



Parks Canada  
Asset Management  
Western and  
Northern Region

Parcs Canada  
Gestion des biens  
Région de l'Ouest et  
du Nord

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# JASPER HERITAGE TRAIN STATION

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## RE-ISSUED FOR TENDER

### LIST OF PROJECT DRAWINGS

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C-0002	EXTERIOR DRAINAGE - EXISTING SITE CONDITIONS AND REMOVAL PLAN	S-100	RETAINING WALL - PLAN
C-0003	EXTERIOR DRAINAGE - OVERALL SITE DRAINAGE PLAN	S-101	RETAINING WALL - DETAILS
C-1000	EXTERIOR DRAINAGE - PLAN AND PROFILE - SHEET 1	S-102	RETAINING WALL - EXISTING PHOTOGRAPHS
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C-1002	EXTERIOR DRAINAGE - PLAN AND PROFILE - SHEET 3		
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Project No. 709

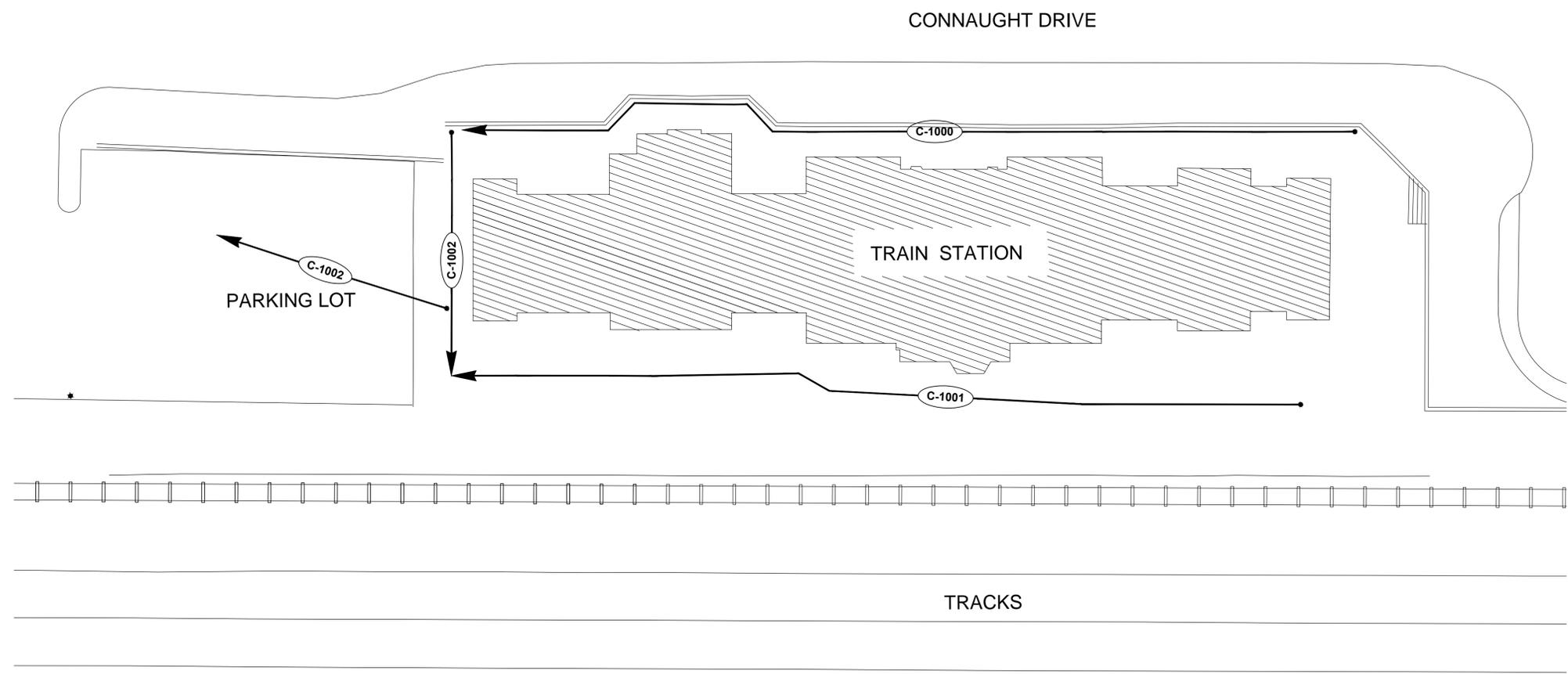
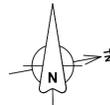
AECOM Project No. 60476902

JUNE 25, 2019

**GENERAL NOTES:**  
 1. ALL DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

**LEGEND:**  
 DRAWING CONTAINING PROFILE

	PROPOSED	EXISTING
GRATED DRAINAGE CHANNEL (EXISTING ONLY)	— D —	— D —
DRAINAGE SWALE CENTERLINE	— — — — —	— — — — —
CATCHBASIN	○	○
DOWNSPOUT CATCHBASIN	□	□
MANHOLE / CB MANHOLE	○	○
STORM SEWER	— ST —	— ST —
SUMP DISCHARGE	— SD —	— SD —
SEWER PIPE INSULATION (PROFILE VIEW)	■ ■ ■ ■ ■	
ELEVATION	— — — — —	— — — — —
FENCE (EXISTING ONLY)	— — — — —	— — — — —
WATER MAIN (EXISTING ONLY)	— — — — —	— — — — —
SANITARY SEWER (EXISTING ONLY)	— — — — —	— SAN —
FIRE HYDRANT (EXISTING ONLY)	+	+
FIRE HYDRANT (EXISTING ONLY)	+	+
STREET FURNITURE (EXISTING ONLY)	*	*



No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
F	18/04/27	RE-ISSUED FOR TENDER	DT	KL
E	17/12/08	ISSUED FOR TENDER	DT	KL

Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp / Sceau de l'ingénieur: [Blank]

Parcs Canada / Parks Canada

Asset Management Western and Northern Region / Gestion des biens Région de l'Ouest et du Nord

**Canada**

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Signature: [Signature]

Date: Apr 27 2018

PERMIT NUMBER: P10450

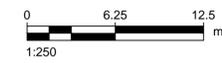
The Association of Professional Engineers and Geoscientists of Alberta

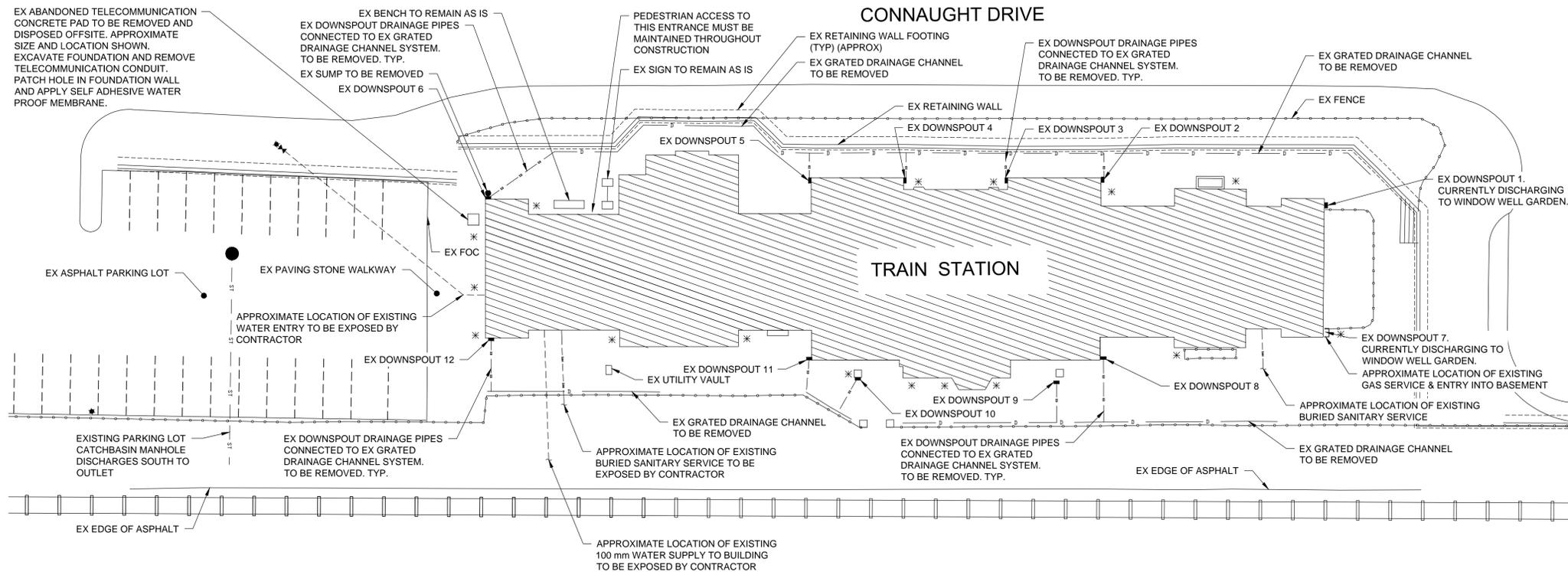
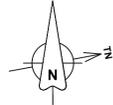
PROFESSIONAL ENGINEER / ALBERTA / [Stamp]

Project title / Titre du projet: **JASPER NATIONAL PARK JASPER HERITAGE TRAIN STATION**

Drawing title / Titre du dessin: **EXTERIOR DRAINAGE LEGEND AND GENERAL NOTES**

Surveyed by / Arpenté par: AECOM	Drawn by / Dessiné par: DT	Date: 17/12/08
Designed by / Concept par: KL	Reviewed by / Révisé par: CK	Scale / Echelle: NOTED
Client Acceptance / Acceptation du client: [Blank]		Approved by / Approuvé par: [Blank]
Project No. / N° du projet: 709	Asset No. / N° du bien: [Blank]	Sheet No. / N° de la feuille: 1 OF 10
Drawing Set No. / N° de série du dessin: [Blank]		Drawing No. / N° de dessin: C-0001





- GENERAL NOTES:**
- REFER TO DRAWING C-0001 FOR LEGEND AND GENERAL NOTES.
  - ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  - REMOVALS TO BE DISPOSED OF OFFSITE.
  - ROOF DOWNSPOUTS CURRENTLY DISCHARGE TO SUMPS, WHICH ARE TO BE SALVAGED. EXISTING SUMPS TO BE CLEANED OUT AND REMAIN IN PLACE.
  - PAVING STONES ARE TO BE SALVAGED FOR REUSE. EXISTING PAVING STONES AROUND BUILDING THAT NEED TO BE REMOVED ARE TO BE STORED ONSITE AND REPLACED WHEN SURFACE IS RESTORED.
  - EXISTING UTILITIES MUST BE EXPOSED BY HAND OR HYDRO-EXCAVATED TO CONFIRM LOCATION AND DEPTH AT PROPOSED CROSSING LOCATIONS.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE DRAWING OR NOT.
  - EXISTING STREET FURNITURE, SUCH AS BIKE RACKS, PICNIC TABLES, BENCHES AND GARBAGE BINS TO BE REMOVED, STORED ONSITE OR AT PCA COMPOUND DURING CONSTRUCTION AND REPLACED ONCE CONSTRUCTION IS COMPLETED, AS REQUIRED.
  - LOCATION AND NUMBER OF EXISTING STREET FURNITURE AS SHOWN IS APPROXIMATE, TO BE CONFIRMED ONSITE.
  - PEDESTRIAN ACCESS MUST BE MAINTAINED TO AT LEAST ONE SIDE OF BUILDING THROUGHOUT CONSTRUCTION.

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Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
<b>AECOM</b>	

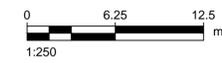
	Parks Canada Parcs Canada
Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord
<b>Canada</b>	

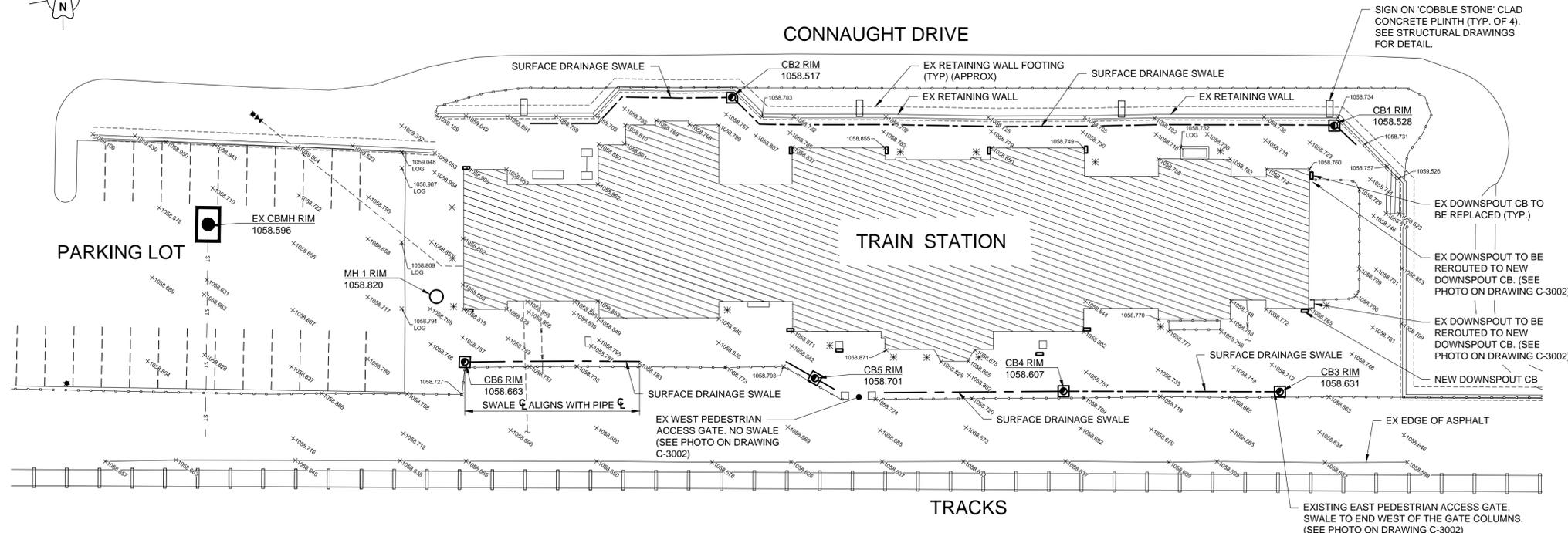
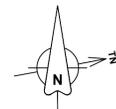
PERMIT TO PRACTICE AECOM CANADA LTD. Signature: <i>[Signature]</i> Date: <u>Apr 27 2018</u> PERMIT NUMBER: P10450 The Association of Professional Engineers and Geoscientists of Alberta	
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Project title/Titre du projet  
**JASPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
 EXISTING SITE CONDITIONS  
 AND REMOVAL PLAN**

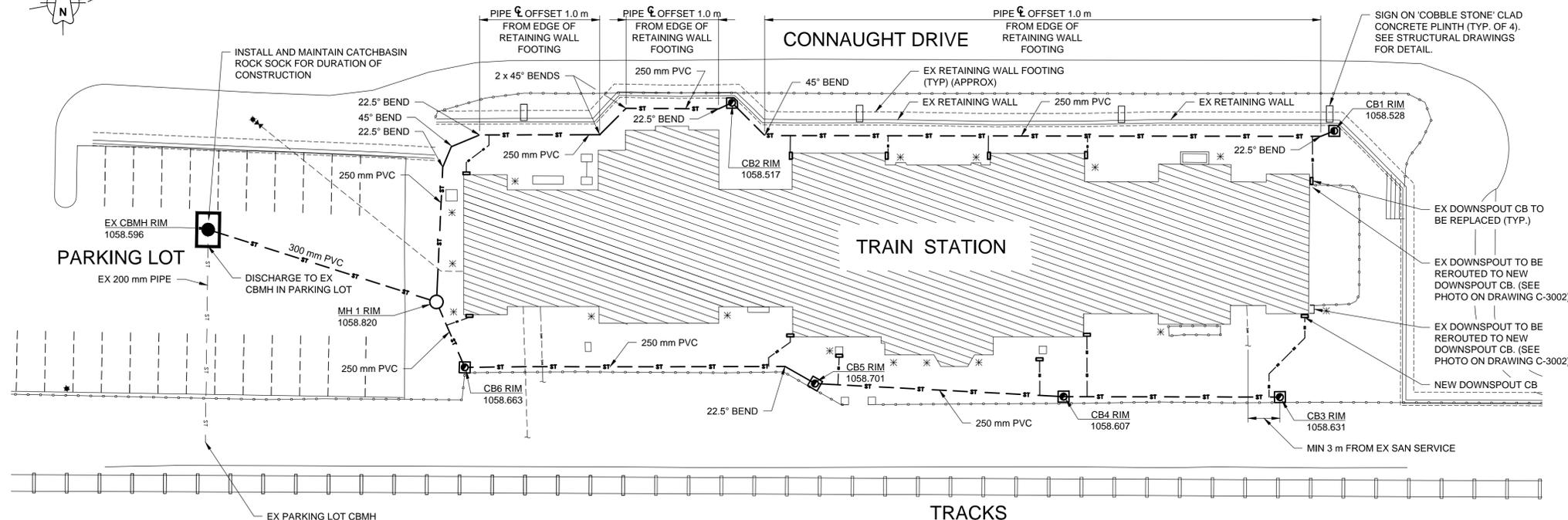
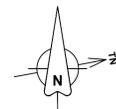
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Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./N° de la feuille 2 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-0002</b>





