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# ROOF REPLACEMENT / REPAIRS

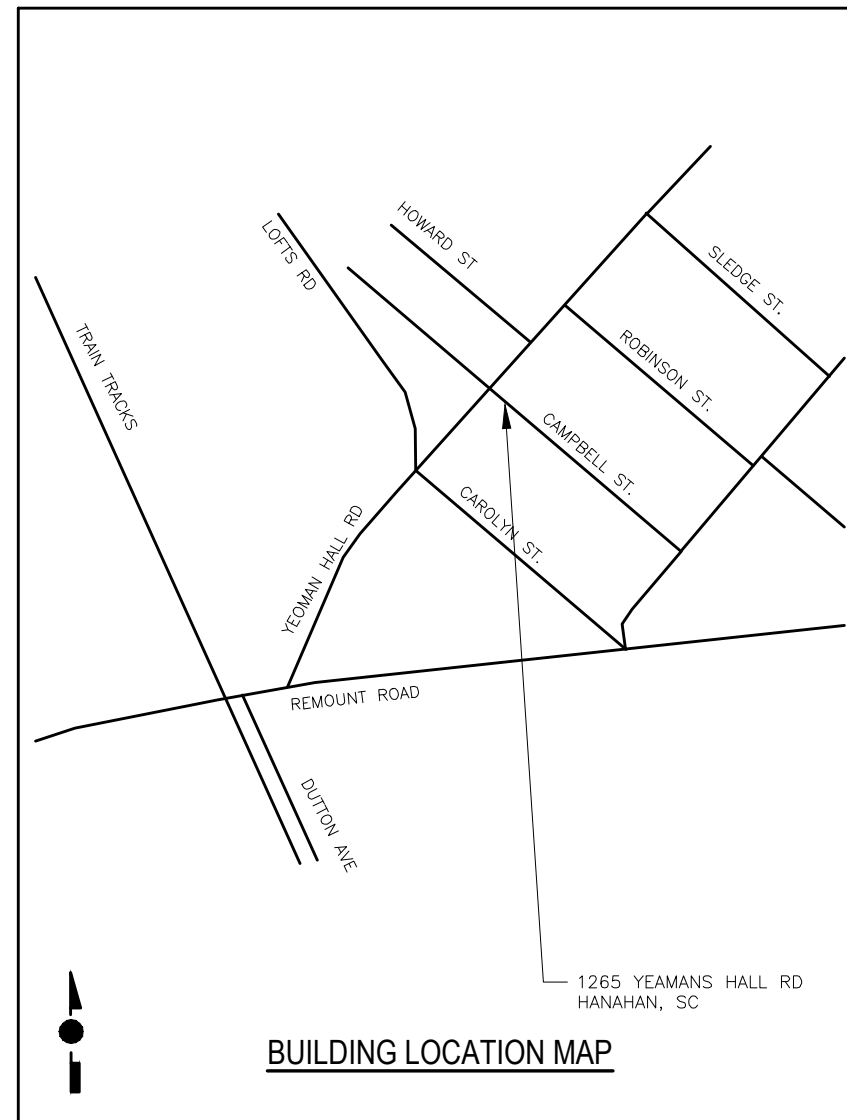
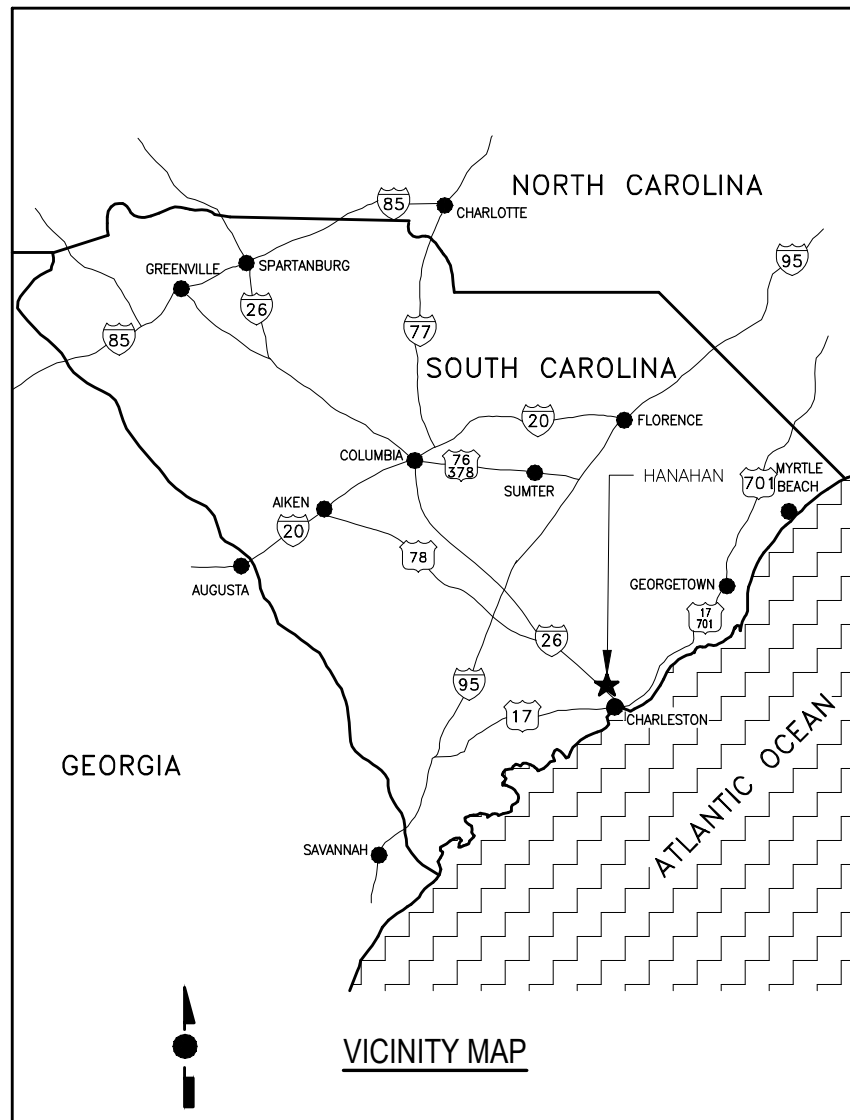
CITY OF HANAHAN

## HANAHAN SALLY PORT & FIRE STATION ROOF

1265 YEAMANS HALL ROAD  
HANAHAN, SOUTH CAROLINA

OWNER PROJ. NO. COH - 111515

CITY OF HANAHAN  
 ADC PROJ. NO. 15311  
**HANAHAN SALLY PORT & FIRE STATION ROOF  
 ROOF REPLACEMENT/REPAIRS**  
 1265 YEAMANS HALL RD  
 HANAHAN, SOUTH CAROLINA



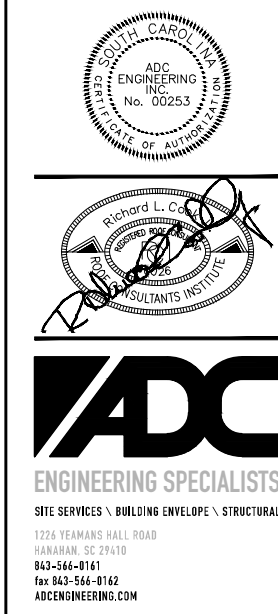
LEGEND		ABBREVIATIONS	
	SAMPLE TAKEN, R=ROOF F=FLASHING S=STICK	A	ABANDONED
	LOCATION OF SAMPLE CORE	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
	ROOF AREA SYMBOL	BIA	BRICK INDUSTRY ASSOCIATION
	STACK IN CURB	DS	DOWNSPOUT
	PITCH PAN	ETC	ET CETERA
	VENT THROUGH ROOF	HVAC	HEAT/VENTILATION/AIR CONDITION
	PARAPET WALL	MAX	MAXIMUM
	VENTILATOR	MIN	MINIMUM
	EQUIPMENT SUPPORT CURB	N.I.C.	NOT IN CONTRACT
	STACK	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
	SCUPPER WITH CONDUCTOR HEAD / DOWNSPOUT	O.C.	ON CENTER
	OVERFLOW SCUPPER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
	TAPERED INSULATION	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.
	ABANDONED EQUIPMENT TO BE REMOVED	SWRI	SEALANT WATERPROOFING RESTORATION INSTITUTE
	UNIT	TYP	TYPICAL
	GUTTER WITH DOWNSPOUT & SPLASHBLOCK	VTR	VENT THRU ROOF
	ANTENNA	W/	WITH
	GUTTER EXPANSION JOINT		

DETAILS/SECTION IDENTIFIER	
	DETAIL/SECTION LABEL
	SHEET SHOWN ON

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R201	DETAILS / SECTIONS
R202	DETAILS / SECTIONS
R203	DETAILS / SECTIONS
R204	DETAILS / SECTIONS



DATE: 11/27/2015  
 ADC PROJECT #: 15311  
 DESIGNED: RLC  
 CHECKED: JEB  
 DRAWN: TJK  
 REVISION:

