

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

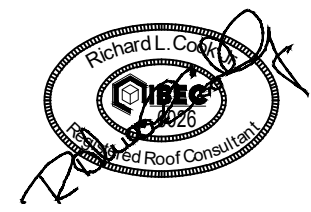


# REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS

BEE PROJECT NUMBER: 23010C  
 OWNER PROJECT NUMBER: H59-6229-PD  
 MYRTLE BEACH, SOUTH CAROLINA

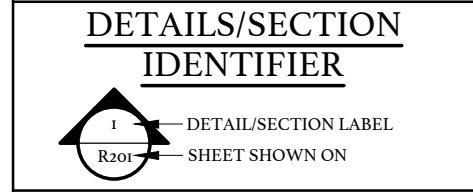


1226 YEAMANS HALL ROAD, STE C  
 HANAHAN, SC 29410



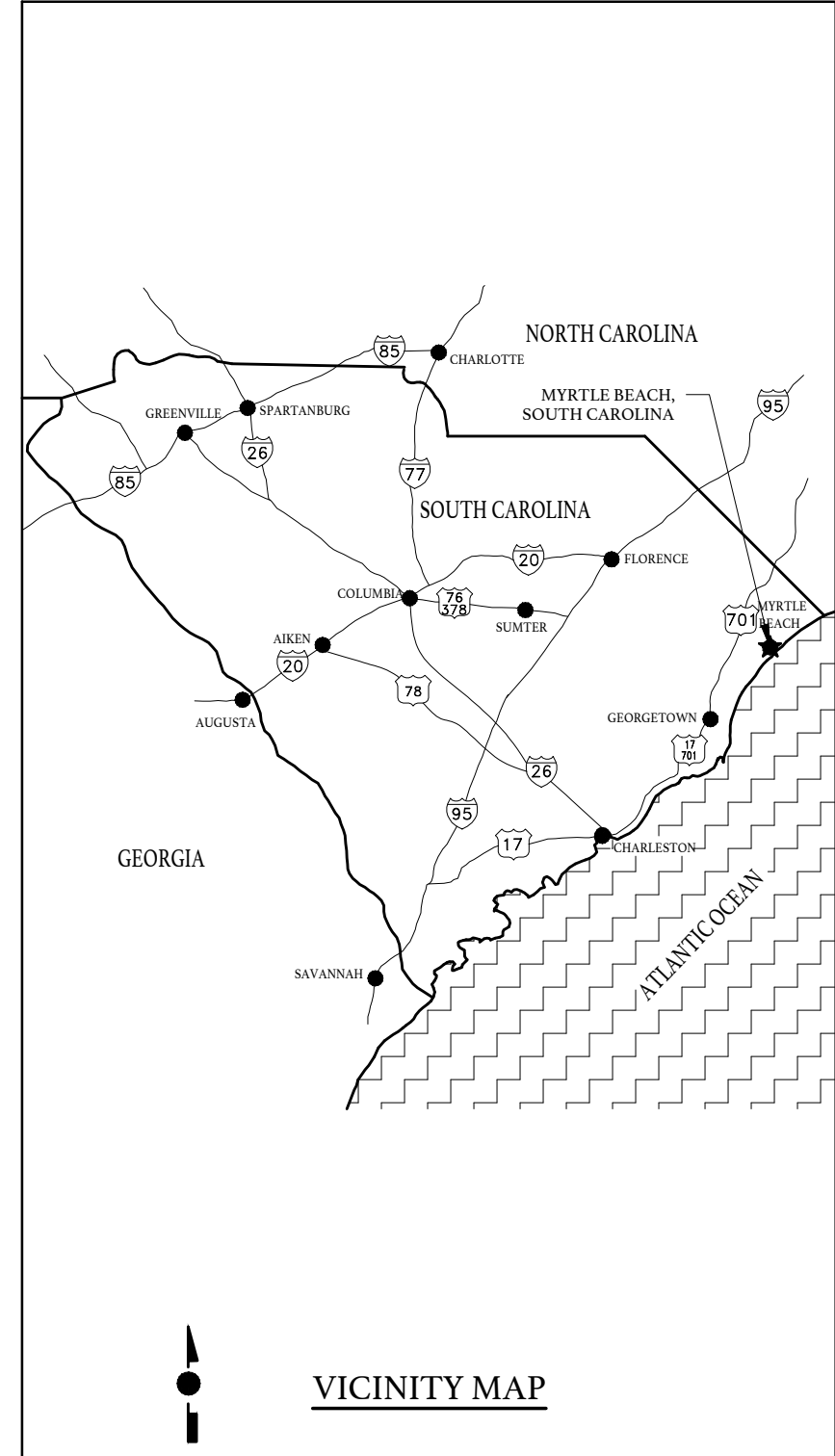
ABBREVIATIONS	
A	ABANDONED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
BIA	BRICK INDUSTRY ASSOCIATION
DS	DOWNSPOUT
EPDM	SINGLE PLY
ETC	ET CETERA
HVAC	HEAT/VENTILATION/AIR CONDITION POUND
MAX	MAXIMUM
MIN	MINIMUM
N.I.C.	NOT IN CONTRACT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
O.C.	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
PVC	POLYVINYLCHLORIDE
RD	ROOF DRAIN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.
SWRI	SEALANT WATERPROOFING RESTORATION INSTITUTE
TYP	TYPICAL
VTR	VENT THRU ROOF
W/	WITH

LEGEND	
	SAMPLE TAKEN, R=ROOF F=FLASHING S=SPIKE
	ROOF AREA / LEVEL
	LOCATION OF SAMPLE CORE
	ROOF AREA SYMBOL
	SLOPE INDICATOR
	ROOF DRAIN
	ROOF DRAIN
	OVERFLOW DRAIN
	OVERFLOW SCUPPER
	THRU WALL SCUPPER
	GUTTER W/ DOWNSPOUT TO SPLASH BLOCK
	GUTTER W/ DOWNSPOUT
	VENT THRU ROOF
	PITCH PAN
	PITCH PAN W/ ELECTRICAL
	PHOTO ELECTRIC EYE
	GOOSENECK
	WATER SPIGOT
	ABANDONED PIPE PENETRATION
	ROOF VENT
	PIPE PENETRATION
	SCREEN WALL SUPPORT
	GOOSENECK
	ELECTRICAL BOX
	PITCH PAN W/ PIPE PENETRATION
	PITCH PAN W/ ROOF PENETRATION
	STACK
	STACK ON CURB
	MECHANICAL UNIT
	ROOF PENETRATION
	ROOF ACCESS HATCH
	VENTILATOR
	VENTILATOR
	CAPPED CURB
	GOOSENECK ON ROOF CURB
	CHIMNEY
	CHIMNEY
	MECHANICAL UNIT ON EQUIPMENT SUPPORTS
	EQUIPMENT SUPPORTS
	PARAPET WALL
	LADDER
	ROOF EDGE BELOW ROOF EXPANSION JOINT
	AREA DIVIDER
	LIGHTNING ARRESTOR
	CONDENSATE LINE
	ELECTRICAL LINE
	METAL ROOF



**DRAWING INDEX**

R100	COVER SHEET
R101	GENERAL NOTES
R102	GRANDSTRAND CAMPUS AERIAL PLAN
R201	BUILDING 300 AERIAL PLAN
R202	BUILDING 300 OVERALL COMPLEX PLAN
R203	EXISTING ROOF PLAN AREAS F & G BUILDING 300
R204	ROOF AREAS F & G PHOTOGRAPHS BUILDING 300
R205	NEW ROOF PLAN AREAS F & G BUILDING 300
R206	TAPER ROOF PLAN AREAS F & G BUILDING 300
R301	BUILDING 1000 AERIAL PLAN
R302	BUILDING 1000 OVERALL COMPLEX PLAN
R303	EXISTING ROOF PLAN AREAS B, Bi, & C BUILDING 1000
R304	ROOF AREAS B & Bi PHOTOGRAPHS BUILDING 1000
R305	ROOF AREA C PHOTOGRAPHS BUILDING 1000
R306	EXISTING ROOF PLAN AREAS E, Ei, E2, E3, E4, & F BUILDING 1000
R307	ROOF AREAS E, Ei, & E2 PHOTOGRAPHS BUILDING 1000
R308	ROOF AREAS E2, E4, & F PHOTOGRAPHS BUILDING 1000
R309	EXISTING ROOF PLAN AREAS D, Di, & D2 BUILDING 1000
R310	ROOF AREAS D, Di, & D2 PHOTOGRAPHS BUILDING 1000
R311	NEW ROOF PLAN AREAS B, Bi, & C BUILDING 1000
R312	NEW ROOF PLAN AREAS E, Ei, E2, E3, E4, & F BUILDING 1000
R313	NEW ROOF PLAN AREAS D, Di, & D2 BUILDING 1000
R314	TAPER ROOF PLAN AREAS B, Bi, & C BUILDING 1000
R315	TAPER ROOF PLAN AREAS E, Ei, E2, E3, E4, & F BUILDING 1000
R316	TAPER ROOF PLAN AREAS D, Di, & D2 BUILDING 1000
R401	DETAILS / SECTIONS
R402	DETAILS / SECTIONS
R403	DETAILS / SECTIONS
R404	DETAILS / SECTIONS
R405	DETAILS / SECTIONS
R406	DETAILS / SECTIONS
R501	REPAIR DETAILS / SECTIONS
S001	ABBREVIATIONS
S3-002	BUILDING 300 - DESIGN CRITERIA
S3-101	BUILDING 300 - WIND PRESSURE DIAGRAM
S10-002	BUILDING 1000 - DESIGN CRITERIA
S10-003	BUILDING 1000 - DESIGN CRITERIA
S10-101	BUILDING 1000 - WIND PRESSURE



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS**  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

## COVER SHEET

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

## SUMMARY OF WORK

- A. THE BUILDING WILL REMAIN COMPLETELY FUNCTIONAL AND FULLY PROTECTED AT ALL TIMES DURING THE CONSTRUCTION WORK. ALL INGRESS/EGRESS TO FACILITY AND PEDESTRIAN WALKWAYS MUST BE MAINTAINED WITH OVERHEAD PROTECTION WHEN CONSTRUCTION IS OCCURRING AT/OVER THESE AREAS.
- B. BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 1000, AREAS B, C, D, D1, AND E (294 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
- DEMOLITION OF THE EXISTING ROOFING SYSTEM(S) DOWN TO THE DECK IN ACCORDANCE WITH SECTION 02 04 00, CUTTING AND PATCHING AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
  - MINOR DECK REPAIRS IN ACCORDANCE WITH SECTION 03 60 01, CONCRETE GROUT REPAIR.
  - ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
  - ROOF MEMBRANE, INSULATION, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 55 27, ROOF REPLACEMENT MODIFIED BITUMEN SHEET ROOFING SYSTEM.
  - SHEET METAL, COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 60 00, SHEET METAL.
  - OPTIONAL PRE-MANUFACTURED ACCESSORIES SPECIFIED OR AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SECTION 07 72 00, ROOF ACCESSORIES.
  - ROOF DRAIN REPAIRS IN ACCORDANCE WITH SECTION 07 73 15, ROOF DRAIN REPAIRS/MODIFICATIONS.
  - REPLACEMENT OF SEALANT SYSTEMS FROM THE ROOFING AND SHEET METAL IN ACCORDANCE WITH SECTION 07 92 00, SEALANTS FOR ROOFING AND SHEET METAL.
- C. ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 300, AREAS F AND G (20 SQUARES) AND BUILDING 1000, AREAS F, E1, AND E2 (22 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED. ALTERNATE NUMBER 1 WORK ALSO INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS B1, D2, E3, AND E4 OF BUILDING 1000 (15 SQUARES).
- SEE SPECIFICATION SECTIONS NOTED ABOVE.
  - MODIFICATIONS AND REPAIRS TO LIGHTWEIGHT INSULATING CONCRETE/GYPSUM IN ACCORDANCE WITH SECTION 03 52 00, LIGHTWEIGHT INSULATING CONCRETE/GYPSUM DECK REPAIR.
  - MODIFICATIONS AND REPAIRS/REPLACEMENT TO METAL FORM DECK SYSTEMS IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR/REPLACEMENT.
  - ROOF REPAIRS IN ACCORDANCE WITH SECTION 07 50 00, GENERAL ROOF REPAIRS/MAINTENANCE.
  - COATING SYSTEM FOR IN ACCORDANCE WITH SECTION 07 56 08, FLUID APPLIED ELASTOMERIC COATING SYSTEM (FOR LOW-SLOPED ROOFING).
- D. UNIT PRICES AND ALLOWANCE ARE INCLUDED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCE AND ARE TO BE INCLUDED IN THE BASE BID.

## UNIT PRICE QUANTITIES

- IN ACCORDANCE WITH SECTION 01 11 00, SUMMARY OF WORK, THE CONTRACT DOCUMENTS INCLUDE WITHIN THE BASE BID SPECIFIC QUANTITIES.
  - 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.
- IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCE, THE FOLLOWING DOCUMENTATION IS REQUIRED.
    - THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL REPAIR UNIT PRICED QUANTITIES USED BASED ON CONTRACT REQUIREMENTS.
    - CONTRACTOR SHALL NOTIFY OWNER IN WRITING WHEN 80% OF QUANTITY IS USED FOR EACH UNIT PRICE ITEM.
    - 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.
    - PROVIDE PHOTOGRAPH OR VIDEOTAPE DOCUMENTATION OF REPAIRS AND ACTUAL QUANTITIES USED.
    - LOCATE QUANTITIES AND SHOW THEIR LOCATIONS ON DRAWINGS.
    - PROVIDE ACTUAL USED QUANTITIES ON EACH APPLICATION FOR PAYMENT REQUEST.
  - 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

- 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.
- 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.
- REMOVE ALL WOOD BLOCKING FOR PIPE SUPPORTS, CONDUITS, EQUIPMENT, AND JUNCTION BOXES, AND REPLACE PER DETAILS.
- EXTEND/RAISE ALL PENETRATIONS, CURBS, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS TO A MINIMUM 8" ABOVE THE FINISHED ROOF SURFACE.
- A MINIMUM DISTANCE OF 12 INCHES SHALL EXIST BETWEEN ANY AND ALL PENETRATIONS AND/OR TERMINATIONS.
- USE ROUND SHAPES TO CONSTRUCT EQUIPMENT SUPPORTS AND DO NOT USE PITCH PANS.
- INSTALL NEW GRAY PVC CONDENSATE LINES WITH "P-TRAPS" ROUTED INTO DRAINS/GUTTERS FROM HVAC UNITS.
- ANY LOCATIONS/CONDITIONS WHERE THE ABOVE REQUIREMENTS CANNOT BE MET, SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT/ENGINEER AND OWNER IMMEDIATELY.

## CONSTRUCTION NOTES

- SUBSTRATE SHALL BE INSPECTED AND REPAIRED AS SPECIFIED PRIOR TO SYSTEM INSTALLATION.
- 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 ALLOWANCE, AND SECTION 06 10 00, ROUGH CARPENTRY.
- 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.
- 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).
- ALL FLASHING TERMINATIONS SHALL HAVE CONFORMING WATERTIGHT SHEET METAL CLOSURES, AND WATERPROOF UNDERLAYMENT ALL SHEETMETAL BELOW WITH SEALED LAPS.
- SPECIFIC AND TYPICAL DETAILS ARE PROVIDED WITH GENERIC TYPE DECK SHOWN. TYPICAL DETAILS APPLY TO ALL INSTANCES WHERE SIMILAR CONDITION OCCURS.
- ALL WORK SHALL BE CONDUCTED IN A SUBSTANTIAL WORKMANLIKE MANNER IN ACCORDANCE WITH SPECIFIED REQUIREMENTS.
- INSTALL TAPERED CRICKETS TO PROVIDE POSITIVE DRAINAGE ON THE UPSLOPE SIDE OF ALL NON-ROUND PENETRATIONS GREATER THAN 24" WIDE.
- 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.

## IBC/CODE ANALYSIS

- INTERNATIONAL BUILDING CODE (IBC), 2021
  - IBC 2021, CHAPTER 15, ROOF ASSEMBLIES AND ROOF TOP STRUCTURES
- INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2021

## GENERAL NOTES

- 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.
- ALL BUILDING DIMENSIONS, EXISTING CONDITIONS, ITEM LOCATIONS, AND SIZE AND QUANTITY OF PENETRATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BID.
- LAYDOWN / STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.
- SITE SHALL BE CLEANED ON A DAILY BASIS AND SECURED AT THE END OF EACH WORK DAY.
- BUILDING ACCESS SHALL BE COORDINATED WITH THE OWNER AND SHALL BE ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK.

## DEMOLITION NOTES

- 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.
- 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.
- BUILDING ENVELOPE DEMOLITION IS REQUIRED TO THE VARIOUS COMPONENTS AND SYSTEMS TO COMPLETE THE REQUIRED REPAIRS, MODIFICATIONS AND REPLACEMENTS OF THIS PROJECT.
- REMOVE IDENTIFIED ABANDONED PENETRATIONS SHOWN ON DRAWINGS.
- EXISTING NAILERS AND BLOCKING SHALL BE ADDRESSED PER CONSTRUCTION NOTES.
- 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.
- 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 CONSULTANT AND/OR THE OWNER.
- ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 05.
- THE LIGHTNING PROTECTION SYSTEM SHALL BE TEMPORARILY DISCONNECTED AND REMOVED, EACH DAY IN THE AREA OF WORK, AND RECONNECTED AT THE END OF THAT DAY. IF ANY DAMAGES, MISSING COMPONENTS, OR ISSUES ARE ENCOUNTERED, CONTRACTOR IS TO DOCUMENT AND NOTIFY OWNER/THE BEE GROUP IMMEDIATELY.

## PROTECTION NOTES

- FACILITIES MAY BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE FACILITY, CONTENTS, AND OCCUPANTS.
- THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAY'S WORK AND WHEN INCLEMENT WEATHER THREATENS.
- 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.
- 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.
- WORK SHALL BE SEQUENCED TO MINIMIZE TRAFFIC ON THE NEW WORK.



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



Horry-Georgetown Technical College  
 REBID REPAIR/REPLACE ROOFING  
 SYSTEMS GRAND STRAND CAMPUS

OWNER PROJECT NUMBER: H59-0229-PD  
 BEE PROJECT NUMBER: 23010C

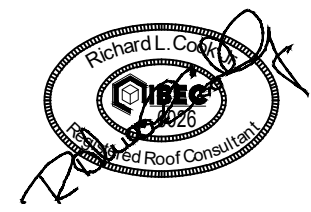
MYRTLE BEACH, SOUTH CAROLINA

DATE: 03/12/2024  
 BEE PROJECT #: 23010C  
 DESIGNED: RLC  
 CHECKED: JCG  
 DRAWN: KAM  
 REVISION: 05/21/2024

## GENERAL NOTES

**LEGEND**

TOTAL ROOF REPLACEMENT BUILDINGS 300 & 1000



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS**

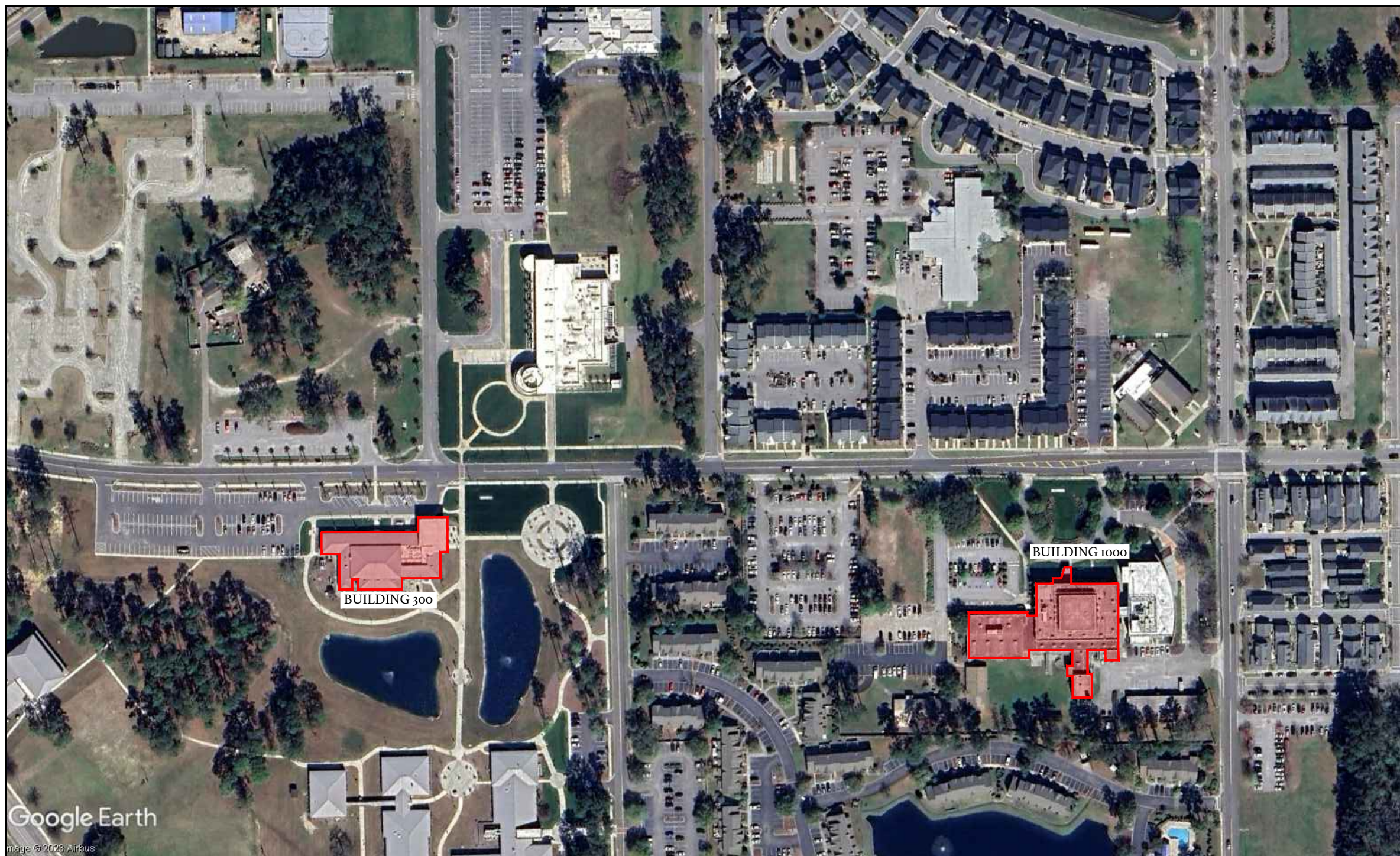
OWNER PROJECT NUMBER: H59-0229-PD  
 BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**GRAND STRAND CAMPUS AERIAL PLAN**

RI02



**ALTERNATE #1:**

- ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 300, AREAS F AND G (20 SQUARES) AND BUILDING 1000, AREAS F, E1, AND E2 (22 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED. ALTERNATE NUMBER 1 WORK ALSO INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS B1, D2, E3, AND E4 OF BUILDING 1000 (15 SQUARES).

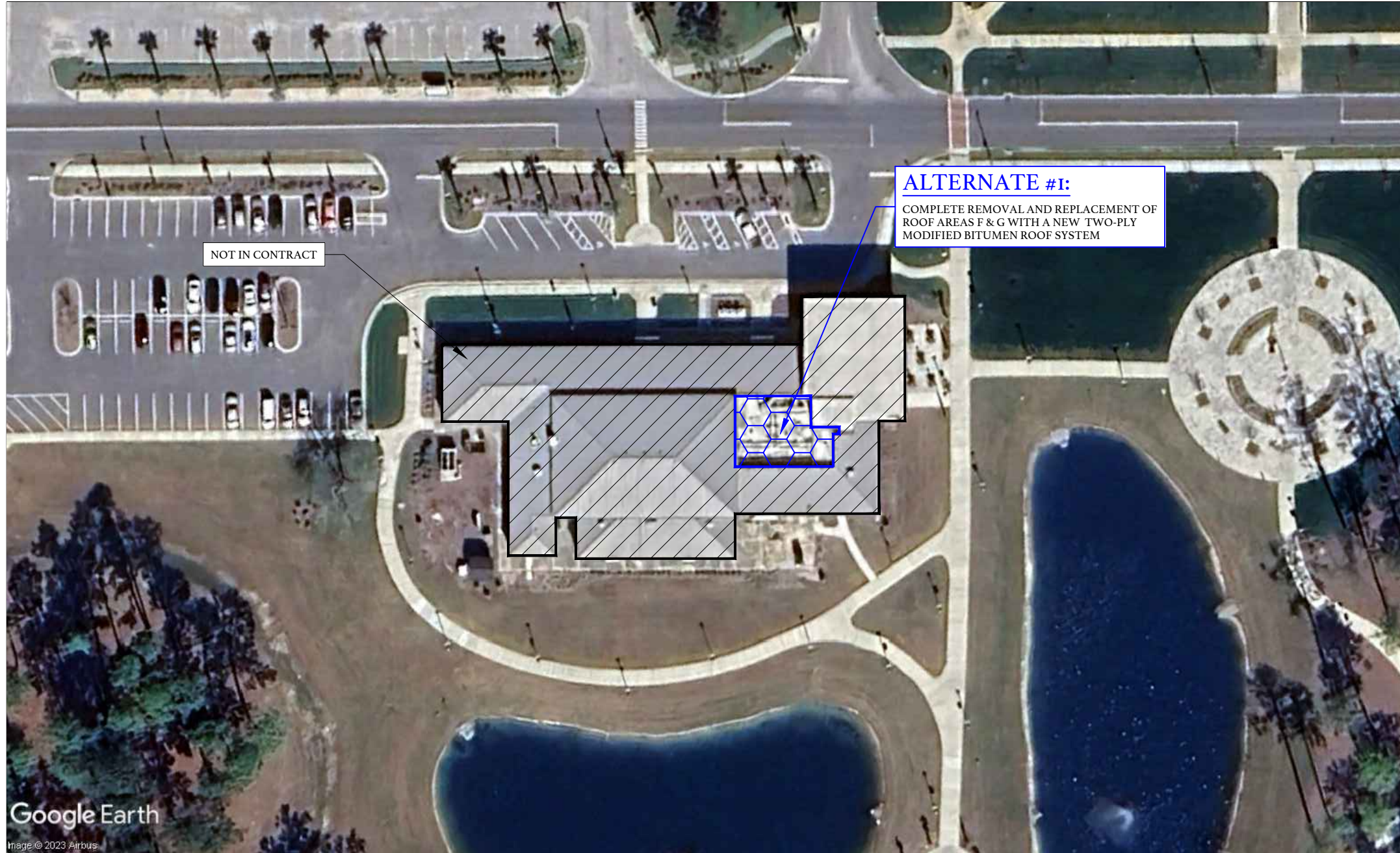
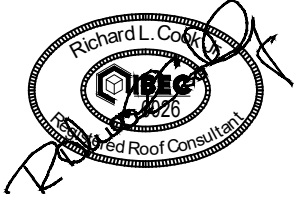
**BASE BID:**

- BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 1000, AREAS B, C, D, D1, AND E (294 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.

**GRAND STRAND CAMPUS AERIAL PLAN**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

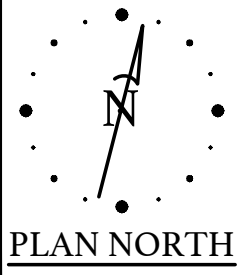


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 300

OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3659 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

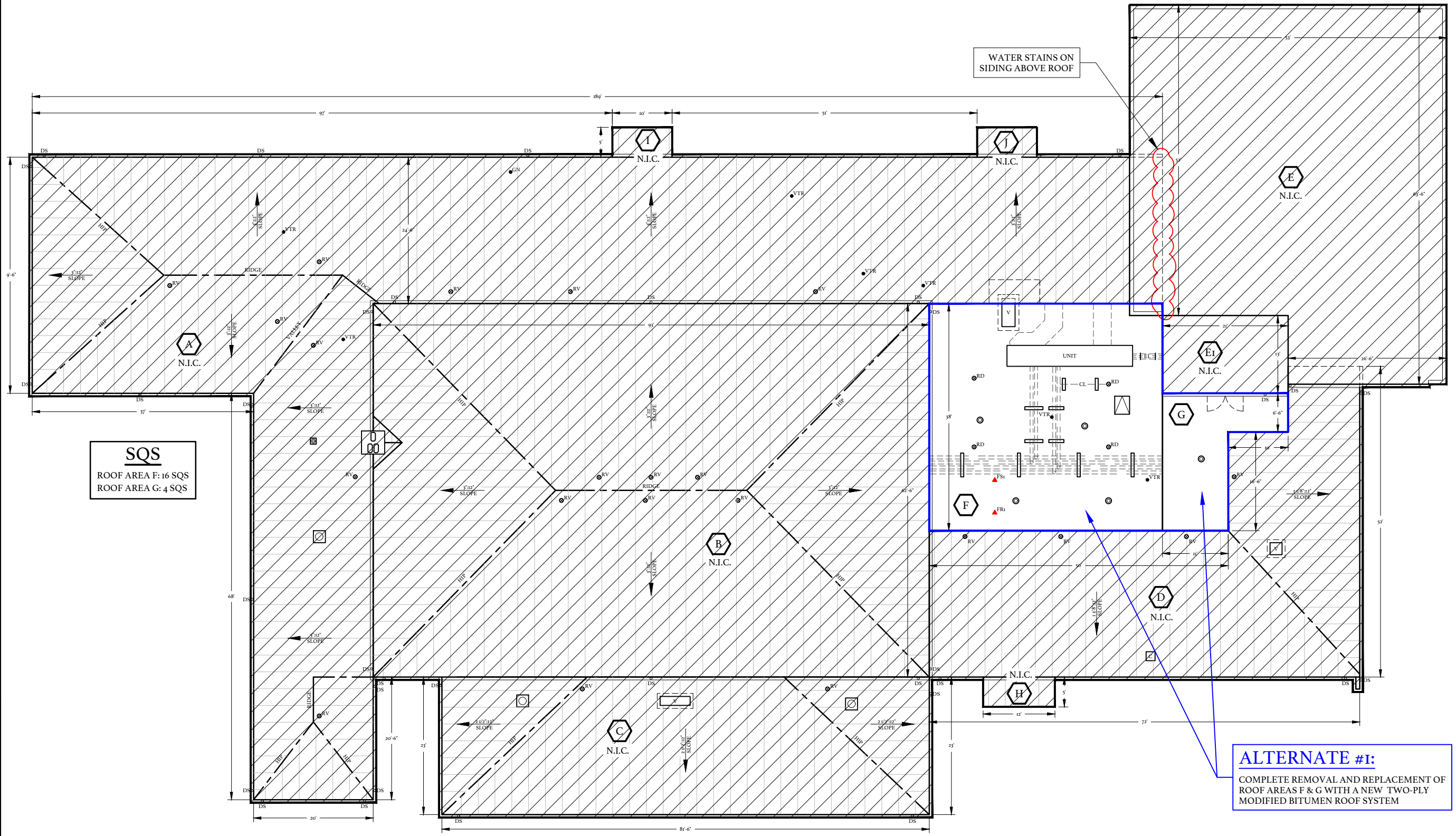
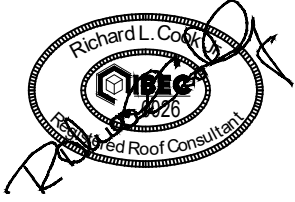
**BUILDING 300**  
**AERIAL PLAN**



**BUILDING 300**  
**AERIAL PLAN**

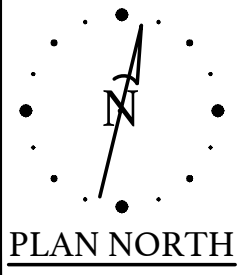
R201

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



**SQS**  
ROOF AREA F: 16 SQS  
ROOF AREA G: 4 SQS

**ALTERNATE #1:**  
COMPLETE REMOVAL AND REPLACEMENT OF  
ROOF AREAS F & G WITH A NEW TWO-PLY  
MODIFIED BITUMEN ROOF SYSTEM



**BUILDING 300  
OVERALL COMPLEX PLAN**

**NOT TO SCALE**

HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 300**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3659 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**BUILDING 300  
OVERALL  
COMPLEX PLAN**

R202

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

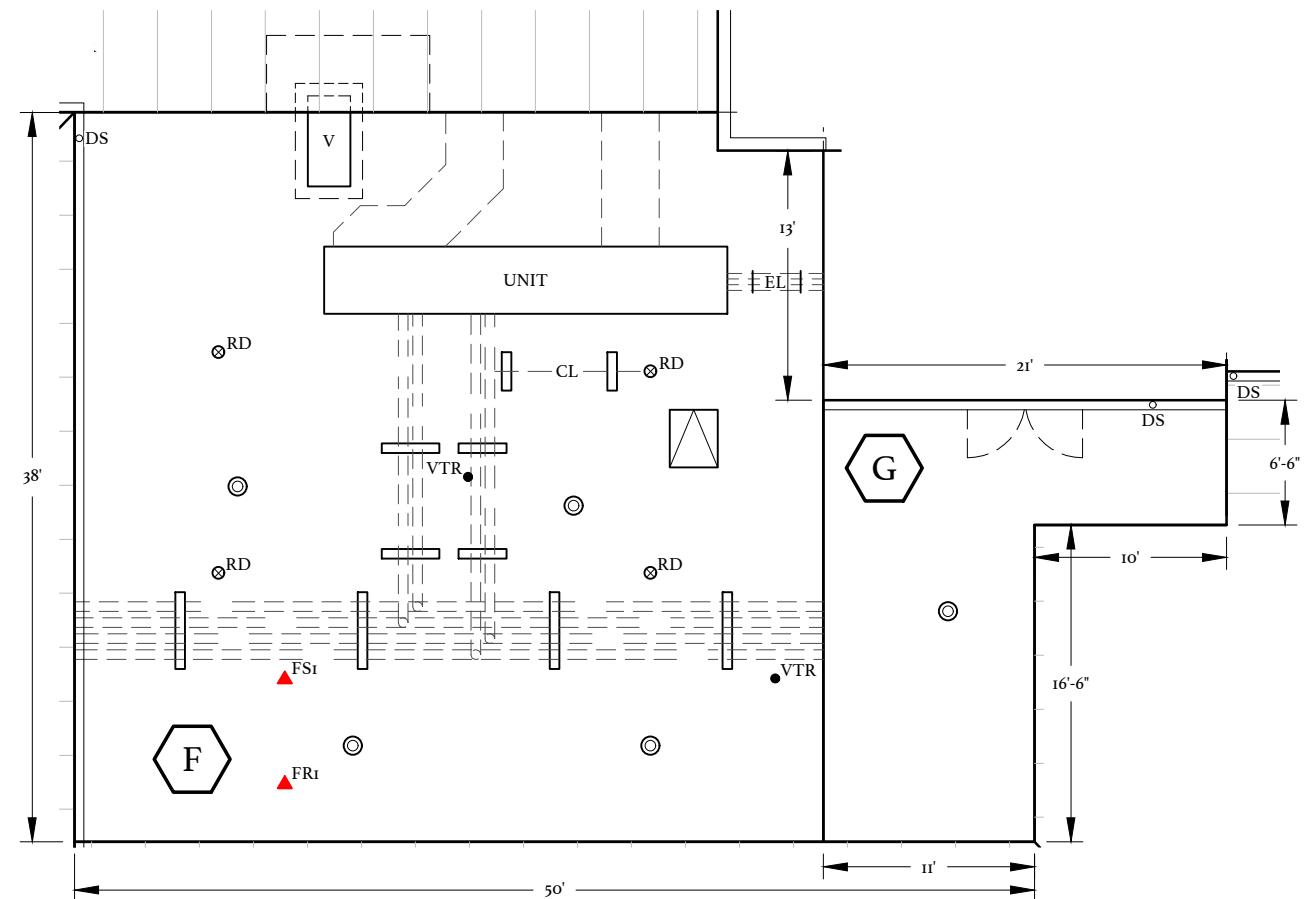
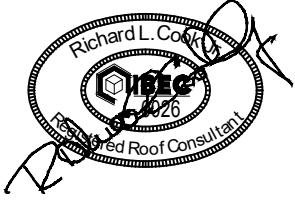
### CORE SAMPLE SUMMARY

- 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.

