

DISCIPLINE DESIGNATION
G = GENERAL
S = STRUCTURAL
A = ARCHITECTURAL
M = MECHANICAL
E = ELECTRICAL

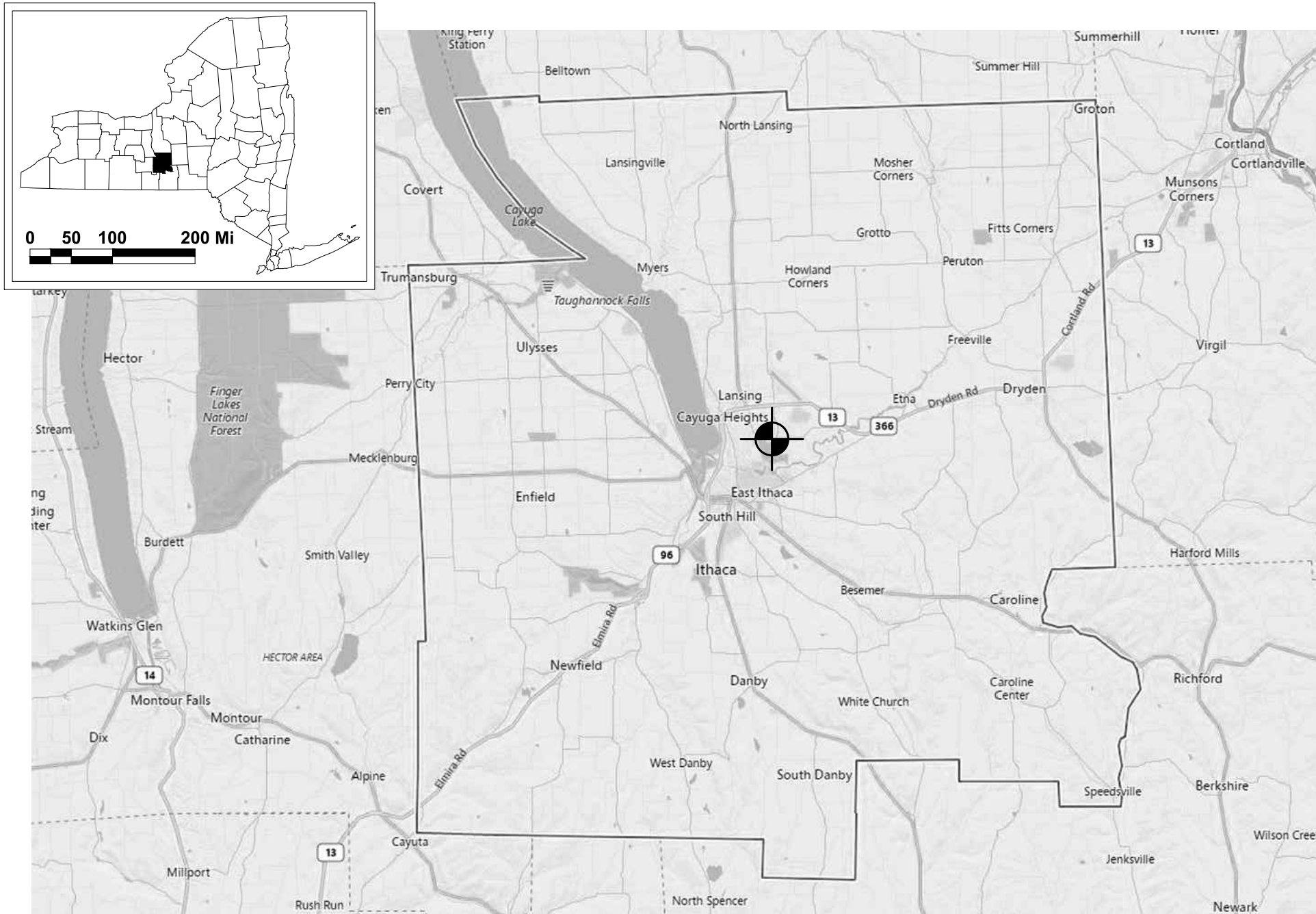
SHEET TYPE
0 = GENERAL
1 = PLANS
5 = DETAILS

SHEET NUMBER: **G - 001**

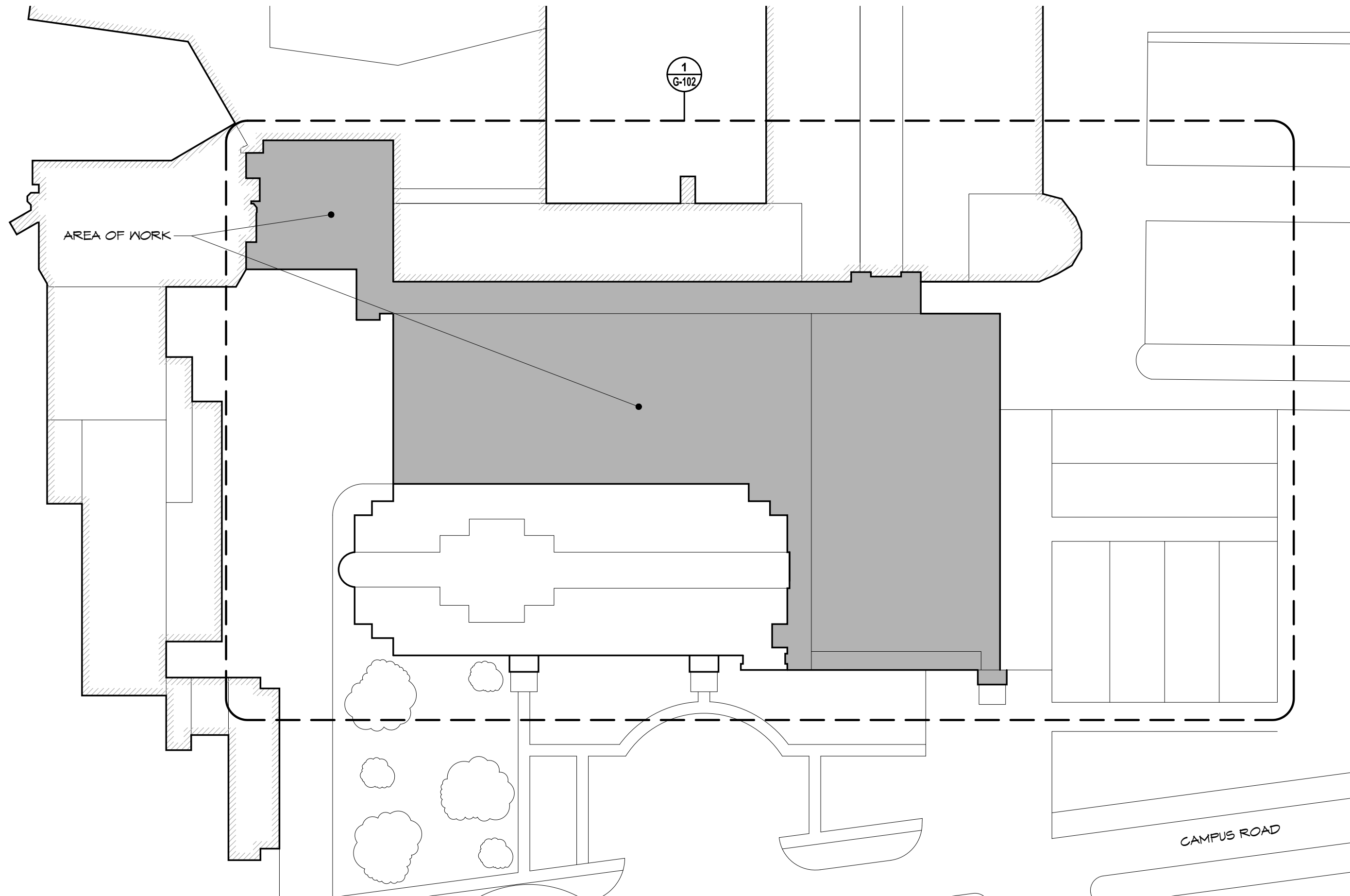
NUMBERING CONVENTION

SHEET SEQUENCE NO.

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G-102	SITE PLAN AND SAFEGUARD NOTES
S-101	DESIGN DATA AND GENERAL NOTES - PH1
S-102	SNOW DRIFT LOADING PLAN - PH1
A-101	GENERAL ROOFING NOTES AND ABBREVIATIONS
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A-103	ROOF PLAN
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M-501	DETAILS - MECHANICAL
E-000	GENERAL NOTES AND ABBREVIATIONS - ELECTRICAL
E-101	PARTIAL ROOF PLANS - ELECTRICAL
E-501	DETAILS - ELECTRICAL



LOCATION MAP



SITE PLAN

bell & spina
ARCHITECTS

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Syracuse, NY 13204
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1163 Pittsford-Victor Rd
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PROJECT#: 319-24-032

10/10/2025

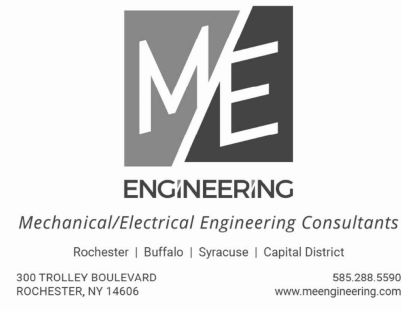
**CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER -
PHASE 1
ITHACA, NY 14853
CLIENT PROJECT NO: SUCF 191026**

SET NUMBER:

**RYAN BIGGS
CLARK DAVIS**
ENGINEERING & SURVEYING
1326 New Seneca Turnpike, Suite B3
Saratoga Springs, NY 12152 p. 315.685.4732
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EXPIRATION DATE: September 30, 2027



Reg. Exp: 04/30/2026
Cert. of Auth: 0018443

These plans and specifications were prepared by Bell & Spina P.C. Architects / Planners, Syracuse, New York 13204, and to the best of this Office's knowledge, information and belief, said plans and specifications meet the requirements of the 2020 New York State Uniform Building Code and 2020 New York State Energy Conservation Code (Title 19 NYCRR - NYS Uniform Fire Prevention and Building Code and NYS Energy Conservation Code).

After visiting the site of the work and fully informing themselves as to all existing conditions and limitations, each bidder is required to notify the office of the Architect, in writing, prior to the bidding, of any existing conditions shown on the drawings that have been changed and would prevent the intended installation of new work.

It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer and/or Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

To the best of my knowledge, information, and belief, the construction documents for this project are in conformance with the Building Code of New York State and Energy Conservation Construction Code and all other applicable Federal and State laws and regulations, all as currently amended.



REGISTRATION EXPIRES: 08/31/2028

BUILDING CODE SUMMARY DATA				
BUILDING NAME AND LOCATION	REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1 930 CAMPUS ROAD ITHACA, NY 14853 COUNTY			
CODE REFERENCE	2020 NYS BUILDING CODE AND / OR 2020 NYS EXISTING BUILDING CODE			
ITEM (SECTION)	EXISTING	REQ.	PROPOSED	REMARKS
ALTERATION CLASSIFICATION TYPE (BCNYS CHAPTER 5)			ALTERATIONS LEVEL 1	ROOF REPLACEMENT IN KIND
USE & OCCUPANCY GROUP (BCNYS CHAPTER 3)	B		N/C	
CONSTRUCTION TYPE (BCNYS CHAPTER 6)	1B		N/C	
BUILDING HEIGHT (BCNYS 504.3)	32'-4"±	N/C	N/C	
BUILDING AREA (BCNYS 506.2)	N/C	N/C	N/C	
BUILDING NO. STORIES (BCNYS TBL 504.4)	3	N/C	N/C	
MIXED USE AND OCCUPANCIES				
SEPARATION OF OCCUPANCIES (BCNYS 508.4)	N/C	N/C	N/C	
INCIDENTAL USES (BCNYS 509)	N/C	N/C	N/C	
ACCESSORY USE AREAS (BCNYS 509.2)	N/C	N/C	N/C	
SPECIAL USE & OCCUPANCY (BCNYS CHAPTER 4)	N/C	N/C	N/C	
MEANS OF EGRESS (BCNYS CHAPTER 10)	N/C	N/C	N/C	
ACCESSIBILITY (BCNYS CHAPTER 11)	N/C	N/C	N/C	
N/A - NOT APPLICABLE N/C - NO CHANGE N/R - NOT REQUIRED N/P - NOT PROVIDED				
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONALS KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE				

ECCNYS COMPLIANCE DATA				
COUNTY	TOMPKINS COUNTY			
CLIMATE ZONE	6A			
COMMERCIAL / RESIDENTIAL	COMMERCIAL			
COMPLIANCE METHOD (IECC SECTION C401)	ECCNYS CHAPTER 4			
ENVELOPE SCOPE OF WORK	REPLACEMENT OF ROOF COVERING/INSULATION, ROOF ACCESS DOORS AND SKYLIGHTS			
ITEM (SECTION)	EXISTING	REQ.	PROPOSED	REMARKS
ROOF INSULATION				
INSULATION ABOVE ROOF DECK	R-20ci	R-30ci	R-30ci	
ATTIC INSULATION	N/C	N/C	N/C	
WALLS ABOVE GRADE	N/C	N/C	N/C	
WALLS BELOW GRADE	N/C	N/C	N/C	
SLAB ON GRADE				
FENESTRATION				
VERTICAL FENESTRATION (MAX30%)	N/C	N/C	N/C	
U-FACTOR (FIXED)	N/C	N/C	N/C	
U-FACTOR (OPERABLE)	N/C	N/C	N/C	
SHGC	N/C	0.40	0.35	
U-VALUE (SKYLIGHTS)	N/C	0.30	0.35	
AIR LEAKAGE	N/C	N/C	N/C	
VAPOR RETARDER	N/C	N/C	N/C	
AIR BARRIER	N/C	N/C	N/C	
N/A - NOT APPLICABLE N/C - NO CHANGE N/R - NOT REQUIRED N/P - NOT PROVIDED				
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONALS KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.				

GENERAL DESIGN NOTES:

1. THIS PROJECT IS DESIGNED IN ACCORDANCE WITH 2020 BUILDING CODE OF NEW YORK STATE (REFERENCING THE 2019 INTERNATIONAL CODES).

2. EXPOSED MATERIALS THAT WERE ANTICIPATED TO BE WITHIN THE SCOPE OF THIS PROJECT AT THE TIME OF DESIGN HAVE BEEN TESTED FOR ASBESTOS AND LEAD PAINT CONTENT. SEE THE HAZARDOUS MATERIAL SURVEY REPORT APPENDED TO THE PROJECT MANUAL FOR A LIST OF TESTED MATERIALS, AND THEIR RESULTS. IN SUMMARY, ACM MATERIALS & LEAD BASED MATERIALS ARE NOT ANTICIPATED TO BE DISTURBED.

3. THE SCOPE OF WORK GENERALLY INCLUDES THE FOLLOWING:

3.1. COMPLETE REMOVAL AND REPLACEMENT OF THE EXISTING ROOF ASSEMBLY DOWN TO THE STEEL AND CONCRETE ROOF DECKS AND ASSOCIATED ROOF FLASHINGS,

3.2. INSTALLATION OF NEW INSULATED ROOF ASSEMBLIES,

3.3. INCIDENTAL REPLACEMENTS OF ROOFTOP ELECTRICAL COMPONENTS,

3.4. NEW THROUGH-WALL FLASHINGS,

3.5. RELATED BUILDING/ OCCUPANT PROTECTION AND SITE RESTORATION,

4. THE ROOFING SYSTEMS AND FLASHINGS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH FM GLOBAL STANDARDS TO ACHIEVE A 1-40 RATING (ZONE 1) UNLESS NOTED OTHERWISE. CUSTOM FABRICATED PERIMETER EDGE METAL FLASHINGS ARE REQUIRED TO TESTED AND APPROVED IN ACCORDANCE WITH ANSI/SFRI/FM-4435/ES-1 UNDER THIS CONTRACT. REFER TO THE PROJECT SPECIFICATIONS.

5. PROJECT MOCKUPS: MOCKUP REQUIREMENTS ARE INNUMERATED IN THE PROJECT SPECIFICATIONS. THE FOLLOWING IN PLACE OR ON THE BUILDING MOCKUPS ARE REQUIRED. LOCATIONS TO BE APPROVED BY THE ARCHITECT

6. BID ALTERNATES: THE PROJECT INCLUDES THE FOLLOWING BID ALTERNATES AS INDICATED ON THE DRAWINGS:

6.1. ADD ALTERNATE #1: REMOVE AND REPLACE ROOF ASSEMBLY FOR ROOF AREA 1164-001B AND 1164-012.

6.2. ADD ALTERNATE #2: REMOVE AND REPLACE ROOF ASSEMBLY FOR ROOF AREA 1164-008

6.3. ADD ALTERNATE #3: REMOVE AND REPLACE ROOF ASSEMBLY FOR ROOF AREA 1163-001

7. ROOF DIAPHRAGM EVALUATION (IN ACCORDANCE WITH THE 2020 IBCG CHPT 106.3.2)

7.1. PROVIDE THE THE UNIVERSITY DESIGNATED REPRESENTATIVE AND THE DESIGN CONSULTANT/ STRUCTURAL ENGINEER SAFE ACCESS TO EVALUATE THE CONDITION OF THE STRUCTURAL ROOF DECK, DIAPHRAGM, FRAMING AND CONNECTIONS AS REQUIRED BY THE EXISTING BUILDING CODE OF NYS.

7.2. THE UNIVERSITY DESIGNATED REPRESENTATIVE SHALL BE GIVEN A MINIMUM OF TWO (2) WEEKS NOTICE OF REMOVALS.

7.3. DURING REMOVALS, EXPOSE REPRESENTATIVE LOCATIONS OR CONDITIONS FOR REVIEW.

7.4. BE RESPONSIBLE FOR PROVIDING WEATHERTIGHTNESS AT EACH REMOVAL LOCATION.

8. CONTRACTOR SHALL INCLUDE 1000 SF OF APPLIED FIRE PROTECTION, PER SPECIFICATION 078100 TO REPAIR ANY AREAS DISTURBED BY THE WORK OF THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AREAS DISTURBED WITH PROVIDED FIRE PROTECTION

DESIGN WIND UPLIFT NOTES

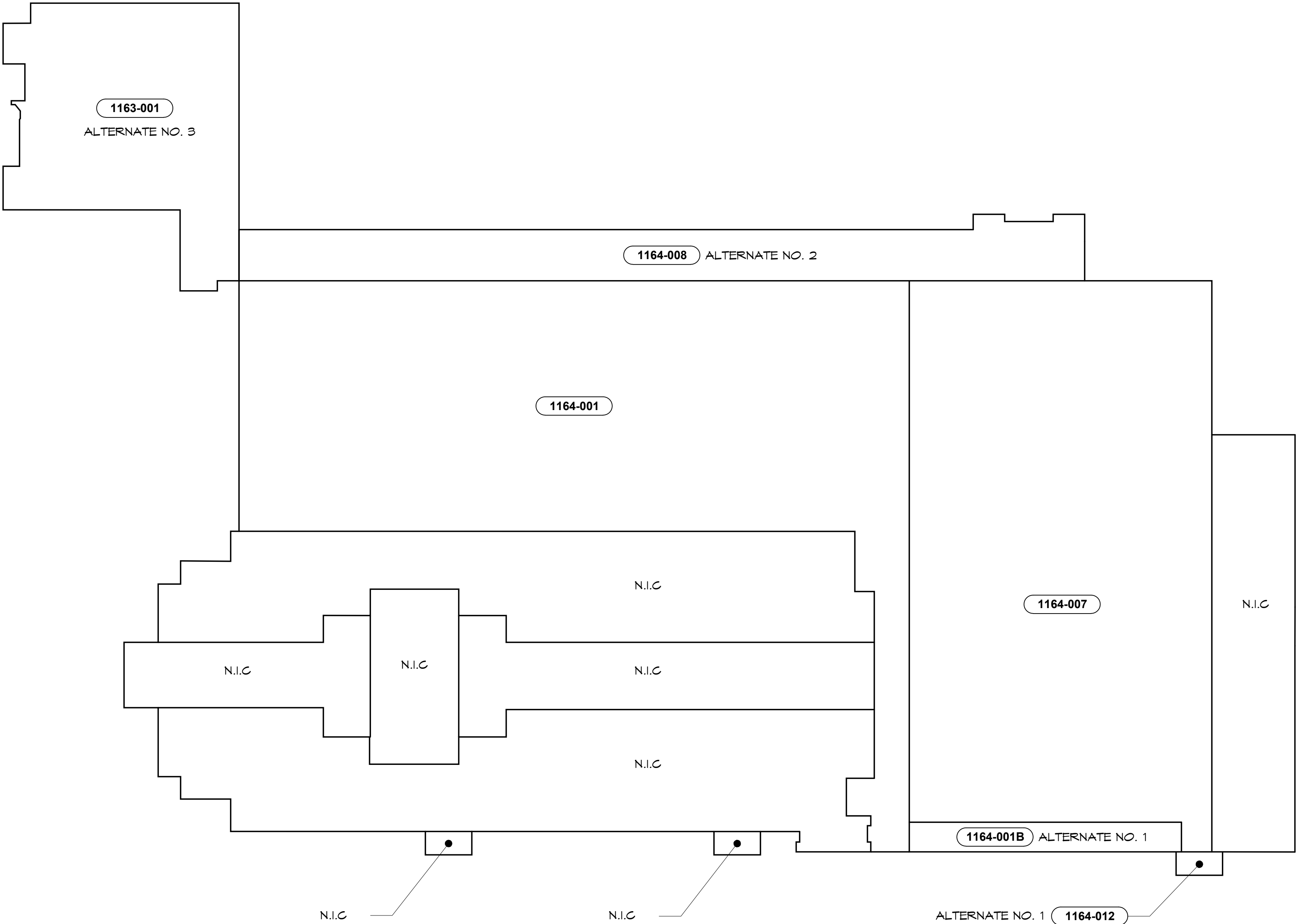
1. DESIGN WIND UPLIFT PRESSURES ARE DERIVED IN ACCORDANCE WITH ASCE 7-16 AND/OR THE 2020 NYS UNIFORM FIRE PREVENTION AND BUILDING CODE.

2. WIND PRESSURES ARE CONSERVATIVELY BASED ON AN EFFECTIVE COMPONENT & CLADDING AREA OF 10 SQUARE FEET OR LESS. PRESSURES ARE APPLIED NORMAL TO THE SURFACE OF THE COMPONENT OR CLADDING.

3. THE ROOFING MANUFACTURER SHALL PROVIDE A TOTAL SYSTEM CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 2.0x FACTOR OF SAFETY.

4. THE MANUFACTURER OF METAL EDGE COMPONENTS FOR THE ROOF PERIMETER SHALL PROVIDE SYSTEMS CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 1.67x FACTOR OF SAFETY.

5. MISCELLANEOUS FASTENERS ANCILLARY TO THE PROPRIETARY SYSTEMS OF THE ROOFING AND METAL EDGE COMPONENT MANUFACTURERS SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT PRESSURES AT THE DEPICTED LOCATIONS, APPLYING A MINIMUM 4.0x FACTOR OF SAFETY.



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PROJECT NORTH

CONSULTANT

PROJECT NUMBER
319-24-032

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MARK	DATE	DESCRIPTION

DRAWN ZEH	CHECKED DKA
DATE 10/10/2025	SCALE AS NOTED

CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1
930 CAMPUS ROAD
ITHACA, NY 14853
CLIENT PROJECT NO.: SUCF 191026

SHEET TITLE
CODE DATA,
GENERAL NOTES,
AND OVERALL PLAN

SHEET NUMBER
G-101

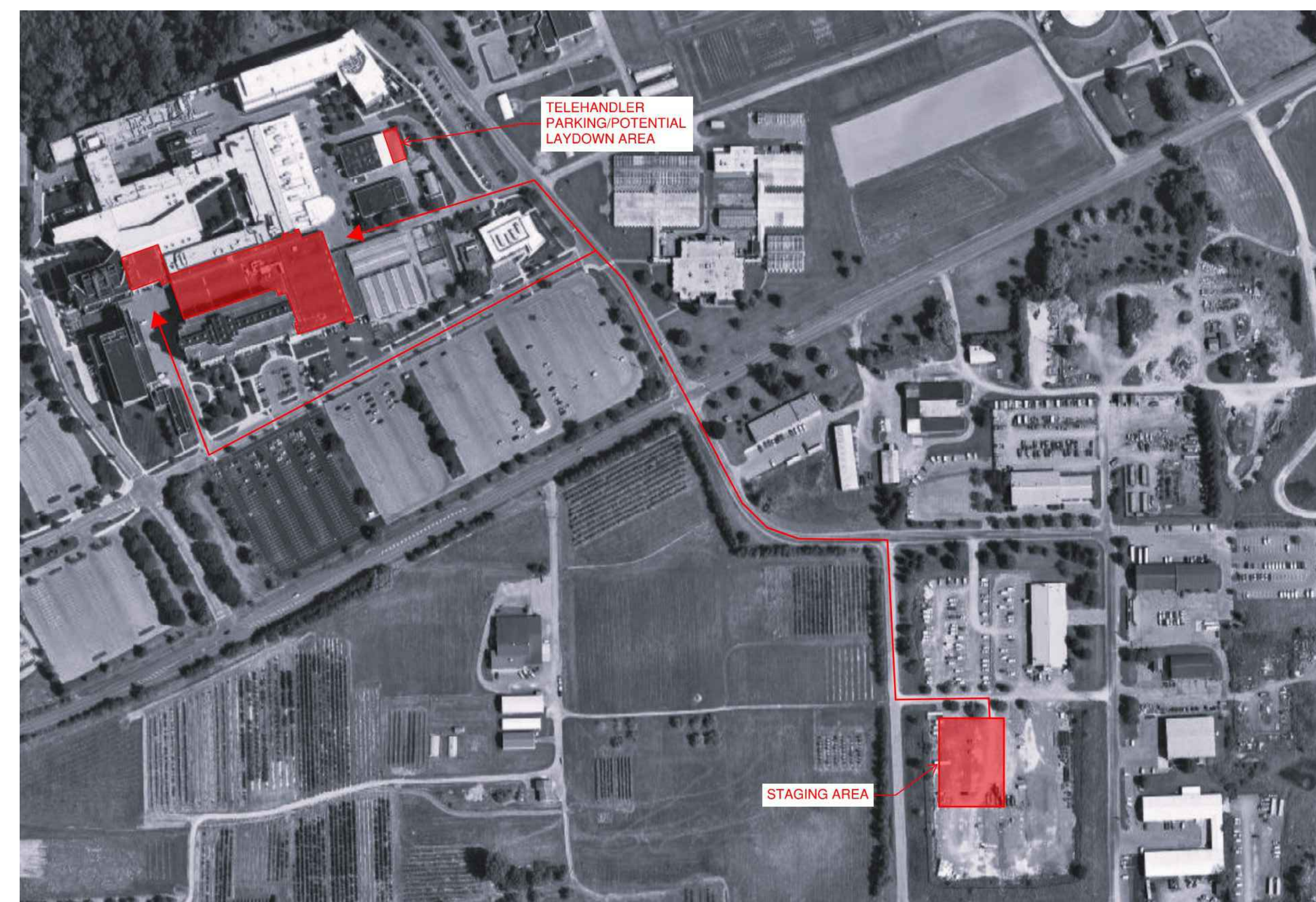
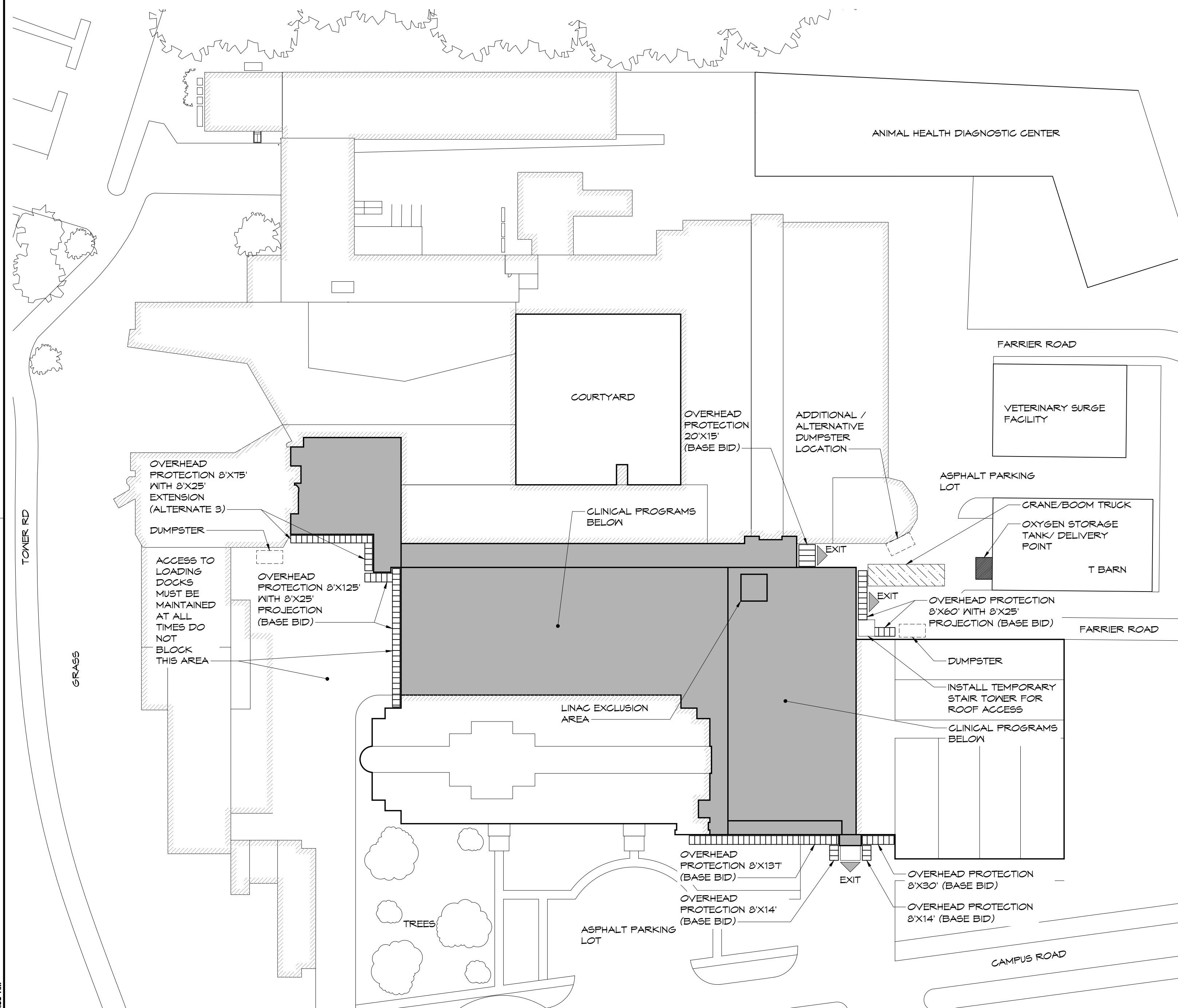
SHEET 2 OF 25

10/10/2025 3:45:17 PM ZACH HOOKER

1. PEDESTRIANS AND EGRESS PATHWAYS SHALL REMAIN UNOBSTRUCTED AND PROTECTED DURING THE WORK. COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - 1.1. OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
 - 1.2. 2020 BUILDING CODE OF NYS, CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION
 - 1.3. 2020 EXISTING BUILDING CODE OF NYS, CHAPTER 15 CONSTRUCTION SAFEGUARDS.
 - 1.4. 2020 FIRE CODE OF NYS, CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
2. THE BUILDING WILL BE OCCUPIED DURING THE CONSTRUCTION PERIOD. PROVIDE OVERHEAD PROTECTION AT ALL INGRESS/EGRESS DOORS (ENTRANCES, OVERHEAD DOORS AND EXIT DOORS) IN THE VICINITY OF THE WORK AREA AND MAINTAIN FOR THE DURATION OF THE WORK AS FOLLOWS:
 - A. PROVIDE APPROPRIATE OVERHEAD SCAFFOLDING/BRIDGING FOR OCCUPANTS ENTERING AND EXITING THE BUILDING TO PROTECT FROM FALLING DEBRIS DURING THE CONSTRUCTION. IT MAY ALSO DOUBLE AS A CONTRACTOR ACCESS TO THE WORK. STORAGE OF MATERIALS ON SCAFFOLDING SHALL ONLY BE PERMITTED IF THE SYSTEM IS DESIGNED AND ENGINEERED FOR MATERIAL STORAGE.
 - B. CONSTRUCT SYSTEM IN ACCORDANCE WITH NYS UNIFORM FIRE PREVENTION AND BUILDING CODE AND OSHA REGULATIONS.
 - C. WHERE SUBJECT TO IMPACT FROM VEHICLES OR EQUIPMENT, PROVIDE BARRIERS TO PROTECT THE SYSTEMS FROM IMPACT.
 - D. PROVIDE TEMPORARY SIGNAGE ON THE PROTECTION COMPONENTS INDICATING ROOF CONSTRUCTION WORK.
 - E. PROVIDE A MINIMUM 1 FOOTCANDLE (Fc) TEMPORARY CONSTRUCTION LIGHTING AT DOOR LOCATIONS BELOW OVERHEAD PROTECTION SCAFFOLDING.
 - F. SUCH SYSTEMS SHALL BE PREPARED, DESIGNED AND STAMPED BY A NYS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH THE OWNER INCLUDE THE OVERHEAD PROTECTION SYSTEM AS PART OF THE SUBMITTED SAFETY PLAN.
 - G. REPAIR/ RESTORE SYSTEM ANCHORAGE OR ATTACHMENT POINTS ON THE BUILDING.
3. PROVIDE TEMPORARY CONSTRUCTION BARRIERS AT OTHER AREAS AROUND THE WORK AREA TO PROTECT PEDESTRIANS IN ACCORDANCE WITH THE FOLLOWING:

1. MATERIAL STAGING & LAYDOWN AREAS AND CRANE ACCESS LOCATIONS ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE FINAL CRANE STAGING CONTRACTOR STAGING AREA, ACCESS, PARKING, DELIVERY & STORAGE WITH THE UNIVERSITY DESIGNATED REPRESENTATIVE PRIOR TO MOBILIZATION.
- 1.1. PROVIDE A CRANE PICK PLAN SUBMITTAL FOR REVIEW FOR ALL CRANE OPERATIONS. INCLUDE CRANE LOADING INFORMATION, OPERATOR CERTIFICATIONS, LAYDOWN AND PICK SITE PLAN FOR ARCHITECT AND UNIVERSITY DESIGNATED REPRESENTATIVE PRIOR TO WORK.
- 1.2. CONTRACTOR TO FLAGMAN TO DIRECT TRAFFIC ACCEPTING MATERIAL DELIVERIES OR EQUIPMENT MOVEMENT TO PROVIDE SAFE PASSAGE TO CONSTRUCTION AREAS. TEMPORARY ROAD CLOSURES MUST BE COORDINATED IN ADVANCE. MAINTAIN ROAD ACCESS WIDTH IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS BUT NOT LESS THAN 14'-0" WIDE.
2. CONTRACTOR SHALL BARRICADE, IN THE FORM OF A 6'-0" HIGH CHAIN LINK FENCE, THE PERIMETER OF ALL STAGING AREAS TO PREVENT PUBLIC ACCESS. THE BARRICADE SHALL HAVE A LOCKABLE 12'-0" WIDE DOUBLE GATE.
- 2.1. PROVIDE TEMPORARY WAYFINDING AND CONSTRUCTION CAUTION SIGNAGE TO DIRECT PEDESTRIAN TRAFFIC AROUND BUILDING TO AVAILABLE ENTRANCES; SIGNAGE SIZE: 12' X 24", COROPLAST BOARD OR OTHER APPROVED MATERIAL, MOUNTED TO TEMPORARY CONSTRUCTION FENCE WITH HEAVY DUTY NYLON CABLE TIES THROUGH (4) EYELETS AT CORNERS.
- 2.2. PROVIDE INTERIOR SIGNAGE AND THROUGHOUT THE BUILDING DIRECTING PEDESTRIAN TRAFFIC AS NEEDED BASED ON TEMPORARY STAGING TO ALTERNATE EXIT LOCATIONS.
- 2.3. PROVIDE RUBBER PARKING WHEEL BLOCKS AT ALL ADJACENT PARKING SPACES ABUTTING THE FENCING TO PROTECT FROM IMPACT.
- 2.4. PROVIDE FENCE SCREENING MOUNTED ON THE INSIDE OF THE FENCE AROUND THE PERIMETER OF ALL STAGING AREAS AND TEMPORARY CONSTRUCTION FENCES. COLOR BLACK. VISIBILITY PERCENTAGE 90%.
- 2.5. FENCE POSTS LOCATED IN GRASS AREAS MAY BE DRILLED. POSTS AND BASE OF FENCE ON IMPERVIOUS SURFACES TO BE BALLASTED WITH OUTRIGGERS ADEQUATELY DESIGNED TO WITHSTAND WIND LOADS FROM OVERTURNING THE FENCE. CALL UFFD DIG SAFELY TO SURVEY AND MARK AREA FOR UTILITIES.
3. SITE PLAN INFORMATION IS BASED ON RECORD INFORMATION PROVIDED. NOT ALL EXISTING UTILITIES, TREES, LANDSCAPING, SIDEWALKS, PAVEMENTS, EQUIPMENT, FIXTURES AND TOPOGRAPHIC INFORMATION MAY BE SHOWN. CONTRACTOR SHALL FIELD VERIFY AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. REPAIR AND RESTORE ANY DAMAGE TO EXISTING CONSTRUCTION AND SITE WORK RESULTING FROM THE WORK OF THIS PROJECT INCLUDING BUT NOT LIMITED TO: GRASSED OR LANDSCAPED AREAS, CURBS, WALKWAYS, CATCH BASINS, PAVEMENT, ETC. CAUSED BY THE WORK OF THIS PROJECT. REPAIRS ARE TO MATCH ORIGINAL/ADJACENT SURFACES UNLESS NOTED OTHERWISE. CONTRACTOR TO TAKE PHOTOGRAPHS OF SITE PRIOR TO START OF WORK AND SUBMIT TO THE UNIVERSITY'S DESIGNATED REPRESENTATIVE.
4. EXTERIOR EGRESS PATHS, WALKWAYS, AND ENTRANCES SHALL REMAIN UNOBSTRUCTED AND PROTECTED. REFER TO CONSTRUCTION SAFEGUARD NOTES ON 6-102. PROVIDE ALTERNATE CIRCULATION AS NEEDED TO ACCESS THE WORK.
5. FIRE DEPARTMENT ACCESS AND FIRE DEPARTMENT CONNECTIONS TO REMAIN UNOBSTRUCTED DURING DURATION OF WORK.

HEIGHT OF CONSTRUCTION	DISTANCE OF CONSTRUCTION TO LOT LINE OR WALKWAY	TYPE OF PROTECTION REQUIRED
MORE THAN 8 FEET	LESS THAN 5 FEET	BARRIER AND OVERHEAD PROTECTION
	5 FEET OR MORE, BUT NOT MORE THAN ONE-FOURTH THE HEIGHT OF CONSTRUCTION	BARRIER AND OVERHEAD PROTECTION
	5 FEET OR MORE, BUT BETWEEN ONE-FOURTH AND ONE-HALF THE HEIGHT OF CONSTRUCTION	BARRIER
	5 FEET OR MORE, BUT EXCEEDING ONE-HALF THE HEIGHT OF CONSTRUCTION	NONE (FENCE)
PROVIDE OVERHEAD PROTECTION AT ENTRANCE/ EXIT COMPLYING WITH BCNYS CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION AND EBCNYS CHAPTER 15 CONSTRUCTION SAFEGUARDS.		



1. MASONRY WORK SHALL BE SUBSTANTIALLY COMPLETED PRIOR TO ROOFING WORK
2. ROOFING AND MASONRY WORK SHALL NOT PROCEED INTO WINTER MONTHS (NOVEMBER - APRIL) WITHOUT PRIOR REVIEW AND APPROVAL FROM ARCHITECT, UNIVERSITY, AND ROOFING MANUFACTURER. PROVIDE ALL NIGHT TIME AND SEASONAL ROOF TERMINATIONS
3. WORK OVER CLINICAL PROGRAMS (1164-001, 1164-007) MUST BE SUBMITTED AND APPROVED BY THE UNIVERSITY'S DESIGNATED REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY OVER SPECIFIED AREAS
4. WORK IN LINAC EXCLUSION AREA MUST BE COORDINATED WITH THE UNIVERSITY'S DESIGNATED REPRESENTATIVE BEFOREHAND FOR CONTRACTOR'S SAFETY/PROTECTION.

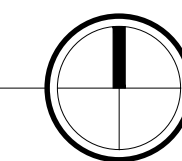
SITE PLAN LEGEND	
SYMBOL	DESIGNATION
	AREA OF WORK
	OVERHEAD PROTECTION
	CONTRACTOR DUMPSTER
	CRANE/BOOM TRUCK LOCATION



REGISTRATION EXPIRES: 08/31/2028

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PROJECT
NORTH



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CORNELL UNIVERSITY
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SHEET TITLE

SITE PLAN AND SAFEGUARD NOTES

SHEET NUMBER
G-102

SHEET 3 OF 25

1. GENERAL

DESIGN PROVISIONS	2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
RISK CATEGORY	II
TERRAIN/EXPOSURE CATEGORY	C
SITE GROUND ELEVATION	902 FT
BASIC SEISMIC/MAIN WIND FORCE RESISTING SYSTEM:	
NORTH-SOUTH	STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC
EAST-WEST	STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC

DESIGN PROVISIONS2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
COMPLIANCE METHOD (EBCNYS) WORK AREA
CLASSIFICATION OF WORK (EBCNYS) ALTERATION LEVEL 1

THE FOLLOWING GRAVITY LOAD CARRYING ELEMENTS HAVE BEEN EVALUATED BASED ON THE LIVE LOAD AND DEAD LOAD REQUIREMENTS DESCRIBED BELOW:
ROOF DECK AND SLABS, ROOF BEAMS AND GIRDERS, AND COLUMNS

EXISTING STRUCTURAL ELEMENTS RESISTING LATERAL LOADS ARE NO LESS CONFORMING TO THE PROVISIONS OF THE 2020 EBCNYS WITH RESPECT TO SEISMIC DESIGN THAN THEY WERE PRIOR TO THIS WORK. THEREFORE, LATERAL LOADS HAVE NOT BEEN EVALUATED FOR THIS STRUCTURE.

FLOORS AND ROOFS HAVE BEEN DESIGNED TO SUPPORT THE UNIFORMLY DISTRIBUTED LIVE LOAD OR THE CONCENTRATED LIVE LOADS NOTED BELOW, WHICHEVER PRODUCED THE GREATER LOAD EFFECTS.

ROOF	20 psf
FLOORS: (WHERE FRAMING SUPPORTS ROOF AND FLOOR)	100 psf

GROUND SNOW LOAD (P_g)	40 psf
FLAT-ROOF SNOW LOAD (P_f)	31 psf
SNOW EXPOSURE FACTOR (C_e)	1
THERMAL FACTOR (C_t)	1
IMPORTANCE FACTOR (I_s)	1
FLAT-ROOF SNOW LOAD AT EXTERIOR CANOPY ROOFS (P_{fg}) [$C_t = 1.2$]	34 psf

DRIFTED, UNBALANCED, AND SLOPED-ROOF SLIDING SNOW IN ACCORDANCE WITH AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE STANDARD 7-16).

SEE S102 FOR LOADING DIAGRAMS.

ROOF:SEE S102 SNOW LOADING DIAGRAM
FLOORS:106 psi

PORION OF ABOVE DEAD LOAD CONSIDERED FOR MECHANICAL EQUIPMENT AND PIPING
SUSPENDED FROM STRUCTURAL FRAMING:

1164 METAL DECK ROOF:	25 psi
ALL OTHER ROOFS:	5 psi
FLOORS: (LOCATION)	5 psi

(CONCENTRATED LOADS SHALL BE LIMITED TO THOSE WHICH INDUCE MOMENTS AND SHEARS IN MEMBERS NOT GREATER THAN THOSE INDUCED BY THE NOTED UNIFORMLY DISTRIBUTED LOADS.)

DO NOT SUSPEND CONCENTRATED LOADS IN EXCESS OF 50 POUNDS EACH FROM COMPOSITE SLABS ON METAL DECK.

DO NOT SUSPEND CONCENTRATED LOADS FROM ROOF DECK.

SEE PLAN FOR LOCATIONS AND WEIGHTS OF LARGE EQUIPMENT. WEIGHT OF THIS EQUIPMENT IS IN ADDITION TO THE UNIFORM LOADS INDICATED ABOVE. SEE STRUCTURAL STEEL NOTES.

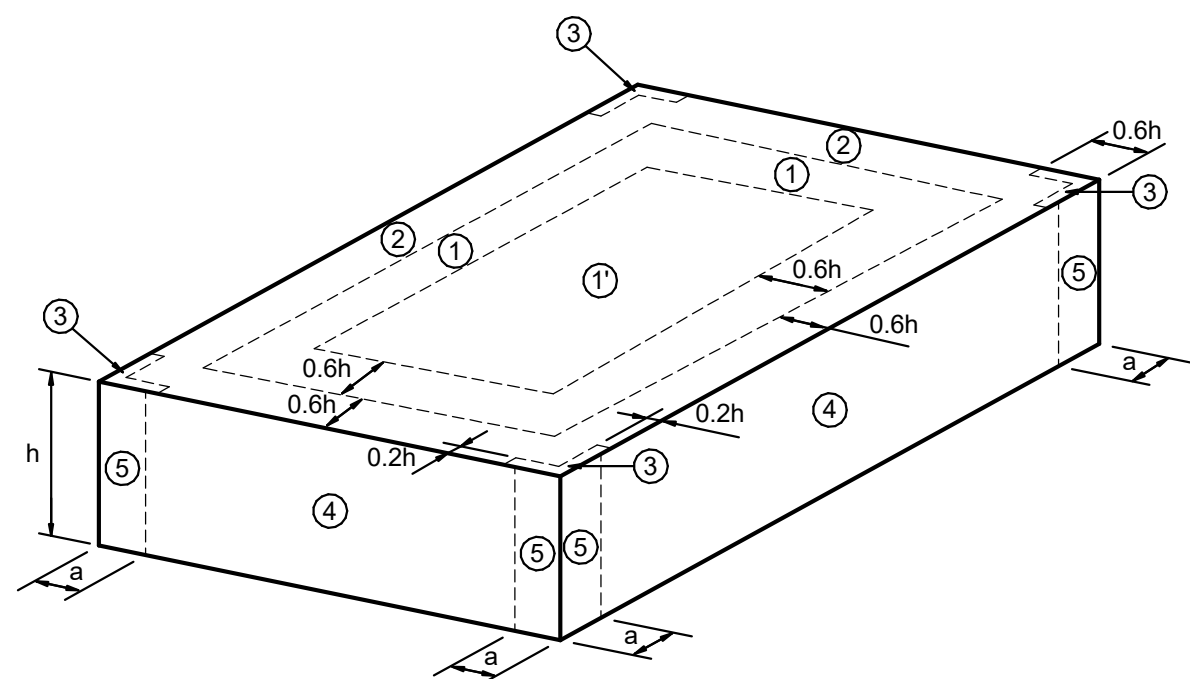
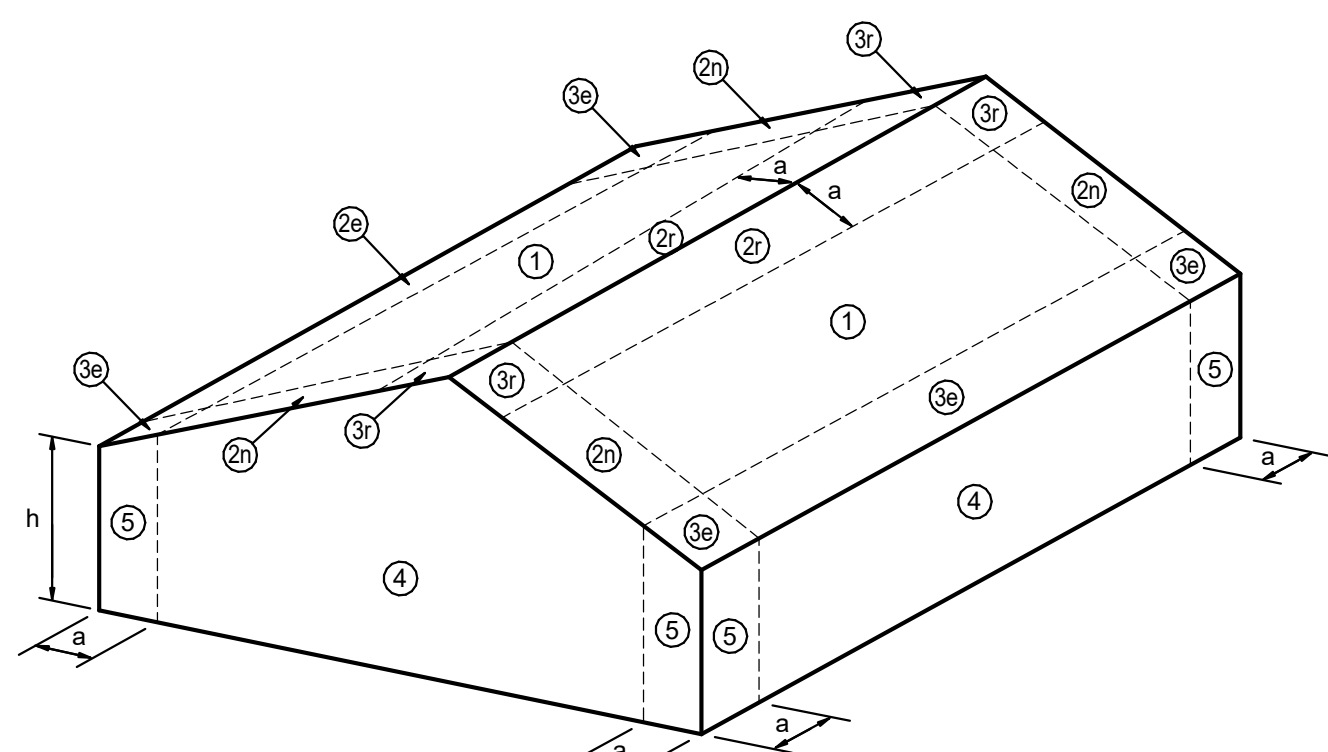
SITE CLASS:		D
SHORT-PERIOD DESIGN ACCELERATION (Sds):		0.127
ONE-SECOND DESIGN ACCELERATION (Sd1):		0.073
SHORT PERIOD MAPPED SPECTRAL RESPONSE (Ss):		0.119
ONE-SECOND MAPPED SPECTRAL RESPONSE (S1):		0.046
SEISMIC DESIGN CATEGORY:		E
IMPORTANCE FACTOR (Ie):		1.25

COMPONENTS AND CLADDING WIND LOADS HAVE BEEN DETERMINED PER ASCE 7-16, AS REFERENCED IN THE 2020 BUILDING CODE OF NEW YORK STATE (BCNYS) SECTION 1609.1 PER THE WIND DESIGN DATA LISTED BELOW:

ULTIMATE WIND SPEED (3-SECOND GUST) (Vult):	117 mph
NOMINAL WIND SPEED (3-SECOND GUST) (Vasd):	86 mph
DIRECTIONAL FACTOR (kd):	0.85
TOPOGRAPHIC FACTOR (Kzt):	1.0
GUST EFFECT FACTOR (G):	0.85
HEIGHT OF MAIN ROOF:	93 feet

SEE S101 FOR ADDITIONAL WIND LOAD DATA FOR ROOFS, OVERHANGS, CANOPIES, AND COMPONENTS AND CLADDING.

