

TITLE:

METAL SHOP DRAWINGS

PROJECT:

OLATHE FIRE STATION NO. 9

20408 COLLEGE BLVD,
OLATHE, KS 66061



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01 COPING DETAIL SECOND FLOOR
1/8" = 1'-0"

02 COPING DETAIL ROOF TOP
1/8" = 1'-0"

LEGEND

PREFABRICATED METAL COPING



HATCHED ROOF AREA INDICATED FOR FUTURE SOLAR PANELS, TYP.

ROOF ASSEMBLY 1 PER A1.50

PRECISION LADDER EA. SIDE W/ PLATFORM PER SPEC; PAINT TO MATCH FACADE.

ROOF ASSEMBLY 1 PER A1.50

DISCONNECTS (AT 2 LOCATIONS) PER MEP DWGS; REF POST PENETRATION DETAIL AND COORD. W/ MECHANICAL AND STRUCTURAL DWGS.

2X LAYERS OF TPO WALK-MAT 3'-0" MIN. AROUND MAJOR EQUIP.

ROOFTOP EQUIP PER MEP; PROVIDE ROOF CRICKETS AS REQ'D, TYP.

UNIT-ATTACHED MECH. SCREEN PER ELEVATIONS; ATTACH TO UNIT AS REQ'D PER MFR

ROOF ASSEMBLY 1 PER A1.50

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REVISION DATE

ROOF ASSEMBLY 3 AT CANOPY PER A1.50
ROOF ASSEMBLY 2 AT ROOF DECK BELOW PER A1.50 (REF SECOND LEVEL PLAN)

Date

Description

No.

ISSUE DATES

TYPE

DATE

DRAWN BY

SA

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SA

PROJECT NUMBER

9009-02

DATE

31 August, 2025

SHEET TITLE

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ISSUE DATES

TYPE

DATE _____

DRAWN BY SA
CHECKED BY SA
PROJECT NUMBER:
9009-02
DATE:
31 August, 2025
SHEET TITLE:
ALUM. FLASHING; CUSTOM CO
FC-01: ALL EXPOSED FACES T

ALUM. FLASHING; CUSTOM COLOR TO MATCH
FC-01: ALL EXPOSED FACES TO MATCH

COPING CONSTRUCTION NOTES:

1. Fabrication & Material

- Provide prefinished sheet metal coping, minimum **24 ga. galvanized steel** or **0.040" aluminum**, color to match architect's selection.
- Fabrication and installation shall conform to **SMACNA Architectural Sheet Metal Manual** and **ANSI/SPRI ES-1** standards.

2. Sections & Joints

- Coping shall be factory-fabricated in **10'-0" maximum lengths**.
 - Provide **internal splice plates** at all joints with 3/8" gap for thermal expansion.
 - Apply **continuous butyl sealant tape** at all joints; ensure watertight connections.
 - Provide expansion joints at **40'-0" maximum spacing** and at all inside/outside corners.
- 3. Anchorage & Cleats**
- Install **continuous concealed cleats** (minimum 20 ga. galvanized steel) on both roof and wall side.
 - Fasten cleats at **12" o.c.** to treated wood nailers (LGS wall) or to concrete/masonry (CMU wall) with corrosion-resistant anchors.
 - No exposed fasteners allowed on coping surface.

