



Public Works And
Government Services
Canada
Western Region

Travaux publics et
Services gouvernementaux
Canada
Région de l'Ouest

for

pour

Canadian Heritage
Parks Canada

Patrimoine Canadien
Parcs Canada

Waterton National Park

WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
PHASE A AND B

PROJECT No. R.075721.001

AUGUST 2015

PRELIMINARY
NOT FOR CONSTRUCTION

STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
24+057.7	5.134	F1	1288.665	LOCATE, CUT & CONNECT TO EXISTING 150mm LINE	
24+060.8	5.026	F3	1288.561	90° BEND	
24+060.9	-2.505	V2	1288.402	150mm GATE VALVE	
24+060.9	-1.500	F4	1288.424	150 x 150 x 150 TEE	
24+061.9	-1.500	V1	1288.400	150mm GATE VALVE	
24+153.1	6.785	H31	1286.229	HYDRANT #31, VALVE AND TEE	
24+264.7	-1.500	V3	1283.573	150mm GATE VALVE	
24+265.6	-1.500	F4	1283.554	150 x 150 x 150 TEE	
24+266.6	-1.500	V5	1283.533	150mm GATE VALVE	
24+303.4	-10.317	DV1		LOCATE, CUT & CONNECT DRAIN VALVE IN CHAMBER	
24+319.9	9.058	H33	1282.787	HYDRANT #33, VALVE AND TEE	
35+002.6	-1.308	V4	1283.567	150mm GATE VALVE	
35+004.5	-1.194	F19	1283.585	5" BEND	
60+011.8	0.000	F12	1286.199	11.25" BEND	
60+026.8	0.000	F13	1287.899	11.25" BEND	
60+056.8	0.000	SP1	1287.298	25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	

amec foster wheeler

Consultant's Name
Nom de l'expert-conseil
**Amec Foster Wheeler
Environment & Infrastructure**

Eng. Stamp
Sceau de l'ingénieur
**PROFESSIONAL ENGINEER
REGISTERED**

469 - 40th Street South
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P. ENG. DATE:

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER ADDENDUM #1	06/16/15
2	100% DESIGN COMPLETION	07/13/15
1	75% DESIGN COMPLETION	07/01/15
0	50% DESIGN COMPLETION	05/17/15

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

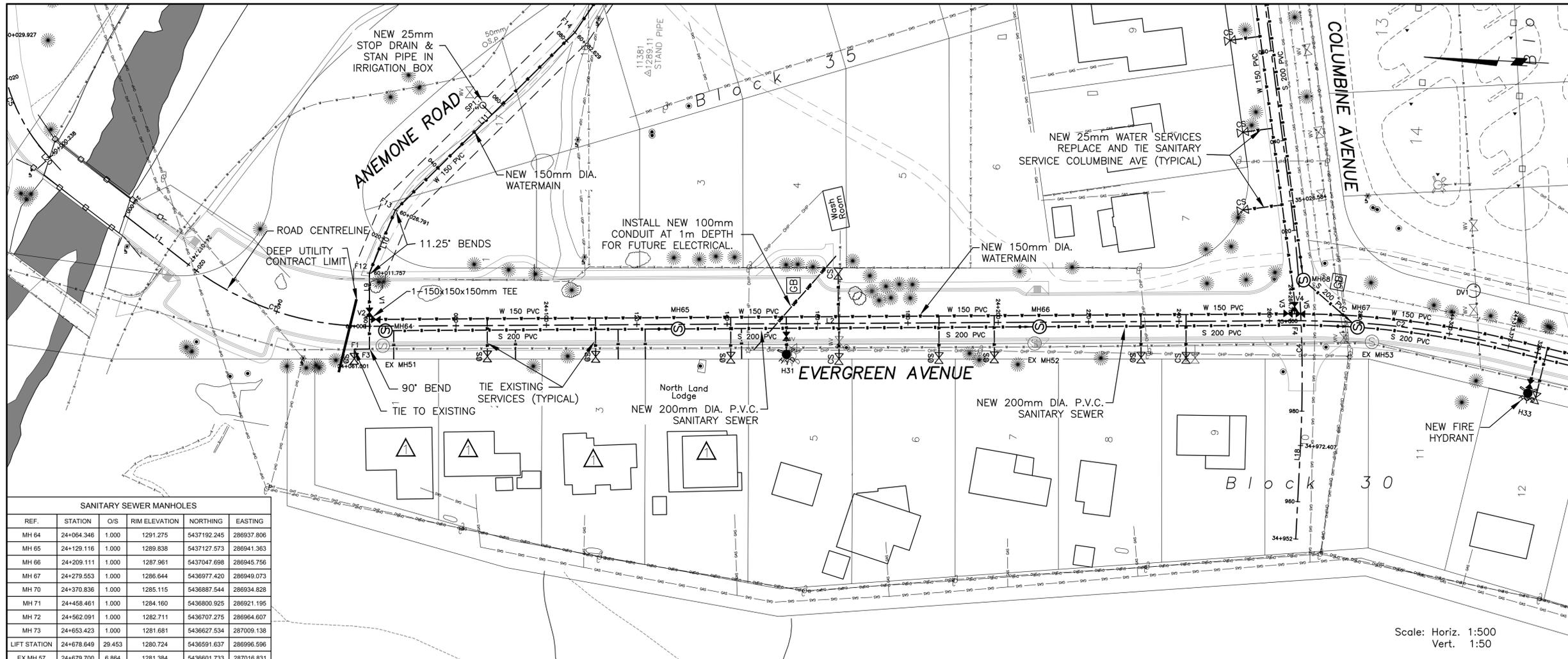
Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

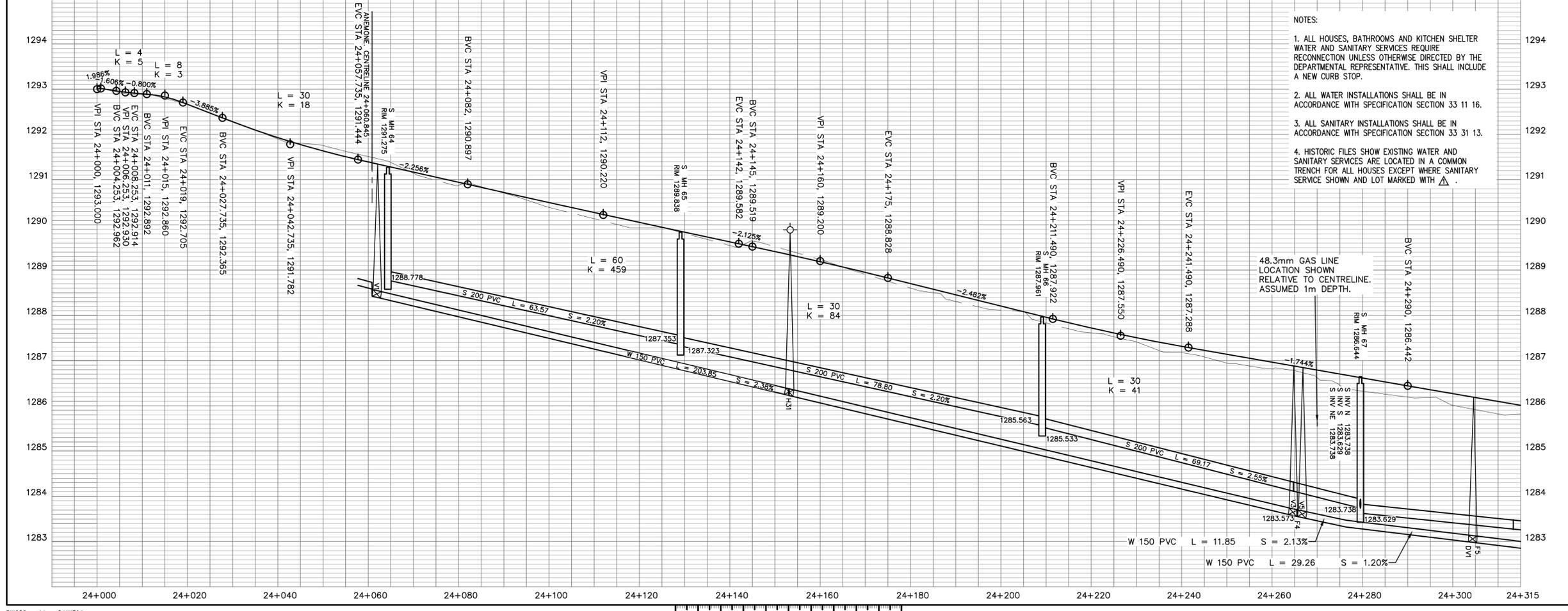
Approved by/Approuvé par
Designed by/Concept par
B. ZACHER
Drawn by/Dessiné par
B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client
J. LAMBE
Drawing title/Titre du dessin
**NEW UTILITIES
EVERGREEN AVENUE
SOUTH
PLAN PROFILE
Sta. 24+000 to Sta. 24+280**

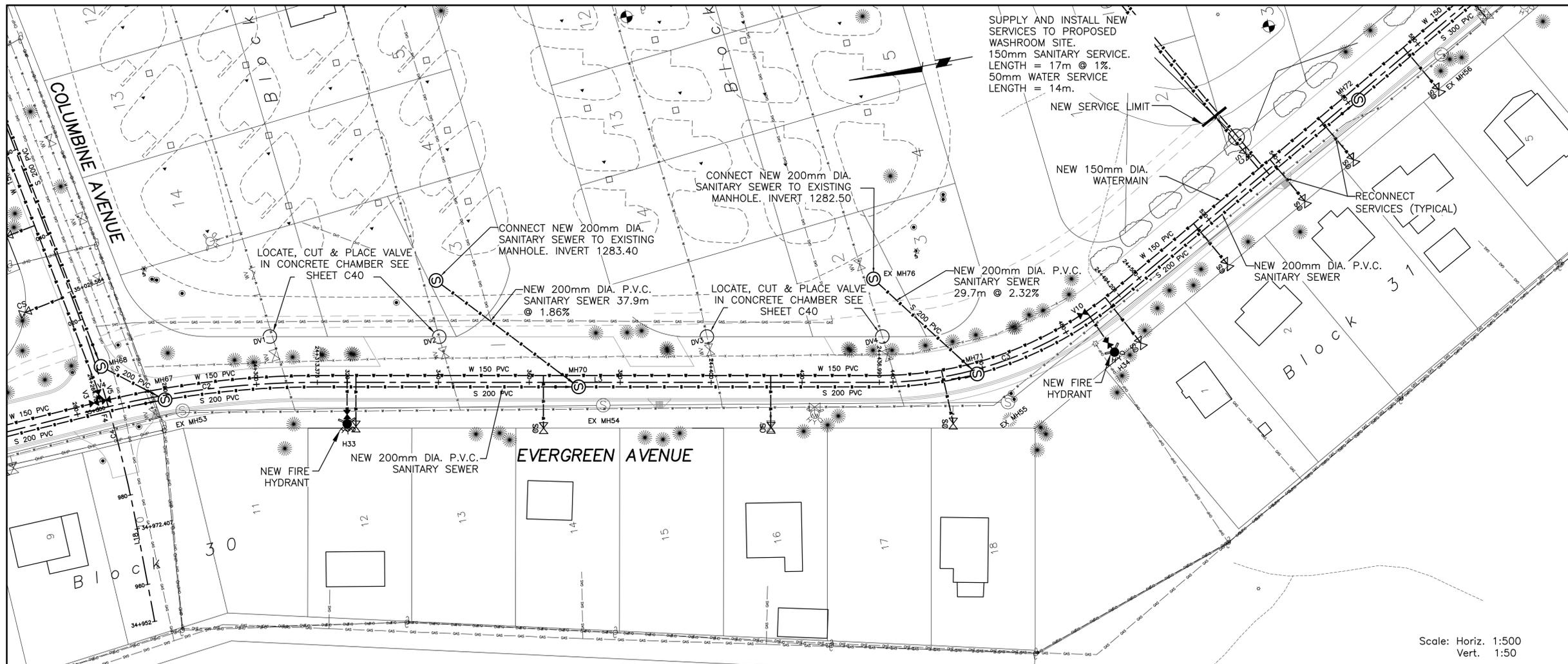
Project No./No. du projet
R.075721.001
Sheet/Feuille
C14
of 41
Revision no./La Révision no.
3



REF.	STATION	O/S	RIM ELEVATION	NORTHING	EASTING
MH 64	24+064.346	1.000	1291.275	5437192.245	286937.806
MH 65	24+129.116	1.000	1289.838	5437127.573	286941.363
MH 66	24+209.111	1.000	1287.961	5437047.698	286945.756
MH 67	24+279.553	1.000	1286.644	5436977.420	286949.073
MH 70	24+370.836	1.000	1285.115	5436887.544	286934.828
MH 71	24+458.461	1.000	1284.180	5436800.925	286921.195
MH 72	24+562.091	1.000	1282.711	5436707.275	286964.607
MH 73	24+653.423	1.000	1281.681	5436627.534	287009.138
LIFT STATION	24+678.649	29.453	1280.724	5436591.637	286996.596
EX MH 57	24+679.700	6.864	1281.384	5436601.733	287016.831



- NOTES:
- ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. THIS SHALL INCLUDE A NEW CURB STOP.
 - ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
 - ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
 - HISTORIC FILES SHOW EXISTING WATER AND SANITARY SERVICES ARE LOCATED IN A COMMON TRENCH FOR ALL HOUSES EXCEPT WHERE SANITARY SERVICE SHOWN AND LOT MARKED WITH Δ .



Scale: Horiz. 1:500
Vert. 1:50

WATERMAIN DATA

STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
24+264.7	-1.500	V3	1283.573	150mm GATE VALVE	
24+265.6	-1.500	F4	1283.554	150 x 150 x 150 TEE	
24+266.6	-1.500	V5	1283.533	150mm GATE VALVE	
24+303.4	-10.317	DV1		LOCATE, CUT & CONNECT DRAIN VALVE IN CHAMBER	
24+319.9	9.058	H33	1282.787	HYDRANT #33 VALVE AND TEE	
24+340.2	-10.000	DV2		LOCATE, CUT & CONNECT DRAIN VALVE IN CHAMBER	
24+399	-10.051	DV3		LOCATE, CUT & CONNECT DRAIN VALVE IN CHAMBER	
24+437.7	-10.055	DV4		LOCATE, CUT & CONNECT DRAIN VALVE IN CHAMBER	
24+485.2	-1.500	V10	1280.709	150mm GATE VALVE	
24+486.3	9.420	H34	1280.698	HYDRANT #34 VALVE AND TEE	
35+002.6	-1.308	V4	1283.567	150mm GATE VALVE	
35+004.5	-1.194	F19	1283.585	5' BEND	

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Eng. Stamp / Scellum de l'ingénieur: PROFESSIONAL ENGINEER (L.B.E.T.A.)
 P. ENG. DATE:

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER ADDENDUM #1	06/16/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18

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

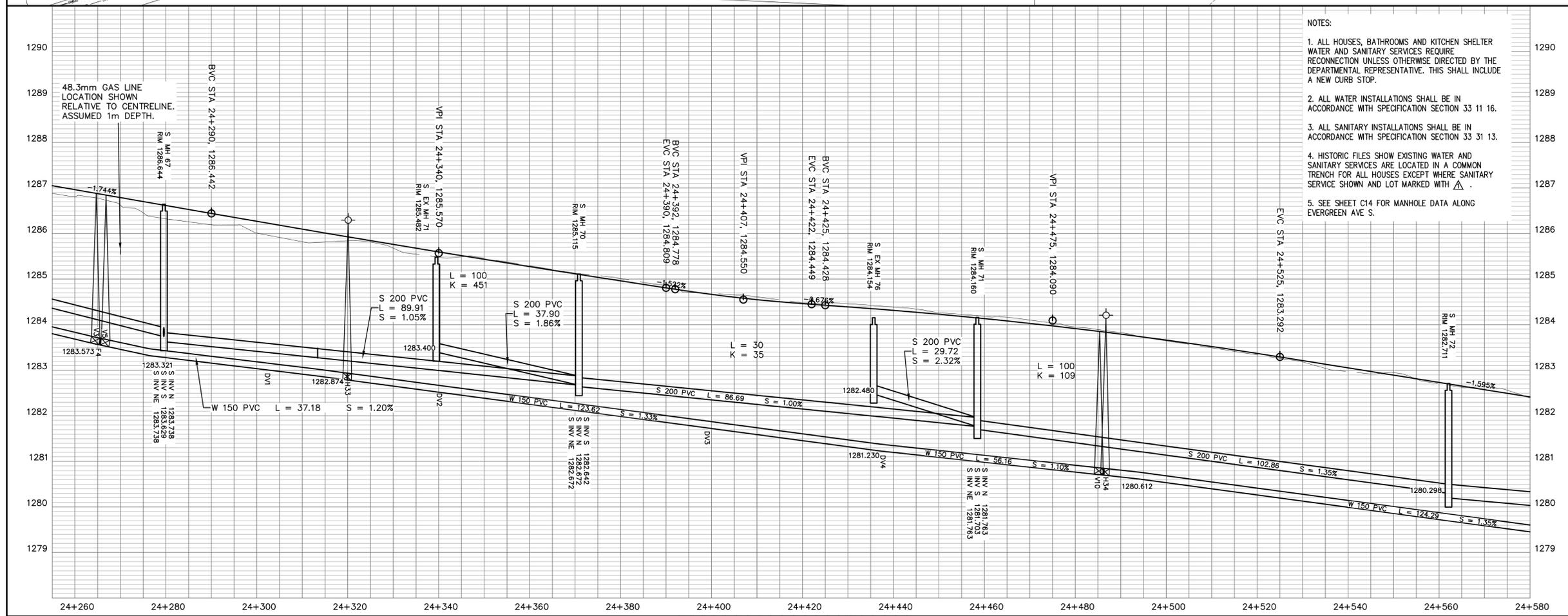
Canada

Project title/Titre du projet:
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par: B. ZACHER
 Designed by/Concept par: B. JOHNSON
 Drawn by/Dessiné par: M. BURKE
 PWGSC Project Manager/Administrateur de Projets TPSGC
 PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

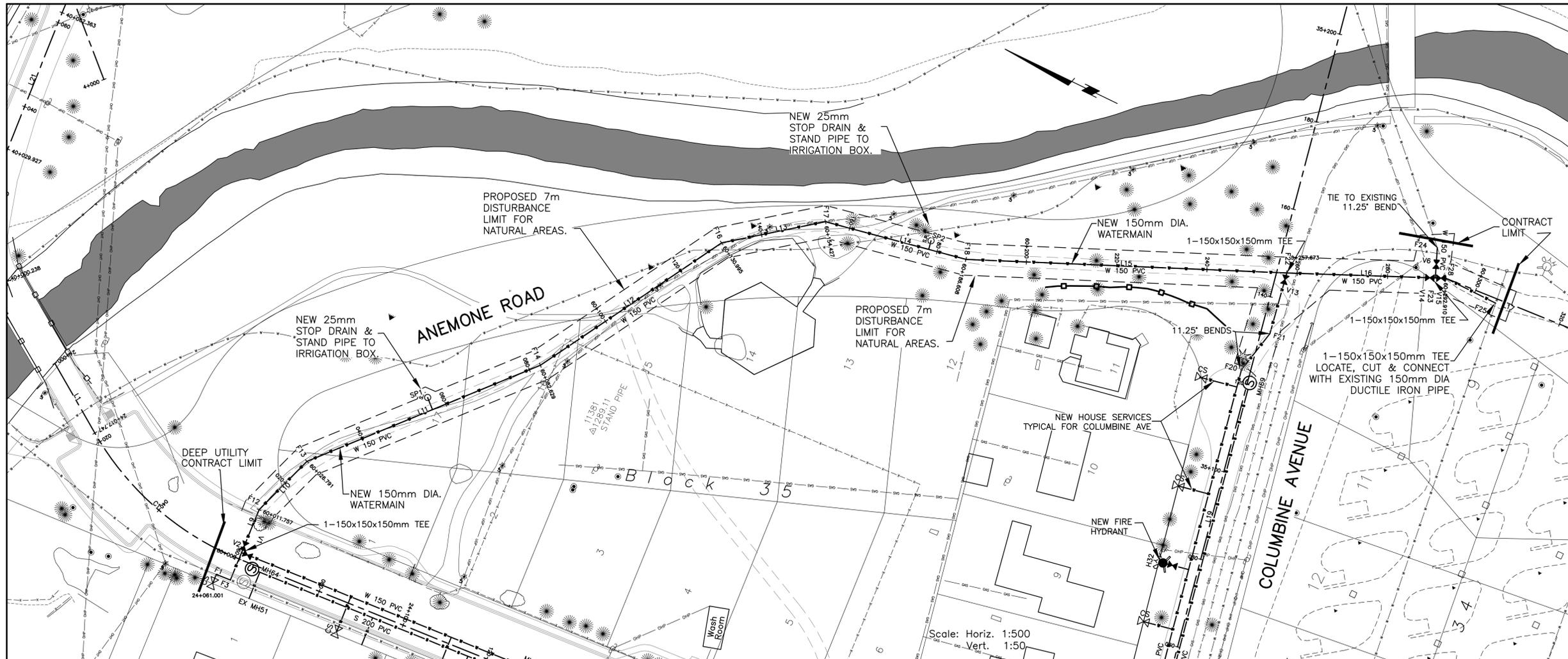
Client/client: J. LAMBE
 Drawing title/Titre du dessin:
NEW UTILITIES EVERGREEN AVENUE SOUTH PLAN PROFILE
 Sta. 24+280 to Sta. 24+540

Project No./No. du projet: R.075721.001	Sheet/Feuille: C15 OF 41	Revision no./La Révision no.: 3
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- NOTES:
1. ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. THIS SHALL INCLUDE A NEW CURB STOP.
 2. ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
 3. ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
 4. HISTORIC FILES SHOW EXISTING WATER AND SANITARY SERVICES ARE LOCATED IN A COMMON TRENCH FOR ALL HOUSES EXCEPT WHERE SANITARY SERVICE SHOWN AND LOT MARKED WITH Δ .
 5. SEE SHEET C14 FOR MANHOLE DATA ALONG EVERGREEN AVE S.

