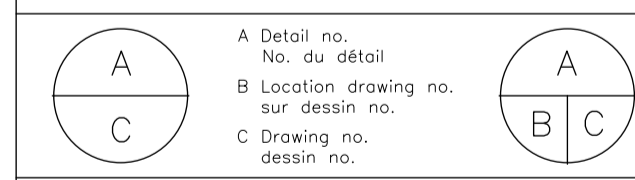


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- PROVIDE OVERHEAD PROTECTION AT ALL DOORS.



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o Verify all dimensions and site conditions and be responsible for same  
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project: **ROOF OVERLAY 2019 BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8 1920 RESEARCH PRIVATE, OTTAWA ON**

NATIONAL RESEARCH COUNCIL

drawing: **ROOF PLAN**

designed: **John Callender** conçu: **John Callender** date: **2019-02-11** date

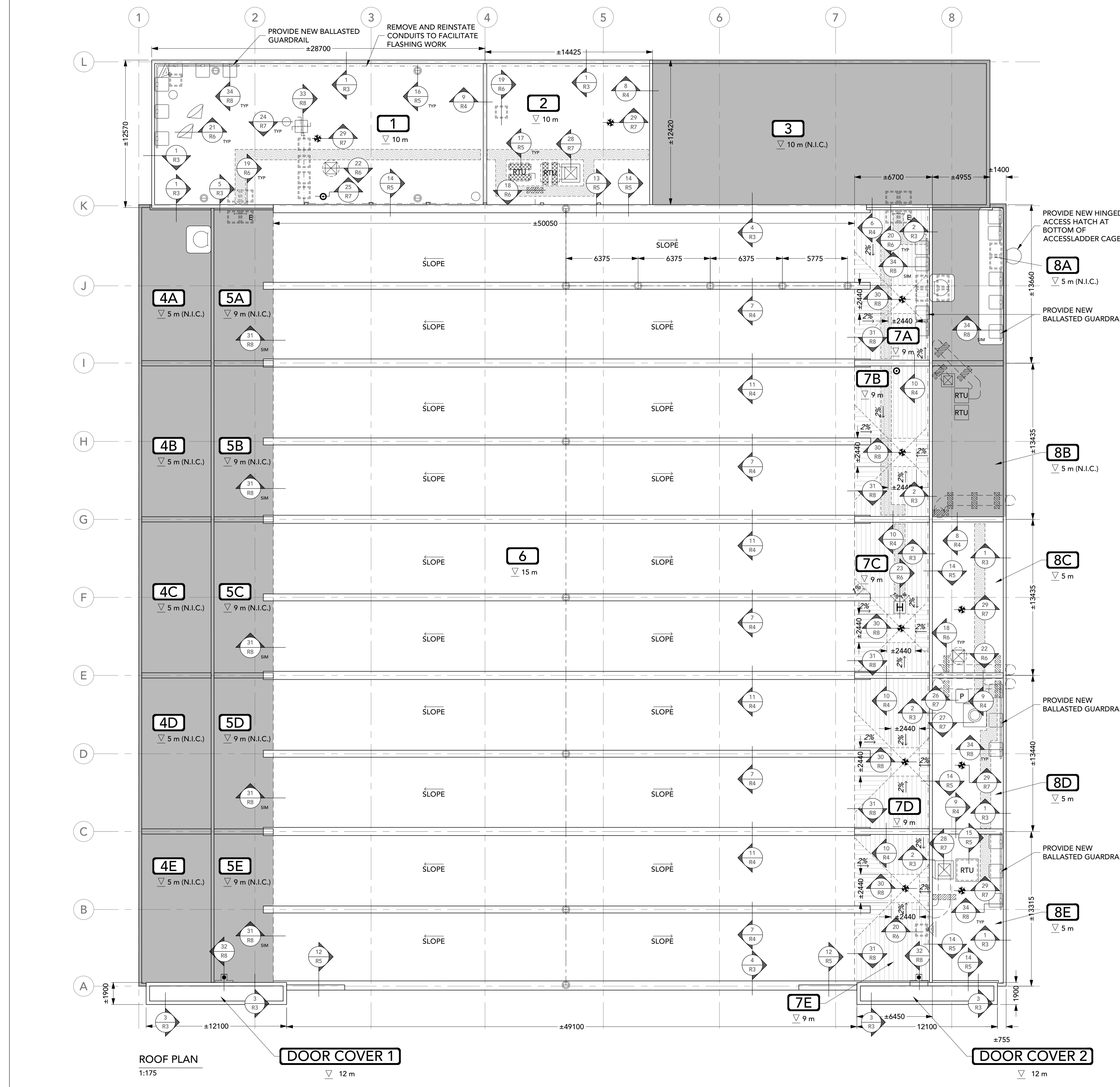
drawn: **Roel Parker** dessiné: **Roel Parker** scale: **1/75** échelle

checked: **John Callender** vérifié: **John Callender** sheet: **1** of/de: **12** feuille

approved: **John Callender** approuvé: **John Callender** W.O.no. D.T.no.

dwg.no. **5676 - R1** dessin no.

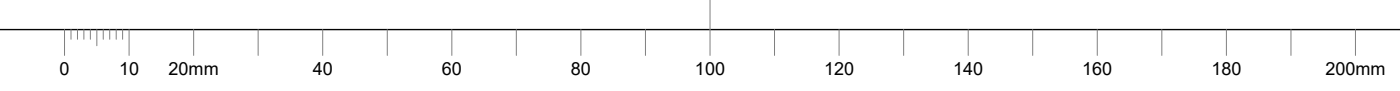
LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	ANTENNA
[Symbol]	BELL EXHAUST
[Symbol]	BUILT-IN ROOFTOP UNIT
[Symbol]	BUILT-IN SLEEPER
[Symbol]	CRICKET
[Symbol]	CONCRETE PAVER
[Symbol]	CONDUIT / ELECTRICAL CABLE
[Symbol]	CURBED B-VENT
[Symbol]	EAVESTROUGH / DOWNSPOUT
[Symbol]	EXTENT AND DIRECTION OF SLOPED INSULATION
[Symbol]	CURBED DUCT PENETRATION
[Symbol]	HORIZONTAL LIFE LINE
[Symbol]	LIGHT FIXTURE/CAMERA
[Symbol]	PIPE ENCLOSURE
[Symbol]	PLUMBING VENT
[Symbol]	PROPOSED ROOF ANCHOR
[Symbol]	ROOF DRAIN
[Symbol]	ROOF DRAIN WITH SUMP
[Symbol]	ROOF HATCH
[Symbol]	EXISTING ROOF LADDER
[Symbol]	EXISTING ROOF LADDER WITH CAGE
[Symbol]	ROOF LADDER
[Symbol]	ROOF LADDER WITH CAGE
[Symbol]	ROOF NUMBER AND ELEVATION
[Symbol]	ROOF PENETRATION
[Symbol]	SATELLITE DISH
[Symbol]	STRUCTURAL SLOPE
[Symbol]	SUSPENDED ROOFTOP UNIT
[Symbol]	SUSPENDED SLEEPER
[Symbol]	SUSPENDED DUCTWORK
[Symbol]	WALKWAY MEMBRANE
[Symbol]	BALLASTED GUARDRAIL



ROOF PLAN  
1:175

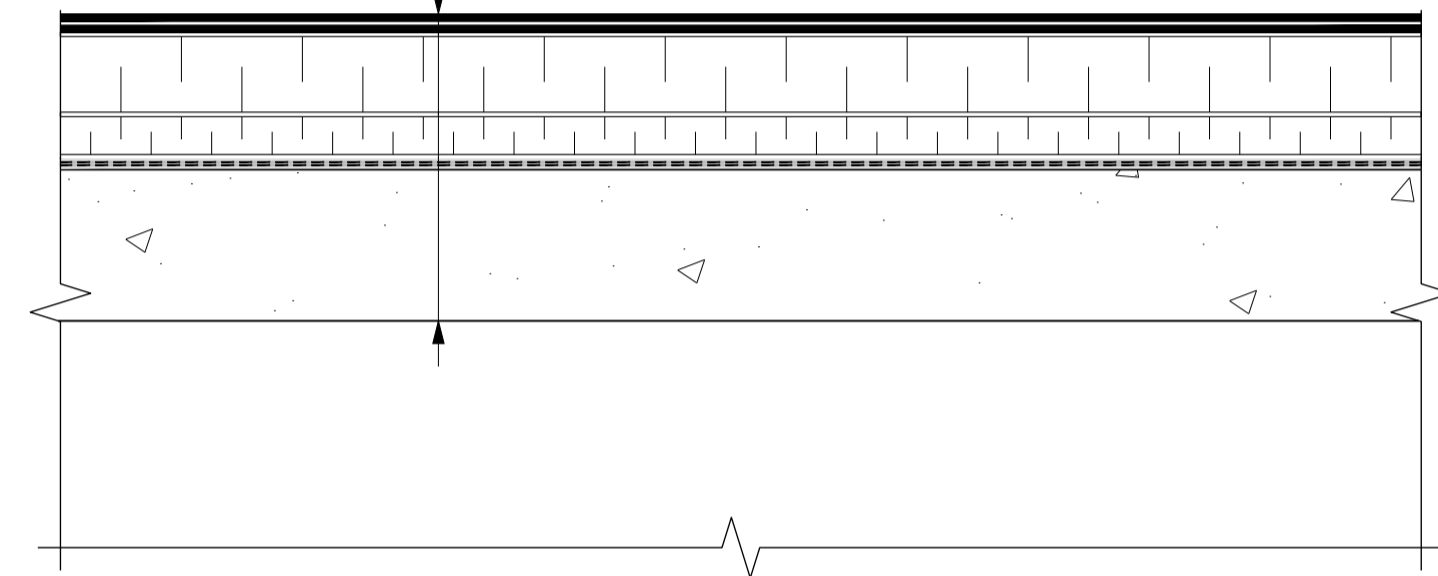
DOOR COVER 1  
12 m

DOOR COVER 2  
12 m



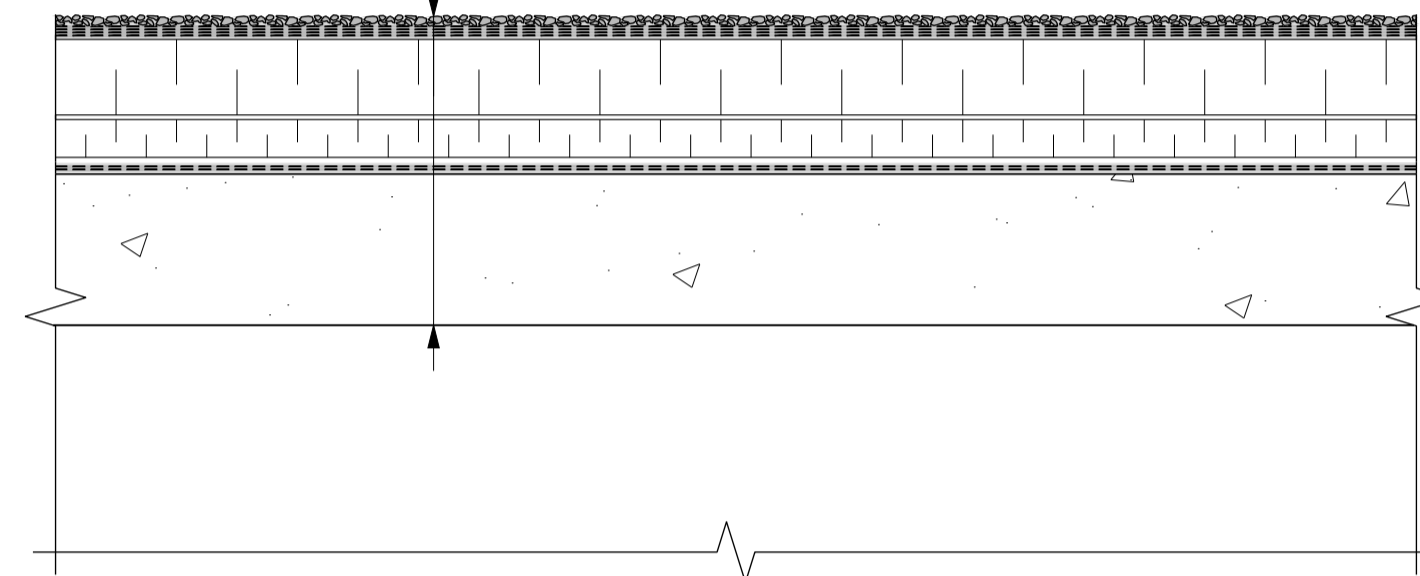
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5. PROVIDE OVERHEAD PROTECTION AT ALL DOORS.

EXISTING ROOF SYSTEM E1:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - 50 mm FIBREGLASS INSULATION  
 - SLOPED FIBREGLASS INSULATION  
 - 2-PLY BUR AIR/VAPOUR BARRIER MEMBRANE  
 - CONCRETE DECK



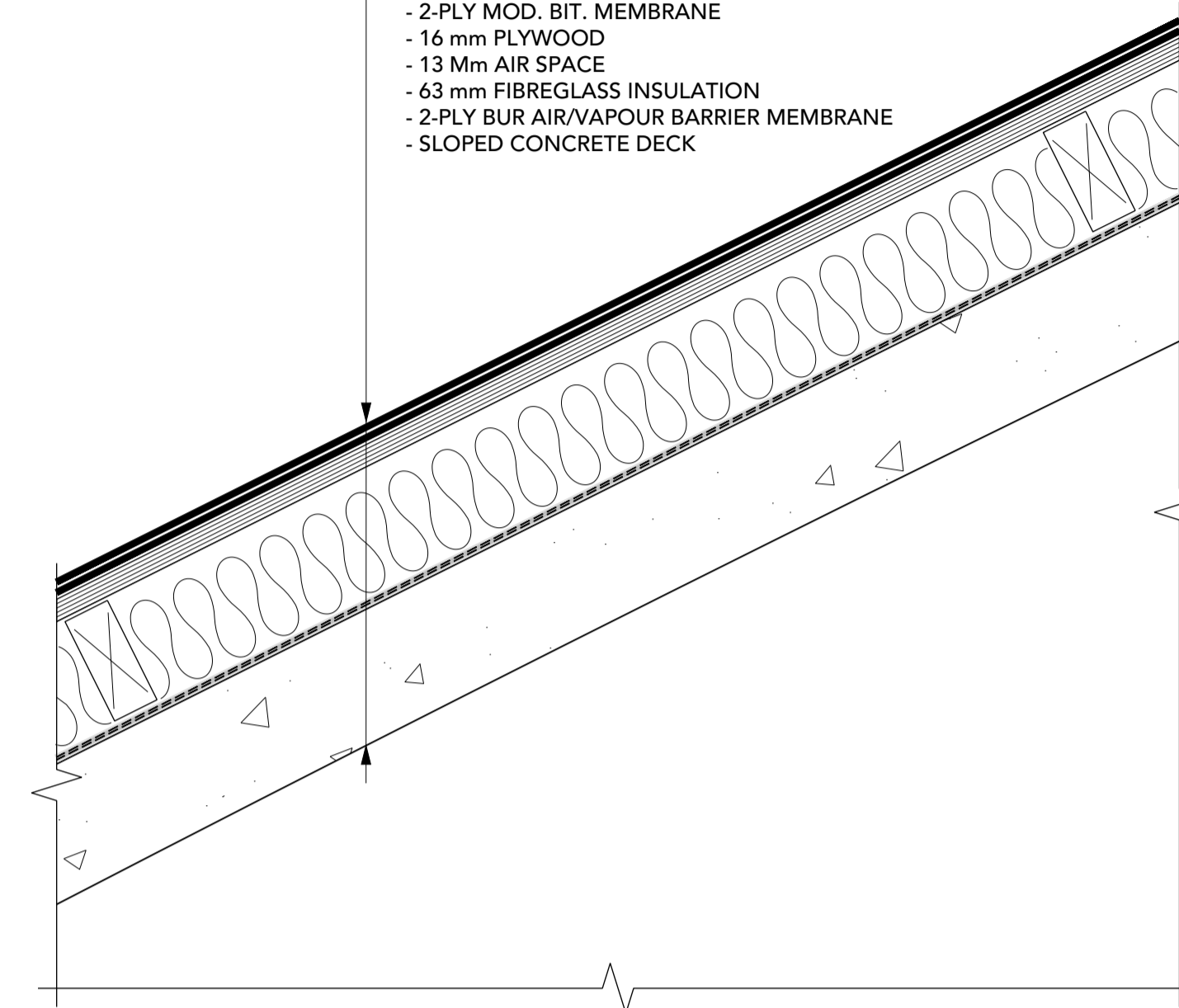
**E1** EXISTING ROOF SYSTEM E1  
 R2 1:5 ROOF AREAS 1, 2, 7-A, 7-B, 7-C, 7-D, 7-E, 8-C, 8-D & 8-E

EXISTING ROOF SYSTEM E2:  
 - 4-PLY BUR MEMBRANE WITH GRAVEL  
 - 50 mm FIBREGLASS INSULATION  
 - SLOPED FIBREGLASS INSULATION  
 - 2-PLY BUR VAPOUR BARRIER  
 - CONCRETE DECK



**E2** EXISTING ROOF SYSTEM E2  
 R2 1:5 ROOF AREAS - DOOR COVER 1 & DOORCOVER 2

EXISTING ROOF SYSTEM E3:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - 16 mm PLYWOOD  
 - 13 mm AIR SPACE  
 - 63 mm FIBREGLASS INSULATION  
 - 2-PLY BUR AIR/VAPOUR BARRIER MEMBRANE  
 - SLOPED CONCRETE DECK



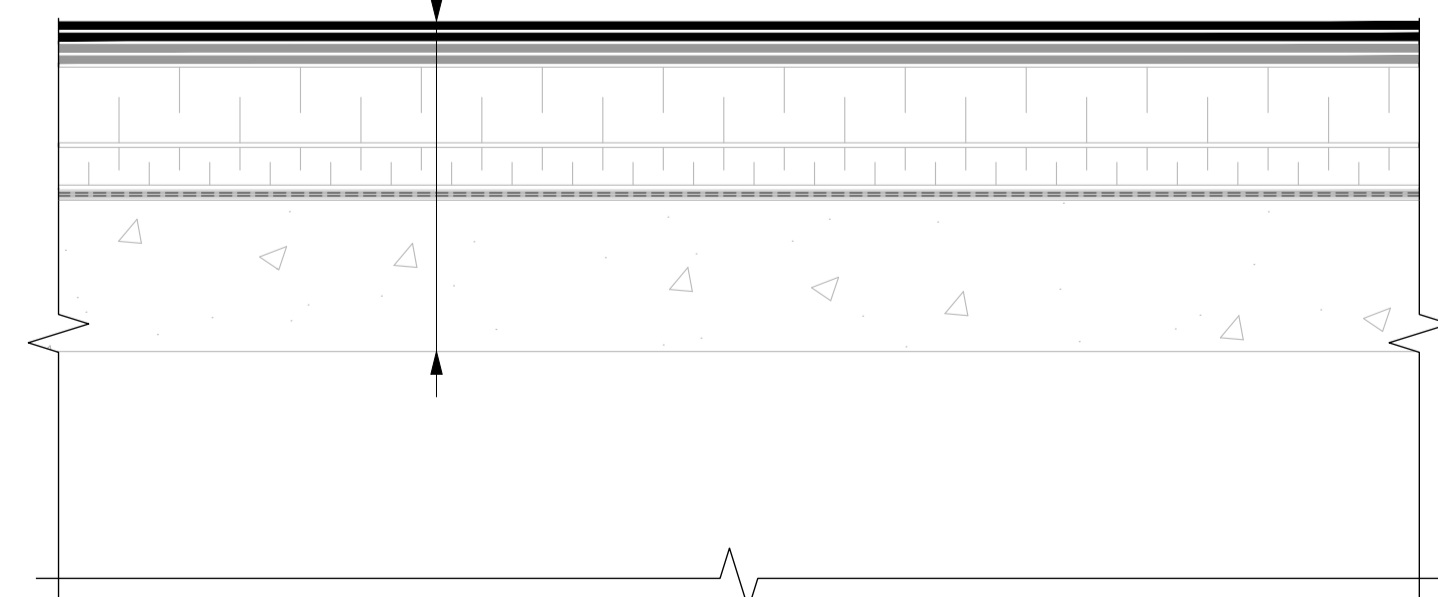
**E3** EXISTING ROOF SYSTEM E3  
 R2 1:5 ROOF AREA 6

NOTE:  
 EXISTING MEMBRANE TO BE POWER WASHED, DRIED, BROOMED, AND PRIMED.

NOTE:  
 EXISTING MEMBRANE TO BE POWER WASHED, DRIED, BROOMED, AND PRIMED.

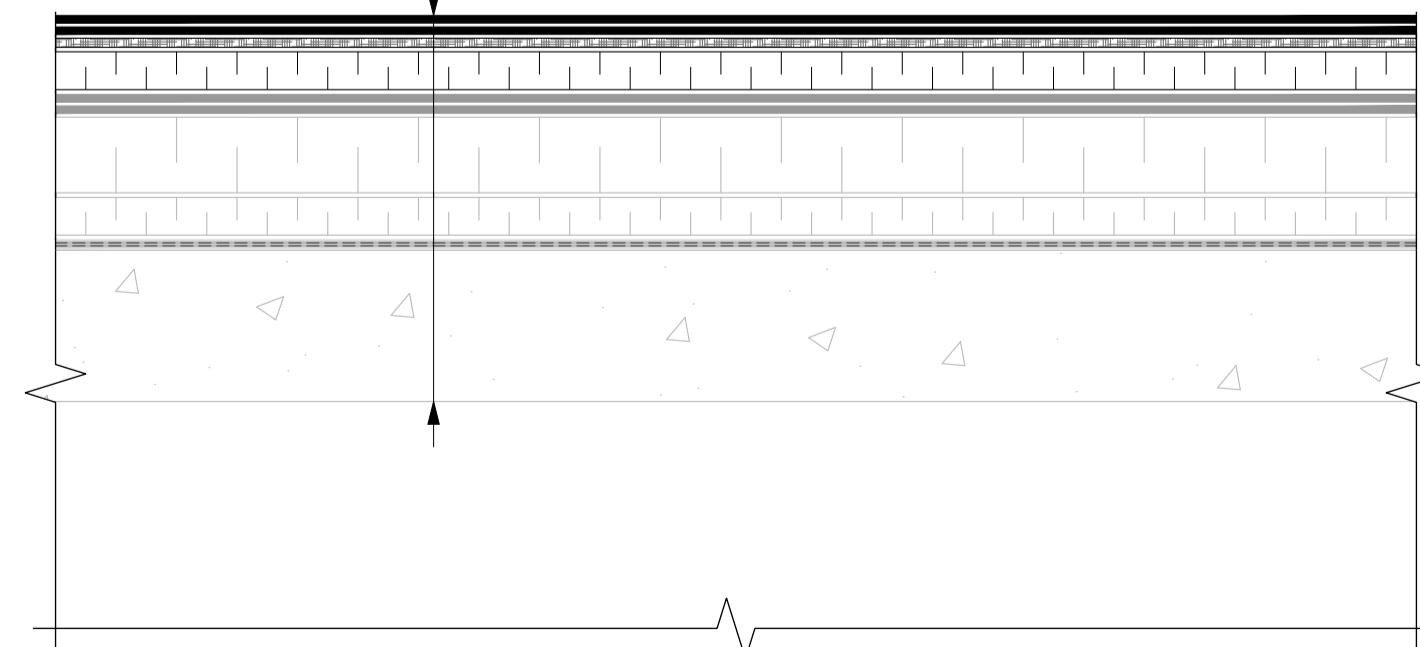
NOTE:  
 EXISTING MEMBRANE TO BE POWER WASHED, DRIED, BROOMED, AND PRIMED.

TYPICAL ROOF SYSTEM R1:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - EXISTING 2-PLY MOD. BIT. MEMBRANE  
 - EXISTING 50 mm FIBREGLASS INSULATION  
 - EXISTING SLOPED FIBREGLASS INSULATION  
 - EXISTING 2-PLY BUR AIR/VAPOUR BARRIER MEMBRANE  
 - EXISTING CONCRETE DECK



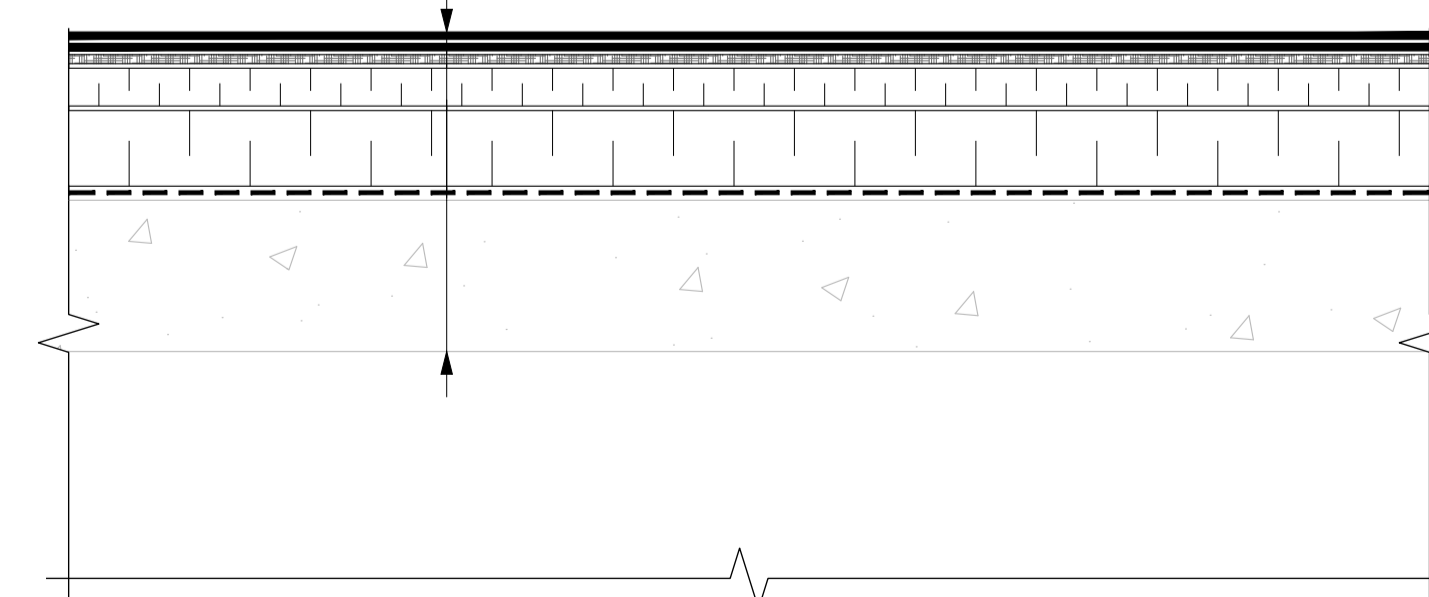
**R1** TYPICAL ROOF SYSTEM R1  
 R2 1:5 ROOF AREAS 1, 2, 8-C, 8-D & 8-E

TYPICAL ROOF SYSTEM R2:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - 6 mm OVERLAY BOARD  
 - SLOPED POLYISO INSULATION  
 - EXISTING 2-PLY MOD. BIT. MEMBRANE  
 - EXISTING 50 mm FIBREGLASS INSULATION  
 - EXISTING SLOPED FIBREGLASS INSULATION  
 - EXISTING 2-PLY BUR AIR/VAPOUR BARRIER MEMBRANE  
 - EXISTING CONCRETE DECK



**R2** TYPICAL ROOF SYSTEM R2  
 R2 1:5 ROOF AREAS 7-A, 7-B, 7-C, 7-D & 7-E

TYPICAL ROOF SYSTEM R3:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - 6 mm OVERLAY BOARD  
 - SLOPED POLYISO INSULATION  
 - 50 mm POLYISO INSULATION  
 - 1-PLY MOD. BIT. AIR/VAPOUR BARRIER MEMBRANE  
 - EXISTING CONCRETE DECK



**R3** TYPICAL ROOF SYSTEM R3  
 R2 1:5 ROOF AREAS - DOOR COVER 1 & DOORCOVER 2

o Verify all dimensions and site conditions and be responsible for same  
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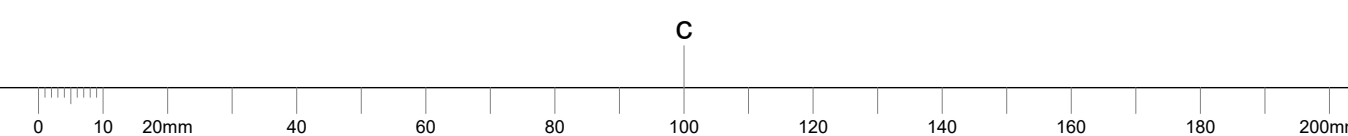
A	A
B	B
C	C

project  
**ROOF OVERLAY 2019**  
 BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8  
 1920 RESEARCH PRIVATE, OTTAWA ON

NATIONAL RESEARCH COUNCIL

drawing  
**DETAILS**

designed <b>John Callender</b>	conçu <b>John Callender</b>	date <b>2019-02-11</b>	date
drawn <b>Roel Parker</b>	dessiné <b>Roel Parker</b>	scale <b>1:5</b>	échelle
checked <b>John Callender</b>	vérifié <b>John Callender</b>	sheet <b>2</b>	of/de <b>12</b>
approved	approuvé	W.O.no.	D.T.no.
dwg.no. <b>5676 - R2</b>	dessin no.		