4. Substrates

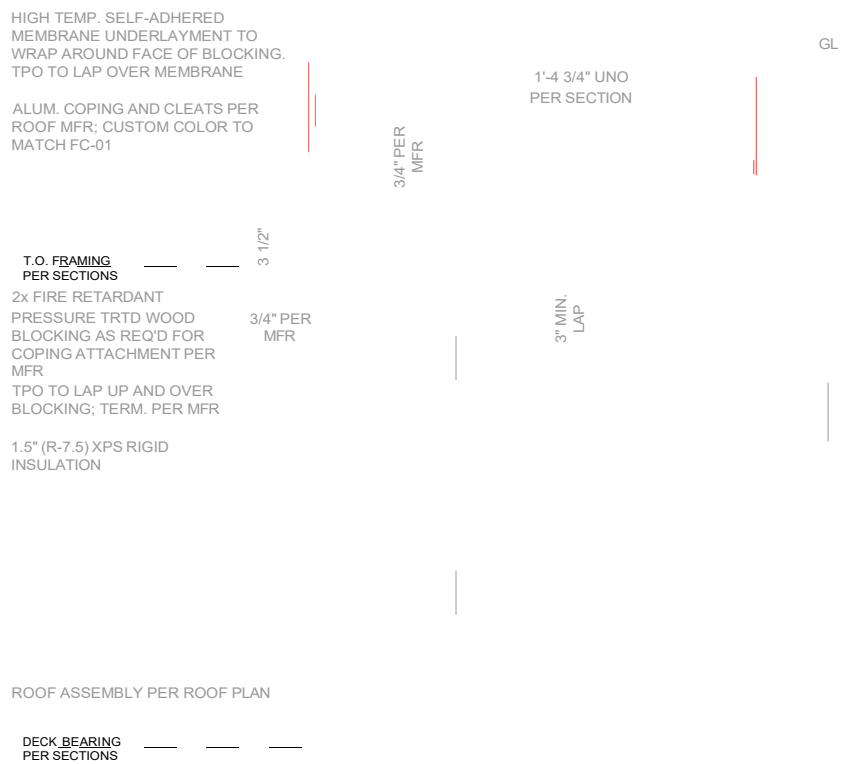
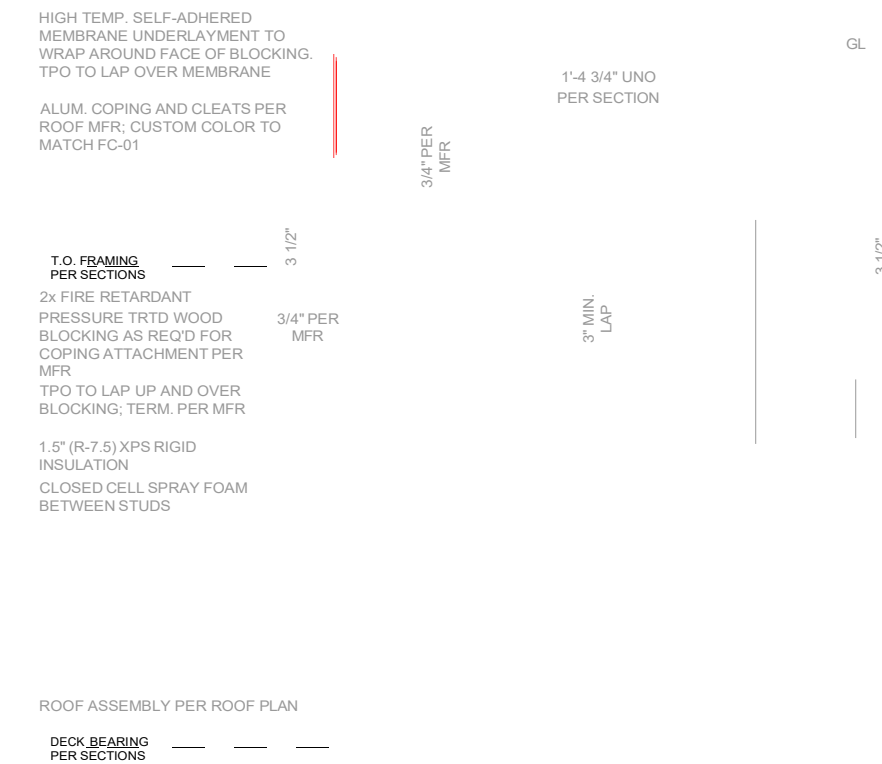
- For **LGS parapets**: Provide continuous **treated wood blocking (2x)** or **16 ga. steel plate** atop parapet framing. Blocking shall be securely anchored to studs.
- For **CMU parapets**: Provide continuous **solid grouted CMU course** or **cast-in-place concrete cap** to receive cleat anchorage. Install treated wood nailer as indicated in details.

5. Integration with Roof Assembly

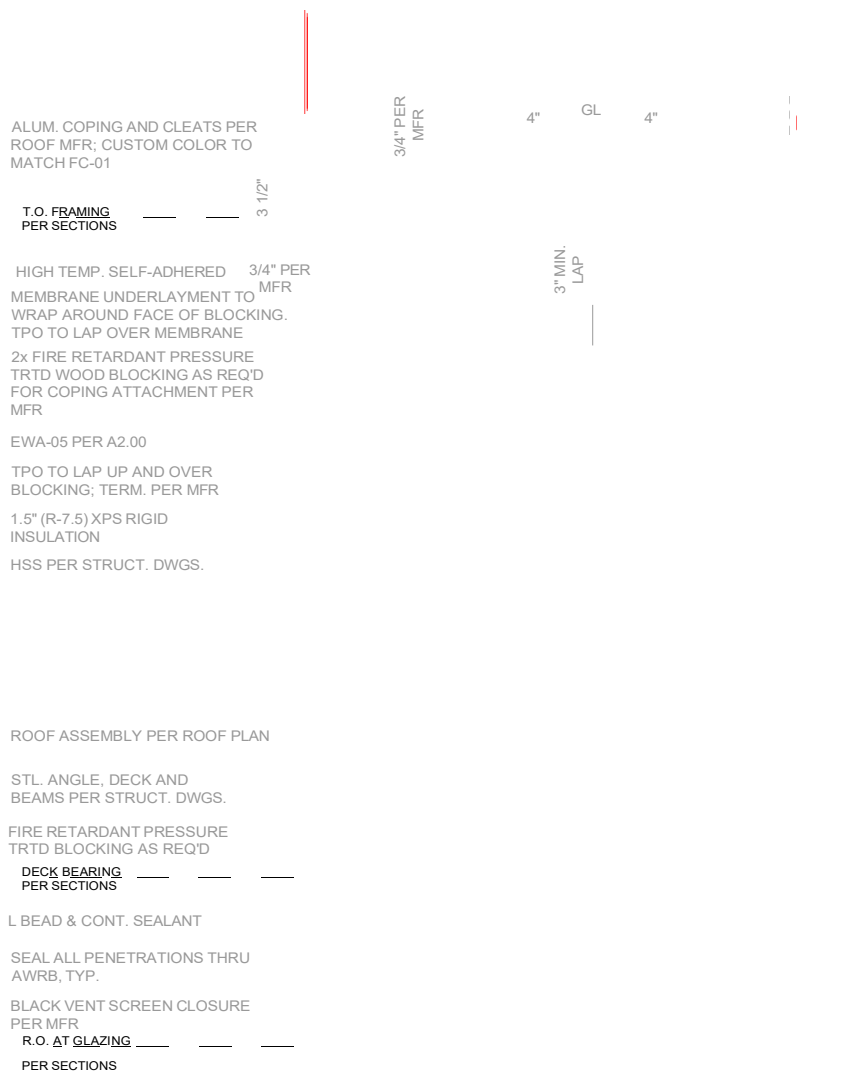
- Ensure coping overlaps roof membrane termination by minimum **4" on roof side** with continuous compression sealant.
- Provide closure flashing and sealant to prevent water infiltration behind coping and into parapet assembly.
- Minimum vertical leg dimensions: **4" exterior face** and **4" interior roof side** (or as per details).