PRELIMINARY
NOT FOR CONSTRUCTION



STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
24+060.9	-2.505	V2	1288.402	150mm GATE VALVE	
24+060.9	-1.200	F2	1288.424	150 X 150 X 150 TEE	
24+274.5	-159.819	V6	1284.063	150mm GATE VALVE	
35+122.8	-2.200	F20	1283.800	11.25° BEND	
35+132.1	2.048	F21	1283.818	11.25° BEND	
35+144.5	2.195	V13	1283.770	150mm GATE VALVE	
60+011.8	0.000	F12	1288.199	11.25° BEND	
60+028.8	0.000	F13	1287.899	11.25° BEND	
60+056.8	0.000	SP1	1287.298	25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
60+082.6	0.000	F14	1296.782	11.25° BEND	
60+131	0.000	F16	1296.008	22.5° BEND	
60+154.4	0.000	F17	1295.633	22.5° BEND	
60+178.1	0.000	SP2	1285.205	25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
60+186.6	0.000	F18	1285.051	11.25° BEND	
60+257.7	0.000	F22	1283.764	150 X 150 X 150 TEE	
60+289.8	0.000	V14	1283.998	150mm GATE VALVE	
60+290.8	0.000	F23	1284.003	150 X 150 X 150 TEE	
60+290.8	-6.717	F24	1284.137	LOCATE, CUT & CONNECT TO EXISTING 150mm LINE. S&I 11.25° BEND	
60+291.8	0.000	V15	1284.010	150mm GATE VALVE	
60+292.9	0.000	F28	1284.020	LOCATE, CUT & CONNECT TO EXISTING LINE. S&I 150 X 150 X 150 TEE	
60+305.2	0.981	F25	1284.020	LOCATE, CUT & CONNECT TO EXISTING LINE. S&I 150 X 150 X 150 TEE	



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Sciau de l'ingénieur
PROFESSIONAL ENGINEER
B. ZACHER
P. ENG. DATE:

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	08/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18

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

Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par
B. ZACHER

Designed by/Concept par
B. JOHNSON

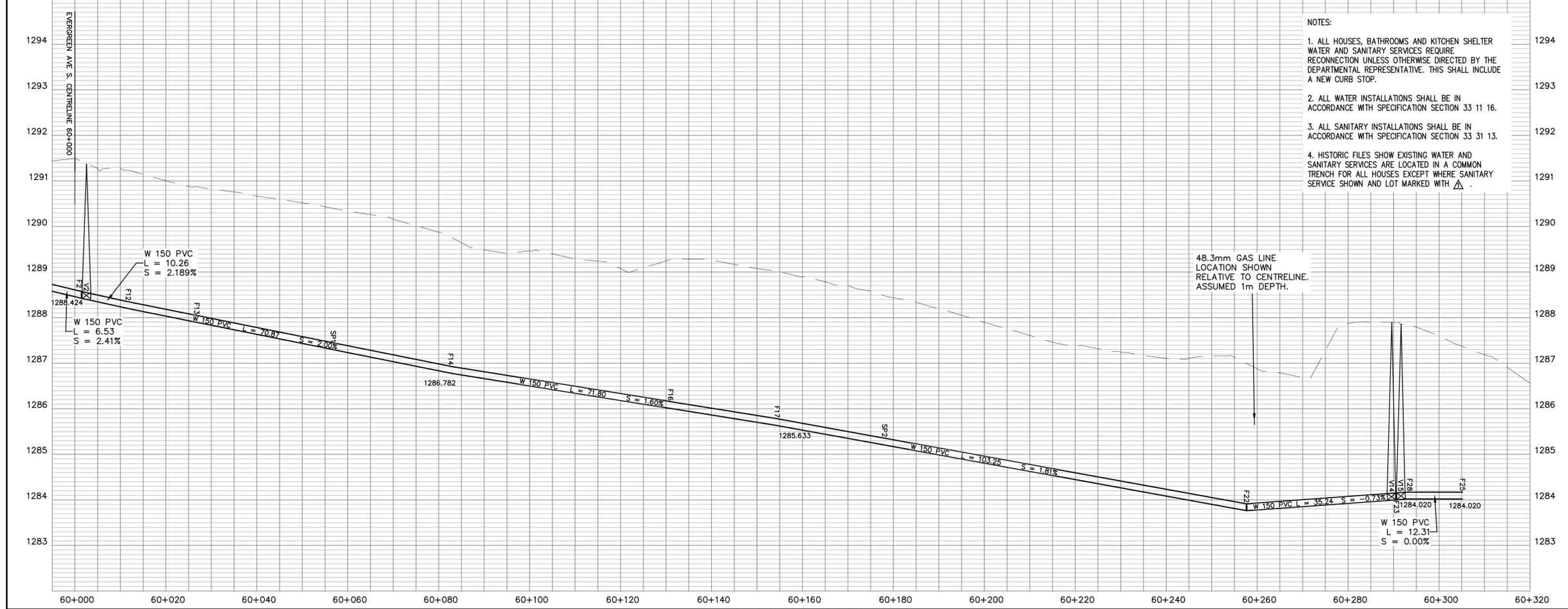
PWSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC
J. LAMBE

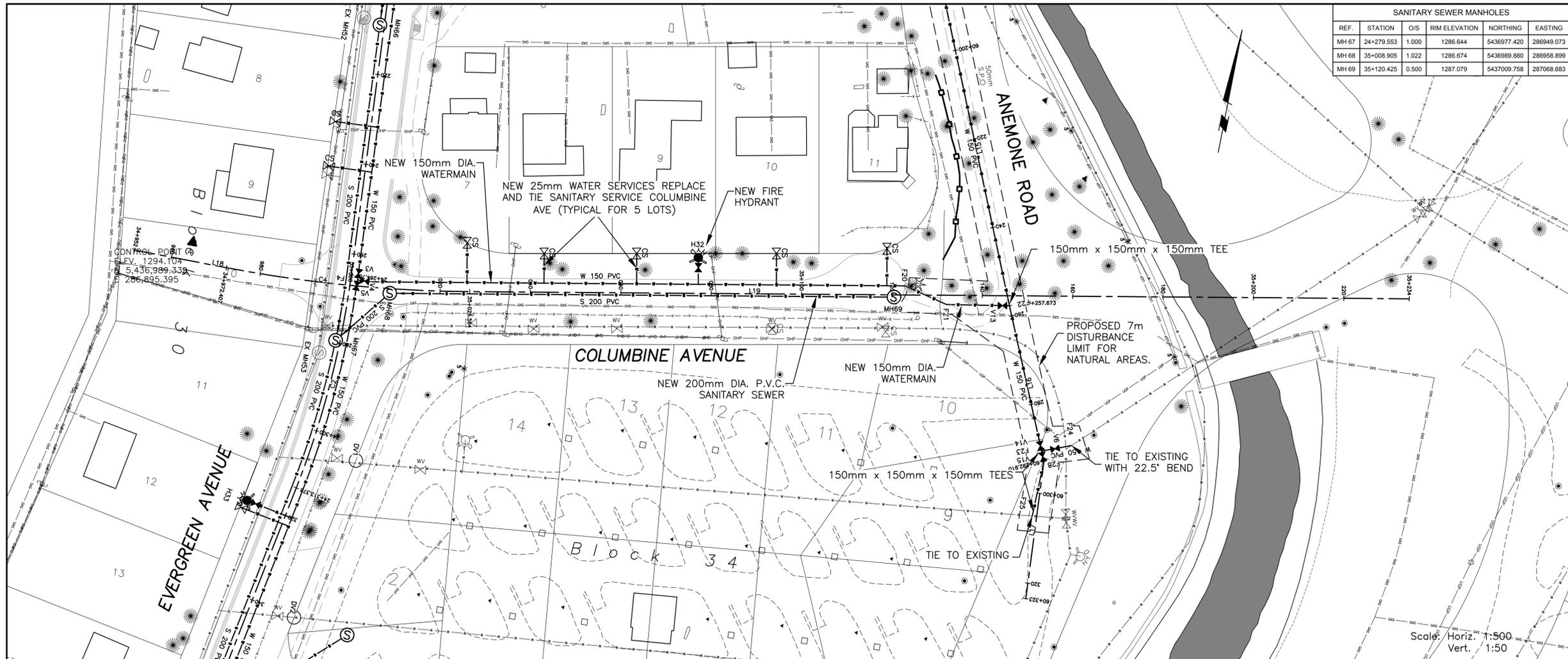
Client/client
J. LAMBE

Drawing title/Titre du dessin
NEW UTILITIES ANEMONE ROAD PLAN PROFILE
Sta. 60+000 to 60+300

Project No./No. du projet R.075721.001	Sheet/Feuille C17 OF 41	Revision no./La Révision no. 3
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- NOTES:
- ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. THIS SHALL INCLUDE A NEW CURB STOP.
 - ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
 - ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
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SANITARY SEWER MANHOLES					
REF.	STATION	O/S	RIM ELEVATION	NORTHING	EASTING
MH 67	24+279.553	1.000	1286.644	5436977.420	286949.073
MH 68	35+008.905	1.022	1286.674	5436989.880	286958.899
MH 69	35+120.425	0.500	1287.079	5437009.758	287068.683

Public Works and Services / Travaux publics et Services gouvernementaux
 Canada
REAL PROPERTY SERVICES
 Western Region
SERVICES IMMOBILIERS
 Région de l'ouest

PRELIMINARY
 NOT FOR CONSTRUCTION

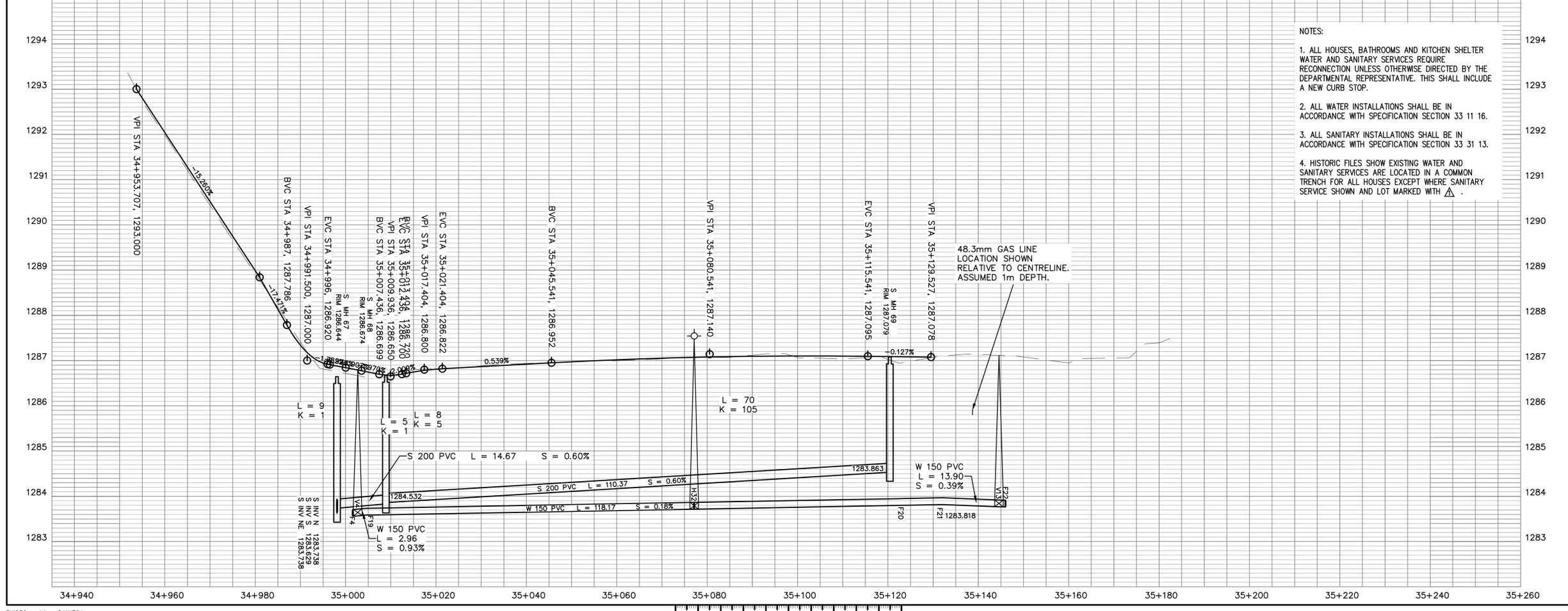
WATERMAIN DATA					
STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
24+264.7	-1.500	V3	1283.673	150mm GATE VALVE	
24+265.6	-1.500	F4	1283.554	150 x 150 x 150 TEE	
24+266.6	-1.500	V5	1283.533	150mm GATE VALVE	
24+274.5	-159.819	V6	1284.063	150mm GATE VALVE	
24+303.4	-10.317	DV1		LOCATE, CUT & CONNECT CORUM VALVE IN CHAMBER	
24+319.9	9.658	H33	1282.787	HYDRANT #33 VALVE AND TEE	
24+676.9	22.519	SP3		25mm STOP DRINK & STAND PIPE TO BIRCHDALE BOK	
24+679.5	-8.416	F10	1278.235	22.5° BEND	
35+002.6	-1.308	V4	1283.567	150mm GATE VALVE	
35+004.5	-1.194	F19	1283.565	5° BEND	
35+077.1	-7.816	H32	1283.717	HYDRANT #32 VALVE AND TEE	
35+122.8	-2.000	F20	1283.800	11.25° BEND	
35+132.1	2.048	F21	1283.818	11.25° BEND	
35+144.5	2.195	V13	1283.770	150mm GATE VALVE	
60+257.7	0.000	F22	1283.764	150 x 150 x 150 TEE	
60+289.6	0.000	V14	1283.996	150mm GATE VALVE	
60+290.9	0.000	F23	1284.003	150 x 150 x 150 TEE	
60+290.8	-6.717	F24	1284.137	LOCATE, CUT & CONNECT TO EXISTING 150mm LINE, S&I 11.25° BEND	
60+291.6	0.000	V15	1284.010	150mm GATE VALVE	
60+292.9	0.000	F28	1284.020	11.5° BEND	
60+305.2	0.981	F25	1284.020	LOCATE, CUT & CONNECT TO EXISTING LINE, S&I 150 x 150 x 150 TEE	



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PROFESSIONAL ENGINEER
 (403) 329-1467
 P. ENG. DATE

DO NOT SCALE DRAWINGS



- NOTES:
- ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. THIS SHALL INCLUDE A NEW CURB STOP.
 - ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
 - ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
 - HISTORIC FILES SHOW EXISTING WATER AND SANITARY SERVICES ARE LOCATED IN A COMMON TRENCH FOR ALL HOUSES EXCEPT WHERE SANITARY SERVICE SHOWN AND LOT MARKED WITH Δ .

Revision/	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18

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

Canada
 Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par
 B. ZACHER
 B. JOHNSON
 PWGSC Project Manager/Administrateur de Projets TPSGC
 M. BURKE
 PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
 J. LAMBE
 Drawing title/Titre du dessin
NEW UTILITIES COLUMBINE AVENUE PLAN PROFILE
 Sta. 34+980 to 35+140

Project No./No. du projet R.075721.001	Sheet/Feuille C18 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

WATERMAIN DATA					
STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
9+067.8	-2.429	F11	1278.812	11.25' BEND	
9+063.5	-0.646	V12	1278.812	150mm GATE VALVE FLANGED PVC HOPE	
9+066.4	0.258	PB1	1278.812	BEGIN PIPE BURSTING HOPE THROUGH CAST IRON	
9+111.5	1.170	PB2	1278.812	END PIPE BURSTING HOPE THROUGH CAST IRON	
9+113	0.540	V16	1278.812	150mm GATE VALVE FLANGED PVC / HDPE 11.25' VERTICAL BEND	
9+118	-1.800	F28	1279.722	11.25' VERTICAL BEND	
9+221.5	9.100	H14	1279.573	HYDRANT #14 VALVE AND TEE	
9+231.9	-1.305	SP4	1279.559	25mm STOP DRAIN & STAND PIPE	
24+671.3	-1.500	F9	1278.235	45' BEND	
24+676.9	22.519	SP3		25mm STOP DRAIN & STAND PIPE TO REGULATION BOX	
24+679.5	-0.416	F10	1278.235	22.5' BEND	

NOTES:

1. ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE A NEW CURB STOP.
2. ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
3. ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
4. PIPE BURSTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 35 00.