### COVER SHEET

## SUMMARY OF WORK

- A. THE BUILDING WILL REMAIN COMPLETELY FUNCTIONAL AND FULLY PROTECTED AT ALL TIMES DURING THE CONSTRUCTION WORK.
- B. BASE BID WORK INCLUDES TOTAL REMOVAL OF EXISTING ROOFING SYSTEMS DOWN TO THE ROOF DECK FOR APPROXIMATELY 49 SQUARES OF ROOF. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
  1. DEMOLITION OF THE EXISTING ROOF SYSTEM(S) DOWN TO THE DECK IN ACCORDANCE WITH SECTION 02 04 00, CUTTING AND PATCHING AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
  2. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
  3. ROOF INSULATION IN ACCORDANCE SECTION 07 22 00, THERMAL ROOF INSULATION.
  4. ROOF MEMBRANE, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 53 06, COLD APPLIED MODIFIED BITUMEN SHEET ROOFING.
  5. SHEET METAL, COMPONENTS AND ACCESSORIES PER SECTION 07 60 00, SHEET METAL.
  6. REPAIRS TO SHEET METAL IN ACCORDANCE WITH SECTION 07 60 08, SHEET METAL REPAIRS.
  7. REPLACEMENT OF SEALANT SYSTEMS FROM THE ROOFING AND SHEET METAL IN ACCORDANCE WITH SECTION 07 92 00, SEALANTS FOR ROOFING AND SHEET METAL.
  8. REPLACEMENT OF SEALANT SYSTEMS FROM THE BUILDING ENVELOPE IN ACCORDANCE WITH SECTION 07 92 10, SEALANTS FOR BUILDING ENVELOPE.
- C. ALTERNATE NUMBER 1 INCLUDES REMOVAL OF EXISTING MORTAR JOINTS IN PRECAST PANELS IN THE BUILDING ENVELOPE/EXTERIOR WALLS AND REPLACEMENT WITH SEALANT JOINTS.
- D. ALTERNATE NUMBER 2 INCLUDES THE INSTALLATION OF GUTTERS AND DOWNSPOUTS ON THE STANDING SEAM METAL ROOF SYSTEM WHERE NONE EXIST.
- E. 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 10, 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. EXTEND/RAISE ALL PENETRATIONS, CURBS, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS TO A MINIMUM 8" ABOVE THE FINISHED ROOF SURFACE.
4. A MINIMUM DISTANCE OF 12 INCHES SHALL EXIST BETWEEN ANY AND ALL PENETRATIONS AND/OR TERMINATIONS.
5. USE ROUND SHAPES TO CONSTRUCT EQUIPMENT SUPPORTS AND DO NOT USE PITCH PANS.
6. INSTALL NEW GRAY PVC CONDENSATE LINES WITH "P-TRAPS" ROUTED INTO DRAINS/GUTTERS FROM HVAC UNITS.
7. 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.
8. INSTALL TAPERED CRICKETS TO PROVIDE POSITIVE DRAINAGE ON THE UPSLOPE SIDE OF ALL NON-ROUND PENETRATIONS GREATER THAN 24" WIDE.
9. WALKPADS ARE REQUIRED AT ALL ROOF ACCESS POINTS AND AROUND ALL MECHANICAL EQUIPMENT. INSTALL EACH WALKPAD 12" FROM THE NEXT AND 12" AWAY FROM WALLS AND CURBS.

## 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

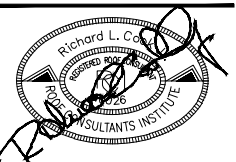
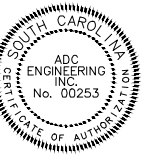
1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02 04 00, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY DOWN TO THE EXISTING DECK IN INDICATED AREAS OF ROOF REPLACEMENT. AVOID DAMAGING THE ROOF DECK. NO MORE ROOFING SHALL BE REMOVED THAN CAN BE REPLACED BY THE COMPLETE NEW ROOF SYSTEM THE SAME DAY.
3. BUILDING ENVELOPE DEMOLITION IS REQUIRED TO THE VARIOUS COMPONENTS AND SYSTEMS TO COMPLETE THE REQUIRED REPAIRS, MODIFICATIONS AND REPLACEMENTS OF THIS PROJECT.
4. REMOVE IDENTIFIED ABANDONED PENETRATIONS SHOWN ON DRAWINGS.
5. EXISTING NAILERS AND BLOCKING SHALL BE ADDRESSED PER CONSTRUCTION NOTES.
6. THE UNDERSIDE (INTERIOR SIDE) OF THE DECK MAY HAVE HVAC, ELECTRICAL FIXTURES, ETC. ATTACHED. THE CONTRACTOR SHALL HAVE QUALIFIED CRAFTSMEN REMOVE AND REINSTALL ALL AFFECTED ITEMS OF THE DEMOLITION OF ROOFING TO COMPLETE THE WORK AND TO REPAIR/REPLACE DECKING. 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.

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## GENERAL NOTES

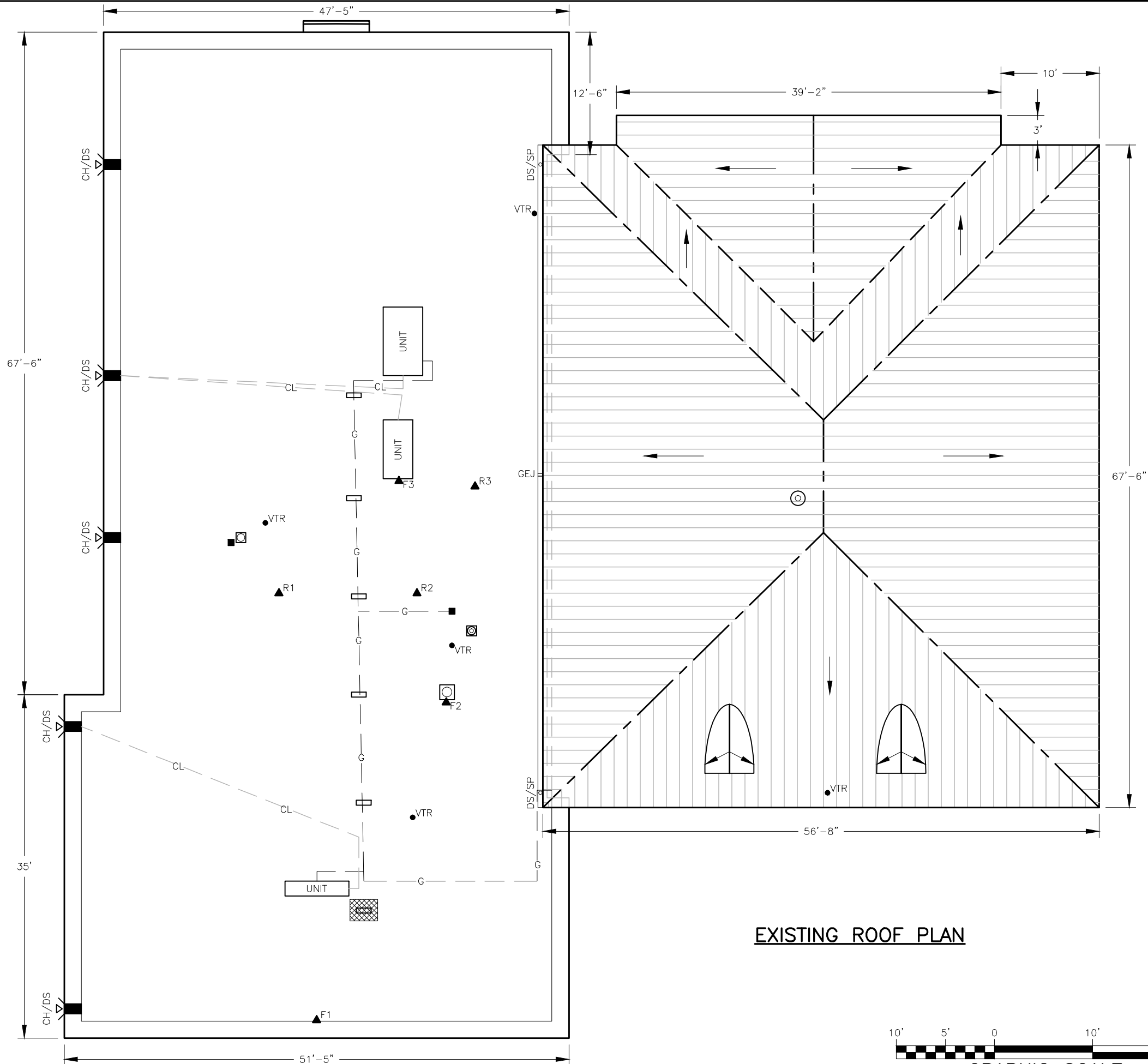
R102

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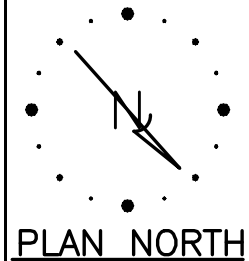
### CORE SAMPLE SUMMARY

- A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.
- B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION
▲ R1-	1/4" AGGREGATE SURFACE BUILT UP 1/4" PERLITE 2" POLYISOCYANURATE PLYWOOD ROOF DECK
▲ R2-	SAME AS R1
▲ R3-	SAME AS R1

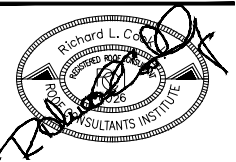
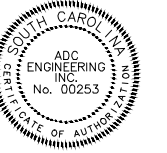