6. Slope

- Fabricate coping with built-in slope to shed water toward roof side, minimum **1/4" per foot**
- 7. Finish & Protection**
- All exposed surfaces shall be factory-finished with architect-approved color.
 - Protect installed coping from damage during construction; replace damaged sections at no cost.



9	ROOF SECTION DETAIL - EWA-04	6	ROOF SECTION DETAIL - EWA-03	3	ROOF SECTION DETAIL - EWA-02
A-100A	SCALE: 3" = 1'-0"	A-100A	SCALE: 3" = 1'-0"	A-100A	SCALE: 3" = 1'-0"



FINISH

12	ROOF SECTION DETAIL - EWA-05
A-100A	SCALE : 3" = 1'-0"

**BLOWUP COPING
DETAILS**

SHEET NUMBER:

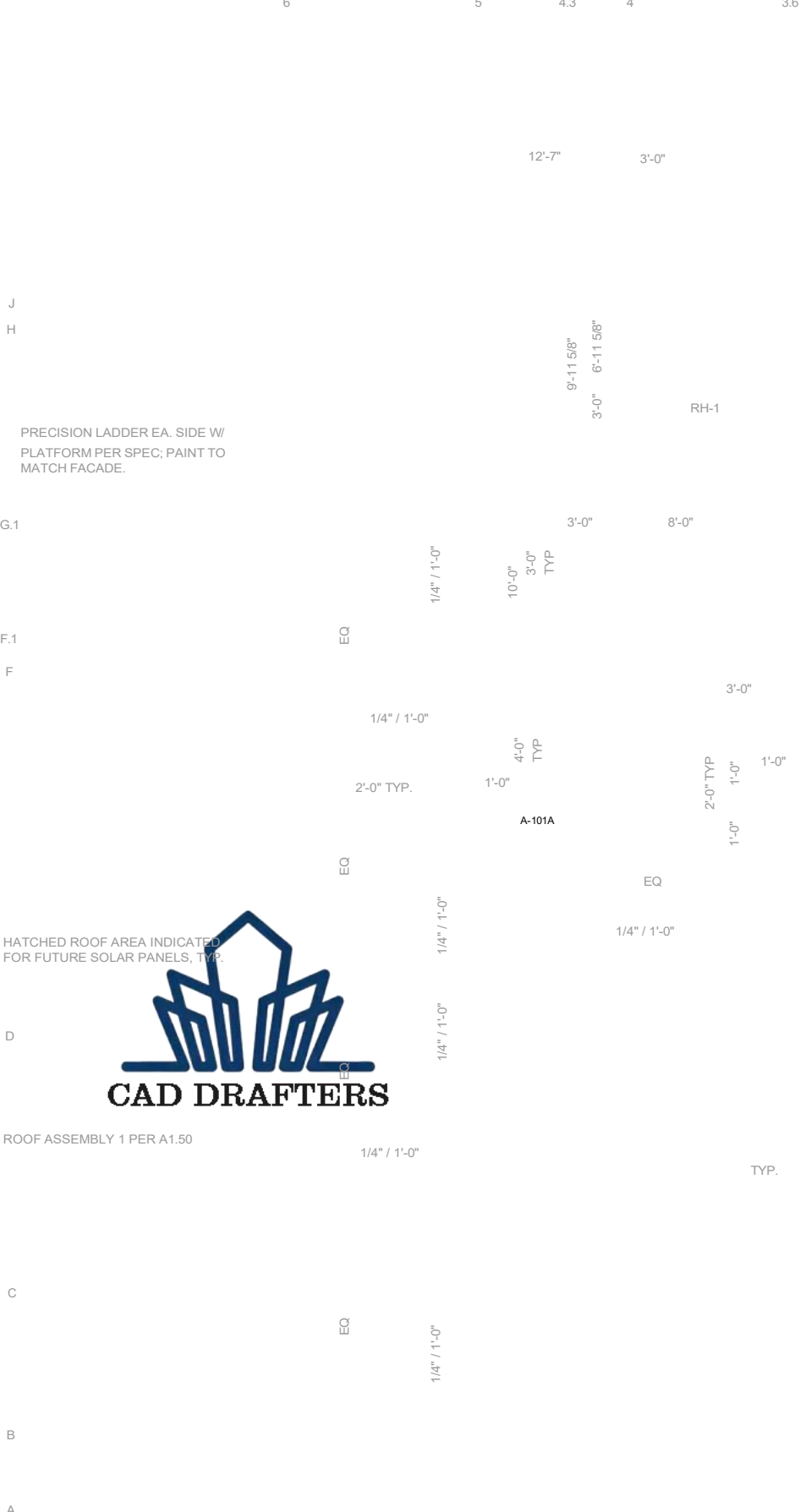
A-100A







01 DRIP EDGE DETAIL FIRST FLOOR
1/8" = 1'-0"



02 DRIP EDGE DETAIL ROOF TOP
1/8" = 1'-0"

LEGEND

PREFAB



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2X LAYERS OF TPO WALK-MAT 3'-0" MIN. AROUND MAJOR EQUIP.

ROOFTOP EQUIP PER MEP; PROVIDE ROOF CRICKETS AS REQ'D, TYP.

UNIT-ATTACHED MECH. SCREEN PER ELEVATIONS; ATTACH TO UNIT AS REQ'D PER MFR

ROOF ASSEMBLY 1 PER A1.50

ROOF ASSEMBLY 3 AT CANOPY PER A1.50