NET UPLIFT LOAD ON ROOF FRAMING COMPONENTS SHALL BE DETERMINED BY DEDUCTING 15 psf DEAD LOAD FROM THE TABULATED ROOF WIND LOADS FOR COMPONENTS AND CLADDING. NET UPLIFT VALUE SHALL BE A MINIMUM OF 10 psf.

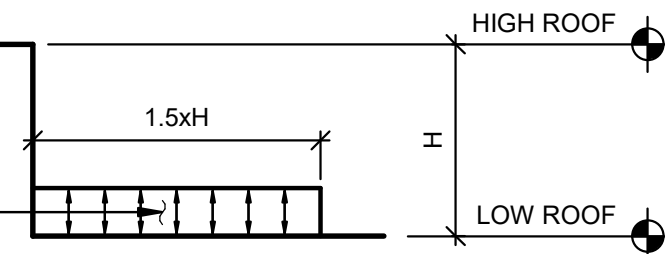
FLAT / HIP / GABLE/MANSARD ROOF ($\Theta \leq 7^\circ$; $h \leq 60'-0''$)

GABLE ROOF ($7^\circ < \theta \leq 45^\circ$)

S-101 NOTE:
a = 21' - 0"

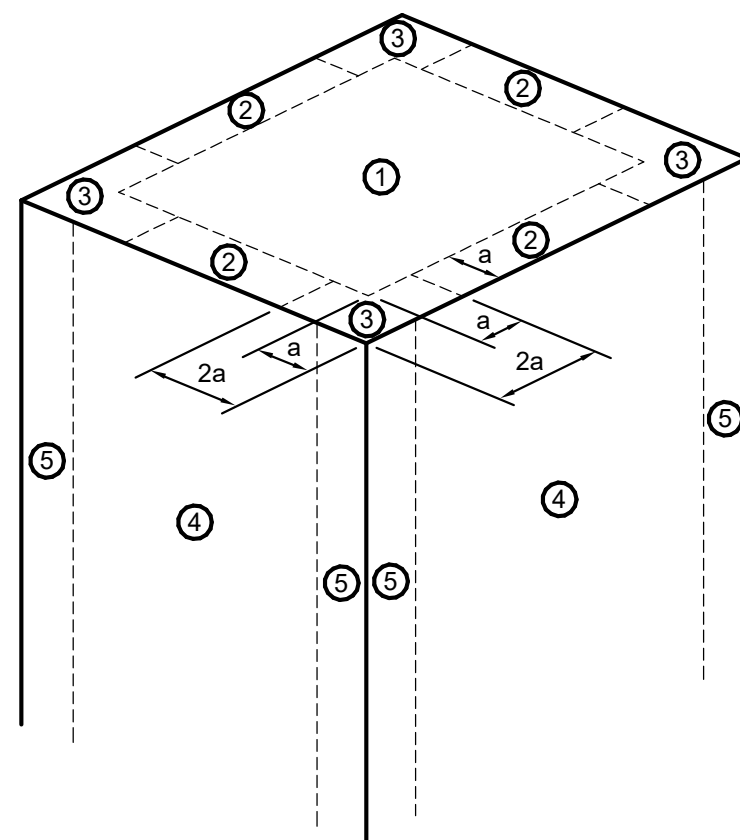
WITHIN THIS ZONE THE FOLLOWING
DESIGN PRESSURES SHALL APPLY:

1. FOR PRESSURE TOWARDS SURFACE USE SAME AS WALL PRESSURE ZONE 4 AND 5.
2. FOR PRESSURE AWAY FROM SURFACE USE SAME AS ROOF PRESSURES EXCEPT ZONE 2 SHALL BE TREATED AS ZONE 1, AND ZONE 3 SHALL BE TREATED AS ZONE 2.



S-101 NOT TO SCALE

ULTIMATE WIND PRESSURE FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS				
BASIC WIND: Vult=117 mph		H (ft)= 93		
EXPOSURE: C		K _z = 1		
ROOF TYPE	SURFACE	EFFECTIVE WIND AREA (sf)	WIND PRESSURE TOWARD SURFACE (psf)	WIND PRESSURE AWAY FROM SURFACE (psf)
0° to 7°	ZONE 1 ROOF	10	18.4	-59.0
		40	18.4	-52.7
		100	18.4	-46.6
		200	18.4	-45.4
		500	18.4	-41.3
	ZONE 1 ROOF OVERHANGS AT MIDDLE OF ROOF	10	NA	-59.0
		40	NA	-59.0
		100	NA	-59.0
		200	NA	-59.0
		500	NA	-59.0
	ZONE 2 ROOF EDGES	10	18.4	-92.2
		40	18.4	-82.4
		100	18.4	-75.9
		200	18.4	-71.0
		500	18.4	-64.6
	ZONE 2 ROOF OVERHANGS AT ROOF EDGES	10	NA	-92.2
		40	NA	-92.2
		100	NA	-92.2
		200	NA	-92.2
		500	NA	-92.2
	ZONE 3 ROOF CORNERS	10	18.4	-125.6
		40	18.4	-112.3
		100	18.4	-103.5
		200	18.4	-96.8
		500	18.4	-88.0
ZONE 3 ROOF OVERHANGS AT ROOF CORNERS	10	NA	-144.5	
	40	NA	-139.4	
	100	NA	-136.0	
	200	NA	-133.4	
	500	NA	-130.0	
ZONE 4 WALL	10	44.2	-47.9	
	40	39.5	-44.5	
	100	36.4	-42.3	
	200	34.0	-40.6	
	500	30.9	-38.3	
ZONE 5 WALL CORNERS	10	44.2	-73.6	
	40	39.5	-63.2	
	100	36.4	-56.3	
	200	34.0	-51.1	
	500	30.9	-44.2	



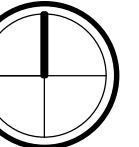
FLAT ROOF ($\Theta \leq 7^\circ$; $h \leq 60'-0"$)

ULTIMATE WIND PRESSURE FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS GABLE ROOFS				
BASIC WIND: 117 mph		H (ft)= 24		
EXPOSURE: C		K _z = 1		
ROOF TYPE	SURFACE	EFFECTIVE WIND AREA (sf)	WIND PRESSURE TOWARD SURFACE (psf)	WIND PRESSURE AWAY FROM SURFACE (psf)
>7° TO 20°	ZONE 1 ROOF MIDDLE	10	19.9	-60.7
		20	17.9	-60.7
		50	16.0	-36.9
	ZONE 1 ROOF OVERHANGS AT ROOF MIDDLE	10	NA	-18.9
		20	NA	-69.6
		50	NA	-60.2
	ZONE 2E LOWER ROOF EDGES	10	NA	-53.0
		20	19.9	-60.7
		50	17.9	-60.7
	ZONE 2E ROOF OVERHANGS AT LOWER ROOF EDGES	10	16.0	-36.9
		20	19.9	-18.9
		50	NA	-69.6
	ZONE 2N ROOF EAVE EDGES	10	NA	-69.6
		20	NA	-60.2
		50	NA	-53.0
	ZONE 2N ROOF OVERHANGS AT ROOF EAVE EDGES	10	19.9	-88.5
		20	17.9	-76.6
		50	16.0	-60.7
	ZONE 2R ROOF RIDGE	10	16.0	-48.7
		20	NA	-97.4
		50	NA	-84.8
	ZONE 2R ROOF OVERHANGS AT ROOF RIDGE	10	NA	-68.2
		20	NA	-55.7
		50	NA	-60.7
	ZONE 3E LOWER ROOF CORNERS	10	19.9	-88.5
		20	17.9	-76.6
		50	16.0	-60.7
	ZONE 3E ROOF OVERHANGS AT LOWER ROOF CORNERS	10	16.0	-48.7
		20	NA	-114.1
		50	NA	-98.5
ZONE 3R UPPER ROOF CORNERS	10	NA	-78.0	
	20	19.9	-62.4	
	50	17.9	-105.3	
ZONE 3R ROOF OVERHANGS AT UPPER ROOF CORNERS	10	16.0	-90.2	
	20	16.0	-70.3	
	50	16.0	-55.2	
ZONE 4 WALL	10	NA	-133.7	
	20	NA	-112.7	
	50	NA	-85.0	
ZONE 5 WALL CORNERS	10	NA	-64.0	
	20	32.8	-35.6	
	50	31.3	-34.1	
ZONE 5 WALL CORNERS	10	29.4	-32.2	
	20	27.9	-30.7	
	50	27.9	-44.0	
ZONE 5 WALL CORNERS	10	32.8	-41.1	
	20	31.3	-37.2	
	50	29.4	-34.1	

ABBREVIATIONS LEGEND			
ADDL - ADDITIONAL	EOD - EDGE OF DECK	PAF - POWER-ACTUATED FASTENER	
ADJ - ADJACENT	EOS - EDGE OF SLAB		
L - ANGLE	FD - FLOOR DRAIN	PE - PROFESSIONAL ENGINEER	
APPROX - APPROXIMATE	FDN - FOUNDATION		
ARCH - ARCHITECT / ARCHITECTURAL	FTG - FOOTING	PERP - PERPENDICULAR	
	GA - GAUGE		
B/ - BOTTOM OF	GALV - GALVANIZED	PLF - POUNDS PER LINEAL FOOT	
BLDG - BUILDING	HSS - HOLLOW STEEL SECTION	PSF - POUNDS PER SQUARE FOOT	
BRG - BEARING			
BP - BASE PLATE	HORIZ - HORIZONTAL	PSI - POUNDS PER SQUARE INCH	
CANT - CANTILEVER	HI - HIGH		
CJ - CONTROL, CONTRACTION, CONSTRUCTION JOINT	HP - HIGH POINT	PCF - POUNDS PER CUBIC FOOT	
	HVAC - HEATING/ VENTILATING/ AIR CONDITIONING	PC - PRECAST	
C - CENTERLINE	INFO - INFORMATION	PSL - PARALLEL STRAND LUMBER	
CMU - CONCRETE MASONRY UNIT(S)	INT - INTERIOR	PT - PRESSURE TREATED	
	INV - INVERT	R - RADIUS	
CONC - CONCRETE	K - KIPS	RD - ROOF DRAIN	
CONT - CONTINUOUS	LG - LONG	RDP - REGISTERED DESIGN PROFESSIONAL	
COL - COLUMN	LLH - LONG LEG		
CFMF - COLD-FORMED METAL FRAMING		REQD - REQUIRED	
	LLV - LONG LEG	REINF - REINFORCING OR REINFORCED	
COORD - COORDINATE	VERTICAL		
Ø - DIAMETER	LOC - LOCATION	REV - REVISION OR REVISED	
DIM - DIMENSION	LW - LIGHT WEIGHT	RO - ROUGH OPENING	
DN - DOWN	LVL - LAMINATED VENEER LUMBER	SIM - SIMILAR	
do - DITTO		SPA - SPACE	
DWG - DRAWING	LO - LOW	STD - STANDARD	
EA - EACH	MANUF - MANUFACTURER	SF - SQUARE FEET	
EF - EACH FACE	MAX - MAXIMUM	SS - STAINLESS STEEL	
EJ - EXPANSION JOINT	MECH - MECHANICAL	SQ - SQUARE	
ELEC - ELECTRICAL	MIN - MINIMUM	T/ - TOP OF	
EL - ELEVATION	MISC - MISCELLANEOUS	TIM - THERMAL ISOLATION MATERIAL	
ELEV - ELEVATOR	MO - MASONRY OPENING		
ENGR - ENGINEER	NA - NOT APPLICABLE	TYP - TYPICAL	
EMBD - EMBEDDED	NIC - NOT IN CONTRACT	UNO - UNLESS NOTED OTHERWISE	
EQ - EQUAL	NOM - NOMINAL		
EQUIP - EQUIPMENT	NW - NORMAL WEIGHT	VERT - VERTICAL	
ES - EACH SIDE	OC - ON CENTER	VIF - VERIFY IN FIELD	
EW - EACH WAY	OD - OUTSIDE DIAMETER	W/ - WITH	
EXIST - EXISTING	OPNG - OPENING	WP - WORK POINT	
EXP - EXPANSION	OPP - OPPOSITE	WWR - WELDED WIRE REINFORCEMENT	
EXT - EXTERIOR	PL - PLATE	WCJ - WALL CONTROL JOINT	



It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT
NORTH

CONSULTANT



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Skaneateles, NY 13152 p. 315.685.4732
www.ryanbiggs.com
CERTIFICATE OF AUTHORITY # 024002

PROJECT

1

Renovation for: CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 2

PROJECT NUMBER

319-24-032

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION
DRAWN KMR		CHECKED JLD
DATE 10/10/2025		SCALE AS NOTED

SHEET TITLE

SNOW DRIFT
LOADING PLAN -
Ph1

SHEET NUMBER

S-102

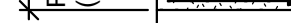
SHEET 5 OF 25

1 SNOW DRIFT PLAN
S-102 NOT TO SCALE

NOT TO SCALE

NOTES:

1.  - DENOTES DRIFTED SNOW LOADS IN ADDITION TO FLAT SNOW LOADS SHOWN.

2. 

ROOF 7
FLAT SL = 31 PSF
DL = 61 PSF

ROOF 8
FLAT SL = 31 PSF
DL = 61 PSF

GENERAL ROOF NOTES:

1.

MORE STRINGENT ARCHITECTURAL DETAILS SHALL GOVERN OVER MANUFACTURER'S DETAILS.
2.

REMOVE EXISTING ROOF SYSTEM, IN ITS ENTIRETY, DOWN TO THE DECK, INCLUDING ALL GRAVEL BALLAST, METAL FLASHINGS, ROOF GRAVEL STOPS & WALL FLASHINGS UNLESS NOTED OTHERWISE. DECK TYPE AS NOTED ON PLANS. (SEE ROOF TEST CUTS FOR EXISTING ROOF SYSTEM INFORMATION.)
- A.

GRAVEL MUST BE REMOVED USING HAND CARTS TO REDUCE NOISE AND DISTURBANCE IN THE BUILDING DURING CONSTRUCTION. VACUUM TRUCKS ARE NOT PERMITTED
3.

DIMENSIONS GIVEN ARE FOR REFERENCE ONLY. FIELD VERIFYING THE EXISTING BUILDING EXTENT AND MEASUREMENTS IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
4.

ALL ROOF PENETRATIONS ARE TO BE FLASHED, WHETHER SHOWN OR NOT; ITEMS ARE SHOWN IN THEIR GENERAL LOCATIONS.
5.

MINIMUM FINISHED FLASHING HEIGHTS, TOP OF MEMBRANE TO:
-TOP OF NON-METALLIC FLASHINGS - 8"
-TOP OF PLUMBING VENT - 18"
-OR AS SHOWN ON DRAWINGS
6.

CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND CONFIRM THAT DETAILS AS SHOWN WILL INTERFACE WITH THOSE CONDITIONS.
7.

WATER DAMAGE NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE BUILDING DRY DURING ROOFING OPERATIONS. ANY WATER OR DEBRIS ENTERING THE BUILDING CAUSED BY REROOFING WORK SHALL BE CLEANED UP BY THE CONTRACTOR. ANY DAMAGE TO THE BUILDING OR ITS CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. IF WORK AFFECTS THE INTERIOR OF THE BUILDING, PRECAUTIONS SHALL BE TAKEN TO PROTECT THE BUILDING AND ITS CONTENTS. FOR EXAMPLE: PROTECTION OF A GYM FLOOR.
8.

PROVIDE TRAFFIC / WALKWAY PADS AT ALL ROOF ACCESS POINTS, TOP & BOTTOM OF ALL LADDERS, AROUND ALL POWERED ROOFTOP EQUIPMENT, AT ACCESS POINTS TO LARGE HVAC ROOFTOP UNITS, AT MECHANICAL ROOM DOORS AND WHERE SHOWN.
9.

ABANDONED PENETRATIONS LESS THAN 12" IN EACH DIMENSION IN METAL ROOF DECKS TO BE COVERED W/ 20 GA. GALV. STEEL SHEET METAL MIN. 4" LARGER THAN OPENING IN ALL DIRECTIONS - FASTEN W/ #14 TEK SCREWS @ 6" O.C. MAX. AROUND PERIMETER OF NEW SHEET METAL. SEE "TYPICAL DECK PATCH DETAIL" FOR LARGER ABANDONED PENETRATIONS.
10.

AT ALL ROOFTOP EQUIPMENT NEW & EXISTING (A/C UNITS, RTUS, ETC.) THE WIRES, PIPES AND / OR CONDUIT SHALL BE INSTALLED IN A PRE-FABRICATED PIPE / CONDUIT CURB AS DETAILED / SPECIFIED, WHETHER SHOWN OR NOT. PITCH POCKETS ARE NOT ACCEPTABLE, UNLESS SHOWN OTHERWISE. REFER TO NOTE 11, E.
11.

MECHANICAL

A.

REMOVE AND REINSTALL EXISTING MECHANICAL EQUIPMENT AS REQUIRED FOR INSTALLATION OF NEW ROOF SYSTEM & TO ACHIEVE SPECIFIED CLEARANCES, ie; RAISE AND / OR FLASH PER DETAILS, IF REQUIRED.

B.

DISCONNECT ANY POWER OR PNEUMATIC CONNECTIONS, RECONNECT THE SAME USING ADDITIONAL MATERIAL AS NECESSARY TO REINSTALL, PRIOR TO ROOF REPLACEMENT WORK. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL UNITS W/ CONTRACTOR AND IDENTIFY ANY NON-OPERATING UNITS.

- C.

COORDINATE ALL TEMPORARY ELECTRIC, GAS OR MECHANICAL UNIT ETC. SHUTDOWNS WITH THE UNIVERSITY'S DESIGNATED REPRESENTATIVE.
- D.

PAINT NON-ALUMINUM/COPPER UNITS AND STEEL SUPPORT STRUCTURES, PAINT WITH PRIME AND 2 FINISH COATS OF ENAMEL PAINT. IDENTIFY UNITS (STENCIL) PER THE UNIVERSITY'S IDENTIFICATION SCHEDULE.
- E.

REPLACE ANY EXTERIOR GAS, REFRIGERANT CONDUIT, CONTROL WIRING, ETC. AS REQUIRED TO ELIMINATE PITCH POCKETS. SERVICES TO BE INSTALLED IN PRE-FABRICATED PIPE/CONDUIT CURBS AS DETAILED / SPECIFIED.
12.

ELECTRICAL

A.

REMOVE AND REPLACE EXISTING LIGHTNING PROTECTION SYSTEM, SEE DETAIL 6/A-509 AND E-SERIES DRAWINGS.

B.

MOUNT LIGHTNING PROTECTION CONDUCTORS TO BACK OF PARAPET AND OFF ROOF MEMBRANE. PER DETAIL 5/A-506 - CONTRACTORS TO COORDINATE INSTALLATION.

C.

DISCONNECT ANY POWER CONNECTIONS, RECONNECT THE SAME USING ADDITIONAL MATERIAL AS NECESSARY TO REINSTALL, PRIOR TO ROOF REPLACEMENT WORK.
13.

INSULATION

A.

PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOFTOP EQUIPMENT LARGER THAN 2'-0" WIDE OR AT ANY DOWNHILL WALL PROJECTION WHICH MAY POCKET WATER.

B.

FILL GAPS BETWEEN CUT INSULATION AND CURBS/WALLS/EDGE BLOCKING GREATER THAN 1/4" WITH SPRAY FOAM INSULATION.
14.

ROOF DRAINS

A.

UNLESS NOTED ALL ROOF DRAINS TO REMAIN. CLEAN ALL DRAIN BOWLS. THE STRAINERS AND CLAMPING RINGS ARE TO BE REPLACED PER SPEC 01 12 00.

B.

AT COMPLETION OF ROOFING OPERATIONS CLEAN ALL ROOF DRAINS FROM ROOF TO FIRST ELBOW.

C.

CONTRACTOR SHALL AT THEIR OWN COST BE RESPONSIBLE FOR TESTING ROOF DRAINS AT THEIR EXPENSE FOR LEAKS AND FLOW UPON COMPLETION OF CONSTRUCTION. LEAK TEST: PLUG EACH ROOF DRAIN BELOW CONNECTION TO THE ROOF DRAIN LEADER. OBSERVE THE FLOW OF EACH LINE. PROVIDE A WRITTEN REPORT OF THE RESULTS TO THE ONSITE REPRESENTATIVE OR ARCHITECT.
15.

WOOD

A.

ALL WOOD OR PLYWOOD INSTALLED IN DIRECT CONTACT WITH MASONRY OR CONCRETE, IS TO BE OF PRESSURE TREATED MATERIALS. ALL OTHER LUMBER TO BE NON-TREATED UNLESS NOTED OTHERWISE.

B.

ALL BLOCKING TO BE SOLID - NO VOIDS OR 'SKIP-FRAMING' ARE PERMITTED. IF WOOD DIMENSIONS ARE NOT GIVEN, STACKED WOOD HEIGHT (3 BOARDS OR LESS) SHALL BE 2x6 MINIMUM.

C.

ALL WOOD TO BE ANCHORED AS SPECIFIED, OR SHOWN. GENERALLY, FASTENER SPACING, NAILS OR SCREWS, NOT MORE THAN 12" O.C. AND ANCHOR BOLTS -3/8" O.D. MIN., NOT MORE THAN 36" O.C. AND FROM ENDS OF BOARDS - 9" MAXIMUM. SEE "TYPICAL BLOCKING FASTENING DETAIL" 7/A-506 FOR ADDITIONAL INFORMATION.
- D.

BLOCKING CONSIDERED FOR REUSE SHALL BE CHECKED FOR ADEQUATE ANCHORAGE VIA PULL TEST AT CONTRACTOR'S EXPENSE. PROVIDE ADDITIONAL FASTENERS, IF REQUIRED TO ASSURE SOLID ANCHORING. INSTALL ADDITIONAL BLOCKING OVER THE EXISTING AS REQUIRED TO BRING HEIGHT INTO THE SAME PLANE WITH INSULATION HEIGHT. REFER TO NOTE 5 IN DESIGN WIND UPLIFT NOTES ON 6-101 FOR PERFORMANCE REQUIREMENTS.

16.

FASTENERS

A.

ALL FASTENERS TO BE NON-RUSTING TYPE (HOT DIPPED GALVANIZED, STAINLESS STEEL, CADMIUM PLATED) UNLESS NOTED OTHERWISE.

B.

ALL NAILS SHALL BE SPIRAL OR RING-SHANKED

C.

ALL FASTENERS (NAILS, SCREWS, BOLTS, ETC.) FASTENING OR PENETRATING PRESSURE-TREATED WOOD ARE TO BE OF AUSTENITIC STAINLESS STEEL, TYPE A304 OR A316

D.

FASTENERS IN METAL FLASHINGS - ALL TO BE COMPATIBLE WITH METAL USED; FASTENERS ALL OF STAINLESS-STEEL UNLESS NOTED OTHERWISE. FASTENER SPACING, SCREWS, NOT MORE THAN 9" O.C., NAILS USED FOR CLEATING - 3" O.C. UNLESS NOTED OTHERWISE FROM ENDS OF UNITS - 3" MAXIMUM.

E.

POP-RIVETS IN METAL FLASHINGS/COPINGS ARE NOT PERMITTED.

17.

MISCELLANEOUS:

A.

ANY METAL COPING OR FASCIA OVERLAPS, FOLDS, OR SEAMS ARE TO BE SOLIDLY BEDDED WITH SEALANT BETWEEN PIECES OF METAL.

B.

ALL FLASHINGS, COPINGS OR ROOF EDGES ETC. SHALL HAVE MANUFACTURERS PREFABRICATED CORNERS. NO CAULKED OR RIVITED CORNERS WILL BE ALLOWED.

C.

THE INTENT IS FOR METAL FLASHING HEIGHTS TO ALIGN, UNLESS NOTED OTHERWISE.

D.

PROVIDE MEMBRANE SLIP SHEETS UNDER ALL BALLASTED GUARDRAIL SYSTEM POINTS OF CONTACT AND WALKWAY PADS (NOT MANUFACTURED/PROVIDED BY THE MEMBRANE MANUFACTURER)

E.

TURN OVER TO UNIVERSITY AT COMPLETION OF PROJECT 2 GALLONS OF TOUCH UP PAINT FOR ROOF GUARD RAILS AND MATCHING TRIM/FASCIA METAL

F.

CONTRACTOR SHALL INCLUDE 1000 SF OF APPLIED FIRE PROTECTION, PER SPECIFICATION 07B100 TO REPAIR ANY AREAS DISTURBED BY THE WORK OF THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AREAS DISTURBED WITH PROVIDED FIRE PROTECTION
- TYPICAL ABBREVIATIONS:
- | | |
|---------------|--|
| A.G. | ABOVE GRADE |
| ALUM. | ALUMINUM |
| ASPH. | ASPHALT |
| BLKG. | BLOCKING |
| CJ | CONTROL JOINT |
| CONC. | CONCRETE |
| CONST. | CONSTRUCTION |
| CONT. | CONTINUOUS |
| DIA. | DIAMETER |
| DIM. | DIMENSION |
| DIMS. | DIMENSIONS |
| DET. | DETAIL |
| DWG. | DRAWING |
| EA. | EACH |
| EF | EXHAUST FAN |
| EJ | EXPANSION JOINT |
| ELEC. | ELECTRICAL |
| EPDM | ETHYLENE PROPYLENE DIENE MONOMER |
| EX. OR EXIST. | EXISTING |
| EXJT. | EXPANSION JOINT |
| FIN. | FINISH |
| FLR. | FLOOR |
| GA. | GAUGE |
| GALV. | GALVANIZED |
| GYP. | GYPSUM |
| GV. | GRAVITY VENT |
| HP | HIGH POINT |
| HV | HOT VENT |
| HVAC | HEATING, VENTILATION, AND AIR CONDITIONING |
| INC. | INCLUDING |
| INSUL. | INSULATION |
| KEE | KEYTONE ETHYLENE ESTER |
| LP | LIGHTNING PENETRATION |
| MANUF. | MANUFACTURER |
| MAX. | MAXIMUM |
| MECH. | MECHANICAL |
| MEMB. | MEMBRANE |
| MIN | MINIMUM |
| MPH | MILES PER HOUR |
| MTL. | METAL |
| N.I.C. | NOT IN CONTRACT |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| PLUMB. | PLUMBING |
| PLYD. | PLYWOOD |
| PNT. | PAINT OR PAINTED |
| PP | PIPE PENETRATION |
| PRE | POWER ROOF EXHAUST |
| P.S.F. | POUNDS PER SQUARE FOOT |
| P.S.I. | POUNDS PER SQUARE INCH |
| PT | PRESSURE TREATED |
| PVC | POLYVINYL CHLORIDE |
| RC | ROOF CUT |
| RD | ROOF DRAIN |
| RH | ROOF HATCH |
| REINF. | REINFORCED |
| RTU | ROOFTOP UNIT |
| SF | SQUARE FOOT |
| SH | SMOKE HATCH |
| SIM. | SIMILAR |
| S.S. | STAINLESS-STEEL |
| STL. | STEEL |
| STRUCT. | STRUCTURE OR STRUCTURAL |
| TYP. | TYPICAL |
| V | PLUMBING VENT |
| V.I.F. | VERIFY IN FIELD |
| V.R. | VAPOR RETARDER |
-
- 215 Wyoming Street Suite 201
Syracuse, NY 13204
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1163 Pittsford/Victor Rd Suite 200
Pittsford, NY 14534
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-
- PROJECT
NORTH
-
- CONSULTANT
- CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1
930 CAMPUS ROAD
ITHACA, NY 14853
CLIENT PROJECT NO.: SUCF 191026
- PROJECT NUMBER
319-24-032
- The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.
- All drawings and specifications are the property of the Architect and shall be used only on the job designated.
- | MARK | DATE | DESCRIPTION |
|-------|------------|-------------------|
| | | --- |
| | | |
| | | |
| | | |
| | | |
| DRAWN | ZEH | CHECKED
DKA |
| DATE | 10/10/2025 | SCALE
AS NOTED |
- SHEET TITLE
- GENERAL ROOFING
NOTES AND
ABBREVIATIONS
- SHEET NUMBER
A-101
- SHEET 6 OF 25
- 10/17/2025 12:20:19 PMZACH HOOKER

- RC-#01
 - GRAVEL BALLAST
 - FILTER
 - 0.60 EPDM
 - 1" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - ¾" UNDERLAYMENT BOARD
 - 3" METAL DECK
- RC-#31 - RC-#32
 - GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 2" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - ¾" UNDERLAYMENT BOARD
 - 3" METAL DECK

RC-#31 - RC-#32

- GRAVEL BALLAST
- FABRIC FILTER
- 0.60 EPDM
- 2" POLYISOCYANURATE INSULATION
- ASPHALTIC VAPOR RETARDER
- 5/8" UNDERLAYMENT BOARD
- 3" METAL DECK

- RC-#02
- GRAVEL BALLAST
 - FILTER
 - 0.60 EPDM
 - 2-1/2" POLYISOCYANURATE INSULATION TAPERED
 - 1" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 3/8" UNDERLAYMENT BOARD
 - 3" METAL DECK

- RC-#03 - RC-#04
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 3" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 5/8" UNDERLAYMENT BOARD
 - 3" METAL DECK

- RC-#05
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 3" POLYISOCYANURATE INSULATION
 - 2 PLY ASPHALTIC VAPOR RETARDER
 - CONCRETE DECK

- GRAVEL BALLAST
- FABRIC FILTER
- 0.60 EPDM
- 2" POLYISOCYANURATE INSULATION
- 3" POLYISOCYANURATE INSULATION
- 2 PLY ASPHALTIC VAPOR RETARDER
- 5/8" UNDERLAYMENT BOARD
- 3" METAL DECK

- RC-#07
- GRAVEL BALLAST
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 - 0.60 EPDM
 - 3" POLYISOCYANURATE INSULATION
 - 2 PLY ASPHALTIC VAPOR RETARDER
 - CONCRETE DECK

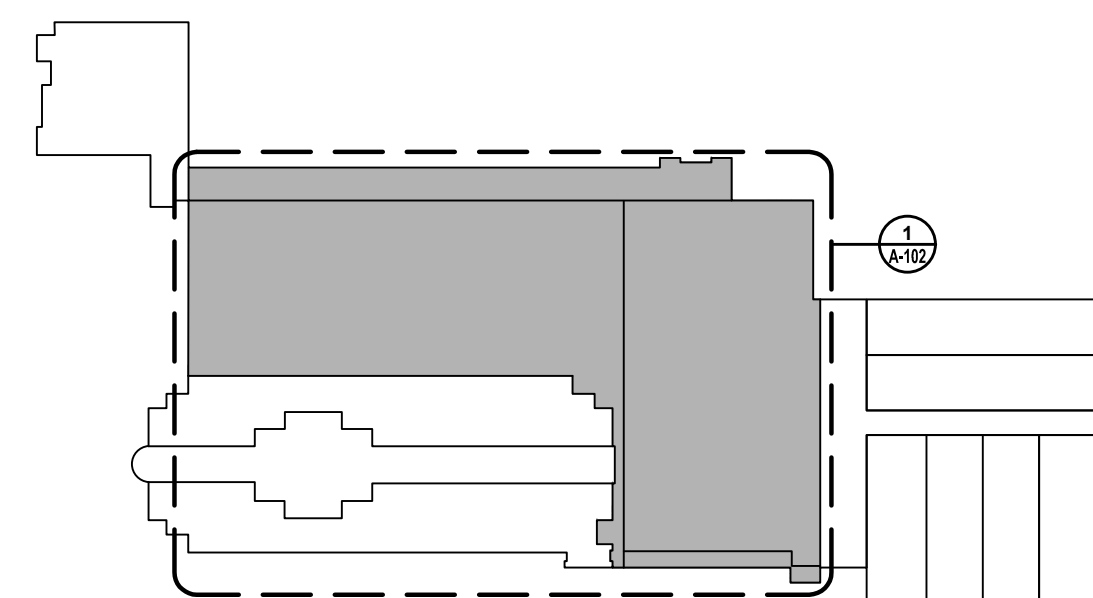
- RC-#08
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 1" POLYISOCYANURATE INSULATION
 - 2 PLY ASPHALTIC VAPOR RETARDER
 - CONCRETE DECK

- RC-#09 - RC-#10
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 2" POLYISOCYANURATE INSULATION
 - 3" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 5/8" UNDERLAYMENT BOARD
 - 3" METAL DECK

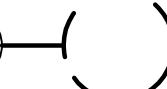
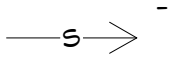
- RC-#11
- 
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 2" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 5/8" UNDERLAYMENT BOARD
 - 3" METAL DECK

- RC-#12
- 
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 1-1/4" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 5/8" UNDERLAYMENT BOARD
 - 3" METAL DECK

- RC-#13
- 
- GRAVEL BALLAST
 - FABRIC FILTER
 - 0.60 EPDM
 - 3" POLYISOCYANURATE INSULATION
 - ASPHALTIC VAPOR RETARDER
 - 3/8" UNDERLAYMENT BOARD
 - 3" METAL DECK



ROOF GRAPHIC SYMBOLS LEGEND

	- ROOF CUT LOCATION
	- DETAIL TAG
	- SLOPE TO DRAIN PROVIDED BY SLOPED STRUCTURAL DECK
	- DETAIL TAG
	- BUILDING NUMBER AND ROOF PANEL NUMBER

1 1164 DEMO PLAN
SCALE: 1/16" = 1'-0"

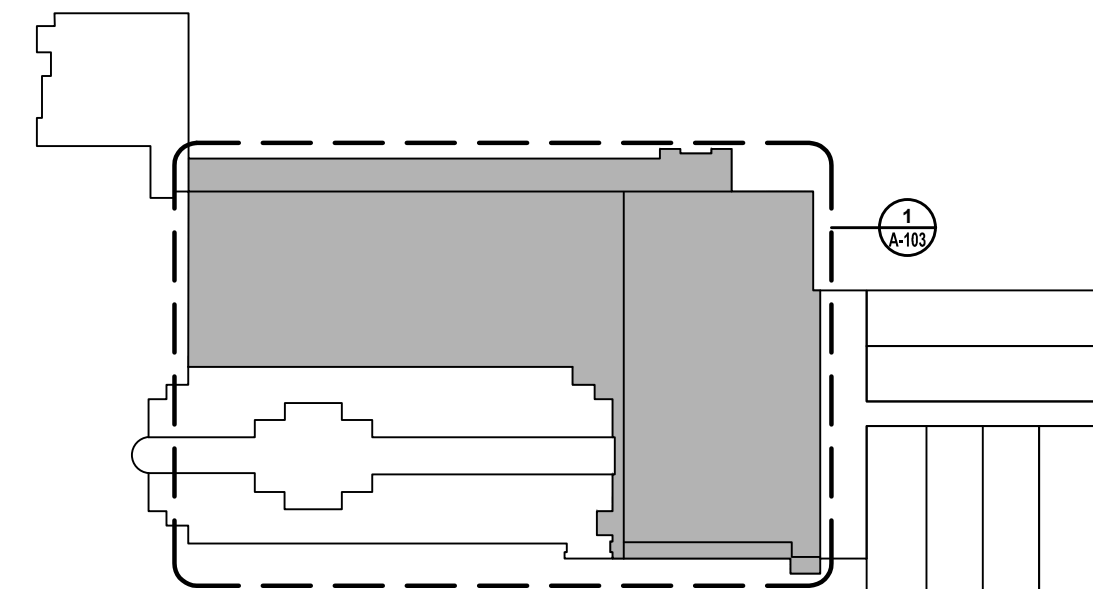
ROOF AREAS (1164: 001, 007,

- ROOF AREAS (1164: 001B, 008)

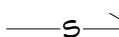
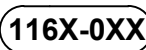
- 80 MIL. KEE PVC MEMBRANE (FULLY ADHERED)
- 1/2" COVERBOARD (SET IN LOW RISE INSULATION ADHESIVE)
- TAPERED POLYISOCYANURATE INSULATION (5% PER FOOT SLOPE), MINIMUM THICKNESS OF 5 1/2" AT DRAIN SUMP EDGE (SET IN LOW RISE INSULATION ADHESIVE)
- SBS VAPOR RETARDER
- 1/2" UNDERLAYMENT BOARD (MECHANICALLY ATTACHED AND PRIMED)
- EXISTING FLAT METAL ROOF DECK

ROOF AREAS (1164: 001, 001B, 007, 008)

- TOTAL R VALUE



ROOF GRAPHIC SYMBOLS LEGEND

	RG-#	- ROOF CUT LOCATION
		- DETAIL TAG
	S	- SLOPE TO DRAIN PROVIDED BY SLOPED STRUCTURAL DECK
		- DETAIL TAG
		- WALKWAY PAD (TYPE 1)
		- WALKWAY PAD (TYPE 2)
		- BUILDING NUMBER AND ROOF PANEL NUMBER

1 1164 ROOF PLAN
SCALE: 1/16" = 1'-0"



It is a violation of the New York State Education Law, Article 145 Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT NORTH

CONSULTANT

PROJECT

CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1
930 CAMPUS ROAD
ITHACA, NY 14853
CLIENT PROJECT NO: SUFC 191026

PROJECT NUMBER
319-24-032

The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

MARK	DATE	DESCRIPTION

DRAWN ZEH		CHECKED DKA
DATE 10/10/2025		SCALE AS NOTED

SHEET TITLE

ROOF PLAN

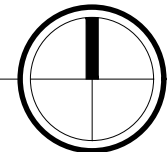
SHEET NUMBER

SHEET 8 OF 25



It is a violation of the New York State Education Law, Article 145, Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by," followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT
NORTH



CONSULTANT

PROJECT

CORNELL UNIVERSITY
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DRAWN ZEH	CHECKED DKA	
DATE 10/10/2025	SCALE AS NOTED	

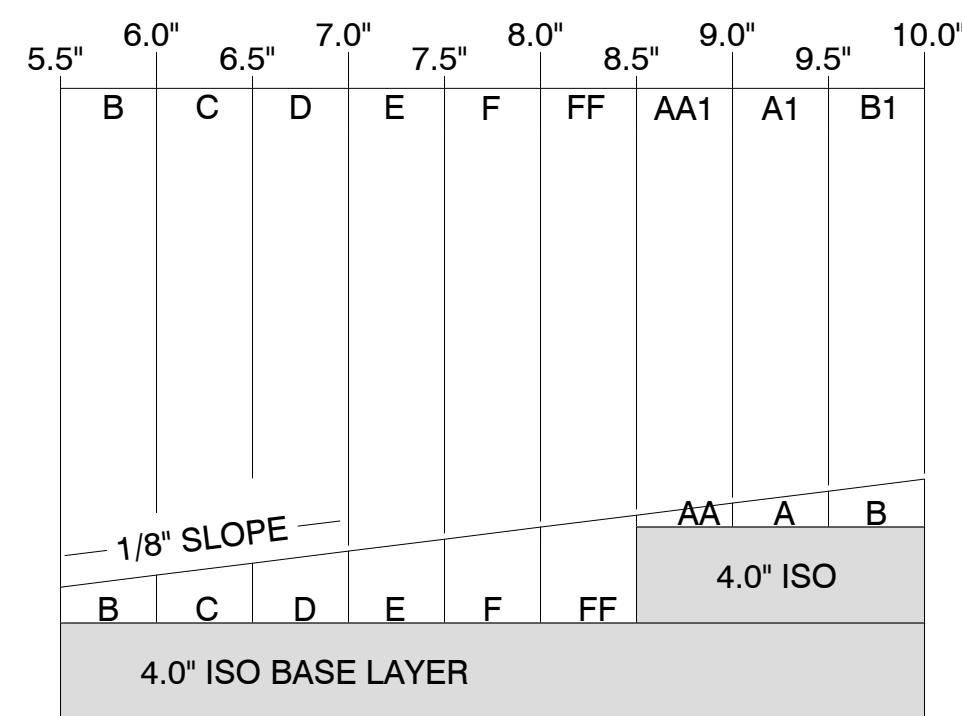
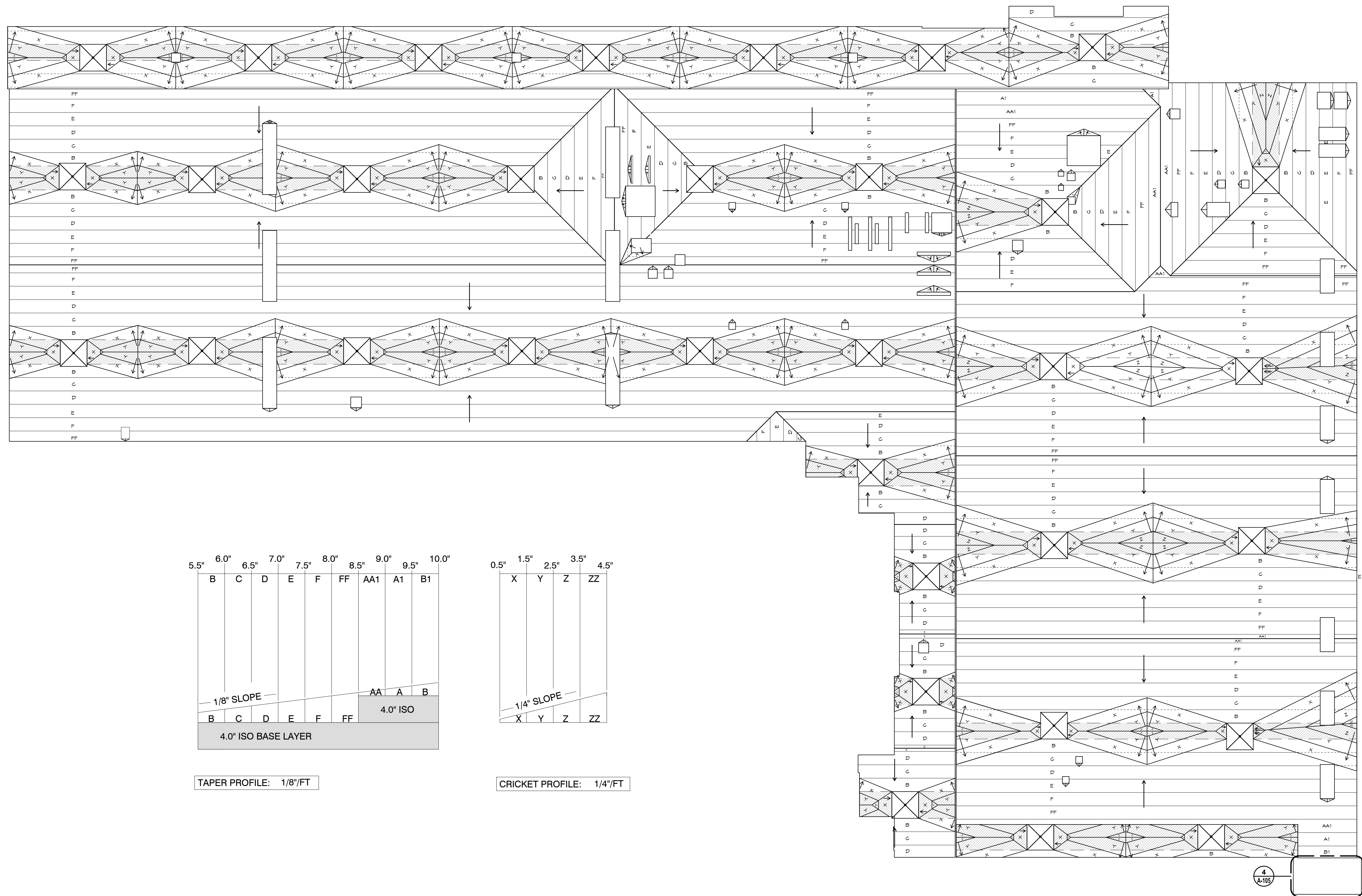
SHEET TITLE

**ROOF TAPERED
PLAN**

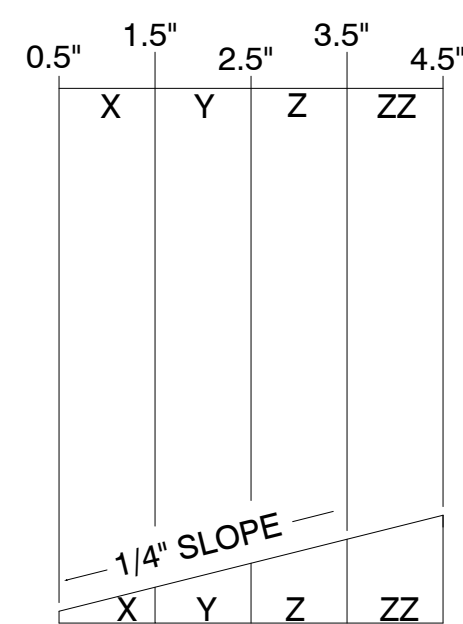
SHEET NUMBER

A-104

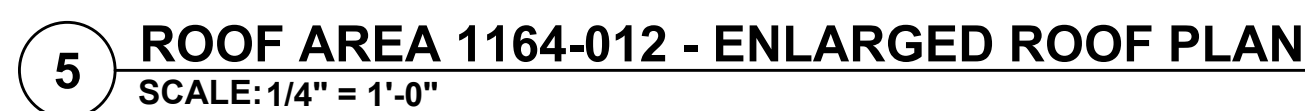
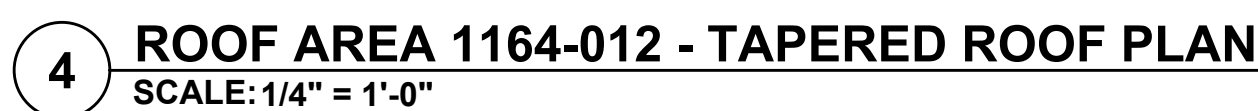
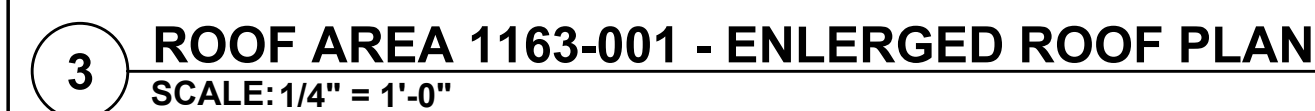
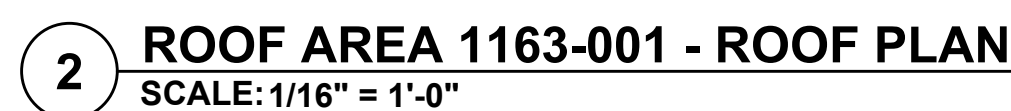
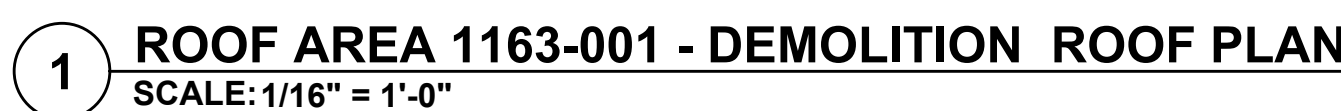
SHEET 9 OF 25



TAPER PROFILE: 1/8"/FT



CRICKET PROFILE: 1/4"/FT



RC-#28 - RC-#30

- GRAVEL BALLAST
- FABRIC FILTER
- 0.60 EPDM
- 2-½" POLYISOCYANURATE INSULATION
- 2 PLY ASPHALTIC VAPOR RETARDER
- CONCRETE DECK

ROOF AREAS (1163: 001)

- 80 MIL. KEE PVC MEMBRANE (FULLY ADHERED)
- 1/2" COVERBOARD (SET IN LOW RISE INSULATION ADHESIVE)
- 2 LAYERS OF 3.3" POLYISOCYANURATE INSULATION (SET IN LOW RISE INSULATION ADHESIVE)
- RUBBERIZED ASPHALT VAPOR RETARDER (TORCH APPLIED)
- EXISTING STRUCTURALLY SLOPED CONCRETE ROOF DECK (PRIMED)

- 80 MIL. KEE PVC MEMBRANE (FULLY ADHERED)
- 1/2" COVERBOARD (SET IN LOW RISE INSULATION ADHESIVE)
- TAPERED POLYISOCYANURATE INSULATION (1/2" PER FOOT SLOPE), MINIMUM THICKNESS OF 5/2" AT DRAIN SUMP EDGE (SET IN LOW RISE INSULATION ADHESIVE)
- SBS VAPOR RETARDER (TORCH APPLIED)
- 1/2" UNDERLAYMENT BOARD (MECHANICALLY ATTACHED AND PRIMED)
- EXISTING FLAT METAL ROOF DECK

<u>ROOF AREAS (1169.001)</u>	
- OUTSIDE AIR	0.17
- 1/2" FVC MEMBRANE	0.34
- 1/2" COVERBOARD	0.36
- 4 LAYERS OF 3.2" POLYISOCYANURATE INSULATION	39.56
- RUBBERIZED ASPHALT VAPOR RETARDER	0.12
- CONCRETE DECK	0.80
- INSIDE AIR	0.92
TOTAL R VALUE	35.41

- OUTSIDE AIR	0.11
- KEE PVC MEMBRANE	0.34
- 1/2" COVERBOARD	0.86
- TAPERED INSULATION, MINIMUM THICKNESS 5 1/2" AT DRAIN SUMP EDGE	27.56
- RUBBERIZED ASPHALT VAPOR RETARDER	0.12
- 1/2" UNDERLAYMENT BOARD	0.56
- METAL DECK	0.00
- INSIDE AIR	0.42
TOTAL R VALUE	30.17

