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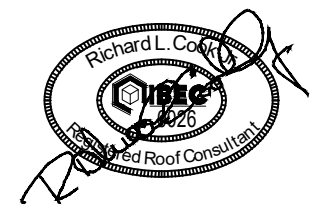


REPAIR/REPLACE ROOFING SYSTEMS GRAND STRAND CAMPUS

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
LB	MAXIMUM
MAX	MINIMUM
MIN	NOT IN CONTRACT
N.I.C.	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NRCA	ON CENTER
O.C.	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
OSHA	POLYVINYLCHLORIDE
PVC	ROOF DRAIN
RD	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.
SMACNA	SEALANT WATERPROOFING RESTORATION INSTITUTE
SWRI	TYPICAL
TYP	VENT THRU ROOF WITH
VTR	
W/	

LEGEND

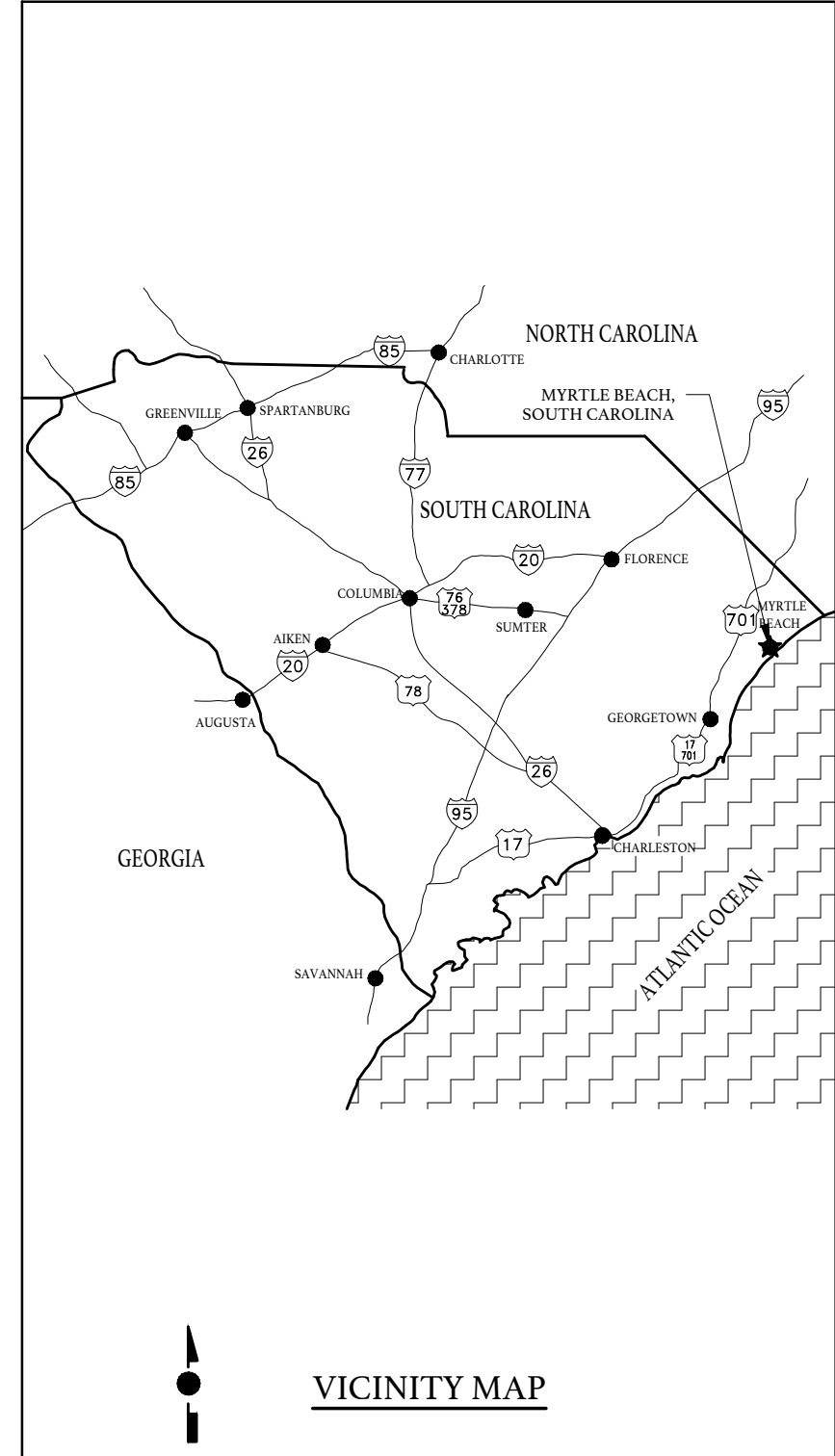
	SAMPLE TAKEN, R=ROOF
	F=FLASHING S=SPIKE
	ROOF AREA / LEVEL
	LOCATION OF SAMPLE CORE
	ROOF AREA SYMBOL
	SLOPE INDICATOR
	ROOF DRAIN
	ROOF DRAIN
	OVERFLOW DRAIN
	OVERFLOW SCUPPER
	THRU WALL SCUPPER
	GUTTER W/ DOWNSPOUT TO SPLASH BLOCK
	GUTTER W/ DOWNSPOUT
	VENT THRU ROOF
	PITCH PAN
	PITCH PAN W/ ELECTRICAL
	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

DETAILS/SECTION IDENTIFIER

	DETAIL/SECTION LABEL
	SHEET SHOWN ON

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Horry-Georgetown Technical College
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 MYRTLE BEACH, SOUTH CAROLINA

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

COVER SHEET

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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 300, AREAS F AND G (20 SQUARES) AND BUILDING 1000, AREAS B, Bi, C, D, Di, D2, E1-E4, F, G, H, AND I (360 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.
 - 1. 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.
 - 2. MODIFICATIONS AND REPAIRS TO LIGHTWEIGHT INSULATING CONCRETE/GYPSUM IN ACCORDANCE WITH SECTION 03 52 00, LIGHTWEIGHT INSULATING CONCRETE/GYPSUM DECK REPAIR.
 - 3. MINOR DECK REPAIRS IN ACCORDANCE WITH SECTION 03 60 01, CONCRETE GROUT REPAIR.
 - 4. MODIFICATIONS AND REPAIRS/REPLACEMENT TO METAL FORM DECK SYSTEMS IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR/REPLACEMENT.
 - 5. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
 - 6. ROOF REPAIRS IN ACCORDANCE WITH SECTION 07 50 00, GENERAL ROOF REPAIRS/MAINTENANCE.
 - 7. ROOF MEMBRANE, INSULATION, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 55 27, ROOF REPLACEMENT MODIFIED BITUMEN SHEET ROOFING SYSTEM.
 - 8. SHEET METAL, COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 60 00, SHEET METAL.
 - 9. OPTIONAL PRE-MANUFACTURED ACCESSORIES SPECIFIED OR AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SECTION 07 72 00, ROOF ACCESSORIES.
 - 10. ROOF DRAIN REPAIRS IN ACCORDANCE WITH SECTION 07 73 15, ROOF DRAIN REPAIRS/MODIFICATIONS.
 - 11. 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 AND REPLACEMENT OF THE DECK ASSEMBLY, AND REPLACEMENT WITH AN INTERMEDIATE RIB, 22 GAGE GALVANIZED STEEL METAL DECK MECHANICALLY FASTENED TO THE FRAMING/JOISTS IN LIEU OF SELECT REPAIRS AND REPLACEMENT USING THE UNIT PRICE QUANTITIES IN THE BASE BID FOR BUILDING 300, AREAS F AND G.
- 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

- 1. IN ACCORDANCE WITH SECTION 01 11 00, SUMMARY OF WORK, THE CONTRACT DOCUMENTS INCLUDE WITHIN THE BASE BID SPECIFIC QUANTITIES.
- 2. THE SPECIFIC QUANTITIES ARE LISTED WITHIN THE INDIVIDUAL SPECIFICATION SECTIONS OF THIS PROJECT AND ARE INCLUDED ON THE BID FORM AS NOTED.

A SINGLE UNIT PRICE WILL BE PROVIDED FOR EACH ITEM, TO BE USED AS AN 'ADD' OR 'DEDUCT', BASED ON ACTUAL FIELD CONDITIONS. ANY QUANTITY ABOVE OR BELOW THESE SPECIFIED AMOUNTS WILL RESULT IN AN 'ADD' OR 'DEDUCT' TO THE CONTRACT SUM BASED ON THE REQUIRED UNIT PRICES.
- 3. IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCE, THE FOLLOWING DOCUMENTATION IS REQUIRED.
 - A. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL REPAIR UNIT PRICED QUANTITIES USED BASED ON CONTRACT REQUIREMENTS.
 - B. CONTRACTOR SHALL NOTIFY OWNER IN WRITING WHEN 80% OF QUANTITY IS USED FOR EACH UNIT PRICE ITEM.
 - C. OWNER IS NOT RESPONSIBLE FOR QUANTITIES WHICH EXCEED 80% UNLESS OWNER IS NOTIFIED IN WRITING PRIOR TO EXCEEDING THESE QUANTITIES, AND CONTRACTOR RECEIVES APPROVAL TO PROCEED.
 - D. PROVIDE PHOTOGRAPH OR VIDEOTAPE DOCUMENTATION OF REPAIRS AND ACTUAL QUANTITIES USED.
 - E. LOCATE QUANTITIES AND SHOW THEIR LOCATIONS ON DRAWINGS.
 - F. PROVIDE ACTUAL USED QUANTITIES ON EACH APPLICATION FOR PAYMENT REQUEST.
- 4. PROVIDE SUMMARY OF UNIT QUANTITIES 'REQUIRED' VERSE 'USED' AND ABOVE DOCUMENTATION WHEN REQUESTED, AND AS PART OF PROJECT CLOSE-OUT REQUIREMENTS OF SECTION 01 77 00, CONTRACT CLOSE-OUT.

GENERAL M/E/P AND COORDINATION NOTES

- 1. DISCONNECT AND REMOVE ALL ROOFTOP MECHANICAL AND ELECTRICAL EQUIPMENT AS NECESSARY TO COMPLETE THE WORK AND REINSTALL UPON COMPLETION OF WORK. PROVIDE FOR EXTENSION AND MODIFICATION OF SERVICE, UTILITIES, INTERIOR COMPONENTS AND ALL CONNECTIONS AS NECESSARY TO ACCOMMODATE NEW HEIGHTS AND LOCATIONS.
- 2. ANY CABLES, WIRES, SATELLITE OR MICROWAVE DISHES, ANTENNAS AND ROOFTOP MECHANICAL, ELECTRICAL OR ELECTRONIC COMPONENTS SHALL BE TEMPORARILY DISCONNECTED AND RECONNECTED BY QUALIFIED CRAFTSMEN. THIS INCLUDES ROOF AREAS, FLASHINGS AND ADJACENT WALL AREAS.
- 3. REMOVE ALL WOOD BLOCKING FOR PIPE SUPPORTS, CONDUITS, EQUIPMENT, AND JUNCTION BOXES, AND REPLACE PER DETAILS.
- 4. EXTEND/RAISE ALL PENETRATIONS, CURBS, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS TO A MINIMUM 8" ABOVE THE FINISHED ROOF SURFACE.
- 5. A MINIMUM DISTANCE OF 12 INCHES SHALL EXIST BETWEEN ANY AND ALL PENETRATIONS AND/OR TERMINATIONS.
- 6. USE ROUND SHAPES TO CONSTRUCT EQUIPMENT SUPPORTS AND DO NOT USE PITCH PANS.
- 7. INSTALL NEW GRAY PVC CONDENSATE LINES WITH "P-TRAPS" ROUTED INTO DRAINS/GUTTERS FROM HVAC UNITS.
- 8. 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

- 1. SUBSTRATE SHALL BE INSPECTED AND REPAIRED AS SPECIFIED PRIOR TO SYSTEM INSTALLATION.
- 2. PROVIDE ALL NEW WOOD PRODUCTS AS REQUIRED TO PROVIDE FOR INDICATED DETAILS AND TO MEET SPECIFIED REQUIREMENTS. CONTRACTOR MAY REUSE EXISTING CARPENTRY WHICH ARE SOUND AND COMPATIBLE WITH THE NEW WORK SPECIFIED. EXISTING DAMAGED OR DETERIORATED CARPENTRY NOT OTHERWISE INDICATED FOR REPLACEMENT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCE, AND SECTION 06 10 00, ROUGH CARPENTRY.
- 3. CARPENTRY THICKNESSES AS REQUIRED TO MATCH BUILDING CONDITIONS. STACKED CONFIGURATIONS AND VARYING THICKNESSES MAY BE REQUIRED TO MATCH INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
- 4. ROOFING AND SHEET METAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE CONTRACT REQUIREMENTS. ANY CLARIFICATIONS OR ADDITIONAL INFORMATION SHALL BE IN ACCORDANCE WITH PUBLISHED GUIDELINES OF NRCA ROOFING AND WATERPROOFING MANUAL (5th EDITION) AND SMACNA ARCHITECTURAL SHEET METAL MANUAL (7th EDITION).
- 5. ALL FLASHING TERMINATIONS SHALL HAVE CONFORMING WATERTIGHT SHEET METAL CLOSURES, AND WATERPROOF UNDERLAYMENT ALL SHEETMETAL BELOW WITH SEALED LAPS.
- 6. SPECIFIC AND TYPICAL DETAILS ARE PROVIDED WITH GENERIC TYPE DECK SHOWN. TYPICAL DETAILS APPLY TO ALL INSTANCES WHERE SIMILAR CONDITION OCCURS.
- 7. ALL WORK SHALL BE CONDUCTED IN A SUBSTANTIAL WORKMANLIKE MANNER IN ACCORDANCE WITH SPECIFIED REQUIREMENTS.
- 8. INSTALL TAPERED CRICKETS TO PROVIDE POSITIVE DRAINAGE ON THE UPSLOPE SIDE OF ALL NON-ROUND PENETRATIONS GREATER THAN 24" WIDE.
- 9. WALKPADS ARE REQUIRED AT ALL ROOF ACCESS POINTS AND AROUND ALL MECHANICAL EQUIPMENT. INSTALL EACH WALKPAD 12" FROM THE NEXT AND 12" AWAY FROM WALLS AND CURBS.

IBC/CODE ANALYSIS

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

GENERAL NOTES

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

DEMOLITION NOTES

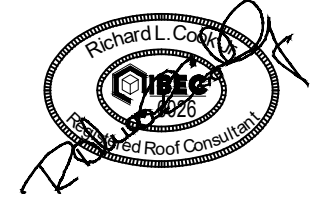
- 1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02 04 00, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
- 2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY DOWN TO THE EXISTING DECK IN INDICATED AREAS OF ROOF REPLACEMENT. AVOID DAMAGING THE ROOF DECK. NO MORE ROOFING SHALL BE REMOVED THAN CAN BE REPLACED BY THE COMPLETE NEW ROOF SYSTEM THE SAME DAY.
- 3. BUILDING ENVELOPE DEMOLITION IS REQUIRED TO THE VARIOUS COMPONENTS AND SYSTEMS TO COMPLETE THE REQUIRED REPAIRS, MODIFICATIONS AND REPLACEMENTS OF THIS PROJECT.
- 4. REMOVE IDENTIFIED ABANDONED PENETRATIONS SHOWN ON DRAWINGS.
- 5. EXISTING NAILERS AND BLOCKING SHALL BE ADDRESSED PER CONSTRUCTION NOTES.
- 6. 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.
- 7. 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.
- 8. ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 05.
- 10. 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

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



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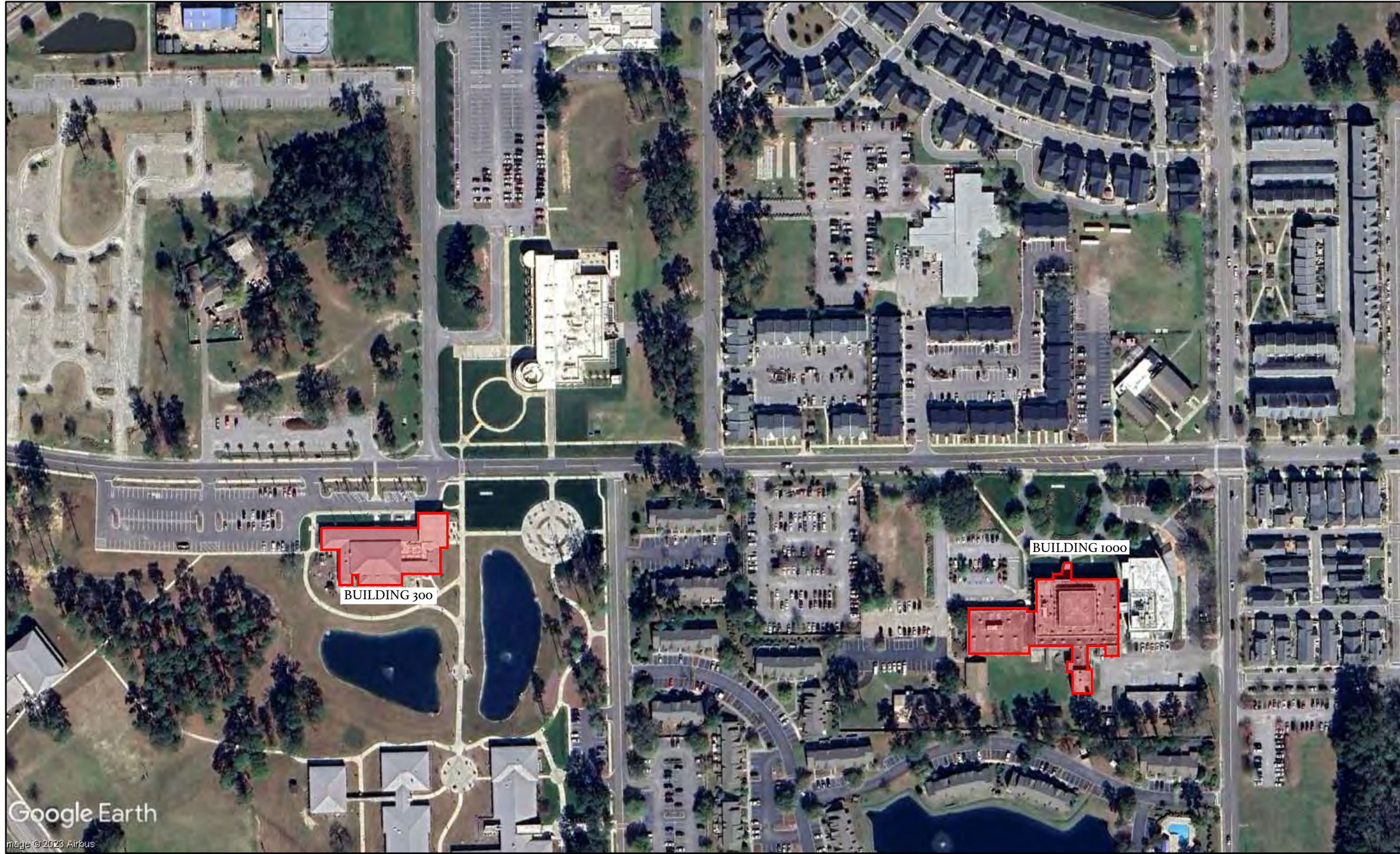
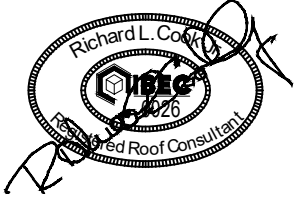
DATE: 03/12/2024
BEE PROJECT #: 23010C
DESIGNED: RLC
CHECKED: JCG
DRAWN: KAM
REVISION:

GENERAL NOTES

RIOI

LEGEND

TOTAL ROOF REPLACEMENT
BUILDINGS 300 & 1000



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

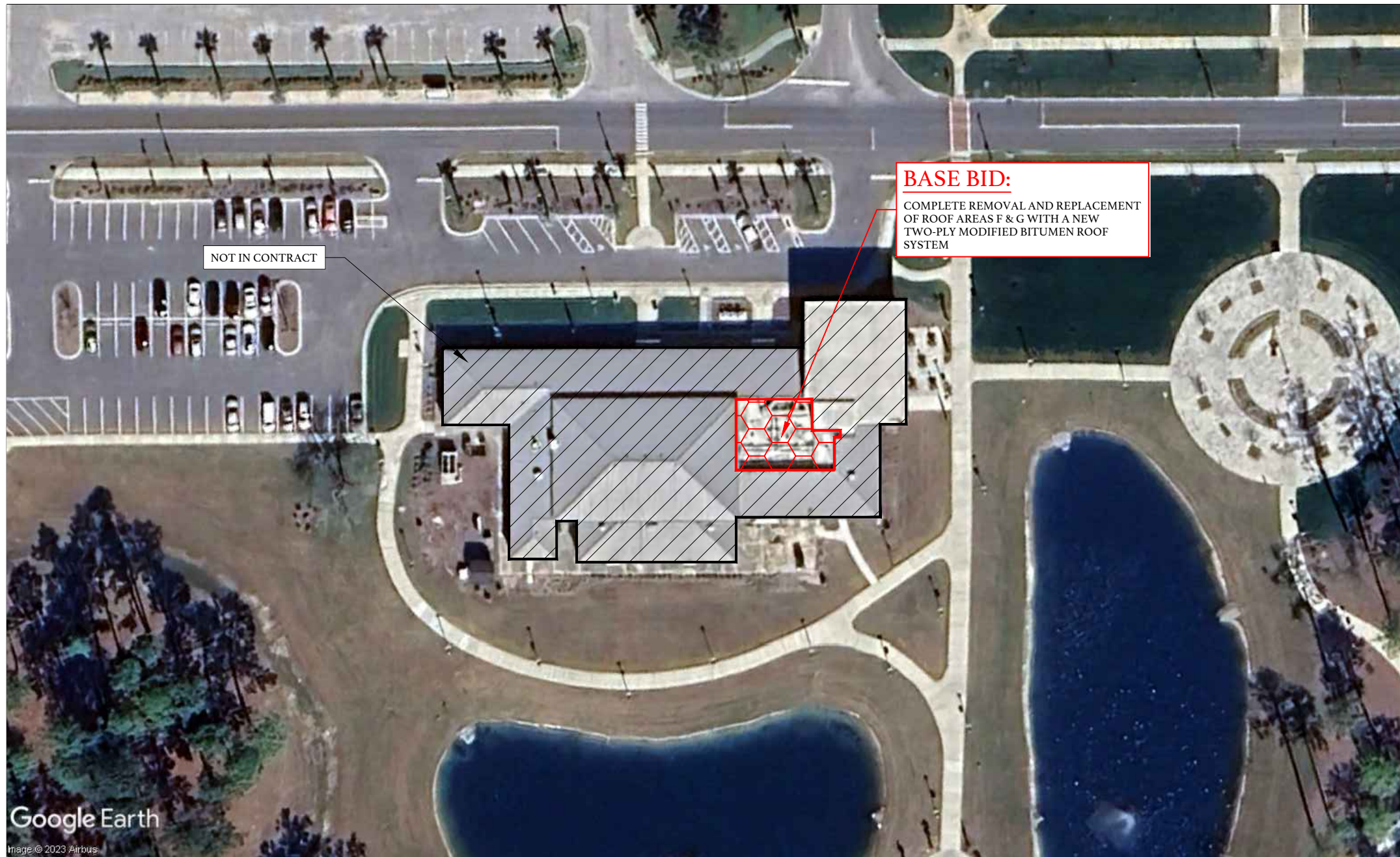
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GRAND STRAND CAMPUS
AERIAL PLAN

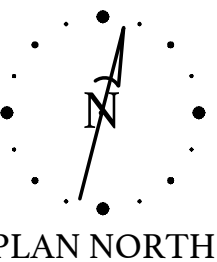
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ALTERNATE #1:

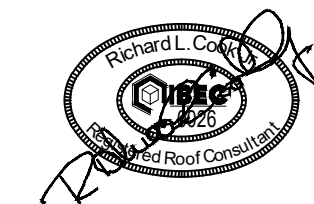
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Google Earth
Image © 2023 Airbus



**BUILDING 300
AERIAL PLAN**



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

OWNER PROJECT NUMBER: H59-0229-PD
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3659 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

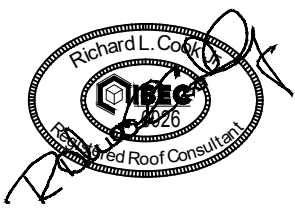
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**BUILDING 300
AERIAL PLAN**

R201

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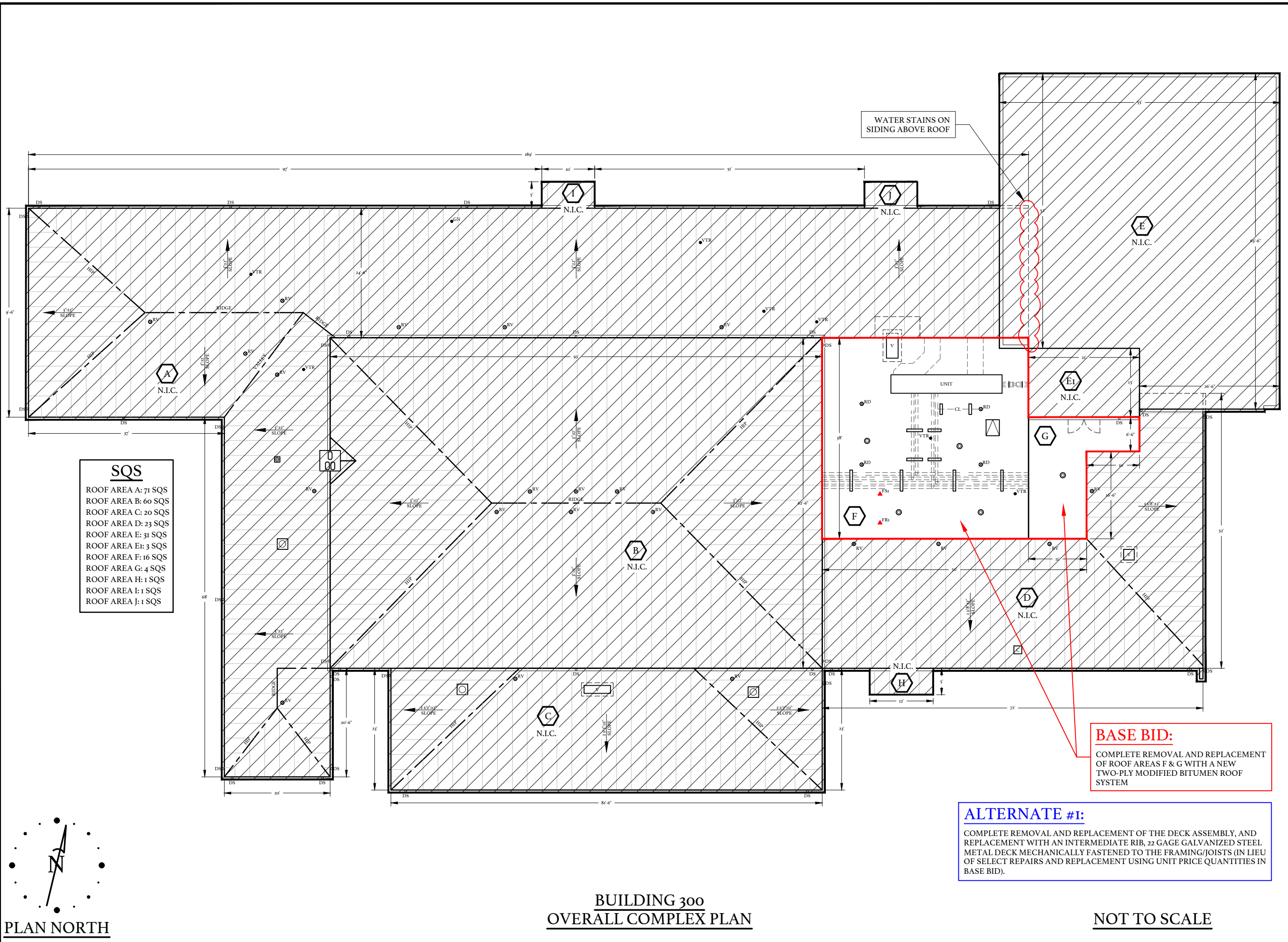


HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 300

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BUILDING 300
OVERALL
COMPLEX PLAN



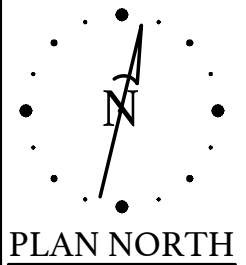
SQS

ROOF AREA A:	71 SQS
ROOF AREA B:	60 SQS
ROOF AREA C:	20 SQS
ROOF AREA D:	23 SQS
ROOF AREA E:	31 SQS
ROOF AREA E1:	3 SQS
ROOF AREA F:	16 SQS
ROOF AREA G:	4 SQS
ROOF AREA H:	1 SQS
ROOF AREA I:	1 SQS
ROOF AREA J:	1 SQS

BASE BID:
COMPLETE REMOVAL AND REPLACEMENT OF ROOF AREAS F & G WITH A NEW TWO-PLY MODIFIED BITUMEN ROOF SYSTEM

ALTERNATE #1:
COMPLETE REMOVAL AND REPLACEMENT OF THE DECK ASSEMBLY, AND REPLACEMENT WITH AN INTERMEDIATE RIB, 22 GAGE GALVANIZED STEEL METAL DECK MECHANICALLY FASTENED TO THE FRAMING/JOISTS (IN LIEU OF SELECT REPAIRS AND REPLACEMENT USING UNIT PRICE QUANTITIES IN BASE BID).

