

ALL DRAWINGS, PREPARATIONS, AND COPIES THEREOF PLANNED BY RANDMO ARE AND WILL REMAIN THE PROPERTY OF RANDMO. THESE MATERIALS ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT AND NOT BE USED WITH ANY OTHER PROJECT. WITH THE EXCEPTION OF THE PROVISION OF A SET OF DRAWINGS FOR EACH PARTY TO THE CONTRACT, SUCH DOCUMENTS ARE TO BE RETURNED OR SURRENDERED TO RANDMO IMMEDIATELY UPON COMPLETION OF THE PROJECT. SUBMISSION OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS TO BE CONSIDERED AN INDICATION OF INTENDING COMMERCIAL COPYRIGHT OR OTHER RESERVED RIGHTS. COPYRIGHT IN RANDMO - ALL RIGHTS RESERVED.



ALL DRAWINGS, SPECIFICATIONS, AND NOTES HEREBY FORWARDED BY RAYMOND ARE AND SHALL REMAIN THE PROPERTY OF RAYMOND. THESE MATERIALS ARE TO BE USED ONLY WITHIN THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF RAYMOND. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THESE MATERIALS IS PROHIBITED AND WILL BE CONSIDERED A VIOLATION OF APPLICABLE LAWS. RAYMOND ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THESE MATERIALS. THE USER OF THESE MATERIALS SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND FOR OBTAINING NECESSARY INFORMATION FROM THE PROJECT ARCHITECT/ENGINEER. RAYMOND ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THESE MATERIALS. THE USER OF THESE MATERIALS SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND FOR OBTAINING NECESSARY INFORMATION FROM THE PROJECT ARCHITECT/ENGINEER.

SHEET INDEX					
NO.	TITLE	ISSUED			
		2023/03/03: REVIEW SET	2023/04/14: CONSTRUCTION DOCUMENTS		

GENERAL

G-000	COVER SHEET	●	●		
G-001	SHEET INDEX	●	●		
G-002	APPENDIX B	●	●		
G-003	LIFE SAFETY PLANS	●	●		
G-004	STAGING PLAN				

ARCHITECTURAL

A-001	ARCHITECTURAL GENERAL NOTES	●	●		
A-101	FLOOR PLANS	●	●		
A-102	FLOOR PLANS	●	●		
A-103	ATTIC FLOOR PLANS	●	●		
A-104	ENLARGED PLANS	●	●		
A-105	RENOVATION ROOF PLAN	●	●		
A-201	EAST ELEVATION - MASONRY RESTORATION	●	●		
A-202	NORTH ELEVATION - MASONRY RESTORATION	●	●		
A-203	WEST ELEVATION - MASONRY RESTORATION	●	●		
A-204	SOUTH ELEVATION - MASONRY RESTORATION	●	●		
A-205	PORTICO ELEVATIONS - MASONRY RESTORATION	●	●		
A-301E	ROOF TYPE 1 - EAST - SECTIONS	●	●		
A-301W	ROOF TYPE 1 - WEST - SECTIONS	●	●		
A-302N	ROOF TYPE 2 - NORTH - SECTIONS	●	●		
A-302S	ROOF TYPE 2 - SOUTH - SECTIONS	●	●		
A-303	ROOF TYPE 3 - SECTION	●	●		
A-501.1	ROOF TYPE 1 - TYPICAL DETAILS	●	●		
A-501.2	ROOF TYPE 1 - TYPICAL OVAL SKYLIGHT DETAILS	●	●		
A-501.3	ROOF TYPE 1 AND 2 - TYPICAL DETAILS	●	●		
A-501.4	ROOF TYPE 1 AND 2 - TYPICAL DETAILS	●	●		
A-502.1	ROOF TYPE 2A - TYPICAL DETAILS	●	●		
A-502.2	ROOF TYPE 2B - TYPICAL DETAILS	●	●		
A-503	ROOF TYPE 3 - TYPICAL DETAILS	●	●		
A-504	ROOF TYPE 4 - TYPICAL SECTIONS AND DETAILS	●	●		
A-510	ATTIC CATWALK AND PLATFORM DETAILS	●	●		
A-511	ATTIC LADDER DETAILS	●	●		

SHEET INDEX					
NO.	TITLE	ISSUED			
		2023/03/03: REVIEW SET	2023/04/14: CONSTRUCTION DOCUMENTS		

STRUCTURAL

S-001	GENERAL NOTES	●	●		
S-002	SPECIAL INSPECTIONS	●	●		
S-003	ROOF WIND ZONE PLAN	●	●		
S-101	CATWALK FRAMING PLAN SOUTH	●	●		
S-102	CATWALK FRAMING PLAN NORTH	●	●		
S-103	CATWALK FRAMING CONNECTION PLAN SOUTH	●	●		
S-104	CATWALK FRAMING CONNECTION PLAN NORTH	●	●		
S-105	ATTIC AND ROOF FRAMING PLAN	●	●		
S-501	DETAILS	●	●		
S-502	DETAILS	●	●		
S-503	DETAILS	●	●		
S-504	DETAILS	●	●		
S-505	DETAILS	●	●		
S-506	DETAILS	●	●		
S-507	DETAILS	●	●		
S-508	DETAILS	●	●		
S-509	DETAILS	●	●		
S-510	DETAILS	●	●		
S-511	DETAILS	●	●		

MECHANICAL

M-001	MECHANICAL LEGENDS & NOTES	●	●		
MD101	CRAWLSPACE MECHANICAL DEMOLITION PLAN	●	●		
MD111	FIRST FLOOR MECHANICAL DEMOLITION PLAN	●	●		
MD121	SECOND FLOOR MECHANICAL DEMOLITION PLAN	●	●		
MD131	THIRD FLOOR MECHANICAL DEMOLITION PLAN	●	●		
MD141	ATTIC MECHANICAL DEMOLITION PLAN	●	●		
MD151	ROOF MECHANICAL DEMOLITION PLAN	●	●		
M-101	CRAWLSPACE MECHANICAL PLAN	●	●		
M-111	FIRST FLOOR MECHANICAL PLAN	●	●		
M-121	SECOND FLOOR MECHANICAL PLAN	●	●		
M-131	THIRD FLOOR MECHANICAL PLAN	●	●		
M-141	ATTIC MECHANICAL PLAN	●	●		
M-151	ROOF MECHANICAL PLAN	●	●		
M-501	DETAILS	●	●		
M-502	DETAILS	●	●		
M-503	DETAILS	●	●		
M-504	DETAILS		●		

SHEET INDEX					
NO.	TITLE	ISSUED			
		2023/03/03: REVIEW SET	2023/04/14: CONSTRUCTION DOCUMENTS		

MECHANICAL

M-601	SCHEDULES	●	●		
M-602	SCHEDULES	●	●		
M-701	MECHANICAL CONTROLS	●	●		
M-702	MECHANICAL CONTROLS	●	●		
M-703	MECHANICAL CONTROLS	●	●		
M-901	ISOMETRICS PERSPECTIVES	●	●		
M-902	ISOMETRICS PERSPECTIVES		●		
M-903	ISOMETRICS PERSPECTIVES		●		
M-904	ISOMETRICS PERSPECTIVES		●		
M-905	ISOMETRICS PERSPECTIVES		●		

ELECTRICAL

E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES	●	●		
ED101	UNDERGROUND ELECTRICAL DEMOLITION PLAN	●	●		
ED111	FIRST FLOOR ELECTRICAL DEMOLITION PLAN	●	●		
ED121	SECOND FLOOR ELECTRICAL DEMOLITION PLAN	●	●		
ED131	THIRD FLOOR ELECTRICAL DEMOLITION PLAN	●	●		
ED141	ATTIC ELECTRICAL DEMOLITION PLAN	●	●		
ED151	ROOF ELECTRICAL DEMOLITION PLAN	●	●		
E-101	UNDERGROUND ELECTRICAL PLAN	●	●		
E-112	FIRST FLOOR POWER PLAN	●	●		
E-122	SECOND FLOOR POWER PLAN	●	●		
E-132	THIRD FLOOR POWER PLAN		●		
E-142	ATTIC POWER PLAN	●	●		
E-152	ROOF POWER PLAN	●	●		
E-501	DETAILS	●	●		
E-601	SCHEDULES AND DIAGRAMS	●	●		



RAYMOND  
316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7988  
COAF C4261, LICENSE 53143



MUTER CONSTRUCTION  
111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 28797  
919.404.8330



Dewberry  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.891.9539



SPEWEIK  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.656.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING  
1 EAST EDITION STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SCO#:  
23-26138-01A

DESIGNED BY: JMM  
SENIOR REVIEW: JW  
DRAWN BY: JMM

SHEET TITLE:  
SHEET INDEX

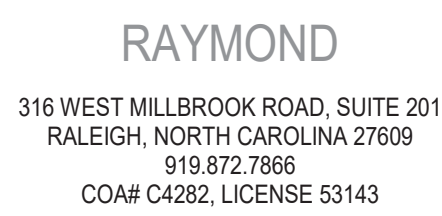
SHEET NO. PROJ. NO.  
NO. DATE DESCRIPTION BY  
RAL1188.001

G-001









111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 25797  
919.404.8330

**Dewberry**  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9339

**SPEWEIK**  
Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING  
4 EAST EDENTON STREET

EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

ISSUE:		
DATE	DESCRIPTION	BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

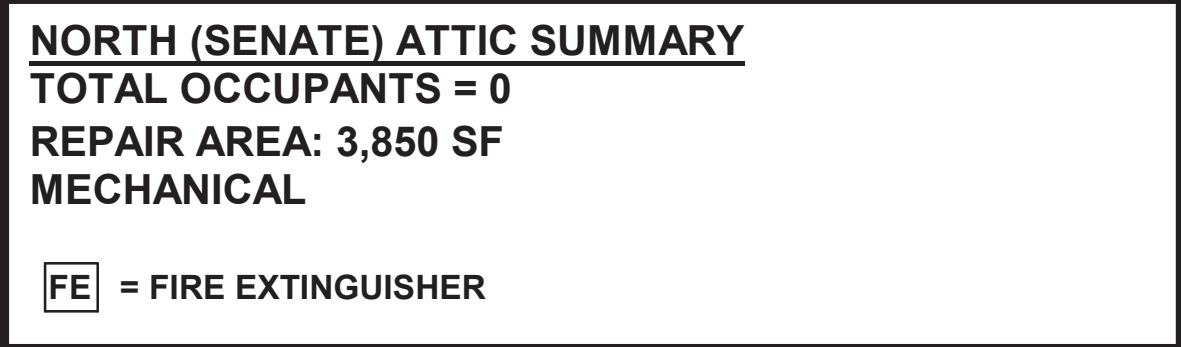
SCO#:  
23-26138-01A

DESIGNED BY: JMM  
FOR REVIEW: JW  
OWN BY: JMM

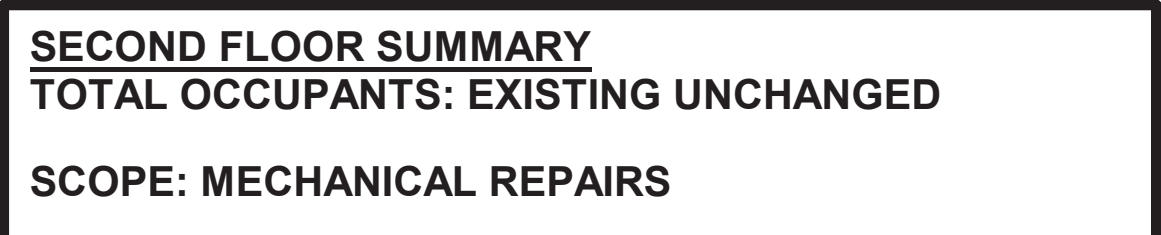
## THE SAFETY PLANS

ET NO. PROJ. NO.  
RAL1188.001

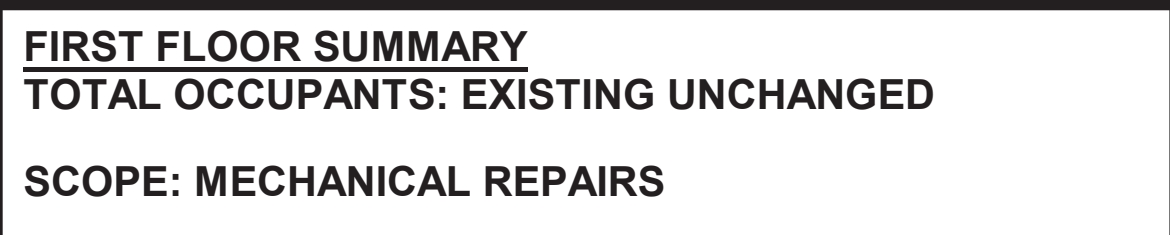
G-003



4 ATTIC PLAN - LIFE SAFETY  
3/32" = 1'-0"



**THIRD FLOOR PLAN - LIFE SAFETY**



**FIRST FLOOR PLAN - LIFE SAFETY**



[illegible][illegible]

RAYMOND  
CIVIL RIGHTS



143

10

ET  
A 257E 410  
A 2760

## III

ants,

AY



1 EAST EDENTON STREET

1 EAST EDENTON STREET

1 EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

ON

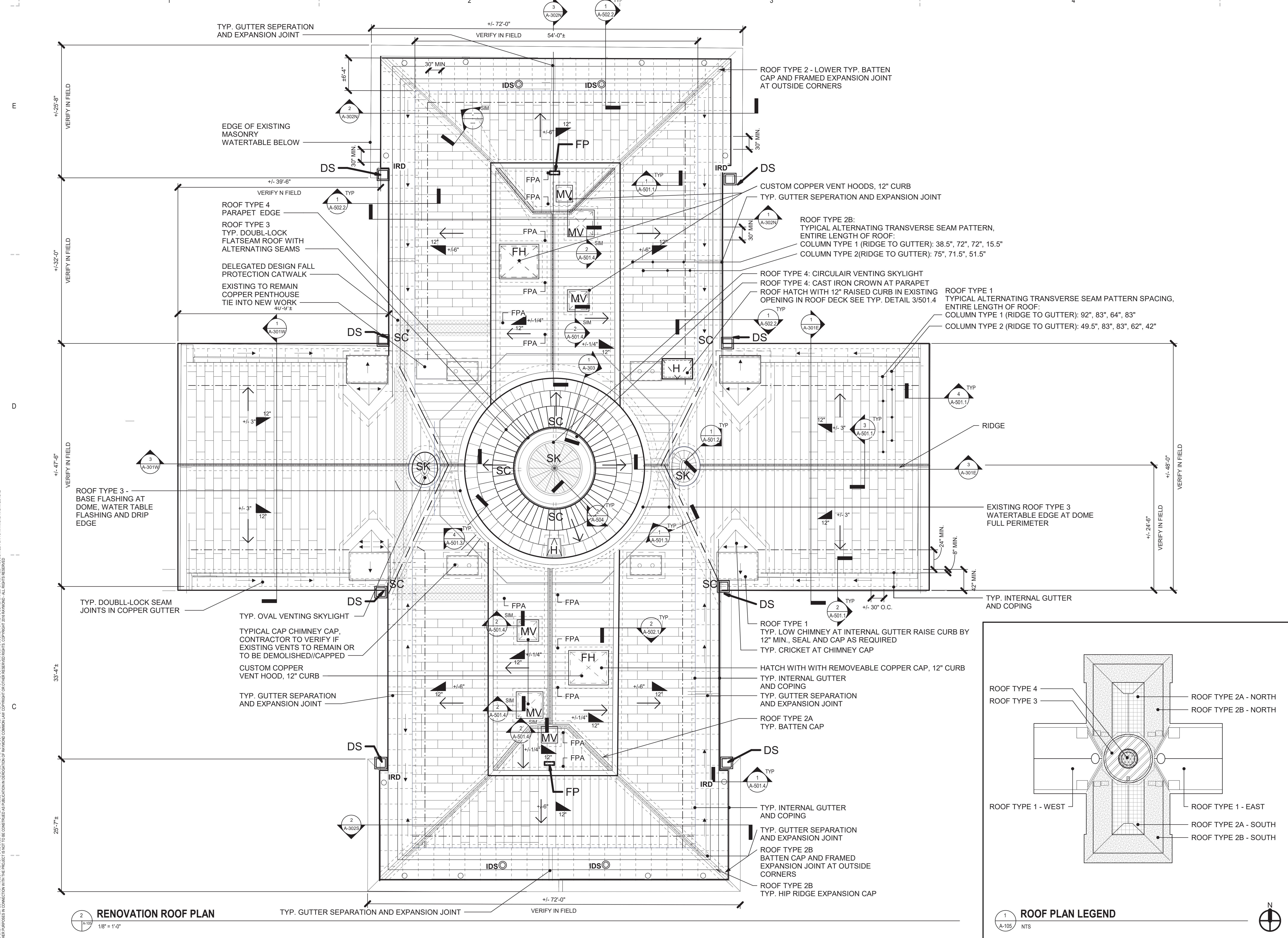
ON

3

AL  
ES

RA





### ROOF PLAN GENERAL NOTES:

**RG-1** THE PROGRESS ROOF PLAN IS IN DEVELOPMENT, REFER TO ROOF INVESTIGATION SCOPE OUTLINE FOR ENTIRE SCOPE OF WORK.

**RG-2** SEE STRUCTURAL ENGINEERING AND MEMBRANE MANUFACTURER REQUIREMENTS FOR WIND UPLIFT AND COMPONENTS AND CLADDING PERFORMANCE DESIGN REQUIREMENTS. FASTENERS, NEW STRUCTURAL FRAMING SCOPE AND REQUIREMENTS, REPAIRS AND REPLACEMENTS TO EXISTING WOOD DECK AND FRAMING AND OTHER RELATED ASPECTS.

**RG-3** EXISTING ROOF ELEMENTS TO REMAIN AND BE PROTECTED AND TIED INTO NEW WORK AS REQUIRED UNLESS OTHERWISE NOTED. RAISE EXISTING CURBS WITH 8" NEW BLOCKING, REPAIR EXISTING CONDITION AS REQUIRED MODIFY AND MAY BE NEEDED.

**RG-4** MECHANICAL EQUIPMENT AND ALL PENETRATIONS ARE NOT SHOWN AT THIS TIME.

**RG-5** NEW HATCH OPENINGS AT ROOF TYPE 2A (FLAT ROOF) NORTH AND SOUTH ARE NOT SHOWN. ASSUME AT LEAST A 12'-0" X 16'-0" REINFORCED OPENING. SEE STRUCTURAL DRAWING AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

**RG-6** ALL COPPER ROOF CLADDING, FLASHING IS TO BE REPLACED IN ITS ENTIRETY UNLESS OTHERWISE NOTED.

**RG-7** COPPER STANDING SEAMS ARE SHOWN AS THEY ARE IN THEIR EXISTING CONDITIONS. ASSUME ALL NEW STANDING SEAMS ARE TO BE UNIFORMLY SPACED 20" MAXIMUM BETWEEN SEAMS.

**RG-8** CUT AND REPOINT ALL CONCEALED MASONRY JOINTS BELOW EXISTING ROOF SYSTEM.

### RMR EXISTING MASONRY REPAIR NOTES:

**RMR-1** CUT AND REPOINT EXISTING EXPOSED AND CONCEALED MASONRY JOINTS, DEPTH TO BE 2.5 TIMES THE WIDTH OF THE JOINT BUT NOT LESS THAN 5/8". SEE ARCHITECTURAL ELEVATIONS FOR MASONRY REPAIR SCOPE NOT INDICATED IN THE ROOF REPAIR AND REPLACEMENT DESIGN.

### EW EXISTING/ORIGINAL TAG WOOD ROOF DECK AND FRAMING REPAIR NOTES:

**EW-1** PREVENT DAMAGE TO THE EXISTING ASSEMBLIES TO REMAIN. ALL PLYWOOD REQUIRED TO BE REMOVED AND REPLACED TO FACILITATE WORK IS REQUIRED. TO BE REMOVED BY THE ENTIRE INTACT SHEET INSTALLED AT THOSE LOCATIONS, NOT CUT. PLYWOOD TO BE REPLACED IN-KIND TO BE FLUSH WITH ADJACENT SURFACES.

**EW-2** SEE STRUCTURAL DRAWINGS FOR DECK REPAIR AND REPLACEMENT DETAILS. SEE TYPICAL FOR UNDERLAYMENT AND LAP DETAILS FOR MORE INFORMATION.

### WD WOOD DECK AND FRAMING REPLACEMENT NOTES:

**WD-1** FIT PLYWOOD AT ALL PENETRATIONS AND PROJECTIONS. PLYWOOD SHALL BE SECURED WITH JOINTS NO GREATER THAN 1/4". FILL ALL JOINTS AND GAPS WITH SEALANT PER MANUFACTURER REQUIREMENTS. MEMBRANE TO BE FULLY SUPPORTED. STRIP ALL PLYWOOD JOINTS WITH FLEECE REINFORCEMENT PER MANUFACTURER REQUIREMENTS.

### RM ROOF WATERPROOFING NOTES (LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM)

**RM-1** SIKA ROOF PRO SYSTEM

**RM-2** PRIME AND PREPARE METAL FLASHING PER MANUFACTURER REQUIREMENTS.

### RS ROOF SUBSTRATE REPAIR AND REPLACEMENT:

**RS-2** RED ROSIN PAPER IS TO BE INSTALLED AS A SHEET SEPARATION BELOW ALL COPPER SHEET METAL AND BETWEEN NEW AND EXISTING ASSEMBLIES WHICH INCLUDES: WOOD SUBSTRATES, MASONRY, HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT AND OTHER WATERPROOFING MEMBRANES UNLESS OTHERWISE NOTED.

**RS-3** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED AT ALL ROOF AREAS WITH EXCEPTION TO THE AREAS TO RECEIVE LIQUID APPLIED. RED ROSIN PAPER IS TO BE INSTALLED AS A SEPARATION SHEET BETWEEN SELF-ADHERED BITUMINOUS UNDERLAYMENT AND COPPER.

### C COPPER NOTES (SEE STRUCTURAL DRAWINGS FOR MORE REQUIREMENTS):

**C-1** COPPER IS TO BE 20 oz

**C-2** STANDING SEAMS ARE TO BE DOUBLE-LOCK 1" TALL WITH CONTINUOUS BUTYL SEALANT WITHIN THE SEAM. SPACING IS TO BE 20" MIN. BETWEEN STANDING SEAMS UNLESS OTHERWISE NOTED.

**C-3** COPPER CLEATS ARE TO BE 2" WIDE AND INSTALLED AT A SPACING 12" MIN., UNLESS OTHERWISE NOTED.

**C-4** EXPANSION JOINT SPACING: VERTICAL: EVERY 15'-0" MIN. HORIZONTAL: EVERY 15'-0" MIN.

### ROOF PLAN LEGEND:

EDGE OF HIGH-TEMPERATURE SELF-ADHERED UNDERLAYMENT	TRANSVERSE SEAM COPPER ROOF SYSTEM
EDGE OF LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM	FOLD SEAM AS REQUIRED
ROOF SLOPE (U.O.N.)	DOUBLE-LOCK STANDING SEAM WITH BUTYL SEALANT
TYPICAL 1/4"/12" GUTTER DOWNSLOPE DIRECTION	COPPER FLASHING SEAM EDGE BELOW ROOF SYSTEM
ROOF DOWNSLOPE DIRECTION OF STRUCTURALLY SLOPED ROOF	FPA FALL PROTECTION ANCHOR, DELEGATED DESIGN BY OTHERS
EXISTING SCUPPER	EXISTING VENT TO BE CAPPED IF NOT IN USE BELOW NEW COPPER (VIF)
INTERNAL ROOF DRAIN	FALL PROTECTION CATWALK SYSTEM, DELEGATED DESIGN BY OTHERS
NEW COPPER ACCESS HATCH AT EXISTING OPENING, 12" CURB	EXISTING INTERNAL ROOF DRAIN TO DOWNSPOUT
MECHANICAL VENT, 12" CURB	EXISTING DOWNSPOUT TO REMAIN (VIF WORKING CONDITION AND REPAIR AS REQUIRED)
NEW FLAT ROOF ACCESS OPENING/ HATCH, 12" CURB	SKYLIGHT SEE SHEETS A-504 AND A-501.2
	FP EXISTING FLAG POLE. SEE STRCUTRAL SHEETS

### RENOVATION ROOF REPLACEMENT ASSEMBLIES:

**NOTE 1:** ROOF REPLACEMENT DESIGN IS IN PROGRESS, ALL ASSEMBLIES LISTED BELOW ARE THE MOST TYPICAL ASSEMBLIES IN THE ROOF REPLACEMENT SCOPE, NOT ALL ASSEMBLY INFORMATION IS LISTED FOR SPECIFIC LOCATIONS AND REPAIR SCOPE AT THIS TIME. SEE ROOF DETAILS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.

**NOTE 2:** ASSEMBLY LAYERS LISTED BELOW ARE FROM THE FINISH MATERIAL TO DECK.

**NOTE 3:** SEE STRUCTURAL DRAWINGS FOR COMPONENT CLADDING, WIND UP-LIFT DESIGN AND MORE INFORMATION.

#### ALL ROOFS(UNLESS OTHERWISE NOTED):

**PENETRATIONS AT FIELD CONDITIONS:**

- LAYER 1:** COPPER FLASHING, DOUBLE-LOCK FLAT SEAM WITH BUTYL WITHIN THE SEAM AT ALL CONNECTIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT IS TO BE CONTINUOUSLY, ALL ROOFS.
- LAYER 4:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 5:** EXISTING TONGUE AN GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

#### ROOF TYPE 1 - EAST AND WEST:

**FIELD CONDITION:**

- LAYER 1:** COPPER DOUBLE-LOCK STANDING SEAM WITH TRANSVERSE SEAM. BUTYL TO BE INSTALLED IN STANDING SEAMS AND PAN LOCK TERMINATIONS. STANDING SEAM SPACING A MAXIMUM OF 20" O.C. SEE ROOF PLAN FOR TRANSVERSE SEAM SPACING. EXPANSION JOINTS ARE TO BE INSTALLED EVERY 15'-0" IN THE HORIZONTAL AND VERTICAL DIRECTIONS.
- LAYER 2:** RED ROSIN PAPER OVER CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 3:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 4:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**VALLEYS:**

- LAYER 1:** COPPER VALLEY FLASHING.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** EXISTING TO REMAIN OR NEW 1/2" - 3/4" PLYWOOD DECK REPLACEMENT(SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 5:** EXISTING TONGUE AN GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**TERMINATIONS:**

- LAYER 1:** REGLET COPPER BASE FLASHING, 6-12" VERTICAL BASE WITH 6-8" TYPICAL CONCEALED APRON FLASHING WITH CONTINUOUS STAINLESS STEEL CLEAT. COUNTER FLASHING VARIES FROM 4-6" OVERLAPS OF BASE FLASHING. ALL REGLET ARE TO BE INSTALLED IN EXISTING MASONRY MORTAR JOINTS BETWEEN MASONRY UNITS AND ABOVE ANY PREVIOUSLY INSTALLED REGLET JOINTS CUT INTO THE FACE OF THE MASONRY, CUT, PATCH AND REPAIR MASONRY AS REQUIRED AT ALL PREVIOUS AND RELOCATED REGLET INSTALLATION LOCATIONS. SEE MASONRY REPAIR DETAILS AND SPECIFICATIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** EXISTING TO REMAIN OR NEW 1/2" - 3/4" PLYWOOD DECK. REPLACEMENT(SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 5:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

#### INTERNAL GUTTER:

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL GUTTER WITH BUTYL. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS. SLOPE TO MATCH EXISTING AND BE CONTINUOUSLY POSITIVE TO DRAIN.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM WITH TRAFFIC COATING.
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS, PREPPED, PRIMED AND DETAILED AT JOINTS AND MATERIAL TRANSITIONS AS REQUIRED BY WATERPROOFING MANUFACTURER.