**EXISTING ROOF PLAN**



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**EXISTING ROOF PLAN**

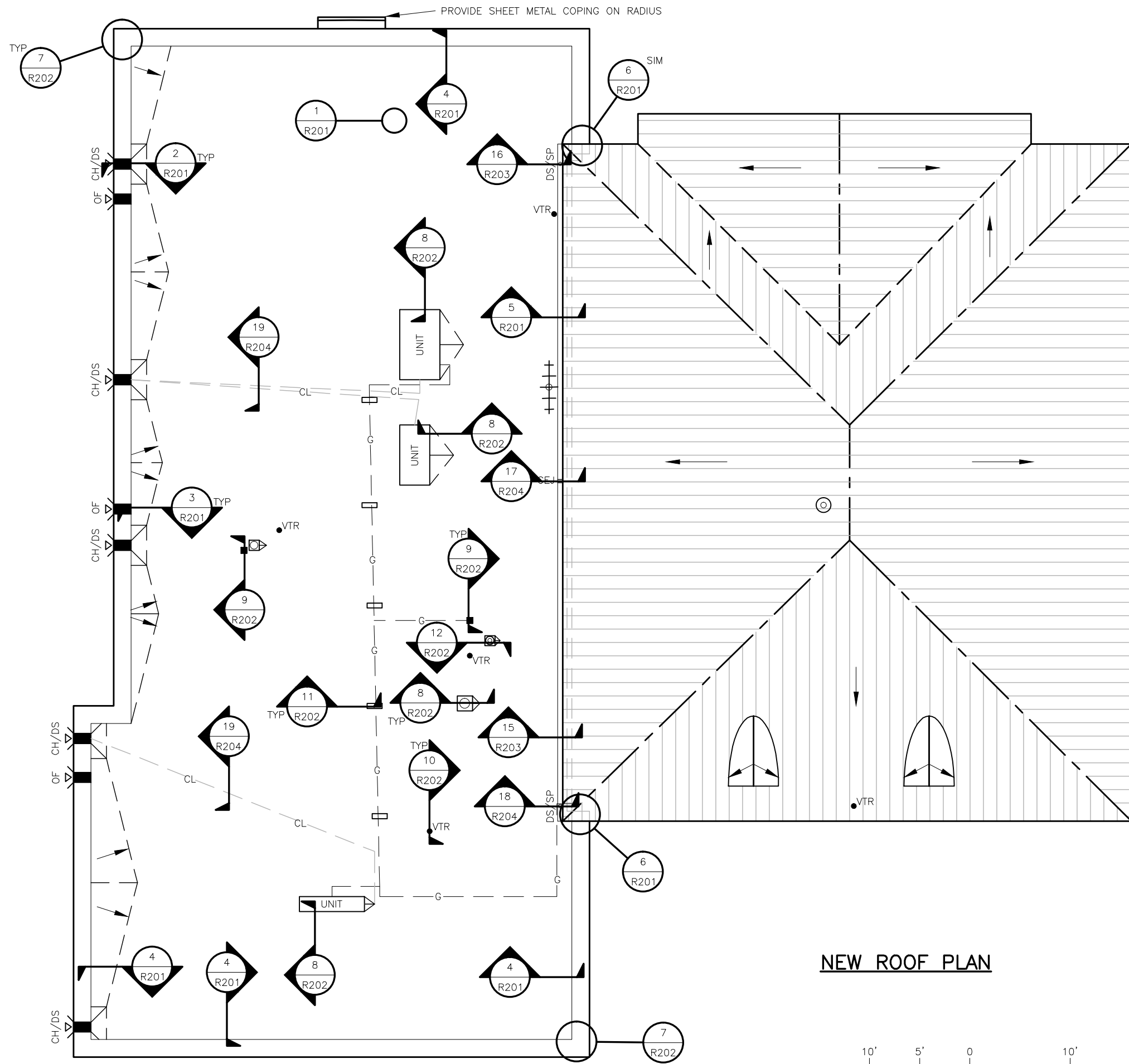
**R103**

SHEET 3 OF 9

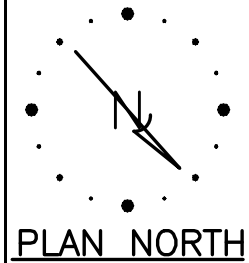
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### TAPERED INSULATION NOTES

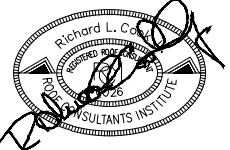
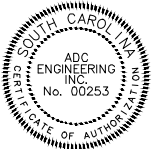
1. THE PRIMARY SLOPE IS IN THE EXISTING ROOF DECK, EXCEPT FROM DRAIN LINE TO PARAPET WALLS WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
3. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
4. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
5. ALL PENETRATIONS/TERMINATIONS SHALL BE RAISED TO PROVIDE MINIMUM 8" BASE FLASHING HEIGHT CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
6. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
7. AT DRAINAGE LOCATIONS ENSURE INSULATION TAPERS UP FROM DRAIN A MINIMUM 1/4":1' AND A MAXIMUM 1":1'. PROVIDE TAPERED FILLER TO MATCH FIELD INSULATION THICKNESSES.
8. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".



**NEW ROOF PLAN**



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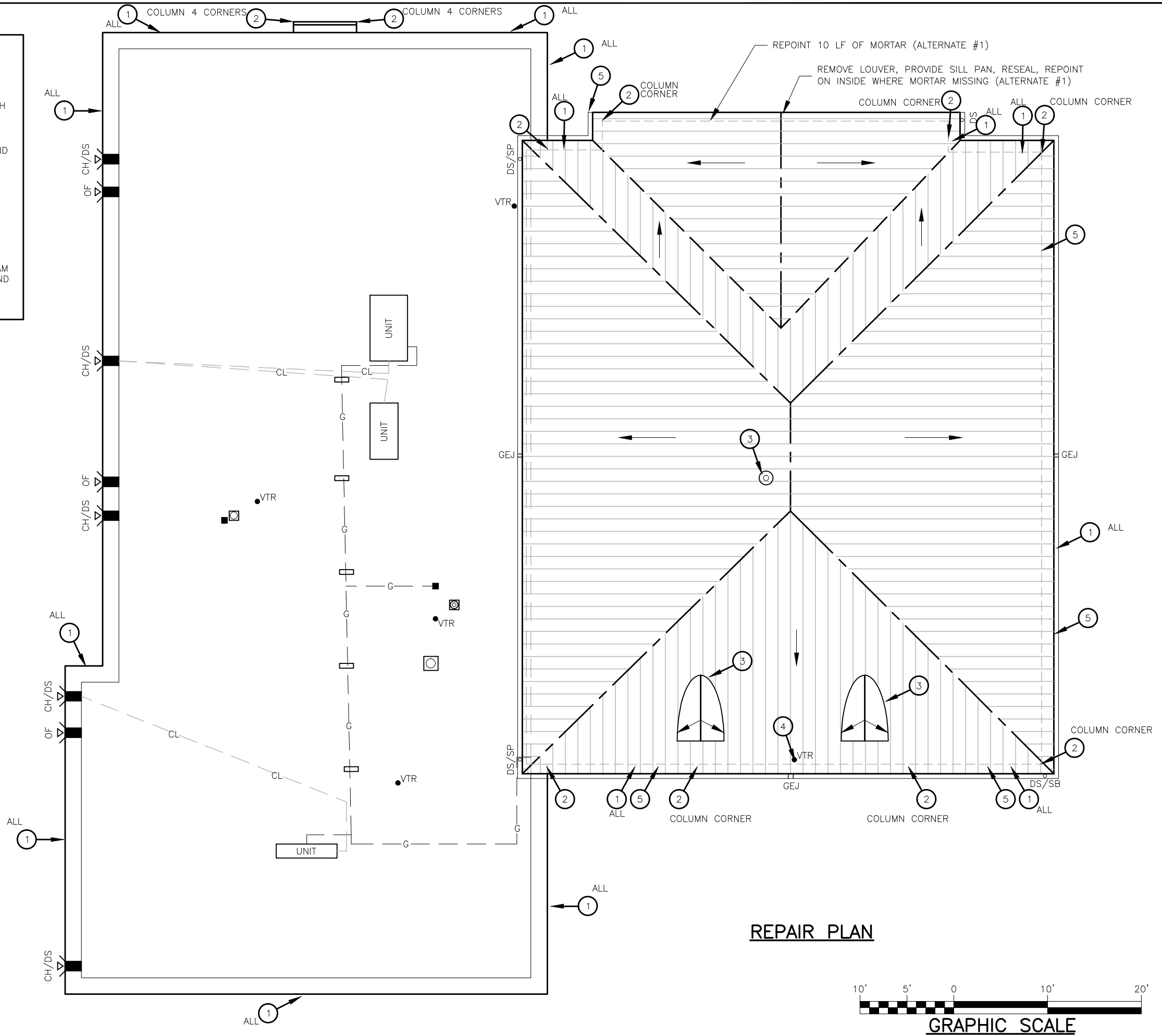
**NEW ROOF  
 PLAN**

**R104**

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### REPAIR NOTES

1. ROUTE OUT EXISTING MORTAR JOINTS IN PRECAST AND RE-POINT WITH A TYPE N MORTAR CLOSELY MATCHING EXISTING COLOR. MORTAR JOINTS DEPTH SHALL BE INSTALLED A MINIMUM OF  $\frac{1}{2}$  THE JOINT WIDTH. (ALTERNATE NUMBER 1)
2. ROUTE OUT EXISTING MORTAR AND PROVIDE A BOND BREAKER AND SEALANT.
3. PROVIDE AN ELASTOMERIC COATING SYSTEM 2 PENETRATION/TERMINATION FLANGE WITH ROOF PANEL. (BASE BID)
4. PROVIDE SHEET METAL UMBRELLA OVER VTR PENETRATION AS SHOWN IN DETAIL. (BASE BID)
5. PROVIDE GUTTERS AND DOWNSPOUTS ON THE REMAINING EAVE LOCATIONS ON THE STANDING SEAM METAL ROOF AREA. GUTTER EXPANSION JOINTS AND DOWNSPOUTS SHALL BE PROVIDED AS SHOWN. (ALTERNATE NUMBER 2)

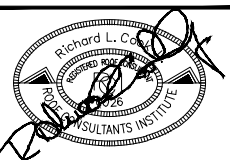
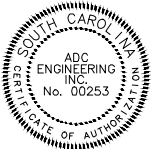


PLAN NORTH



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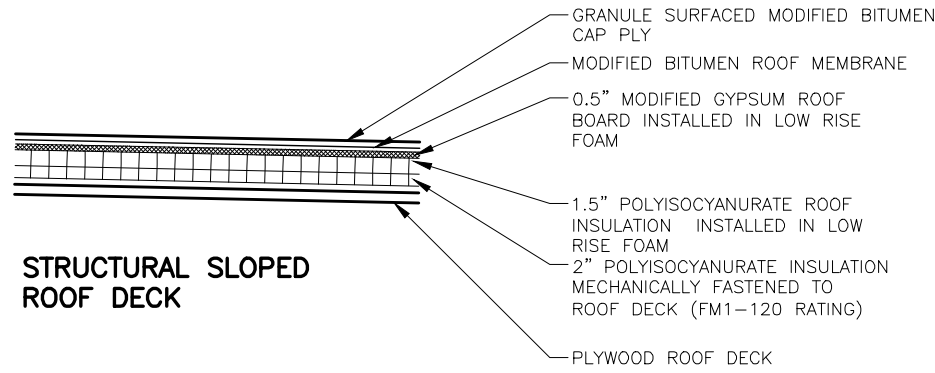
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REPAIR  
 PLAN

