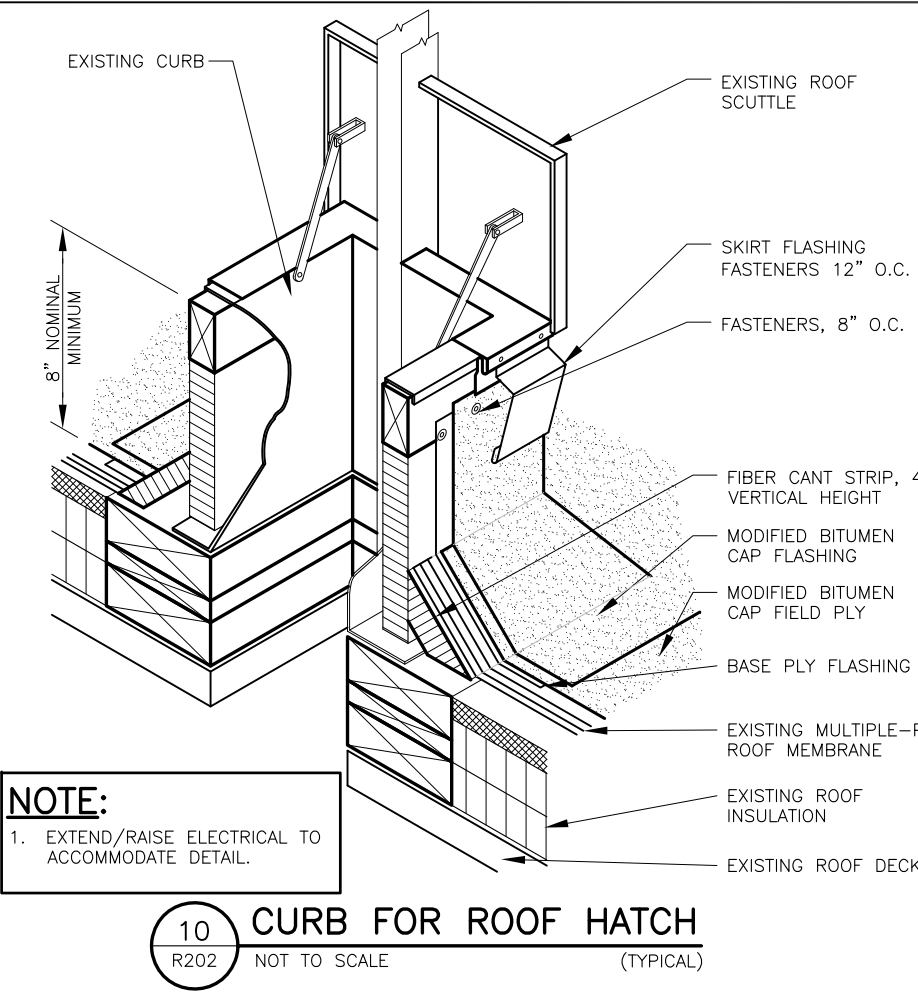
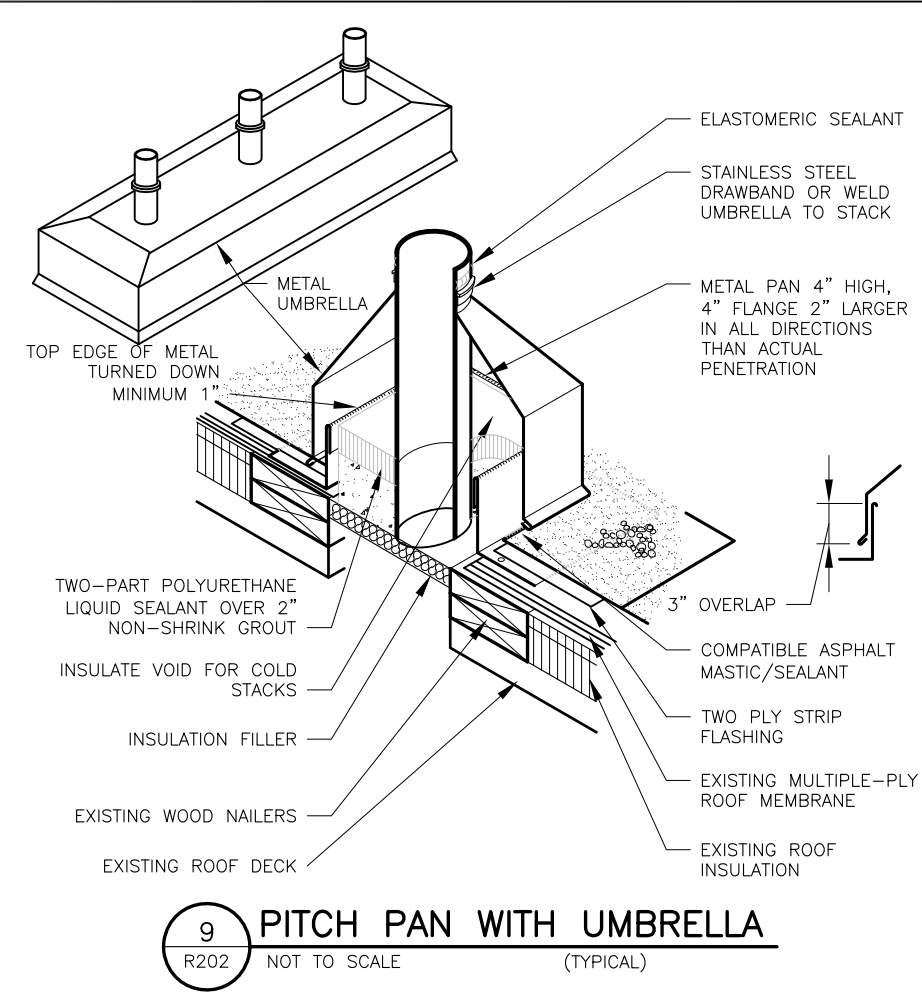
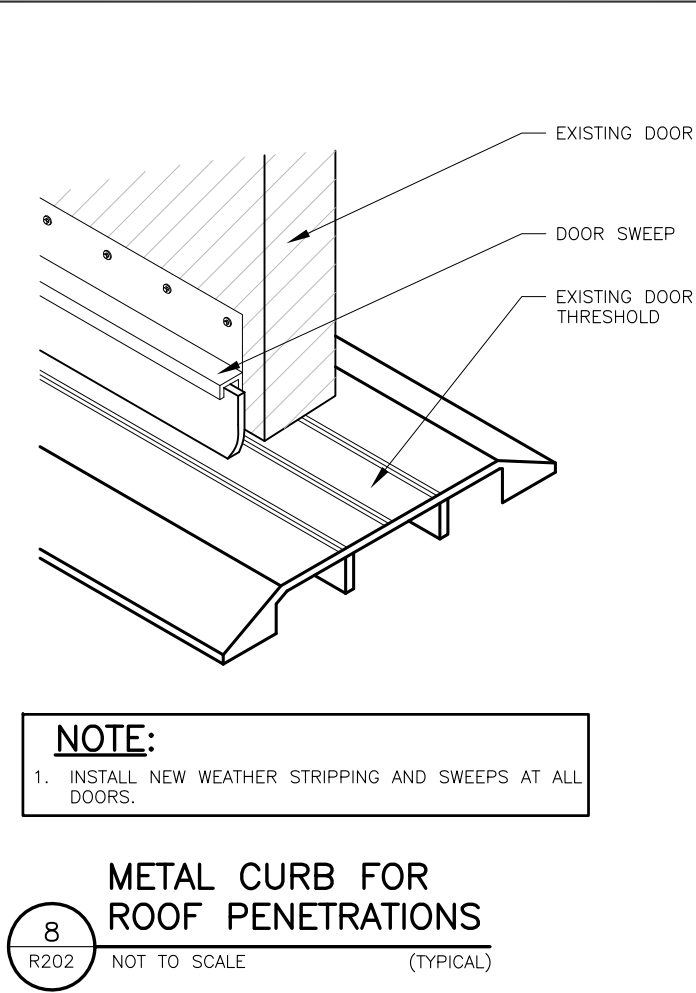
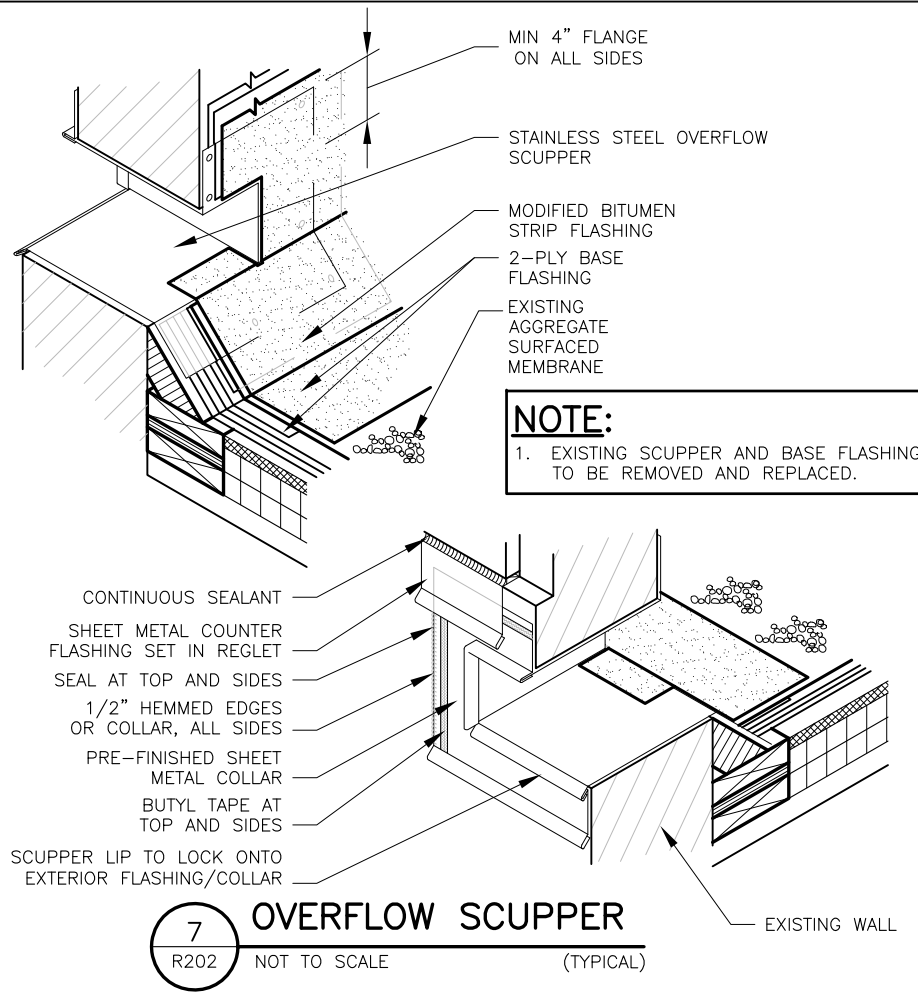
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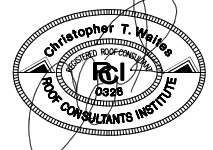