#### OVAL SKYLIGHT:

- RESTORE EXISTING VENTING COPPER SKYLIGHT. SKYLIGHT TO BE RESTORED WITH NEW GLAZING TO MATCH EXISTING THICKNESS AND NEW COPPER SILL FLASHINGS. NEW COPPER VENT TO BE INSTALLED TO MATCH EXISTING.
- INTERIOR REPAIRS AND PAINTING AS REQUIRED

#### ASSEMBLY AT SKYLIGHT CURB:

- LAYER 1:** COPPER DOUBLE- LOCK FLAT SEAM WITH BUTYL WITHIN THE SEAM AT ALL CONNECTIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT
- LAYER 4:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).

#### ROOF TYPE 2A (FLAT ROOF)- NORTH AND SOUTH:

**FIELD CONDITION:**

- LAYER 1:** COPPER DOUBLE-LOCK FLAT SEAM ROOF WITH INTEGRAL HORIZONTAL CRUSHED HEM REVEALS (NO JOINT). SEAM SPACING IS A MAXIMUM OF 20" O.C. STAINLESS STEEL CLETS AS DETAILED. VENTED/WEEP TERMINATIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 6:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**TERMINATIONS:**

- LAYER 1:** COPPER FLASHING, DOUBLE-LOCK FLAT SEAM WITH BUTYL WITHIN THE SEAM AT ALL CONNECTIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.

#### BRIDGING SUBSTRATE SURFACES:

- LAYER 4:** RED ROSIN PAPER
- LAYER 5:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 6:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**PENETRATIONS:**

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL BOX GUTTER. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** EXISTING WOOD SUBSTRATE AND MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

#### ROOF TYPE 2B NORTH AND (STEEP SLOPE):

**FIELD CONDITION:**

- LAYER 1:** DOUBLE-LOCK STANDING SEAM WITH TRANSVERSE SEAM METAL ROOF WITH BUTYL WITHIN THE SEAM AT ALL CONNECTIONS. SEE PLAN FOR SEAM SPACING.
- LAYER 2:** RED ROSIN PAPER OVER CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 3:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 4:** EXISTING OR NEW (REPLACED) TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**TERMINATIONS:**

- LAYER 1:** COPPER FLASHING, DOUBLE-LOCK FLAT SEAM WITH BUTYL WITHIN THE SEAM AT ALL CONNECTIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.

#### INTERNAL GUTTER:

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL BOX GUTTER. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS.
- LAYER 2:** SLOPE TO MATCH EXISTING AND BE CONTINUOUSLY POSITIVE TO DRAIN.
- LAYER 3:** RED ROSIN PAPER FELT PAPER
- LAYER 4:** LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
- LAYER 5:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 6:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

#### INTERNAL DRAINS (IRD), SCUPPERS(SC) AND DOWNSPOUTS (DS)

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL GUTTER WITH BUTYL. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
- LAYER 4:** MANUFACTURERED REQUIRED PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

#### BRIDGING SUBSTRATE SURFACES:

- LAYER 4:** RED ROSIN PAPER
- LAYER 5:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 6:** EXISTING NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 7:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

#### ROOF TYPE 3 (DOME):

**FIELD CONDITION:**

- LAYER 1:** COPPER FLAT SEAM DOUBLE-LOCK ROOF WITH BUTYL IN VERTICAL SEAMS. SEE PLAN FOR SEAM SPACING.
- LAYER 2:** RED ROSIN PAPER OVER #30LB FELT PAPER
- LAYER 3:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 4:** EXISTING OR NEW (REPLACED) TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**TERMINATIONS:**

- LAYER 1:** REGLET COPPER BASE FLASHING, 8" VERTICAL BASE WITH 8" TYPICAL CONCEALED APRON FLASHING WITH CONTINUOUS STAINLESS STEEL CLEAT.
- LAYER 2:** RED ROSIN PAPER FELT PAPER.
- LAYER 3:** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS, ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION. RED ROSIN PAPER IS TO BE INSTALLED AS A SEPARATION SHEET BETWEEN SELF-ADHERED BITUMINOUS UNDERLAYMENT AND COPPER FLASHING.

#### BRIDGING SUBSTRATE SURFACES:

- LAYER 1:** RED ROSIN PAPER
- LAYER 2:** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS, ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION.
- LAYER 3:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 4:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

#### ROOF TYPE 4 (CROWN):

**FIELD CONDITION, INTERNAL PARAPET WALL, ROOF AND GUTTER SYSTEM:**

- LAYER 1:** COPPER DOUBLE-LOCK FLAT SEAM AT COPING AND AS REQUIRED AT SKYLIGHT.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

#### BRIDGING SUBSTRATE SURFACES:

- LAYER 4:** RED ROSIN PAPER
- LAYER 5:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 6:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).
- LAYER 7:** EXISTING TONGUE AND GROOVE DECK (1-3/4" - 2.25" THICK, VARYING WIDTHS FROM 3" TO 6").

**ROUND SKYLIGHT:**

- RESTORE EXISTING VENTING COPPER SKYLIGHT. SKYLIGHT TO BE RESTORED WITH NEW GLAZING TO MATCH EXISTING THICKNESS AND NEW COPPER SILL FLASHINGS. NEW COPPER VENT TO BE INSTALLED TO MATCH EXISTING.
- INTERIOR REPAIRS AND PAINTING AS REQUIRED.

#### ASSEMBLY AT SKYLIGHT CURB:

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL BOX GUTTER. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.
- LAYER 6:** NEW OR EXISTING 1/2" - 3/4" PLYWOOD DECK (SEE STRUCTURAL PLANS AND ROOF REPLACEMENT INVESTIGATION SCOPE REPORT FOR LOCATIONS).

#### INTERNAL ROOF DRAINS (IRD), SCUPPERS(SC) AND DOWNSPOUTS (DS)

- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL BOX GUTTER. SEE PLAN AND SECTIONS FOR SPACING AND DIMENSIONS.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** CONTINUOUSLY INSTALLED HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT.
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING WOOD SUBSTRATE AND MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

#### CAST IRON CROWN ON PARAPET:

- CROWN TO REMAIN IN-PLACE. CONTRACTOR SHALL CAREFULLY REMOVE EXISTING WATERPROOFING TO EXPOSE CROWN ATTACHMENT.
- NOTIFY DESIGNER WHEN EXPOSED AND READY FOR EXAMINATION.
- LAYER 1:** COPPER DOUBLE LOCK FLAT SEAM INTERNAL COPING CAP.
- LAYER 2:** RED ROSIN PAPER
- LAYER 3:** LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
- LAYER 4:** MANUFACTURER'S PREP AND SUBSTRATE DETAIL REQUIREMENTS.
- LAYER 5:** EXISTING MASONRY WITH MORTAR JOINT REPAIRS PREPPED AND PRIMED AS REQUIRED.

RAYMOND  
316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7986  
COAF C2001, LICENSE 53143

MUTER CONSTRUCTION  
111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.8330

Dewberry  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.891.9539

SPEWEIK  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.656.7449

STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA STATE CAPITOL BUILDING

1 EAST EDITION STREET  
RALEIGH, NORTH CAROLINA 27601

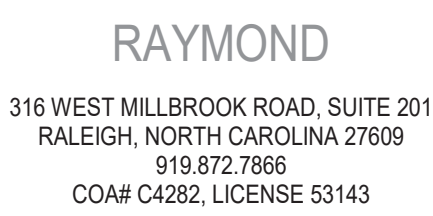
DESIGNED BY:	G/C
SENIOR REVIEW:	J/W
DRAWN BY:	G/C

SHEET TITLE:  
**RENOVATION ROOF PLAN**

SHEET NO.	PROJ. NO. RAL1188.001
-----------	--------------------------

**A-105**

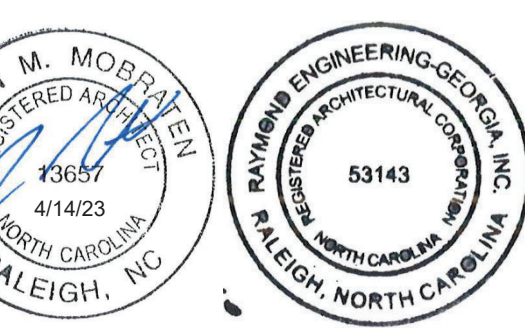




111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 25797  
919.404.8330

**Dewberry**  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9539

**SPEWEIK**  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449



# RESTORATION OF THE NORTH CAROLINA STATE CAPITOL BUILDING

1 EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

ISSUE:		
DATE	DESCRIPTION	BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

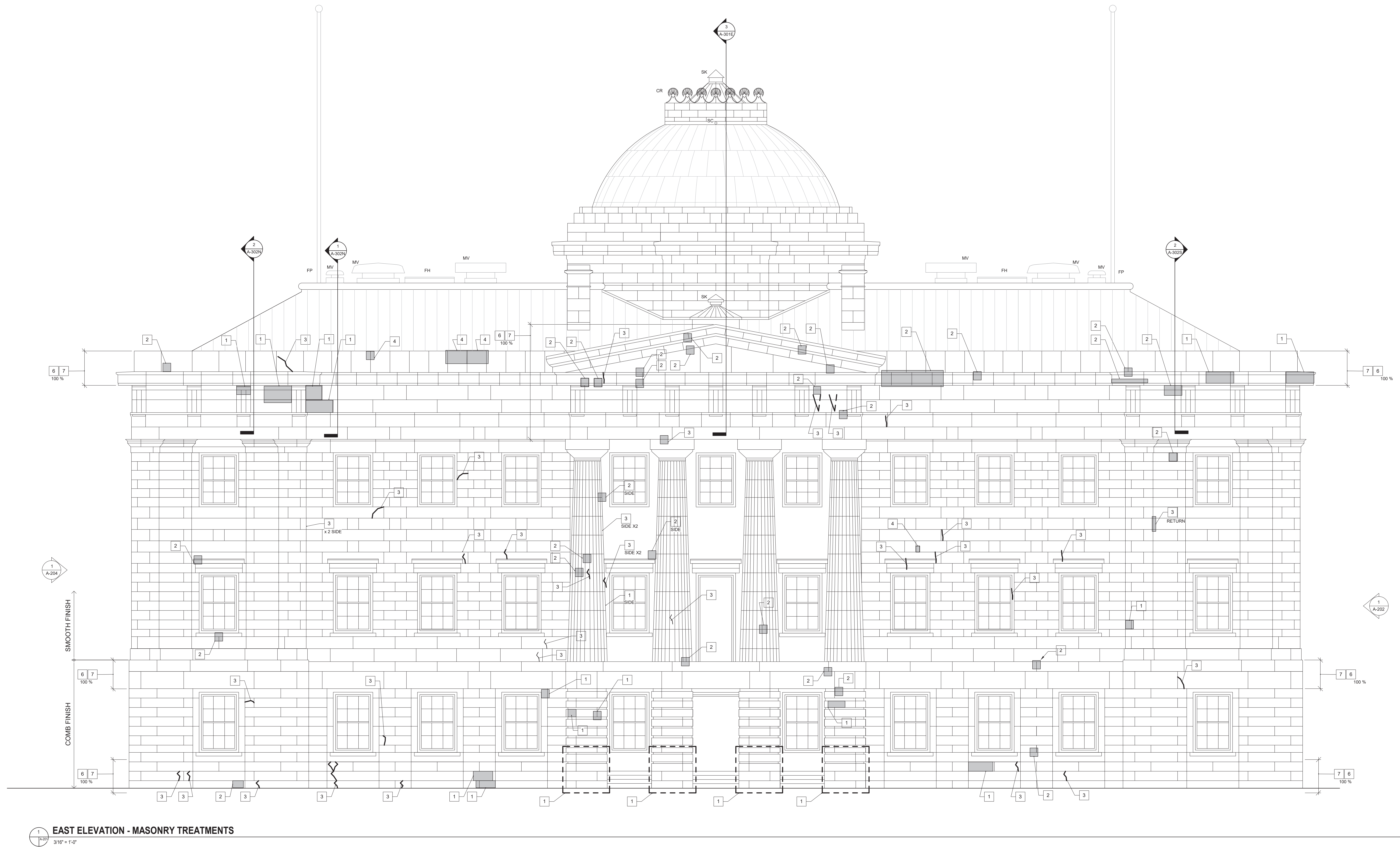
SCO#:  
23-26138-01A

NED BY: JMM  
 R REVIEW: JW  
 N BY: JMM

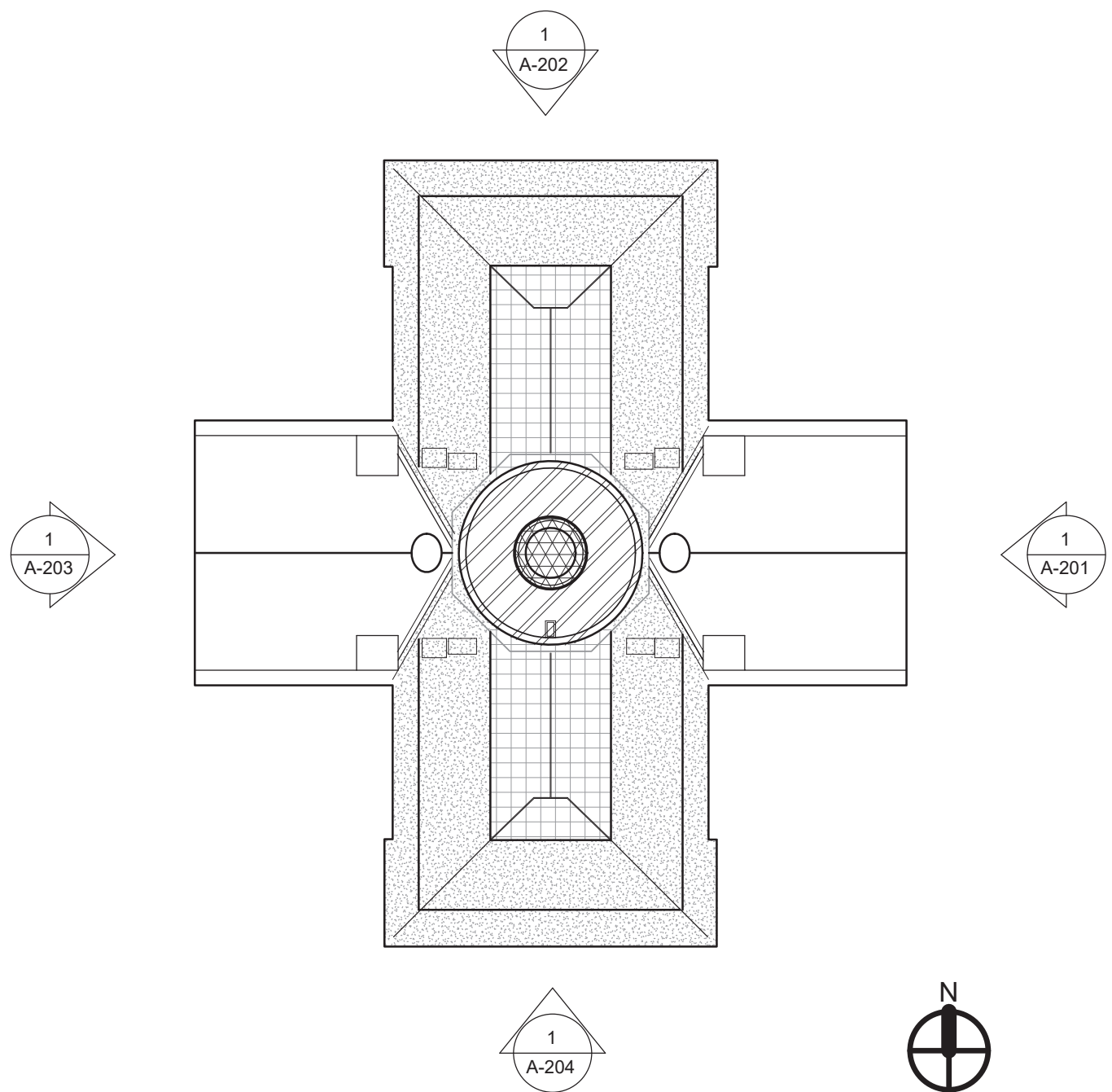
# ST ELEVATION - SONRY STORATION

PROJECT NO.	PROJ. NO.
	RA1188.001

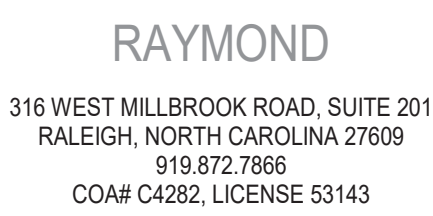
A-201



MASONRY KEYNOTES		MASONRY TREATMENT REQUIREMENTS		MASONRY AND EXTERIOR GENERAL NOTES			
1	REDRESS STONE INSITU - SEE MASONRY TREATMENT REQUIREMENT 1	<p><b>1. REDRESS INSITU</b> - SCALE OFF ALL LOOSE PIECES OF ORIGINAL STONE FROM MASONRY INTENDED TO STAY IN PLACE, INCLUDING SURFACE MATERIALS IN POWDER OR FLAKE FORM AND DETACHMENT OF PLANAR ELEMENTS, SPALLS, AND CHIPS. MASONRY CONTRACTOR SHALL SOUND FACES TO DETERMINE DELAMINATED PIECES THAT MAY NOT BE IMMEDIATELY VISIBLE.</p> <p><b>2. SUBSTITUTE STONE REPAIR</b> - REMOVE ALL PREVIOUSLY APPLIED PATCHING MATERIALS IN THEIR ENTIRETY. TAKE SPECIAL CARE NOT TO DAMAGE SOLID STONE ADJACENT TO PATCH. APPLY REPAIR MATERIAL TO RESTORE ORIGINAL STONE PROFILE AND FINISH. THE INTENT OF THE PROJECT IS TO MINIMIZE THE USE OF SUBSTITUTE STONE MATERIALS, AS THIS INTRODUCES AN ADDITIONAL PRODUCT TO THE BUILDING THAT IS NOT ORIGINAL TO ITS DESIGN. THE A/E ACKNOWLEDGES THAT THERE ARE CONDITIONS THAT MAY WARRANT THE USE OF THE MATERIAL IN LIMITED AND CONTROLLED SITUATIONS WHEN ALL OTHER STONE TREATMENT OPTIONS HAVE BEEN EXHAUSTED.</p> <p><b>3. DHL CRACK INJECTION</b> - ALL CRACKS SHALL BE INJECTED, INCLUDING THOSE NOT NECESSARILY NOTED, WHERE APPLICABLE. REMOVE ALL PREVIOUSLY APPLIED MATERIALS IN THEIR ENTIRETY. DO NOT WIDEN CRACK OR DAMAGE SURROUNDING SOUND STONE. ROUTING OUT CRACK TO MAKE IT LARGER TO ACCEPT MORTAR MATERIAL WILL NOT BE PERMITTED. INJECT DHL MATERIAL AS SPECIFIED ACCORDING TO MANUFACTURER'S GUIDELINES.</p> <p><b>4. DUTCHMAN REPAIR</b> - CAREFULLY REMOVE DAMAGED STONE DUTCHMAN TO SPECIFIED DEPTH AND/OR PREVIOUS CEMENT PATCH, AND INSERT A NEW RECLAIMED OR HARVESTED PIECE OF STONE TO FIT IN THE OPENING, TO CREATE THE APPEARANCE OF A SEAMLESS PATCH. MINIMUM SIZE DUTCHMAN REPAIR IS APPROXIMATELY, 2"x3". REDRESS THE FACE TO MATCH ADJACENT ORIGINAL STONE PROFILE AND FINISH. FOR TOLERANCE, REFER TO EXISTING STONE DUTCHMAN EXAMPLE NOTED ON ELEVATIONS.</p> <p><b>5. MORTAR REMOVAL AND REPOINTING</b> - SEE MASONRY AND EXTERIOR GENERAL NOTES C. REPOINTING</p>		<p><b>A. DOCUMENTATION:</b> THESE DRAWINGS WERE PREPARED FROM LIMITED FIELD MEASUREMENTS, OBSERVATION, AND HISTORIC DOCUMENTATION. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS RELATIVE TO THE PROJECT FOR PROPER COORDINATION OF THE WORK. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE A/E. ACTUAL FIELD DOCUMENTATION SHALL BE FOLLOWED IN PREFERENCE TO THE SCALED DRAWINGS.</p> <p><b>B. TRAINING:</b> EACH MASON WORKING ON THE MASONRY RESTORATION SHALL SUCCESSFULLY COMPLETE CERTIFIED TRAINING TO BE CONDUCTED AT THE BUILDING. ALL MASONRY RESTORATION PROCEDURES IDENTIFIED IN THE MASONRY TREATMENT NOTES SHALL BE DEMONSTRATED AND APPROVED AT THE CERTIFIED TRAINING PROGRAM, INCLUDING REPOINTING.</p> <p><b>C. REPOINTING:</b> EXTERIOR STONE MASONRY SHALL BE USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 2 "REPOINTING MORTAR JOINTS IN HISTORIC MASONRY BUILDINGS," AND AS SPECIFIED.</p> <p><b>D. CLEANING:</b> THE INTENT OF STONE CLEANING SHALL BE TO MAXIMIZE BOND STRENGTH BETWEEN MORTAR AND STONE INTERFACES. VERIFY THE DEPTH AND CLEANLINESS OF ALL MORTAR JOINTS PRIOR TO REPOINTING. WHERE REQUIRED, STONE MASONRY SHALL BE CLEANED USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 1 "ASSESSING CLEANING AND WATER-REPELLENT TREATMENT FOR HISTORIC MASONRY BUILDINGS," AS SPECIFIED AND AS APPROVED BY DESIGNER VIA FIELD MOCKUP.</p> <p><b>E. TESTING:</b> EACH MASON AND/OR RESTORATION TECHNICIAN WILL BE REQUIRED TO DEMONSTRATE PROFICIENCY IN A TEST PANEL FOR EVALUATION OF NECESSARY SKILLS TO MEET PROJECT SPECIFICATIONS FOR SELECTIVE REMOVAL, INSTALLATION, AND APPLICATION.</p> <p><b>F. PROTECTION:</b> ALL REPAIR AREAS TO BE PROTECTED FROM WIND, RAIN, SUN AND CONDITIONS THAT WOULD DAMAGE WORK AFTER IT IS COMPLETED.</p> <p><b>G. STANDARDS:</b> ALL WORK TO COMPLY WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION.</p> <p><b>H. REMOVE AND REINSTALL</b> EXISTING DOWNSPOUTS IN ORDER TO PERFORM MASONRY TREATMENTS.</p>			
2	SUBSTITUTE STONE REPAIR - SEE MASONRY TREATMENT REQUIREMENT 2			<p><b>LEGEND</b></p> <p>SC = SCUPPER FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN</p> <p>H = NEW COPPER DOME ACCESS HATCH CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN</p> <p>FP = EXISTING FLAG POLE SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2</p> <p>MV = NEW CUSTOM COPPER MECHANICAL VENT CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504</p> <p>FH = NEW FLAT ROOF ACCESS OPENING / HATCH</p>		<p><b>I. REDRESS STONE INSITU TREATMENTS AT PORTICO ENTRANCES AT EAST AND WEST ELEVATIONS SHALL BE CONSIDERED AN INITIAL TREATMENT TO DETERMINE THE EXTENT OF STONE DETEIORATION. THESE REPAIRS COULD BECOME ELIGIBLE FOR DUTCMAN REPAIRS AFTER COMPLETION OF REDRESS STONE INSITU AND REVIEW BY THE DESIGN TEAM.</b></p>	
3	DHL CRACK INJECTION - SEE MASONRY TREATMENT REQUIREMENT 3						
4	DUTCHMAN REPAIR - SEE MASONRY TREATMENT REQUIREMENT 4						
5	STONE CLEANING - SEE MASONRY AND EXTERIOR GENERAL NOTES D						
6	MORTAR REMOVAL - SEE MASONRY TREATMENT REQUIREMENT 5 AND MORTAR REMOVAL NOTE BELOW						
7	REPOINTING - SEE MASONRY TREATMENT REQUIREMENT 5 AND REPOINTING NOTE BELOW						
NOTES:							
1. ALLOWANCES - PROVIDE AN ADDITIONAL 20% MORTAR REMOVAL AND REPOINTING FROM WHAT IS SHOWN ON THE DRAWINGS.							