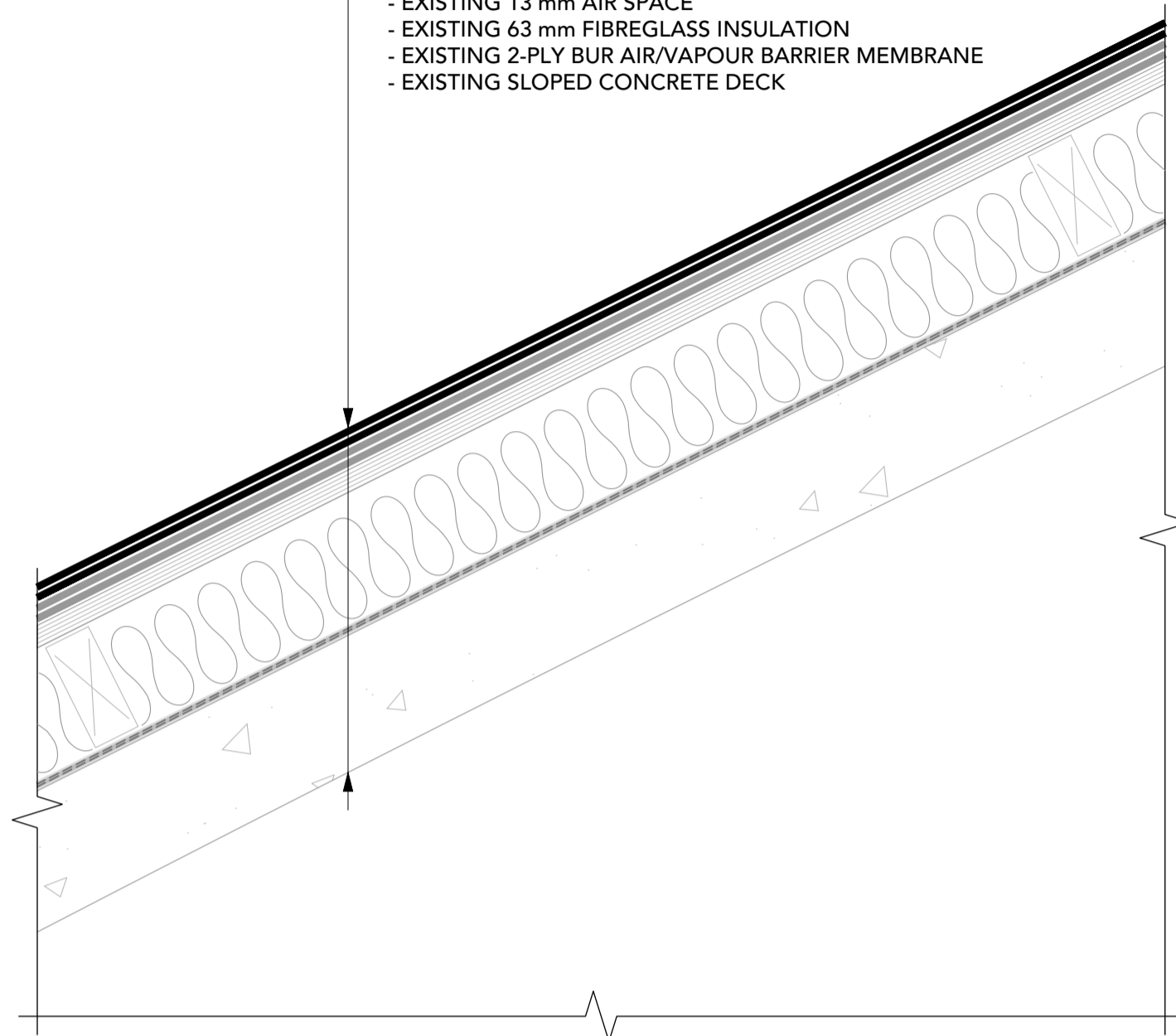




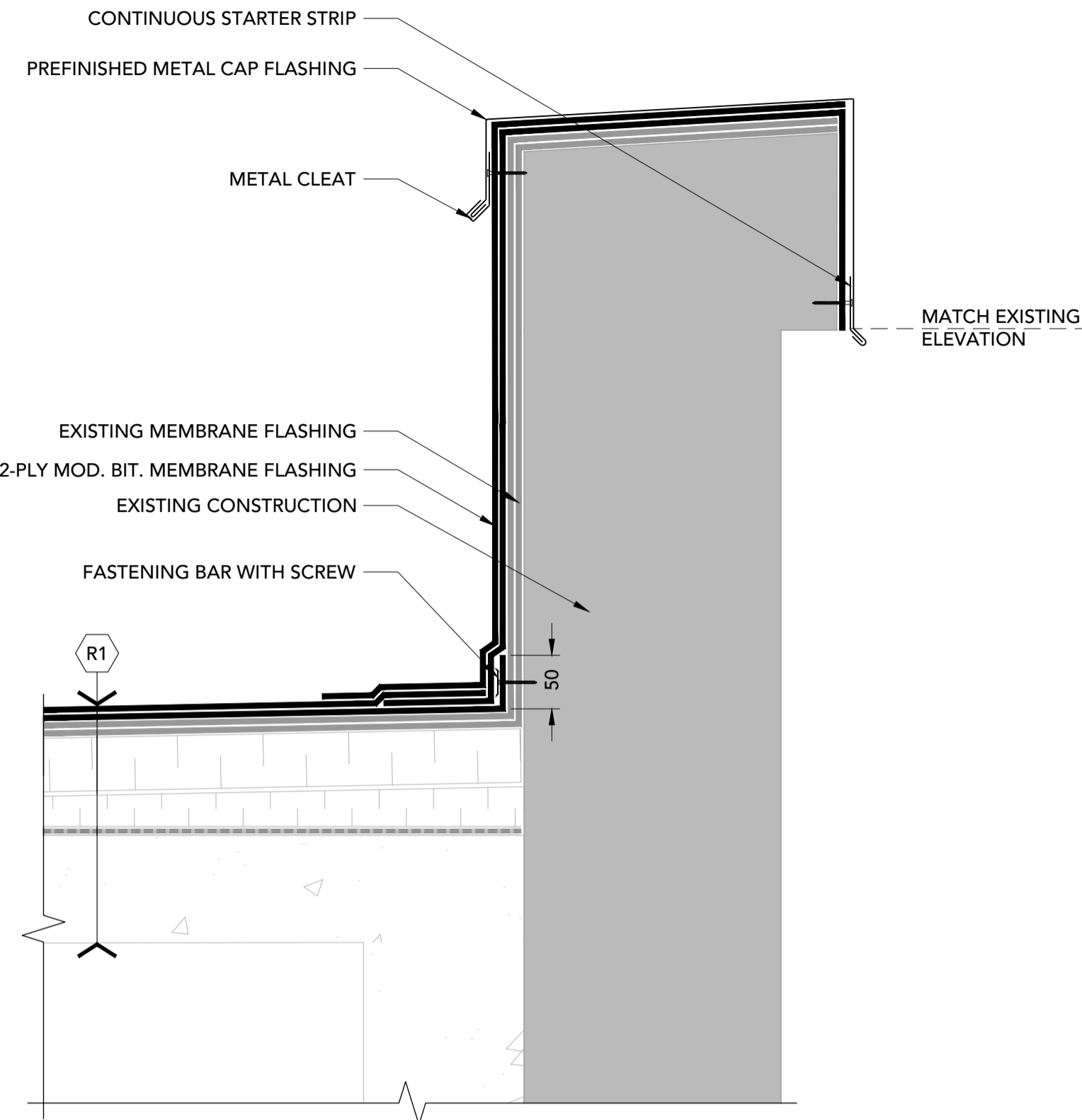
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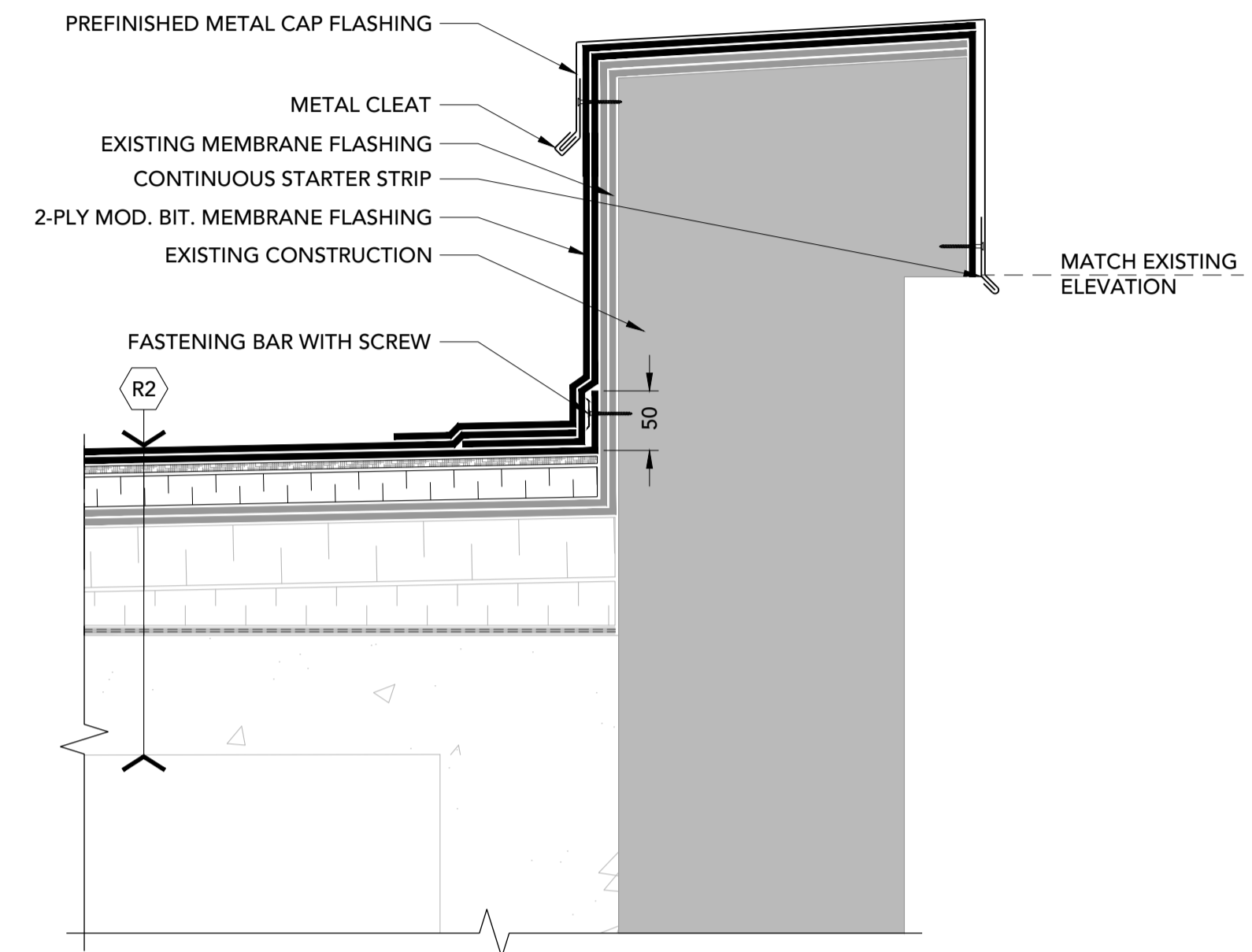
- TYPICAL ROOF SYSTEM R4:  
 - 2-PLY MOD. BIT. MEMBRANE  
 - EXISTING 2-PLY MOD. BIT. MEMBRANE  
 - EXISTING 16 mm PLYWOOD  
 - EXISTING 13 mm AIR SPACE  
 - EXISTING 63 mm FIBREGLASS INSULATION  
 - EXISTING 2-PLY BUR AIR/VAPOUR BARRIER MEMBRANE  
 - EXISTING SLOPED CONCRETE DECK



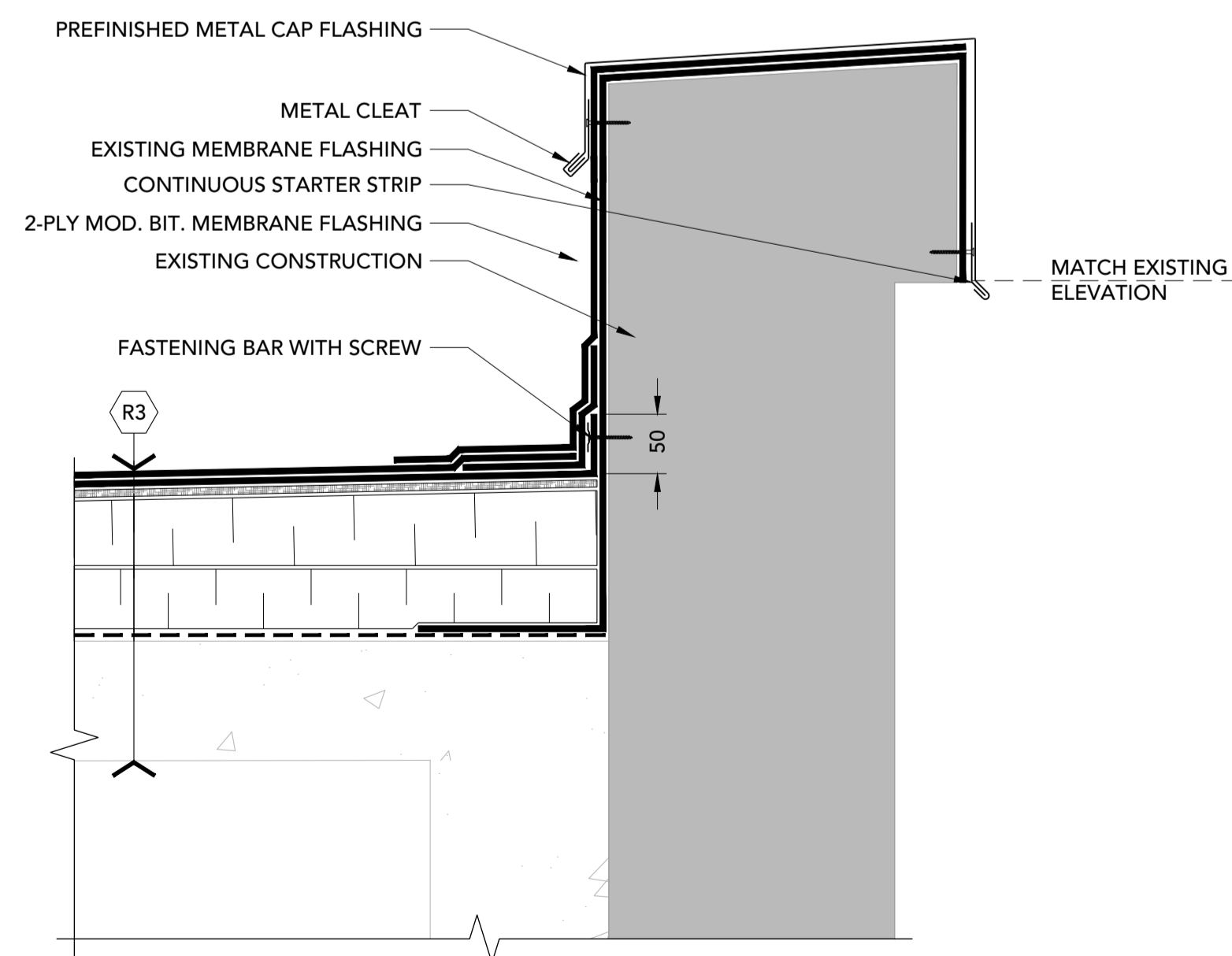
**R4** TYPICAL ROOF SYSTEM R4  
**R3** 1:5 ROOF AREA 6



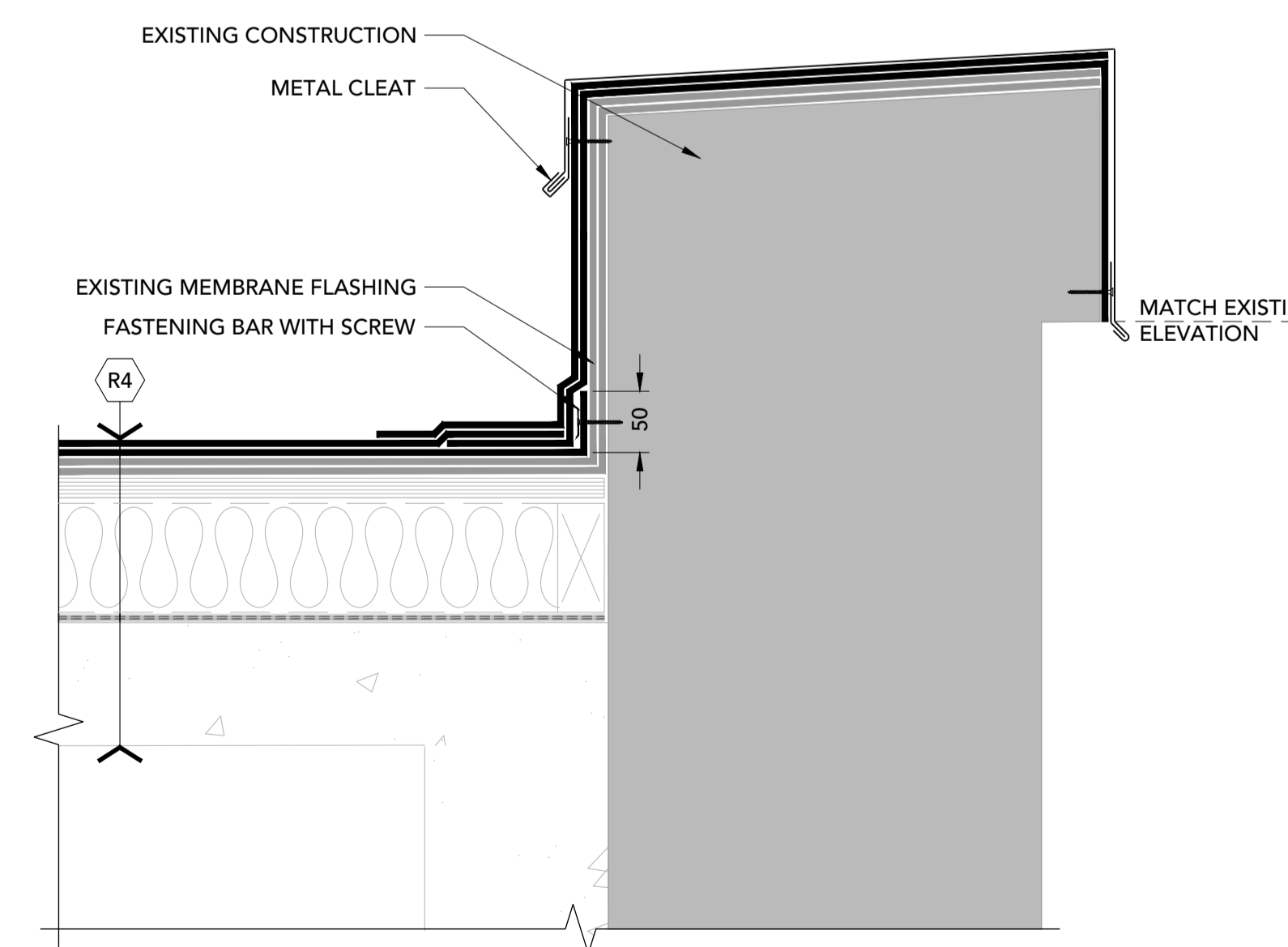
**1** PARAPET  
**R3** 1:5



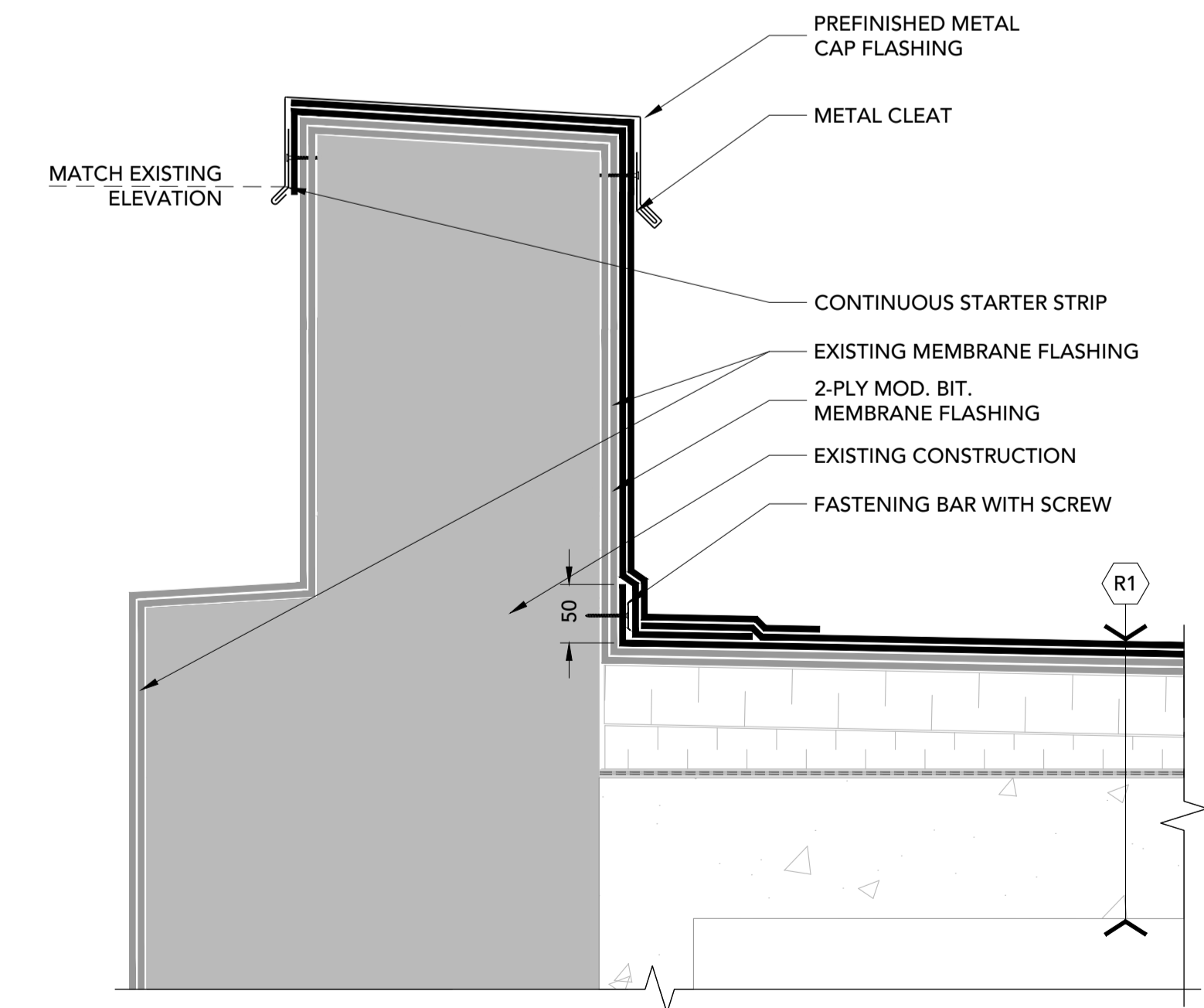
**2** PARAPET  
**R3** 1:5



**3** PARAPET  
**R3** 1:5



**4** PARAPET  
**R3** 1:5



**5** PARAPET  
**R3** 1:5

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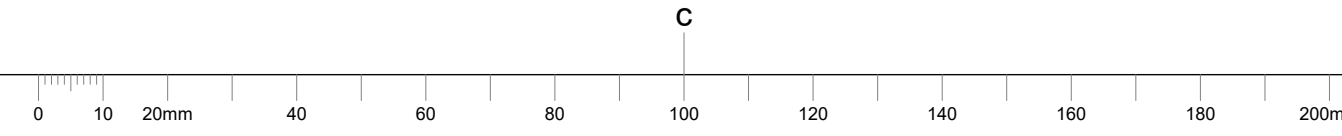
A	A
B	B
C	C

project  
**ROOF OVERLAY 2019**  
**BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8**  
**1920 RESEARCH PRIVATE, OTTAWA ON**  
 project