**SURFACE DRAINAGE**

NOTE: EXISTING ELEVATIONS SHOWN



**UNDERGROUND DRAINAGE**

**NOTES:**

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- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE DRAWINGS OR NOT.
- STORM SEWER AND DOWNSPOUT DRAINAGE PIPE (UNLESS NOTED OTHERWISE) ARE TO BE ASTM D3034 SDR 35 PVC. PIPE BEDDING SHALL CONFORM TO ASTM D2321.
- ALL PROPOSED CATCHBASINS ARE TO BE 600 mm DIAMETER WITH TYPE 8 FRAME AND COVER.
- ALL MAN-HOLES ARE STANDARD 1200 mm DIAMETER WITH NF 80 FRAME AND COVER UNLESS OTHERWISE NOTED.
- DOWNSPOUT DRAINAGE PIPE TO BE CONNECTED TO EXISTING DOWNSPOUT SUMPS.
- EXISTING PARKING LOT PAVEMENT STRUCTURE IS UNKNOWN. PARKING LOT SURFACE TO BE RESTORED TO ORIGINAL GRADES WITH AN EQUIVALENT STRUCTURE OR AS APPROVED BY THE ENGINEER.
- PAVING STONES ARE TO BE SALVAGED FOR RE-USE. EXISTING PAVING STONES AROUND BUILDING THAT NEED TO BE REMOVED ARE TO BE REMOVED, STORED ON SITE AND REPLACED WHEN SURFACE IS RESTORED.
- AFTER CONSTRUCTION IS COMPLETED, THE ENTIRE SEWER SYSTEM TO BE FLUSHED AND INSPECTED BY CCTV CAMERA.
- PAVING STONE SURFACE TO BE RESTORED AROUND EXISTING UTILITY APPURTENANCES, SUCH THAT FINISHED SURFACE IS LEVEL WITH NO TRIPPING HAZARDS.
- PAVING STONE SURFACE TO BE RESTORED TO EXISTING PATTERN AND WITH A MAXIMUM 5% POSITIVE GRADE AWAY FROM BUILDING.
- EXISTING STREET FURNITURE TO BE REMOVED, AS REQUIRED, STORED ONSITE OR AT PCA COMPOUND DURING CONSTRUCTION AND REPLACED ONCE CONSTRUCTION IS COMPLETE.

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Revision / Revision

<b>A</b>	Detail number	A Numéro de détail
<b>B</b>	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil



Eng. Stamp / Scellé de l'ingénieur

Parks Canada / Parcs Canada  
 Asset Management / Gestion des biens  
 Western and Northern Region / Région de l'Ouest et du Nord



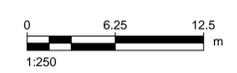
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 Signature: *[Signature]*  
 Date: *Apr 27 2018*  
 PERMIT NUMBER: P10450  
 The Association of Professional Engineers and Geoscientists of Alberta



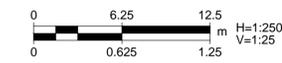
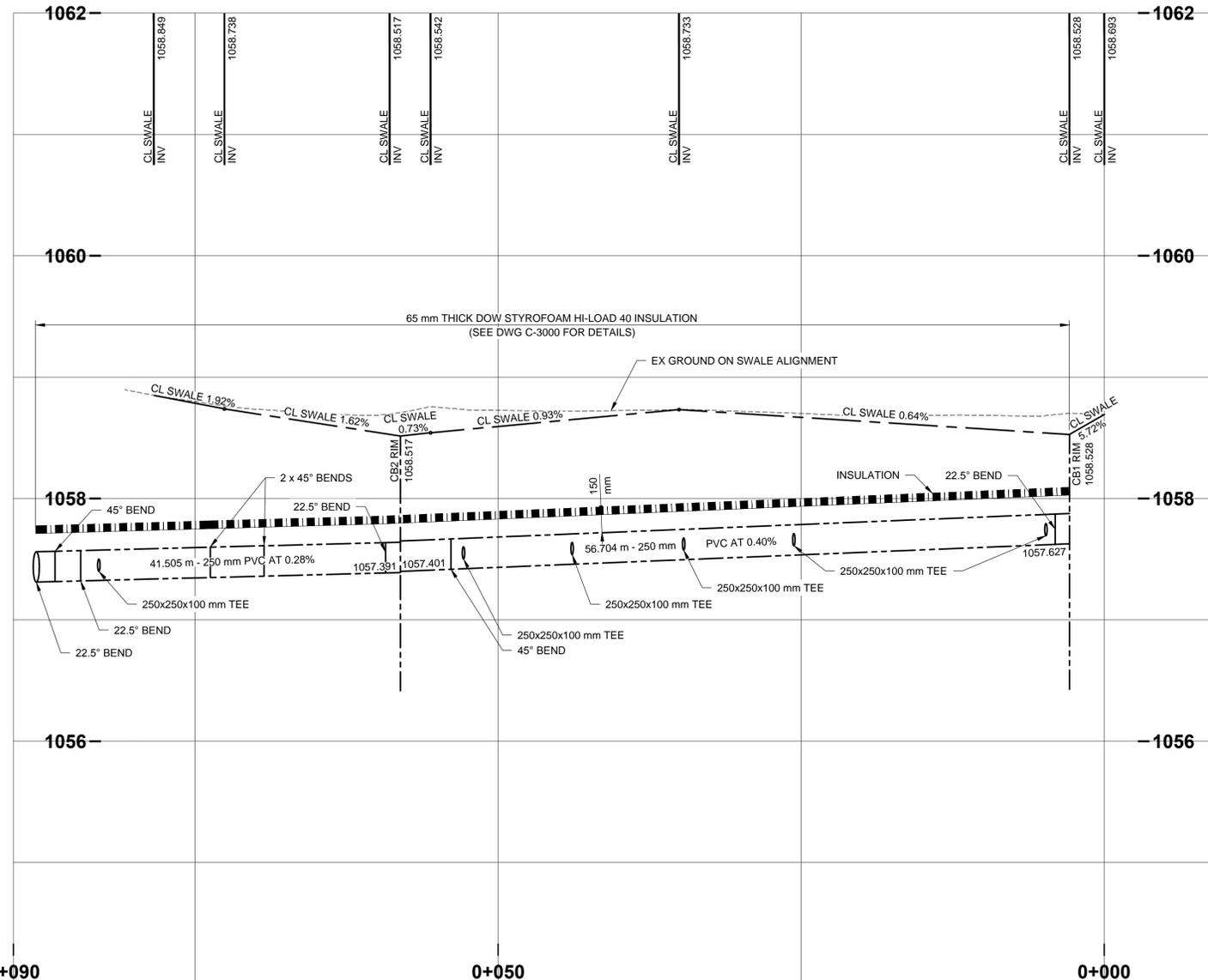
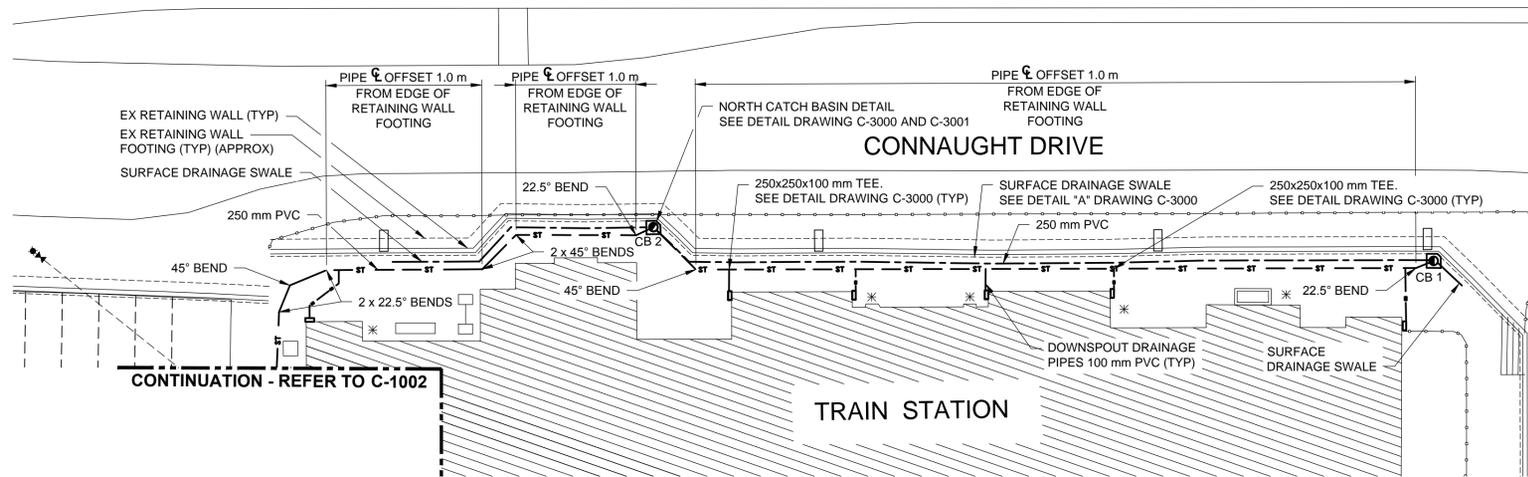
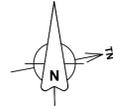
Project Title/Titre du projet  
**JAPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing Title/Titre du dessin  
**EXTERIOR DRAINAGE  
 OVERALL SITE DRAINAGE  
 PLAN**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Échelle NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./ N° de la feuille 3 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-0003</b>



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  - ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE DRAWINGS OR NOT.
  - STORM SEWER AND DOWNSPOUT DRAINAGE PIPE ALTERNATIVES (UNLESS NOTED OTHERWISE) ARE TO BE ASTM D3034 SDR 35 PVC. PIPE BEDDING SHALL CONFORM TO ASTM D2321.
  - ALL PROPOSED CATCHBASINS ARE TO BE 600 mm DIAMETER WITH TYPE 8 FRAME AND COVER.
  - ALL MANHOLES ARE STANDARD 1200 mm DIAMETER WITH NF 80 FRAME AND COVER UNLESS OTHERWISE NOTED.
  - DOWNSPOUT DRAINAGE PIPE TO BE CONNECTED TO EXISTING DOWNSPOUT SUMPS.
  - EXISTING PARKING LOT PAVEMENT STRUCTURE IS UNKNOWN. PARKING LOT SURFACE TO BE RESTORED TO ORIGINAL GRADES WITH AN EQUIVALENT STRUCTURE OR AS APPROVED BY THE ENGINEER.
  - PAVING STONES ARE TO BE SALVAGED FOR REUSE. EXISTING PAVING STONES AROUND BUILDING THAT NEED TO BE REMOVED ARE TO BE REMOVED, STORED ONSITE AND REPLACED WHEN SURFACE IS RESTORED.
  - AFTER CONSTRUCTION IS COMPLETED, THE ENTIRE SEWER SYSTEM TO BE FLUSHED AND INSPECTED BY CCTV CAMERA.

F	18/04/27	RE-ISSUED FOR TENDER	DT	KL
E	17/12/08	ISSUED FOR TENDER	DT	KL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
<b>A</b>	Detail number A Numéro de détail
<b>B</b>	Sheet number B Numéro de la feuille
Linear dimensions in millimetres	
Dimensions linéaires en millimètres	

Consultant's Name  
Nom de l'expert-conseil

**AECOM**

Eng. Stamp  
Sceau de l'ingénieur

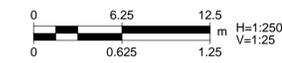
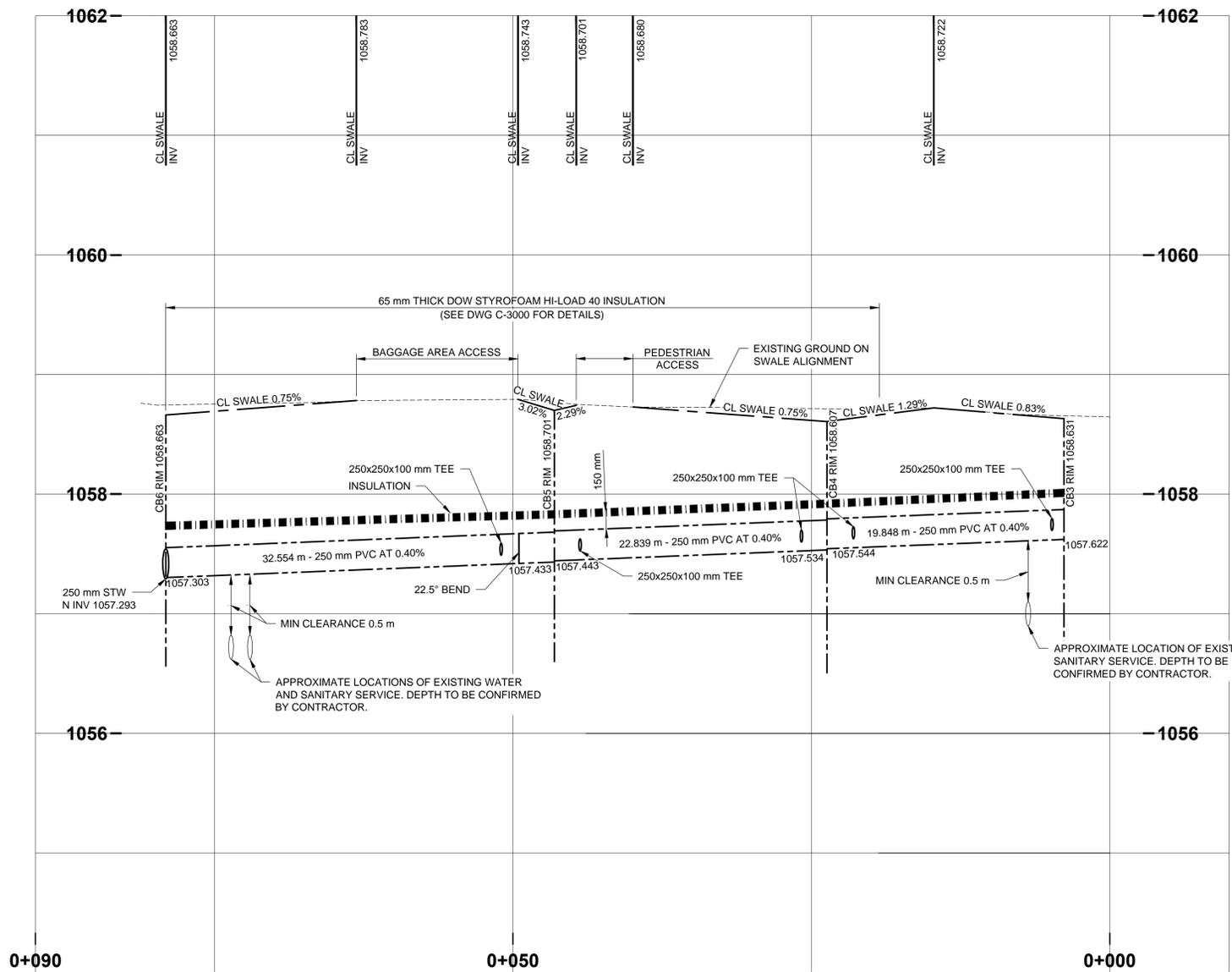
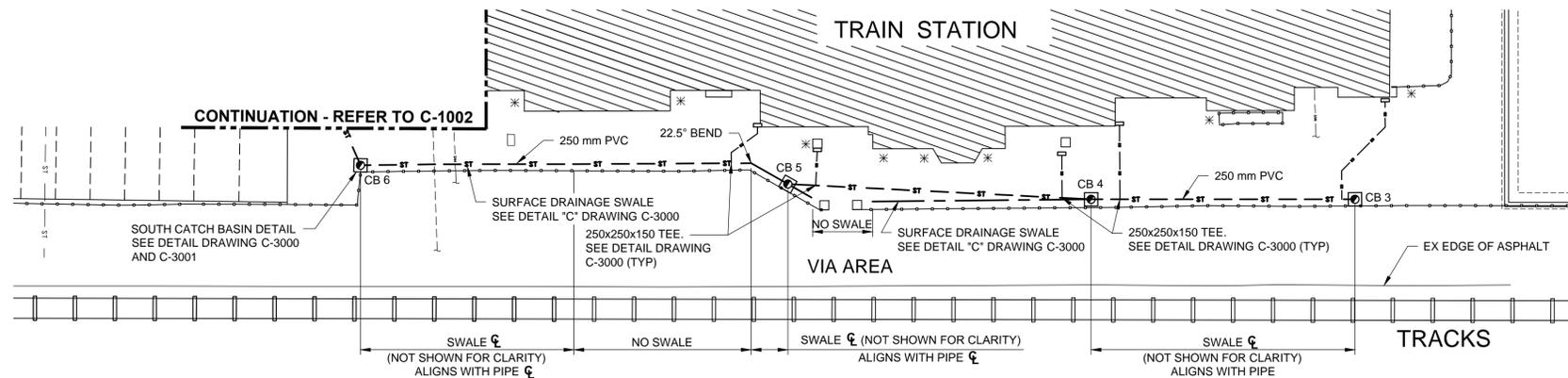
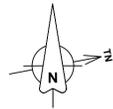
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Date: *Apr 27 2018*  
PERMIT NUMBER: P10450  
The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER ALBERTA  
THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF ALBERTA  
APR 27 2018

