



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



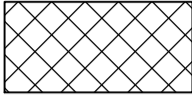

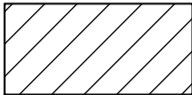




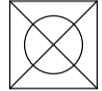












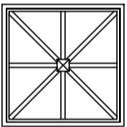








ARCHITECT:

MMC ARCHITECTS

ROOFING CONSULTANT:

IRC BUILDING SCIENCES GROUP INC.

Canada

LIST OF DRAWINGS		LIST OF ABBREVIATIONS		LEGEND		<div><div><div>Public Works and Government Services Canada Architectural and Engineering Services Ontario Region</div></div><div><div>Travaux publics et Services gouvernementaux Canada</div><div>Services d'architecture et de génie Région de l'Ontario</div></div></div>
ROOFING						<div><div><div>MMC ARCHITECTS</div><div><div><div>Brentford Studio</div><div>127 Brant Ave., Brantford, ON N3T 3H5</div><div>519.756.6331</div></div><div><div>K-W Studio</div><div>564 Weber St. N., Suite 1, Waterloo, ON N2L 5C6</div><div>519.575.2227</div></div><div>1.877.789.6662</div><div>www.mmmc.on.ca</div></div></div></div>
A0	TITLE PAGE	AVG.	AVERAGE		ROOF AREAS N.I.C.	<div><div><div>IRC BUILDING SCIENCES GROUP</div><div><div>VANCOUVER • CALGARY • LONDON • MISSISSAUGA • OTTAWA • MONTREAL</div><div>TOLL FREE: 1-888-607-5245</div><div>WWW.IRCGROUP.COM</div></div><div><div>TEL: 905-607-7244</div><div>FAX: 905-607-7288</div></div></div></div>
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	PMMA	POLYMETHYL METHACRYLATE		SATELLITE DISH	
		H.S.S.	HOLLOW STEEL SECTION		SCUPPER	
		GALV.	GALVANIZED		SKYLIGHT	
					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	

KEY PLAN

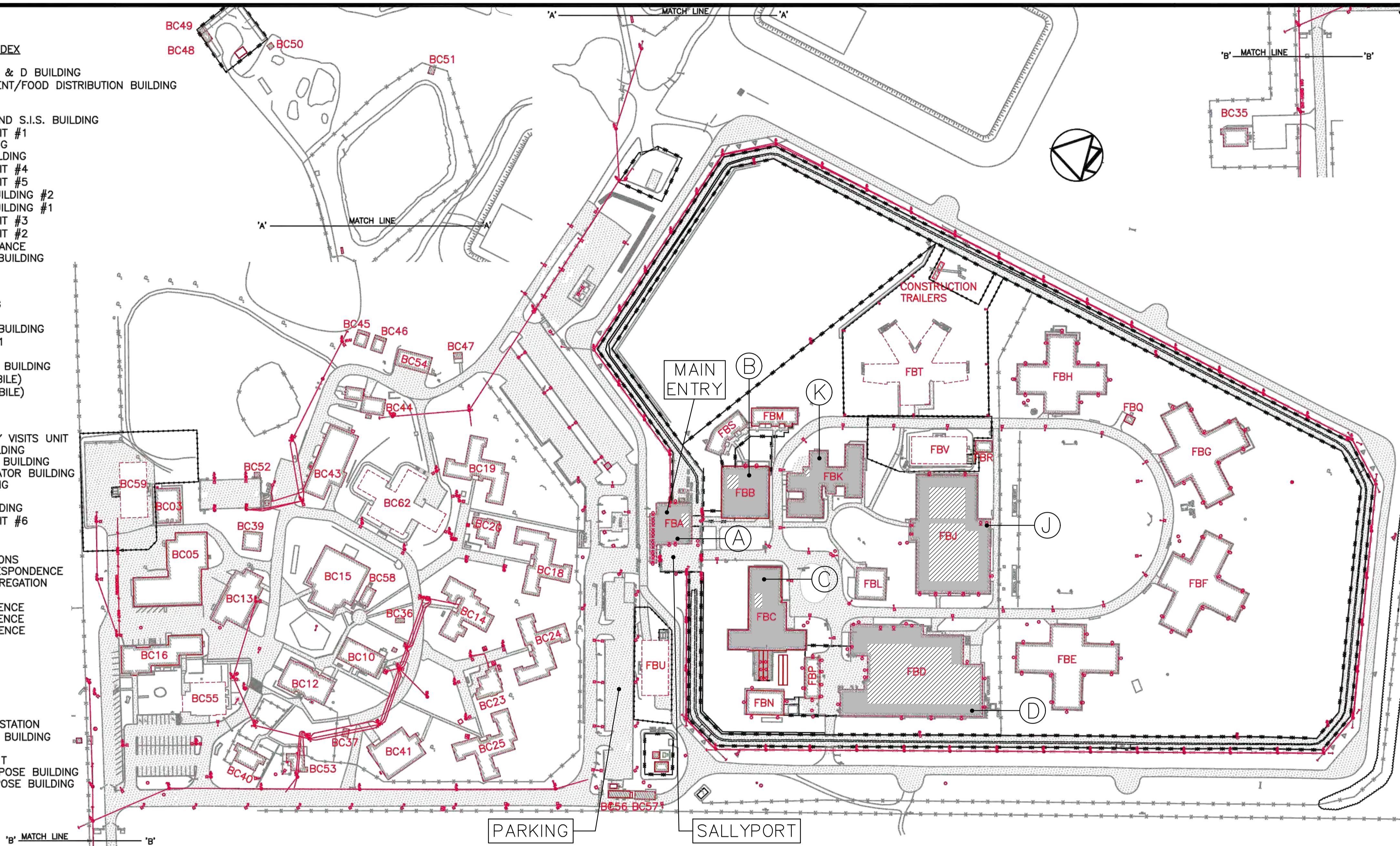
BEAVER CREEK / FENBROOK INSTITUTION

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
Government Services Canada
Architectural and Engineering Services
ONTARIO Region

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

0 20m 100m 200m

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



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

Travaux publics et
Services gouvernementaux Canada
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MMC ARCHITECTS

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www.mmc.on.ca



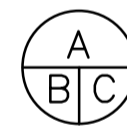
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01	ISSUED FOR BID	2017-03-07
revision		date

Do not scale drawings.
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A Detail No.
No. du détail
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
SITE PLAN

drawn by
dessiné par
PWGSC

designed by
conçu par
PWGSC

approved by
approuvé par
PWGSC

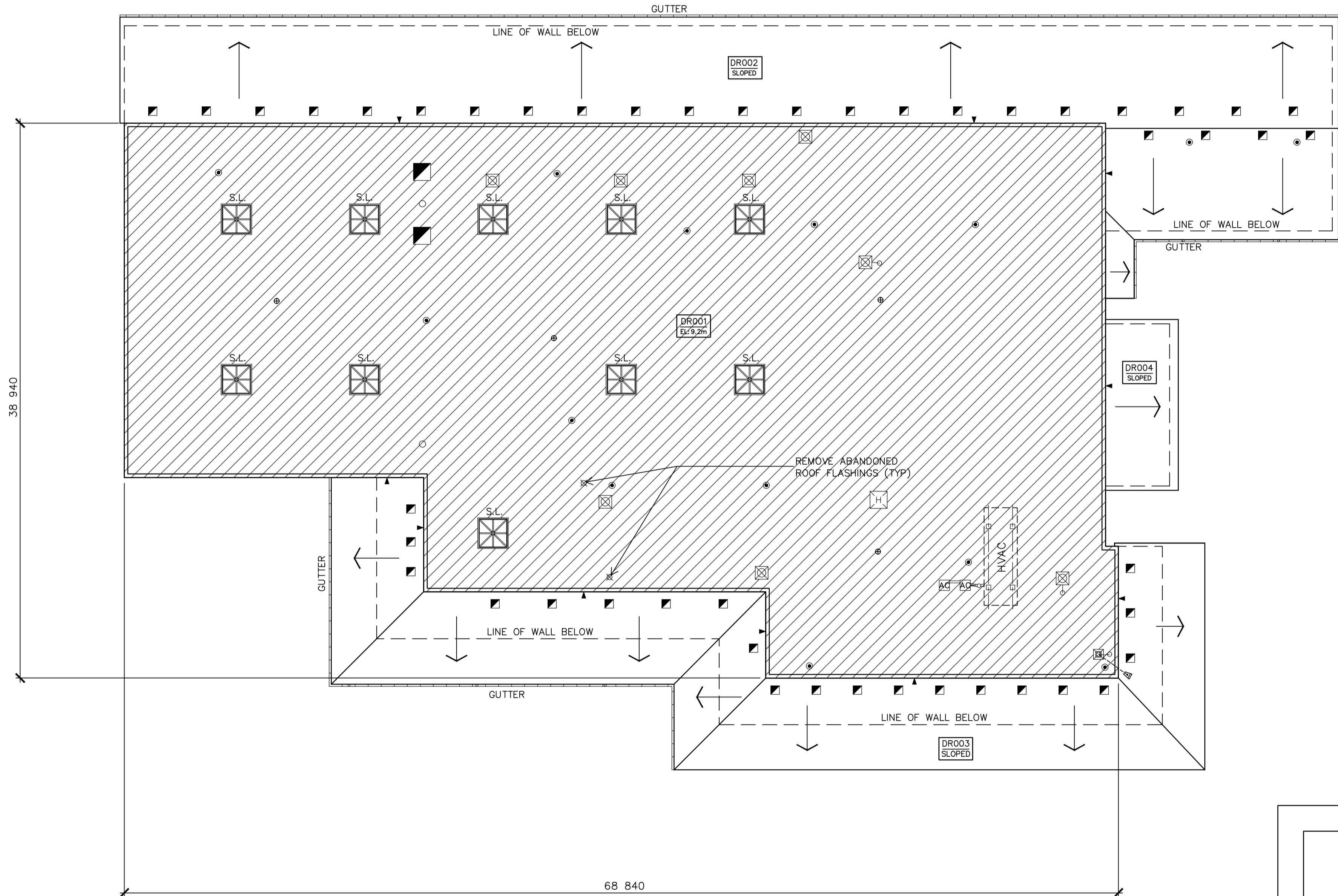
bid
offre
D.A.

project manager
administrateur
de projets

project date
date du projet
2017-03-07

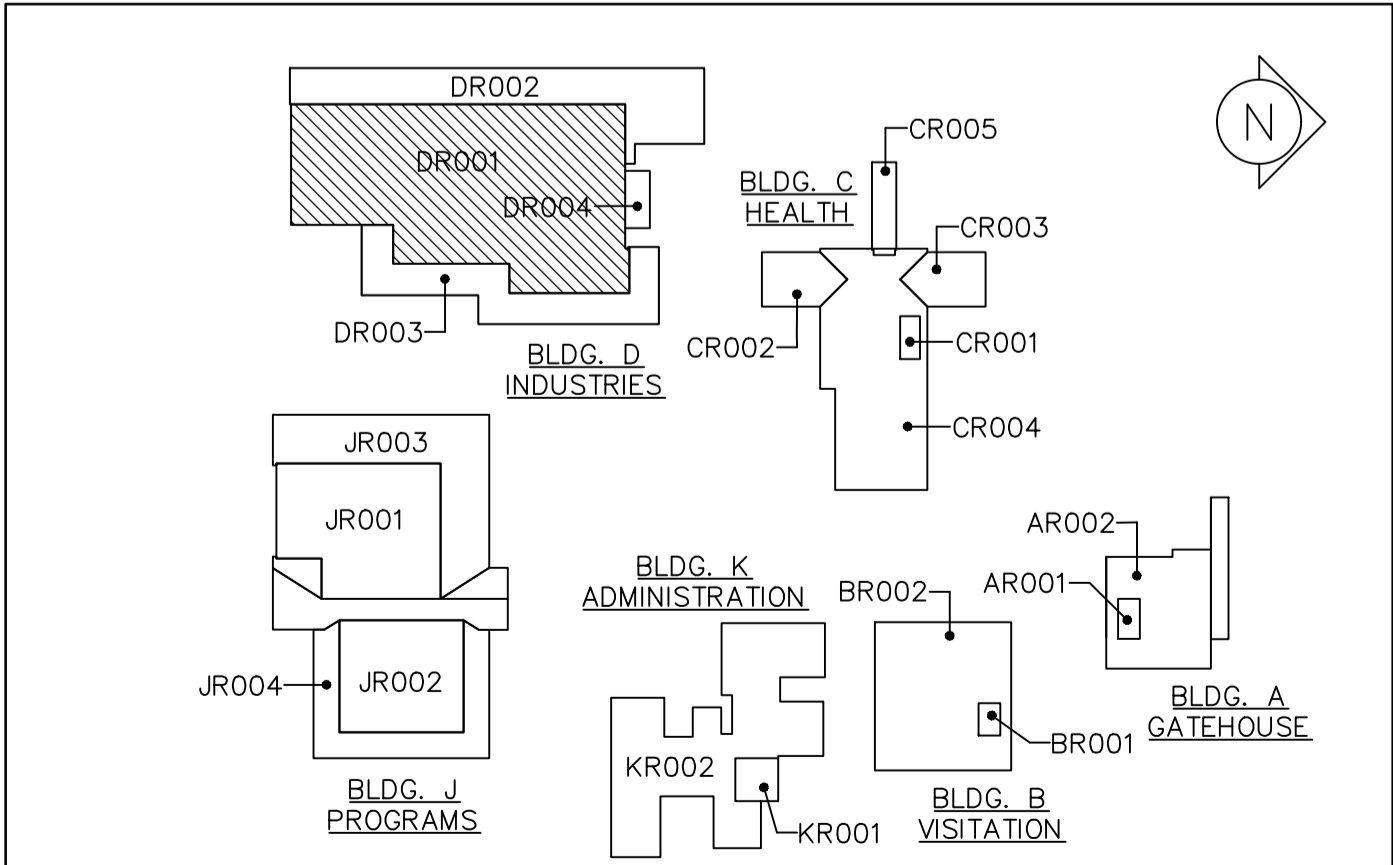
project no.
no. du projet
R.074360.001

drawing no.
dessiné no.
A0.2



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.



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GRAVENHURST Ontario
BEAVER CREEK INSTITUTION - MEDIUM
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
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.
A1.0



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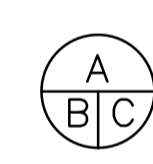




NOTES:
1. NUMBERS SHOWN ON ROOF REPRESENTING ROOF THICKNESS INDICATE BASE INSULATION THICKNESS ONLY. ADD 31.75(1.25") TO SYSTEM THICKNESS FOR N.V.S. CONCRETE TOP POUR ON TAPERED N.V.S. INSULATION AREAS
2. VERIFY DRAIN LOCATIONS & NUMBER BEFORE INSTALLATION OF TAPERED N.V.S. INSULATION SYSTEM. REVIEW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



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	C drawing no. - where detailed dessin no. - où détaillé

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GRAVENHURST Ontario
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
conçue par
IRC GROUP: A.J.D.

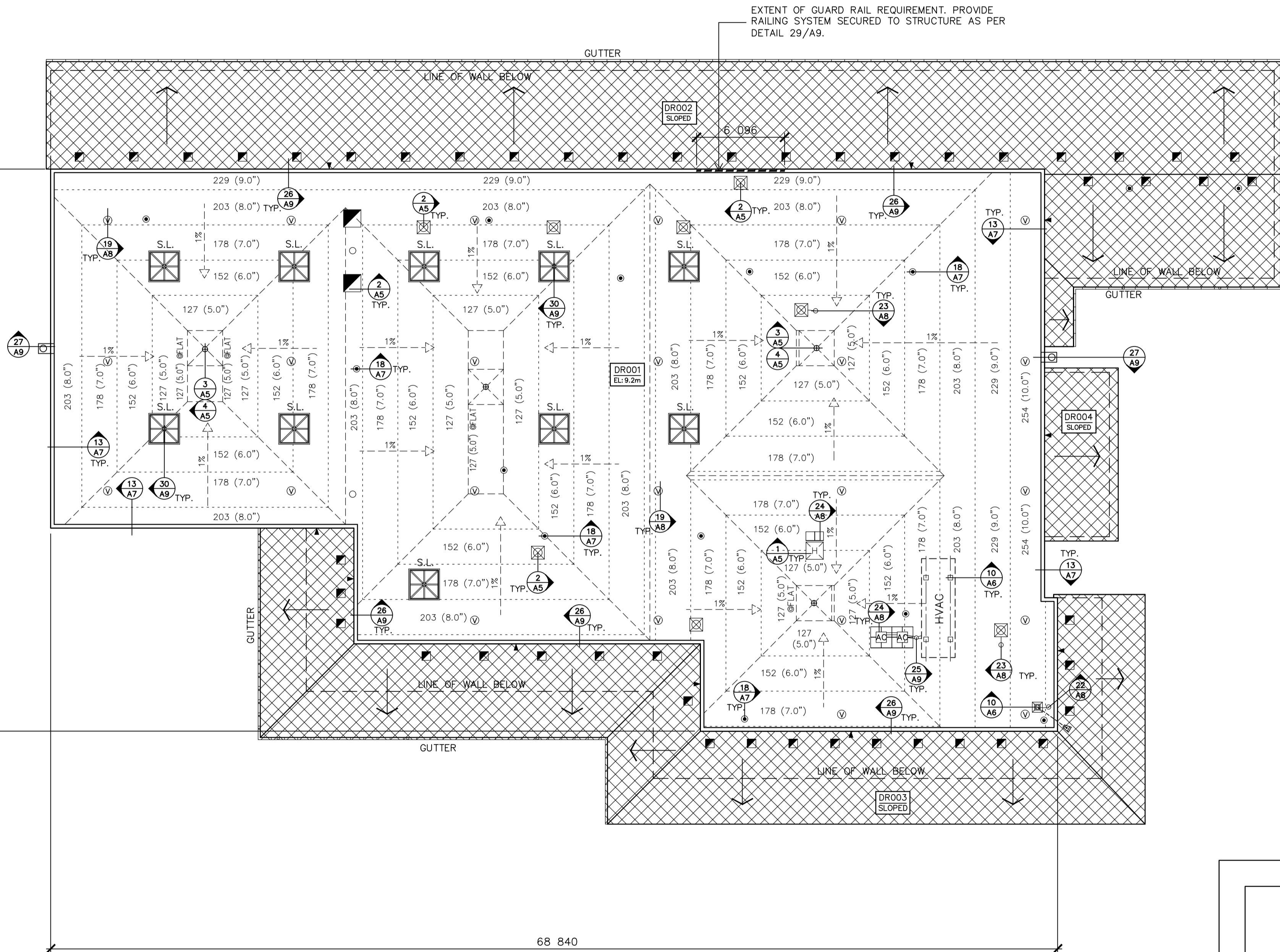
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A.

project date
date du projet
2017-03-07

project no.
no. du projet
R.074360.001

drawing no.
dessiné no.
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

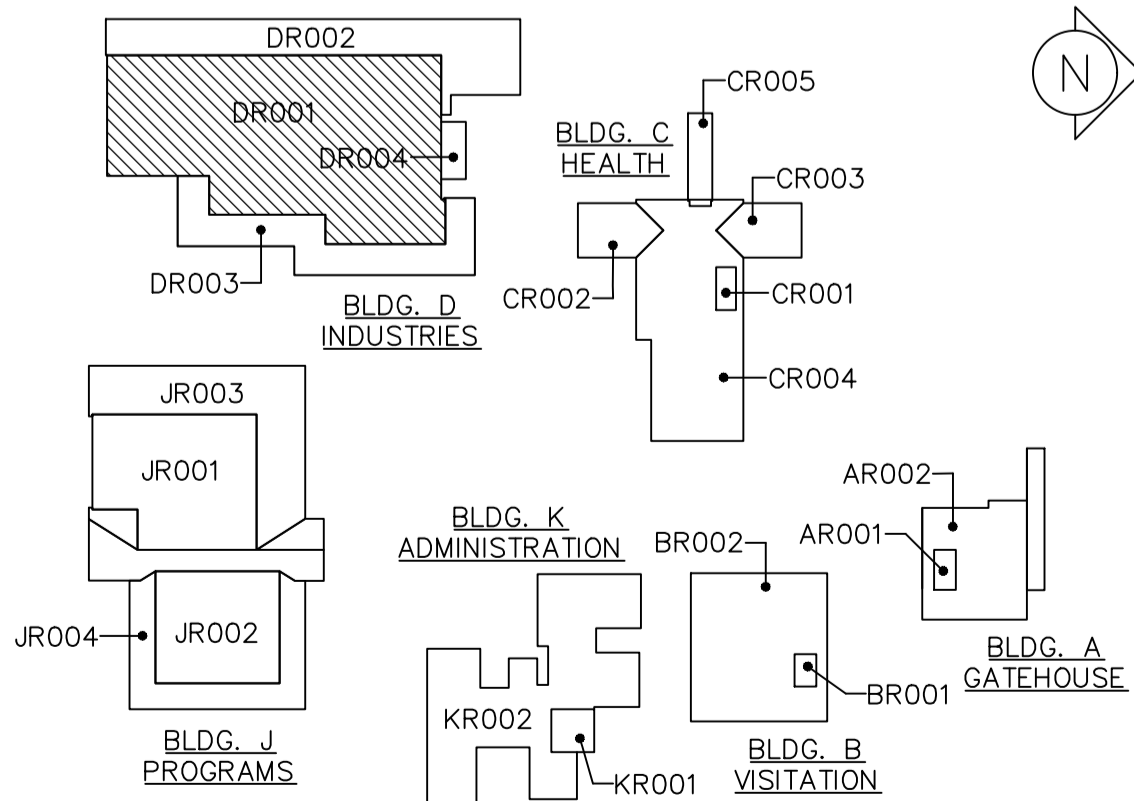
EXISTING METAL DECK
13 (0.5") DECK OVERLAY BOARD
1 PLY MOD. BIT. VAPOUR RETARDER
TAPERED N.V.S. INSULATION, AVG. RSI 5.28 (R30)
VENTING BASE SHEET
2 PLY MODIFIED BITUMEN MEMBRANE

