REPAIR/REPLACE ROOFING SYSTEMS CONWAY CAMPUS BUILDINGS 200, 500, 600, 700, 800, 900, AND 1100

BEE PROJECT NUMBER: 23010A

OWNER PROJECT NUMBER: H59-6227-PD

2050 HWY 501 E

CONWAY, SOUTH CAROLINA

HORRY GEORGETOWN TECHNICAL COLLEGE

DETAILS/SECTION IDENTIFIER

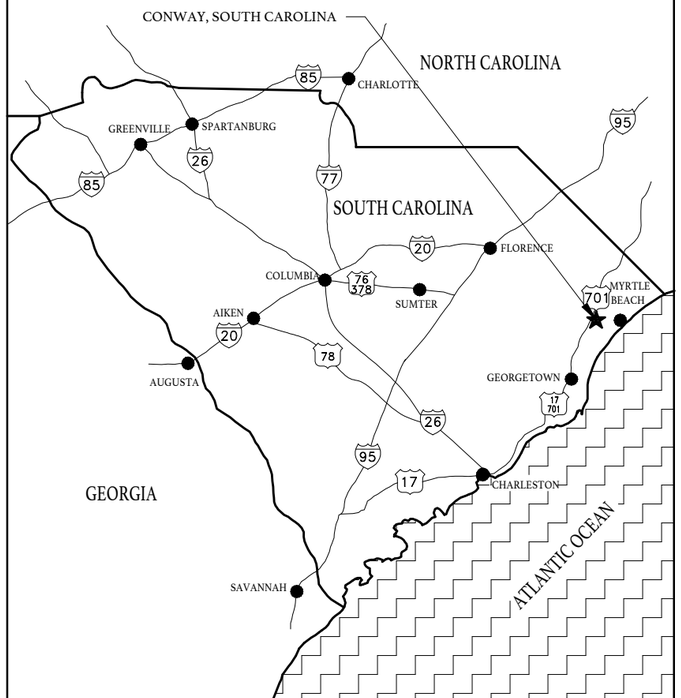
1 — DETAIL/SECTION LABEL

R201 — SHEET SHOWN ON

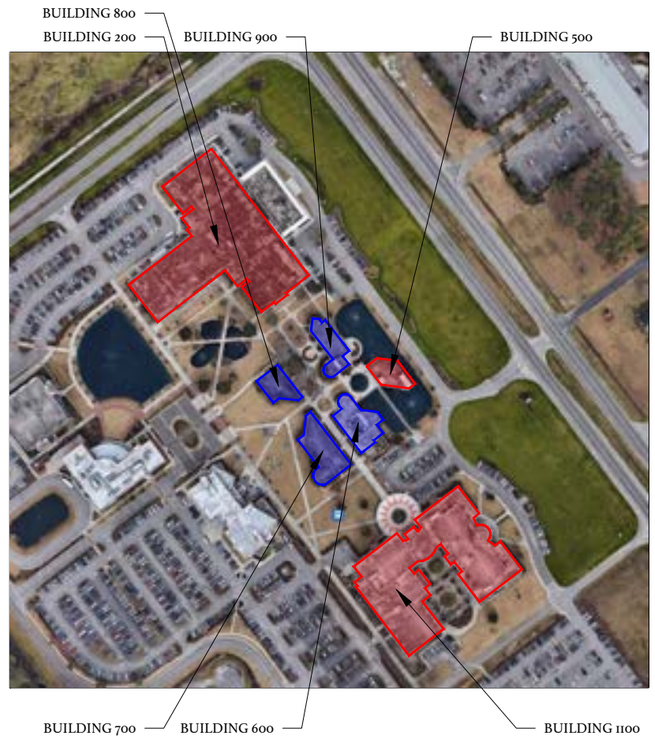
DRAWING INDEX

LEGEND

XR-1	SAMPLE TAKEN, R=ROOF F=FLASHING S=SPIKE
	ROOF AREA / LEVEL
	LOCATION OF SAMPLE CORE
XXX	ROOF AREA SYMBOL
XX":XX" SLOPE	SLOPE INDICATOR
RD	ROOF DRAIN
OF	OVERFLOW SCUPPER
CH/SP	THRU WALL SCUPPER W/ CONDUCTOR HEAD TO SPLASH PAN
VTR	THRU WALL SCUPPER
GN	VENT THRU ROOF
	GOOSENECK PIPE PENETRATION
	PITCH PAN
	PITCH PAN WITH PIPE PENETRATION
	EQUIPMENT SUPPORT ON PITCH PANS
	EQUIPMENT SUPPORT ON PIPE PENETRATIONS
UNIT	MECHANICAL UNIT
V	VENTILATOR
U	MECHANICAL UNIT
C	CAPPED CURB
	ROOF PENETRATION
	ROOF ACCESS HATCH
	VENTILATOR
	STACK
	STACK ON CURB
GN	GOOSE NECK
	MECHANICAL UNIT ON EQUIPMENT SUPPORTS
	UNIT ON WOODEN EQUIPMENT SUPPORTS
	EQUIPMENT SUPPORTS
	WOODEN EQUIPMENT SUPPORTS
	SATELLITE DISH ON PITCH PANS
	SATELLITE DISH
C	CAMERA POLE MOUNTED TO ROOF WITH C-CHANNEL BRACKETS
	PARAPET WALL
	RAISED METAL EDGE
RME	RAISED METAL EDGE
EJ	EXPANSION JOINT
AD	AREA DIVIDER
GL	GAS LINE
CL	CONDENSATE LINE
E	ELECTRICAL LINE
	LADDER
	METAL ROOF
	REPAIR AREA



VICINITY MAP



BUILDING LOCATION MAP

The BUILDING ENVELOPE ENCLOSURE Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

Richard L. Cook IV — RRC 4026 — Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

COVER SHEET

R100

SHEET 1 OF 85

CONSTRUCTION DOCUMENTS

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 AND REPLACEMENT FOR BUILDING 200 (AREAS A, B, C, D, E, AND F) AND BUILDINGS 500, 600, 700, 800 AND 900. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY, GRANULAR-SURFACED, MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED. REMOVAL OF MINOR, NON-FRIABLE ASBESTOS CONTAINING MATERIALS IS INCLUDED FOR THE MASTICS/COATINGS FOR BUILDING 200 AT VARIOUS PENETRATIONS ON ALL ROOF AREAS. BASE BID WORK ALSO INCLUDES MAINTENANCE AND REPAIRS TO BUILDING 200, AREAS E1 AND F1 AND BUILDING 1100, AREAS, A, A1, A2, A3, B, C, E, F AND G.

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. REMOVAL OF MINOR, NON-FRIABLE ASBESTOS CONTAINING MATERIALS IS INCLUDED FOR THE MASTICS/COATINGS (WHITE COATINGS) FOR BUILDING 200 AT VARIOUS PENETRATIONS ON ALL ROOF AREAS IN ACCORDANCE WITH SECTION 02 82 16, ENGINEERING CONTROL OF NON-FRIABLE ASBESTOS CONTAINING ROOFING MATERIALS.
3. MINOR DECK REPAIRS IN ACCORDANCE WITH SECTION 03 60 01, CONCRETE GROUT REPAIR.
4. MODIFICATIONS AND REPAIRS TO LIGHTWEIGHT INSULATING CONCRETE/GYPSUM IN ACCORDANCE WITH SECTION 03 52 00, LIGHTWEIGHT INSULATING CONCRETE/GYPSUM DECK REPAIR.
5. MODIFICATIONS AND REPAIRS TO METAL FORM DECK SYSTEMS IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR.
6. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
7. ROOF REPAIRS IN ACCORDANCE WITH SECTION 07 50 00, GENERAL ROOF REPAIRS/MAINTENANCE.
8. ROOF MEMBRANE, INSULATION, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 55 27, ROOF REPLACEMENT MODIFIED BITUMEN SHEET ROOFING SYSTEM.
9. SHEET METAL, COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 60 00, SHEET METAL.
10. OPTIONAL PRE-MANUFACTURED ACCESSORIES SPECIFIED OR AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SECTION 07 72 00, ROOF ACCESSORIES.
11. ROOF DRAIN REPAIRS IN ACCORDANCE WITH SECTION 07 73 15, ROOF DRAIN REPAIRS/MODIFICATIONS.
12. 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 THE ROOF REPLACEMENT IN LIEU OF THE MAINTENANCE AND REPAIRS FOR BUILDING 1100, AREAS A, A1, A2, A3, B, C, AND D.

1. SEE SPECIFICATION SECTIONS NOTED ABOVE.

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. REMOVAL OF ASBESTOS CONTAINING ROOFING MATERIALS, FLASHINGS, CEMENTS, MASTICS AND COATINGS IS REQUIRED. REFER TO CORE SAMPLE DATA AND SECTION 02 82 16.
8. 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.
9. 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.

ABBREVIATIONS

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

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Richard L. Cook, Jr. — Registered Roof Consultant — 026

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

GENERAL NOTES

R101

SHEET 2 OF 85

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 200 AREAS A, B, C, D, E, & F AND
ROOF MAINTENANCE/REPAIRS TO AREAS E1 & F1

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

BASE BID MAINTENANCE/REPAIRS
BUILDINGS 1100 AREAS A, A1, A2, A3, B, C, E, F, & G
ALTERNATE #1 TOTAL ROOF REPLACEMENT ROOF
AREAS A, A1, A2, A3, B, C, & D IN LIEU OF
MAINTENANCE/REPAIRS

CONWAY CAMPUS
AERIAL PLAN

The BUILDING ENVELOPE ENCLOSURE Group
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RRC 4026
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
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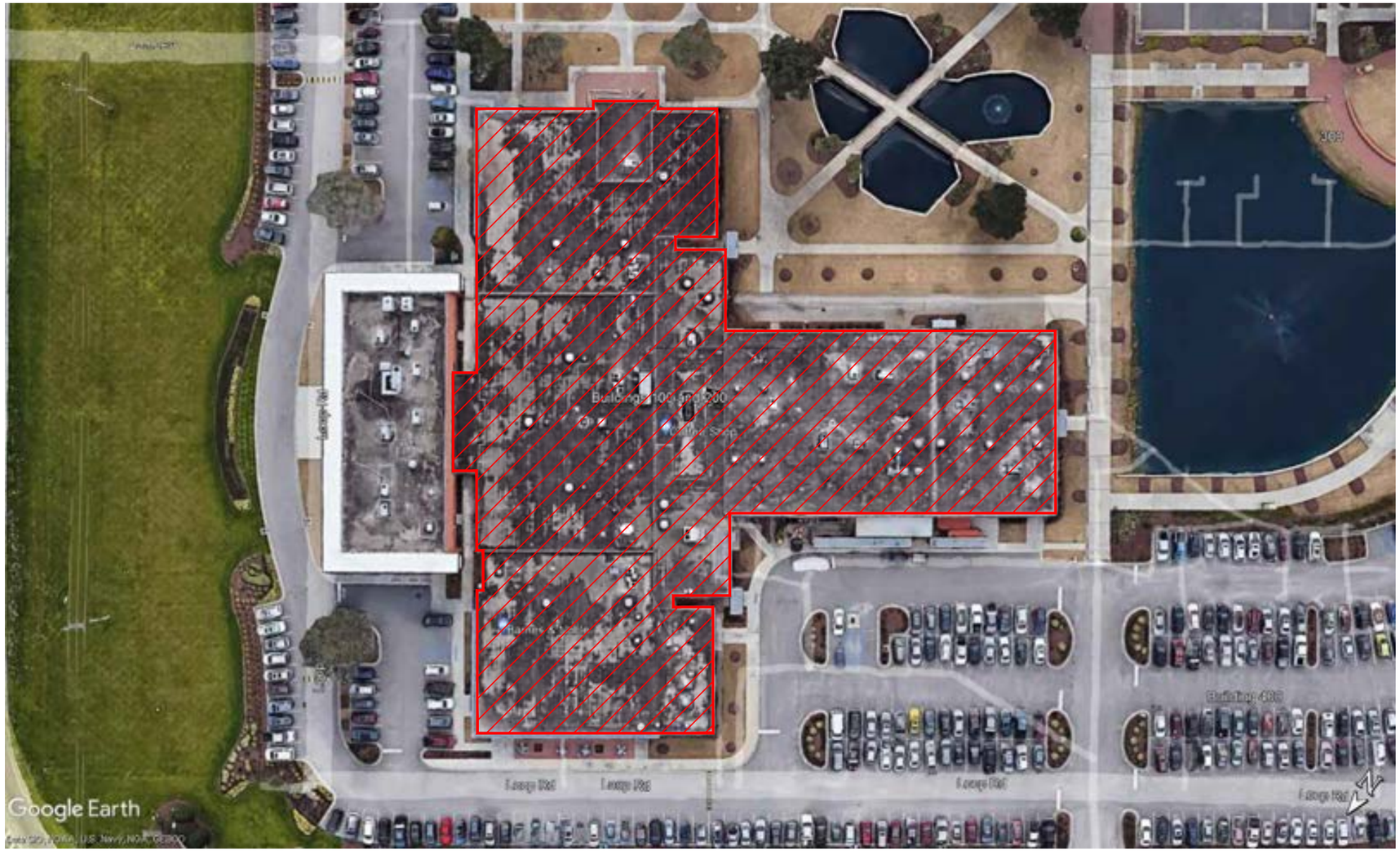
CONWAY CAMPUS
AERIAL PLAN

R102

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT BUILDINGS 200 AREAS A, B, C, D, E, & F AND ROOF MAINTENANCE/REPAIRS TO AREAS E1 & F1



PLAN NORTH

BUILDING 200
AERIAL PLAN

CONSTRUCTION DOCUMENTS

The BUILDING ENVELOPE ENCLOSURE Group
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

OWNER PROJECT NUMBER: H59-6227-PD
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2050 HWY 501 E
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DATE:	03/11/2024
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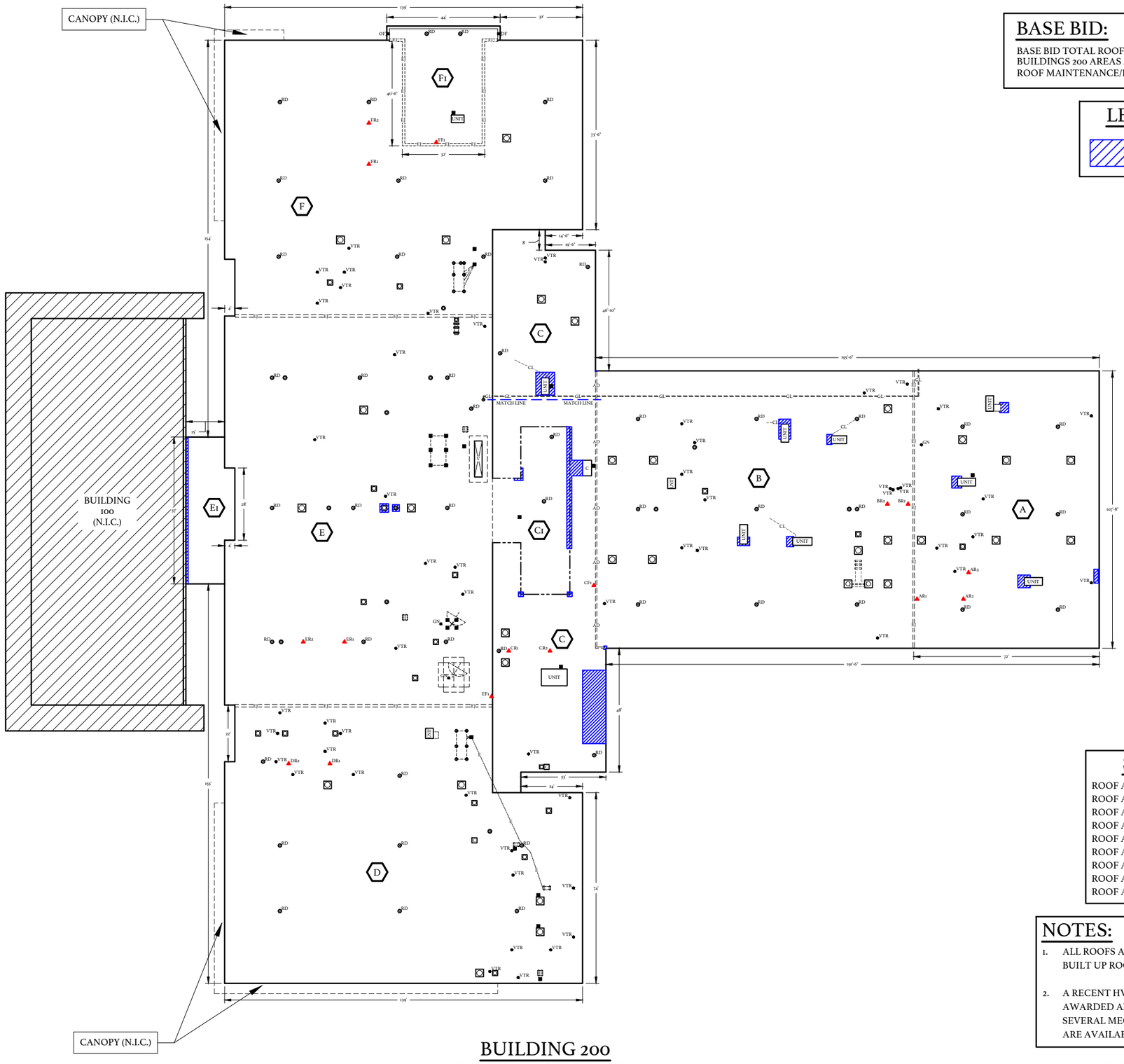
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 200
AERIAL PLAN

R201

SHEET 4 OF 85



BASE BID:

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 200 AREAS A, B, C, D, E, & F AND
ROOF MAINTENANCE/REPAIRS TO AREAS E1 & F1

LEGEND

REPAIR AREA

SQS

ROOF AREA A: 78 SQS
ROOF AREA B: 132 SQS
ROOF AREA C: 71 SQS
ROOF AREA C1: 15 SQS
ROOF AREA D: 137 SQS
ROOF AREA E: 156 SQS
ROOF AREA E1: 10 SQS
ROOF AREA F: 123 SQS
ROOF AREA F1: 14 SQS

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).
2. A RECENT HVAC PROJECT WAS AWARDED AND WILL REPLACE SEVERAL MECHANICAL UNITS. PLANS ARE AVAILABLE AT HGTC WEBSITE.

NOT TO SCALE

PLAN NORTH

BUILDING 200 OVERALL EXISTING PLAN

The BUILDING ENVELOPE ENCLOSURE Group
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
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CONWAY, SOUTH CAROLINA

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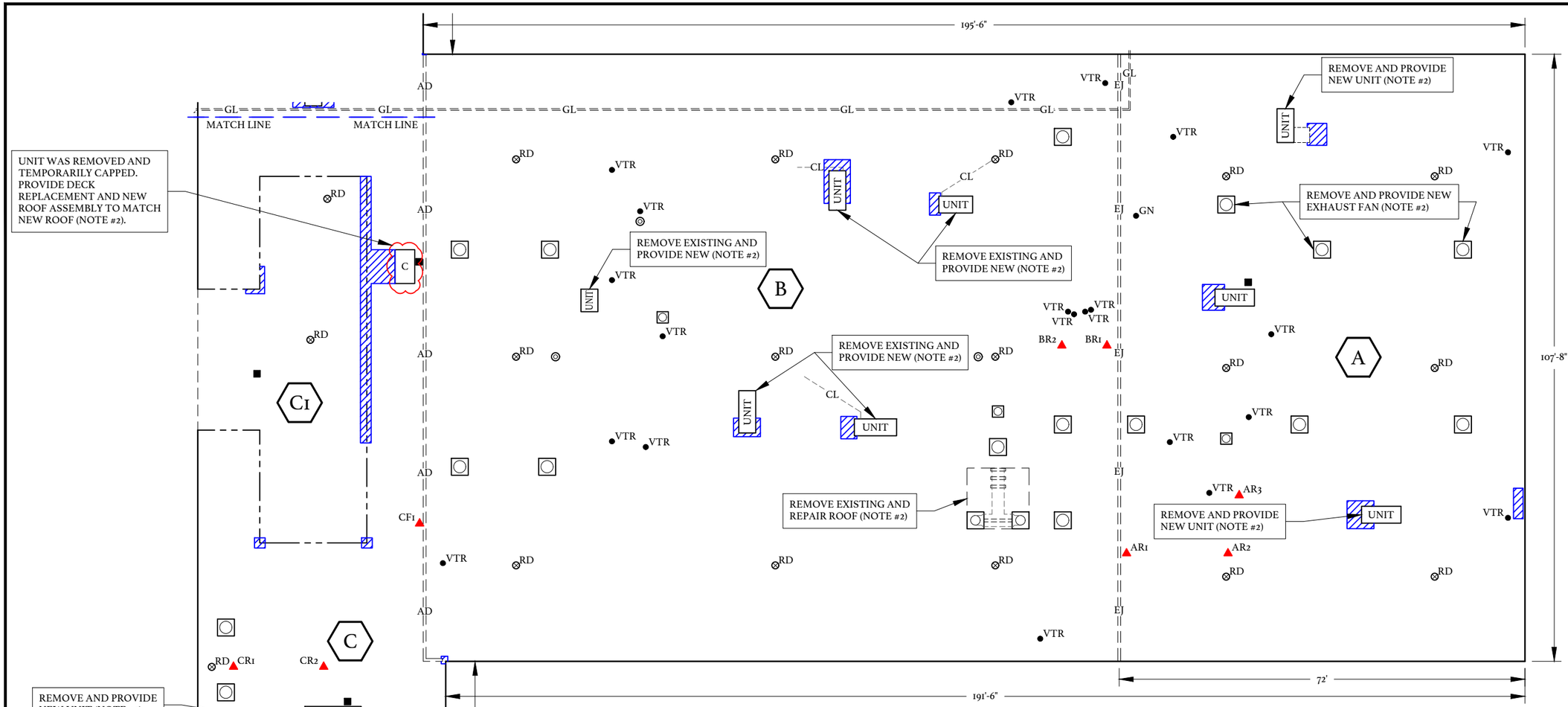
DESIGNED: RLC
CHECKED: JCG
DRAWN: KAM
REVISION:

BUILDING 200 OVERALL COMPLEX PLAN

R202

SHEET 5 OF 85

CONSTRUCTION DOCUMENTS



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
AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 1/2" METAL DECK TOTAL THICKNESS = 3 1/2"
AR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 2 3/4" METAL DECK TOTAL THICKNESS = 3"
AR3-	SAME AS AR1
BR1-	SAME AS AR1
BR2-	SAME AS AR1
CR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 1/4" METAL DECK TOTAL THICKNESS = 3 1/2"
CR2-	SAME AS CR1

NOTES:

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LEGEND

REPAIR AREA

PLAN NORTH

KEY PLAN

GRAPHIC SCALE 20' 10' 5' 0 10' 20' 40'

EXISTING ROOF PLAN AREAS A, B, C, & C1 BUILDING 200

CONSTRUCTION DOCUMENTS

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EXISTING ROOF PLAN AREAS A, B, C, & C1 BUILDING 200

R203

PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA B

PHOTO # 5
ROOF AREA B

PHOTO # 6
ROOF AREA B

PHOTO # 7
ROOF AREA C

PHOTO # 8
ROOF AREA C

PHOTO # 9
ROOF AREA C

PHOTO # 10
ROOF AREA C1

PHOTO # 11
ROOF AREA C1

PHOTO # 12
ROOF AREA C1

CONSTRUCTION DOCUMENTS

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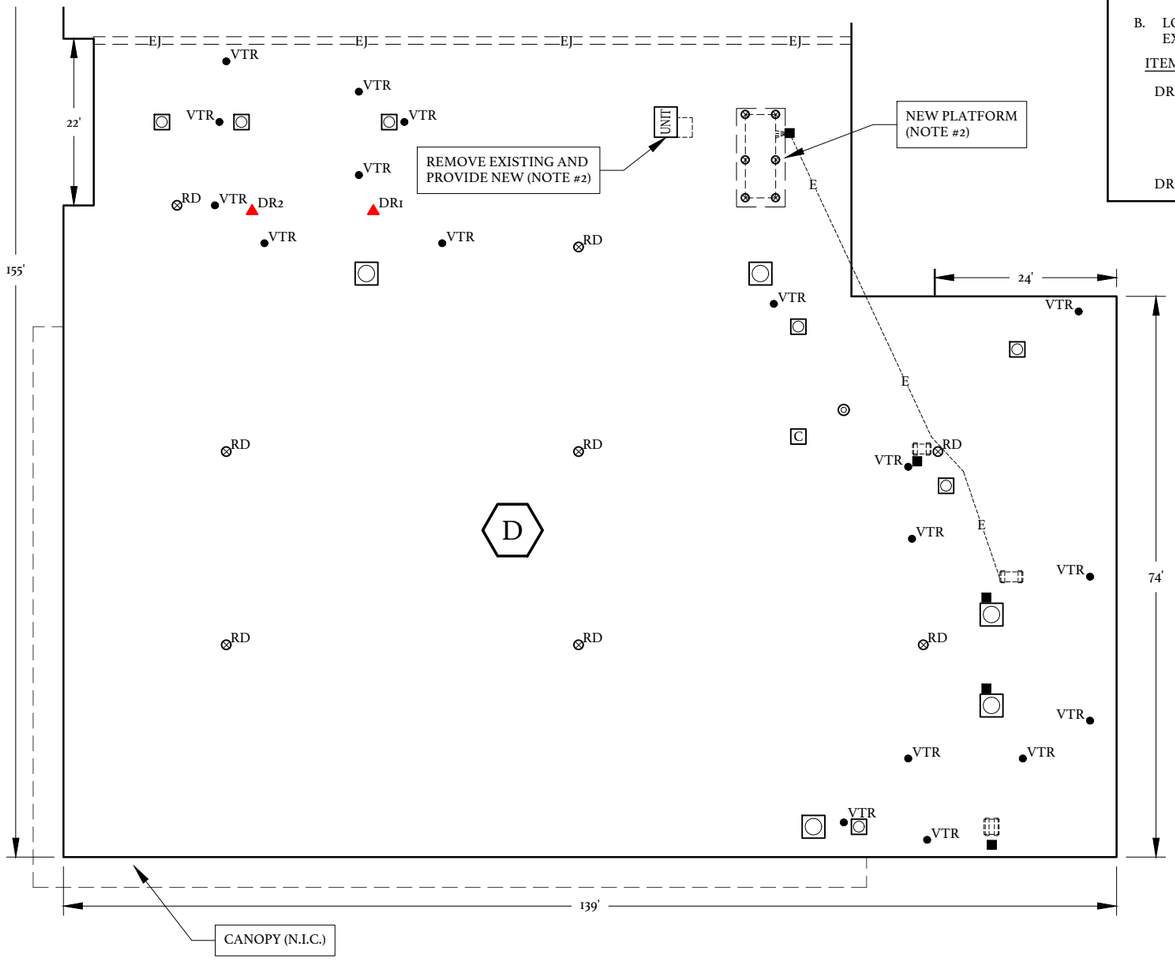
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS A, B, C, & C1 PHOTOGRAPHS BUILDING 200

R204

SHEET 7 OF 85



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" METAL DECK TOTAL THICKNESS = 3 1/2"
DR2-	SAME AS DR1

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).
2. A RECENT HVAC PROJECT WAS AWARDED AND WILL REPLACE SEVERAL MECHANICAL UNITS. PLANS ARE AVAILABLE AT HGTC WEBSITE.

EXISTING ROOF PLAN
AREA D
BUILDING 200

PLAN NORTH

KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
RRC 7026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN AREA D BUILDING 200

R205

SHEET 8 OF 85

CONSTRUCTION DOCUMENTS

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 D

PHOTO # 8
ROOF AREA D

PHOTO # 9
ROOF AREA D

PHOTO # 10
ROOF AREA D

PHOTO # 11
ROOF AREA D

PHOTO # 12
ROOF AREA D

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

Richard L. Cook
LEED AP
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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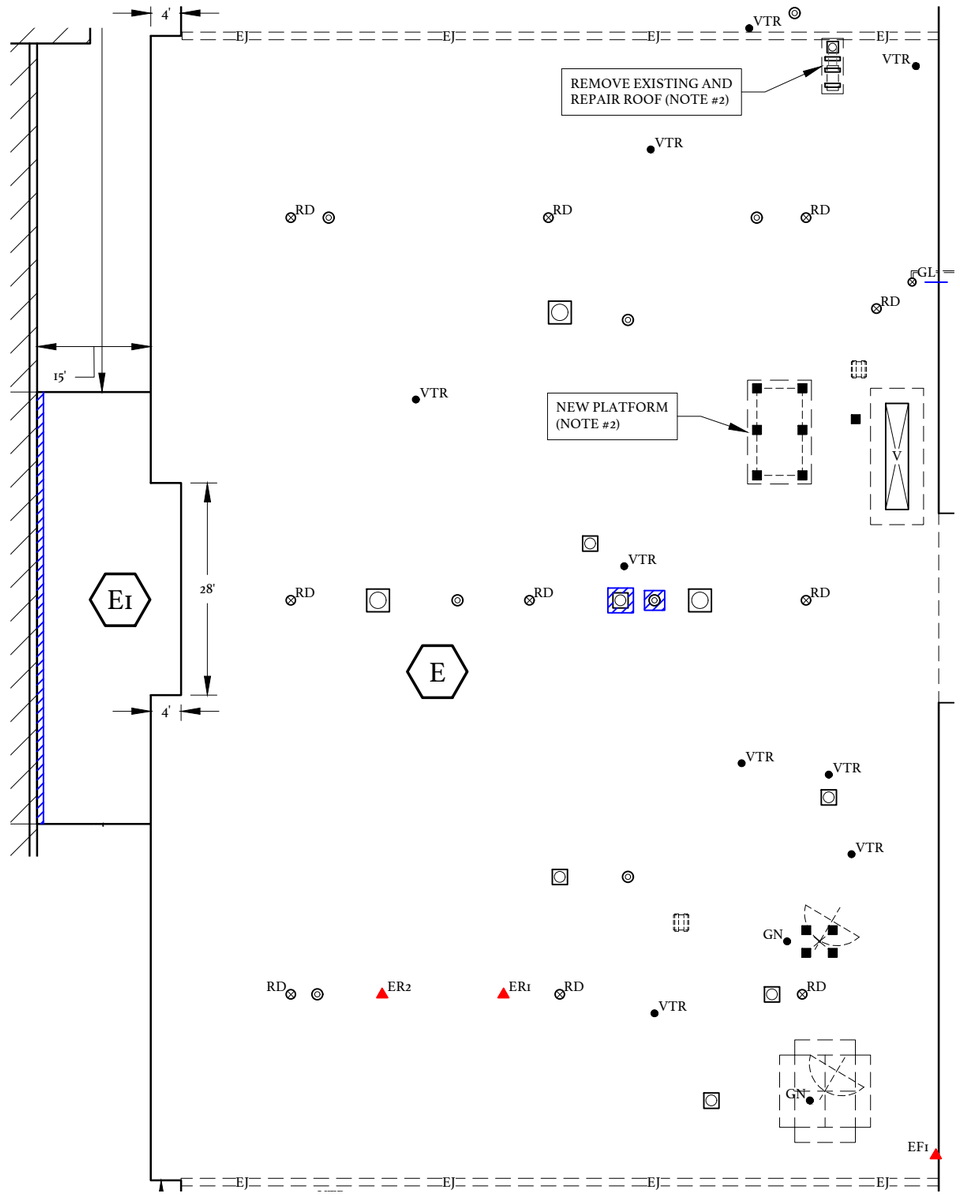
DRAWN:	KAM
REVISION:	

ROOF AREA D
PHOTOGRAPHS
BUILDING 200

R206

SHEET 9 OF 85

CONSTRUCTION DOCUMENTS



CORE SAMPLE SUMMARY

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

ITEM	DESCRIPTION
ER1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2" METAL DECK TOTAL THICKNESS = 3 1/2"
ER2-	SAME AS ER1

LEGEND

REPAIR AREA

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).
2. A RECENT HVAC PROJECT WAS AWARDED AND WILL REPLACE SEVERAL MECHANICAL UNITS. PLANS ARE AVAILABLE AT HGTC WEBSITE.

EXISTING ROOF PLAN
AREAS E & E1
BUILDING 200

PLAN NORTH

KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
LEED AP
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF
PLAN AREAS E & E1
BUILDING 200

R207

SHEET 10 OF 85

CONSTRUCTION DOCUMENTS

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 E1

PHOTO # 12
ROOF AREA E1

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
RRC 026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
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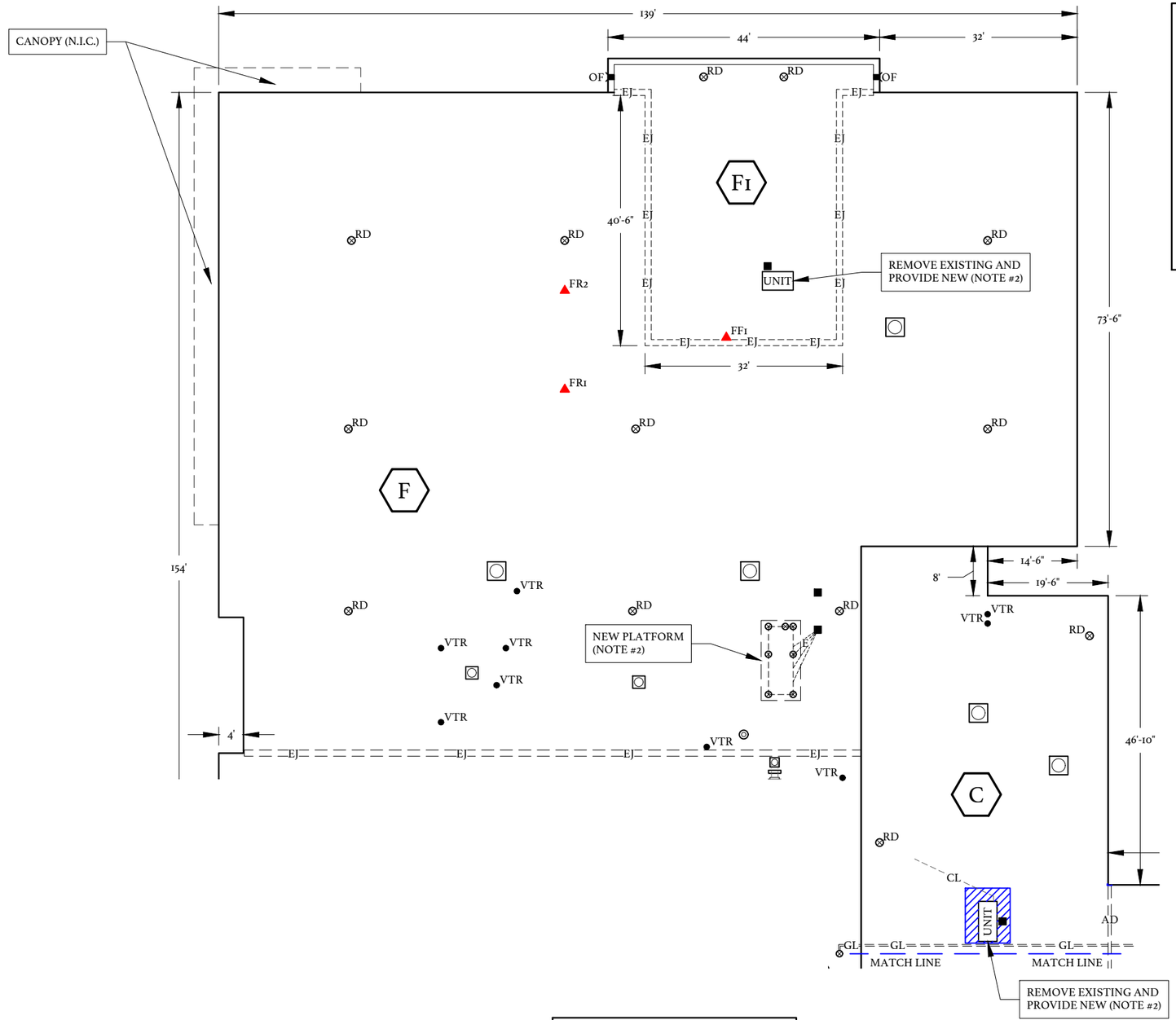
DRAWN:	KAM
REVISION:	

ROOF AREAS E & E1 PHOTOGRAPHS BUILDING 200

R208



CORE SAMPLE SUMMARY

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

ITEM	DESCRIPTION
FR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2" METAL DECK TOTAL THICKNESS = 3 1/2"
FR2-	SAME AS FR1

LEGEND

REPAIR AREA

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).
2. A RECENT HVAC PROJECT WAS AWARDED AND WILL REPLACE SEVERAL MECHANICAL UNITS. PLANS ARE AVAILABLE AT HGTC WEBSITE.

EXISTING ROOF PLAN
AREAS C, F, & F1
BUILDING 200

PLAN NORTH

KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
License No. 34026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN AREAS C, F, & F1 BUILDING 200

R209

SHEET 12 OF 85

CONSTRUCTION DOCUMENTS

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 F1

PHOTO # 8
ROOF AREA F1

PHOTO # 9
ROOF AREA F1

PHOTO # 10
ROOF AREA F1

PHOTO # 11
ROOF AREA F1

PHOTO # 12
ROOF AREA F1

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

Richard L. Cook
Registered Roof Consultant
12026

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE: 03/11/2024
BEE PROJECT #: 23010A
DESIGNED: RLC
CHECKED: JCG
DRAWN: KAM
REVISION:

ROOF AREAS
F & F1
PHOTOGRAPHS
BUILDING 200

R210

SHEET 13 OF 85

CONSTRUCTION DOCUMENTS

PROVIDE ADDITIONAL LAYER OF POLYISOCYANURATE INSULATION WITH JOINTS STAGGERED/OFFSET OVER PERIMETER AREAS FOR C1 TO BRING THE AREA EQUAL TO THE SURROUNDING AREA. ENSURE INSULATION IS STAGGERED PER DETAIL.

GL MATCH LINE

GL MATCH LINE

GL

GL

GL

AD

AD

AD

AD

AD

EJ

EJ

EJ

EJ

EJ

VTR

RD

CL

UNIT

TYP.

SIM.

