



Parks Canada
Agency
Western and
Northern Region

L'Agence Parcs
Canada
Ouest et Nord
du Canada

WATERTON NATIONAL PARK
TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943

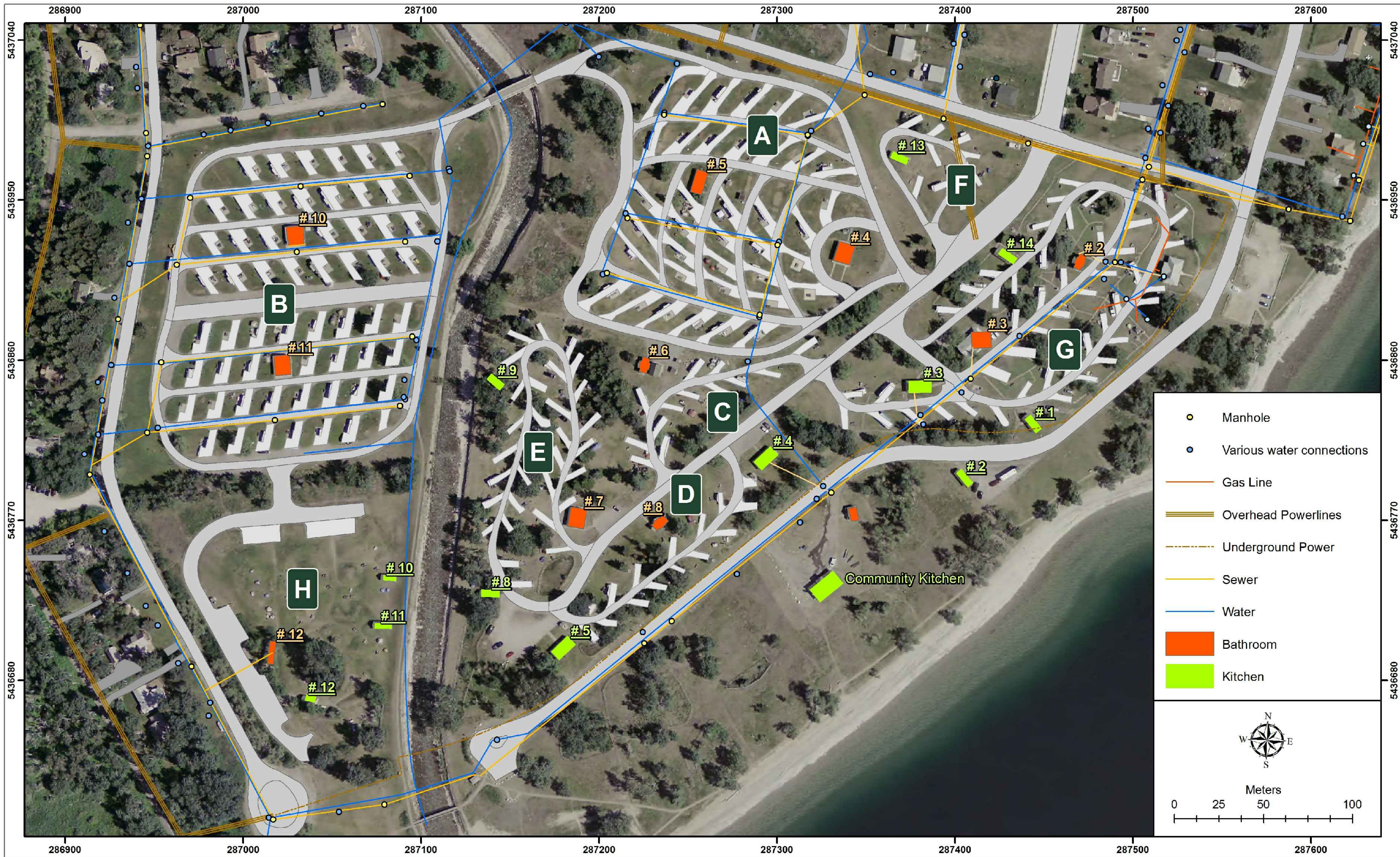
ISSUED FOR TENDER

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par KB	Date/Date 2015-11-06
Designed by/Concept par BV	Reviewed by/Revisé par KG	Scale/Echelle AS SHOWN
PWSCG Project Manager/Administrateur de Projets TPSCG -		
Client Acceptance/Acceptation du client		Approved by/Autorisé par
Peri. Responsible Officer/Agent Responsable		PWSCG Project Manager/Administrateur de Projets TPSCG
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille
Drawing Reference No./No. de référence du dessin C-00002		2 of 47

Last saved by: GOSSELINM(2017-06-25) Last Plotted: 2017-06-25
Filename: P:\0432200\WORK\910-CAD\20-SHEETS\0001\IC60432200-SHT-30-001-C-0003.DWG

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COMPANY, DEPARTMENT OR PERSON(S) OF ITS
INTENTION TO CARRY OUT ITS OPERATIONS.



KEY PLAN



LEGEND

	EXISTING	PROPOSED
WATER MAIN		
SANITARY MAIN		
SANITARY MANHOLE		
VALVE		
FIRE HYDRANT		
WATER STAND PIPE		
SANITARY RECEPTACLE		
FITTINGS		
TREE / BUSH		
LIGHT SYMBOL		
SIGN POST		

GENERAL NOTES

1. EXISTING CAMPGROUND PLAN CREATED BY
PCA AND PROVIDED FOR INFORMATION ONLY.

A	17-06-23	ISSUED FOR TENDER	DC BR
No.	Date/Date	Description/Description	Drawn by Dessiné par

	Revision / Revision	
A	detail number numéro de détail	A
B	source drawing no. de dessin no.	B
C	detail on drawing no. détail sur dessin no.	C

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scellé de l'ingénieur

AECOM

Canada

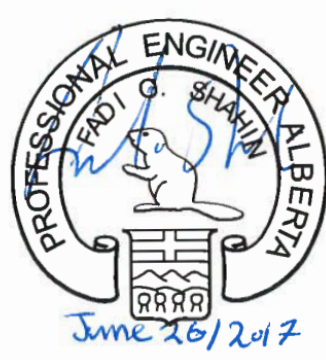
Client/client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**EXISTING
CAMPGROUND PLAN**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2017-06-20
Designed by/Concepté par BR	Reviewed by/Revisé par AS	Scale/Echelle AS NOTED
PWSSC Project Manager/Administrateur de Projet TPSCC		
Client Acceptance/acceptation du client		
Approved by/Approuvé par		
Project No./No. du projet 60432200	Asset No./No. de l'actif -	Sheet No./ No. de la feuille 3 of 47
Drawing Reference No./No. de référence du dessin C-0003		



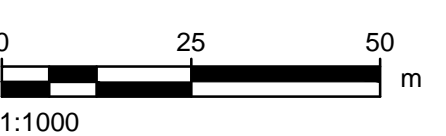
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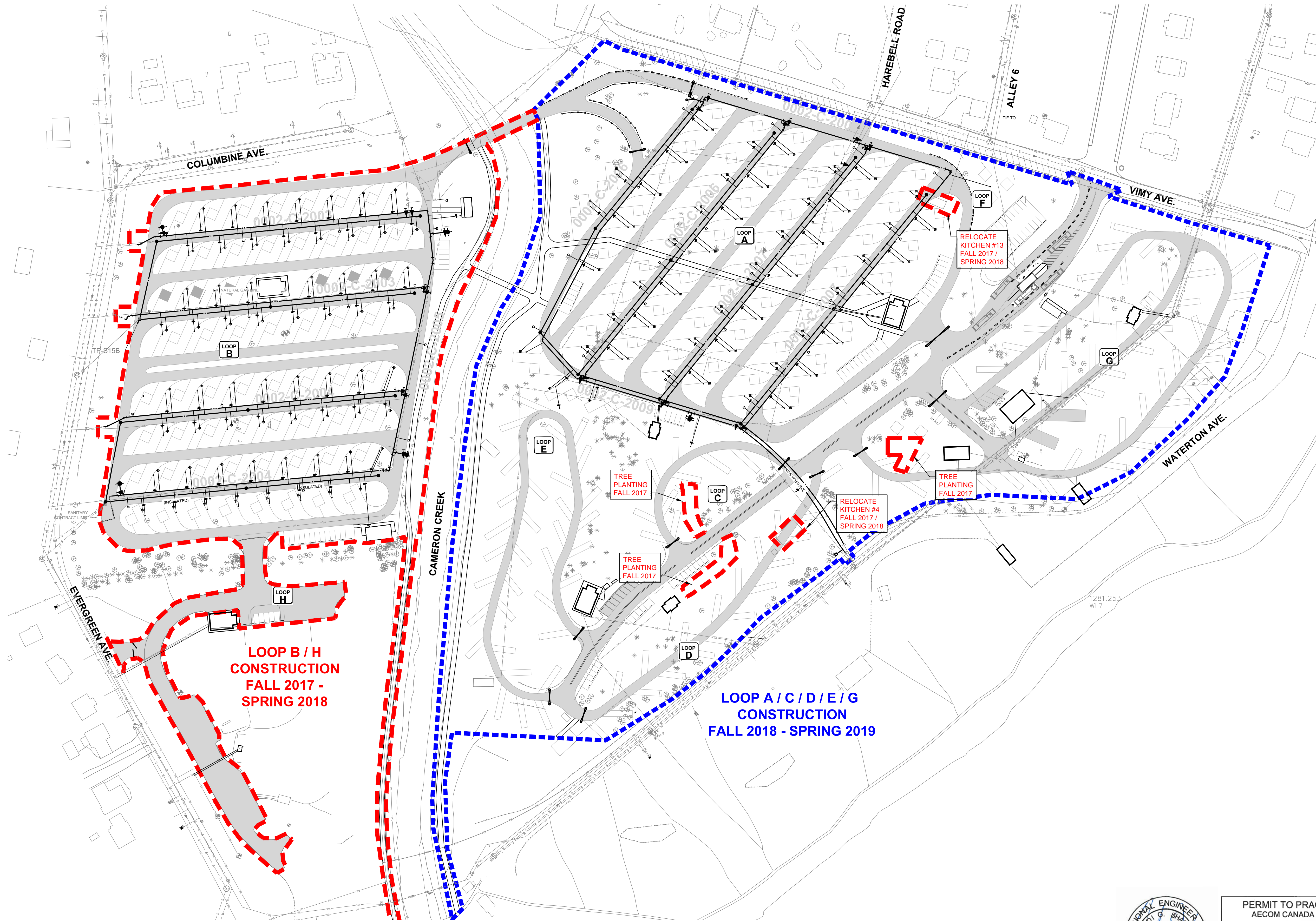
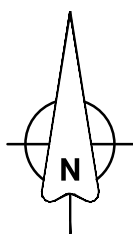
Signature: *Shahin*

Date: *June 26, 2017*

PERMIT NUMBER: P10450

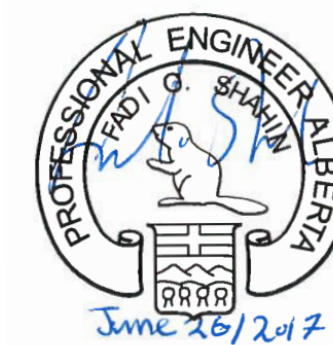
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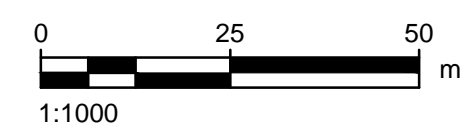


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Date: *June 26, 2017*
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KEY PLAN

LEGEND
EXISTING
WATER MAIN
SANITARY MAIN
SANITARY MANHOLE
VALVE
FIRE HYDRANT
WATER STAND PIPE
SANITARY RECEPTACLE
FITTINGS
TREE / BUSH
LIGHT SYMBOL
SIGN POST
PROPOSED

GENERAL NOTES

C	17-06-23	ISSUED FOR TENDER	DG	BR
B	17-03-27	ISSUED FOR 95% REVIEW	MG	BR
A	15-11-27	ISSUED FOR REVIEW	BV	KG

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A		detail number numéro de détail		
B		source drawing no. de dessin no.		
C		detail on drawing no. détail sur dessin no.		

Consultant's Name
Nom de l'expert-conseil

AECOM

Client/client
 Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943**

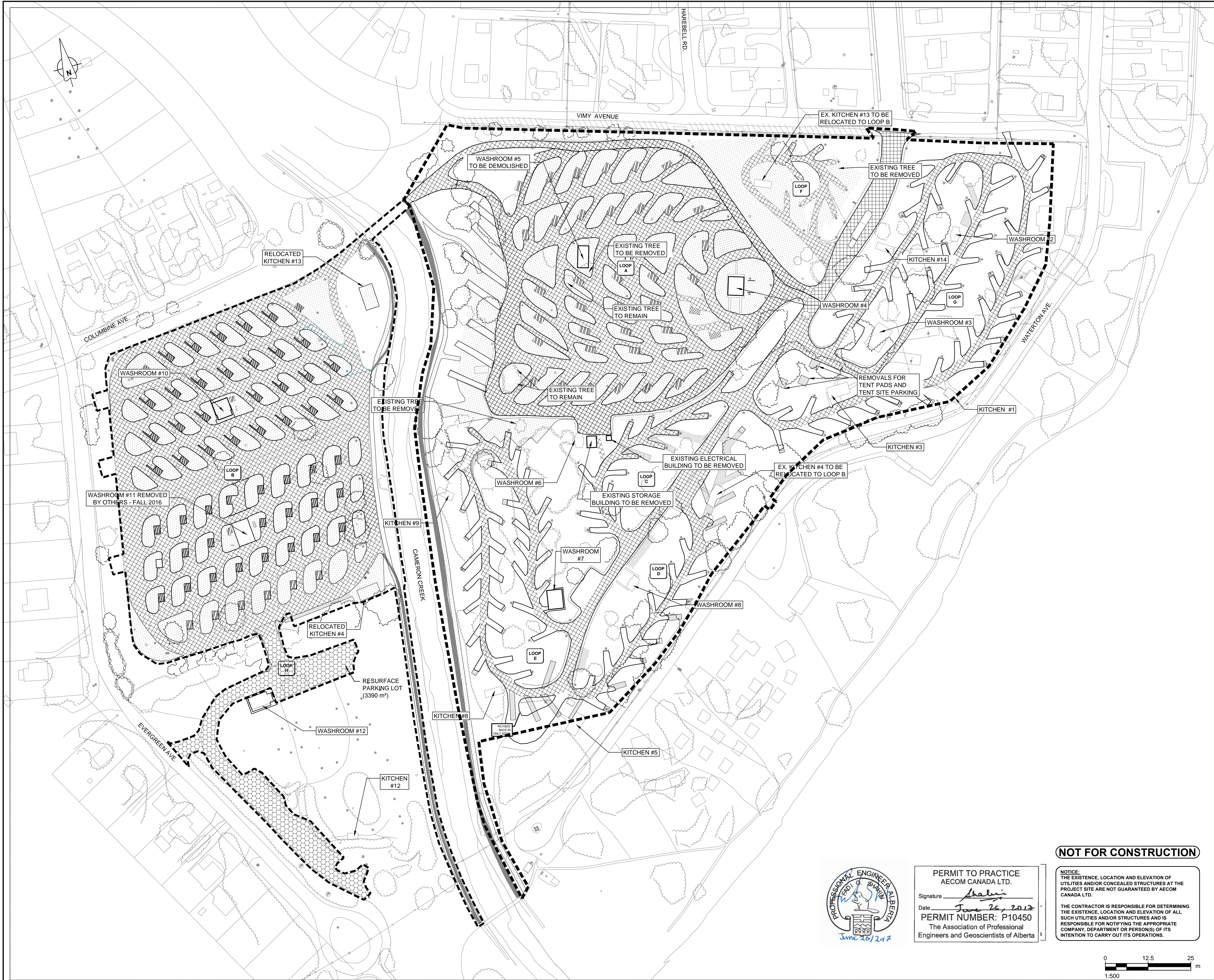
Drawing title/Titre du dessin
CONSTRUCTION PHASING PLAN

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-08-12
Designed by/Conçu par BR	Reviewed by/Revisé par ---	Scale/Echelle AS NOTED

PWSSC Project Manager/Administrateur de Projet TPSOC
Client Acceptance/acceptation du client
Approved by/Approuvé par

Project No./No. du projet 60432200	Asset No./No. de l'actif ---	Sheet No./No. de la feuille 4 of 47
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Drawing Reference No./No. de référence du dessin
C-0004



LEGEND

- TOPSOIL REMOVAL
- GRAVEL REMOVAL
- CONCRETE REMOVAL
- ROAD SURFACE REMOVAL
- FILL POTHOLES AND NEW TOP LIFT ASPHALT
- EXISTING TREE(S) DRIPLINE
- CONSTRUCTION LIMIT
- ASPHALT TRAIL REMOVAL

GENERAL NOTE

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
- REMOVE AND DISPOSE WOODEN BOLLARDS LOCATED BETWEEN LOOPS 'A' AND 'C'
- POTENTIAL TREE CONFLICTS TO BE RESOLVED WITH RESIDENT INSPECTOR AND/OR PARKS REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION.

D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 80% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BV
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision	
A	detail number numéro de détail
B	source drawing no. no. de dessin
C	detail on drawing no. détail sur dessin no.

Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
AECOM	

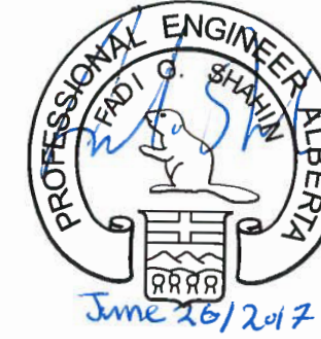
Canada

Client/Client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing Title/Titre du dessin
**REMOVALS PLAN
LOOP A, B, C, D, E, F & G**

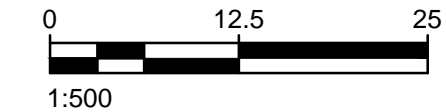
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AECOM	DM	2015-11-06
Designed by/Concept par	Reviewed by/Révisé par	Scale/Echelle
BV	KG	1:500
PWGSC Project Manager/Administrateur de Projets TPSCG		
Client Acceptance/Acceptation du client		
Approved by/Approuvé par		
Park Responsible Officer/Responsable du Parc		
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
60432200	-	-
Drawing Reference No./No. de référence du dessin		5 of 47
C-1001		

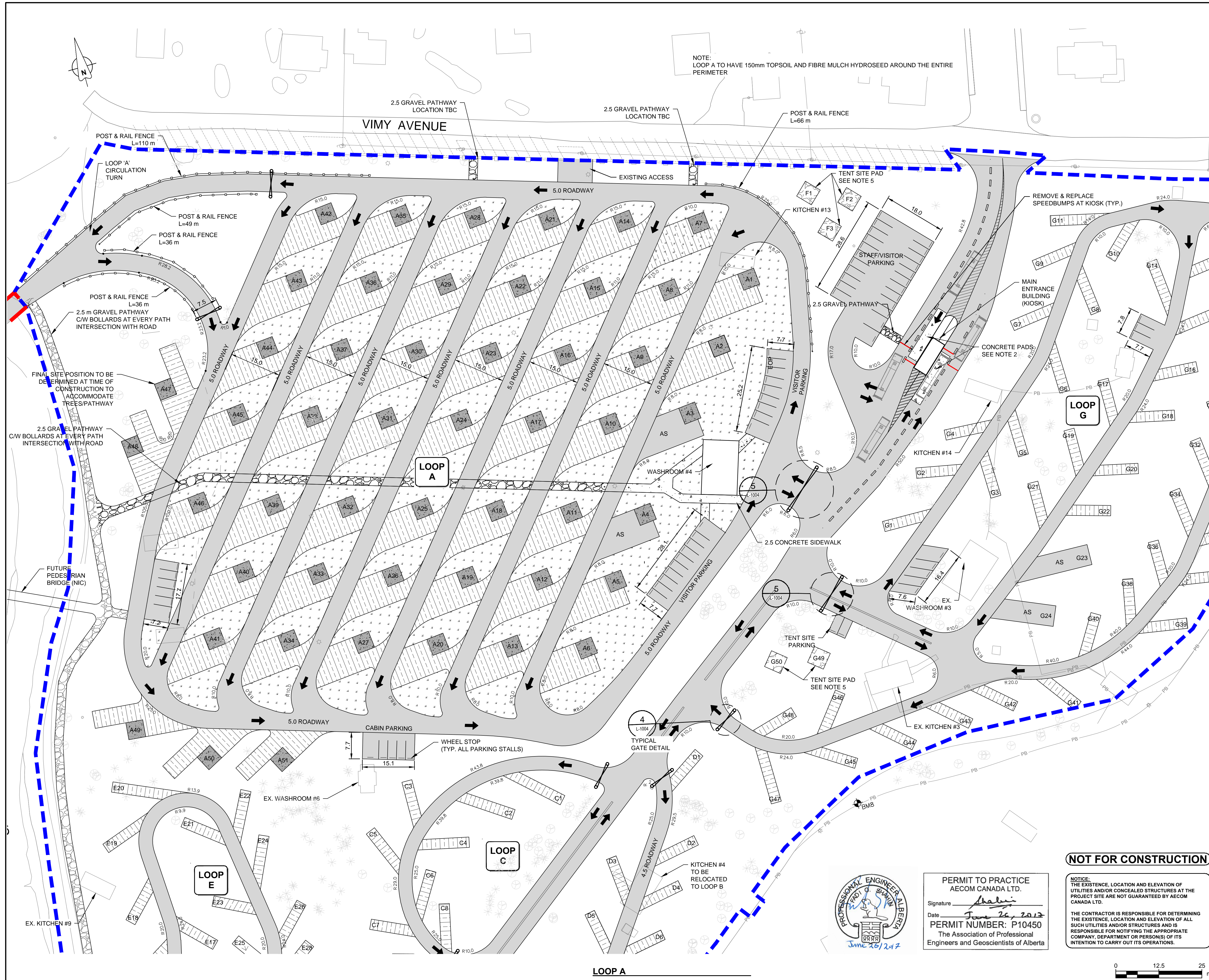


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Signature *Shalini*
Date *June 26, 2017*
PERMIT NUMBER: P10450
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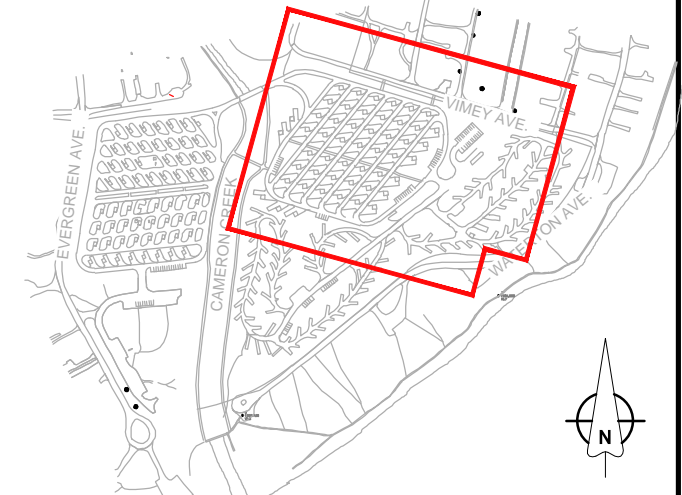
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KEY PLAN



LEGEND

- GRAVEL PATHWAY & PADS
- CONCRETE CAMP SITE PAD
- GRANULAR RV STALL/PARKING
- SOD (SEE LANDSCAPE DRAWING)
- ASPHALT ROAD (NEW SURFACING)
- CONCRETE DIRECTIONAL ROAD MARKING
- BOLLARD
- ACCESSIBLE STALL
- SPEED BUMP
- EX. TREE
- GATE

GENERAL NOTES

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
- REMOVE AND INSTALL RUBBER SPEED BUMPS AT KIOSK
- ALL SITES TO BE SURFACED WITH RECYCLED ASPHALT PAVEMENT
- ALL EXTENDED SITES TO BE SURFACED TO MATCH EXISTING SITE CONDITION
- ALL TENT SITE PADS TO BE 5 m X 5 m, AND ARE TO BE DELINEATED WITH 100 mm X 150 mm (4'X6') TREATED TIMBERS
- ALL EXISTING ROADS THAT REMAIN ARE TO BE MILLED 150 mm AND RECONSTRUCTED USING DETAIL 6 DRAWING C-1008
- POTENTIAL TREE CONFLICTS TO BE RESOLVED WITH RESIDENT INSPECTOR AND/OR PARKS CANADA REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION

D 17-06-23	ISSUED FOR TENDER	DG	BR
C 17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B 16-01-18	ISSUED FOR 90% REVIEW	MR	KG
A 15-11-06	ISSUED FOR 60% REVIEW	MR	BV

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved by Approuvé par
A		detail number numéro de détail	A	A
B		source drawing no. de dessin no.	B	B
C		detail on drawing no. détail sur dessin no.	C	C

Consultant's Name Nom de l'expert-consultant
Eng. Stamp. Sceau de l'ingénieur

AECOM

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Client/Client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943

Drawing Title/Titre du dessin
SITE PLAN LOOP A

Surveyed by/Arpenté par
AECOM
Designed by/Concepté par
BY
Drawn by/Dessiné par
RM
Reviewed by/Revisé par
KG
Date
June 26, 2017
Scale/Echelle
1:500

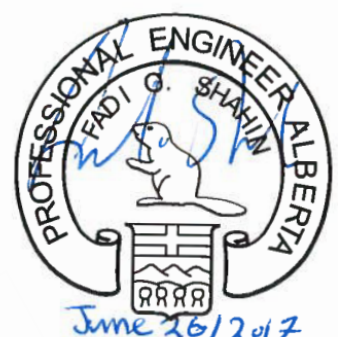
Client Acceptance/Acceptation du client
Approved by/Approuvé par
PWGSC Project Manager/Administrateur de Projets TPSCG
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Project No./No. du projet
60432200
Asset No./No. de bien
-
Sheet No./No. de la feuille
6 of 47

Drawing Reference No./No. de référence du dessin
C-1002

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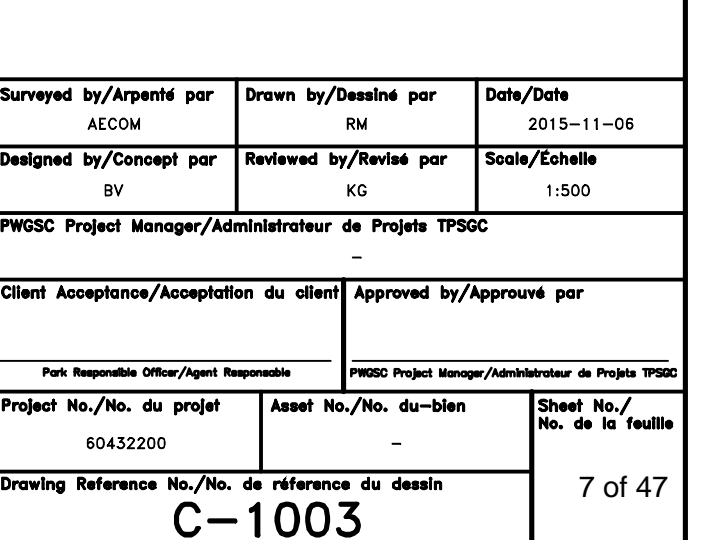


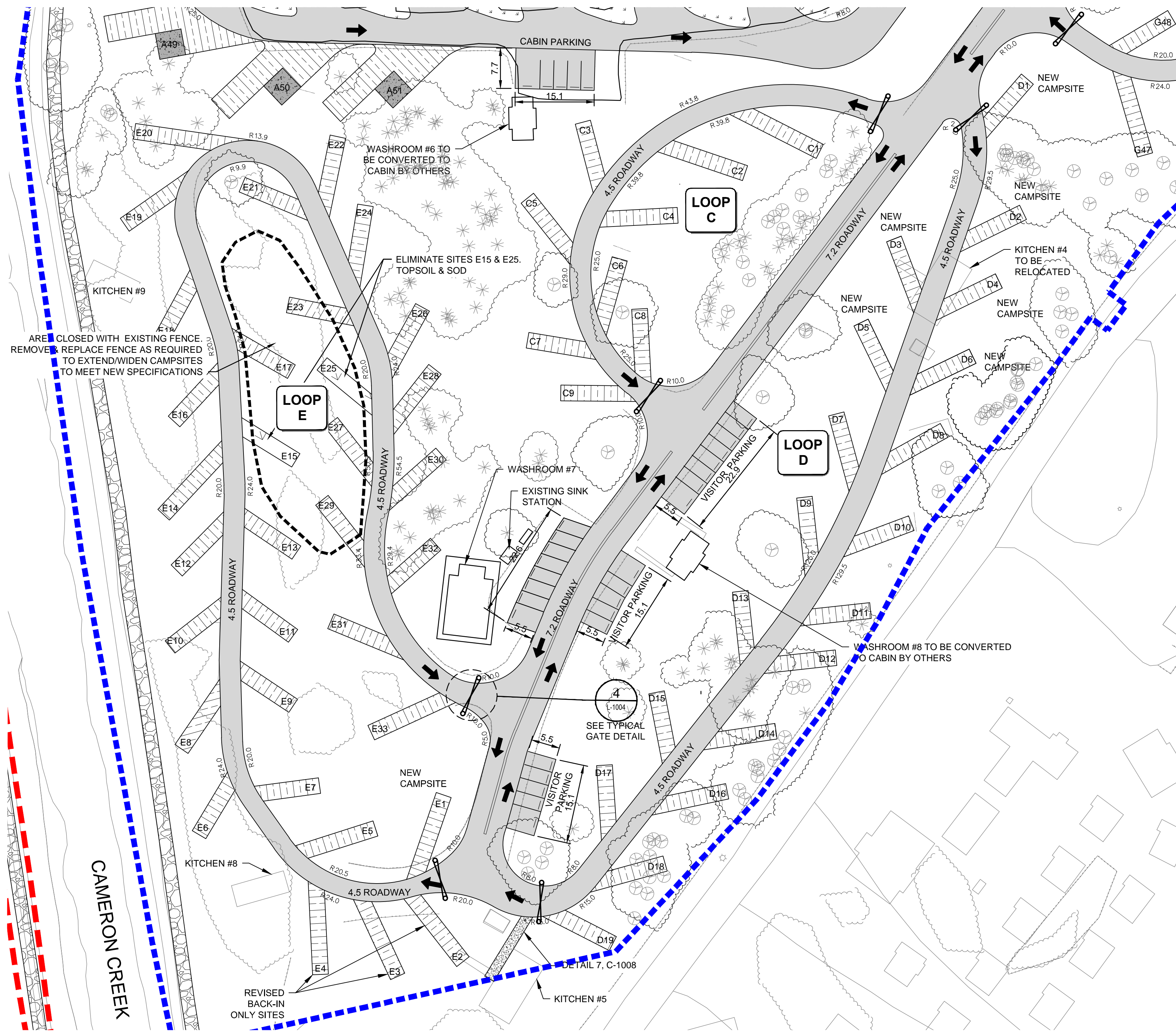
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Date
June 26, 2017
PERMIT NUMBER: P10450
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0 12.5 25
1:500 m



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LOOP C, D & E

KEY PLAN



LEGEND

- GRAVEL PATHWAY & PADS
- CONCRETE CAMPSITE PAD
- GRANULAR RV STALL/ PARKING
- SOD (SEE LANDSCAPE DRAWING)
- ASPHALT ROAD (NEW SURFACING)
- CONCRETE
- DIRECTIONAL ROAD MARKING
- BOLLARD
- AS ACCESSIBLE STALL
- EXISTING TREE / DRIPLINE
- GATE

GENERAL NOTES

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
- REMOVE AND RE-INSTALL EXISTING RUBBER SPEED BUMPS AT KIOSK
- ALL SITES TO BE SURFACED WITH RECYCLED ASPHALT PAVEMENT.
- ALL EXTENDED SITES TO BE SURFACED TO MATCH EXISTING SITE CONDITION.
- ALL TENT SITE PADS TO BE 5 m X 5 m, AND ARE TO BE DELINEATED WITH 100 mm X 150 mm (4"X6") TREATED TIMBERS.
- ALL EXISTING ROADS THAT REMAIN ARE TO BE MILLED 150 mm AND RECONSTRUCTED USING DETAIL 6 DRAWING C-1008.
- POTENTIAL TREE CONFLICTS TO BE RESOLVED WITH RESIDENT INSPECTOR AND/OR PARKS CANADA REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION.

D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 80% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BV

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved by Approuvé
A		detail number numéro de détail	A	
B		source drawing no. de dessin no.	B	
C		detail on drawing no. détail sur dessin no.	C	

Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
AECOM	

Canada

Client/Client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing Title/Titre du dessin
**SITE PLAN
LOOP C, D, & E**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MR	2015-11-06
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
BY	KG	1:500

PWGSC Project Manager/Administrateur de Projets TPSCG	Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
60432200	-	-
Drawing Reference No./No. de référence du dessin		8 of 47

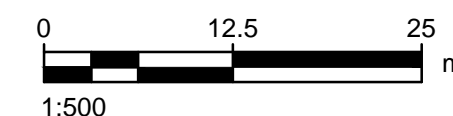
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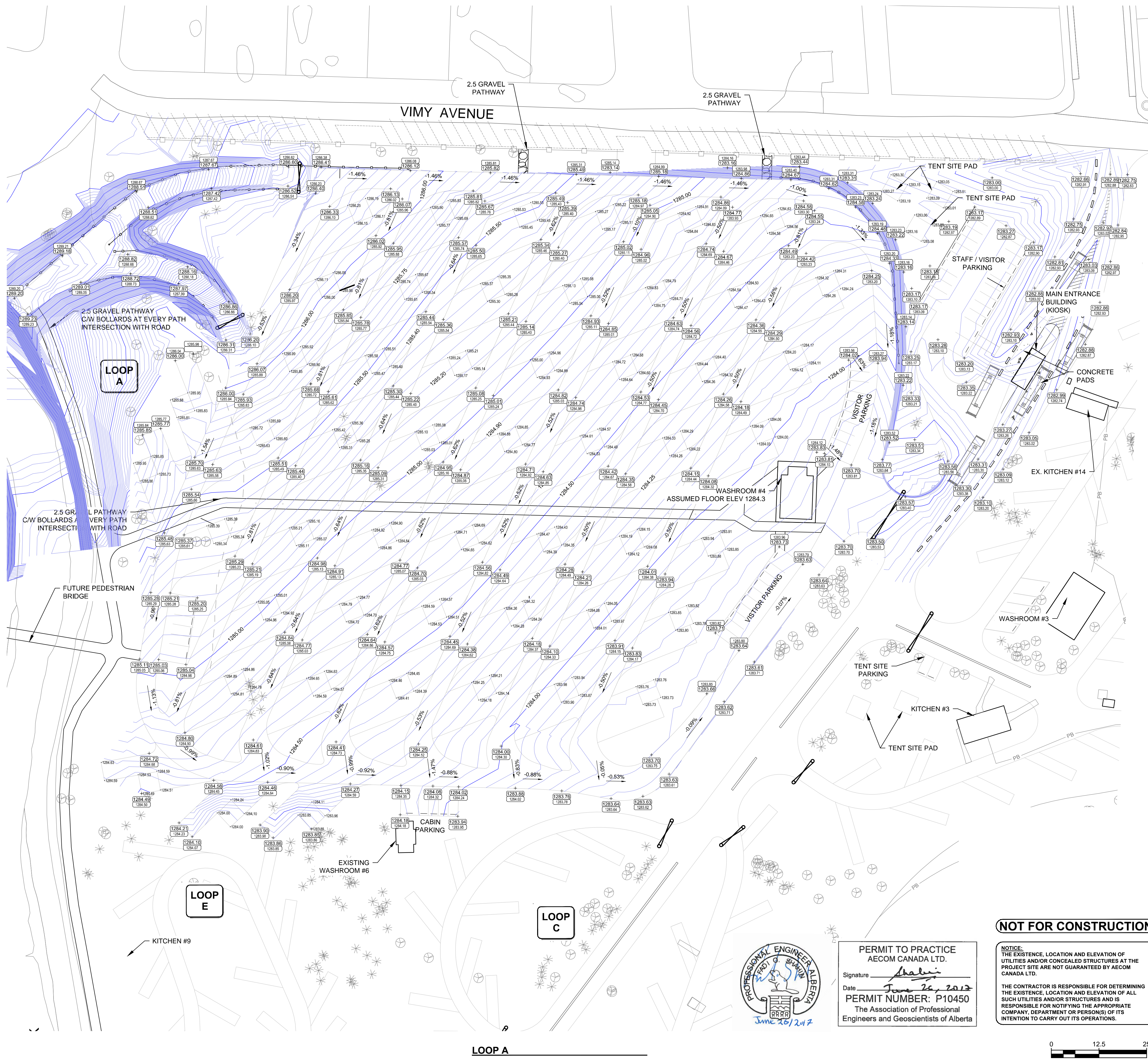
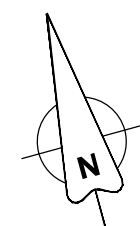
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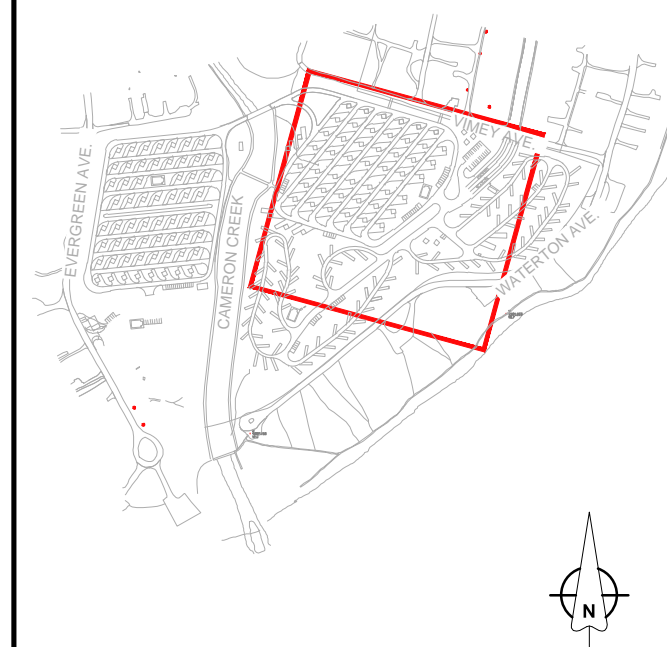


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KEY PLAN



LEGEND

- EXISTING GROUND ELEVATION
- FINISHED DESIGN GRADE
- FINISHED DESIGN CONCRETE PAD
- FINISHED DESIGN COUNTOUR

GENERAL NOTES

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
- RESTORE TO ORIGINAL ELEVATIONS WHERE NO NEW ELEVATIONS GIVEN
- CONTRACTOR SHALL ENSURE ROAD SLOPED ADEQUATELY TO SHED RUNOFF TO VEGETATED AREAS
- GATES SHALL NOT INTERFERE WITH CAMPSITES, PARKING STALLS OR OTHER INFRASTRUCTURE WHEN IN THE OPEN POSITION

D 17-06-23	ISSUED FOR TENDER	DG	BR
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B 16-01-18	ISSUED FOR 80% REVIEW	MR	KG
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Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
AECOM	

Canada

Client/Client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing Title/Titre du dessin
**GRADING PLAN
LOOP A**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MR	2015-11-06
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
BV	KG	1:500

FWGSC Project Manager/Administrateur de Projets FWGSC

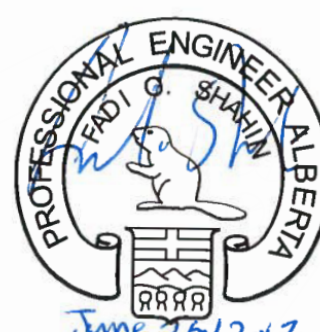
Client Acceptance/Acceptation du client Approved by/Approuvé par

Park Responsible Officer/Agent Responsable		PWSC Project Manager/Administrateur de Projets	
Project No./No. du projet	Asset No./No. du bien	Sheet No./	

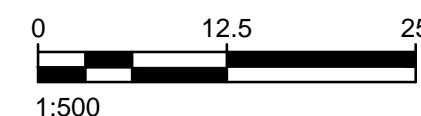
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C-1005

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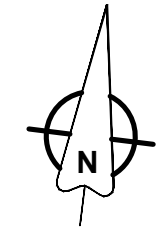
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AECOM CANADA LTD.
Signature *Shahui*
Date *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional
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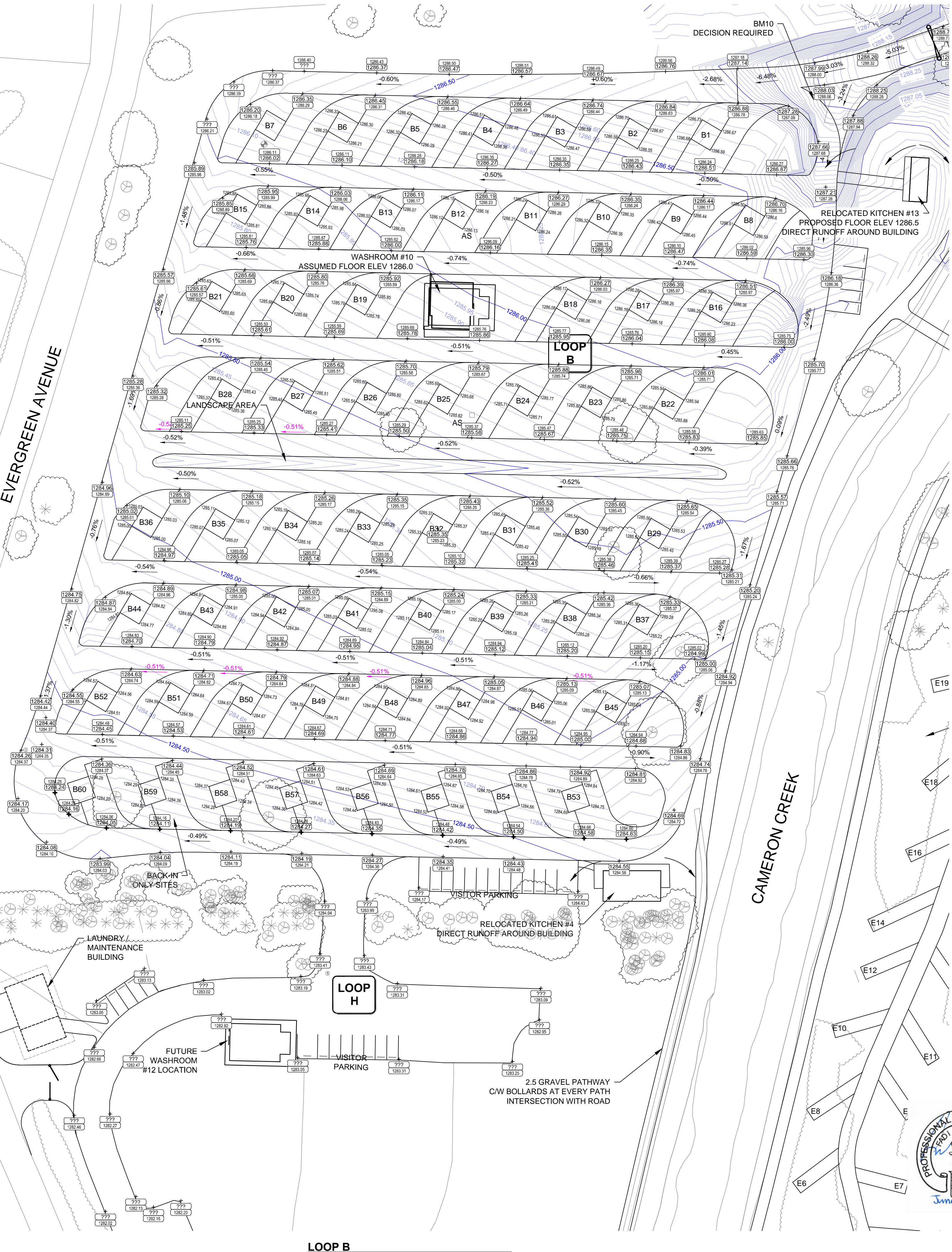


LOOP A

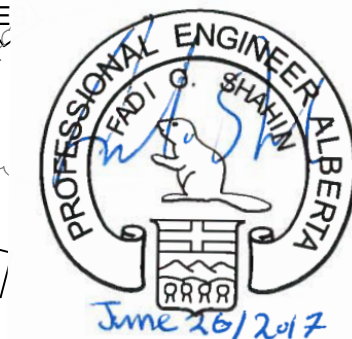


EVERGREEN AVENUE

CAMERON CREEK



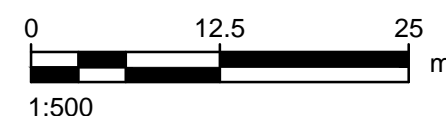
LOOP B



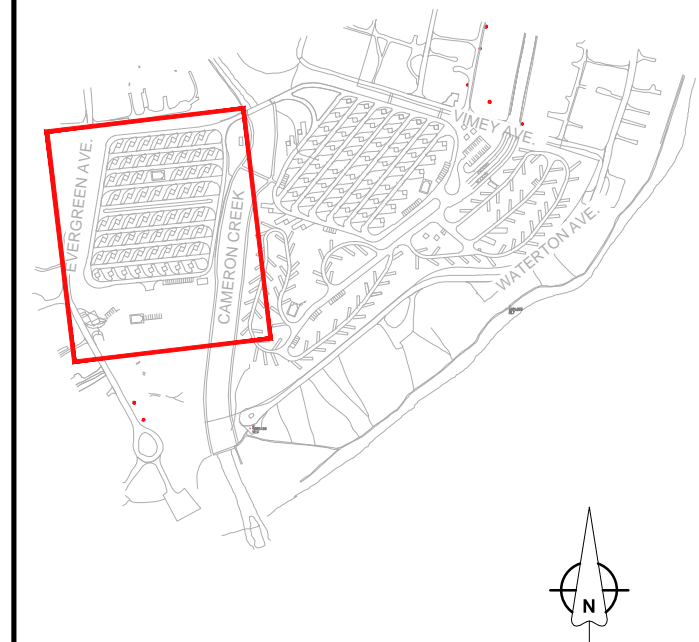
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KEY PLAN



LEGEND

GENERAL NOTES

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE
- RESTORE TO ORIGINAL ELEVATIONS WHERE NO NEW ELEVATIONS GIVEN.
- ALL CONSTRUCTION FOR NEW WINTER ACCESS TO BE DONE TO MATCH EXISTING ELEVATIONS.

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-03	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BV

Revision / Revision	
A	detail number numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
AECOM	

Canada™

Client/Client	Parks Canada Agency L'Agence Parcs Canada
	Western and Northern Region Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**GRADING PLAN
LOOP B**

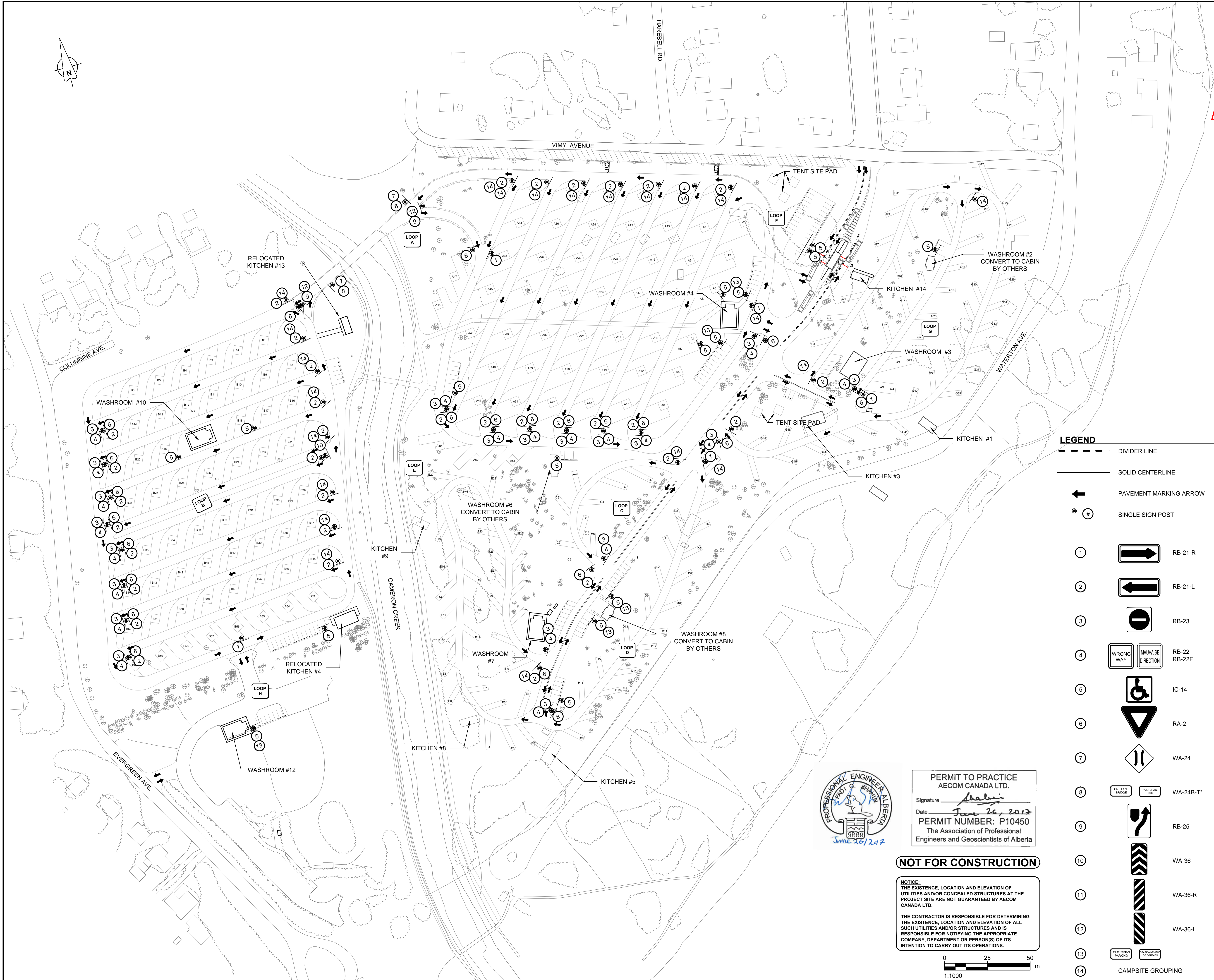
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AECOM	MR	2015-11-06
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
BV	KG	1:500

PWGC Project Manager/Administrateur de Projets TP50C
-

Client Acceptance/Acceptation du client
Approved by/Approuvé par
-

Park Responsible Officer/Agent Responsable		PWGC Project Manager/Administrateur de Projets TP50C	
Project No./No. du projet	Asset No./No. du bien	Sheet No./	
60432200	-	-	

Drawing Reference No./No. de référence du dessin
C-1006
10 of 47



KEY PLAN

GENERAL NOTE

1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ALBERTA TRANSPORTATION HIGHWAY PAVEMENT MARKING GUIDE.

2. ALL SIGNING TO BE AS PER 'TAC MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA, FIFTH EDITION, JANUARY 2014

3. ALL SIGNS TO BE INSTALLED AS PER 'PARKS CANADA IDENTITY PROGRAM EXTERIOR SIGNAGE STANDARDS AND GUIDELINES', VERSION 1, MARCH 2007

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BV

Revision / Révision	
A	detail number / numéro de détail
B	source drawing no. / de dessin no.
C	detail on drawing no. / détail sur dessin no.

Consultant's Name / Nom de l'expert-consult	Eng. Stamp / Sceau de l'ingénieur
AECOM	

Client/Client	
Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet	
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS	
FII PROJECT NO. 943	

Drawing Title/Titre du dessin	
SIGNING & PAVEMENT MARKING PLAN	

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MR	2015-11-06

Designed by/Concepté par	Reviewed by/Révisé par	Scale/Echelle
BY	KG	1:1000

PWGSC Project Manager/Administrateur de Projets TPSCG	
-	

Client Acceptance/Acceptation du client	
Approved by/Approuvé par	

Park Responsible Officer/Agent Responsable	
PWGSC Project Manager/Administrateur de Projets TPSCG	

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
60432200	-	11 of 47

Drawing Reference No./No. de référence du dessin	
C-1007	

LEGEND

---	DIVIDER LINE
—	SOLID CENTERLINE
←	PAVEMENT MARKING ARROW
⊙ #	SINGLE SIGN POST
1	→ RB-21-R
2	← RB-21-L
3	⊙ RB-23
4	WRONG WAY / MAUVAISE DIRECTION RB-22 RB-22F
5	♿ IC-14
6	▽ RA-2
7	⚠ WA-24
8	ONE LANE BRIDGE / RONT A UNE VOIE WA-24B-T*
9	↗ RB-25
10	WA-36
11	WA-36-R
12	WA-36-L
13	CUSTOMARY PARKING
14	STATIONARY SIGN GROUPING

NOT FOR CONSTRUCTION

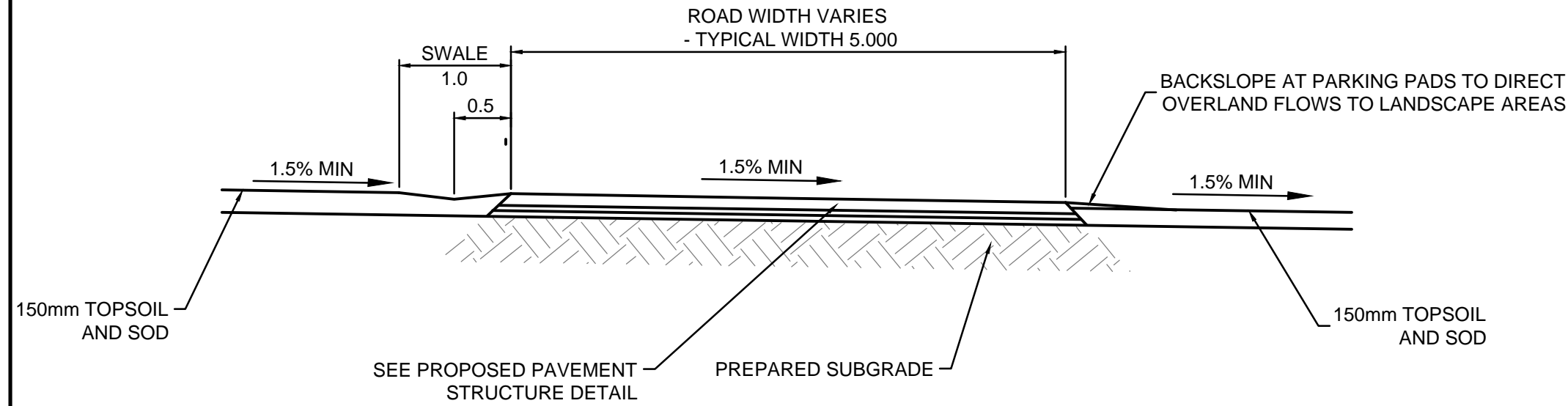
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PROFESSIONAL ENGINEER
ALBERTA
P10450
June 26, 2017

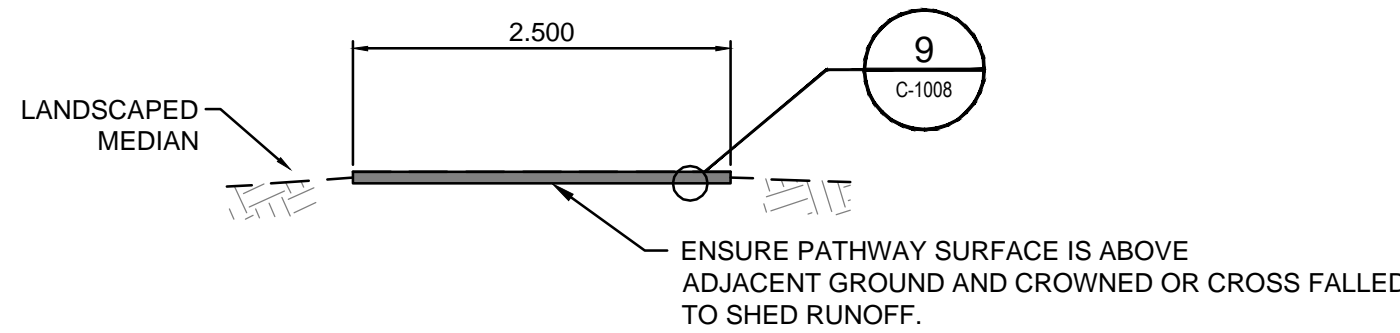
PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: *Shahin*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

0 25 50
1:1000 m



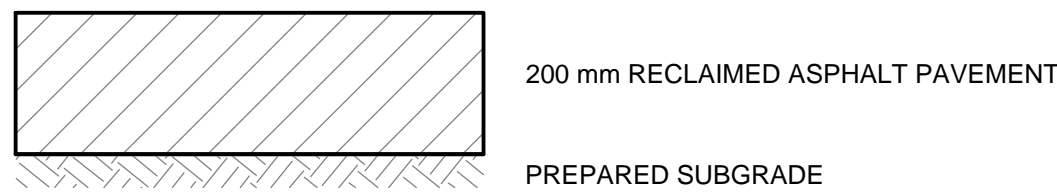
A SECTION - TYPICAL ROAD

1:50



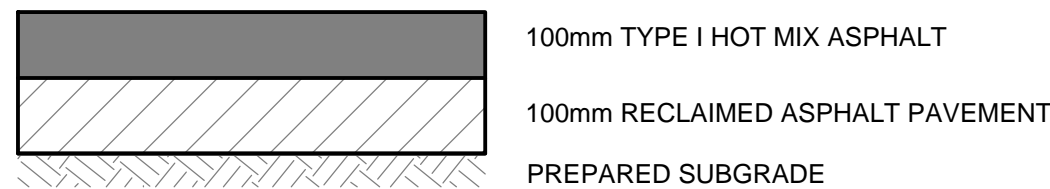
B SECTION - PATHWAY

1:50



3 PROPOSED GRANULAR ROAD STRUCTURE (CAMPSITES)

N.T.S.



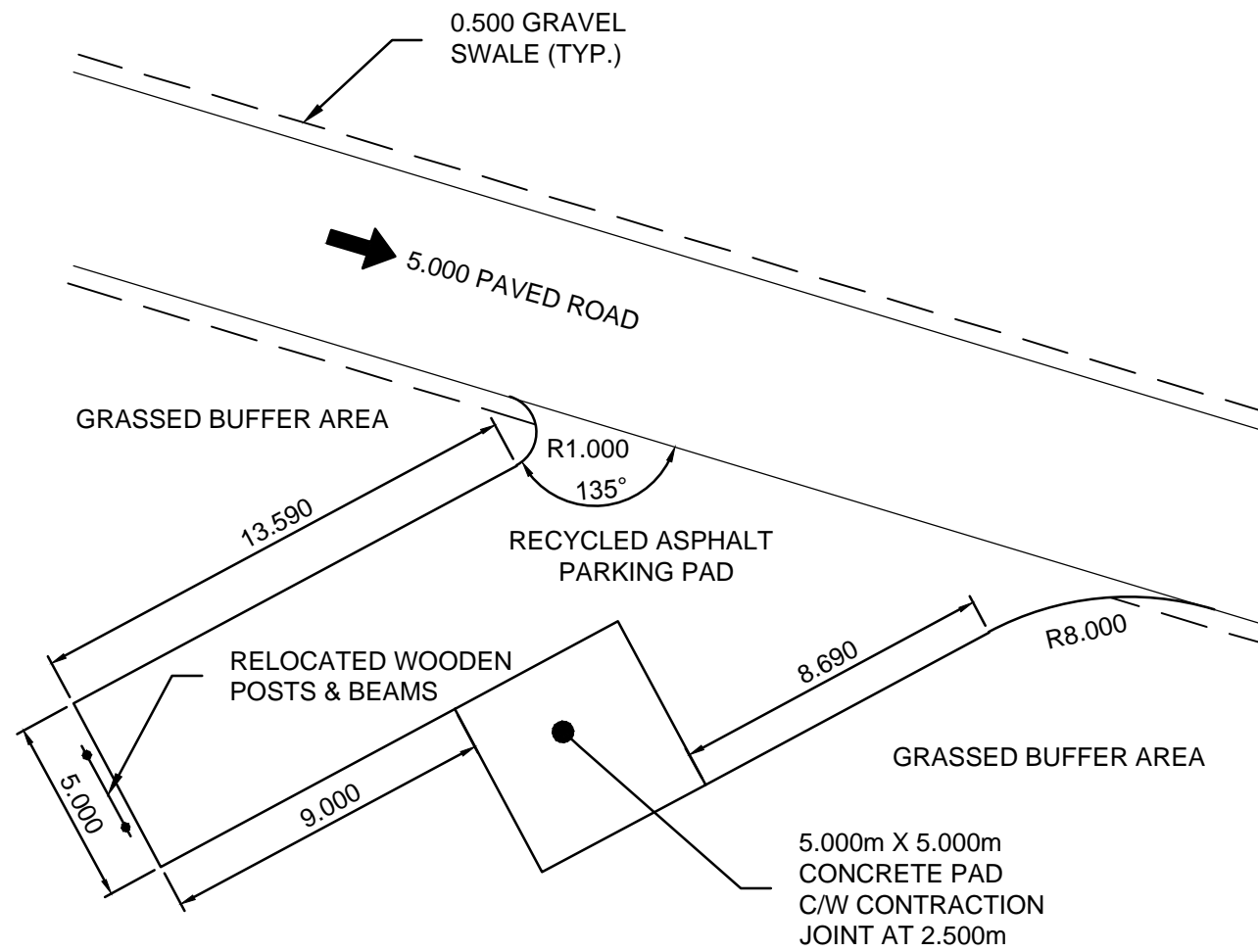
6 PROPOSED PAVED ROAD STRUCTURE

N.T.S.