ROOF ASSEMBLY 2 AT ROOF DECK BELOW PER A1.50 (REF SECOND LEVEL PLAN)

ROOF ASSEMBLY 1 PER A1.50

DISCONNECTS (AT 2 LOCATIONS) PER MEP DWGS; REF POST PENETRATION DETAIL AND COORD. W/ MECHANICAL AND STRUCTURAL DWGS.

PRECISION LADDER EA. SIDE W/ PLATFORM PER SPEC; PAINT TO MATCH FACADE.

HATCHED ROOF AREA INDICATED FOR FUTURE SOLAR PANELS, TYP.

ROOF ASSEMBLY 1 PER A1.50

TYP.

A1.01-V

RICATED DRIP EDGE

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9009-02

DATE:

31 August, 2025

SHEET TITLE:

REF. PLAN MARK

SHEET NUMBER:

A-101



31 August,

MTL-05 SOFFIT PER LEGEND; PLANK
DIRECTION PER RCP

8" PER
STRUCT. DWGS.

2

MTL DECK, FRAMING, AND STEEL BEAMS PER
STRUCT. DWGS, TYP.

MTL-05 SOFFIT PER LEGEND
HSS STEEL PER STRUCT.
DWGS, TYP.

2025

SHEET TITLE:

**BLOWUP DRIP
EDGE DETAILS**

SHEET NUMBER:

A-101A

12 SECTION DETAIL - CANOPY EDGE

10 ROOF SECTION DETAIL

6 ROOF SECTION DETAIL





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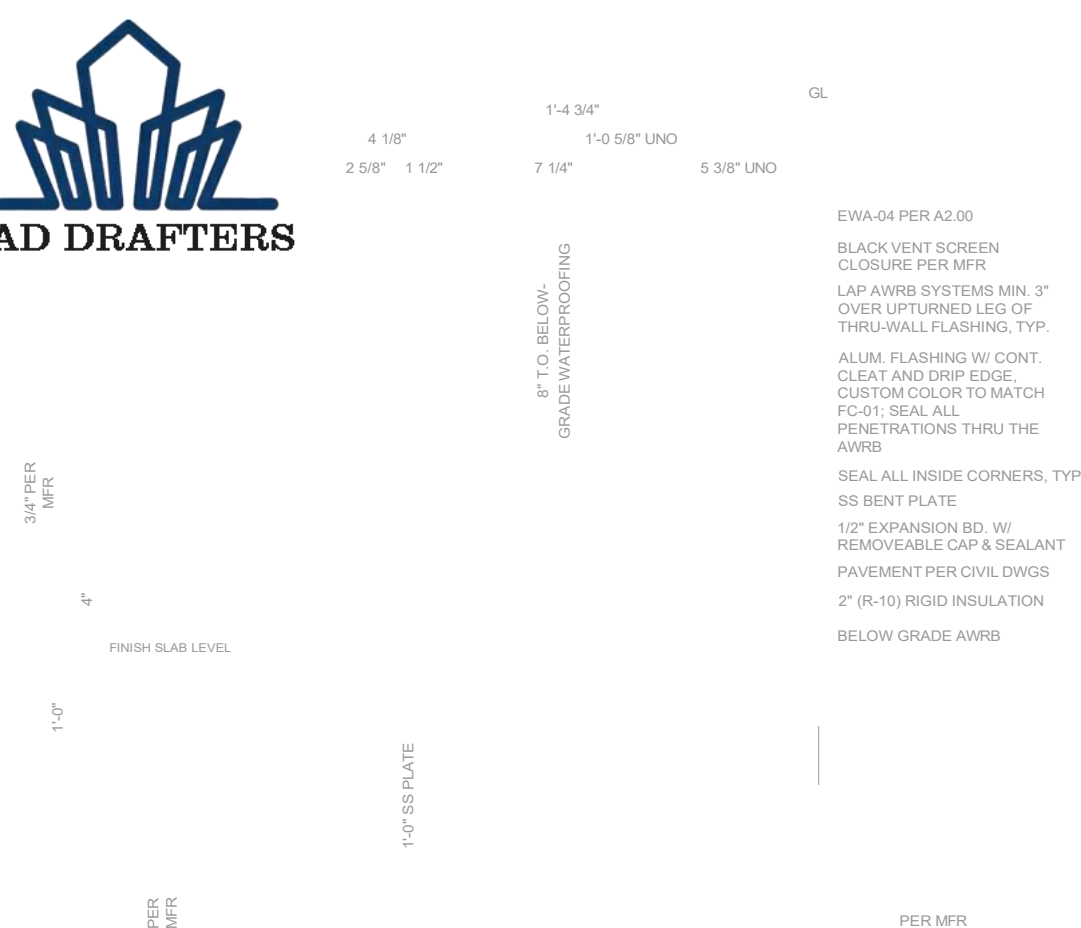
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Drip Edge Construction Notes (Shop Drawings)

