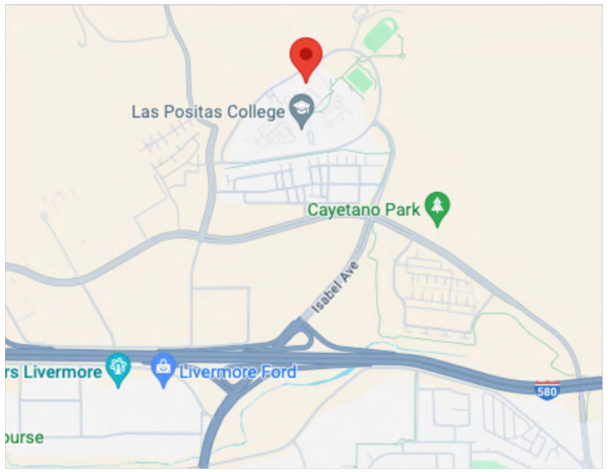
ROOF REPLACEMENT - BUILDING 400

LAS POSITAS COMMUNITY COLLEGE

3000 Campus Hill Drive
Livermore, CA
Building 1800

VICINITY MAP



APPLICABLE CODES AND REFERENCES:

1. 2022 CALIFORNIA CODE OF REGULATIONS TITLE 24 - PARTS 1, 2, 6, 9 and 12.
2. STATE OF CALIFORNIA TITLE 24 (2022 EDITION) - PART 4 CALIFORNIA MECHANICAL CODE/AMMENDMENTS WITH UMC
3. STATE OF CALIFORNIA TITLE 24 (2022 EDITION) - PART 5 CALIFORNIA PLUMBING CODE WITH 2000 UPC
4. STATE OF CALIFORNIA TITLE 24 (2022 EDITION) - PART 6 CALIFORNIA ENERGY CODE
5. STATE OF CALIFORNIA TITLE 24 (2022 EDITION) - PART 9 CALIFORNIA FIRE CODE/AMENDMENTS WITH UFC
6. STATE OF CALIFORNIA TITLE 24 (2022 EDITION) - PART 12 CALIFORNIA REFERENCED STANDARDS CODE
7. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
9. NRCA (LATEST EDITION) NATIONAL ROOFING CONTRACTORS ASSOCIATION GUIDELINES
10. SMACNA Sheet Metal and Air Conditioning Contractors National Association.

CAMPUS MAP

PROJECT LOCATION

LAS POSITAS COLLEGE

SKYLINE ENGINEERING
Engineering Services for the Building Envelope

REGISTERED PROFESSIONAL ENGINEER
BRIAN SCHALESKY
M030834
EXP. 12-31-26
MECHANICAL
STATE OF CALIFORNIA

Engineer of Record
Bryan Schalesky, PE
Skyline Engineering

Project Manager
John Seybert
Director of Maintenance & Operations
Cell Phone: (510)715-4232
jseybert@clpccd.org

