



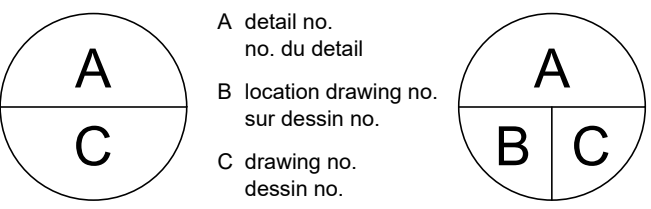
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- A1.2 - ADDITIONAL SITE PLAN
- A1.3 - WEST ENTRANCE WALKWAY FLOOR PLAN
- A1.4 - WEST ENTRANCE WALKWAY DETAILS
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- A3 - EXTERIOR ELEVATIONS (NORTH)
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- A5.1 - SECTION DETAIL
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revisions	description	date
8	ISSUED FOR TENDER	09/06/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	99% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018



project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	
drawing	dessin
TABLE OF CONTENTS	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender	Soumission	
Project Manager	Administrateur de projets	
Project no.	No. du projet	
R.065220.541		
Drawing no.	No. du dessin	



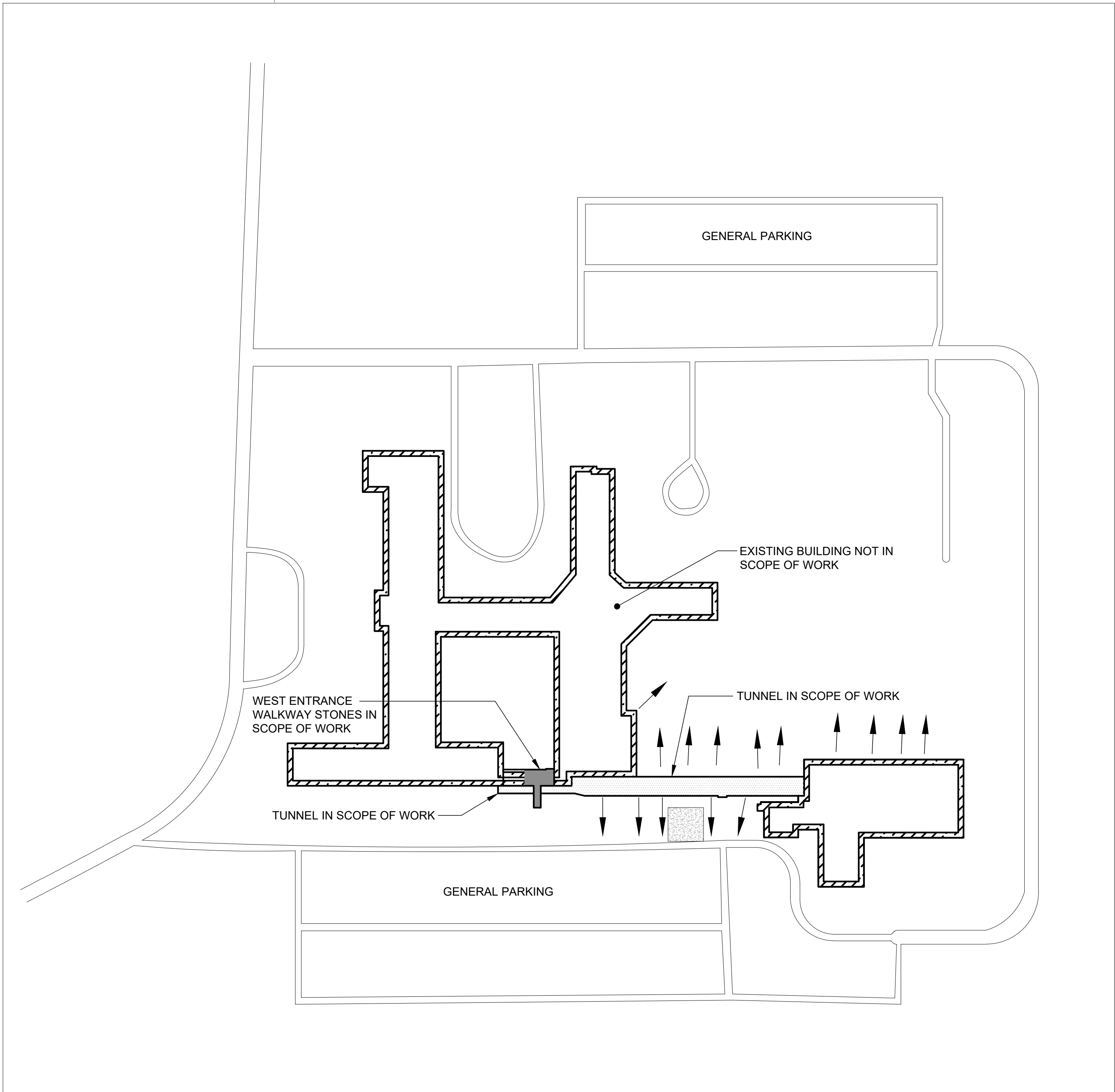
SCOPE OF WORK

INTERIOR

1. REPLACE INTERIOR EXPANSION JOINT WITHIN THE TUNNEL SERVICE AT AREAS NOTED BELOW.  
A) FLOOR.
2. REMOVE SEALANT APPLIED AT JOINTS (WALLS AND CEILING), AS WELL AS RESIDUES. CLEAN SURFACES AND PREPARE FOR NEW BACKER ROD AND SEALANT APPLICATION.

EXTERIOR

1. REPLACE ALL CEILING AND WALL EXPANSION JOINTS FROM EXTERIOR OF THE SERVICE TUNNEL.
  - EXCAVATE FROM EXTERIOR OF TUNNEL ON ALL SIDES TO EXPOSE EXISTING EXPANSION JOINTS.
  - SEE DRAWINGS TO LOCATE EXPANSION JOINTS.
  - CONTRACTOR TO PERFORM ALL LOCATES (PRIVATE AND PUBLIC)
2. REHABILITATE EXISTING CONCRETE STONES AT THE WEST ENTRANCE WALKWAY.
  - REMOVE EXISTING CONCRETE STONES AT THE WEST ENTRANCE WALKWAY, INCLUDING UNDERLYING AGGREGATES TO EXPOSE THE TUNNEL'S CONCRETE SLAB (ADJACENT TO EXPANSION JOINT #4 - DETAIL T3-T3 ON DRAWING A5.2).
  - CONTRACTOR IS TO PREPARE EXPOSED CONCRETE SURFACE FOR THE INSTALLATION OF NEW WATERPROOFING ON THE ENTIRE HORIZONTAL SURFACE.
  - THE WATERPROOFING OF THE VERTICAL EXPANSION JOINT (#4) WILL BE PERFORMED FROM THE INTERIOR OF THE TUNNEL.
  - INSTALL NEW DRAINAGE PANEL.
  - RE-INSTALE NEW CRUSH STONE TO ACCOMMODATE FOR PROPER SLOPING AND FOR THE NEW CONCRETE WALKWAY STONES (TO MATCH EXISTING).
  - THE NEW CONCRETE WALKWAY STONES ARE TO BE PREFABRICATED AND INSTALLED ON SITE.
  - THE CONCRETE WALKWAY LEADING TO THE WEST ENTRANCE WALKWAY ARE TO HAVE TARGETED FILLING OF DAMAGED JOINTS WITH CONCRETE.
  - THE METAL FLASHING OF THE COLUMNS WITHIN THE AREA OF THE NEW WEST ENTRANCE WALKWAY IS TO BE REPLACED AS PER EXISTING.
  - TARGETED BRICK CLEANING IS TO BE PERFORMED AT THE BOTTOM CORNERS OF THE DOUBLE DOOR AT THE WEST ENTRANCE.
3. RE-GRADE SURFACE LANDSCAPE 2% AWAY FROM BUILDING AT FOLLOWING LOCATIONS;
  - NORTH OF TUNNEL;
  - SOUTH OF TUNNEL (ADJACENT TO EXPOSED WALKWAY).
4. REPLACE EXTERIOR EXPANSION JOINT AT BRICK MASONRY LOCATED AT NORTH ELEVATION OF TUNNEL, FOR EXPOSED SURFACE.
5. REPLACEMENT OF EXTERIOR EXPANSION JOINTS ON THE WALKWAY ABOVE THE TUNNEL, BETWEEN GRIDS 7 AND 10. THE EDGE OF THE EXPANSION JOINTS SHALL BE PERFORMED PRIOR TO RE-GRADING THE SOUTH LANDSCAPE.
6. REPLACEMENT OF SEALANTS FOR ALL JOINTS (WALKWAY, RAILING, RAILING CONCRETE BASE, AND OTHERS ADJACENT) WITH NEW SEALANT.



SCOPE OF WORK

WINDOWS

1. REMOVE INTERIOR AND EXTERIOR SEALANTS.
2. INSTALL NEW SPRAY FOAM INSULATION AROUND CONTOURS.
3. INSTALL NEW BACKER ROD AT INTERIOR AND EXTERIOR.
4. APPLICATION OF NEW SEALANT AT INTERIOR AND EXTERIOR.
5. REMOVE INTERIOR PAINT AND PARGING SURFACE ALONG NORTH ELEVATION (WITH THE WINDOW) UNTIL APPROXIMATELY 152mm AWAY FROM WINDOW EDGES, AS INDICATED IN DETAIL 1/A2. PAINT CONTAINS LEAD AND MUST BE ABATED AS PER SPECIFICATIONS.