Project title/Titre du projet  
**JASPER NATIONAL PARK  
JASPER HERITAGE  
TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
PLAN AND PROFILE  
SHEET 1**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Échelle H = 1:250 / V = 1:25
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./ N° de la feuille 4 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-1000</b>



- NOTES:**
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  - EXISTING PARKING LOT PAVEMENT STRUCTURE IS UNKNOWN. PARKING LOT SURFACE TO BE RESTORED TO ORIGINAL GRADES WITH AN EQUIVALENT STRUCTURE OR AS APPROVED BY THE ENGINEER.
  - PAVING STONES ARE TO BE SALVAGED FOR REUSE. EXISTING PAVING STONES AROUND BUILDING THAT NEED TO BE REMOVED ARE TO BE REMOVED, STORED ONSITE AND REPLACED WHEN SURFACE IS RESTORED.
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Consultant's Name / Nom de l'expert-conseil: **AECOM**

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Parcs Canada / Parc Canada

Asset Management Western and Northern Region / Gestion des biens Région de l'Ouest et du Nord

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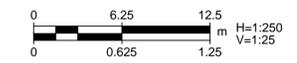
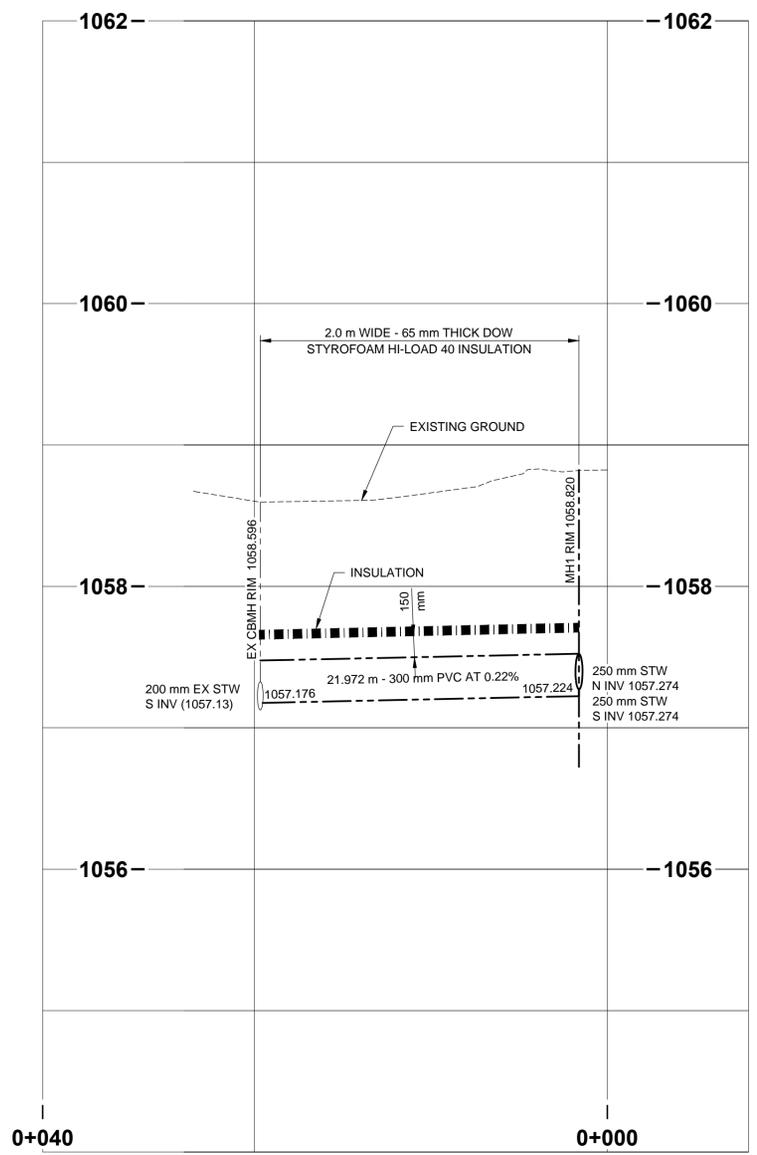
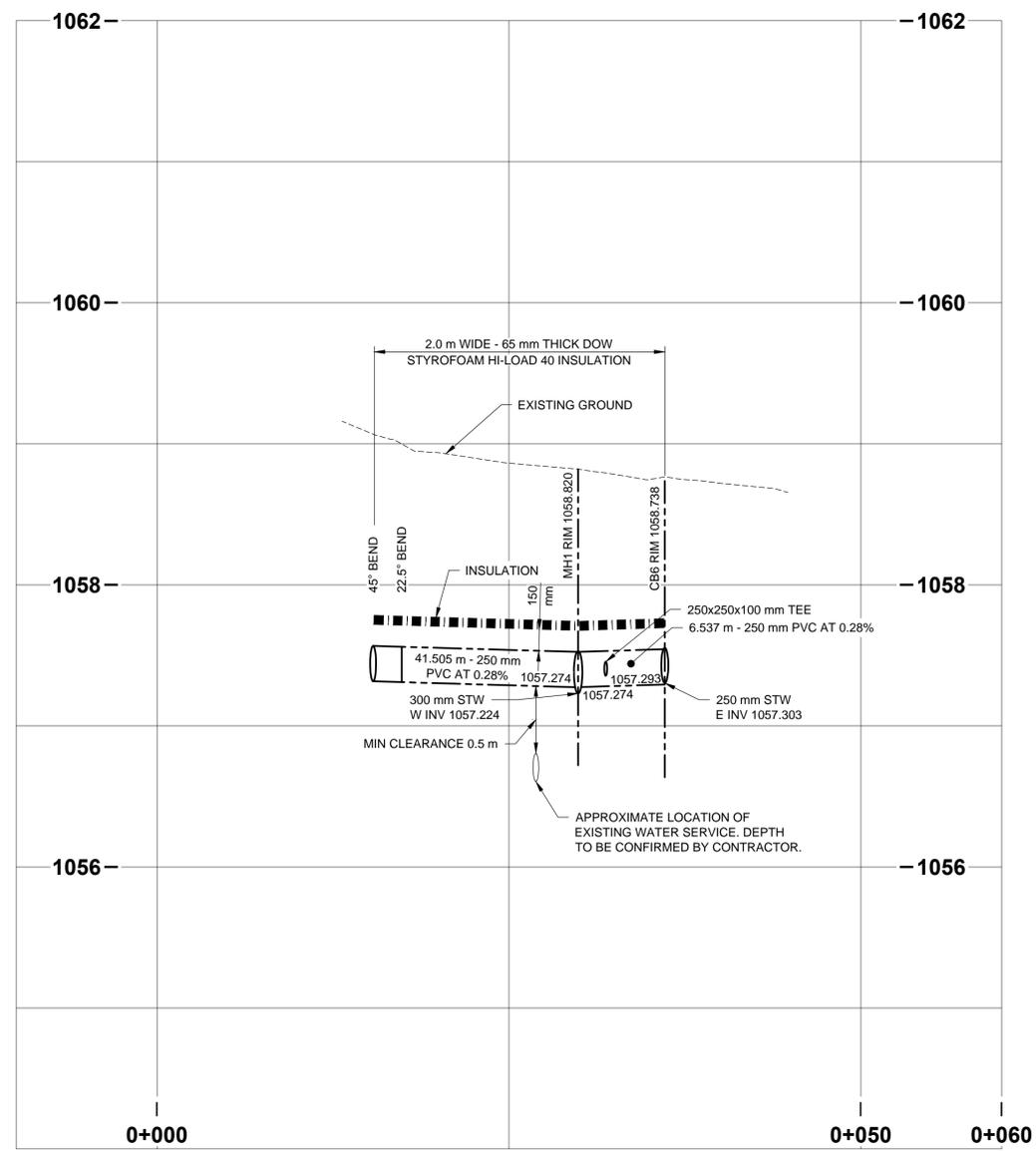
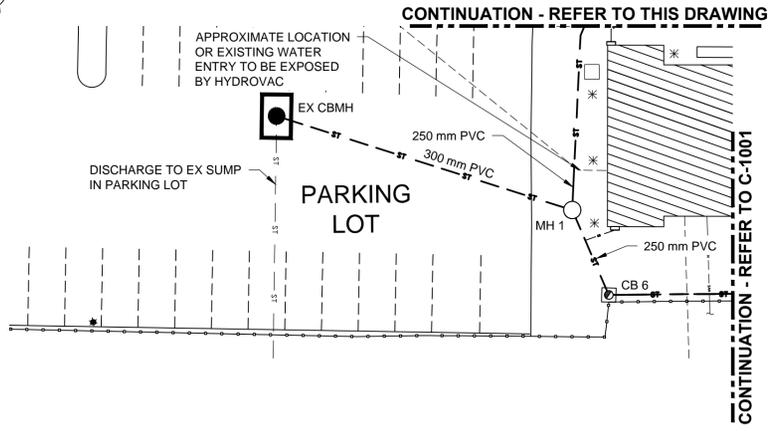
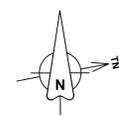
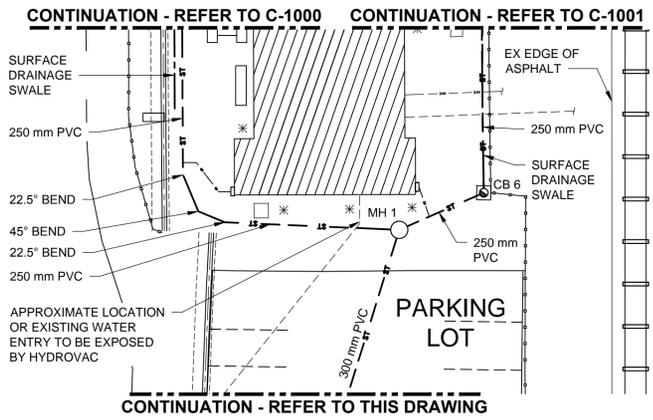
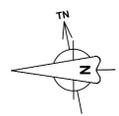
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PROFESSIONAL ENGINEER ALBERTA  
[Stamp]

Project title/Titre du projet  
**JASPER NATIONAL PARK  
JASPER HERITAGE  
TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
PLAN AND PROFILE  
SHEET 2**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
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Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-1001</b>



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  - DOWNSPOUT DRAINAGE PIPE TO BE CONNECTED TO EXISTING DOWNSPOUT SUMPS.
  - EXISTING PARKING LOT PAVEMENT STRUCTURE IS UNKNOWN. PARKING LOT SURFACE TO BE RESTORED TO ORIGINAL GRADES WITH AN EQUIVALENT STRUCTURE OR AS APPROVED BY THE ENGINEER.
  - PAVING STONES ARE TO BE SALVAGED FOR REUSE. EXISTING PAVING STONES AROUND BUILDING THAT NEED TO BE REMOVED ARE TO BE REMOVED, STORED ONSITE AND REPLACED WHEN SURFACE IS RESTORED.
  - AFTER CONSTRUCTION IS COMPLETED, THE ENTIRE SEWER SYSTEM TO BE FLUSHED AND INSPECTED BY CCTV CAMERA.

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Parcs Canada / Parcés Canada  
 Asset Management / Gestion des biens  
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**Canada**

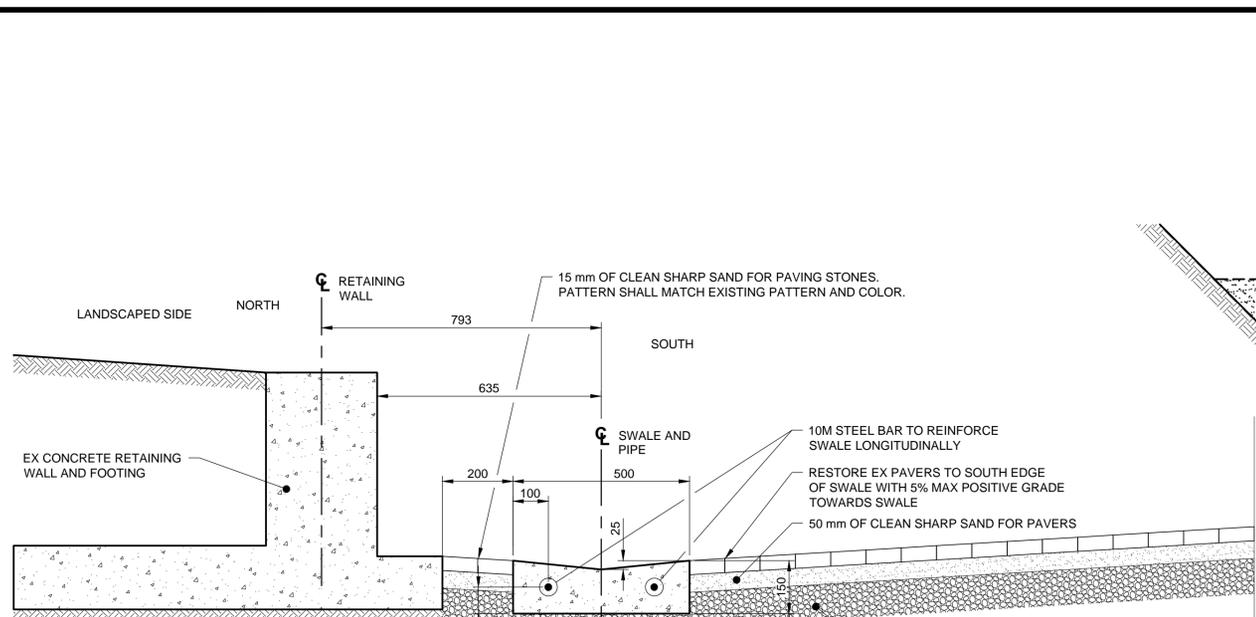
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 Date: *Apr 27 2018*  
 PERMIT NUMBER: P10450  
 The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER ALBERTA  
 [Stamp] APR 27 2018

