



Public Works Government
Services Canada

Architectural and
Engineering Services

Ontario Region

Travaux publics services
gouvernementaux Canada

Services d'architecture
et de génie

Région de l'Ontario

PROJECT:

ROOF REPLACEMENT

CORRECTIONAL SERVICE CANADA

BEAVER CREEK INSTITUTION – MEDIUM

2000 BEAVER CREEK DRIVE

GRAVENHURST, ONTARIO

CLIENT:

PUBLIC WORKS GOVERNMENT SERVICES CANADA

PWGSC PROJECT No.: R.074360.001

ARCHITECT:

MMMC ARCHITECTS

ROOFING CONSULTANT:

IRC BUILDING SCIENCES GROUP INC.

Canada

LIST OF DRAWINGS		LIST OF ABBREVIATIONS		LEGEND	
ROOFING					
A0	TITLE PAGE	AVG.	AVERAGE		ROOF AREAS N.I.C.
A0.1	DRAWING LIST, ABBREVIATIONS, AND LEGEND	AC	AIR CONDITIONER		AREAS OF EXISTING ROOF SYSTEM TO REMOVE DOWN TO ROOF DECK
A0.2	SITE PLAN	BLDG.	BUILDING		CAPPED STACK
A1.0	ROOF DEMOLITION PLAN – BUILDING D AND KEYPLAN	C/W	COMPLETE WITH		CHANGE IN ELEV.
A1.1	ROOF PLAN – BUILDING D AND KEYPLAN	CONC.	CONCRETE		CONDUIT LINE
A2.0	ROOF DEMOLITION PLAN – BUILDING J AND KEYPLAN	HVAC	HEATING, VENTILATION, AIR CONDITIONING		DRAIN
A2.1	ROOF PLAN – BUILDING J AND KEYPLAN	MAX.	MAXIMUM		EXHAUST FAN ON CURB
A3.0	PARTIAL ROOF DEMOLITION PLAN – BUILDINGS B & K AND KEYPLAN	MIN.	MINIMUM		GOOSENECK VENT
A3.1	PARTIAL ROOF PLAN – BUILDINGS B & K AND KEYPLAN	MOD. BIT.	MODIFIED BITUMEN		GOOSENECK VENT ON CURB
A4.0	PARTIAL ROOF DEMOLITION PLAN – BUILDINGS A & C AND KEYPLAN	N.V.S.	NON-VENTED SUBSTRATE		HATCH
A4.1	PARTIAL ROOF PLAN – BUILDINGS A & C AND KEYPLAN	O.C.	ON CENTRE		HVAC UNIT ON ROOF
A5	DETAILS	PREP.	PREPARE		HVAC UNIT ON PAVERS
A6	DETAILS	REQ'D	REQUIRED		HVAC UNIT ON SLEEPERS
A7	DETAILS	S.A.	SELF-ADHERED		PIPE SUPPORT
A8	DETAILS	TEMP.	TEMPORARY		PLUMBING OR SOIL STACK
A9	DETAILS	TYP.	TYPICAL		SATELLITE DISH
		PMMA	POLYMETHYL METHACRYLATE		SCUPPER
		H.S.S.	HOLLOW STEEL SECTION		SKYLIGHT
		GALV.	GALVANIZED		SKYLIGHT
					DECK SLOPE
					SQUARE VENT
					NVS INSULATION SYSTEM RELIEF VENT
					ROOFING SLEEVE. IF NO CALL-OUT BUBBLE IS NOTED ON PLANS, REFER TO TYPICAL MISCELLANEOUS CONDUIT DETAIL 22/A8
					HVAC UNIT ON LEGS
					RAILING MOUNTED TO PARAPET
					CONCRETE PAVERS

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01	ISSUED FOR BID	2017-03-07
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A Detail No.
No. du détail
B drawing no. – where detail required
dessin no. – où détail exigé
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project title
titre du projet
GRAVENHURST Ontario
BEAVER CREEK INSTITUTION – MEDIUM
CORRECTIONAL SERVICE CANADA
2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
titre du dessin
**DRAWING LIST, ABBREVIATIONS,
AND LEGEND**

drawn by
dessiné par **IRC GROUP: F.R.A./B.M.W.**

designed by
conçu par **IRC GROUP: A.J.D.**

approved by
approuvé par **IRC GROUP: T.K.C.**

bid
offre **D.A.** project manager
administrateur de projets

project date
date du projet **2017-03-07**

project no.
no. du projet **R.074360.001**

drawing no.
dessiné no. **A0.1**

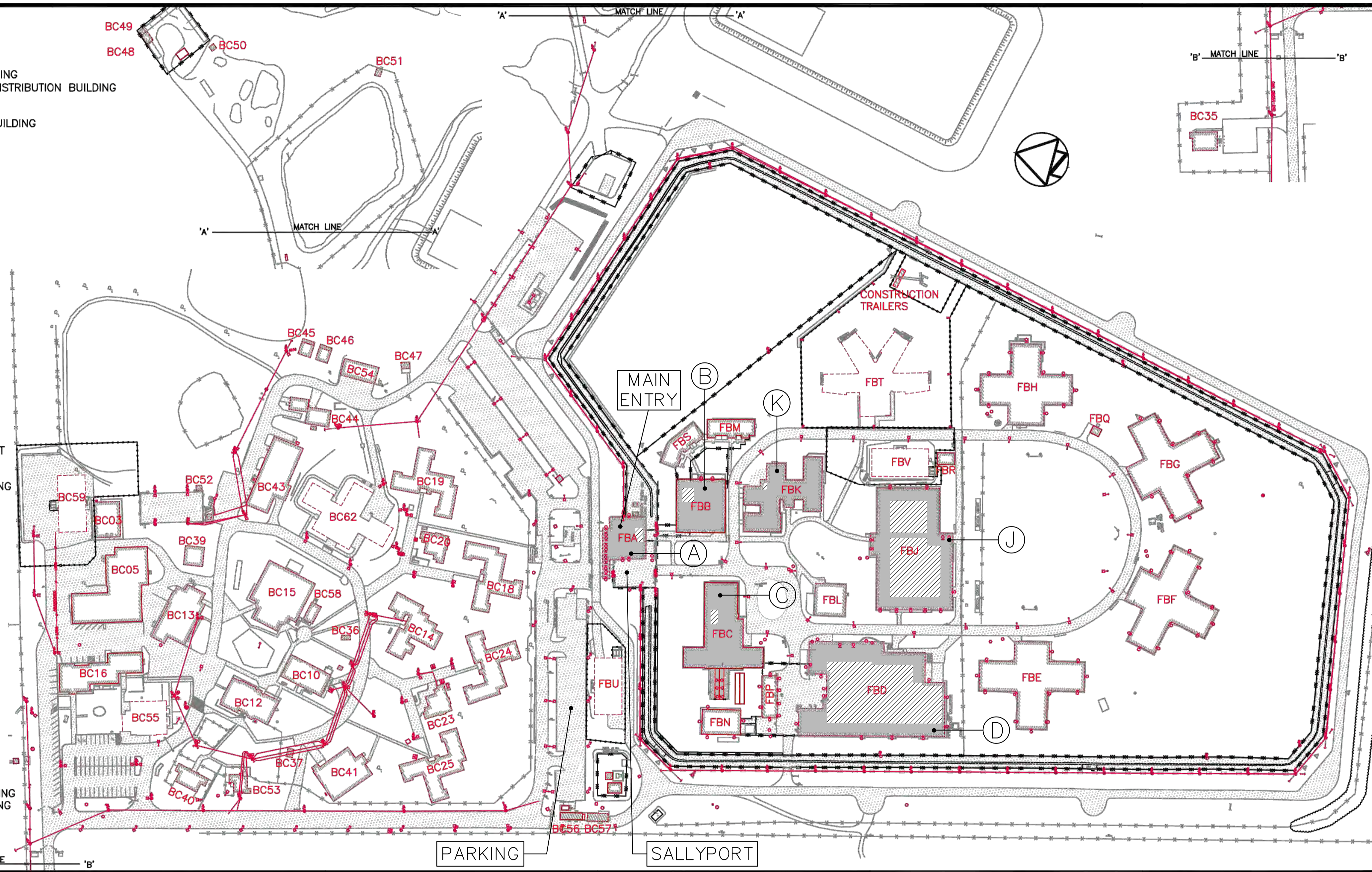
KEY PLAN BEAVER CREEK / FENBROOK INSTITUTION

BEAVER CREEK BUILDING INDEX

- BC03 INFORMATICS AND A & D BUILDING
- BC05 STORES/PROCUREMENT/FOOD DISTRIBUTION BUILDING
- BC10 KITCHEN BUILDING
- BC12 ACTIVITY BUILDING
- BC13 HEALTH SERVICES AND S.I.S. BUILDING
- BC14 ACCOMMODATION UNIT #1
- BC15 RECREATION BUILDING
- BC16 ADMINISTRATION BUILDING
- BC18 ACCOMMODATION UNIT #4
- BC19 ACCOMMODATION UNIT #5
- BC20 NEIGHBOURHOOD BUILDING #2
- BC23 NEIGHBOURHOOD BUILDING #1
- BC24 ACCOMMODATION UNIT #3
- BC25 ACCOMMODATION UNIT #2
- BC35 AIRPORT HOUSE/FINANCE
- BC36 GARBAGE STORAGE BUILDING
- BC37 PICNIC SHELTER
- BC39 FIREHALL
- BC40 FAMILY VISITS
- BC41 PROGRAMS BUILDING
- BC43 WORKS BUILDING
- BC44 COMPOST/SORTING BUILDING
- BC45 STORAGE/GARAGE #1
- BC46 WELDING SHOP
- BC47 INUIT HOBBY/CRAFT BUILDING
- BC48 SMOKE HOUSE (MOBILE)
- BC49 STORAGE SHED (MOBILE)
- BC50 STORAGE SHED
- BC51 STORAGE SHED
- BC52 STORAGE SHED
- BC53 NEW PRIVATE FAMILY VISITS UNIT
- BC54 SAND STORAGE BUILDING
- BC55 FINANCE & PAROLE BUILDING
- BC56 EMERGENCY GENERATOR BUILDING
- BC57 SWITCHGEAR BUILDING
- BC58 GYM BUILDING
- BC59 MULTIPURPOSE BUILDING
- BC62 ACCOMMODATION UNIT #6

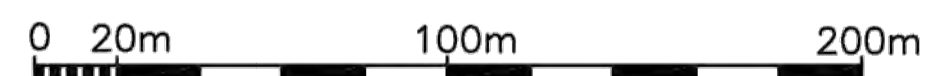
FENBROOK BUILDING INDEX

- FBA GATEHOUSE/ADMISSIONS
- FBB VISITATION & CORRESPONDENCE
- FBC HEALTHCARE & SEGREGATION
- FBD CORCAN/INDUSTRIES
- FBE NON SECURE RESIDENCE
- FBF NON SECURE RESIDENCE
- FBG NON SECURE RESIDENCE
- FBH SECURE RESIDENCE
- FBJ PROGRAMS/GYM
- FBK ADMINISTRATION
- FBL CHAPEL
- FBM FAMILY VISITATION
- FBN CO-GENERATION
- FBP GARAGES
- FBQ SANITARY PUMPING STATION
- FBR INUIT HOBBY/CRAFT BUILDING
- FBS FAMILY VISITATION
- FBT SECURE RESIDENCE T
- FBU EXTERIOR MULTIPURPOSE BUILDING
- FBV INTERIOR MULTIPURPOSE BUILDING



Public Works and Government Services Canada
Architectural and Engineering Services
ONTARIO Region

Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'ONTARIO



FILED: EDRM #74477
UPDATED: JAN. 23, 2013
REVISION NUMBER: 3
PLOT SCALE: NA
SITE VISIT: NA

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BEAVER CREEK INSTITUTION - MEDIUM
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2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
titre du dessin
SITE PLAN

drawn by
dessiné par PWGSC

designed by
conçu par PWGSC

approved by
approuvé par PWGSC

bid offer
offre D.A. project manager
administrateur de projets

project date
date du projet 2017-03-07

project no.
no. du projet R.074360.001

drawing no.
dessiné no. A0.2



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 CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
 titre du dessin
**ROOF DEMOLITION PLAN
 BUILDING D AND KEYPLAN**

drawn by
 dessiné par
 IRC GROUP: F.R.A./B.M.W.

designed by
 conçu par
 IRC GROUP: A.J.D.

approved by
 approuvé par
 IRC GROUP: T.K.C.

bid offer
 D.A. project manager
 administrateur de projets

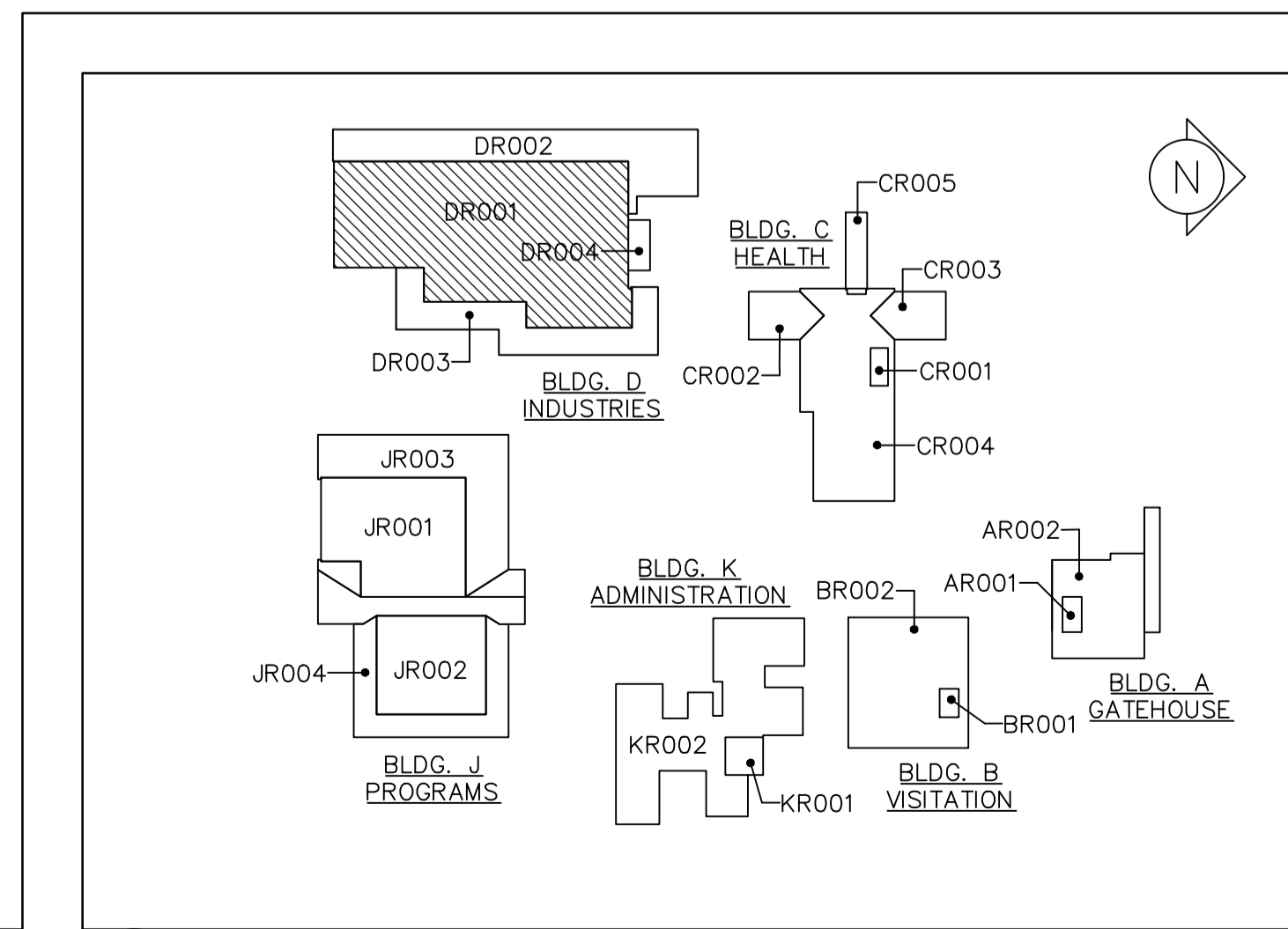
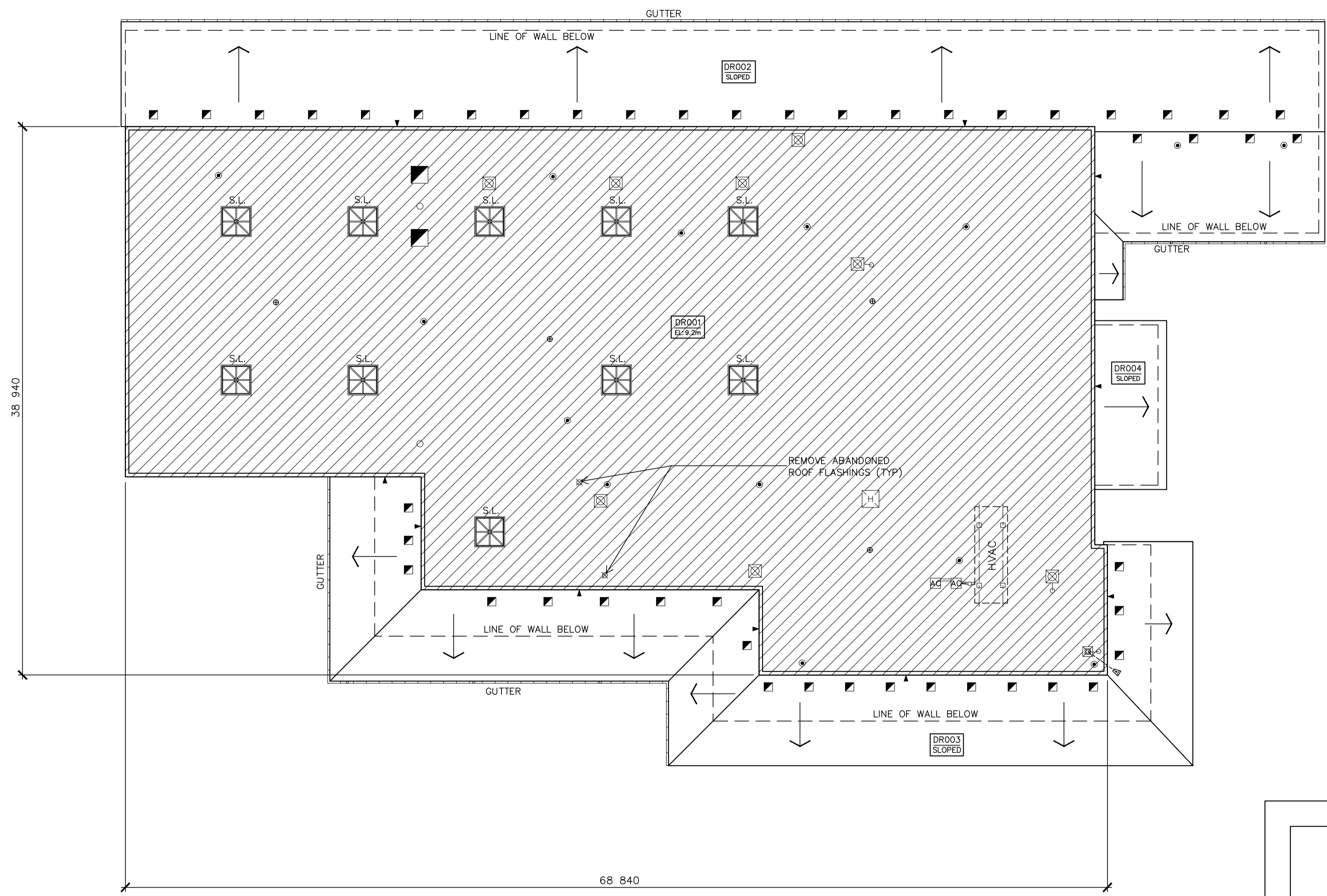
project date
 date du projet
 2017-03-07

project no.
 no. du projet
R.074360.001

drawing no.
 dessin no.
A1.0

EXISTING ROOF COMPOSITION(S):
BUILDING 'D' - INDUSTRIES
ROOF AREA DR001
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING
ROOF AREAS DR002, DR003, & DR004
 METAL DECK
 13 (0.5") PLYWOOD DECK
 1 PLY No. 15 FELT UNDERLAYMENT
 FIBREGLASS SHINGLES

ROOF AREAS SQ. M. (SQ. FT.)
 DR001 - 2,248 (24,200)
 DR002 - 819 (8,816)
 DR003 - 573 (6,168)
 DR004 - 64 (689)
TOTAL = 3,704 (39,873)*
 *PROVIDED AS REFERENCE.
 CONTRACTORS TO CONFIRM
 OWN MEASUREMENTS.



1 BLDG. D PARTIAL ROOF PLAN
 A1.0 SCALE: 1 : 200



2 KEYPLAN
 A1.0 SCALE: N.T.S.

NOTES:
 1. NUMBERS SHOWN ON ROOF REPRESENTING ROOF THICKNESS INDICATE BASE INSULATION THICKNESS ONLY. ADD 31.75(1.25") TO SYSTEM THICKNESS FOR N.V.S. CONCRETE TOP POUR ON TAPERED N.V.S. INSULATION AREAS
 2. VERIFY DRAIN LOCATIONS & NUMBER BEFORE INSTALLATION OF TAPERED N.V.S. INSULATION SYSTEM. REVIEW ANY REQUIRED ADJUSTMENTS AND MODIFICATIONS BEFORE STARTING INSTALLATION.



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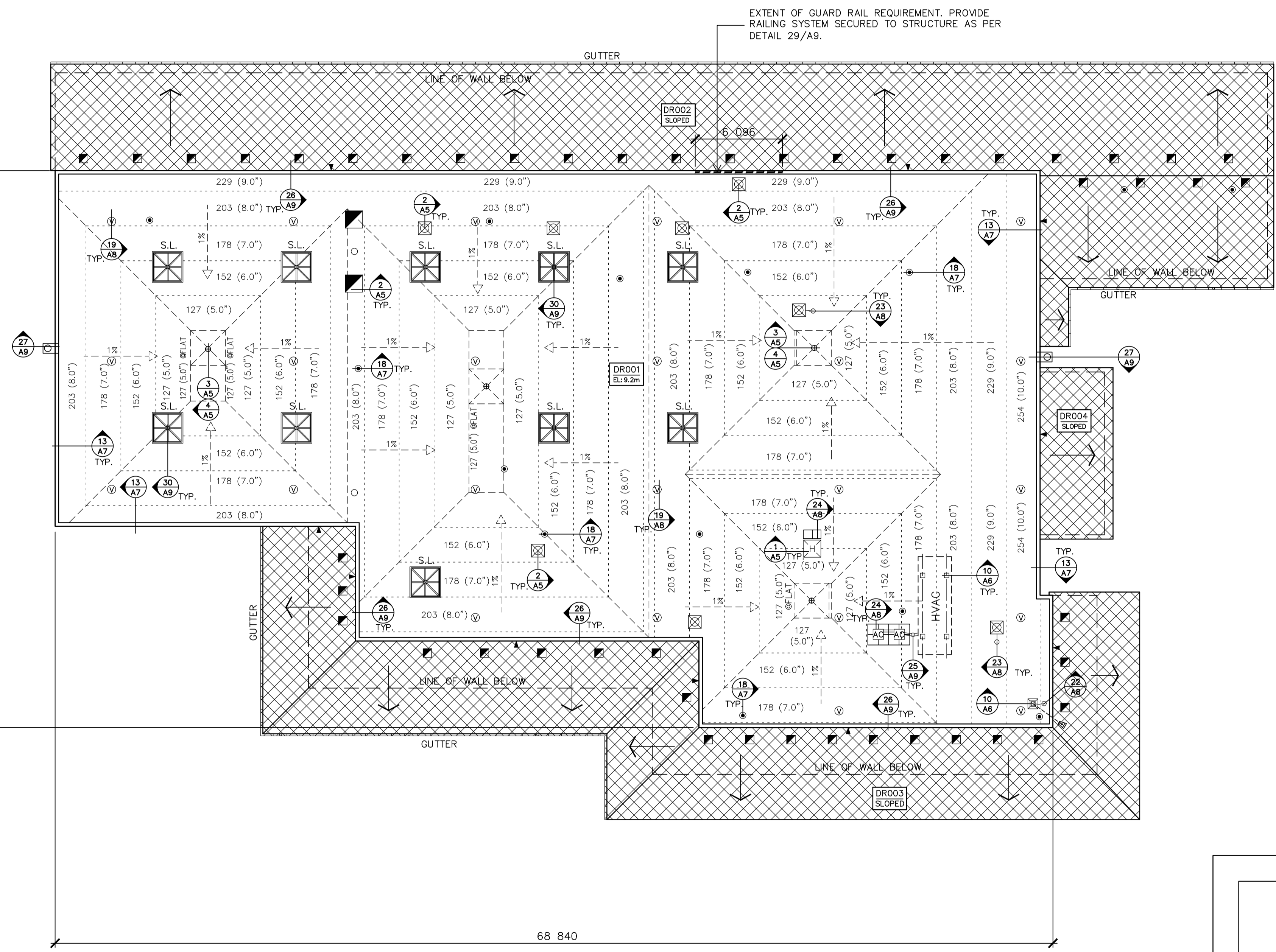
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 BEAVER CREEK INSTITUTION - MEDIUM
 CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
 titre du dessin
**ROOF PLAN
 BUILDING D AND KEYPLAN**

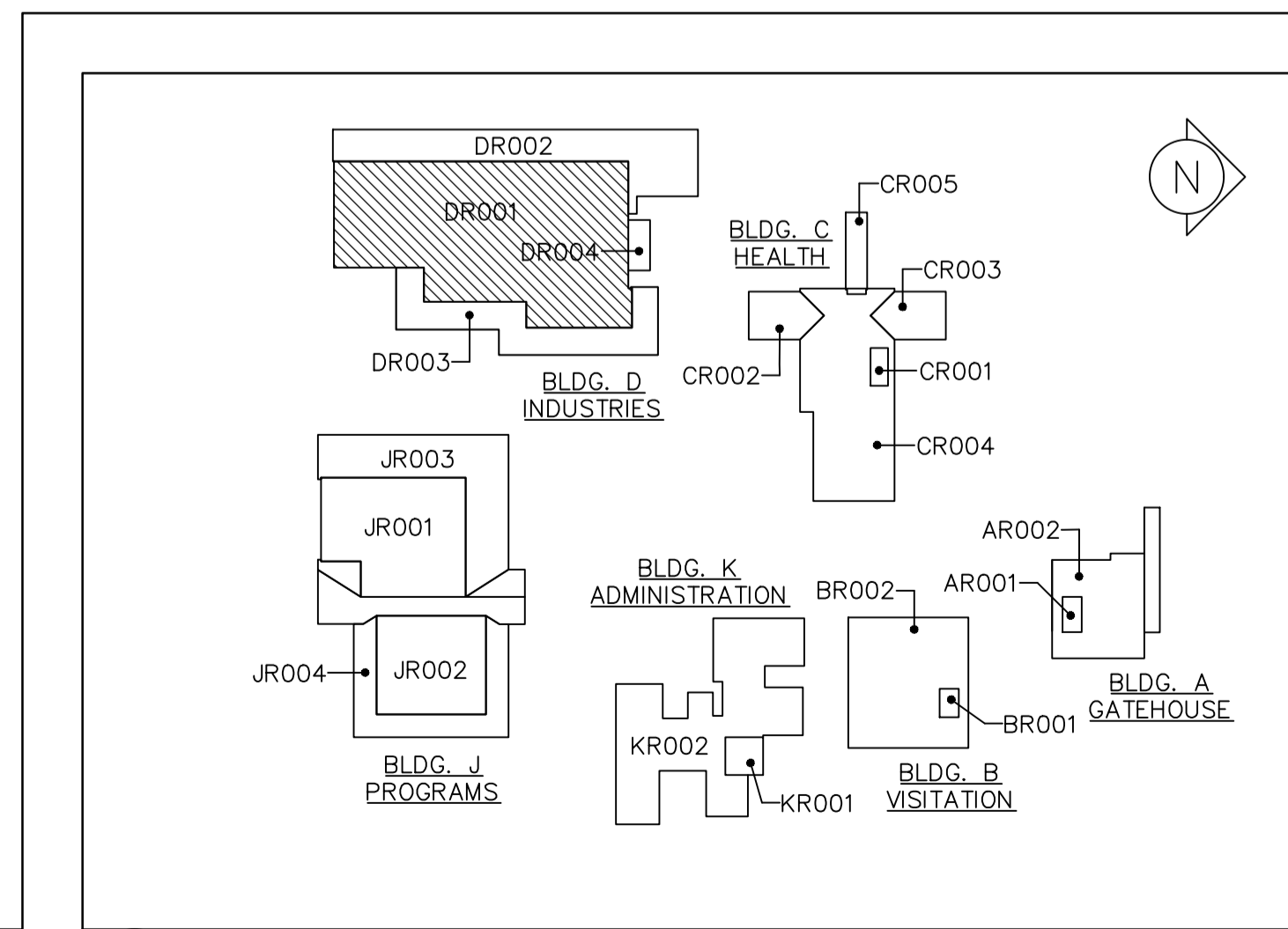
drawn by dessiné par	IRC GROUP: F.R.A./B.M.W.
designed by conçu par	IRC GROUP: A.J.D.
approved by approuvé par	IRC GROUP: T.K.C.
bid offre	D.A. project manager administrateur de projets
project date date du projet	2017-03-07
project no. no. du projet	R.074360.001
drawing no. dessiné no.	A1.1



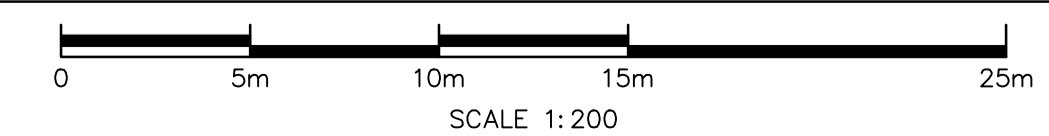
EXISTING ROOF COMPOSITION(S):
 BUILDING 'D' - INDUSTRIES
ROOF AREA DR001
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING
ROOF AREAS DR002, DR003 & DR004
 METAL DECK
 13 (0.5") PLYWOOD DECK
 1 PLY No. 15 FELT UNDERLAYMENT
 FIBREGLASS SHINGLES