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

DR001 - 2,248 (24,200)
DR002 - 819 (8,816)
DR003 - 573 (6,168)
DR004 - 64 (689)

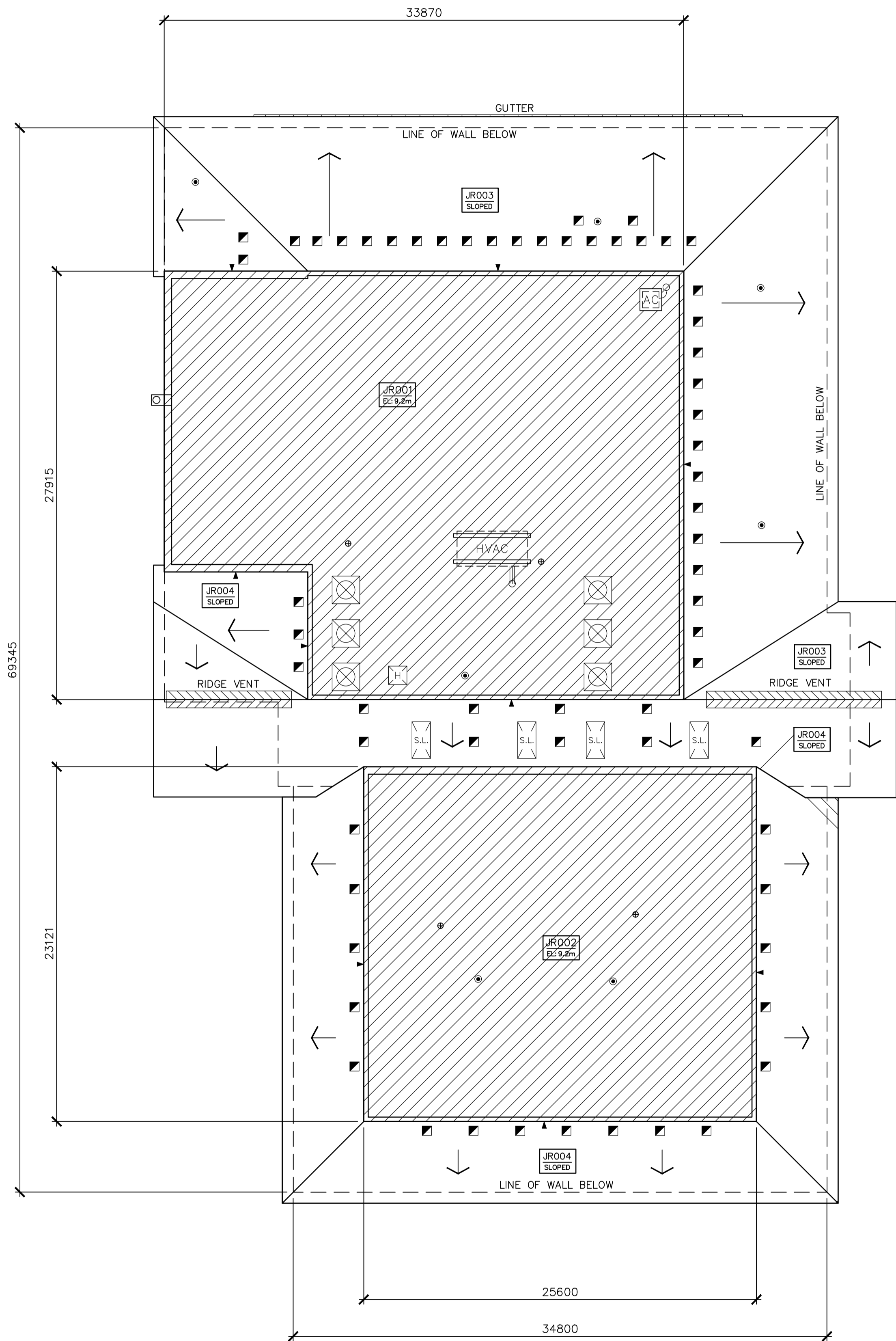
TOTAL = 3,704 (39,873)*

*PROVIDED AS REFERENCE.
CONTRACTORS TO CONFIRM
OWN MEASUREMENTS.



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

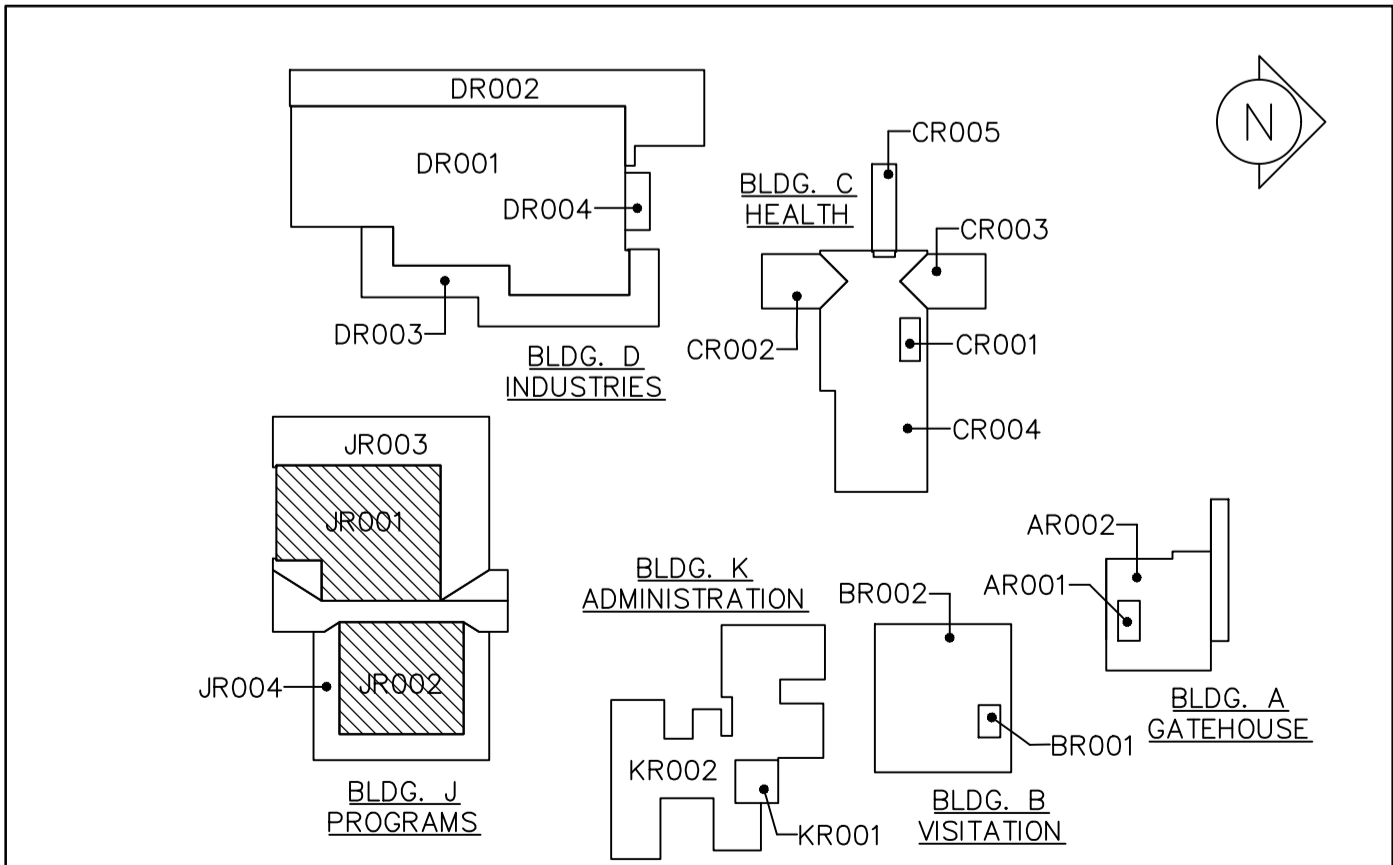
1 BLDG. D PARTIAL ROOF PLAN
A1.1 SCALE: 1 : 200



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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C	drawing no. - where detailed

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

drawing title
titre du dessin
ROOF DEMOLITION PLAN
BUILDING J AND KEYPLAN

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

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

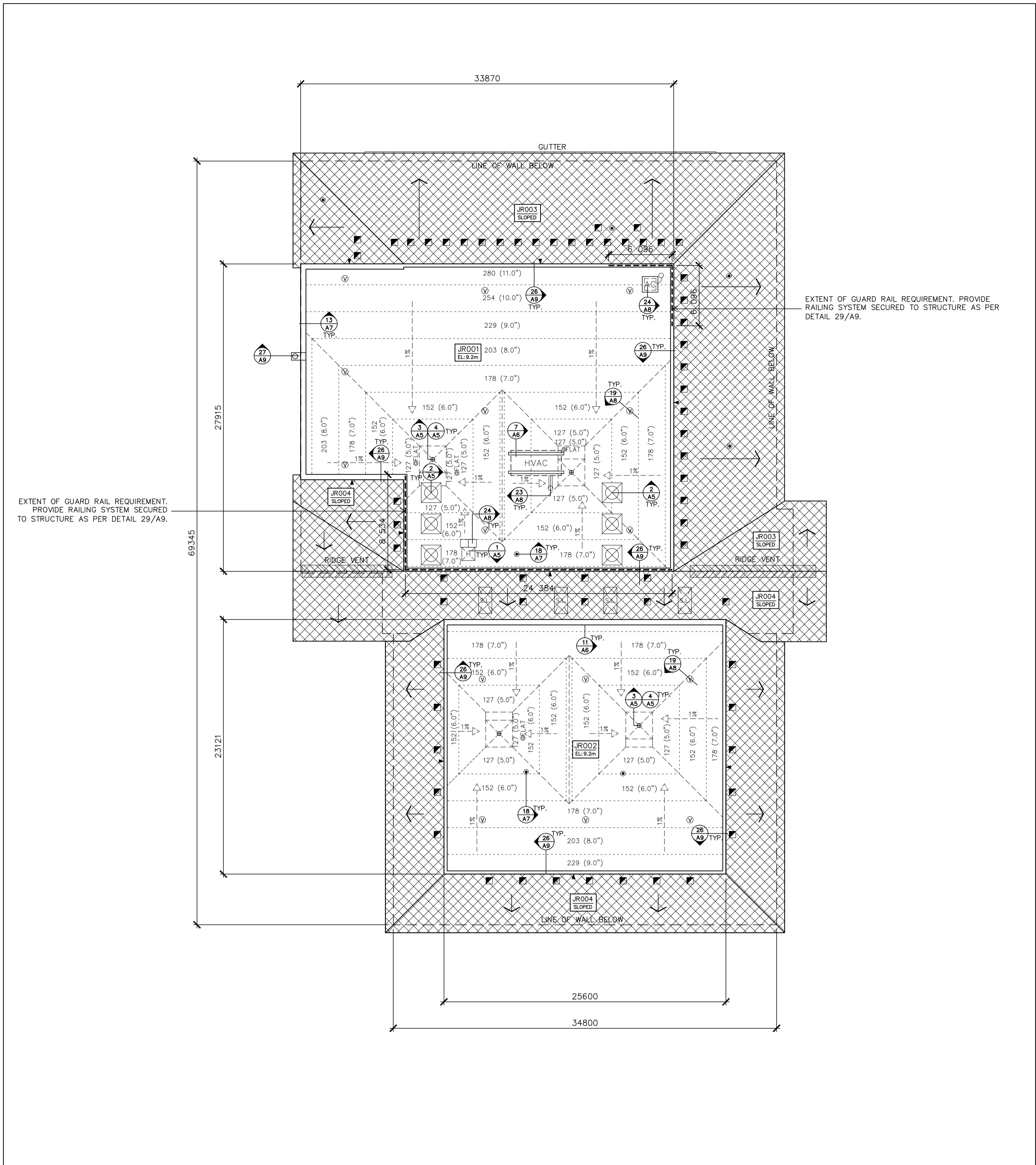
approved by
approuve par
IRC GROUP: T.K.C.

bid
offre
D.A.

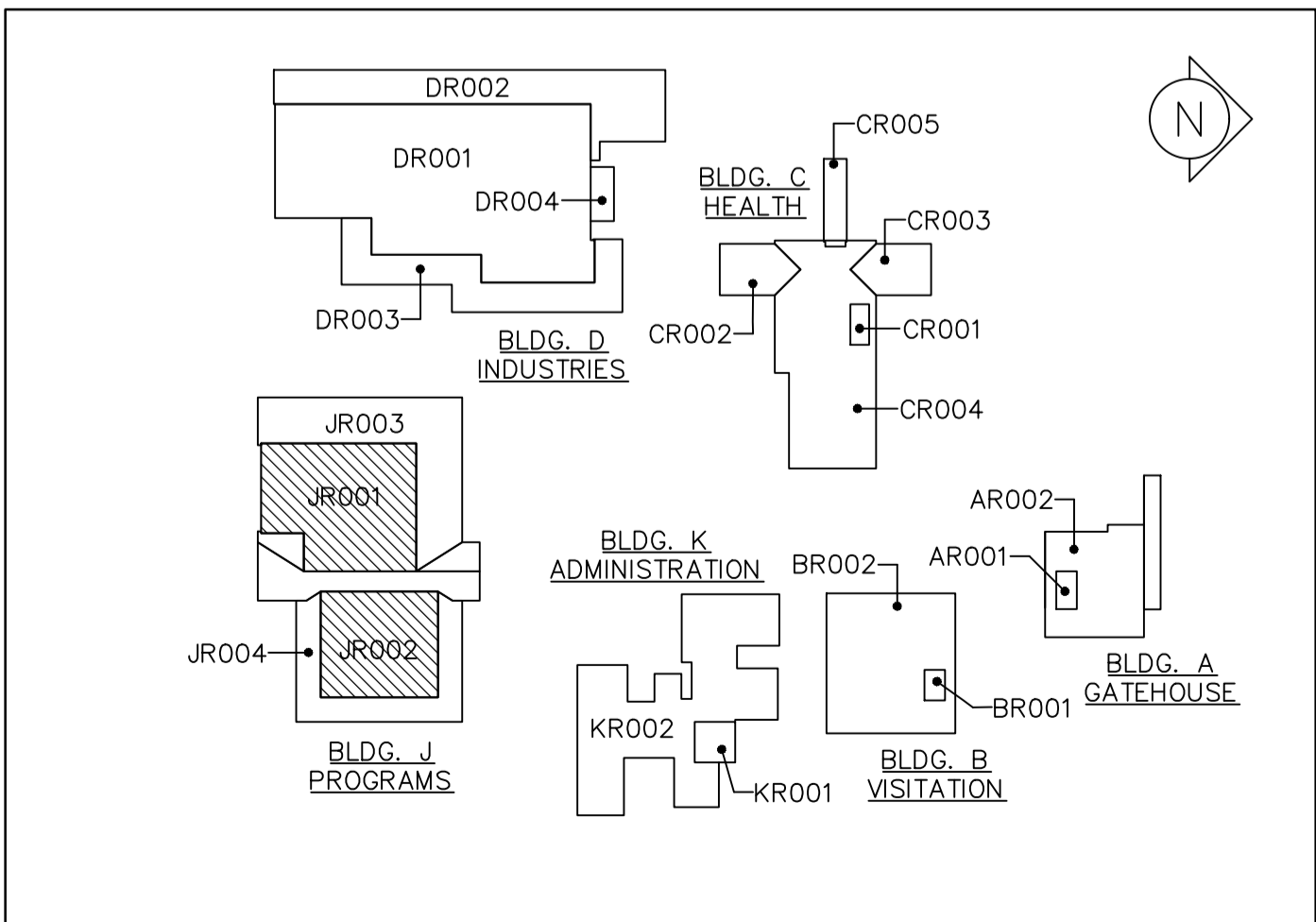
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project no.
no. du projet
R.074360.001

drawing no.
dessine 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.)

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NOTES:
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drawing title
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ROOF 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.

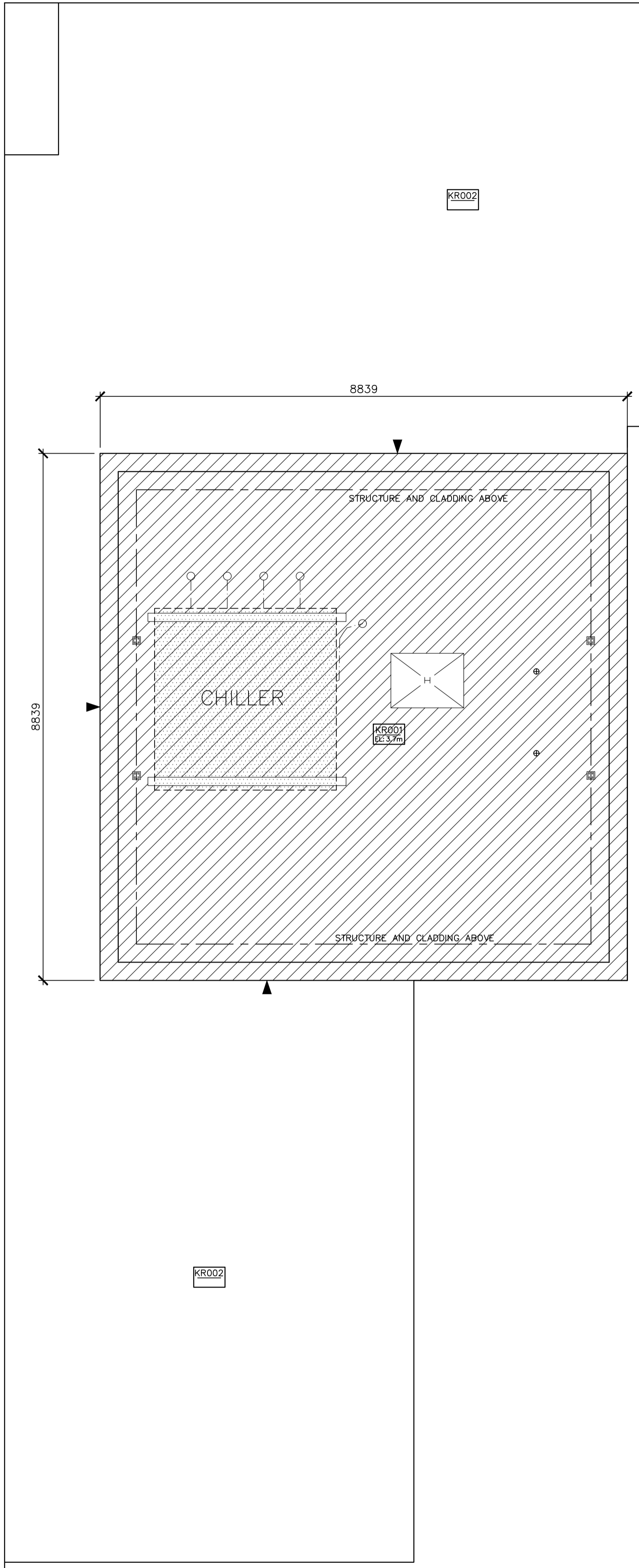
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dessiné no.
A2.1