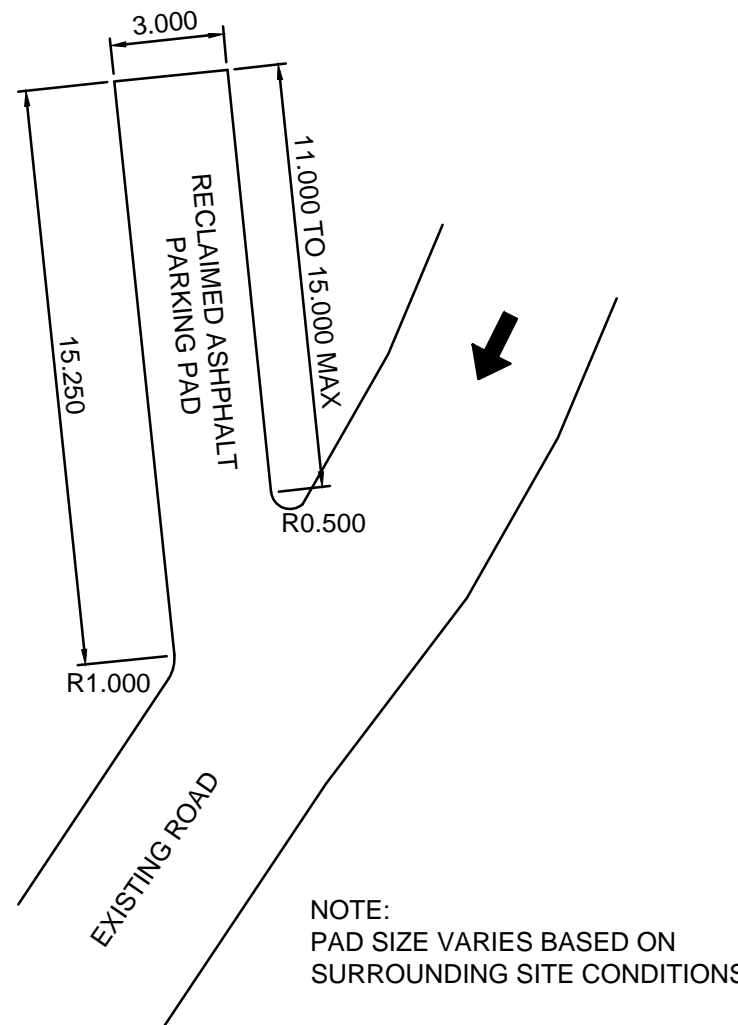
9 PROPOSED GRAVEL PATHWAY & TENT SITE STRUCTURE

N.T.S.



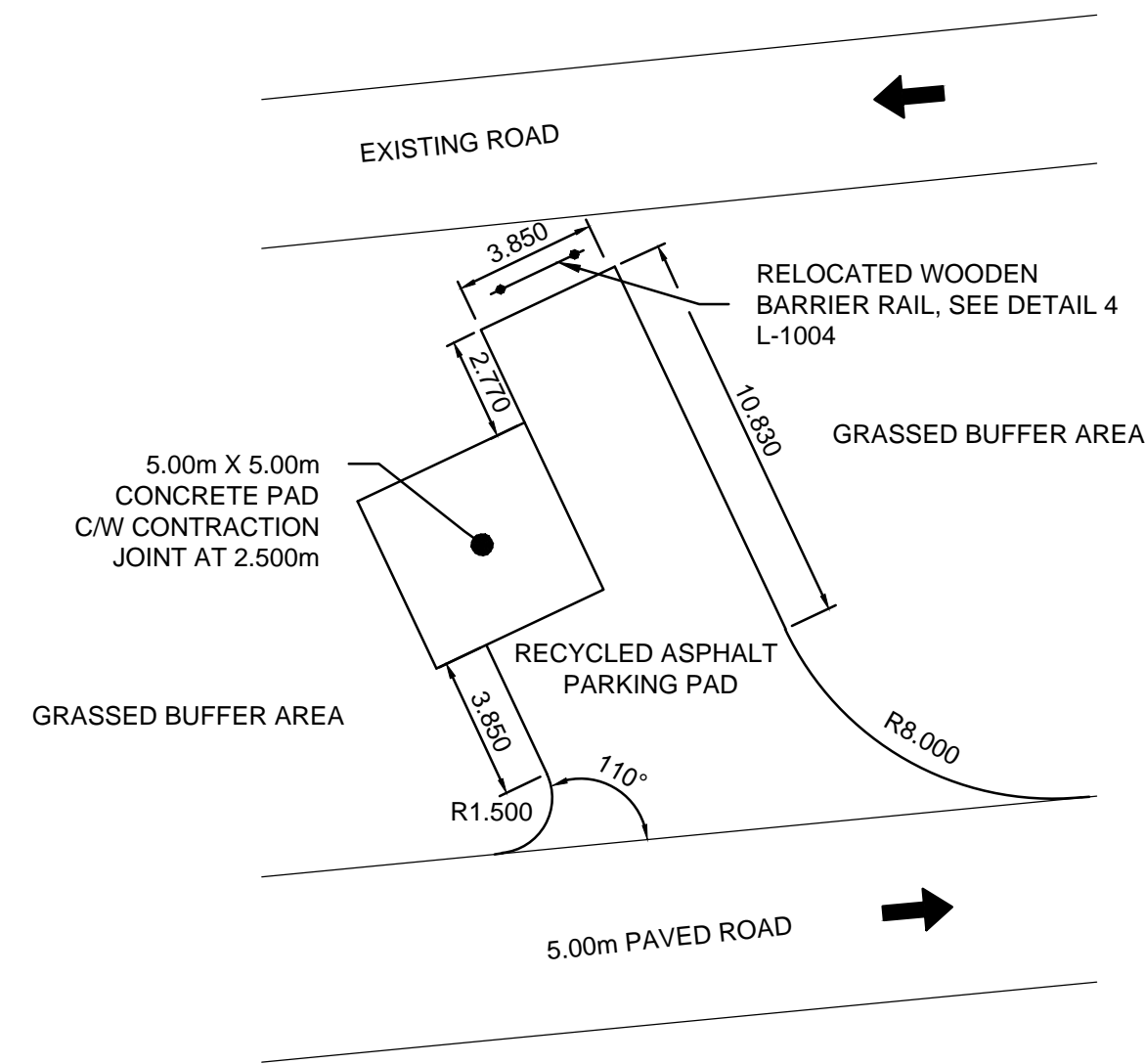
1 LOOP A TYPICAL BACK IN SITE DETAIL

1:200



4 LOOP'S C, D, E, & G TYPICAL SITE DETAIL

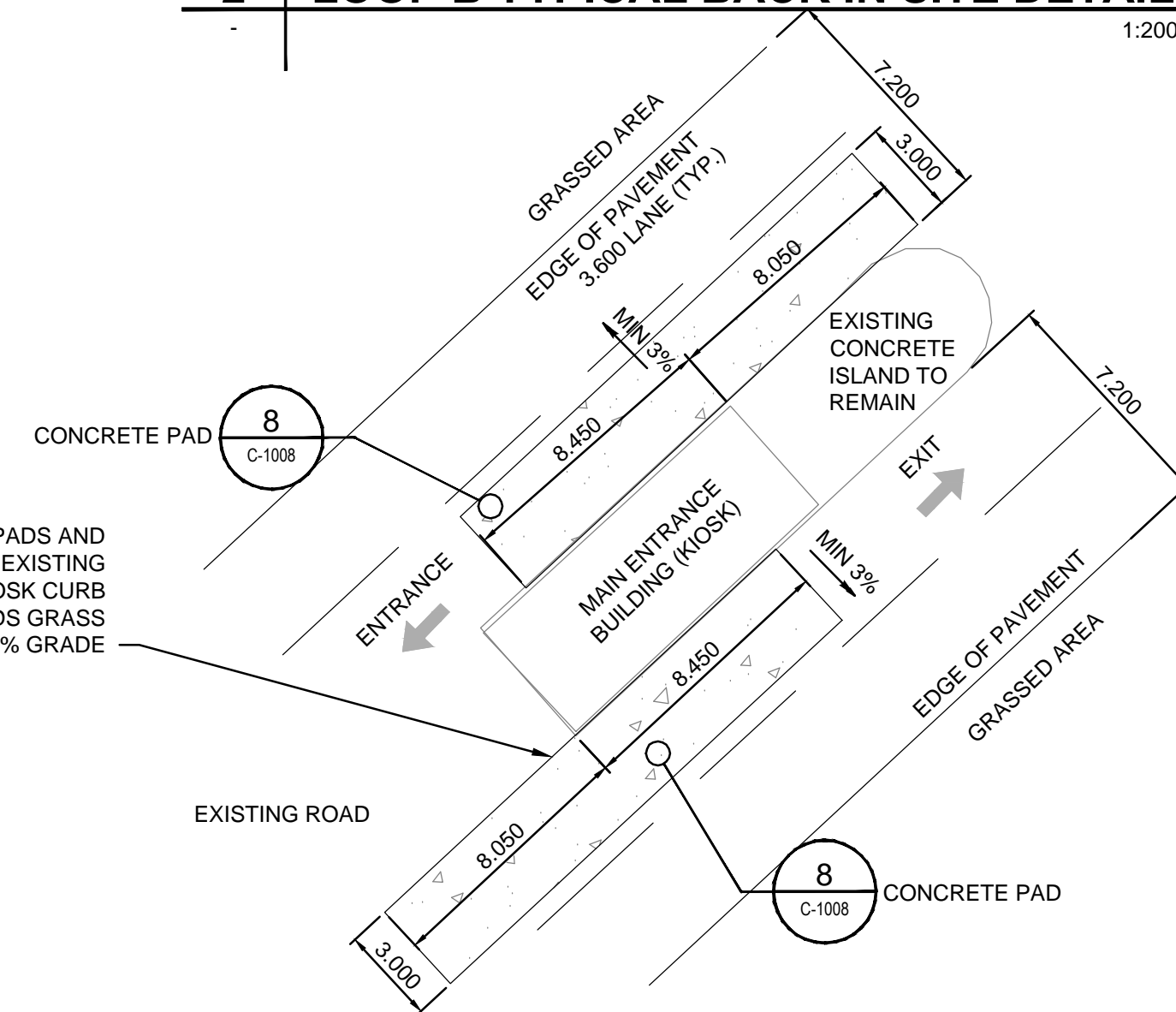
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2 LOOP B TYPICAL BACK IN SITE DETAIL

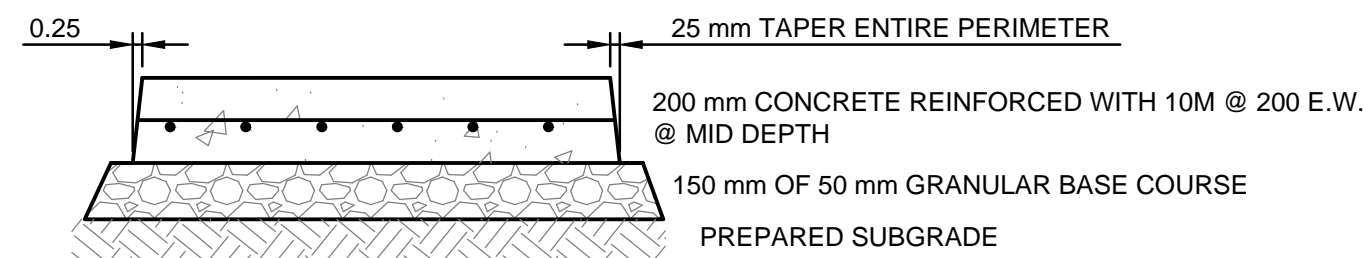
1:200

TOP OF NEW CONCRETE PADS AND PAVEMENT SHALL MATCH EXISTING ELEVATION AT KIOSK CURB AND SLOPE TOWARDS GRASS AREA AT MINIMUM 3% GRADE



5 KIOSK CONCRETE PAD DETAIL

1:200



8 ACCESS ROAD CONCRETE PAD

N.T.S.

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GENERAL NOTES

- ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
D	17-06-23	ISSUED FOR TENDER	DG	BR
	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 80% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BV

Revision / Révision	Revision / Révision
A detail number numéro de détail	A detail number numéro de détail
B source drawing no. de dessin no.	B source drawing no. de dessin no.
C detail on drawing no. détail sur dessin no.	C detail on drawing no. détail sur dessin no.

Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
AECOM	

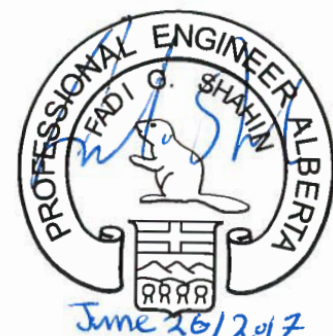
Client/Client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet	WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943
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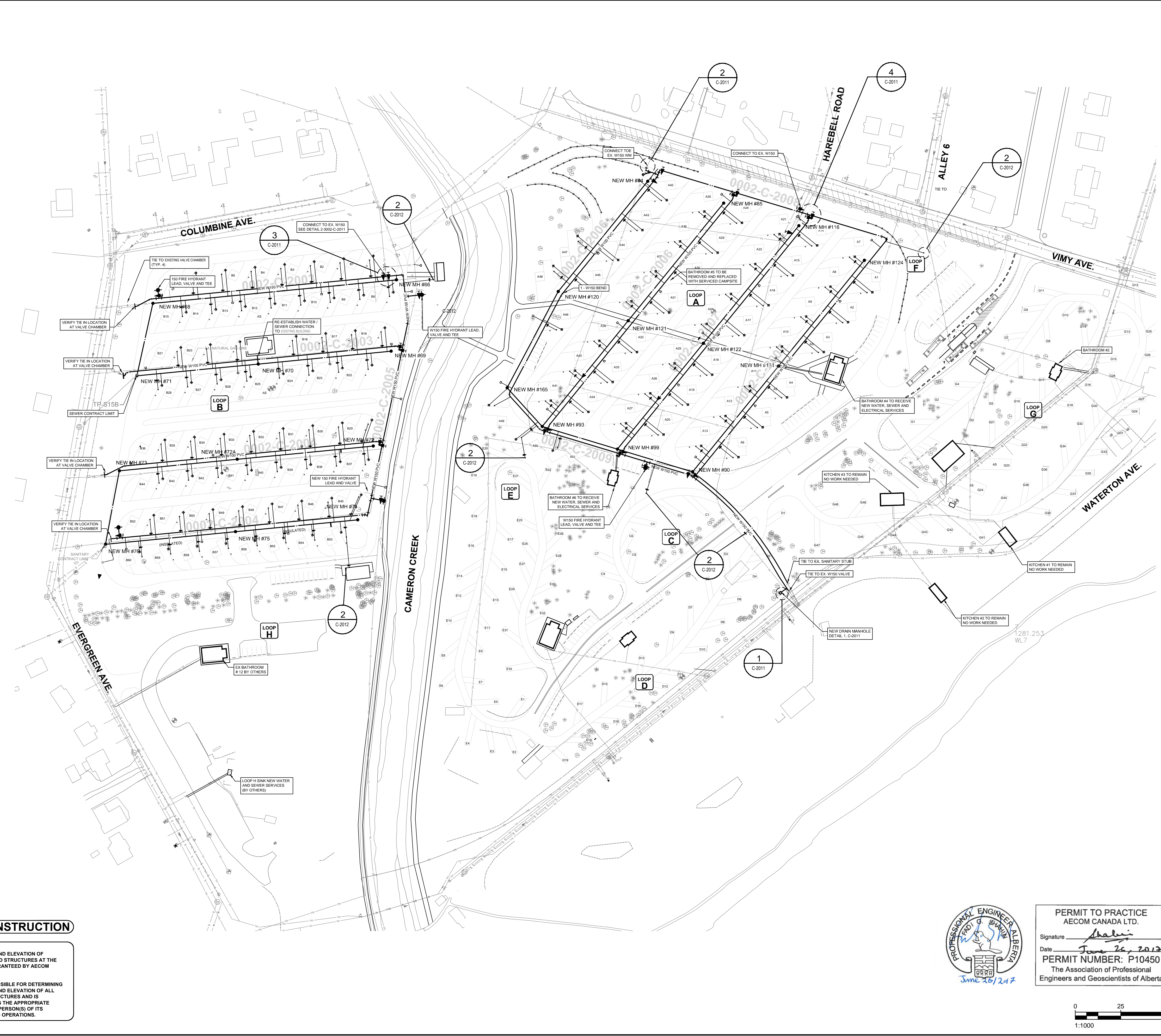
Drawing Title/Titre du dessin	ROAD, CONCRETE PAD AND PATHWAY DETAILS
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Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MR	2015-11-06
Designed by/Conçu par	Reviewed by/Revisé par	Scale/Echelle
BV	AS SHOWN	

PWGSC Project Manager/Administrateur de Projets TPSGC	Client Acceptance/Acceptation du client	Approved by/Approuvé par
Perk Responsible Officer/Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
60432200	-	-
Drawing Reference No./No. de référence du dessin		12 of 47
C-1008		



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AECOM CANADA LTD.
Signature: *G. Shawin*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional
Engineers and Geoscientists of Alberta



KEY PLAN

LEGEND

EXISTING	PROPOSED
WATER MAIN	---
SANITARY MAIN	---
SANITARY MANHOLE	●
VALVE	+
FIRE HYDRANT	⋈
WATER STAND PIPE	---
SANITARY RECEPTACLE	---
FITTINGS	---
TREE / BUSH	⊗
LIGHT SYMBOL	⊙
SIGN POST	---

GENERAL NOTES

- ALL NOTED PIPE DIAMETERS IN MILLIMETRES (mm). ALL OTHER DIMENSIONS IN METRES (m).
- FINAL LOCATION OF STANDPIPES IN LOOPS C.D.E. ETC. TO BE DETERMINED ONSITE BY THE PARKS CANADA REPRESENTATIVE.
- CONTRACTOR NOT TO EXCAVATE WITHIN TREE DRILINES WITHOUT APPROVAL FROM THE PARKS CANADA REPRESENTATIVE.

E	17-06-23	ISSUED FOR TENDER	DG	BR
D	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
C	15-12-14	ISSUED FOR 90% REVIEW	MG	BR
B	15-11-06	ISSUED FOR 60% REVIEW	MG	BR
A	15-09-30	ISSUED FOR PRE-DESIGN REPORT	MG	BR

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
Revision / Revision				
A		detail number / numéro de détail	A	
B		source drawing no. / de dessin no.	B/C	
C		detail on drawing no. / détail sur dessin no.		

Consultant's Name
Nom de l'expert-consult

AECOM

Client/Client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943

Drawing title/Titre du dessin

WATER AND SEWER SITE PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MG	2015-08-12
Designed by/Conçut par	Reviewed by/Revisé par	Scale/Echelle
BR	---	AS NOTED

PWOSC Project Manager/Administrateur de Projets TP50C

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
60432200	---	14 of 47

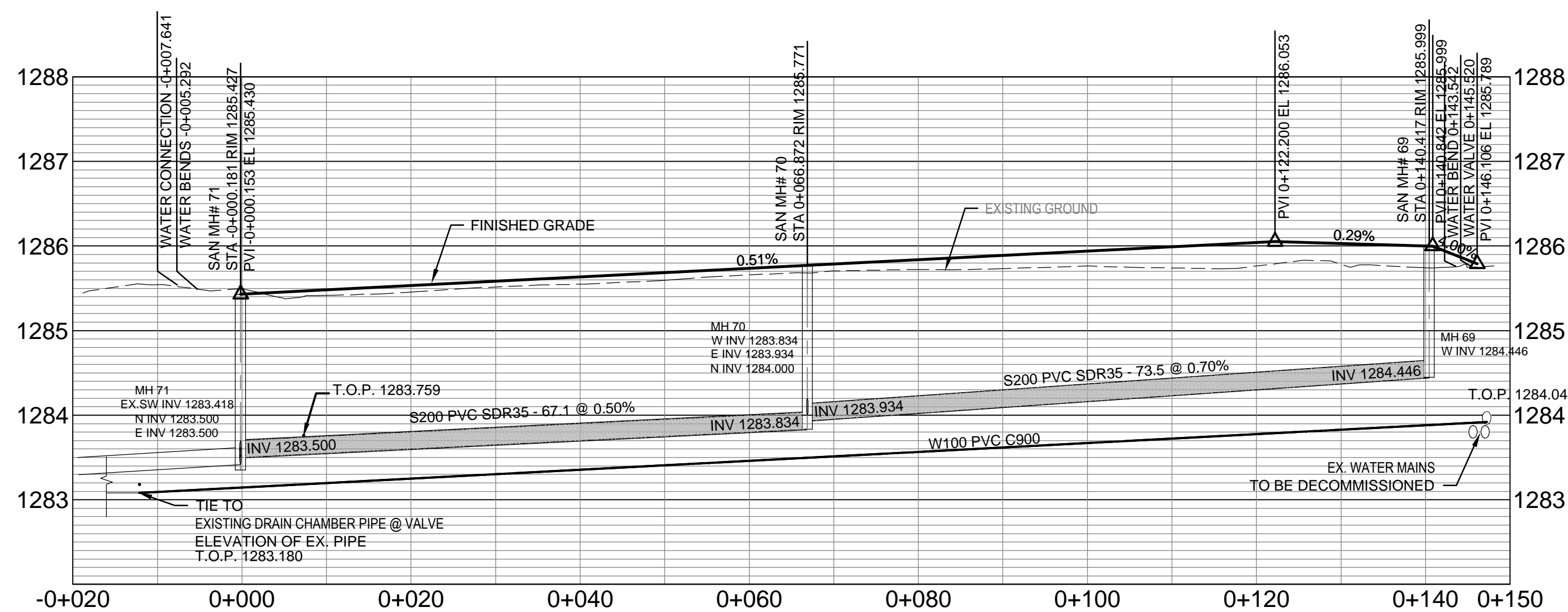
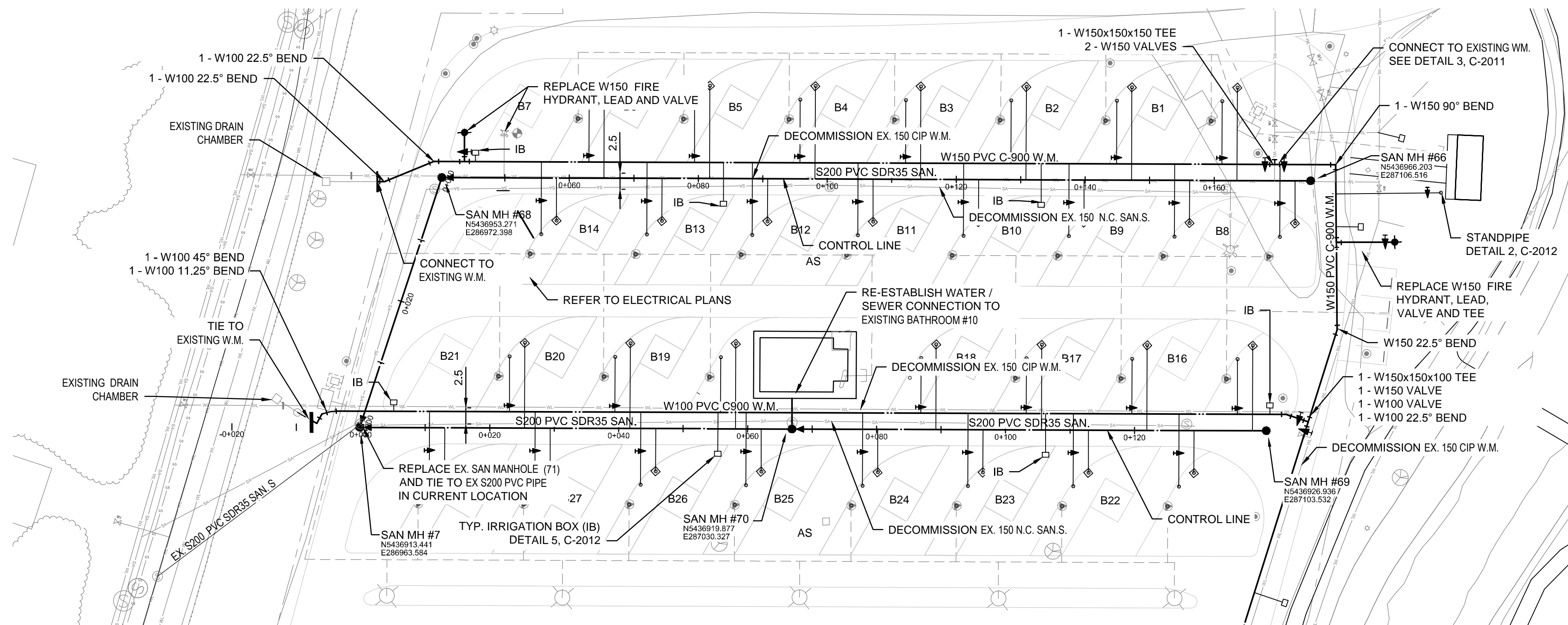
C-2002

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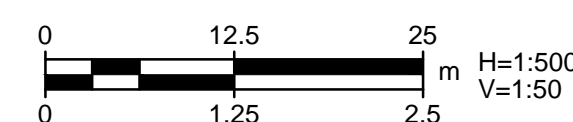
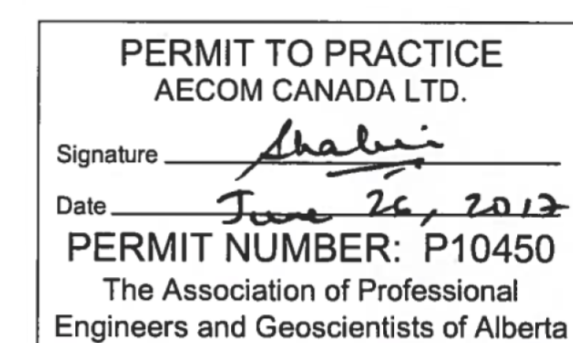
THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

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Signature: *Shaw*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

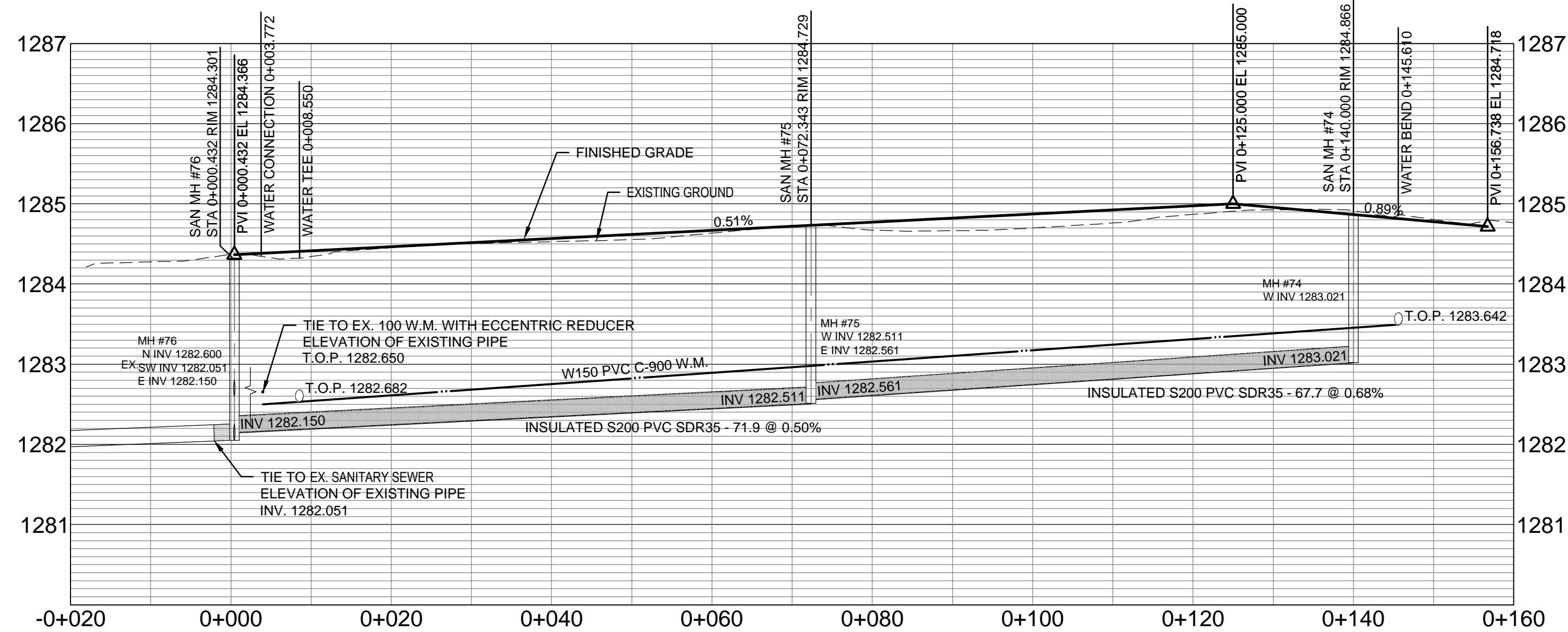
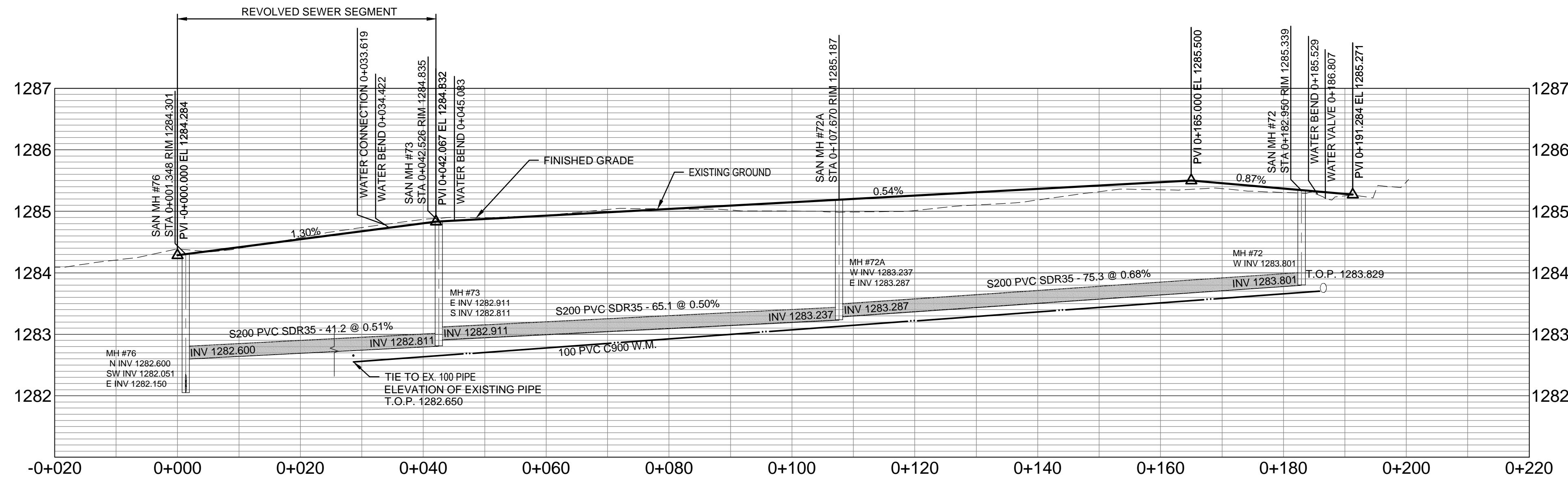
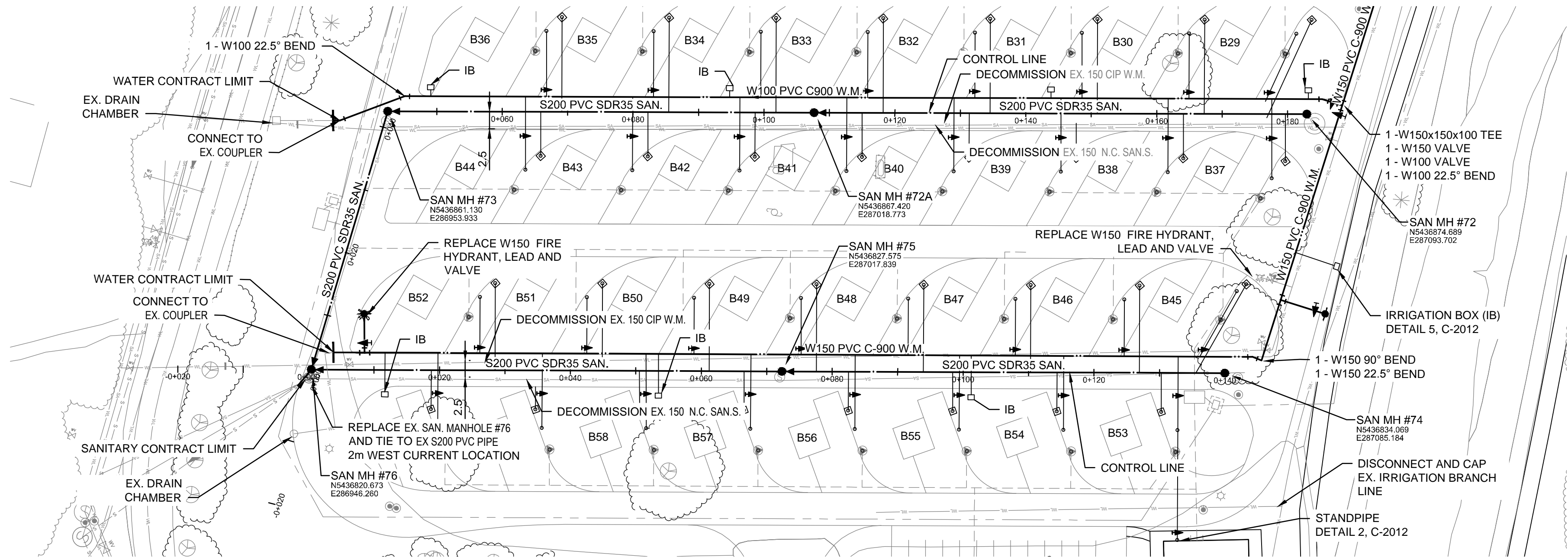
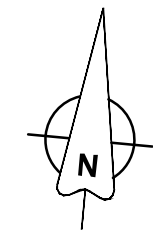


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Drawing Reference No./No. de référence du dessin
C-2003



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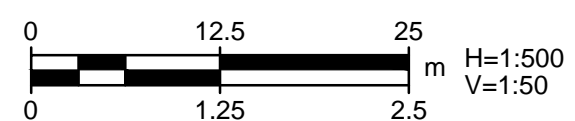


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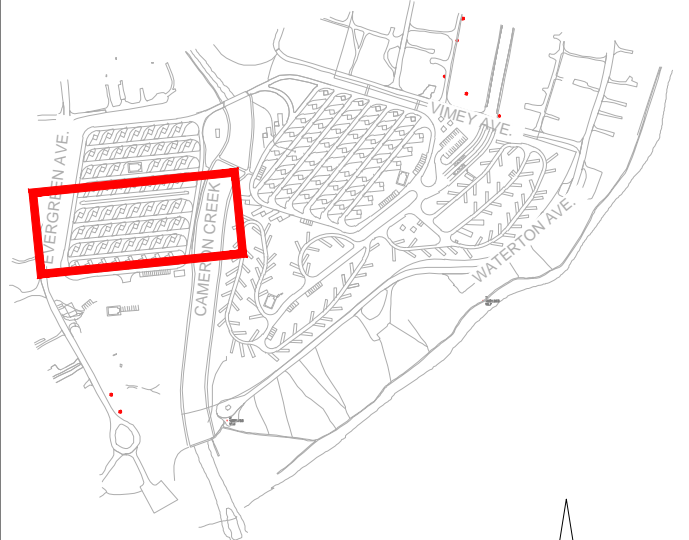
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Signature: *[Signature]*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta



KEY PLAN



LEGEND

EXISTING	PROPOSED
WATER MAIN	—
SANITARY MAIN	—
SANITARY MANHOLE	●
VALVE	●
FIRE HYDRANT	●
WATER STAND PIPE	—
SANITARY RECEPTACLE	—
FITTINGS	—
TREE / BUSH	—
LIGHT SYMBOL	—
SIGN POST	—
IRRIGATION BOX (IB)	—
ELECTRICAL SECONDARY	—
ELECTRICAL PEDESTAL	—

GENERAL NOTES

- ALL NOTED PIPE DIAMETERS IN MILLIMETRES (mm). ALL OTHER DIMENSIONS IN METRES (m)
- CONTRACTOR NOT TO EXCAVATE WITHIN TREE DRIPLINES WITHOUT APPROVAL FROM THE PARKS CANADA REPRESENTATIVE.
- THE RIM ELEVATION ON THE DRAWINGS IS TENTATIVE ONLY. ALL THE MANHOLE RIMS SHALL BE MADE FLUSH WITH FINAL SURFACE FINISHED ELEVATIONS.

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-11-06	ISSUED FOR 60% REVIEW	MG	BR

Revision / Revision
A detail number numéro de détail
B source drawing no. de dessin no.
C detail on drawing no. détail sur dessin no.

Consultant's Name
Nom de l'expert-conseil

AECOM

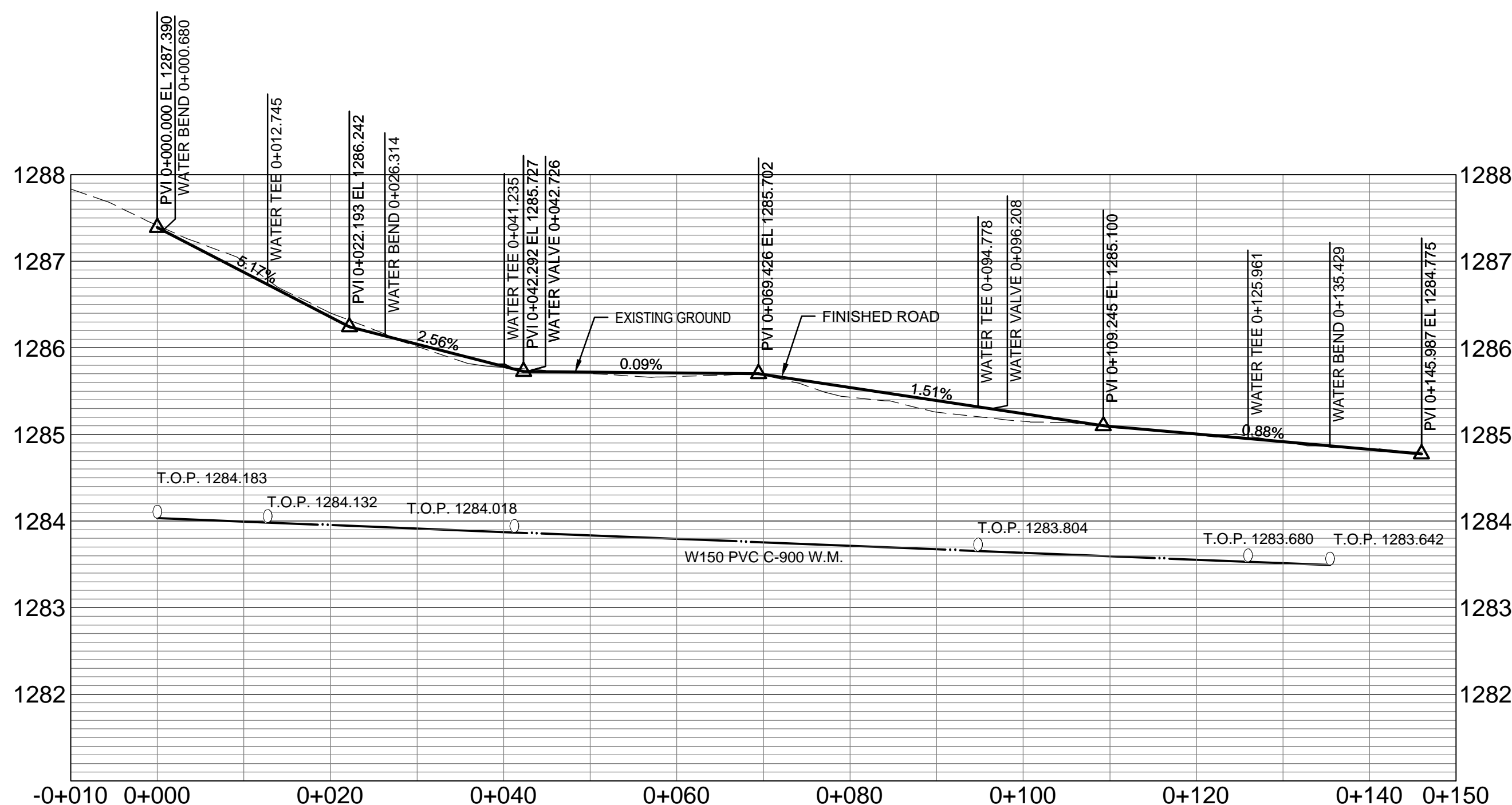
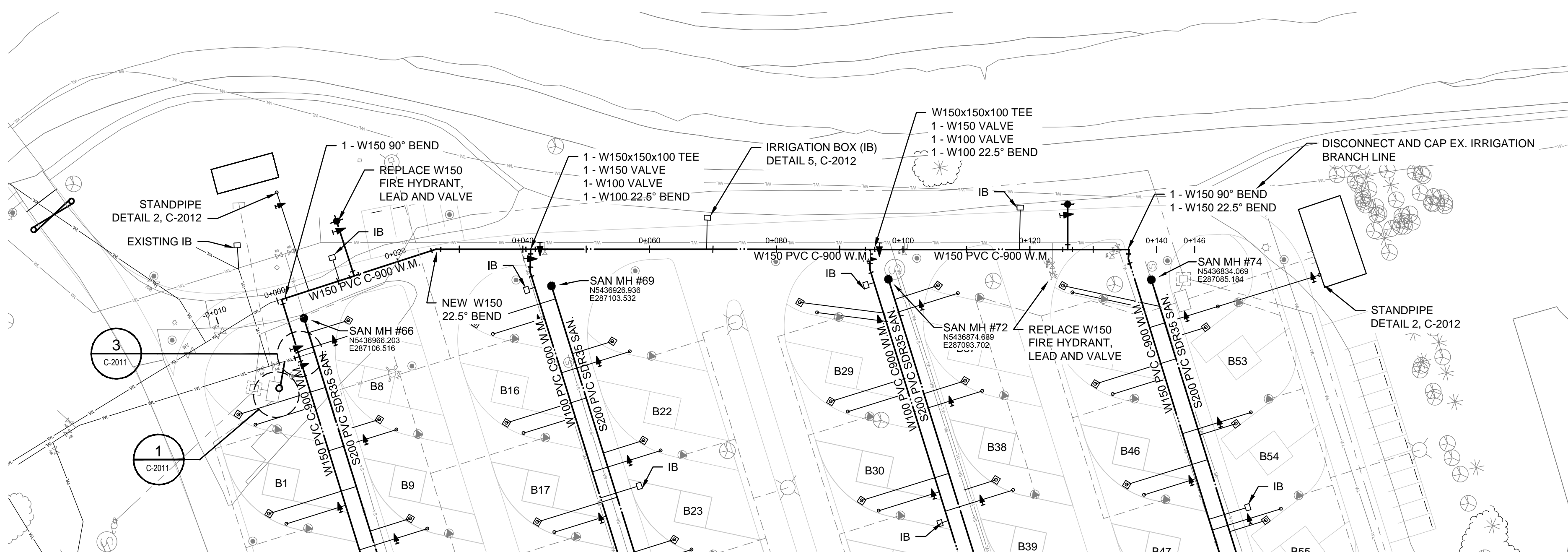
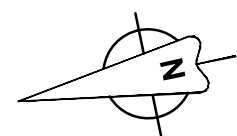
Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada
Western and Northern Region
Ouest et Nord du Canada

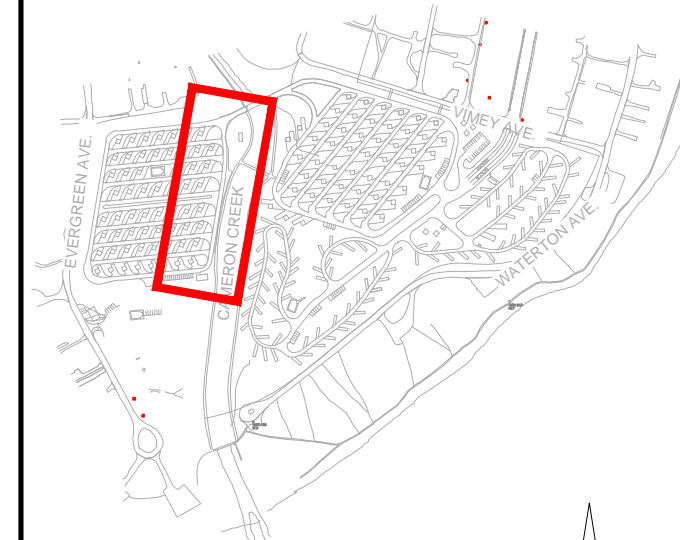
Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**WATER AND SEWER
LOOP B PLAN/PROFILES**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Conçue par BR	Reviewed by/Revisé par —	Scale/Echelle AS NOTED
PWSCC Project Manager/Administrateur de Projet TPSCC Approved/Approuvé par		
Client Acceptance/acceptation du client	Approved/Approuvé par	
Project No./No. du projet 60432200	Asset No./No. du bien —	Sheet No./ No. de la feuille 16 of 47
Drawing Reference No./No. de référence du dessin C-2004		



KEY PLAN



LEGEND



EXISTING	PROPOSED
WATER MAIN	WATER MAIN
SANITARY MAIN	SANITARY MAIN
SANITARY MANHOLE	SANITARY MANHOLE
VALVE	VALVE
FIRE HYDRANT	FIRE HYDRANT
WATER STAND PIPE	WATER STAND PIPE
SANITARY RECEPTACLE	SANITARY RECEPTACLE
FITTINGS	FITTINGS
TREE / BUSH	TREE / BUSH
LIGHT SYMBOL	LIGHT SYMBOL
SIGN POST	SIGN POST
IRRIGATION BOX (IB)	IRRIGATION BOX (IB)
ELECTRICAL SECONDARY	ELECTRICAL SECONDARY
ELECTRICAL PEDESTAL	ELECTRICAL PEDESTAL

GENERAL NOTES

- ALL NOTED PIPE DIAMETERS IN MILLIMETRES (mm). ALL OTHER DIMENSIONS IN METRES (m)
- CONTRACTOR NOT TO EXCAVATE WITHIN TREE DRIP LINES WITHOUT APPROVAL FROM THE PARKS CANADA REPRESENTATIVE.
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D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-10-04	ISSUED FOR 60% REVIEW	MG	BR

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
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Revision / Révision		
	A detail number numéro de détail	
	B source drawing no. de dessin no.	
	C detail on drawing no.	

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scellé de l'ingénieur



Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada
Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin

**WATER AND SEWER
LOOP B PLAN/PROFILES**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Concepté par BR	Reviewed by/Revisé par AS NOTED	Scale/Echelle AS NOTED

Project Manager/Administrateur de Projet
TPSC

Client Acceptance/Acceptation du client
Approved/Approuvé par

Project No./No. du projet
60432200

Sheet No./No. de la feuille
17 of 47

Drawing Reference No./No. de référence du dessin
C-2005

NOT FOR CONSTRUCTION

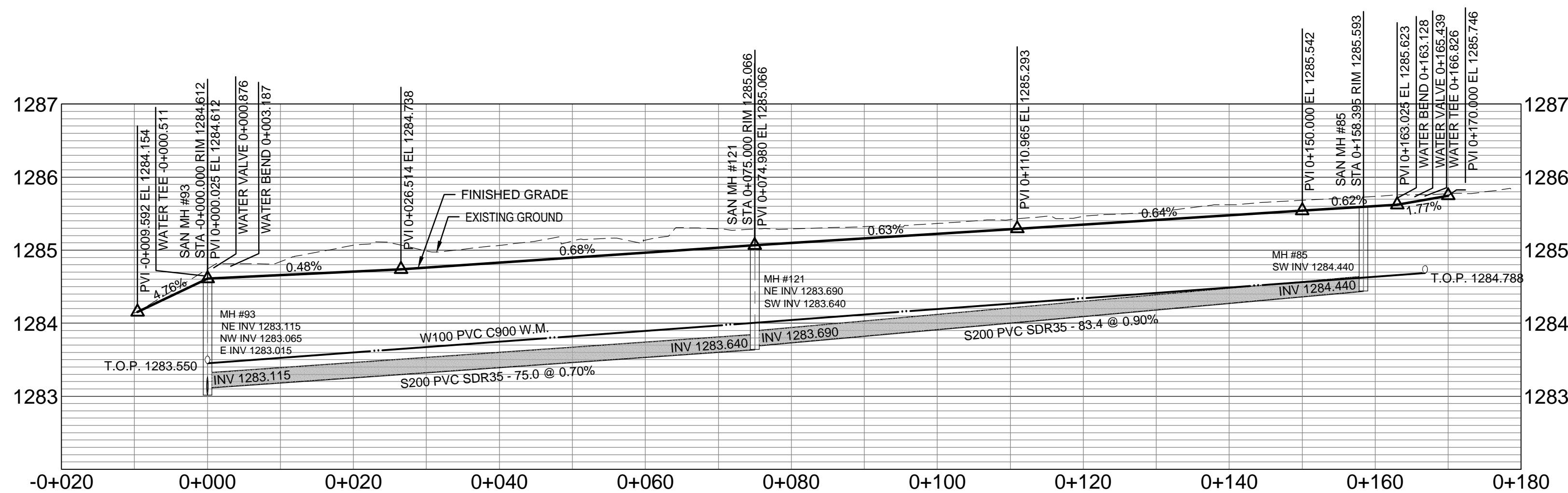
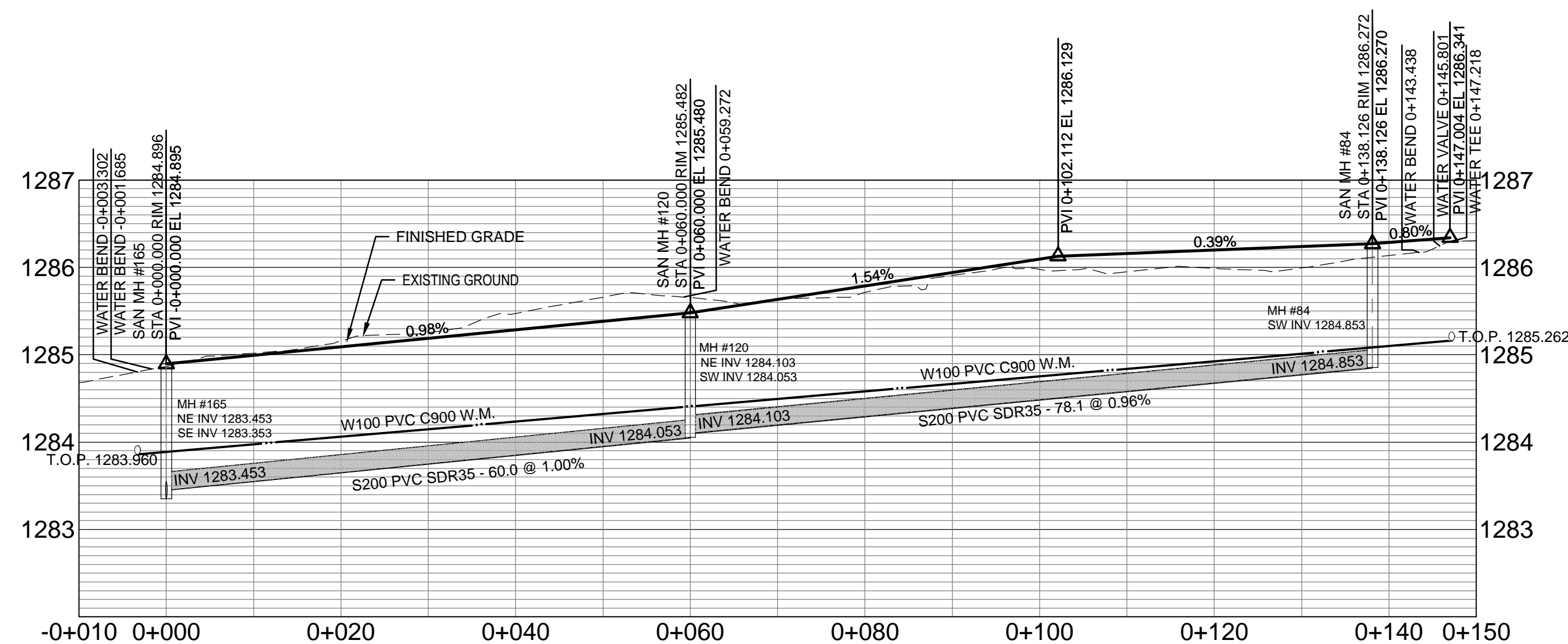
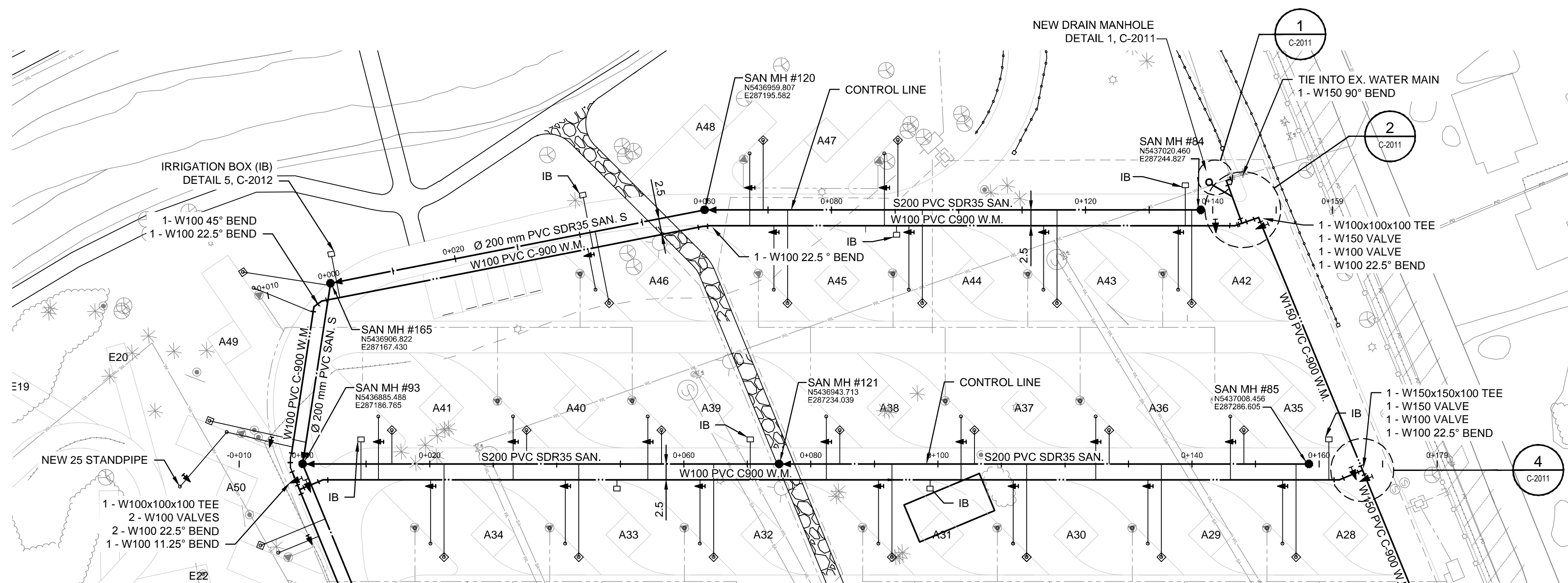
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PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta



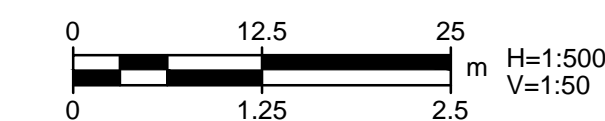


NOTICE:
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PERMIT TO PRACTICE
 AECOM CANADA LTD.
 Signature *Shabir*
 Date *June 26, 2012*
 PERMIT NUMBER: P10450
 The Association of Professional
 Engineers and Geoscientists of Alberta



	EXISTING	PROPOSED
WATER MAIN	—	—
SANITARY MAIN	—	—
SANITARY MANHOLE	⊙	●
VALVE	⌘	⬮
FIRE HYDRANT	⌘	⬮
WATER STAND PIPE	—	—
SANITARY RECEPTACLE FITTINGS	⊙	⬮
TREE / BUSH	⊙ *	⬮
LIGHT SYMBOL	⊙	⬮
SIGN POST	⊙	⬮
IRRIGATION BOX (IB)	—	—
ELECTRICAL SECONDARY	—	—
ELECTRICAL PEDESTAL	⊙	●

1. ALL NOTED PIPE DIAMETERS IN MILLIMETRES (mm).
ALL OTHER DIMENSIONS IN METRES (m)
2. CONTRACTOR NOT TO EXCAVATE WITHIN TREE
DRIPLINES WITHOUT APPROVAL FROM THE PARKS
CANADA REPRESENTATIVE.
3. THE RIM ELEVATION ON THE DRAWINGS IS
TENTATIVE ONLY. ALL THE MANHOLE RIMS SHALL
BE MADE FLUSH WITH FINAL SURFACE FINISHED
ELEVATIONS.