NEW ROOF COMPOSITION(S):
 BUILDING 'D' - INDUSTRIES
ROOF AREA DR001
 EXISTING METAL DECK
 13 (0.5") DECK OVERLAY BOARD
 1 PLY MOD. BIT. VAPOUR RETARDER
 TAPERED N.V.S. INSULATION, AVG. RSI 5.28 (R30)
 VENTING BASE SHEET
 2 PLY MODIFIED BITUMEN MEMBRANE

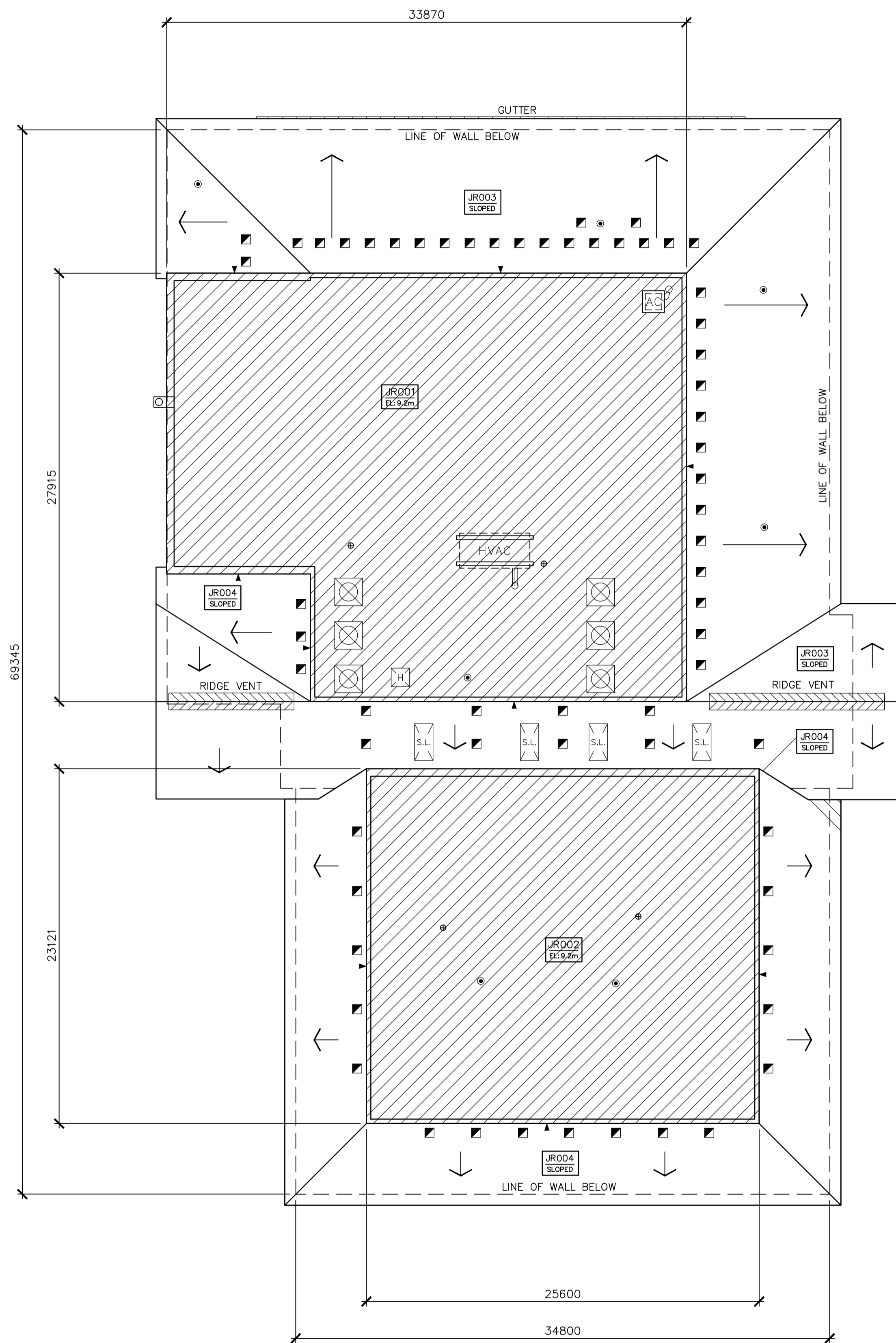
ROOF AREAS SQ. M. (SQ. FT.)
 DR001 - 2,248 (24,200)
 DR002 - 819 (8,816)
 DR003 - 573 (6,168)
 DR004 - 64 (689)
 TOTAL = 3,704 (39,873)*
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1 BLDG. D PARTIAL ROOF PLAN
 A1.1 SCALE: 1 : 200



2 KEYPLAN
 A1.1 SCALE: N.T.S.



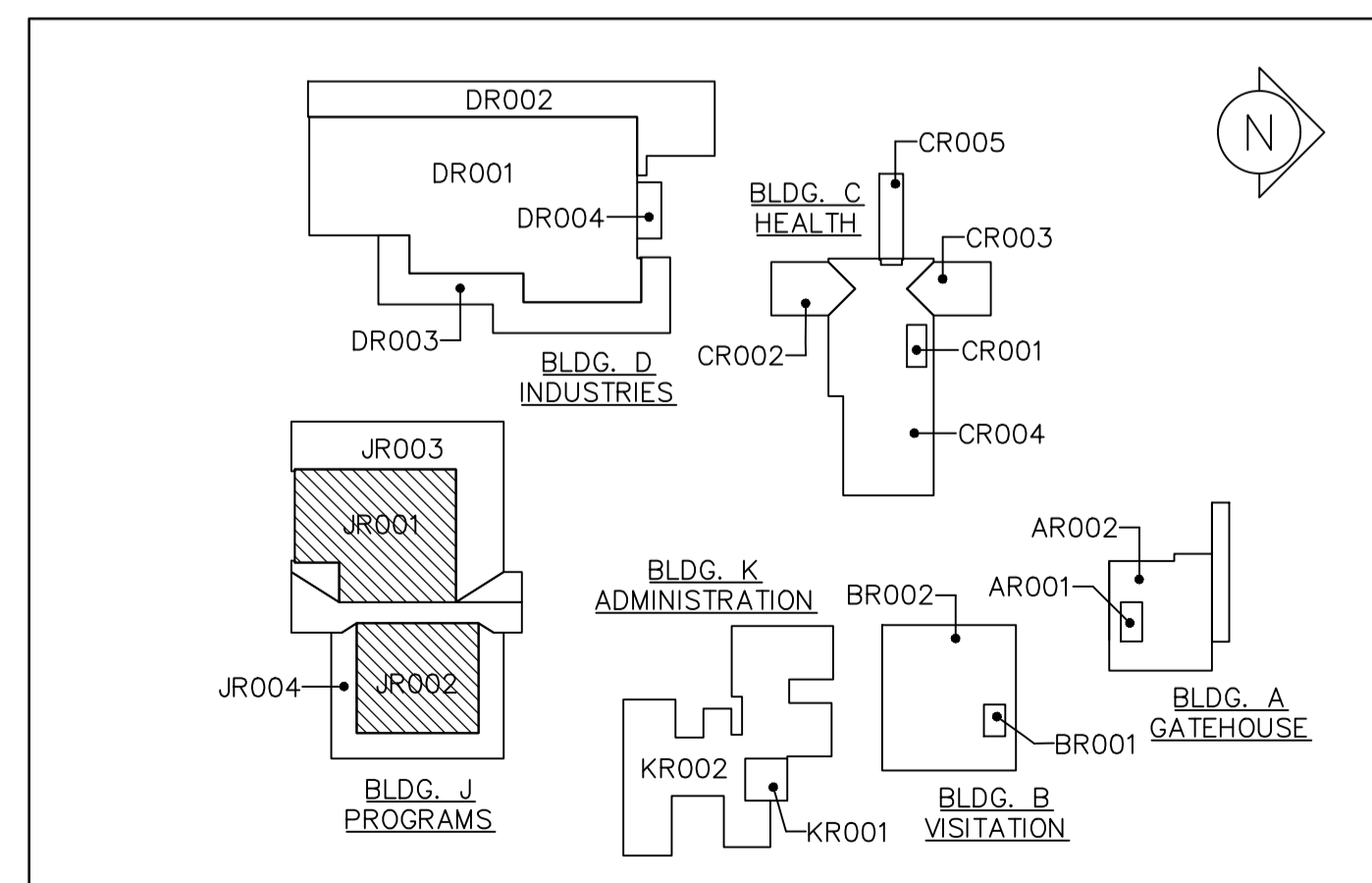
EXISTING ROOF COMPOSITION(S):
BUILDING 'J' - PROGRAMS.
ROOF AREAS JR001 & JR002
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREAS JR003 & JR004
 METAL DECK
 1 PLY POLYETHYLENE VAPOUR RETARDER
 51 (2.0") POLYISOCYANURATE INSULATION
 51 (2.0") POLYISOCYANURATE INSULATION
 13 (0.5") PLYWOOD DECK
 1 PLY No. 15 FELT UNDERLAYMENT
 FIBREGLASS SHINGLES

ROOF AREAS SQ. M. (SQ. FT.)

JR001	-	867	(9,335)
JR002	-	592	(6,371)
JR003	-	824	(8,865)
JR004	-	855	(9,206)
TOTAL		=	3,138 (33,777)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



1 BLDG. J PARTIAL ROOF PLAN
 A2.0 SCALE: 1 : 200



2 KEYPLAN
 A2.0 SCALE: N.T.S.

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 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
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ROOF DEMOLITION PLAN
BUILDING J AND KEYPLAN

drawn by
 dessiné par
 IRC GROUP: F.R.A./B.M.W.

designed by
 conçu par
 IRC GROUP: A.J.D.

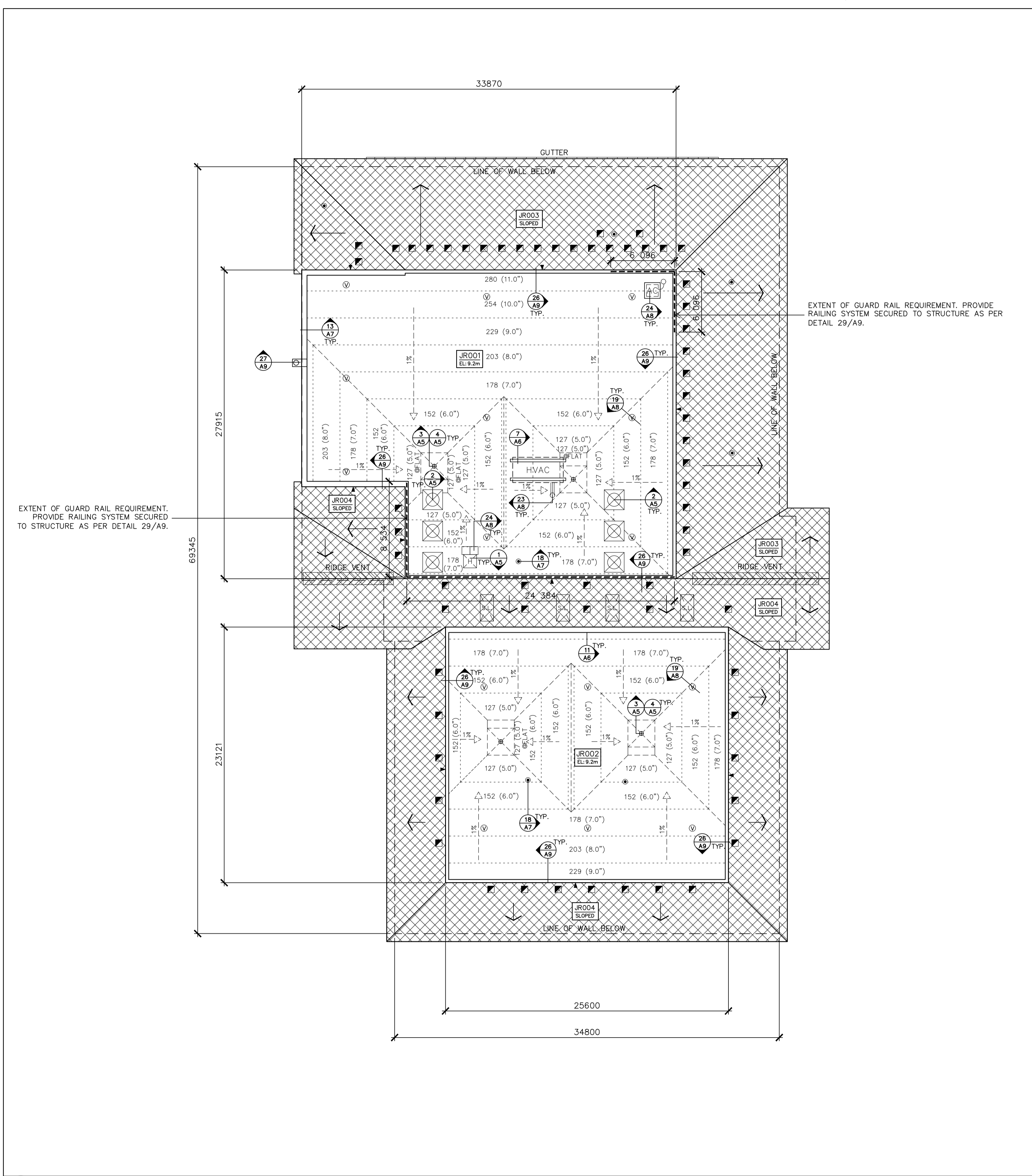
approved by
 approuvé par
 IRC GROUP: T.K.C.

bid
 offre
 D.A. project manager
 administrateur de projets

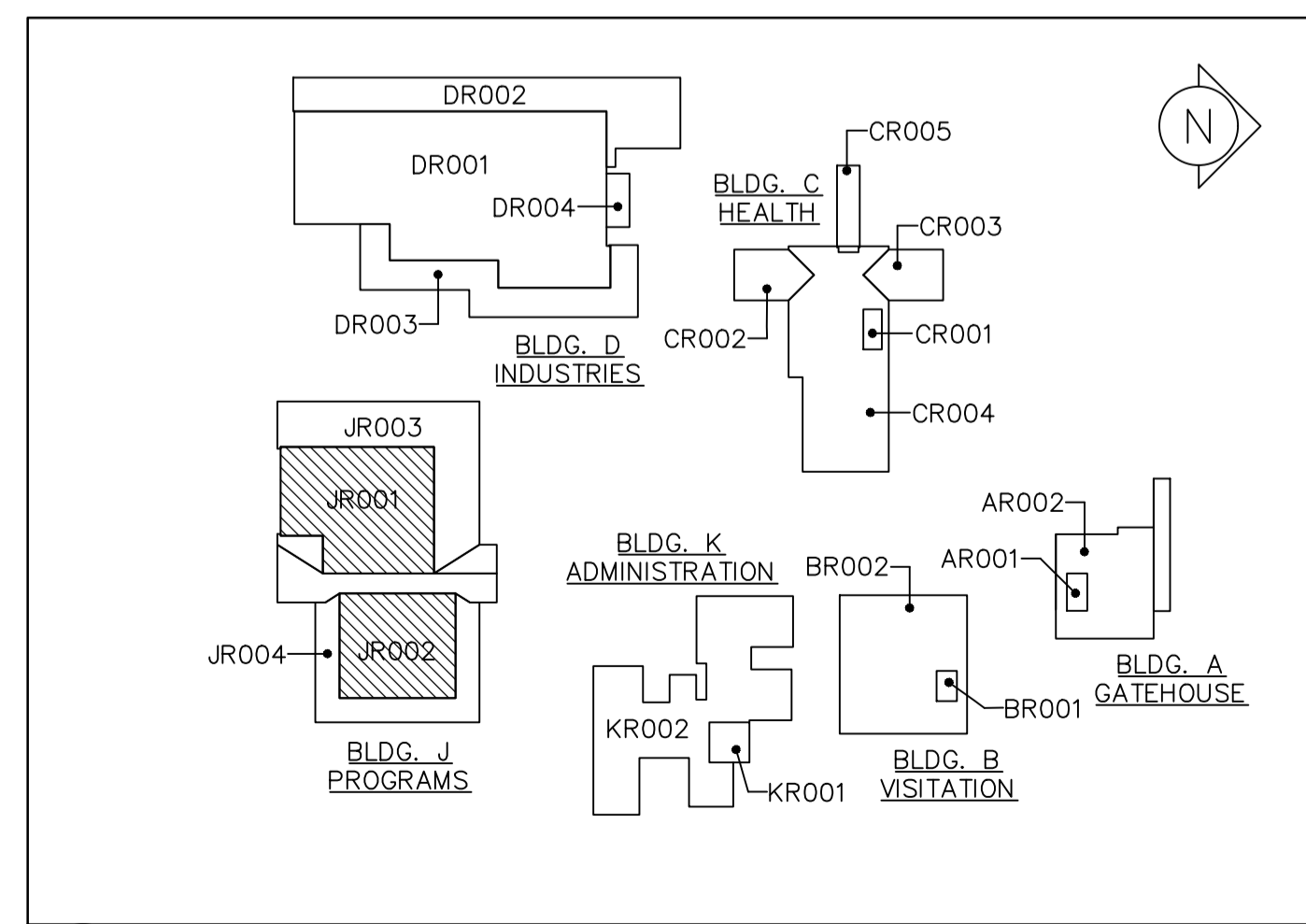
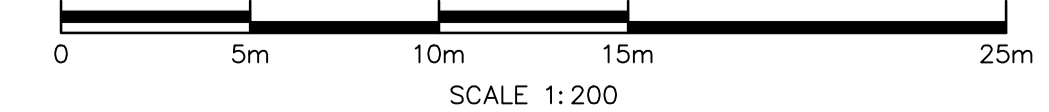
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drawing no.
 dessin no.
 A2.0



1 BLDG. J PARTIAL ROOF PLAN
A2.1 SCALE: 1 : 200



2 KEYPLAN
A2.1 SCALE: N.T.S.

EXISTING ROOF COMPOSITION(S):

BUILDING J – PROGRAMS

ROOF AREAS JR001 & JR002

- METAL DECK
- 1 PLY KRAFT VAPOUR RETARDER
- 89 (3.5") POLYISOCYANURATE INSULATION
- 13 (0.5") FIBREBOARD INSULATION
- 4 PLY ASPHALT B.U.R. MEMBRANE
- ALUMINIZED COATING

ROOF AREAS JR003 & JR004

- METAL DECK
- 1 PLY POLYETHYLENE VAPOUR RETARDER
- 51 (2.0") POLYISOCYANURATE INSULATION
- 51 (2.0") POLYISOCYANURATE INSULATION
- 13 (0.5") PLYWOOD DECK
- 1 PLY No. 15 FELT UNDERLAYMENT
- FIBREGLASS SHINGLES

NEW ROOF COMPOSITION(S):

BUILDING J – PROGRAMS

ROOF AREAS JR001 & JR002

- EXISTING METAL DECK
- 13 (0.5") DECK OVERLAY BOARD
- 1 PLY MOD. BIT. VAPOUR RETARDER
- TAPERED N.V.S. INSULATION, AVG. RSI 5.28 (R30)
- VENTING BASE SHEET
- 2 PLY MODIFIED BITUMEN MEMBRANE

ROOF AREAS SQ. M. (SQ. FT.)

- JR001 – 867 (9,335)
- JR002 – 592 (6,371)
- JR003 – 824 (8,865)
- JR004 – 855 (9,206)

TOTAL = 3,138 (33,777)*

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2000 BEAVER CREEK DRIVE
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ROOF PLAN
BUILDING J AND KEYPLAN

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IRC GROUP: F.R.A./B.M.W.

designed by
conçue par
IRC GROUP: A.J.D.

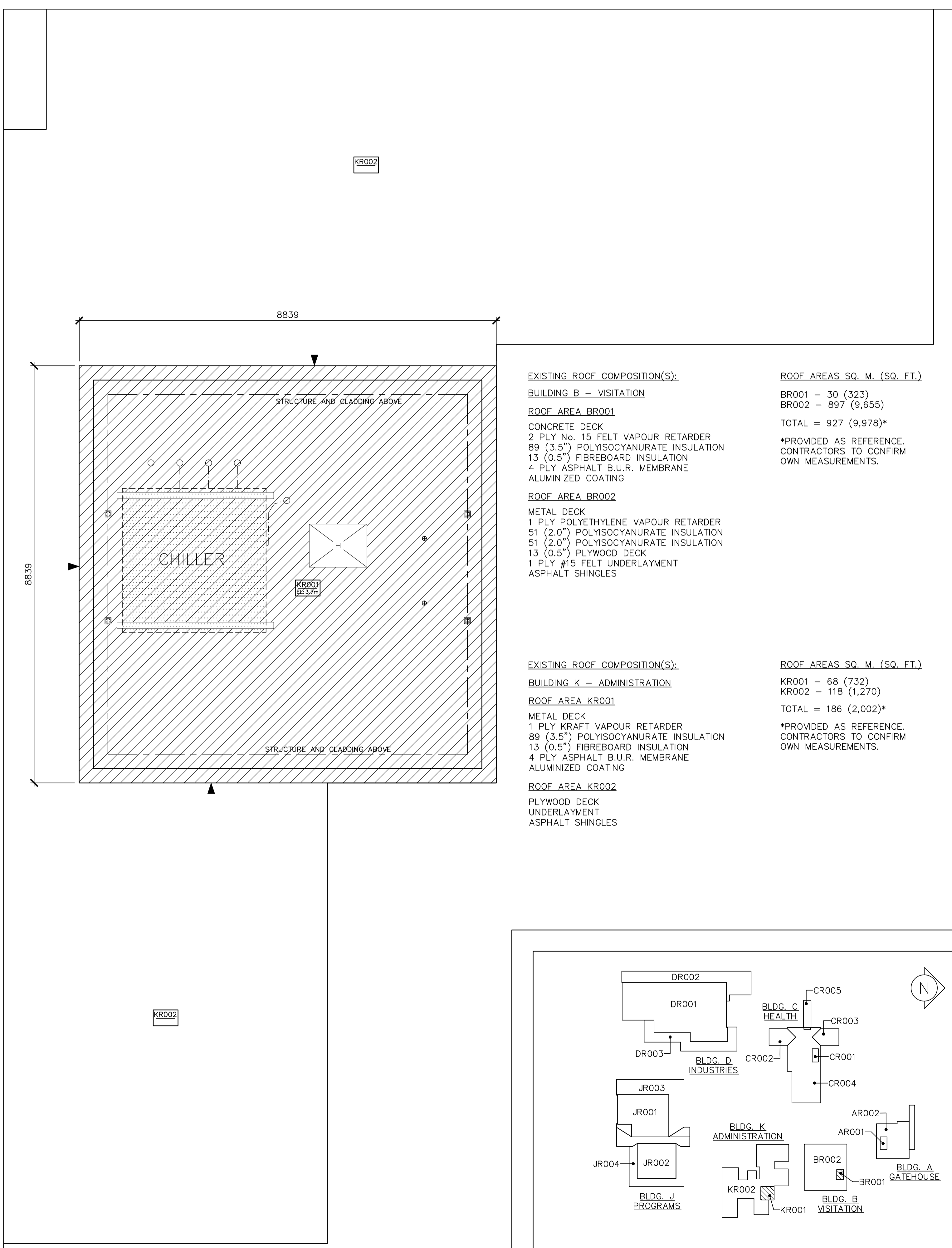
approved by
approuvé par
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D.A. project manager
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drawing no.
dessiné no.
A2.1



EXISTING ROOF COMPOSITION(S):
BUILDING B - VISITATION
ROOF AREA BR001
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREA BR002
 METAL DECK
 1 PLY POLYETHYLENE VAPOUR RETARDER
 51 (2.0") POLYISOCYANURATE INSULATION
 51 (2.0") POLYISOCYANURATE INSULATION
 13 (0.5") PLYWOOD DECK
 1 PLY #15 FELT UNDERLAYMENT
 ASPHALT SHINGLES

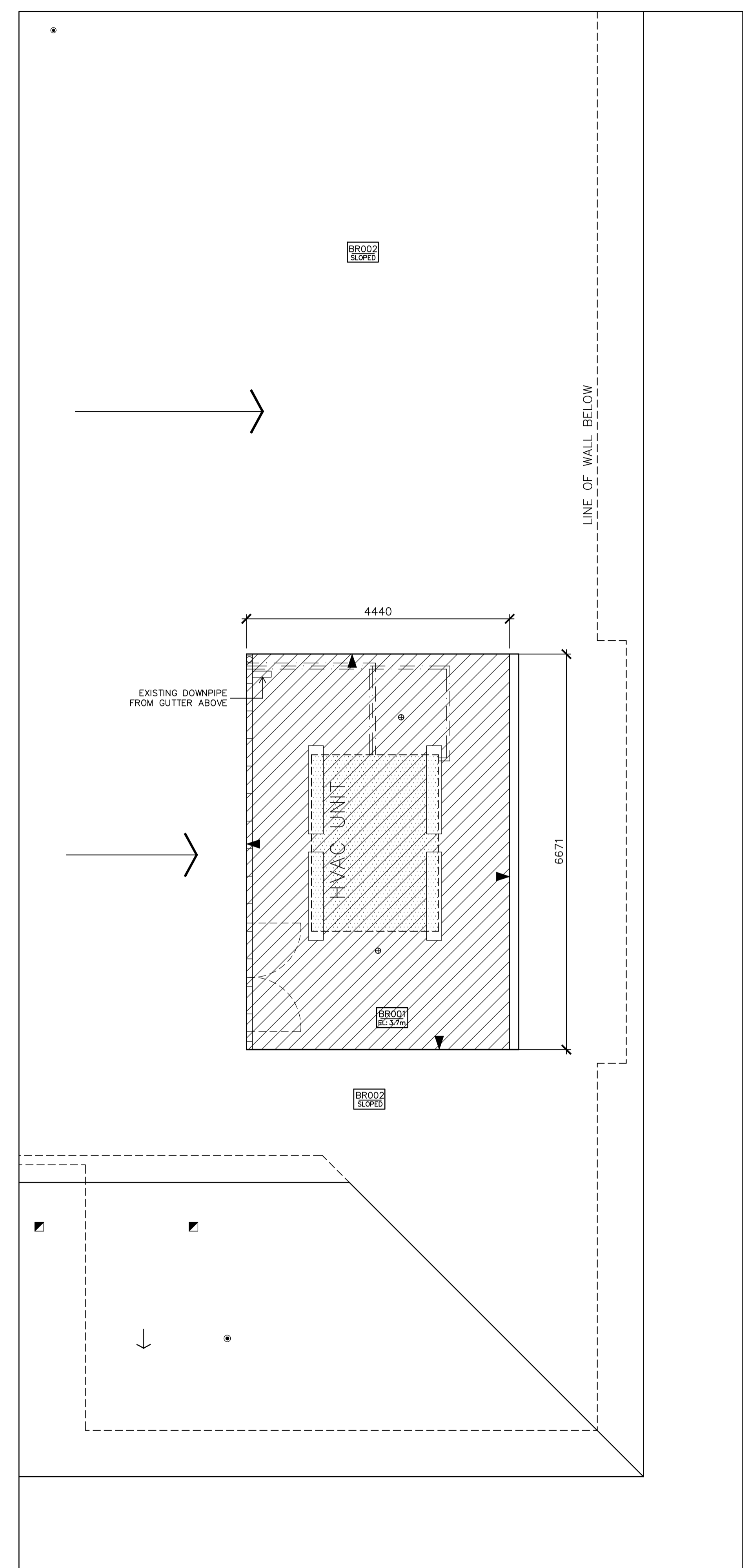
EXISTING ROOF COMPOSITION(S):
BUILDING K - ADMINISTRATION
ROOF AREA KR001
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREA KR002
 PLYWOOD DECK
 UNDERLAYMENT
 ASPHALT SHINGLES

ROOF AREAS SQ. M. (SQ. FT.)
 BR001 - 30 (323)
 BR002 - 897 (9,655)
 TOTAL = 927 (9,978)*

ROOF AREAS SQ. M. (SQ. FT.)
 KR001 - 68 (732)
 KR002 - 118 (1,270)
 TOTAL = 186 (2,002)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



EXISTING ROOF COMPOSITION(S):
BUILDING B - VISITATION
ROOF AREA BR001
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREA BR002
 METAL DECK
 1 PLY POLYETHYLENE VAPOUR RETARDER
 51 (2.0") POLYISOCYANURATE INSULATION
 51 (2.0") POLYISOCYANURATE INSULATION
 13 (0.5") PLYWOOD DECK
 1 PLY #15 FELT UNDERLAYMENT
 ASPHALT SHINGLES

EXISTING ROOF COMPOSITION(S):
BUILDING K - ADMINISTRATION
ROOF AREA KR001
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREA KR002
 PLYWOOD DECK
 UNDERLAYMENT
 ASPHALT SHINGLES

ROOF AREAS SQ. M. (SQ. FT.)
 BR001 - 30 (323)
 BR002 - 897 (9,655)
 TOTAL = 927 (9,978)*

ROOF AREAS SQ. M. (SQ. FT.)
 KR001 - 68 (732)
 KR002 - 118 (1,270)
 TOTAL = 186 (2,002)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.