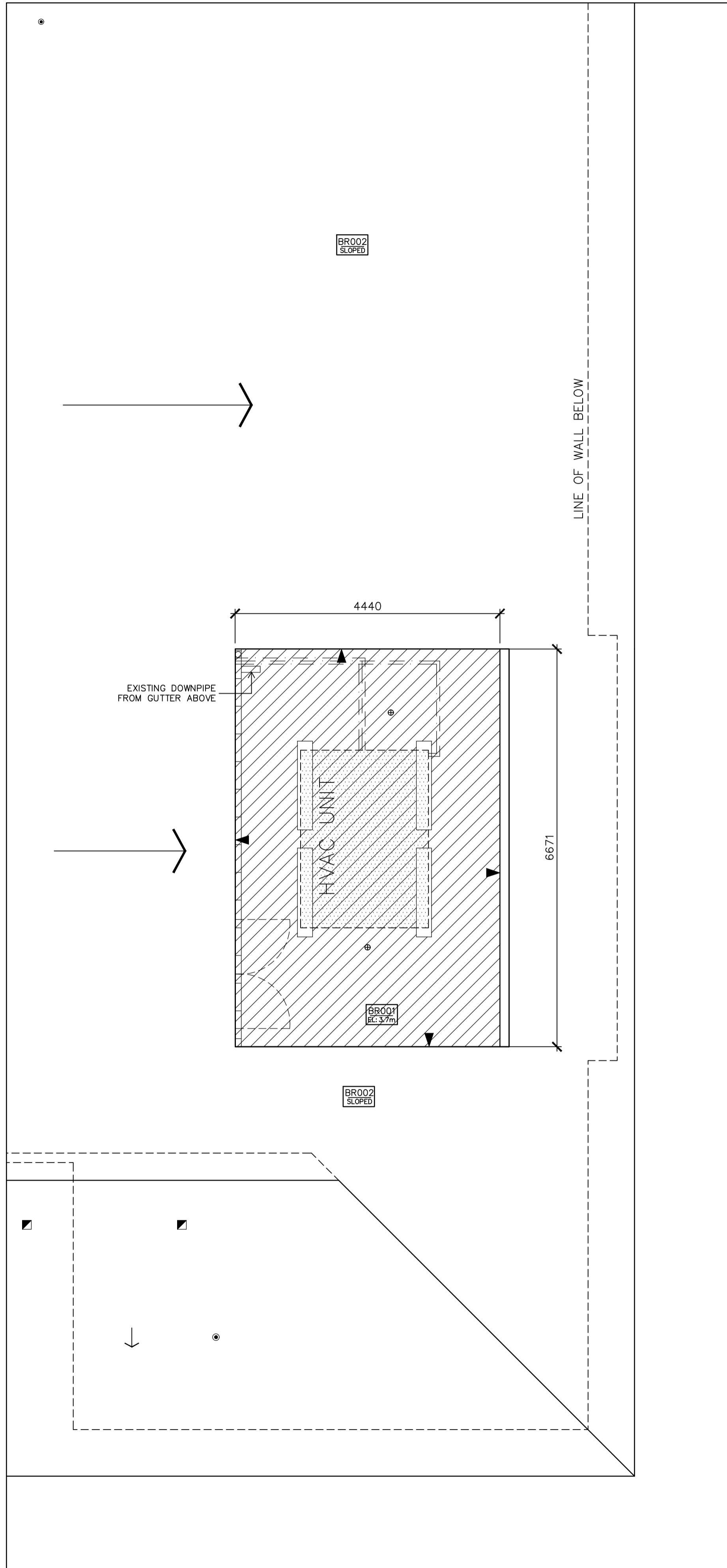
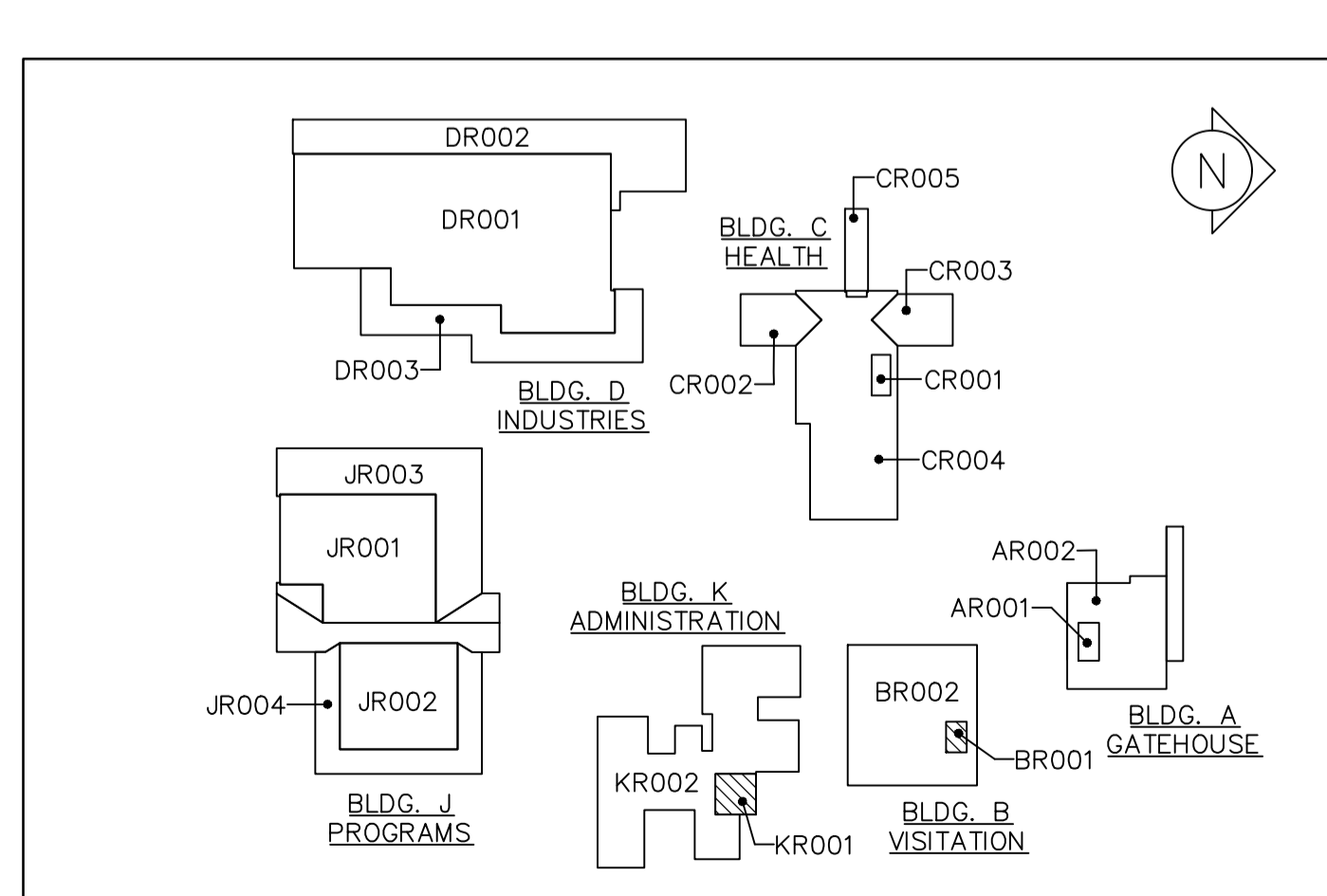


EXISTING ROOF COMPOSITION(S):
BUILDING B – VISITATION
ROOF AREA BR001
CONCRETE DECK
2 PLY No. 15 FELT VAPOUR RETARDER
89 (3.5") POLYISOCYANURATE INSULATION
13 (0.5") FIBREBOARD INSULATION
4 PLY ASPHALT B.U.R. MEMBRANE
ALUMINIZED COATING
ROOF AREA BR002
METAL DECK
1 PLY POLYETHYLENE VAPOUR RETARDER
51 (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)*
*PROVIDED AS REFERENCE.
CONTRACTORS TO CONFIRM
OWN MEASUREMENTS.

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

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

3 BLDG. B PARTIAL ROOF PLAN
A3.0 SCALE: 1 : 50
0 0.5m 1m 2m 3m
SCALE 1:50

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

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Brentford Studio K-W Studio
127 Brant Ave., Brantford, 564 Weber St. N., Suite 1, Waterloo,
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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
dessine par
IRC GROUP: F.R.A./B.M.W.

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

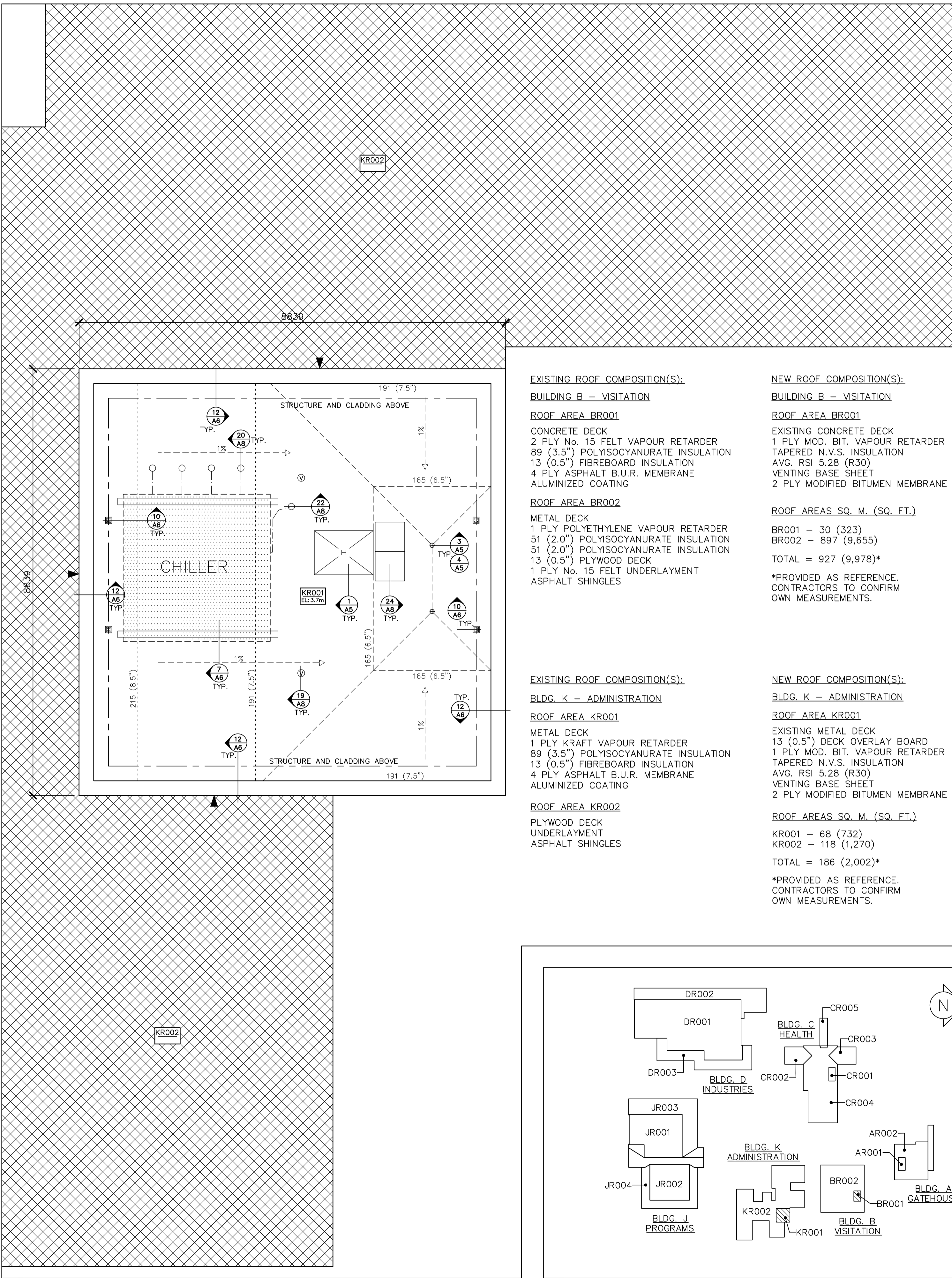
approved by
approuve par
IRC GROUP: T.K.C.

bid
offre
D.A.

project date
date du projet
2017-03-07

project no.
no. du projet
R.074360.001

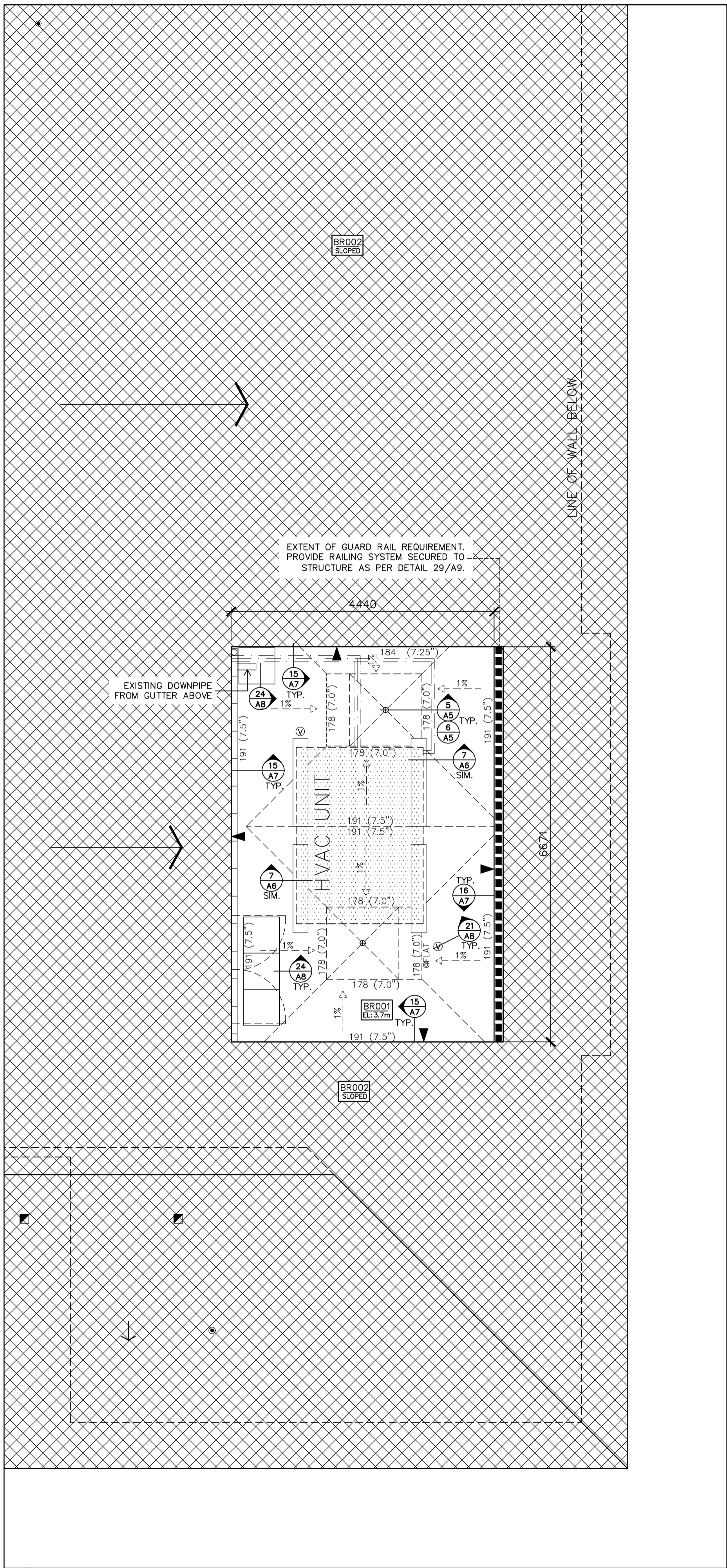
drawing no.
dessine no.
A3.0



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

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

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



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

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

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



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<div><div>A</div><div>B</div><div>C</div></div>	<div>A Detail No. No. du détail</div> <div>B drawing no. - where detail required dessin no. - où détail exigé</div> <div>C drawing no. - where detailed dessin no. - où détaillé</div>
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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
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
offre
D.A.

project manager
administrateur
de projets

project date
date du projet
2017-03-07

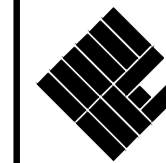
project no.
no. du projet
R.074360.001

drawing no.
dessiné no.
A3.1



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Travaux publics et
Services gouvernementaux Canada
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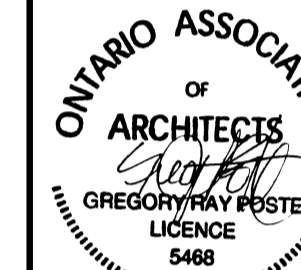


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BEAVER CREEK INSTITUTION - MEDIUM
CORRECTIONAL SERVICE CANADA
2000 BEAVER CREEK DRIVE
ROOF REPLACEMENT

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

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

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

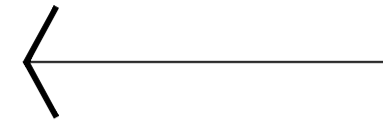
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A.

project date
date du projet
2017-03-07

project no.
no. du projet
R.074360.001

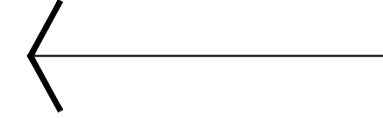
drawing no.
dessiné no.
A4.0

AR002
SLOPEDEXISTING DOWNPIPE
FROM GUTTER ABOVEAR001
85.72m

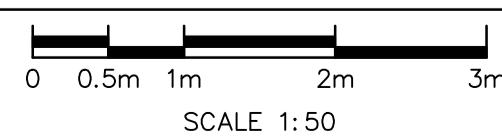
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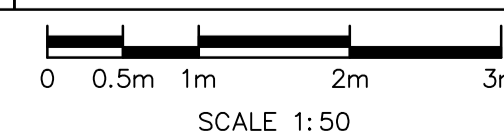
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AR002
SLOPED

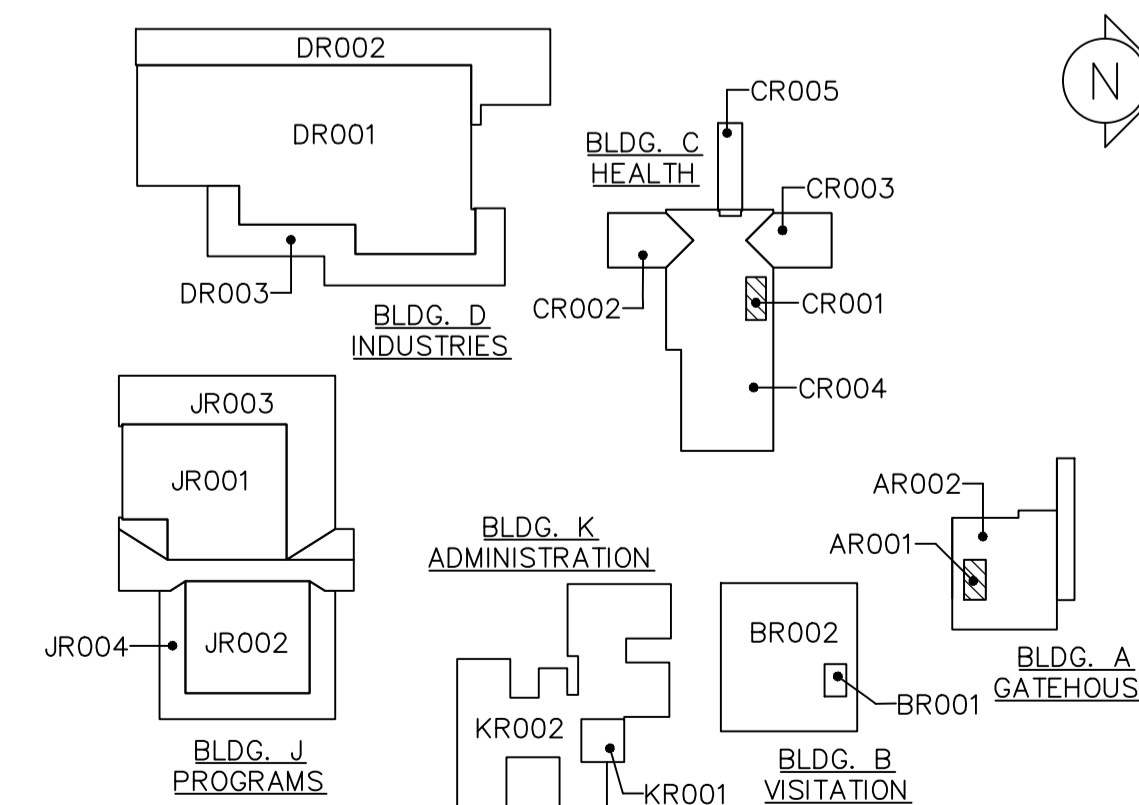
1 BLDG. A PARTIAL ROOF PLAN
A4.0 SCALE: 1 : 50



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



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

EXISTING ROOF COMPOSITION(S):BUILDING A - GATEHOUSEROOF 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 - HEALTHROOF 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

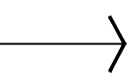
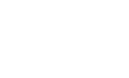
(NO CORE CUT TAKEN)
METAL DECK
1 PLY POLYVINYL CHLORIDE MEMBRANE

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)*

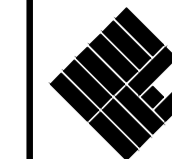
*PROVIDED AS REFERENCE.
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EXISTING DOWNPIPE
FROM GUTTER ABOVECR004
SLOPED



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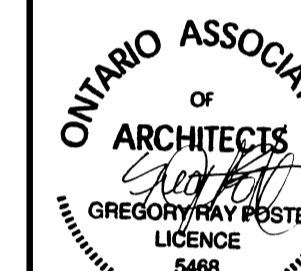


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WWW.IRCGROUP.COM FAX: 905-607-7288

NOTES:

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2. VERIFY DRAIN LOCATIONS & NUMBER BEFORE INSTALLATION OF TAPERED NVS INSULATION SYSTEM. REVIEW ANY REQUIRED ADJUSTMENTS AND MODIFICATIONS BEFORE STARTING INSTALLATION.



