

LAKEVIEW MIDDLE SCHOOL ROOF REPLACEMENT

3801 OLD BUNCOMBE ROAD
GREENVILLE, SC 29617

RAYMOND PROJECT NO. GSP1010.079
CLIENT: GREENVILLE COUNTY SCHOOLS



AERIAL PHOTO
SCALE: N.T.S.

DRAWING INDEX

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G-003	GENERAL NOTES	02/21/2024		02/21/2024
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S-101	WIND ZONE ROOF PLAN - ROOF AREA A7 - A10 & B3	02/21/2024		02/21/2024
S-102	WIND ZONE ROOF PLAN - ROOF AREA A1-A6, B1-B2, C1-C2	02/21/2024		02/21/2024

SPECIFICATIONS

A SEPARATE PROJECT MANUAL (SPECIFICATION) IS:

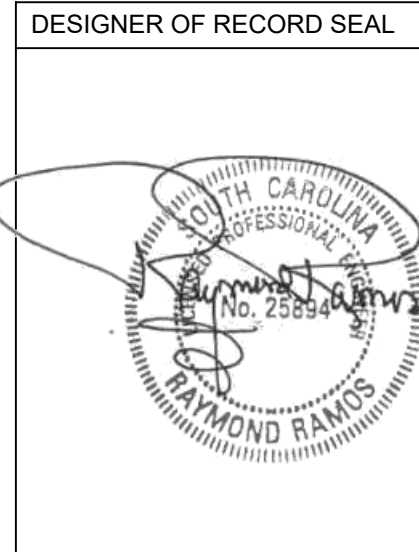
☒ INCLUDED

☐ NOT INCLUDED

AS PART OF THIS PROJECT.

PROJECT SCOPE

REFER TO SPECIFICATION DOCUMENT FOR PROJECT SCOPE.
WORK UNDER THIS CONTRACT CONSISTS OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THE QUALITY REMEDIAL ROOF RECOVER AT LAKEVIEW MIDDLE SCHOOL. REFER TO SPECIFICATION SECTION 01 11 00 "SUMMARY OF WORK" FOR MORE INFORMATION.



DRAWING #		G-001											
PROJECT TITLE: LAKEVIEW MIDDLE SCHOOL ROOF REPLACEMENT		PROJECT DESIGNED FOR											
PROJECT ADDRESS: 3801 OLD BUNCOMBE RD GREENVILLE, SC 29617		<div> GREENVILLE COUNTY SCHOOLS <i>Where Engaging Starts!</i></div>											
SHEET TITLE: COVER SHEET		<table><tr><td colspan="2">PROJECT INFORMATION</td></tr><tr><td>DRAWING PROJECT NUMBER GSP1010109</td><td>EMILY RAMOS</td></tr><tr><td>CHECKED: DANIEL JOHNSON</td><td></td></tr><tr><td>CLIENT'S COUNTY: SCHOOLS & CLIENT'S REPRESENTATIVE DYLAN JOHNSON</td><td>APPROVED: TERRESHA CHAMPION</td></tr><tr><td>DATE OF REVIEW 02/27/2024</td><td>REVISIONS/ISSUES</td></tr></table>		PROJECT INFORMATION		DRAWING PROJECT NUMBER GSP1010109	EMILY RAMOS	CHECKED: DANIEL JOHNSON		CLIENT'S COUNTY: SCHOOLS & CLIENT'S REPRESENTATIVE DYLAN JOHNSON	APPROVED: TERRESHA CHAMPION	DATE OF REVIEW 02/27/2024	REVISIONS/ISSUES
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CHECKED: DANIEL JOHNSON													
CLIENT'S COUNTY: SCHOOLS & CLIENT'S REPRESENTATIVE DYLAN JOHNSON	APPROVED: TERRESHA CHAMPION												
DATE OF REVIEW 02/27/2024	REVISIONS/ISSUES												
REVISION #		NOTICE THE FOLLOWING: FIRST DOCUMENT: COPIES OF THIS DRAWING FOR SCHOOLS ONLY HAVE ACCEPTED THIS DOCUMENT FOR ITS CONFORMANCE AND AGREE THAT IT SHALL NOT BE USED IN WHOLE OR IN PART, EXCEPT AS SHOWN HEREON, WITHOUT THE CONSENT OF RAVWOOD .											

CODE INFORMATION

APPLICABLE CODES	
BUILDING:	<u>SOUTH CAROLINA BUILDING CODE 2021</u>
EXISTING:	<u>SOUTH CAROLINA EXISTING BUILDING CODE 2021</u>
MECHANICAL:	<u>SOUTH CAROLINA MECHANICAL CODE 2021</u>
PLUMBING:	<u>SOUTH CAROLINA PLUMBING CODE 2021</u>
GAS:	<u>SOUTH CAROLINA FUEL GAS CODE 2021</u>
ELECTRICAL:	<u>NATIONAL ELECTRICAL CODE 2017</u>
FIRE:	<u>SOUTH CAROLINA FIRE CODE 2021</u>
LIFE SAFETY:	<u>SOUTH CAROLINA FIRE CODE 2021 CHAPTER 9</u>
ENERGY:	<u>INTERNATIONAL ENERGY CONSERVATION CODE 2009</u>

CODE:	ASCE 7-16; IBC 2018
ROOF AREA DIMENSIONS (FEET):	REFER ROOF PLAN
MEAN ROOF HEIGHT FOR ROOFS:	30 FT.
RISK CATEGORY:	III
EXPOSURE CATEGORY:	C
BASIC WIND SPEED (THREE-SECOND PEAK GUST, MPH):	115 MPH

Figure 1 consists of two elevation views, (a) and (b), of a stepped concrete structure. View (a) shows a structure with two steps. The total width is W , divided into W_1 and W_2 . The height is h , divided into h_1 and h_2 . The top surface has a width a and the bottom surface has a width b . Reinforcement bars are shown as circles with crosses. View (b) shows a similar structure but with an additional step, resulting in three width segments: W_1 , W_2 , and W_3 . The height and reinforcement details are similar to view (a).

SECTIONS

MATERIALS LEGEND

ABBREVIATIONS

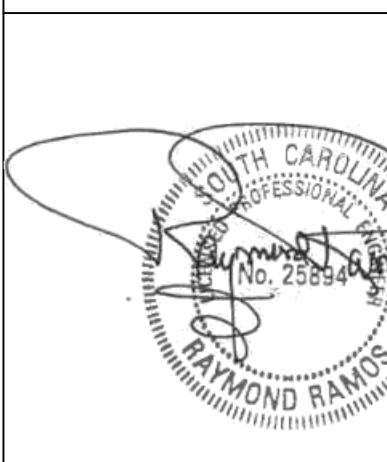
ACC	AIR CONDITIONING	INSUL	INSULATION
ACT	ACOUSTICAL CEILING TILE or ACOUSTICAL TREATMENT	JT	JOINT
AFF	ABOVE FINISHED FLOOR	JT	LAMINATE
@	AT	LAV	LAVATORY
BD	BOARD	LP	LOW POINT
BLDG	BUILDING	MAX	MAXIMUM
BLK	BLOCK	MECH	MECHANICAL
BLK'G	BLOCKING	MTL	METAL
BUR	BUILD UP ROOFING	MIN	MINIMUM
CL	CENTER LINE	MO	MASONRY OPENING
CJ	CONTROL JOINT	NA	NOT APPLICABLE
CLG	CEILING	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OPEN'G(OPN'G)	OPENING
CONC	CONCRETE	PL	PLATE
CONT	CONTINUOUS	PLAS. LAM.	PLASTIC LAMINATE
CU	CONDENSING UNIT	PLYWD	PLYWOOD
DIA	DIAMETER	PT	PRESSURE TREATED
DN	DOWN	RAD	RADIUS
DS	DOWN SPOUT	RD	ROOF DRAIN
DWG	DRAWING	REQD	REQUIRED
EWC	ELECTRIC WATER COOLER	SAT	SUSPENDED ACOUSTICAL TILE
EJ	EXPANSION JOINT	SS	STAINLESS STEEL
EL	ELEVATION	SUSP. CLG.	SUSPENDED CEILING
EXP	EXPANSION	STL	STEEL
EXST'G	EXISTING	SQ	SQUARE
FP	FIREPROOF	THK	THICK
FJ	FIELD JOINT	TREAT'D	TREATED
FIN	FINISH	TOM	TOP OF MASONRY
FL	FLOOR	TOS	TOP OF STEEL
FLASH'G	FLASHING	TYP	TYPICAL
GA	GAUGE	VTR	VENT THRU ROOF
GALV	GALVANIZED	VIF	VERIFY IN FIELD
GL	GLASS	W/	WITH
HM	HOLLOW METAL	W/O	WITHOUT

