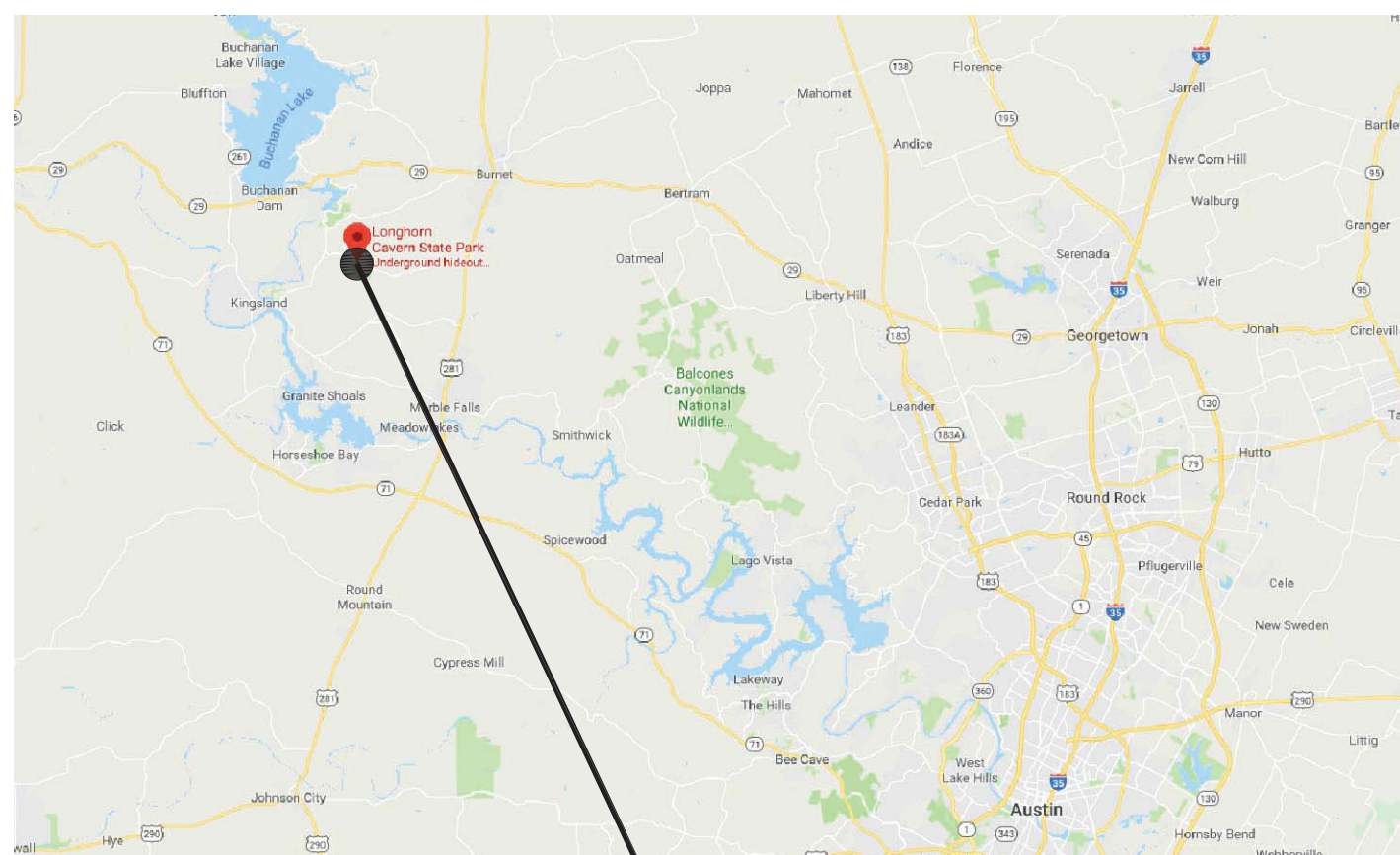


BURNET COUNTY

COUNTY LOCATION MAP
NOT TO SCALE



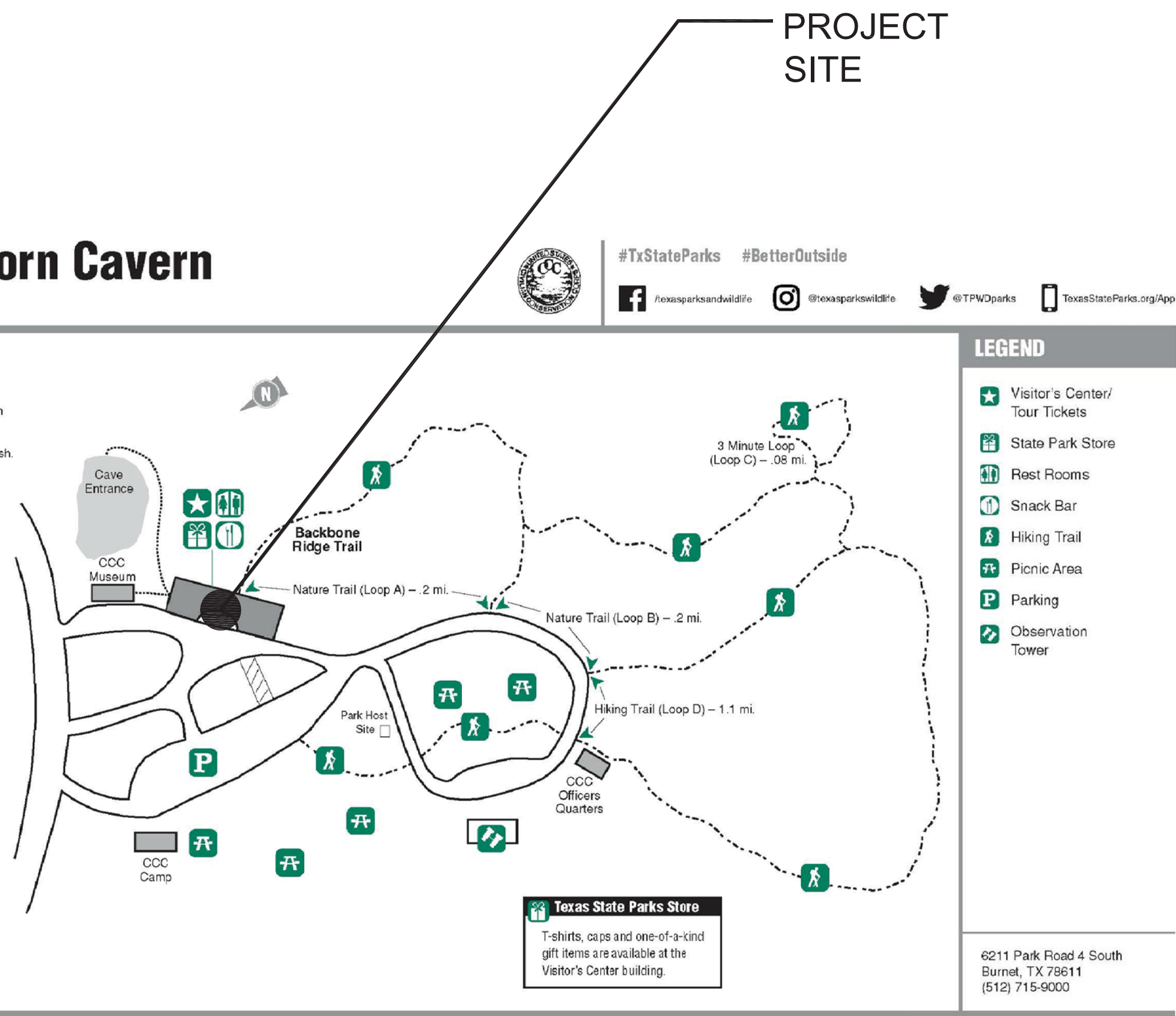
PROJECT SITE

VICINITY MAP
NOT TO SCALE



Longhorn Cavern
State Park

PLEASE NOTE
• Day use park only.
• Public consumption or display of an open container of any alcoholic beverage is prohibited.
• Pets must be kept on a six-foot leash. Please pick up after them.



SITE LOCATION MAP
NOT TO SCALE



PROJECT
LONGHORN CAVERN STATE PARK
ROOF REPLACEMENT

PROJECT NO: 1110393

DATE: MAY 28, 2020

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
-	COVER SHEET
A0	ABBREVIATIONS, NOTES AND SUBMITTALS
A1	DEMOLITION ROOF PLAN AND PHOTOS
A2	PROPOSED ROOF PLAN
A3	ELEVATIONS
A4	DETAILS
A5	DETAILS
A6	DETAILS

BUILDING CODE SUMMARY

- A. INTERNATIONAL CODE COUNCIL ADOPTIONS*
 - BUILDING CODE INTERNATIONAL BUILDING CODE 2015
 - STRUCTURAL CODE INTERNATIONAL BUILDING CODE 2015
 - PLUMBING CODE INTERNATIONAL PLUMBING CODE 2015
 - MECHANICAL CODE INTERNATIONAL MECHANICAL CODE 2015
 - GAS CODE INTERNATIONAL FUEL GAS CODE 2015
 - RESIDENTIAL CODE INTERNATIONAL RESIDENTIAL CODE 2015
 - EXISTING BUILDINGS INTERNATIONAL EXISTING BUILDINGS CODE 2015
- * International Fire Code omitted in lieu of TPWD's implementation of National Fire Protection Association codes. International Energy Conservation Code 2015 omitted in lieu of Energy Standard for Buildings, ASHRAE/IESNA Standard 90.1 (2013).
- B. NATIONAL FIRE PROTECTION ASSOCIATION
 - ELECTRIC CODE NATIONAL ELECTRICAL CODE NFPA-70 2017
 - FIRE CODE NFPA - 1 2015
 - LIFE SAFETY CODE NFPA - 101 2015
- C. STATE ENERGY CONSERVATION OFFICE (SECO)/TEXAS COMPTROLLERS OFFICE
 - ENERGY CODES FOR STATE BUILDINGS - See Energy Conservation Design Standards: Texas Administrative Code, Title 34, Part 1, Ch. 19, Subchapter C
 - COMPLIANCE WITH THE ENERGY CONSERVATION DESIGN STANDARD OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE)/ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA), ENERGY STANDARD FOR BUILDINGS, ASHRAE/IESNA STANDARD 90.1 (2013)
See SECO website for State Funded Buildings, New Construction and Major Renovation Requirements and SECO Compliance Certification Forms
 - WATER CONSERVATION STANDARDS FOR STATE BUILDINGS - Energy Conservation Design Standards: Texas Administrative Code, Title 34, Part 1, Ch. 19, Subchapter C
 - COMPLIANCE WITH THE WATER CONSERVATION DESIGN STANDARDS FOR STATE BUILDINGS AND INSTITUTIONS OF HIGHER EDUCATION FACILITIES, STATE ENERGY CONSERVATION OFFICE (SECO), 2016
See SECO website for Texas Water Conservation Design Standards, Requirements and SECO Compliance Certification / Reporting Form
- D. ACCESSIBILITY CODES
 - US DEPT. OF JUSTICE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
 - ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES, OUTDOOR DEVELOPED AREAS, NOVEMBER 25, 2013
 - 2012 TEXAS ACCESSIBILITY STANDARDS, ELIMINATION OF ARCHITECTURAL BARRIERS, TEXAS GOVERNMENT CODE, CHAPTER 469
- E. PLAYGROUND SAFETY CODE
 - ASTM F1487-17, STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATIONS FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE
 - ASTM F2223-15, STANDARD GUIDE FOR ASTM STANDARDS ON PLAYGROUND SURFACING

TPWD TEAM

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jbeal@pdgarchitects.com

SCOPE OF WORK

CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, TOOLS, MATERIALS, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED WORK BELOW ON THE HEADQUARTERS BUILDING AT LONGHORN CAVERN STATE PARK.

- REMOVE THE EXISTING LOW SLOPE ROOFING TO STRUCTURE BELOW AND INSTALL NEW LOW SLOPE ROOFING SYSTEM.
- REMOVE EXISTING METAL ROOF RECOVER PANELS. REPAIR AND REINFORCE WOOD SUPPORT STRUCTURE AND INSTALL NEW METAL ROOF.
- REMOVE EXISTING WOOD WALL SHAKES AND SHEATHING AND INSTALL NEW SHEATHING, WATER BARRIER, CEDAR BREATHER UNDERLAYMENT AND WOOD SHAKES.
- INSTALL GUTTERS, DOWNSPOUTS AND SPLASH BLOCKS.



TEXAS PARKS AND WILDLIFE
INFRASTRUCTURE DIVISION

4200 SMITH SCHOOL ROAD · AUSTIN, TEXAS 78744-3292

RELEASED FOR SOLICITATION

Digitally signed by Lori Sons
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Digitally signed by Lori Sons
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DESIGN BRANCH MANAGER, INFRASTRUCTURE DIVISION

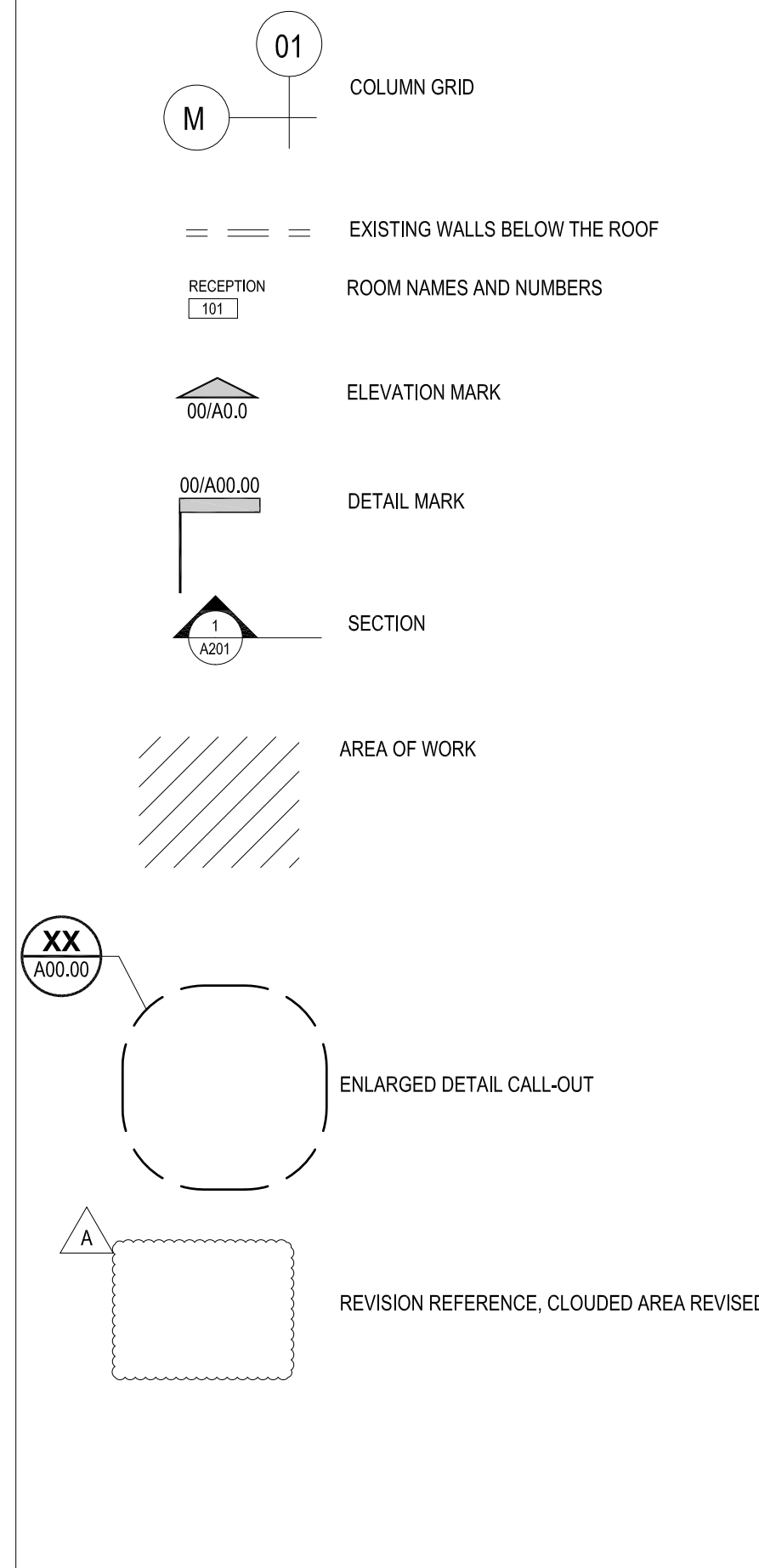
7/10/2020
DATE
8/26/2020
DATE



ABBREVIATIONS

ACoust	ACOUSTICAL	LAM	LAMINATE
AFf	ABOVE FINISHED FLOOR	LAV	LAVATORY
ADD	ADDITION	LB	POUND
ADJ	ADJUSTABLE	LBL	LABEL
AC	AIR CONDITIONING	LWT	LIGHTWEIGHT
ALT	ALTERNATE	MACH	MACHINE
ALUM	ALUMINUM	MAINT	MAINTENANCE
APPROX	APPROXIMATE	MATL	MATERIAL
APPV	APPROVED	MAX	MAXIMUM
ARCH	ARCHITECT	MBR	MEMBER
AVE	AVENUE	MC	MEDICINE CABINET
BD	BOARD	MECH	MECHANICAL
BETW	BETWEEN	MEP	MECHANICAL/ELECTRICAL/PLUMBING
BLDG	BUILDING	MFR	MANUFACTURER
BLKG	BLOCKING	MGR	MANAGER
BM	BEAM OR BENCH MARK	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRZ	BRONZE	MK	MARK
BSMT	BASEMENT	MLDG	MOLDING
		MO	MASONRY OPENING
		MSRY	MASONRY
		MTD	MOUNTED
		MTL	METAL
		MUL	MULLION
		MW	MICROWAVE
		NIC	NOT IN CONTRACT
		NO	NUMBER
		NOM	NOMINAL
		NTS	NOT TO SCALE
		OA	OVERALL
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OH	OPPOSITE HAND
		OPNG	OPENING
		OPP	OPPOSITE
		ORIG	ORIGINAL
		OVHD	OVERHEAD
		OZ	OUNCE
		PART	PARTIAL
CTR	CENTER	PART BD	PARTICLE BOARD
CW	COLD WATER	PL	PROPERTY LINE
		PLAM	PLASTIC LAMINATE
		PLMB	PLUMBING
		PLYWD	PLYWOOD
		PREFAB	PREFABRICATED
		PR	PAIR
		PROP	PROPERTY
		PSI	POUNDS PER SQ IN
		PTD	PAINTED
		RA	RETURN AIR
		RAD	RADIUS
		RAG	RETURN AIR GRILL
		RE	REFER
EA	EACH	REC	RECESSED
ELEV	ELEVATION	RECEPT	RECEPTACLE
ELEC	ELECTRICAL	RECT	RECTANGULAR
ENCL	ENCLOSURE	RELOC	RELOCATED
ENGR	ENGINEER	REQD	REQUIRED
EQ	EQUAL	REP	REPRESENTATIVE
EQUIP	EQUIPMENT	RESIL	RESILIENT
ETC	AND SO FORTH	REV	REVISION
EWC	ELECTRIC WATER COOLER	RH	RIGHT HAND
		RM	ROOM
		RND	ROUND
		RO	ROUGH OPENING
		RTN	RETURN
EXH	EXHAUST	SC	SOLID CORE
EXTG	EXISTING	SCHED	SCHEDULE
EXP	EXPOSED	SECT	SECTION
EXT	EXTERIOR	SEQ	SEQUENCE
FD	FLOOR DRAIN	SF	SQUARE FEET
FE	FIRE EXTINGUISHER	SGL	SINGLE
FEC	FIRE EXTINGUISHER CABINET	SH	SHEET
FED	FEDERAL	SIM	SIMILAR
FF	FINISHED FLOOR	SPEC	SPECIFICATION
FV	FIELD VERIFY	SQ	SQUARE
FHC	FIRE HOSE CABINET	SS	STAINLESS STEEL
FL	FLOW LINE	STD	STANDARD
FLR	FLOOR	STL	STEEL
FRPF	FIREPROOF	STOR	STORAGE
FR	FRAME	STRUCT	STRUCTURAL
FTG	FOOTING	SURF	SURFACE
FURR	FURRING	SUSP	SUSPENDED
FW	FIRE WALL	TECH	TECHNICAL
FSTR	FIXTURE	TELE	TELEPHONE
GA	GAUGE	THK	THICK (NESS)
GALV	GALVANIZED	THRU	THROUGH
GEN	GENERAL	TYP	TYPICAL
GFE	GOVERNMENT FURNISHED EQUIPMENT	UNFIN	UNFINISHED
GFM	GOVERNMENT FURNISHED MATERIAL	UNO	UNLESS NOTED OTHERWISE
GL	GLASS	VENT	VENTILATE
GOVT	GOVERNMENT	VERT	VERTICAL
GRL	GRILLE	VCT	VINYL COMPOSITION TILE
GYP	GYPSPUM	VET	VINYL ENHANCED TILE
GYP BD	GYPSPUM BOARD	VOL	VOLUME
GC	GENERAL CONTRACTOR	VVC	VINYL WALLCOVERING
HDWR	HARDWARE	WD	WOOD
HM	HOLLOW METAL	WH	WATER HEATER
HORIZ	HORIZONTAL	WHSE	WAREHOUSE
HT	HEIGHT	WP	WATERPROOF
HTR	HEATER	W	WITH
HWD	HARDWOOD	WO	WITHOUT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	WT	WEIGHT
HW	HOT WATER	YD	YARD
HHW	HOT WATER HEATER		
ID	INSIDE DIAMETER		
INSUL	INSULATION		
INTR	INTERIOR		
JAN	JANITOR		
JT	JOINT		

DRAWING SYMBOL LEGEND



GENERAL DEMOLITION NOTES

- ANY ITEM WHICH IS DESIGNATED TO REMAIN AND IS LOST OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PROMPTLY REPAIR ADJACENT SURFACES DAMAGED BY DEMOLITION OPERATIONS.
- REMOVE DEMOLISHED MATERIALS AND DEBRIS FROM THE SITE IN A MANNER APPROVED BY THE PROJECT MANAGER. TRANSPORT AND LEGALLY DISPOSE OFF MATERIALS AT AN APPROVED OFF SITE LOCATION.
- UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT AND MATERIALS FROM SITE. REMOVE PROTECTIONS AND LEAVE SITE CLEAN.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EXISTING MATERIALS NOTES

- EXISTING LOW SLOPE ROOF INCLUDED IN SCOPE IS TPO MEMBRANE ON COVER BOARD, RIGID ROOF INSULATION AND WOOD DECK.
- EXISTING PARAPET WALLS ARE FLASHED WITH TPO MEMBRANE AND HAVE A SHEET METAL COPING.
- EXISTING HIGH SLOPE ROOF IS A METAL PANEL RECOVER ROOF ON WOOD RE-COVER STRUCTURE SITTING ON TOP OF THE ORIGINAL ROOF'S WOOD DECKING AND WOOD STRUCTURE.
- EXISTING WALL CLADDING IS WOOD SHINGLES ON WOOD SHEATHING.