**R105**

SHEET 5 OF 9

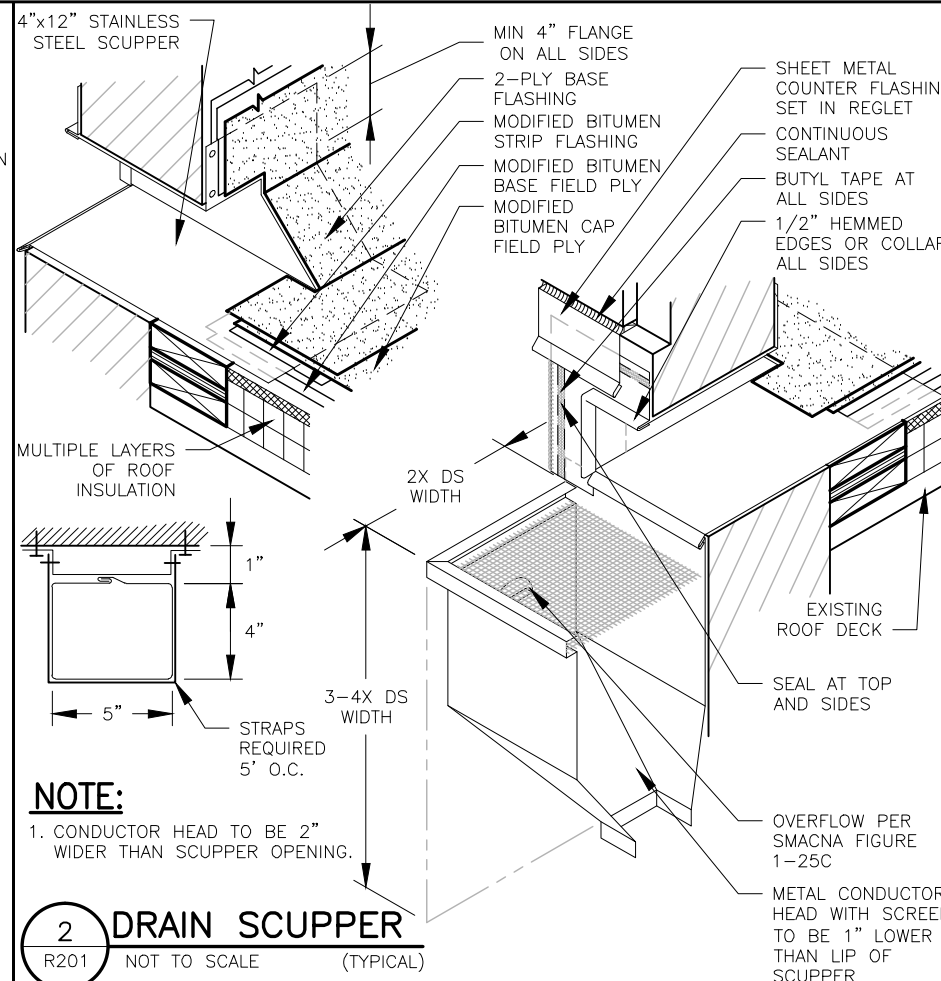
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**NOTES:**

1. TAPER INSULATION SHALL BE PROVIDED FOR SECONDARY SLOPES (I.E. SUMPS AT ROOF DRAINS, SUMPS AT DRAIN SCUPPERS, CRICKETS, SADDLES, BACKSLOPE, ETC.). SECONDARY SLOPE MAY BE CONSTRUCTED FROM PERLITE INSULATION MATERIALS.
2. JOINTS OFFSET AND STAGGERED BETWEEN LAYERS OF INSULATION.
3. SIDE AND END LAPS OFFSET AND STAGGERED BETWEEN PLYS OF ROOF MEMBRANE.
4. SUPPLEMENT NAILER ANCHORAGE AS NECESSARY TO CONFORM WITH SPECIFIED REQUIREMENTS. PROVIDE NAILERS AS NECESSARY.
5. FASTENERS USED TO ATTACH TREATED WOOD PRODUCTS SHALL BE COMPATIBLE WITH THE PRODUCTS AND CONDITION OF ATTACHMENT AS SPECIFIED. SEPARATION BETWEEN SHEET METAL AND TREATED CARPENTRY IS REQUIRED AS SPECIFIED.

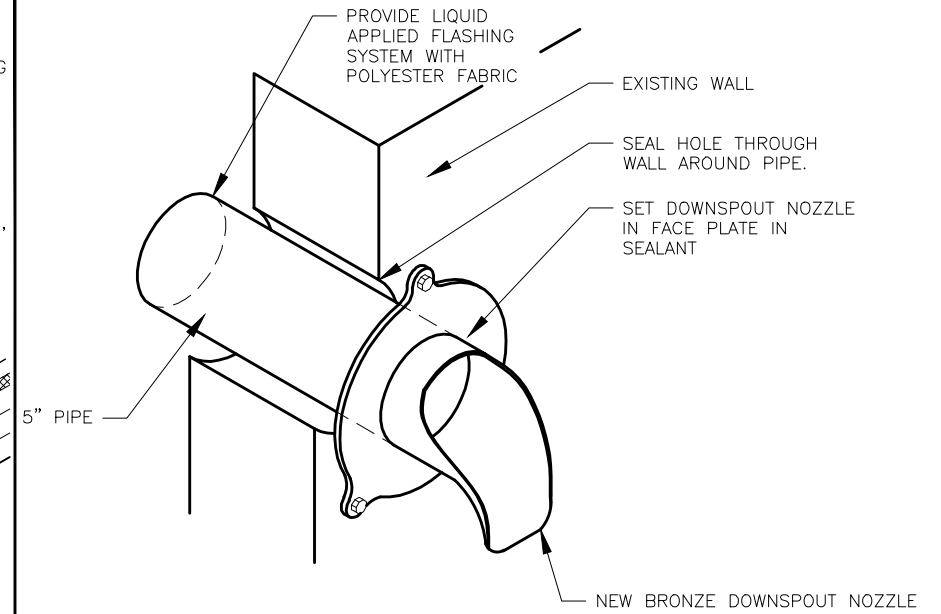
**1 MODIFIED BITUMEN ROOF ASSEMBLY**  
R201 NOT TO SCALE (TYPICAL)



**NOTE:**

1. CONDUCTOR HEAD TO BE 2" WIDER THAN SCUPPER OPENING.

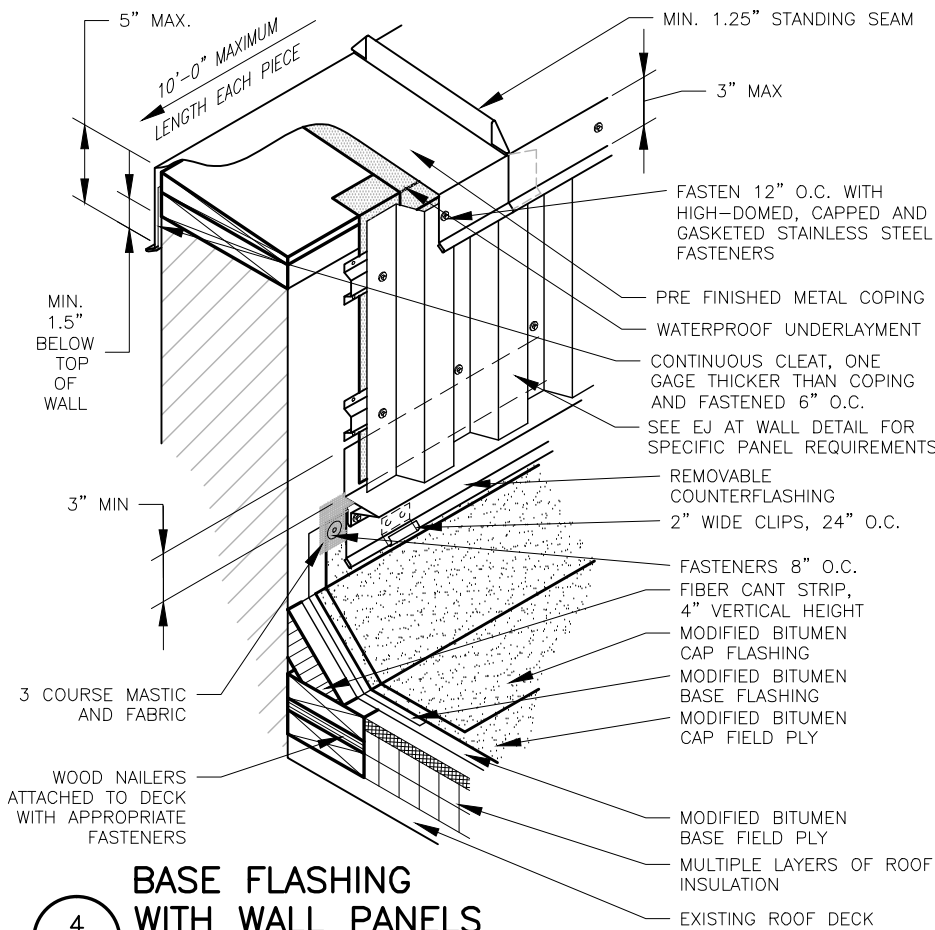
**2 DRAIN SCUPPER**  
R201 NOT TO SCALE (TYPICAL)



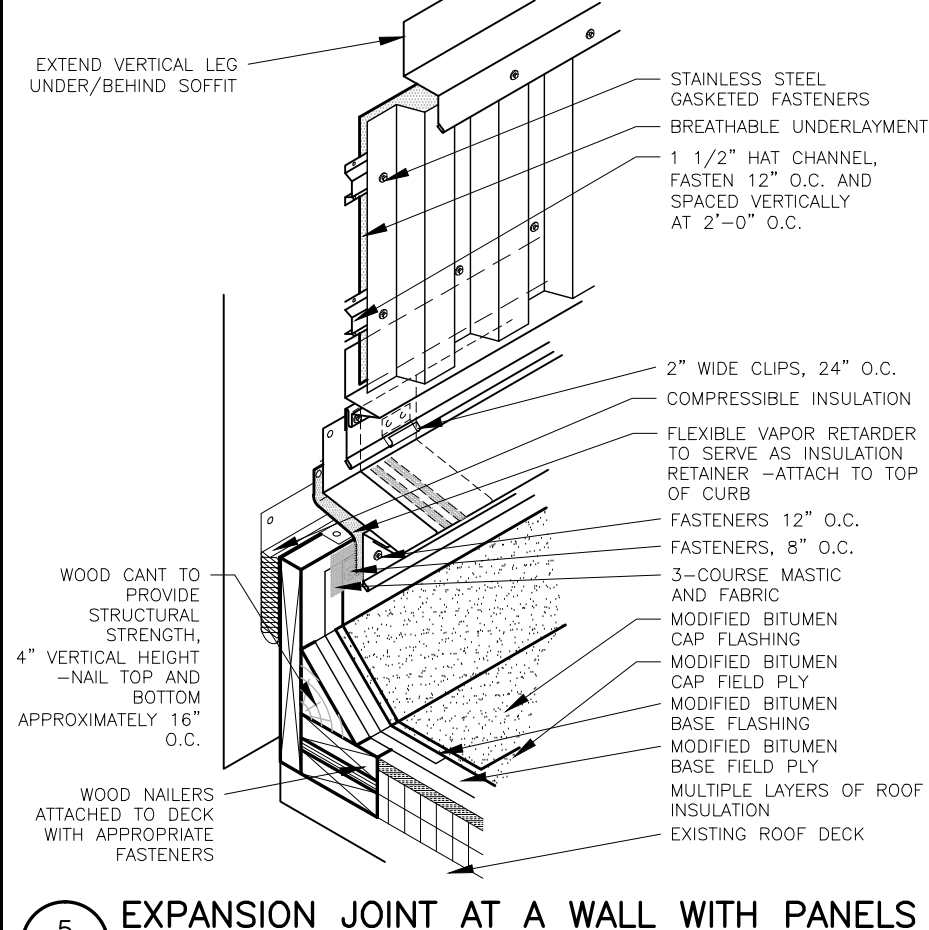
**NOTE:**

1. LENGTH OF PIPE SHALL BE FABRICATED TO ENSURE DOWNSPOUT NOZZLE/ FACE PLATE RESTS FIRMLY AGAINST EXTERIOR FACE OF WALL PANEL.

