

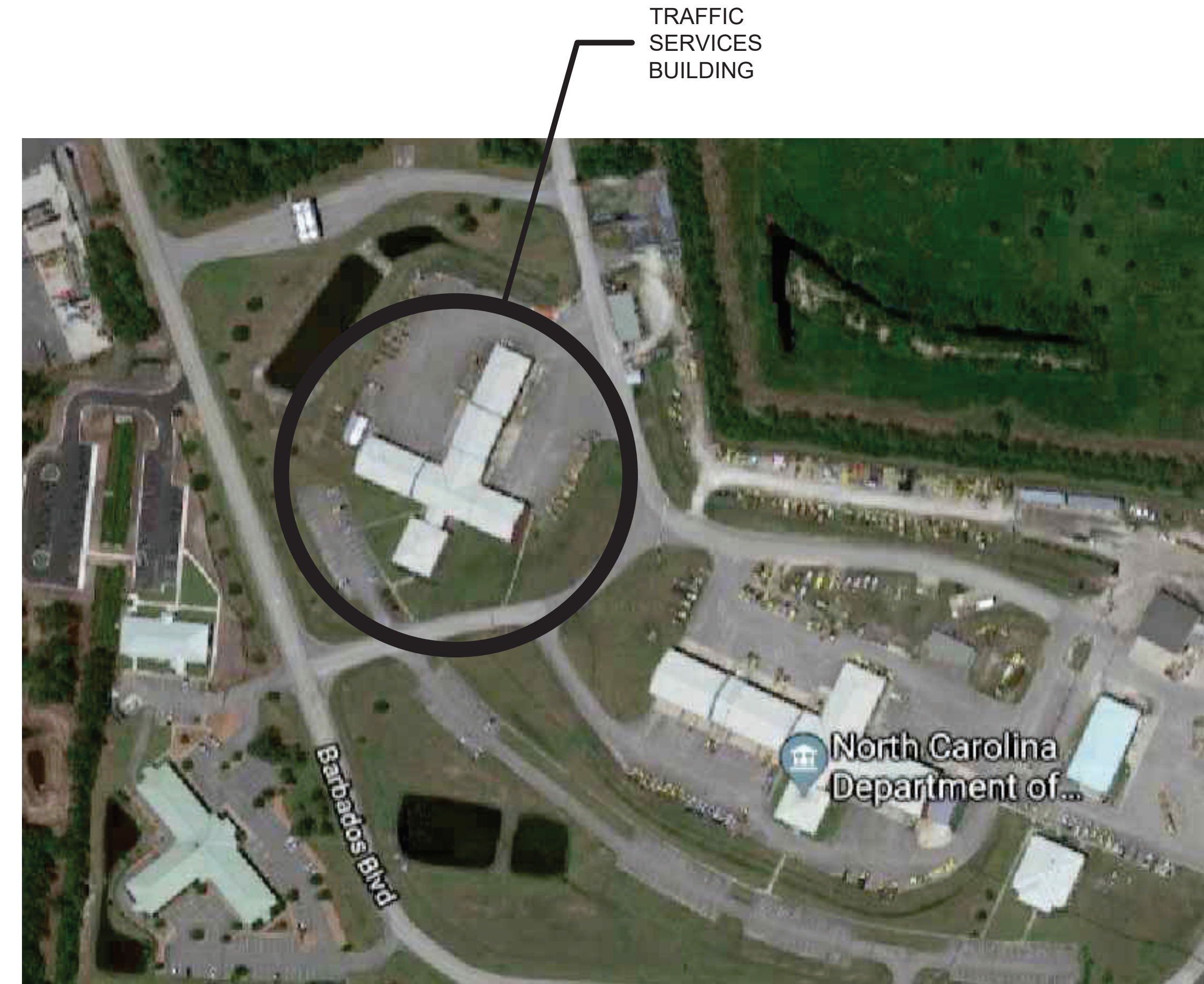
NCDOT DIVISION 3 TRAFFIC SERVICES BUILDING ROOF REPAIRS

5504 Barbados Blvd
Castle Hayne, NC 28429

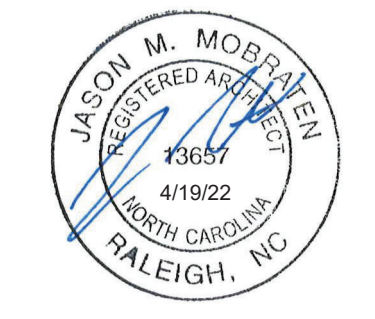
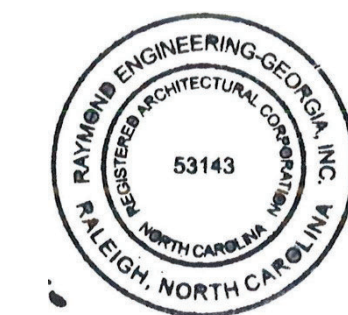
SCO ID# 21-23718-01A

Owner:
North Carolina Department of Transportation
1 South Wilmington Street
Raleigh, NC 27699

PRICING SET 4/19/2022



SITE PLAN
NOT TO SCALE



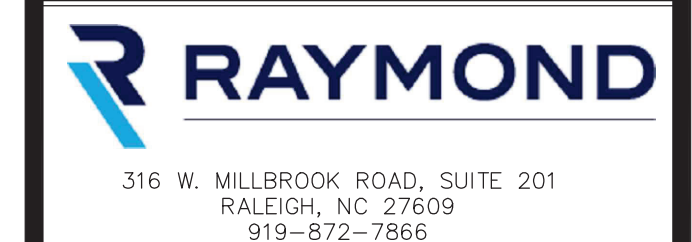
PROJECT MANAGER: ED LEVY
PROJECT ARCHITECT: JASON MOBRATEN
DRAWN: GRETCHEN COBB

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SHEET TITLE

COVER

OWNER
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CASTLE HAYNE, NC 28429
OWNER:
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Raleigh, NC 27699