WATER STAINS ON SIDING ABOVE ROOF



BUILDING 300
OVERALL COMPLEX PLAN

NOT TO SCALE

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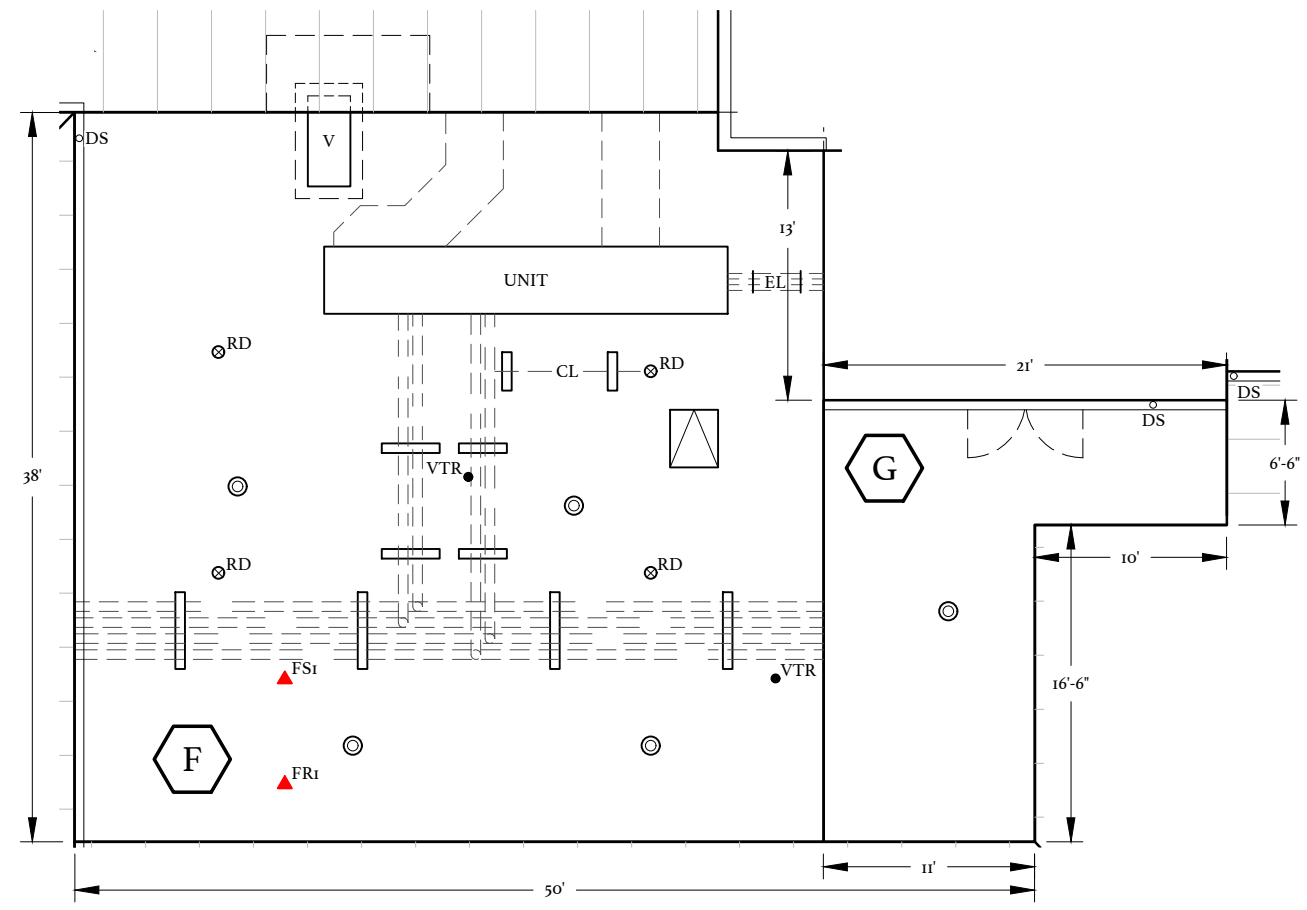
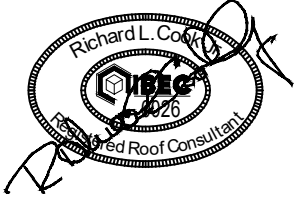
CORE SAMPLE SUMMARY

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

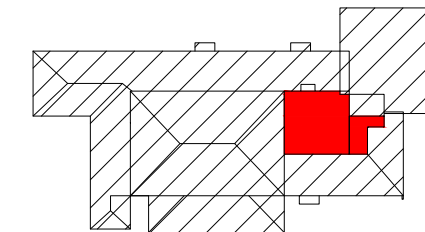
ITEM	DESCRIPTION
FR1-	SINGLE PLY ROOF MEMBRANE (WITH ELASTOMERIC COATING IN AREAS) POLYISOCYANURATE (TAPERED) GRAVEL SURFACED BUILT UP ROOF POUR GYPSUM DECK OVER GYPSUM FORMBOARD ON BULB TEES TOTAL THICKNESS = 5"
FS1-	TOTAL THICKNESS = 3 1/2"
AREA G -	SAME ASSEMBLY AS AREA F



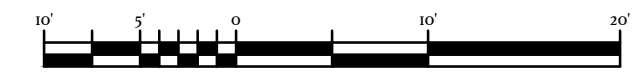
1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



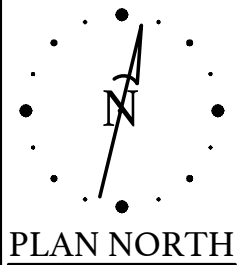
**EXISTING ROOF PLAN
AREAS F & G
BUILDING 300**



KEY PLAN



GRAPHIC SCALE



HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 300
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3639 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

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

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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



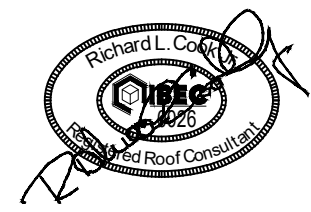
PHOTO # 11
ROOF AREA G



PHOTO # 12
ROOF AREA G

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

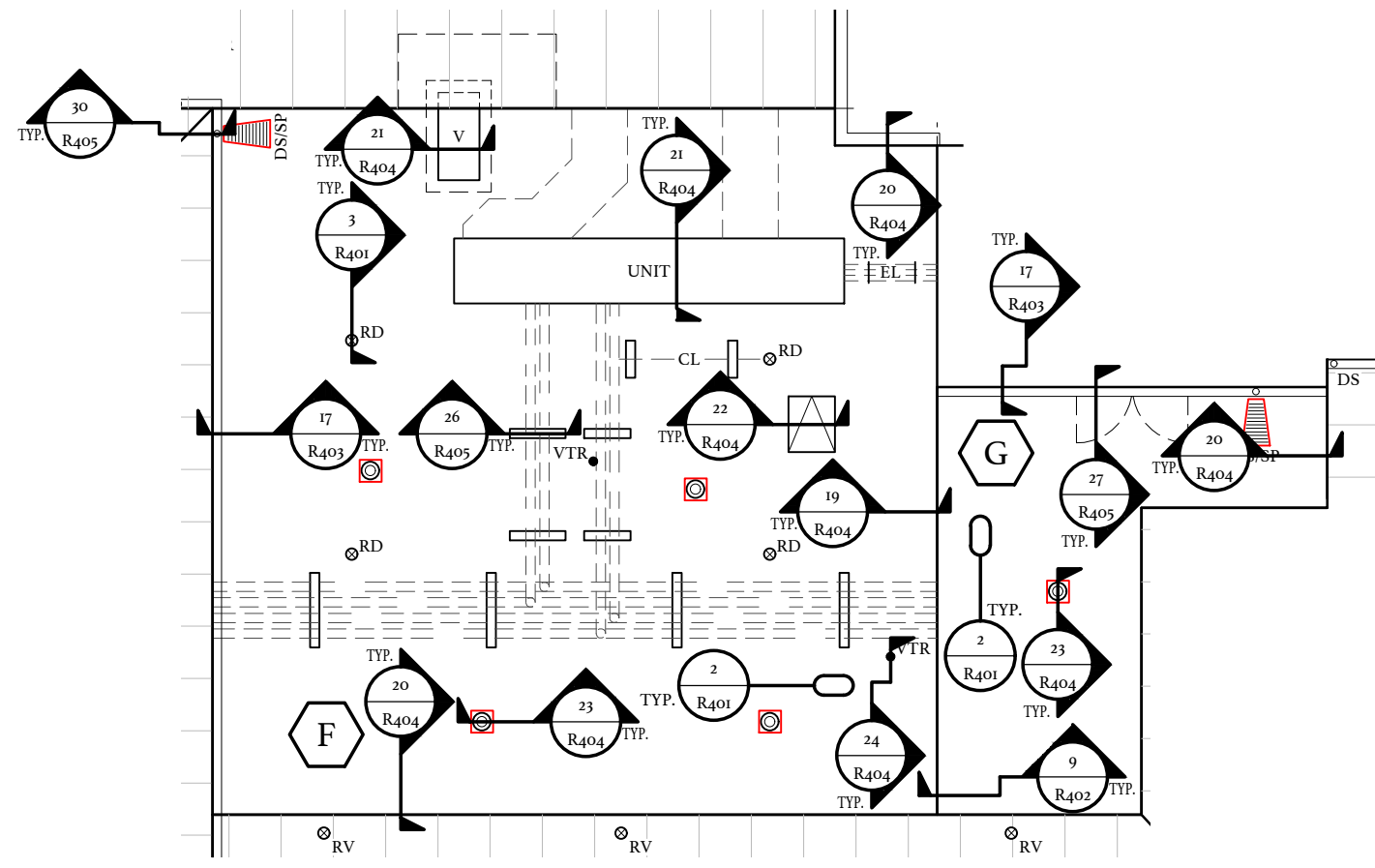
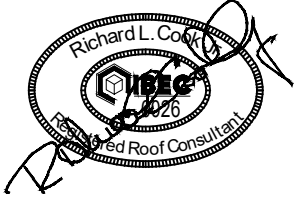


HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 300
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3659 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

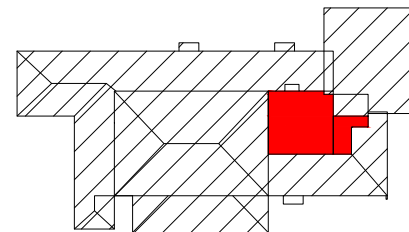
ROOF AREAS
F, & G
PHOTOGRAPHS
BUILDING 300

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- 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.

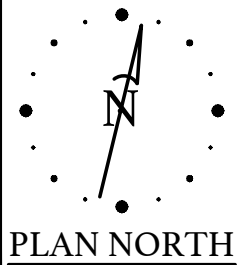
**NEW ROOF PLAN
AREAS F & G
BUILDING 300**



KEY PLAN



GRAPHIC SCALE



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

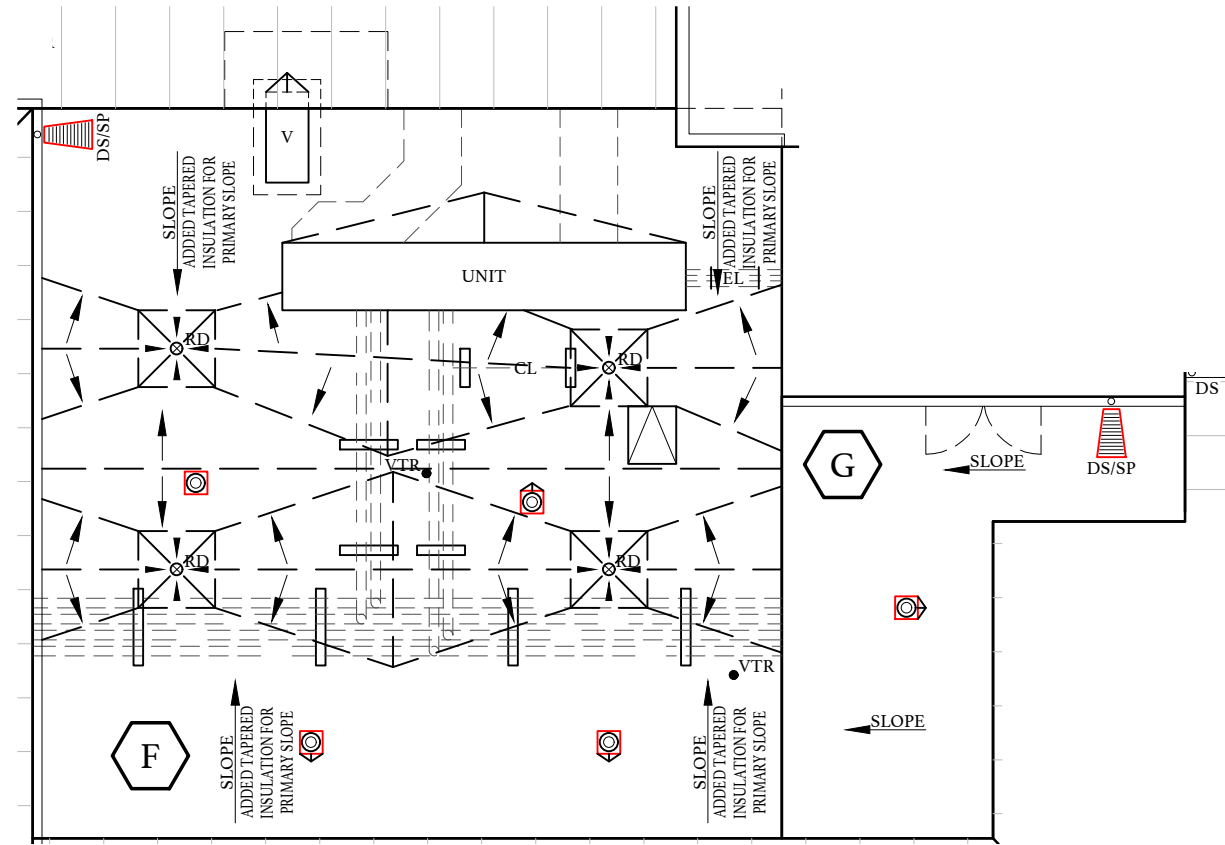
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3659 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

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

R205

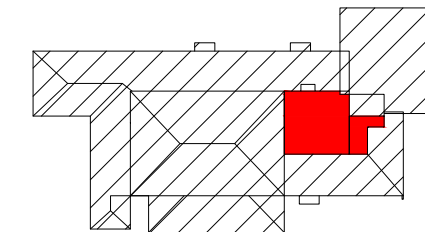
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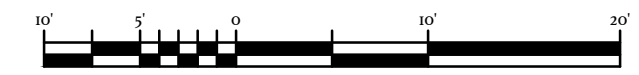
**TAPER ROOF PLAN
AREAS F & G
BUILDING 300**

TAPERED INSULATION NOTES

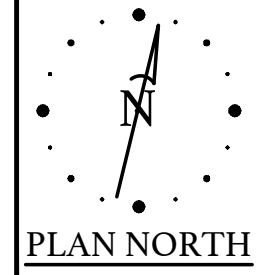
1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHERWISE WHERE 2X PRIMARY SLOPE SHALL BE PROVIDED.
 - A. ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4 INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED 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.



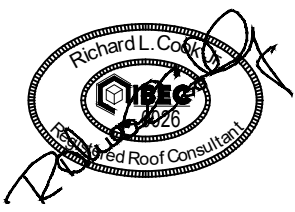
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



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

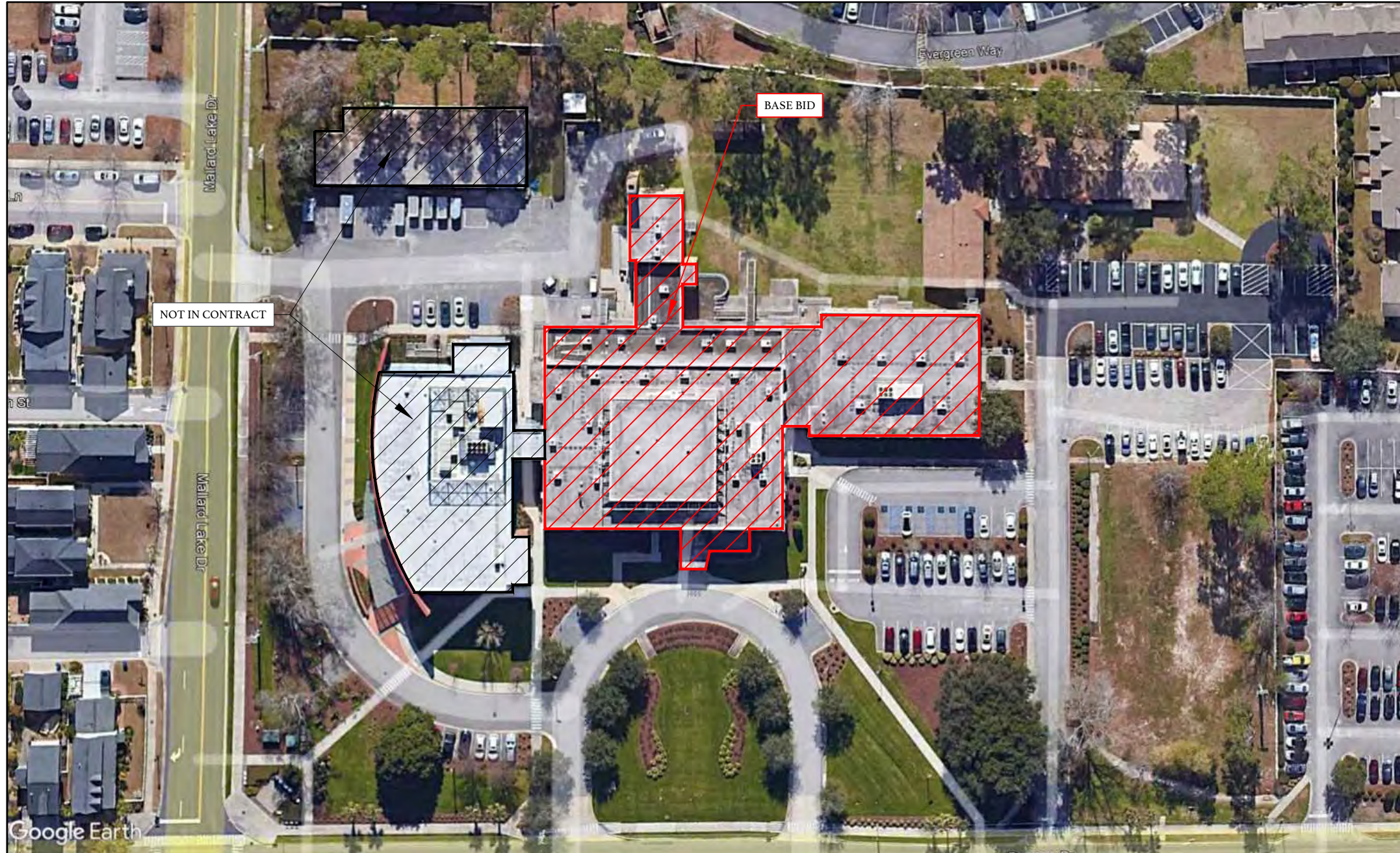
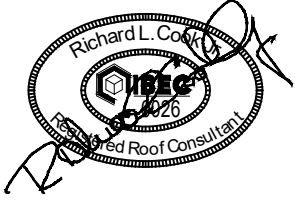
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3639 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

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

R206

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HORRY-GEORGETOWN TECHNICAL COLLEGE
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

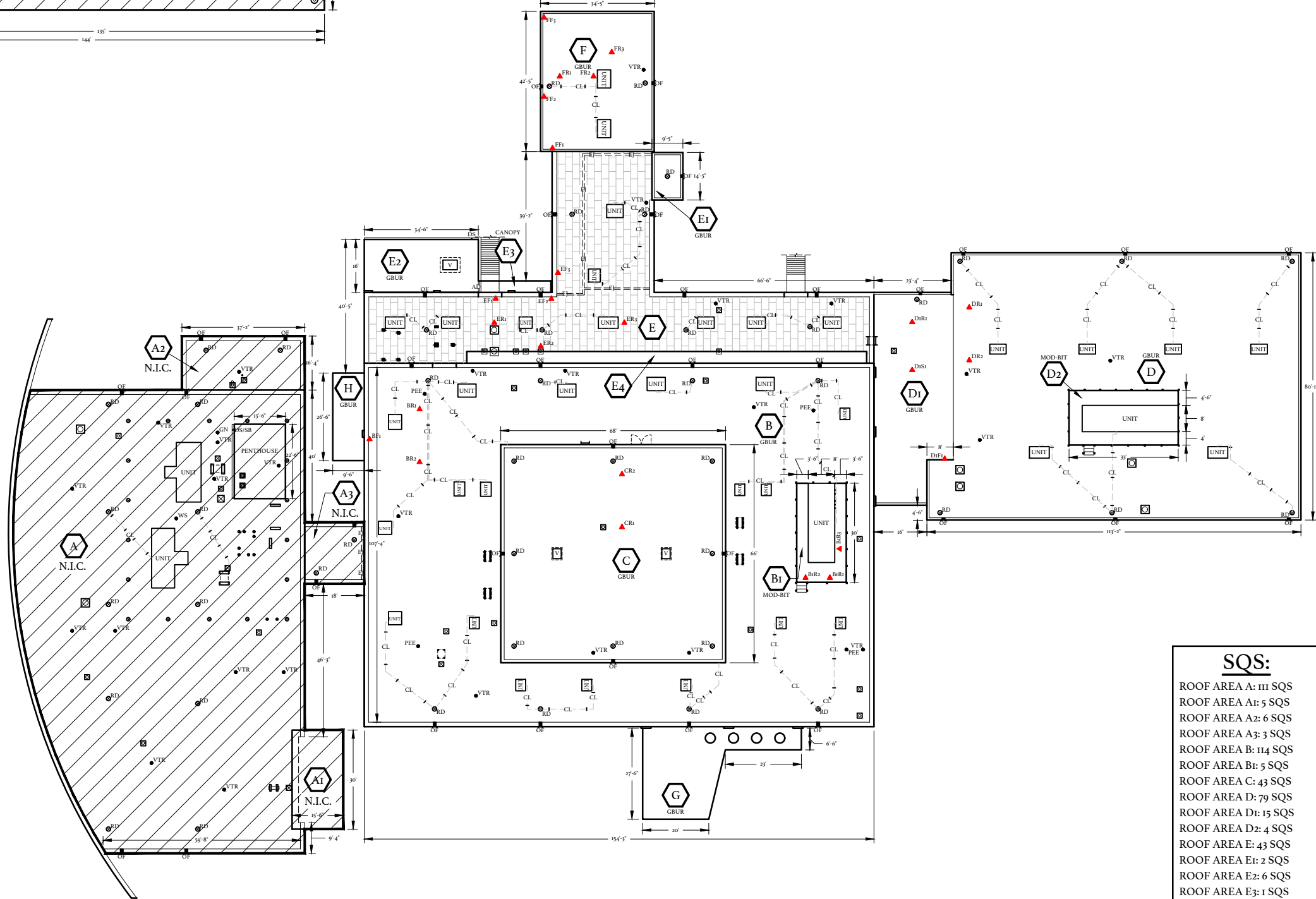
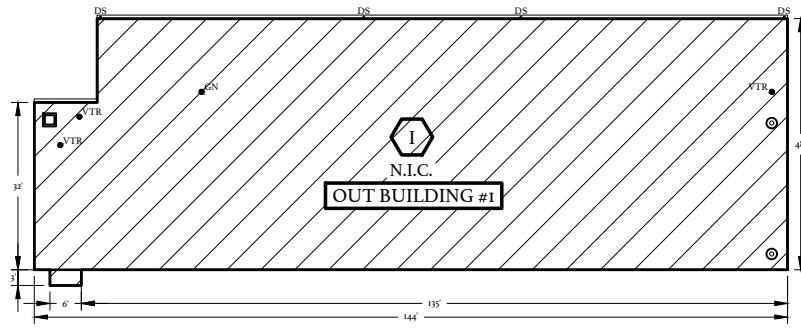
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 1000
AERIAL PLAN



BUILDING 1000
AERIAL PLAN

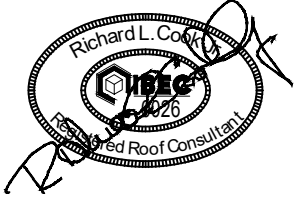
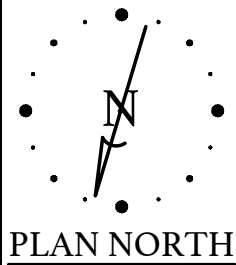
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**BUILDING 1000
OVERALL COMPLEX PLAN**

SQS:	
ROOF AREA A:	111 SQS
ROOF AREA A1:	5 SQS
ROOF AREA A2:	6 SQS
ROOF AREA A3:	3 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
ROOF AREA G:	8 SQS
ROOF AREA H:	3 SQS
OUT BUILDING #1:	68 SQS

NOT TO SCALE



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

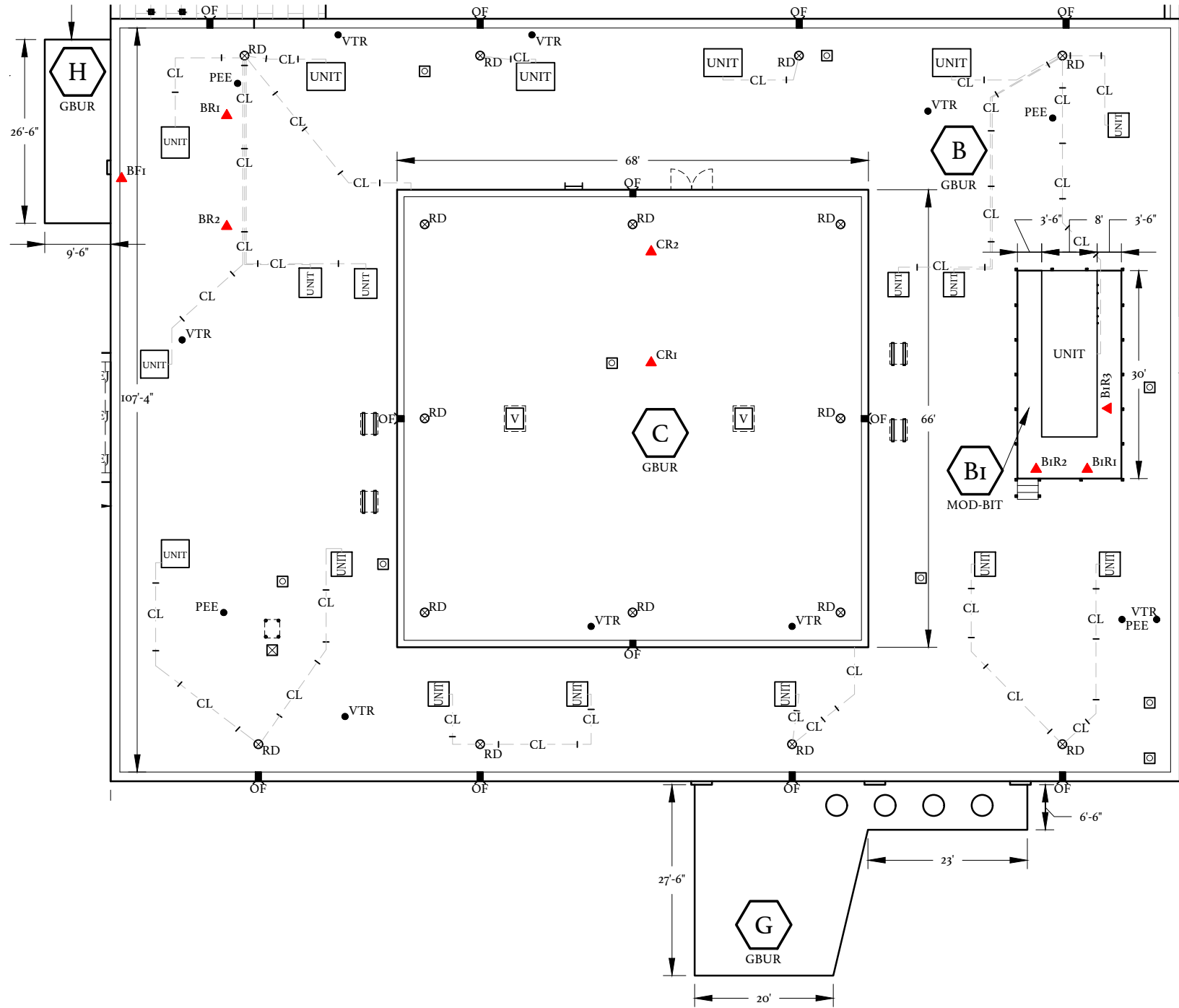
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