ROOF DRAINAGE CALCULATION

I = 4.1 INCH/HR IN GREENVILLE, SC PER TABLE B101 (APPENDIX B, 2018 SCPC)
Q= 0.01039 (Axi) GPM
SLOPE OF HORIZONTAL DRAIN ASSUMED 1/8"-1'-0"

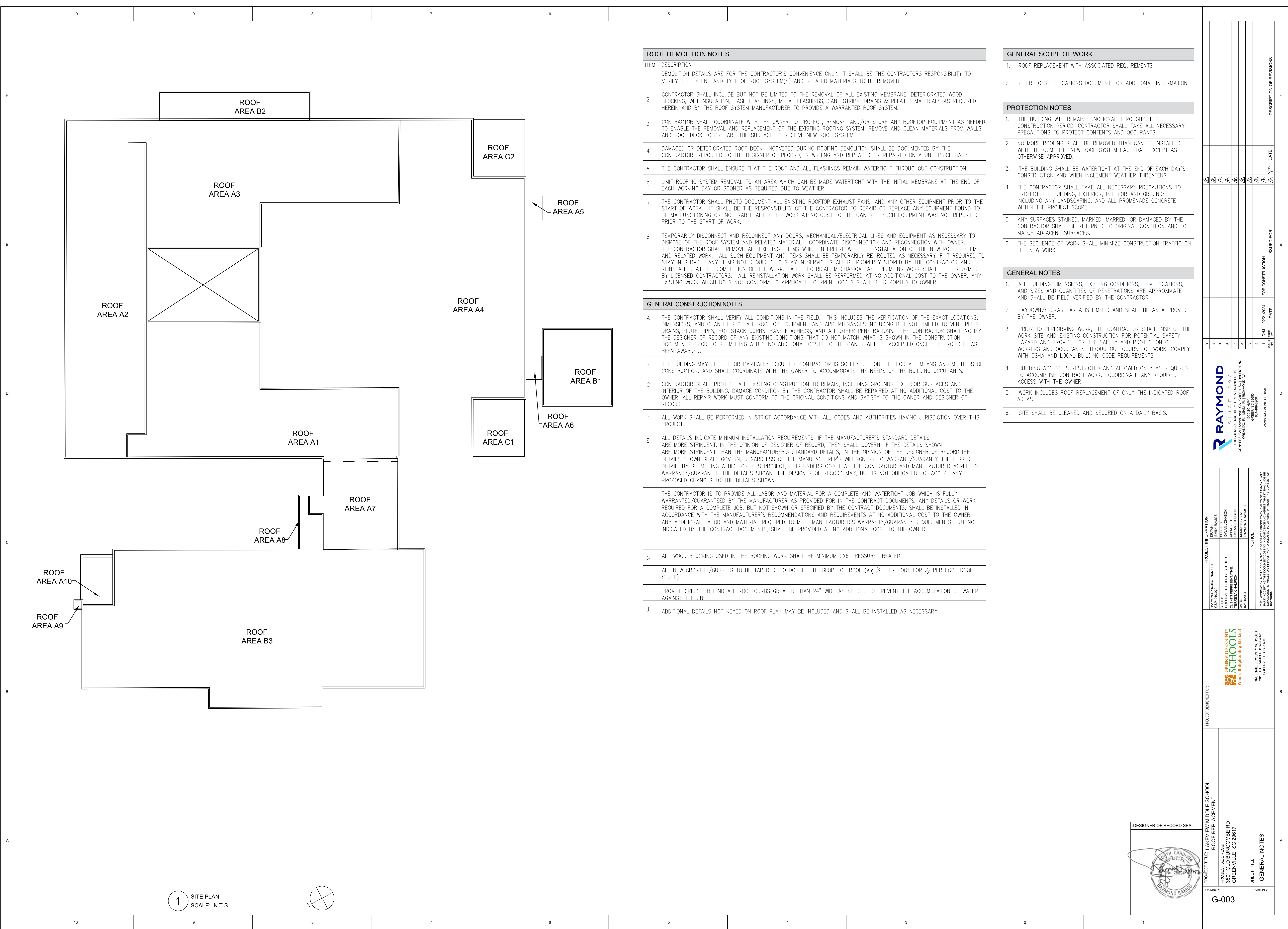
* OVERAGE IS MINIMAL. AS PARAPETS ARE NOT PRESENT, NO CHANGE TO DRAINAGE IS REQUIRED.
** ADDITIONAL 4" DRAINS TO BE INSTALLED IN ROOF AREA A1 & A4. "DRAINAGE FLOW RATE PER DRAIN (GPM)" WILL REDUCE FROM 150 GPM TO 90 GPM.

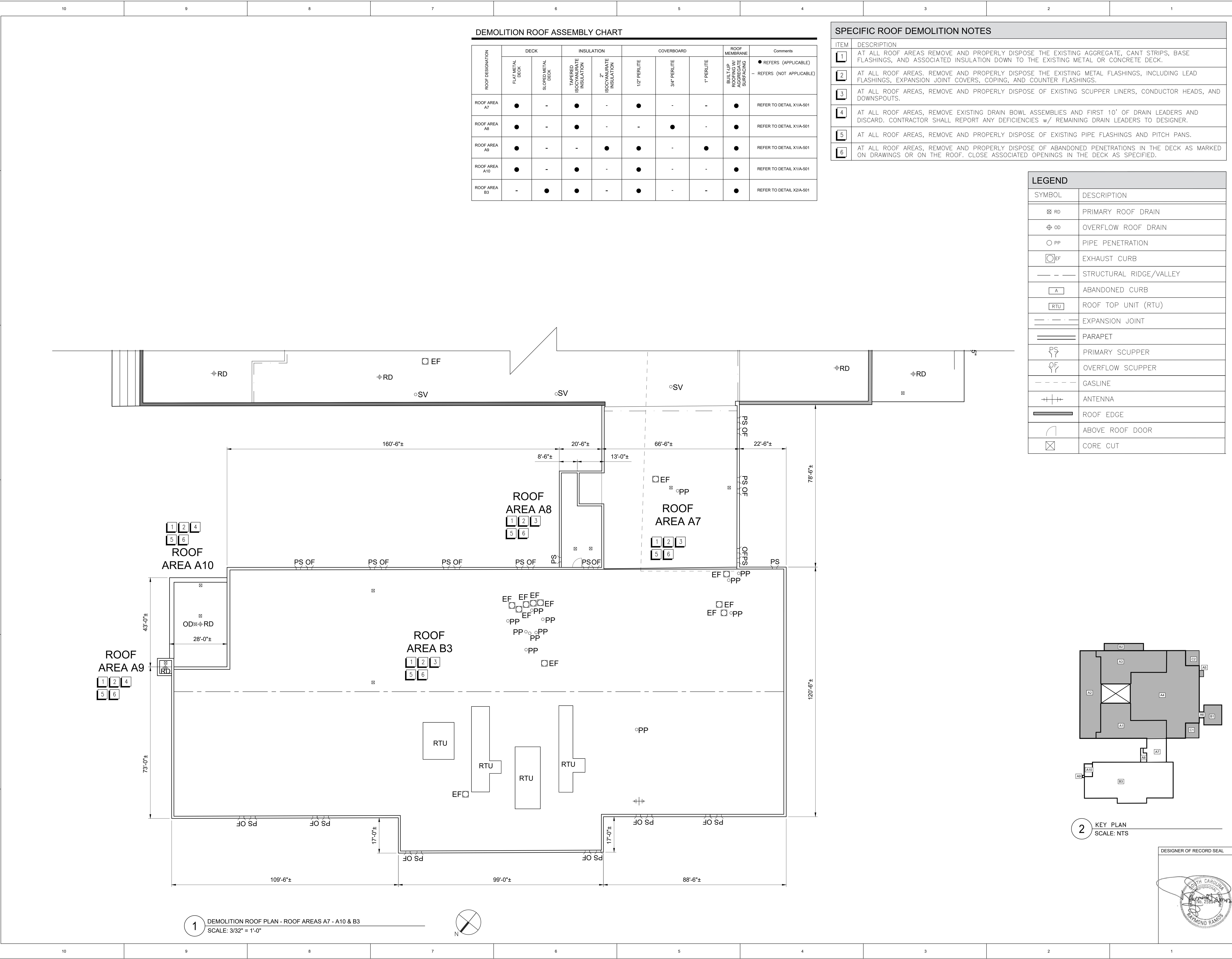
DESIGNER OF RECORD SEAL



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[illegible]