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Eng. Stamp
Sceau de l'ingénieur
B. ZACHER
PROFESSIONAL ENGINEER
P. ENG.
DATE:

DO NOT SCALE DRAWINGS

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5		
4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18

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

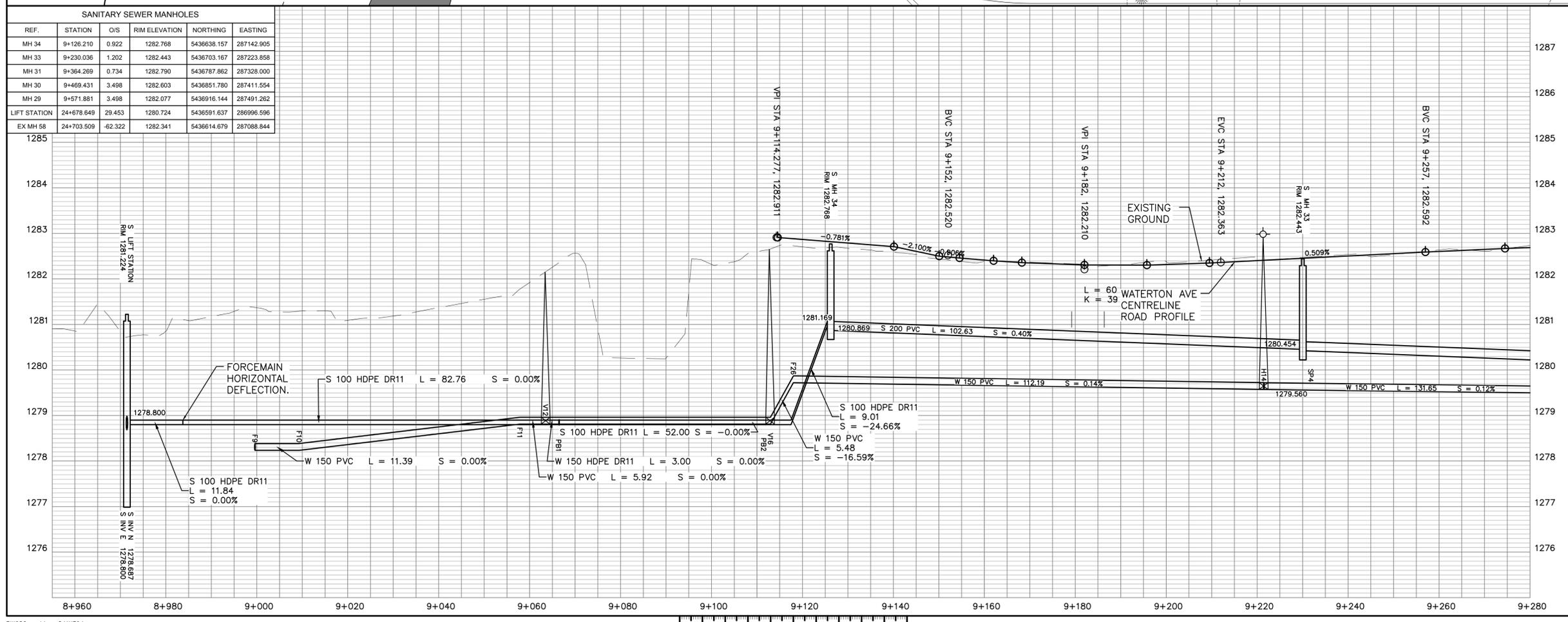
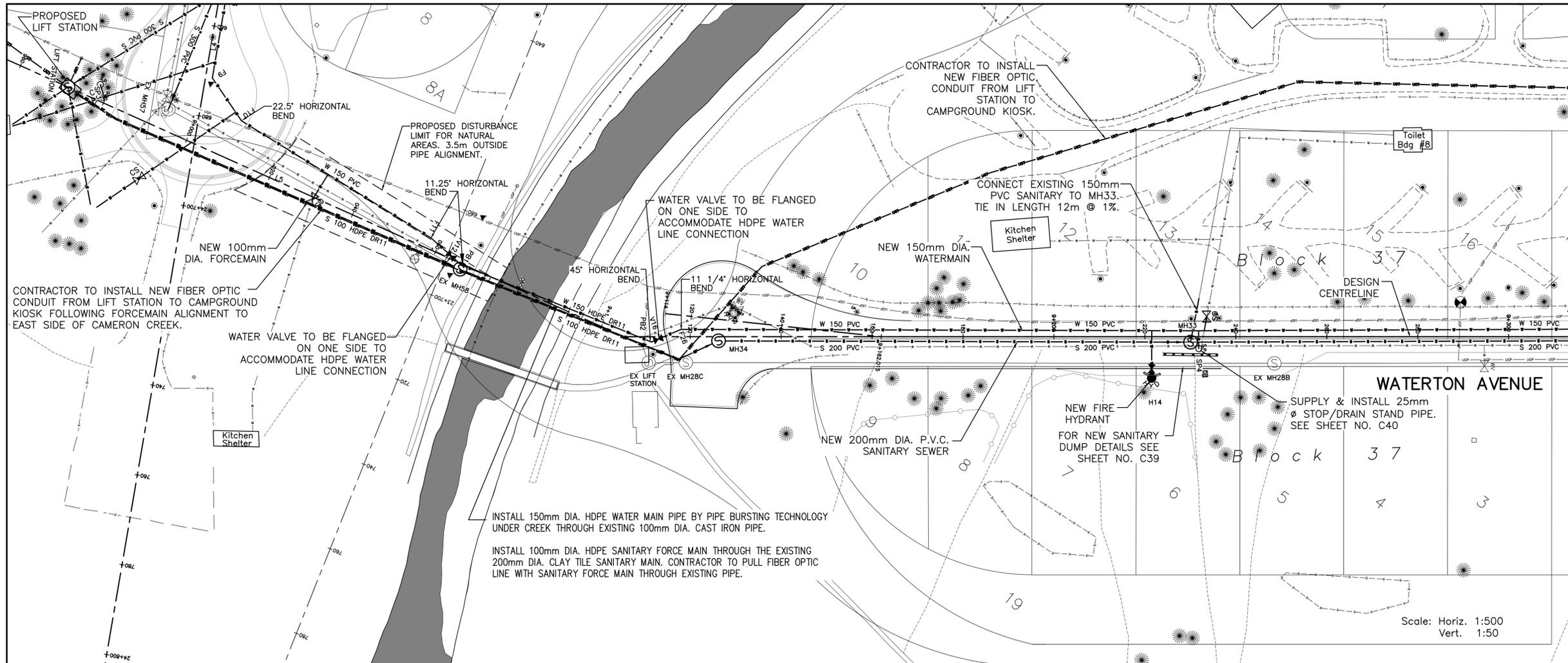
Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par
Designed by/Concept par
B. ZACHER
Drawn by/Dessiné par
B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
J. LAMBE
Drawing title/Titre du dessin
NEW UTILITIES WATERTON AVENUE PLAN PROFILE
Sta. 9+000 to Sta. 9+380

Project No./No. du projet R.075721.001	Sheet/Feuille C19 OF 41	Revision no./La Révision no. 2
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SANITARY SEWER MANHOLES					
REF.	STATION	O/S	RIM ELEVATION	NORTHING	EASTING
MH 34	9+126.210	0.922	1282.768	5436638.157	287142.905
MH 33	9+230.036	1.202	1282.443	5436703.167	287223.858
MH 31	9+364.269	0.734	1282.790	5436797.862	287328.000
MH 30	9+469.431	3.498	1282.603	5436851.780	287411.554
MH 29	9+571.881	3.498	1282.077	5436916.144	287491.262
LIFT STATION	24+678.649	29.453	1280.724	5436591.637	286996.596
EX MH 58	24+703.509	-62.322	1282.341	5436614.679	287088.844

PRELIMINARY
NOT FOR CONSTRUCTION

WATERMAIN DATA

STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
9+355.1	5.100	H13	1279.410	HYDRANT #13, VALVE AND TEE	
9+356.0	-1.813	V17	1279.408	150mm GATE VALVE	
9+429.1	7.086	SP5		25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
9+492.1	-3.786	H13A	1278.924	HYDRANT #13A, VALVE AND TEE	
9+493.0	0.998	V16	1278.918	150mm GATE VALVE	
9+503.0	8.130	SP6		25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
9+559.5	6.943	SP7		25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
9+563	-5.280	SP8		25mm STOP DRAIN & STAND PIPE TO IRRIGATION BOX	
9+571.1	0.998	F27	1278.608	LOCATE, CUT AND CONNECT TO EXISTING, S&45 BEND	
24+960.4	-353.296	V7	1279.400	150mm GATE VALVE	
24+966.5	-354.329	F29	1279.400	150 X 150 X 150 TEE	

- NOTES:
1. ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE A NEW CURB STOP.
 2. ALL WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 11 16.
 3. ALL SANITARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
 4. SEE SHEET C19 FOR MANHOLE DATA ALONG WATERTON AVE.



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Sceau de l'ingénieur
PROFESSIONAL ENGINEER
B. ZACHER
P. ENG.
DATE:

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Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	05/17/18

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 MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concepté par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

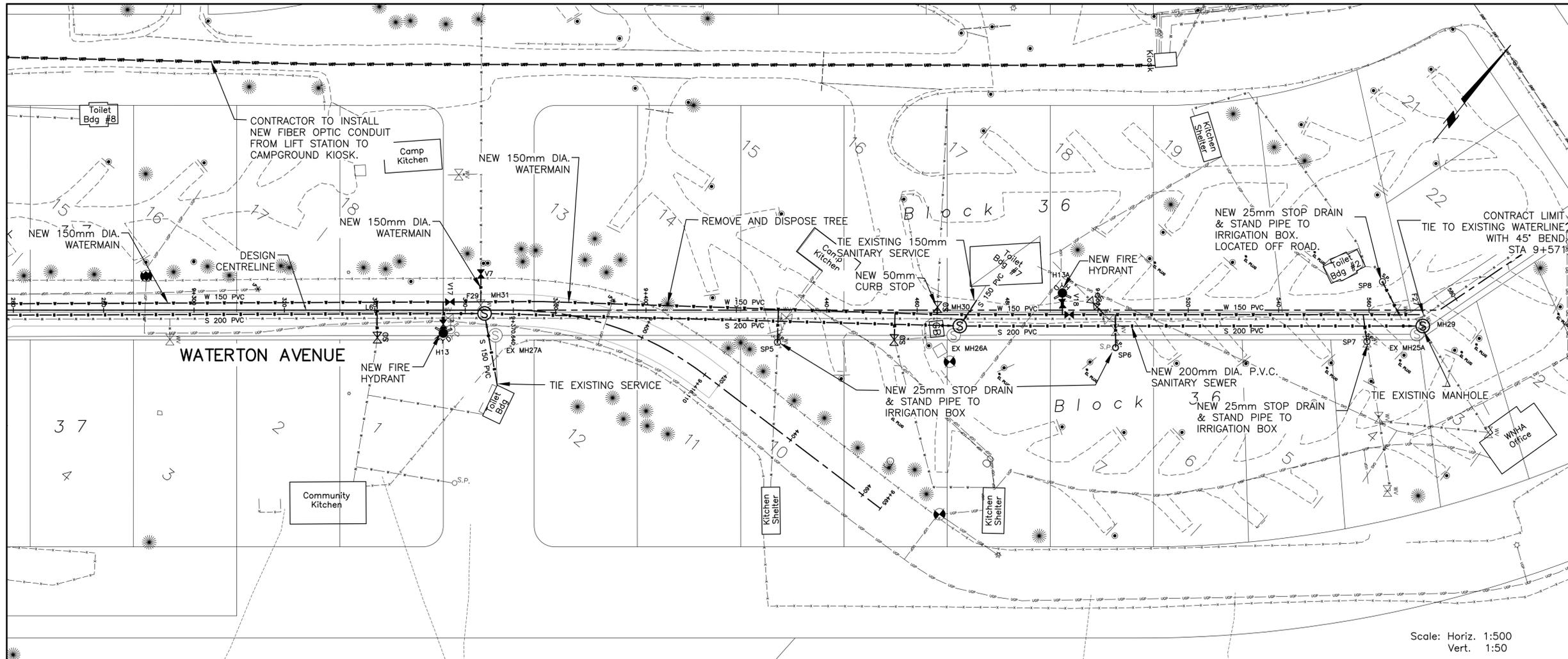
PWGC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWGC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

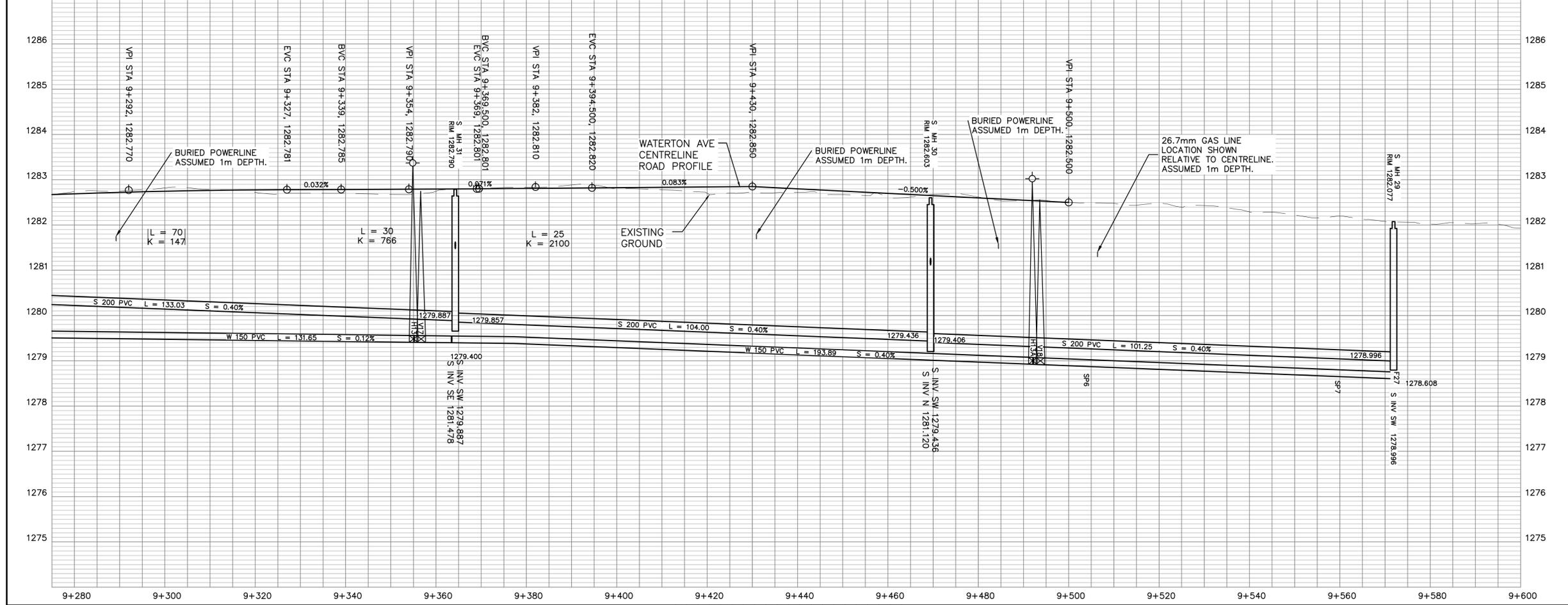
Client/client
J. LAMBE

Drawing title/Titre du dessin
NEW UTILITIES WATERTON AVE
PLAN PROFILE
Sta. 9+380 to Sta.9+660

Project No./No. du projet R.075721.001	Sheet/Feuille C20 OF 41	Revision no./La Révision no. 3
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Scale: Horiz. 1:500
Vert. 1:50



PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND

W	WATER VALVE
CS	CURB STOP
FH	FIRE HYDRANT
S.P.O.	STAND PIPE
W	WATER LINE
GAS	NATURAL GAS LINE
SS	STORM SEWER LINE
S	SANITARY SEWER LINE
SF	FORCED MAIN SANITARY SEWER
M	MANHOLE
C	CATCH BASIN
U	UTILITY POLE
UGT	UNDERGROUND TELEPHONE
UGP	UNDERGROUND POWER
OHT	OVERHEAD TELEPHONE
OHP	OVERHEAD POWER
B	BOREHOLE
SL	STREET LIGHT
WR1	WHEELCHAIR RAMP TYPE 1
WR2	WHEELCHAIR RAMP TYPE 2
P	POST
F	FENCE
T	TREE
GB	GARBAGE CAN



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Revision/	Description/Description	Date/Date

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

Canada

Projet/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B**
WATERTON NATIONAL PARK
ALBERTA

Approved by/Approve par

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Drawn by/Dessine par
B. JOHNSON

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M. BURKE

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Ressources Architectural et de Directeur d'ingénierie, TPSSC