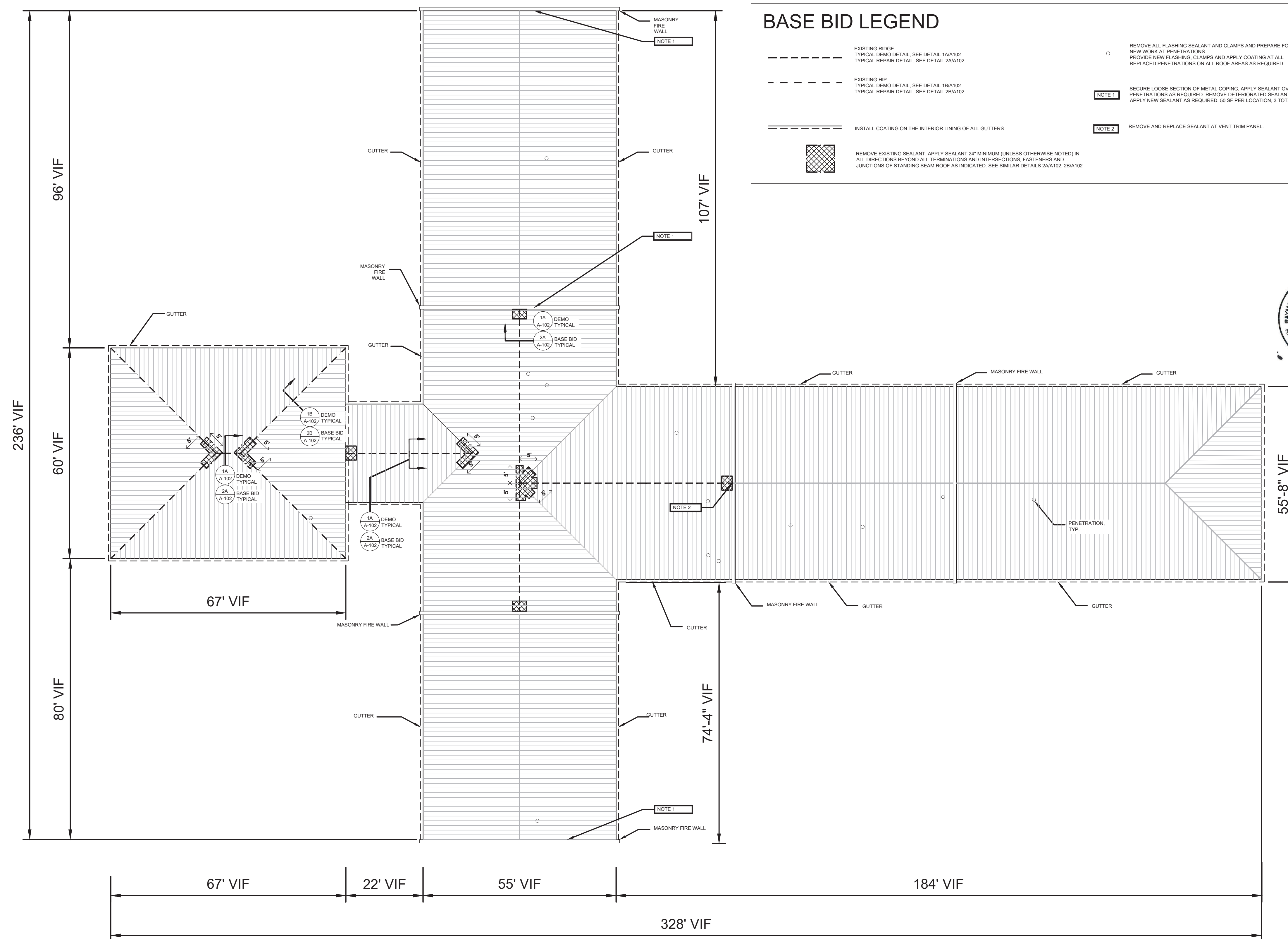


LAST FILED: 4/19/22 RAYMOND PROJECT NO. RAL1004.022
CAD DWG NAME:

SHEET NO. **G-100** REV.

BUILDING CODE SUMMARY – NC 2018 BUILDING CODE FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2—FAMILY DWELLINGS AND TOWNHOUSES)					
Name of Project: <u>NCDOT DIVISION 3 TRAFFIC SERVICES BUILDING ROOF REPAIRS</u>					
Address: <u>5504 Barbados Blvd., Castle Hayne, NC 28429</u> Suite# _____					
Owner or Authorized Agent: <u>Mark Gibson, NC Department of Transportation</u> Phone: <u>984-707-4550</u>					
Email: <u>mgibson1@ncdot.gov</u> Fax _____					
Owned By: <input type="checkbox"/> Privately <input type="checkbox"/> City/County <input checked="" type="checkbox"/> State					
Code Enforcement Jurisdiction: <input type="checkbox"/> City <input type="checkbox"/> County <input checked="" type="checkbox"/> State					
Lead Design Professional/Project Coordinator: <u>Jason Mabraten - Raymond Engineering - Georgia, Inc.</u>					
LEAD DESIGN PROFESSIONAL:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Raymond Engineering	Jason Mabraten	NC 13657	(919) 607-3773	jason.mabraten@raymondinc.com
Building Code: <input checked="" type="checkbox"/> 2018 NC Existing Building Code <input type="checkbox"/> 2018 North Carolina State Building Code (NCSBC)					
Alteration: <input type="checkbox"/> Prescriptive <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Chapter 14 <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III					
Constructed (date): UNKNOWN Original Use(s) (Chap 3): Business					
Renovated (date): UNKNOWN Current Use(s) (Chap 3): Business					
Occupancy Category (table 1604.5) Current: <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV					
Proposed: <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV					
BUILDING DATA THIS SECTION REQUIRED FOR ALL PROJECTS					
Construction Type: <input type="checkbox"/> I-A <input type="checkbox"/> I-B <input type="checkbox"/> II-A <input checked="" type="checkbox"/> II-B <input type="checkbox"/> III-A <input type="checkbox"/> III-B <input type="checkbox"/> IV-HT <input type="checkbox"/> V-A <input type="checkbox"/> V-B					
Mixed construction: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Types _____					
Sprinklers: <input checked="" type="checkbox"/> EXISTING - NO CHANGE					
Standpipes: <input checked="" type="checkbox"/> EXISTING - NO CHANGE					
Fire District: <input checked="" type="checkbox"/> EXISTING - NO CHANGE Flood Hazard <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
Building Height: <u>20'</u> Feet _____ 1 _____ Story					
Basement: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
Mazzanine: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
High Rise: <input checked="" type="checkbox"/> NO <input type="checkbox"/> Yes Life Safety Plan Sheet # (if provided): _____ NOT APPLICABLE					
Gross Building Area:					
Floor: EXISTING (sq. ft.) _____ This Project (sq. ft.) _____ SUB-TOTAL _____					
NO CHANGE					
ALLOWABLE AREA					
Primary Occupancies: <input checked="" type="checkbox"/> Business - No Change					
Accessory Occupancies: <input checked="" type="checkbox"/> Repair Garage - No Change					
ENERGY SUMMARY					
ROOF: EXISTING TO REMAIN - NO CHANGE, REPAIR ONLY					