**BUILDING 1000
OVERALL
COMPLEX PLAN**

R302

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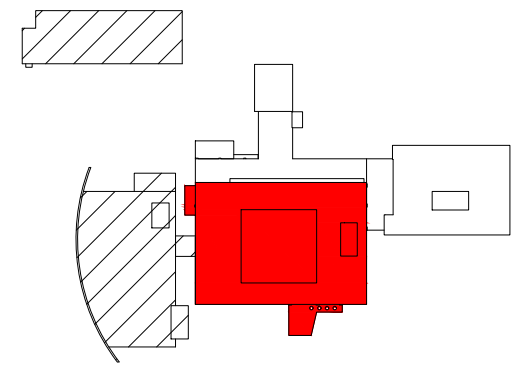


EXISTING ROOF PLAN
AREAS B, Bi, C, G, & H
BUILDING 1000

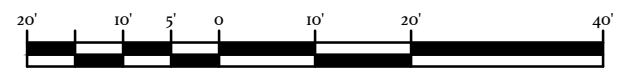
CORE SAMPLE SUMMARY

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- 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"



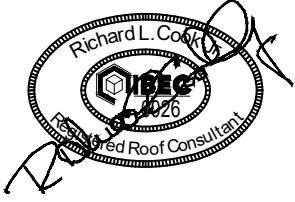
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
 HANAHAN, SC 29410



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:	

EXISTING ROOF PLAN AREAS
B, Bi, C, G, & H
BUILDING 1000

R303

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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



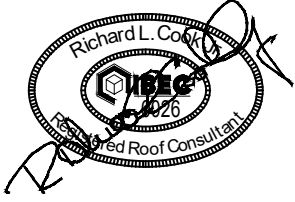
PHOTO # 11
ROOF AREA B1



PHOTO # 12
ROOF AREA B1

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:	

ROOF AREAS
B & B1
PHOTOGRAPHS
BUILDING 1000

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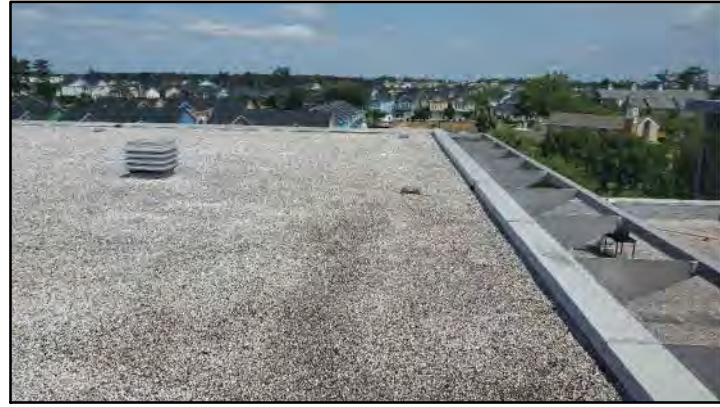


PHOTO # 13
ROOF AREA C



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 G



PHOTO # 22
ROOF AREA G



PHOTO # 23
ROOF AREA H

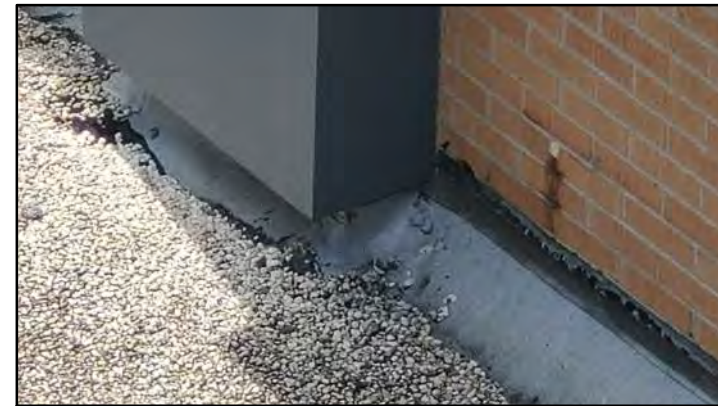
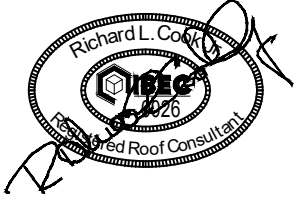


PHOTO # 24
ROOF AREA H

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



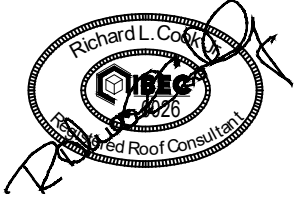
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000

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:	

ROOF AREAS
C, G, & H
PHOTOGRAPHS
BUILDING 1000

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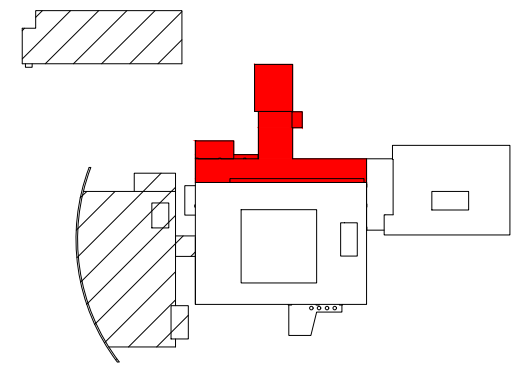
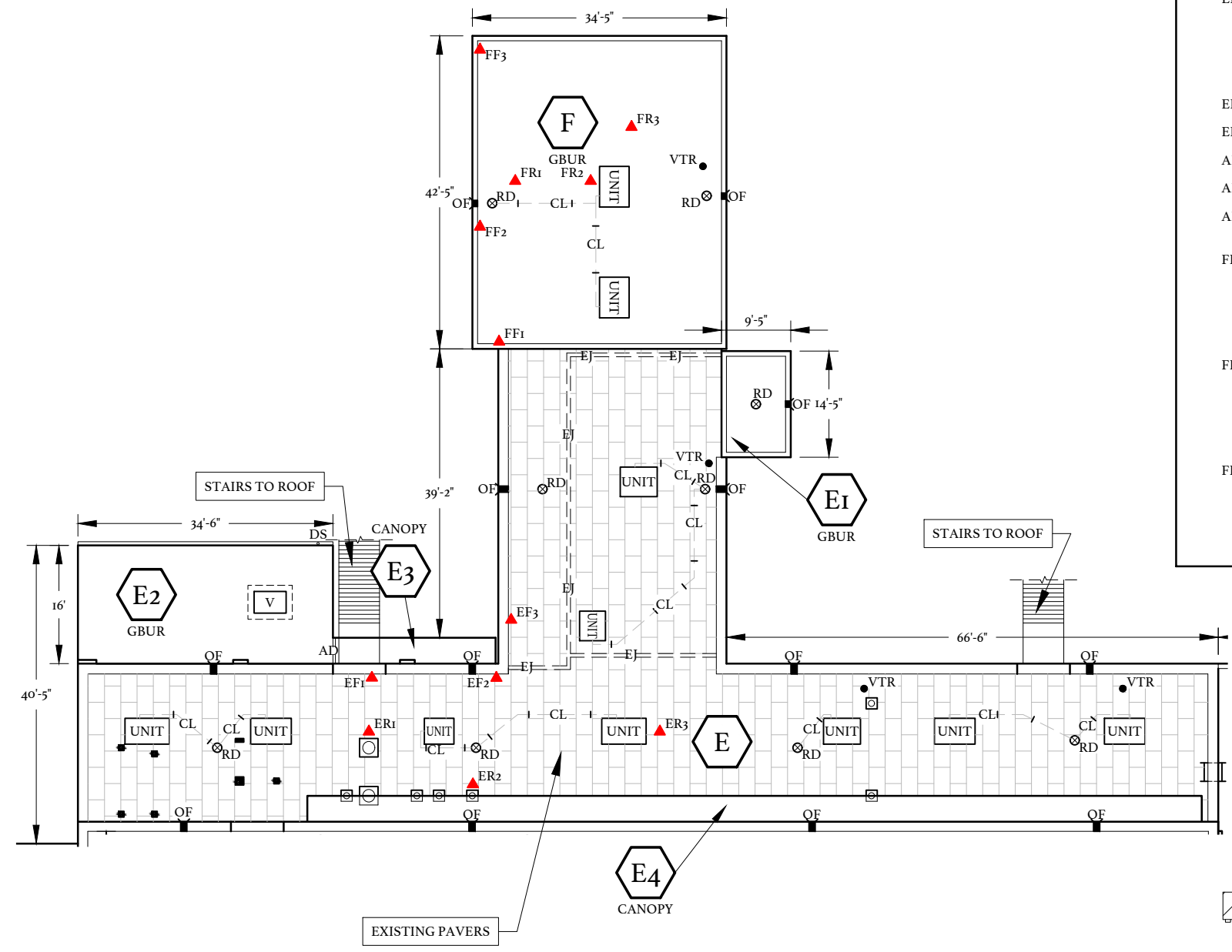
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000

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

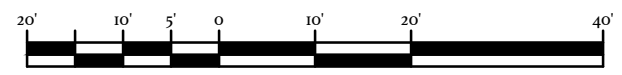
CORE SAMPLE SUMMARY

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- 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"

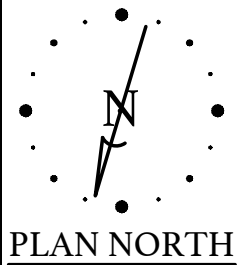


KEY PLAN



GRAPHIC SCALE

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



PLAN NORTH

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

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

R306

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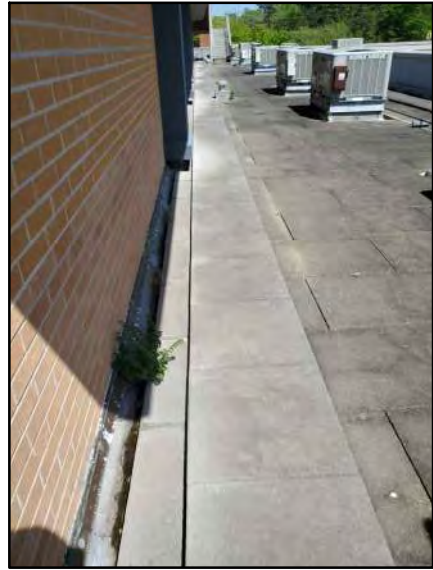


PHOTO # 1
ROOF AREA E

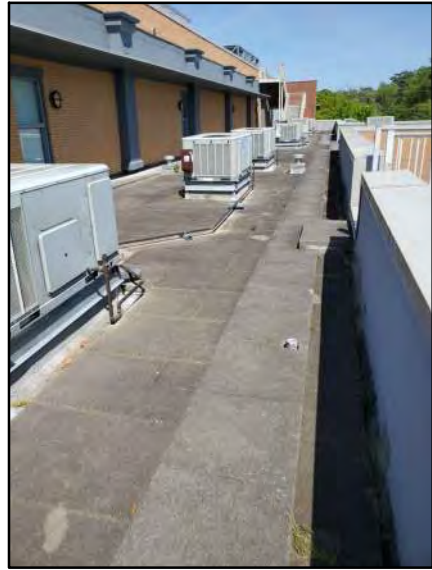


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ROOF AREA E

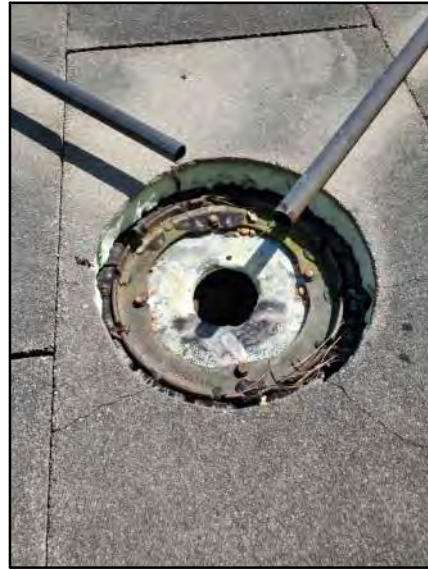


PHOTO # 3
ROOF AREA E



PHOTO # 4
ROOF AREA E



PHOTO # 5
ROOF AREA E



PHOTO # 6
ROOF AREA E



PHOTO # 7
ROOF AREA E

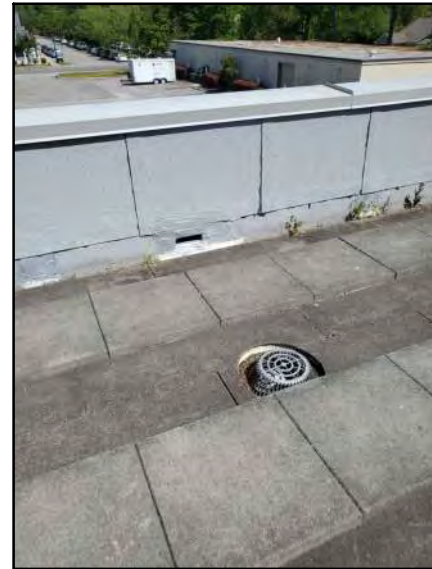


PHOTO # 8
ROOF AREA E



PHOTO # 9
ROOF AREA E1



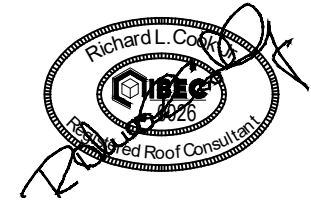
PHOTO # 10
ROOF AREA E1



PHOTO # 11
ROOF AREA E2



PHOTO # 12
ROOF AREA E2



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:

ROOF AREAS
E, E1, & E2
PHOTOGRAPHS
BUILDING 1000

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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

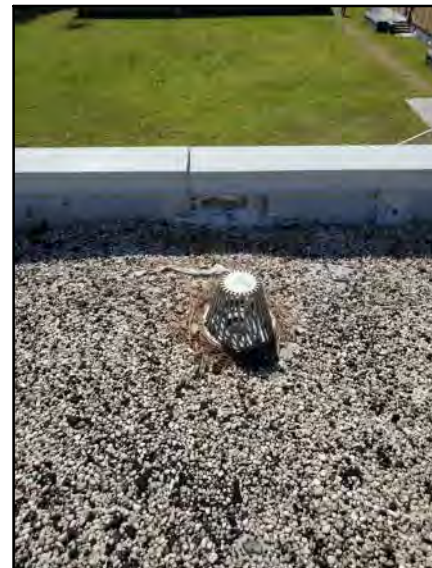
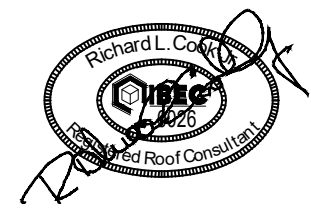


PHOTO # 24
ROOF AREA F



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:	

ROOF AREAS
E3, E4, & F
PHOTOGRAPHS
BUILDING 1000

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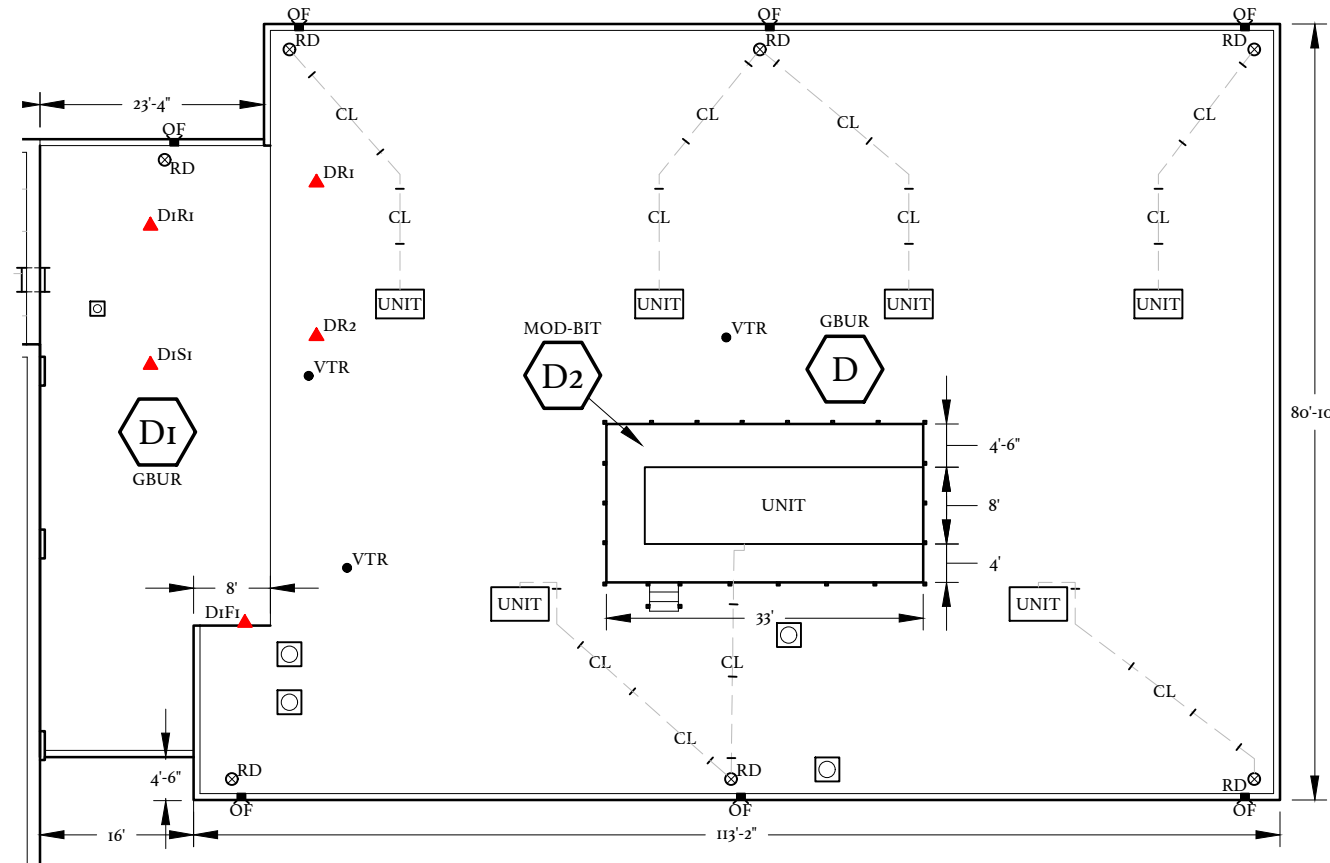
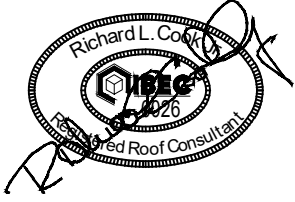
CORE SAMPLE SUMMARY

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

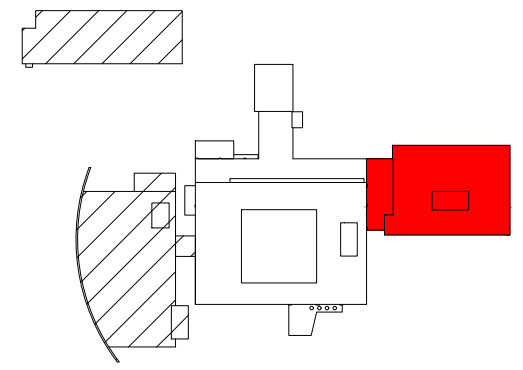
ITEM	DESCRIPTION
DR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 1/2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 4"
DR2-	SAME AS DR1
DI R1-	SAME AS DR1
DI S1-	TOTAL THICKNESS = 4"



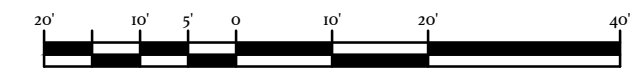
1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



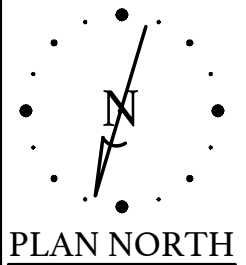
EXISTING ROOF PLAN
AREAS D, DI, & D2
BUILDING 1000



KEY PLAN



GRAPHIC SCALE



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:	

EXISTING ROOF
PLAN AREAS
D, DI, & D2
BUILDING 1000

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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



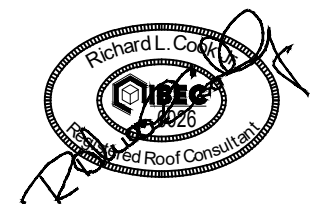
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ROOF AREA D2



PHOTO # 11
ROOF AREA D2



PHOTO # 12
ROOF AREA D2

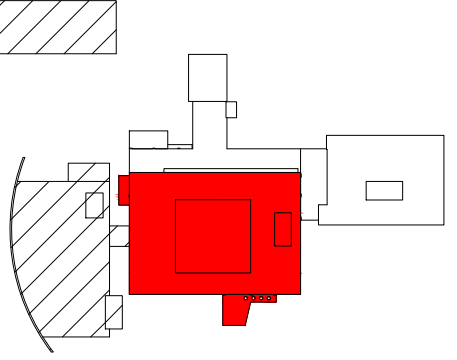
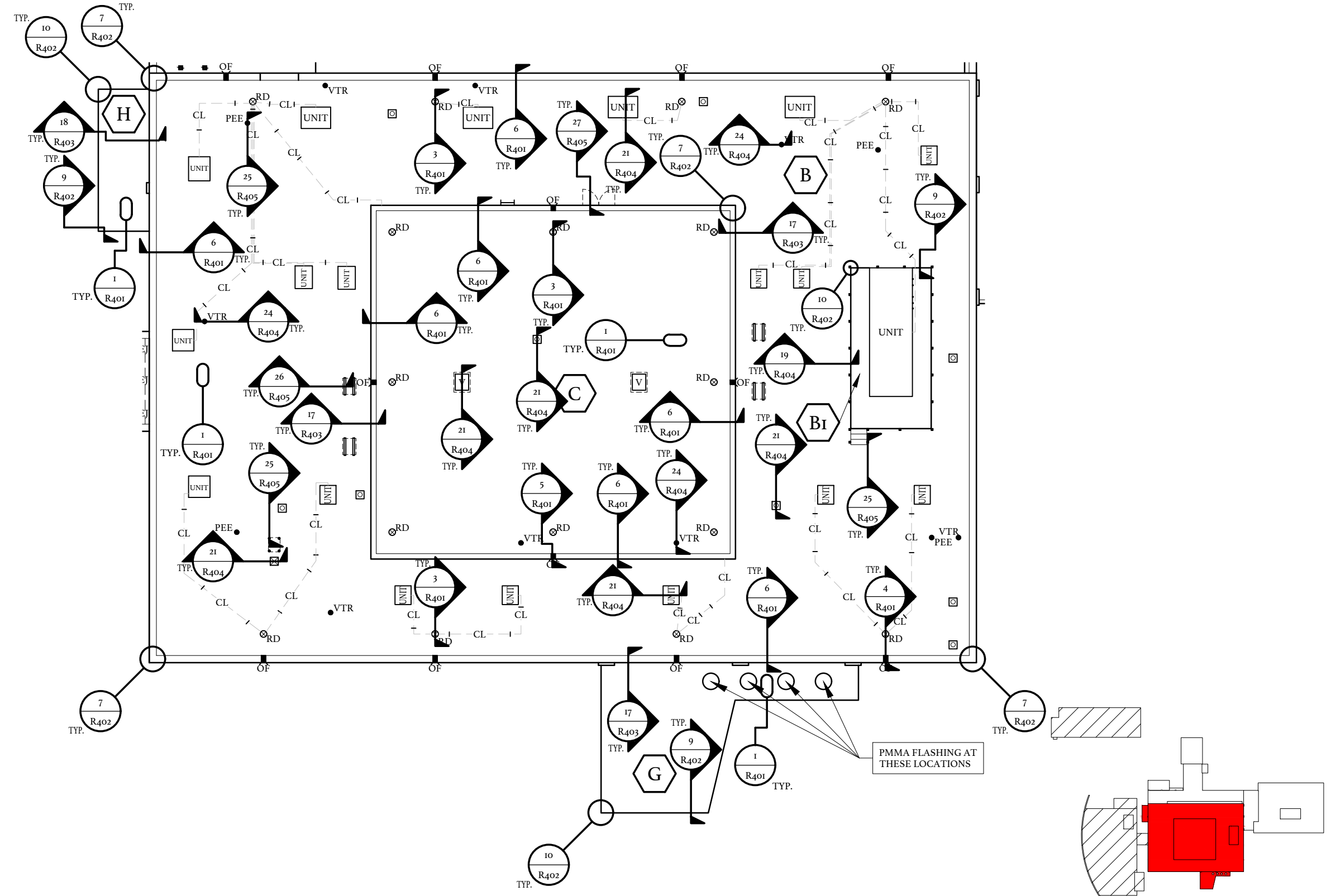
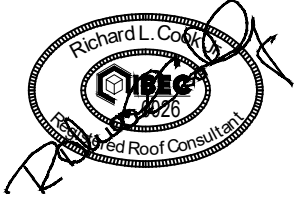


HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

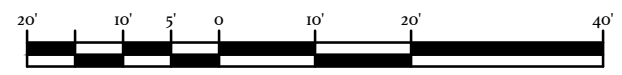
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS
D, D1, & D2
PHOTOGRAPHS
BUILDING 1000

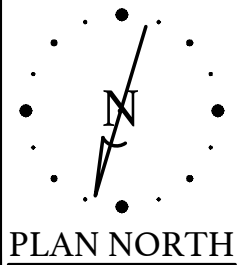
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KEY PLAN



GRAPHIC SCALE



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

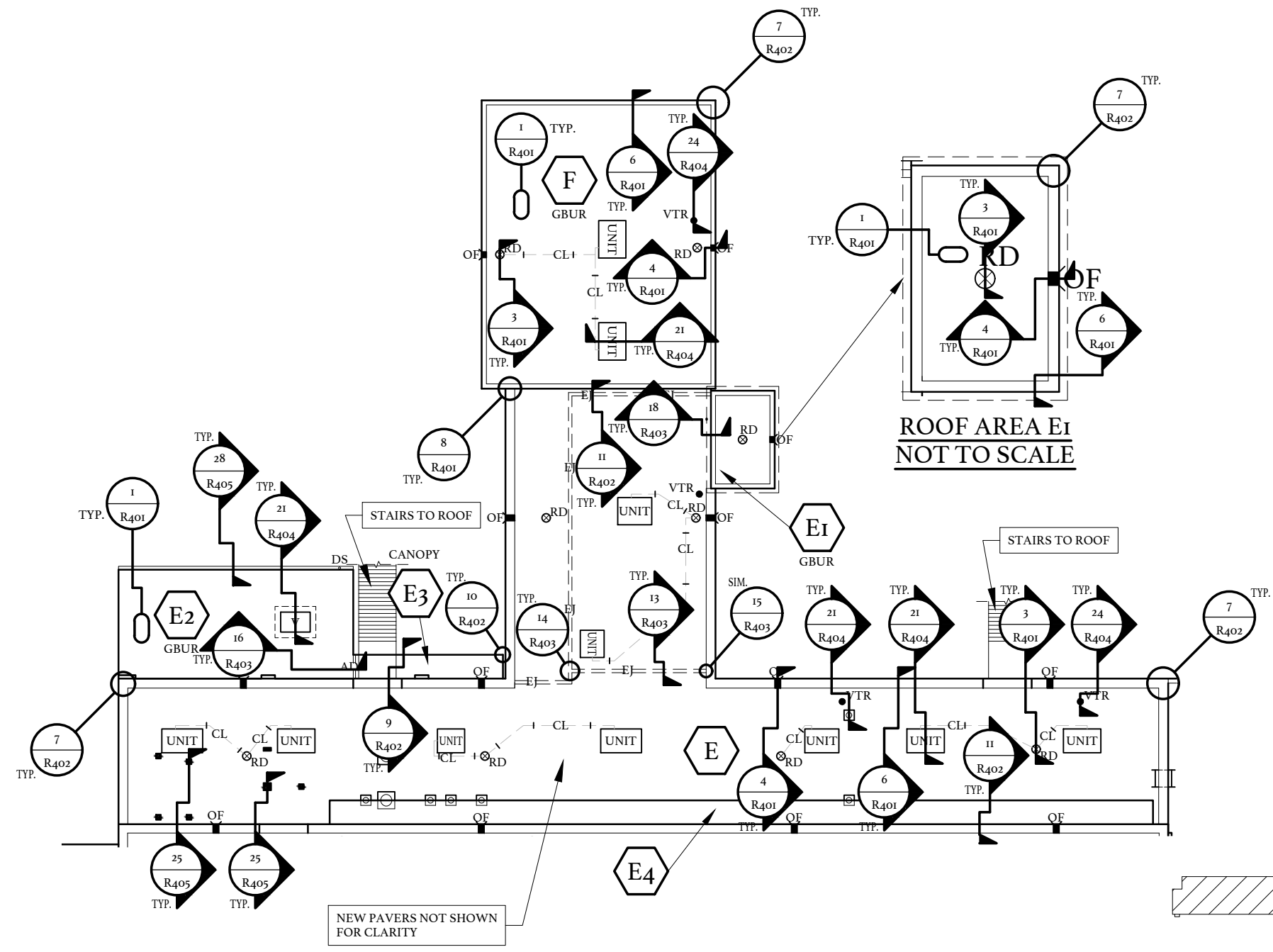
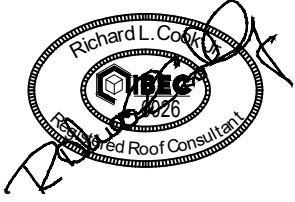
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

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

R311

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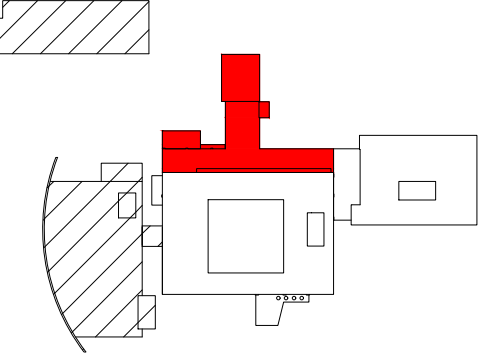


**ROOF AREA E1
NOT TO SCALE**

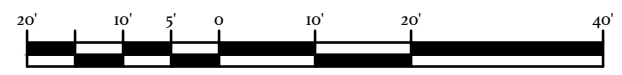
NEW PAVERS NOT SHOWN FOR CLARITY

- NOTES:**
1. PROVIDE A NEW PAVER SYSTEM WITH PEDESTALS ON AREA E TO ADHERE TO ASCE 7-22 AND ANSI/SPRI RP4.
 2. RAISE EXISTING PENETRATIONS AND TERMINATIONS SUCH AS THE EXPANSION JOINTS TO ACCOMMODATE NEW ROOF HEIGHT WITH PAVER SYSTEM ON AREA E.
 3. ALL PERIMETER/RAIL CONDITIONS SHALL BE 42" ABOVE TOP OF PAVER.