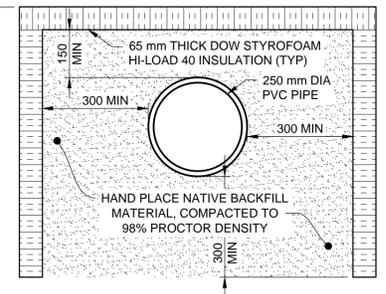
Project title/Titre du projet  
**JASPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
 PLAN AND PROFILE  
 SHEET 3**

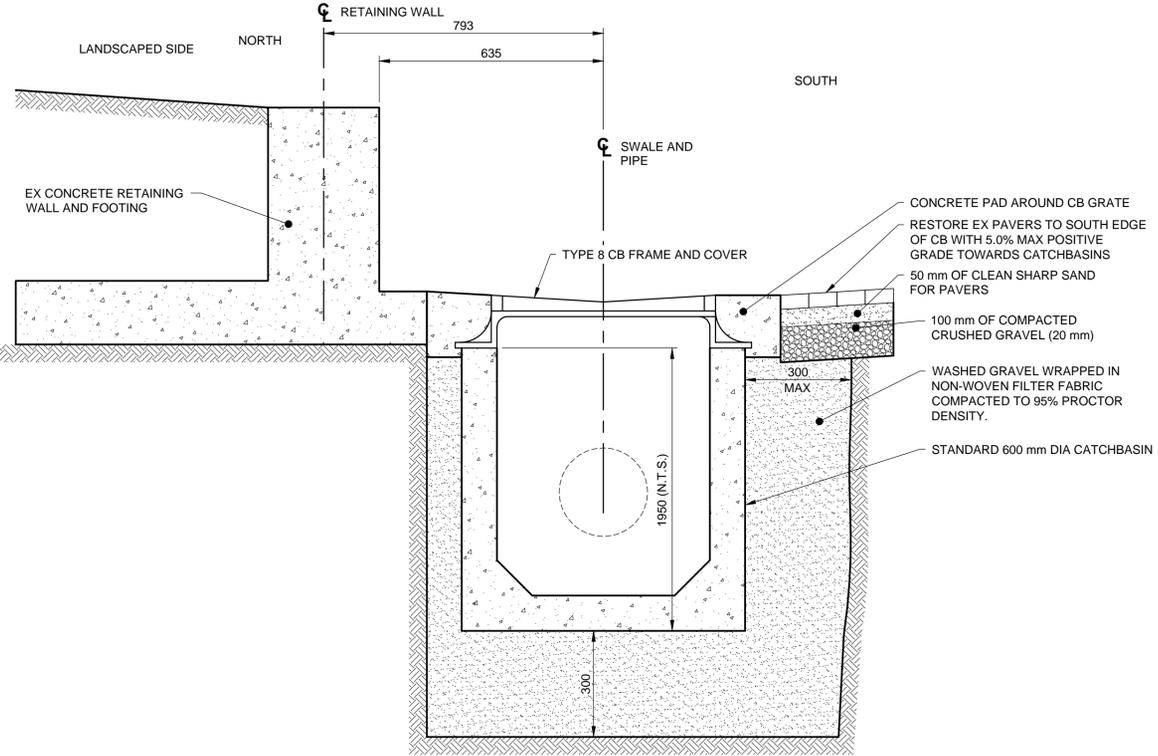
Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Echelle NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./N° de la feuille 6 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-1002</b>



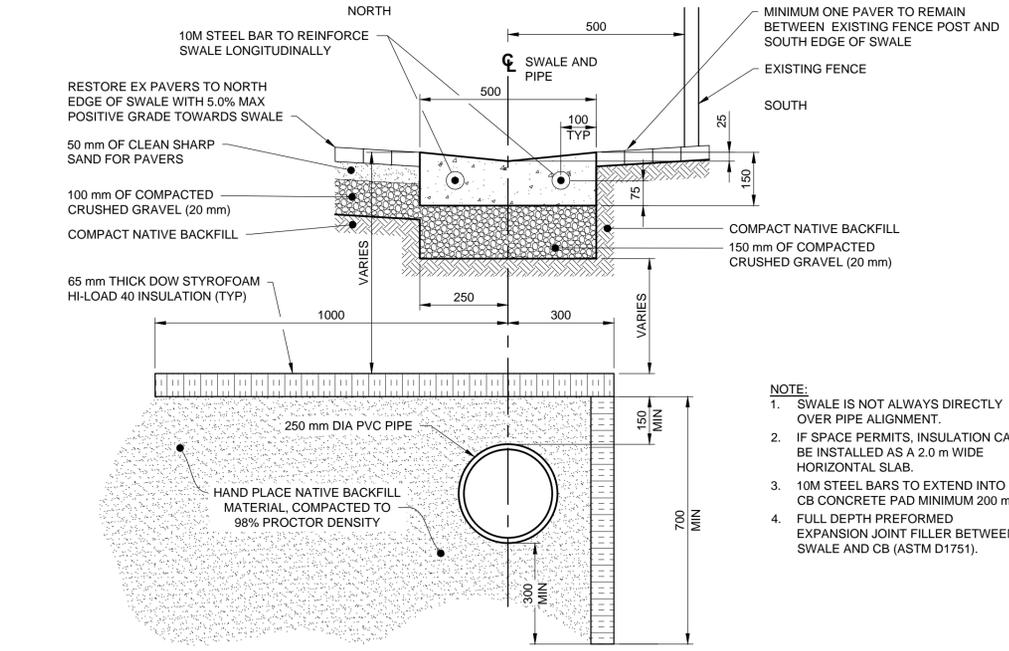
- NOTE:**
- IF SPACE PERMITS, INSULATION CAN BE INSTALLED AS A 2.0 m WIDE HORIZONTAL SLAB OR HORIZONTAL SLAB 1.0 m FROM CENTERLINE OF PIPE.
  - INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
  - 10M STEEL BARS TO EXTEND INTO CB CONCRETE PAD MINIMUM 200 mm.
  - FULL DEPTH PREFORMED EXPANSION JOINT FILLER BETWEEN SWALE AND CB (ASTM D1751).
  - TYPICAL EXISTING RETAINING WALL CONFIGURATION SHOWN. SEE STRUCTURAL DRAWINGS FOR RETAINING WALL MODIFICATIONS.



**DETAIL "A" - NORTH SWALE AND PIPE CROSS SECTION**  
N.T.S.

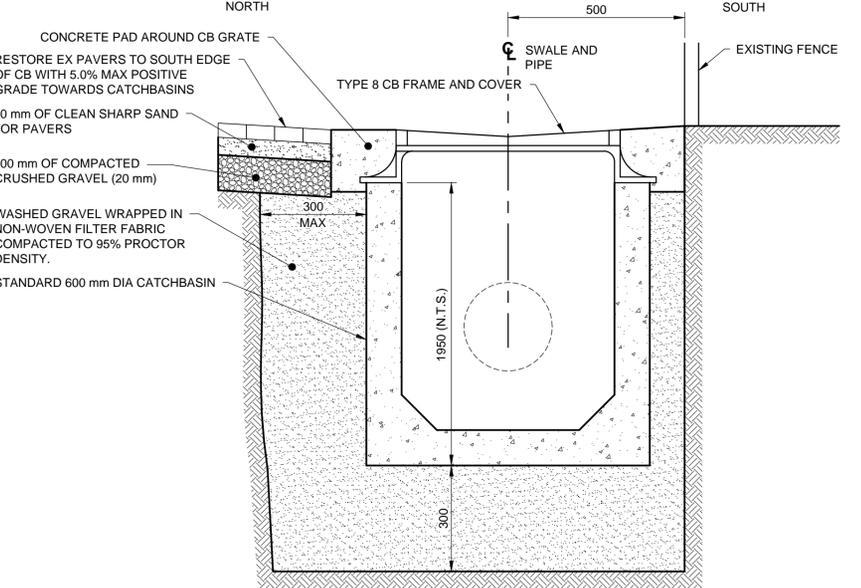


**DETAIL "B" - NORTH CATCHBASINS CROSS SECTION**  
N.T.S.

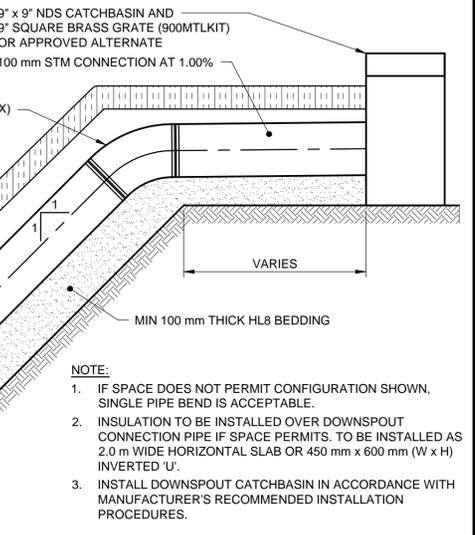


- NOTE:**
- SWALE IS NOT ALWAYS DIRECTLY OVER PIPE ALIGNMENT.
  - IF SPACE PERMITS, INSULATION CAN BE INSTALLED AS A 2.0 m WIDE HORIZONTAL SLAB.
  - 10M STEEL BARS TO EXTEND INTO CB CONCRETE PAD MINIMUM 200 mm.
  - FULL DEPTH PREFORMED EXPANSION JOINT FILLER BETWEEN SWALE AND CB (ASTM D1751).

**DETAIL "C" - SOUTH SWALE AND PIPE-CROSS SECTION**  
N.T.S.



**DETAIL "D" - SOUTH CATCHBASINS CROSS SECTION**  
N.T.S.



- NOTE:**
- IF SPACE DOES NOT PERMIT CONFIGURATION SHOWN, SINGLE PIPE BEND IS ACCEPTABLE.
  - INSULATION TO BE INSTALLED OVER DOWNSPOUT CONNECTION PIPE IF SPACE PERMITS. TO BE INSTALLED AS 2.0 m WIDE HORIZONTAL SLAB OR 450 mm x 600 mm (W x H) INVERTED 'U'.
  - INSTALL DOWNSPOUT CATCHBASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.

**RISER DETAIL - DOWNSPOUT CONNECTION**  
N.T.S.

**NOTES:**  
1. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

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E	17/12/08	ISSUED FOR TENDER	DT	KL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	Detail number A Numéro de détail
B	Sheet number B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp / Sceau de l'ingénieur: [Stamp]

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Asset Management Western and Northern Region / Gestion des biens Région de l'Ouest et du Nord

**Canada**

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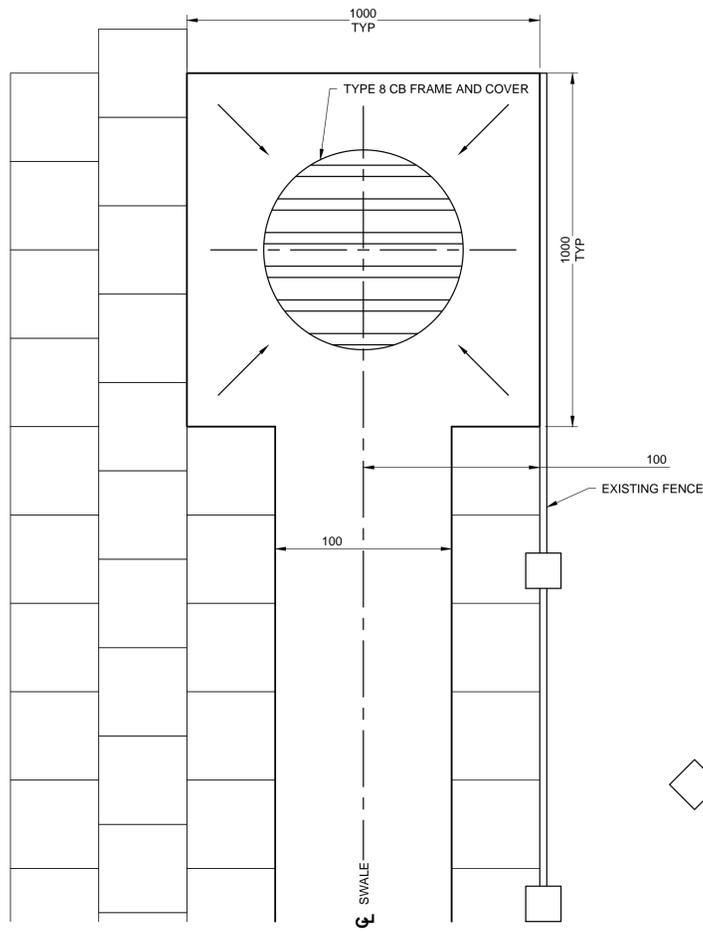
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PROFESSIONAL ENGINEER ALBERTA  
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Project title/Titre du projet:  
**JASPER NATIONAL PARK  
JASPER HERITAGE  
TRAIN STATION**

Drawing title/Titre du dessin:  
**EXTERIOR DRAINAGE  
SECTIONS AND DETAILS  
SHEET 1**

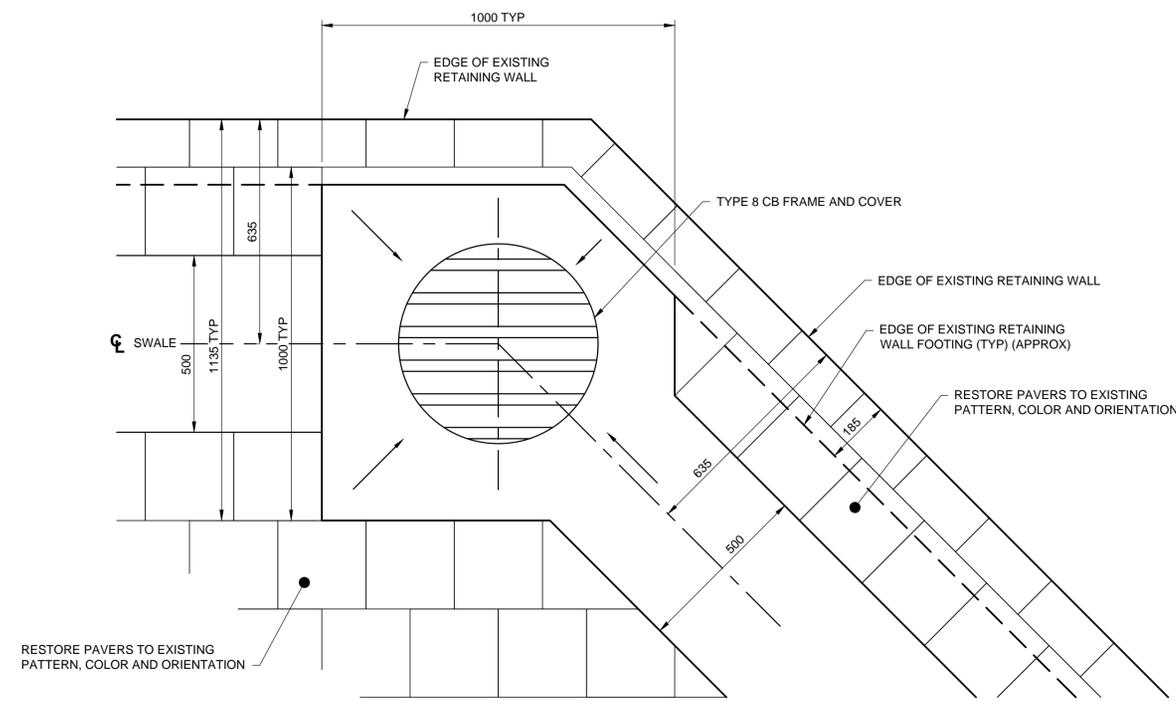
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Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Echelle NTS
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date	Date	Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./N° de la feuille 7 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-3000</b>