1. DRIP EDGE FLASHING TO BE FABRICATED FROM HEAVY GAUGE PREFINISHED METAL, MINIMUM 24 GA. GALVANIZED STEEL OR 0.040" ALUMINUM, COLOR TO MATCH ARCHITECT'S FINISH SCHEDULE (FC-01 OR MTL-05 AS NOTED).
2. PROVIDE CONTINUOUS 20 GA. GALVANIZED STEEL CLEATS AT ROOF SIDE. FASTEN CLEATS TO TREATED WOOD BLOCKING OR STRUCTURAL SUBSTRATE WITH CORROSION-RESISTANT FASTENERS AT 12" O.C. MAX.
3. FABRICATE DRIP EDGE SECTIONS IN 10'-0" MAXIMUM LENGTHS WITH HEMMED DRIP LEG. PROVIDE FACTORY-FABRICATED CORNERS, END CAPS, AND MITERS.
4. ALL JOINTS TO INCLUDE INTERNAL SPIKE PLATES WITH 3/8" EXPANSION GAP AND CONTINUOUS BUTYL SEALANT TAPE. MINIMUM 4" LAP AT JOINTS IN DIRECTION OF WATER FLOW.
5. DRIP LEG SHALL PROJECT MINIMUM 1/2" BEYOND WALL FACE TO PREVENT WATER STAINING AND PROVIDE POSITIVE WATER SHEDDING.
6. ROOF MEMBRANE TO BE LAPPED AND TERMINATED UNDER DRIP EDGE PER ROOFING MANUFACTURER'S REQUIREMENTS. CONTINUOUS SEALANT REQUIRED BETWEEN DRIP EDGE FLANGE AND MEMBRANE.
7. ALIGN DRIP EDGE IN STRAIGHT, TRUE LINES. ALL FASTENERS TO BE CONCEALED; NO EXPOSED FASTENERS PERMITTED.
8. INSTALL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL AND ANSI/SPRI ES-1 WIND UPLIFT RESISTANCE REQUIREMENTS.
9. PROTECT INSTALLED FLASHING FROM DAMAGE DURING CONSTRUCTION. REPAIR OR REPLACE DAMAGED SECTIONS AT NO COST TO OWNER.



7 FOUNDATION DETAIL - EWA-03



8	FOUNDATION DETAIL - EWA-04
A-101B	SCALE : 3" = 1'-0"

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SHEET TITLE:

**BLOWUP DRIP
EDGE DETAILS**

SHEET NUMBER:

A-101B



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PREFAB
RICATE

PRECISION LADDER EA. SIDE W/
PLATFORM PER SPEC; PAINT TO
MATCH FACADE.

G.1

F.1

F

HATCHED ROOF AREA INDICATED
FOR FUTURE SOLAR PANELS, TYPE

ROOF ASSEMBLY 1 PER A1.50

ROOF ASSEMBLY 1 PER A1.50

DISCONNECTS (AT 2 LOCATIONS) PER MEP DWGS; REF POST PENETRATION
DETAIL AND COORD. W/ MECHANICAL AND STRUCTURAL DWGS.

2X LAYERS OF TPO WALK-MAT 3'-0"
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ROOFTOP EQUIP PER MEP; PROVIDE
ROOF CRICKETS AS REQ'D, TYP.