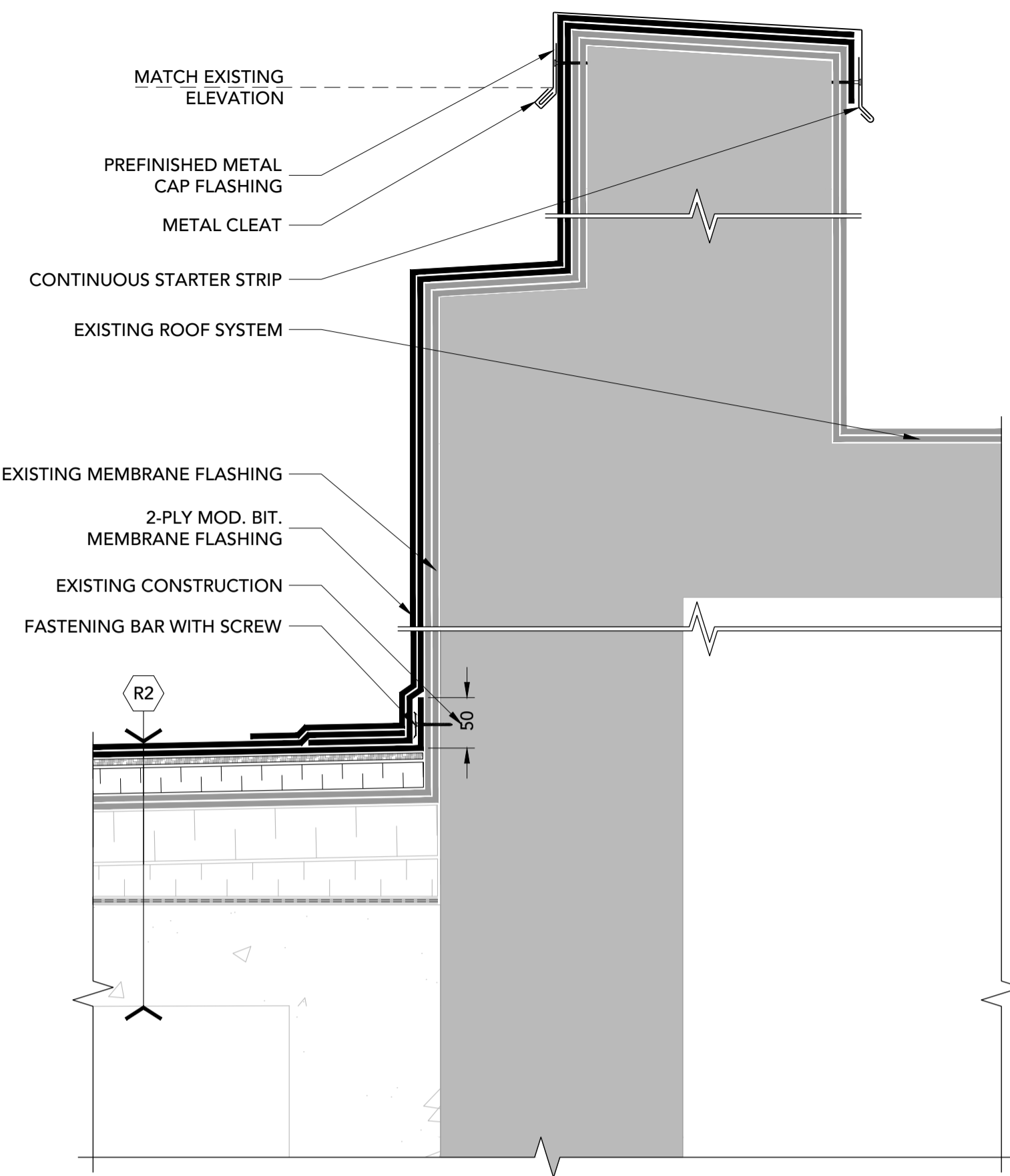
**NATIONAL RESEARCH COUNCIL**  
 dessin

drawing  
**DETAILS**

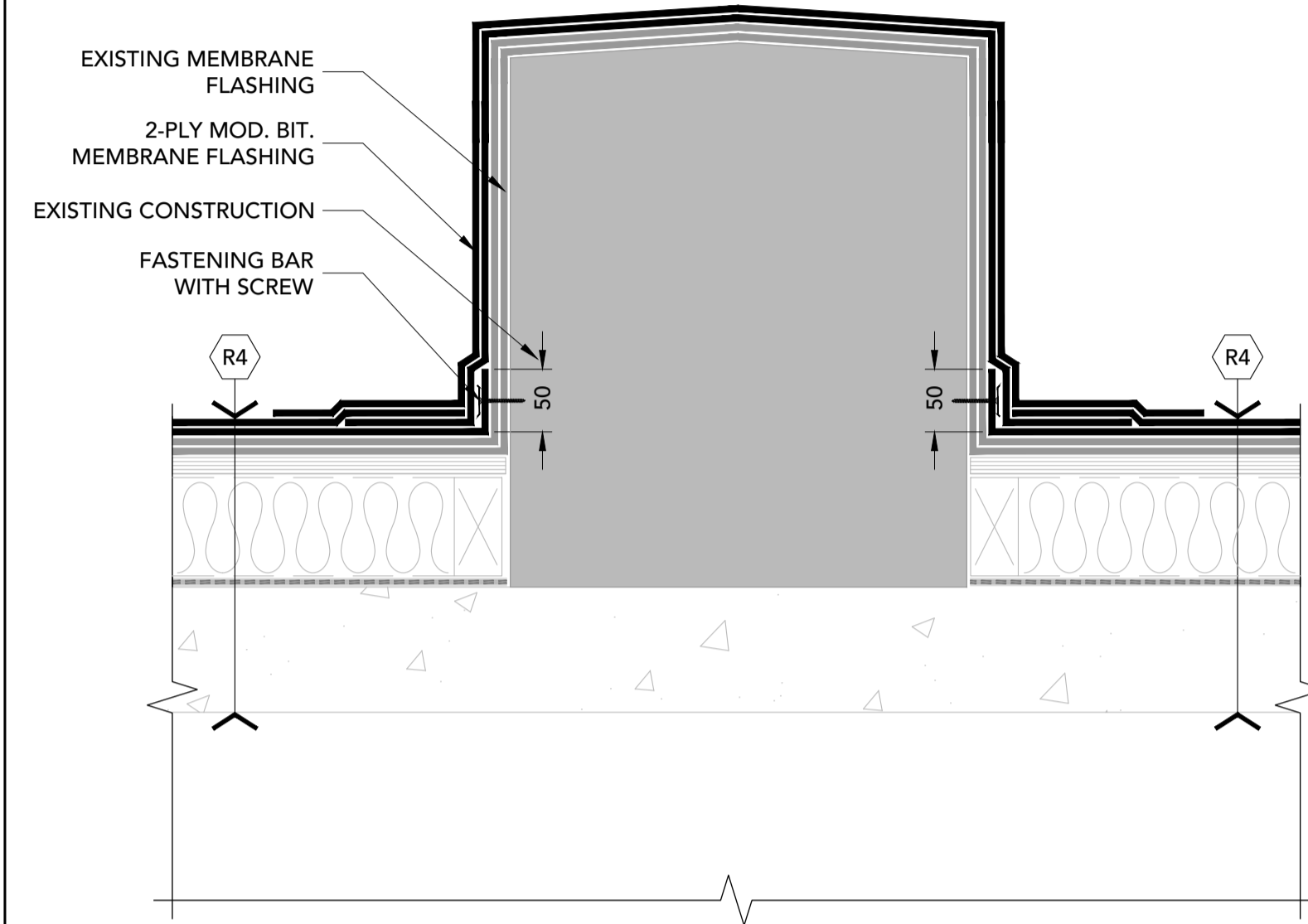
designed <b>John Callender</b>	conçu <b>John Callender</b>	date <b>2019-02-11</b>	date
drawn <b>Roel Parker</b>	dessiné <b>Roel Parker</b>	scale <b>1:5</b>	échelle
checked <b>John Callender</b>	vérifié <b>John Callender</b>	sheet <b>3</b>	of/de <b>12</b>
approved	approuvé	W.O.no.	D.T.no.
dwg.no.	dessin no.		



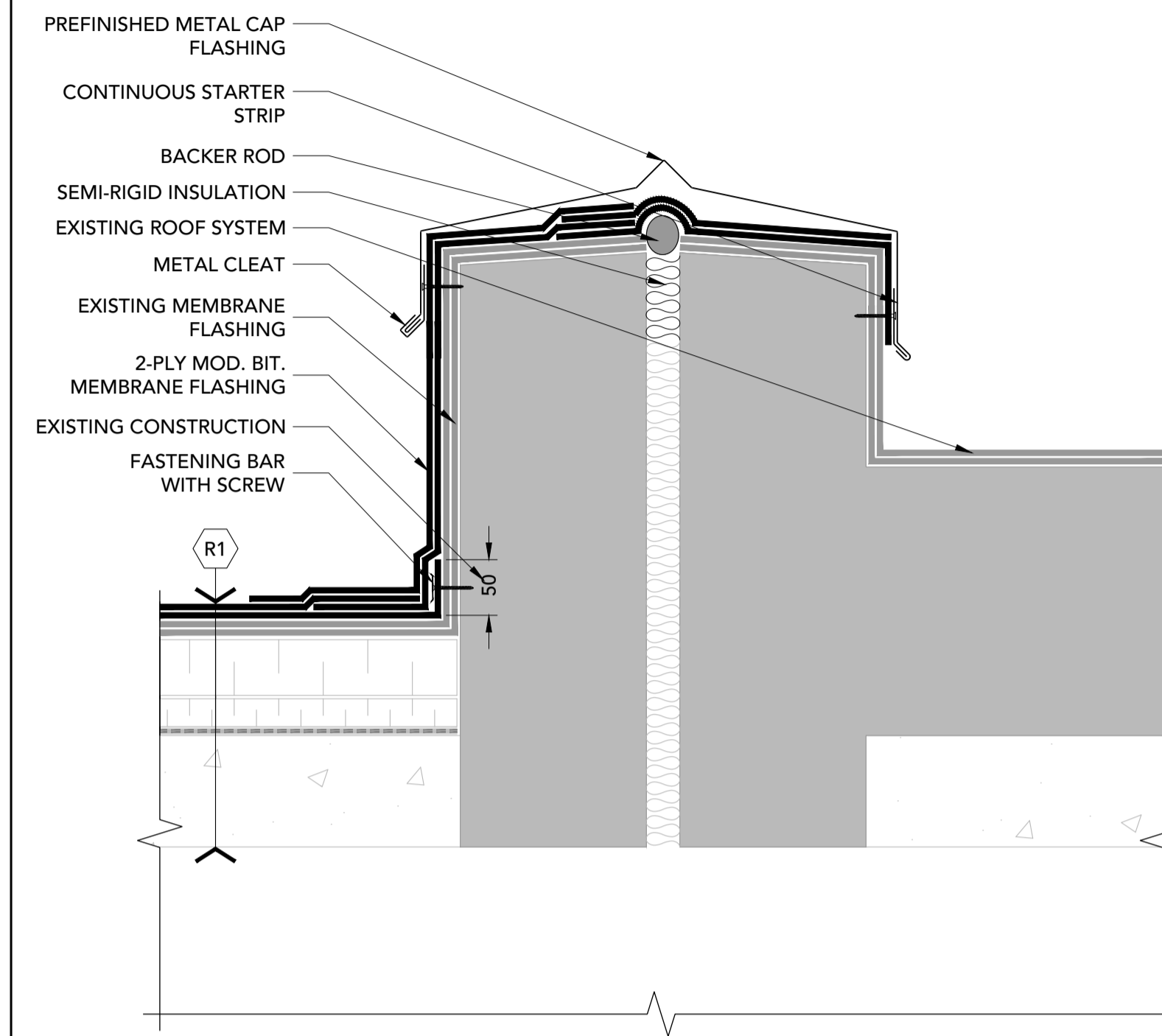
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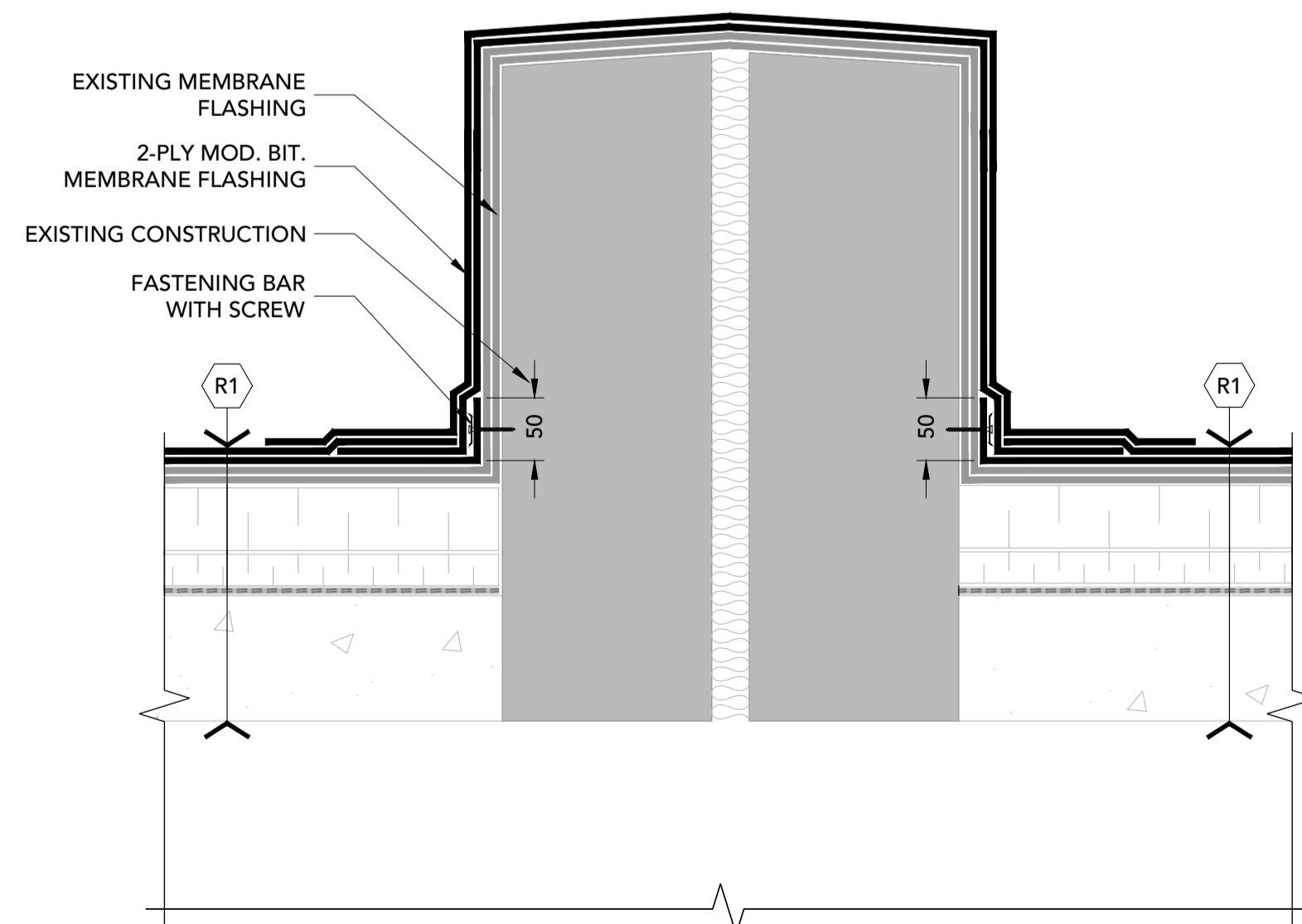
**6 CONTROL JOINT**  
R4 1:5



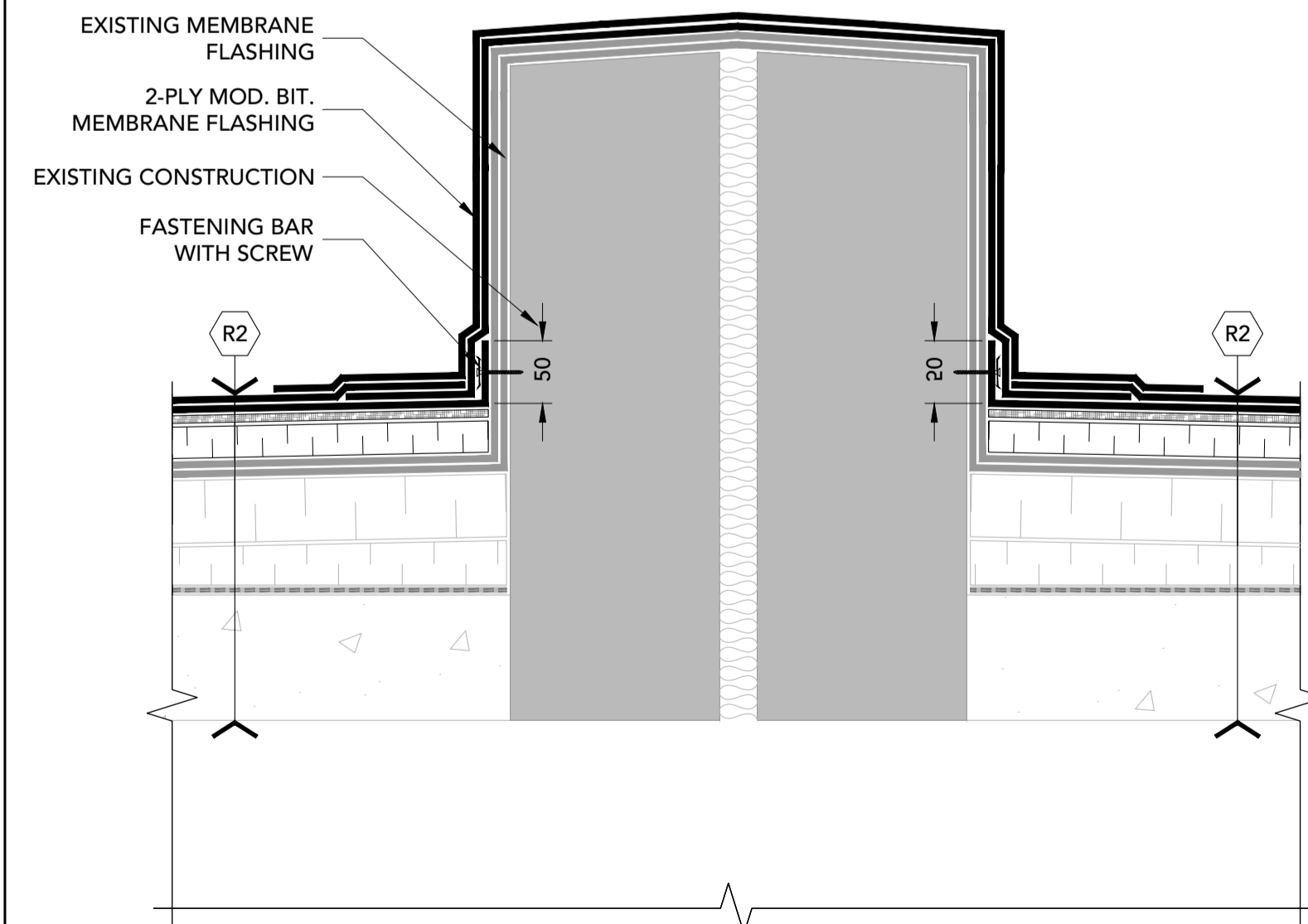
**7 CONTROL JOINT**  
R4 1:5



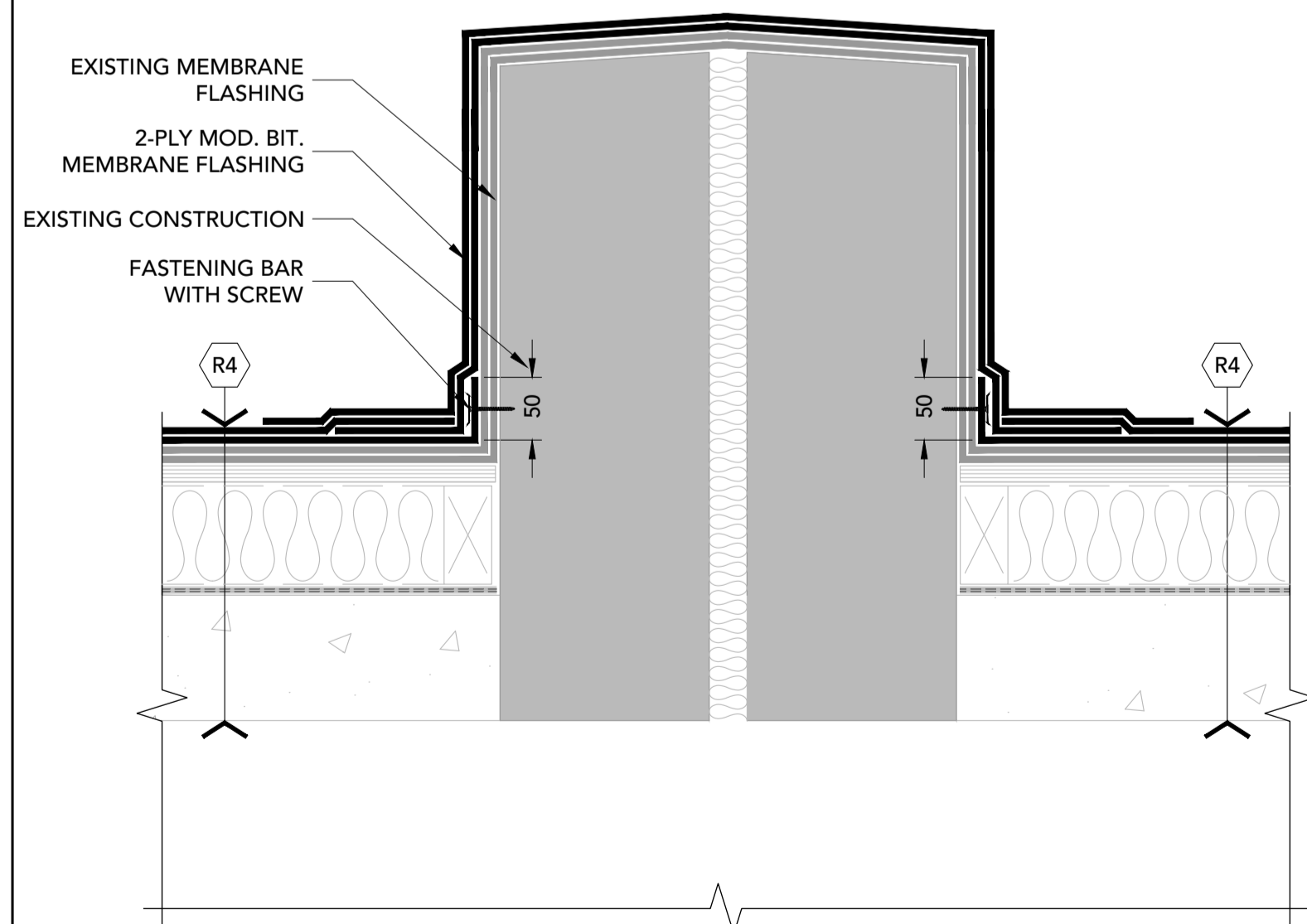
**8 EXPANSION JOINT**  
R4 1:5



**9 EXPANSION JOINT**  
R4 1:5



**10 EXPANSION JOINT**  
R4 1:5

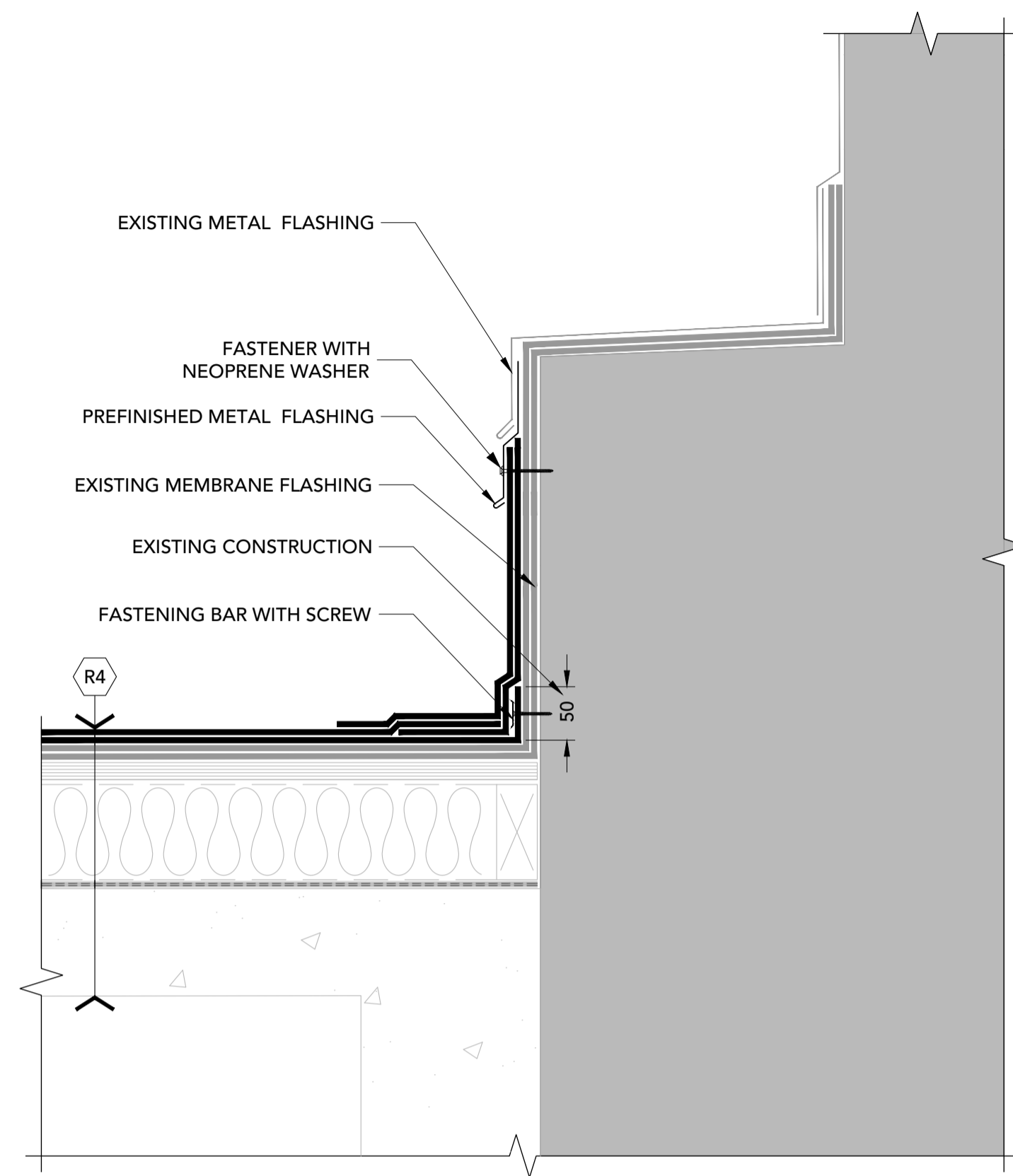


**11 EXPANSION JOINT**  
R4 1:5

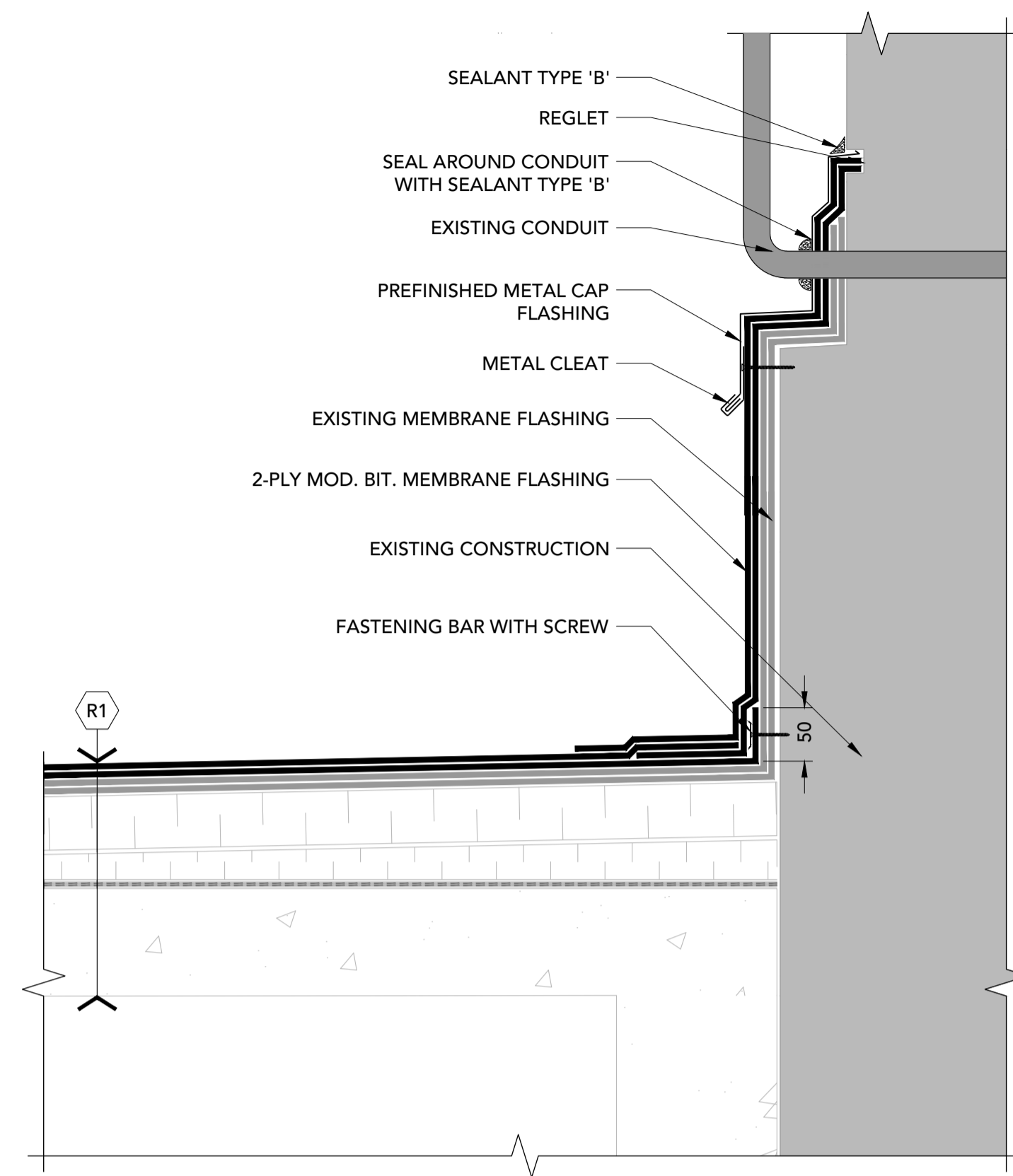
designed / conçu	John Callender	date / date	2019-02-11
drawn / dessiné	Roel Parker	scale / échelle	1:5
checked / vérifié	John Callender	sheet / feuille	4 of / de 12
approved / approuvé		W.O. no.	D.T. no.
dwg. no.	5676 - R4		