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



KEY PLAN



GRAPHIC SCALE

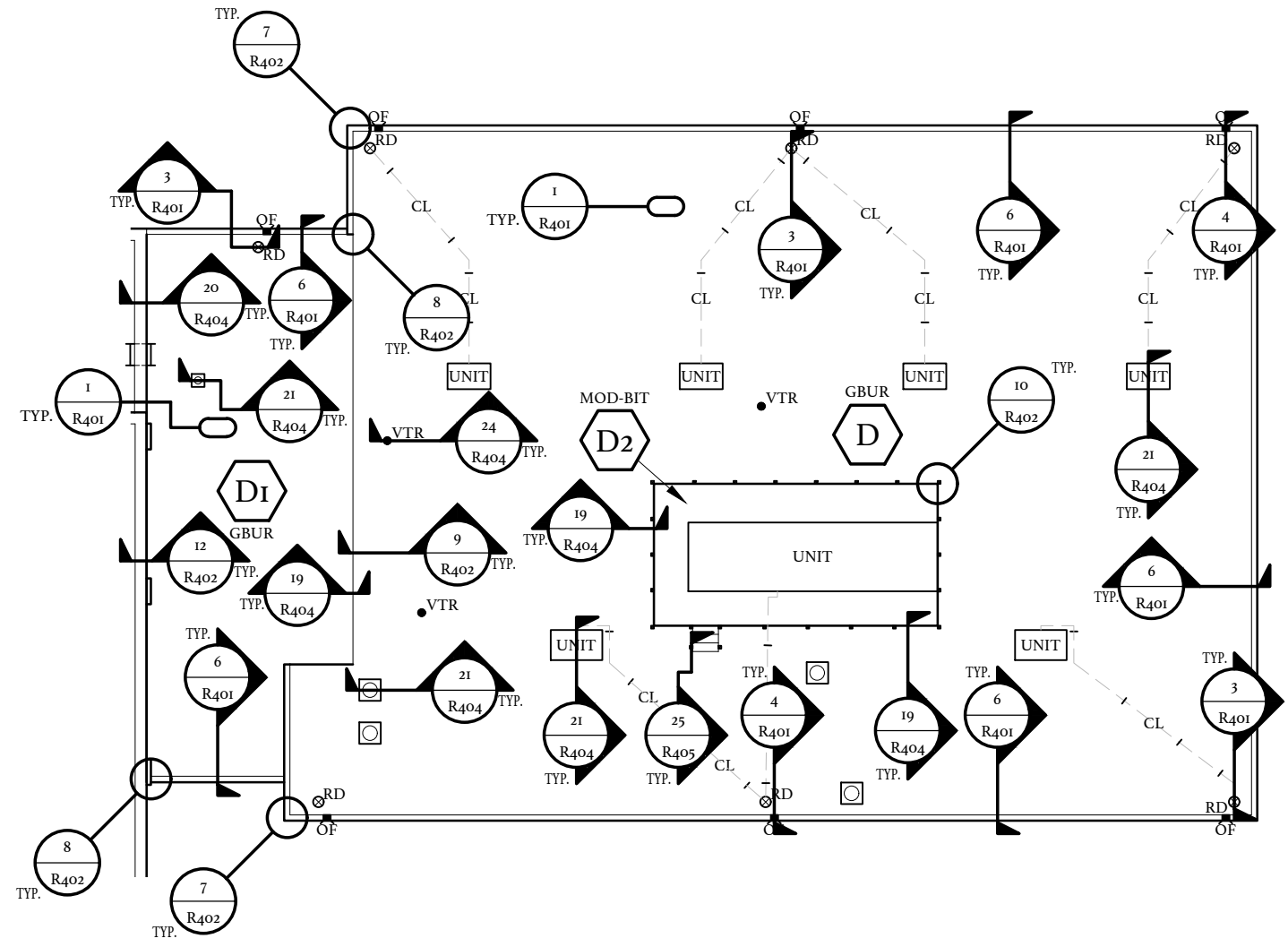
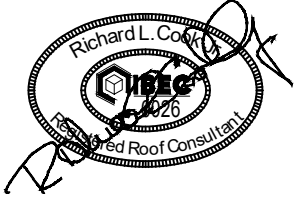


HORRY-GEORGETOWN TECHNICAL COLLEGE
**REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000**
OWNER PROJECT NUMBER: H59-0220-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

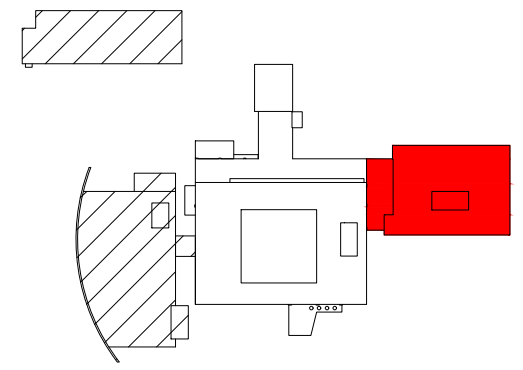
DATE:	03/12/2024
BEE PROJECT #:	23010C
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

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

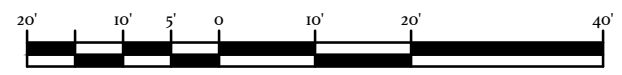
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**NEW ROOF PLAN
AREAS D, Di, & D2
BUILDING 1000**



KEY PLAN



GRAPHIC SCALE

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

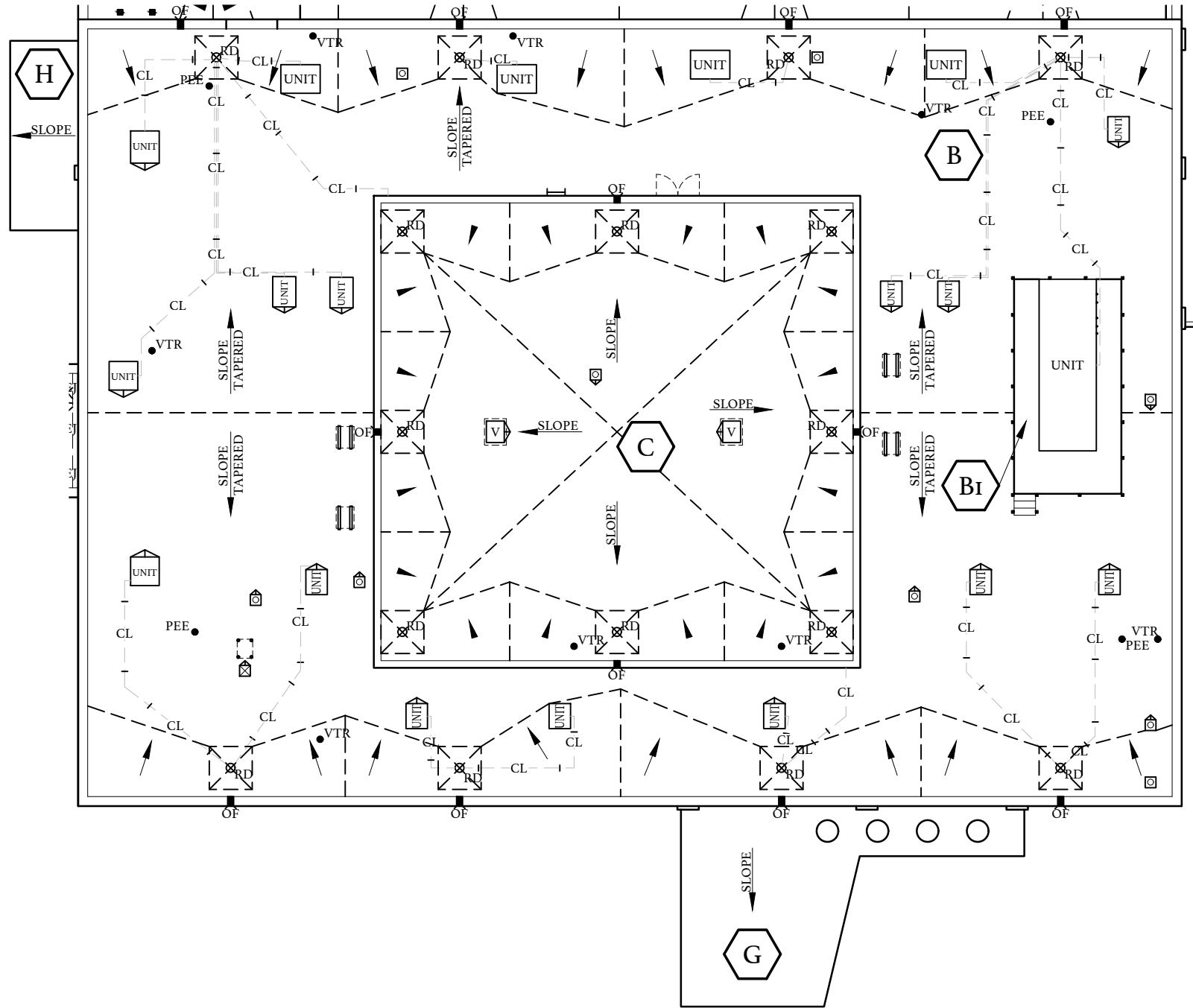
OWNER PROJECT NUMBER: H59-0229-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

**NEW ROOF
PLAN AREAS
D, Di, & D2
BUILDING 1000**

R313

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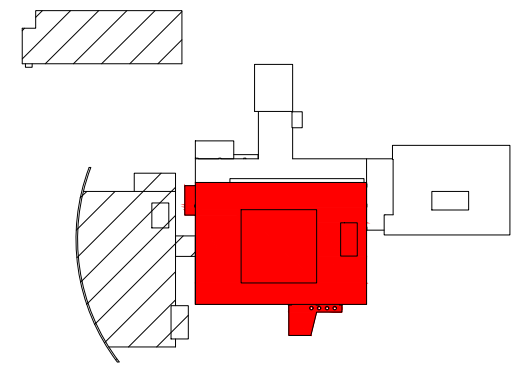


TAPER ROOF PLAN
AREAS B, Bi, C, G, & H
BUILDING 1000

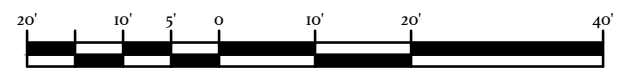


TAPERED INSULATION NOTES

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.



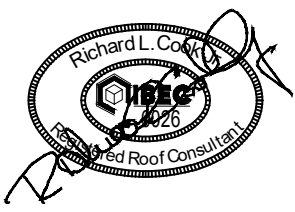
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
 HANAHAN, SC 29410



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

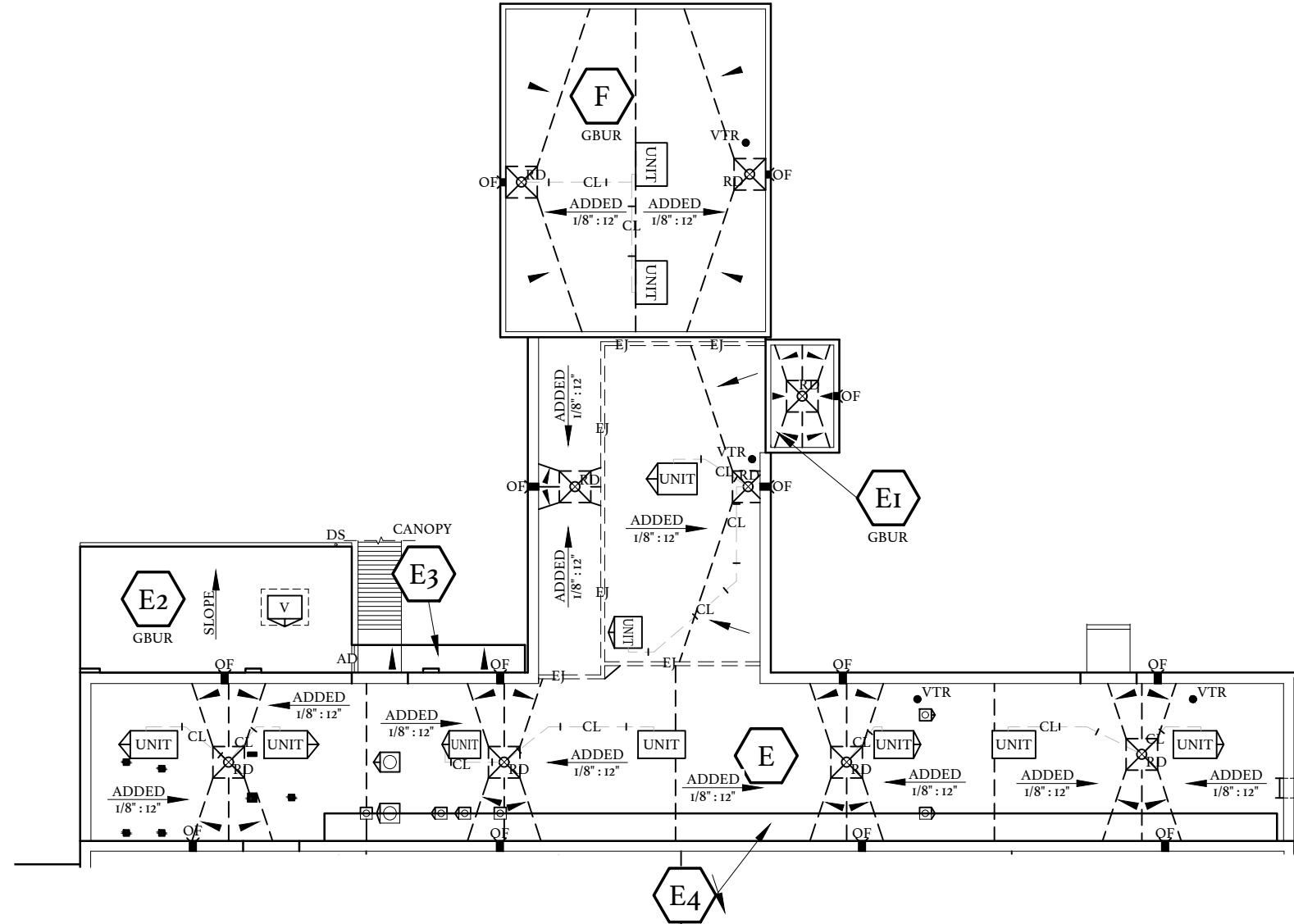
OWNER PROJECT NUMBER: H59-6229-PD
 BEE PROJECT NUMBER: 23010C
 3501 PAMPAS DRIVE
 MYRTLE BEACH, SOUTH CAROLINA

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

TAPER ROOF
PLAN AREAS
B, Bi, C, G, & H
BUILDING 1000

R314

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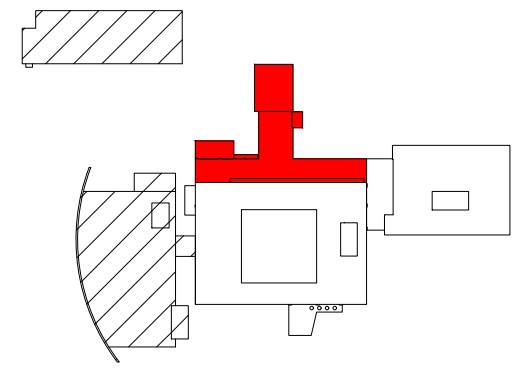


NOTES:
 1. ENSURE EXPANSION JOINTS ARE RAISED TO ACCOMMODATE NEW ROOF THICKNESS.

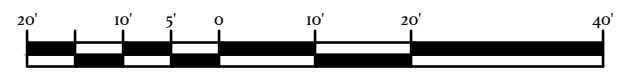
**TAPER ROOF PLAN
 AREAS E, E1, E2, E3, E4, & F
 BUILDING 1000**

TAPERED INSULATION NOTES

- THE PRIMARY SLOPE IS IN THE EXISTING DECK.
 - ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/8 INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
 - SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
- SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
- BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
- INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
- 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.
 - 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.
 - 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.).
 - PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
- 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.
 - TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
 - DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.



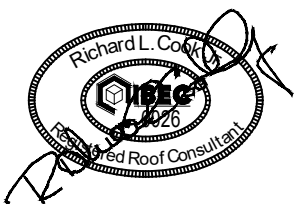
KEY PLAN



GRAPHIC SCALE



PLAN NORTH

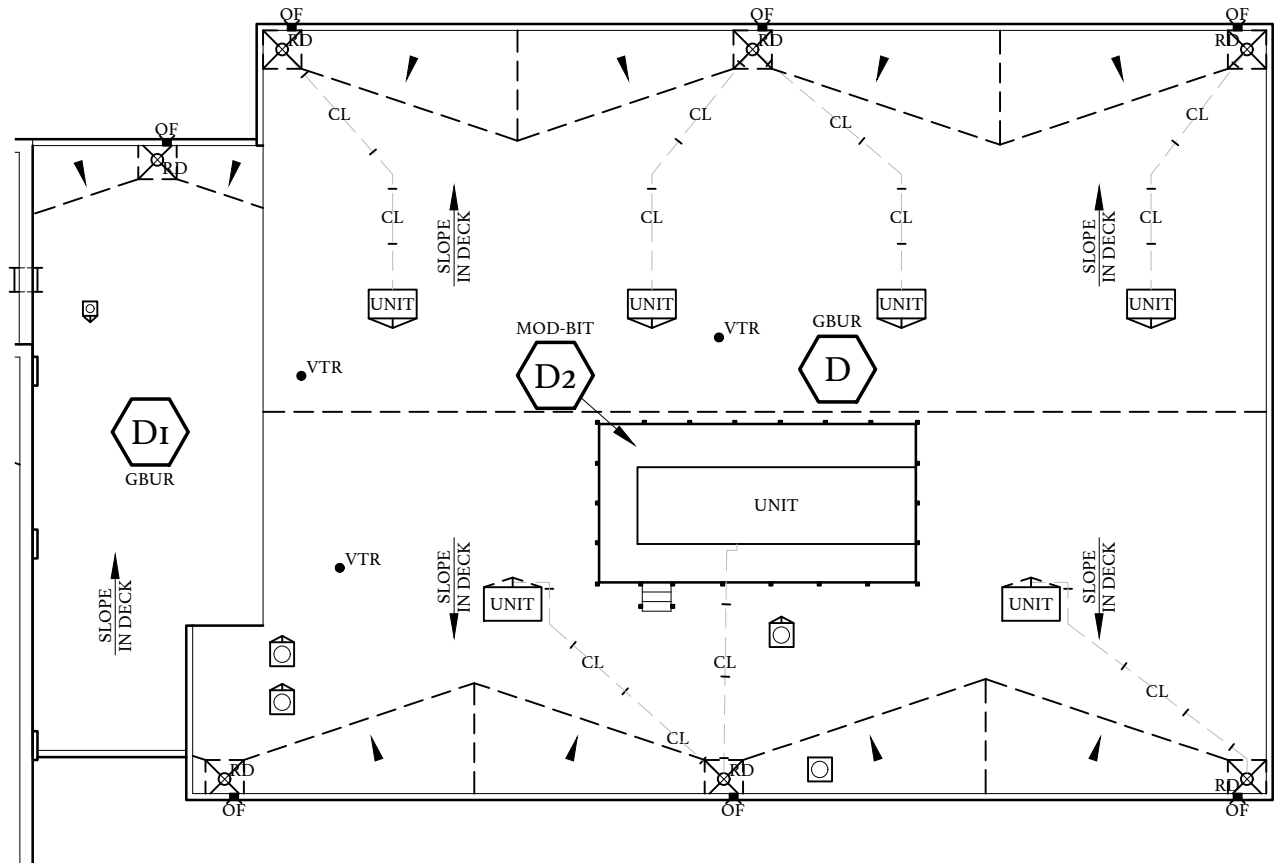


HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000
 OWNER PROJECT NUMBER: H59-0229-PD
 BEE PROJECT NUMBER: 23010C
 3501 PAMPAS DRIVE
 MYRTLE BEACH, SOUTH CAROLINA

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

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

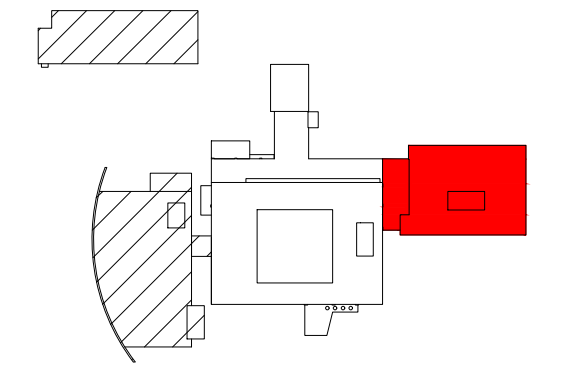
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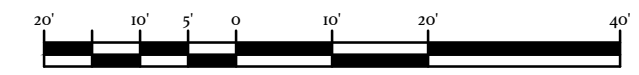
**TAPER ROOF PLAN
AREAS D, D1, & D2
BUILDING 1000**

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.



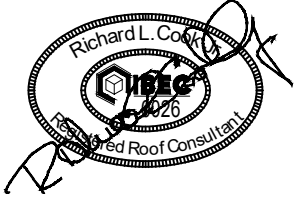
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

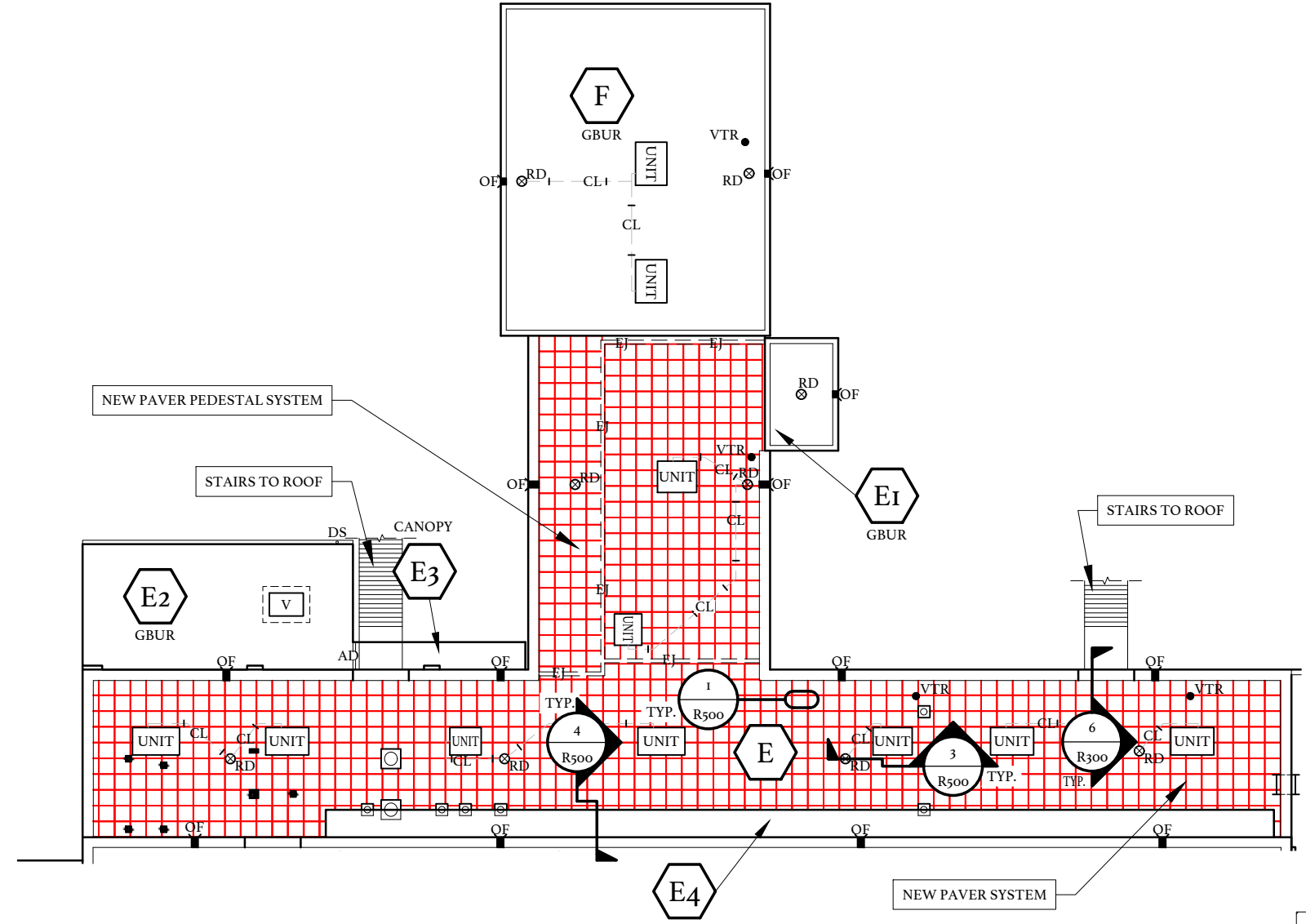
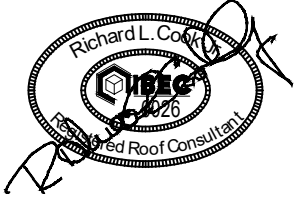


HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000
OWNER PROJECT NUMBER: H59-6229-PD
BEE PROJECT NUMBER: 23010C
3501 PAMPAS DRIVE
MYRTLE BEACH, SOUTH CAROLINA

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

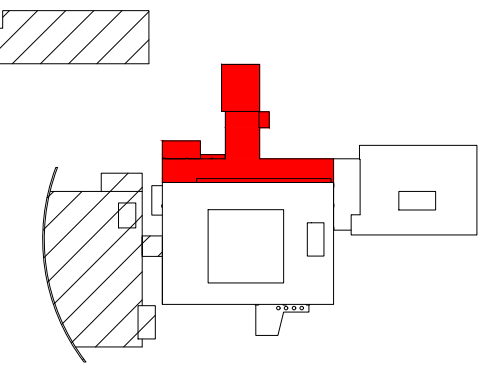
**TAPER ROOF
PLAN AREAS
D, D1, & D2
BUILDING 1000**

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- NOTES:**
1. PROVIDE A NEW PAVER SYSTEM WITH PEDESTALS ON AREA E TO ADHERE TO ASCE 7-22 AND ANSI/SPRI RP4.
 2. RAISE EXISTING PENETRATIONS AND TERMINATIONS SUCH AS THE EXPANSION JOINTS TO ACCOMMODATE NEW ROOF HEIGHT WITH PAVER SYSTEM ON AREA E.
 3. ALL PERIMETER/RAIL CONDITIONS SHALL BE 42" ABOVE TOP OF PAVER.