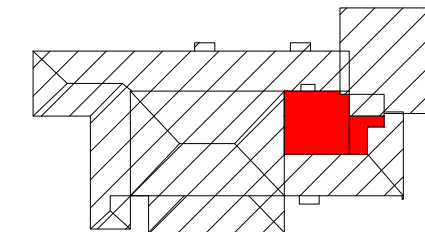
ITEM	DESCRIPTION
FR1-	SINGLE PLY ROOF MEMBRANE (WITH ELASTOMERIC COATING IN AREAS) POLYISOCYANURATE (TAPERED) GRAVEL SURFACED BUILT UP ROOF POUR GYPSUM DECK OVER GYPSUM FORMBOARD ON BULB TEES TOTAL THICKNESS = 5"
FS1-	TOTAL THICKNESS = 3 1/2"
AREA G -	SAME ASSEMBLY AS AREA F



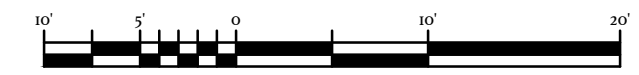
1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



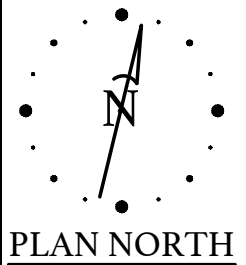
**EXISTING ROOF PLAN**  
**AREAS F & G**  
**BUILDING 300**



**KEY PLAN**



**GRAPHIC SCALE**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 300**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3659 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**EXISTING ROOF**  
**PLAN AREAS**  
**F & G**  
**BUILDING 300**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



PHOTO #1  
ROOF AREA F



PHOTO #2  
ROOF AREA F



PHOTO #3  
ROOF AREA F



PHOTO #4  
ROOF AREA F



PHOTO #5  
ROOF AREA F



PHOTO #6  
ROOF AREA F



PHOTO #7  
ROOF AREA F



PHOTO #8  
ROOF AREA F



PHOTO #9  
ROOF AREA F



PHOTO #10  
ROOF AREA G



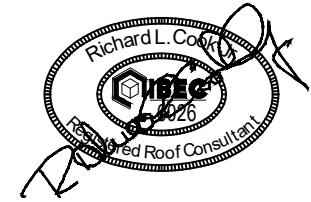
PHOTO #11  
ROOF AREA G



PHOTO #12  
ROOF AREA G

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

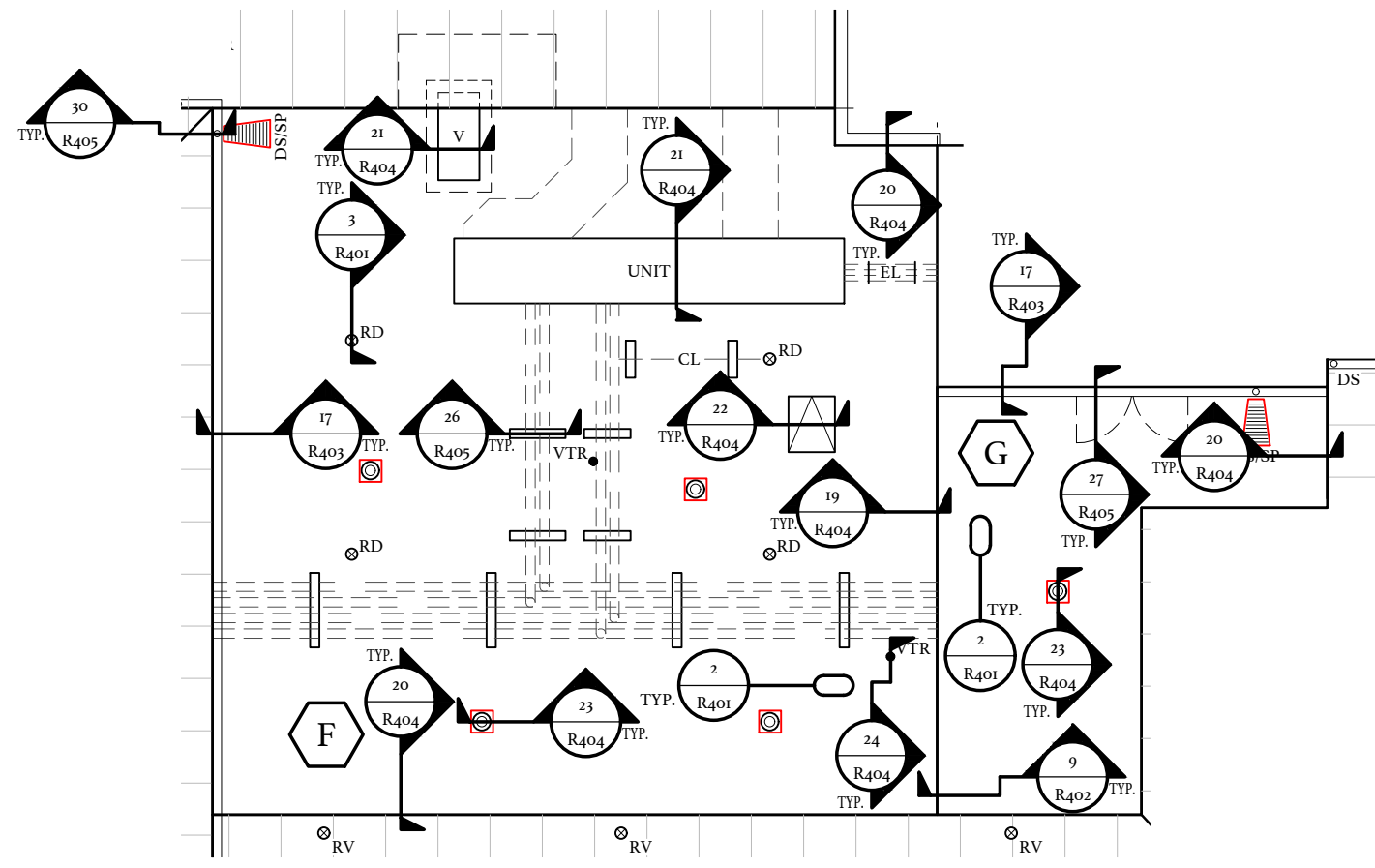
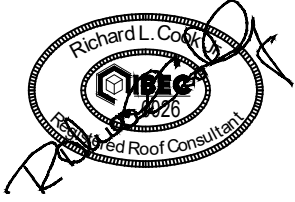


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 300**  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3659 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

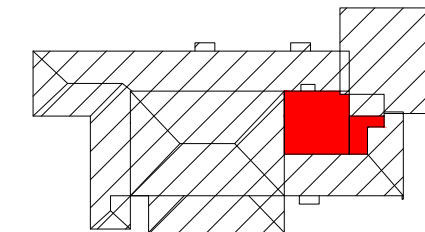
**ROOF AREAS  
F, & G  
PHOTOGRAPHS  
BUILDING 300**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

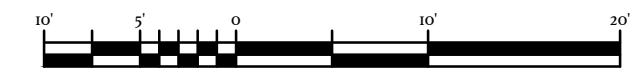


- NOTES:**
1. SPLASH PANS ARE REQUIRED AT ALL DOWNSPOUT LOCATIONS.
  2. EXISTING METAL WALL PANELS ARE TO BE REUSED. MODIFY AS NEEDED TO ACCOMMODATE NEW ROOF HEIGHTS/TAPER INSULATION THICKNESS AND TWO PIECE COUNTER FLASHING.

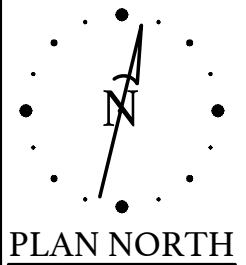
**NEW ROOF PLAN  
AREAS F & G  
BUILDING 300**



**KEY PLAN**



**GRAPHIC SCALE**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 300**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3659 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

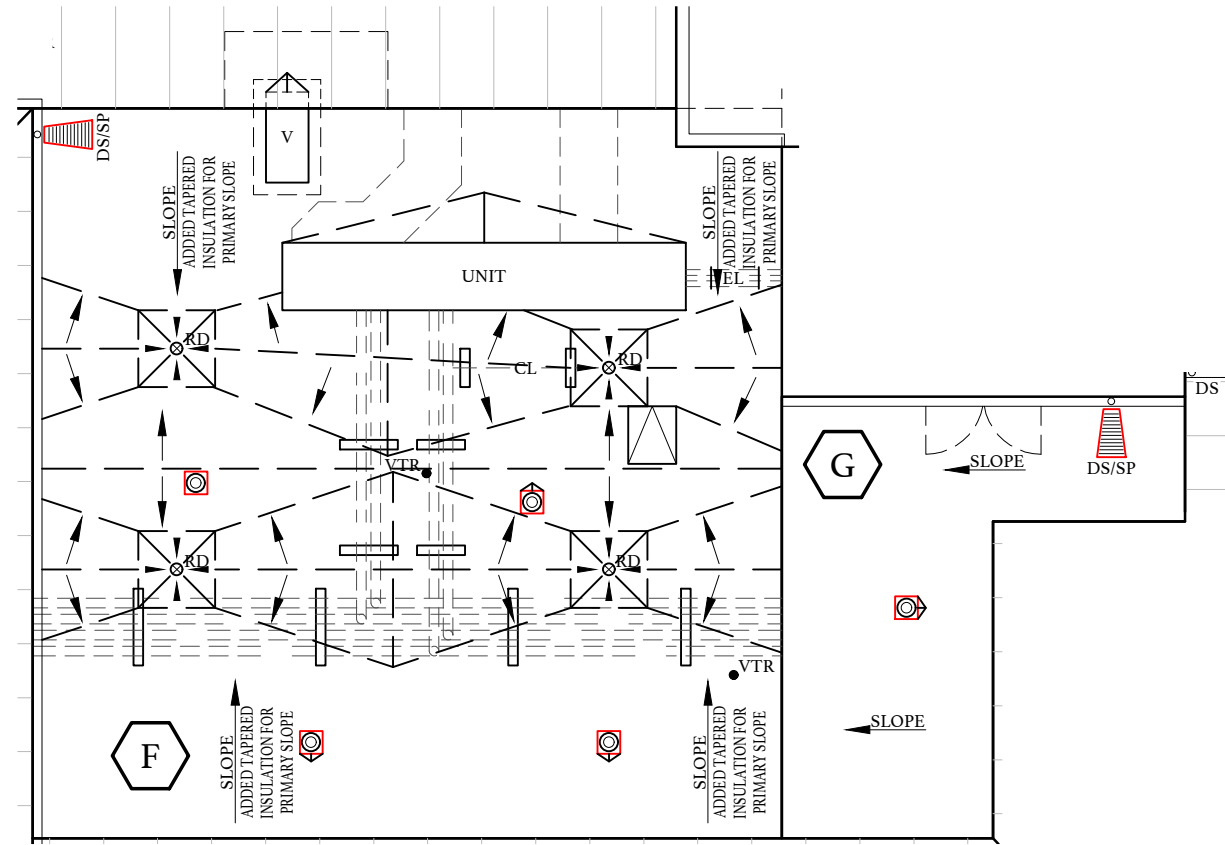
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**NEW ROOF  
PLAN AREAS  
F & G  
BUILDING 300**

R205



\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

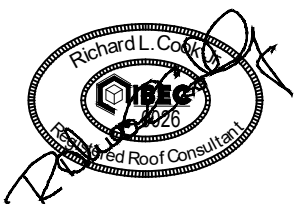


**TAPERED INSULATION NOTES**

1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHERWISE WHERE 2X PRIMARY SLOPE SHALL BE PROVIDED.
  - A. ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4 INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
  - A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
  - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
  - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
  - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
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.
  - A. TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
  - B. DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



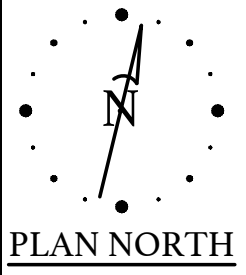
Horry-Georgetown Technical College  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 300**  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 3659 PAMPAS DRIVE  
 MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

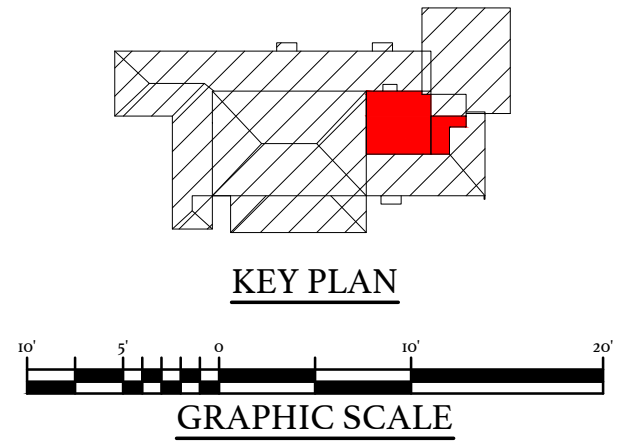
**TAPER ROOF**  
**PLAN AREAS**  
**F & G**  
**BUILDING 300**

R206

SHEET 9 OF 38



**TAPER ROOF PLAN**  
**AREAS F & G**  
**BUILDING 300**



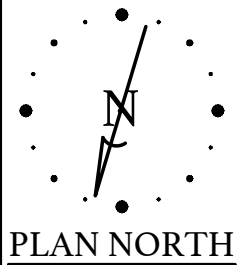
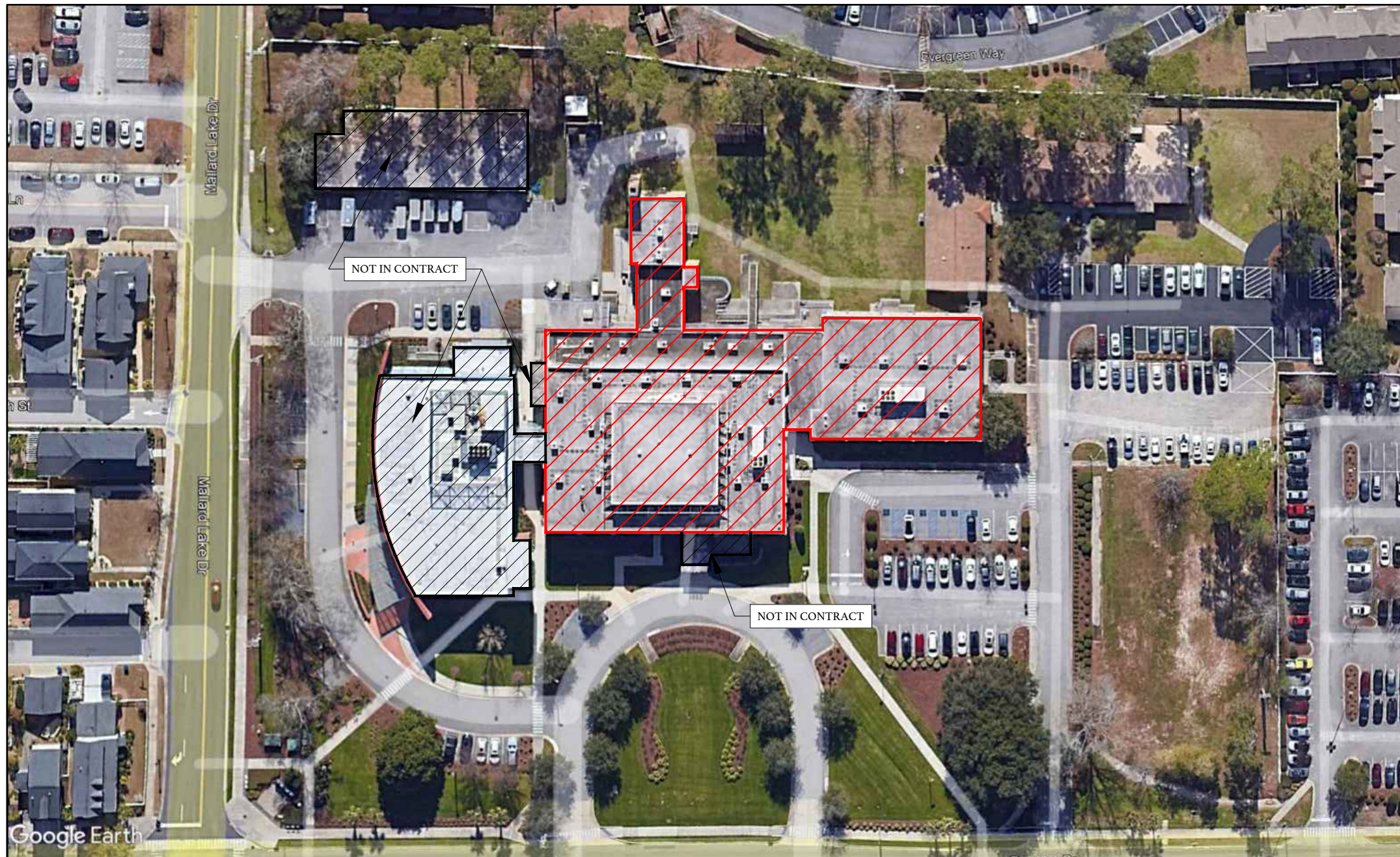
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

**BASE BID:**

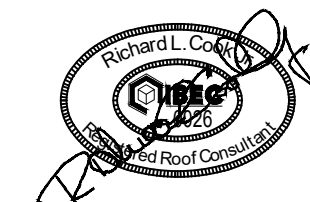
- 1. BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 1000, AREAS B, C, D, D1, AND E (294 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.

**ALTERNATE #1:**

- 1. ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR BUILDING 300, AREAS F AND G (20 SQUARES) AND BUILDING 1000, AREAS F, E1, AND E2 (22 SQUARES). ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED. ALTERNATE NUMBER 1 WORK ALSO INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS B1, D2, E3, AND E4 OF BUILDING 1000 (15 SQUARES).



**BUILDING 1000  
AERIAL PLAN**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000**

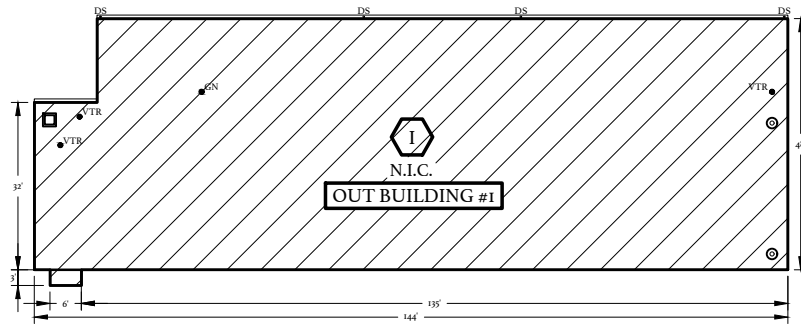
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**BUILDING 1000  
AERIAL PLAN**

R301

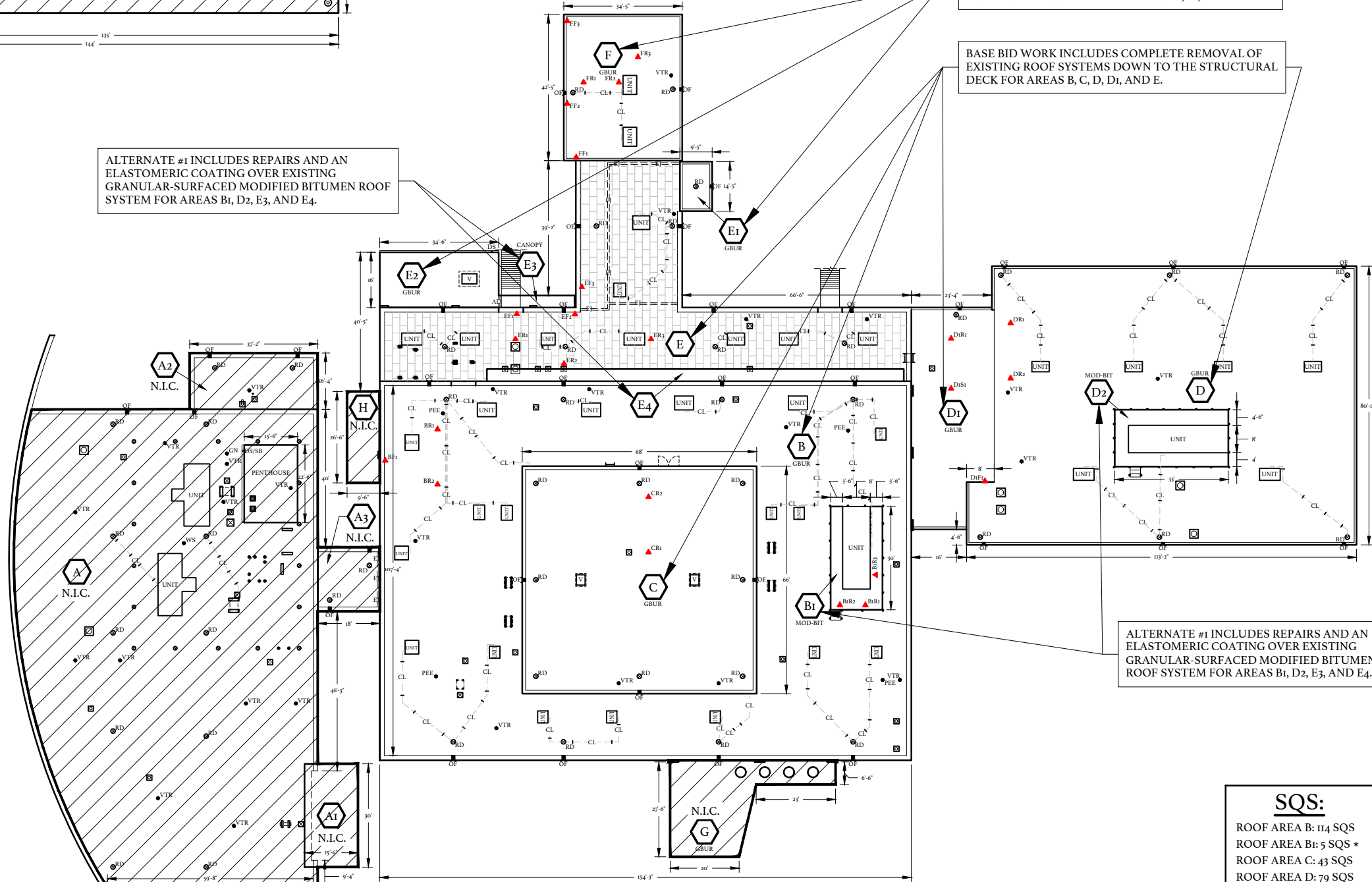
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS B1, D2, E3, AND E4.

ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS F, E1, AND E2.

BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS B, C, D, D1, AND E.

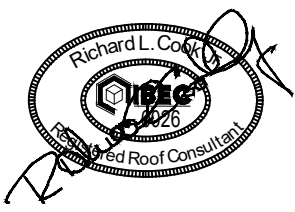


ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS B1, D2, E3, AND E4.

SQS: ROOF AREA B: 114 SQS ROOF AREA B1: 5 SQS \* ROOF AREA C: 43 SQS ROOF AREA D: 79 SQS ROOF AREA D1: 15 SQS ROOF AREA D2: 4 SQS \* ROOF AREA E: 43 SQS ROOF AREA E1: 2 SQS ROOF AREA E2: 6 SQS ROOF AREA E3: 1 SQS \* ROOF AREA E4: 5 SQS \* ROOF AREA F: 14 SQS \* REPAIR/COATING

NOT TO SCALE

BUILDING 1000 OVERALL COMPLEX PLAN

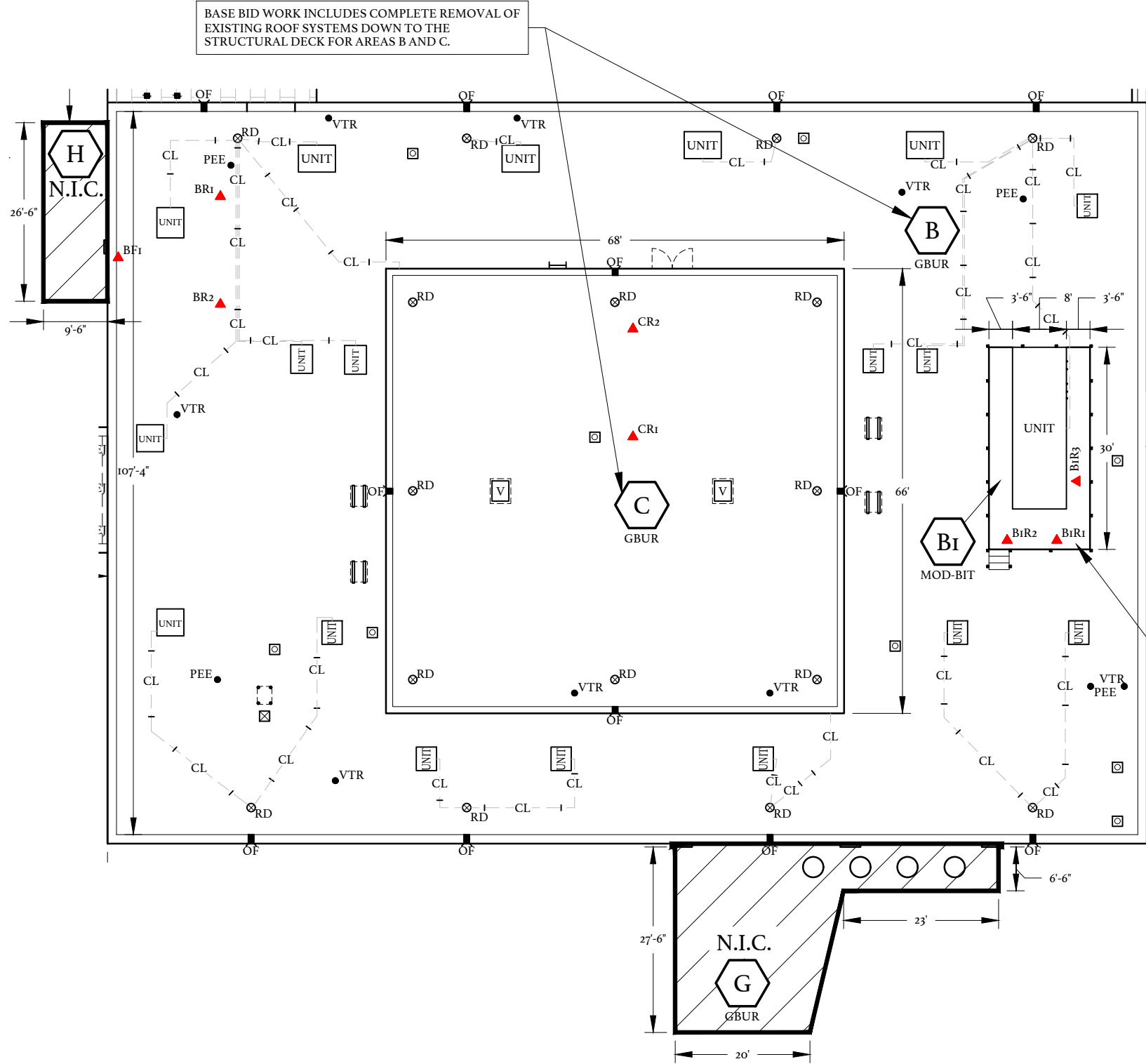


HORRY-GEORGETOWN TECHNICAL COLLEGE REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS BUILDING 1000 OWNER PROJECT NUMBER: H59-0229-PD BEE PROJECT NUMBER: 23010C 3501 PAMPAS DRIVE MYRTLE BEACH, SOUTH CAROLINA

Table with project metadata: DATE: 03/12/2024, BEE PROJECT #: 23010C, DESIGNED: RLC, CHECKED: JCG, DRAWN: KAM, REVISION: 05/21/2024

BUILDING 1000 OVERALL COMPLEX PLAN

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



### CORE SAMPLE SUMMARY

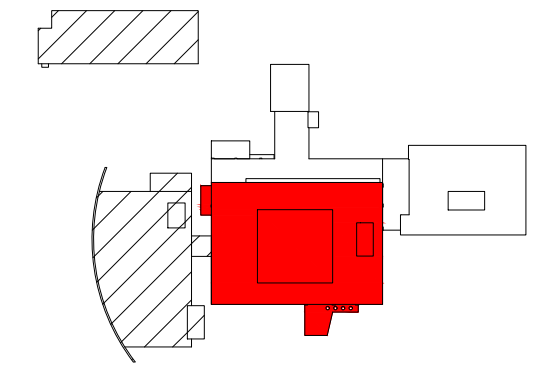
A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.