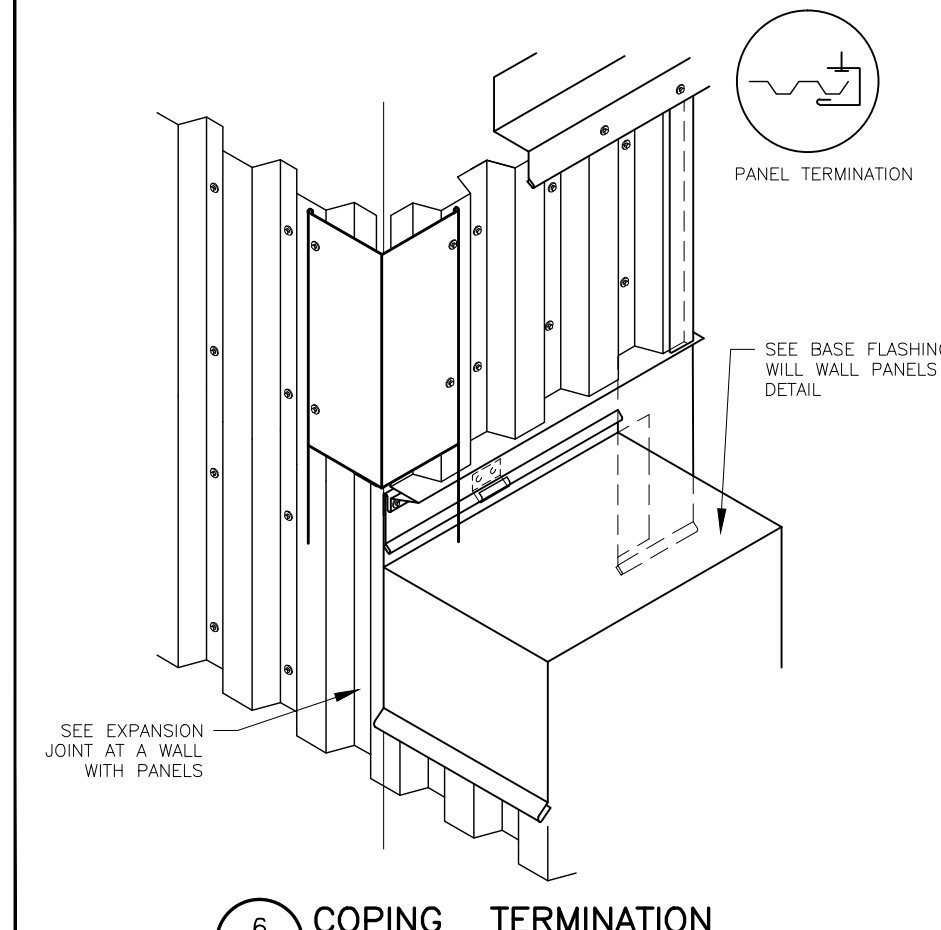
**3 DOWNSPOUT NOZZLE**  
R201 NOT TO SCALE (TYPICAL)



**4 BASE FLASHING WITH WALL PANELS**  
R201 NOT TO SCALE (TYPICAL)

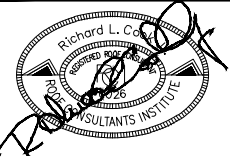
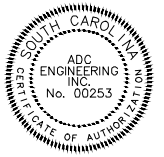


**5 EXPANSION JOINT AT A WALL WITH PANELS**  
R201 NOT TO SCALE (TYPICAL)



**6 COPING TERMINATION**  
R201 NOT TO SCALE (TYPICAL)

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ROOF REPLACEMENT/REPAIRS**  
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HANAHAN, SOUTH CAROLINA



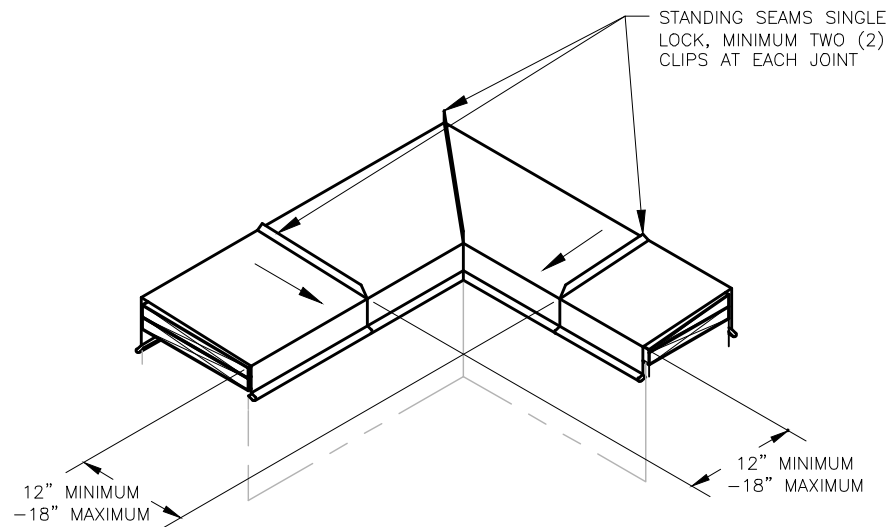
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CHECKED: JEB  
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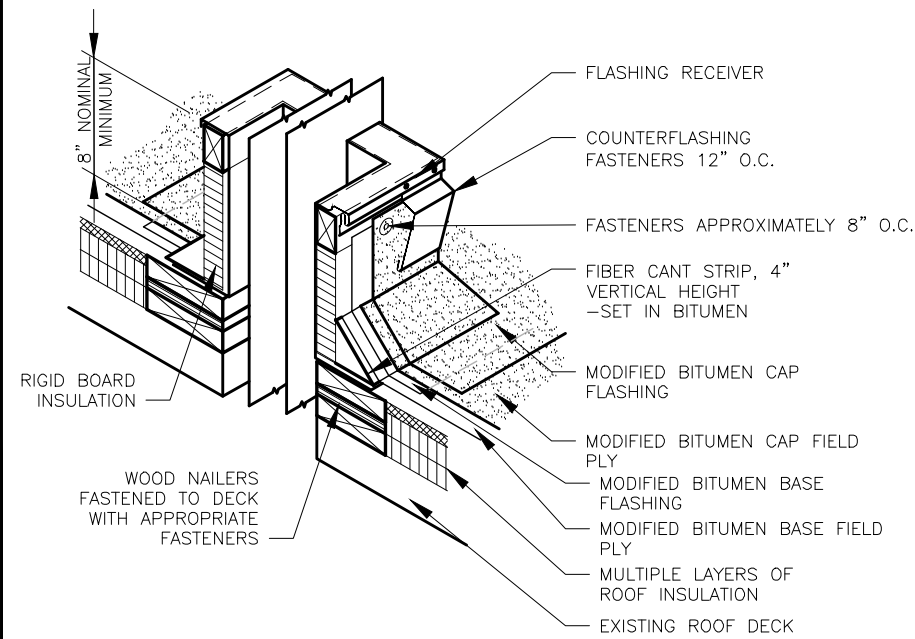
**DETAILS/  
SECTIONS**

**R201**  
SHEET 6 OF 9

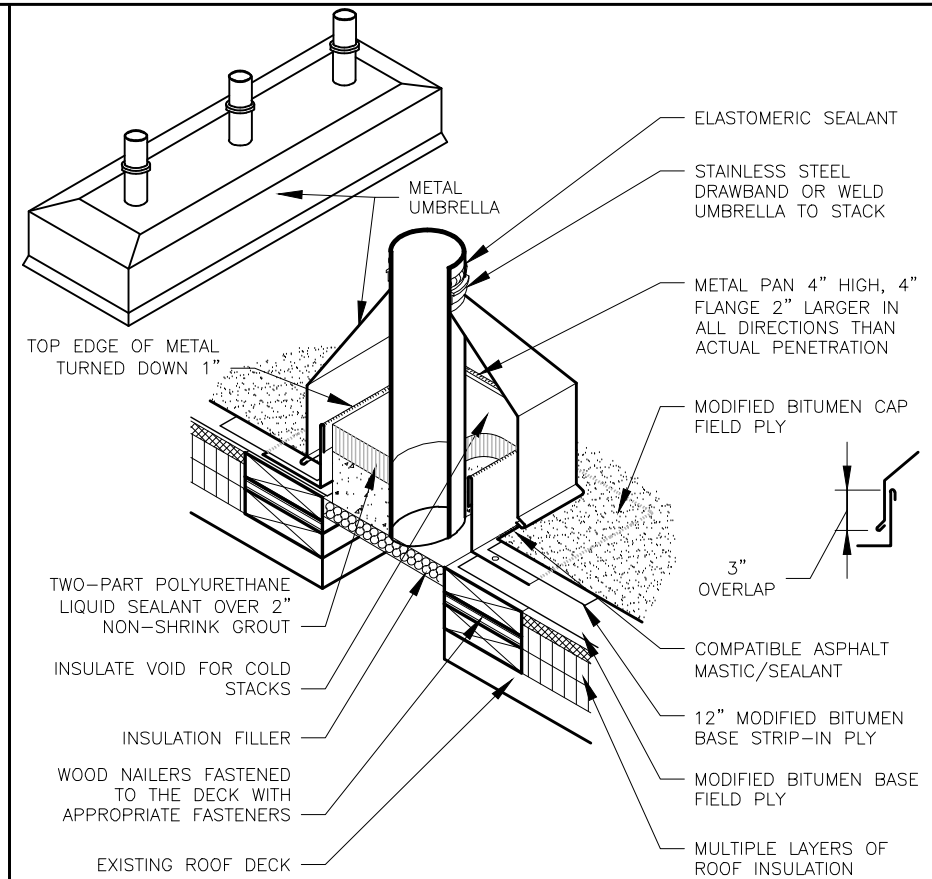
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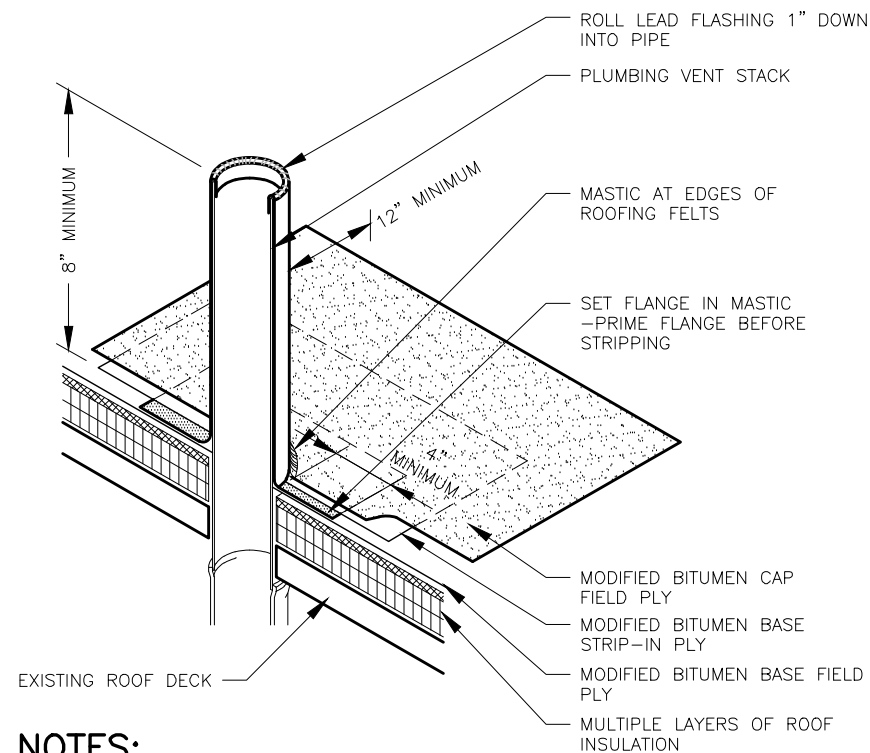
**7** COPING PREFABRICATED CORNER  
R202 NOT TO SCALE (TYPICAL)