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



KEY PLAN



GRAPHIC SCALE



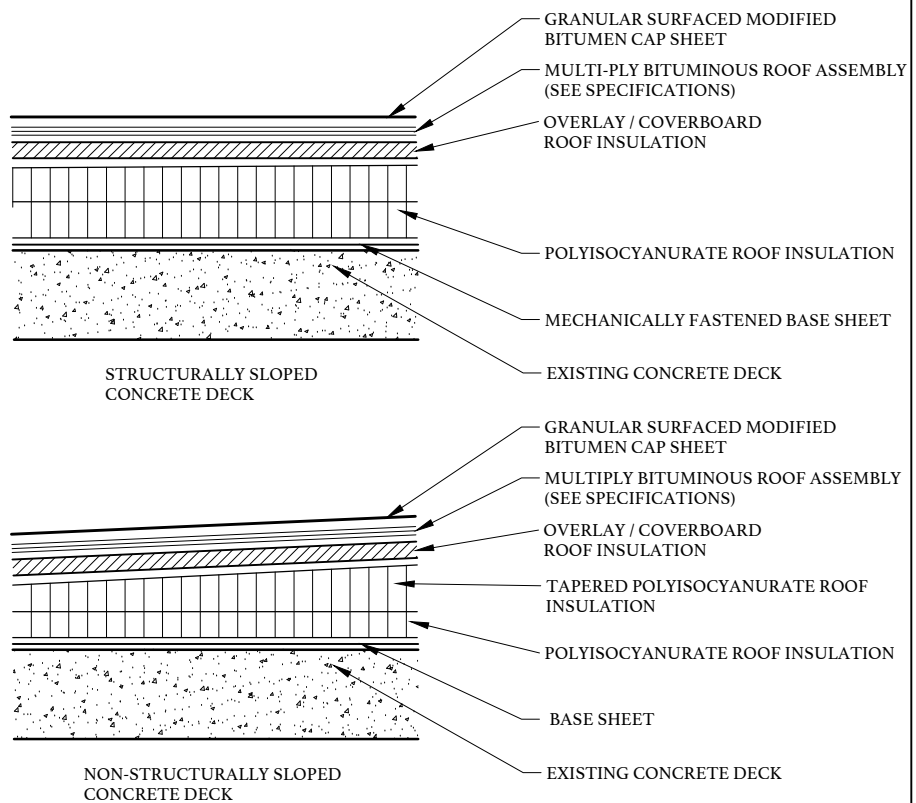
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
BUILDING 1000
 OWNER PROJECT NUMBER: H59-6229-PD
 BEE PROJECT NUMBER: 23010C
 3501 PAMPAS DRIVE
 MYRTLE BEACH, SOUTH CAROLINA

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REVISION:	

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

R317

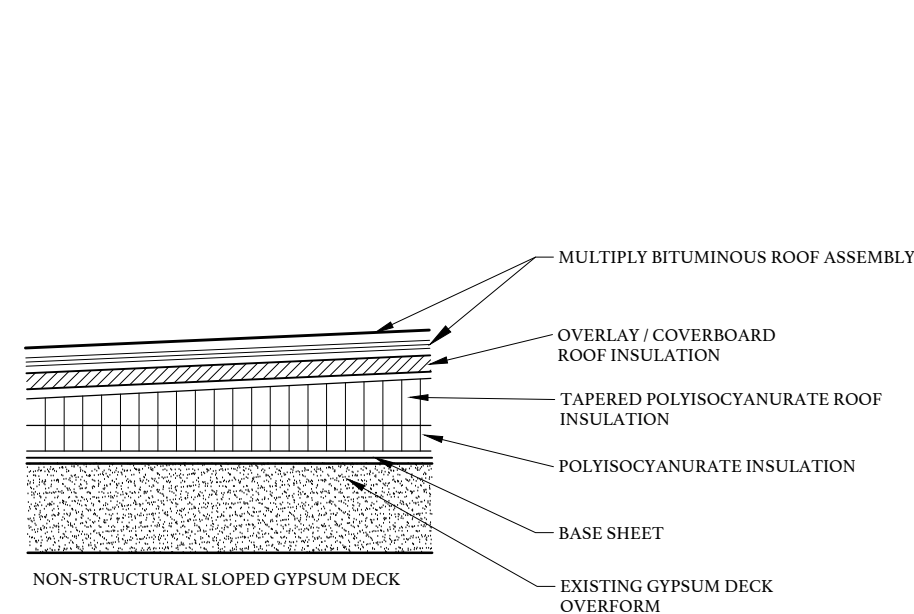
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NOTES:

- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM

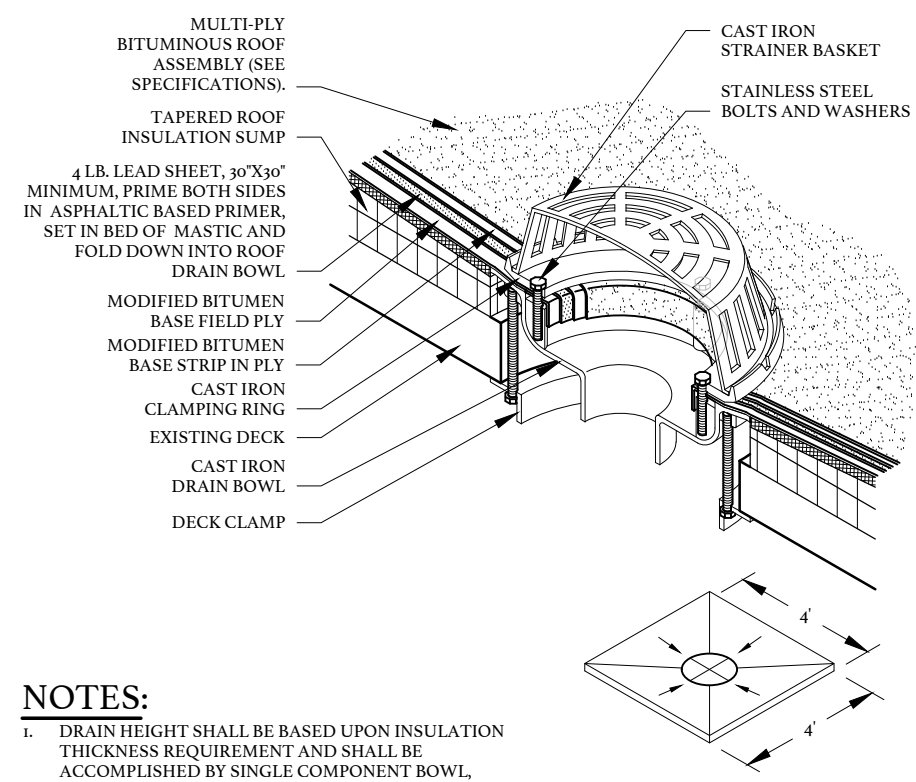
1 MODIFIED BITUMEN ROOF ASSEMBLY
 R401 NOT TO SCALE (TYPICAL)



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)

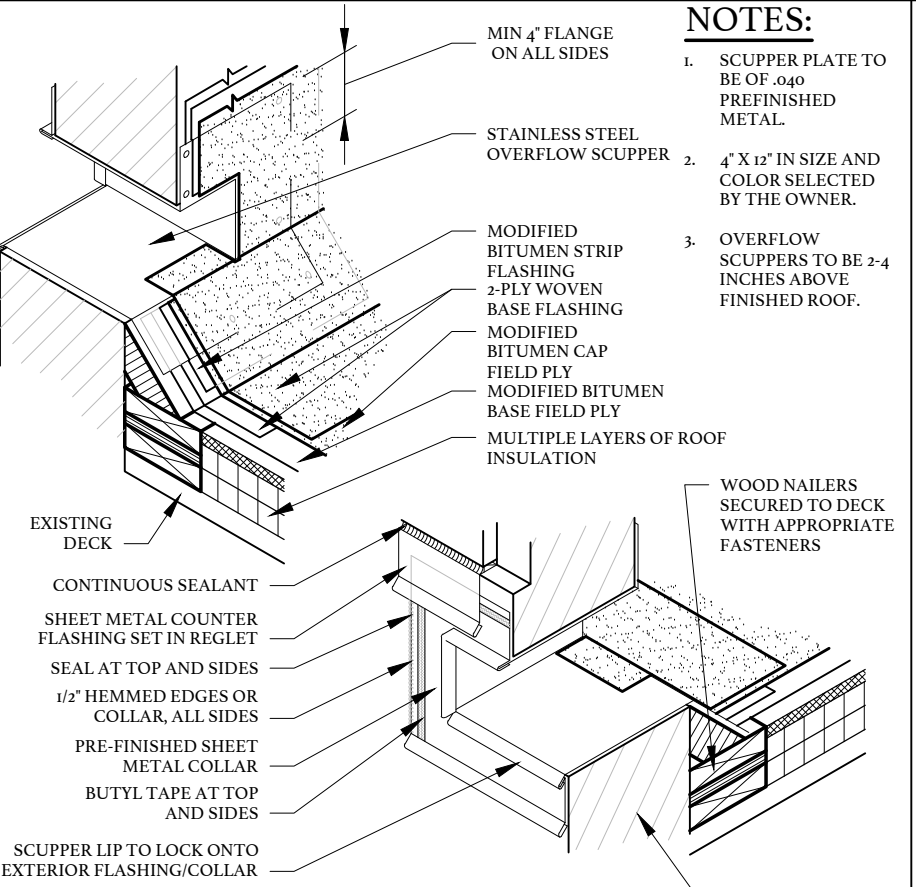


NOTES:

- 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

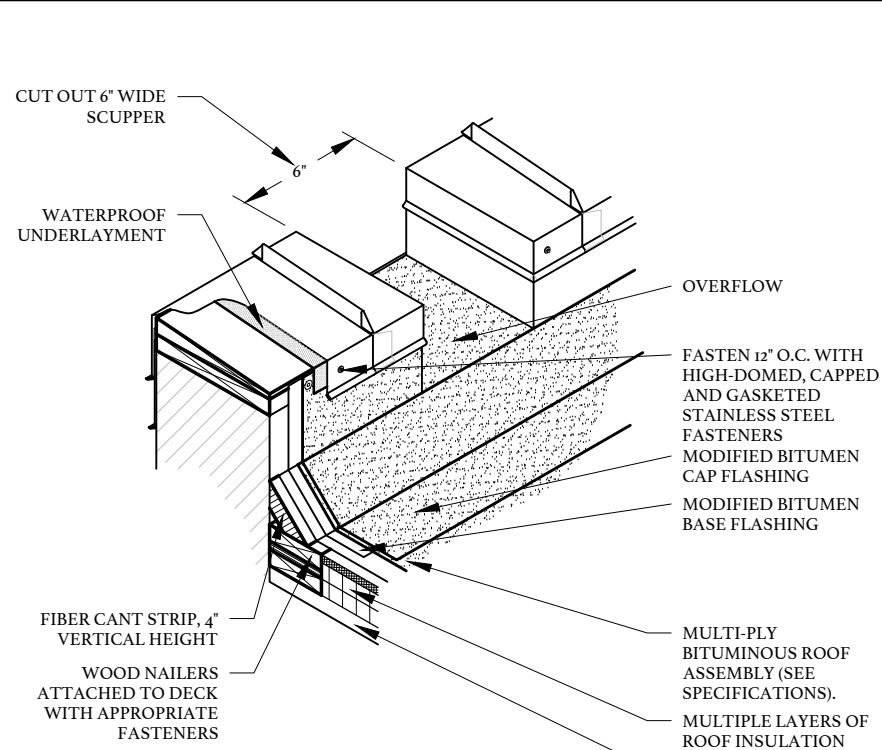
3 ROOF DRAIN
 R401 NOT TO SCALE (TYPICAL)



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.

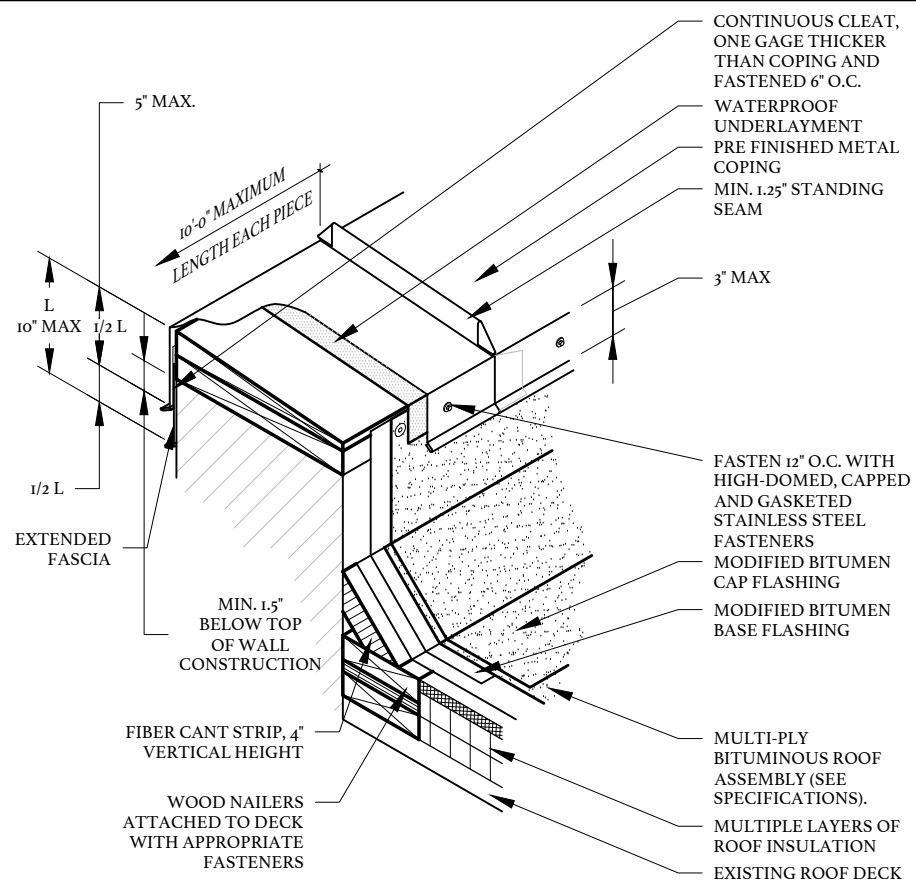
4 OVERFLOW SCUPPER
 R401 NOT TO SCALE (TYPICAL)



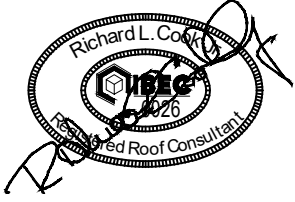
NOTES:

- 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
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS

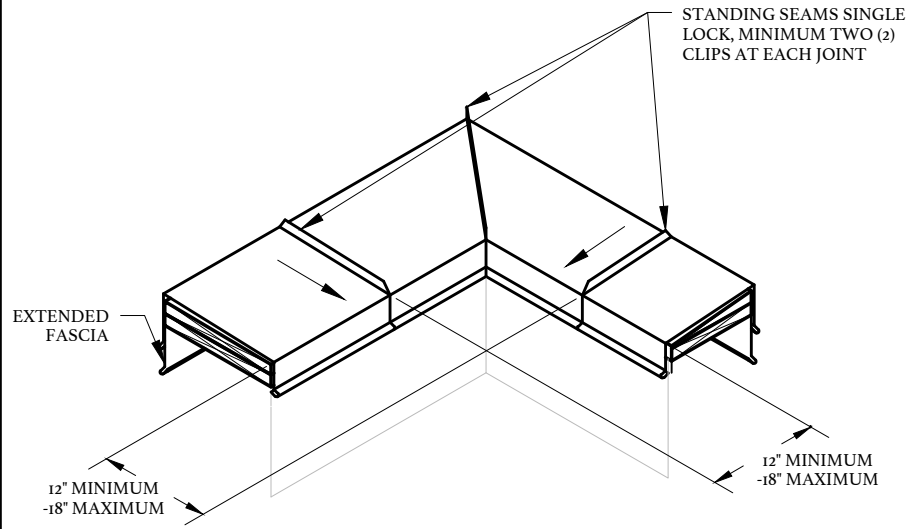
OWNER PROJECT NUMBER: H59-0229-PD
 BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

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

DETAILS / SECTIONS

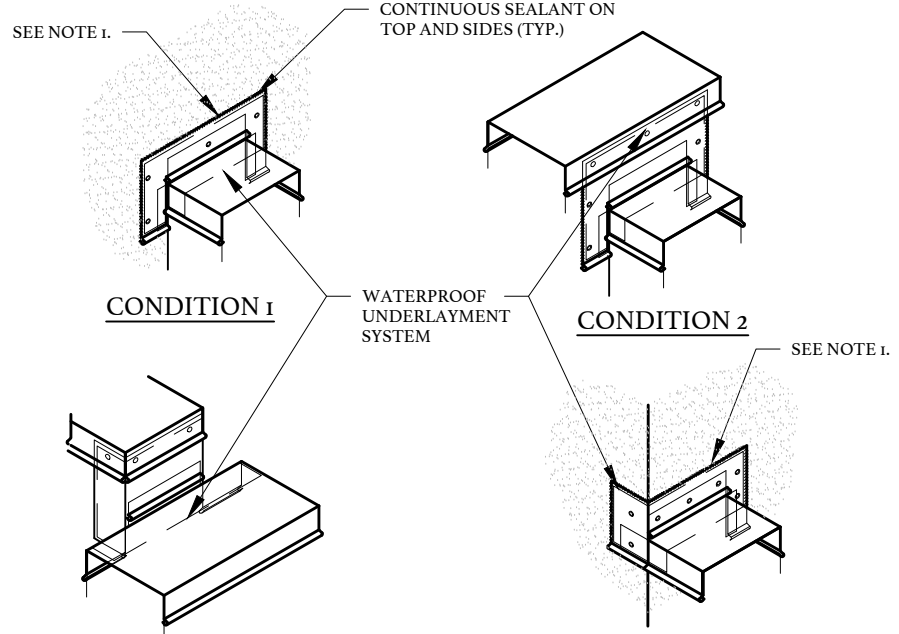
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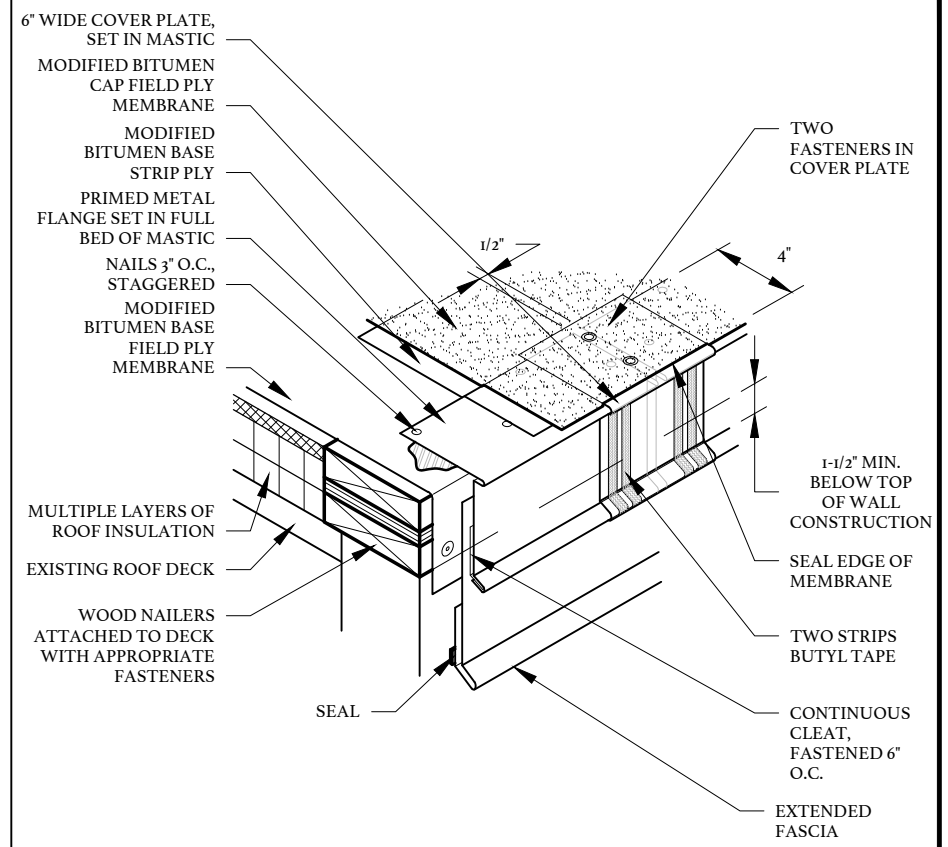
7
R402 NOT TO SCALE (TYPICAL)
**COPING
PREFABRICATED CORNER**

NOTES:

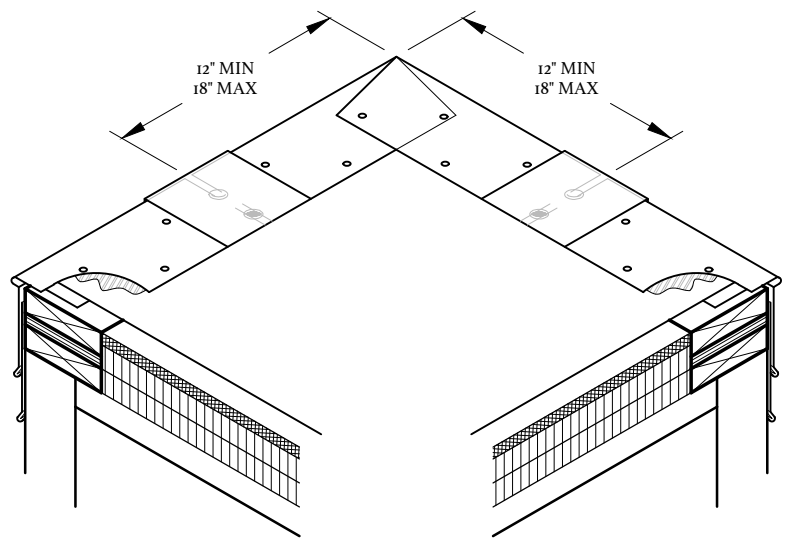
- CUT REGLET / RAGGLE TO DEPTH OF 1 1/4", INSERT LEAD WEDGES 12" O.C. AND PROVIDE BACKER ROD AND SEALANT.
- WATERPROOF UNDERLAYMENT UNDER ALL SHEET METAL TRANSITION UP VERTICAL SURFACES, AROUND CORNERS AND ONTO HORIZONTAL SURFACES (MINIMUM FOUR INCHES).
- SEE DETAILS FOR ADDED/EXTENDED COUNTERFLASHING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



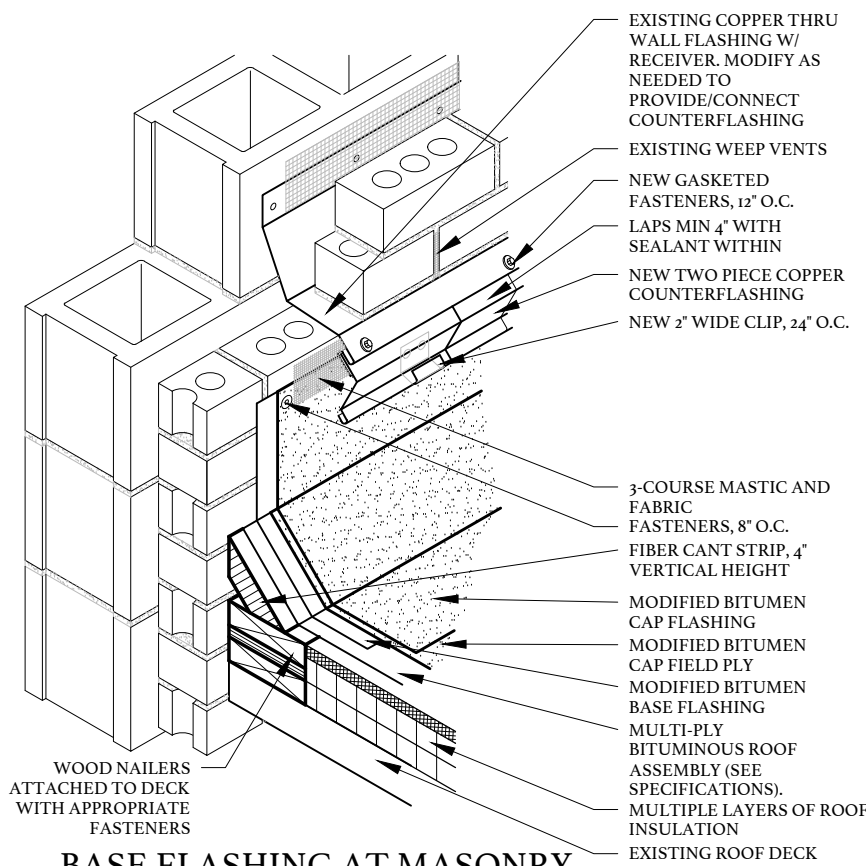
8
R402 NOT TO SCALE (TYPICAL)
**COPING AND AREA
DIVIDER TERMINATIONS**



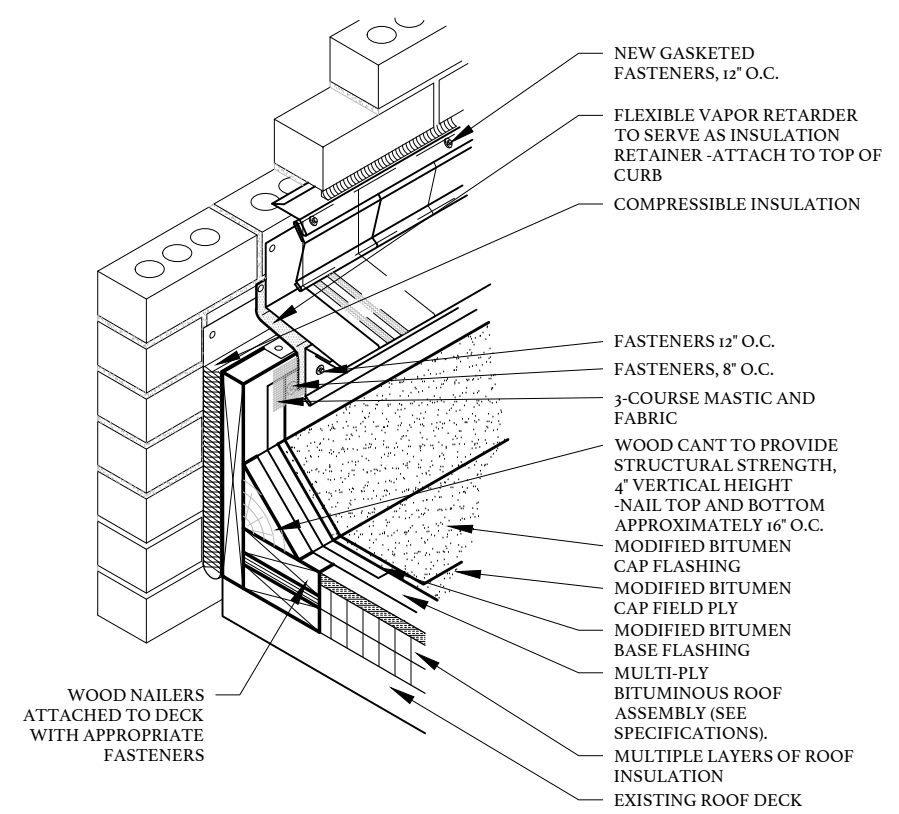
9
R402 NOT TO SCALE (TYPICAL)
METAL ROOF EDGE