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- | | |
|----------|---|
| A | Detail No.
No. du détail |
| 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
dessine par

designed by
conc par

IRC GROUP: A.J.D.

approved by
approuvé par

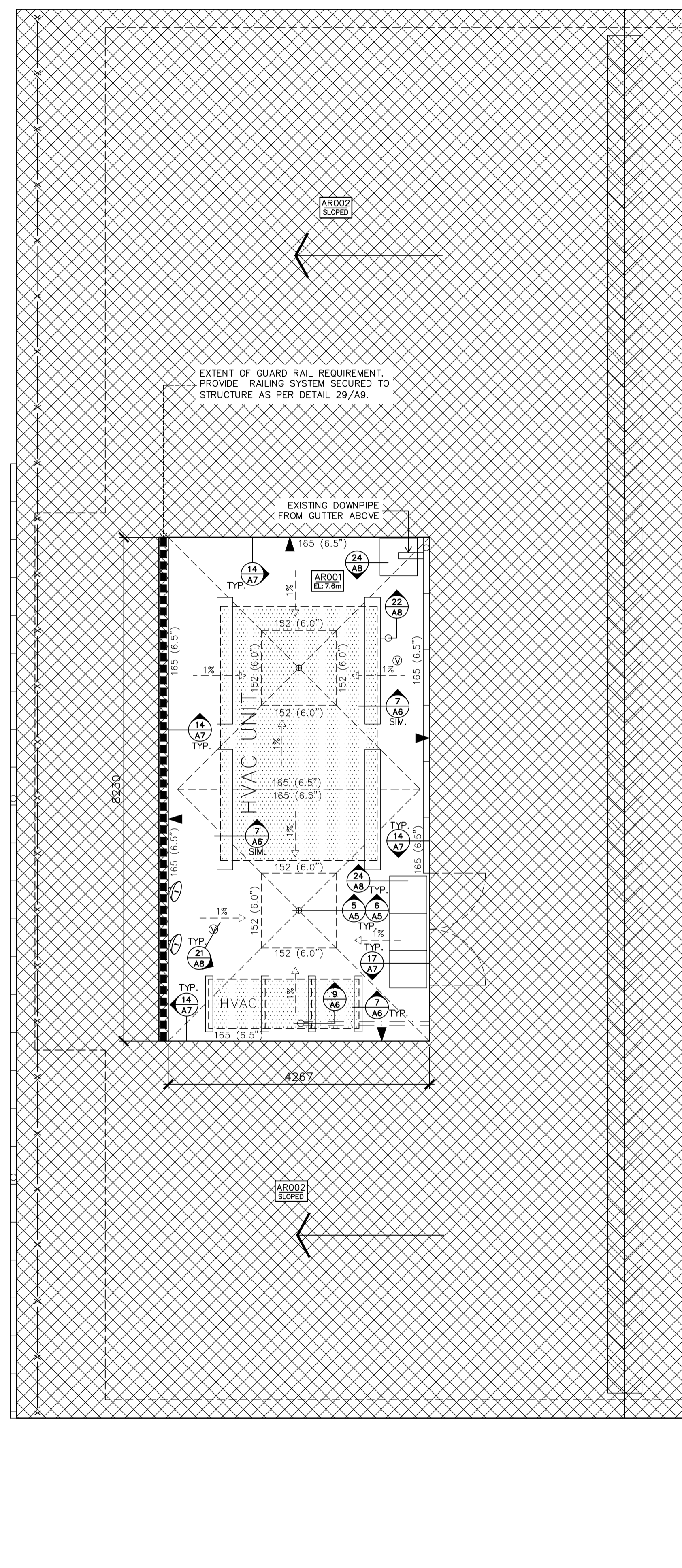
bid	project manager
offre	administrateur de projet
D.A.	

project date	
date du projet	2017-03-07

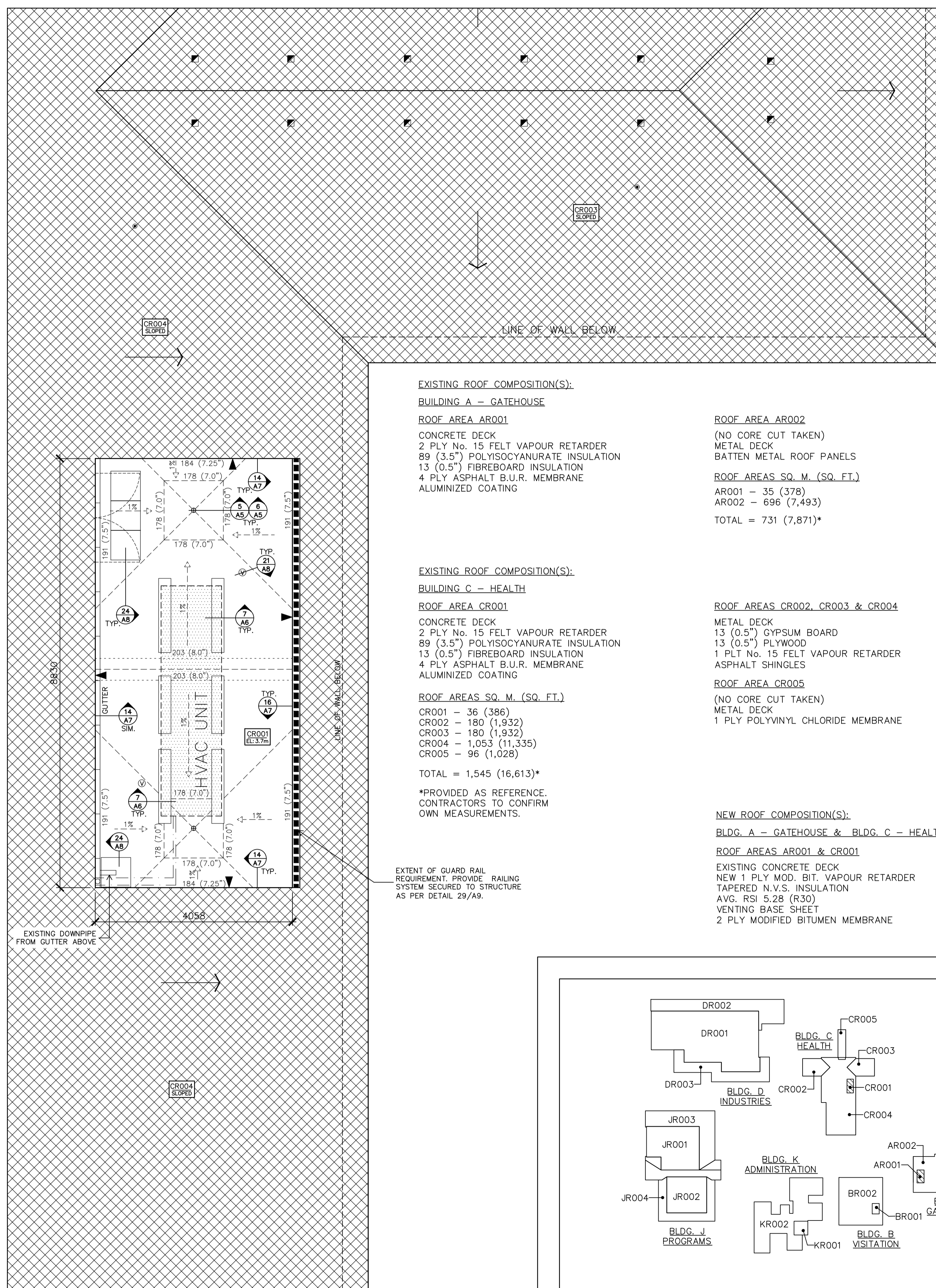
project no.	
no. du projet	

R.074360.001

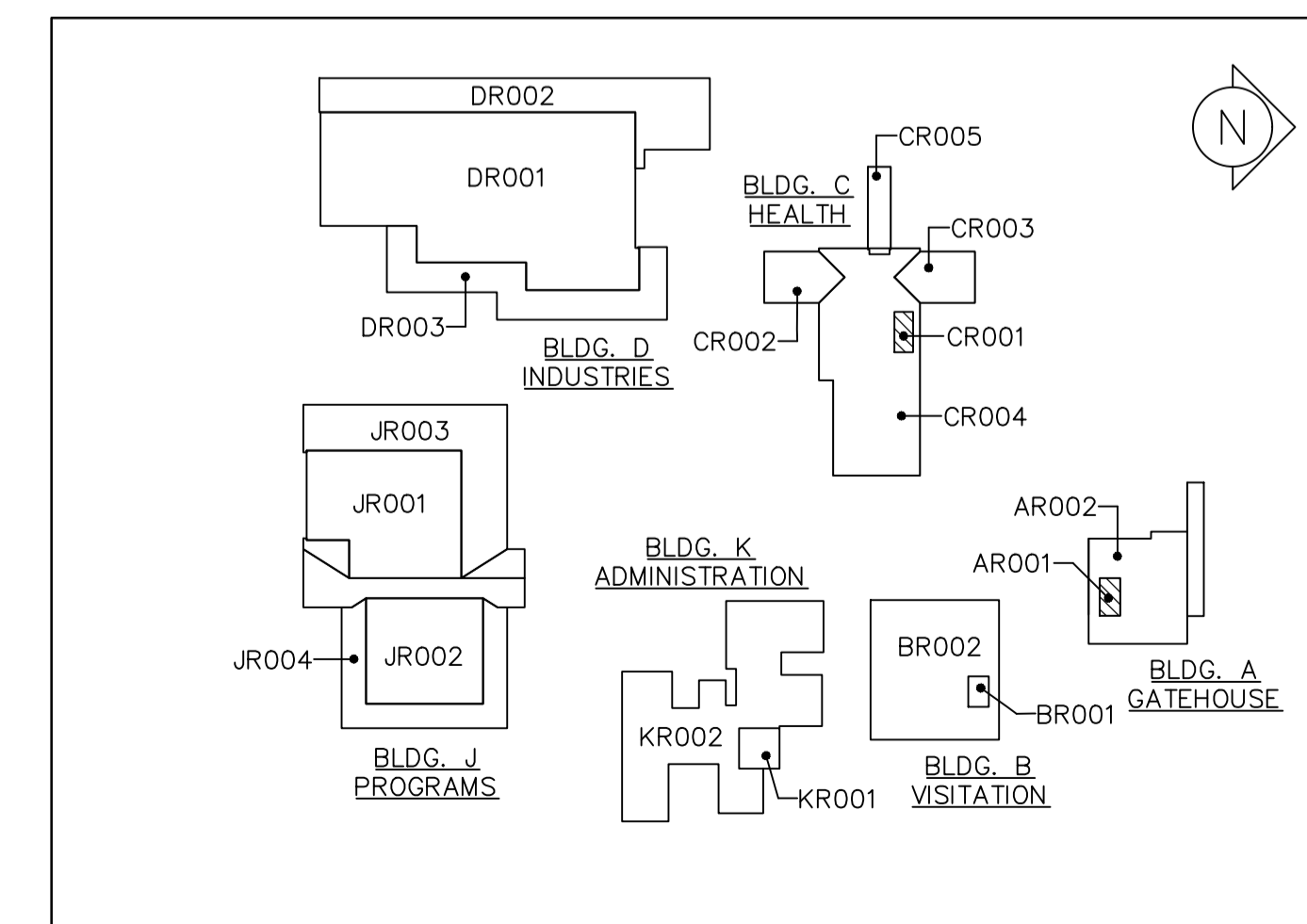
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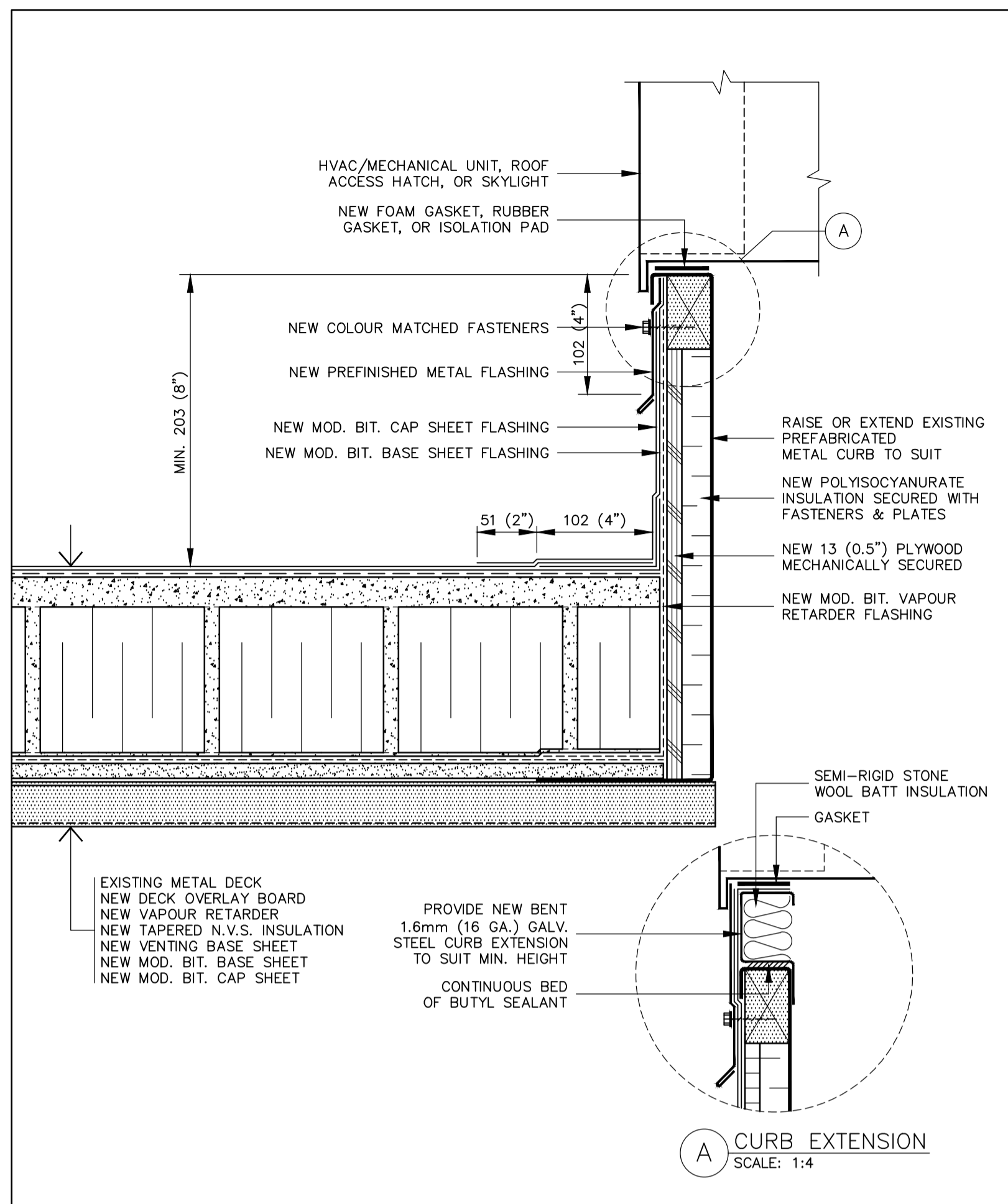
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A4.1 SCALE: 1 : 50



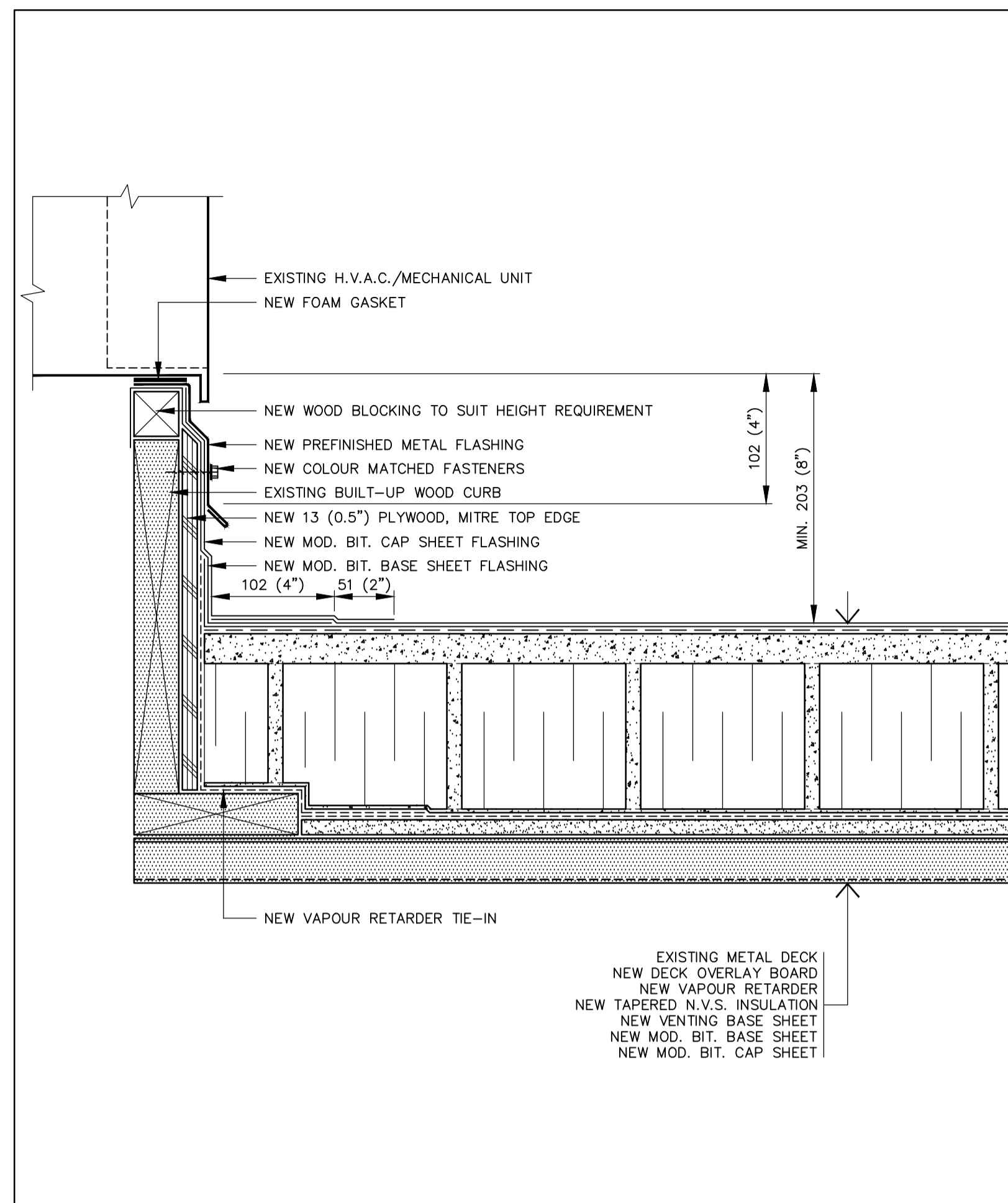
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A4.1 SCALE: 1 : 50



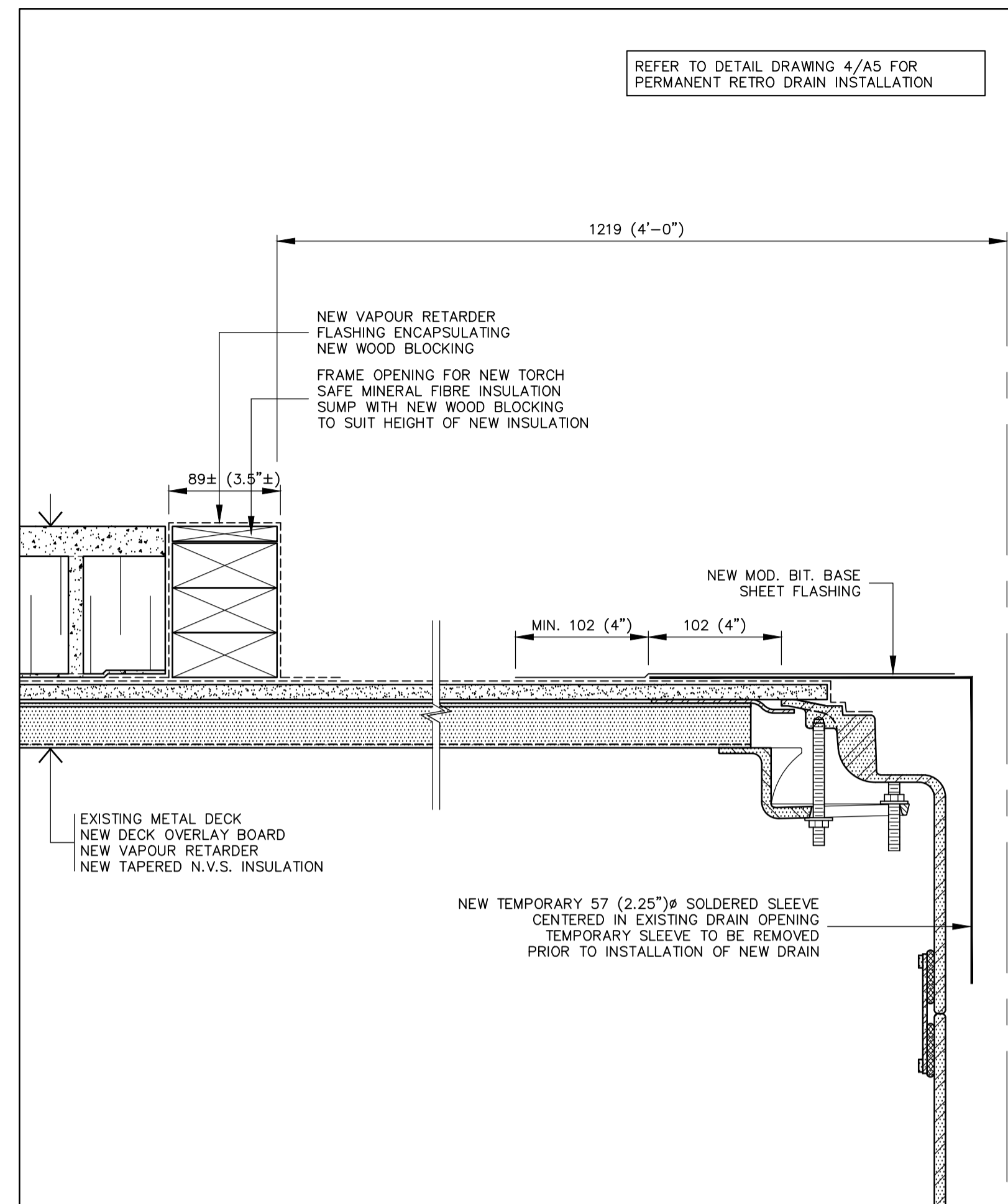
3 KEYPLAN
A4.1 SCALE: N.T.S.