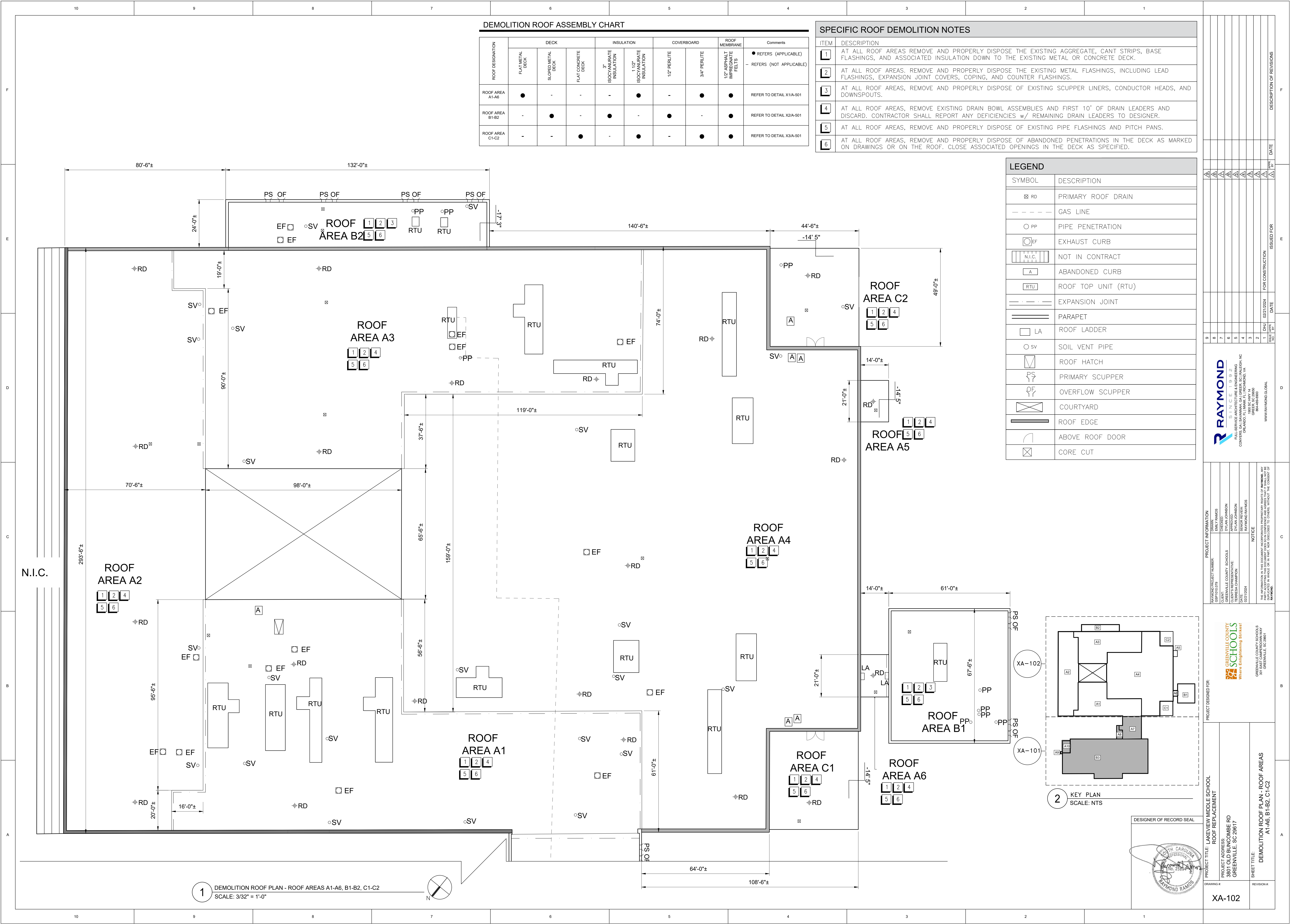




PROJECT INFORMATION		PROJECT DESIGNED FOR		PROJECT TITLE	
RAYMOND PROJECT NUMBER: GRP101079	DESIGNED BY: EMILY RAMOS	GREENVILLE COUNTY SCHOOLS	ROOF REPLACEMENT	LAKEVIEW MIDDLE SCHOOL	
CLIENT REPRESENTATIVE: JEREMIAH CHAMPION	APPROVED BY: DYLAN JOHNSON	GREENVILLE COUNTY SCHOOLS	380 OLD BUCKHORN RD	GREENVILLE, SC 29617	
DATE: 02/21/2024	NOTICE	RAYMOND RAYMOND	380 OLD BUCKHORN RD	GREENVILLE, SC 29617	
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REVISIONS		FOR CONSTRUCTION		ISSUED FOR	
NO.	DATE	BY	DATE	DATE	DESCRIPTION OF REVISIONS
1	02/21/2024	EMILY RAMOS			
2					
3					
4					
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NEW ROOF ASSEMBLY CHART