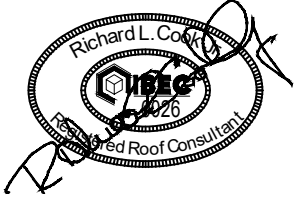
10
R402 NOT TO SCALE (TYPICAL)
**PREFABRICATED METAL
ROOF EDGE CORNER**



11
R402 NOT TO SCALE (TYPICAL)
**BASE FLASHING AT MASONRY
WITH EXISTING THRU WALL**



12
R402 NOT TO SCALE (TYPICAL)
EXPANSION JOINT AT A WALL



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

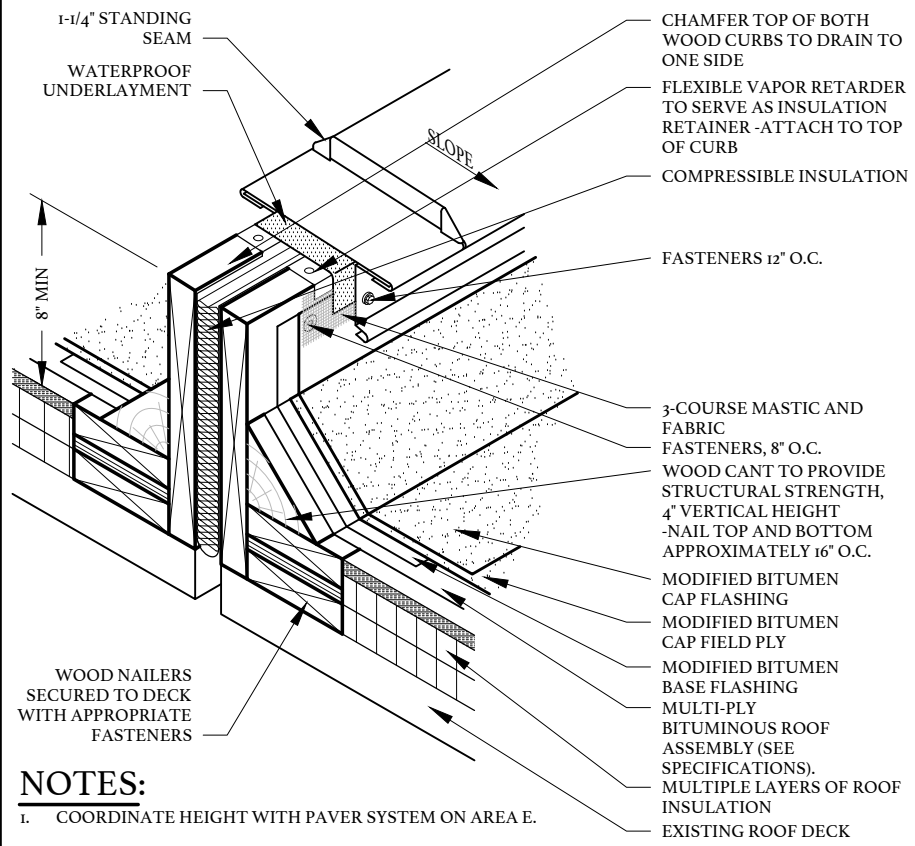
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BEE PROJECT NUMBER: 23010C

MYRTLE BEACH, SOUTH CAROLINA

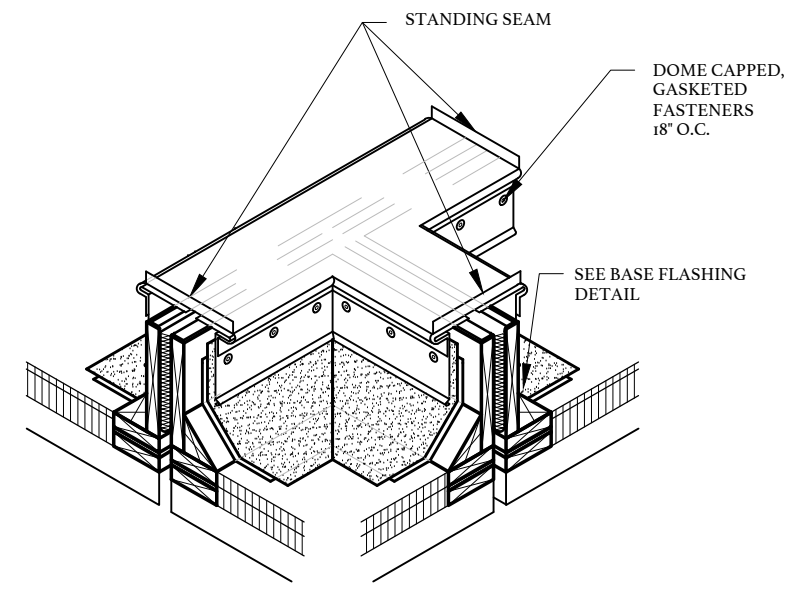
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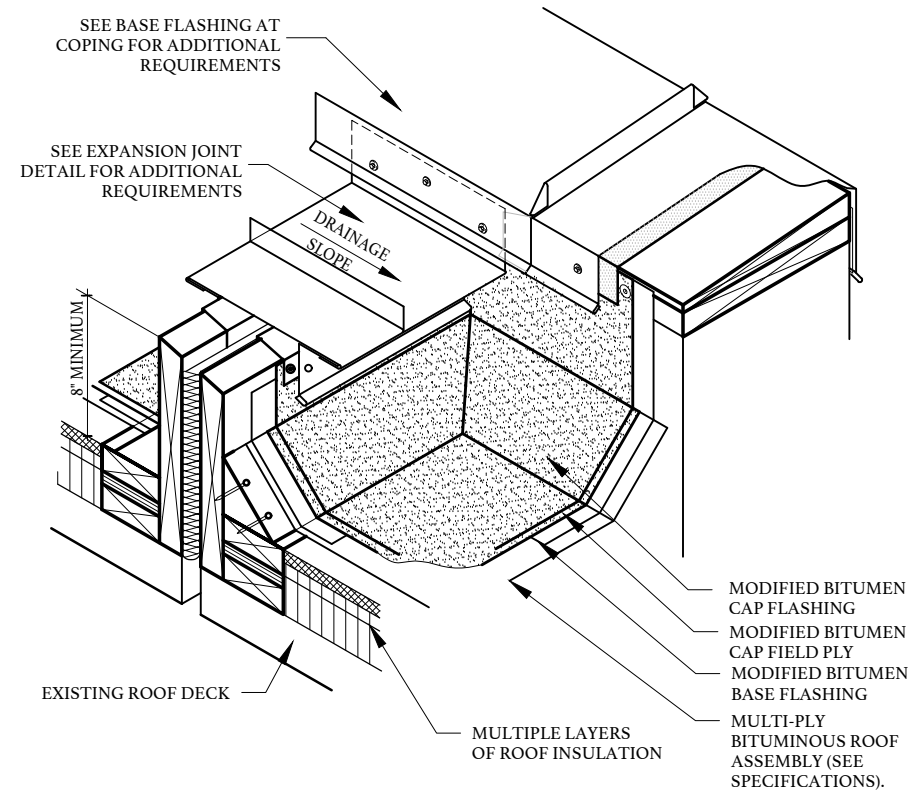


13
R403 NOT TO SCALE (TYPICAL)
EXPANSION JOINT

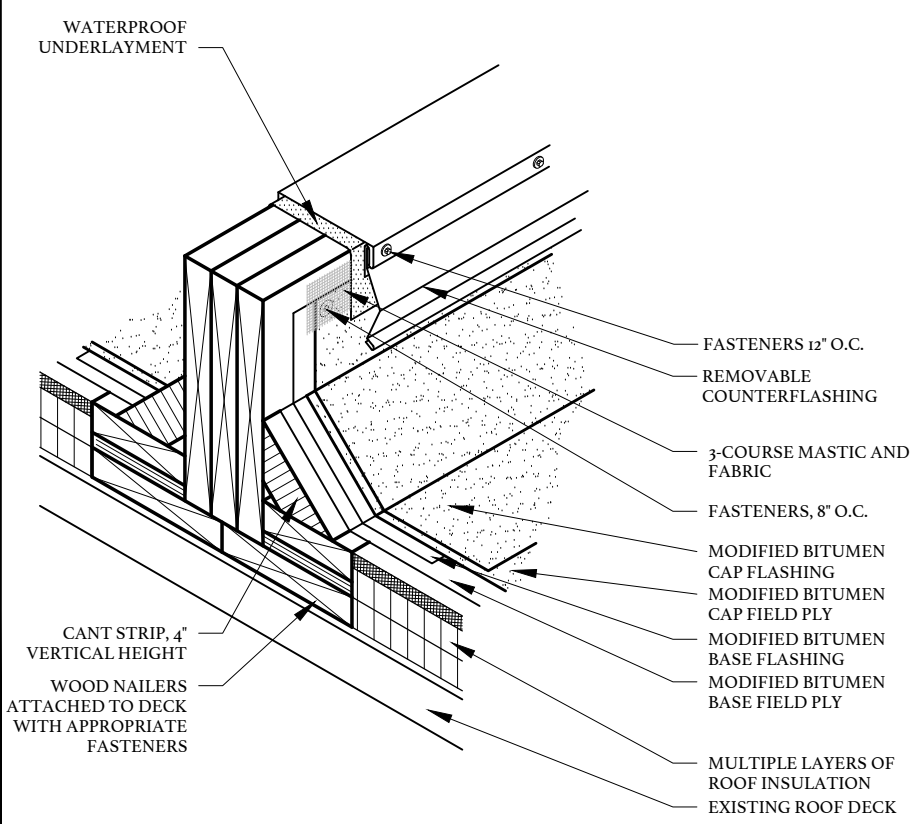


NOTES:
1. SEE EXPANSION JOINT DETAIL FOR SPECIFIC CRITERIA.

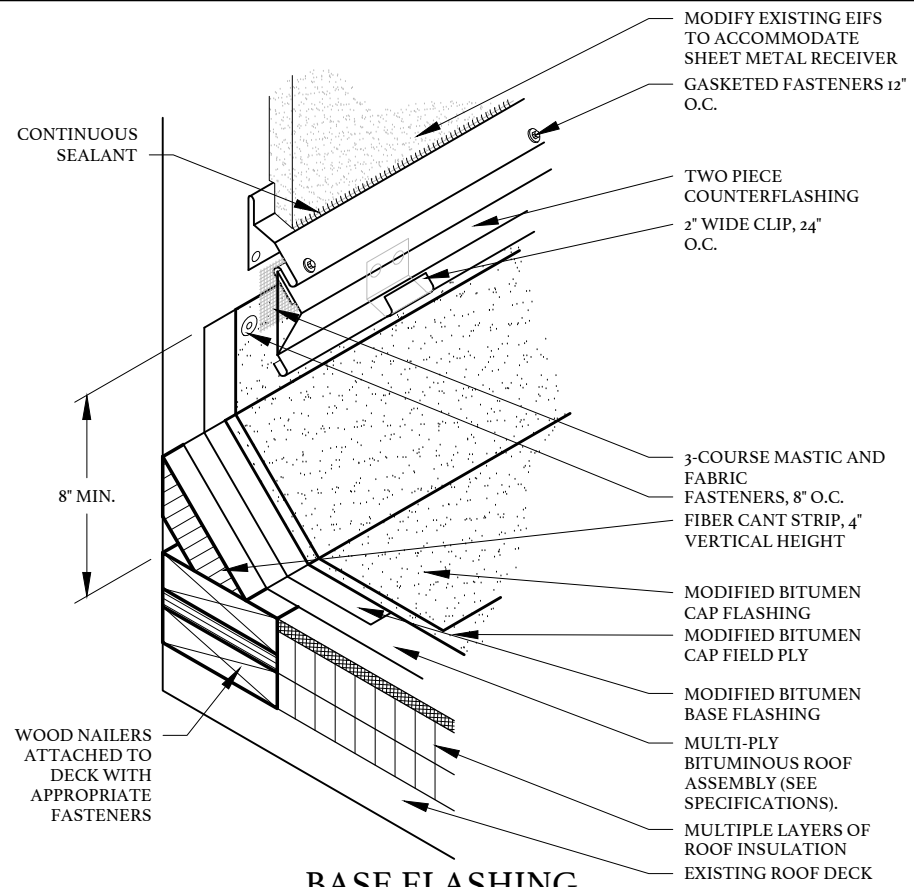
14
R403 NOT TO SCALE (TYPICAL)
EXPANSION JOINT "T" INTERSECTION DETAIL



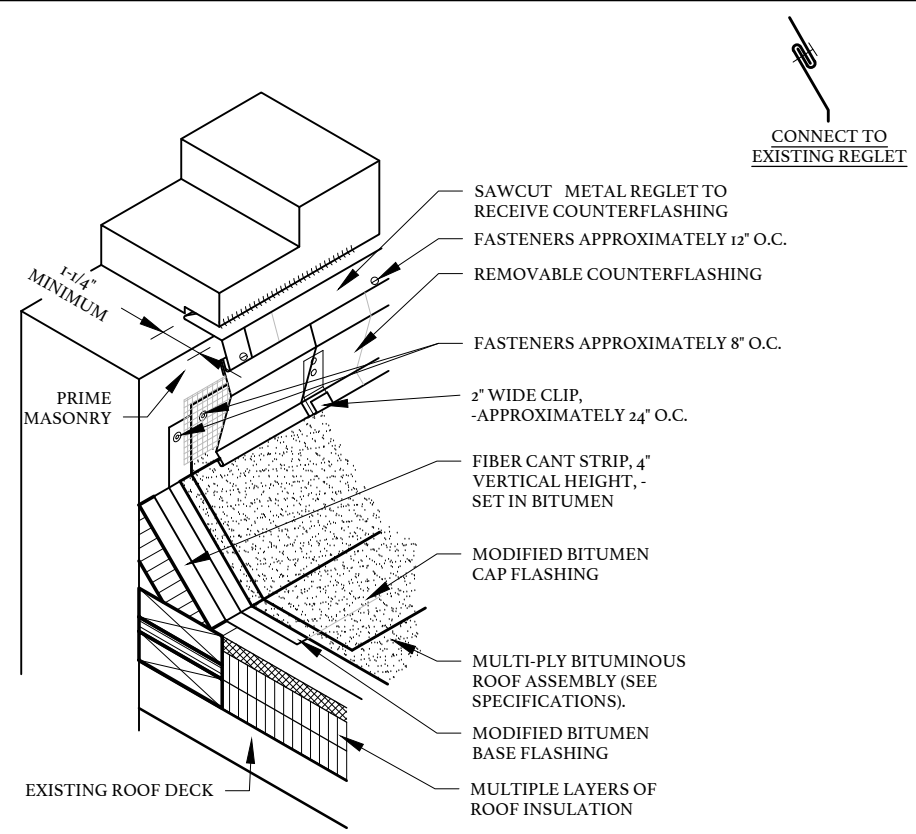
15
R403 NOT TO SCALE (TYPICAL)
EXPANSION JOINT TERMINATION



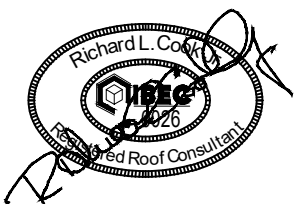
16
R403 NOT TO SCALE (TYPICAL)
AREA DIVIDER



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
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS

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

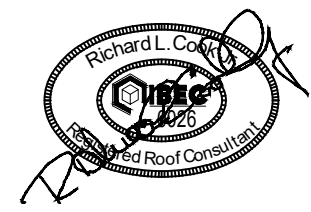
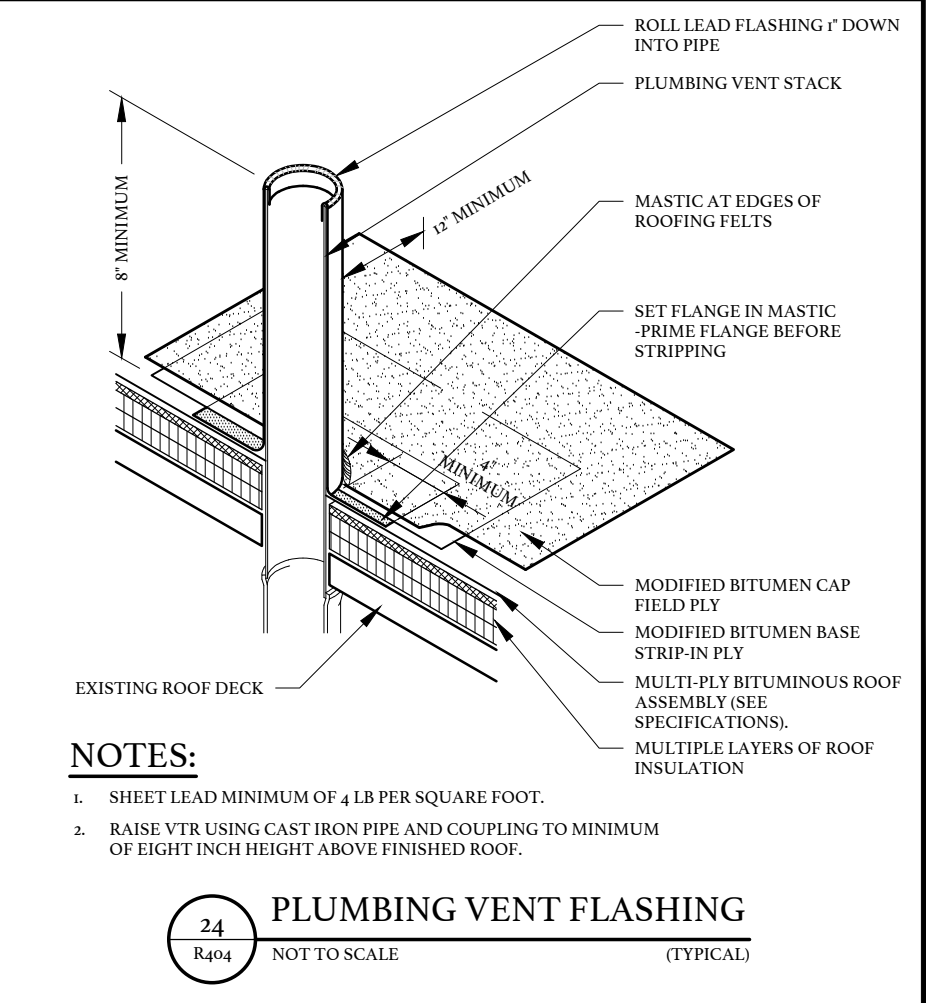
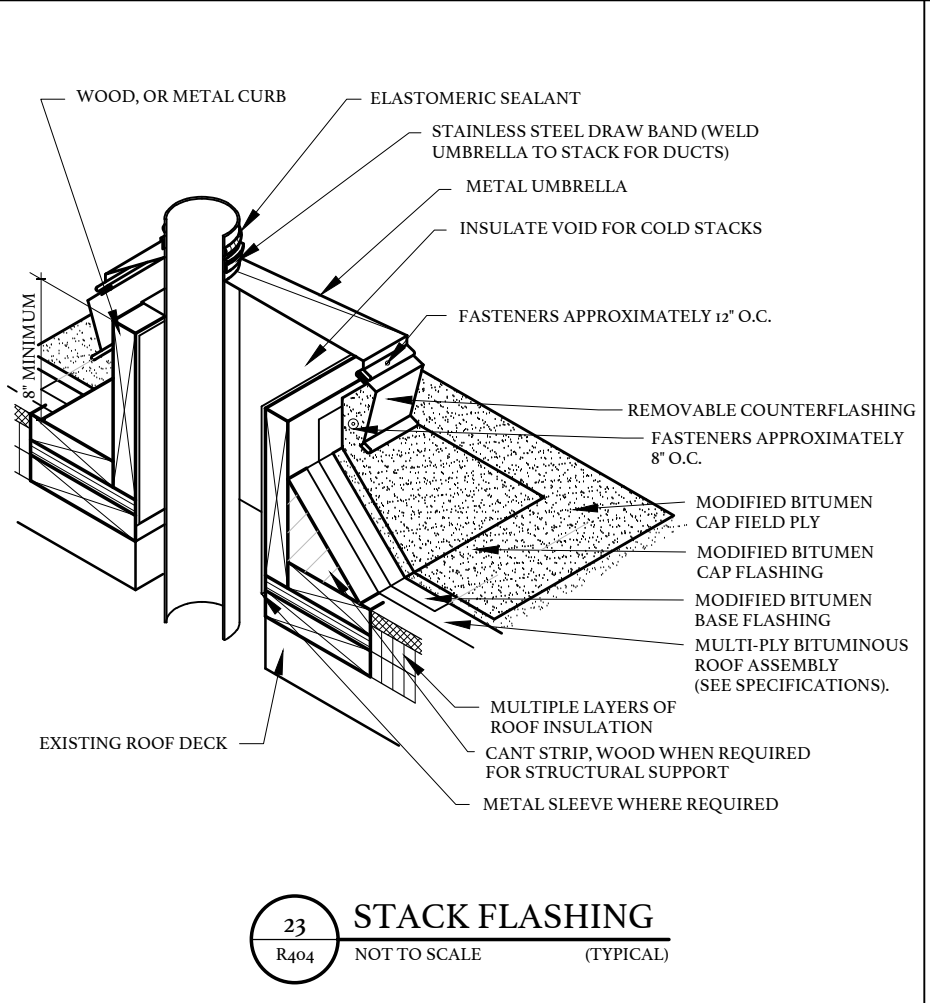
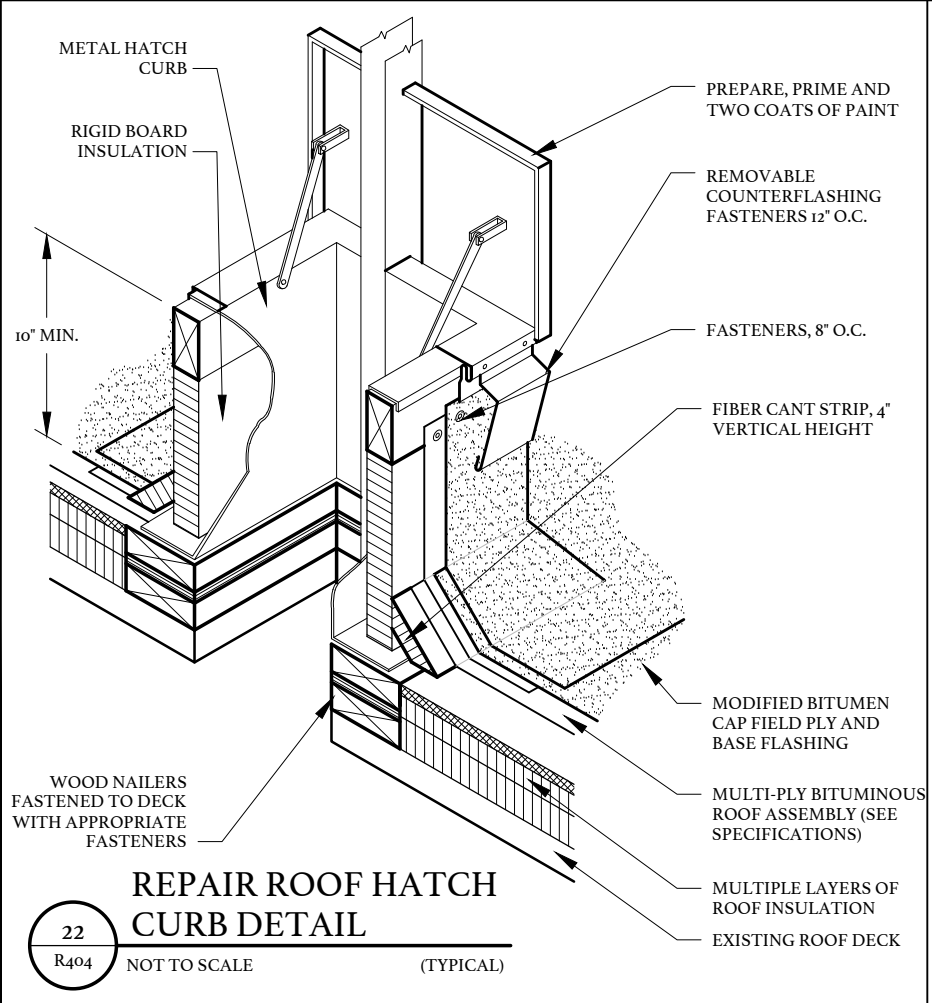
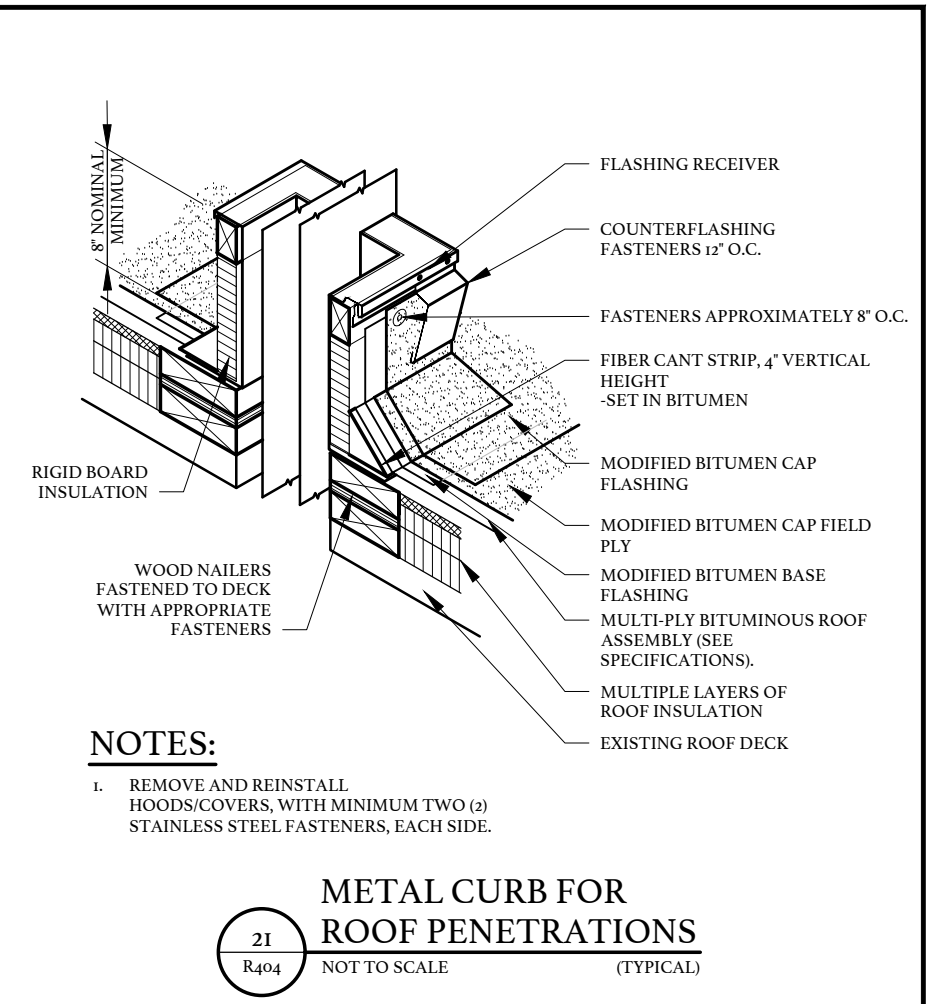
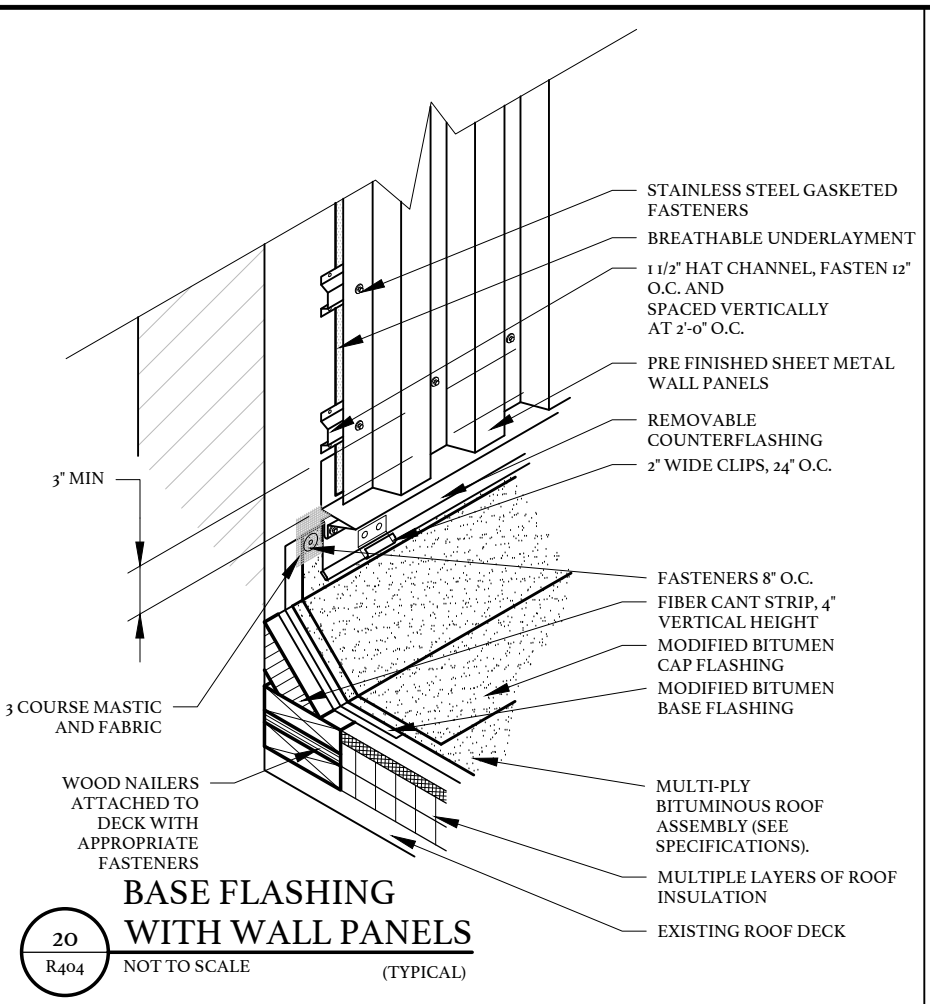
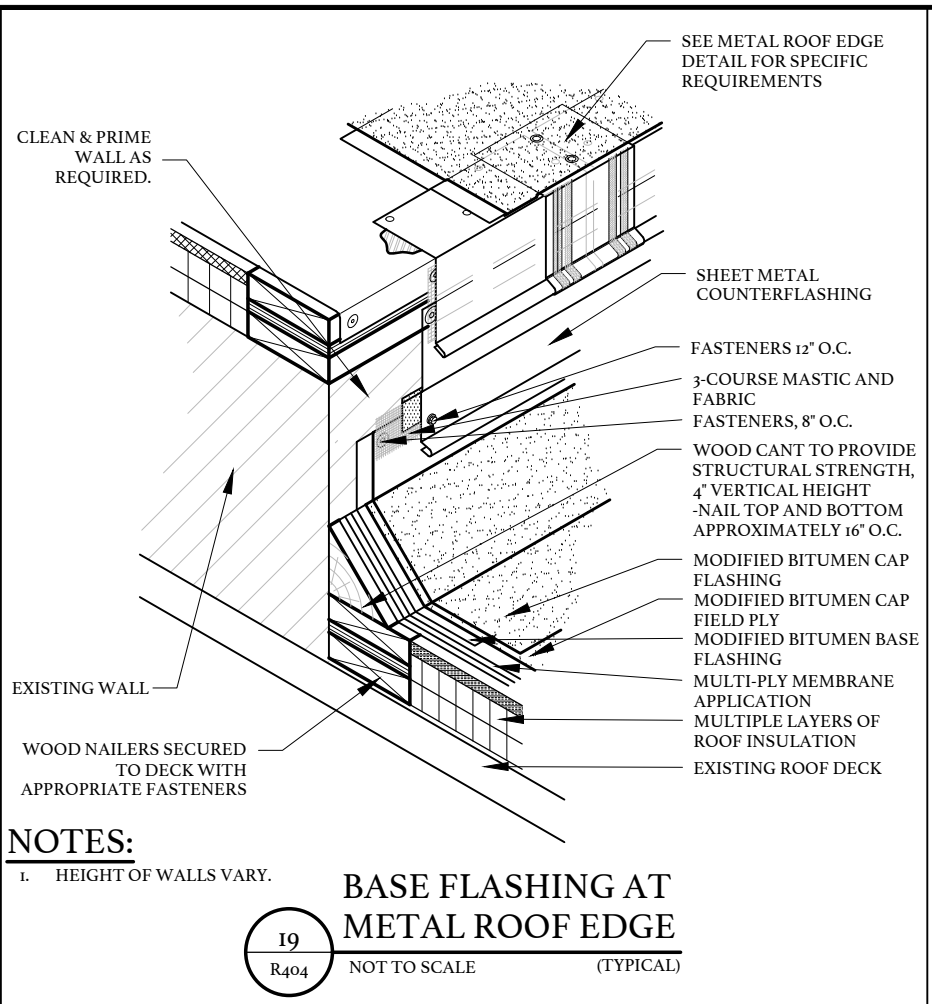
MYRTLE BEACH, SOUTH CAROLINA