DRAWING INDEX		DRAWING NOTES	
G-100	COVER PAGE	<ol style="list-style-type: none"> THESE NOTES ARE FOR THE CONTRACTOR, AND ALL ASSOCIATED SUBCONTRACTORS, MANUFACTURERS, AND SUPPLIERS. SHOULD DISCREPANCY EXIST BETWEEN THE DRAWINGS AND SPECIFICATION, THE CONTRACTOR AND/OR SUBCONTRACTOR SHALL MAKE MENTION TO THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING WITH WORK. THE ROOF PLANS AND DETAILS ARE REPRESENTATIVE IN NATURE, AND ARE PROVIDED TO SHOW THE RELATIONSHIP BETWEEN SPECIFIED MATERIALS. FOR CLARITY, ALL SPECIFIED MATERIALS REQUIRED FOR USE MAY NOT BE SHOWN ON DETAILS, AND CONTRACTOR SHALL ENSURE THAT CONSTRUCTION, INSTALLATION, AND APPLICATION OF MATERIALS IS DONE IN ACCORDANCE WITH SPECIFICATION. ALL MEASUREMENTS AND EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO ORDERING MATERIALS AND/OR PROCEEDING WITH WORK. ALL CROSS-SECTIONAL DETAILS REPRESENT TYPICAL CONDITIONS, AND THOSE CROSS-SECTIONAL DETAILS SHALL BE APPLIED IN MERIT TO APPLICABLE AREAS ON THE ROOF EVEN THOUGH NOT SPECIFICALLY MARKED ON DRAWINGS OR REFERRED TO IN SPECIFICATIONS. ALL MANUFACTURER'S RECOMMENDATIONS MUST BE STRICTLY ADHERED TO, UNLESS MORE STRINGENT REQUIREMENTS LIE WITHIN THE SPECIFICATION OR DRAWINGS. NEITHER RAYMOND ENGINEERING-GA, INC. NOR ITS EMPLOYEES, NOR SUBCONSULTANTS ARE RESPONSIBLE FOR ACTS OR OMISSION OF ANY CONTRACTOR, SUBCONTRACTOR, OR MATERIAL SUPPLIERS; FOR SAFETY PRECAUTIONS, PROGRAMS OR ENFORCEMENT; OR FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES EMPLOYED BY THE CONTRACTOR. 	
A-101	BASE BID: ROOF PLAN		
A-101A	ALTERNATES: ROOF PLAN		
A-102	DETAILS		
REFERENCES / DESIGN CONSIDERATIONS			
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
U.L.	UNDERWRITERS' LABORATORIES		
F.M.	FACTORY MUTUAL OR FACTORY MUTUAL RESEARCH CORPORATION		
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR ASSOCIATION		
AIA	AMERICAN INSTITUTE OF ARCHITECTS		
NRCA	NATIONAL ROOFING CONTRACTOR ASSOCIATION		
ARMA	ASPHALT ROOFING MANUFACTURERS ASSOCIATION		
NCBC	NORTH CAROLINA BUILDING CODE 2018 EDITION		
NFPA	NATIONAL FIRE PREVENTION ASSOCIATION		



BASE BID LEGEND

- - - - - EXISTING RIDGE
 TYPICAL DEMO DETAIL, SEE DETAIL 1AA102
 TYPICAL REPAIR DETAIL, SEE DETAIL 2AA102

- - - - - EXISTING HIP
 TYPICAL DEMO DETAIL, SEE DETAIL 1BA102
 TYPICAL REPAIR DETAIL, SEE DETAIL 2BA102

- - - - - INSTALL COATING ON THE INTERIOR LINING OF ALL GUTTERS

[Cross-hatched box] REMOVE EXISTING SEALANT, APPLY SEALANT 3" MINIMUM (UNLESS OTHERWISE NOTED) IN ALL DIRECTIONS BEYOND ALL TERMINATIONS AND INTERSECTIONS, FASTENERS AND JUNCTIONS OF STANDING SEAM ROOF AS INDICATED. SEE SIMILAR DETAILS 2AA102, 2BA102

○ REMOVE ALL FLASHING SEALANT AND CLAMPS AND PREPARE FOR NEW WORK AT PENETRATIONS. PROVIDE NEW FLASHING, CLAMPS AND APPLY COATING AT ALL REPLACED PENETRATIONS ON ALL ROOF AREAS AS REQUIRED

NOTE 1 SECURE LOOSE SECTION OF METAL COPING, APPLY SEALANT OVER PENETRATIONS AS REQUIRED. REMOVE DETERIORATED SEALANT AND APPLY NEW SEALANT AS REQUIRED. 50 SF PER LOCATION, 3 TOTAL

NOTE 2 REMOVE AND REPLACE SEALANT AT VENT TRIM PANEL.