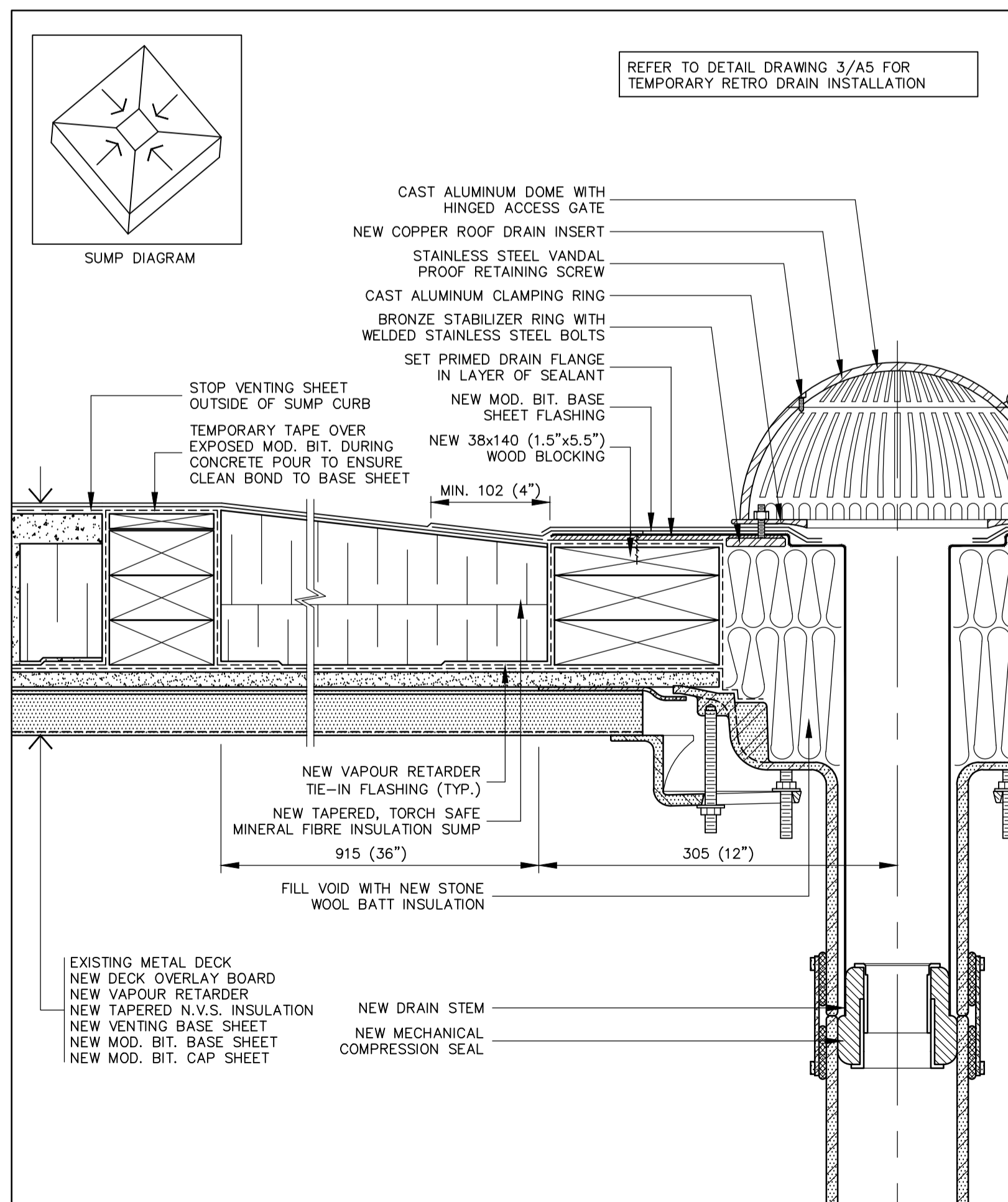
1
A5
SCALE: 1:4



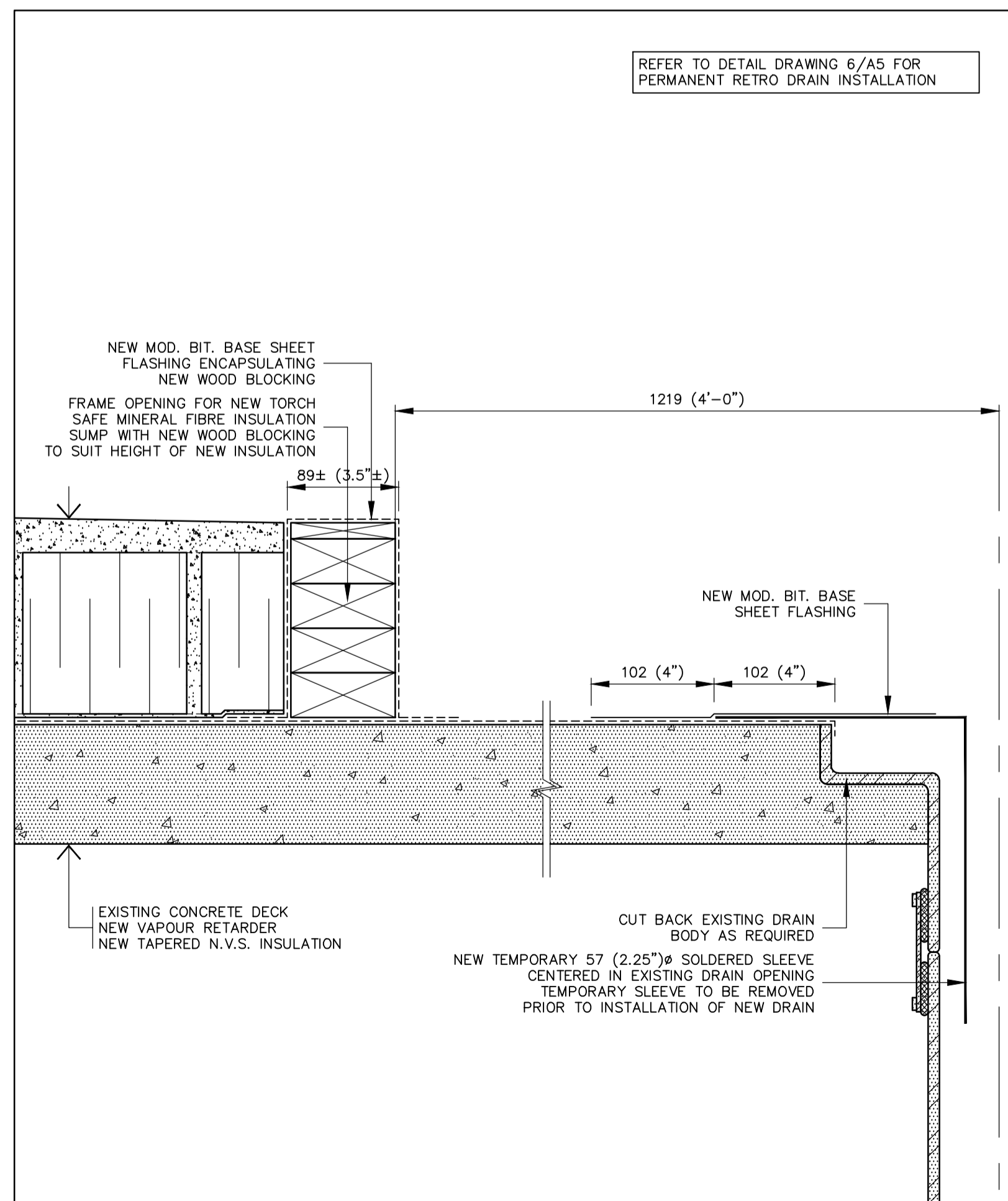
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A5
SCALE: 1:4



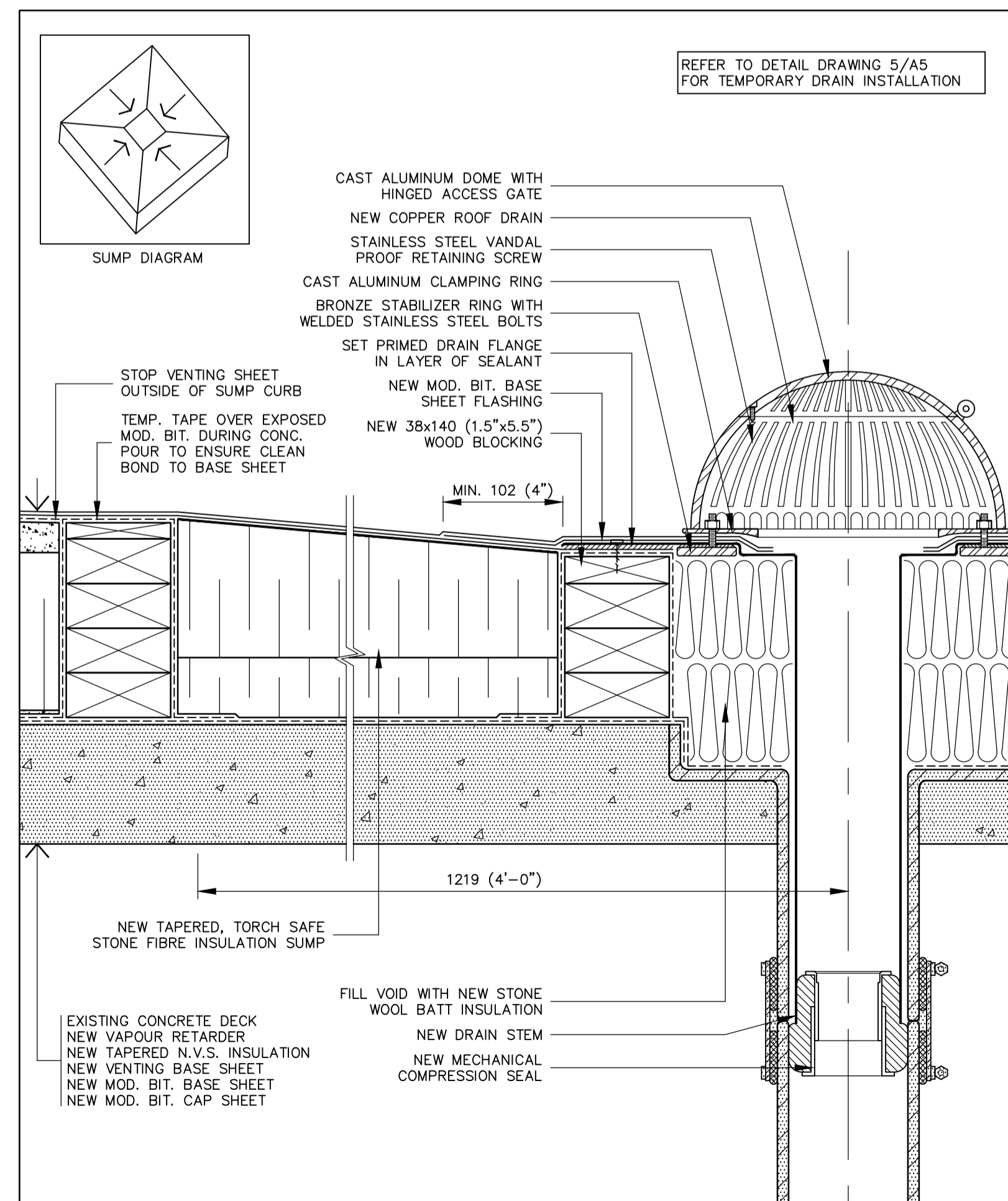
3
A5
SCALE: 1:4



4
A5
SCALE: 1:4



5
A5
SCALE: 1:4



6
A5
SCALE: 1:4

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C	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
conc par
IRC GROUP: A.J.D.

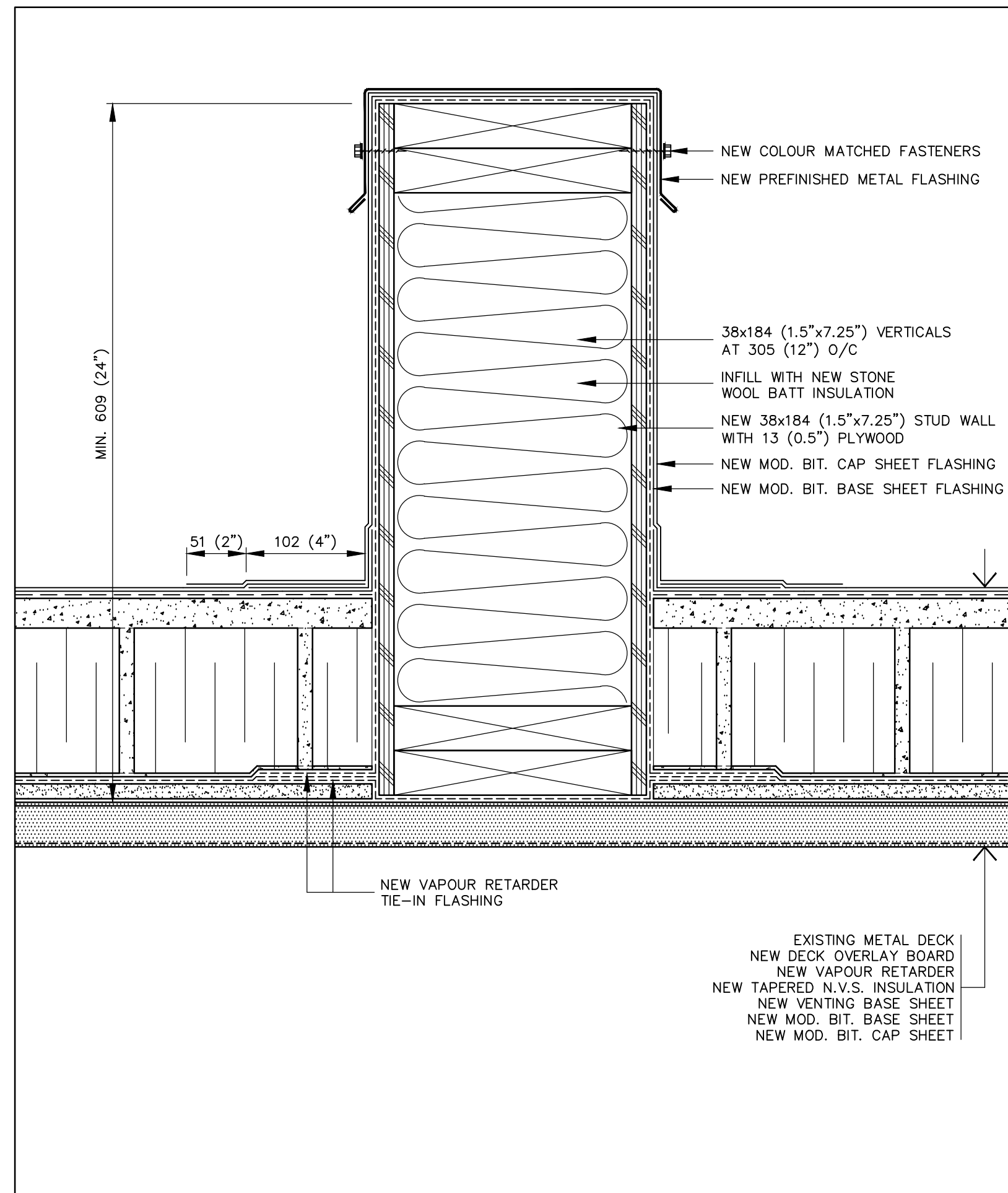
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A. project manager
administrateur
de projets