RC-# - ROOF CUT LOCATION

 - **DETAIL TAG**

 - **SLOPE TO DRAIN PROVIDED BY SLOPED STRUCTURAL DECK**

 - **DETAIL TAG**

 - **BUILDING NUMBER AND ROOF PANEL NUMBER**

 - **SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION**

 - **SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION**



CONSULTANT

**CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1**

PROJECT NUMBER
319-24-032

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MARK	DATE	DESCRIPTION
		

DRAWN ZEH	CHECKED DKA
DATE 10/10/2025	SCALE AS NOTED

SHEET TITLE

ROOF PLANS

SHEET NUMBER

SHEET 10 OF 25



P1 - ROOF AREA 1163-001



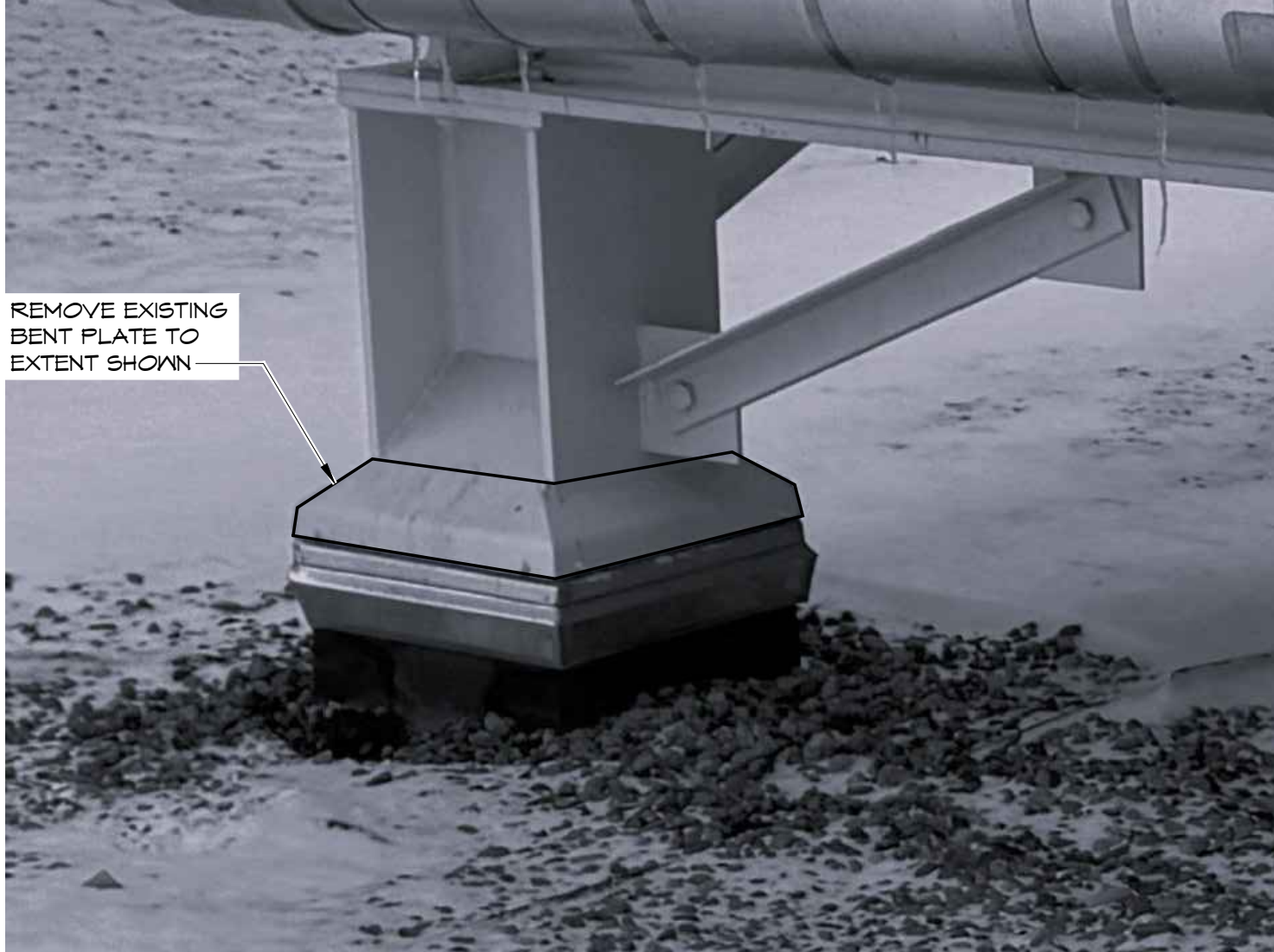
P2 - ROOF AREA 1163-001



P3 - ROOF AREA 1163-001



P4 - ROOF AREA 1164-001



P5 - ROOF AREA 1164-001



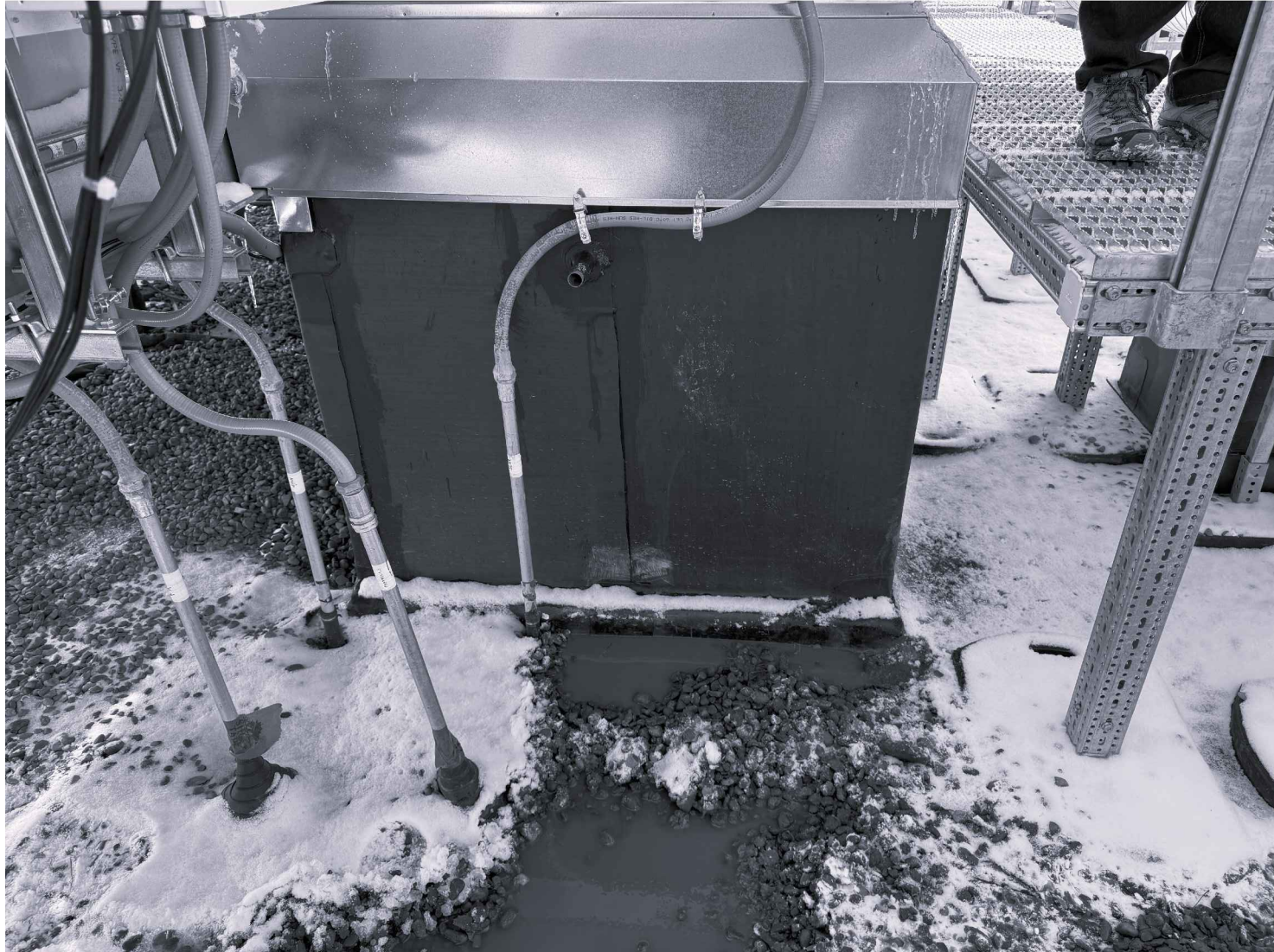
P6 - ROOF AREA 1164-001



P7 - ROOF AREA 1164-007



P8 - ROOF AREA 1164-007



P9 - ROOF AREA 1164-007



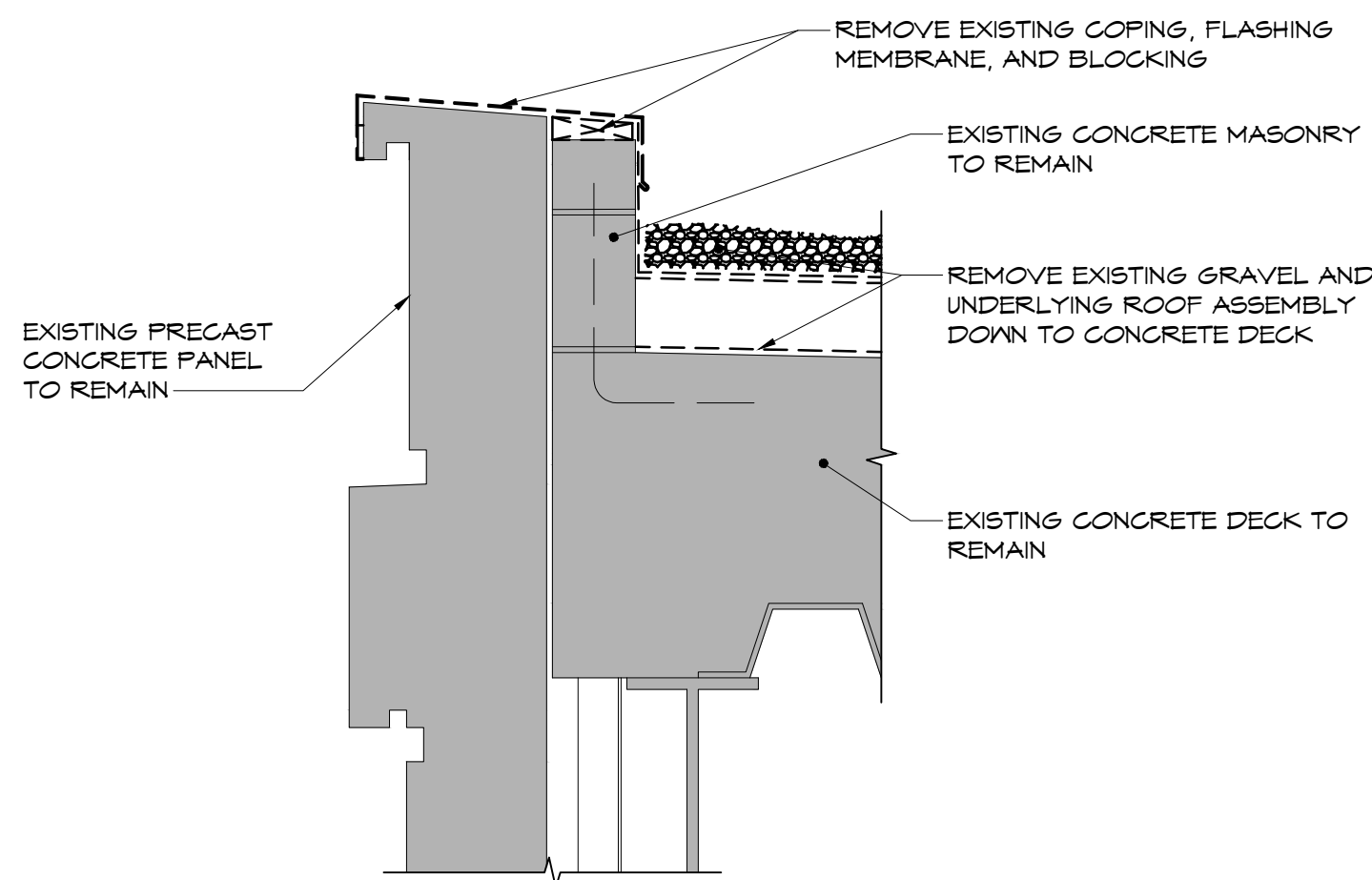
P10 - ROOF AREA 1164-001



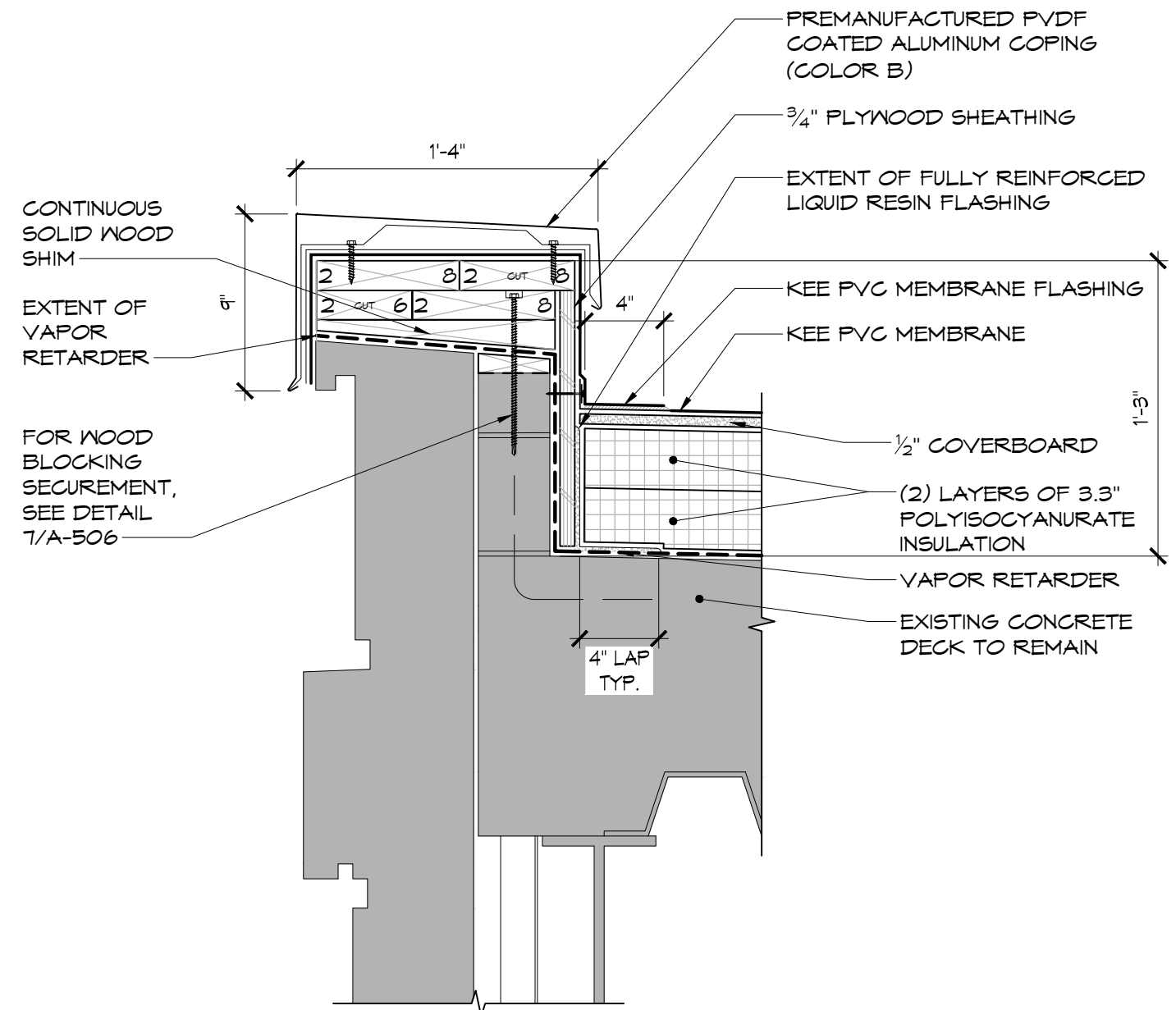
P11 - ROOF AREA 1164-001



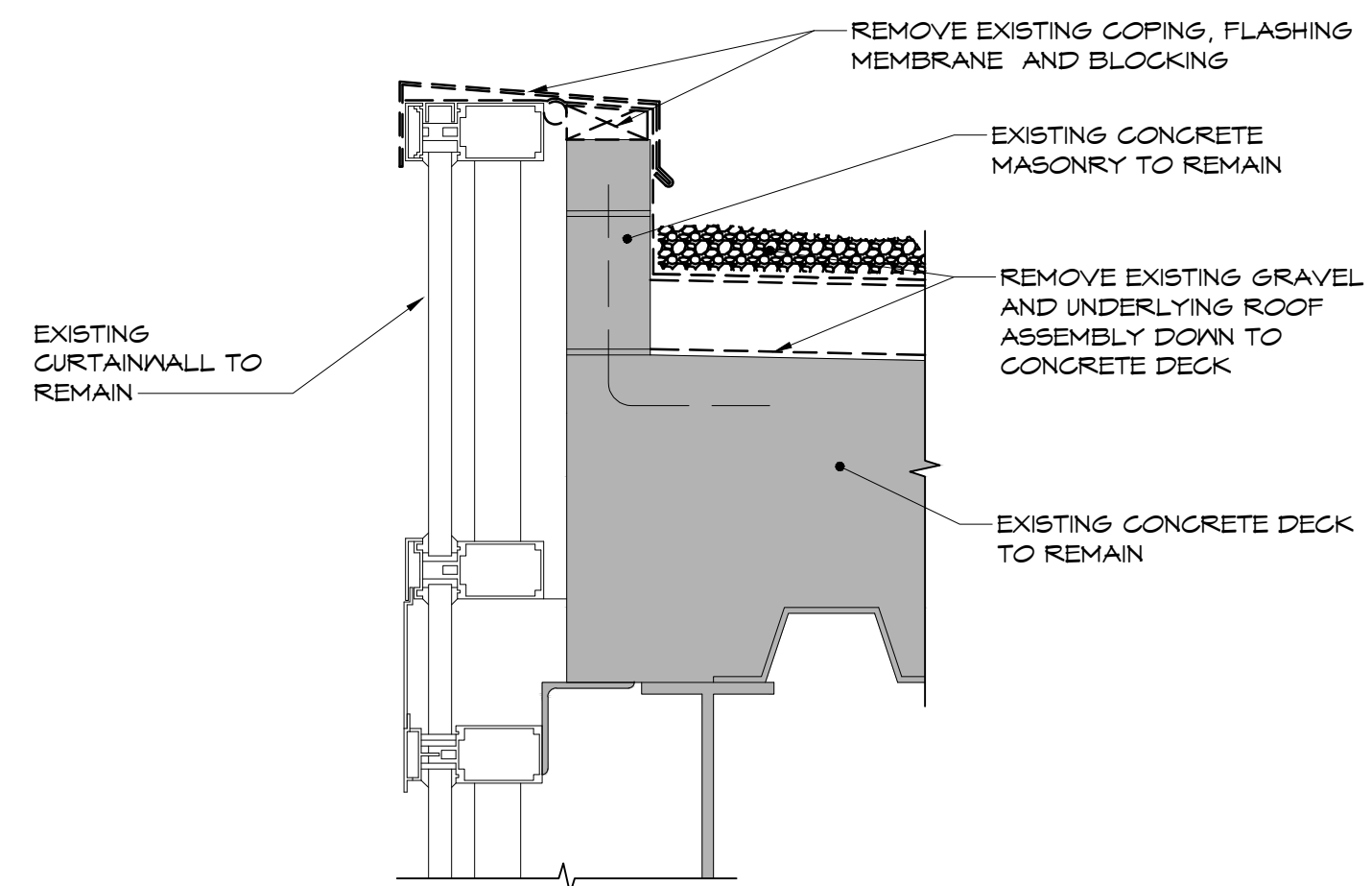
P12 - ROOF AREA 1164-001



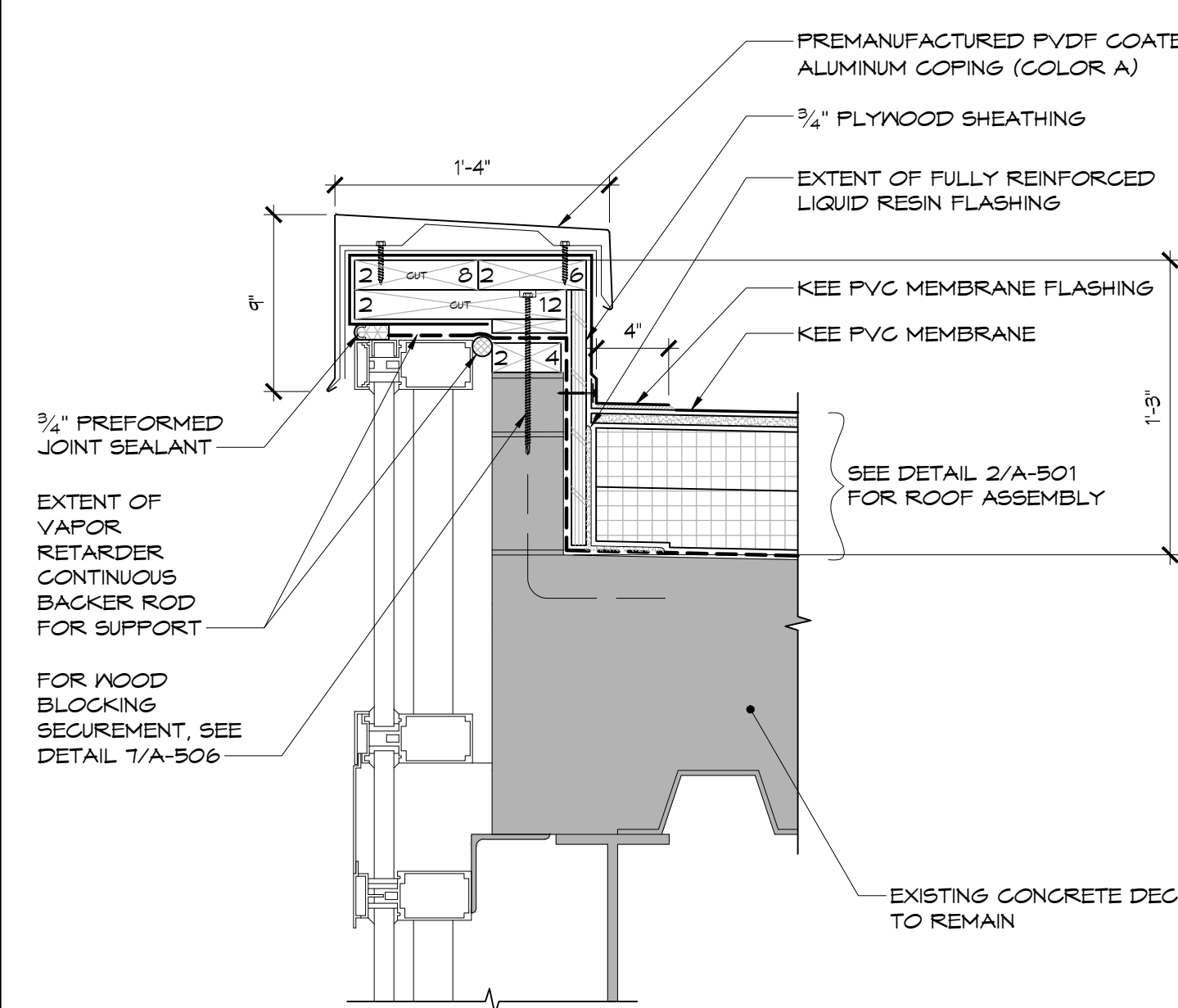
1 ROOF AREA 1163-001 - PARAPET REMOVAL
SCALE: 1 1/2" = 1'-0"



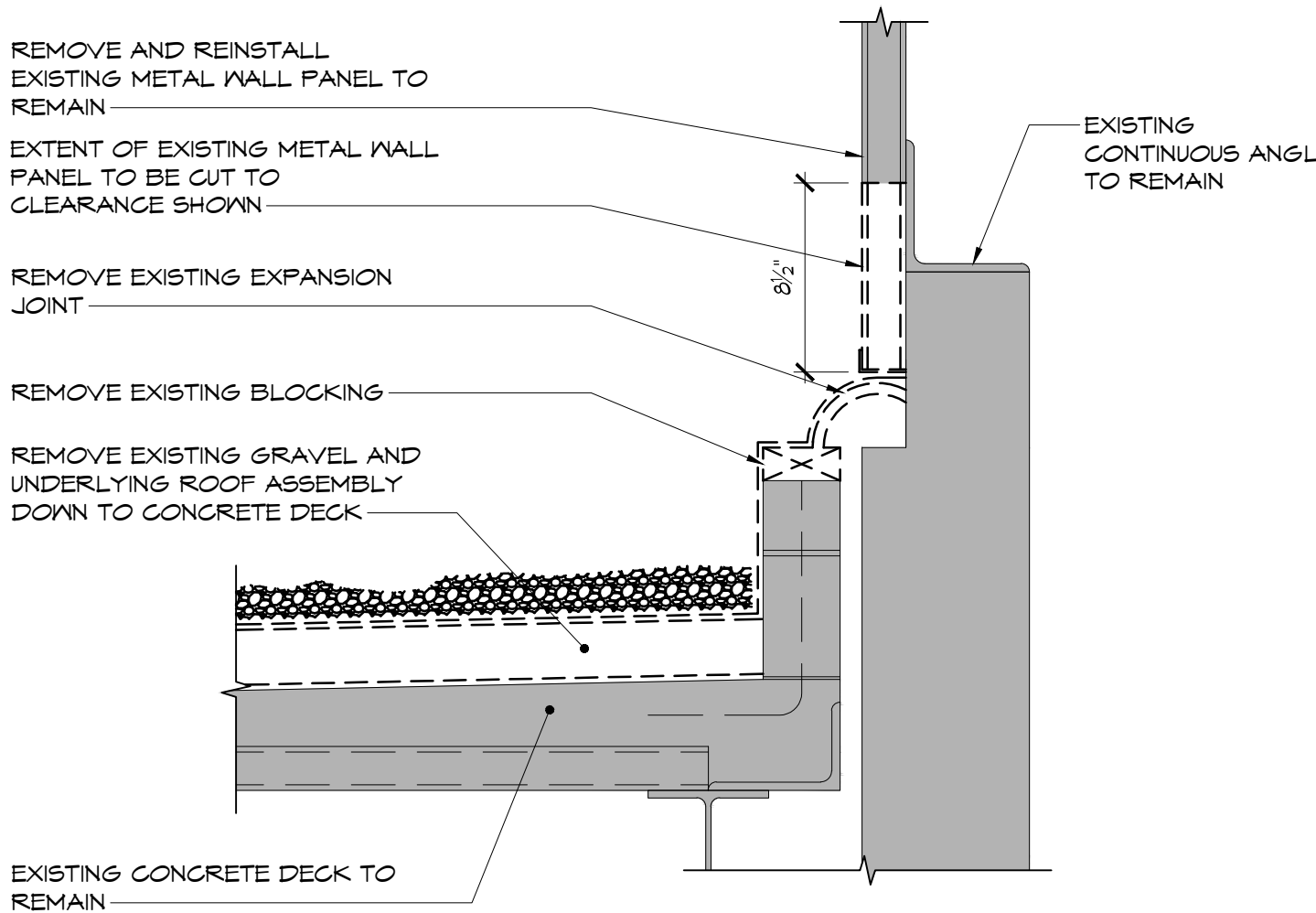
2 ROOF AREA 1163-001 - PARAPET
SCALE: 1 1/2" = 1'-0"



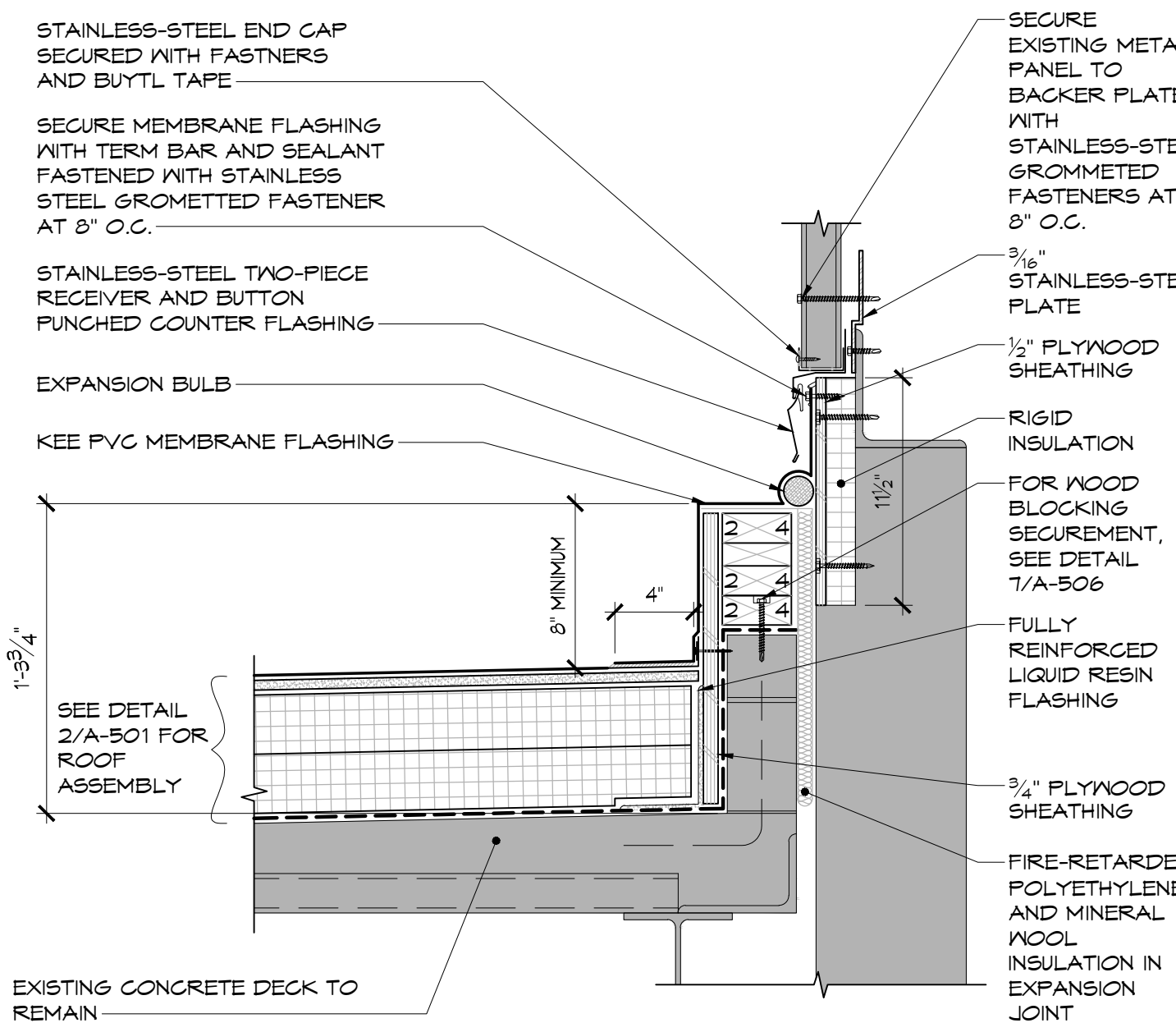
3 ROOF AREA 1163-001 - CURTAIN WALL REMOVAL
SCALE: 1 1/2" = 1'-0"



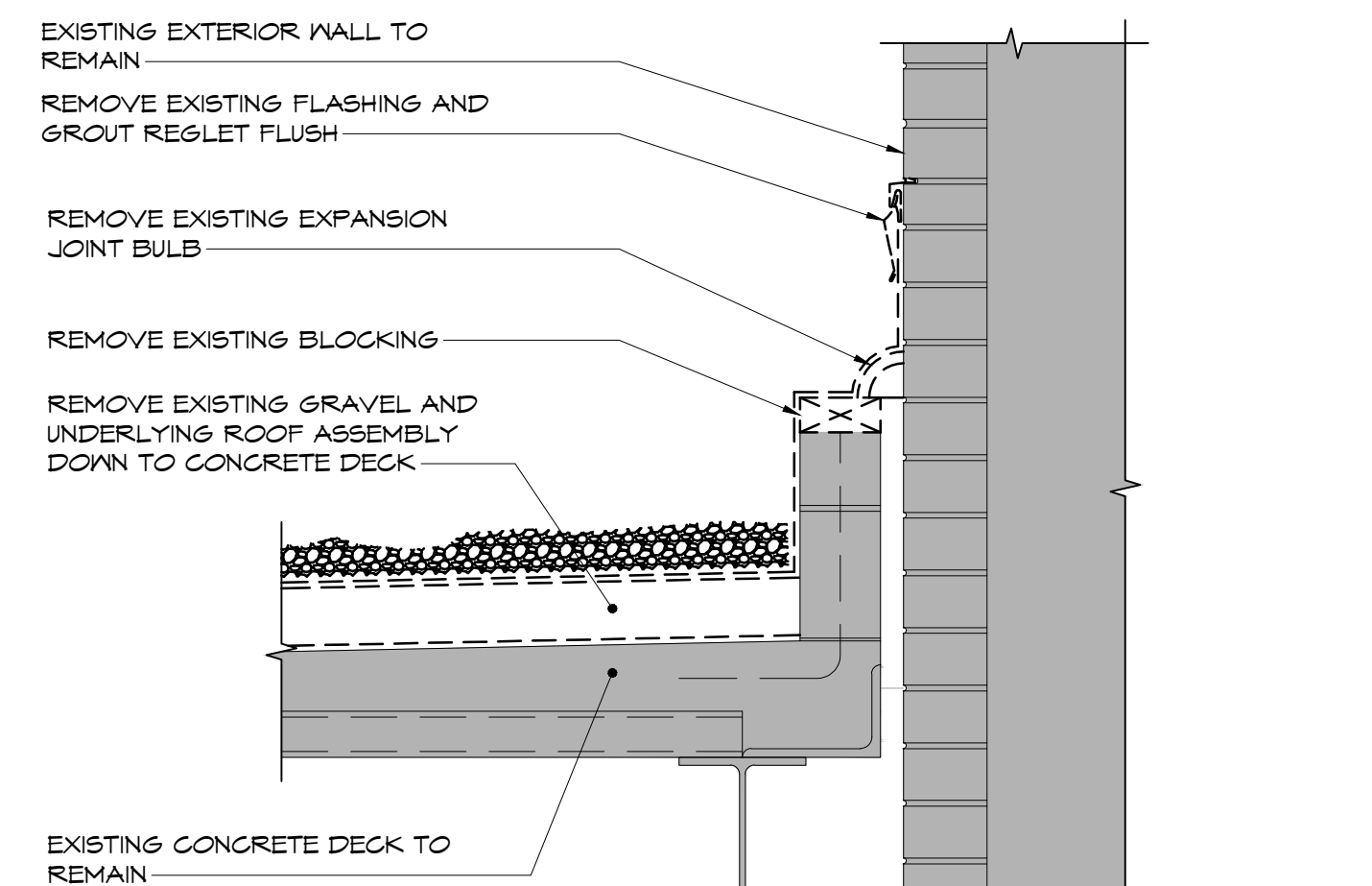
4 ROOF AREA 1163-001 - CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



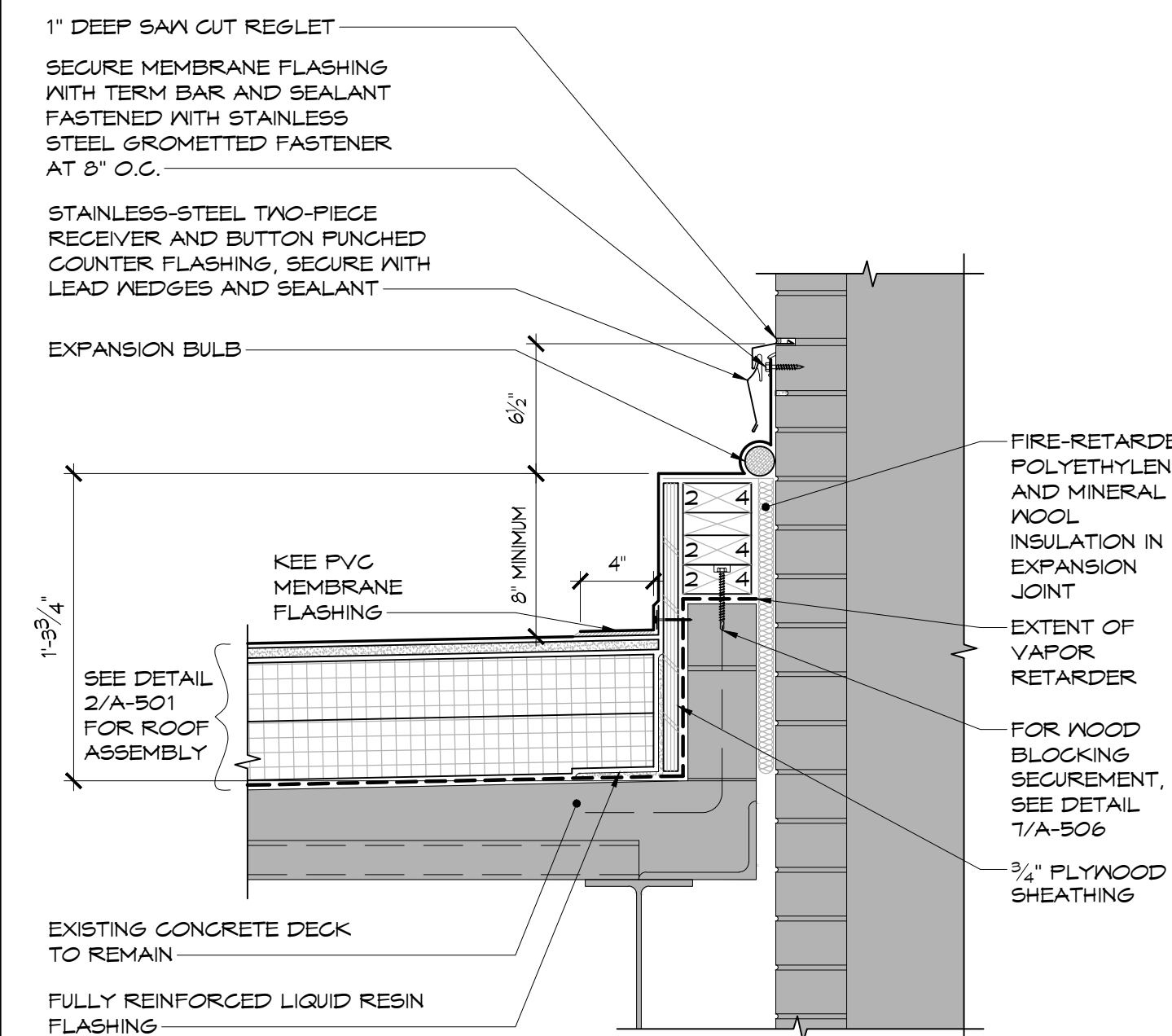
5 ROOF AREA 1163-001 - EAST METAL WALL REMOVAL
SCALE: 1 1/2" = 1'-0"



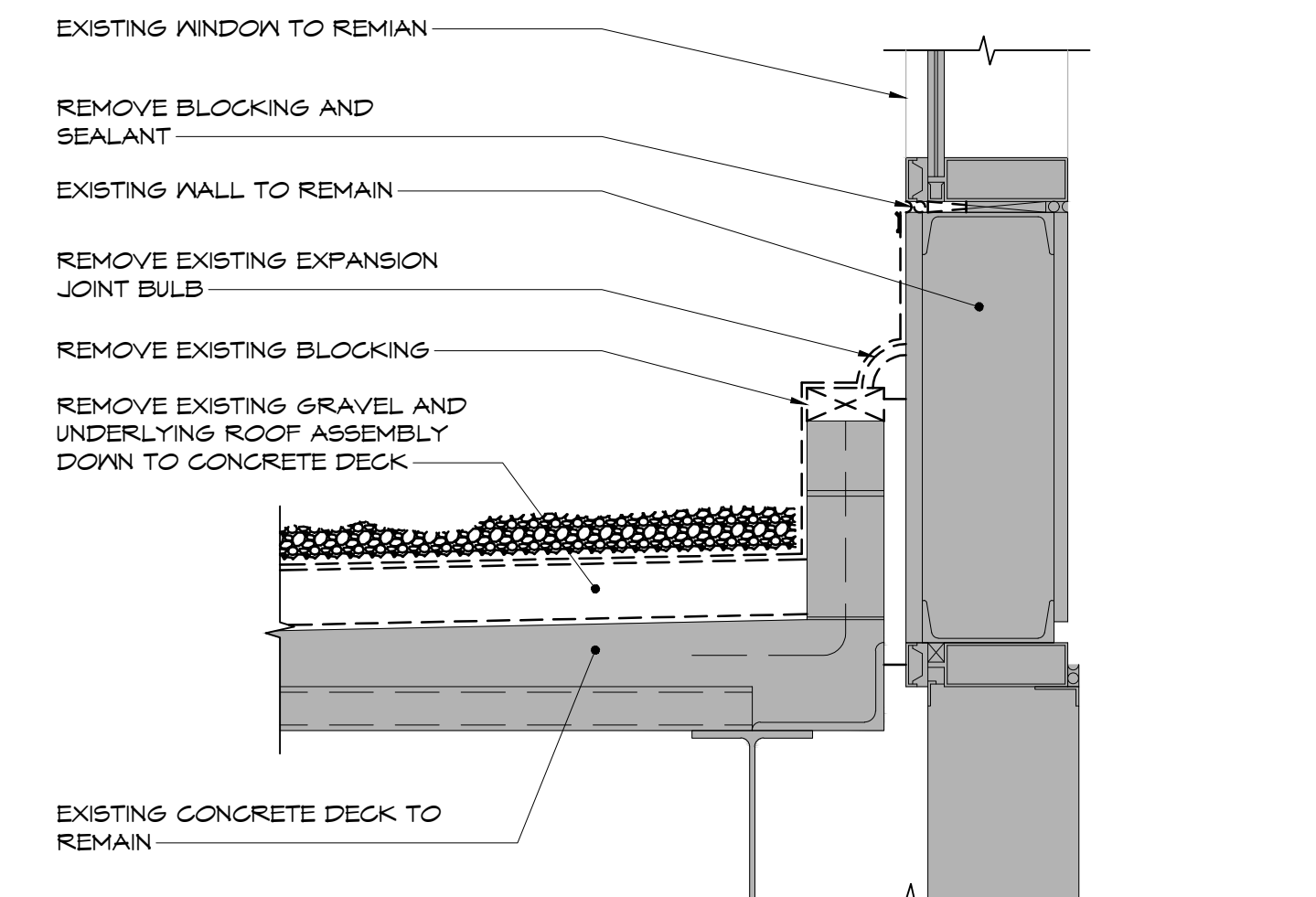
6 ROOF AREA 1163-001 - EAST METAL WALL
SCALE: 1 1/2" = 1'-0"



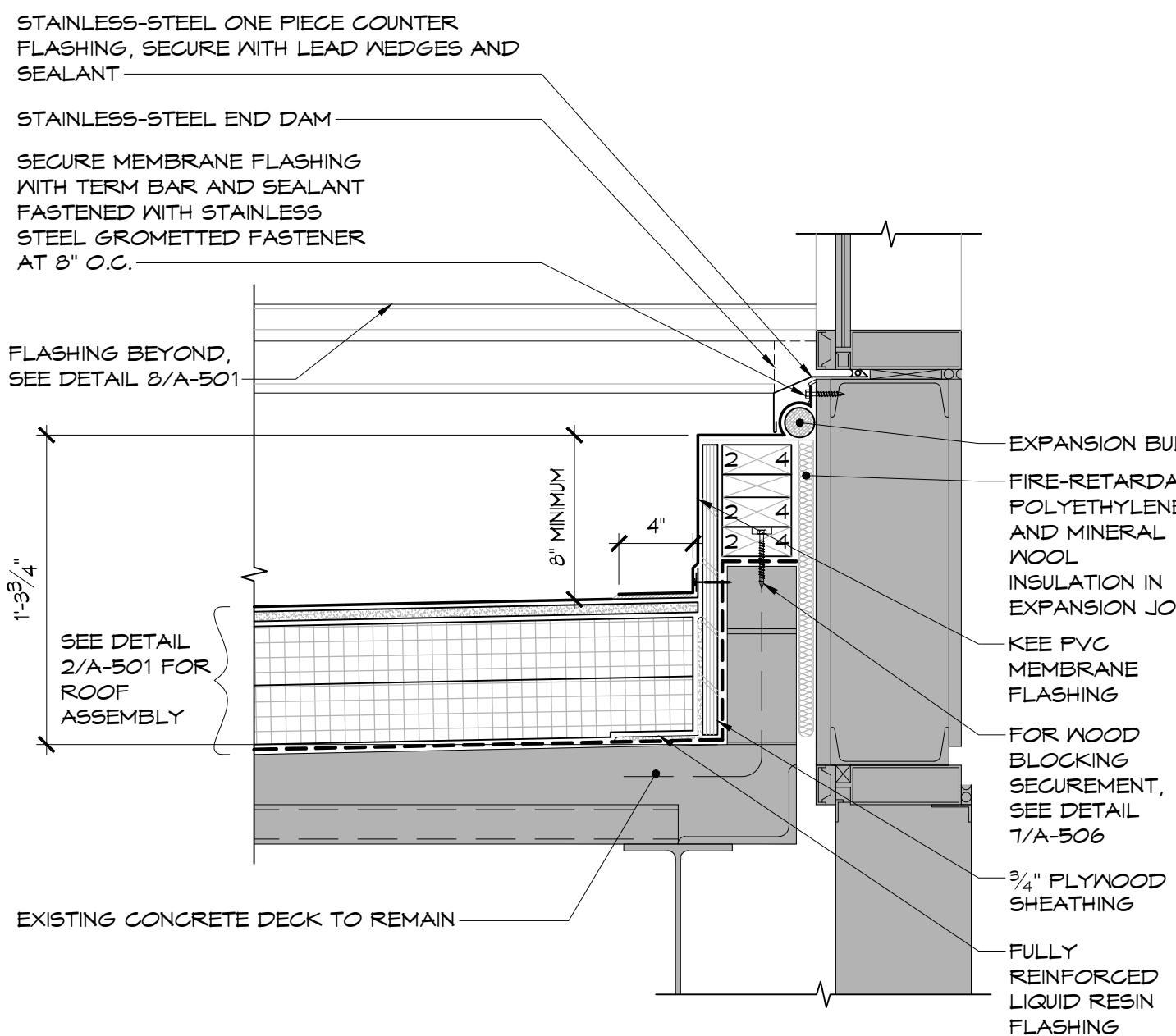
7 ROOF AREA 1163-001 - EAST MASONRY WALL REM.
SCALE: 1 1/2" = 1'-0"



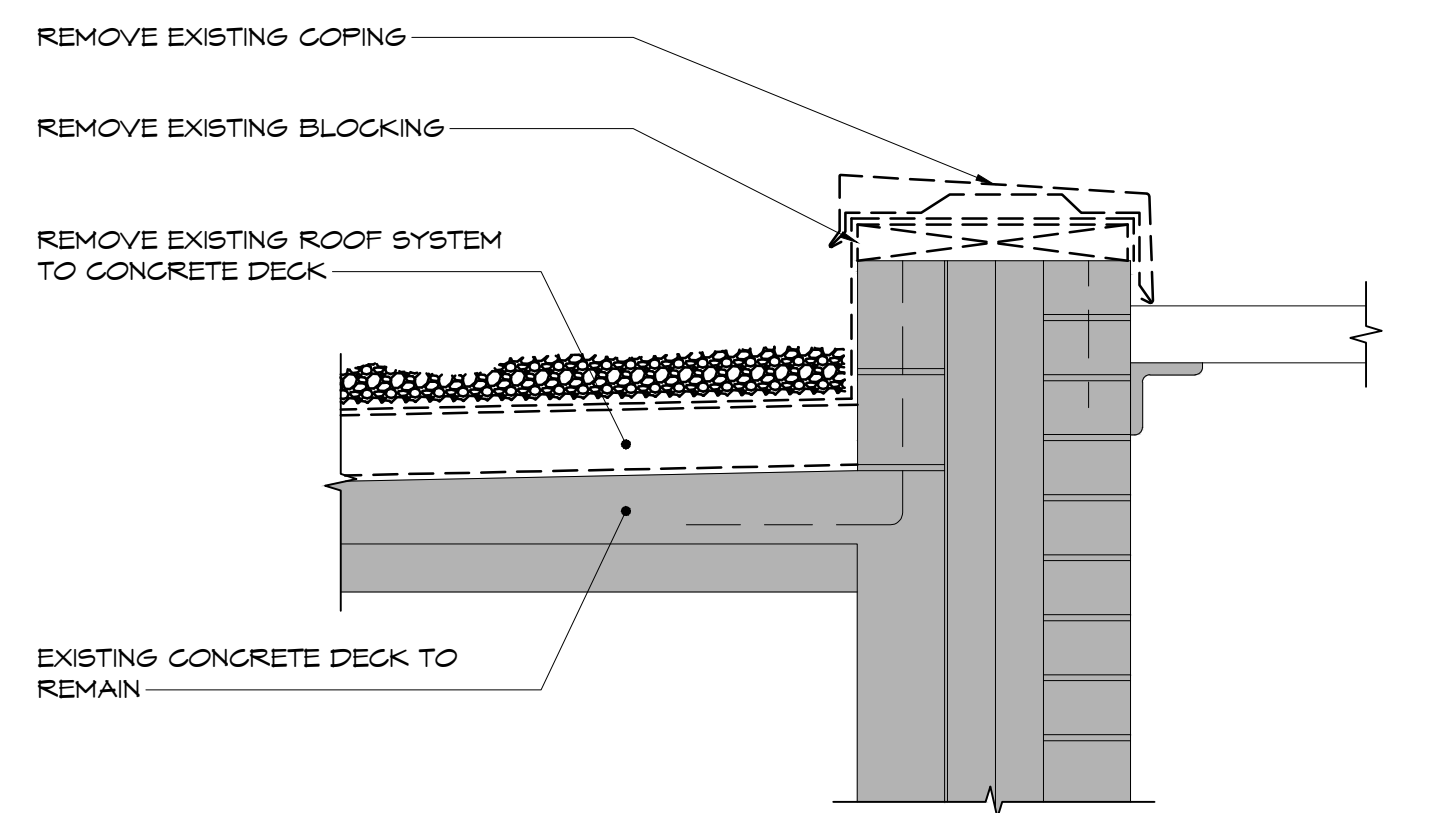
8 ROOF AREA 1163-001 - EAST MASONRY WALL
SCALE: 1 1/2" = 1'-0"



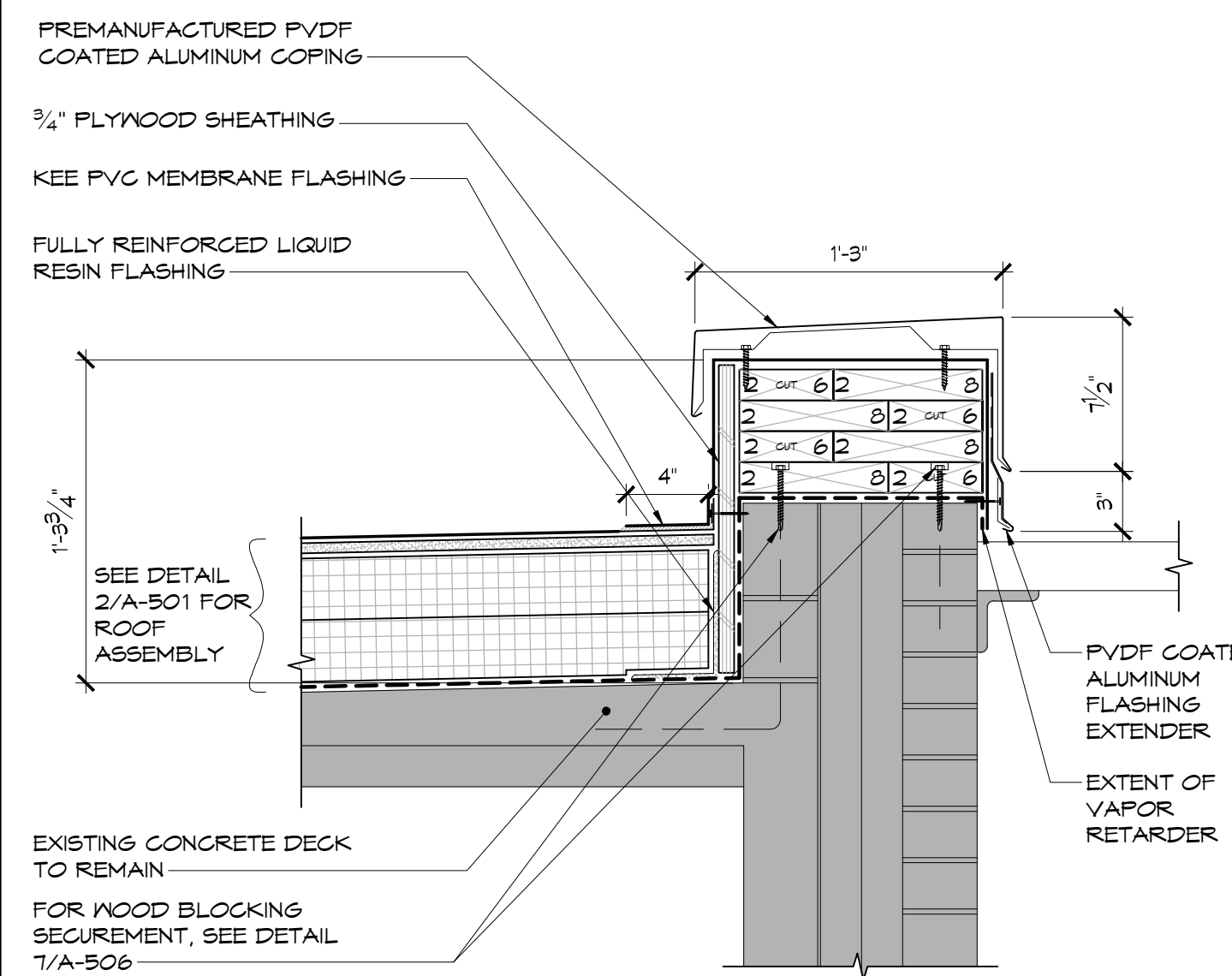
9 ROOF AREA 1163-001 - WEST WINDOW REMOVAL
SCALE: 1 1/2" = 1'-0"