LEGEND

DIRECTION OF GRADE  
2% GRADE AWAY FROM BUILDING



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5	ISSUED FOR TENDER	21/10/2021
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3	ISSUED FOR TENDER	13/07/2020
2	90% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018

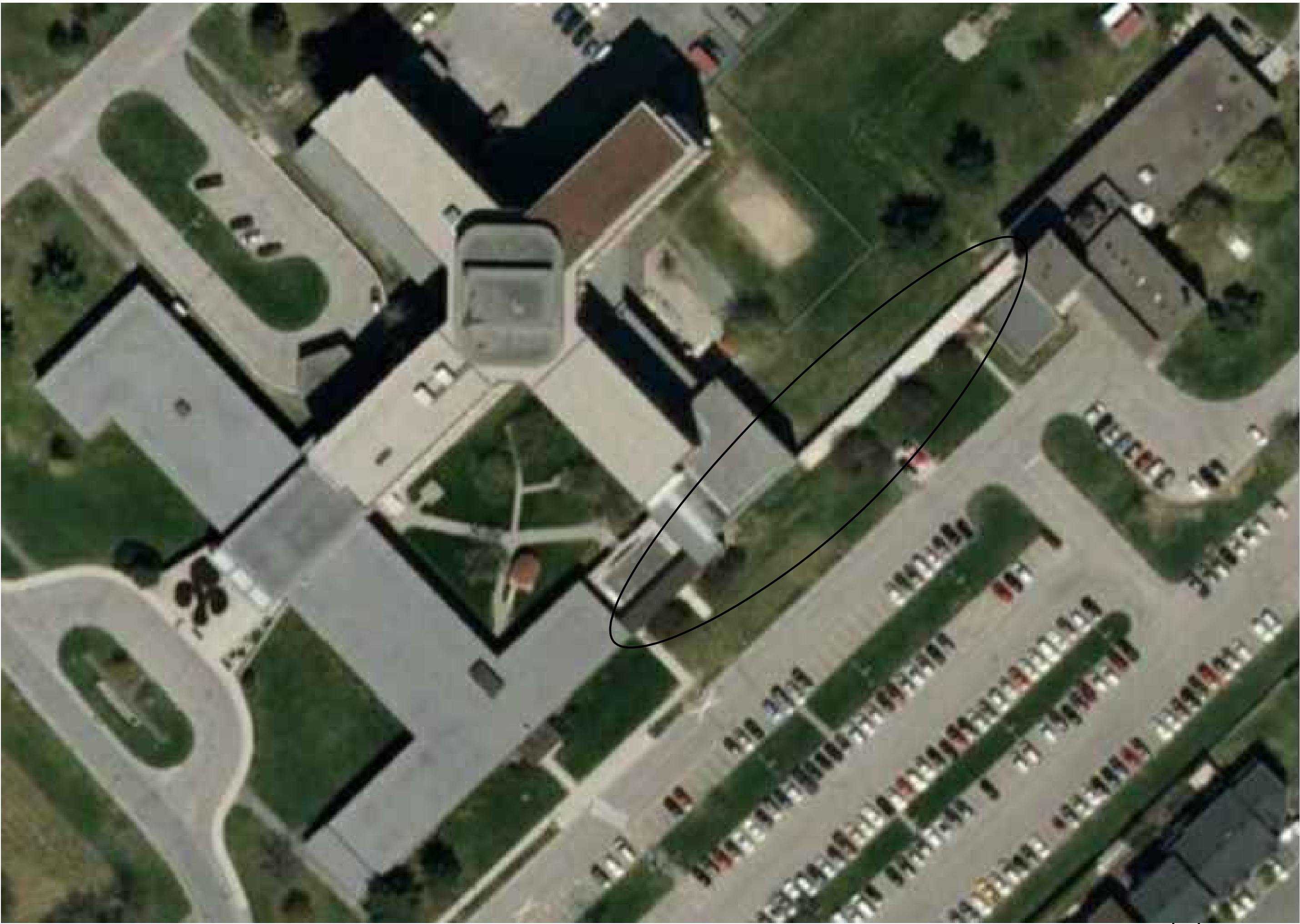
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project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

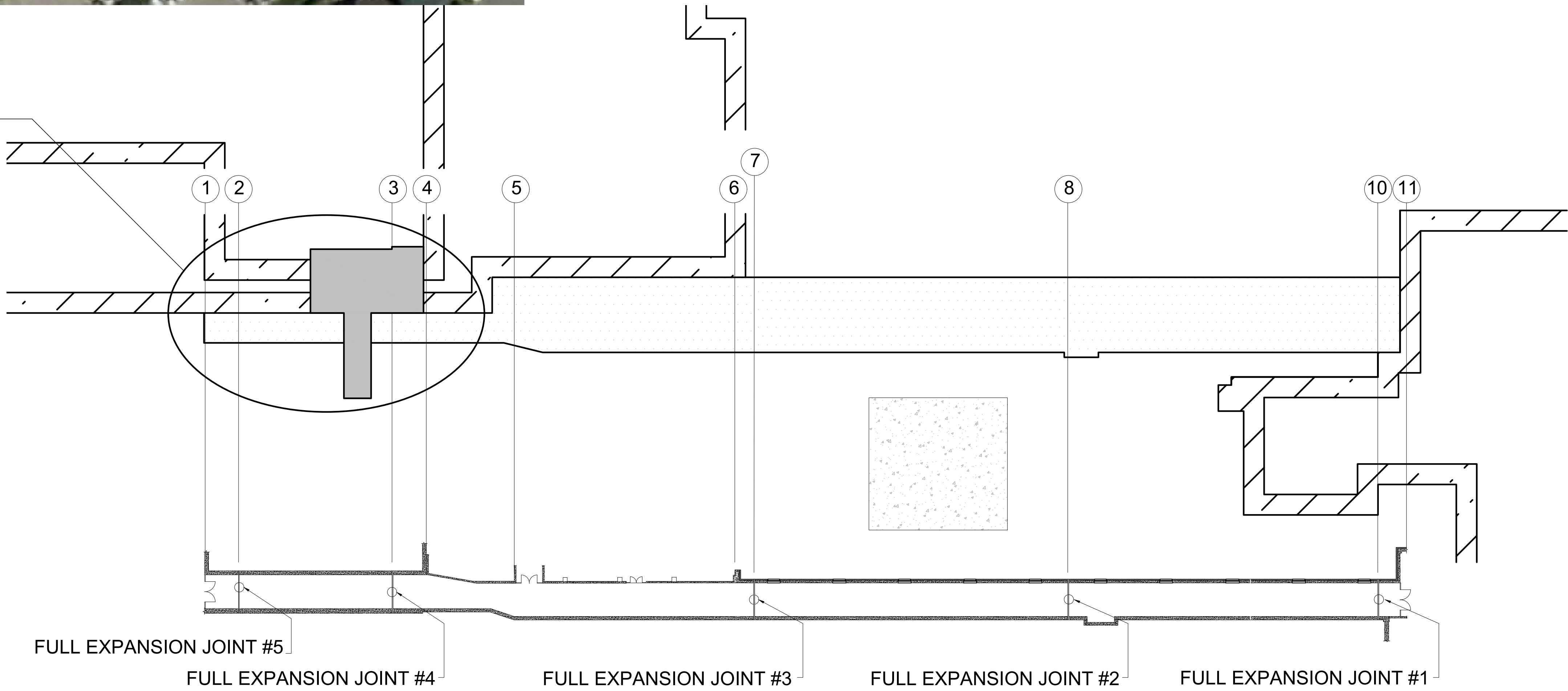
drawing	dessin
SITE PLAN & SCOPE OF WORK	

Designed By	S.V.	Conçu par
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Drawn By	R.V.	Dessiné par
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Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
R.065220.541		
Drawing no.		No. du dessin
A1.1		





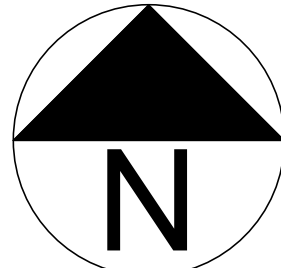
FOR ENLARGED PLAN  
AND DETAILS REFER  
TO DWG# A1.3 & A1.4



- NOTE:
1. DISTANCE BETWEEN EACH EXPANSION JOINT ARE INDICATED IN DRAWING A2.
  2. EXPANSION JOINT #4 AND #5 ARE LOCATED UNDERNEATH LANDSCAPE. CONTRACTOR TO PERFORM LOCATES AND PERFORM EXCAVATION TO ADEQUATELY EXPOSE EXPANSION JOINTS FOR MANDATED REPLACEMENT.
  3. SOUTH PORTION OF EXPANSION JOINTS #1, #2, AND #3 ARE UNDERNEATH LANDSCAPE AND IS TO BE EXCAVATED TO PERFORM MANDATED REPLACEMENT.
  4. EXPANSION JOINTS #1, #2 AND #3 ARE PARTIALLY COVERED BY LANDSCAPE ON THE NORTH PORTION. CONTRACTOR TO EXCAVATE IN ORDER TO PERFORM MANDATED REPLACEMENT.

LEGEND

DIRECTION OF GRADE  
2% GRADE AWAY FROM BUILDING



PROJECT NORTH

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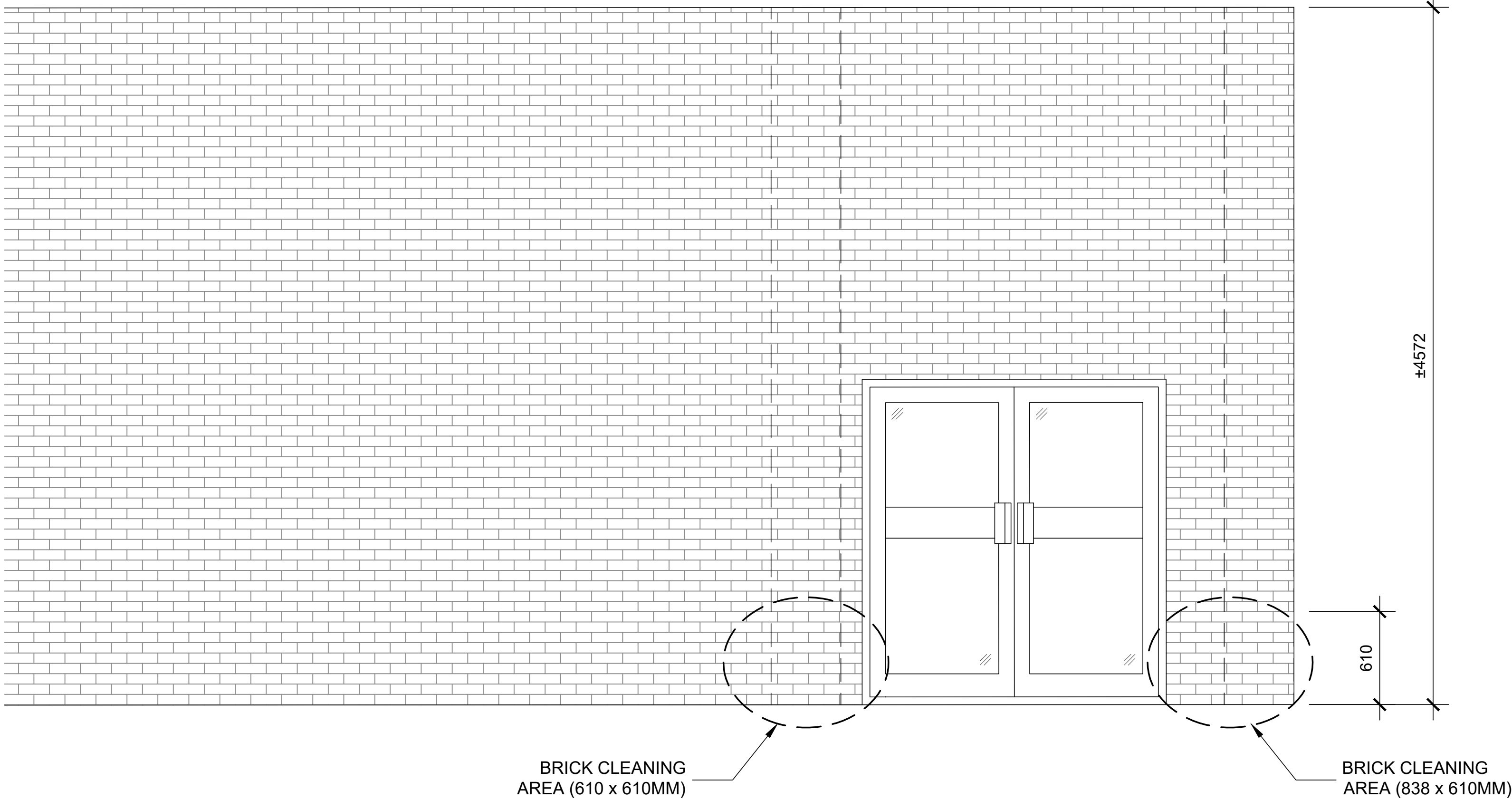
project projet  
TUNNEL EXPANSION JOINT  
REPLACEMENT  
R.065220.541