GN

A

B

C

C1

30 R905

31 R906

14 R903

4 R901

33 R906

34 R906

1 R901

32 R906

41 R907

36 R906

25 R905

38 R907

45 R908

27 R905

15 R903

PLAN NORTH

NEW ROOF PLAN
AREAS A, B, C, & C1
BUILDING 200

KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

The BUILDING ENVELOPE ENCLOSURE Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

Richard L. Cook IV
License No. 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE

REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A

2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
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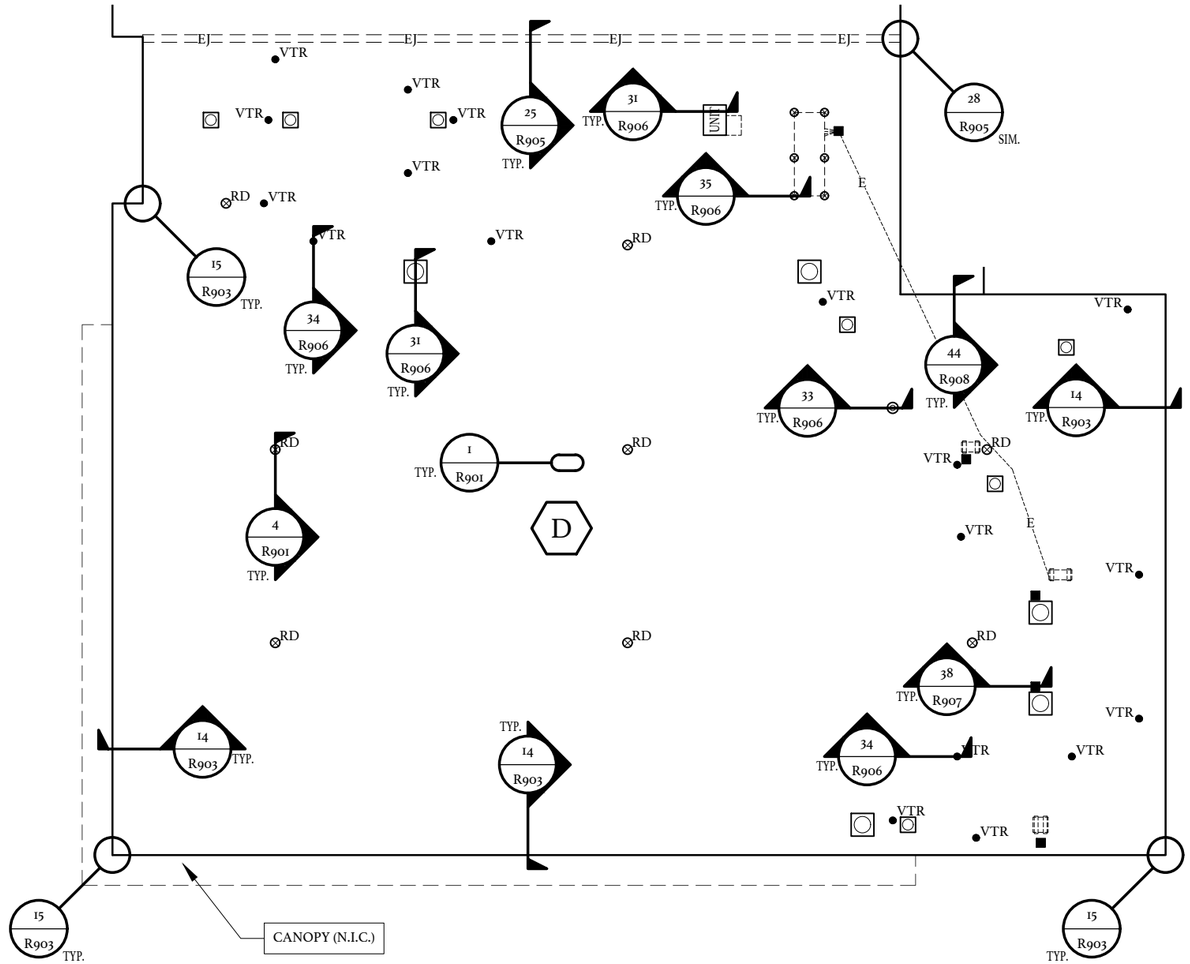
DRAWN:	KAM
REVISION:	

NEW ROOF
PLAN AREAS
A, B, C, & C1
BUILDING 200

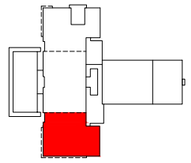
R211

SHEET 14 OF 85



PLAN NORTH

NEW ROOF PLAN
AREAS D
BUILDING 200



KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
NRCA
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

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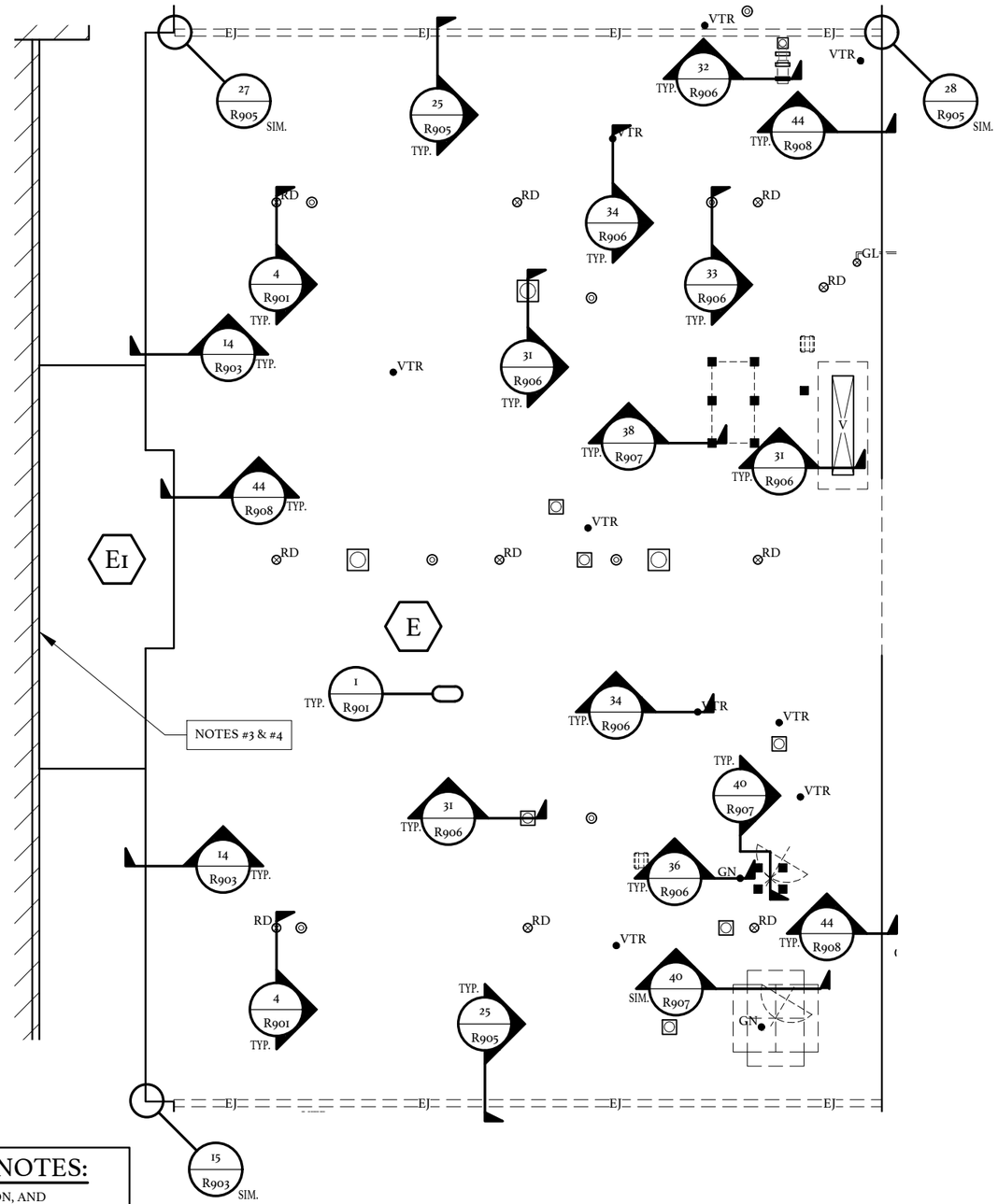
REVISION:	

NEW ROOF
PLAN AREA D
BUILDING 200

R212

SHEET 15 OF 85

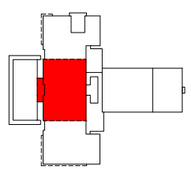


ROOF AREA E1 REPAIR NOTES:

1. REMOVE ALL TRASH, DEBRIS, VEGETATION, AND ABANDONED EQUIPMENT/MATERIALS FROM EACH ROOF AREA.
2. PROVIDE ROOF MEMBRANE REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT) (AVERAGE SIZE 2' X 2', FOR BLISTERS/DEFICIENCIES).
3. PROVIDE BASE FLASHING REPLACEMENT FOR THE FULL LENGTH OF AREA E1 AT THE MASONRY WALL.
4. REMOVE THE EXISTING COUNTERFLASHING AT MASONRY WALL AND PROVIDE NEW SHEET METAL, TWO PIECE COUNTER FLASHING W/ REGLET.

PLAN NORTH

NEW ROOF PLAN
AREAS E & E1
BUILDING 200



KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
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Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
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CONWAY, SOUTH CAROLINA

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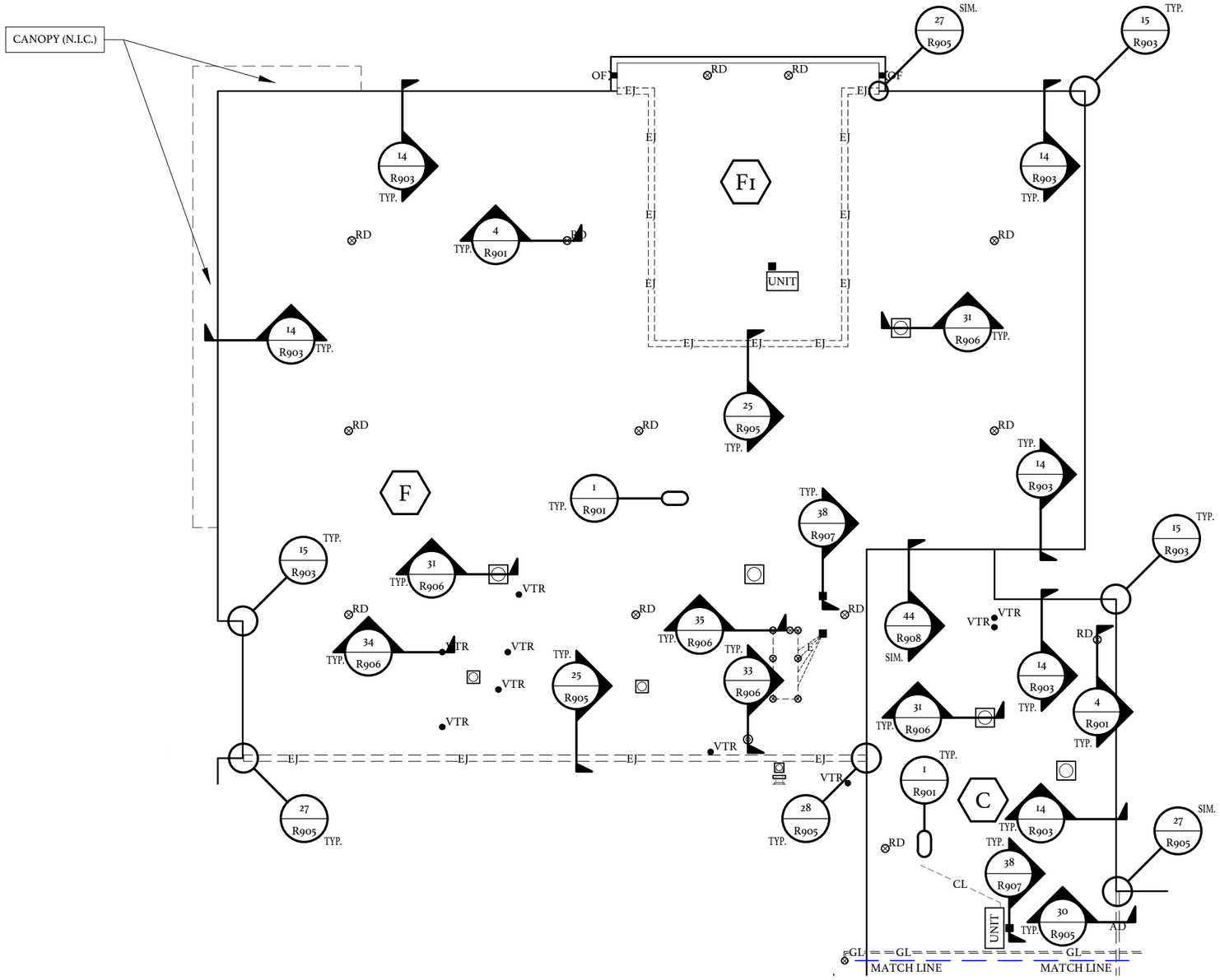
REVISION:	

NEW ROOF
PLAN AREAS
E & E1
BUILDING 200

R213

SHEET 16 OF 85

CONSTRUCTION DOCUMENTS



ROOF AREA F1 REPAIR NOTES:

1. REMOVE ALL TRASH, DEBRIS, VEGETATION, AND ABANDONED EQUIPMENT/MATERIALS FROM EACH ROOF AREA.
2. CLEAR OUT ALL EXTERIOR DRAINAGE OUTLETS (GUTTERS, DRAINS, SCUPPERS, DOWNSPOUTS, ETC).
3. PROVIDE ROOF MEMBRANE REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT) (AVERAGE SIZE 2' X 2', FOR BLISTERS/DEFICIENCIES).
4. PROVIDE BASE FLASHING REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT).
5. PROVIDE ROOF DRAIN FLASHING 6' X 6' AT ALL LOCATIONS USING PMMA SYSTEM WITH FABRIC REINFORCING. REINSTALL EXISTING CLAMPING RING, PROVIDE NEW STAINLESS STEEL BOLTS, FLOOD TEST ASSEMBLY AND THEN REINSTALL STRAINER.
6. CLEAN OUT ALL PITCH PANS, OR REPLACE WITH NEW STAINLESS STEEL PITCH PANS. PROVIDE 100% SOLIDS POURABLE SEALER AND PROVIDE SLOPED STAINLESS STEEL UMBRELLA/HEAD OVER ALL PITCH PANS.
7. PROVIDE NEW SUPPORTS, SPACING 5' ON CENTER, UNLESS NOTED OTHERWISE FOR SMALL (LESS THAN 2" Ø) CONDUITS, PIPES, ETC (NOT WOOD).
8. ROUTE NEW GREY (ELECTRICAL) CONDENSATE LINE TO NEAREST DRAINAGE MECHANISM.

PLAN NORTH

NEW ROOF PLAN
AREAS C, F, & F1
BUILDING 200

KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
LICENSED
17026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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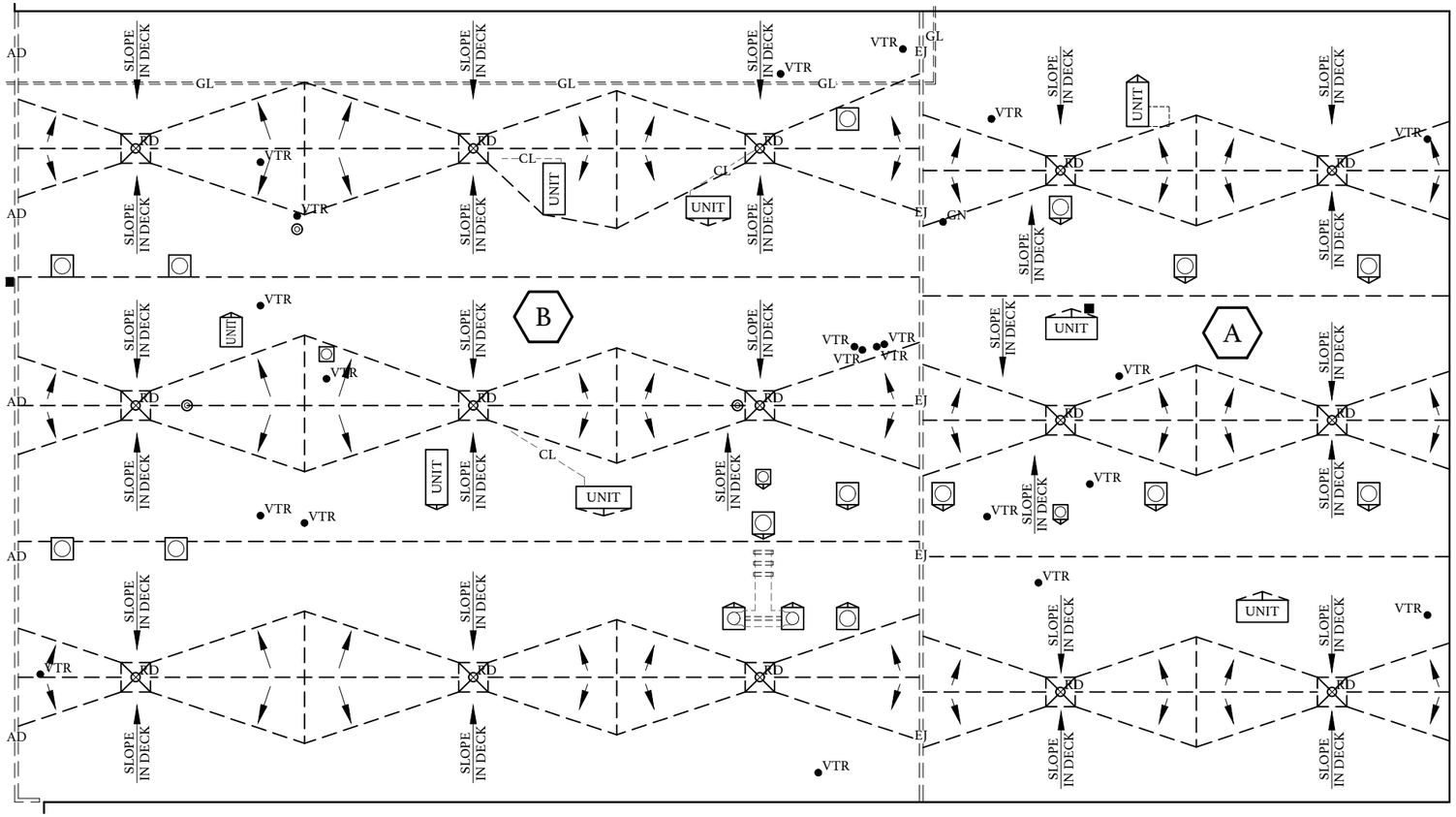
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF
PLAN AREAS
C, F, & F1
BUILDING 200

R214

SHEET 17 OF 85

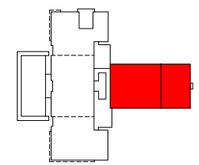
CONSTRUCTION DOCUMENTS



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.

TAPER ROOF PLAN
AREAS A & B
BUILDING 200



KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

PLAN NORTH

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
LICENSED
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

OWNER PROJECT NUMBER: H59-6227-PD
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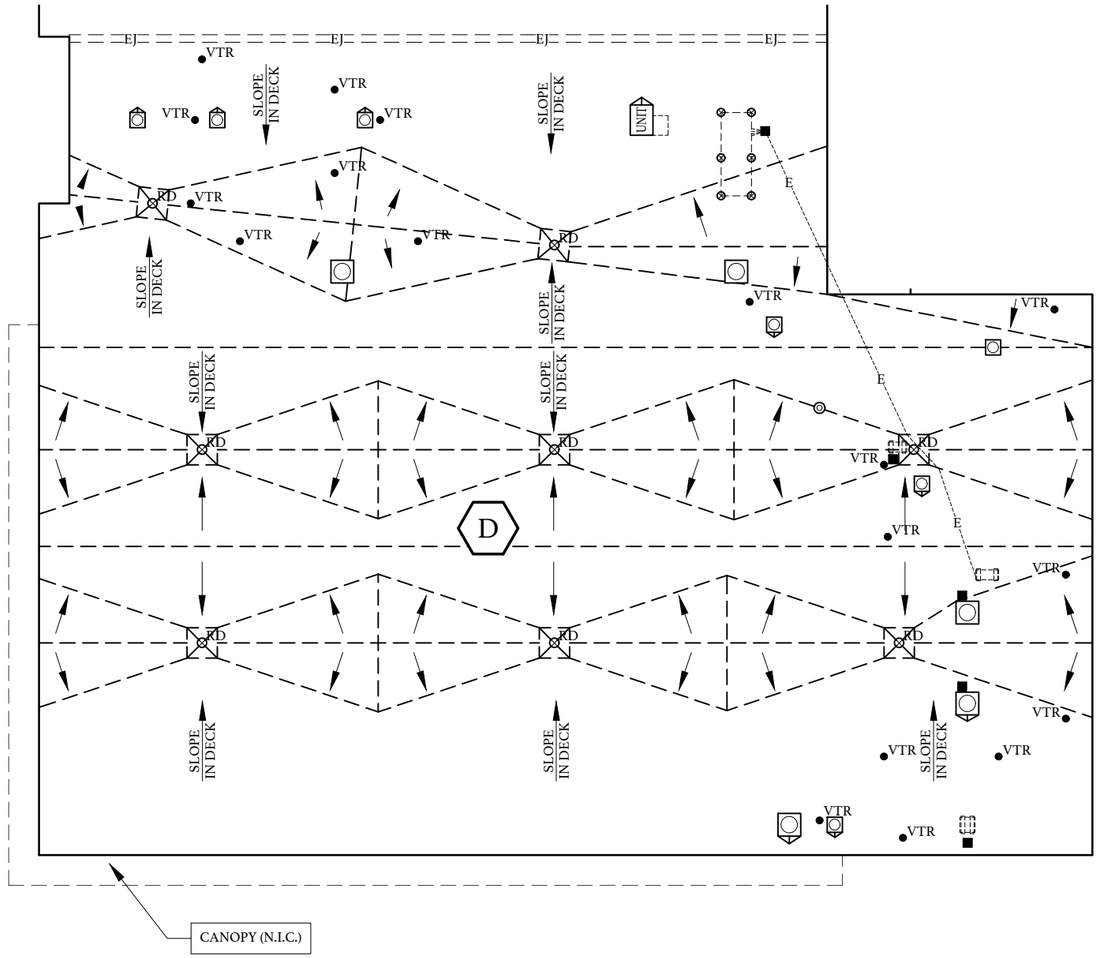
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN AREAS A & B BUILDING 200

R215

SHEET 18 OF 85



TAPERED INSULATION NOTES

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   A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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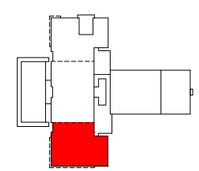
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
   A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A 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.

PLAN NORTH

TAPER ROOF PLAN
AREA D
BUILDING 200



KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV
No. 34026
Registered Roof Consultant

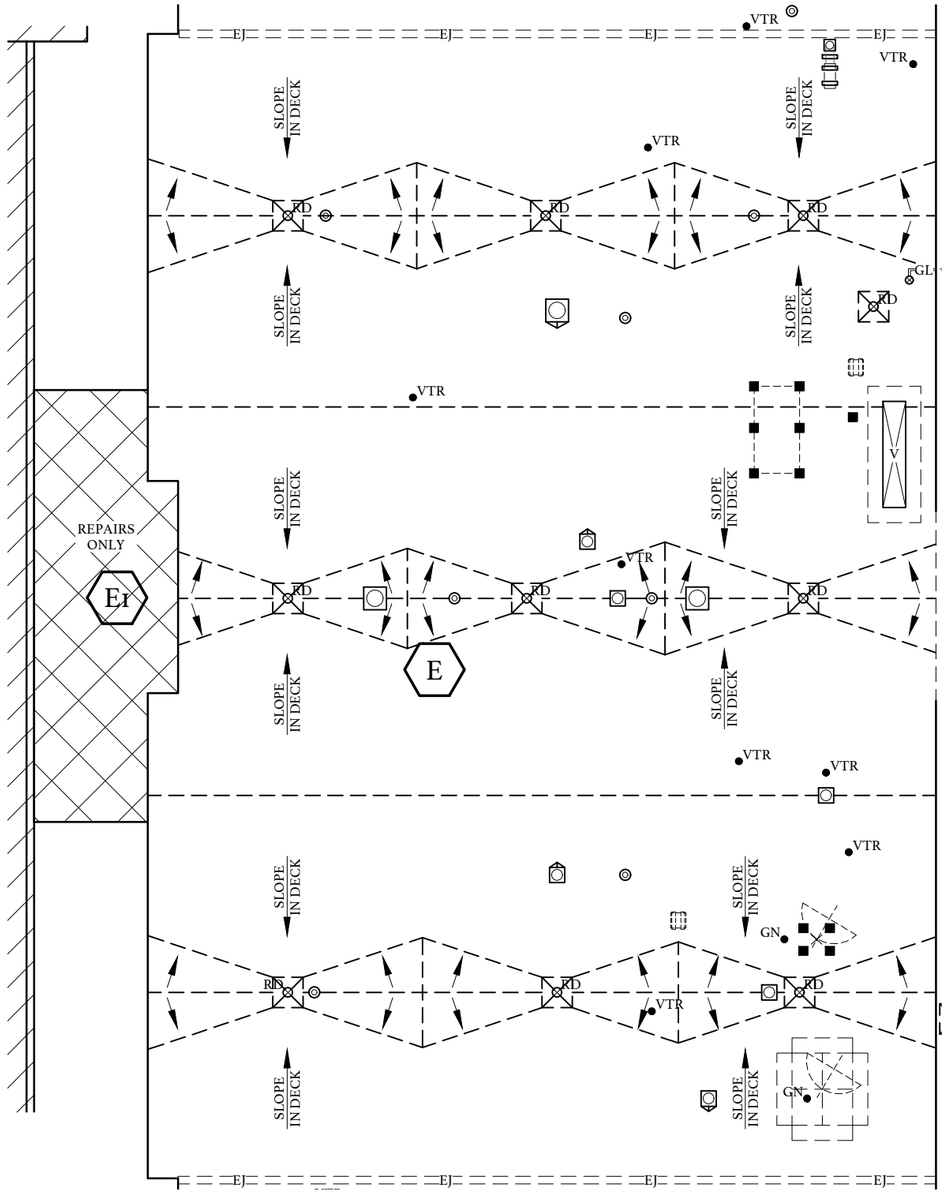
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF
PLAN AREA D
BUILDING 200

R216

CONSTRUCTION DOCUMENTS



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.

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

Richard L. Cook IV
No. 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

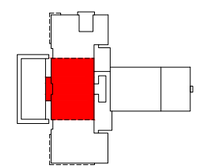
TAPER ROOF PLAN AREA E BUILDING 200

R217

SHEET 20 OF 85

PLAN NORTH

TAPER ROOF PLAN
AREA E
BUILDING 200

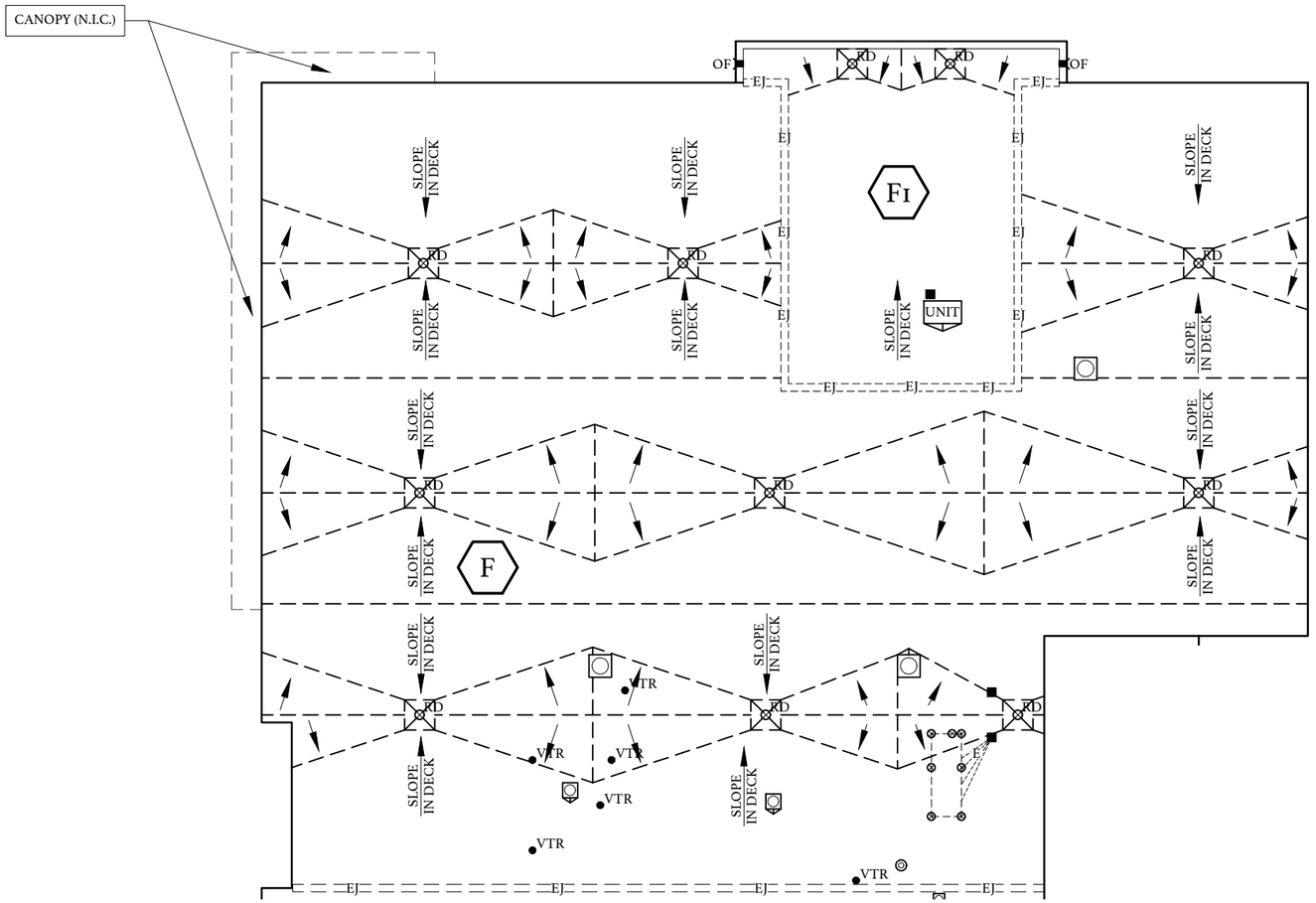


KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS



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.

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

Richard L. Cook IV
NRCA
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

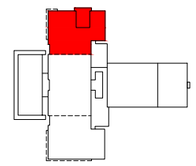
TAPER ROOF PLAN AREAS F & F1 BUILDING 200

R218

SHEET 21 OF 85

PLAN NORTH

TAPER ROOF PLAN
AREAS F & F1
BUILDING 200



KEY PLAN

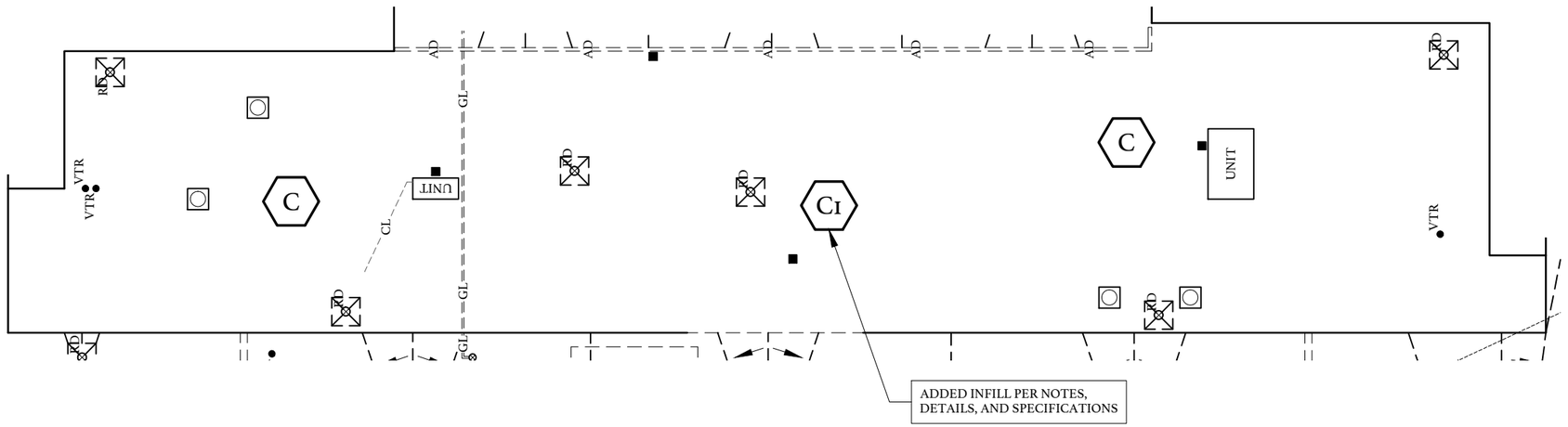
20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

TAPERED INSULATION NOTES

1. PROVIDE PRIMARY SLOPE USING TAPERED INSULATION AT 1/8" 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.

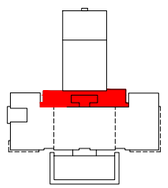


NOTES:

1. AREA C/C1, AREA C1 REQUIRES INSULATION INFILL AND INSULATION STAGGER, TO PERMIT THE OVERALL TAPERED ROOF PLAN TO COVER AREAS C/C1.

TAPER ROOF PLAN AREAS C & C1 BUILDING 200

PLAN NORTH



KEY PLAN

20' 10' 5' 0 10' 20' 40'

GRAPHIC SCALE

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

Richard L. Cook IV — LEED AP — 2026 — Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 200
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN AREAS C & C1 BUILDING 200

R219

SHEET 22 OF 85

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

PLAN NORTH

BUILDING 500
AERIAL PLAN

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
RRC 7026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 500
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 500
AERIAL PLAN

R301

BASE BID:

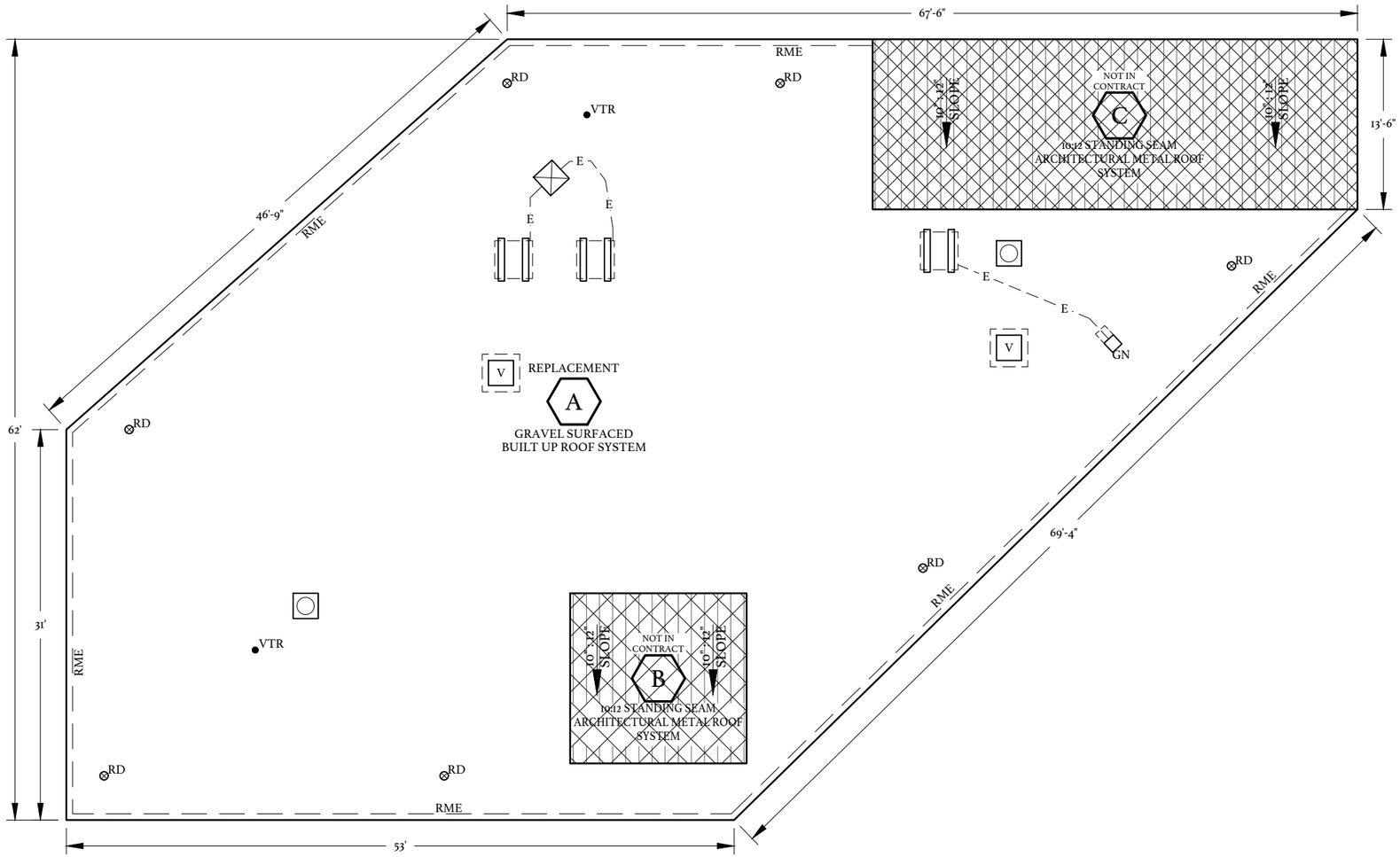
BASE BID WORK INCLUDES TOTAL ROOF REPLACEMENT OF BUILDINGS 500, 600, 700, 800, & 900.

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. DESIGN BASED ON PREVIOUS PROJECT FROM 2002. CONTRACT DOCUMENTS AVAILABLE PER REQUEST.