1 BLDG. K PARTIAL ROOF PLAN
 A3.0 SCALE: 1 : 50

SCALE 1:50
 0 0.5m 1m 2m 3m

2 KEYPLAN
 A3.0 SCALE: N.T.S.

3 BLDG. B PARTIAL ROOF PLAN
 A3.0 SCALE: 1 : 50

SCALE 1:50
 0 0.5m 1m 2m 3m

Public Works and Government Services Canada
 Architectural and Engineering Services
 Ontario Region
 Travaux publics et Services gouvernementaux Canada
 Services d'architecture et de génie
 Région de l'Ontario

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01	ISSUED FOR BID	2017-03-07
revision		date

Do not scale drawings.
 Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title
 titre du projet
GRAVENHURST Ontario
BEAVER CREEK INSTITUTION - MEDIUM
CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
 titre du dessin
PARTIAL ROOF DEMOLITION PLAN
BUILDINGS B & K AND KEYPLAN

drawn by
 dessiné par
 IRC GROUP: F.R.A./B.M.W.

designed by
 conçu par
 IRC GROUP: A.J.D.

approved by
 approuvé par
 IRC GROUP: T.K.C.

bid
 offre
 D.A. project manager
 administrateur de projets

project date
 date du projet
 2017-03-07

project no.
 no. du projet
 R.074360.001

drawing no.
 dessiné no.
 A3.0

NOTES:
 1. NUMBERS SHOWN ON ROOF REPRESENTING ROOF THICKNESS INDICATE BASE INSULATION THICKNESS ONLY. ADD 31.75(1.25") TO SYSTEM THICKNESS FOR N.V.S. CONCRETE TOP POUR ON TAPERED N.V.S. INSULATION AREAS.
 2. VERIFY DRAIN LOCATIONS & NUMBER BEFORE INSTALLATION OF TAPERED N.V.S. INSULATION SYSTEM. REVIEW ANY REQUIRED ADJUSTMENTS AND MODIFICATIONS BEFORE STARTING INSTALLATION.



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 BEAVER CREEK INSTITUTION - MEDIUM
 CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
 titre du dessin
**PARTIAL ROOF PLAN
 BUILDINGS B & K AND KEYPLAN**

drawn by
 dessiné par
 IRC GROUP: F.R.A./B.M.W.

designed by
 conçu par
 IRC GROUP: A.J.D.

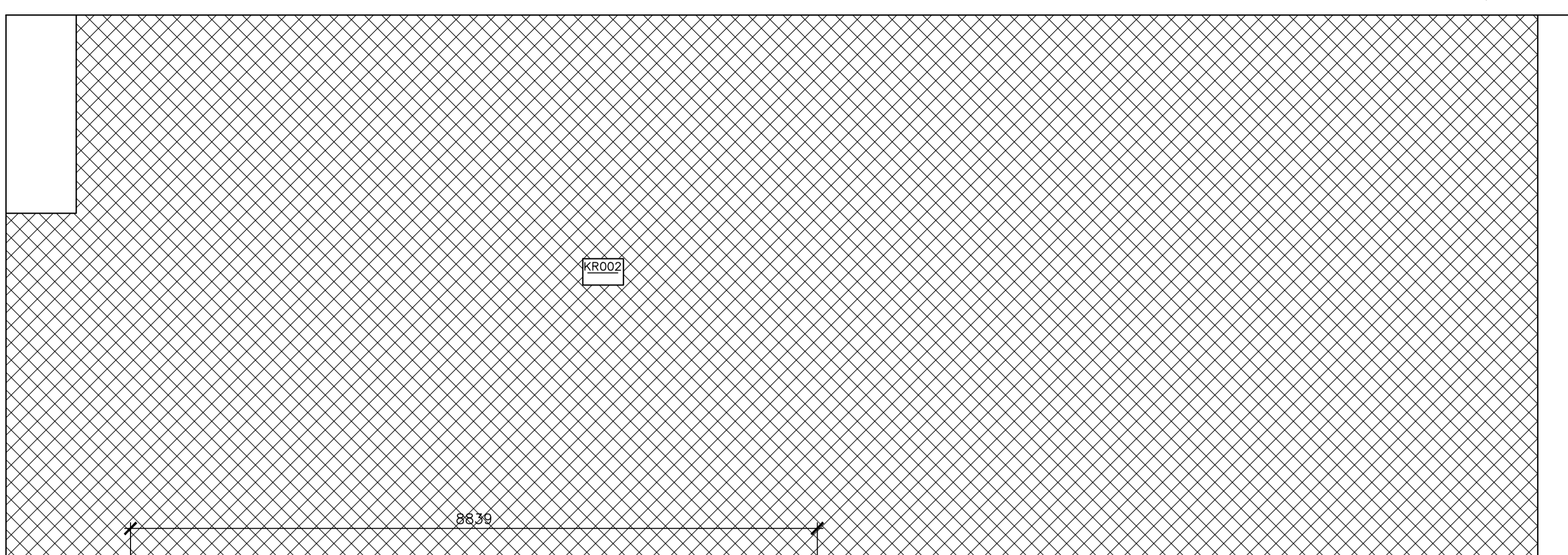
approved by
 approuvé par
 IRC GROUP: T.K.C.

bid offer
 D.A. project manager
 administrateur de projets

project date
 date du projet
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project no.
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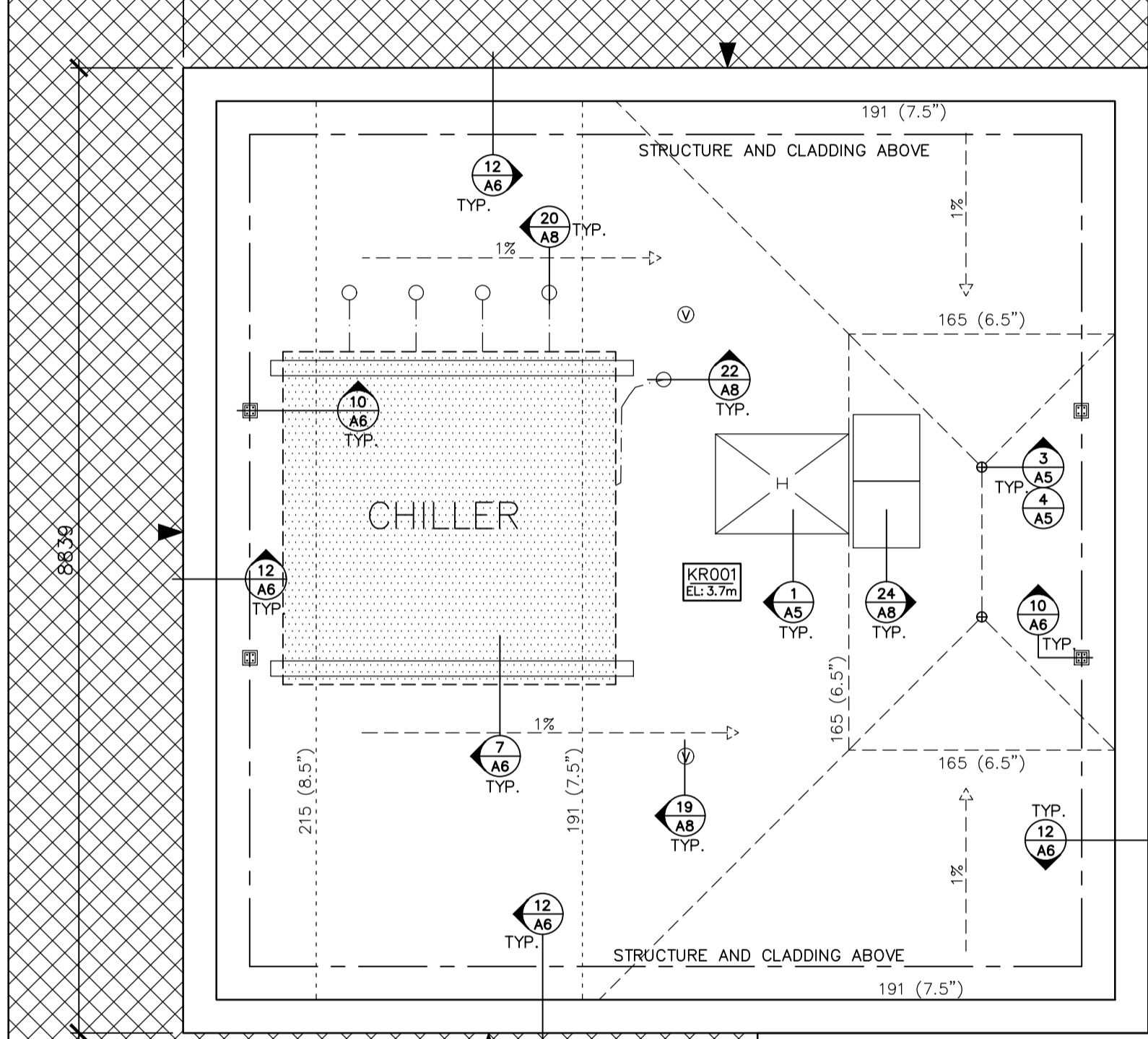
drawing no.
 dessiné no.
A3.1



EXISTING ROOF COMPOSITION(S):
BUILDING B - VISITATION
ROOF AREA BR001
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING
ROOF AREA BR002
 METAL DECK
 1 PLY POLYETHYLENE VAPOUR RETARDER
 51 (2.0") POLYISOCYANURATE INSULATION
 51 (2.0") POLYISOCYANURATE INSULATION
 13 (0.5") PLYWOOD DECK
 1 PLY No. 15 FELT UNDERLAYMENT
 ASPHALT SHINGLES

NEW ROOF COMPOSITION(S):
BUILDING B - VISITATION
ROOF AREA BR001
 EXISTING CONCRETE DECK
 1 PLY MOD. BIT. VAPOUR RETARDER
 TAPERED N.V.S. INSULATION
 AVG. RSI 5.28 (R30)
 VENTING BASE SHEET
 2 PLY MODIFIED BITUMEN MEMBRANE

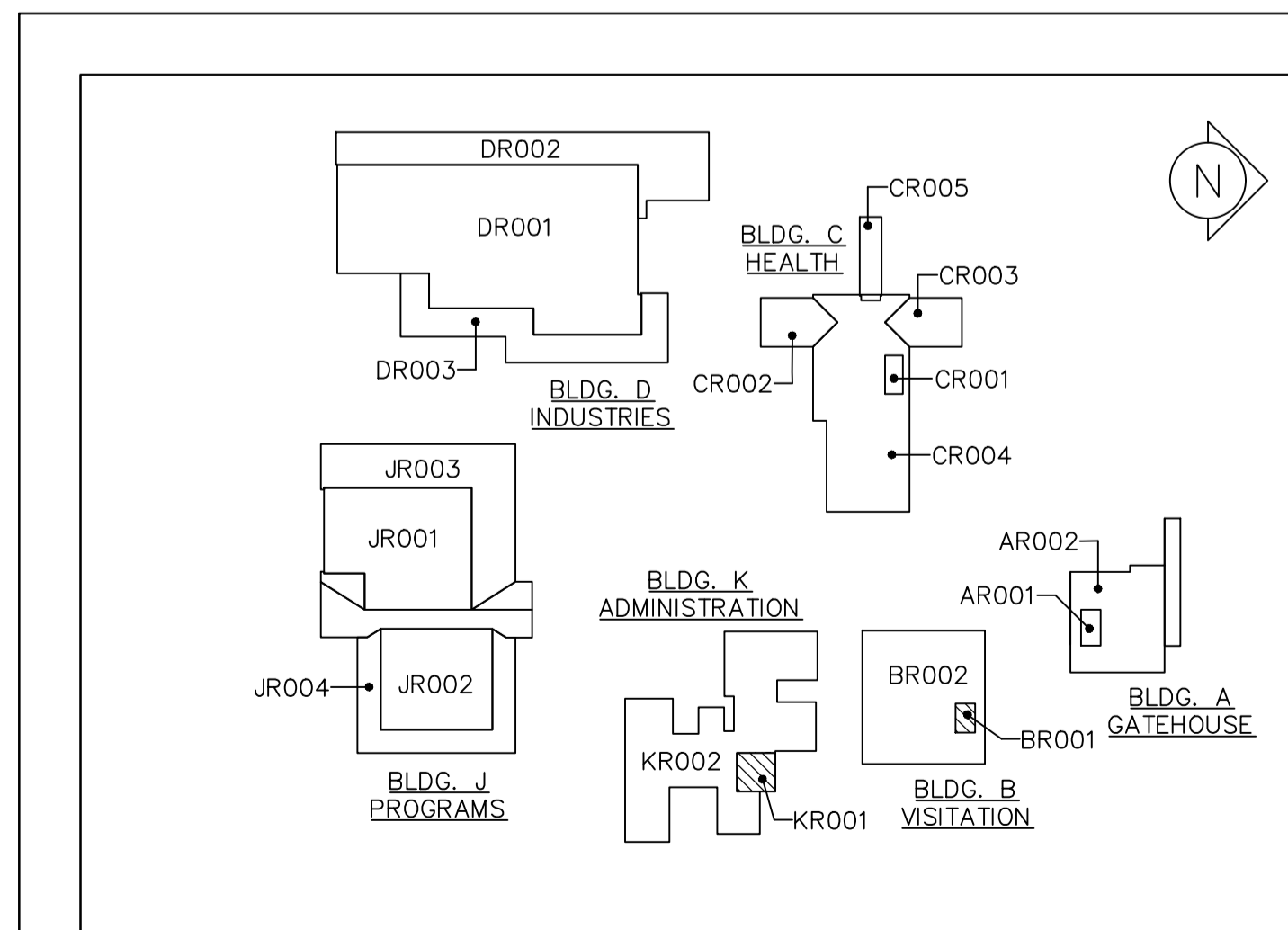
ROOF AREAS SQ. M. (SQ. FT.)
 BR001 - 30 (323)
 BR002 - 897 (9,655)
 TOTAL = 927 (9,978)*
 *PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



EXISTING ROOF COMPOSITION(S):
BLDG. K - ADMINISTRATION
ROOF AREA KR001
 METAL DECK
 1 PLY KRAFT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING
ROOF AREA KR002
 PLYWOOD DECK
 UNDERLAYMENT
 ASPHALT SHINGLES

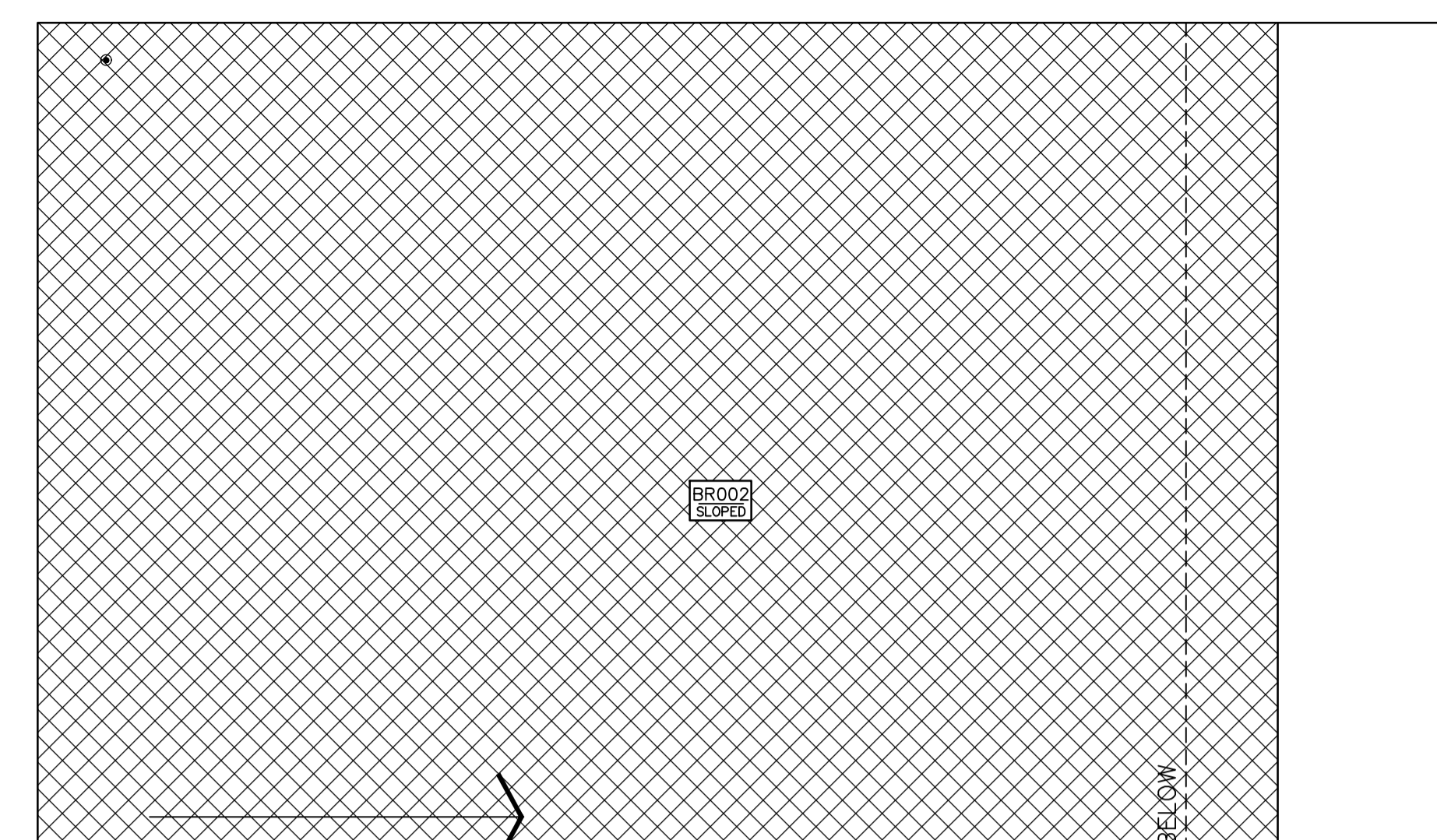
NEW ROOF COMPOSITION(S):
BLDG. K - ADMINISTRATION
ROOF AREA KR001
 EXISTING METAL DECK
 13 (0.5") DECK OVERLAY BOARD
 1 PLY MOD. BIT. VAPOUR RETARDER
 TAPERED N.V.S. INSULATION
 AVG. RSI 5.28 (R30)
 VENTING BASE SHEET
 2 PLY MODIFIED BITUMEN MEMBRANE

ROOF AREAS SQ. M. (SQ. FT.)
 KR001 - 68 (732)
 KR002 - 118 (1,270)
 TOTAL = 186 (2,002)*
 *PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



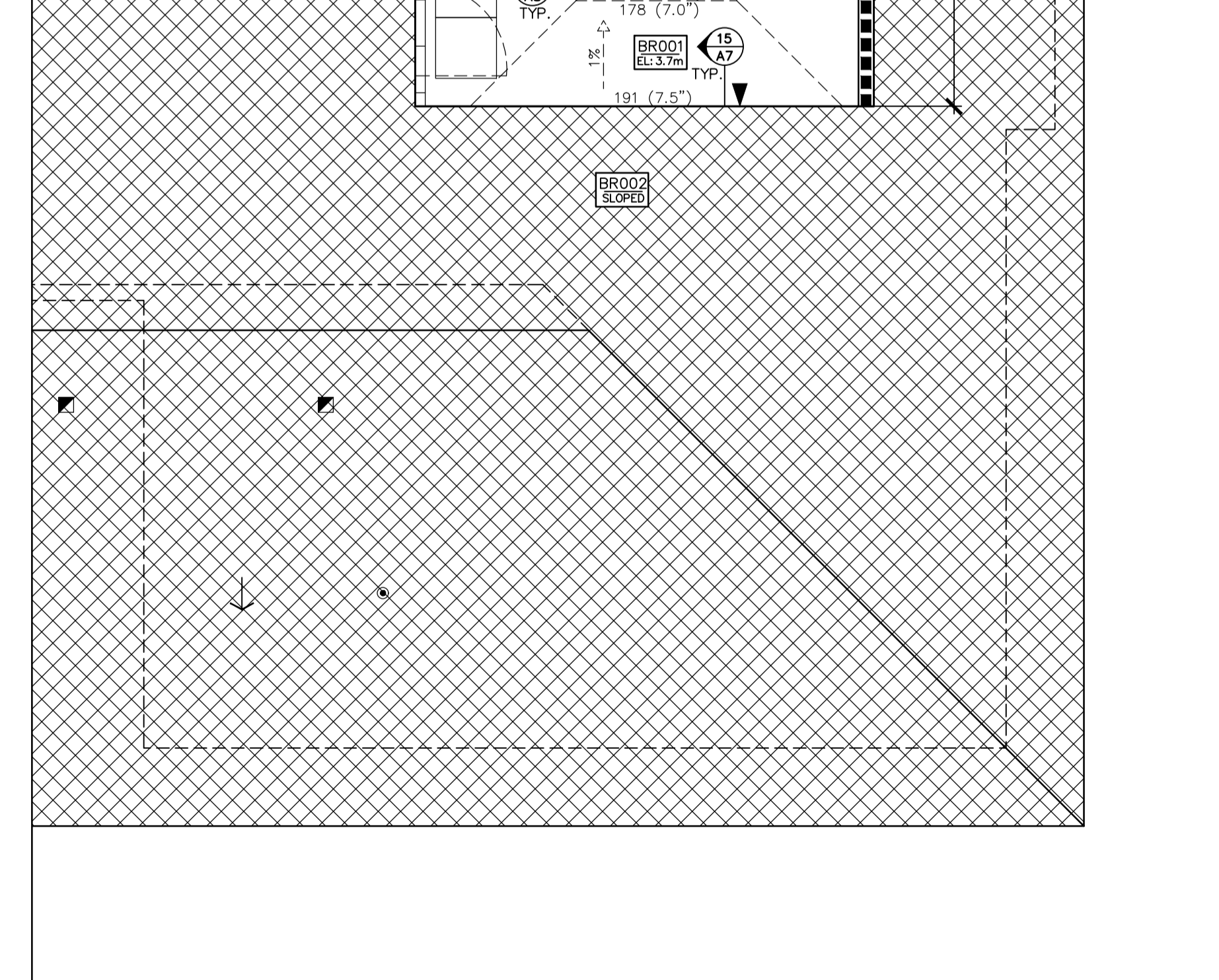
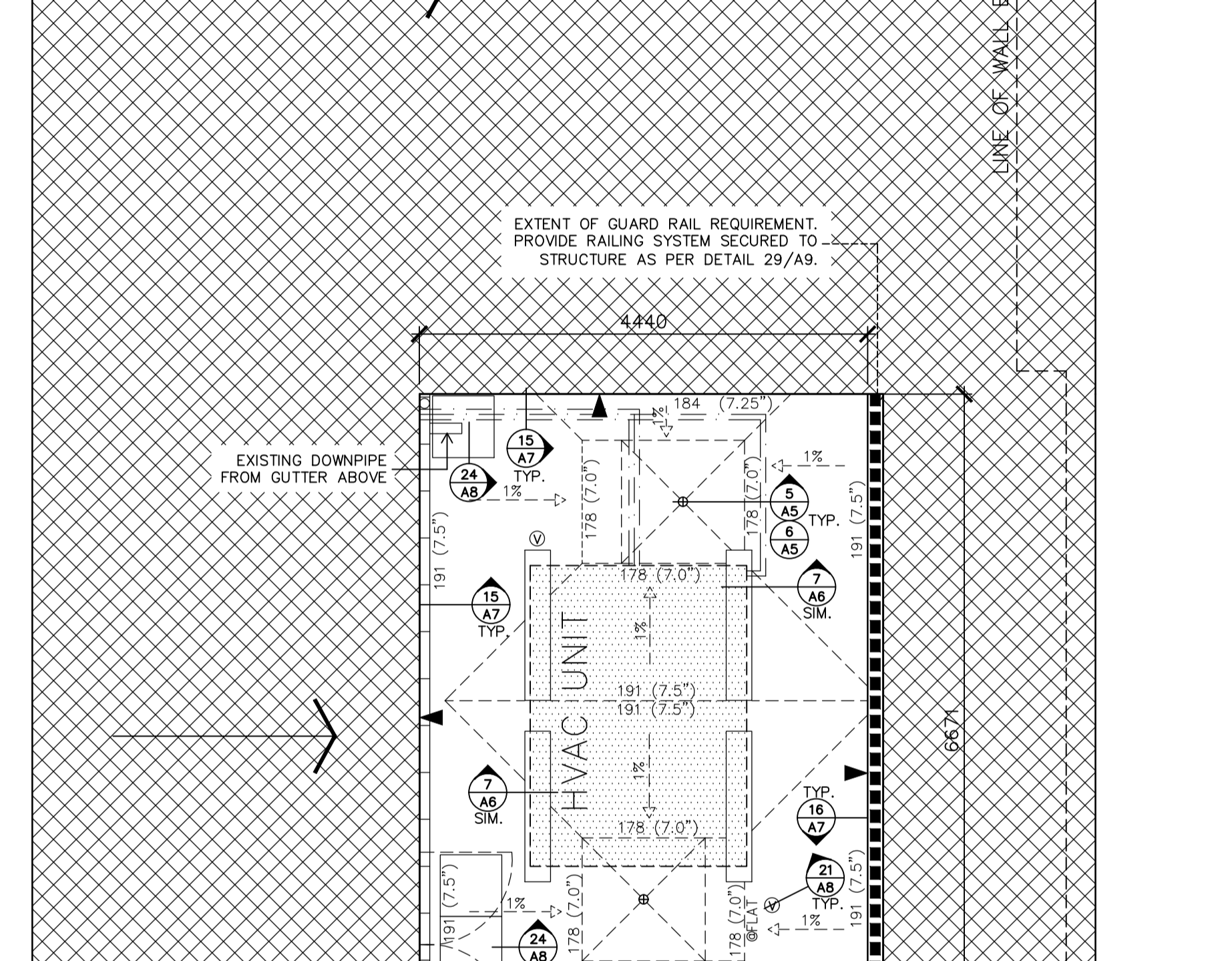
1 BLDG. K PARTIAL ROOF PLAN
 A3.1 SCALE: 1 : 50
 SCALE 1:50

2 KEYPLAN
 A3.1 SCALE: N.T.S.



EXISTING ROOF COMPOSITION(S):
BUILDING B - VISITATION
ROOF AREA BR001
 EXISTING CONCRETE DECK
 1 PLY MOD. BIT. VAPOUR RETARDER
 TAPERED N.V.S. INSULATION
 AVG. RSI 5.28 (R30)
 VENTING BASE SHEET
 2 PLY MODIFIED BITUMEN MEMBRANE

ROOF AREAS SQ. M. (SQ. FT.)
 BR001 - 30 (323)
 BR002 - 897 (9,655)
 TOTAL = 927 (9,978)*
 *PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



3 BLDG. B PARTIAL ROOF PLAN
 A3.1 SCALE: 1 : 50
 SCALE 1:50



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GRAVENHURST Ontario
 BEAVER CREEK INSTITUTION - MEDIUM
 CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
 titre du dessin
**PARTIAL ROOF DEMOLITION PLAN
 BUILDINGS A & C AND KEYPLAN**

drawn by
 dessiné par
 IRC GROUP: F.R.A./B.M.W.

designed by
 conçu par
 IRC GROUP: A.J.D.