D	17-06-23	ISSUED FOR TENDER	DG	BF
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BF
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BF
A	15-11-04	ISSUED FOR 60% REVIEW	MG	BF

Revision / Revision	
	<p>A detail number numéro de détail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no.</p>

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
--	------------------------------------

AECOM

Canada

Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

Drawing title/Titre du dessin

WATER AND SEWER
LOOP A PLAN/PROFILES

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Concept par BR	Reviewed by/Revisé par — —	Scale/Échelle AS NOTED

PWGSC Project Manager/Administrateur de Projets TPSGC	
---	--

Circumstance	Percentage (%)
If someone is attacking you	85
If someone is threatening you	75
If someone is harassing you	65
If someone is insulting you	55
If someone is annoying you	45

Client Acceptance/Acceptation du client	Approved by/Approuvé par
---	--------------------------

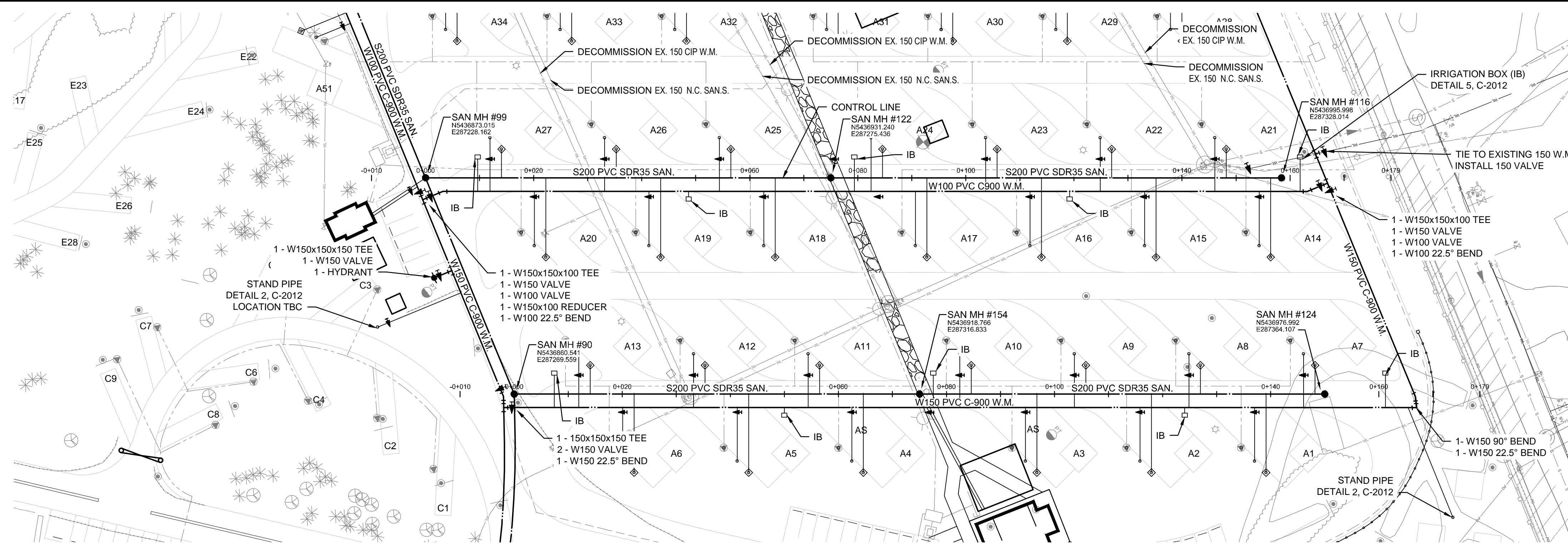
 Park Responsible Officer/Agent Responsable

Project No./No. du projet	Asset No./No. du bien	Sheet No./
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60432200	-	No. de la 1a
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Drawing Reference No./No. de référence du dessin 18 of 4

C-2006	
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KEY PLAN

LEGEND

	EXISTING	PROPOSED
WATER MAIN	---	---
SANITARY MAIN	---	---
SANITARY MANHOLE	○	●
VALVE	+	+
FIRE HYDRANT	+	+
WATER STAND PIPE	---	---
SANITARY RECEPTACLE	+	+
FITTINGS	+	+
TREE / BUSH	+	+
LIGHT SYMBOL	+	+
SIGN POST	+	+
IRRIGATION BOX (IB)	+	+
ELECTRICAL SECONDARY	---	---
ELECTRICAL PEDESTAL	+	+

GENERAL NOTES

- ALL NOTED PIPE DIAMETERS IN MILLIMETRES (mm). ALL OTHER DIMENSIONS IN METRES (m).
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No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-11-04	ISSUED FOR 60% REVIEW	MG	BR

Revision / Revision

A

C

A

B

C

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scieu de l'ingénieur

AECOM

Canada

Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS

FII PROJECT NO. 943

Drawing title/Titre du dessin

WATER AND SEWER LOOP A PLAN/PROFILES

Surveyed by/Arpenté par

AECOM

Drawn by/Dessiné par

MG

Date/Date

2015-09-07

Designed by/Concept par

BR

Reviewed by/Revisé par

AS NOTED

Scale/Echelle

AS NOTED

FWSC Project Manager/Administrateur de Projet TPSOC

-

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Point Responsible Officer/Agent Responsable

FWSC Project Manager/Administrateur de Projet TPSOC

Project No./No. du projet

60432200

Asset No./No. du bien

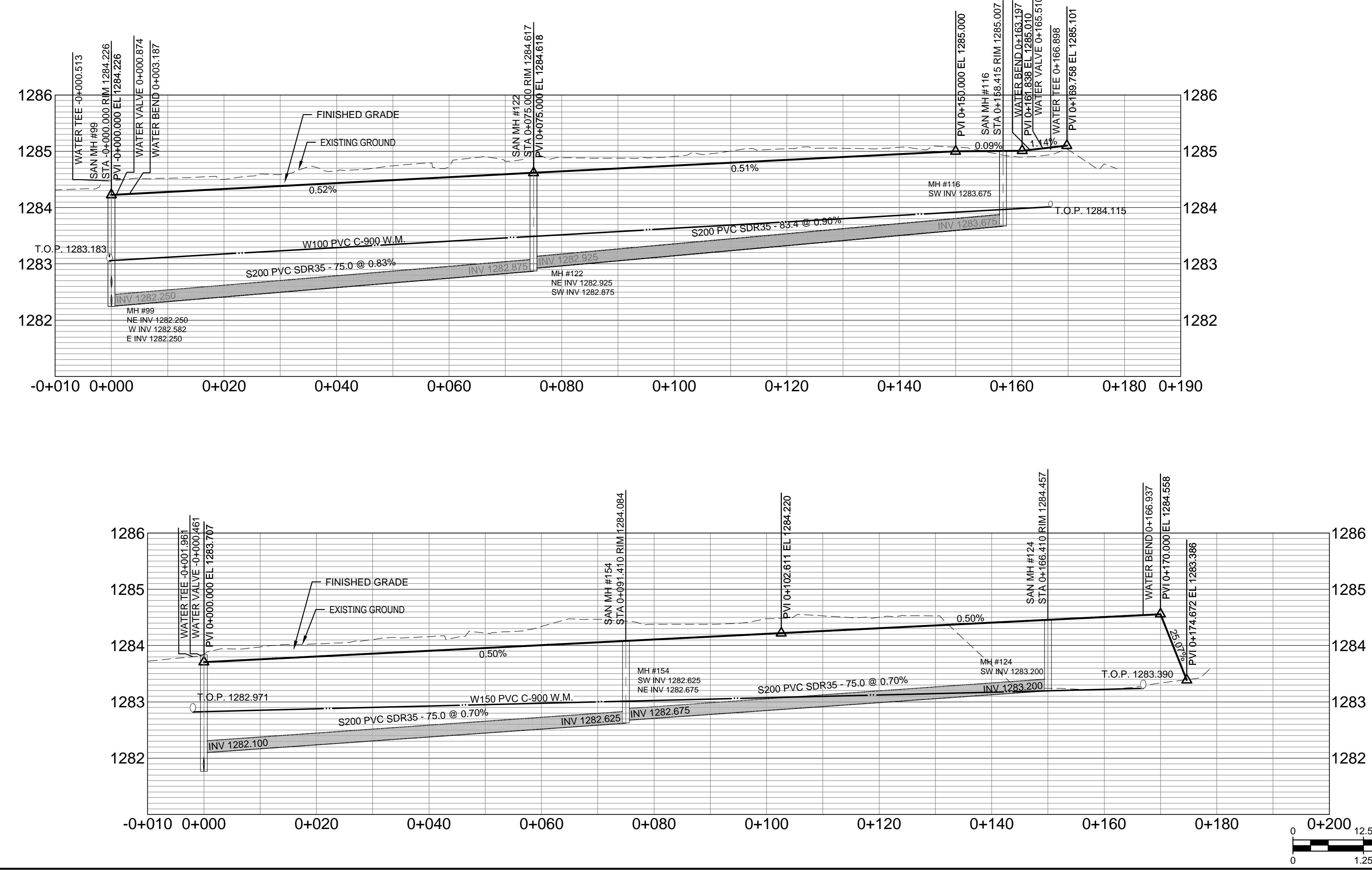
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Sheet No./No. de la feuille

19 of 47

Drawing Reference No./No. de référence du dessin

C-2007



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PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: *[Signature]*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

NOT FOR CONSTRUCTION

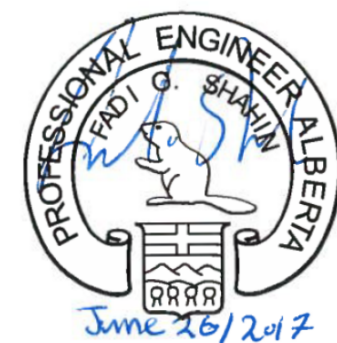
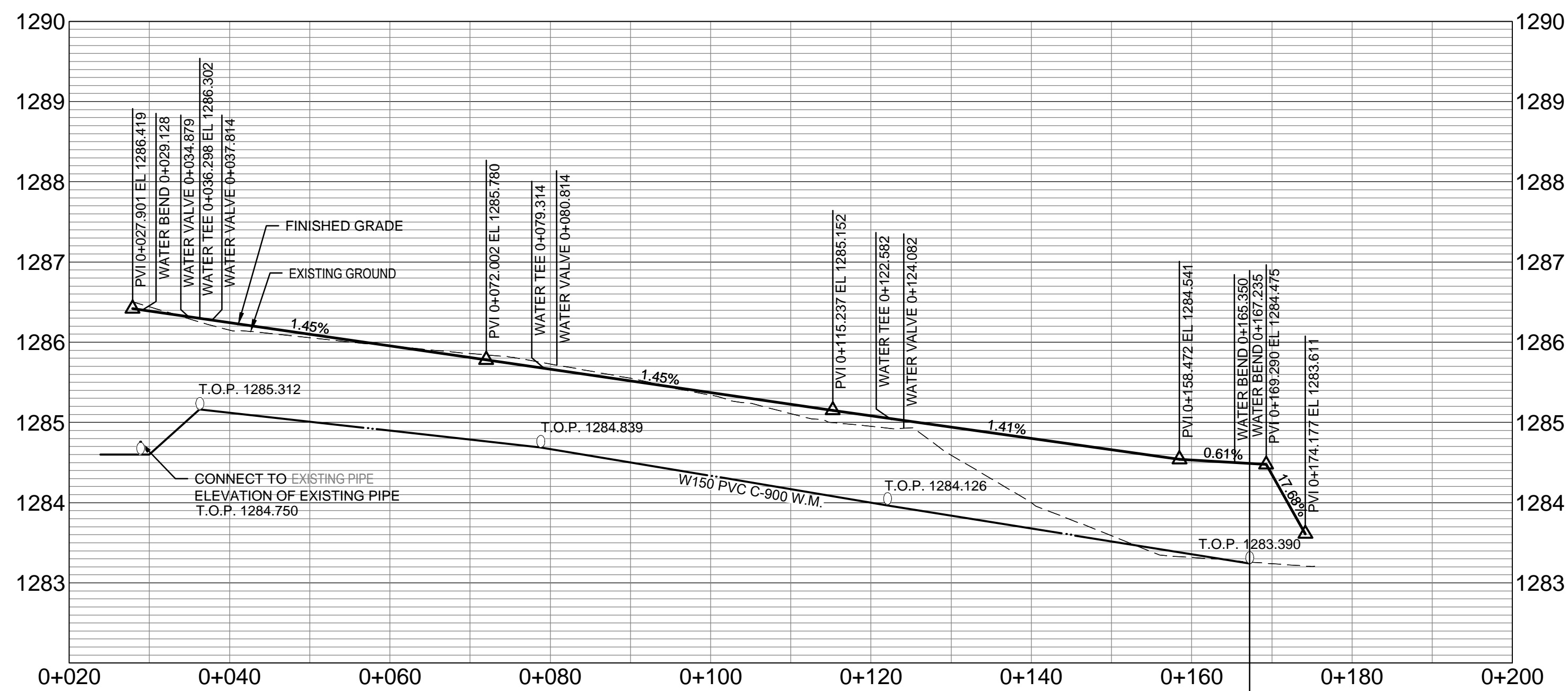
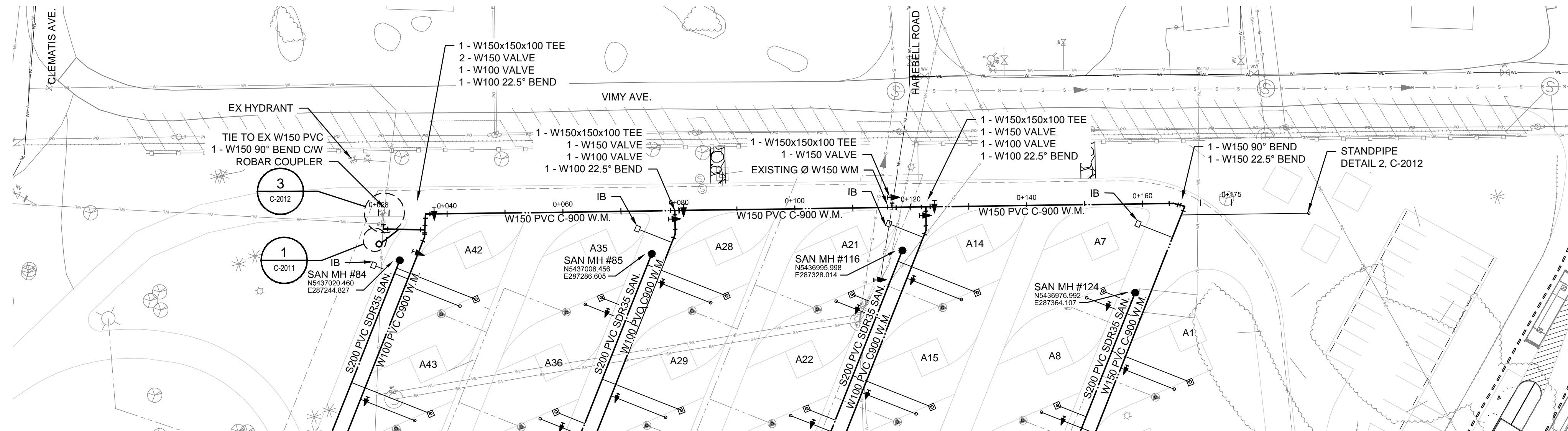
NOTICE:
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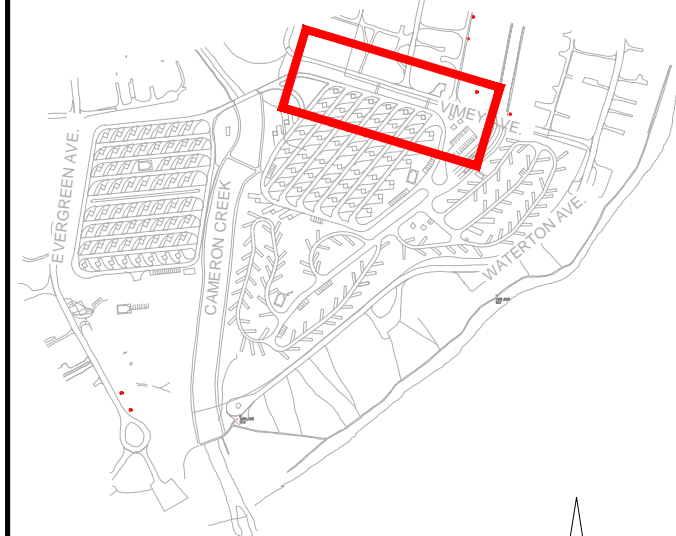
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Signature: *[Signature]*
Date: *June 26, 2017*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta



KEY PLAN



LEGEND

	EXISTING	PROPOSED
WATER MAIN		
SANITARY MAIN		
SANITARY MANHOLE		
FIRE HYDRANT		
WATER STAND PIPE		
SANITARY RECEPTACLE		
FITTINGS		
TREE / BUSH		
LIGHT SYMBOL		
SIGN POST		
IRRIGATION BOX (IB)		
ELECTRICAL SECONDARY		
ELECTRICAL PEDESTAL		

GENERAL NOTES

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C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-10-04	ISSUED FOR 60% REVIEW	MG	BR

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision	
A	detail number numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Name
Nom de l'expert-consult

AECOM

Eng. Stamp
Scelu de l'ingénieur

Canada

Client/Client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin

**WATER AND SEWER
LOOP A PLAN/PROFILES**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Conçue par BR	Reviewed by/Revisé par --	Scale/Echelle AS NOTED

PWOSC Project Manager/Administrateur de Projets TP502

Client Acceptance/Acceptation du client

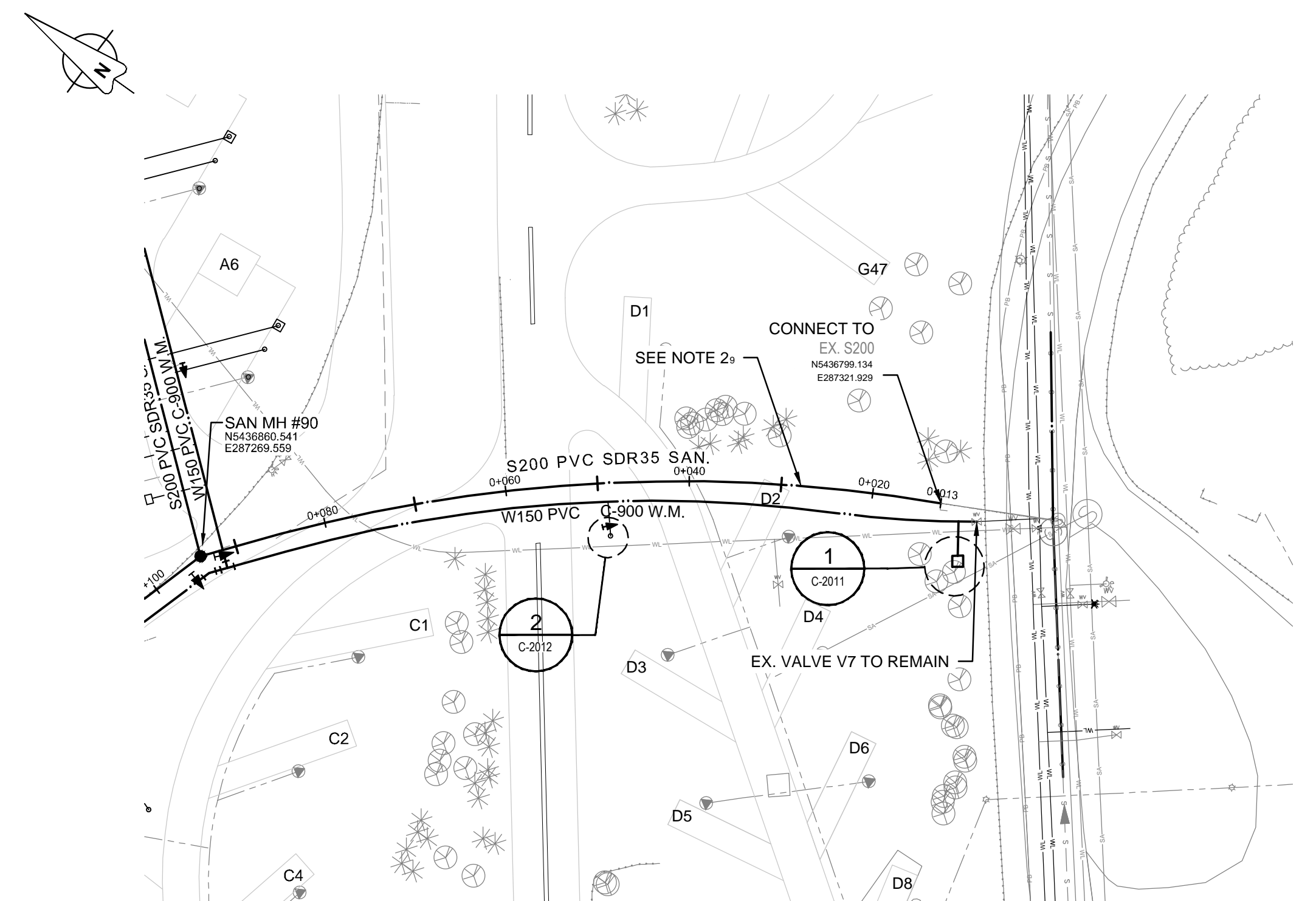
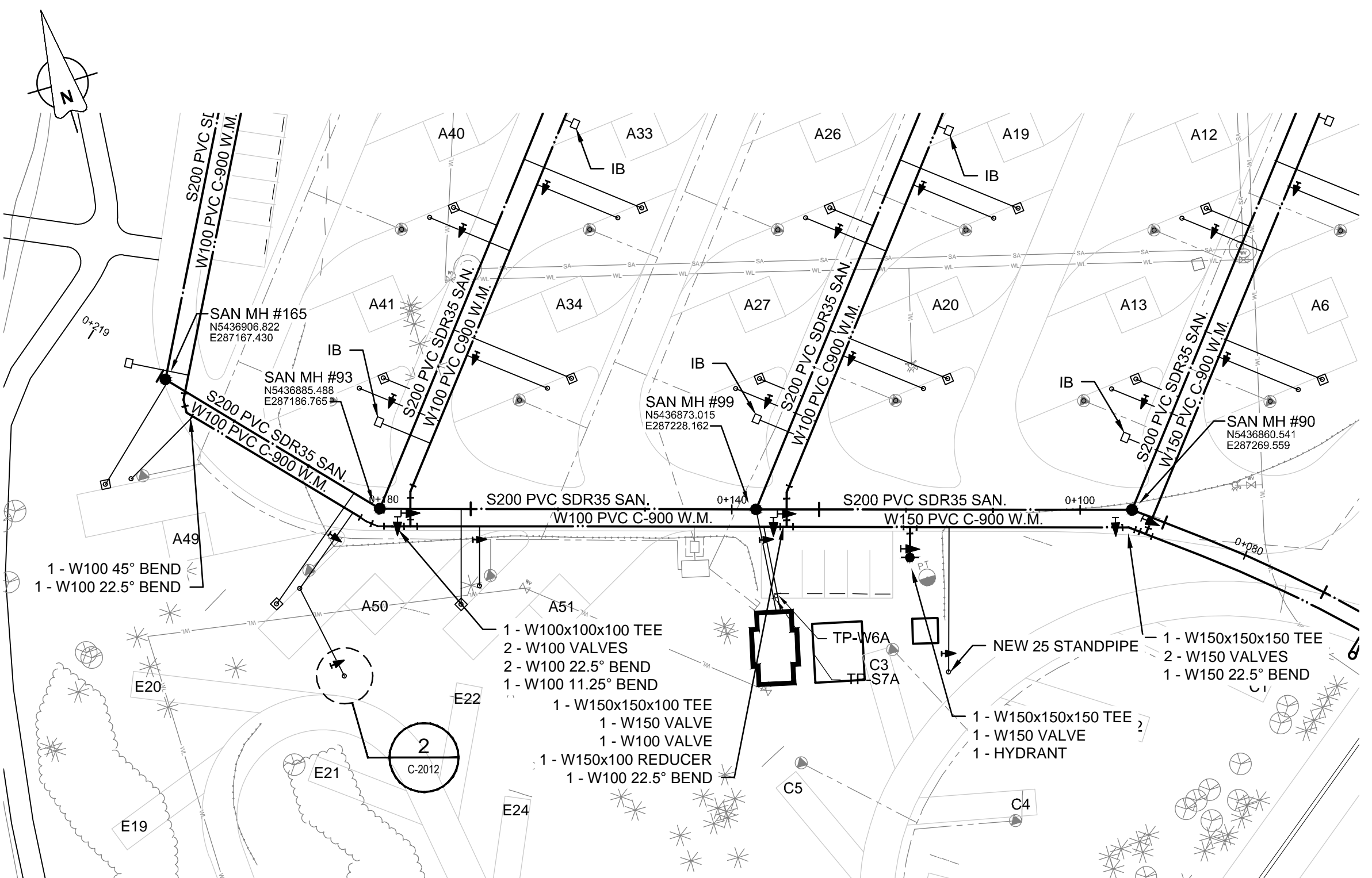
Perk Representative/Représentant Perk

Project No./No. du projet
60432200

Asset No./No. de l'actif
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Sheet No./No. de la feuille
20 of 47

Drawing Reference No./No. de référence du dessin
C-2008



KEY PLAN

LEGEND

EXISTING	PROPOSED
WATER MAIN	WATER MAIN
SANITARY MAIN	SANITARY MAIN
SANITARY MANHOLE	SANITARY MANHOLE
FIRE HYDRANT	FIRE HYDRANT
WATER STAND PIPE	WATER STAND PIPE
SANITARY RECEPTACLE	SANITARY RECEPTACLE
FITTINGS	FITTINGS
TREE / BUSH	TREE / BUSH
LIGHT SYMBOL	LIGHT SYMBOL
SIGN POST	SIGN POST
IRRIGATION BOX (IB)	IRRIGATION BOX (IB)
ELECTRICAL SECONDARY	ELECTRICAL SECONDARY
ELECTRICAL PEDestal	ELECTRICAL PEDestal

GENERAL NOTES

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C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
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A	15-10-04	ISSUED FOR 60% REVIEW	MG	BR

Revision / Révision

A

C

A

B

C

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Scieu de l'ingénieur

Client/client

Parks Canada
Agency

L'Agence Parcs
Canada

Project title/Titre du projet

**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin

**WATER AND SEWER
LOOP A PLAN/PROFILES**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	MG	2015-09-07

Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
BR	---	AS NOTED

PWOSC Project Manager/Administrateur de Projet TPSC

Client Acceptance/Acceptation du client

Approved by/Approuvé par

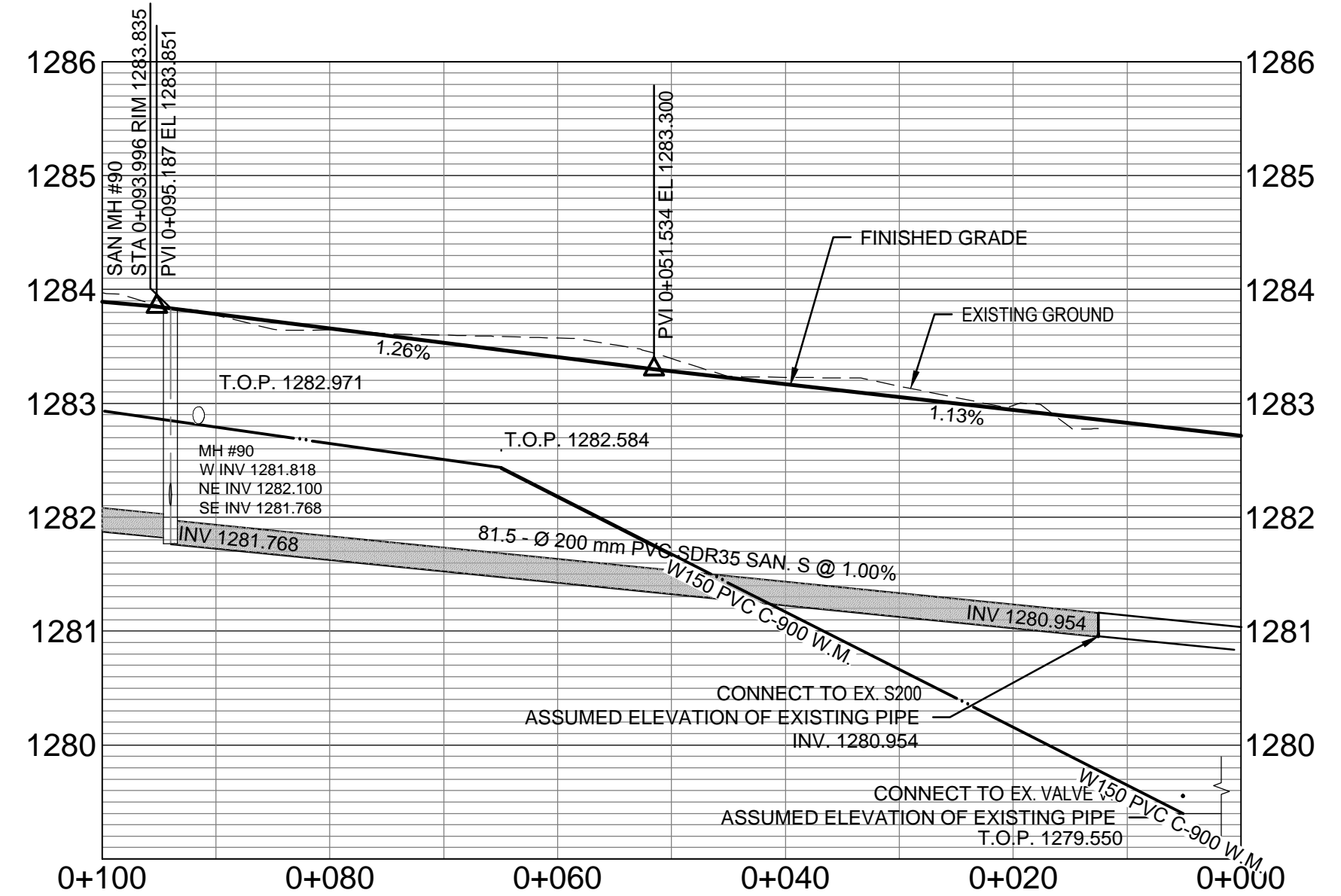
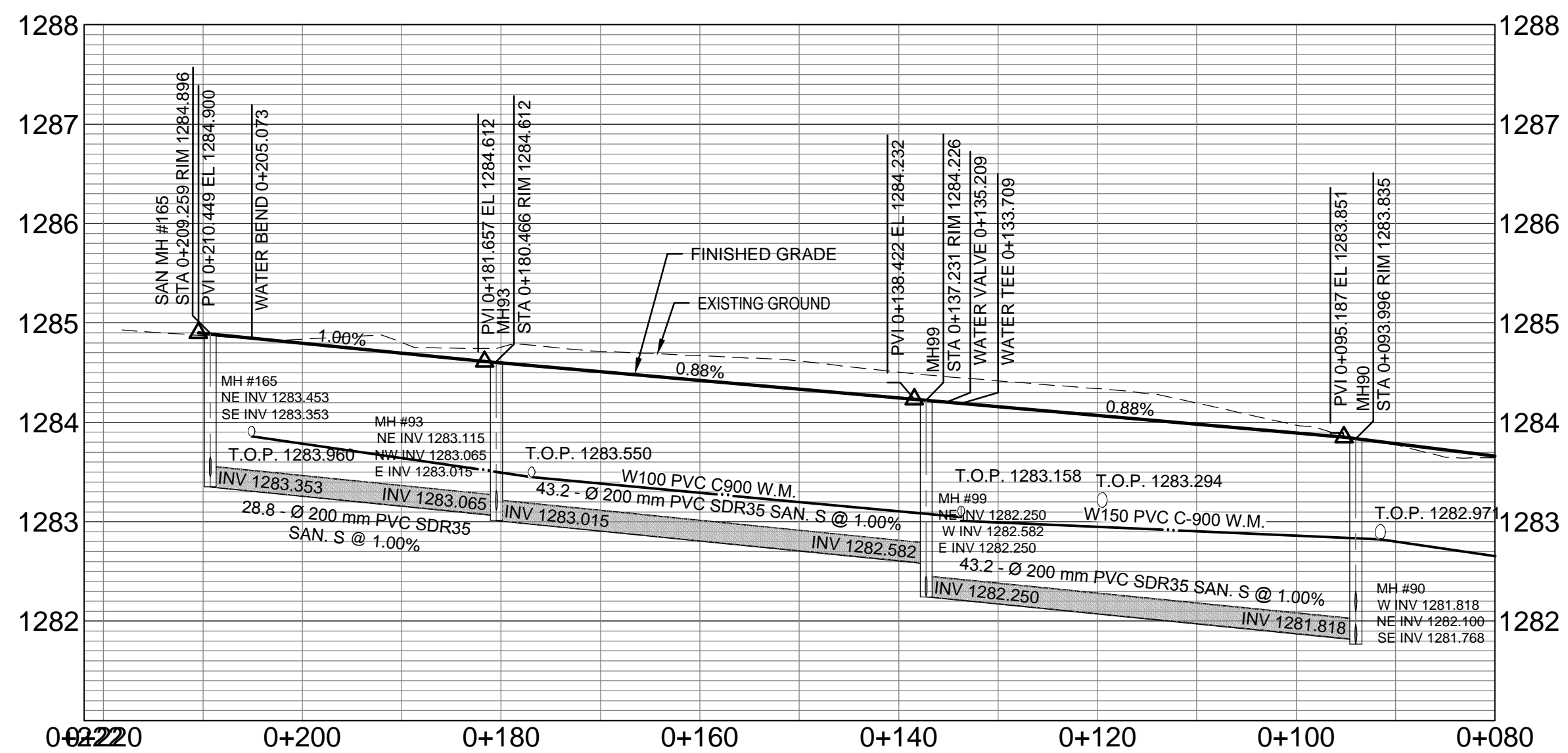
Per. Responsible Officer/Agnt. Responsable

PWOSC Project Manager/Administrateur de Projet TPSC

Project No./No. du projet	Sheet No./No. de la feuille	Sheet No./No. de la feuille
60432200	-	21 of 47

Drawing Reference No./No. de référence du dessin

C-2009



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June 26, 2017

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Signature:
Date: **June 26, 2017**
PERMIT NUMBER: P10450
The Association of Professional
Engineers and Geoscientists of Alberta

0 12.5 25
0 1.25 2.5

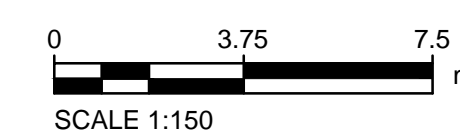
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PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature Shabir
Date June 26, 2013
PERMIT NUMBER: P10450
The Association of Professional
Engineers and Geoscientists of Alberta



	
Client/client 	Parks Canada Agence Western and Northern Region
	L'Agence Parcs Canada Ouest et Nord du Canada

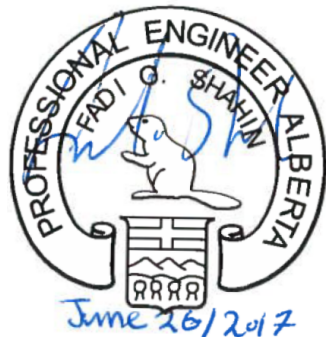
Project title/Title du projet

WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943

Drawing title/Title du dessin

CAMPSITE LOT SECTIONS AND DETAILS

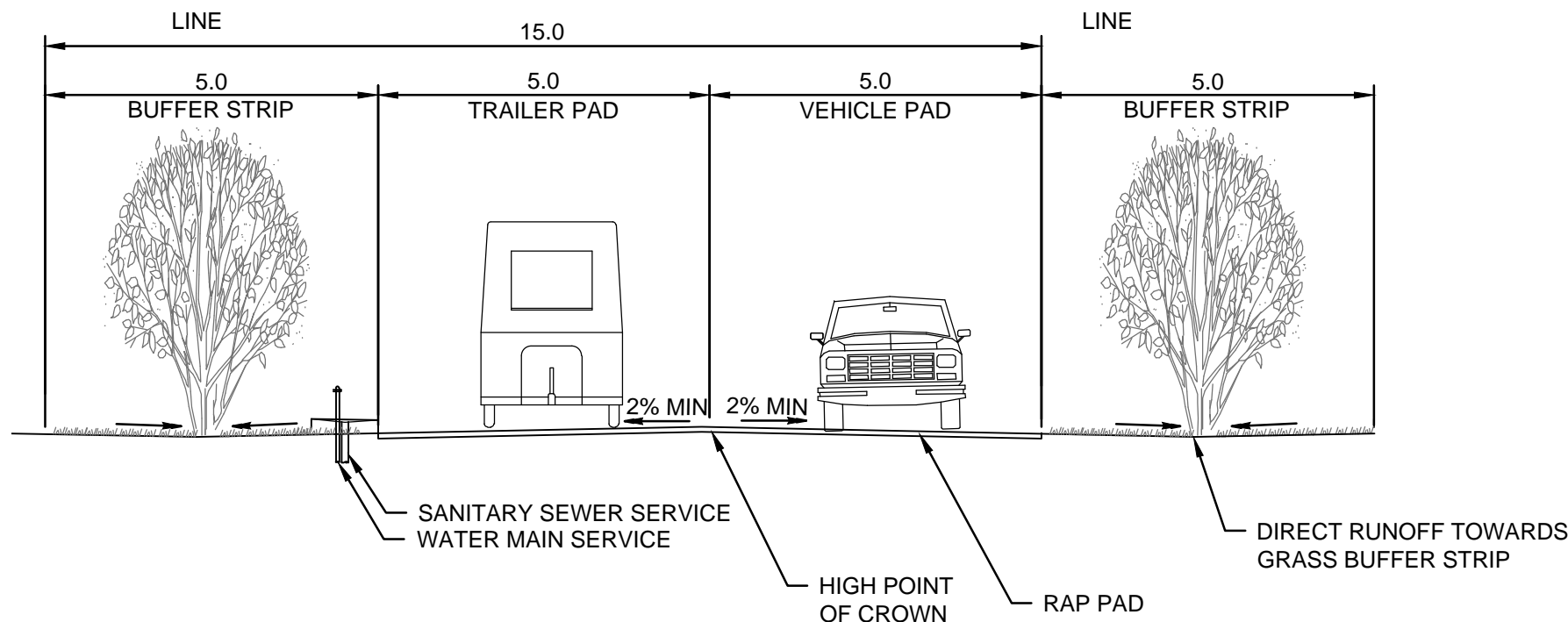
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Designed by/Conçeut par	Reviewed by/Révisé par	Scale/Echelle AS NOTED
PWOSC Project Manager/Administrateur des Projets PTSCC		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Part Responsible/Partie/Agent, Responsable SR	PWOSC Project Manager/Administrateur des Projets PTSCC	
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./No. de la feuille
Drawing Reference No./No. de référence du dessin		22 of 47



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AECOM CANADA LTD.
Signature *[Signature]*
Date *June 26, 2013*
PERMIT NUMBER: P10450
The Association of Professional
Engineers and Geoscientists of Alberta

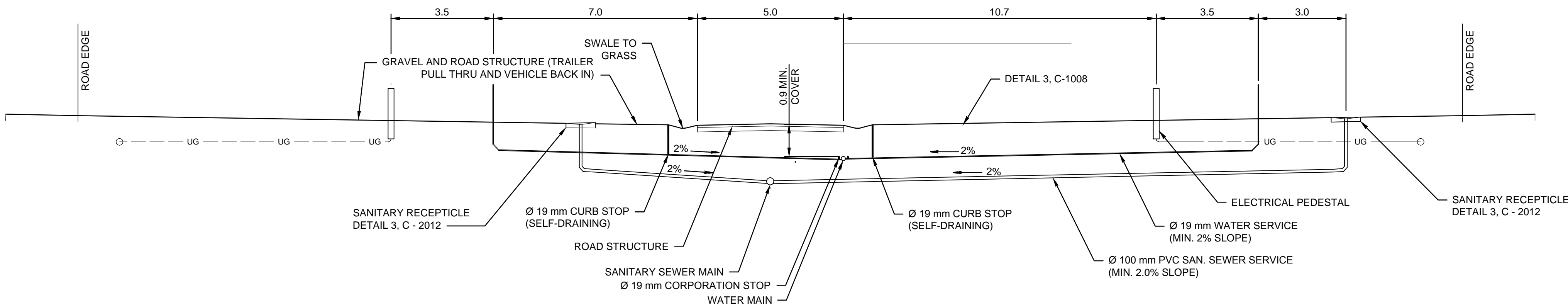
NOT FOR CONSTRUCTION

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COMPANY, DEPARTMENT OR PERSON(S) OF ITS
INTENTION TO CARRY OUT ITS OPERATIONS.



A | TYPICAL LOT CROSS SECTION

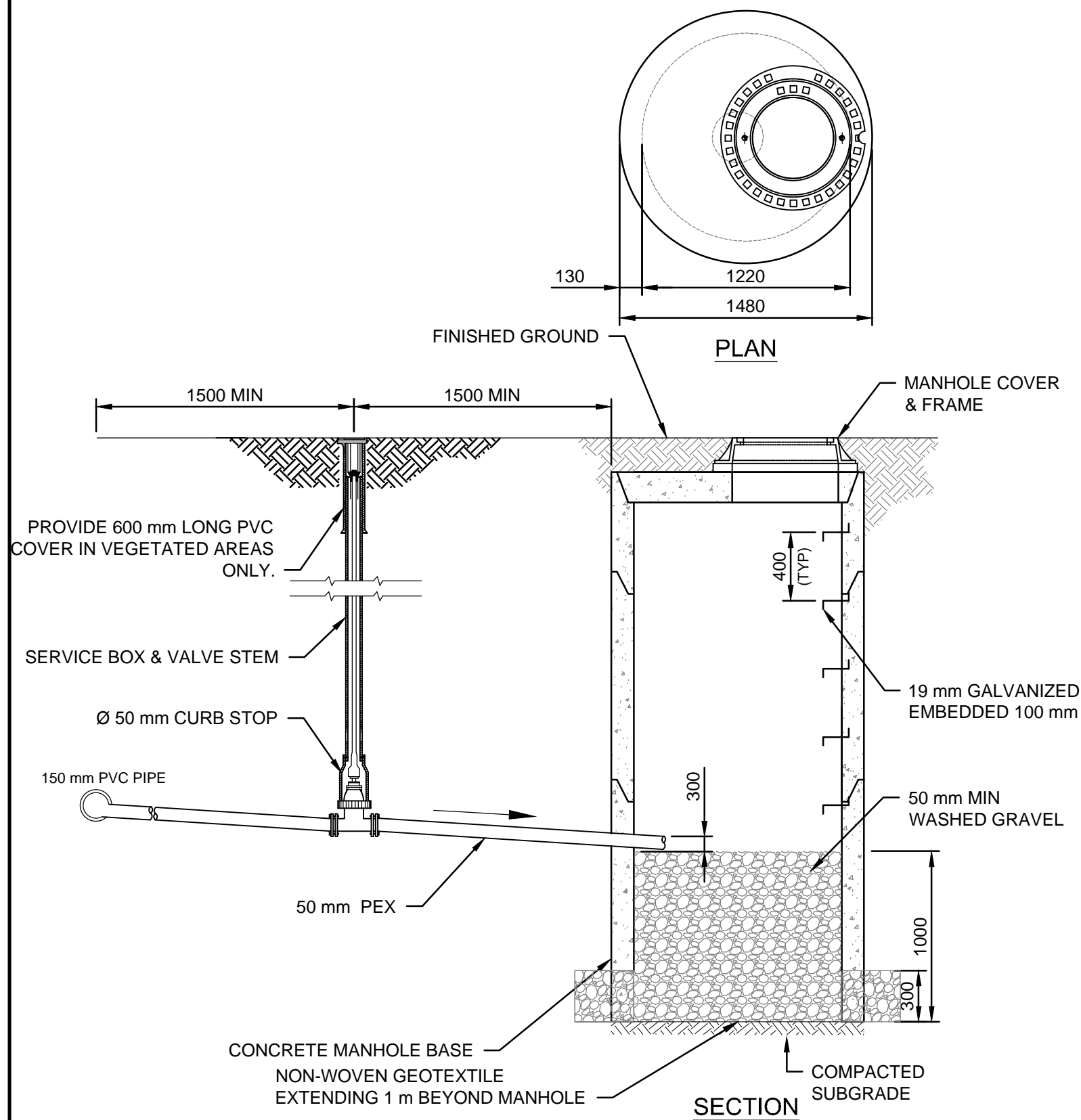
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B | TYPICAL LOT CROSS SECTION

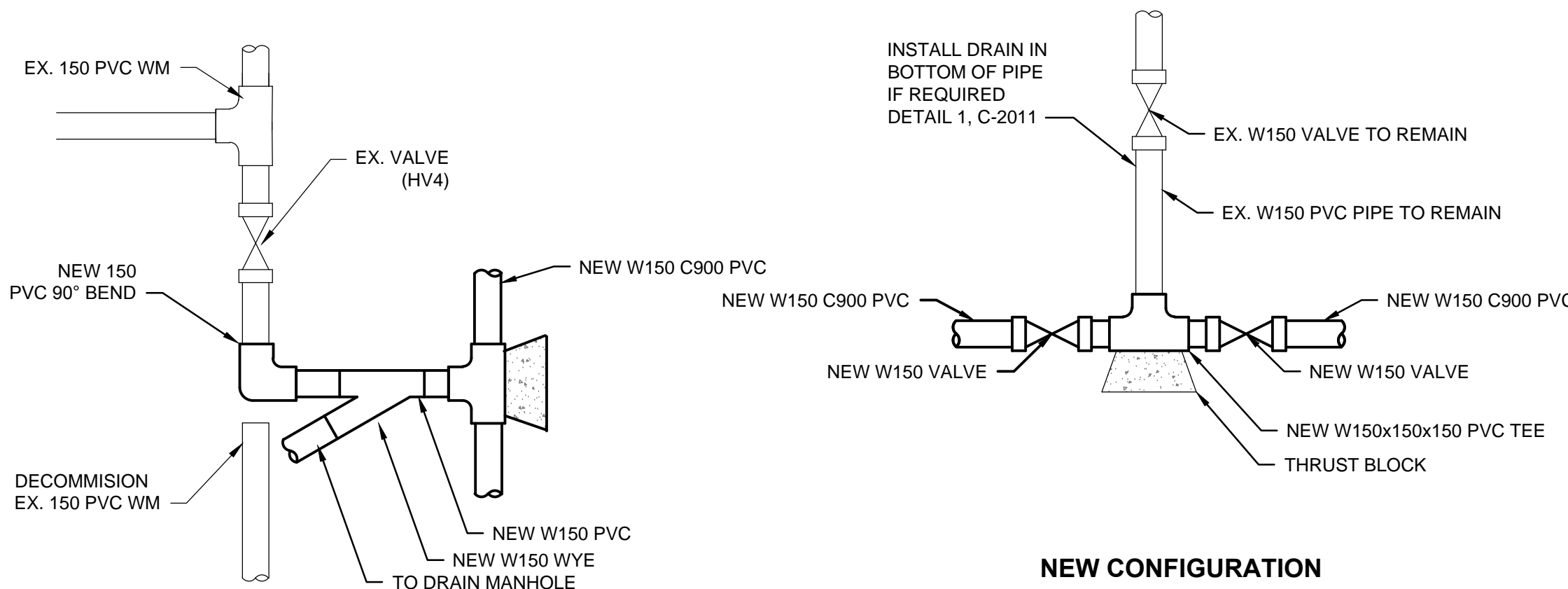
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NOTE:
WATER SERVICE LINES TO BE SLOPED TO ENSURE DRAINAGE
THROUGH THE CURB STOPS



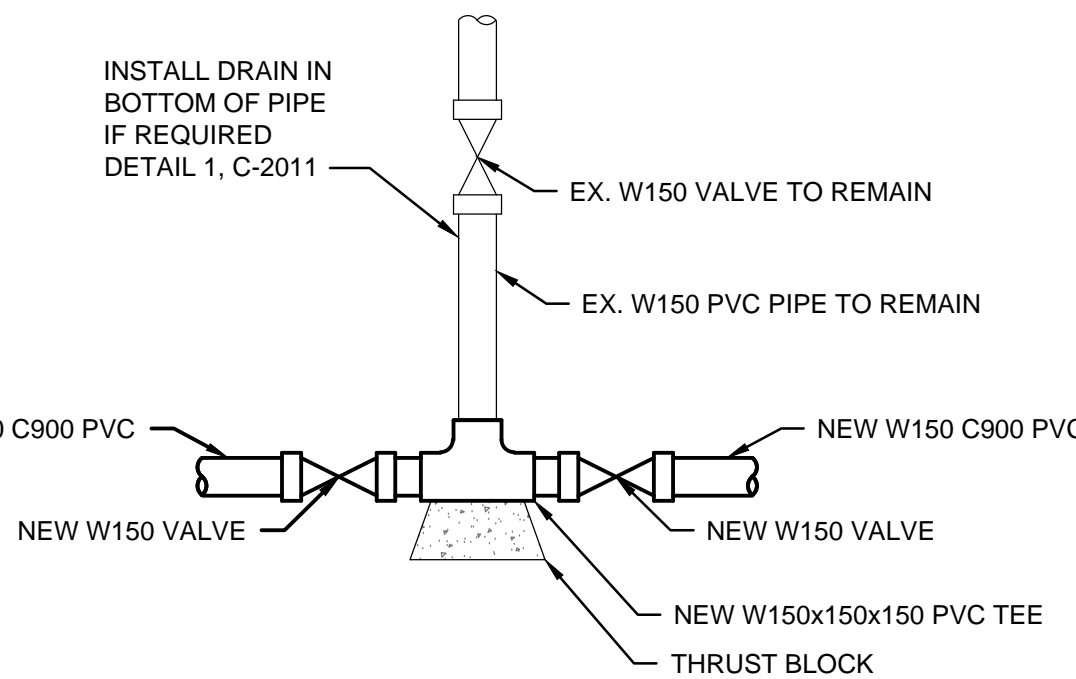
1 | DRAIN MANHOLE

N.T.S



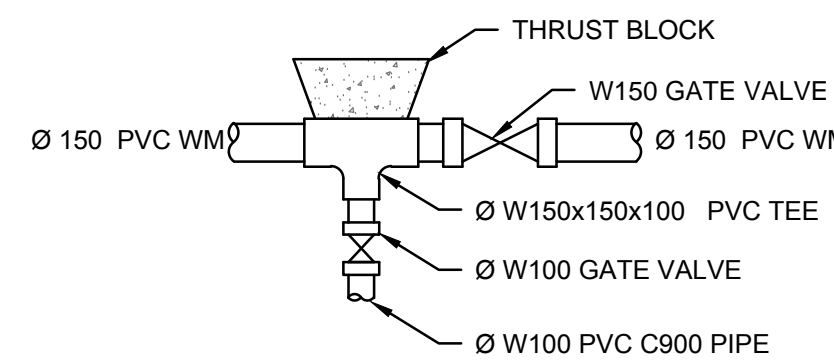
2 | LOOP A - NE WATER CONNECTION

N.T.S



3 | LOOP B - NW WATER CONNECTION

N.T.S



4 | TYPICAL WATER MAIN TEE REDUCTION

N.T.S

D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-11-06	ISSUED FOR 60% REVIEW	MG	BR

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
A		detail number numéro de détail		
B		source drawing no. de dessin no.		
C		detail on drawing no. détail sur dessin no.		

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Scellé de l'ingénieur
AECOM	



Client/client Parks Canada Agence	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**CAMPSITE LOT
SECTION AND DETAILS**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Concept par BR	Reviewed by/Revise par AS NOTED	Scale/Echelle AS NOTED
PWSSC Project Manager/Administrateur de Projet TPSGC		
Client Acceptance/Acceptation du client		
PWSSC Project Manager/Administrateur de Projet PWSSC		
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille 23 of 47
Drawing Reference No./No. de référence du dessin C-2011		



D	17-06-23	ISSUED FOR TENDER	DG	BR
C	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
B	16-01-18	ISSUED FOR 90% REVIEW	MG	BR
A	15-11-06	ISSUED FOR 60% REVIEW	MG	BR
No.	Date/Date	Description/Description	Drawn by par	Approved Approve

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
	

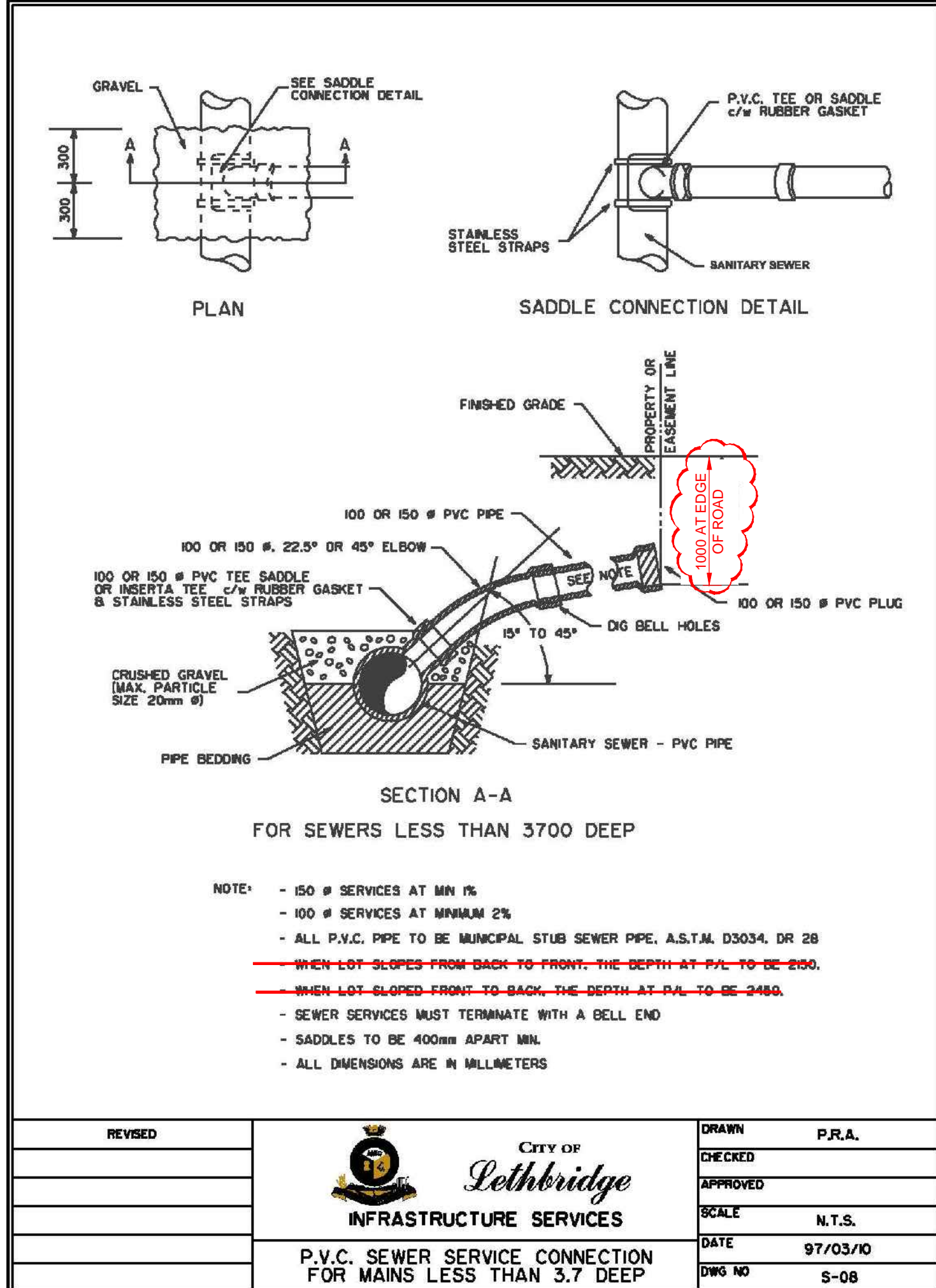
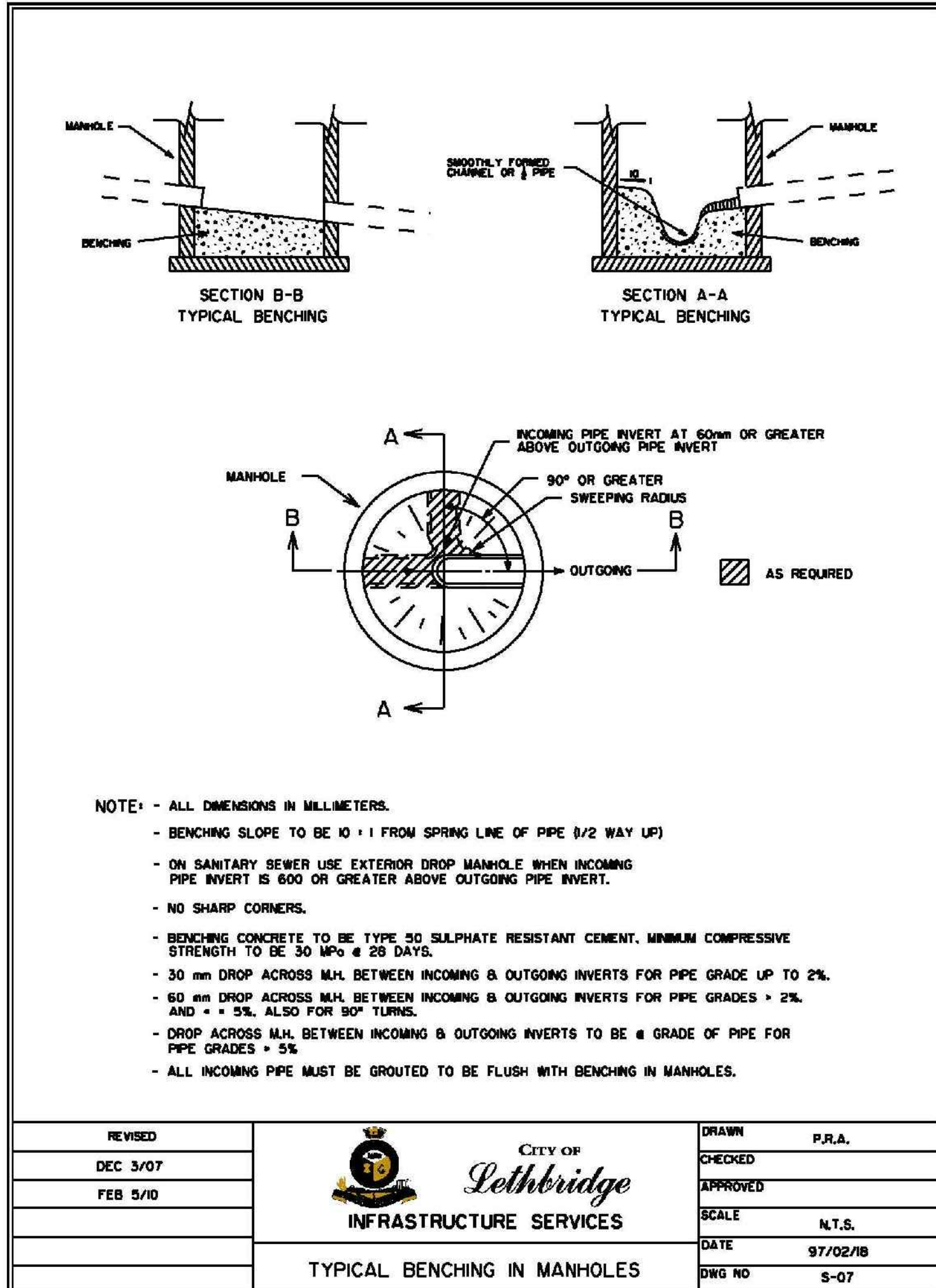
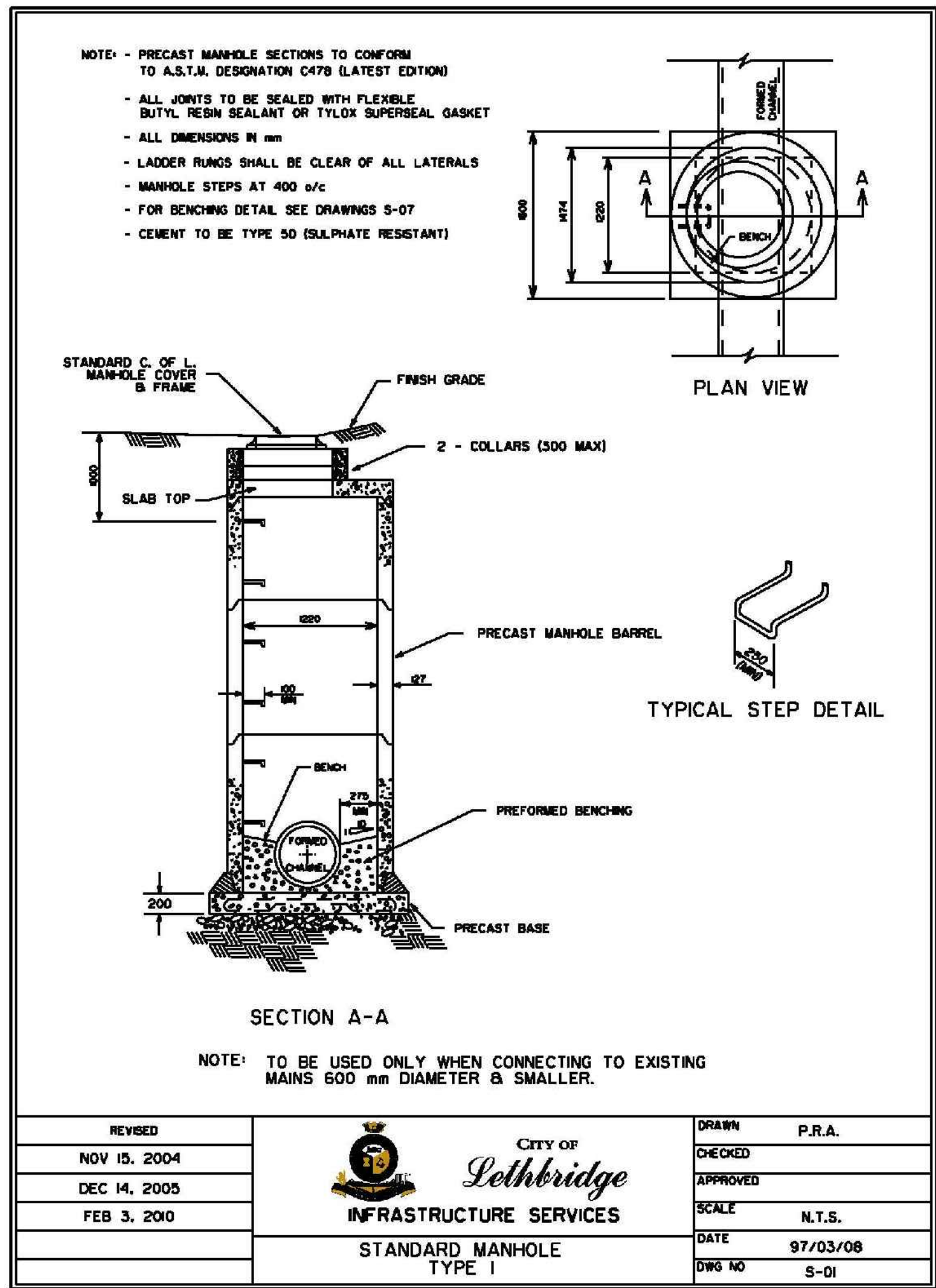
Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Title du projet

WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

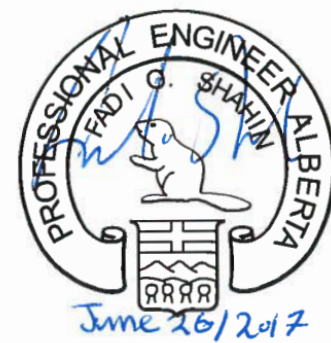
Drawing title/Titre du dessin

**CAMPSITE SERVICING
DETAILS**



LEGEND

MODIFICATION TO STANDARD DETAIL



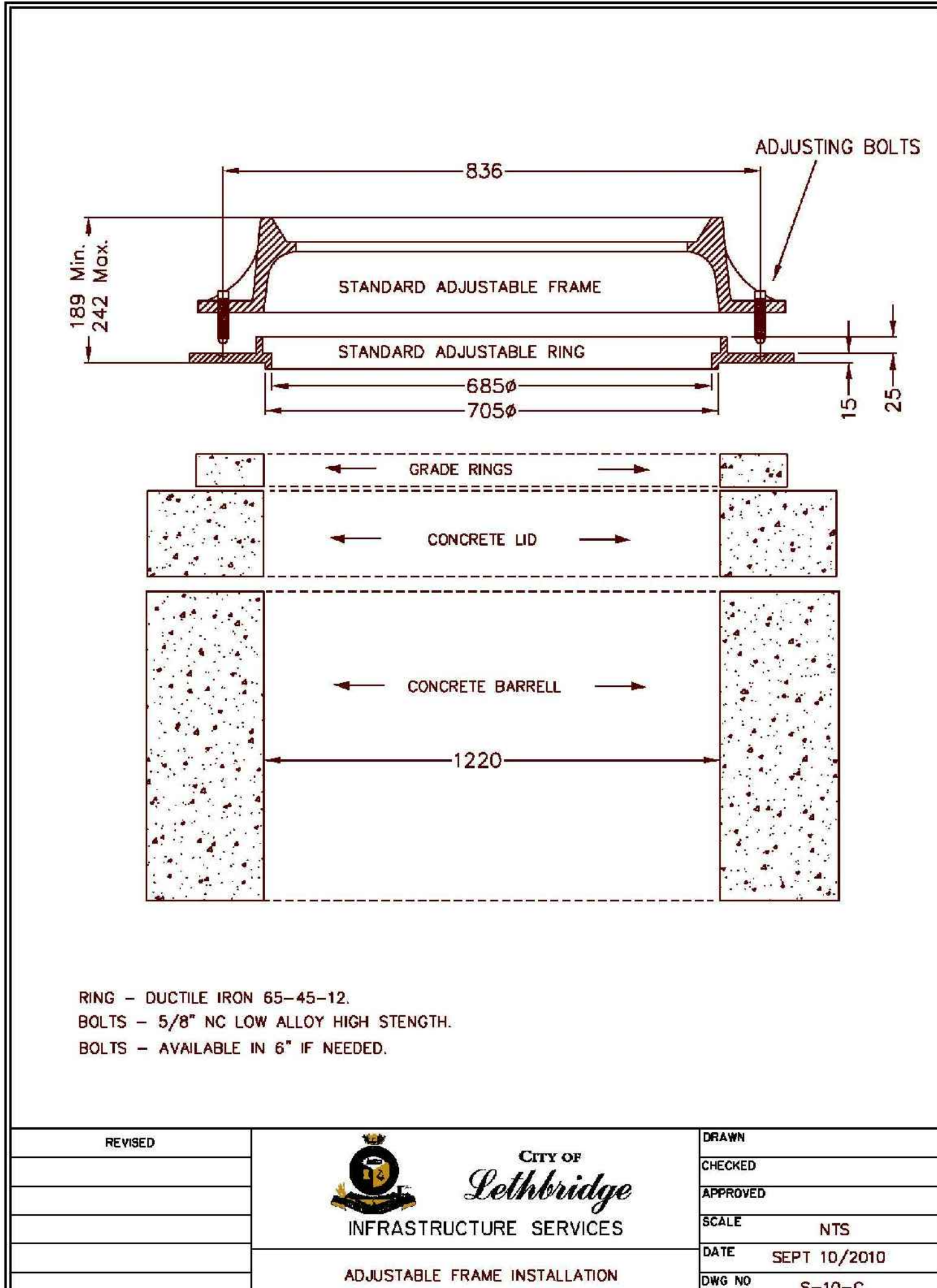
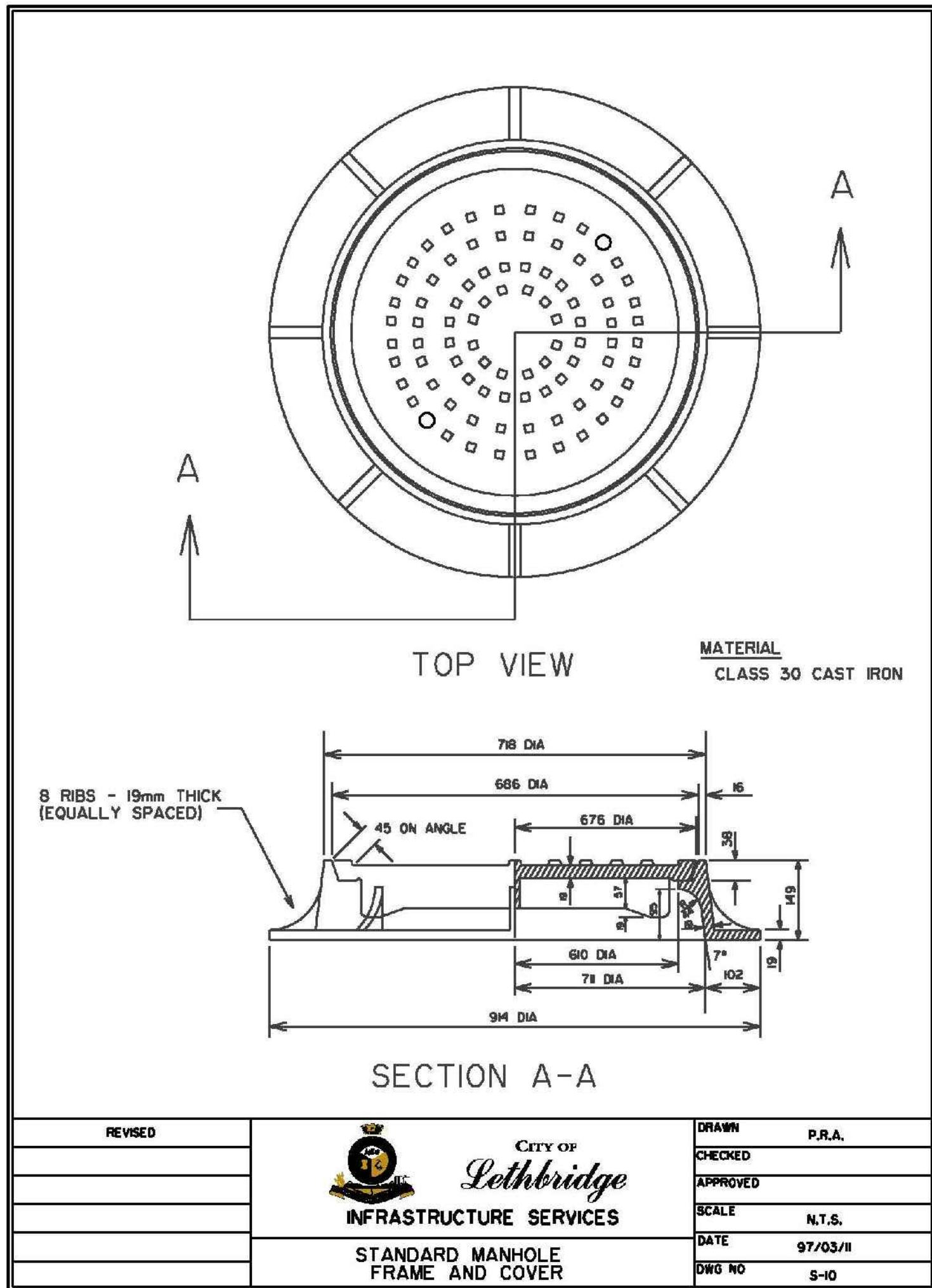
PERMIT TO PRACTICE
AECOM CANADA LTD.