DRAWING TABLE OF CONTENTS

No.	Revision/Issue	Date

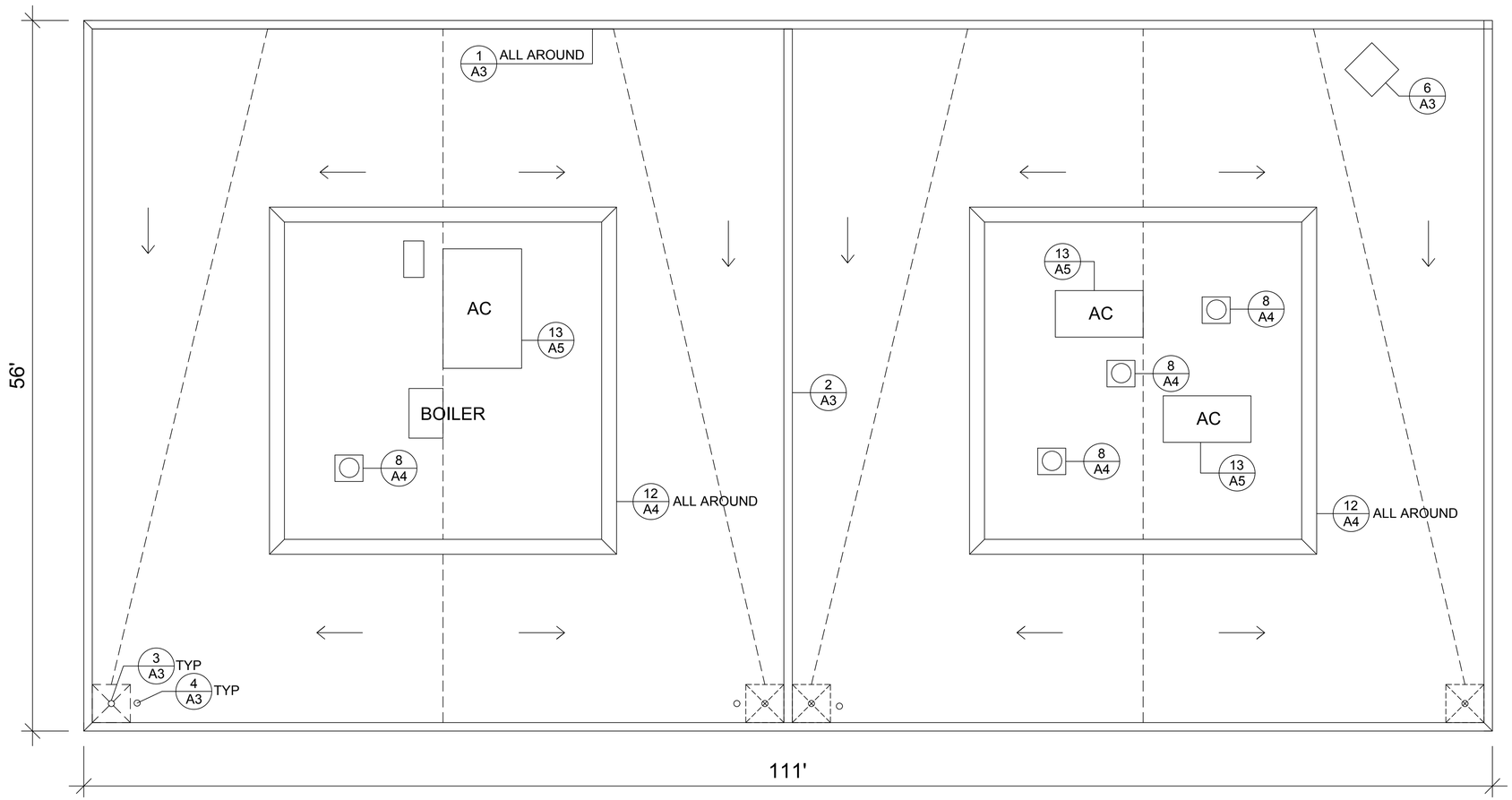
Firm Name and Address

SKYLINE ENGINEERING
8100 Wild Horse Road
Salinas CA 93907

Project Name and Address

PROJECT TITLE:
Roof Replacement
Building 400

Project	Sheet
Roof Replacement	A-1 TITLE PAGE
Date: November 2025	
Scale: NONE	



SCALE CHECK

0 10 20 30 40 50

DUE TO PRINTING IMPERFECTIONS CONTRACTORS SHALL VERIFY ALL MEASUREMENTS

General Notes

Not all projections are shown. Ducting penetrations are not shown.

Equipment and projection locations are approximate.

Contractors are responsible for all measurements and projection counts.

All new metal shall be stainless steel or Kynar coated as specified in section 071500 Sheet Metal Waterproofing.

Install crickets behind all square curbed penetrations.

Drawn by:
Bryan Schalesky
Skyline Engineering

REGISTERED PROFESSIONAL ENGINEER
BRYAN SCHALESKY
M030834
EXP. 12-31-26
MECHANICAL
STATE OF CALIFORNIA

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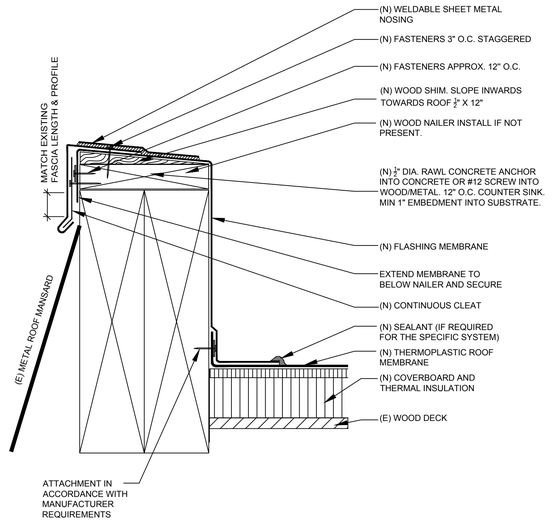
SKYLINE ENGINEERING, INC.
8100 Wild Horse Road
Salinas CA 93907