drawing dessin  
ADDITIONAL SITE  
PLAN

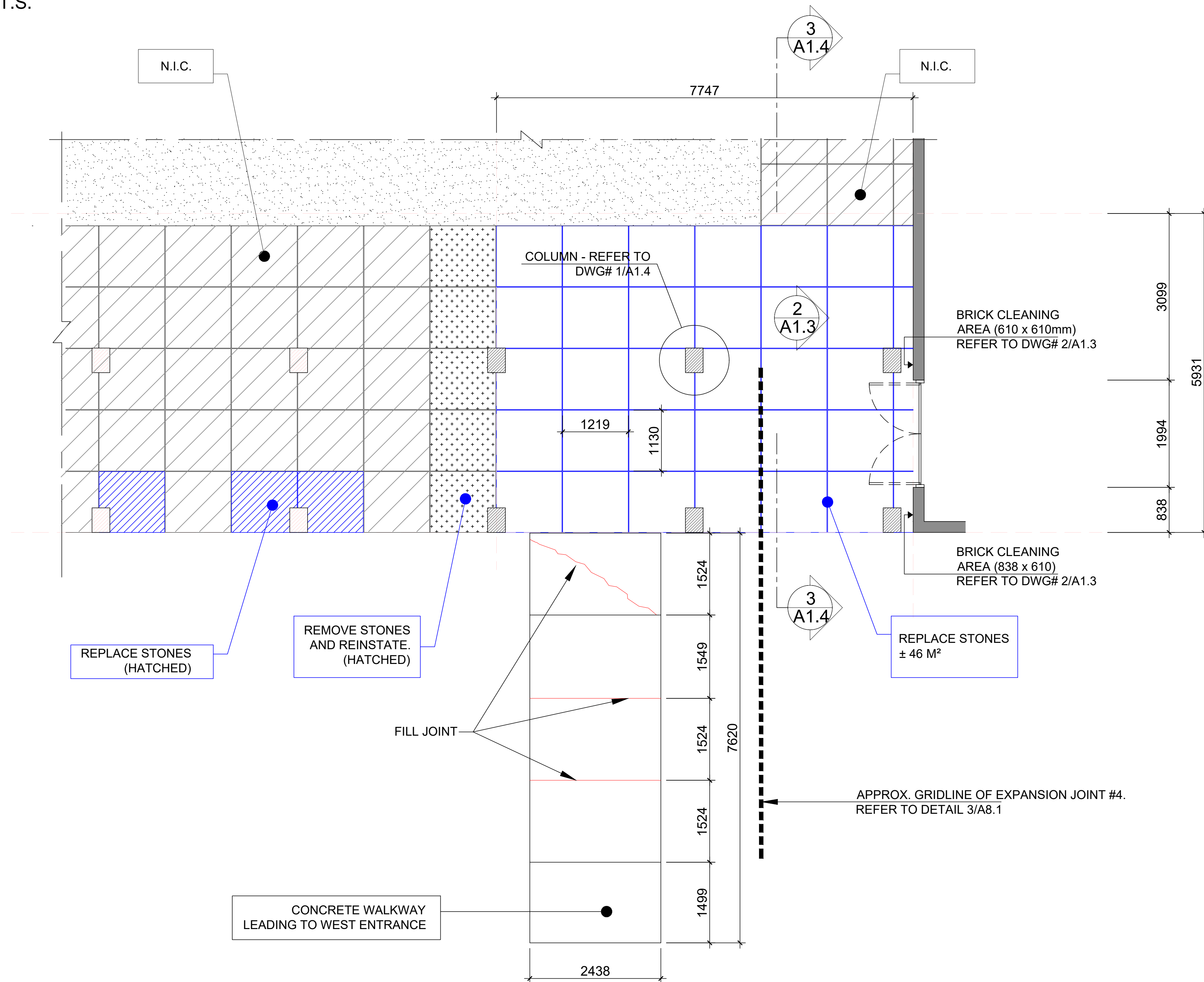
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Tender		Soumission

Project Manager Administrateur de projets  
Project no. No. du projet  
R.065220.541  
Drawing no. No. du dessin  
A1.2





2  
A1.3 ELEVATION - BRICK WALL (PARTIAL)  
N.T.S.



1  
A1.3 PLAN - WEST ENTRANCE WALKWAY  
N.T.S.



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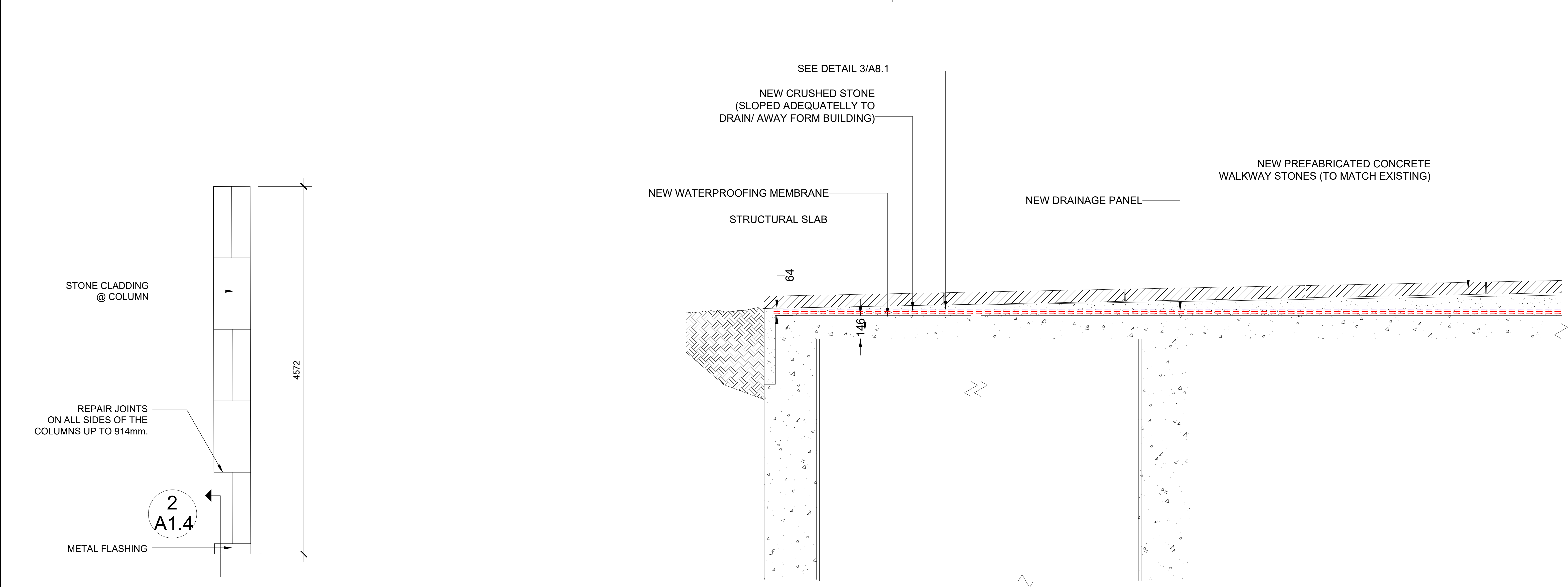
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A	A
C	B C