Signature: *Shahin*

Date: *June 26, 2012*

PERMIT NUMBER: P10450

The Association of Professional Engineers and Geoscientists of Alberta

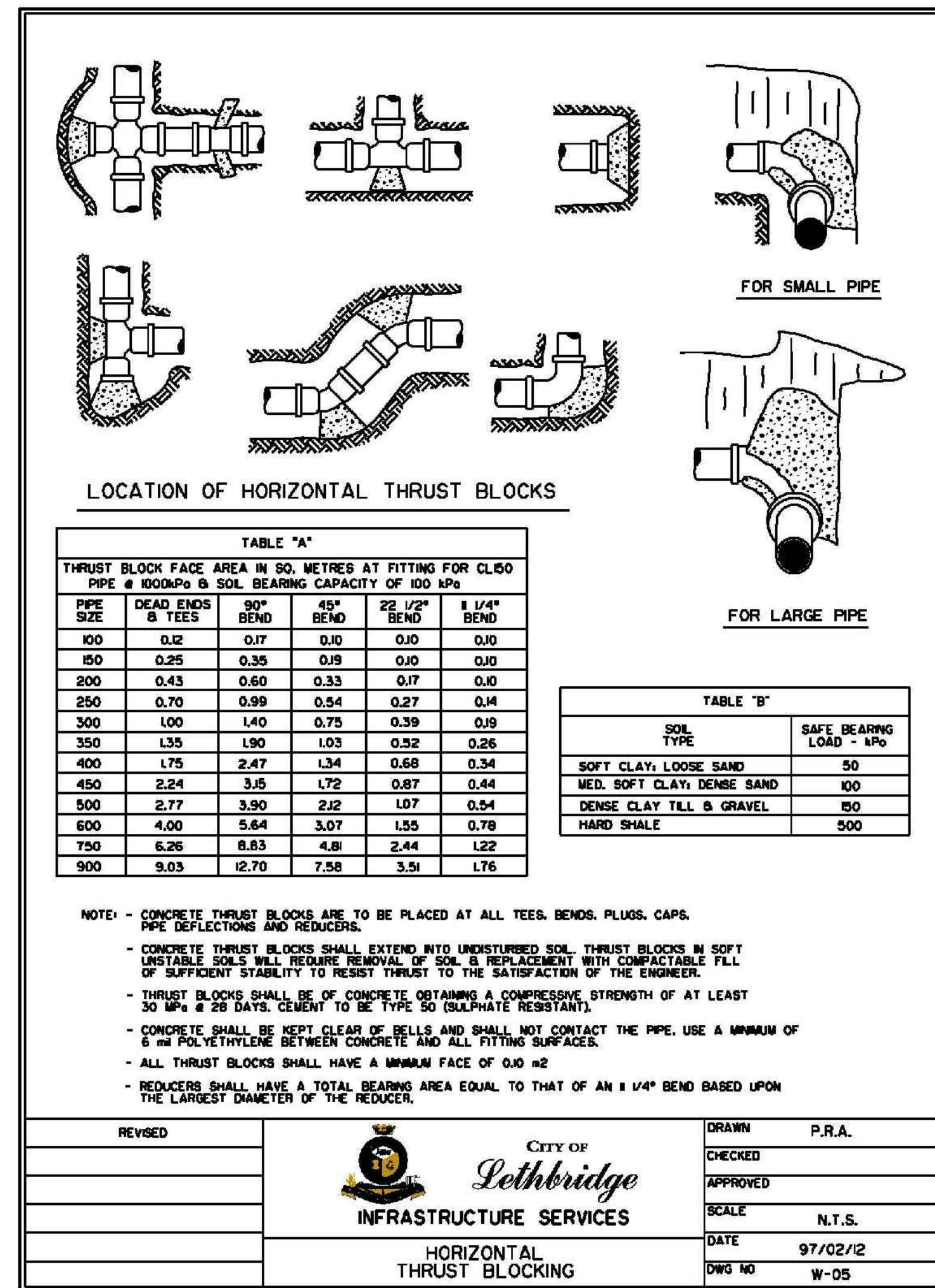
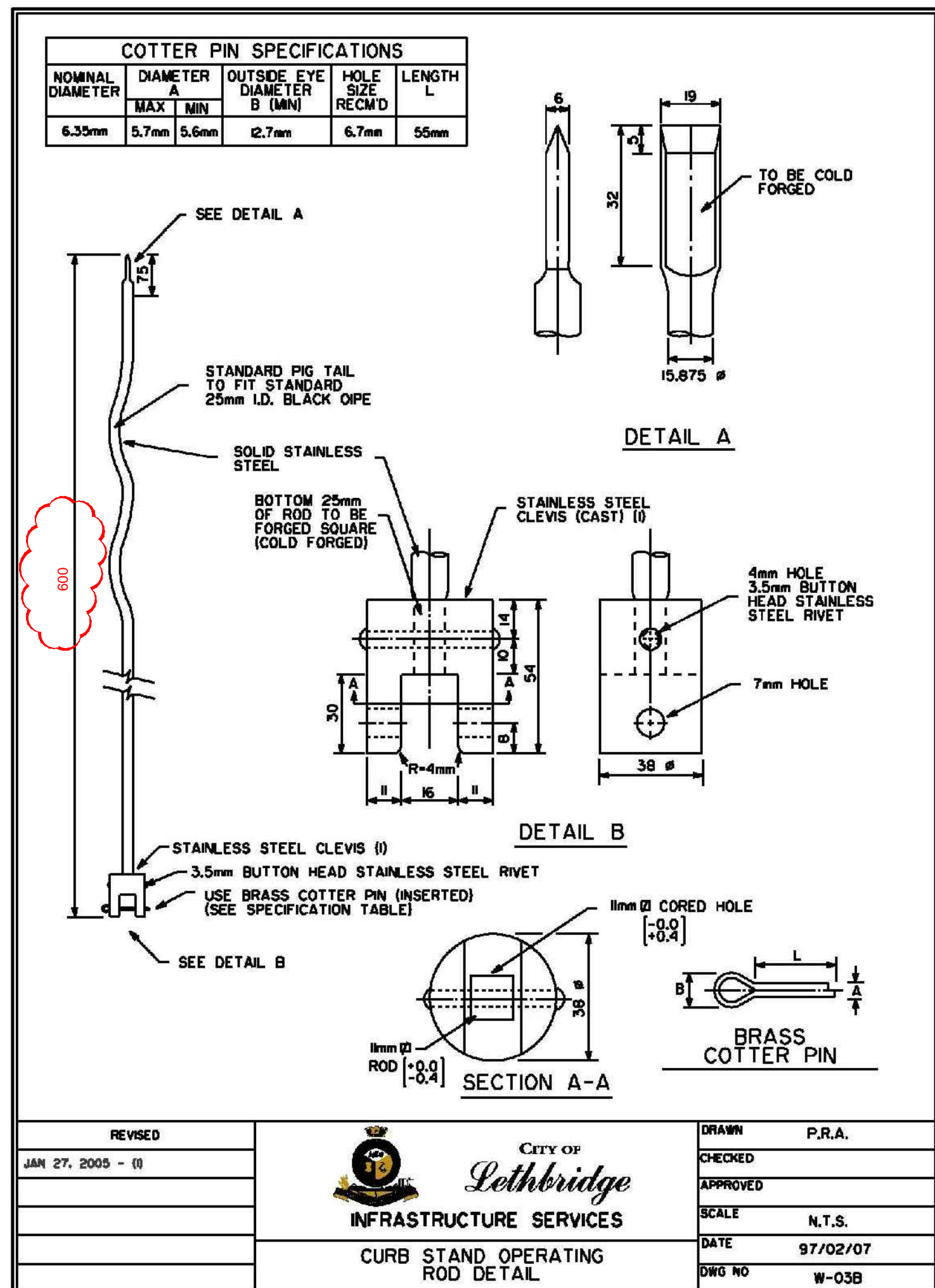
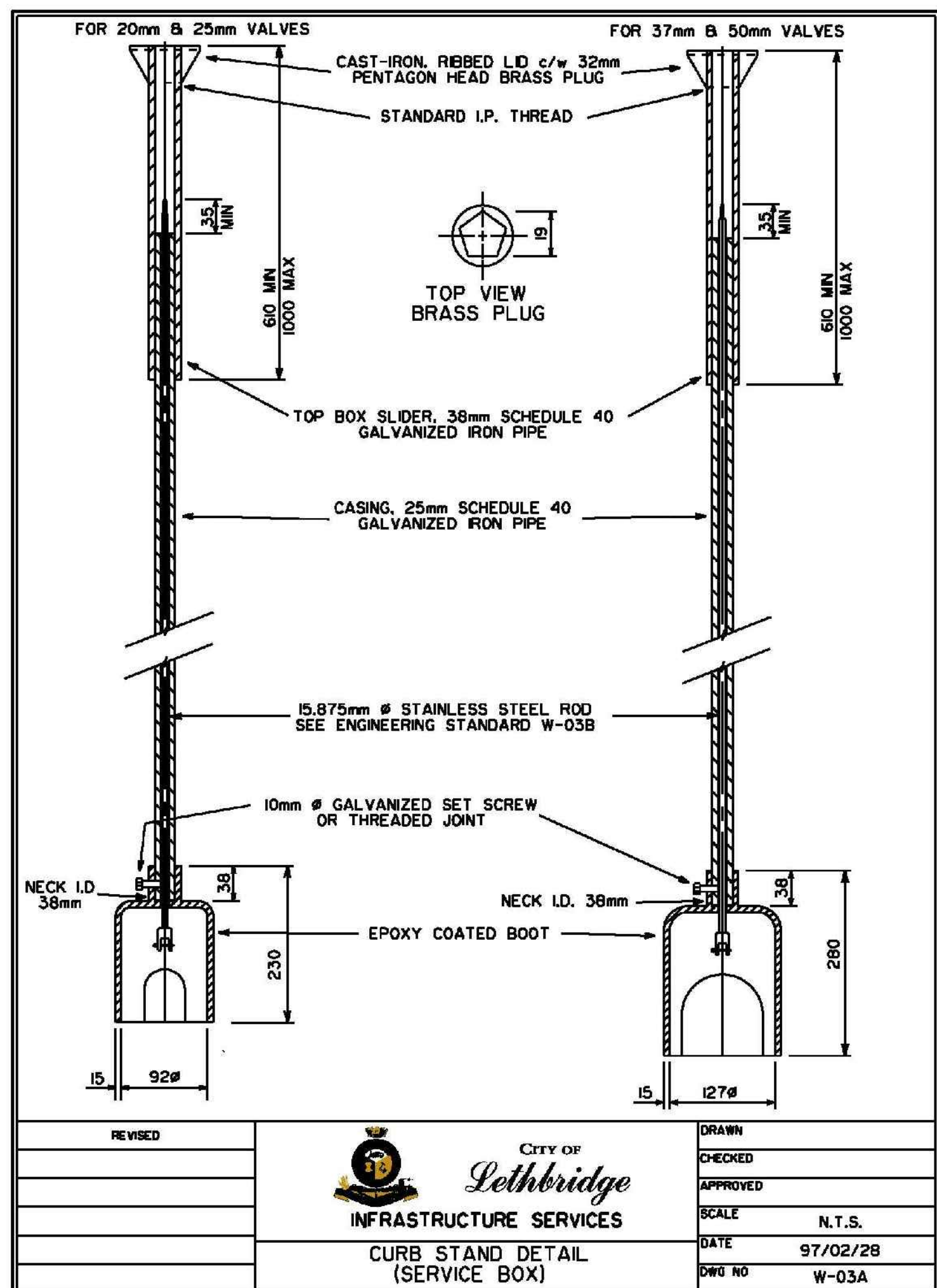
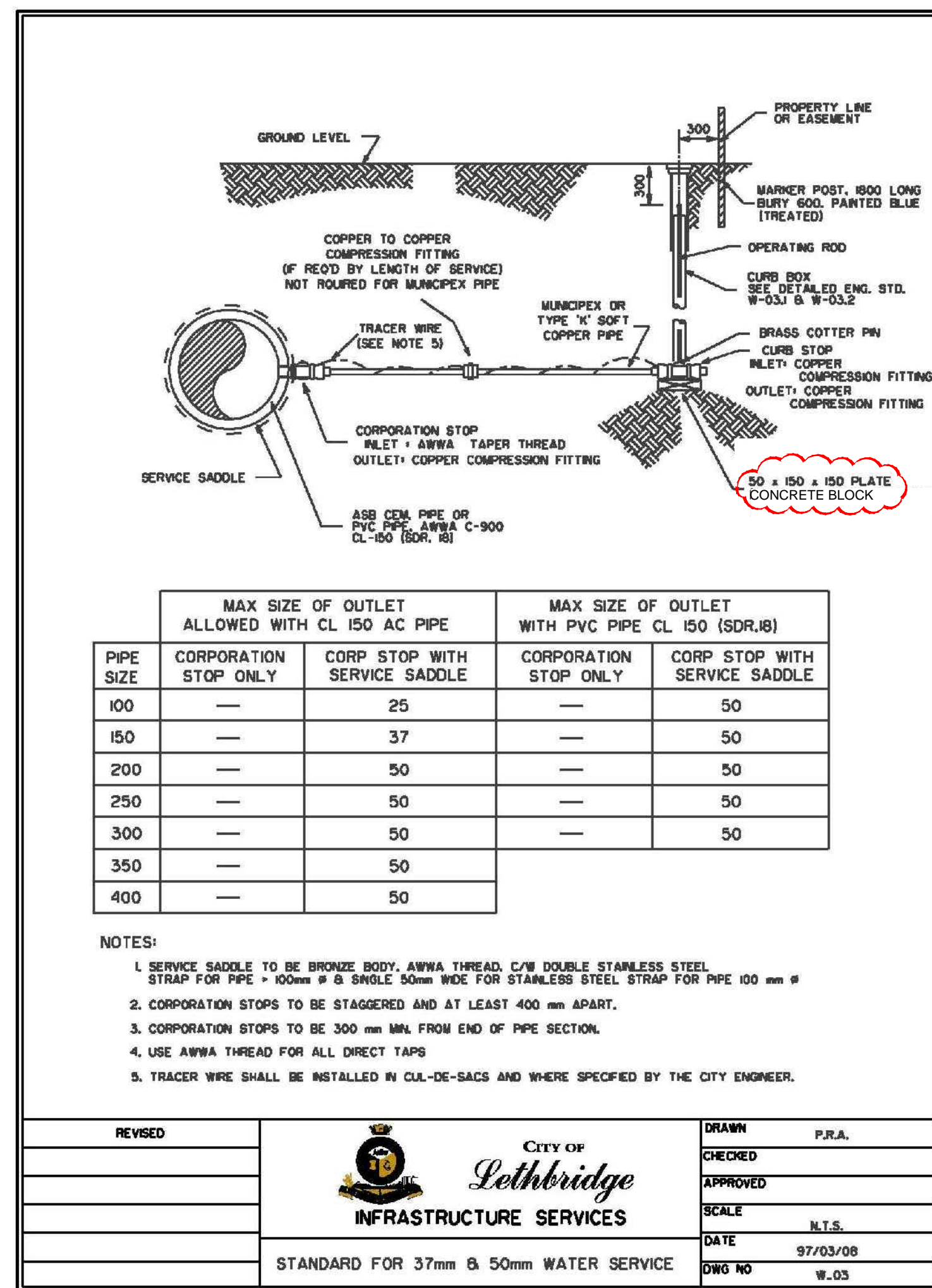
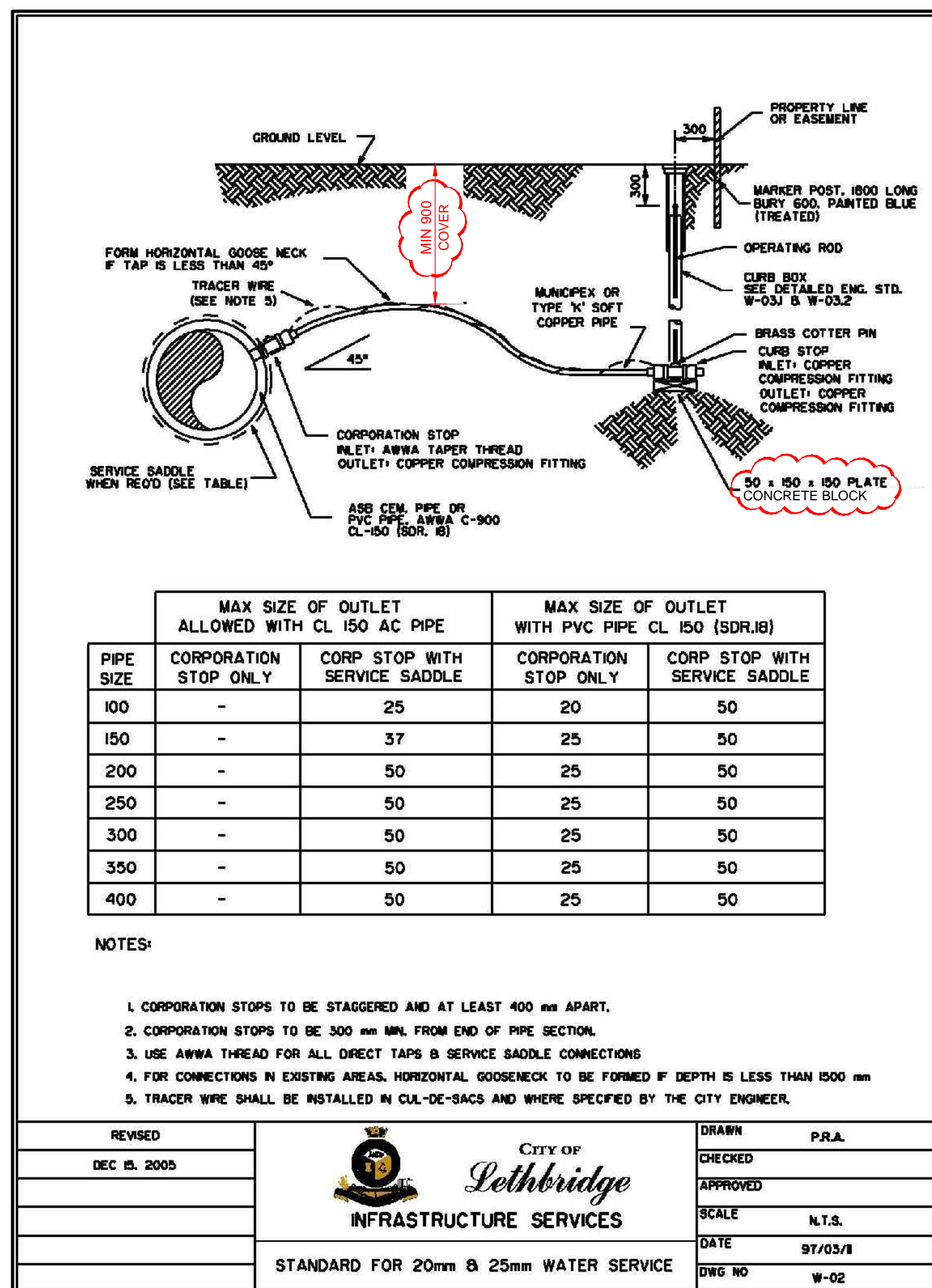
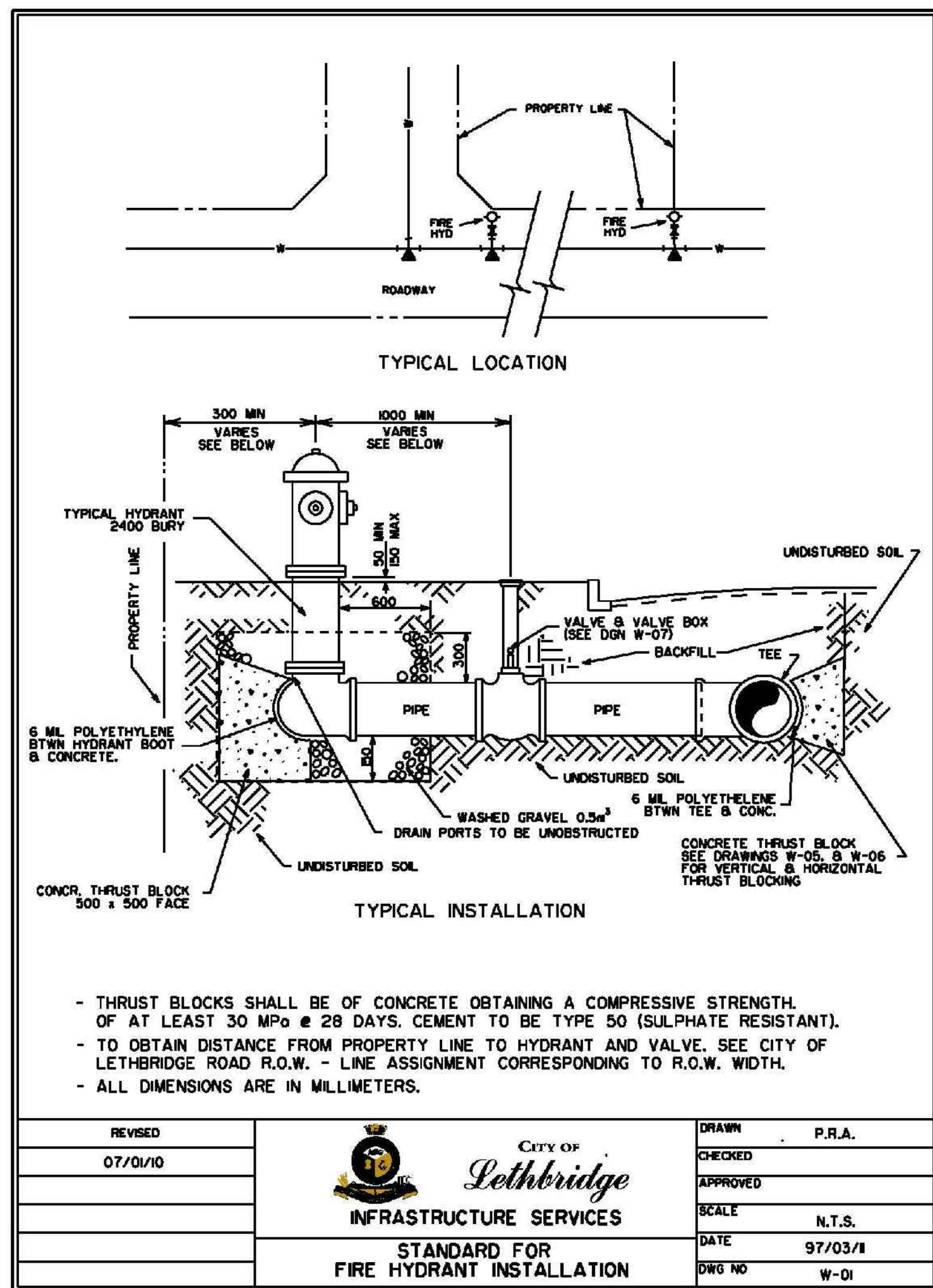


NOT FOR CONSTRUCTION

NOTICE:
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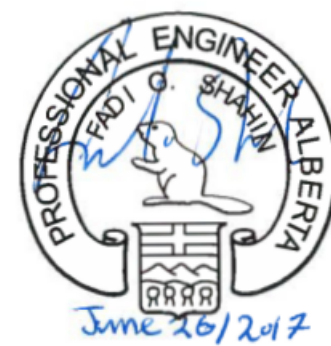
THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

Revision / Revision			
<div><div>A</div><div>C</div></div>		A detail number numéro de détail	
<div><div>B</div></div>		B source drawing no. de dessin no.	
<div><div>C</div></div>		C detail on drawing no. détail sur dessin no.	
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur	
<div>AECOM</div>			
Canada			
Client/client		L'Agence Parcs Canada	
<div><div></div><div></div></div>		Canada	
Western and Northern Region		Ouest et Nord du Canada	
Project title/Titre du projet			
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943			
Drawing title/Titre du dessin			
WATER AND SEWER DETAILS			
Surveyed by/Arpenté par		Drawn by/Dessiné par	
AECOM		MG	
Date/Date		2015-09-07	
Designed by/Conçu par		Reviewed by/Revisé par	
BR		Scale/Echelle	
AS NOTED			
PWSC Project Manager/Administrateur de Projets TPSGC			
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet		Asset No./No. du bien	
60432200		-	
Sheet No./No. de la feuille		25 of 47	
Drawing Reference No./No. de référence du dessin			
C-2013			



LEGEND

MODIFICATION TO STANDARD DETAIL



PERMIT TO PRACTICE
AECOM CANADA LTD.

Signature: *Shabir*
Date: *June 26, 2012*
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

NOT FOR CONSTRUCTION

NOTICE:
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No.	Date/Date	Description/Description	Drawn by	Approved
C	17-08-20	ISSUED FOR TENDER	DG	BR
B	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
A	16-01-18	ISSUED FOR 90% REVIEW	MG	BR

Revision / Revision	Detail number	Source drawing no.	Detail on drawing no.
A			
B			
C			

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scellé de l'ingénieur

AECOM

Canada

Client/Client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project Title/Titre du projet

**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing Title/Titre du dessin

**WATER AND SEWER
DETAILS**

Surveyed by/Arpenté par
AECOM

Drawn by/Dessiné par
WG

Date/Date
2015-09-07

Designed by/Conçu par
BR

Reviewed by/Revisé par
AS NOTED

Scale/Echelle
AS NOTED

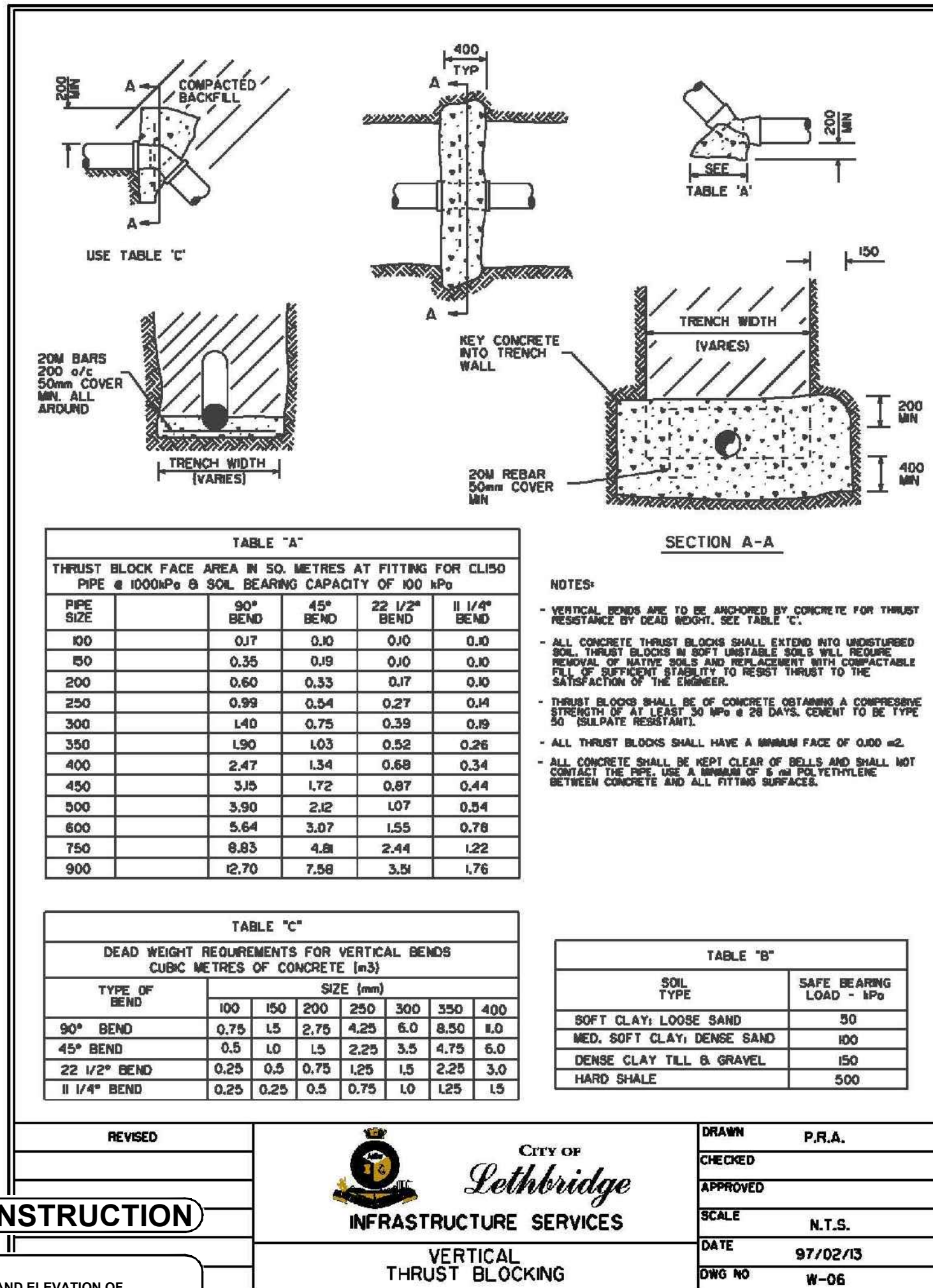
Project Manager/Manager de projet
PWSC

Client Acceptance/acceptation du client
Approved by/approuvé par

Project No./No. du projet
60432200

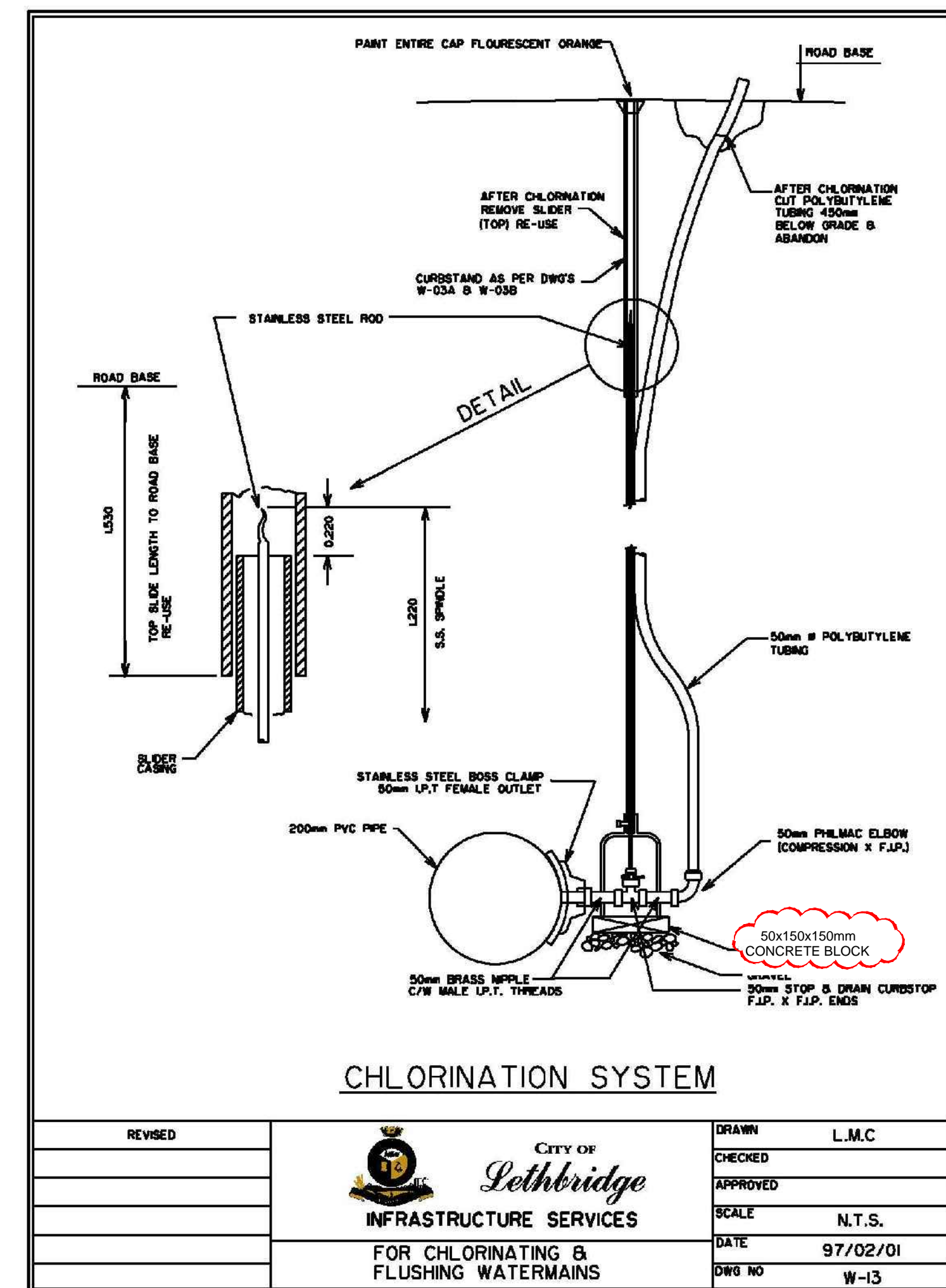
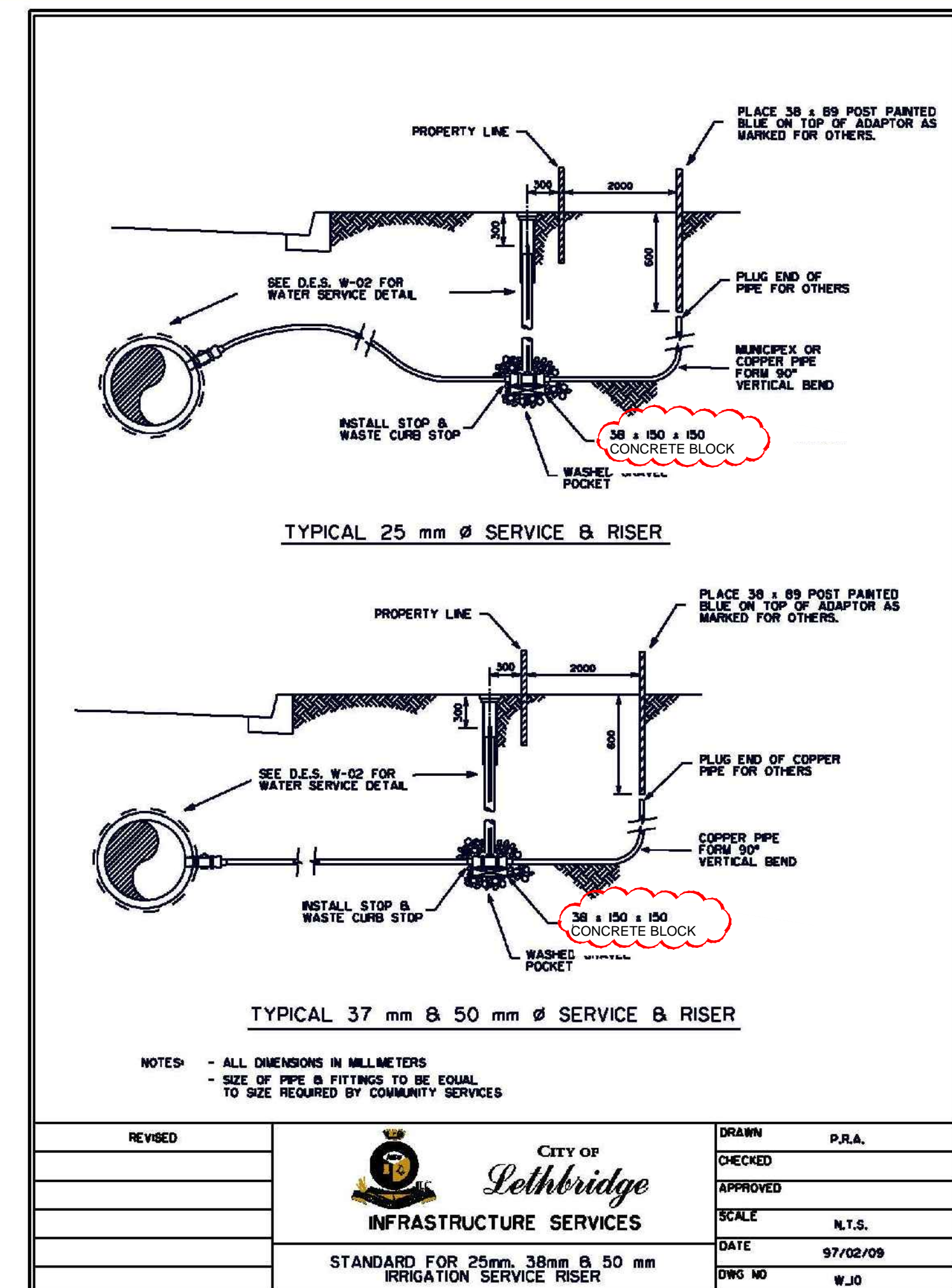
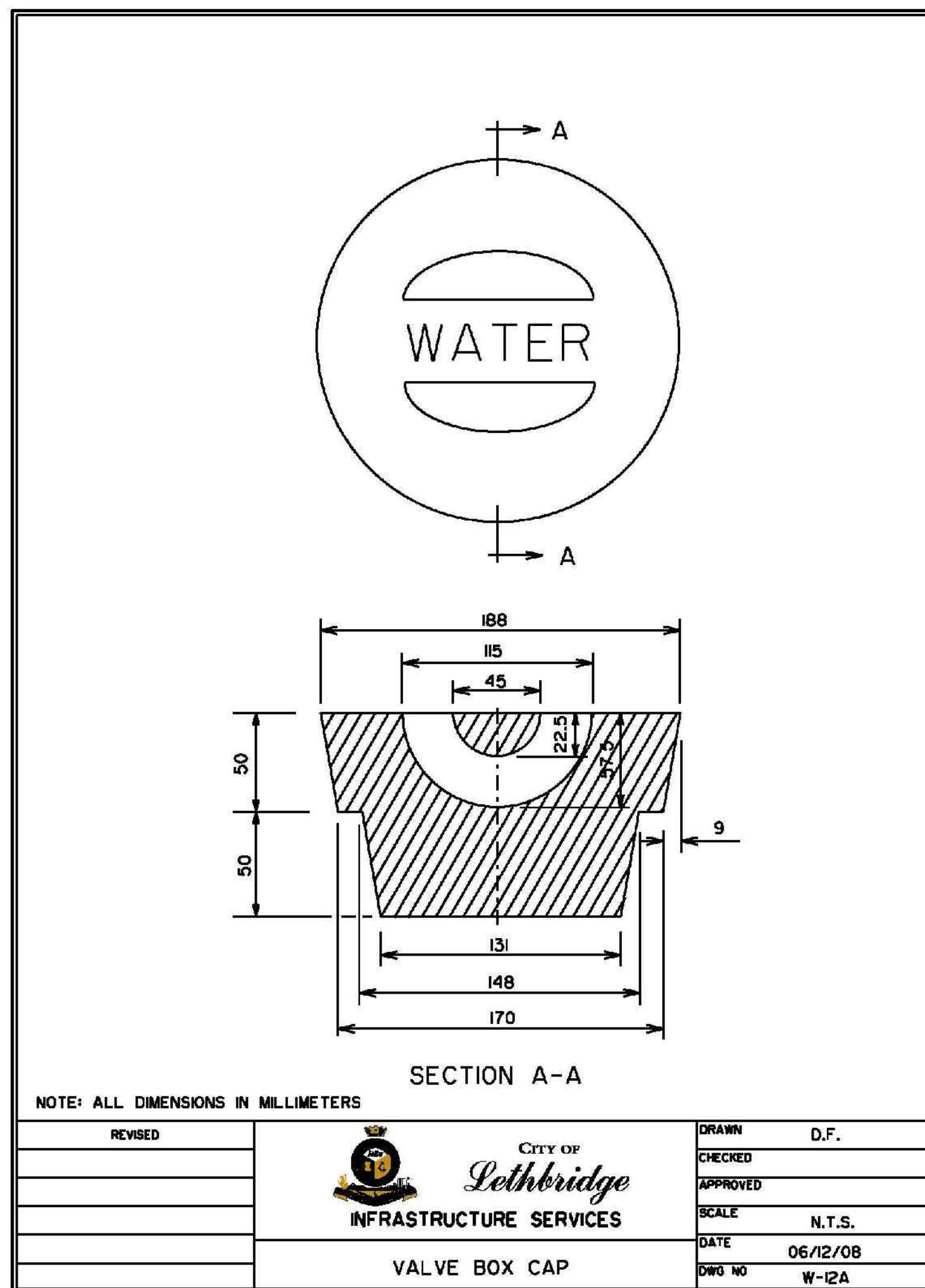
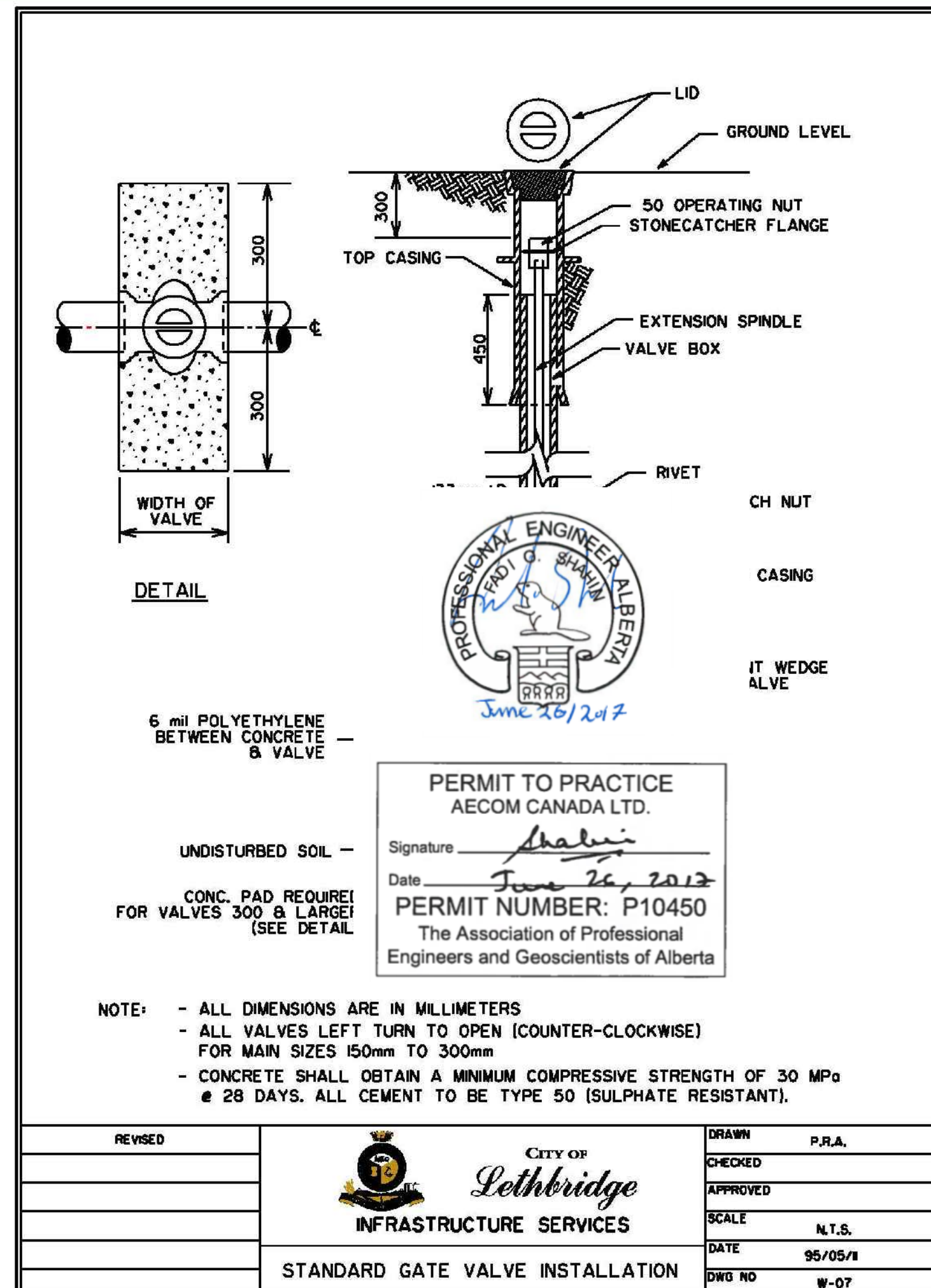
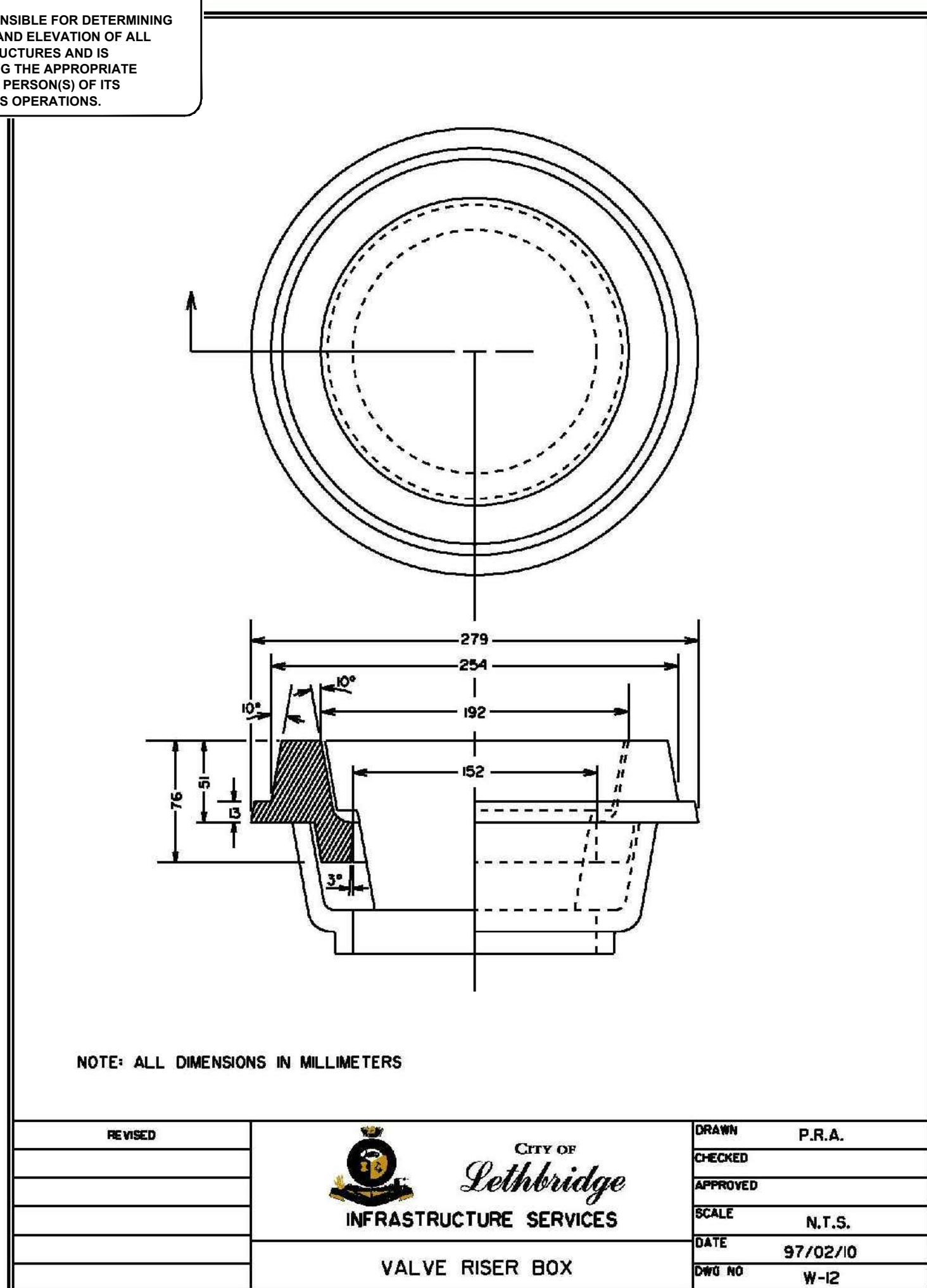
Sheet No./No. de la feuille
26 of 47

Drawing Reference No./No. de référence du dessin
C-2014



NOT FOR CONSTRUCTION

NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA LTD.
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LEGEND

MODIFICATION TO STANDARD DETAIL



PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: []
Date: June 26, 2012
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by	Approved
C	17-08-20	ISSUED FOR TENDER	DG	BR
B	17-03-27	ISSUED FOR 95% REVIEW	KB	BR
A	16-01-18	ISSUED FOR 90% REVIEW	MG	BR

Revision / Revision	Revision / Revision
A detail number	A
B source drawing no.	B
C detail on drawing no.	C

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scellé de l'ingénieur

AECOM

Client/Client	Client/Client
Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

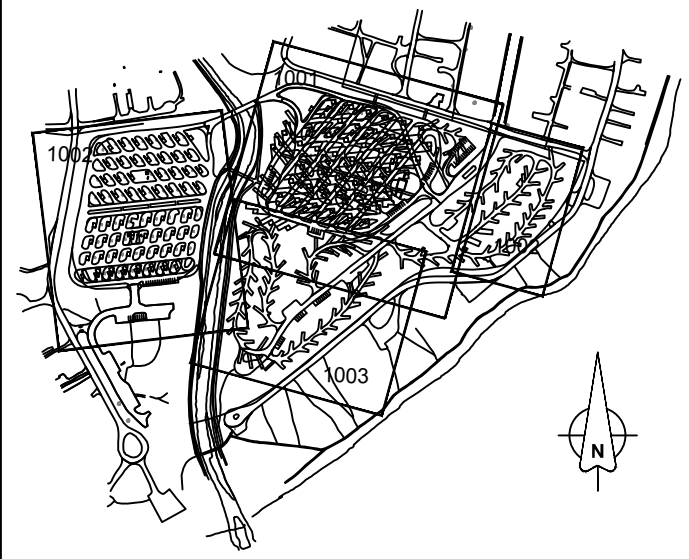
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943

CAMP SITE LOT DETAILS

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par MG	Date/Date 2015-09-07
Designed by/Concepté par BR	Reviewed by/Revisé par ---	Scale/Echelle AS NOTED
PWSSC Project Manager/Administrateur de Projet TPSSC		
Client Acceptance/acceptation du client		
Fork Responsible Officer/Agent Responsable		
Project No./No. du projet 60432200	Asset No./No. de bien ---	Sheet No./No. de la feuille 27 of 47
Drawing Reference No./No. de référence du dessin C-2015		



KEY PLAN



LEGEND

- PROPOSED ROAD
- PROPOSED CABLE FENCING
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TREE CANOPY OUTLINE
- PROPOSED CONIFEROUS TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED SHRUBS
- SOD
- HYDROSEED
- CONCRETE PAD (SEE ENGINEERS DRAWINGS)
- TRASH/RECYCLING CONCRETE PAD

PRELIMINARY
NOT FOR CONSTRUCTION
Date: 2016/01/18

D	2017/06/24	ISSUED FOR TENDER	JG	GK
	2017/03/22	ISSUED FOR 95% REVIEW	JG	GK
	2017/03/04	ISSUED FOR 95% REVIEW	JA	GK
	2017/02/15	ISSUED FOR 95% REVIEW	JA	GK
C	2017/01/24	ISSUED FOR 95% REVIEW	JA	GK
No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé

A	detail number numéro de détail	A
B	source drawing no. de dessin no.	B/C
C	detail on drawing no. détail sur dessin no.	

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

Stamp
Sceau de l'ingénieur
The Alberta
Professional Engineers
Association
Geoffrey Katz

Canada

Client/client
 Parks Canada
Agency
L'Agence Parcs
Canada
Western and
Northern Region
Ouest et Nord
du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**PLANTING & LANDSCAPE
LAYOUT PLAN
LOOP A, C, & G**

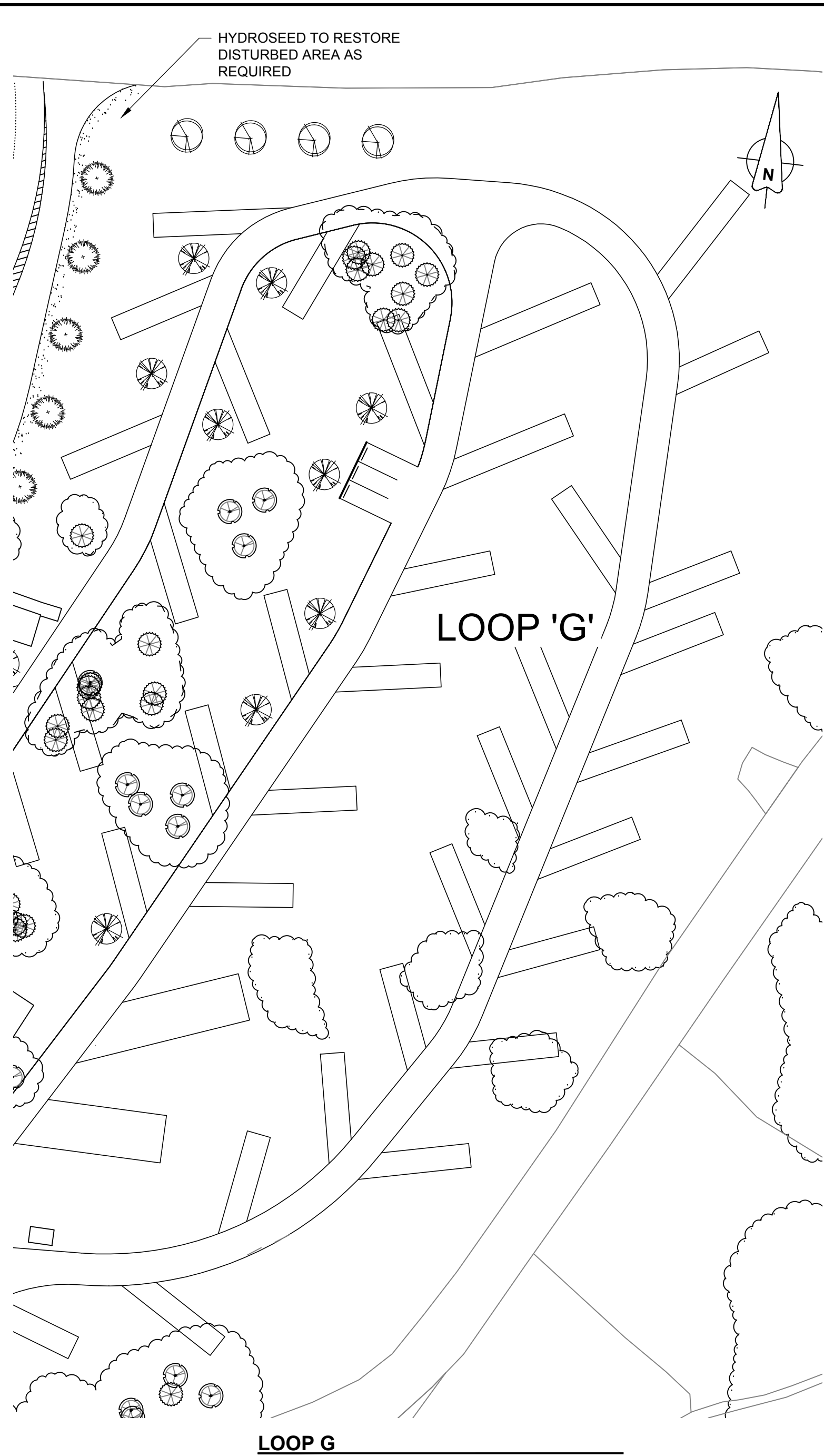
Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par JA	Date/Date 2015-11-06
Designed by/Concepté par GK	Reviewed by/Revisé par GK	Scale/Echelle 1:750

FWOSC Project Manager/Administrateur de Projets TFSCC

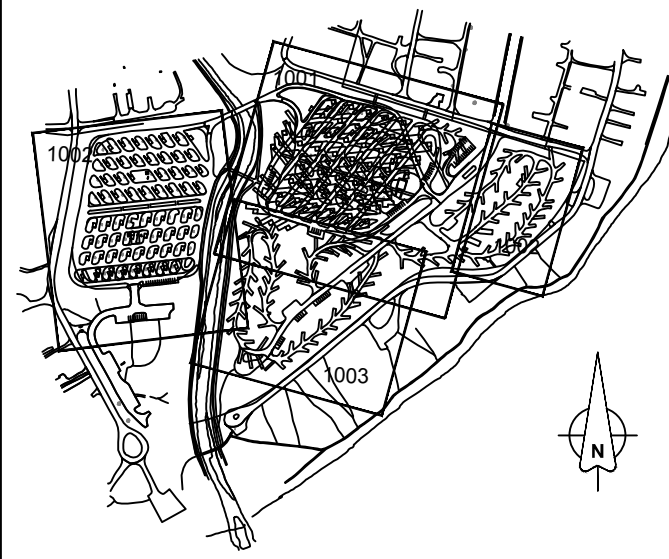
Client Acceptance/Acceptation du client
Approved by/Approuvé par

Park Responsible Officer/Agent Responsable	FWOSC Project Manager/Administrateur de Projets TFSCC
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
		28 of 47
Drawing Reference No./No. de référence du dessin		
L-1001		



KEY PLAN



LEGEND

- PROPOSED ROAD
- PROPOSED CABLE FENCING
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TREE CANOPY OUTLINE
- PROPOSED CONIFEROUS TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED SHRUBS
- SOD
- HYDROSEED
- CONCRETE PAD (SEE ENGINEERS DRAWINGS)
- TRASH/RECYCLING CONCRETE PAD

PRELIMINARY
NOT FOR CONSTRUCTION
Date: 2016/01/18

B	2017/06/20	ISSUED FOR TENDER	JG	GK
	2017/03/22	ISSUED FOR 95% REVIEW	JG	GK
	2017/03/04	ISSUED FOR 95% REVIEW	JA	GK
	2017/02/15	ISSUED FOR 95% REVIEW	JA	GK
A	2017/01/20	ISSUED FOR 95% REVIEW	JA	GK
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

A	A
C	B/C

Consultant's Name
Nom de l'expert-conseil

AECOM

Stamp
Sceau de l'ingénieur

The Alberta
Professional Engineers
Association
Geoffrey Kalz

Canada

Client/client
Parks Canada
Agency
L'Agence Parcs
Canada
Western and
Northern Region
Ouest et Nord
du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**PLANTING & LANDSCAPE
LAYOUT PLAN
LOOP B & G**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par JA	Date/Date 2015-11-06
Designed by/Concept par GK	Reviewed by/Revisé par GK	Scale/Echelle 1:750

FWSC Project Manager/Administrateur de Projets TFSOC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Response Officer/Agent Responsable	FWSC Project Manager/Administrateur de Projets TFSOC

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
		29 of 47
Drawing Reference No./No. de référence du dessin		
L-1002		



PLANTING NOTES:

- CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO START OF ANY CONSTRUCTION. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DAMAGES AND LIABILITIES INCURRED BY DAMAGES TO SITE UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES OR SHRUBS EXISTING-TO-REMAIN WITHIN OR ADJACENT TO THE CONSTRUCTION AREAS.
- CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF ALL EXISTING CATCHBASINS, CATCHBASIN MANHOLES, MANHOLES, WATER VALVES, HYDRANTS, ETC. TO MATCH PROPOSED GRADES
- CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS
- CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEAN UP.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS
- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.
- ALL QUANTITIES ARE APPROXIMATE ONLY.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE PARKS CANADA AGENCY REPRESENTATIVE.
- ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE NOTED.
- CONTRACTOR TO OBTAIN APPROVAL FOR PLANT MATERIAL LAYOUT BY PARKS CANADA AGENCY REPRESENTATIVE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO HOLD ROUGH GRADES:
 - 200mm BELOW FINISHED GRADE FOR PLANTING BEDS
 - 100mm BELOW FINISHED GRADE FOR SEEDED AREAS
 - 100mm BELOW FINISHED GRADE FOR SODDED AREAS
- TOPSOIL DEPTHS:
 - 100mm FOR ALL SEEDD AREAS
 - 100mm FOR ALL SODDED TURF AREAS
 - 300mm FOR ALL PLANTING BEDS
 - PLANT BEDS TO BE RAISED 100mm ABOVE FINISHED GRADE
- UN-IRRIGATED PLANTING BEDS TO RECEIVE 100mm DEPTH OF WOOD CHIP MULCH. INDIVIDUAL TREES AND PLANTING BEDS IN IRRIGATED AREAS ARE NOT TO BE MULCHED.
- PLANT MATERIAL IS TO BE INSPECTED UPON ARRIVAL ON SITE BY PARKS CANADA AGENCY REPRESENTATIVE. DO NOT UNLOAD PLANT MATERIAL FROM TRUCK UNTIL INSPECTED.
- CONTRACTOR TO PROTECT ALL PLANT MATERIAL FROM RODENT, DEER, WILD FOWL, OR OTHER WILDLIFE DAMAGE FROM INSTALLATION TO FAC.
- NO SUBSTITUTIONS OF MATERIALS, PRODUCTS OR QUANTITIES WITHOUT PRIOR CONSENT OF PARKS CANADA AGENCY REPRESENTATIVE.
- CONTRACTOR TO REMOVE EXISTING ABANDONED UNDERGROUND UTILITIES WHERE THESE CONFLICT WITH TREE LOCATION INSTALLATION.
- ADJUST LOCATIONS OF TREES ADJACENT TO CAMERON CREEK IN THE FIELD TO ACCOMMODATE PEDESTRIAN PATHWAY.