ASBESTOS MATERIALS SURVEY:

- ASBESTOS CONTAINING MATERIALS WERE FOUND IN DRYWALL CEILING TEXTURE, DRYWALL JOINT COMPOUND, CHU TEXTURE AND WINDOW CAULKING, AS NOTED IN BUILDING MATERIALS SURVEY BY TERRACON CONSULTANTS DATED OCTOBER 5, 2009.
- DO NOT DISTURB ASBESTOS CONTAINING MATERIALS.

EXISTING CONDITIONS

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, SLOPES, AREAS, AND CONDITIONS. DIMENSIONS AND AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE.
- DRAWINGS IN THIS SET ARE NOT TO BE CONSIDERED DRAWINGS OF AS-CONSTRUCTED CONDITIONS.
- FIELD MEASUREMENTS WILL BE REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO FABRICATE ITEMS OF WORK AND TO COMPLETE THE WORK DEPICTED IN THE CONSTRUCTION DOCUMENTS.
- IF CONDITIONS ARE ENCOUNTERED WHICH DIFFER FROM CONDITIONS SHOWN OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, TO INCLUDE BUT NOT BE LIMITED TO DETERIORATED MATERIALS, OR DIFFERENT CONCEALED MATERIALS, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND SHALL NOT PROCEED WITH ADDITIONAL WORK WITHOUT WRITTEN AUTHORIZATION.

PROPOSED MATERIALS NOTES

HEADQUARTERS BUILDING

- NEW LOW SLOPE ROOFING MATERIAL SHALL BE SBS MODIFIED BITUMEN ROOF. CAP SHEET SHALL BE WHITE IN COLOR.
- UNDERLAYMENT SHALL BE COVER BOARD AS APPROVED BY ROOFING MANUFACTURER, ON NEW TAPERED POLY-ISO INSULATION.
- NEW PARAPET FLASHING SHALL BE FLASHING MEMBRANE PER SBS MODIFIED BITUMEN ROOF MANUFACTURER. COLOR OF MEMBRANE FLASHING AT REMOVED WOOD SIDING TO BE BROWN.
- NEW PARAPET CAP AND SCUPPERS SHALL BE PREFINISHED GALVANIZED STEEL. COLOR TO BE CLOSE TO EXISTING, SELECTED FROM MANUFACTURER'S FULL RANGE.
- NEW STEEP SLOPE ROOFING MATERIAL SHALL BE STANDING SEAM METAL PANEL ON WOOD OPEN FRAMING.
- GUTTERS AND DOWNSPOUTS TO BE PREFINISHED ALUMINUM. COLOR TO BE SELECTED BY THE OWNER FROM MANUFACTURER'S FULL RANGE.
- ALL NEW ROOFING TO BE CAPABLE OF RESISTING WIND SPEED OF 105 Vmph per ASCE 7, RISK CATEGORY II.
- NEW WOOD SHAKES TO BE FIRE-RETARDANT FACTORY IMPREGNATED SHAKES. MATCH SIZE AND PATTERN OF EXISTING SHAKES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

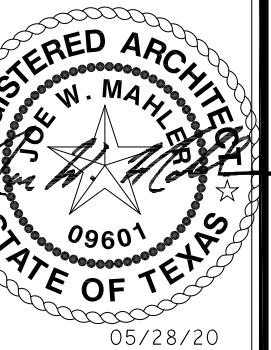
SUBMITTALS TABLE

MATERIAL/PRODUCT	MANUF.'S PRODUCT INFO	INSTALLATION INSTRUCTIONS	SAFETY DATA SHEETS	SAMPLE	LEGIBLE PHOTO OF THE MATERIAL	SHOP DRAWINGS AND/OR MFG.'S DETAILS	MANUF.'S SAMPLE WARRANTY	OTHER NOTES
ROUGH CARPENTRY-LUMBER	●							
FASTENERS FOR CARPENTRY	●	●						
PLYWOOD DECKING	●							
T&G DECKING	●			●				
FOAM ROOF INSULATION	●	●						
COVER BOARD	●	●						
SBS MODIFIED ROOF	●	●		●		●	●	
BATT ROOF INSULATION	●	●						PROVIDE SAMPLES TO PARK FOR APPROVAL
METAL PANEL ROOF	●	●		●		●	●	
FASTENERS FOR MTL. PANEL	●	●						
CLIPS FOR MTL. PANEL ROOF	●	●						
FLASHINGS	●	●				●		
EXTENDED ROOF SCUPPERS	●	●				●		
ROOFING ACCESSORIES	●	●					●	
FIRE RETARDANT WOOD SHAKES	●	●		●			●	PROVIDE SAMPLES TO PARK FOR APPROVAL
FASTENERS FOR WOOD SHAKE	●	●						
WD. SHINGLES UNDERLAYMENT	●	●						
FASTENERS FOR UNDERLAYMENT	●	●						
WALL SHEATHING	●	●						
GUTTERS, DOWNSPOUTS, SPLASHBLOCKS	●	●				●		
CAULKS	●	●	●					
ADHESIVES	●	●	●					

NOTES:

- SUBMIT WITH SIGNED TPWD SUBMITTAL COVER SHEET.
- SUBMIT EITHER INDIVIDUAL SUBMITTALS PER EACH ITEM, OR A COMBINED SUBMITTAL PER EACH LINE ITEM.
- A SUBMITTAL IS REQUIRED PER EACH ITEM NOTED. IF CONTRACTOR HAS DIFFICULTY OBTAINING INFORMATION FOR AN ITEM, PLEASE NOTIFY ARCHITECT.

TEXAS
PARKS &
WILDLIFE



PDG
ARCHITECTS

LONGHORN CAVERN STATE PARK
ROOF REPLACEMENT
PROJECT NUMBER: 1110393

DATE: 05-28-2020
DESIGN BY: RZ/JWB
DRAWN BY: RZ/HF
REVIEW BY: BG
REVISED:

SHEET TITLE
ABBREVIATIONS,
NOTES &
SUBMITTALS

SHEET NUMBER

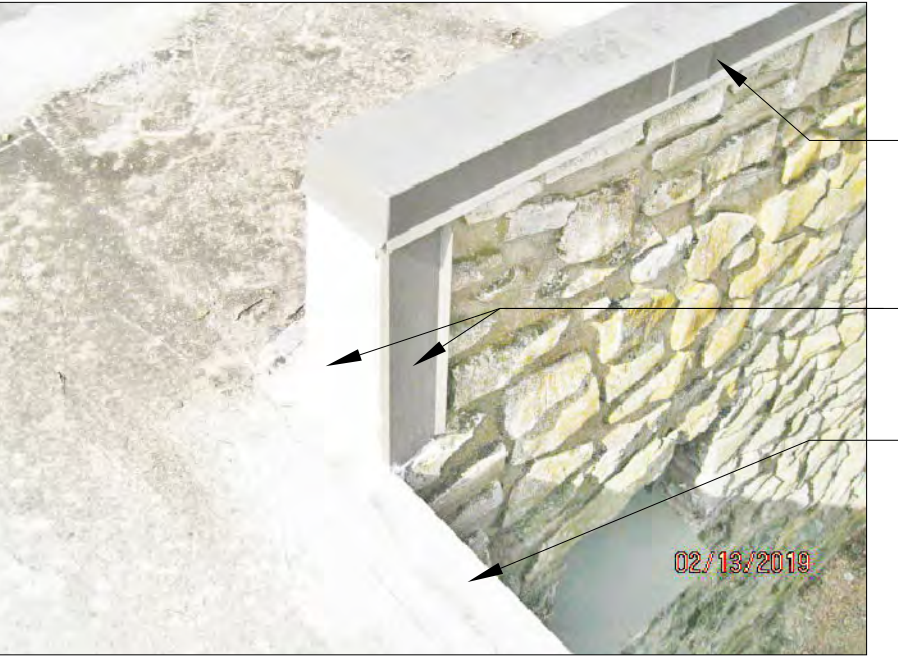
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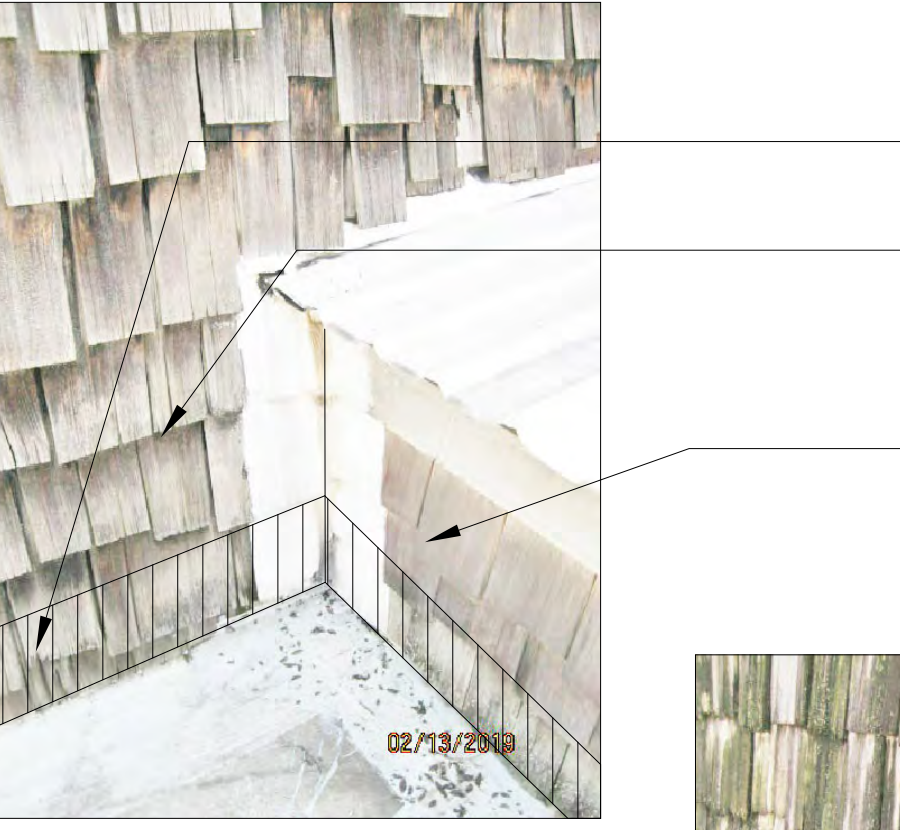
K VIEW AT ROOF PENETRATION



J VIEW AT EXISTING CHIMNEY FLASHING



I VIEW AT PARAPET WALL END



H VIEW AT ROOF TO WALL CONDITION



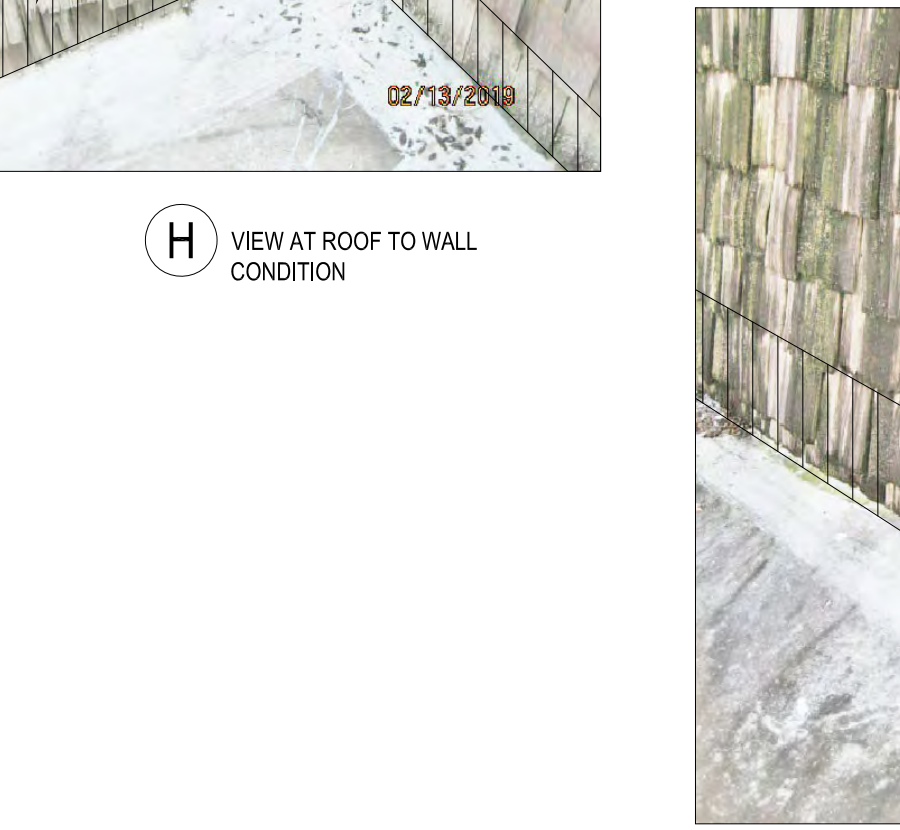
G ROOF VIEW AT EXHAUST FANS



F VIEW OF SIDEWALL BASE



E VIEW AT PARAPET WALL END



D VIEW AT ROOF TO WALL CORNER CONDITION



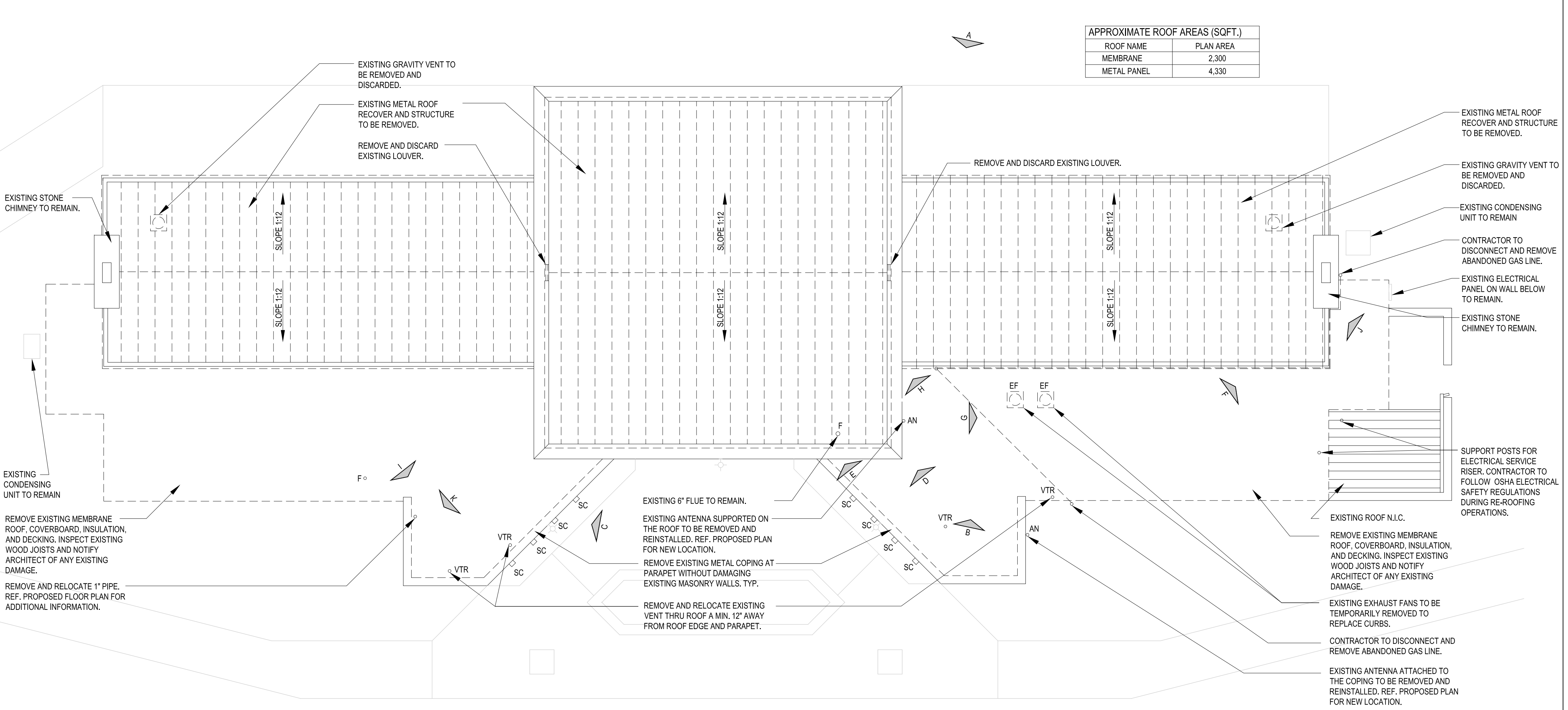
C VIEW AT EXISTING SCUPPER DRAINAGE PIPES



B ROOF VIEW

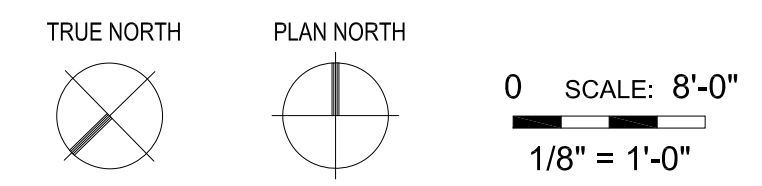


A NORTH VIEW OF HEADQUARTERS

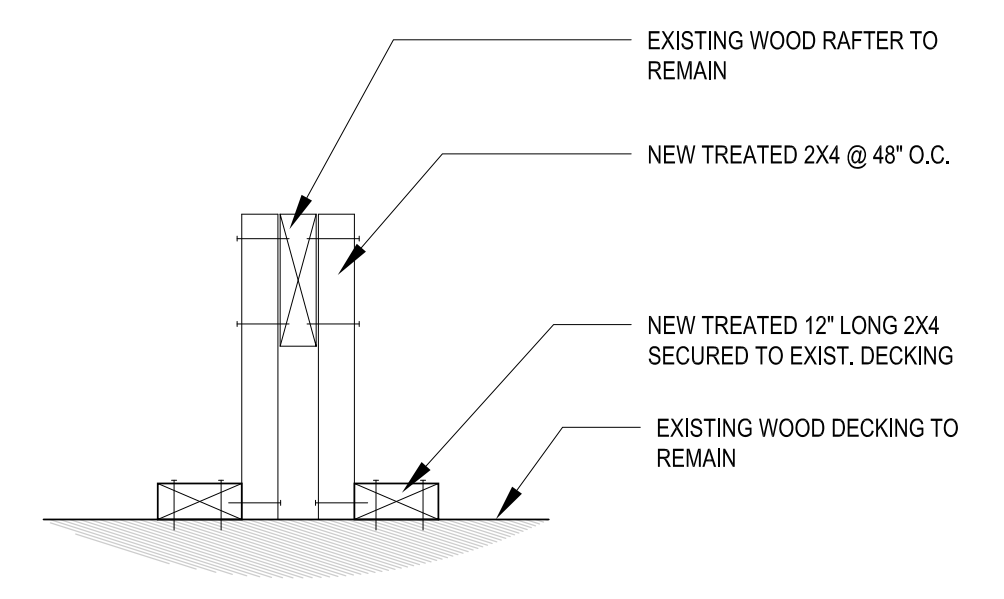


- DEMOLITION NOTES:
- CONTRACTOR TO REMOVE EXISTING MEMBRANE ROOFING DOWN TO EXISTING JOISTS. INSPECT EXISTING JOISTS AND NOTIFY ARCHITECT OF ANY DAMAGE BEFORE PROCEEDING WITH NEW ROOF INSTALLATION.
 - REMOVE ALL EXISTING WOOD WALL SHAKES AND WOOD SHEATHING INSPECT EXISTING WOOD STUDS AND NOTIFY ARCHITECT OF ANY EXISTING DAMAGE.
 - REMOVE EXISTING ACCESSORIES (LIGHTS, CAMERAS, HORNS ETC.) FROM EXISTING WOOD SHAKE WALLS AND HOLD FOR REINSTALLATION.
 - REMOVE EXISTING METAL ROOF RECOVER PANELS.

- ROOF LEGEND:
- VTR PLUMBING VENT THRU ROOF
 - SC SCUPPER
 - F FLUE
 - EF EXHAUST FAN
 - AN ANTENNA
 - GV GRAVITY VENT



SCALE:
N.T.S.



SCALE:
N.T.S.

NOT USED 04

SCALE: 8"
1-1/2" = 1'-0"

**SUPPORT DETAIL @ EXISTING
RE-ROOF STRUCTURE 03**

EXISTING RE-ROOF STRUCTURE NOTES:

- BEFORE INSTALLATION OF NEW METAL PANEL ROOFING, ENSURE ADDITIONAL SUPPORT IS INSTALLED AT ALL EXISTING RAFTERS PER DETAIL 03/A2.
- INSTALL BAT INSULATION ON THE EXISTING WOOD DECK AT THE METAL PANEL RE-ROOF AREAS. REF. SPECIFICATIONS.

GENERAL NOTES:

- ALL PENETRATIONS SHOWN ARE IN APPROXIMATE LOCATION. ENSURE ALL PENETRATIONS ARE LOCATED AT A MINIMUM OF 12" FROM WALLS, PARAPETS, AND EDGE OF ROOF. RELOCATE AS NECESSARY.
- CONTRACTOR TO PROTECT ALL OPENINGS THROUGH ROOF DURING CONSTRUCTION.
- CONTRACTOR TO MAINTAIN ALL ENTRY AND EXIT DOORS DURING CONSTRUCTION.
- CONTRACTOR TO ENSURE ALL OPENINGS, VENTS AND PIPES ARE A MINIMUM OF 8" ABOVE FINISHED ROOF UNLESS NOTED OTHERWISE. EXTEND AS NECESSARY.