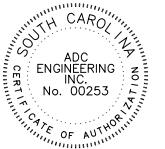
**R201**  
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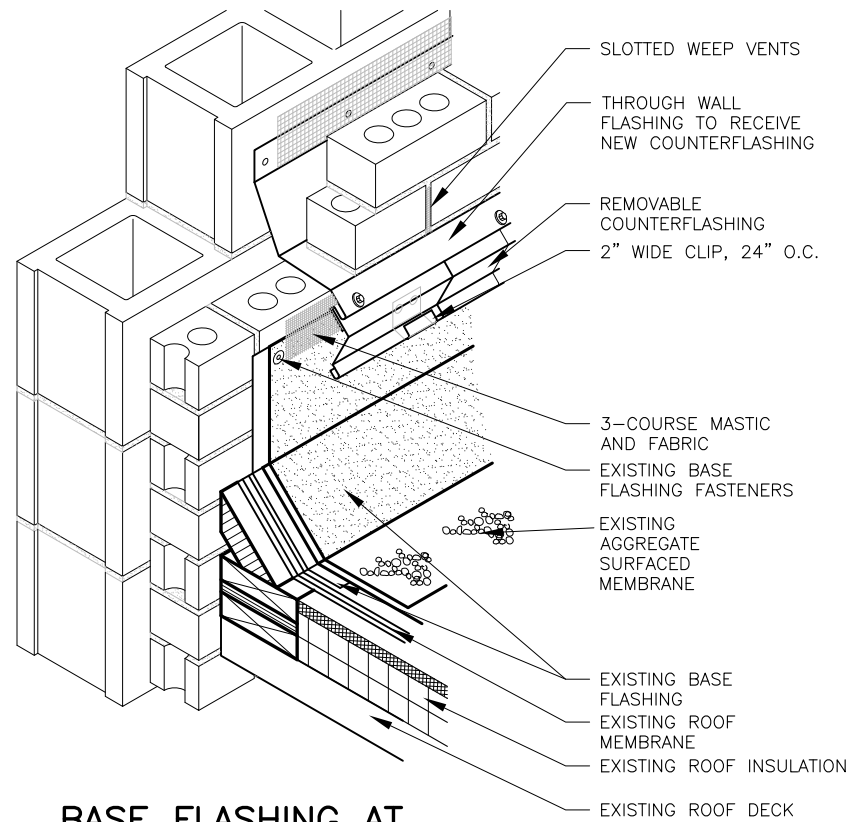
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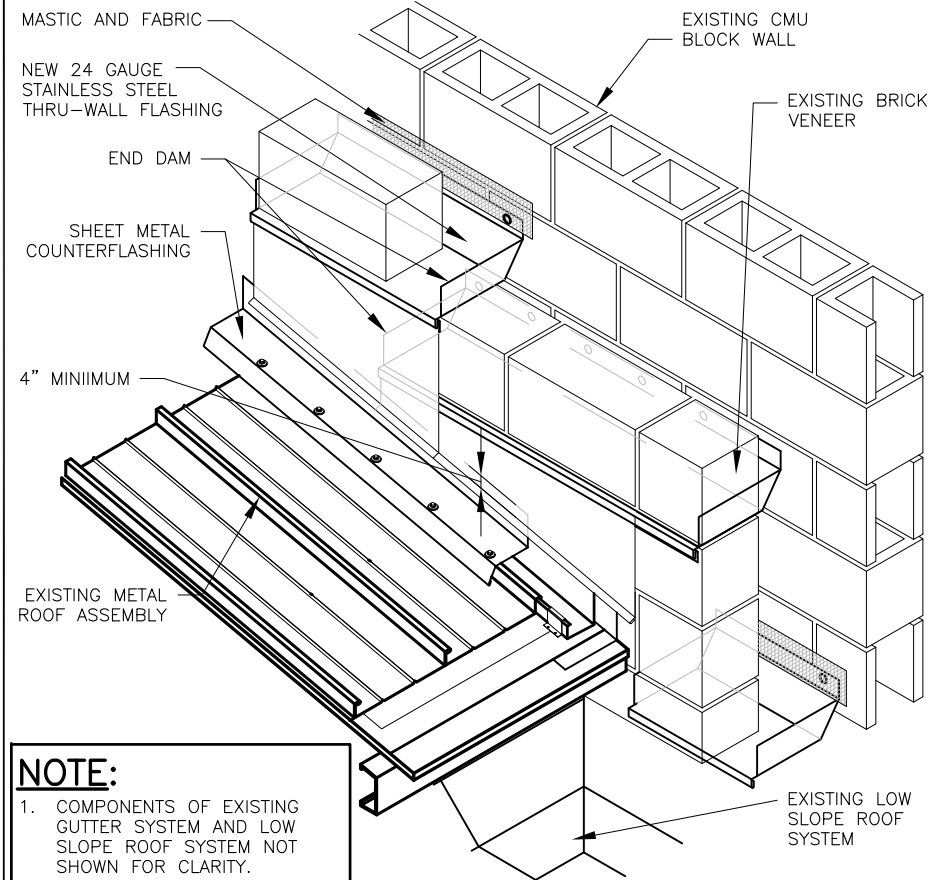
**DETAILS/  
SECTIONS**