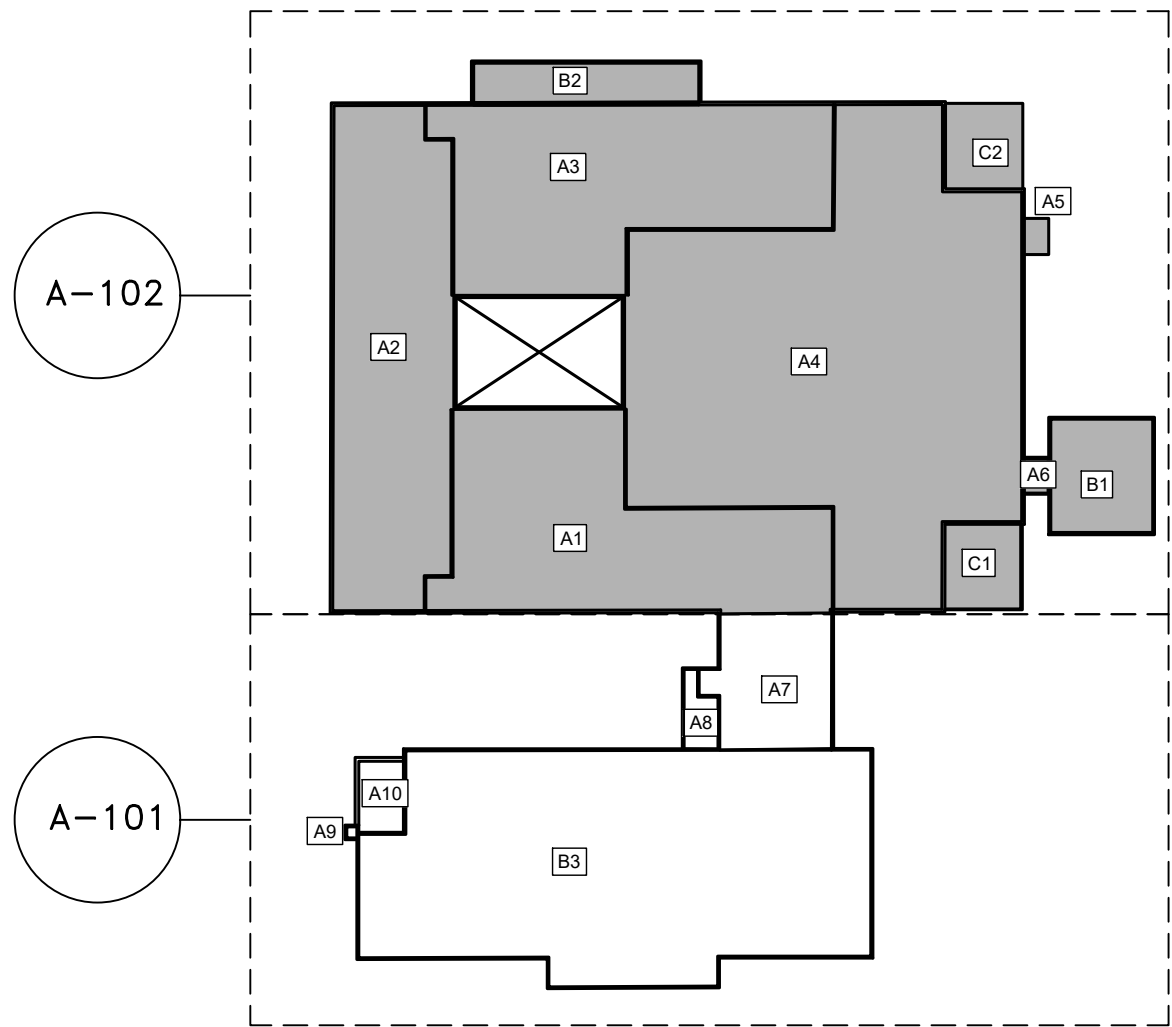
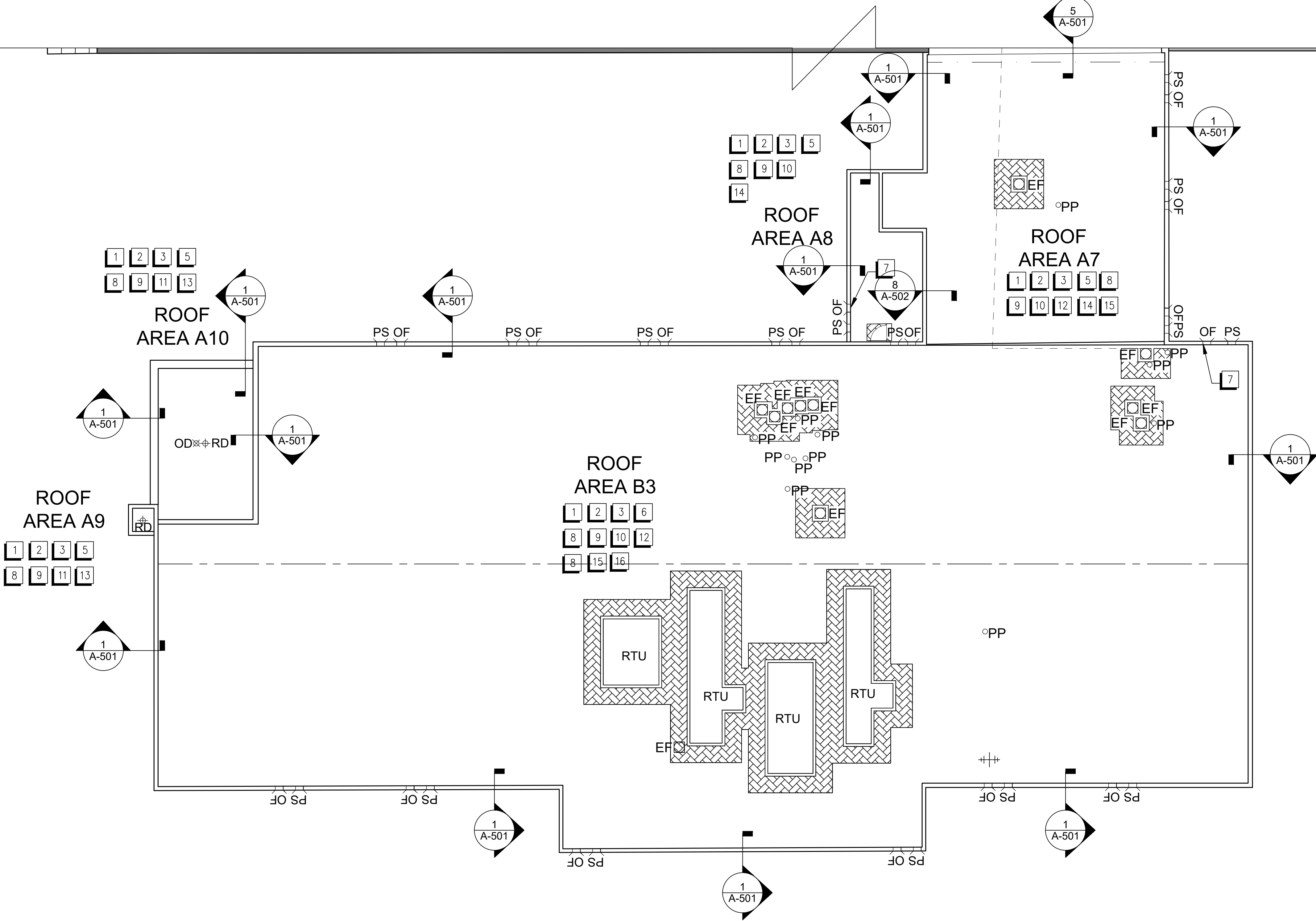
ROOF DESIGNATION	DECK		FIRST LAYER INSULATION		SECOND LAYER INSULATION	TAPERED INSULATION	COVER BOARD	ROOF MEMBRANE	Comments
	FLAT METAL DECK	SLOPED METAL DECK	2" MECHANICALLY FASTENED ISOCYANURATE	1-1/2" MECHANICALLY FASTENED ISOCYANURATE	2" ADHERED ISOCYANURATE	2" TPO ROOF TAPERED ISOCYANURATE ADHERED	NEW 1/2" GYPSUM	ADHERED 60-MIL TPO or PVC (ADD ALT NO. 1 BOWLING)	
ROOF AREA A7-A10	●	-	-	●	●	●	●	●	REFER TO DETAIL A/A-501
ROOF AREA B3	-	●	●	-	●	-	●	●	REFER TO DETAIL B/A-501

LEGEND

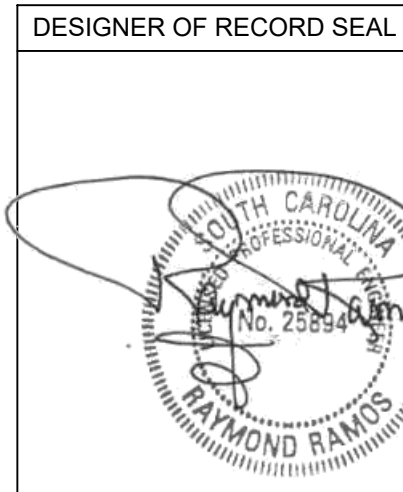
SYMBOL	DESCRIPTION	DETAIL
⊗ RD	PRIMARY ROOF DRAIN	6/A-501
⊕ OD	OVERFLOW ROOF DRAIN	7/A-501
○ PP	PIPE PENETRATION	8/A-501
⊙ EF	EXHAUST FAN	3/A-501
[Hatched]	WALKWAY PADS	
[RTU]	ROOF TOP UNIT (RTU)	3/A-501
[---]	EXPANSION JOINT	5&9/A-501
[=====]	PARAPET	1/A-501
PS	PRIMARY SCUPPER, CONDUCTOR HEAD, & DOWNSPOUT	1&3/A-502
OF	OVERFLOW SCUPPER	2/A-502
----	GASLINE	11/A-501
++	ANTENNA	
[Arch]	ABOVE ROOF DOOR	