ROOF LEGEND:

VTR PLUMBING VENT THRU ROOF
SC SCUPPER
F FLUE
EF EXHAUST FAN
AN ANTENNA
DS DOWNSPOUT

APPROXIMATE ROOF AREAS (SQFT.)	
ROOF NAME	PLAN AREA
MODIFIED BITUMEN	2,300
METAL PANEL	4,330

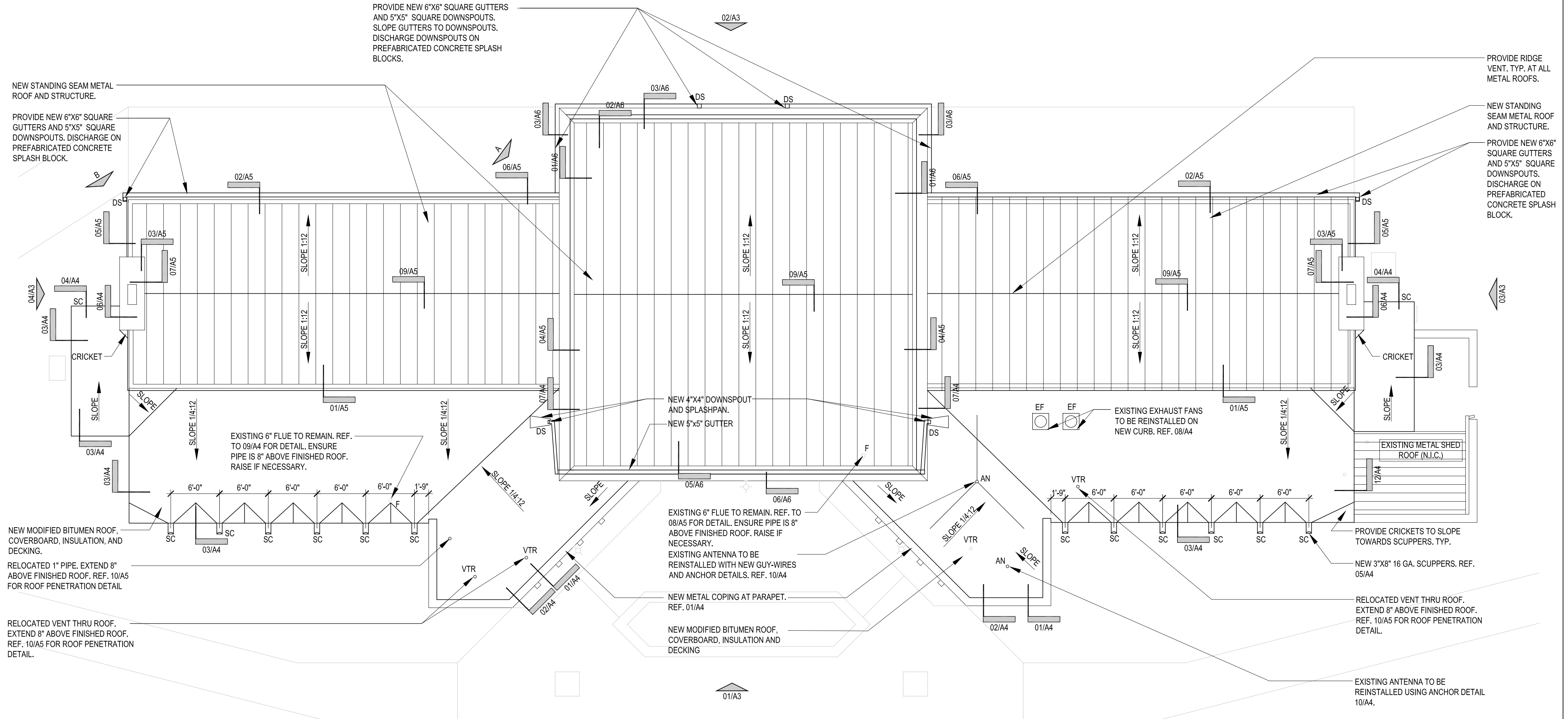


B VIEW AT EXISTING WINDOWS



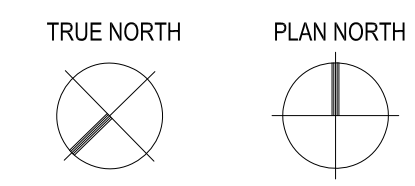
A NORTH VIEW OF HEADQUARTERS

- REMOVE AND DISCARD FLASHING AND WOOD CLADDING
- CAREFULLY REMOVE WOOD MEMBER AND RETURN TO BUILDING OWNER.
- REMOVE AND DISCARD SHEET METAL FLASHING
- REMOVE AND DISCARD FLASHING AND WOOD CLADDING
- CAREFULLY REMOVE WOOD MEMBER AND RETURN TO BUILDING OWNER.
- REMOVE ALL LIGHT FIXTURES, PA ACCESSORIES AND EQUIPMENT MOUNTED ON THE WOOD CLADDING AND REINSTALL AFTER REPLACEMENT OF THE WOOD SHAKES



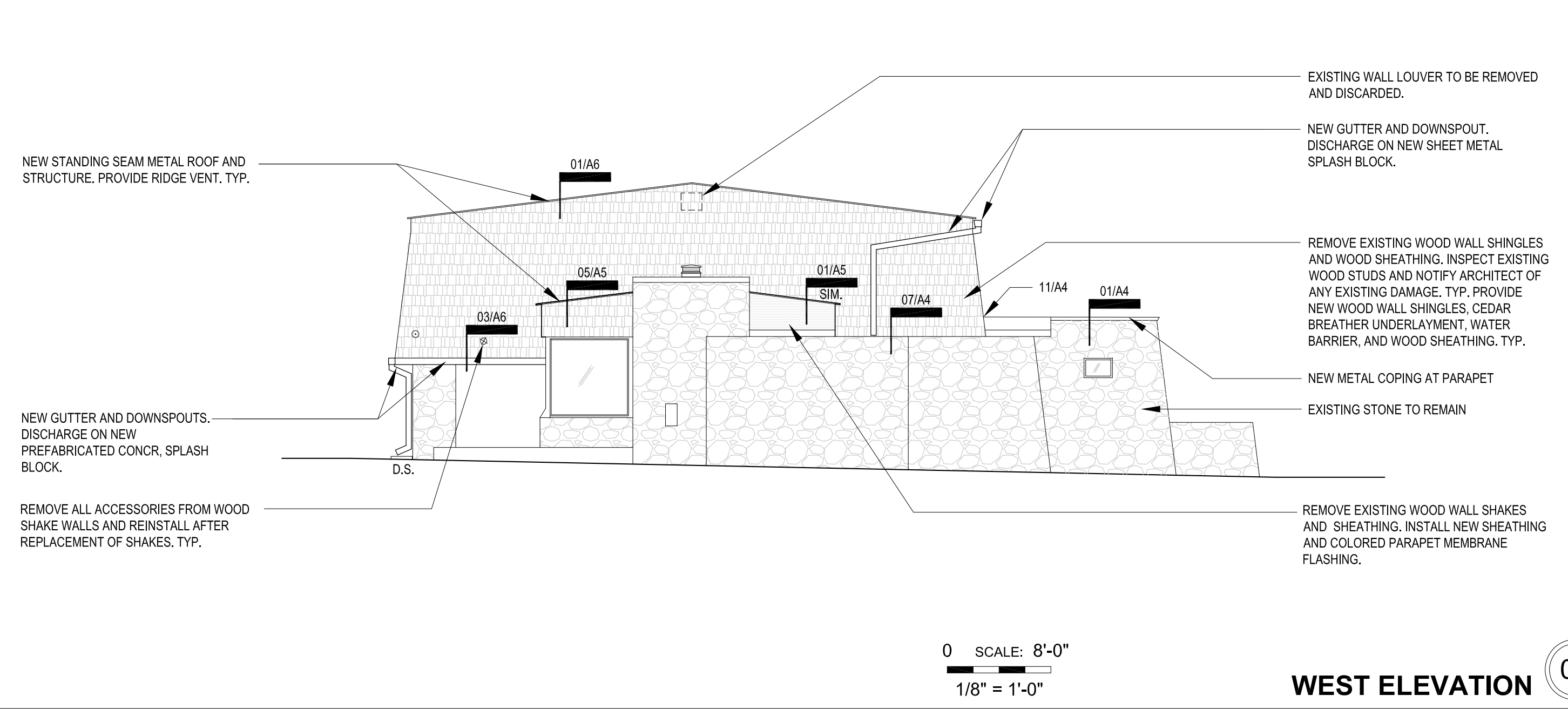
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**HEADQUARTERS
PHOTOS 02**

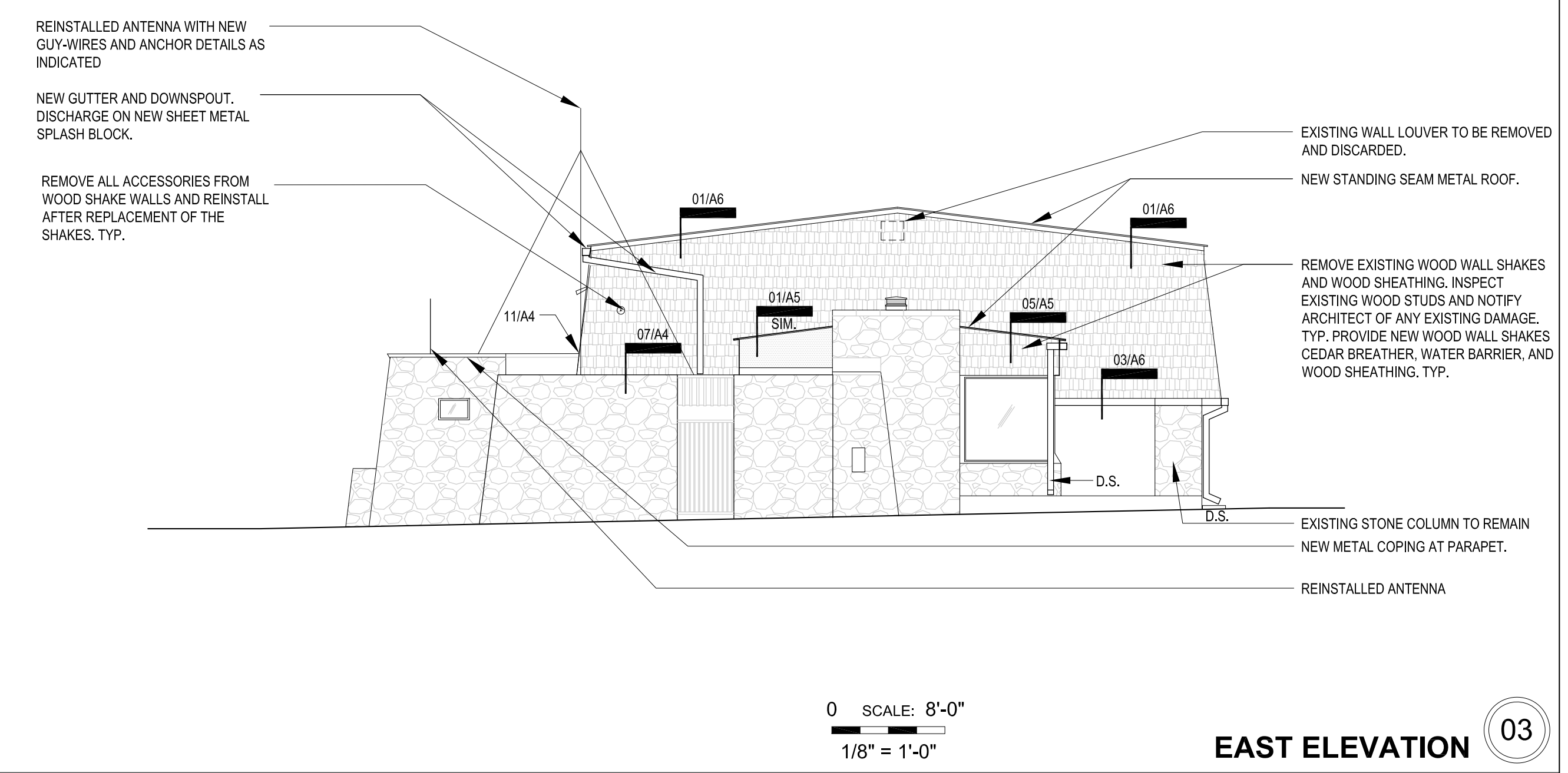


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1/8" = 1'-0"

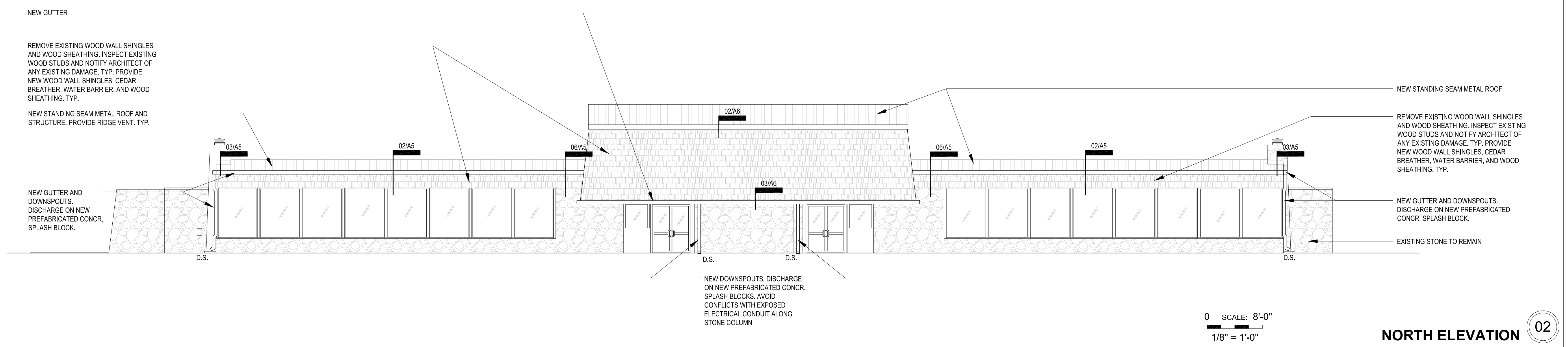
**HEADQUARTERS
PROPOSED ROOF PLAN 01**



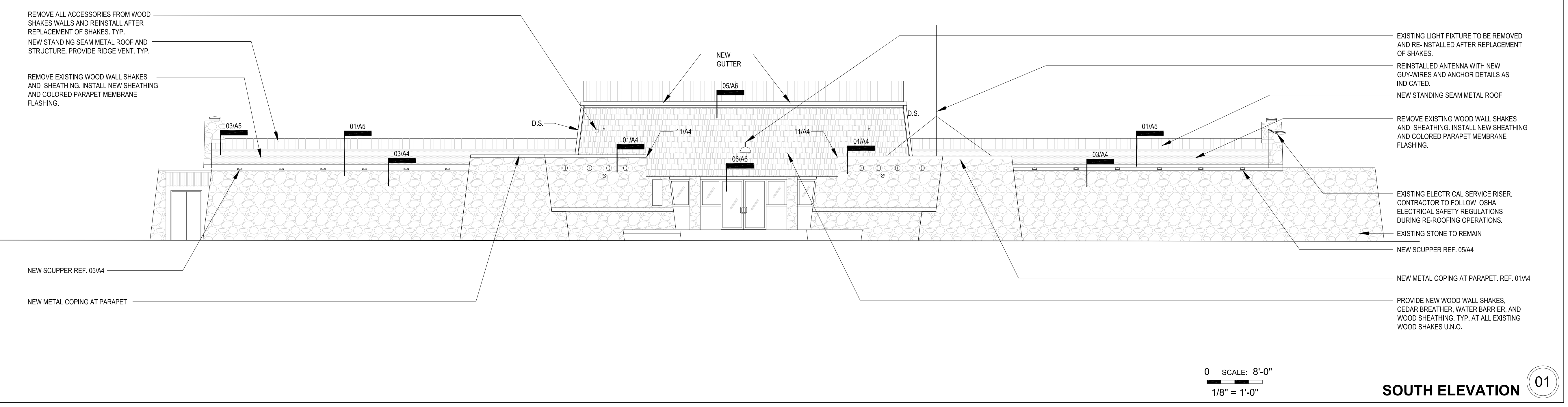
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1/8" = 1'-0"
WEST ELEVATION 04



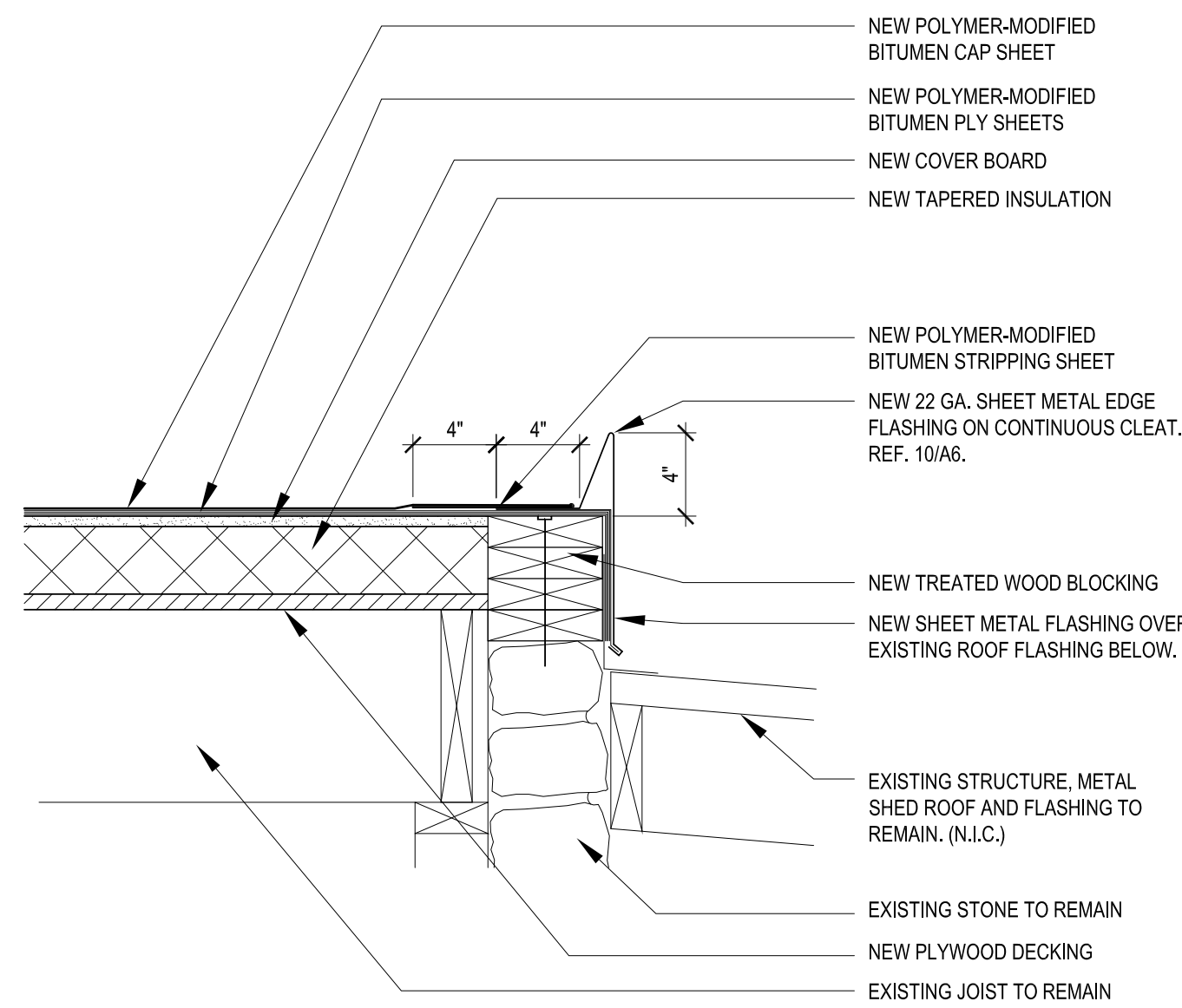
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1/8" = 1'-0"
EAST ELEVATION 03



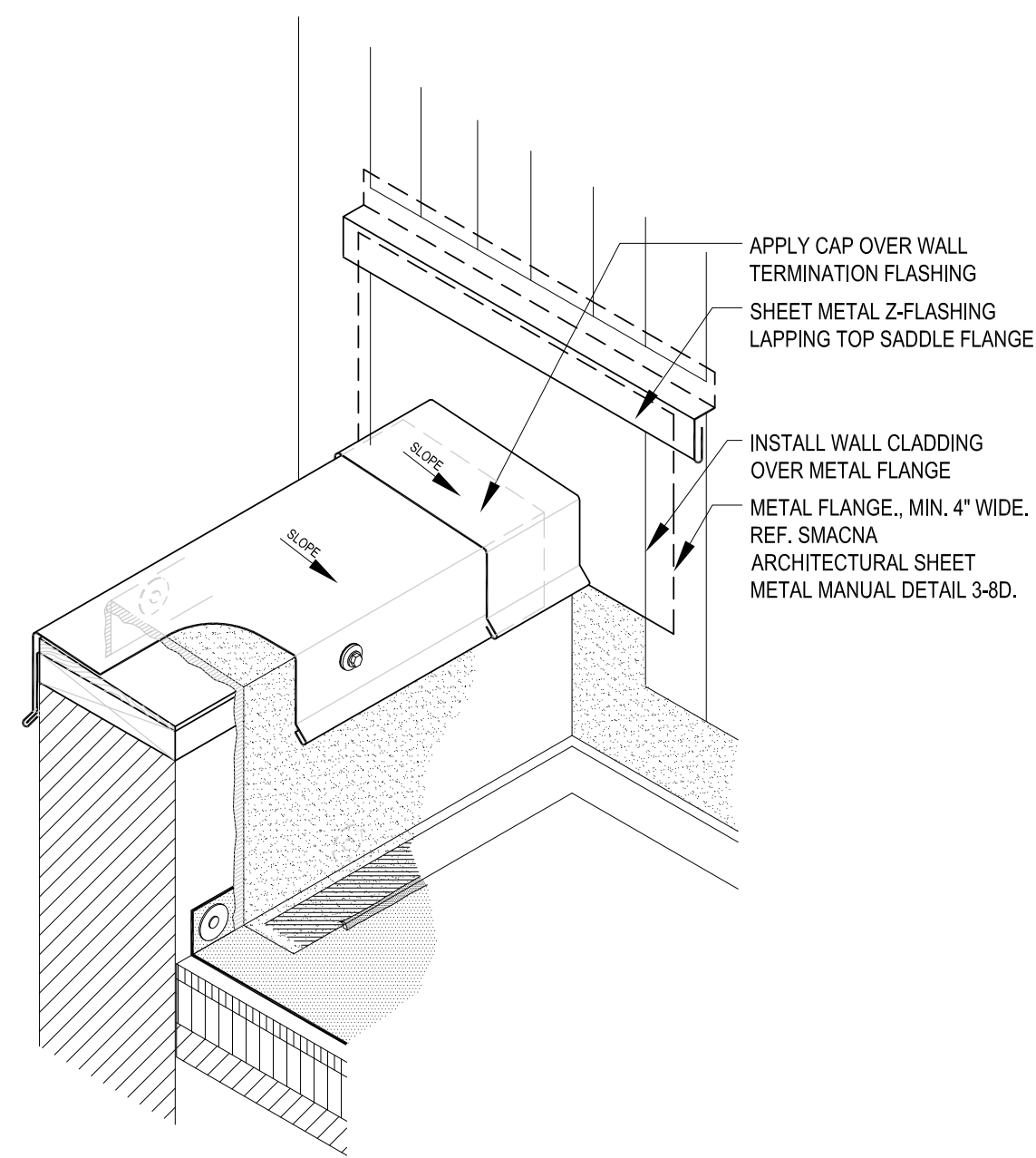
0 SCALE: 8'-0"
1/8" = 1'-0"
NORTH ELEVATION 02