**R202**  
SHEET 11 OF 14

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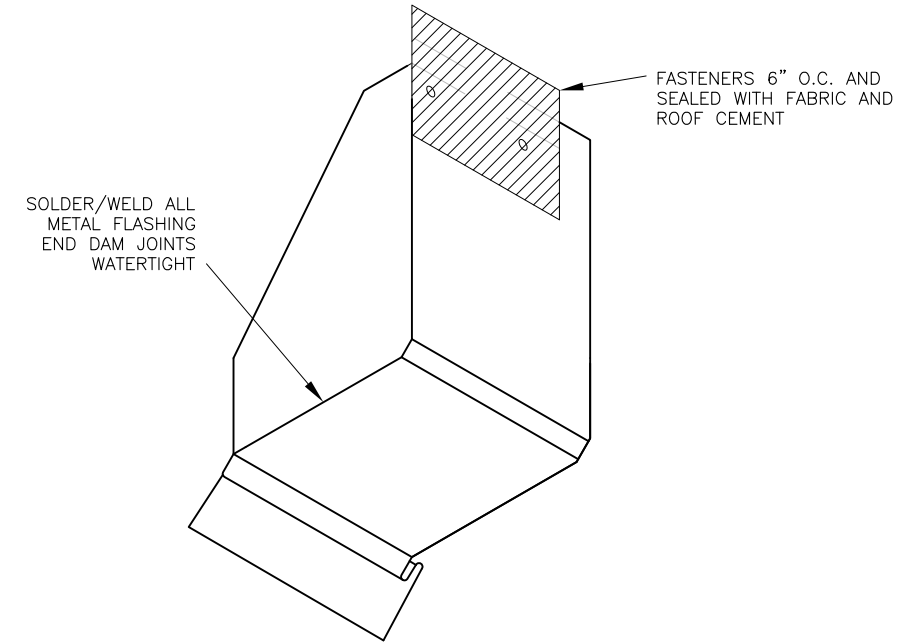
**13**  
R203 NOT TO SCALE (TYPICAL)  
**BASE FLASHING AT MASONRY WITH THROUGH WALL**