SPECIFIC NEW ROOF NOTES

ITEM	DESCRIPTION
1	AT ALL ROOF AREAS, RAISE EXISTING CURBS TO A MINIMUM FINISHED FLASHING HEIGHT OF 8-INCHES ABOVE THE NEW ROOF SURFACE.
2	AT ALL ROOF AREAS, EXTEND SOIL VENT PIPES TO A MINIMUM FINISHED FLASHING HEIGHT OF 8-INCHES ABOVE THE NEW ROOF SURFACE.
3	AT ALL ROOF AREAS, REMOVE AND REPLACE ANY DETERIORATED WOOD BLOCKING, AS SPECIFIED. REFER TO UNIT PRICE NO. 1.
4	AT ALL ROOF AREAS, FURNISH AND INSTALL NEW WOOD BLOCKING AT ROOF EAVES AND RAKE EDGES TO MATCH THE LEVEL OF THE NEW ROOF.
5	AT ROOF AREAS A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 AND A11 FURNISH AND INSTALL A NEW 60-MIL ADHERED TPO OR PVC ROOF SYSTEM, ADHERED COVERBOARD, ONE LAYER OF ADHERED 1/8-INCH-PER-FOOT TAPERED ISOCYANURATE INSULATION, ONE LAYER OF ADHERED ISOCYANURATE INSULATION, AND ONE LAYER OF MECHANICALLY FASTENED ISOCYANURATE INSULATION (MIN R-20), AS SPECIFIED. i) PROVIDE MANUFACTURER'S 20-YEAR NO DOLLAR LIMIT WARRANTY. b) (ADDITIVE ALTERNATE NO. (1) FURNISH AND INSTALL A NEW 80-MIL ADHERED TPO OR PVC ROOF SYSTEM IN LIEU OF THE 60-MIL MEMBRANE IN ALL ROOF AREAS. i) PROVIDE MANUFACTURER'S 30-YEAR NO DOLLAR LIMIT WARRANTY
6	AT ROOF AREAS B3, FURNISH AND INSTALL A NEW 60-MIL ADHERED TPO OR PVC ROOF SYSTEM, ADHERED COVERBOARD, ONE LAYER OF ADHERED ISOCYANURATE INSULATION, AND ONE LAYER OF MECHANICALLY FASTENED ISOCYANURATE INSULATION (MIN R-20), AS SPECIFIED. i) PROVIDE MANUFACTURER'S 20-YEAR NO DOLLAR LIMIT WARRANTY. b) (ADDITIVE ALTERNATE NO. (1) FURNISH AND INSTALL A NEW 80-MIL ADHERED TPO OR PVC ROOF SYSTEM IN LIEU OF THE 60-MIL MEMBRANE IN ALL ROOF AREAS. i) PROVIDE MANUFACTURER'S 30-YEAR NO DOLLAR LIMIT WARRANTY
7	FURNISH AND INSTALL NEW OVERFLOW SCUPPERS AT ROOF AREA A8 AND A9. MINIMUM SIZE SHALL MATCH ADJACENT PRIMARY SCUPPER
8	AT ALL ROOF AREAS, FURNISH AND INSTALL SEPARATOR BOARD AND NEW 60-MIL TPO OR PVC MEMBRANE BASE FLASHINGS AND MEMBRANE EXPANSION JOINTS, AS NECESSARY AND AS SPECIFIED.
9	AT ALL ROOF AREAS, FURNISH AND INSTALL NEW METAL FLASHINGS, INCLUDING, COPING, GRAVEL STOPS, AND COUNTERFLASHING AS SPECIFIED.
10	AT ROOF AREAS A7, A8, B3, FURNISH AND INSTALL NEW SCUPPER LINERS, CONDUCTOR HEADS, AND DOWNSPOUTS AS SPECIFIED.
11	AT ROOF AREAS A9 & A10 FURNISH AND INSTALL NEW DRAIN ASSEMBLIES AS SPECIFIED.
12	ENLARGE EXISTING OVERFLOW SCUPPERS. REFER TO DRAINAGE ANALYSIS CHART ON G-002 FOR MINIMUM REQUIRED SIZE FOR PRIMARY SCUPPERS. OVERFLOW SCUPPERS SHALL, AT A MINIMUM, MATCH THE ADJACENT PRIMARY SCUPPER SIZE.
13	FURNISH AND INSTALL NEW 4" DRAIN BOWL ASSEMBLIES AS SPECIFIED.
14	FURNISH AND INSTALL NEW SPLASH BLOCKS AT ALL DOWNSPOUTS THAT EMPTY ONTO THE ROOF SURFACE OR ONTO THE GROUND AS SPECIFIED.
15	RAISE, SCRAPE, PRIME, AND PAINT GAS LINES. FURNISH AND INSTALL NEW NON-PENETRATING PREMANUFACTURED SUPPORTS AS SPECIFIED.
16	REMOVE ALL PVC CONDENSATION LINES AND REPLACE WITH NEW COPPER CONDENSATION LINES AS SPECIFIED. EXISTING COPPER CONDENSATION LINES SHALL REMAIN.



2 KEY PLAN
SCALE: NTS

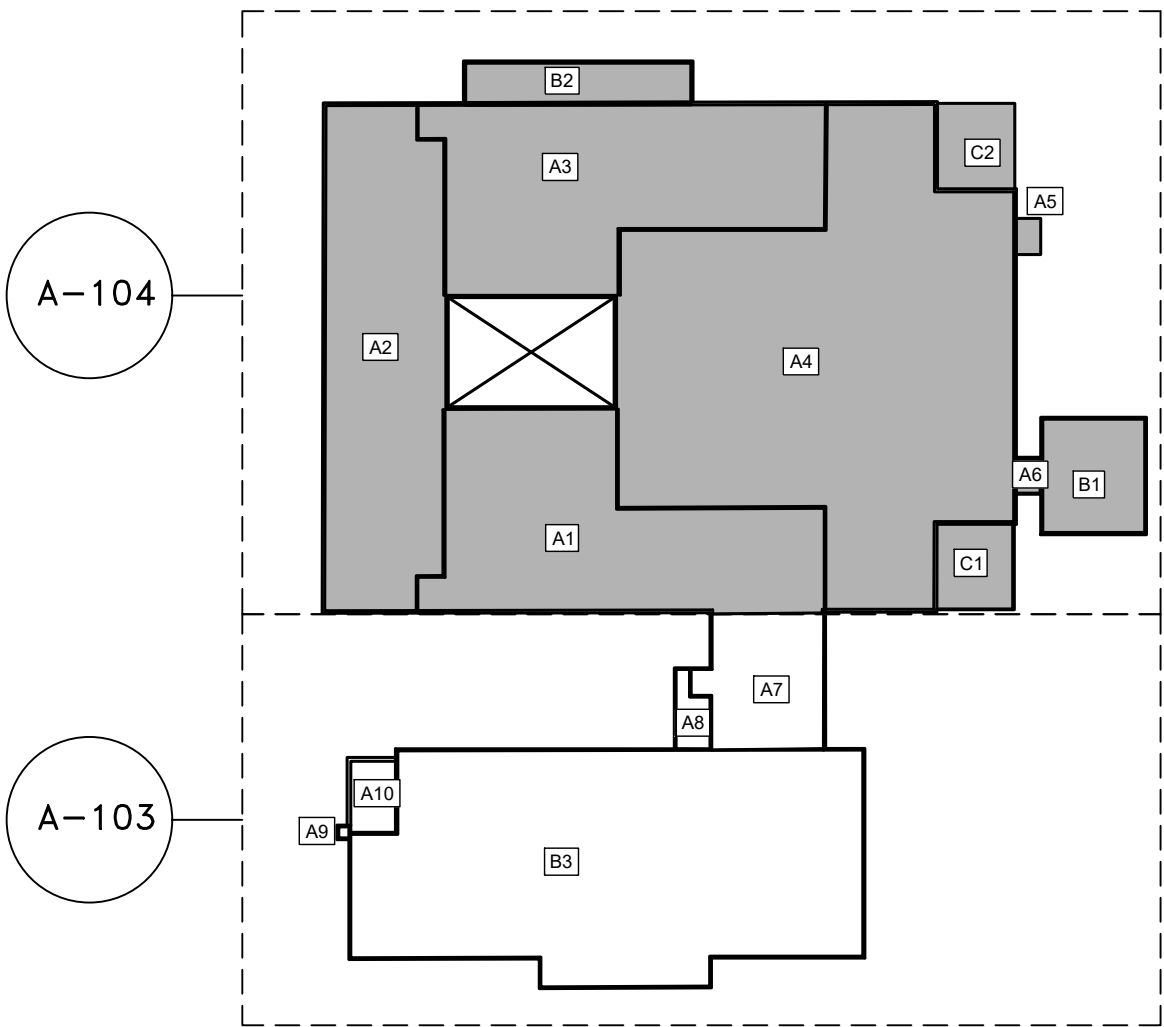
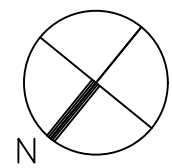