Project Name and Address

LAS POSITAS COMMUNITY COLLEGE
3000 Campus Hill Drive
Livermore, CA
Building 400

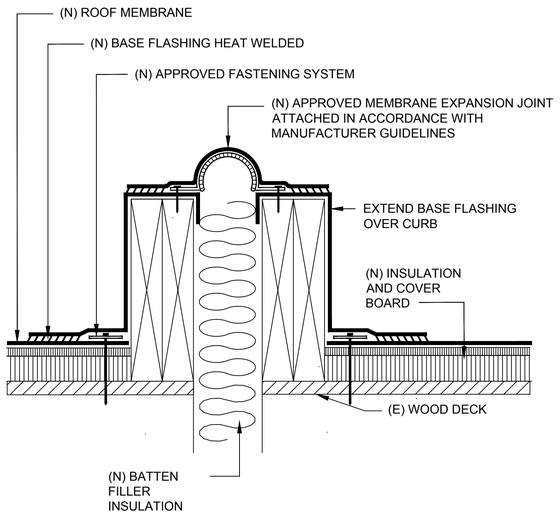
Project: Roof Replacement	Sheet: A-2 ROOF PLAN
Date: November 2025	
Scale: Drawing is dimensioned	



NOTES:
1. METAL EDGE PROFILE MAY DIFFER SLIGHTLY WITH MANUFACTURER.
2. KYNAR COATED METAL EDGING THAT IS VISIBLE AS A FASCIA SHALL MATCH THE COLOR OF THE EXTERIOR METAL ROOF MANSARD. IF COATED METAL EDGING IS USED, PAINT TO MATCH EXTERIOR ROOF MANSARD.
3. IF REQUIRED BY MANUFACTURER, INSTALL NAILERS AT THE BASE OF THE WALL (NOT SHOWN ON THIS DRAWING). NAILER THICKNESS SHALL MATCH INSULATION. ATTACH PER ANSI/SPRI ES-1
4. FOR FASTENER SPECIFICATIONS, REFER TO SECTION 061000 ROUGH CARPENTRY.

1 PARAPET CAP & BASE FLASHING

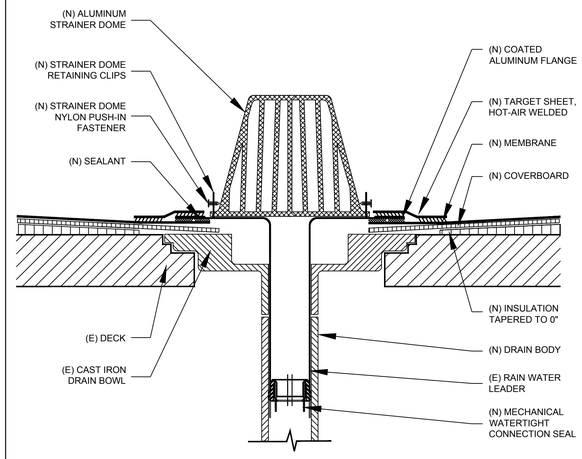
NOT DRAWN TO SCALE



NOTES:
1. EXACT CONFIGURATION OF EXPANSION JOINT MAY DIFFER SLIGHTLY BASED UPON MANUFACTURER APPROVED DETAIL.
2. SUBMIT APPROVED DETAIL FOR ENGINEER'S APPROVAL AS PART OF SUBMITTAL PROCESS FOR THIS PROJECT.

2 EXPANSION JOINT WALL

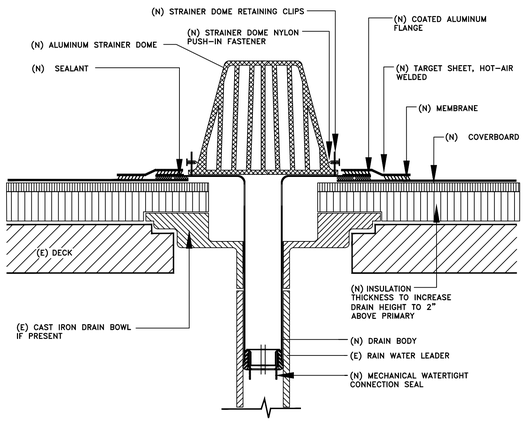
NOT DRAWN TO SCALE



NOTES ON DRAIN INSERT:
1. AT PRIMARY DRAINS (SHOWN ON THIS DRAWING) PROVIDE 3'X3' SUMP TO FACILITATE DRAINAGE FOR PRIMARY DRAINS. LOWER DRAIN TO DECK LEVEL. REMOVE JOSAM BOWL IF NECESSARY.
2. AT OVERFLOW DRAINS: OUTLET SHALL BE 2" ABOVE PRIMARY DRAIN OUTLET. INSTALL INSULATION HEIGHT APPROPRIATELY OR DRAIN INSERT SHALL HAVE 2" EXTENSION.
3. THIS DRAWING IS COURTESY OF SARNAFIL. IF USING ANOTHER MANUFACTURER, CONTRACTOR SHALL SUBMIT APPROVED DRAIN INSERT TO ENGINEER FOR APPROVAL.