Client/Client
J. LAMBE

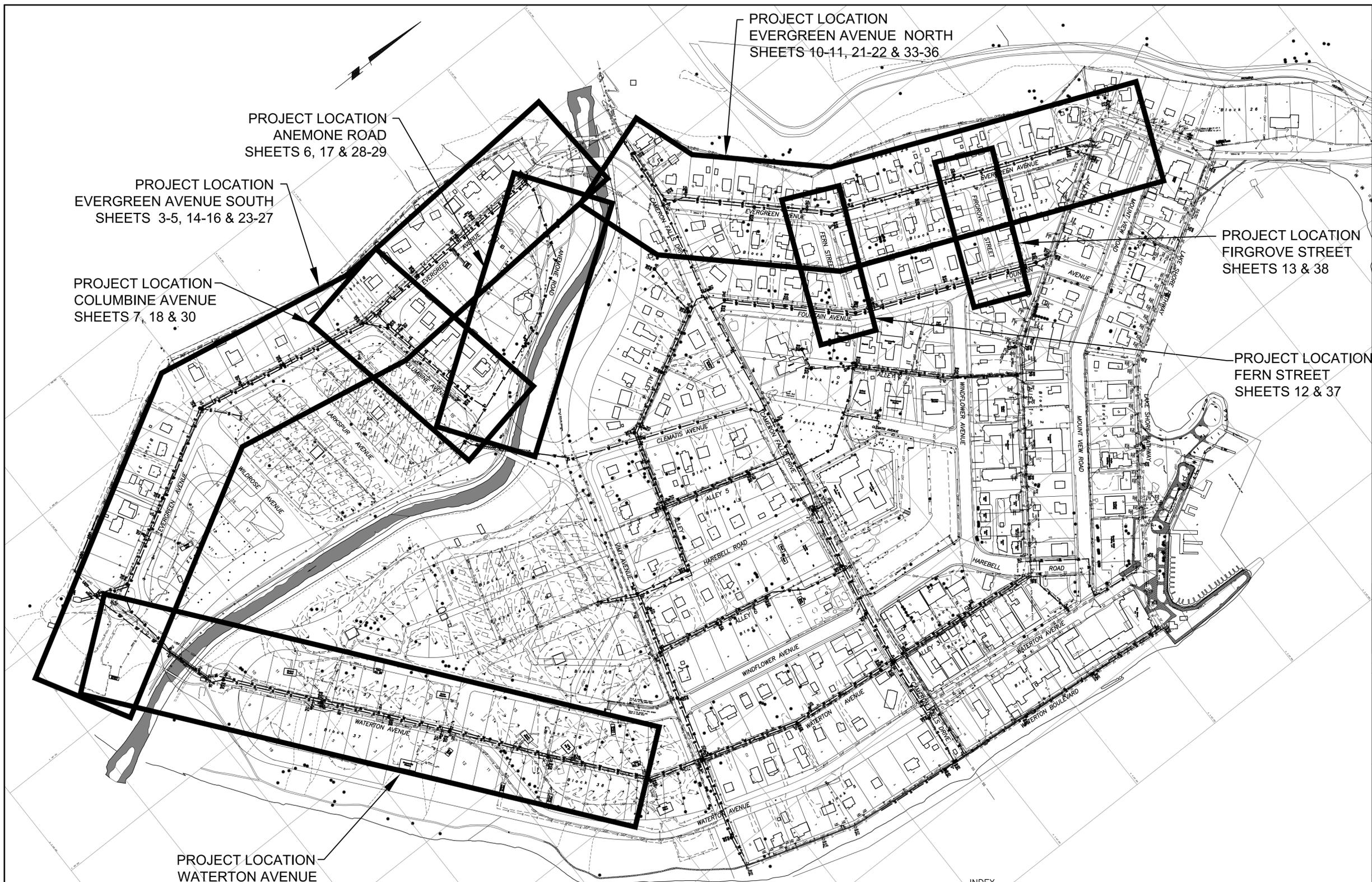
Drawing title/Titre du dessin

SITE PLAN & INDEX

Project No./No. du projet
R.075721.001

Sheet/Feuille
C2
OF 41

Revision no./La Révision no.
3



PROJECT LOCATION
ANEMONE ROAD
SHEETS 6, 17 & 28-29

PROJECT LOCATION
EVERGREEN AVENUE SOUTH
SHEETS 3-5, 14-16 & 23-27

PROJECT LOCATION
COLUMBINE AVENUE
SHEETS 7, 18 & 30

PROJECT LOCATION
EVERGREEN AVENUE NORTH
SHEETS 10-11, 21-22 & 33-36

PROJECT LOCATION
FIRGROVE STREET
SHEETS 13 & 38

PROJECT LOCATION
FERN STREET
SHEETS 12 & 37

PROJECT LOCATION
WATERTON AVENUE
SHEETS 8-9, 19-20 & 31-32

WATERTON TOWNSITE

Scale: 1:2000

1	COVER SHEET	13	FIRGROVE STREET – PLAN PROFILE REMOVAL & ADJUSTMENTS	28–29	ANEMONE ROAD – PLAN PROFILE SURFACE IMPROVEMENTS
2	SITE PLAN & INDEX	14–16	EVERGREEN AVENUE SOUTH – PLAN PROFILE NEW UTILITIES	30	COLUMBINE AVENUE – PLAN PROFILE SURFACE IMPROVEMENTS
3–5	EVERGREEN AVENUE SOUTH – PLAN PROFILE REMOVAL & ADJUSTMENT	17	ANEMONE ROAD – PLAN PROFILE NEW UTILITIES	31–32	WATERTON AVENUE – PLAN PROFILE SURFACE IMPROVEMENTS
6	ANEMONE ROAD – PLAN PROFILE REMOVAL & ADJUSTMENT	18	COLUMBINE AVENUE – PLAN PROFILE NEW UTILITIES	33–36	EVERGREEN AVENUE NORTH SURFACE IMPROVEMENTS
7	COLUMBINE AVENUE – PLAN PROFILE REMOVAL & ADJUSTMENT	19–20	WATERTON AVENUE – PLAN PROFILE NEW UTILITIES	37	FERN STREET – PLAN PROFILE SURFACE IMPROVEMENTS
8–9	WATERTON AVENUE – PLAN PROFILE REMOVAL & ADJUSTMENT	21–22	EVERGREEN AVENUE NORTH – PLAN PROFILE NEW UTILITIES	38	FIRGROVE STREET – PLAN PROFILE SURFACE IMPROVEMENTS
10–11	EVERGREEN AVENUE NORTH – PLAN PROFILE REMOVAL & ADJUSTMENT	23–27	EVERGREEN AVENUE SOUTH – PLAN PROFILE SURFACE IMPROVEMENTS	39–40	DETAILS SHEETS
12	FERN STREET – PLAN PROFILE REMOVAL & ADJUSTMENTS			41	TYPICAL SECTIONS

INDEX



PRELIMINARY
NOT FOR CONSTRUCTION

STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
4+029.2	4.347	F101		LOCATE, CUT AND CONNECT TO EXISTING 841 300 X 300 X 200 TEE	
4+031.5	3.160	V101	1293.528	200mm GATE VALVE	
4+034.6	1.500	F102	1293.469		
4+050.4	-0.398	H28	1292.926	HYDRANT #28 VALVE AND TEE	
4+160	-0.394	H27	1288.977	HYDRANT #27 VALVE AND TEE	
4+328.9	1.500	V102	1283.063	200mm GATE VALVE	
4+331.8	-10.116	H26	1283.024	HYDRANT #26 VALVE AND TEE	

- NOTES:
1. ALL HOUSES, BATHROOMS AND KITCHEN SHELTER WATER AND SANITARY SERVICES REQUIRE RECONNECTION UNLESS OTHERWISE DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. THIS SHALL INCLUDE A NEW CURB STOP.
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 5. EXACT LOCATION OF NEW CURB STOPS, HYDRANTS AND HYDRANT VALVES TO BE CONFIRMED IN THE FIELD TO AVOID GAS LINE.

amec foster wheeler

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Alberta
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L'Agence Parcs Canada
Western and Northern Region
Ouest et Nord du Canada



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
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Approved by/Approve par
B. ZACHER

Designed by/Concept par
B. JOHNSON

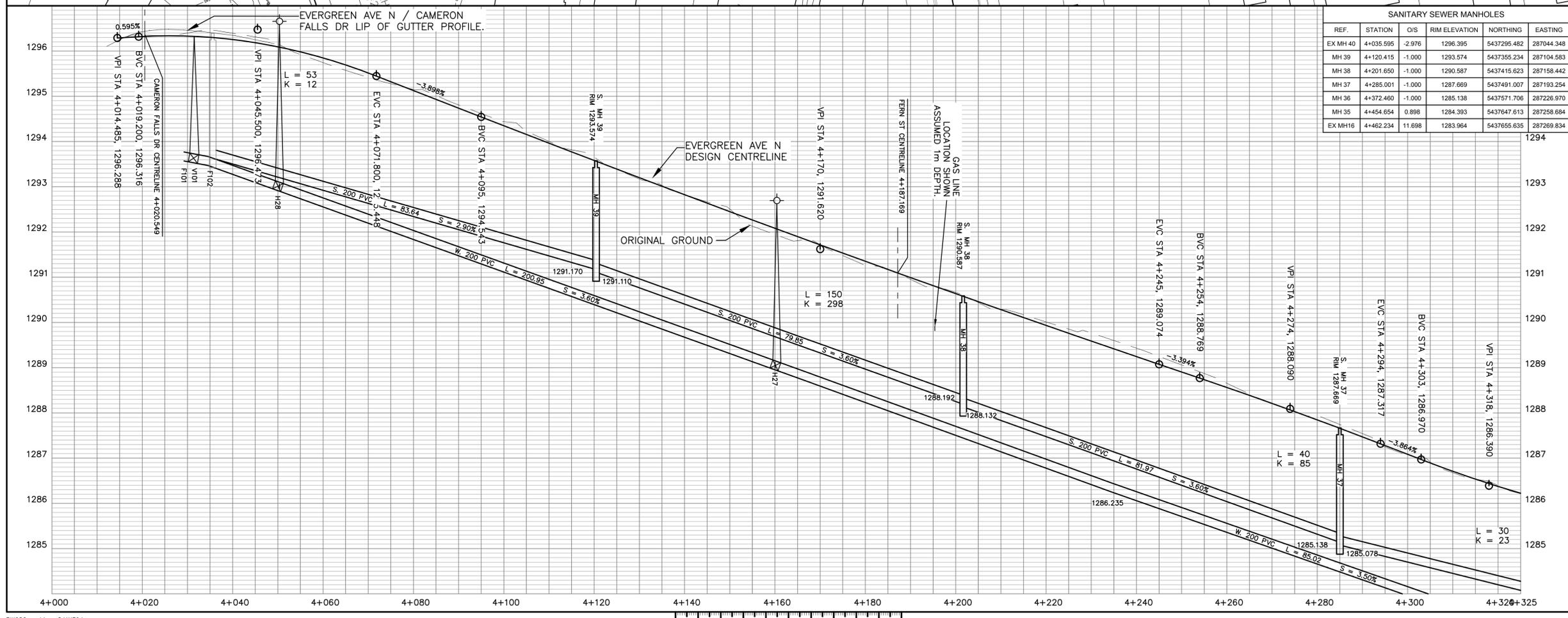
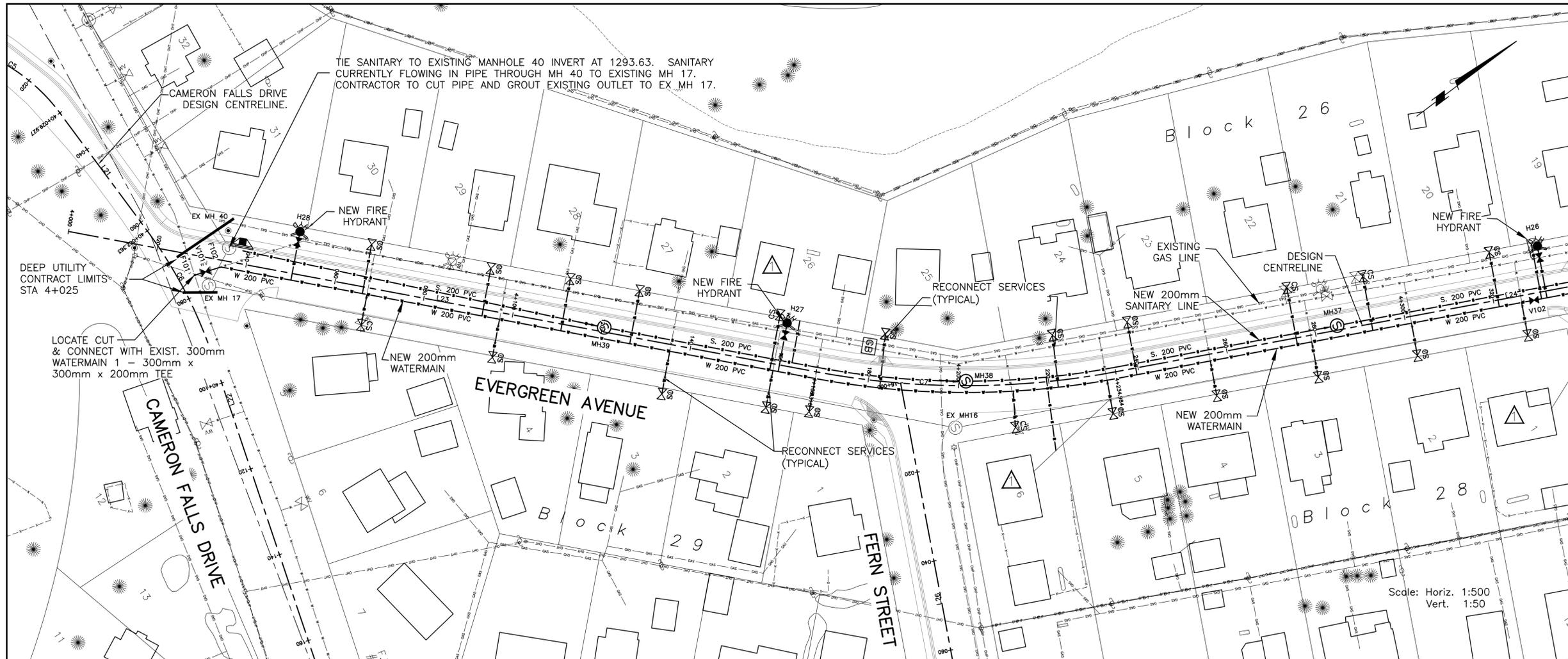
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Client/client
J. LAMBE

Drawing title/Titre du dessin
NEW UTILITIES EVERGREEN AVENUE NORTH PLAN PROFILE
Sta. 4+000 to Sta. 4+300

Project No./No. du projet R.075721.001	Sheet/Feuille C21 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

WATERMAIN DATA					
STATION	OFFSET	REF.	INVERT	DESCRIPTION	REMARKS
4+328.9	1.500	V102	1283.063	200mm GATE VALVE	
4+331.8	-10.116	H26	1283.024	HYDRANT #26 VALVE AND TEE	
4+455.6	3.776	F103	1281.388	45° BEND	
4+471.2	-0.719	F104	1281.488	90° BEND	
4+472.2	2.370	V103	1281.507	200mm GATE VALVE	
4+472.6	3.591	F105	1281.507	150 X 150 X 200 TEE	

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 5. EXACT LOCATION OF NEW CURB STOPS, HYDRANTS AND HYDRANT VALVES TO BE CONFIRMED IN THE FIELD TO AVOID GAS LINE.
 6. SEE SHEET C21 FOR SANITARY MANHOLE DATA ALONG EVERGREEN AVE N.



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PROFESSIONAL ENGINEER
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P. ENG.
DATE:

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STORM MANHOLES AND CATCH BASINS					
REF.	STATION	O/S	RIM ELEVATION	NORTHING	EASTING
CB1	4+355.808	4.850	1285.341	5437554.086	287225.948
CB2	4+408.518	3.875	1284.669	5437603.097	287245.369
EX ST MH1	4+456.170	6.232	1284.462	5437648.660	287264.160
CB3	4+463.230	4.823	1284.265	5437656.521	287262.919
EX ST MH2	4+495.546	-3.013	1283.453	5437688.709	287250.970

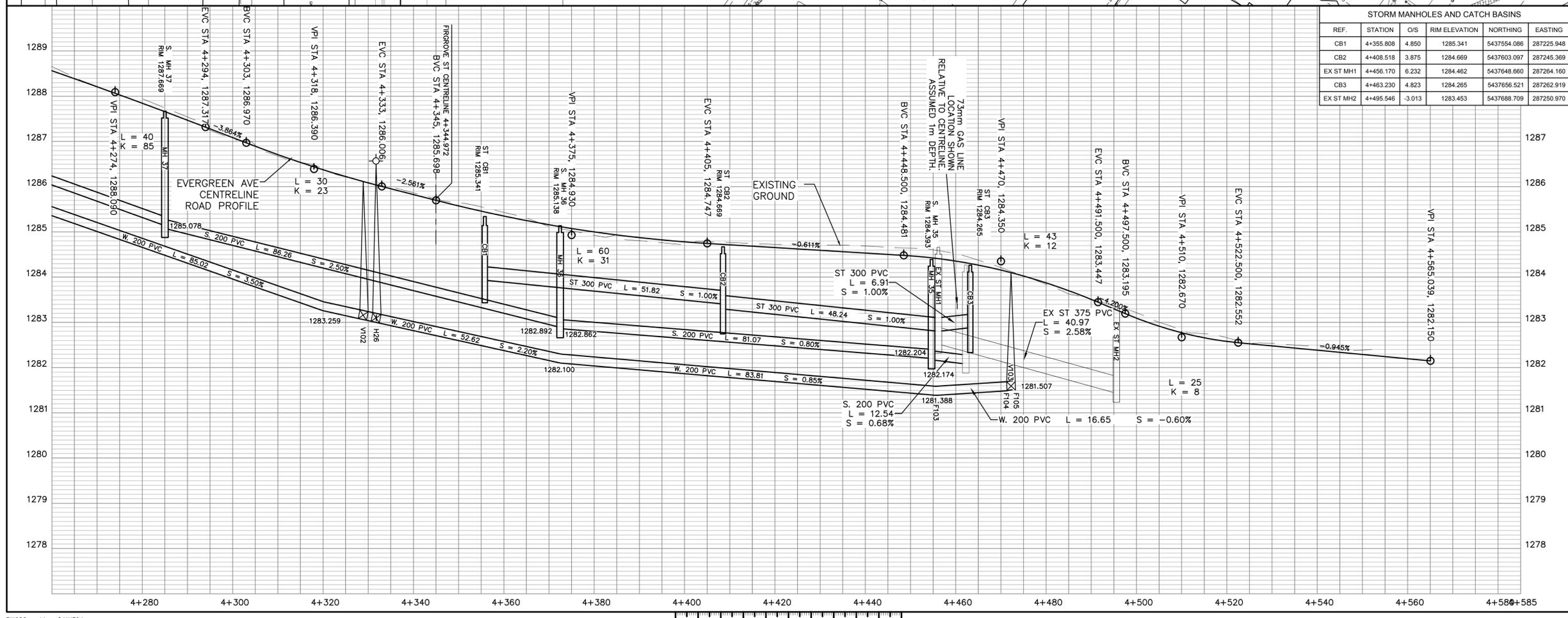
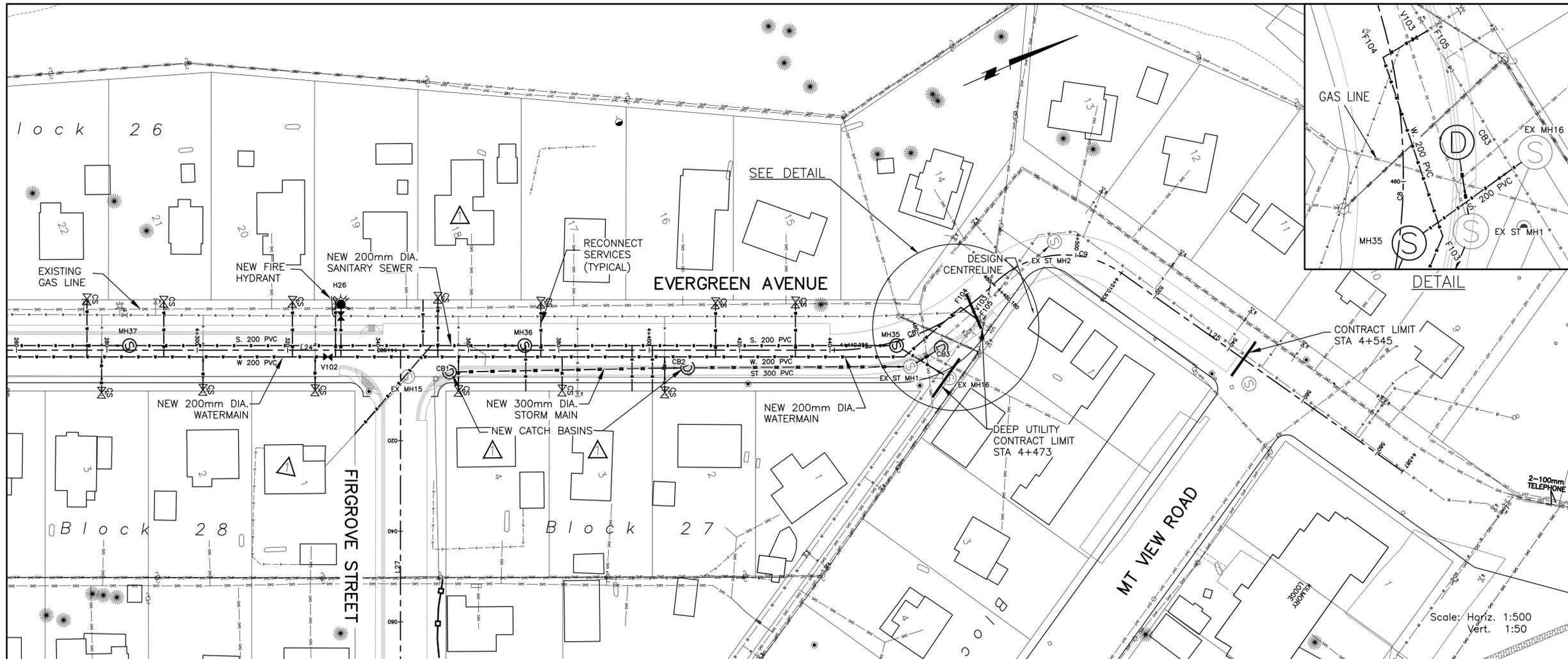
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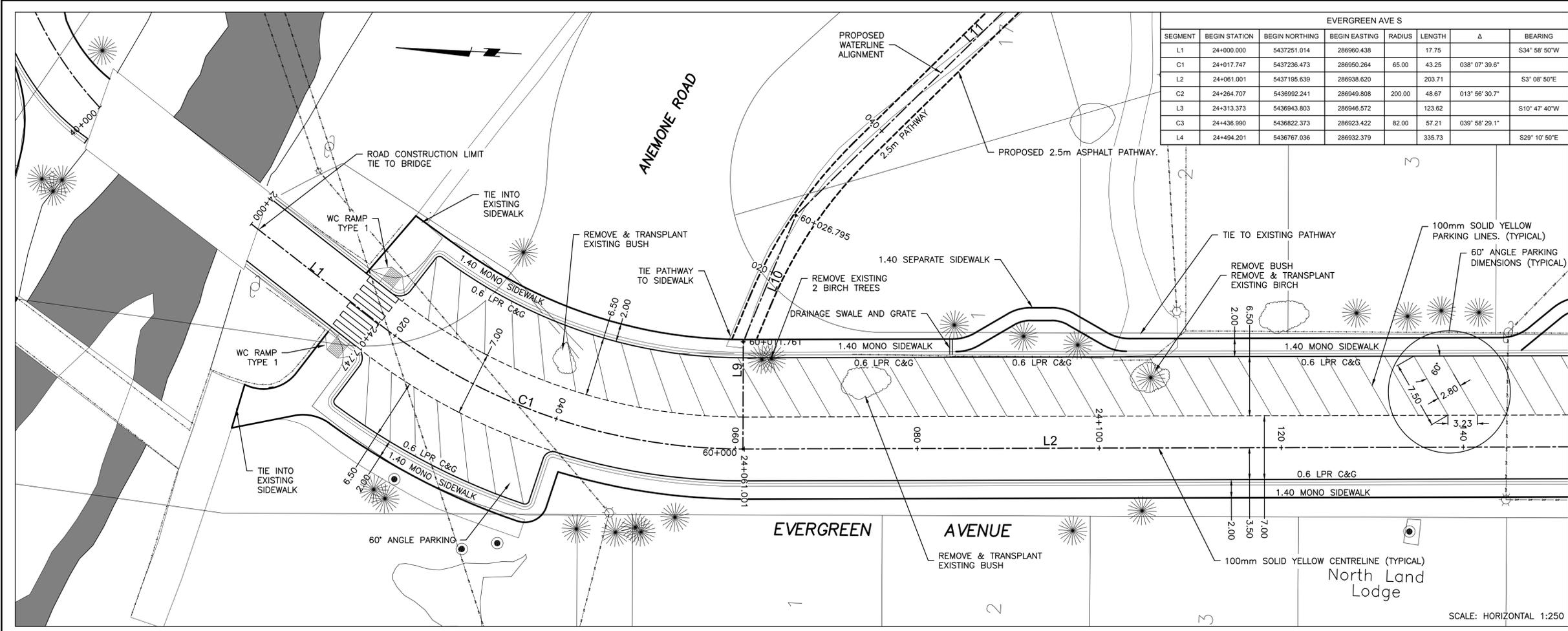
Client/client
Parks Canada Agency / L'Agence Parcs Canada
Western and Northern Region / Ouest et Nord du Canada
Canada
Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