project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

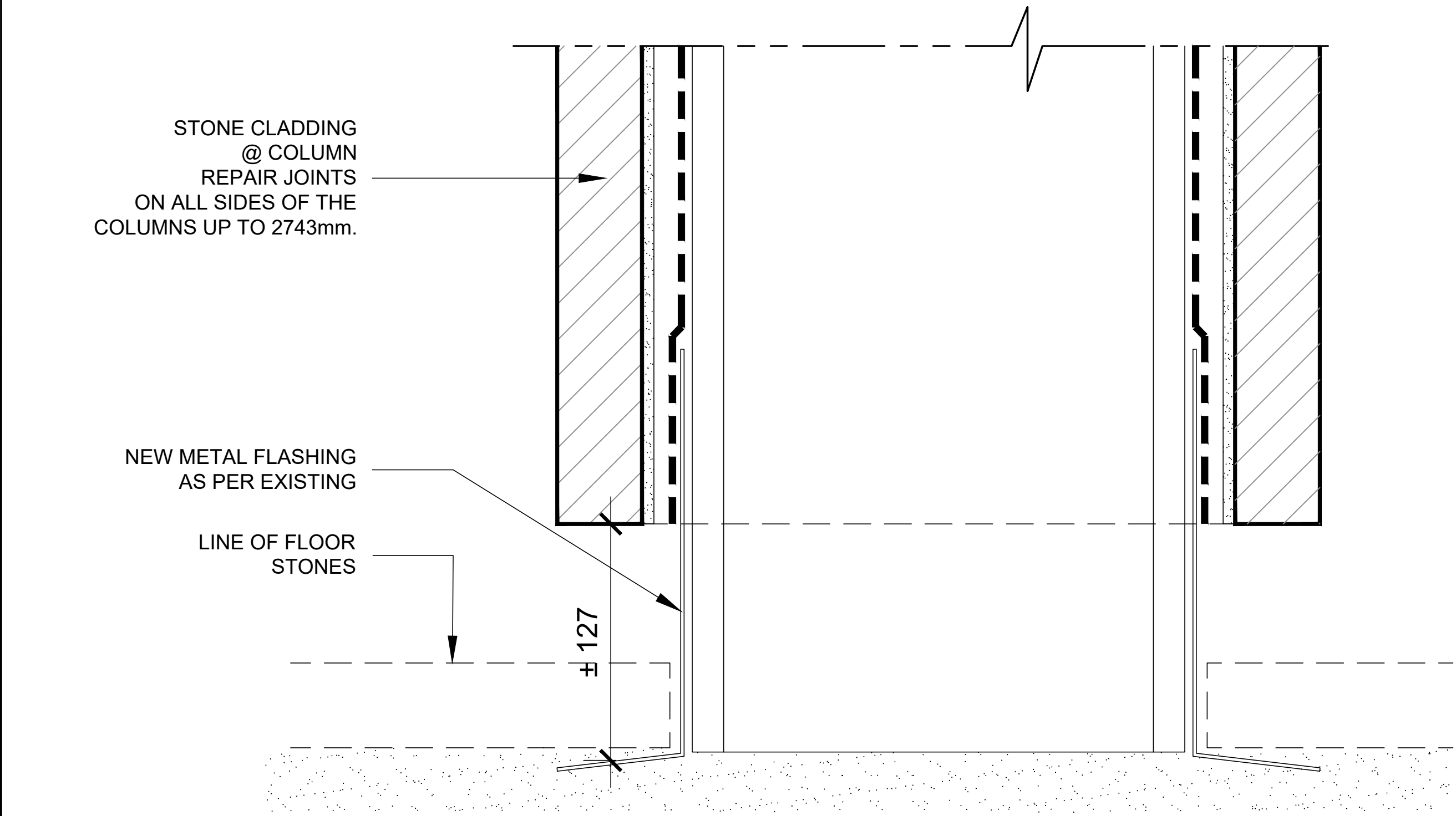
drawing	dessin
WEST ENTRANCE WALKWAY PLAN AND (PARTIAL) ELEVATION	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
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Project no.		No. du projet
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Drawing no.		No. du dessin
		A1.3



1  
A1.4  
ELEVATION - COLUMN  
N.T.S.

3  
A1.4  
SECTION DETAIL  
N.T.S.



2  
A1.4  
SECTION DETAIL - BASE COLUMN  
N.T.S.



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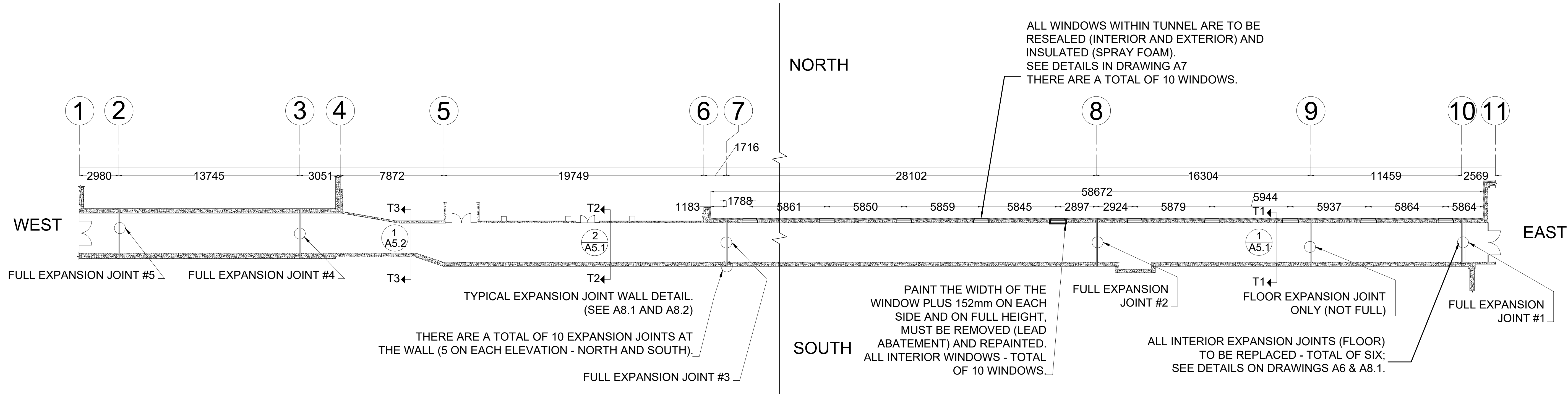
project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
WEST ENTRANCE WALKWAY COLUMN ELEVATION AND SECTION DETAIL	

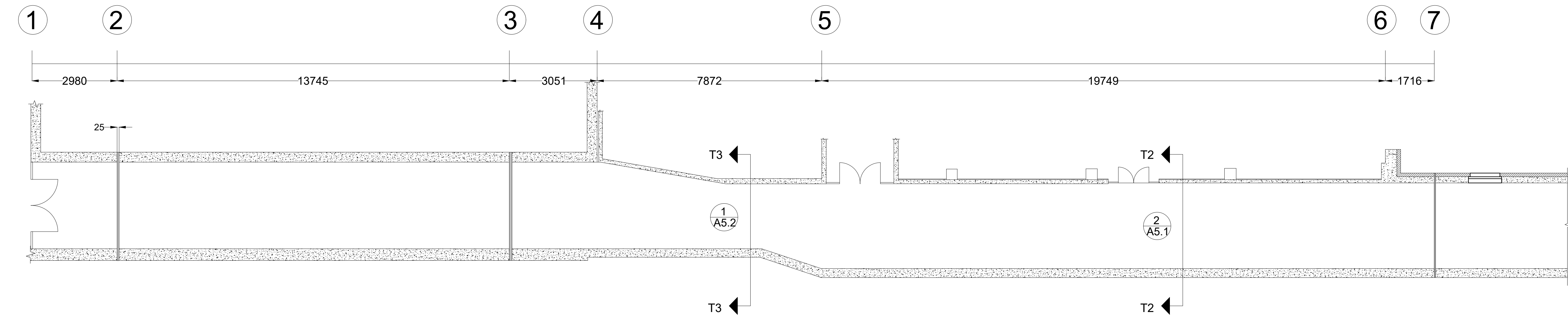
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Tender		Soumission

Project Manager	Administrateur de projets
Project no.	No. du projet
R.065220.541	
Drawing no.	No. du dessin
A1.4	

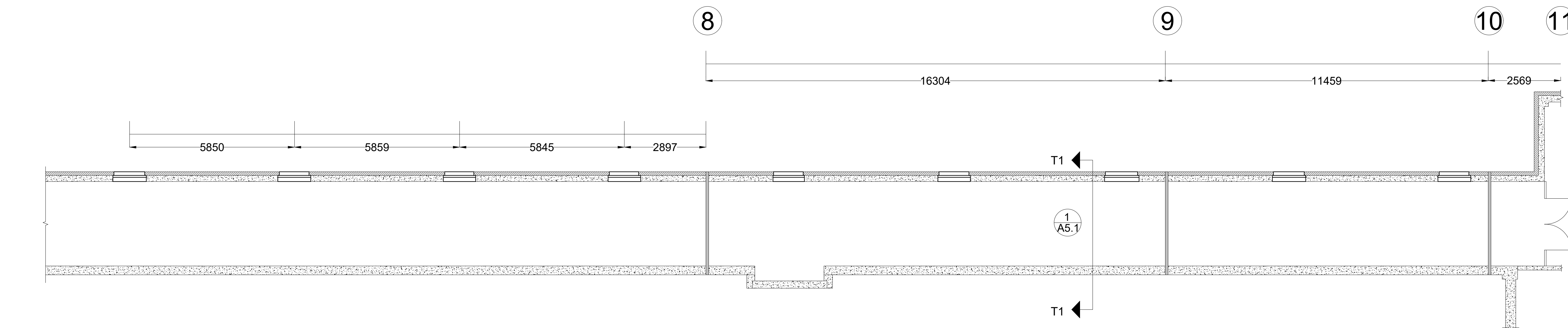




1 TUNNEL GENERAL FLOOR PLAN  
A2 N.T.S.

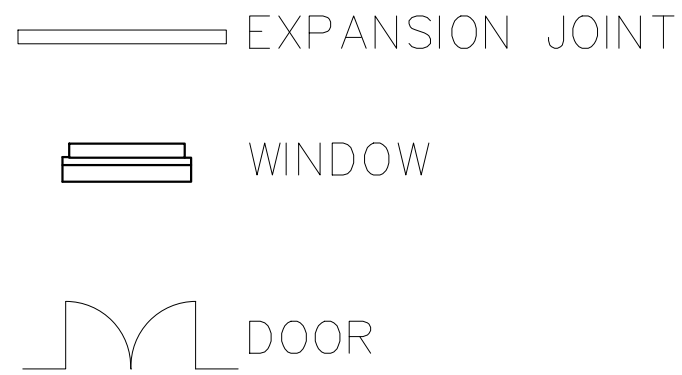


2 TUNNEL FLOOR PLAN (WEST SIDE) - CLOSE-UP VIEW  
A2 N.T.S.



3 TUNNEL FLOOR PLAN (EAST SIDE) - CLOSE-UP VIEW  
A2 N.T.S.

LEGEND



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A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project projet

TUNNEL EXPANSION JOINT REPLACEMENT

R.065220.541

drawing dessin

INTERIOR FLOOR PLANS

Designed By S.V. Conçu par  
Date 2021/10/21 (yyyy/mm/dd)

Drawn By R.V. Dessiné par  
Date 2021/10/21 (yyyy/mm/dd)

Reviewed By S.V. Examiné par  
Date 2021/10/21 (yyyy/mm/dd)