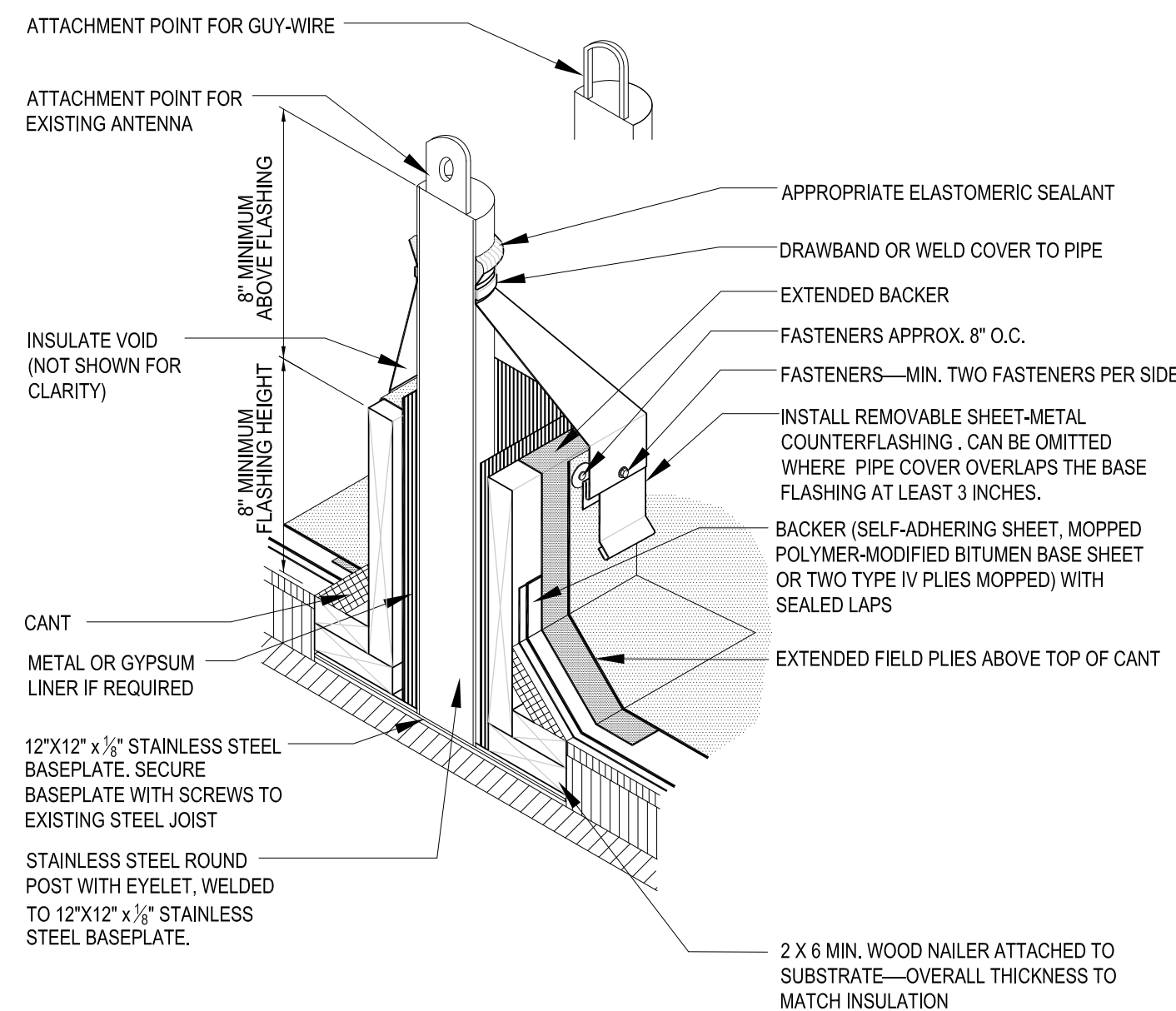
0 SCALE: 8'-0"
1/8" = 1'-0"
SOUTH ELEVATION 01



0 SCALE: 8"
1-1/2" = 1'-0" **MOD. BIT. ROOF TRANSITION TO EXISTING METAL SHED ROOF** 12



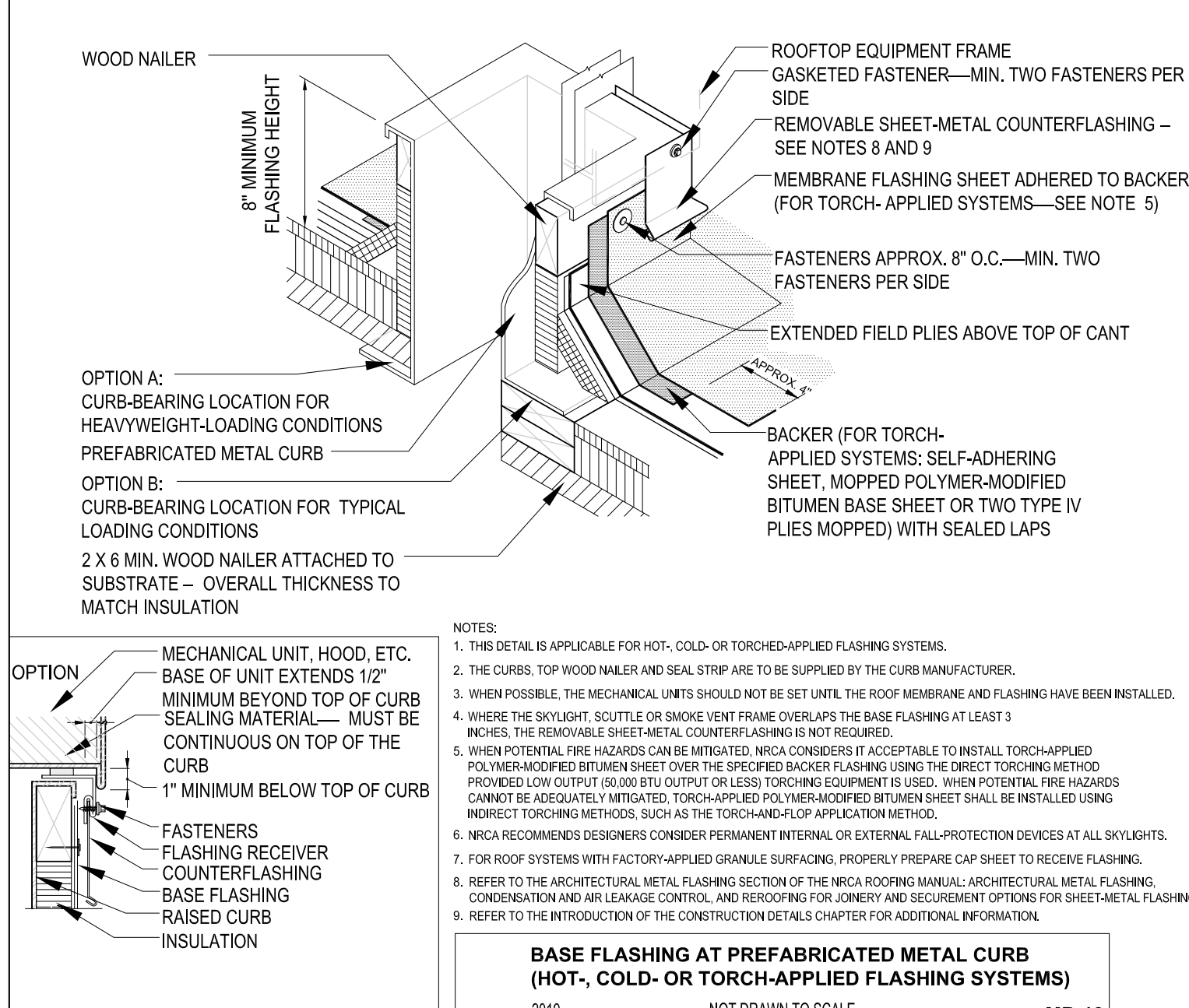
0 SCALE: 2"
6" = 1'-0" **DETAIL AT PARAPET - SHAKE WALL INTERFACE** 11



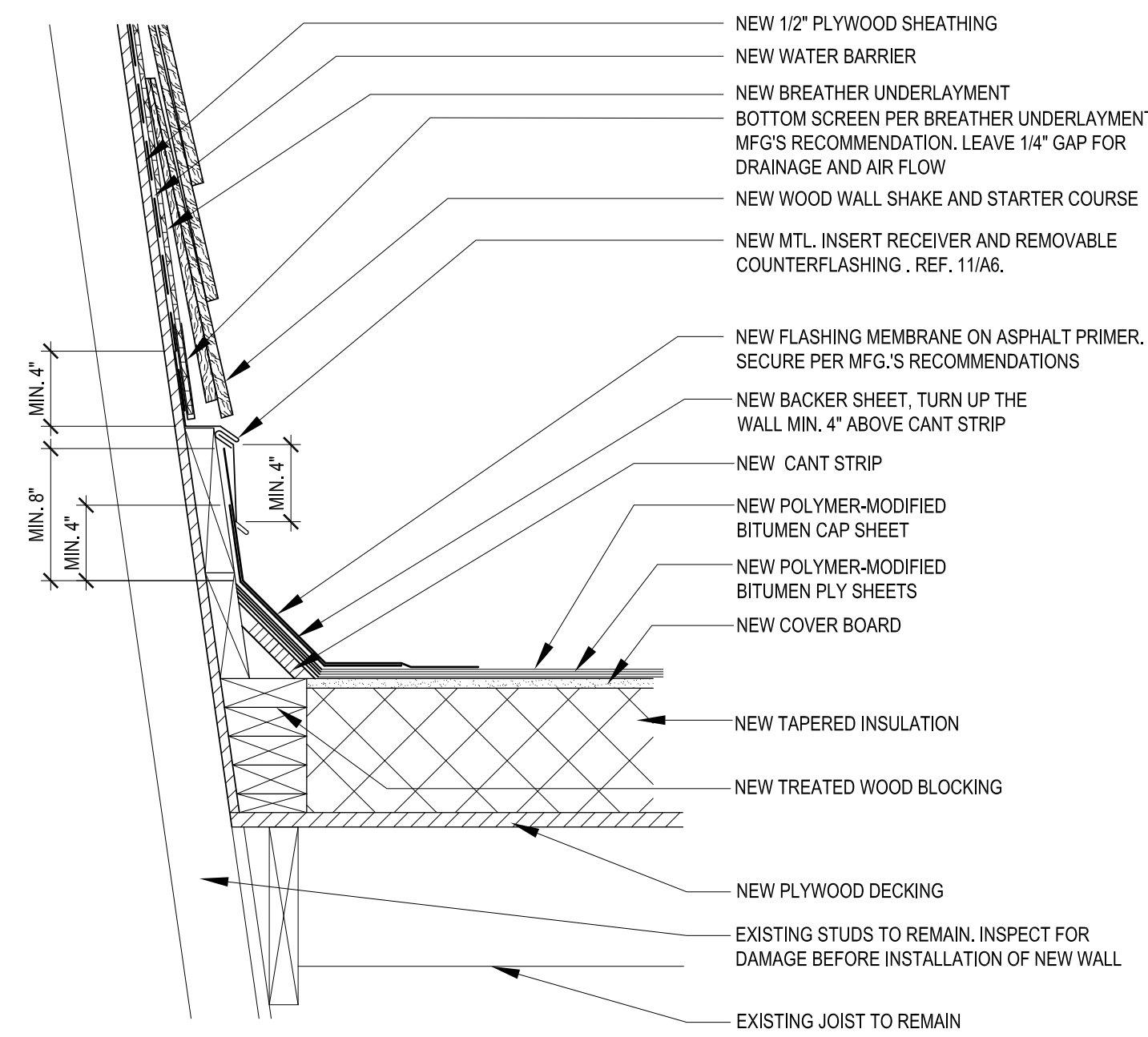
SCALE: N.T.S. **ANTENNA ANCHOR DETAIL** 10

NOTES:
1. DETAILS ARE FROM NATIONAL ROOFING CONTRACTOR'S ASSOCIATION WHERE NOTED.
2. FOLLOW INSTALLATION DETAILS AND GUIDELINES FROM ROOFING PRODUCT MANUFACTURER.
3. IF DETAILS DO NOT EXIST FOR A PARTICULAR SITUATION, CONTACT ARCHITECT BEFORE PROCEEDING.

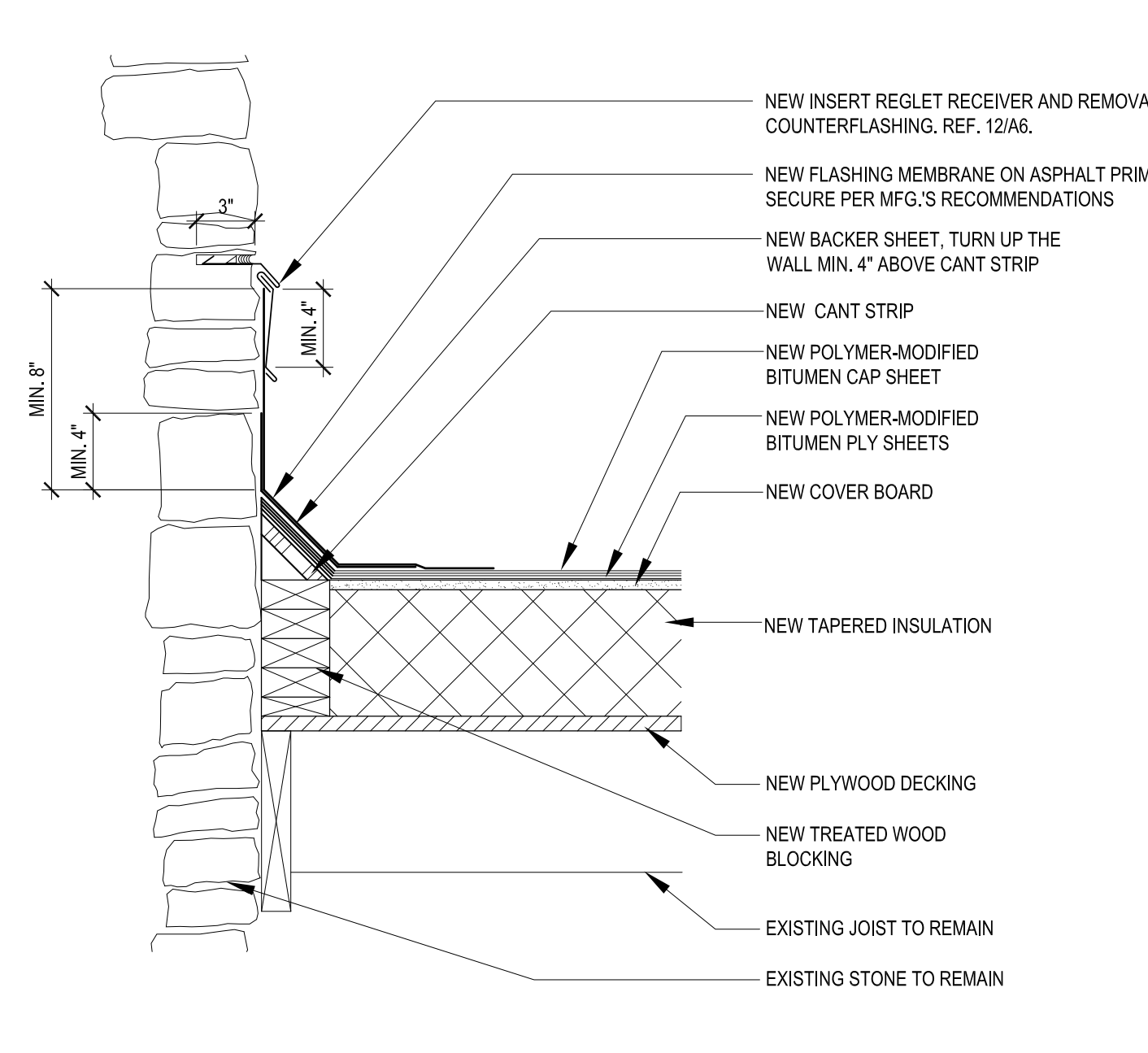
SCALE: N.T.S. **NOT USED** 09



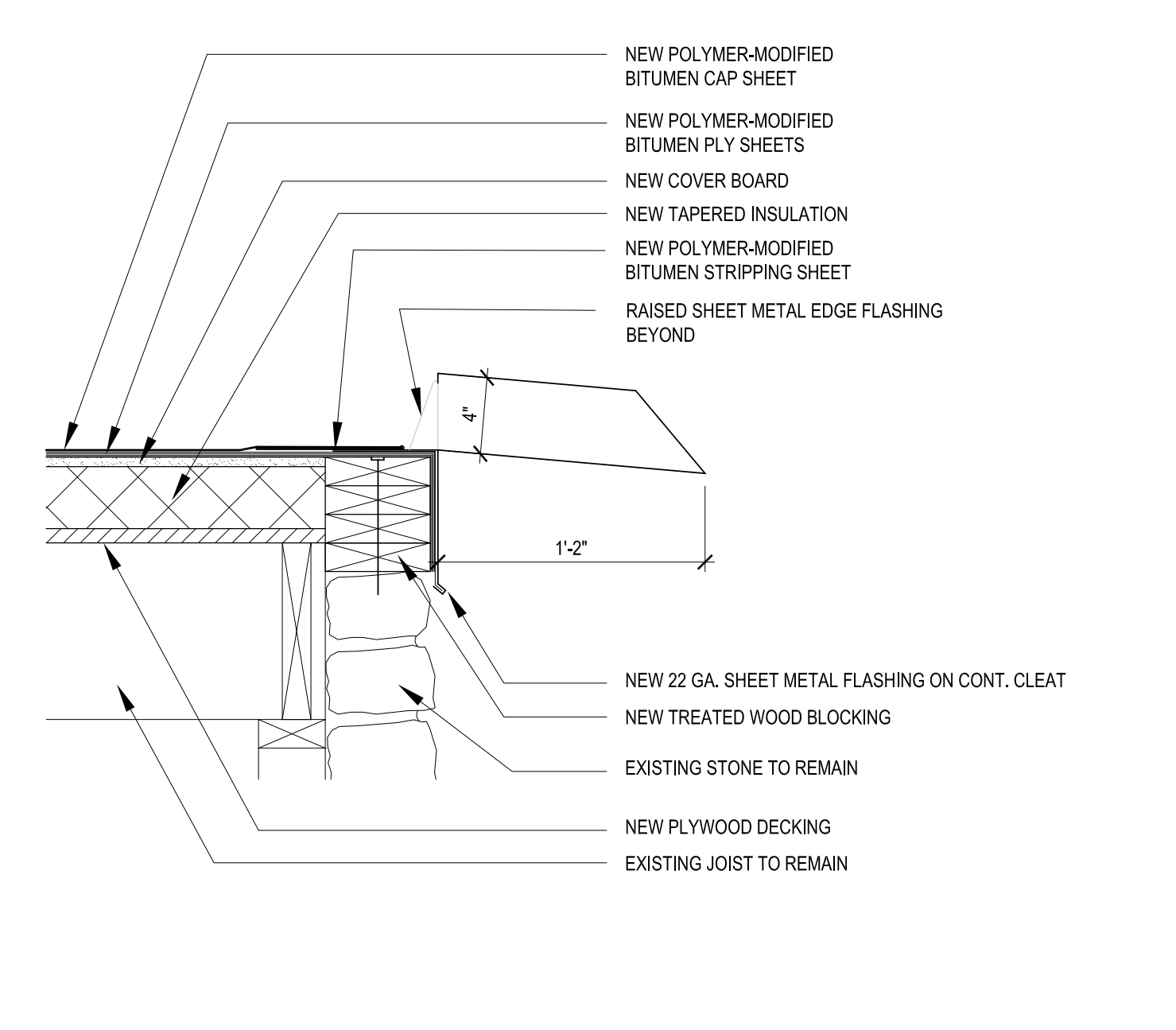
SCALE: N.T.S. **NRCA TYP. DETAIL AT EQUIPMENT ROOF CURB** 08