111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 25797  
919.404.8330

**Dewberry**  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9939

**SPEWEIK**  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449



# RESTORATION OF THE NORTH CAROLINA STATE CAPITOL BUILDING

1 EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

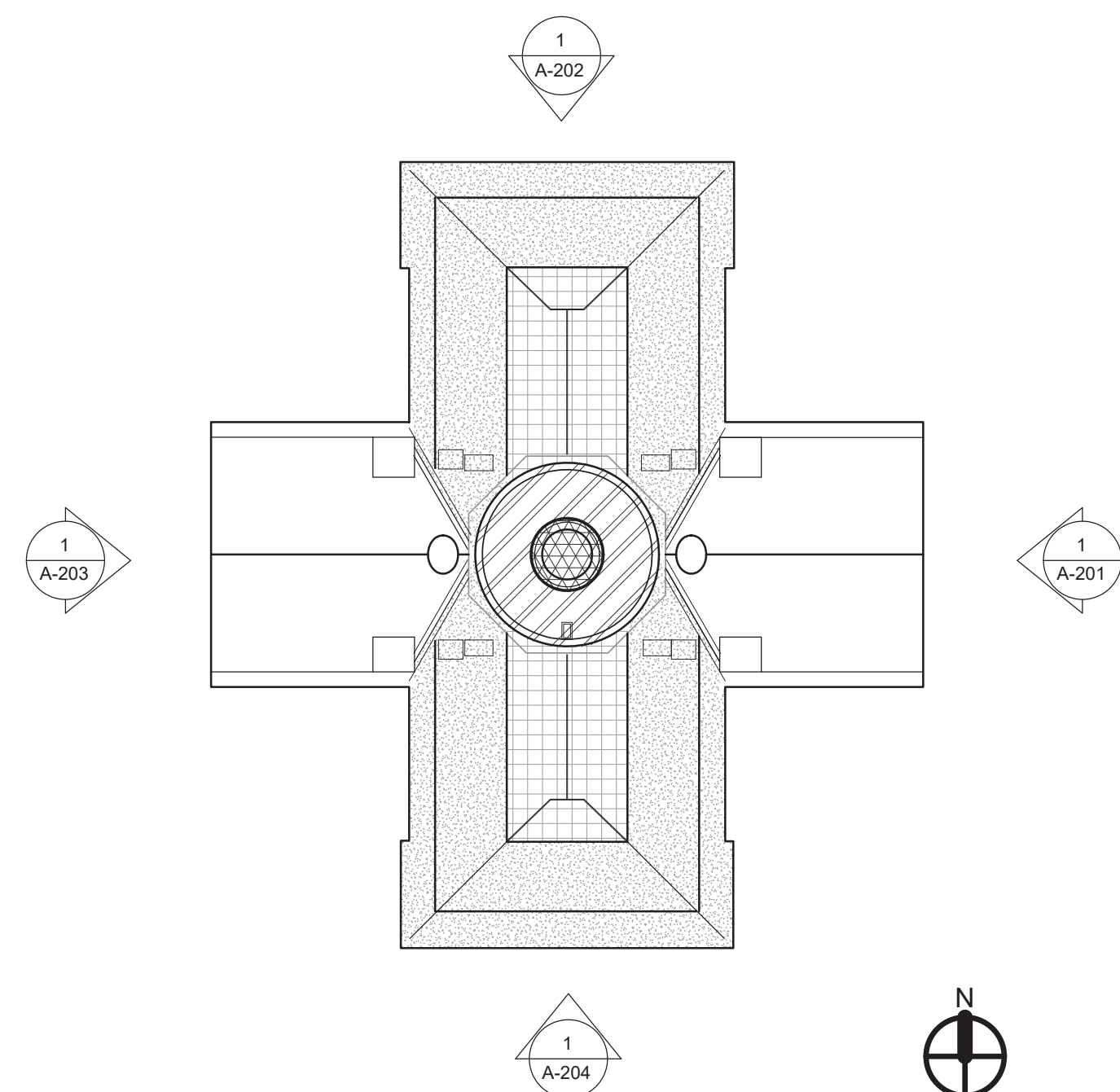
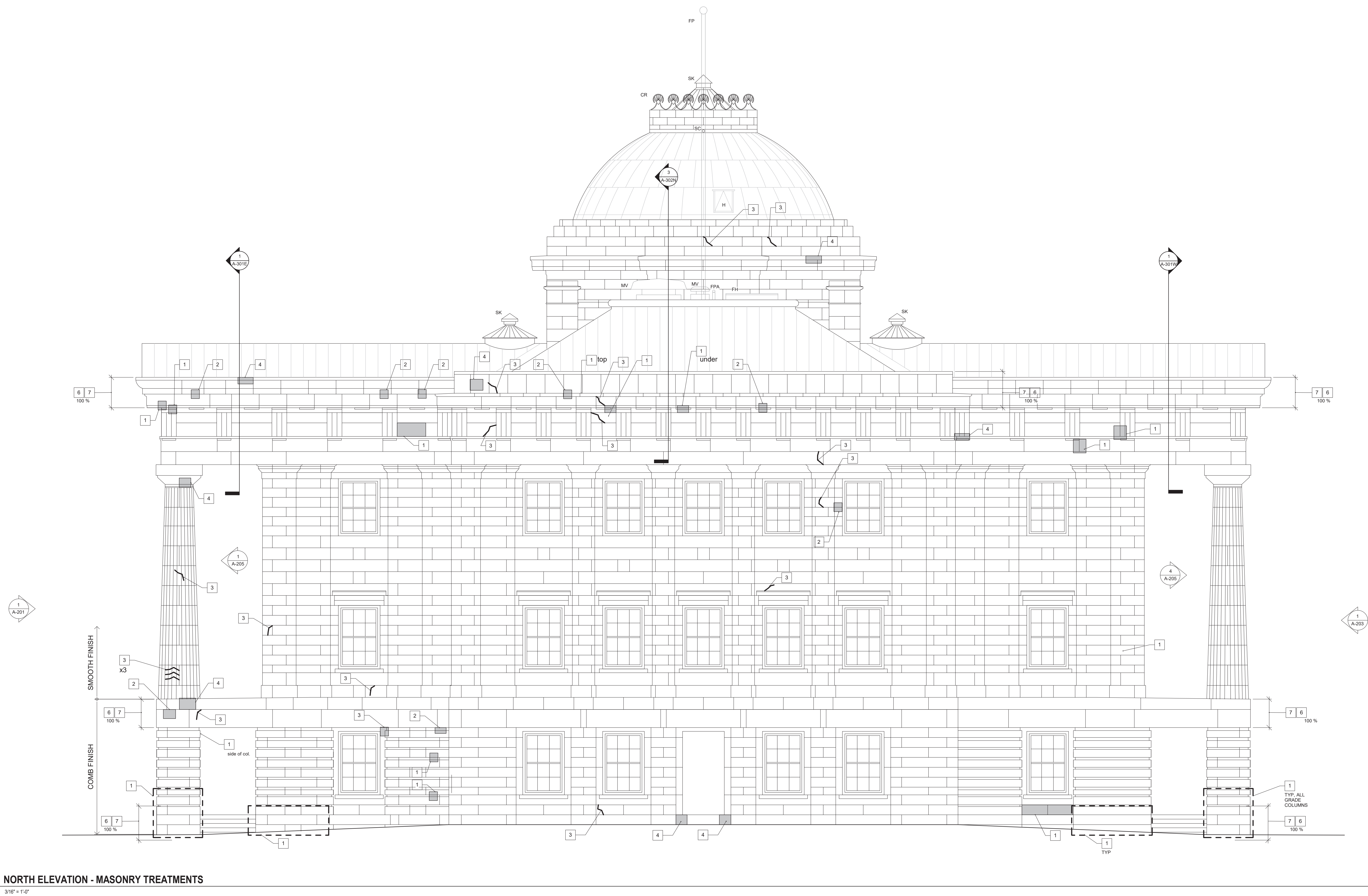
SCO#:  
23-26138-01A

DESIGNED BY:	Designer
SENIOR REVIEW:	Checker
DRAWN BY:	Author

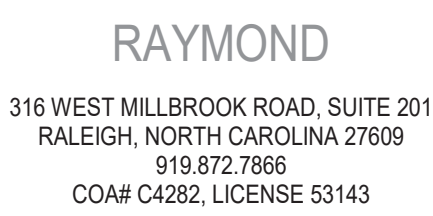
SHEET TITLE:  
NORTH ELEVATION -  
MASONRY  
RESTORATION

SHEET NO.	PROJ. NO.
	RAL1188.001

A-202



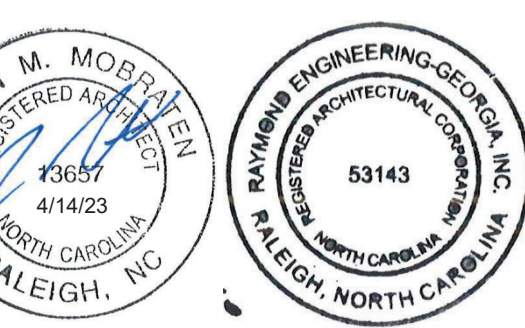




111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 25797  
919.404.8330

**Dewberry**  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9939

**SPEWEIK**  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449



RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

ISSUE:

DATE	DESCRIPTION	BY
------	-------------	----

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

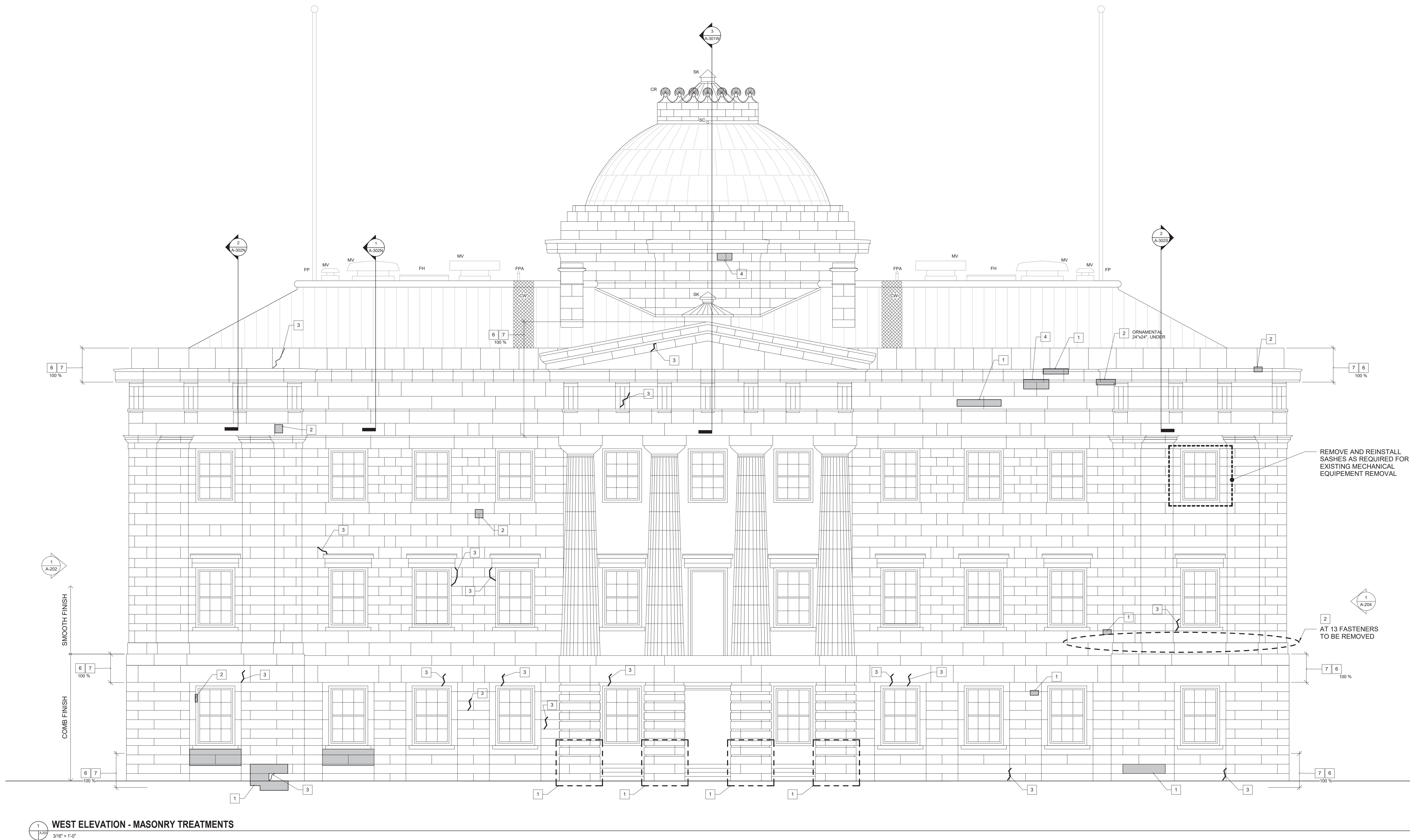
SCO#:  
23-26138-01A

DESIGNED BY:	Designer
FOR REVIEW:	Checker
APPROVED BY:	Author

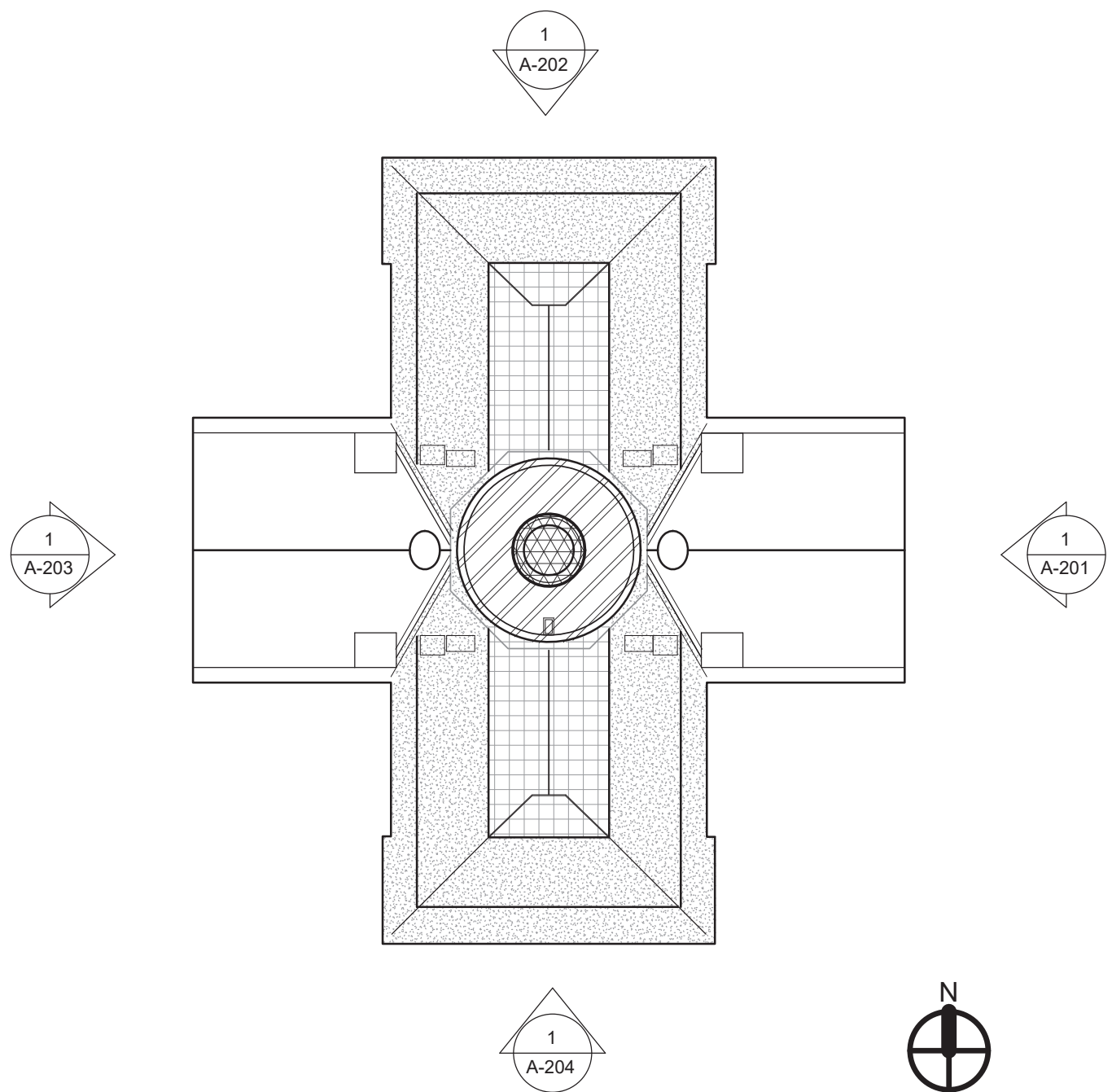
# ST ELEVATION - SONRY STORATION

PROJECT NO.	PROJ. NO.
	RAL1188.001

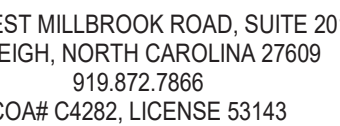
A-203



MASONRY KEYNOTES		MASONRY TREATMENT REQUIREMENTS		MASONRY AND EXTERIOR GENERAL NOTES											
1	REDRESS STONE INSITU - SEE MASONRY TREATMENT REQUIREMENT 1	<div>1. REDRESS INSITU - SCALE OFF ALL LOOSE PIECES OF ORIGINAL STONE FROM MASONRY INTENDED TO STAY IN PLACE, INCLUDING SURFACE MATERIALS IN POWDER OR FLAKE FORM AND DETACHMENT OF PLANAR ELEMENTS, SPALLS, AND CHIPS. MASONRY CONTRACTOR SHALL SOUND FACES TO DETERMINE DELAMINATED PIECES THAT MAY NOT BE IMMEDIATELY VISIBLE.</div> <div>2. SUBSTITUTE STONE REPAIR - REMOVE ALL PREVIOUSLY APPLIED PATCHING MATERIALS IN THEIR ENTIRETY. TAKE SPECIAL CARE NOT TO DAMAGE SOLID STONE ADJACENT TO PATCH. APPLY REPAIR MATERIAL TO RESTORE ORIGINAL STONE PROFILE AND FINISH. THE INTENT OF THE PROJECT IS TO MINIMIZE THE USE OF SUBSTITUTE STONE MATERIALS. AS THIS INTRODUCES AN ADDITIONAL PRODUCT TO THE BUILDING THAT IS NOT ORIGINAL TO ITS DESIGN, THE A/E ACKNOWLEDGES THAT THERE ARE CONDITIONS THAT MAY WARRANT THE USE OF THE MATERIAL IN LIMITED AND CONTROLLED SITUATIONS WHEN ALL OTHER STONE TREATMENT OPTIONS HAVE BEEN EXHAUSTED.</div> <div>3. DHL CRACK INJECTION - ALL CRACKS SHALL BE INJECTED, INCLUDING THOSE NOT NECESSARILY NOTED, WHERE APPLICABLE. REMOVE ALL PREVIOUSLY APPLIED MATERIALS IN THEIR ENTIRETY. DO NOT WIDEN CRACK OR DAMAGE SURROUNDING SOUND STONE. ROUTING OUT CRACK TO MAKE IT LARGER TO ACCEPT MORTAR MATERIAL WILL NOT BE PERMITTED. INJECT DHL MATERIAL AS SPECIFIED ACCORDING TO MANUFACTURER'S GUIDELINES.</div> <div>4. DUTCHMAN REPAIR - CAREFULLY REMOVE DAMAGED STONE DUTCHMAN TO SPECIFIED DEPTH AND/OR PREVIOUS CEMENT PATCH, AND INSERT A NEW RECLAIMED OR HARVESTED PIECE OF STONE TO FIT IN THE OPENING. TO CREATE THE APPEARANCE OF A SEAMLESS PATCH, MINIMUM SIZE DUTCHMAN REPAIR IS APPROXIMATELY, 2"x3". REDRESS THE FACE TO MATCH ADJACENT ORIGINAL STONE PROFILE AND FINISH. FOR TOLERANCE, REFER TO EXISTING STONE DUTCHMAN EXAMPLE NOTED ON ELEVATIONS.</div> <div>5. MORTAR REMOVAL AND REPOINTING - SEE MASONRY AND EXTERIOR GENERAL NOTES C. REPOINTING</div>		<div>A. DOCUMENTATION: THESE DRAWINGS WERE PREPARED FROM LIMITED FIELD MEASUREMENTS, OBSERVATION, AND HISTORIC DOCUMENTATION. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS RELATIVE TO THE PROJECT FOR PROPER COORDINATION OF THE WORK. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE A/E. ACTUAL FIELD DOCUMENTATION SHALL BE FOLLOWED IN PREFERENCE TO THE SCALED DRAWINGS.</div> <div>B. TRAINING: EACH MASON WORKING ON THE MASONRY RESTORATION SHALL SUCCESSFULLY COMPLETE CERTIFIED TRAINING TO BE CONDUCTED AT THE BUILDING. ALL MASONRY RESTORATION PROCEDURES IDENTIFIED IN THE MASONRY TREATMENT NOTES SHALL BE DEMONSTRATED AND APPROVED AT THE CERTIFIED TRAINING PROGRAM, INCLUDING REPOINTING.</div> <div>C. REPOINTING: EXTERIOR STONE MASONRY SHALL BE USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 2 "REPOINTING MORTAR JOINTS IN HISTORIC MASONRY BUILDINGS," AND AS SPECIFIED.</div> <div>D. CLEANING: THE INTENT OF STONE CLEANING SHALL BE TO MAXIMIZE BOND STRENGTH BETWEEN MORTAR AND STONE INTERFACES. VERIFY THE DEPTH AND CLEANLINESS OF ALL MORTAR JOINTS PRIOR TO REPOINTING. WHERE REQUIRED, STONE MASONRY SHALL BE CLEANED USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 1 "ASSESSING CLEANING AND WATER-REPELLENT TREATMENT FOR HISTORIC MASONRY BUILDINGS," AS SPECIFIED AND AS APPROVED BY DESIGNER VIA FIELD MOCKUP.</div> <div>E. TESTING: EACH MASON AND/OR RESTORATION TECHNICIAN WILL BE REQUIRED TO DEMONSTRATE PROFICIENCY IN A TEST PANEL FOR EVALUATION OF NECESSARY SKILLS TO MEET PROJECT SPECIFICATIONS FOR SELECTIVE REMOVAL, INSTALLATION, AND APPLICATION.</div> <div>F. PROTECTION: ALL REPAIR AREAS TO BE PROTECTED FROM WIND, RAIN, SUN AND CONDITIONS THAT WOULD DAMAGE WORK AFTER IT IS COMPLETED.</div> <div>G. STANDARDS: ALL WORK TO COMPLY WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION.</div> <div>H. REMOVE AND REINSTALL EXISTING DOWNSPOUTS IN ORDER TO PERFORM MASONRY TREATMENTS.</div>											
2	SUBSTITUTE STONE REPAIR - SEE MASONRY TREATMENT REQUIREMENT 2														
3	DHL CRACK INJECTION - SEE MASONRY TREATMENT REQUIREMENT 3														
4	DUTCHMAN REPAIR - SEE MASONRY TREATMENT REQUIREMENT 4														
5	STONE CLEANING - SEE MASONRY AND EXTERIOR GENERAL NOTES D														
6	MORTAR REMOVAL - SEE MASONRY TREATMENT REQUIREMENT 5 AND MORTAR REMOVAL NOTE BELOW	<div>LEGEND</div> <table><tr><td>SC = SCUPPER</td><td>FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN</td></tr><tr><td>H = NEW COPPER DOME ACCESS HATCH</td><td>CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN</td></tr><tr><td>FP = EXISTING FLAG POLE</td><td>SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2</td></tr><tr><td>MV = NEW CUSTOM COPPER MECHANICAL VENT</td><td>CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504</td></tr><tr><td>FH = NEW FLAT ROOF ACCESS OPENING / HATCH</td><td></td></tr></table>		SC = SCUPPER	FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN	H = NEW COPPER DOME ACCESS HATCH	CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN	FP = EXISTING FLAG POLE	SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2	MV = NEW CUSTOM COPPER MECHANICAL VENT	CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504	FH = NEW FLAT ROOF ACCESS OPENING / HATCH		<div>I. REDRESS STONE INSITU TREATMENTS AT PORTICO ENTRANCES AT EAST AND WEST ELEVATIONS SHALL BE CONSIDERED AN INITIAL TREATMENT TO DETERMINE THE EXTENT OF STONE DETERIORATION. THESE REPAIRS COULD BECOME ELIGIBLE FOR DUTCMAN REPAIRS AFTER COMPLETION OF REDRESS STONE INSITU AND REVIEW BY THE DESIGN TEAM.</div>	
SC = SCUPPER	FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN														
H = NEW COPPER DOME ACCESS HATCH	CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN														
FP = EXISTING FLAG POLE	SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2														
MV = NEW CUSTOM COPPER MECHANICAL VENT	CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504														
FH = NEW FLAT ROOF ACCESS OPENING / HATCH															
7	REPOINTING - SEE MASONRY TREATMENT REQUIREMENT 5 AND REPOINTING NOTE BELOW														
NOTES:  1. ALLOWANCES: PROVIDE AN ADDITIONAL 20% MORTAR REMOVAL AND REPOINTING FROM WHAT IS SHOWN ON THE DRAWINGS.															





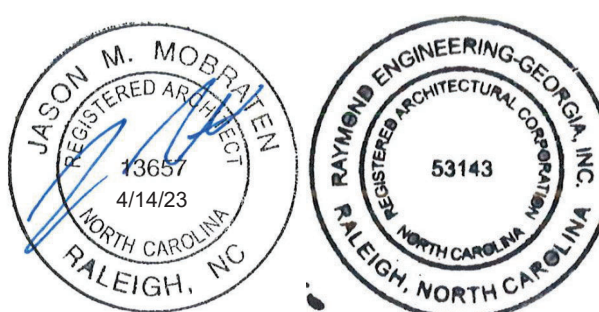


111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 25797  
919.404.8330

2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9539

Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDENTON STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

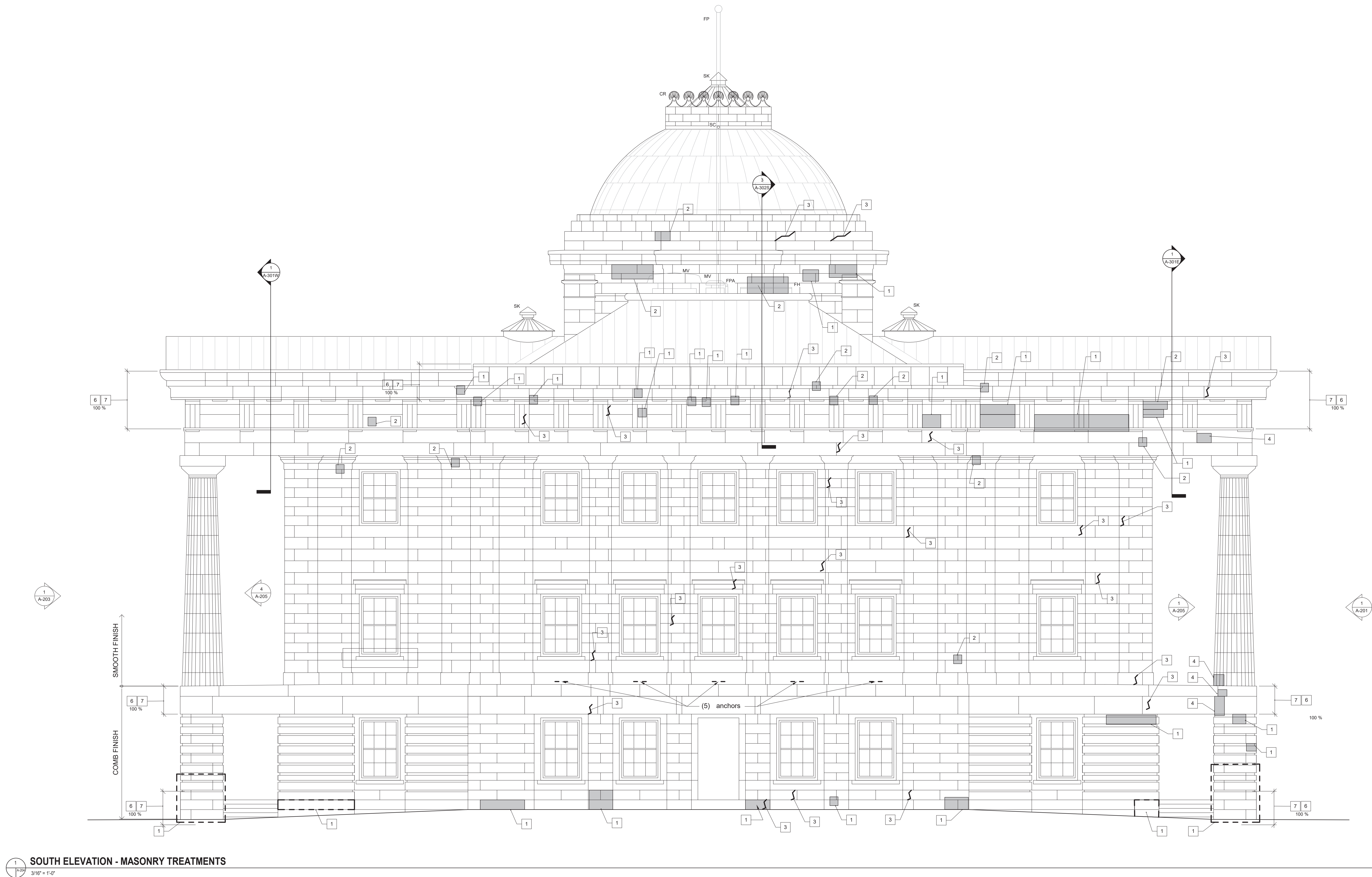
SCO#:  
13-26138-01A

DESIGNED BY:	Designer
SENIOR REVIEW:	Checker
DRAWN BY:	Author

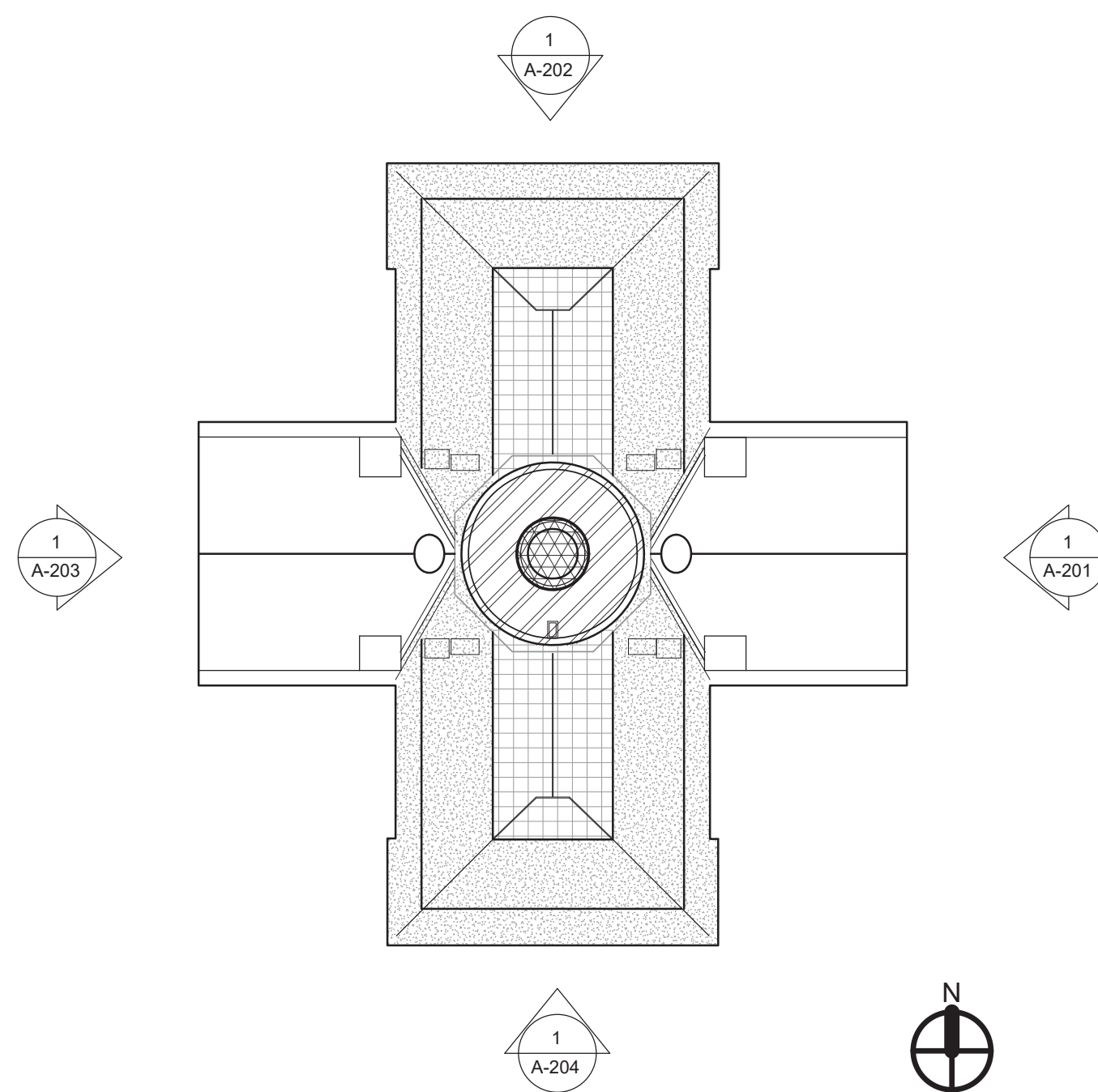
SHEET TITLE:  
SOUTH ELEVATION -  
MASONRY  
RESTORATION

SHEET NO.	PROJ. NO.
	RAL1188.001

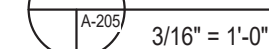
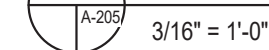
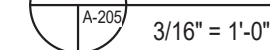
A-204