Approved By S.V. Approuvé par  
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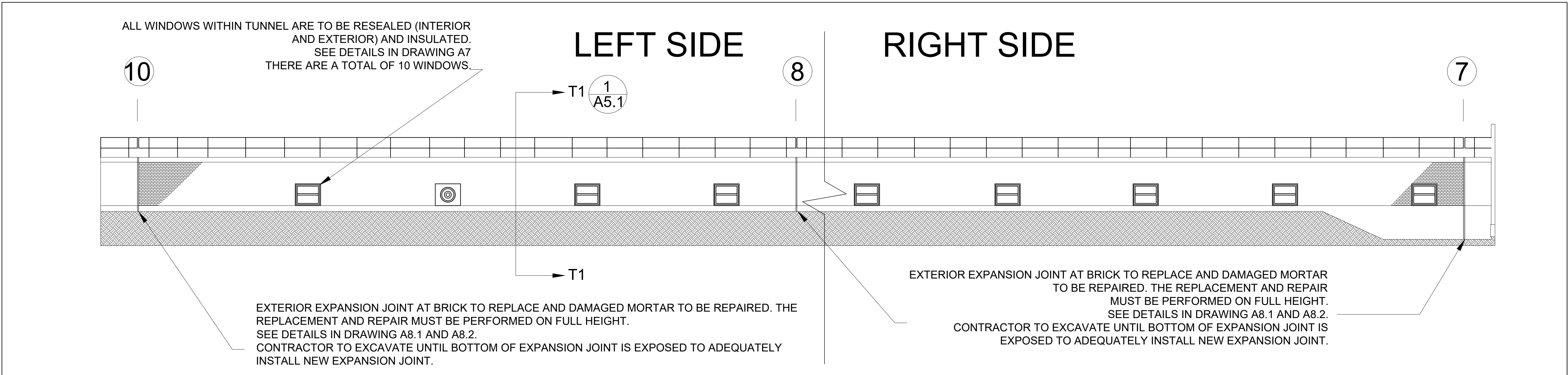
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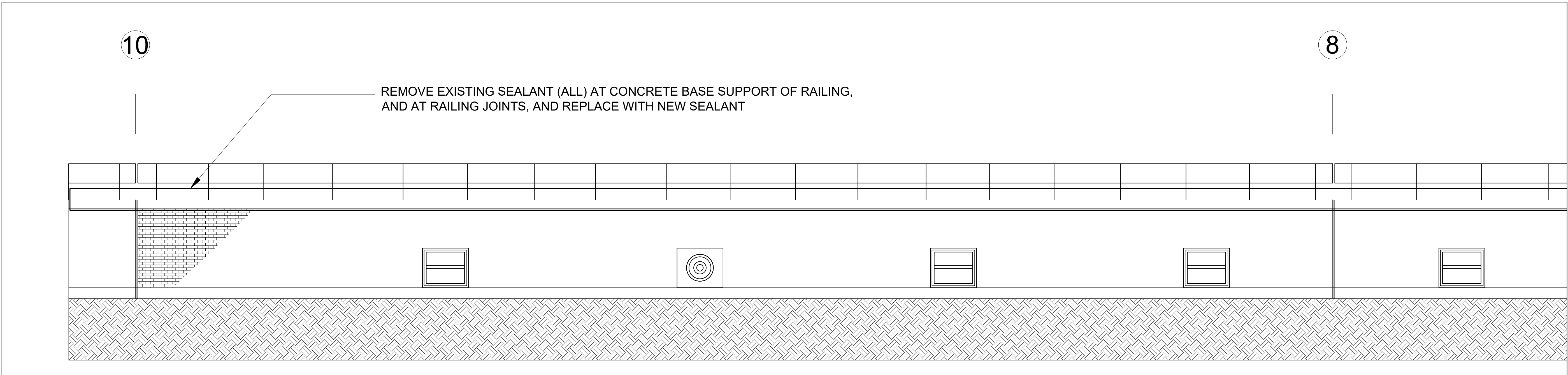
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A2

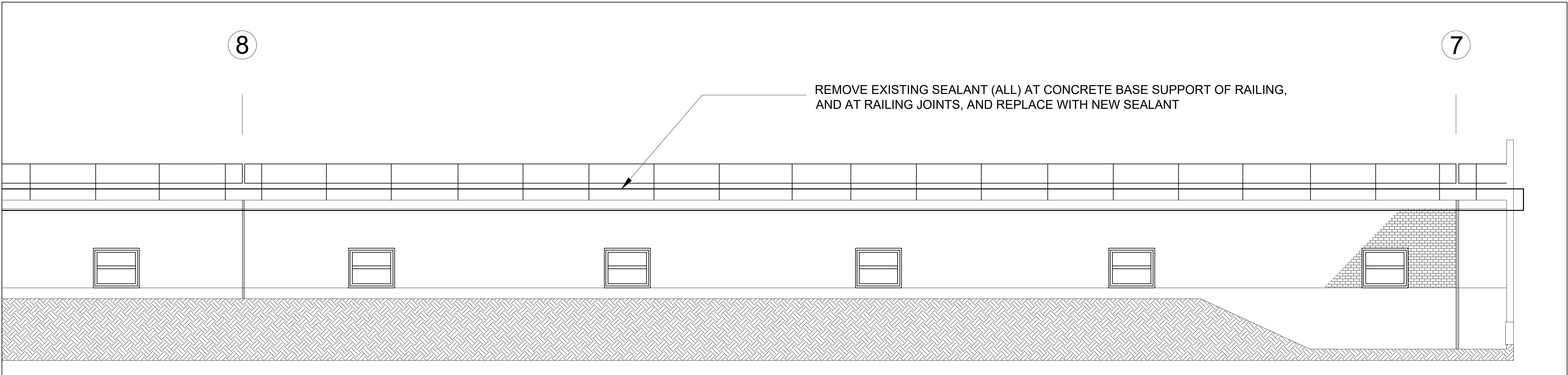




1  
A3  
**EXISTING TUNNEL ELEVATION**  
N.T.S.

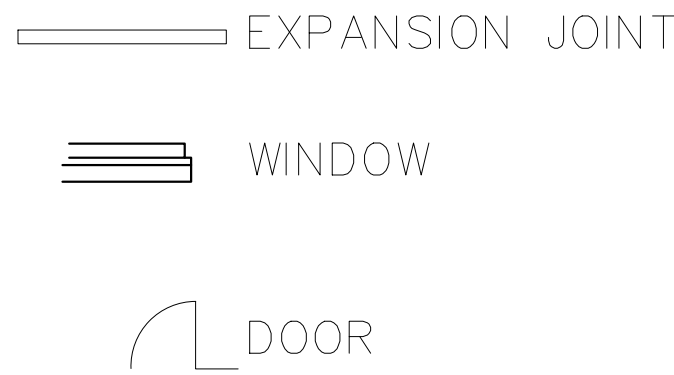


2  
A3  
**EXISTING TUNNEL ELEVATION (LEFT SIDE) - CLOSE-UP VIEW**  
N.T.S.



3  
A3  
**EXISTING TUNNEL ELEVATION (RIGHT SIDE) - CLOSE-UP VIEW**  
N.T.S.

LEGEND



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NOTE:  
1. ELEVATIONS IN DRAWING A3 SHOW THE EXTERIOR NORTH ELEVATION THAT IS EXPOSED.  
2. BRICK MASONRY ON EXTERIOR OF NORTH ELEVATION.



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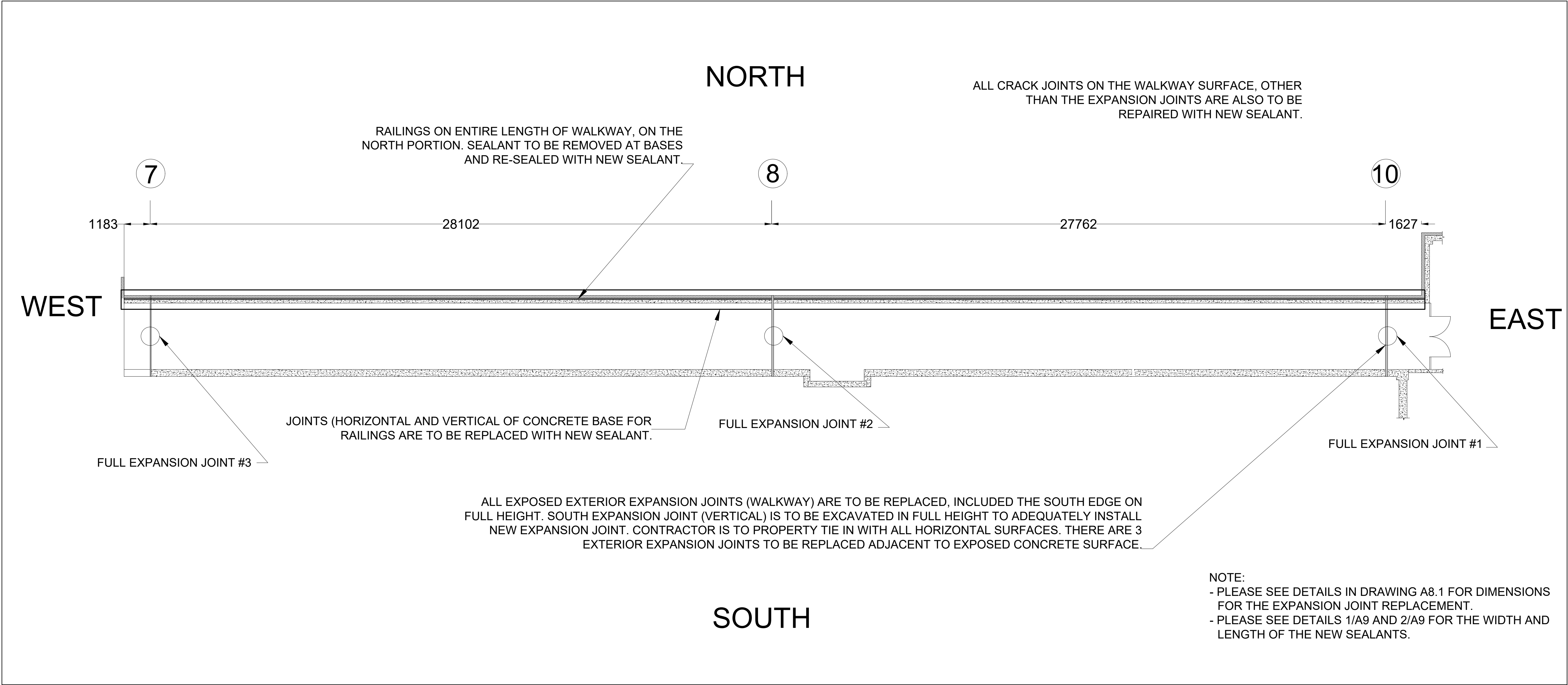
project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
EXTERIOR ELEVATIONS (NORTH)	

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Tender		Soumission

Project Manager	Administrateur de projets
Project no.	No. du projet
R.065220.541	
Drawing no.	No. du dessin
A3	





1 EXPOSED CONCRETE WALKWAY ABOVE TUNNEL  
A4 N.T.S.

LEGEND

EXPANSION JOINT

WINDOW

DOOR

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NOTE:

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2. BRICK MASONRY ON EXTERIOR OF NORTH ELEVATION.