project date
date du projet
2017-03-07

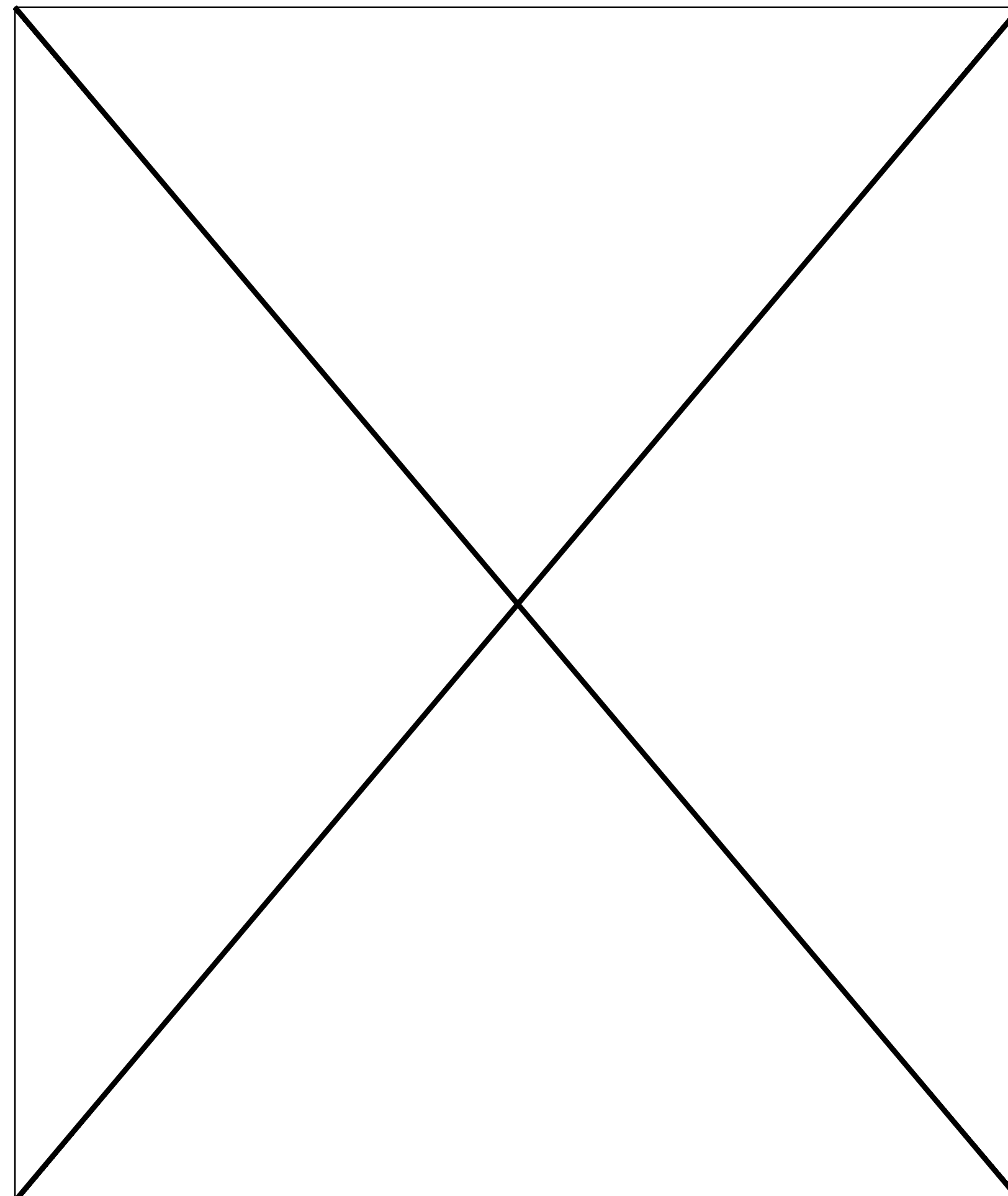
project no.
no. du projet
R.074360.001

drawing no.
dessiné no.
A5



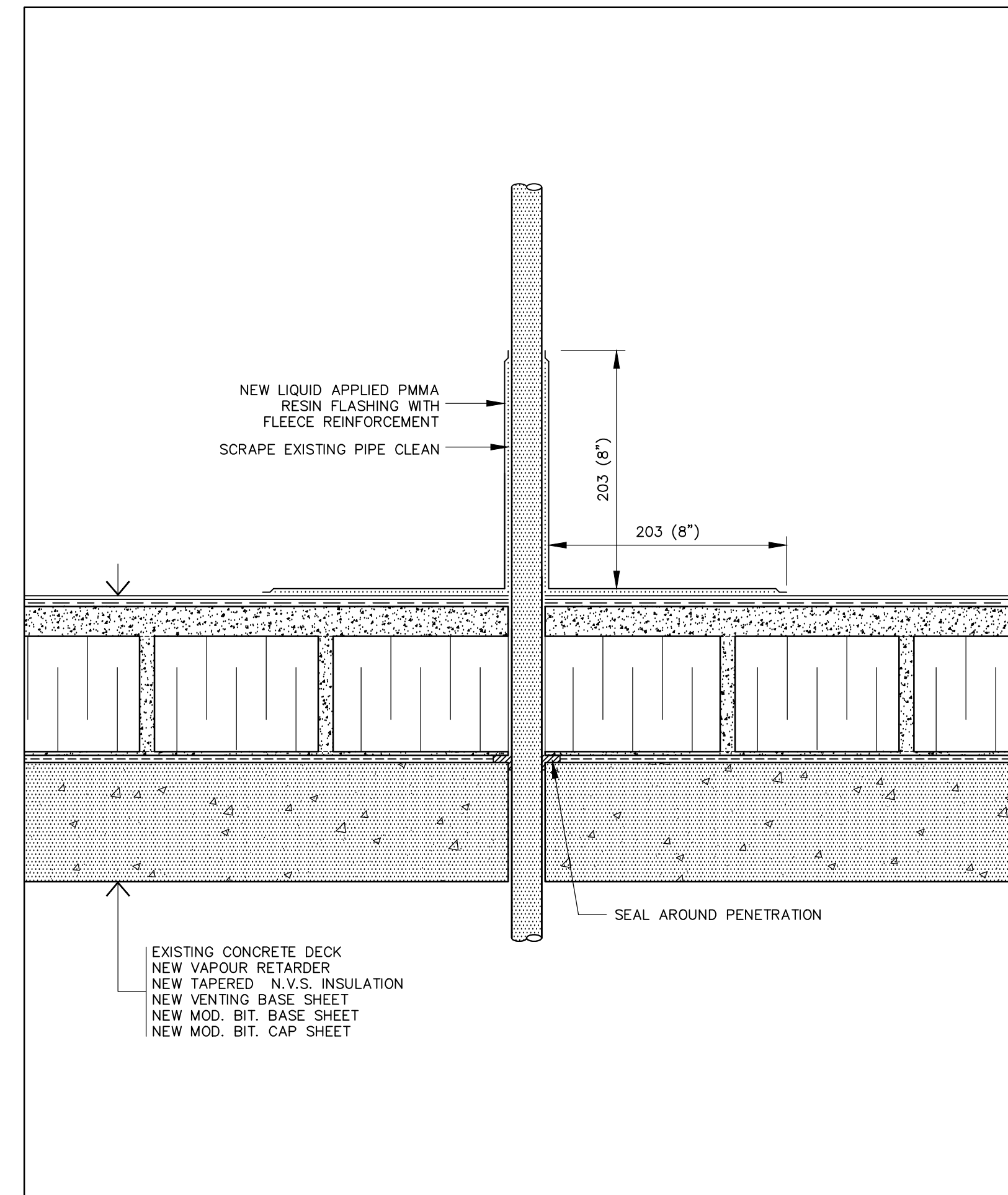
7 NEW SLEEPER FLASHING DETAIL
A6 SCALE: 1:4

0 0.05m 0.1m 0.2m



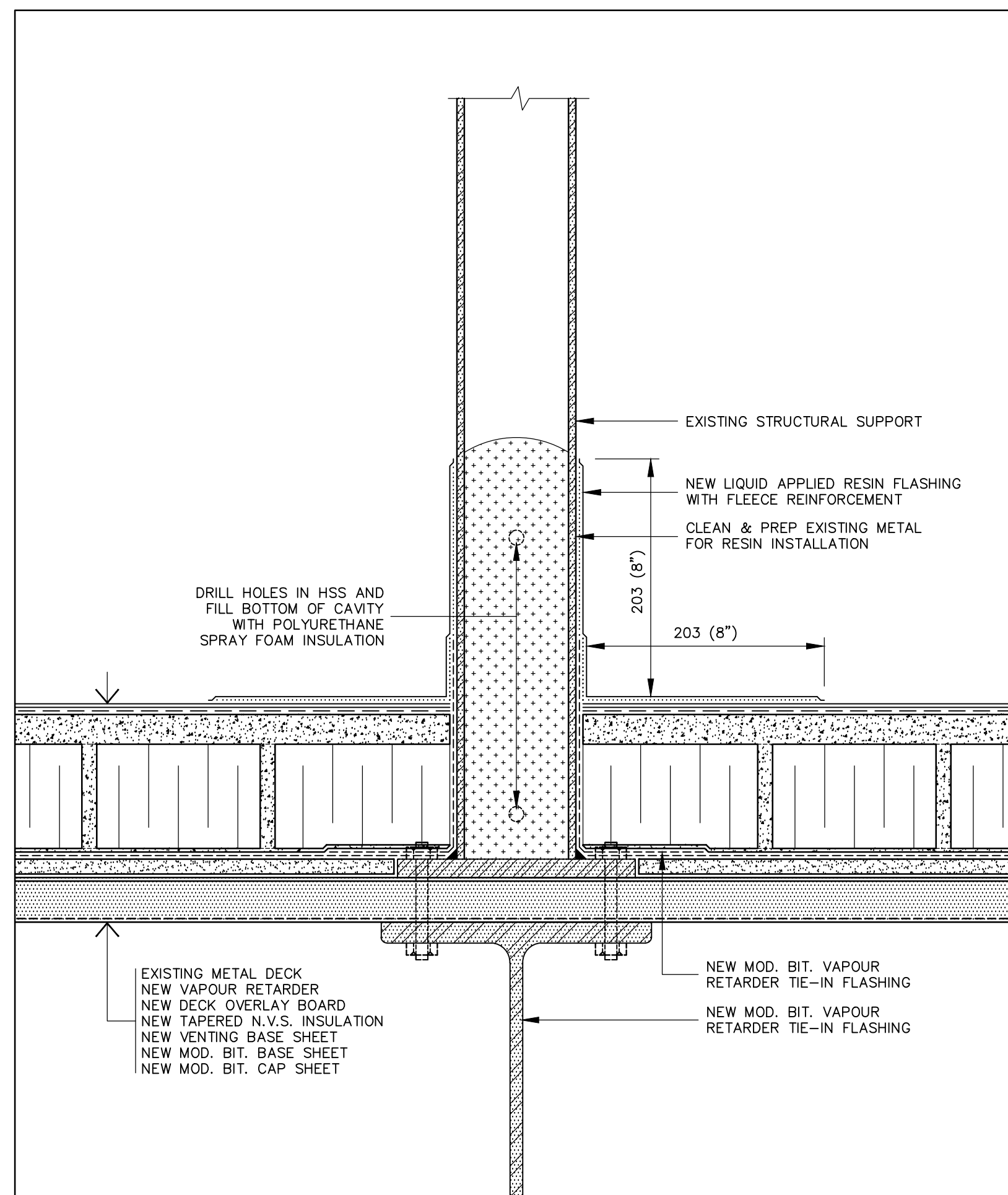
8 UNUSED
A6

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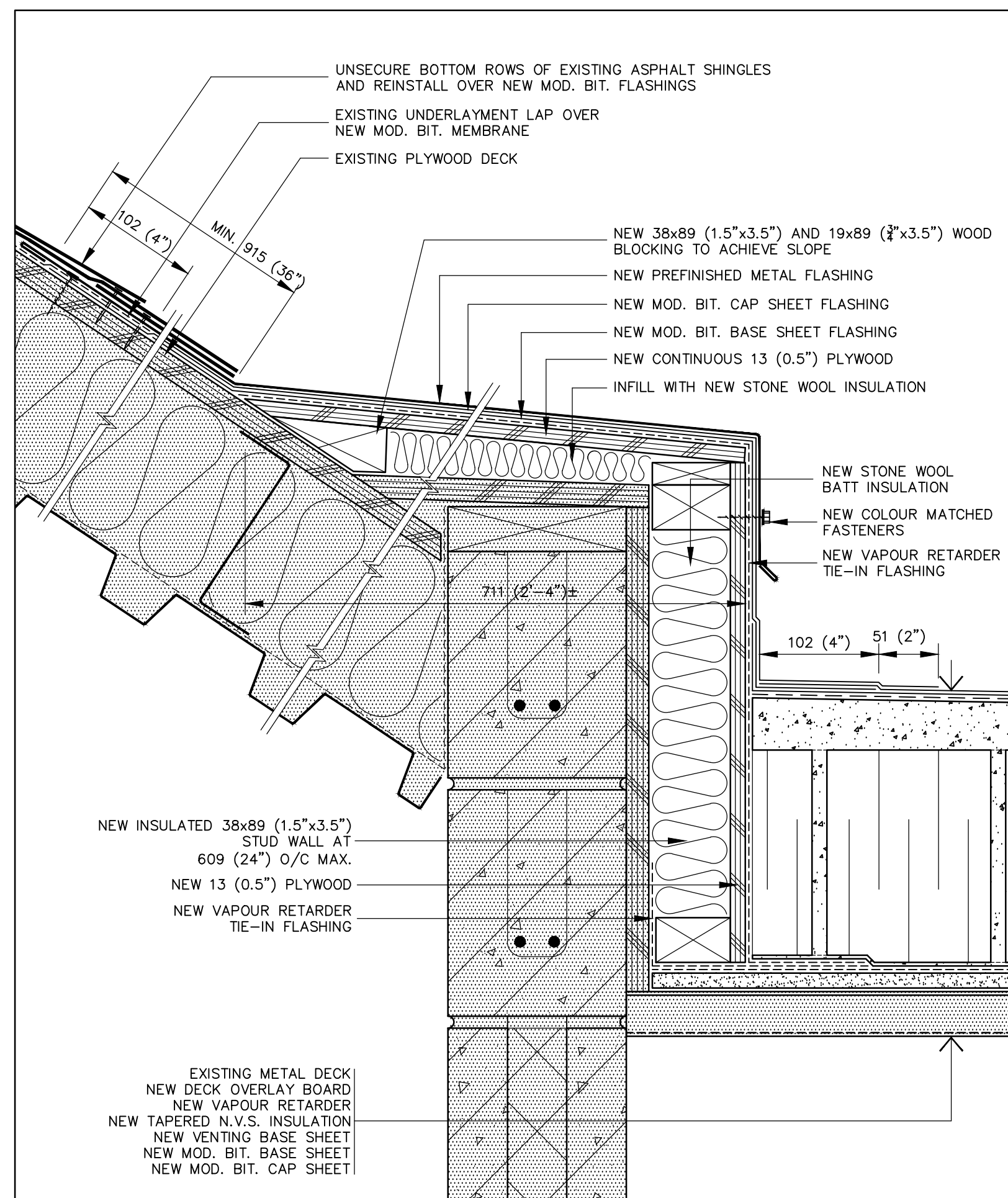
9 PIPE PENETRATION FLASHING DETAIL
A6 SCALE: 1:4

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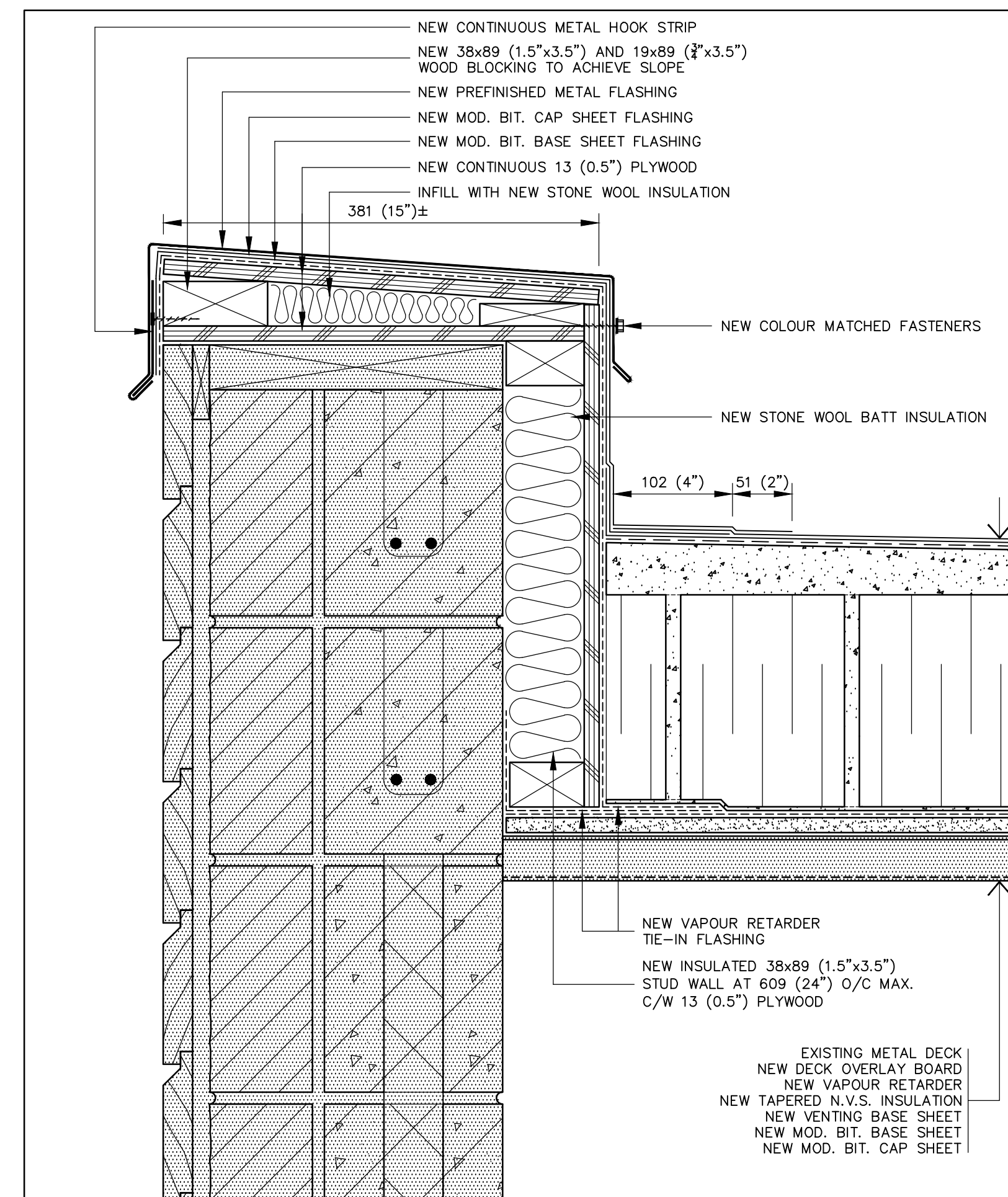
10 EXISTING HSS SUPPORT FLASHING DETAIL
A6 SCALE: 1:4

0 0.05m 0.1m 0.2m



11 PERIMETER TRANSITION DETAIL
A6 SCALE: 1:4

0 0.05m 0.1m 0.2m



12 PARAPET FLASHING DETAIL
A6 SCALE: 1:4

0 0.05m 0.1m 0.2m

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titre du projet
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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.**

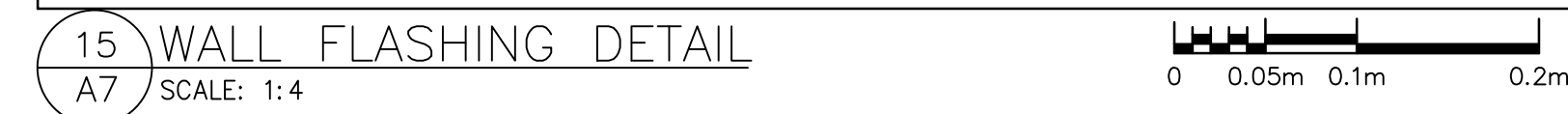
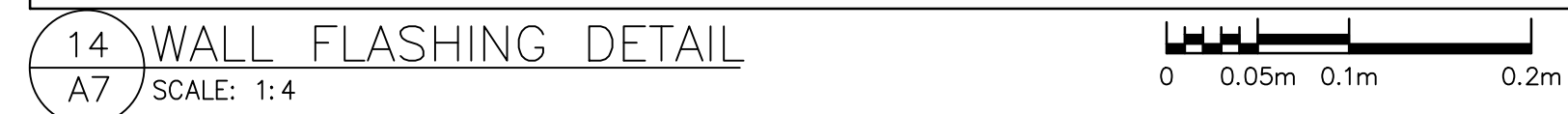
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approuvé par **IRC GROUP: T.K.C.**

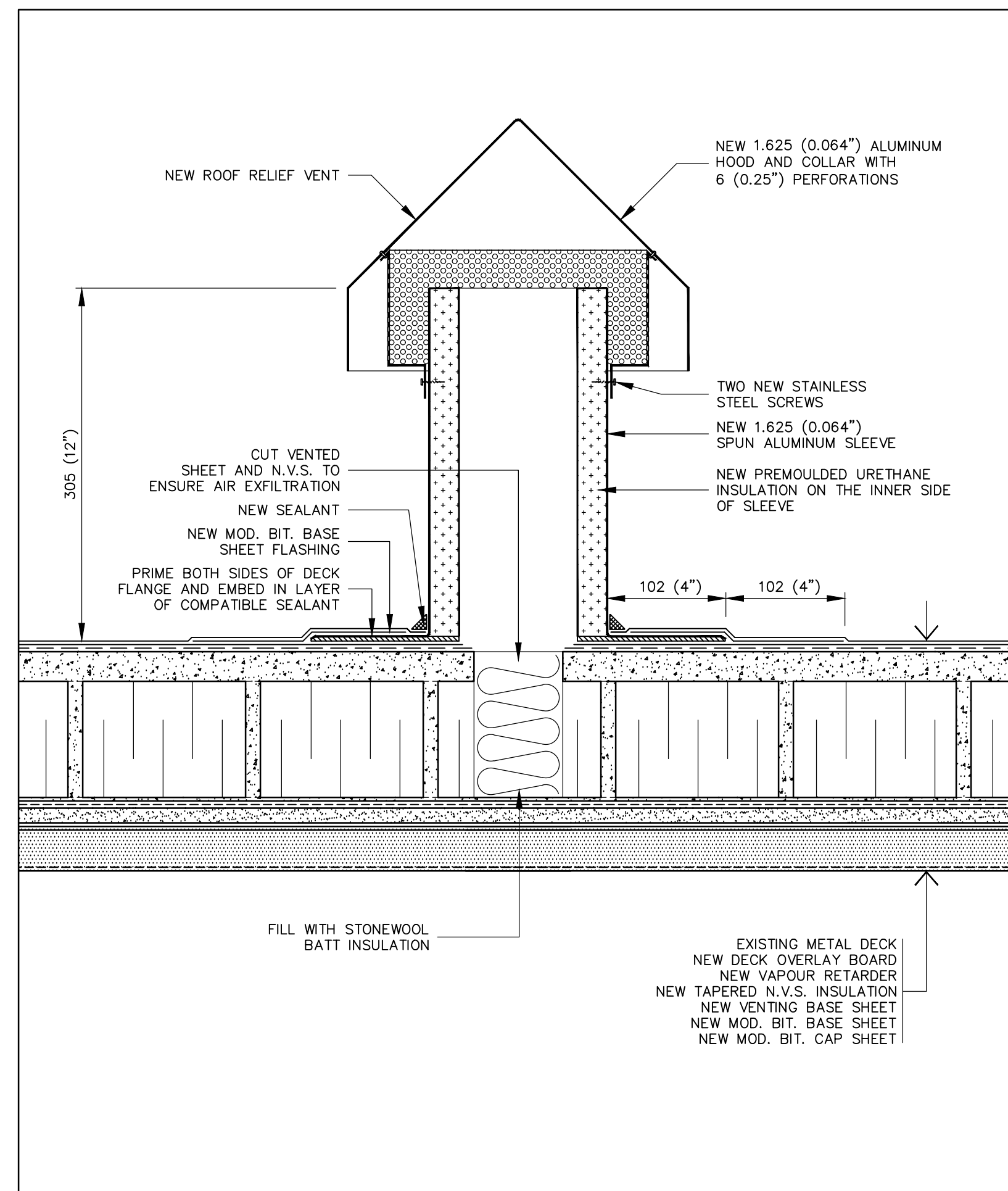
bid
offre **D.A.** project manager
administrateur de projets