REV.	BY	DESCRIPTION	DATE	APPROVED BY	ISSUED FOR	DATE	ISSUED BY
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2							
1	JMM		4/19/2022		PRICING SET		

CERTIFICATIONS





PROJECT MANAGER: ED LEVY
 PROJECT ARCHITECT: JASON MOBRATEN
 DRAWN: GRETCHEN COBB

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SHEET TITLE
BASE BID ROOF PLAN

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 PROJECT:
SCO#21-23718-01A
NCDOT DIVISION 3 TRAFFIC SERVICES BUILDING ROOF REPAIRS
 5504 BARBADOS BLVD.
 CASTLE HAYNE, NC 28429

OWNER:
North Carolina Department of Transportation
 1 South Wilmington Street
 Raleigh, NC 27699

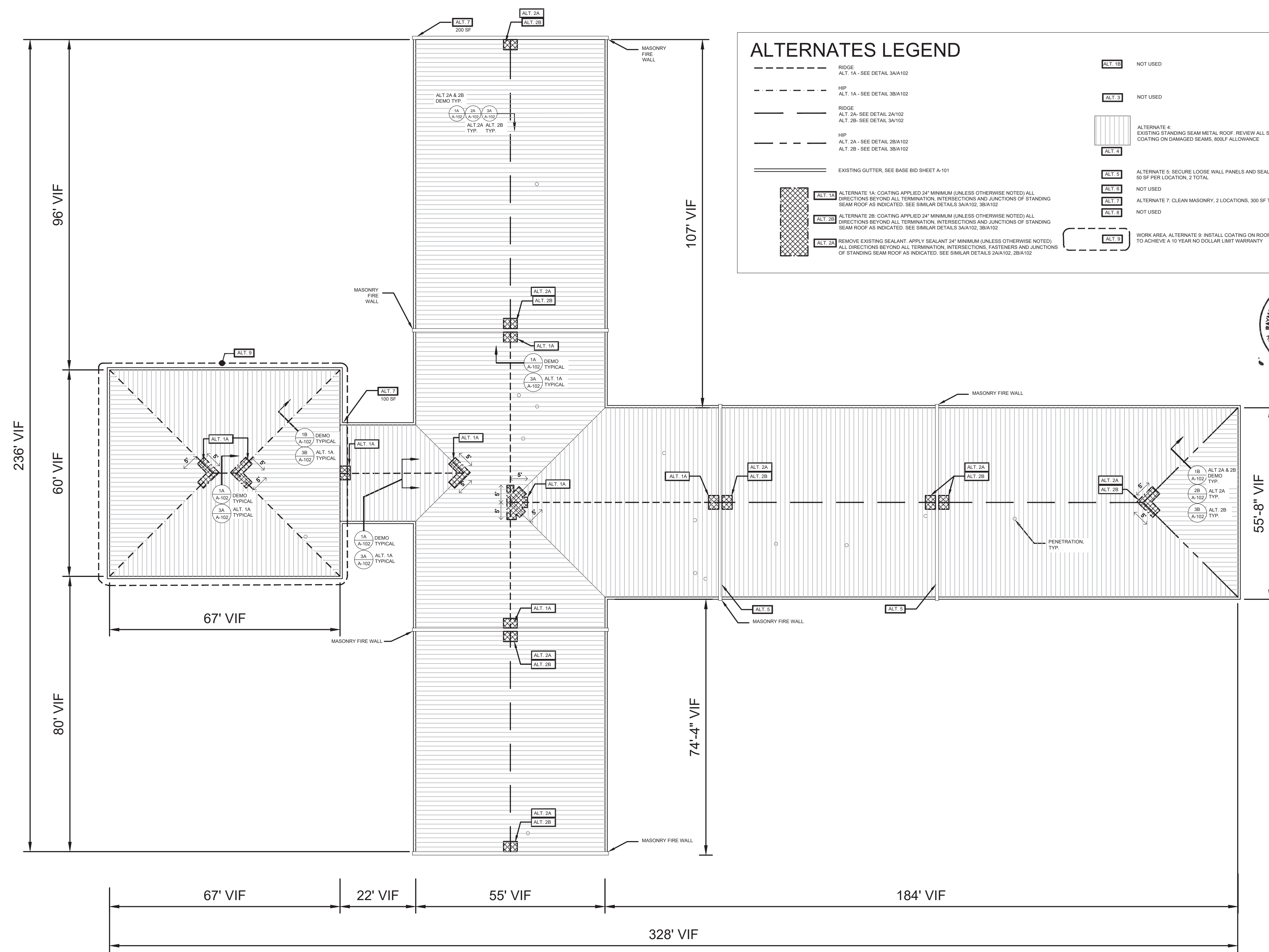


316 W. MILLBROOK ROAD, SUITE 201
 RALEIGH, NC 27609
 919-872-7866

LAST FILED: 4/19/22 RAYMOND PROJECT NO. RAL1004.022
 CAD DWG NAME:

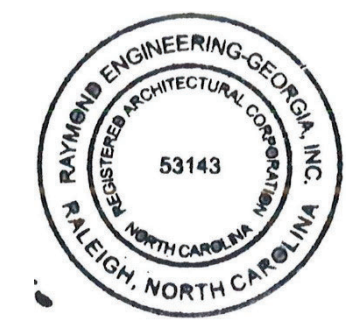
SHEET NO. A-101 REV. 0

1 TRAFFIC SERVICES BUILDING ROOF PLAN
 SCALE: 1/16" = 1'-0"



ALTERNATES LEGEND

- RIDGE
ALT. 1A - SEE DETAIL 3A/A102
- HP
ALT. 1A - SEE DETAIL 3B/A102
- RIDGE
ALT. 2A - SEE DETAIL 2A/102
ALT. 2B - SEE DETAIL 3A/102
- HP
ALT. 2A - SEE DETAIL 2B/A102
ALT. 2B - SEE DETAIL 3B/A102
- EXISTING GUTTER, SEE BASE BID SHEET A-101
- ALT. 1A ALTERNATE 1A: COATING APPLIED 24" MINIMUM (UNLESS OTHERWISE NOTED) ALL DIRECTIONS BEYOND ALL TERMINATION, INTERSECTIONS AND JUNCTIONS OF STANDING SEAM ROOF AS INDICATED. SEE SIMILAR DETAILS 3A/A102, 3B/A102
- ALT. 2A ALTERNATE 2A: COATING APPLIED 24" MINIMUM (UNLESS OTHERWISE NOTED) ALL DIRECTIONS BEYOND ALL TERMINATION, INTERSECTIONS AND JUNCTIONS OF STANDING SEAM ROOF AS INDICATED. SEE SIMILAR DETAILS 3A/A102, 3B/A102
- ALT. 2B ALTERNATE 2B: COATING APPLIED 24" MINIMUM (UNLESS OTHERWISE NOTED) ALL DIRECTIONS BEYOND ALL TERMINATION, INTERSECTIONS AND JUNCTIONS OF STANDING SEAM ROOF AS INDICATED. SEE SIMILAR DETAILS 3A/A102, 3B/A102
- ALT. 2A REMOVE EXISTING SEALANT, APPLY SEALANT 24" MINIMUM (UNLESS OTHERWISE NOTED) ALL DIRECTIONS BEYOND ALL TERMINATION, INTERSECTIONS, FASTENERS AND JUNCTIONS OF STANDING SEAM ROOF AS INDICATED. SEE SIMILAR DETAILS 3A/A102, 3B/A102
- ALT. 3 NOT USED
- ALT. 4 ALTERNATE 4: EXISTING STANDING SEAM METAL ROOF. REVIEW ALL SEAMS, APPLY COATING ON DAMAGED SEAMS, 60% ALLOWANCE
- ALT. 5 ALTERNATE 5: SECURE LOOSE WALL PANELS AND SEAL PENETRATIONS. 50 SF PER LOCATION, 2 TOTAL
- ALT. 6 NOT USED
- ALT. 7 ALTERNATE 7: CLEAN MASONRY, 2 LOCATIONS, 300 SF TOTAL
- ALT. 8 NOT USED
- ALT. 9 WORK AREA, ALTERNATE 9: INSTALL COATING ON ROOF IN ITS ENTIRETY TO ACHIEVE A 10 YEAR NO DOLLAR LIMIT WARRANTY