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

DETAILS / SECTIONS

R403

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

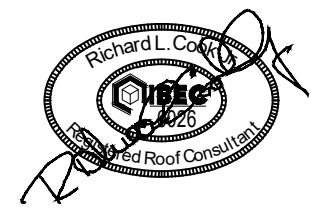
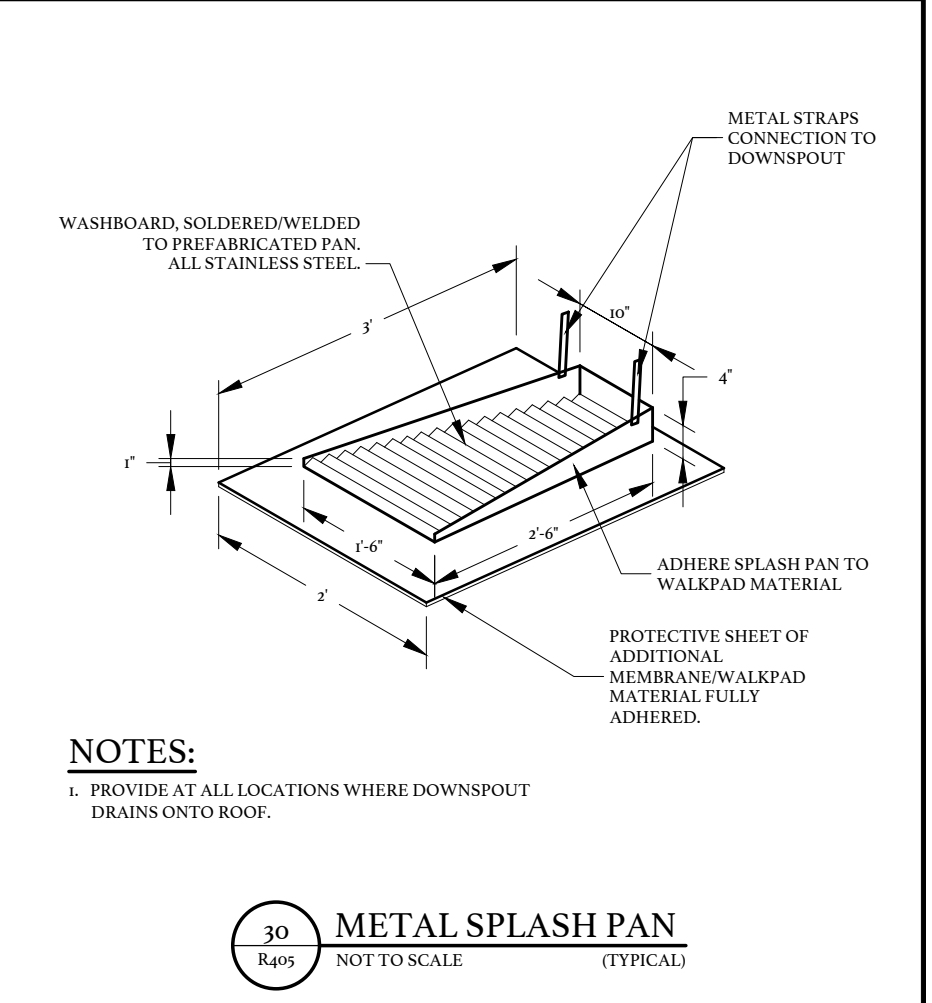
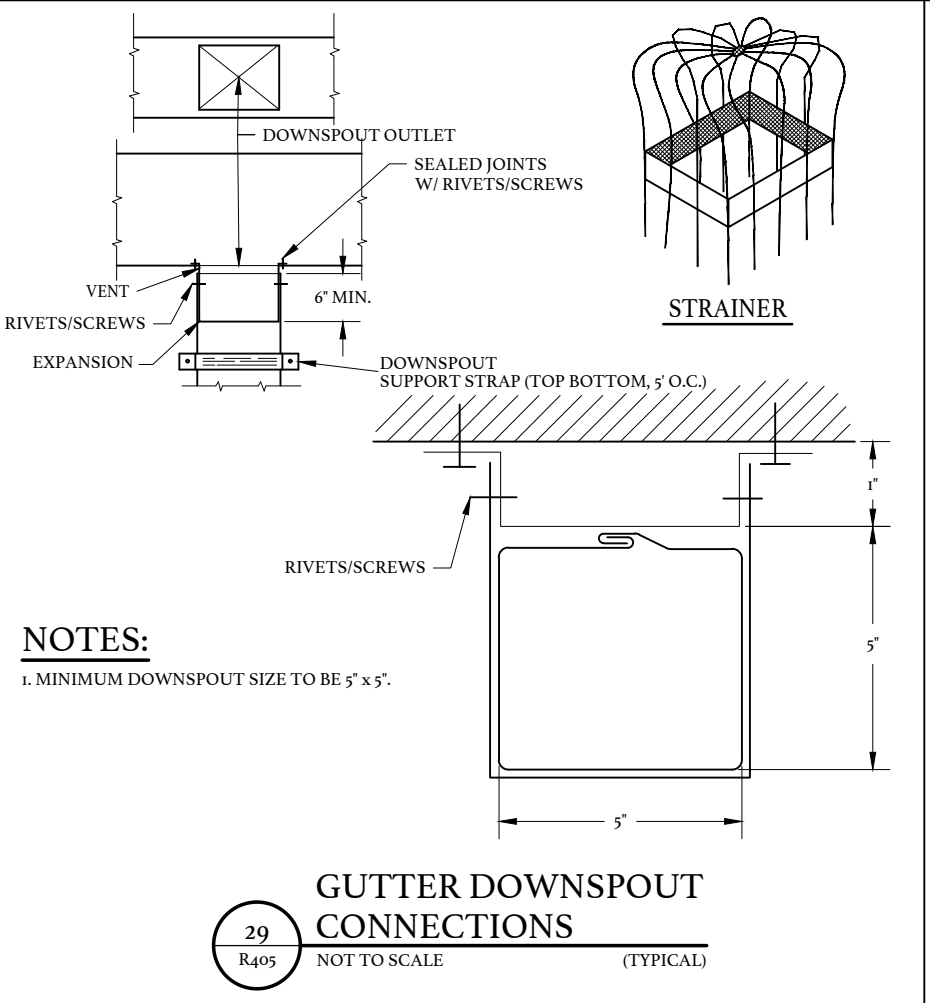
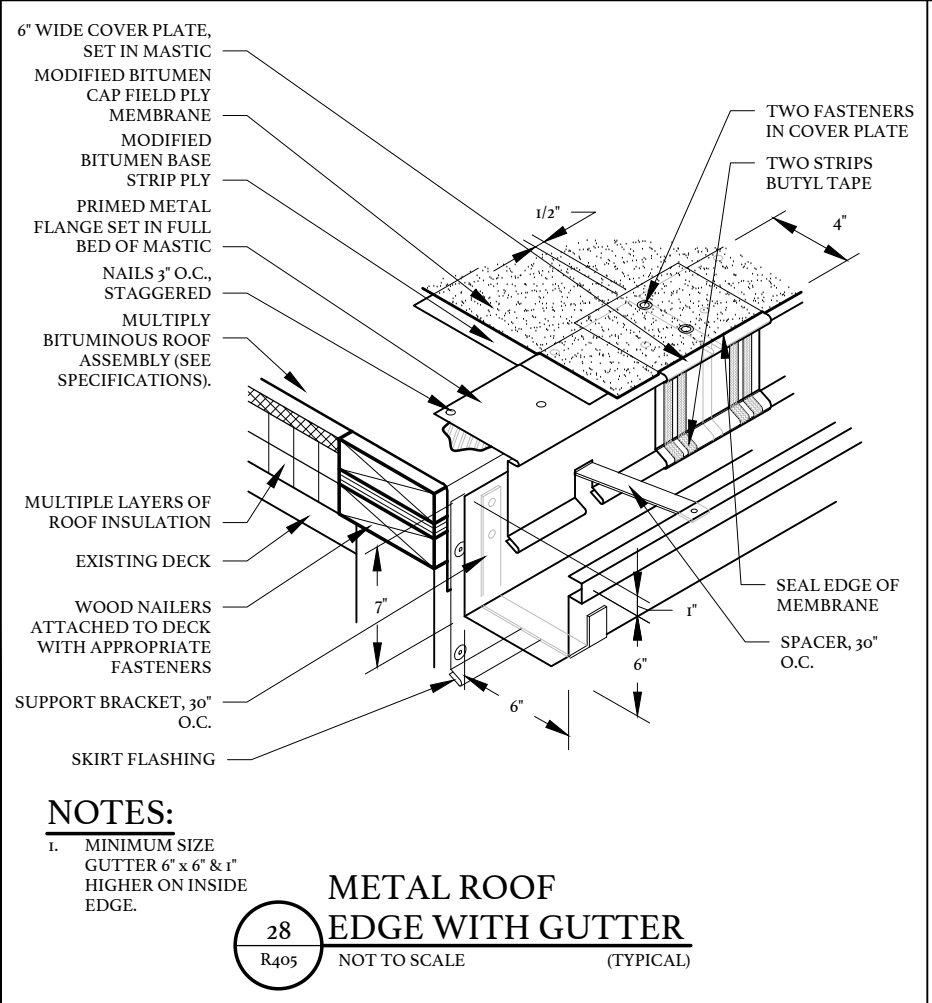
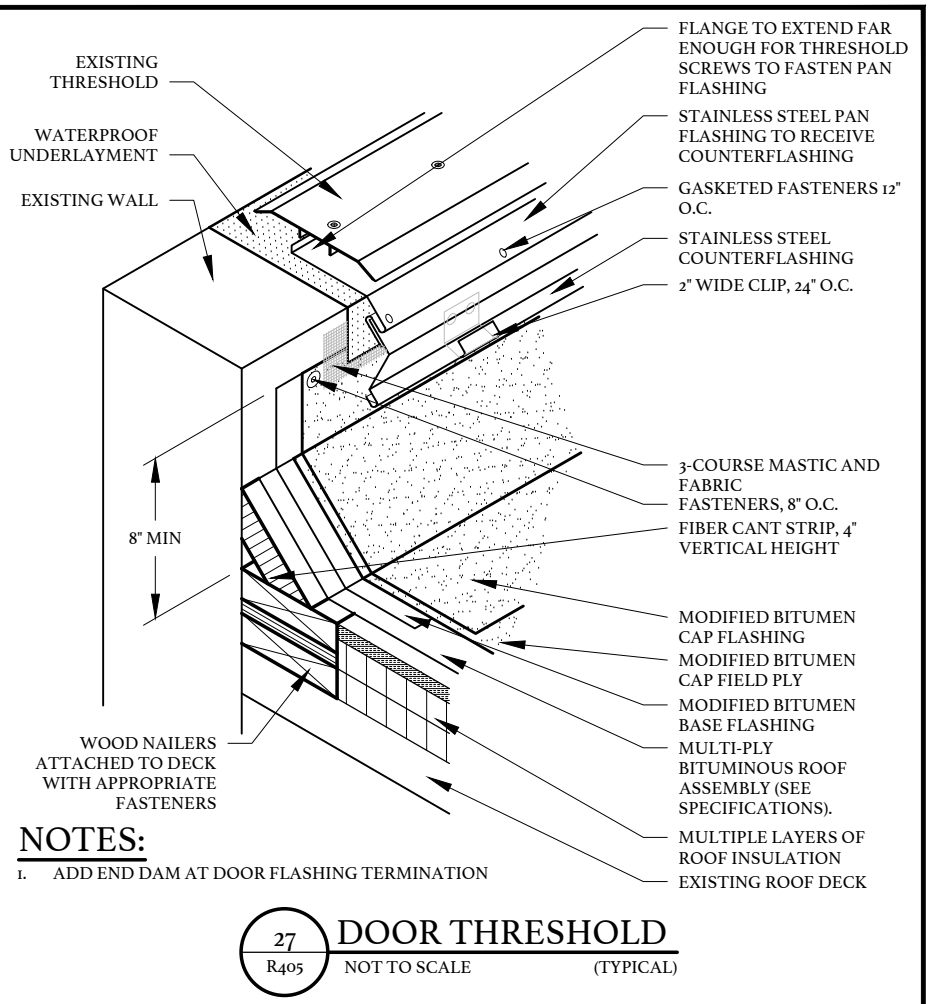
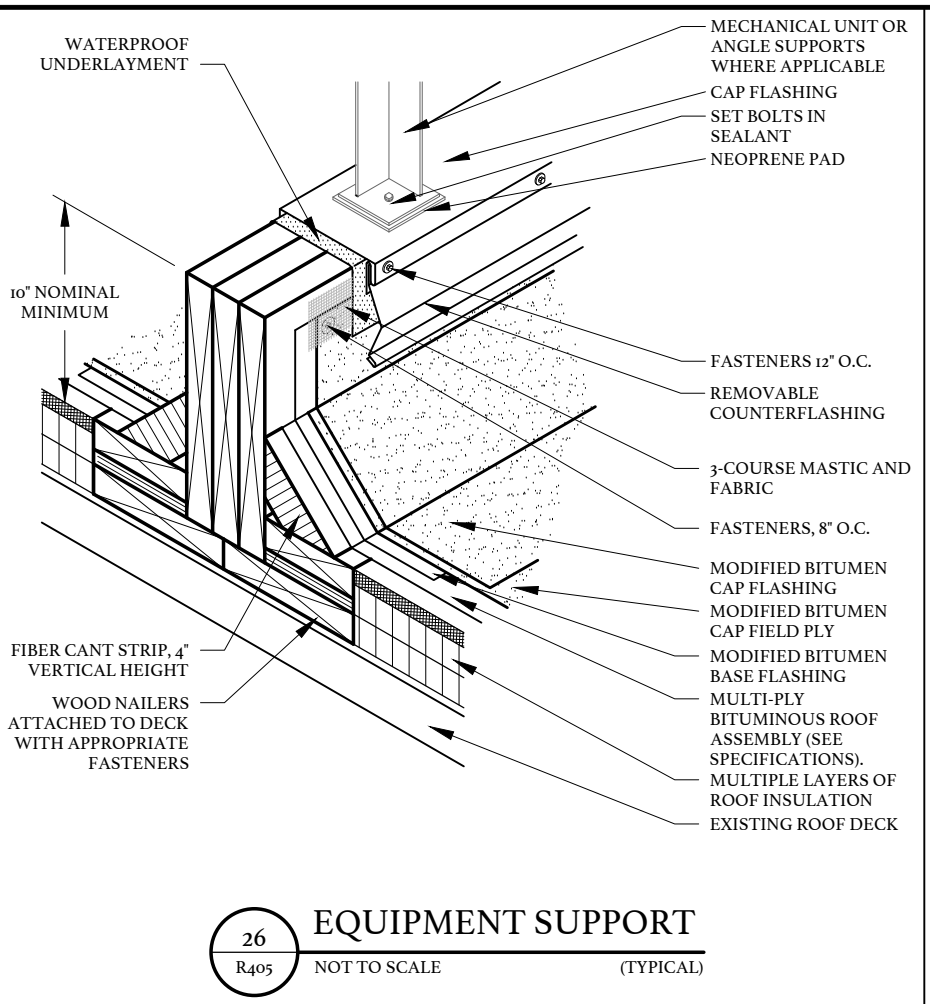
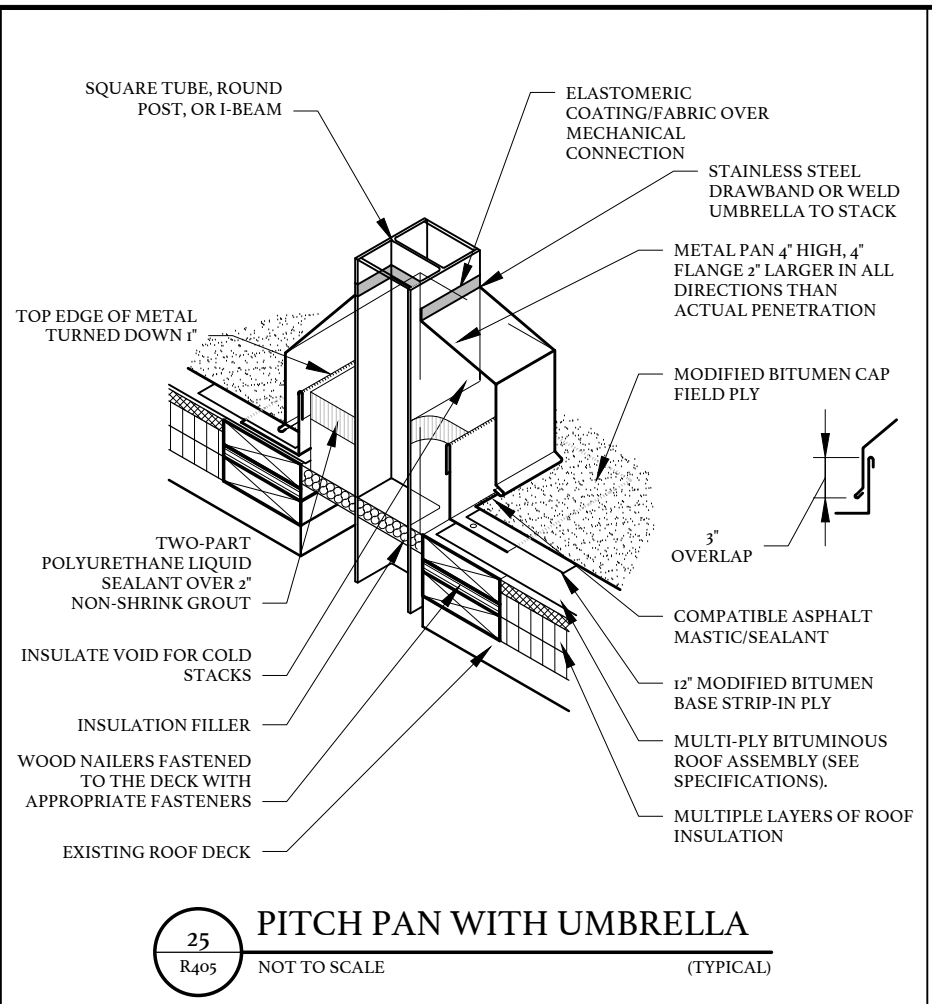
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MYRTLE BEACH, SOUTH CAROLINA

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

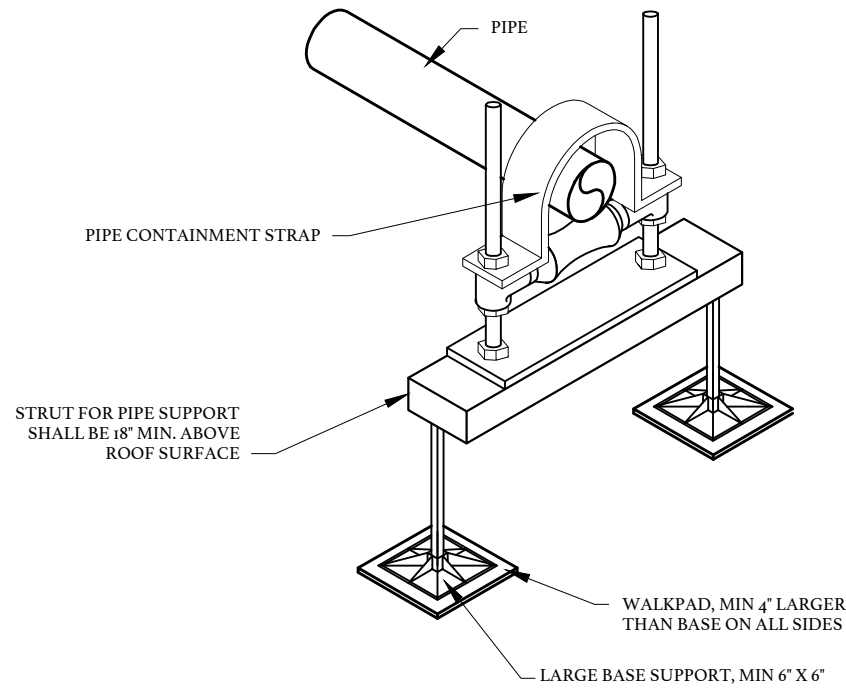
OWNER PROJECT NUMBER: H59-0229-PD
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MYRTLE BEACH, SOUTH CAROLINA

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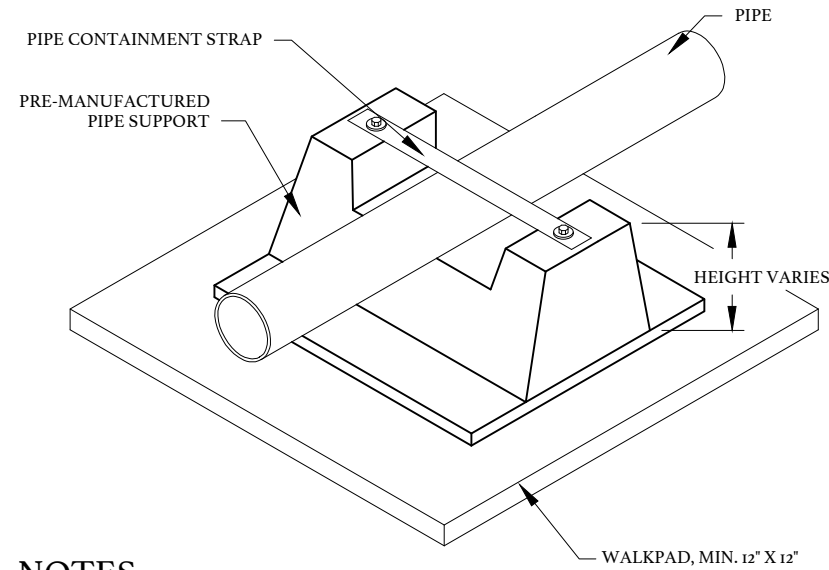


NOTES:

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 ($\geq 2"$ \varnothing)
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.