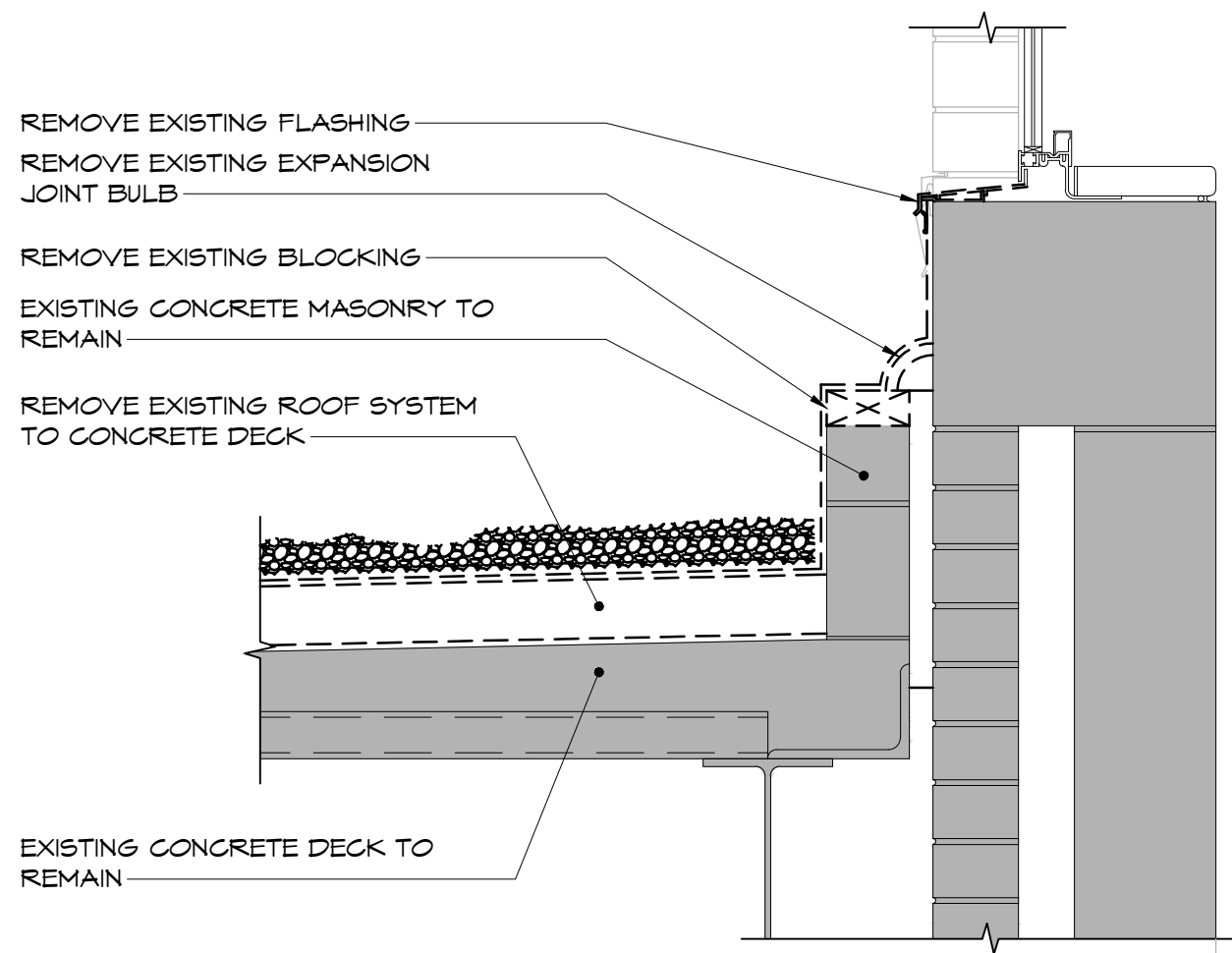
10 ROOF AREA 1163-001 - WEST WINDOW
SCALE: 1 1/2" = 1'-0"



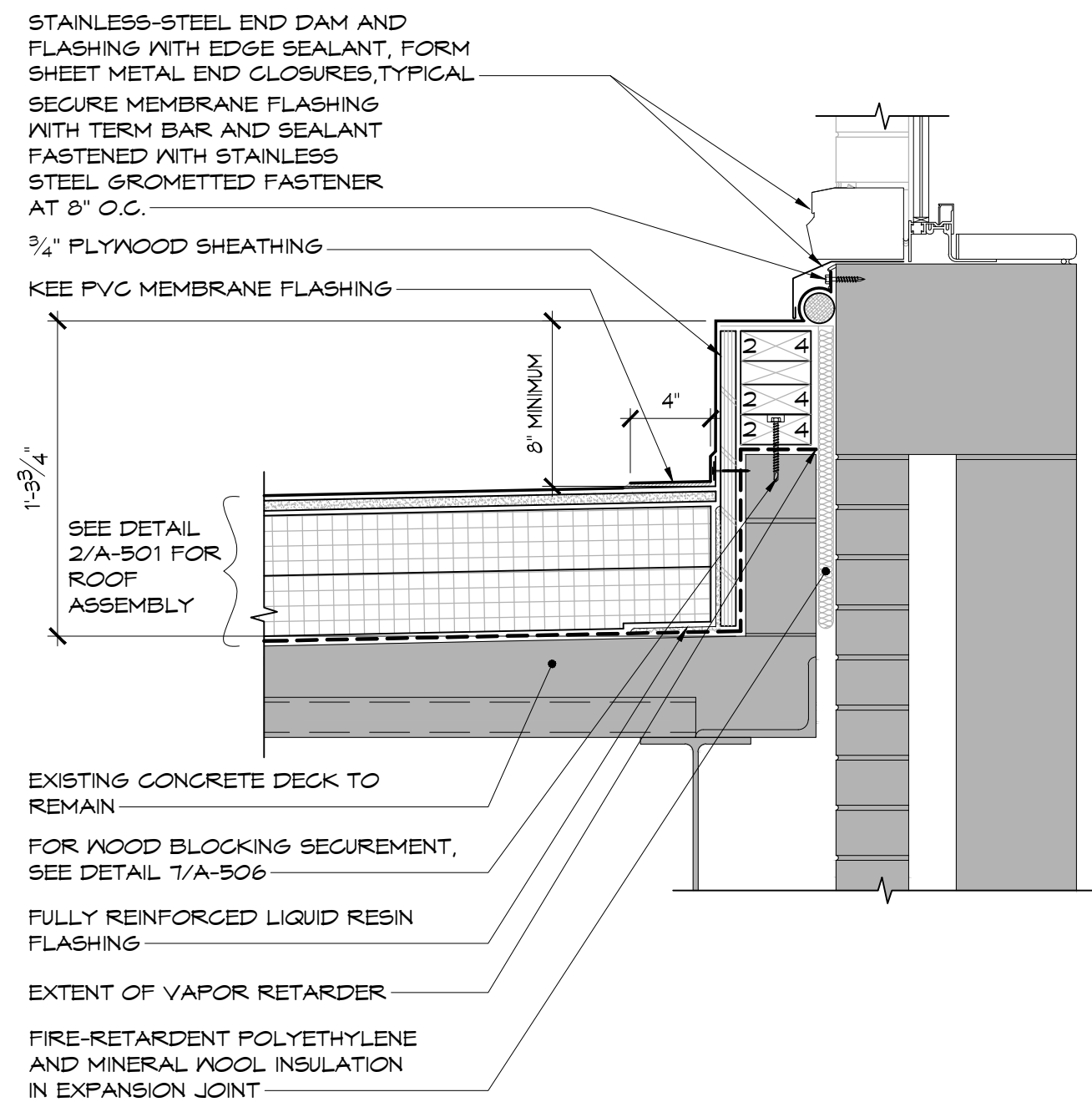
11 ROOF AREA 1163-001 - AREAWAY COPING REMOVAL
SCALE: 1 1/2" = 1'-0"



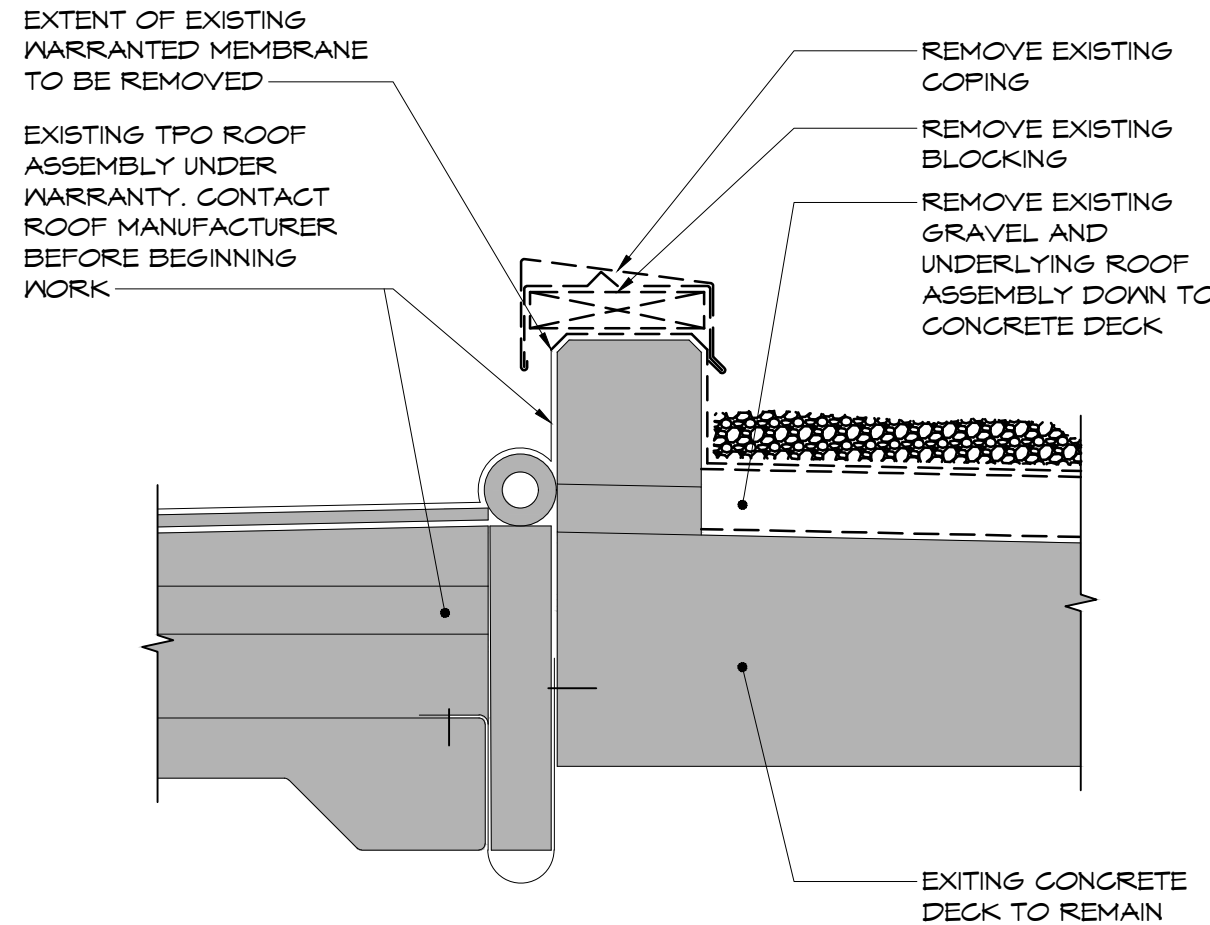
12 ROOF AREA 1163-001 - AREAWAY COPING
SCALE: 1 1/2" = 1'-0"



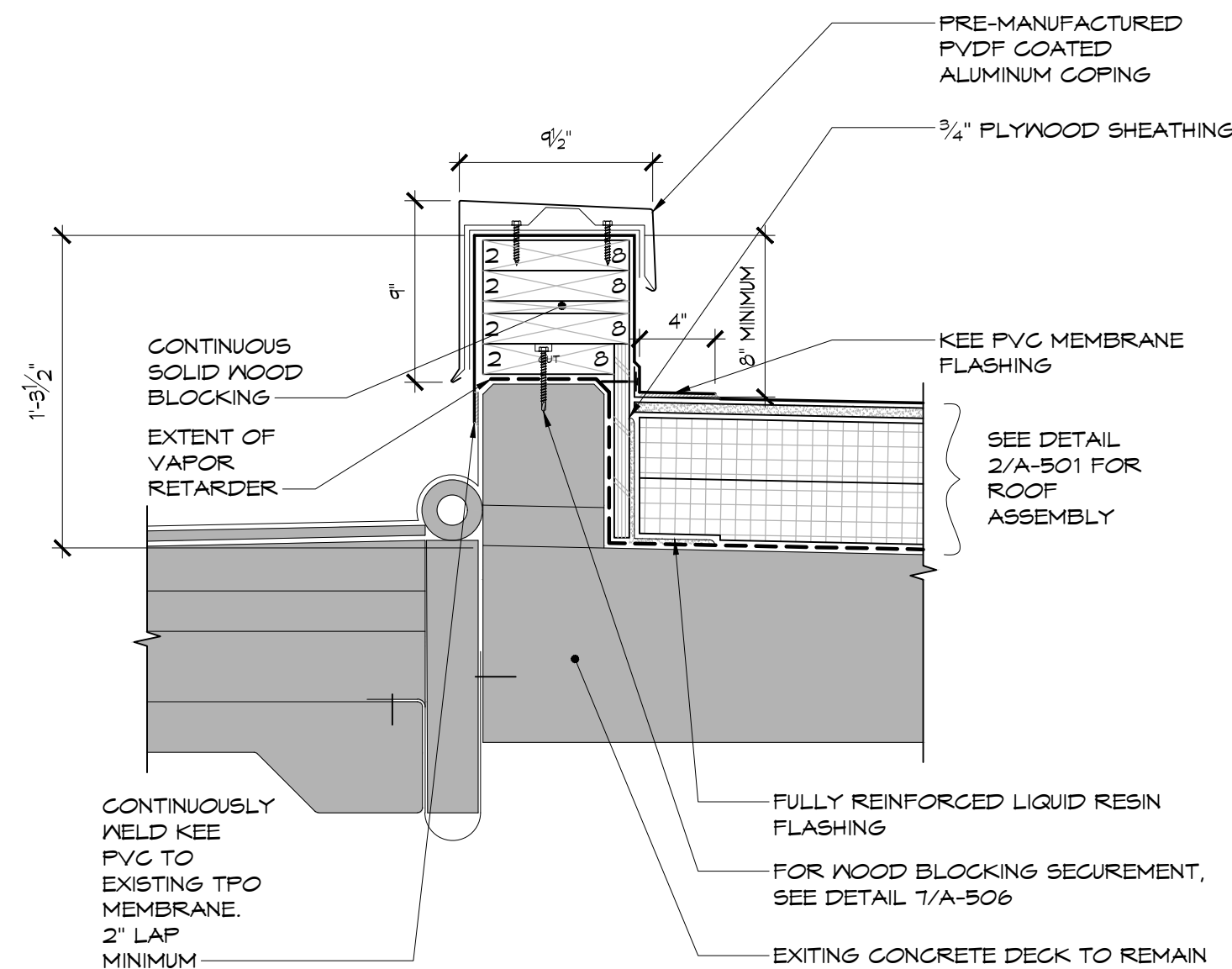
1 ROOF AREA 1163-001 - SOUTH WEST WINDOW REM.
SCALE: 1 1/2" = 1'-0"



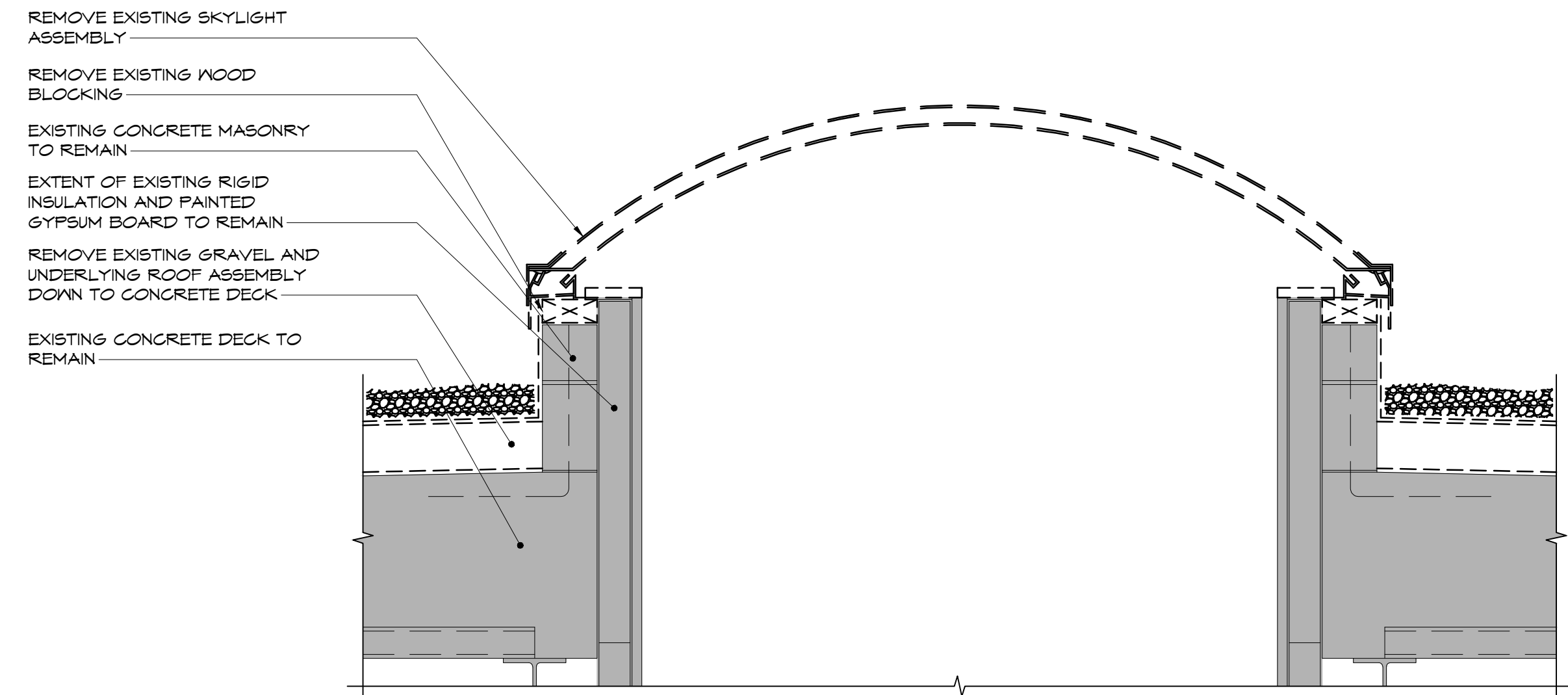
2 ROOF AREA 1163-001 - SOUTH WEST WINDOW
SCALE: 1 1/2" = 1'-0"



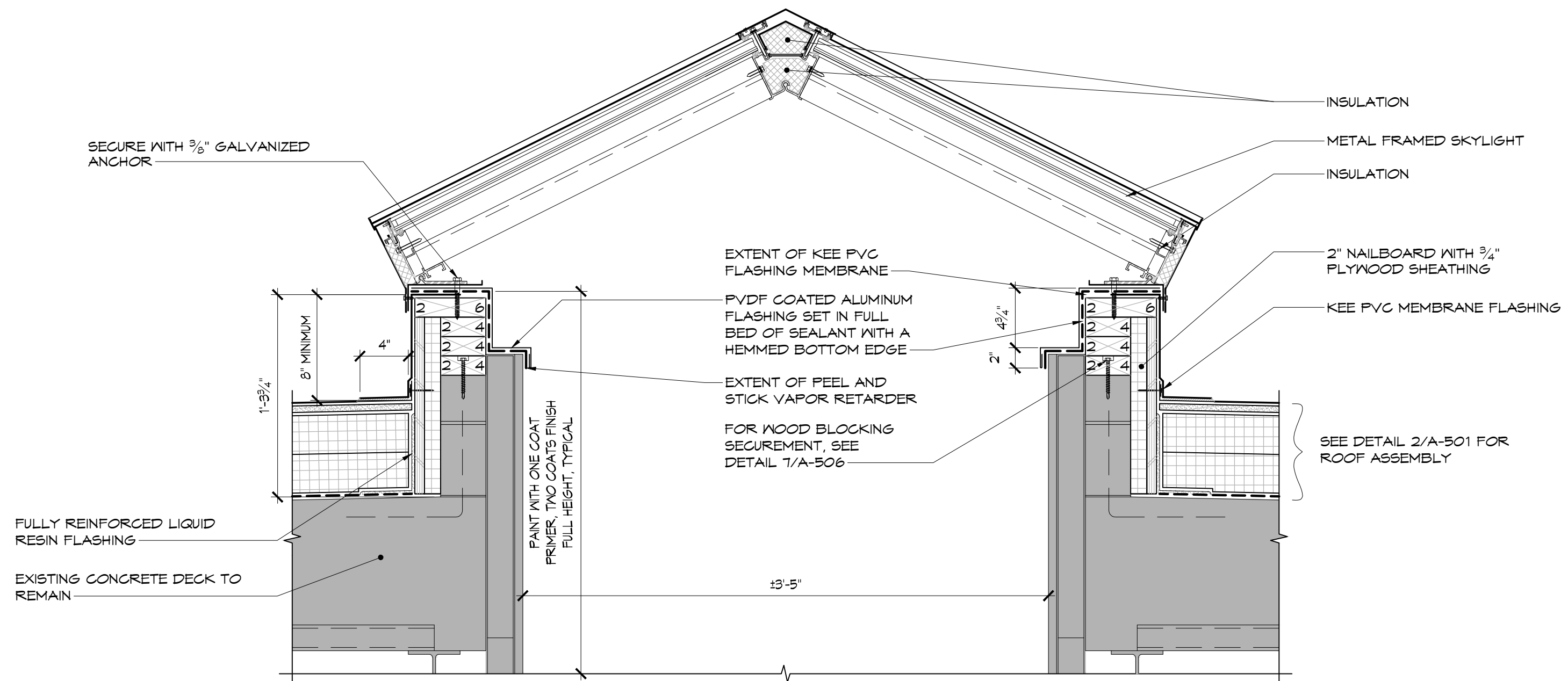
3 ROOF AREA 1163-001 - ROOF AREA DIVIDER REM.
SCALE: 1 1/2" = 1'-0"



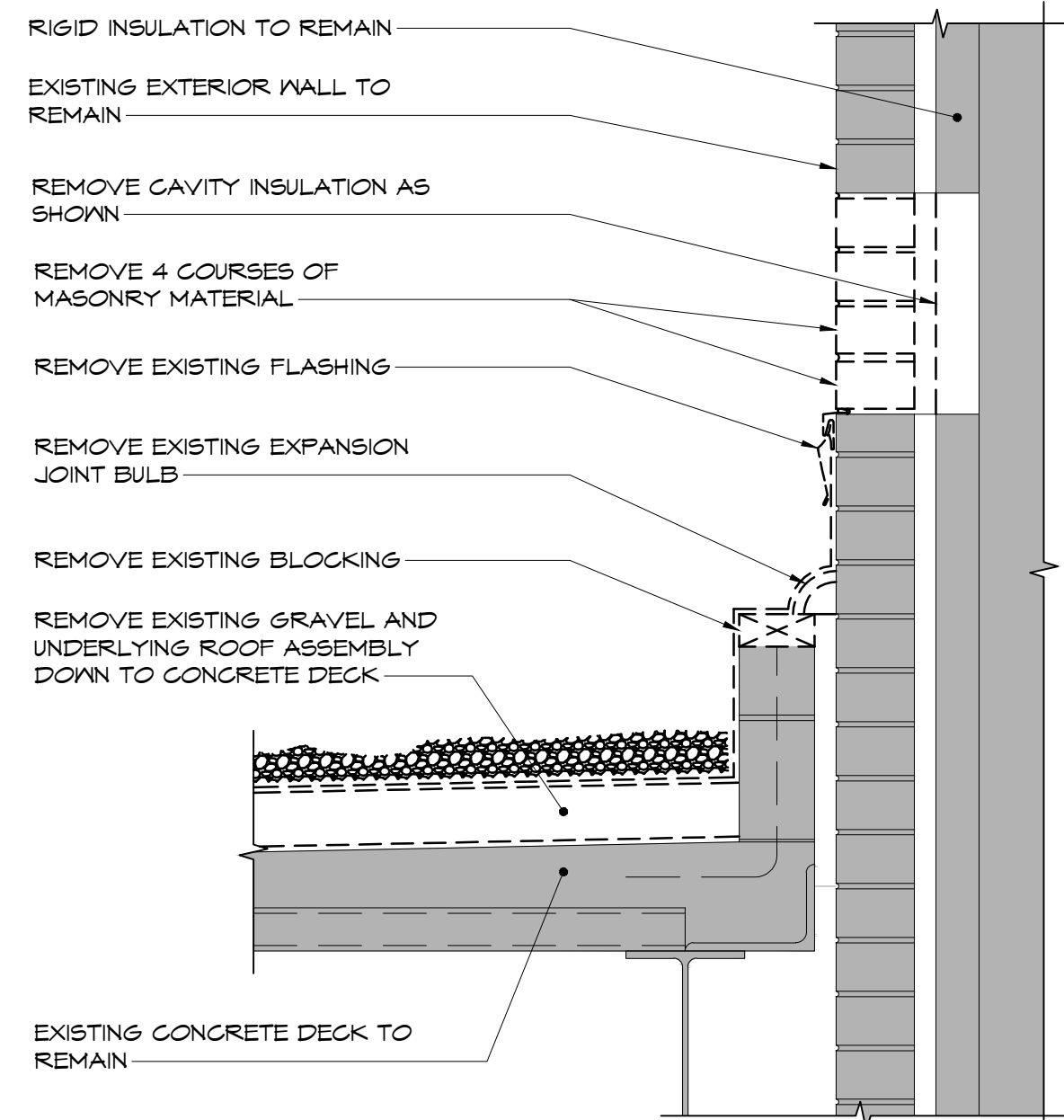
4 ROOF AREA 1163-001 - ROOF AREA DIVIDER
SCALE: 1 1/2" = 1'-0"



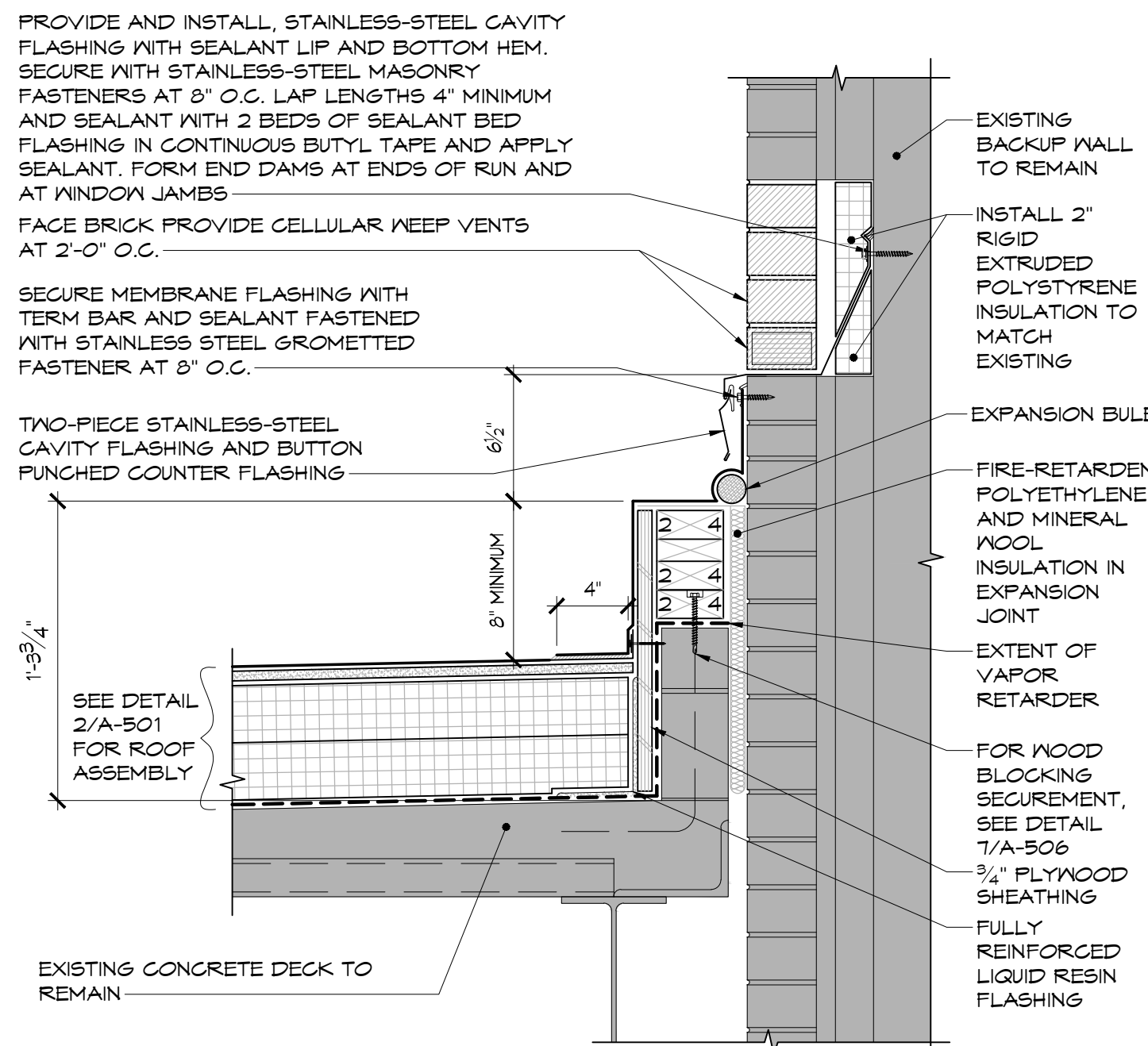
5 ROOF AREA 1163-001 - SKYLIGHT REMOVAL SECTION
SCALE: 1 1/2" = 1'-0"



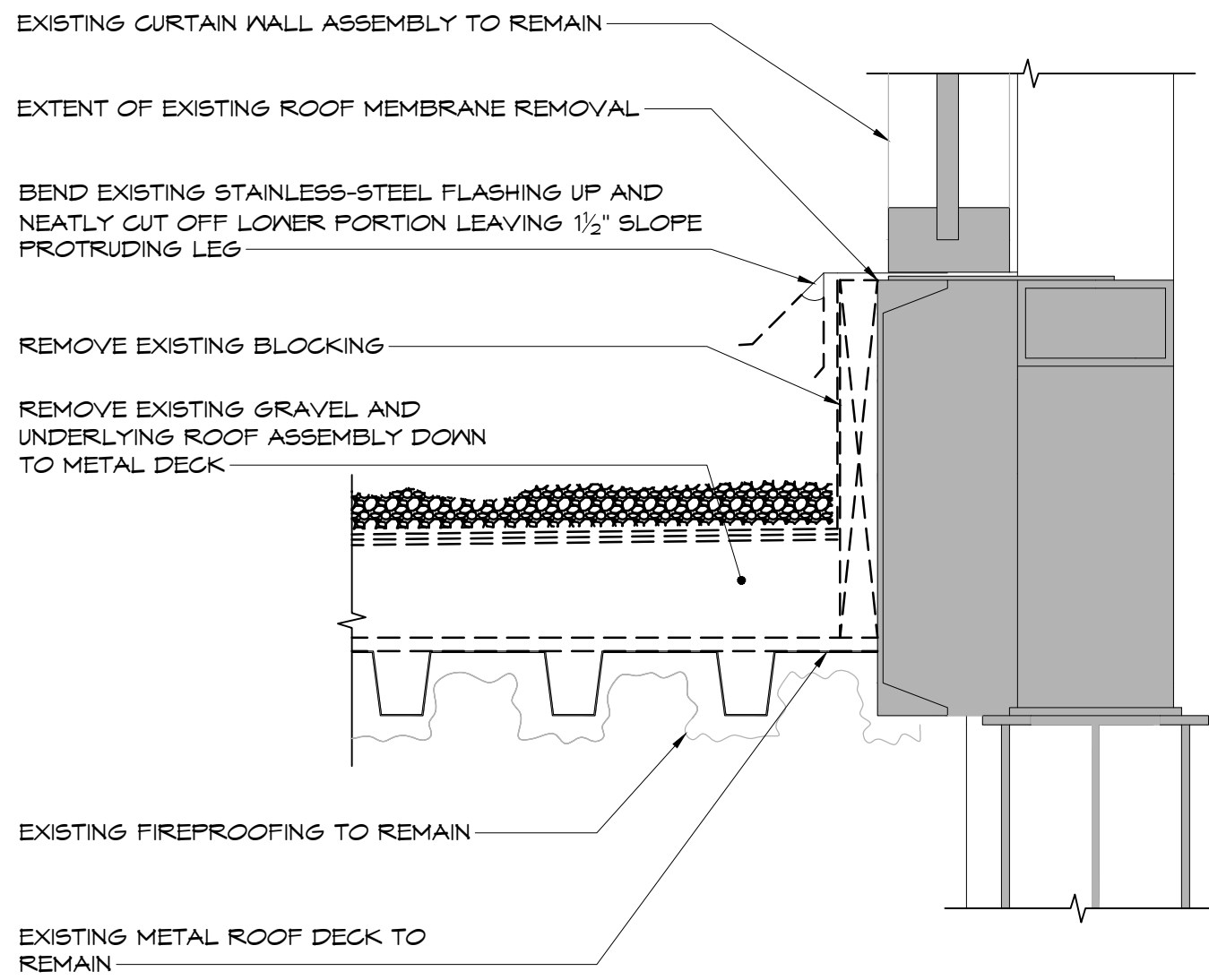
6 ROOF AREA 1163-001 - SKYLIGHT SECTION
SCALE: 1 1/2" = 1'-0"



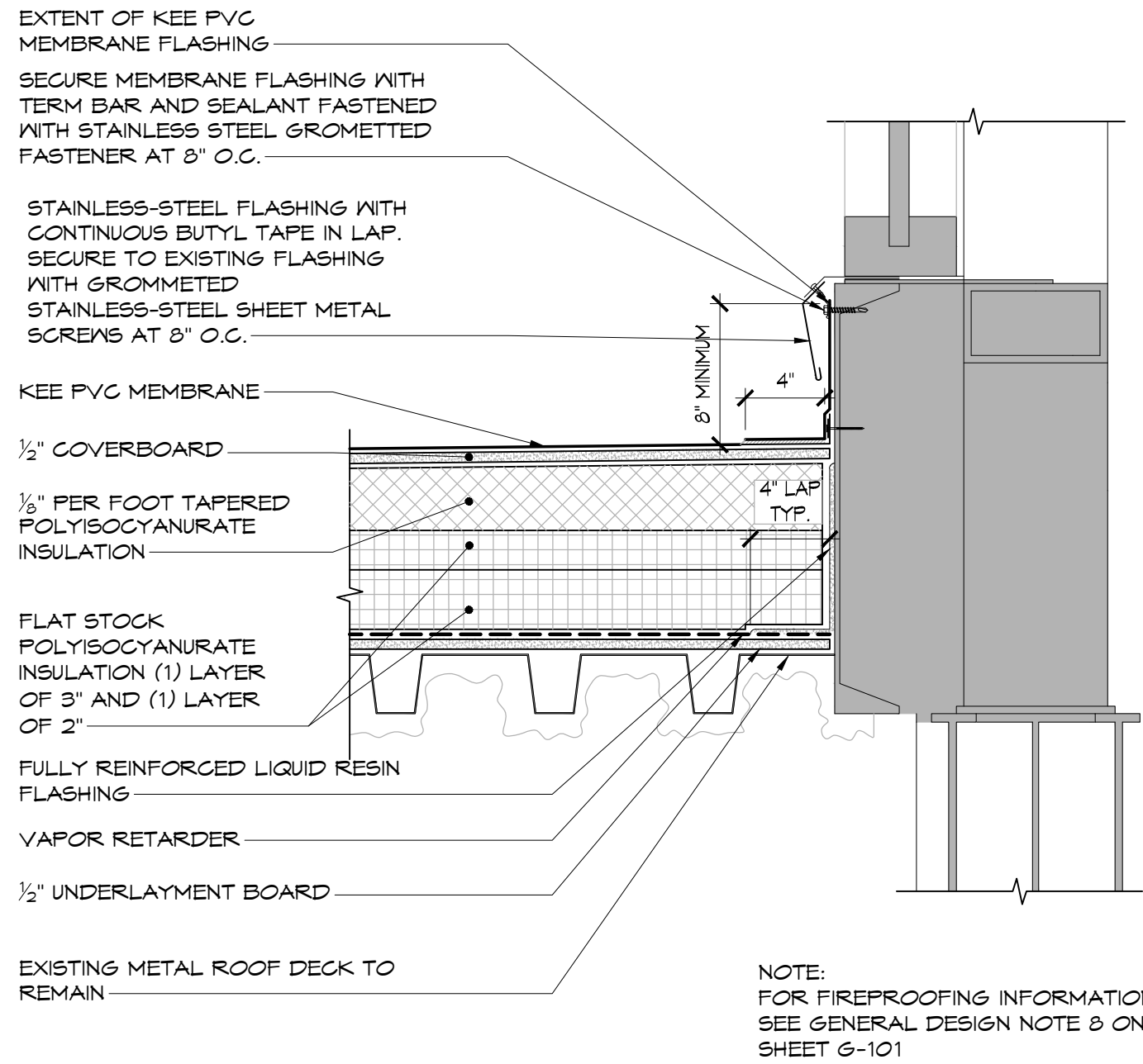
7 ROOF AREA 1163-001 - WEST MASONRY WALL REM.
SCALE: 1 1/2" = 1'-0"



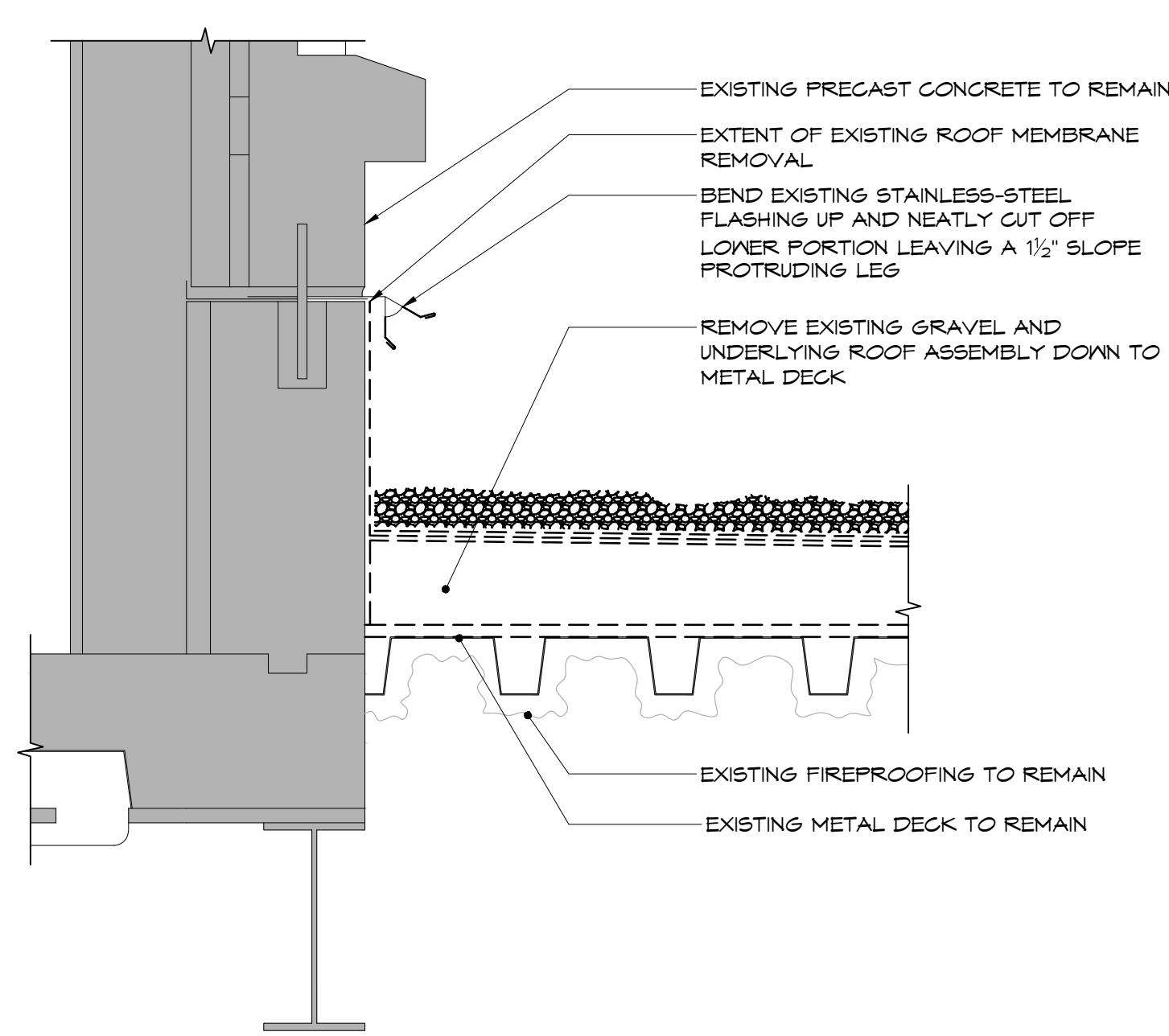
8 ROOF AREA 1163-001 - WEST MASONRY WALL
SCALE: 1 1/2" = 1'-0"



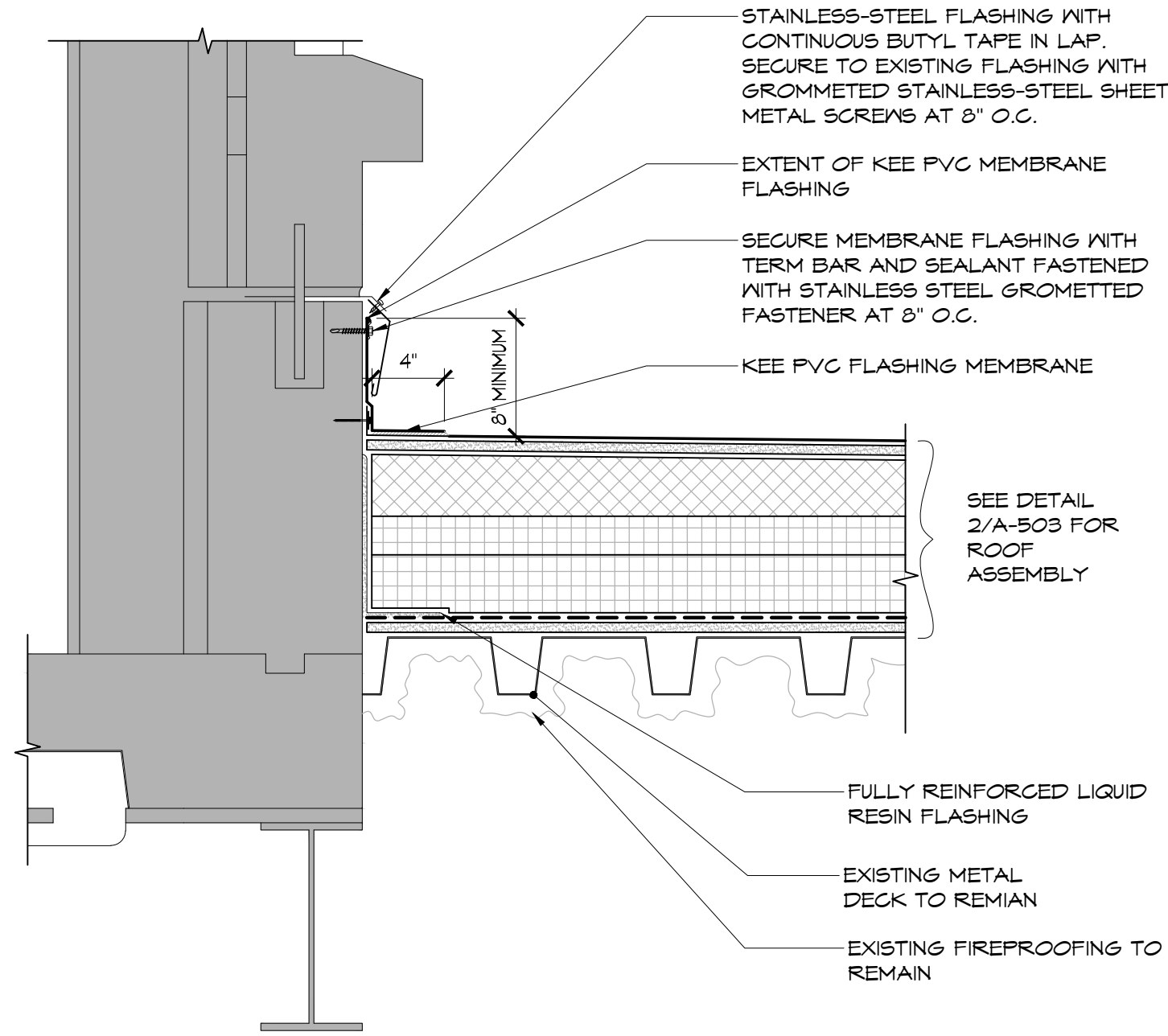
1 ROOF AREA 001 - ROOF TO CURTAIN WALL REMOVAL
SCALE: 1 1/2" = 1'-0"



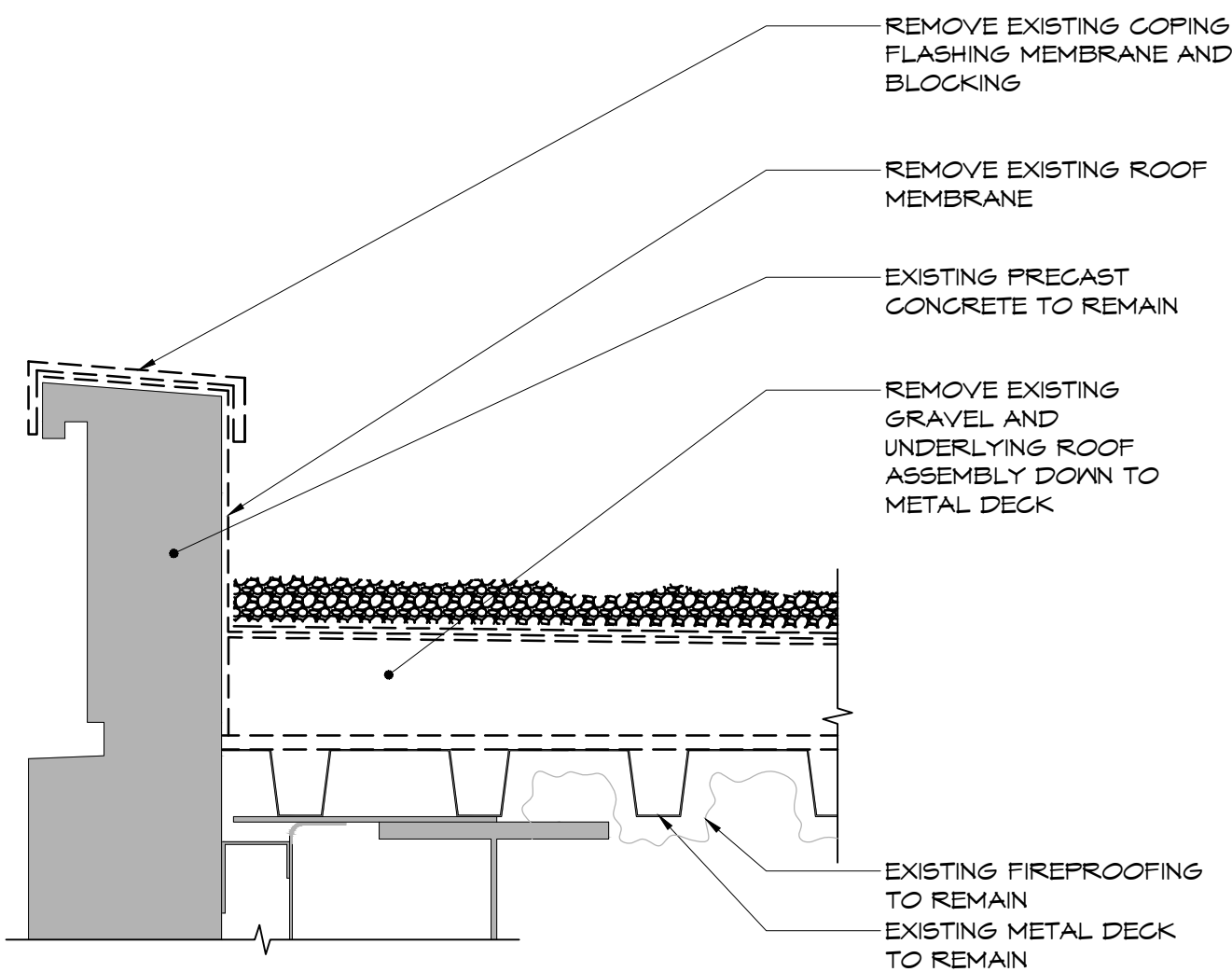
2 ROOF AREA 001 - ROOF TO CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