**NOTE:**

1. COMPONENTS OF EXISTING GUTTER SYSTEM AND LOW SLOPE ROOF SYSTEM NOT SHOWN FOR CLARITY.

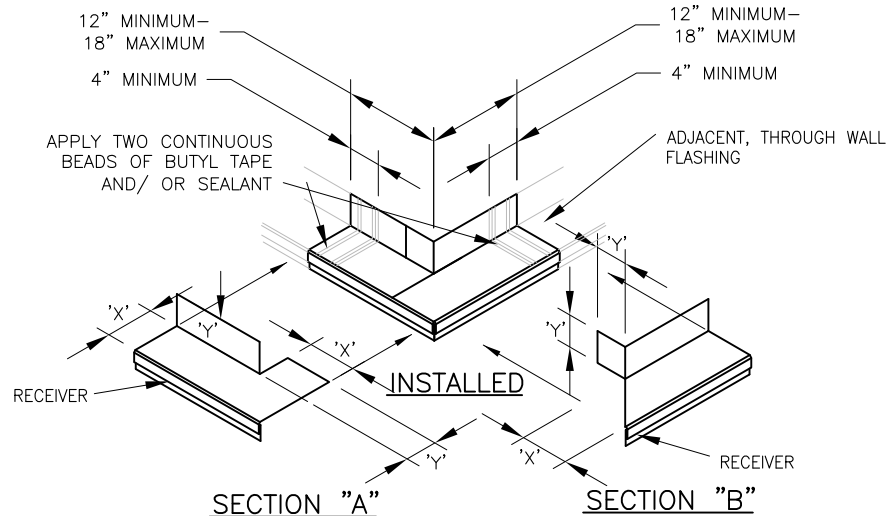
**14**  
R203 NOT TO SCALE (TYPICAL)  
**STEP FLASHING AT SIDEWALL**



**NOTE:**

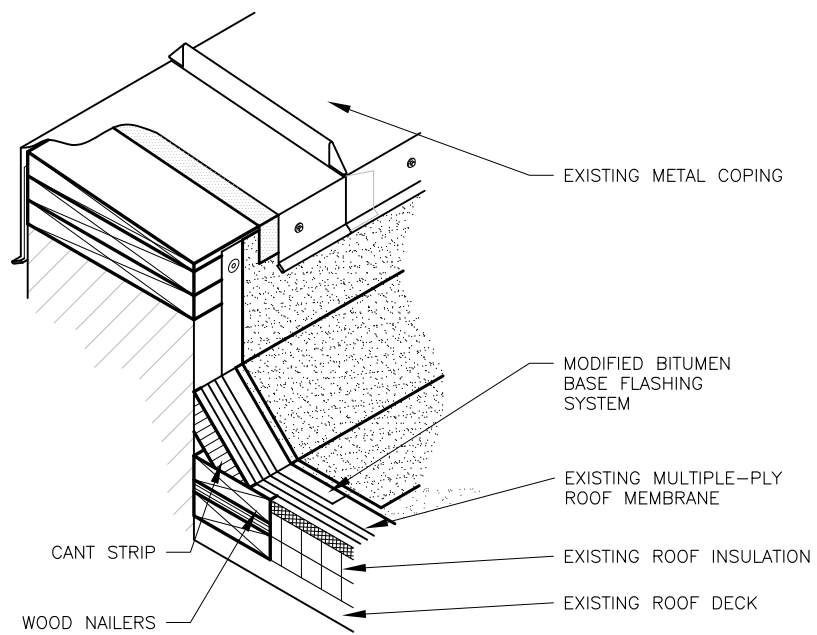
1. INSTALL END DAM AT ALL FLASHING TERMINATIONS.

**15**  
R203 NOT TO SCALE (TYPICAL)  
**END DAM**



- STEP 1.**  
FIELD VERIFY EXISTING WALL CONDITIONS AND MEASUREMENTS FOR PROPER FABRICATION.
- STEP 2.**  
FABRICATE BOTH SECTIONS "A" AND "B". ALL LAPS SHALL BE CONTINUOUSLY SOLDERED/WELDED WATERTIGHT.
- STEP 3.**  
INSTALL REMAINING ADJACENT THROUGH WALL FLASHING. LAP METALS A MINIMUM OF 4" WITH 2 CONTINUOUS BEADS OF BUTYL TAPE/SEALANT PRESENT BETWEEN METALS AT THE HORIZONTAL AND VERTICAL LEGS OF THE LAP.
- STEP 4.**  
INSTALL A 3-COURSE FABRIC AND MASTIC APPLICATION ALONG THE TOP EDGE OF THE FLASHING AT THE BACKUP WALL. IN ACCORDANCE WITH THE THROUGH WALL FLASHING DETAIL.

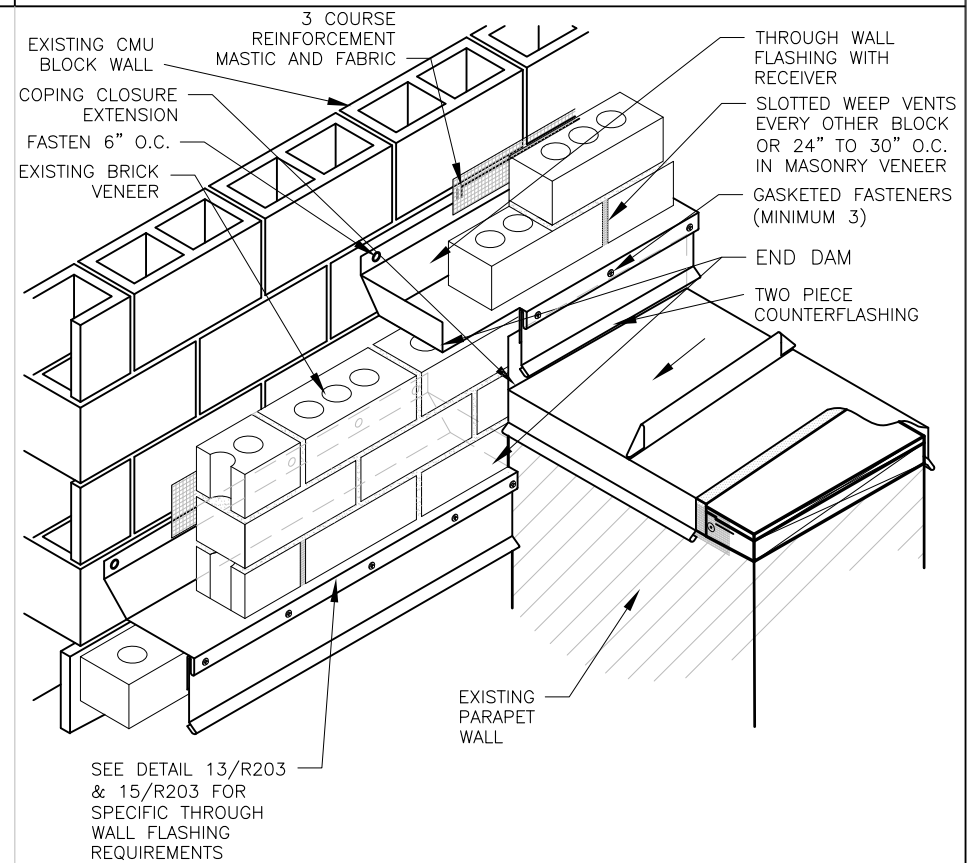
**16**  
R203 NOT TO SCALE (TYPICAL)  
**FABRICATED THROUGH WALL FLASHING CORNER WITH RECEIVER**