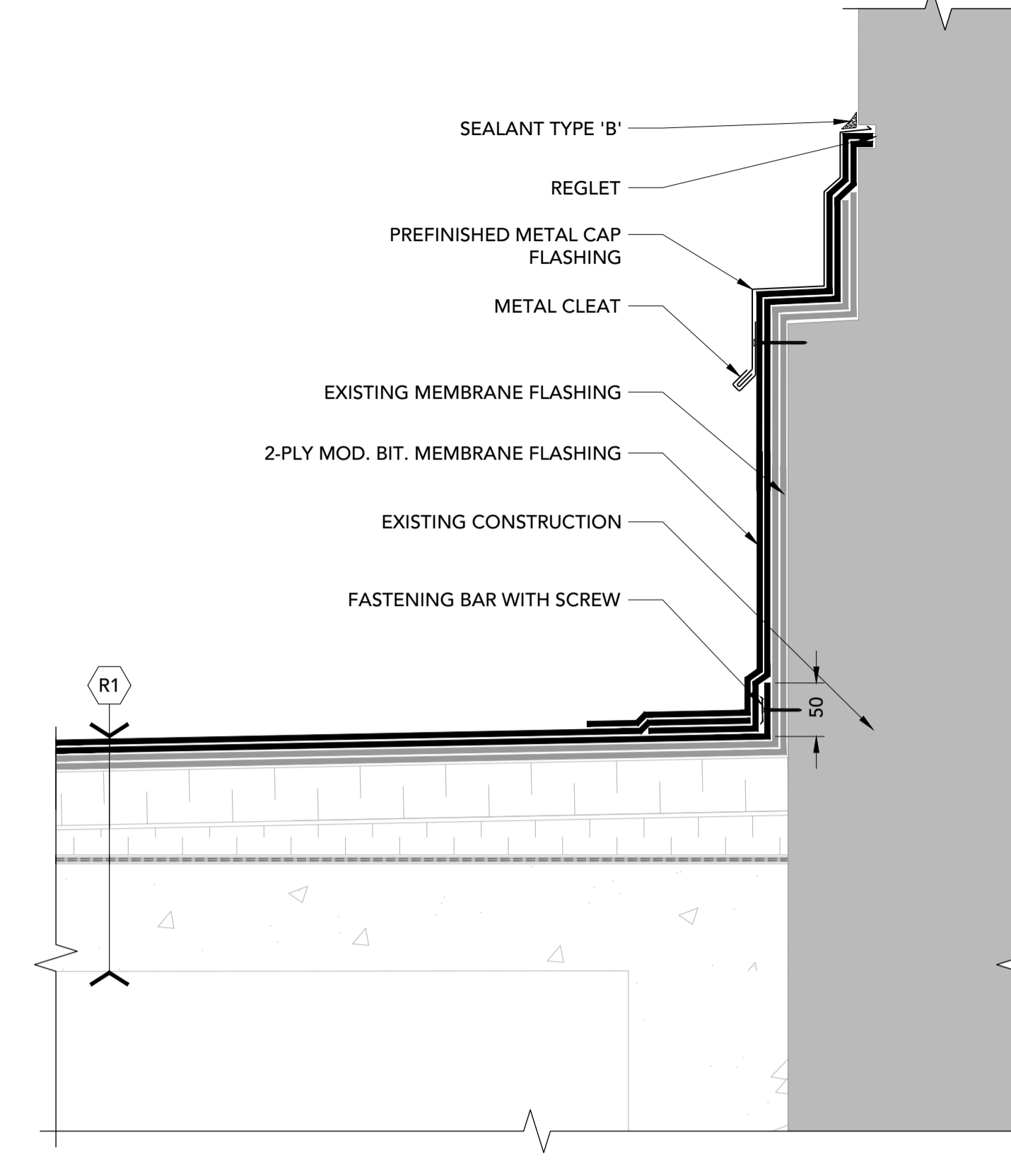
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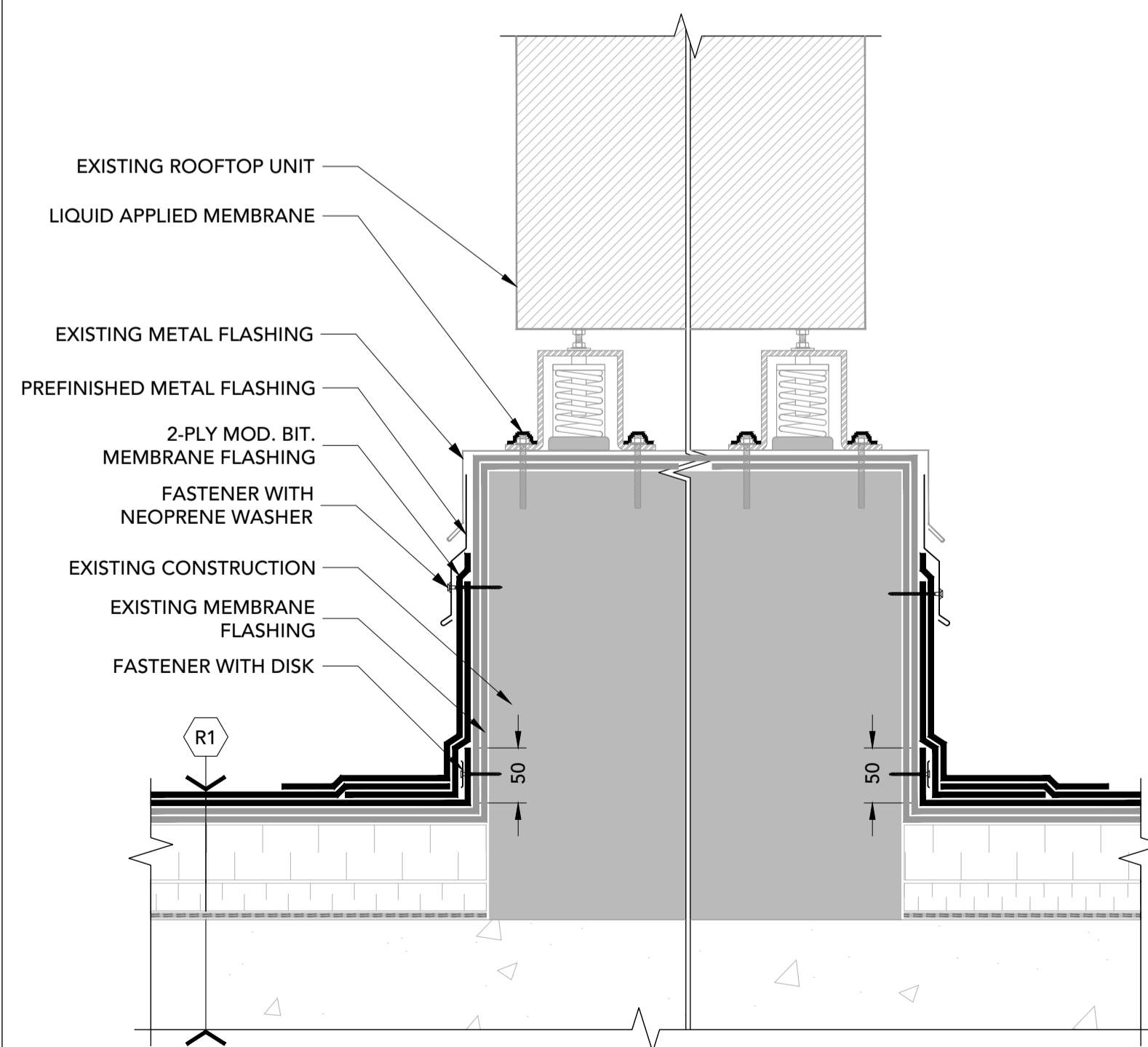
**12 WALL FLASHING**  
R5 1:5



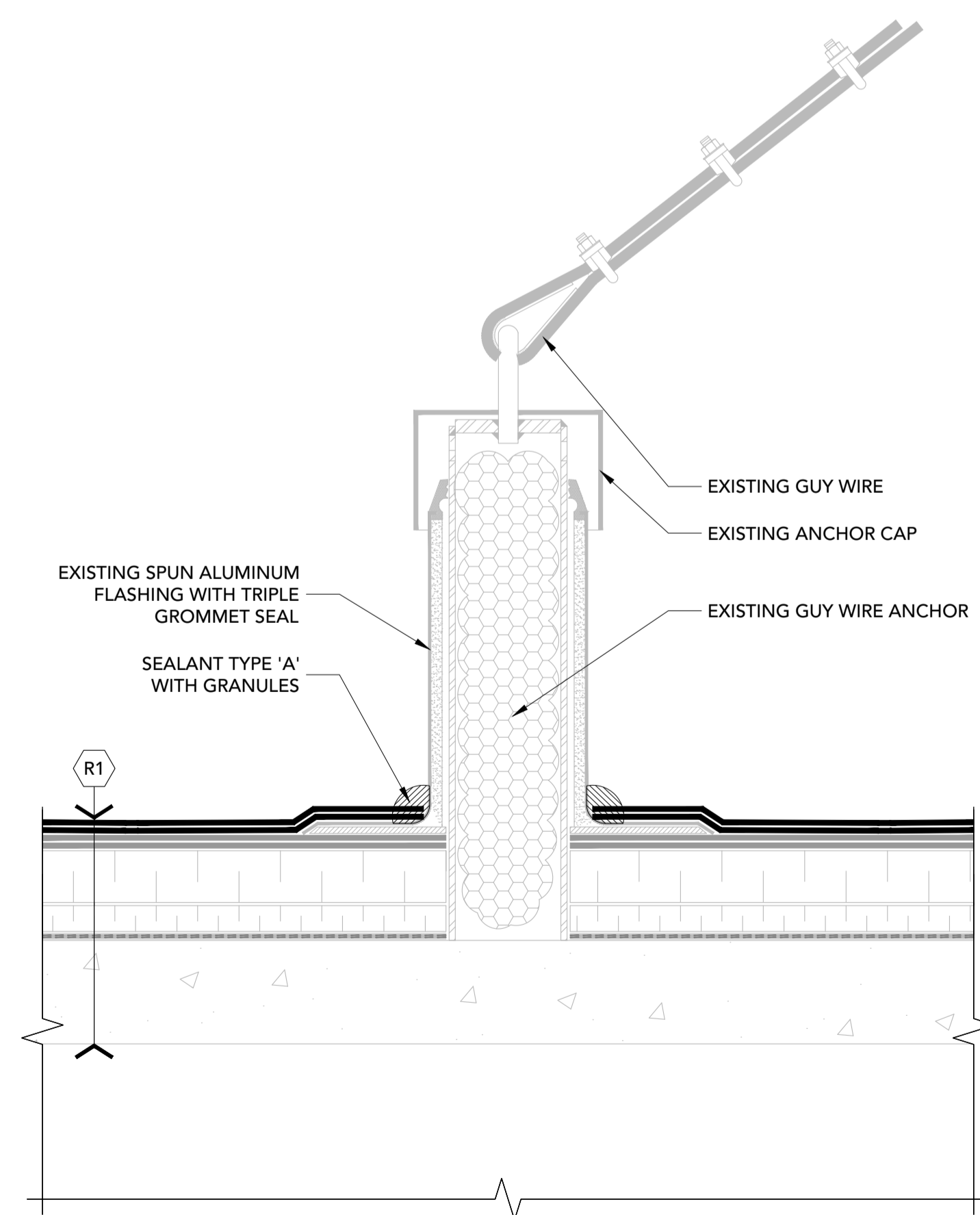
**13 WALL PENETRATION**  
R5 1:5



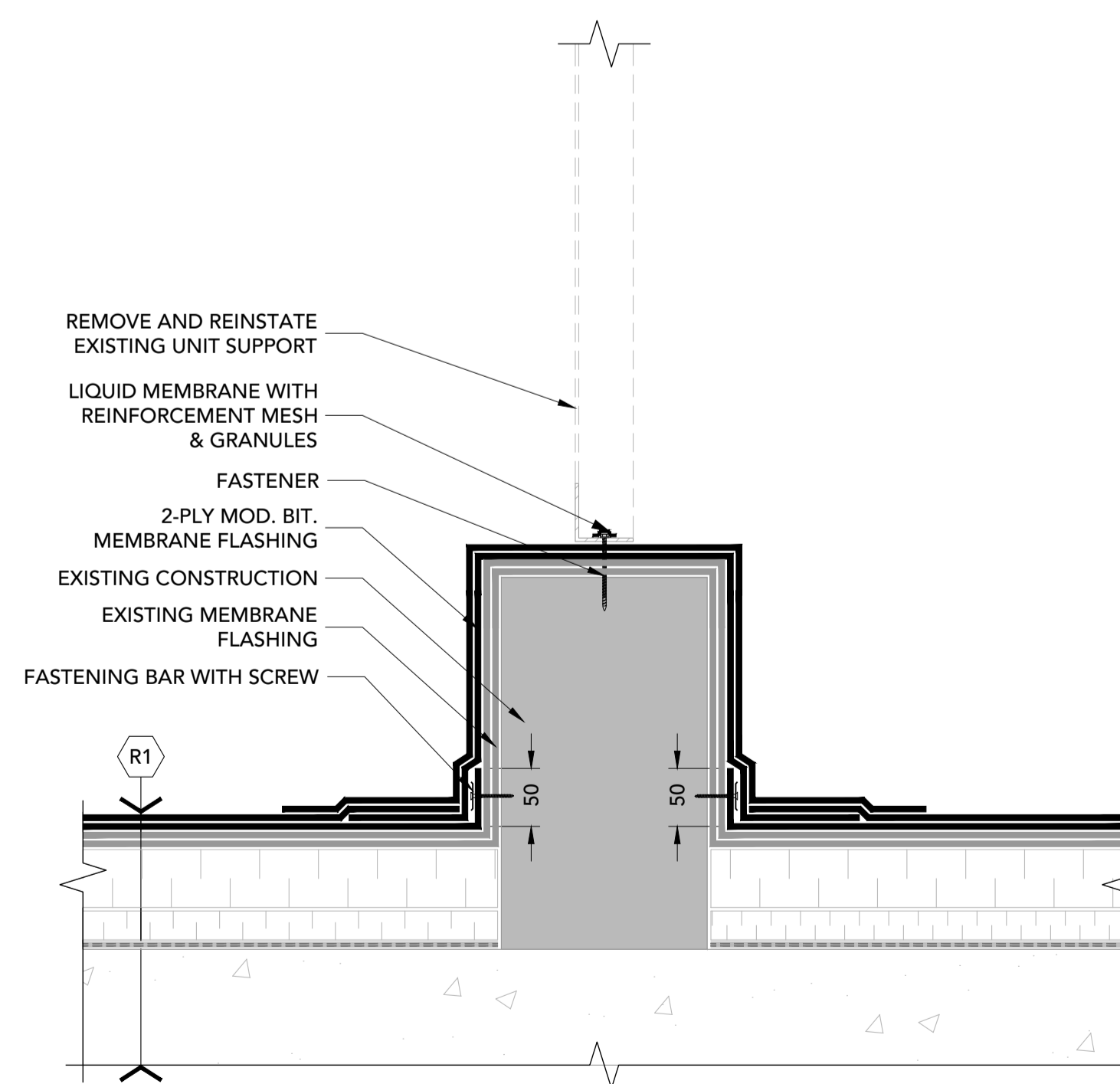
**14 WALL FLASHING**  
R5 1:5



**15 ROOFTOP UNIT**  
R5 1:5



**16 GUY WIRE ANCHOR**  
R5 1:5



**17 BUILT-IN SLEEPER**  
R5 1:5

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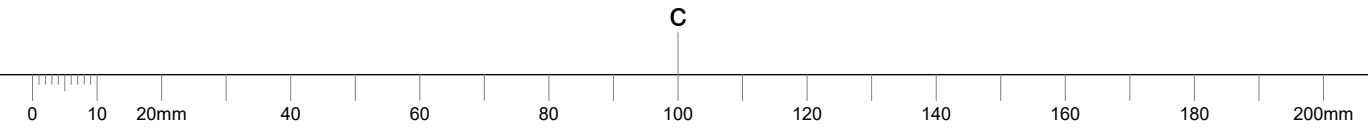
A	A
B	B
C	C

project: **ROOF OVERLAY 2019**  
 BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8  
 1920 RESEARCH PRIVATE, OTTAWA ON

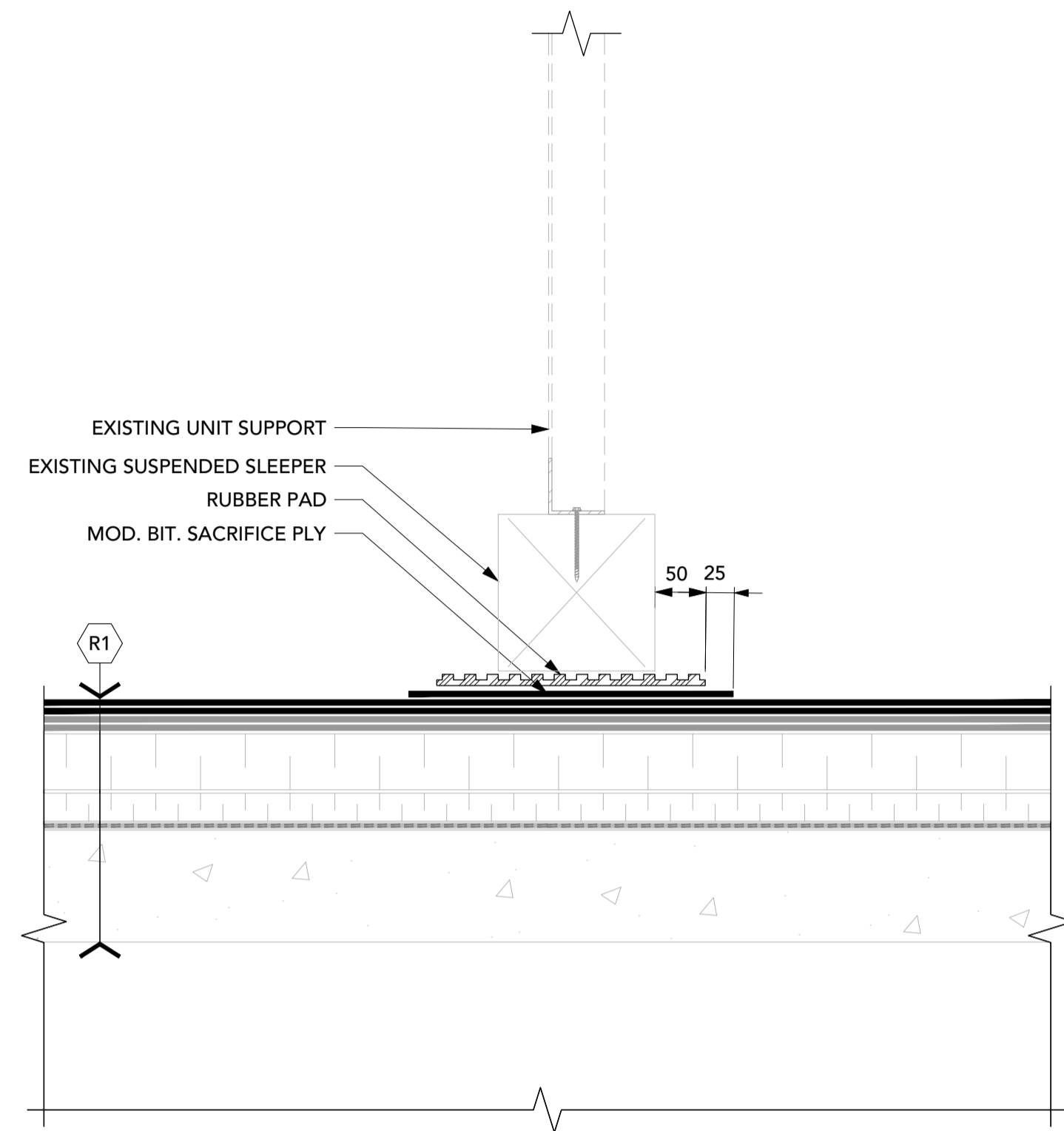
NATIONAL RESEARCH COUNCIL

drawing: **DETAILS**

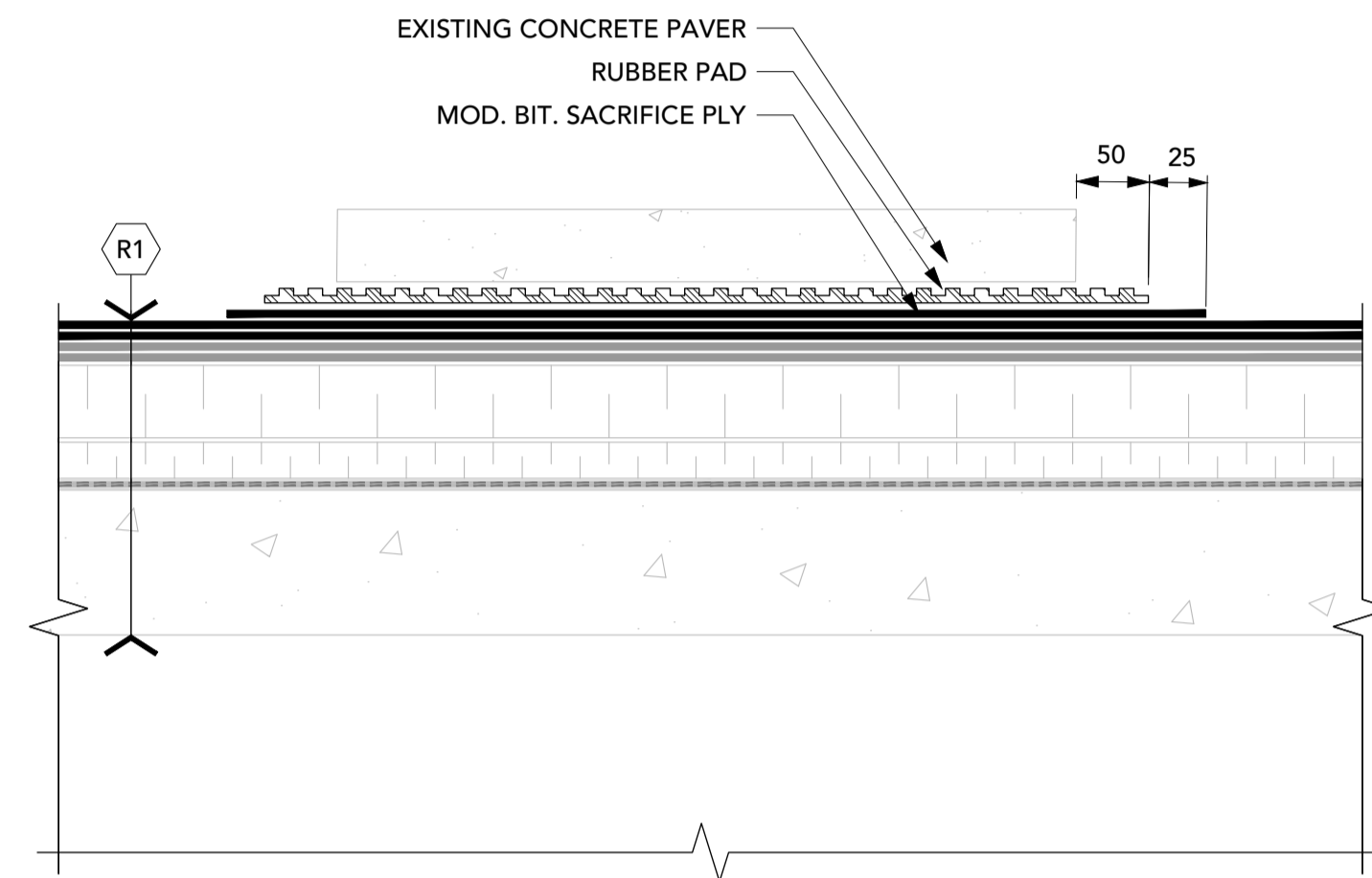
designed	conçu	date	date
John Callender		2019-02-11	
drawn	dessiné	scale	échelle
Roel Parker		1:5	
checked	vérifié	sheet	feuille
John Callender		5 of/de 12	
approved	approuvé	W.O.no.	D.T.no.
dwg.no.			dessin no.