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**ALTERNATES:
 ROOF PLAN**

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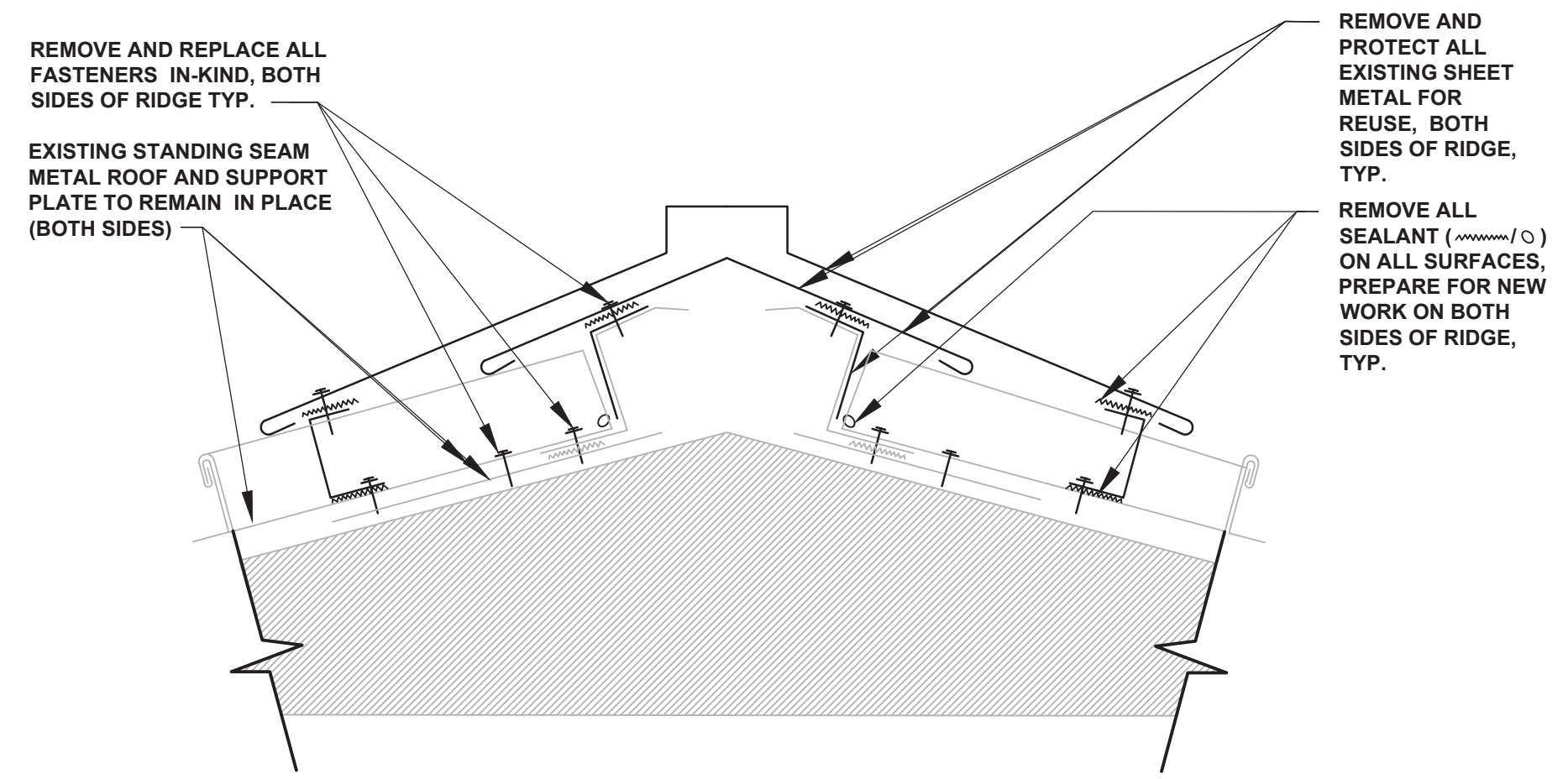
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1 TRAFFIC SERVICES BUILDING ROOF PLAN
 SCALE: 1/16" = 1'-0"