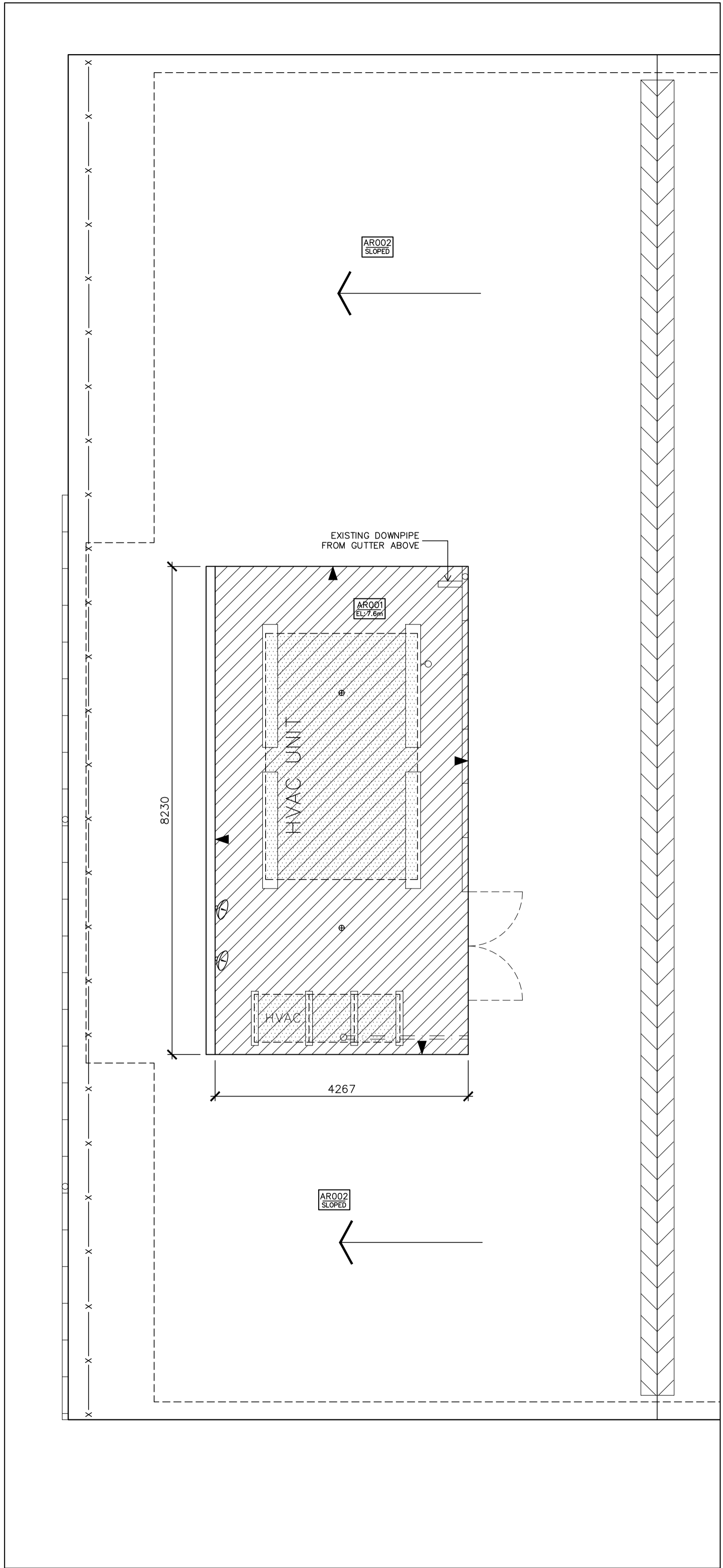
approved by
 approuvé par
 IRC GROUP: T.K.C.

bid
 offre
 D.A. project manager
 administrateur de projets

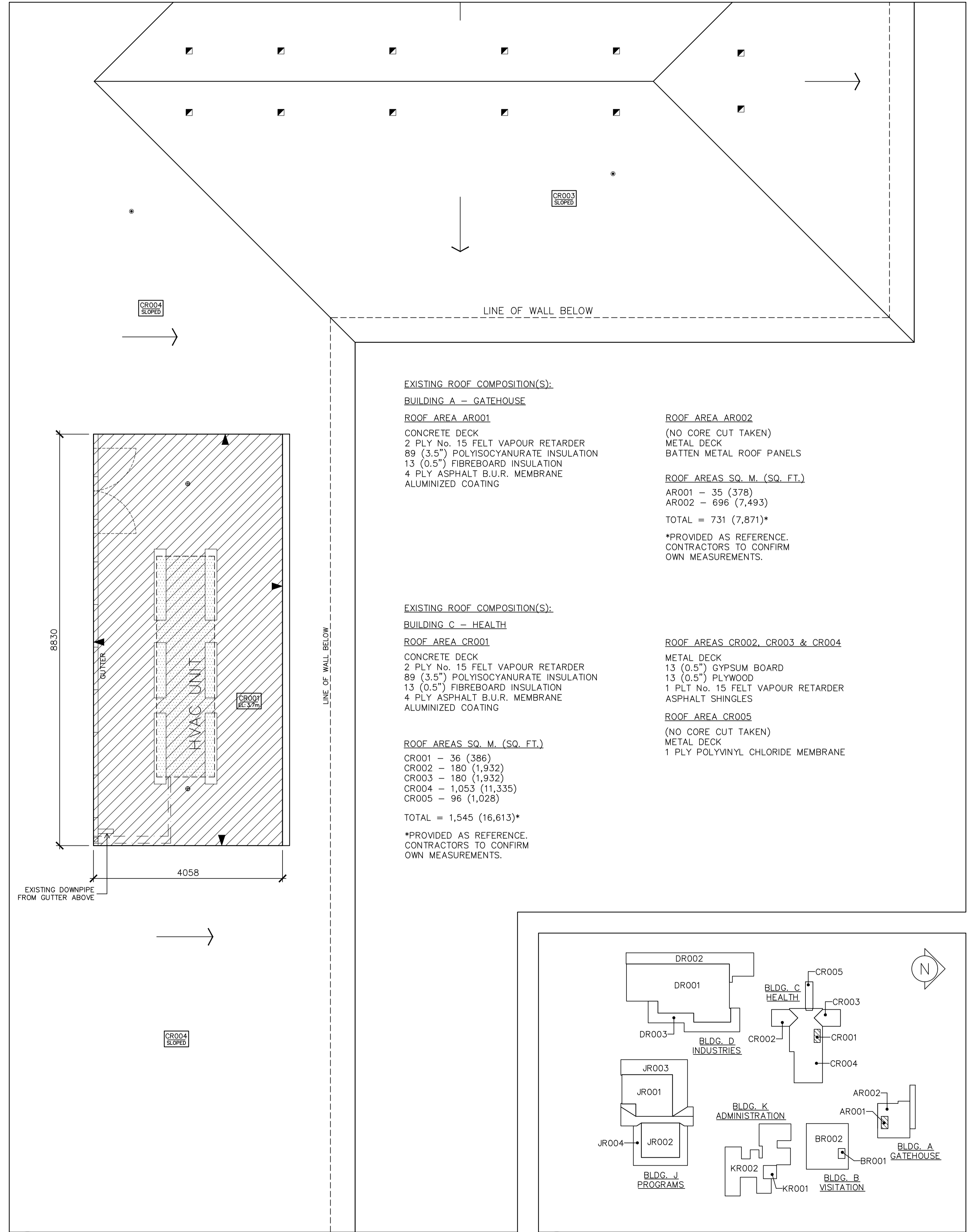
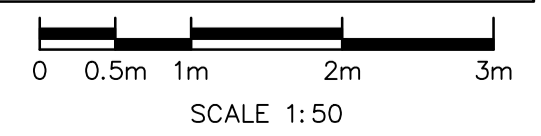
project date
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 2017-03-07

project no.
 no. du projet
 R.074360.001

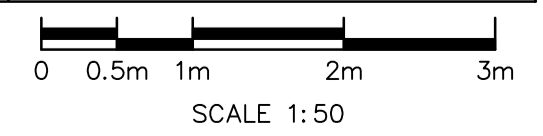
drawing no.
 dessiné no.
 A4.0



1 BLDG. A PARTIAL ROOF PLAN
 A4.0 SCALE: 1 : 50



2 BLDG. C PARTIAL ROOF PLAN
 A4.0 SCALE: 1 : 50



EXISTING ROOF COMPOSITION(S):

BUILDING A - GATEHOUSE

- ROOF AREA AR001**
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

- ROOF AREA AR002**
 (NO CORE CUT TAKEN)
 METAL DECK
 BATTEN METAL ROOF PANELS

ROOF AREAS SQ. M. (SQ. FT.)

- AR001 - 35 (378)
 AR002 - 696 (7,493)
 TOTAL = 731 (7,871)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.

EXISTING ROOF COMPOSITION(S):

BUILDING C - HEALTH

- ROOF AREA CR001**
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

- ROOF AREAS CR002, CR003 & CR004**
 METAL DECK
 13 (0.5") GYPSUM BOARD
 13 (0.5") PLYWOOD
 1 PLT No. 15 FELT VAPOUR RETARDER
 ASPHALT SHINGLES

ROOF AREA CR005

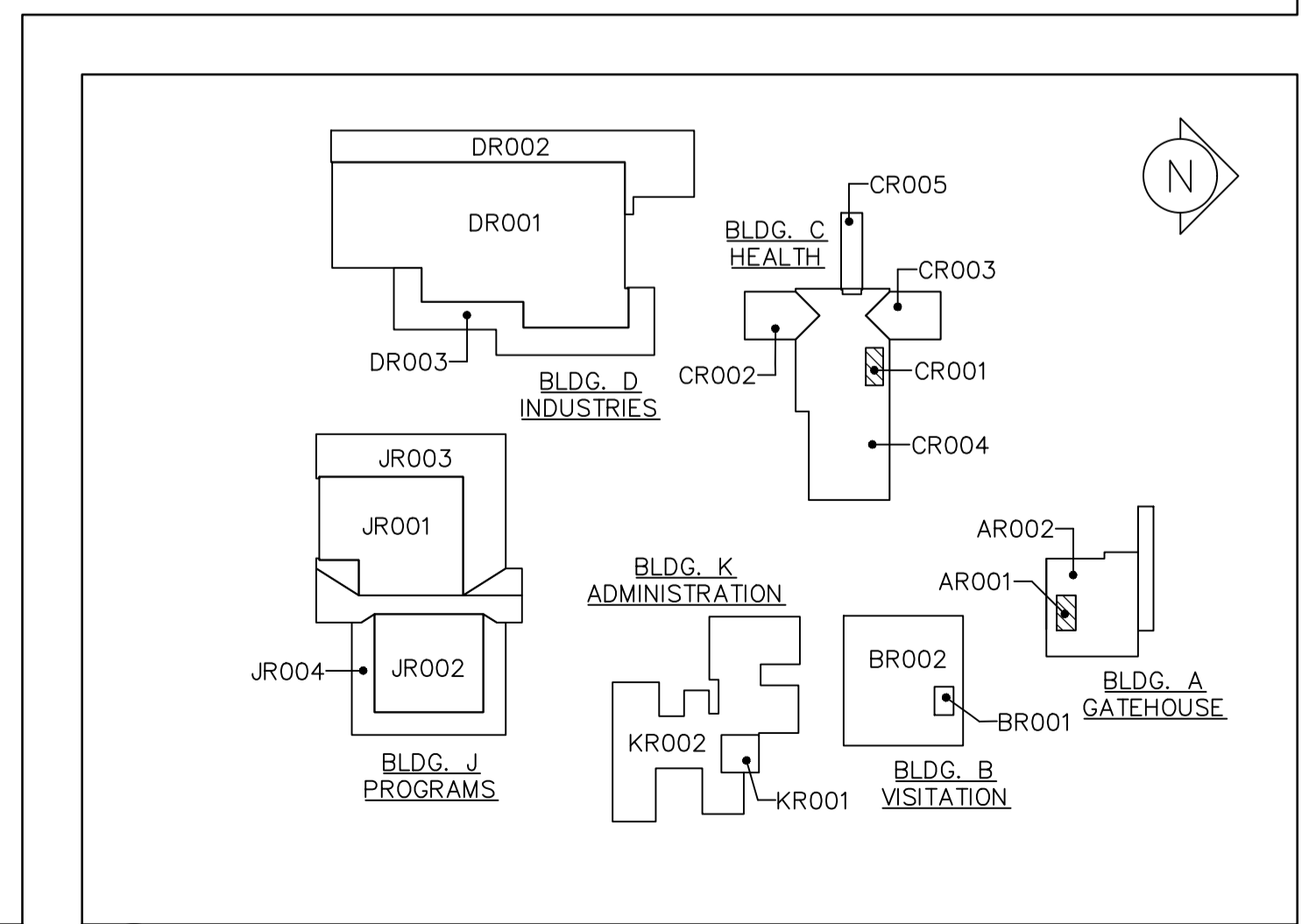
- (NO CORE CUT TAKEN)
 METAL DECK
 1 PLY POLYVINYL CHLORIDE MEMBRANE

ROOF AREAS SQ. M. (SQ. FT.)

- CR001 - 36 (386)
 CR002 - 180 (1,932)
 CR003 - 180 (1,932)
 CR004 - 1,053 (11,335)
 CR005 - 96 (1,028)

TOTAL = 1,545 (16,613)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.



3 KEYPLAN
 A4.0 SCALE: N.T.S.

NOTES:

- NUMBERS SHOWN ON ROOF REPRESENTING ROOF THICKNESS INDICATE BASE INSULATION THICKNESS ONLY. ADD 31.75(1.25") TO SYSTEM THICKNESS FOR N.V.S CONCRETE TOP POUR ON TAPERED N.V.S INSULATION AREAS.
- VERIFY DRAIN LOCATIONS & NUMBER BEFORE INSTALLATION OF TAPERED N.V.S INSULATION SYSTEM. REVIEW ANY REQUIRED ADJUSTMENTS AND MODIFICATIONS BEFORE STARTING INSTALLATION.



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	B	drawing no. - where detail required dessin no. - où détail exigé
	C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
GRAVENHURST Ontario
BEAVER CREEK INSTITUTION - MEDIUM
CORRECTIONAL SERVICE CANADA
 2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
titre du dessin
PARTIAL ROOF PLAN
BUILDINGS A & C AND KEYPLAN

drawn by
dessiné par
IRC GROUP: F.R.A./B.M.W.

designed by
conçu par
IRC GROUP: A.J.D.

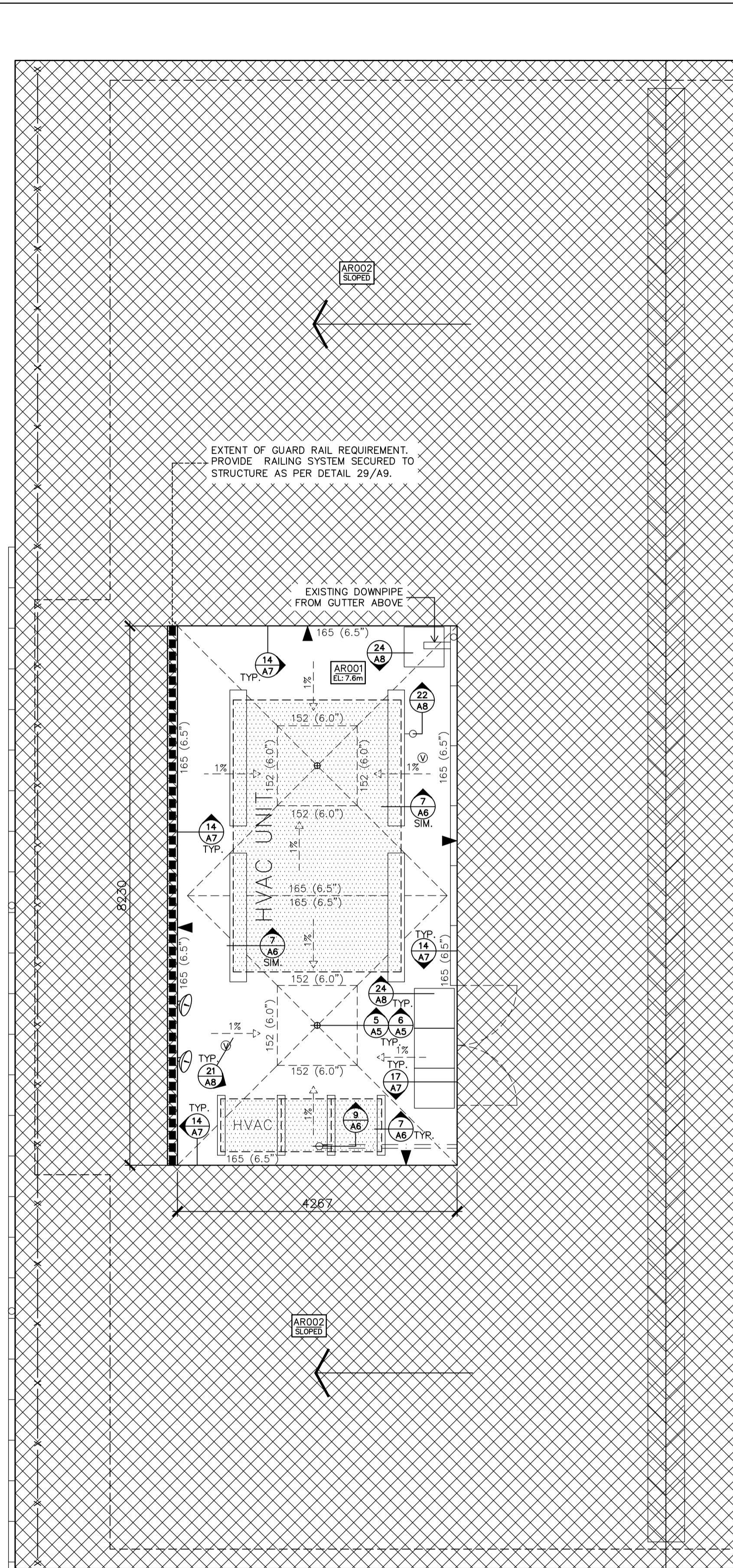
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A. project manager
administrateur de projets

project date
date du projet
2017-03-07

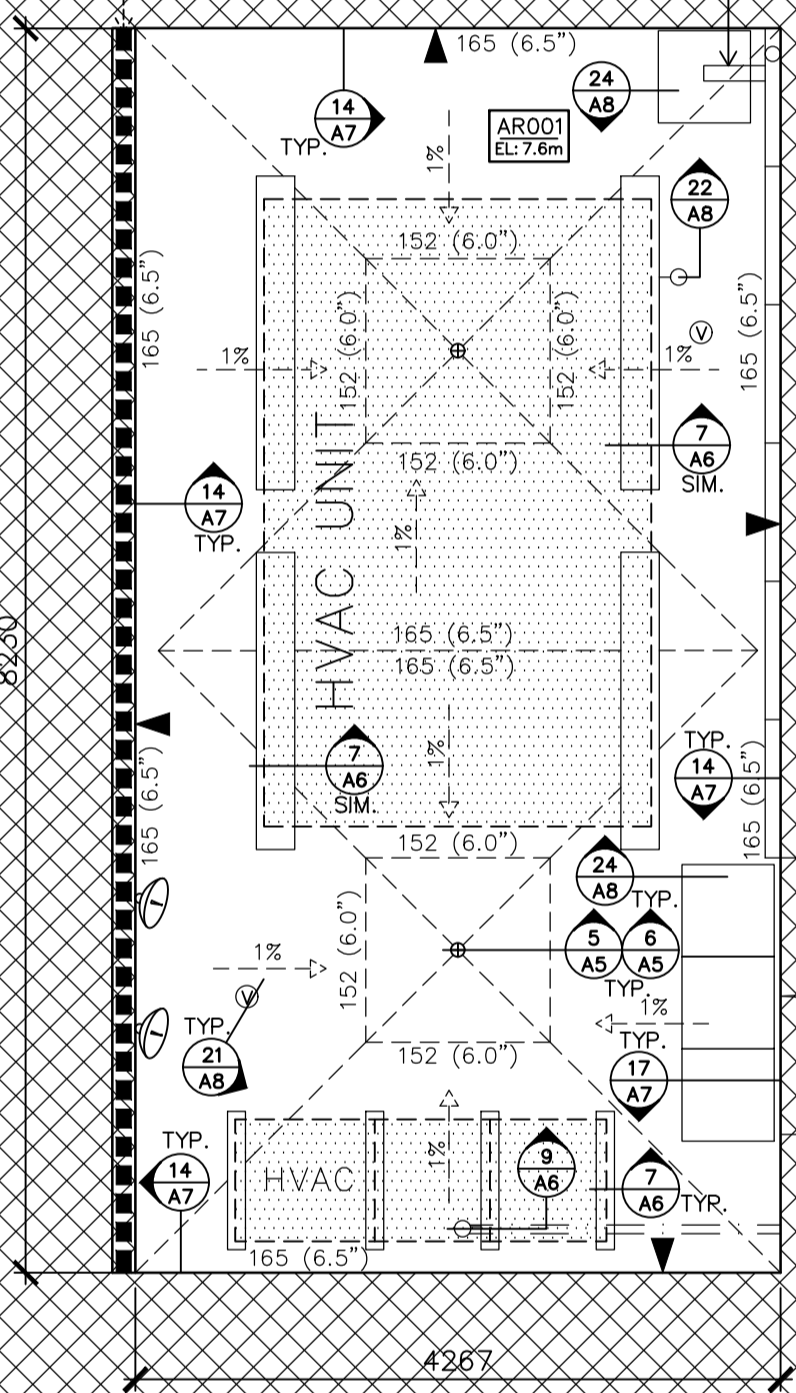
project no.
no. du projet
R.074360.001

drawing no.
dessiné no.
A4.1



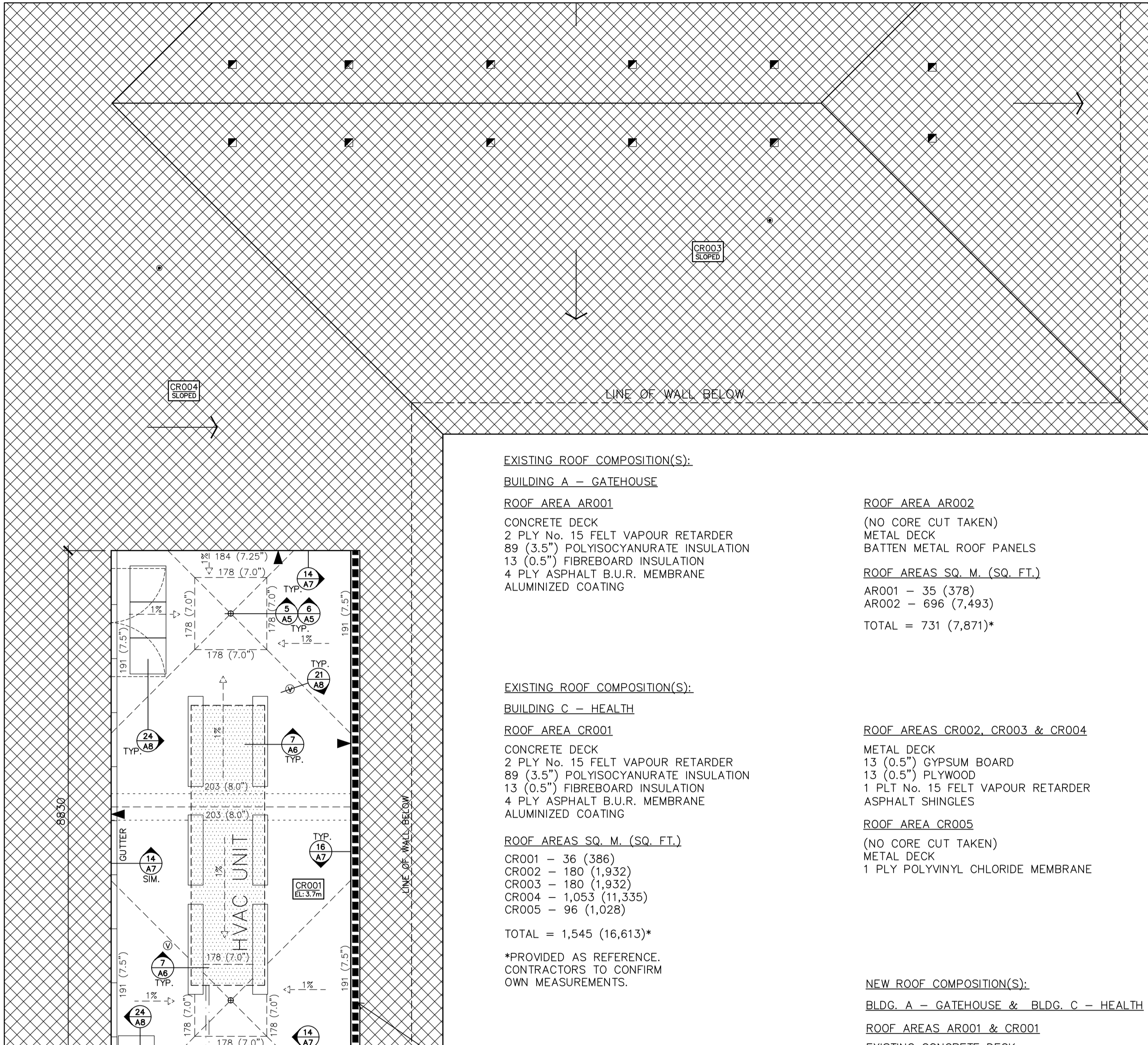
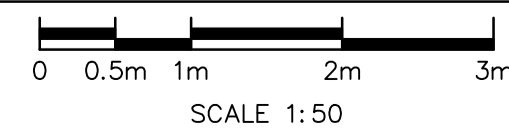
EXTENT OF GUARD RAIL REQUIREMENT. PROVIDE RAILING SYSTEM SECURED TO STRUCTURE AS PER DETAIL 29/A9.

EXISTING DOWNPIPE FROM GUTTER ABOVE



AR002 SLOPED

1 BLDG. A PARTIAL ROOF PLAN
A4.1 SCALE: 1 : 50



EXISTING ROOF COMPOSITION(S):

BUILDING A - GATEHOUSE

ROOF AREA AR001
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREA AR002

(NO CORE CUT TAKEN)
 METAL DECK
 BATTEN METAL ROOF PANELS

ROOF AREAS SQ. M. (SQ. FT.)

AR001 - 35 (378)
 AR002 - 696 (7,493)
 TOTAL = 731 (7,871)*

EXISTING ROOF COMPOSITION(S):

BUILDING C - HEALTH

ROOF AREA CR001
 CONCRETE DECK
 2 PLY No. 15 FELT VAPOUR RETARDER
 89 (3.5") POLYISOCYANURATE INSULATION
 13 (0.5") FIBREBOARD INSULATION
 4 PLY ASPHALT B.U.R. MEMBRANE
 ALUMINIZED COATING

ROOF AREAS CR002, CR003 & CR004

METAL DECK
 13 (0.5") GYPSUM BOARD
 13 (0.5") PLYWOOD
 1 PLT No. 15 FELT VAPOUR RETARDER
 ASPHALT SHINGLES

ROOF AREA CR005

(NO CORE CUT TAKEN)
 METAL DECK
 1 PLY POLYVINYL CHLORIDE MEMBRANE

ROOF AREAS SQ. M. (SQ. FT.)

CR001 - 36 (386)
 CR002 - 180 (1,932)
 CR003 - 180 (1,932)
 CR004 - 1,053 (11,335)
 CR005 - 96 (1,028)
 TOTAL = 1,545 (16,613)*

*PROVIDED AS REFERENCE. CONTRACTORS TO CONFIRM OWN MEASUREMENTS.

NEW ROOF COMPOSITION(S):

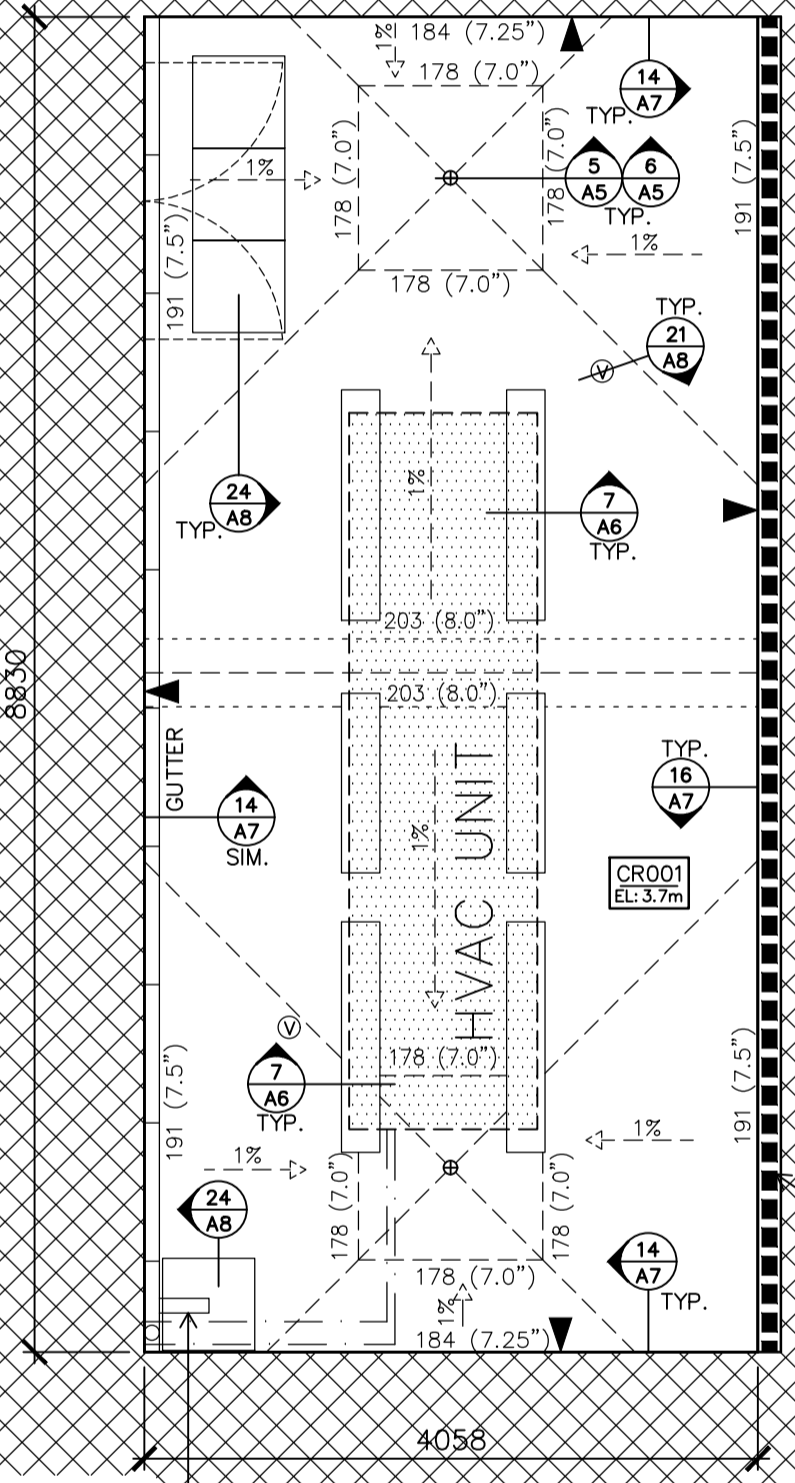
BLDG. A - GATEHOUSE & BLDG. C - HEALTH

ROOF AREAS AR001 & CR001

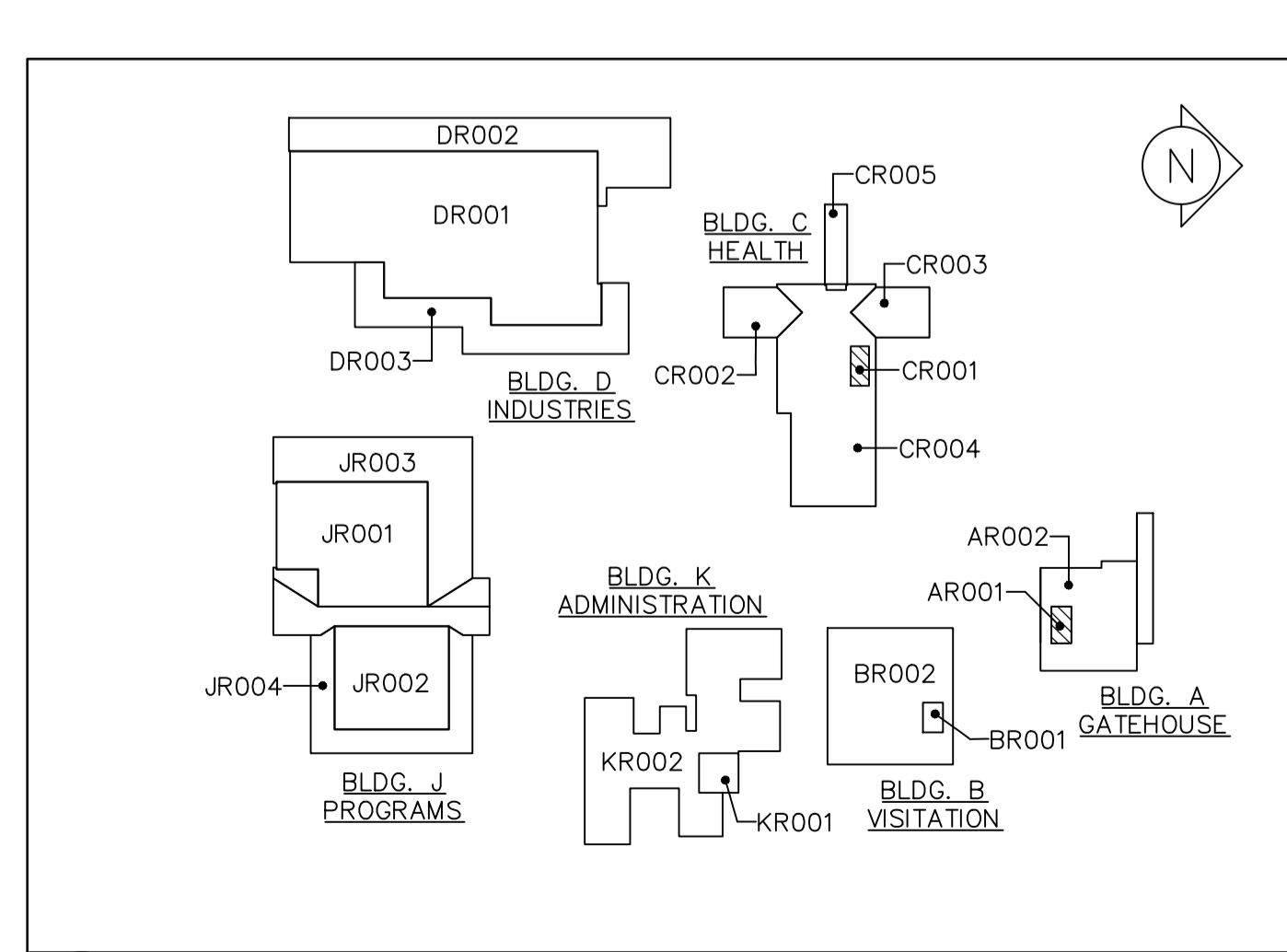
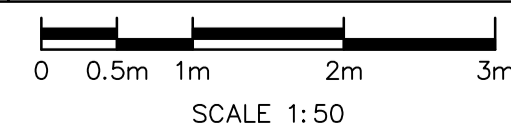
EXISTING CONCRETE DECK
 NEW 1 PLY MOD. BIT. VAPOUR RETARDER
 TAPERED N.V.S. INSULATION
 AVG. RSI 5.28 (R30)
 VENTING BASE SHEET
 2 PLY MODIFIED BITUMEN MEMBRANE

EXTENT OF GUARD RAIL REQUIREMENT. PROVIDE RAILING SYSTEM SECURED TO STRUCTURE AS PER DETAIL 29/A9.