ITEM	DESCRIPTION
AREA A-	GRAVEL SURFACED BUILT UP ROOF
	PERLITE
	POLYISOCYANURATE
	METAL DECK
	TOTAL THICKNESS



SQS:

ROOF AREA A: 41 SQS
ROOF AREA B: 3 SQS
ROOF AREA C: 8 SQS

PLAN NORTH

EXISTING ROOF PLAN
BUILDING 500

10' 5' 0 10' 20'

GRAPHIC SCALE

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

Richard L. Cook IV
RRC 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 500
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN
BUILDING 500

R302

CONSTRUCTION DOCUMENTS

PHOTO # 1
BUILDING 500

PHOTO # 2
BUILDING 500

PHOTO # 3
BUILDING 500

PHOTO # 4
BUILDING 500

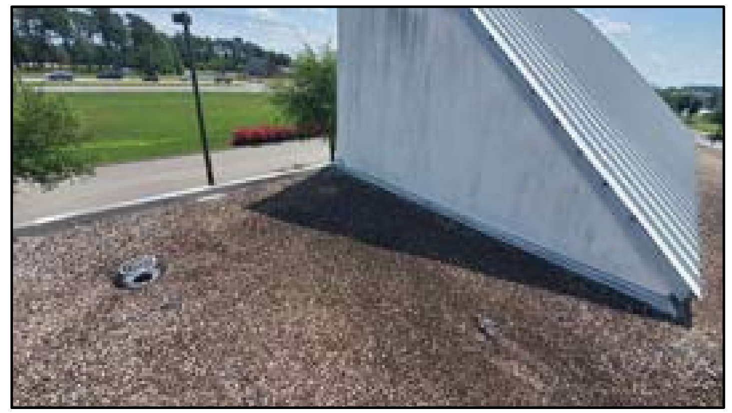


PHOTO # 5
BUILDING 500

PHOTO # 6
BUILDING 500

PHOTO # 7
BUILDING 500

PHOTO # 8
BUILDING 500

PHOTO # 9
BUILDING 500

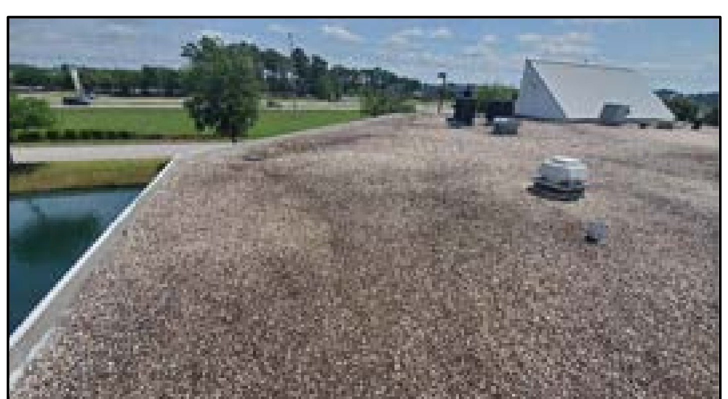


PHOTO # 10
BUILDING 500

PHOTO # 11
BUILDING 500

PHOTO # 12
BUILDING 500

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

Richard L. Cook
IBEC 0026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 500

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A

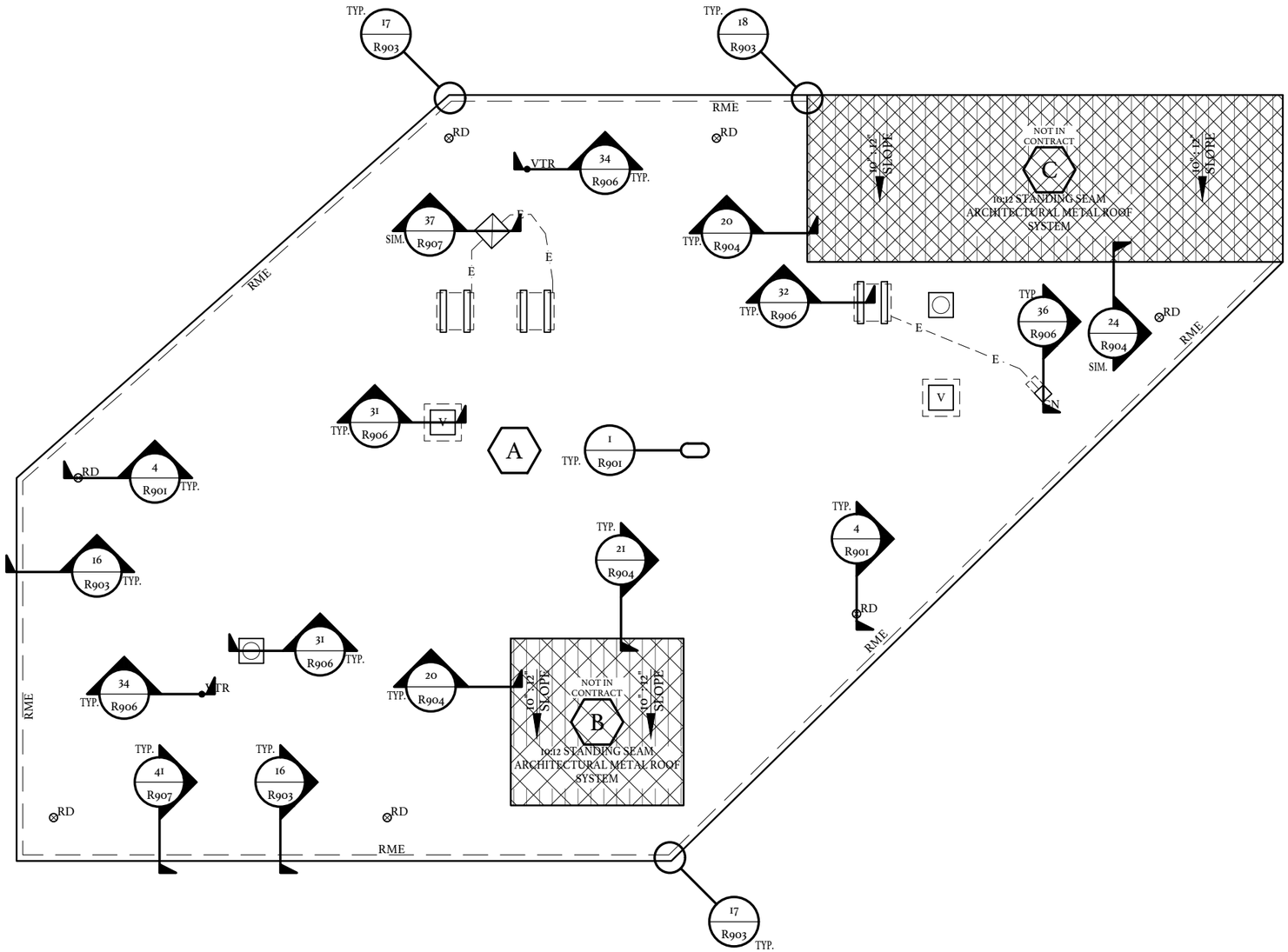
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

PHOTOGRAPHS
BUILDING 500

R303

CONSTRUCTION DOCUMENTS



PLAN NORTH

NEW ROOF PLAN
BUILDING 500

GRAPHIC SCALE
10' 5' 0 10' 20'

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
RRC 2026
Registered Roof Consultant

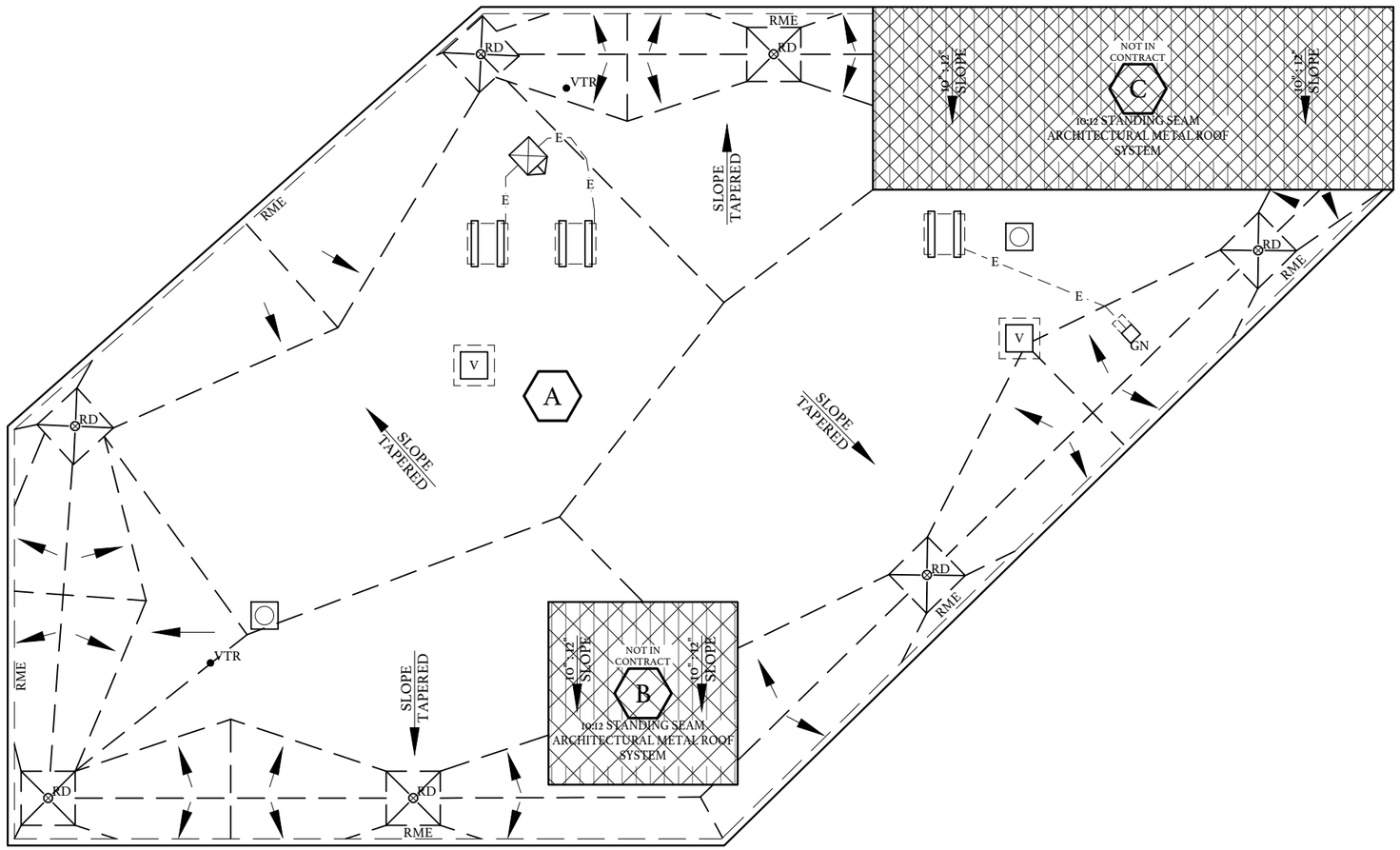
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 500
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF PLAN BUILDING 500

R304

SHEET 26 OF 85



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.

PLAN NORTH

TAPER ROOF PLAN
BUILDING 500

10' 5' 0 10' 20'
GRAPHIC SCALE

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

Richard L. Cook IV
LEED AP
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 500
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN BUILDING 500

R305

SHEET 27 OF 85

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

PLAN NORTH

BUILDING 600
AERIAL PLAN

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

Richard L. Cook IV
RRC 1026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 600

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 600
AERIAL PLAN

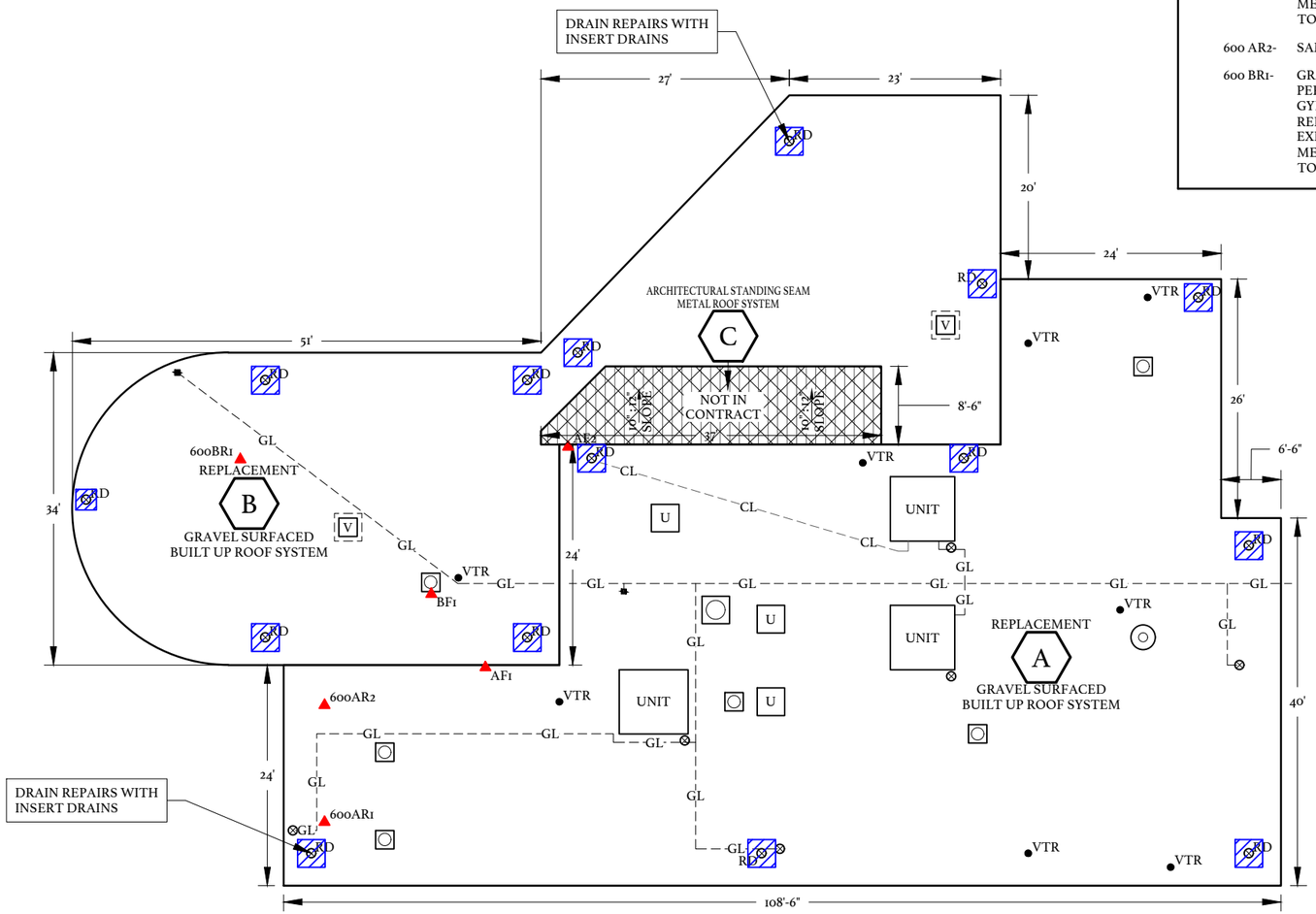
R401

SHEET 28 OF 85

CONSTRUCTION DOCUMENTS

BASE BID:

BASE BID WORK INCLUDES TOTAL ROOF REPLACEMENT OF BUILDINGS 500, 600, 700, 800, & 900.



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
600 AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1 1/2" GYPSUM BOARD - 1/4" RED ROSIN PAPER EXPANDED POLYSTYRENE - 1" METAL DECK TOTAL THICKNESS = 3 1/4"
600 AR2-	SAME AS AR1
600 BR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1 1/2" GYPSUM BOARD - 1/4" RED ROSIN PAPER EXPANDED POLYSTYRENE - 2" METAL DECK TOTAL THICKNESS = 4 1/4"

LEGEND

REPAIR AREA

SQS

ROOF AREA A: 49 SQS
ROOF AREA B: 29 SQS
ROOF AREA C: 4 SQS

PLAN NORTH

EXISTING ROOF PLAN
BUILDING 600

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

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

Richard L. Cook IV
Registered Roof Consultant
2026

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 600

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN
BUILDING 600

R402

SHEET 29 OF 85

CONSTRUCTION DOCUMENTS

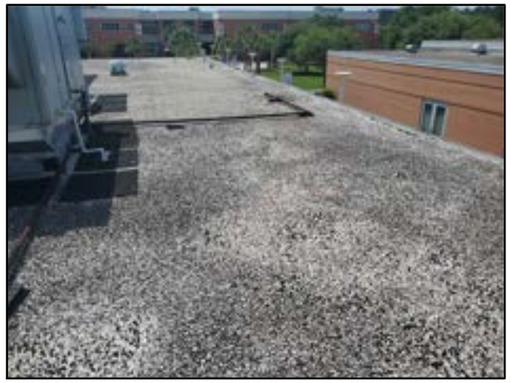


PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA A

PHOTO # 5
ROOF AREA A

PHOTO # 6
ROOF AREA A

PHOTO # 7
ROOF AREA B

PHOTO # 8
ROOF AREA B

PHOTO # 9
ROOF AREA B

PHOTO # 10
ROOF AREA B

PHOTO # 11
ROOF AREA B

PHOTO # 12
ROOF AREA B

The BUILDING ENVELOPE ENCLOSURE Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

Richard L. Cook
RRC 1026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE

REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 600

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

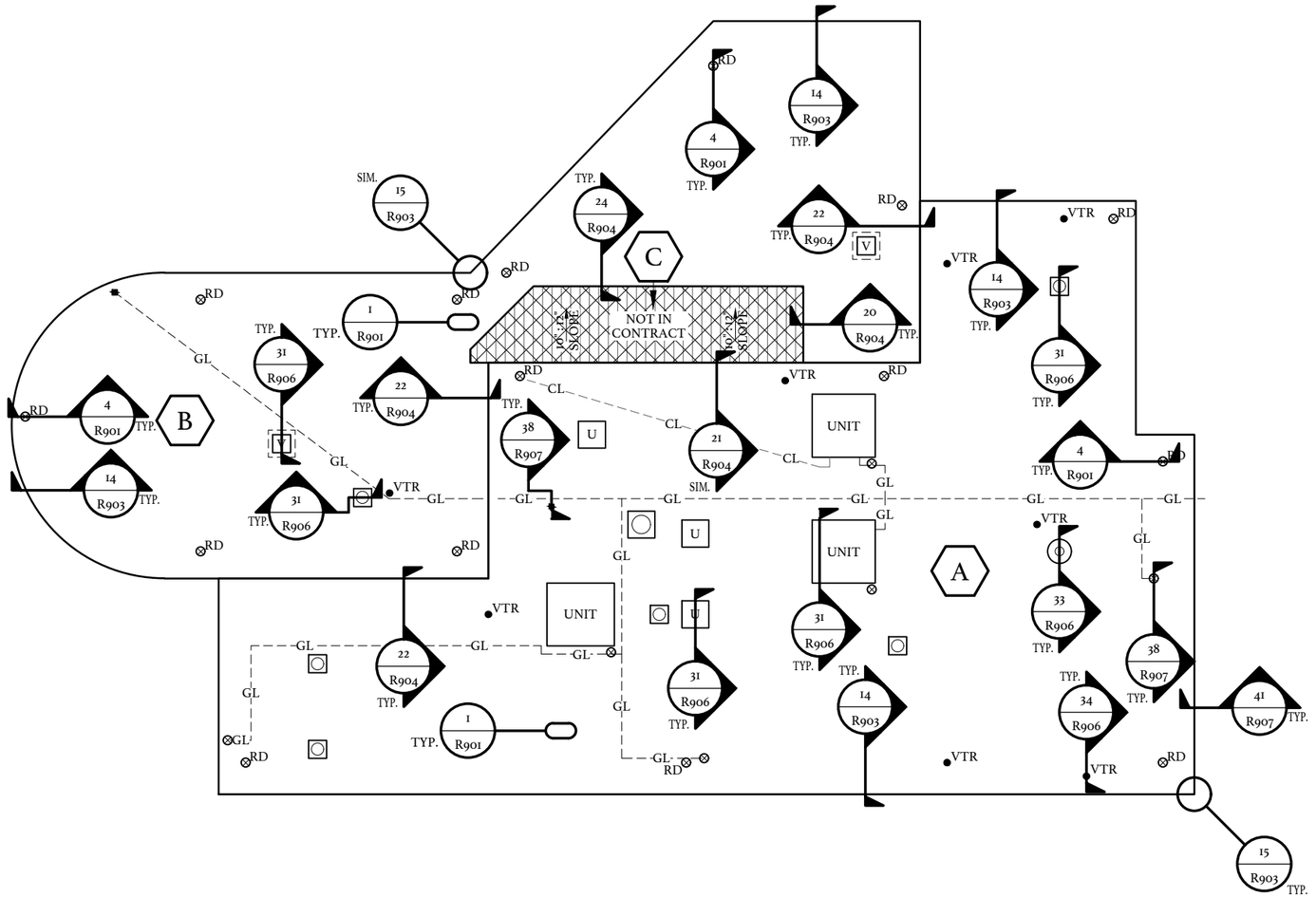
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS A & B PHOTOGRAPHS BUILDING 600

R403

SHEET 30 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

NEW ROOF PLAN
BUILDING 600

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
RRC 026
Registered Roof Consultant

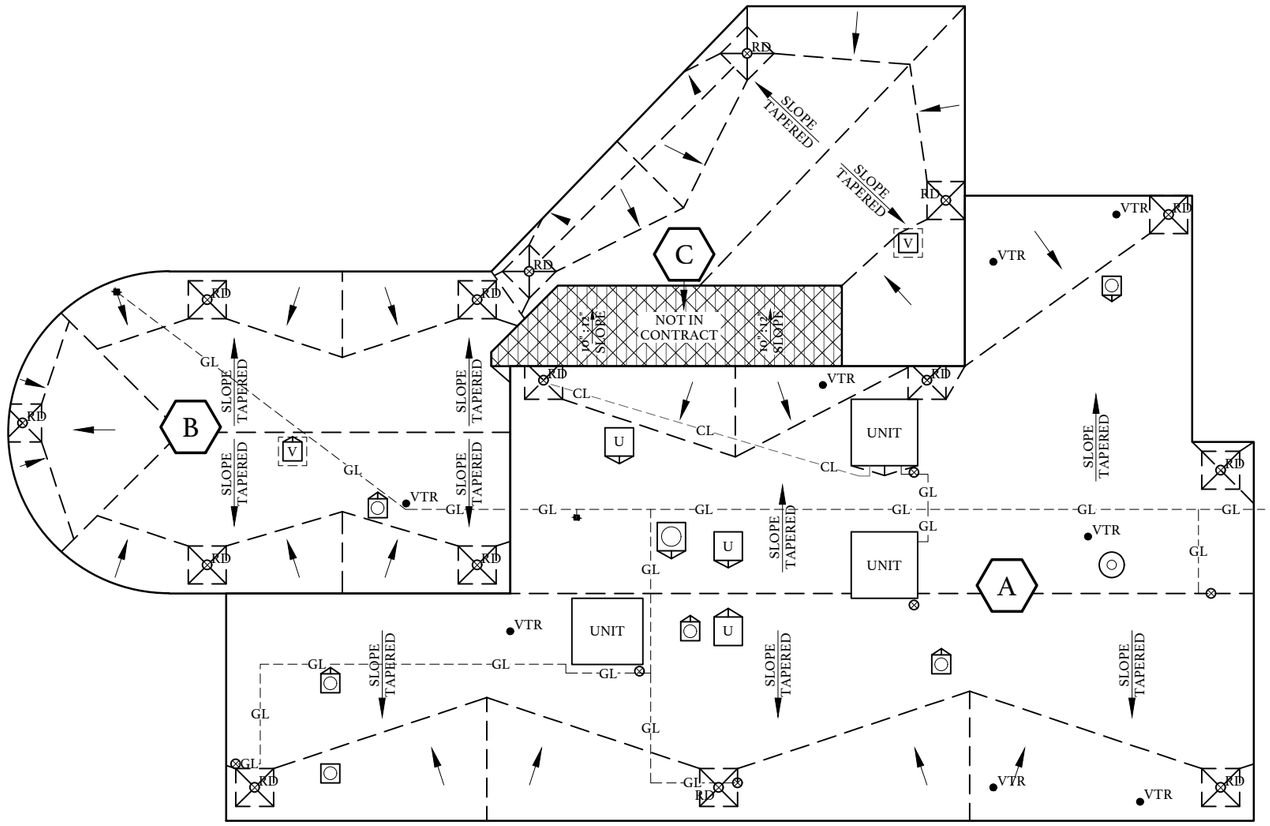
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 600
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF PLAN BUILDING 600

R404

SHEET 31 OF 85



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.

NOTES:

1. PROVIDE ADDED NAILERS AND RAISED EDGE METAL TO ACCOMMODATE CRICKET HEIGHT.

TAPER ROOF PLAN
BUILDING 600

PLAN NORTH

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

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

Richard L. Cook IV
RRC 2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 600
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN BUILDING 600

R405

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

PLAN NORTH

BUILDING 700
AERIAL PLAN

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
License No. 17026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 700
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 700
AERIAL PLAN

R501

BASE BID:

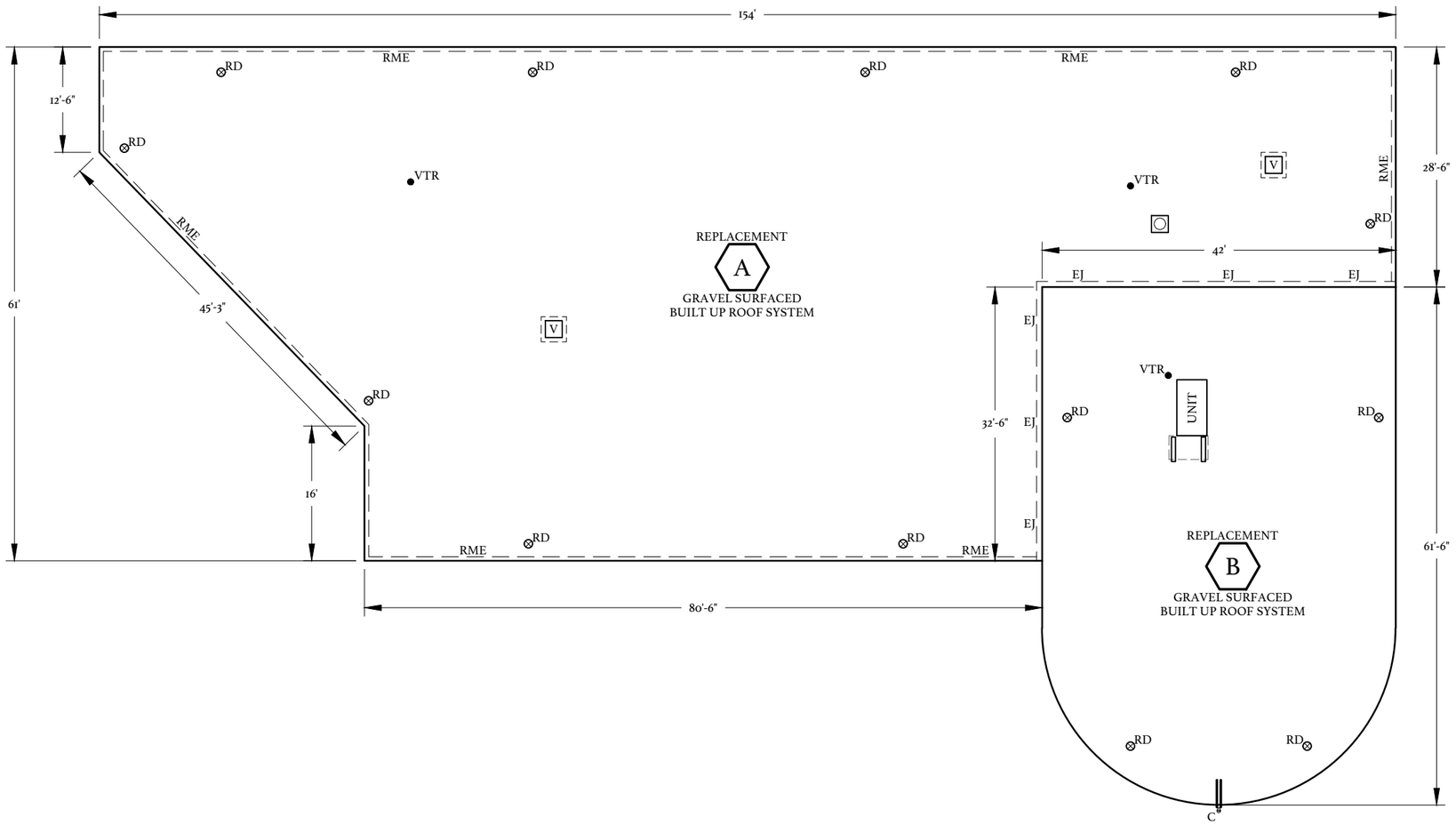
BASE BID WORK INCLUDES TOTAL ROOF REPLACEMENT OF BUILDINGS 500, 600, 700, 800, & 900.

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. DESIGN BASED ON PREVIOUS PROJECT FROM 2002. CONTRACT DOCUMENTS AVAILABLE PER REQUEST.

ITEM	DESCRIPTION
AREA A-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE METAL DECK
AREA B-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE METAL DECK



PLAN NORTH

SQS

ROOF AREA A: 71 SQS
ROOF AREA B: 24 SQS

EXISTING ROOF PLAN
BUILDING 700

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

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

Richard L. Cook IV
License No. 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 700
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN
BUILDING 700

R502

CONSTRUCTION DOCUMENTS

PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA A

PHOTO # 5
ROOF AREA A

PHOTO # 6
ROOF AREA A

PHOTO # 7
ROOF AREA A

PHOTO # 8
ROOF AREA A

PHOTO # 9
ROOF AREA B

PHOTO # 10
ROOF AREA B

PHOTO # 11
ROOF AREA B

PHOTO # 12
ROOF AREA B

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

Richard L. Cook
License No. 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 700
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

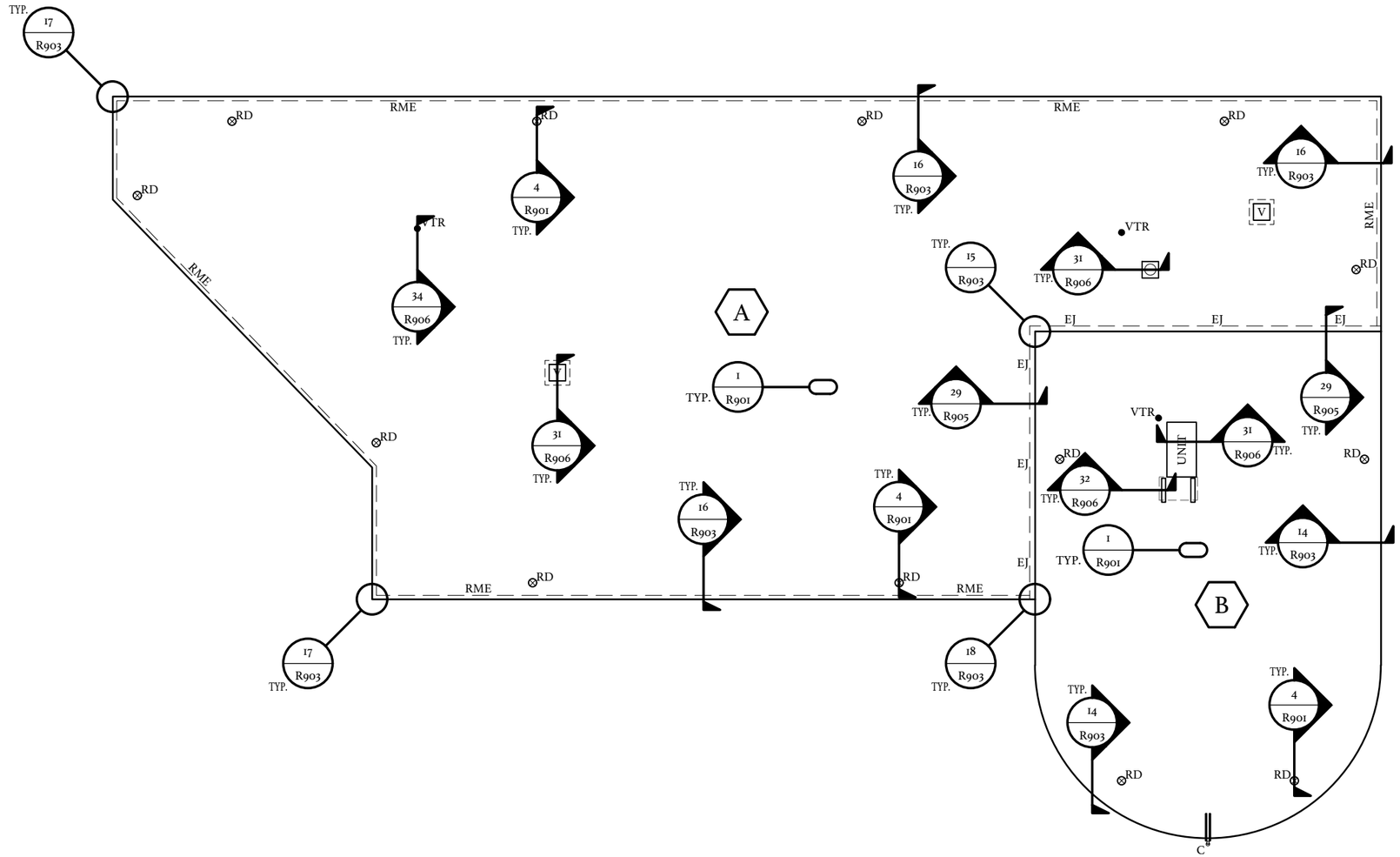
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS A & B
PHOTOGRAPHS
BUILDING 700

R503

SHEET 35 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

NEW ROOF PLAN
BUILDING 700

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

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

Richard L. Cook IV
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 700

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

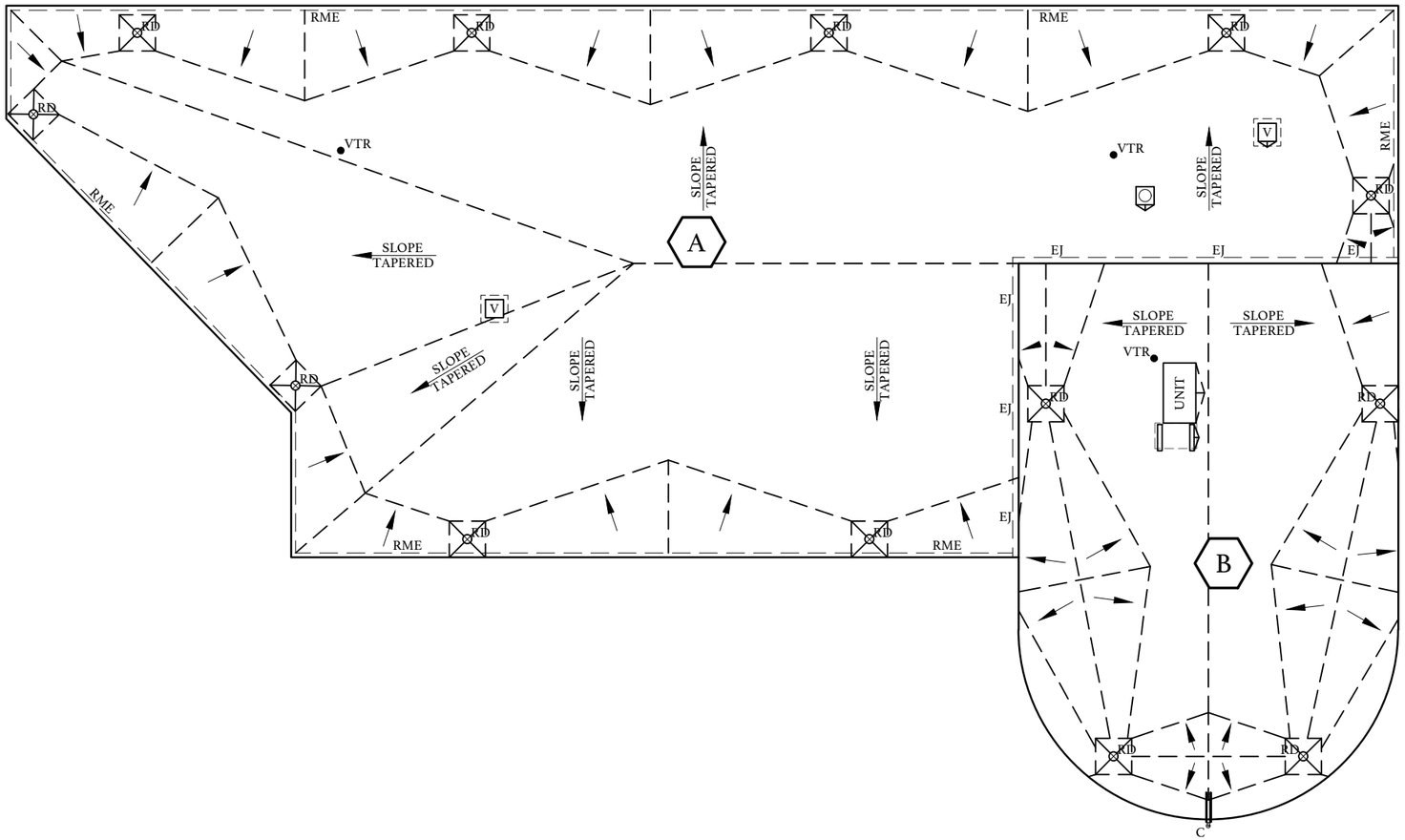
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF
PLAN
BUILDING 700

R504

SHEET 36 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

TAPER ROOF PLAN
BUILDING 700

GRAPHIC SCALE
16' 12' 8' 4' 0 8' 16' 32'

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'.
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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.

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

Richard L. Cook IV
Registered Roof Consultant
4026

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 700
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN BUILDING 700

R505

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

PLAN NORTH

BUILDING 800
AERIAL PLAN

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

Richard L. Cook
RRC 1026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 800
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 800
AERIAL PLAN

R601

SHEET 38 OF 85

CONSTRUCTION DOCUMENTS

BASE BID:

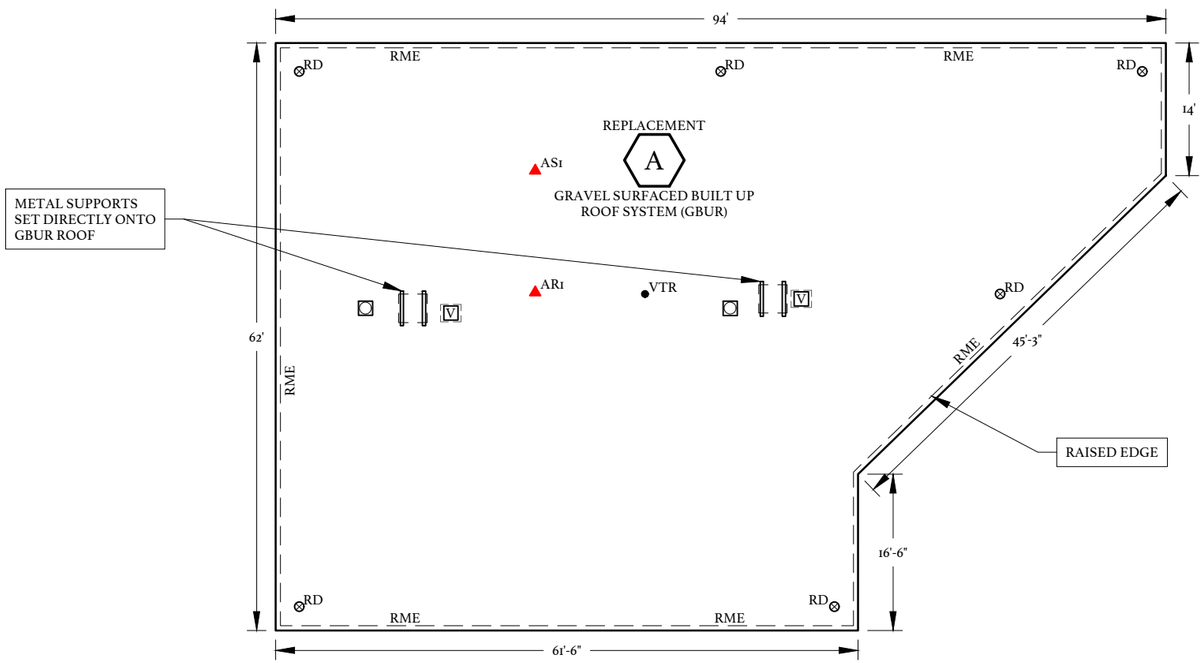
BASE BID WORK INCLUDES TOTAL ROOF REPLACEMENT OF BUILDINGS 500, 600, 700, 800, & 900.