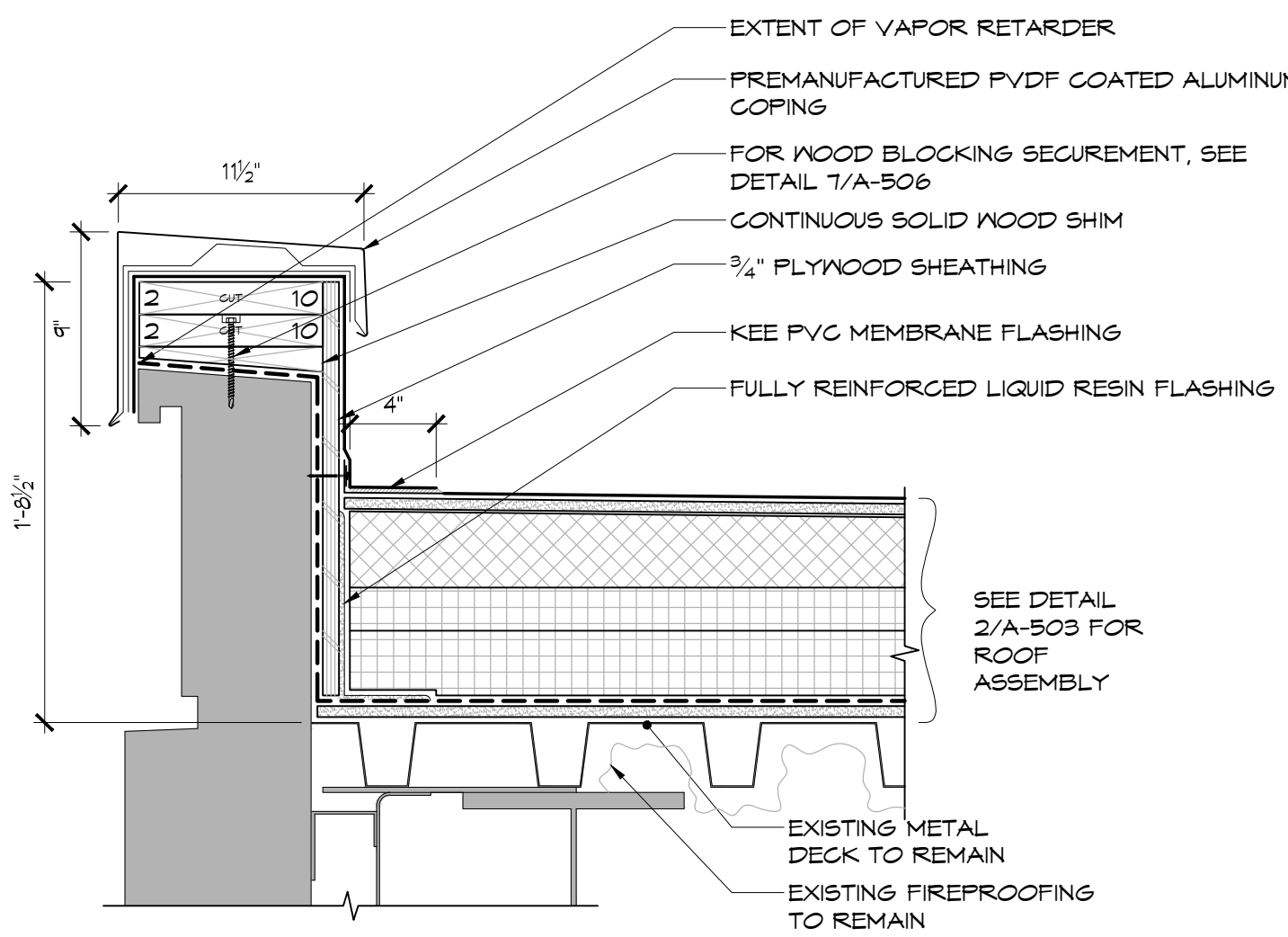
3 ROOF AREA 001 - ROOF TO TOWER WALL REMOVAL
SCALE: 1 1/2" = 1'-0"



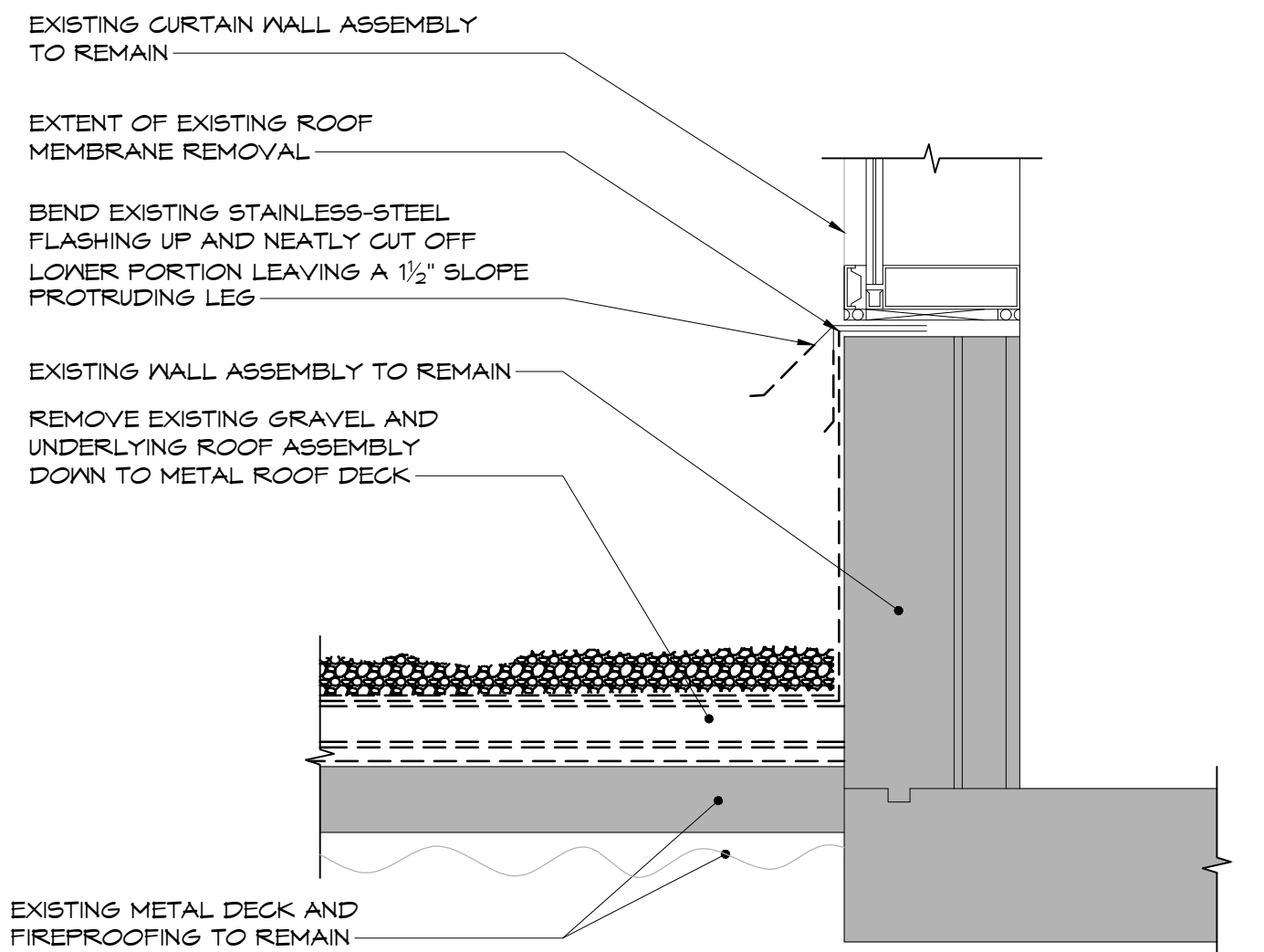
4 ROOF AREA 001 - ROOF TO TOWER WALL
SCALE: 1 1/2" = 1'-0"



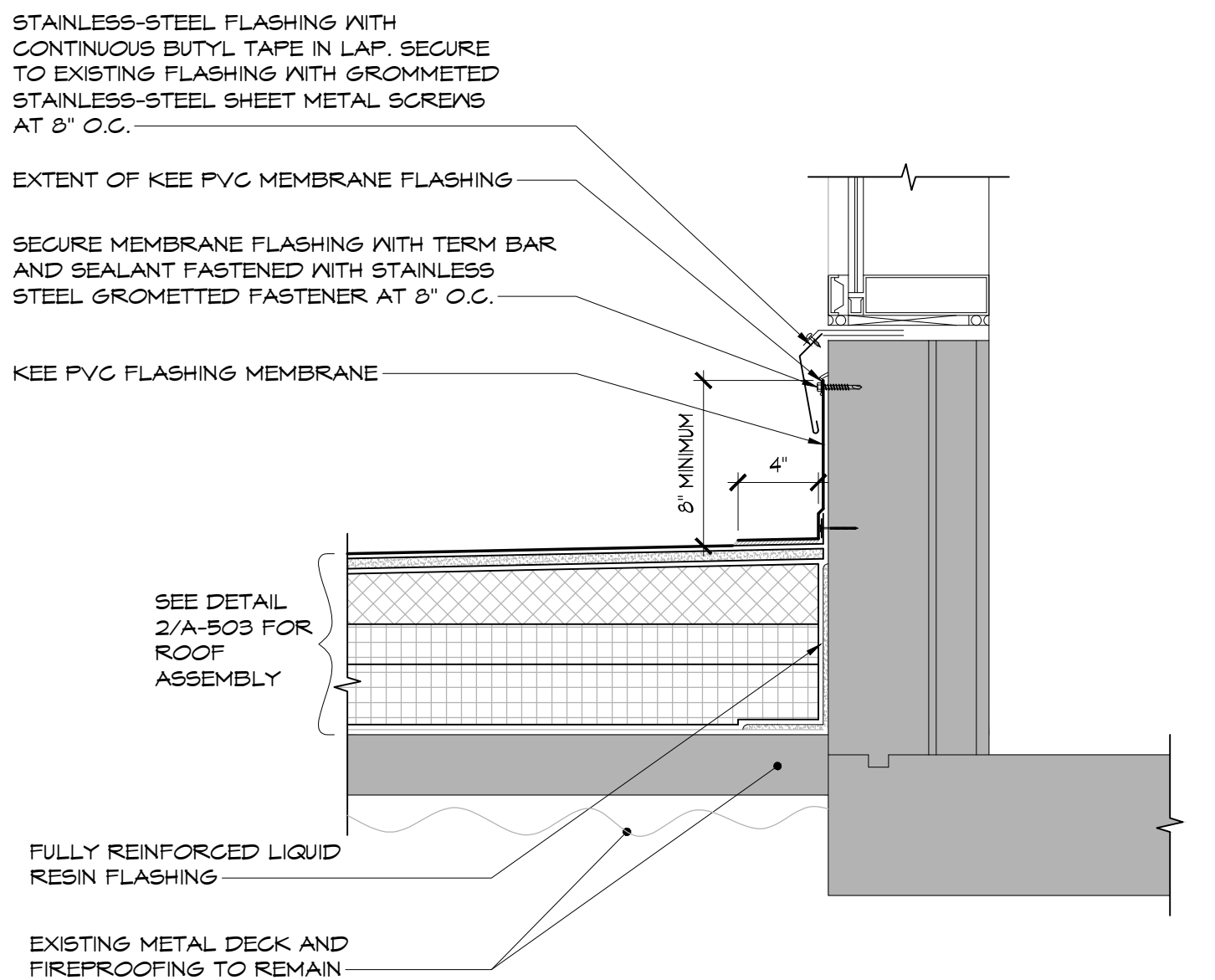
5 ROOF AREA 001 - PARAPET COPING REMOVAL
SCALE: 1 1/2" = 1'-0"



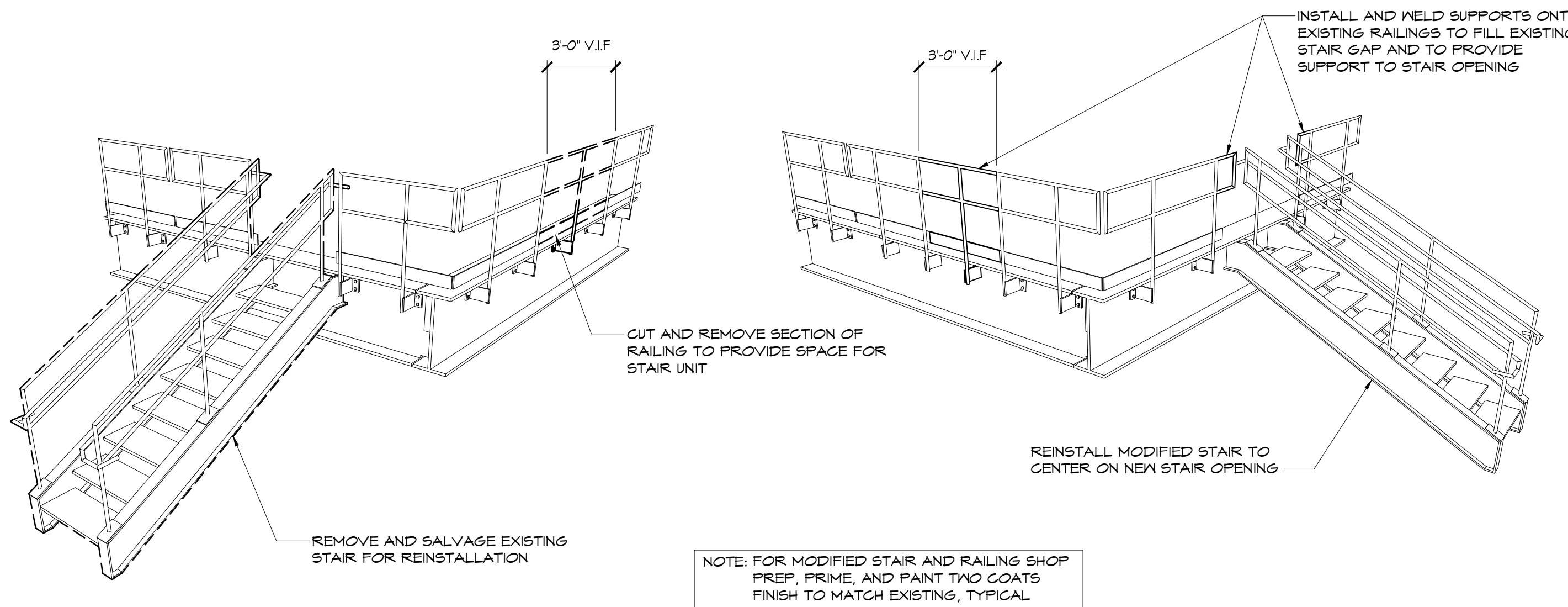
6 ROOF AREA 001 - PARAPET COPING
SCALE: 1 1/2" = 1'-0"



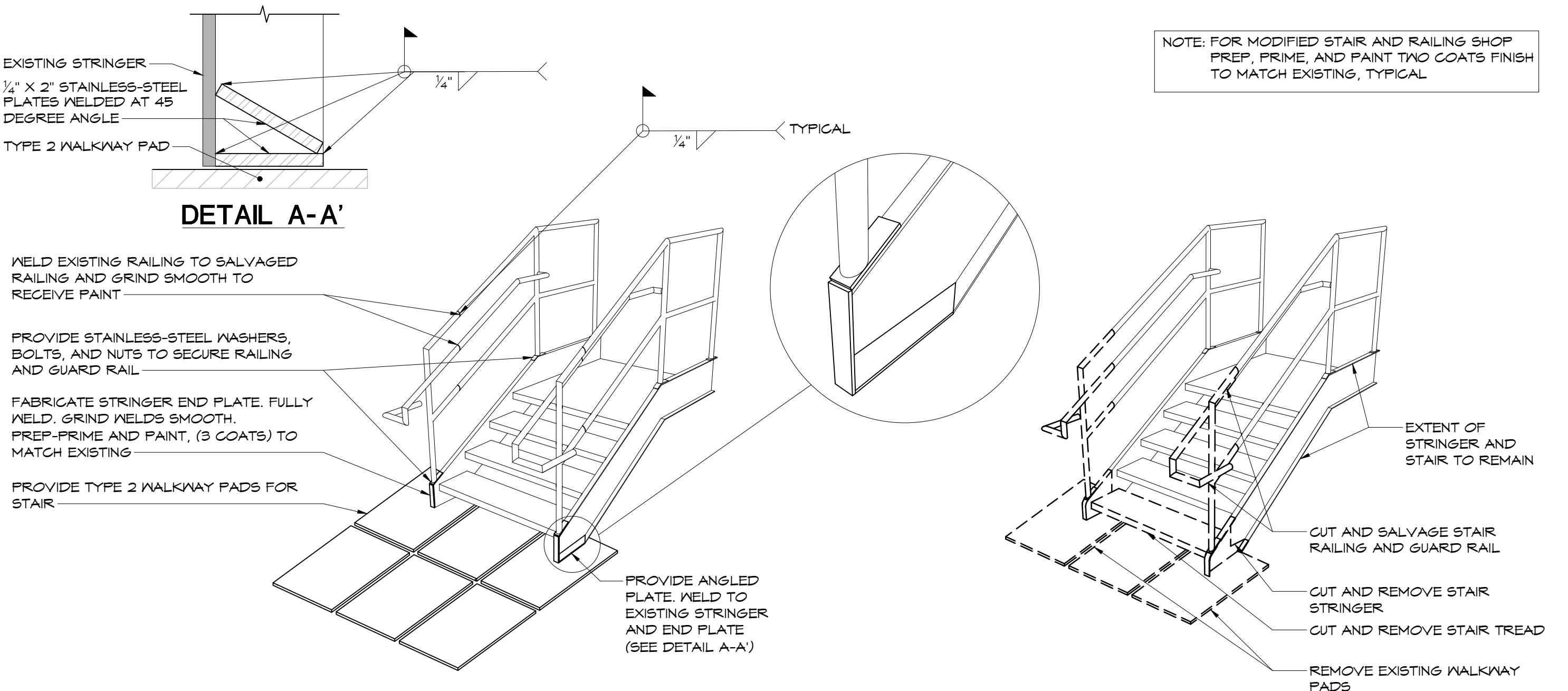
7 ROOF AREA 001 - ROOF TO TOWER CURTAIN WALL REM.
SCALE: 1 1/2" = 1'-0"



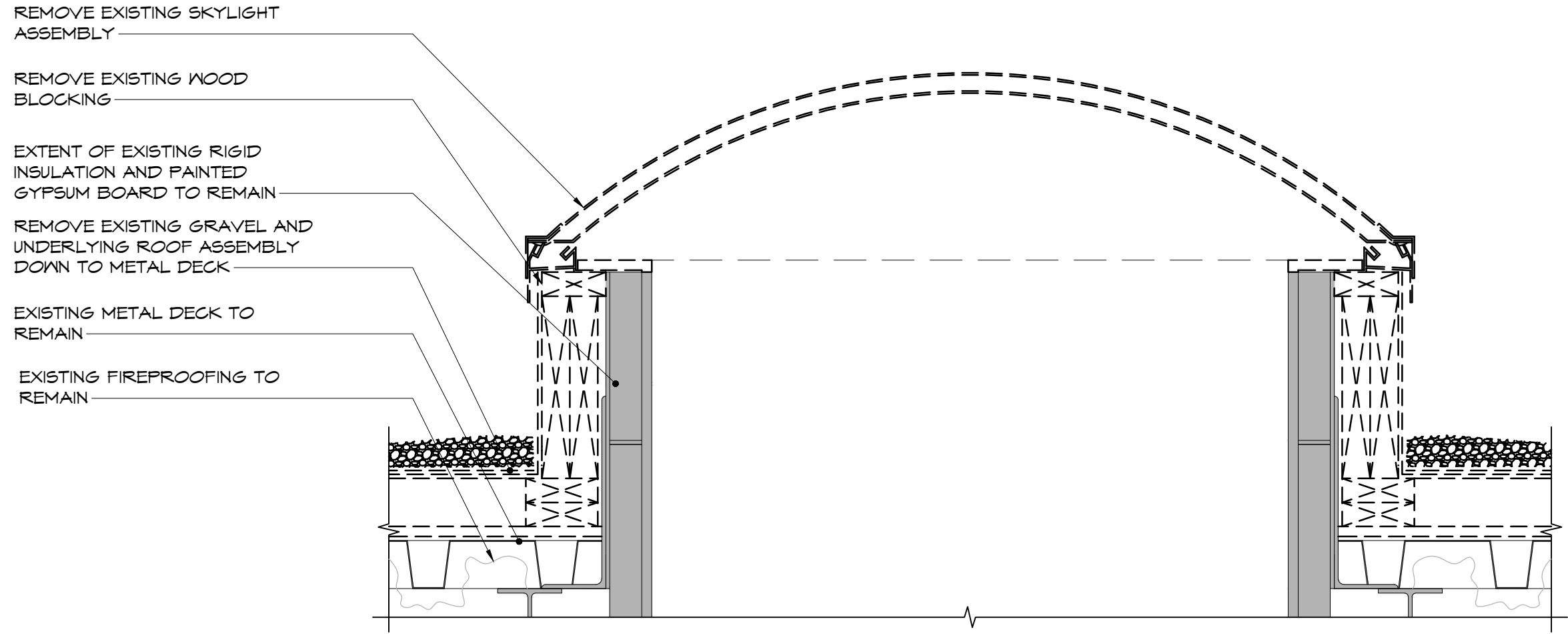
8 ROOF AREA 001 - ROOF TO TOWER CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



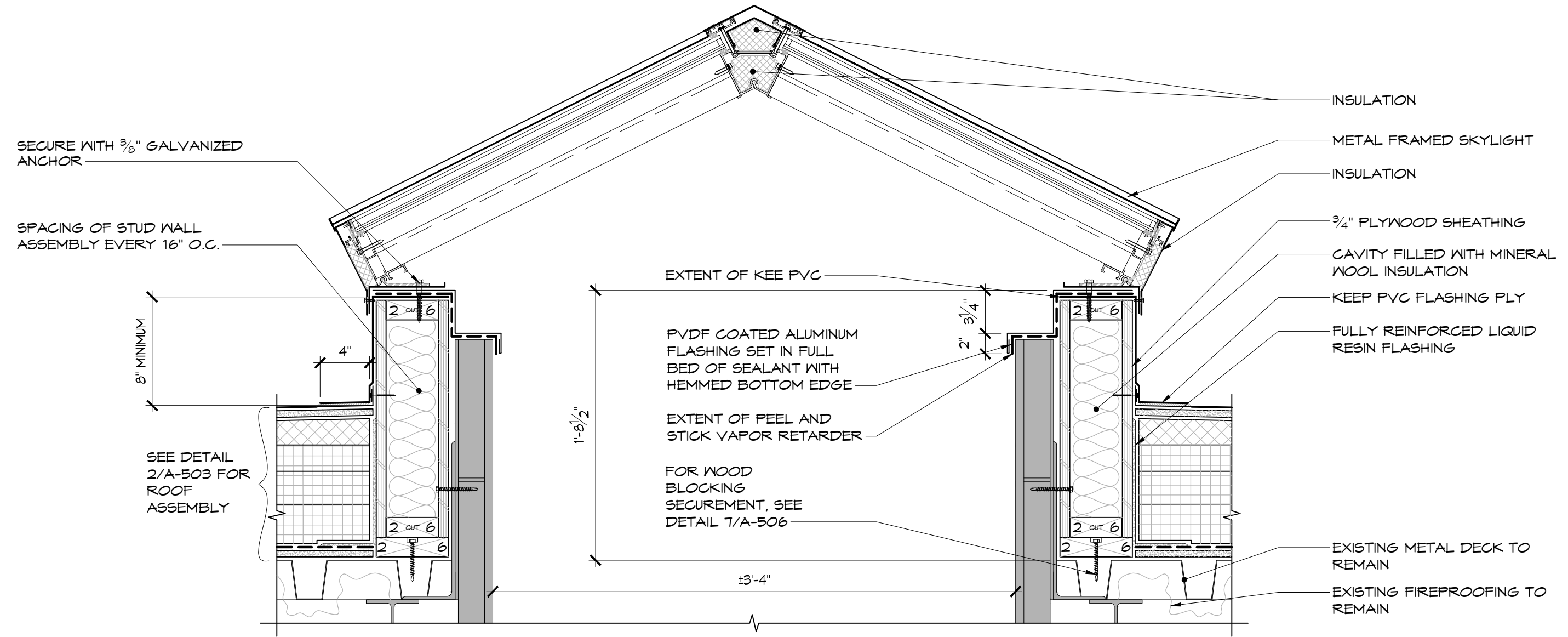
9 ROOF AREA 001 - AHU STAIR MODIFICATION
SCALE: 1 1/2" = 1'-0"



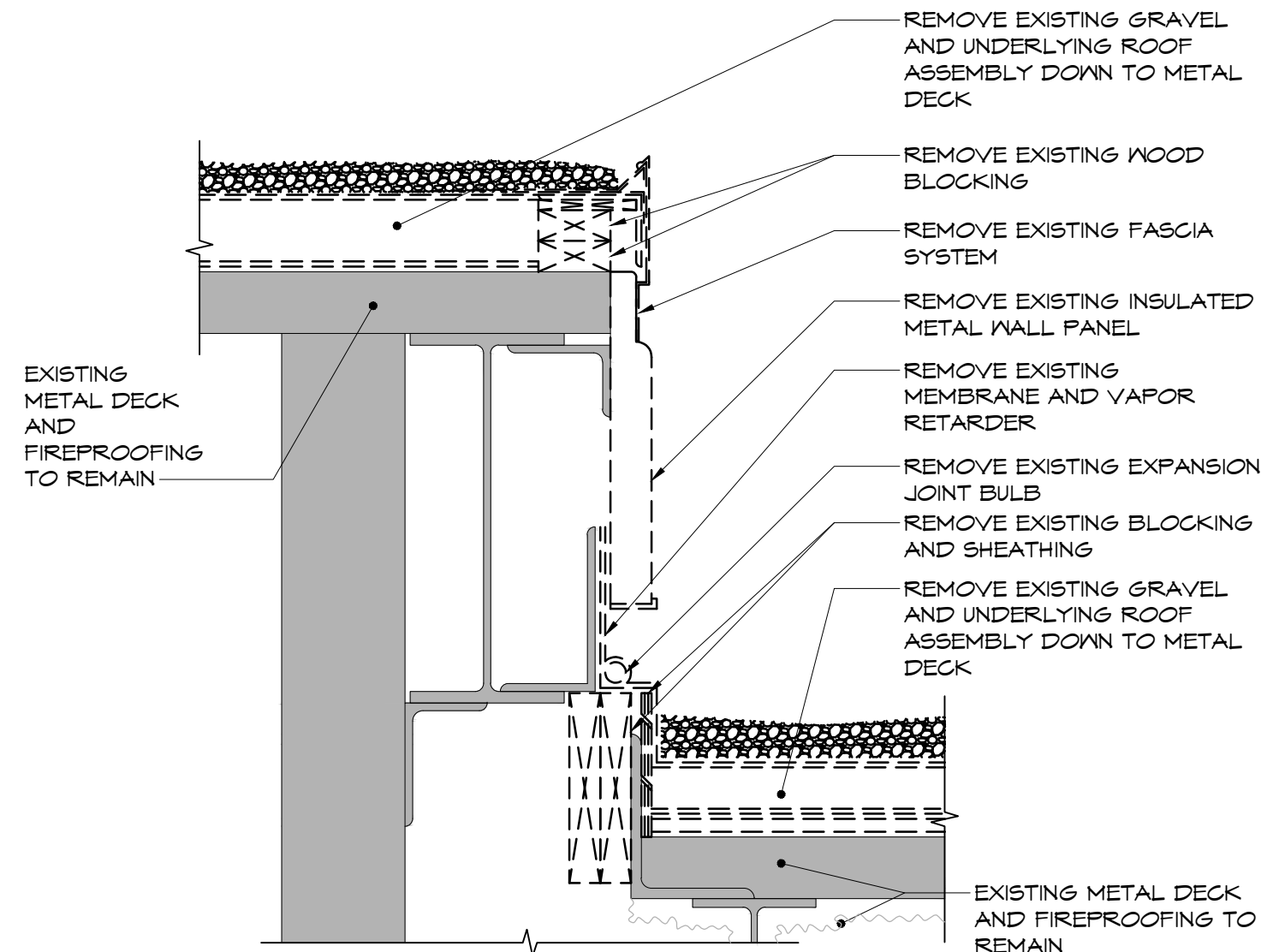
10 ROOF AREA 001 - AHU STAIR MODIFICATION
SCALE: 1 1/2" = 1'-0"



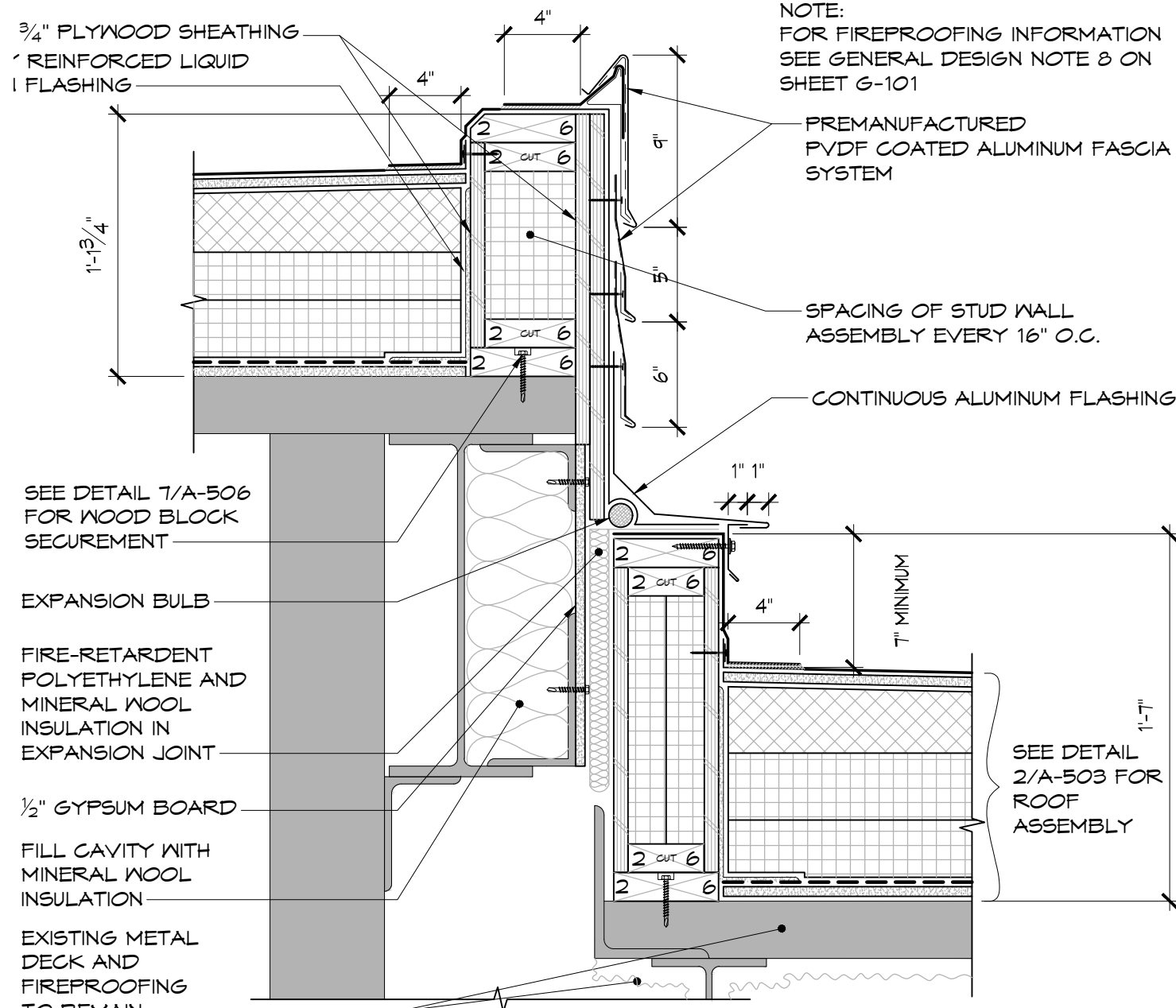
1 ROOF AREA 001 + 007 - SKYIGHT REMOVAL SECTION
SCALE: 1 1/2" = 1'-0"



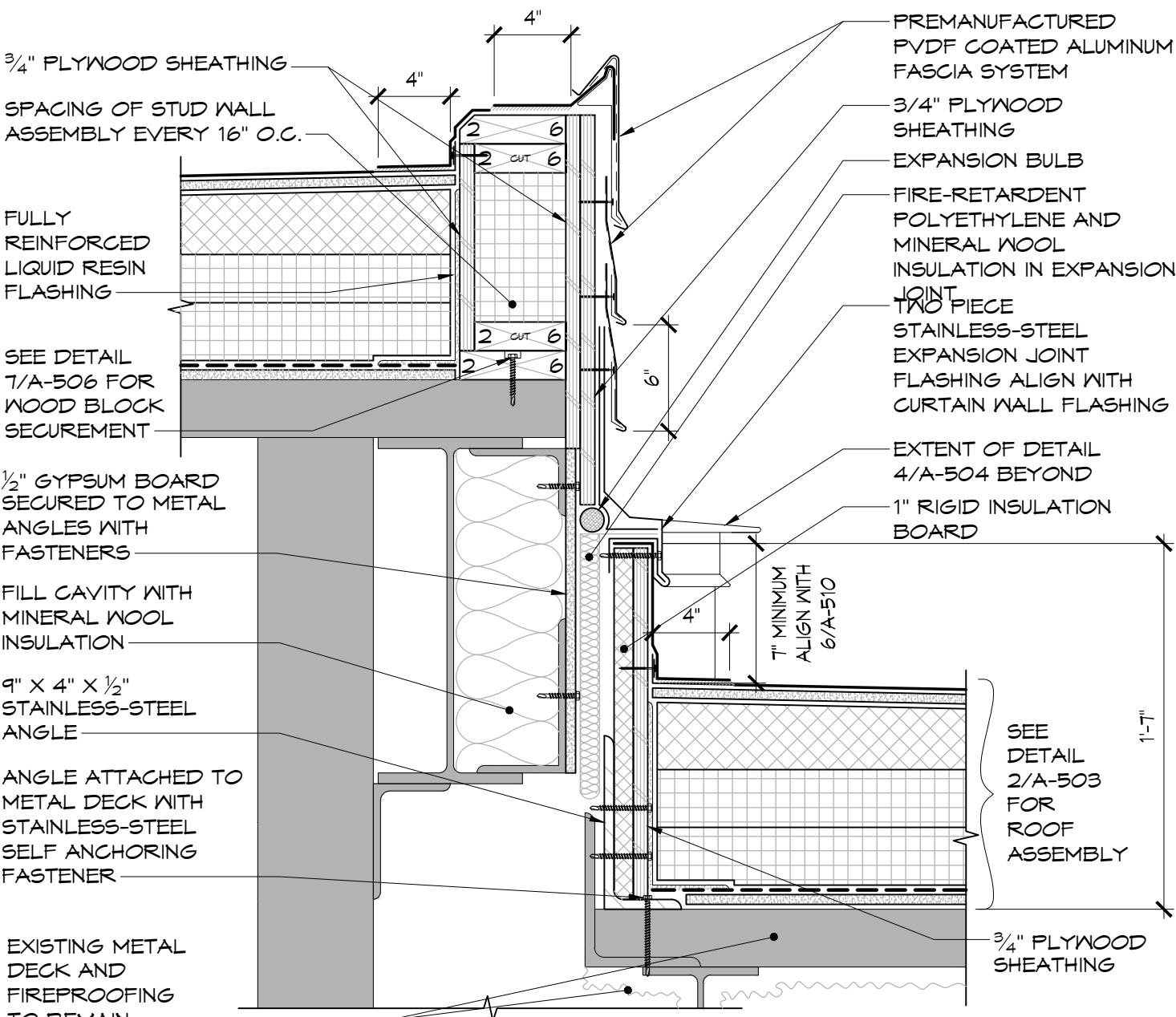
2 ROOF AREA 001 + 007 - SKYLIGHT SECTION
SCALE: 1 1/2" = 1'-0"



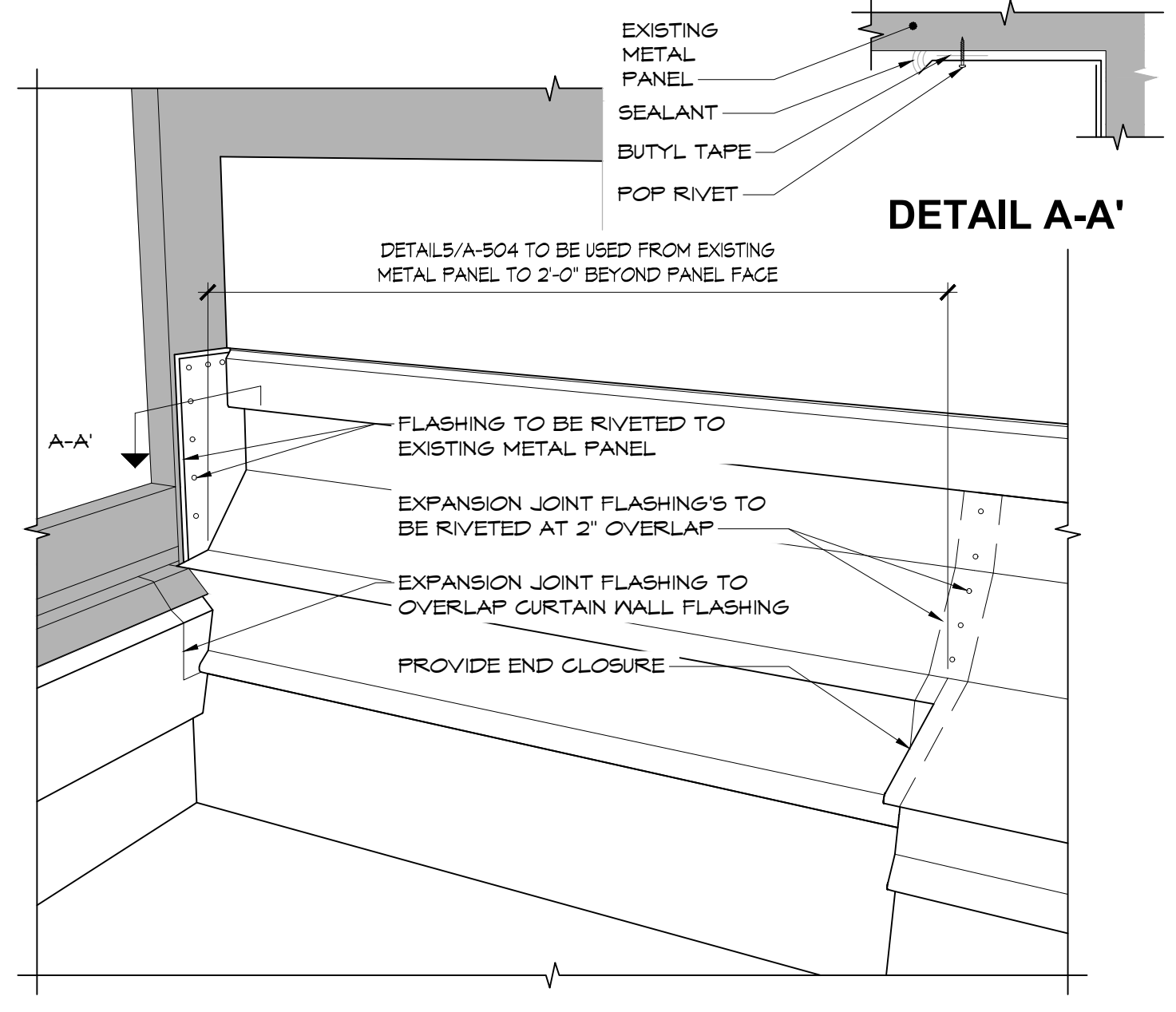
3 ROOF AREA 001 TO 007 - FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



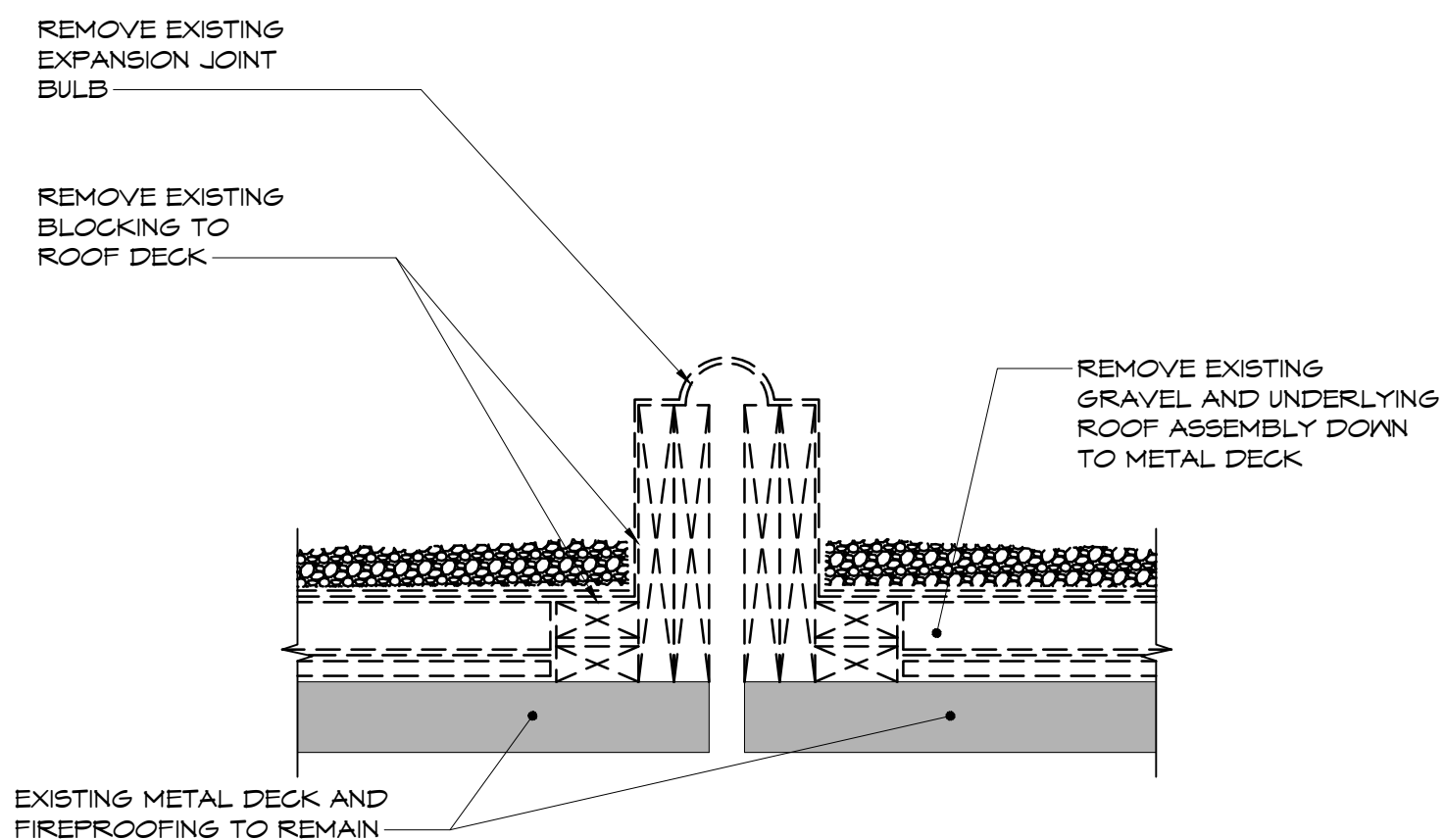
4 ROOF AREA 001 TO 007 - FLASHING
SCALE: 1 1/2" = 1'-0"



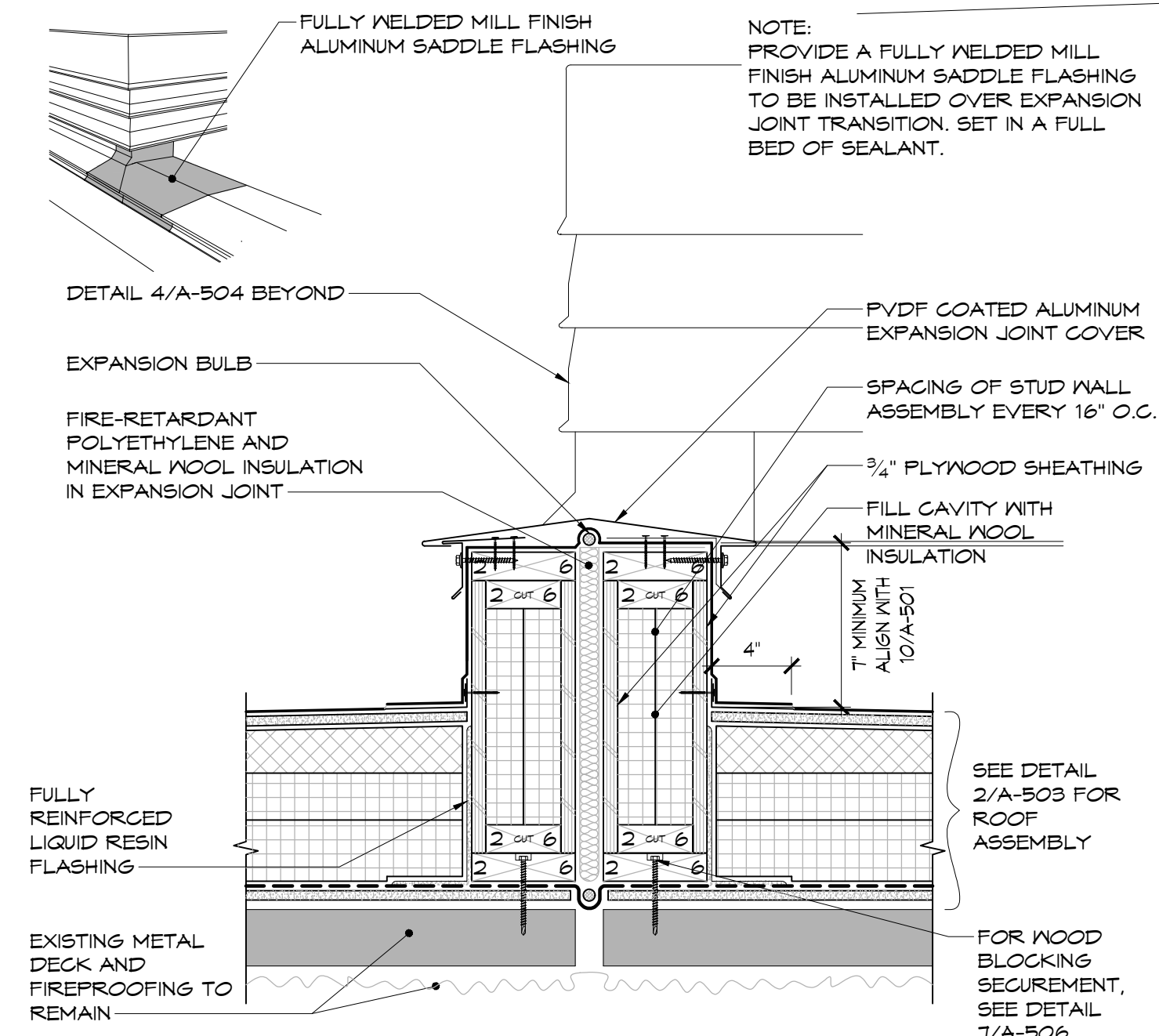
5 ROOF AREA 001 TO 007 - FLASHING AT WALL
SCALE: 1 1/2" = 1'-0"



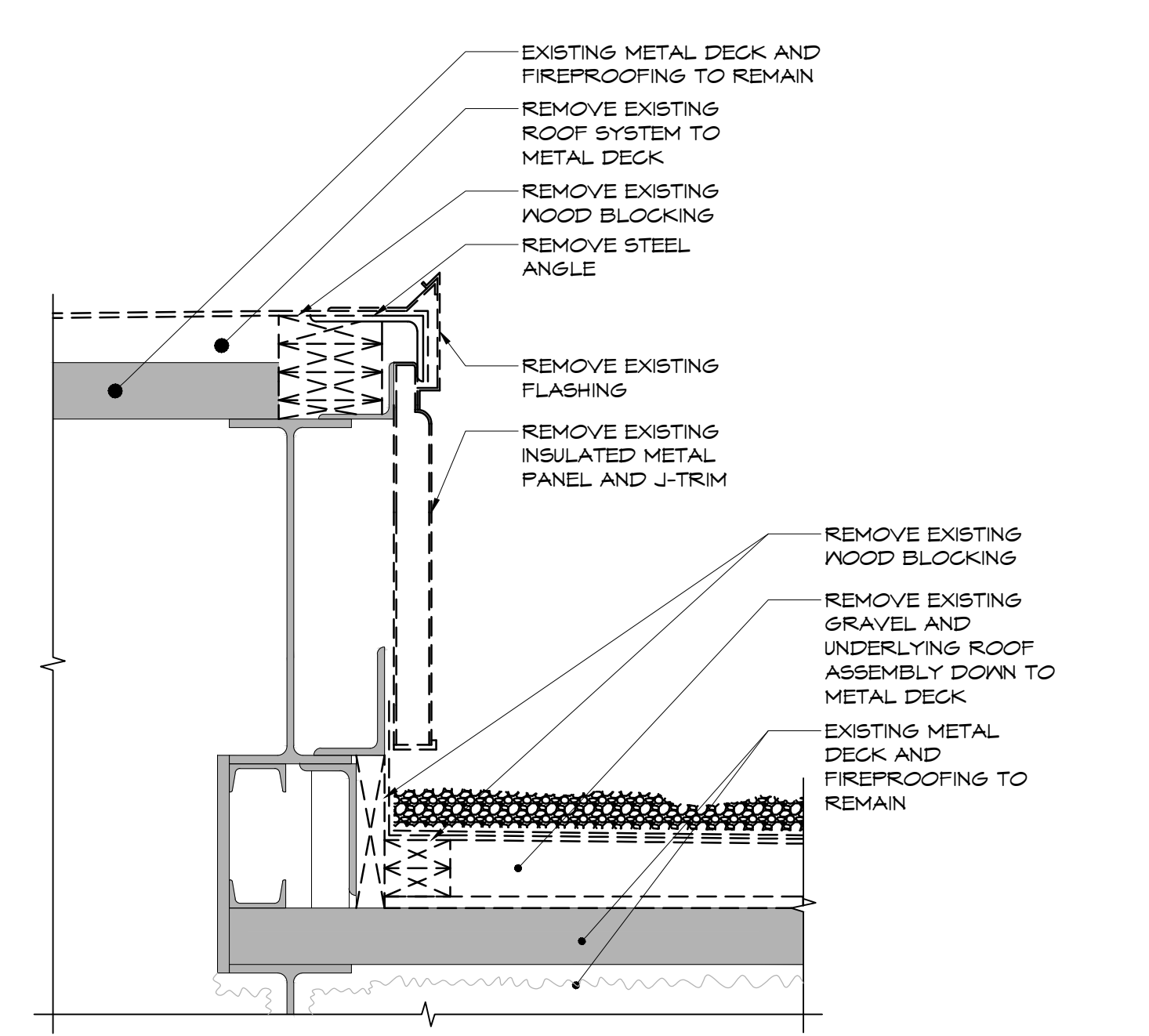
6 ROOF AREA 001 TO 007 - FLASHING AXONOMETRIC
SCALE: 1 1/2" = 1'-0"