S. VONGMANISAK

100514283

JUN. 09, 2022

PROVINCE OF ONTARIO

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revisions

description

date

A

C

A detail no.  
no. du détail

A

B

C

B location drawing no.  
sur dessin no.

C drawing no.  
dessin no.

project

projet

TUNNEL EXPANSION JOINT REPLACEMENT

R.065220.541

drawing

dessin

EXTERIOR PLAN VIEW  
(EXPOSED WALKWAY ABOVE TUNNEL)

Designed By

S.V.

Conçu par

Date

2021/10/21

(yyyy/mm/dd)

Drawn By

R.V.

Dessiné par

Date

2021/10/21

(yyyy/mm/dd)

Reviewed By

S.V.

Examiné par

Date

2021/10/21

(yyyy/mm/dd)

Approved By

S.V.

Approuvé par

Date

2021/10/21

(yyyy/mm/dd)

Tender

Soumission

Project Manager

Administrateur de projets

Project no.

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Drawing no.

No. du dessin

A4

PSPC B1 (1000 x 707)

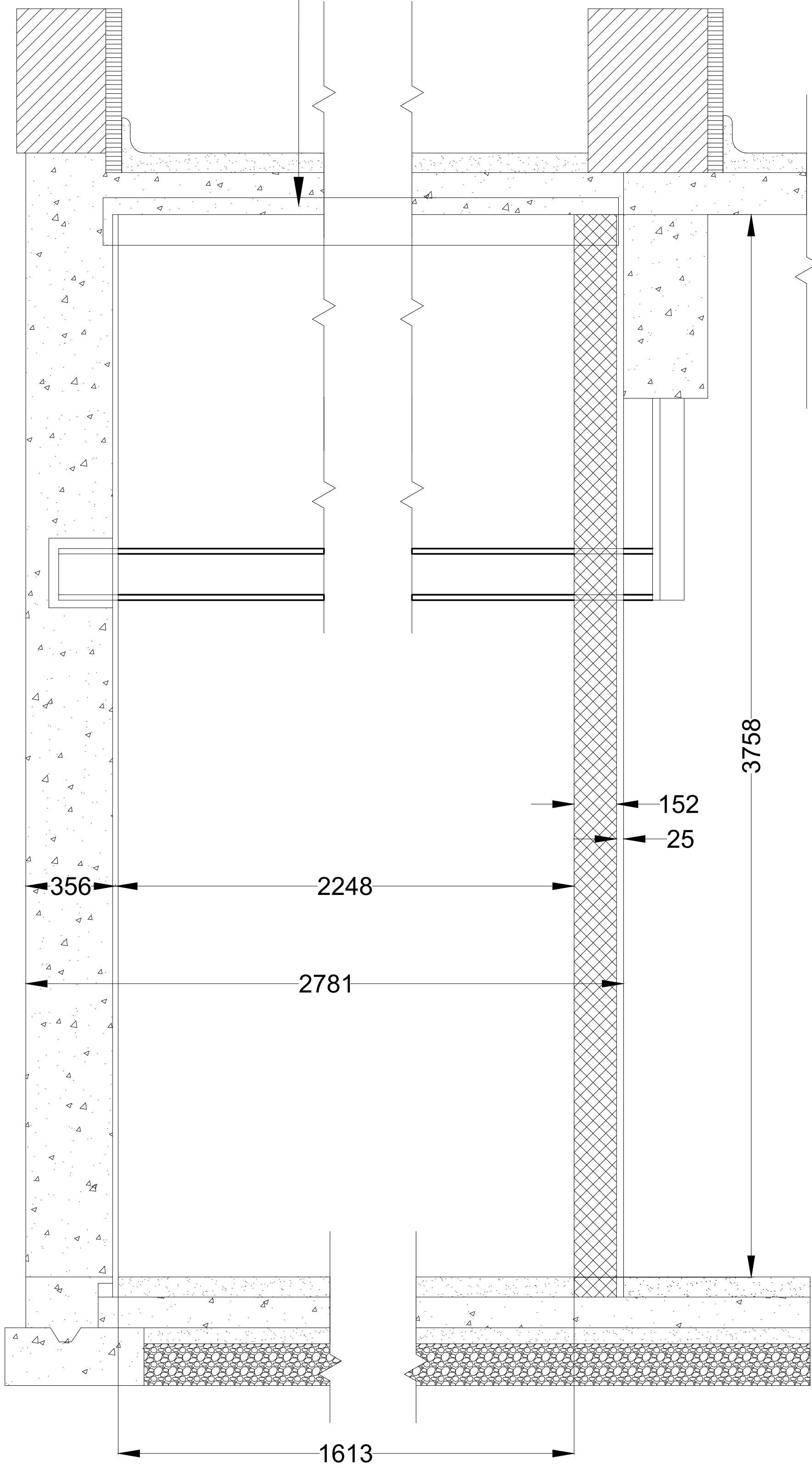






NOTE:  
1) ALL EXPANSION JOINTS ARE TO BE INSTALLED FROM THE EXTERIOR OF THE TUNNEL AS PER DETAILS IN DRAWING A8.1 AND A8.2.

INSTALL NEW SEALANT JOINT AS PER DETAIL 3/A8.1 AND 2/A9. NEW STAINLESS STEEL PAN)



SECTION "T3-T3"

1  
A5.2

SECTION DETAIL  
N.T.S.

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TOLL FREE: 1-888-607-5245 TEL: 613.225.0693  
WWW.IRCGROUP.COM FAX: 613.225.7331



Dimensions and conditions on site may vary. Immediately notify the engineer of all discrepancies.

8	ISSUED FOR TENDER	09/06/2022
7	ISSUED FOR TENDER	12/05/2022
6	ISSUED FOR TENDER	17/12/2021
5	ISSUED FOR TENDER	21/10/2021
4	ISSUED FOR TENDER	25/06/2021
3	ISSUED FOR TENDER	13/07/2020
2	99% SUBMISSION	29/09/2019
1	66% SUBMISSION	11/10/2018
revisions	description	date

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

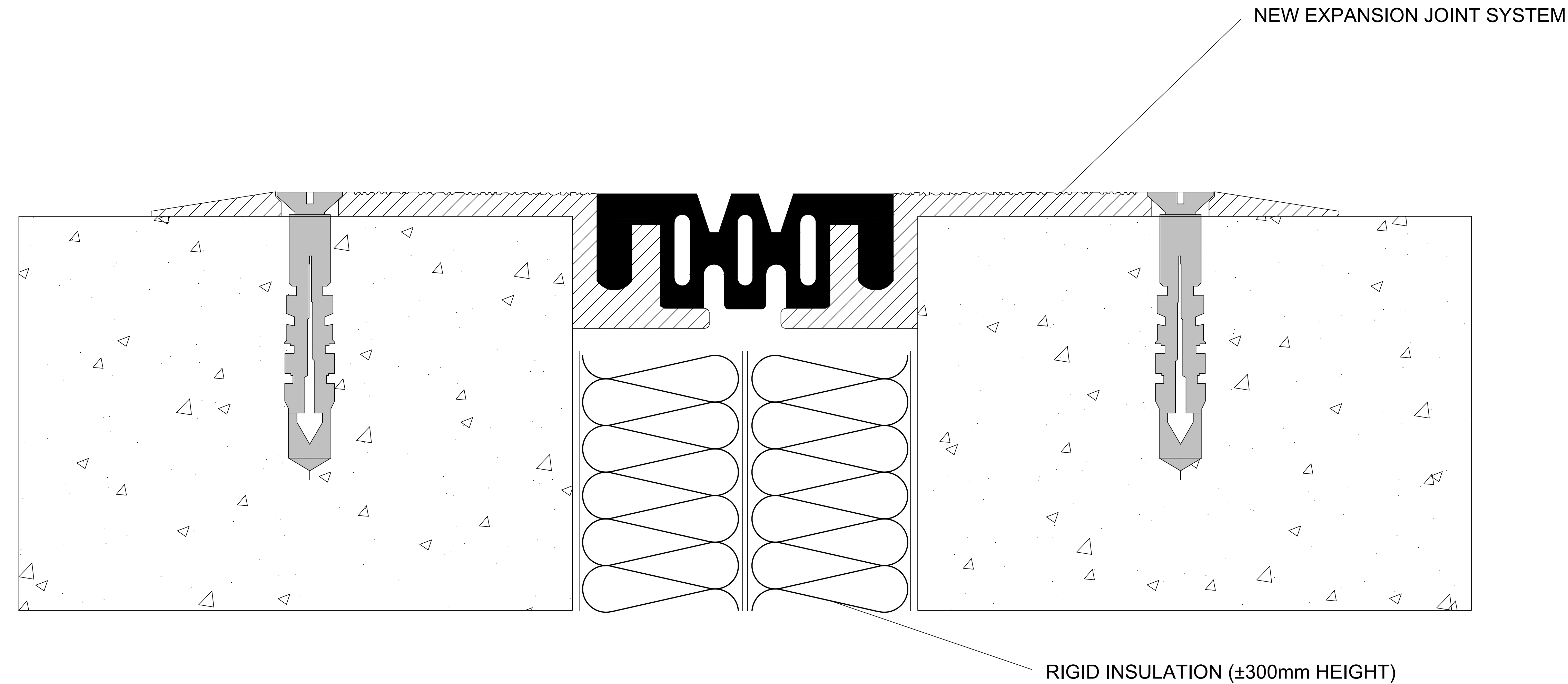
project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
SECTION DETAIL	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission

Project Manager	Administrateur de projets
Project no.	No. du projet
R.065220.541	
Drawing no.	No. du dessin
A5.2	





PROFILE	TOTAL MOVEMENT  Δbf (mm)	PROFILE WIDTH TOTAL Δbf (mm)	JOINT WIDTH REQUIRED Δbf (mm)	WIDTH OF INSERT Δbf (mm)	INSTALLATION HEIGHT  Δbf (mm)	THICKNESS OF ALU SIDE PLATES Δbf (mm)	LOAD BEARING CAPACITY
EXPANSION JOINT	16(±8)	170	50	43	16	3	PEDESTRIANS