MASONRY KEYNOTES		MASONRY TREATMENT REQUIREMENTS		MASONRY AND EXTERIOR GENERAL NOTES	
1	REDRESS STONE INSITU - SEE MASONRY TREATMENT REQUIREMENT 1	<p>1. <b>REDRESS INSITU</b> - SCALE OFF ALL LOOSE PIECES OF ORIGINAL STONE FROM MASONRY INTENDED TO STAY IN PLACE, INCLUDING SURFACE MATERIALS IN POWDER OR GRANULAR FORM AND DETACHMENT OF PLANAR ELEMENTS, SPALLS, AND CHIPS. MASONRY CONTRACTOR SHALL SOUND FACES TO DETERMINE DELAMINATED PIECES THAT MAY NOT BE IMMEDIATELY VISIBLE.</p> <p>2. <b>SUBSTITUTE STONE REPAIR</b> - REMOVE ALL PREVIOUSLY APPLIED PATCHING MATERIALS IN THEIR ENTIRETY. TAKE SPECIAL CARE NOT TO DAMAGE SOLID STONE ADJACENT TO PATCH; APPLY REPAIR MATERIAL TO RESTORE ORIGINAL STONE PROFILE AND FINISH. THE INTENT OF THE PROJECT IS TO MINIMIZE THE USE OF SUBSTITUTE STONE MATERIALS, AS THIS INTRODUCES AN ADDITIONAL PRODUCT TO THE BUILDING THAT IS NOT ORIGINAL, TO ITS DESIGN. THE A/E ACKNOWLEDGES THAT THERE ARE CONDITIONS THAT MAY WARRANT THE USE OF THE MATERIAL IN LIMITED AND CONTROLLED SITUATIONS WHEN ALL OTHER STONE TREATMENT OPTIONS HAVE BEEN EXHAUSTED.</p> <p>3. <b>DHL CRACK INJECTION</b> - ALL CRACKS SHALL BE INJECTED, INCLUDING THOSE NOT NECESSARILY NOTED, WHERE APPLICABLE. REMOVE ALL PREVIOUSLY APPLIED MATERIALS IN THEIR ENTIRETY. DO NOT WIDEN CRACK OR DAMAGE SURROUNDING SOUND STONE. ROUTING OUT CRACK TO MAKE IT LARGER TO ACCEPT MORTAR MATERIAL WILL NOT BE PERMITTED. INJECT DHL MATERIAL AS SPECIFIED ACCORDING TO MANUFACTURER'S GUIDELINES.</p> <p>4. <b>DUTCHMAN REPAIR</b> - CAREFULLY REMOVE DAMAGED STONE DUTCHMAN TO SPECIFIED DEPTH AND/OR PREVIOUS CEMENT PATCH, AND INSERT A NEW RECLAIMED OR HARVESTED PIECE OF STONE TO FIT IN THE OPENING, TO CREATE THE APPEARANCE OF A SEAMLESS PATCH. MINIMUM SIZE DUTCHMAN REPAIR IS APPROXIMATELY 2'x3'. REDRESS THE FACE TO MATCH ADJACENT ORIGINAL STONE PROFILE AND FINISH. FOR TOLERANCE, REFER TO EXISTING STONE DUTCHMAN EXAMPLE NOTED ON ELEVATIONS.</p> <p>5. <b>MORTAR REMOVAL AND REPOINTING</b> - SEE MASONRY AND EXTERIOR GENERAL NOTES C. REPOINTING</p>		<p>A. DOCUMENTATION: THESE DRAWINGS WERE PREPARED FROM LIMITED FIELD MEASUREMENTS, OBSERVATION, AND HISTORIC DOCUMENTATION. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS RELATIVE TO THE PROJECT FOR PROPER COORDINATION OF THE WORK. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE A/E. ACTUAL FIELD DOCUMENTATION SHALL BE FOLLOWED IN PREFERENCE TO THE SCALED DRAWINGS.</p> <p>B. TRAINING: EACH MASON WORKING ON THE MASONRY RESTORATION SHALL SUCCESSFULLY COMPLETE CERTIFIED TRAINING TO BE CONDUCTED AT THE BUILDING. ALL MASONRY RESTORATION PROCEDURES IDENTIFIED IN THE MASONRY TREATMENT NOTES SHALL BE DEMONSTRATED AND APPROVED AT THE CERTIFIED TRAINING PROGRAM, INCLUDING REPOINTING.</p> <p>C. REPOINTING: EXTERIOR STONE MASONRY SHALL BE USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 2 "REPOINTING MORTAR JOINTS IN HISTORIC MASONRY BUILDINGS;" AND AS SPECIFIED.</p> <p>D. CLEANING: THE INTENT OF STONE CLEANING SHALL BE TO MAXIMIZE BOND STRENGTH BETWEEN MORTAR AND STONE INTERFACES. VERIFY THE DEPTH AND CLEANLINESS OF ALL MORTAR JOINTS PRIOR TO REPOINTING, WHERE REQUIRED. STONE MASONRY SHALL BE CLEANED USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 1 "ASSESSING CLEANING AND WATER-REPELLENT TREATMENT FOR HISTORIC MASONRY BUILDINGS," AS SPECIFIED AND AS APPROVED BY DESIGNER VIA FIELD MOCKUP.</p> <p>E. TESTING: EACH MASON AND/OR RESTORATION TECHNICIAN WILL BE REQUIRED TO DEMONSTRATE PROFICIENCY IN A TEST PANEL FOR EVALUATION OF NECESSARY SKILLS TO MEET PROJECT SPECIFICATIONS FOR SELECTIVE REMOVAL, INSTALLATION, AND APPLICATION.</p> <p>F. PROTECTION: ALL REPAIR AREAS TO BE PROTECTED FROM WIND, RAIN, SUN AND CONDITIONS THAT WOULD DAMAGE WORK AFTER IT IS COMPLETED.</p> <p>G. STANDARDS: ALL WORK TO COMPLY WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION.</p> <p>H. REMOVE AND REINSTALL EXISTING DOWNSPOUTS IN ORDER TO PERFORM MASONRY TREATMENTS.</p>	
2	SUBSTITUTE STONE REPAIR - SEE MASONRY TREATMENT REQUIREMENT 2				
3	DHL CRACK INJECTION - SEE MASONRY TREATMENT REQUIREMENT 3				
4	DUTCHMAN REPAIR - SEE MASONRY TREATMENT REQUIREMENT 4				
5	STONE CLEANING - SEE MASONRY AND EXTERIOR GENERAL NOTES D				
6	MORTAR REMOVAL - SEE MASONRY TREATMENT REQUIREMENT 5 AND MORTAR REMOVAL NOTE BELOW				
7	REPOINTING - SEE MASONRY TREATMENT REQUIREMENT 5 AND REPOINTING NOTE BELOW				
NOTES:		<b>LEGEND</b>		<p>I. REDRESS STONE INSITU TREATMENTS AT PORTICO ENTRANCES AT EAST AND WEST ELEVATIONS SHALL BE CONSIDERED AN INITIAL TREATMENT TO DETERMINE THE EXTENT OF STONE DETEIORATION. THESE REPAIRS COULD BECOME ELIGIBLE FOR DUTCMAN REPAIRS AFTER COMPLETION OF REDRESS STONE INSITU AND REVIEW BY THE DESIGN TEAM.</p>	
1. ALLOWANCES - PROVIDE AN ADDITIONAL 20% MORTAR REMOVAL AND REPOINTING FROM WHAT IS SHOWN ON THE DRAWINGS.					
		SC = SCUPPER	FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN		
		H = NEW COPPER DOME ACCESS HATCH	CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN		
		FP = EXISTING FLAG POLE	SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2		
		MV = NEW CUSTOM COPPER MECHANICAL VENT	CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504		
		FH = NEW FLAT ROOF ACCESS OPENING / HATCH			



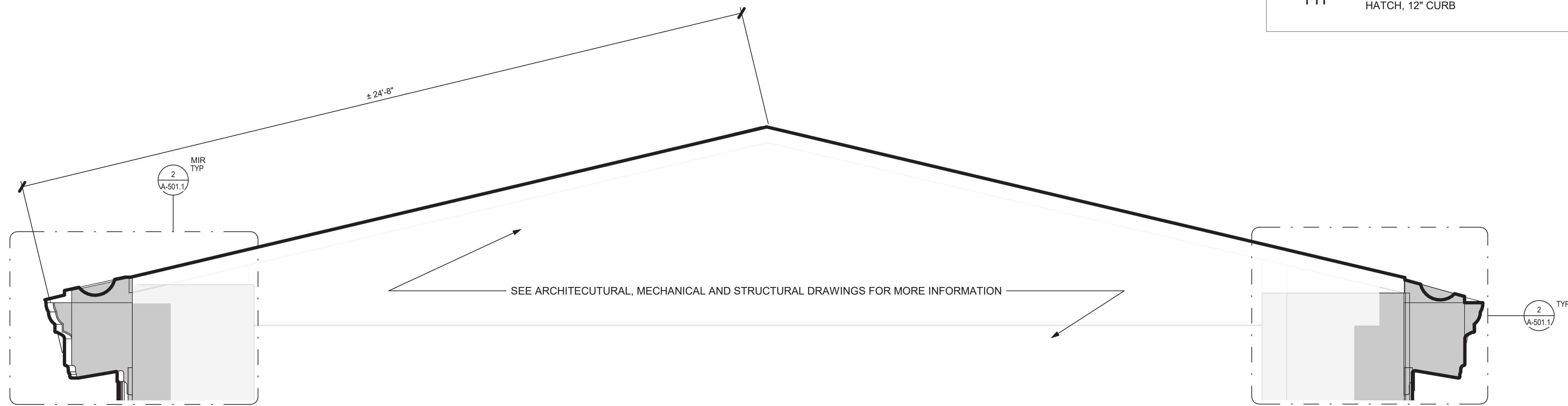




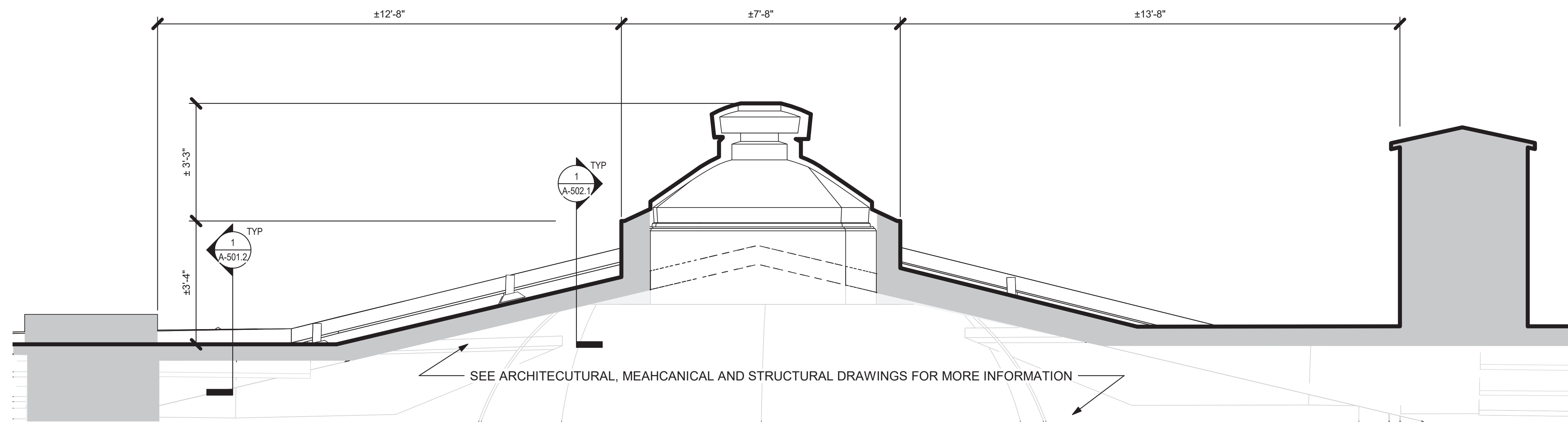
MASONRY KEYNOTES		MASONRY TREATMENT REQUIREMENTS		MASONRY AND EXTERIOR GENERAL NOTES									
1	REDRESS STONE INSITU - SEE MASONRY TREATMENT REQUIREMENT 1	<p>1. REDRESS INSITU - SCALE OFF ALL LOOSE PIECES OF ORIGINAL STONE FROM MASONRY INTENDED TO STAY IN PLACE, INCLUDING SURFACE MATERIALS IN POWDER OR GRANULAR FORM AND DETACHMENT OF PLANAR ELEMENTS, SPALLS, AND CHIPS. MASONRY CONTRACTOR SHALL SOUND FACES TO DETERMINE DELAMINATED PIECES THAT MAY NOT BE IMMEDIATELY VISIBLE.</p> <p>2. SUBSTITUTE STONE REPAIR - REMOVE ALL PREVIOUSLY APPLIED PATCHING MATERIALS IN THEIR ENTIRETY. TAKE SPECIAL CARE NOT TO DAMAGE SOLID STONE ADJACENT TO PATCH. APPLY REPAIR MATERIAL TO RESTORE ORIGINAL STONE PROFILE AND FINISH. THE INTENT OF THE PROJECT IS TO MINIMIZE THE USE OF SUBSTITUTE STONE MATERIALS. AS THIS INTRODUCES AN ADDITIONAL PRODUCT TO THE BUILDING THAT IS NOT ORIGINAL, TO ITS DESIGN. THE A/E ACKNOWLEDGES THAT THERE ARE CONDITIONS THAT MAY WARRANT THE USE OF THE MATERIAL IN LIMITED AND CONTROLLED SITUATIONS WHEN ALL OTHER STONE TREATMENT OPTIONS HAVE BEEN EXHAUSTED.</p> <p>3. DHL CRACK INJECTION - ALL CRACKS SHALL BE INJECTED, INCLUDING THOSE NOT NECESSARILY NOTED, WHERE APPLICABLE. REMOVE ALL PREVIOUSLY APPLIED MATERIALS IN THEIR ENTIRETY. DO NOT WIDEN CRACK OR DAMAGE SURROUNDING SOUND STONE. ROUTING OUT CRACK TO MAKE IT LARGER TO ACCEPT MORTAR MATERIAL WILL NOT BE PERMITTED. INJECT DHL MATERIAL AS SPECIFIED ACCORDING TO MANUFACTURER'S GUIDELINES.</p> <p>4. DUTCHMAN REPAIR - CAREFULLY REMOVE DAMAGED STONE DUTCHMAN TO SPECIFIED DEPTH AND/OR PREVIOUS CEMENT PATCH, AND INSERT A NEW RECLAIMED OR HARVESTED PIECE OF STONE TO FIT IN THE OPENING. TO CREATE THE APPEARANCE OF A SEAMLESS PATCH. MINIMUM SIZE DUTCHMAN REPAIR IS APPROXIMATELY 2"x3". REDRESS THE FACE TO MATCH ADJACENT ORIGINAL STONE PROFILE AND FINISH. FOR TOLERANCE, REFER TO EXISTING STONE DUTCHMAN EXAMPLE NOTED ON ELEVATIONS.</p> <p>5. MORTAR REMOVAL AND REPOINTING - SEE MASONRY AND EXTERIOR GENERAL NOTES C. REPOINTING</p>		<p>A. DOCUMENTATION: THESE DRAWINGS WERE PREPARED FROM LIMITED FIELD MEASUREMENTS, OBSERVATION, AND HISTORIC DOCUMENTATION. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS RELATIVE TO THE PROJECT FOR PROPER COORDINATION OF THE WORK. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE A/E. ACTUAL FIELD DOCUMENTATION SHALL BE FOLLOWED IN PREFERENCE TO THE SCALED DRAWINGS.</p> <p>B. TRAINING: EACH MASON WORKING ON THE MASONRY RESTORATION SHALL SUCCESSFULLY COMPLETE CERTIFIED TRAINING TO BE CONDUCTED AT THE BUILDING. ALL MASONRY RESTORATION PROCEDURES IDENTIFIED IN THE MASONRY TREATMENT NOTES SHALL BE DEMONSTRATED AND APPROVED AT THE CERTIFIED TRAINING PROGRAM, INCLUDING REPOINTING.</p> <p>C. REPOINTING: EXTERIOR STONE MASONRY SHALL BE USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 2 "REPOINTING MORTAR JOINTS IN HISTORIC MASONRY BUILDINGS," AND AS SPECIFIED.</p> <p>D. CLEANING: THE INTENT OF STONE CLEANING SHALL BE TO MAXIMIZE BOND STRENGTH BETWEEN MORTAR AND STONE INTERFACES. VERIFY THE DEPTH AND CLEANLINESS OF ALL MORTAR JOINTS PRIOR TO REPOINTING. WHERE REQUIRED, STONE MASONRY SHALL BE CLEANED USING METHODS APPROVED BY NPS PRESERVATION BRIEF NUMBER 1 "ASSESSING CLEANING AND WATER-REPELLENT TREATMENT FOR HISTORIC MASONRY BUILDINGS," AS SPECIFIED AND AS APPROVED BY DESIGNER VIA FIELD MOCKUP.</p> <p>E. TESTING: EACH MASON AND/OR RESTORATION TECHNICIAN WILL BE REQUIRED TO DEMONSTRATE PROFICIENCY IN A TEST PANEL FOR EVALUATION OF NECESSARY SKILLS TO MEET PROJECT SPECIFICATIONS FOR SELECTIVE REMOVAL, INSTALLATION, AND APPLICATION.</p> <p>F. PROTECTION: ALL REPAIR AREAS TO BE PROTECTED FROM WIND, RAIN, SUN AND CONDITIONS THAT WOULD DAMAGE WORK AFTER IT IS COMPLETED.</p> <p>G. STANDARDS: ALL WORK TO COMPLY WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION.</p> <p>H. REMOVE AND REINSTALL EXISTING DOWNSPOUTS IN ORDER TO PERFORM MASONRY TREATMENTS.</p>									
2	SUBSTITUTE STONE REPAIR - SEE MASONRY TREATMENT REQUIREMENT 2												
3	DHL CRACK INJECTION - SEE MASONRY TREATMENT REQUIREMENT 3												
4	DUTCHMAN REPAIR - SEE MASONRY TREATMENT REQUIREMENT 4												
5	STONE CLEANING - SEE MASONRY AND EXTERIOR GENERAL NOTES D												
6	MORTAR REMOVAL - SEE MASONRY TREATMENT REQUIREMENT 5 AND MORTAR REMOVAL NOTE BELOW	<p>I. REDRESS STONE INSITU TREATMENTS AT PORTICO ENTRANCES AT EAST AND WEST ELEVATIONS SHALL BE CONSIDERED AN INITIAL TREATMENT TO DETERMINE THE EXTENT OF STONE DETEIORATION. THESE REPAIRS COULD BECOME ELIGIBLE FOR DUTCMAN REPAIRS AFTER COMPLETION OF REDRESS STONE INSITU AND REVIEW BY THE DESIGN TEAM.</p>											
7	REPOINTING - SEE MASONRY TREATMENT REQUIREMENT 5 AND REPOINTING NOTE BELOW												
NOTES:		<p>LEGEND</p> <table><tr><td>SC = SCUPPER</td><td>FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN</td></tr><tr><td>H = NEW COPPER DOME ACCESS HATCH</td><td>CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN</td></tr><tr><td>FP = EXISTING FLAG POLE</td><td>SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2</td></tr><tr><td>MV = NEW CUSTOM COPPER MECHANICAL VENT</td><td>CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504</td></tr><tr><td>FH = NEW FLAT ROOF ACCESS OPENING / HATCH</td><td></td></tr></table>		SC = SCUPPER	FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN	H = NEW COPPER DOME ACCESS HATCH	CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN	FP = EXISTING FLAG POLE	SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2	MV = NEW CUSTOM COPPER MECHANICAL VENT	CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504	FH = NEW FLAT ROOF ACCESS OPENING / HATCH	
SC = SCUPPER	FPA = FALL PROTECTION ANCHOR - DELEGATED DESIGN												
H = NEW COPPER DOME ACCESS HATCH	CW = ROOF CATWALK SYSTEM - DELEGATED DESIGN												
FP = EXISTING FLAG POLE	SK = SKYLIGHT, SEE SHEETS A-504 AND A-501.2												
MV = NEW CUSTOM COPPER MECHANICAL VENT	CR = EXISTING CROWN TO REMAIN, SEE SHEET A-504												
FH = NEW FLAT ROOF ACCESS OPENING / HATCH													
1. ALLOWANCES: PROVIDE AN ADDITIONAL 20% MORTAR REMOVAL AND REPOINTING FROM WHAT IS SHOWN ON THE DRAWINGS.													