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M. BURKE
PWSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client
Drawing title/Titre du dessin
NEW UTILITIES EVERGREEN AVENUE NORTH PLAN PROFILE
Sta. 4+300 to Sta. 4+600

Project No./No. du projet R.075721.001	Sheet/Feuille C22 OF 41	Revision no./La Révision no. 3
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SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L1	24+000.000	5437251.014	286960.438		17.75		S34° 58' 50"W
C1	24+017.747	5437236.473	286950.264	65.00	43.25	038° 07' 39.6"	
L2	24+061.001	5437195.639	286938.620		203.71		S3° 08' 50"E
C2	24+264.707	5436992.241	286949.808	200.00	48.67	013° 56' 30.7"	
L3	24+313.373	5436943.803	286946.572		123.62		S10° 47' 40"W
C3	24+436.990	5436822.373	286923.422	82.00	57.21	039° 58' 29.1"	
L4	24+494.201	5436767.036	286932.379		335.73		S29° 10' 50"E

Public Works and Government Services
 Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
 Western Region
 SERVICES IMMOBILIERS
 Région de l'ouest

PRELIMINARY
 NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
 1286.96 PROPOSED SURFACE ELEVATION

- NOTES:
- REFER TO DRAWINGS C14 - C22 FOR ROADWAY AND EXISTING GROUND PROFILES.
 - FOLLOWING DEEP UTILITY WORK, ALL ROADS TO BE RECONSTRUCTED TO TYPICAL ROADWAY STRUCTURE SHOWN ON DRAWING C41 FOR ROADWAY CROSS SECTIONS.
 - REFER TO TYPICAL SECTIONS ON DRAWING C41 FOR ROADWAY CROSS SECTIONS.
 - ALL CONCRETE AND ASPHALT TO BE IN ACCORDANCE WITH SPECIFICATIONS, INCLUDING STANDARD DRAWING DETAILS.
 - SURFACE ELEVATIONS ON ROADWAY ARE PROVIDED AT 20m STATIONING AND ADDITIONAL CORRIDOR MODEL STATIONS.

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

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
 MUNICIPAL INFRASTRUCTURE
 UPGRADES
 PHASE A AND B**
 WATERTON NATIONAL PARK
 ALBERTA

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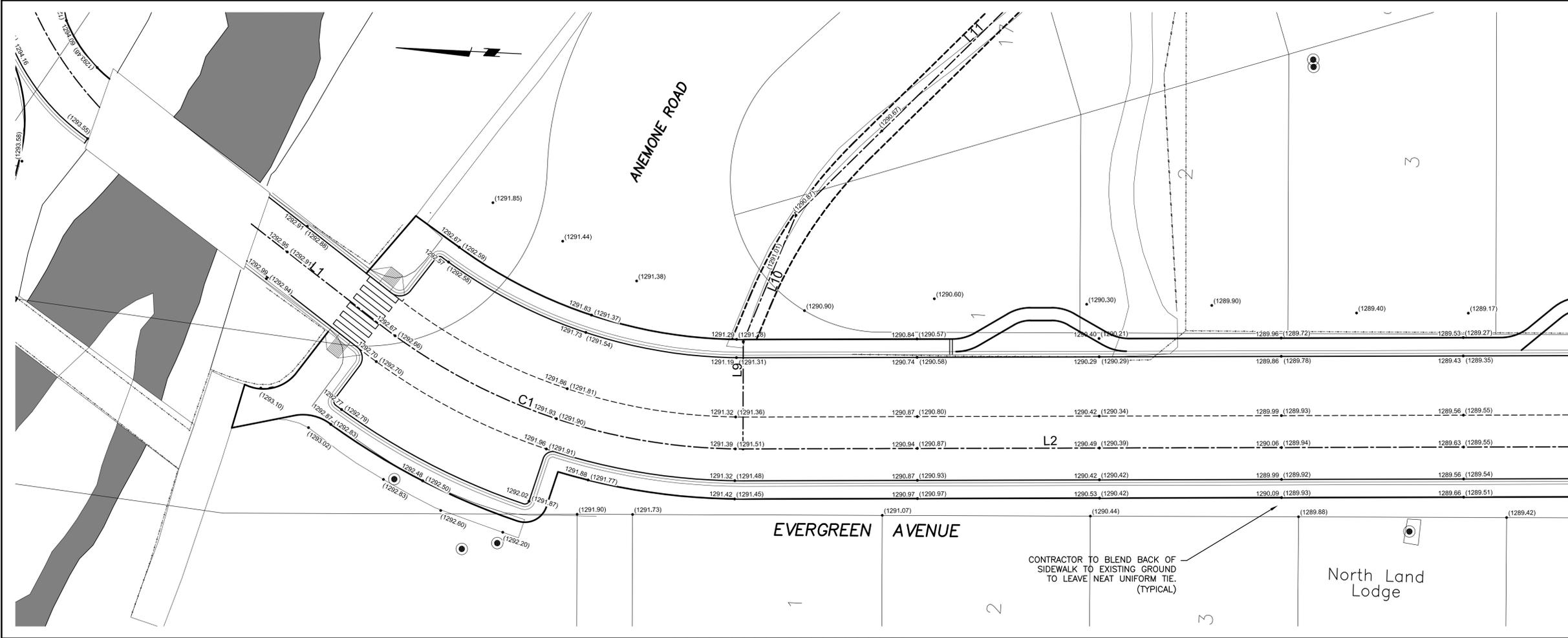
Client/client
 J. LAMBE

Drawing title/Titre du dessin
**SURFACE IMPROVEMENTS
 EVERGREEN AVENUE
 SOUTH
 PLAN**
 Sta. 24+000 to Sta. 24+140

Project No./No. du projet
R.075721.001

Sheet/Feuille
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 OF 41

Revision no./
 La Revision no.
3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

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 - REFER TO DRAWING C23 FOR ROADWAY ALIGNMENT ALONG EVERGREEN AVENUE S.



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Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

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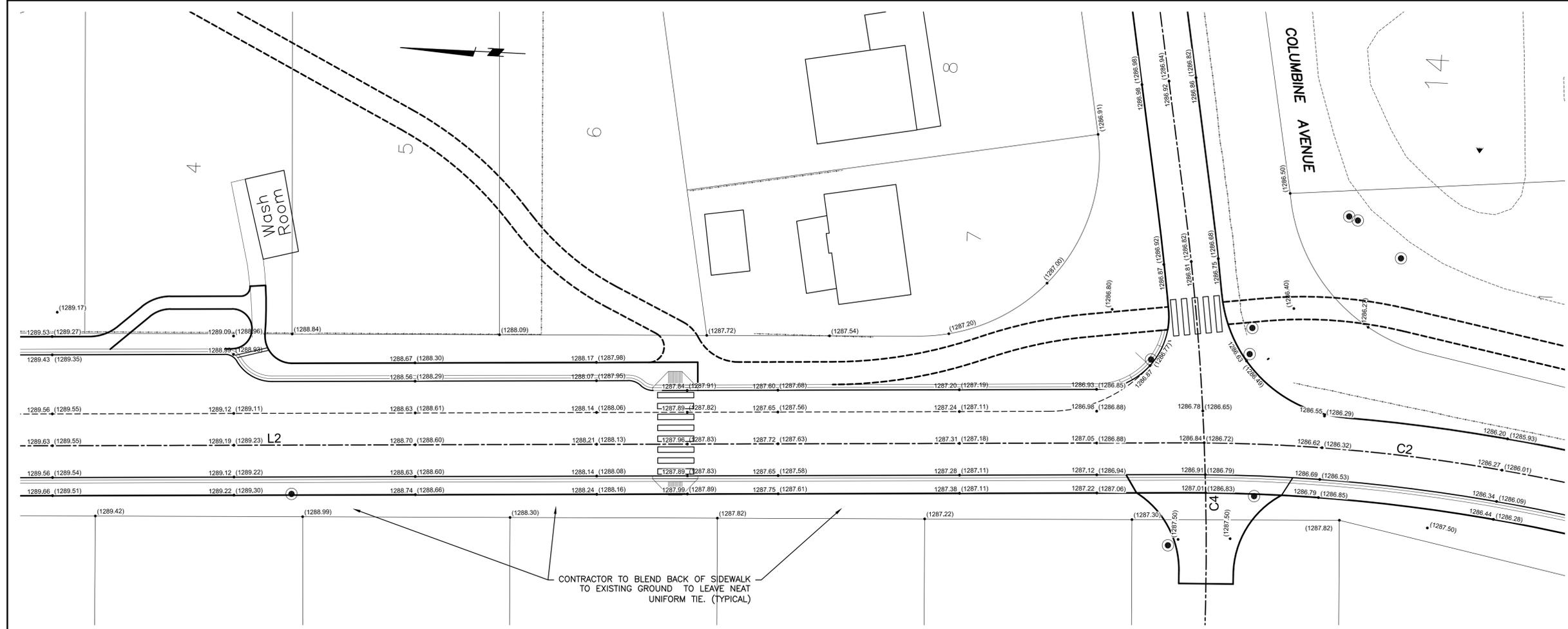
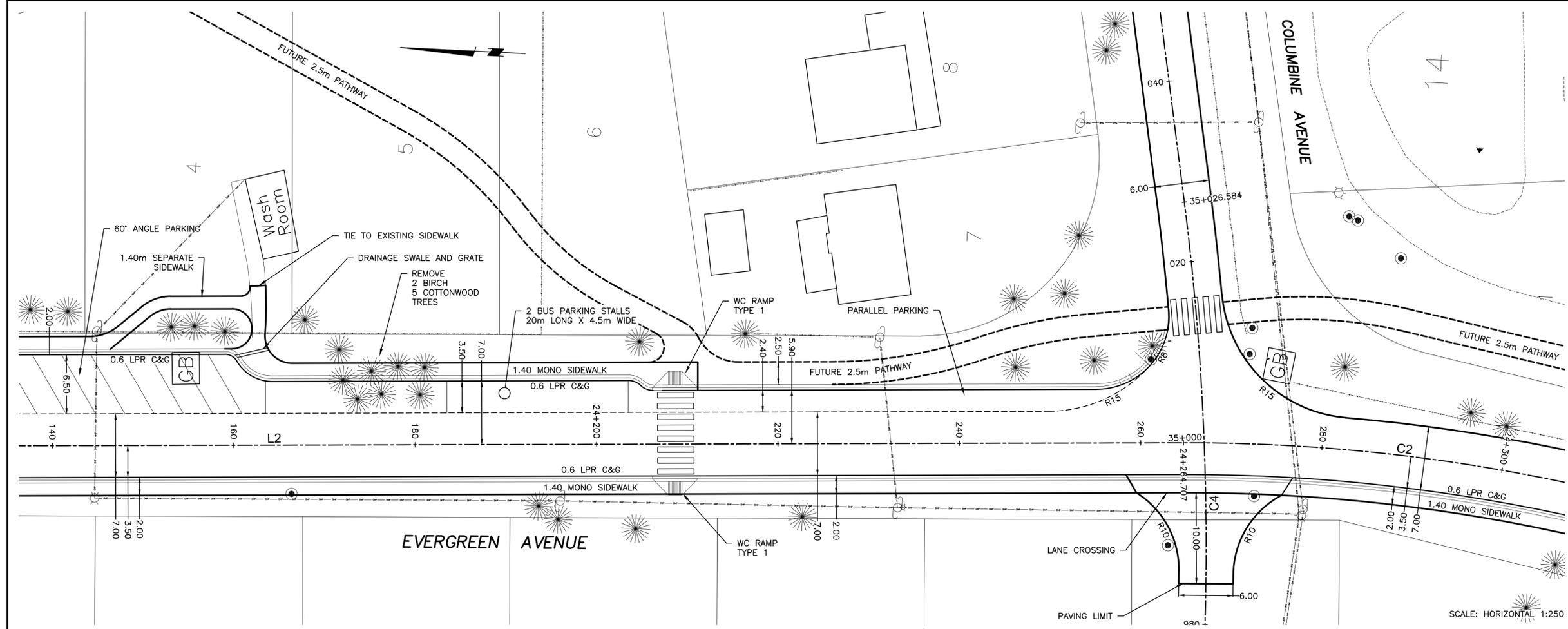
Drawing title/Titre du dessin

SURFACE IMPROVEMENTS EVERGREEN AVENUE SOUTH PLAN
Sta. 24+140 to Sta. 24+300

Project No./No. du projet
R.075721.001

Sheet/Feuille
C24
OF 41

Revision no./La Révision no.
3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

- NOTES:
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 - REFER TO DRAWING C23 FOR ROADWAY ALIGNMENT ALONG EVERGREEN AVENUE S.



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Western and Northern Region	Ouest et Nord du Canada



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WATERTON NATIONAL PARK ALBERTA

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Drawn by/Dessine par
B. JOHNSON