B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

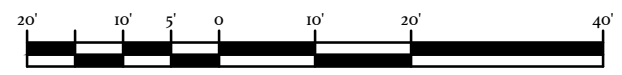
ITEM	DESCRIPTION
BR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 4 3/4" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 5 3/4"
BR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 9 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 10 1/2"
BiR1-	GRANULAR SURFACED MODBIT PERLITE - 3/4" BASE SHEET WOOD DECK TOTAL THICKNESS = 1 3/4"
BiR2-	SAME AS BiR1
BiR3-	SAME AS BiR1
CR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 8" (MULTIPLE LAYERS) VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 9"
CR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1 1/2" POLYISOCYANURATE - 2 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 4 1/2"

ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREA Bi.

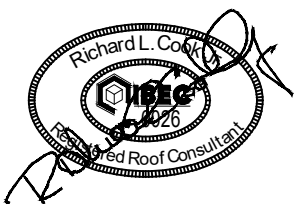
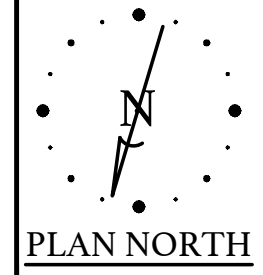
**EXISTING ROOF PLAN**  
**AREAS B, Bi, & C**  
**BUILDING 1000**



**KEY PLAN**



**GRAPHIC SCALE**



**HORRY-GEORGETOWN TECHNICAL COLLEGE**  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 1000**

OWNER PROJECT NUMBER: H59-0229-PD  
 BEE PROJECT NUMBER: 23010C  
 3501 PAMPAS DRIVE  
 MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**EXISTING ROOF PLAN AREAS**  
**B, Bi, & C**  
**BUILDING 1000**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



PHOTO # 1  
ROOF AREA B



PHOTO # 2  
ROOF AREA B



PHOTO # 3  
ROOF AREA B



PHOTO # 4  
ROOF AREA B



PHOTO # 5  
ROOF AREA B



PHOTO # 6  
ROOF AREA B



PHOTO # 7  
ROOF AREA B



PHOTO # 8  
ROOF AREA B



PHOTO # 9  
ROOF AREA B

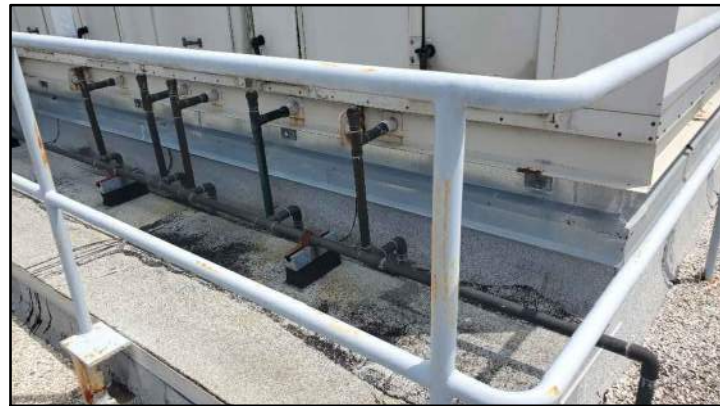


PHOTO # 10  
ROOF AREA B1



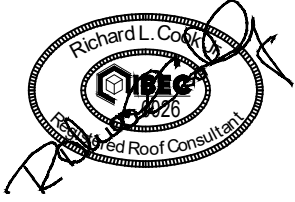
PHOTO # 11  
ROOF AREA B1



PHOTO # 12  
ROOF AREA B1

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

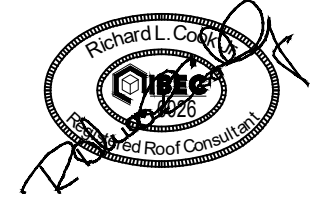


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 1000**  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**ROOF AREAS**  
**B & B1**  
**PHOTOGRAPHS**  
**BUILDING 1000**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**ROOF AREA C  
PHOTOGRAPHS  
BUILDING 1000**



PHOTO # 13  
ROOF AREA C



PHOTO # 14  
ROOF AREA C



PHOTO # 15  
ROOF AREA C



PHOTO # 16  
ROOF AREA C



PHOTO # 17  
ROOF AREA C



PHOTO # 18  
ROOF AREA C



PHOTO # 19  
ROOF AREA C

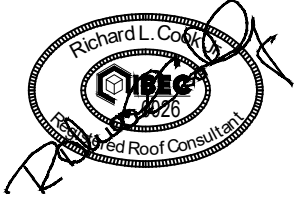


PHOTO # 20  
ROOF AREA C



PHOTO # 21  
ROOF AREA C

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS BUILDING 1000**

OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

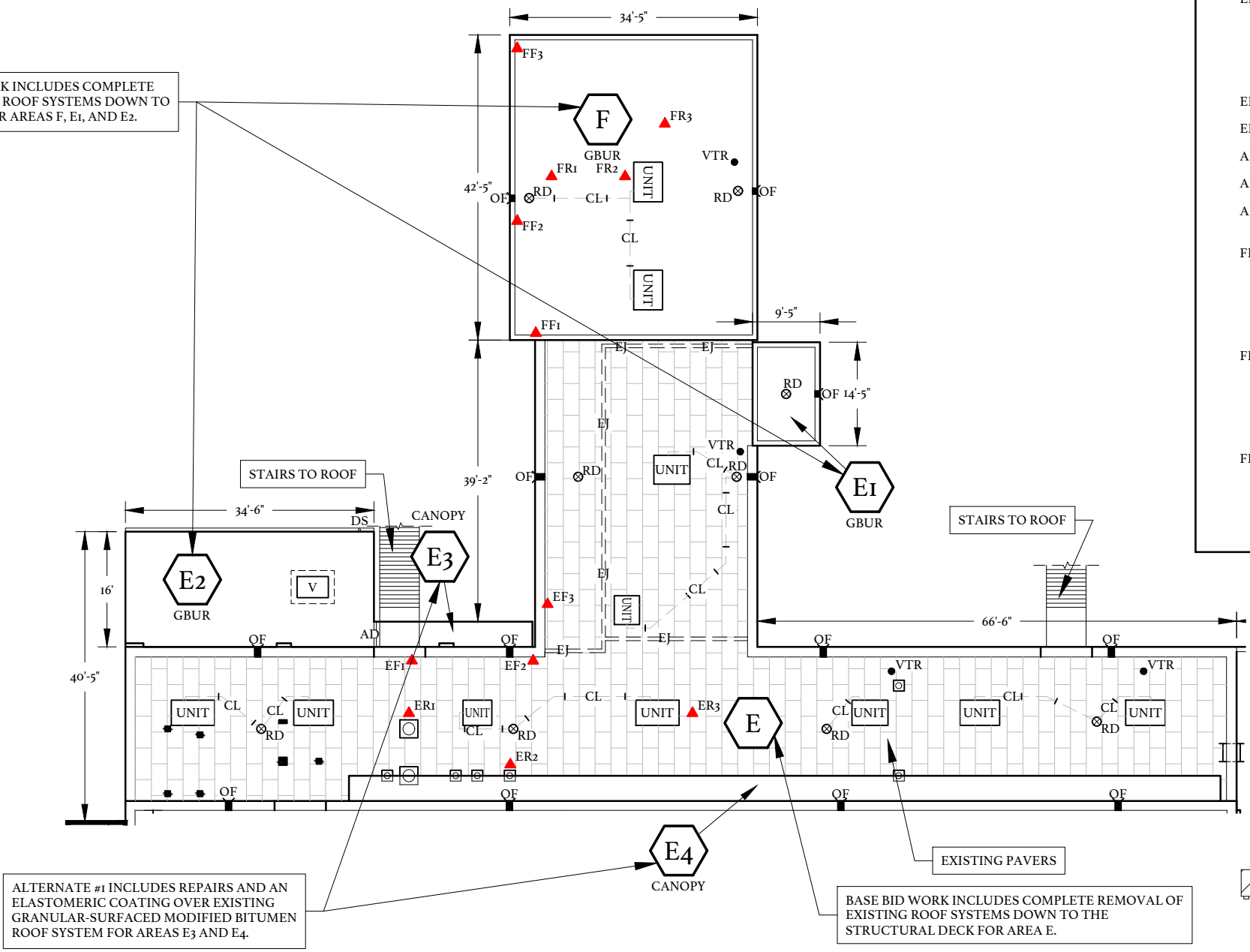
**EXISTING ROOF PLAN AREAS E, E1, E2, E3, E4, & F BUILDING 1000**

**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.

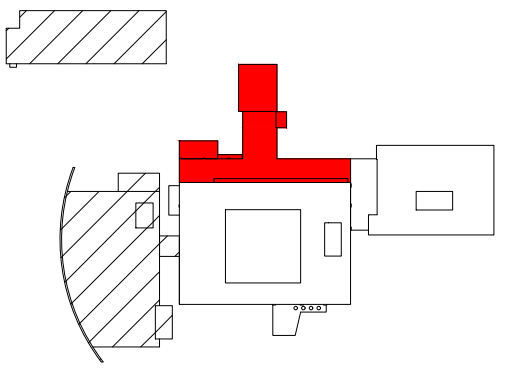
ITEM	DESCRIPTION
ER1-	PAVERS BUILT UP ROOF MEMBRANE PERLITE BUILT UP ROOF MEMBRANE CONCRETE DECK TOTAL THICKNESS = 1 1/2"
ER2-	SAME AS ER1
ER3-	SAME AS ER1
AREA E1-	SAME ASSEMBLY AS AREA F
AREA E2-	SAME ASSEMBLY AS AREA F
AREA E3-	MODIFIED BITUMEN MEMBRANE CONCRETE DECK
FR1-	GRAVEL OVER MODIFIED BITUMEN MEMBRANE PERLITE - 1 1/2" POLYISOCYANURATE - 5 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 7 1/2"
FR2-	GRAVEL OVER MODIFIED BITUMEN MEMBRANE PERLITE - 1 1/2" POLYISOCYANURATE - 2 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 4 1/2"
FR3-	GRAVEL OVER MODIFIED BITUMEN MEMBRANE PERLITE - 1 1/2" POLYISOCYANURATE - 2 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 4 1/2"

ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS F, E1, AND E2.

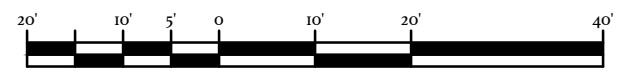


ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS E3 AND E4.

BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREA E.

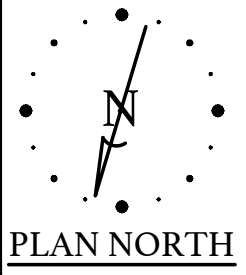


**KEY PLAN**



**GRAPHIC SCALE**

**EXISTING ROOF PLAN AREAS E, E1, E2, E3, E4, & F BUILDING 1000**



**PLAN NORTH**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



PHOTO # 1  
ROOF AREA E



PHOTO # 2  
ROOF AREA E



PHOTO # 3  
ROOF AREA E



PHOTO # 4  
ROOF AREA E



PHOTO # 5  
ROOF AREA E



PHOTO # 6  
ROOF AREA E



PHOTO # 7  
ROOF AREA E



PHOTO # 8  
ROOF AREA E



PHOTO # 9  
ROOF AREA E1



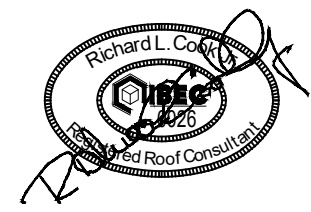
PHOTO # 10  
ROOF AREA E1



PHOTO # 11  
ROOF AREA E2



PHOTO # 12  
ROOF AREA E2



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 1000**  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**ROOF AREAS**  
**E, E1, & E2**  
**PHOTOGRAPHS**  
**BUILDING 1000**



\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



PHOTO # 13  
ROOF AREA E3

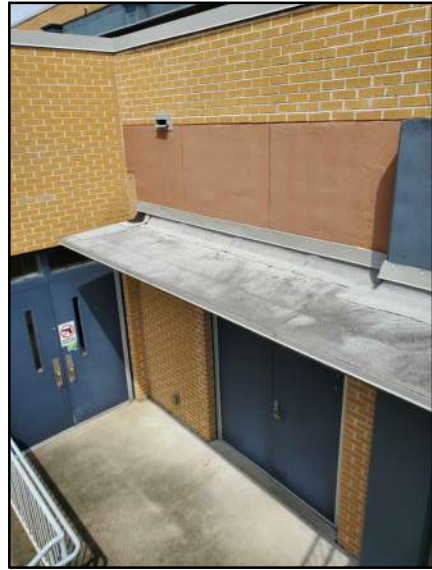


PHOTO # 14  
ROOF AREA E3



PHOTO # 15  
ROOF AREA E3



PHOTO # 16  
ROOF AREA E4



PHOTO # 17  
ROOF AREA E4

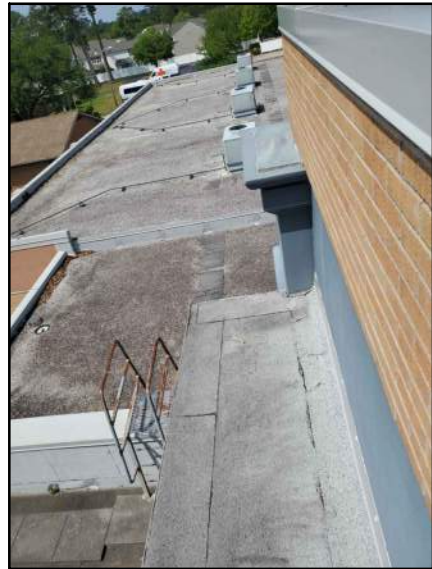


PHOTO # 18  
ROOF AREA E4



PHOTO # 19  
ROOF AREA F



PHOTO # 20  
ROOF AREA F



PHOTO # 21  
ROOF AREA F



PHOTO # 22  
ROOF AREA F

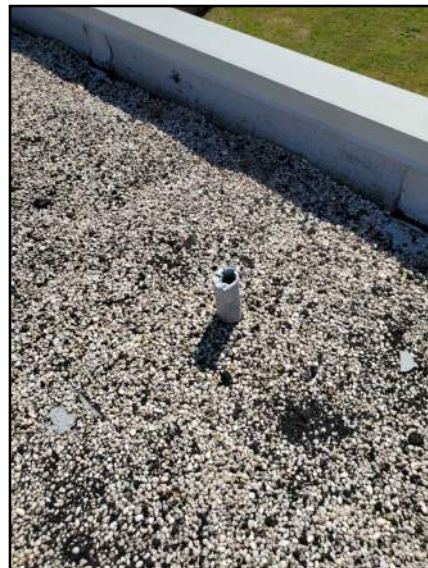


PHOTO # 23  
ROOF AREA F

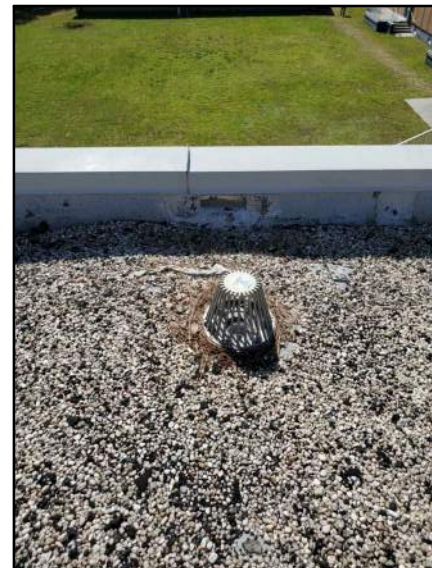
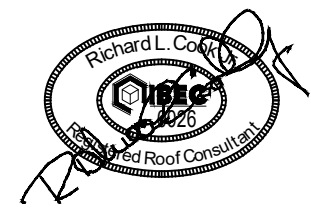


PHOTO # 24  
ROOF AREA F



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000**

OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**ROOF AREAS  
E3, E4, & F  
PHOTOGRAPHS  
BUILDING 1000**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

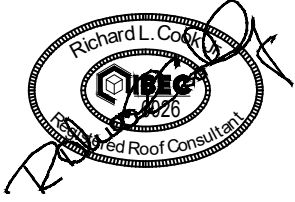
### CORE SAMPLE SUMMARY

- 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
DR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 4"
DR2-	SAME AS DR1
DI1-	SAME AS DR1
DI1-	TOTAL THICKNESS = 4"

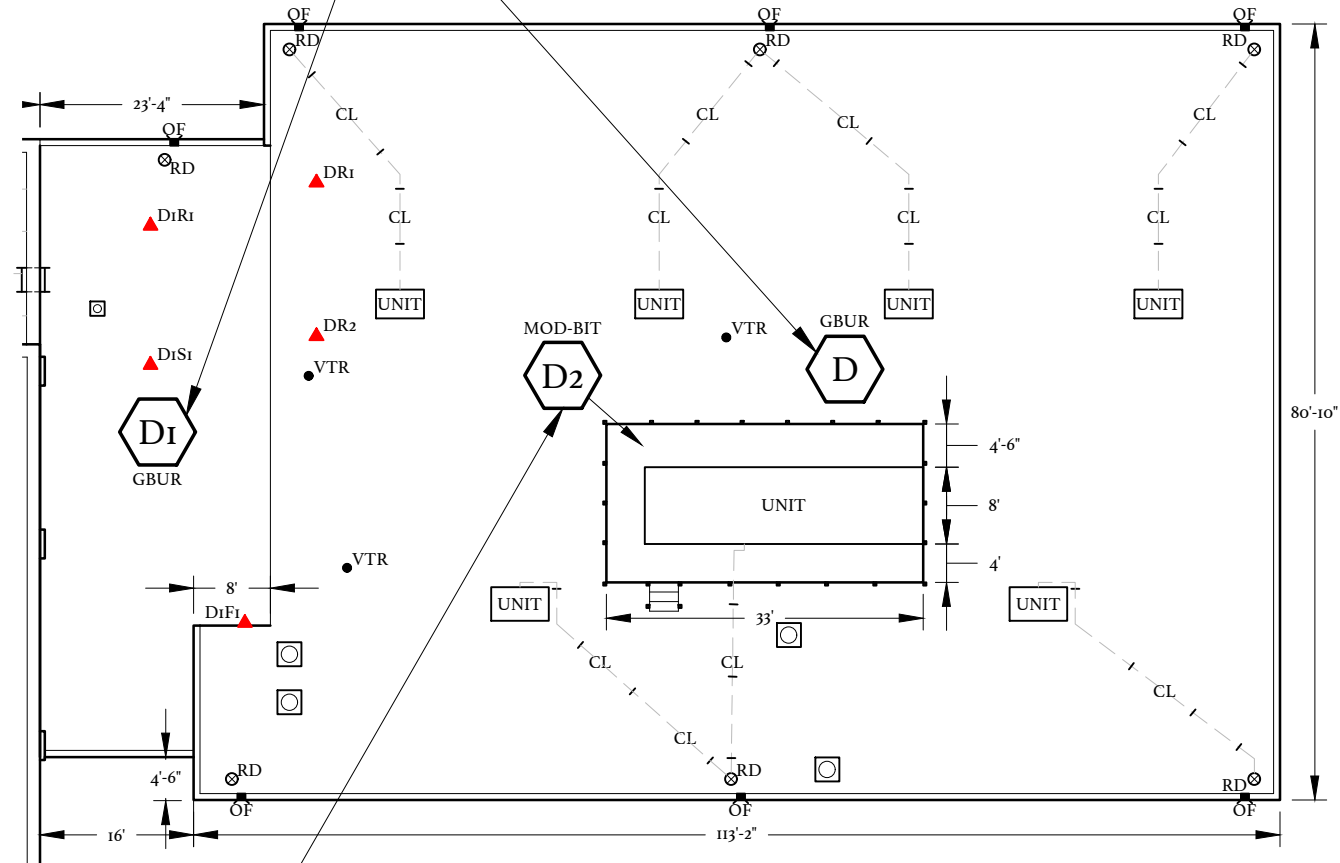


1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

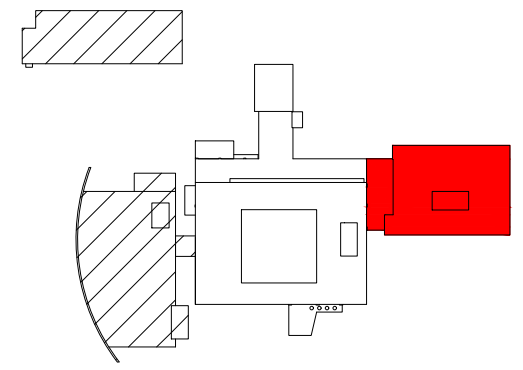


BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS D AND D1.

ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREA D2.



**EXISTING ROOF PLAN  
AREAS D, D1, & D2  
BUILDING 1000**



**KEY PLAN**

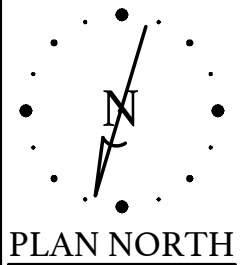


**GRAPHIC SCALE**

HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
 SYSTEMS GRAND STRAND CAMPUS  
 BUILDING 1000**  
 OWNER PROJECT NUMBER: H59-0229-PD  
 BEE PROJECT NUMBER: 23010C  
 3501 PAMPAS DRIVE  
 MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**EXISTING ROOF  
PLAN AREAS  
D, D1, & D2  
BUILDING 1000**



**PLAN NORTH**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



PHOTO # 1  
ROOF AREA D



PHOTO # 2  
ROOF AREA D



PHOTO # 3  
ROOF AREA D



PHOTO # 4  
ROOF AREA D



PHOTO # 5  
ROOF AREA D



PHOTO # 6  
ROOF AREA D



PHOTO # 7  
ROOF AREA D1



PHOTO # 8  
ROOF AREA D1



PHOTO # 9  
ROOF AREA D1



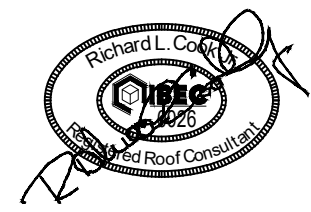
PHOTO # 10  
ROOF AREA D2



PHOTO # 11  
ROOF AREA D2



PHOTO # 12  
ROOF AREA D2

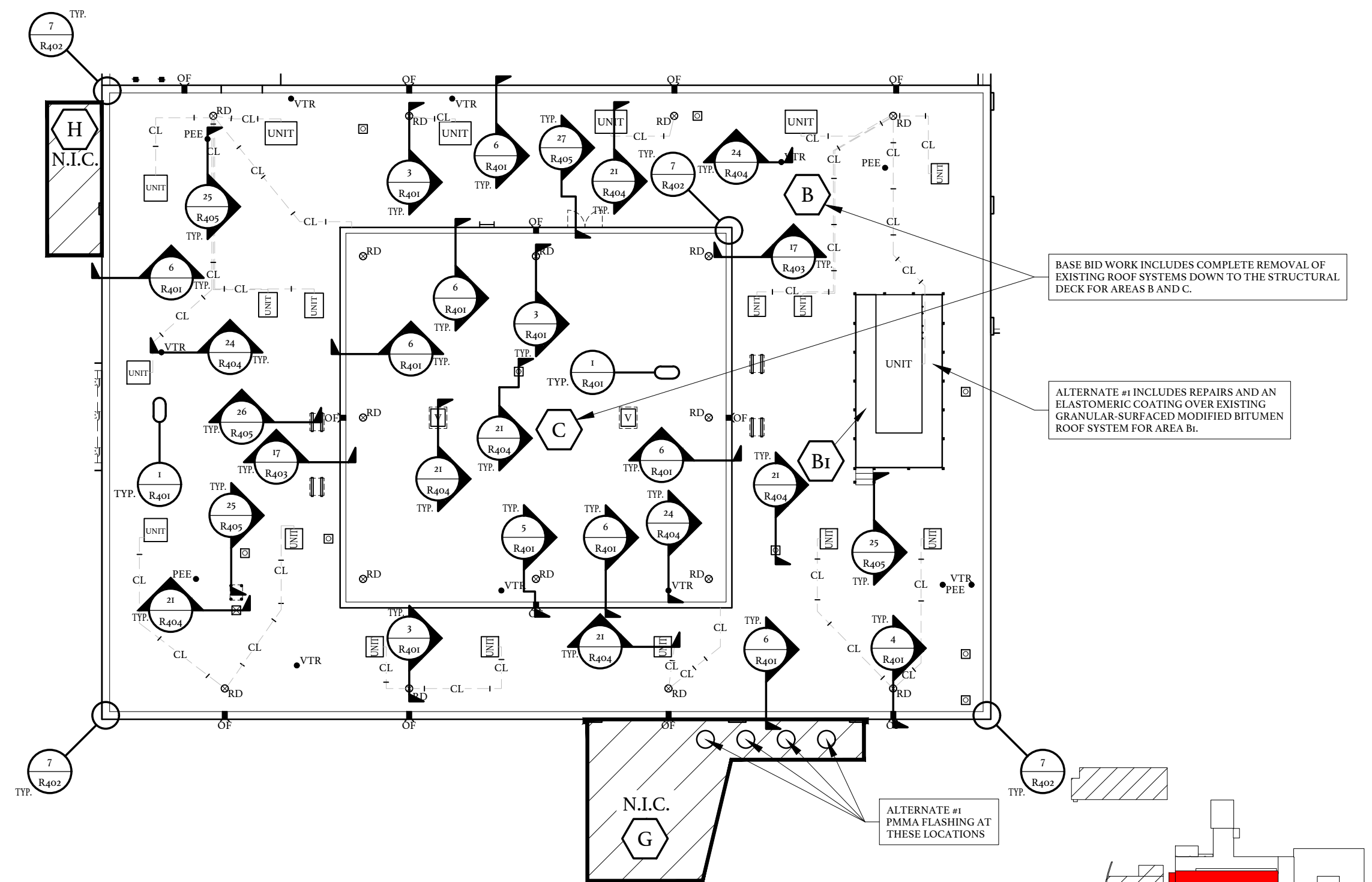
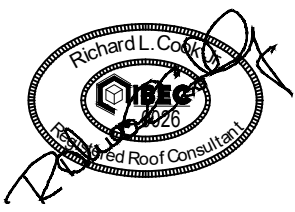


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**  
**BUILDING 1000**  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**ROOF AREAS**  
**D, D1, & D2**  
**PHOTOGRAPHS**  
**BUILDING 1000**

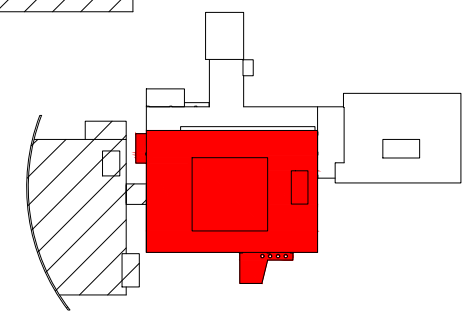
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS B AND C.

ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREA Bi.

ALTERNATE #1  
PMMA FLASHING AT THESE LOCATIONS



KEY PLAN



GRAPHIC SCALE

NEW ROOF PLAN  
AREAS B, Bi, & C  
BUILDING 1000



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING**  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000

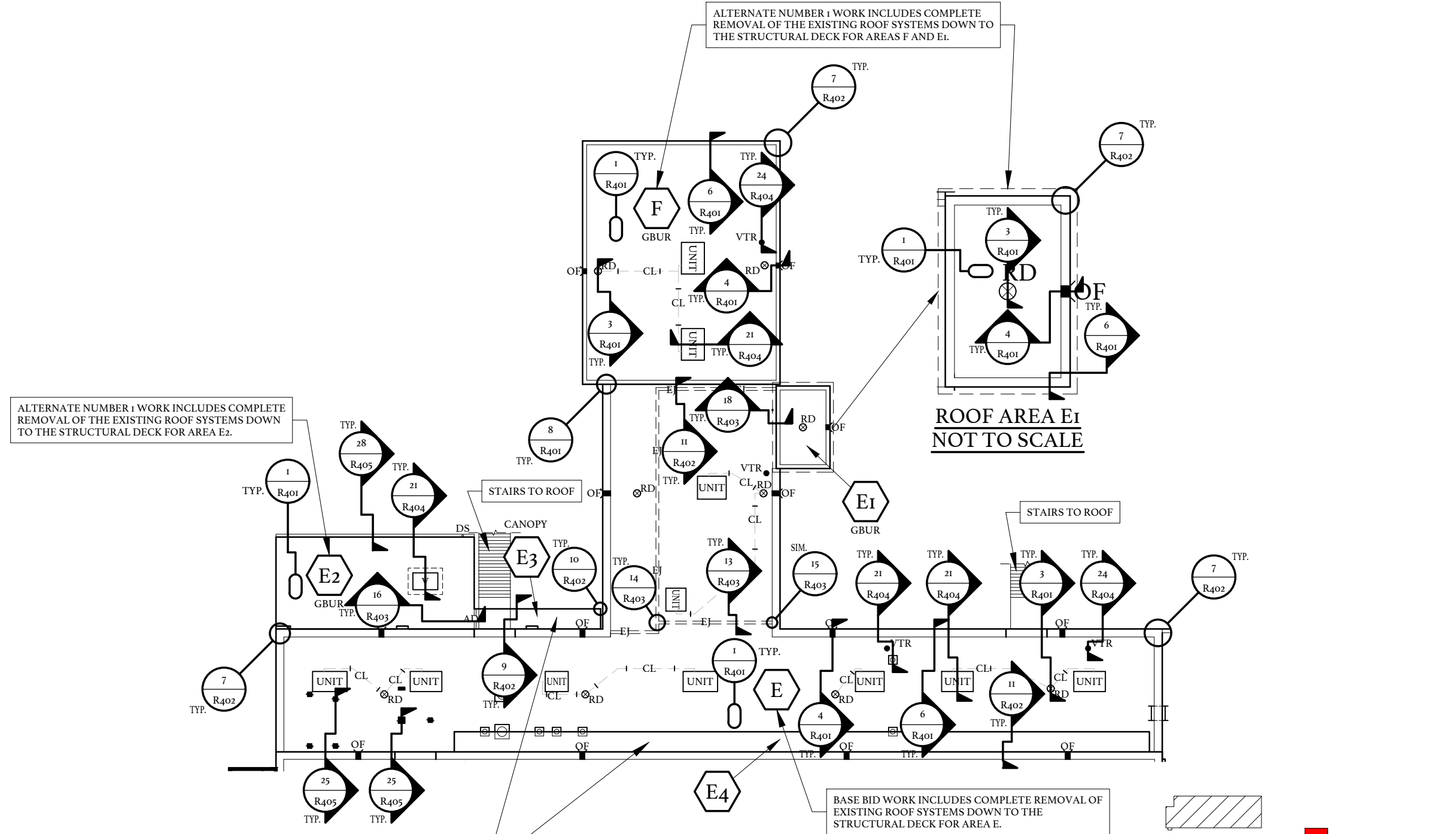
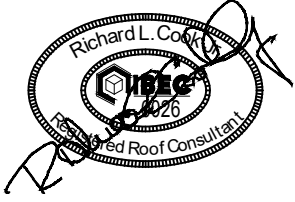
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

NEW ROOF  
PLAN AREAS  
B, Bi, & C  
BUILDING 1000

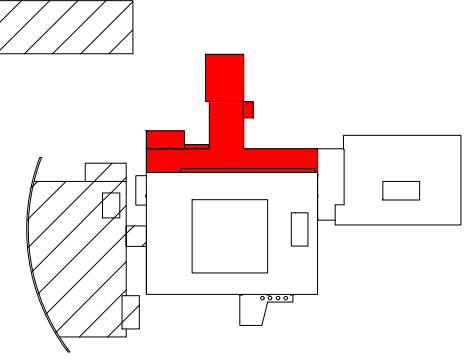
R311

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

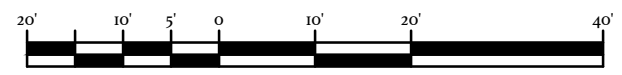


- NOTES:**
1. COMPLETELY REMOVE EXISTING PAVER SYSTEM WITH FABRIC.
  2. PROVIDE WALK PADS/WALKWAYS AT TOP AND BOTTOM OF ALL STAIRS AND LADDERS, AS WELL AS AT DOOR THRESHOLDS.
  3. RAISE EXISTING PENETRATIONS AND TERMINATIONS SUCH AS THE EXPANSION JOINTS TO ACCOMMODATE NEW ROOF HEIGHT ON AREA E.
  4. ALL PERIMETER/RAIL CONDITIONS SHALL BE 42" ABOVE TOP OF ROOF.
  5. MAINTENANCE, REPAIRS AND ELASTOMERIC COATING FOR AREAS E3 & E4.