3 DRAIN INSERT

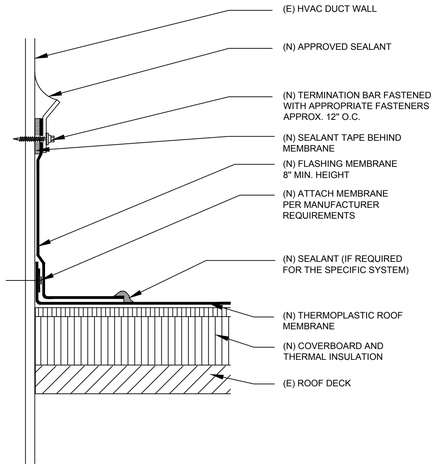
NOT DRAWN TO SCALE



NOTES ON DRAIN INSERT:
1. AT OVERFLOW DRAINS: OUTLET SHALL BE 2" ABOVE PRIMARY DRAIN OUTLET. INSTALL INSULATION HEIGHT APPROPRIATELY OR DRAIN INSERT SHALL HAVE 2" EXTENSION.
2. THIS DRAWING IS COURTESY OF SARNAFIL. IF USING ANOTHER MANUFACTURER, CONTRACTOR SHALL SUBMIT APPROVED DRAIN INSERT TO ENGINEER FOR APPROVAL.

4 OVERFLOW DRAIN INSERT

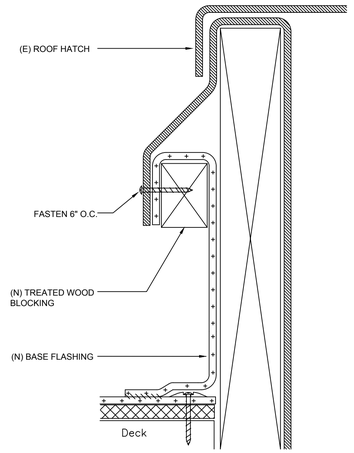
NOT DRAWN TO SCALE



NOTES:
1. FOLLOW MANUFACTURER REQUIREMENTS FOR SPECIFIED WARRANTY.
2. USE THIS DETAIL WHEN DUCTING PENETRATES THE ROOF AND DOES NOT HAVE A WOOD CURB.
3. ENSURE THAT DUCTING IS WATER PROOFED.

5 TERMINATION BAR AT DUCTING

NOT DRAWN TO SCALE



NOTES:
1. IF APPROVED BY THE MANUFACTURER, COMPRESSED BACKER ROD MAY BE USED INSTEAD OF TREATED WOOD BLOCKING. BASE FLASHING WOULD BE SECURED WITH THE PRESSURE FIT RATHER THAN FASTENERS.
2. NAILER NOT SHOWN. INSTALL NAILER AT BASE OF FLASHING IF REQUIRED BY MANUFACTURER.
3. PROVIDE CUT-IN SEALANT IF REQUIRED BY THE MANUFACTURER.

6 ACCESS HATCH

NOT DRAWN TO SCALE

General Notes

The purpose of these detail drawings is to provide the installer with a basic guideline for the installation of termination and projection flashings. Where field conditions warrant alteration of these details, the installer shall notify the University and Engineer of Record.

These drawings are not meant to depict the existing construction of substrate materials (roof decking, nailers, etc.). They are intended to show the design requirements of the roof coverings and flashings.