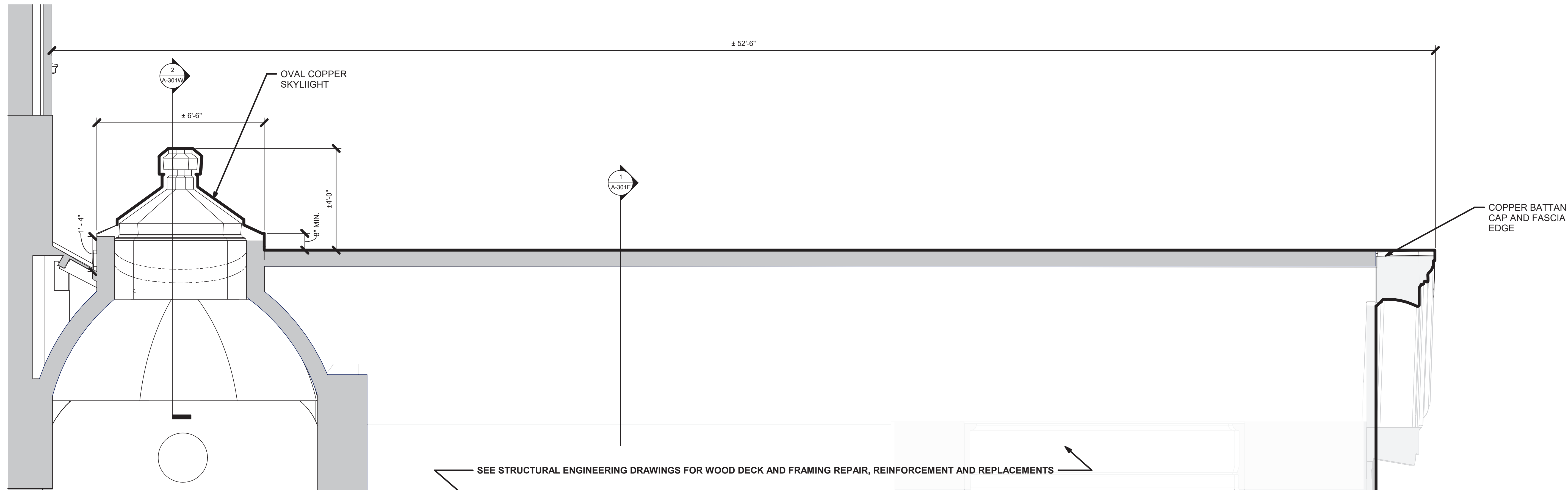
ALL DRAWINGS, SPECIFICATIONS, AND NOTES HEREOF ARE THE PROPERTY OF HANNOCK ARCHITECTURE. THESE MATERIALS ARE TO BE USED ONLY WITHIN THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF HANNOCK ARCHITECTURE, NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. HANNOCK ARCHITECTURE, 316 WEST MILLBROOK ROAD, SUITE 201, RALEIGH, NORTH CAROLINA 27608, 919.872.7988, CO#46 C4282, LICENSE 53143



1 ROOF TYPE 1 - EAST- TRANSVERSE EAST SECTION  
1/2" = 1'-0"



2 ROOF TYPE 1 - EAST - PARTIAL SECTION AT SKYLIGHT1  
1/2" = 1'-0"



3 ROOF TYPE 1 - EAST - LONGITUDINAL SECTION  
1/2" = 1'-0"

#### ROOF SECTION LEGEND:

- EDGE OF HIGH-TEMPERATURE SELF-ADHERED UNDERLAYMENT
- EDGE OF LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
- ROOF SLOPE (U.O.N.)
- TYPICAL 1/4"/12" GUTTER DOWNSLOPE DIRECTION
- ROOF DOWNSLOPE DIRECTION OF STRUCTURALLY SLOPED ROOF
- EXISTING SCUPPER
- INTERNAL ROOF DRAIN
- NEW COPPER ACCESS HATCH AT EXISTING OPENING, 12" CURB
- MECHANICAL VENT, 12" CURB
- NEW FLAT ROOF ACCESS OPENING/ HATCH, 12" CURB

- COPPER 1" DOUBLE-LOCKK STANDING WITH TRANSVERSE SEAM COPPER ROOF SYSTEM
- TRANSVERSE SEAM/ EXPANSION JOINT OR FOLD SEAM AS REQUIRED.
- DOUBLE-LOCK STANDING SEAM WITH BUTYL SEALANT COPPER FLASHING SEAM EDGE BELOW ROOF SYSTEM
- FPA FALL PROTECTION ANCHOR, DELEGATED DESIGN BY OTHERS
- EXISTING VENT TO BE CAPPED IF NOT IN USE BELOW NEW COPPER (VIF)
- FALL PROTECTION CATWALK SYSTEM, DELEGATED DESIGN BY OTHERS
- IDS EXISTING INTERNAL ROOF DRAIN TO DOWNSPOUT
- DS EXISTING DOWNSPOUT TO REMAIN (VIF WORKING CONDITION AND REPAIR AS REQUIRED)
- SK SKYLIGHT SEE SHEETS A-504 AND A-501.2
- FP EXISTING FLAG POLE, SEE STRCUTURAL SHEETS



RAYMOND

316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27608  
919.872.7988  
CO#46 C4282, LICENSE 53143



111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.8330



2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9539



Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.858.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDEN STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
-----	------	-------------	----

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SCO#:  
23-26138-01A

DESIGNED BY:	G/C
SENIOR REVIEW:	J/W
DRAWN BY:	G/C

SHEET TITLE:  
ROOF TYPE 1 - EAST -  
SECTIONS

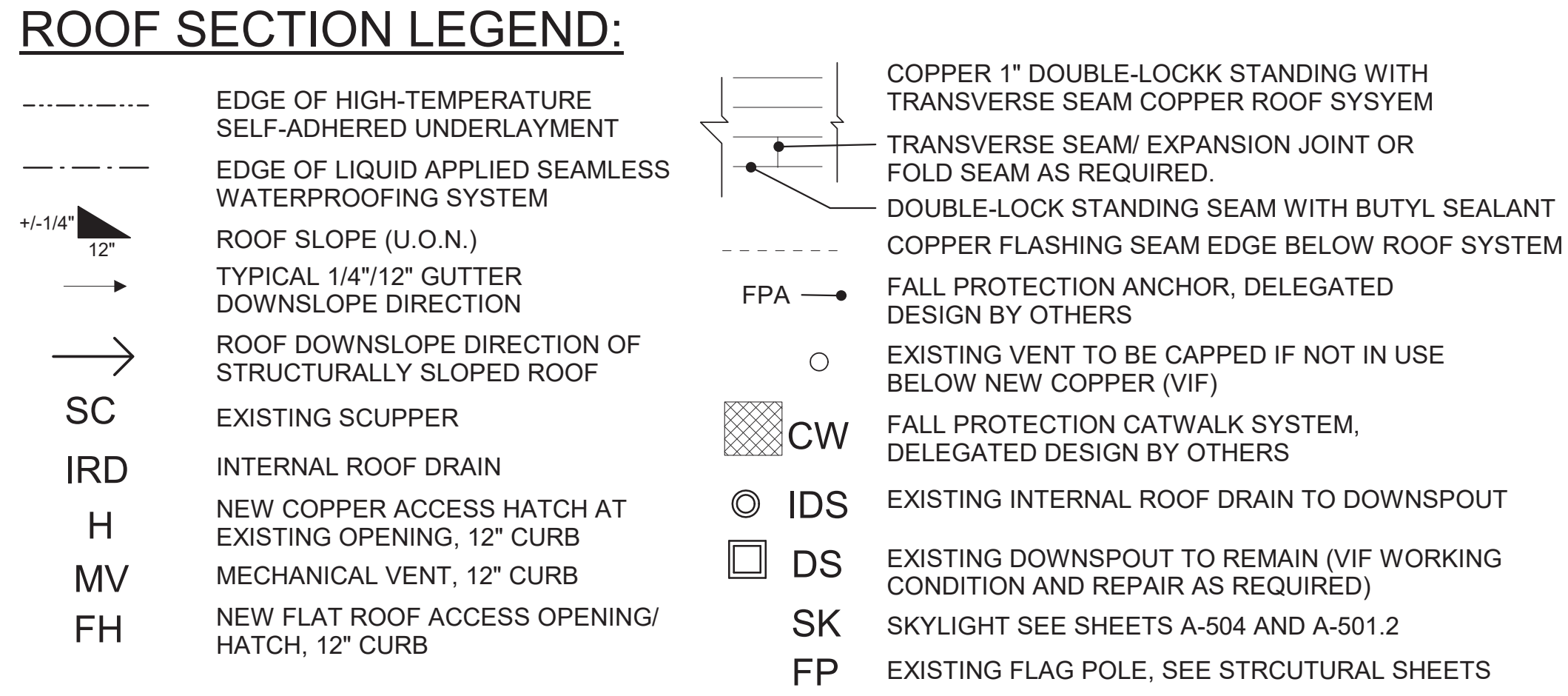
SHEET NO.	PROJ. NO.
	RA1188.001

A-301E

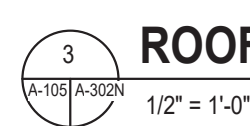
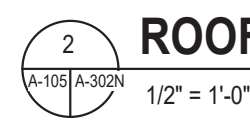








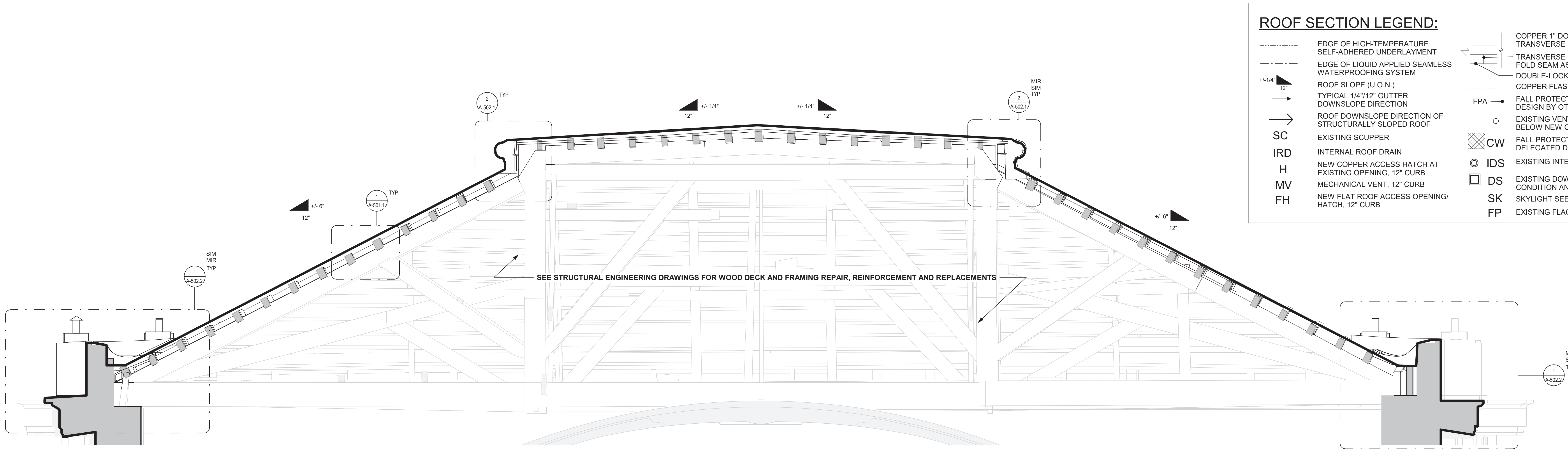
1 ROOF  
1/2" = 1'-0"



## A-302N



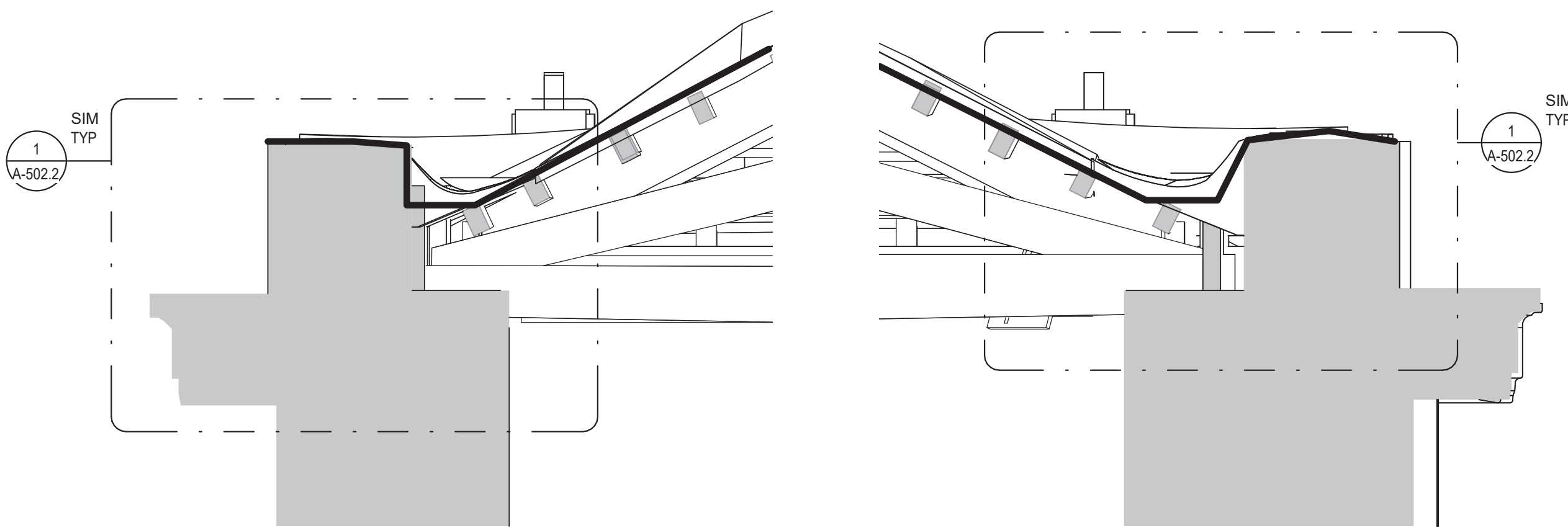
ALL DRAWINGS, SPECIFICATIONS, AND NOTES HEREOF SHALL BE THE PROPERTY OF RAYMOND. THESE MATERIALS ARE TO BE USED ONLY WITHIN THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THESE MATERIALS IS PROHIBITED. RAYMOND SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY, INCLUDING THE PROJECT, ARISING FROM THE USE OF THESE MATERIALS. THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION. THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION. THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION.



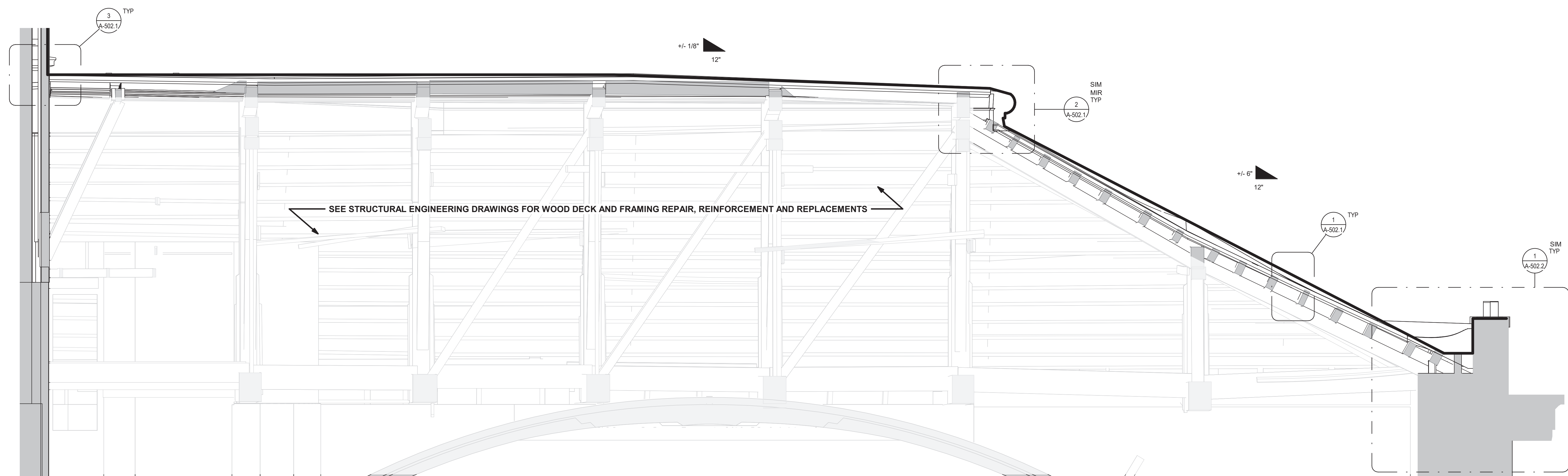
#### ROOF SECTION LEGEND:

- EDGE OF HIGH-TEMPERATURE SELF-ADHERED UNDERLAYMENT
- EDGE OF LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
- ROOF SLOPE (U.O.N.)
- TYPICAL 1/4"/12" GUTTER DOWNSLOPE DIRECTION
- ROOF DOWNSLOPE DIRECTION OF STRUCTURALLY SLOPED ROOF
- EXISTING SCUPPER
- INTERNAL ROOF DRAIN
- NEW COPPER ACCESS HATCH AT EXISTING OPENING, 12" CURB
- MECHANICAL VENT, 12" CURB
- NEW FLAT ROOF ACCESS OPENING/ HATCH, 12" CURB
- COPPER 1" DOUBLE-LOCKK STANDING WITH TRANSVERSE SEAM COPPER ROOF SYSTEM
- TRANSVERSE SEAM/ EXPANSION JOINT OR FOLD SEAM AS REQUIRED
- DOUBLE-LOCK STANDING SEAM WITH BUTYL SEALANT COPPER FLASHING SEAM EDGE BELOW ROOF SYSTEM
- FALL PROTECTION CATWALK SYSTEM, DELEGATED DESIGN BY OTHERS
- EXISTING VENT TO BE CAPPED IF NOT IN USE BELOW NEW COPPER (VIF)
- FALL PROTECTION CATWALK SYSTEM, DELEGATED DESIGN BY OTHERS
- EXISTING INTERNAL ROOF DRAIN TO DOWNSPOUT
- EXISTING DOWNSPOUT TO REMAIN (VIF WORKING CONDITION AND REPAIR AS REQUIRED)
- SKYLIGHT SEE SHEETS A-504 AND A-501.2
- EXISTING FLAG POLE, SEE STRCUTURAL SHEETS

1 ROOF TYPE 2 - SOUTH - TRANSVERSE  
1/2" = 1'-0"



2 ROOF TYPE 2 - SOUTH - PARTIAL TRANSVERSE SECTIONS  
1/2" = 1'-0"



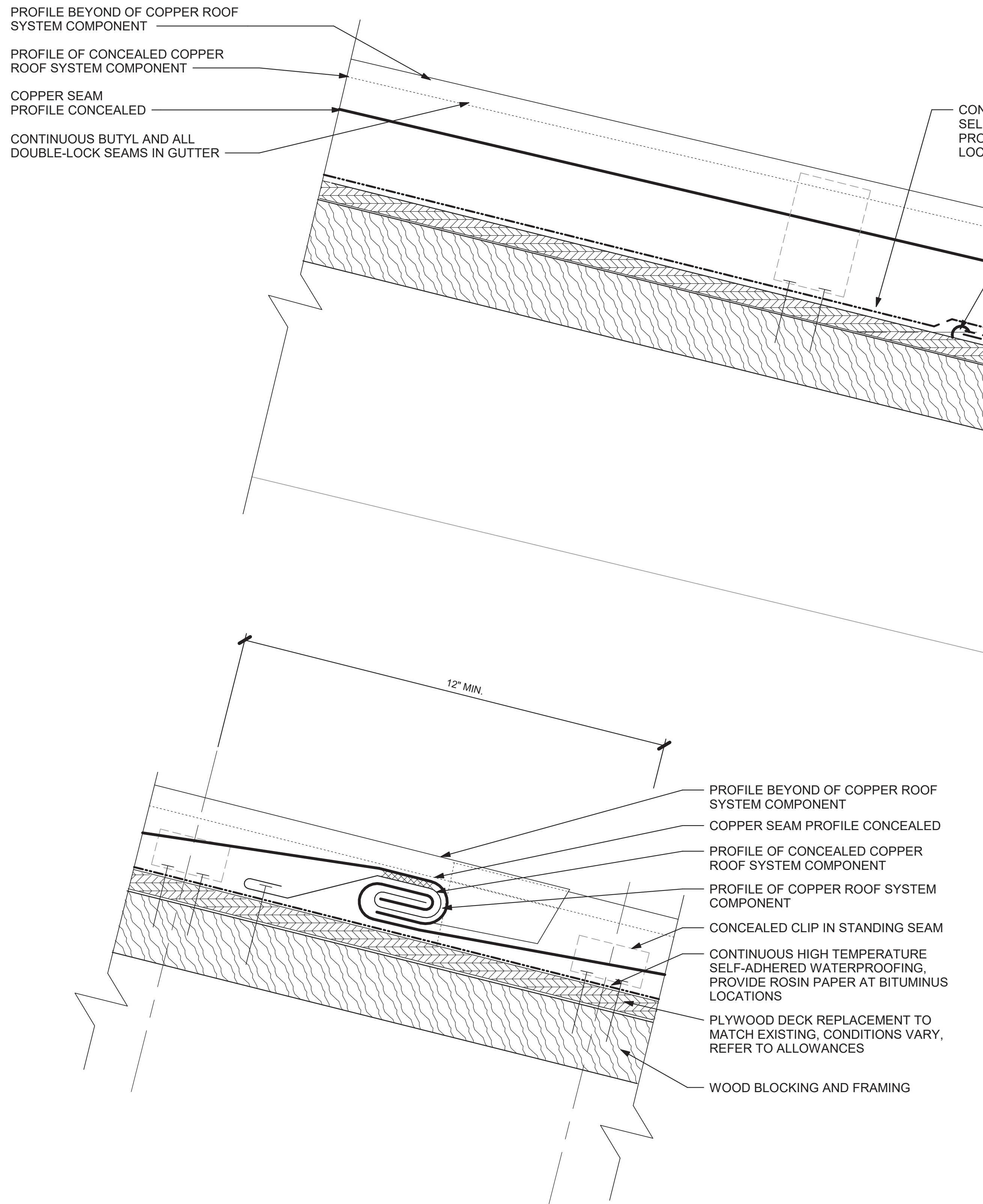
3 ROOF TYPE 2 - SOUTH - LONGITUDINAL SECTION  
1/2" = 1'-0"



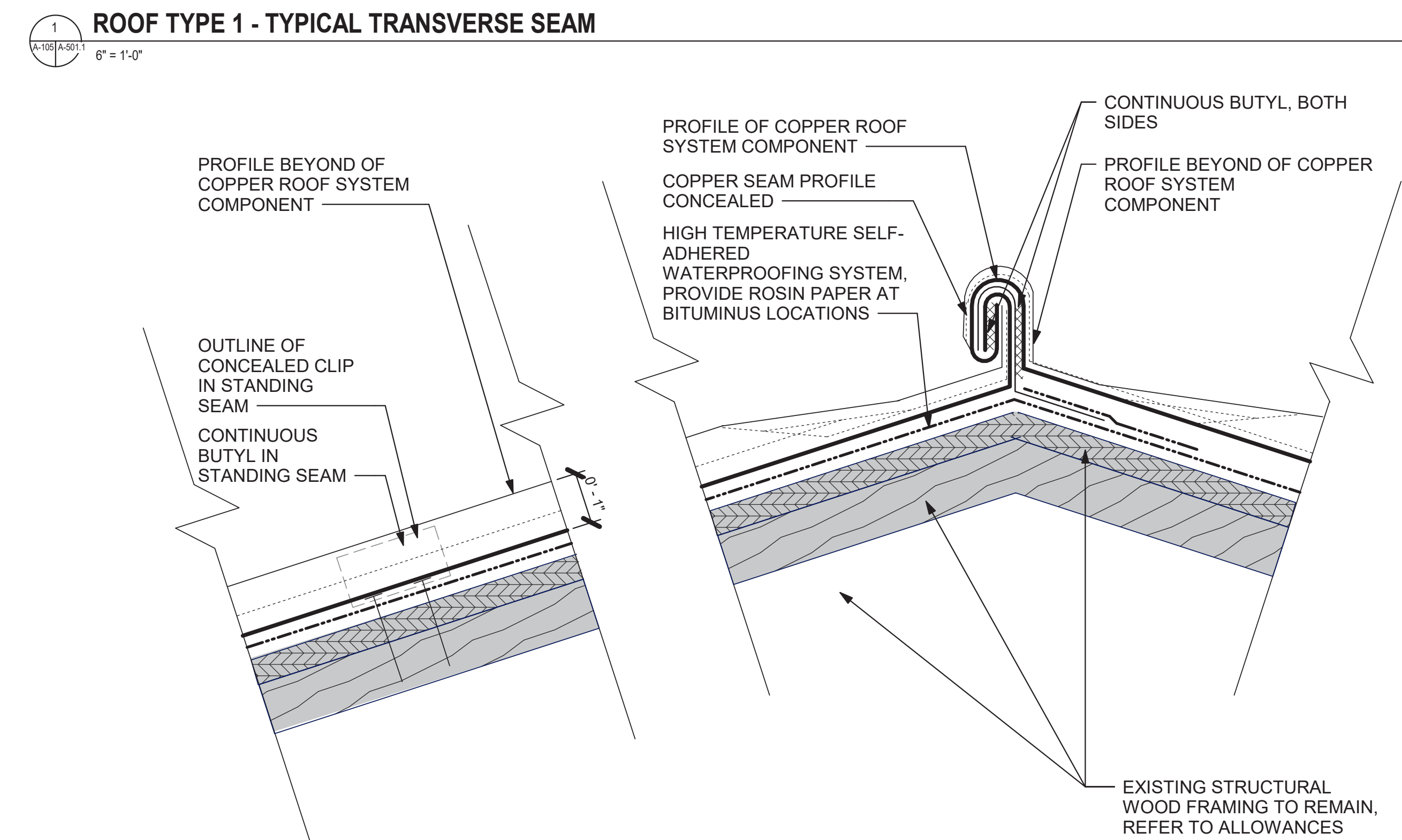




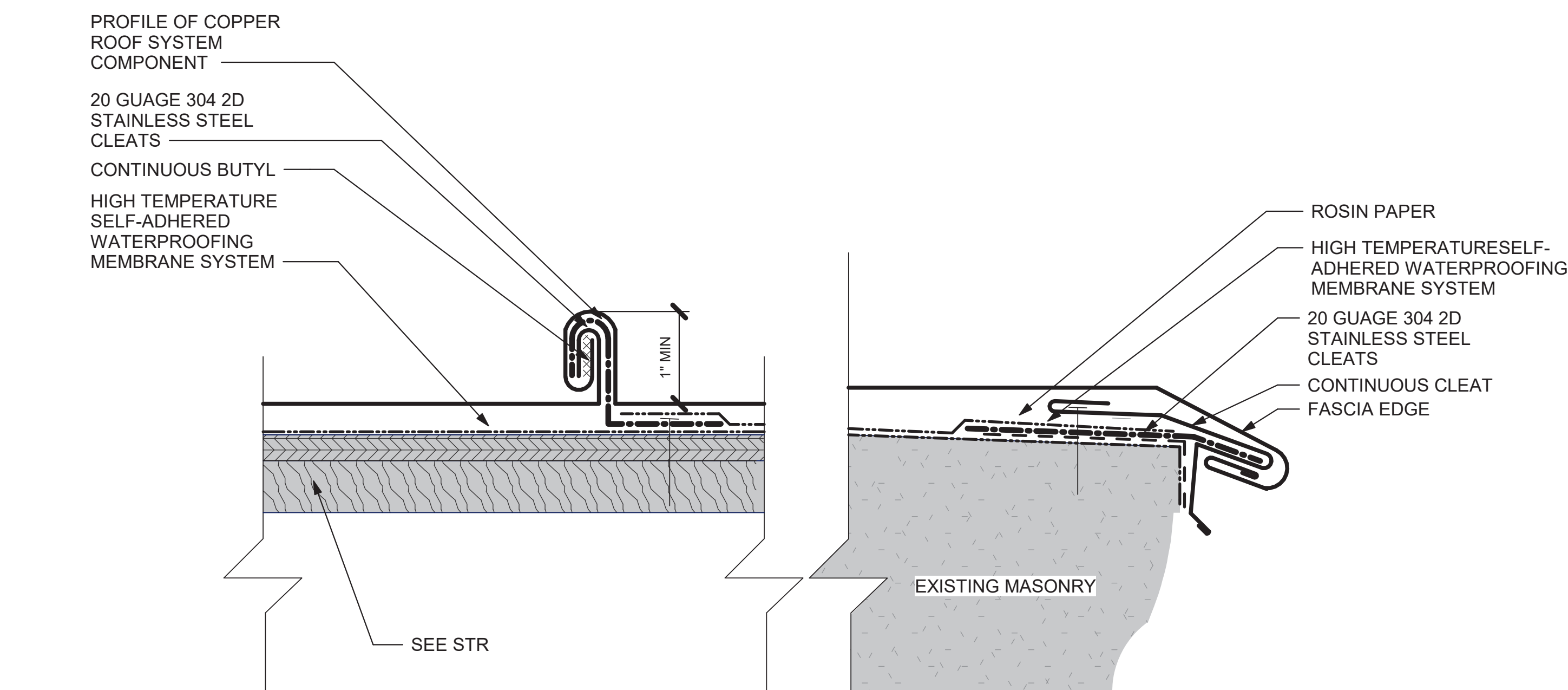
ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT AND NOT FOR ANY OTHER PURPOSE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED HEREON.