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
AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 2" POLYISOCYANURATE - 2" METAL DECK TOTAL THICKNESS = 4 1/2"
AS1-	TOTAL THICKNESS = 8 1/2"



SQS:

ROOF AREA A: 48 SQS

EXISTING ROOF PLAN
BUILDING 800

PLAN NORTH

GRAPHIC SCALE 16' 12' 8' 4' 0 8' 16' 32'

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
LICENSED
17026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 800
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN
BUILDING 800

R602

PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

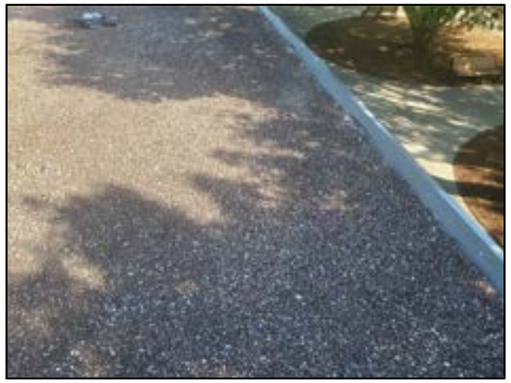


PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA A

PHOTO # 5
ROOF AREA A

PHOTO # 6
ROOF AREA A

PHOTO # 7
ROOF AREA A

PHOTO # 8
ROOF AREA A

PHOTO # 9
ROOF AREA A

PHOTO # 10
ROOF AREA A

PHOTO # 11
ROOF AREA A

PHOTO # 12
ROOF AREA A

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

Richard L. Cook IV
RRC 4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 800
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

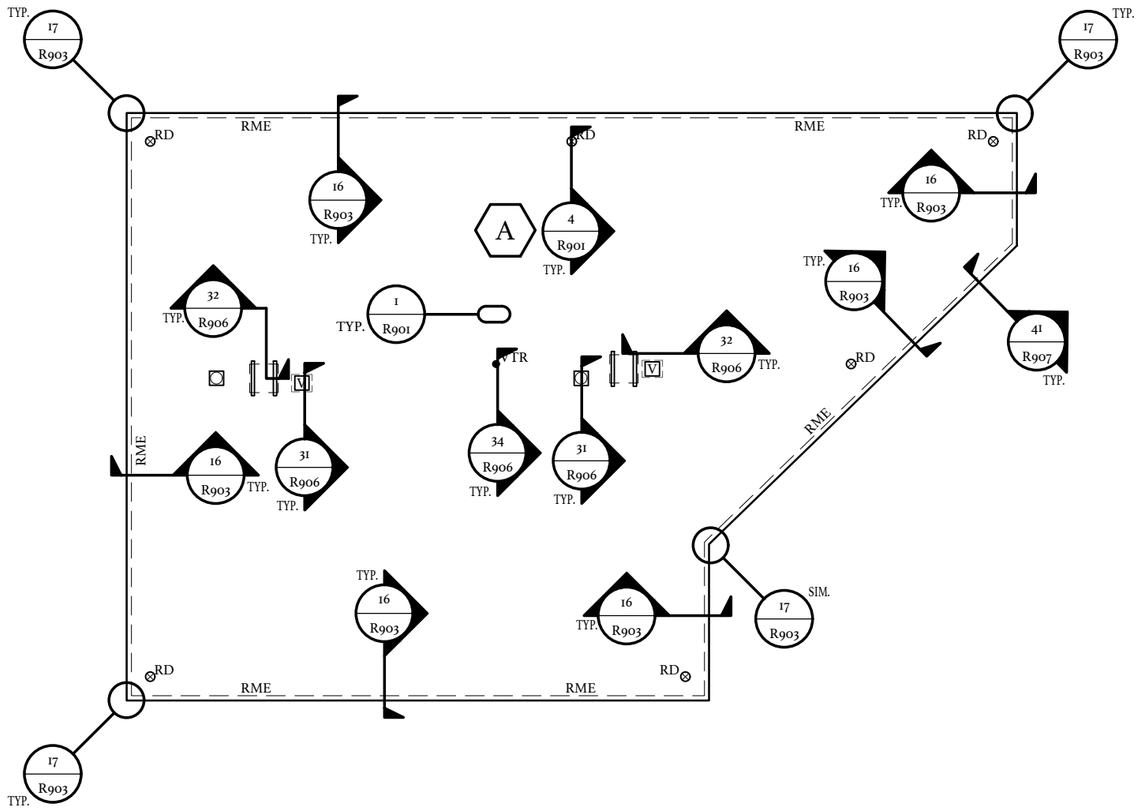
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

PHOTOGRAPHS
BUILDING 800

R603

SHEET 40 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

NEW ROOF PLAN
BUILDING 800

GRAPHIC SCALE
16' 12' 8' 4' 0 8' 16' 32'

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
RRC 026
Registered Roof Consultant

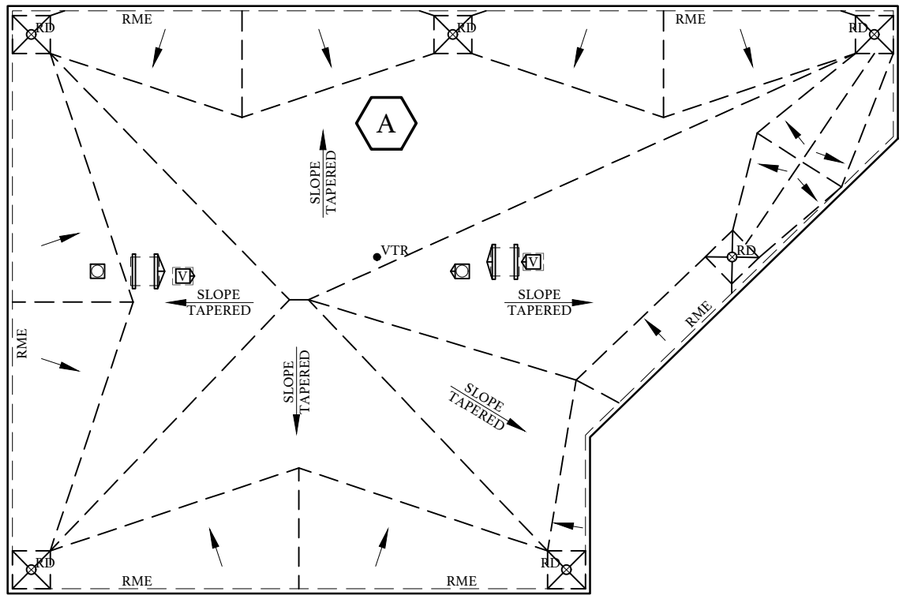
HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 800
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF
PLAN
BUILDING 800

R604

SHEET 41 OF 85



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.
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   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.

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

Richard L. Cook IV
LEED AP 2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 800
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN
BUILDING 800

R605

SHEET 42 OF 85

PLAN NORTH

TAPER ROOF PLAN
BUILDING 800

16' 12' 8' 4' 0 8' 16' 32'
GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID TOTAL ROOF REPLACEMENT
BUILDINGS 500, 600, 700, 800, & 900

PLAN NORTH

BUILDING 900
AERIAL PLAN

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

Richard L. Cook IV
RRC 7026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 900
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 900
AERIAL PLAN

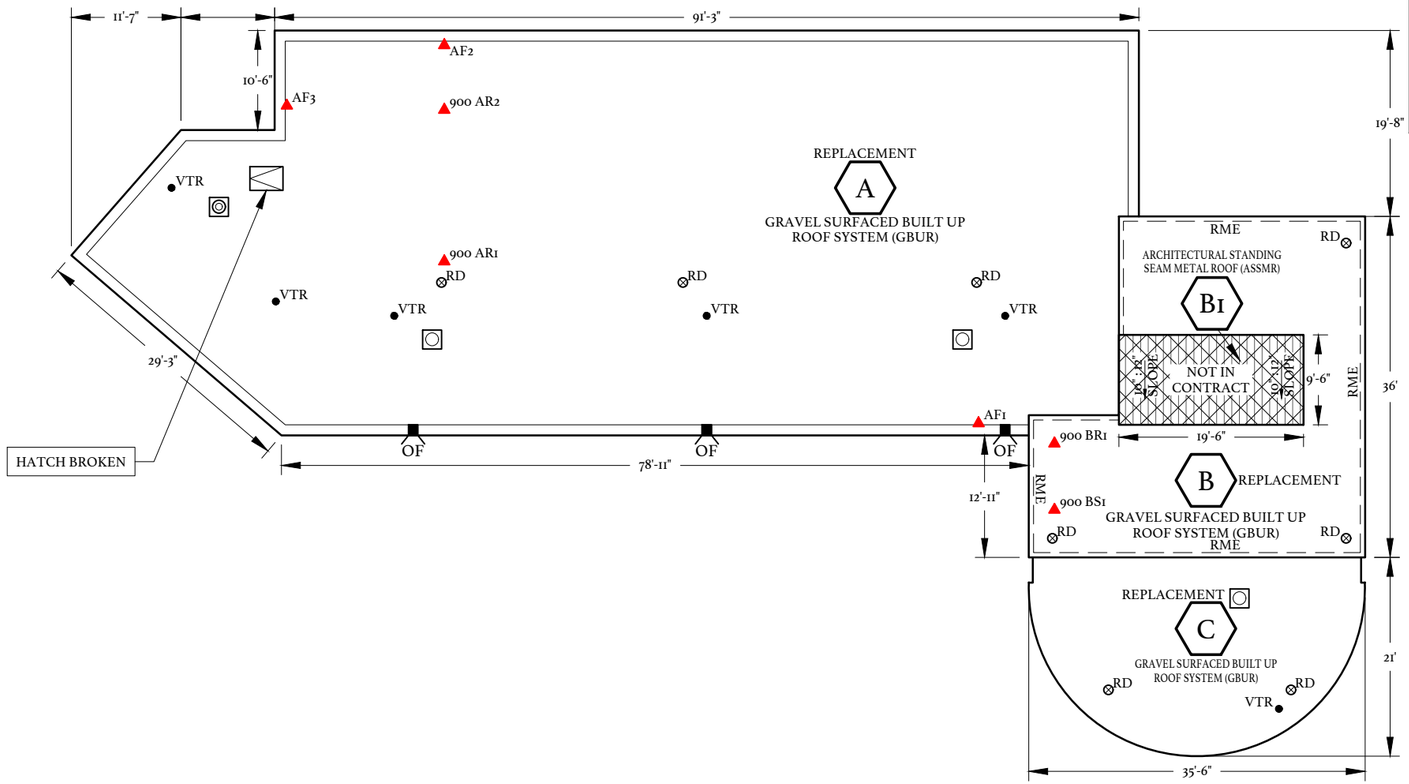
R701

SHEET 43 OF 85

CONSTRUCTION DOCUMENTS

BASE BID:

BASE BID WORK INCLUDES TOTAL ROOF REPLACEMENT OF BUILDINGS 500, 600, 700, 800, & 900.



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
900 AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 2" POLYISOCYANURATE - 2" VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 5"
900 AR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE VAPOR RETARDER CONCRETE DECK TOTAL THICKNESS = 8"
900 BR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 2" POLYISOCYANURATE - 2" METAL DECK TOTAL THICKNESS = 5"
900 BS1-	TOTAL THICKNESS = 4"

SQS

ROOF AREA A: 40 SQS
ROOF AREA B: 9 SQS
ROOF AREA B1: 3 SQS
ROOF AREA C: 6 SQS

EXISTING ROOF PLAN
BUILDING 900

PLAN NORTH

16' 12' 8' 4' 0 8' 16' 32'

GRAPHIC SCALE

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

Richard L. Cook IV
LICENSED
2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 900
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

EXISTING ROOF PLAN
BUILDING 900

R702

SHEET 44 OF 85

CONSTRUCTION DOCUMENTS

PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA A

PHOTO # 5
ROOF AREA A

PHOTO # 6
ROOF AREA B

PHOTO # 7
ROOF AREA B

PHOTO # 8
ROOF AREA B

PHOTO # 9
ROOF AREA C

PHOTO # 10
ROOF AREA C

PHOTO # 11
ROOF AREA C

PHOTO # 12
ROOF AREA C

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

Richard L. Cook
RRC 1026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE

REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 900

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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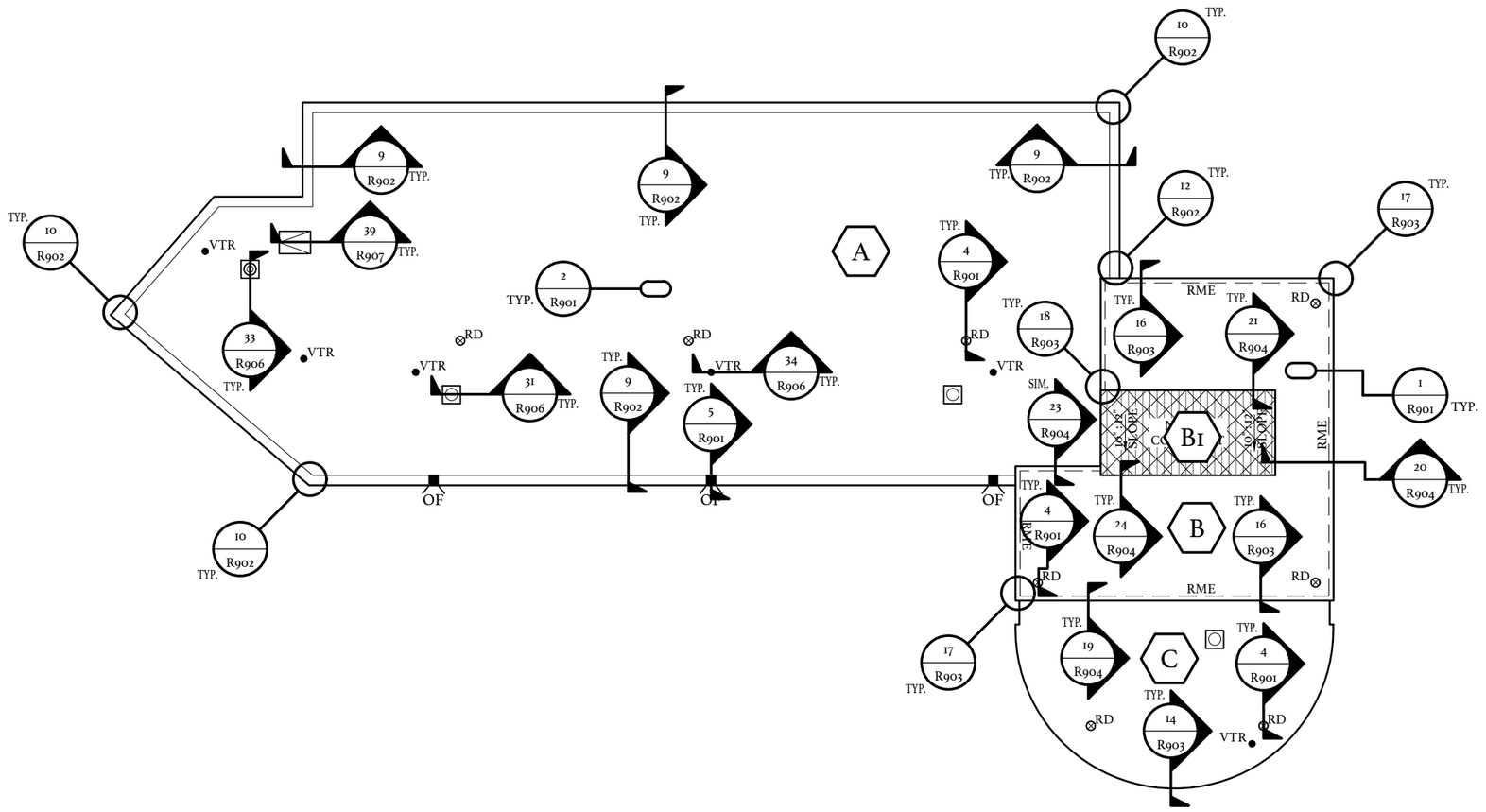
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

PHOTOGRAPHS
BUILDING 900

R703

SHEET 45 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

NEW ROOF PLAN
BUILDING 900

GRAPHIC SCALE
16' 12' 8' 4' 0 8' 16' 32'

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
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Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 900

OWNER PROJECT NUMBER: H59-6227-PD
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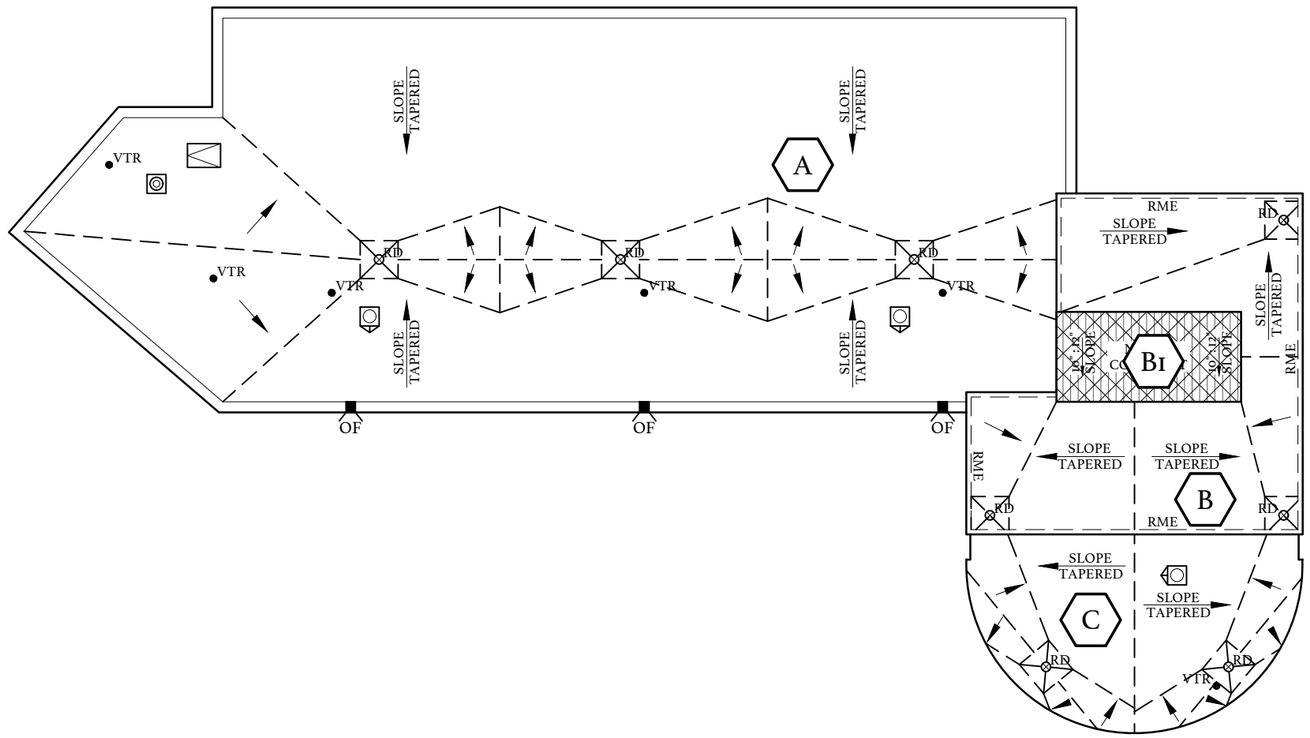
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

NEW ROOF
PLAN
BUILDING 900

R704



PLAN NORTH

TAPER ROOF PLAN
BUILDING 900

GRAPHIC SCALE
16' 12' 8' 4' 0 8' 16' 32'

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.

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

Richard L. Cook IV
LEED AP 2026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 900
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF PLAN BUILDING 900

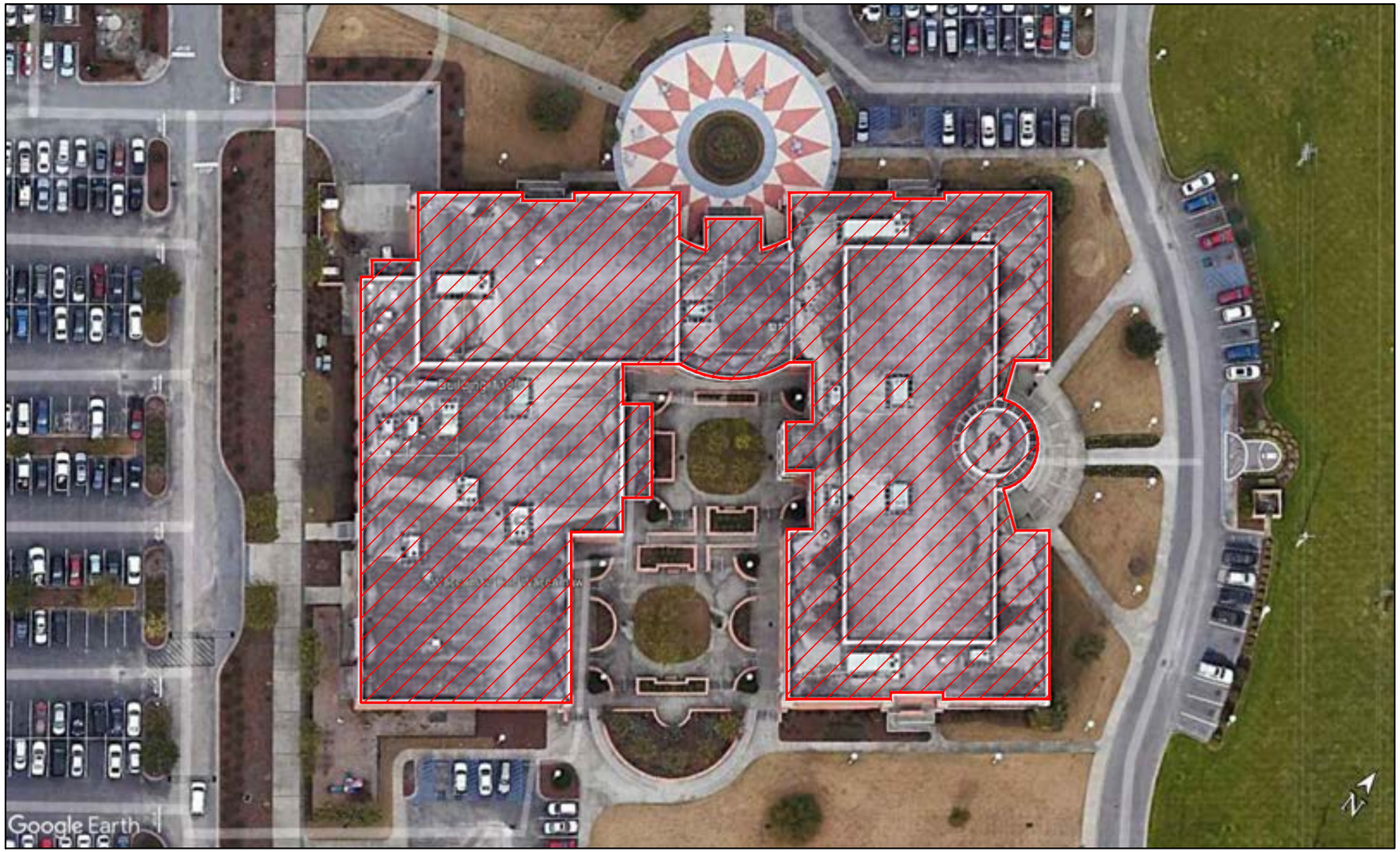
R705

SHEET 47 OF 85

CONSTRUCTION DOCUMENTS

LEGEND

BASE BID MAINTENANCE/REPAIRS
BUILDINGS 1100 AREAS A, A1, A2, A3, B, C, E, F, & G
ALTERNATE #1 TOTAL ROOF REPLACEMENT
ROOF AREAS A, A1, A2, A3, B, C, & D IN LIEU OF
MAINTENANCE/REPAIRS



PLAN NORTH

BUILDING 1100
AERIAL PLAN

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

Richard L. Cook IV
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A

2050 HWY 501 E
CONWAY, SOUTH CAROLINA

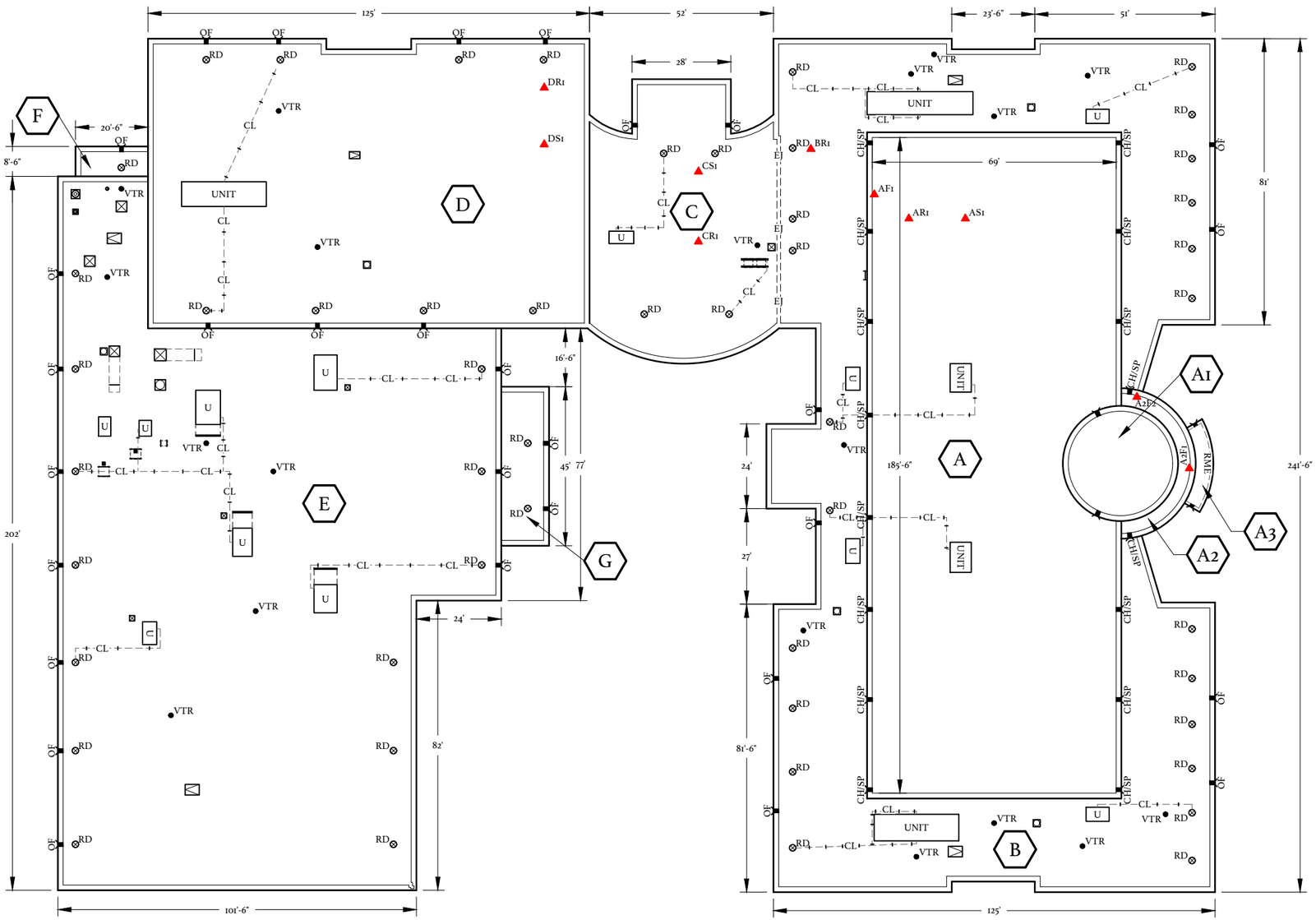
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 1100
AERIAL PLAN

R801

SHEET 48 OF 85

CONSTRUCTION DOCUMENTS



SQS

ROOF AREA A: 125 SQS
ROOF AREA A1: 7 SQS
ROOF AREA A2: 2 SQS
ROOF AREA A3: 2 SQS
ROOF AREA B: 130 SQS
ROOF AREA C: 36 SQS
ROOF AREA D: 96 SQS
ROOF AREA E: 184 SQS
ROOF AREA F: 2 SQS
ROOF AREA G: 6 SQS

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).

PLAN NORTH

BUILDING 1100 OVERALL EXISTING PLAN

NOT TO SCALE

CONSTRUCTION DOCUMENTS

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

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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

BUILDING 1100
OVERALL
COMPLEX PLAN

R802

PHOTO # 1
ROOF AREA A

PHOTO # 2
ROOF AREA A

PHOTO # 3
ROOF AREA A

PHOTO # 4
ROOF AREA A

PHOTO # 5
ROOF AREA A

PHOTO # 6
ROOF AREA A

PHOTO # 7
ROOF AREA A1

PHOTO # 8
ROOF AREA A1

PHOTO # 9
ROOF AREA A2

PHOTO # 10
ROOF AREA A2

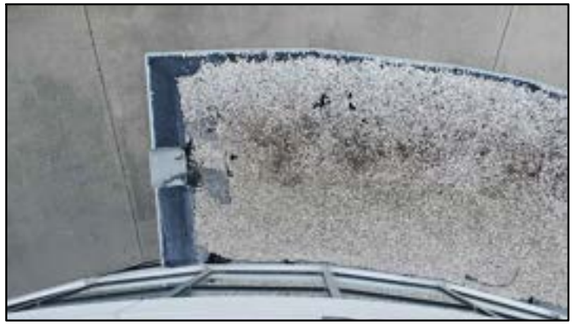

PHOTO # 11
ROOF AREA A3

PHOTO # 12
ROOF AREA A3

CONSTRUCTION DOCUMENTS

The BUILDING ENVELOPE ENCLOSURE Group
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HANAHAN, SC 29410

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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100

OWNER PROJECT NUMBER: H59-6227-PD
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2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS A, A1, A2, & A3 PHOTOGRAPHS BUILDING 1100

R803

PHOTO # 13
ROOF AREA B

PHOTO # 14
ROOF AREA B

PHOTO # 15
ROOF AREA B

PHOTO # 16
ROOF AREA B

PHOTO # 17
ROOF AREA B

PHOTO # 18
ROOF AREA B

PHOTO # 19
ROOF AREA B

PHOTO # 20
ROOF AREA B

PHOTO # 21
ROOF AREA B

PHOTO # 22
ROOF AREA B

PHOTO # 23
ROOF AREA B

PHOTO # 24
ROOF AREA B

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

Richard L. Cook IV
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREA B
PHOTOGRAPHS
BUILDING 1100

R804

SHEET 51 OF 85

CONSTRUCTION DOCUMENTS

PHOTO # 25
ROOF AREA C

PHOTO # 26
ROOF AREA C

PHOTO # 27
ROOF AREA C

PHOTO # 28
ROOF AREA C

PHOTO # 29
ROOF AREA C

PHOTO # 30
ROOF AREA C

PHOTO # 31
ROOF AREA D

PHOTO # 32
ROOF AREA D

PHOTO # 33
ROOF AREA D

PHOTO # 34
ROOF AREA D

PHOTO # 35
ROOF AREA D

PHOTO # 36
ROOF AREA D

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

Richard L. Cook IV
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS
C & D
PHOTOGRAPHS
BUILDING 1100

R805

SHEET 52 OF 85

CONSTRUCTION DOCUMENTS

PHOTO # 37
ROOF AREA E

PHOTO # 38
ROOF AREA E

PHOTO # 39
ROOF AREA E

PHOTO # 40
ROOF AREA E

PHOTO # 41
ROOF AREA E

PHOTO # 42
ROOF AREA E

PHOTO # 43
ROOF AREA E

PHOTO # 44
ROOF AREA E

PHOTO # 45
ROOF AREA F

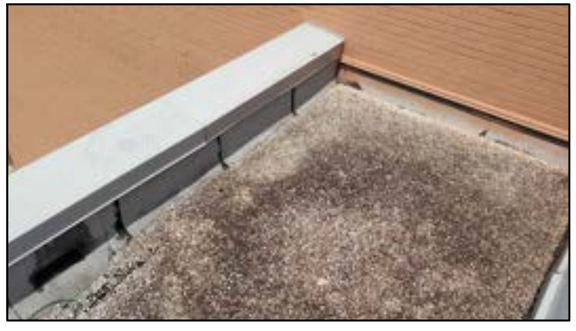

PHOTO # 46
ROOF AREA F

PHOTO # 47
ROOF AREA G

PHOTO # 48
ROOF AREA G

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

Richard L. Cook IV
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
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2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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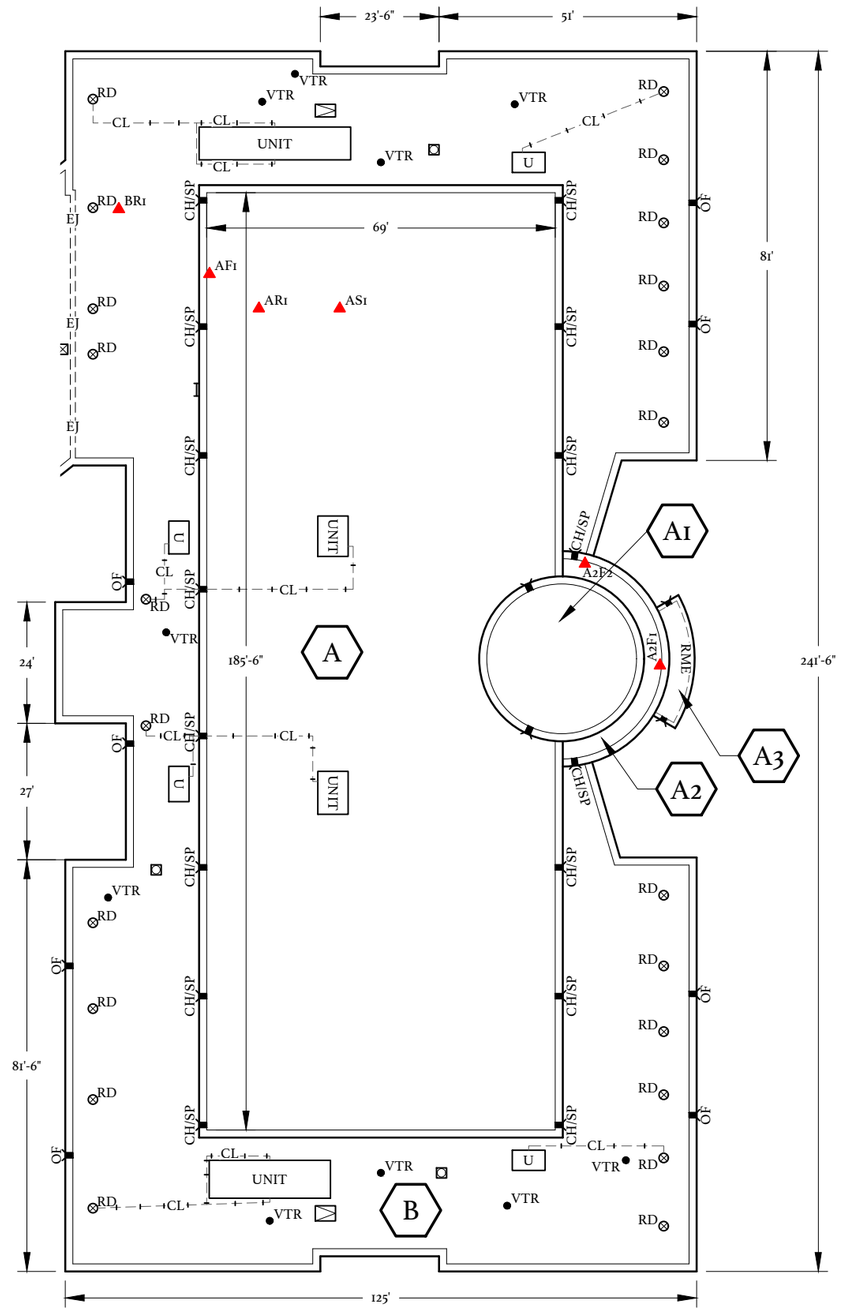
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

ROOF AREAS
E, F, & G
PHOTOGRAPHS
BUILDING 1100

R806

SHEET 53 OF 85

CONSTRUCTION DOCUMENTS



REPAIR ROOF PLAN
AREAS A, A1, A2, A3, & B
BUILDING 1100 (BASE BID)

PLAN NORTH

REPAIR NOTES:

1. REMOVE ALL TRASH, DEBRIS, VEGETATION, AND ABANDONED EQUIPMENT/MATERIALS FROM EACH ROOF AREA.
2. CLEAR OUT ALL EXTERIOR DRAINAGE OUTLETS (GUTTERS, DRAINS, SCUPPERS, DOWNSPOUTS, ETC).
3. PROVIDE ROOF MEMBRANE REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT) (AVERAGE SIZE 2' X 2', FOR BLISTERS/DEFICIENCIES).
4. PROVIDE BASE FLASHING REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT).
5. PROVIDE ROOF DRAIN FLASHING AT ALL LOCATIONS USING PMMA SYSTEM WITH FABRIC REINFORCING. REINSTALL EXISTING CLAMPING RING, PROVIDE NEW STAINLESS STEEL BOLTS, FLOOD TEST ASSEMBLY AND THEN REINSTALL STRAINER.
6. CLEAR OUT ALL PITCH PANS, OR REPLACE WITH NEW STAINLESS STEEL PITCH PANS. PROVIDE 100% SOLIDS POURABLE SEALER AND PROVIDE SLOPED STAINLESS STEEL UMBRELLA/HEAD OVER PITCH PAN.

CORE SAMPLE SUMMARY

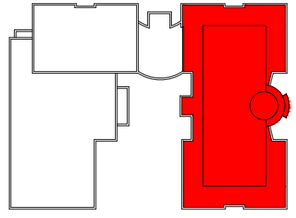
A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.

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

ITEM	DESCRIPTION
AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 3/4" GYPSUM - 1/2" METAL DECK TOTAL THICKNESS = 4 1/2"
AS1-	TOTAL THICKNESS = 4 1/2"
BR1-	SAME AS AR1

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).



KEY PLAN

10' 5' 0 10' 20'

GRAPHIC SCALE

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

Richard L. Cook
LEED AP
#1026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

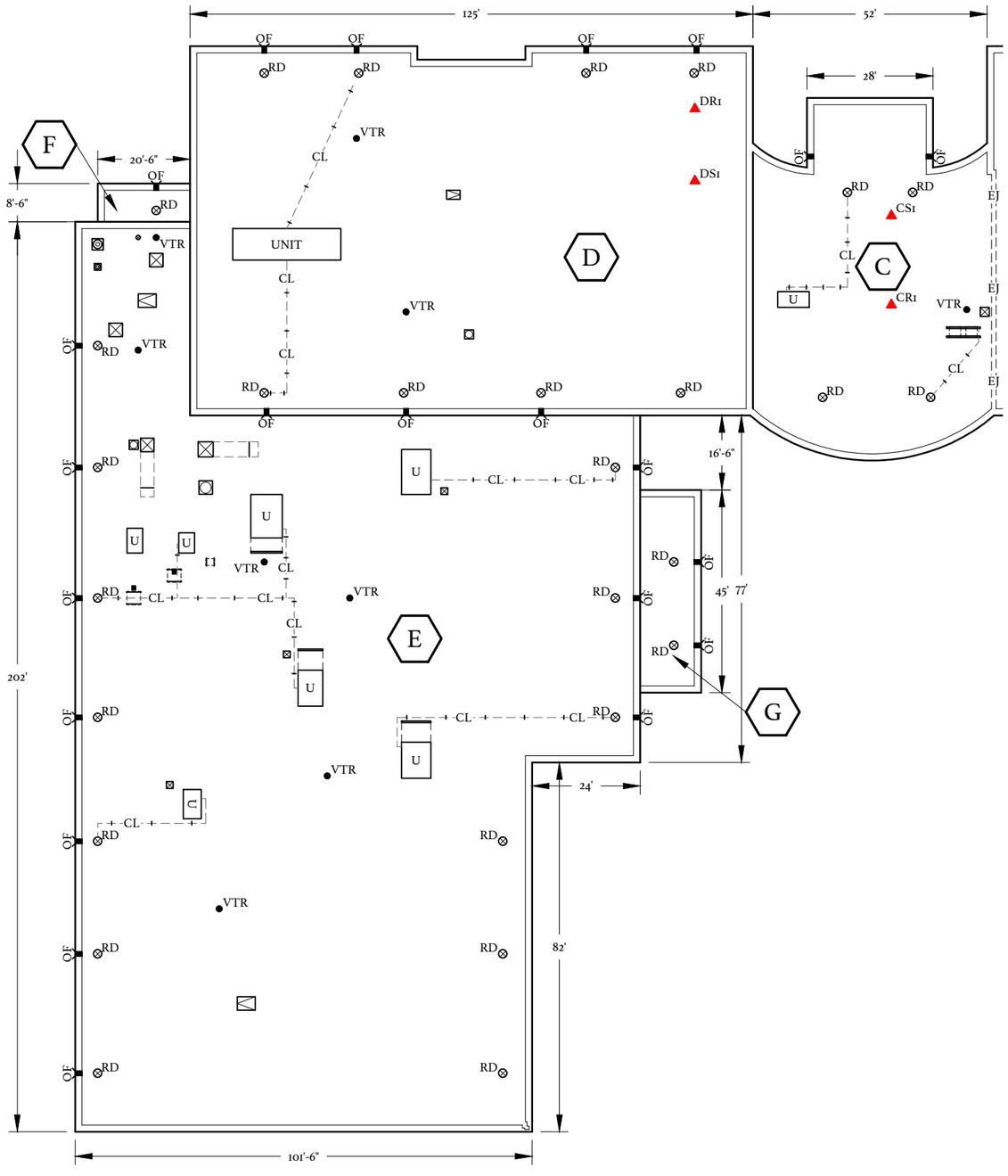
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

REPAIR ROOF
PLAN AREAS
A, A1, A2, A3, & B
BUILDING 1100
(BASE BID)

R807

SHEET 54 OF 85

CONSTRUCTION DOCUMENTS



REPAIR ROOF PLAN
AREAS C, D, E, F, & G
BUILDING 1100

PLAN NORTH

REPAIR NOTES:

1. REMOVE ALL TRASH, DEBRIS, VEGETATION, AND ABANDONED EQUIPMENT/MATERIALS FROM EACH ROOF AREA.
2. CLEAR OUT ALL EXTERIOR DRAINAGE OUTLETS (GUTTERS, DRAINS, SCUPPERS, DOWNSPOUTS, ETC).
3. PROVIDE ROOF MEMBRANE REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT) (AVERAGE SIZE 2' X 2', FOR BLISTERS/DEFICIENCIES).
4. PROVIDE BASE FLASHING REPAIRS BASED ON THE QUANTITIES INCLUDED (AREAS TO BE MARKED/IDENTIFIED AT THE PRE-ROOFING MEETING/SITE VISIT).
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CORE SAMPLE SUMMARY

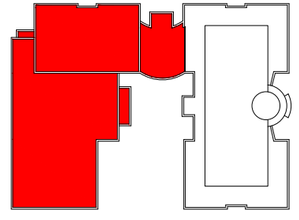
A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.