UNIT-ATTACHED MECH. SCREEN PER
ELEVATIONS; ATTACH TO UNIT AS
REQ'D PER MFR

ROOF ASSEMBLY 1 PER A1.50

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EQ

EQ

EQ

01 ROOF HATCH OPENING SECOND FLOOR
1/8" = 1'-0"

02 ROOF HATCH OPENING ROOF TOP
1/8" = 1'-0"

LEGEND

D ROOF HATCH

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REF. PLAN MARK

SHEET NUMBER:





1. ROOF HATCH SHALL BE FACTORY-BUILT, HEAVY-DUTY GALVANIZED STEEL (MIN. 14 GAUGE) WITH FACTORY-APPLIED PRIMER AND FINISH COAT, OR 0.090" ALUMINUM WITH BAKED ENAMEL FINISH.
2. PROVIDE PREFABRICATED CURB WITH INTEGRAL CAP FLASHING, MINIMUM HEIGHT 12" **ABOVE FINISHED ROOF (JNO)**, DESIGNED TO RECEIVE ROOF MEMBRANE TERMINATION.
3. ROOF HATCH LID TO BE REINFORCED, INSULATED, AND GASKETED FOR WEATHER-TIGHT SEAL. PROVIDE MINIMUM 1" **RIGID INSULATION** FACTORY-INSTALLED IN HATCH COVER.
4. PROVIDE INTERIOR SAFETY POST AND LADDER ACCESS PER MANUFACTURER'S STANDARD. SAFETY POST SHALL LOCK IN UPRIGHT POSITION AND MEET OSHA REQUIREMENTS.
5. HINGES TO BE HEAVY-DUTY, TAMPER-RESISTANT STAINLESS STEEL. PROVIDE LIFT ASSIST MECHANISM (TENSION SPRING OR GAS CYLINDER) FOR EASY ONE-HAND OPERATION.
6. PROVIDE POSITIVE HOLD-OPEN ARM TO SECURE HATCH IN FULLY OPEN POSITION AT 90 DEGREES.
7. LATCH TO BE LOCKABLE FROM INTERIOR, WITH PADLOCK HASP FOR EXTERIOR SECURITY.
8. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENERS, SEALANT, AND MEMBRANE TERMINATION TO MAINTAIN ROOF WARRANTY.
9. SIZE, LOCATION, AND OPERATION OF ROOF HATCH TO MATCH ARCHITECTURAL DRAWINGS. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR REVIEW PRIOR TO FABRICATION.
10. FINISH: FACTORY-APPLIED BAKED ENAMEL COLOR TO MATCH ARCHITECT'S FINISH SCHEDULE (UNO).



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1

ROOF HATCH ACCESS LADDER

A-102A

SCALE : 3/4" = 1'-0"

<div>SHEET TITLE:</div> <div>BLOWUP ROOF HATCH OPENING</div>
<div>SHEET NUMBER:</div> <div>A-102A</div>





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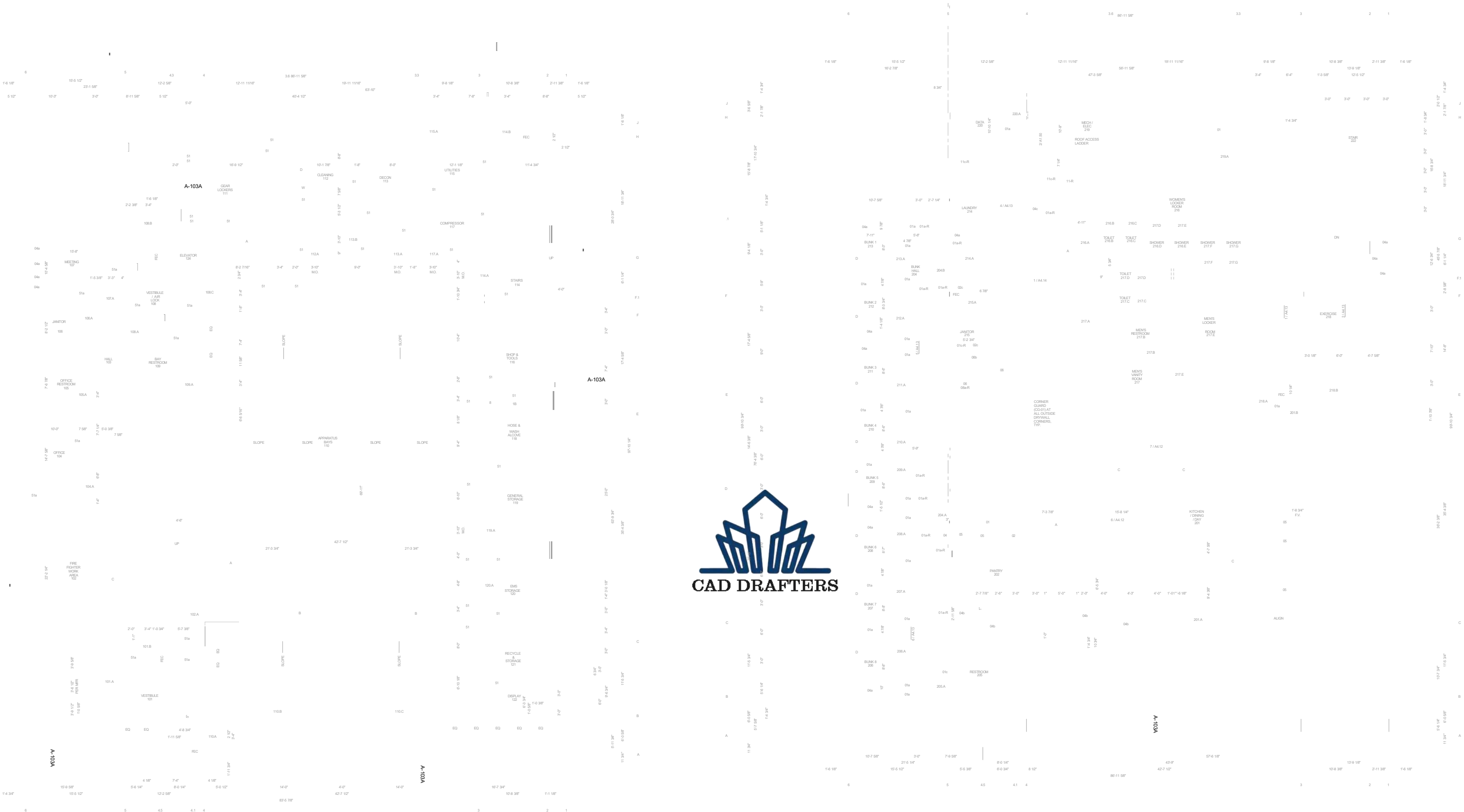
DATE