LEGEND

EXPANSION JOINT

WINDOW

DOOR

Canada

Public Services and  
Procurement Canada  
Services publics et  
Approvisionnement Canada  
Real Property  
Branch  
Direction générale  
des biens immobiliers

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project	projet
TUNNEL EXPANSION JOINT REPLACEMENT	
R.065220.541	

drawing	dessin
INTERIOR FLOOR EXPANSION JOINT DETAIL	

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
		R.065220.541
Drawing no.		No. du dessin
		A6

1

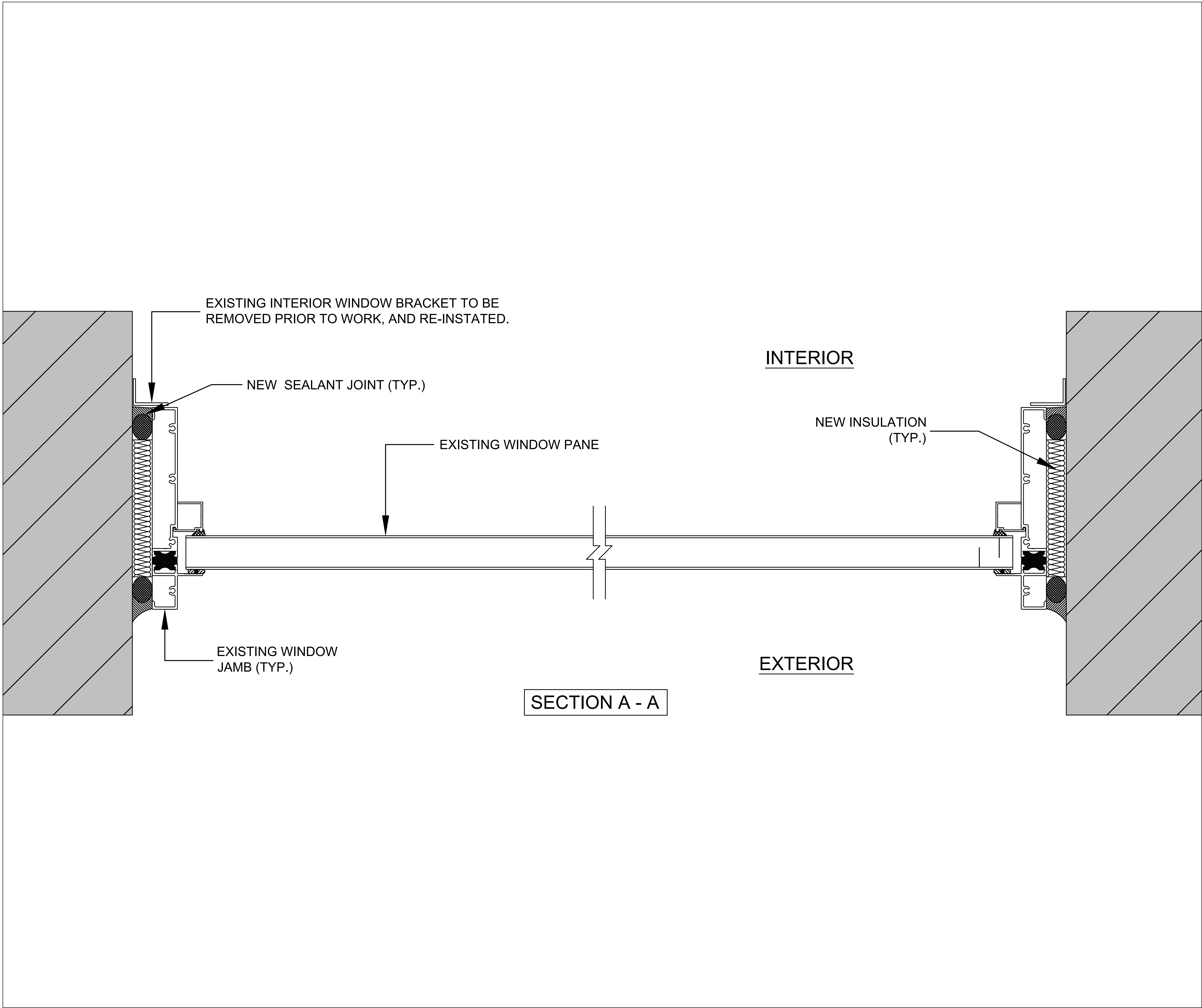
A6

TRANSITION DETAIL (FLOOR)

N.T.S.

c





LEGEND

EXPANSION JOINT

WINDOW

DOOR

Public Services and Procurement Canada  
Real Property Branch

Services publics et Approvisionnement Canada  
Direction générale des biens immobiliers

IRC BUILDING SCIENCES GROUP  
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NOTE:

1. NEW INSULATION TO BE APPLIED ALL AROUND THE WINDOW

2. NEW BACKER ROD AND SEALANT ALL AROUND WINDOW FRAME, INTERIOR AND EXTERIOR



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A	A detail no.	A
C	no. du detail	B
	B location drawing no.	C
	sur dessin no.	
	C drawing no.	
	dessin no.	

project projet

TUNNEL EXPANSION JOINT REPLACEMENT

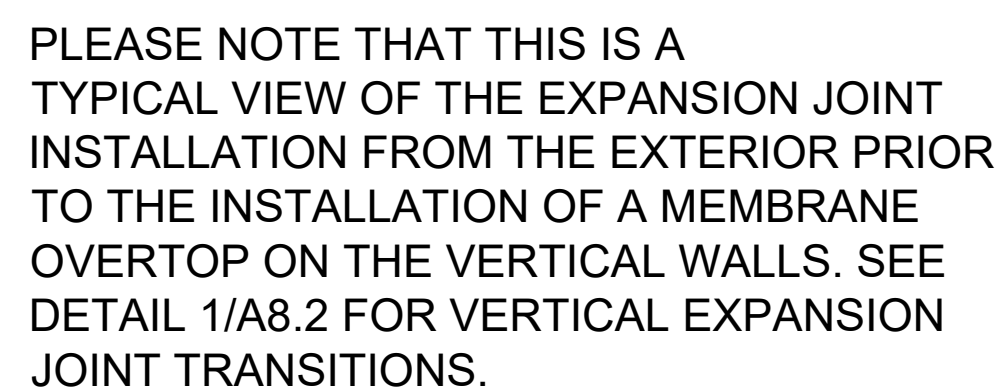
R.065220.541

drawing dessin

WINDOW DETAIL

Designed By	S.V.	Conçu par
Date	2021/10/21	(yyyy/mm/dd)
Drawn By	R.V.	Dessiné par
Date	2021/10/21	(yyyy/mm/dd)
Reviewed By	S.V.	Examiné par
Date	2021/10/21	(yyyy/mm/dd)
Approved By	S.V.	Approuvé par
Date	2021/10/21	(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
		R.065220.541
Drawing no.		No. du dessin
		A7





FIELD APPLIED MIN. 19.1mm  
DEEP INJECTED SEALANT BAND AND CORNER  
BEAD ALONG SIDE OF DSM AS SHOWN - BOTH SIDES

19.1mm

6.4mm

65mm

50

HYDROPHILIC GROUT INJECTED  
INTO CAVITY (BY OTHERS)

CONTRACTOR MUST SAW-CUT  
OPENING, AS REQUIRED TO  
INSTALL NEW EXPANSION JOINT.

WATERTIGHT FACTORY APPLIED  
TRAFFIC-GRADE  
SILICONE BELLOWS  
(NUMBER OF BELLOWS VARIES  
WITH NOMINAL MATERIAL SIZE)

MICROSPHERE-MODIFIED,  
100% ACRYLIC-IMPREGNATED  
PRE COMPRESSED FOAM.  
(CONTAINS NO WAX OR WAX COMPOUNDS)

EPOXY ADHESIVE  
BOTH SIDES

NOTE:  
- PLEASE SEE DETAIL 3/A8.1 AND 1/A8.2 FOR  
FINISHED SURFACE WATERPROOFING.

NOTE:  
- PLEASE SEE DETAIL 1/A8.2 FOR FINISHED  
SURFACE WATERPROOFING ON VERTICAL PLANE.



NEW SEALANT WITH BACKER ROD.

### LEGEND



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sur dessin no.  
 C drawing no.  
dessin no.

project	projet
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## TUNNEL EXPANSION JOINT REPLACEMENT

R.065220.541

drawing	dessin
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### EXPANSION JOINT WALL & CEILING (EXTERIOR) DETAILS

Designed By	SV	Conçu par
-------------	----	-----------

Date 2021/10/21 (yyyy/mm/dd)

Drawn By	R.V.	Dessiné par
----------	------	-------------

Date	2021/10/21	(yyyy/mm/dd)
------	------------	--------------

Reviewed By	SV	Examiné par
-------------	----	-------------

Date	2021/10/21	(yyyy/mm/dd)
------	------------	--------------

Approved By	Approuvé par
S.V.	

Date	2021/10/21	(yyyy/mm/dd)
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Tender	Soumission
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Project Manager      Administrateur de projets