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

ITEM	DESCRIPTION
CR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1 1/2" POLYISOCYANURATE - 3" MEMBRANE PERLITE - 1" POLYISOCYANURATE - 2" METAL DECK TOTAL THICKNESS = 8 1/2"
CS1-	TOTAL THICKNESS = 8 1/2"
DR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 3/4" POLYISOCYANURATE - 2 3/4" GYPSUM - 1/2" METAL DECK TOTAL THICKNESS = 4 1/2"
DS1-	TOTAL THICKNESS = 4 1/2"

NOTES:

1. ALL ROOFS ARE GRAVEL SURFACED BUILT UP ROOF SYSTEMS (GBUR).



KEY PLAN

30' 20' 10' 0 15' 30' 60'

GRAPHIC SCALE

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

Richard L. Cook IV
LICENSED
14026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

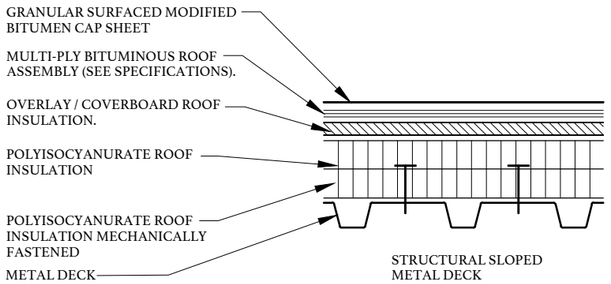
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

REPAIR ROOF
PLAN AREAS
C, D, E, F, & G
BUILDING 1100

R808

SHEET 55 OF 85

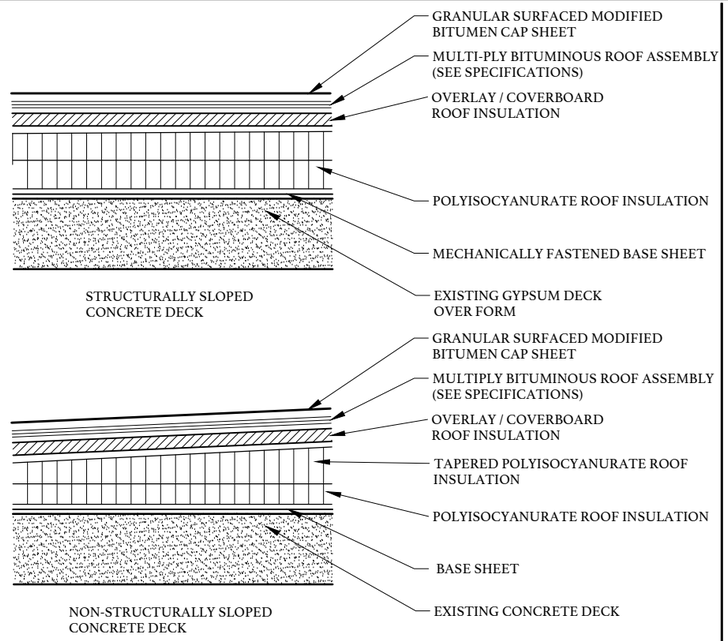
CONSTRUCTION DOCUMENTS



NOTES:

1. SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM

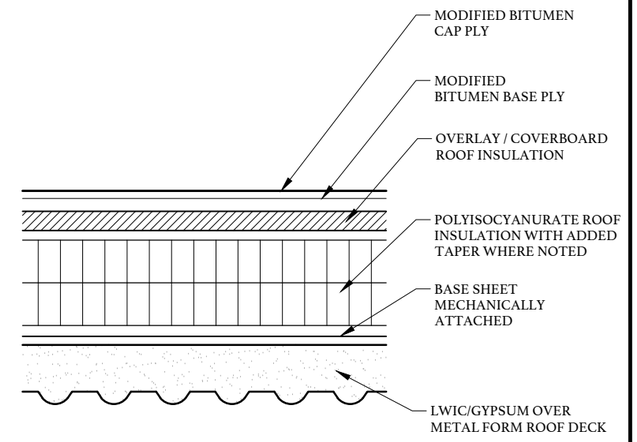
1 / R901 — MODIFIED BITUMEN ROOF ASSEMBLY
NOT TO SCALE (TYPICAL)



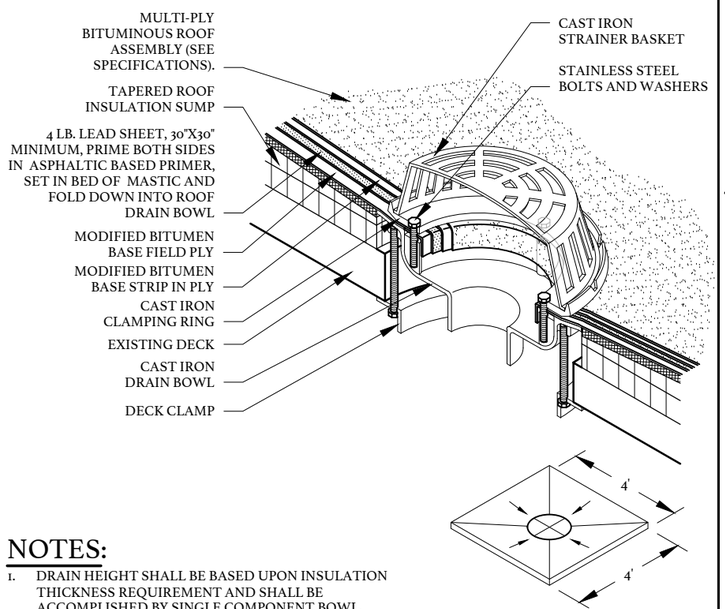
NOTES:

1. SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM

2 / R901 — MODIFIED BITUMEN ROOF ASSEMBLY
NOT TO SCALE (TYPICAL)



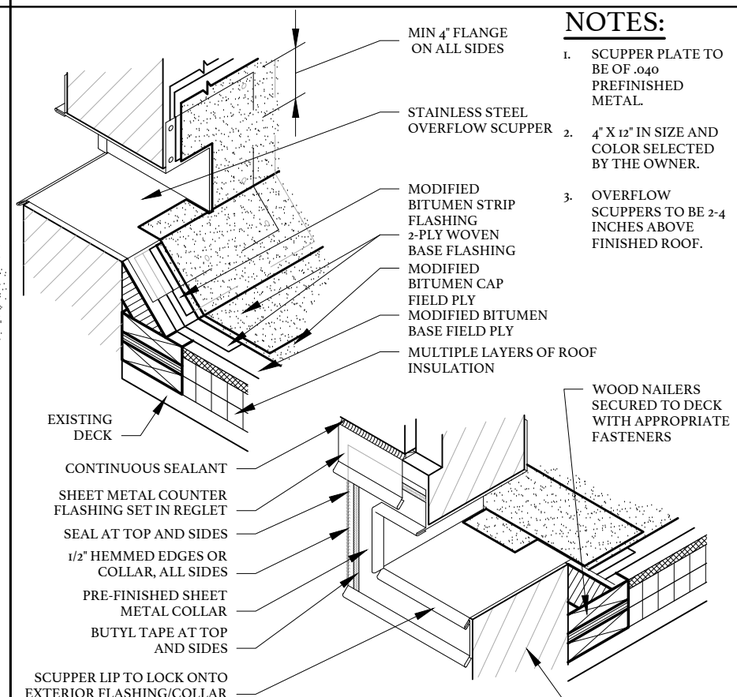
3 / R901 — ROOF ASSEMBLY
NOT TO SCALE (TYPICAL)



NOTES:

1. DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENT AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.

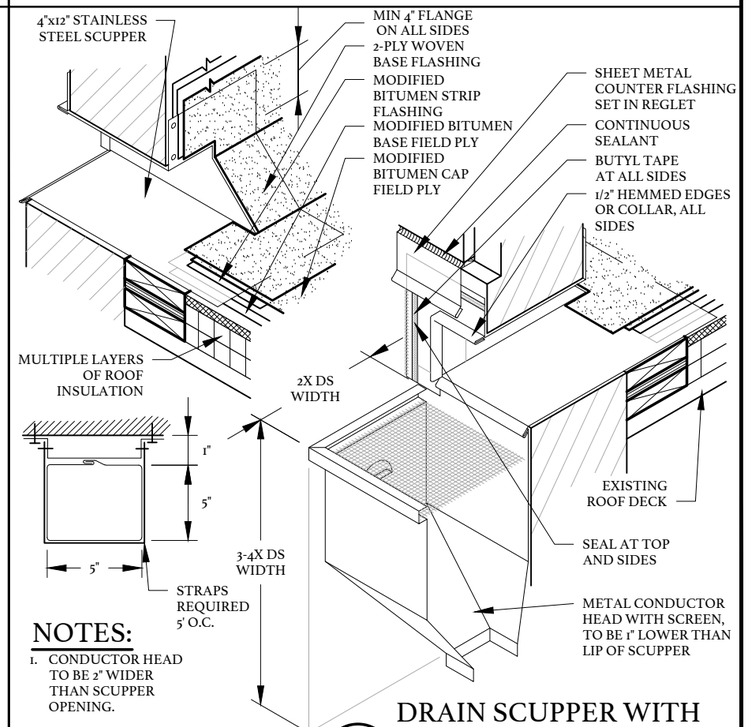
4 / R901 — ROOF DRAIN
NOT TO SCALE (TYPICAL)



NOTES:

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

5 / R901 — OVERFLOW SCUPPER
NOT TO SCALE (TYPICAL)



NOTES:

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

6 / R901 — DRAIN SCUPPER WITH CONDUCTOR HEAD
NOT TO SCALE (TYPICAL)

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1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

Richard L. Cook IV — Registered Roof Consultant — 2026

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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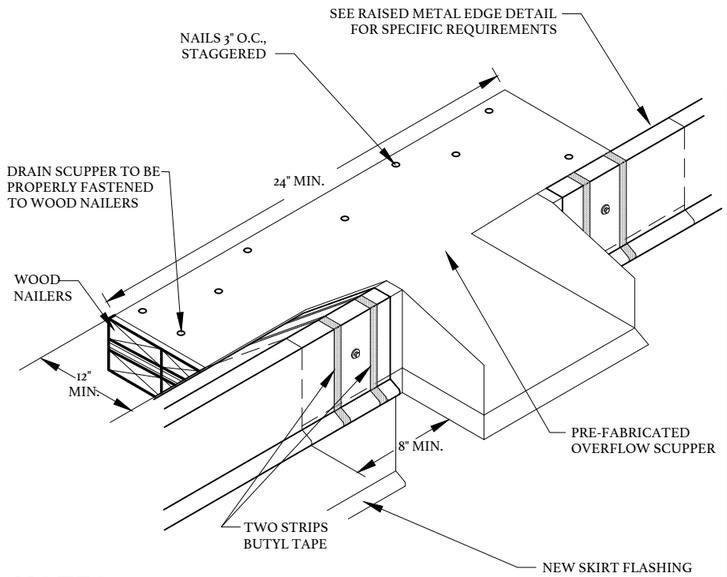
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

DETAILS / SECTIONS

R901

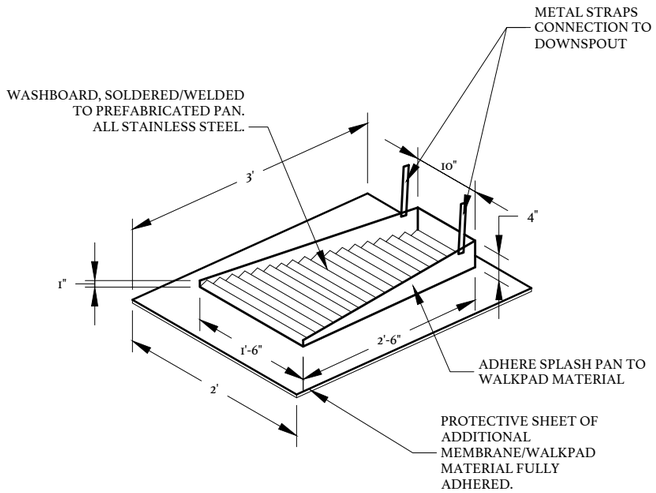
CONSTRUCTION DOCUMENTS



NOTES:

1. DRAIN/SCUPPER TO BE MADE OF MIN. 24 GAGE STAINLESS STEEL WITH ALL SEAMS/LAPS WELDED WATERTIGHT.

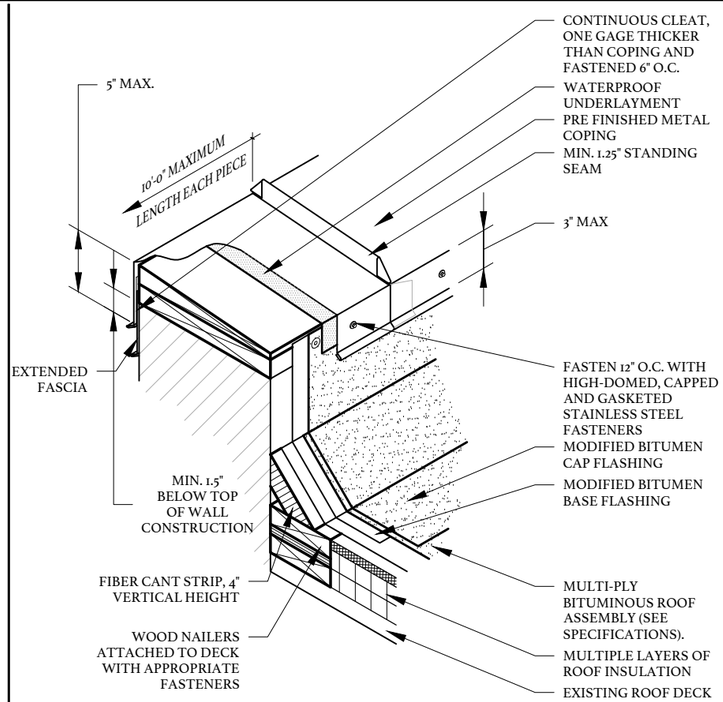
7 / R902 — PRE-FABRICATED SCUPPER AT RAISED METAL EDGE
NOT TO SCALE (TYPICAL)



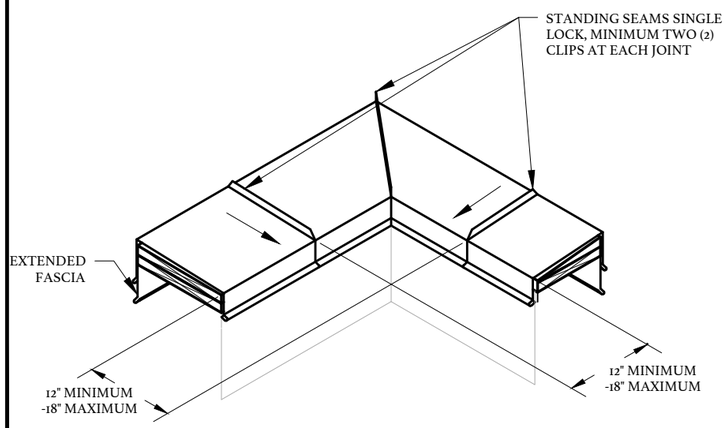
NOTES:

1. PROVIDE AT ALL LOCATIONS WHERE DOWNSPOUT DRAINS ONTO ROOF.

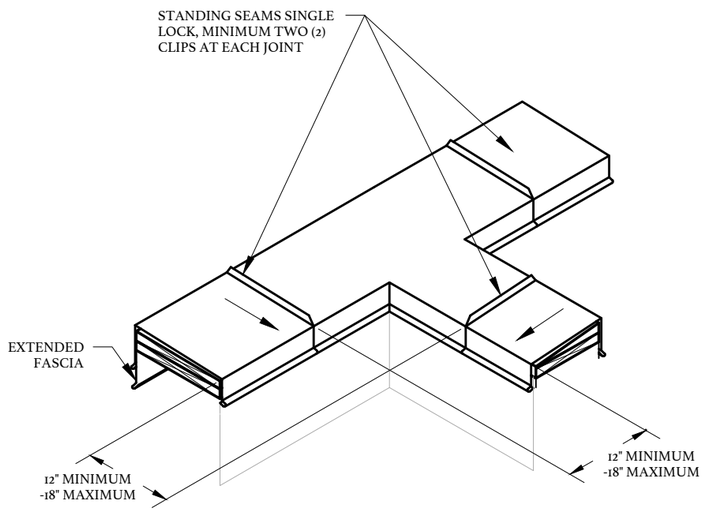
8 / R902 — METAL SPLASH PAN
NOT TO SCALE (TYPICAL)



9 / R902 — BASE FLASHING AT PARAPET
NOT TO SCALE (TYPICAL)



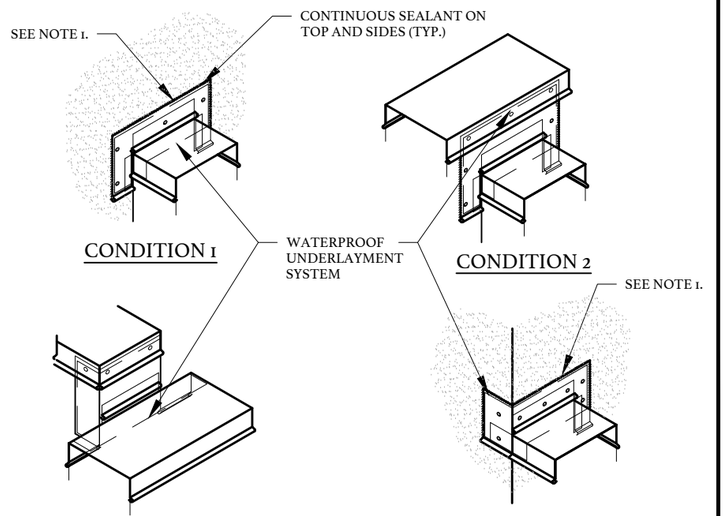
10 / R902 — COPING PREFABRICATED CORNER
NOT TO SCALE (TYPICAL)



11 / R902 — COPING INTERSECTION
NOT TO SCALE (TYPICAL)

NOTES:

1. CUT REGLET / RAGGLE TO DEPTH OF 1 1/4", INSERT LEAD WEDGES 12" O.C. AND PROVIDE BACKER ROD AND SEALANT.
2. WATERPROOF UNDERLAYMENT UNDER ALL SHEET METAL TRANSITION UP VERTICAL SURFACES, AROUND CORNERS AND ONTO HORIZONTAL SURFACES (MINIMUM FOUR INCHES).



12 / R902 — COPING AND AREA DIVIDER TERMINATIONS
NOT TO SCALE (TYPICAL)

The BUILDING ENVELOPE ENCLOSURE Group
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Richard L. Cook IV — License 17026 — Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

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CHECKED:	JCG
DRAWN:	KAM
REVISION:	

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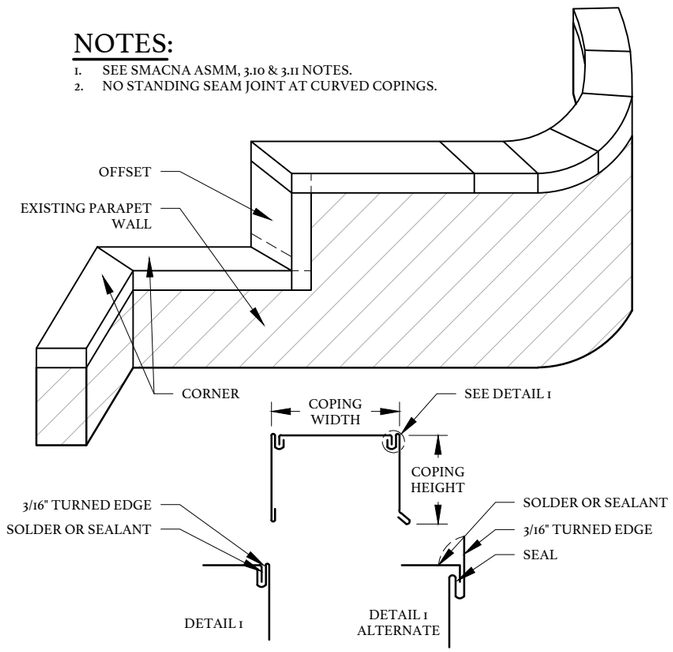
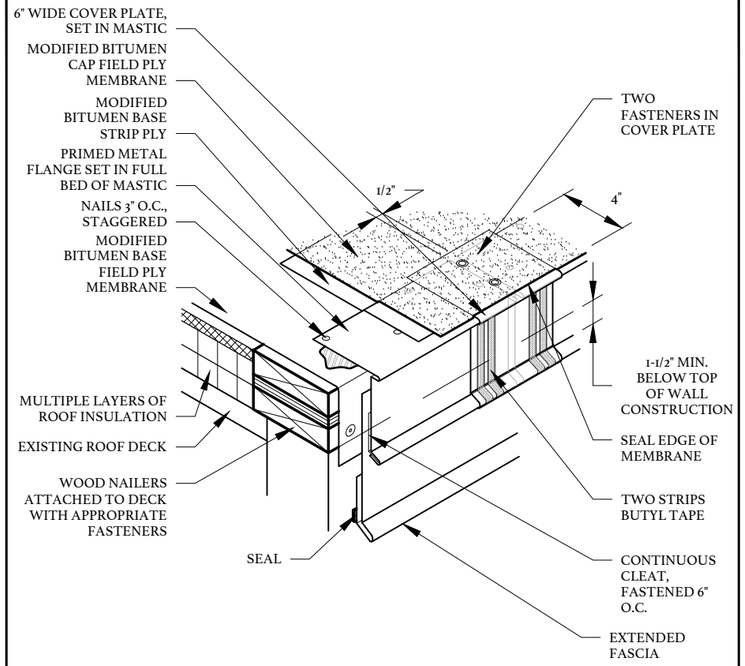
NOTES:

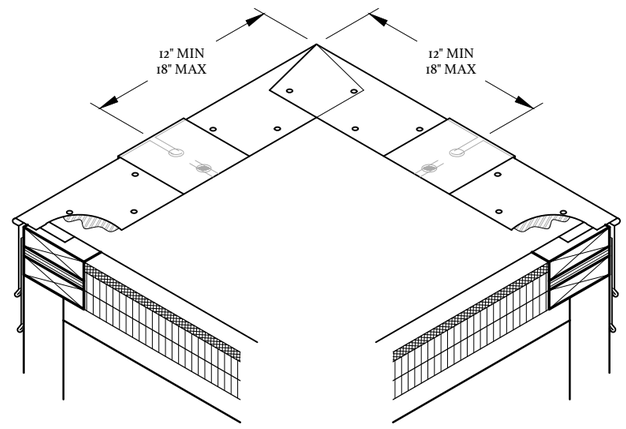
1. SEE SMACNA ASMM, 3.10 & 3.11 NOTES.
2. NO STANDING SEAM JOINT AT CURVED COPINGS.



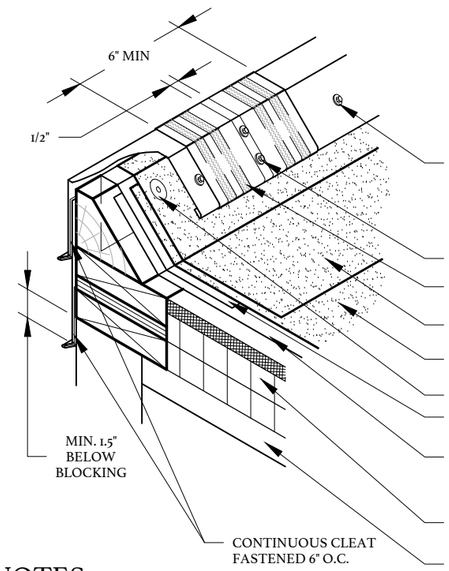
13 R903 — CURVED COPING — NOT TO SCALE (TYPICAL)



14 R903 — METAL ROOF EDGE — NOT TO SCALE (TYPICAL)



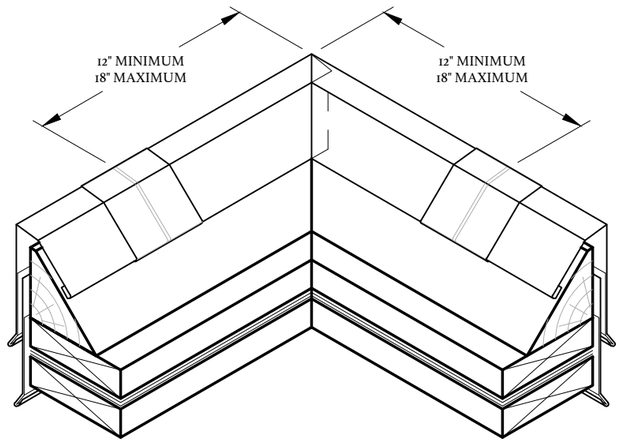
15 R903 — PREFABRICATED METAL ROOF EDGE CORNER — NOT TO SCALE (TYPICAL)



NOTES:

1. SECURE ROOF EDGE WITH TWO FASTENERS AT CENTER OF EACH SECTION AND GASKETED FASTENERS 18" ON CENTER.
2. ATTACH NAILER TO MASONRY WALL. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
3. BASE SHEET TO EXTEND OVER OUTSIDE EDGE TO COVER NAILER.

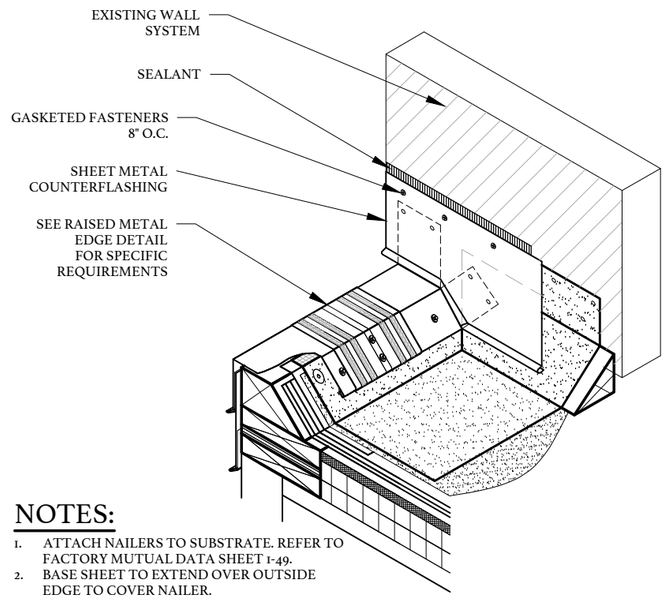
16 R903 — RAISED METAL EDGE — NOT TO SCALE (TYPICAL)



NOTES:

1. SEE RAISED METAL EDGE DETAIL.

17 R903 — RAISED METAL EDGE PREFABRICATED CORNER WITH EXTENDED FASCIA — NOT TO SCALE (TYPICAL)



NOTES:

1. ATTACH NAILERS TO SUBSTRATE. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
2. BASE SHEET TO EXTEND OVER OUTSIDE EDGE TO COVER NAILER.
3. NAILER LAYOUT WILL VARY BASED ON THE TAPERED INSULATION REQUIREMENTS (THICKNESS) AT PERIMETER.

18 R903 — RAISED METAL EDGE TERMINATION INTO WALL — NOT TO SCALE (TYPICAL)

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DRAWN:	KAM
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DETAILS / SECTIONS

R903

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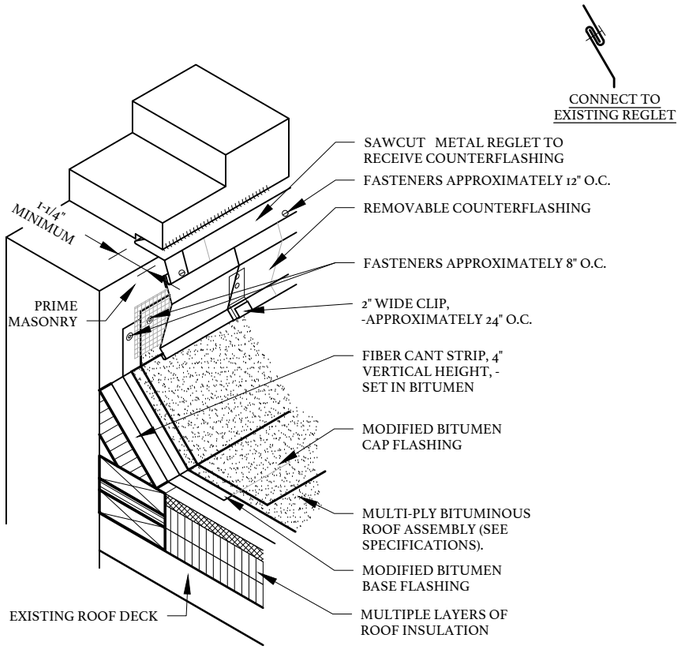
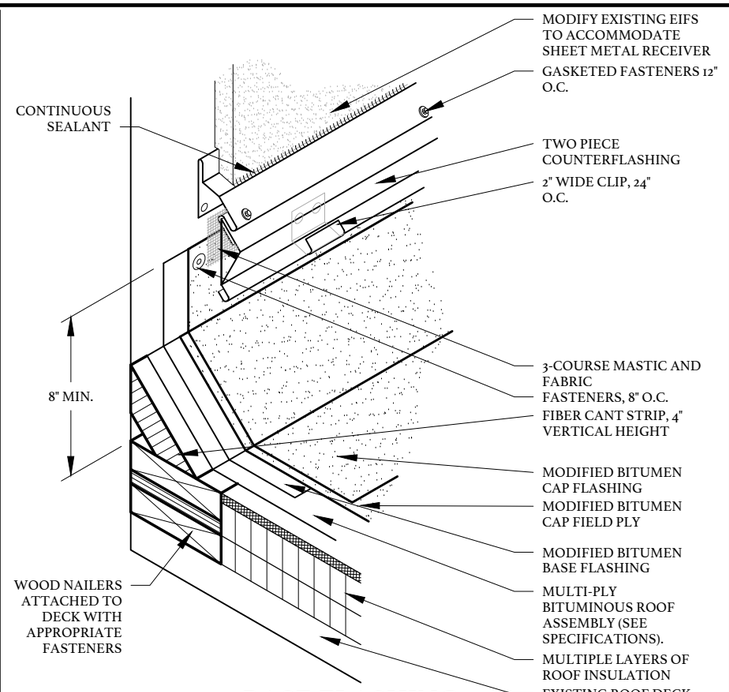
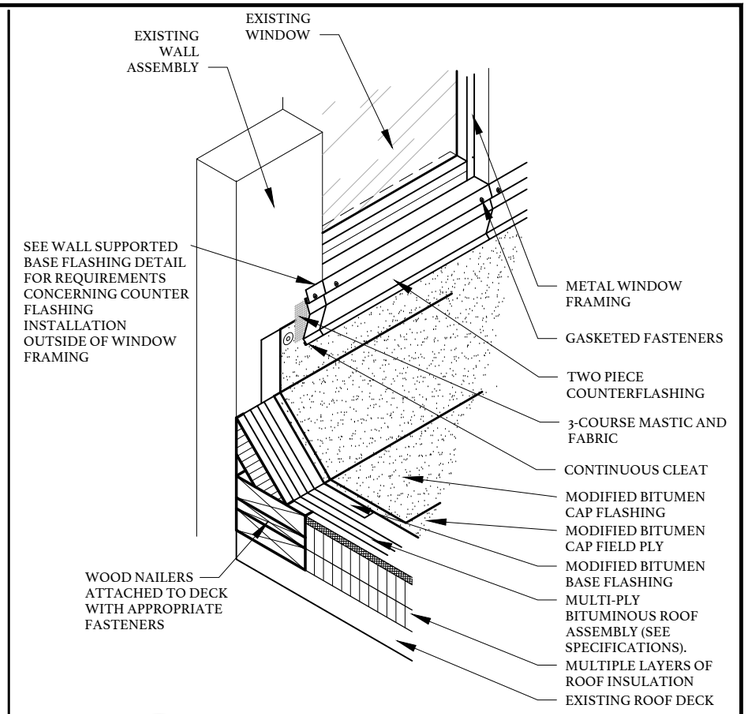
CONSTRUCTION DOCUMENTS



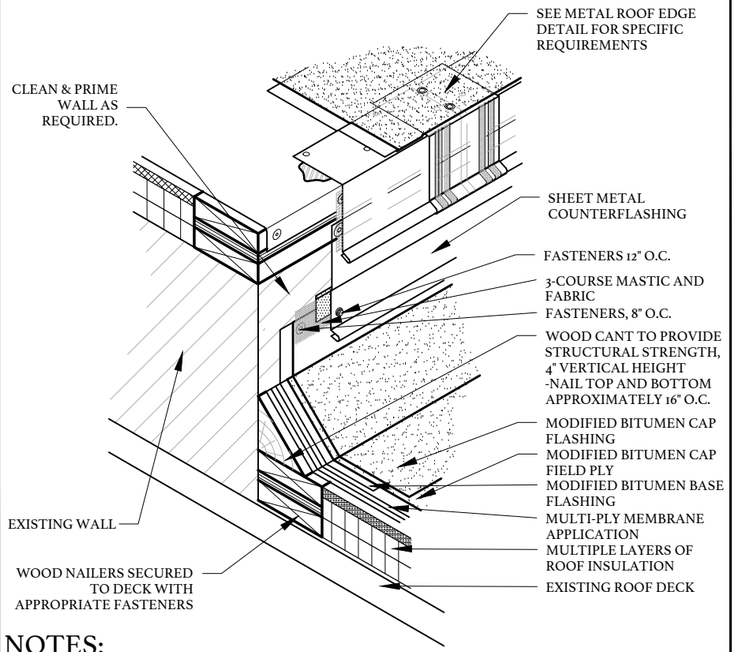
19 R904 WALL SUPPORTED BASE FLASHING WITH REGLET
NOT TO SCALE (TYPICAL)



20 R904 BASE FLASHING AT EIFS WALL
NOT TO SCALE (TYPICAL)



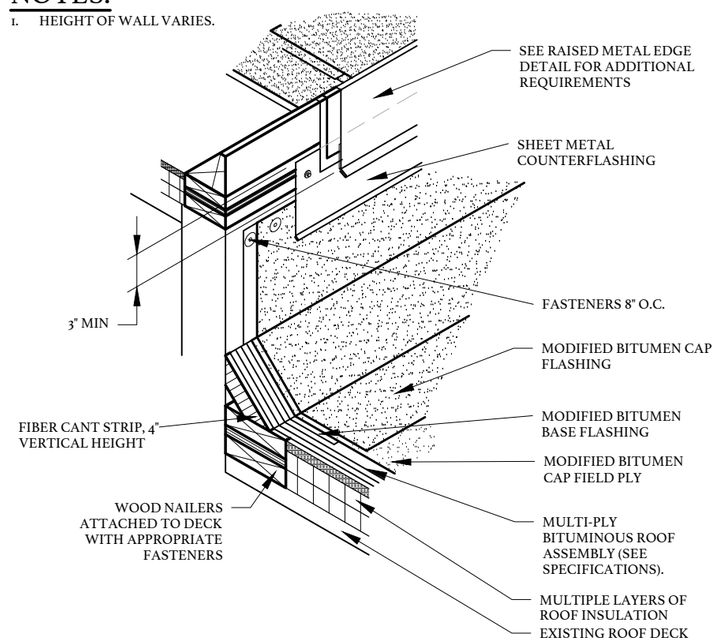
21 R904 METAL FLASHING AT WINDOW
NOT TO SCALE (TYPICAL)



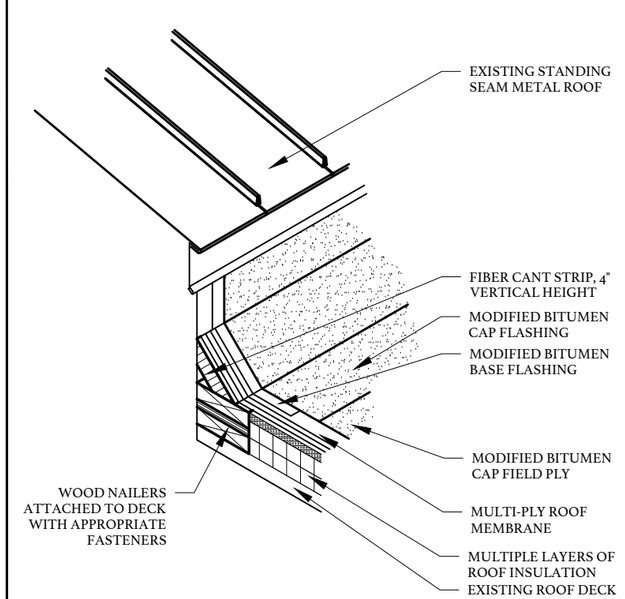
NOTES:
1. HEIGHT OF WALLS VARY.

22 R904 BASE FLASHING AT METAL ROOF EDGE
NOT TO SCALE (TYPICAL)

NOTES:
1. HEIGHT OF WALL VARIES.