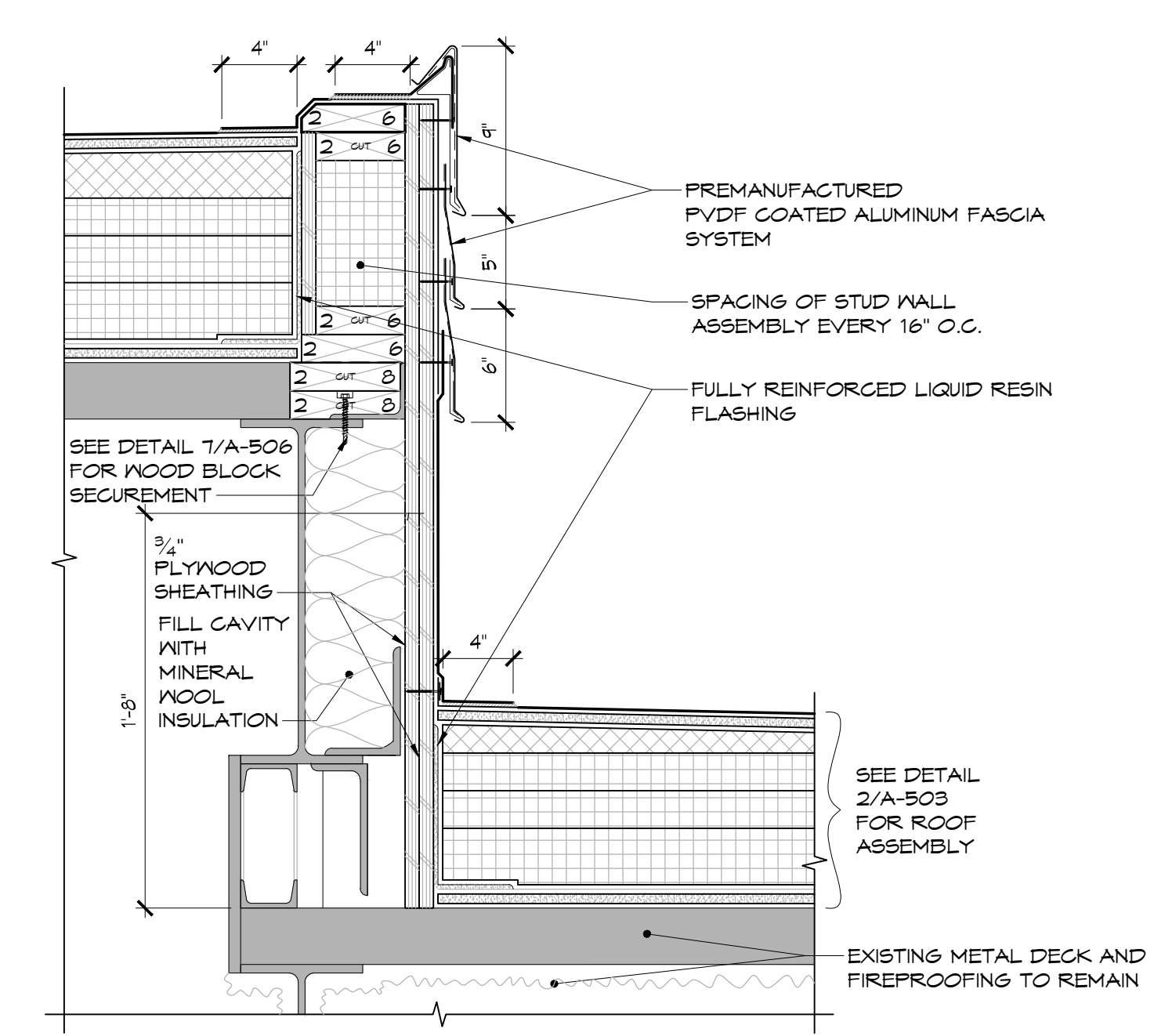
7 ROOF AREA 001 TO 001B - EXPANSION JOINT REM.
SCALE: 1 1/2" = 1'-0"



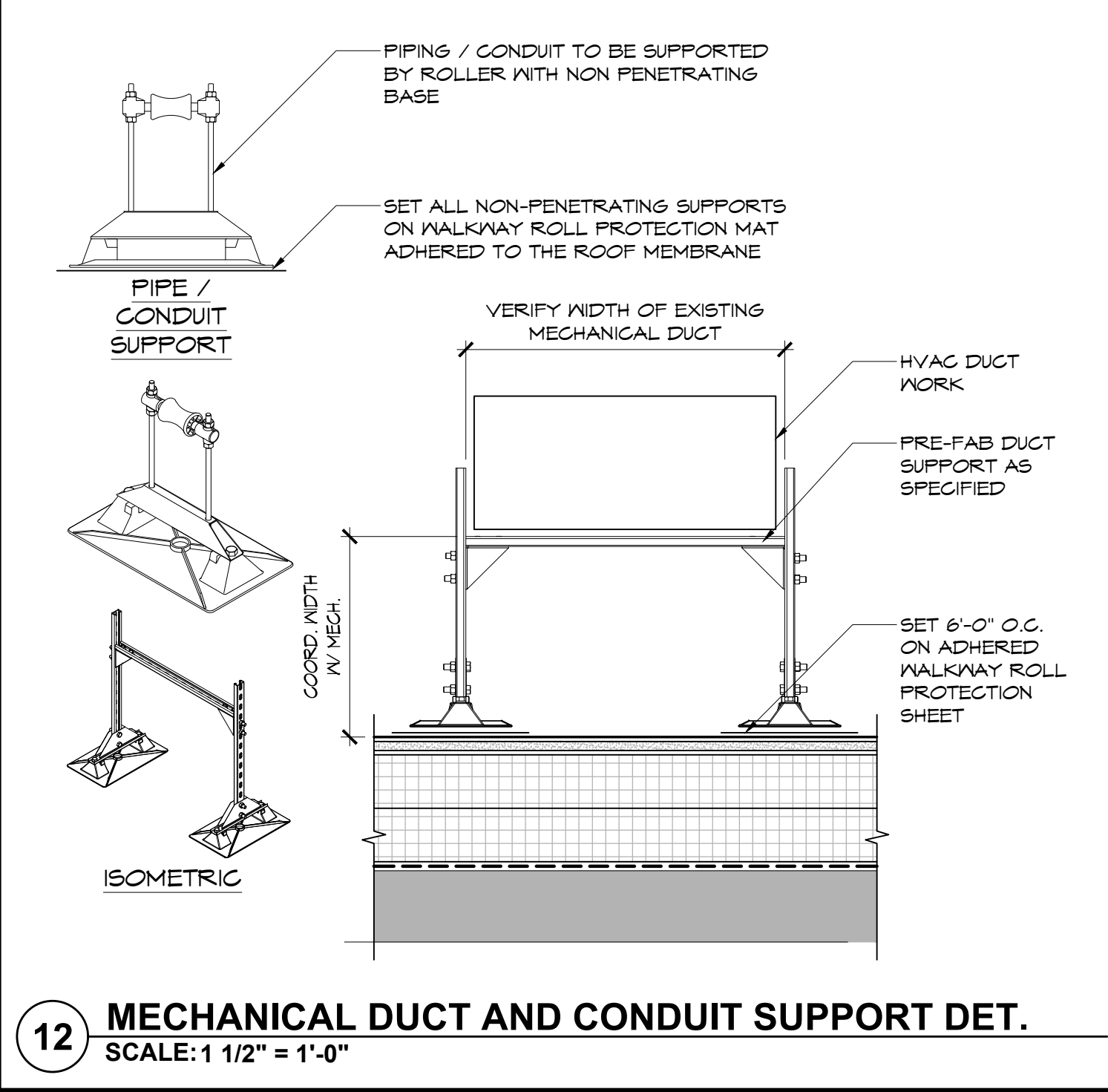
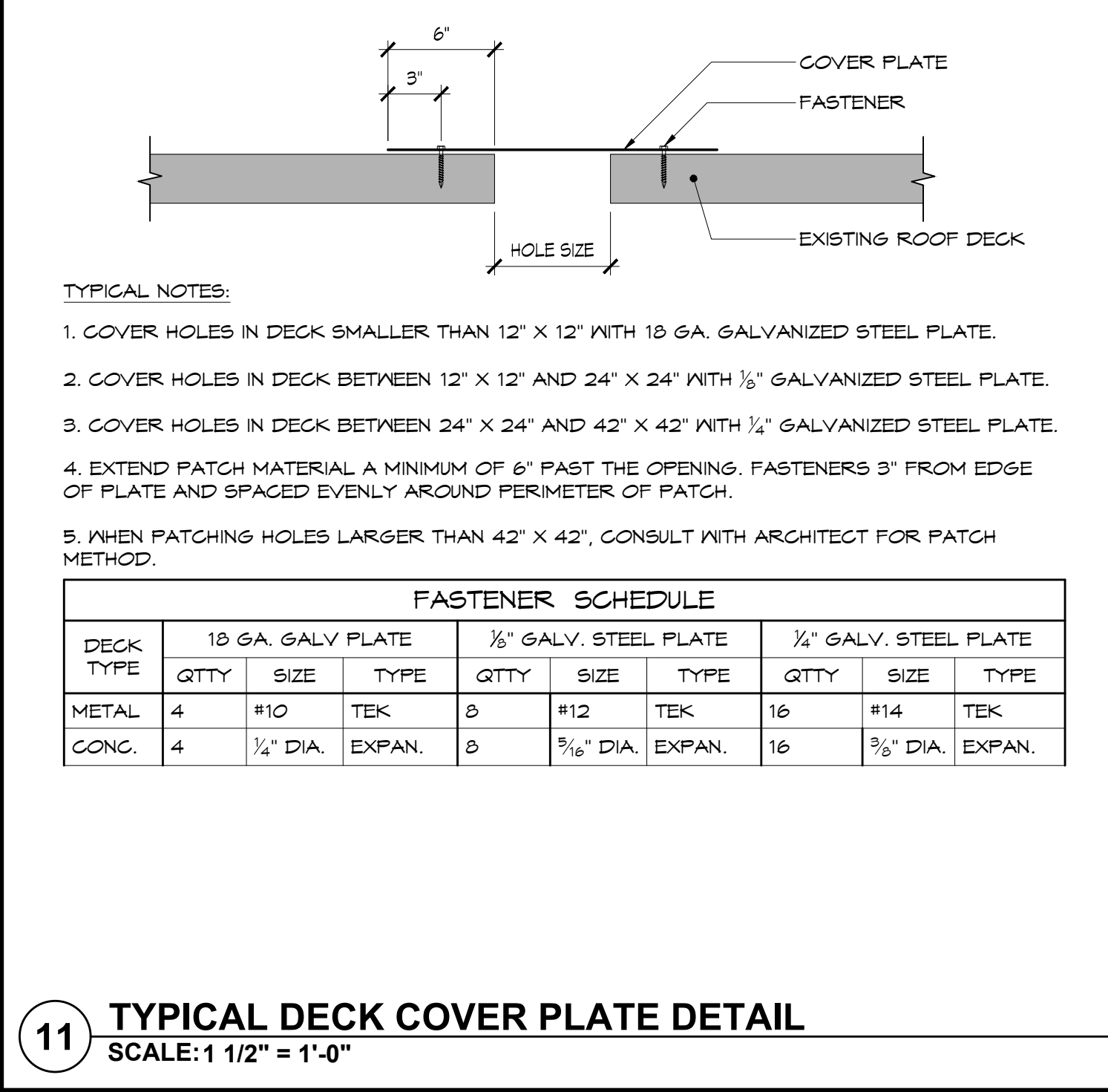
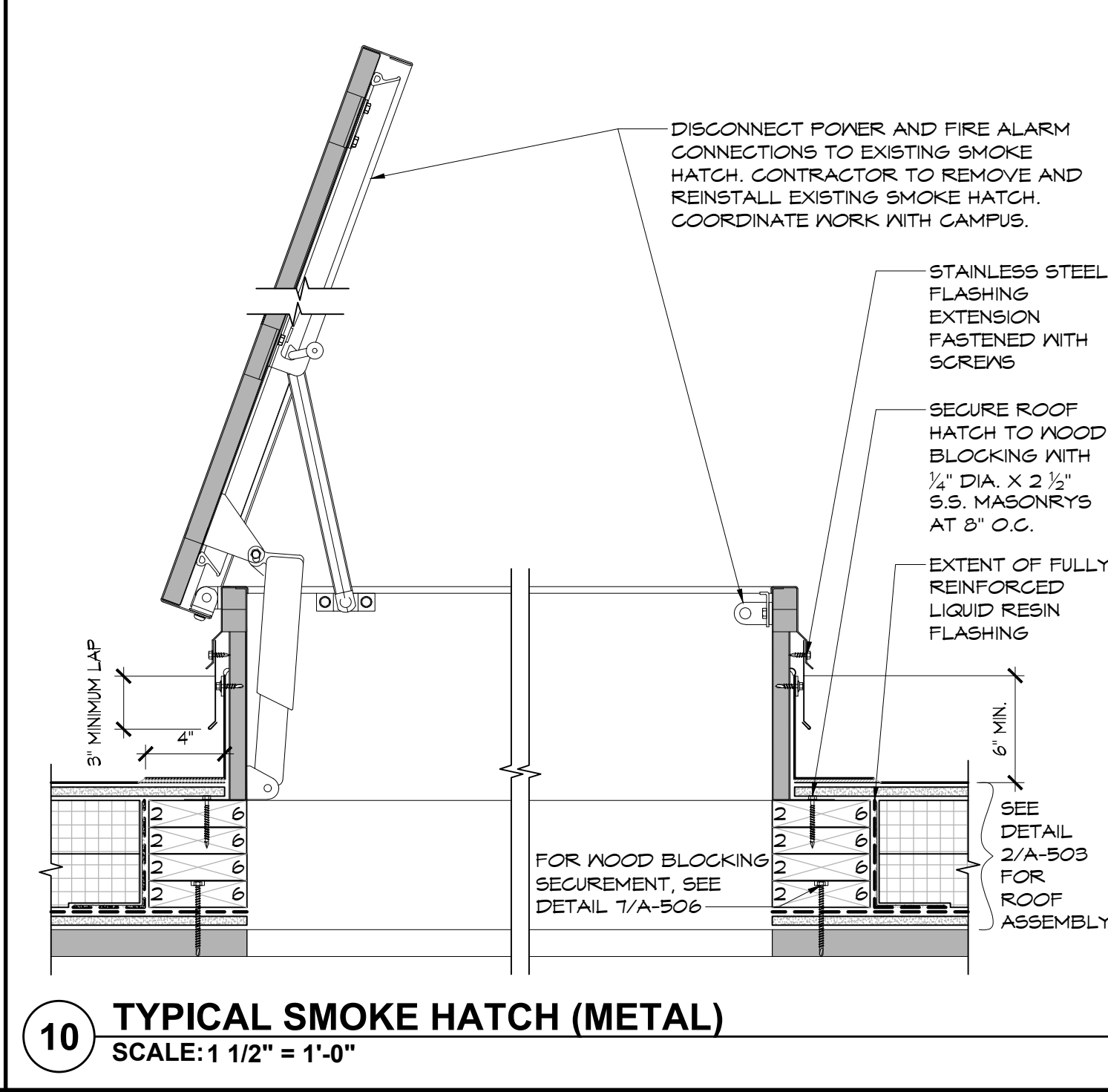
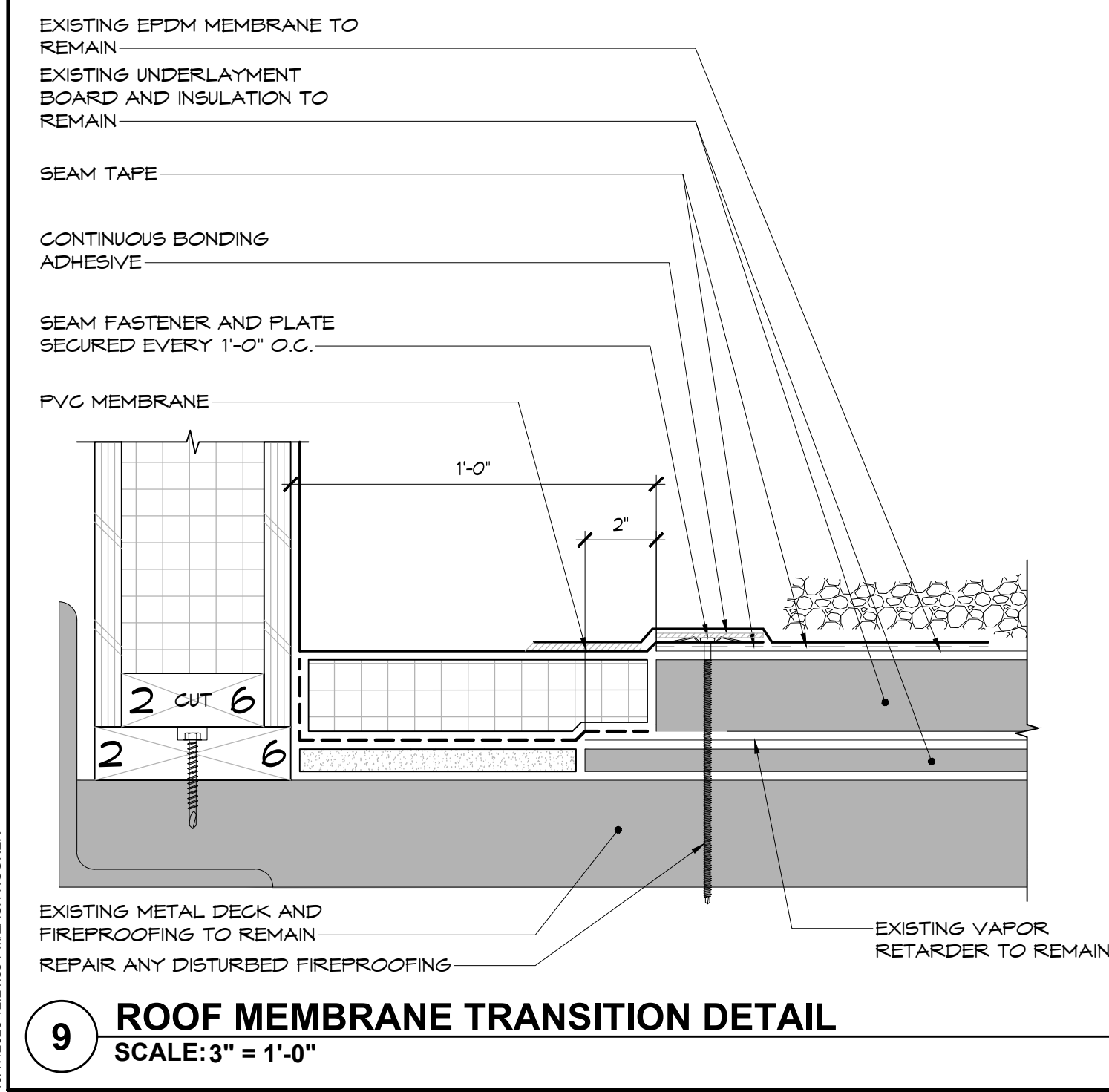
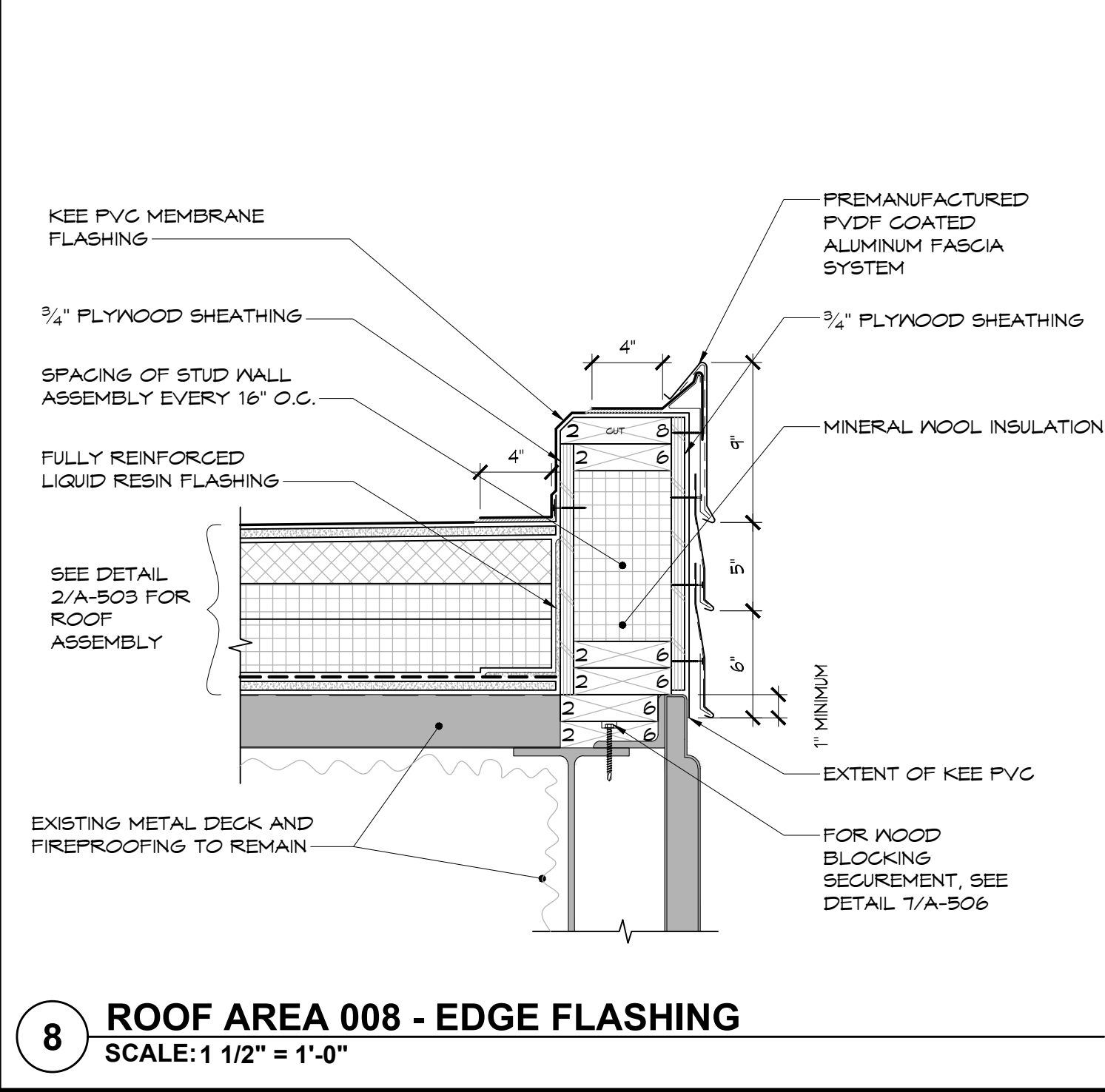
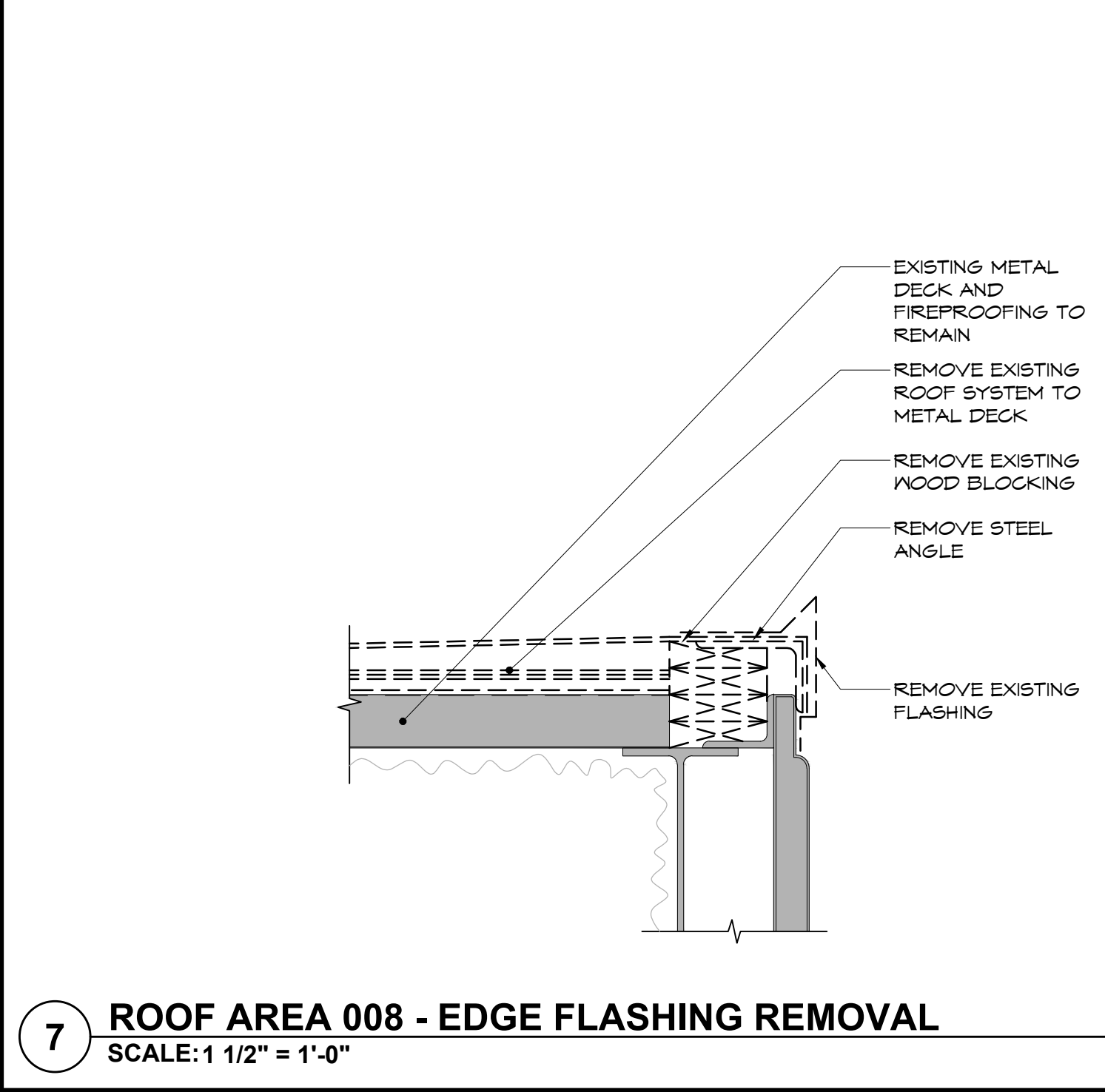
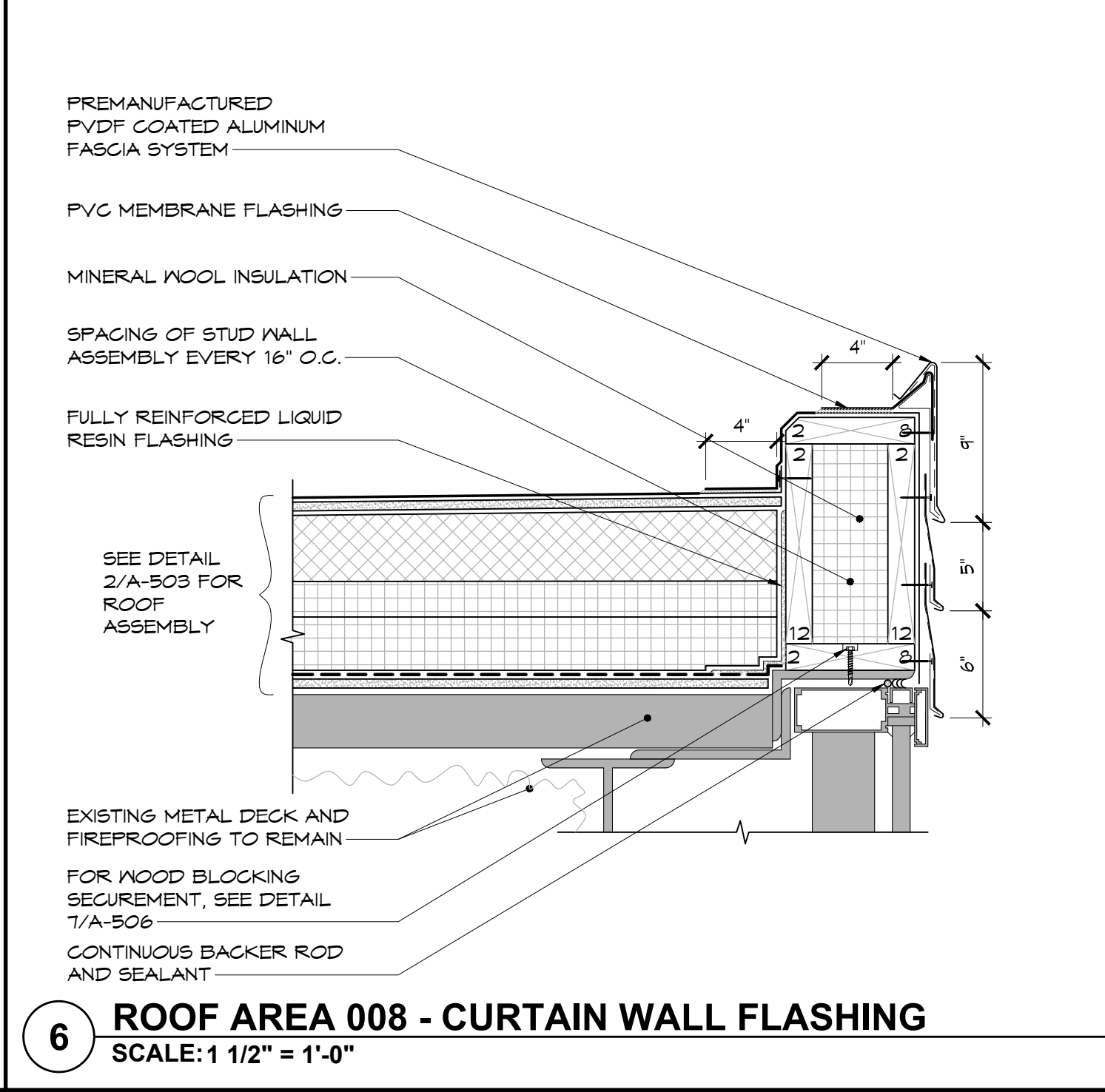
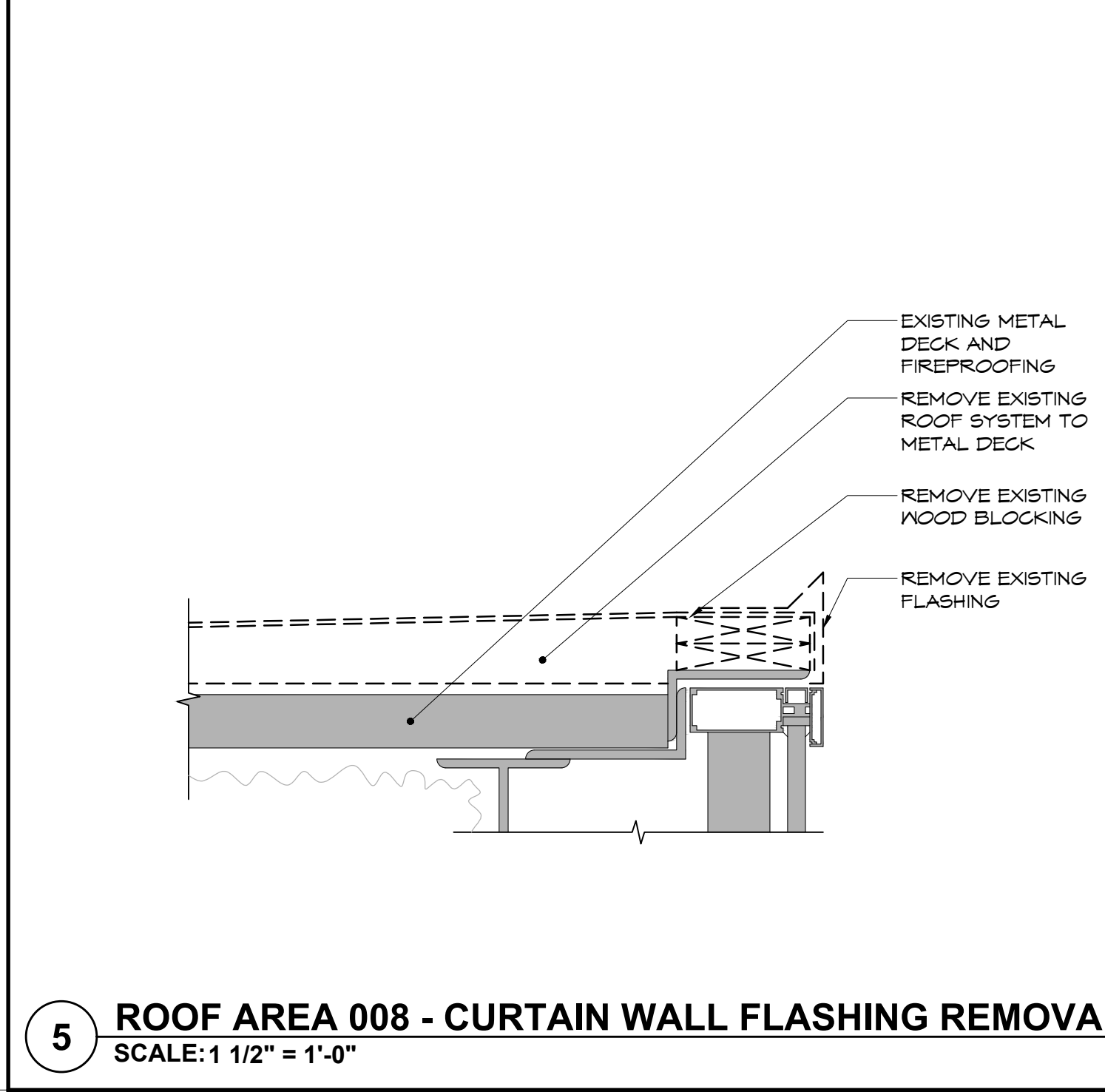
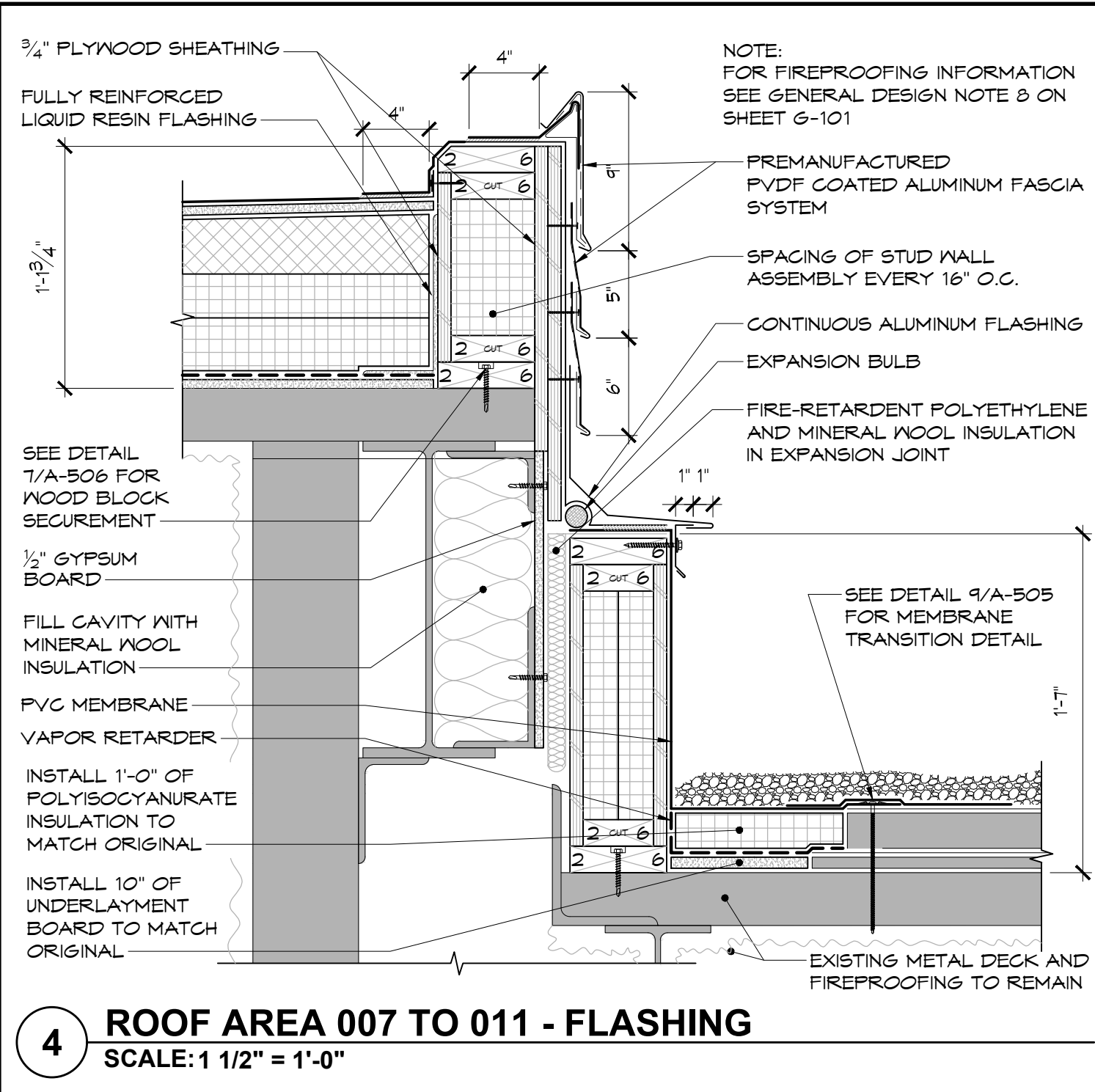
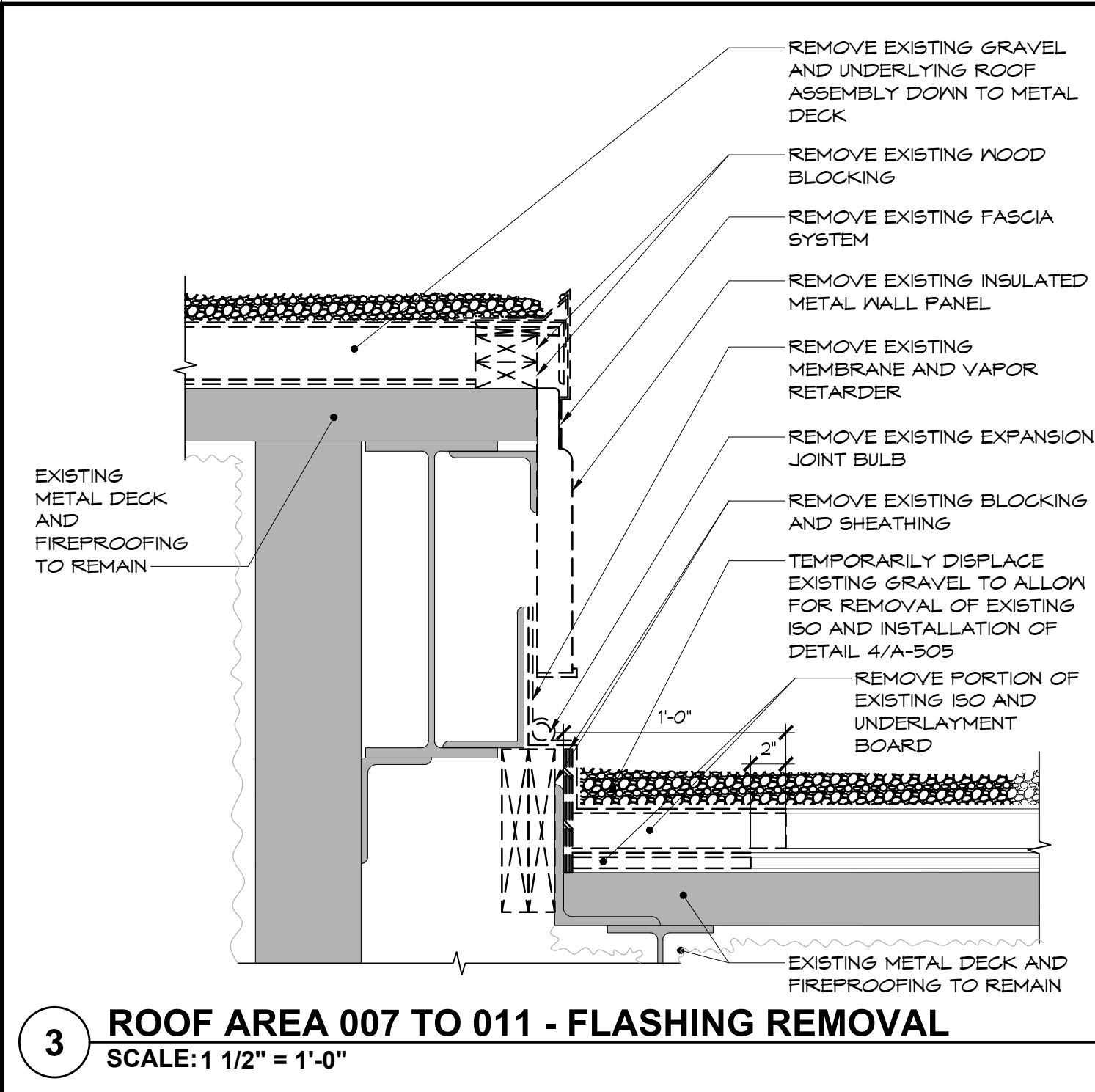
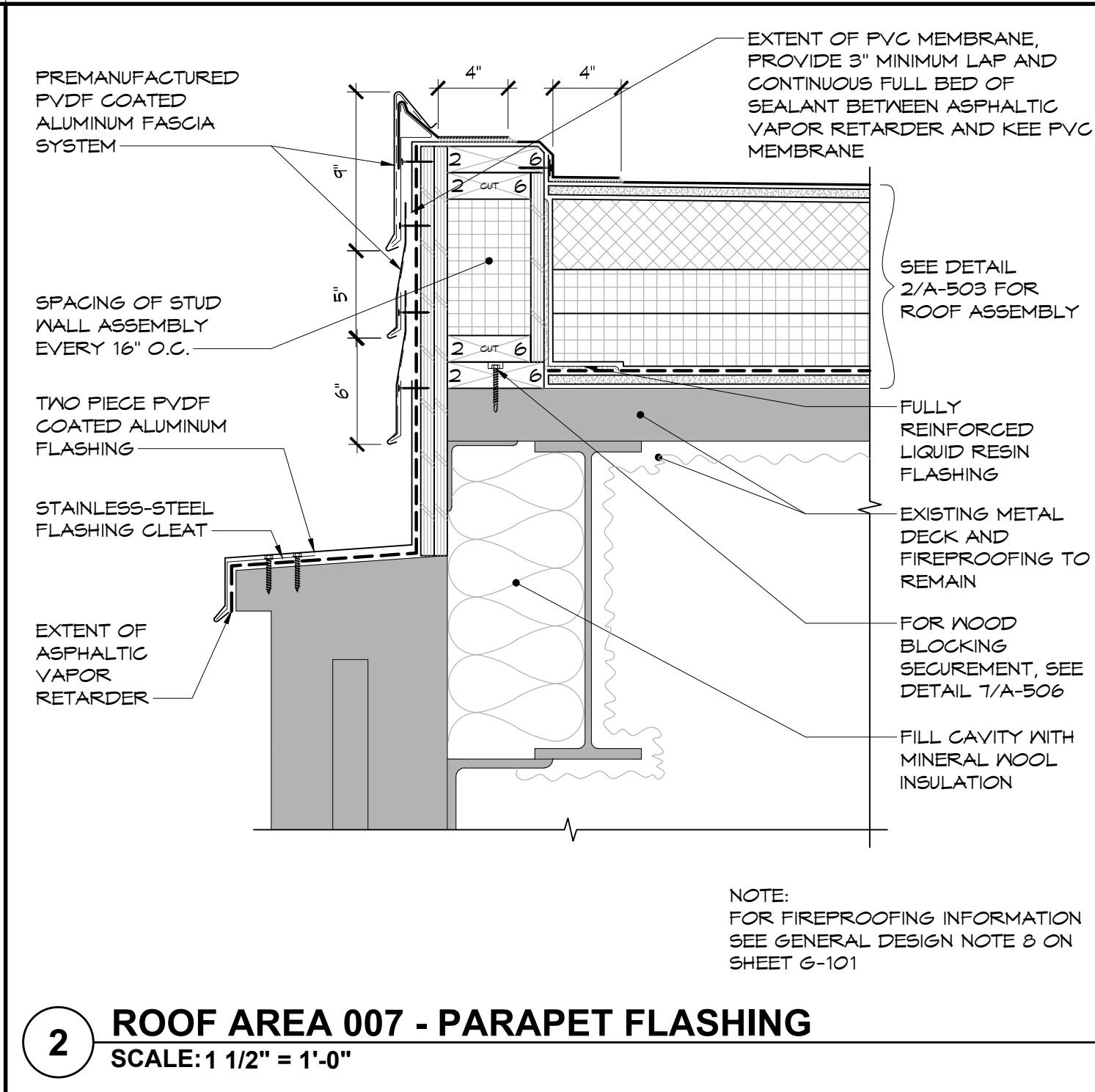
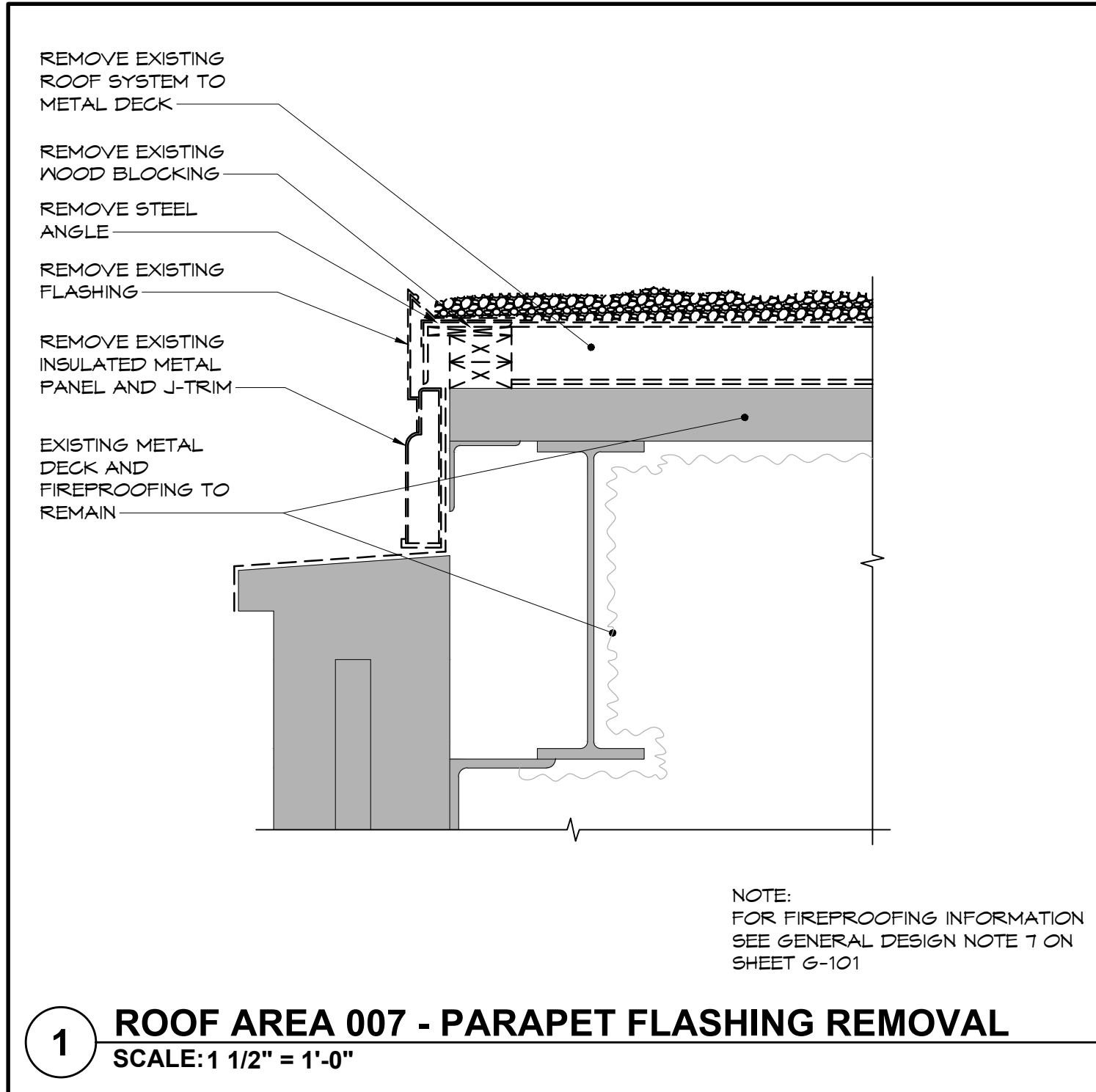
8 ROOF AREA 001 TO 001B - EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



9 ROOF AREA 001B TO 007 - FLASHING REMOVAL
SCALE: 1 1/2" = 1'-0"



10 ROOF AREA 001B TO 007 - FLASHING
SCALE: 1 1/2" = 1'-0"



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REGISTERED ARCHITECT
DOUGLAS K. ARNETT
STATE OF NEW YORK
032659
REGISTRATION EXPIRES: 08/31/2028

It is a violation of the New York State Education Law, Article 145, Sec. 7209, for any person unless he is acting under the direction of a licensed professional Architect, Engineer or Land Surveyor to alter an item in any way. If an item bearing the seal of an Architect, Engineer or Land Surveyor is altered, the altering Architect, Engineer or Land Surveyor shall affix to the item his seal and the notation "altered by," followed by his signature and the date of such alteration, and a specific description of the alteration.