**DETAIL - SWALE WITH TYPE 8 CATCHBASIN FOR CB3, CB4 AND CB6**

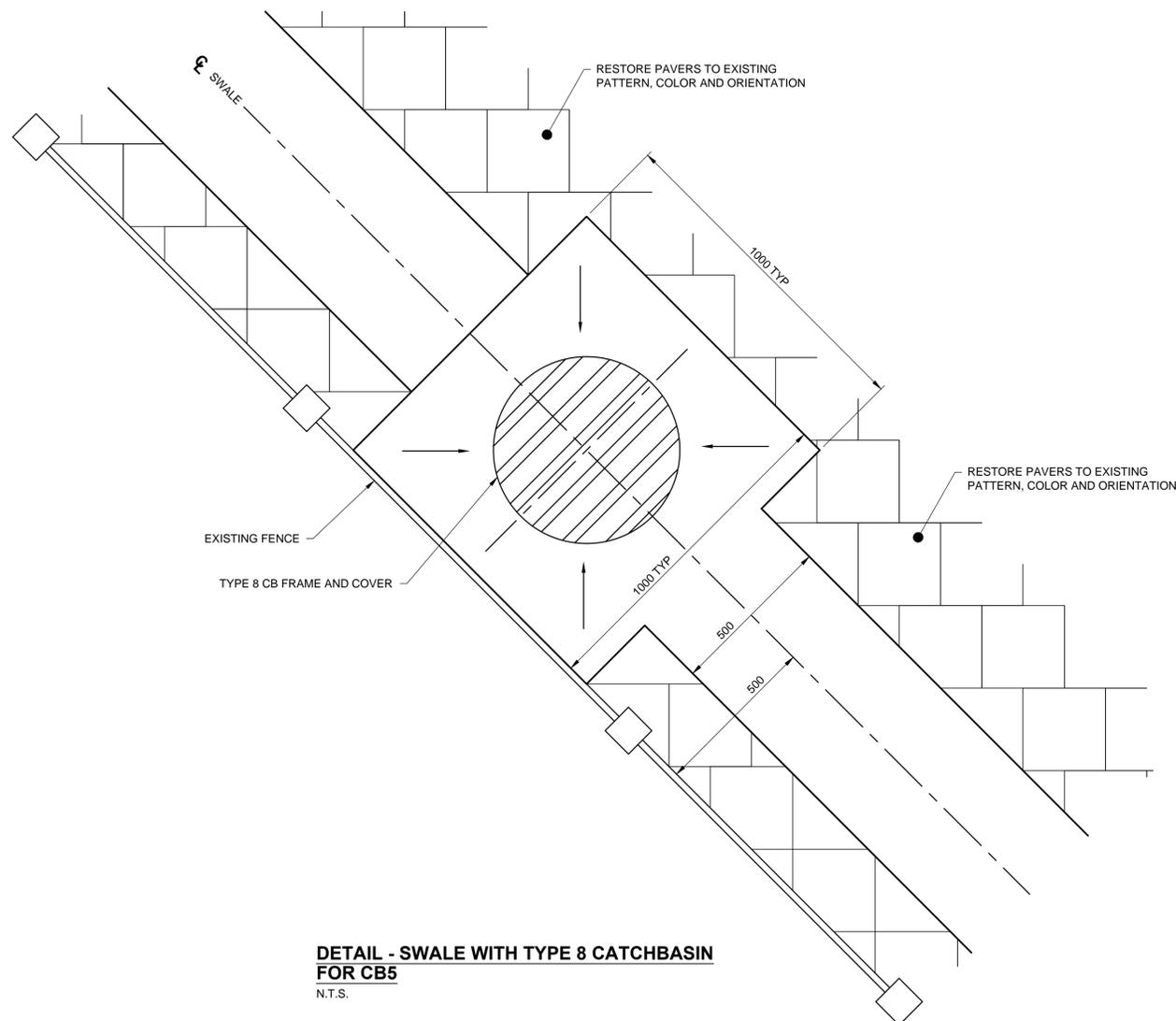
N.T.S.

NOTE: CB4 HAS SWALE ENTERING CATCHBASIN CONCRETE PAD FROM BOTH SIDES.



**DETAIL - SWALE WITH TYPE 8 CATCHBASIN FOR CB1 AND CB2**

N.T.S.



**DETAIL - SWALE WITH TYPE 8 CATCHBASIN FOR CB5**

N.T.S.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

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E	17/12/08	ISSUED FOR TENDER	DT	KL
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Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name  
Nom de l'expert-conseil



Eng. Stamp  
Sceau de l'ingénieur

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 Western and Northern Region      Région de l'Ouest et du Nord



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Project title/Titre du projet  
**JASPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
 SECTIONS AND DETAILS  
 SHEET 2**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
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Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./N° de la feuille 8 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-3001</b>



**EXISTING EAST PEDESTRIAN ACCESS GATE**

N.T.S.

**NOTES:**

1. PHOTO LOOKING SOUTHEAST.
2. SWALE TO END WEST OF EXISTING GATE COLUMNS.



**EXISTING WEST PEDESTRIAN ACCESS GATE**

N.T.S.

**NOTES:**

1. PHOTO LOOKING SOUTHEAST.
2. NO SWALE TO BE CONSTRUCTED ACROSS PEDESTRIAN ACCESS.
3. STORM SEWER TO RUN NORTH AROUND EXISTING GATE COLUMNS.



**EXISTING DOWNSPOUT ON NE CORNER OF BUILDING**

N.T.S.

**NOTES:**

1. PHOTO LOOKING WEST.
2. DOWNSPOUT GRATE AND CATCHBASIN TO BE REPLACED WITH NEW CATCHBASIN AND LEAD.
3. DOWNSPOUT TO BE REROUTED TO NEW DOWNSPOUT CATCHBASIN.



**EXISTING DOWNSPOUT ON SE CORNER OF BUILDING**

N.T.S.

**NOTES:**

1. PHOTO LOOKING WEST (IMAGE FROM GOOGLE MAPS).
2. DOWNSPOUT CURRENTLY DISCHARGES DIRECTING INTO WINDOW WELL GARDEN. THERE IS NO EXISTING DOWNSPOUT CATCHBASIN AT THIS LOCATION.
3. NEW DOWNSPOUT CATCHBASIN TO BE INSTALLED ON SOUTH SIDE OF BUILDING.
4. DOWNSPOUT TO BE REROUTED TO NEW DOWNSPOUT CATCHBASIN.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

F	18/04/27	RE-ISSUED FOR TENDER	DT	KL
E	17/12/08	ISSUED FOR TENDER	DT	KL
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<b>A</b>	Detail number	A Numéro de détail
<b>B</b>	Sheet number	B Numéro de la feuille

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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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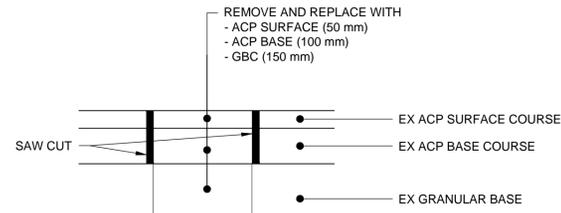
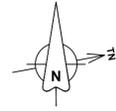
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<b>Canada</b>	

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Project title/Titre du projet  
**JASPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing title/Titre du dessin  
**EXTERIOR DRAINAGE  
 PHOTOS**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par DT	Date 17/12/08
Designed by/Concept par KL	Reviewed by/Revisé par CK	Scale/Echelle NTS
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./N° de la feuille 9 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-3002</b>



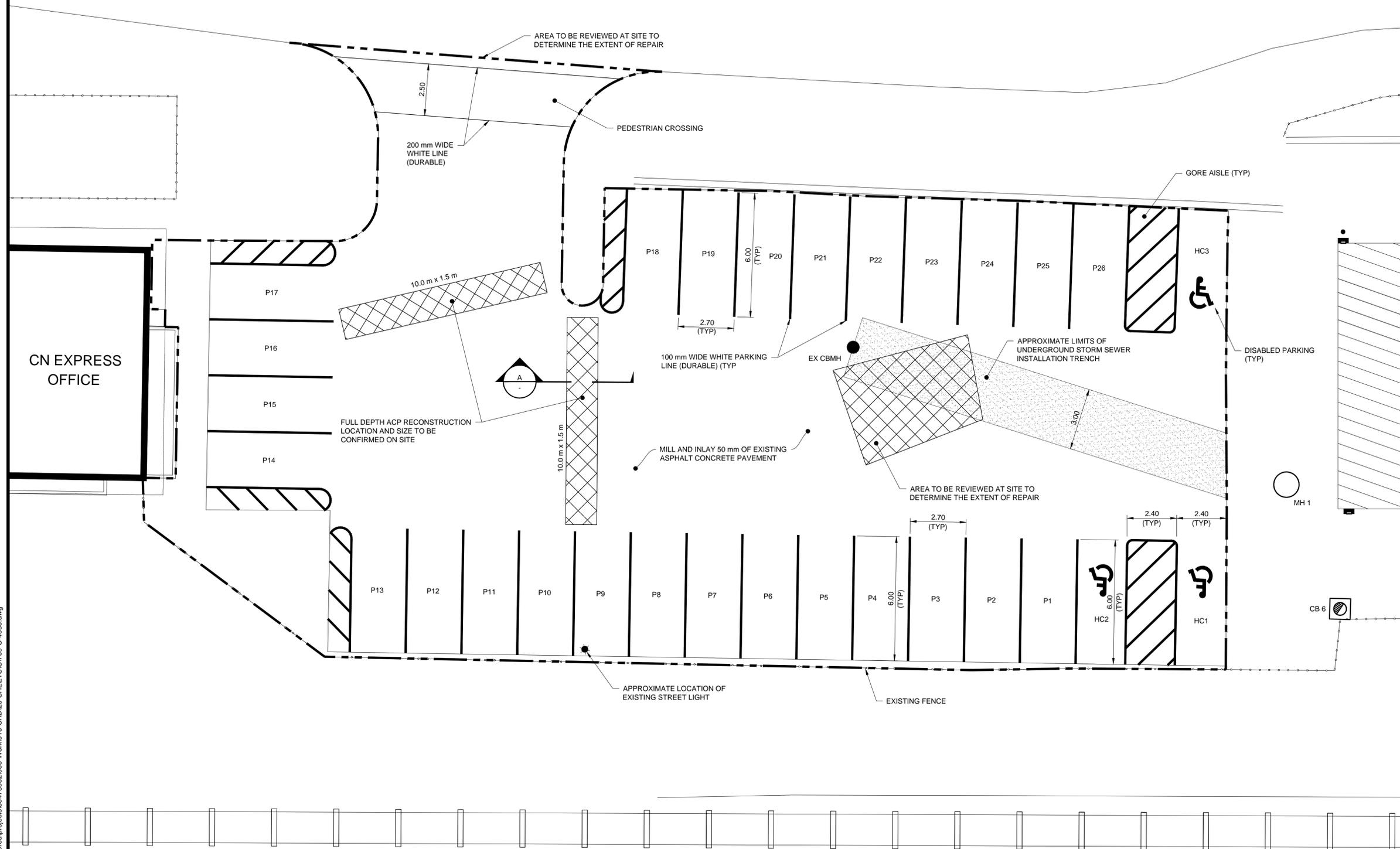
**SECTION A**  
Scale: NTS

**GENERAL NOTES:**

1. ALL DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
2. LOCATIONS AND AREAS THAT REQUIRE FULL DEPTH RECONSTRUCTION TO BE CONFIRMED ONSITE.
3. EXISTING PAVEMENT STRUCTURE TO BE CONFIRMED ONSITE.

**LEGEND:**

- LIMIT OF PARKING LOT SURFACE REPAIR AND OVERLAY
- FULL DEPTH RECONSTRUCTION
- UNDERGROUND STORM SEWER INSTALLATION TRENCH (APPROXIMATE)



D	19.06.11	RE-ISSUED FOR TENDER	DT	VW
C	19.05.30	ISSUED FOR REVIEW	JB	SP
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Revision / Revision				

(A)	Detail number	A Numéro de détail
(B)	Sheet number	B Numéro de la feuille
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Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur
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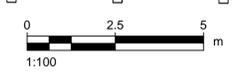
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Project title/Titre du projet  
**JASPER NATIONAL PARK  
 JASPER HERITAGE  
 TRAIN STATION**

Drawing title/Titre du dessin  
**PARKING LOT  
 REPAIR AND OVERLAY**

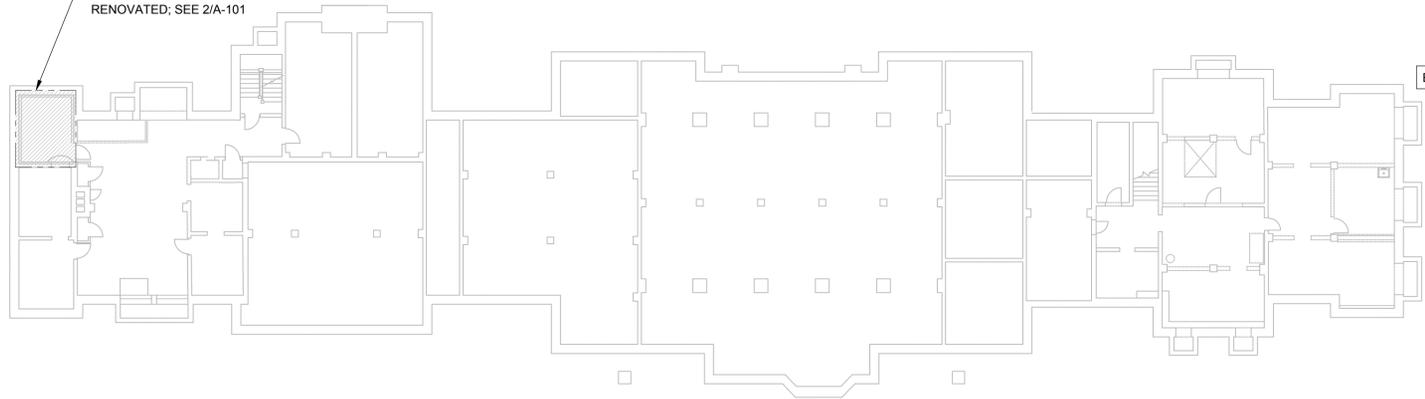
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Designed by/Concept par SP	Reviewed by/Revisé par KL	Scale/Echelle NOTED
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Date		Date
Project No./N° du projet 709	Asset No./N° du bien	Sheet No./ N° de la feuille 10 OF 10
Drawing Set No./N° de série du dessin		Drawing No./N° de dessin <b>C-4000</b>



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EXTENT OF FLOOR AREA TO BE RENOVATED; SEE 2/A-101



**1 | EXISTING BASEMENT PLAN**  
A-101 | APPROXIMATE SCALE 1:225

- ABBREVIATIONS**
- EP-F - EPOXY FINISH
  - EX-C - EXISTING CONCRETE
  - TYP - TYPICAL
- LEGEND**
- INDICATES FINISH
  - KEYNOTES
  - ROOM NUMBER APPLIED FOR PROJECT PURPOSES



JASPER RAILWAY STATION PHOTO DATE: NOVEMBER 2015  
607 CONNAUGHT DRIVE  
JASPER, ALBERTA, CANADA



E 19/06/25 ISSUED FOR TENDER JK IH

D	17/12/08	ISSUED FOR TENDER	JK	IH
C	17/08/22	ISSUED FOR 100%	JK	IH
B	17/06/07	ISSUED FOR 95% REVIEW	JK	IH
A	16/10/28	ISSUED FOR 60% REVIEW	JK	IH
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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**Canada**