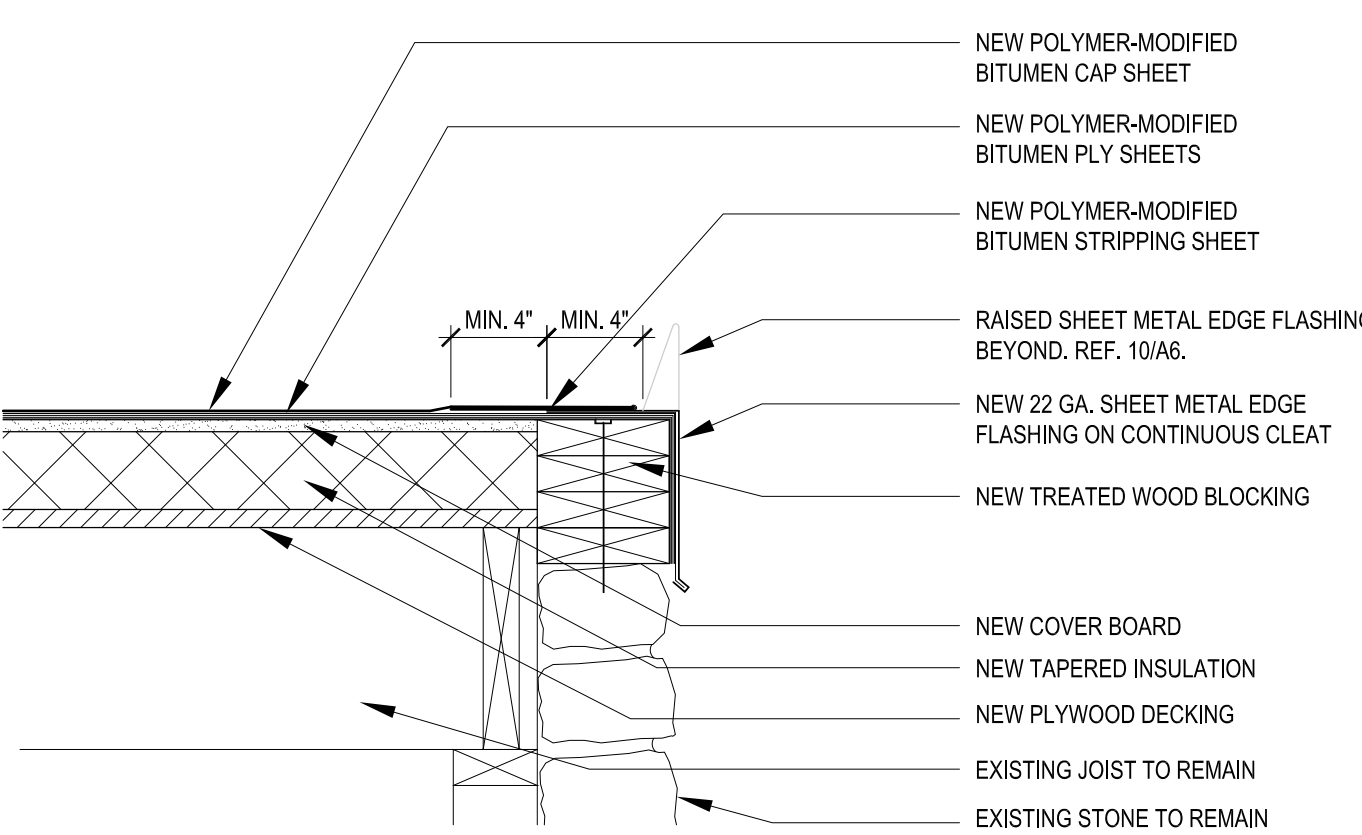
0 SCALE: 8"
1-1/2" = 1'-0" **SHAKE WALL AT MOD. BIT. ROOF DETAIL** 07



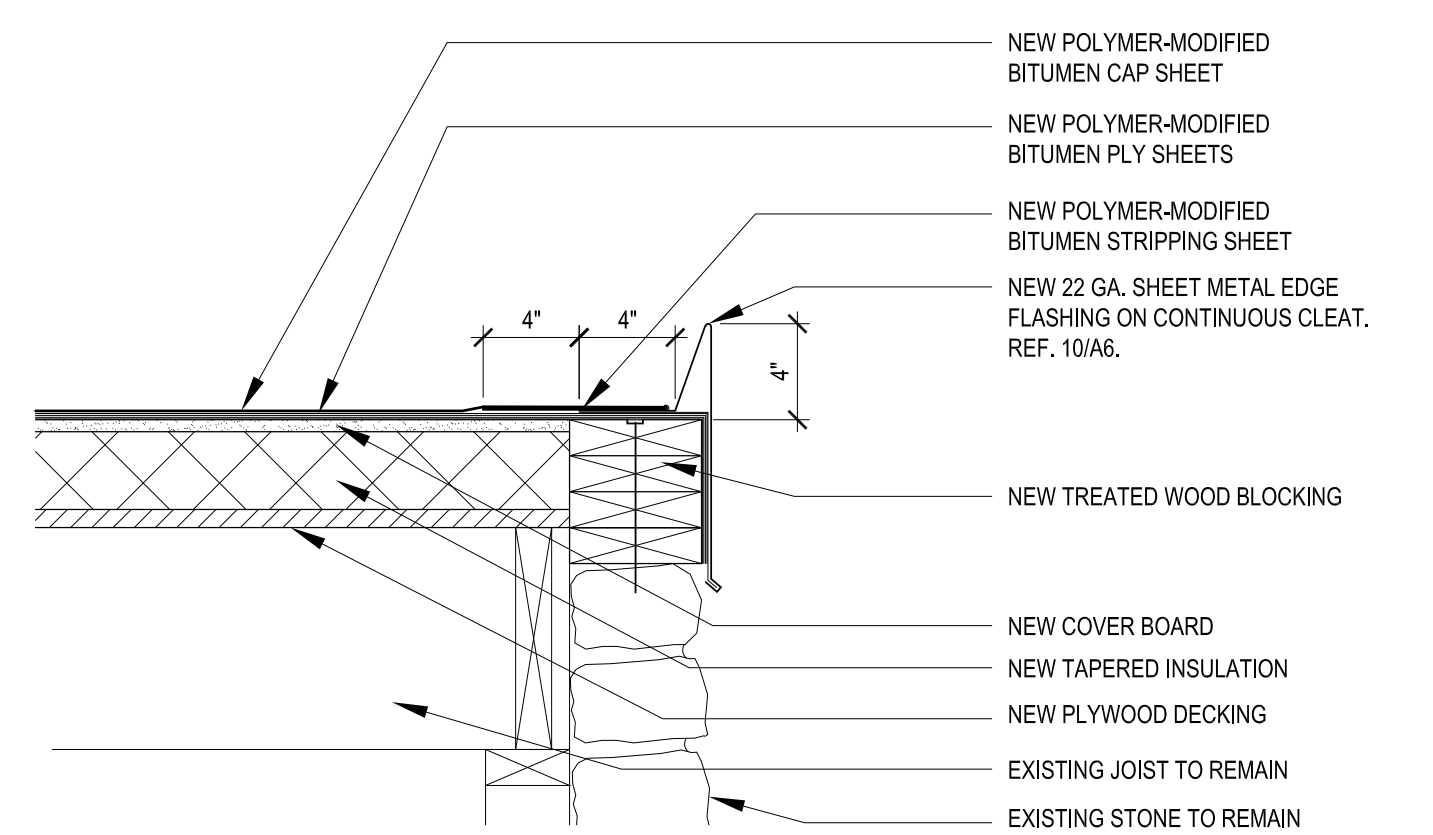
0 SCALE: 8"
1-1/2" = 1'-0" **FLASHING AT CHIMNEY DETAIL** 06



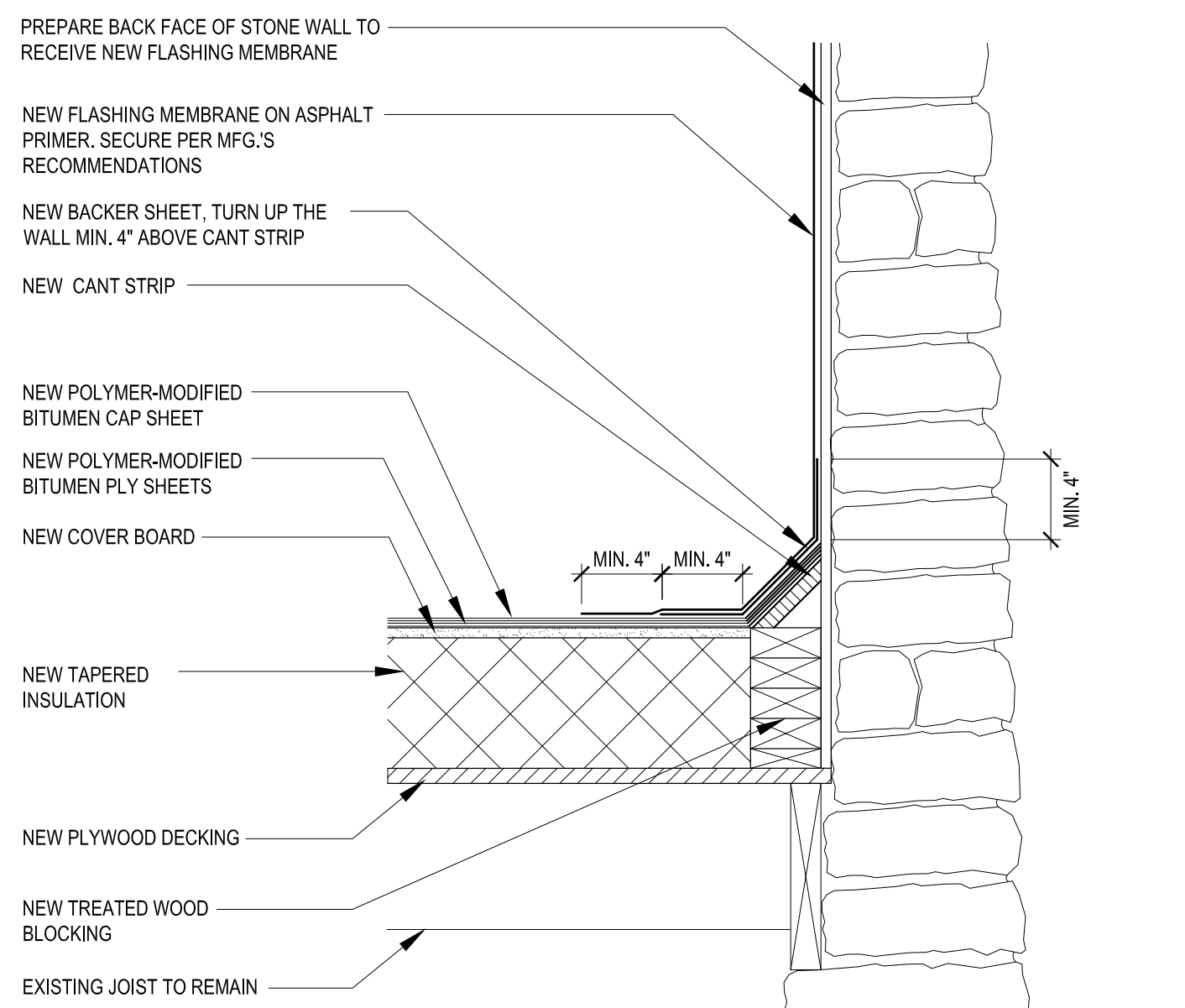
0 SCALE: 8"
1-1/2" = 1'-0" **MODIFIED BIT. SCUPPER DETAIL** 05



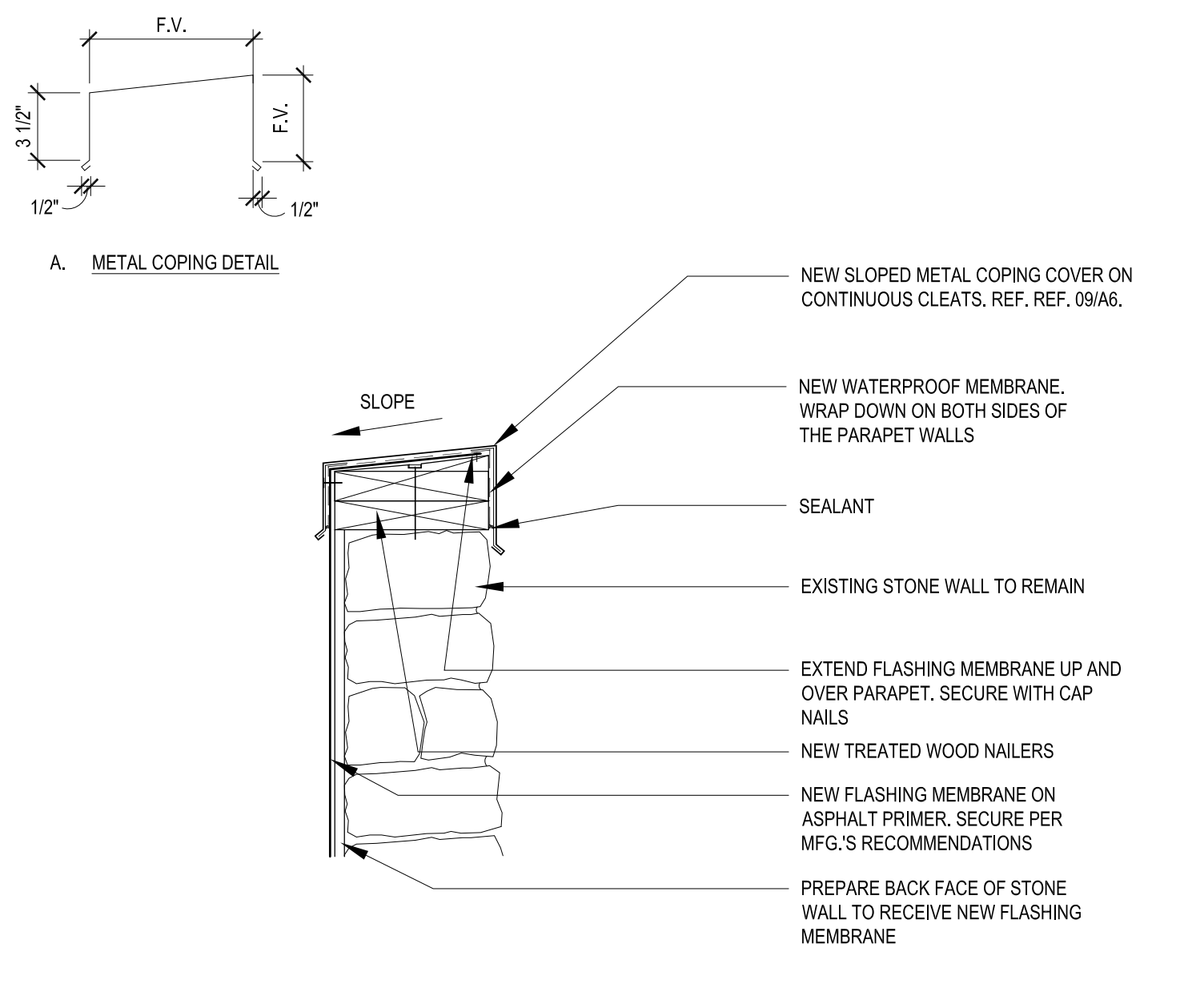
0 SCALE: 8"
1-1/2" = 1'-0" **MODIFIED BIT. ROOF EDGE DETAIL** 04



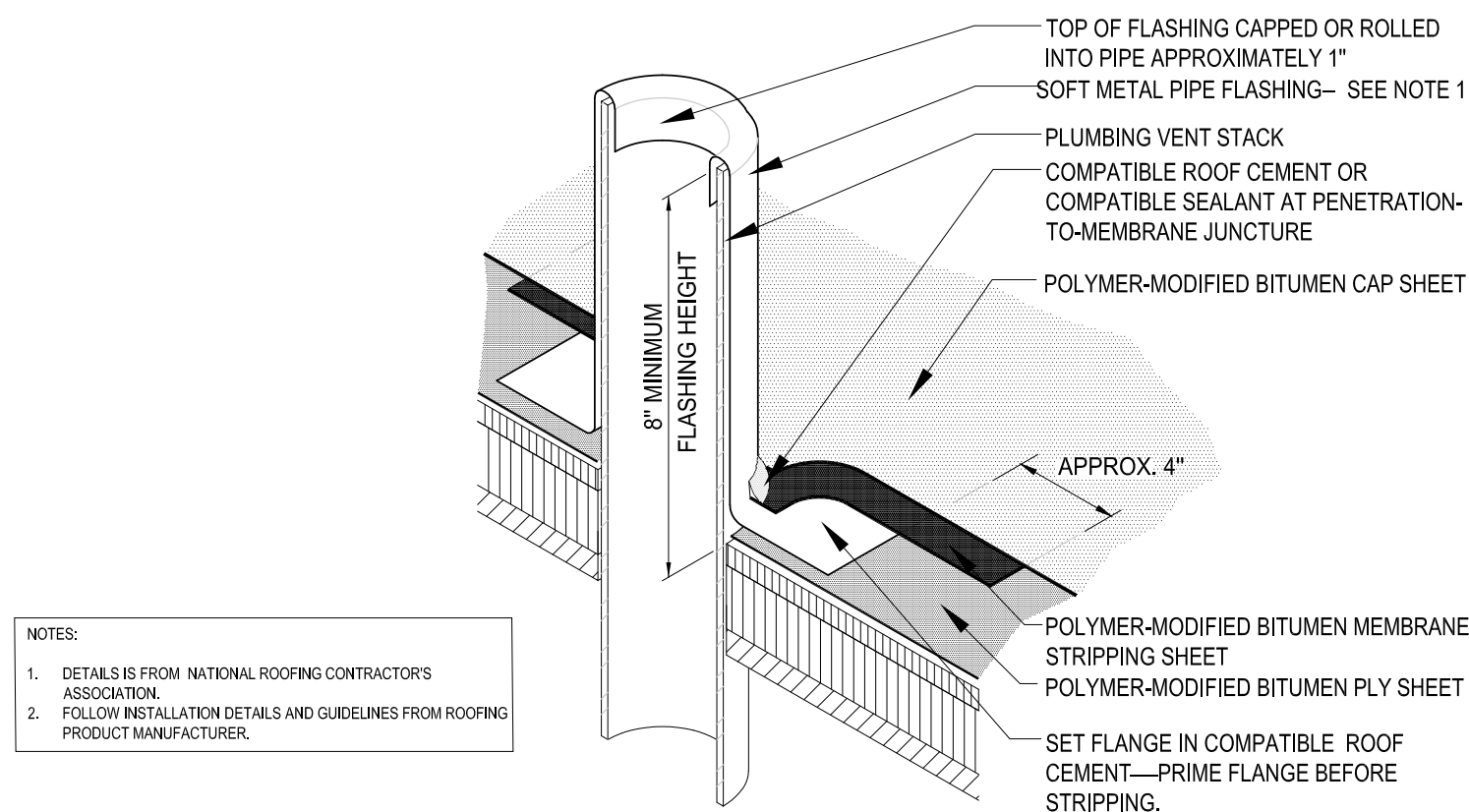
0 SCALE: 8"
1-1/2" = 1'-0" **MODIFIED BIT. RAISED EDGE DETAIL** 03



0 SCALE: 8"
1-1/2" = 1'-0" **PARAPET BASE AT MODIFIED BIT ROOF DETAIL** 02



0 SCALE: 8"
1-1/2" = 1'-0" **PARAPET COPING DETAIL** 01



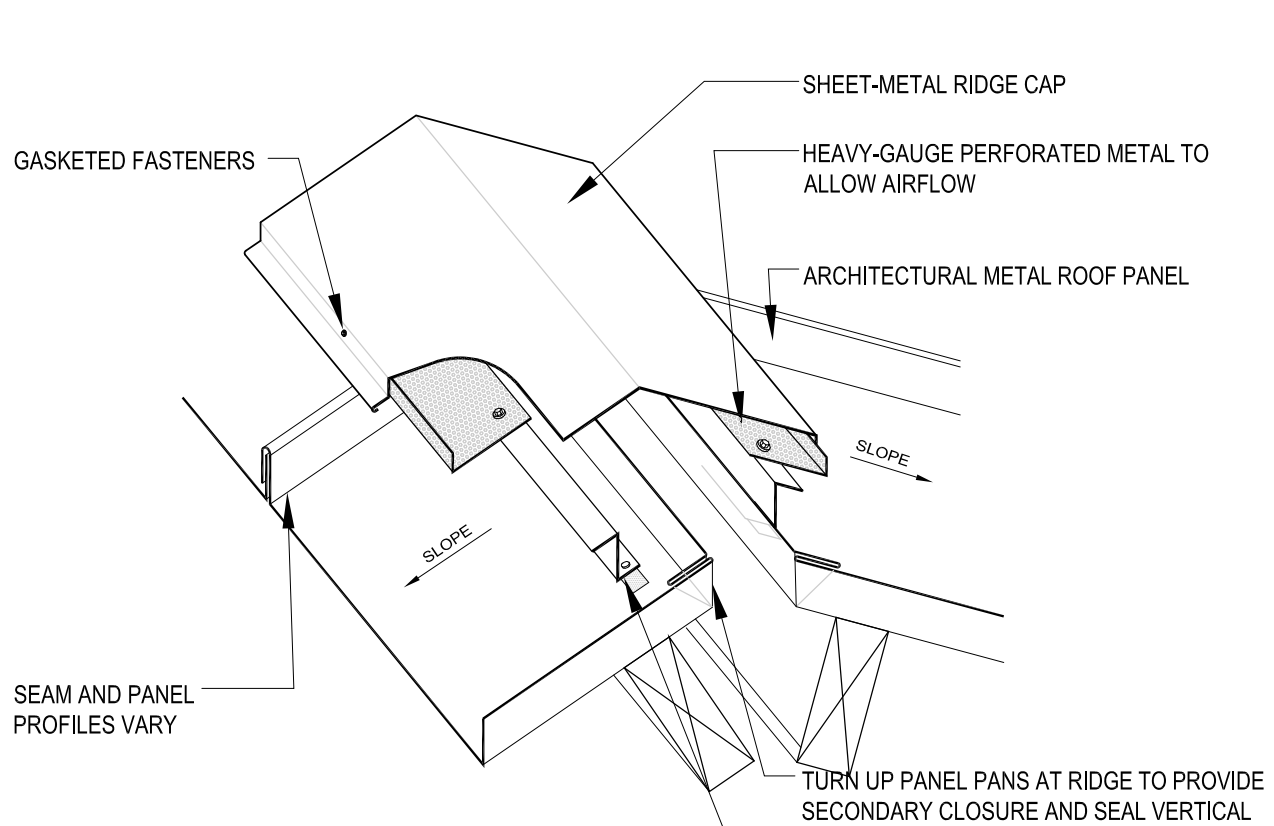
NOTES:
 1. DETAILS IS FROM NATIONAL ROOFING CONTRACTORS ASSOCIATION.
 2. FOLLOW INSTALLATION DETAILS AND GUIDELINES FROM ROOFING PRODUCT MANUFACTURER.