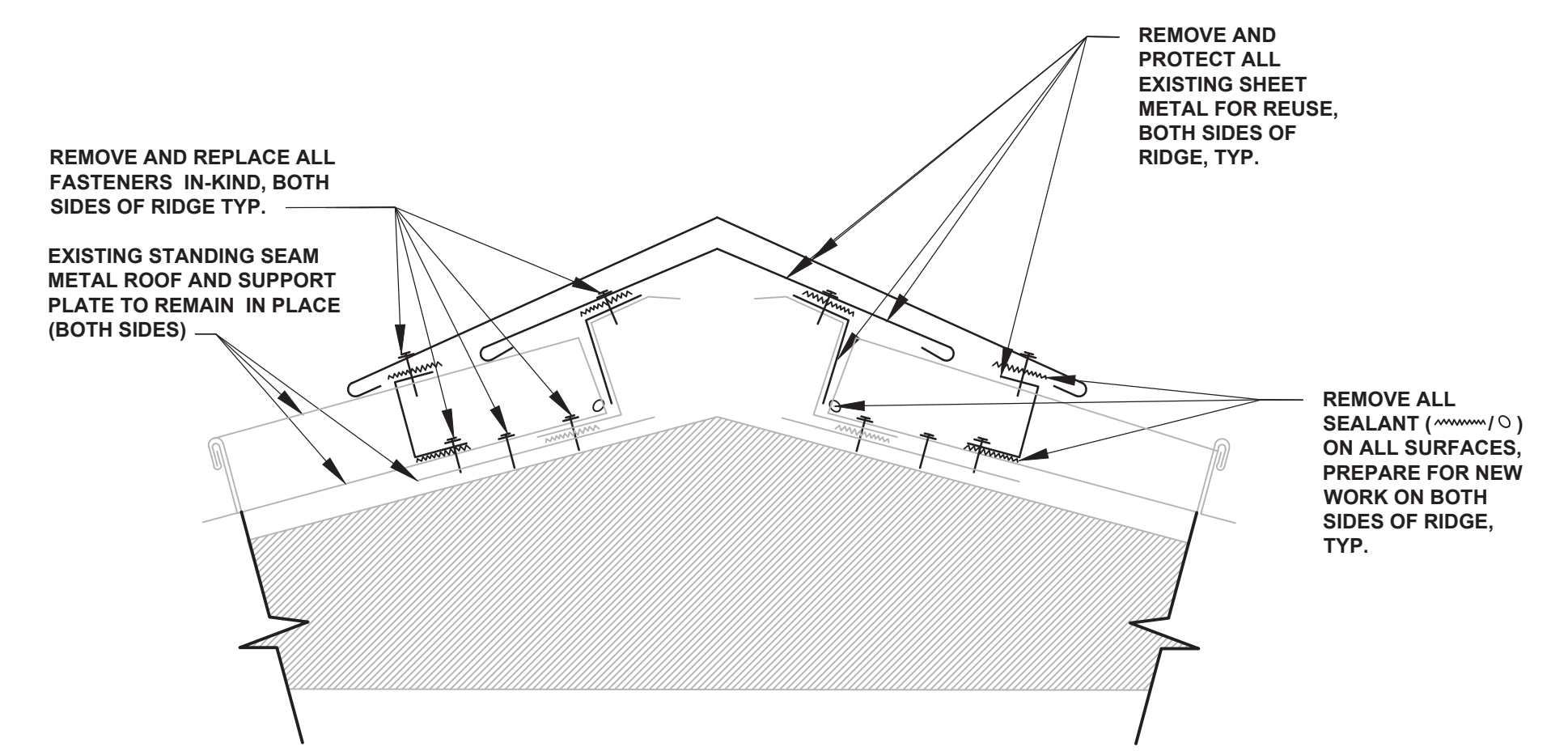
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CERTIFICATIONS