SUMMARY TABLE

LOOP A	NUMBER OF DECIDUOUS TREES	61	LOOP E	NUMBER OF DECIDUOUS TREES	4
	NUMBER OF CONIFEROUS TREES	75		NUMBER OF CONIFEROUS TREES	6
	NUMBER OF SHRUBS	33			
LOOP B	NUMBER OF DECIDUOUS TREES	30	LOOP G	NUMBER OF DECIDUOUS TREES	4
	NUMBER OF CONIFEROUS TREES	42		NUMBER OF CONIFEROUS TREES	39
	NUMBER OF SHRUBS	35			
LOOP C	NUMBER OF DECIDUOUS TREES	0		TOTAL NUMBER OF DECIDUOUS TREES	105
	NUMBER OF CONIFEROUS TREES	24		TOTAL NUMBER OF CONIFEROUS TREES	201
LOOP D	NUMBER OF DECIDUOUS TREES	6			
	NUMBER OF CONIFEROUS TREES	15			

TOPSOIL NOTES

- RE-GRADE AREAS DAMAGED OR CHANGED DURING CONSTRUCTION OF OTHER WORK BEFORE TOPSOIL PLACEMENT. APPROVAL OF SUB GRADE BY PARKS CANADA AGENCY REPRESENTATIVE BEFORE TOPSOIL PLACEMENT IS REQUIRED.
- SALVAGE AND REUSE TOPSOIL ON SITE BEFORE ANY TOPSOIL IS IMPORTED. PARKS CANADA AGENCY REPRESENTATIVE MUST APPROVE SOURCE PRIOR TO BRINGING SOIL TO SITE. REFER TO SPECIFICATIONS.

SETBACKS

TREES

- 5.0m FROM MAJOR UNDERGROUND UTILITIES (MAIN GAS LINES, PRIMARY CABLES - 14,000 VOLTS AND CONCRETE DUCTS)
- 2.0m FROM UNDERGROUND UTILITIES (SEWER, WATER, GAS LINES, SECONDARY CABLES - 240 VOLTS AND TELEPHONE LINES)
- 2.0m FROM FIRE HYDRANTS
- 5.0m FROM STREET LIGHTS
- 1.0m FROM STREET LIGHT CABLES
- 5.0m FROM YIELD / STOP AND ALL REGULATORY SIGNS
- 10.0m FROM STREET CORNERS
- 4.5m FROM ALLEYS
- 2.0m FROM DRIVEWAYS
- 2.0m FROM BUS STOP
- PRIVATE PROPERTY
 - 10.0m - POPLARS
 - 5.0m - DECIDUOUS TREES
 - 2.5m - CONIFEROUS TREES
- OVERHEAD POWER
 - TREES 10.0m OR HIGHER - 10m OFFSET
 - TREES 10.0m OR LESS - 5m OFFSET
- 1.5m FROM DECIDUOUS TREES FROM PARK PATHWAYS
- 1.5m FOR CONIFEROUS TREES FROM PARK PATHWAYS

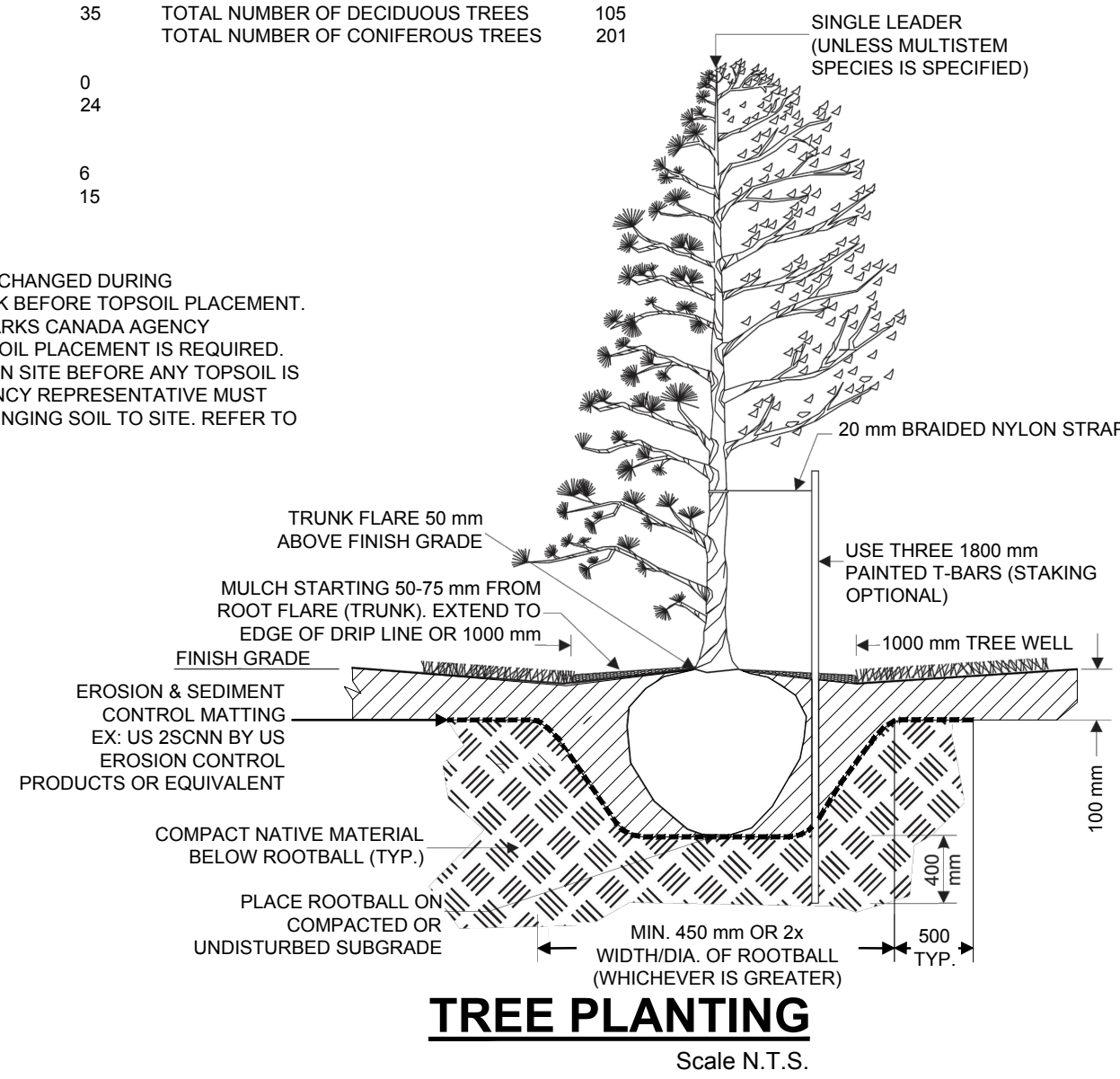
SHRUBS

- 1m FROM PATHWAYS FOR 1.5m DIAMETER SHRUBS O.C.
- 0.75m FROM PATHWAYS FOR 1m DIAMETER SHRUBS O.C.

ANY PLANT MATERIAL PLACED WITHIN THE SETBACKS NOTED ABOVE FOR REVIEW AND APPROVAL BY PARKS CANADA AGENCY REPRESENTATIVE.

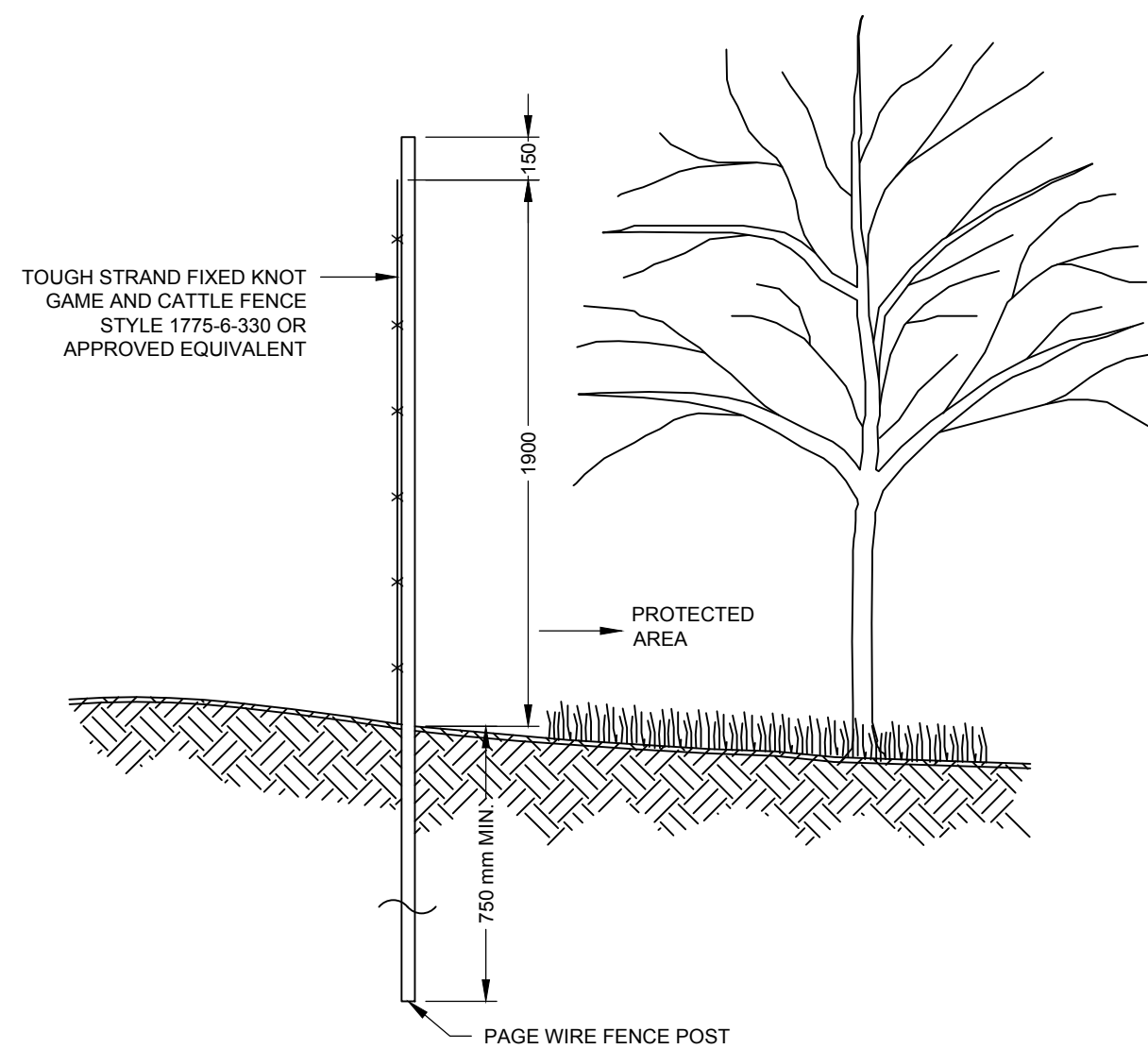
TREE REVIEW NOTES

- EVALUATION OF HEALTH, STRUCTURE, RISK FACTOR, OR OTHER CONDITIONS FOR ALL TREES ON SITE EXISTING-TO-REMAIN BY OTHERS.



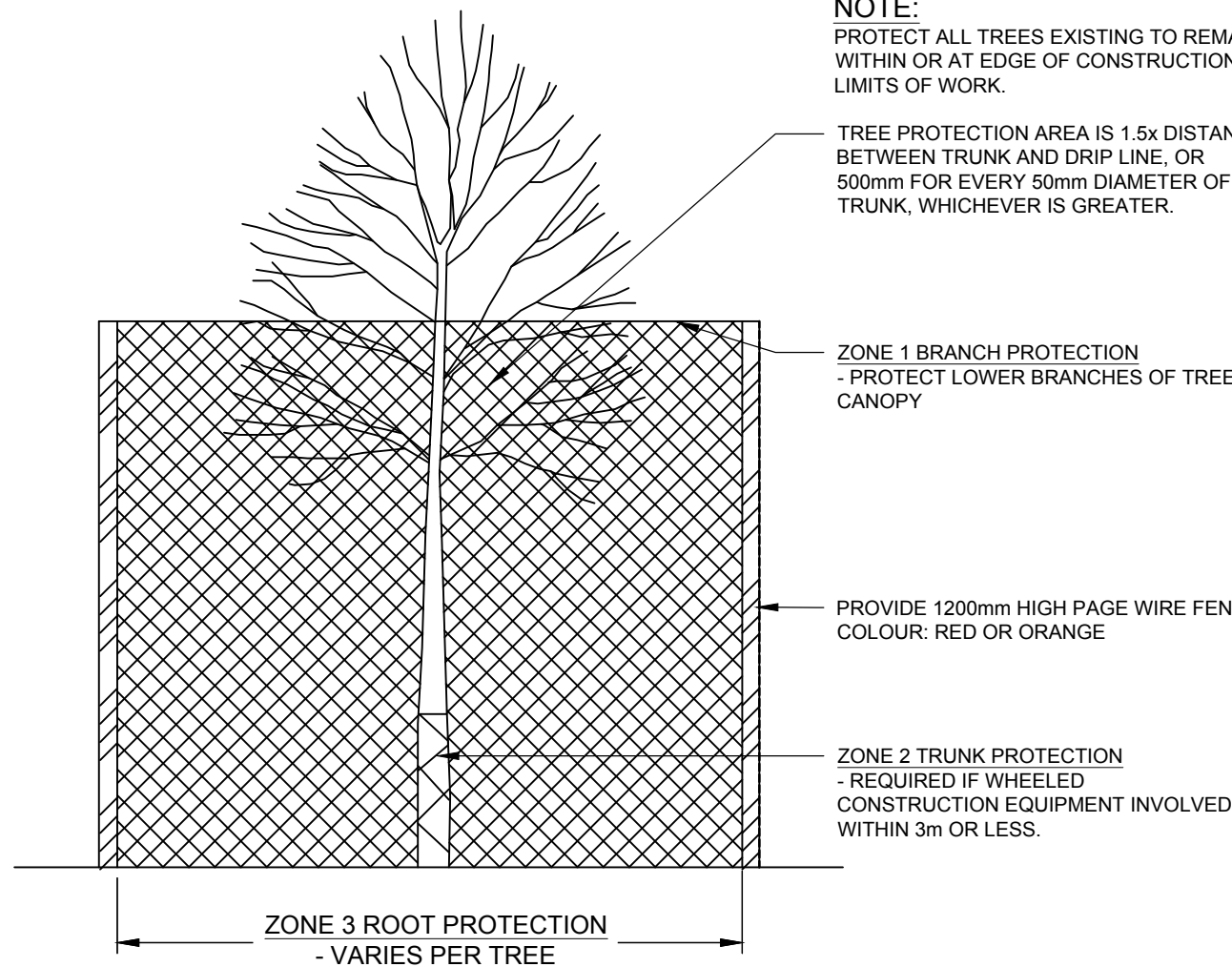
TREE PLANTING

Scale N.T.S.



NOTES:

- CONTRACTOR TO MAINTAIN FENCING TO PROTECT TREES AND SHRUBS AGAINST UNGULATES, AND OTHER WILDLIFE DAMAGE.
- BRACE FENCING AT INTERSECTIONS AND CORNERS.
- AFFIX PAGE WIRE FENCING TO POSTS SO FENCING IS FIRMLY ATTACHED.
- PAGE WIRE FENCE:
 - TOUGH STRAND FIXED KNOT GAME AND CATTLE FENCE STYLE 1775-6-330 - 13.5 GAUGE, GALVANIZED
- POSTS:
 - 3.75 m O.C. MINIMUM SPACING
 - 100-125 mm DIAMETER WOOD POSTS AT FENCE INTERMEDIATE LOCATIONS - GROUPED TREES AND SHRUBS
 - 150-175 mm DIAMETER WOOD POSTS AT FENCE INTERSECTIONS AND CORNERS - GROUPED TREES AND SHRUBS
 - T-BAR POSTS - INDIVIDUAL TREES



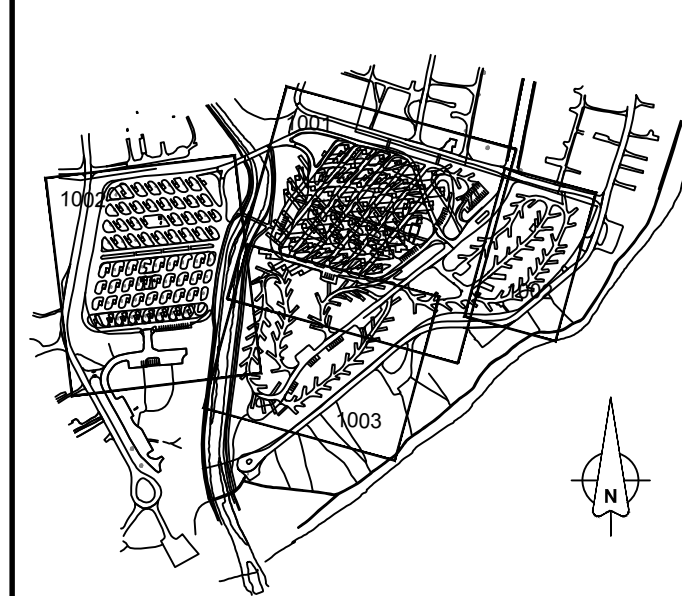
TREE PROTECTION - CONSTRUCTION

Scale N.T.S.

TREE PROTECTION - WILDLIFE

Scale N.T.S.

KEY PLAN



LEGEND

- PROPOSED ROAD
- PROPOSED CABLE FENCING
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
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- PROPOSED CONIFEROUS TREE
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- PROPOSED SHRUBS
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- HYDROSEED
- CONCRETE PAD (SEE ENGINEERS DRAWINGS)
- TRASH/RECYCLING CONCRETE PAD

PRELIMINARY

NOT FOR CONSTRUCTION

Date: 2016/01/18

B	2017/06/26	ISSUED FOR TENDER	JG	GK
	2017/03/22	ISSUED FOR 95% REVIEW	JG	GK
	2017/03/04	ISSUED FOR 95% REVIEW	JA	GK
	2017/02/15	ISSUED FOR 95% REVIEW	JA	GK
A	2017/01/20	ISSUED FOR 95% REVIEW	JA	GK
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	detail number numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Name Nom de l'expert-consult	Stamp Sceau de l'ingénieur
AECOM	The Alberta Geoffrey Kutz

Canada

Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943

Drawing title/Titre du dessin
PLANTING & LANDSCAPE LAYOUT PLAN LOOP C, D, & E

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	JA	2015-11-06
Designed by/Conçut par	Reviewed by/Revisé par	Scale/Echelle
GK	GK	1:750

FWOSC Project Manager/Administrateur de Projets FWOSC

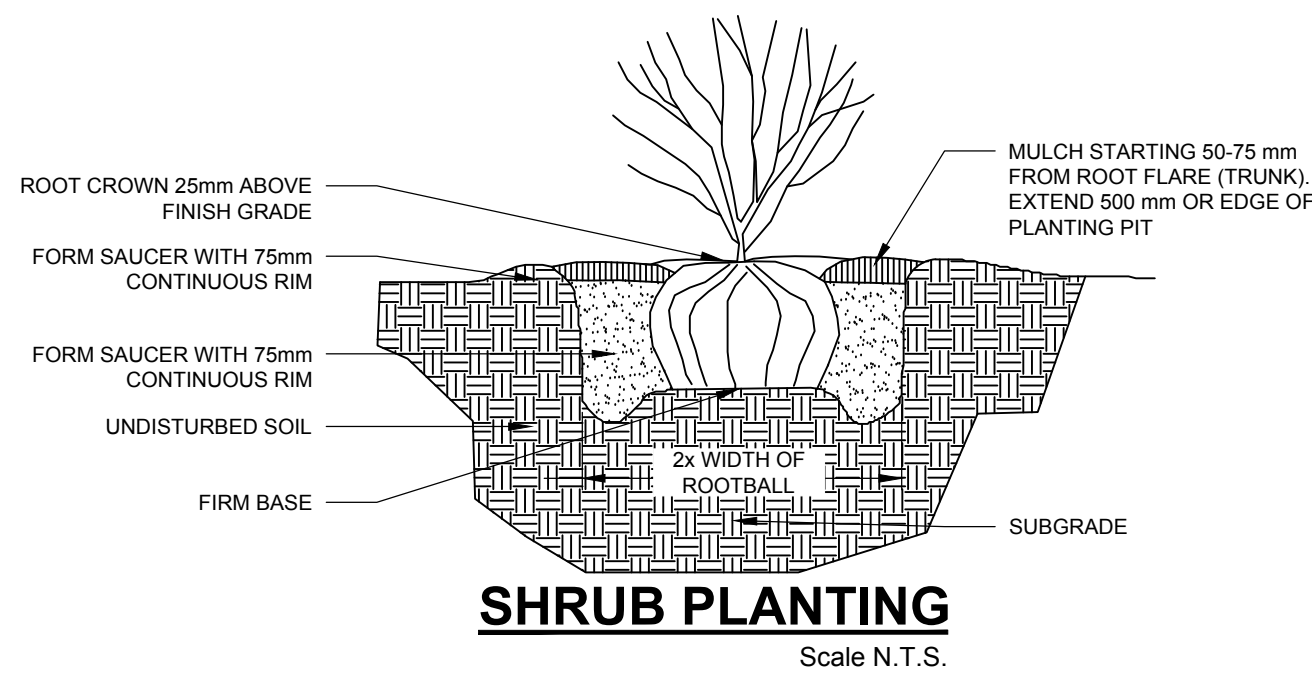
Client Acceptance/Acception du client	Approved by/Approuvé par

Park Responsible Officer/Agent Responsable		FWOSC Project Manager/Administrateur de Projets TPS	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille	

Drawing Reference No./No. de référence du dessin	L-1003
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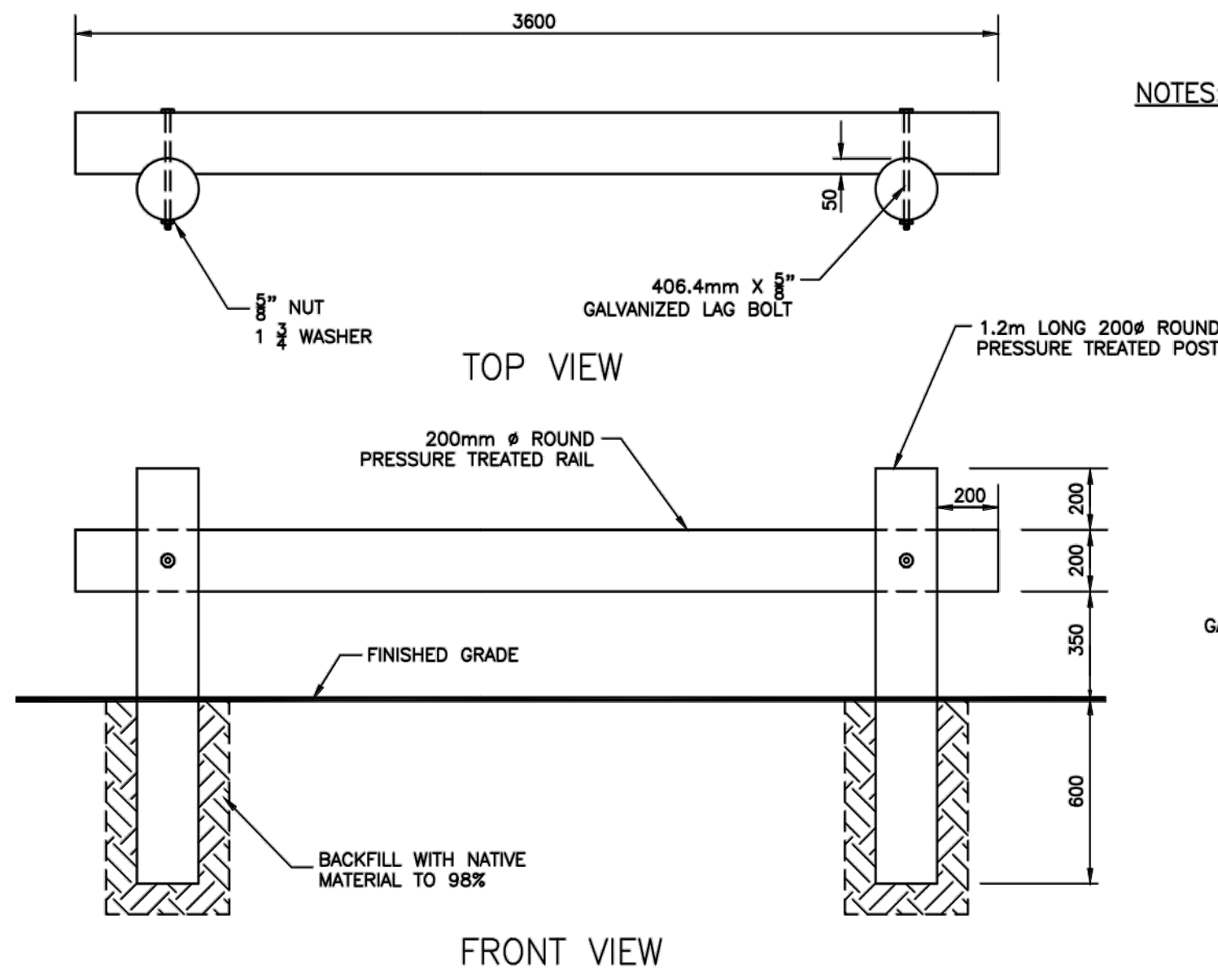
PLANT MATERIAL LIST:

Sym	Key	Qty	Unit	Botanical Name	Common Name	Size / Remarks
Deciduous Trees						
AN	30	EACH		ACER NEGUNDO 'BARON'	BARON BOXERLDER	50mm CAL SINGLE STEM; 3500mm MIN HT; 1800mm MIN BRANCHING HT; MIN 10 MAJOR BRANCHES IN WELL FORMED HEAD; LEADER NOT PRUNED; 700mm MIN ROOT SPREAD; B&B, TREE SPADE, STAKE
PB	58	EACH		POPULUS BALSAMIFERA	BALSAM POPLAR	50mm CAL SINGLE STEM; 3500mm MIN HT; 1800mm MIN BRANCHING HT; MIN 10 MAJOR BRANCHES IN WELL FORMED HEAD; LEADER NOT PRUNED; 700mm MIN ROOT SPREAD; B&B, TREE SPADE, STAKE
BO	17	EACH		BETULA OCCIDENTALIS	WATER BIRCH	40mm CAL SINGLE STEM; 3500mm MIN HT; 1800mm MIN BRANCHING HT; MIN 10 MAJOR BRANCHES IN WELL FORMED HEAD; LEADER NOT PRUNED; 700mm MIN ROOT SPREAD; B&B, TREE SPADE, STAKE
Coniferous Trees						
PM	114	EACH		PSEUDOTSUGA MENZIESII	DOUGLAS-FIR	2500 mm HT; 800 MIN ROOT SPREAD; BUSHY PLANTS; FULL TO GROUND; NO BARE OR BROWN SPOTS; SINGLE LEADER NOT PRUNED; B&B, TREE SPADE, STAKE
PG	26	EACH		PICEA GLAUCA	WHITE SPRUCE	2500 mm HT; 800 MIN ROOT SPREAD; BUSHY PLANTS; FULL TO GROUND; NO BARE OR BROWN SPOTS; SINGLE LEADER NOT PRUNED; B&B, TREE SPADE, STAKE
PC	61	EACH		PINUS CONTORTA	LODGEPOLE PINE	2500 mm HT; 800 MIN ROOT SPREAD; BUSHY PLANTS; FULL TO GROUND; NO BARE OR BROWN SPOTS; SINGLE LEADER NOT PRUNED; B&B, TREE SPADE, STAKE
Shrubs						
ag	92	EACH		ACER GLABRUM	MOUNTAIN MAPLE	#2 CONTAINER, 3 STRONG CANES, AT LEAST 2 OF WHICH SHALL BE 400mm LONG, BRANCHED 80mm MAX ABOVE THE BUD UNION, 3000 mm O.C.
cs	14	EACH		CORNUS STOLONIFERA	RED OSIER DOGWOOD	#2 CONTAINER, 3 STRONG CANES, AT LEAST 2 OF WHICH SHALL BE 400mm LONG, BRANCHED 80mm MAX ABOVE THE BUD UNION, 3000 mm O.C.



SHRUB PLANTING

Scale N.T.S.



- NOTES:**
1. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
 2. GAP BETWEEN ADJACENT SECTIONS TO BE 1m.

1 POST & RAIL FENCE

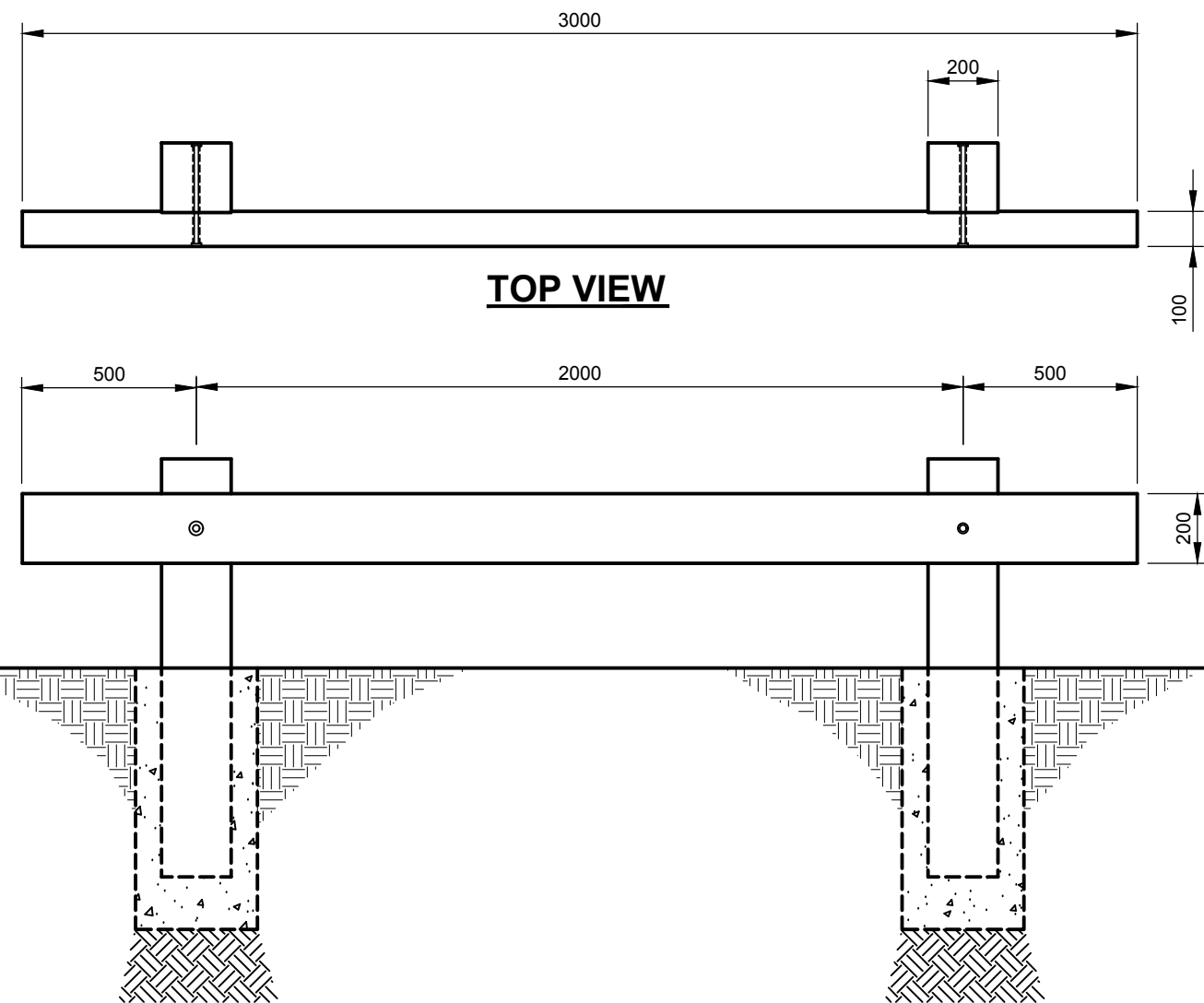
L-1004 Scale NT.S.

GENERAL NOTES:

- DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE INDICATED
- ALL BOLTS & FASTENINGS TO BE HOT DIP GALVANIZED
- CROSS BRACE TO BE LOCATED 100mm FROM TOP OF WOOD POSTS.
- WOOD TO BE PRESSURE-TREATED WITH AMMONIACAL COPPER QUATERNARY (ACQ) OR APPROVED EQUAL.
- ALL WOOD CUTS AND HOLES TO BE TREATED W/ 2 COATS OF ACQ OR APPROVED EQUAL.
- INSTALL SITE ID CARD ON 89x89 PRESSURE TREATED TIMBER POST FOR LOOP E ONLY. POST SHALL BE PLACED 1.0m BEHIND CENTRE OF BARRIER RAIL WITH MINIMUM EMBEDMENT OF 0.6m AND SIGN HEIGHT OF 1.2m. SLOPE TOP OF POST TO MATCH TOP OF BARRIER RAIL POSTS

NOTE:

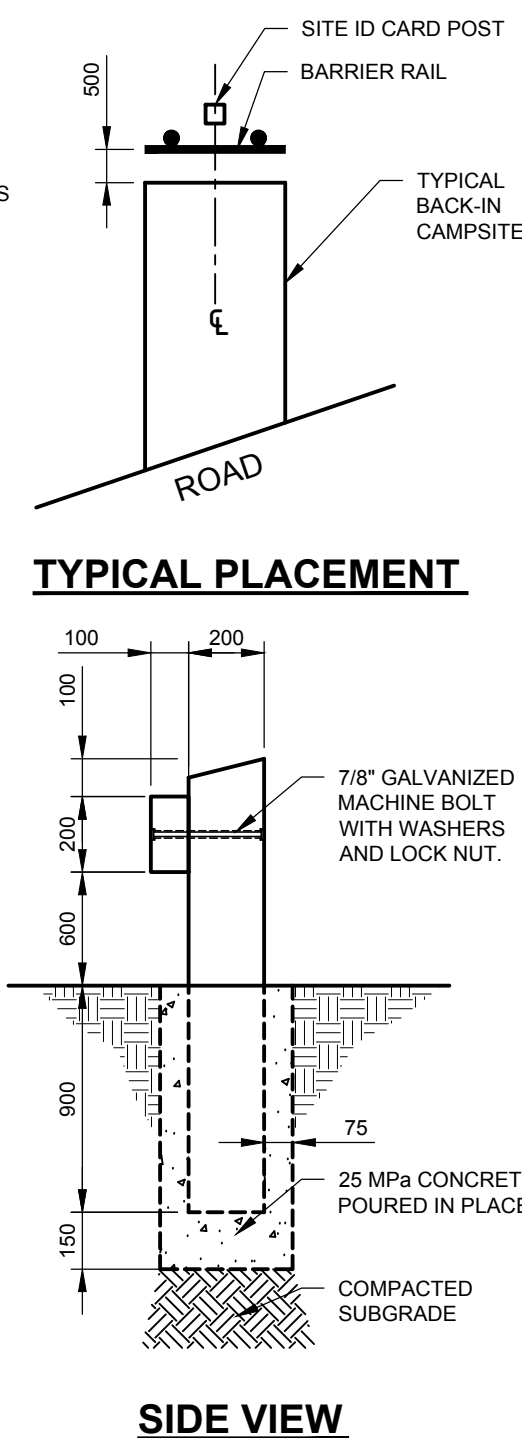
- INSTALL BARRIER RAIL AT ALL BACK-IN CAMP SITES



ELEVATION

3 BARRIER RAIL

L-1004 Scale NT.S.

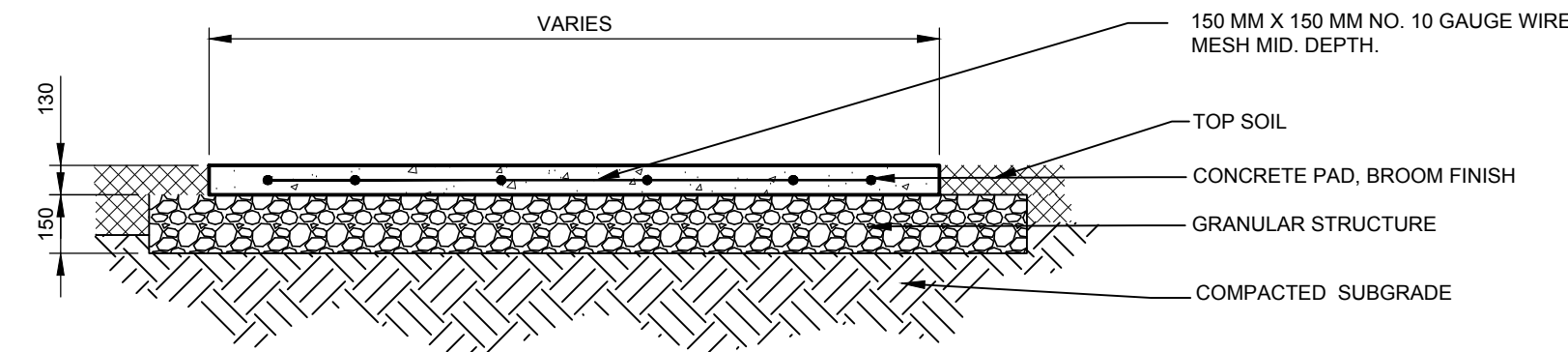


TYPICAL PLACEMENT

SIDE VIEW

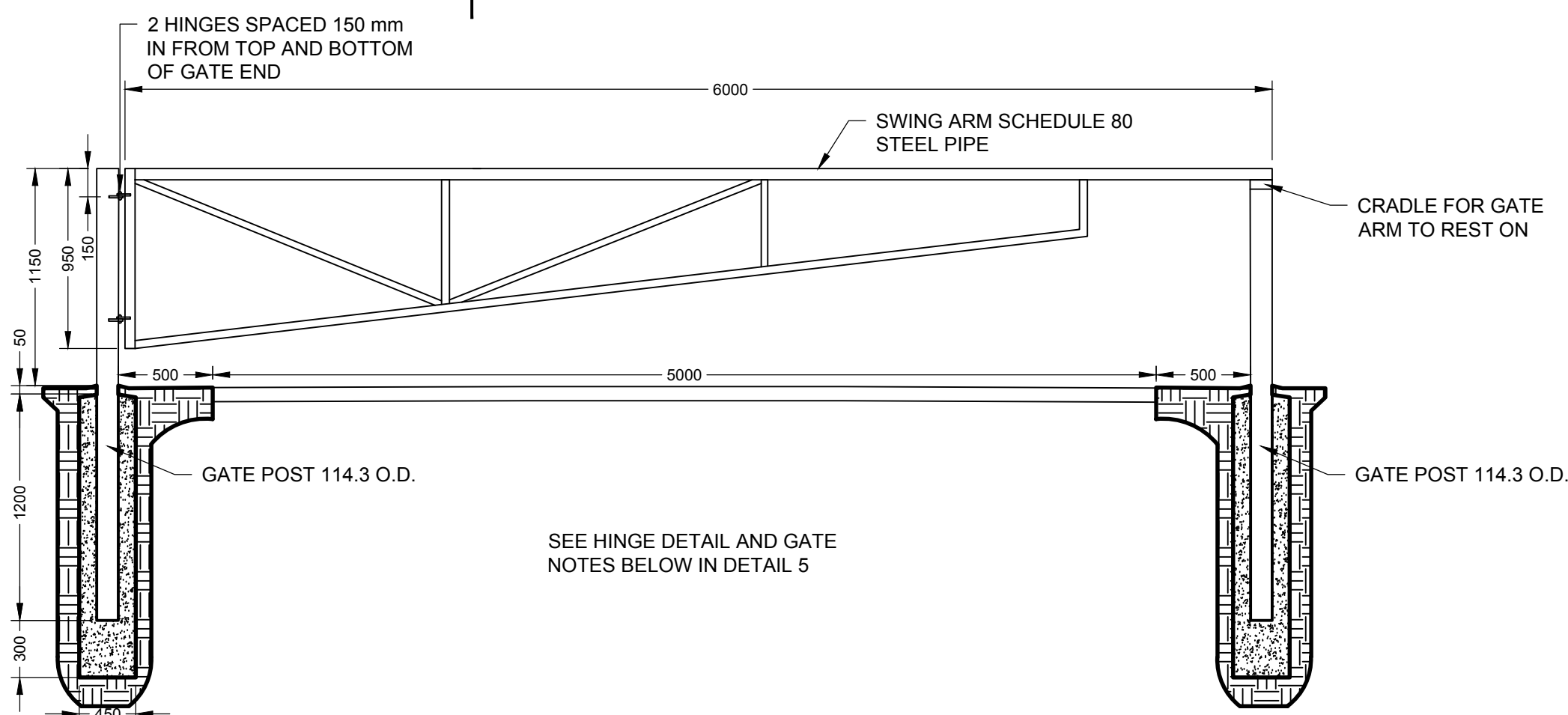
NOTE:

- REFER TO SPECIFICATIONS 323700 SITE FURNISHINGS



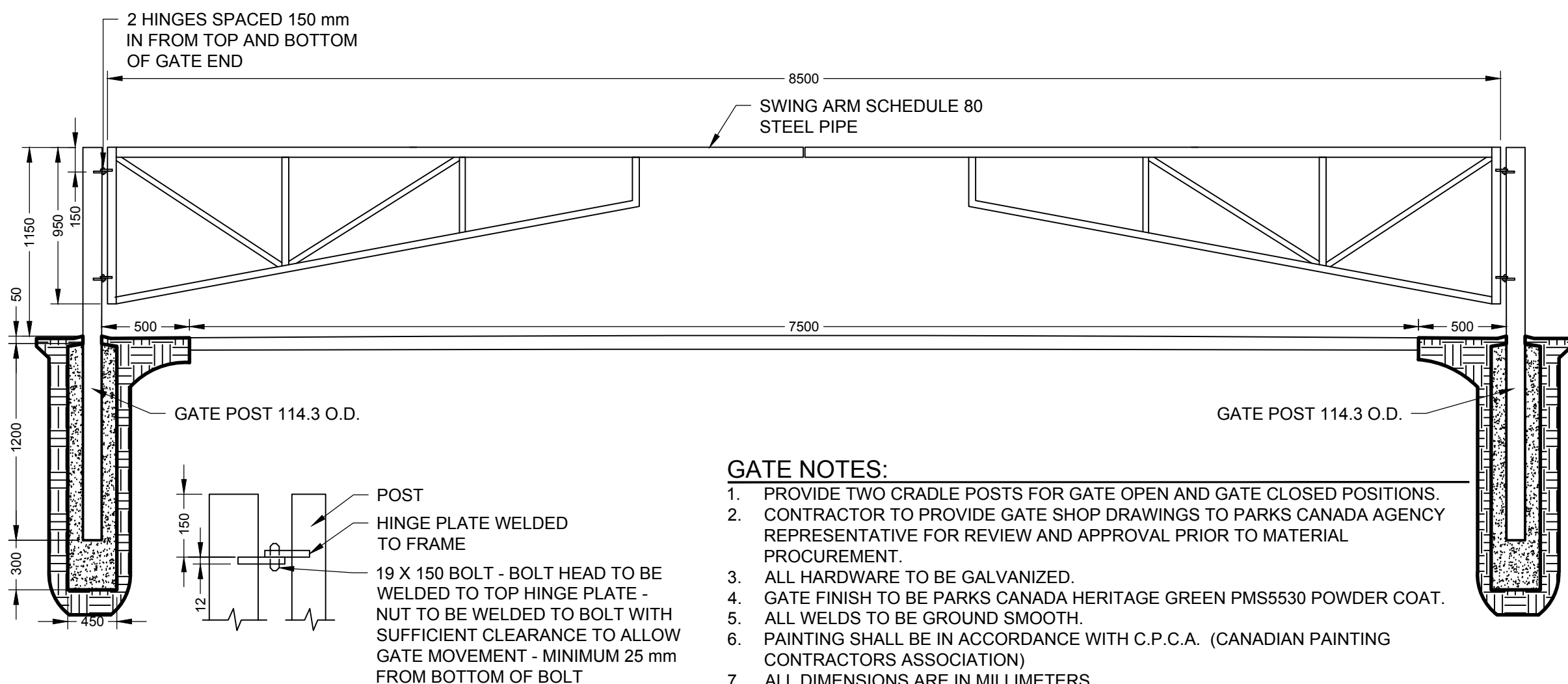
2 CONCRETE PAD FOR WASTE RECEPTACLES

L-1004 Scale NT.S.



4 6.0 m STEEL PIPE SWING GATE

L-1004 Scale NT.S.



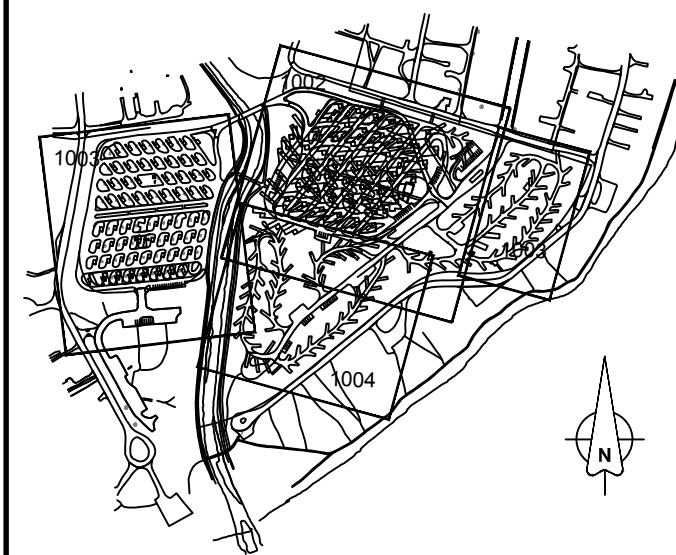
GATE NOTES:

1. PROVIDE TWO CRADLE POSTS FOR GATE OPEN AND GATE CLOSED POSITIONS.
2. CONTRACTOR TO PROVIDE GATE SHOP DRAWINGS TO PARKS CANADA AGENCY REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MATERIAL PROCUREMENT.
3. ALL HARDWARE TO BE GALVANIZED.
4. GATE FINISH TO BE PARKS CANADA HERITAGE GREEN PMS5530 POWDER COAT.
5. ALL WELDS TO BE GROUND SMOOTH.
6. PAINTING SHALL BE IN ACCORDANCE WITH C.P.C.A. (CANADIAN PAINTING CONTRACTORS ASSOCIATION)
7. ALL DIMENSIONS ARE IN MILLIMETERS.
8. CRADLE FOR GATE SWING ARM TO BE HALF PIPE WELDED TO TOP OF THE CRADLE POST. ALIGN HALF PIPE CRADLE WITH GATE SWING ARM. INTERIOR DIAMETER OF CRADLE TO MATCH OUTSIDE DIAMETER OF SWING ARM PIPE. INVERT OF CRADLE TO BE LEVEL WITH UNDERSIDE OF SWING ARM.
9. ENSURE SWING ARM IS LEVEL
10. PROVIDE STEEL LOOPS FOR PADLOCK ON SWING ARM AND CRADLE POST.
11. ATTACH WHITE REFLECTIVE TAPE ALONG LENGTH OF SWING ARM EACH SIDE. TAPE TO BE 25 mm HIGH

5 8.5 m STEEL PIPE DOUBLE SWING GATE

L-1004 Scale NT.S.

KEY PLAN



LEGEND

PRELIMINARY
NOT FOR CONSTRUCTION

Date: 2016/01/18

B	2017/08/30	ISSUED FOR TENDER	JG	GK
	2017/03/24	ISSUED FOR 95% REVIEW	JG	GK
	2017/03/03	ISSUED FOR 95% REVIEW	JA	GK
A	2017/02/15	ISSUED FOR 95% REVIEW	JA	GK
No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé

Revision / Révision		
A	detail number / numéro de détail	A
B	source drawing no. / de dessin no.	B/C
C	detail on drawing no. / détail sur dessin no.	

Consultant's Name / Nom de l'expert-consultant	Stamp / Sceau de l'ingénieur
AECOM	The Alberta Engineering Association Geoffrey Kalitz

Canada

Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS
FII PROJECT NO. 943

Drawing title/Titre du dessin
LANDSCAPE DETAILS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	JA	2015-11-06
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
GK	GK	1:750

FWOSC Project Manager/Administrateur de Projets TPSCC

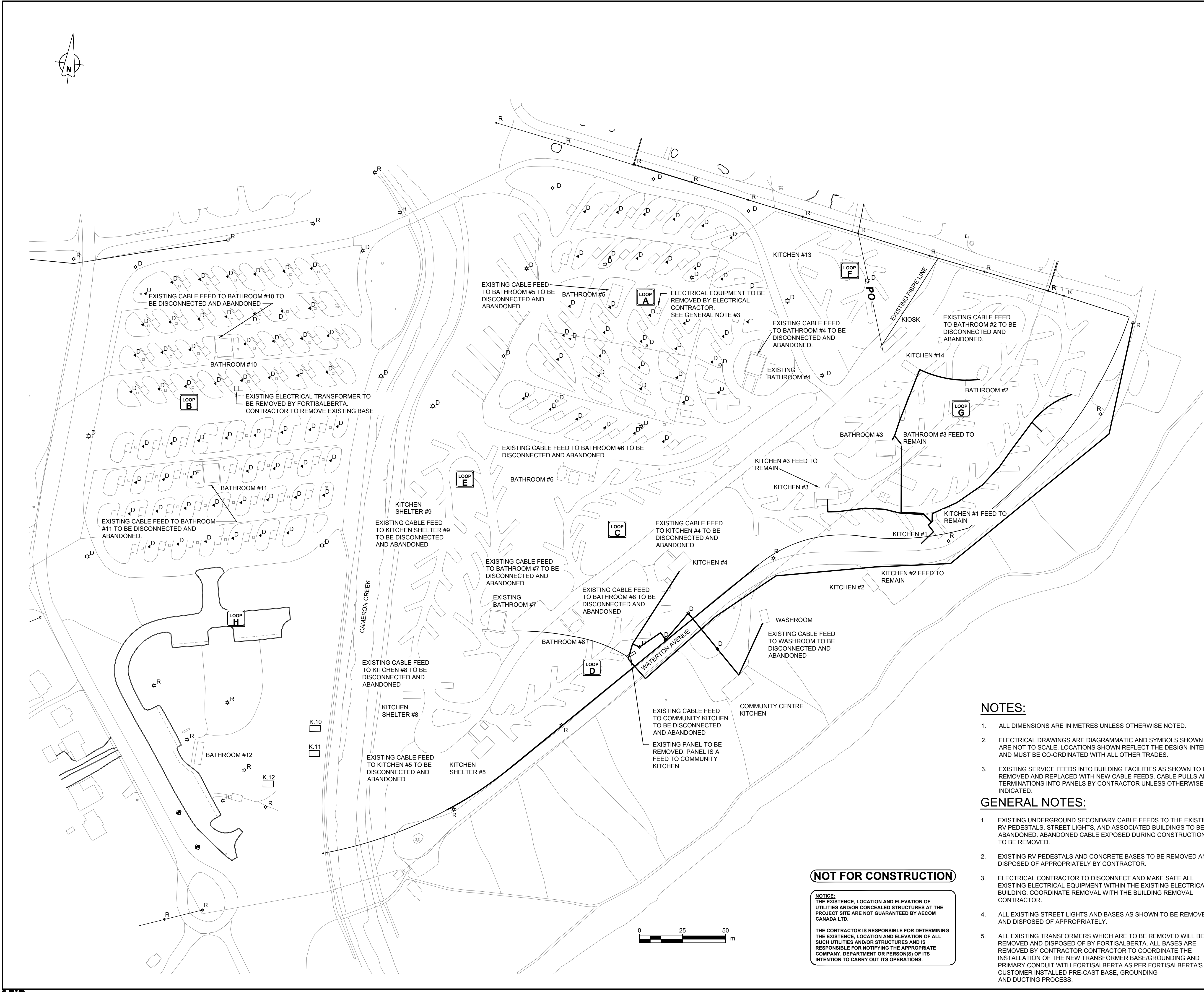
Client Acceptance/Acceptation du client Approved by/Approuvé par

Park Responsible Officer/Agent Responsable FWOSC Project Manager/Administrateur de Projets TPSCC

Project No./No. du projet Asset No./No. du bien Sheet No./No. de la feuille

60452200 31 of 47

L-1004



KEY PLAN

LEGEND

- STREET LIGHT POST AND/OR POWER POLE TO BE REMOVED
- RV PEDESTAL TO BE REMOVED
- STREET LIGHT POST AND/OR POWER POLE TO BE REMAIN
- PO** OVERHEAD POWER LINE
- UNDERGROUND POWER LINE

DATE Jun 22 17

PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature [Signature] Date Jun 23 17
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

D	17-06-23	ISSUED FOR TENDER	EL	JR
C	17-03-27	ISSUED FOR 95% REVIEW	NC	JR
B	16-01-19	ISSUED FOR 90% REVIEW	NC	JR
A	15-10-04	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A detail number numéro de détail				
B source drawing no. de dessin no.				
C detail on drawing no. détail sur dessin no.				
Consultant's Name Nom de l'expert-consult			Eng. Stamp Sceau de l'ingénieur	
AECOM				
Canada				
Client/client Parks Canada Agency L'Agence Parcs Canada				
Western and Northern Region Ouest et Nord du Canada				
Project title/Titre du projet WATERTON TOWNSITE CAMPGROUND IMPROVMENTS FII PROJECT NO. 943				
Drawing title/Titre du dessin ELECTRICAL DEMOLITION PLAN				
Surveyed by/Arpenté par AECOM		Drawn by/Dessiné par NC		Date/Date 2015-11-06
Designed by/Conçue par JR		Reviewed by/Revisé par RS		Scale/Echelle 1000
PWOSC Project Manager/Administrateur de Projets TP500 -				
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Part Responsible Officer/Agent Responsable PWOSC Project Manager/Administrateur de Projets TP500				
Project No./No. du projet 60432200		Asset No./No. du bien -		Sheet No./No. de la feuille 32 of 47
Drawing Reference No./No. de référence du dessin E-1001				

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SYMBOLS SHOWN ARE NOT TO SCALE. LOCATIONS SHOWN REFLECT THE DESIGN INTENT AND MUST BE CO-ORDINATED WITH ALL OTHER TRADES.
- EXISTING SERVICE FEEDS INTO BUILDING FACILITIES AS SHOWN TO BE REMOVED AND REPLACED WITH NEW CABLE FEEDS. CABLE PULLS AND TERMINATIONS INTO PANELS BY CONTRACTOR UNLESS OTHERWISE INDICATED.

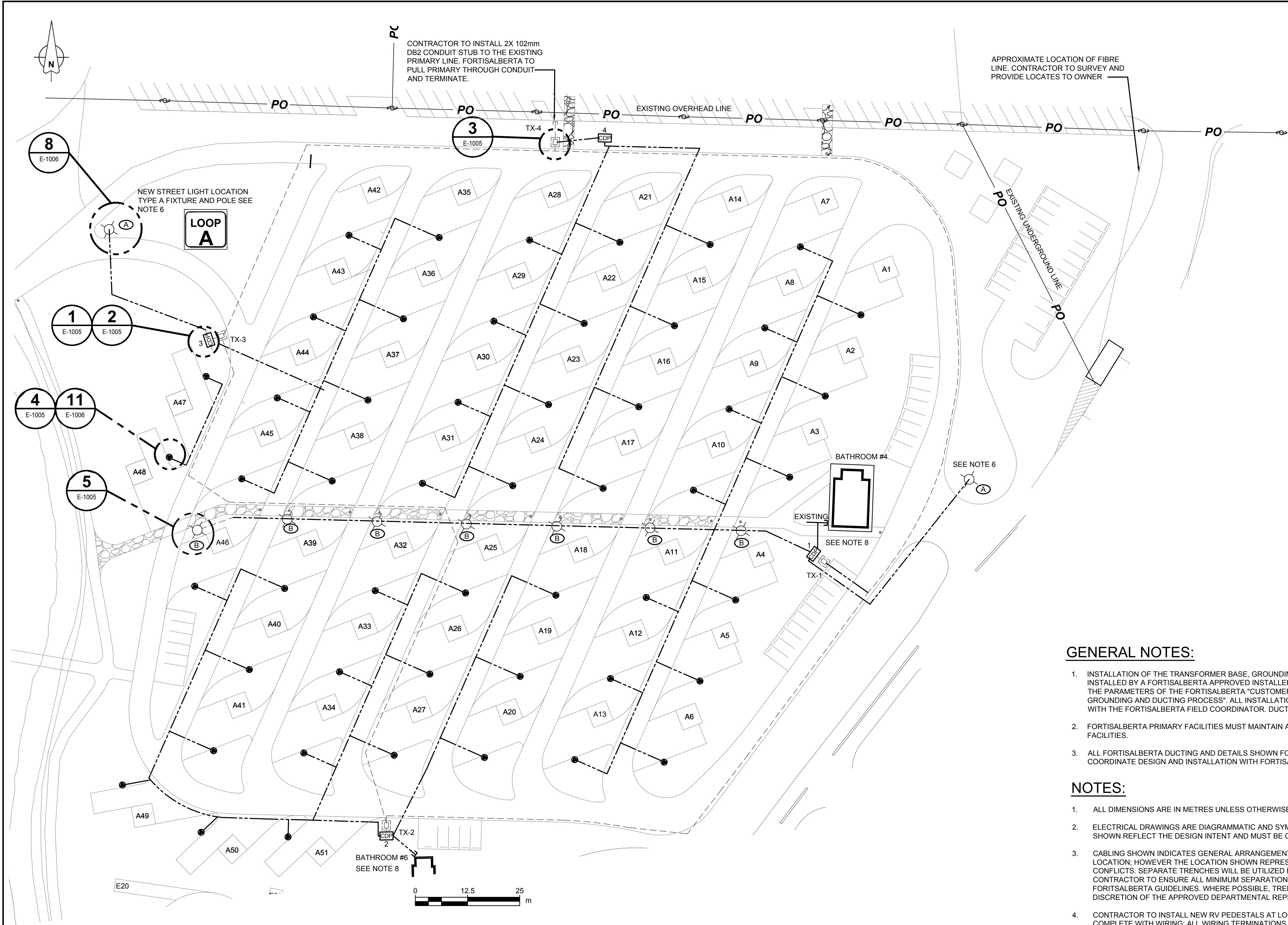
GENERAL NOTES:

- EXISTING UNDERGROUND SECONDARY CABLE FEEDS TO THE EXISTING RV PEDESTALS, STREET LIGHTS, AND ASSOCIATED BUILDINGS TO BE ABANDONED. ABANDONED CABLE EXPOSED DURING CONSTRUCTION TO BE REMOVED.
- EXISTING RV PEDESTALS AND CONCRETE BASES TO BE REMOVED AND DISPOSED OF APPROPRIATELY BY CONTRACTOR.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND MAKE SAFE ALL EXISTING ELECTRICAL EQUIPMENT WITHIN THE EXISTING ELECTRICAL BUILDING. COORDINATE REMOVAL WITH THE BUILDING REMOVAL CONTRACTOR.
- ALL EXISTING STREET LIGHTS AND BASES AS SHOWN TO BE REMOVED AND DISPOSED OF APPROPRIATELY.
- ALL EXISTING TRANSFORMERS WHICH ARE TO BE REMOVED WILL BE REMOVED AND DISPOSED OF BY FORTISALBERTA. ALL BASES ARE REMOVED BY CONTRACTOR.CONTRACTOR TO COORDINATE THE INSTALLATION OF THE NEW TRANSFORMER BASE/GROUNDING AND PRIMARY CONDUIT WITH FORTISALBERTA AS PER FORTISALBERTA'S CUSTOMER INSTALLED PRE-CAST BASE, GROUNDING AND DUCTING PROCESS.