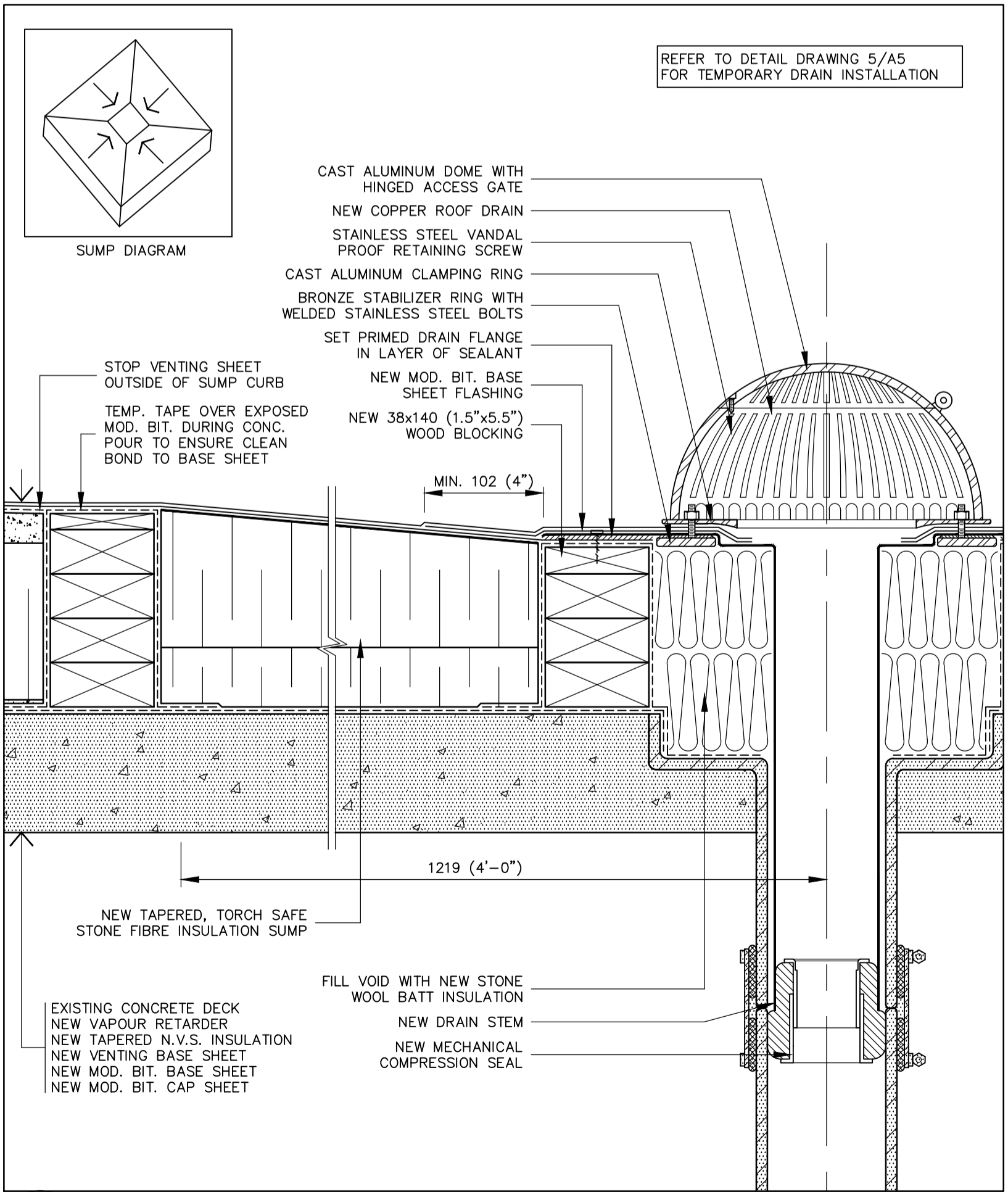
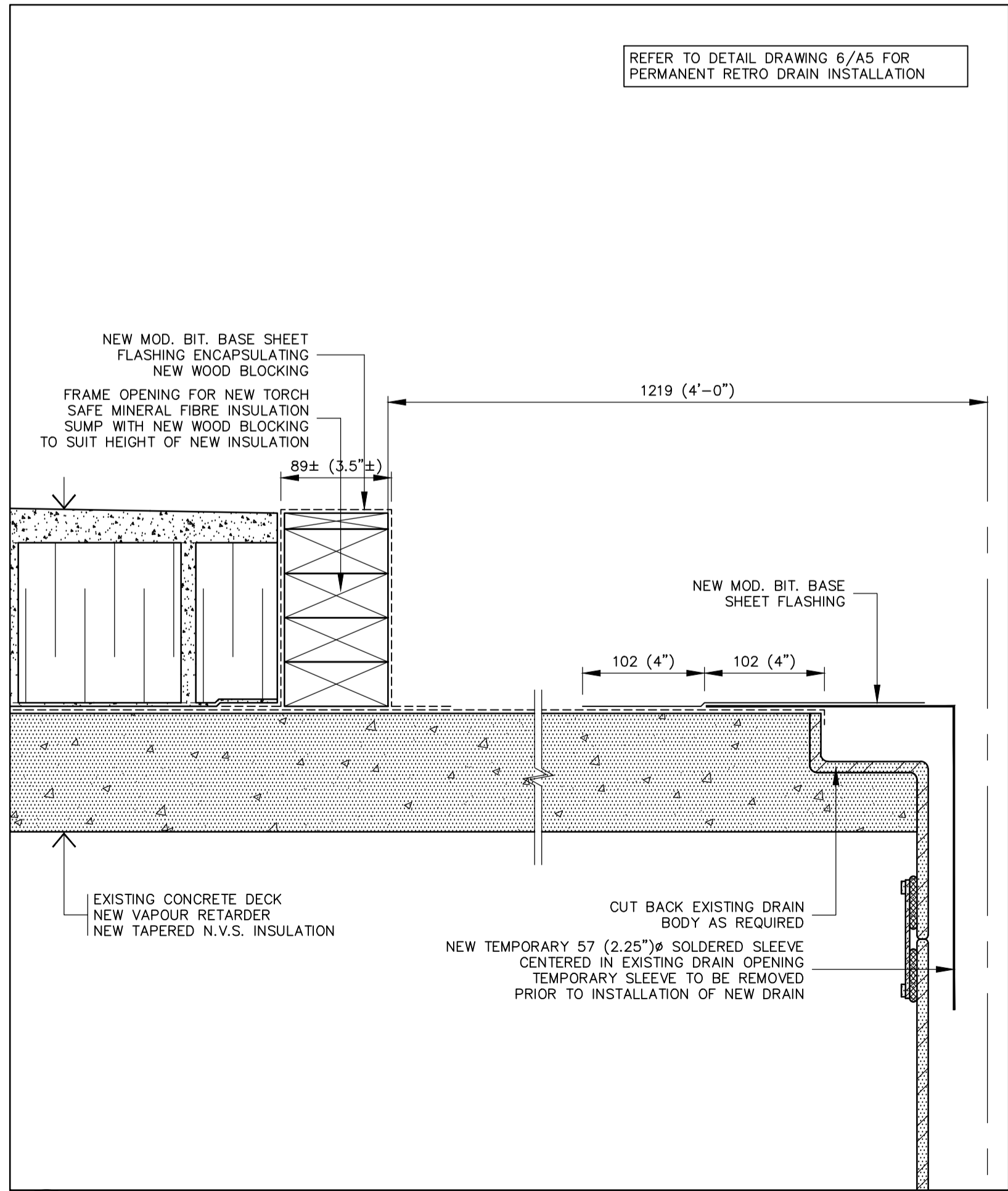
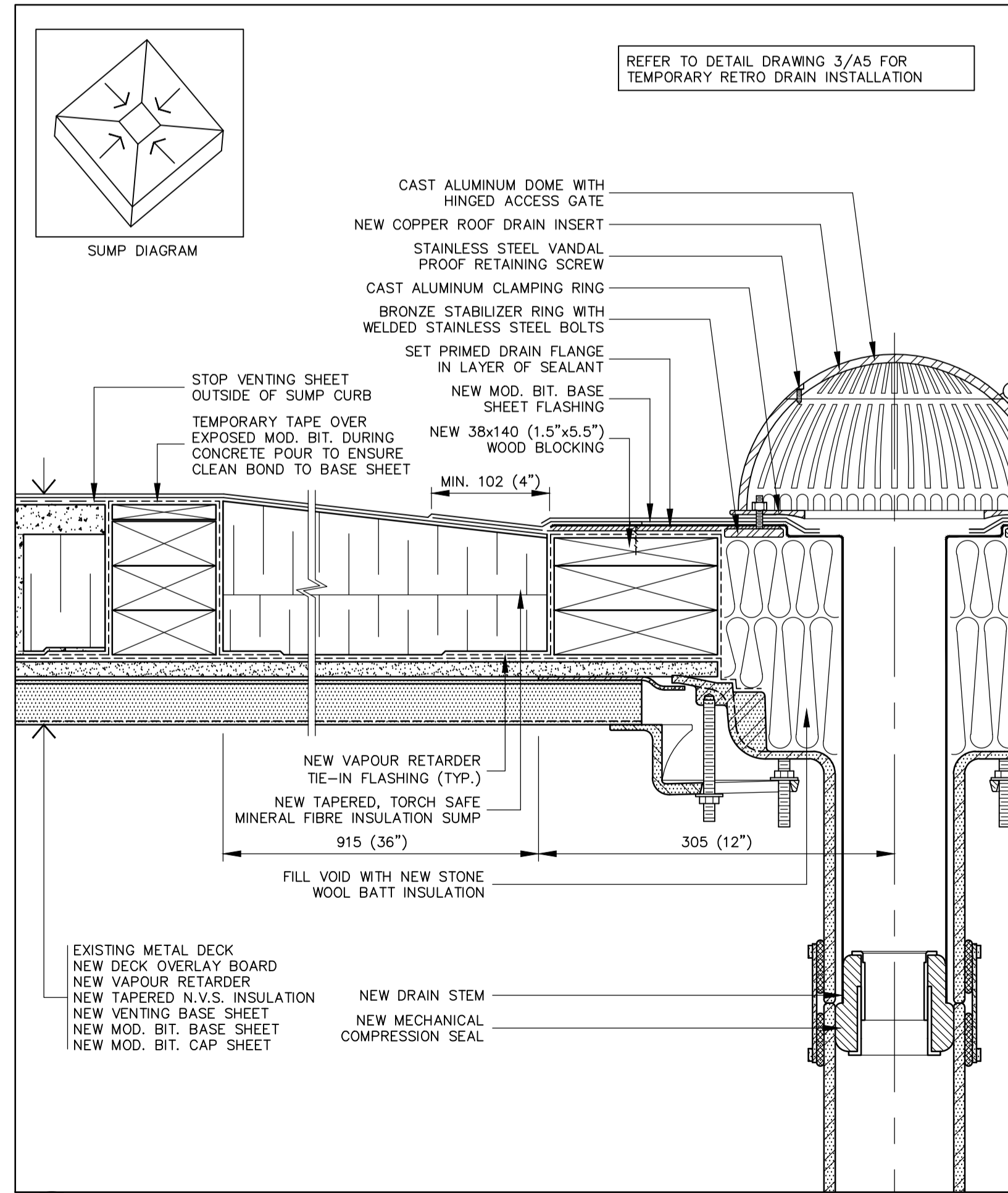
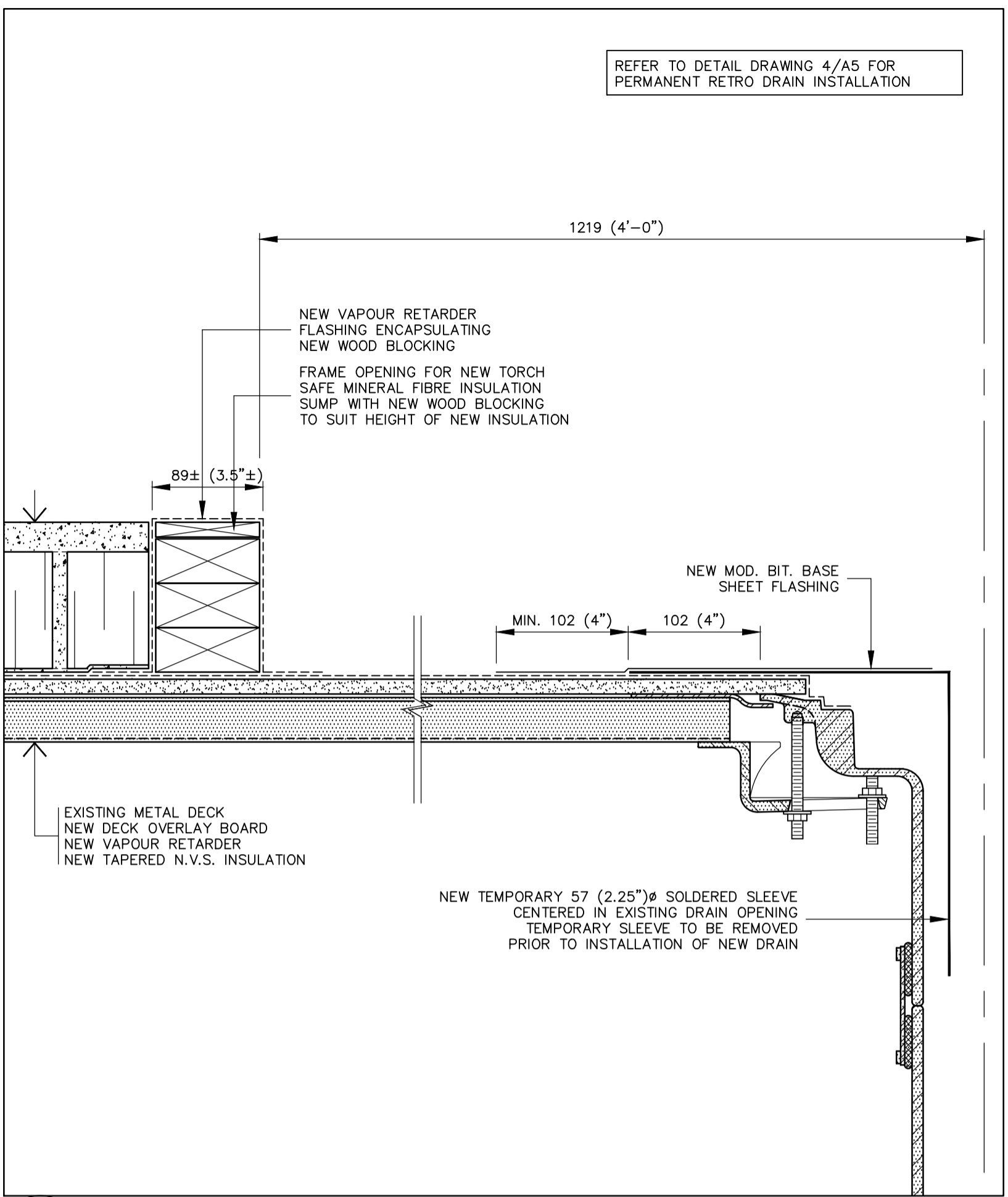
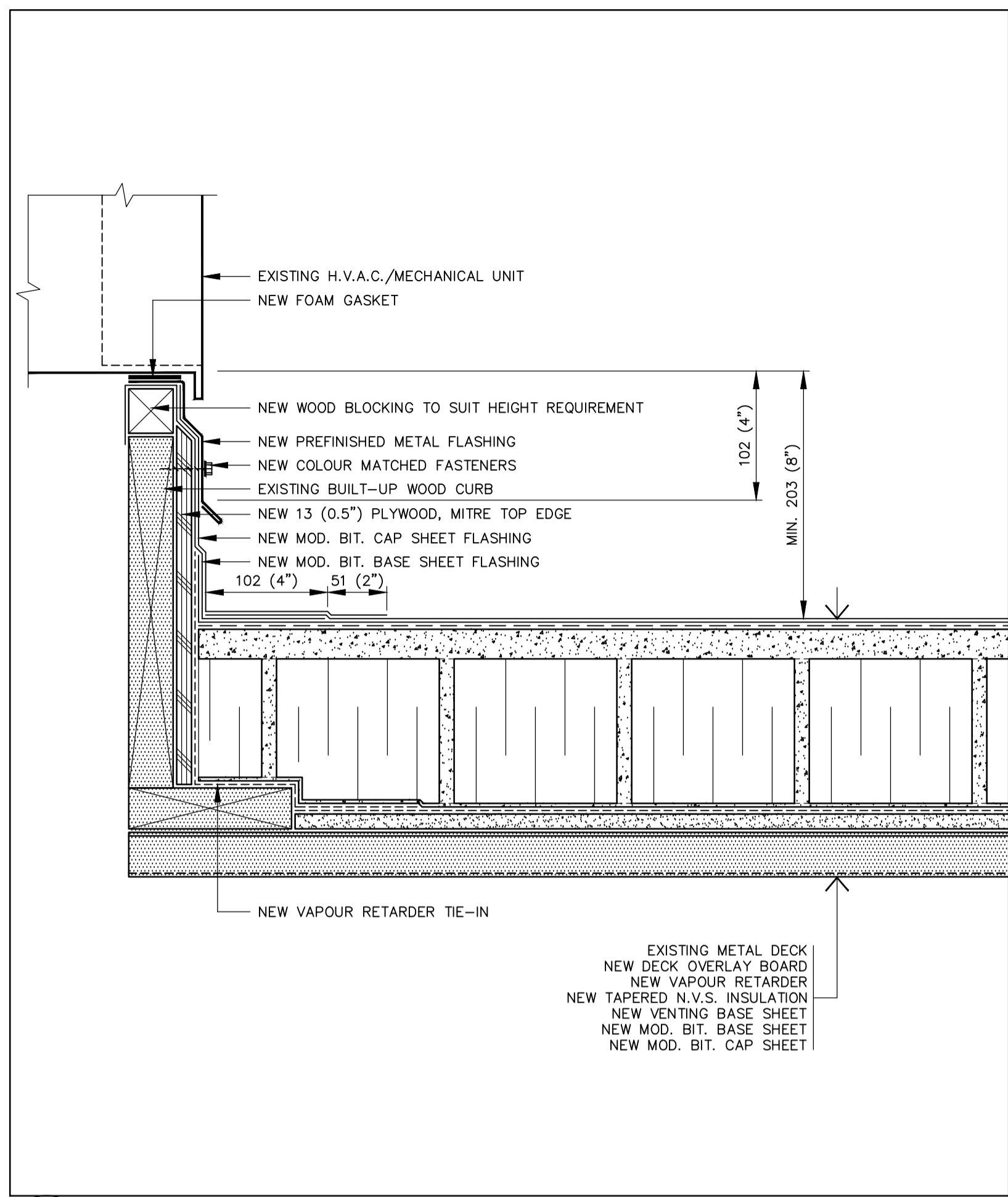
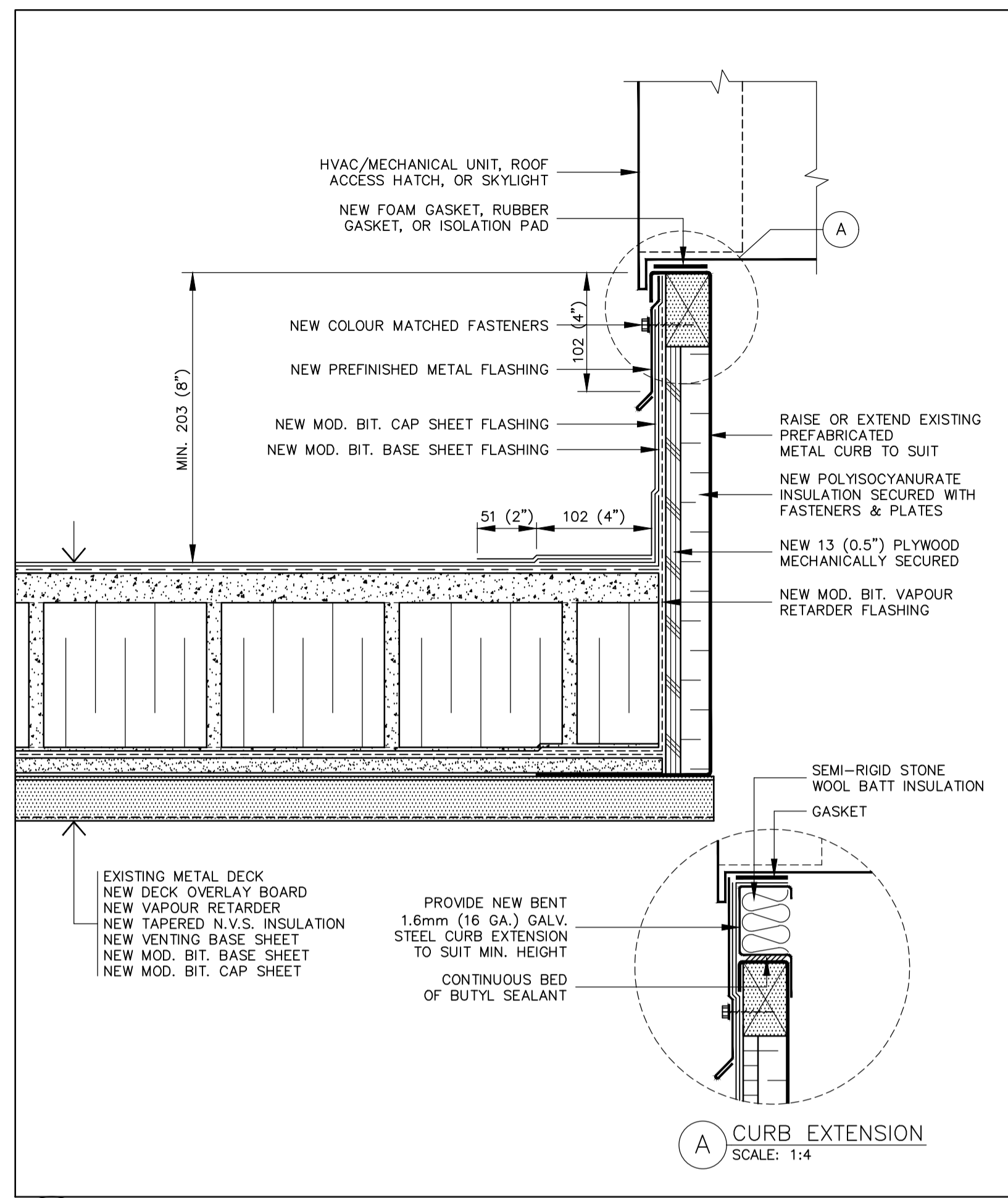
EXISTING DOWNPIPE FROM GUTTER ABOVE



2 BLDG. C PARTIAL ROOF PLAN
A4.1 SCALE: 1 : 50



3 KEYPLAN
A4.1 SCALE: N.T.S.



Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

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Brantford Studio K-W Studio
127 Brant Ave., Brantford, ON N3T 3H5 564 Weber St. N., Suite 1, Waterloo, ON N2L 5C6
519.756.6331 1.877.789.6662 519.575.2227 1.877.789.6662
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TOLL FREE: 1-888-607-5245 TEL: 905-607-7244
WWW.IRCGROUP.COM FAX: 905-607-7288



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	B drawing no. - where detail required	
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CORRECTIONAL SERVICE CANADA
2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
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DETAILS

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IRC GROUP: F.R.A./B.M.W.

designed by
conçu par
IRC GROUP: A.J.D.

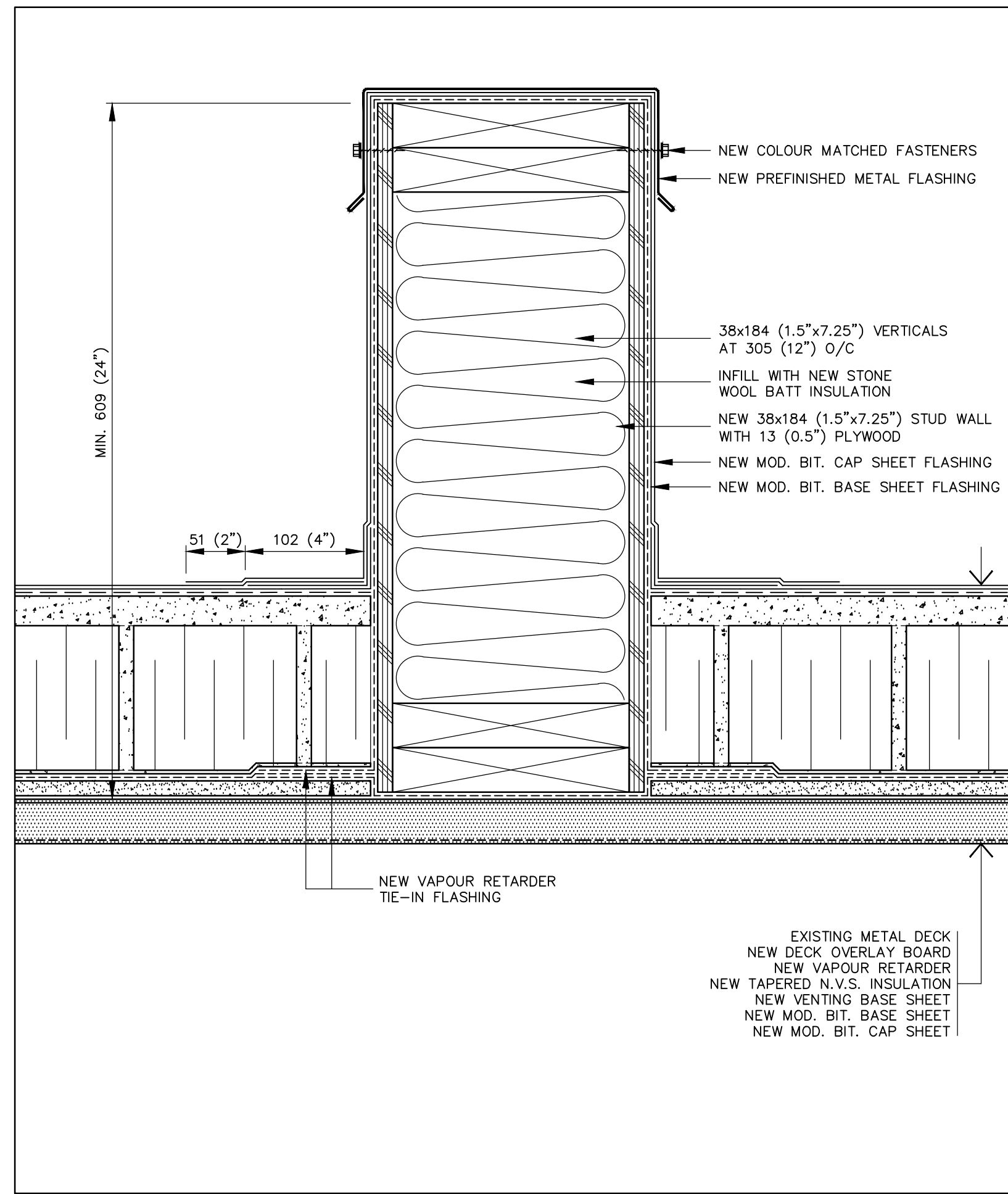
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A.