LEGEND

PREFABRICATED SOFFIT PENAL

01 SOFFIT PENAL DETAIL FIRST FLOOR
1/8" = 1'-0"

02 SOFFIT PENAL DETAIL SECOND FLOOR
1/8" = 1'-0"



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1 1/2" VARIES
8"
PER STRUCTURAL

ROOF ASSEMBLY 03
(CANOPY)

FIRE RETARDANT P.T.
BLOCKING AS REQ'D FOR
POSITIVE SLOPE

FULLY ADHERED 60MIL TPO
MEMBRANE

1/2" GYPSUM BASED ROOF
COVER BOARD

TAPERED POLYISO RIGID
INSULATION ONLY AS REQ'D
FOR POSITIVE SLOPE TO
ROOF DRAINS

MTL DECK ON STEEL BEAMS
AND JOISTS PER STRUCT.
DWGS,TYP

VAPOR-PERMEABLE AIR/WATER
RESISTIVE BARRIER MEMBRANE
OVER 5/8" FIBERGLASS-MAT FACED
MOISTURE AND MOLD RESISTANT
GYPSUM BASED SHEATHING

MTL-05 ATTACHMENTS AS REQ'D,
SEAL ALL PENETRATIONS THRU THE
AWRB

MTL-05 SOFFIT PER EXTERIOR
MATERIAL LEGEND

3"
TYP.

2"

1'-0"
10"

CANOPY D.B.
PER SECTIONS

HEAVY GA. MTL FLASHING W/ CONT. CLEAT AND DRIP EDGE,
CUSTOM COLOR TO MATCH MTL-05; SEAL ALL
PENETRATIONS THRU THE AWRB

LAP AND TERM. ROOF MEMBRANE AS REQ'D PER MFR

FIRE RETARDANT P.T. BLOCKING AS REQ'D

ROOF ASSEMBLY 3 PER A1.50

VARIES
8" PER
STRUCT. DWGS.

MTL-05 SOFFIT PER LEGEND; PLANK
DIRECTION PER RCP

STEEL ANGLE PER STRUCT DWGS; GALV AND
PAINT PER LEGEND

MTL-05 SOFFIT PER LEGEND; PLANK
DIRECTION PER RCP

HSS STEEL PER STRUCT.
DWGS, TYP.

EWA-04 PER A2.00

MTL STUD FRAMING FOR CEILING
PER LEGEND

2 5/8" 1 1/2" 1'-0 5/8" 1'-4 3/4"

3/4"

ROOF SECTION DETAIL

A-103A SCALE : 3" = 1'-0"

MTL-05 SOFFIT PER LEGEND
HSS STEEL PER STRUCT.
DWGS, TYP.

CONT. SEALANT & BACKER ROD AS
REQ'D PER MFR, TYP.

FIRE RETARDANT P.T. BLOCKING AS REQ'D

L-BEAD & CONT. SEALANT

EGS-01 PER A2.00

MTL STUD FRAMING FOR CEILING PER LEGEND

ROOF SECTION DETAIL

A-103A SCALE : 3" = 1'-0"

EWA-04 PER A2.00

LAP AWRB SYSTEMS MIN. 3"
OVER UPTURNED LEG OF
THRU-WALL FLASHING, TYP.

SEALANT CANT AT ALL
INSIDE CORNERS, TYP.

MTL FLASHING W/ CONT. CLEAT AND
DRIP EDGE, CUSTOM COLOR TO
MATCH FC-01; SEAL ALL
PENETRATIONS THRU THE AWRB

2" XPS RIGID INSULATION

THERMALLY BROKEN CLADDING
ATTACHMENT SYSTEM
ROOF ASSEMBLY 3 PER A1.50

CLOSED-CELL SPRAY FOAM
INSULATION

MIN AS
REQ'D PER
MFR

EWA-04 PER A2.00

LAP AWRB SYSTEMS MIN. 3"
OVER UPTURNED LEG OF
THRU-WALL FLASHING, TYP.