**NOTE:**

1. EXISTING BASE FLASHING TO BE REMOVED AND REPLACED.  
2. HEIGHT OF WALL VARIES.

**17**  
R203 NOT TO SCALE (TYPICAL)  
**BASE FLASHING AT PARAPET**

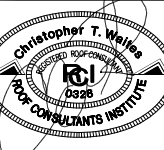
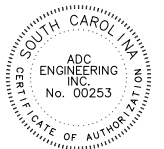


SEE DETAIL 13/R203 & 15/R203 FOR SPECIFIC THROUGH WALL FLASHING REQUIREMENTS

**18**  
R203 NOT TO SCALE (TYPICAL)  
**THROUGH-WALL FLASHING AT PARAPET TERMINATION**

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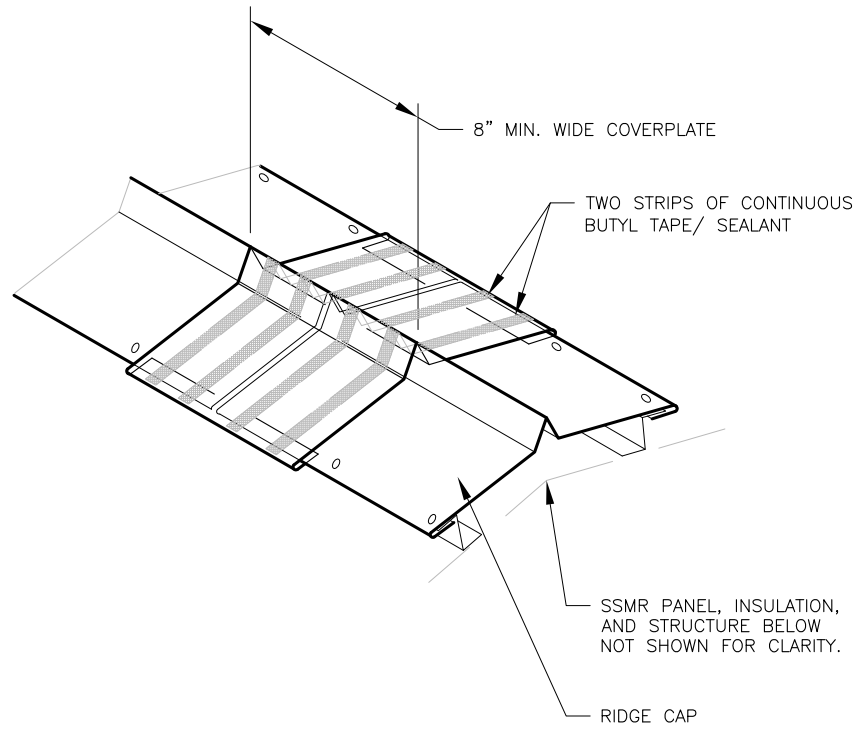
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**DETAILS/  
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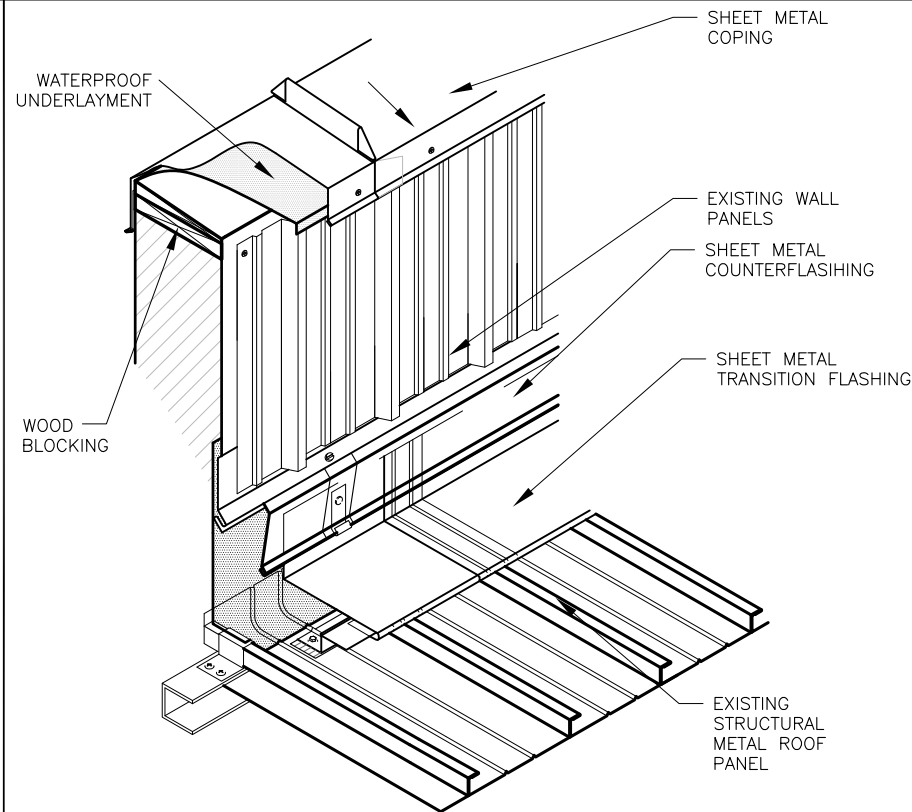
**R203**