1 NEW ROOF PLAN - ROOF AREAS A7 - A10 & B3
SCALE: 3/32" = 1'-0"

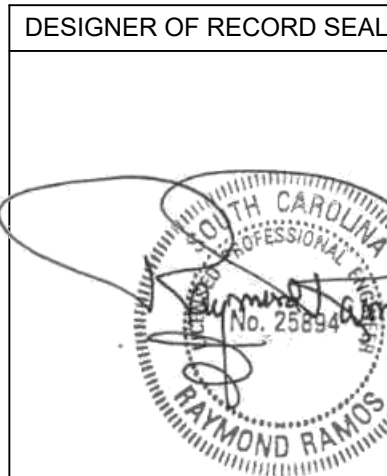
PROJECT INFORMATION RAYMOND PROJECT NUMBER: GSP101079 CLIENT: GREENVILLE COUNTY SCHOOLS CLIENT REPRESENTATIVE: JESSICA CHAMPION PROJECT ADDRESS: 380 OLD BUNCOMBE RD GREENVILLE, SC 29617 DATE: 02/21/2024 NOTICE: THE INFORMATION IN THIS DOCUMENT INCORPORATES PROPRIETARY RIGHTS OF RAYMOND. ANY REUSE OR MODIFICATION OF THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF RAYMOND IS PROHIBITED.		PROJECT DESIGNED FOR PROJECT TITLE: LAKEVIEW MIDDLE SCHOOL ROOF REPLACEMENT PROJECT ADDRESS: 380 OLD BUNCOMBE RD GREENVILLE, SC 29617 SHEET TITLE: NEW ROOF PLAN - ROOF AREAS A7 - A10 & B3 DRAWING #: A-101 REVISION #:		RAYMOND SINCE 1992 RAYMOND RAMO GREENVILLE, SC 29617 WWW.RAYMONDGLOBAL.COM		DESCRIPTION OF REVISIONS	
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1 TAPERED ROOF PLAN - ROOF AREAS A7 - A10 & B3
SCALE: 3/32" = 1'-0"



2 KEY PLAN
SCALE: NTS



PROJECT TITLE: LAKEVIEW MIDDLE SCHOOL
ROOF REPLACEMENT

PROJECT ADDRESS:
380 OLD BUCKHORN RD
GREENVILLE, SC 29617



PROJECT INFORMATION
DRAWN BY: EMILY RAMOS
CHECKED BY: DYLAN JOHNSON
APPROVED BY: JESSICA CHAMPION
CLIENT REPRESENTATIVE: JESSICA CHAMPION
PROJECT NUMBER: 02210204
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DATE: 02/27/2024
ISSUED BY: RRM

NO.	DATE	DESCRIPTION OF REVISIONS
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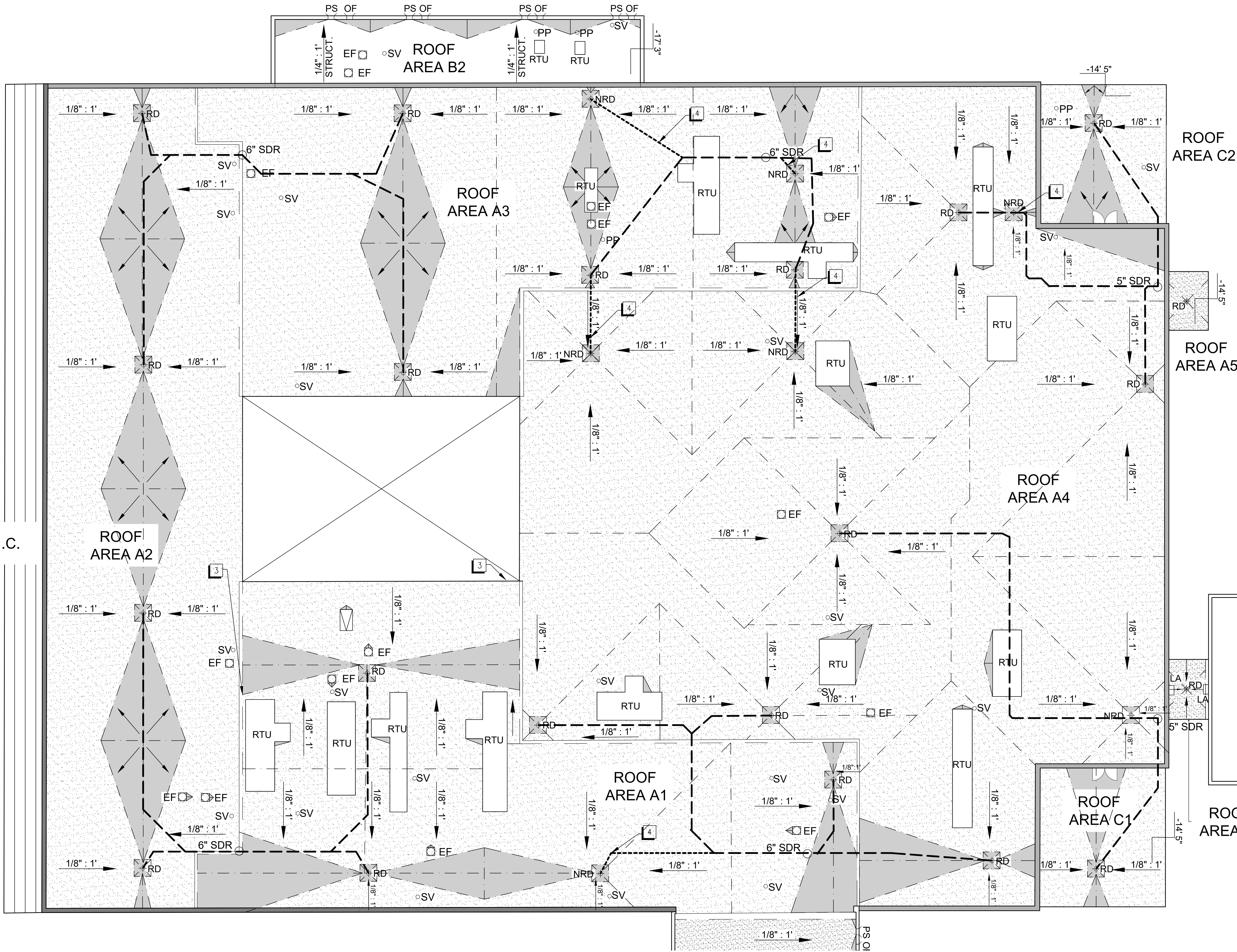
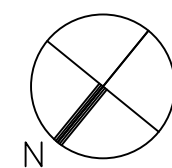
SPECIFIC TAPERED INSULATION NOTES

ITEM	DESCRIPTION
1	ALL NEW CRICKETS/GUSSETS TO BE TAPERED ISO DOUBLE THE SLOPE OF ROOF. (e.g. 1/4" PER FOOT FOR 1/2" PER FOOT ROOF.)
2	PROVIDE CRICKET BEHIND ALL ROOF CURBS GREATER THAN 24" WIDE AS NEEDED TO PREVENT THE ACCUMULATION OF WATER AGAINST THE UNIT.