**NEW ROOF PLAN  
AREAS E, E1, E2, E3, E4, & F  
BUILDING 1000**



**KEY PLAN**



**GRAPHIC SCALE**



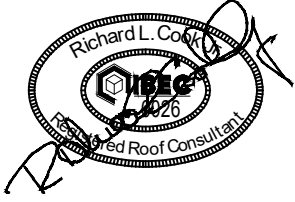
**PLAN NORTH**

HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000**  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**NEW ROOF  
PLAN AREAS  
E, E1, E2, E3, E4, & F  
BUILDING 1000**

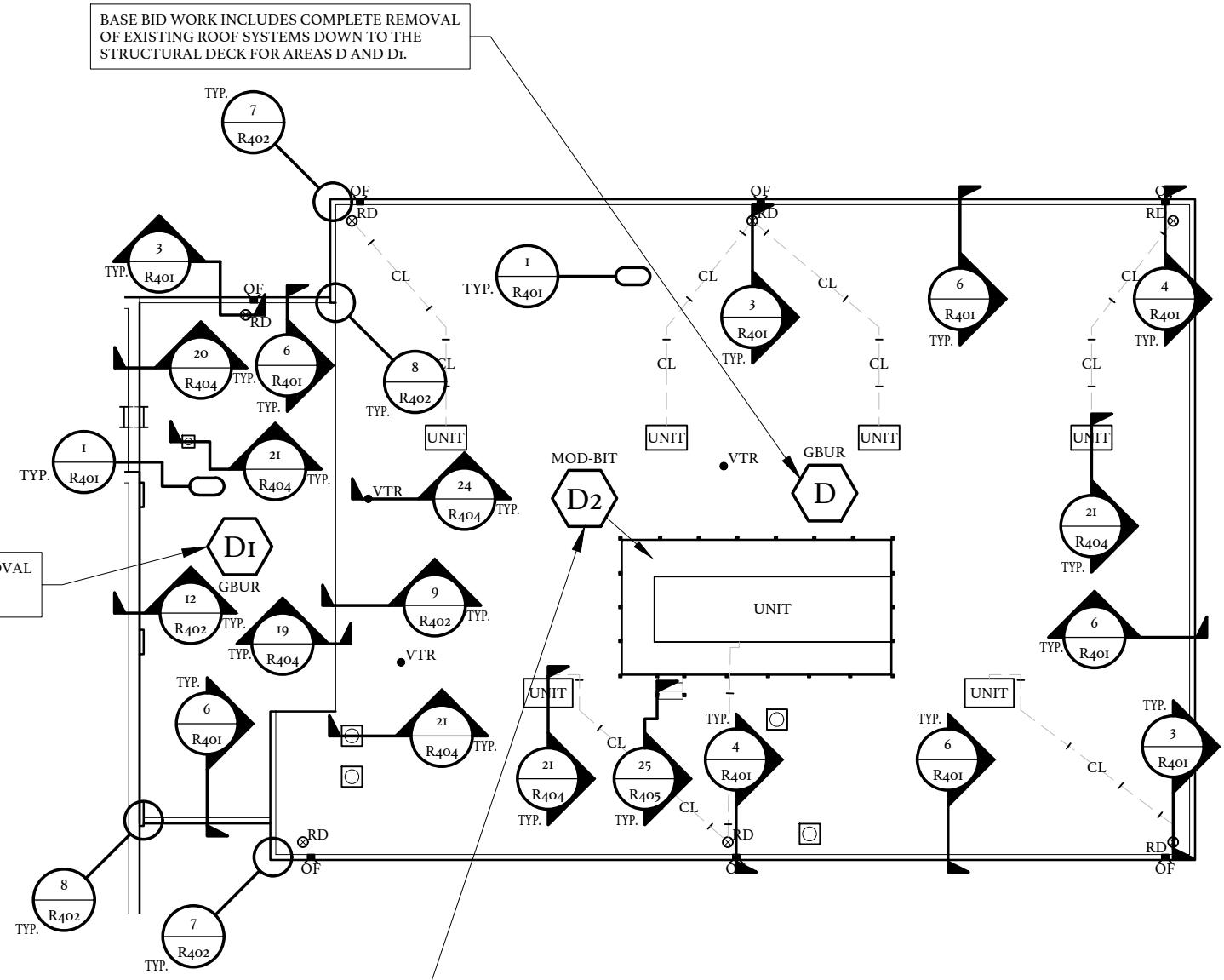
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



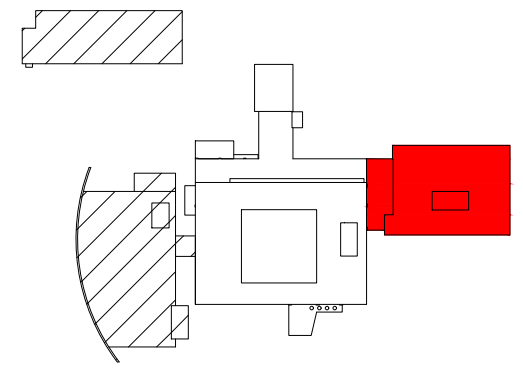
HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS BUILDING 1000**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

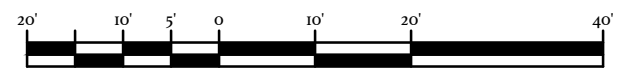
**NEW ROOF PLAN AREAS D, D<sub>I</sub>, & D<sub>2</sub> BUILDING 1000**



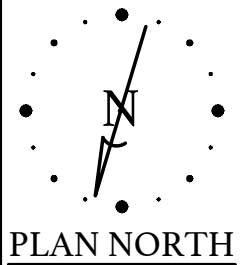
**NEW ROOF PLAN AREAS D, D<sub>I</sub>, & D<sub>2</sub> BUILDING 1000**



**KEY PLAN**

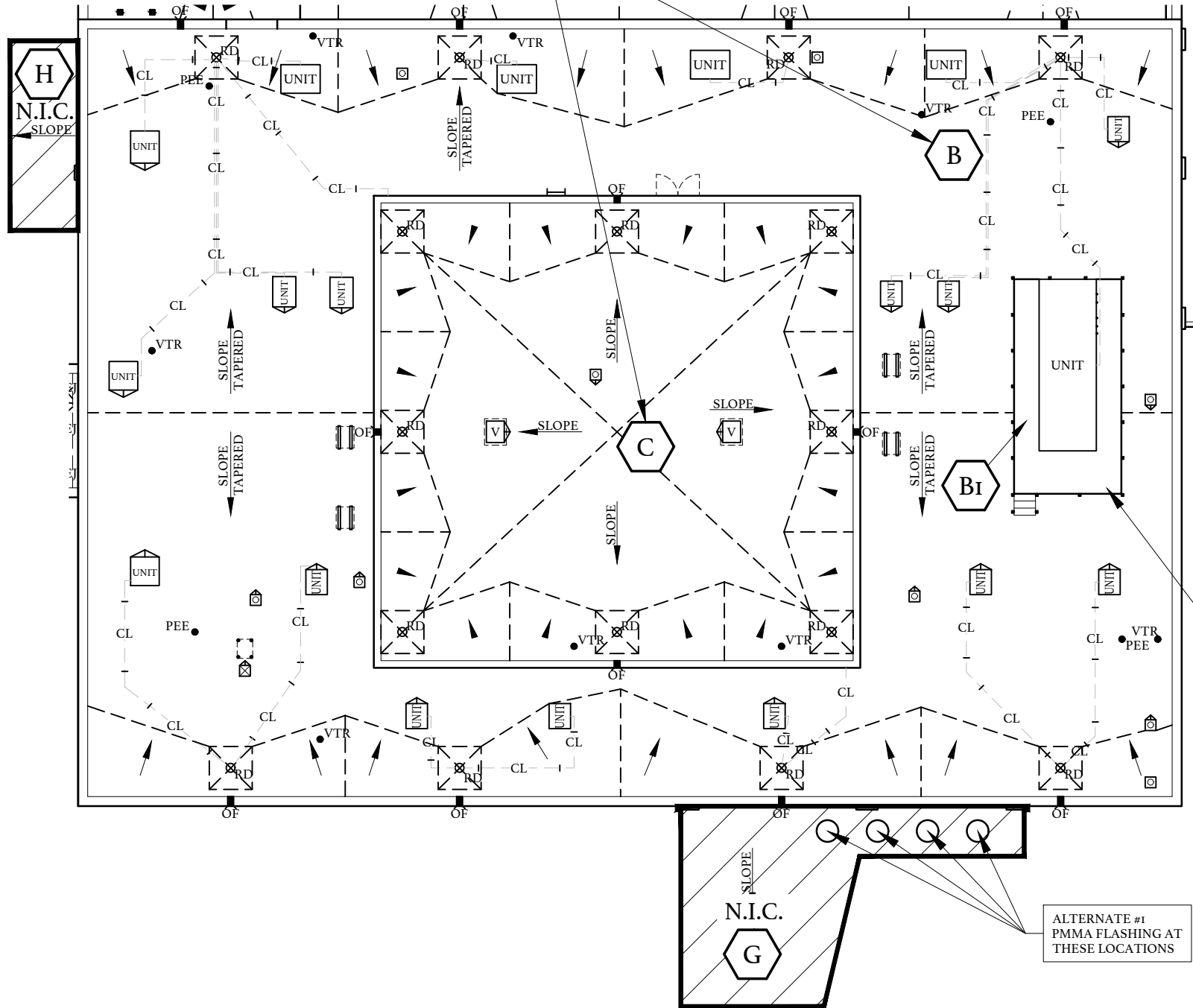


**GRAPHIC SCALE**



\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS B AND C.

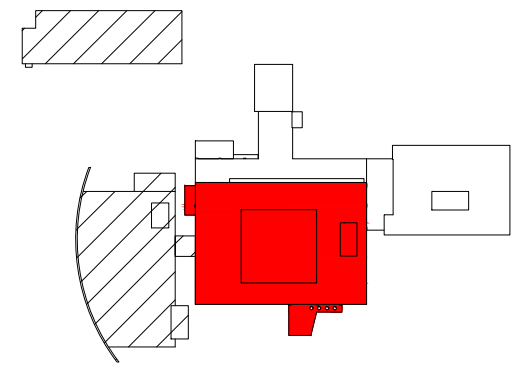


**TAPERED INSULATION NOTES**

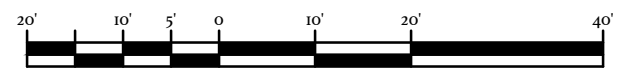
1. AS NOTED IN SPECIFICATIONS, THE PRIMARY SLOPE FOR INDICATED ROOF AREAS SHALL BE PROVIDED WITH TAPERED INSULATION.
  - A. TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4" : 12" INCH PER FOOT.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
  - A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
  - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
  - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
  - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
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.
  - A. TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
  - B. DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.

ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREA Bi.

ALTERNATE #1 PMMA FLASHING AT THESE LOCATIONS

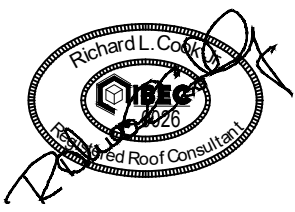
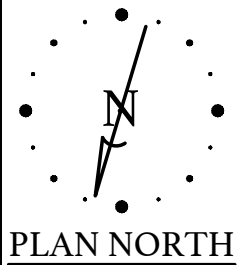


**KEY PLAN**



**GRAPHIC SCALE**

**TAPER ROOF PLAN  
AREAS B, Bi, & C  
BUILDING 1000**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000**

OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

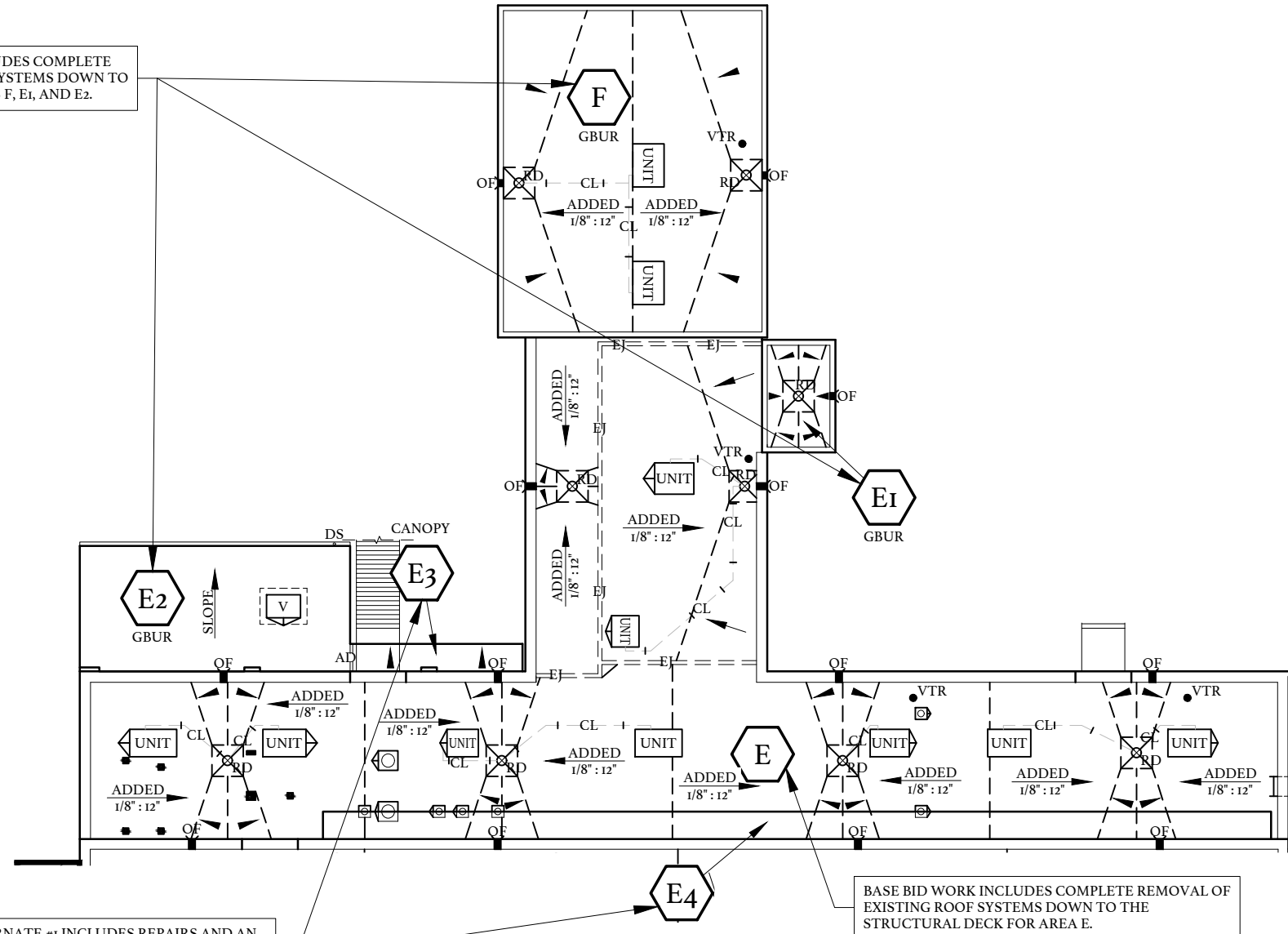
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**TAPER ROOF  
PLAN AREAS  
B, Bi, & C  
BUILDING 1000**

R314

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

ALTERNATE NUMBER 1 WORK INCLUDES COMPLETE REMOVAL OF THE EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS F, E1, AND E2.



ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREAS E3 AND E4.

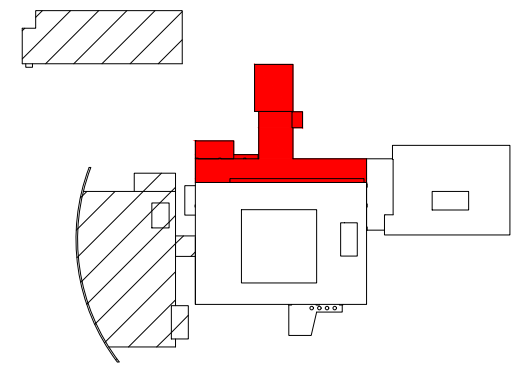
BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREA E.

**NOTES:**  
 1. ENSURE EXPANSION JOINTS ARE RAISED TO ACCOMMODATE NEW ROOF THICKNESS.

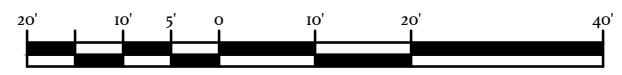
**TAPER ROOF PLAN  
 AREAS E, E1, E2, E3, E4, & F  
 BUILDING 1000**

**TAPERED INSULATION NOTES**

1. THE PRIMARY SLOPE IS IN THE EXISTING DECK.
  - A. ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/8 INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
  - A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
  - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
  - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
  - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
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.
  - A. TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
  - B. DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.



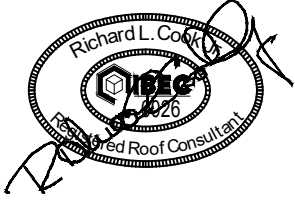
**KEY PLAN**



**GRAPHIC SCALE**



1226 YEAMANS HALL ROAD, STE C  
 HANAHAN, SC 29410

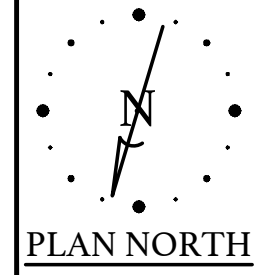


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
 SYSTEMS GRAND STRAND CAMPUS  
 BUILDING 1000**  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 3501 PAMPAS DRIVE  
 MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**TAPER ROOF  
 PLAN AREAS  
 E, E1, E2, E3, E4, & F  
 BUILDING 1000**

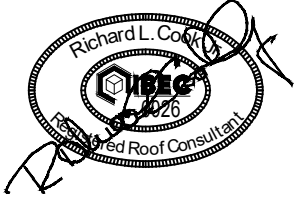
R315



**PLAN NORTH**



\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

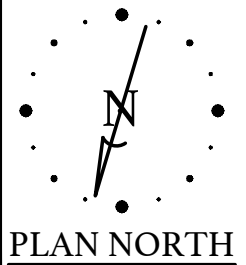
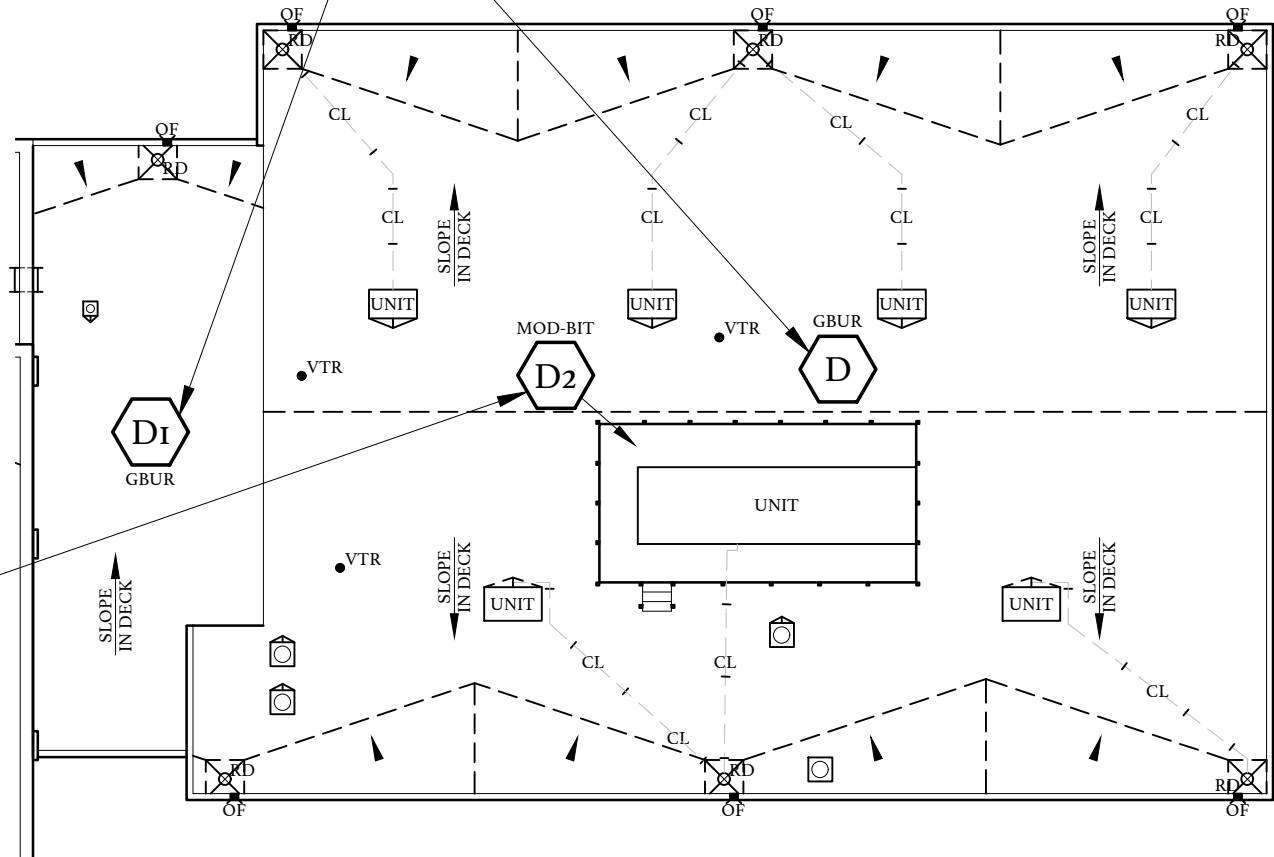


**TAPERED INSULATION NOTES**

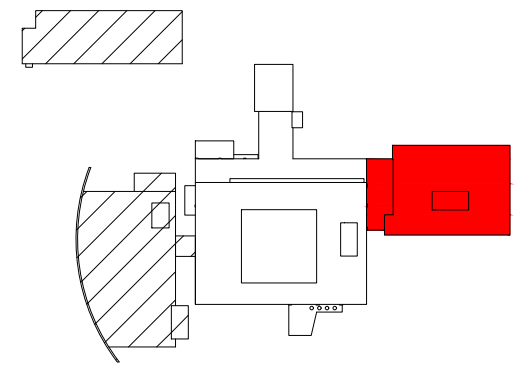
1. THE PRIMARY SLOPE IS IN THE EXISTING DECK.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
  - A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
4. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
5. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
  - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
  - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
  - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
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.
  - A. TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
  - B. DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.

BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR AREAS D AND D1.

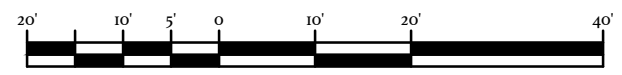
ALTERNATE #1 INCLUDES REPAIRS AND AN ELASTOMERIC COATING OVER EXISTING GRANULAR-SURFACED MODIFIED BITUMEN ROOF SYSTEM FOR AREA D2.



**TAPER ROOF PLAN  
AREAS D, D1, & D2  
BUILDING 1000**



**KEY PLAN**



**GRAPHIC SCALE**

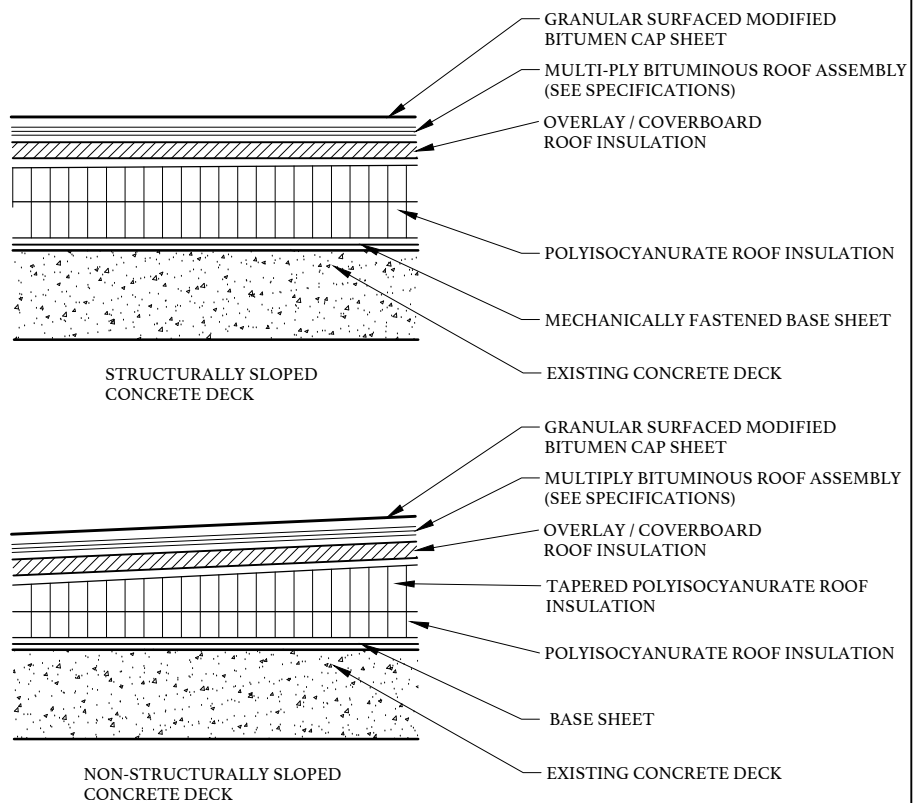
HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS  
BUILDING 1000**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
3501 PAMPAS DRIVE  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**TAPER ROOF  
PLAN AREAS  
D, D1, & D2  
BUILDING 1000**

R316

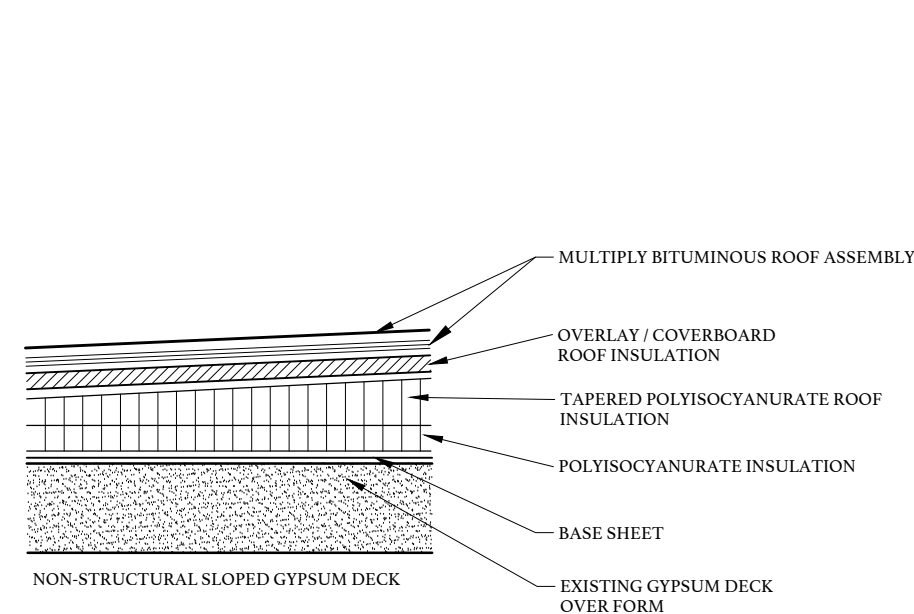
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



**NOTES:**

- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM

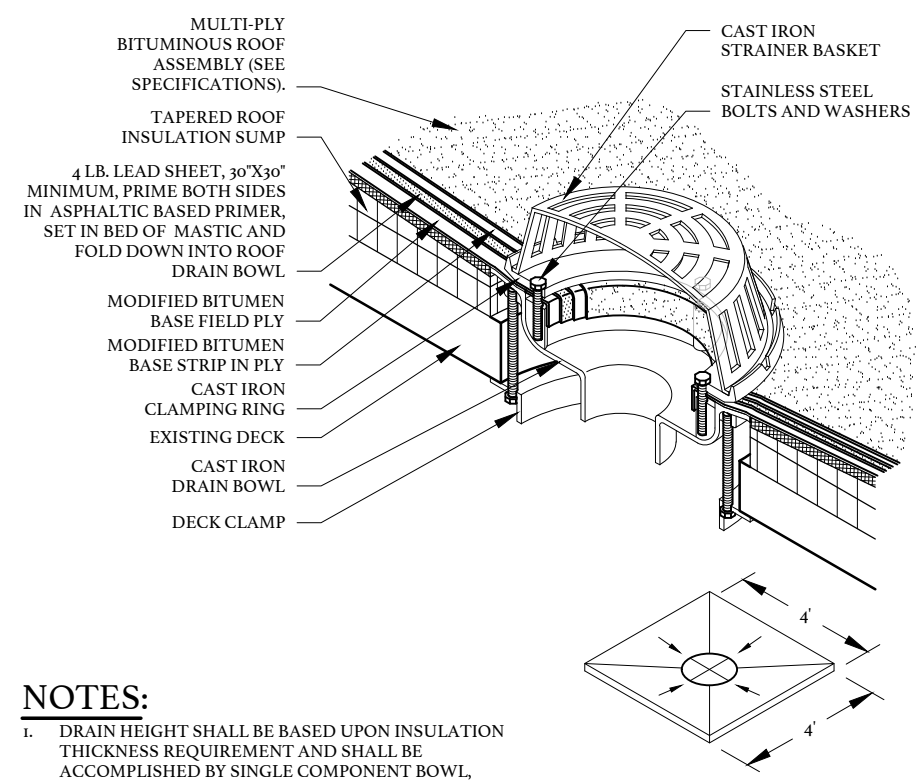
**1 MODIFIED BITUMEN ROOF ASSEMBLY**  
 R401 NOT TO SCALE (TYPICAL)



**NOTES:**

- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM.
- SEE UNIT PRICE REQUIREMENTS AND ALTERNATE #1.

**2 MODIFIED BITUMEN ROOF ASSEMBLY**  
 R401 NOT TO SCALE (TYPICAL)

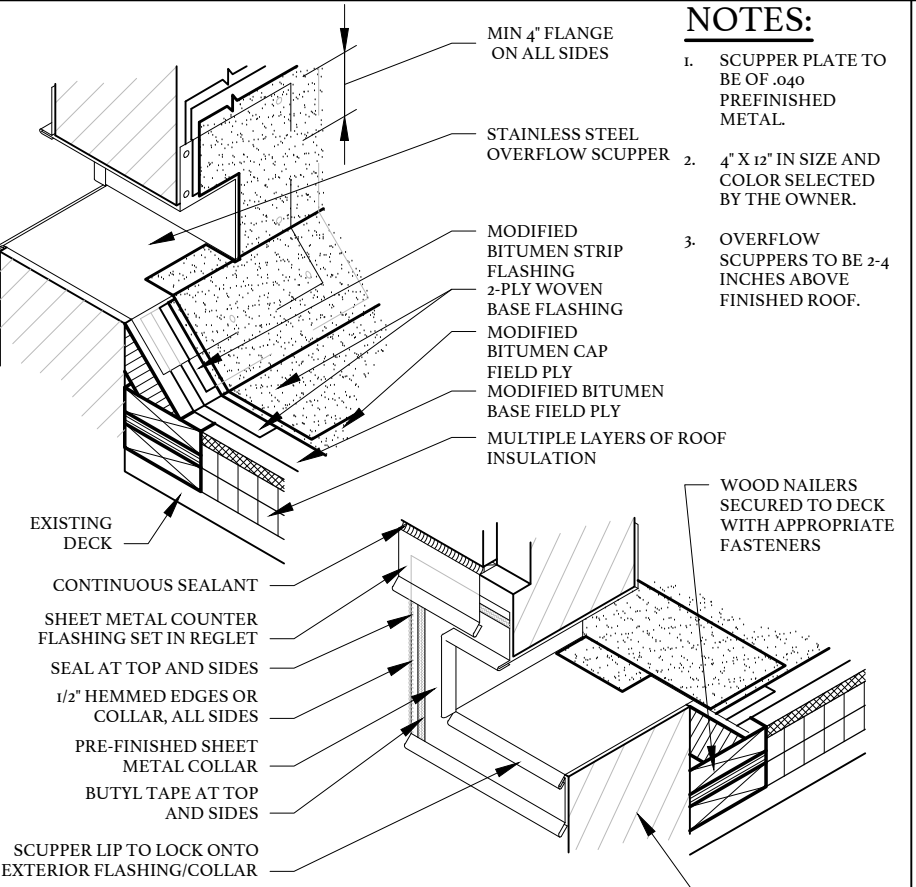


**NOTES:**

- DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENT AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.
- SELECT LOCATIONS MAY REQUIRE ENLARGED SUMP. SEE TAPER PLANS.