NOTES:
 1. THIS DETAIL IS APPLICABLE FOR HOT-, COLD- OR TORCH-APPLIED FLASHING SYSTEMS.
 2. SOFT METAL PIPE FLASHING:
 SHEET LEAD: MINIMUM OF 2 LBS. PER SQUARE FOOT OR SHEET COPPER, MINIMUM 16 OZ.
 PRECAUTIONS SHOULD BE TAKEN NOT TO DAMAGE THE SHEET LEAD WHEN USING HEAT WELDED APPLICATION.
 3. IF USING COPPER FLASHING OVER AN IRON OR STEEL PIPE, INSERT A SEPARATOR SHEET (E.G., ASPHALT-SATURATED ROOFING FELT) WRAPPED AROUND PIPE TO SEPARATE THE COPPER FLASHING FROM DIRECT CONTACT WITH PIPE AND REDUCE GALVANIC ACTION.
 4. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
 5. WHEN POTENTIAL FIRE HAZARDS CAN BE MITIGATED, NRCA CONSIDERS IT ACCEPTABLE TO INSTALL TORCH-APPLIED POLYMER-MODIFIED BITUMEN SHEET OVER THE SPECIFIED BRACKER FLASHING USING THE DIRECT TORCHING METHOD PROVIDED LOW OUTPUT (LOW BTU) ONLY TORCHING EQUIPMENT IS USED. WHEN POTENTIAL FIRE HAZARDS CANNOT BE ADEQUATELY MITIGATED, TORCH-APPLIED POLYMER-MODIFIED BITUMEN SHEET SHALL BE INSTALLED USING INDIRECT TORCHING METHODS, SUCH AS THE TORCH-AND-FLOOR APPLICATION METHOD.
 6. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

PLUMBING VENT (HOT-, COLD- OR TORCH-APPLIED FLASHING SYSTEMS)
 2019 NOT DRAWN TO SCALE MB-19

SCALE:
 N.T.S.

NRCA ROOF PENETRATION DETAIL 10



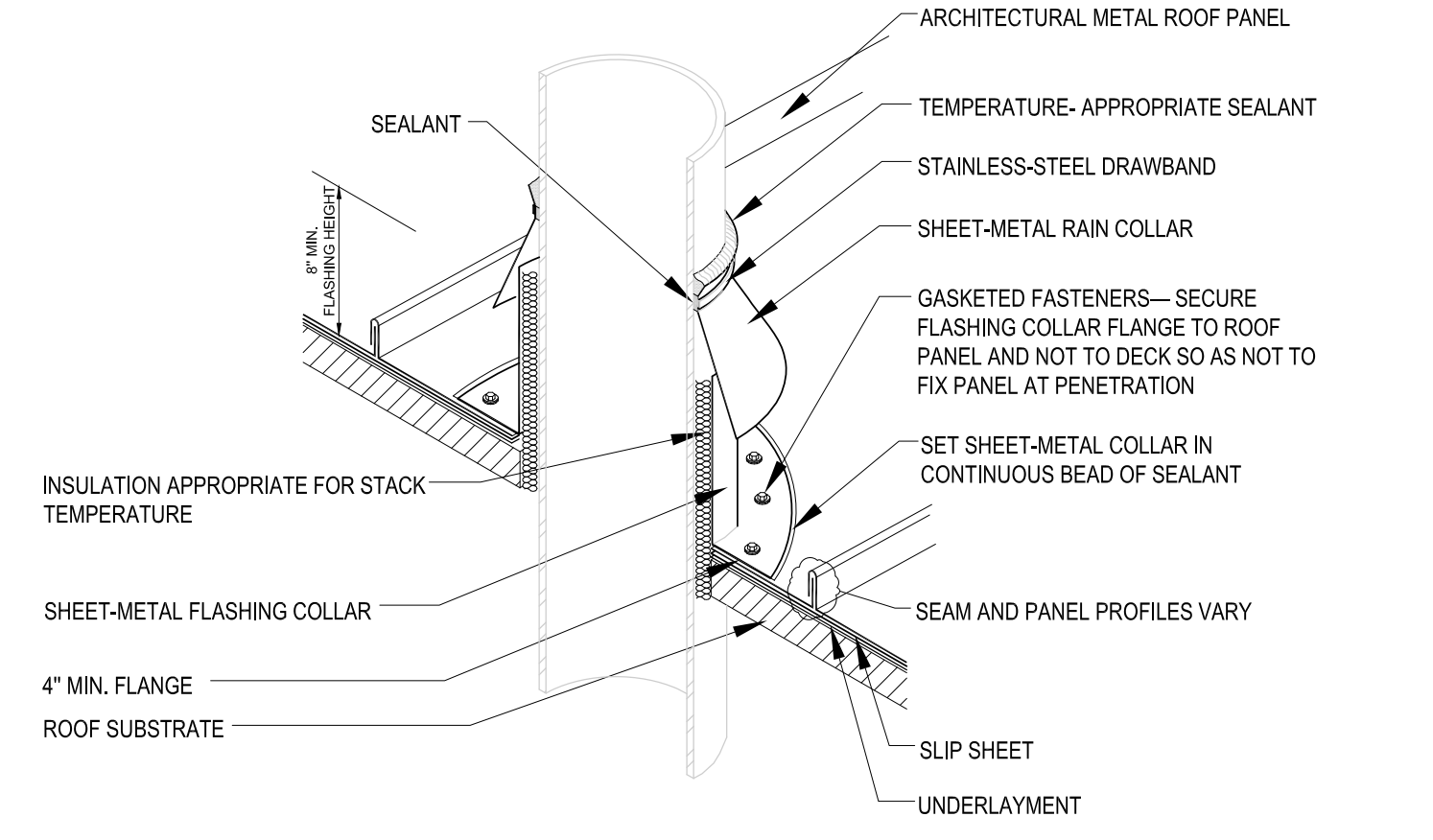
NOTES:
 1. DETAILS IS FROM NATIONAL ROOFING CONTRACTORS ASSOCIATION.
 2. FOLLOW INSTALLATION DETAILS AND GUIDELINES FROM ROOFING PRODUCT MANUFACTURER.

NOTES:
 1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
 2. IF THE Z-CLOSURE IS FASTENED THROUGH THE ROOF DECK, THE PANELS ARE FIXED ALONG THE RIDGE. IF THE Z-CLOSURE IS FASTENED TO THE PANELS WITH POP RIVETS OR SOLDERED, THE PANELS ARE NOT FIXED AT THE RIDGE (I.E. FLOATING).
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

VENTING RIDGE CAP FLASHING
 2016 NOT DRAWN TO SCALE AM-7

SCALE:
 N.T.S.

NRCA VENTED RIDGE DETAIL 09



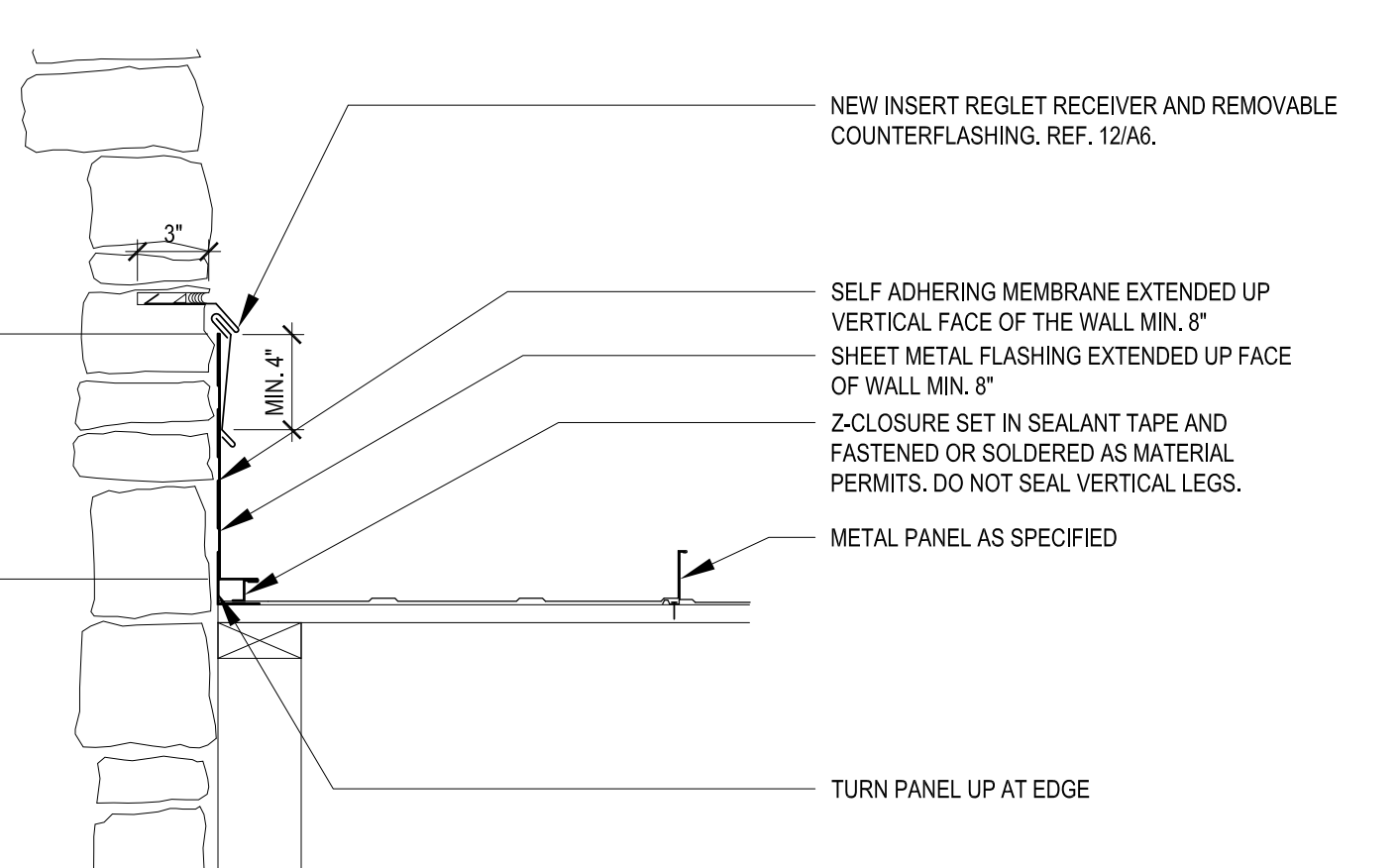
NOTES:
 1. DETAILS IS FROM NATIONAL ROOFING CONTRACTORS ASSOCIATION.
 2. FOLLOW INSTALLATION DETAILS AND GUIDELINES FROM ROOFING PRODUCT MANUFACTURER.

NOTES:
 1. NRCA STRONGLY RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
 2. VENT STACKS AND OTHER PIPES SHOULD HAVE ADEQUATE CLEARANCE ON ALL SIDES FROM WALLS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING AND PANEL DRAINAGE.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

SHEET-METAL STACK VENT (HOT OR COLD)
 2016 NOT DRAWN TO SCALE AM-16

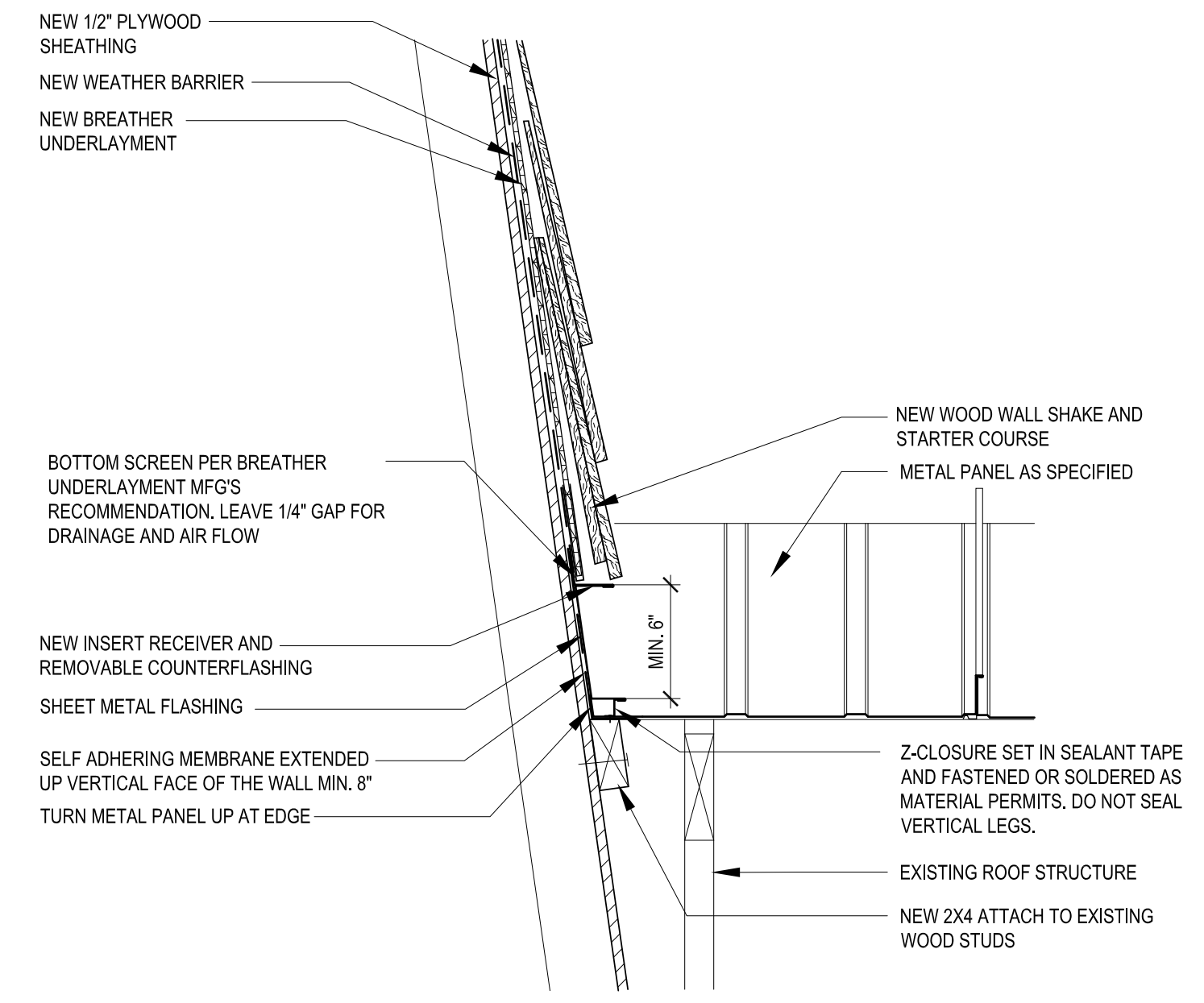
SCALE:
 N.T.S.

NRCA STACK VENT DETAIL 08



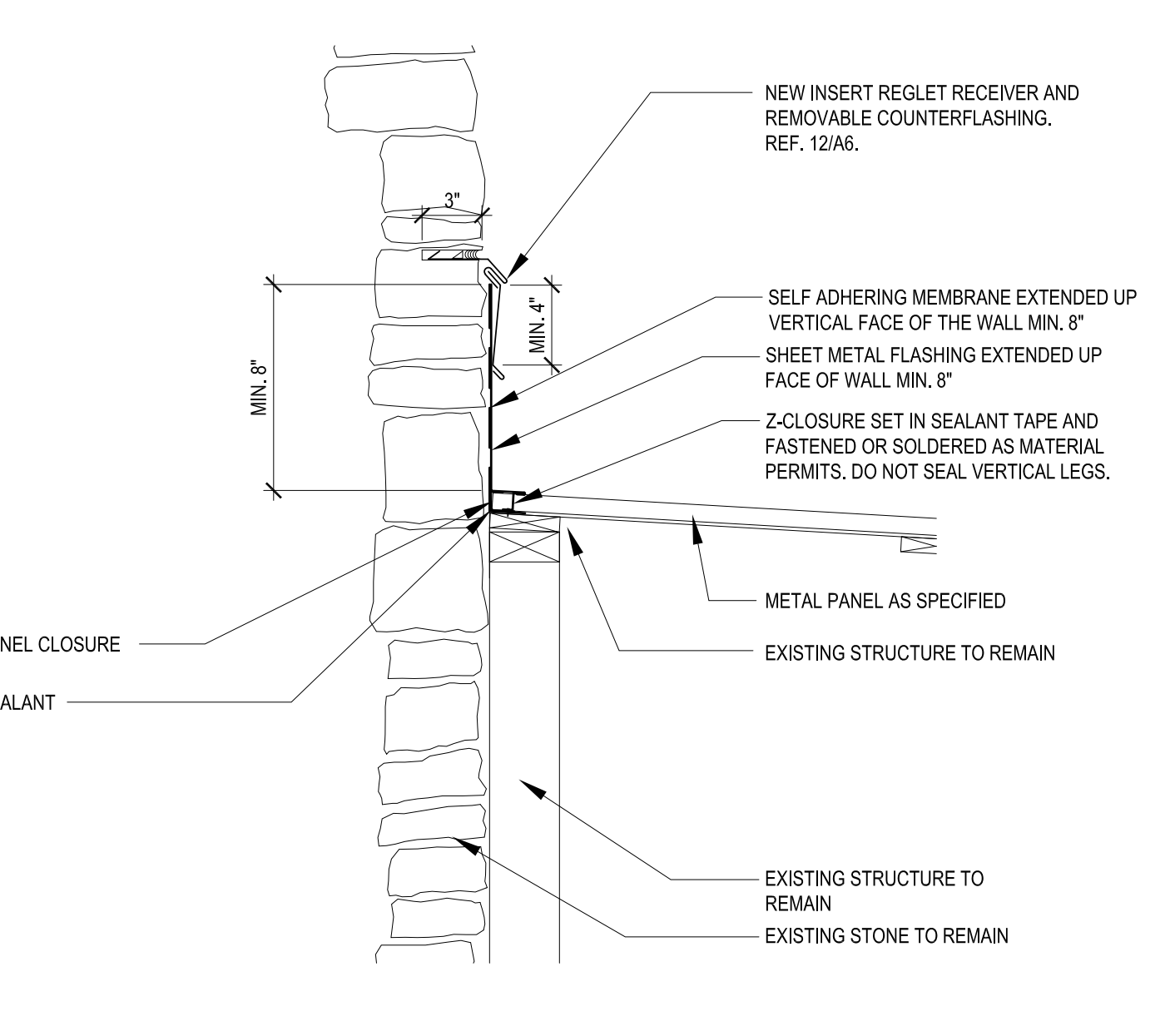
SCALE:
 1-1/2" = 1'-0"

NRCA CHIMNEY SIDEWALL AT METAL PANEL ROOF 07



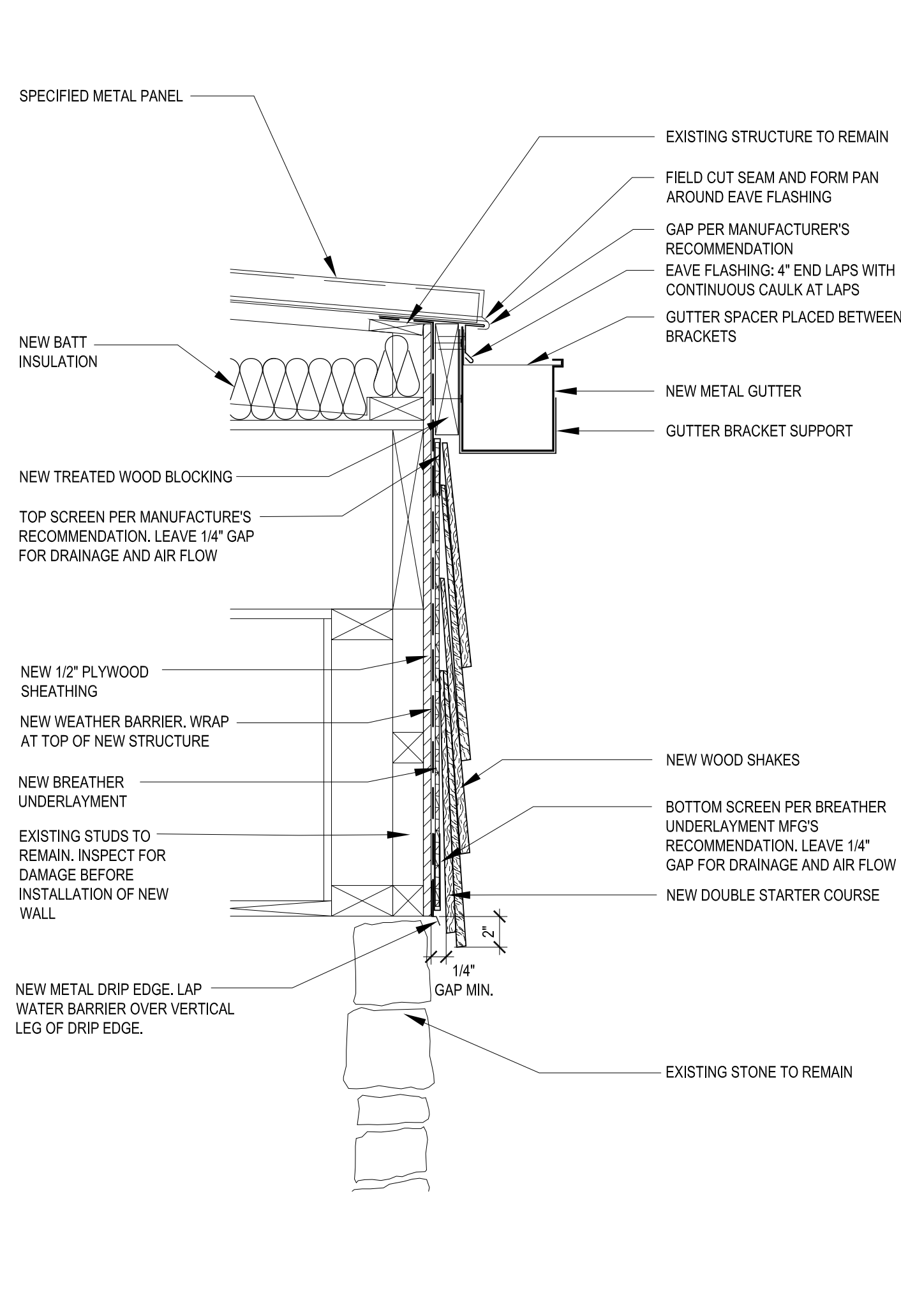
SCALE:
 1-1/2" = 1'-0"