Project Title/Titre du projet

JASPER NATIONAL PARK  
JASPER TRAIN STATION

Drawing Title/Titre du dessin

EXISTING BASEMENT PLAN  
&  
GENERAL NOTES

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	JK	19/06/03

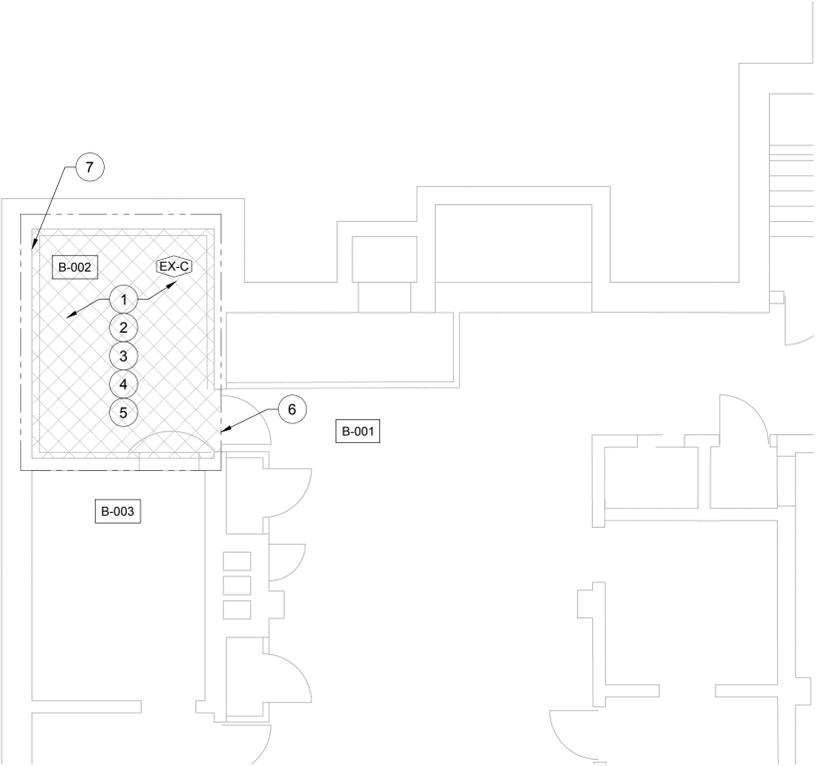
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Client Acceptance/Acceptation du client	Approved by/Approuvé par

Project No./N° du projet	Asset No./N° du bien	Sheet No./ N° de la feuille
709		1 OF 2

Drawing Set No./N° de série du dessin	Drawing No./N° de dessin
	A-101

- GENERAL NOTES:**
- THESE DRAWINGS FOCUS ON THE INDICATED ROOM OF THE BASEMENT COMPARTMENT OF THE BUILDING.
  - THE NATURE OF FINISH APPLICATION AND REPAIR OF THE BASEMENT SPACE WILL NOT IMPACT THE PRESERVATION OF THE CHARACTER OF THE BUILDING.
  - THE REPAIR AND ADDITION OF A TOPPING OR PAINT WILL BE WITHIN AN ACCEPTED LEVEL OF ENGAGEMENT AND WILL NOT IMPACT NEGATIVELY ANY PART OF THE AESTHETIC FEATURES THAT WERE PART OF THE ORIGINAL BUILDING.
  - PATCH, REPAIR AND REFINISH ALL EXISTING SURFACES AND MATERIALS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
  - ENSURE THAT SURFACE PREPARATION AND SHOP PRIMERS COMPLY WITH FINISHING PAINT SYSTEM SPECIFIED.
  - PREPARE AND TOUCH UP ANY DAMAGED FINISH WITH SAME TYPE, QUALITY, AND COLOUR OF PAINT AS ORIGINALLY USED OR APPROVED EQUAL.
  - DO NOT PAINT ALUMINUM, STAINLESS STEEL OR RUBBER SURFACES AND NAMEPLATES UNLESS OTHERWISE NOTED.
  - THE INTENT IS TO REMOVE DAMAGED WALLS AND CONCRETE AND RESURFACE THE FLOOR AND FINISH THE ROOM DAMAGED BY FLOODING.
  - REMOVE ALL FLOOR CABINETS, EQUIPMENT AND OTHER MISCELLANEOUS ITEMS FOR APPLICATION OF NEW FLOOR AND WALLS. REINSTALL AFTER FLOOR INSTALLATION.
  - PAINT COLOURS TO MATCH EXISTING

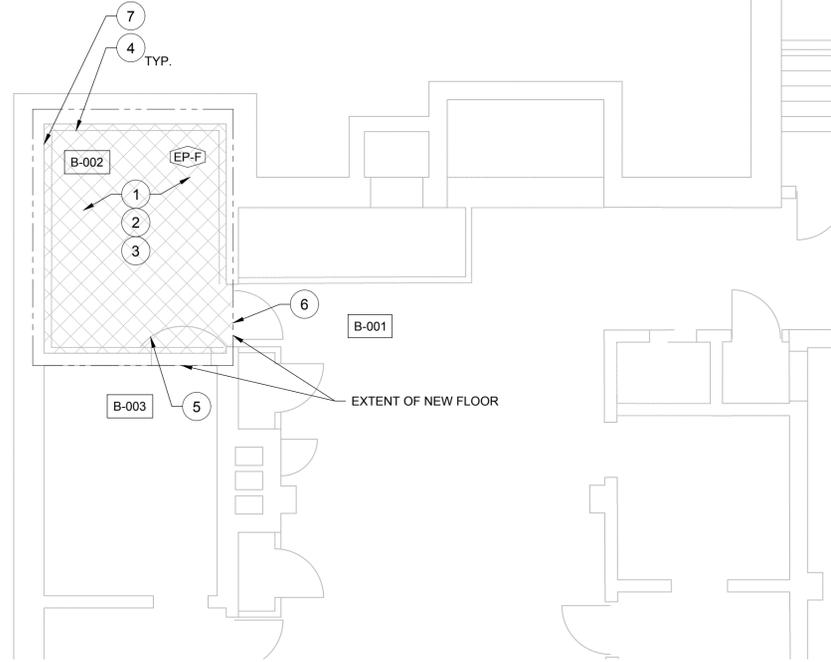
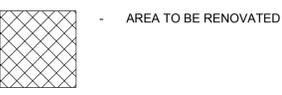


**2 | DEMOLITION PLAN**  
A-101 | APPROXIMATE SCALE 1:75

- KEYNOTES:**
- REMOVE COMPLETE CONCRETE TOPCOAT FROM FLOORING WITHIN ROOM; SEE IMAGE 1/A-102
  - DEMOLISH LOOSE AND DAMAGED SUB-CONCRETE FLOOR TO DEPTH NO GREATER THAN 25 mm TO REMOVE FLOOD-AFFECTED CONCRETE; PREP AND CLEAN AS REQUIRED FOR NEW FLOOR TOPPING
  - REMOVE DAMAGED PAINTED PLYWOOD UP TO 610 mm AND WHERE NOTICEABLY DAMAGED BY WATER OR OTHER CONTAMINANTS PATCH, REPAIR, PAINT AND MATCH TO GOOD CONDITION EXISTING. SEE IMAGE 2/A-102
  - REMOVE PAINT UP TO 610 mm AT MASONRY WALLS. PATCH AND REPAIR CONCRETE WALLS. SEE IMAGE 2/A-102
  - REMOVE AND SALVAGE EXISTING BASE BOARDS. PATCH AND REPAIR WALL, REFINISH BASE BOARDS TO GOOD QUALITY AND REINSTALL.
  - CLEAN DOOR FRAMES AND SCRAPE OFF ANY EXISTING PAINT TO 610 mm ABOVE FINISHED FLOOR AND PREP FOR REPAINTING. SEE IMAGE 2/A-102
  - CONTRACTOR TO REMOVE (2) CONDUIT PIPES IN EXTERIOR WALL RUNNING FROM EXTERIOR TO INTERIOR. SEE IMAGE 3/A-102 FOR ADDITIONAL NOTES.

- DEMOLITION NOTES:**
- APPLY TO ENTIRE ROOM RENOVATION OF AREA INDICATED AND STOP AT EDGE OF FLOORING TO OUTER FACE OF DOOR OR OPENING TO NEXT COMPARTMENT SPACE/ROOM.

**FLOORING LEGEND:**



**3 | NEW CONSTRUCTION PLAN**  
A-101 | APPROXIMATE SCALE 1:75

- KEYNOTES:**
- INSTALL A NEW POURED MORTARED FLOOR IN THE FORM OF A CONCRETE FILL SELF-LEVELING SYSTEM TO RESURFACE FLOOR.
  - SECOND COAT AND FINISH SURFACE WITH 2-COMPONENT EPOXY PAINT FINISH OVER FLOOR AND WALL COVING. BASE COLOUR WHITE UNLESS OTHERWISE SPECIFIED BY CLIENT.
  - COVE CONCRETE TOPPING 75mm UP WALL WITH MORTARED FLOOR AND SURFACE COAT AT WALL LOCATIONS AT UP TO DOOR FRAMES/OPENINGS. TOP OF COVE TO BE FEATHERED INTO WALL ABOVE. BASE COLOUR WHITE UNLESS OTHERWISE SPECIFIED BY CLIENT.
  - PATCH, REPAIR, PAINT AND FINISH TO NEW ALL DAMAGED DOORS, FRAMES AND WALLS IN ROOM.
  - SLOPED RAMP DOWN FROM B-003 TO B-002: NEW FINISH FLOORING TO FEATHER INTO, AND BE FLUSH WITH, TOP OF EXISTING B-003. SEE IMAGE 6/A-102
  - NEW FINISHED FLOOR TO BE FLUSH WITH FINISH FLOOR IN ROOM B-001.
  - CONTRACTOR TO PATCH, REPAIR, AND PAINT INTERIOR FACE OF WALL DAMAGED BY WATER LEAK, AND PORTION OF WALL DAMAGED DUE TO DEMOLITION. PROVIDE 400mm SQUARE OPENING IN PAINTED PLYWOOD CENTERED OVER AREA OF PIPE PENETRATION FOR ONGOING OBSERVATION. SEE IMAGE 3/A-102 FOR ADDITIONAL NOTES.

REMOVE TOPCOAT (ESTIMATED 10-13mm) OVER EXISTING CONCRETE FLOORING TO REMOVE WATER DAMAGED, DETERIORATED, AND LOOSE FLOORING WHERE APPLICABLE.



1 | IMAGE 1  
A-102

REMOVE PAINT ON DAMAGED MASONRY WALLS TO 610 mm ABOVE FINISHED FLOOR, TYP. PATCH AND REPAIR DAMAGED DOOR FRAMES, TYP.



2 | IMAGE 2  
A-102

CONTRACTOR TO CUT 400mm SQUARE OPENING IN PAINTED PLYWOOD TO REMOVE CONDUIT PIPES FROM EXTERIOR FOUNDATION WALL, FILL HOLES WITH NON-SHRINK CEMENTITIOUS GROUT "SIKAGROUT 212", AND SEAL EXTERIOR SIDE ENDS TO MATCH EXTERIOR FOUNDATION PROTECTION. INTERIOR PLYWOOD PARTITION HOLE TO REMAIN OPEN FOR MONITORING FOR POTENTIAL FUTURE LEAKS. PATCH TAPE AND SEAL POLY VAPOUR BARRIER.



3 | IMAGE 3  
A-102

REMOVE ALL FLOOR CABINETS, EQUIPMENT AND OTHER MISCELLANEOUS FOR APPLICATION OF NEW FLOOR AND WALLS. REINSTALL AFTER FLOOR INSTALLATION.



4 | IMAGE 4  
A-102



5 | IMAGE 5  
A-102

REMOVE DAMAGED DRYWALL UP TO 610mm WHERE NOTICEABLY DAMAGED BY WATER OR OTHER CONTAMINANTS. PATCH, REPAIR, PAINT AND MATCH TO GOOD CONDITION EXISTING.



NEW FINISH FLOORING TO FEATHER INTO AND BE FLUSH WITH TOP OF EXISTING B-003 FINISH FLOOR.

6 | IMAGE 6  
A-102

GENERAL CONSTRUCTION NOTES:

- 1. PROTECTION:**
  - ADEQUATELY PROTECT BUILDING OCCUPANTS AND OTHER SURFACES FROM PREPARATION AND PAINTING PROCEDURES OR OTHER DAMAGE. MAKE GOOD ANY DAMAGE AS A RESULT OF INADEQUATE OR UNSUITABLE PROTECTION.
  - ERECT ADEQUATE CONTAINMENT BARRIERS AROUND EXISTING EQUIPMENT AND PIPING DURING PREPARATION OF SURFACES AND PAINTING OPERATIONS.
  - FURNISH SUFFICIENT DROP CLOTHS, SHIELDS AND PROTECTIVE EQUIPMENT TO PREVENT SPRAY OR DRIPPINGS FROM FOULING SURFACES NOT BEING FINISHED AND, IN PARTICULAR, SURFACES WITHIN STORAGE AND PREPARATION AREA.
  - PLACE COTTON WASTE, CLOTHS, EMPTY CONTAINERS AND MATERIAL WHICH MAY CONSTITUTE A FIRE HAZARD IN CLOSED METAL CONTAINERS AND REMOVE DAILY FROM SITE.
  - REMOVE ALL ELECTRICAL PLATES, SURFACE HARDWARE, FITTINGS AND FASTENINGS, PRIOR TO FINISHING OPERATIONS. THESE ITEMS ARE TO BE CAREFULLY STORED, CLEANED AND REPLACED ON COMPLETION OF WORK IN EACH AREA. DO NOT USE SOLVENT TO CLEAN HARDWARE THAT MAY REMOVE THE PERMANENT LAQUER FINISH.
- 2. PREPARATION OF SURFACES:**
  - PREPARE SURFACES TO BE PAINTED OR FINISHED IN ACCORDANCE WITH MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL, OR THE COATING MANUFACTURER'S PRINTED INSTRUCTIONS, WHICHEVER IS THE MORE STRINGENT.
  - CONCRETE SURFACES WHICH HAVE BEEN PREVIOUSLY CURED WITH CONVENTIONAL CURING COMPOUNDS OR ARE CONTAMINATED WITH FORM OILS MUST BE COMPLETELY CLEANED BY ABRASIVE BLASTING. ACID ETCHING IS NOT ACCEPTABLE, AS IT WILL NOT NORMALLY REMOVE THESE CONTAMINATES. AFTER SURFACE IS PROPERLY PREPARED, SMALL HOLES OR VOIDS SHALL BE FILLED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS.
  - PREVIOUSLY PAINTED SURFACES SCHEDULED FOR PAINTING SHALL BE CLEANED USING APPROPRIATE PREVIOUSLY SPECIFIED METHOD. CHECK EXISTING PAINT COATINGS FOR COMPATIBILITY WITH PAINT WITH WHICH THEY ARE TO BE OVER COATED. IF COATINGS ARE NOT COMPATIBLE, SUBMIT RECOMMENDATIONS FOR REVIEW BY ENGINEER.
  - PATCH AND REPAIR EXISTING GYPSUM BOARD OR PLYWOOD WALLS AND CEILINGS, AS REQUIRED, PRIOR TO REPAINTING.
- 3. APPLICATION:**
  - ENSURE THAT ALL TESTING OF EQUIPMENT AND PROCESS AND BUILDING SYSTEMS HAS BEEN SUCCESSFULLY COMPLETED, BEFORE COMMENCING PAINTING OF RELATED SURFACES.
  - APPLY PAINT AND OTHER FINISHES IN ACCORDANCE WITH GOOD TRADE PRACTICE, AND MANUFACTURERS' PRINTED INSTRUCTIONS. COVER SURFACES SATISFACTORILY WITH AN EVEN COLOUR TONE. APPLY PRIMER
  - APPLY EACH COAT AT THE PROPER CONSISTENCY.
  - SAND AND DUST BETWEEN COATS TO REMOVE DEFECTS VISIBLE FROM DISTANCE UP TO 1.5 M. REFER TO PAINT MANUFACTURER'S TECHNICAL SHEETS FOR COATING AND RE-COATING RECOMMENDATIONS.
  - DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY.
  - ALLOW EACH COAT OF FINISH TO DRY BEFORE A FOLLOWING COAT IS APPLIED, UNLESS DIRECTED OTHERWISE BY MANUFACTURER.
  - BACKPRIME INTERIOR WOODWORK WHICH IS TO RECEIVE A PAINT FINISH WITH ENAMEL UNDERCOAT PAINT, IMMEDIATELY UPON ARRIVAL AT THE JOB SITE.
  - PRIME TOP AND BOTTOM EDGES OF WOOD AND METAL DOORS IN ACCORDANCE WITH APPLICABLE PAINT FORMULA.
  - USE THE FOLLOWING REFERENCE FOR CONTACT SURFACES:
    - STEEL SURFACES IN CONTACT WITH ALUMINUM SHALL RECEIVE ONE (1) PRIME COAT AND ONE (1) ALUMINUM FINISH COAT.
    - ALUMINUM SURFACES IN CONTACT WITH STEEL SURFACES: PRIME COAT WITH FAST-DRY MODIFIED ALKYD PRIMER.
    - WOOD SURFACES IN CONTACT WITH OTHER SURFACES: PRIME COAT (SEALER).
    - ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRIME COATED WITH FAST-DRY MODIFIED ALKYD PRIMER, AND PAINTED WITH TWO (2) COATS OF INTERIOR/EXTERIOR ACRYLIC ENAMEL.
    - ANY SURFACES NOT IN DIRECT BONDED CONTACT BUT INACCESSIBLE AFTER ASSEMBLY SHALL RECEIVE EITHER THE FULL SPECIFIED PAINT SYSTEM OR THREE (3) COATS OF THE SPECIFIED PRIMER BEFORE ASSEMBLY.
  - PAINTING OF PREVIOUSLY PAINTED SURFACES TOUCH-UPS:
    - CLEAN AREAS TO BE PAINTED USING APPROPRIATE PREVIOUSLY SPECIFIED METHOD.
    - MINIMUM COATING REQUIREMENTS FOR SPOT-PAINTING SHALL BE AS FOLLOWS:
      - NO RUSTING, BUT PRIME COAT EXPOSED - SAND LIGHTLY AND FEATHER EDGES. APPLY 1 TO 2 FINISH COATS TO REGAIN SPECIFIED MINIMUM DRY FILM THICKNESS.
      - NO RUSTING, BUT PRIME COAT DAMAGED - CLEAN AREA TO BASE MATERIAL, SAND LIGHTLY AND FEATHER EDGES. APPLY PRIME COAT AND TWO (2) FINISH COATS. SAND AND FEATHER EDGES BETWEEN COATS.
      - RUST AREAS - CLEAN TO ORIGINAL STANDARD OF SURFACE PREPARATION. APPLY COATS AS PER 2 ABOVE. ONLY APPLY ADDITIONAL SPOT FINISHED COAT, IF REQUIRED, TO MAINTAIN APPEARANCE.
    - CHECK EXISTING PAINT COATINGS FOR COMPATIBILITY WITH PAINT WITH WHICH THEY ARE TO BE OVER-COATED. IF NOT COMPATIBLE, SUBMIT RECOMMENDATIONS FOR REVIEW BY ARCHITECT.
- 4. CLEANING:**
  - AS THE WORK PROCEEDS AND UPON COMPLETION, REMOVE ALL PAINT WHERE SPILLED, SPLASHED OR SPATTERED.
  - DURING THE PROGRESS OF THE WORK, KEEP THE PREMISES FREE FROM ANY UNNECESSARY ACCUMULATION OF TOOLS, EQUIPMENT, SURPLUS MATERIALS AND DEBRIS.
  - AT THE CONCLUSION OF THE WORK LEAVE THE PREMISES NEAT AND CLEAN.
- 5. INSPECTION:**
  - CONTRACTOR SHALL USE WET THICKNESS INDICATORS FOR APPLICATION GUIDE.
  - PROVIDE NECESSARY FACILITIES AND CO-OPERATE WITH INSPECTOR.
  - PAINTED SURFACES WILL BE CHECKED FOR ACTUAL DRY FILM THICKNESS IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL, PAINT APPLICATION SPECIFICATION NO. 2 (SSPC-PA2) FIVE (5) SPOT METHOD.
  - REPAINT WHEREVER DRY FILM THICKNESS FOUND INADEQUATE.
  - WHEN DEFECTS ARE REVEALED, THE ENGINEER MAY REQUEST ADDITIONAL INSPECTION TO ASCERTAIN FULL DEGREES OF DEFECT, AT NO COST TO THE OWNER.
  - CORRECT DEFECTS AND IRREGULARITIES AS ADVISED BY THE ENGINEER AND SUBJECT TO FURTHER INSPECTION UNDER SIMILAR CONDITIONS AS EARLIER INSPECTIONS, AT NO COST TO THE OWNER.
- 6. STANDARD OF ACCEPTANCE:**
  - TWO-COMPONENT, HIGH EARLY STRENGTH STRUCTURAL REPAIR MATERIAL, ACCEPTABLE PRODUCT: MG-KRETE, MANUFACTURED BY IMCO TECHNOLOGIES INC.