SHEET 12 OF 14

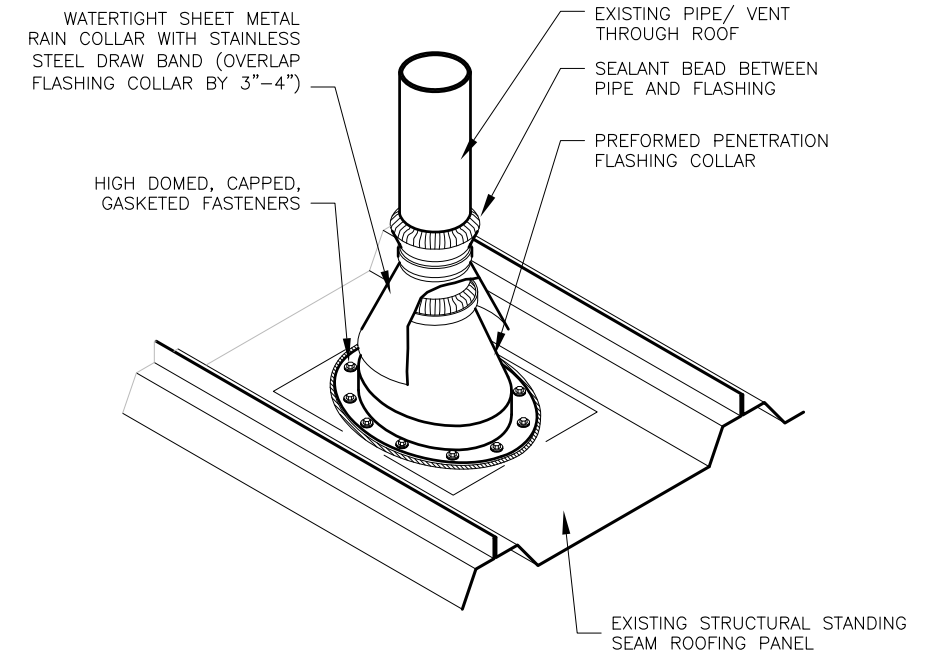
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**19 COVER PLATE DETAIL**  
R204 NOT TO SCALE (TYPICAL)