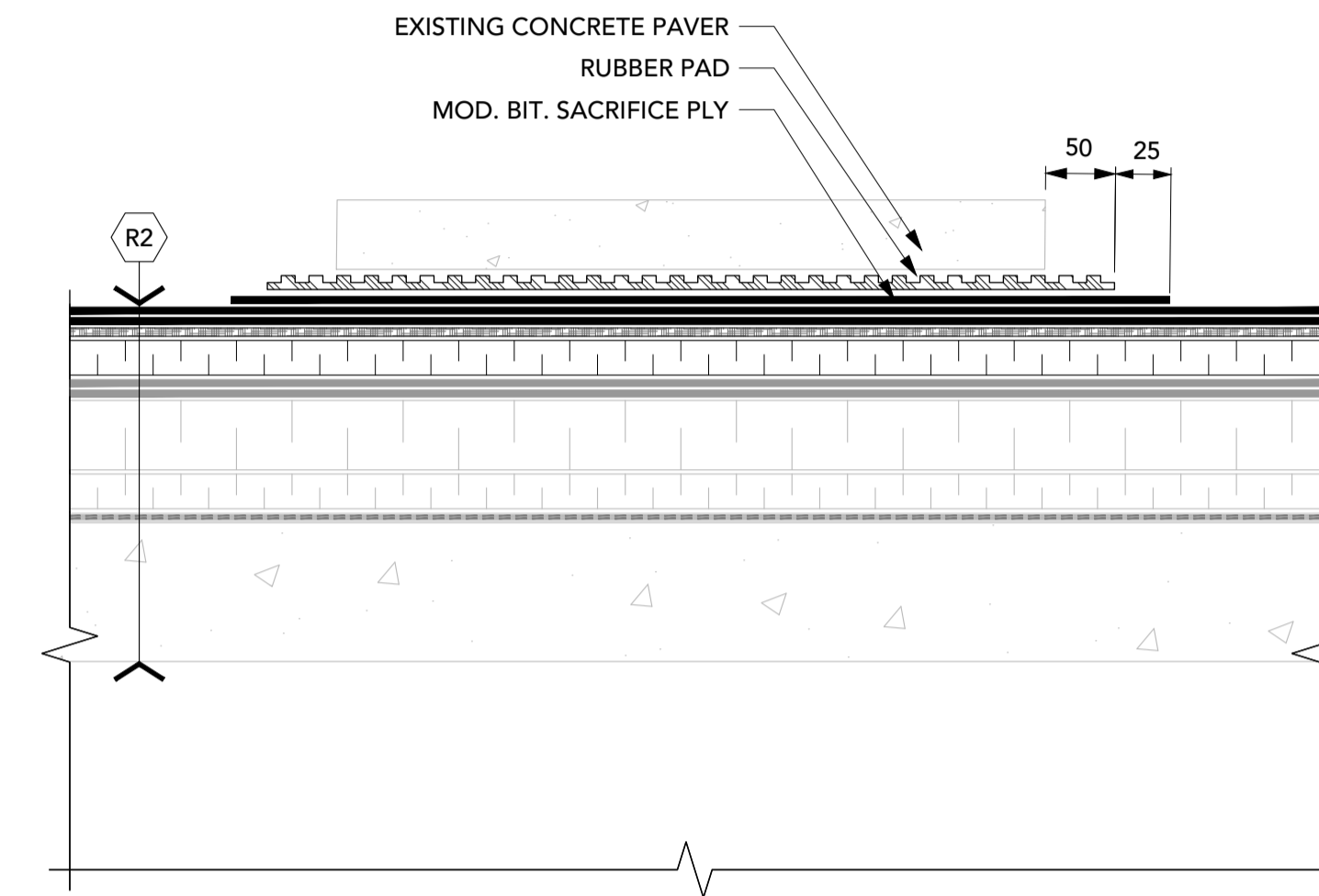
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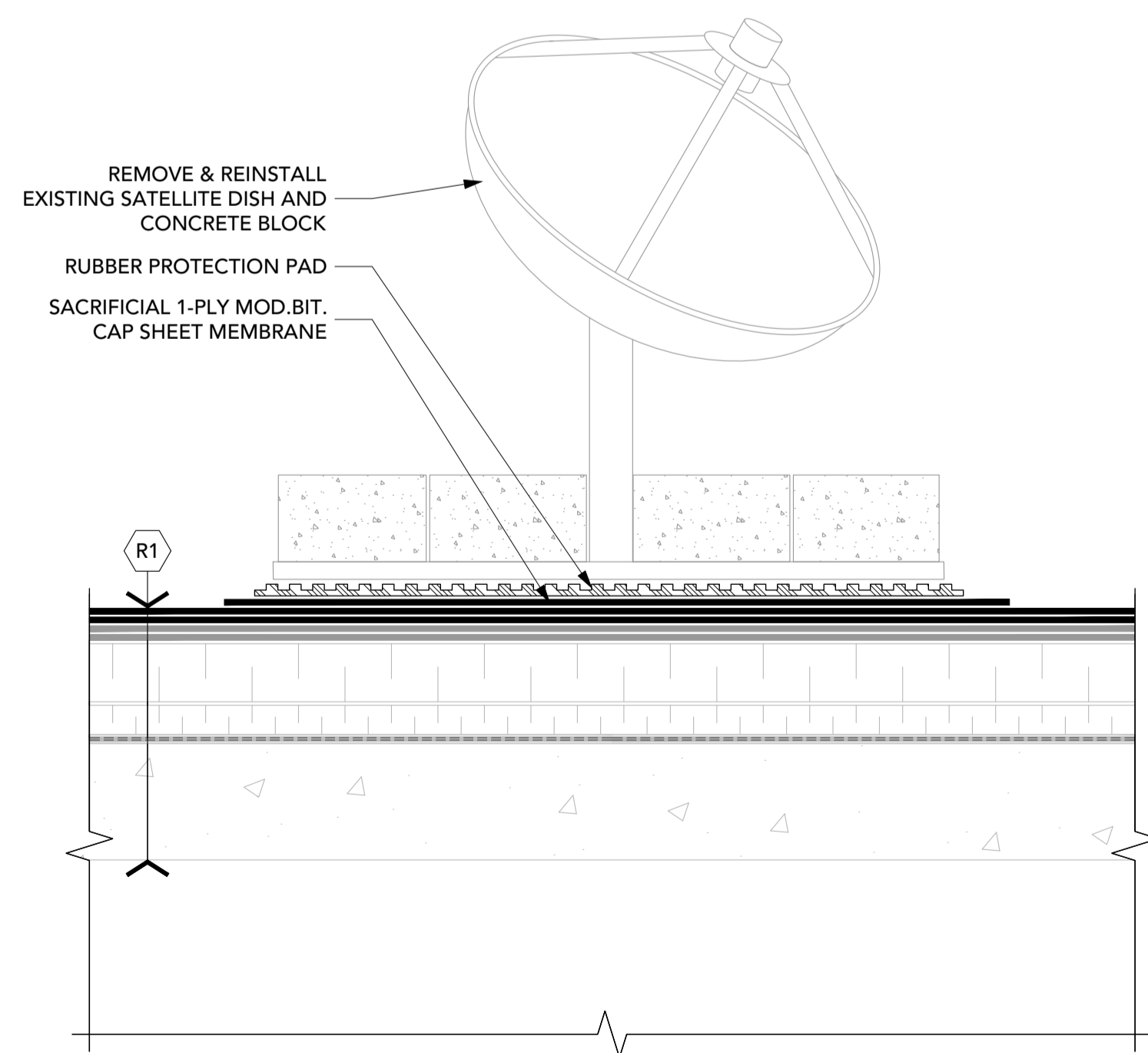
**18** SUSPENDED SLEEPER  
 R6 1:5



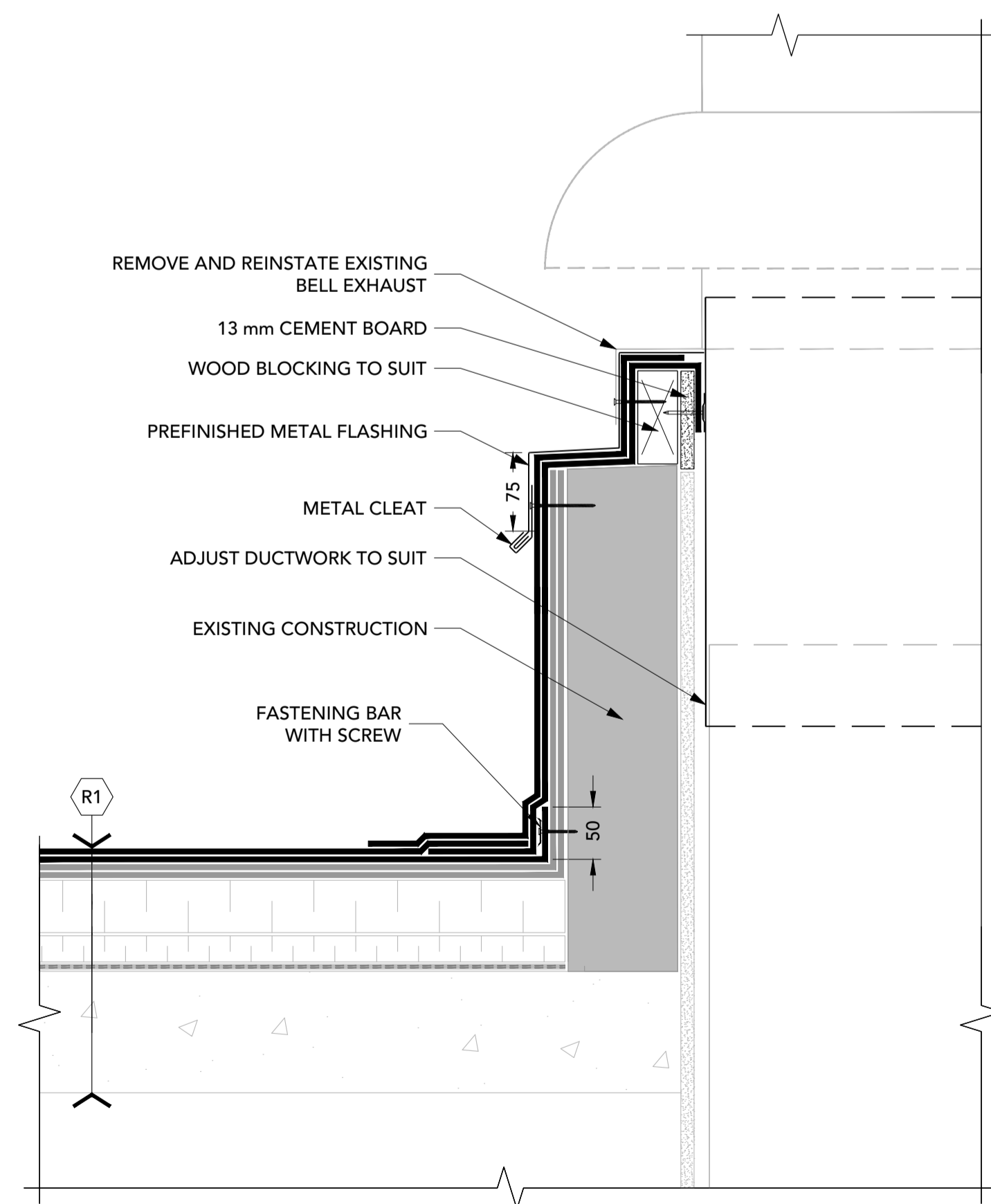
**19** CONCRETE PAVER  
 R6 1:5



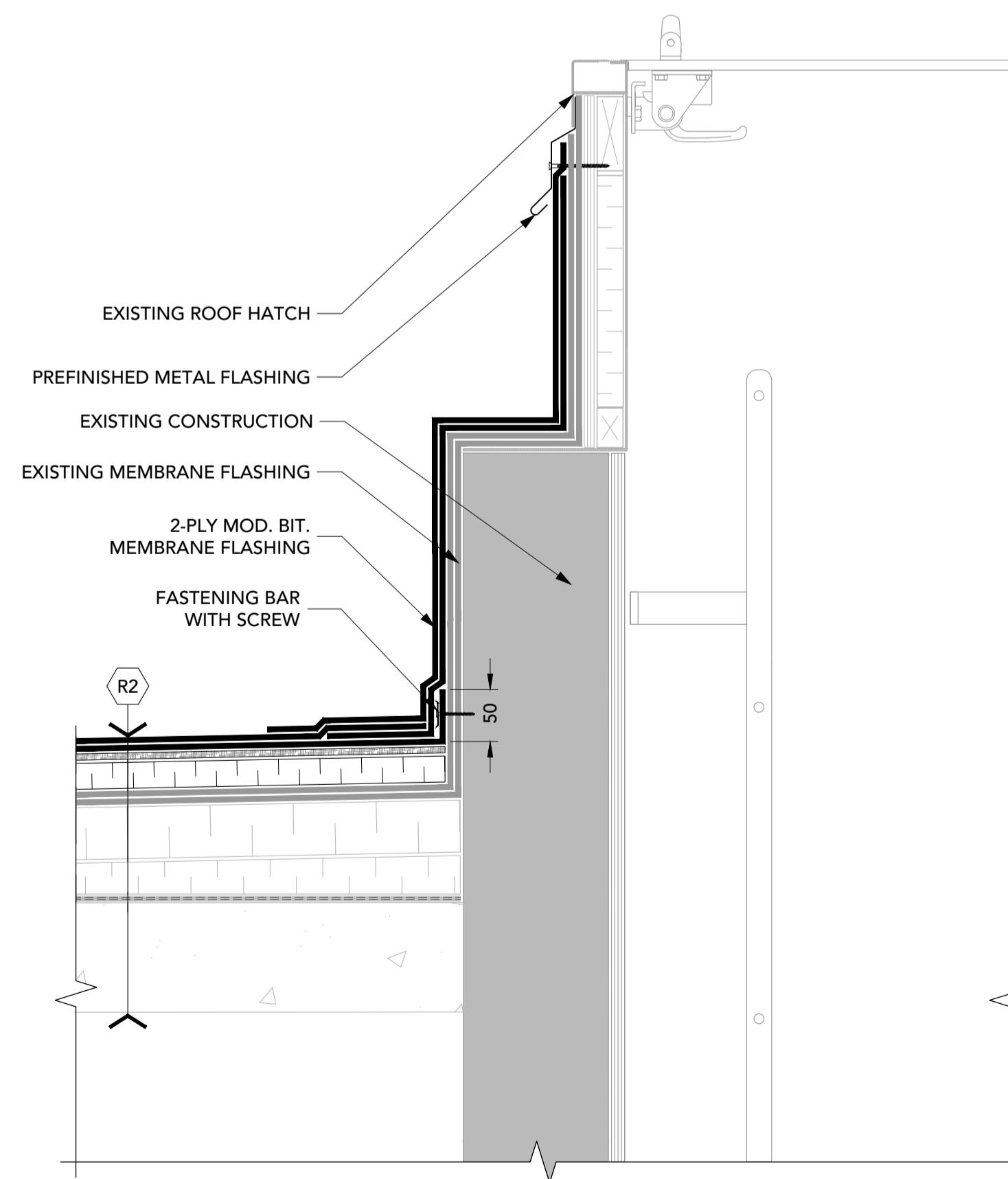
**20** CONCRETE PAVER  
 R6 1:5



**21** SATELITE DISH  
 R6 1:5



**22** BELL EXHAUST  
 R6 1:5



**23** ROOF HATCH  
 R6 1:5

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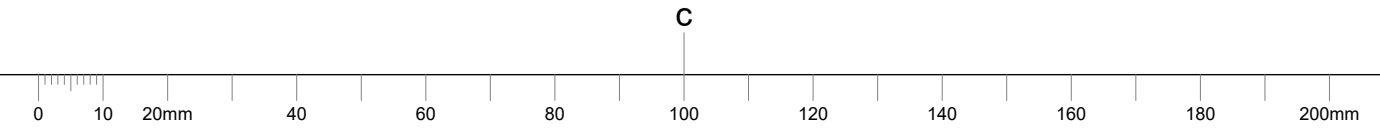
A	A
B	B
C	C

project / projet  
**ROOF OVERLAY 2019**  
 BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8  
 1920 RESEARCH PRIVATE, OTTAWA ON

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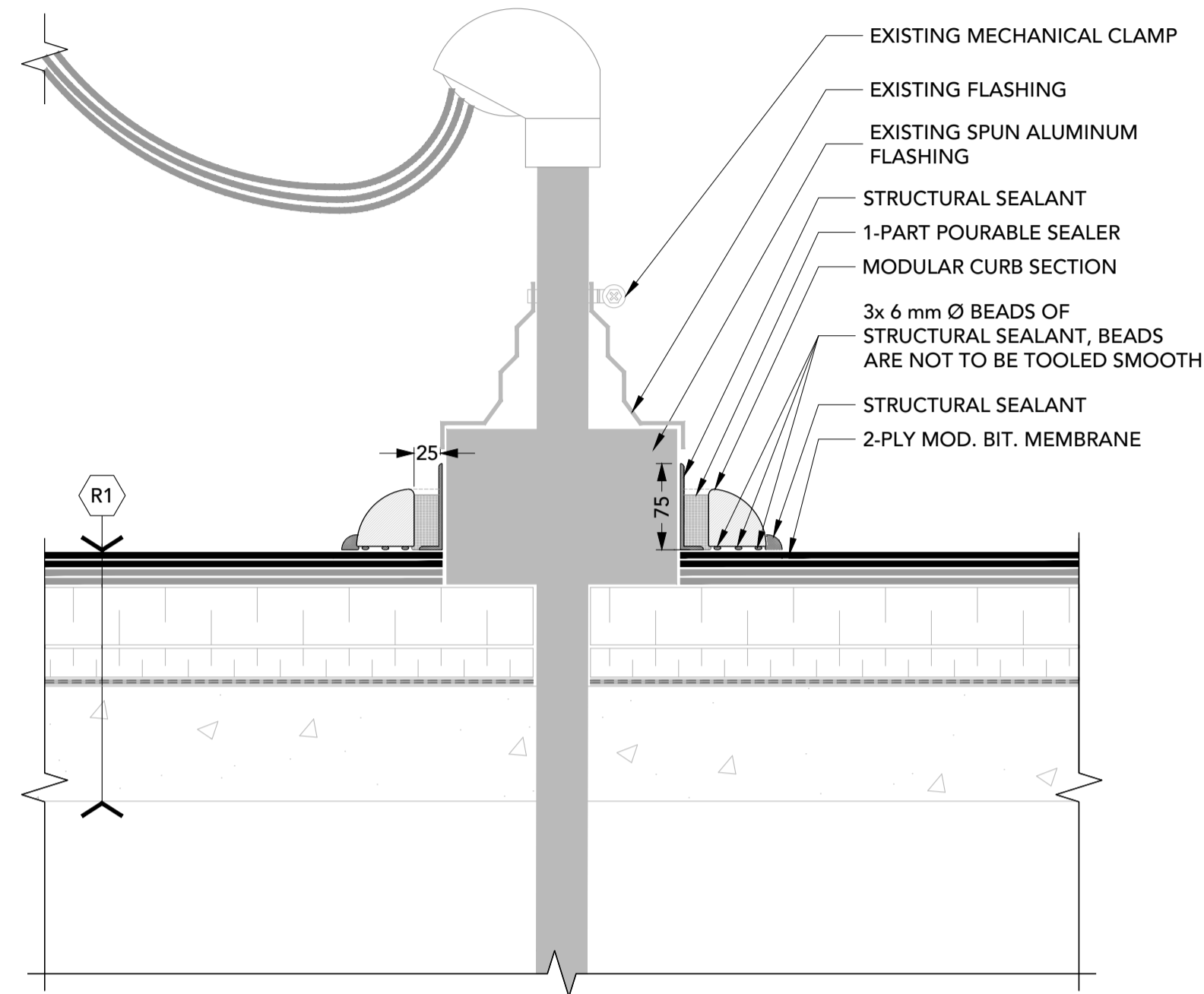
drawing / dessin  
**DETAILS**

designed / conçu	date	date
<b>John Callender</b>	<b>2019-02-11</b>	
drawn / dessiné	scale	échelle
<b>Roel Parker</b>	<b>1:5</b>	
checked / vérifié	sheet / feuille	of / de
<b>John Callender</b>	<b>6</b>	<b>12</b>
approved / approuvé	W.O. no.	D.T. no.
dwg. no.	dessin no.	

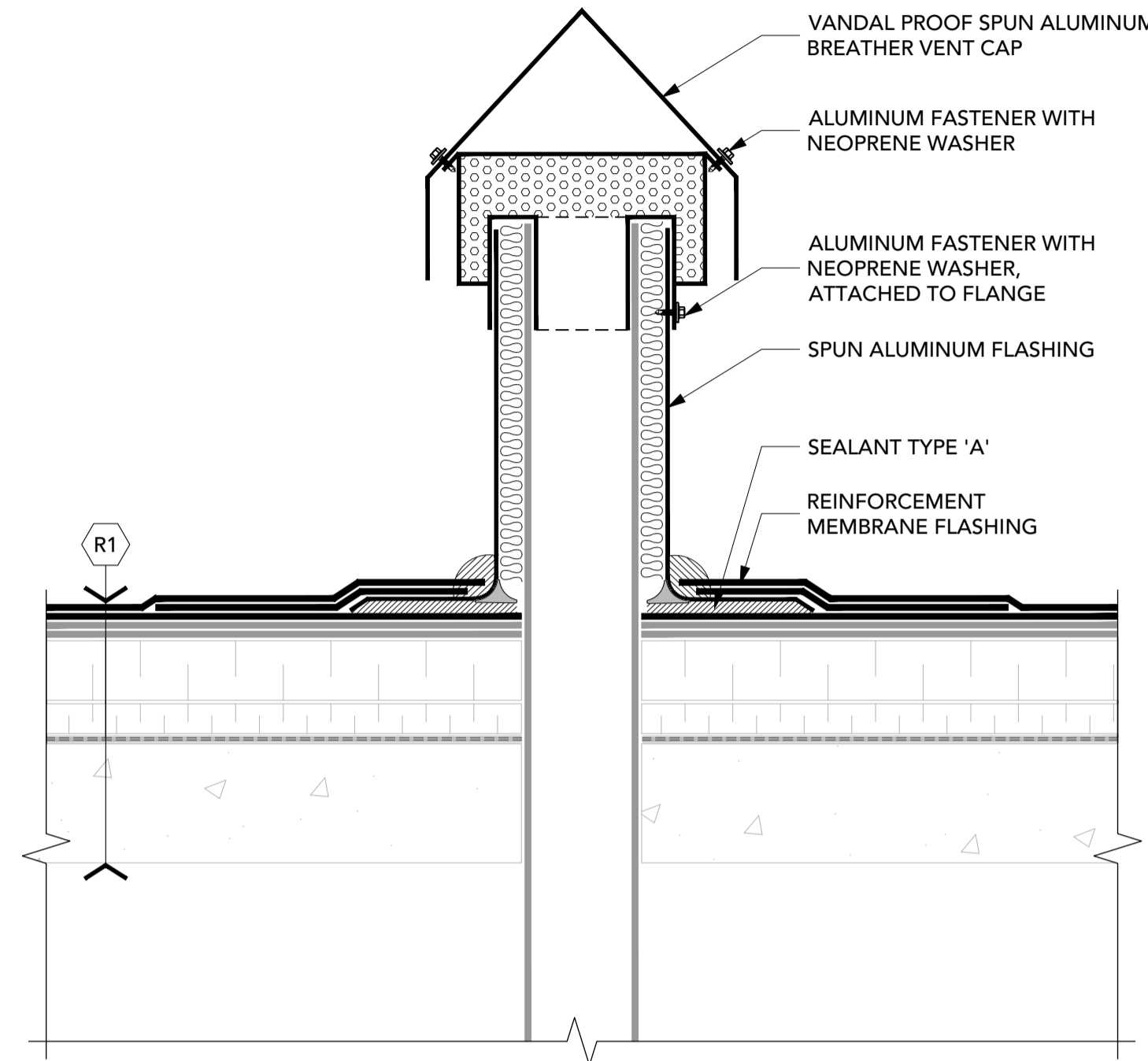




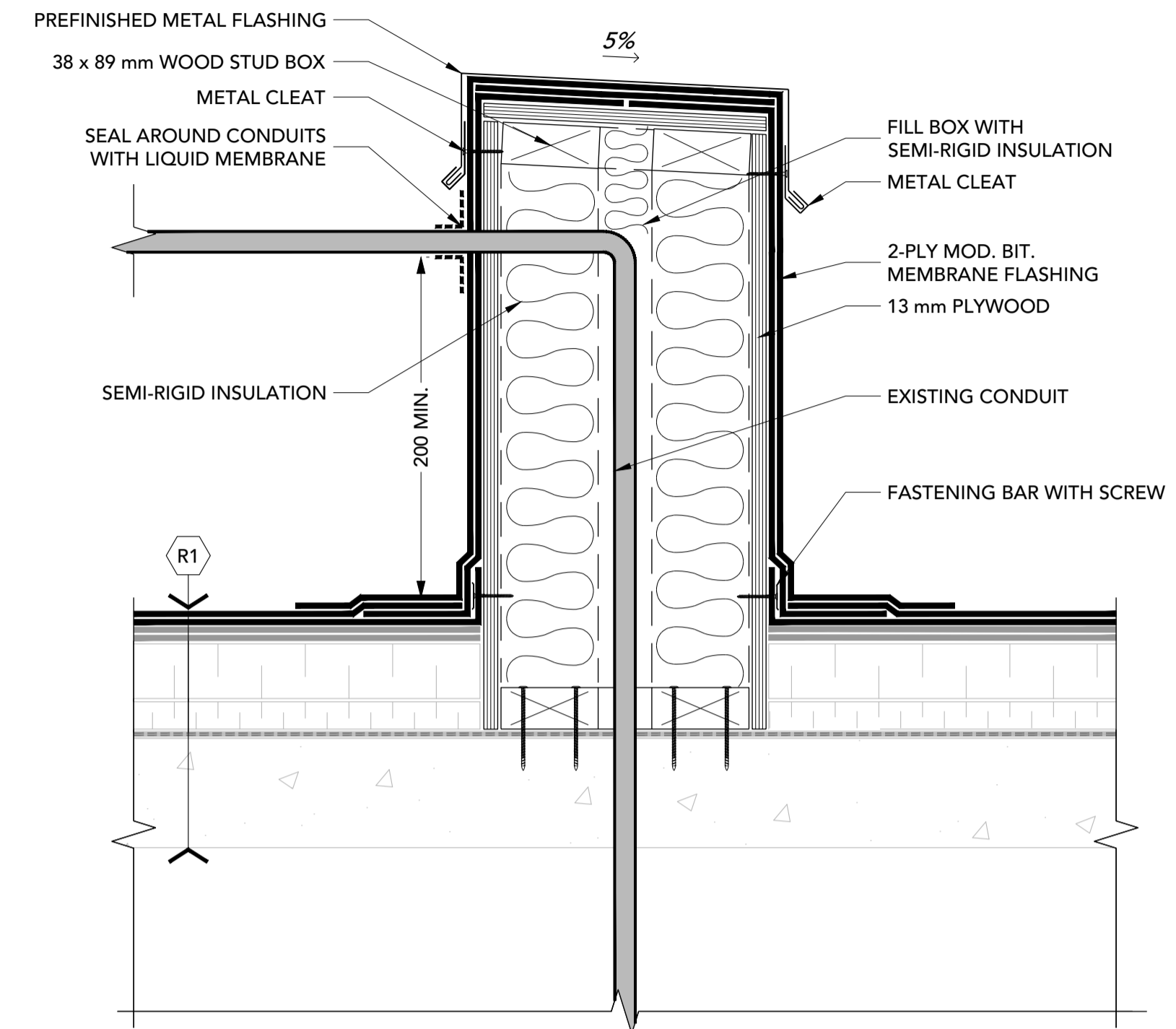
NOTE:  
 PRIME ALL SURFACES PRIOR TO  
 INSTALLING STRUCTURAL SEALANT.  
 DO NOT USE ROOF CEMENT.