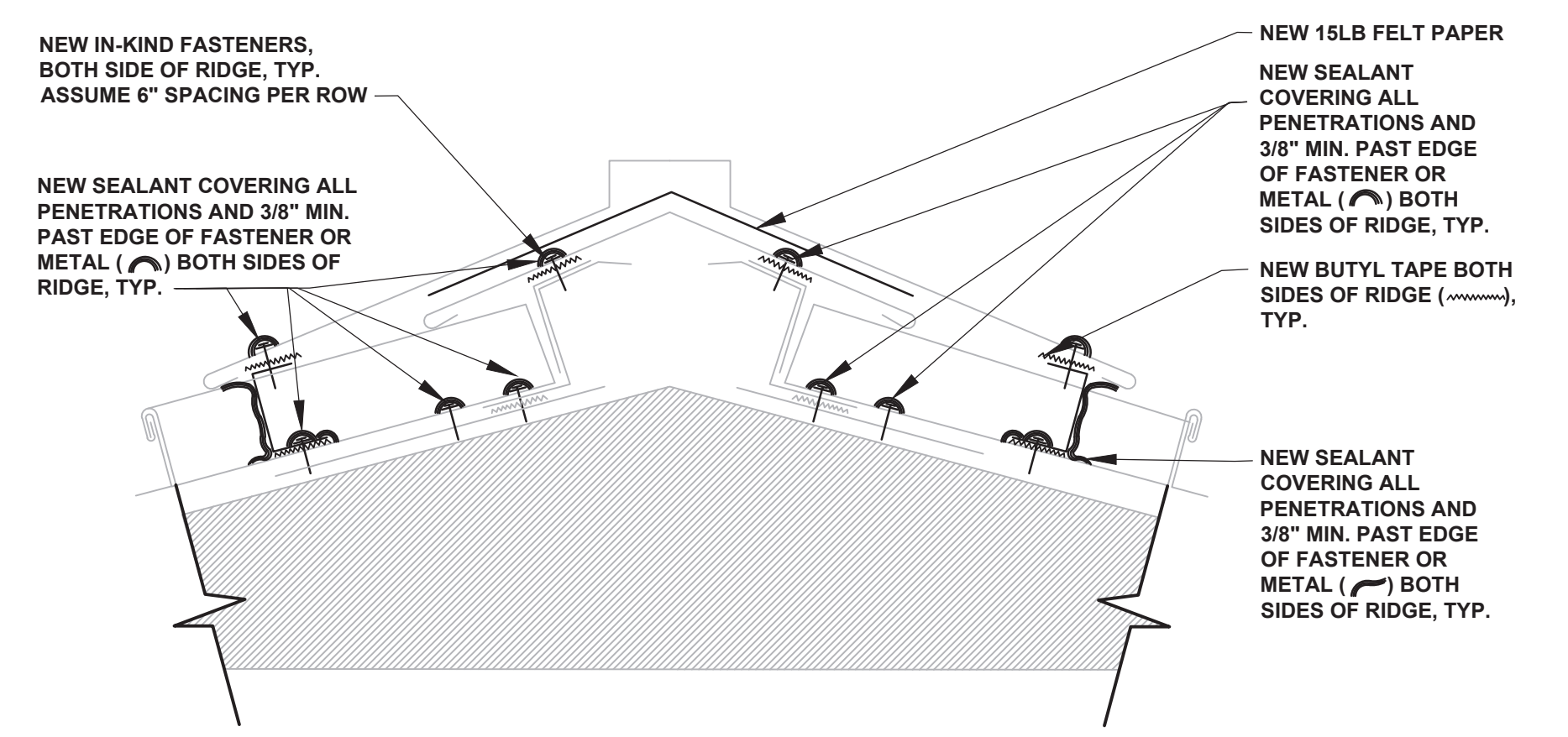
NO.	DATE	ISSUED BY
1	4/19/2022	JMM



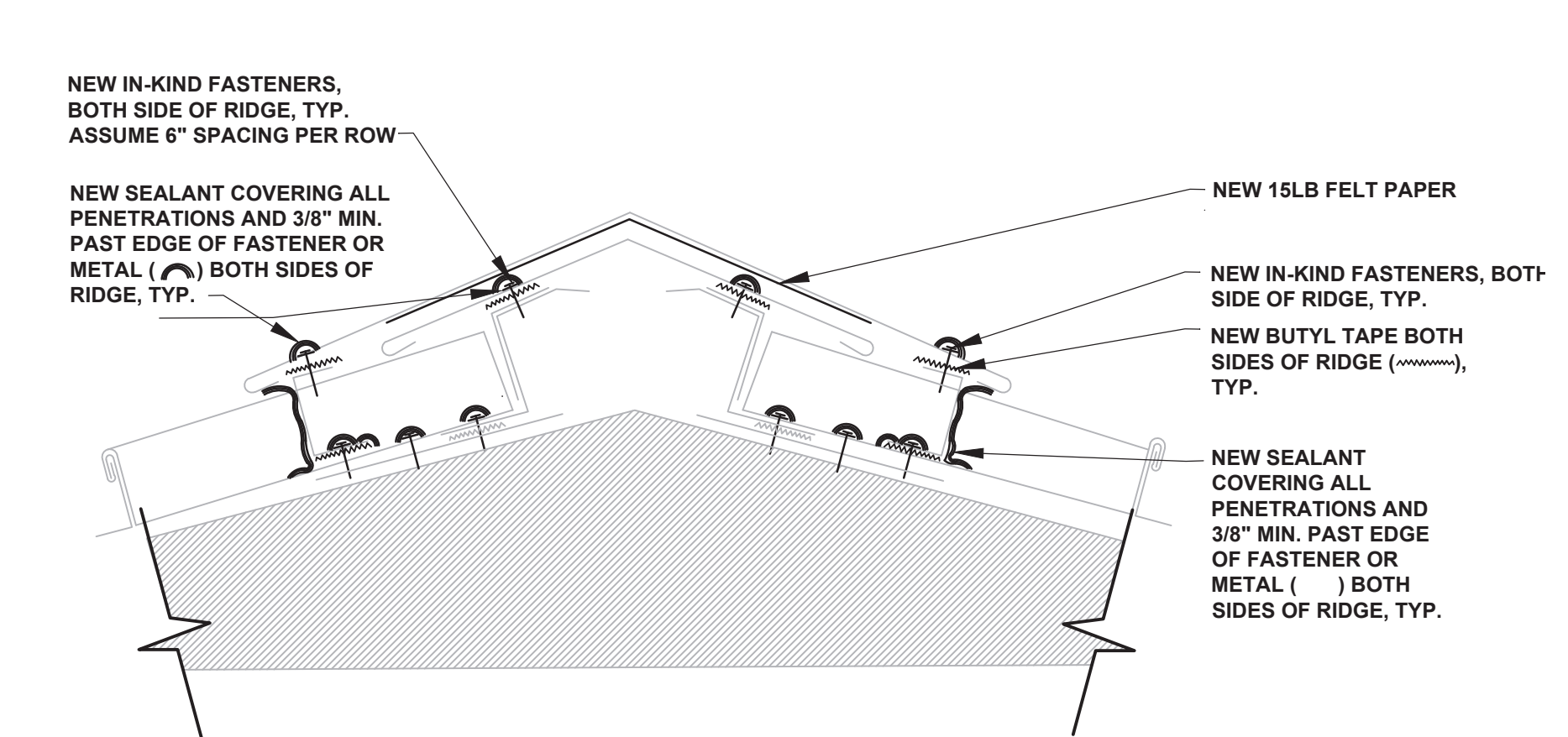
1A RIDGE SELECTIVE DEMOLITION DETAIL
SCALE: 3" = 1'-0"