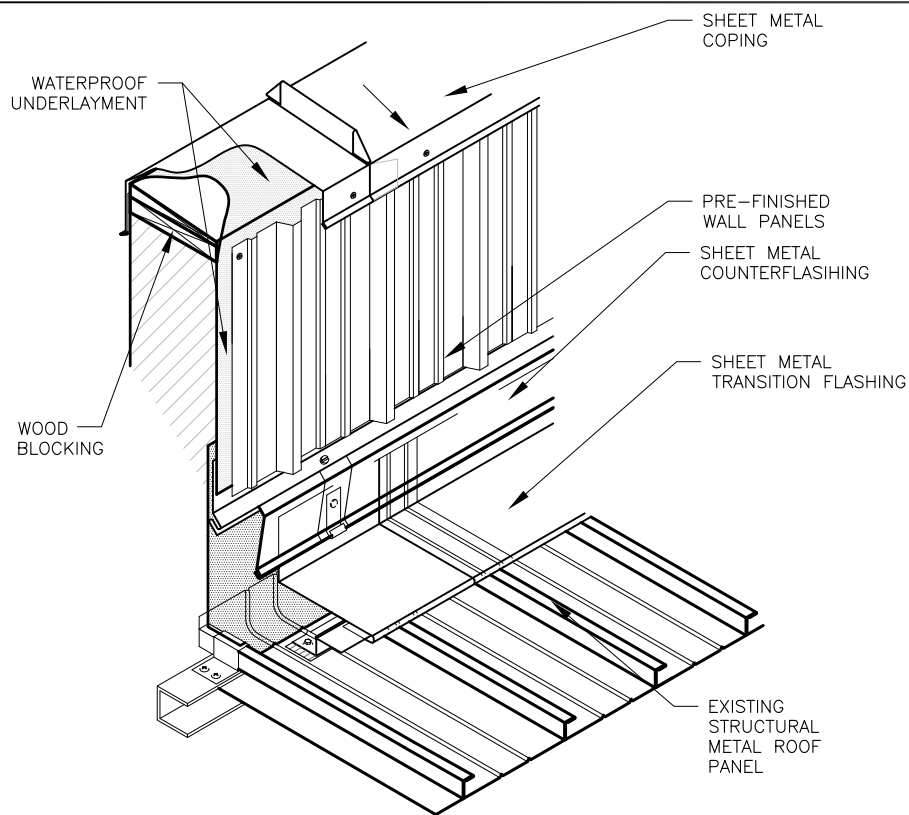


**20 ROOF TO PARAPET WALL TRANSITION**  
R204 NOT TO SCALE (TYPICAL)



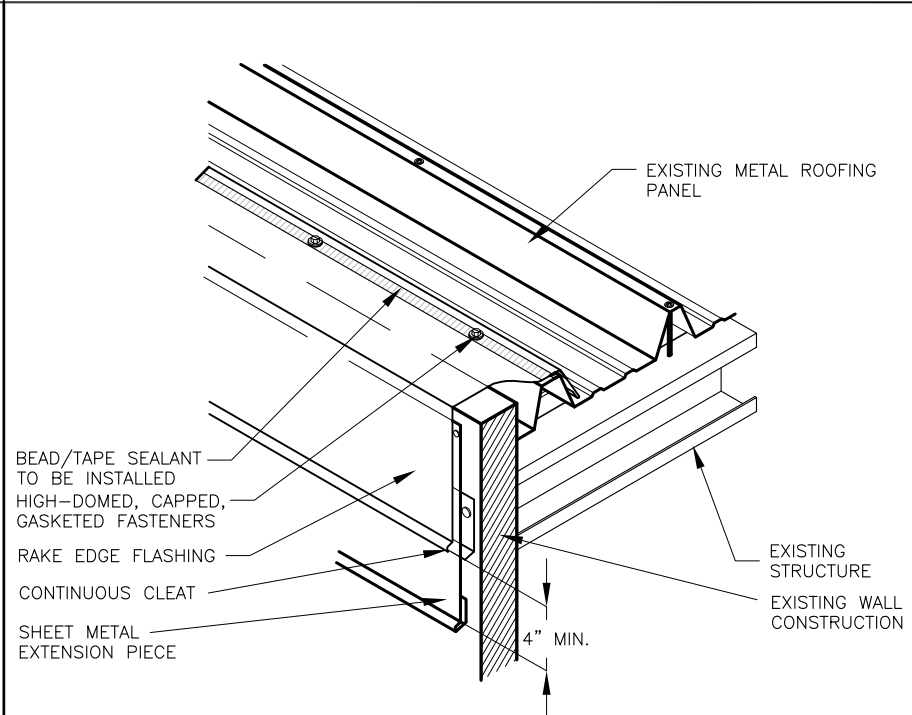
**NOTES**  
1. PREFORMED FLASHING COLLAR TO BE LARGE ENOUGH TO COVER HOLES IN PANELS FROM EXISTING FLASHINGS.

**21 VENT/PIPE THROUGH ROOF**  
R204 NOT TO SCALE (TYPICAL)

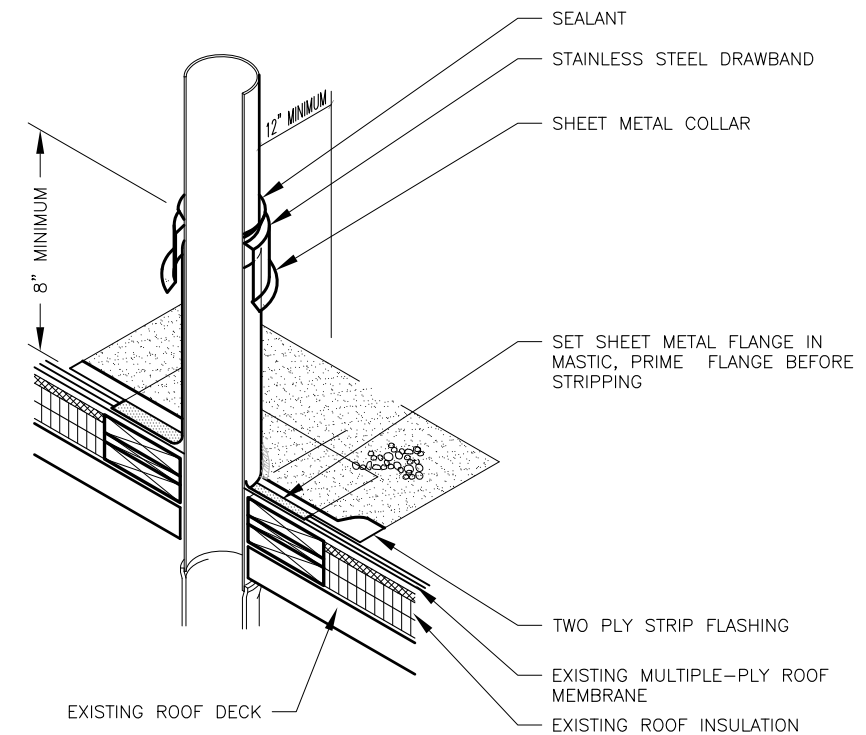


**NOTE:**  
1. ATTACH PRE-FINISHED WALL PANELS TO EXISTING SUBSTRATE.

**22 HEAD CLOSURE AT WALL**  
R204 NOT TO SCALE (TYPICAL)



**23 RAKE EDGE FLASHING**  
R204 NOT TO SCALE (TYPICAL)

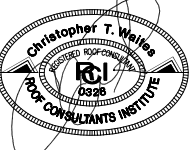
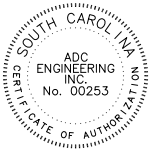


**NOTE:**  
1. SEE SMACNA FIGURE 4-15C, UMBRELLA DETAIL.

**24 PIPE PENETRATION**  
R204 NOT TO SCALE (TYPICAL)

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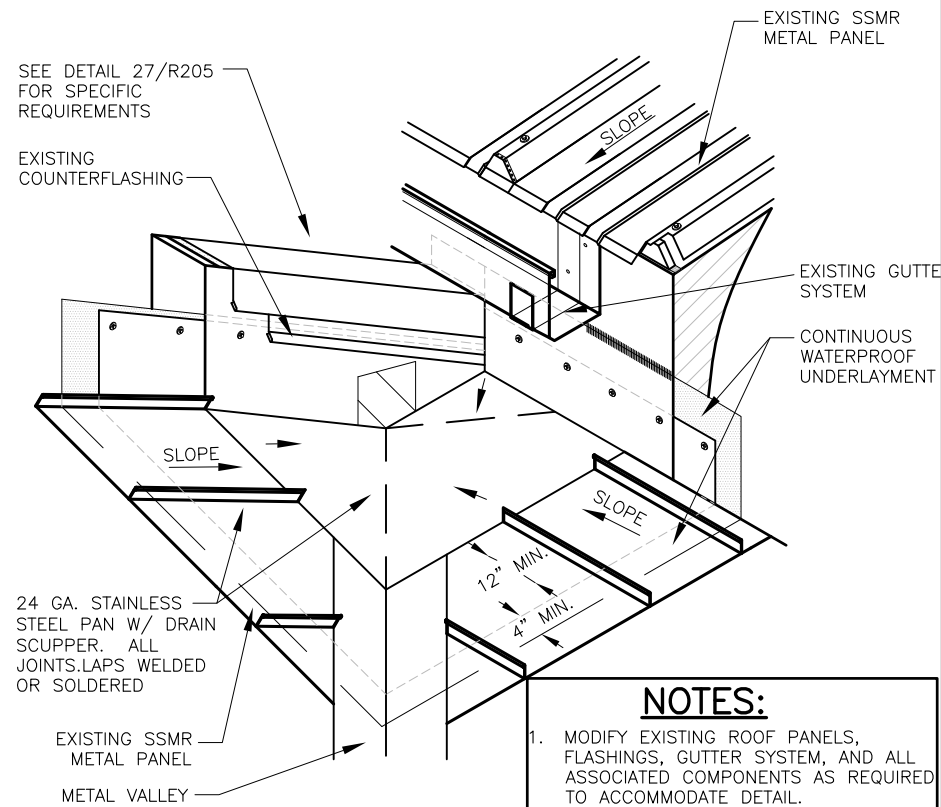
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**R204**  
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25  
R205 NOT TO SCALE (TYPICAL)