NRCA SIDEWALL DETAIL AT METAL PANEL ROOF 04



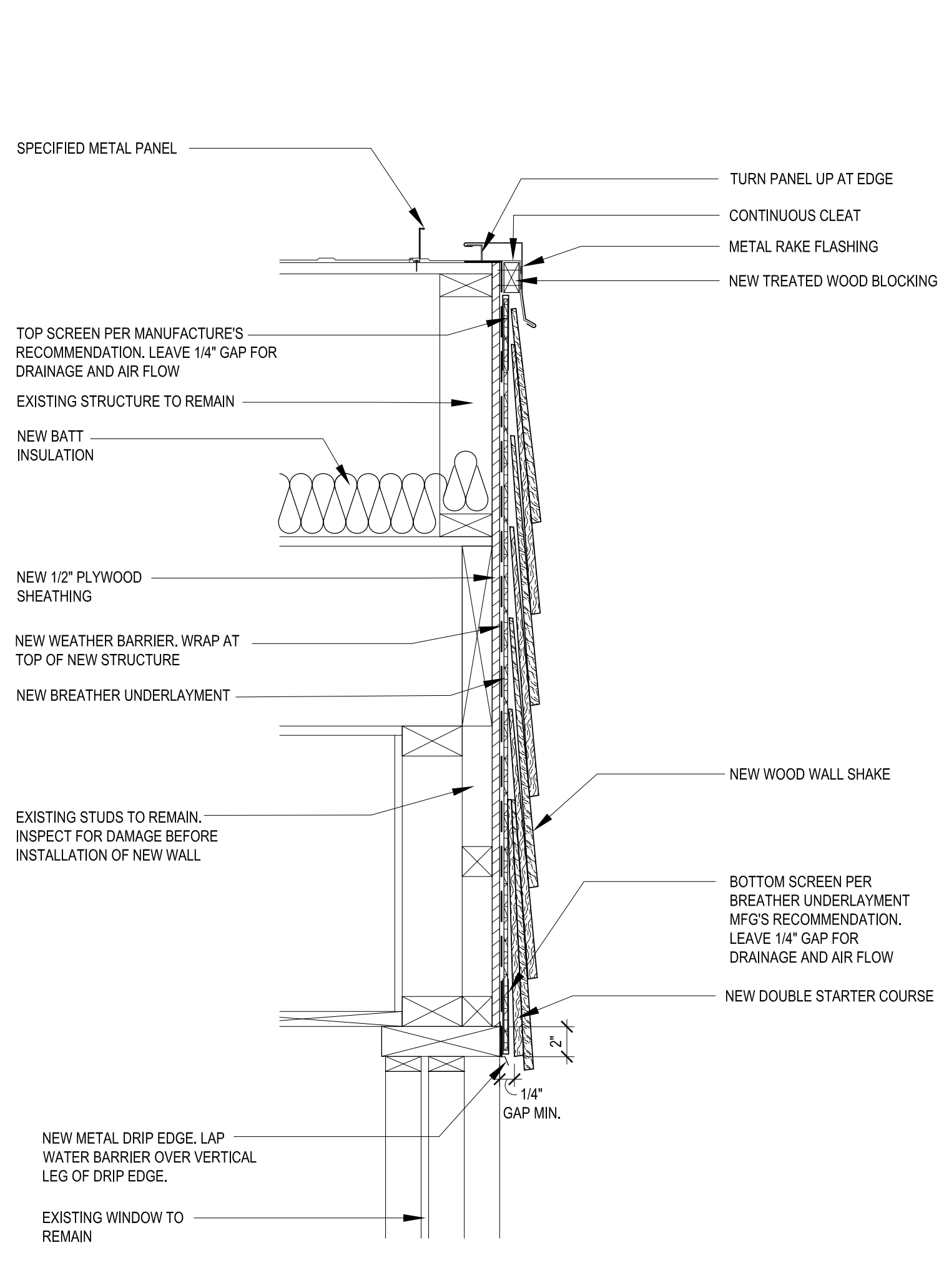
SCALE:
 1-1/2" = 1'-0"

NRCA STONE CHIMNEY HEADWALL AT METAL PANEL ROOF 03



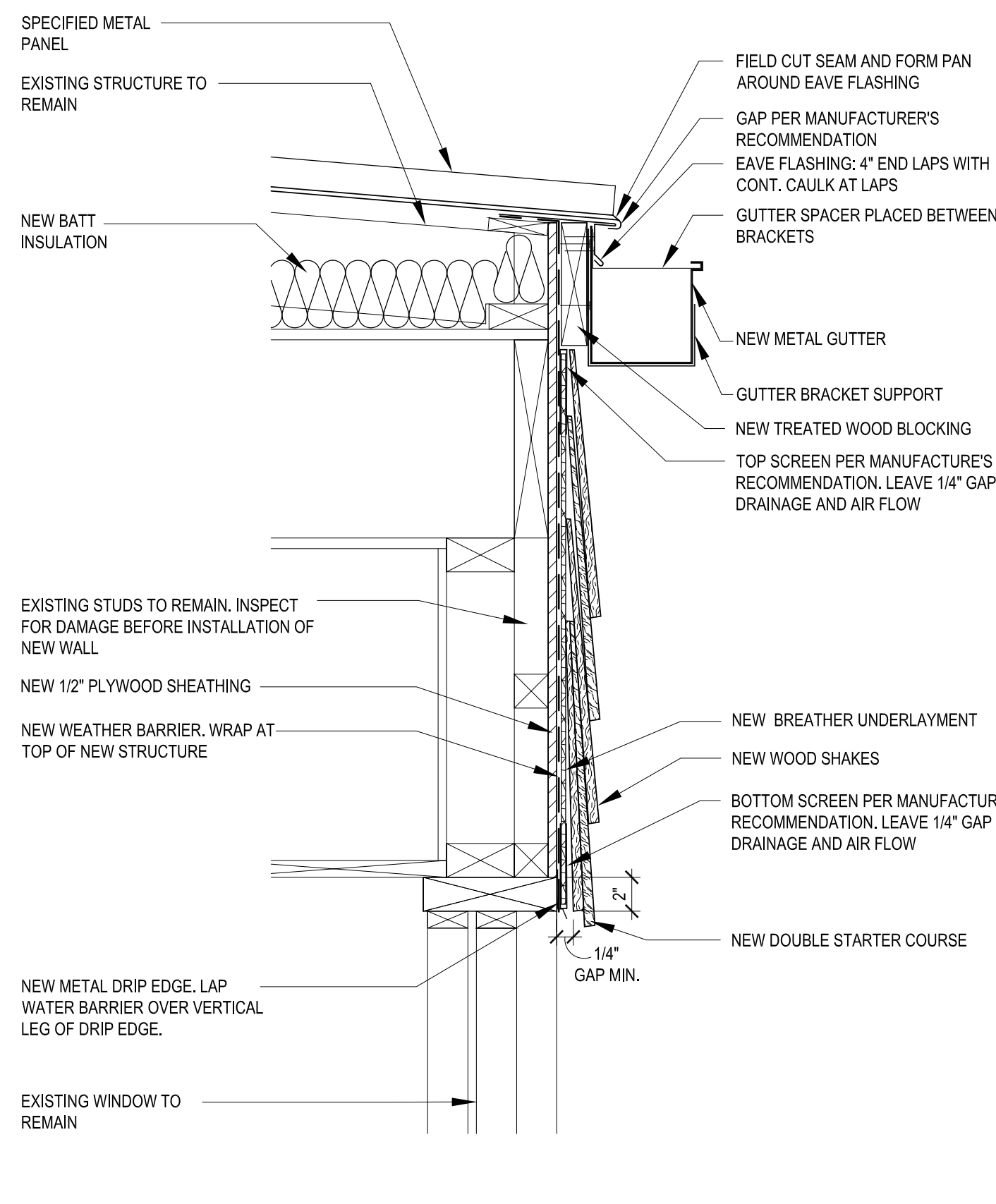
SCALE:
 1-1/2" = 1'-0"

METAL ROOF EAVE @ WALL DETAIL 06



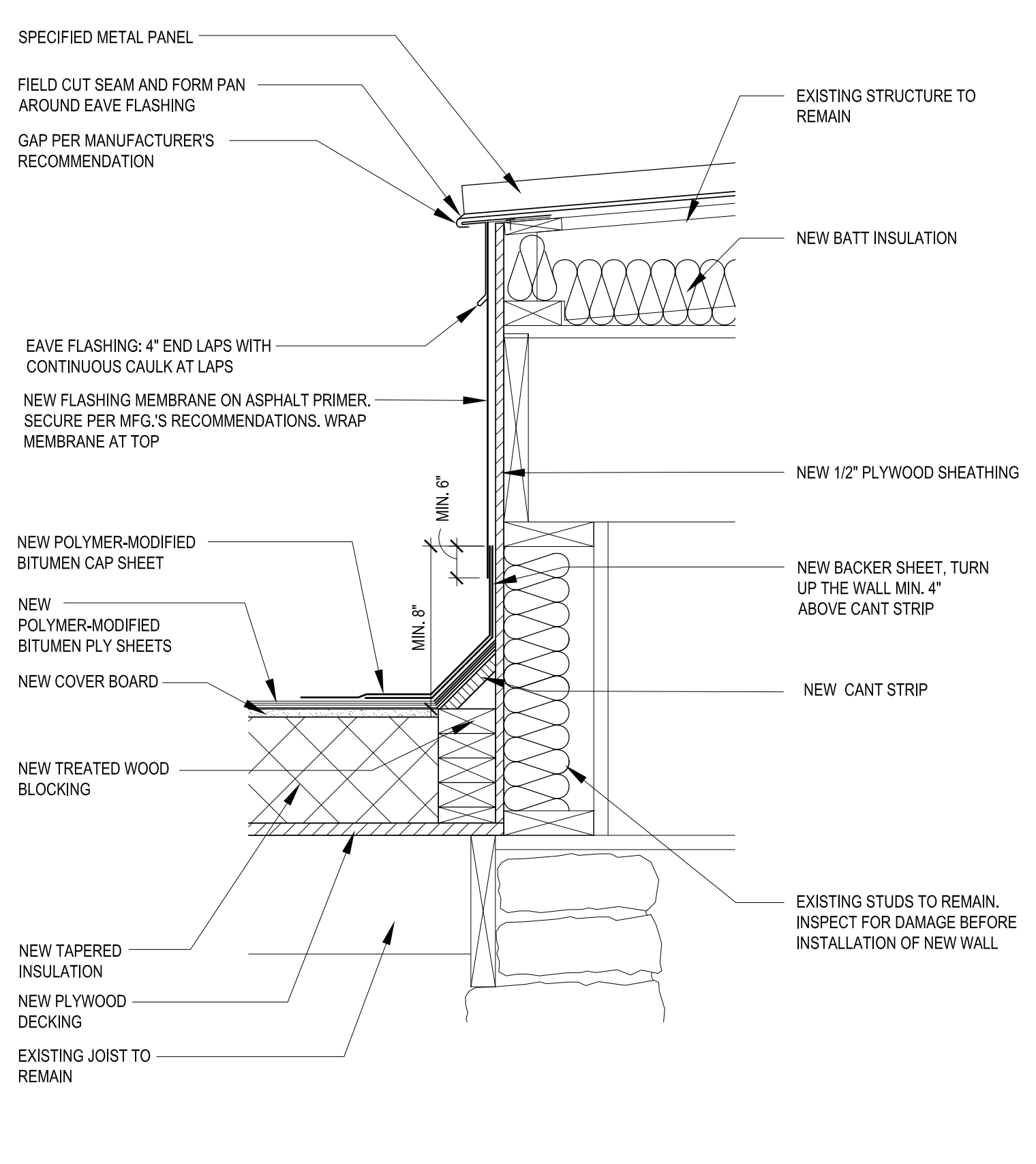
SCALE:
 1-1/2" = 1'-0"

RAKE DETAIL AT METAL PANEL ROOF 05



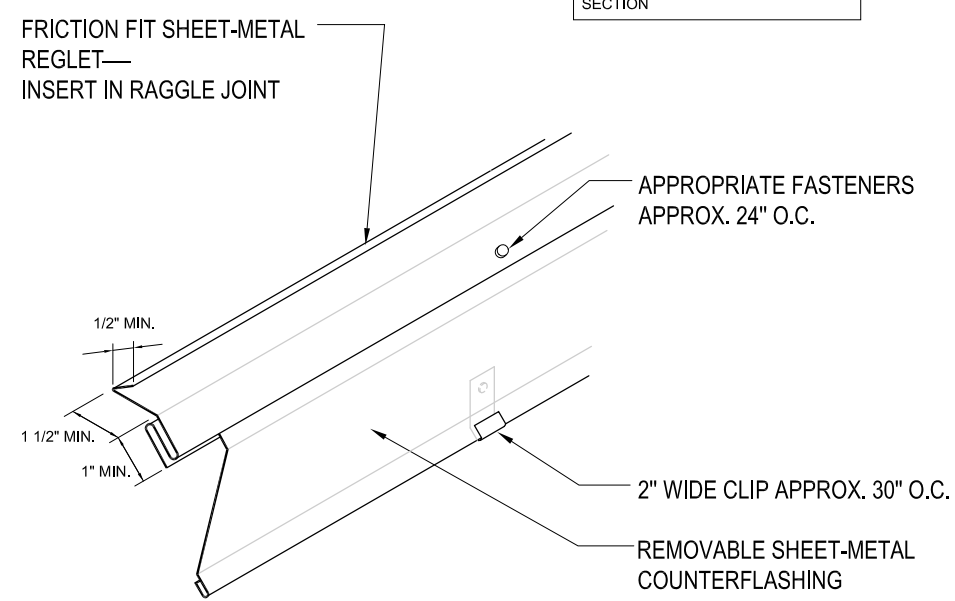
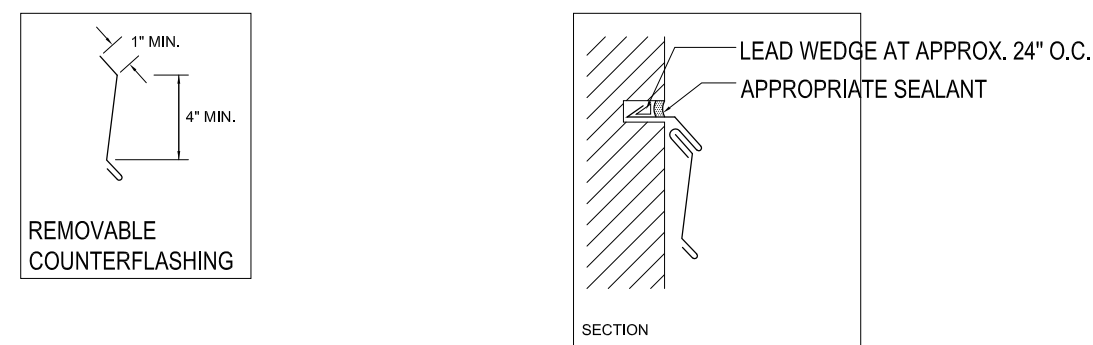
SCALE:
 1-1/2" = 1'-0"

METAL ROOF EAVE @ WINDOW DETAIL 02



SCALE:
 1-1/2" = 1'-0"

EAVE DETAIL AT METAL PANEL ROOF 01

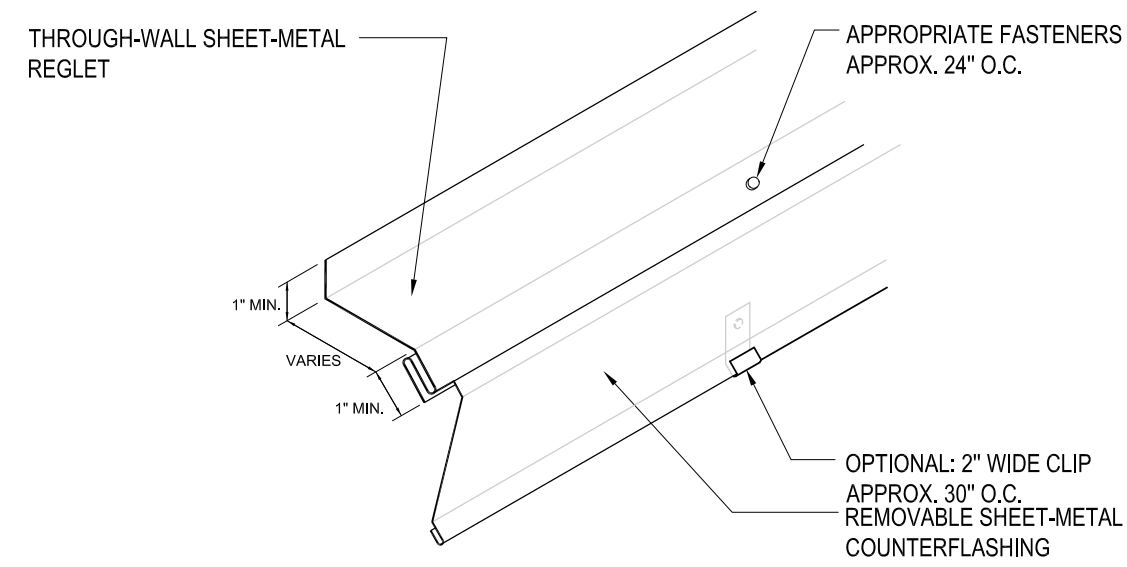
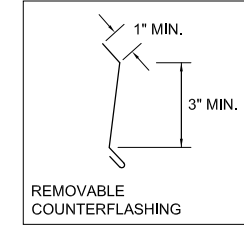


NOTES:
 1. ROOF MEMBRANE, BASE FLASHINGS AND METAL JOINERY NOT SHOWN FOR CLARITY.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

INSERT REGLET RECEIVER AND COUNTERFLASHING
 2018 NOT DRAWN TO SCALE CF-3

SCALE:
 N.T.S.

NRCA FLASHING DETAIL 12

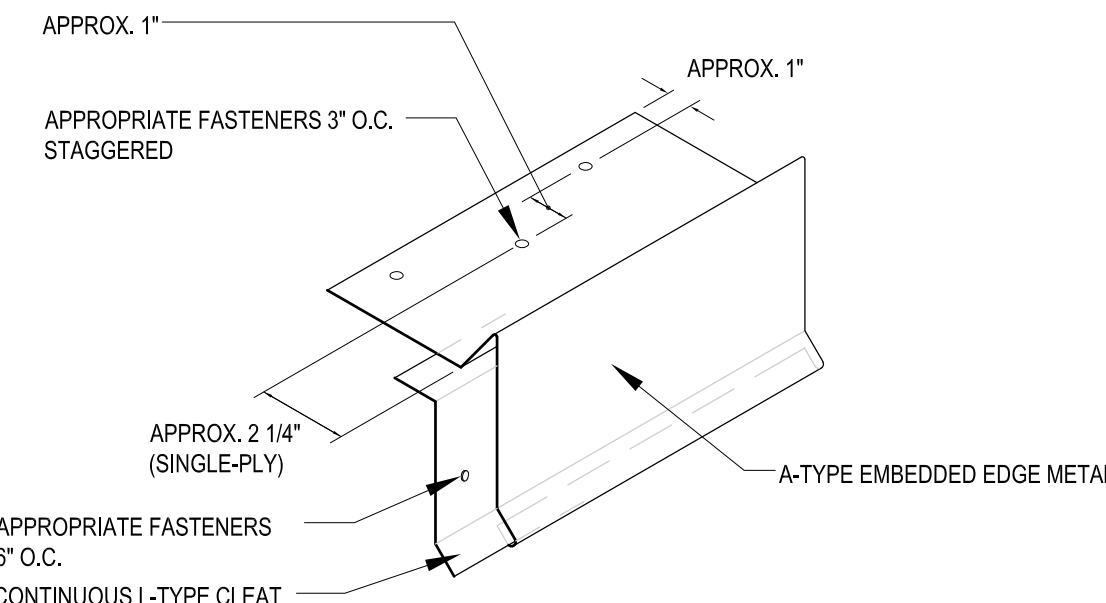


NOTES:
 1. ROOF MEMBRANE, BASE FLASHINGS AND METAL JOINERY NOT SHOWN FOR CLARITY.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

THROUGH-WALL REGLET RECEIVER AND COUNTERFLASHING
 2018 NOT DRAWN TO SCALE CF-1

SCALE:
 N.T.S.