PROJECT
NORTH

CONSULTANT

PROJECT
**CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1**
930 CAMPUS ROAD
ITHACA, NY 14853
CLIENT PROJECT NO.: SUCF 191026

PROJECT NUMBER
319-24-032

The Contractor shall verify all dimensions and notations in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

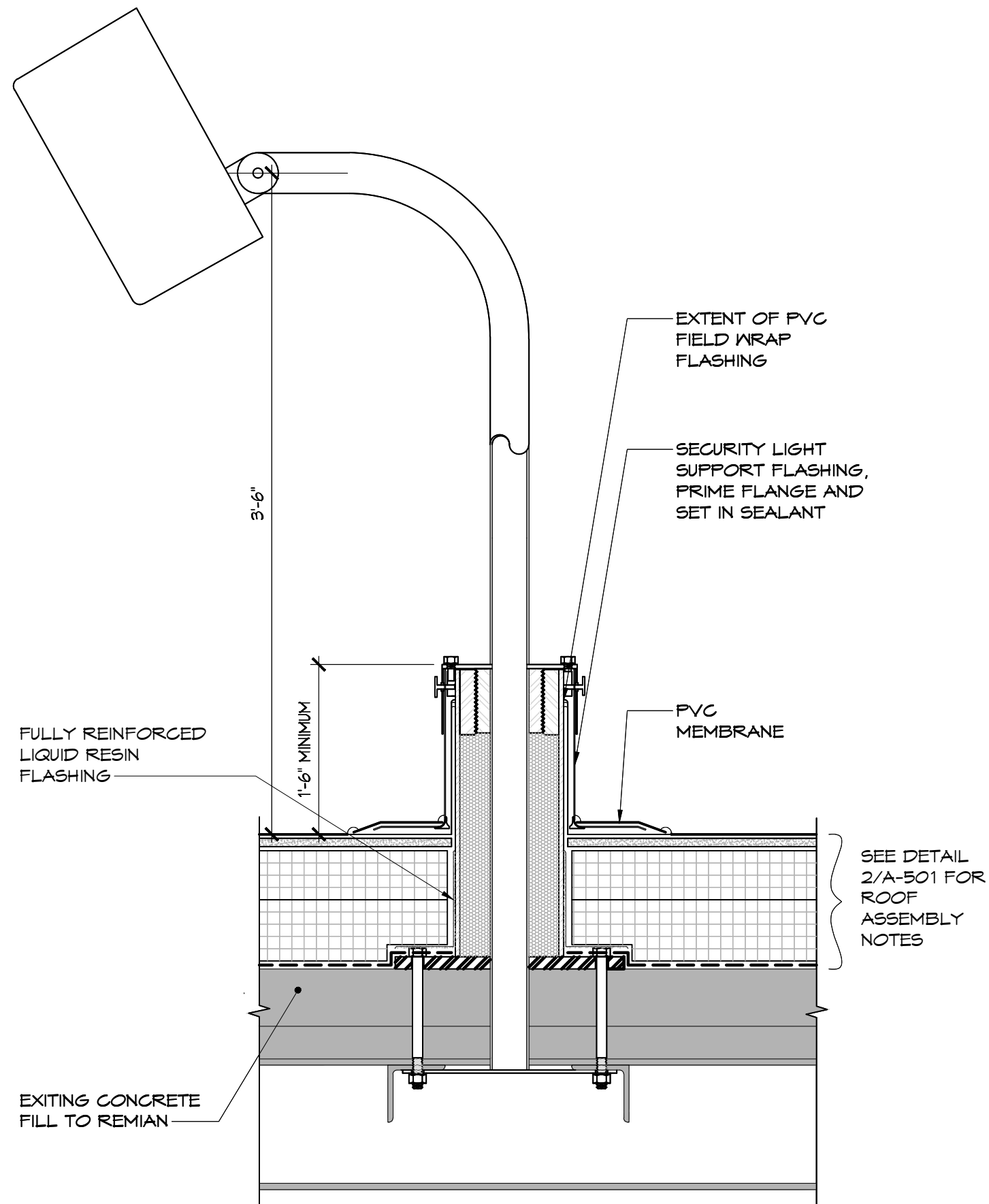
MARK	DATE	DESCRIPTION

DRAWN	CHECKED
ZEH	DKA
DATE	SCALE
10/10/2025	AS NOTED

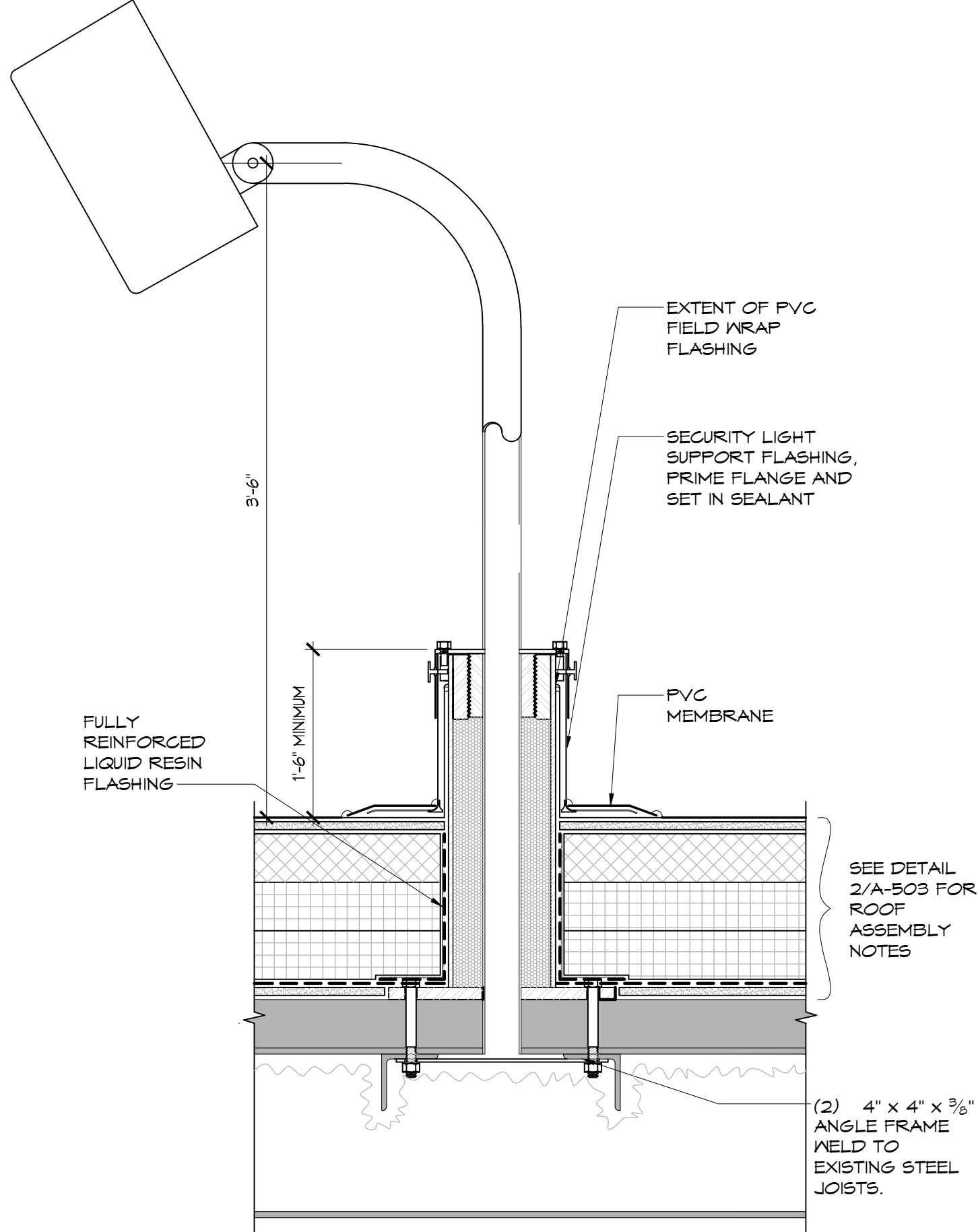
SHEET TITLE
DETAILS

SHEET NUMBER
A-505

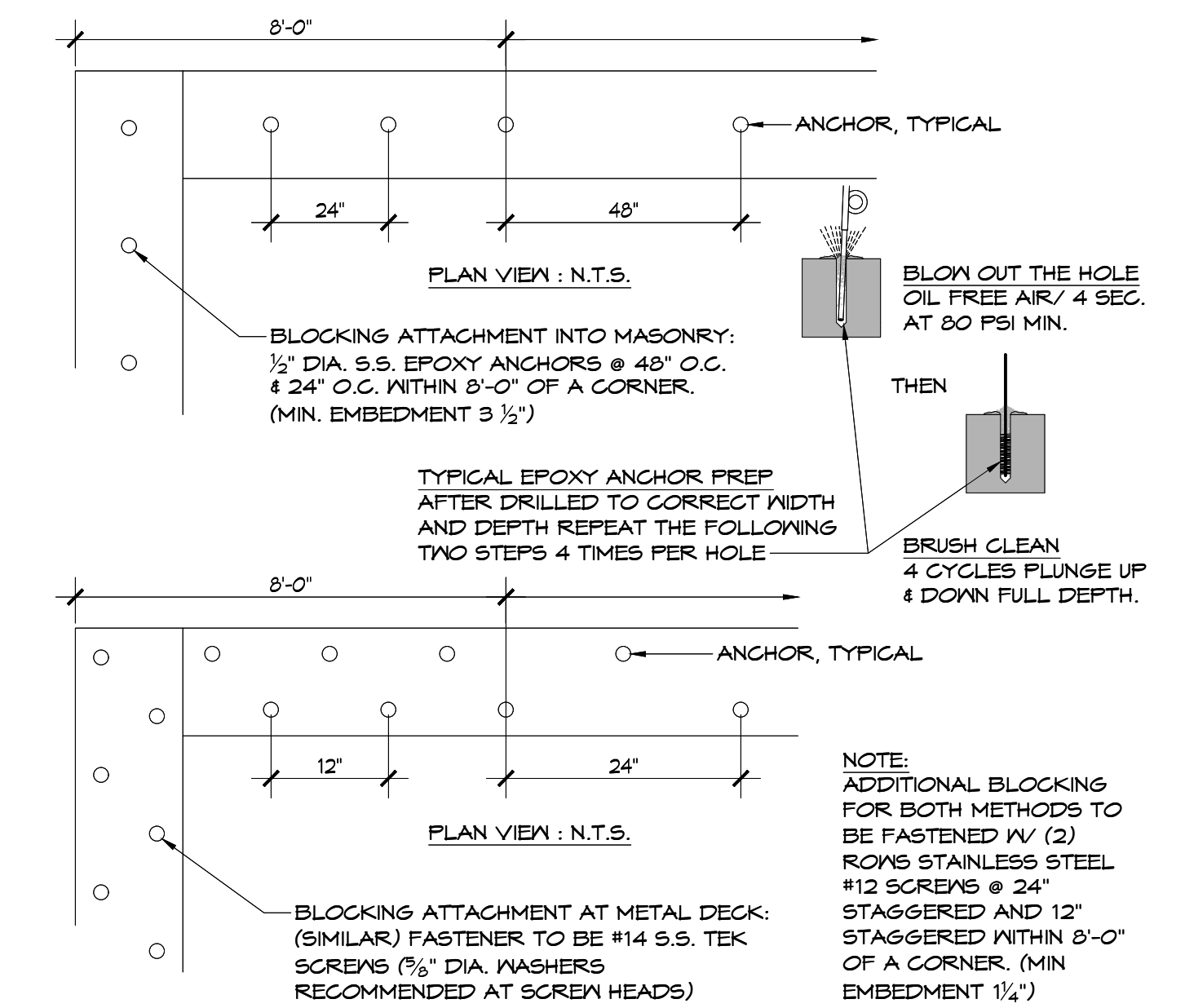
SHEET
16
OF
25



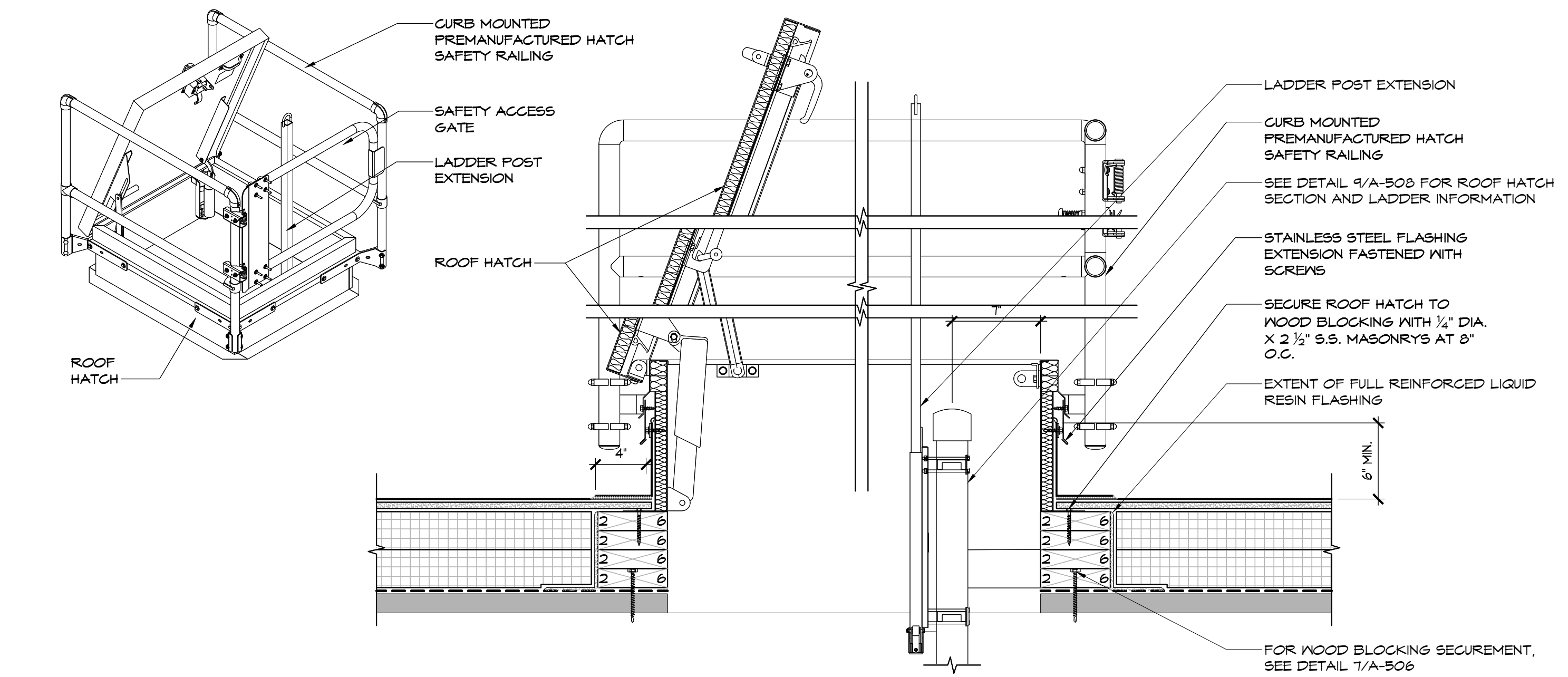
1 SECURITY LIGHT SUPPORT (CONCRETE)
SCALE: 1 1/2" = 1'-0"



2 SECURITY LIGHT SUPPORT (METAL)
SCALE: 1 1/2" = 1'-0"

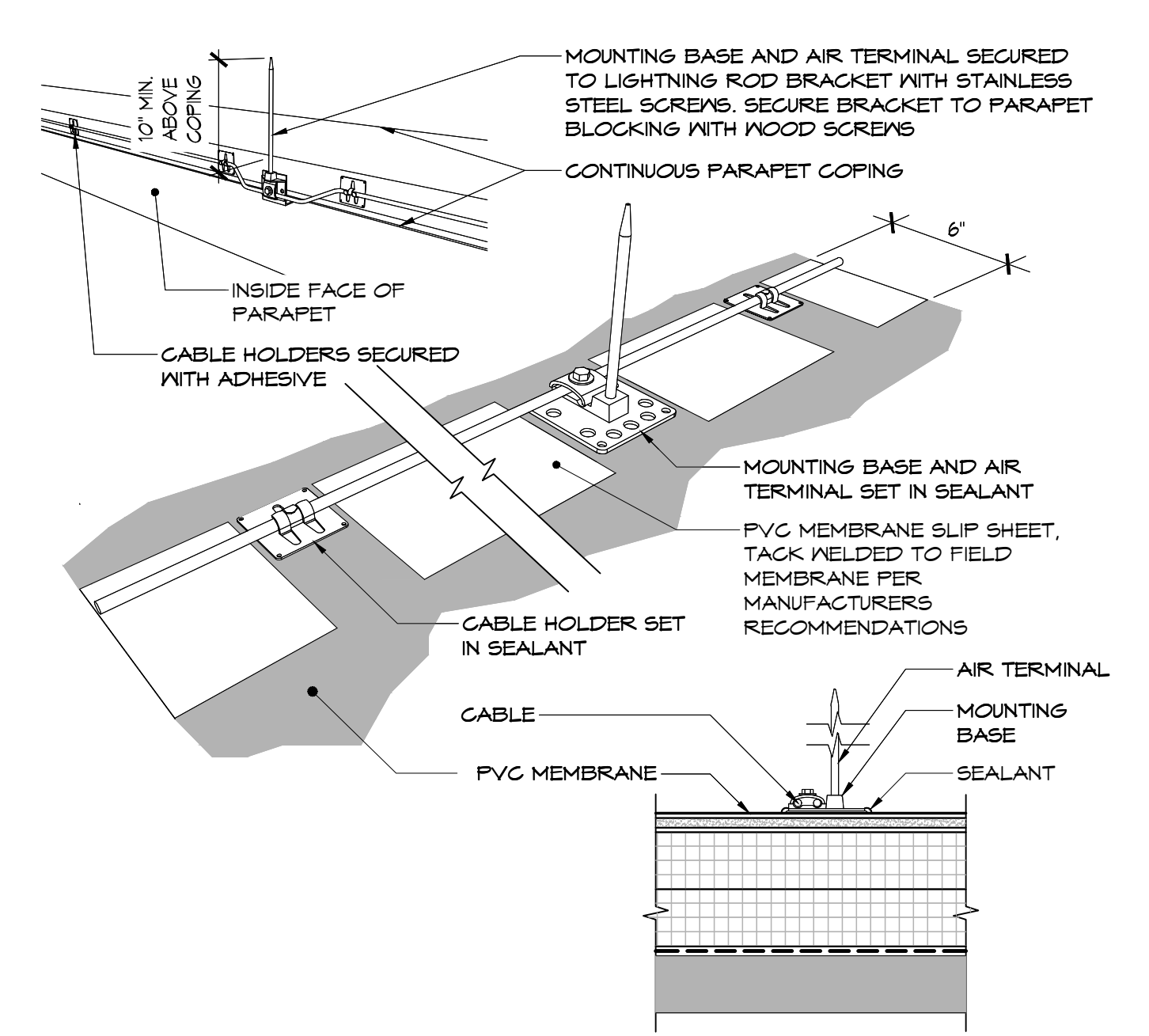


7 TYPICAL WOOD BLOCKING FASTENING DETAIL
SCALE: 1 1/2" = 1'-0"



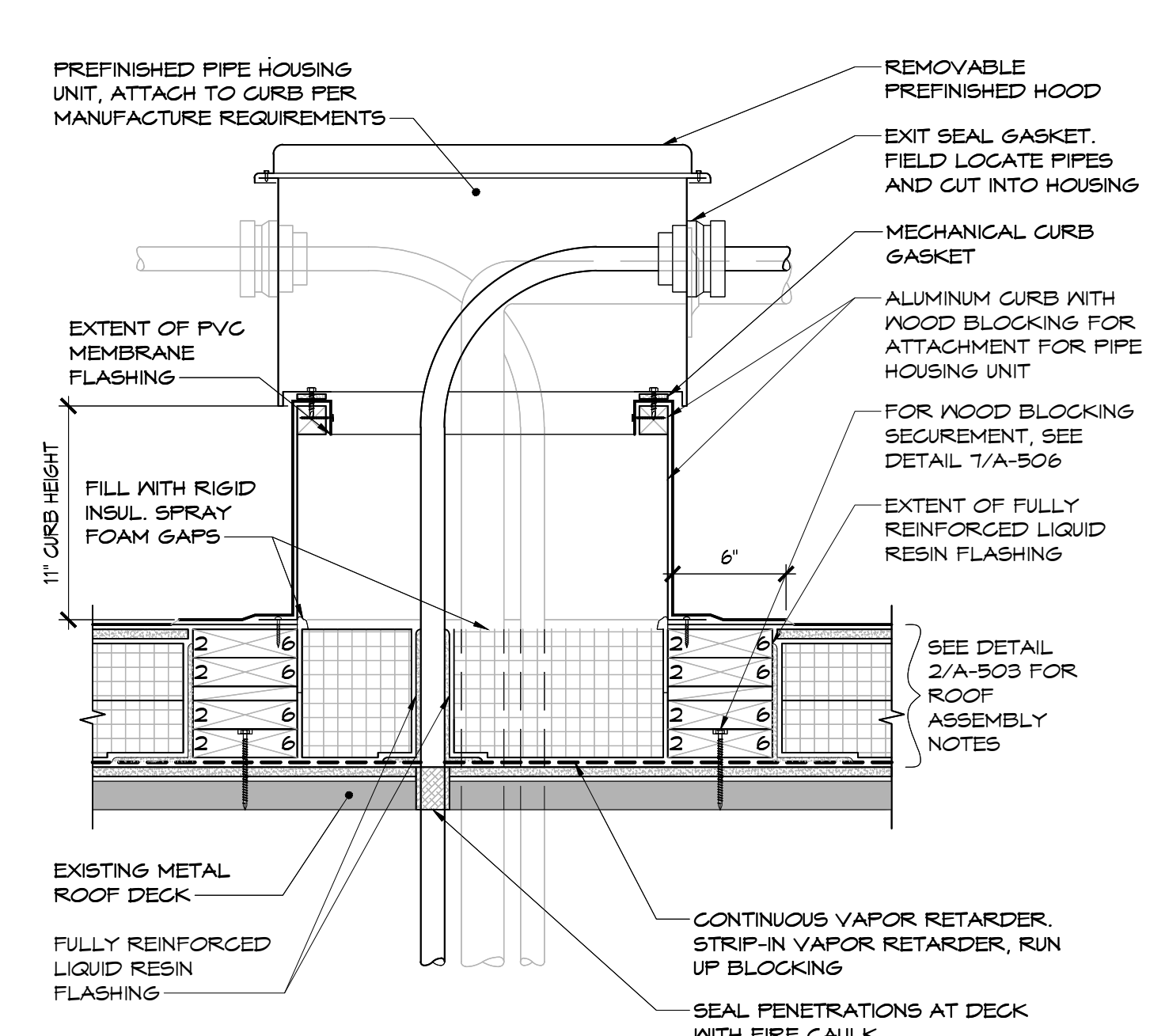
8 TYPICAL ROOF HATCH DETAIL AND ISOMETRIC
SCALE: 1 1/2" = 1'-0"

3 THRU-ROOF LIGHTNING PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"



5 TYPICAL LIGHTNING PROTECTION SYSTEM
SCALE: 1 1/2" = 1'-0"

4 TYP. PARAPET COPINT AT WALL CLOSURE DET.
SCALE: 1 1/2" = 1'-0"



6 THRU-ROOF PIPE PENETRATION DETAIL (MANUF.)
SCALE: 1 1/2" = 1'-0"



PROJECT NORTH

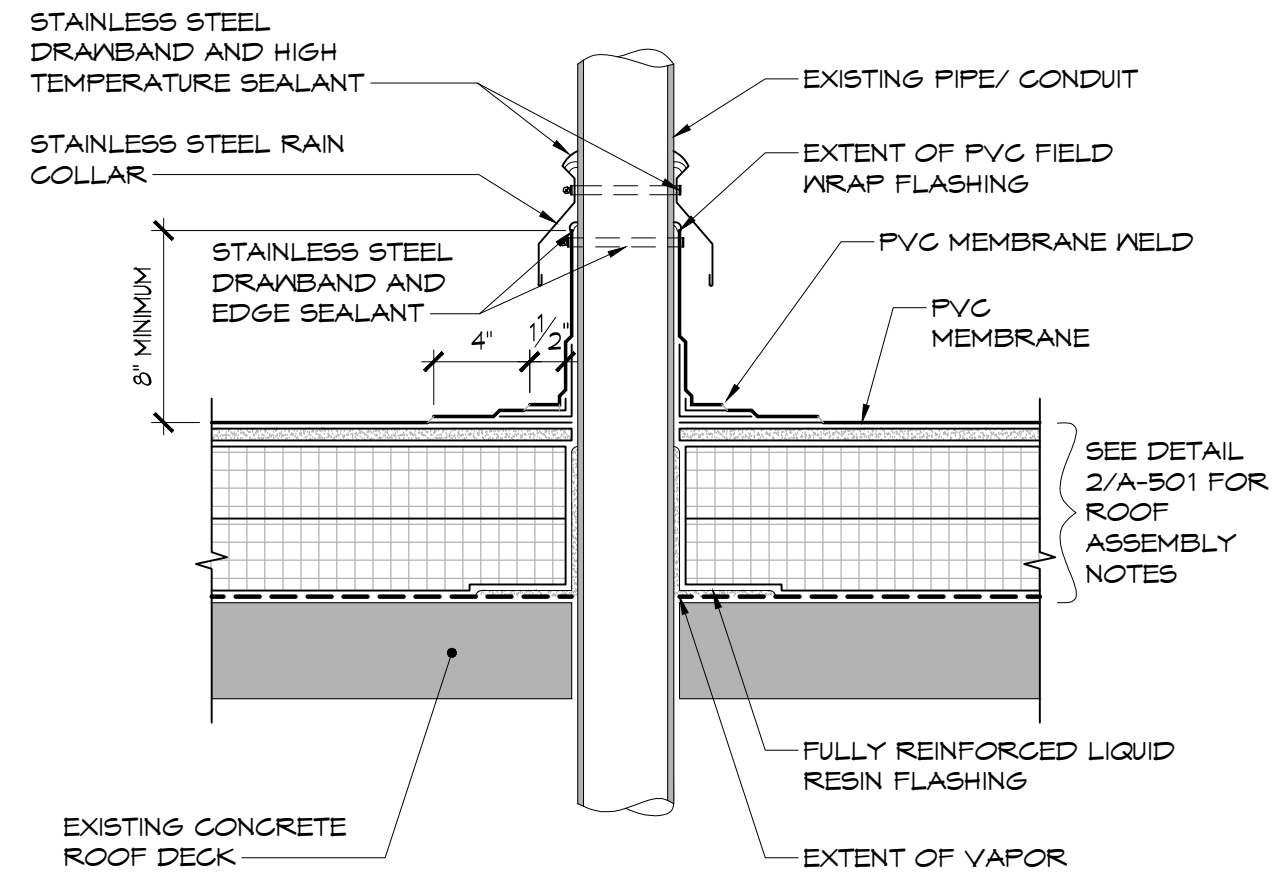
CONSULTANT

CORNELL UNIVERSITY
REPLACE ROOF - VETERINARY MEDICAL CENTER - PHASE 1
930 CAMPUS ROAD
ITHACA, NY 14853
CLIENT PROJECT NO.: SUCF 191026

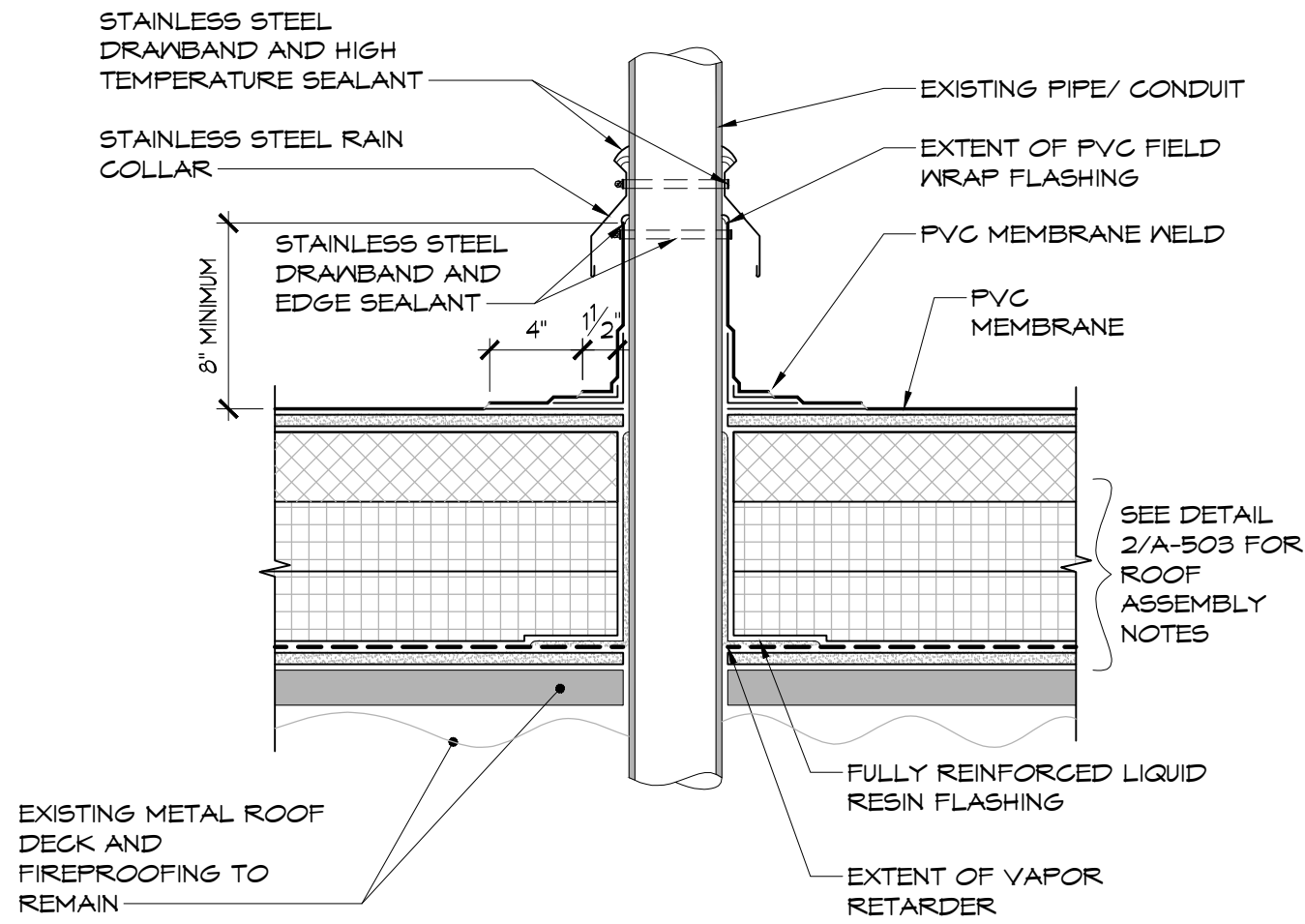
PROJECT NUMBER		
319-24-032		
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MARK	DATE	DESCRIPTION

DRAWN ZEH		CHECKED DKA
DATE 10/10/2025		SCALE AS NOTED

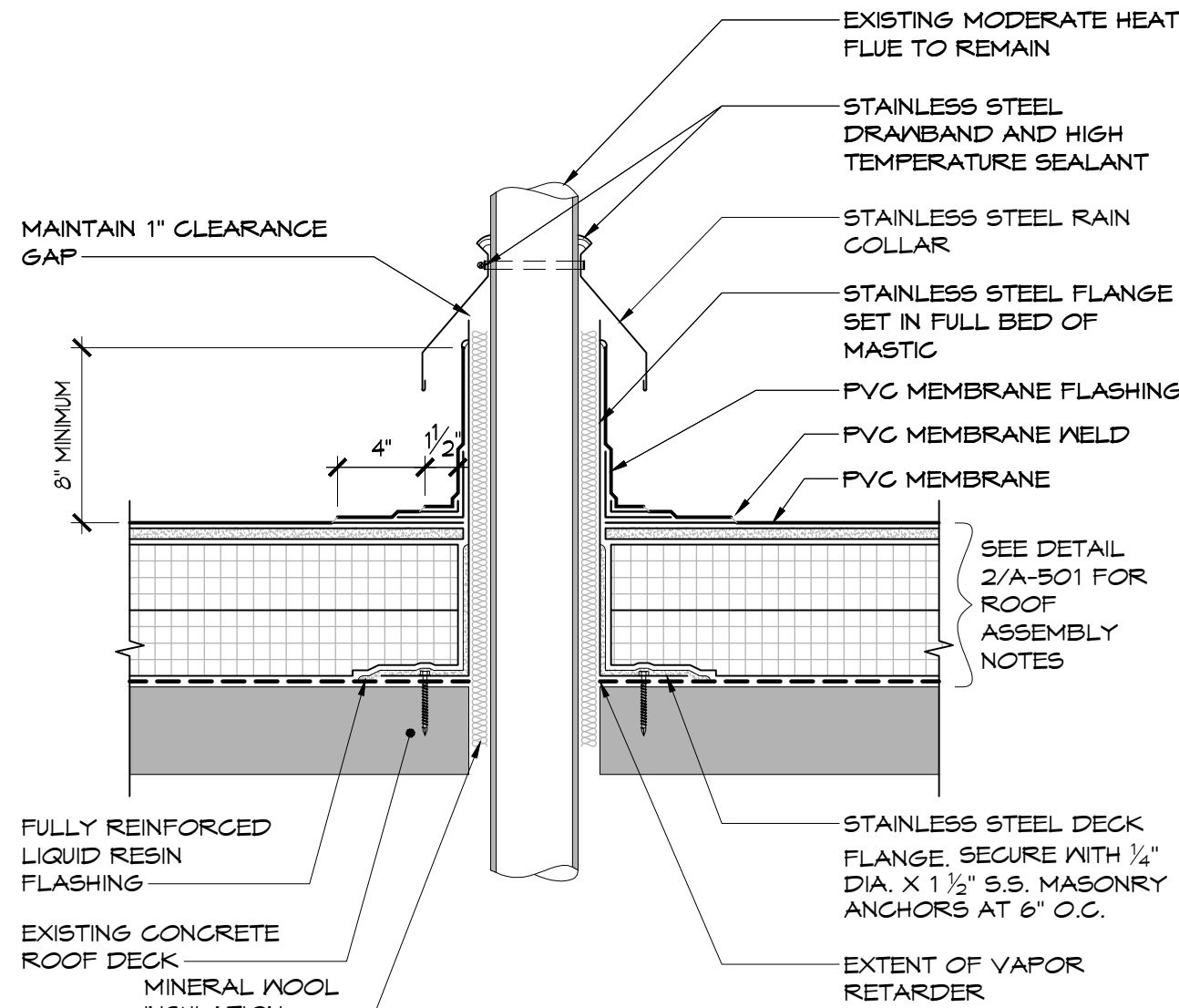
SHEET TITLE
DETAILS
SHEET NUMBER
A-506
SHEET 17 OF 25



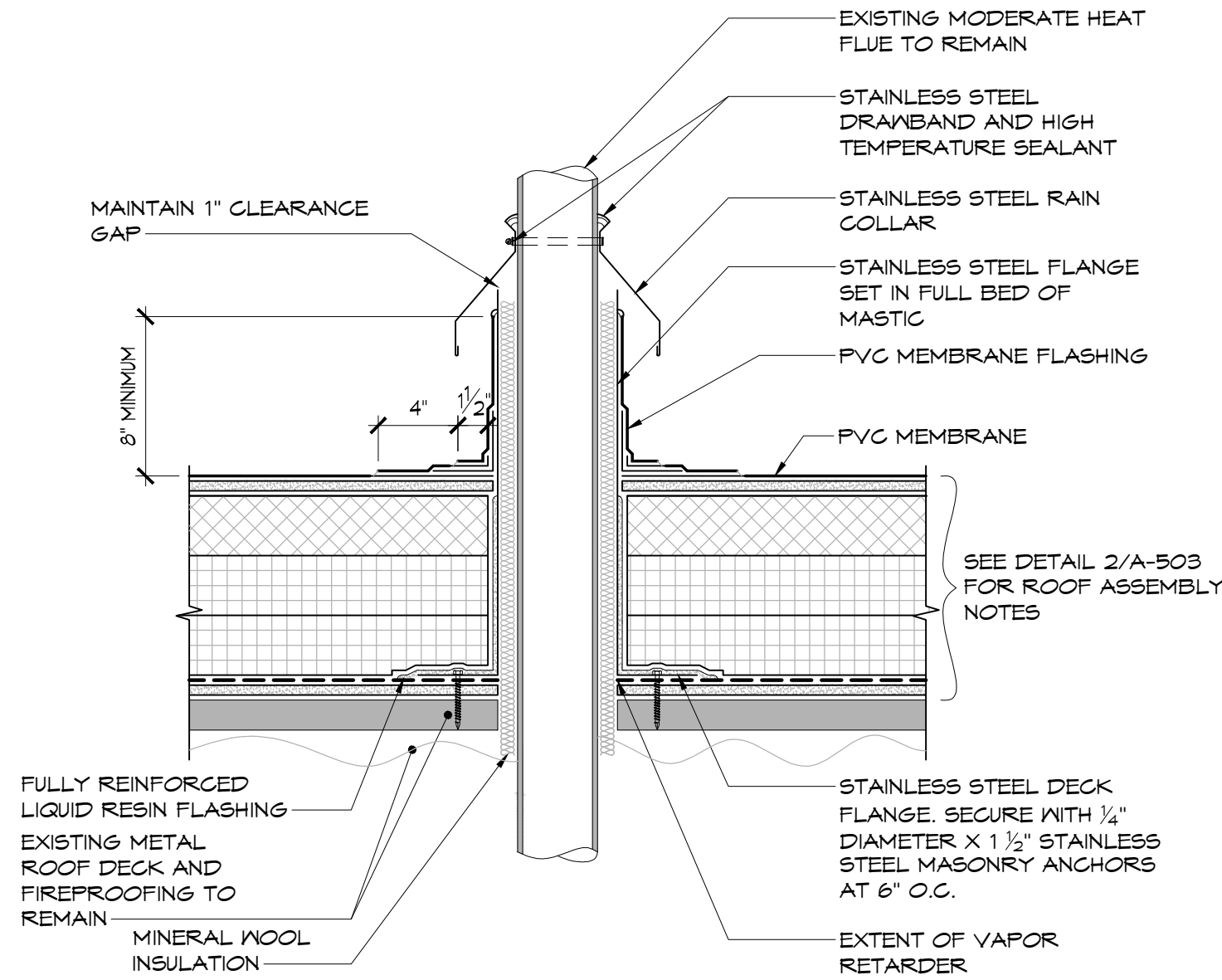
1 TYPICAL PIPE PENETRATION DETAIL (CONCRETE)
SCALE: 1 1/2" = 1'-0"



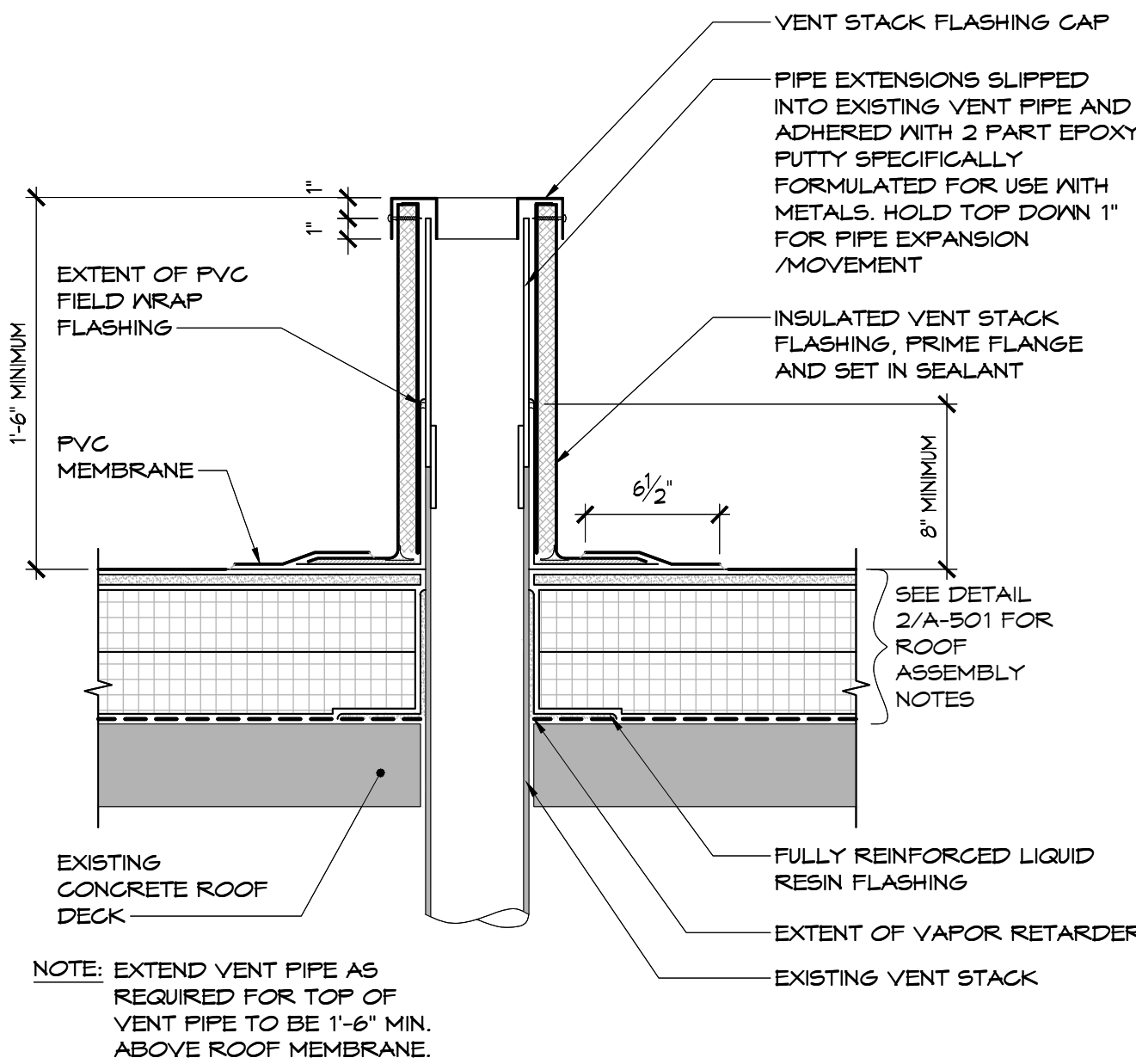
2 TYPICAL PIPE PENETRATION DETAIL (METAL)
SCALE: 1 1/2" = 1'-0"



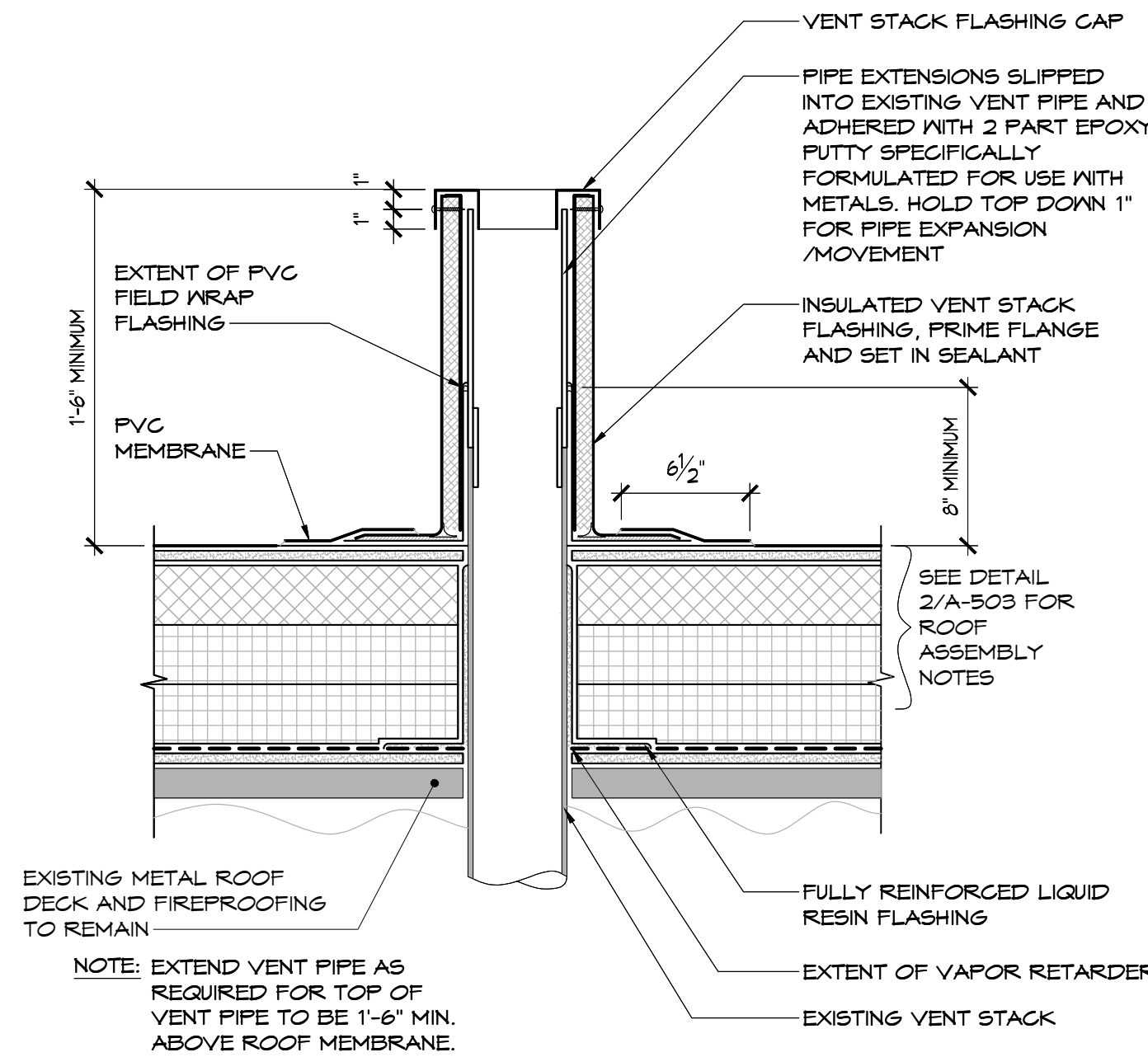
3 TYPICAL PLUMBING VENT DETAIL (HOT) (CONCRETE)
SCALE: 1 1/2" = 1'-0"



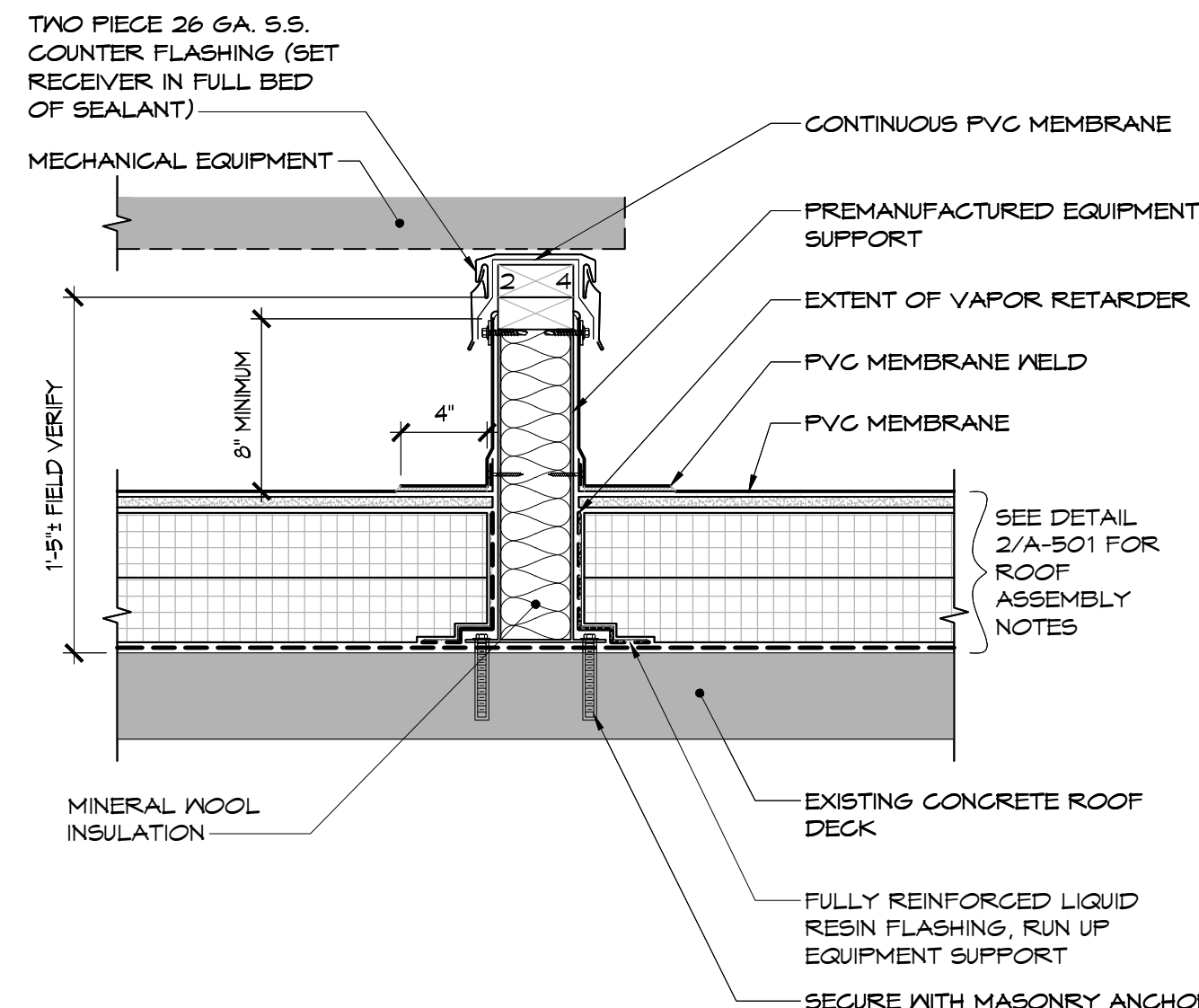
4 TYPICAL PLUMBING VENT DETAIL (HOT) (METAL)
SCALE: 1 1/2" = 1'-0"



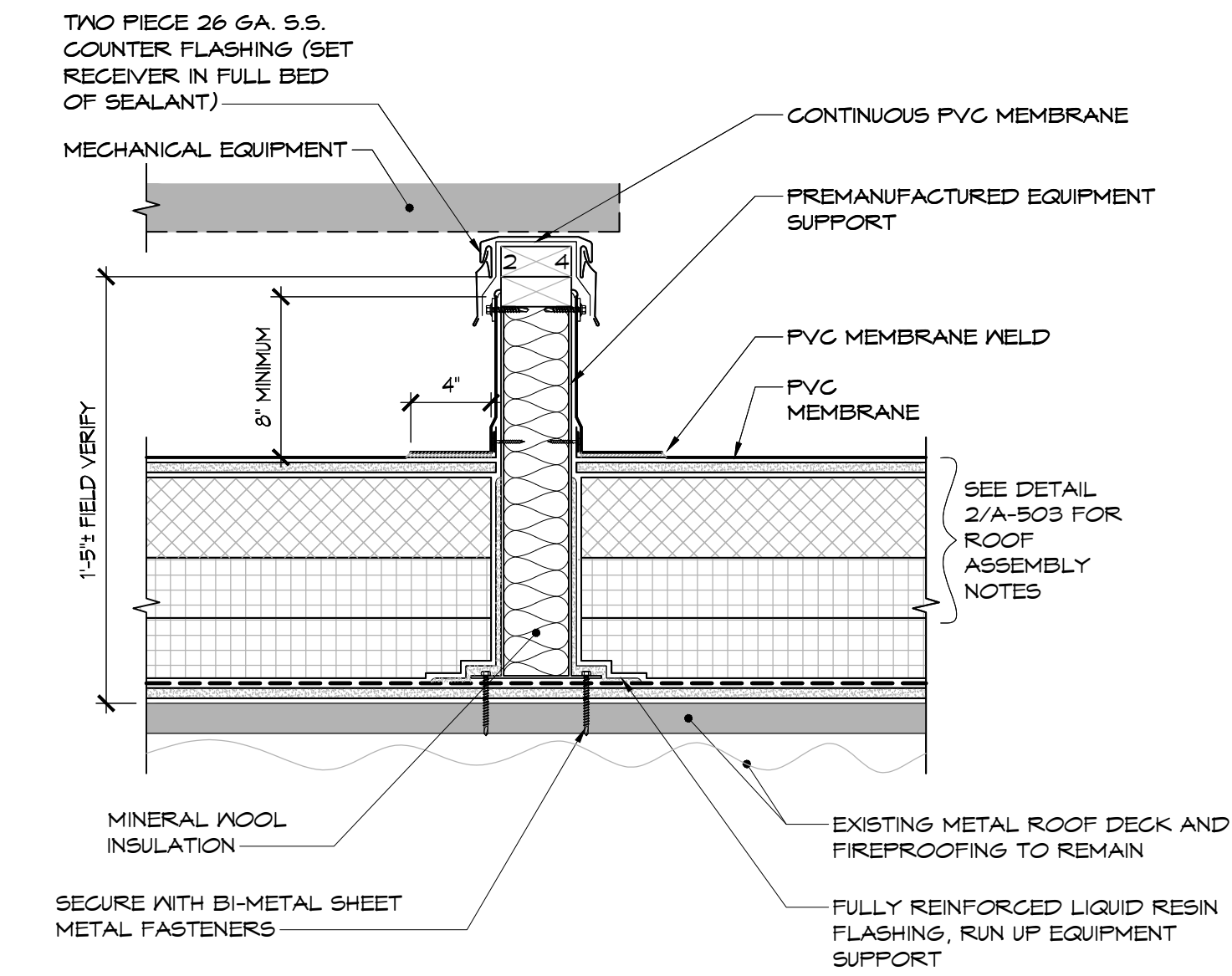
5 TYPICAL PLUMBING VENT (COLD) (CONCRETE)
SCALE: 1 1/2" = 1'-0"