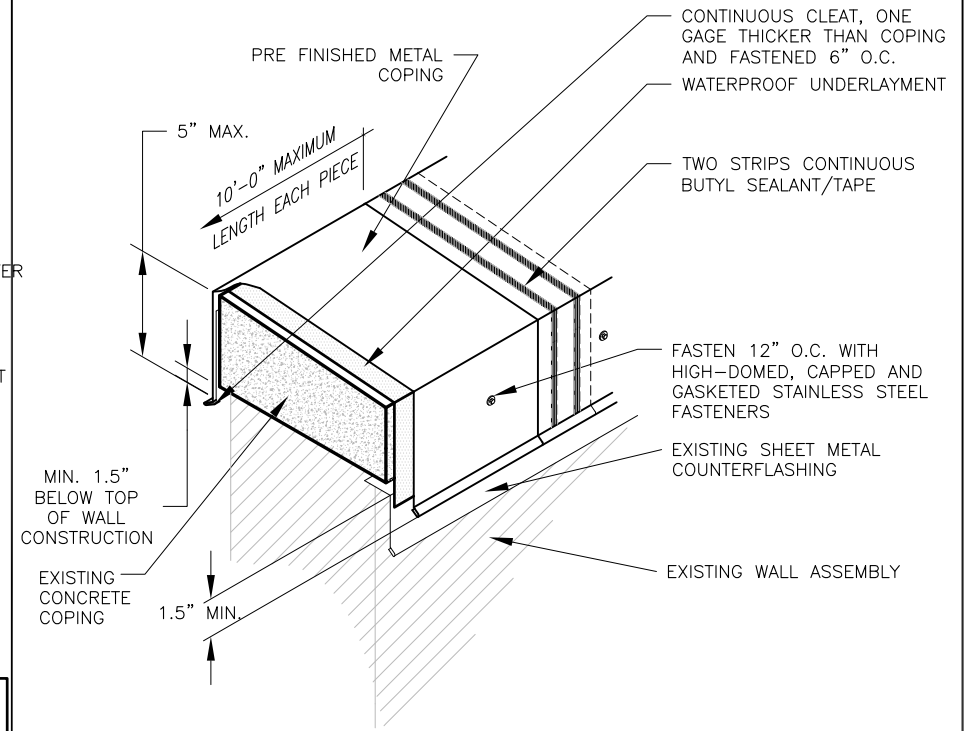


**ROOF TO WALL TRANSITION**

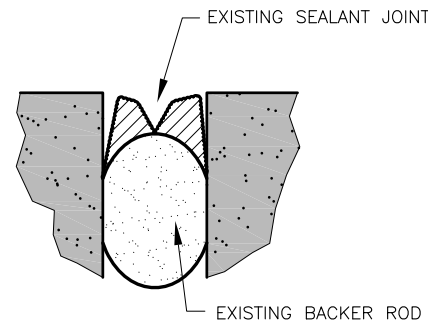
26  
R205 NOT TO SCALE (TYPICAL)

**NOTES:**

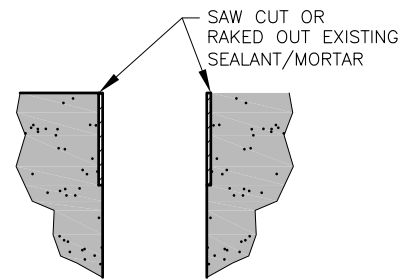
1. MODIFY EXISTING ROOF PANELS, FLASHINGS, GUTTER SYSTEM, AND ALL ASSOCIATED COMPONENTS AS REQUIRED TO ACCOMMODATE DETAIL.
2. LOCKING STRIP FOR EDGE OF ROOF PANELS AND VALLEY NOT SHOWN FOR CLARITY. RE-SECURE USING SAME METHOD OF ATTACHMENT.
3. METAL COPING TO BE TURNED UP A MINIMUM OF FOUR INCHES AND COUNTERFLASHING INSTALLED.



27 COPING DETAIL  
R205 NOT TO SCALE (TYPICAL)



**EXISTING STANDARD JOINT  
STEP ONE**

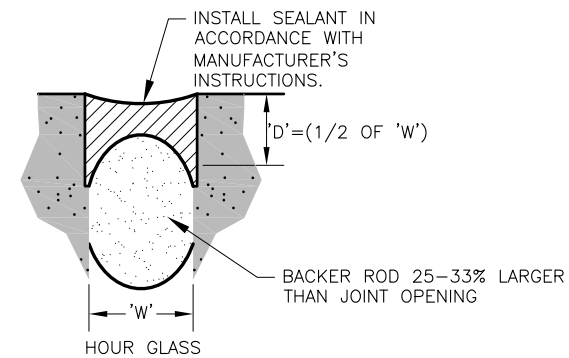


**PREPARE STANDARD JOINT  
STEP TWO**

**NOTES:**

1. A SEALANT IS NO BETTER THAN THE SURFACE TO WHICH IT IS ATTACHED. PROPER PREPARATION IS CRITICAL.
2. THE MANUFACTURERS INSTRUCTIONS MUST BE CAREFULLY FOLLOWED TO OBTAIN PROPER SEALANT ADHESION.
3. ADHERE TO THE JOINT DESIGN AND APPLICATION REQUIREMENTS.

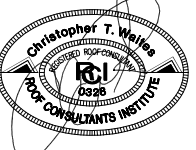
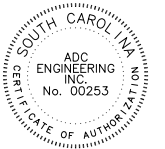
28  
R205 NOT TO SCALE (TYPICAL)



**PREPARED JOINT  
STEP THREE**

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**DETAILS/  
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**R205**  
SHEET 14 OF 14