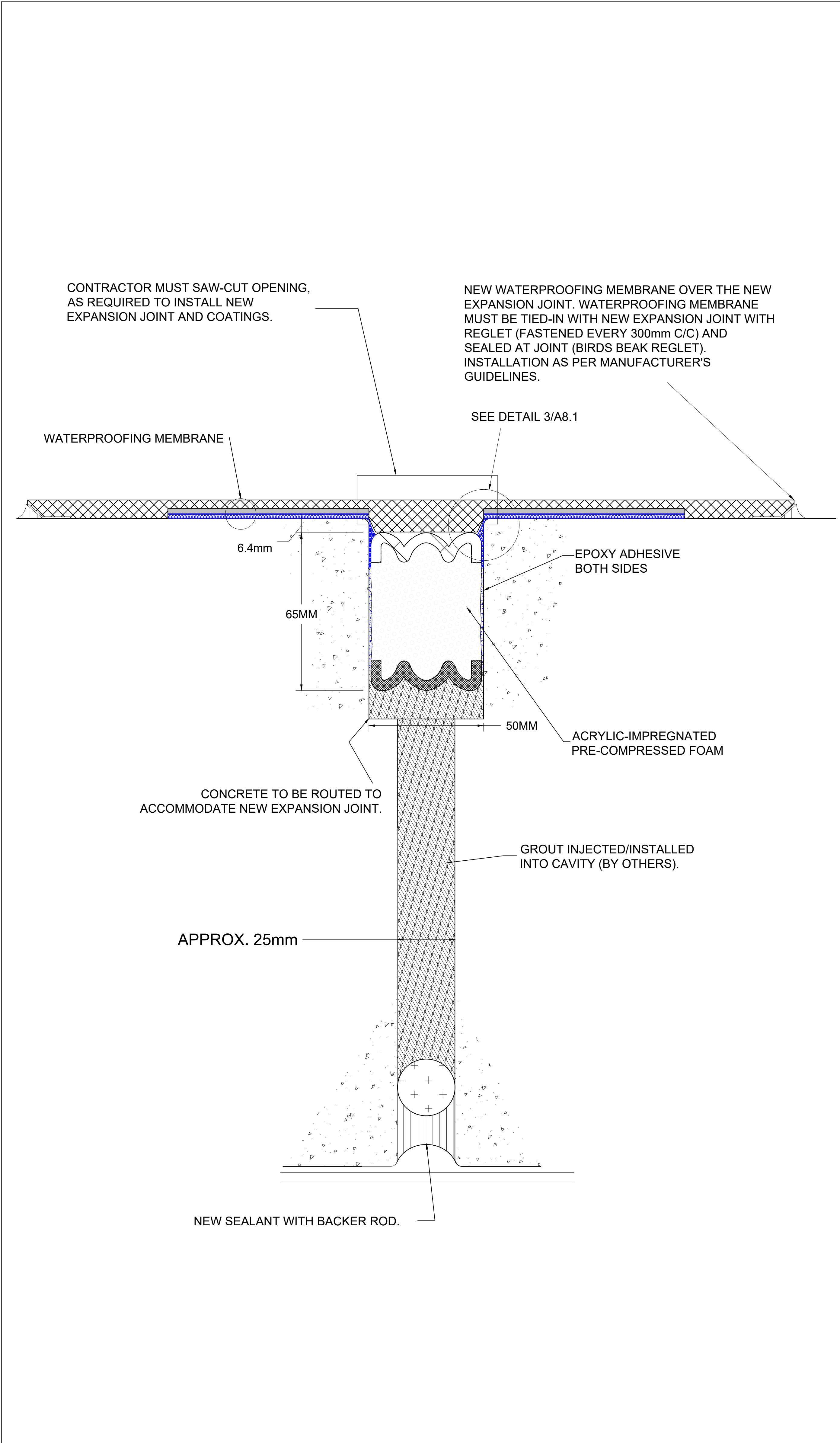
Project Manager	Administrateur de projets
Project no.	No. du projet

R 065220 541

R.005220.541
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Drawing no.	No. du dessin
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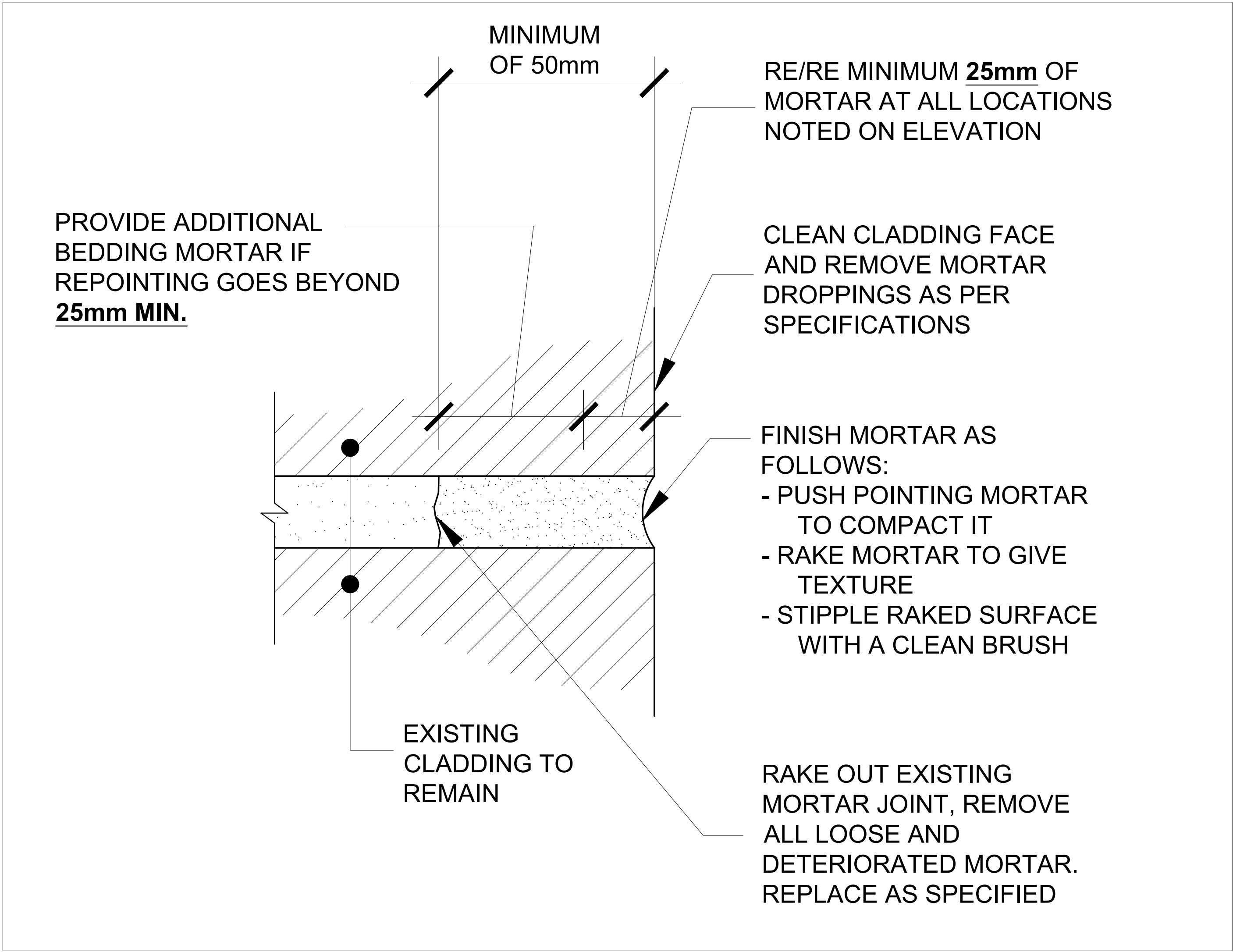
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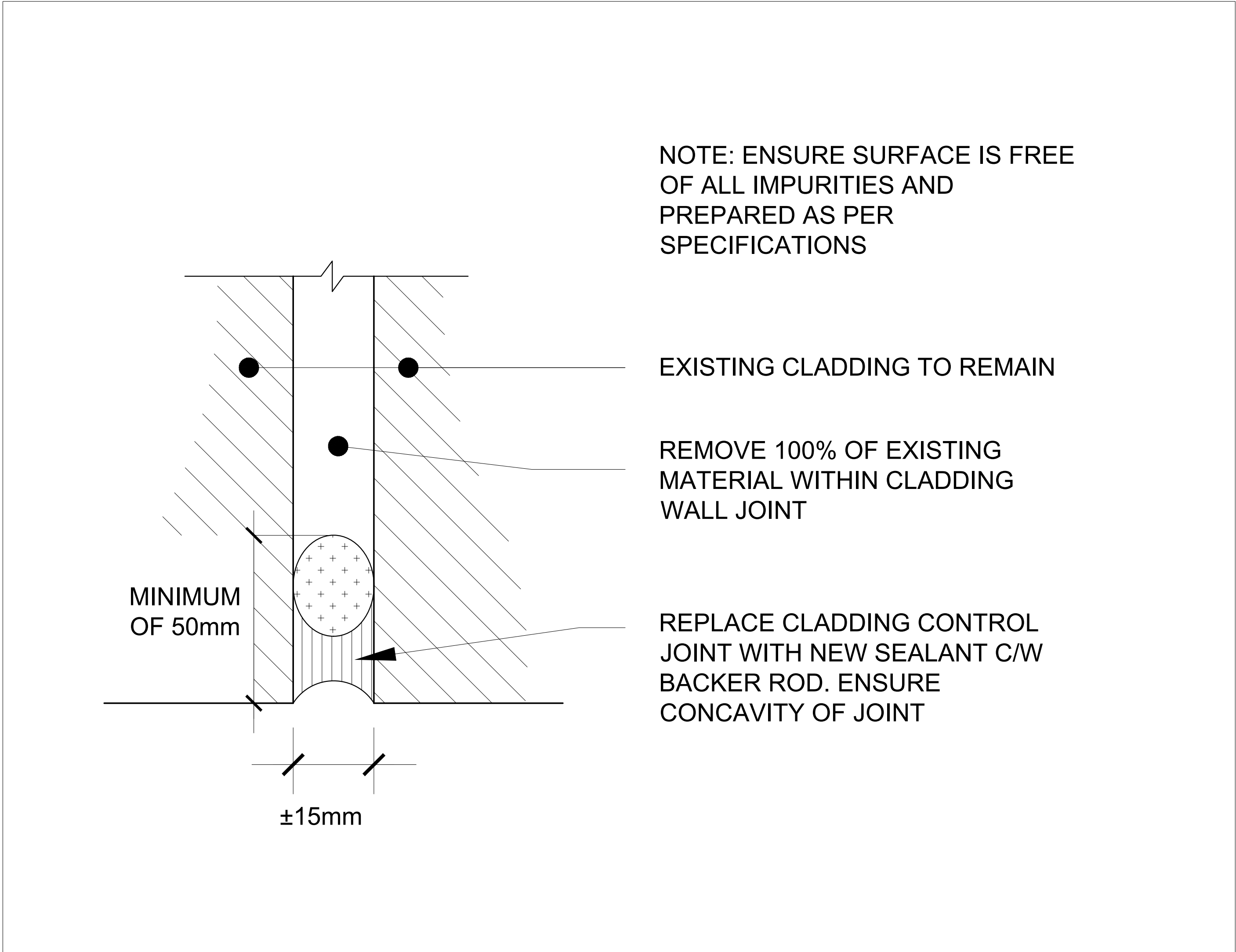
EXPANSION JOINT DETAIL (EXTERIOR JOINT - VERTICAL PLANE)

N.T.S.

LEGEND



1  
A9  
BRICK REPOINTING DETAIL  
N.T.S.



2  
A9  
SEALANT JOINT (INTERIOR WALL, INTERIOR CEILING, AND EXTERIOR BRICK) DETAIL  
N.T.S.

LEGEND