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

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

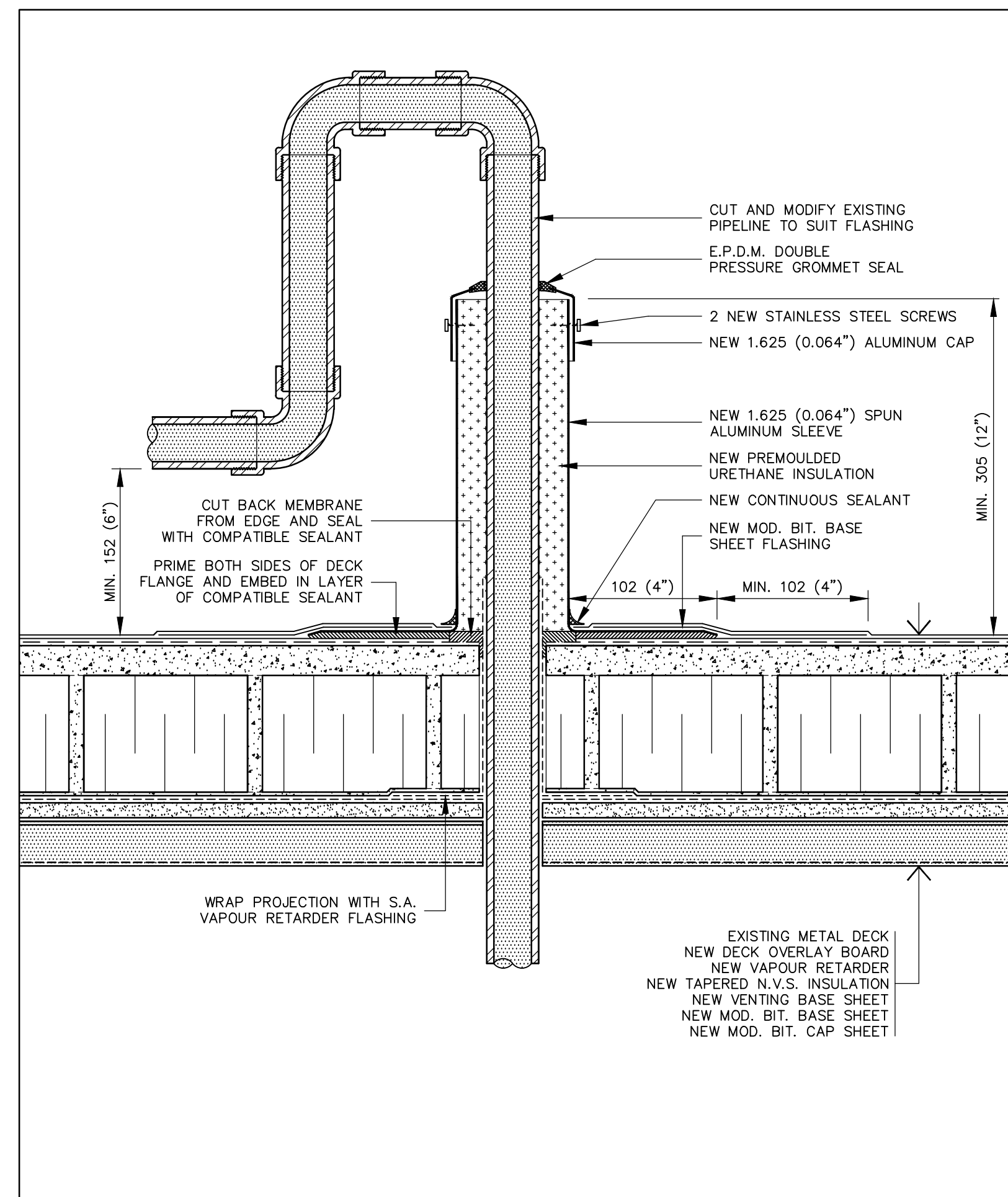
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dessiné no. **A6**





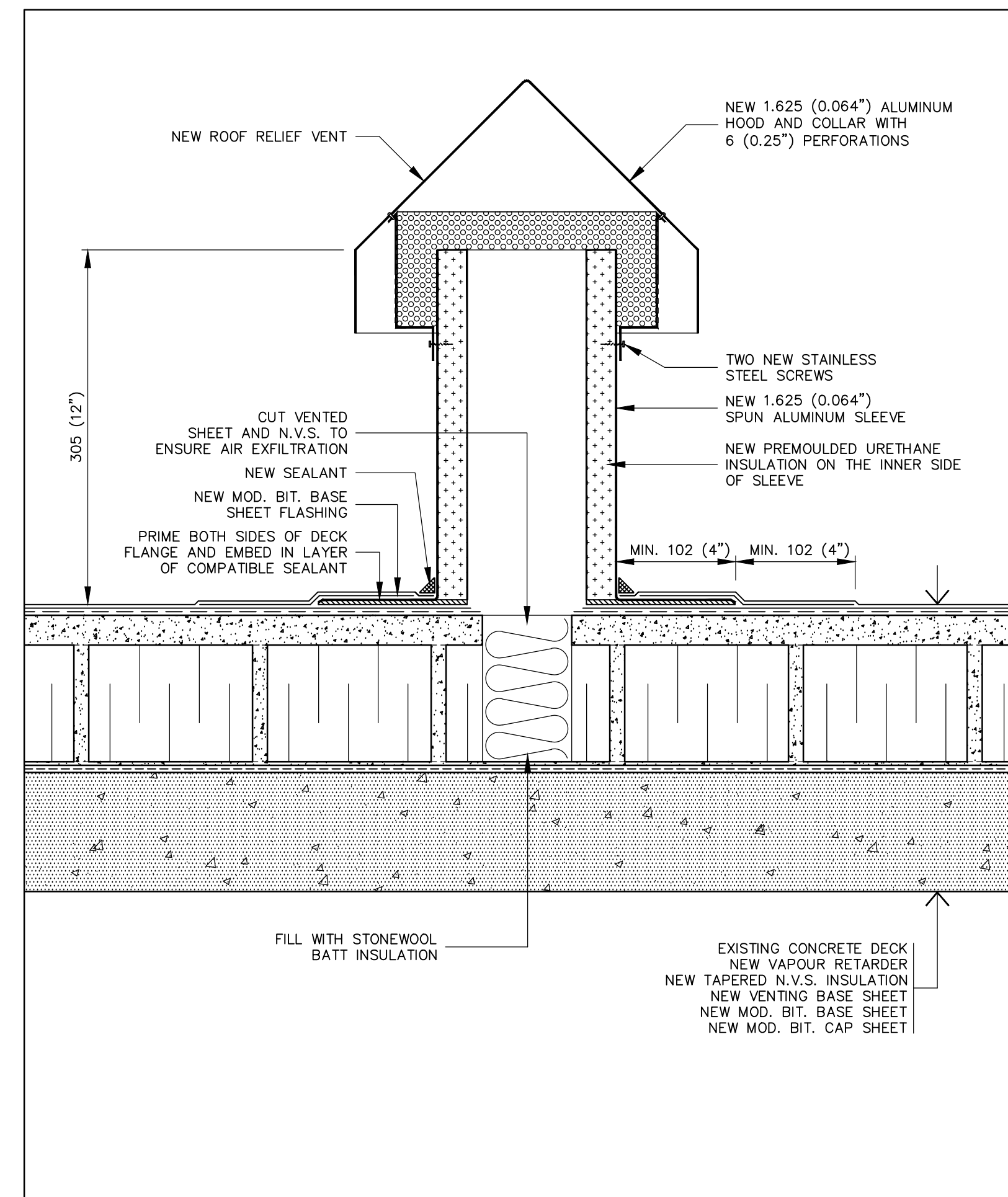
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A8 SCALE: 1:4

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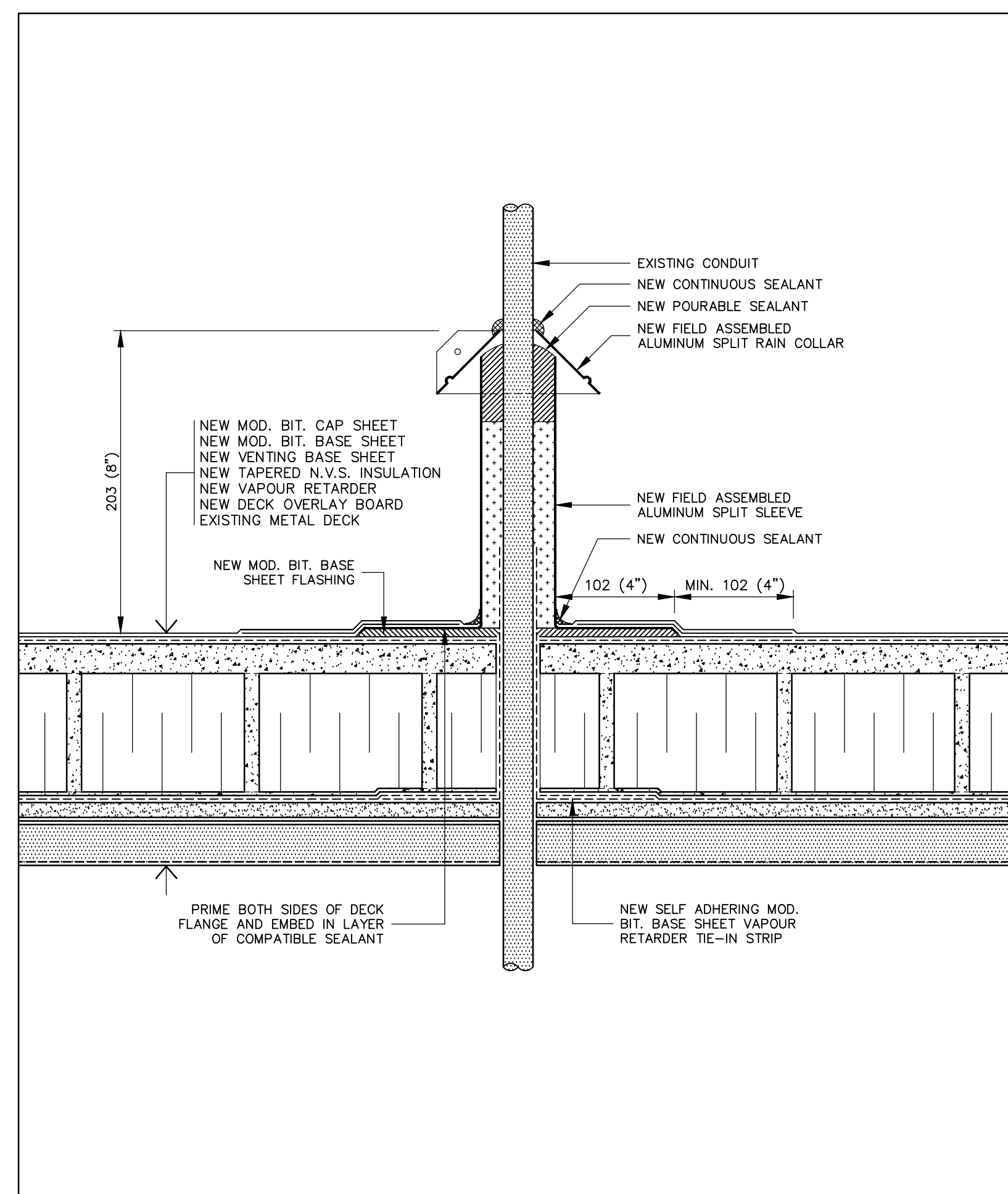
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A8 SCALE: 1:4

0 0.05m 0.1m 0.2m



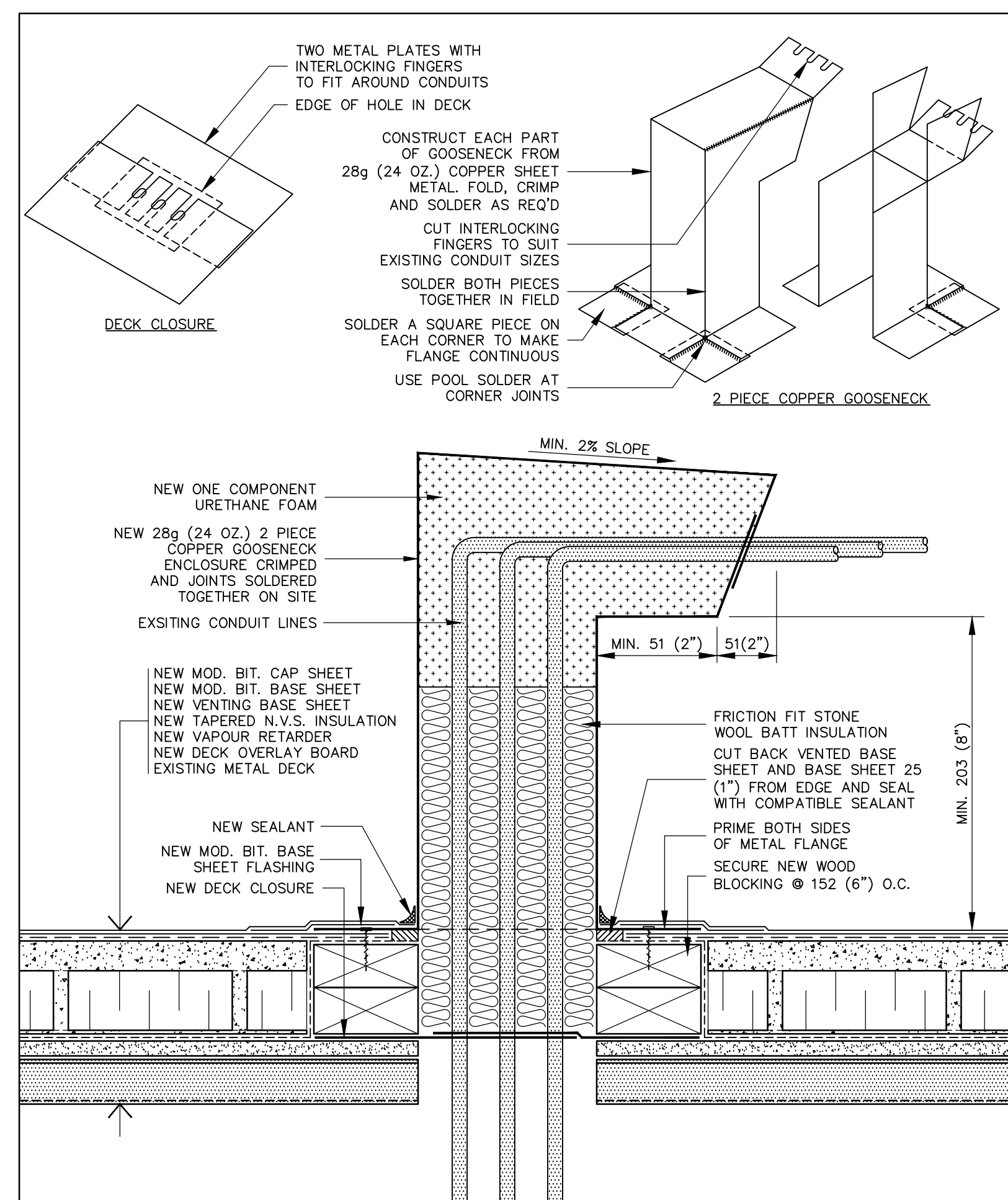
21 RELIEF VENT DETAIL
A8 SCALE: 1:4

0 0.05m 0.1m 0.2m



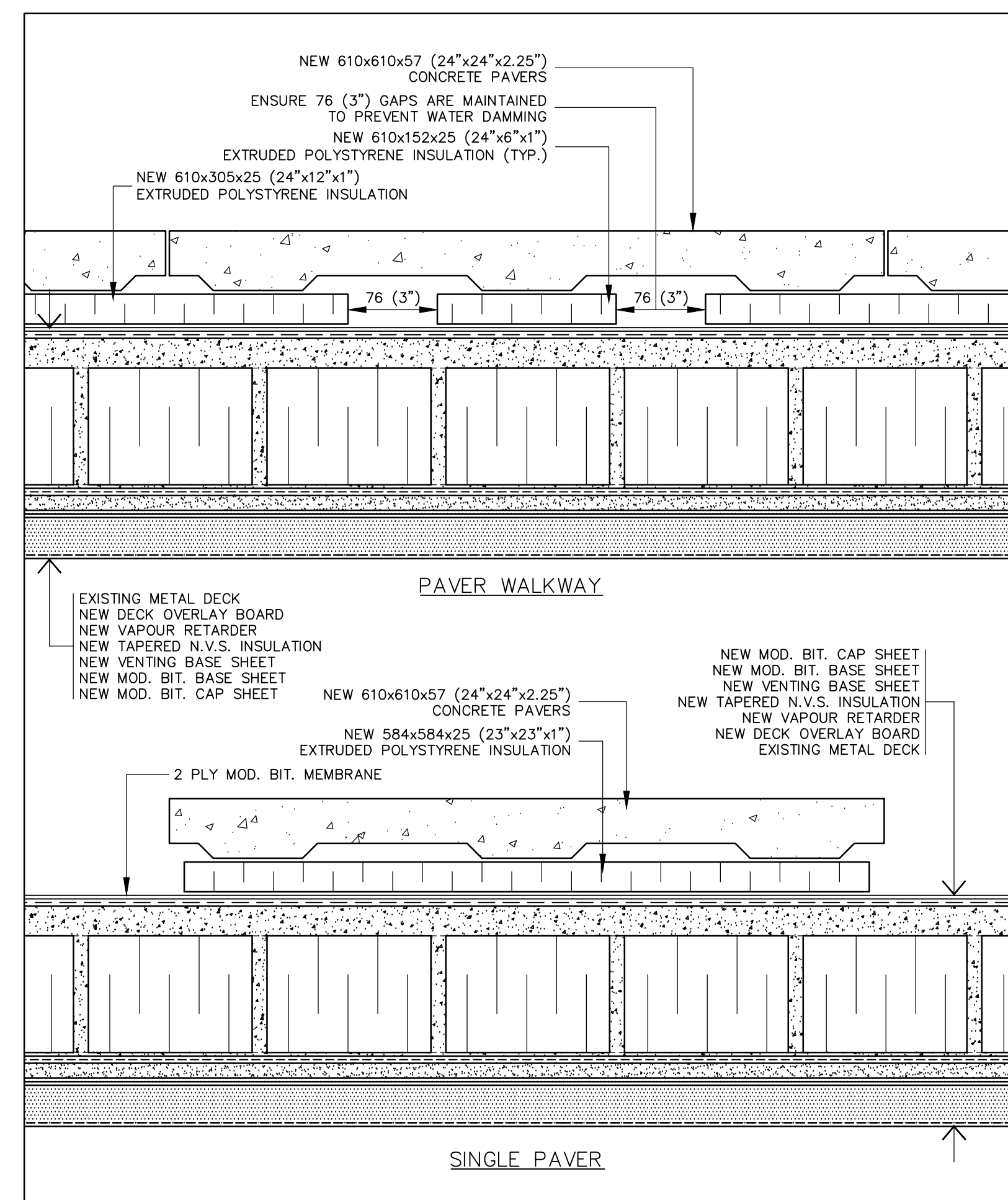
22 MISC. CONDUIT DETAIL
A8 SCALE: 1:4

0 0.05m 0.1m 0.2m



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

0 0.05m 0.1m 0.2m



24 WALKWAY/PAVER DETAIL
A8 SCALE: 1:4

0 0.05m 0.1m 0.2m

04		
03		
02		
01	ISSUED FOR BID	2017-03-07
revision		date

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

A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
	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
conc par
IRC GROUP: A.J.D.