2  
6" = 1'-0"



3  
6" = 1'-0"



4  
6" = 1'-0"

## ROOF DETAIL LEGEND

	LOCATION LEVEL
	FASTENER, SIZE AND TYPE VARY PER LOCATION AND APPLICATION. SEE STRUCTURAL ENGINEERING DRAWINGS FOR REQUIREMENTS AND DETAILS
	ELEVATION NOTE
	PROFILE BEYOND OF COPPER ROOF SYSTEM COMPONENT
	COPPER SEAM PROFILE CONCEALED
	PROFILE OF COPPER ROOF SYSTEM COMPONENT
	PROFILE OF CONCEALED COPPER ROOF SYSTEM COMPONENT
	SOLDERED CONNECTION
	OUTLINE OF CONCEALED CLIP IN STANDING SEAM
	ROSIN PAPER
	#30 FELT PAPER
	SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM REINFORCEMENT DETAIL
	SEALANT PER MEMBRANE MANUFACTURER'S REQUIREMENTS
	BUTYL
	20 GAUGE 304 2D STAINLESS STEEL CLEATS
	PLYWOOD DECK REPLACEMENT TO MATCH EXISTING, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	EXISTING PLYWOOD DECK TO REMAIN, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	NEW WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	REINFORCE CONCRETE SUBSTRATE TO BE SLOPED TO ROOF DRAINS AND TAPERED AT CORNICE AND ROOF TERMINATION TO CREATE A BOX GUTTER, PREPARE AS REQUIRED FOR FULLY ADHERED LIQUID-APPLIED SEAMLESS WATERPROOFING MEMBRANE SYSTEM
	EXISTING WOOD BLOCKING AND FRAMING TO REMAIN, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	SHIM AS REQUIRED, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURE TO REMAIN FRAMING TO REMAIN, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURAL WOOD FRAMING TO REMAIN, SEE STRUCTURAL ENGINEERING DRAWINGS ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	CUT AND REPOINT MORTAR JOINTS AT CONCEALED MASONRY JOINTS, SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MASONRY REPAIR SCOPE
	EXISTING MASONRY TO REMAIN

## ROOF DETAIL GENERAL NOTES:

- RDG-1** SEE STRUCTURAL ENGINEERING AND MEMBRANE MANUFACTURER REQUIREMENTS FOR WIND UPLIFT AND COMPETENT CLADDING PERFORMANCE DESIGN REQUIREMENTS, FASTENERS, NEW STRUCTURAL FRAMING SCOPE AND REQUIREMENTS, REPAIRS AND REPLACEMENTS TO EXISTING WOOD DECK AND FRAMING AND OTHER RELATED SCOPE.
- RDG-2** EXISTING ROOF ELEMENTS ALL ROOFS TO REMAIN AND PROTECTED AND TIED INTO NEW WORK AS REQUIRED UNLESS OTHERWISE NOTED. RAISE EXISTING CURBS WITH 8" MIN. NEW BLOCKING AND ATTACHMENT TO MEET OR EXCEED DESIGN REQUIREMENTS FOR WIND UPLIFT. REPAIR EXISTING CODITION AS REQUIRED MODIFY AS REQUIRED.
- EMR** **EXISTING MASONRY REPAIR NOTES:**
- EMR-1** CUT AND REPOINT EXISTING EXPOSED AND CONCEALED MASONRY JOINTS, DEPTH TO BE 2.5 TIMES THE WIDTH OF THE JOINT. SEE ARCHITECTURAL ELEVATIONS FOR MASONRY REPAIR SCOPE NOT INDICATED IN THE ROOF REPAIR AND REPLACEMENT DESIGN.
- EW** **EXISTING/ORIGINAL T&G WOOD ROOF DECK AND FRAMING REPAIR NOTES:**
- EW-1** PREVENT DAMAGE TO THE EXISTING ASSEMBLIES TO REMAIN. ALL PLYWOOD REQUIRED TO BE REMOVED AND REPLACED TO FACILITATE WORK IS REQUIRED TO BE REMOVED BY THE ENTIRE INTACT SHEET INSTALLED AT THOSE LOCATIONS, NOT CUT. PLYWOOD TO BE REPLACED IN-KIND TO BE FLUSH WITH ADJACENT SURFACES.
- EW-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD TO MATCH EXISTING. ASSUME THICKNESS RANGE FROM 3/8" TO 1/4" FOR A SINGLE LAYER.
- WD** **WOOD DECK AND FRAMING REPLACEMENT NOTES:**
- WD-1** FIT PLYWOOD AT ALL PENETRATIONS AND PROJECTIONS. PLYWOOD SHALL BE SECURED WITH JOINTS NO GREATER THAN 1/4". FILL ALL JOINTS AND GAPS WITH SEALANT PER MANUFACTURER REQUIREMENTS. MEMBRANE TO BE FULLY SUPPORTED. STRIP ALL PLYWOOD JOINTS WITH MANUFACTURER DETAIL REINFORCEMENT PER MANUFACTURER REQUIREMENTS.
- WD-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD REPLACEMENT DUE TO UNCOVERED DAMAGE TO EXISTING PLYWOOD. ASSUME THICKNESS RANGE FROM 3/8" TO 1/4" FOR A SINGLE LAYER.
- RLSW** **LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM NOTES:**
- SAWM** **SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM NOTES:**
- RS** **ROOF SUBSTRATE REPAIR AND REPLACEMENT:**
- RS-1** #30 FELT PAPER IS BELOW ALL EXPOSED COPPER, UNLESS OTHERWISE NOTED.
- RS-2** RED ROSIN PAPER IS TO BE INSTALLED AS A SHEET SEPARATION BETWEEN NEW AND EXISTING SYSTEMS AND INCLUDING WOOD SUBSTRATES MASONRY, HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT AND OTHER WATERPROOFING MEMBRANES.
- RS-3** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS, ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION. RED ROSIN PAPER IS TO BE INSTALLED AS A SEPERATION SHEET BETWEEN SELF ADHERED BITUMINOUS UNDERLAYMENT AND COPPER FLASHING
- C** **COPPER NOTES:**
- C-1** COPPER IS TO BE 20oz
- C-2** STANDING SEAMS ARE TO BE DOUBLE-LOCK 1" TALL WITH BUTYL SEALANT
- C-3** COPPER CLEATS ARE TO BE 2" WIDE AND ARE SPACED AT ALL SEAMS 12" MIN., UNLESS OTHERWISE NOTED
- C-4** EXPANSION JOINT SPACING:  
VERTICAL: 15'-0"  
HORIZONTAL: 15'-0"

RAYMOND  
316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7986  
CO#46 C4282, LICENSE 53143

MUTER CONSTRUCTION  
111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.6330

Dewberry  
2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9939

SPEWEIK  
Preservation Consultants, Inc.  
3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449

STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDENSON STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SC#:  
23-26138-01A

DESIGNED BY: GJC  
SENIOR REVIEW: GJC  
DRAWN BY: GJC

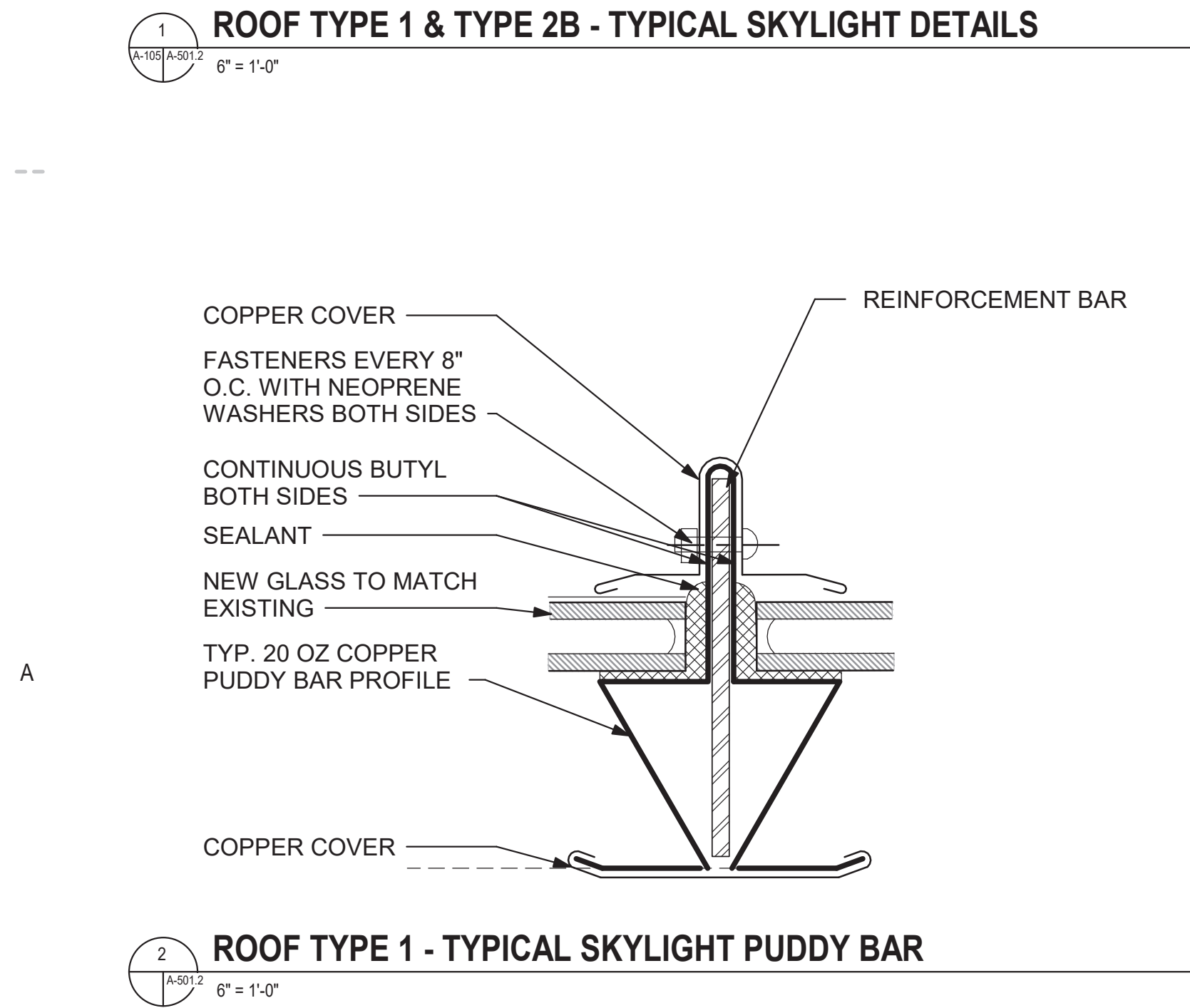
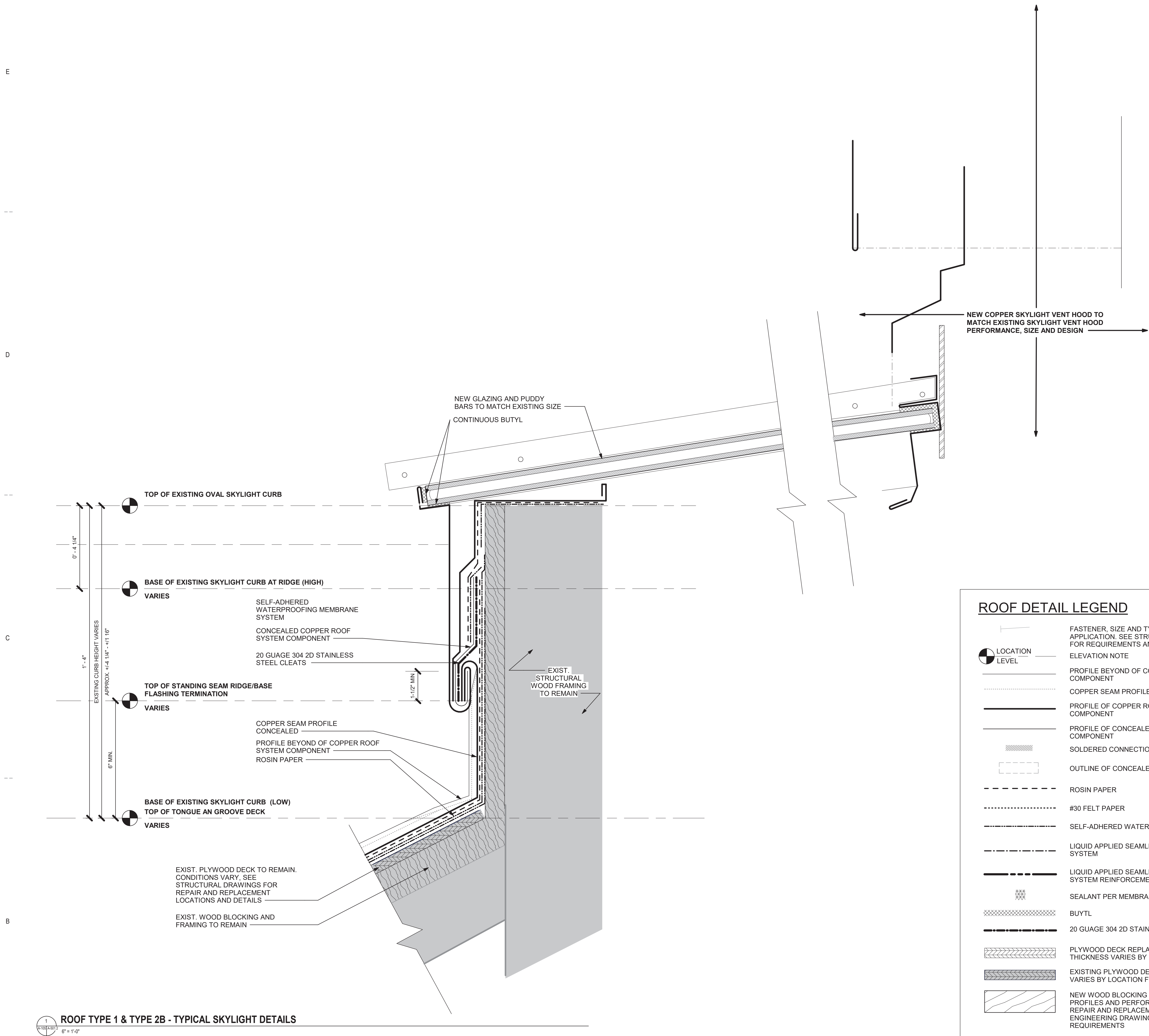
SHEET TITLE:  
ROOF TYPE 1 -  
TYPICAL DETAILS

SHEET NO. PROJ. NO.  
RAL1188.001

A-501.1



ALL DRAWINGS, SPECIFICATIONS, AND NOTES ARE THE PROPERTY OF RAYMOND. THESE MATERIALS ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF RAYMOND, NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF RAYMOND, NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



#### ROOF DETAIL LEGEND

	LOCATION LEVEL
	PROFILE BEYOND OF COPPER ROOF SYSTEM COMPONENT
	COPPER SEAM PROFILE CONCEALED
	PROFILE OF COPPER ROOF SYSTEM COMPONENT
	PROFILE OF CONCEALED COPPER ROOF SYSTEM COMPONENT
	SOLDERED CONNECTION
	OUTLINE OF CONCEALED CLIP IN STANDING SEAM
	ROSIN PAPER
	#30 FELT PAPER
	SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM REINFORCEMENT DETAIL
	SEALANT PER MEMBRANE MANUFACTURER'S REQUIREMENTS
	BUTYL
	20 GAUGE 304 2D STAINLESS STEEL CLEATS
	PLYWOOD DECK REPLACEMENT TO MATCH EXISTING, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	EXISTING PLYWOOD DECK TO REMAIN, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	NEW WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS
	WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	REINFORCE CONCRETE SUBSTRATE TO BE SLOPED TO ROOF DRAINS AND TAPERED AT CORNICE AND ROOF TERMINATION TO CREATE A BOX GUTTER, PREPARE AS REQUIRED FOR FULLY ADHERED LIQUID-APPLIED SEAMLESS WATERPROOFING MEMBRANE SYSTEM
	EXISTING WOOD BLOCKING AND FRAMING TO REMAIN, SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	SHIM AS REQUIRED, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURE TO REMAIN FRAMING TO REMAIN, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURAL WOOD FRAMING TO REMAIN, SEE STRUCTURAL ENGINEERING DRAWINGS ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	CUT AND REPOINT MORTAR JOINTS AT CONCEALED MASONRY JOINTS, SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MASONRY REPAIR SCOPE
	EXISTING MASONRY TO REMAIN

#### ROOF DETAIL GENERAL NOTES:

- RDG-1** SEE STRUCTURAL ENGINEERING AND MEMBRANE MANUFACTURER REQUIREMENTS FOR WIND UPLIFT AND COMPETENT CLADDING PERFORMANCE DESIGN REQUIREMENTS, FASTENERS, NEW STRUCTURAL FRAMING SCOPE AND REQUIREMENTS, REPAIRS AND REPLACEMENTS TO EXISTING WOOD DECK AND FRAMING AND OTHER RELATED SCOPE.
- RDG-2** EXISTING ROOF ELEMENTS ALL ROOFS TO REMAIN AND PROTECTED AND TIED INTO NEW WORK AS REQUIRED UNLESS OTHERWISE NOTED, RAISE EXISTING CURBS WITH 8" MIN. NEW BLOCKING AND ATTACHMENT TO MEET OR EXCEED DESIGN REQUIREMENTS FOR WIND UPLIFT, REPAIR EXISTING CODITION AS REQUIRED MODIFY AS REQUIRED.
- EMR** **EXISTING MASONRY REPAIR NOTES:**
- EMR-1** CUT AND REPOINT EXISTING EXPOSED AND CONCEALED MASONRY JOINTS, DEPTH TO BE 2.5 TIMES THE WIDTH OF THE JOINT. SEE ARCHITECTURAL ELEVATIONS FOR MASONRY REPAIR SCOPE NOT INDICATED IN THE ROOF REPAIR AND REPLACEMENT DESIGN.
- EW** **EXISTING/ORIGINAL T&G WOOD ROOF DECK AND FRAMING REPAIR NOTES:**
- EW-1** PREVENT DAMAGE TO THE EXISTING ASSEMBLIES TO REMAIN, ALL PLYWOOD REQUIRED TO BE REMOVED AND REPLACED TO FACILITATE WORK IS REQUIRED TO BE REMOVED BY THE ENTIRE INTACT SHEET INSTALLED AT THOSE LOCATIONS, NOT CUT, PLYWOOD TO BE REPLACED IN-KIND TO BE FLUSH WITH ADJACENT SURFACES.
- EW-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD TO MATCH EXISTING, ASSUME THICKNESS RANGE FROM 3/8" TO 3/4" FOR A SINGLE LAYER.
- WD** **WOOD DECK AND FRAMING REPLACEMENT NOTES:**
- WD-1** FIT PLYWOOD AT ALL PENETRATIONS AND PROJECTIONS, PLYWOOD SHALL BE SECURED WITH JOINTS NO GREATER THAN 1/4". FILL ALL JOINTS AND GAPS WITH SEALANT PER MANUFACTURER REQUIREMENTS, MEMBRANE TO BE FULLY SUPPORTED, STRIP ALL PLYWOOD JOINTS WITH MANUFACTURER DETAIL REINFORCEMENT PER MANUFACTURER REQUIREMENTS.
- WD-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD REPLACEMENT DUE TO UNCOVERED DAMAGE TO EXISTING PLYWOOD, ASSUME THICKNESS RANGE FROM 3/8" TO 3/4" FOR A SINGLE LAYER.
- RLSW** **LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM NOTES:**
- SAWM** **SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM NOTES:**
- RS** **ROOF SUBSTRATE REPAIR AND REPLACEMENT:**
- RS-1** #30 FELT PAPER IS BELOW ALL EXPOSED COPPER, UNLESS OTHERWISE NOTED.
- RS-2** RED ROSIN PAPER IS TO BE INSTALLED AS A SHEET SEPERATION BETWEEN NEW AND EXISTING SYSTEMS AND INCLUDING WOOD SUBSTRATES, MASONRY, HIGH TEMPERATIRE SELF-ADHERED BITUMOUS UNDERLAYMENT AND OTHER WATERPROOFING MEMBRANES.
- RS-3** HIGH TEMPERATURE SELF-ADHERED BITUMOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS, ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION, RED ROSIN PAPER IS TO BE INSTALLED AS A SEPERATION SHEET BETWEEN SELF ADHERED BITUMOUS UNDERLAYMENT AND COPPER FLASHING.
- C** **COPPER NOTES:**
- C-1** COPPER IS TO BE 20oz
- C-2** STANDING SEAMS ARE TO BE DOUBLE-LOCK 1" TALL WITH BUTYL SEALANT
- C-3** COPPER CLEATS ARE TO BE 2" WIDE AND ARE SPACED AT ALL SEAMS 12" MIN., UNLESS OTHERWISE NOTED
- C-4** EXPANSION JOINT SPACING:  
VERTICAL: 15'-0"  
HORIZONTAL: 15'-0"



RAYMOND

316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7986  
COAP C4261, LICENSE 53143

**MUTER CONSTRUCTION**

111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.6330

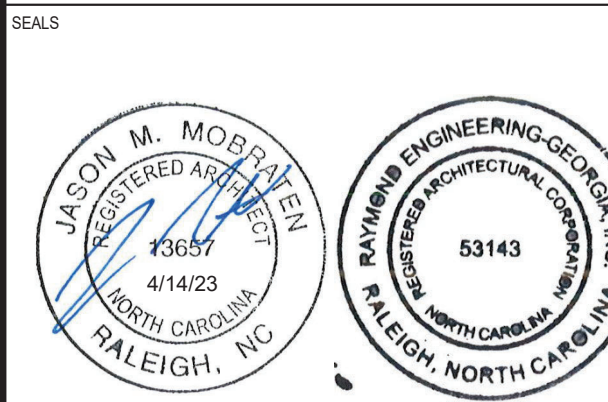


2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9939

**SPEWEIK**

Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.856.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

EAST EDITION STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SCO#:  
23-26138-01A

DESIGNED BY: GJC  
SENIOR REVIEW: GJC  
DRAWN BY: GJC

SHEET TITLE:  
**ROOF TYPE 1 -  
TYPICAL OVAL  
SKYLIGHT DETAILS**

SHEET NO. PROJ. NO.  
RAL1188.001

A-501.2





RAYMOND

316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7986  
CO#P C4282, LICENSE 53143

**MUTER CONSTRUCTION**

111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 28797  
919.404.6330

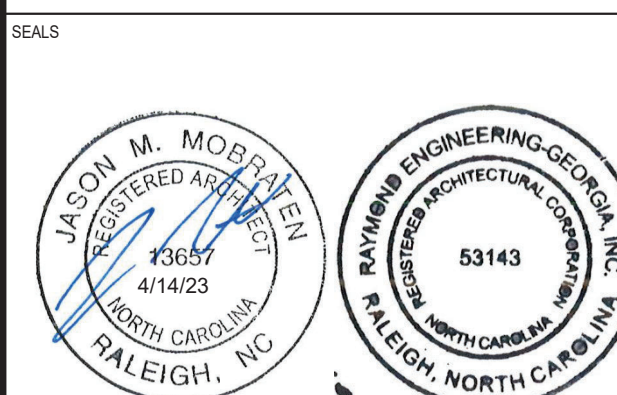


2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9939

**SPEWEIK**

Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.656.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDITION STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

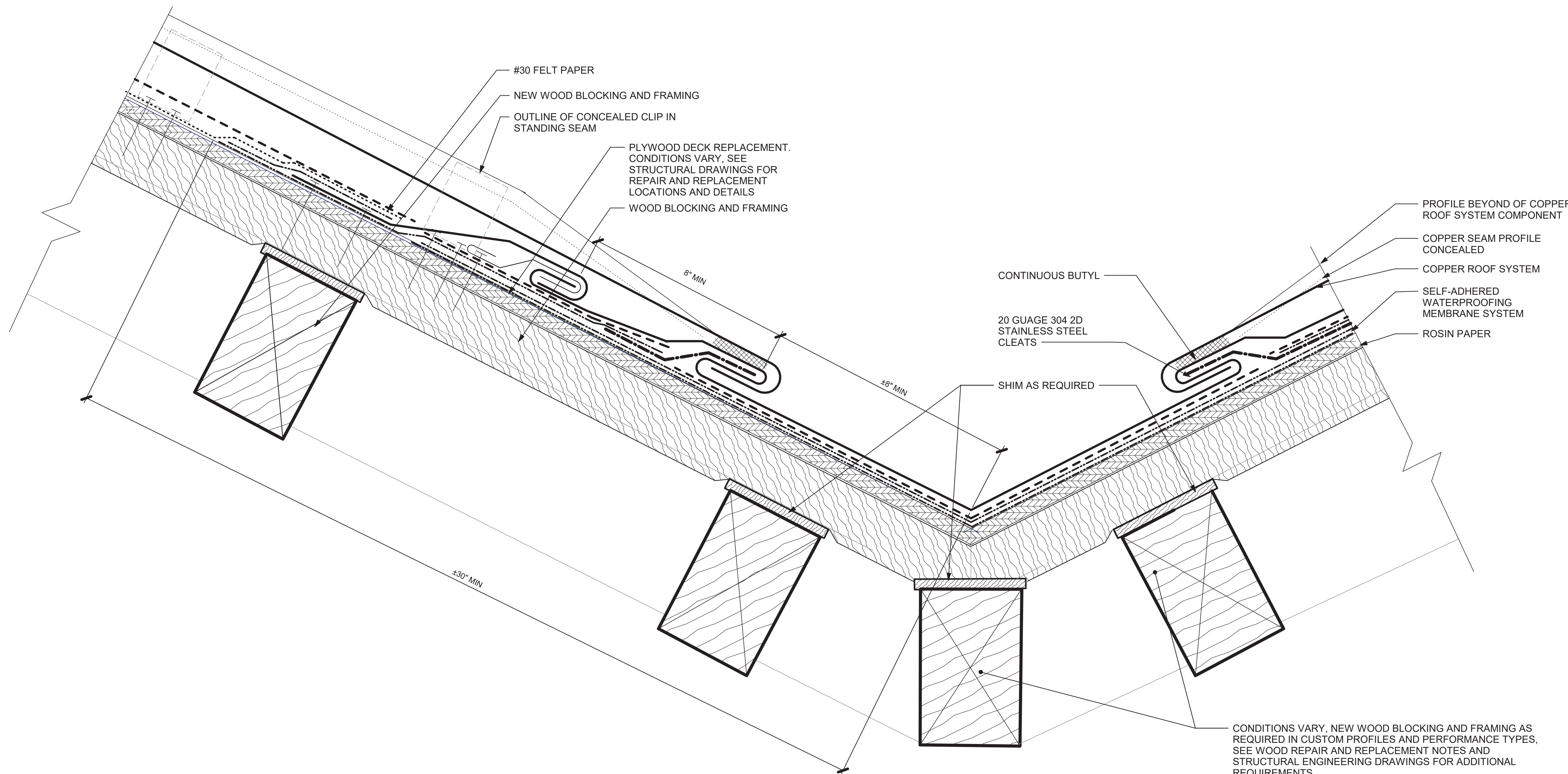
SCO#:  
23-26138-01A

DESIGNED BY: GJC  
SENIOR REVIEW: J/W  
DRAWN BY: GJC

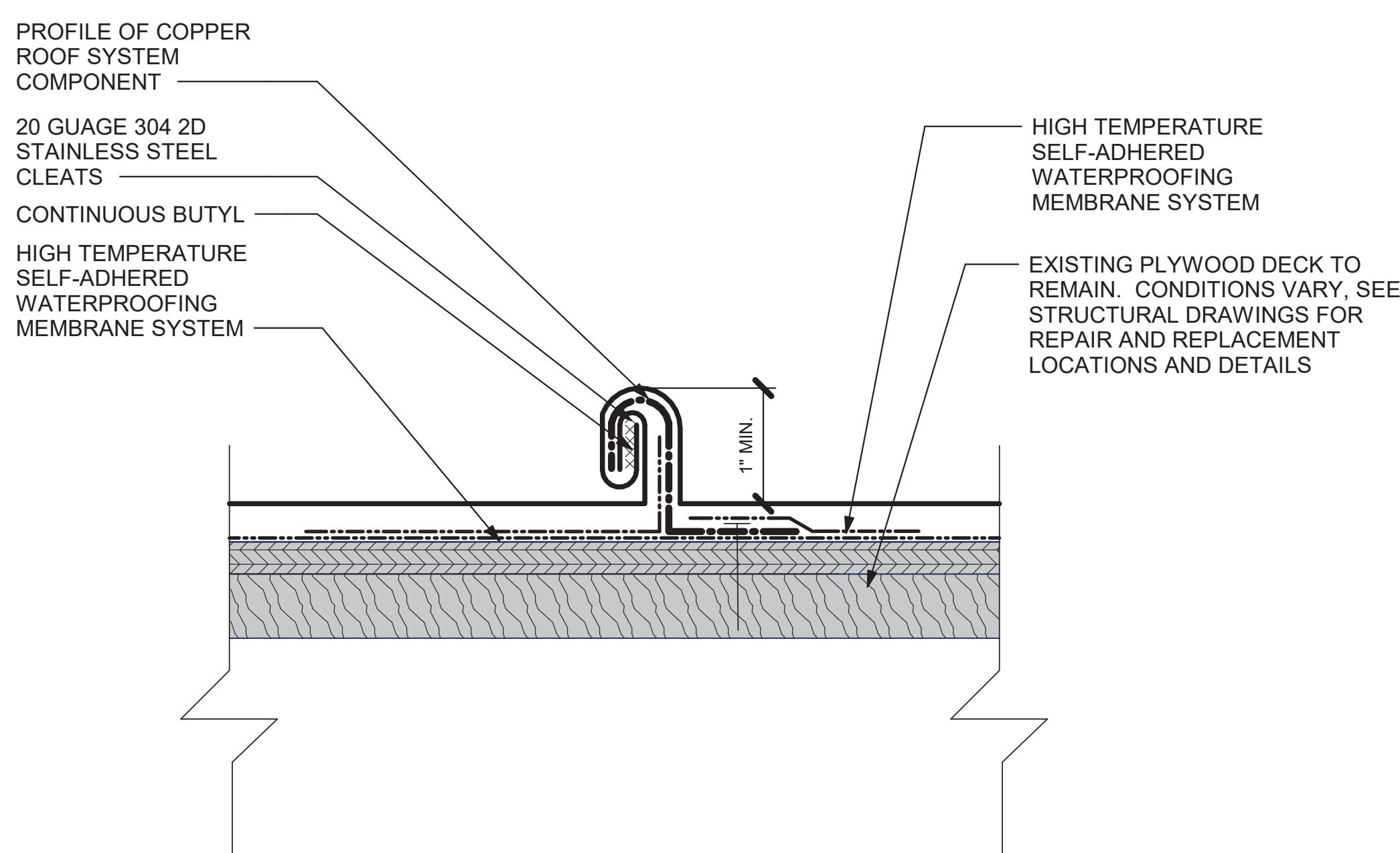
SHEET TITLE:  
ROOF TYPE 1 AND 2 -  
TYPICAL DETAILS