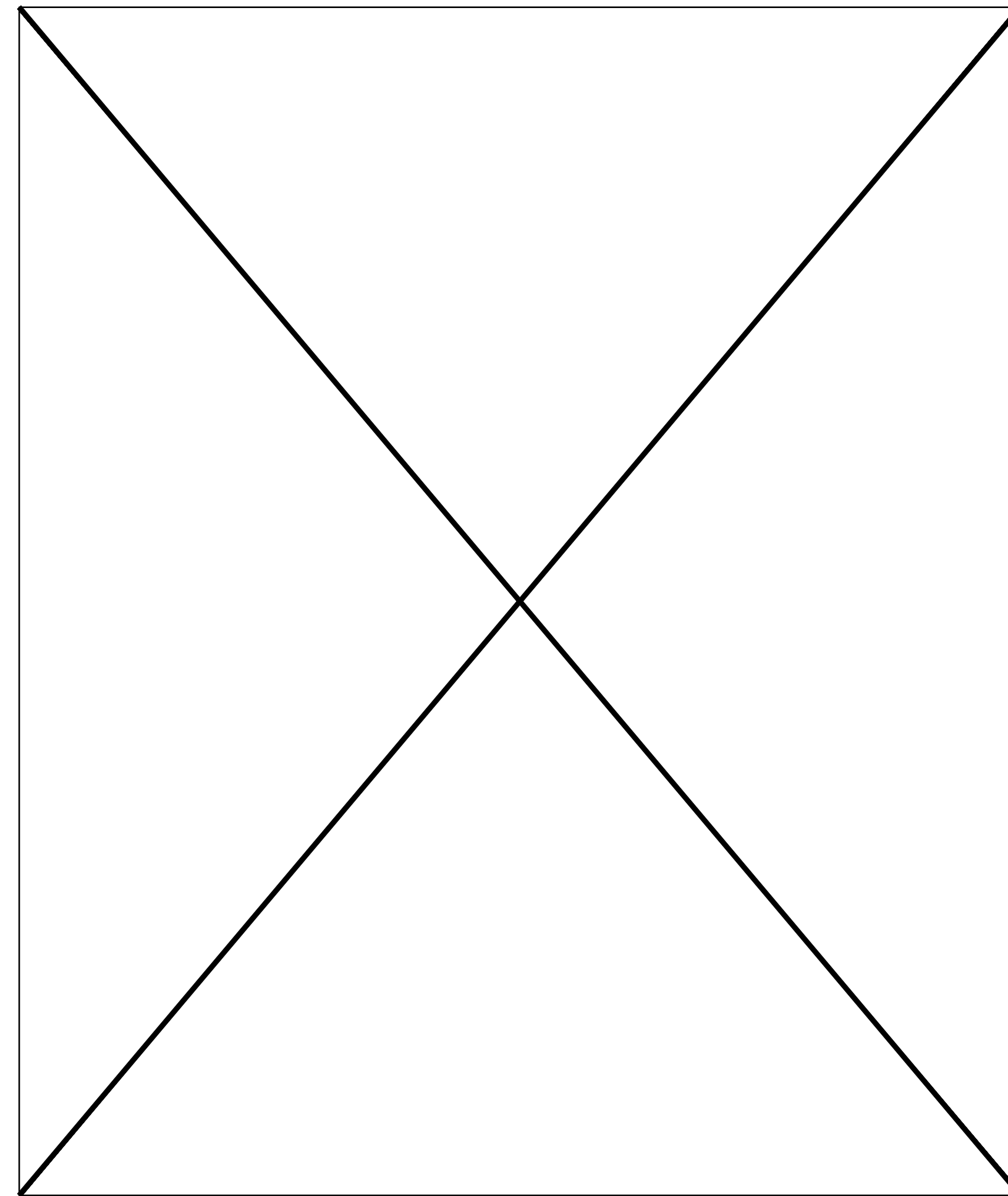
project date
date du projet
2017-03-07

project no.
no. du projet
R.074360.001

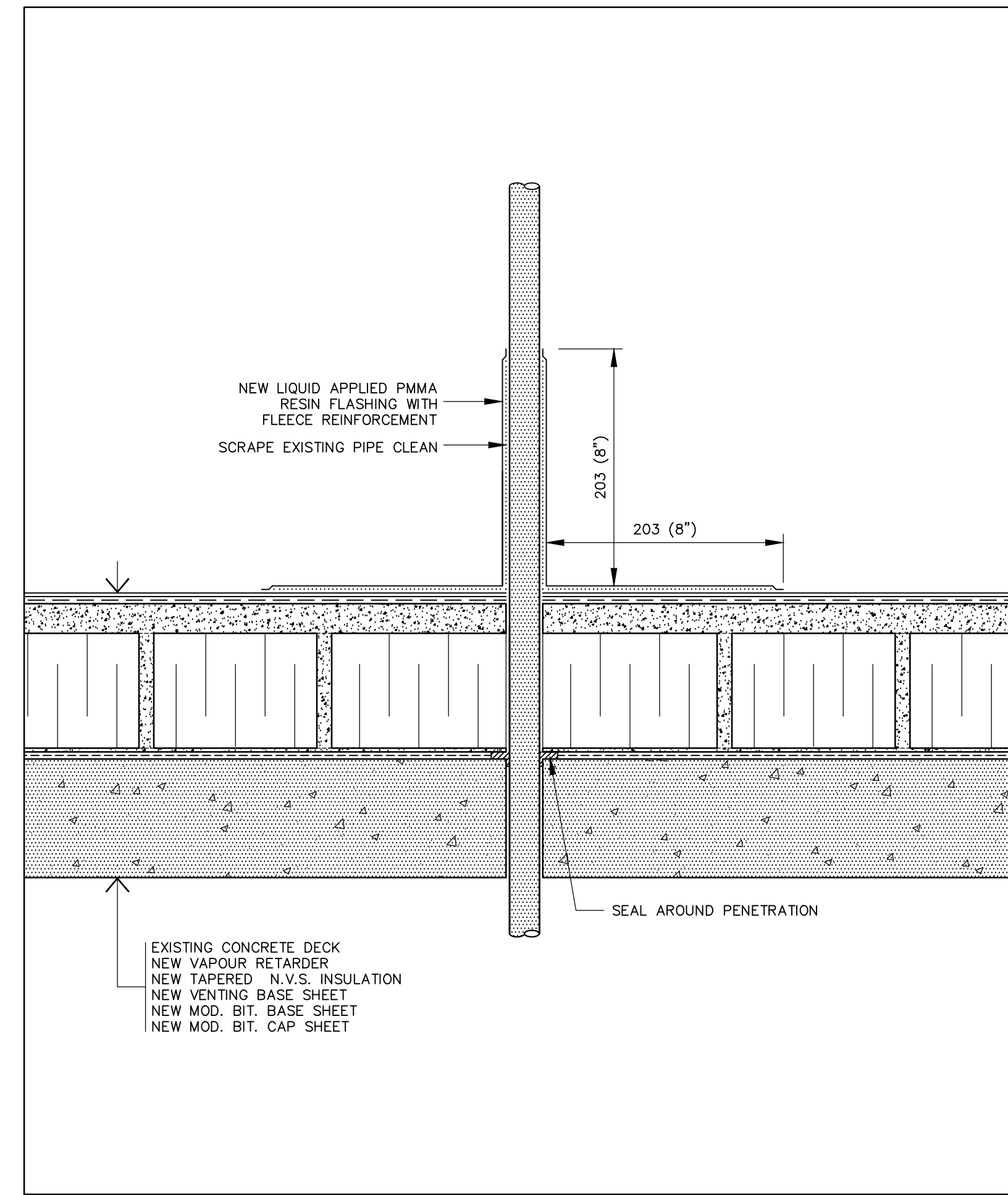
drawing no.
dessiné no.
A5



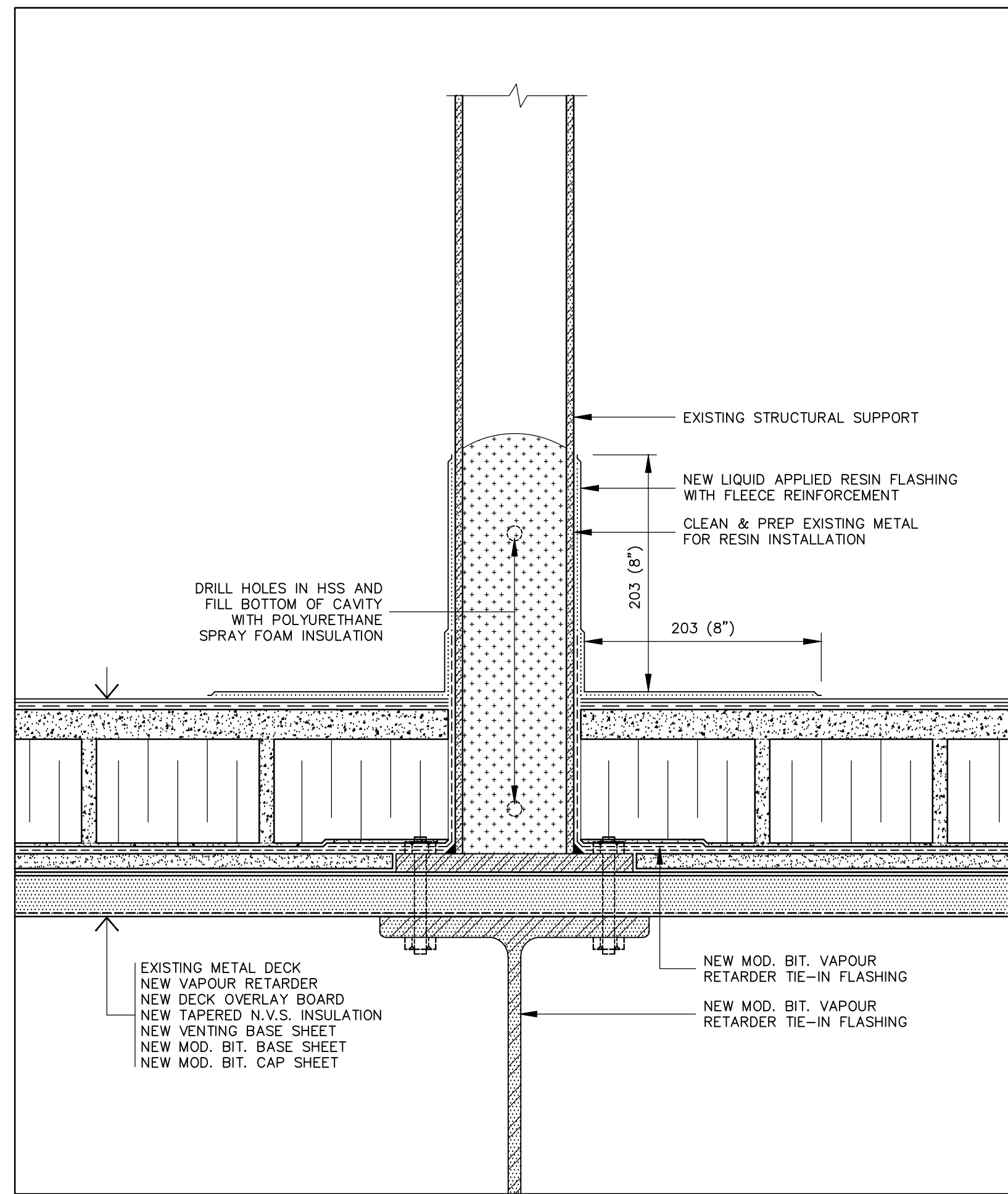
7 NEW SLEEPER FLASHING DETAIL
A6 SCALE: 1:4



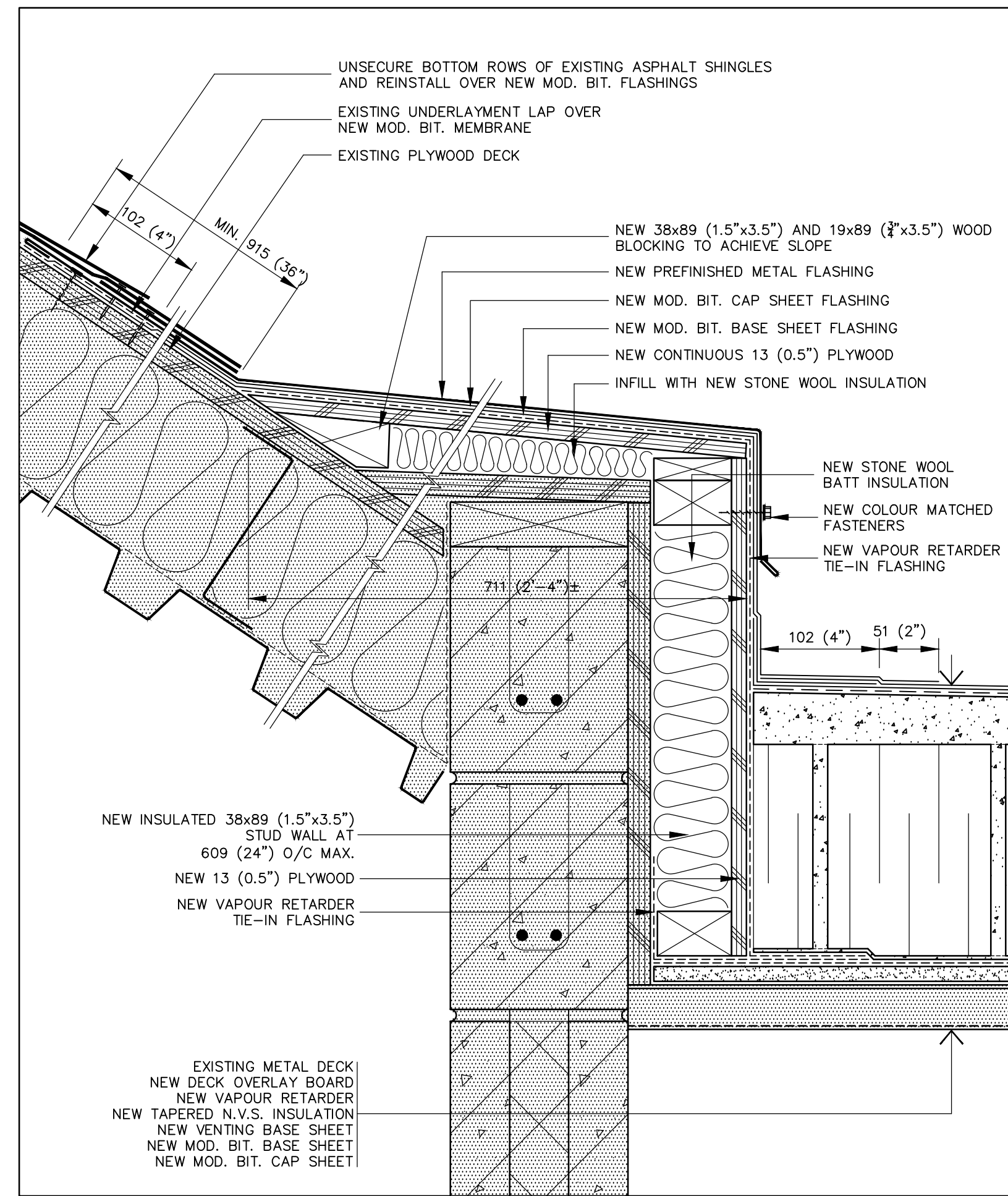
8 UNUSED
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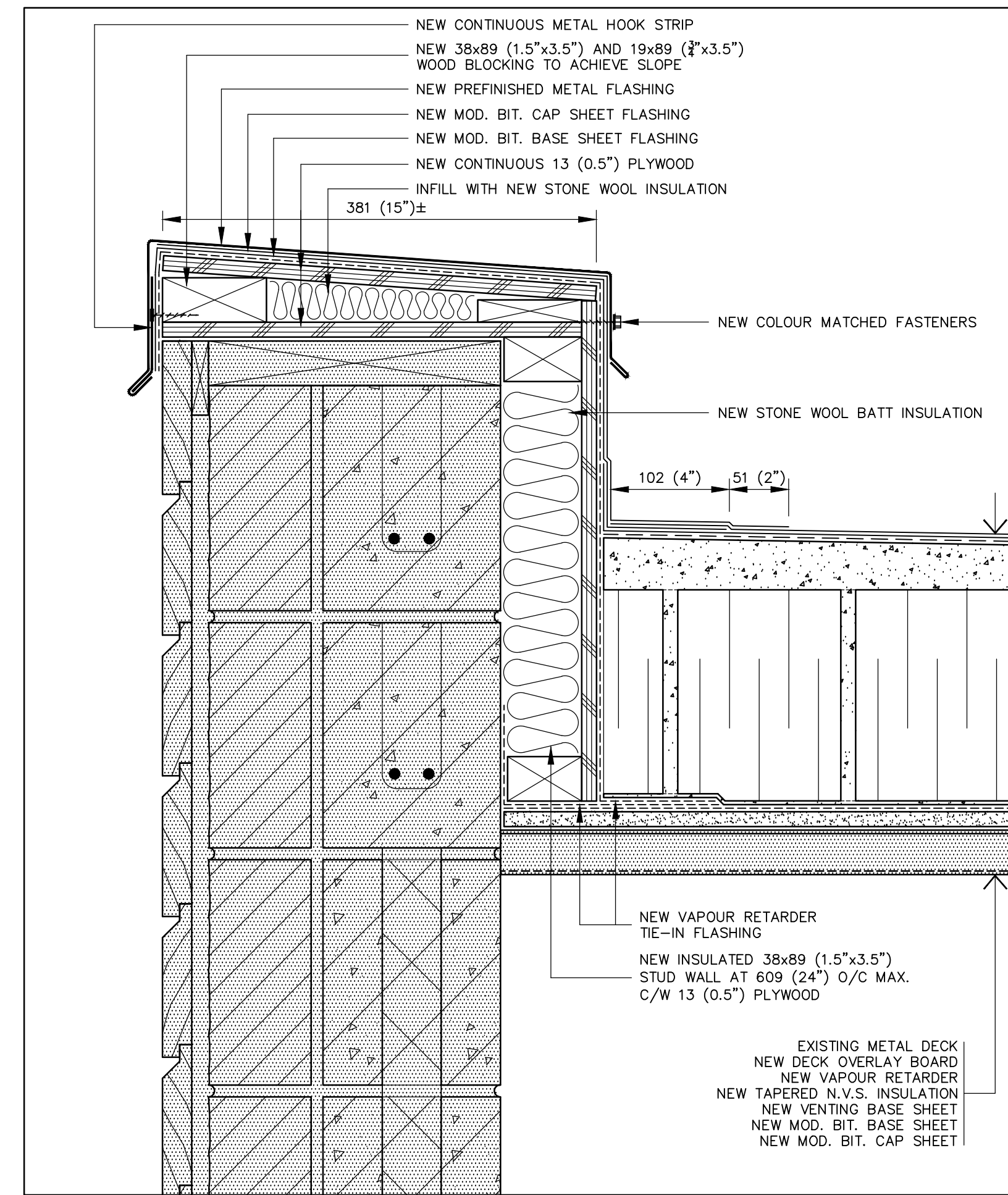
9 PIPE PENETRATION FLASHING DETAIL
A6 SCALE: 1:4



10 EXISTING HSS SUPPORT FLASHING DETAIL
A6 SCALE: 1:4



11 PERIMETER TRANSITION DETAIL
A6 SCALE: 1:4



12 PARAPET FLASHING DETAIL
A6 SCALE: 1:4

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A Detail No.
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B drawing no. - where detail required
dessin no. - où détail exigé
C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet
GRAVENHURST Ontario
BEAVER CREEK INSTITUTION - MEDIUM
CORRECTIONAL SERVICE CANADA
2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

drawing title
titre du dessin
DETAILS

drawn by
dessiné par
IRC GROUP: F.R.A./B.M.W.

designed by
conçue par
IRC GROUP: A.J.D.

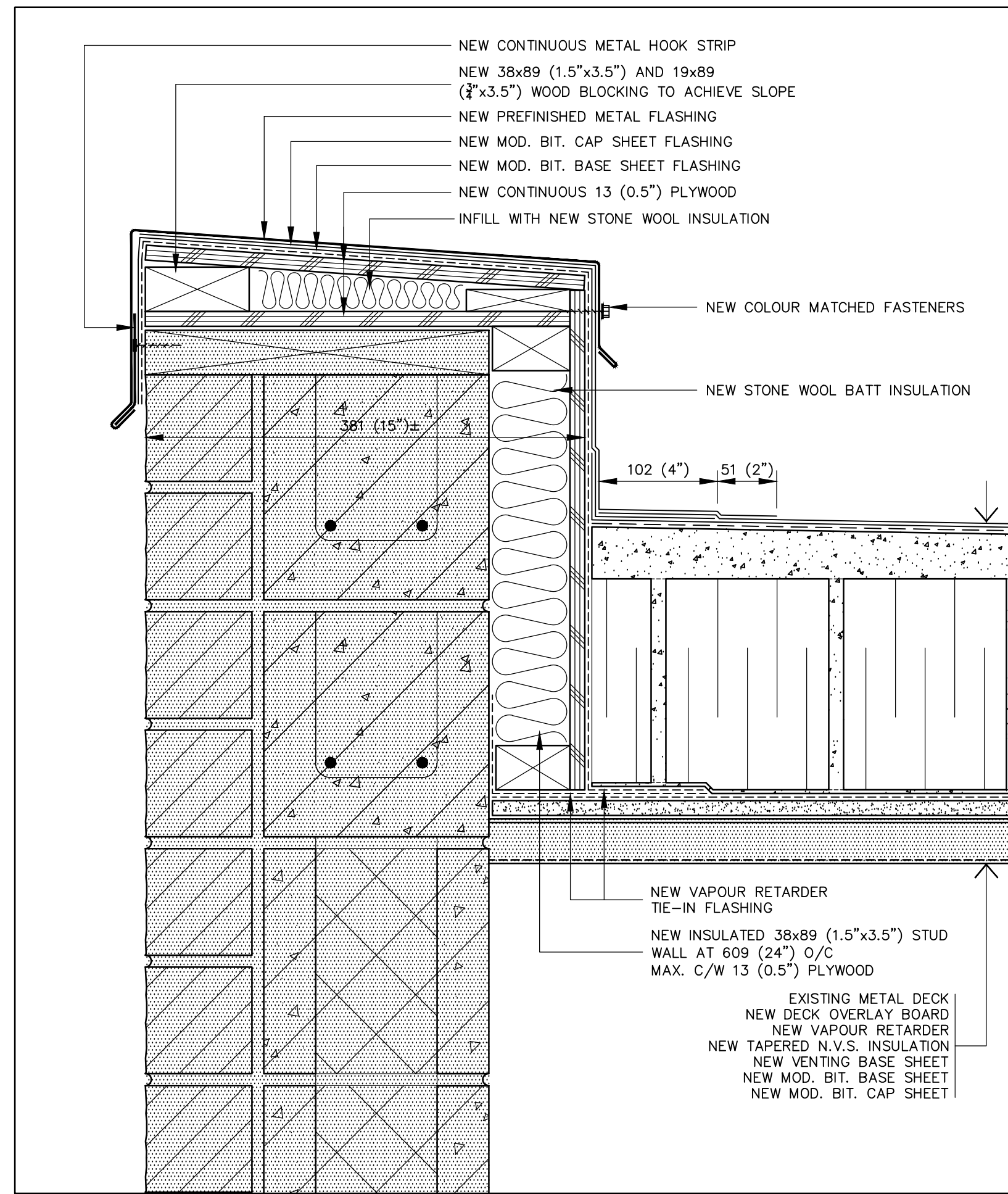
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A. project manager
administrateur de projets

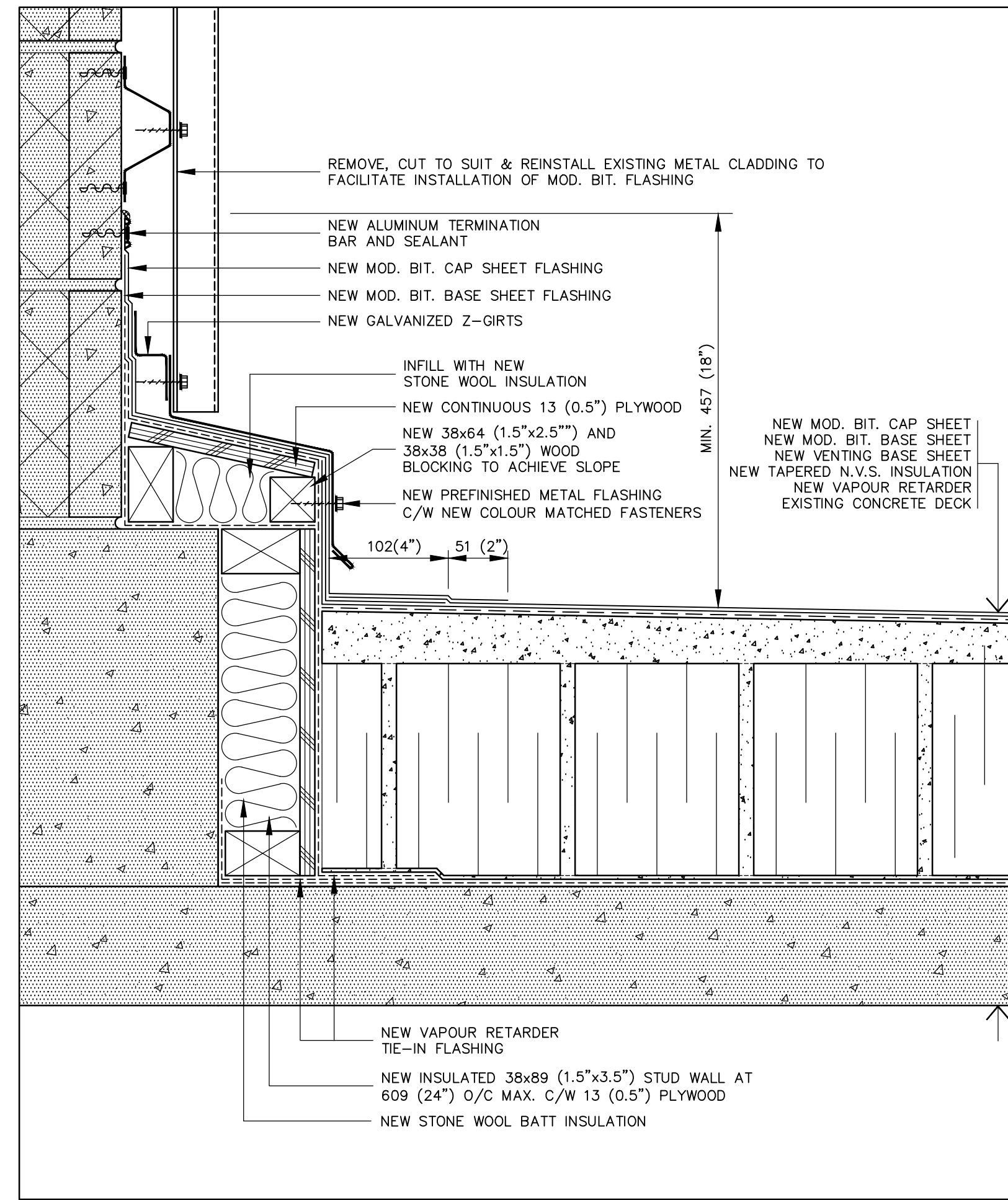
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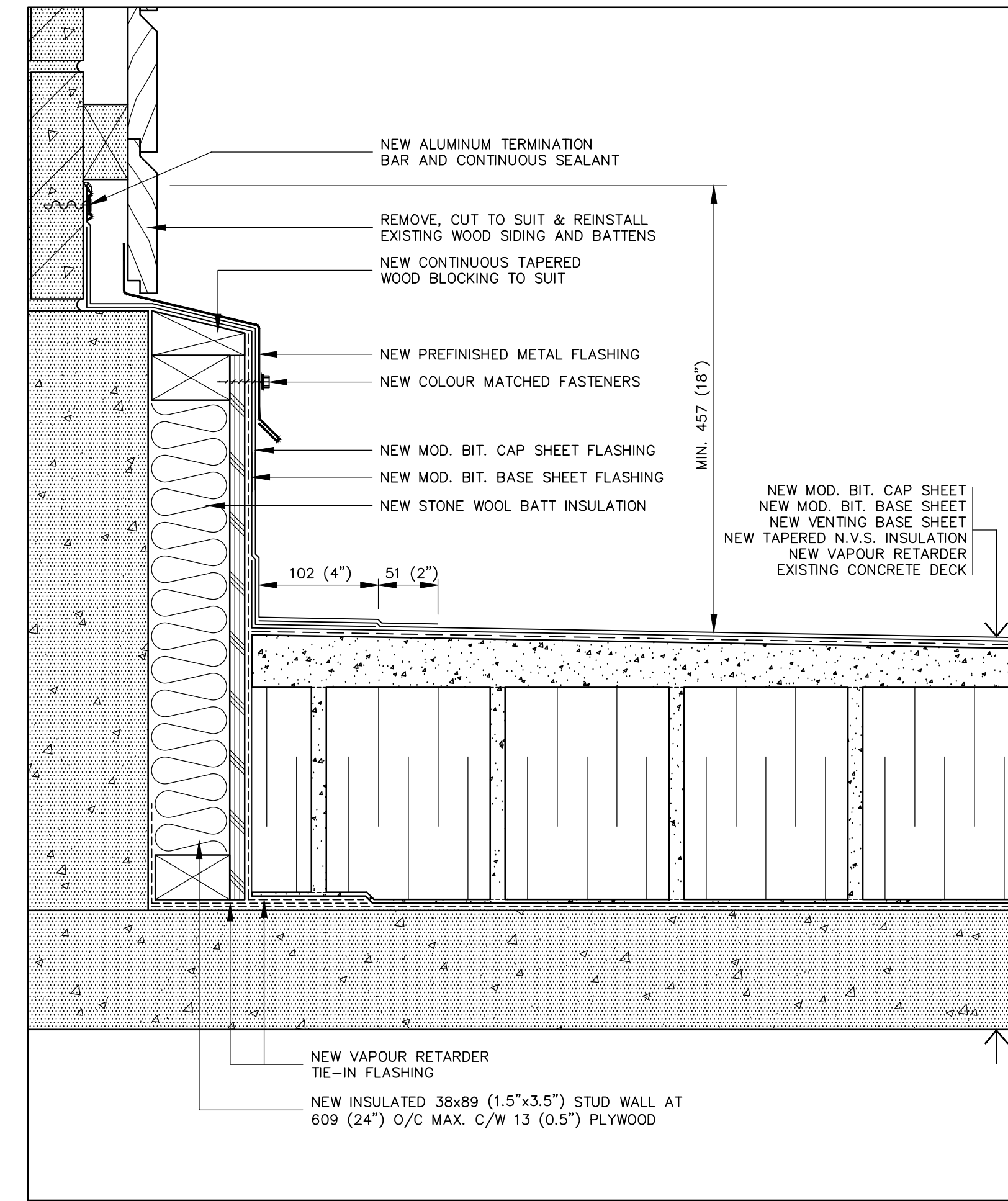
drawing no.
dessin no.
A6