**8** METAL CURB FOR ROOF PENETRATIONS  
R202 NOT TO SCALE (TYPICAL)

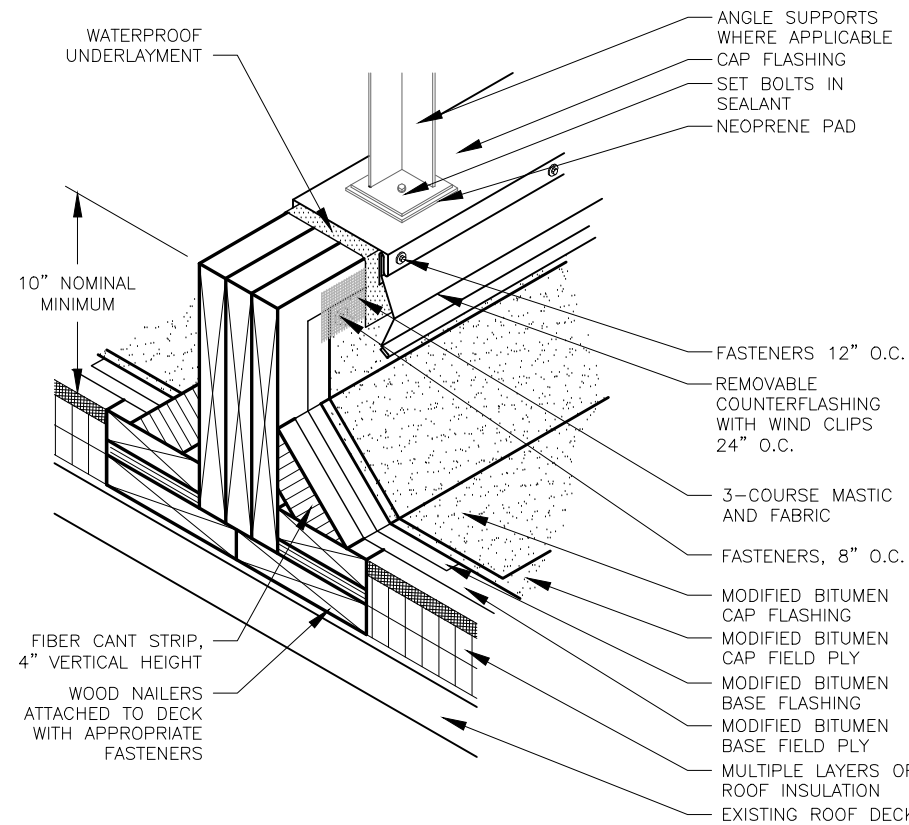


**9** PITCH PAN WITH UMBRELLA  
R202 NOT TO SCALE (TYPICAL)

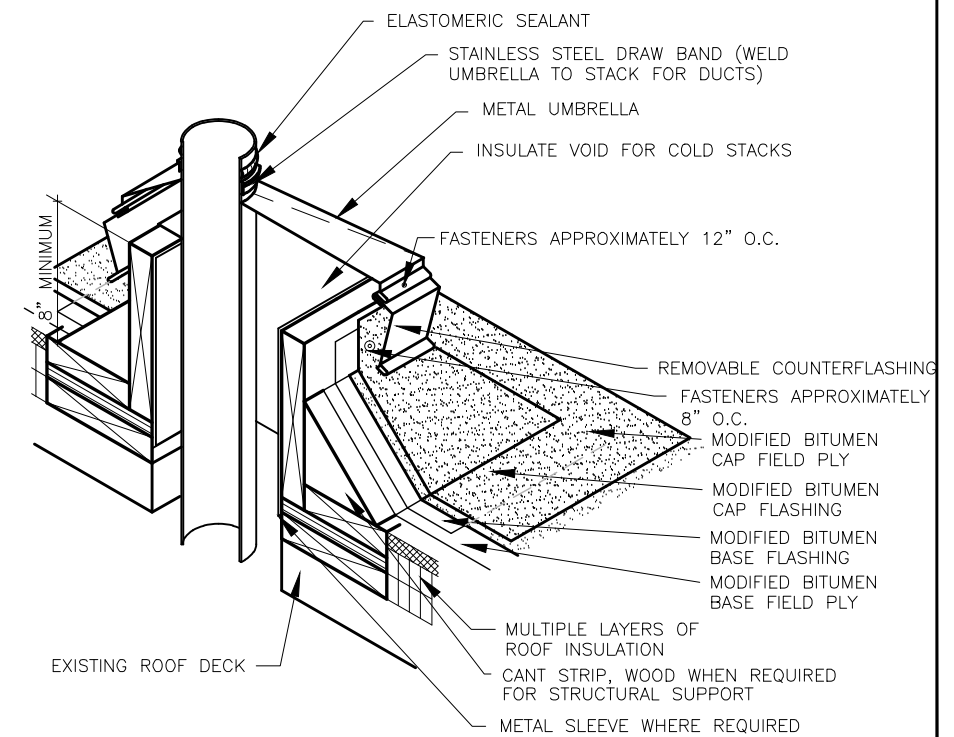


**10** PLUMBING VENT FLASHING  
R202 NOT TO SCALE (TYPICAL)

**NOTES:**  
1. SHEET LEAD MINIMUM OF 4 LB PER SQUARE FOOT.  
2. RAISE VTR USING CAST IRON PIPE AND COUPLING TO MINIMUM OF EIGHT INCH HEIGHT ABOVE FINISHED ROOF.

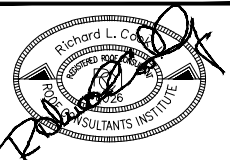
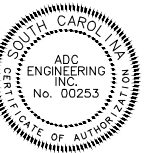


**11** EQUIPMENT SUPPORT  
R202 NOT TO SCALE (TYPICAL)



**12** STACK FLASHING  
R202 NOT TO SCALE (TYPICAL)

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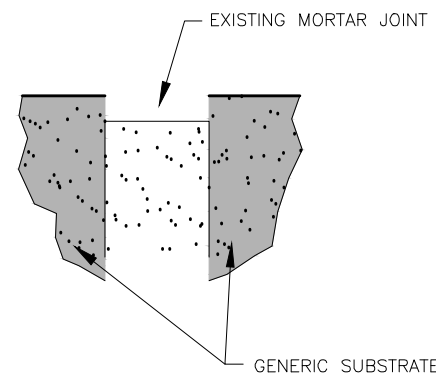
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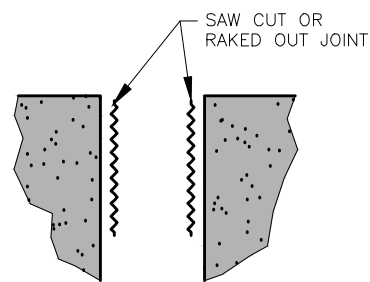
**DETAILS/  
SECTIONS**

**R202**  
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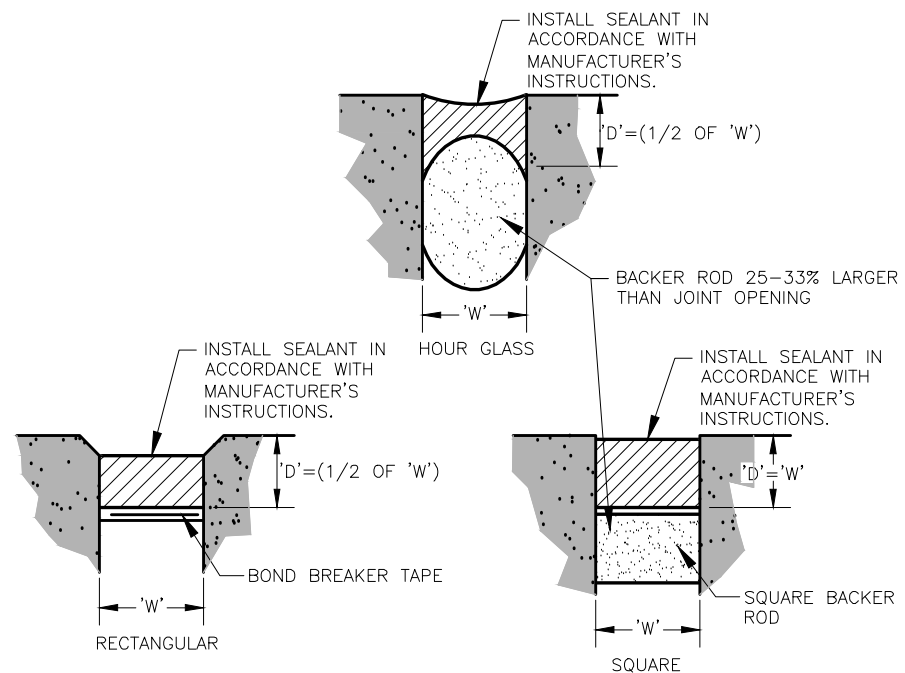
**EXISTING STANDARD JOINT**  
STEP ONE