SHEET NO. PROJ. NO.  
RA1188.001

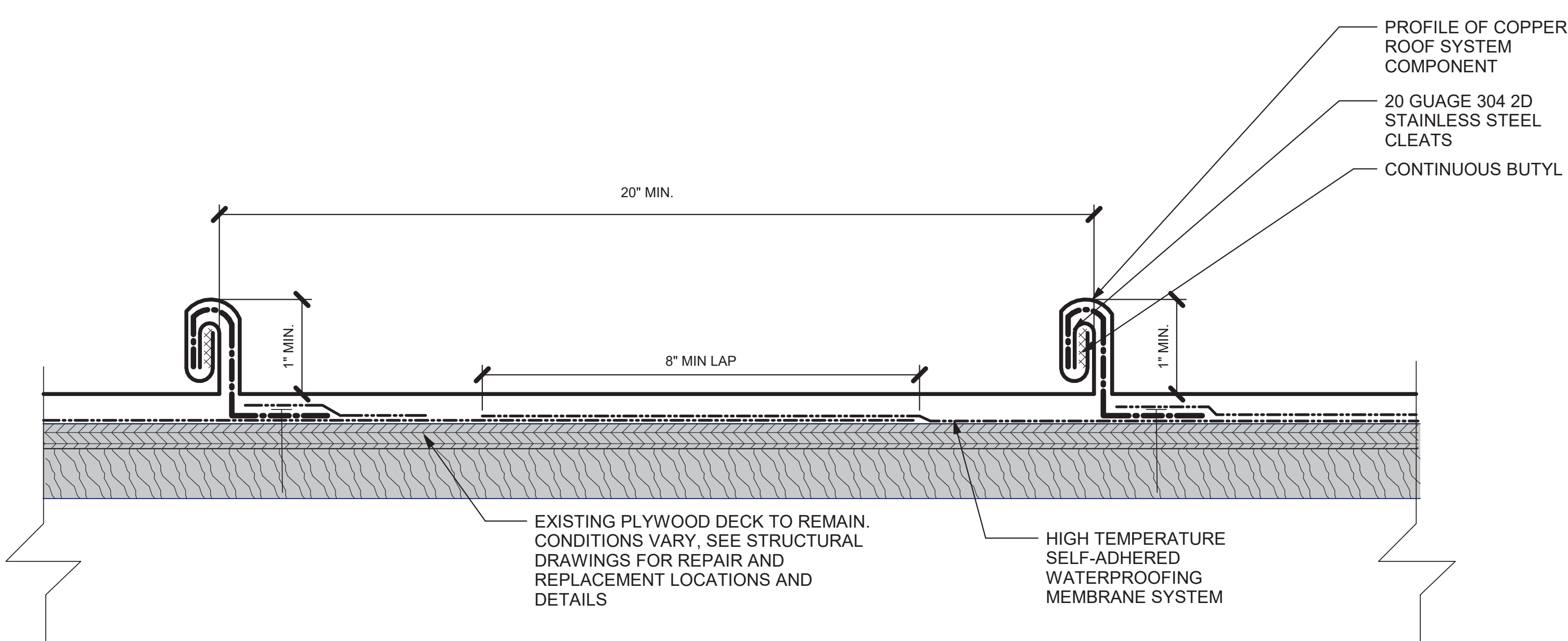
A-501.3



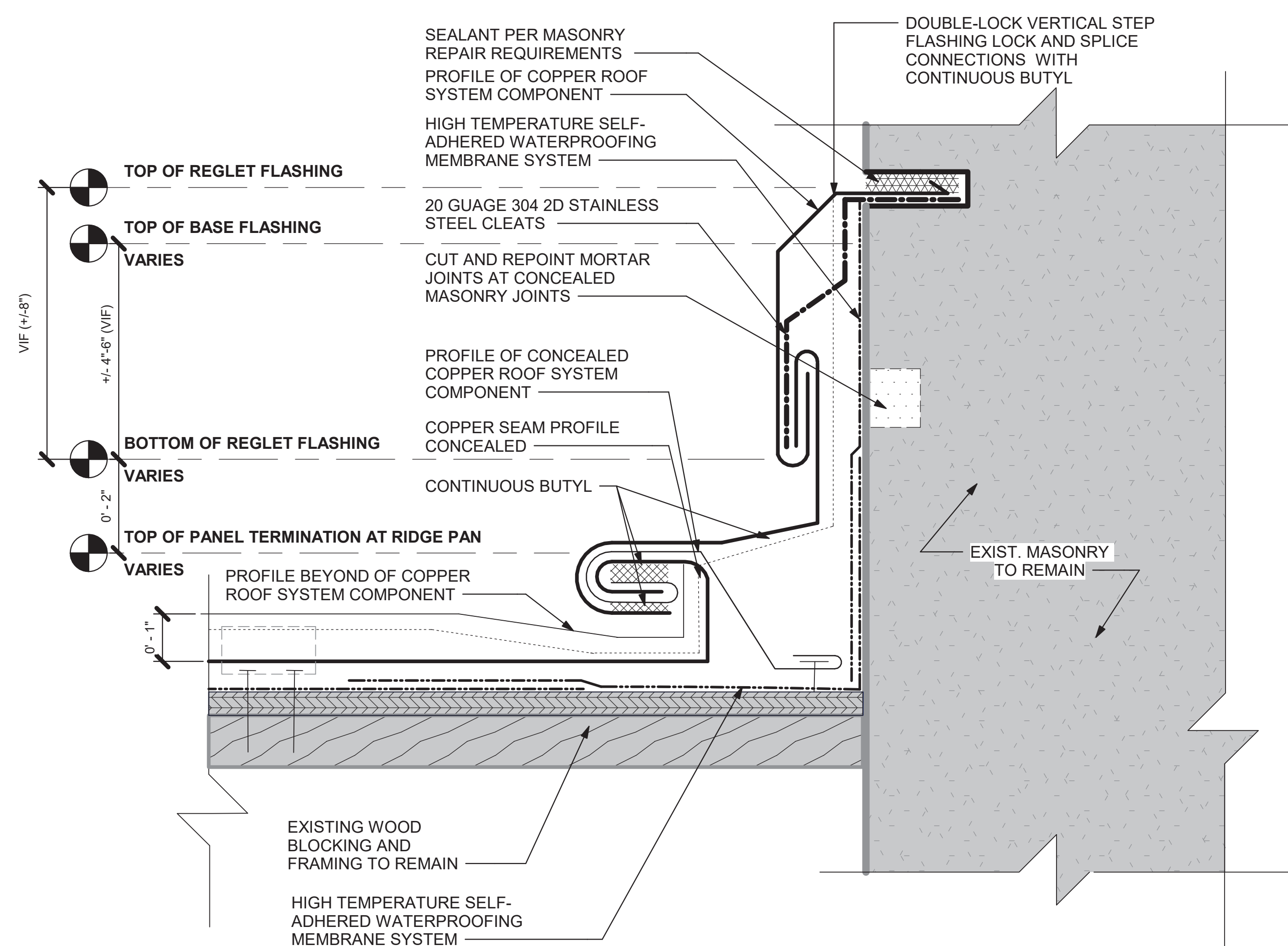
ROOF TYPE 1 AND 2 - TYPICAL VALLEY FLASHING



ROOF TYPE 1 AND 2 - TYPICAL BATTEN CAP DETAILS



ROOF TYPE 1 AND 2 - TYPICAL STANDING SEAM DETAILS



ROOF TYPE 1 AND 2 - TYPICAL BASE FLASHING AT MASONRY DETAIL

### ROOF DETAIL LEGEND

FASTENER, SIZE AND TYPE VARY PER LOCATION AND APPLICATION. SEE STRUCTURAL ENGINEERING DRAWINGS FOR REQUIREMENTS AND DETAILS	
LOCATION	
LEVEL	
ELEVATION NOTE	
PROFILE BEYOND OF COPPER ROOF SYSTEM COMPONENT	
COPPER SEAM PROFILE CONCEALED	
PROFILE OF COPPER ROOF SYSTEM COMPONENT	
PROFILE OF CONCEALED COPPER ROOF SYSTEM COMPONENT	
SOLDERED CONNECTION	
OUTLINE OF CONCEALED CLIP IN STANDING SEAM	
ROBIN PAPER	
#30 FELT PAPER	
SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM	
LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM	
LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM REINFORCEMENT DETAIL	
SEALANT PER MEMBRANE MANUFACTURER'S REQUIREMENTS	
BUYTL	
20 GAUGE 304 2D STAINLESS STEEL CLEATS	
PLYWOOD DECK REPLACEMENT TO MATCH EXISTING, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"	
EXISTING PLYWOOD DECK TO REMAIN, THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"	
NEW WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS	
WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS	
REINFORCE CONCRETE SUBSTRATE TO BE SLOPED TO ROOF DRAINS AND TAPERED AT CORNICE AND ROOF TERMINATION TO CREATE A BOX GUTTER. PREPARE AS REQUIRED FOR FULLY ADHERED LIQUID-APPLIED SEAMLESS WATERPROOFING MEMBRANE SYSTEM	
EXISTING WOOD BLOCKING AND FRAMING TO REMAIN. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS	
SHIM AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS	
EXISTING STRUCTURE TO REMAIN FRAMING TO REMAIN. SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS	
EXISTING STRUCTURAL WOOD FRAMING TO REMAIN. SEE STRUCTURAL ENGINEERING DRAWINGS ADDITIONAL SCOPE AND REPAIR REQUIREMENTS	
CUT AND REPOINT MORTAR JOINTS AT CONCEALED MASONRY JOINTS. SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MASONRY REPAIR SCOPE	
EXISTING MASONRY TO REMAIN	

### ROOF DETAIL GENERAL NOTES:

- RDG-1** SEE STRUCTURAL ENGINEERING AND MEMBRANE MANUFACTURER REQUIREMENTS FOR WIND UPLIFT AND COMPETENT CLADDING PERFORMANCE DESIGN REQUIREMENTS, FASTENERS, NEW STRUCTURAL FRAMING SCOPE AND REQUIREMENTS, REPAIRS AND REPLACEMENTS TO EXISTING WOOD DECK AND FRAMING AND OTHER RELATED SCOPE.
- RDG-2** EXISTING ROOF ELEMENTS ALL ROOFS TO REMAIN AND PROTECTED AND TIED INTO NEW WORK AS REQUIRED UNLESS OTHERWISE NOTED. RAISE EXISTING CURBS WITH 8" MIN. NEW BLOCKING AND ATTACHMENT TO MEET OR EXCEED DESIGN REQUIREMENTS FOR WIND UPLIFT. REPAIR EXISTING CONDITION AS REQUIRED MODIFY AS REQUIRED.
- EMR** **EXISTING MASONRY REPAIR NOTES:**
- EMR-1** CUT AND REPOINT EXISTING EXPOSED AND CONCEALED MASONRY JOINTS. DEPTH TO BE 2.5 TIMES THE WIDTH OF THE JOINT. SEE ARCHITECTURAL ELEVATIONS FOR MASONRY REPAIR SCOPE NOT INDICATED IN THE ROOF REPAIR AND REPLACEMENT DESIGN.
- EW** **EXISTING/ORIGINAL T&G WOOD ROOF DECK AND FRAMING REPAIR NOTES:**
- EW-1** PREVENT DAMAGE TO THE EXISTING ASSEMBLIES TO REMAIN. ALL PLYWOOD REQUIRED TO BE REMOVED AND REPLACED TO FACILITATE WORK IS REQUIRED TO BE REMOVED BY THE ENTIRE INTACT SHEET INSTALLED AT THOSE LOCATIONS. NOT CUT. PLYWOOD TO BE REPLACED IN-KIND TO BE FLUSH WITH ADJACENT SURFACES.
- EW-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD TO MATCH EXISTING. ASSUME THICKNESS RANGE FROM 3/8" TO 1/2" FOR A SINGLE LAYER.
- WD** **WOOD DECK AND FRAMING REPLACEMENT NOTES:**
- WD-1** FIT PLYWOOD AT ALL PENETRATIONS AND PROJECTIONS. PLYWOOD SHALL BE SECURED WITH JOINTS NO GREATER THAN 1/4". FILL ALL JOINTS AND GAPS WITH SEALANT PER MANUFACTURER REQUIREMENTS. MEMBRANE TO BE FULLY SUPPORTED. STRIP ALL PLYWOOD JOINTS WITH MANUFACTURER DETAIL REINFORCEMENT PER MANUFACTURER REQUIREMENTS.
- WD-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD REPLACEMENT DUE TO UNCOVERED DAMAGE TO EXISTING PLYWOOD. ASSUME THICKNESS RANGE FROM 3/8" TO 1/2" FOR A SINGLE LAYER.
- RLSW** **LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM NOTES:**

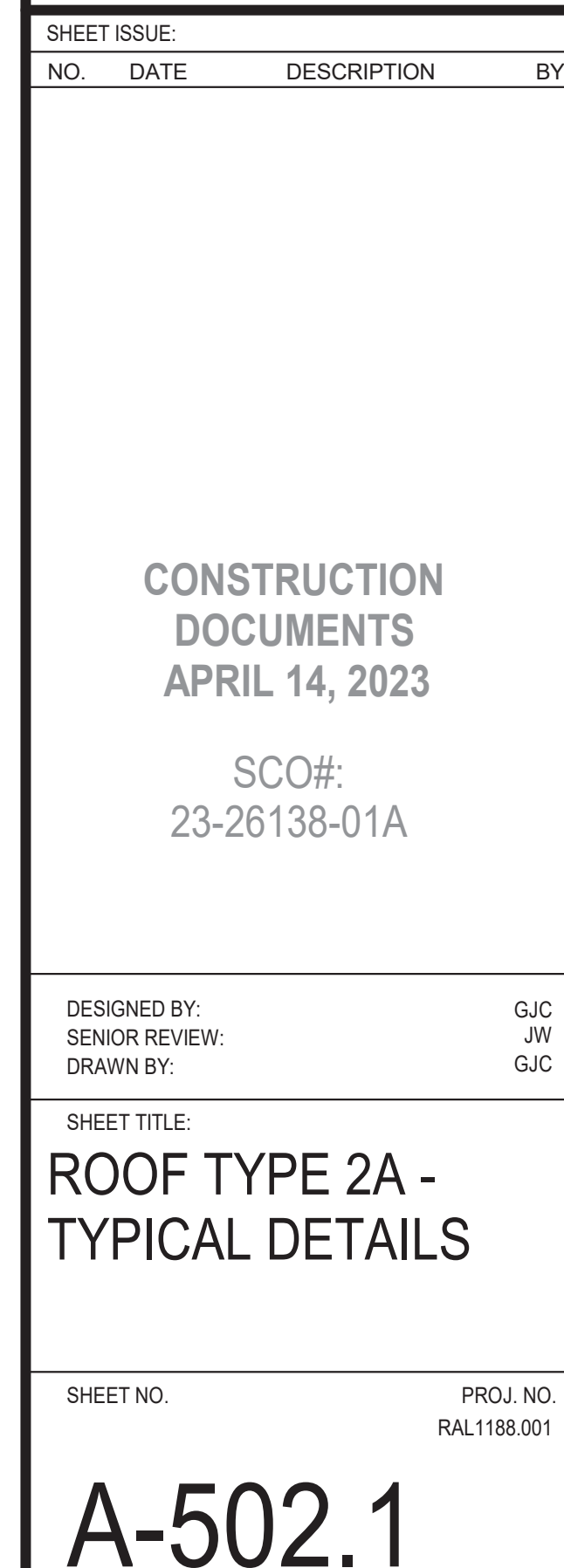
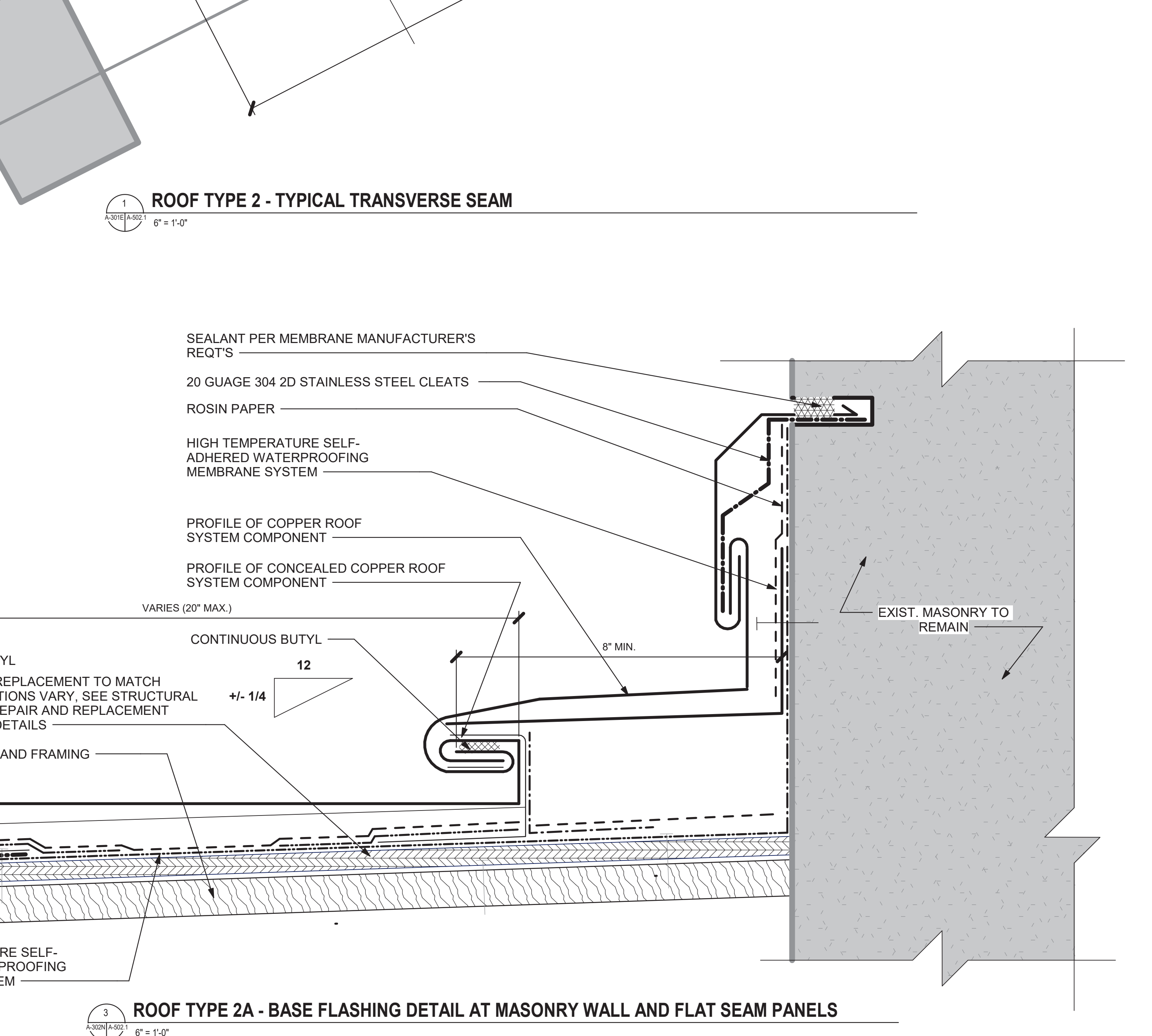
### SAWM SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM NOTES:

- RS** **ROOF SUBSTRATE REPAIR AND REPLACEMENT:**
- RS-1** #30 FELT PAPER IS BELOW ALL EXPOSED COPPER, UNLESS OTHERWISE NOTED.
- RS-2** RED ROSIN PAPER IS TO BE INSTALLED AS A SHEET SEPARATION BETWEEN NEW AND EXISTING SYSTEMS AND INCLUDING WOOD SUBSTRATES, MASONRY, HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT AND OTHER WATERPROOFING MEMBRANES.
- RS-3** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS, ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION. RED ROSIN PAPER IS TO BE INSTALLED AS A SEPARATION SHEET BETWEEN SELF-ADHERED BITUMINOUS UNDERLAYMENT AND COPPER FLASHING
- C** **COPPER NOTES:**
- C-1** COPPER IS TO BE 20oz
- C-2** STANDING SEAMS ARE TO BE DOUBLE-LOCK 1" TALL WITH BUTYL SEALANT
- C-3** COPPER CLEATS ARE TO BE 2" WIDE AND ARE SPACED AT ALL SEAMS 12" MIN., UNLESS OTHERWISE NOTED
- C-4** EXPANSION JOINT SPACING:  
VERTICAL: 15'-0"  
HORIZONTAL: 15'-0"

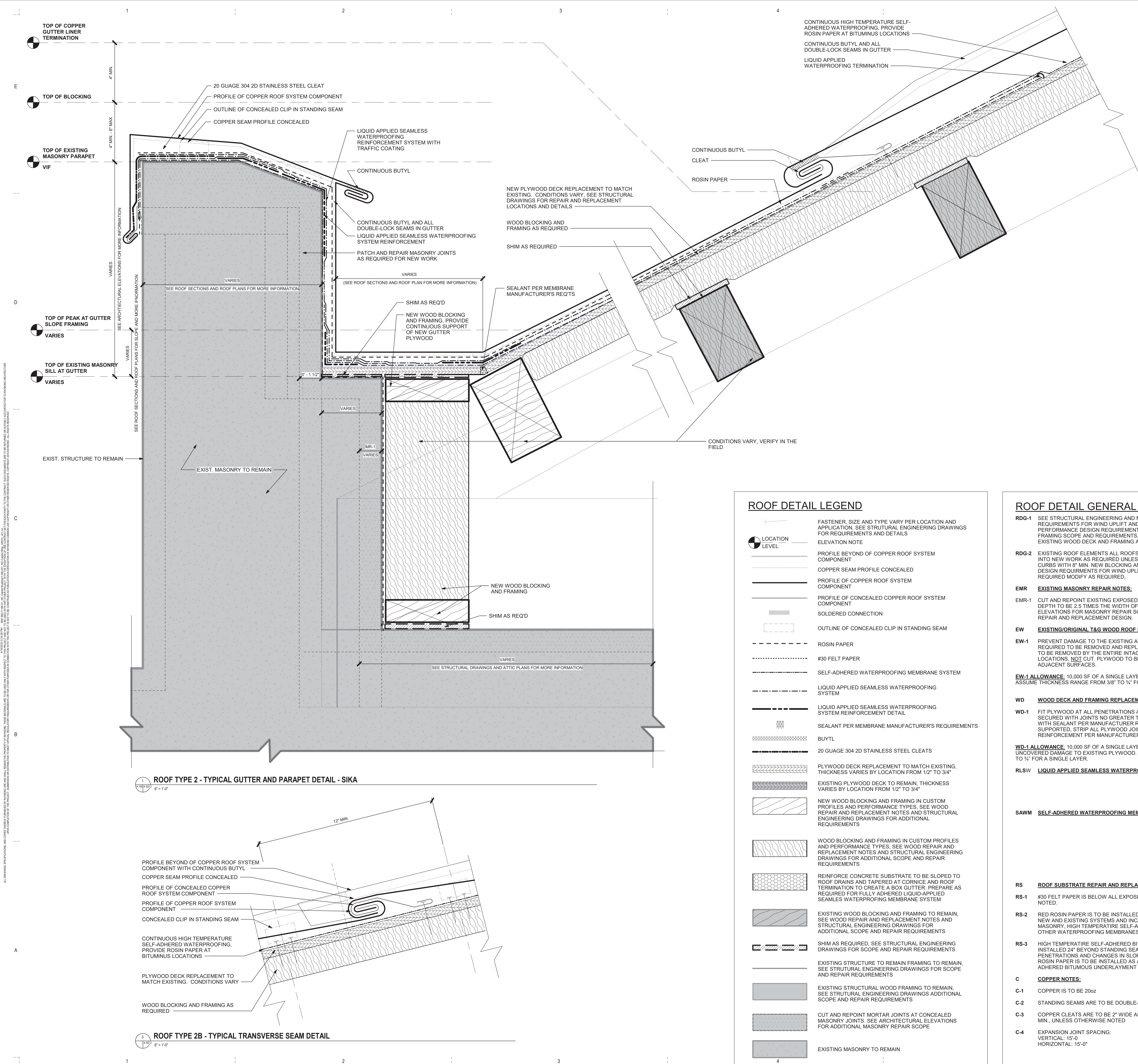












RAYMOND

316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7986  
CO#46 C4282, LICENSE 53143

**MUTER CONSTRUCTION**

111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.6330

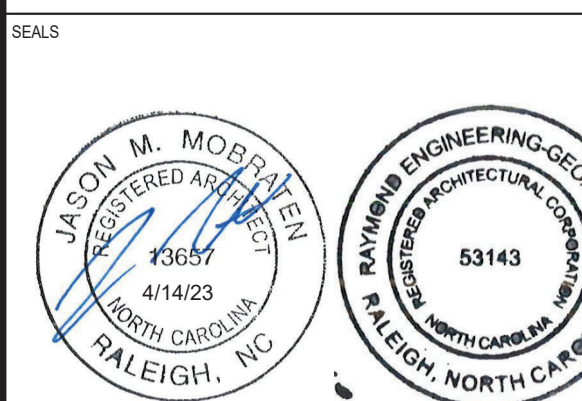


2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.881.9539

**SPEWEIK**

Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.858.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDEN ON STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SCO#:  
23-26138-01A