FLASHINGS:
1. Adhere elastomeric sheeting completely to flashing surface, can't, and roofing with Flashing Adhesive. Embed flashing into adhesive immediately.
2. Ensure complete bond and continuity without wrinkles or voids.
3. Any equipment that will not have curb heights of 8" above the final roof surface shall be extended or raised. If the proposed roofing system manufacturer will accept curb heights less than 8", contractor shall submit request in writing (from manufacturer) to University and engineer to withdraw this requirement. If a particular piece of equipment is impossible or not financially feasible to lift, raise or extend, contractor shall notify the engineer prior to the bid date for direction.
4. Install flashing in accordance with detail drawings and manufacturers guidelines. Details depicted in the drawings shall also conform with manufacturer's guidelines. Where conflict exists, the more stringent detail shall govern. If conflict exists between depicted drawings and manufacturer guidelines, the following process shall apply. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor and engineer. Contractor shall install the flashing only after it has been approved by the engineer and University. There shall be no additional charges for this proposed detail. It is the responsibility of the contractor to ensure that all manufacturers guidelines are accounted for in the base bid for this project.
5. ANY DETAIL NOT COVERED IN THESE SPECIFICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH GOOD ROOFING PRACTICE, N.R.C.A. RECOMMENDATIONS AND HAVE THE APPROVAL OF THE MANUFACTURER PROVIDED THE WARRANTY FOR THE ROOFING SYSTEM. If a detail is not covered in these specifications the following process will take place prior to the bid opening. Contact manufacturer responsible for flashing guarantee. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor. OR contractor may bid using the approved manufacturer detail. Contractor shall bid using the manufacturer-approved detail. Contractor shall submit detail drawing to University as part of the submittals. No change order will be given to the contractor for flashing details that were visible prior to construction. It is the responsibility of the contractor to cover in his bid all approved and specified details.

Drawn by:
Bryan Schalesky
Skyline Engineering

REGISTERED PROFESSIONAL ENGINEER
BRYAN SCHALESKY
M030834
EXP. 12-31-26
MECHANICAL
STATE OF CALIFORNIA

No.	Revision/Issue	Date

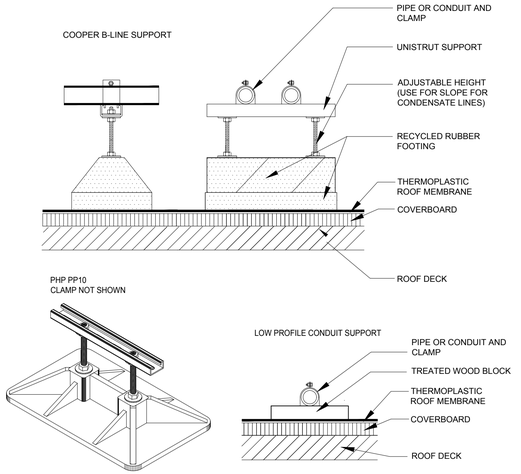
Firm Name and Address

SKYLINE ENGINEERING, INC.
8100 Wild Horse Road
Salinas CA 93907

Project Name and Address

LAS POSITAS COMMUNITY COLLEGE
3000 Campus Hill Drive
Livermore, CA
Building 400

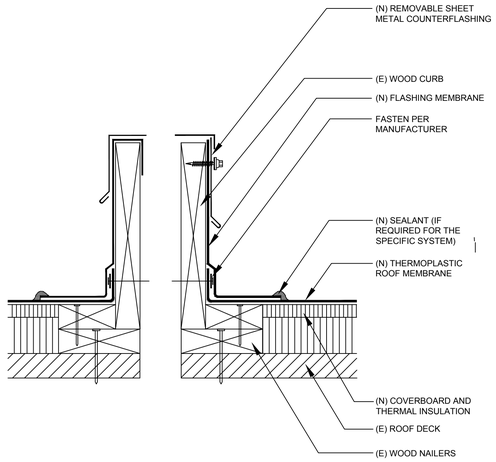
Project: Roof Replacement	Sheet: A-3 DETAILS
Date: November 2025	
Scale:	



NOTES:
1. USE THIS DETAIL/SYSTEM TO SECURE CONDENSATE LINES, ELECTRICAL CONDUITS OR OTHER LINES THAT DO NOT NEED TO BE MECHANICALLY ATTACHED TO THE ROOF SUBSTRATE.
2. BASE MAY BE ADHERED TO MEMBRANE TO PREVENT CONDUIT OR LINE FROM MOVING. USE APPROVED SEALANT AND DO NOT PENETRATE MEMBRANE.
3. CONDENSATE LINES SHALL HAVE POSITIVE SLOPE TO DRAIN.
4. USE LOW PROFILE SUPPORT ONLY WHEN EXISTING CONDUIT CANNOT BE RAISED.