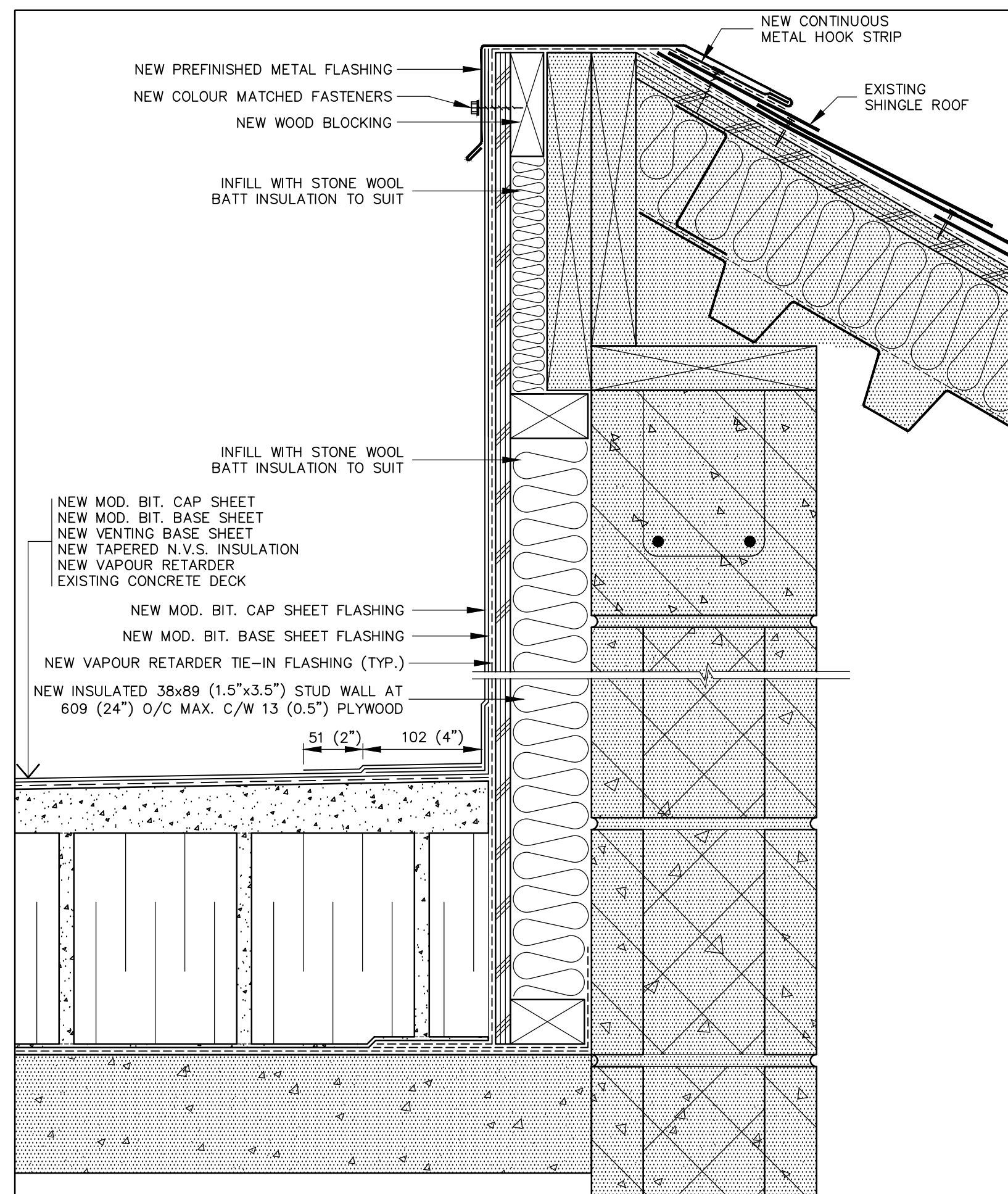
13 PARAPET FLASHING DETAIL
A7 SCALE: 1:4



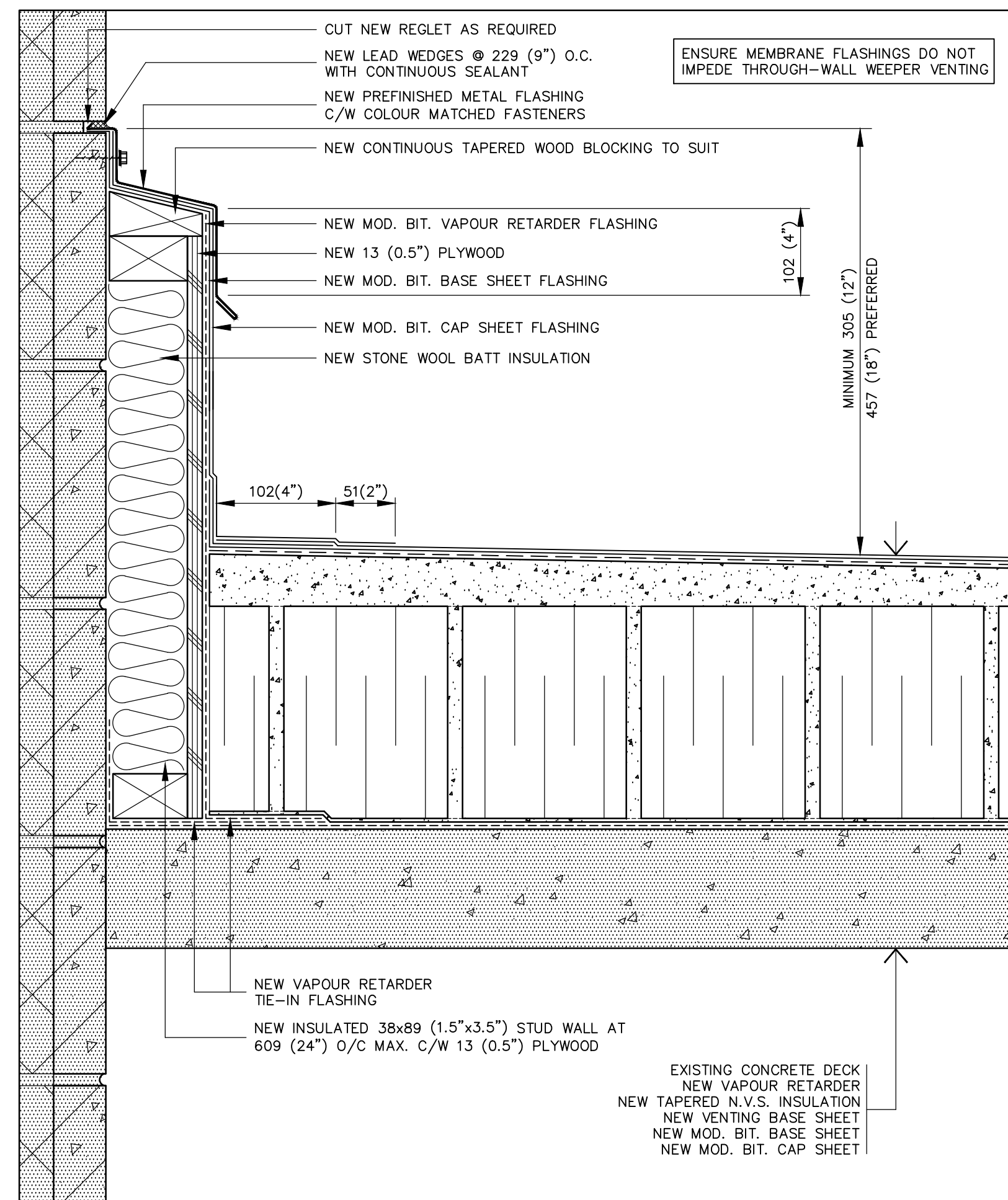
14 WALL FLASHING DETAIL
A7 SCALE: 1:4



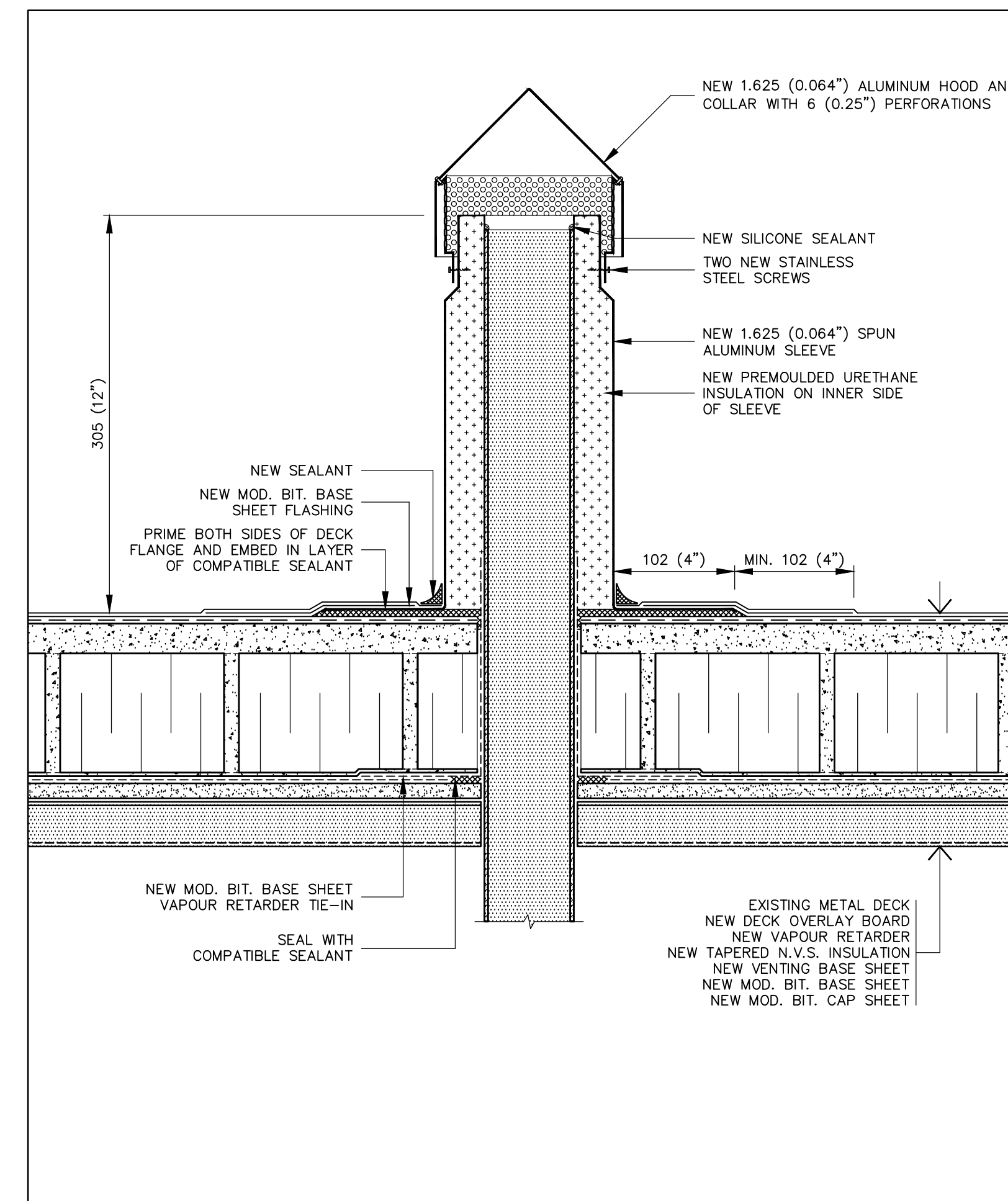
15 WALL FLASHING DETAIL
A7 SCALE: 1:4



16 PERIMETER FLASHING DETAIL
A7 SCALE: 1:4



17 REGLET FLASHING DETAIL
A7 SCALE: 1:4

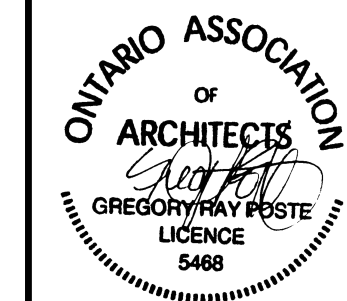


18 PLUMBING STACK DETAIL
A7 SCALE: 1:4

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designed by
conçue par
IRC GROUP: A.J.D.

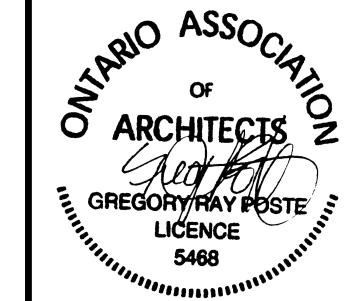
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approuvé par
IRC GROUP: T.K.C.

bid
offre
M.B./F.R.A. project manager
administrateur de projets

project date
date du projet
2017-03-07

project no.
no. du projet
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drawing no.
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conc par
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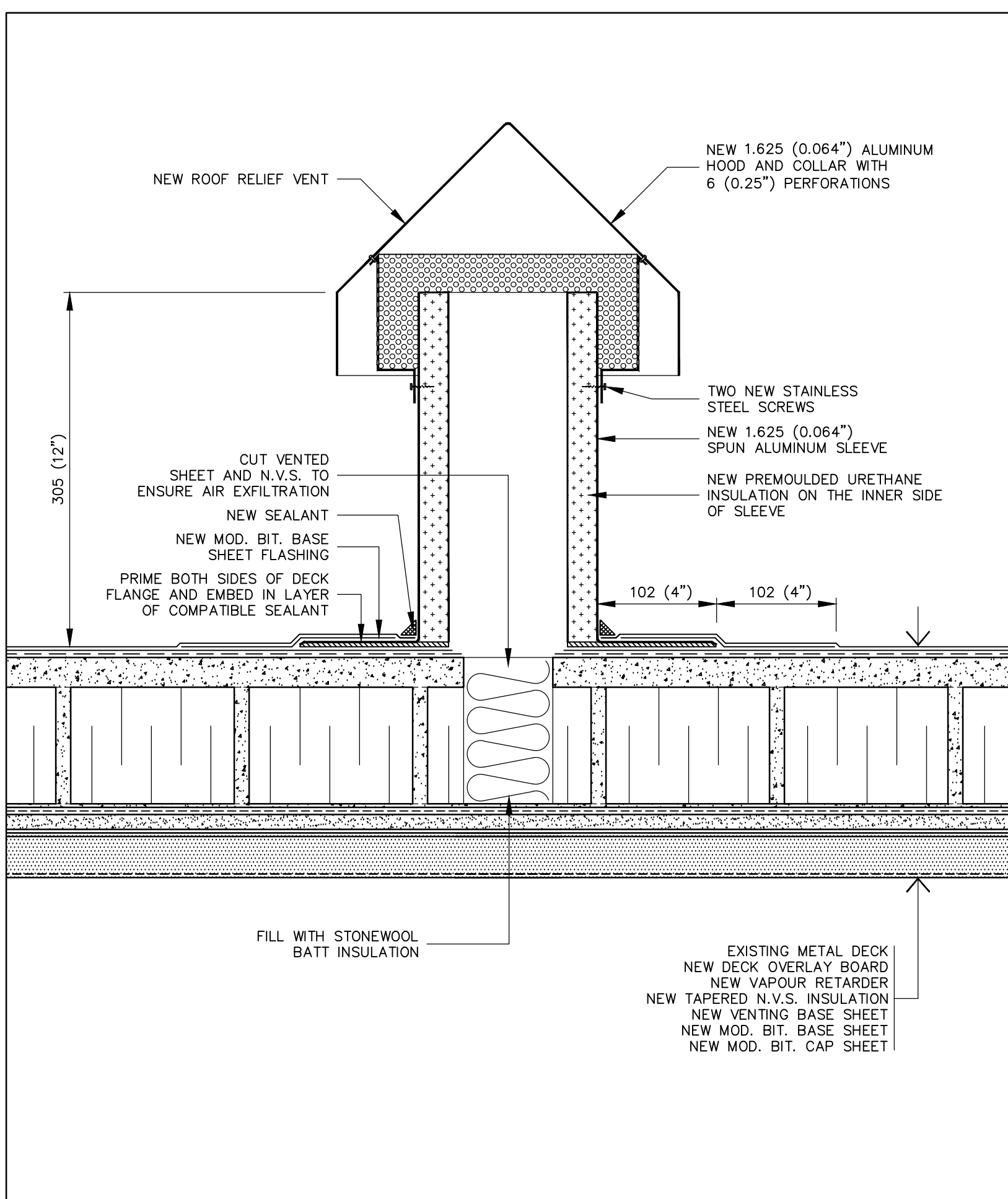
approved by
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bid offer
offre
D.A.

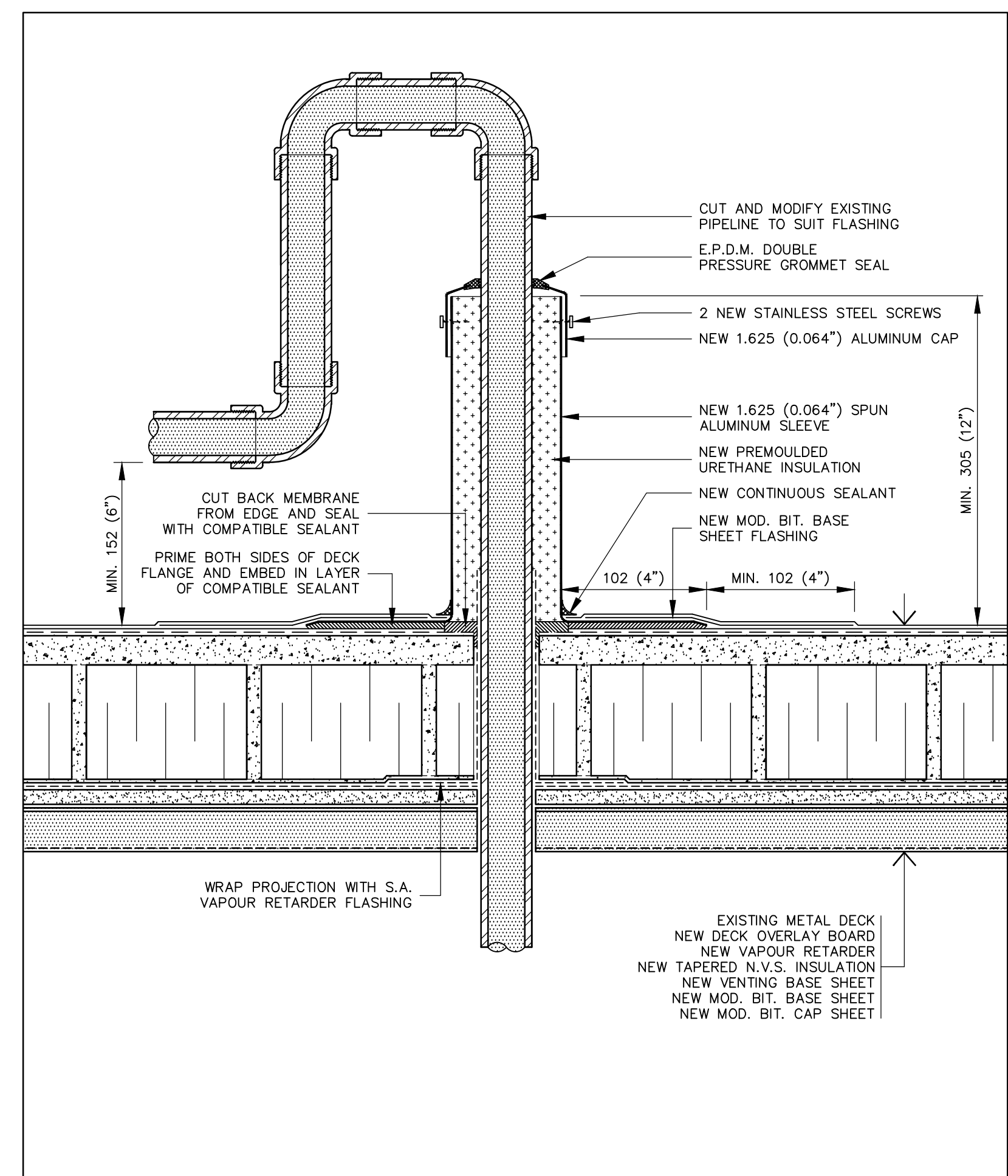
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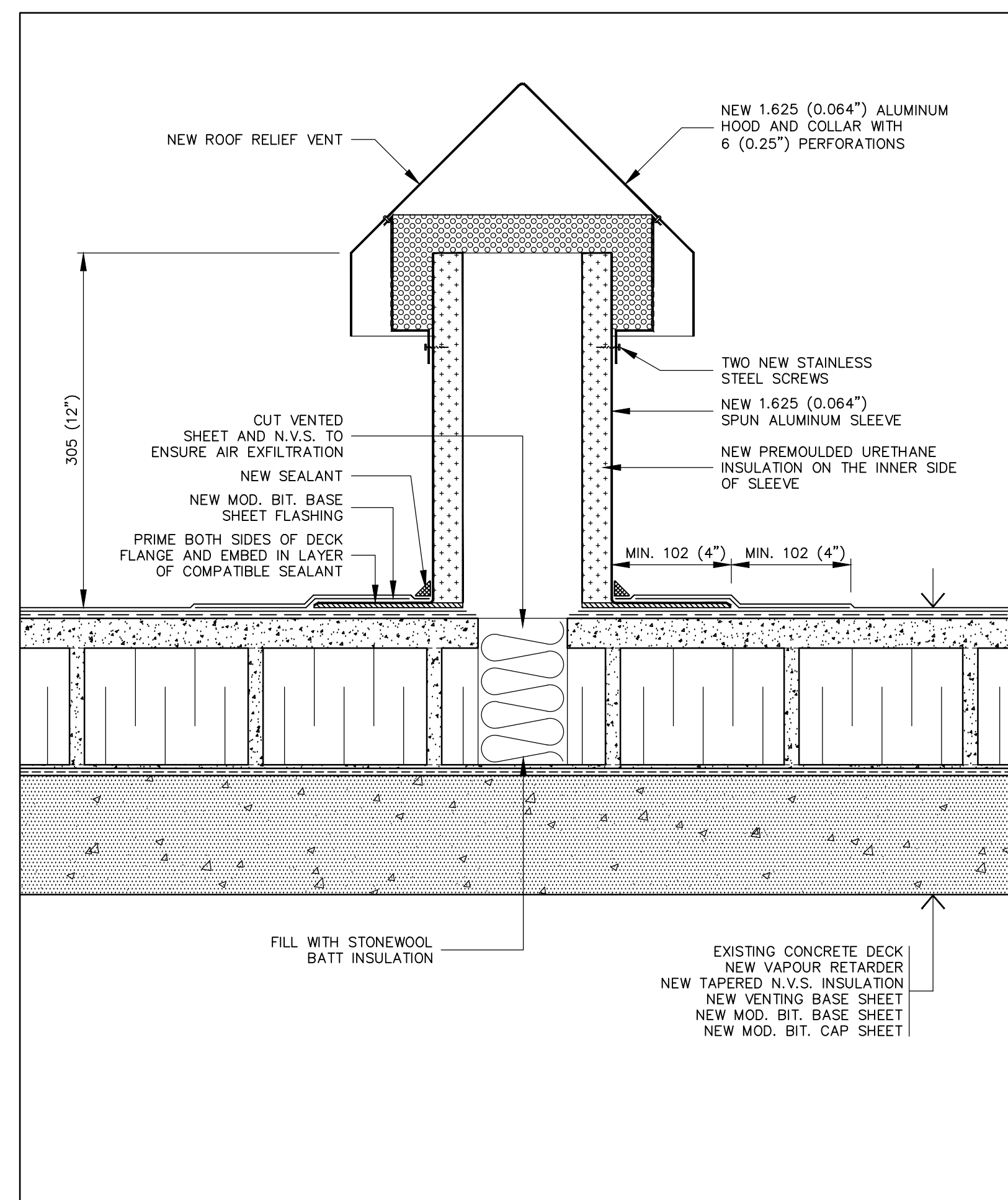
drawing no.
dessin no.
A8



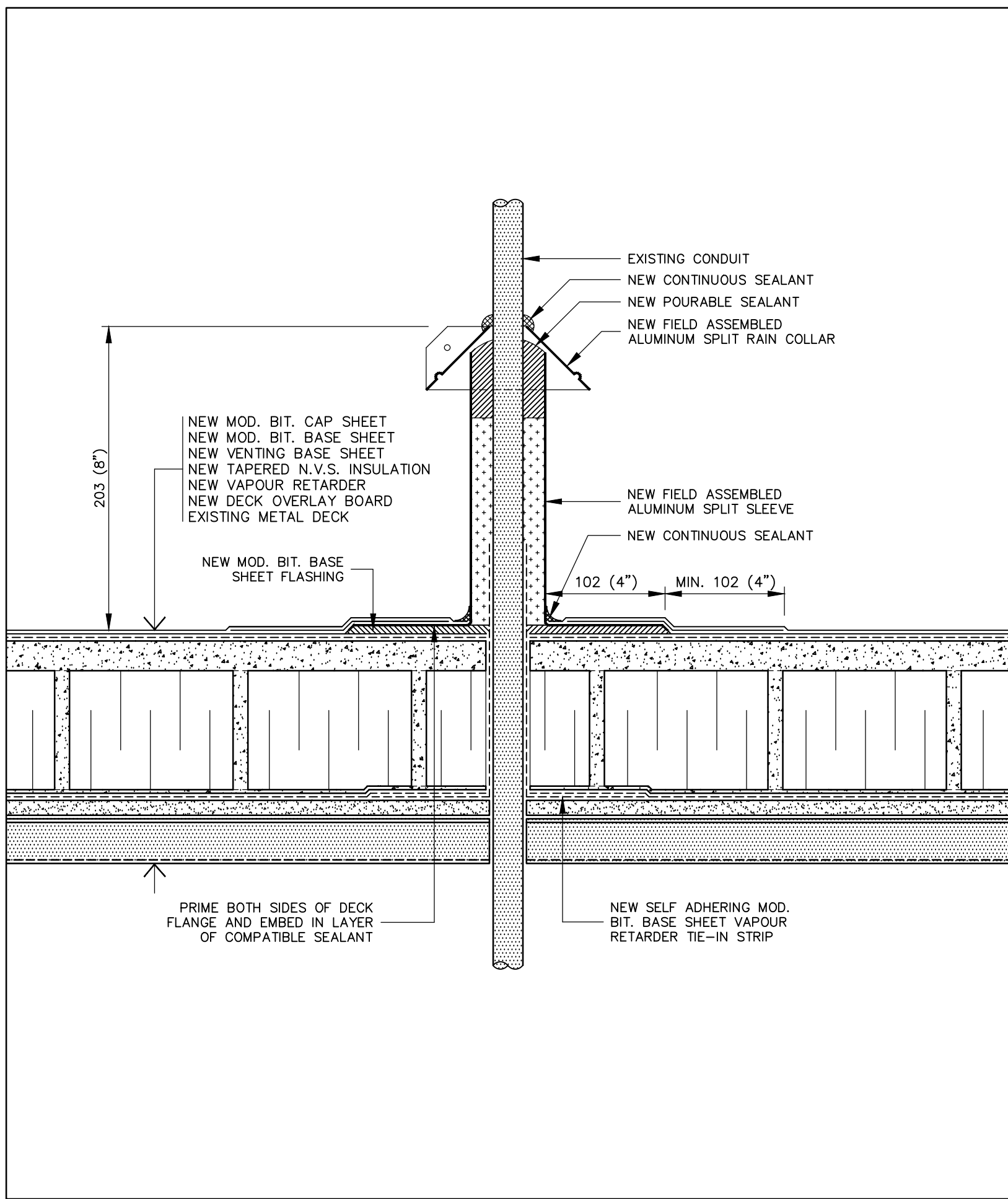
19 RELIEF VENT DETAIL
A8 SCALE: 1:4



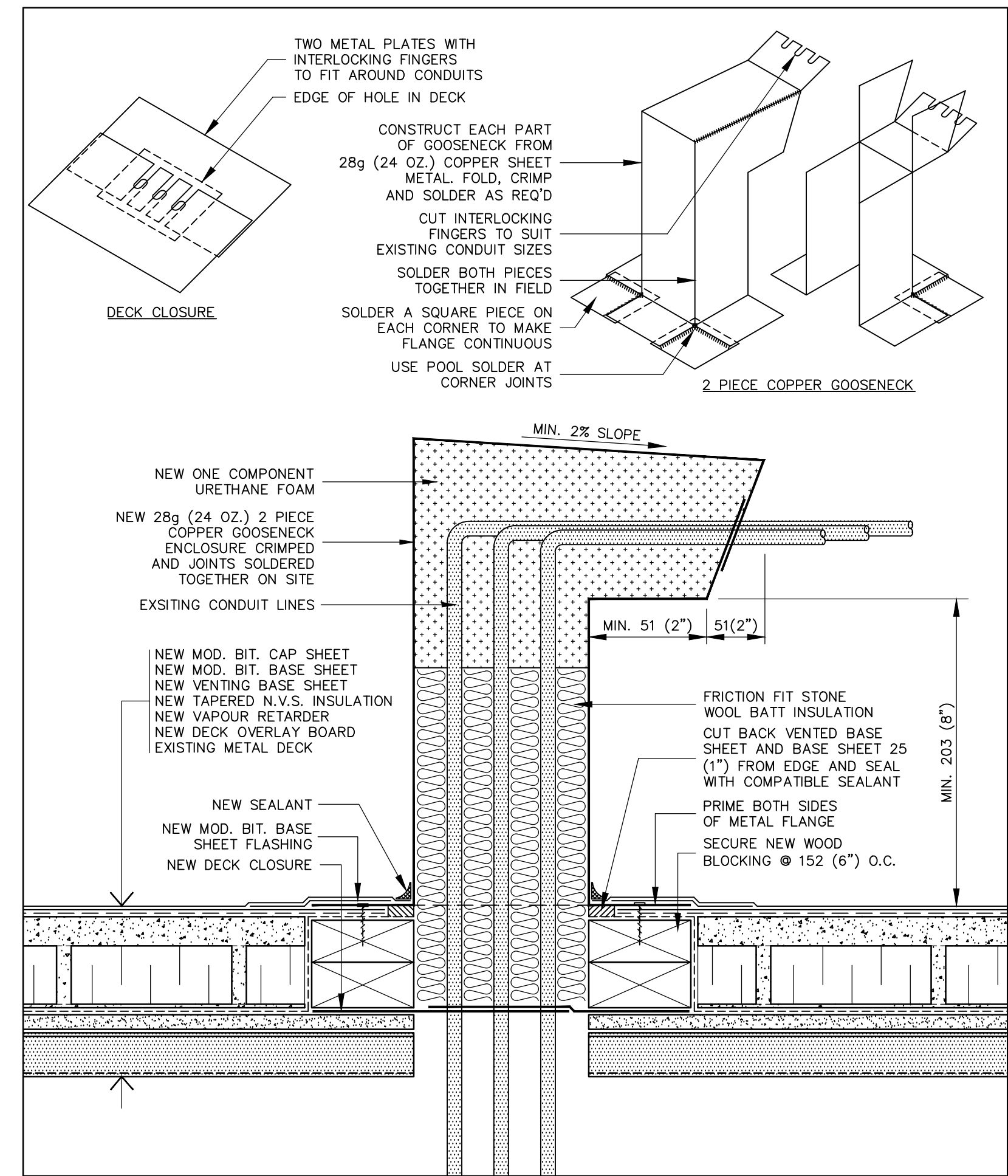
20 RIGID CONDUIT FLASHING DETAIL
A8 SCALE: 1:4