23 R904 BASE FLASHING AT RAISED METAL EDGE
NOT TO SCALE (TYPICAL)



24 R904 BASE FLASHING AT METAL ROOF
NOT TO SCALE (TYPICAL)

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REVISION:	

DETAILS / SECTIONS

R904

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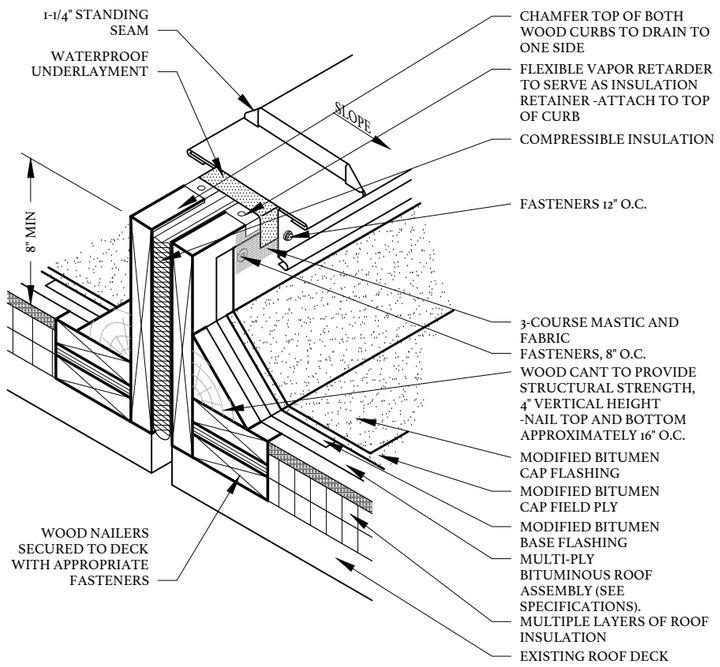
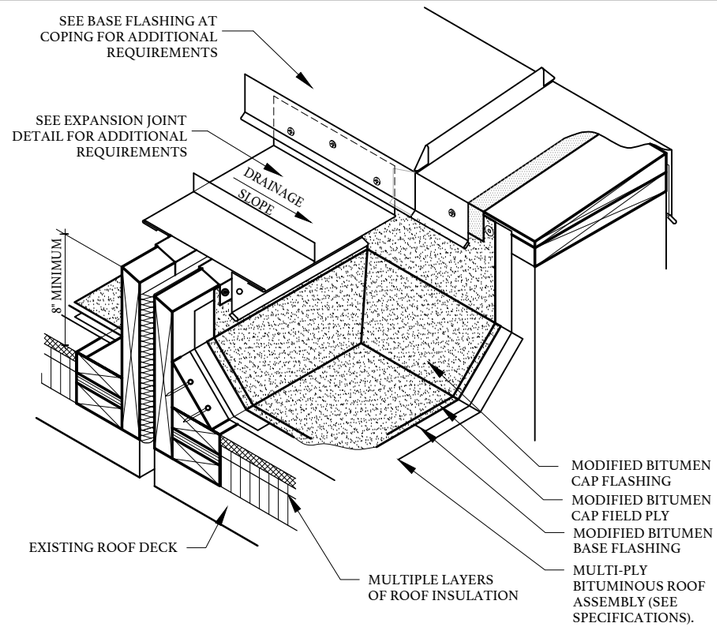
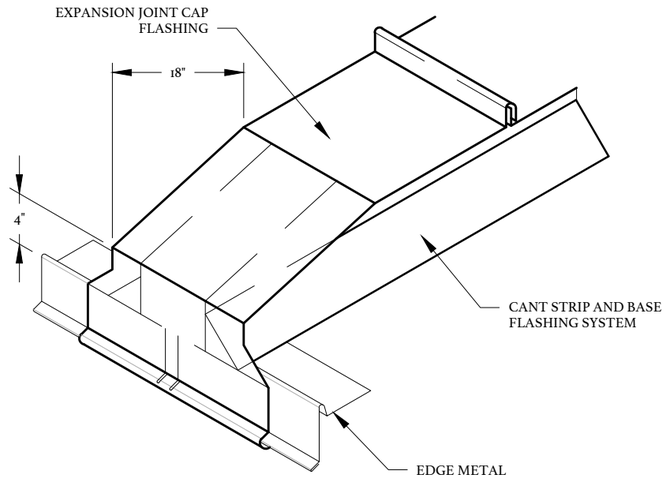


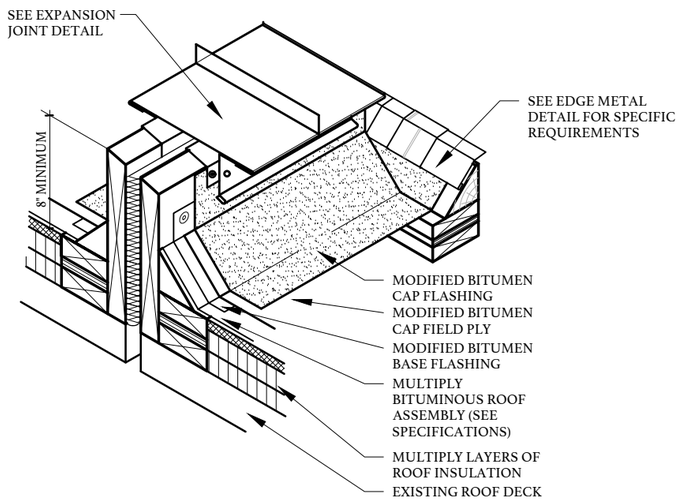
25 R905 EXPANSION JOINT
NOT TO SCALE (TYPICAL)



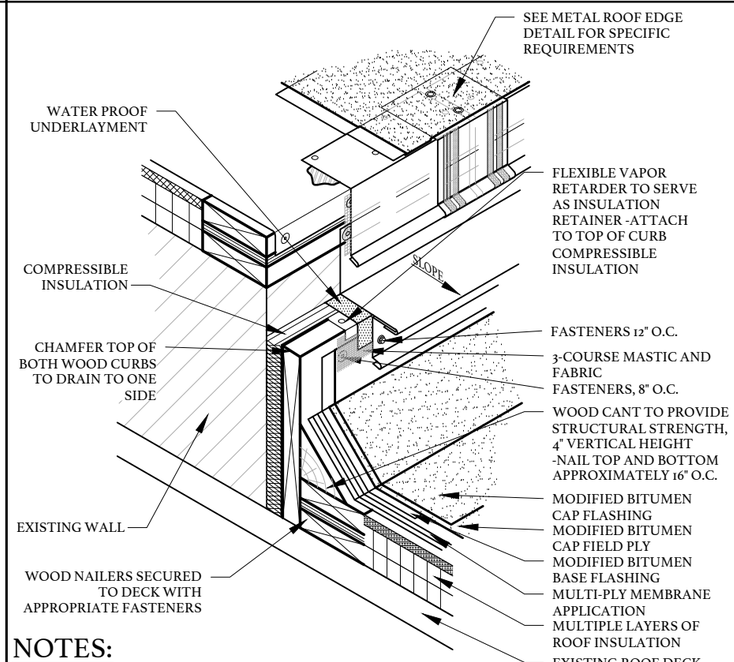
26 R905 EXPANSION JOINT TERMINATION
NOT TO SCALE (TYPICAL)



27 R905 EXPANSION JOINT TERMINATION INTO EDGE
NOT TO SCALE (TYPICAL)

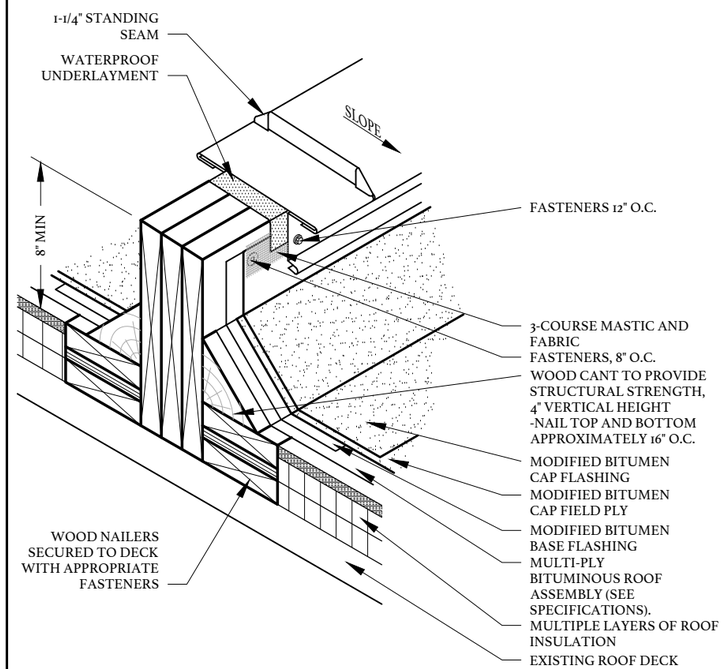


28 R905 AREA DIVIDER/EXPANSION JOINT TERMINATION TO EDGE
NOT TO SCALE (TYPICAL)



NOTES:
1. HEIGHT OF WALLS VARY.

29 R905 EXPANSION JOINT AT ROOF TRANSITION
NOT TO SCALE (TYPICAL)



30 R905 AREA DIVIDER
NOT TO SCALE (TYPICAL)

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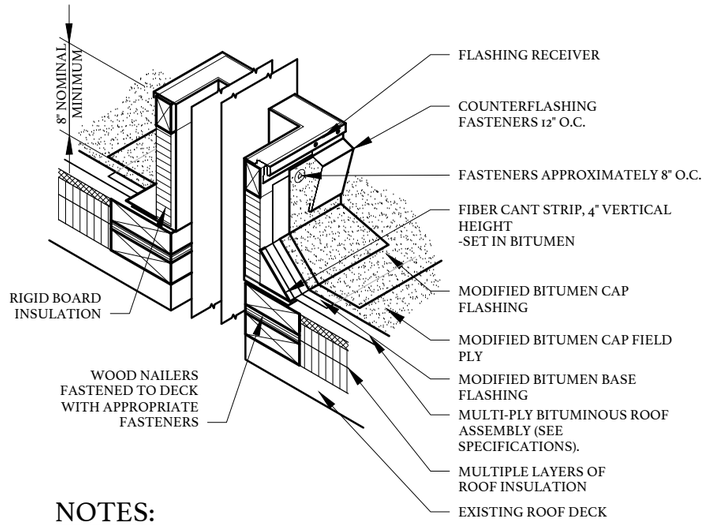
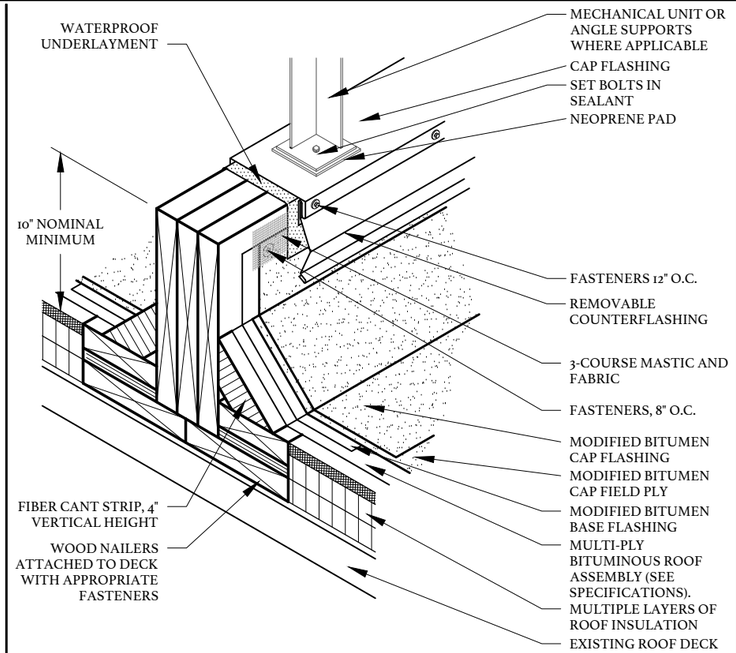


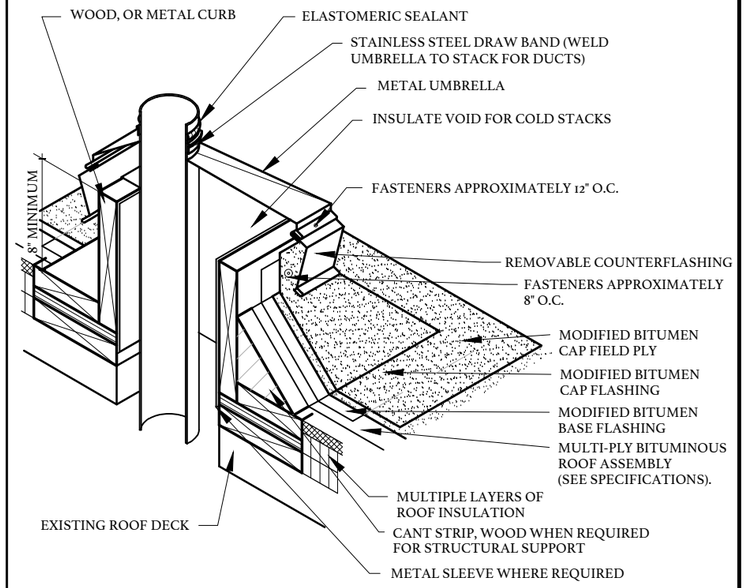
NOTES:

1. REMOVE AND REINSTALL HOODS/COVERS, WITH MINIMUM TWO (2) STAINLESS STEEL FASTENERS, EACH SIDE.

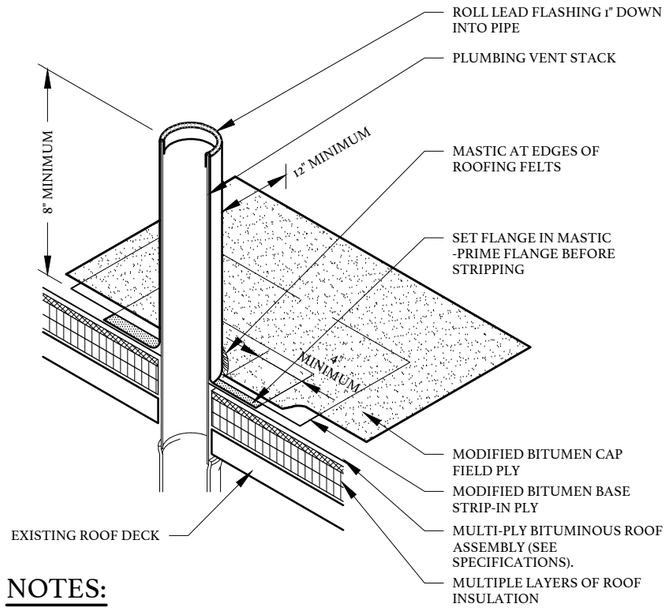
31 R906 — METAL CURB FOR ROOF PENETRATIONS
NOT TO SCALE (TYPICAL)



32 R906 — EQUIPMENT SUPPORT
NOT TO SCALE (TYPICAL)



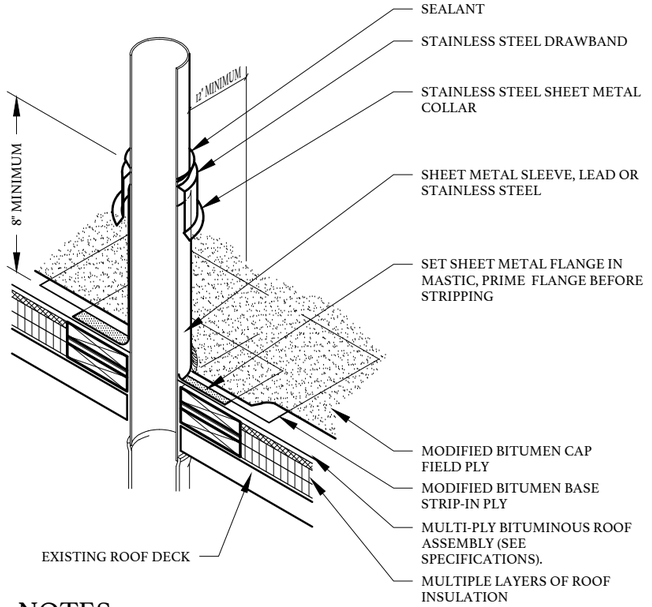
33 R906 — STACK FLASHING
NOT TO SCALE (TYPICAL)



NOTES:

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

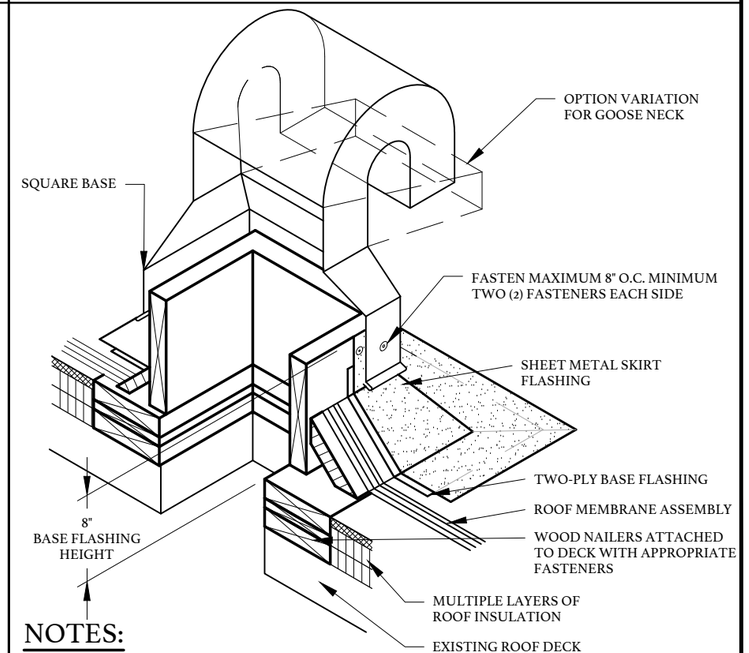
34 R906 — PLUMBING VENT FLASHING
NOT TO SCALE (TYPICAL)



NOTES:

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

35 R906 — PIPE PENETRATION
NOT TO SCALE (TYPICAL)



NOTES:

1. WOOD CURB REQUIRED.
2. ALL SEAMS OF GOOSENECK/HOOD TO BE RIVETED AND SOLDERED AS REQUIRED IN SECTION 07600.

36 R906 — GOOSENECK MECHANICAL CURB
NOT TO SCALE (TYPICAL)

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DRAWN:	KAM
REVISION:	

DETAILS / SECTIONS

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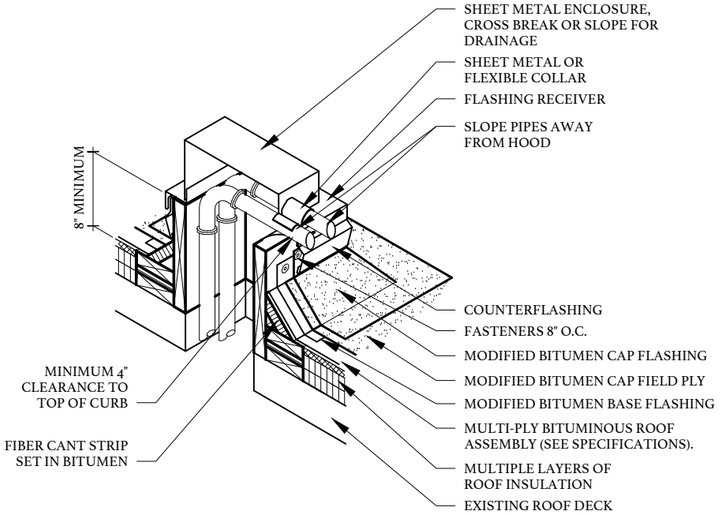
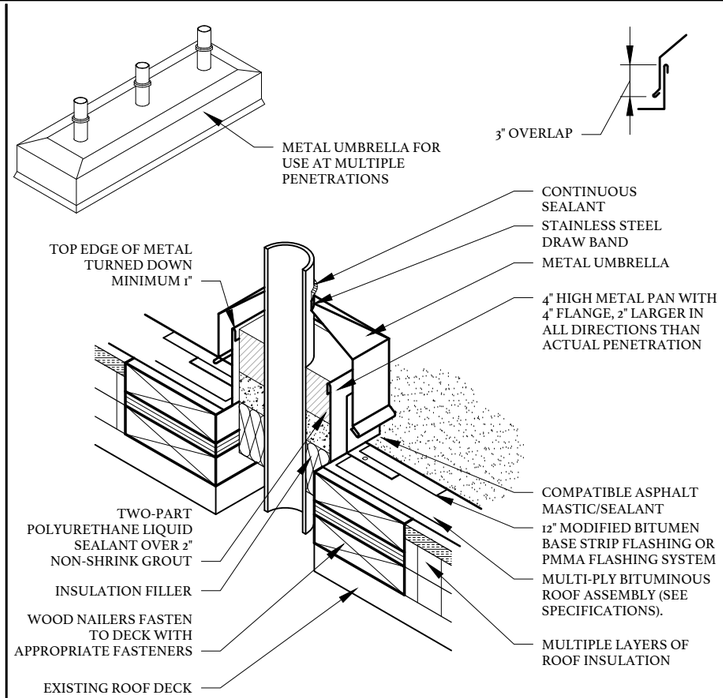
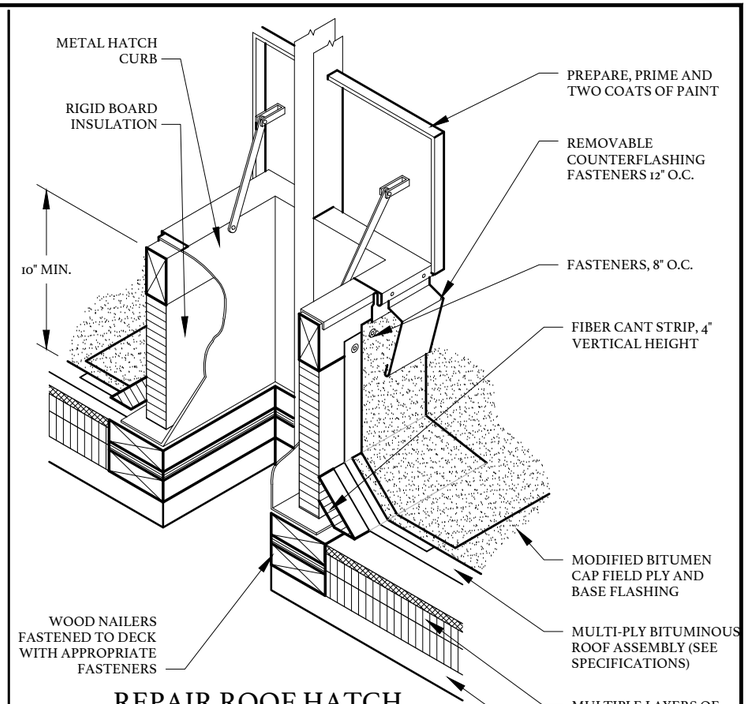


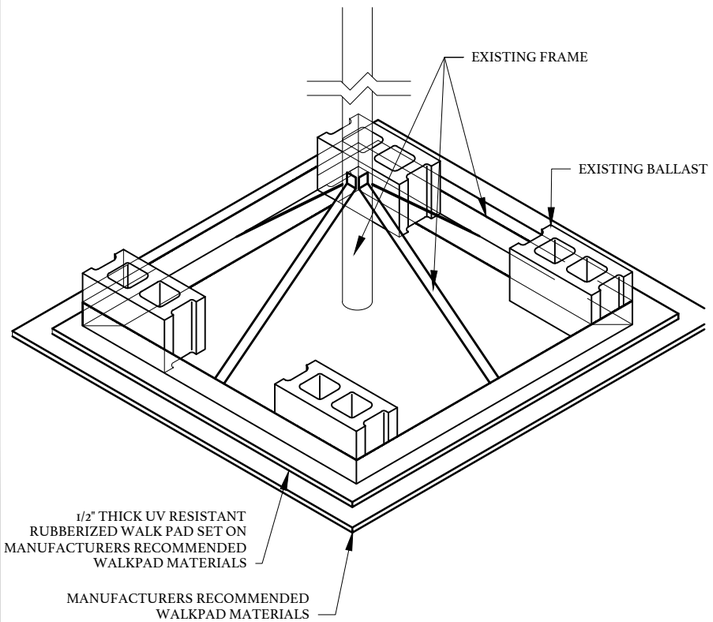
37 R907 — CURB FOR PIPES THRU ROOF
NOT TO SCALE (TYPICAL)



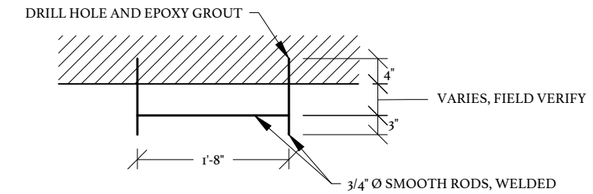
38 R907 — PITCH PAN WITH UMBRELLA
NOT TO SCALE (TYPICAL)



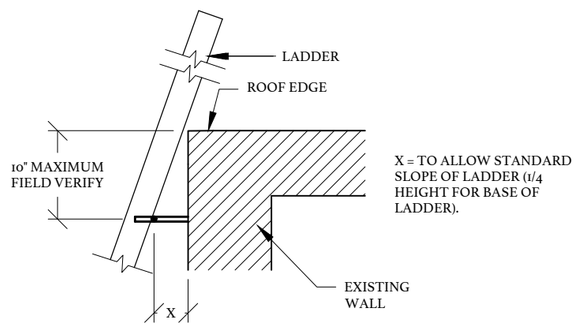
39 R907 — REPAIR ROOF HATCH CURB DETAIL
NOT TO SCALE (TYPICAL)



40 R907 — WALKPAD SUPPORT FOR DISH FRAME
NOT TO SCALE (TYPICAL)

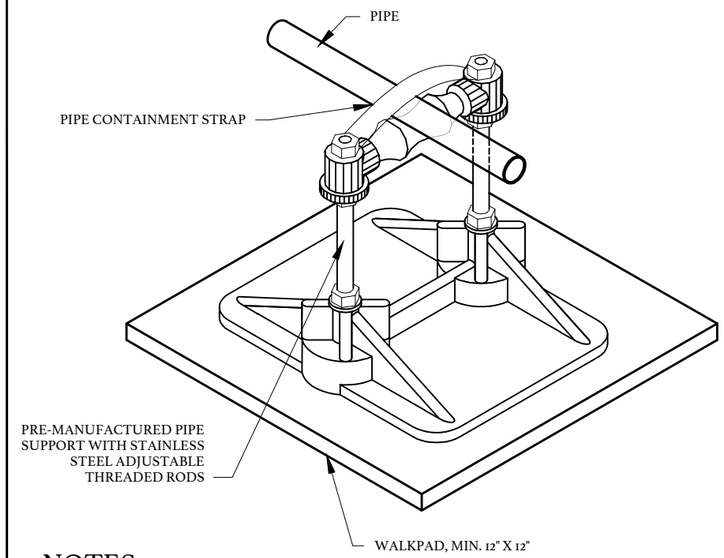


PLAN VIEW



ELEVATIONS

41 R907 — EXTERIOR WALL MOUNTED LADDER BRACKET
NOT TO SCALE (TYPICAL)



NOTES:

1. USE MANUFACTURERS MULTIPLE PIPE SUPPORT SYSTEMS WHERE APPLICABLE.
2. THIS DETAIL FOR PIPES 2" DIAMETER OR LARGER.
3. TO BE INSTALLED AT 4' O.C. INTERVALS AND AT TURNS/TRANSITIONS.
4. BOTH WALKPAD AND SUPPORT SHALL BE ADHERED WITH ROOF MASTIC.

42 R907 — ELECTRICAL/GAS/PIPE SUPPORT
NOT TO SCALE (TYPICAL)

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

Richard L. Cook IV — Registered Roof Consultant — 26

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

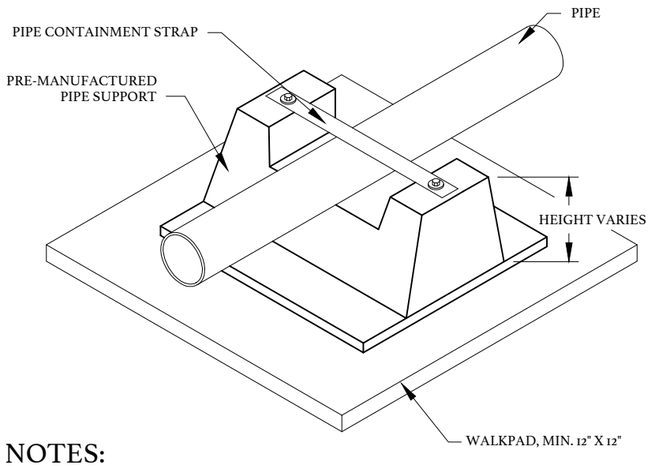
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

DETAILS / SECTIONS

R907

SHEET 62 OF 85

CONSTRUCTION DOCUMENTS

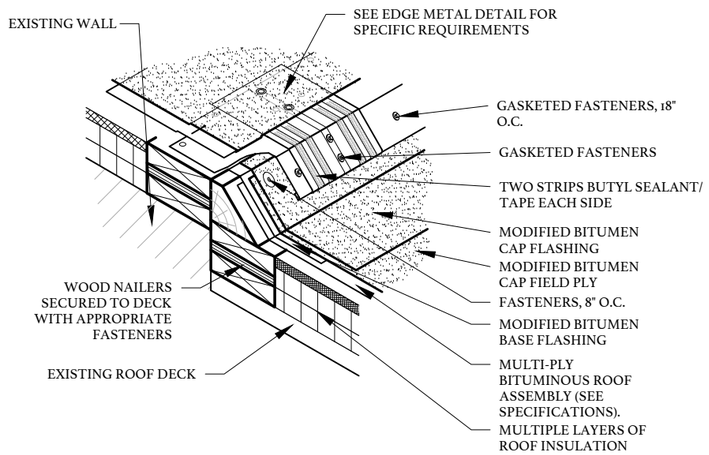


NOTES:

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.

43 R908 PREFABRICATED CONDUIT/PIPE SUPPORT WITH PAD (< 2" Ø)

NOT TO SCALE (TYPICAL)

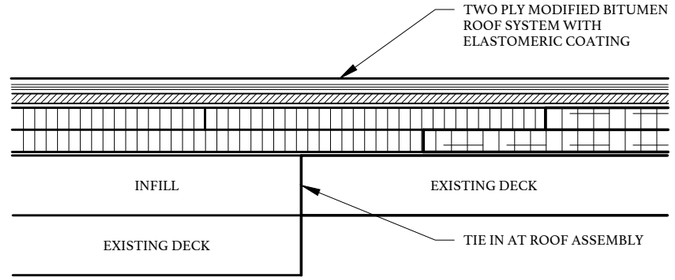


NOTES:

1. HEIGHT OF WALLS VARY.

44 R908 ROOF TRANSITION

NOT TO SCALE (TYPICAL)



NOTES:

1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS AND ASSEMBLIES WHERE EXISTING DECK IS TIED INTO WITH NO EXPANSION JOINT REQUIRED.
2. NEW ASSEMBLY TO MATCH THICKNESS OF EXISTING ASSEMBLY, INCLUDING COVERBOARD TO MATCH MEMBRANE THICKNESS.
3. EACH LAYER OF INSULATION STAGGERED/OFFSET FROM DECK JOINT.

45 R908 TIE IN AT ROOF ASSEMBLY INFILL

NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

46 R908 NOT USED

INTENTIONALLY LEFT BLANK

47 R908 NOT USED

INTENTIONALLY LEFT BLANK

48 R908 NOT USED

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

Richard L. Cook IV
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Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

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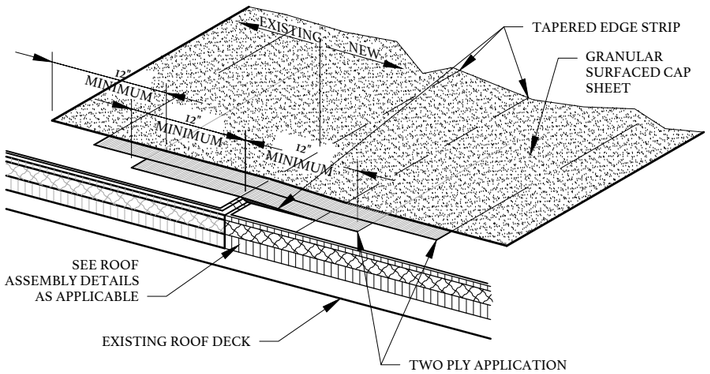
REVISION:	

DETAILS / SECTIONS

R908

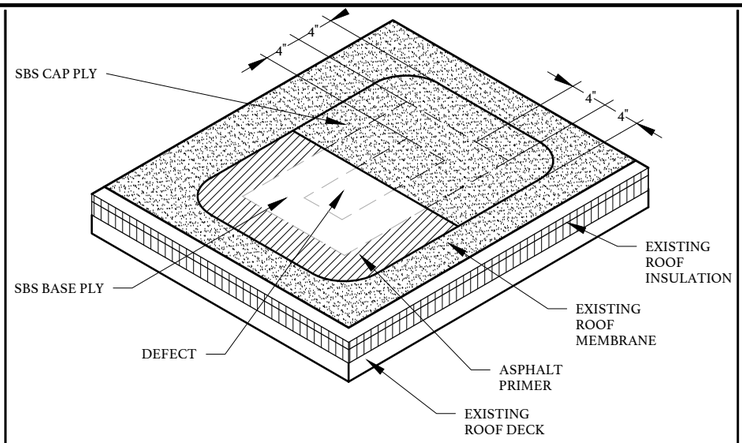
CONSTRUCTION DOCUMENTS



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 GBUR # 1.

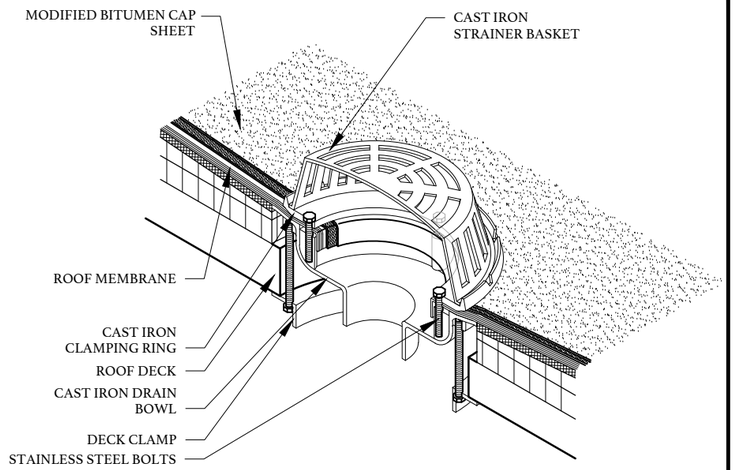
1 / R1001 — TIE-IN
NOT TO SCALE (TYPICAL)



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 PLIED 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.

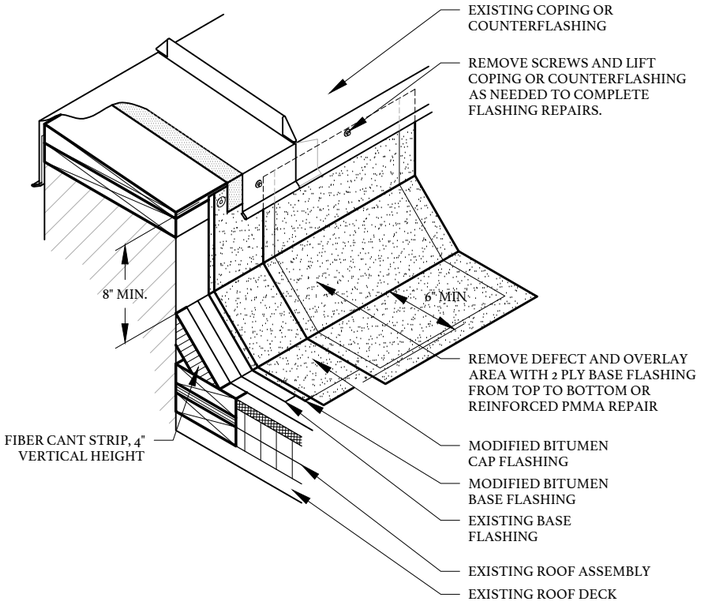
2 / R1001 — MEMBRANE REPAIR
NOT TO SCALE (TYPICAL)



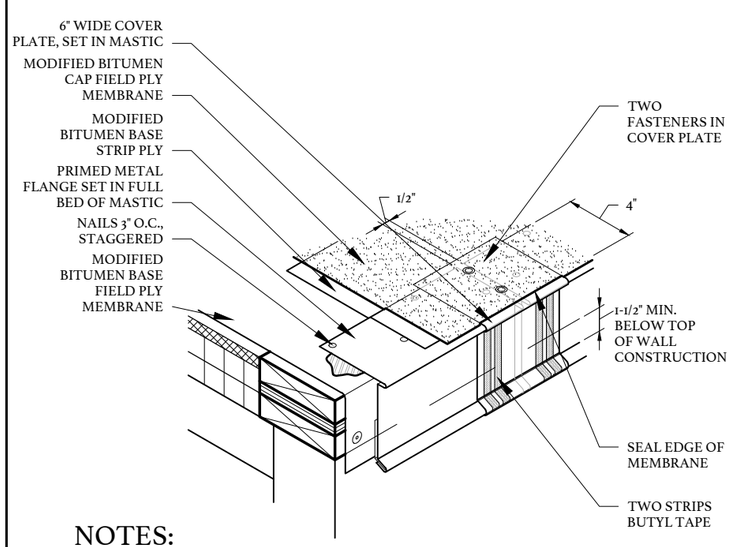
NOTES:

1. REMOVE ALL EXISTING AGGREGATE/GRANULAR SURFACING DOWN TO THE EXISTING ROOF MEMBRANE AND PRIME PER MANUFACTURERS INSTRUCTIONS.
2. PMMA FLASHING WITH REINFORCING FABRIC TO BE FULLY ADHERED TO EXTEND UNDER ROOF DRAIN CLAMPING RING.

3 / R1001 — ROOF DRAIN REPAIR
NOT TO SCALE (TYPICAL)



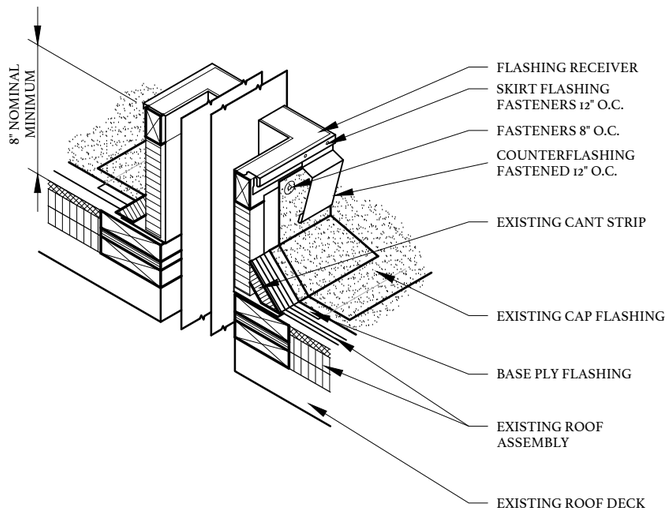
4 / R1001 — BASE FLASHING REPAIR AT PARAPET
NOT TO SCALE (TYPICAL)



NOTES:

1. REMOVE ROOFING TO PERMIT MASTIC, NEW COVER PLATE (TO MATCH FIELD CONDITIONS) SEAL, AND ROOF REPAIR.

5 / R1001 — METAL ROOF EDGE REPAIR
NOT TO SCALE (TYPICAL)



6 / R1001 — METAL CURB FOR ROOF PENETRATIONS
NOT TO SCALE (TYPICAL)

The BUILDING ENVELOPE ENCLOSURE Group
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

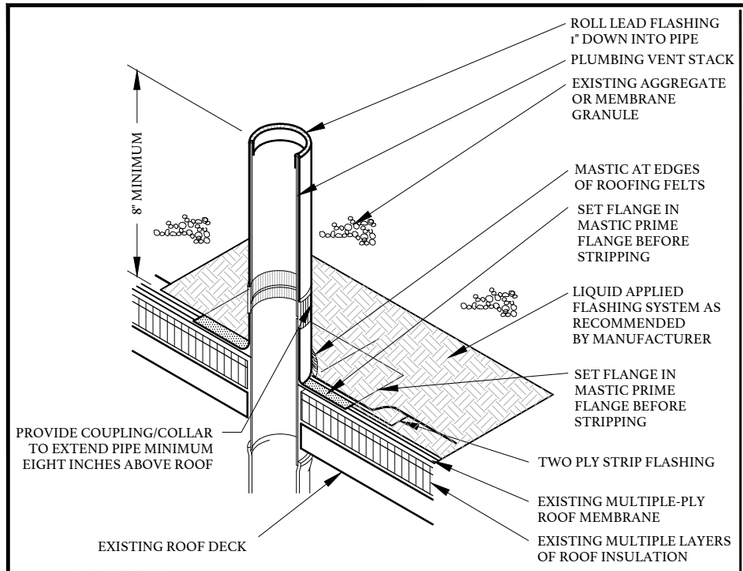
DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

REPAIR DETAILS / SECTIONS

R1001

SHEET 64 OF 85

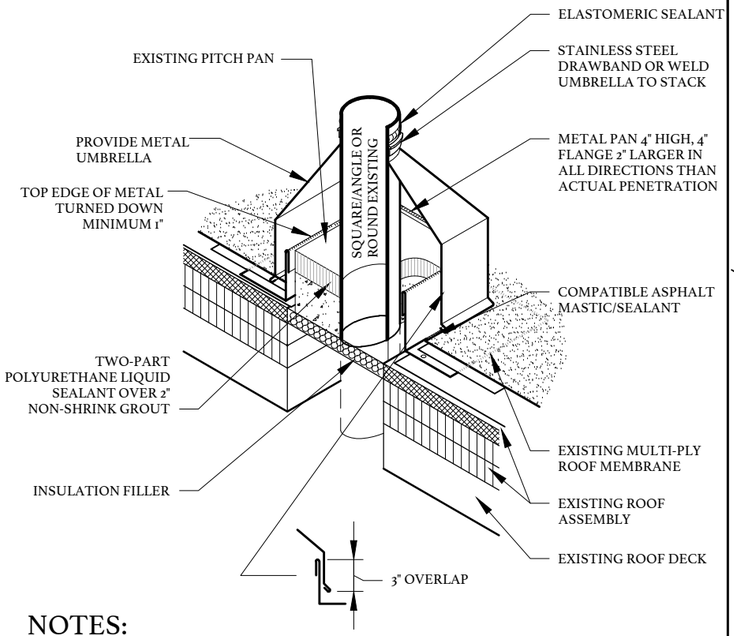
CONSTRUCTION DOCUMENTS



NOTES:

1. REMOVE LOOSE GRANULES, AND ALL AGGREGATE, 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 GBUR # 25
3. RAISE VTR USING CAST IRON PIPE AND COUPLING BELOW TO MINIMUM 8" HEIGHT ABOVE FINISHED ROOF.