**TAPERED SUMP**

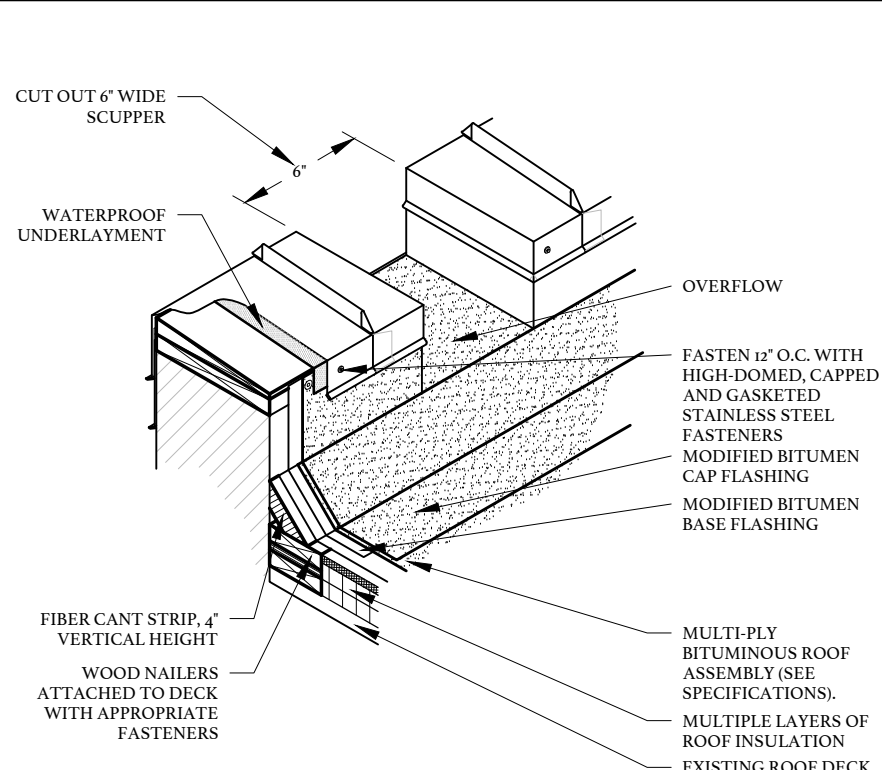
**3 ROOF DRAIN**  
 R401 NOT TO SCALE (TYPICAL)



**NOTES:**

- SCUPPER PLATE TO BE OF .040 PREFINISHED METAL.
- 4" X 12" IN SIZE AND COLOR SELECTED BY THE OWNER.
- OVERFLOW SCUPPERS TO BE 2-4 INCHES ABOVE FINISHED ROOF.

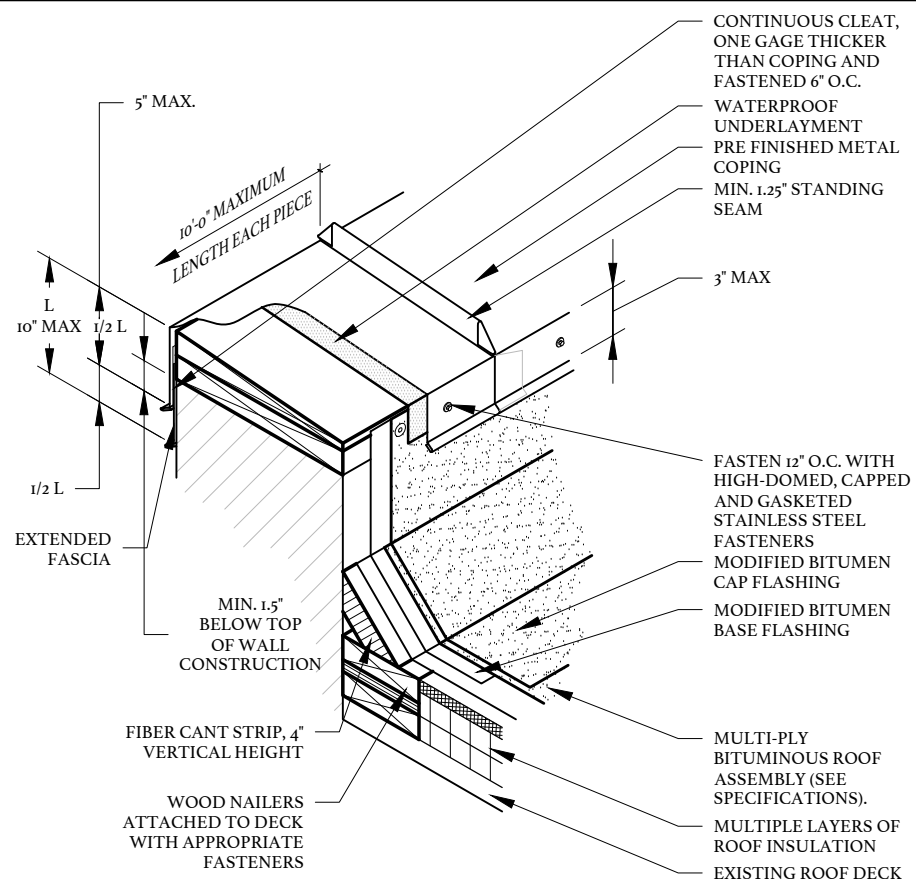
**4 OVERFLOW SCUPPER**  
 R401 NOT TO SCALE (TYPICAL)



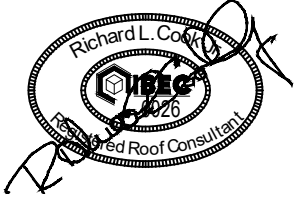
**NOTES:**

- SEE BASE FLASHING AT PARAPET FOR COPING REQUIREMENTS.

**5 METAL COPING OVERFLOW CONDITION**  
 R401 NOT TO SCALE (TYPICAL)



**6 BASE FLASHING AT PARAPET**  
 R401 NOT TO SCALE (TYPICAL)



Horry-Georgetown Technical College  
**REBID REPAIR/REPLACE ROOFING**  
**SYSTEMS GRAND STRAND CAMPUS**

OWNER PROJECT NUMBER: H59-0229-PD  
 BEE PROJECT NUMBER: 23010C  
 BEE PROJECT NUMBER: 23010C

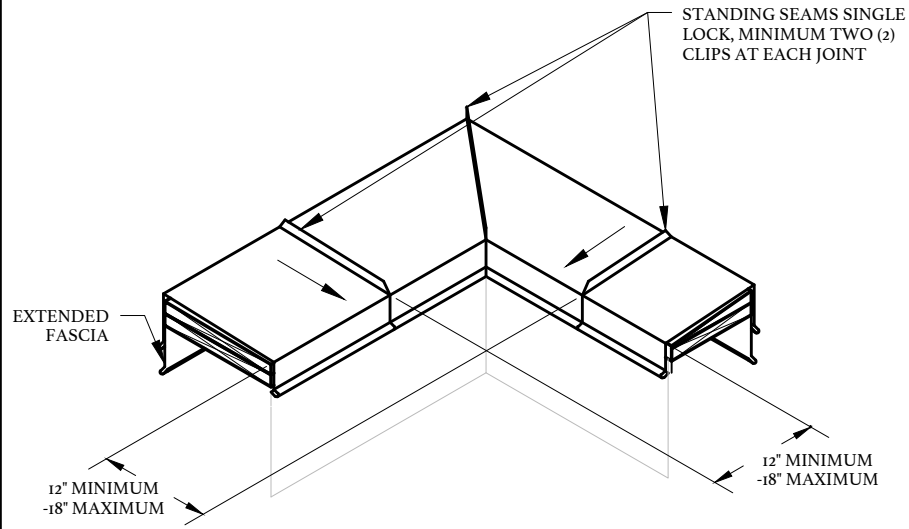
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**DETAILS / SECTIONS**

R401

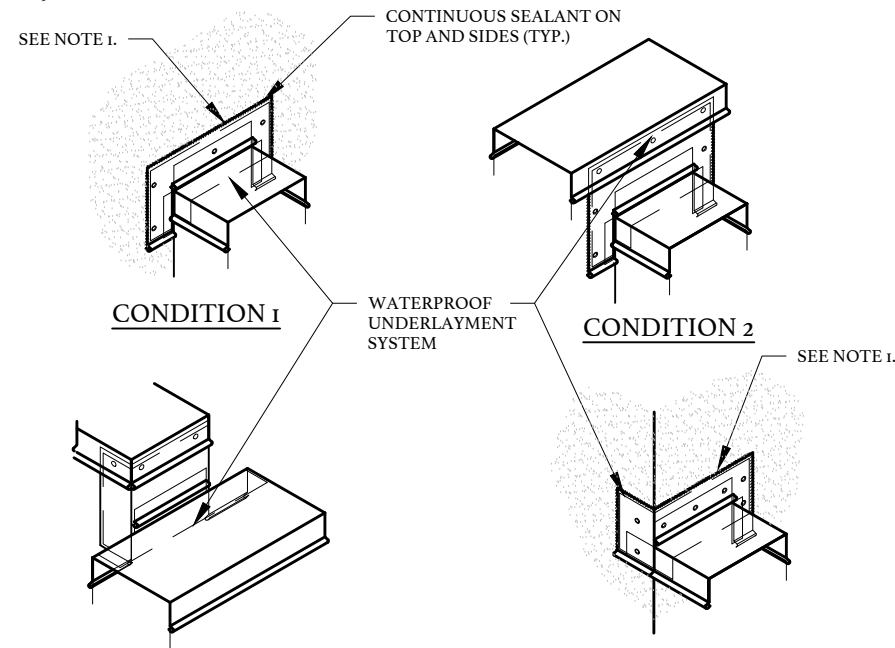
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



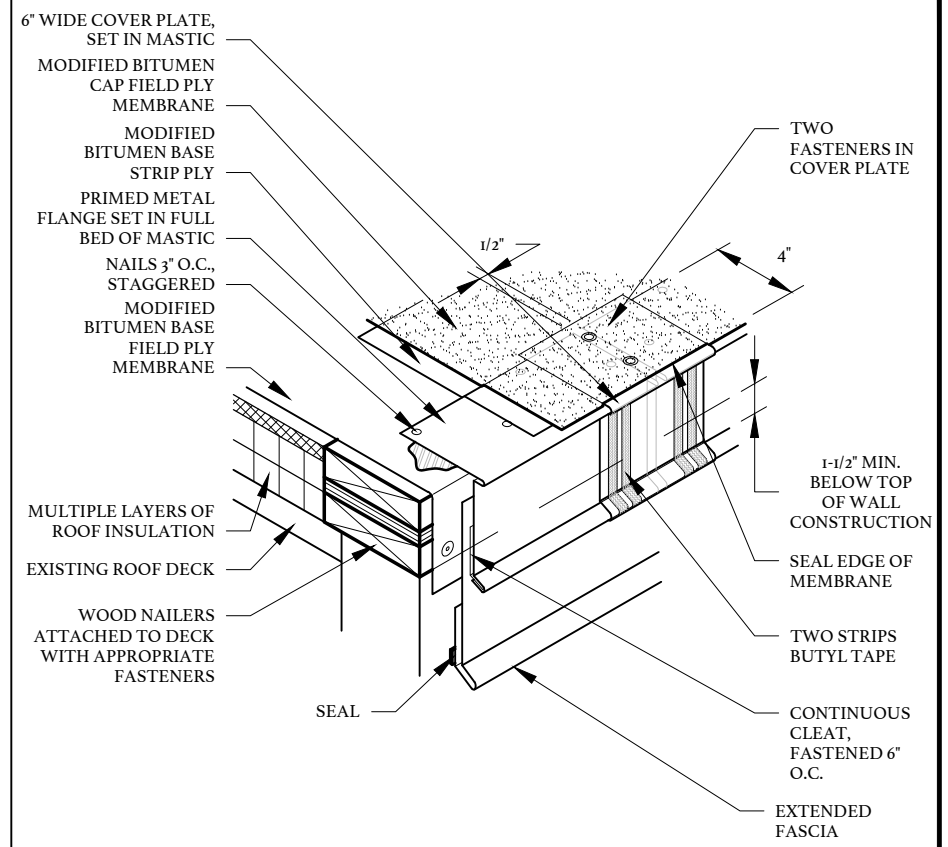
**7**  
COPING  
PREFABRICATED CORNER  
NOT TO SCALE (TYPICAL)

**NOTES:**

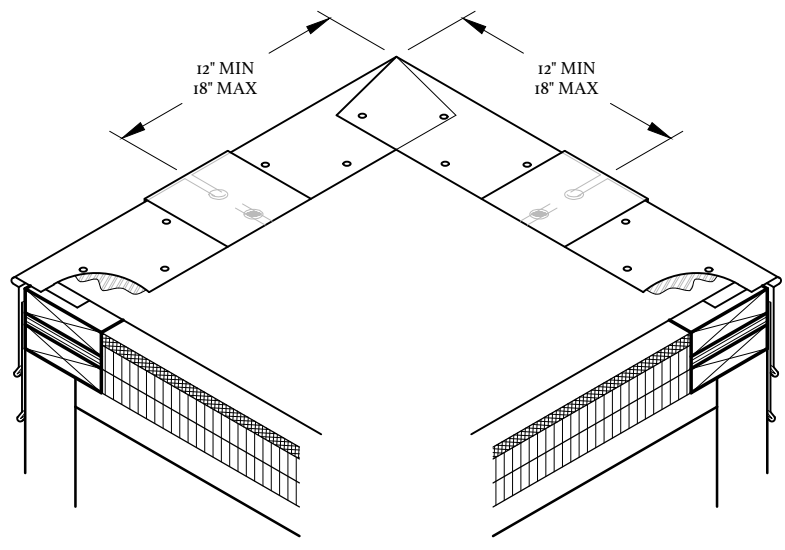
- CUT REGLET / RAGGLE TO DEPTH OF 1 1/4", INSERT LEAD WEDGES 12" O.C. AND PROVIDE BACKER ROD AND SEALANT.
- WATERPROOF UNDERLAYMENT UNDER ALL SHEET METAL TRANSITION UP VERTICAL SURFACES, AROUND CORNERS AND ONTO HORIZONTAL SURFACES (MINIMUM FOUR INCHES).
- SEE DETAILS FOR ADDED/EXTENDED COUNTERFLASHING ON OUTER EDGE.



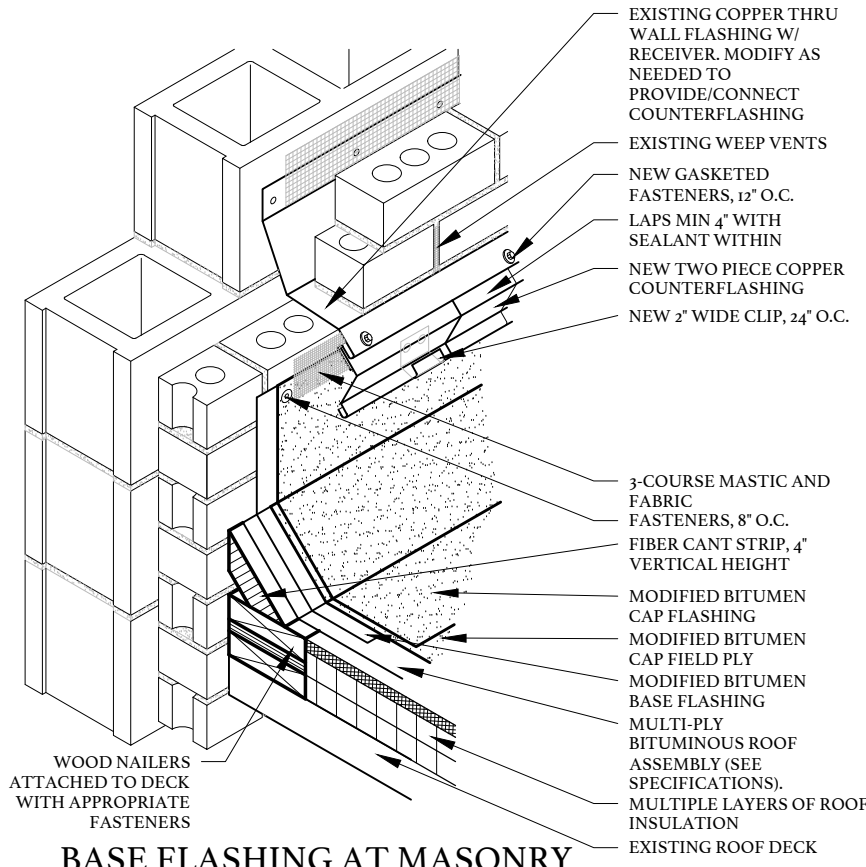
**8**  
COPING AND AREA  
DIVIDER TERMINATIONS  
NOT TO SCALE (TYPICAL)



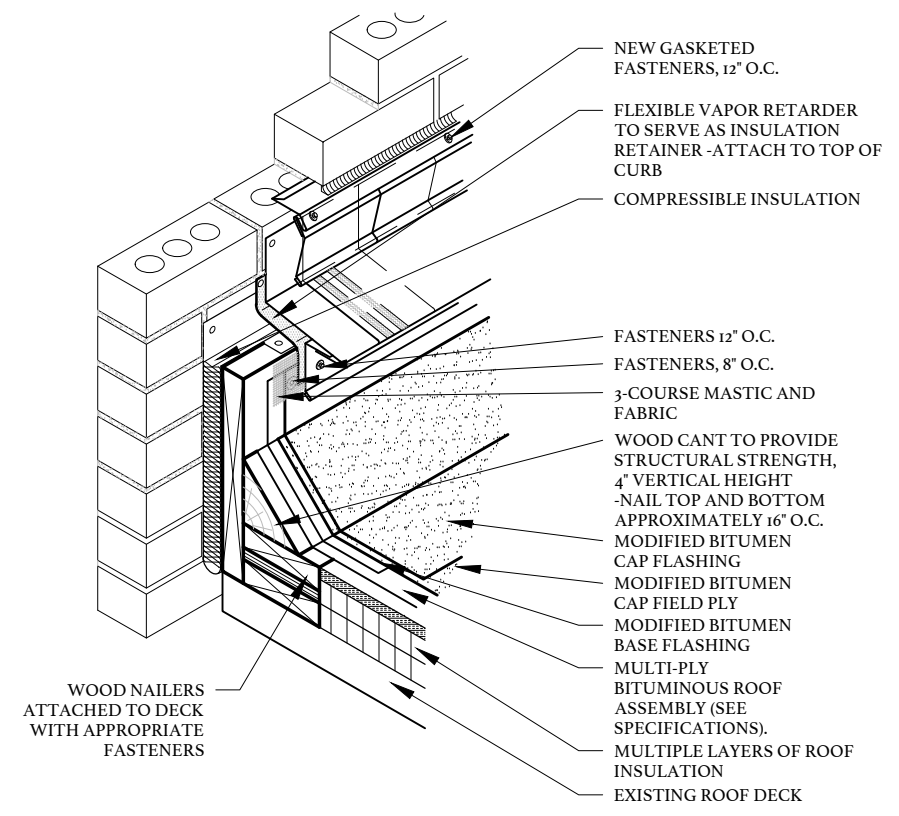
**9**  
METAL ROOF EDGE  
NOT TO SCALE (TYPICAL)



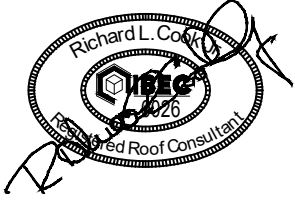
**10**  
PREFABRICATED METAL  
ROOF EDGE CORNER  
NOT TO SCALE (TYPICAL)



**11**  
BASE FLASHING AT MASONRY  
WITH EXISTING THRU WALL  
NOT TO SCALE (TYPICAL)



**12**  
EXPANSION JOINT AT A WALL  
NOT TO SCALE (TYPICAL)



HORRY-GEORGETOWN TECHNICAL COLLEGE  
REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS

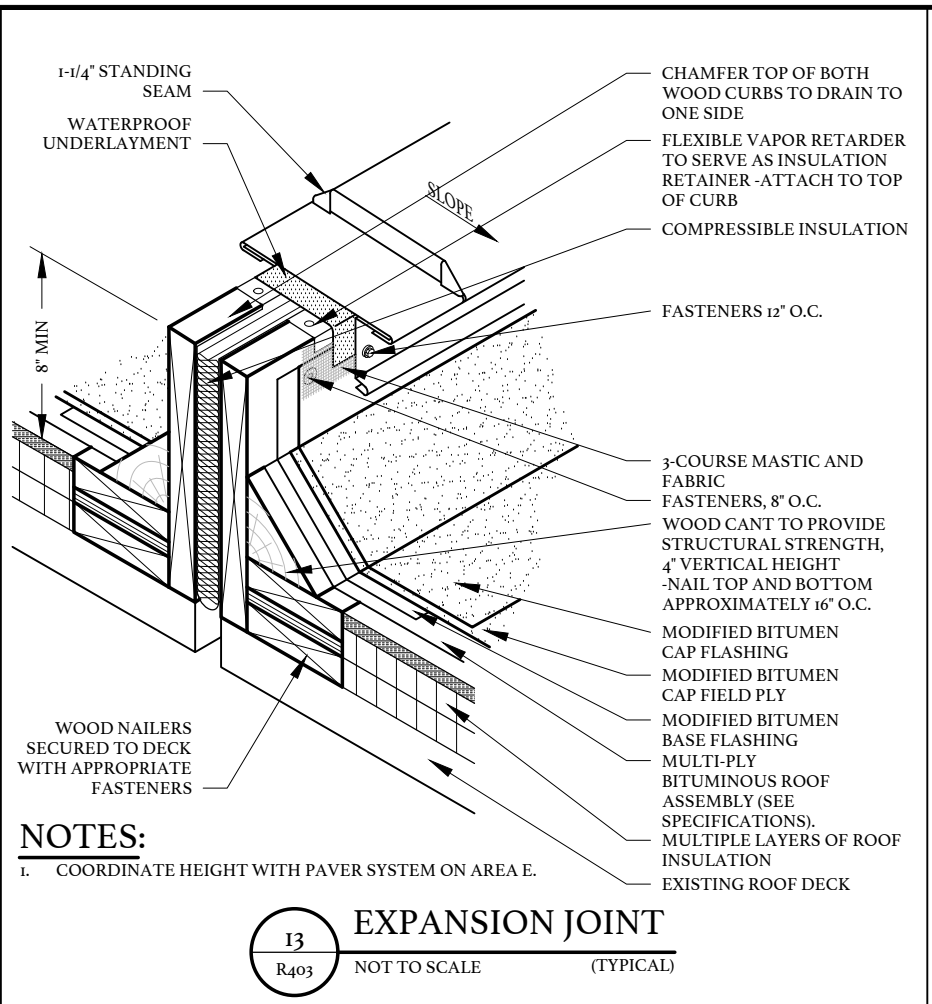
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

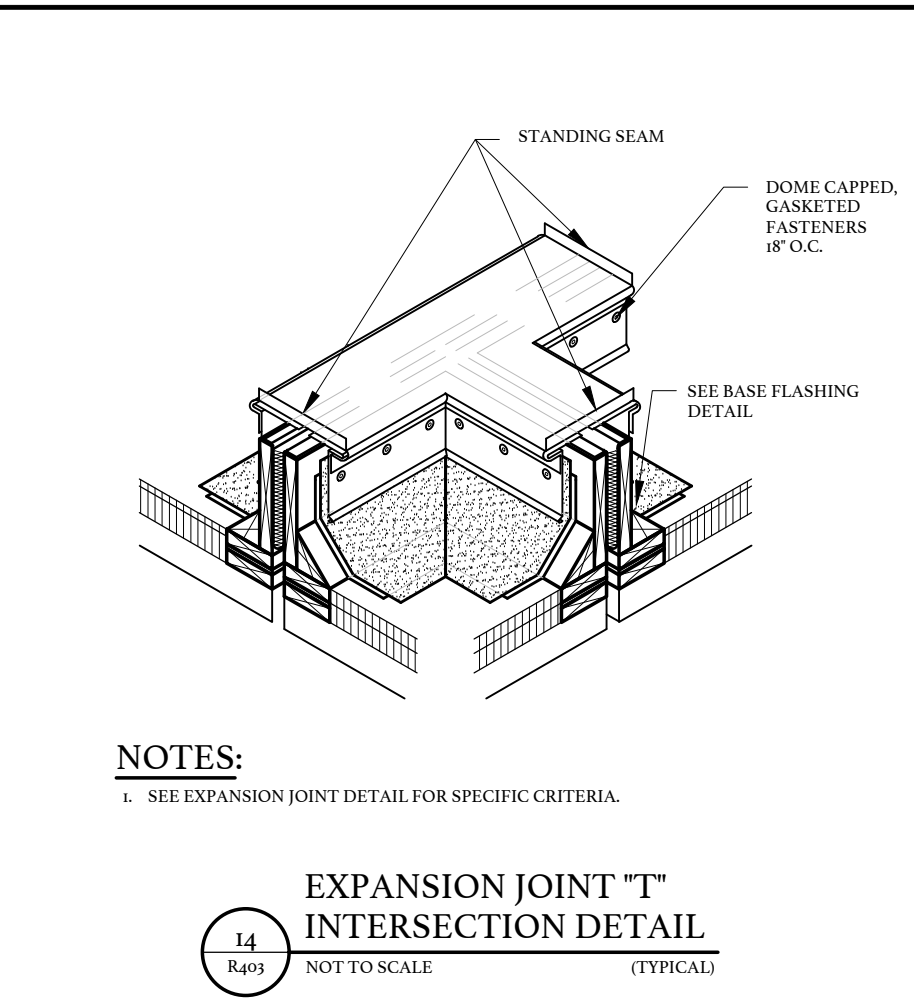
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**DETAILS / SECTIONS**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

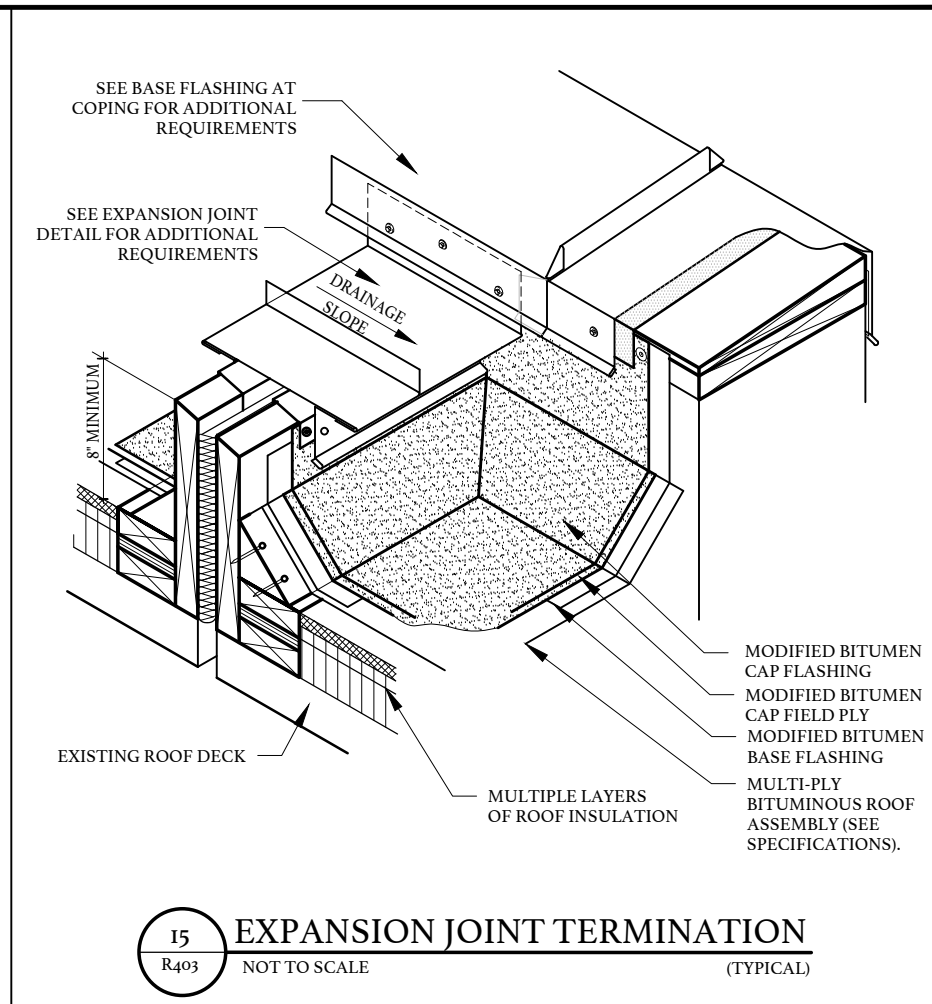


**13**  
R403 NOT TO SCALE (TYPICAL)  
**EXPANSION JOINT**

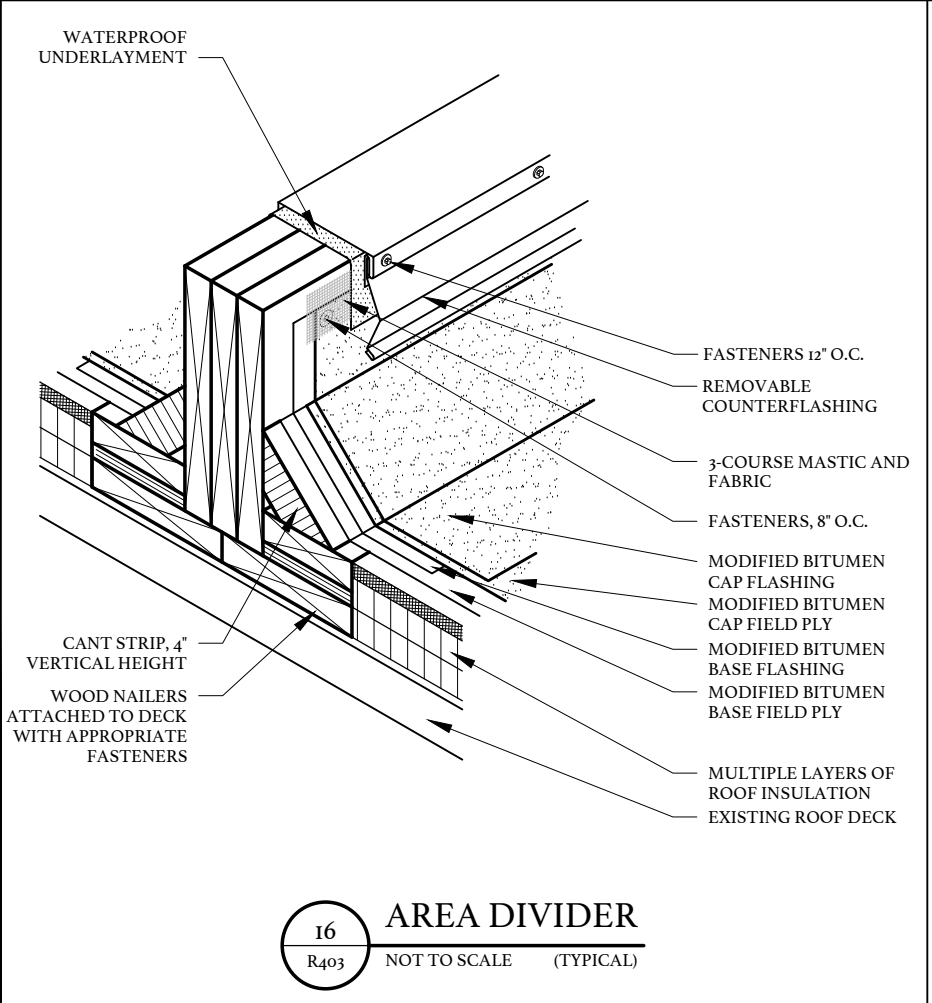


**NOTES:**  
1. SEE EXPANSION JOINT DETAIL FOR SPECIFIC CRITERIA.

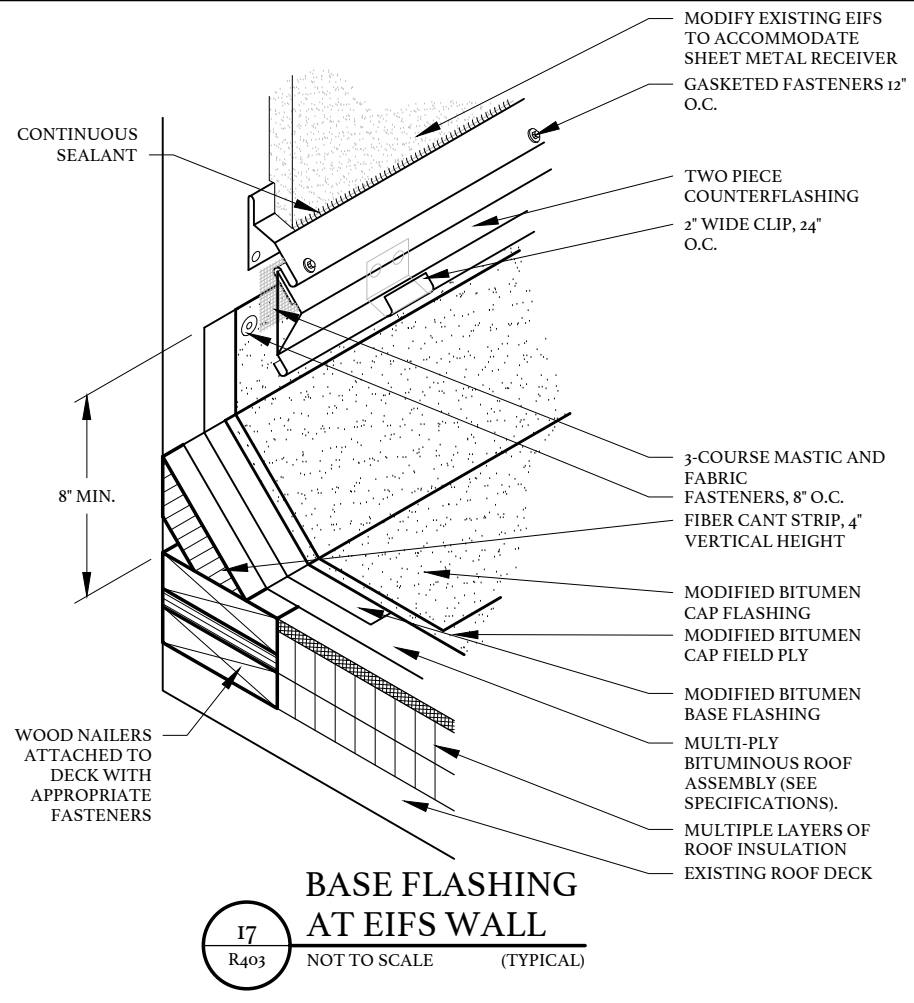
**14**  
R403 NOT TO SCALE (TYPICAL)  
**EXPANSION JOINT "T" INTERSECTION DETAIL**