DESIGNED BY: GJC  
SENIOR REVIEW: GJC  
DRAWN BY: JWW GJC

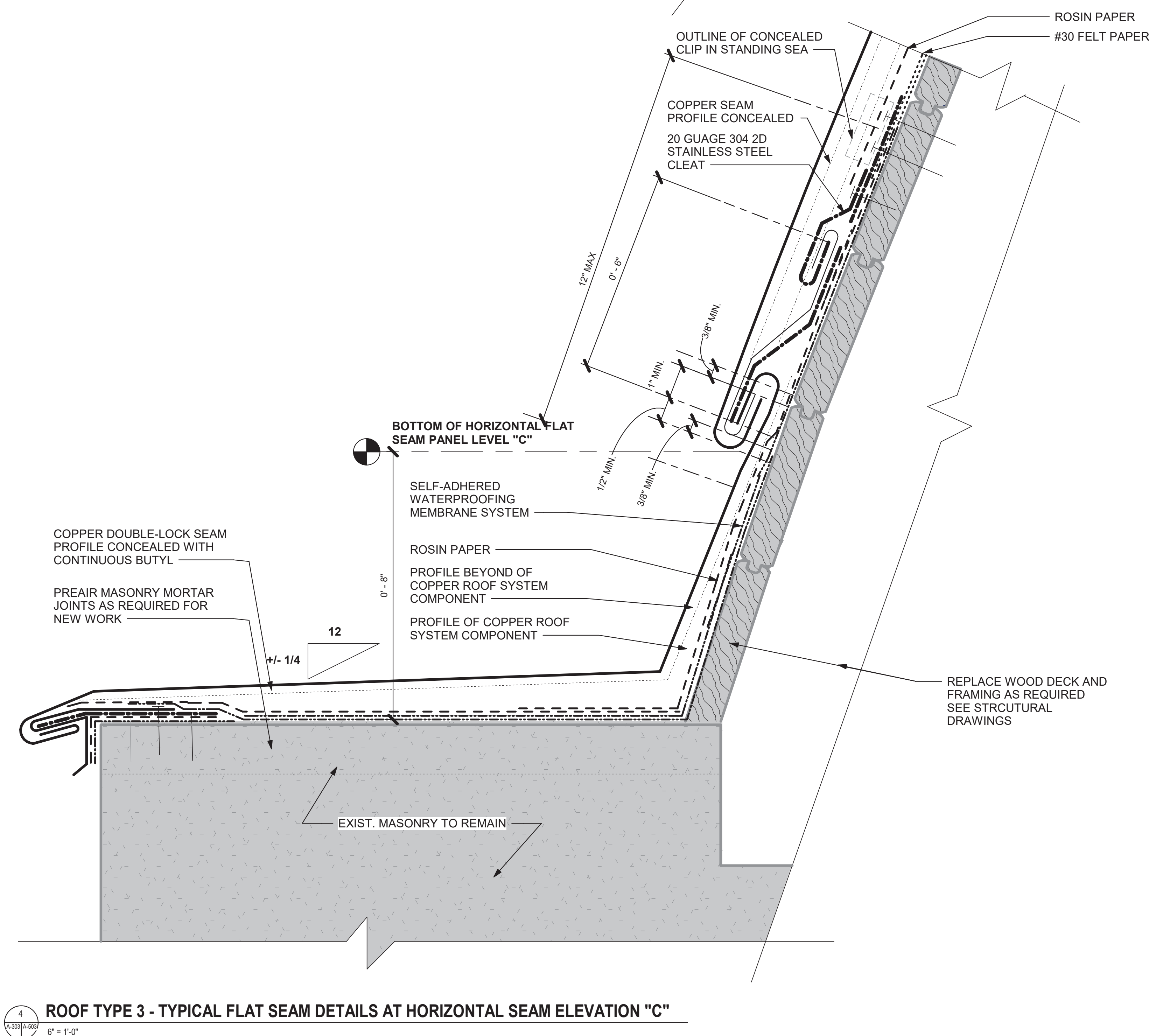
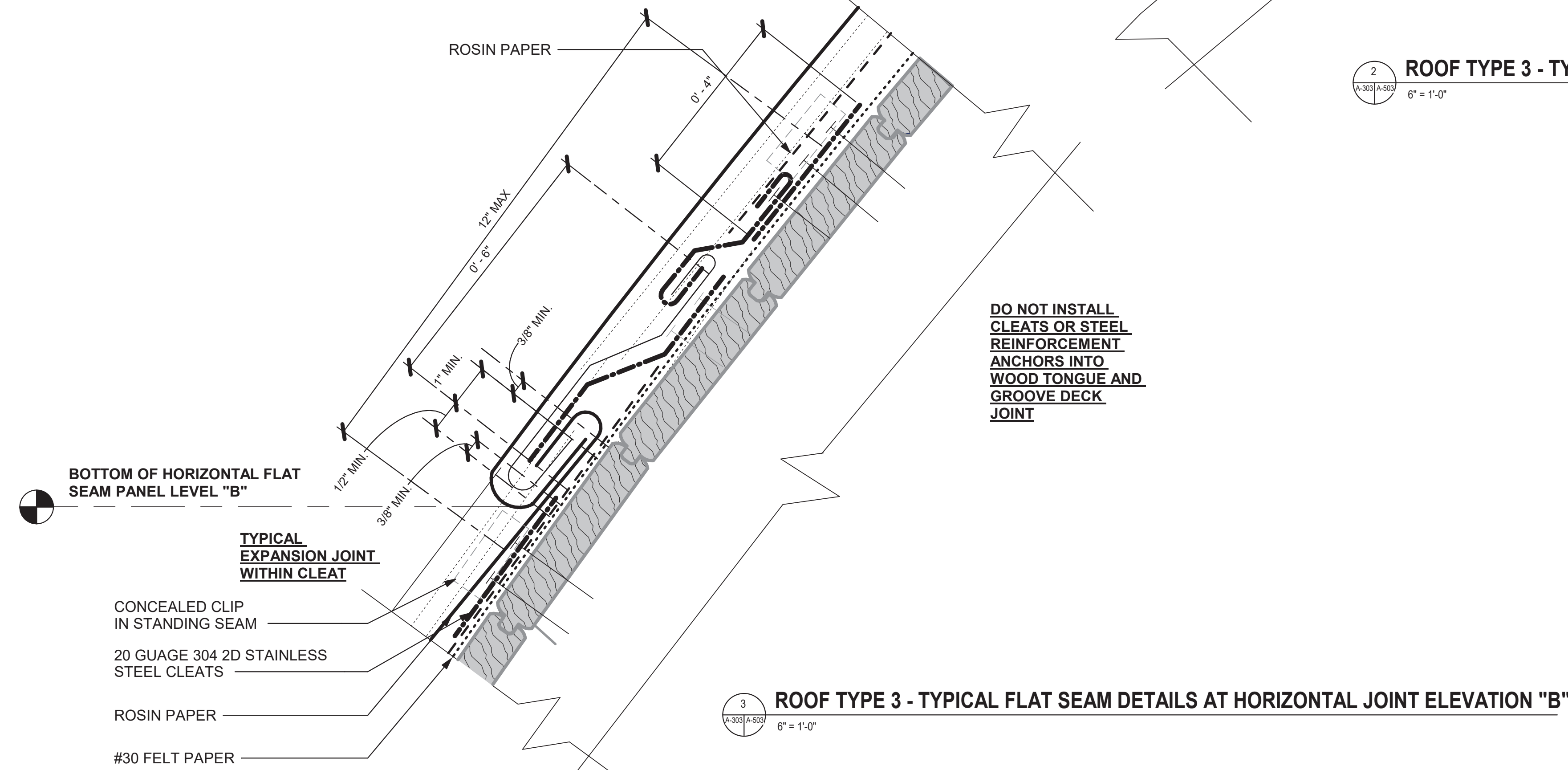
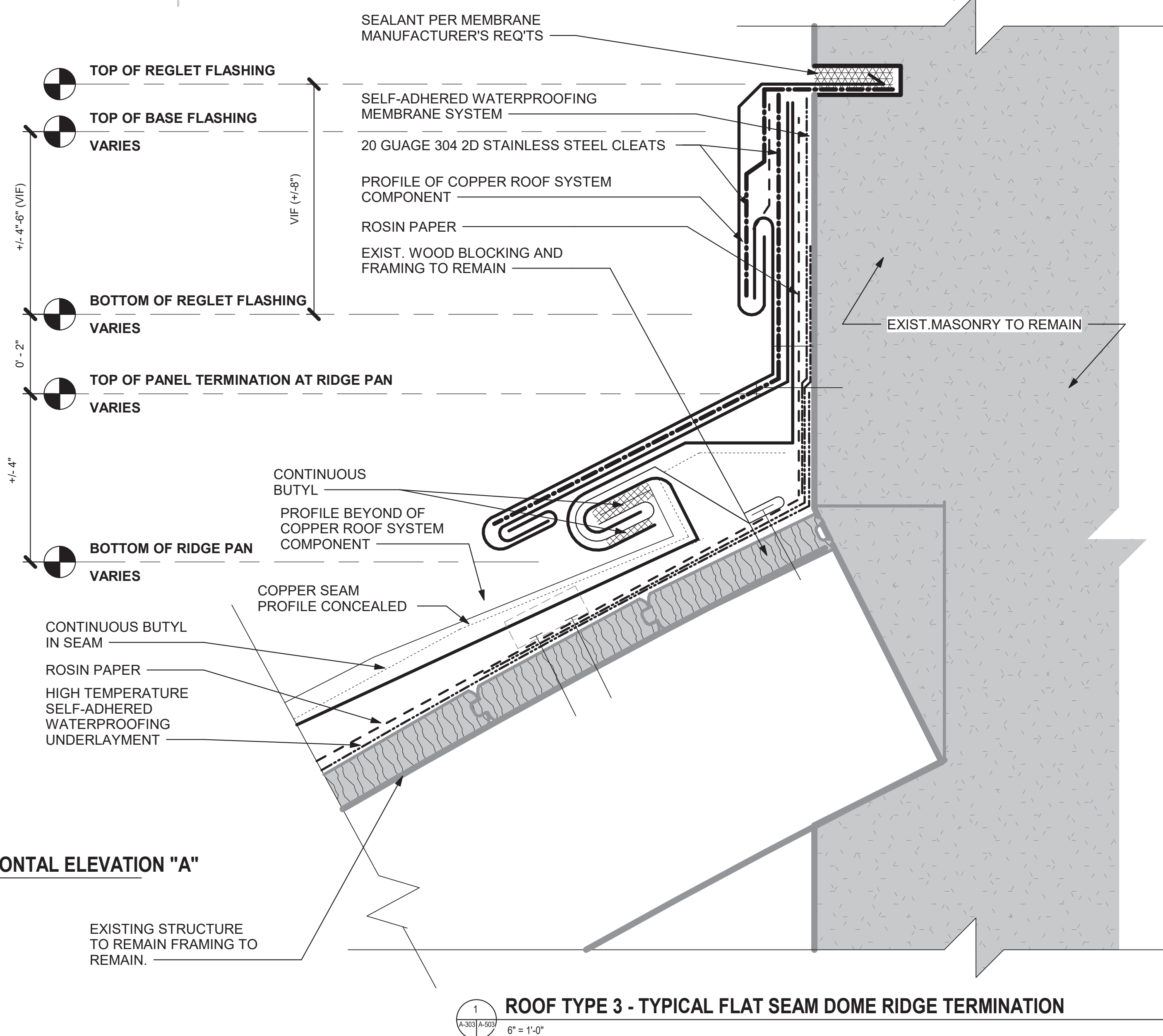
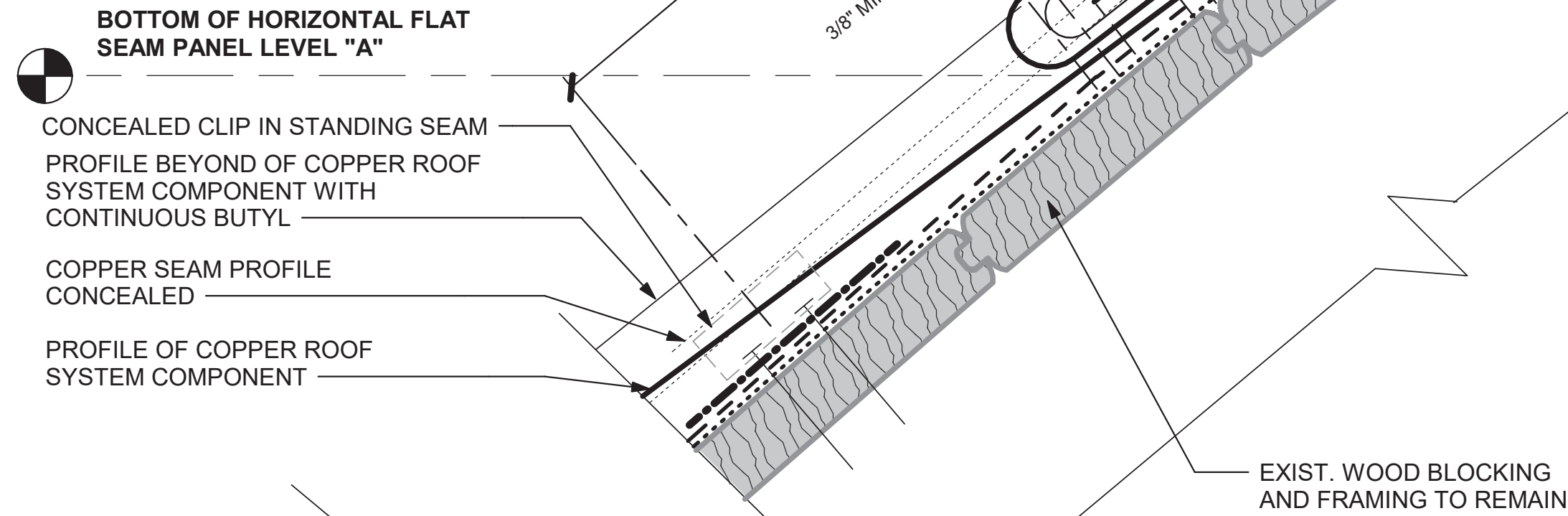
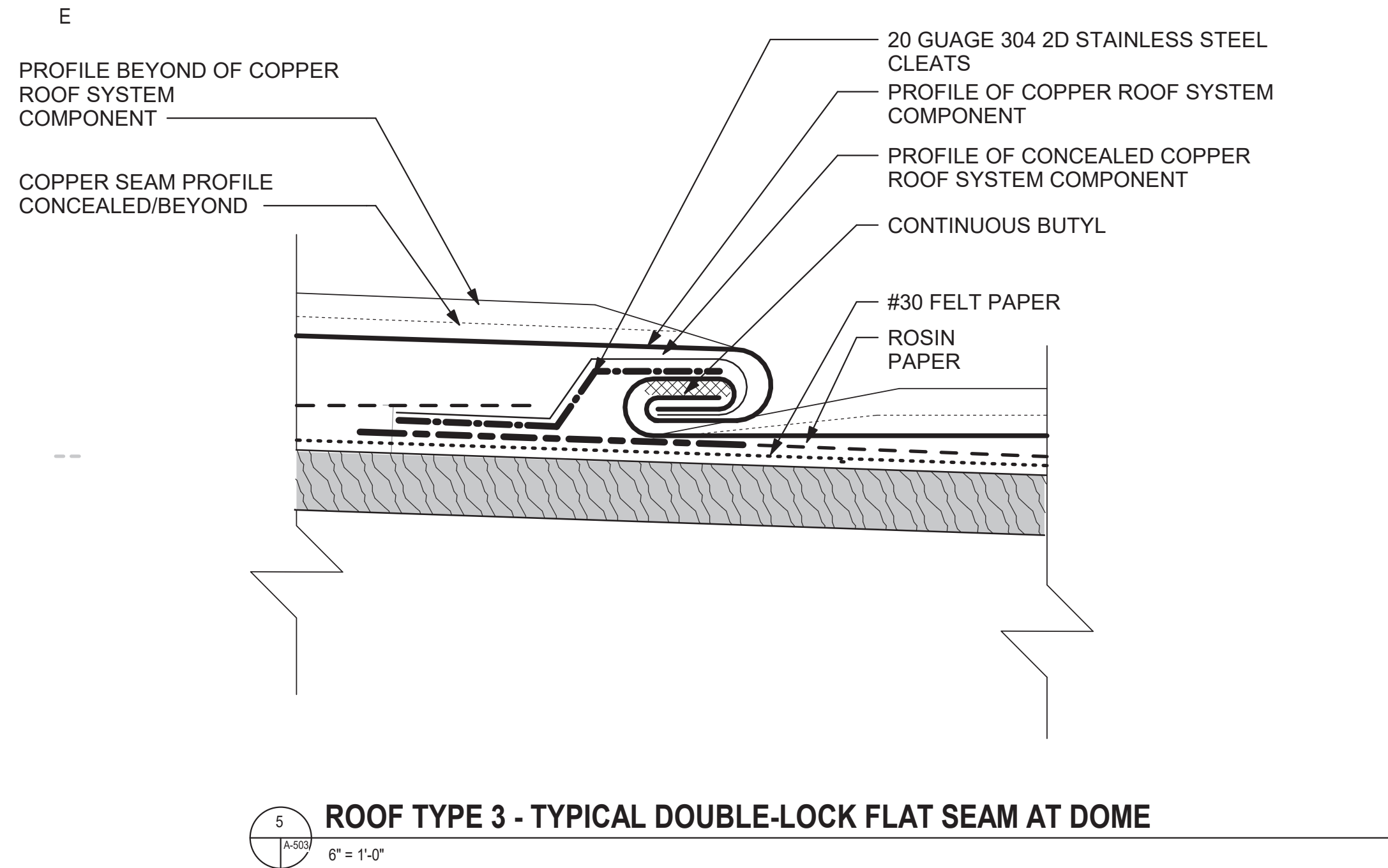
SHEET TITLE:

ROOF TYPE 2B -  
TYPICAL DETAILS

SHEET NO. PROJ. NO.  
RAL1188.001

A-502.2





## ROOF DETAIL LEGEND

	LOCATION LEVEL
	FASTENER, SIZE AND TYPE VARY PER LOCATION AND APPLICATION. SEE STRUCTURAL ENGINEERING DRAWINGS FOR REQUIREMENTS AND DETAILS
	ELEVATION NOTE
	PROFILE BEYOND OF COPPER ROOF SYSTEM COMPONENT
	COPPER SEAM PROFILE CONCEALED
	PROFILE OF CONCEALED COPPER ROOF SYSTEM COMPONENT
	SOLDERED CONNECTION
	OUTLINE OF CONCEALED CLIP IN STANDING SEAM
	ROSIN PAPER
	#30 FELT PAPER
	SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM
	LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM REINFORCEMENT DETAIL
	SEALANT PER MEMBRANE MANUFACTURER'S REQUIREMENTS
	BUTYL
	20 GAUGE 304 2D STAINLESS STEEL CLEATS
	PLYWOOD DECK REPLACEMENT TO MATCH EXISTING. THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	EXISTING PLYWOOD DECK TO REMAIN. THICKNESS VARIES BY LOCATION FROM 1/2" TO 3/4"
	NEW WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS
	WOOD BLOCKING AND FRAMING IN CUSTOM PROFILES AND PERFORMANCE TYPES. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS
	REINFORCE CONCRETE SUBSTRATE TO BE SLOPED TO ROOF DRAINS AND TAPERED AT CORNICE AND ROOF TERMINATION TO CREATE A BOX GUTTER. PREPARE AS REQUIRED FOR FULLY ADHERED LIQUID-APPLIED SEAMLESS WATERPROOFING MEMBRANE SYSTEM
	EXISTING WOOD BLOCKING AND FRAMING TO REMAIN. SEE WOOD REPAIR AND REPLACEMENT NOTES AND STRUCTURAL ENGINEERING DRAWINGS FOR ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	SHIM AS REQUIRED, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURE TO REMAIN FRAMING TO REMAIN, SEE STRUCTURAL ENGINEERING DRAWINGS FOR SCOPE AND REPAIR REQUIREMENTS
	EXISTING STRUCTURAL WOOD FRAMING TO REMAIN. SEE STRUCTURAL ENGINEERING DRAWINGS ADDITIONAL SCOPE AND REPAIR REQUIREMENTS
	CUT AND REPOINT MORTAR JOINTS AT CONCEALED MASONRY JOINTS. SEE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MASONRY REPAIR SCOPE
	EXISTING MASONRY TO REMAIN

## ROOF DETAIL GENERAL NOTES:

- RDG-1** SEE STRUCTURAL ENGINEERING AND MEMBRANE MANUFACTURER REQUIREMENTS FOR WIND UPLIFT AND COMPETENT CLADDING PERFORMANCE DESIGN REQUIREMENTS, FASTENERS, NEW STRUCTURAL FRAMING SCOPE AND REQUIREMENTS, REPAIRS AND REPLACEMENTS TO EXISTING WOOD DECK AND FRAMING AND OTHER RELATED SCOPE.
- RDG-2** EXISTING ROOF ELEMENTS ALL ROOFS TO REMAIN AND PROTECTED AND TIED INTO NEW WORK AS REQUIRED UNLESS OTHERWISE NOTED. RAISE EXISTING CURBS WITH 8" MIN. NEW BLOCKING AND ATTACHMENT TO MEET OR EXCEED DESIGN REQUIREMENTS FOR WIND UPLIFT. REPAIR EXISTING CODITION AS REQUIRED MODIFY AS REQUIRED.
- EMR** EXISTING MASONRY REPAIR NOTES:
- EMR-1** CUT AND REPOINT EXISTING EXPOSED AND CONCEALED MASONRY JOINTS, DEPTH TO BE 2.5 TIMES THE WIDTH OF THE JOINT. SEE ARCHITECTURAL ELEVATIONS FOR MASONRY REPAIR SCOPE NOT INDICATED IN THE ROOF REPAIR AND REPLACEMENT DESIGN.
- EW** EXISTING/ORIGINAL TAG WOOD ROOF DECK AND FRAMING REPAIR NOTES:
- EW-1** PREVENT DAMAGE TO THE EXISTING ASSEMBLIES TO REMAIN. ALL PLYWOOD REQUIRED TO BE REMOVED AND REPLACED TO FACILITATE WORK IS REQUIRED TO BE REMOVED BY THE ENTIRE INTACT SHEET INSTALLED AT THOSE LOCATIONS. NOT TO BE CUT. PLYWOOD TO BE REPLACED IN-KIND TO BE FLUSH WITH ADJACENT SURFACES.
- EW-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD TO MATCH EXISTING. ASSUME THICKNESS RANGE FROM 3/8" TO 1/4" FOR A SINGLE LAYER.
- WD** WOOD DECK AND FRAMING REPLACEMENT NOTES:
- WD-1** FIT PLYWOOD AT ALL PENETRATIONS AND PROJECTIONS. PLYWOOD SHALL BE SECURED WITH JOINTS NO GREATER THAN 1/4". FILL ALL JOINTS AND GAPS WITH SEALANT PER MANUFACTURER REQUIREMENTS. MEMBRANE TO BE FULLY SUPPORTED. STRIP ALL PLYWOOD JOINTS WITH MANUFACTURER DETAIL REINFORCEMENT PER MANUFACTURER REQUIREMENTS.
- WD-1 ALLOWANCE:** 10,000 SF OF A SINGLE LAYER OF PLYWOOD REPLACEMENT DUE TO UNCOVERED DAMAGE TO EXISTING PLYWOOD. ASSUME THICKNESS RANGE FROM 3/8" TO 1/4" FOR A SINGLE LAYER.
- RLSW** LIQUID APPLIED SEAMLESS WATERPROOFING SYSTEM NOTES:
- SAWM** SELF-ADHERED WATERPROOFING MEMBRANE SYSTEM NOTES:
- RS** ROOF SUBSTRATE REPAIR AND REPLACEMENT:
- RS-1** #30 FELT PAPER IS BELOW ALL EXPOSED COPPER, UNLESS OTHERWISE NOTED.
- RS-2** RED ROSIN PAPER IS TO BE INSTALLED AS A SHEET SEPARATION BETWEEN NEW AND EXISTING SYSTEMS AND INCLUDING WOOD SUBSTRATES MASONRY, HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT AND OTHER WATERPROOFING MEMBRANES.
- RS-3** HIGH TEMPERATURE SELF-ADHERED BITUMINOUS UNDERLAYMENT IS TO BE INSTALLED 24" BEYOND STANDING SEAM ROOF TERMINATIONS. ALL ROOF PENETRATIONS AND CHANGES IN SLOPE AND ADJACENT CONSTRUCTION. RED ROSIN PAPER IS TO BE INSTALLED AS A SEPARATION SHEET BETWEEN SELF-ADHERED BITUMINOUS UNDERLAYMENT AND COPPER FLASHING.
- C** COPPER NOTES:
- C-1** COPPER IS TO BE 20oz
- C-2** STANDING SEAMS ARE TO BE DOUBLE-LOCK 1" TALL WITH BUTYL SEALANT
- C-3** COPPER CLEATS ARE TO BE 2" WIDE AND ARE SPACED AT ALL SEAMS 12" MIN., UNLESS OTHERWISE NOTED
- C-4** EXPANSION JOINT SPACING:  
VERTICAL: 15'-0"  
HORIZONTAL: 15'-0"



RAYMOND

316 WEST MILLBROOK ROAD, SUITE 201  
RALEIGH, NORTH CAROLINA 27601  
919.872.7988  
COAF C4261, LICENSE 53143

**MUTER CONSTRUCTION**

111 EAST VANCE STREET  
ZEBULON, NORTH CAROLINA 27597  
919.404.8330

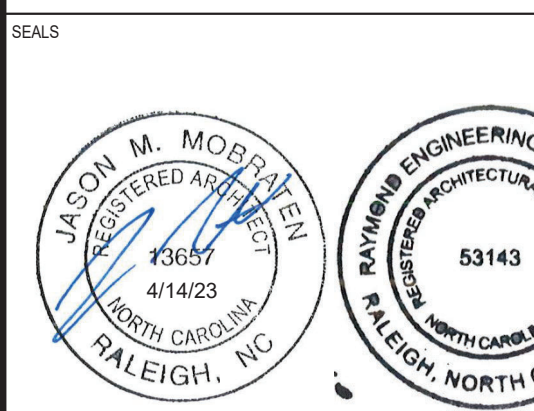


2610 WYCLIFF ROAD, SUITE 410  
RALEIGH, NORTH CAROLINA 27607  
919.891.9939

**SPEWEIK**

Preservation Consultants, Inc.

3163 HERITAGE PARKWAY  
ELGIN, ILLINOIS 60124  
224.858.7449



STATE OF NORTH CAROLINA LEGISLATIVE SERVICES COMMISSION

RESTORATION OF THE NORTH CAROLINA  
STATE CAPITOL BUILDING

1 EAST EDITION STREET  
RALEIGH, NORTH CAROLINA 27601

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

CONSTRUCTION  
DOCUMENTS  
APRIL 14, 2023

SC#:  
23-26138-01A

DESIGNED BY: GJC  
SENIOR REVIEW: JWC  
DRAWN BY: GJC

SHEET TITLE:  
ROOF TYPE 3 -  
TYPICAL DETAILS

SHEET NO. PROJ. NO.  
RAL1188.001

A-503