NOT FOR CONSTRUCTION

NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA LTD.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.



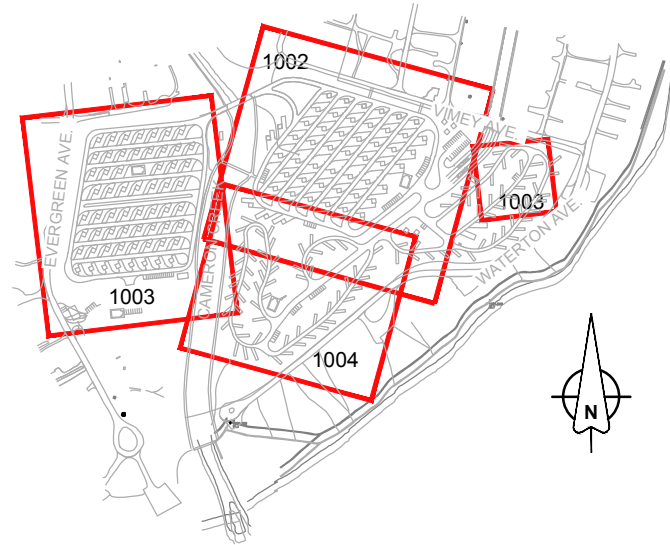
GENERAL NOTES:

- 1. INSTALLATION OF THE TRANSFORMER BASE, GROUNDING AND DUCTING MUST BE INSTALLED BY A FORTISALBERTA APPROVED INSTALLER. THE INSTALLATION WILL FOLLOW THE PARAMETERS OF THE FORTISALBERTA "CUSTOMER INSTALLED PRE-CAST BASE, GROUNDING AND DUCTING PROCESS". ALL INSTALLATIONS TO BE COORDINATED WITH THE FORTISALBERTA FIELD COORDINATOR. DUCTING TO BE UNDER THIS CONTRACT.
- 2. FORTISALBERTA PRIMARY FACILITIES MUST MAINTAIN A MINIMUM OF 1.0m TO THE SECONDARY FACILITIES.
- 3. ALL FORTISALBERTA DUCTING AND DETAILS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE DESIGN AND INSTALLATION WITH FORTISALBERTA.

NOTES:

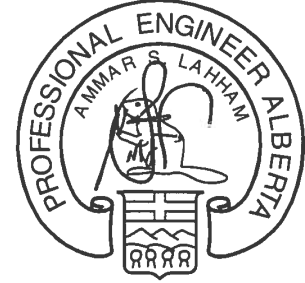
- 1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- 2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SYMBOLS SHOWN ARE NOT TO SCALE. LOCATIONS SHOWN REFLECT THE DESIGN INTENT AND MUST BE COORDINATED WITH ALL OTHER TRADES.
- 3. CABLING SHOWN INDICATES GENERAL ARRANGEMENT ONLY AND DOES NOT REFLECT TRENCH LOCATION; HOWEVER THE LOCATION SHOWN REPRESENTS THE BEST UNDERSTANDING OF MINIMAL CONFLICTS. SEPARATE TRENCHES WILL BE UTILIZED FOR PRIMARY AND SECONDARY CABLING. CONTRACTOR TO ENSURE ALL MINIMUM SEPARATION REQUIREMENTS ARE ACHIEVED AS PER CEC AND FORTISALBERTA GUIDELINES. WHERE POSSIBLE, TRENCHING ROUTES MAY BE MODIFIED UNDER THE DISCRETION OF THE APPROVED DEPARTMENTAL REPRESENTATIVE TO MINIMIZE TREE REMOVAL.
- 4. CONTRACTOR TO INSTALL NEW RV PEDESTALS AT LOCATIONS AS SHOWN. INSTALLATION SHALL BE COMPLETE WITH WIRING; ALL WIRING TERMINATIONS SHALL BE INSIDE THE PEDESTALS. REFER TO DETAILS FOR EXACT OFFSETS.
- 5. CONTRACTOR TO INSTALL CENTRAL DISTRIBUTION PANELS (CDP) AND TERMINATE SECONDARY CABLES INSIDE THE CDPs. CABLE TERMINATIONS INTO FORTISALBERTA TRANSFORMERS TO BE COORDINATED WITH FORTISALBERTA.
- 6. NEW TYPE A STREET LIGHTS ARE FED FROM NEW CDP PANEL AS INDICATED ON PLAN AND SINGLE LINE DIAGRAM. STREET LIGHTS TO MAINTAIN A MINIMUM OF 1.0m FROM EDGE OF ROAD.
- 7. NEW TYPE B BOLLARD LIGHTS ARE ALSO FED FROM NEW CDP PANEL. BOLLARDS ARE MOUNTED 0.5m FROM EDGE OF PATH.
- 8. CONTRACTOR TO INSTALL PRE-CAST CONCRETE BASE AND ASSOCIATED GROUNDING ALONG WITH CONDUIT FOR ALL UTILITY TRANSFORMERS PER FORTISALBERTA GUIDELINES. ALL INSTALLATIONS MUST BE INSPECTED BY AND INSTALLATIONS COORDINATED WITH FORTISALBERTA.
- 9. CONTRACTOR TO RUN NEW CONDUIT STUB TO BATHROOM #4, AND #6 FACILITIES AND PULL SECONDARY CABLE WITHIN EXISTING BUILDING CONDUITS FOR TERMINATION INTO ELECTRICAL PANEL. REFER TO SINGLE LINE DIAGRAM FOR CABLE TYPE AND SIZE. BATHROOM #4 EXISTING CONDUIT TO BE INTERCEPTED.
- 10. EXACT LOCATION OF CDP PANELS TO BE DETERMINED ON SITE MAINTAINING MINIMUM DISTANCE REQUIREMENTS TO THE FORTISALBERTA TRANSFORMER BASES. DISTANCE BETWEEN CDP PANEL AND TRANSFORMER TO BE BETWEEN 5-10m.
- 11. ALL TRANSFORMERS ARE FORTISALBERTA METERED. CONTRACTOR TO COORDINATE TERMINATIONS WITH FORTISALBERTA.
- 12. WATER LINES ARE INSTALLED AT A SHALLOW DEPTH. CONTRACTOR TO MAINTAIN MINIMUM HORIZONTAL SEPARATION AND CROSSING REQUIREMENTS.

KEY PLAN



LEGEND

- CDP CENTRAL DISTRIBUTION PANEL
- 240V 50A/ 120V 30A-15A RV PEDESTALS
- UNDERGROUND SECONDARY
- PRIMARY CABLE 102mm DB2 CONDUIT
- PO OVERHEAD POWER LINE
- 102mm RPVC CONDUIT ROAD CROSSING
- POLE MOUNTED LUMINAIRE
- TRANSFORMER BASE/GROUNDING
- LUMINAIRE TYPE X (SEE FIXTURE SCHEDULE)



DATE Jun 22 17

PERMIT TO PRACTICE
AECOM CANADA LTD.

Signature: [Signature]
Date: Jun 23 17

PERMIT NUMBER: P10450
The Association of Professional
Engineers and Geoscientists of Alberta

D	17-06-23	ISSUED FOR TENDER	NC	JR
C	17-03-27	ISSUED FOR 95% REVIEW	NC	JR
B	16-01-19	ISSUED FOR 90% REVIEW	NC	JR
A	15-10-08	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision		A detail number numéro de détail	
B source drawing no. de dessin no.		A	
C detail on drawing no. détail sur dessin no.		B/C	

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

Client/client		L'Agence Parcs Canada	
Parks Canada Agency		Ouest et Nord du Canada	
Western and Northern Region			

Project title/Titre du projet		WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943	
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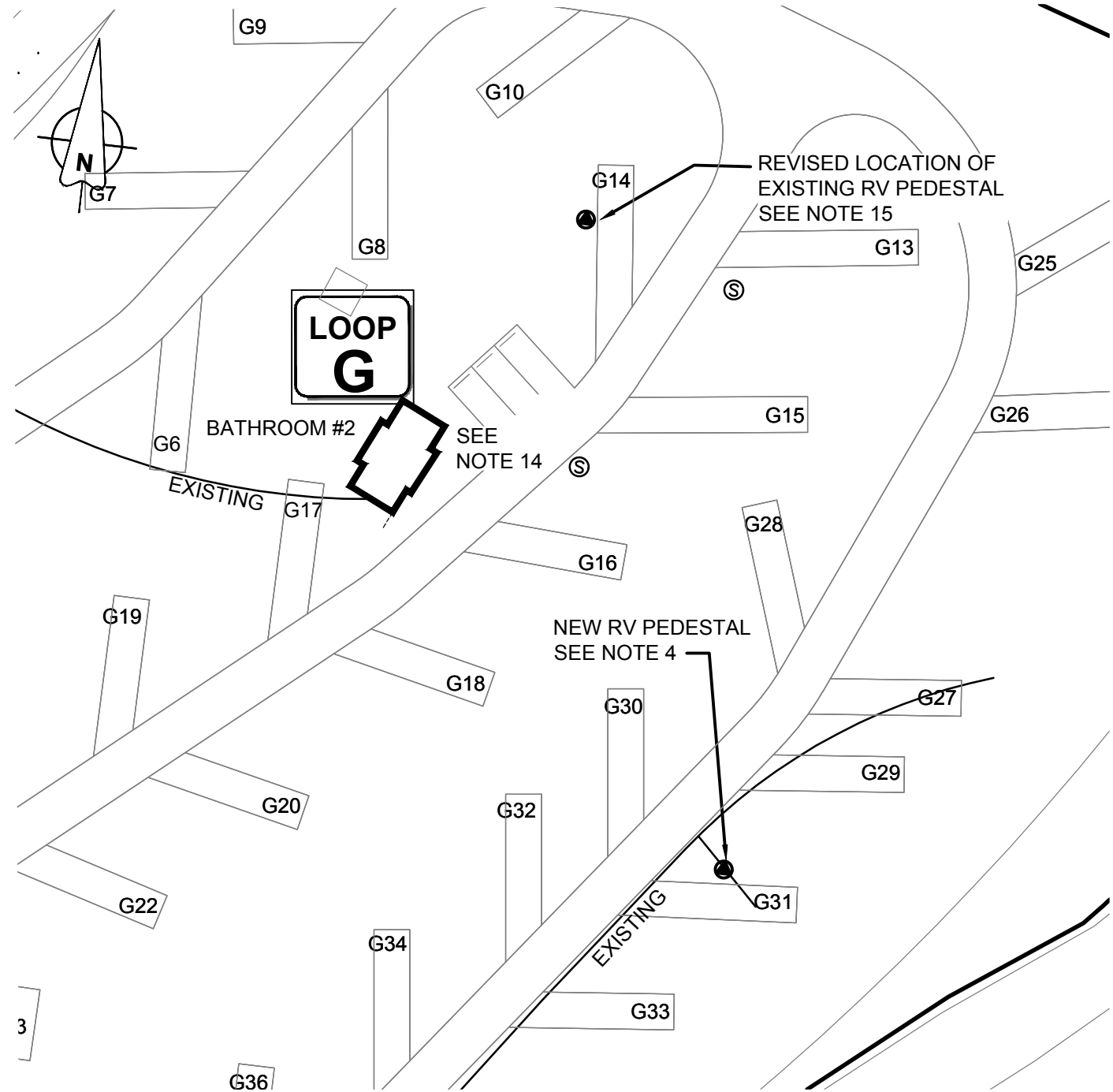
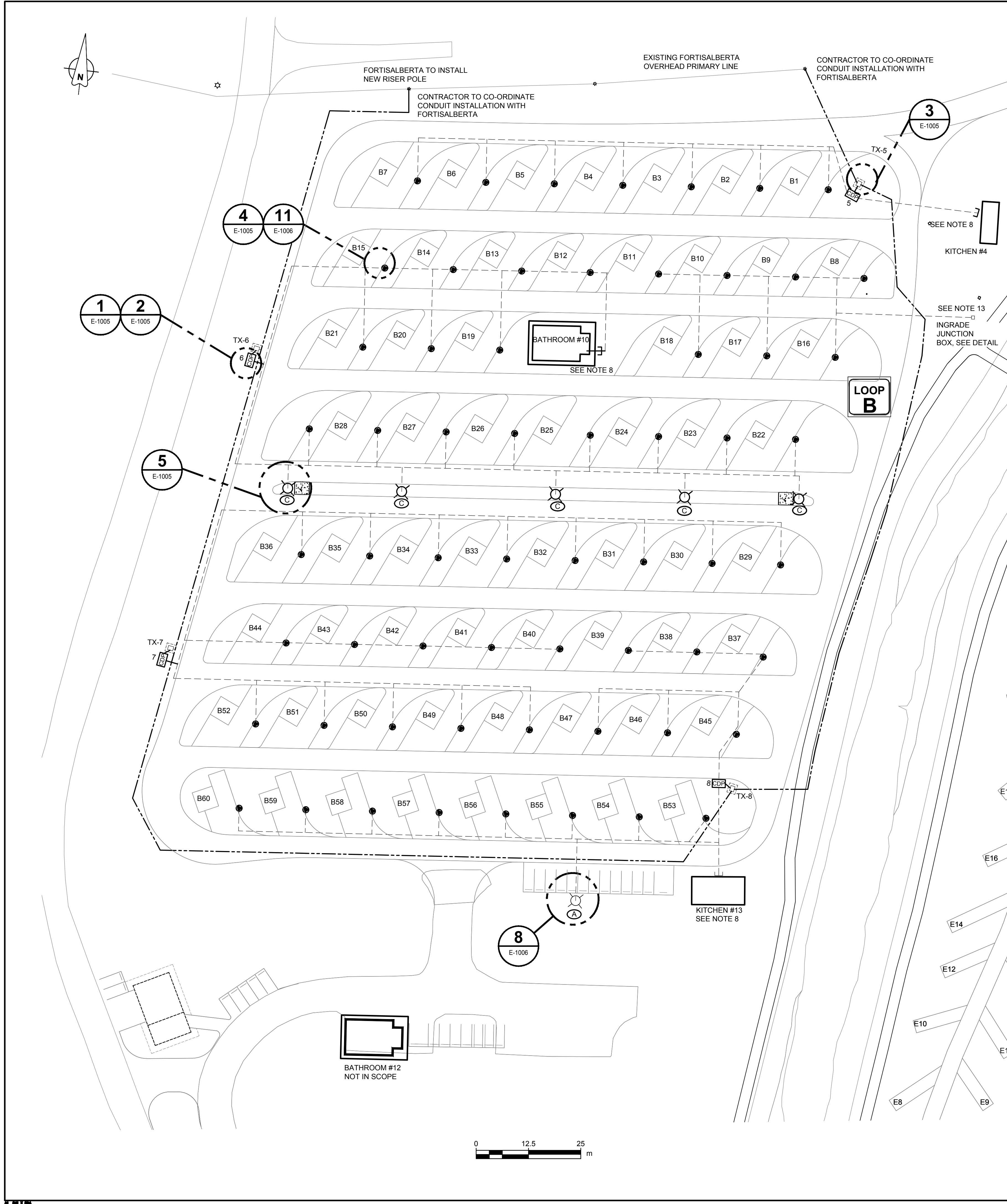
Drawing title/Titre du dessin		ELECTRICAL POWER/LIGHTING PLAN	
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Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par NC	Date/Date 2015-11-08
Designed by/Conçu par JR	Reviewed by/Revisé par RS	Scale/Echelle 500
PWOSC Project Manager/Administrateur de Projets TPSSC		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Part Responsible Officer/Agent Responsable		PWOSC Project Manager/Administrateur de Projets TPSSC
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille 33 of 47
Drawing Reference No./No. de référence du dessin		E-1002

NOT FOR CONSTRUCTION

NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA LTD.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.



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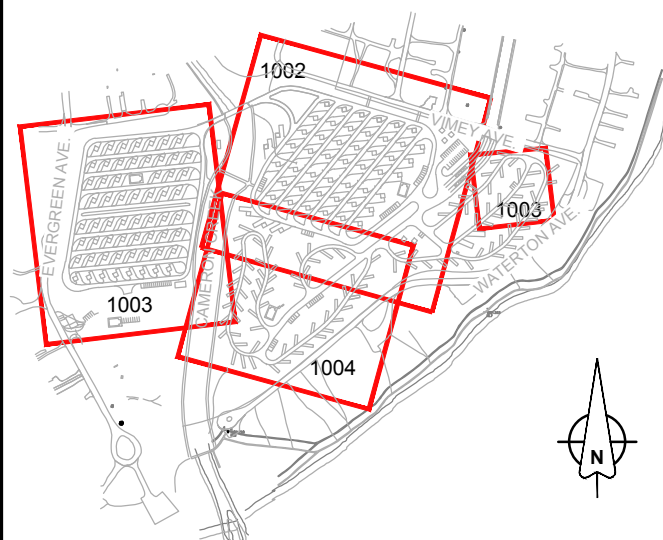
GENERAL NOTES:

1. INSTALLATION OF THE TRANSFORMER BASE, GROUNDING AND DUCTING MUST BE INSTALLED BY A FORTISALBERTA APPROVED INSTALLER. THE INSTALLATION WILL FOLLOW THE PARAMETERS OF THE FORTISALBERTA "CUSTOMER INSTALLED PRE-CAST BASE, GROUNDING AND DUCTING PROCESS". ALL INSTALLATIONS TO BE COORDINATED WITH THE FORTISALBERTA FIELD COORDINATOR. DUCTING TO BE UNDER THIS CONTRACT.
2. FORTISALBERTA PRIMARY FACILITIES MUST MAINTAIN A MINIMUM OF 1.0m TO THE SECONDARY FACILITIES.
3. ALL FORTISALBERTA DUCTING AND DETAILS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE DESIGN AND INSTALLATION WITH FORTISALBERTA.

NOTES:

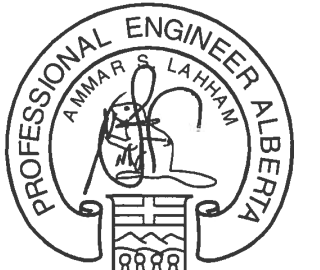
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SYMBOLS SHOWN ARE NOT TO SCALE. LOCATIONS SHOWN REFLECT THE DESIGN INTENT AND MUST BE COORDINATED WITH ALL OTHER TRADES.
3. CABLING SHOWN INDICATES GENERAL ARRANGEMENT ONLY AND DOES NOT REFLECT TRENCH LOCATION; HOWEVER THE LOCATION SHOWN REPRESENTS THE BEST UNDERSTANDING OF MINIMAL CONFLICTS. SEPARATE TRENCHES WILL BE UTILIZED FOR PRIMARY AND SECONDARY CABLING. CONTRACTOR TO ENSURE ALL MINIMUM SEPARATION REQUIREMENTS ARE ACHIEVED AS PER CEC AND FORTISALBERTA GUIDELINES. WHERE POSSIBLE, TRENCHING ROUTES MAY BE MODIFIED UNDER THE DISCRETION OF THE APPROVED DEPARTMENTAL REPRESENTATIVE TO MINIMIZE TREE REMOVAL.
4. CONTRACTOR TO INSTALL NEW RV PEDESTAL AT LOCATION AS SHOWN. INSTALLATION SHALL BE COMPLETE WITH WIRING; ALL WIRING TERMINATIONS SHALL BE INSIDE THE PEDESTAL. REFER TO DETAILS FOR EXACT OFFSETS. CONTRACTOR TO IDENTIFY THE LOCATION OF EXISTING CDP PANEL AND FEED USING A 3#4/0 AG ALWL90 CABLE.
5. CONTRACTOR TO INSTALL CENTRAL DISTRIBUTION PANELS (CDP) AND TERMINATE SECONDARY CABLES INSIDE THE CDP'S. CABLE TERMINATIONS INTO FORTISALBERTA TRANSFORMERS TO BE COORDINATED WITH FORTISALBERTA.
6. NEW TYPE C BOLLARD LIGHTS ARE FED FROM NEW CDP PANEL AS INDICATED ON PLAN AND SINGLE LINE DIAGRAM. STREET LIGHTS (IF APPLICABLE) TO MAINTAIN A MINIMUM OF 1.0m FROM EDGE OF ROAD. BOLLARDS ARE MOUNTED 0.5m FROM EDGE OF PATH.
7. CONTRACTOR TO INSTALL PRE-CAST CONCRETE BASE AND ASSOCIATED GROUNDING ALONG WITH CONDUIT FOR ALL UTILITY TRANSFORMERS PER FORTISALBERTA GUIDELINES. ALL INSTALLATIONS MUST BE INSPECTED BY AND INSTALLATIONS COORDINATED WITH FORTISALBERTA.
8. CONTRACTOR TO RUN NEW CONDUIT STUB TO BATHROOM #1 AND #2, KITCHEN #4 AND KITCHEN #13 FACILITIES AND PULL SECONDARY CABLE WITHIN EXISTING BUILDING CONDUITS FOR TERMINATION INTO ELECTRICAL PANEL. BATHROOM #10 CONDUIT TO BE INTERCEPTED AND HAVE NEW CABLE FEED. TERMINATE WITHIN EXISTING PANEL. REFER TO SINGLE LINE DIAGRAM FOR CABLE TYPE AND SIZE.
9. EXACT LOCATION OF CDP PANELS TO BE DETERMINED ON SITE MAINTAINING MINIMUM DISTANCE REQUIREMENTS TO THE FORTISALBERTA TRANSFORMER BASES. DISTANCE BETWEEN CDP PANEL AND TRANSFORMER TO BE BETWEEN 5-10m.
10. ALL TRANSFORMERS ARE FORTISALBERTA METERED. CONTRACTOR TO COORDINATE TERMINATIONS WITH FORTISALBERTA.
11. WATER LINES ARE INSTALLED AT A SHALLOW DEPTH. CONTRACTOR TO MAINTAIN MINIMUM HORIZONTAL SEPARATION AND CROSSING REQUIREMENTS.
12. CONTRACTOR TO TRANSITION FORTISALBERTA CONDUIT TO RPVC FOR ALL LOCATIONS CROSSING WATER LINES FOR 3m ON EITHER SIDE MAINTAINING MINIMUM SEPARATION REQUIREMENTS.
13. CONTRACTOR TO INSTALL ABOVE GRADE JUNCTION BOX COMPLETE WITH TERMINATION FOR FUTURE SERVICE.
14. CONTRACTOR TO LOCATE EXISTING CDP PANEL FOR NEW 100A SERVICE FEED AND RUN NEW CABLE TO BATHROOM. TERMINATE CABLE WITHIN EXISTING PANEL.
15. CONTRACTOR TO RELOCATE EXISTING RV PEDESTAL TO REVISED STALL LOCATION AS SHOWN. CONTRACTOR TO REUSE EXISTING WIRING.

KEY PLAN



LEGEND

- CDP CENTRAL DISTRIBUTION PANEL
- 240V 50A/ 120V 30A-15A RV PEDESTALS
- UNDERGROUND SECONDARY
- PRIMARY CABLE 102mm DB2 CONDUIT
- 102mm RPVC CONDUIT ROAD CROSSING
- POLE MOUNTED LUMINAIRE
- TRANSFORMER BASE/GROUNDING
- LUMINAIRE TYPE X (SEE FIXTURE SCHEDULE)



DATE Jun 22 17

PERMIT TO PRACTICE
AECOM CANADA LTD.

Signature: [Signature]

Date: Jun 23 17

PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

D	17-06-23	ISSUED FOR TENDER	EL	JR
C	17-03-27	ISSUED FOR 90% REVIEW	CKW	JR
B	16-01-31	ISSUED FOR 90% REVIEW	CKW	JR
A	15-10-08	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision	
A	numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Name Nom de l'expert-consult	Eng. Stamp Sceau de l'ingénieur
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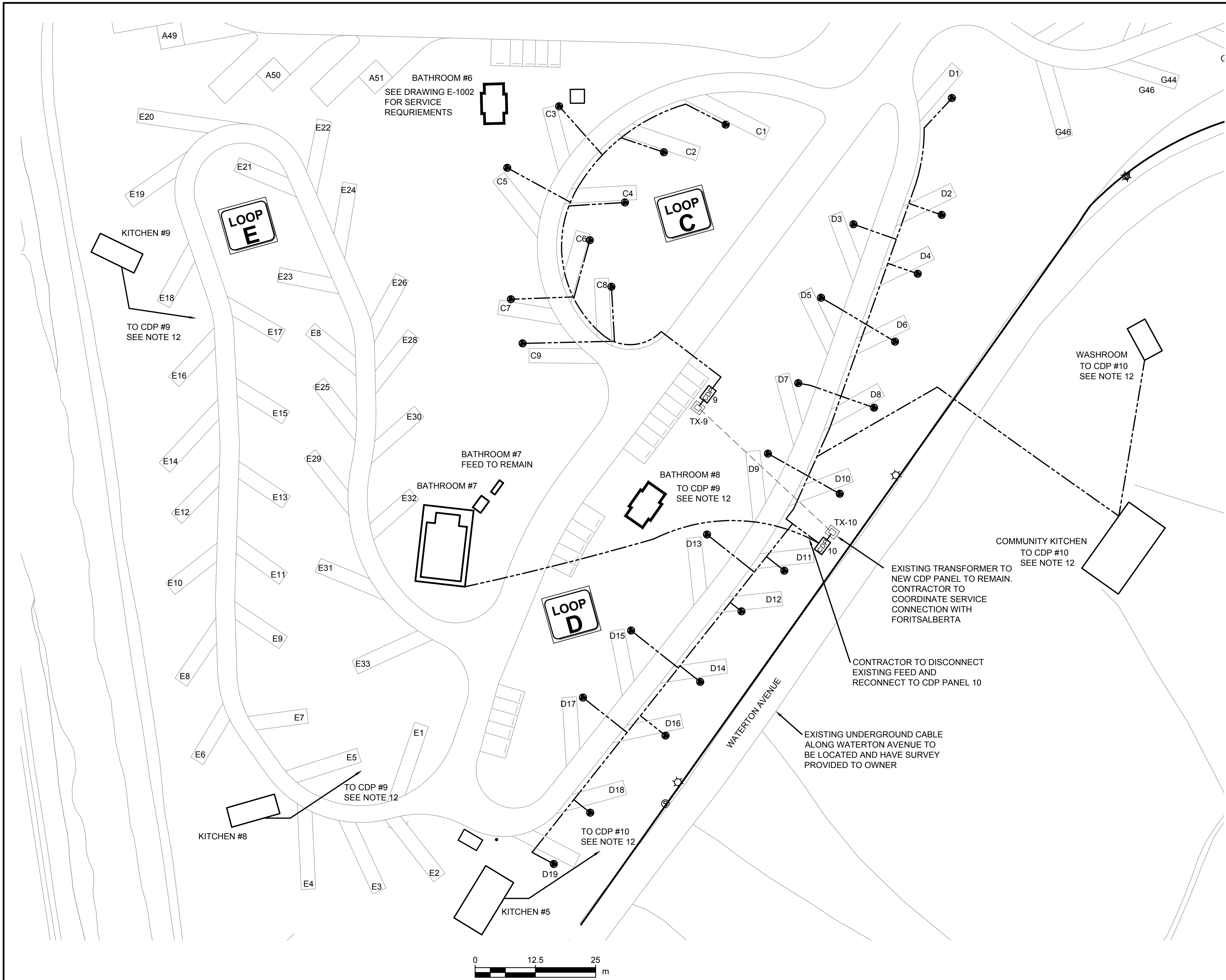


Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE CAMPGROUND IMPROVMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
ELECTRICAL POWER/LIGHTING PLAN

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par NC	Date/Date 2015-11-08
Designed by/Conçut par JR	Reviewed by/Revisé par BS	Scale/Echelle 500
PWOSC Project Manager/Administrateur de Projets TP50C		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Perk Responsible Officer/Agent Responsable	PWOSC Project Manager/Administrateur de Projets TP50C	
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./No. de la feuille 34 of 47
Drawing Reference No./No. de référence du dessin E-1003		



NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA LTD.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

GENERAL NOTES:

- INSTALLATION OF THE TRANSFORMER BASE, GROUNDING AND DUCTING MUST BE INSTALLED BY A FORTISALBERTA APPROVED INSTALLER. THE INSTALLATION WILL FOLLOW THE PARAMETERS OF THE FORTISALBERTA "CUSTOMER INSTALLED PRE-CAST BASE, GROUNDING AND DUCTING PROCESS". ALL INSTALLATIONS BE COORDINATED WITH THE FORTISALBERTA FIELD COORDINATOR. DUCTING TO BE UNDER THIS CONTRACT.
- FORTISALBERTA PRIMARY FACILITIES MUST MAINTAIN A MINIMUM OF 1.0m TO THE SECONDARY FACILITIES.
- ALL FORTISALBERTA DUCTING AND DETAILS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE DESIGN AND INSTALLATION WITH FORTISALBERTA.

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SYMBOLS SHOWN ARE NOT TO SCALE. LOCATIONS SHOWN REFLECT THE DESIGN INTENT AND MUST BE COORDINATED WITH ALL OTHER TRADES.
- CABLING SHOWN INDICATES GENERAL ARRANGEMENT ONLY AND DOES NOT REFLECT TRENCH LOCATION, HOWEVER THE LOCATION SHOWN REPRESENTS THE BEST UNDERSTANDING OF MINIMAL CONFLICTS. A SEPARATE TRENCH WILL BE UTILIZED FOR PRIMARY AND SECONDARY CABLING. CONTRACTOR TO ENSURE ALL MINIMUM SEPARATION REQUIREMENTS ARE ACHIEVED AS PER CEC AND FORTISALBERTA GUIDELINES. WHERE POSSIBLE, TRENCHING ROUTES MAY BE MODIFIED UNDER THE DISCRETION OF THE APPROVED DEPARTMENTAL REPRESENTATIVE TO MINIMIZE TREE REMOVAL.
- CONTRACTOR TO INSTALL NEW RV PEDESTALS AT LOCATIONS AS SHOWN. INSTALLATION SHALL BE COMPLETE WITH WIRING; ALL WIRING TERMINATIONS SHALL BE INSIDE THE PEDESTALS. REFER TO DETAILS FOR EXACT OFFSETS.
- CONTRACTOR TO INSTALL CENTRAL DISTRIBUTION PANELS (CDP) AND TERMINATE SECONDARY CABLES INSIDE THE CDP'S. CABLE TERMINATIONS INTO FORTISALBERTA TRANSFORMERS TO BE COORDINATED WITH FORTISALBERTA.
- NEW TYPE A STREET LIGHTS ARE FED FROM NEW CDP PANEL AS INDICATED ON PLAN AND SINGLE LINE DIAGRAM. STREET LIGHTS TO MAINTAIN A MINIMUM OF 1.0m FROM EDGE OF ROAD. NEW TYPE BOLLARD LIGHTS ARE ALSO FED FROM NEW CDP PANEL. BOLLARDS ARE MOUNTED 0.5m FROM EDGE OF PATH.
- CONTRACTOR TO INSTALL PRE-CAST CONCRETE BASE AND ASSOCIATED GROUNDING ALONG WITH CONDUIT FOR ALL UTILITY TRANSFORMERS PER FORTISALBERTA GUIDELINES. ALL INSTALLATIONS MUST BE INSPECTED BY AND INSTALLATIONS COORDINATED WITH FORTISALBERTA.
- CONTRACTOR TO RUN NEW CONDUIT STUB AND SERVICE FEEDS TO KITCHEN #5, KITCHEN #8, BATHROOM #5 AND KITCHEN # 9 FACILITIES AND TERMINATE INTO EXISTING ELECTRICAL PANEL. CONTRACTOR TO DETERMINE THE BEST ROUTE FROM SOURCE POINT TO MINIMIZE DISTURBANCE TO INFRASTRUCTURE AND LANDSCAPING NOT AFFECTED UNDER THIS SCOPE OF WORK.
- EXACT LOCATION OF CDP PANELS TO BE DETERMINED ON SITE MAINTAINING MINIMUM DISTANCE REQUIREMENTS TO THE FORTISALBERTA TRANSFORMER BASES. DISTANCE BETWEEN CDP PANEL AND TRANSFORMER TO BE BETWEEN 5-10m.
- ALL TRANSFORMERS ARE FORTISALBERTA METERED. CONTRACTOR TO COORDINATE TERMINATIONS WITH FORTISALBERTA.
- WATER LINES ARE INSTALLED AT A SHALLOW DEPTH. CONTRACTOR TO MAINTAIN MINIMUM HORIZONTAL SEPARATION REQUIREMENTS AND CROSSING REQUIREMENTS.
- CONTRACTOR TO RUN NEW CABLE FEED TO THE COMMUNITY KITCHEN FOLLOWING THE SAME ALIGNMENT AS THE EXISTING FEED. WASHROOM SERVICE TO BE SUB FED FROM THE COMMUNITY KITCHEN LOCATION. REFER TO SINGLE LINE DIAGRAM FOR CABLE SIZES. DISTANCE FROM CDP TO LOAD NOT TO EXCEED 144m.

LEGEND

- CDP CENTRAL DISTRIBUTION PANEL
- 240V 50A/ 120V 30A-15A RV PEDESTALS
- UNDERGROUND SECONDARY
- PRIMARY CABLE 102mm DB2 CONDUIT
- TRANSFORMER BASE/GROUNDING

DATE Jun 22 17

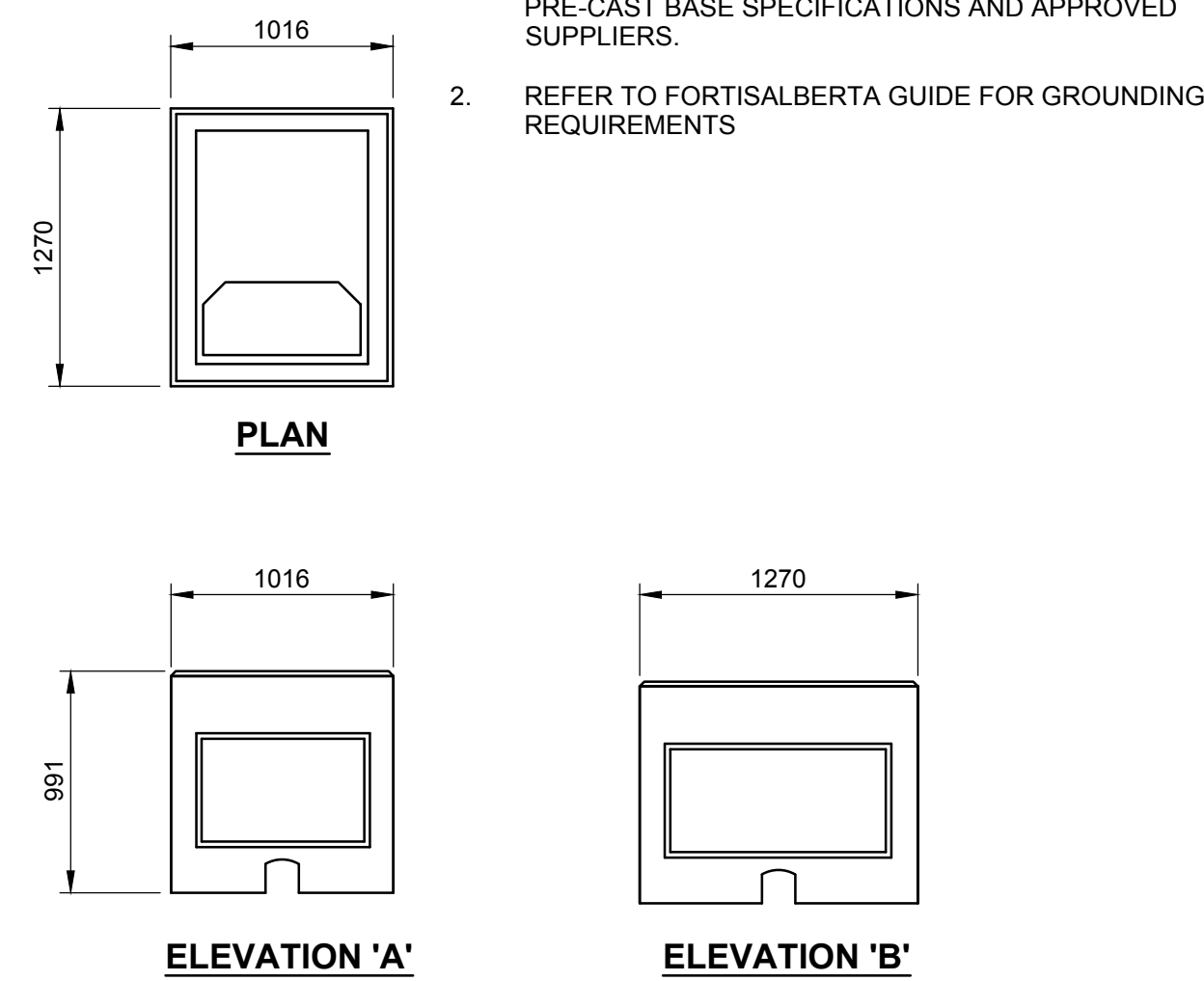
PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: [Signature]
Date: Jun 23 17
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

D	17-06-23	ISSUED FOR TENDER	EL	JR
C	17-03-27	ISSUED FOR 95% REVIEW	CKW	BR
B	16-01-19	ISSUED FOR 90% REVIEW	CKW	JR
A	15-10-08	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Designé par	Approved Approuvé
Revision / Revision				
A detail number numéro de détail				
B source drawing no. de dessin no.				
C detail on drawing no. détail sur dessin no.				
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	
AECOM				
Canada				
Client/client Parks Canada Agency			L'Agence Parcs Canada	
Western and Northern Region			Ouest et Nord du Canada	
Project title/Titre du dessin WATERTON TOWNSITE CAMPGROUND IMPROVEMENTS FII PROJECT NO. 943				
Drawing title/Titre du dessin ELECTRICAL LOOP 'C, D, & E'				
Surveyed by/Arpenté par AECOM		Drawn by/Designé par NC		Date/Date 2015-11-08
Designed by/Conçut par JR		Reviewed by/Revisé par RS		Scale/Echelle 500
PWOSC Project Manager/Administrateur de Projets TP500 -				
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Part Responsible Officer/Agent Responsable				
Project No./No. du projet 60432200		Asset No./No. du-bien -		Sheet No./No. de la feuille 36 of 47
Drawing Reference No./No. de référence du dessin E-1004				

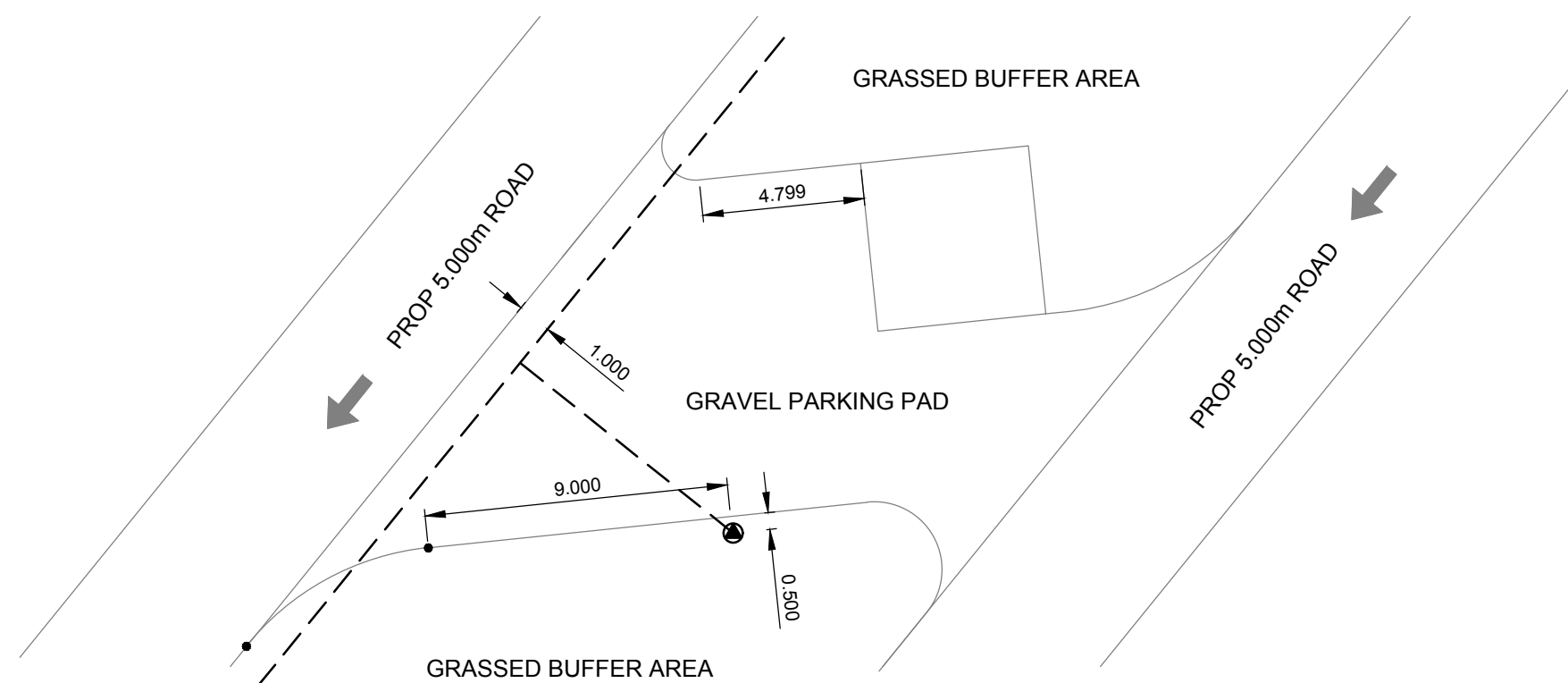
QTY	DESCRIPTION	QTY	DESCRIPTION
1	WP MAIN DISTRIBUTION CENTRE		MAIN LUGGS ONLY IN PANEL
	SERVICE ENTRANCE RATED		800A 240V 2P 1PH BREAKER
	800A, 120/240V, 1PH, 3W		800A, 120/240V, 1PH, 3W
	RATED 65KAC @240V		800A FRAME 800A TRIP
	EMEC 3R ENCLOSURE		OPEN BOTTOM WITH INNER FLANGE
	CUSTOM RAL POWDER PAINT FINISH		FREE STANDING ENCLOSURE
	72" H X 44" W X 14" DEEP		20 B2100H BRANCH BREAKERS
	DOUBLE HINGED DOORS ON FRONT		SAFETY "CORNERFORM" DRIPHOOD
	ONE 3 POINT PADLOCKABLE HANDLE		10 4/0 AWG INTERPOSING TERMINALS
	66cct, 800A, 120/240V, 1PH, 3W		FACTORY ASSEMBLED AND WIRED
	SIEMENS P3 PANEL FACTORY INSTALL		CSA CERTIFIED ASSEMBLY

MODEL #	DIMENSIONS (H x W x D)	PHASE	WIRE	AMPS	VOLTS	CIRCUITS
AC DANDY PDC-F2-3A-SP	1828 x 1473 x 355	1	3	800	120/240	40

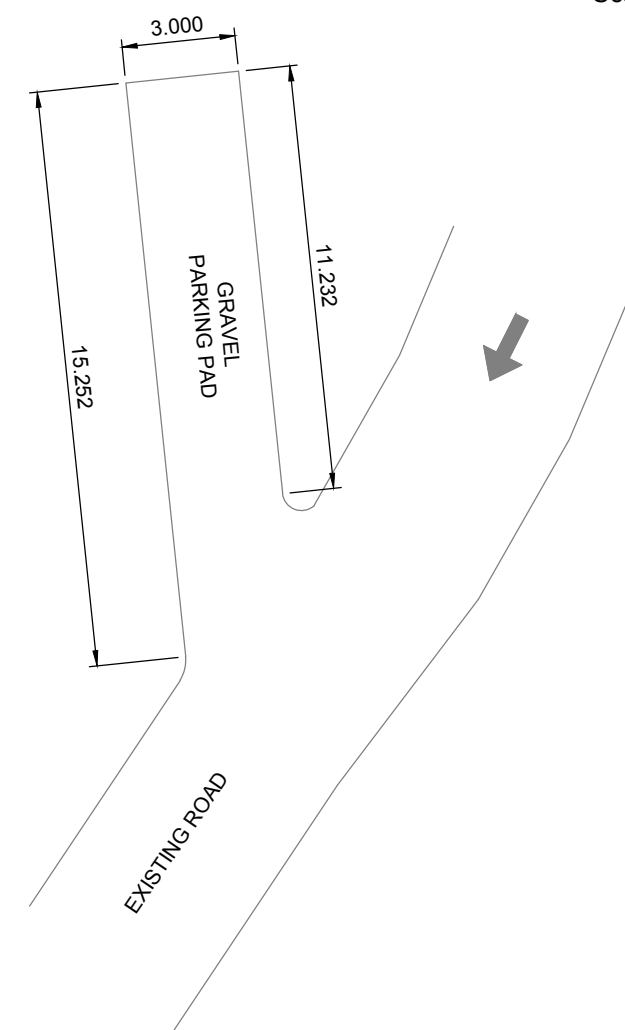
APPROVED ALTERNATE WILL BE CONSIDERED



PRECAST CONC. BASE FOR 1 PHASE TRANSFORMER



TYPICAL PULL THROUGH SITE DETAIL

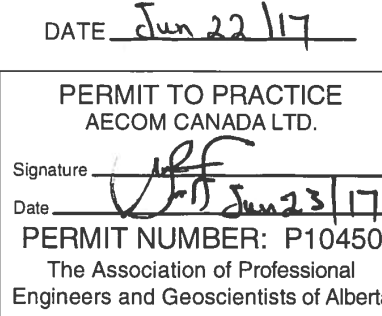


TYPICAL ADD-IN & EXTENDED SITE DETAIL



Scale 1:200

Scale 1:200

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. FORTISALBERTA DETAILS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE DESIGN AND INSTALLATION WITH FORTISALBERTA.



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A	15-10-06	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
	<p>A detail number numéro de détail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no. détail sur dessin no.</p>
	

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

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	Western and Northern Region	Ouest et Nord du Canada

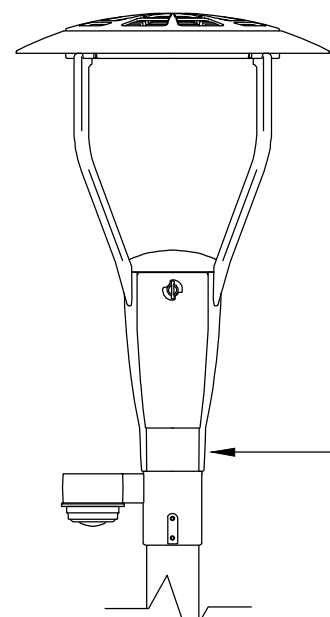
Project Title/Titre du projet

WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

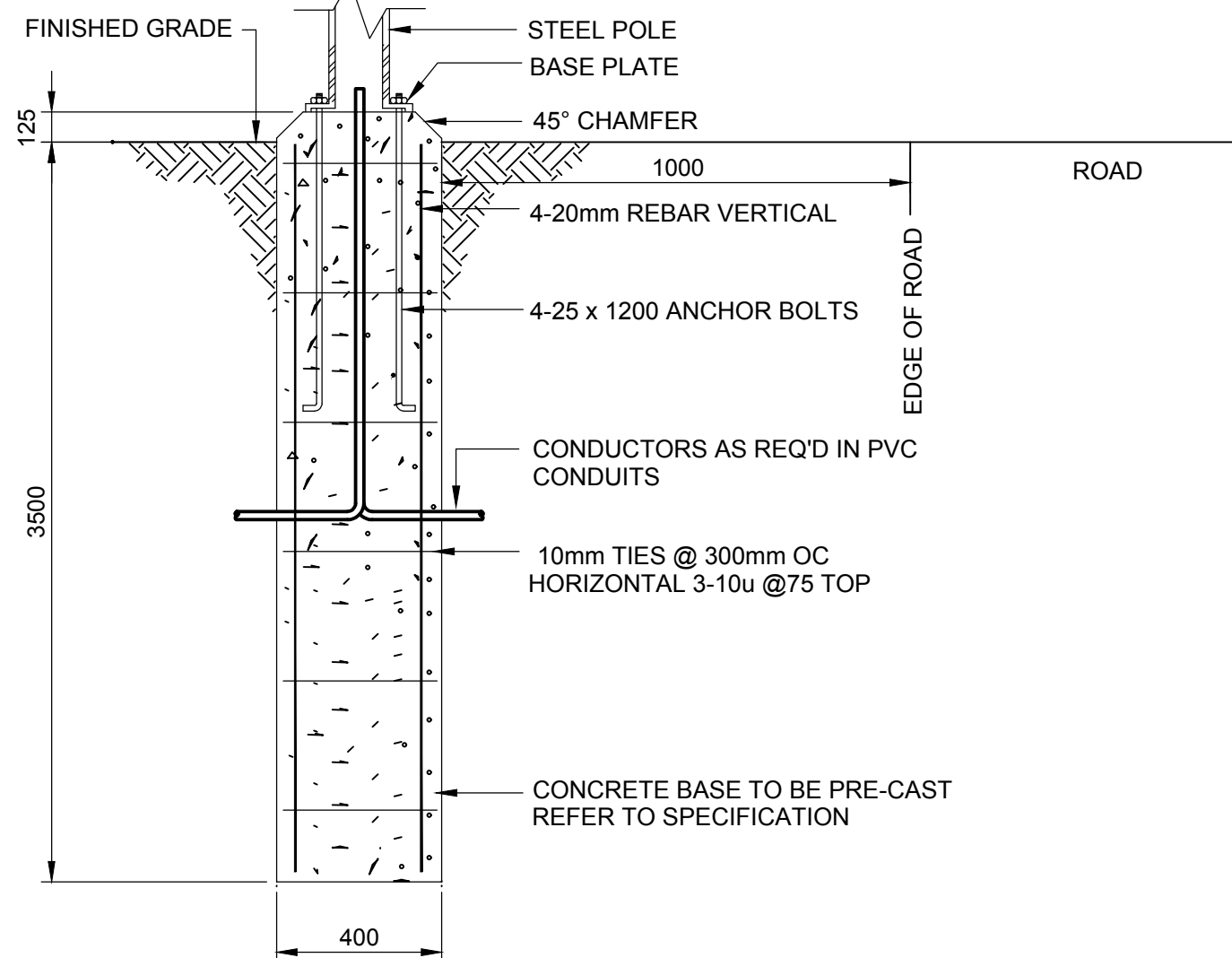
Drawing title/Titre du dessin

ELECTRICAL
DETAILS SHEET #1

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par NC	Date/Date 2015-10-04
Designed by/Concepté par JR	Reviewed by/Revisé par BS	Scale/Echelle AS SHOWN
PWOSC Project Manager/Administrateur de Projets TPGSC		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsibility Officer/Agent Responsabilité		PWOSC Project Manager/Administrateur de Projets TPGSC
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille 36 of 47
Drawing Reference No./No. de référence du dessin		