NRCA FLASHING DETAIL 11

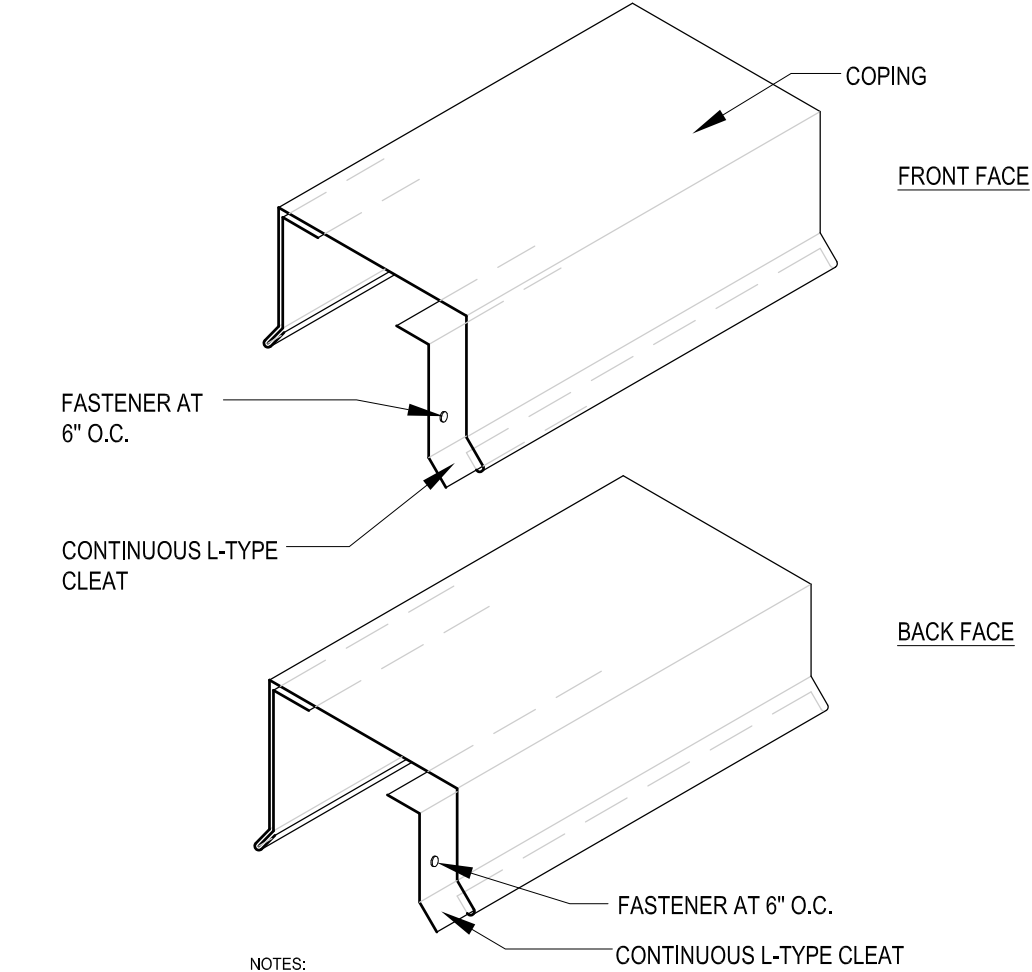


NOTES:
 1. ROOF MEMBRANE, ASSOCIATED FLASHINGS AND METAL JOINERY NOT SHOWN FOR CLARITY.
 2. NRCA HAS OBTAINED AN ANSIPR ES-1 APPROVAL LISTING FOR THIS SPECIFIC SHOP-FABRICATED FLASHING COMPONENT. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

A-TYPE EMBEDDED EDGE METAL WITH DRIP AND L-TYPE CLEAT— LOW-SLOPE ROOF SYSTEMS
 2018 NOT DRAWN TO SCALE EE-2

SCALE:
 N.T.S.

NRCA EDGE FLASHING DETAIL 10

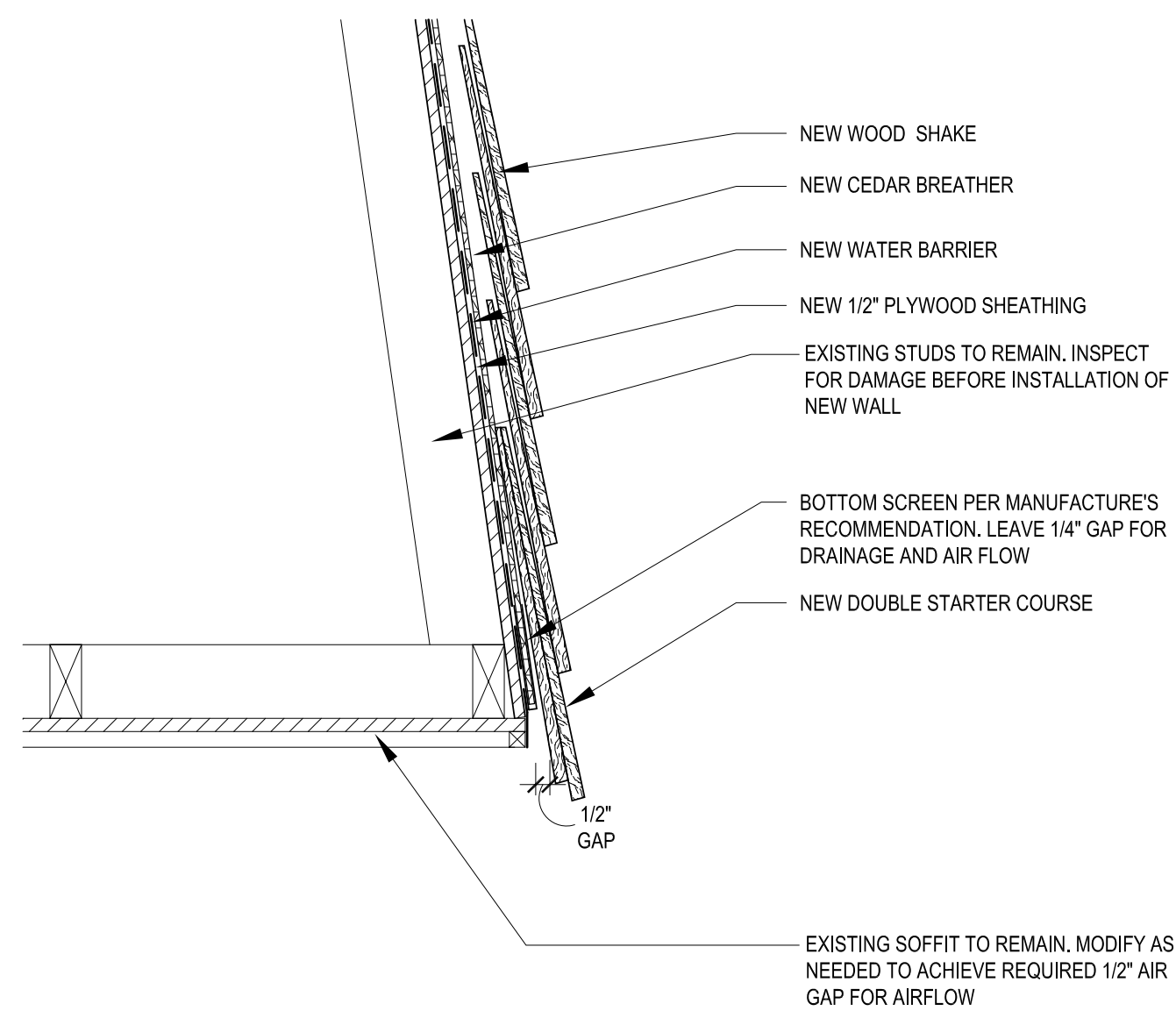


NOTES:
 1. ROOF MEMBRANE AND ASSOCIATED FLASHINGS NOT SHOWN FOR CLARITY.
 2. NRCA HAS OBTAINED AN ANSIPR ES-1 APPROVAL LISTING FOR THIS SPECIFIC SHOP-FABRICATED FLASHING COMPONENT. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

COPING WITH DRIP AND FRONT AND BACK FACE L-TYPE CLEAT
 2018 NOT DRAWN TO SCALE C-5

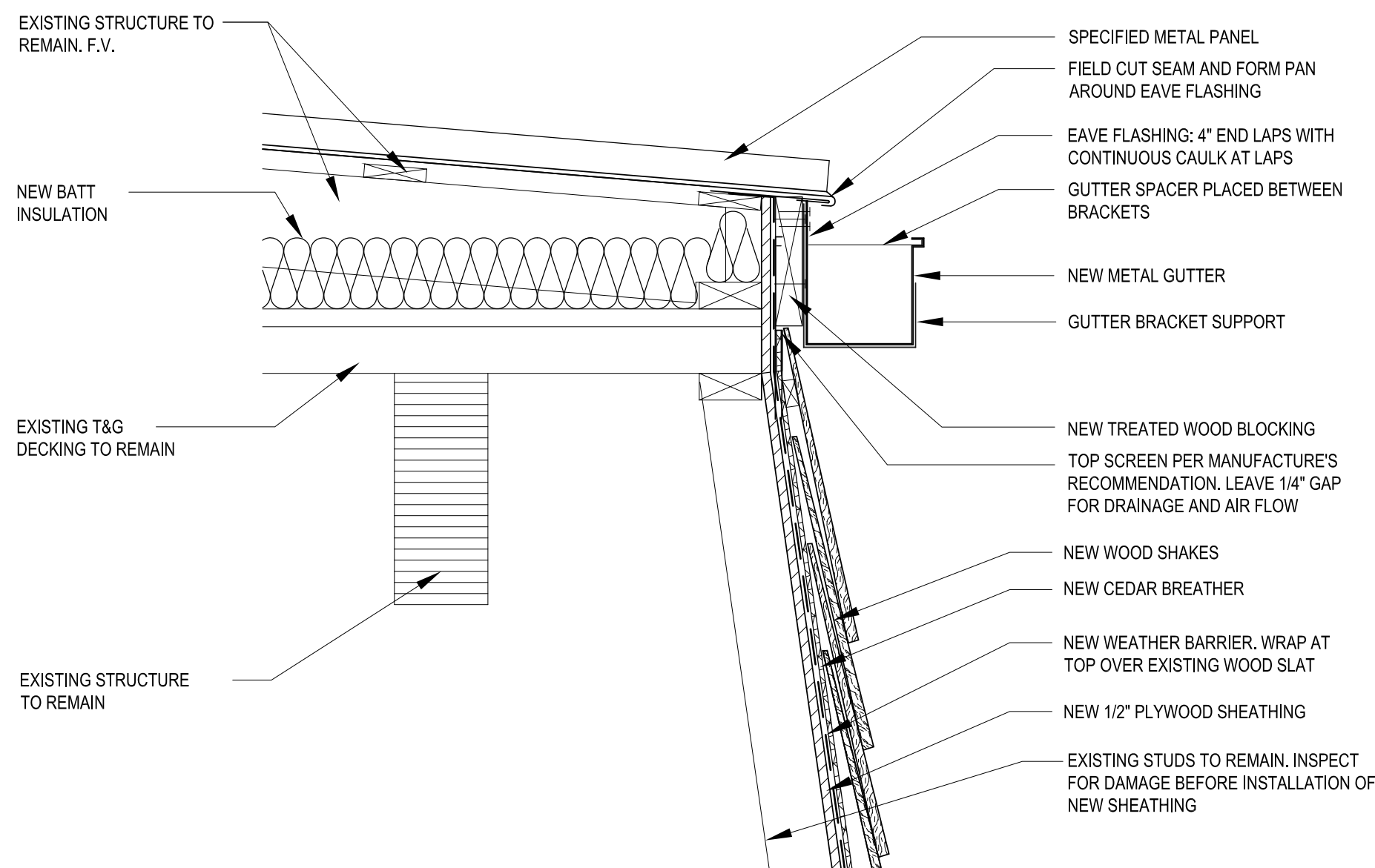
SCALE:
 N.T.S.

NRCA COPING DETAIL 09



0 SCALE: 8"
 1-1/2" = 1'-0"

SHAKE WALL @ SOFFIT DETAIL 06



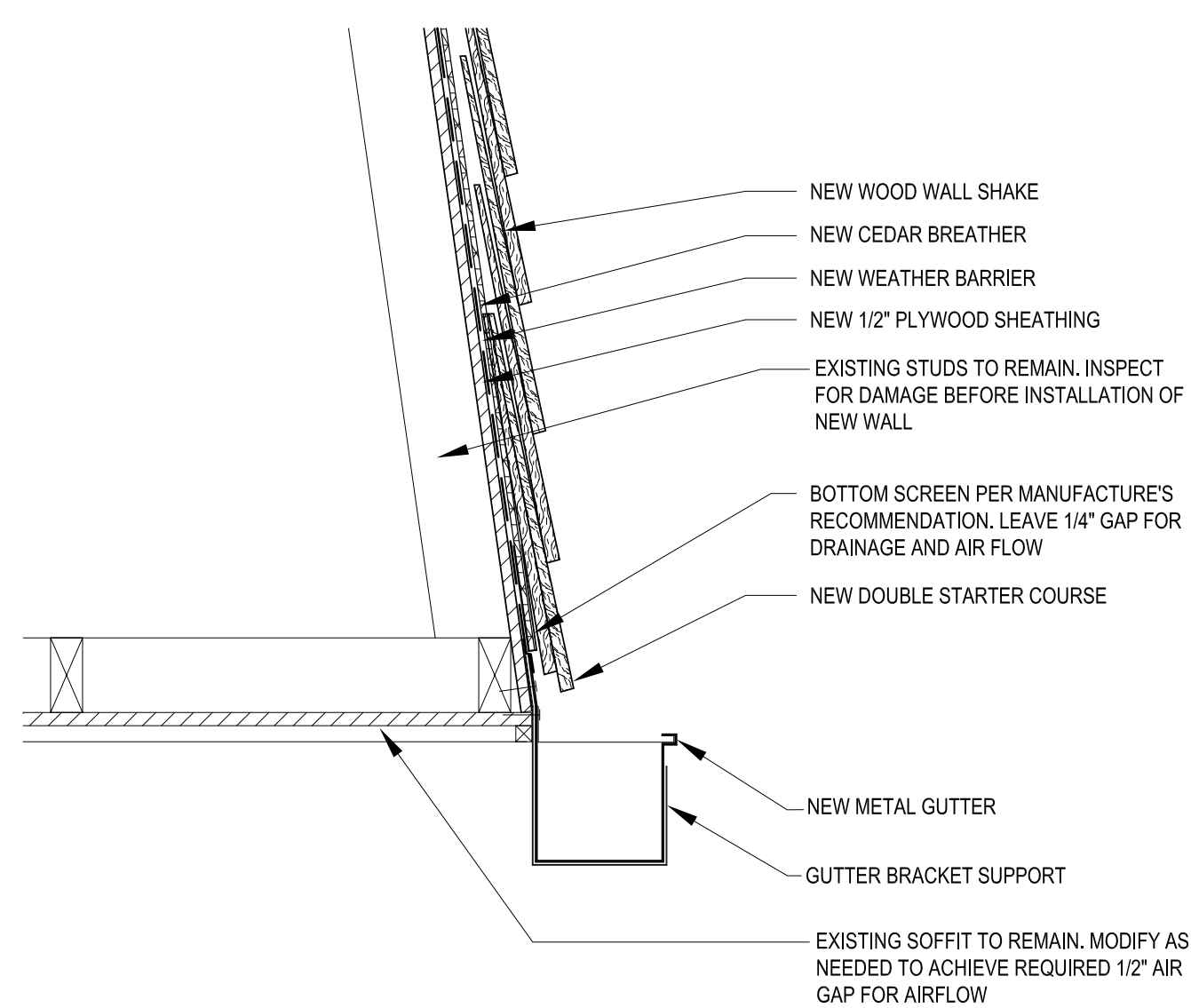
0 SCALE: 8"
 1-1/2" = 1'-0"

GUTTER AT UPPER METAL PANEL ROOF 05



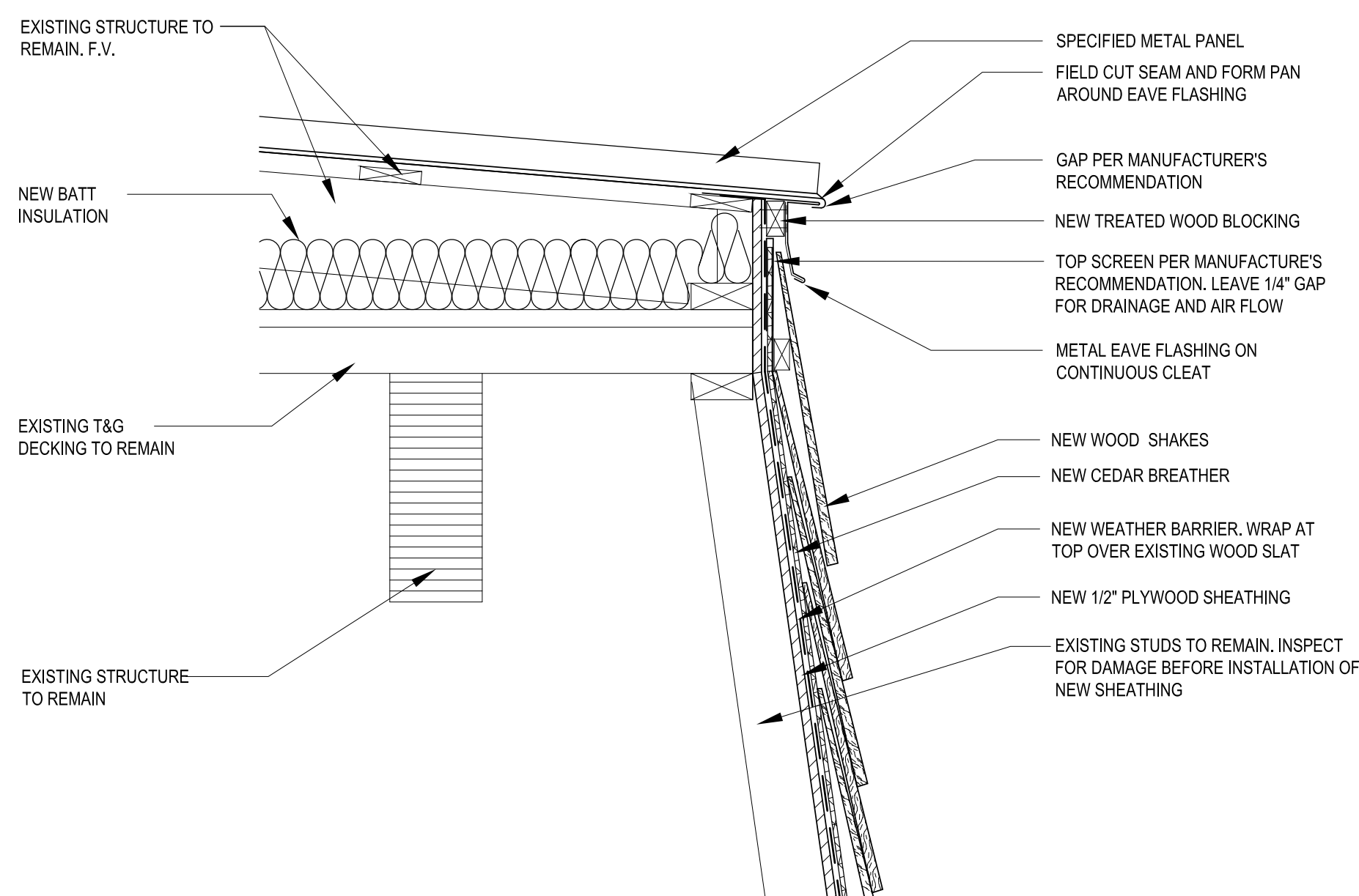
0 SCALE: 8"
 1-1/2" = 1'-0"

NOT USED 04



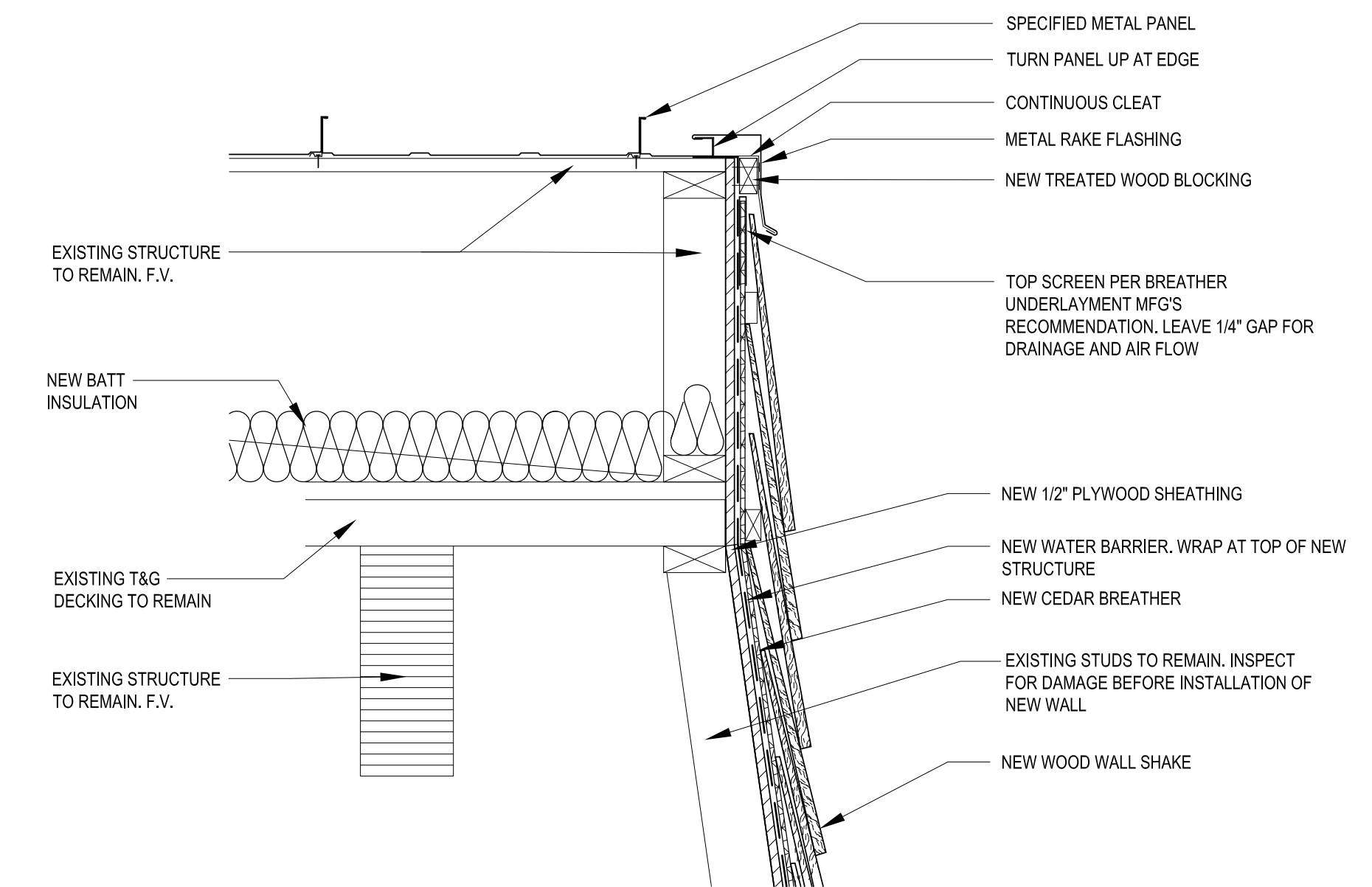
0 SCALE: 8"
 1-1/2" = 1'-0"

GUTTER @ SOFFIT DETAIL 03



0 SCALE: 8"
 1-1/2" = 1'-0"

EAVE AT UPPER METAL PANEL ROOF 02



0 SCALE: 8"
 1-1/2" = 1'-0"

RAKE UPPER METAL PANEL ROOF 01