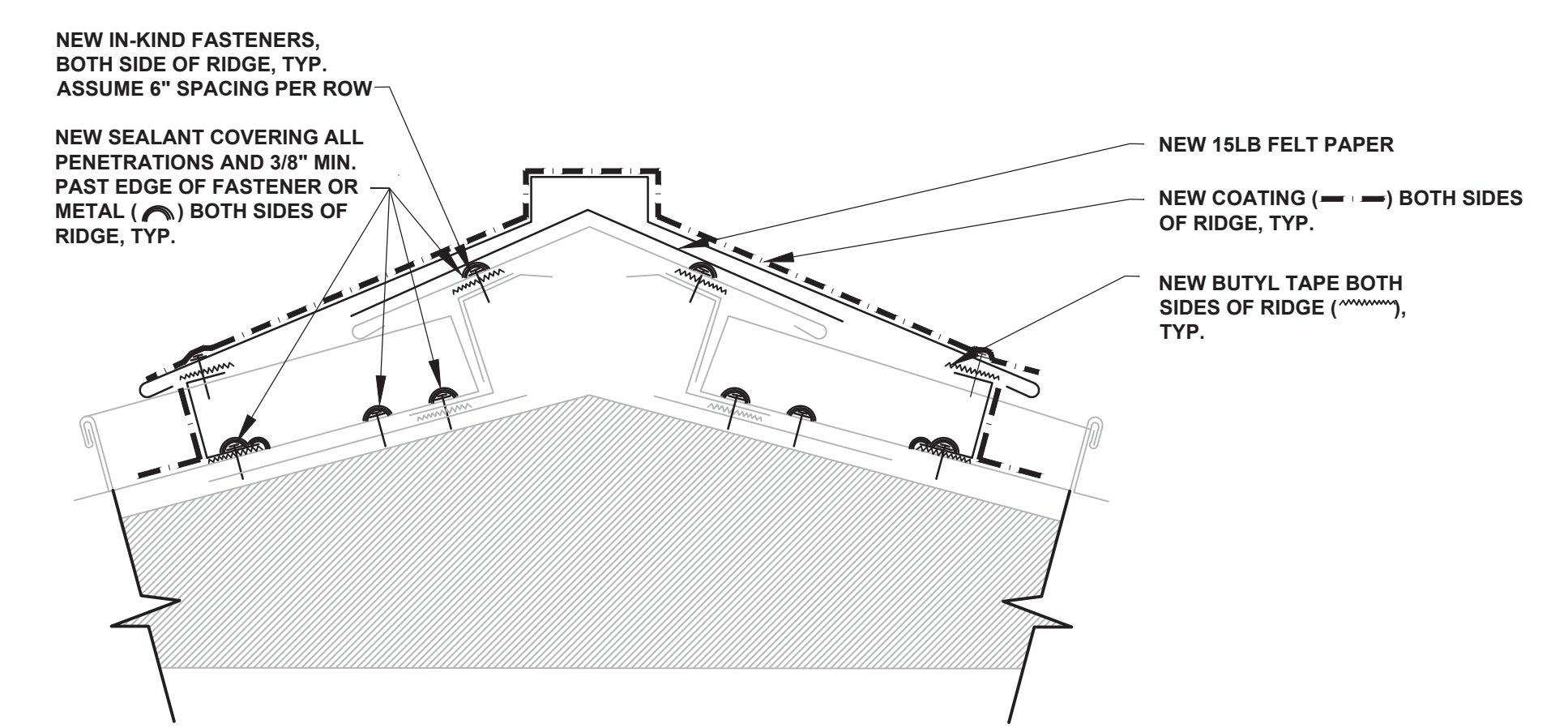
1B HIP SELECTIVE DEMOLITION DETAIL
SCALE: 3" = 1'-0"



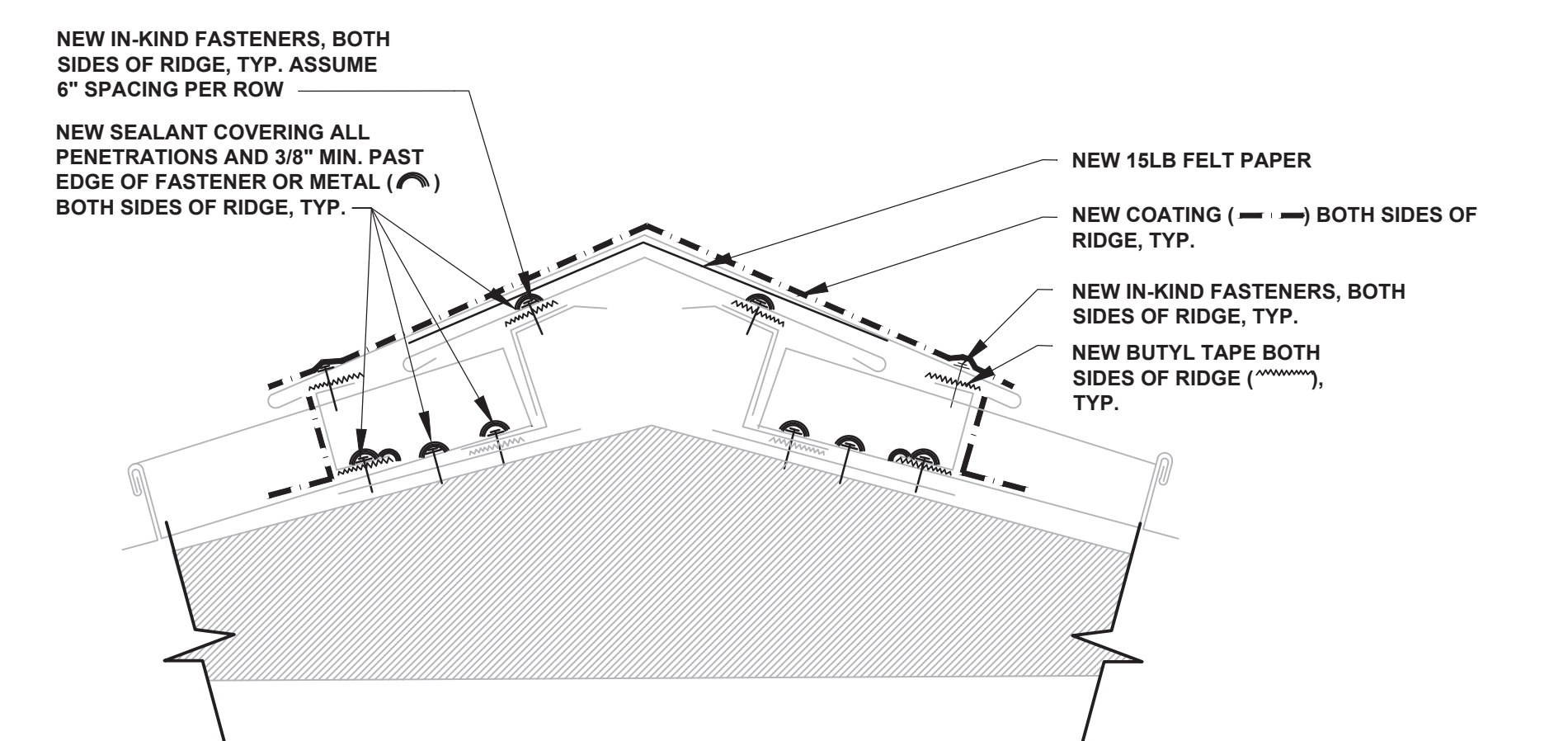
2A BASE BID ALTERNATE 2A RIDGE RENOVATION DETAIL
SCALE: 3" = 1'-0"



2B BASE BID ALTERNATE 2A HIP RENOVATION DETAIL
SCALE: 3" = 1'-0"



3A ALTERNATE 1A ALTERNATE 2B RIDGE RENOVATION DETAIL
SCALE: 3" = 1'-0"



3B ALTERNATE 1A ALTERNATE 2B HIP RENOVATION DETAIL
SCALE: 3" = 1'-0"

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