SEALANT CANT AT ALL
INSIDE CORNERS, TYP.

MTL FLASHING W/ CONT. CLEAT AND
DRIP EDGE, CUSTOM COLOR TO
MATCH FC-01; SEAL ALL
PENETRATIONS THRU THE AWRB

2" XPS RIGID INSULATION

THERMALLY BROKEN CLADDING
ATTACHMENT SYSTEM
ROOF ASSEMBLY 3 PER A1.50

CLOSED-CELL SPRAY FOAM
INSULATION

MIN AS
REQ'D PER
MFR

3
A3.50

T.O. STONE
PER ELEVATIONS

T.O. FRAMING
PER SECTIONS

ROOF ASSEMBLY 1 PER A1.50

EWA-02 PER A2.00

REGLET FLASHING; CUSTOM
COLOR TO MATCH ST-01

TERM BAR W/ CONT. SEALANT AS
REQ'D PEF MFR

ROOF ASSEMBLY 3 PER A1.50

MTL-05 SOFFIT PER LEGEND

EWA-02 PER A2.00

A-103A SCALE : 3" = 1'-0"

SOFFIT PANEL CONSTRUCTION NOTES:

General

1. ALL SOFFIT PANELS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, SMACNA ARCHITECTURAL SHEET METAL MANUAL, AND ASTM STANDARDS FOR EXTERIOR CLADDING.
2. SUBMIT SHOP DRAWINGS SHOWING PANEL LAYOUT, SUPPORT FRAMING, FASTENING, AND TRIM CONDITIONS PRIOR TO FABRICATION.
3. VERIFY ALL FIELD DIMENSIONS AND COORDINATE WITH STRUCTURAL, ARCHITECTURAL, AND MEP ELEMENTS PRIOR TO INSTALLATION.
4. COLOR, TEXTURE, AND FINISH TO MATCH ARCHITECTURAL FINISH SCHEDULE.

EFS-01: STO COATED SOFFIT (EIFS SYSTEM)

1. PROVIDE CONTINUOUS SOFFIT SYSTEM CONSISTING OF SUBSTRATE, INSULATION BOARD, BASE COAT, REINFORCING MESH, AND FINISH COAT PER MANUFACTURER.
2. COLOR TO MATCH **PT-01 RED ACCENT COLOR** (UNO).
3. INSTALL ON METAL FRAMING OR STRUCTURAL SUBSTRATE PER SHOP DRAWINGS. FASTENERS TO BE CORROSION-RESISTANT AND INSTALLED PER MFR.
4. PROVIDE CONTROL JOINTS AT MAX. 12'-0" O.C. AND AT CHANGES IN PLANE, PER EIFS MANUFACTURER'S REQUIREMENTS.
5. SEALANT JOINTS TO BE BACKER-ROD AND SEALANT, COLOR TO MATCH FINISH.
6. PROVIDE VENTILATION TO SOFFITS AS SHOWN ON DRAWINGS.

MTL-05: ARCHITECTURAL ALUMINUM SOFFIT PANEL

1. PANELS TO BE **FACIL FACADES SURFACE S-200, BRONZE ELECTRO 200 COLOR**, OR APPROVED EQUAL.
2. PANEL MATERIAL: PREFINISHED ARCHITECTURAL ALUMINUM PANEL SYSTEM, FACTORY-COATED WITH KYNAR 500 FINISH.
3. INSTALL PANELS IN TRUE ALIGNMENT WITH UNIFORM JOINTS. PROVIDE FACTORY-FABRICATED TRIM PIECES AT CORNERS, TERMINATIONS, AND INTERSECTIONS.
4. SECURE PANELS TO GALVANIZED STEEL SUB-FRAMING USING HIDDEN FASTENER SYSTEM OR MFR-APPROVED CLIPS. NO EXPOSED FASTENERS UNLESS APPROVED BY ARCHITECT.
5. ALLOW FOR THERMAL MOVEMENT PER MANUFACTURER'S REQUIREMENTS. PROVIDE EXPANSION JOINTS AT 40'-0" O.C. MAX AND AT TRANSITIONS.
6. PROTECT FINISH SURFACE FROM DAMAGE DURING INSTALLATION. DAMAGED PANELS SHALL BE REPLACED AT NO COST.



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SHEET TITLE

5 ROOF ASSEMBLY DETAILS

PROVIDE STEEL INFILL CLOSURE PIECE AT ENDS AND SEAL ADJACENT CLADDING : GALV AND PAINT TO MATCH CHANNEL

PER MFR

PER MFR

ROOF SECTION DETAIL

A-103A SCALE : 3" = 1'-0"

BLOWUP SOFFIT PENAL DETAILS

SHEET NUMBER:



12
SECTION DETAIL
- CANOPY
EDGE

A-103A SCALE : 3" = 1'-0"

A-103A