7 CONDUIT AND PIPE SUPPORT

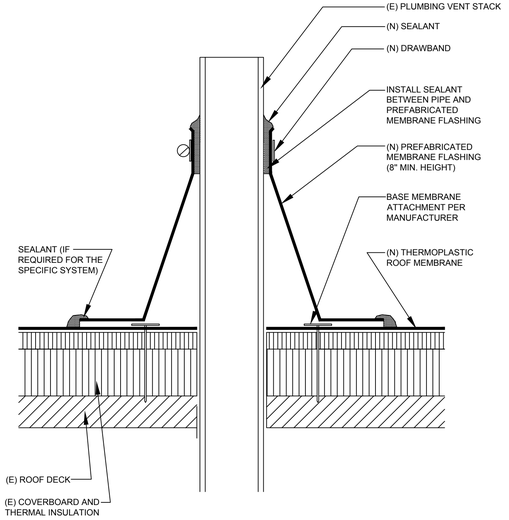
NOT DRAWN TO SCALE



NOTES
1. FOR EXISTING UNITS THAT NEED TO BE RAISED OR ARE EASILY REMOVED FROM THE CURB, DISCONNECT AND LIFT OFF CURB. INSTALL ADDED BLOCKING TO INCREASE CURB HEIGHT IF NECESSARY. INSTALL MEMBRANE UP AND OVER CURB. REINSTALL UNIT. REFER TO THE LEFT SIDE OF THIS DRAWING.
2. IF CURB HEIGHT IS SUFFICIENT AND AN EXISTING METAL PAN COUNTERFLASHING EXISTISTS, THEN INSTALL BASE FLASHING MEMBRANE UP AS HIGH AS POSSIBLE, ATTACH PER MANUFACTURER REQUIREMENT (NOT SHOWN FOR CLARITY), THEN INSTALL REMOVABLE SKIRT COUNTERFLASHING AS SHOWN. FASTEN SUFFICIENT TO HOLD IN PLACE USING SCREW FASTENER WITH RUBBER WASHER. REFER TO THE RIGHT SIDE OF THIS DRAWING.

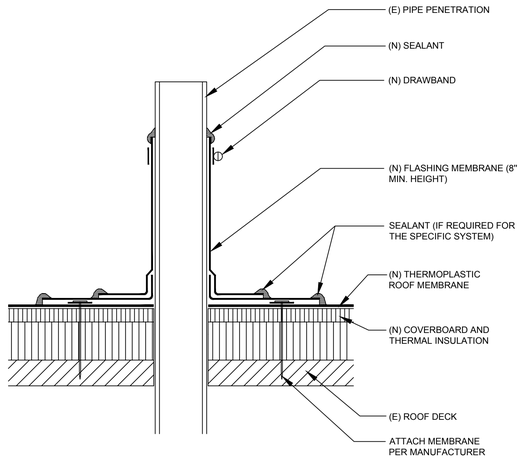
8 EQUIPMENT CURB (E)

NOT DRAWN TO SCALE



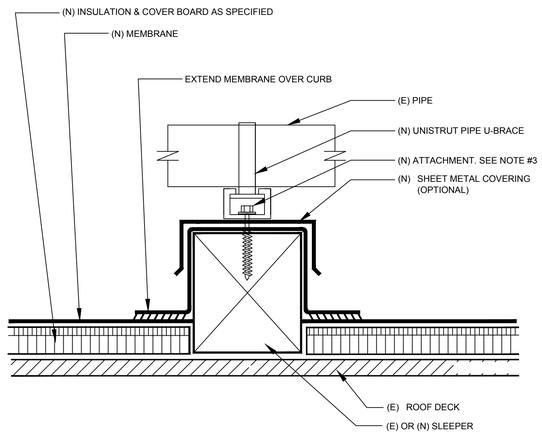
9 PLUMBING VENT

NOT DRAWN TO SCALE



10 ROUND PENETRATIONS (FIELD WRAP)

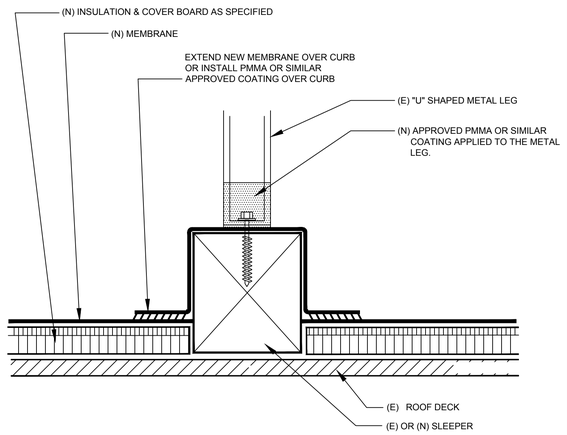
NOT DRAWN TO SCALE



NOTES:
1. THIS DETAIL SHOWS EXISTING LOW PROFILE SLEEPERS THAT ARE ALREADY ATTACHED TO THE ROOF DECK.
2. IF THE WOOD SLEEPER IS IN TACT, DO NOT MODIFY.
3. IF THE EXISTING SLEEPER NEEDS TO BE REPLACED, USE PRESSURE TREATED DF. ATTACH TO THE DECK USING ¼" LAG SCREW FASTENERS TWO PER SLEEPER. REMOVE EXISTING SHEET METAL COVERING. NEW SHEET METAL COVERING IS OPTIONAL.
4. EXISTING UNISTRUT ATTACHMENT SHALL BE REPLACED. USE #12 STAINLESS SCREW HEX HEAD. MIN DEPTH 1.5"
5. PROVIDE ANY AND ALL SEALANTS TO ENSURE A WATERTIGHT ASSEMBLY.