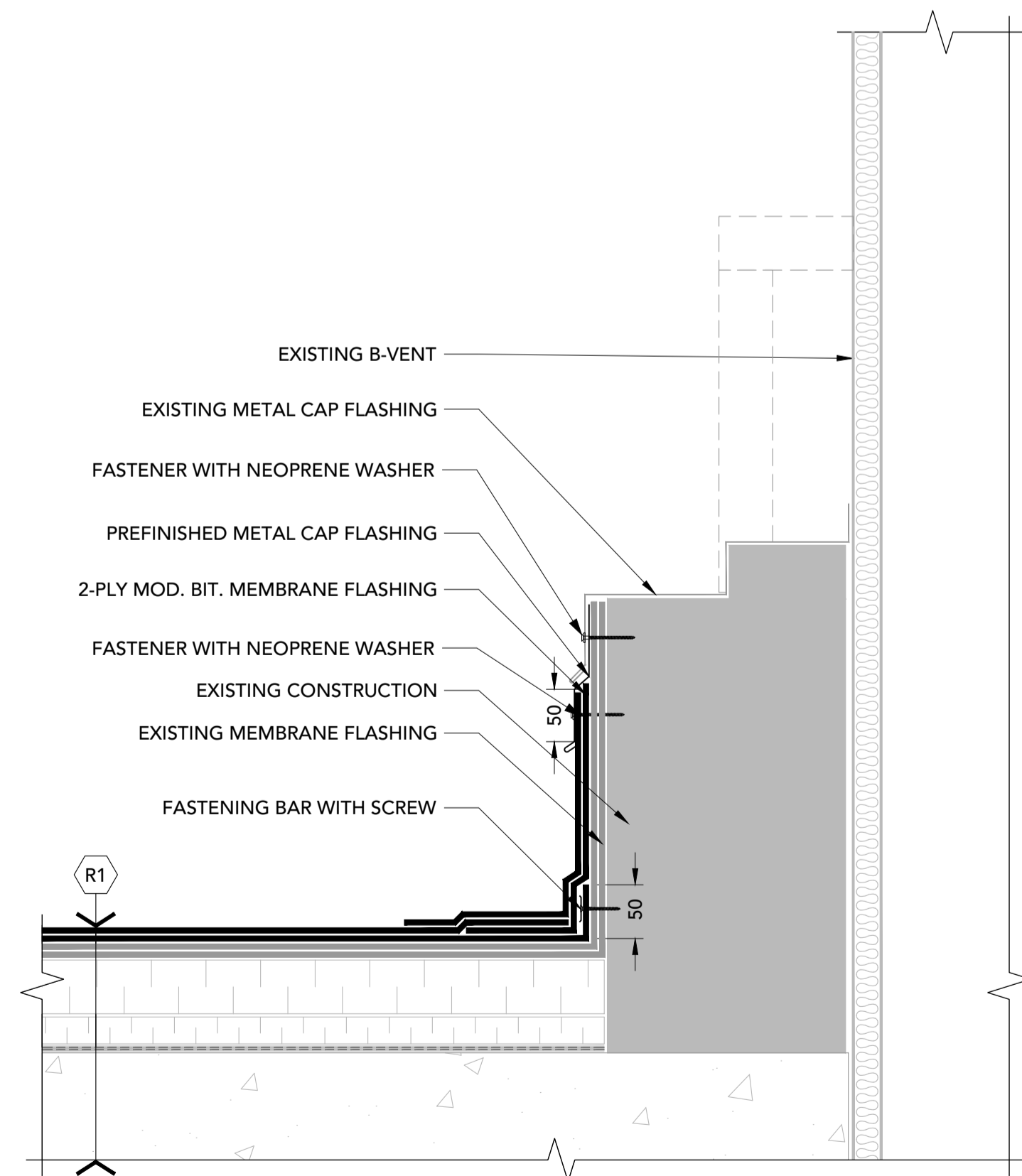
**24 SERVICE DETAIL**  
 R7 1:5



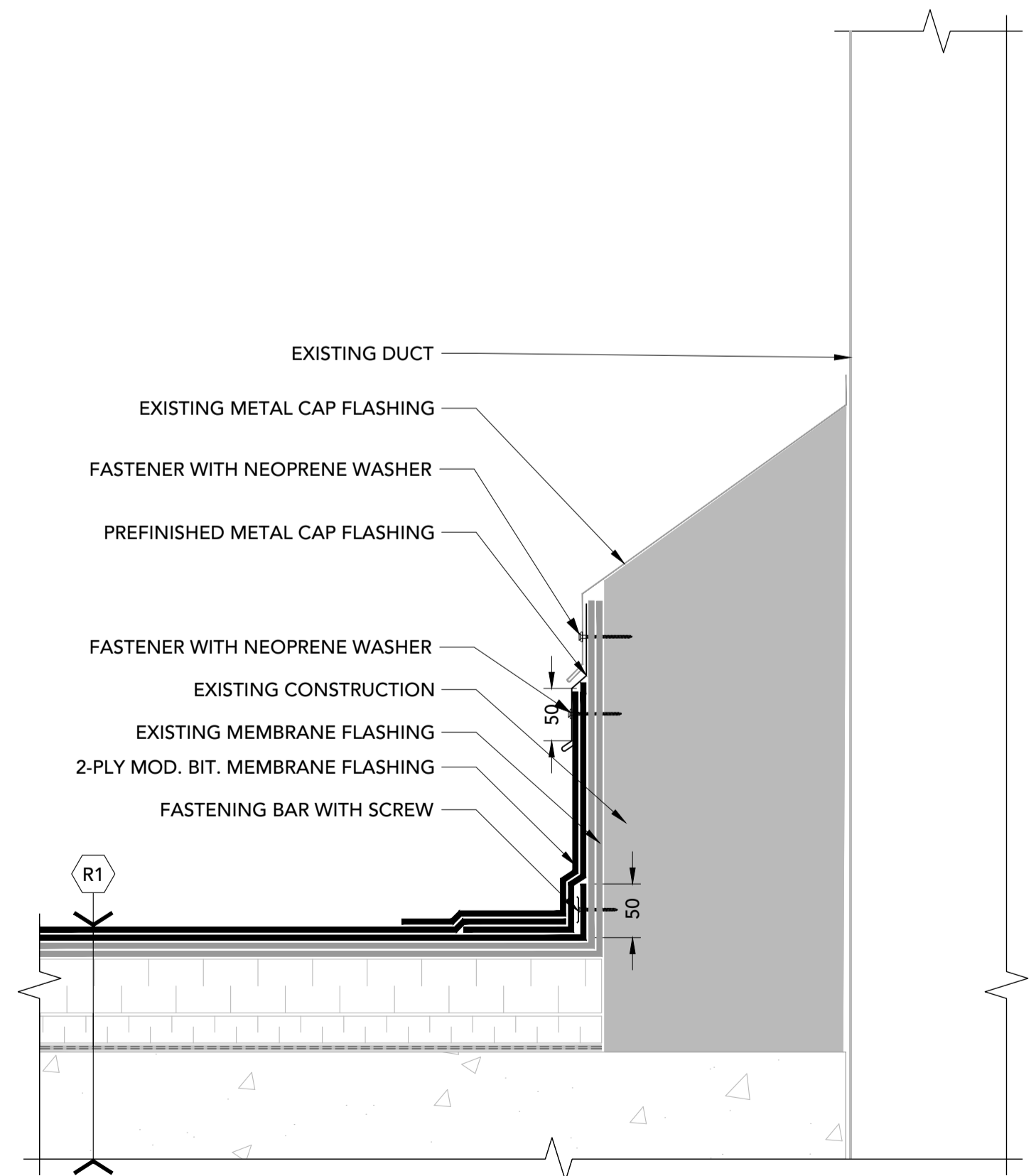
**25 PLUMBING VENT**  
 R7 1:5



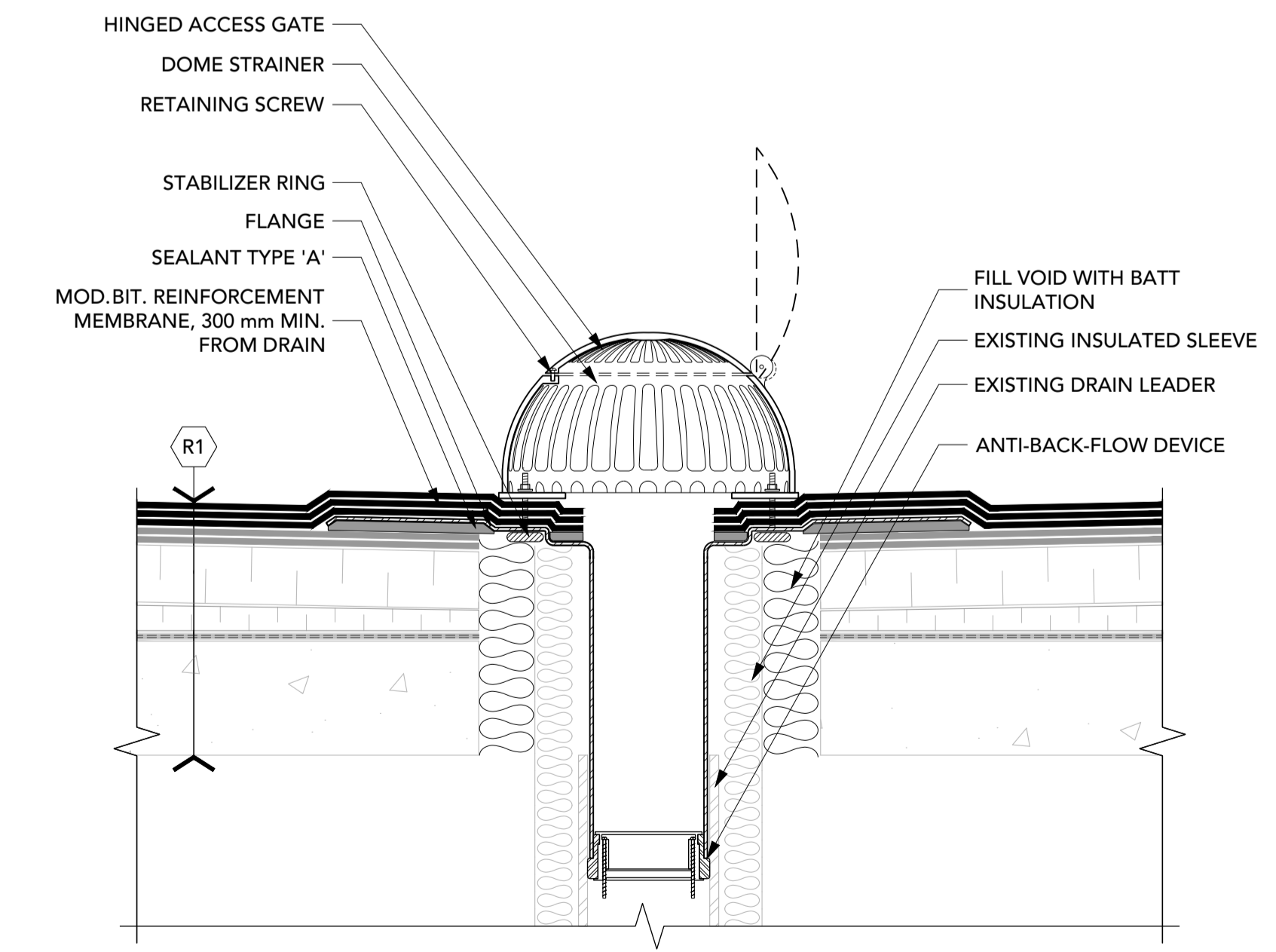
**26 PIPE ENCLOSURE**  
 R7 1:5



**27 CURBED B-VENT**  
 R7 1:5



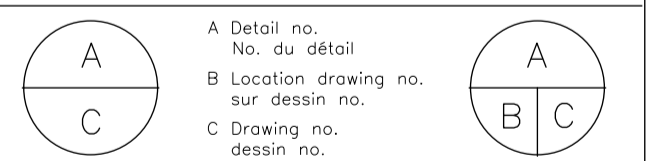
**28 DUCT EXIT**  
 R7 1:5



**29 ROOF DRAIN**  
 R7 1:5

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3. DRAWINGS ARE NOT TO BE SCALED.
4. ROOF AREAS ARE NOT TO BE TORCHED WITHIN 1.0 m OF WALL CONSTRUCTION.
5. PROVIDE OVERHEAD PROTECTION AT ALL DOORS.

o Verify all dimensions and site conditions and be responsible for same  
 o Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



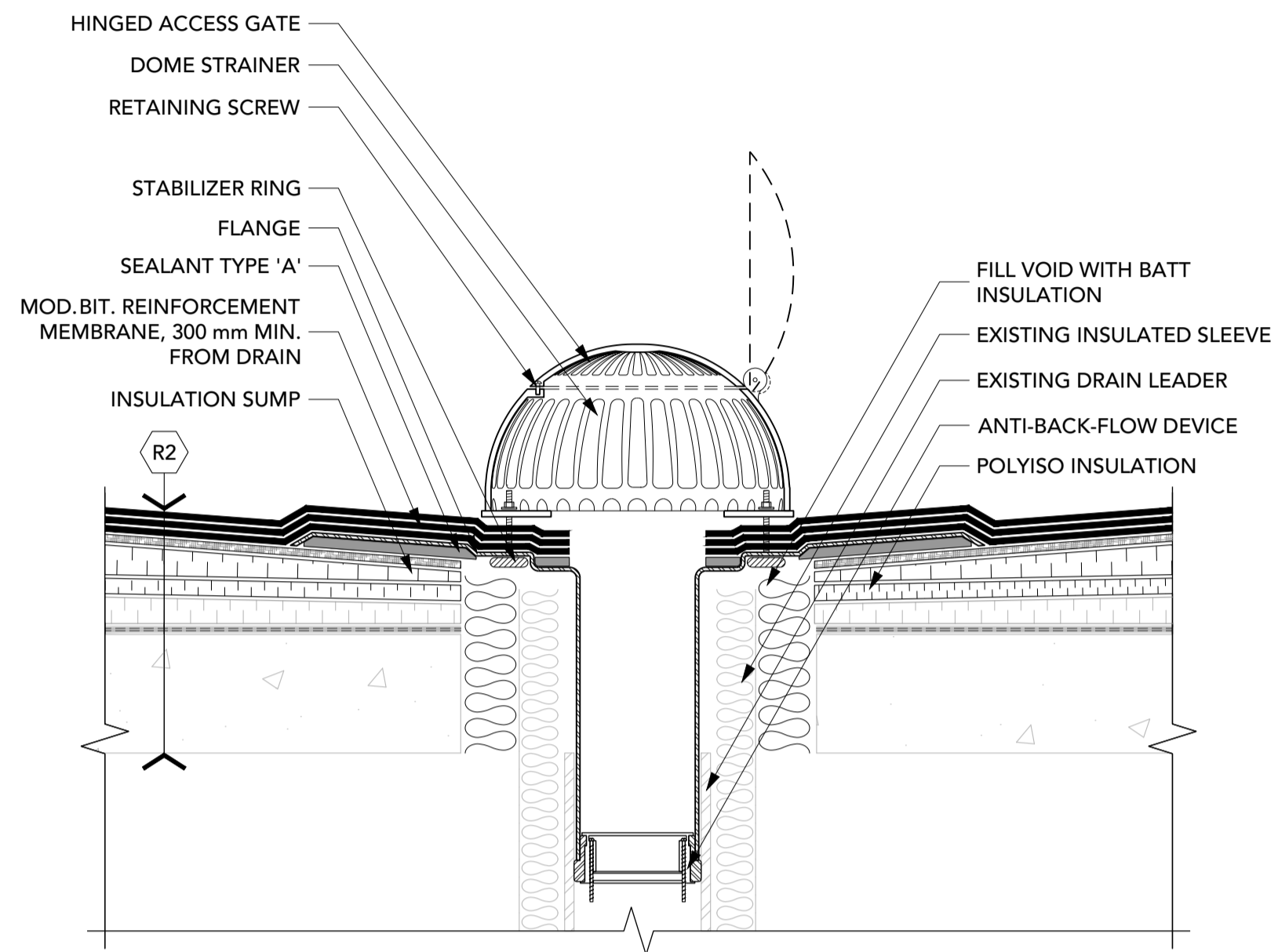
project  
**ROOF OVERLAY 2019**  
**BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8**  
**1920 RESEARCH PRIVATE, OTTAWA ON**

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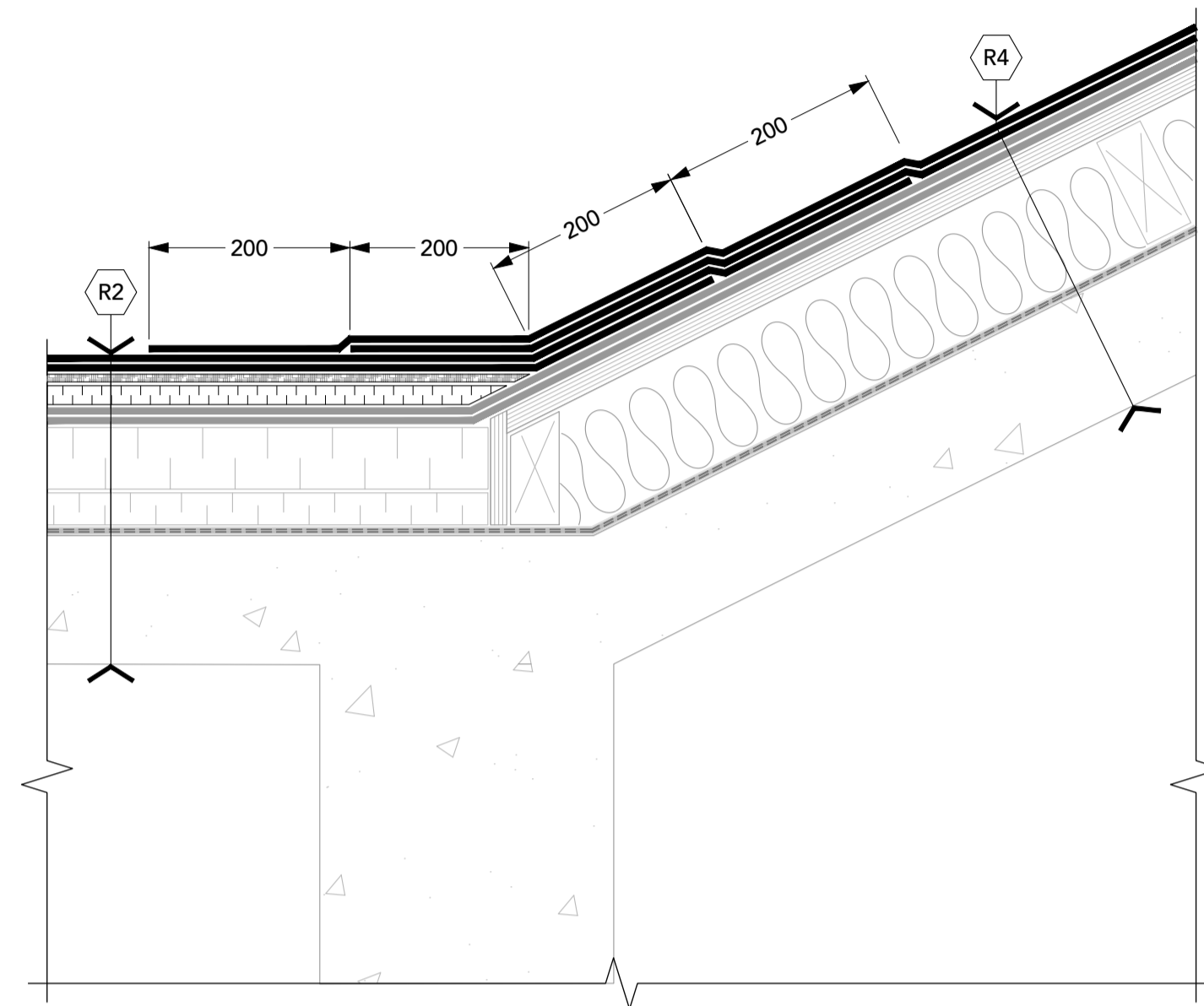
drawing  
**DETAILS**

designed <b>John Callender</b>	conçu	date <b>2019-02-11</b>	date
drawn <b>Roel Parker</b>	dessiné	scale <b>1:5</b>	échelle
checked <b>John Callender</b>	vérifié	sheet <b>7</b>	of/de <b>12</b>
approved	approuvé	W.O.no.	D.T.no.

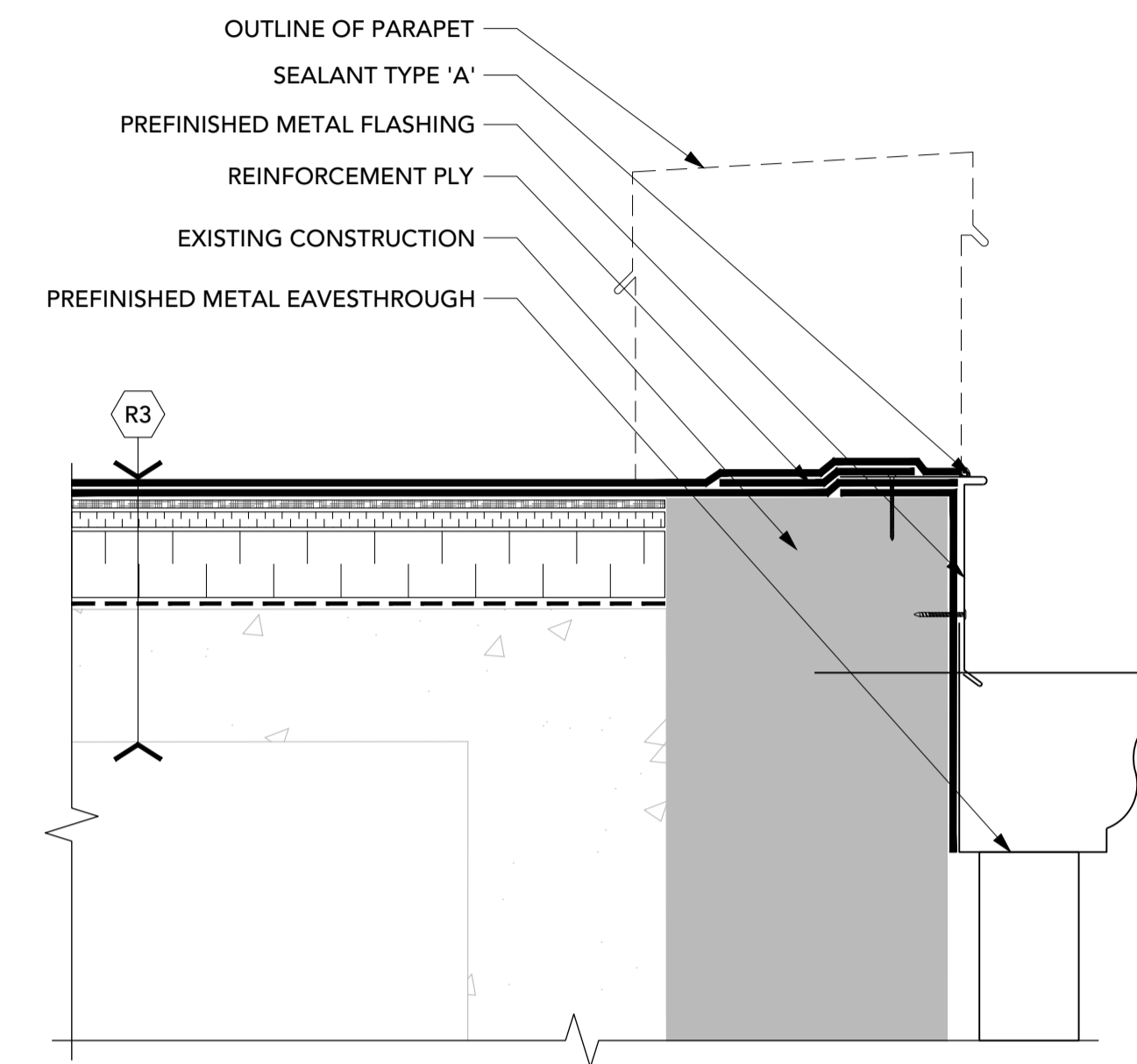
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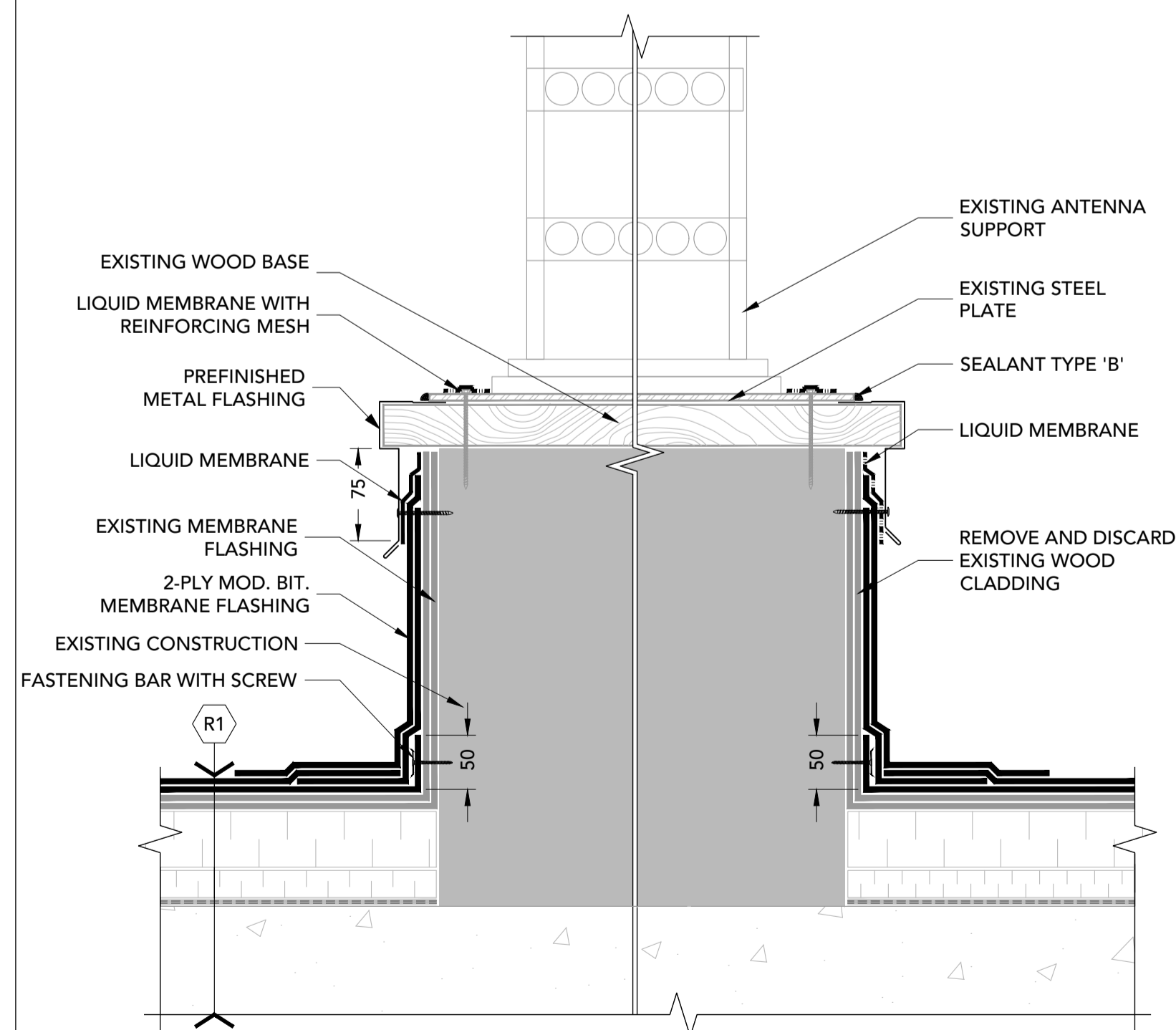
**30** ROOF DRAIN  
 R8 1:5