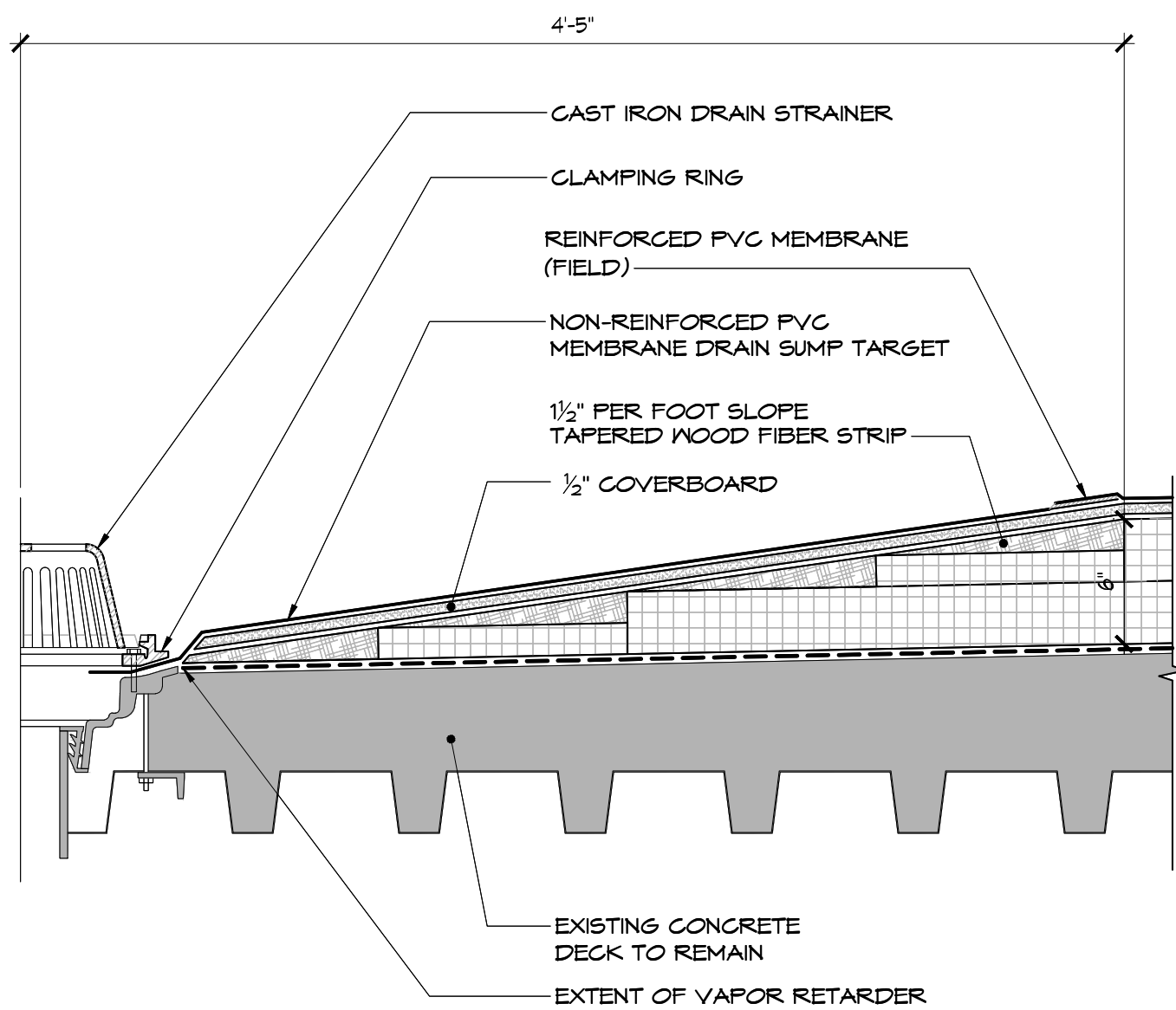
6 TYPICAL PLUMBING VENT (COLD) (METAL)
SCALE: 1 1/2" = 1'-0"



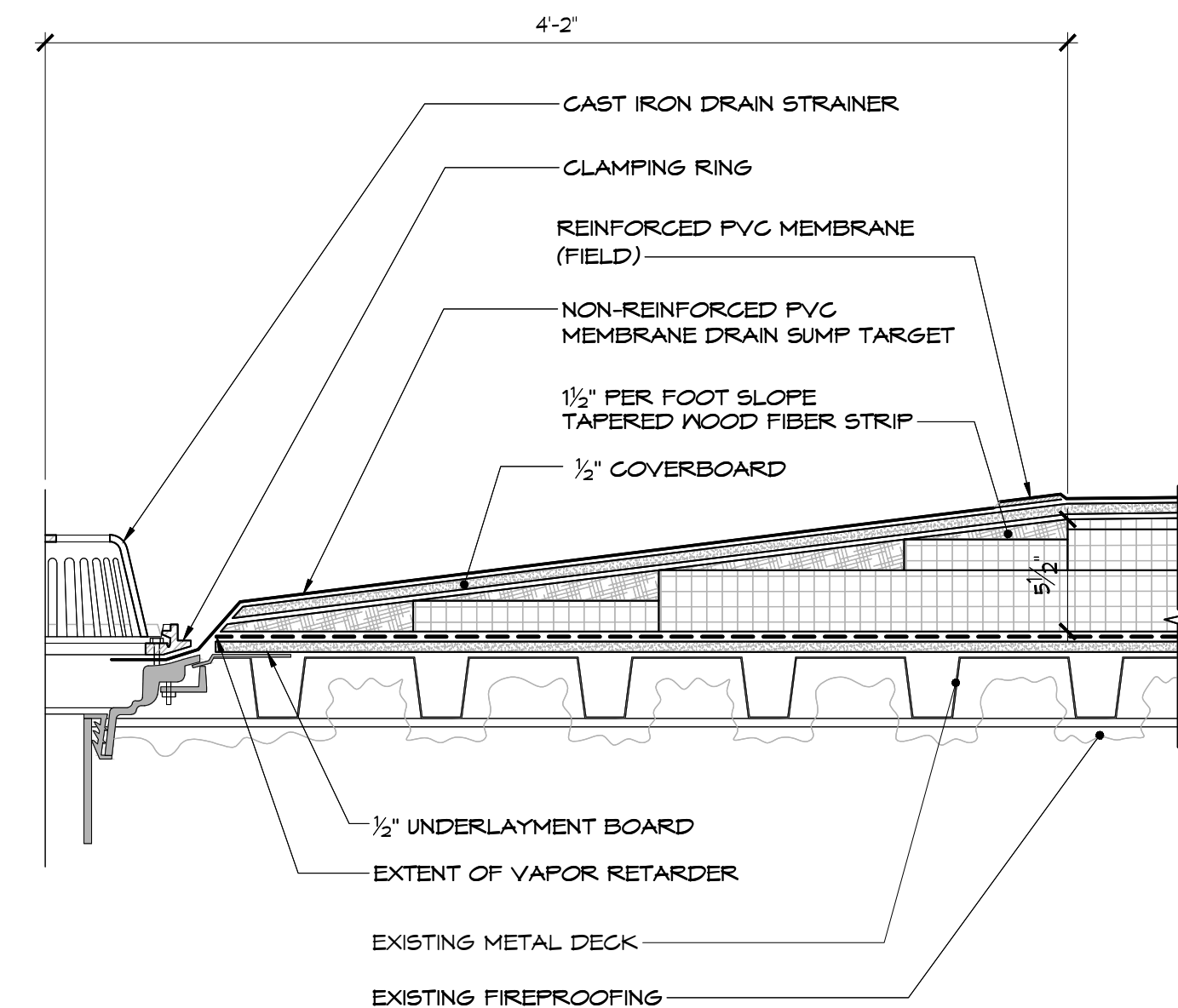
7 TYPICAL EQUIPMENT SUPPORT DETAIL (CONCRETE)
SCALE: 1 1/2" = 1'-0"



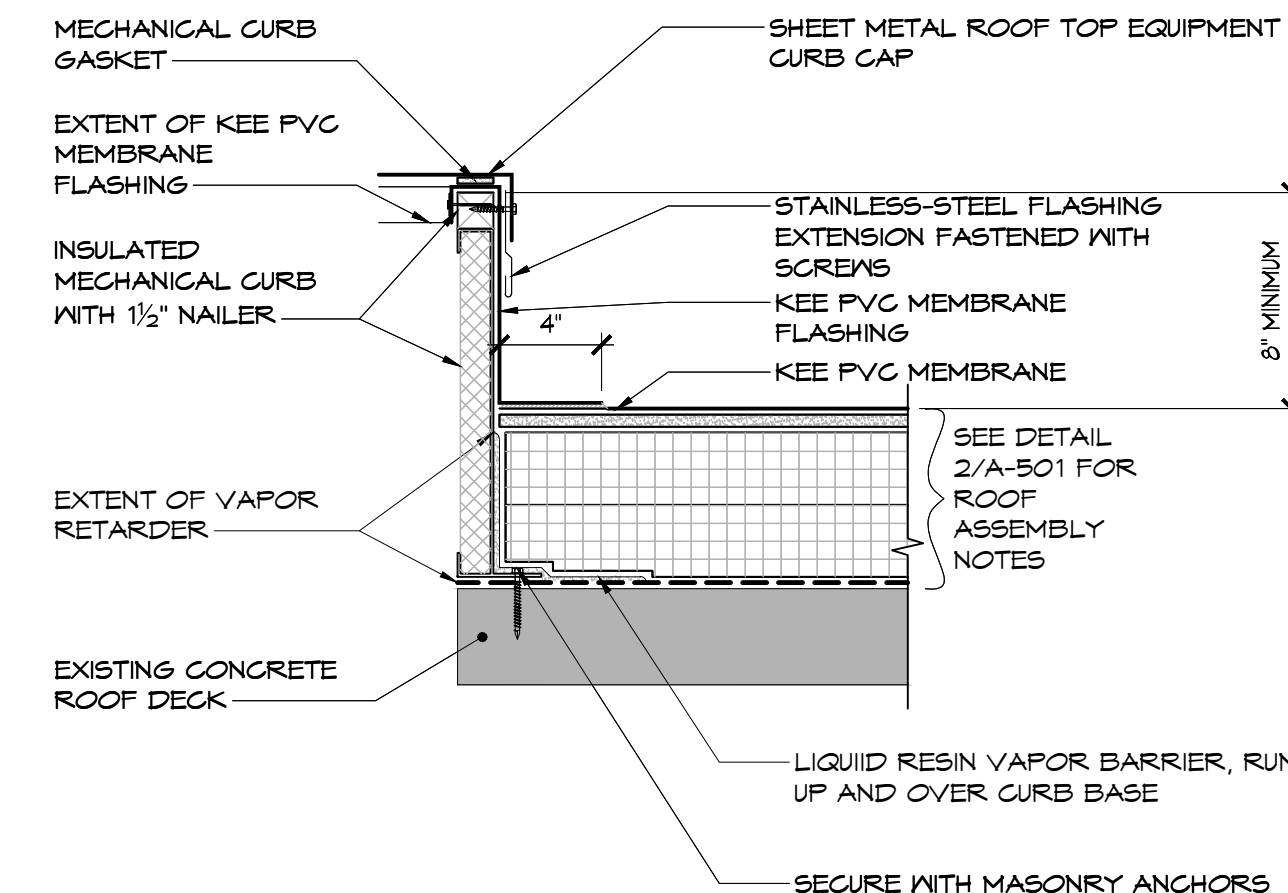
8 TYPICAL EQUIPMENT SUPPORT DETAIL (METAL)
SCALE: 1 1/2" = 1'-0"



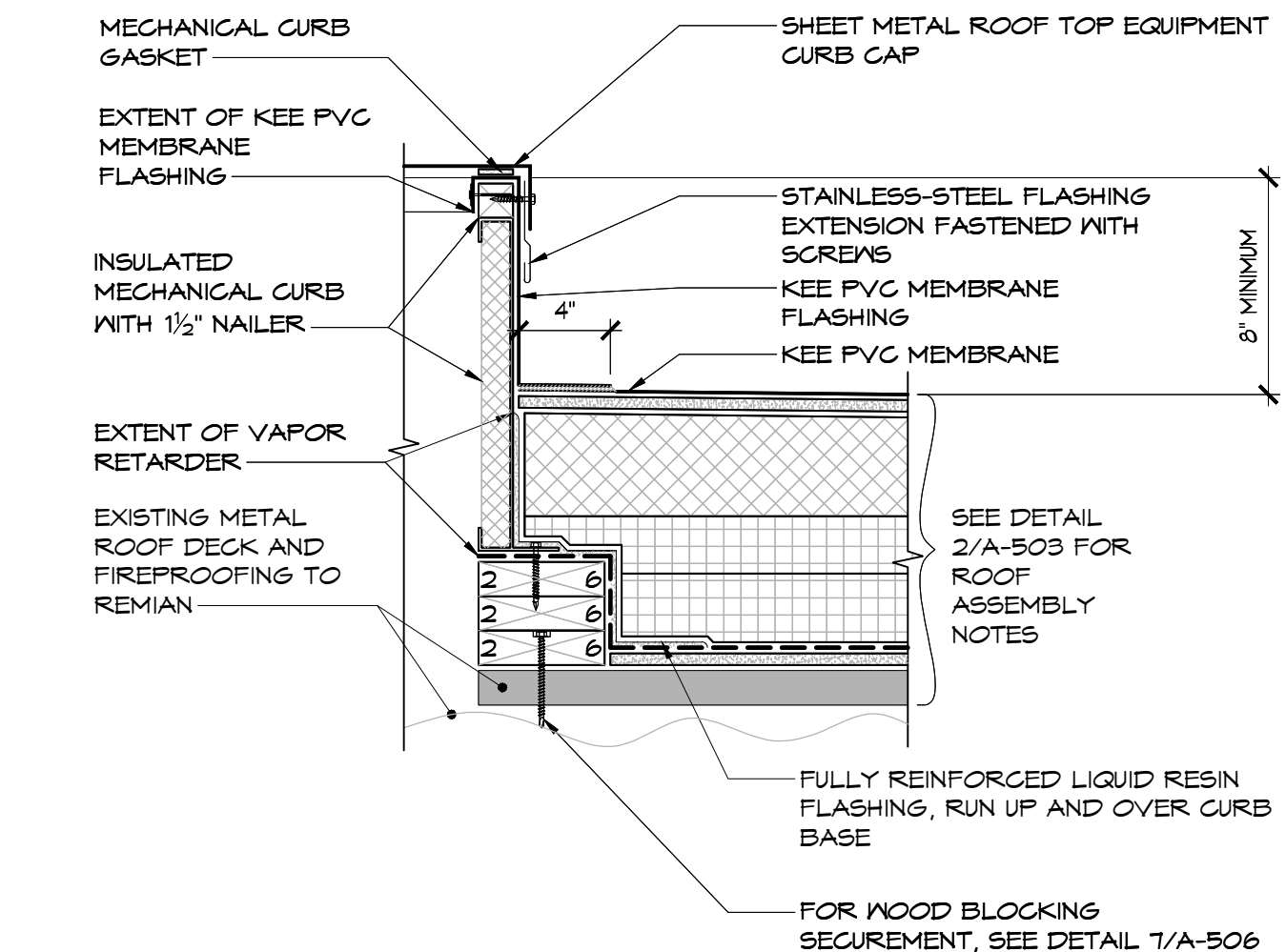
9 TYPICAL ROOF DRAIN SUMP (CONCRETE)
SCALE: 1 1/2" = 1'-0"



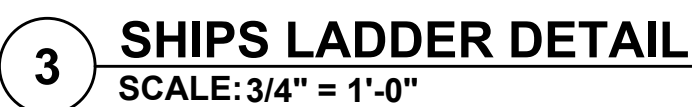
10 TYPICAL ROOF DRAIN SUMP DETAIL (METAL)
SCALE: 1 1/2" = 1'-0"



11 METAL CURB BASE FLASHING DETAIL (CONCRETE)
SCALE: 1 1/2" = 1'-0"

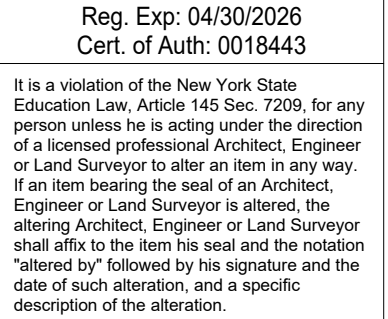


12 METAL CURB BASE FLASHING DETAIL (METAL)
SCALE: 1 1/2" = 1'-0"



HVAC SYMBOL LIST	
SYMBOL	DESCRIPTION
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	DRAWING KEYNOTE
MBH	THOUSAND BTU/HOUR
NTS	NOT TO SCALE
(E)	EXISTING
	WIDTH A x DEPTH B
	TRANSITION SQUARE TO ROUND
	SUPPLY DUCT TURNING UP OR DOWN
	RETURN DUCT TURNING UP OR DOWN
	MITERED ELBOW WITH TURNING VANES
SA	SUPPLY AIR
RA	RETURN AIR
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
	AIR FLOW
	ELBOW DOWN
	ELBOW UP

- A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL DEMOLITION DEBRIS AND MATERIALS OFF SITE IN A PROPER LEGAL MANNER.
- B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL SHUTDOWNS OF AIR HANDLING, CHILLED WATER, HOT WATER, STEAM, ETC. SYSTEMS WITH CORNELL UNIVERSITY FACILITY PERSONNEL FOR TIE-IN CONNECTIONS. ALL SHUT DOWNS WILL OCCUR DURING NIGHTS OR WEEKENDS. THE CONTRACTOR SHALL ASSIST THE UNIVERSITY PERSONNEL IN SHUTTING DOWN, DRAINING, VENTING, ETC. OF SYSTEM TO FACILITATE THE INTENDED WORK.
- C. DAMAGE TO EXISTING SYSTEMS (EQUIPMENT, PIPING, DUCTWORK, CONTROLS AND ACCESSORIES) SHOWN TO REMAIN AS A RESULT OF THE CONTRACTORS WORK IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE WITH SIMILAR OR LIKE MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
- D. THE DEMOLITION DRAWINGS SHOWN IN GENERAL MAJOR EQUIPMENT, PIPING AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROL S, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND CONTROL PNEUMATIC TUBING AND ACCESSORIES TO BE DISCONNECTED AND REMOVED BUT IS THE REQUIREMENTS UNDER THIS CONTRACT. NO EQUIPMENT, PIPING OR DUCTWORK SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PATCH WITH LIKE MATERIAL AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH THE ROOF AFTER DEMOLITION.
- F. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTORS FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
- G. THE OWNER OCCUPIED AREAS INCLUDE SENSITIVE EQUIPMENT AND RESEARCH WHICH MUST NOT BE INTERRUPTED OR OTHERWISE DISTURBED WITHOUT PRIOR NOTICE AND APPROPRIATE PLANNING.
- H. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.



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REPLACE ROOF
VETERINARY MEDICAL CENTER - PHASE 1

Building No. 1164

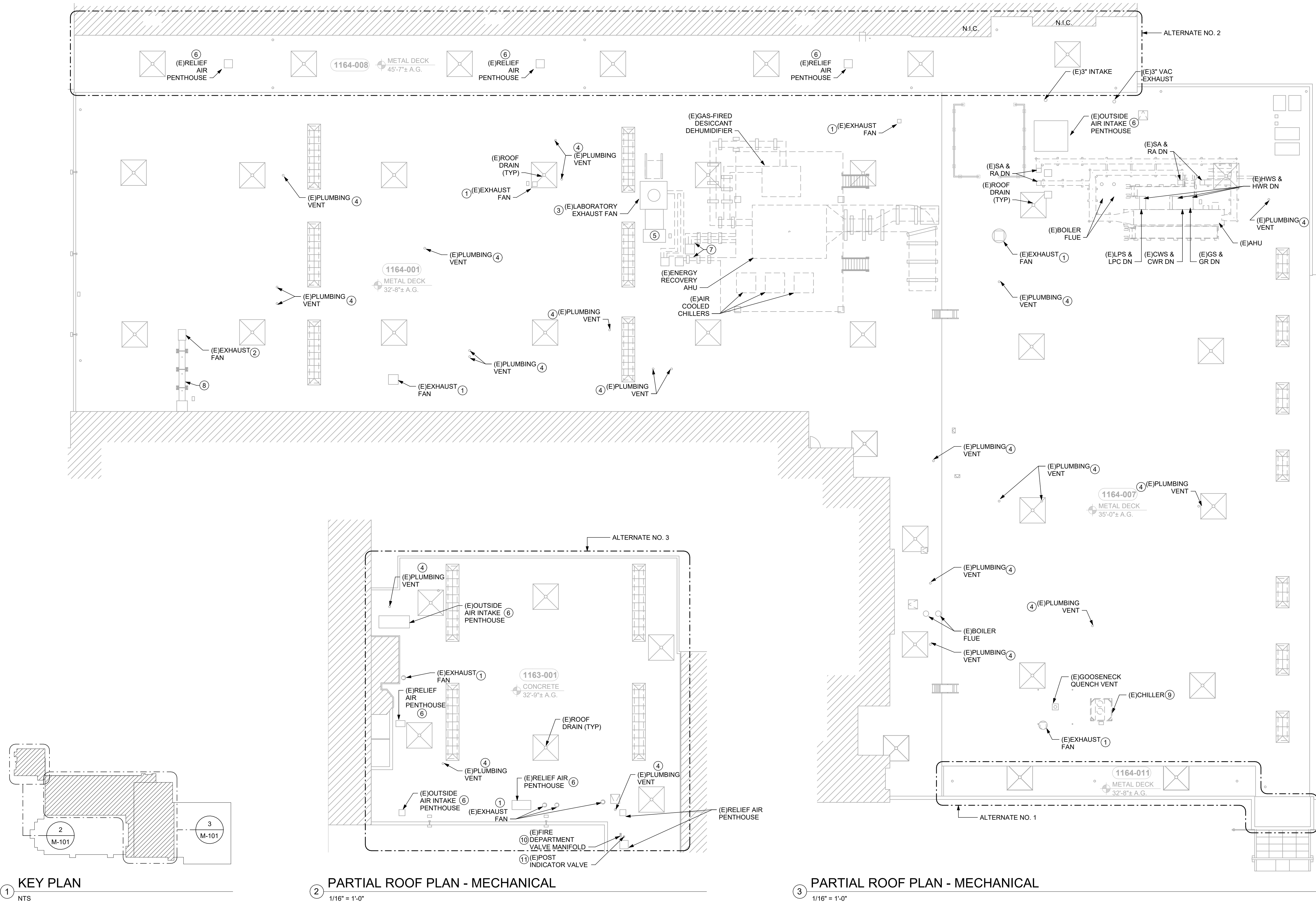
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SHEET TITLE	
GENERAL NOTES & SYMBOLS LIST - MECHANICAL	
SHEET NUMBER	
M-000	
SHEET 20	OF 25

MECHANICAL DRAWING NOTES:

- 1 DISCONNECT DUCTWORK FROM EXISTING EXHAUST AIR FAN. TEMPORARILY DISCONNECT FAN FROM EXISTING ROOF CURB. REINSTALL EXISTING FAN AND EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW ROOF.
- 2 DISCONNECT DUCTWORK FROM EXISTING EXHAUST AIR FAN. TEMPORARILY DISCONNECT FAN FROM EXISTING EQUIPMENT RAILS. PROVIDE NEW EQUIPMENT RAILS. REINSTALL EXISTING FAN AND RECONNECT EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW ROOF. RE-SUPPORT AND/OR EXTEND EXISTING EXTERIOR DUCTWORK SUPPORTS TO MEET FM GLOBAL AND WIND RESTRAINT REQUIREMENTS.
- 3 HIGH PLUME DILUTION LABORATORY EXHAUST AIR FAN WILL REMAIN IN PLACE. DISCONNECT AND RAISE EXISTING GLYCOL HEAT RECOVERY PIPING AS REQUIRED TO ACCOMMODATE NEW ROOF.
- 4 EXTEND EXISTING VENT TO 24" MINIMUM ABOVE NEW ROOF. PROVIDE OMG TUBOS VENT PIPE EXTENSION OR EQUAL FOR EXISTING PVC OR CAST IRON VENTS. ALL OTHER VENT MATERIAL EXTENSIONS SHALL MATCH THE EXISTING MATERIAL.
- 5 PROVIDE NEW TRANSITION / CURB ADAPTOR. REFER TO ARCH PLANS FOR CURB / DUCTWORK FLASHING REQUIREMENTS.
- 6 DISCONNECT AND REINSTALL EXISTING OUTSIDE AIR INTAKE / RELIEF AIR PENTHOUSE AS REQUIRED TO ACCOMMODATE NEW ROOF.
- 7 DISCONNECT AND RAISE EXISTING NATURAL GAS, CHILLED WATER, AND HOT WATER TO ACCOMMODATE NEW ROOF.
- 8 OFFSET EXISTING SS DUCTWORK TO ACCOMMODATE NEW ROOF CURB EXTENSION. MATCH TO EXISTING MATERIAL.
- 9 DISCONNECT AND RAISE EXISTING AIR COOLED CHILLER AND ASSOCIATED DUNNAGE AS REQUIRED TO ACCOMMODATE NEW ROOF. DISCONNECT AND REINSTALL EXISTING PIPING TO ACCOMMODATE NEW ROOF CURB. REFER TO ARCHITECTURAL PLAN A-508 DETAIL 6 FOR FURTHER REQUIREMENTS.
- 10 DISCONNECT AND EXTEND EXISTING FDV TO 36" TO 48" ABOVE NEW ROOF. EXTEND SUPPORT AS REQUIRED.
- 11 DISCONNECT AND REMOVE EXISTING POST INDICATOR VALVE. PROVIDE KENNEDY VALVE MODEL 2945 POST INDICATOR VALVE OR EQUAL AND INSTALL 36" TO 48" ABOVE NEW ROOF.



1 KEY PLAN
NTS

2 PARTIAL ROOF PLAN - MECHANICAL
1/16" = 1'-0"

3 PARTIAL ROOF PLAN - MECHANICAL
1/16" = 1'-0"

- A. CUT BACK INSULATION AND PROVIDE FLASHING.
- B. FURNISH, LOCATE, SET AND SECURE CURB. REFER TO ARCHITECTURAL PLANS FOR FURTHER REQUIREMENTS.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT.
- D. LENGTH OF SUPPORTS AS CALLED FOR. PROVIDE BLOCKING BENEATH SUPPORTS IN FLUTES OF METAL DECK.
- E. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

NTS

- A. CUT BACK INSULATION AND PROVIDE FLASHING.
- B. FURNISH, LOCATE, SET AND SECURE CURB. REFER TO ARCHITECTURAL PLANS FOR FURTHER REQUIREMENTS.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT.
- D. LENGTH OF SUPPORTS AS CALLED FOR, PROVIDE BLOCKING BENEATH SUPPORTS IN FLUTES OF METAL DECK.
- E. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

SIZE CHART	
DUCT SIZE	EQUIPMENT RAIL LENGTH
UP TO 12"	2'-0"
12 1/4" TO 24"	3'-0"
24 1/4" TO 36"	4'-0"
36 1/4" TO 48"	5'-0"
48 1/4" TO 60"	6'-0"
60 1/4" TO 72"	7'-0"
72 1/4" TO 84"	8'-0"

NTS

- A. CUT BACK INSULATION AND PROVIDE FLASHING.
- B. FURNISH, LOCATE, SET AND SECURE CURB. REFER TO ARCHITECTURAL PLANS FOR FURTHER REQUIREMENTS.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT.
- D. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

NTS

- A. PROVIDE RAIL FLASHING.
- B. LOCATE, SET AND SECURE CURB.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT.
- D. LENGTH OF SUPPORTS AS CALLED FOR. PROVIDE BLOCKING BENEATH SUPPORTS IN FLUTES OF METAL DECKS.
- E. MEDIUM STRENGTH THREADLOCKER (LOCTITE BRAND 242, OR EQUAL) SHALL BE APPLIED TO ALL BOLTS AND NUTS PRIOR TO FINAL ASSEMBLY.
- F. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

NTS

- A. REFER TO ARCHITECTURAL PLANS FOR ROOF CURB DETAIL.
- B. NON-GREASE DUCT.
- C. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS

NTS

- A. CUT BACK INSULATION AND PROVIDE FLASHING.
- B. FURNISH, LOCATE, SET AND SECURE CURB. REFER TO ARCHITECTURAL PLANS FOR FURTHER REQUIREMENTS.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL SUPPORT.
- D. LENGTH OF SUPPORTS AS CALLED FOR, PROVIDE BLOCKING BENEATH SUPPORTS IN FLUTES OF METAL DECKS.
- E. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.

NTS



ARCHITECTS

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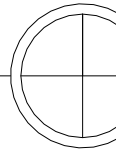
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PROJECT
NORTH

CONSULTANT



PROJECT

REPLACE ROOF
VETERINARY MEDICAL CENTER - PHASE 1

Building No. 1164

REPLACE ROOF
VETERINARY MEDICAL CE
930 CAMPUS ROAD
ITHACA, NY 14853
Client Project No: SUCF 191026

PROJECT NUMBER	191026
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The Contractor shall verify all dimensions and notify the Architect in writing of any discrepancies.

All drawings and specifications are the property of the Architect and shall be used only on the job designated.

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DRAWN MJW	CHECKED GDD
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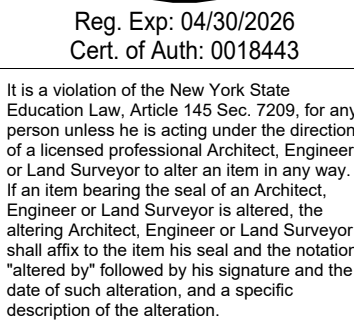
SHEET TITLE

DETAILS -
MECHANICAL

SHEET NUMBER

M-501

SHEET 22 OF 25



ME ENGINEERING
Mechanical/Electrical Engineering Consultants
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SHEET TITLE

GENERAL NOTES
AND
ABBREVIATIONS -
ELECTRICAL

SHEET NUMBER

E-000

SHEET 23 OF 25

- A. SLEEVE AND SEAL ALL ROOF, WALL AND FLOOR PENETRATIONS. PROVIDE FIRESTOPPING FOR ALL FIRE-RATED PENETRATIONS. UTILIZE REMOVABLE FIRESTOPPING MATERIAL AT CABLE TRAY PENETRATIONS. PROVIDE ACQUANTAC SEALANT FOR ALL NON RATED PENETRATIONS. ALL FIRE RATINGS SHALL BE MAINTAINED.
- B. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT.
- C. COORDINATE EXACT LOCATION OF ALL CONDUIT ROUTES, EQUIPMENT AND DEVICES WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- D. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR POWER CIRCUITS UNLESS NOTED OTHERWISE.
- E. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.
- F. FIRE ALARM SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR.
- G. CIRCUITING TO DEVICES/EQUIPMENT SHALL BE 2-#12AWG & 1-#12EG (MULTIPLE HOME RUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND) FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS (CIRCUITS SHALL NOT SHARE NEUTRALS).
- H. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED EQUIPMENT CONNECTIONS TO ALL DEVICES/EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.
- I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARD EDITION OF NFPA CODES, AS CITED BY THE FIRE CODE OF NEW YORK STATE, BUILDING CODE OF NEW YORK STATE AND CORNELL UNIVERSITY DESIGN STANDARDS.
- J. ALL CONDUITS AND SUPPORTS SHALL BE AS TIGHT TO DECK AS POSSIBLE.
- K. PROVIDE PULLBOX FOR EVERY 180 DEGREE OF BENDS FOR TEL/DATA AND 360 DEGREES OF BENDS FOR POWER CONDUITS.
- L. ALL ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, FIRE ALARM, ETC.) SHALL BE ALIGNED HORIZONTALLY AND VERTICALLY. CONTRACTOR TO SCHEDULE AND COORDINATE PROJECT WALKTHROUGH WITH ARCHITECT AND ENGINEER PRIOR TO COMMENCEMENT OF ANY DITCH ROUGH-IN FOR FINALIZATION OF ALIGNMENTS.
- M. ALL EXISTING DEVICES CIRCUITED TO PANELS BEING RENAMED SHALL BE PROVIDED WITH UPDATED LABELS.
- N. COORDINATE IT SERVICE CHANGES OR DISRUPTIONS IN SERVICE WITH CIT OPERATIONS AT (607)255-5500.
- O. ALL OUTLETS WITHIN 6' OF SINK EDGE SHALL BE GFCI RATED.
- P. FLEX CONDUIT IS PROHIBITED FOR USE IN DATA APPLICATIONS WITHOUT WRITTEN PERMISSION FROM CORNELL CIT INFRASTRUCTURE ENGINEERS.
- Q. ALL DATA WORK MUST BE COORDINATED WITH CORNELL CIT.

DURING DEMOLITION, WHICH IS TO REMAIN, IS DAMAGED DURING THE COURSE OF DEMOLITION AS A RESULT OF THE CONTRACTOR'S WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, AS MUCH AS POSSIBLE, SUBJECT TO THE OWNERS APPROVAL.

B. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDING AND FURNISHINGS FROM DAMAGE.

C. COORDINATE PHASING OF WORK WITH OWNER'S REPRESENTATIVE.

D. COORDINATE ALL SHUTDOWNS WITH UNIVERSITY PRIOR TO DEMOLITION. ALL FIRE ALARM SHUTDOWNS SHALL BE SCHEDULED THROUGH CUSTOMER SERVICE WITH AT LEAST 24 HOURS NOTICE BEFORE WORK IS TO BE STARTED.

E. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE DEMOLITION WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN SURVEY OF THE EXISTING ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL DISCONNECT AND CAP ALL SERVICE LINES TO BE DISCONNECTED FOR THOSE SERVICES WHICH NORMALLY ARE INCLUDED IN HIS FIELD OF WORK. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARD OR CAUSING DISRUPTION IN ADJOINING AREAS. NOT ALL DEVICES TERMINATIONS, JUNCTION BOXES AND WIRING HAVE BEEN SHOWN.

F. REFER TO PLUMBING CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL PLUMBING EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZATION, REMOVAL AND BLANK-OFF BY THE CONTRACTOR.

G. EXISTING FIRE ALARM SYSTEM SHALL BE KEPT OPERATIONAL DURING THE CONSTRUCTION PERIOD THE BUILDING UNDER RENOVATION MAY BE DISCONNECTED FROM SERVICE DURING THE HOURS THE CONTRACTOR IS WORKING. AT THE DISCRETION OF THE FIRE DEPARTMENT AND THE OWNER'S REPRESENTATIVE, BUT MUST BE PLACED BACK ON LINE DURING OTHER PERIODS. APPROVAL TO BE IN WRITING.

H. THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITHIN DEMOLITION AREA SHALL BE DEMOLISHED ALONG WITH ALL FEEDERS AND CONDUITS BACK TO POINT OF SOURCE UNLESS OTHERWISE NOTED. ALL EQUIPMENT ON THE DEMOLITION DRAWINGS SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE. WALLBOXES, BACKBOXES AND CONDUIT SHALL BE REUSED AS DETERMINED BY CONTRACTOR. ALL UNUSED CONDUITS SHALL BE REMOVED. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.

I. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).

J. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED AND NOT SHOWN OR REQUIRED TO BE REUSED, SHALL BE CUT OFF FLUSH WITH SLAB LEVEL WITH CONCRETE.

K. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

L. DISCONNECT, MAKE SAFE AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN THE SPACE.

M. BRANCH CIRCUIT WIRING TO DEVICES IN AREAS OF DEMOLITION SHALL BE DISCONNECTED, MADE SAFE AND REMOVED COMPLETELY BACK TO THE PANELBOARD. THE CONTRACTOR SHALL NOT ABANDON BRANCH CIRCUIT WIRING TO ANY AREAS WHICH ARE TO REMAIN BUT ARE AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.

N. DISCONNECT AND REMOVE PANEL, FEEDERS AND BRANCH CIRCUITS BACK TO POINT OF SOURCE PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE OF THE SCOPE OF WORK.

O. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL INSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY.

P. PROVIDE TEMPORARY HEAT DETECTORS IN AREAS WHERE SPRINKLERS ARE REMOVED FROM SERVICE DURING CONSTRUCTION. COORDINATE WITH FIRE PROTECTION CONTRACTOR.

Q. REFER TO HVAC CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL HVAC EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZATION, REMOVAL AND BLANK-OFF BY THE CONTRACTOR.

ABBREVIATIONS		ABBREVIATIONS	
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR	LTG.	LIGHTING
A.F.G.	ABOVE FINISHED GRADE	M.C.B.	MAIN CIRCUIT BREAKER
A.	AMPERE	M.L.O.	MAIN LUG ONLY
AUTO.	AUTOMATIC	MICRO	MICROWAVE
BSMT.	BASEMENT	N.I.C	NOT IN CONTRACT
BKR.	BREAKER	NL	NIGHT LIGHT
CLG.	CEILING	PNL.	PANEL
CONTR.	CONTRACTOR	PH.	PHASE
CONT.	CONTACTOR	P.C.	PLUMBING CONTRACTOR
C	CAMERA, CONDUIT	PV	POWER VENTILATOR
DN.	DISTRIBUTION PANEL	P.	POLE
DOWN	DOWN	REFRIG.	REFRIGERATOR
EA.	EACH	SP.	SPACE
ELEC.	ELECTRIC	SPEC.	SPECIFICATION
EMERG.	EMERGENCY	SW.	SWITCH
EM.	EMERGENCY	TV	TELEVISION
EWC	ELECTRIC WATER COOLER	T.B.B.	TELEPHONE BACKBOARD
EXIST.	EXISTING	T.T.C.	TELEPHONE TERMINAL CABINET
F.A.	FIRE ALARM	TYP.	TYPICAL
F.A.C.P.	FIRE ALARM CONTROL PANEL	U.L.	UNDERWRITER'S LABORATORY
F.A.T.C.	FIRE ALARM TERMINAL CABINET	V.	VOLT
FCU	FAN COIL UNIT	WP	WEATHERPROOF
FZ (3)	FIRE ZONE (3)	4 W.	WIRE
GRS.	GALVANIZED RIGID STEEL	3P.15A.	P = POLE A = AMPERE
GND.	GROUND	OC	MOUNTED OVER COUNTER HEIGHT
G.C.	GENERAL CONTRACTOR	UC	MOUNTED UNDER COUNTER HEIGHT
GEN.	GENERATOR	UV	UNIT VENTILATOR
G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER	WG	WIRE GUARD
H.V.A.C.	HEATING, VENTILATING AND AIR CONDITIONING	EHP	FRACTIONAL HORSEPOWER
HP.	HORSEPOWER	EF	EXHAUST FAN
KW.	KILOWATT	CUH	CABINET UNIT HEATER
		UH	UNIT HEATER
		WAP	WIRELESS ACCESS POINT

- A. REMOVE AND REPLACE ALL EXISTING LIGHTNING PROTECTION SYSTEMS. MOUNT CONDUCTORS TO BACK OF PARAPET AND OFF ROOF MEMBRANE PER DETAIL - CONTRACTOR TO COORDINATE INSTALLATION. PROVIDE A COMPLETE SYSTEM, REFER TO SPECIFICATIONS.
- B. DISCONNECT ANY EQUIPMENT POWER CONNECTIONS, RECONNECT USING ADDITIONAL MATERIAL AS NECESSARY TO REINSTALL PRIOR TO ROOF REPLACEMENT WORK. COORDINATE WITH ROOFTOP EQUIPMENT.

1 EXTERIOR LUMINAIRE LOCATION. BASE COMPONENT TO BE REPLACED. REMOVE FIXTURE, EXTEND WIRING AND REWORK JUNCTION BOXES AS NEEDED TO ACCOMMODATE NEW BASE AND FIXTURE. ALL ABOVE ABOVE-GROUND WIRING SHALL BE MINIMUM 3/4" GALVANIZED RIGID CONDUIT. PROVIDE CAST METAL WEATHERPROOF BOXES WITH THREADED HUBS FOR ALL JUNCTION BOXES. PROVIDE BOXES WITH GASKETED WEATHERPROOF COVERS. UTILIZE SINGLE PATH THROUGH ROOF AND THEN RUN HORIZONTALLY ALONG ROOF WITH DURABLOCK CONDUIT SUPPORTS. PROVIDE 2' ARCH BRACKET PLANS FOR DETAILS ON CONDUIT HUB LOCATIONS AND DURABLOCK LOCATIONS. PROVIDE ADDITIONAL DURABLOCK SUPPORTS AS REQUIRED BASED ON CONDUIT CONNECTION POINTS.

2. PROVIDE BEACON VIBRATION FLOODLIGHT CAT#VP-F-ST-2-72L-210-4K8-6X4-UNV-K -PC-FINISH BY ARCHITECT. PROVIDE THREADED 2" EXTENSION FROM STUD TO STRUT AND COORDINATE WITH ARCHITECT AND OWNER FOR POSITIONING. EXTEND EXISTING CIRCUITRY IN MINIMUM 3/4" RIGID CONDUIT. WIRING TO BE #10AWG MINIMUM. WIRING TO FUTURE FROM JUNCTION BOX TO BE IN LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
3. PRESSURE RELIEF VENT. EXTEND WIRING AND FLEXIBLE CONDUIT TO VENT. VENT TO BE FIELD.
4. EXISTING ELECTRICAL CONNECTION. DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED. EXTEND POWER CIRCUITS WITH A MINIMUM OF #12 AWG CONDUCTORS AND A MINIMUM 3/4" CONDUIT. FINAL CONDUCTOR AND CONDUIT SIZE SHALL BE DETERMINED BY THE COMPONENTS TO BE EXTENDED. PROVIDE FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

- EXISTING SMOKE HATCH. (DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED. EXTEND POWER CIRCUITS WITH A MINIMUM OF #12AWG CONDUCTORS AND A MINIMUM 1/4" CONDUIT. FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. PROVIDE COPPER, MINIMUM #14 AWG, PLENUM-RATED CABLEING FOR FIRE ALARM SIGNAL EXTENSIONS. PROVIDE ALL WIRING BACK TO T-TAP (AND PERFORM T-TAP) OR PREVIOUS AND NEXT DEVICES AS NEEDED. PROVIDE 3/4" EMT PATHWAYS. PROVIDE ALL PROGRAMMING AS REQUIRED. COORDINATE ALL SHUTDOWNS WITH OWNER). REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- EXISTING ELECTRICAL AND BMS CONDUITS. (DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED TO RAISE TO HEIGHT OF NEW ROOF CURB TO ALLOW FOR ROOF INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR NEW ROOF CURB LOCATION. PROVIDE ALL POWER CIRCUITS WITH A MINIMUM OF #10AWG CONDUCTORS AND A MINIMUM 1" CONDUIT. FINAL CONDUCTOR AND CONDUIT SIZE SHALL MATCH EXISTING COMPONENT BEING EXTENDED. PROVIDE FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. PROVIDE COPPER, MINIMUM #14 AWG, PLENUM-RATED CABLEING FOR FIRE ALARM SIGNAL EXTENSIONS. PROVIDE ALL WIRING BACK TO T-TAP (AND PERFORM T-TAP) OR PREVIOUS AND NEXT DEVICES AS NEEDED. PROVIDE 3/4" EMT PATHWAYS. PROVIDE ALL PROGRAMMING AS REQUIRED. COORDINATE ALL SHUTDOWNS WITH OWNER. BMS WIRING SHALL BE COMPLETELY NEW WIRING FROM POINT TO POINT AND INSTALLED WITHIN CONDUIT FOR ROUTING ON ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- EXISTING ELECTRICAL CONNECTION. DISCONNECT, EXTEND AND, RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED TO REMOVE FROM EXISTING ROOF CURB AND INTO NEW ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS FOR NEW ROOF CURB LOCATION. EXTEND POWER CIRCUITS WITH A MINIMUM OF #12 AWG CONDUCTORS AND A MINIMUM 3/4" CONDUIT. FINAL CONDUCTOR AND CONDUIT SIZE SHALL MATCH EXISTING COMPONENT BEING EXTENDED. PROVIDE FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. PROVIDE COPPER, MINIMUM #14 AWG, PLENUM-RATED CABLEING FOR FIRE ALARM SIGNAL EXTENSIONS. PROVIDE ALL WIRING BACK TO T-TAP (AND PERFORM T-TAP) OR PREVIOUS AND NEXT DEVICES AS NEEDED. PROVIDE 3/4" EMT PATHWAYS. PROVIDE ALL PROGRAMMING AS REQUIRED. COORDINATE ALL SHUTDOWNS WITH OWNER. BMS WIRING SHALL BE COMPLETELY NEW WIRING FROM POINT TO POINT AND INSTALLED WITHIN CONDUIT FOR ROUTING ON ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- EXISTING ELECTRICAL AND BMS CONDUITS. DISCONNECT, EXTEND, RELOCATE AND RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED TO RAISE TO HEIGHT OF NEW ROOF CURB TO ALLOW FOR ROOF INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR NEW ROOF CURB LOCATION. EXTEND POWER CIRCUITS WITH A MINIMUM OF #12AWG CONDUCTORS AND A MINIMUM 1/4" CONDUIT. FINAL CONDUCTOR AND CONDUIT SIZE SHALL MATCH EXISTING COMPONENT BEING EXTENDED. PROVIDE FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. PROVIDE COPPER, MINIMUM #14 AWG, PLENUM-RATED CABLEING FOR FIRE ALARM SIGNAL EXTENSIONS. PROVIDE ALL WIRING BACK TO T-TAP (AND PERFORM T-TAP) OR PREVIOUS AND NEXT DEVICES AS NEEDED. PROVIDE 3/4" EMT PATHWAYS. PROVIDE ALL PROGRAMMING AS REQUIRED. COORDINATE ALL SHUTDOWNS WITH OWNER. BMS WIRING SHALL BE COMPLETELY NEW WIRING FROM POINT TO POINT AND INSTALLED WITHIN CONDUIT FOR ROUTING ON ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- ROOF-MOUNTED POST INDICATOR VALVE (PIV). EXTEND FIRE ALARM CONNECTIONS USING COPPER, MINIMUM #14AWG, PLENUM-RATED CABLEING. EXTEND TO T-TAP (AND PERFORM T-TAP) OR PREVIOUS AND NEXT DEVICES. PROVIDE ALL PROGRAMMING AS NEEDED. COORDINATE ALL SHUTDOWNS WITH OWNER.
- EXISTING ELECTRICAL CONNECTION TO CONDENSING UNIT. DISCONNECT, EXTEND, AND RECONNECT ALL ELECTRICAL COMPONENTS AS NEEDED TO REMOVE FROM EXISTING ROOF CURB AND INTO NEW ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS FOR NEW ROOF CURB LOCATION. EXTEND POWER CIRCUITS WITH A MINIMUM OF #12 AWG CONDUCTORS AND A MINIMUM 1/4" CONDUIT. FINAL CONDUCTOR AND CONDUIT SIZE SHALL MATCH EXISTING COMPONENTS BEING EXTENDED. PROVIDE FLEXIBLE OR LIQUIDTIGHT FLEXIBLE CONDUIT AS NEEDED FOR MOVING OR VIBRATING COMPONENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- BOND ALL RAILINGS TO LIGHTNING PROTECTION SYSTEM.
- TEMPORARILY DISCONNECT AND REMOVE EXISTING ELECTRICAL COMPONENTS SUPPORTED FROM AHU METAL PLATFORM TO ALLOW FOR ITS MODIFICATIONS. PROVIDE TEMPORARY SUPPORTS FOR EXISTING ELECTRICAL ELEMENTS AND THEN REATTACH TO AHU METAL PLATFORM AFTER MODIFICATIONS HAVE BEEN MADE AND NEXT PLACED BACK ADJACENT TO AHU.



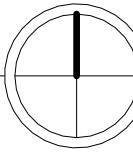
2 PARTIAL ROOF PLAN - ELECTRICAL
1/16" = 1'-0"

3 PARTIAL ROOF PLAN - ELECTRICAL
1/16" = 1'-0"

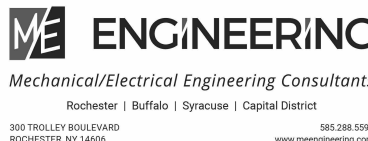


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PROJECT
NORTH

CONSULTANT



PROJECT

REPLACE ROOF
VETERINARY MEDICAL CENTER - PHASE 1
930 CAMPUS ROAD
ITHACA, NY 14853
Client Project No: SUCF 191026
Building No

PROJECT NUMBER
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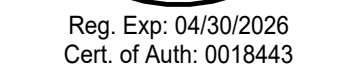
PARTIAL ROOF
PLANS -
ELECTRICAL

SHEET NUMBER

SHEET 24 OF 25



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PROJECT NORTH



PROJECT 1

REPLACE ROOF
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930 CAMPUS ROAD
ITHACA, NY 14853
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Building No:

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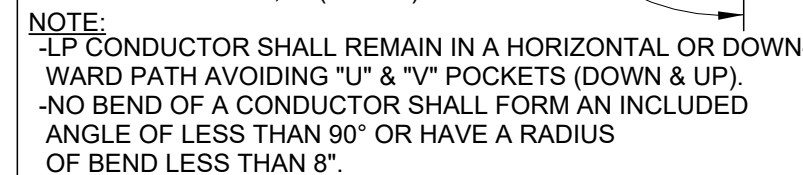
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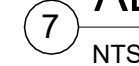
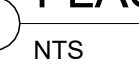
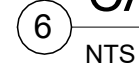
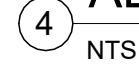
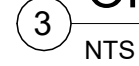
SHEET 25 OF 25



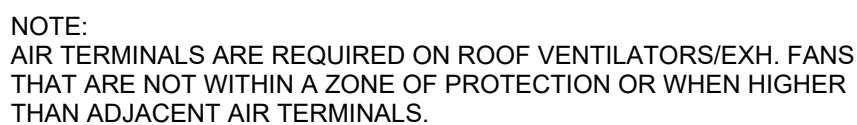
- A. BOND ALL ROOF DRAINS, PIPING, HVAC UNITS, ETC., AS REQUIRED.



1 —
NTS



1. PROPER ROOF FLASHINGS SHALL BE FURNISHED, INSTALLED AND WEATHERPROOFED BY THE CONTRACTOR.
2. JUNCTION BOXES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



9 — NTS