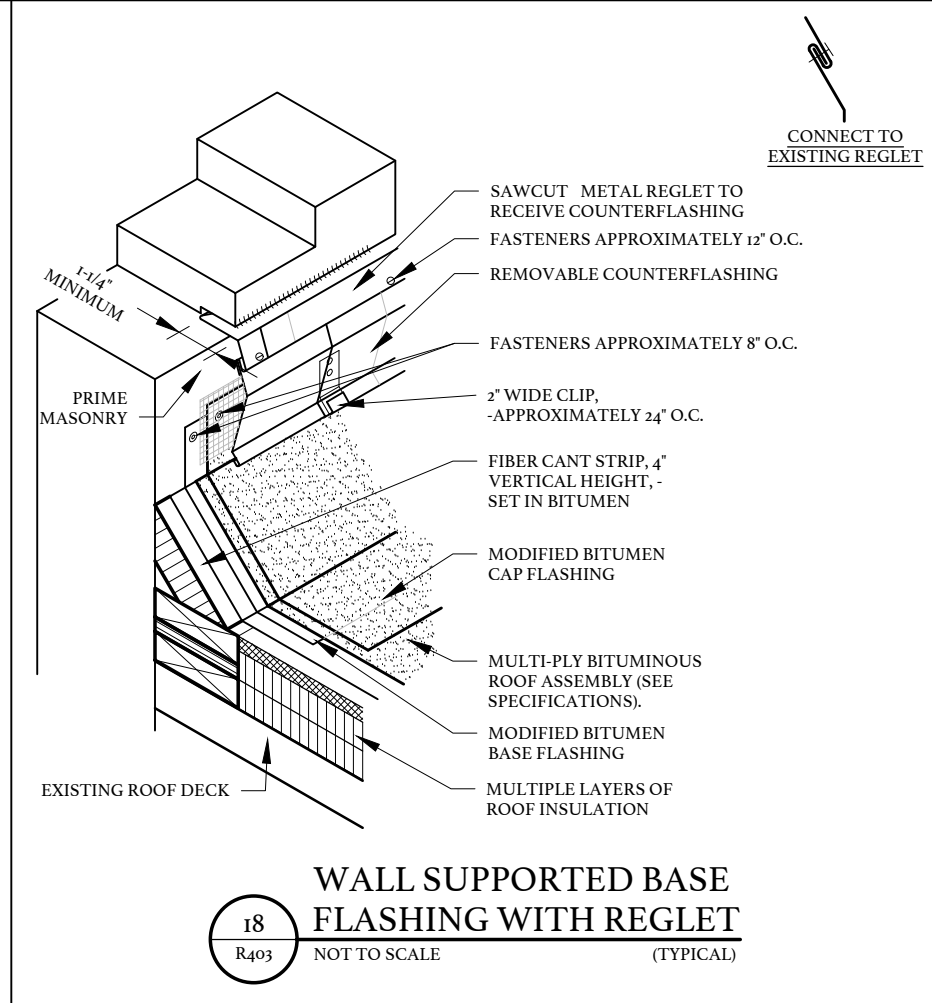
**15**  
R403 NOT TO SCALE (TYPICAL)  
**EXPANSION JOINT TERMINATION**



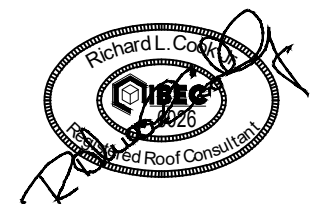
**16**  
R403 NOT TO SCALE (TYPICAL)  
**AREA DIVIDER**



**17**  
R403 NOT TO SCALE (TYPICAL)  
**BASE FLASHING AT EIFS WALL**



**18**  
R403 NOT TO SCALE (TYPICAL)  
**WALL SUPPORTED BASE FLASHING WITH REGLET**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS

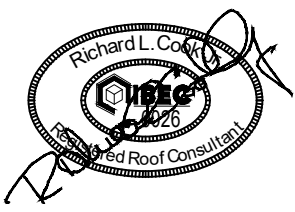
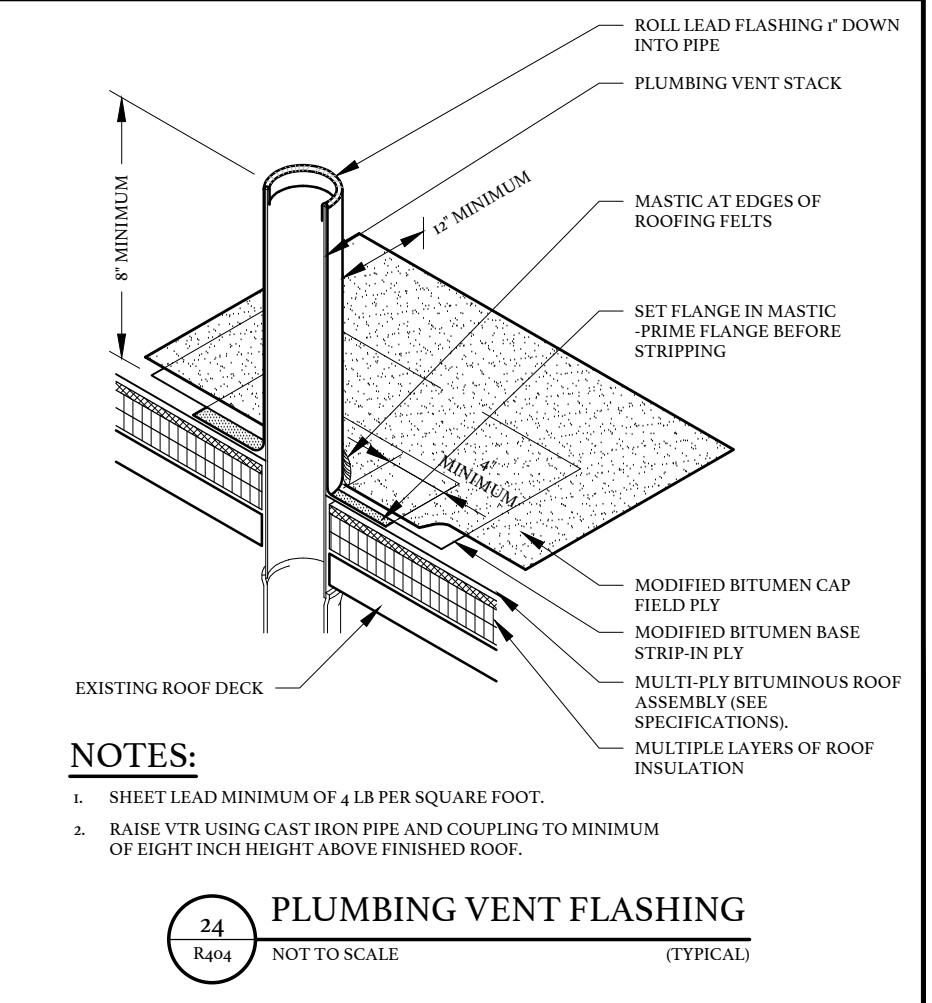
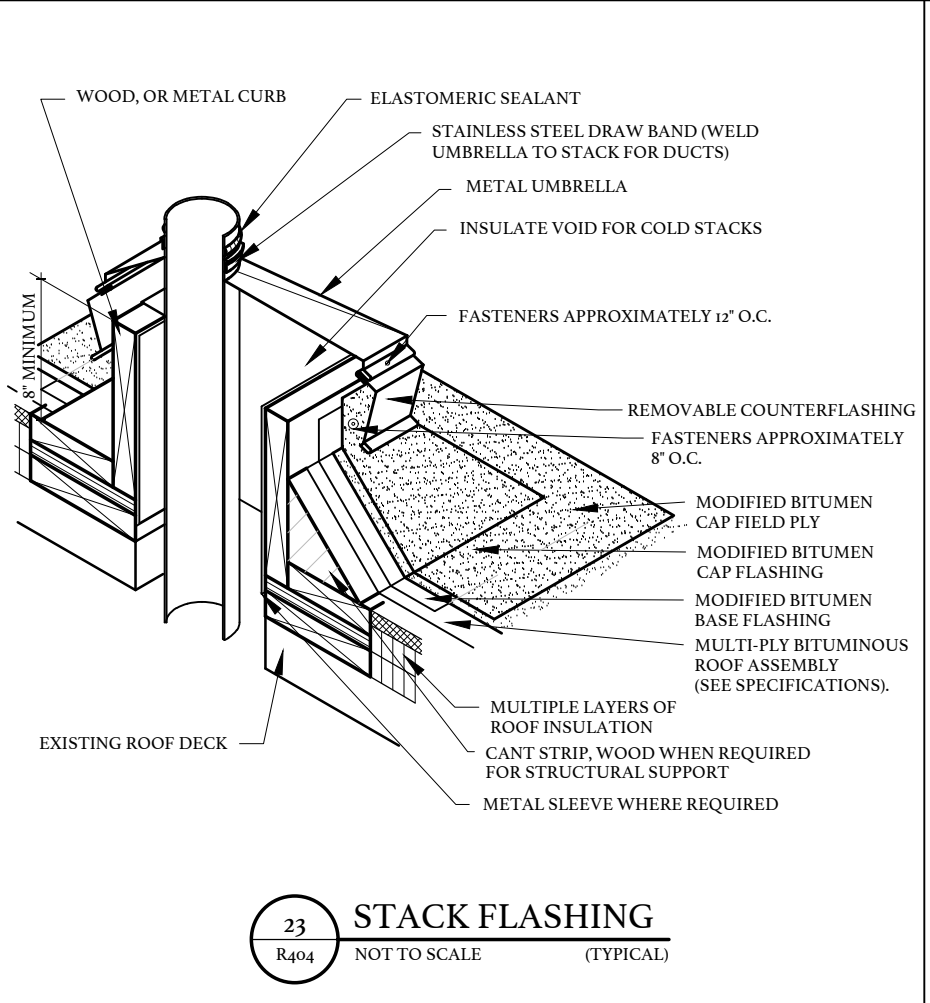
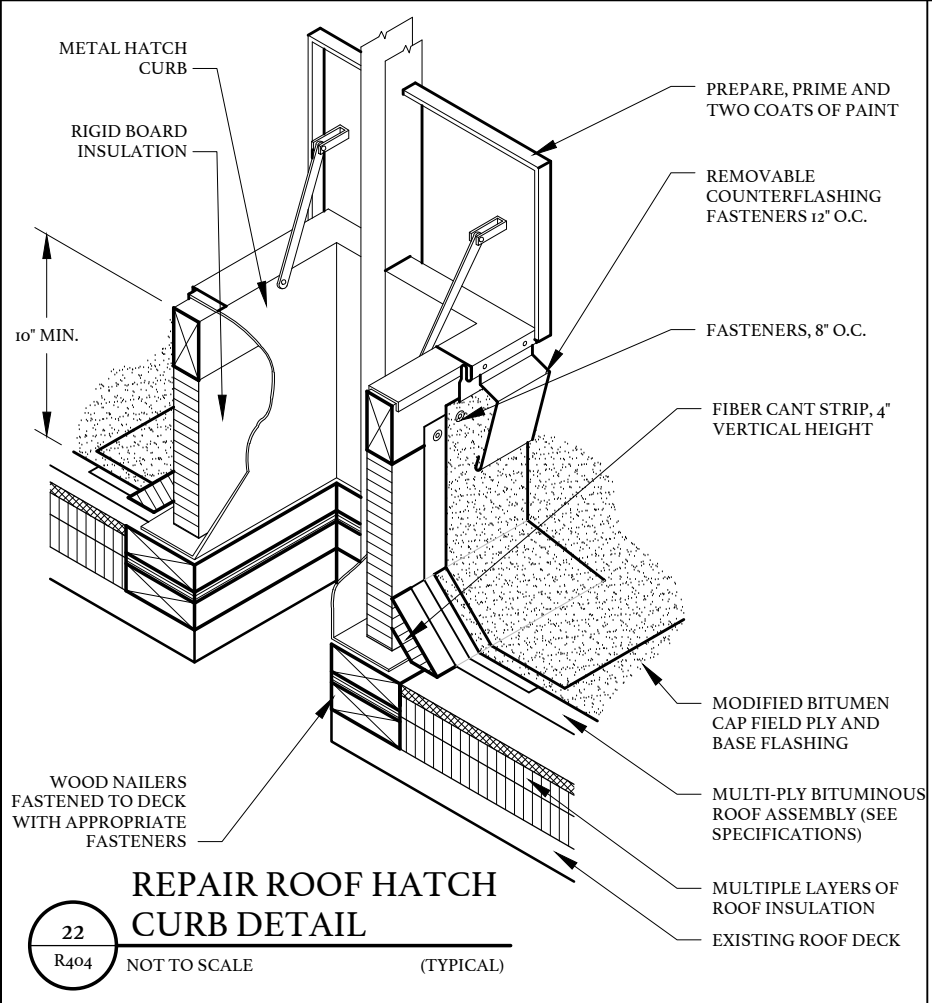
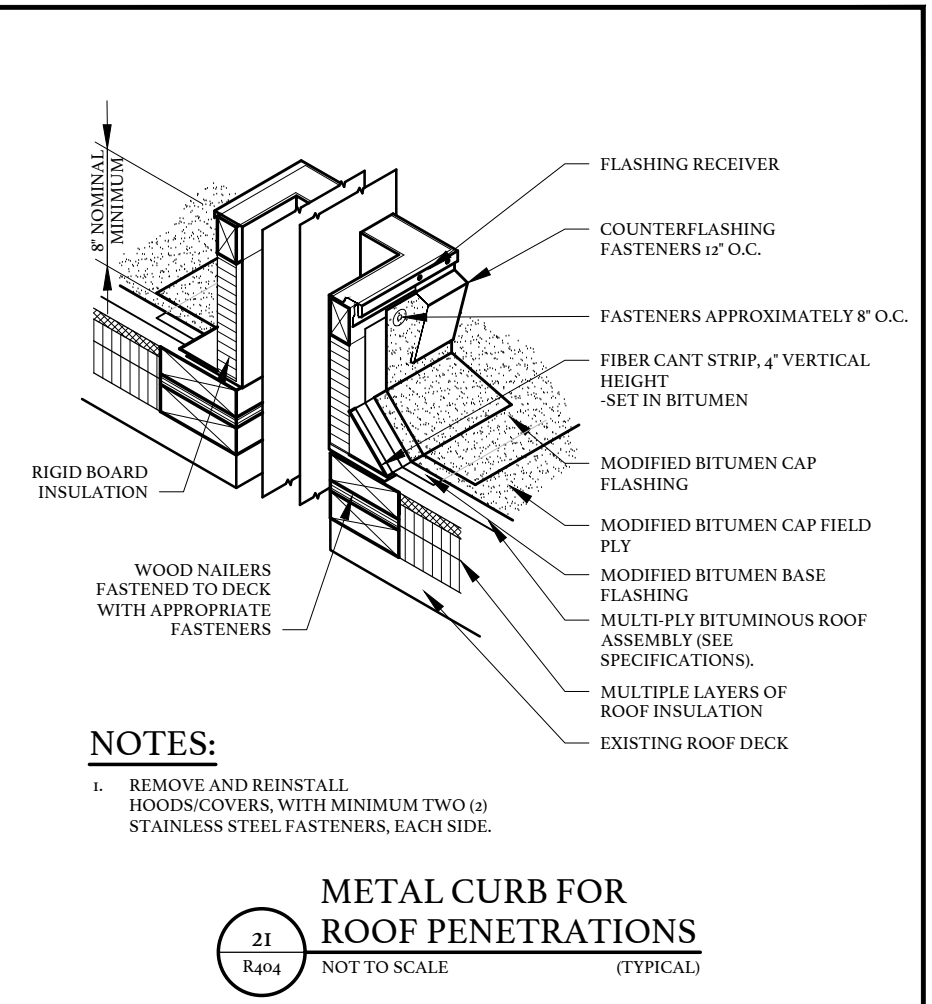
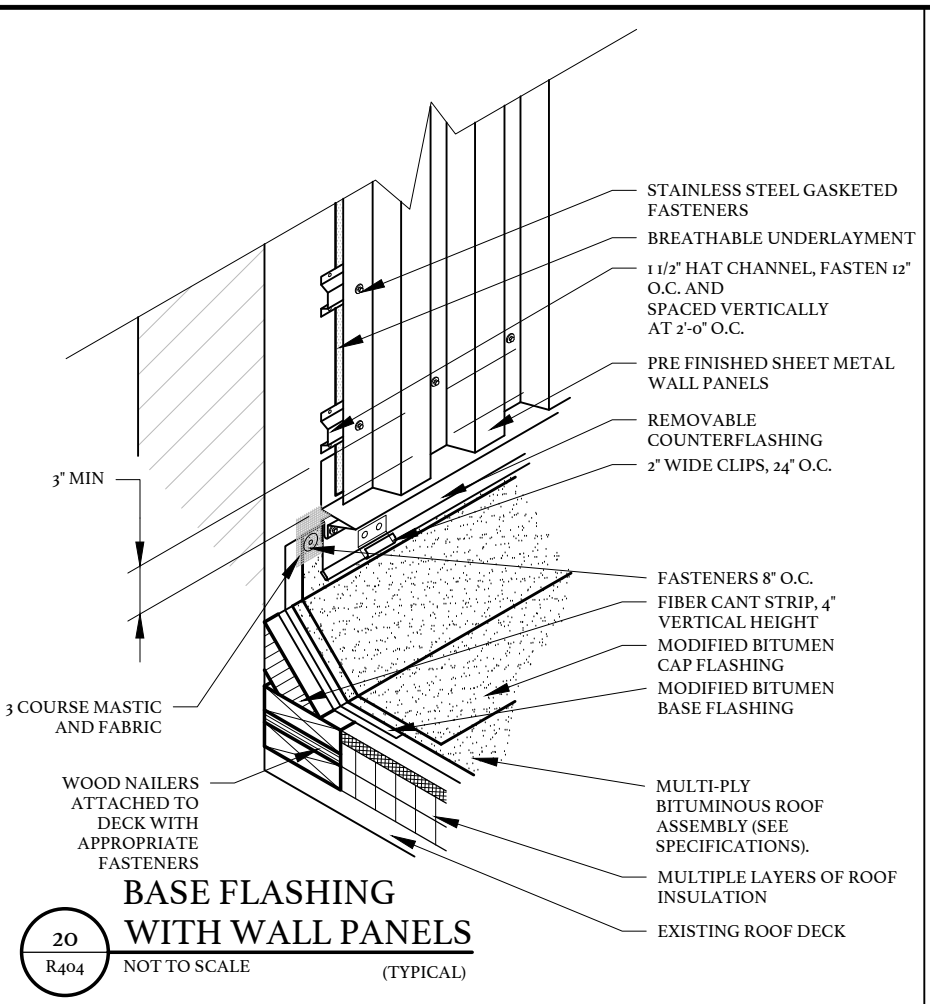
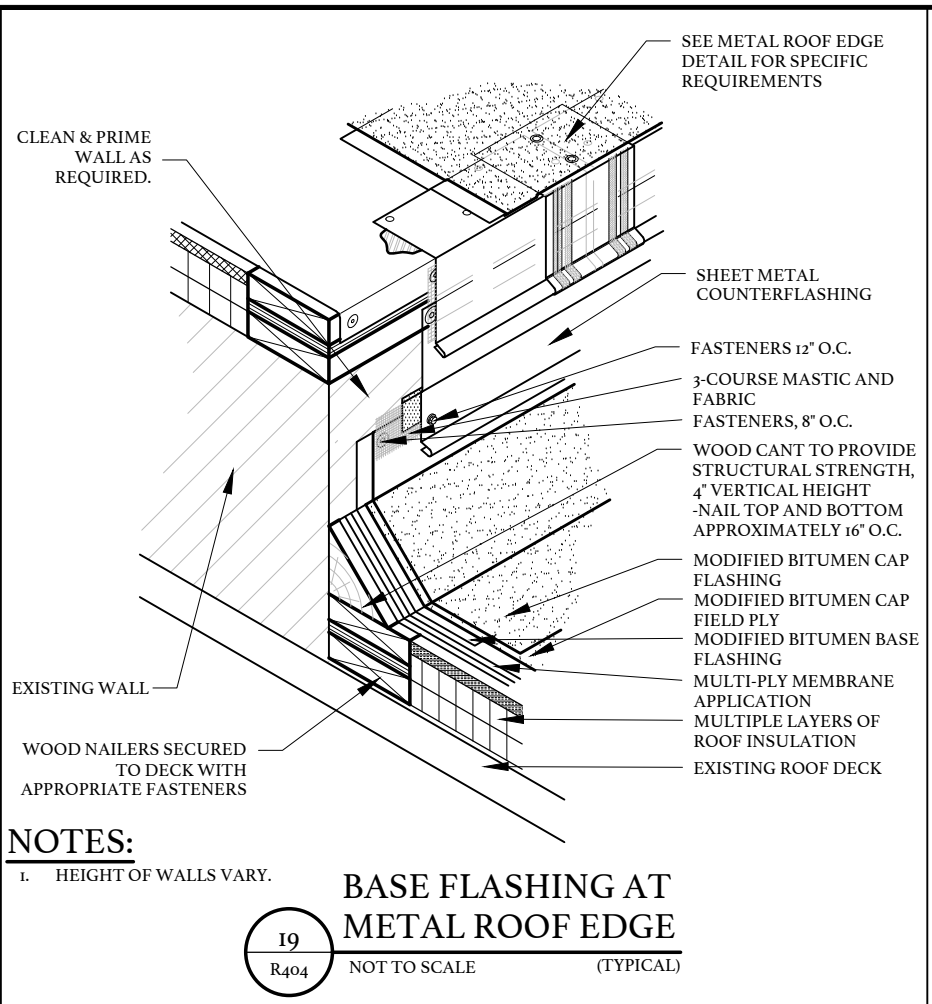
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**DETAILS / SECTIONS**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



HORRY-GEORGETOWN TECHNICAL COLLEGE  
REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS

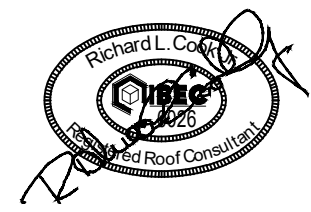
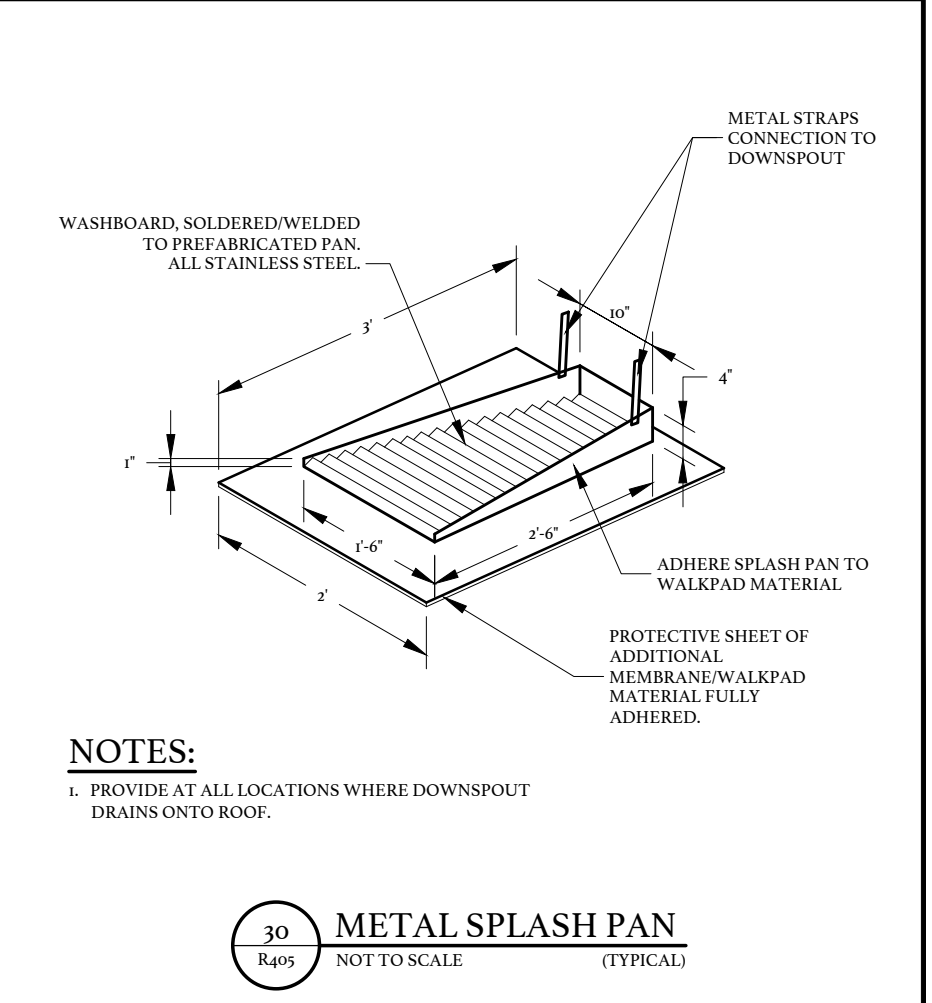
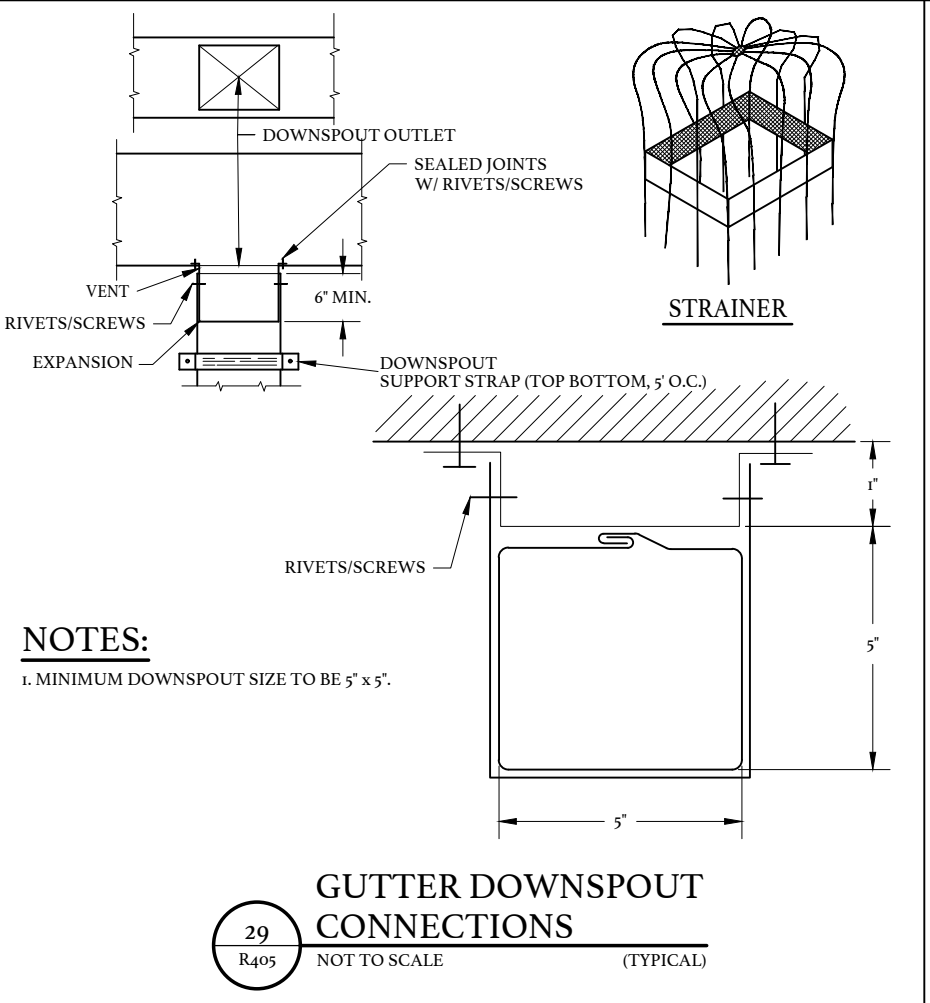
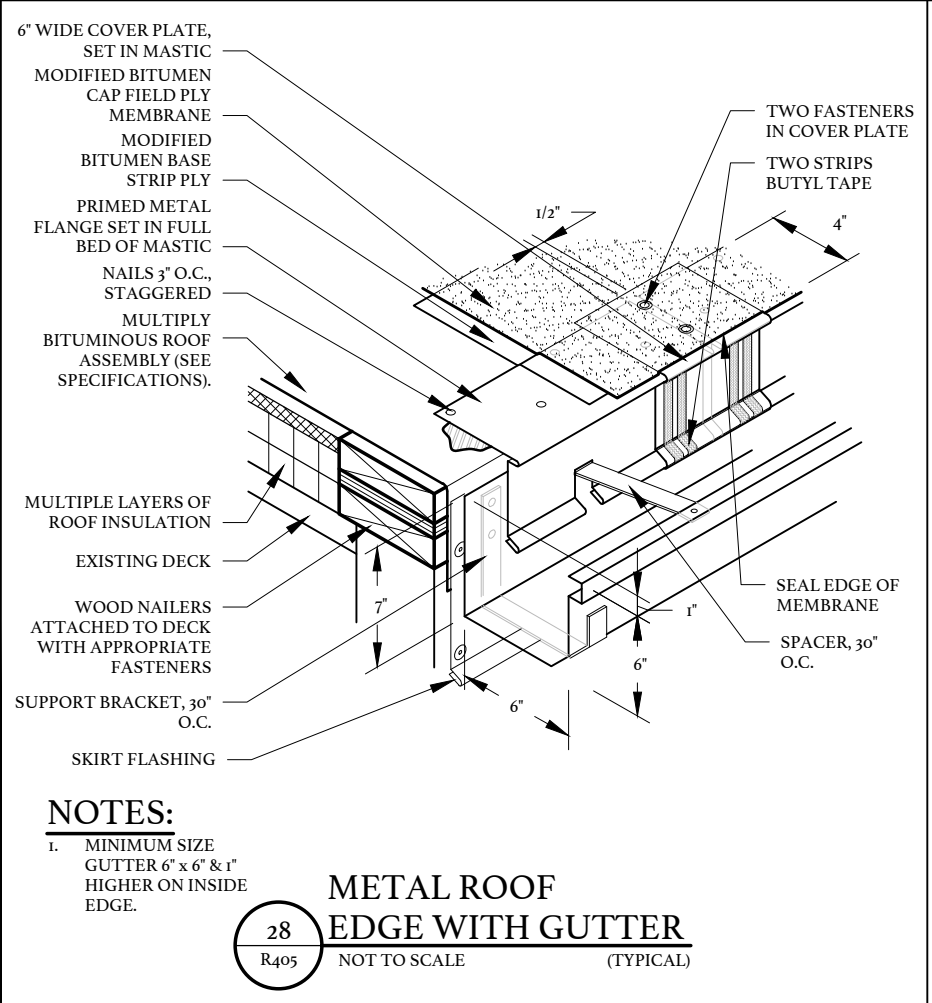
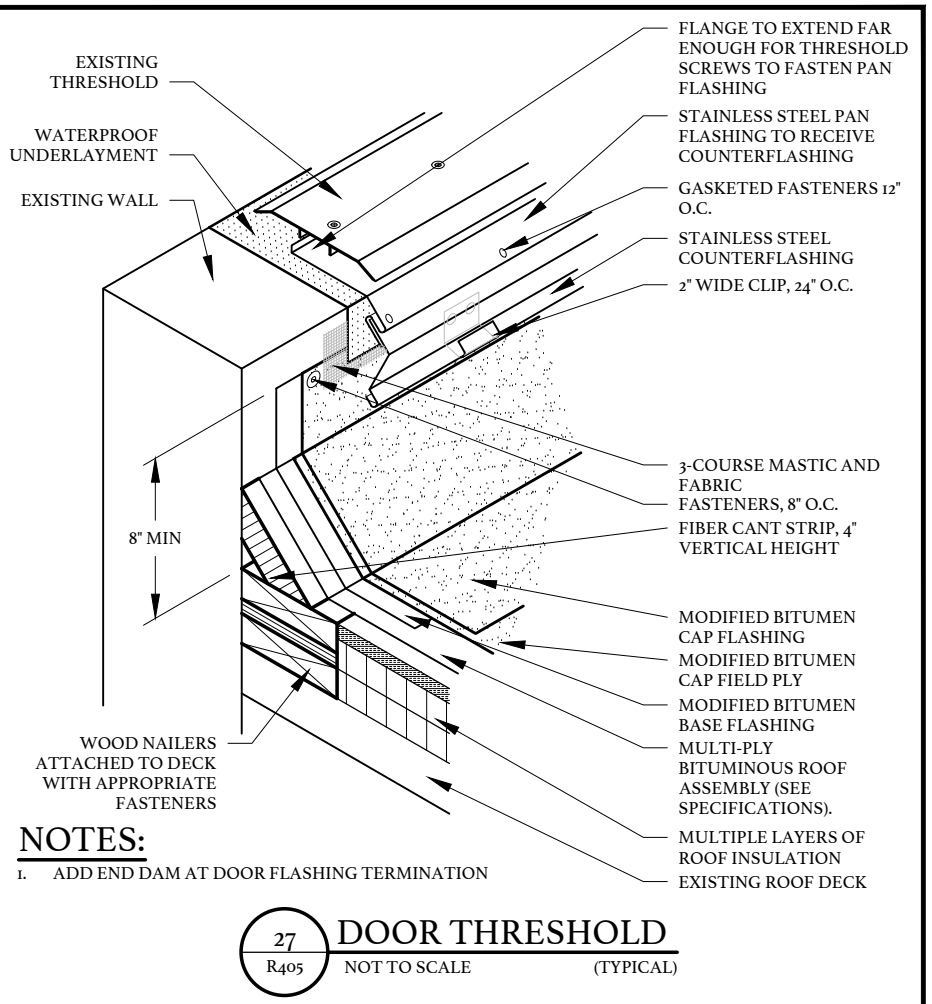
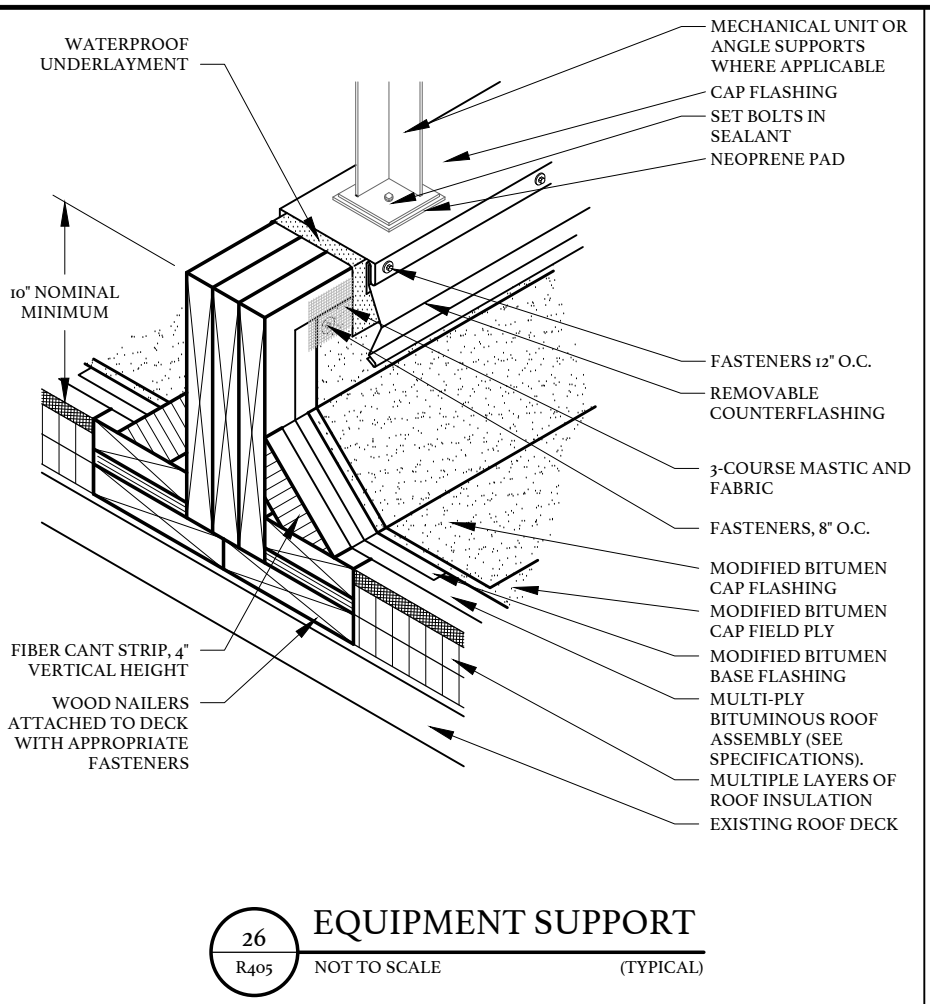
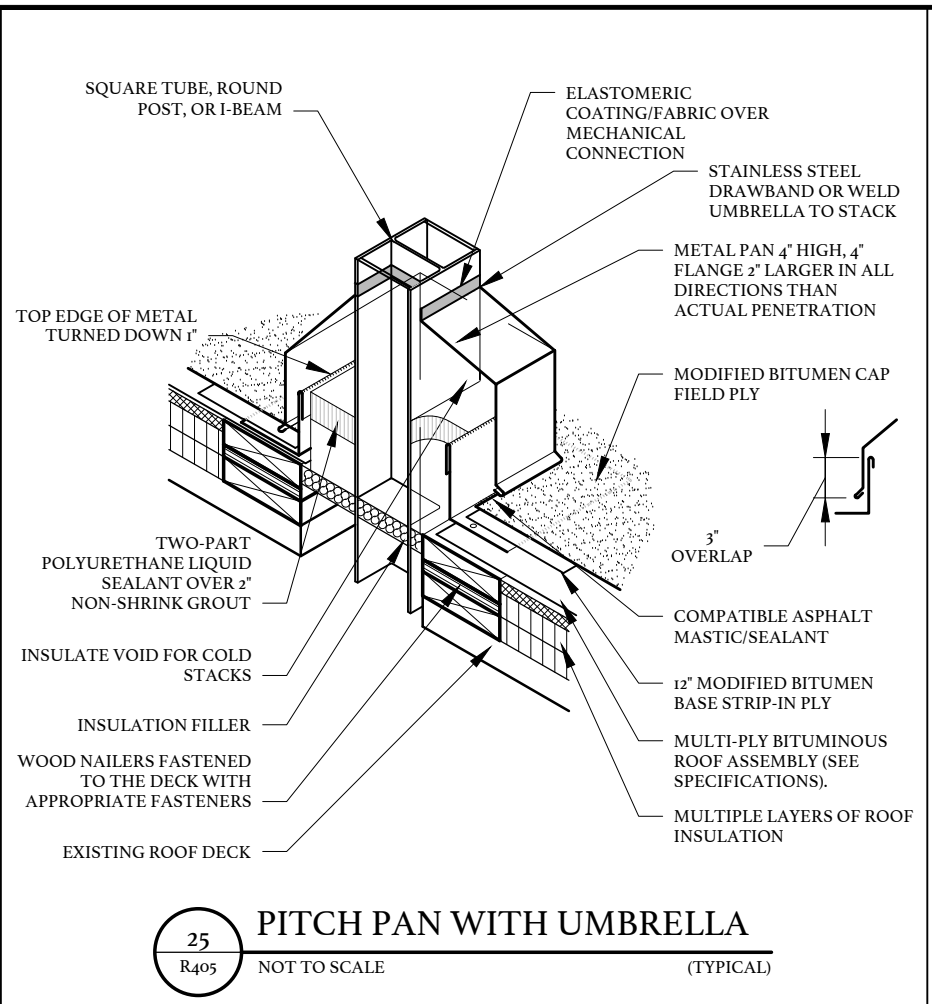
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**DETAILS / SECTIONS**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

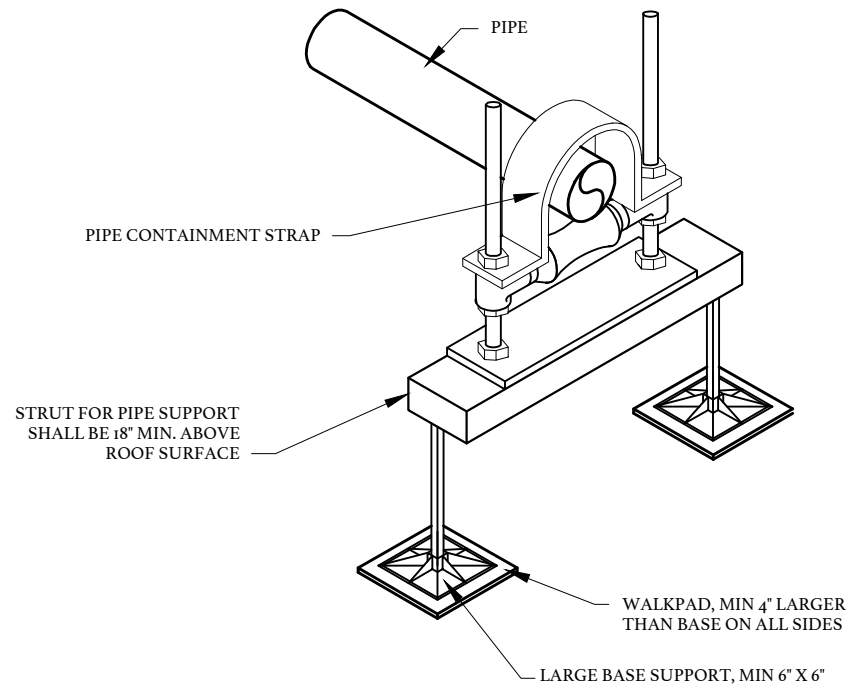


HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS**  
OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C  
MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**DETAILS / SECTIONS**

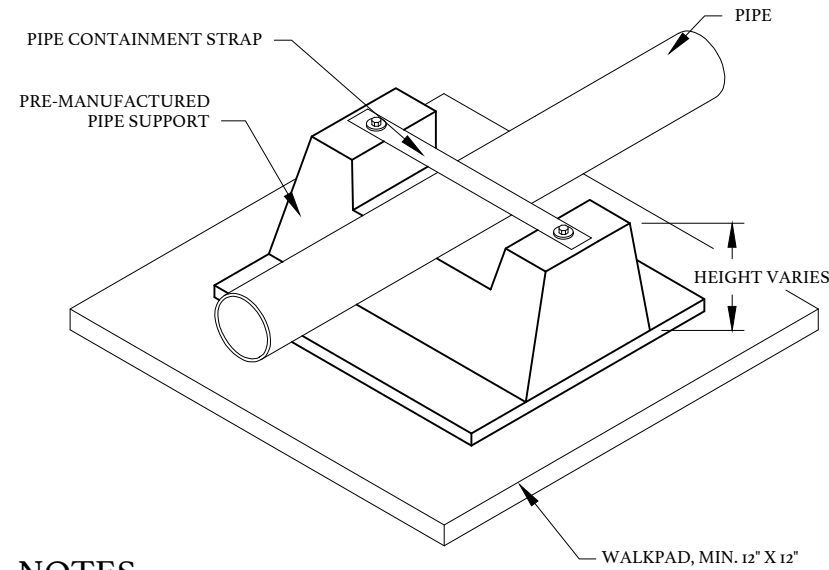
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



**NOTES:**

1. PIPE SUPPORTS TO BE INSTALLED AT 6' O.C. INTERVALS.
2. BOTH WALKPAD AND SUPPORT SHALL BE ADHERED WITH ROOF MASTIC

31  
R406  
**GAS PIPE SUPPORT (≥ 2" Ø)**  
NOT TO SCALE (TYPICAL)



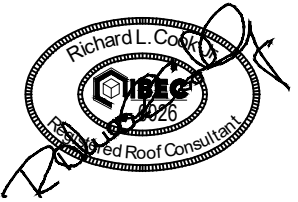
**NOTES:**

1. THIS DETAIL IS FOR CONDUIT AND SMALL DIAMETER (LESS THAN 2") PIPES ON ROOF SURFACE.
2. HEIGHT TO BE PROVIDED TO EXTEND PIPES OVER EXPANSION JOINTS. TO REPLACE ALL LOCATIONS CURRENTLY USING CMU BLOCK OR WOOD.
3. FOR USE AT SUPPORTS, SET BLOCKING AT MAXIMUM 5' O.C. AND AT ALL CHANGES IN DIRECTION.
4. LARGER PADS ARE TO BE USED AT SATELLITE DISH CONFIGURATIONS, WHERE APPLICABLE.
5. EXISTING SUPPORTS CAN BE USED IN COMBINATION WITH ADDED NEW SUPPORTS FOR REQUIRED SPACING.
6. WALKPAD USED FOR WALKWAYS, ROOF ACCESS, AND AROUND MECHANICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS DESIGNATED WALKPAD MATERIAL.

32  
R406  
**PREFABRICATED CONDUIT/PIPE  
SUPPORT WITH PAD (< 2" Ø)**  
NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

33  
R406  
**NOT USED**



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING  
SYSTEMS GRAND STRAND CAMPUS**

OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

DETAILS / SECTIONS

R406

INTENTIONALLY LEFT BLANK

34  
R406  
**NOT USED**

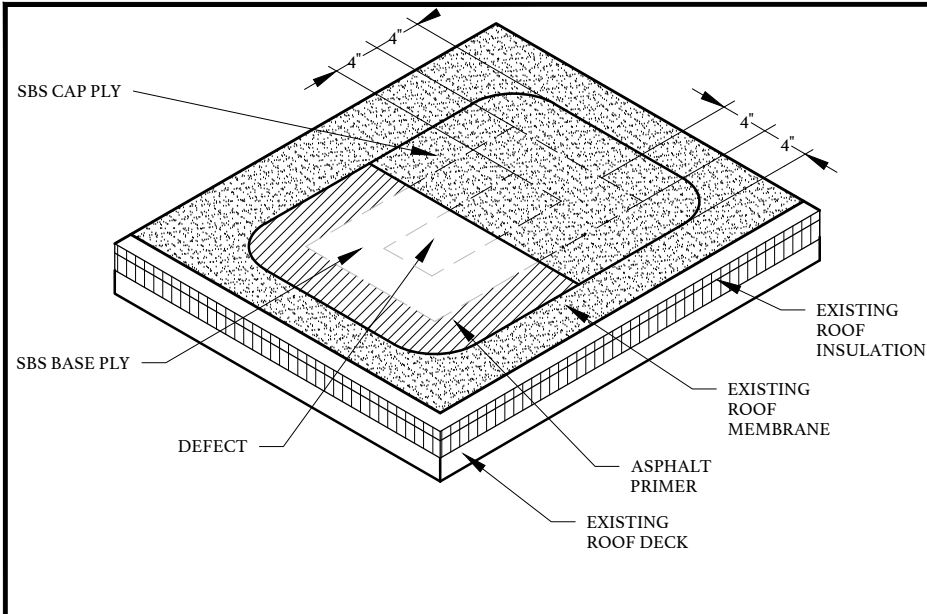
INTENTIONALLY LEFT BLANK

35  
R406  
**NOT USED**

INTENTIONALLY LEFT BLANK

36  
R406  
**NOT USED**

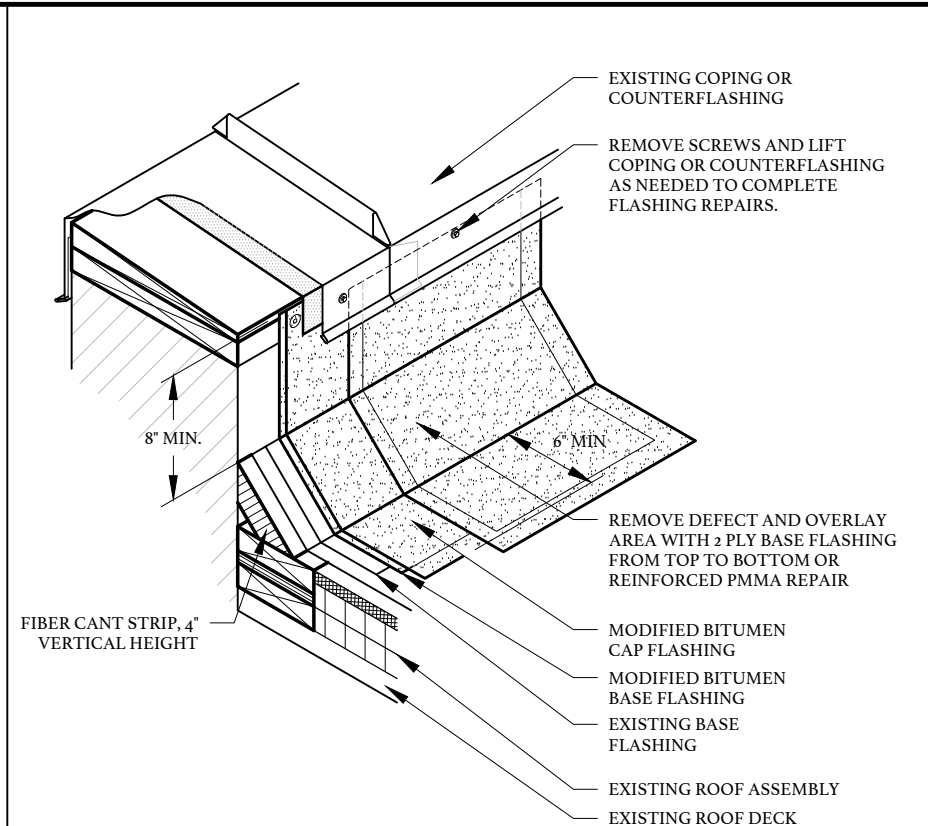
\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF THE BEE GROUP. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



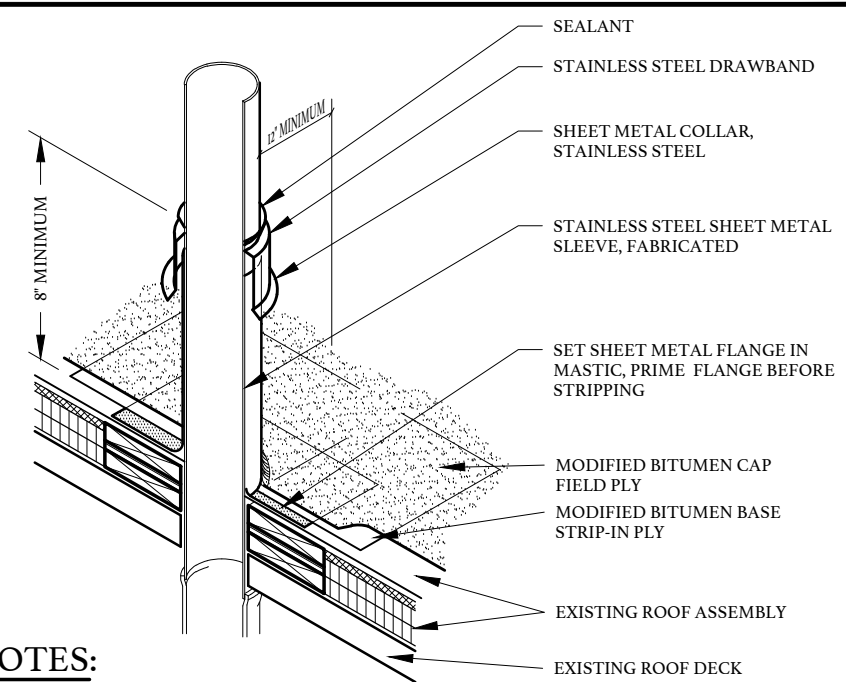
**NOTES:**

1. TIE-IN TO THE EXISTING ROOF MEMBRANE IS APPLIED SIMILARLY WITH SURFACE PREPARATION, PRIMING OF THE EXISTING SURFACE, AND THE EXTENSION OF TWO MODIFIED BITUMEN PLYED ONTO THE EXISTING ROOF AREA AS SHOWN.
2. INCLUDE BLISTER REPAIR, PRIOR TO MEMBRANE REPAIR, IN ACCORDANCE WITH NRCA LOW SLOPED ROOF REPAIRS MANUAL / ARMA / SPRI.

**1**  
R501 NOT TO SCALE (TYPICAL)  
**MEMBRANE REPAIR**



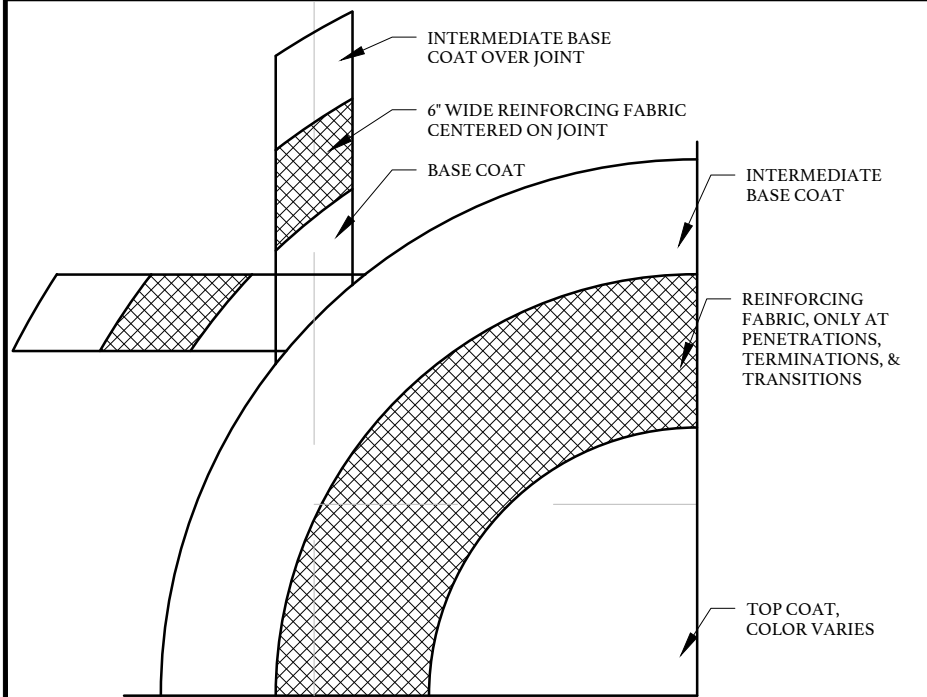
**2**  
R501 NOT TO SCALE (TYPICAL)  
**BASE FLASHING REPAIR AT PARAPET**



**NOTES:**

1. REMOVE LOOSE GRANULES, CLEAN AND PRIME EXISTING ROOF IN AREA OF TIE-IN PRIOR TO APPLYING NEW MATERIALS.
2. MEMBRANE REPAIRS/REPLACEMENT SHALL BE IN ACCORDANCE WITH NRCA REPAIR MANUAL.
3. PROVIDE SHEET METAL COLLAR WITH NEW SEALANT. AT ALL LEAD BOOTS PROVIDE NEW "DOUGHNUT".
4. SIMILAR REPAIR FOR THERMOSET AND THERMOPLASTICS IN ACCORDANCE WITH NRCA LOW SLOPED ROOF REPAIRS MANUAL / ARMA / SPRI.

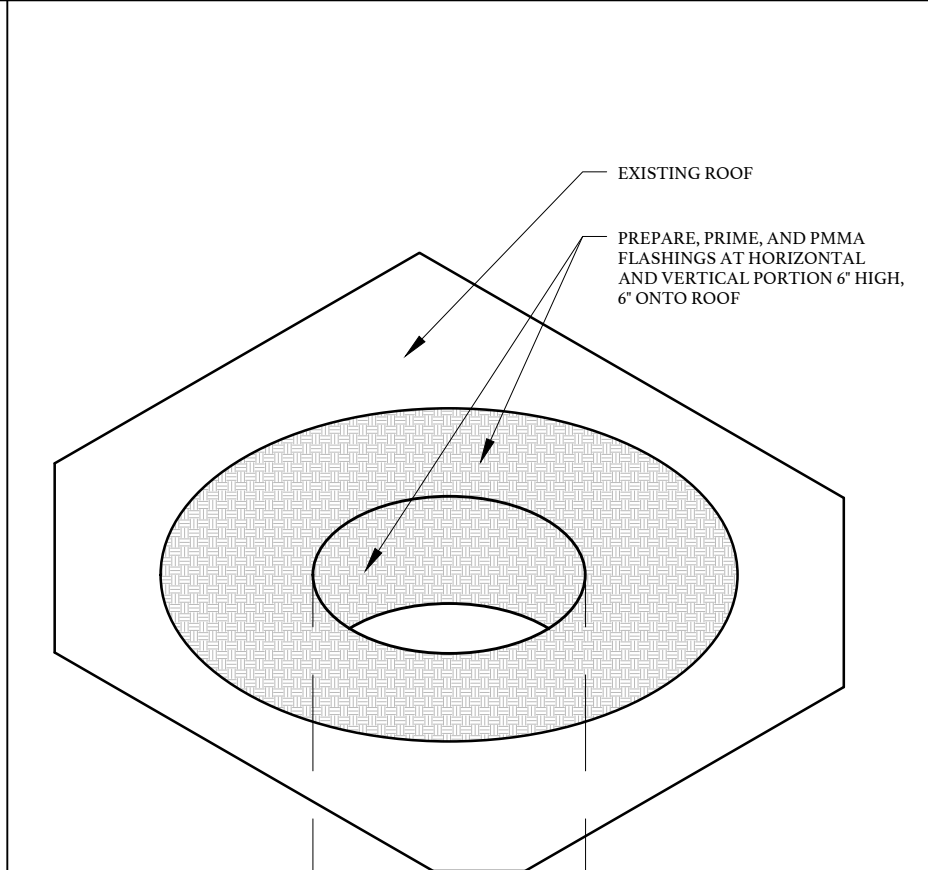
**3**  
R501 NOT TO SCALE (TYPICAL)  
**PERMANENT ROUND SUPPORT PENETRATION**



**NOTES:**

1. PREPARE AND PRIME ALL SURFACES IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
2. FLUID APPLIED ELASTOMERIC ROOF COATING SYSTEM PER CRITERIA.
3. ALLOW ALL AREAS TO THOROUGHLY DRY PRIOR TO INSTALLATION OF THE LIQUID APPLIED ACRYLIC MEMBRANE TO THE ENTIRE ROOF SURFACE.