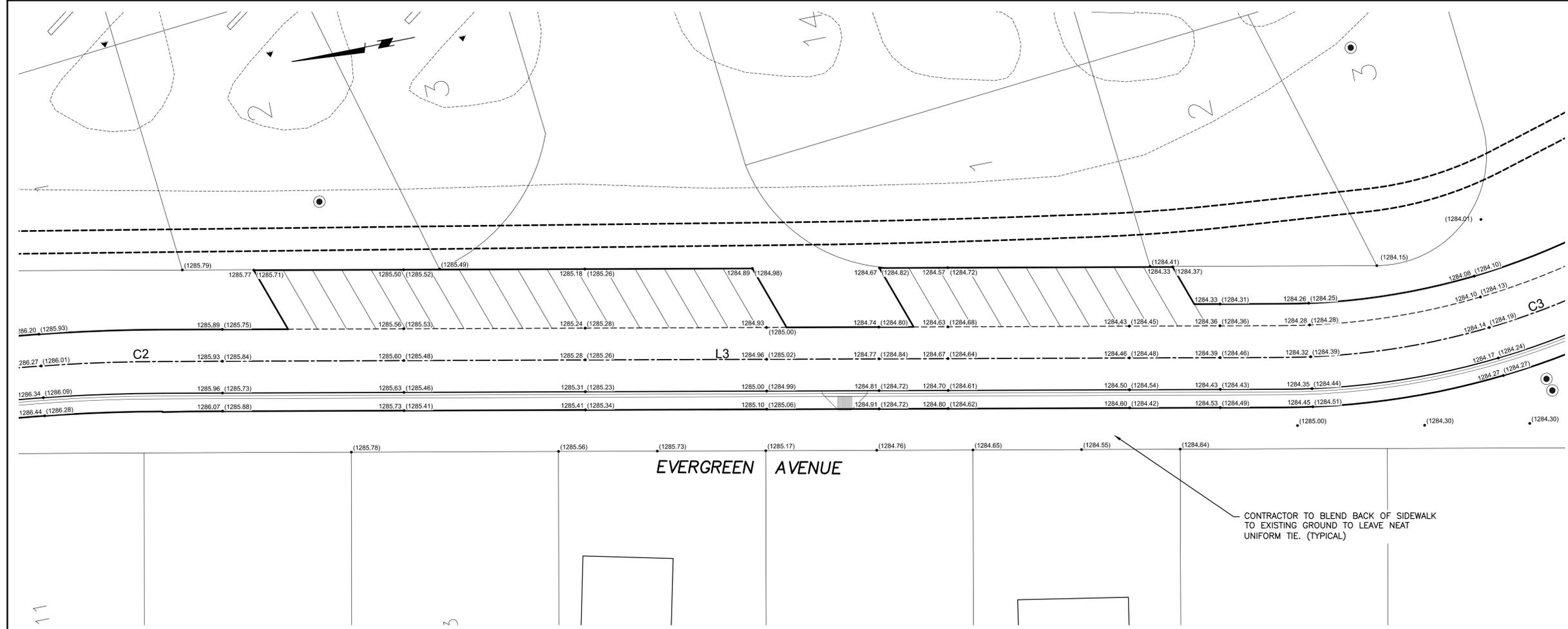
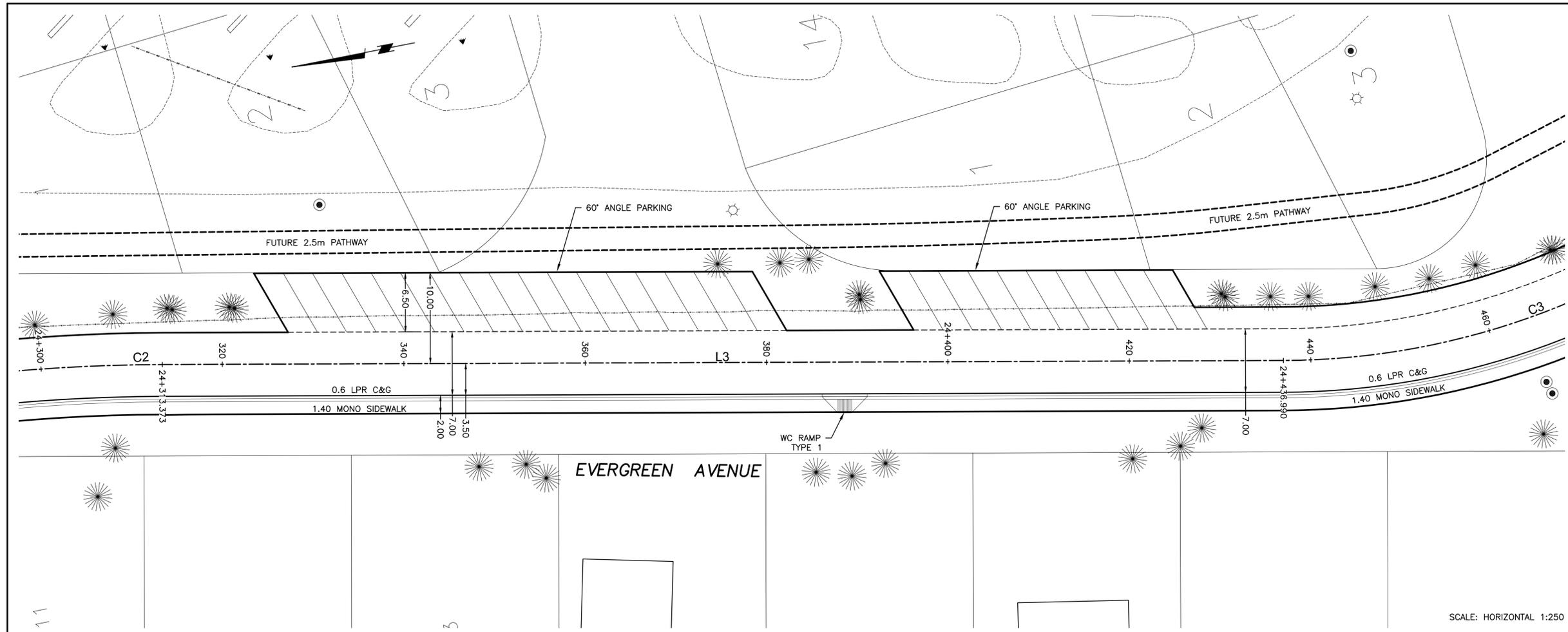
PWGSC Project Manager/Administrateur de Projets TPSC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSC
J. LAMBE

Client/client

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE SOUTH PLAN
Sta. 24+300 to Sta. 24+460

Project No./No. du projet R.075721.001	Sheet/Feuille C25 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
 1286.96 PROPOSED SURFACE ELEVATION

- NOTES:
- REFER TO DRAWINGS C14 - C22 FOR ROADWAY AND EXISTING GROUND PROFILES.
 - FOLLOWING DEEP UTILITY WORK, ALL ROADS TO BE RECONSTRUCTED TO TYPICAL ROADWAY STRUCTURE SHOWN ON DRAWING C41.
 - REFER TO TYPICAL SECTIONS ON DRAWING C41 FOR ROADWAY CROSS SECTIONS.
 - ALL CONCRETE AND ASPHALT TO BE IN ACCORDANCE WITH SPECIFICATIONS, INCLUDING STANDARD DRAWING DETAILS.
 - SURFACE ELEVATIONS ON ROADWAY ARE PROVIDED AT 20m STATIONING AND ADDITIONAL CORRIDOR MODEL STATIONS.
 - REFER TO DRAWING C23 FOR ROADWAY ALIGNMENT ALONG EVERGREEN AVENUE S.



Consultant's Name / Nom de l'expert-conseil
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 Fax: (403) 327-4938

Eng. Stamp / Sceau de l'ingénieur
 PROFESSIONAL ENGINEER / INGÉNIEUR
 P. ENG DATE:

SCALE: HORIZONTAL 1:250

DO NOT SCALE DRAWINGS

Revision/ Révision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	08/14/15
2	100% DESIGN COMPLETION	07/13/15
1	75% DESIGN COMPLETION	07/01/15
0	50% DESIGN COMPLETION	05/17/15

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par
 B. JOHNSON

Designed by/Concept par
 A. FORSYTH

Drawn by/Dessiné par
 M. BURKE

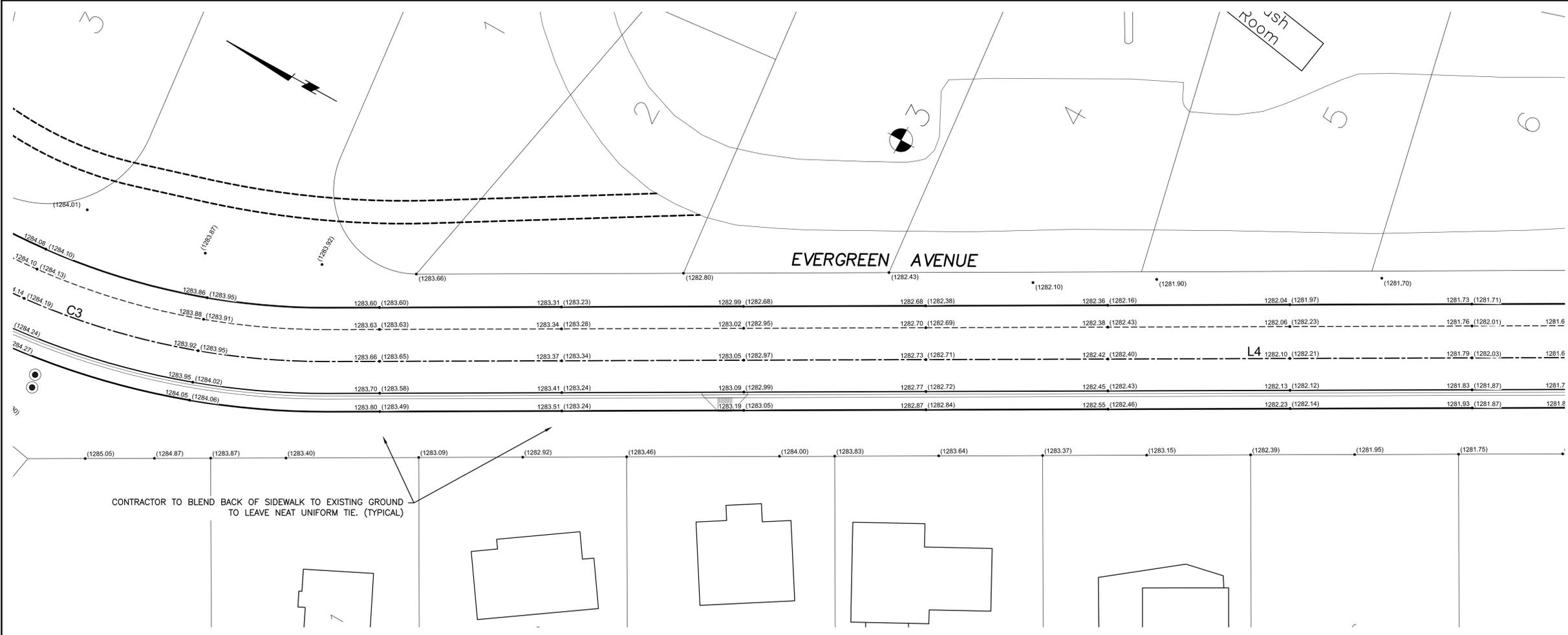
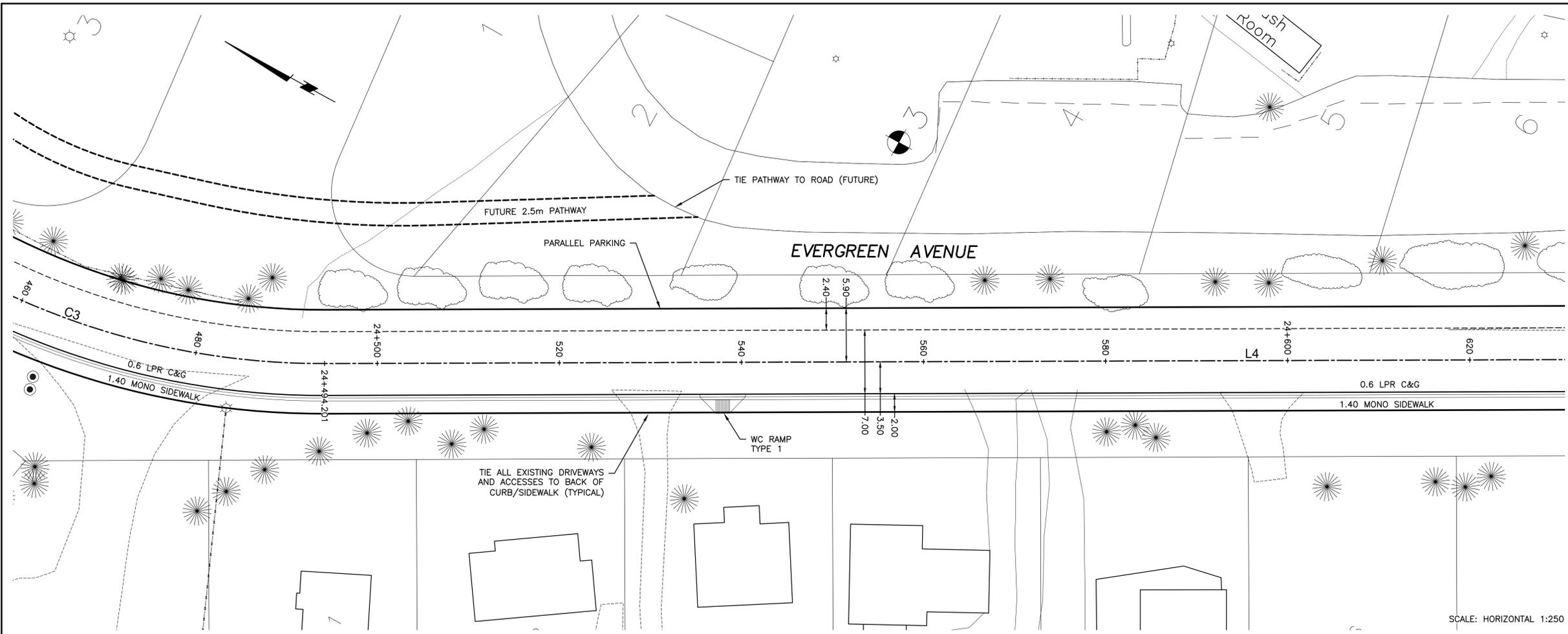
PWGC Project Manager/Administrateur de Projets TPSGC
 M. BURKE

PWGC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC
 J. LAMBE

Client/client
 J. LAMBE

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE SOUTH PLAN
 Sta. 24+460 to Sta. 24+620

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.075721.001	C26 OF 41	3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

- NOTES:
1. REFER TO DRAWINGS C14 - C22 FOR ROADWAY AND EXISTING GROUND PROFILES.
 2. FOLLOWING DEEP UTILITY WORK, ALL ROADS TO BE RECONSTRUCTED TO TYPICAL ROADWAY STRUCTURE SHOWN ON DRAWING C41.
 3. REFER TO TYPICAL SECTIONS ON DRAWING C41 FOR ROADWAY CROSS SECTIONS.
 4. ALL CONCRETE AND ASPHALT TO BE IN ACCORDANCE WITH SPECIFICATIONS, INCLUDING STANDARD DRAWING DETAILS.
 5. SURFACE ELEVATIONS ON ROADWAY ARE PROVIDED AT 20m STATIONING AND ADDITIONAL CORRIDOR MODEL STATIONS.
 6. REFER TO DRAWING C23 FOR ROADWAY ALIGNMENT ALONG EVERGREEN AVENUE S.



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Sceau de l'ingénieur
PROFESSIONAL ENGINEER
ALBERTA
P. ENG
DATE:

SCALE: HORIZONTAL 1:250

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5		
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3	ISSUED FOR TENDER	08/14/15
2	100% DESIGN COMPLETION	07/13/15
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0	50% DESIGN COMPLETION	05/17/15

Revision/ Révision Description/Description Date/Date

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par

Designed by/Concept par
A. FORSYTH

Drawn by/Dessiné par
B. JOHNSON

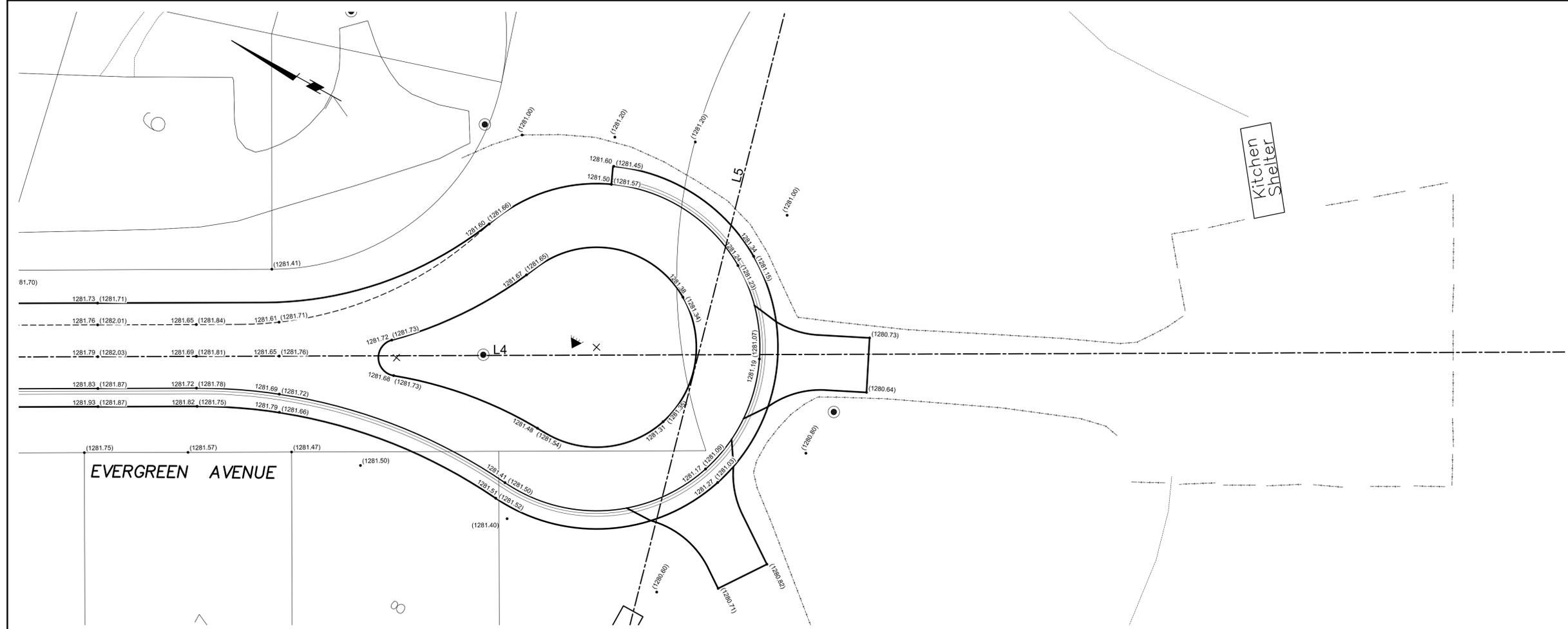
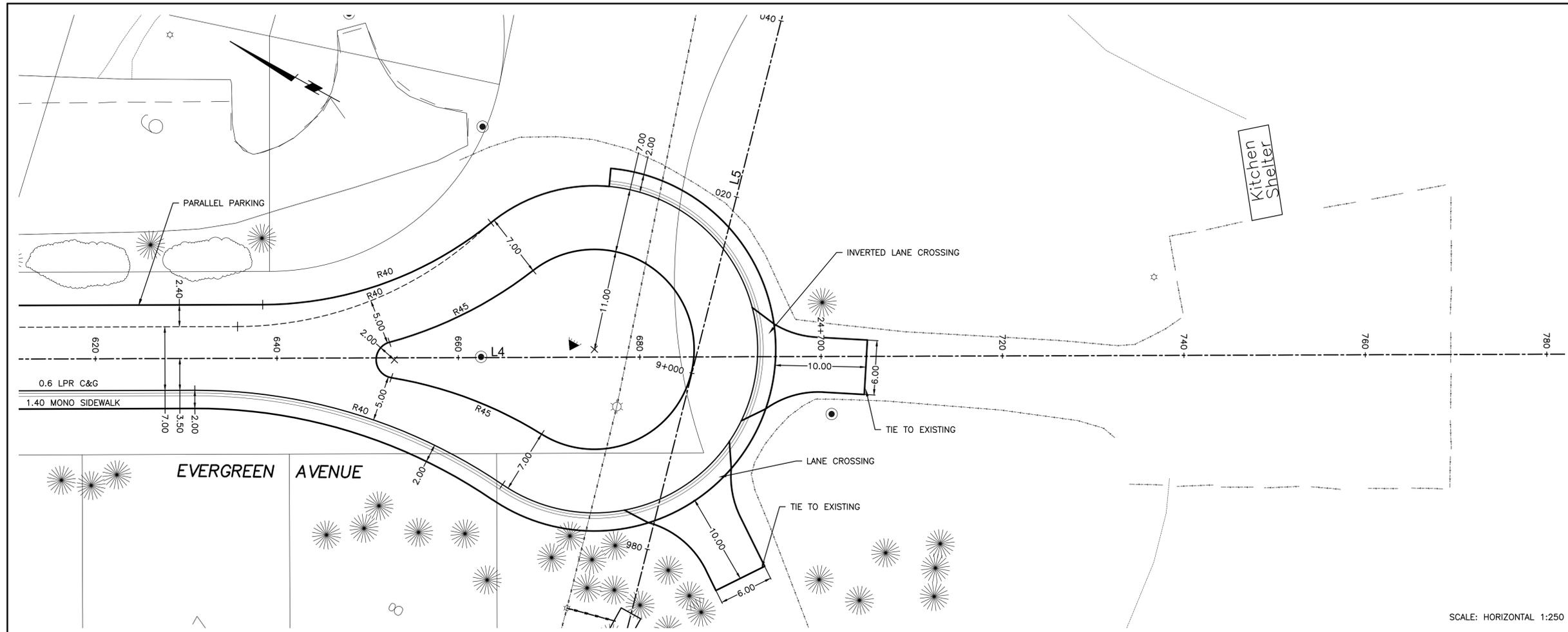
PWGSC Project Manager/Administrateur de Projets TFSGC
M. BURKE