LEGEND

SYMBOL	DESCRIPTION
	PRIMARY ROOF DRAIN
	OVERFLOW ROOF DRAIN
	PIPE PENETRATION
	EXPANSION JOINT
	WALKWAY PADS
	ROOF TOP UNIT (RTU)
	EXPANSION JOINT
	PARAPET
	PRIMARY SCUPPER, CONDUCTOR HEAD, & DOWNSPOUT
	OVERFLOW SCUPPER
	GASLINE
	ANTENNA
	DOOR
	SLOPE
	RIDGE
	TAPERED INSULATION
	CRICKETS

1 TAPERED ROOF PLAN - ROOF AREAS A1-A6, B1-B2, C1-C2
SCALE: 3/32" = 1'-0"

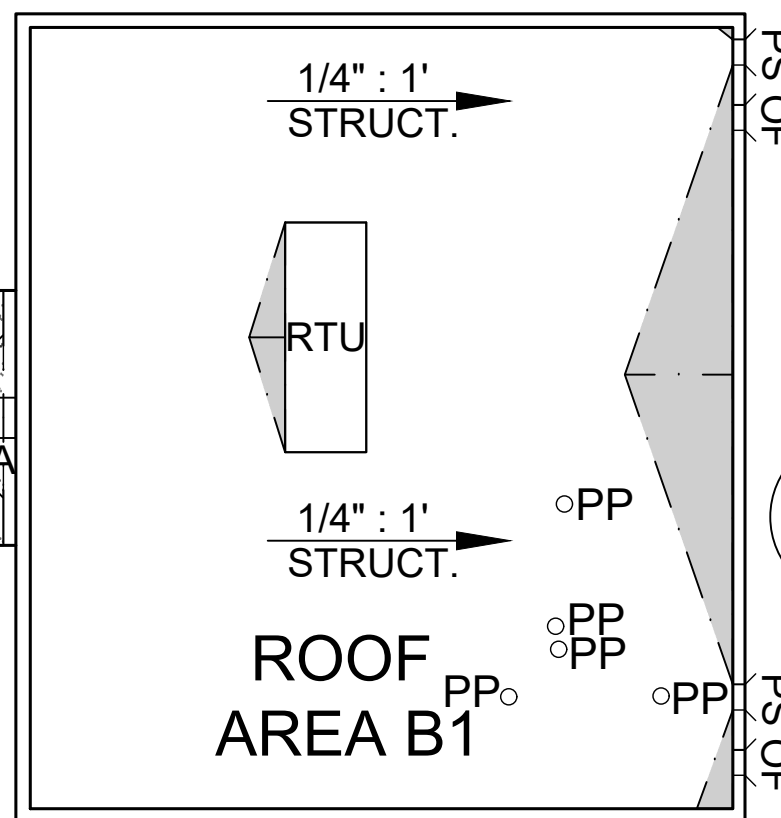


SPECIFIC TAPERED INSULATION NOTES

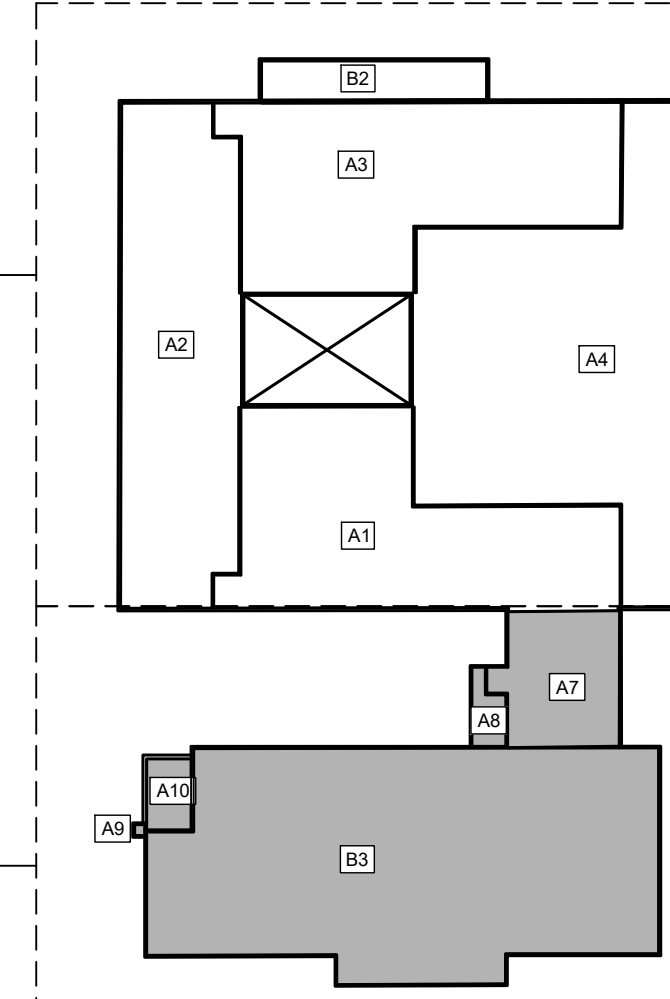
ITEM	DESCRIPTION
1	ALL NEW CRICKETS/GUSSETS TO BE TAPERED ISO DOUBLE THE SLOPE OF ROOF. (e.g. 1/4" PER FOOT FOR 1/8" PER FOOT ROOF.)
2	PROVIDE CRICKET BEHIND ALL ROOF CURBS GREATER THAN 24" WIDE AS NEEDED TO PREVENT THE ACCUMULATION OF WATER AGAINST THE UNIT.
3	REDUCE CRICKET SIZE WHERE REQUIRED TO PREVENT PONDING AT UNITS.
4	FURNISH AND INSTALL NEW DRAIN ASSEMBLIES AND ASSOCIATED LEADERS AT THE LOCATIONS SHOWN ON THE DRAWING. CONNECT NEW DRAIN LEADERS TO EXISTING LEADERS, LOCATIONS ARE REPRESENTATIVE AND MAY BE MODIFIED BY THE CONTRACTOR WITH PRIOR APPROVAL FROM THE DESIGNER TO PROPERLY ADDRESS EXISTING CONDITIONS. EXISTING DRAIN LEADER AND STORM DRAIN RAISER ARE IN ACCORDANCE WITH AS-BUILTS PROVIDED BY GCS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING DRAIN LEADERS.

LEGEND

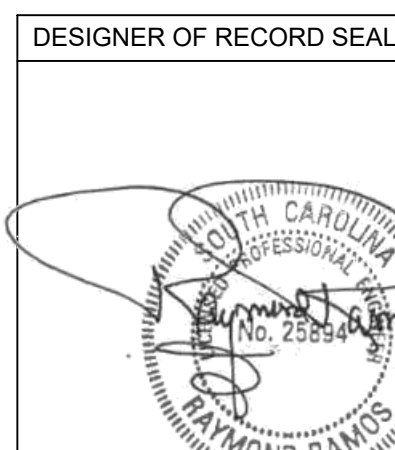
SYMBOL	DESCRIPTION
⊗ RD	PRIMARY ROOF DRAIN
○ SV	SOIL VENT PIPE
○ PP	PIPE PENETRATION
⊙ EF	EXHAUST CURB
⊠ N.I.C.	NOT IN CONTRACT
RTU	ROOF TOP UNIT (RTU)
⊠	COURTYARD
OF	OVERFLOW SCUPPER
⊠	ROOF HATCH
⊠	WALKWAY PADS
---	EXPANSION JOINT
---	PARAPET
LA	ROOF LADDER
PS	PRIMARY SCUPPER, CONDUCTOR HEAD, & DOWNSPOUT
---	ROOF EDGE
---	SLOPE
⊠	TAPERED INSULATION
⊠	CRICKETS
---	EXISTING DRAIN LEADER
---	NEW DRAIN LEADER
○ SDR	STORM DRAIN RISER
⊗ NRD	NEW PRIMARY ROOF DRAIN