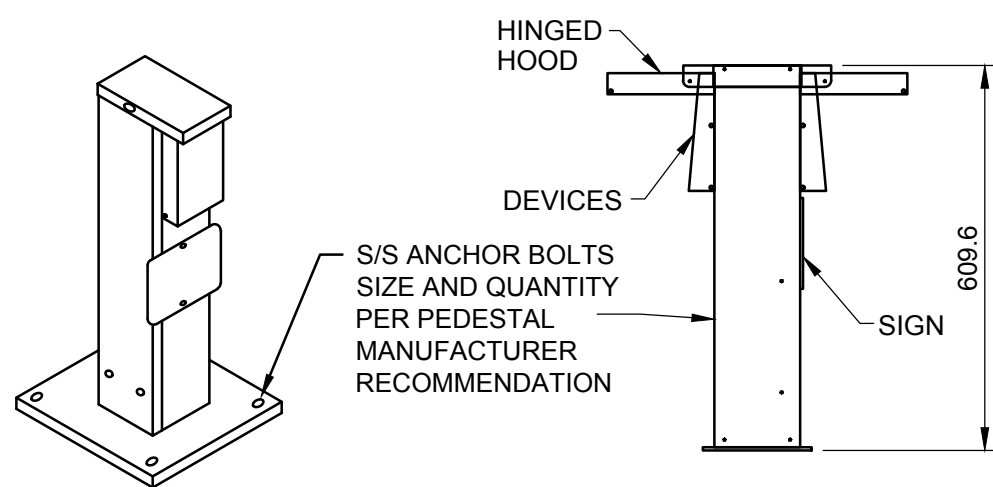


SEE LUMINAIRE SCHEDULE
FOR POLE AND FIXTURE TYPE



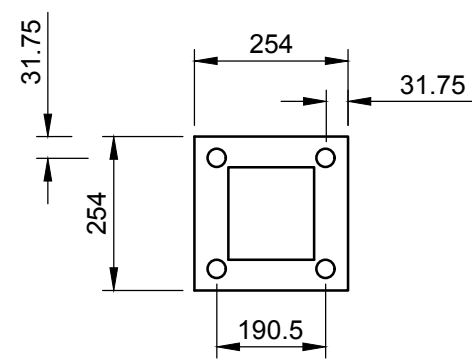
LIGHT BASE STANDARD

SCALE: NTS
TYPICAL

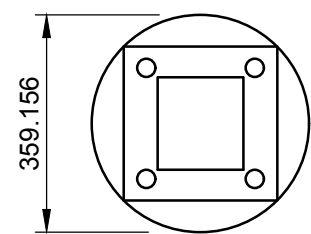


PEDESTAL VIEW

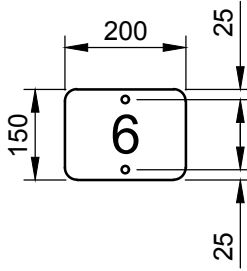
FRONT VIEW
WITH COVER



EXTERIOR FLANGE BASE
TEMPLATE DETAIL



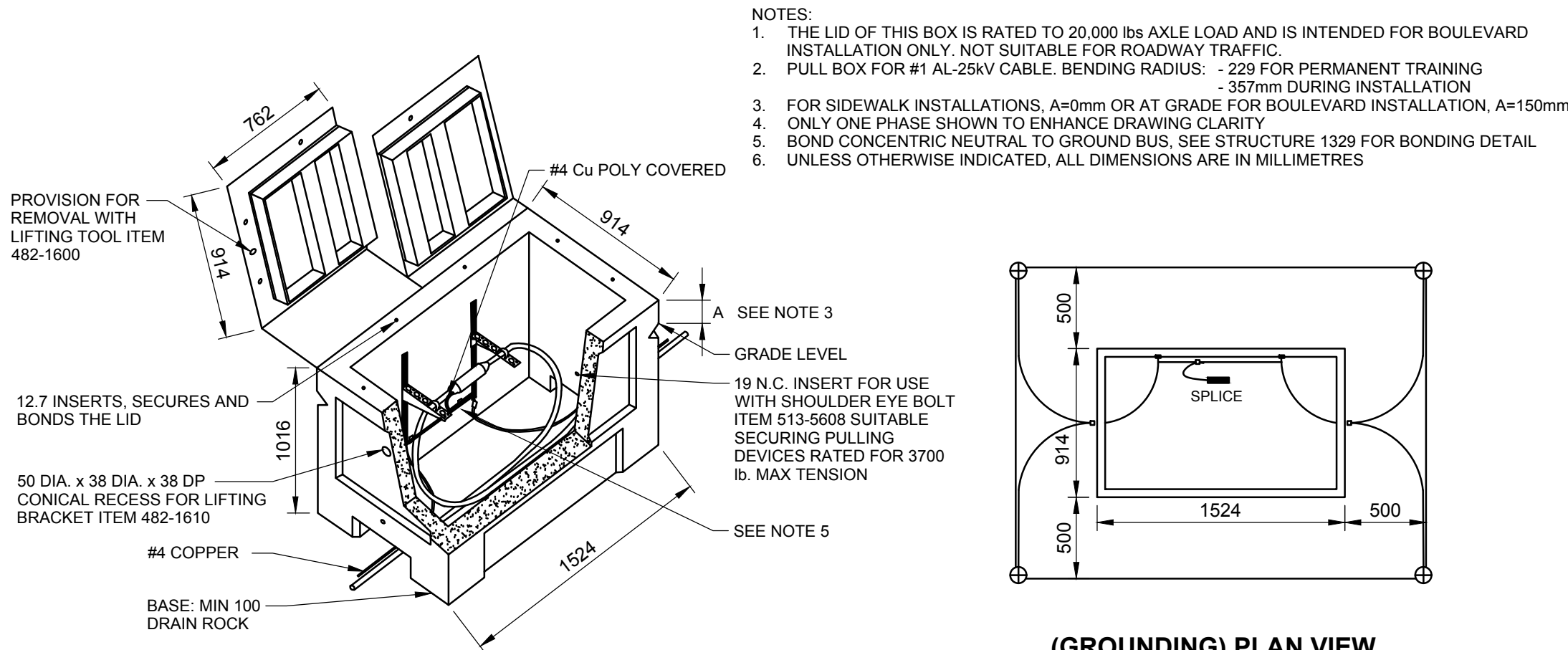
EXTERIOR FLANGE BASE
CIRCLE DIAMETER



SINGLE-SIDED EXTERIOR SIGN

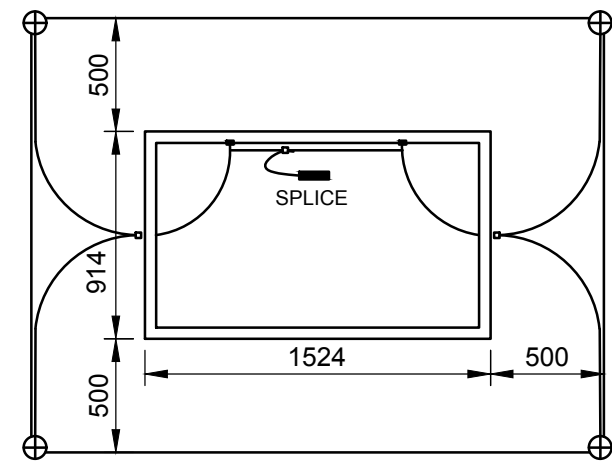
RECREATIONAL POWER PEDESTAL

SCALE: NTS
TYPICAL

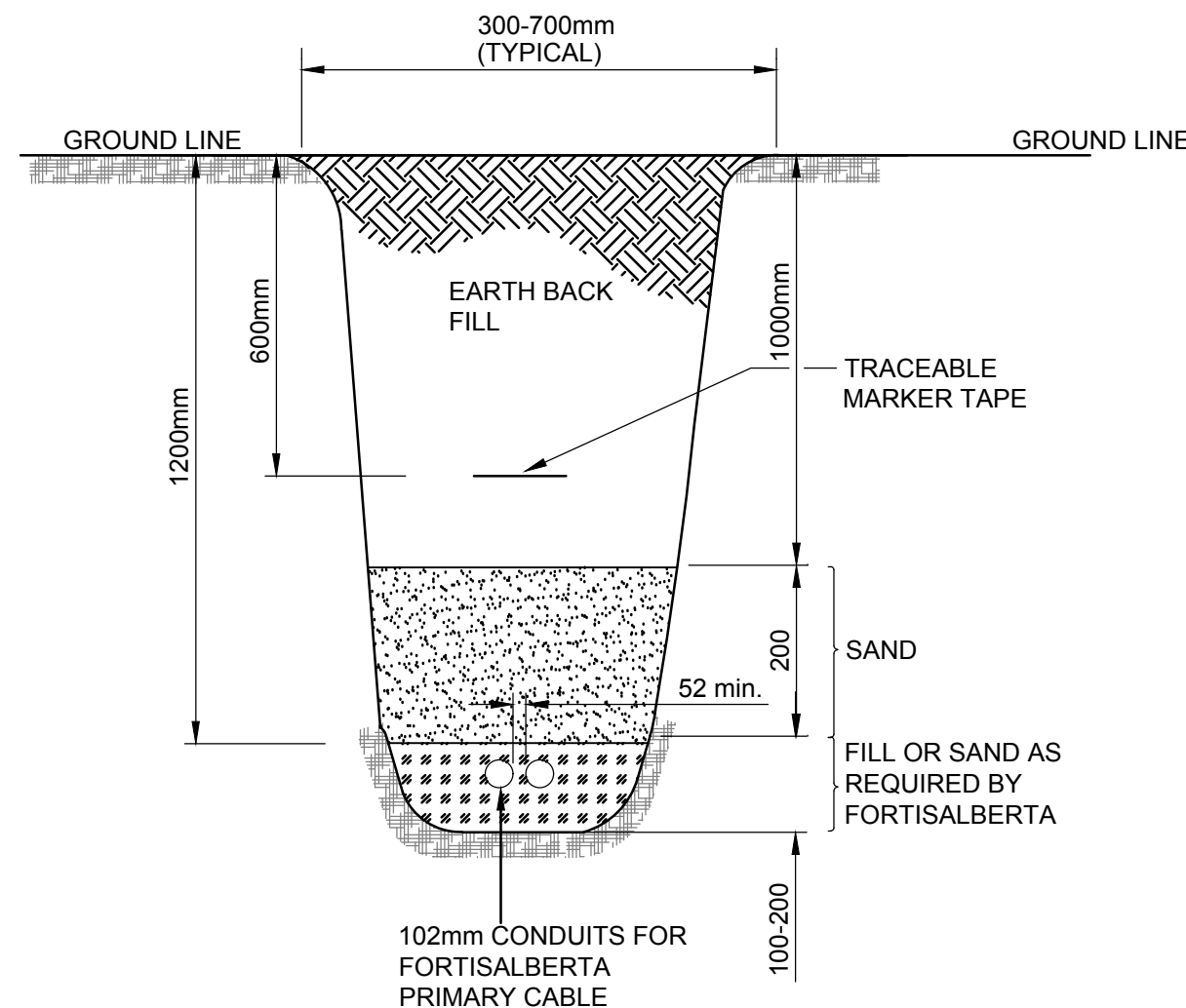


FORTIS ALBERTA PULL BOX

SCALE: NTS
TYPICAL FORTISALBERTA PULL BOX (IF REQUIRED)
DETAIL IS SHOWN FOR REFERENCE ONLY

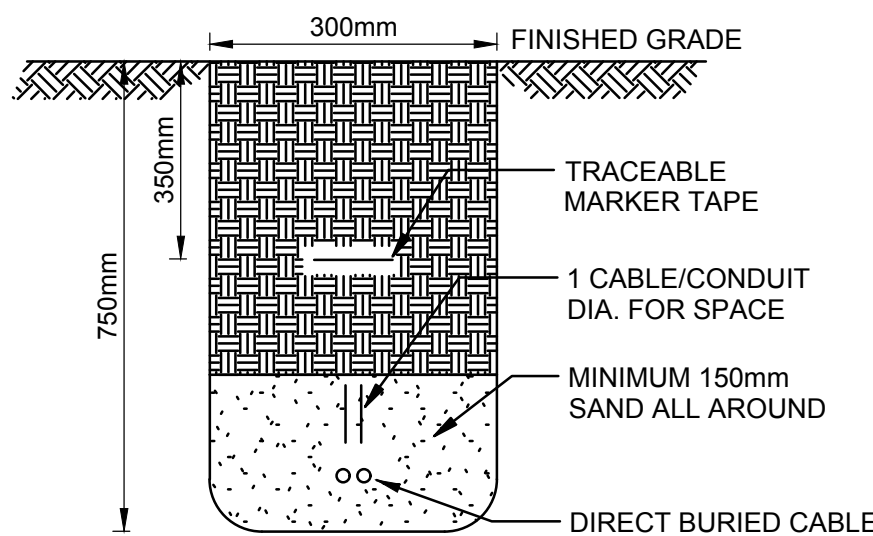


(GROUNDING) PLAN VIEW



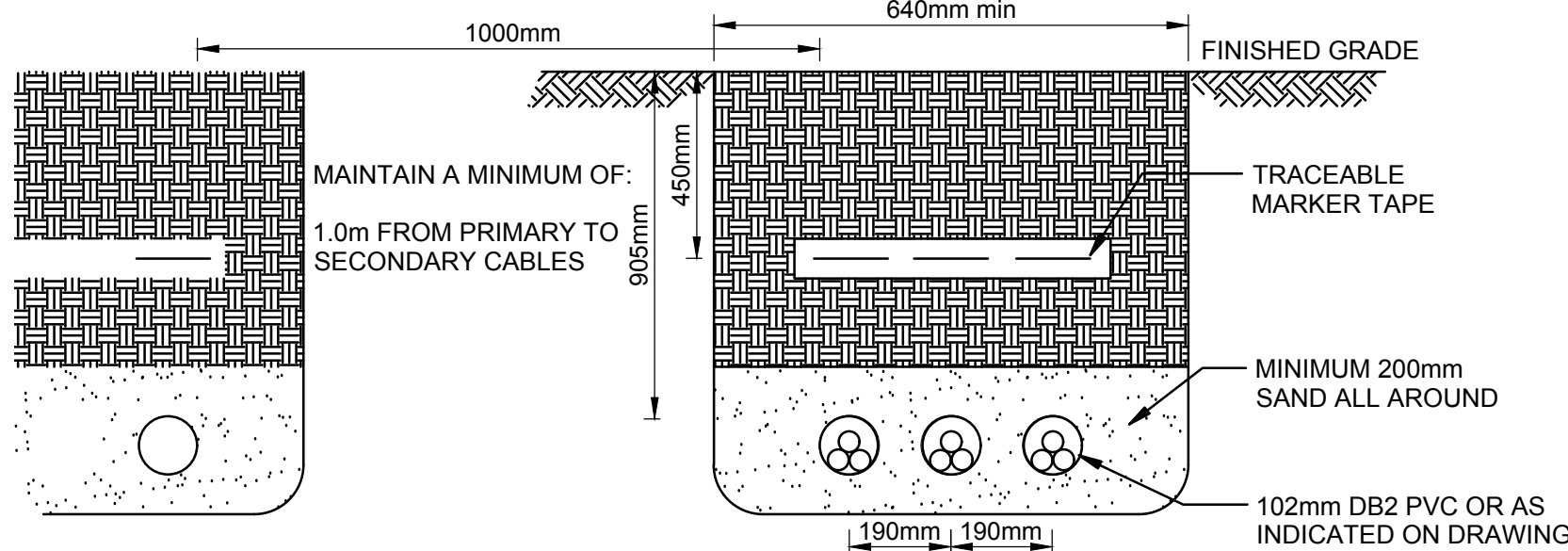
TRENCH

SCALE: NTS
TYPICAL FOR THE PRIMARY MV FEED CONDUITS
DETAIL IS SHOWN FOR REFERENCE ONLY



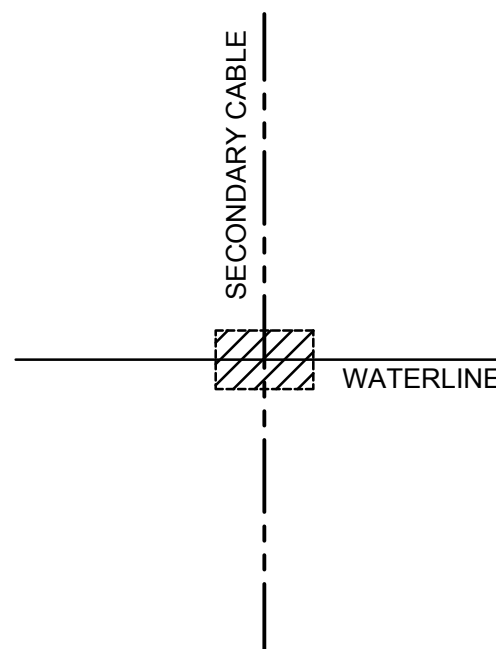
TRENCH

SCALE: NTS
TYPICAL FOR DIRECT BURIED BRANCH CABLE



TRENCH

SCALE: NTS
TYPICAL FOR TRANSFORMER TO CDP SECONDARY CABLES



GENERAL CROSSING DETAIL

- CONTRACTOR TO PROVIDE MECHANICAL PROTECTION AT LOCATIONS WHERE SECONDARY CABLE / PRIMARY CONDUIT CROSSES WITH WATER LINE

GENERAL NOTES:

- ALL FIXTURES MUST MEET THE INTERNATIONAL DARK SKY ASSOCIATION CRITERIA:
- MUST USE A FULLY SHIELDED FIXTURES THAT EMIT NO LIGHT UPWARD
- USE "WARM-WHITE" OR FILTERED LEDS (CCT < 3,000 K; S/P RATIO < 1.2) TO MINIMIZE BLUE EMISSION
- MUST INCLUDE ADAPTIVE CONTROLS LIKE DIMMERS, TIMERS, AND MOTION SENSORS
- CONSIDER DIMMING OR TURNING OFF THE LIGHTS DURING OVERNIGHT HOURS
- AVOID THE TEMPTATION TO OVER-LIGHT BECAUSE OF THE HIGHER LUMINOUS EFFICIENCY OF LEDS.
- ONLY LIGHT THE EXACT SPACE AND IN THE AMOUNT REQUIRED FOR PARTICULAR TASKS

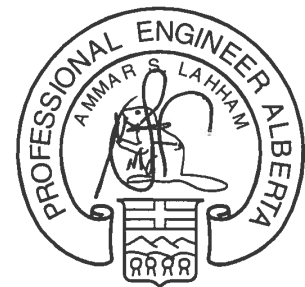
LUMINAIRE SCHEDULE			
TYPE	VOLTAGE/LAMP	MANUFACTURER	REMARKS
A	120 - LED	CYCLONE LUMINAIRE - CLE17T4B-FGC-DIST-WATT-1800K-VOLT-COLOR- TX-CP POLE - SPS4V-20-BKTX	LUMINAIRE - CUPOLA: DECORATIVE SPUN ALUMINUM 1100-0, MECHANICALLY MOUNTED ON HOOD;HOOD CAST 356 ALUMINUM DOME;LENS-SODA LIME CLEAR TEMPERED GLASS LENS; TYPE 3 OPTICS COMPLETE WITH HOUSE SHIELD AND PHOTOCELL-OUTDOOR DARK SKY COMPLIANT 1800 K COLOUR TEMPERATURE - DIMMER CAPABILITY POLE- 20" ROUND STEEL POLE - 2 PIECE SQUARE BASE COVER - BLACK TEXTURED FINISH
B	120 - LED	EATON BOLLARD - 303-B1-LEDB1-1800-120-T2-DIMELV BK-36-PC1	LUMINAIRE - LED BOLLARD: DOWNWARD LIGHT ONLY. IP66 RATING. DARK BRONZE. 1800K COLOR TEMPERATURE AND 36 INCH HEIGHT. PHOTOCELL-OUTDOOR DARK SKY COMPLIANT - TYPE II, LATERAL THROW
C	120 - LED	EATON BOLLARD - 303-B1-LEDB1-1800-120-T4-DIMELV BK-36-PC1	LUMINAIRE - LED BOLLARD: DOWNWARD LIGHT ONLY. IP66 RATING. DARK BRONZE. 1800K COLOR TEMPERATURE AND 36 INCH HEIGHT. PHOTOCELL-OUTDOOR DARK SKY COMPLIANT - TYPE IV, FORWARD THROW

APPROVED EQUIVALENT SUPPLIERS OF FIXTURE AND POLE WILL BE CONSIDERED.

GENERAL NOTES

BACKFILL COMPACTION NOTES:

- IN VEHICULAR AREA - (ROAD CROSSINGS, VEHICLE PADS, PARKING AREAS) COMPACTION OF BACKFILL MATERIAL SHALL BE 98% PROCTOR.
- IN NON-VEHICULAR AREAS COMPACTION OF BACKFILL MATERIAL SHALL BE 95% PROCTOR.
- BACKFILL MATERIAL SHALL CONFORM TO SECTION 31 22 33.01. THE CONTRACTOR IS TO DETERMINE WHICH BACKFILL MATERIAL WILL BE SUITABLE TO MEET THE COMPACTION REQUIREMENTS - EXCAVATED MATERIAL, IMPORTED MATERIAL OR OTHER.



DATE Jun 22 2017

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Date: Jun 23 2017
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C	17-03-27	ISSUED FOR 95% REVIEW	NC	JR
B	16-01-19	ISSUED FOR 90% REVIEW	NC	JR
A	15-10-08	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Designé par	Approved Approuvé
Revision / Revision				
A detail number numéro de détail				
B source drawing no. de dessin no.				
C detail on drawing no. détail sur dessin no.				

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

Canada

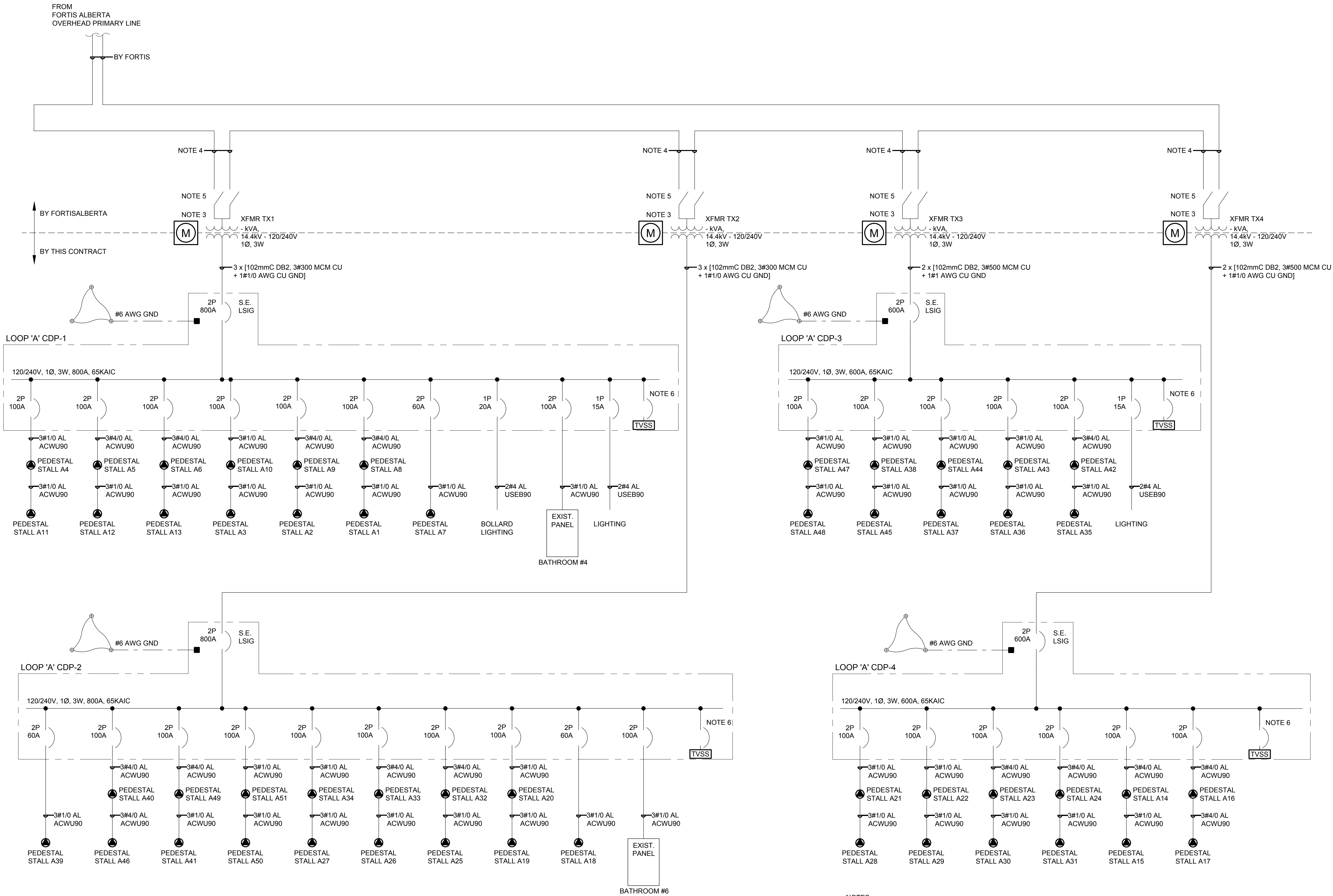
Client/client Nom de l'expert-conseil	Parks Canada Agence	L'Agence Parcs Canada
Western and Northern Region		Ouest et Nord du Canada

Project title/Titre du projet
WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

Drawing title/Titre du dessin

ELECTRICAL
DETAILS SHEET #2

Surveyed by/Arpenté par AECOM	Drawn by/Designé par NC	Date/Date 2015-10-04
Designed by/Conçu par JR	Reviewed by/Revisé par RS	Scale/Echelle AS SHOWN
PWOSC Project Manager/Administrateur de Projets TP500 -		
Client Acceptance/Acceptation du client Approved by/Approuvé par		
Perk Responsible Officer/Agent Responsable	PWOSC Project Manager/Administrateur de Projets TP500	
Project No./No. du projet 60432200	Asset No./No. du-bien -	Sheet No./ No. de la feuille 37 of 47
Drawing Reference No./No. de référence du dessin E-1006		



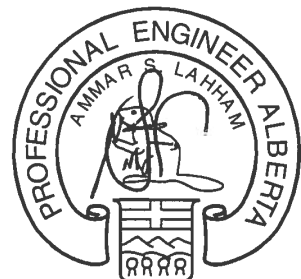
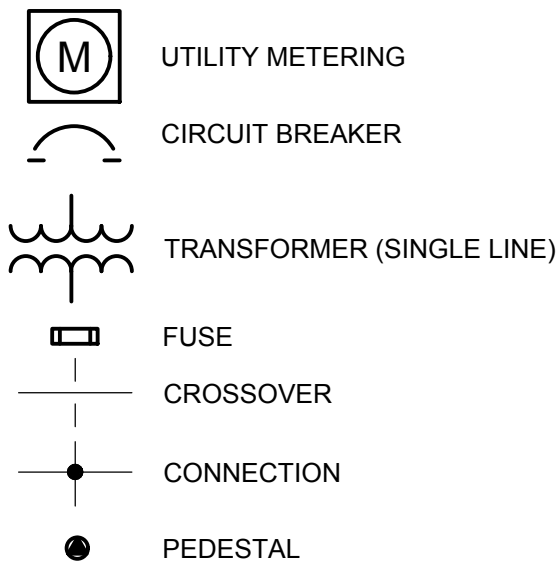
PARTIAL SINGLE LINE DIAGRAM - LOOP 'A'

Scale: No Scale

NOTES:

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- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SYMBOLS SHOWN ARE NOT TO SCALE. LOCATIONS SHOWN REFLECT THE DESIGN INTENT AND MUST BE CO-ORDINATED WITH ALL OTHER TRADES. REFER TO CIVIL DRAWINGS FOR DIMENSIONS AND SCALED LOCATIONS OF BUILDINGS, PARK ELEMENTS, SIZES AND EQUIPMENT.
- FORTISALBERTA WILL SUPPLY AND INSTALL TRANSFORMERS, TRANSFORMER-MOUNTED METERING. CONTRACTOR TO SUPPLY AND INSTALL TRANSFORMER BASE, GROUNDING AND DUCTING AS PER FORTISALBERTA REQUIREMENTS. PRIMARY CONDUITS AND TRANSFORMER BASES BY THE CONTRACTOR.
- SUPPLY AND INSTALL NEW 102mm DB2 PVC CONDUIT COMPLETE WITH TRENCHING AND BACKFILLING. CONDUIT SHALL BE COMPLETE WITH APPROVED PULL STRING. FORTISALBERTA WILL SUPPLY, INSTALL AND TERMINATE THE MEDIUM VOLTAGE PRIMARY CABLES.
- ALTHOUGH SHOWN ON THIS DRAWING, DISCONNECT TYPE, SIZE, AND LOCATION IS BY FORTISALBERTA.
- CIRCUIT BREAKER SHALL BE SIZED BY THE SUPPLIER ACCORDING TO TVSS MANUFACTURER'S RECOMMENDATIONS.

LEGEND:



DATE Jun 22 17

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Signature: [Signature]
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No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé

Revision / Revision

A	detail number	A
B	source drawing no.	B
C	detail on drawing no.	C

Consultant's Name
Nom de l'expert-consultant

AECOM

Eng. Stamp
Sceau de l'ingénieur

Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

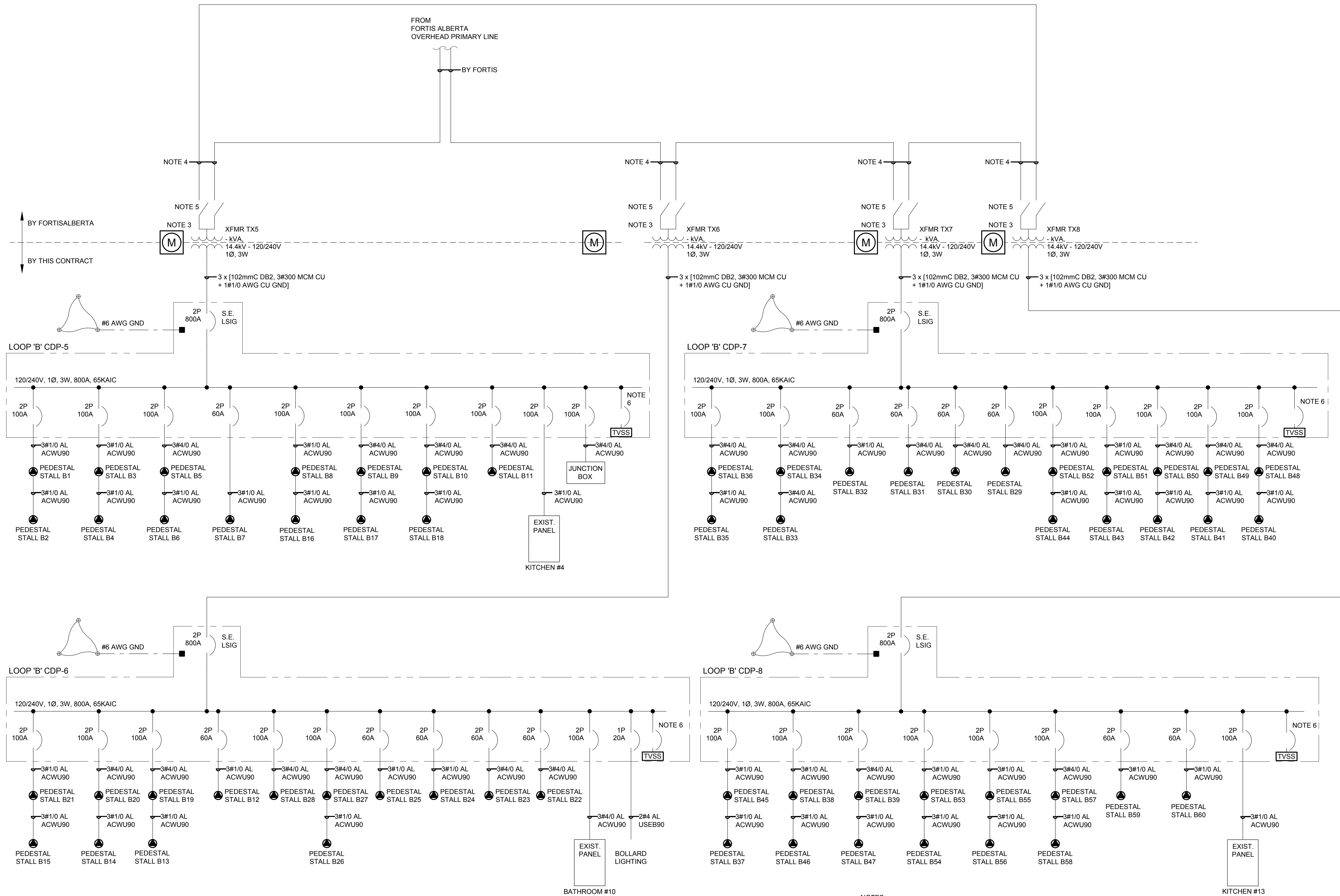
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**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin

**ELECTRICAL SINGLE LINE
DIAGRAM LOOP 'A'**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par CKW	Date/Date 2015-11-06
Designed by/Conçu par JR	Reviewed by/Revisé par RS	Scale/Echelle -
PWOSC Project Manager/Administrateur de Projets TP500 -		
Client Acceptance/Acceptation du client Approved by/Approuvé par -		
Perk Responsible Officer/Agent Responsable PWOSC Project Manager/Administrateur de Projets TP500		
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./No. de la feuille 38 of 47
Drawing Reference No./No. de référence du dessin E-1007		

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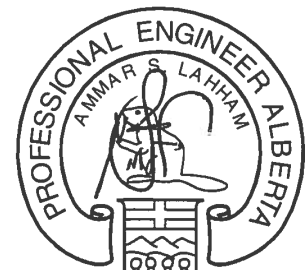
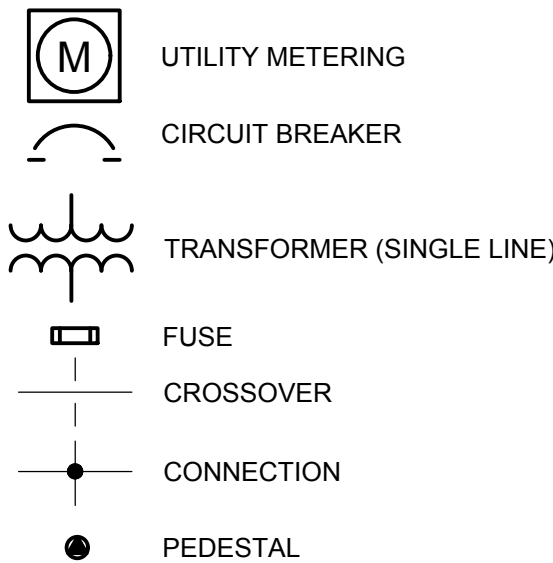
PARTIAL SINGLE LINE DIAGRAM - LOOP 'B'

Scale: No Scale

NOTES:

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- SUPPLY AND INSTALL NEW 102mm DB2 PVC CONDUIT COMPLETE WITH TRENCHING AND BACKFILLING. CONDUIT SHALL BE COMPLETE WITH APPROVED PULL STRING. FORTISALBERTA WILL SUPPLY, INSTALL AND TERMINATE THE MEDIUM VOLTAGE PRIMARY CABLES.
- ALTHOUGH SHOWN ON THIS DRAWING, DISCONNECT TYPE, SIZE, AND LOCATION IS BY FORTISALBERTA.
- CIRCUIT BREAKER SHALL BE SIZED BY THE SUPPLIER ACCORDING TO TVSS MANUFACTURER'S RECOMMENDATIONS.

LEGEND:



DATE: Jun 22 17

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AECOM CANADA LTD.
Signature: [Signature]
Date: Jun 23 17
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

D	17-06-23	ISSUED FOR TENDER	EL	JR
C	17-03-27	ISSUED FOR 90% REVIEW	CKW	JR
B	16-01-19	ISSUED FOR 90% REVIEW	CKW	JR
A	15-10-08	ISSUED FOR 60% REVIEW	NC	JR
No.	Date/Date	Description/Description	Drawn by Designé par	Approved Approuvé

Revision / Revision	
A detail number numéro de détail	A
B source drawing no. de dessin no.	B
C detail on drawing no. détail sur dessin no.	C

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



Client/client	Parks Canada Agence	L'Agence Parcs Canada
Western and Northern Region		Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin

ELECTRICAL SINGLE LINE DIAGRAM LOOP 'B'

Surveyed by/Arpenté par AECOM	Drawn by/Designé par CKW	Date/Date 2015-11-08
Designed by/Conçu par JR	Reviewed by/Revisé par BS	Scale/Echelle -

PWOSC Project Manager/Administrateur de Projets TP500

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Perk Responsible Officer/Agent Responsable

Project No./No. du projet

Asset No./No. du bien

Sheet No./No. de la feuille

Drawing Reference No./No. de référence du dessin

E-1008

39 of 47

PANEL # : PANEL CDP-1										LOCATION : LOOP A - EAST																			
VOLTAGE : 120/240 VOLTS										1 -PHASE 3-WIRE 65 KAIC S.E.																			
MAIN DISCONNECT : <input type="checkbox"/> LUGS										<input type="checkbox"/> SWITCH AMPS. <input checked="" type="checkbox"/> BREAKER 800 AMPS.																			
BUS RATING : 800 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS																			
AMPS		CIRCUIT DESCRIPTION										BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION										AMPS	
80		PEDESTAL A4, A11										100A		1	2	100A		PEDESTAL A9, A2										80	
	80											2P		3	4	2P													80
80		PEDESTAL A5, A12										100A		5	6	100A		PEDESTAL A8, A1										80	
	80											2P		7	8	2P													80
80		PEDESTAL A6, A13										100A		9	10	60A		PEDESTAL A7										40	
	80											2P		11	12	2P													40
80		PEDESTAL A10, A3										100A		13	14			SPACE										-	
	80											2P		15	16														-
-		SPACE											17	18			SPACE										-		
	-												19	20														-	
15		BOLLARD LIGHTING										20A		21	22	15A		LIGHTING										12	
	-	TVSS										1P		23	24	1P													-
80		BATHROOM #4										100A		25	26													-	
	80											2P		27	28														-
-													29	30													-		
415	400	SUB TOTAL LEFT															SUB TOTAL RIGHT										212	200	
															TOTAL CONNECTED LOAD										627	600			

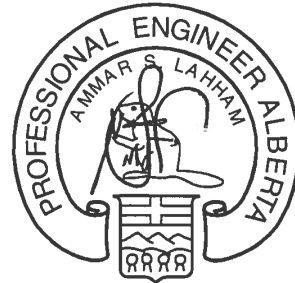
PANEL # : PANEL CDP-3										LOCATION : LOOP A - WEST															
VOLTAGE : 120/240 VOLTS										1 -PHASE 3-WIRE 65 KAIC S.E.															
MAIN DISCONNECT : <input type="checkbox"/> LUGS <input type="checkbox"/> SWITCH AMPS.										<input checked="" type="checkbox"/> BREAKER 600 AMPS.															
BUS RATING : 600 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS															
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS	
80		PEDESTAL A47, A48								100A	1	2	100A	PEDESTAL A43, A36								80			
	80									2P	3	4	2P										80		
80		PEDESTAL A38, A45								100A	5	6	100A	PEDESTAL A42, A35								80			
	80									2P	7	8	2P										80		
80		PEDESTAL A44, A37								100A	9	10		TVSS								-			
	80									2P	11	12	15A									1P		12	
-											13	14										-			
	-										15	16											-		
-											17	18										-			
	-										19	20											-		
-											21	22										-			
	-										23	24											-		
-											25	26										-			
	-										27	28											-		
-											29	30										-			
240	240	SUB TOTAL LEFT												SUB TOTAL RIGHT								160	172		
										TOTAL CONNECTED LOAD										400	412				

PANEL # : PANEL CDP-2										LOCATION : LOOP A - SOUTH															
VOLTAGE : 120/240 VOLTS										1-PHASE 3-WIRE 65 KAIC S.E.															
MAIN DISCONNECT : <input type="checkbox"/> LUGS <input type="checkbox"/> SWITCH AMPS.										<input checked="" type="checkbox"/> BREAKER 800 AMPS.															
BUS RATING : 800 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS															
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS	
40		PEDESTAL A39								60A	1	2	100A	PEDESTAL A34, A27								80			
	40									2P	3	4	2P									80			
80		PEDESTAL A40, A46								100A	5	6	100A	PEDESTAL A33, A26								80			
	80									2P	7	8	2P									80			
80		PEDESTAL A49, A41								100A	9	10	100A	PEDESTAL A32, A25								80			
	80									2P	11	12	2P									80			
80		PEDESTAL A51, A50								100A	13	14	100A	PEDESTAL A20, A19								80			
	80									2P	15	16	2P									80			
-		SPACE									17	18	60A	PEDESTAL A18								40			
	-										19	20	2P									40			
-		SPACE									21	22	100A	BATHROOM #6								80			
	-										23	24	2P									80			
-		TVSS									25	26										-			
	-										27	28										15			
-											29	30										-			
280	280	SUB TOTAL LEFT												SUB TOTAL RIGHT								420	420		
										TOTAL CONNECTED LOAD										700	700				

PANEL # : PANEL CDP-4										LOCATION : LOOP A - NORTH																	
VOLTAGE : 120/240 VOLTS										1 -PHASE 3-WIRE 65 KAIC S.E.																	
MAIN DISCONNECT : <input type="checkbox"/> LUGS <input type="checkbox"/> SWITCH AMPS.										<input checked="" type="checkbox"/> BREAKER 600 AMPS.																	
BUS RATING : 600 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS																	
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS			
80		PEDESTAL A21, A28								100A		1 2		100A		PEDESTAL A24, A31								80			
80										2P		3 4		2P										80			
80		PEDESTAL A22, A29								100A		5 6		100A		PEDESTAL A14, A15								80			
80										2P		7 8		2P										80			
80		PEDESTAL A23, A30								100A		9 10		100A		PEDESTAL A16, A17								80			
80										2P		11 12		2P										80			
-		SPACE										13 14				SPACE								-			
-												15 16												-			
-												17 18				TVSS								-			
-												19 20												-			
-												21 22												-			
-												23 24												-			
-												25 26												-			
-												27 28												-			
-												29 30												-			
240		240		SUB TOTAL LEFT														SUB TOTAL RIGHT								240 240	
																		TOTAL CONNECTED LOAD								480 480	

LEGEND:

S.E. SERVICE ENTRANCE RATED



DATE Jun 22 117

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B	16-01-16	ISSUED FOR 90% REVIEW	CKW	JR	
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé	

Revision / Revision

A detail number
numéro de détail
B source drawing no.
de dessin no.
C detail on drawing no.
détail sur dessin no.

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

PANEL # : PANEL CDP-5										LOCATION : LOOP B - NORTHEAST																					
VOLTAGE : 120/240 VOLTS										1-PHASE 3-WIRE 65 KAIC S.E.																					
MAIN DISCONNECT : <input type="checkbox"/> LUGS										<input type="checkbox"/> SWITCH AMPS. <input checked="" type="checkbox"/> BREAKER 800 AMPS.																					
BUS RATING : 800 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS																					
AMPS		CIRCUIT DESCRIPTION										BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION										AMPS			
80		PEDESTAL B1, B2										100A	1	2	100A	PEDESTAL B8, B16										80					
	80											2P	3	4	2P												80				
80		PEDESTAL B3, B4										100A	5	6	100A	PEDESTAL B9, B17										80					
	80											2P	7	8	2P												80				
80		PEDESTAL B5, B6										100A	9	10	100A	PEDESTAL B10, B18										80					
	80											2P	11	12	2P												80				
80		KITCHEN #4										100A	13	14	100A	PEDESTAL B11										80					
	80											2P	15	16	2P												80				
40		PEDESTAL B7										60A	17	18	100A	JUNCTION BOX										-					
	40											2P	19	20	2P											-	-				
-													21	22		TVSS										-					
	-												23	24												-	-				
-													25	26												-					
	-												27	28												-	-				
-													29	30												-					
360	360	SUB TOTAL LEFT														SUB TOTAL RIGHT										320	320				
																				TOTAL CONNECTED LOAD										680	680

PANEL # : PANEL CDP-7										LOCATION : LOOP B - SOUTHWEST															
VOLTAGE : 120/240 VOLTS										1-PHASE 3-WIRE 65 KAIC S.E.															
MAIN DISCONNECT : <input type="checkbox"/> LUGS <input type="checkbox"/> SWITCH AMPS.										<input checked="" type="checkbox"/> BREAKER 800 AMPS.															
BUS RATING : 800 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS															
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS	
80		PEDESTAL B36, B35								100A	1	2	100A	PEDESTAL B52, B44								80			
	80									2P	3	4	2P									80			
80		PEDESTAL B34, B33								100A	5	6	100A	PEDESTAL B51, B43								80			
	80									2P	7	8	2P									80			
40		PEDESTAL B32								60A	9	10	100A	PEDESTAL B50, B42								80			
	40									2P	11	12	2P									80			
40		PEDESTAL B31								60A	13	14	100A	PEDESTAL B49, B41								80			
	40									2P	15	16	2P									80			
40		PEDESTAL B30								60A	17	18	100A	PEDESTAL B48, B40								80			
	40									2P	19	20	2P									80			
40		PEDETAL B29								60A	21	22		SPACE								-			
	40									2P	23	24										-			
-											25	26		TVSS								-			
	-										27	28										-			
-											29	30										-			
320	320	SUB TOTAL LEFT												SUB TOTAL RIGHT								400	400		
														TOTAL CONNECTED LOAD								720	720		

PANEL # :

PANEL CDP-6

VOLTAGE :

120/240

VOLTS

MAIN DISCONNECT :

☐

LUGS

BUS RATING :

800

AMPS.

1-PHASE

☐

SWITCH

3-WIRE

☐

AMPS.

65 KAIC

☒

BREAKER

S.E.

800

AMPS.

☒

COPPER BUS

☐

ALUMINUM BUS

LOCATION :

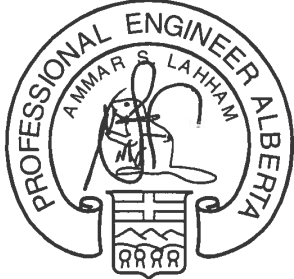
LOOP B - NORTHWEST

AMPS	CIRCUIT DESCRIPTION										BKR SIZE	CIRCUIT DESCRIPTION										AMPS				
40	PEDESTAL B21, B15										100A	1	2	100A	PEDESTAL B28										40	
40											2P	3	4	2P											40	
80	PEDESTAL B20, B14										100A	5	6	100A	PEDESTAL B27, B26										80	
80											2P	7	8	2P											80	
80	PEDESTAL B19, B13										100A	9	10	60A	PEDESTAL B25										40	
80											2P	11	12	2P											40	
40	PEDESTAL B12										60A	13	14	60A	PEDESTAL B24										40	
40											2P	15	16	2P											40	
-	SPACE											17	18	60A	PEDESTAL B23										40	
-												19	20	2P											40	
80	BATHROOM #10										100A	21	22	60A	PEDESTAL B22										40	
80											2P	23	24	2P											40	
-	TVSS											25	26	20A 1P	BOLLARD LIGHTING										16	
-												27	28													
-												29	30												-	
320	320	SUB TOTAL LEFT														SUB TOTAL RIGHT										296
												TOTAL CONNECTED LOAD										616				

PANEL # : PANEL CDP-8										LOCATION : LOOP B - SOUTHEAST																											
VOLTAGE : 120/240					VOLTS					1 -PHASE					3 -WIRE					65 KAIC					S.E.												
MAIN DISCONNECT :					<input type="checkbox"/> LUGS					<input type="checkbox"/> SWITCH					AMPS.					<input checked="" type="checkbox"/> BREAKER					800 AMPS.												
BUS RATING : 800 AMPS.					<input checked="" type="checkbox"/> COPPER BUS										<input type="checkbox"/> ALUMINUM BUS																						
AMPS		CIRCUIT DESCRIPTION												BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION												AMPS					
80		PEDESTAL B45, B37												100A	1	2	100A	PEDESTAL B55, B56												80							
	80													2P	3	4	2P														80						
80		PEDESTAL B38, B46												100A	5	6	100A	PEDESTAL B57, B58												80							
	80													2P	7	8	2P														80						
80		PEDESTAL B39, B47												100A	9	10	60A	PEDESTAL B59												40							
	80													2P	11	12	2P														40						
80		PEDESTAL B53, B54												100A	13	14	60A	PEDESTAL B60												40							
	80													2P	15	16	2P														40						
40		KITCHEN #13												60A	17	18		TVSS												-							
	40													2P	19	20	20A 1P	LIGHTING													16						
-															21	22														-							
	-														23	24															-						
-															25	26														-							
	-														27	28															-						
-															29	30														-							
360	360	SUB TOTAL LEFT																SUB TOTAL RIGHT												240	240						
																								TOTAL CONNECTED LOAD												600	600

LEGEND:

S.E. SERVICE ENTRANCE RATED

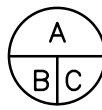
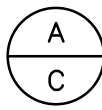


DATE Jun 22 117

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Revision / Revision



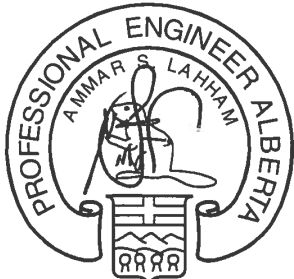
Consultant's Name
Nom

PANEL # : PANEL CDP-10										LOCATION : LOOP D															
VOLTAGE : 120/240 VOLTS										1-PHASE 3-WIRE 65 KAIC S.E.															
MAIN DISCONNECT : <input type="checkbox"/> LUGS										<input type="checkbox"/> SWITCH AMPS. <input checked="" type="checkbox"/> BREAKER 800 AMPS.															
BUS RATING : 800 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS															
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS	
80		PEDESTAL D10, D9								100A	1	2	100A	PEDESTAL D19, D20								80			
	80									2P	3	4	2P										80		
80		PEDESTAL D12, D11								100A	5	6	100A	PEDESTAL D1, D2								80			
	80									2P	7	8	2P										80		
80		PEDESTAL D13, D15								100A	9	10	100A	PEDESTAL D3, D4								80			
	80									2P	11	12	2P										80		
80		PEDESTAL D14, D16								100A	13	14	100A	PEDESTAL D5, D6								80			
	80									2P	15	16	2P										80		
80		PEDESTAL D17, D18								100A	17	18	100A	PEDESTAL D7, D8								80			
	80									2P	19	20	2P										80		
-											21	22		TVSS								-			
	-										23	24											-		
80		COMMUNITY KITCHEN								100A	25	26	100A	KITCHEN #5								80			
	80									2P	27	28	2P										80		
-											29	30										-			
	-																								
480	480	SUB TOTAL LEFT												SUB TOTAL RIGHT								480	480		
										TOTAL CONNECTED LOAD										960	960				

PANEL # : PANEL CDP-9										LOCATION : LOOP C															
VOLTAGE : 120/240 VOLTS										1-PHASE 3-WIRE 65 KAIC S.E.															
MAIN DISCONNECT : <input type="checkbox"/> LUGS										<input type="checkbox"/> SWITCH AMPS. <input checked="" type="checkbox"/> BREAKER 600 AMPS.															
BUS RATING : 600 AMPS.										<input checked="" type="checkbox"/> COPPER BUS <input type="checkbox"/> ALUMINUM BUS															
AMPS		CIRCUIT DESCRIPTION								BKR SIZE				BKR SIZE		CIRCUIT DESCRIPTION								AMPS	
80		PEDESTAL C8, C6								100A	1	2	100A	PEDESTAL C5, C3								80			
	80									2P	3	4	2P									80			
80		PEDESTAL C9, C7								100A	5	6	60A	PEDESTAL C1								80			
	80									2P	7	8	2P									80			
80		PEDESTAL C4, C2								100A	9	10		TVSS								-			
	80									2P	11	12										-			
											13	14	100A	BATHROOM #7								80			
											15	16	2P									80			
											17	18	100A	KITCHEN #8								80			
											19	20	2P									80			
-											21	22	100A	KITCHEN #9								80			
	-										23	24	2P									80			
											25	26										-			
	-										27	28										-			
-											29	30										-			
240	240	SUB TOTAL LEFT												SUB TOTAL RIGHT								400	400		
										TOTAL CONNECTED LOAD										480	800				

LEGEND:

S.E. SERVICE ENTRANCE RATED



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Canada

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	Western and Northern Region	Ouest et Nord du Canada

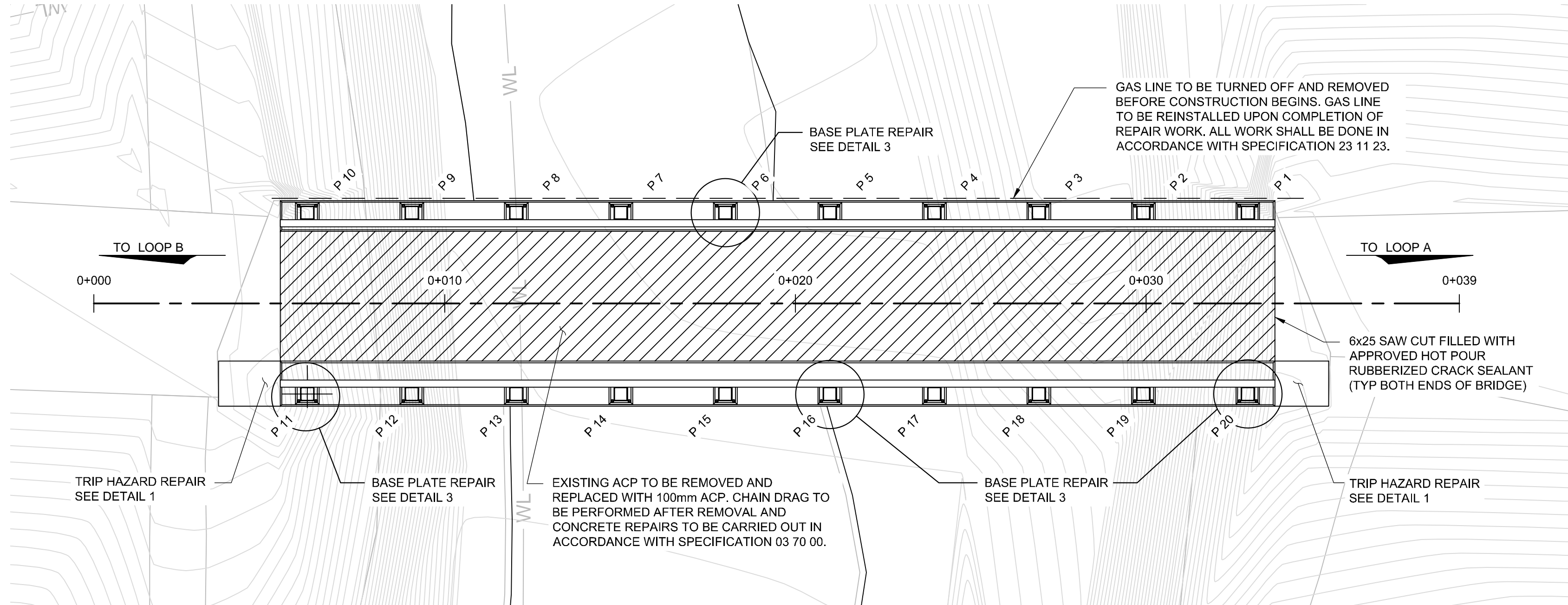
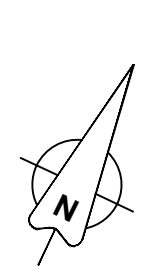
Project title/Titre du projet

WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

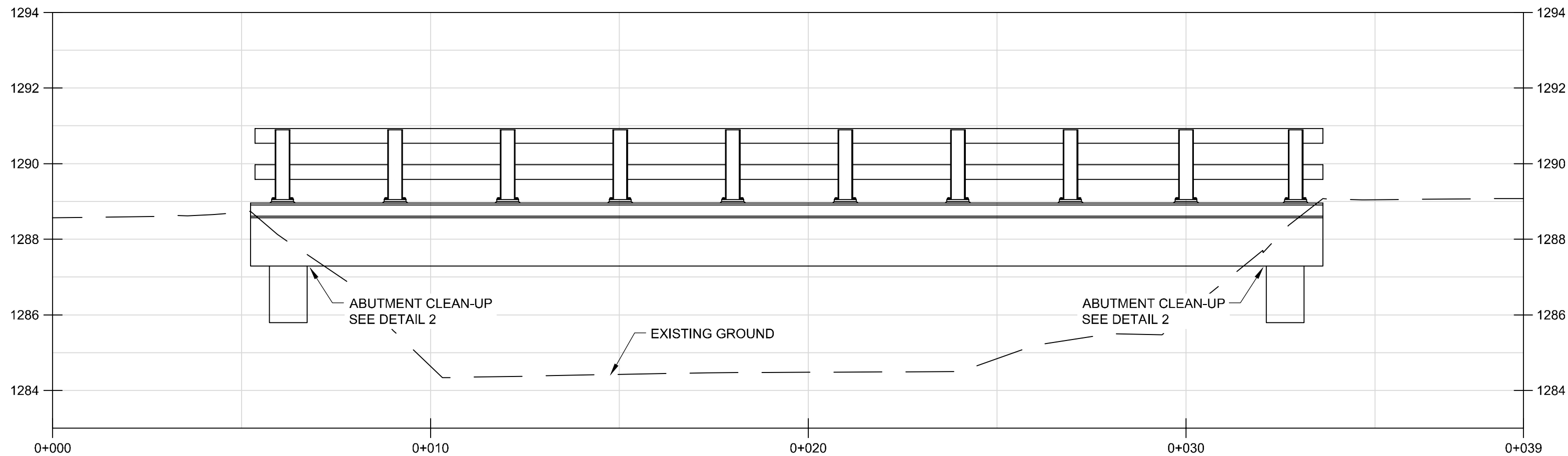
Drawing title/Titre du dessin

ELECTRICAL PANEL
SCHEDULES LOOP 'C, D, & E'

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par CKW	Date/Date 2015-11-06
Designed by/Conçu par JR	Reviewed by/Revisé par RS	Scale/Echelle -
PWOSC Project Manager/Administrateur de Projets TPSSC -		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsible Officer/Agent Responsable		PWOSC Project Manager/Administrateur de Projets TPSSC
Project No./No. du projet 60432200	Asset No./No. du-bien -	Sheet No./ No. de la feuille
Drawing Reference No./No. de référence du dessin E-1012		43 of 47



PLAN
1:200



ELEVATION
1:200



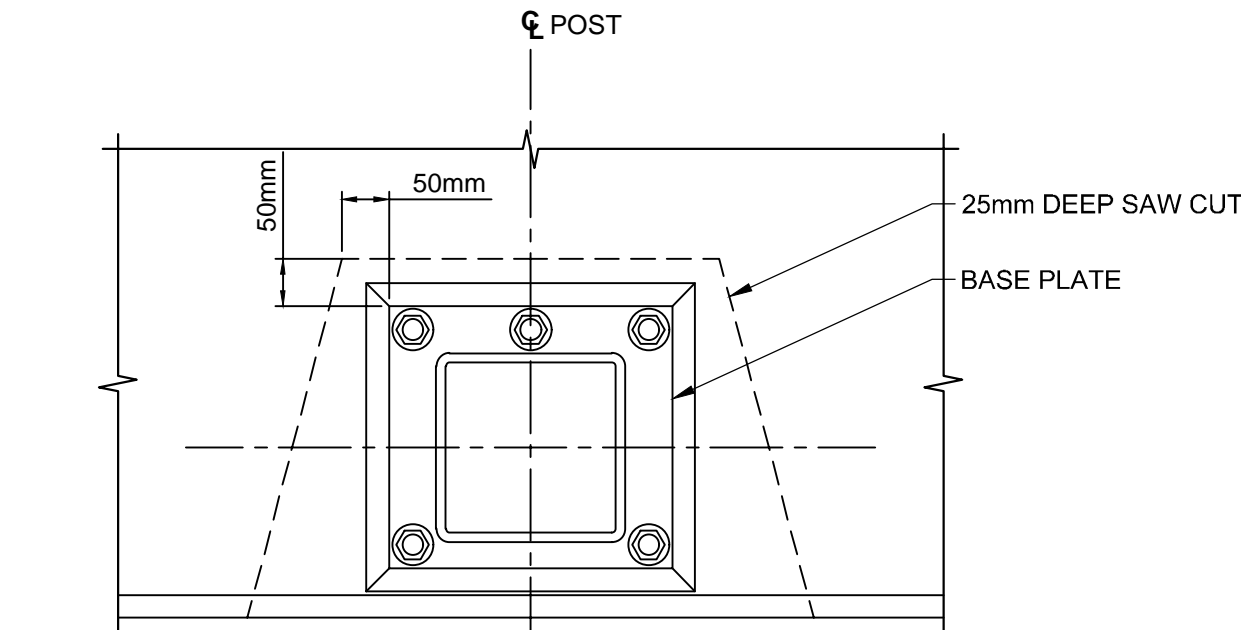
TRIP HAZARD REPAIR - DETAIL 1
Scale NTS



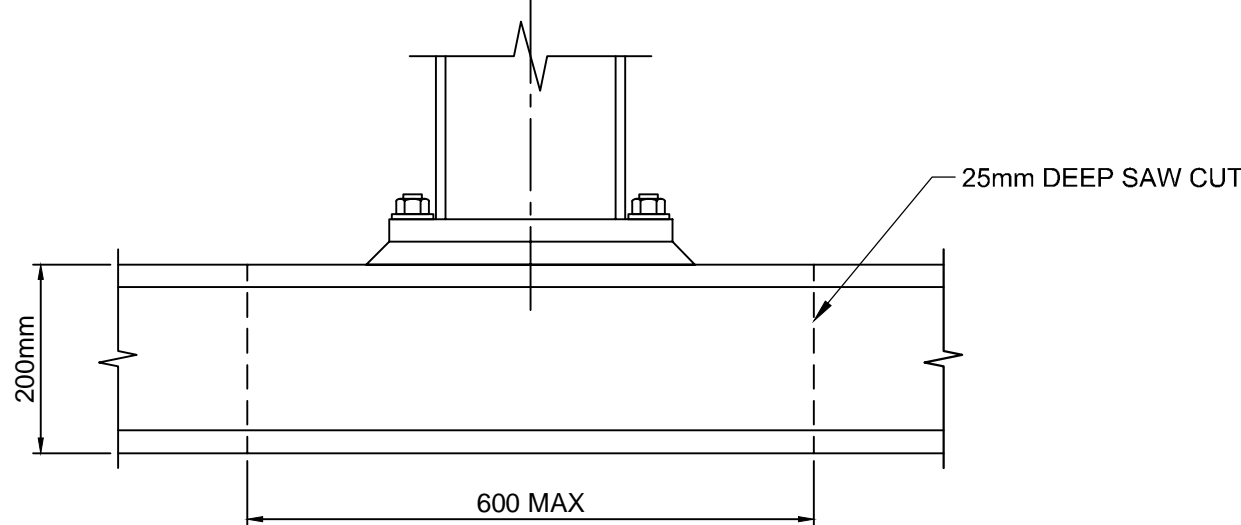
ABUTMENT CLEANUP - DETAIL 2
Scale NTS



BASE PLATE REPAIR - DETAIL 3
(TYPICAL 4 LOCATIONS POST P6, P11, P16 & P20) Scale NTS



PLAN

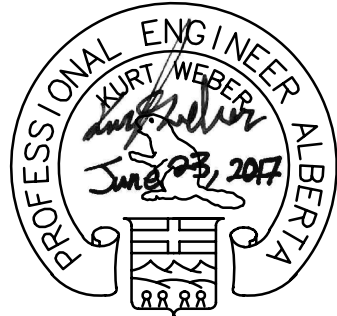


ELEVATION

BASE PLATE REPAIR DETAIL
(TYPICAL 4 LOCATIONS POST P6, P11, P16 & P20) N.T.S.

BASE PLATE REPAIR NOTES:

- REPAIR AREAS TO BE FILLED WITH SIKACRETE- 08 SCC.
- CONCRETE TO BE REMOVED TO A DEPTH OF 25mm BEHIND REINFORCING BAR.
- MAXIMUM HAMMER SIZE IS LIMITED TO 15lbs.
- ALL DEBRIS AND CONSTRUCTION MATERIALS TO BE FULLY CONTAINED.
- ALL PERMITTING FOR THIS ACTIVITY TO BE PROVIDED BY THE CONTRACTOR, APPLICATIONS SHALL BE PROVIDED TO PARKS CANADA.



PRELIMINARY
NOT FOR CONSTRUCTION

Date: 2016/06/20

NOTICE:
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GENERAL NOTES

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
D	17-06-23	ISSUED FOR TENDER	BS	KW
C	17-03-27	ISSUED FOR 95% REVIEW	BS	KW
B	16-01-18	ISSUED FOR 90% REVIEW	MR	KG
A	15-11-06	ISSUED FOR 60% REVIEW	MR	BY

Revision / Révision	
A	detail number numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Sceau de l'ingénieur

Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada
Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943

Drawing title/Titre du dessin
BRIDGE REPAIR DETAILS

Surveyed by/Arpenté par
AECOM
Designed by/Concept par
BY
Drawn by/Dessiné par
BS
Reviewed by/Revisé par
KW
Date
2015-11-06
Scale/Echelle
NTS

PWOSC Project Manager/Administrateur de Projets TP50C

Client Acceptance/Acceptation du client
Approved by/Approuvé par

Park Responsible Officer/Agent Responsable
PWOSC Project Manager/Administrateur de Projets TP50C

Project No./No. du projet
60432200
Asset No./No. du bien
-
Sheet No./No. de la feuille
44 of 47

Drawing Reference No./No. de référence du dessin
ST-1001

GENERAL NOTES

1. READ THE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER PERTINENT CONTRACT DOCUMENTS. ENSURE THAT RELEVANT STATUTORY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING SITE WORKS.
2. ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
3. DO NOT RELY ON ACCURACY OF ANY AS-BUILT RECORDS PROVIDED. SURVEY AND VERIFY ACTUAL DIMENSIONS AND LAYOUT.
4. THE DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ALBERTA BUILDING CODE 2014 AND REFERENCED STANDARDS THEREIN. IF CONFLICTS ARISE BETWEEN DOCUMENTS, THE MORE STRINGENT SHALL APPLY UNLESS AGREED OTHERWISE.
5. NOTIFY THE STRUCTURAL ENGINEER OF RECORD 48 HOURS IN ADVANCE FOR SITE REVIEW OF THE WORK.
6. PROVIDE TEMPORARY BRACING OR PROPS FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
7. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE CONSULTANT 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.
8. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS.
9. IF NO DATES GIVEN FOR CODES AND STANDARDS REFERENCED, USE LATEST EDITION.
10. SUBMIT THE FOLLOWING SHOP DRAWINGS, SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA, PRIOR TO FABRICATION:
 - A) STEEL REINFORCING FOR REINFORCED CONCRETE
 - B) CONCRETE MIXIMPROPERLY PREPARED SHOP DRAWINGS ARE SUBJECT TO REJECTION AND, ON THAT BASIS, ARE TO BE WITHDRAWN AND RESUBMITTED.
11. ALL SHOP DRAWING SUBMITTALS TO BE METRIC.
12. COMPLY WITH ALL RELEVANT WORK AND SAFETY PROCEDURES GIVEN IN THE CODES, REGULATIONS AND CLIENT'S STANDARDS.
13. SUBMIT METHOD STATEMENTS TO CONSULTANTS WHEN REQUESTED FOR INFORMATION / COMMENT / AGREEMENT:
 - a. CONTRACTOR'S QUALITY / INSPECTION PROCEDURES
 - b. CONCRETE REPAIR PROCEDURES
 - c. HOT / COLD WEATHER CONCRETING PROCEDURE
14. REPORT TO THE CONSULTANT ALL WORKS THAT DO NOT COMPLY WITH THE PROJECT REQUIREMENTS AND SUBMIT REMEDIAL WORKS PROPOSAL FOR COMMENT / AGREEMENT. DEFECTIVE WORK AND SUBSTANDARD MATERIALS SHALL BE RECTIFIED SATISFACTORILY OR REMOVED FROM SITE.

DESIGN LOADS

1. DEAD LOADS: SELF-WEIGHT
2. LIVE LOADS: (ROOF) 3.0 kPa (NOMINAL SOIL SURCHARGE)
3. IMPORTANCE CATEGORY NORMAL
4. SNOW LOADS: (ROOF) Ss = 1.5 kPa
Sr = 0.1 kPa
5. GEOTECHNICAL NOTES: BASED ON AECOM'S GEOTECHNICAL ENGINEER'S REPORT DATED AUGUST 2008 BY GLOBAL ENGINEERING AND TESTING LTD. ALLOWABLE BEARING RESISTANCE = 200 kPa. DESIGN CAPACITY SHALL BE REVIEWED ONCE BASE FOR NEW FOUNDATION IS EXCAVATED. TO BE CONFIRMED BY GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

BUILDING RELOCATION AND FOUNDATION DEMOLITION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL THE REQUIRED PERMITS AND ROAD ACCESS TO RELOCATE THE EXISTING KITCHENS #4 & #13. DEMOLITION TO CONFORM TO THE ALBERTA BUILDING CODE 2014, PART 8 AND THE LATEST ALBERTA OCCUPATIONAL HEALTH AND SAFETY ACT, REGULATION AND CODE. THE CONTRACTOR SHALL SURVEY AND CHECK ACTUAL CONDITIONS AND DIMENSIONS ON SITE. DETAILS AND DIMENSIONS ON DRAWINGS ARE INDICATIVE ONLY.
2. ALL DIMENSIONS ARE TO BE IDENTIFIED AND CONFIRMED BY THE CONTRACTOR. THE CONTRACTOR IS TO INFORM THE ENGINEER OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING THE EXISTING BUILDINGS DURING THE RELOCATION OF THE EXISTING KITCHENS #4 & #13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES DURING THE RELOCATION AND SHOULD REPAIR OR REPLACE ANY DAMAGES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FASTENING THE RELOCATED KITCHENS #4 & #13 TO THE NEW FOUNDATION WALLS.
5. DEMOLISH AND REMOVE THE EXISTING CONCRETE FOUNDATION WALLS (THE ABOVE GROUND PART AND 300mm MINIMUM UNDERGROUND) AND THE EXISTING SLAB-ON-GRADE FOR THE KITCHEN BUILDINGS #4 & #13. THIS WILL INCLUDE BACKFILLING AND LEVELING THE GRADE AS PER THE GRADING DRAWINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL FROM SITE AND DISPOSAL OF ALL DEMOLISHED MATERIAL. THE CONTRACTOR SHALL PLAN WORK SO THAT STOCKPILING IS MINIMIZED.
- 7.