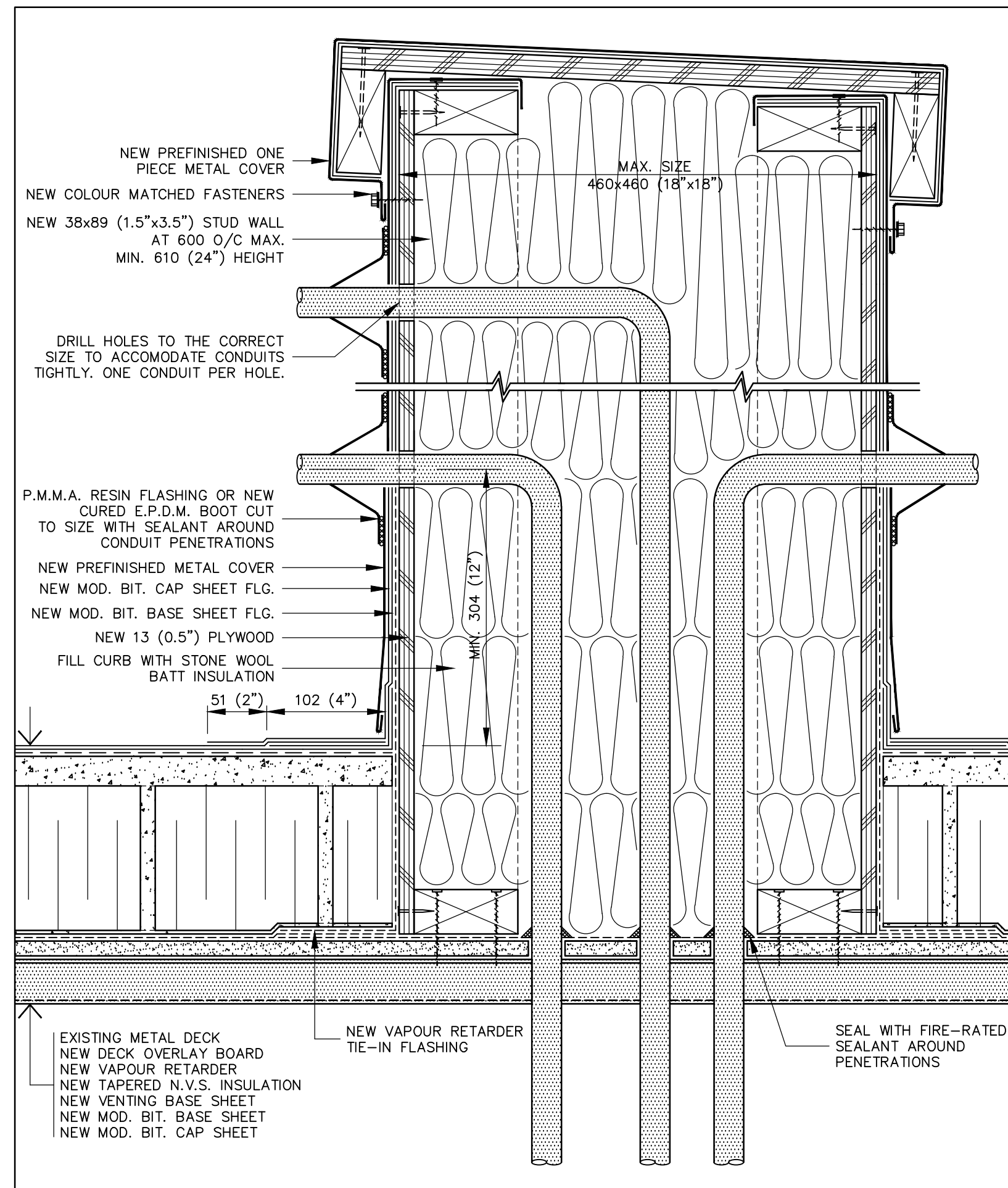
approved by
approuvé par
IRC GROUP: T.K.C.

bid
offre
D.A. project manager
administrateur
de projets

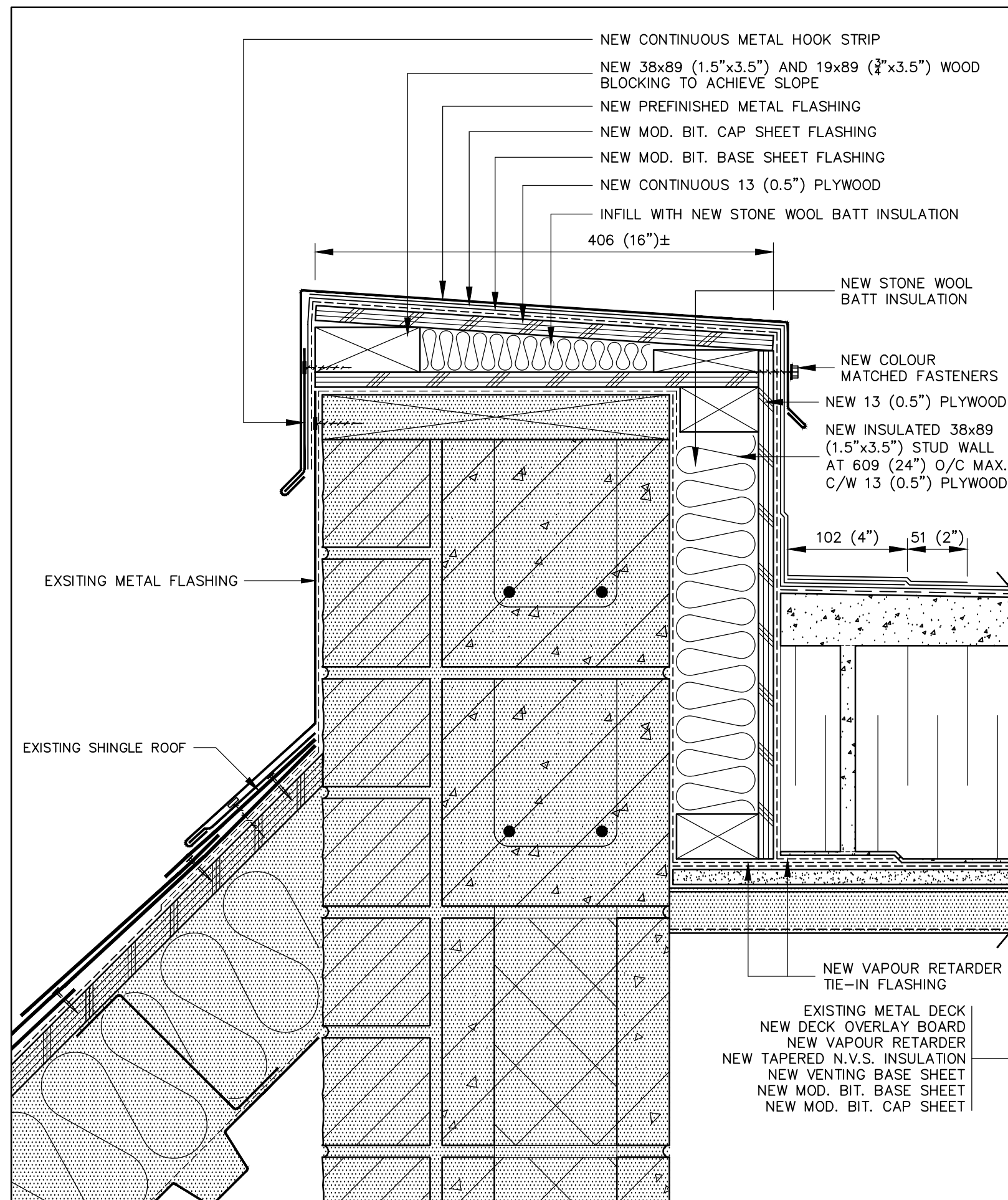
project date
date du projet
2017-03-07

project no.
no. du projet
R.074360.001

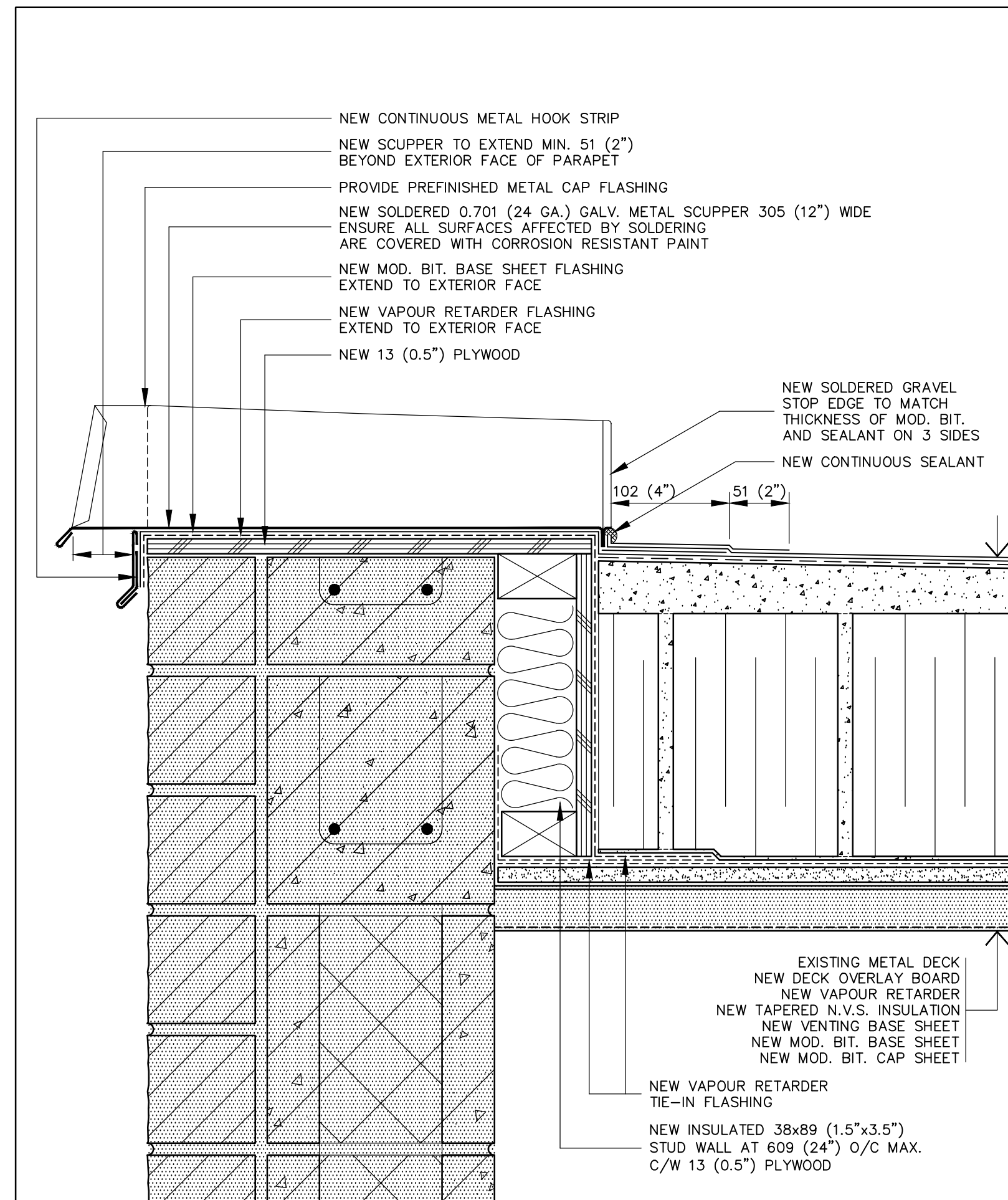
drawing no.
dessiné no.
A8



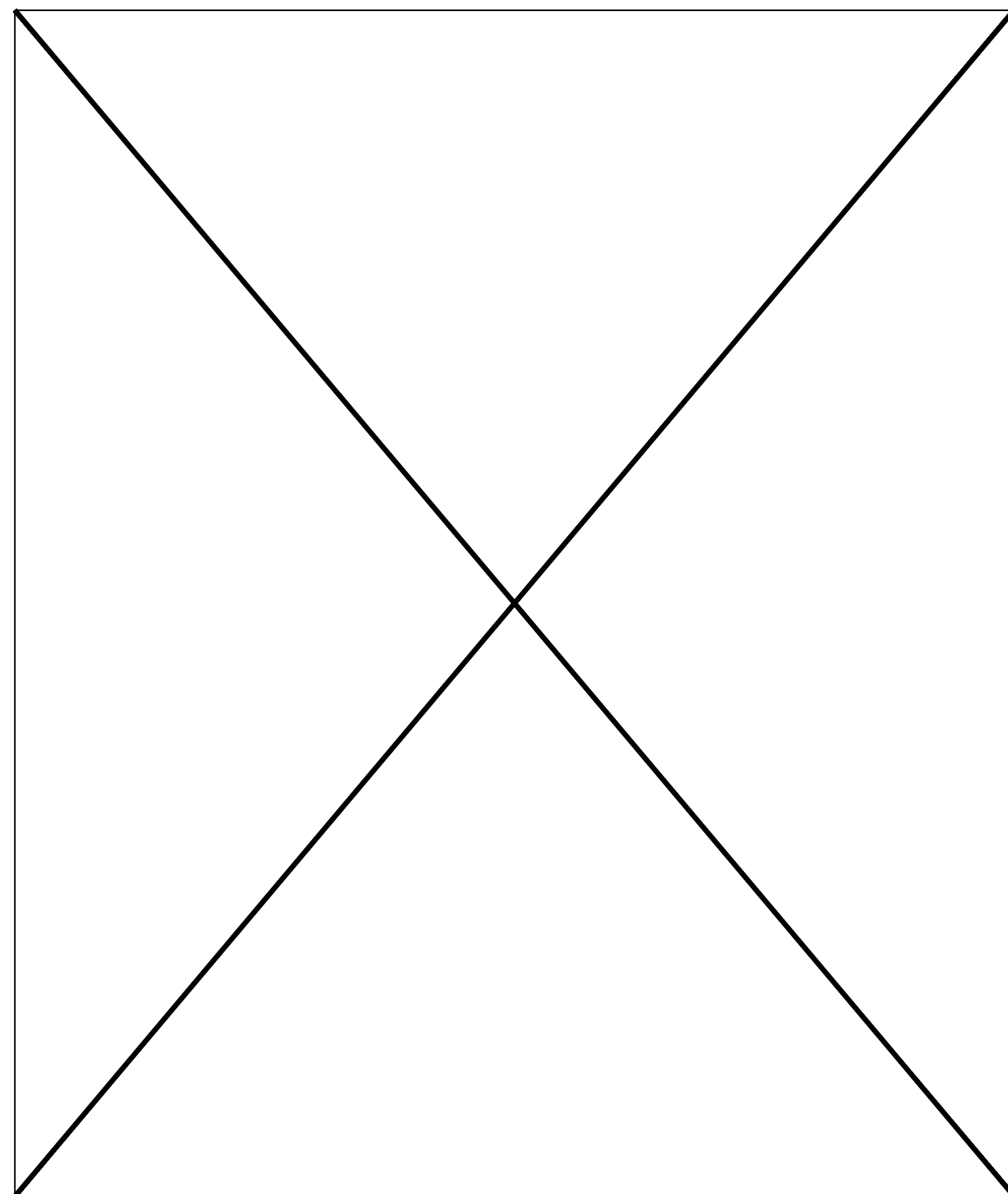
25 DOGHOUSE DETAIL
A9 SCALE: 1:4



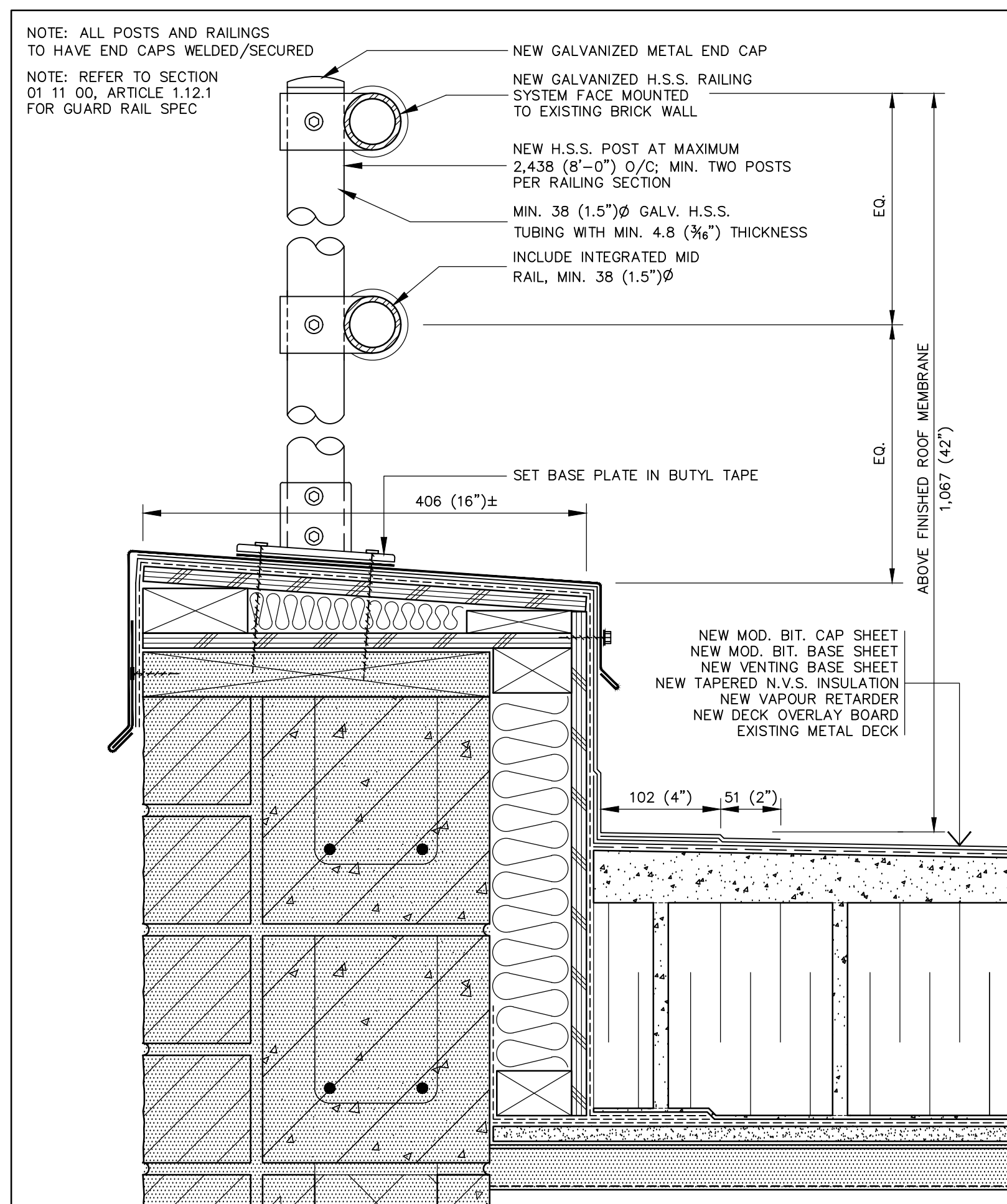
26 PERIMETER DETAIL AT SHINGLE ROOF
A9 SCALE: 1:4



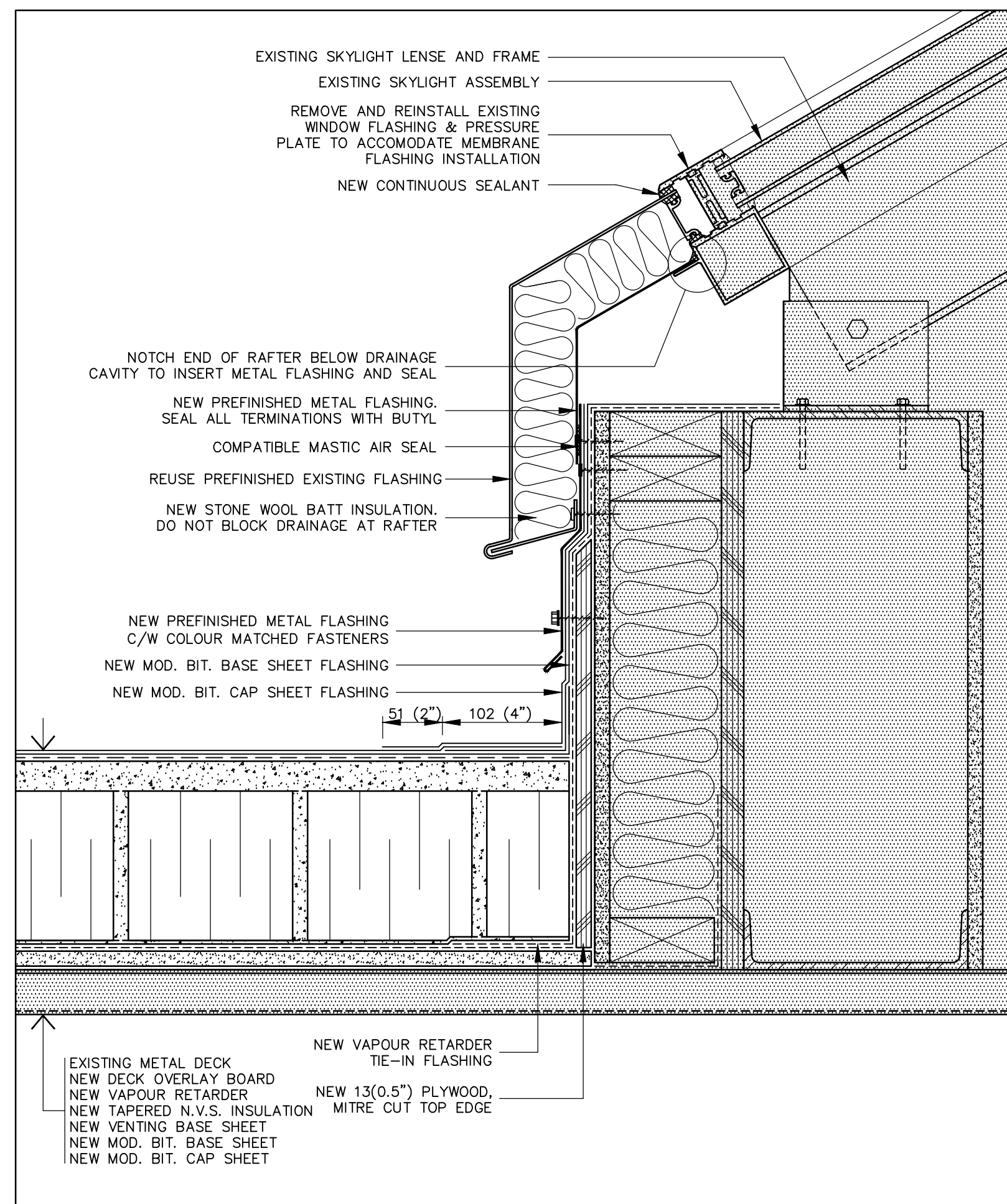
27 OVERFLOW SCUPPER DETAIL
A9 SCALE: 1:4



28 UNUSED
A9



29 MOUNTED GUARD RAIL
A9 SCALE: 1:4



30 SKYLIGHT CURB FLASHING DETAIL
A9 SCALE: 1:4

04		
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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. **A9**