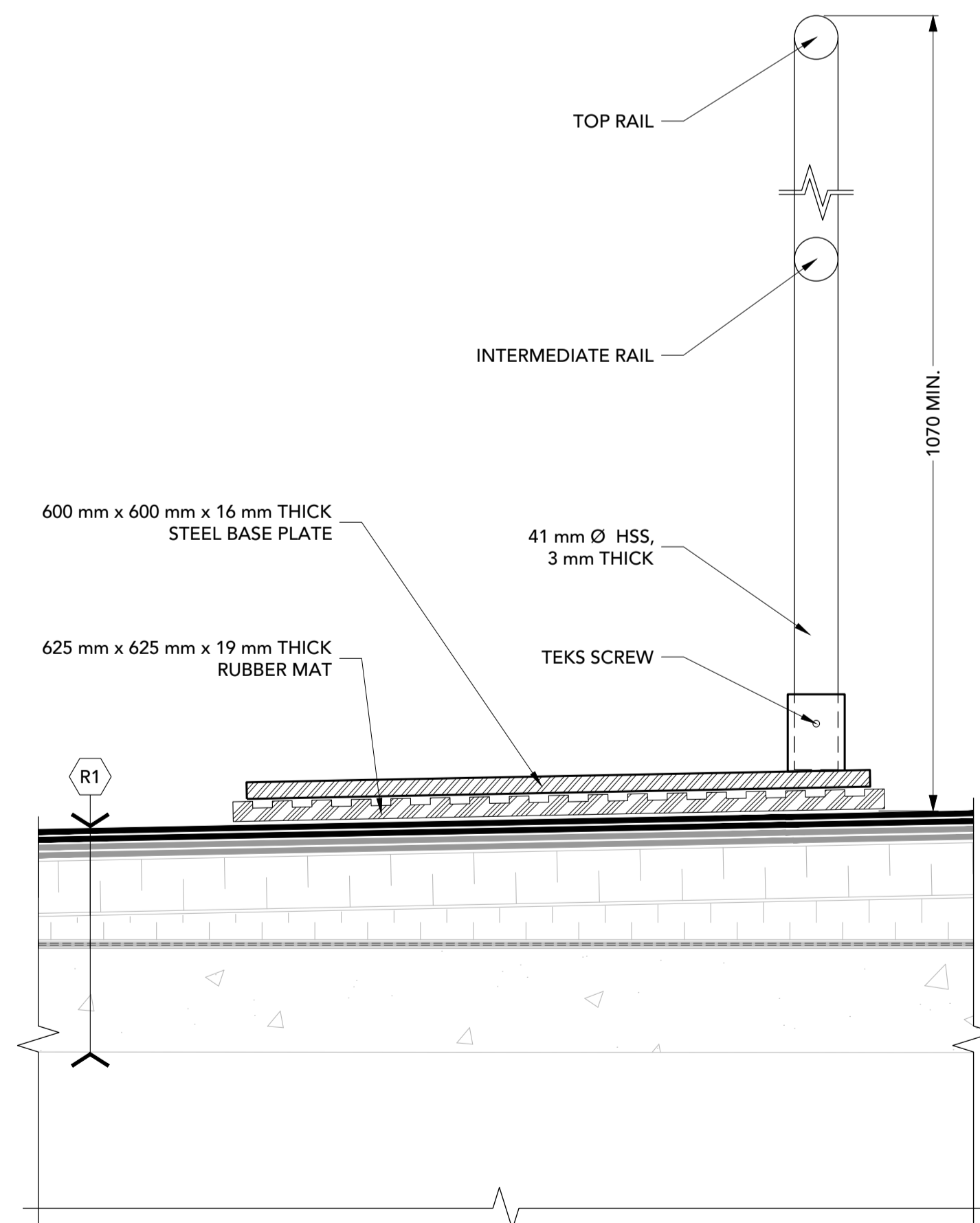
**31** ROOF TRANSITION  
 R8 1:5



**32** EAVESTHROUGH WITH DOWNSPOUT  
 R8 1:5

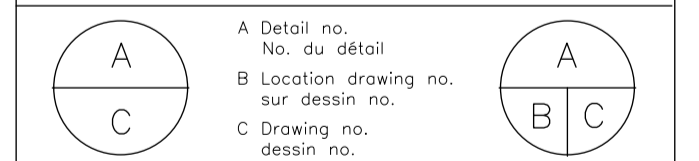


**33** ANTENNA SUPPORT CURB  
 R8 1:5



**34** BALLASTED GUARDRAIL  
 R8 1:5

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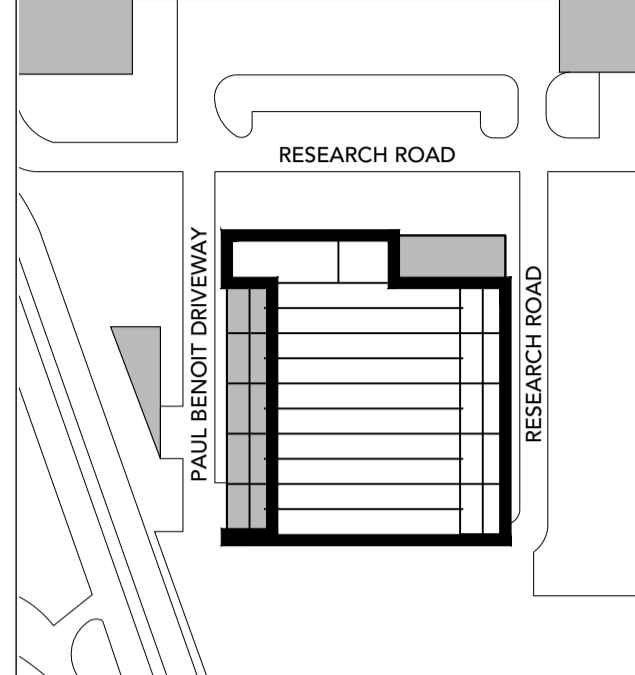
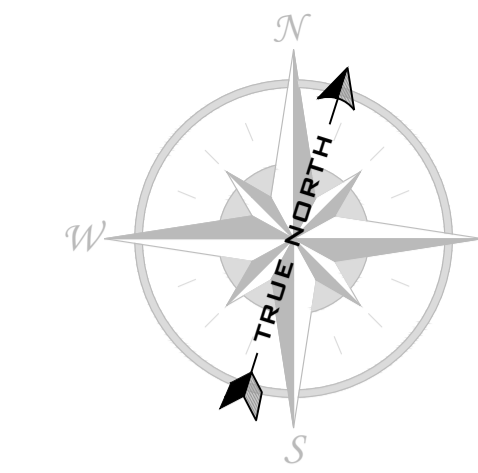
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drawing: **DETAILS**

designed <b>John Callender</b>	conçu	date <b>2019-02-11</b>	date
drawn <b>Roel Parker</b>	dessiné	scale <b>1:5</b>	échelle
checked <b>John Callender</b>	vérifié	sheet <b>8</b>	of/de <b>12</b>
approved	approuvé	W.O.no.	D.T.no.
dwg.no.			dessin no.

RESERVED



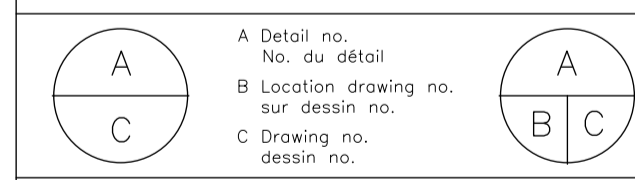


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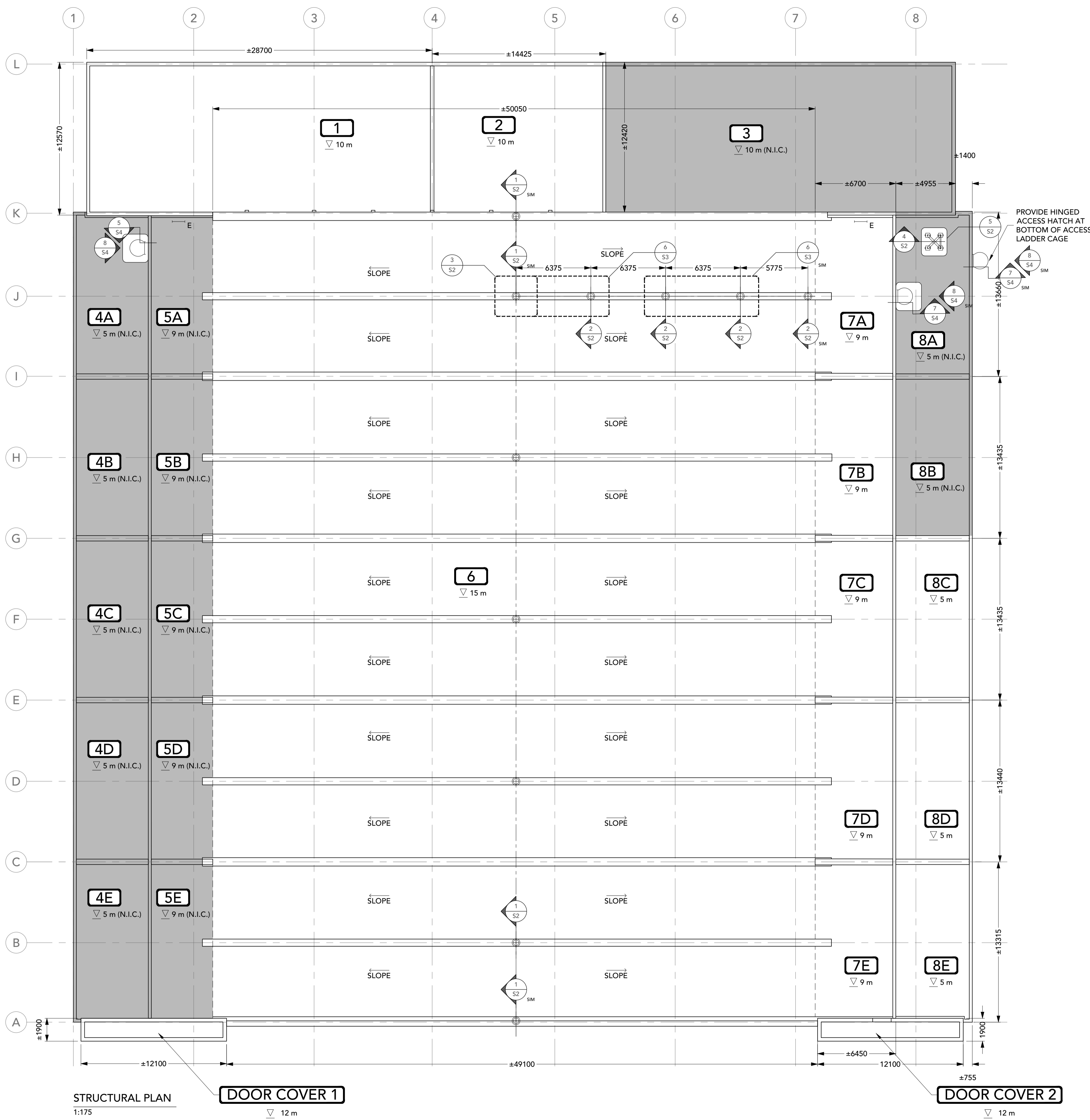


project  
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**STRUCTURAL PLAN**

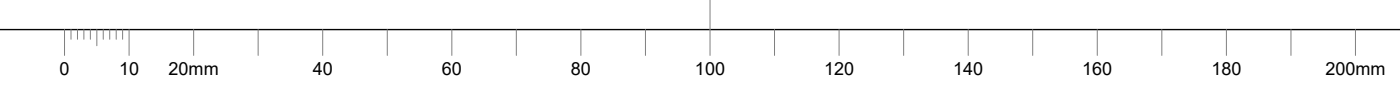
designed	conçu	date	date
Ramie Said		2019-02-11	
drawn	dessiné	scale	échelle
Dan Post		1:175	
checked	vérifié	sheet	feuille
Ramie Said		9 of/ de 12	
approved	approuvé	W.O.no.	D.T.no.
dwg.no.			dessin no.

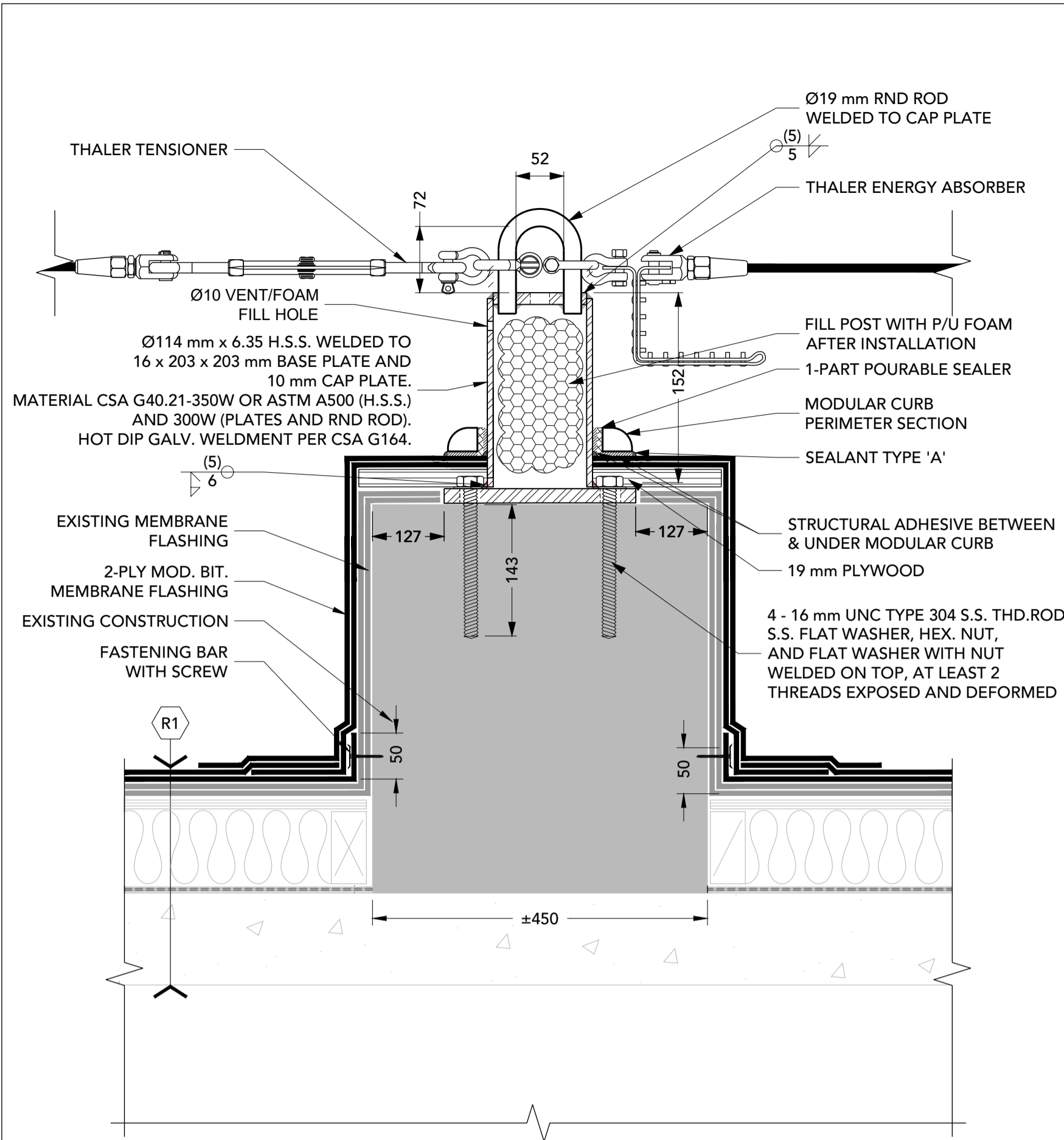


LEGEND	
SYMBOL	DESCRIPTION
---	TRAVEL RESTRAINT CABLE
⊙	PROPOSED ROOF ANCHOR
—	ROOF LADDER
⊙	ROOF LADDER WITH CAGE
XX	ROOF NUMBER AND ELEVATION
↙	STRUCTURAL SLOPE
— E	EXISTING ROOF LADDER
⊙ E	EXISTING ROOF LADDER WITH CAGE

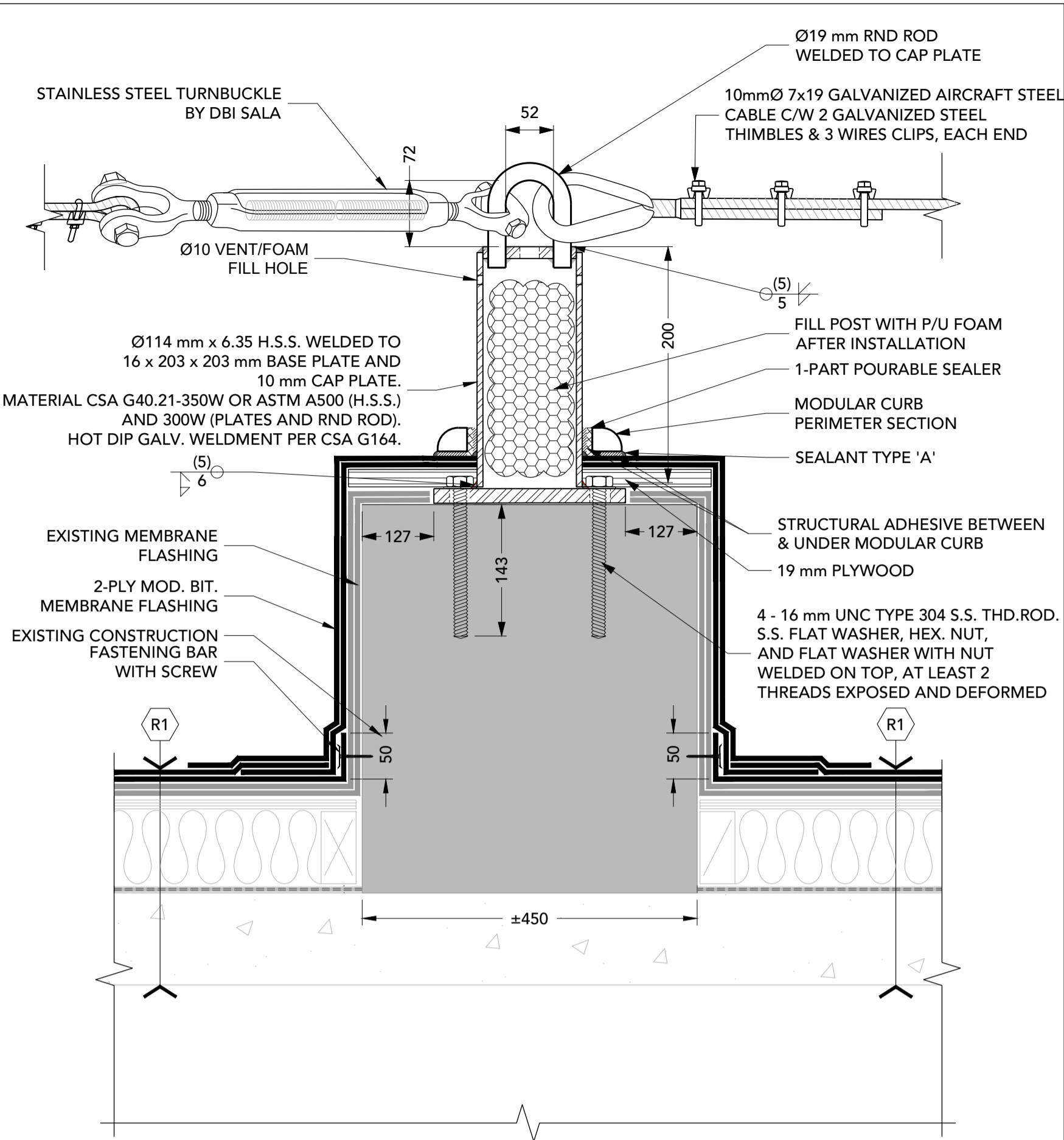
STRUCTURAL PLAN  
 1:175  
**DOOR COVER 1**  
 ∇ 12 m