**NOTES:**

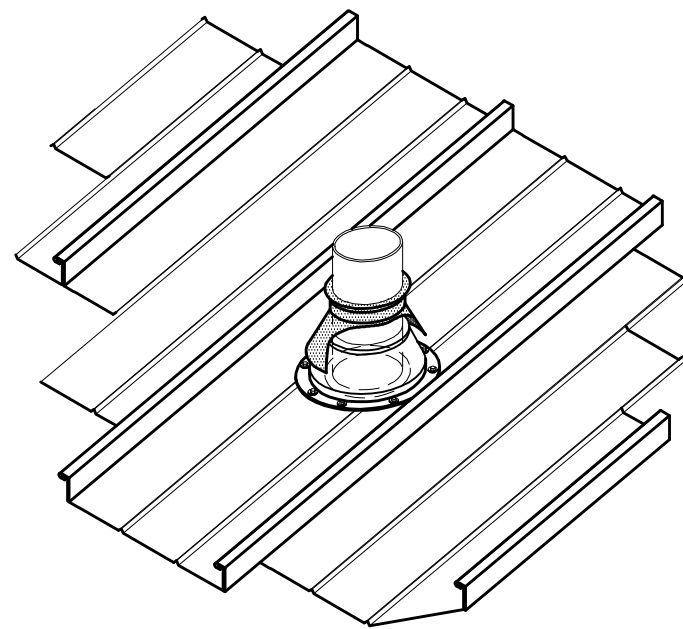
1. A SEALANT IS NO BETTER THAN THE SURFACE TO WHICH IT IS ATTACHED. PROPER PREPARATION IS CRITICAL.
2. THE MANUFACTURERS INSTRUCTIONS MUST BE CAREFULLY FOLLOWED TO OBTAIN PROPER SEALANT ADHESION.
3. ADHERE TO THE JOINT DESIGN AND APPLICATION REQUIREMENTS.

**PREPARE STANDARD JOINT**  
STEP TWO



**PROVIDE STANDARD JOINT (OPTIONS)**  
STEP THREE

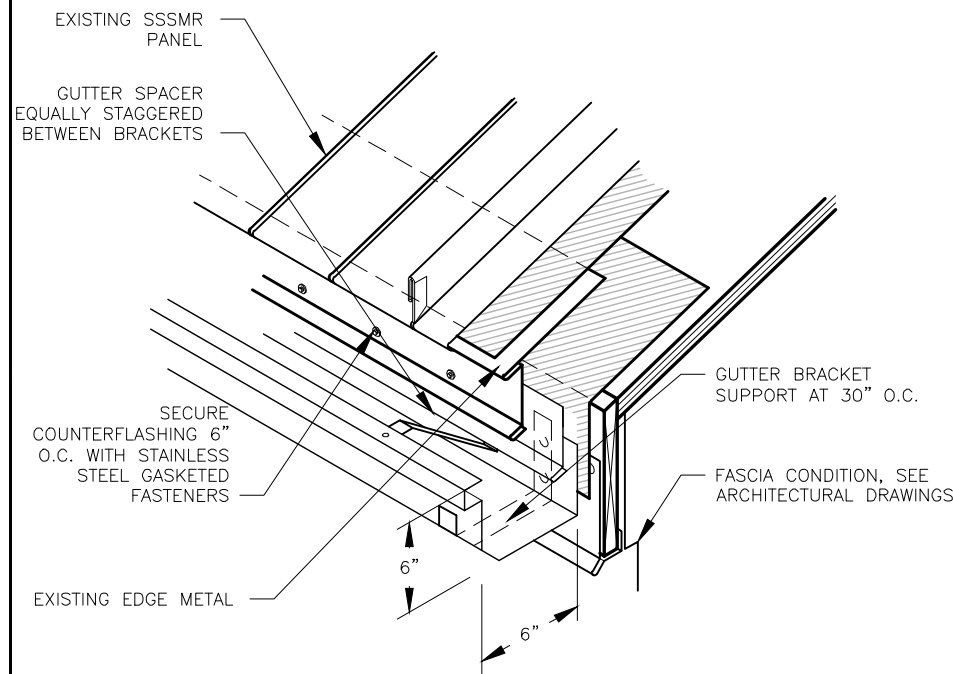
**13 STANDARD JOINT DETAIL**  
R203 NOT TO SCALE (TYPICAL)



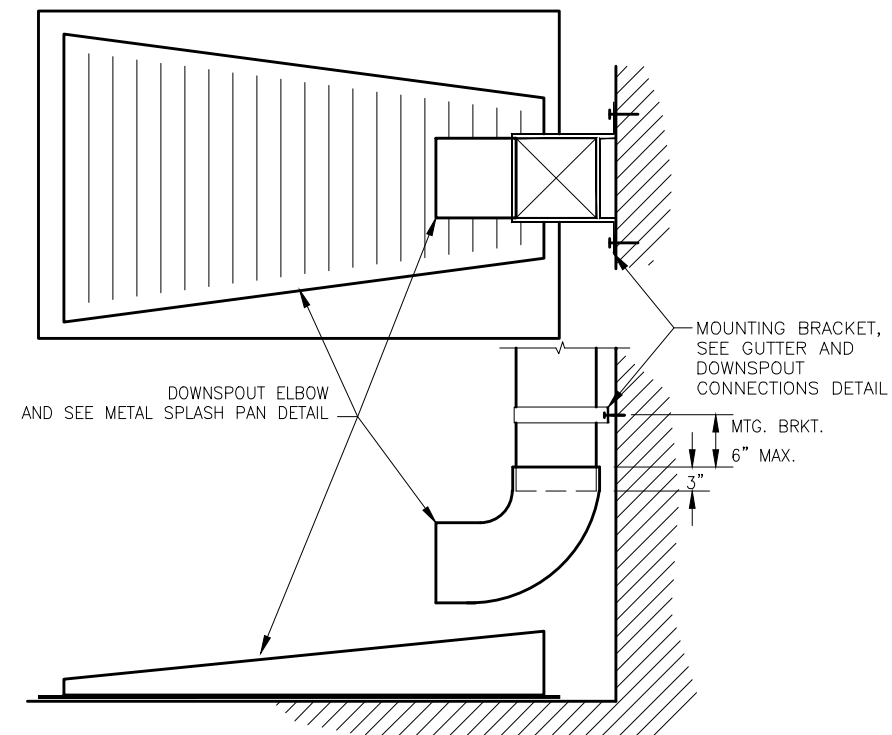
**NOTES:**

1. INTENT OF DETAIL IS TO INDICATE KYNAR FINISHED SHEET METAL COLLAR TO COVER EXISTING BOOT.

**14 PLUMBING VENT FLASHING**  
R203 NOT TO SCALE (TYPICAL)



**15 EDGE METAL W/ GUTTER**  
R203 NOT TO SCALE (TYPICAL)

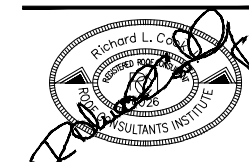
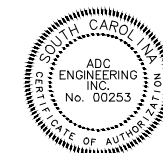


**NOTE:**

1. PROVIDE METAL SPLASH PANS FOR DRAINAGE ONTO ROOF AREAS.

**16 DOWNSPOUT W/ METAL SPLASH PAN DETAIL**  
R203 NOT TO SCALE (TYPICAL)

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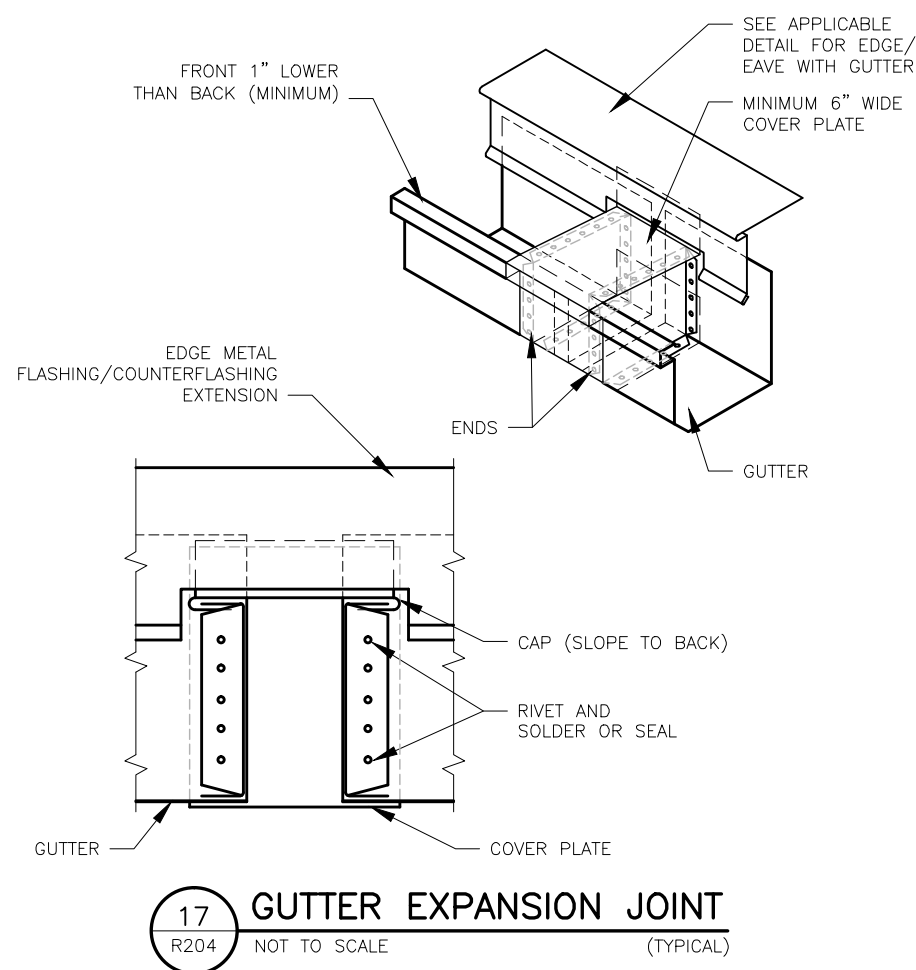
**DETAILS/  
SECTIONS**