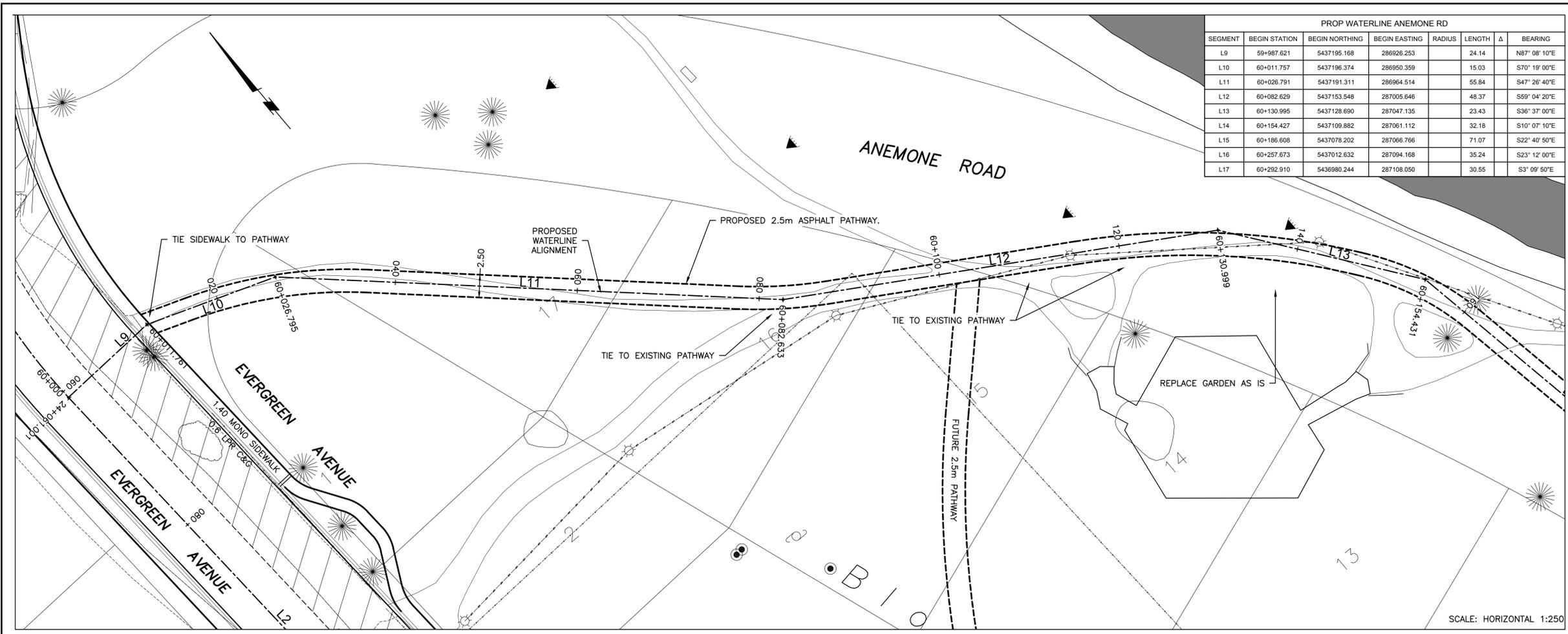
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TFSGC
J. LAMBE

Client/client
J. LAMBE

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE SOUTH PLAN
Sta. 24+620 to Sta. 24+780

Project No./No. du projet R.075721.001	Sheet/Feuille C27 OF 41	Revision no./La Révision no. 3
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PROP WATERLINE ANEMONE RD							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L9	59+987.621	5437195.168	286926.253		24.14		N87° 08' 10"E
L10	60+011.757	5437196.374	286950.359		15.03		S70° 19' 00"E
L11	60+026.791	5437191.311	286964.514		55.84		S47° 26' 40"E
L12	60+082.629	5437153.548	287005.646		48.37		S59° 04' 20"E
L13	60+130.995	5437128.690	287047.135		23.43		S36° 37' 00"E
L14	60+154.427	5437109.882	287061.112		32.18		S10° 07' 10"E
L15	60+186.608	5437078.202	287066.766		71.07		S22° 40' 50"E
L16	60+257.673	5437012.632	287094.168		35.24		S23° 12' 00"E
L17	60+292.910	5436980.244	287108.050		30.55		S3° 09' 50"E

Public Works and Government Services / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
 Western Region
SERVICES IMMOBILIERS
 Région de l'ouest

PRELIMINARY
 NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
 1286.96 PROPOSED SURFACE ELEVATION

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 - SURFACE ELEVATIONS ARE PROVIDED AT 20m STATIONING AND HORIZONTAL DEFLECTION POINTS.
 - PATHWAY PROFILE TO FOLLOW EXISTING GROUND.



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Eng. Stamp / Socu de l'ingénieur
PROFESSIONAL ENGINEER
ALBERTA
 P. ENG. DATE:

DO NOT SCALE DRAWINGS

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0	50% DESIGN COMPLETION	05/17/15

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON ALBERTA

Approved by/Approuvé par

Designed by/Concepté par
 A. FORSYTH

Drawn by/Dessiné par
 B. JOHNSON

PWGC Project Manager/Administrateur de Projets TPSCG
 M. BURKE

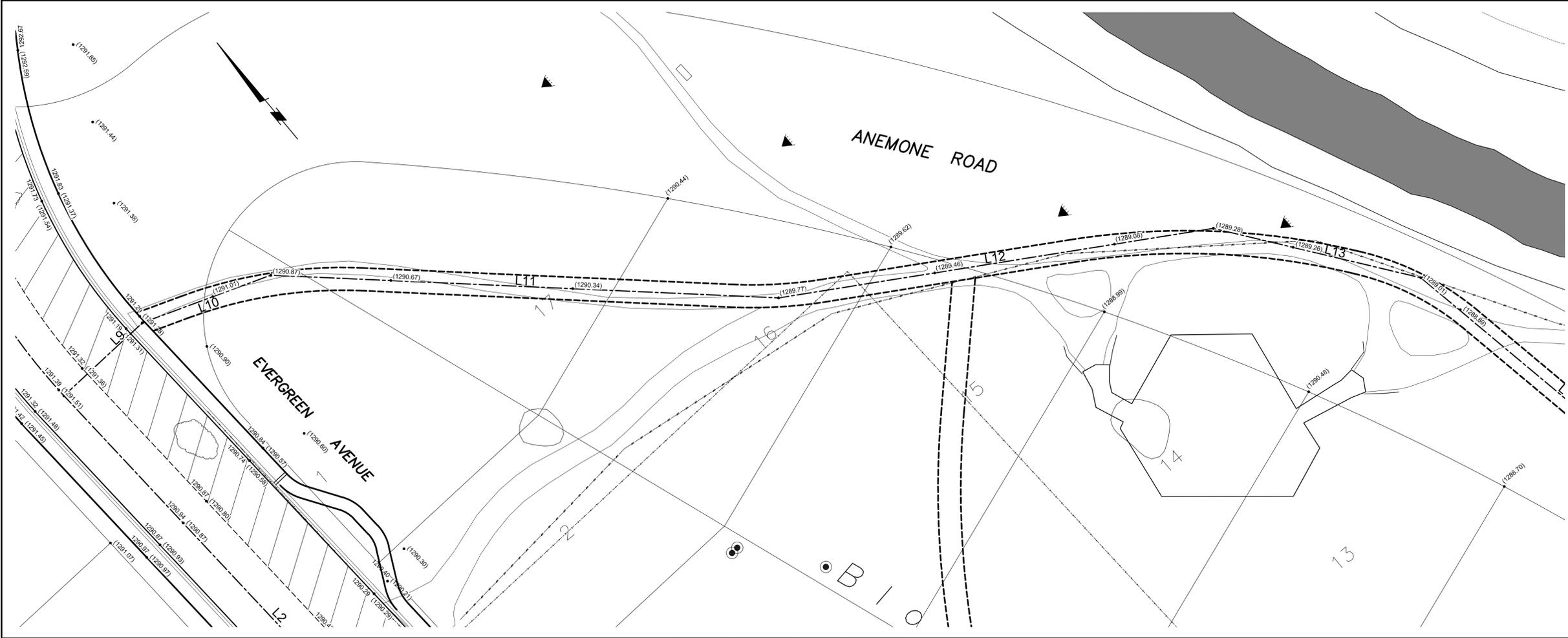
PWGC, Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'ingénierie, TPSCG
 J. LAMBE

Client/client
 J. LAMBE

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS ANEMONE ROAD

PLAN
 Sta. 60+000 to Sta. 60+160

Project No./No. du projet R.075721.001	Sheet/Feuille C28 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

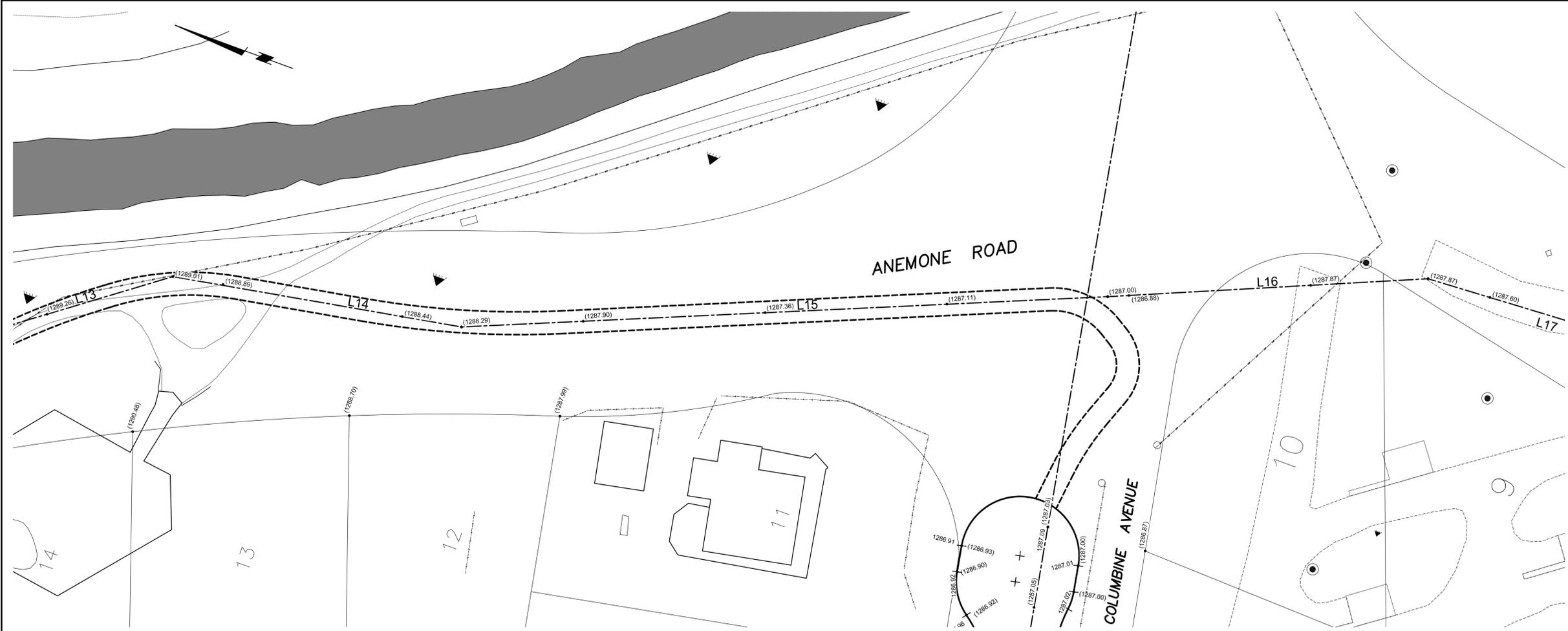
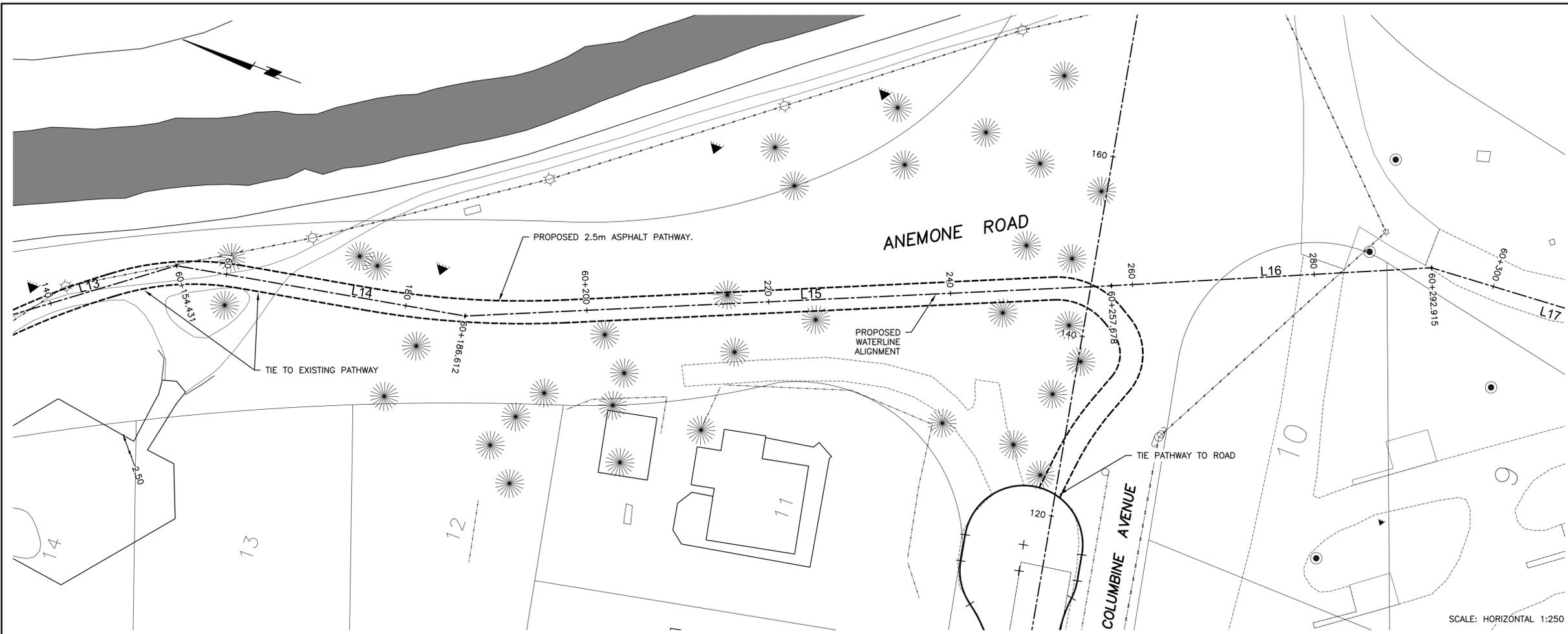
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 - SURFACE ELEVATIONS ARE PROVIDED AT 20m STATIONING AND HORIZONTAL DEFLECTION POINTS.
 - REFER TO DRAWING C28 FOR PATHWAY AND WATERLINE ALIGNMENT ALONG ANEMONE RD.



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PROFESSIONAL ENGINEER
ALBERTA
J. LAMBE
P. ENG
DATE:

SCALE: HORIZONTAL 1:250



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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par
Designed by/Concepté par
A. FORSYTH
Drawn by/Dessiné par
B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSCG
M. BURKE
PWGSC, Architectural and Engineering Resources Manager/Ressources Architecturales et de Directeur d'ingénierie, TPSCG
J. LAMBE

Client/client
Drawing title/Titre du dessin
SURFACE IMPROVEMENTS ANEMONE ROAD
PLAN
Sta. 60+160 to Sta. 60+300

Project No./No. du projet
R.075721.001
Sheet/Feuille
C29
OF 41
Revision no./La Révision no.
3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

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Consultant's Name / Nom de l'expert-conseil: Amec Foster Wheeler Environment & Infrastructure
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 Tel: (403) 329-1467, Fax: (403) 327-4938
 P. ENG DATE:

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0	50% DESIGN COMPLETION	05/17/15

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



Project title / Titre du projet: **WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B**
 WATERTON NATIONAL PARK ALBERTA

Approved by / Approuvé par: A. FORSYTH

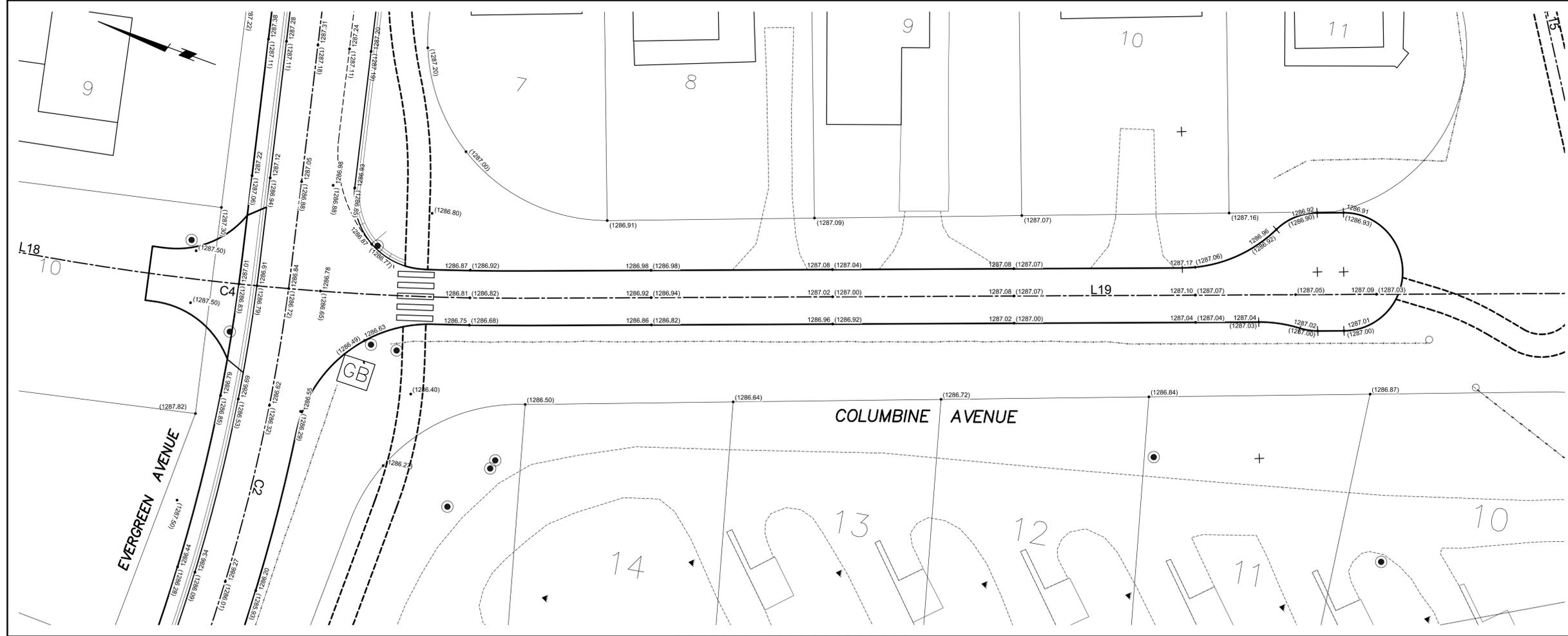
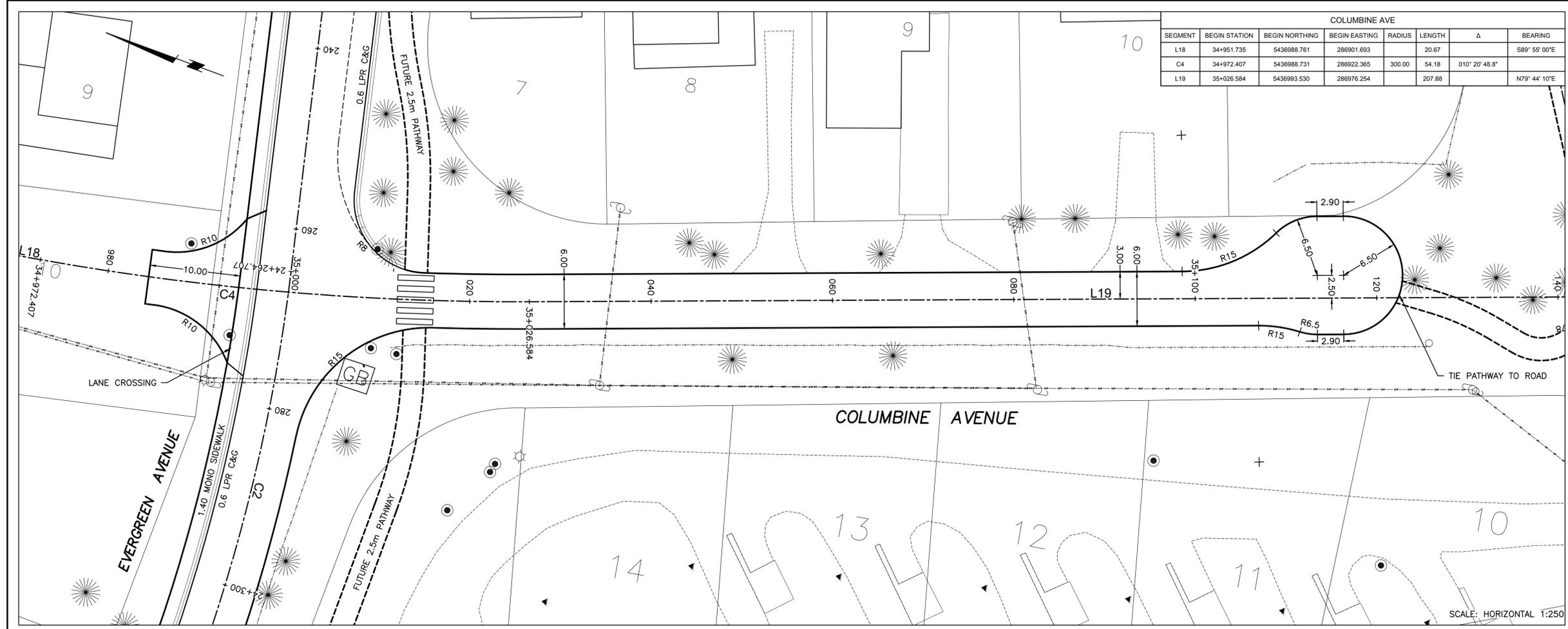
Designed by / Dessiné par: B. JOHNSON
 PWGSC Project Manager / Administrateur de Projets TFSGC: M. BURKE