**DOOR COVER 2**  
 ∇ 12 m

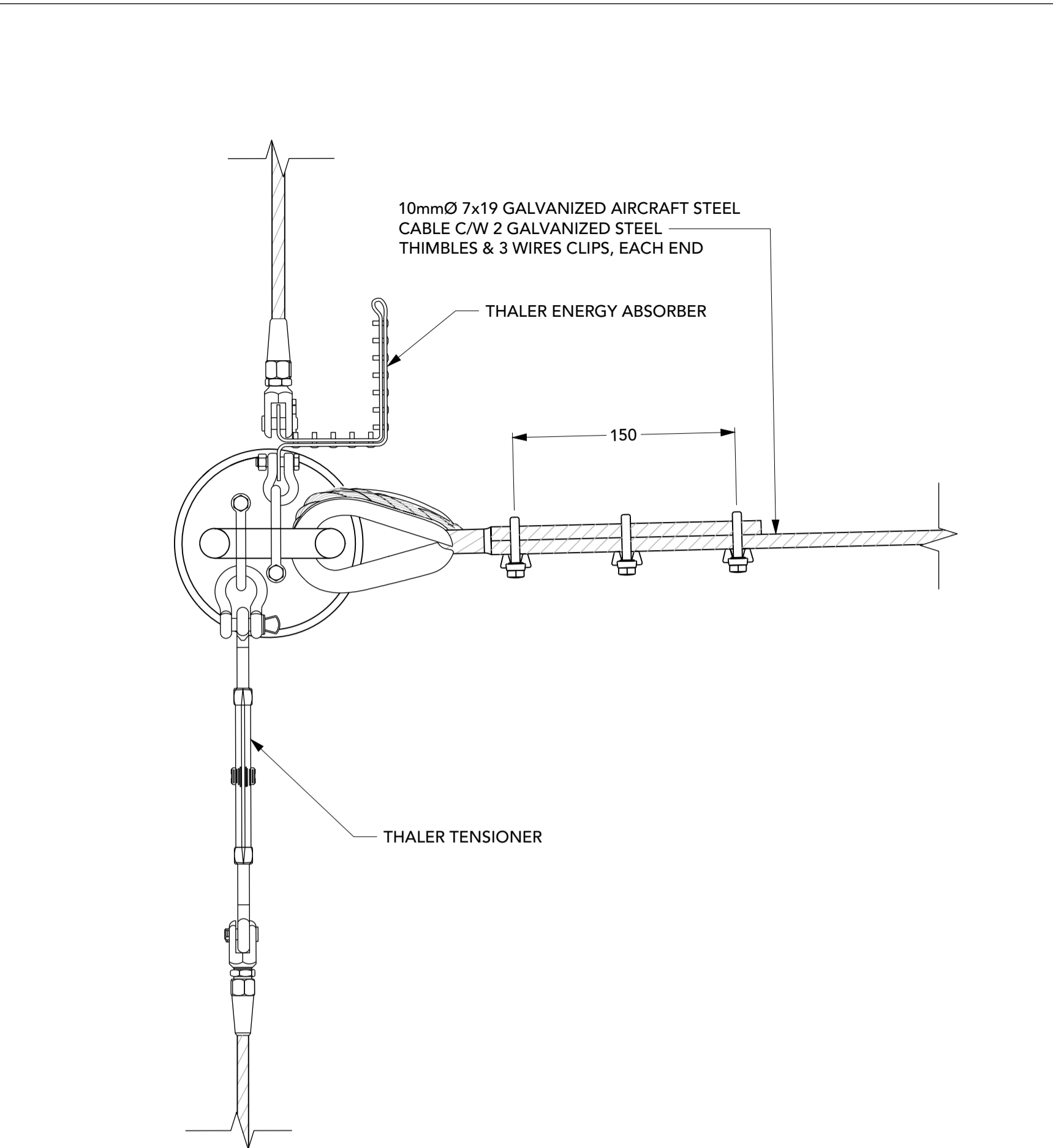




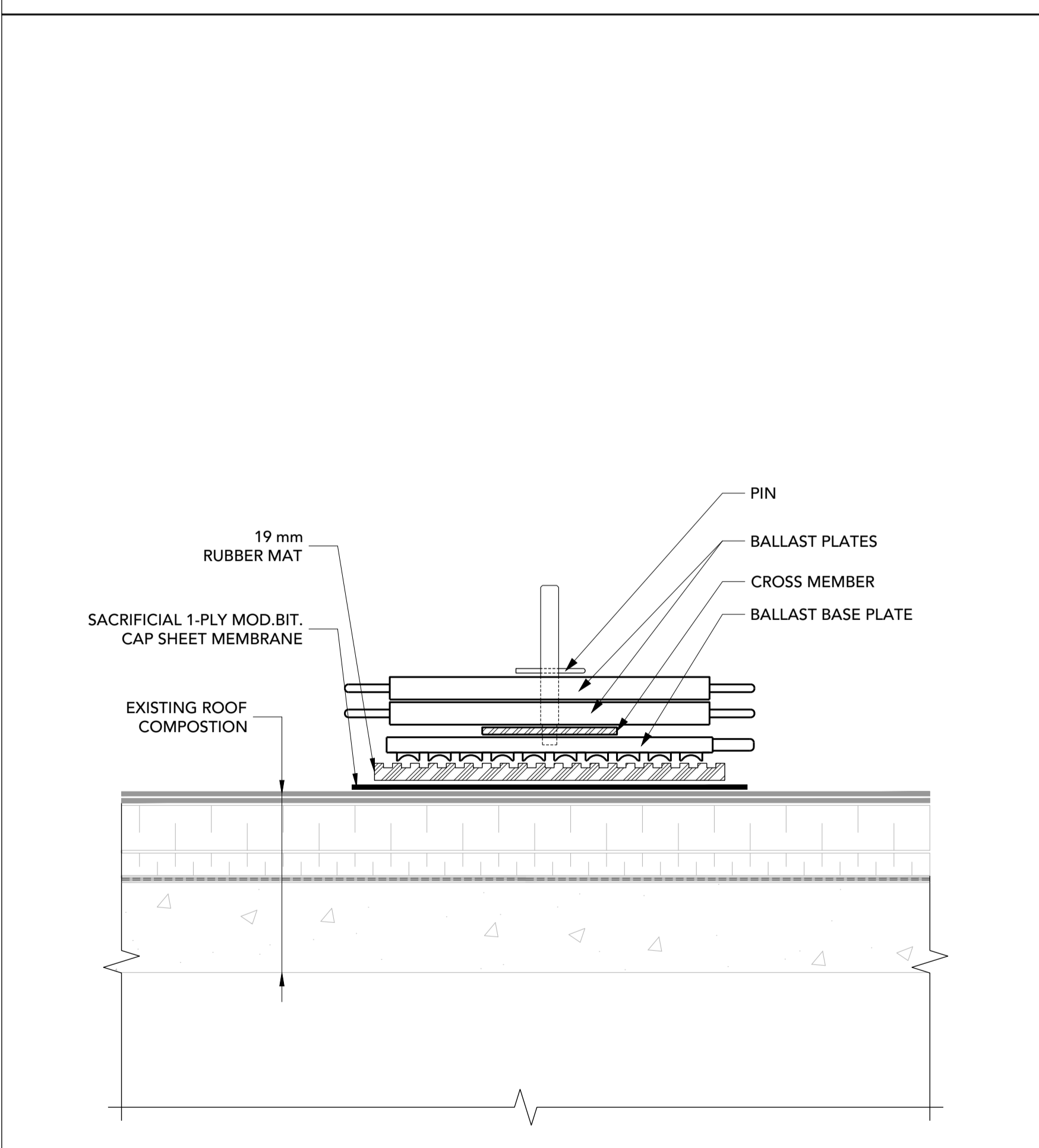
1 ROOF ANCHOR  
S2 1:5



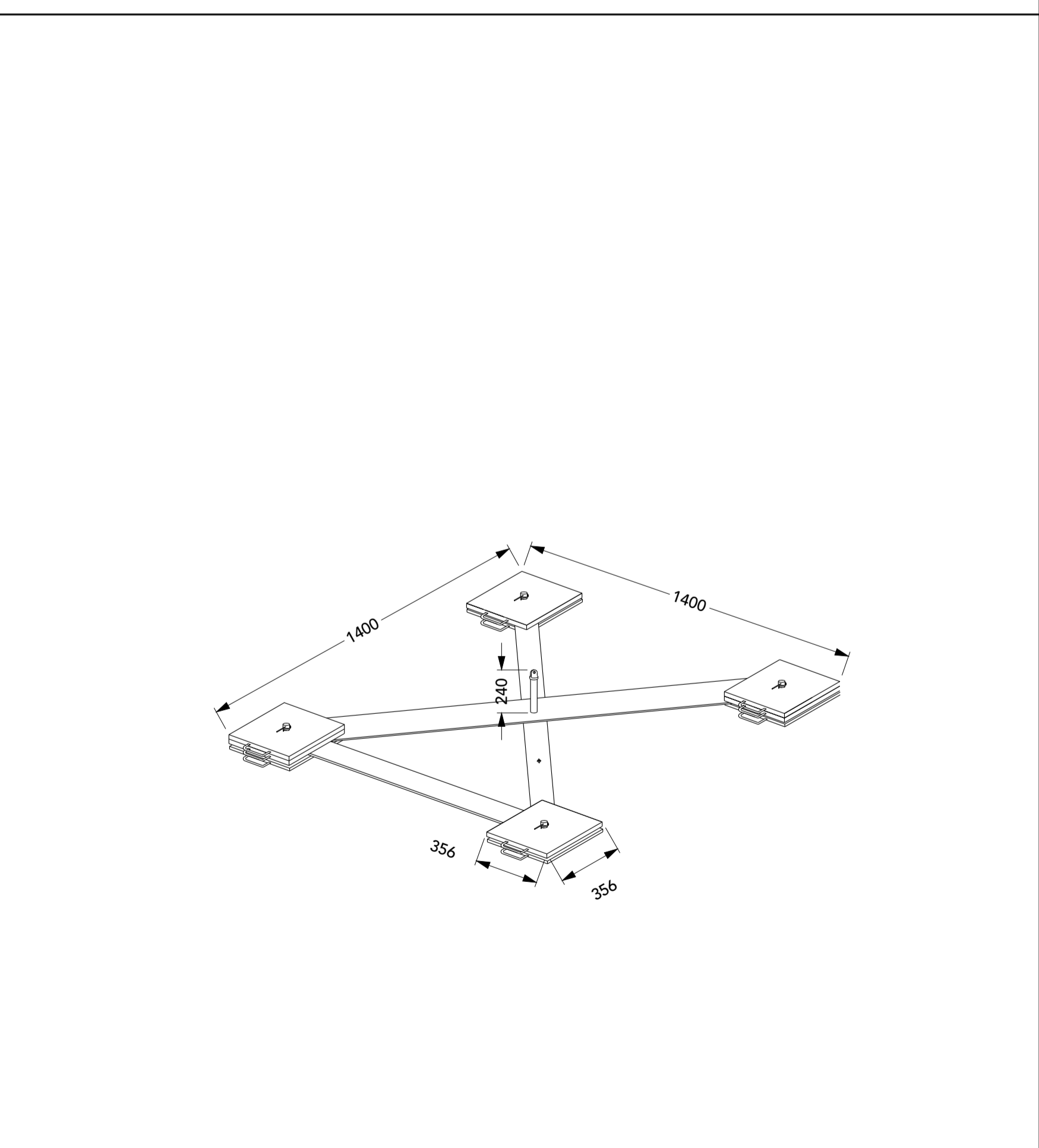
2 ROOF ANCHOR  
S2 1:5



3 CABLE TERMINATION  
S2 1:5



4 BALLAST ASSEMBLY  
S2 1:5



5 BALLASTED TRAVEL RESTRAINT ANCHOR ASSEMBLY  
S2 1:25

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A	A
C	B/C

project / projet  
ROOF OVERLAY 2019  
BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8  
1920 RESEARCH PRIVATE, OTTAWA ON

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drawing / dessin  
DETAILS

designed / conçu	date	date
Ramie Said	2019-02-11	
drawn / dessiné	scale	échelle
Dan Post	1:5	
checked / vérifié	sheet / feuille	of / de
Ramie Said	10	12
approved / approuvé	W.O. no.	D.T. no.
dwg. no.	dessin no.	

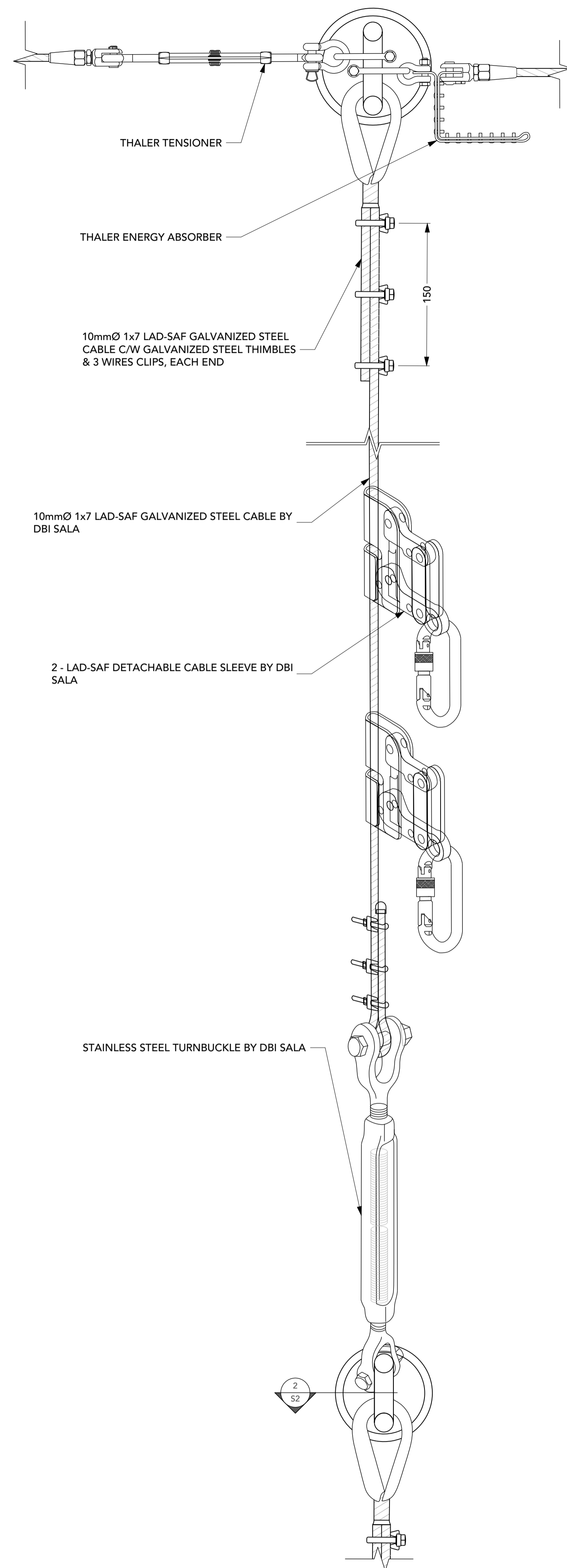
RESERVED



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RESERVED

RESERVED




**6** STATIC LINE TYPICAL DETAIL (4x)  
 S3 1:5

RESERVED

RESERVED



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A	A
B	B
C	C

project **ROOF OVERLAY 2019** projet  
**BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8**  
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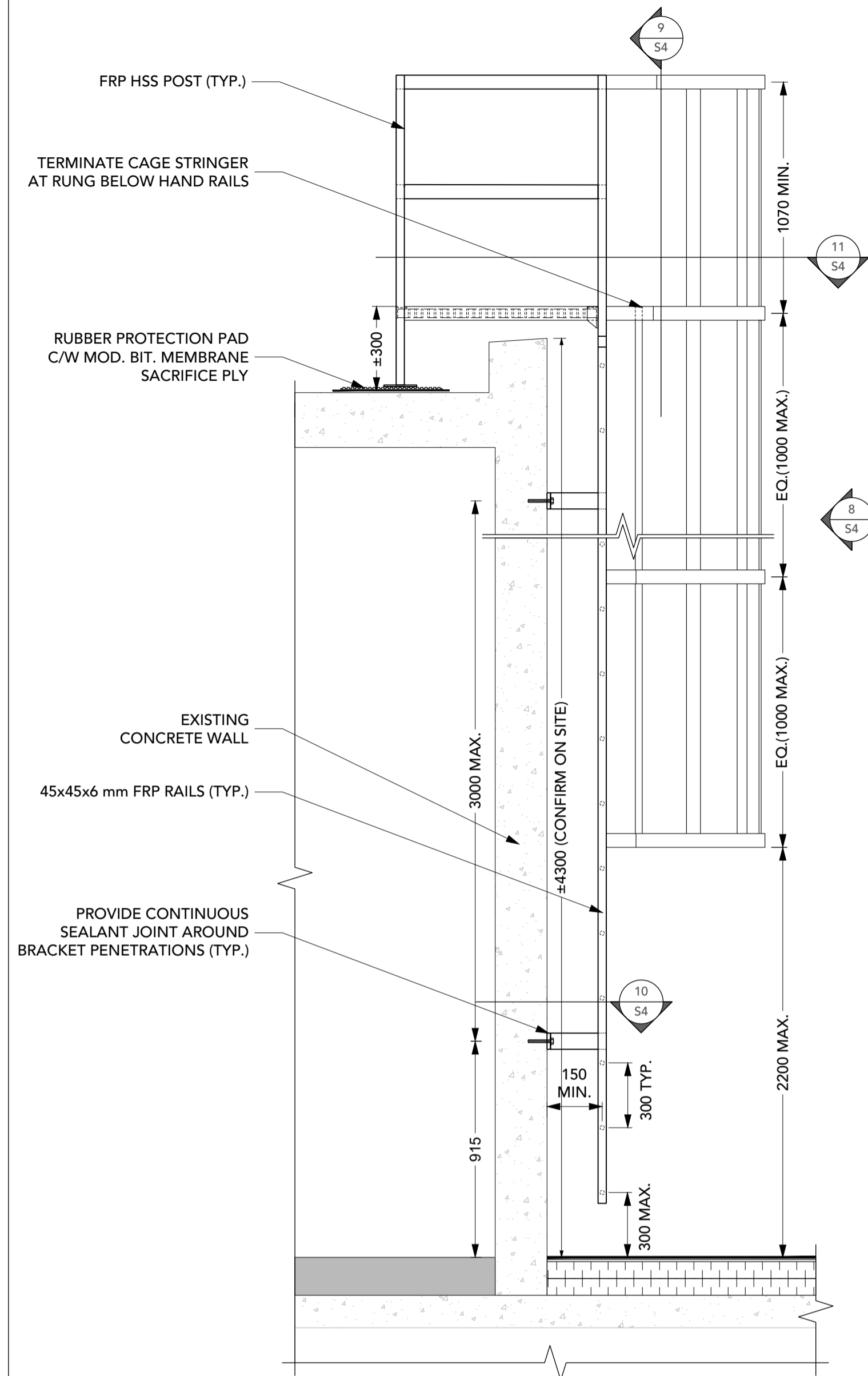
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drawing **DETAILS** dessin

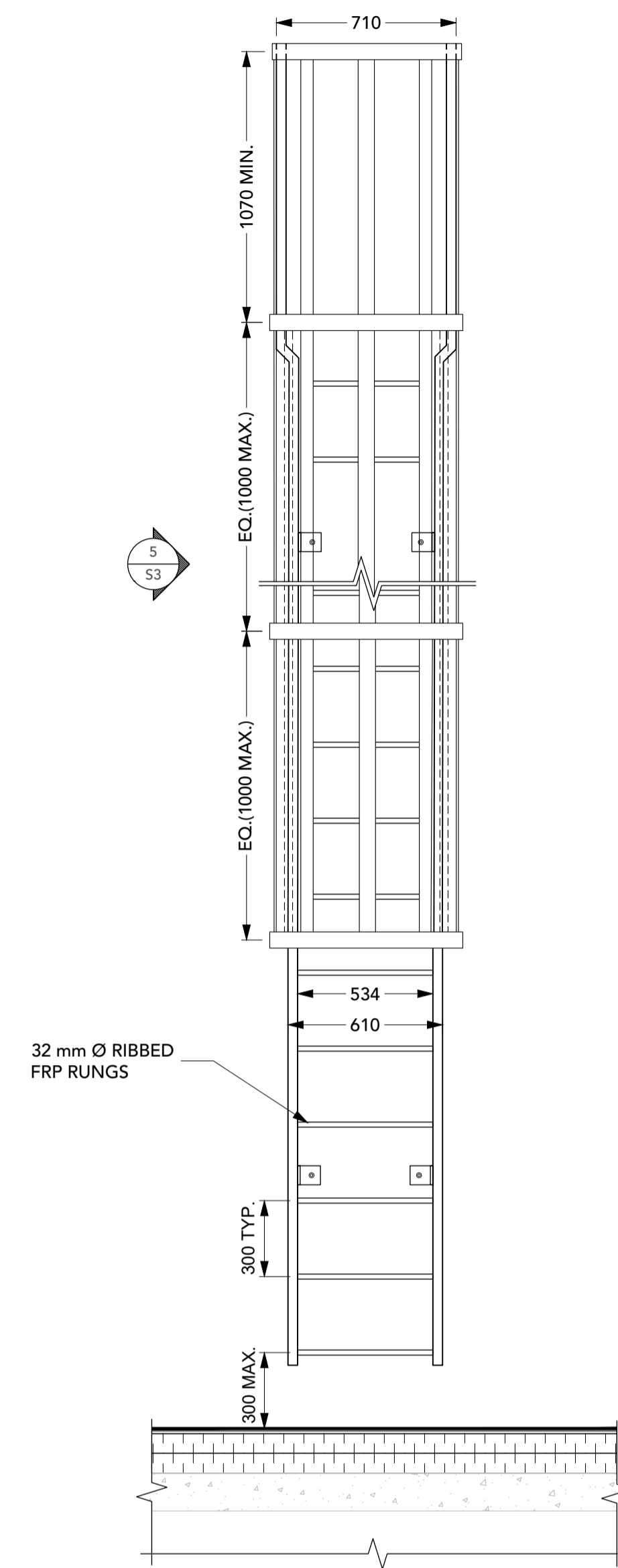
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<b>Ramie Said</b>		<b>2019-02-11</b>	
drawn	dessiné	scale	échelle
<b>Dan Post</b>		<b>1:5</b>	
checked	vérifié	sheet	feuille
<b>Ramie Said</b>		<b>11</b>	<b>of/de 12</b>
approved	approuvé	W.O.no.	D.T.no.
dwg.no.			dessin no.

**5676 - S3**

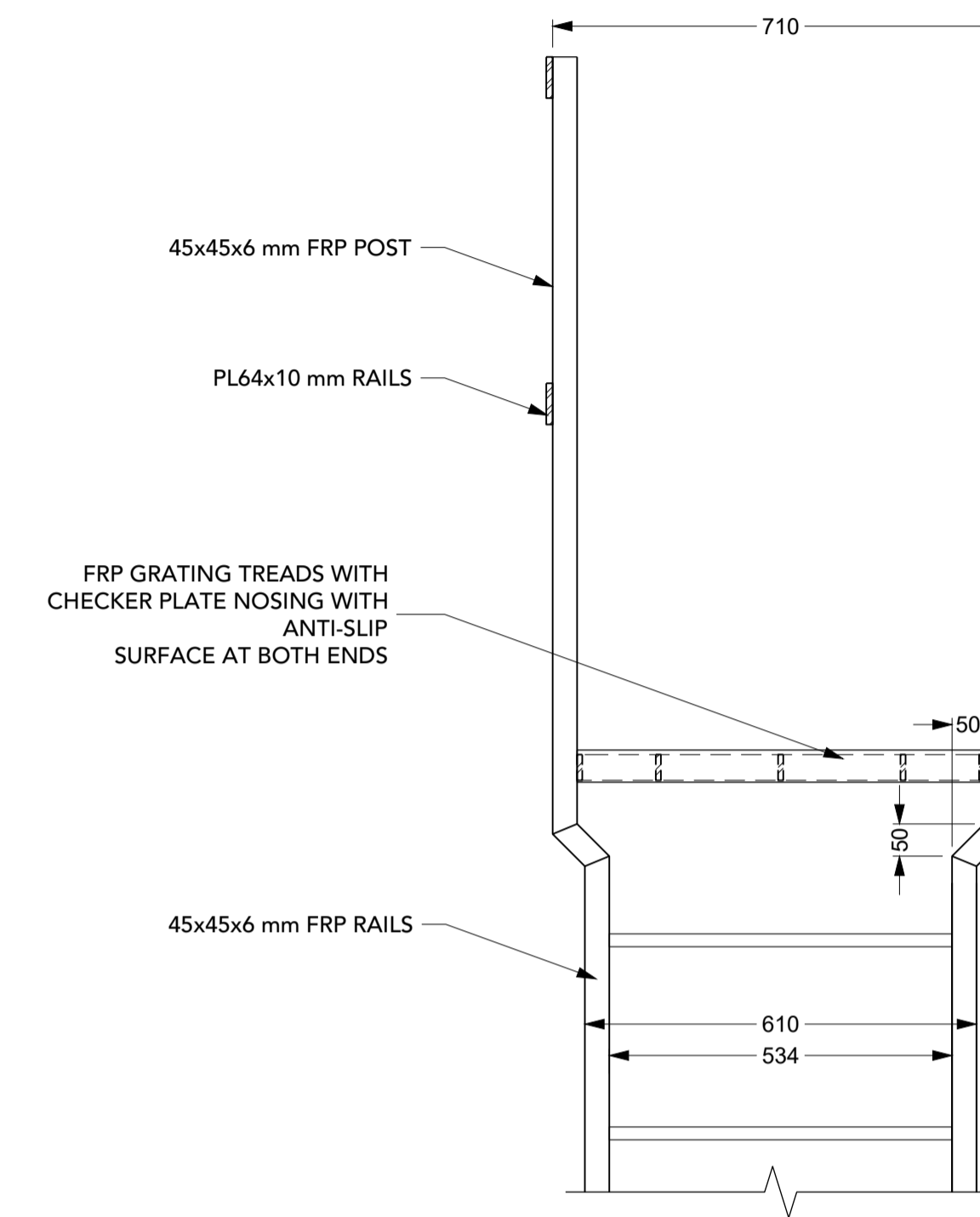
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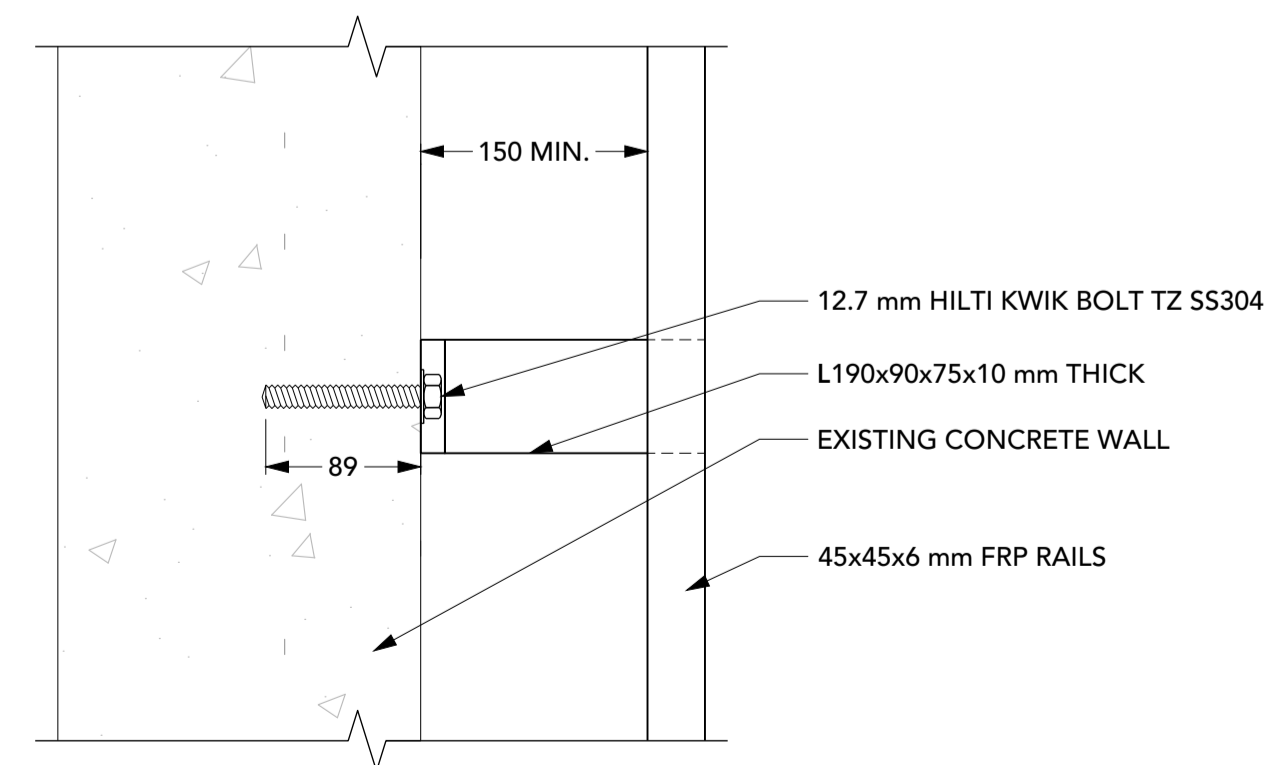
**7** ACCESS LADDER WITH CAGE  
 S4 1:20 SIDE ELEVATION



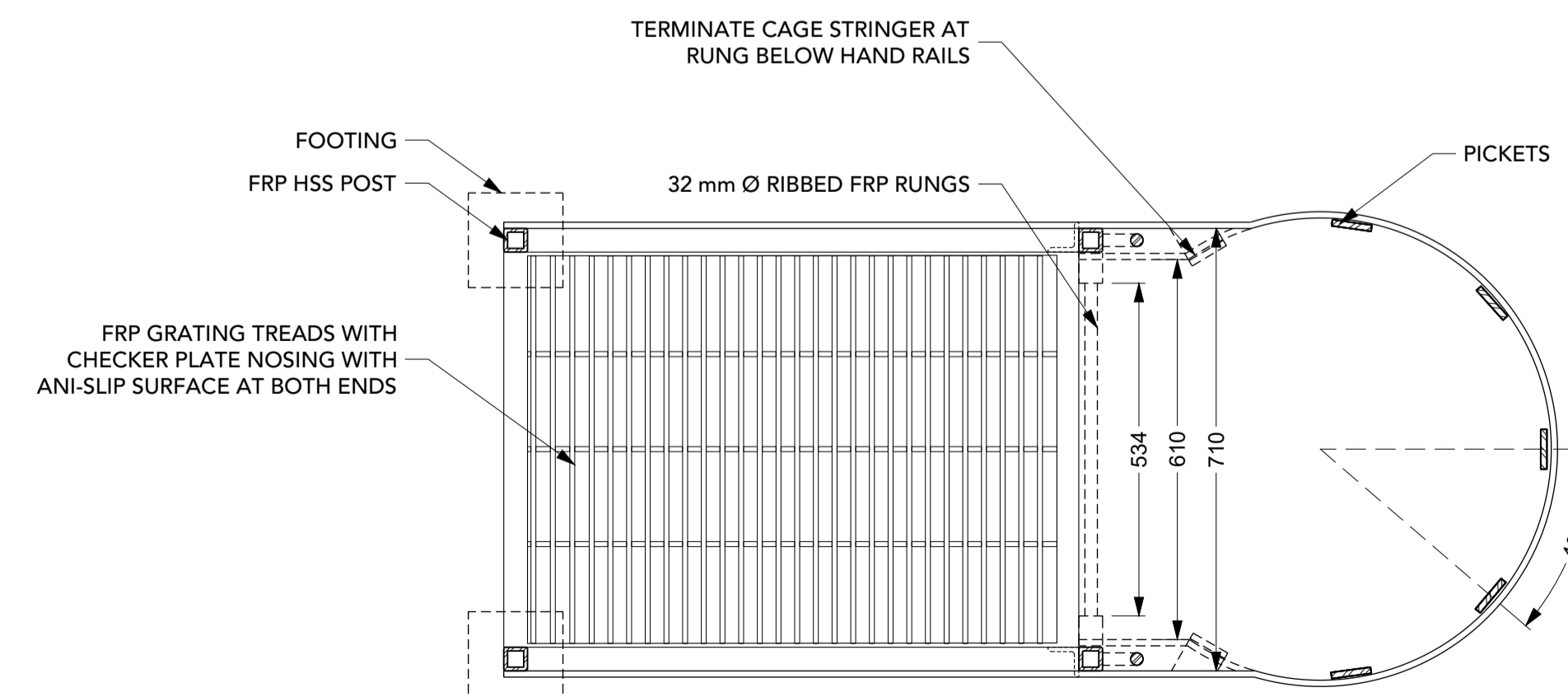
**8** ACCESS LADDER WITH CAGE  
 S4 1:20 FRONT ELEVATION



**9** ACCESS LADDER WITH CAGE  
 S4 1:10 SECTION



**10** BRACKET  
 S4 1:5 SECTION



**11** ACCESS LADDER WITH CAGE  
 S4 1:10 PLAN



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A	A
C	B/C

project: ROOF OVERLAY 2019  
 BUILDING U-61, ROOF AREAS 1, 2, 6, 7, 8  
 1920 RESEARCH PRIVATE, OTTAWA ON

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drawing: DETAILS

designed	conçu	date	date
Ramie Said		2019-02-11	
drawn	dessiné	scale	échelle
Dan Post		VARIES	
checked	vérifié	sheet	feuille
Ramie Said		12 of/ de 12	
approved	approuvé	W.O. no.	D.T. no.
dwg. no.		dessin no.	

5676 - S4