E 19/06/25 ISSUED FOR TENDER JK IH

D	17/12/08	ISSUED FOR TENDER	JK	IH
C	17/08/22	ISSUED FOR 100%	JK	IH
B	17/06/07	ISSUED FOR 95% REVIEW	JK	IH
A	16/10/28	ISSUED FOR 60% REVIEW	JK	IH
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

<b>A</b>	Detail number	A Numéro de détail
<b>B</b>	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
<b>AECOM</b>	

Parks Canada	Parcs Canada
Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord

**Canada**

Project title/Titre du projet

JASPER NATIONAL PARK  
JASPER TRAIN STATION

Drawing title/Titre du dessin

IMAGES & SPECIFICATIONS

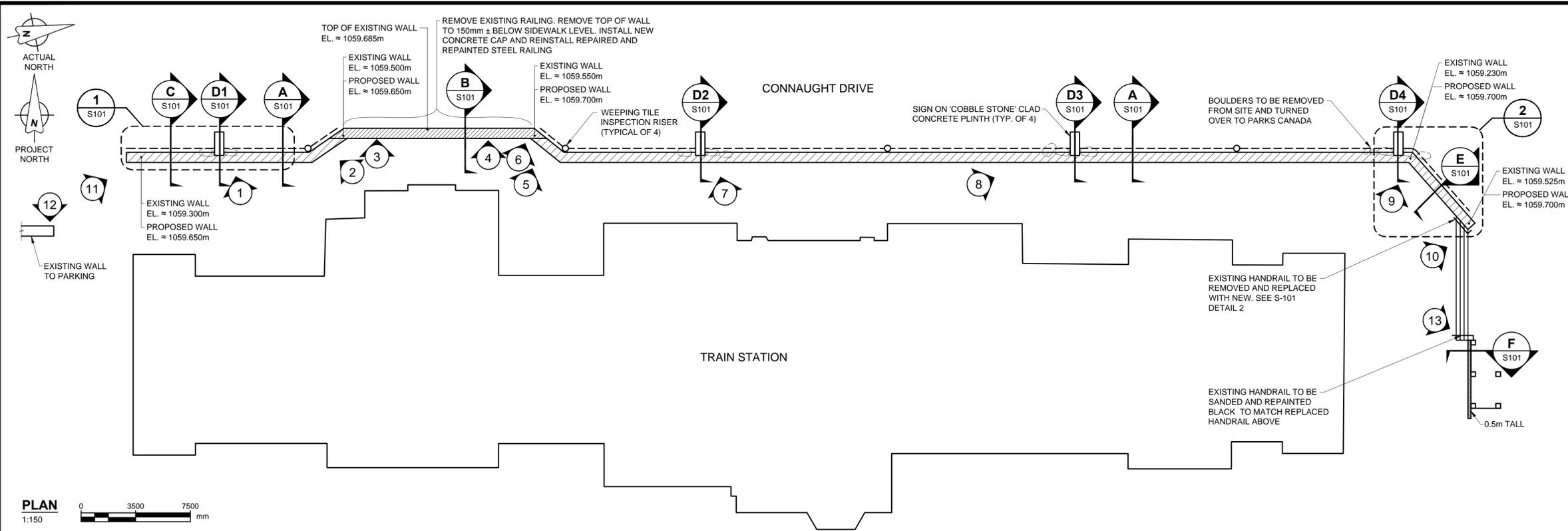
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	JK	19/06/03

Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
IH	IH	NOTED

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Project No./N° du projet	Asset No./N° du bien	Sheet No./ N° de la feuille
709		2 OF 2

Drawing Set No./N° de série du dessin	Drawing No./N° de dessin
	A-102



- ### GENERAL NOTES
1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
  2. ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
  3. THE DESIGN AND CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2010 AND REFERENCED STANDARDS THEREIN. ALL REFERENCED STANDARDS SHALL BE THE LATEST EDITION.
  4. REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEEVES AND OTHER BUILDING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
  5. CONTRACTOR TO CONFIRM WITH EQUIPMENT SUPPLIERS DIMENSIONS AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES AND OBTAIN APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.
  6. NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HOURS IN ADVANCE OF CONCRETE POURS FOR SITE REVIEW.
  7. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
  8. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE PROVINCE OF ALBERTA, TO PERFORM AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION.
  9. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS.

- ### DESIGN LOADS
1. DEAD LOADS: SELF WEIGHT
  2. LIVE LOADS: 4.8kPa
  3. IMPORTANCE CATEGORY: NORMAL
  4. SNOW LOADS:
    - $S_s = 3.3 \text{ kPa}$
    - $S_f = 0.1 \text{ kPa}$
    - $I_s = 1.0 \text{ (ULS)}$
    - $I_s = 0.9 \text{ (SLS)}$
    - MODIFY FOR EXPOSURE AND DRIFT AS PER NBC 2010 STRUCTURAL COMMENTARIES
  5. WIND LOADS:
    - $q(1/50) = 0.46 \text{ kPa}$
    - $q(1/10) = 0.37 \text{ kPa}$
    - $I_w = 1.0 \text{ (ULS)}$
    - $I_w = 0.75 \text{ (SLS)}$
    - MODIFY FOR EXPOSURE AS PER NBC 2010 STRUCTURAL COMMENTARIES
  6. SEISMIC LOADS:
    - SITE CLASS D
    - $Sa(0.2) = 0.24$
    - $Sa(0.5) = 0.14$
    - $Sa(1.0) = 0.07$
    - $Sa(2.0) = 0.04$
    - PGA = 0.12
    - $I_e = 1.0 \text{ (ULS)}$
    - $R_d = 1.0 \text{ (SFRS - UNREINFORCED MASONRY/OTHER CONCRETE)}$
    - $R_o = 1.0$
  7. CONCRETE SELF-WEIGHT BASED ON  $\gamma = 24 \text{ kN/m}^3$

- ### EXCAVATION & BACKFILL
1. DO NOT PLACE BACKFILL AGAINST WALL UNTIL CONCRETE IS COMPLETE AND HAS ACHIEVED 70% OF THE DESIGN COMPRESSIVE STRENGTH
- ### CONCRETE REINFORCEMENT
1. REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO CSA-G30.18 GRADE 400.
  2. WELDABLE REINFORCING BARS SHALL CONFORM TO CSA-G30.18 GRADE 400W. WELDING OF REINFORCING STEEL SHALL CONFORM TO CSA-W186.
  3. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
  4. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
  5. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW UNLESS NOTED OTHERWISE:
 

CONCRETE CAST IN FORMS	50mm
WALLS	
  6. REINFORCING STEEL BAR LAPS SHALL BE CLASS B TENSION SPLICES PER CSA-A23.1 UNLESS NOTED OTHERWISE.

- ### CONCRETE ACCESSORIES
1. EXPANSION ANCHORS: OF DIAMETER SHOWN AND STANDARD EMBEDMENT U.N.O. SHEAR AND TENSION CAPACITIES ARE BASED ON HILTI KWIK BOLT 3 (KB3) EXPANSION ANCHORS. SUBMIT ANCHOR LOAD RESISTANCE DATA FOR ALTERNATE PRODUCTS FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WEEKS PRIOR TO INTENDED USE.
  2. EPOXY ANCHORS: OF DIAMETER SHOWN AND STANDARD EMBEDMENT U.N.O. SHEAR AND TENSION CAPACITIES ARE BASED ON HILTI HY200 + HIT-Z SUPER HARDWARE. SUBMIT ANCHOR LOAD RESISTANCE DATA FOR ALTERNATE PRODUCTS FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WEEKS PRIOR TO INTENDED USE.
  3. BONDING AGENTS: THREE COMPONENT, WATER-BASED, EPOXY RESIN/CEMENT BONDING AGENT.
  4. GROUT: NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM STRENGTH AT THREE DAYS OF 20 MPa AND STRENGTH AT 28 DAYS OF 50 MPa.
- ### PRECAST CONCRETE
1. ALL DESIGN, MANUFACTURE AND INSTALLATION TO CONFORM TO NATIONAL BUILDING CODE 2010 AND C.S.A. 3-A23.4, LATEST EDITION.
  2. ALL PRECAST CONCRETE DESIGN AND SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW CARRYING THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER.
  3. ALL CONNECTION TO BE DESIGNED IN SUCH A MANNER AS NOT TO CAUSE LOCAL OVERSTRESSING OF THE SURROUNDING CONCRETE OR STRUCTURAL STEEL AND TO BE WHOLLY SUFFICIENT BY THEMSELVES, WITHOUT ANY FURTHER REINFORCING, UNLESS SO STATED BY THE MANUFACTURER.
  4. PROVIDE GROUT IN ALL JOINTS BETWEEN UNITS

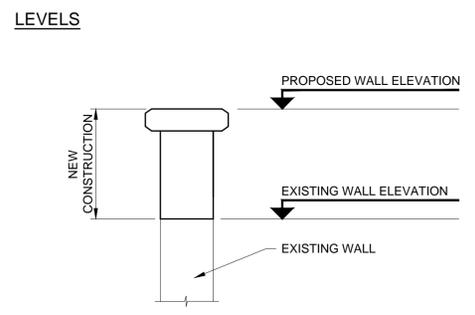
- ### CONCRETE
1. PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
  2. ALL CONCRETE SHALL BE NORMAL-DENSITY WITH NORMAL-DENSITY FINE AND COARSE AGGREGATE AND BE PROPORTIONED TO MEET THE FOLLOWING REQUIREMENTS:

LOCATION	CSA EXPOSURE CLASS	CEMENT TYPE	MINIMUM COMPRESSIVE STRENGTH (MPa)	MAX W/C RATIO	MAX. AGGREGATE (mm)	AIR CONTENT (%)
WALL STEM AND 'CAPPING STONE'	C-2	GU	32 @ 28 DAYS	0.45	20	5-8

- ### MASONRY
1. ALL MORTAR SHALL CONFORM TO CSA A179 AND SHALL BE TYPE 'S' UNLESS NOTED OTHERWISE.
  2. NATURAL STONE VENEER TO BE PROVIDED BY CONTRACTOR.

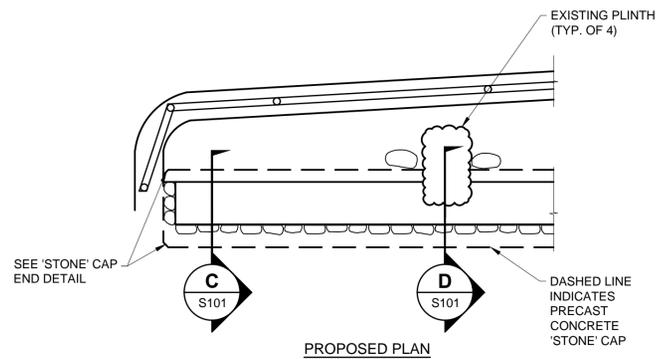
- ### STRUCTURAL STEEL FRAMING
1. FABRICATE AND ERECT STRUCTURAL STEEL TO CSA-S16.
  2. PROVIDE STRUCTURAL STEEL TO CSA-G40.21 WITH THE FOLLOWING GRADES:
 

CHANNELS AND ANGLES:	300 W
STRUCTURAL BARS AND PLATES:	300 W
MISCELLANEOUS STEEL:	300 W
ANCHOR RODS:	300 W
  3. WELD TO CSA W59 BY FABRICATORS QUALIFIED TO CSA-W47.1.
  4. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.