FOUNDATION

1. ALL FOUNDATION CONSTRUCTION TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN ENGINEERING REPORT - "AECOM'S GEOTECHNICAL ENGINEER'S REPORT DATED AUGUST 2008 BY GLOBAL ENGINEERING AND TESTING LTD".
2. THE SITE SHALL BE FORMED TO THE GENERAL GRADE LEVEL PRIOR TO CONSTRUCTION OF THE FOUNDATIONS AND SLABS.
3. ALL BEARING SURFACE MUST BE APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE CONCRETE IS PLACED.
4. TOLERANCES:

OUT OF POSITION	50mm
CUT-OFF ELEVATION	+0 TO -50mm
5. ALL SLABS TO BE REINFORCED AS SHOWN ON PLAN.
6. REINFORCING STEEL TO G30.18 GRADE 300 FOR TIES. GRADE 400 FOR 15M AND LARGER BARS. LAP SPLICES 36 BAR DIAMETERS OR 450mm, WHICHEVER IS GREATER.
7. MECHANICAL SPLICE IF ALLOWED SHALL CONFORM TO CSA A23.3.
8. PLACE REINFORCEMENT BEFORE PLACING CONCRETE UNLESS AGREED WITH THE ENGINEER.
9. ENSURE THAT ALL LOOSE MATERIAL AND WATER IS THOROUGHLY REMOVED FROM EXCAVATIONS PRIOR TO PLACING REINFORCEMENT AND CONCRETE.

CONCRETE REINFORCEMENT

1. DEFORMED BARS CONFORMING TO CSA G30.18-M92(07) GRADE 400W, TIES AND STIRRUPS TO CSA G30.18-M92(02) GRADE 400V.
2. WELDABLE REINFORCING BARS SHALL CONFORM TO CSA G30.18-M92(07) GRADE 400W. WELDING OF REINFORCING SHALL CONFORM TO CSA W186.
3. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA-A23.1 AND CSA-A23.3.
4. 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.
5. REINFORCING IN SLABS AND WALLS TO BE CONTINUOUS UNLESS NOTED. MINIMUM LAP FOR 10M BARS TO BE 450mm. MINIMUM LAPS FOR OTHER BARS TO BE CLASS B TENSION SPLICES
6. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
7. REPLACE ANY BARS THAT HAVE DEVELOPED SPLITS OR CRACKS.
8. MINIMUM REINFORCING AROUND OPENINGS LARGER THAN 300mm: 1-15M UNO EACH SIDE AND EACH FACE OF OPENING EXTENDED 600mm PAST CORNERS.
9. REINFORCING SHOWN ON STRUCTURAL DETAILS IS SCHEMATIC ONLY AND MAY NOT SHOW THE ACTUAL NUMBER OF REBARS.

CONCRETE

1. PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23.1. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
2. THE CONCRETE SUPPLIER SHALL BE A MEMBER OF THE ALBERTA READY MIXED CONCRETE ASSOCIATION.
3. PROPORTION NORMAL DENSITY CONCRETE (2400 kg/m3) IN ACCORDANCE WITH CSA-A23.1 TO MEET THE FOLLOWING REQUIREMENTS:

LOCATION	CSA EXPOSURE CLASS	CEMENT TYPE	MINIMUM COMPRESSIVE STRENGTH (MPa)	MAX W/C RATIO	MAX AGGREGATE (mm) SIZE	AIR CONTENT RANGE (%)
FOOTING & FOUNDATION WALL	S-1	GU	25 AT 28 DAYS	0.40	20	4-6
SLAB-ON-GRADE	S-1	GU	25 AT 28 DAYS	0.40	20	4-6
SIDEWALK	C-2	GU	25 AT 28 DAYS	0.40	20	4-6

4. USE OF ANY ADMIXTURES IN THE CONCRETE SHALL BE APPROVED, IN WRITING, BY THE CONSULTANT PRIOR TO USE. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.
5. TARGET SLUMP OF FRESH CONCRETE SHALL BE APPROPRIATE TO THE METHOD OF PLACING CONCRETE AND TO THE ELEMENT BEING CONCRETED.
6. SUBMIT CONCRETE MIX PROPORTIONS TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH TABLE 5 IN CSA-A23.1, ALTERNATIVE 1. AT THE REQUEST OF THE ENGINEER, SUBMIT A LETTER SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA, STATING THAT ALL CONCRETE SUPPLIED MEETS THE PROJECT SPECIFICATIONS AND REQUIREMENTS OF CSA-A23.1.
7. OBTAIN ENGINEER'S APPROVAL BEFORE PLACING CONCRETE. PROVIDE 48 HOURS NOTICE PRIOR TO CONCRETE PLACEMENT.
8. CONCRETE TO BE BATCHED AND COMPLETELY DISCHARGED IN A PERIOD NOT EXCEEDING ONE HUNDRED AND TWENTY (120) MINUTES FROM THE TIME OF INITIAL ADDITION OF WATER TO THE CEMENT AND AGGREGATE.
9. CLEAR CONCRETE COVER TO REINFORCING STEEL = 70mm MINIMUM WHEN CAST AGAINST SOIL AND 50mm FOR ALL OTHER CONDITIONS.
10. VAPOUR BARRIER: 6 MIL OR 0.15mm POLYETHYLENE MEMBRANE SUITABLE FOR BELOW GRADE USE.
11. ENSURE REINFORCEMENT AND INSERTS ARE NOT DISTURBED DURING CONCRETE PLACEMENT. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND OR IN STANDING WATER.
12. CHECK LOCATIONS AND SIZES OF SLEEVES AND OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS. SLEEVES SHALL NOT BE PLACED HORIZONTALLY ALONG OR VERTICALLY THROUGH WALLS/BEAMS UNLESS AUTHORIZED BY CONSULTANT.
13. USE 25 x 25 FORMED CHAMFERS ON EXPOSED CORNERS.
14. MAINTAIN ACCURATE RECORDS OF POURED CONCRETE ITEMS TO INDICATE DATE, LOCATION OF POUR, AIR TEMPERATURE, AND TEST SAMPLES TAKEN. SUBMIT RECORDS TO ENGINEER UPON REQUEST.
15. PROTECT CONCRETE FROM PREMATURE DRYING. CURE CONCRETE IN ACCORDANCE WITH CSA-A23.1. PROVIDE ADDITIONAL CURING MEASURES OR PROTECTION DURING HOT OR COLD WEATHER IN ACCORDANCE WITH CSA-A23.1.
16. DO NOT PLACE CONCRETE WHEN WEATHER IS NOT SUITABLE (E.G. DURING RAIN, SNOW) UNLESS ADEQUATE PRECAUTIONARY MEASURES ARE IN PLACE.
17. FILL TIE HOLES IN ACCORDANCE WITH CSA-A23.1.
18. REPAIR HONEYCOMBED AND DEFECTIVE CONCRETE AT CONTRACTOR'S OWN COST. PROPOSED METHOD STATEMENT AND MATERIAL FOR REPAIR SHALL BE SUBMITTED TO THE CONSULTANT FOR APPROVAL.
19. CONTRACTOR TO PREVENT WASHDOWN OF CONCRETE TRUCKS WITHIN THE NATIONAL PARK.

CONCRETE TESTING

1. A STRENGTH TEST FOR CONCRETE WITH 56-DAY STRENGTH SPECIFIED WILL CONSIST OF FOUR CYLINDERS; ONE TESTED AT SEVEN (7) DAYS AND TWO TESTED AT TWENTY-EIGHT (28) DAYS.
2. FREQUENCY OF CONCRETE TESTING WILL BE ONE SET OF CYLINDERS FOR EACH CONCRETE MIX POURED IN A DAY. THIS FREQUENCY MAY BE INCREASED OR DECREASED AT THE ENGINEER'S DISCRETION.
3. TEST SLUMP AND AIR CONTENT EACH TIME CYLINDER SAMPLES ARE TAKEN.
4. THE TESTING LABORATORY WILL TAKE ADDITIONAL CYLINDERS DURING COLD WEATHER CONCRETING. CURE CYLINDERS ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE WHICH THEY REPRESENT.
5. CONTRACTOR SHALL PROVIDE ACCESS TO ALL WORK BEING INSPECTED / TESTED.
6. NON-DESTRUCTIVE METHODS OF TESTING CONCRETE SHALL BE IN ACCORDANCE WITH CSA-A23.2.
7. INSPECTION OR TESTING BY TESTING LABORATORY WILL NOT AUGMENT OR REPLACE CONTRACTOR QUALITY CONTROL NOR RELIEVE HIM OF HIS CONTRACTUAL RESPONSIBILITY.
8. CONCRETE FAILING TO MEET THE SPECIFIED REQUIREMENTS SHALL BE RETESTED, STRENGTHENED, OR REJECTED IN ACCORDANCE WITH THE CSA-A23.2. ALL ADDITIONAL TESTING, STRENGTHENING, AND/OR REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.

EXCAVATION & BACKFILL

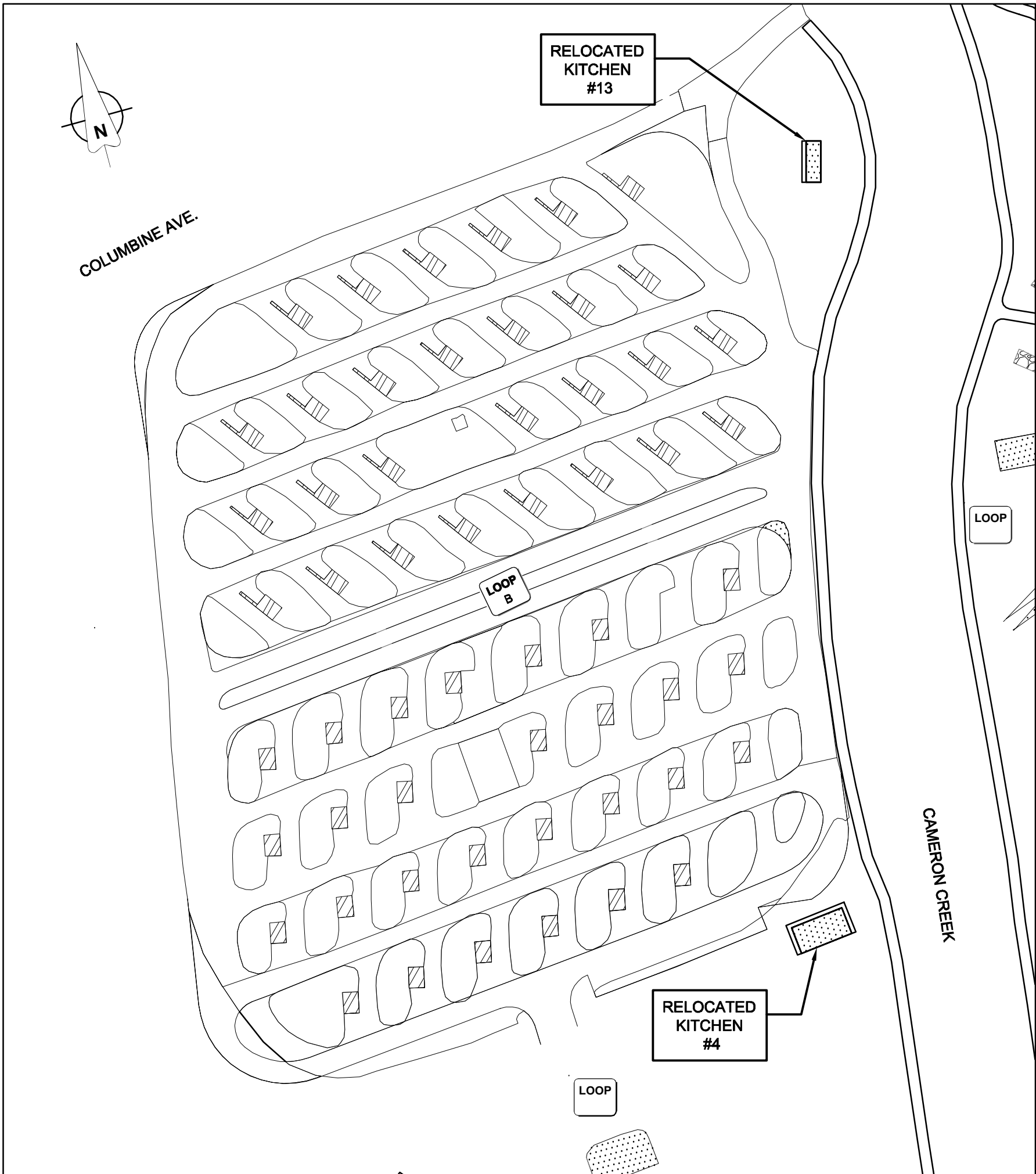
1. EXTENT OF EXCAVATION SHALL BE MINIMIZED TO AVOID AFFECTING ADJOINING SLOPE AND STRUCTURES.
2. ENSURE THAT THE INTEGRITY OF EXISTING UNDERGROUND SERVICES / STRUCTURES ARE MAINTAINED AT ALL TIMES DURING THE WORK. REPAIR / RECTIFY IMMEDIATELY ANY DAMAGE / DISRUPTION TO THE CLIENT'S SATISFACTION AND AT THE CONTRACTOR'S OWN COST.
3. DO NOT PLACE BACKFILL ON FROZEN GROUND OR WATER LOGGED GROUND, NOR USE FROZEN MATERIAL.
4. BACKFILL AND COMPACT TO GRADES INDICATED IN LAYERS NOT EXCEEDING 150mm.
5. PIT RUN GRAVEL TO BE CLEAN, NATURAL SAND AND GRAVEL, FREE FROM SILT, LOAM, FRIABLE OR VEGETABLE MATTER, MAXIMUM GRAIN SIZE 75mm AND LESS THAN 8% PASSING 200 SIEVE. SEE GEOTECHNICAL REPORT.
6. COMPACTION DENSITIES AND FILL MATERIALS:

LOCATION	FILL MATERIAL	STANDARD PROCTOR DENSITY (SPMDD)
AROUND EXISTING CISTERN	SAND, PIT RUN GRAVEL OR CRUSHED GRAVEL TO WITHIN 600 mm OF SURFACE, TOP 600 mm SHALL CONSIST OF LOW PLASTIC CLAY.	95%

7. FENCE OFF OR MAKE INACCESSIBLE ALL EXCAVATIONS IF LEFT UNATTENDED.
8. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO AVOID DAMAGING OR CONTAMINATING THE SPRING.

GEOTECHNICAL NOTES

1. THE RISK ASSOCIATED WITH CRACKING OF SLAB-ON-GRADE FLOORS (IF ANY) DUE TO FROST HEAVE MOVEMENTS AND SETTLEMENT IS ACCEPTABLE TO PCA.
2. THE SUBGRADE BELOW THE THICKENED PERIMETER SLAB-ON-GRADE FLOOR IS PREPARED BY REMOVING ALL ORGANICS AND SOFT/LOOSE/WET/FROZEN/UNSUITABLE SOILS. AFTER REMOVAL OF ORGANICS AND ALL OTHER SUITABLE SOILS, THE SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 150mm, MOISTURE CONDITIONED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DENSITY. THE SUBGRADE PREPARATION SHOULD EXTEND AT LEAST 1m OUTSIDE FROM THE EDGE OF THE SLAB ON ALL SIDES.
3. A MINIMUM THICKNESS OF 300 MM OF 20mm MINUS CRUSHED GRAVEL SHOULD BE PLACED UNDER THE SLAB FOOTPRINT ON THE PREPARED SUBGRADE. THE CRUSHED GRAVEL SHOULD EXTEND AT LEAST 1m OUTSIDE FROM THE EDGE OF THE SLAB ON ALL SIDES. THE GRAVEL SHOULD BE PLACED IN TWO LIFTS (150mm COMPACTED THICKNESSES) AND COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DENSITY WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.
4. THE MINIMUM WIDTH AND THICKNESS OF THICKENED PERIMETER SHOULD BE 300mm AND MINIMUM SLAB THICKNESS SHOULD BE 125mm. THE SLAB AND THICKENED PERIMETER SHOULD BE ADEQUATELY REINFORCED.
5. FILL AROUND THE SLAB PERIMETER SHOULD BE PLACED NO HIGHER THAN 100mm FROM THE TOP OF THE SLAB AND SHOULD SLOPE AWAY FROM THE BUILDING AT A MINIMUM GRADIENT OF 3 PERCENT. THE EXPOSED GROUND OUTSIDE THE KITCHEN SHOULD BE LANDSCAPED, TOP SOILED AND SEEDED TO REDUCE THE EROSION. LANDSCAPING AND SITE GRADING ARE EXPECTED TO REDUCE INFILTRATION INTO GROUND REDUCING POTENTIAL FOR SEASONAL FROST MOVEMENT.
6. AN ULTIMATE SOIL RESISTANCE OF APPROXIMATELY 125kPa CAN BE USED FOR DESIGN PURPOSES IF SUBGRADE IS PREPARED AS DESCRIBED ABOVE AND MINIMUM THICKNESS AND WIDTH OF THICKENED PERIMETER ARE 300mm. A RESISTANCE FACTOR OF 0.5 SHOULD BE APPLIED ON THE ULTIMATE SOIL RESISTANCE TO OBTAIN THE FACTORED SOIL RESISTANCE.
7. THE WALLS AND COLUMNS SHOULD BE SUPPORTED ON THE THICKENED PERIMETER AND NOT ON THE 125mm THICK SLAB.



SITE LAYOUT

1:100

ABBREVIATIONS

- AIFB: ASPHALT IMPREGNATED FIBRE BOARD
BOT.: BOTTOM
CLR.: CLEAR
C/W: COMPLETE WITH
IF: INSIDE FACE
OF: OUTSIDE FACE
O/C: ON CENTRE
REM: REMAINDER
R.C.: REINFORCED CONCRETE
TYP.: TYPICAL
UNO: UNLESS NOTED OTHERWISE



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B	2017.06.23	ISSUED FOR TENDER	SJB	AA
A	2017.03.27	ISSUED FOR 95% REVIEW	SJB	AA

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Révision		A detail number numero de detail		A detail on drawing no. detail sur dessin no.	
A		B		C	
C				B	

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingenieur
AECOM	

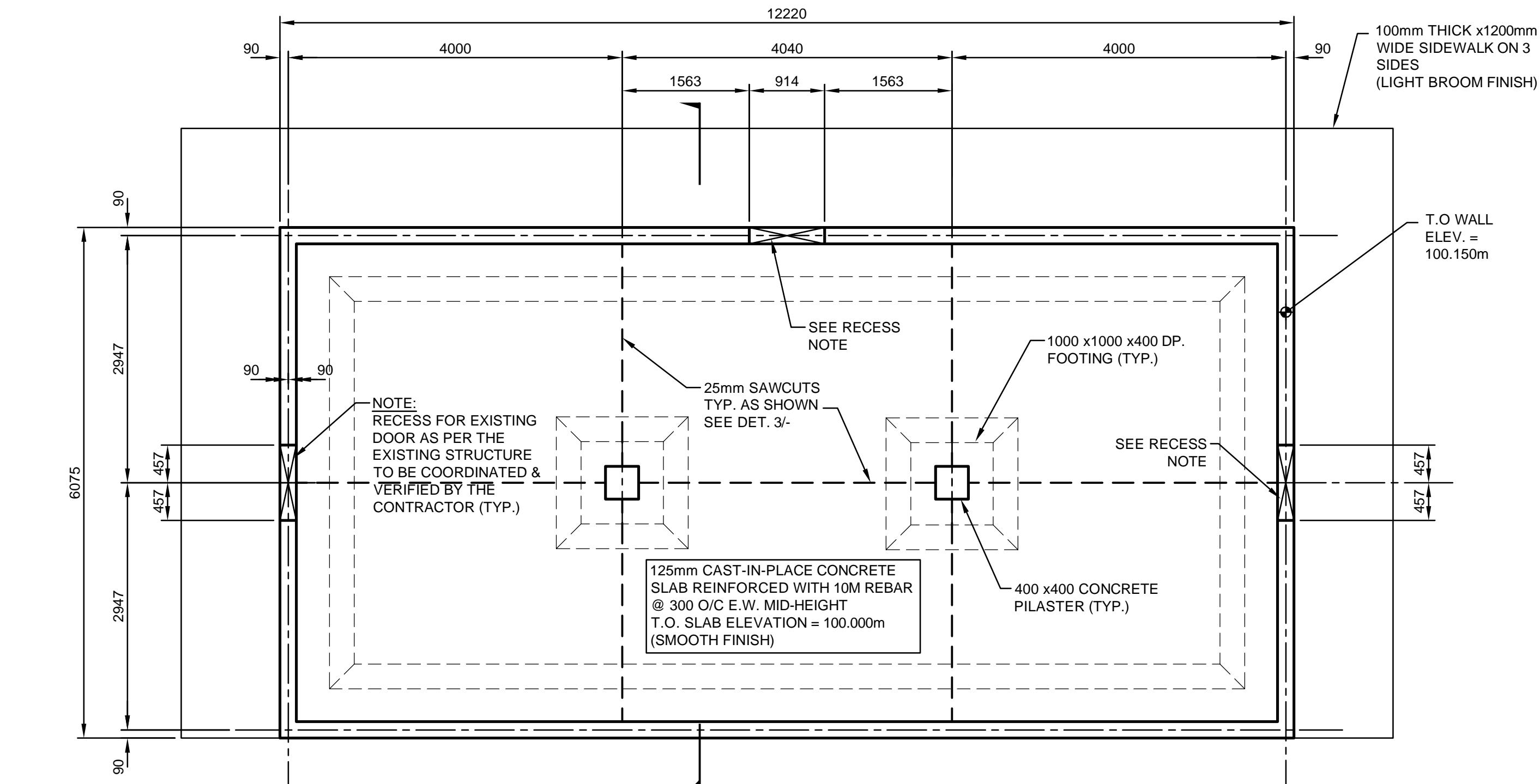
Canada

Client/Client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

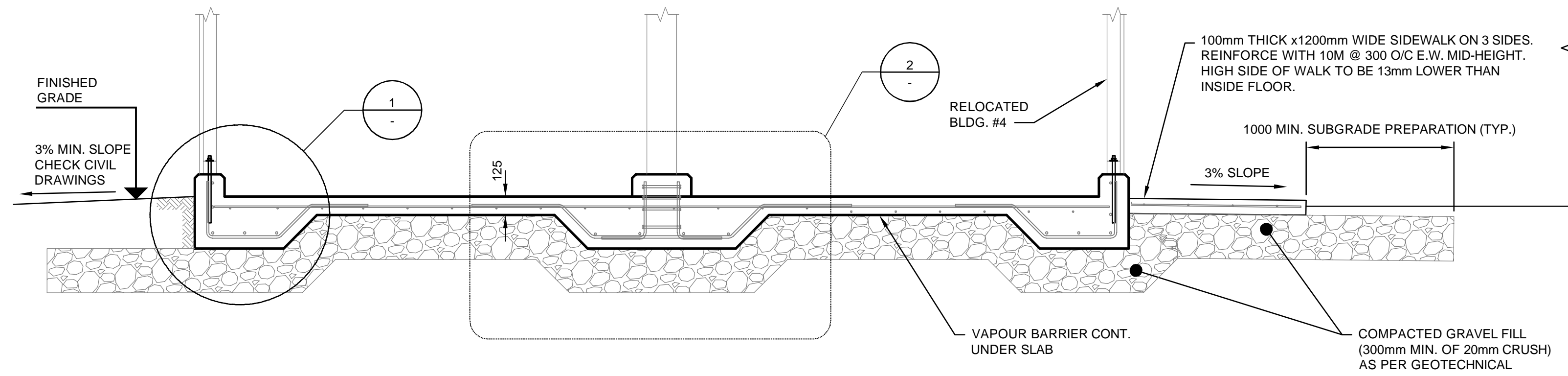
Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**STRUCTURAL
GENERAL NOTES**

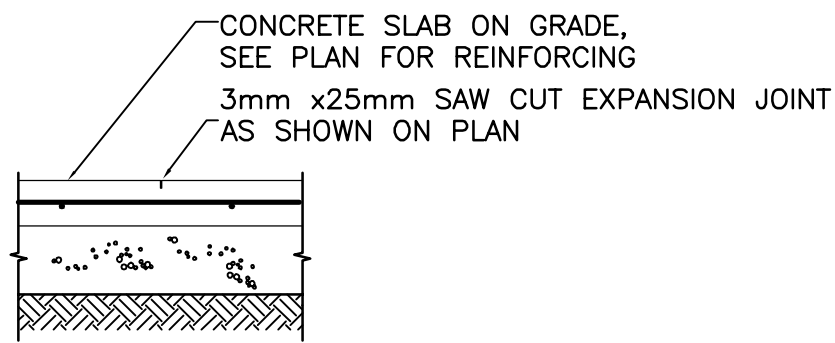
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Designed by/Conçut par AA	Reviewed by/Révisé par -	Scale/Echelle NTS
PWOSC Project Manager/Administrateur de Projets TP50C -		
Client Acceptance/Acceptation du client Approved by/Approuvé par		
Part Responsible Officer/Agent Responsable PWOSC Project Manager/Administrateur de Projets TP50C		
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Drawing Reference No./No. de référence du dessin ST-2001		



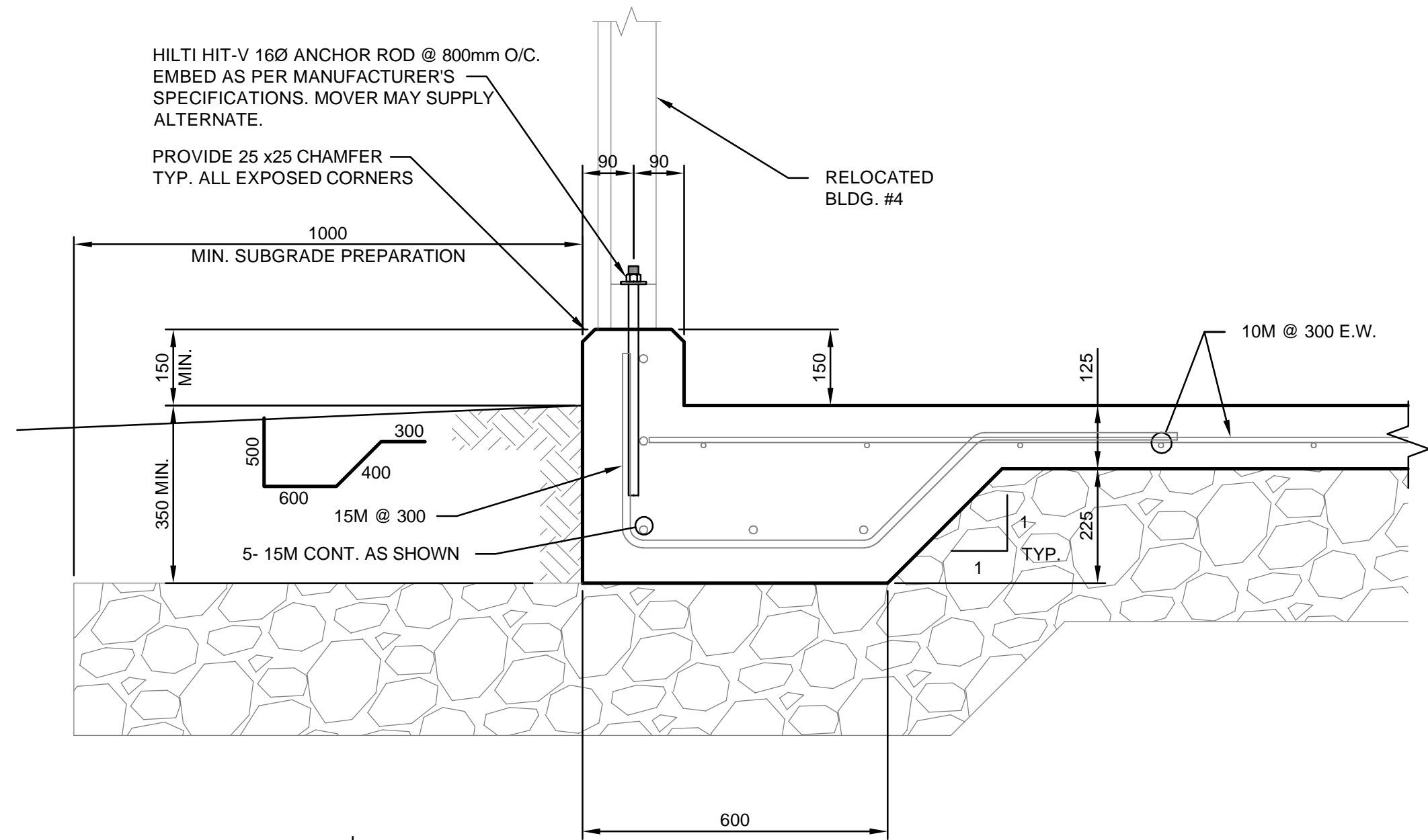
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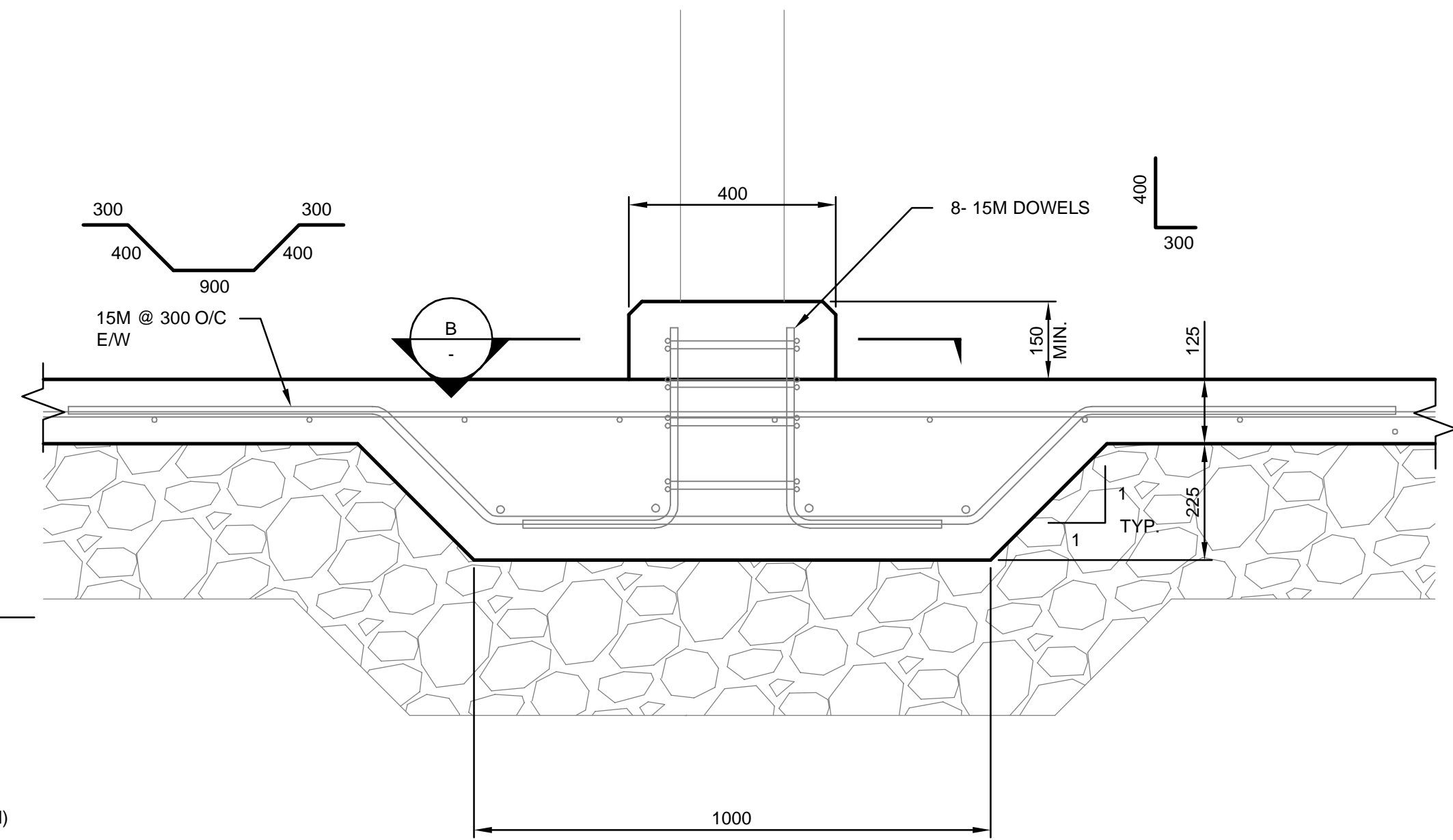
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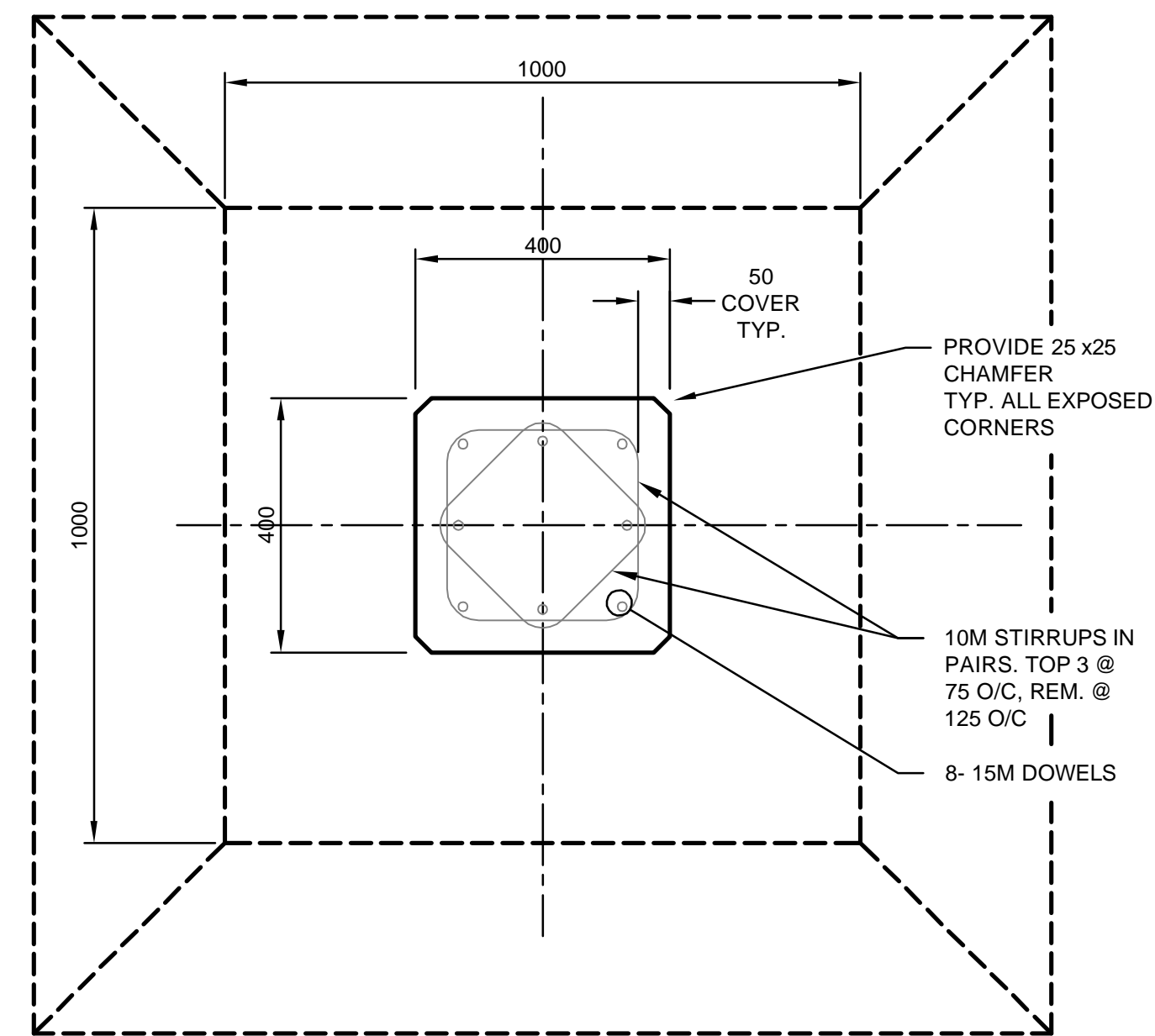
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1 DETAIL
1:10

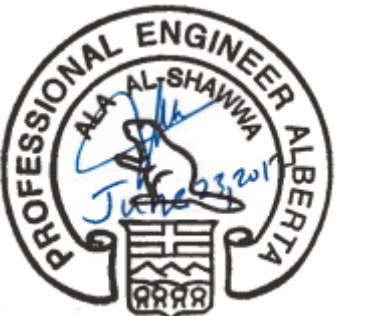


2 DETAIL
1:10



B SECTION
1:10

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ENGINEER ANY DISCREPANCIES.



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Revision / Révision	Detail number numéro de détail	Source drawing no. de dessin no.	Detail on drawing no. détail sur dessin no.
A	A	B	C
C			

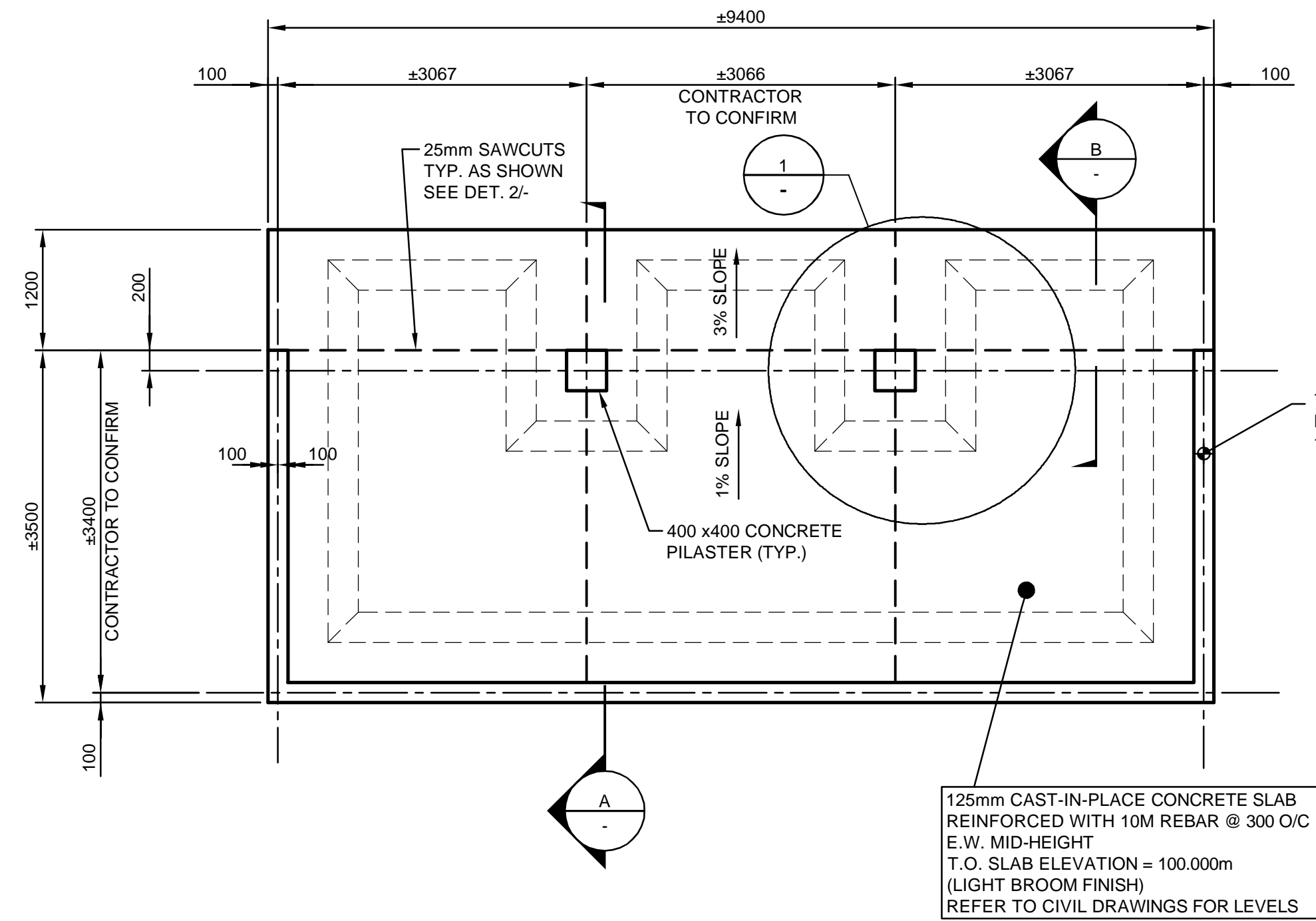
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
AECOM	

<h1>Canada</h1>		
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Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

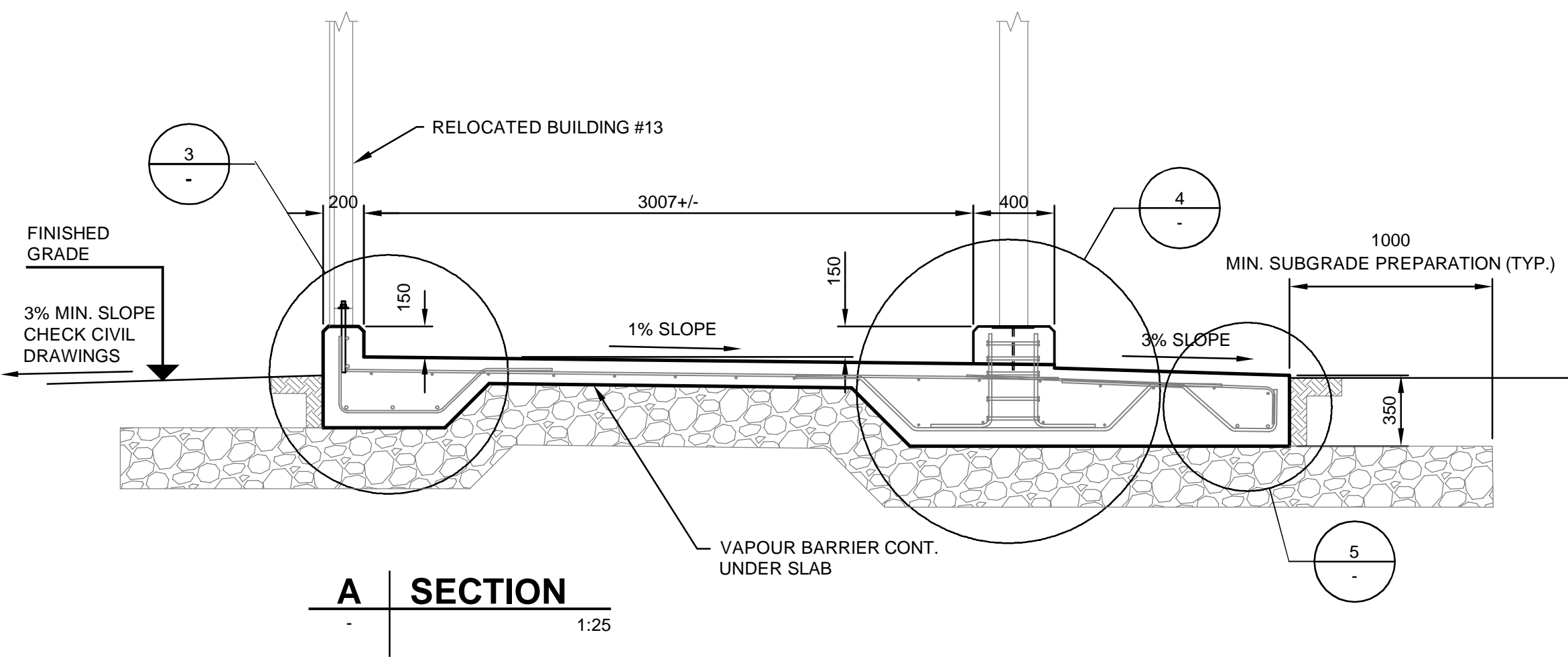
Project Title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing Title/Titre du dessin
**BUILDING #4
FOUNDATION & SLAB**

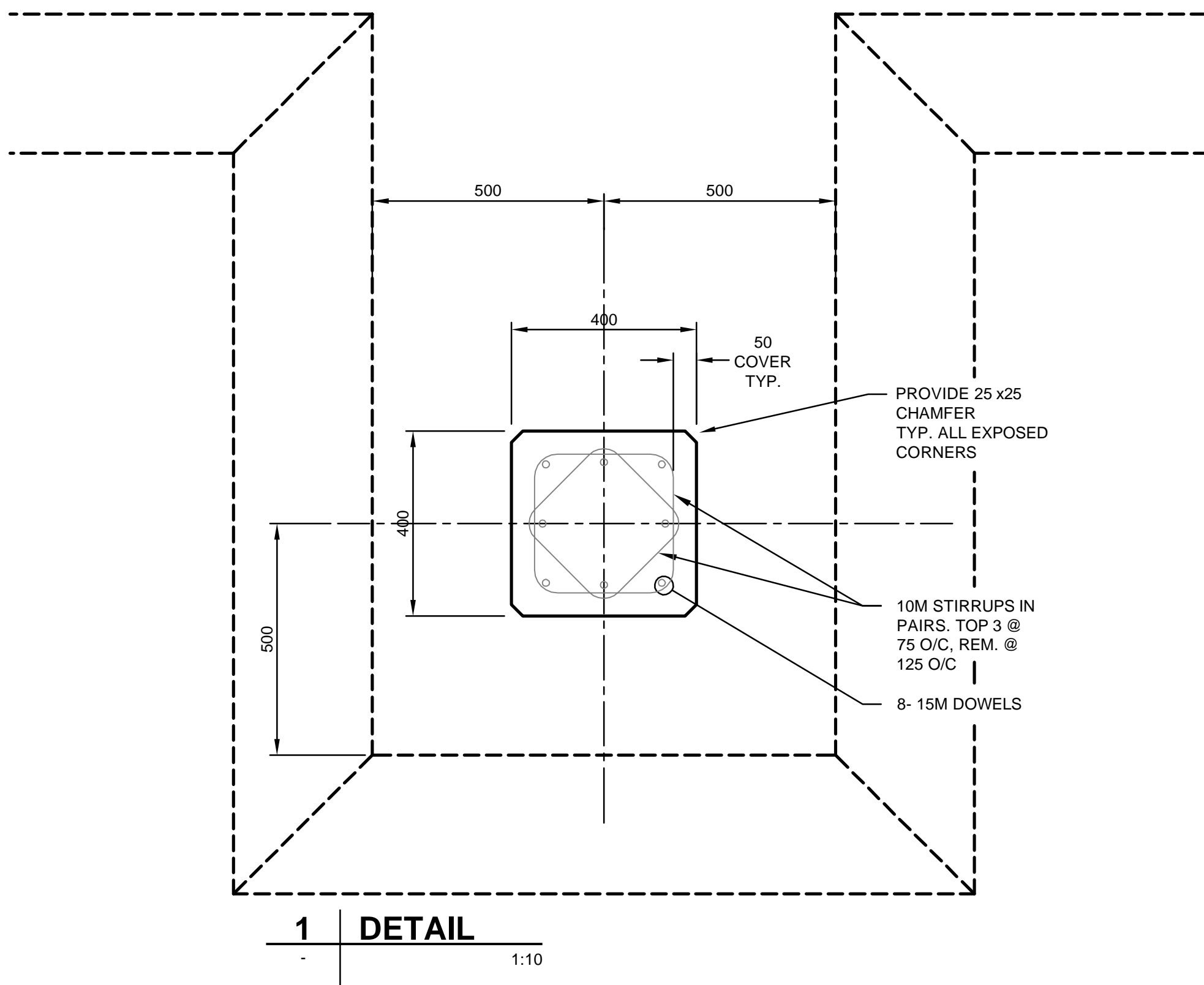
Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par SJB	Date/Date 2017-03-17
Designed by/Conçu par AA	Reviewed by/Revisé par -	Scale/Echelle AS NOTED
PWOSC Project Manager/Administrateur de Projets TPSCC -		
Client Acceptance/Acceptation du client Approved by/Approuvé par -		
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille 46 of 47
Drawing Reference No./No. de référence du dessin ST-2002		



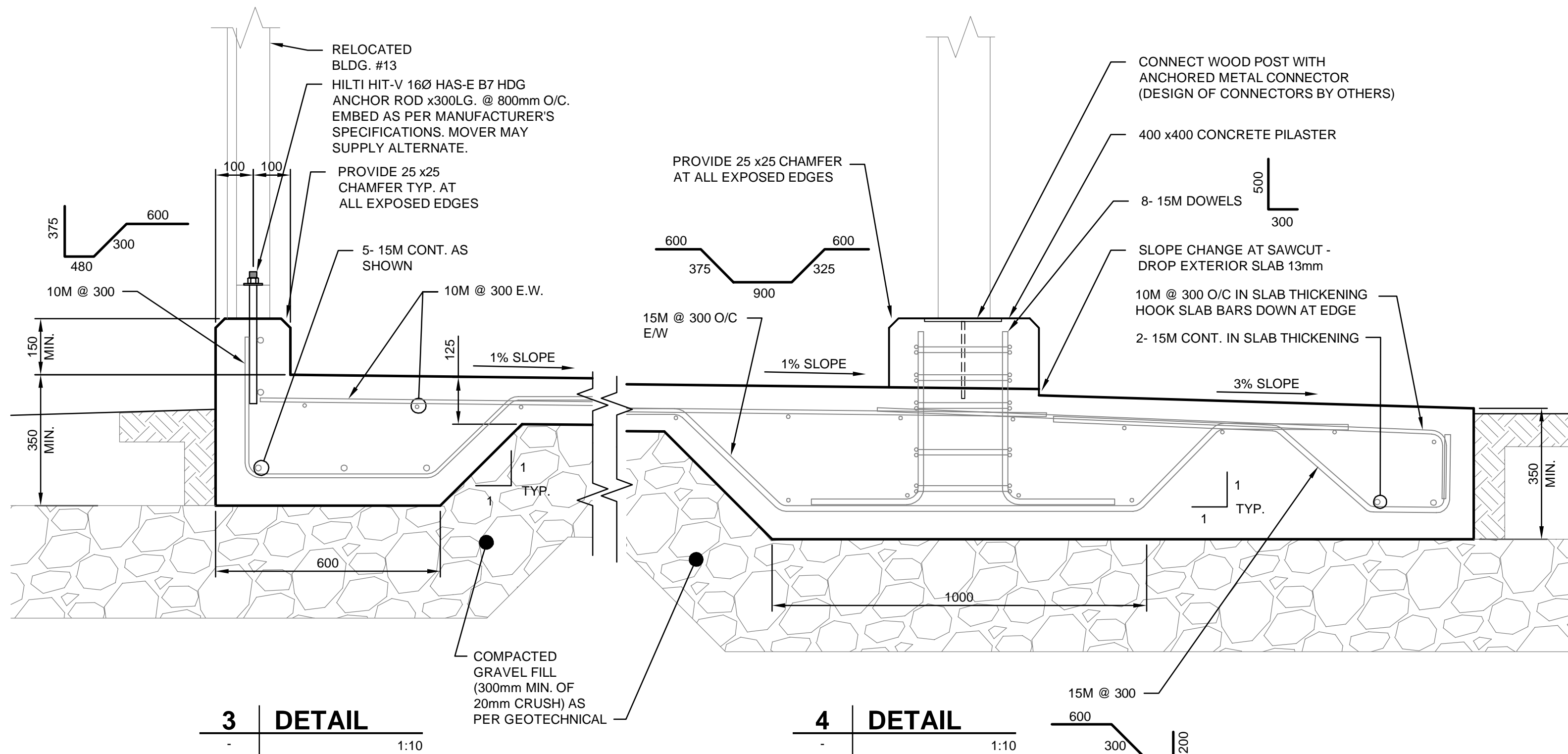
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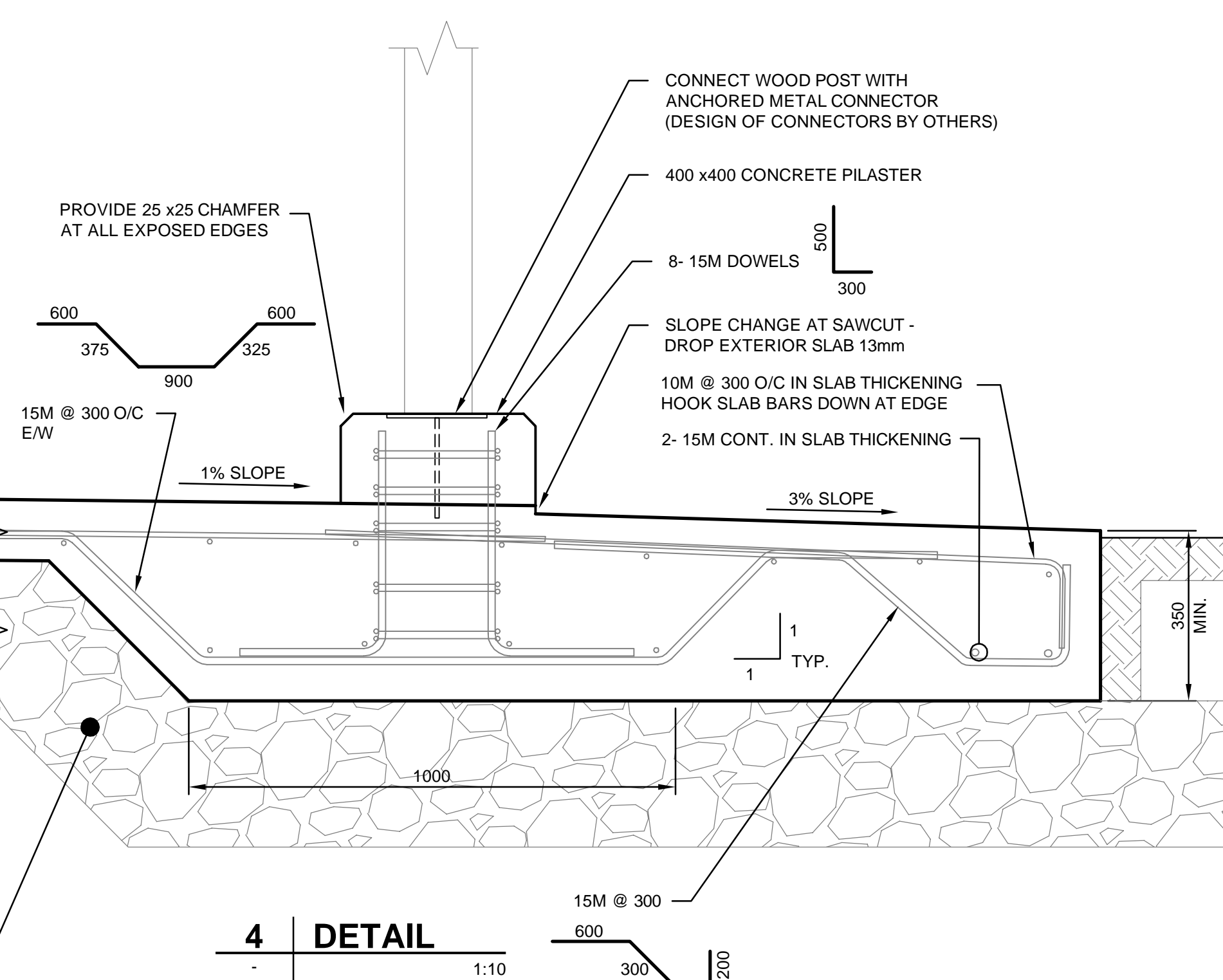
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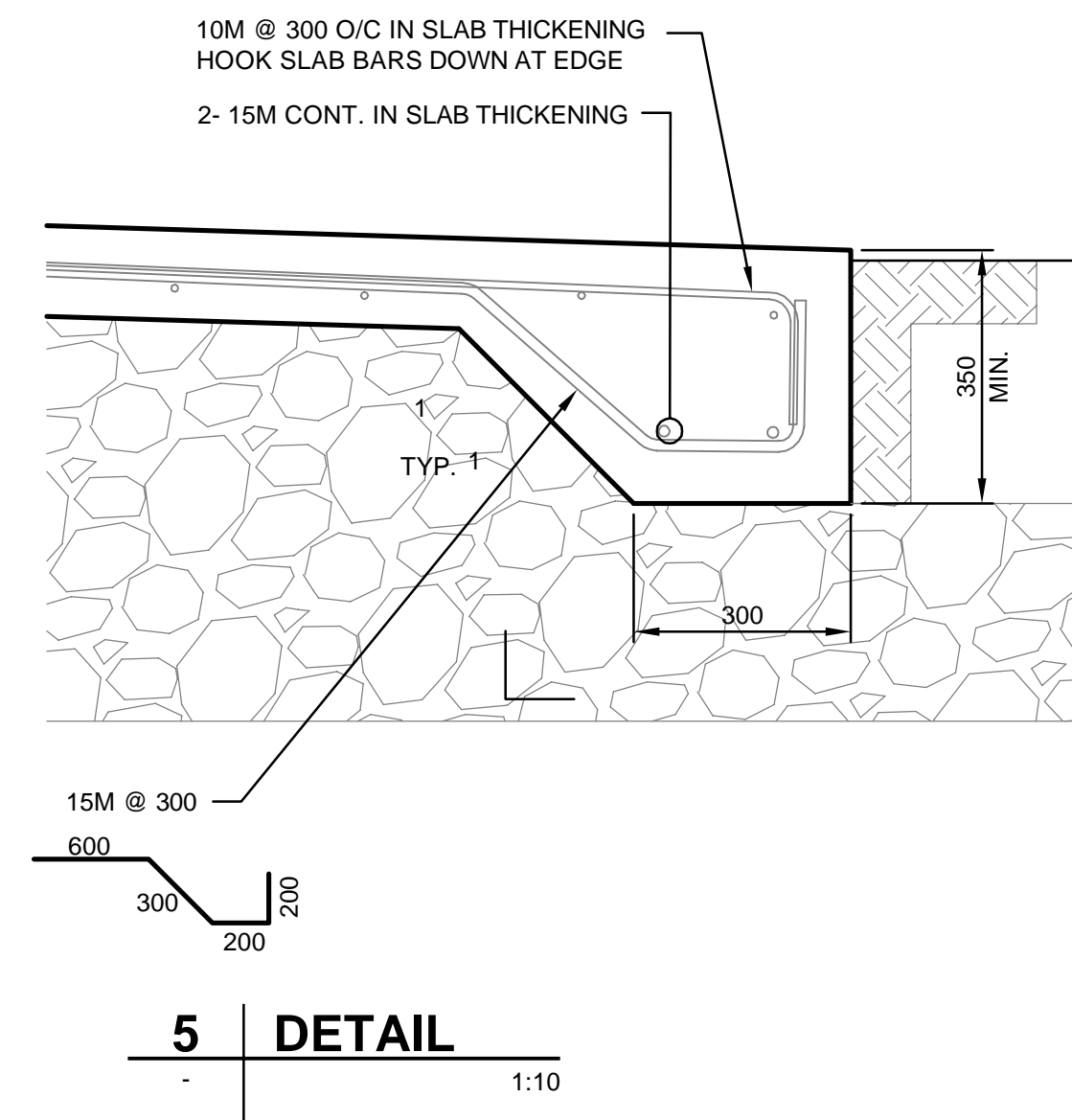
1 DETAIL
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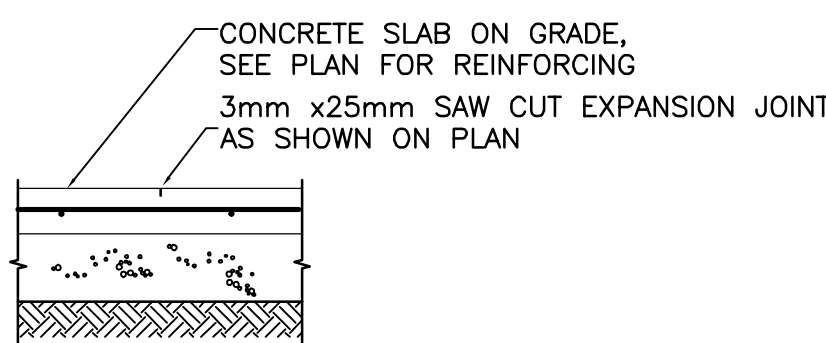
3 DETAIL
1:10



4 DETAIL
1:10



5 DETAIL
1:10



2 DETAIL
NTS

NOTE:
- ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND SHOULD REPORT TO THE ENGINEER ANY DISCREPANCIES.



NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA LTD.
THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
B	2017.06.23	ISSUED FOR TENDER	SJB	AA
A	2017.03.27	ISSUED FOR 95% REVIEW	SJB	AA

Revision / Révision	A	B	C
A	detail number numéro de détail		
B	source drawing no. de dessin no.		
C	detail on drawing no. détail sur dessin no.		

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



Cliant/client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
**WATERTON TOWNSITE
CAMPGROUND
IMPROVEMENTS
FII PROJECT NO. 943**

Drawing title/Titre du dessin
**BUILDING #13
FOUNDATION & SLAB**

Surveyed by/Arpenté par AECOM	Drawn by/Dessiné par SJB	Date/Date 2017-03-17
Designed by/Conçu par AA	Reviewed by/Revisé par -	Scale/Echelle AS NOTED
PWOSC Project Manager/Administrateur de Projets TPSCC -		
Client Acceptance/Acceptation du client Approved by/Approuvé par -		
Project No./No. du projet 60432200	Asset No./No. du bien -	Sheet No./ No. de la feuille 47 of 47
Drawing Reference No./No. de référence du dessin ST-2003		