11 LOW PROFILE PROTECTED WOOD SLEEPER SUPPORT WITH UNI-STRUT PIPE SUPPORT

NOT DRAWN TO SCALE



NOTES:
1. WOOD SLEEPERS UNDER THE SITE SCREEN SUPPORT LEGS ARE ALREADY ATTACHED TO THE ROOF DECK.
2. IF THE WOOD SLEEPER IS IN TACT, DO NOT MODIFY.
3. IF THE EXISTING SLEEPER NEEDS TO BE REPLACED, USE PRESSURE TREATED DF. ATTACH TO THE DECK USING ¼" LAG SCREW FASTENERS TWO PER SLEEPER.
4. PROVIDE ANY AND ALL SEALANTS TO ENSURE A WATERTIGHT ASSEMBLY.

12 ANGLE IRON SUPPORTS AT SITE SCREEN

NOT DRAWN TO SCALE

General Notes

The purpose of these detail drawings is to provide the installer with a basic guideline for the installation of termination and projection flashings. Where field conditions warrant alteration of these details, the installer shall notify the University and Engineer of Record.

These drawings are not meant to depict the existing construction of substrate materials (roof decking, nailers, etc.). They are intended to show the design requirements of the roof coverings and flashings.

FLASHINGS:
1. Adhere elastomeric sheeting completely to flashing surface, can't, and roofing with Flashing Adhesive. Embed flashing into adhesive immediately.
2. Ensure complete bond and continuity without wrinkles or voids.
3. Any equipment that will not have curb heights of 8" above the final roof surface shall be extended or raised. If the proposed roofing system manufacturer will accept curb heights less than 8", contractor shall submit request in writing (from manufacturer) to University and engineer to withdraw this requirement. If a particular piece of equipment is impossible or not financially feasible to lift, raise or extend, contractor shall notify the engineer prior to the bid date for direction.
4. Install flashing in accordance with detail drawings and manufacturers guidelines. Details depicted in the drawings shall also conform with manufacturer's guidelines. Where conflict exists, the more stringent detail shall govern. If conflict exists between depicted drawings and manufacturer guidelines, the following process shall apply. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor and engineer. Contractor shall install the flashing only after it has been approved by the engineer and University. There shall be no additional charges for this proposed detail. It is the responsibility of the contractor to ensure that all manufacturers guidelines are accounted for in the base bid for this project.
5. ANY DETAIL NOT COVERED IN THESE SPECIFICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH GOOD ROOFING PRACTICE, N.R.C.A. RECOMMENDATIONS AND HAVE THE APPROVAL OF THE MANUFACTURER PROVIDED THE WARRANTY FOR THE ROOFING SYSTEM. If a detail is not covered in these specifications the following process will take place prior to the bid opening. Contact manufacturer responsible for flashing guarantee. Manufacturer shall inspect the detail and provide a recommended flashing design to the contractor. OR contractor may bid using the approved manufacturer detail. Contractor shall bid using the manufacturer-approved detail. Contractor shall submit detail drawing to University as part of the submittals. No change order will be given to the contractor for flashing details that were visible prior to construction. It is the responsibility of the contractor to cover in his bid all approved and specified details.