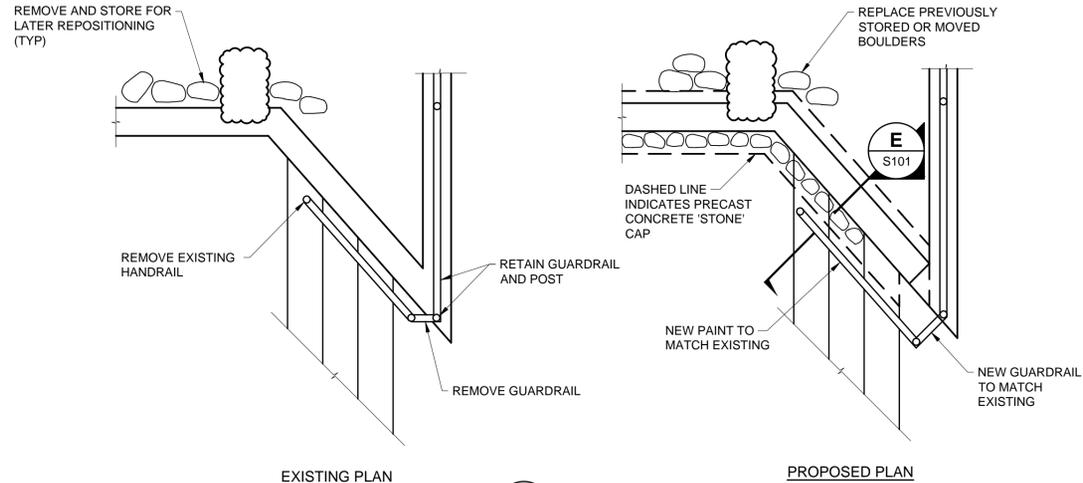
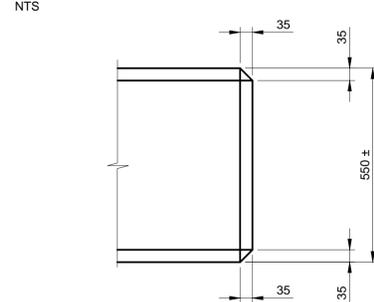
- ### LEGEND
- SECTION A**
- RAISE RETAINING WALL (500mm±) AND APPLY STONE FACING
  - CONCRETE CAP REQUIRED FOR STONE; REMOVE BENCHES
  - ADD WEEP HOLES IN RETAINING WALL @ 2000mm O.C.
- SECTION B**
- STONE FACING APPLIED TO RETAINING WALL
  - RAILING TO BE REMOVED. EXISTING CONCRETE CAP TO BE REMOVED AND REPLACED. REPAIRED RAILING TO BE REINSTALLED
- # PHOTOGRAPH NUMBER. SEE DRAWING S102 FOR PHOTOS

	19/06/25	RE-ISSUED FOR TENDER	DB	NC
	19/06/05	RE-ISSUED FOR TENDER	DB	NC
	18/04/27	RE-ISSUED FOR TENDER	RP	NC
	17/12/08	ISSUED FOR TENDER	RP	NC
	17/10/08	ISSUED FOR 100% REVIEW	RP	NC
	17/08/22	ISSUED FOR 100% REVIEW	EL	NC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A	Detail number		A Numéro de détail	
B	Sheet number		B Numéro de la feuille	
Linear dimensions In millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur		
<b>AECOM</b>				
<b>Asset Management Western and Northern Region</b>		<b>Gestion des biens Région de l'Ouest et du Nord</b>		
<b>Canada</b>				
Project title/Titre du projet				
<b>JASPER NATIONAL PARK JASPER HERITAGE TRAIN STATION</b>				
Drawing title/Titre du dessin				
<b>RETAINING WALL PLAN</b>				
Surveyed by/Arpenté par AECOM		Drawn by/Dessiné par EL		Date 17/06/2017
Designed by/Concept par NC		Reviewed by/Revisé par NC		Scale/Echelle 1:150
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Project No./N° du projet 709		Asset No./N° du bien -		Sheet No./ N° de la feuille 11 OF 13
Drawing Set No./N° de série du dessin			Drawing No./N° de dessin <b>S-100</b>	



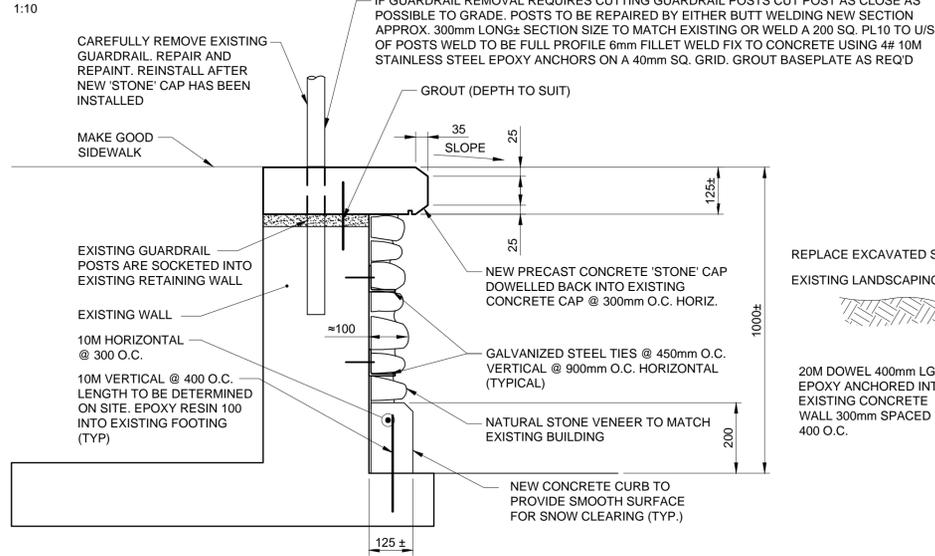
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S100 1:25

**PRECAST CONCRETE 'STONE' CAP DETAIL (TYP)**

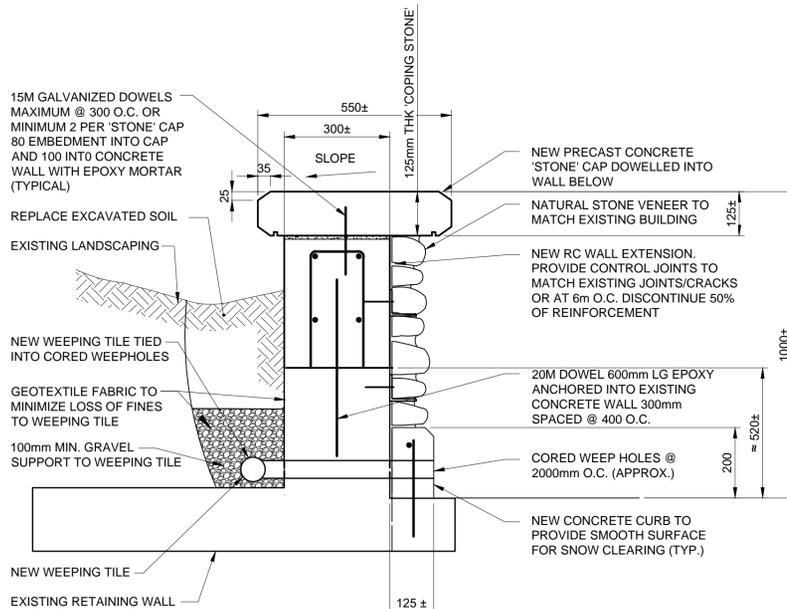


**2 PLAN DETAIL**  
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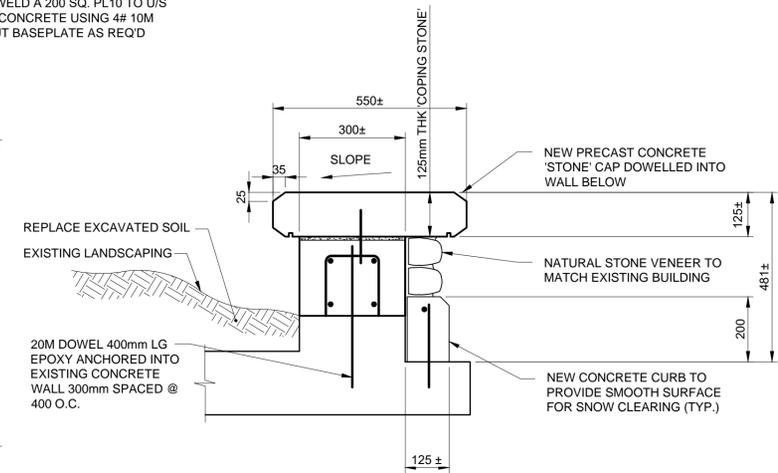
**'STONE' CAP END DETAIL (PLAN)**



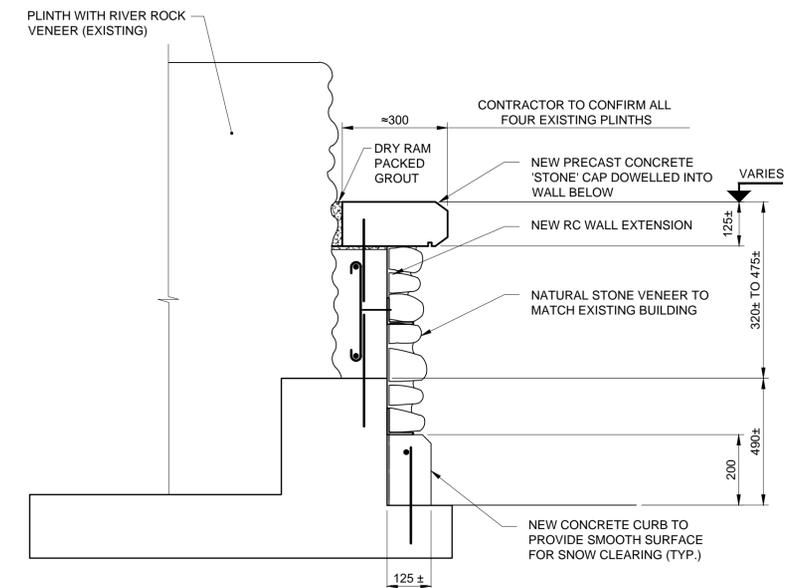
**B SECTION**  
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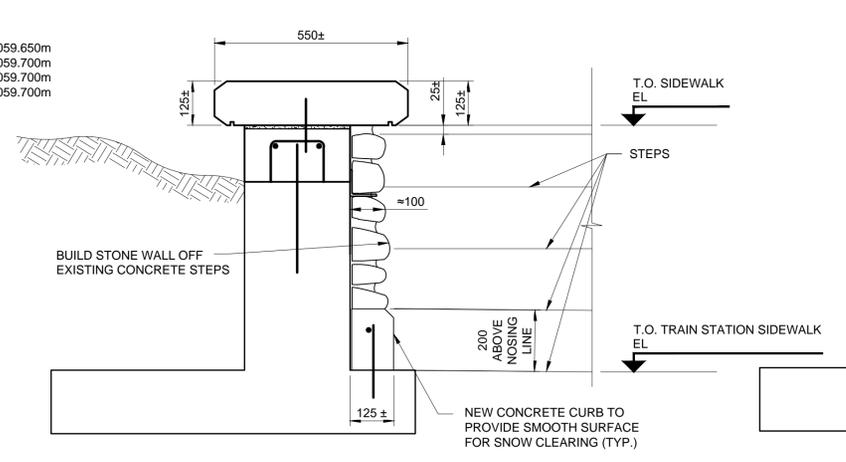
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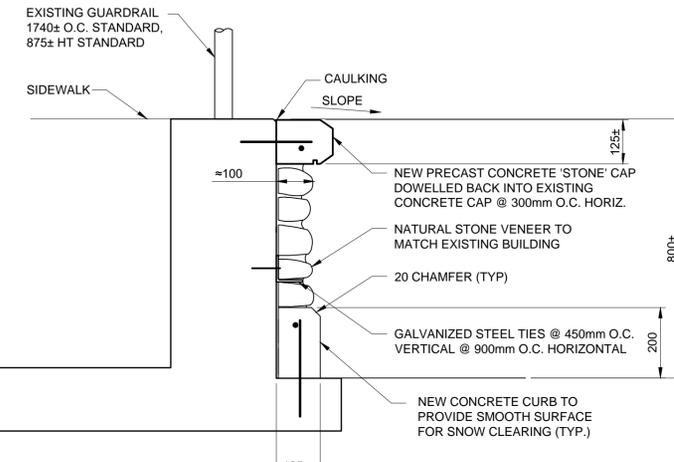
**C SECTION**  
S100 1:10



**D SECTION**  
S100 1:10



**E SECTION**  
S100 1:10



**F SECTION**  
S100 1:10

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
H	19/06/25	RE-ISSUED FOR TENDER	DB	NC
G	19/06/05	RE-ISSUED FOR TENDER	DB	NC
F	18/04/27	RE-ISSUED FOR TENDER	RP	NC
E	17/12/08	ISSUED FOR TENDER	RP	NC
D	17/10/03	RE-ISSUED FOR 100% REVIEW	RP	NC
C	17/08/22	ISSUED FOR 100% REVIEW	EL	NC

Revision / Revision

(A)	Detail number	A Numéro de détail
(B)	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-consultant: **AECOM**

Eng. Stamp / Sceau de l'ingénieur: [Stamp]

**Canada**

Parks Canada / Parcs Canada

Asset Management / Gestion des biens Western and Northern Region / Région de l'Ouest et du Nord

PERMIT TO PRACTICE  
AECOM CANADA LTD.

Signature: [Signature]  
Date: June 25, 2019  
PERMIT NUMBER: P 10450  
The Association of Professional Engineers and Geoscientists of Alberta

Project title/Titre du projet: **JASPER NATIONAL PARK JASPER HERITAGE TRAIN STATION**

Drawing title/Titre du dessin: **RETAINING WALL DETAILS**

Surveyed by/Arpenté par: AECOM	Drawn by/Dessiné par: EL	Date: 17/06/07
Designed by/Conçut par: NC	Reviewed by/Revisé par: NC	Scale/Echelle: NOTED
Client Acceptance/Acceptation du client:		Approved by/Approuvé par:
Project No./N° du projet: 709	Asset No./N° du bien:	Sheet No./N° de la feuille: 12 OF 13
Drawing Set No./N° de série du dessin:		Drawing No./N° de dessin: <b>S-101</b>

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PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



PHOTO 8



PHOTO 9

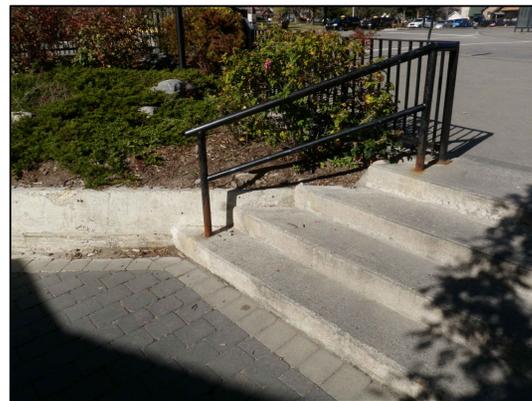


PHOTO 10



PHOTO 11



PHOTO 12



PHOTO 13

NOTE: FOR LOCATION OF PHOTOGRAPHS SEE PLAN ON DRAWING S100.

G	19/06/25	RE-ISSUED FOR TENDER	DB	NC
F	19/06/05	RE-ISSUED FOR TENDER	DB	NC
E	18/04/27	RE-ISSUED FOR TENDER	RP	NC
D	17/12/08	ISSUED FOR TENDER	RP	NC
C	17/10/03	ISSUED FOR 100% REVIEW	RP	NC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions In millimetres	Dimensions linéaires en millimètres
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Consultant's Name  
Nom de l'expert-conseil

**AECOM**

Eng. Stamp  
Sceau de l'ingénieur



**Parks Canada** / **Parcs Canada**  
 Asset Management / Gestion des biens  
 Western and Northern Region / Région de l'Ouest et du Nord

**Canada**

PERMIT TO PRACTICE  
 AECOM CANADA LTD.  
 Signature: *[Signature]*  
 Date: June 25, 2019  
 PERMIT NUMBER: P 10450  
 The Association of Professional  
 Engineers and Geoscientists of Alberta

Project title/Titre du projet

**JASPER NATIONAL PARK**  
**JASPER HERITAGE**  
**TRAIN STATION**

Drawing title/Titre du dessin

**RETAINING WALL**  
**EXISTING PHOTOGRAPHS**

Surveyed by/Arpenté par: AECOM  
 Drawn by/Dessiné par: EL  
 Date: 17/06/07

Designed by/Concept par: NC  
 Reviewed by/Revisé par: NC  
 Scale/Echelle: -

Client Acceptance/Acceptation du client: \_\_\_\_\_  
 Approved by/Approuvé par: \_\_\_\_\_

Project No./N° du projet: 709  
 Asset No./N° du bien: \_\_\_\_\_  
 Sheet No./N° de la feuille: 13 OF 13

Drawing Set No./N° de série du dessin: \_\_\_\_\_  
 Drawing No./N° de dessin: **S-102**