**R203**

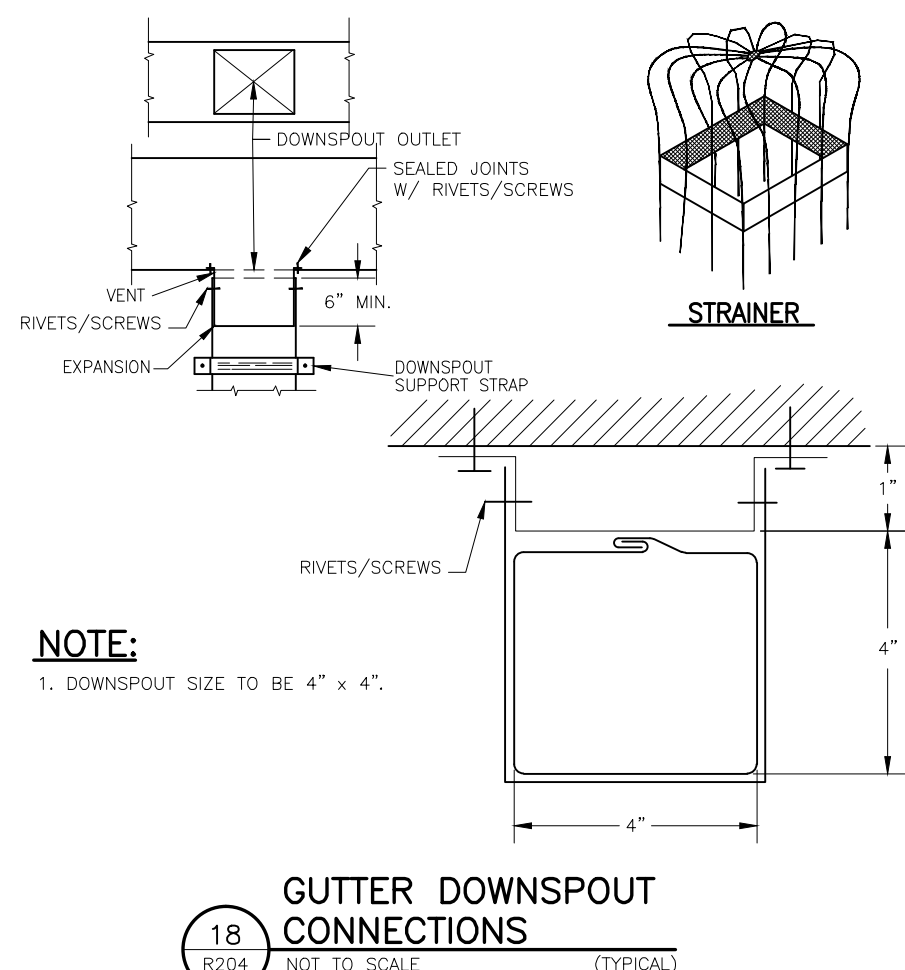
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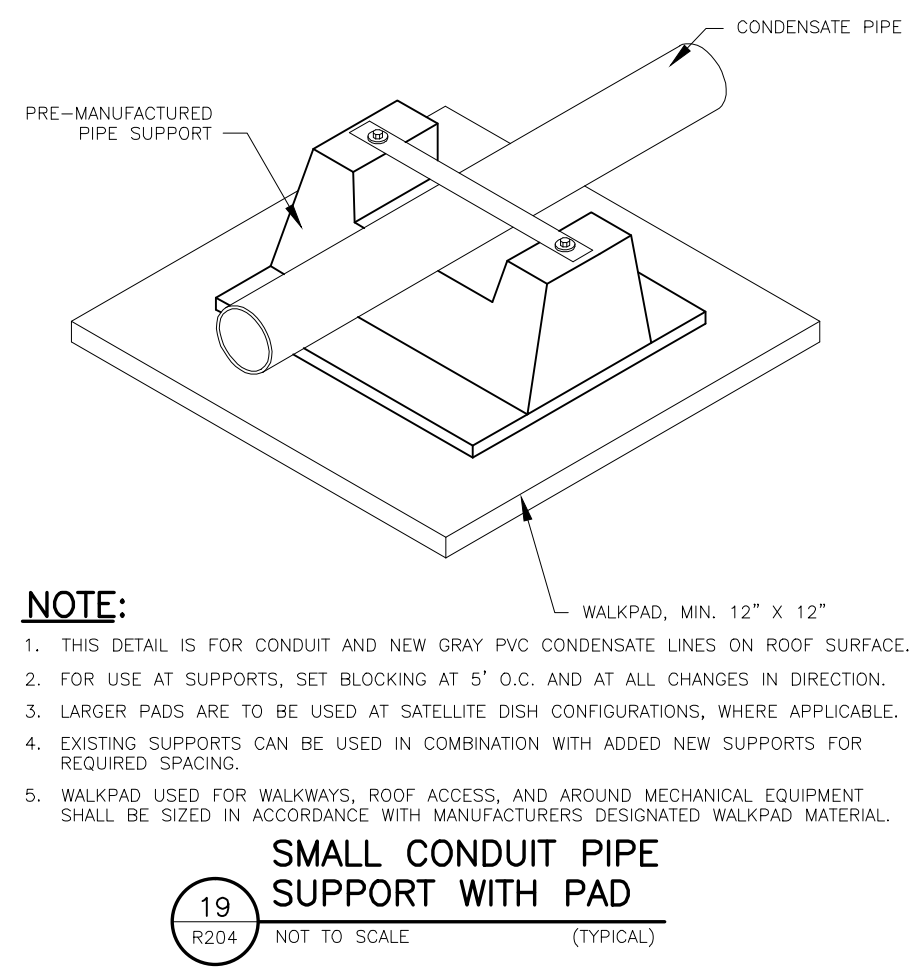


**17**  
R204 NOT TO SCALE (TYPICAL)  
**GUTTER EXPANSION JOINT**



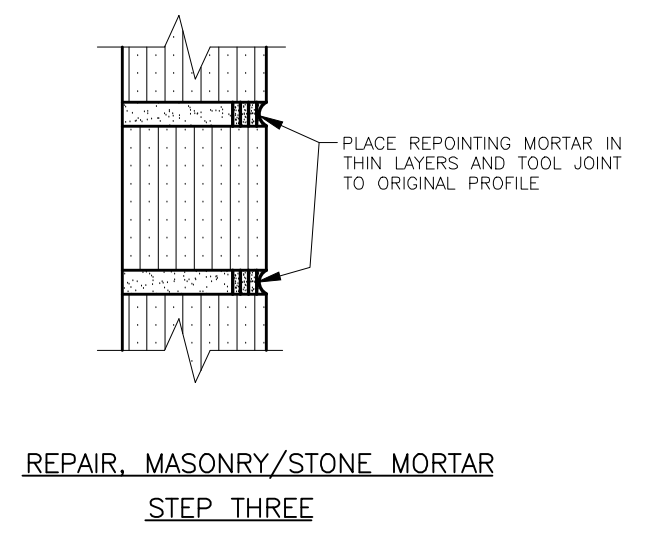
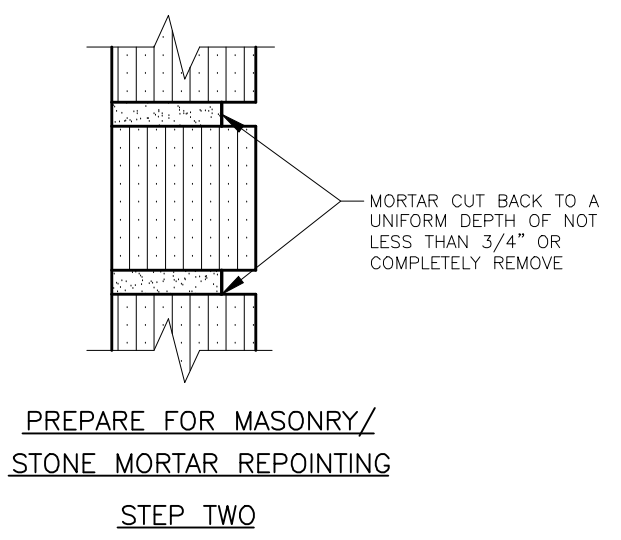
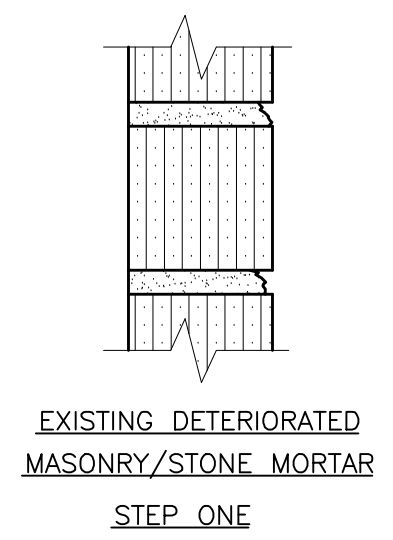
**NOTE:**  
1. DOWNSPOUT SIZE TO BE 4" x 4".

**18**  
R204 NOT TO SCALE (TYPICAL)  
**GUTTER DOWNSPOUT CONNECTIONS**



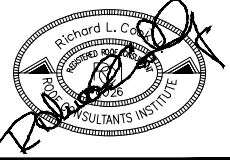
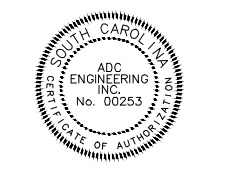
**NOTE:**  
1. THIS DETAIL IS FOR CONDUIT AND NEW GRAY PVC CONDENSATE LINES ON ROOF SURFACE.  
2. FOR USE AT SUPPORTS, SET BLOCKING AT 5' O.C. AND AT ALL CHANGES IN DIRECTION.  
3. LARGER PADS ARE TO BE USED AT SATELLITE DISH CONFIGURATIONS, WHERE APPLICABLE.  
4. EXISTING SUPPORTS CAN BE USED IN COMBINATION WITH ADDED NEW SUPPORTS FOR REQUIRED SPACING.  
5. WALKPAD USED FOR WALKWAYS, ROOF ACCESS, AND AROUND MECHANICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS DESIGNATED WALKPAD MATERIAL.

**19**  
R204 NOT TO SCALE (TYPICAL)  
**SMALL CONDUIT PIPE SUPPORT WITH PAD**



**20**  
R204 NOT TO SCALE (TYPICAL)  
**REPOINTING MORTAR REPAIR**

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**DETAILS/ SECTIONS**

**R204**  
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