ROOF AREA A6



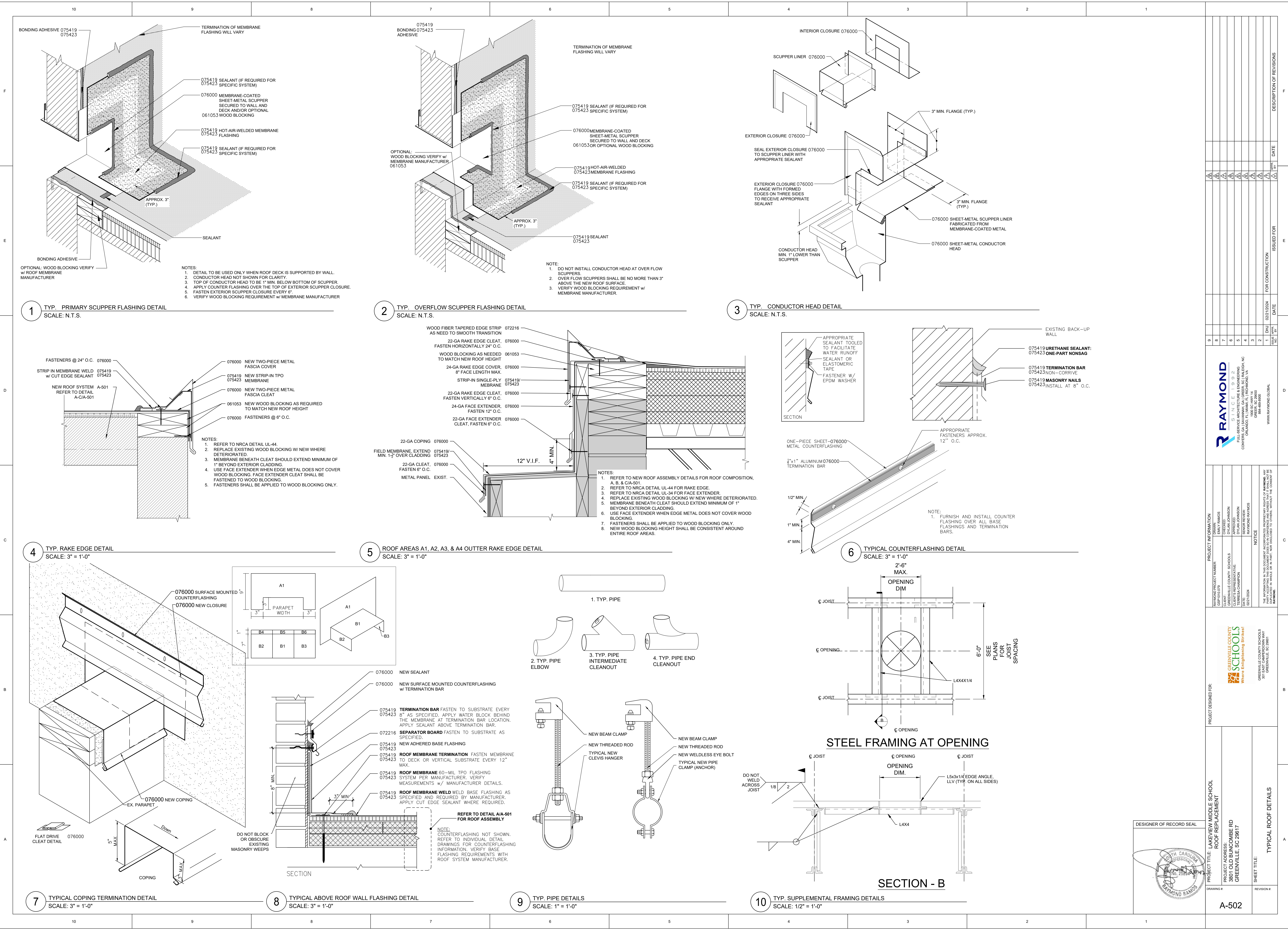
2 KEY PLAN
SCALE: NTS

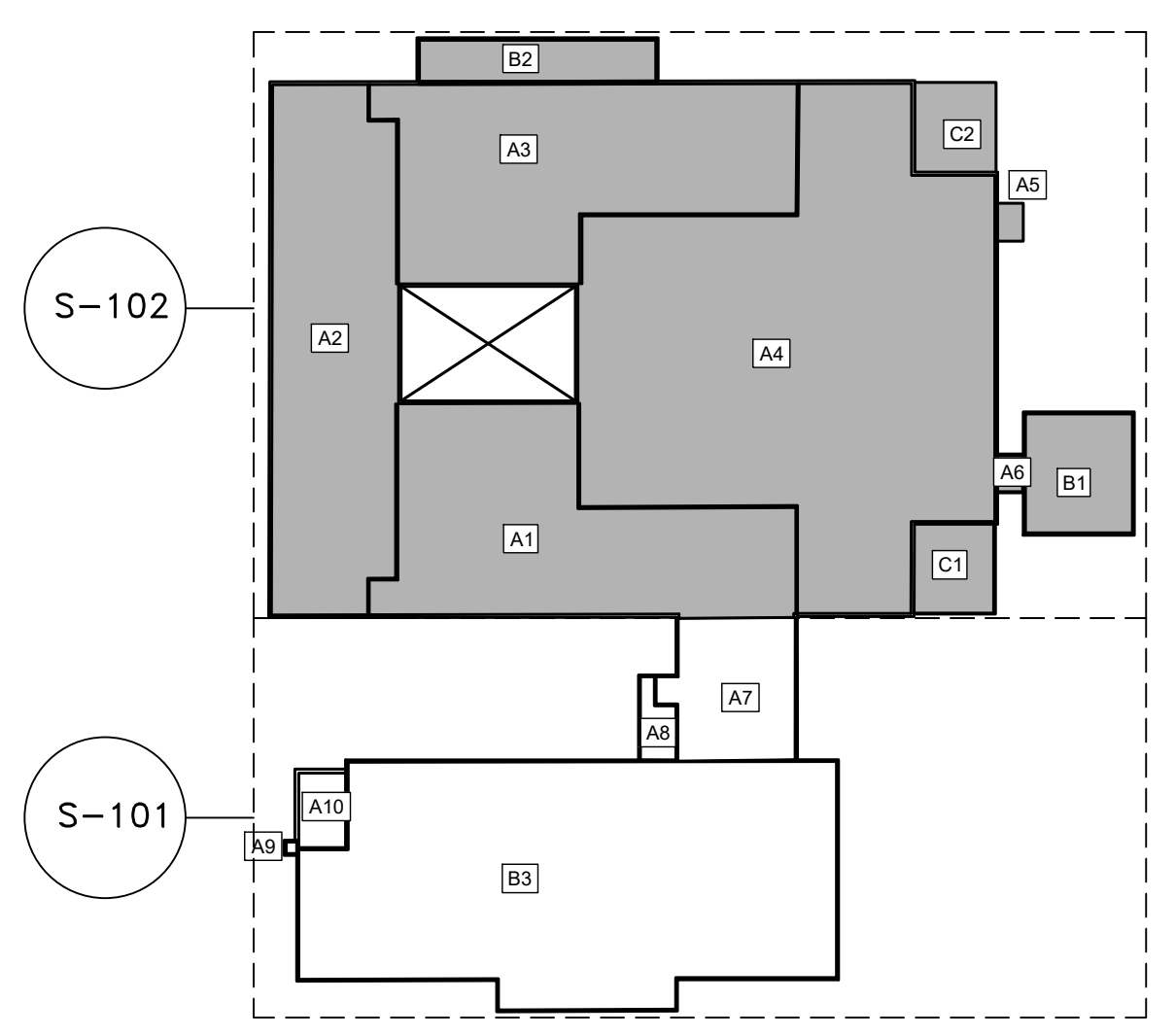
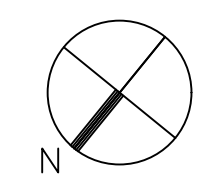


RAYMOND PROJECT NUMBER: 02210204	PROJECT INFORMATION
CLIENT: GREENVILLE COUNTY SCHOOLS	PROJECT INFORMATION
CLIENT REPRESENTATIVE: DYNAN JOHNSON	PROJECT INFORMATION
DESIGNER: RAYMOND RAMO	PROJECT INFORMATION
DATE: 02/21/2024	PROJECT INFORMATION







PROJECT TITLE: LAKEVIEW MIDDLE SCHOOL ROOF REPLACEMENT	PROJECT INFORMATION
PROJECT ADDRESS: 380 OLD BUNCOMBE RD GREENVILLE, SC 29617	PROJECT INFORMATION
SHEET TITLE: TAPERED ROOF PLAN - ROOF AREA ROOF AREAS A1-A6, B1-B2, C1-C2	PROJECT INFORMATION
DRAWING #	REVISION #





LEGEND

	ZONE 1 - FIELD OF ROOF
	ZONE 2 - PERIMETER
	ZONE 3 - CORNER
	ROOF AREA N.I.C.

[illegible]