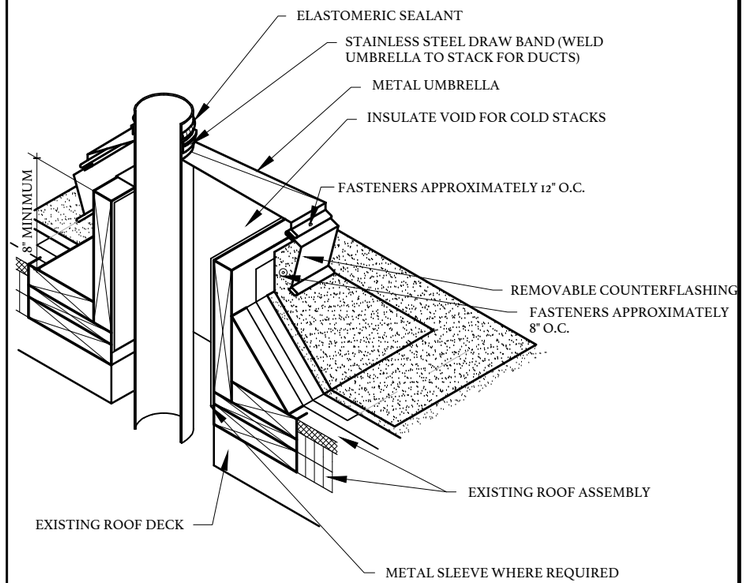
7 / R1002 — PIPE PLUMBING VENT FLASHING
NOT TO SCALE (TYPICAL)



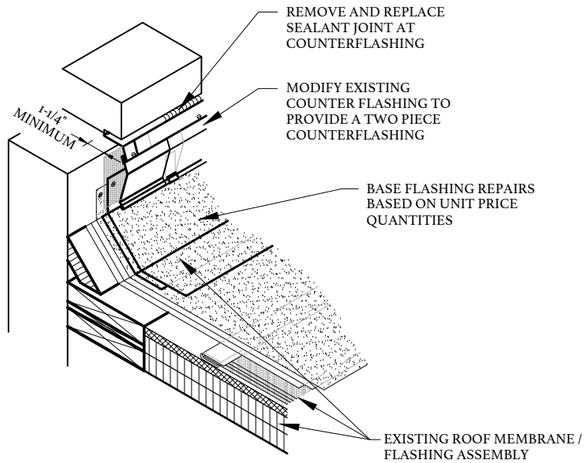
NOTES:

1. COMPLETELY CLEAN OUT OR REPLACE AND REFILL PITCH PANS AND PROVIDE SLOPED STAINLESS STEEL METAL UMBRELLA.

8 / R1002 — PITCH PAN W/UMBRELLA
NOT TO SCALE (TYPICAL)



9 / R1002 — STACK ON CURB REPAIR DETAIL
NOT TO SCALE (TYPICAL)



NOTES:

1. CUT OUT AND REMOVE ALL DAMAGED, WET DELAMINATED OR DETERIORATED MATERIALS PRIOR TO BASE FLASHING REPAIRS.

10 / R1002 — COUNTERFLASHING REPAIR DETAIL
NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

11 / R1002 — NOT USED

INTENTIONALLY LEFT BLANK

12 / R1002 — NOT USED

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

Richard L. Cook IV — License 17026 — Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS

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2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

REPAIR DETAILS / SECTIONS

R1002

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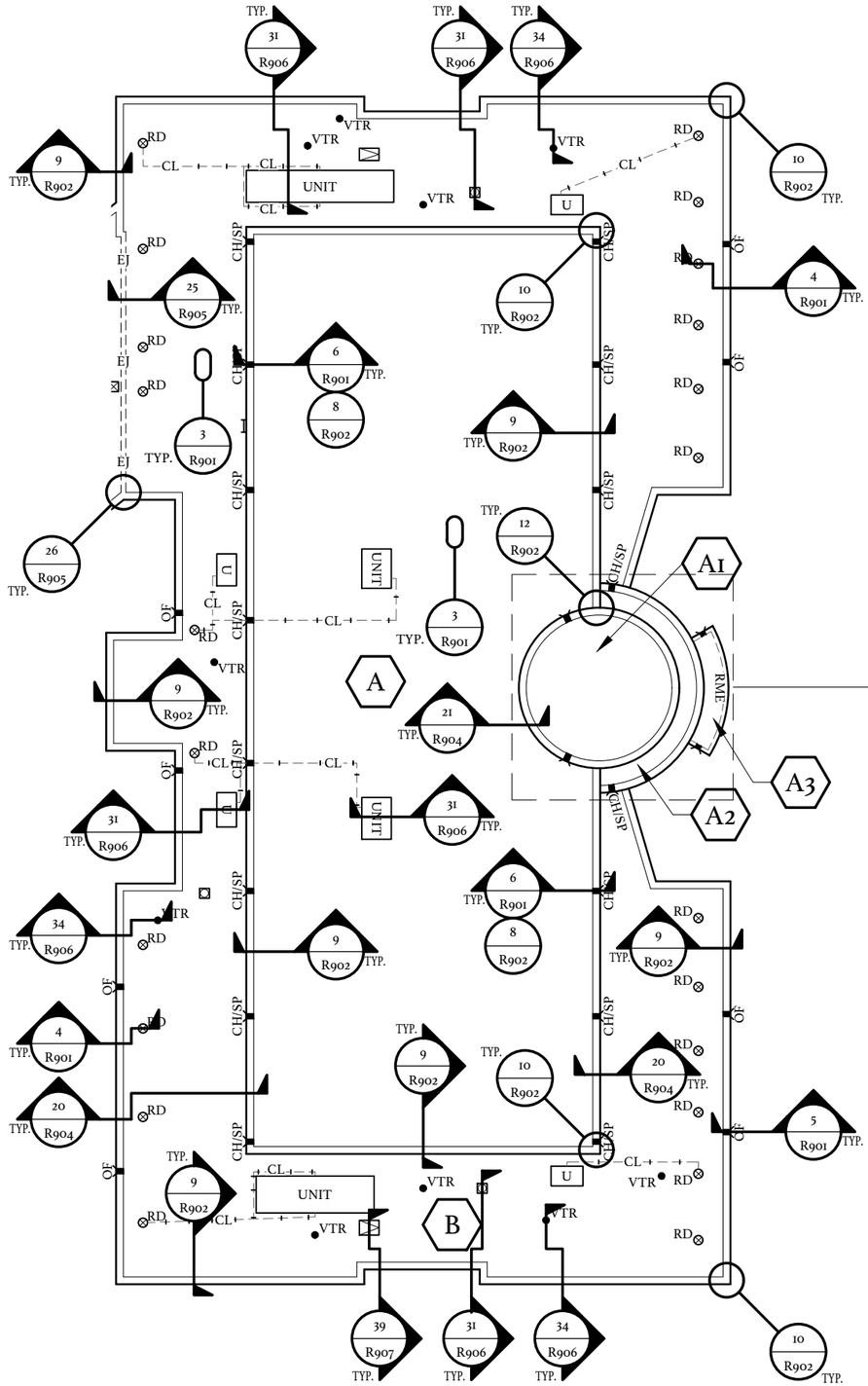
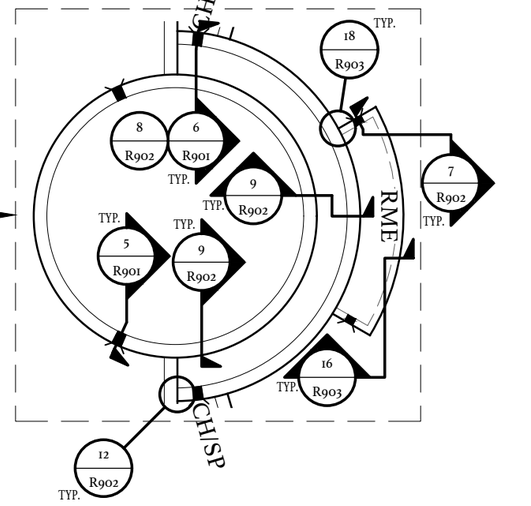
CONSTRUCTION DOCUMENTS

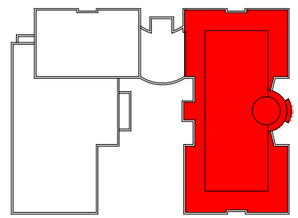
ALTERNATE #1

ALTERNATE #1 WORK INCLUDES TOTAL ROOF REPLACEMENT OF ROOF AREAS A, A1, A2, A3, B, C, & D IN LIEU OF MAINTENANCE/REPAIRS.



NEW ROOF PLAN
AREAS A, A1, A2, A3, & B
BUILDING 1100 (ALT. #1)





KEY PLAN

10' 5' 0 10' 20'

GRAPHIC SCALE

PLAN NORTH

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

Richard L. Cook IV
RRC 4026
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
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2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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DRAWN:	KAM
REVISION:	

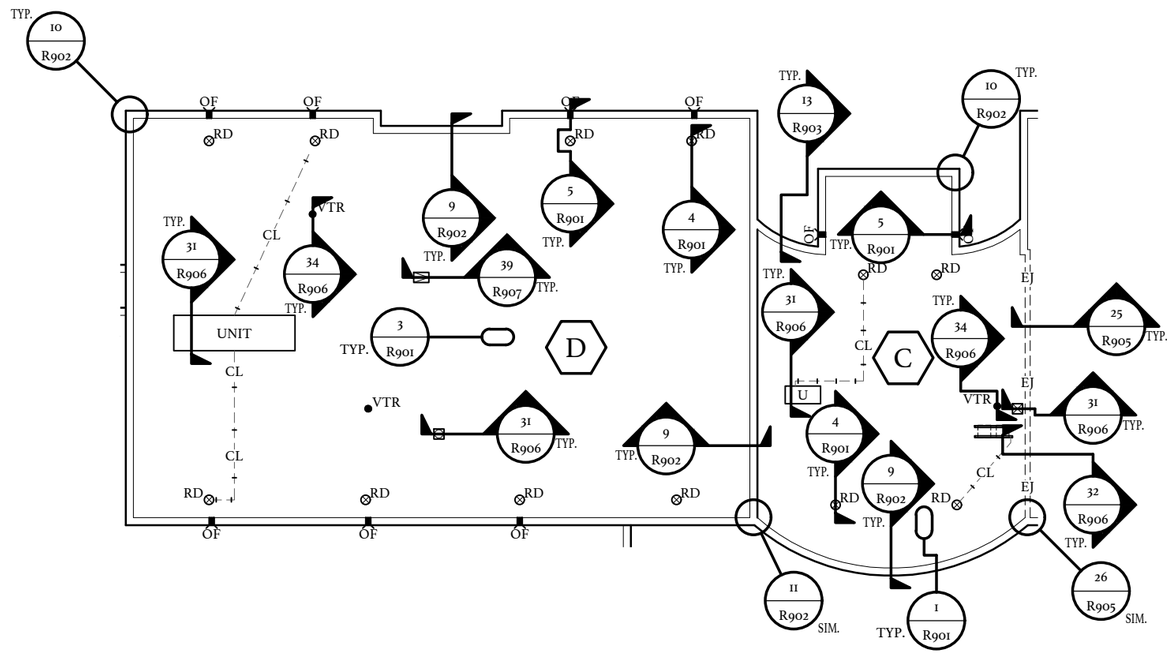
NEW ROOF
PLAN AREAS
A, A1, A2, A3, & B
BUILDING 1100
(ALT.#1)

R1101

CONSTRUCTION DOCUMENTS

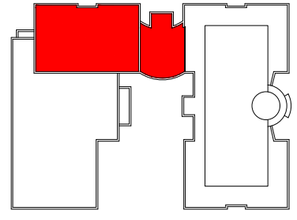
ALTERNATE #1

ALTERNATE #1 WORK INCLUDES TOTAL ROOF REPLACEMENT OF ROOF AREAS A, A1, A2, A3, B, C, & D IN LIEU OF MAINTENANCE/REPAIRS.



PLAN NORTH

NEW ROOF PLAN AREAS C & D
BUILDING 1100 (ALT. #1)



KEY PLAN

30' 20' 10' 0 15' 30' 60'

GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

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

Richard L. Cook IV
FRSA
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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
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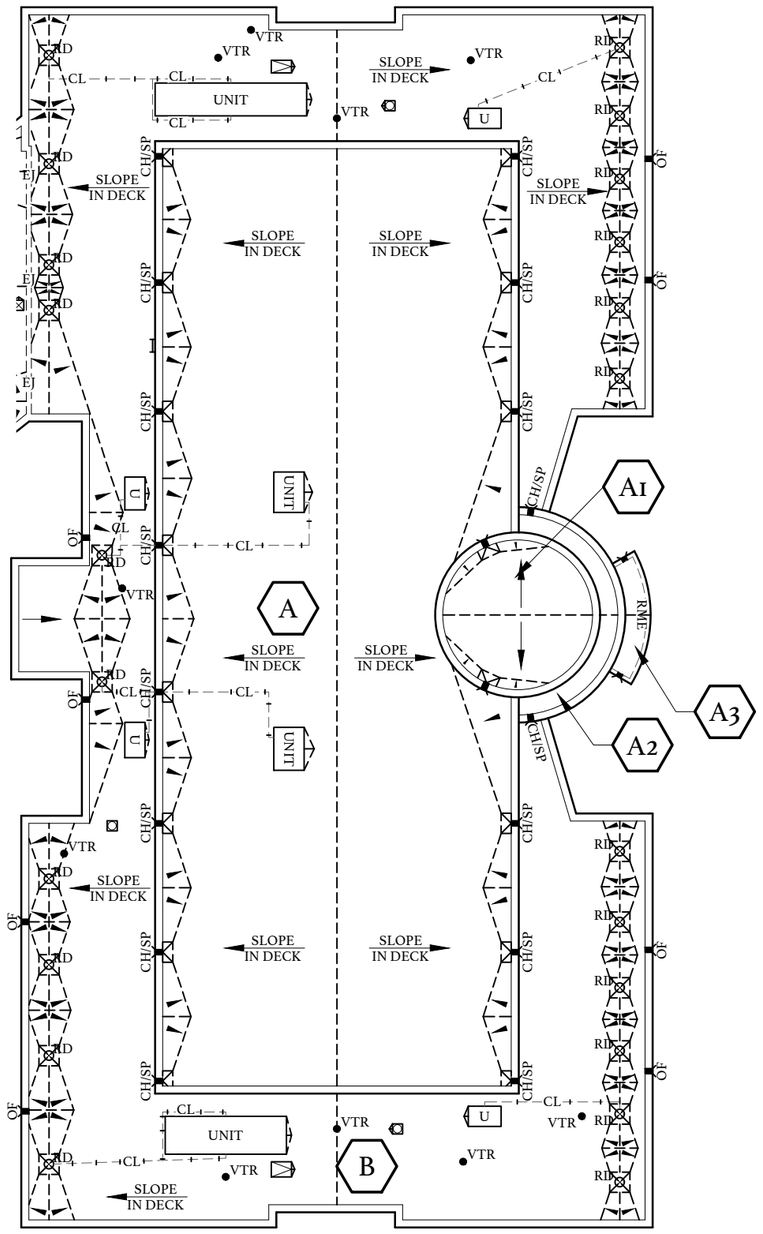
DRAWN:	KAM
REVISION:	

NEW ROOF PLAN AREAS C & D BUILDING 1100 (ALT.#1)

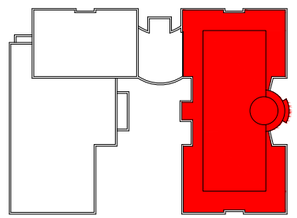
R1102



TAPER ROOF PLAN
AREAS A, A1, A2, A3, & B
BUILDING 1100 (ALT. #1)

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

10' 5' 0 10' 20'

GRAPHIC SCALE

PLAN NORTH

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

Richard L. Cook IV
LEED AP
#4026
Registered Roof Consultant

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
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2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
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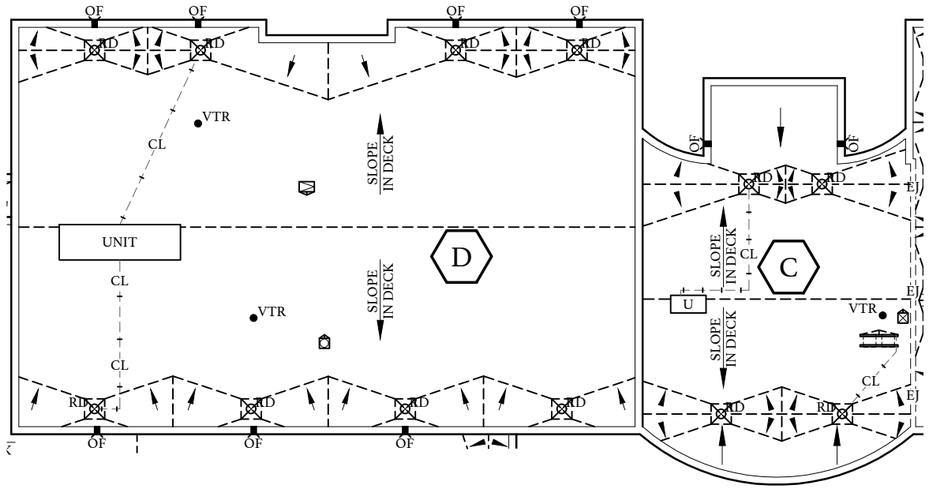
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF
PLAN AREAS
A, A1, A2, A3, & B
BUILDING 1100
(ALT.#1)

R1103

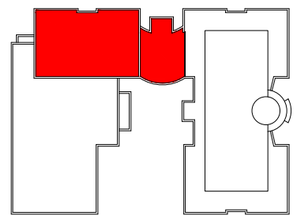
SHEET 68 OF 85

CONSTRUCTION DOCUMENTS



PLAN NORTH

TAPER ROOF PLAN
AREAS C & D
BUILDING 1100 (ALT. #1)



KEY PLAN

30' 20' 10' 0 15' 30' 60'

GRAPHIC SCALE

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.

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HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
BUILDING 1100
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HWY 501 E
CONWAY, SOUTH CAROLINA

DATE:	03/11/2024
BEE PROJECT #:	23010A
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	KAM
REVISION:	

TAPER ROOF
PLAN AREAS
C & D
BUILDING 1100
(ALT. #1)

R1104

SHEET 69 OF 85

CONSTRUCTION DOCUMENTS

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
S2-002	BUILDING 200 - DESIGN CRITERIA
S2-101	BUILDING 200 - WIND PRESSURE DIAGRAM
S5-002	BUILDING 500 - DESIGN CRITERIA
S5-101	BUILDING 500 - WIND PRESSURE DIAGRAM
S6-002	BUILDING 600 - DESIGN CRITERIA
S6-101	BUILDING 600 - WIND PRESSURE DIAGRAM
S7-002	BUILDING 700 - DESIGN CRITERIA
S7-101	BUILDING 700 - WIND PRESSURE DIAGRAM
S8-002	BUILDING 800 - DESIGN CRITERIA
S8-101	BUILDING 800 - WIND PRESSURE DIAGRAM
S9-002	BUILDING 900 - DESIGN CRITERIA
S9-101	BUILDING 900 - WIND PRESSURE DIAGRAM
S11-002	BUILDING 1100 - DESIGN CRITERIA
S11-003	BUILDING 1100 - DESIGN CRITERIA
S11-101	BUILDING 1100 - WIND PRESSURE

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, 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 LICENSE No. 28196 CHRISTOPHER J. GILGER

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

ABBREVIATIONS

S001

SHEET 70 OF 85

CONSTRUCTION DOCUMENTS

STRUCTURAL DESIGN CRITERIA

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

   ROOF LIVE LOADS:
   FLAT ROOF 20-PSF

   GROUND SNOW LOADS:
   SNOW 10-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
   Ss = 0.313
   S1 = 0.115
   Sds = 0.323
   Sd1 = 0.181
   SITE CLASS: "D" (DEFAULT)
   BUILDING RISK CATEGORY: "III"
   IMPORTANCE FACTOR: Ie = 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 Hsx

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.57
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 28.98 psf (ULT)
   q = 17.39 psf (ASD)

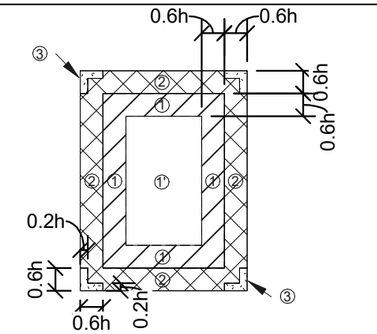
   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-15.68
ROOF FIELD	20	1'	9.60	-15.68
ROOF FIELD	50	1'	9.60	-15.68
ROOF FIELD	100	1'	9.60	-15.68
ROOF FIELD EDGE	10	1	9.60	-29.61
ROOF FIELD EDGE	20	1	9.60	-27.45
ROOF FIELD EDGE	50	1	9.60	-24.60
ROOF FIELD EDGE	100	1	9.60	-22.44
ROOF EDGE	10	2	9.60	-40.07
ROOF EDGE	20	2	9.60	-37.30
ROOF EDGE	50	2	9.60	-33.62
ROOF EDGE	100	2	9.60	-30.83
ROOF CORNER	10	3	9.60	-55.74
ROOF CORNER	20	3	9.60	-50.19
ROOF CORNER	50	3	9.60	-42.84
ROOF CORNER	100	3	9.60	-37.30
WALL FIELD	10	4	15.68	-17.25
WALL FIELD	20	4	14.84	-16.41
WALL FIELD	50	4	13.74	-15.31
WALL FIELD	100	4	12.91	-14.48
WALL EDGE	10	5	15.68	-21.95
WALL EDGE	20	5	14.84	-20.28
WALL EDGE	50	5	13.74	-18.08
WALL EDGE	100	5	12.91	-16.41



LOW-SLOPED ROOF ZONE DIAGRAM
h=15 ft. 0.6h=9 ft.
0.2h=3 ft.

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
3. 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.
4. 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.
5. WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
6. 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.
7. 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.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
9. COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
10. 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.
11. 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.
12. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
13. 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
CONWAY CAMPUS
OWNER PROJECT NUMBER: H39-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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

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

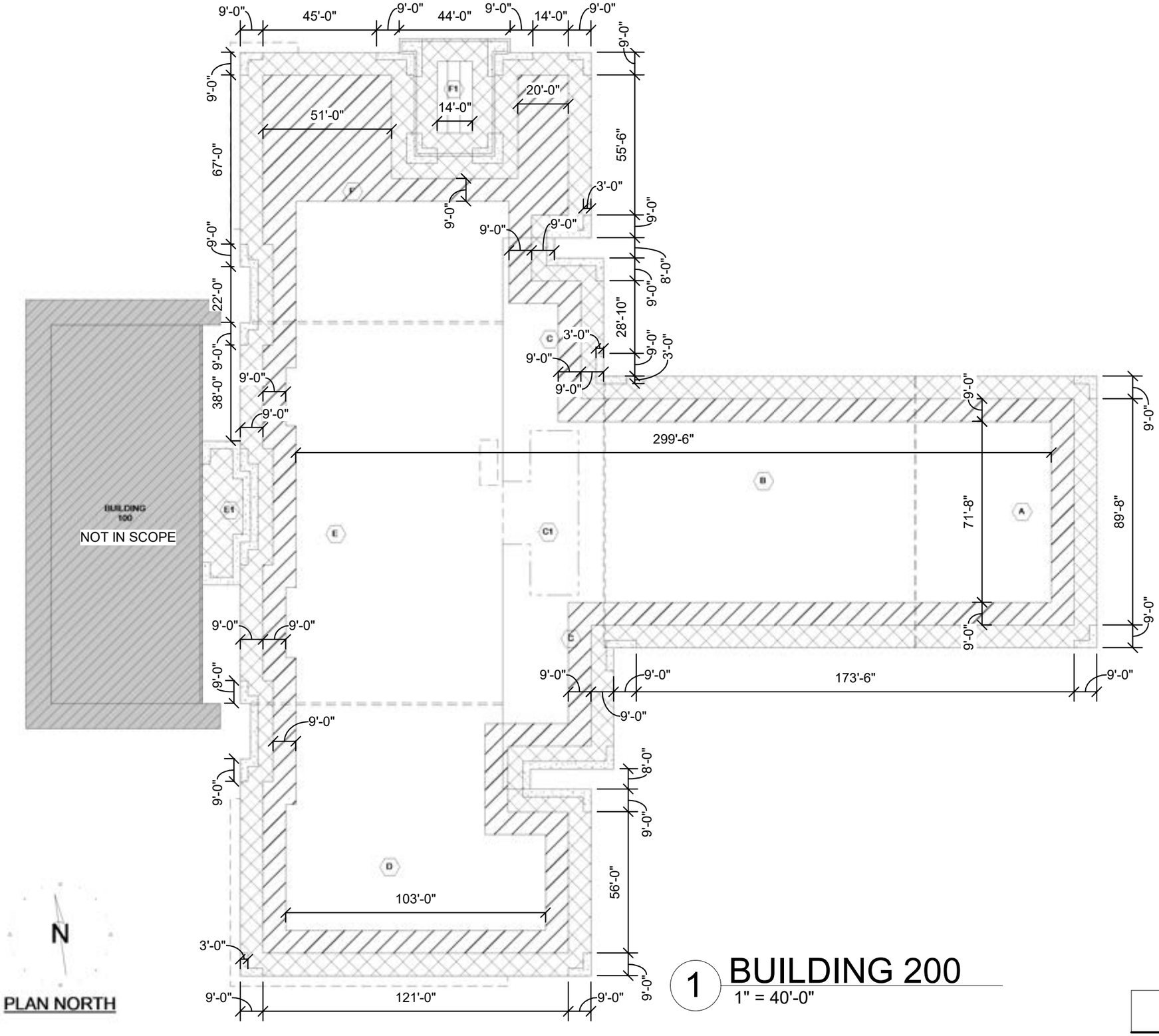
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 200 - DESIGN CRITERIA

S2-002

CONSTRUCTION DOCUMENTS



1 BUILDING 200
1" = 40'-0"

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 15' (+/-)
- SEE S2-002 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

KEYED NOTES (THIS SHEET ONLY)

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 200 - WIND PRESSURE DIAGRAM

S2-101

CONSTRUCTION DOCUMENTS
SHEET 72 OF 85

STRUCTURAL DESIGN CRITERIA

1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

   (A) FLAT ROOF

WIND DIRECTIONALITY FACTOR:	Kd = 0.85
TOPOGRAPHIC FACTOR:	Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT:	Kz = 0.59
GROUND ELEVATION FACTOR:	Ke = 0.998
VELOCITY PRESSURE:	q = 29.99 psf (ULT)
	q = 18.00 psf (ASD)

   (B) MONOSLOPE ROOF

WIND DIRECTIONALITY FACTOR:	Kd = 0.85
TOPOGRAPHIC FACTOR:	Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT:	Kz = 0.644
GROUND ELEVATION FACTOR:	Ke = 0.998
VELOCITY PRESSURE:	q = 32.74 psf (ULT)
	q = 19.64 psf (ASD)

   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

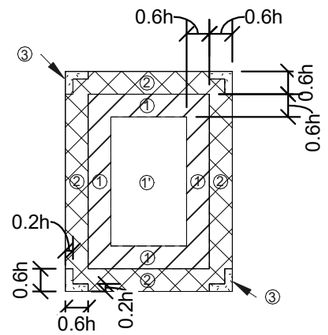
   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Flat/Low Sloping Roof
ASD PRESSURES

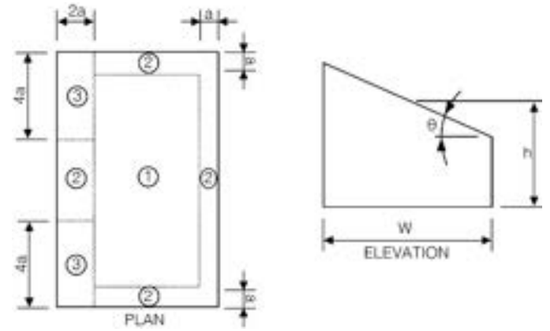
DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-16.23
ROOF FIELD	20	1'	9.60	-16.23
ROOF FIELD	50	1'	9.60	-16.23
ROOF FIELD	100	1'	9.60	-16.23
ROOF FIELD EDGE	10	1	9.60	-30.65
ROOF FIELD EDGE	20	1	9.60	-28.42
ROOF FIELD EDGE	50	1	9.60	-25.46
ROOF FIELD EDGE	100	1	9.60	-23.22
ROOF EDGE	10	2	9.60	-41.47
ROOF EDGE	20	2	9.60	-38.60
ROOF EDGE	50	2	9.60	-34.80
ROOF EDGE	100	2	9.60	-31.91
ROOF CORNER	10	3	9.60	-57.70
ROOF CORNER	20	3	9.60	-51.94
ROOF CORNER	50	3	9.60	-44.34
ROOF CORNER	100	3	9.60	-38.60
WALL FIELD	10	4	16.23	-17.85
WALL FIELD	20	4	15.36	-16.98
WALL FIELD	50	4	14.23	-15.85
WALL FIELD	100	4	13.36	-14.98
WALL EDGE	10	5	16.23	-22.72
WALL EDGE	20	5	15.36	-20.99
WALL EDGE	50	5	14.23	-18.72
WALL EDGE	100	5	13.36	-16.98

Components and Cladding Wind Pressures (Factored/ASD): Monoslope Roofs
ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1	9.6	-25.53
ROOF FIELD	20	1	9.6	-24.55
ROOF FIELD	50	1	9.6	-22.59
ROOF FIELD	100	1	9.6	-21.6
ROOF EDGE	10	2	9.6	-31.42
ROOF EDGE	20	2	9.6	-29.46
ROOF EDGE	50	2	9.6	-26.51
ROOF EDGE	100	2	9.6	-23.67
ROOF CORNER	10	3	9.6	-56.96
ROOF CORNER	20	3	9.6	-51.06
ROOF CORNER	50	3	9.6	-44.19
ROOF CORNER	100	3	9.6	-39.28



LOW-SLOPED ROOF ZONE DIAGRAM
h=17 ft. 0.6h=10.5 ft.
0.2h=3.5 ft.



MONO-SLOPED ROOF ZONE DIAGRAM
h=23 ft. a= 3 ft.

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
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2050 HIGHWAY 501 EAST
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ADC ENGINEERING
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1226 YEAMANS HALL ROAD, STE C
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ADC ENGINEERING INC.
No. 00253

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	GJG
DRAWN:	SAC
REVISION:	

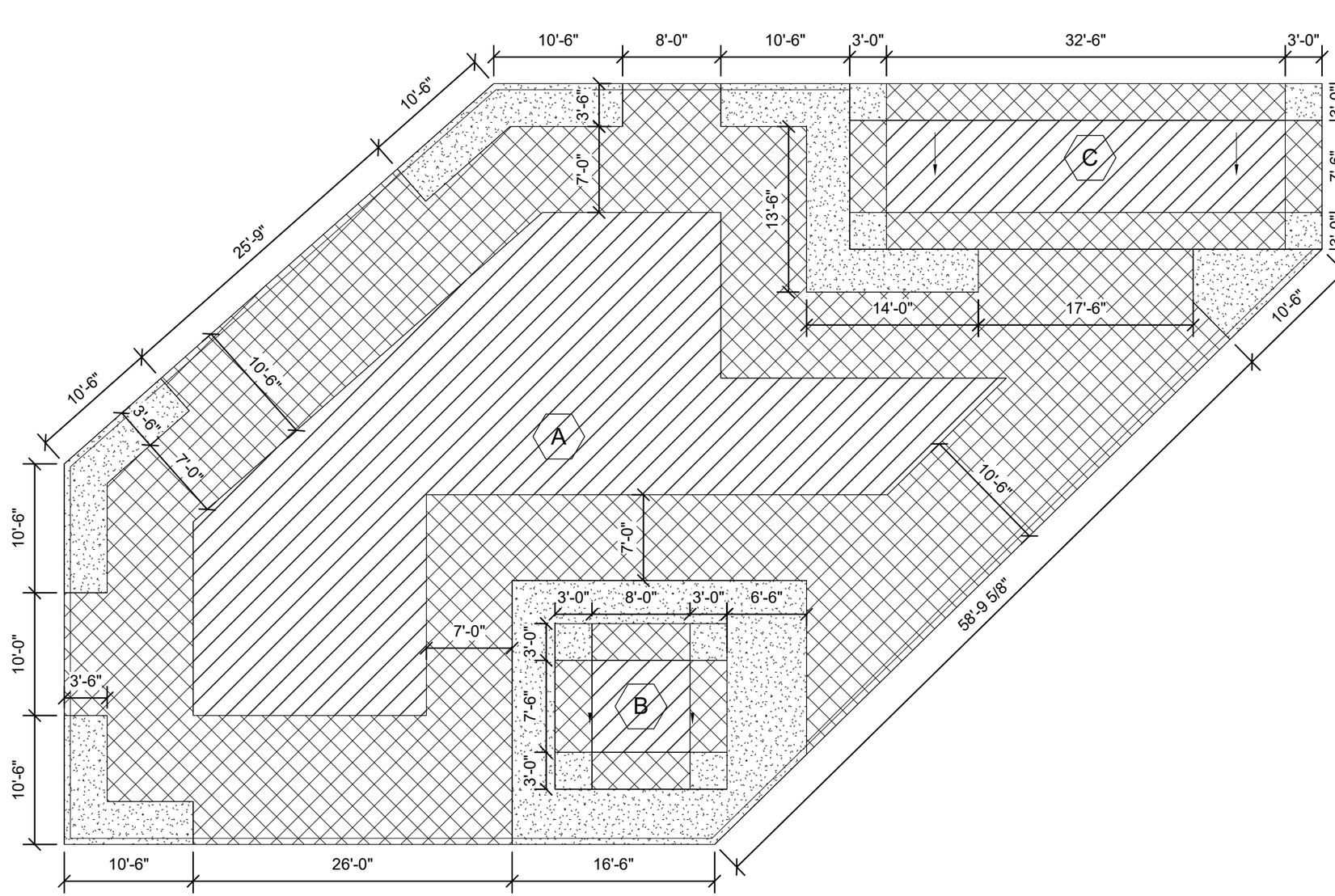
BUILDING 500 - DESIGN CRITERIA

S5-002

SHEET 73 OF 85

CONSTRUCTION DOCUMENTS

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 17' (+/-)
- SEE S5-002 FOR WIND PRESSURES



= ZONE 1' WIND PRESSURE

= ZONE 1 WIND PRESSURE

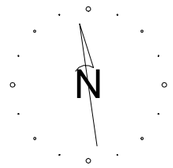
= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE

= SEE BEE DRAWINGS FOR ROOF AREAS LABEL

1 BUILDING 500
1" = 10'-0"



PLAN NORTH

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
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DATE:	03/11/2024
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DESIGNED:	CJG
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DRAWN:	SAC
REVISION:	

BUILDING 500 - WIND PRESSURE DIAGRAM

S5-101

CONSTRUCTION DOCUMENTS

STRUCTURAL DESIGN CRITERIA

1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

   (A) FLAT ROOF
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.57
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 28.98 psf (ULT)
   q = 17.39 psf (ASD)

   (B) MONOSLOPE ROOF
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.6
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 30.50 psf (ULT)
   q = 18.30 psf (ASD)

   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof

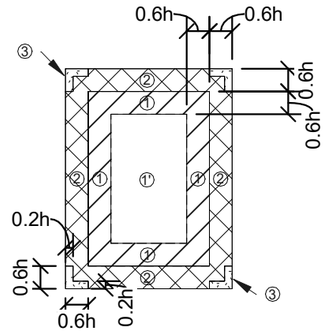
ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-15.65
ROOF FIELD	20	1'	9.60	-15.65
ROOF FIELD	50	1'	9.60	-15.65
ROOF FIELD	100	1'	9.60	-15.65
ROOF FIELD EDGE	10	1	9.60	-29.56
ROOF FIELD EDGE	20	1	9.60	-27.41
ROOF FIELD EDGE	50	1	9.60	-24.55
ROOF FIELD EDGE	100	1	9.60	-22.40
ROOF EDGE	10	2	9.60	-40.00
ROOF EDGE	20	2	9.60	-37.23
ROOF EDGE	50	2	9.60	-33.56
ROOF EDGE	100	2	9.60	-30.78
ROOF CORNER	10	3	9.60	-55.65
ROOF CORNER	20	3	9.60	-50.10
ROOF CORNER	50	3	9.60	-42.76
ROOF CORNER	100	3	9.60	-37.23
WALL FIELD	10	4	15.65	-17.22
WALL FIELD	20	4	14.82	-16.38
WALL FIELD	50	4	13.72	-15.29
WALL FIELD	100	4	12.89	-14.45
WALL EDGE	10	5	15.65	-21.91
WALL EDGE	20	5	14.82	-20.24
WALL EDGE	50	5	13.72	-18.05
WALL EDGE	100	5	12.89	-16.38

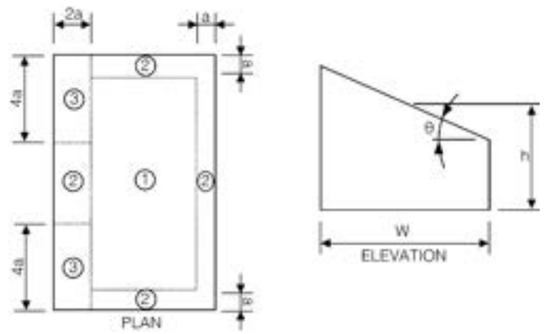
Components and Cladding Wind Pressures (Factored/ASD): Monoslope Roofs

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1	9.6	-23.79
ROOF FIELD	20	1	9.6	-22.86
ROOF FIELD	50	1	9.6	-21.05
ROOF FIELD	100	1	9.6	-20.13
ROOF EDGE	10	2	9.6	-29.28
ROOF EDGE	20	2	9.6	-27.45
ROOF EDGE	50	2	9.6	-24.71
ROOF EDGE	100	2	9.6	-21.96
ROOF CORNER	10	3	9.6	-53.07
ROOF CORNER	20	3	9.6	-47.58
ROOF CORNER	50	3	9.6	-41.18
ROOF CORNER	100	3	9.6	-36.6



LOW-SLOPED ROOF ZONE DIAGRAM
h=15 ft. 0.6h=9 ft.
0.2h=3 ft.



MONO-SLOPED ROOF ZONE DIAGRAM
h=19 ft. a= 3 ft.