Drawn by:
Bryan Schalesky
Skyline Engineering

REGISTERED PROFESSIONAL ENGINEER
BRYAN SCHALESKY
M030834
EXP. 12-31-26
MECHANICAL
STATE OF CALIFORNIA

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LAS POSITAS COMMUNITY COLLEGE
3000 Campus Hill Drive
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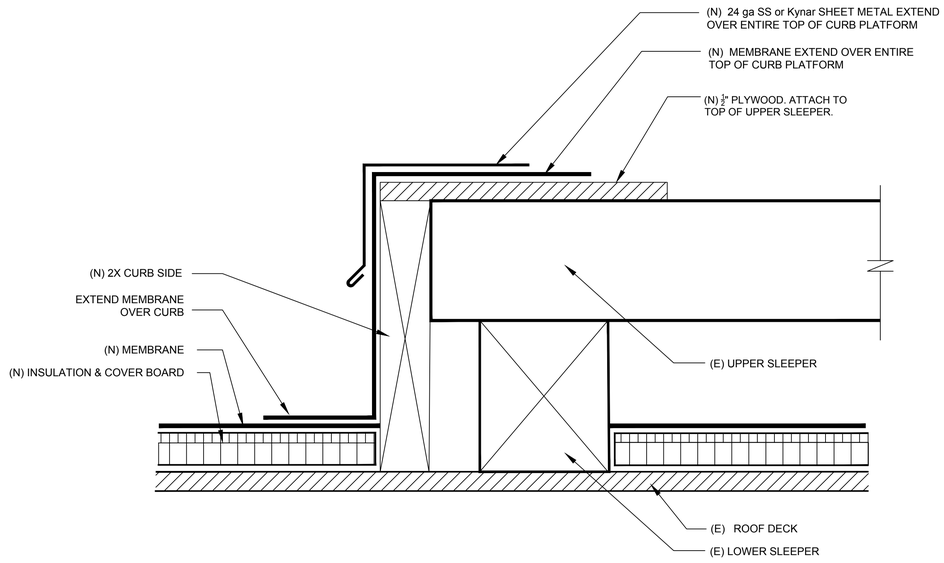
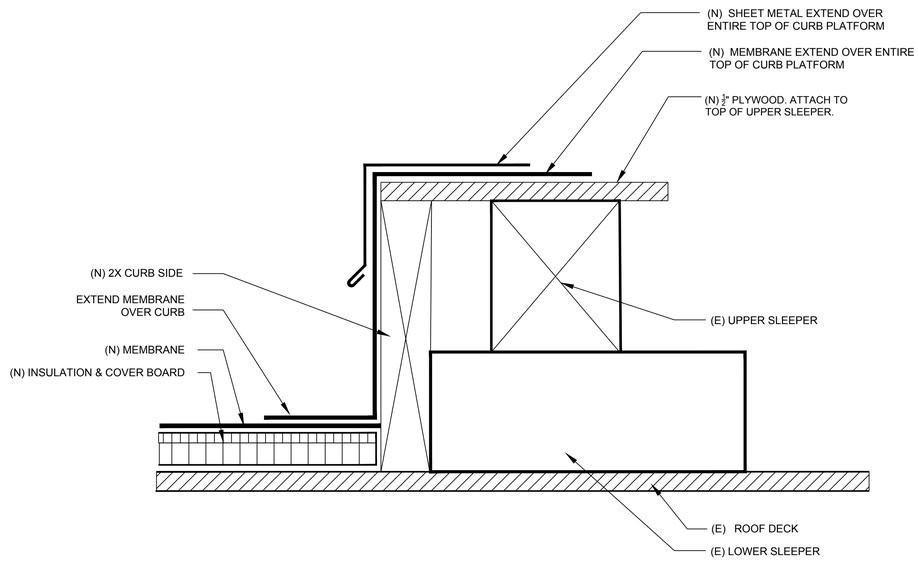
Building 400

Project	Sheet
Roof Replacement	A-4 DETAILS
Date: November 2025	
Scale:	



SIDE VIEW



END VIEW

NOTES:
1. THIS DRAWING SHOWS HOW TO BUILD AN ENCLOSED CURB AROUND EXISTING SLEEPER FOOTINGS. EXISTING SLEEPERS ARE ALREADY ATTACHED TO THE STRUCTURE PROVIDING SUPPORT FOR THE EQUIPMENT. EXISTING EQUIPMENT WILL NEED TO BE CAREFULLY LIFTED IN ORDER TO INSTALL THE CURBS. MAKE ALL NECESSARY DISCONNECTIONS AND RECONNECTIONS TO ENABLE CONSTRUCTION.
2. PLYWOOD CURB COVERINGS SHALL BE ATTACHED USING STAINLESS STEEL #12 SCREWS (NOT SHOWN FOR CLARITY). INSTALL 6" O.C.
3. THE ENCLOSED CURB IS A NON-STRUCTURAL COMPONENT THE PURPOSE OF WHICH IS TO PROVIDE A SUBSTRATE FOR PROPER ROOF FLASHINGS
4. AFTER THE CURB IS CONSTRUCTED, RE-ATTACH THE EQUIPMENT TO THE CURB. SEE GENERAL NOTES ON THIS PAGE.

13 ENCLOSED CURB AROUND EQUIPMENT

NOT DRAWN TO SCALE

General Notes

If another configuration is desired, provide the District and Engineer with shop drawings for approval.

Drawn by:
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Skyline Engineering

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