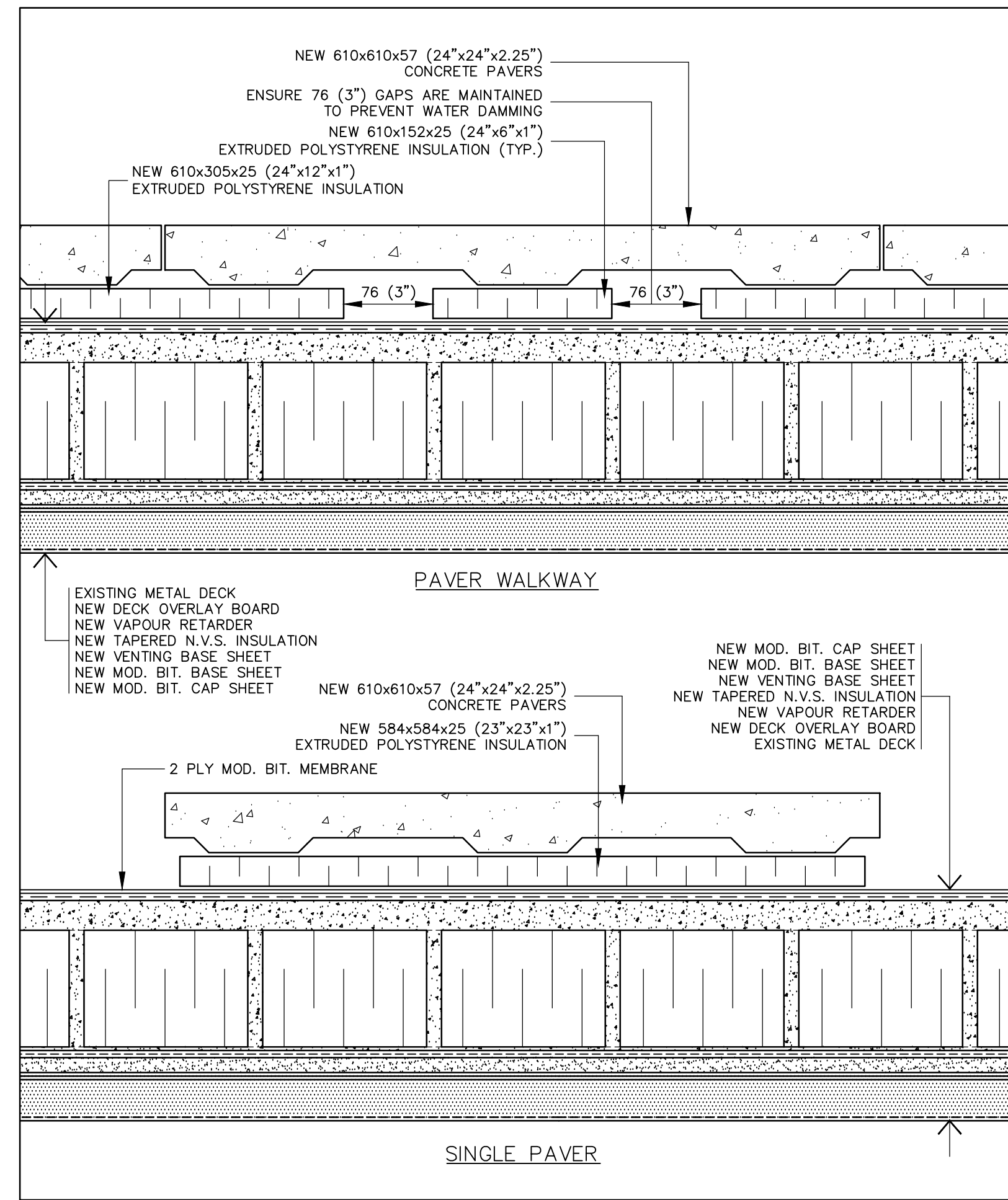
21 RELIEF VENT DETAIL
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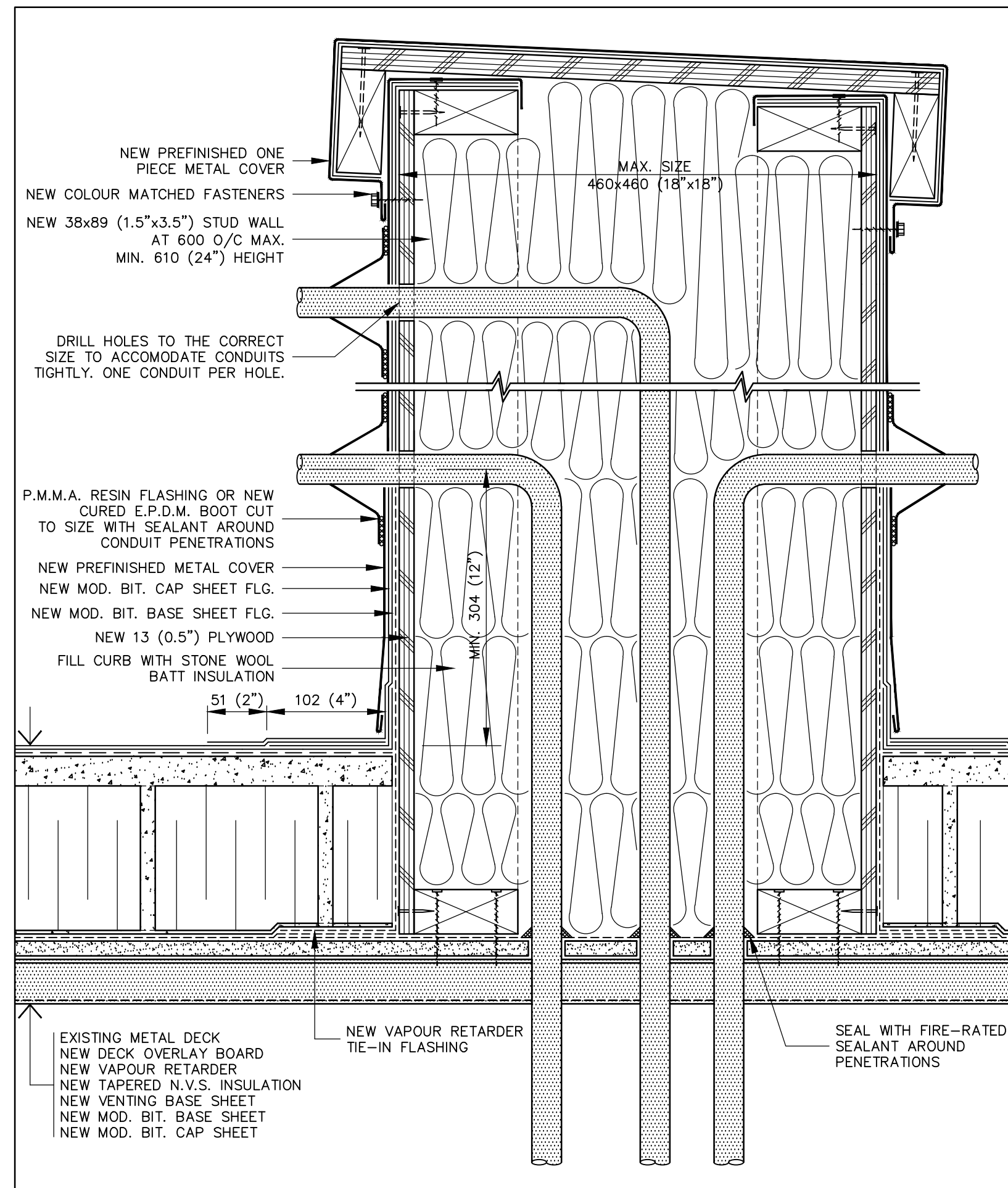
22 MISC. CONDUIT DETAIL
A8 SCALE: 1:4



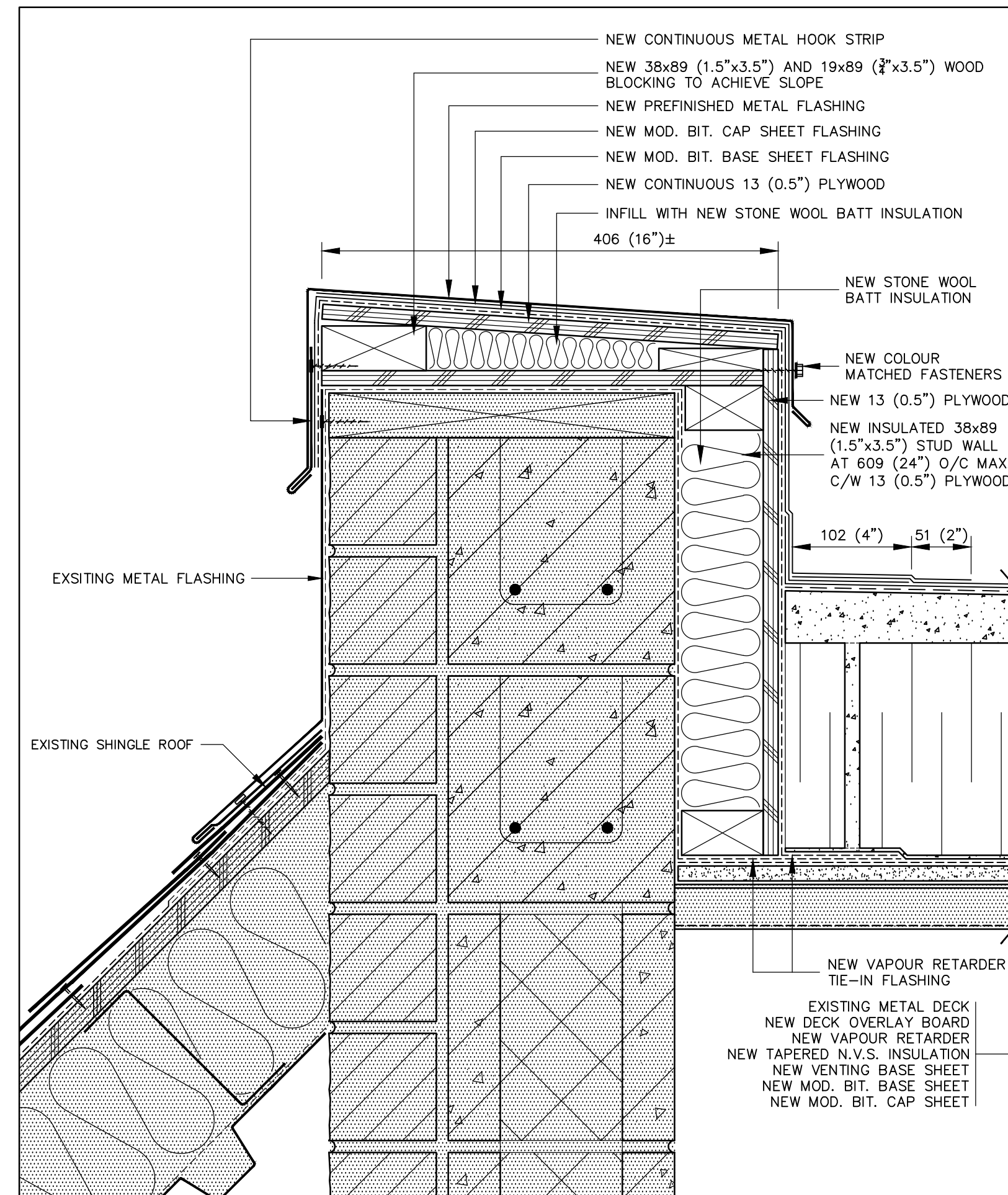
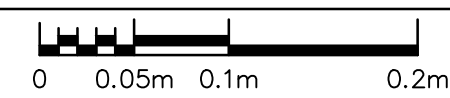
23 CONDUIT DETAIL: COPPER GOOSENECK
A8 SCALE: 1:4



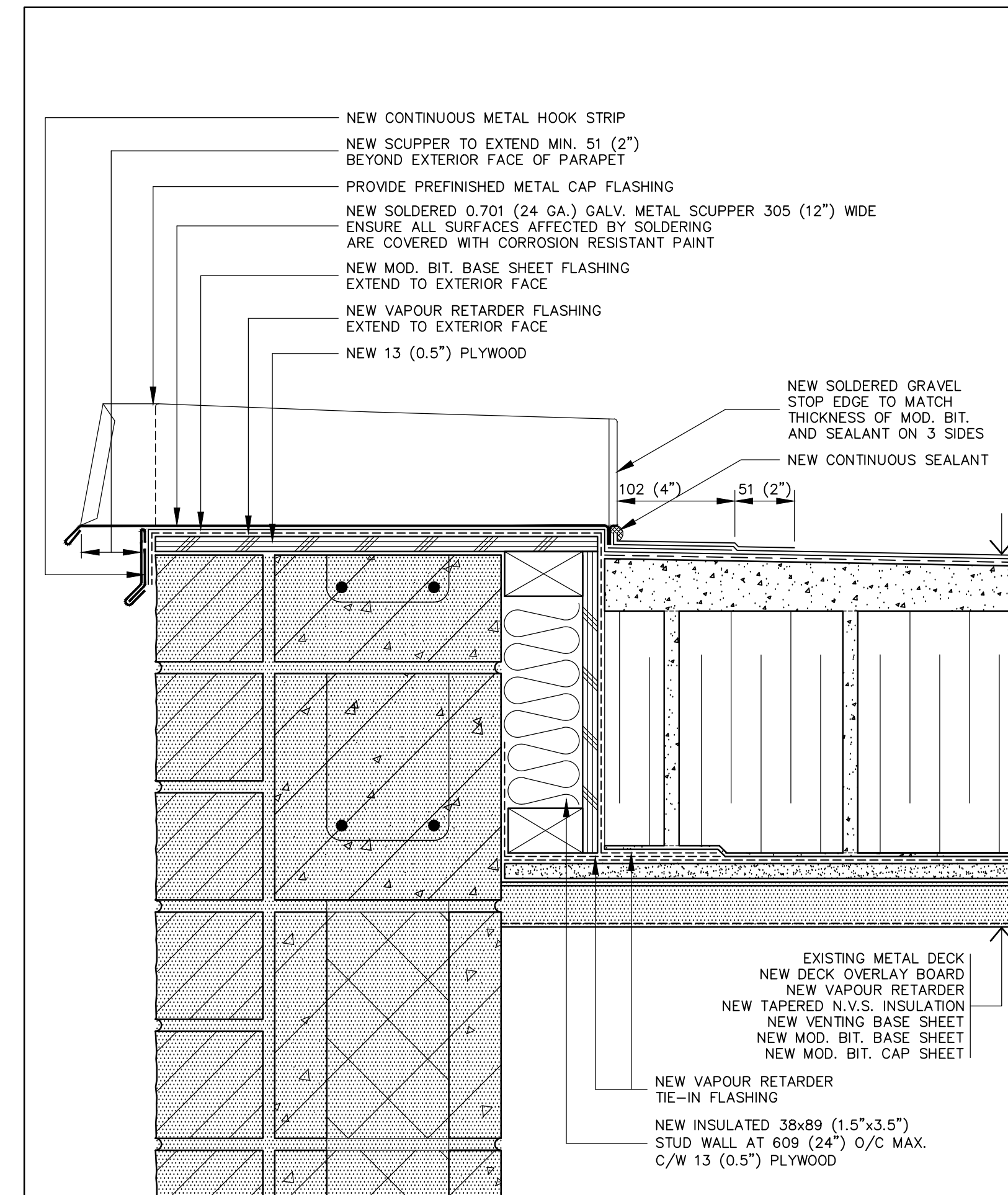
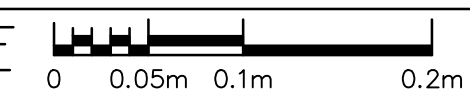
24 WALKWAY/PAVER DETAIL
A8 SCALE: 1:4



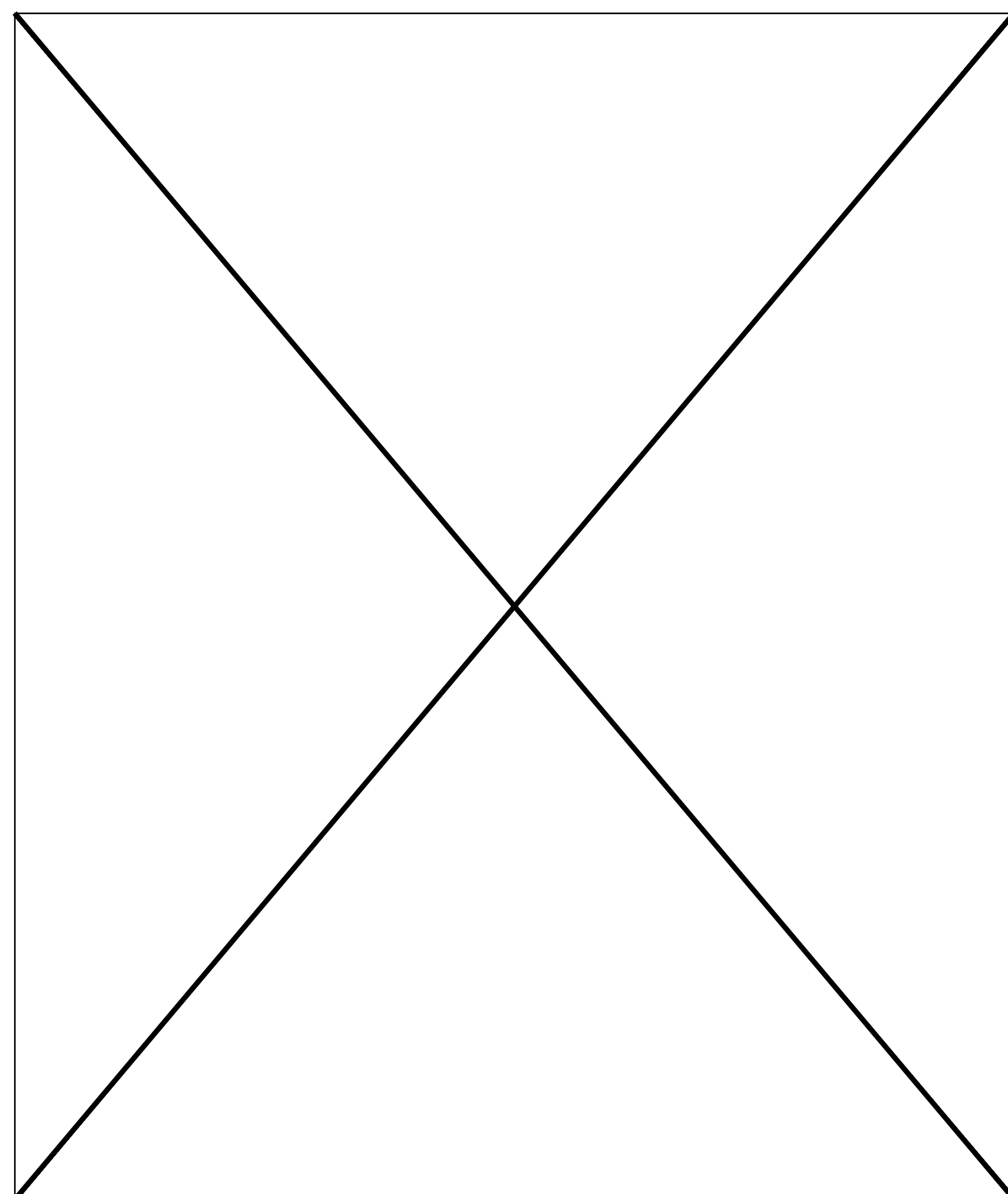
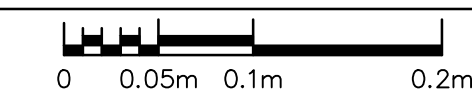
25 DOGHOUSE DETAIL
A9 SCALE: 1:4



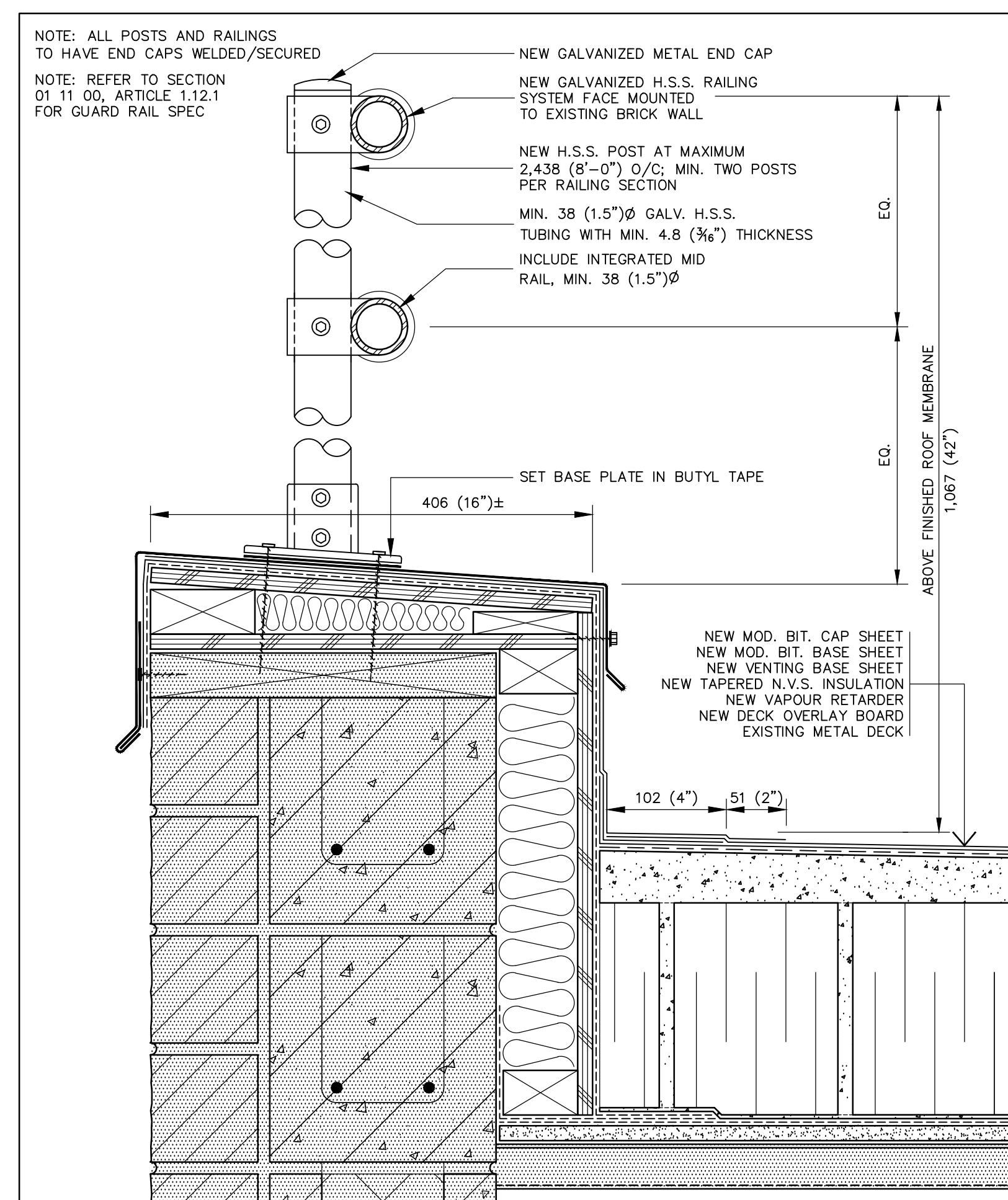
26 PERIMETER DETAIL AT SHINGLE ROOF
A9 SCALE: 1:4



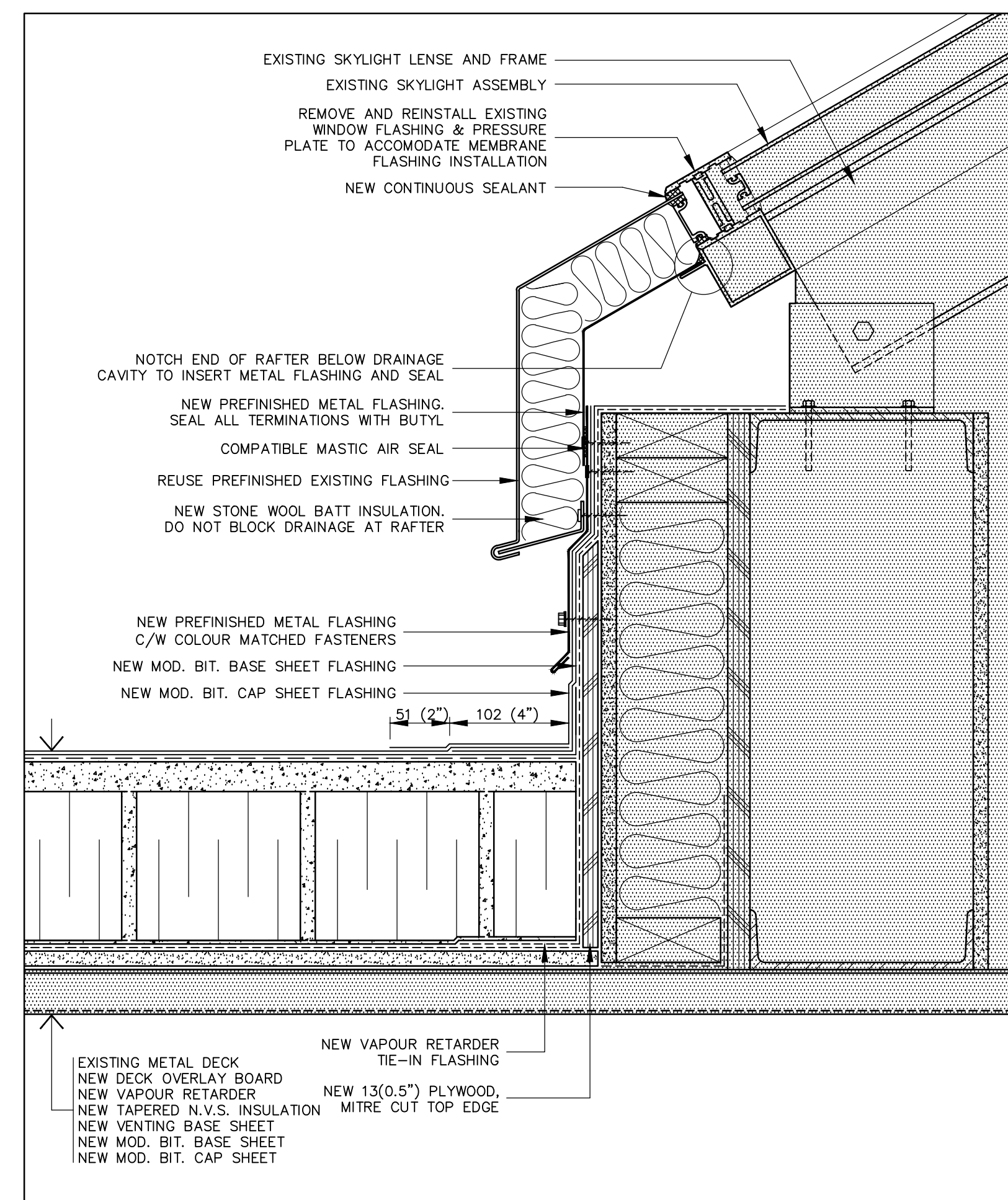
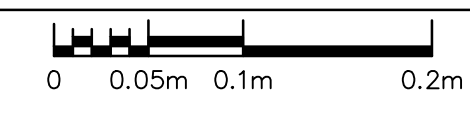
27 OVERFLOW SCUPPER DETAIL
A9 SCALE: 1:4



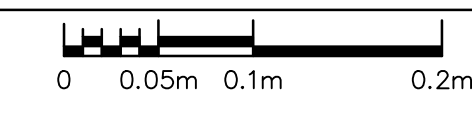
28 UNUSED
A9



29 MOUNTED GUARD RAIL
A9 SCALE: 1:4



30 SKYLIGHT CURB FLASHING DETAIL
A9 SCALE: 1:4



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IRC GROUP: T.K.C.

bid / offre
D.A. project manager / administrateur de projets

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