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, 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 CERTIFICATE OF AUTHORIZATION ADC ENGINEERING INC. No. 00253

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 28196 CHRISTOPHER J. GILGER
3-11-24

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 600 - DESIGN CRITERIA

S6-002

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 15' (+/-)
- SEE S6-002 FOR WIND PRESSURES

= ZONE 1' WIND PRESSURE

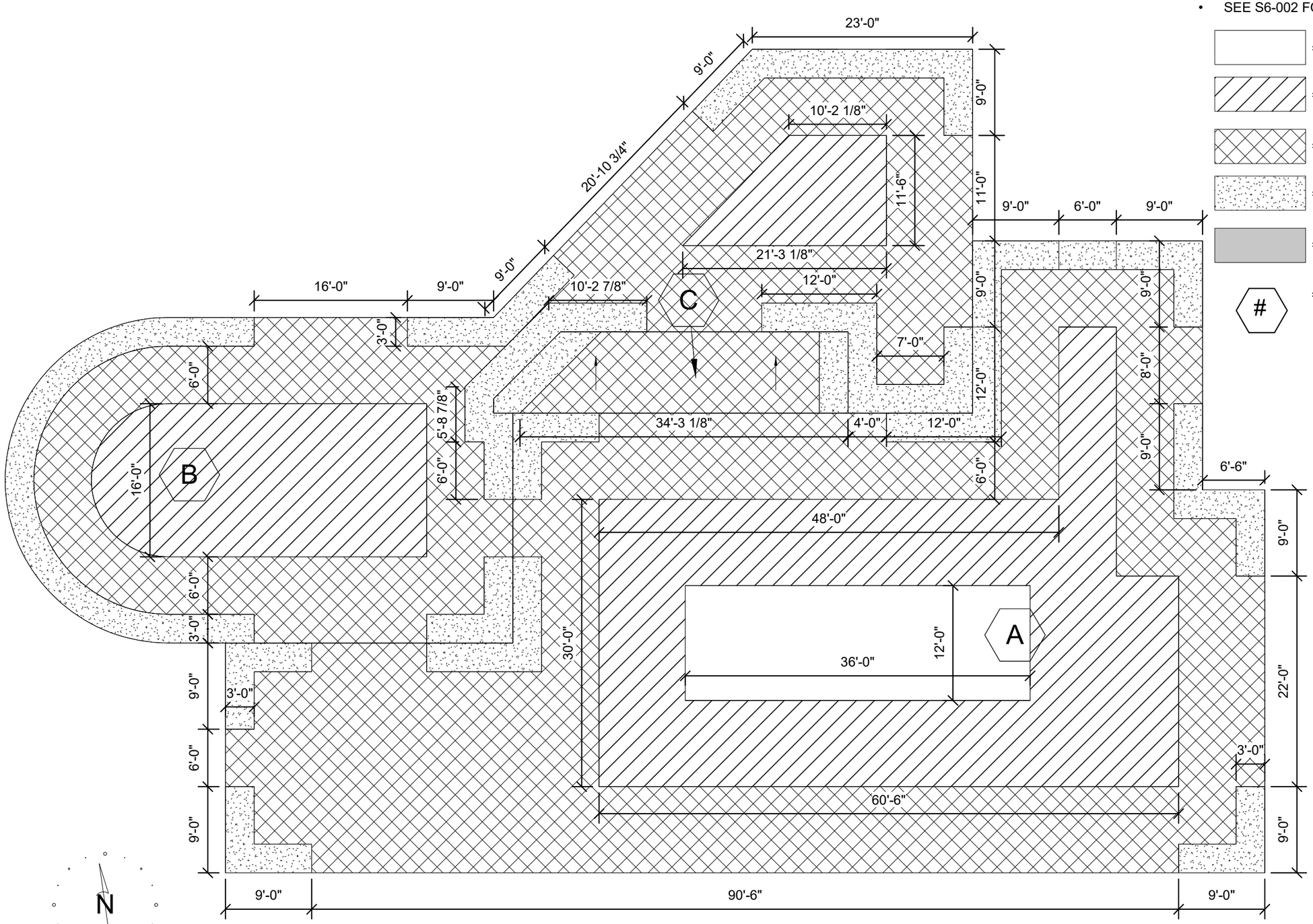
= ZONE 1 WIND PRESSURE

= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE

= SEE BEE DRAWINGS FOR ROOF AREAS LABEL



N

PLAN NORTH

1 BUILDING 600

3/32" = 1'-0"

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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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
LICENSED PROFESSIONAL ENGINEER
No. 28196
3-11-24
CHRISTOPHER J. GILGER

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 600 - WIND PRESSURE DIAGRAM

S6-101

CONSTRUCTION DOCUMENTS

STRUCTURAL DESIGN CRITERIA

1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

WIND DIRECTIONALITY FACTOR:	Kd = 0.85
TOPOGRAPHIC FACTOR:	Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT:	Kz = 0.59
GROUND ELEVATION FACTOR:	Ke = 0.998
VELOCITY PRESSURE:	q = 29.99 psf (ULT)
	q = 18.00 psf (ASD)

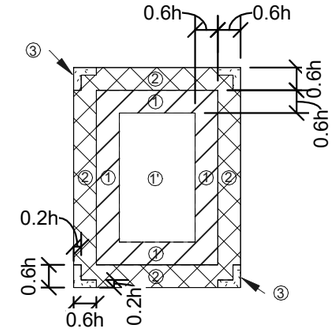
INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-16.20
ROOF FIELD	20	1'	9.60	-16.20
ROOF FIELD	50	1'	9.60	-16.20
ROOF FIELD	100	1'	9.60	-16.20
ROOF FIELD EDGE	10	1	9.60	-30.60
ROOF FIELD EDGE	20	1	9.60	-28.37
ROOF FIELD EDGE	50	1	9.60	-25.42
ROOF FIELD EDGE	100	1	9.60	-23.18
ROOF EDGE	10	2	9.60	-41.40
ROOF EDGE	20	2	9.60	-38.54
ROOF EDGE	50	2	9.60	-34.74
ROOF EDGE	100	2	9.60	-31.86
ROOF CORNER	10	3	9.60	-57.60
ROOF CORNER	20	3	9.60	-51.86
ROOF CORNER	50	3	9.60	-44.26
ROOF CORNER	100	3	9.60	-38.54
WALL FIELD	10	4	16.20	-17.82
WALL FIELD	20	4	15.34	-16.96
WALL FIELD	50	4	14.20	-15.82
WALL FIELD	100	4	13.34	-14.96
WALL EDGE	10	5	16.20	-22.68
WALL EDGE	20	5	15.34	-20.95
WALL EDGE	50	5	14.20	-18.68
WALL EDGE	100	5	13.34	-16.96



LOW-SLOPED ROOF ZONE DIAGRAM
h=17 ft. 0.6h=10.5 ft.
0.2h=3.5 ft.

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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

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

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 28196 LICENSED CHRISTOPHER J. GILGER
3-11-24

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 700 - DESIGN CRITERIA

S7-002

CONSTRUCTION DOCUMENTS

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 17' (+/-)
- SEE S7-002 FOR WIND PRESSURES

= ZONE 1' WIND PRESSURE

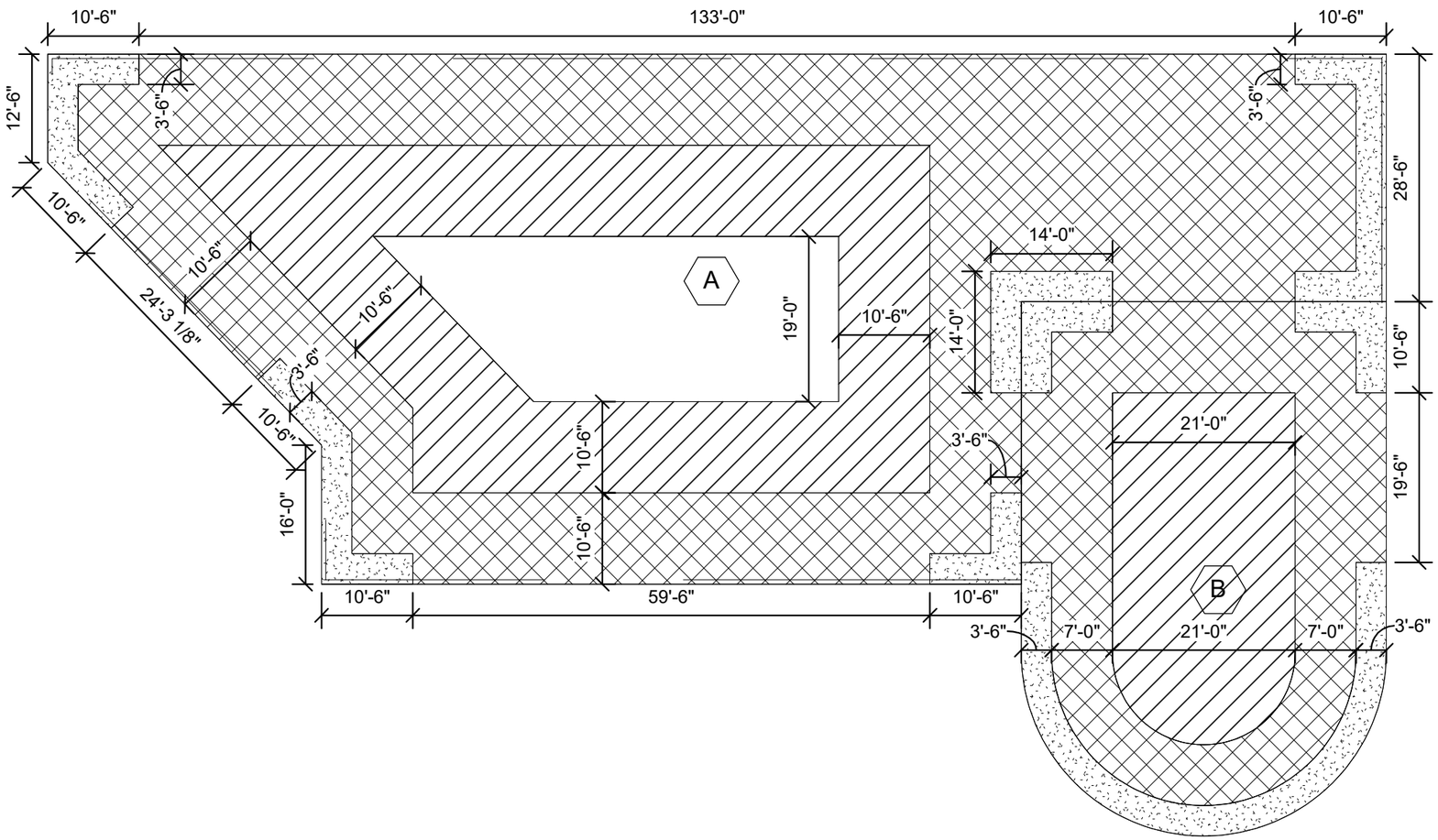
= ZONE 1 WIND PRESSURE

= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE

= SEE BEE DRAWINGS FOR ROOF AREAS LABEL



N

PLAN NORTH

1 BUILDING 700
1/16" = 1'-0"

CONSTRUCTION DOCUMENTS

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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HANAHAN, SC 29410

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

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 700 - WIND PRESSURE DIAGRAM

S7-101

STRUCTURAL DESIGN CRITERIA

1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.57
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 28.98 psf (ULT)
   q = 17.39 psf (ASD)

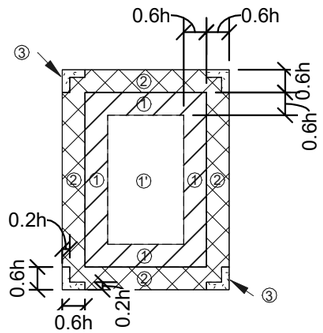
   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-15.65
ROOF FIELD	20	1'	9.60	-15.65
ROOF FIELD	50	1'	9.60	-15.65
ROOF FIELD	100	1'	9.60	-15.65
ROOF FIELD EDGE	10	1	9.60	-29.56
ROOF FIELD EDGE	20	1	9.60	-27.41
ROOF FIELD EDGE	50	1	9.60	-24.55
ROOF FIELD EDGE	100	1	9.60	-22.40
ROOF EDGE	10	2	9.60	-40.00
ROOF EDGE	20	2	9.60	-37.23
ROOF EDGE	50	2	9.60	-33.56
ROOF EDGE	100	2	9.60	-30.78
ROOF CORNER	10	3	9.60	-55.65
ROOF CORNER	20	3	9.60	-50.10
ROOF CORNER	50	3	9.60	-42.76
ROOF CORNER	100	3	9.60	-37.23
WALL FIELD	10	4	15.65	-17.22
WALL FIELD	20	4	14.82	-16.38
WALL FIELD	50	4	13.72	-15.29
WALL FIELD	100	4	12.89	-14.45
WALL EDGE	10	5	15.65	-21.91
WALL EDGE	20	5	14.82	-20.24
WALL EDGE	50	5	13.72	-18.05
WALL EDGE	100	5	12.89	-16.38



LOW-SLOPED ROOF ZONE DIAGRAM
h=14 ft. 0.6h=8.5 ft.
0.2h=3 ft.

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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

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

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 800 - DESIGN CRITERIA

S8-002

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 14' (+/-)
- SEE S8-002 FOR WIND PRESSURES

= ZONE 1' WIND PRESSURE

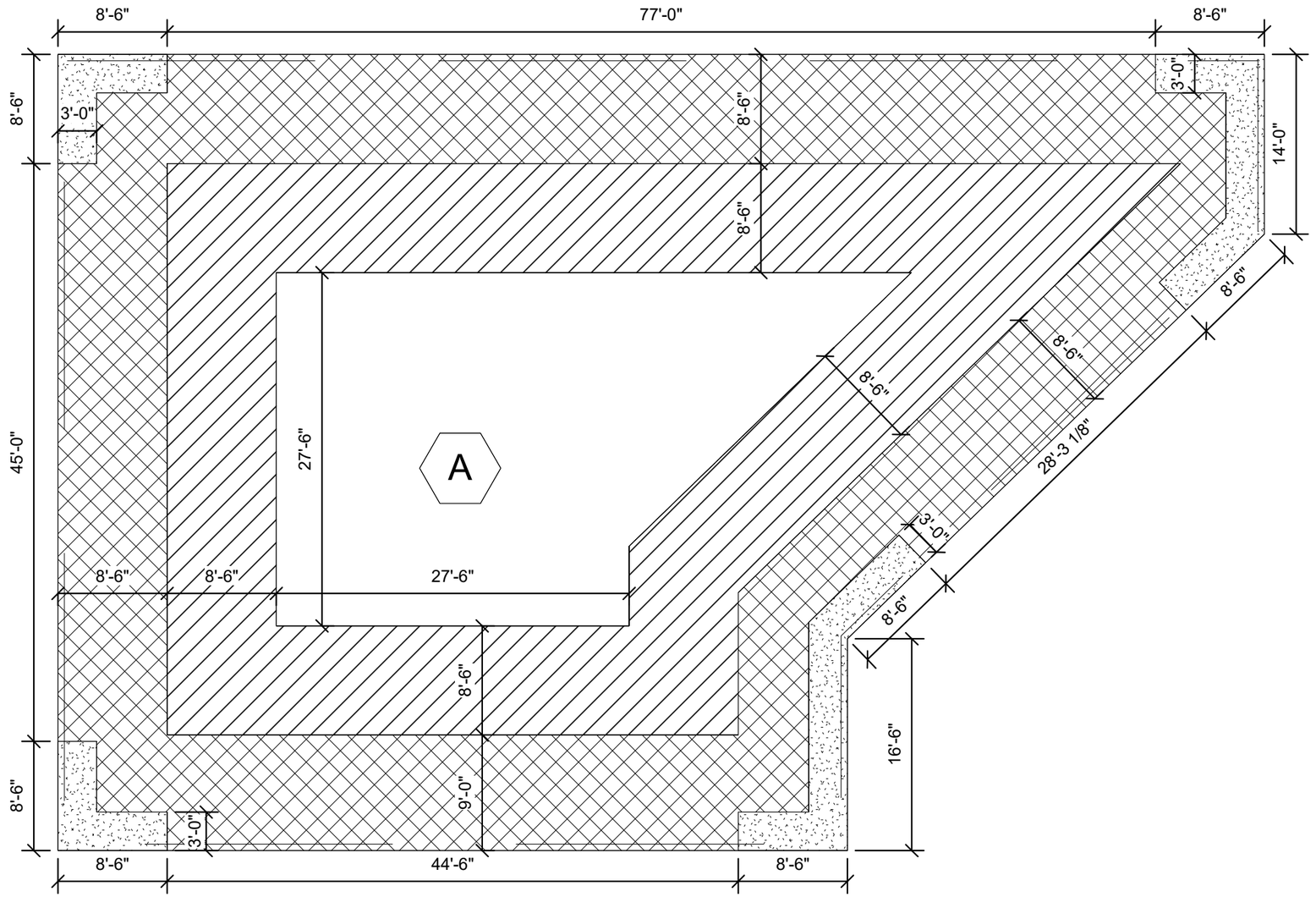
= ZONE 1 WIND PRESSURE

= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE

= SEE BEE DRAWINGS FOR ROOF AREAS LABEL



N

PLAN NORTH

1 BUILDING 800

1" = 10'-0"

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, 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 CERTIFICATE OF AUTHORIZATION
ADC ENGINEERING INC.
No. 00253

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 28196
3-11-24
CHRISTOPHER J. GILGER

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 800 - WIND PRESSURE DIAGRAM

S8-101

CONSTRUCTION DOCUMENTS

STRUCTURAL DESIGN CRITERIA

1. GRAVITY LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

2. SEISMIC DESIGN VALUES: IBC-2021 / ASCE 7-16
   REFER TO S2-002

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

   (A) ROOF HEIGHTS LESS THAN 15FT
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.57
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 29.98 psf (ULT)
   q = 17.39 psf (ASD)

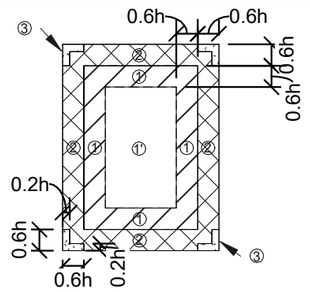
   (B) ROOF HEIGHTS BETWEEN 15FT AND 24FT
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.65
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 33.04 psf (ULT)
   q = 19.83 psf (ASD)

   (C) MONOSLOPE ROOF
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.681
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 34.62 psf (ULT)
   q = 20.77 psf (ASD)

   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

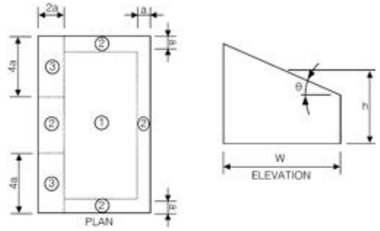
   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

NOTE: IF ROOF HEIGHT FOR FLAT ROOFS EXCEED 24'-0", NOTIFY EOR FOR ALT PRESSURES.



LOW-SLOPED ROOF ZONE DIAGRAM "C"
h=15 ft. 0.6h=9 ft.
0.2h=3 ft.

LOW-SLOPED ROOF ZONE DIAGRAM "A+B"
h=24 ft. 0.6h=14.5 ft.
0.2h=5 ft.



MONO-SLOPED ROOF ZONE DIAGRAM "B1"
h=28 ft. a= 3 ft.

Components and Cladding Wind Pressures (Factored/ASD): Monoslope Roofs B1
ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1	9.6	-27
ROOF FIELD	20	1	9.6	-25.96
ROOF FIELD	50	1	9.6	-23.89
ROOF FIELD	100	1	9.6	-22.85
ROOF EDGE	10	2	9.6	-33.23
ROOF EDGE	20	2	9.6	-31.16
ROOF EDGE	50	2	9.6	-28.04
ROOF EDGE	100	2	9.6	-24.92
ROOF CORNER	10	3	9.6	-60.23
ROOF CORNER	20	3	9.6	-54
ROOF CORNER	50	3	9.6	-46.73
ROOF CORNER	100	3	9.6	-41.54

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Areas: C
ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-15.65
ROOF FIELD	20	1'	9.60	-15.65
ROOF FIELD	50	1'	9.60	-15.65
ROOF FIELD	100	1'	9.60	-15.65
ROOF FIELD EDGE	10	1	9.60	-29.56
ROOF FIELD EDGE	20	1	9.60	-27.41
ROOF FIELD EDGE	50	1	9.60	-24.55
ROOF FIELD EDGE	100	1	9.60	-22.40
ROOF EDGE	10	2	9.60	-40.00
ROOF EDGE	20	2	9.60	-37.23
ROOF EDGE	50	2	9.60	-33.56
ROOF EDGE	100	2	9.60	-30.78
ROOF CORNER	10	3	9.60	-55.65
ROOF CORNER	20	3	9.60	-50.10
ROOF CORNER	50	3	9.60	-42.76
ROOF CORNER	100	3	9.60	-37.23
WALL FIELD	10	4	15.65	-17.22
WALL FIELD	20	4	14.82	-16.38
WALL FIELD	50	4	13.72	-15.29
WALL FIELD	100	4	12.89	-14.45
WALL EDGE	10	5	15.65	-21.91
WALL EDGE	20	5	14.82	-20.24
WALL EDGE	50	5	13.72	-18.05
WALL EDGE	100	5	12.89	-16.38

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Areas: A and B
ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-17.85
ROOF FIELD	20	1'	9.60	-17.85
ROOF FIELD	50	1'	9.60	-17.85
ROOF FIELD	100	1'	9.60	-17.85
ROOF FIELD EDGE	10	1	9.60	-33.71
ROOF FIELD EDGE	20	1	9.60	-31.25
ROOF FIELD EDGE	50	1	9.60	-28.00
ROOF FIELD EDGE	100	1	9.60	-25.54
ROOF EDGE	10	2	9.60	-45.61
ROOF EDGE	20	2	9.60	-42.46
ROOF EDGE	50	2	9.60	-38.27
ROOF EDGE	100	2	9.60	-35.10
ROOF CORNER	10	3	9.60	-63.46
ROOF CORNER	20	3	9.60	-57.13
ROOF CORNER	50	3	9.60	-48.76
ROOF CORNER	100	3	9.60	-42.46
WALL FIELD	10	4	17.85	-19.63
WALL FIELD	20	4	16.90	-18.68
WALL FIELD	50	4	15.65	-17.43
WALL FIELD	100	4	14.69	-16.48
WALL EDGE	10	5	17.85	-24.99
WALL EDGE	20	5	16.90	-23.08
WALL EDGE	50	5	15.65	-20.58
WALL EDGE	100	5	14.69	-18.68

Components and Cladding Wind Parapets Roof Area A
ASD PRESSURES

DESCRIPTION	AREA	ZONE	P (NET)
	SF		PSF
WINDWARD PARAPET	10	4_P	65.18
WINDWARD PARAPET	10	5_P	83.52
LEEWARD PARAPET	10	4_P	38.5
LEEWARD PARAPET	10	5_P	44

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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

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

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 900 - DESIGN CRITERIA

S9-002

CONSTRUCTION DOCUMENTS

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV = 15' AND 24' (+/-)
- SEE S9-002 FOR WIND PRESSURES

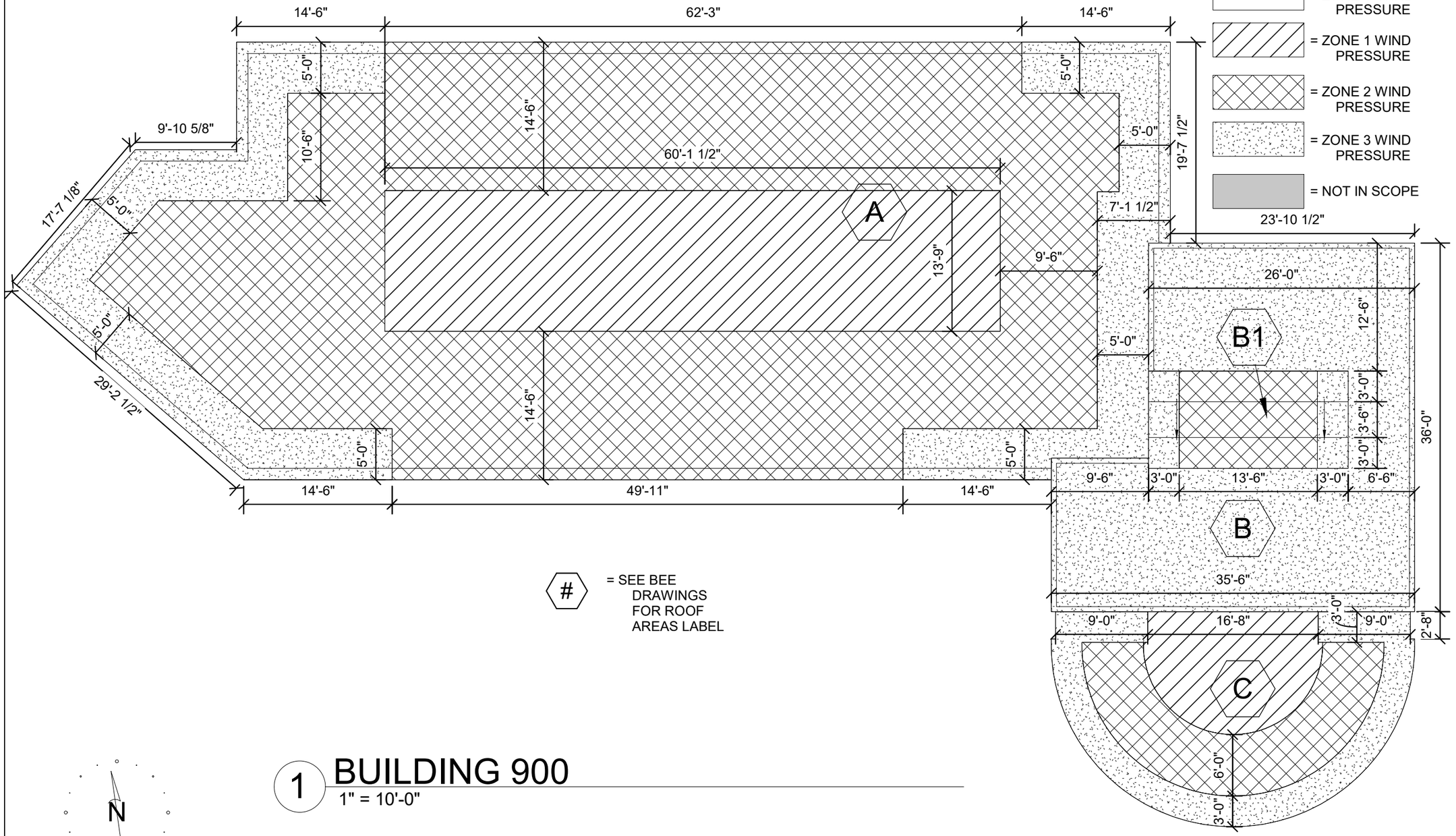
= ZONE 1' WIND PRESSURE

= ZONE 1 WIND PRESSURE

= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE



= SEE BEE DRAWINGS FOR ROOF AREAS LABEL

N

PLAN NORTH

1 BUILDING 900

1" = 10'-0"

CONSTRUCTION DOCUMENTS

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
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CHRISTOPHER J. GILGER

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ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 900 - WIND PRESSURE DIAGRAM

S9-101

SHEET 82 OF 85

STRUCTURAL DESIGN CRITERIA

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

   ROOF LIVE LOADS:
   FLAT ROOF 20-PSF

   GROUND SNOW LOADS:
   SNOW 10-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
   Ss = 0.313
   S1 = 0.115
   Sds = 0.323
   Sd1 = 0.181
   SITE CLASS: "D" (DEFAULT)
   BUILDING RISK CATEGORY: "III"
   IMPORTANCE FACTOR: Ie = 1.25
   SEISMIC DESIGN CATEGORY: "B"
   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 Hsx

3. WIND LOAD DESIGN VALUES: IBC-2021 / ASCE 7-16
   V = 153 mph (3-sec gust)
   BUILDING RISK CATEGORY: "III"
   EXPOSURE CATEGORY: "B"
   ENCLOSURE CLASSIFICATION: ENCLOSED

(A) ROOF HEIGHTS 23FT OR LESS
   WIND DIRECTIONALITY FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 0.644
   GROUND ELEVATION FACTOR: Ke = 0.998
   VELOCITY PRESSURE: q = 32.74 psf (ULT)
   q = 19.64 psf (ASD)

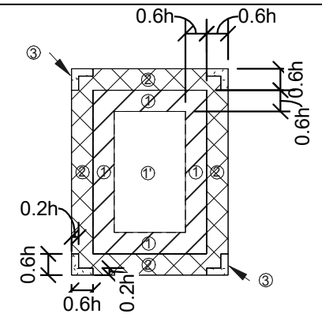
   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

   ALLOWABLE INTERSTORY DRIFT: 0.02 Hsx

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof Areas: E,F,G

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-17.68
ROOF FIELD	20	1'	9.60	-17.68
ROOF FIELD	50	1'	9.60	-17.68
ROOF FIELD	100	1'	9.60	-17.68
ROOF FIELD EDGE	10	1	9.60	-33.39
ROOF FIELD EDGE	20	1	9.60	-30.95
ROOF FIELD EDGE	50	1	9.60	-27.73
ROOF FIELD EDGE	100	1	9.60	-25.30
ROOF EDGE	10	2	9.60	-45.17
ROOF EDGE	20	2	9.60	-42.05
ROOF EDGE	50	2	9.60	-37.91
ROOF EDGE	100	2	9.60	-34.76
ROOF CORNER	10	3	9.60	-62.85
ROOF CORNER	20	3	9.60	-56.58
ROOF CORNER	50	3	9.60	-48.29
ROOF CORNER	100	3	9.60	-42.05
WALL FIELD	10	4	17.68	-19.44
WALL FIELD	20	4	16.73	-18.50
WALL FIELD	50	4	15.50	-17.26
WALL FIELD	100	4	14.55	-16.32
WALL EDGE	10	5	17.68	-24.75
WALL EDGE	20	5	16.73	-22.86
WALL EDGE	50	5	15.50	-20.39
WALL EDGE	100	5	14.55	-18.50



LOW-SLOPED A ROOF ZONE DIAGRAM "A"

h=23 ft. 0.6h=14 ft.
0.2h=5 ft.

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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HANAHAN, SC 29410

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

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 28196 CHRISTOPHER J. GILGER 3-11-24

DATE: 03/11/2024
ADC PROJECT #: 23289
DESIGNED: CJG
CHECKED: CJG
DRAWN: SAC
REVISION:

BUILDING 1100 - DESIGN CRITERIA

S11-002

STRUCTURAL DESIGN CRITERIA

(B) ROOF HEIGHTS BETWEEN 23FT AND 34FT

WIND DIRECTIONALITY FACTOR:	Kd = 0.85
TOPOGRAPHIC FACTOR:	Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT:	Kz = 0.72
GROUND ELEVATION FACTOR:	Ke = 0.998
VELOCITY PRESSURE:	q = 36.60 psf (ULT)
	q = 21.96 psf (ASD)

(C) ROOF HEIGHTS BETWEEN 34FT AND 50FT

WIND DIRECTIONALITY FACTOR:	Kd = 0.85
TOPOGRAPHIC FACTOR:	Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT:	Kz = 0.81
GROUND ELEVATION FACTOR:	Ke = 0.998
VELOCITY PRESSURE:	q = 41.18 psf (ULT)
	q = 24.71 psf (ASD)

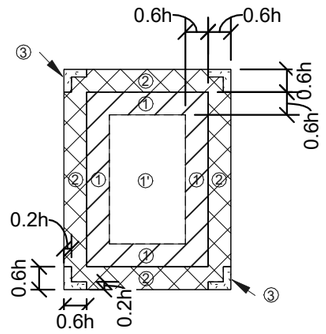
INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures Roof Area

ASD PRESSURES

DESCRIPTION	AREA	ZONE	P (NET)
	SF		PSF
WINDWARD PARAPET	10	4_P	81
WINDWARD PARAPET	10	5_P	104
LEEWARD PARAPET	10	4_P	49
LEEWARD PARAPET	10	5_P	56



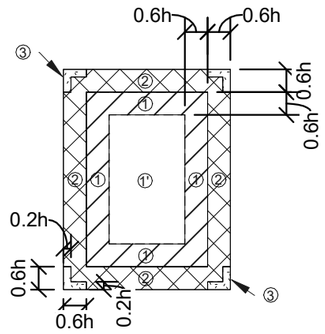
LOW-SLOPED ROOF ZONE DIAGRAM

h=34 ft. 0.6h=21 ft. 0.2h=7 ft.

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof Areas: B,C,D

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-19.76
ROOF FIELD	20	1'	9.60	-19.76
ROOF FIELD	50	1'	9.60	-19.76
ROOF FIELD	100	1'	9.60	-19.76
ROOF FIELD EDGE	10	1	9.60	-37.33
ROOF FIELD EDGE	20	1	9.60	-34.61
ROOF FIELD EDGE	50	1	9.60	-31.01
ROOF FIELD EDGE	100	1	9.60	-28.28
ROOF EDGE	10	2	9.60	-50.51
ROOF EDGE	20	2	9.60	-47.02
ROOF EDGE	50	2	9.60	-42.38
ROOF EDGE	100	2	9.60	-38.87
ROOF CORNER	10	3	9.60	-70.27
ROOF CORNER	20	3	9.60	-63.27
ROOF CORNER	50	3	9.60	-54.00
ROOF CORNER	100	3	9.60	-47.02
WALL FIELD	10	4	19.76	-21.74
WALL FIELD	20	4	18.71	-20.69
WALL FIELD	50	4	17.33	-19.30
WALL FIELD	100	4	16.27	-18.25
WALL EDGE	10	5	19.76	-27.67
WALL EDGE	20	5	18.71	-25.56
WALL EDGE	50	5	17.33	-22.79
WALL EDGE	100	5	16.27	-20.69



LOW-SLOPED ROOF ZONE DIAGRAM

h=50 ft. 0.6h=30 ft. 0.2h=10 ft.

Components and Cladding Wind Pressures (Factored/ASD): Flat/Low Sloping Roof Areas: A,A1,A2,A3

ASD PRESSURES

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	10	1'	9.60	-22.24
ROOF FIELD	20	1'	9.60	-22.24
ROOF FIELD	50	1'	9.60	-22.24
ROOF FIELD	100	1'	9.60	-22.24
ROOF FIELD EDGE	10	1	9.60	-42.01
ROOF FIELD EDGE	20	1	9.60	-38.94
ROOF FIELD EDGE	50	1	9.60	-34.89
ROOF FIELD EDGE	100	1	9.60	-31.83
ROOF EDGE	10	2	9.60	-56.83
ROOF EDGE	20	2	9.60	-52.90
ROOF EDGE	50	2	9.60	-47.69
ROOF EDGE	100	2	9.60	-43.74
ROOF CORNER	10	3	9.60	-79.07
ROOF CORNER	20	3	9.60	-71.19
ROOF CORNER	50	3	9.60	-60.76
ROOF CORNER	100	3	9.60	-52.90
WALL FIELD	10	4	22.24	-24.46
WALL FIELD	20	4	21.05	-23.28
WALL FIELD	50	4	19.50	-21.72
WALL FIELD	100	4	18.31	-20.53
WALL EDGE	10	5	22.24	-31.13
WALL EDGE	20	5	21.05	-28.76
WALL EDGE	50	5	19.50	-25.65
WALL EDGE	100	5	18.31	-23.28

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H59-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

ADC ENGINEERING
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HANAHAN, SC 29410
843-566-0161 ADCENGINEERING.COM

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

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ADC ENGINEERING INC.
No. 00253

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 28196
CHRISTOPHER J. GILGER
3-11-24

DATE:	03/11/2024
ADC PROJECT #:	23289
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 1100 - DESIGN CRITERIA

S11-003

CONSTRUCTION DOCUMENTS

GENERAL NOTES:
- FFE = 0' - 0"
- ROOF ELEV VARIES
- SEE S11-002 AND S11-003 FOR WIND PRESSURES

= ZONE 1' WIND PRESSURE

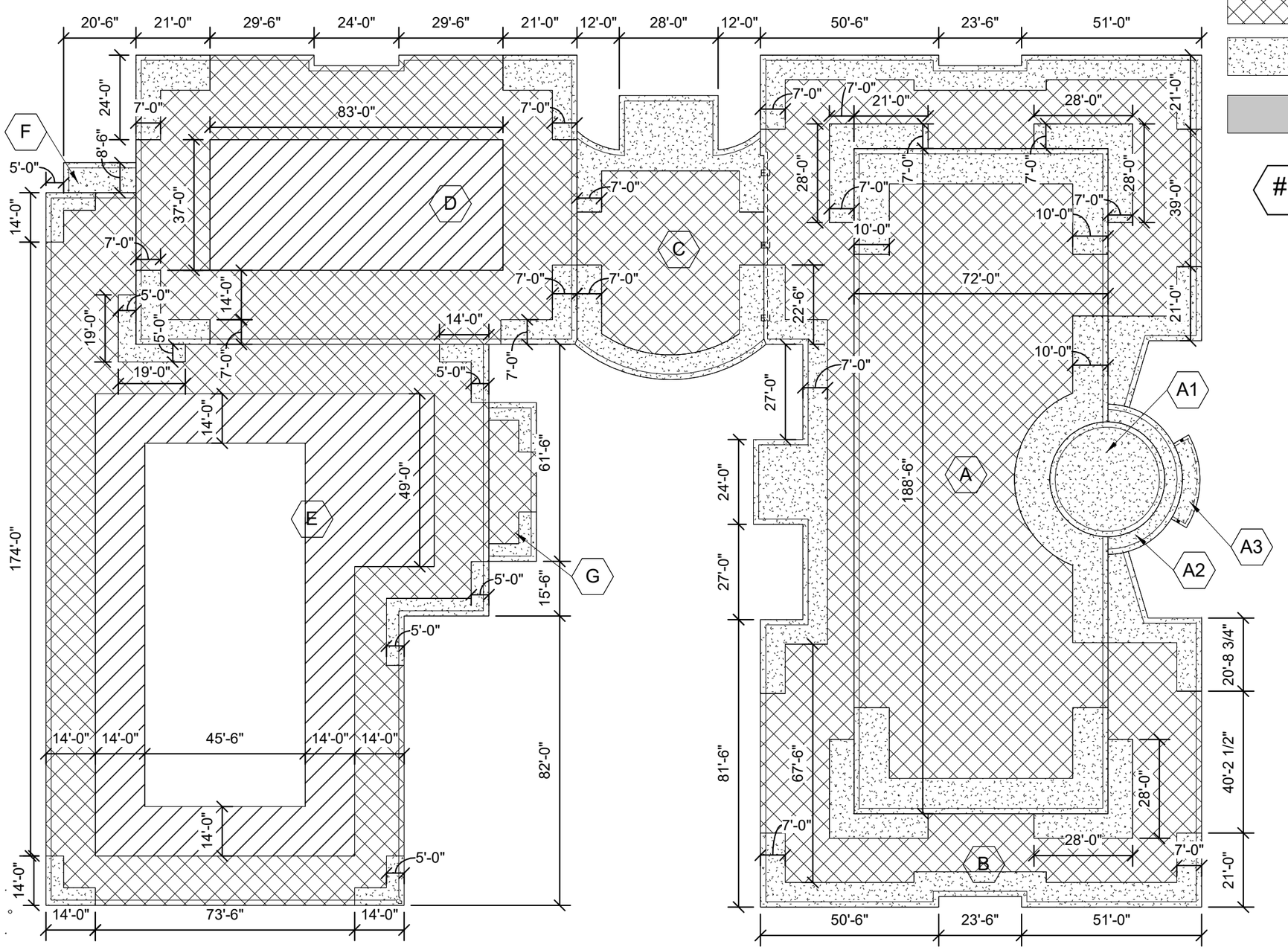
= ZONE 1 WIND PRESSURE

= ZONE 2 WIND PRESSURE

= ZONE 3 WIND PRESSURE

= NOT IN SCOPE

= SEE BEE DRAWINGS FOR ROOF AREAS LABEL



PLAN NORTH

1 BUILDING 1100
1/32" = 1'-0"

HORRY-GEORGETOWN TECHNICAL COLLEGE
REPAIR/REPLACE ROOFING SYSTEMS
CONWAY CAMPUS
OWNER PROJECT NUMBER: H39-6227-PD
BEE PROJECT NUMBER: 23010A
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA

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CHECKED:	CJG
DRAWN:	SAC
REVISION:	

BUILDING 1100 - WIND PRESSURE

S11-101

CONSTRUCTION DOCUMENTS