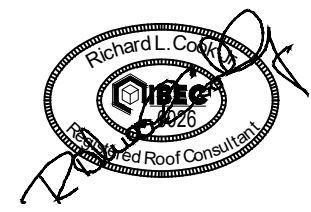
**4**  
R501 NOT TO SCALE (TYPICAL)  
**FLUID APPLIED ELASTOMERIC COATING OVER LOW SLOPED ROOFING**



**5**  
R501 NOT TO SCALE (TYPICAL)  
**CIRCULAR OPENINGS (AREA G)**

INTENTIONALLY LEFT BLANK

**6**  
R501 NOT USED



HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS**

OWNER PROJECT NUMBER: H59-0229-PD  
BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	05/21/2024

**REPAIR DETAILS / SECTIONS**



\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF ADC ENGINEERING, INC. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

**ABBREVIATIONS:**

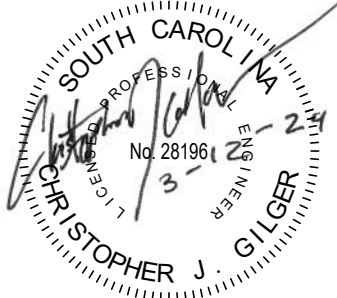
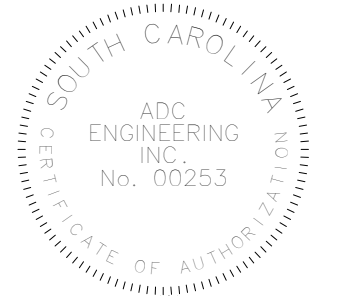
AB	ANCHOR BOLT
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BLK	BLOCK
BTWN	BETWEEN
CANT	CANTILEVER
C/C	CENTER TO CENTER
CHAM	CHAMFER
CIRC	CIRCULAR
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWGS	DRAWINGS
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR

F/	FACE OF
FC	FILLED CELL
FF	FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FDN	FOUNDATION
FRMG	FRAMING
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
GA	GAUGE
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE, ING
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LB	POUND
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSL	LONG SLOTTED HOLES
LT	LIGHT
LTWT	LIGHTWEIGHT
MAS	MASONRY
MAX	MAXIMUM
MBD	METAL BUILDING DESIGNER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MO	MASONRY OPENING
MSD	METAL STUD DESIGNER
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OW	OPEN WEB

PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PEMB	PRE-ENGINEERED METAL BUILDING
RAD	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
RET	RETURN
REV	REVISION
RP	RADIUS POINT
RT	RIGHT
RTU	ROOF TOP UNIT
S	SOUTH
SA	SLEEVE ANCHOR
SB	SLAB BOLSTER
SCHED	SCHEDULE
SECT	SECTION
SF-	STEP FOOTING
SIM	SIMILAR
SPEC	SPECIFICATIONS
SP	SPACING,ES
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
SYMM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
TC	TIE COLUMN
TCX	TOP CHORD EXTENSION
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
TRAN	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
TD	TREATED
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWR	WELDED WIRE REINFORCEMENT

<b>DRAWING LIST</b>	
<b>SHEET NUMBER</b>	<b>SHEET NAME</b>
S001	ABBREVIATIONS
S3-002	BUILDING 300 - DESIGN CRITERIA
S3-101	BUILDING 300 - WIND PRESSURE DIAGRAM
S10-002	BUILDING 1000 - DESIGN CRITERIA
S10-003	BUILDING 1000 - DESIGN CRITERIA
S10-101	BUILDING 1000 - WIND PRESSURE

Horry-Georgetown Technical College  
**REBID REPAIR/REPLACE ROOFING SYSTEMS**  
**GRAND STRAND CAMPUS**  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 MYRTLE BEACH, SOUTH CAROLINA



DATE: 05/21/2024  
 ADC PROJECT #: 23291  
 DESIGNED: C.J.G.  
 CHECKED: C.J.G.  
 DRAWN: SAC  
 REVISION:

**ABBREVIATIONS**  
**S001**  
 SHEET 33 OF 38

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF ADC ENGINEERING, INC. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

# STRUCTURAL DESIGN CRITERIA

## 1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16

ROOF LIVE LOADS:  
FLAT ROOF 20-PSF

GROUND SNOW LOADS:  
SNOW 5-PSF

DEAD LOADS:  
ACTUAL MATERIAL WEIGHTS PER ASCE 7-16, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION

## 2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16

S<sub>s</sub> = 0.319  
S<sub>1</sub> = 0.116  
S<sub>ds</sub> = 0.329  
S<sub>d1</sub> = 0.183  
SITE CLASS: "D" (DEFAULT)  
BUILDING RISK CATEGORY: "III"  
IMPORTANCE FACTOR: I<sub>e</sub> = 1.25  
SEISMIC DESIGN CATEGORY: "C"  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE SEISMIC FORCE RESISTING SYSTEM:  
-EXISTING  
RESPONSE MODIFICATION FACTOR: R = N/A  
DEFLECTION AMPLIFICATION FACTOR: C<sub>d</sub> = N/A  
SYSTEM OVERSTRENGTH FACTOR: OMEGA = N/A

ALLOWABLE INTERSTORY DRIFT: 0.02 H<sub>sx</sub>

## 3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16

V = 156 mph (3-sec gust)  
BUILDING RISK CATEGORY: "III"  
EXPOSURE CATEGORY: "B"  
ENCLOSURE CLASSIFICATION: ENCLOSED

WIND DIRECTIONALITY FACTOR: K<sub>d</sub> = 0.85  
TOPOGRAPHIC FACTOR: K<sub>zt</sub> = 1.0  
VELOCITY EXPOSURE COEFFICIENT: K<sub>z</sub> = 0.62  
GROUND ELEVATION FACTOR: K<sub>e</sub> = 1.0  
VELOCITY PRESSURE: q = 32.83 psf (ULT)  
q = 19.70 psf (ASD)

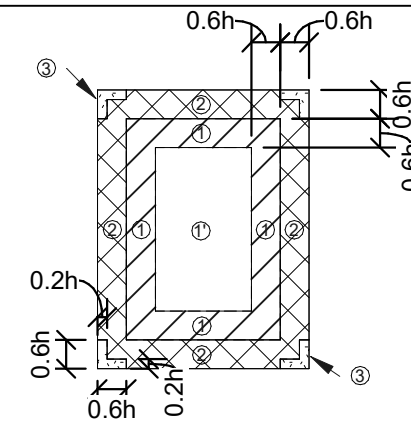
INTERNAL PRESSURE COEFFICIENT: G<sub>Cpi</sub> = +/- 0.18

ALLOWABLE INTERSTORY DRIFT: 0.0025 H<sub>sx</sub>

## Components and Cladding Wind Pressures (Factored/ASD): Flat Roofs & Low Sloped Roofs

### ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1	9.60	-33.49
ROOF FIELD	20	1	9.60	-31.52
ROOF FIELD	50	1	9.60	-27.58
ROOF FIELD	100	1	9.60	-25.61
ROOF FIELD EDGE	10	1'	9.60	-17.73
ROOF FIELD EDGE	20	1'	9.60	-17.73
ROOF FIELD EDGE	50	1'	9.60	-17.73
ROOF FIELD EDGE	100	1'	9.60	-17.73
ROOF EDGE	10	2	9.60	-45.31
ROOF EDGE	20	2	9.60	-42.36
ROOF EDGE	50	2	9.60	-38.42
ROOF EDGE	100	2	9.60	-35.46
ROOF CORNER	10	3	9.60	-63.04
ROOF CORNER	20	3	9.60	-57.13
ROOF CORNER	50	3	9.60	-48.27
ROOF CORNER	100	3	9.60	-42.36
WALL FIELD	10	4	17.73	-19.50
WALL FIELD	20	4	16.84	-18.62
WALL FIELD	50	4	15.96	-17.73
WALL FIELD	100	4	14.18	-16.84
WALL EDGE	10	5	17.73	-24.82
WALL EDGE	20	5	16.84	-23.05
WALL EDGE	50	5	15.96	-20.39
WALL EDGE	100	5	14.18	-18.62



LOW-SLOPED ROOF ZONE DIAGRAM

h=20 ft. 0.6h=12 ft.  
0.2h=4 ft.

## GENERAL NOTES

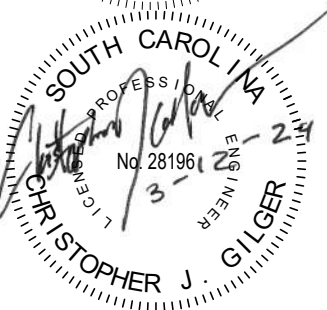
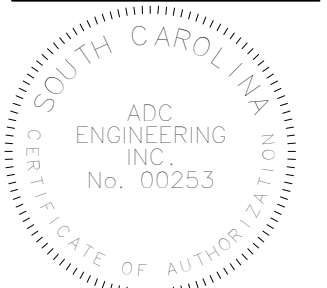
- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
- COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
- USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
- ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCED TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

HORRY-GEORGETOWN TECHNICAL COLLEGE  
REBID REPAIR/REPLACE  
ROOFING SYSTEMS  
GRAND STRAND CAMPUS  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
MYRTLE BEACH,  
SOUTH CAROLINA

**ADC**  
**ENGINEERING**  
1226 YEAMANS HALL ROAD  
HANAHAN, SC 29410  
843-566-0161 ADCENGINEERING.COM

The  
**BUILDING ENVELOPE ENCLOSURE**  
Group

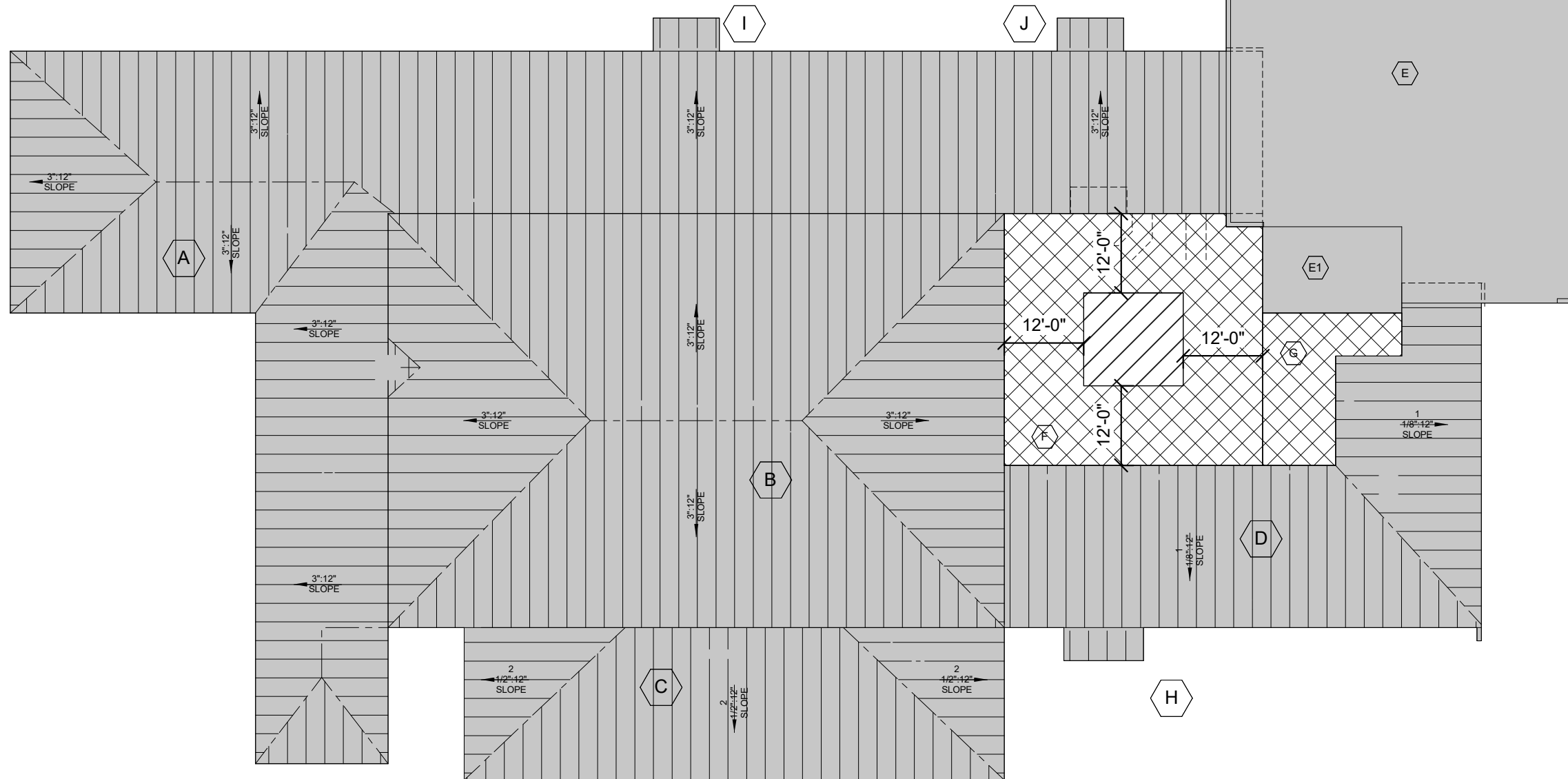
1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410




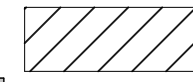
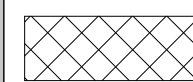


DATE: 05/21/2024  
ADC PROJECT #: 23291  
DESIGNED: C.J.G.  
CHECKED: C.J.G.  
DRAWN: SAC  
REVISION:

**BUILDING 300 -  
DESIGN CRITERIA  
S3-002**

THESE PROJECT DRAWINGS ARE THE PROPERTY OF ADC ENGINEERING, INC. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.



- GENERAL NOTES:
- FFE = 0' - 0"
  - ROOF ELEV = 20' (+/-)
  - SEE S3-002 FOR WIND PRESSURES

 = ZONE 1' WIND PRESSURE  
 = ZONE 1 WIND PRESSURE  
 = ZONE 2 WIND PRESSURE  
 = ZONE 3 WIND PRESSURE  
 = NOT IN SCOPE

 = SEE BEE DRAWINGS FOR ROOF AREAS LABEL

**1 BUILDING 300**  
1" = 20'-0"

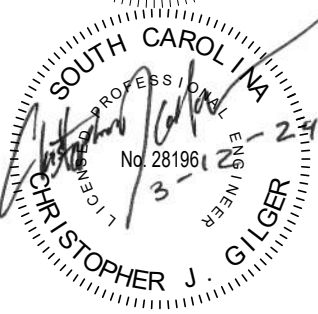
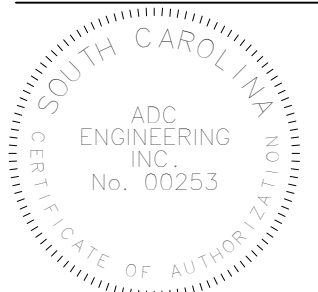
KEYED NOTES (THIS SHEET ONLY)

HORRY-GEORGETOWN TECHNICAL COLLEGE  
 REBID REPAIR/REPLACE  
 ROOFING SYSTEMS  
 GRAND STRAND CAMPUS  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 MYRTLE BEACH,  
 SOUTH CAROLINA

**ADC ENGINEERING**  
 1226 YEAMANS HALL ROAD  
 HANAHAN, SC 29410  
 843-566-0161 ADCENGINEERING.COM

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
 HANAHAN, SC 29410



DATE: 05/21/2024  
 ADC PROJECT #: 23291  
 DESIGNED: CJG  
 CHECKED: CJG  
 DRAWN: SAC  
 REVISION:

**BUILDING 300 - WIND PRESSURE DIAGRAM**

**S3-101**

# STRUCTURAL DESIGN CRITERIA

## 1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16

ROOF LIVE LOADS:  
FLAT ROOF 20-PSF

GROUND SNOW LOADS:  
SNOW 5-PSF

DEAD LOADS:  
ACTUAL MATERIAL WEIGHTS PER ASCE 7-16, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION

## 2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16

S<sub>s</sub> = 0.318  
S<sub>1</sub> = 0.116  
S<sub>ds</sub> = 0.328  
S<sub>d1</sub> = 0.183  
SITE CLASS: "D" (DEFAULT)  
BUILDING RISK CATEGORY: "III"  
IMPORTANCE FACTOR: I<sub>e</sub> = 1.25  
SEISMIC DESIGN CATEGORY: "C"  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE  
SEISMIC FORCE RESISTING SYSTEM:  
-EXISTING  
RESPONSE MODIFICATION FACTOR: R = N/A  
DEFLECTION AMPLIFICATION FACTOR: Cd = N/A  
SYSTEM OVERSTRENGTH FACTOR: OMEGA = N/A

ALLOWABLE INTERSTORY DRIFT: 0.02 H<sub>sx</sub>

## 3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16

V = 156 mph (3-sec gust)  
BUILDING RISK CATEGORY: "III"  
EXPOSURE CATEGORY: "B"  
ENCLOSURE CLASSIFICATION: ENCLOSED

### (A) ROOF HEIGHTS 20FT OR LESS

WIND DIRECTIONALITY FACTOR: K<sub>d</sub> = 0.85  
TOPOGRAPHIC FACTOR: K<sub>zt</sub> = 1.0  
VELOCITY EXPOSURE COEFFICIENT: K<sub>z</sub> = 0.62  
GROUND ELEVATION FACTOR: K<sub>e</sub> = 1.0  
VELOCITY PRESSURE: q = 32.83 psf (ULT)  
q = 19.70 psf (ASD)

INTERNAL PRESSURE COEFFICIENT: GC<sub>pi</sub> = +/- 0.18

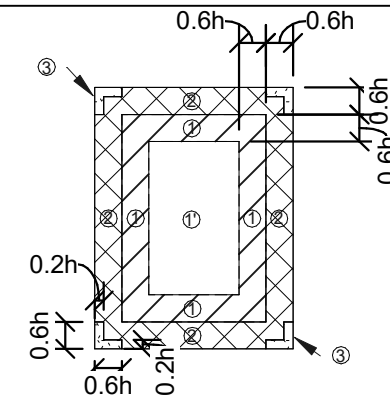
ALLOWABLE INTERSTORY DRIFT: 0.0025 H<sub>sx</sub>

## Components and Cladding Wind Pressures For A Roofs (Factored/ASD): ZONES: D, D1, D2, E, E2, E3, G, H, AND I

ASD PRESSURES				
DESCRIPTION	AREA SF	ZONE	MAX P PSF	MIN P PSF
ROOF FIELD	10	1'	9.60	-17.73
ROOF FIELD	20	1'	9.60	-17.73
ROOF FIELD	50	1'	9.60	-17.73
ROOF FIELD	100	1'	9.60	-17.73
ROOF FIELD EDGE	10	1	9.60	-33.49
ROOF FIELD EDGE	20	1	9.60	-31.05
ROOF FIELD EDGE	50	1	9.60	-27.82
ROOF FIELD EDGE	100	1	9.60	-25.37
ROOF EDGE	10	2	9.60	-45.31
ROOF EDGE	20	2	9.60	-42.18
ROOF EDGE	50	2	9.60	-38.02
ROOF EDGE	100	2	9.60	-34.87
ROOF CORNER	10	3	9.60	-63.04
ROOF CORNER	20	3	9.60	-56.76
ROOF CORNER	50	3	9.60	-48.44
ROOF CORNER	100	3	9.60	-42.18
WALL FIELD	10	4	17.73	-19.50
WALL FIELD	20	4	16.78	-18.56
WALL FIELD	50	4	15.54	-17.32
WALL FIELD	100	4	14.60	-16.37
WALL EDGE	10	5	17.73	-24.82
WALL EDGE	20	5	16.78	-22.93
WALL EDGE	50	5	15.54	-20.45
WALL EDGE	100	5	14.60	-18.56

## Components and Cladding Wind Parapets For A Roofs

DESCRIPTION	AREA SF	ZONE	P (NET) PSF
WINDWARD PARAPET	10	4_P	66.22
WINDWARD PARAPET	10	5_P	66.22
LEEWARD PARAPET	10	4_P	39.11
LEEWARD PARAPET	10	5_P	44.7



LOW-SLOPED A ROOF ZONE DIAGRAM

h=20 ft. 0.6h=12 ft.  
0.2h=4 ft.

## GENERAL NOTES

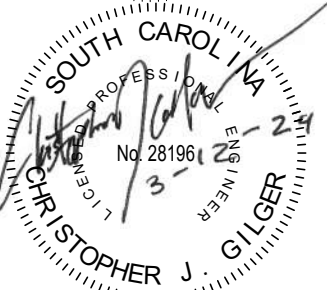
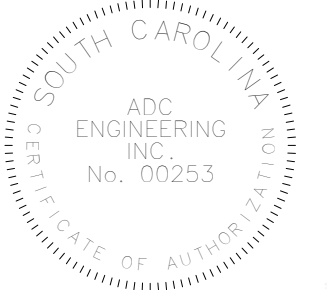
- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
- COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
- USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
- ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCED TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

HORRY-GEORGETOWN TECHNICAL COLLEGE  
REBID REPAIR/REPLACE  
ROOFING SYSTEMS  
GRAND STRAND CAMPUS  
OWNER PROJECT NUMBER: H59-6229-PD  
BEE PROJECT NUMBER: 23010C  
MYRTLE BEACH,  
SOUTH CAROLINA

**ADC**  
**ENGINEERING**  
1226 YEAMANS HALL ROAD  
HANAHAN, SC 29410  
843-566-0161 ADCENGINEERING.COM

The  
**BUILDING ENVELOPE ENCLOSURE**  
Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



DATE: 05/21/2024  
ADC PROJECT #: 23291  
DESIGNED: CJG  
CHECKED: CJG  
DRAWN: SAC  
REVISION:

**BUILDING 1000 -  
DESIGN CRITERIA  
S10-002**

\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF ADC ENGINEERING, INC. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED.

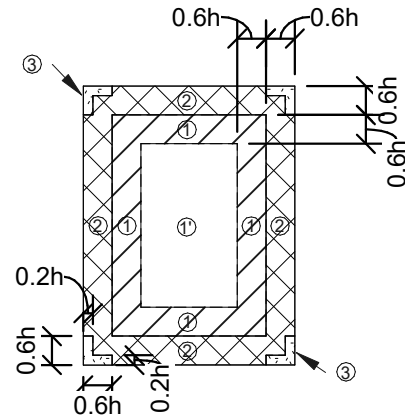
# STRUCTURAL DESIGN CRITERIA

(B) ROOF HEIGHTS BETWEEN 20FT AND 30FT  
 WIND DIRECTIONALITY FACTOR:  $K_d = 0.85$   
 TOPOGRAPHIC FACTOR:  $K_{zt} = 1.0$   
 VELOCITY EXPOSURE COEFFICIENT:  $K_z = 0.70$   
 GROUND ELEVATION FACTOR:  $K_e = 1.0$   
 VELOCITY PRESSURE:  $q = 37.07$  psf (ULT)  
 $q = 22.24$  psf (ASD)

(C) ROOF HEIGHTS BETWEEN 30FT AND 45FT  
 WIND DIRECTIONALITY FACTOR:  $K_d = 0.85$   
 TOPOGRAPHIC FACTOR:  $K_{zt} = 1.0$   
 VELOCITY EXPOSURE COEFFICIENT:  $K_z = 0.785$   
 GROUND ELEVATION FACTOR:  $K_e = 1.0$   
 VELOCITY PRESSURE:  $q = 41.57$  psf (ULT)  
 $q = 24.94$  psf (ASD)

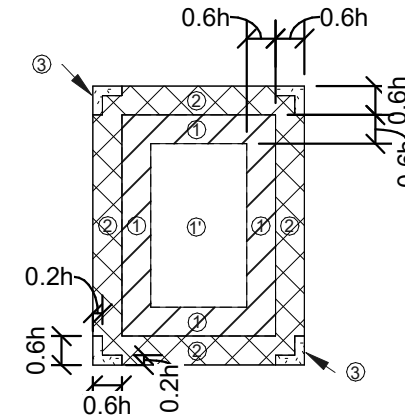
INTERNAL PRESSURE COEFFICIENT:  $GC_{pi} = +/- 0.18$

ALLOWABLE INTERSTORY DRIFT:  $0.0025 H_{sx}$



LOW-SLOPED ROOF ZONE DIAGRAM

$h=30$  ft.  $0.6h=18$  ft.  
 $0.2h=6$  ft.



LOW-SLOPED ROOF ZONE DIAGRAM

$h=45$  ft.  $0.6h=27$  ft.  
 $0.2h=9$  ft.

Components and Cladding Wind Parapets For B Roofs			
DESCRIPTION	AREA	ZONE	P (NET)
	SF		PSF
WINDWARD PARAPET	10	4_P	72.83
WINDWARD PARAPET	10	5_P	93.31
LEEWARD PARAPET	10	4_P	43.01
LEEWARD PARAPET	10	5_P	49.16

Components and Cladding Wind Pressures For B Roofs (Factored/ASD): ZONES: B, B1, E1, E4, F				
ASD PRESSURES				
DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-20.02
ROOF FIELD	20	1'	9.60	-20.02
ROOF FIELD	50	1'	9.60	-20.02
ROOF FIELD	100	1'	9.60	-20.02
ROOF FIELD EDGE	10	1	9.60	-37.81
ROOF FIELD EDGE	20	1	9.60	-35.05
ROOF FIELD EDGE	50	1	9.60	-31.40
ROOF FIELD EDGE	100	1	9.60	-28.65
ROOF EDGE	10	2	9.60	-51.15
ROOF EDGE	20	2	9.60	-47.62
ROOF EDGE	50	2	9.60	-42.92
ROOF EDGE	100	2	9.60	-39.36
ROOF CORNER	10	3	9.60	-71.17
ROOF CORNER	20	3	9.60	-64.07
ROOF CORNER	50	3	9.60	-54.69
ROOF CORNER	100	3	9.60	-47.62
WALL FIELD	10	4	20.02	-22.02
WALL FIELD	20	4	18.95	-20.95
WALL FIELD	50	4	17.55	-19.55
WALL FIELD	100	4	16.48	-18.48
WALL EDGE	10	5	20.02	-28.02
WALL EDGE	20	5	18.95	-25.89
WALL EDGE	50	5	17.55	-23.09
WALL EDGE	100	5	16.48	-20.95

Components and Cladding Wind Pressures For C Roofs (Factored/ASD): ZONES: C				
ASD PRESSURES				
DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-22.45
ROOF FIELD	20	1'	9.60	-22.45
ROOF FIELD	50	1'	9.60	-22.45
ROOF FIELD	100	1'	9.60	-22.45
ROOF FIELD EDGE	10	1	9.60	-42.40
ROOF FIELD EDGE	20	1	9.60	-39.31
ROOF FIELD EDGE	50	1	9.60	-35.22
ROOF FIELD EDGE	100	1	9.60	-32.12
ROOF EDGE	10	2	9.60	-57.36
ROOF EDGE	20	2	9.60	-53.40
ROOF EDGE	50	2	9.60	-48.13
ROOF EDGE	100	2	9.60	-44.14
ROOF CORNER	10	3	9.60	-79.81
ROOF CORNER	20	3	9.60	-71.85
ROOF CORNER	50	3	9.60	-61.33
ROOF CORNER	100	3	9.60	-53.40
WALL FIELD	10	4	22.45	-24.69
WALL FIELD	20	4	21.25	-23.49
WALL FIELD	50	4	19.68	-21.92
WALL FIELD	100	4	18.48	-20.73
WALL EDGE	10	5	22.45	-31.42
WALL EDGE	20	5	21.25	-29.03
WALL EDGE	50	5	19.68	-25.89
WALL EDGE	100	5	18.48	-23.49

HORRY-GEORGETOWN TECHNICAL COLLEGE  
 REBID REPAIR/REPLACE  
 ROOFING SYSTEMS  
 GRAND STRAND CAMPUS  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 MYRTLE BEACH,  
 SOUTH CAROLINA

**ADC ENGINEERING**  
 1226 YEAMANS HALL ROAD  
 HANAHAN, SC 29410  
 843-566-0161 ADCENGINEERING.COM

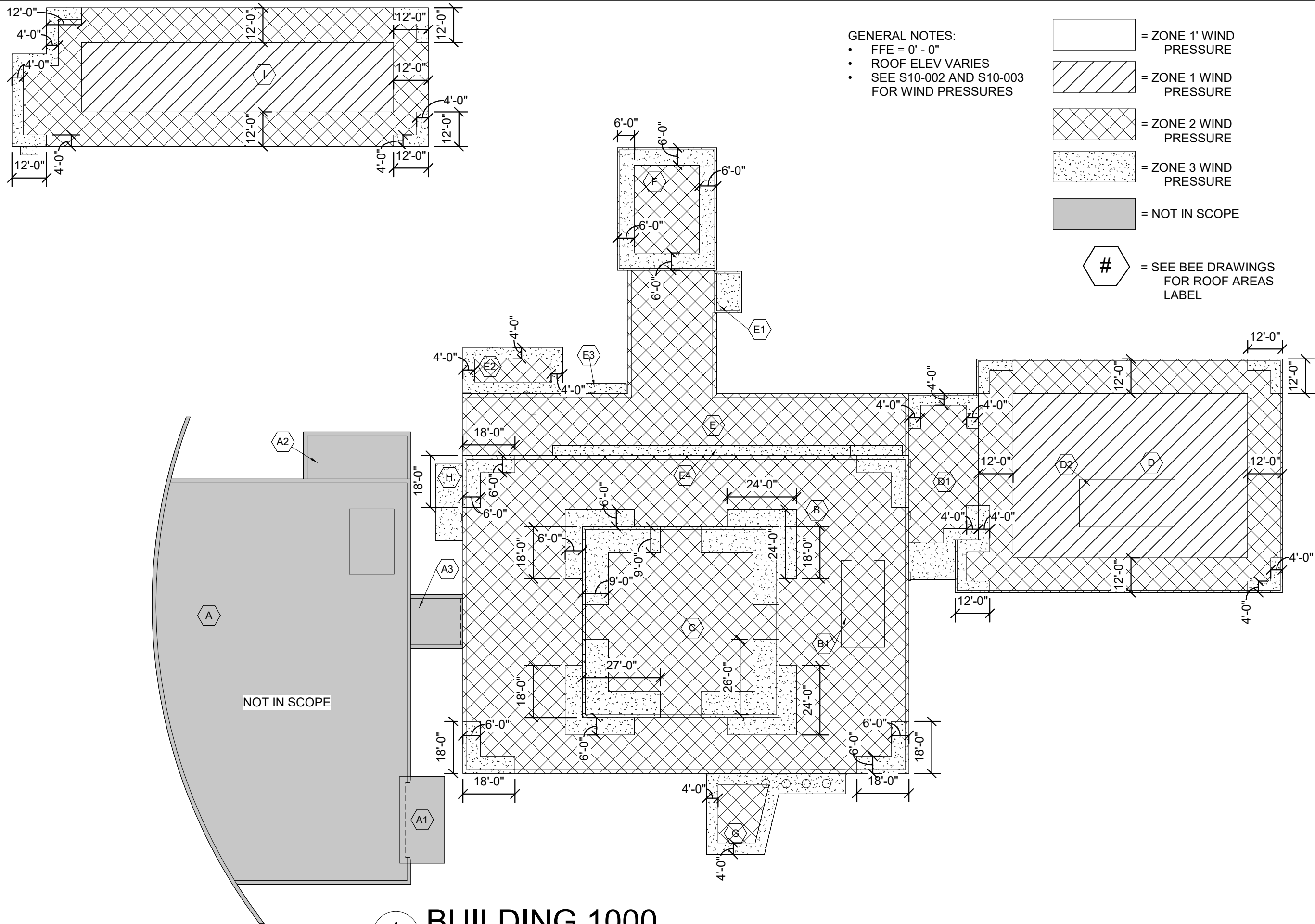
The **BUILDING ENVELOPE ENCLOSURE** Group  
 1226 YEAMANS HALL ROAD, STE C  
 HANAHAN, SC 29410

SOUTH CAROLINA  
 ADC ENGINEERING INC.  
 No. 00253  
 CERTIFICATE OF AUTHORIZATION  
 SOUTH CAROLINA  
 PROFESSIONAL ENGINEER  
 No. 28196  
 CHRISTOPHER J. GILGER

DATE: 05/21/2024  
 ADC PROJECT #: 23291  
 DESIGNED: CJG  
 CHECKED: CJG  
 DRAWN: SAC  
 REVISION:

**BUILDING 1000 - DESIGN CRITERIA**  
**S10-003**

\*\*\* THESE PROJECT DRAWINGS ARE THE PROPERTY OF ADC ENGINEERING, INC. DRAWINGS ARE PROVIDED FOR PROJECT RECORD FILING ONLY. ANY OTHER USE, REPRODUCTION OR COPYING IN WHOLE OR IN PART IS NOT AUTHORIZED. ALL RIGHTS RESERVED. \*\*\*



**GENERAL NOTES:**  
 • FFE = 0' - 0"  
 • ROOF ELEV VARIES  
 • SEE S10-002 AND S10-003 FOR WIND PRESSURES

- = ZONE 1' WIND PRESSURE
- = ZONE 1 WIND PRESSURE
- = ZONE 2 WIND PRESSURE
- = ZONE 3 WIND PRESSURE
- = NOT IN SCOPE

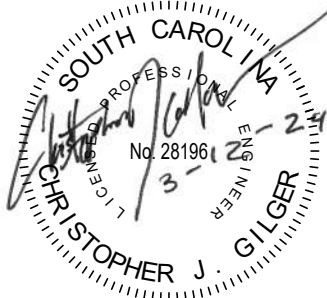
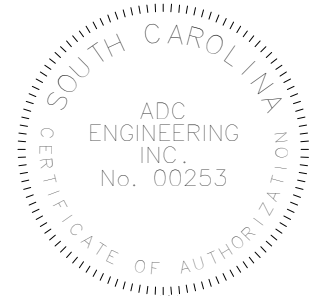
= SEE BEE DRAWINGS FOR ROOF AREAS LABEL

**1 BUILDING 1000**  
 1/32" = 1'-0"

HORRY-GEORGETOWN TECHNICAL COLLEGE  
**REBID REPAIR/REPLACE ROOFING SYSTEMS**  
 GRAND STRAND CAMPUS  
 OWNER PROJECT NUMBER: H59-6229-PD  
 BEE PROJECT NUMBER: 23010C  
 MYRTLE BEACH, SOUTH CAROLINA

**ADC ENGINEERING**  
 1226 YEAMANS HALL ROAD  
 HANAHAN, SC 29410  
 843-566-0161 ADCENGINEERING.COM

The **BUILDING ENVELOPE ENCLOSURE** Group  
 1226 YEAMANS HALL ROAD, STE C  
 HANAHAN, SC 29410



DATE:	05/21/2024
ADC PROJECT #:	23291
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

**BUILDING 1000 - WIND PRESSURE**  
**S10-101**