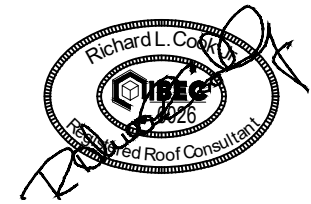
32
R406

PREFABRICATED CONDUIT/PIPE SUPPORT WITH PAD ($< 2"$ \varnothing)
NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

33
R406

NOT USED



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

OWNER PROJECT NUMBER: H59-0229-PD
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CHECKED:	JCG
DRAWN:	KAM
REVISION:	

DETAILS / SECTIONS

R406

INTENTIONALLY LEFT BLANK

34
R406

NOT USED

INTENTIONALLY LEFT BLANK

35
R406

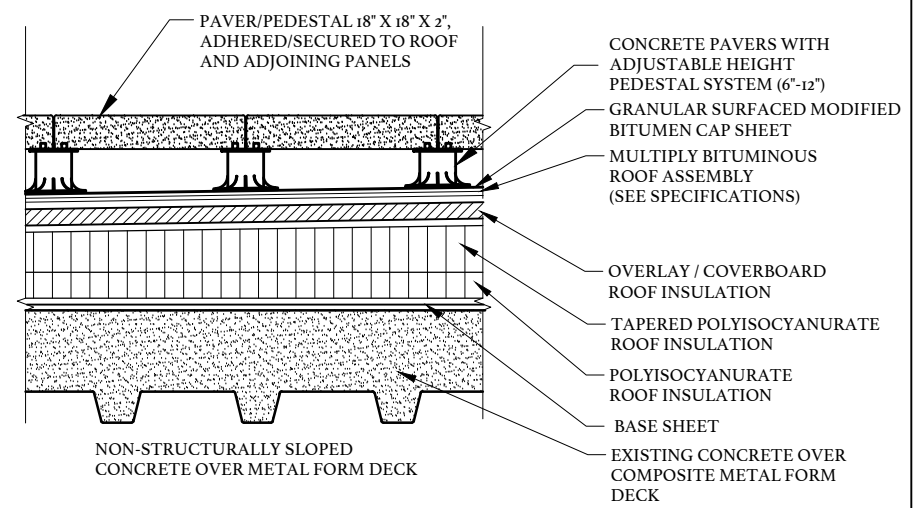
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36
R406

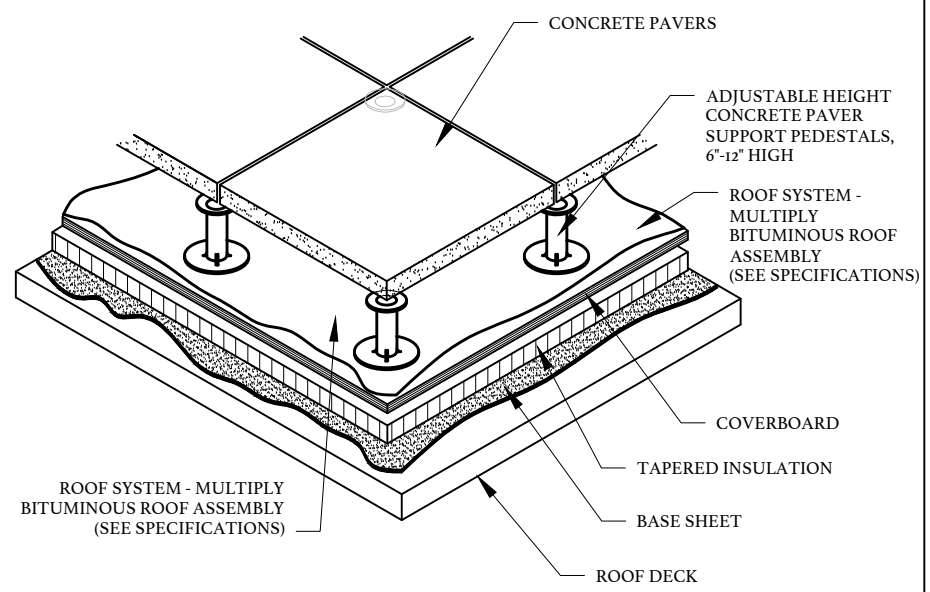
NOT USED

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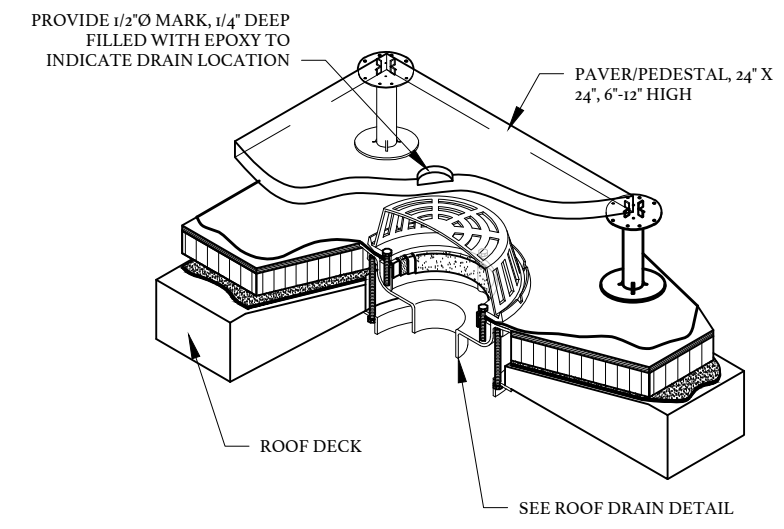


NOTES:
 1. SYSTEM TO BE DESIGNED PER ASCE 7-22 AND ADHERE TO ANSI/SPRI RP.4.

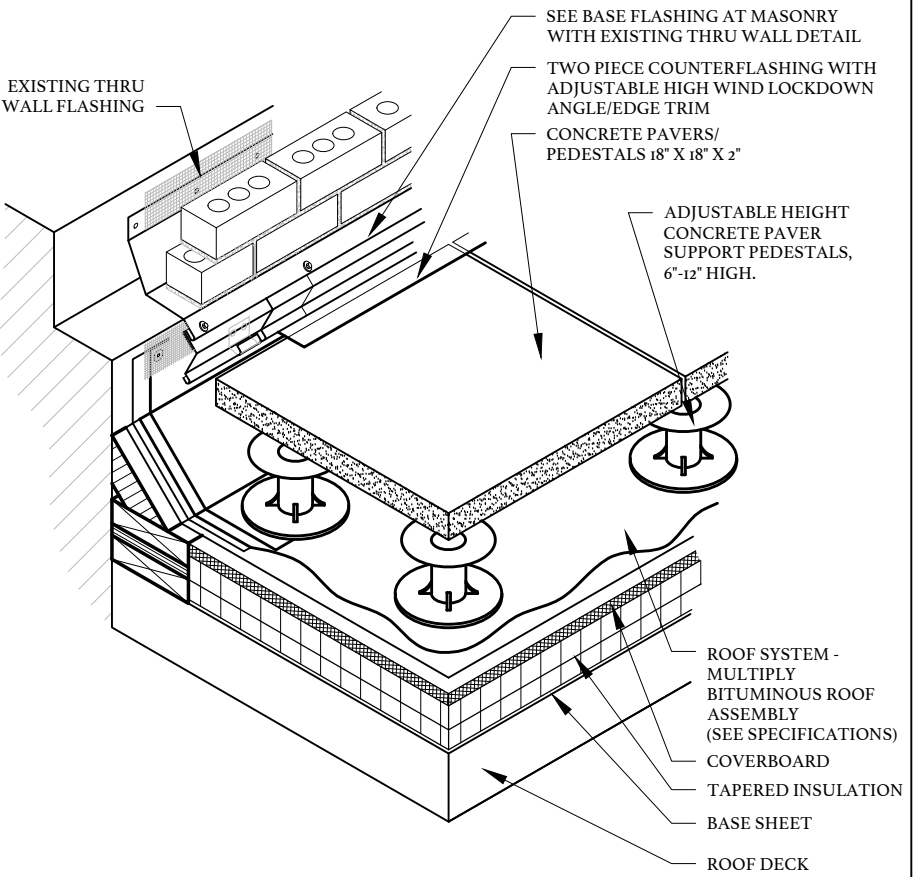
1 CONCRETE PAVER/ROOF ASSEMBLY
 R500 NOT TO SCALE (TYPICAL)



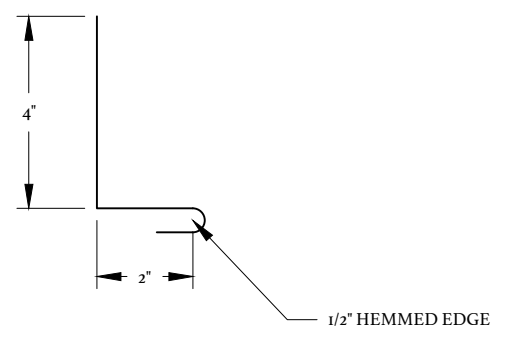
2 CONCRETE PAVER/ROOF SYSTEM
 R500 NOT TO SCALE (TYPICAL)



3 CONCRETE PAVER W/ ROOF DRAIN ASSEMBLY
 R500 NOT TO SCALE (TYPICAL)

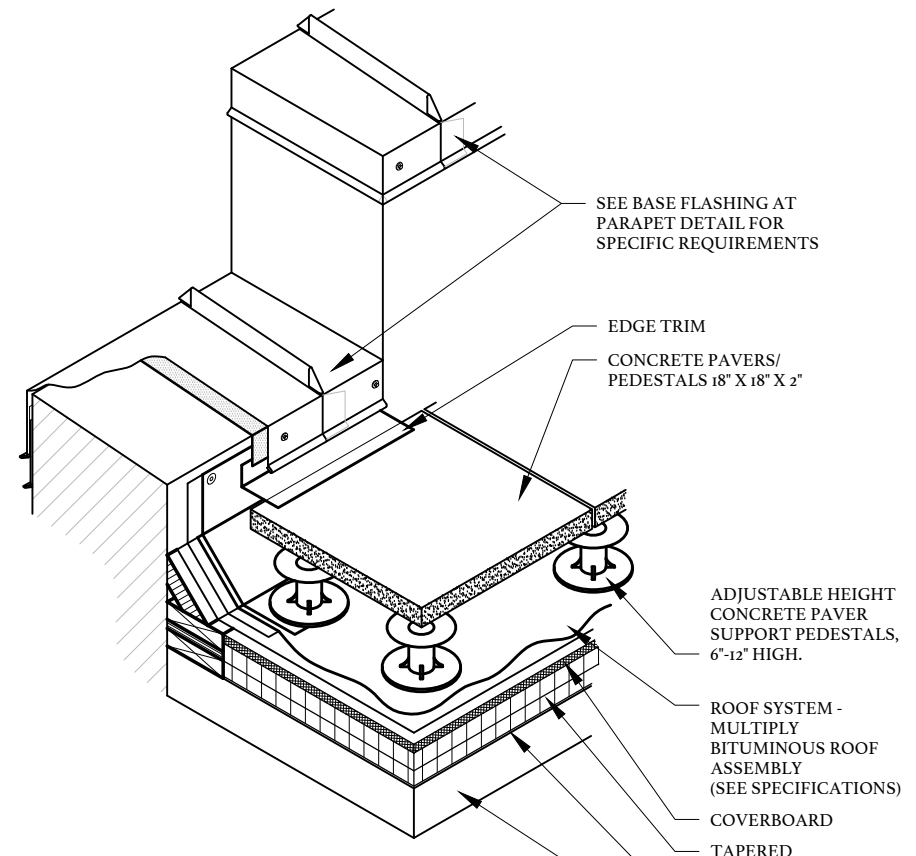


4 PAVER PEDESTAL AT WALL
 R500 NOT TO SCALE (TYPICAL)

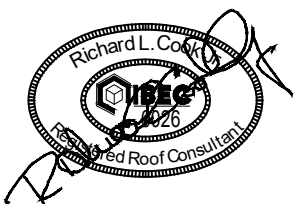


NOTE:
 1. METAL COLOR/FINISH TO MATCH ADJACENT METAL SURFACE.

5 PAVER PEDESTAL EDGE TRIM
 R500 NOT TO SCALE (TYPICAL)



6 PAVER PEDESTAL AT COPING
 R500 NOT TO SCALE (TYPICAL)



HORRY-GEORGETOWN TECHNICAL COLLEGE
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:	

PAVER DETAILS / SECTIONS

R500

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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
 E0S 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

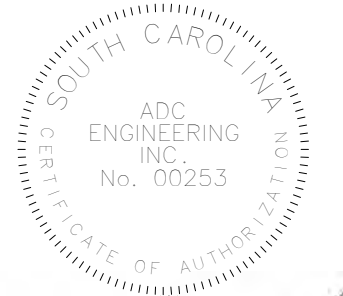
W WEST
 W/ WITH
 W/O WITHOUT
 WP WORK POINT
 WT WEIGHT
 WWF WELDED WIRE FABRIC
 WWM WELDED WIRE MESH
 WWR WELDED WIRE REINFORCEMENT

DRAWING LIST	
SHEET NUMBER	SHEET NAME
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
REPAIR/REPLACE ROOFING SYSTEMS
 GRAND STRAND CAMPUS
 OWNER PROJECT NUMBER: H59-6229-PD
 BEE PROJECT NUMBER: 23010C
 743 HEMLOCK AVE
 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: 03/12/2024
 ADC PROJECT #: 23291
 DESIGNED: CJG
 CHECKED: CJG
 DRAWN: SAC
 REVISION:

ABBREVIATIONS
S001
 SHEET 34 OF 39

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_s = 0.319
S₁ = 0.116
S_{ds} = 0.329
S_{d1} = 0.183
SITE CLASS: "D" (DEFAULT)
BUILDING RISK CATEGORY: "III"
IMPORTANCE FACTOR: I_e = 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_d = N/A
SYSTEM OVERSTRENGTH FACTOR: OMEGA = N/A

ALLOWABLE INTERSTORY DRIFT: 0.02 H_{sx}

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_d = 0.85
TOPOGRAPHIC FACTOR: K_{zt} = 1.0
VELOCITY EXPOSURE COEFFICIENT: K_z = 0.62
GROUND ELEVATION FACTOR: K_e = 1.0
VELOCITY PRESSURE: q = 32.83 psf (ULT)
q = 19.70 psf (ASD)

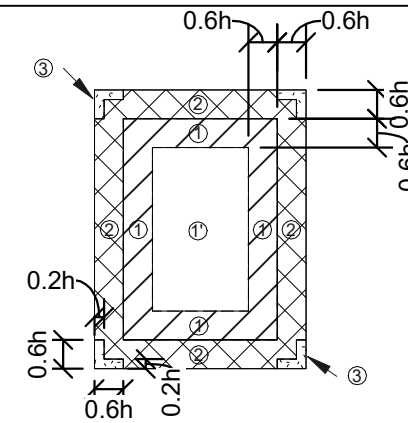
INTERNAL PRESSURE COEFFICIENT: G_{Cpi} = +/- 0.18

ALLOWABLE INTERSTORY DRIFT: 0.0025 H_{sx}

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

ASD PRESSURES

DESCRIPTION	AREA SF	ZONE	MAX P PSF	MIN P 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
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
OWNER PROJECT NUMBER: H59-6229-PD
BEE PROJECT NUMBER: 23010C
743 HEMLOCK AVE
MYRTLE BEACH, SOUTH CAROLINA

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

SOUTH CAROLINA
ADC ENGINEERING INC.
No. 00253
CERTIFICATE OF AUTHORIZATION

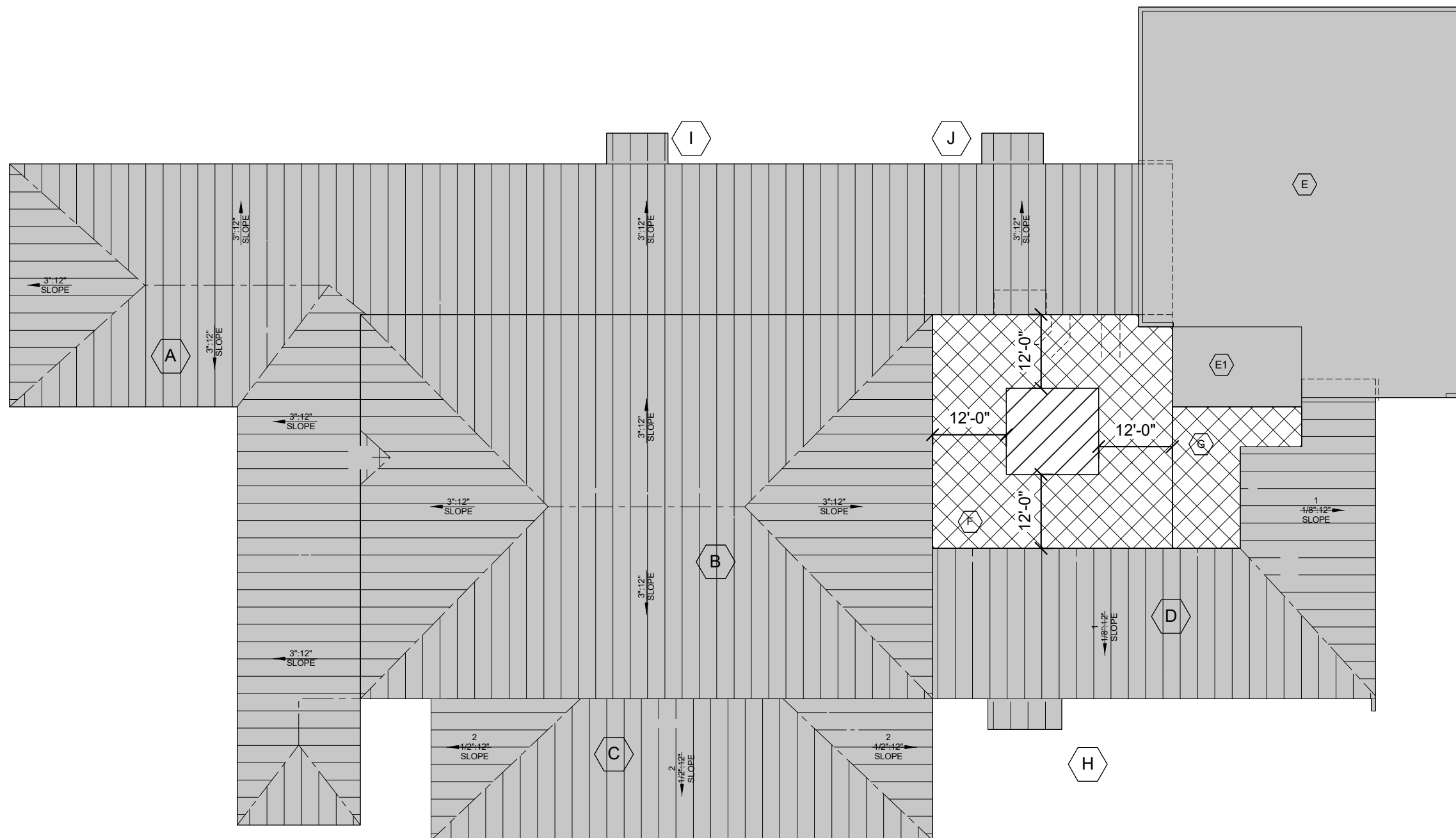
SOUTH CAROLINA
CHRISTOPHER J. GILGER
No. 28196
3-2-24
LICENSED PROFESSIONAL ENGINEER

DATE: 03/12/2024
ADC PROJECT #: 23291
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 300 - DESIGN CRITERIA S3-002

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- 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

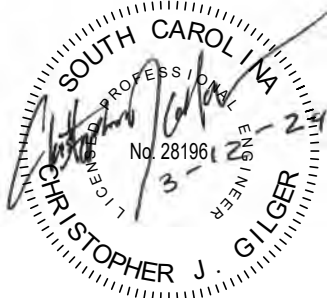
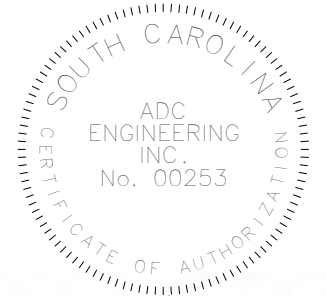
1 BUILDING 300
1" = 20'-0"

KEYED NOTES (THIS SHEET ONLY)

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
 OWNER PROJECT NUMBER: H59-6229-PD
 BEE PROJECT NUMBER: 23010C
 743 HEMLOCK AVE
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 HANAHAN, SC 29410
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The **BUILDING ENVELOPE ENCLOSURE** Group
 1226 YEAMANS HALL ROAD, STE C
 HANAHAN, SC 29410



DATE:	03/12/2024
ADC PROJECT #:	23291
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 300 - WIND PRESSURE DIAGRAM
S3-101

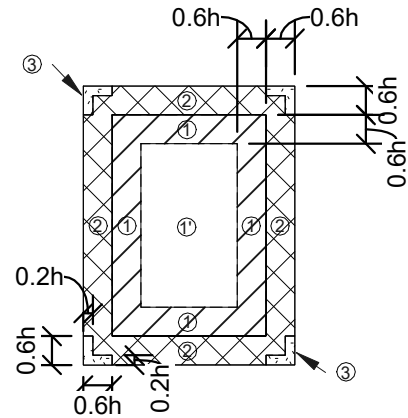
STRUCTURAL DESIGN CRITERIA

(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)

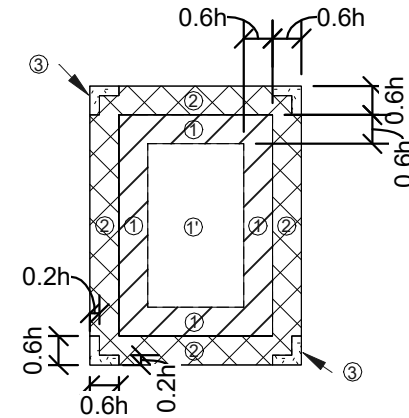
INTERNAL PRESSURE COEFFICIENT: $GC_{pi} = +/- 0.18$

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

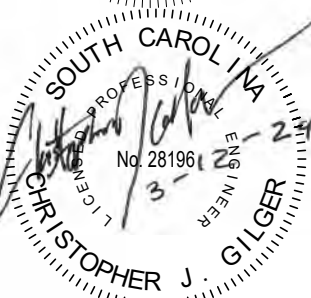
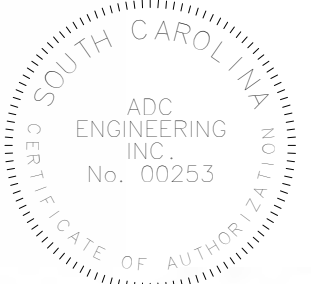
Components and Cladding Wind Pressures For C Roofs (Factored/ASD): ZONES: C				
ASD PRESSURES				
DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-22.45
ROOF FIELD	20	1'	9.60	-22.45
ROOF FIELD	50	1'	9.60	-22.45
ROOF FIELD	100	1'	9.60	-22.45
ROOF FIELD EDGE	10	1	9.60	-42.40
ROOF FIELD 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
 REPAIR/REPLACE ROOFING SYSTEMS
 GRAND STRAND CAMPUS
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The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C
 HANAHAN, SC 29410



DATE: 03/12/2024

ADC PROJECT #: 23291

DESIGNED: CJG

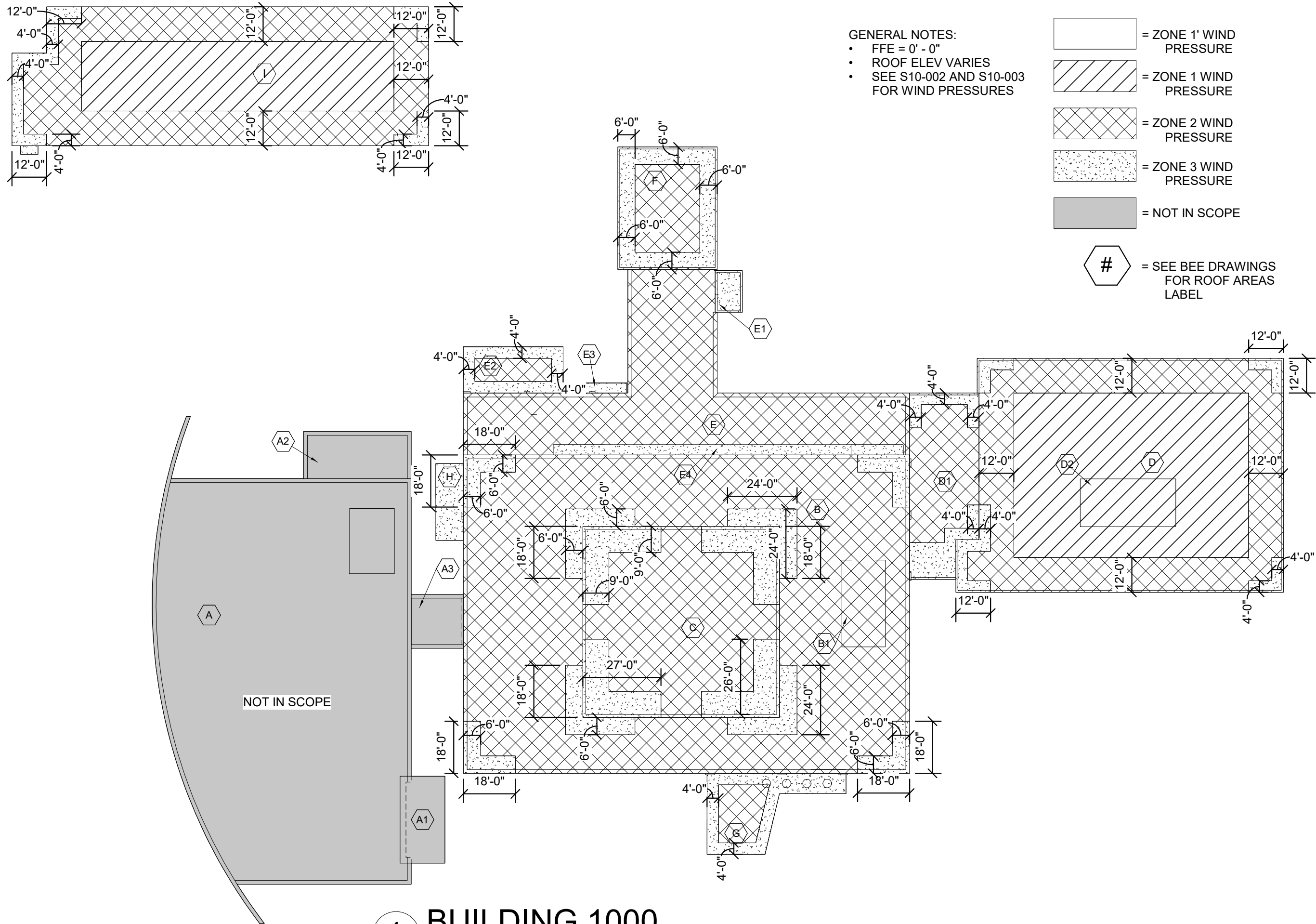
CHECKED: CJG

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REVISION:

BUILDING 1000 - DESIGN CRITERIA S10-003

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GENERAL NOTES:

- FFE = 0' - 0"
- ROOF ELEV VARIES
- SEE S10-002 AND S10-003 FOR WIND PRESSURES

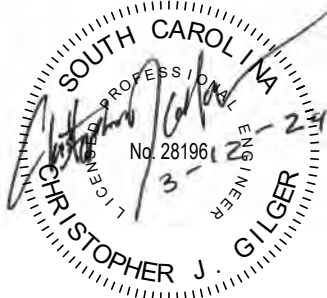
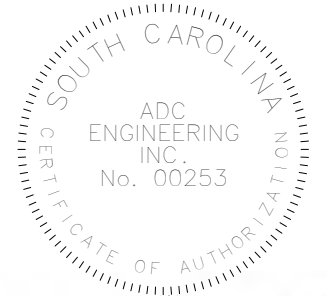
- = ZONE 1' WIND PRESSURE
- = ZONE 1 WIND PRESSURE
- = ZONE 2 WIND PRESSURE
- = ZONE 3 WIND PRESSURE
- = NOT IN SCOPE
- = SEE BEE DRAWINGS FOR ROOF AREAS LABEL

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

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
GRAND STRAND CAMPUS
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BUILDING 1000 - WIND PRESSURE
S10-101