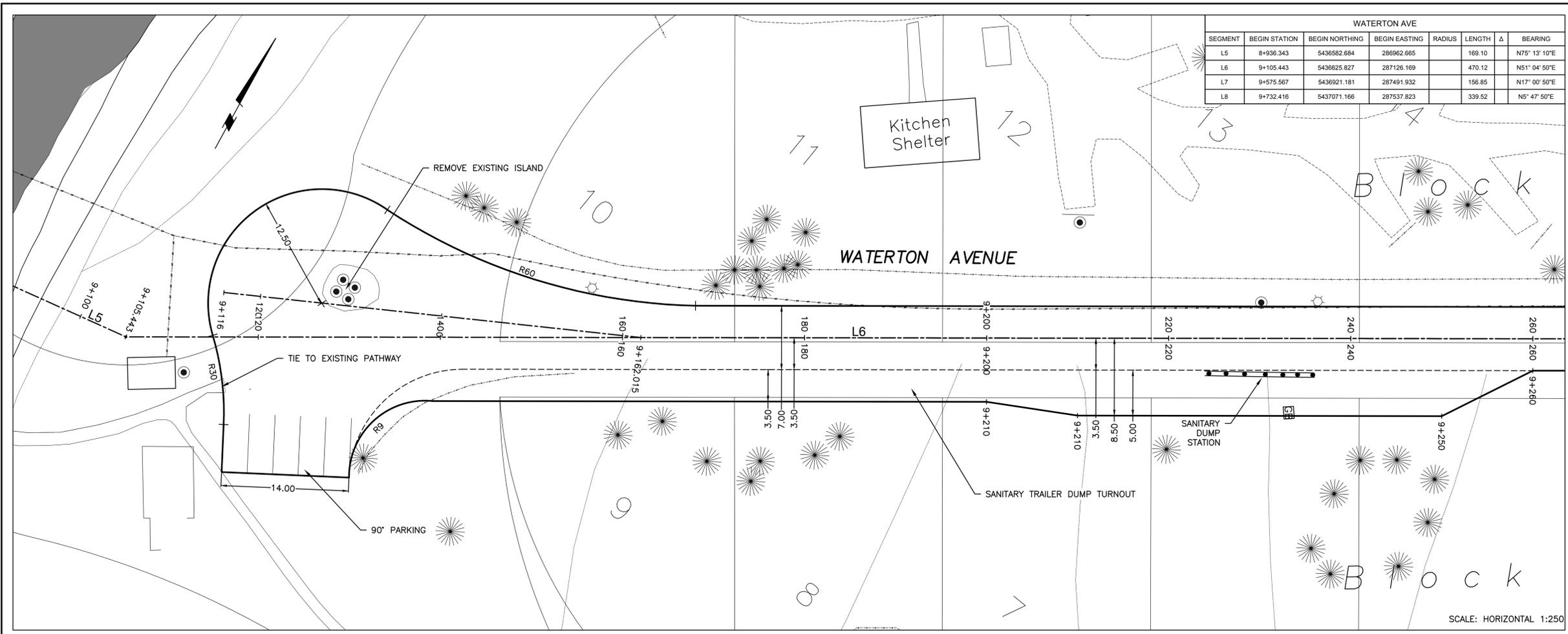
PWGSC, Architectural and Engineering Resources Manager / Ressources Architecturales et de Directeur d'ingénierie, TFSGC: J. LAMBE

Drawing title / Titre du dessin: **SURFACE IMPROVEMENTS COLUMBINE AVENUE**

PLAN
 Sta. 34+980 to Sta. 35+140

Project No. / No. du projet: R.075721.001	Sheet / Feuille: C30 OF 41	Revision no. / La Révision no.: 3
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WATERTON AVE							
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L5	8+936.343	5436582.684	286962.665		169.10		N75° 13' 10"E
L6	9+105.443	5436625.827	287126.169		470.12		N51° 04' 50"E
L7	9+575.567	5436921.181	287491.932		156.85		N17° 00' 50"E
L8	9+732.416	5437071.166	287537.823		339.52		N5° 47' 50"E

Public Works and Government Services
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

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amec foster wheeler

Consultant's Name
Nom de l'expert-conseil

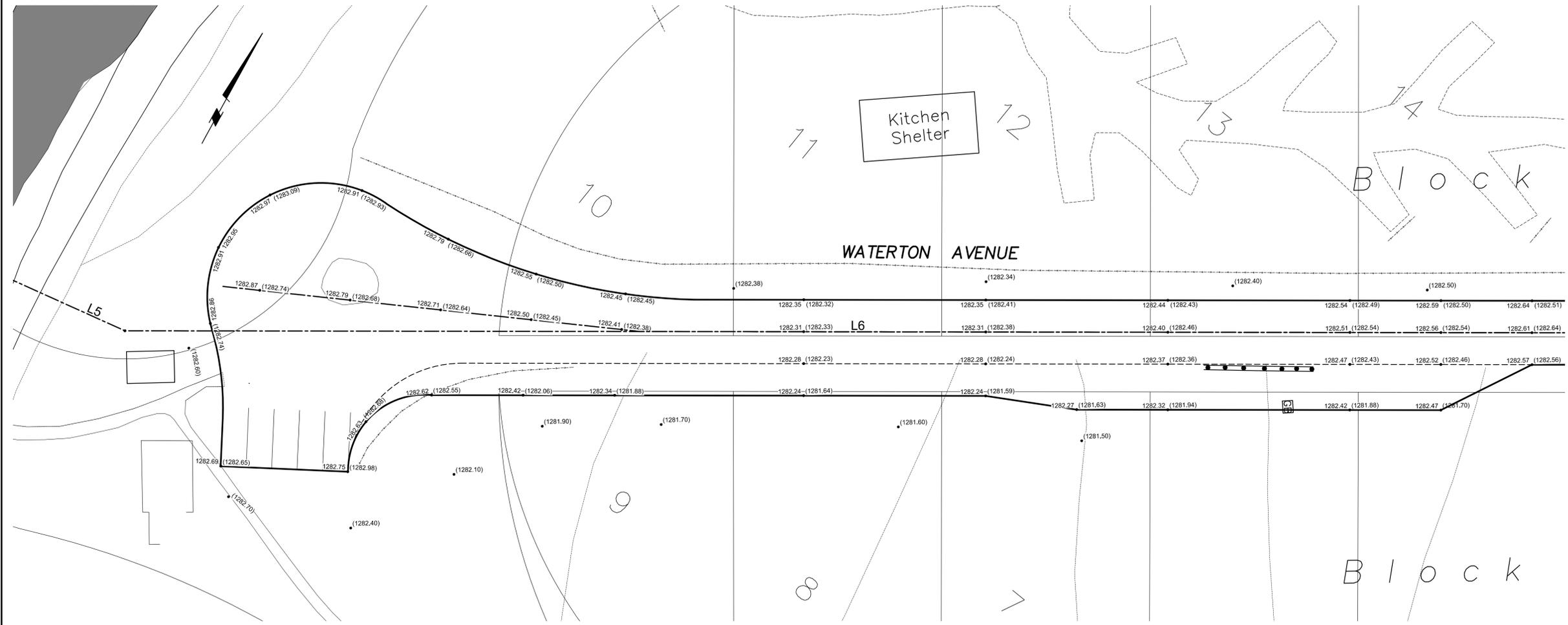
Amec Foster Wheeler
Environment & Infrastructure
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Lethbridge, Alberta CANADA T1J 4M1
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Fax: (403) 327-4938

Eng. Stamp
Sceau de l'ingénieur

PROFESSIONAL ENGINEER
ALBERTA
1983

P. ENG
DATE:

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0	50% DESIGN COMPLETION	05/17/15

Client/client

Parks Canada L'Agence Parcs
Agency Canada

Western and Northern Region Ouest et Nord
du Canada

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

Approved by/Approuvé par

Designed by/Concept par
A. FORSYTH

Drawn by/Dessiné par
B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TFSGC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'ingénierie, TFSGC

Client/client
J. LAMBE

Drawing title/Titre du dessin
**SURFACE IMPROVEMENTS
WATERTON AVENUE**

PLAN
Sta. 9+100 to Sta. 9+260

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.075721.001	C31 OF 41	3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par

Designed by/Concept par
A. FORSYTH

Drawn by/Dessiné par
B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TFSGC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'ingénierie, TFSGC
J. LAMBE

Client/client
J. LAMBE

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE NORTH PLAN
Sta. 4+000 to Sta. 4+100
Sta. 40+000 to Sta. 40+100

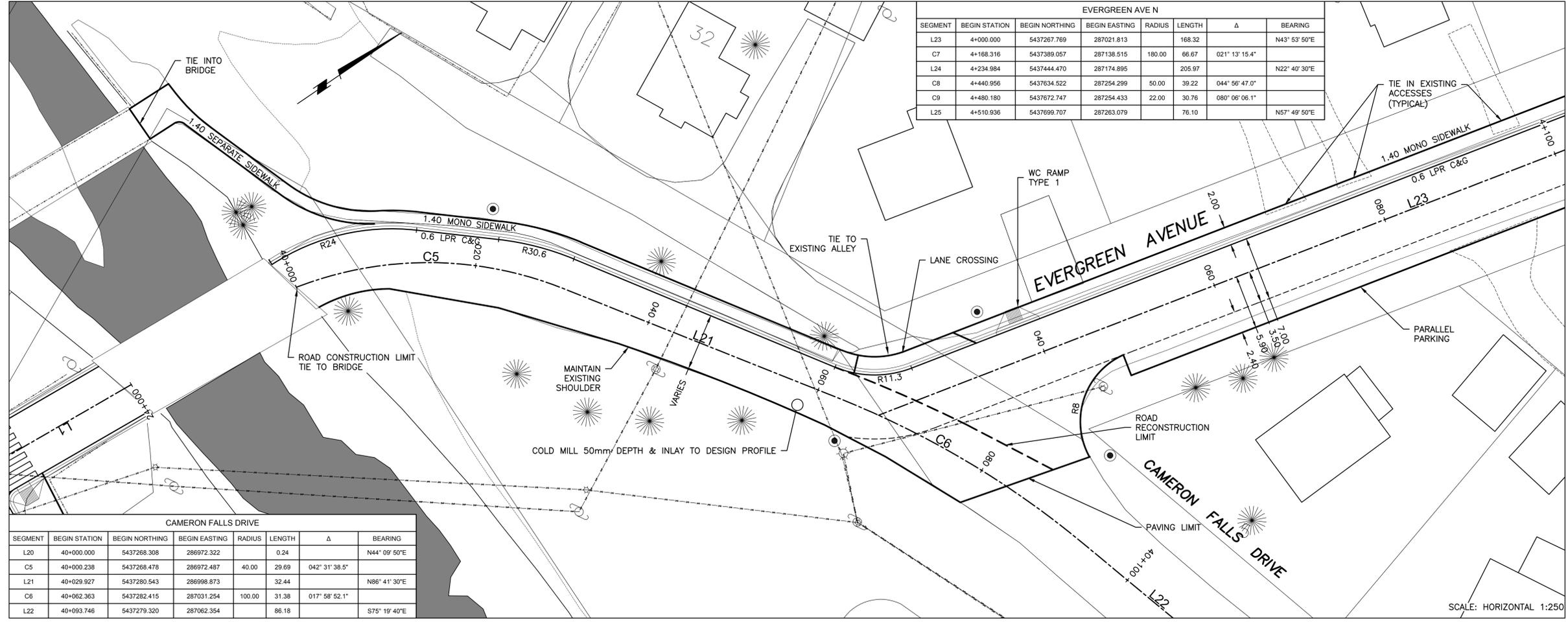
Project No./No. du projet
R.075721.001

Sheet/Feuille
C33
OF 41

Revision no./La Révision no.
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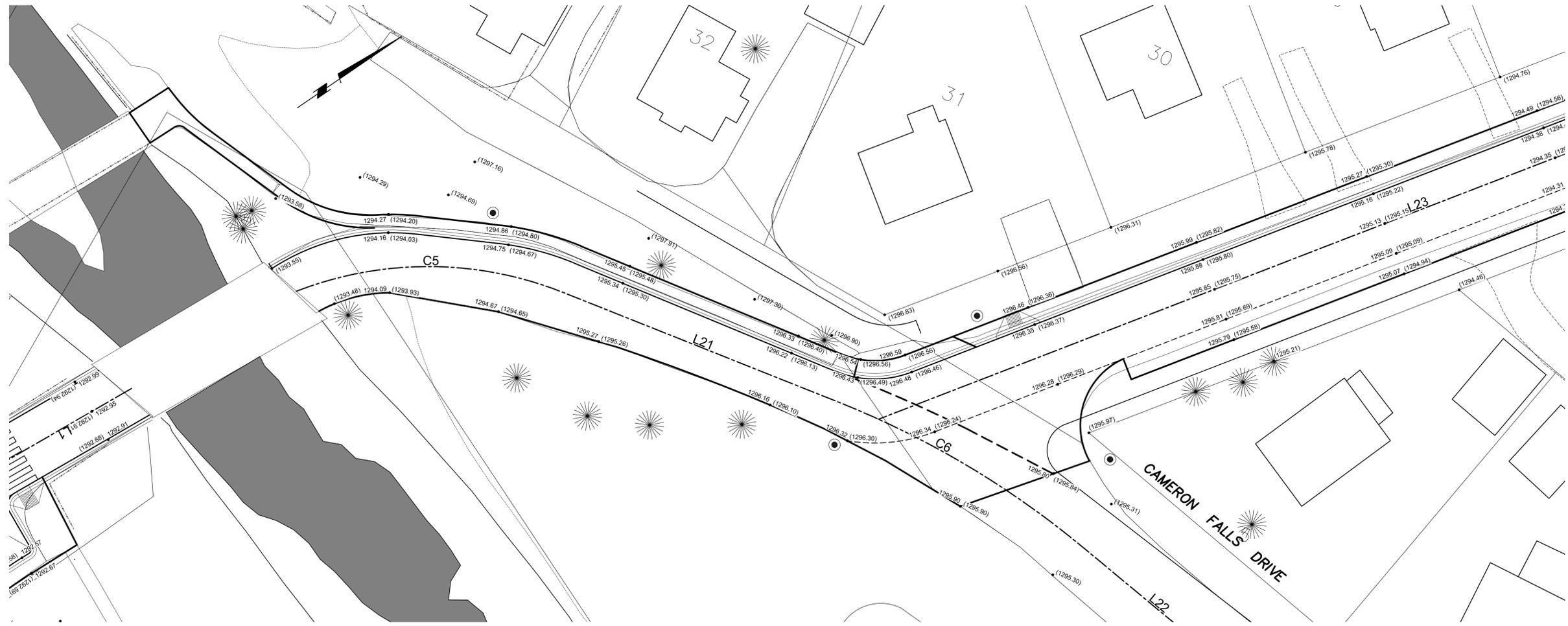
EVERGREEN AVE N

SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L23	4+000.000	5437267.769	287021.813		168.32		N43° 53' 50"E
C7	4+168.316	5437389.057	287138.515	180.00	66.67	021° 13' 15.4"	
L24	4+234.984	5437444.470	287174.895		205.97		N22° 40' 30"E
C8	4+440.956	5437634.522	287254.299	50.00	39.22	044° 56' 47.0"	
C9	4+480.180	5437672.747	287254.433	22.00	30.76	080° 06' 06.1"	
L25	4+510.936	5437699.707	287263.079		76.10		N57° 49' 50"E



CAMERON FALLS DRIVE

SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L20	40+000.000	5437268.308	286972.322		0.24		N44° 09' 50"E
C5	40+000.238	5437268.478	286972.487	40.00	29.69	042° 31' 38.5"	
L21	40+029.927	5437280.543	286998.873		32.44		N86° 41' 30"E
C6	40+062.363	5437282.415	287031.254	100.00	31.38	017° 58' 52.1"	
L22	40+093.746	5437279.320	287062.354		86.18		S75° 19' 40"E



PRELIMINARY
NOT FOR CONSTRUCTION

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1286.96 PROPOSED SURFACE ELEVATION

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 - REFER TO DRAWING C33 FOR ALIGNMENT INFORMATION ALONG EVERGREEN AVE N.



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Eng. Stamp
Sceau de l'ingénieur
AMEC FOSTER WHEELER
P. ENG
DATE:

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Western and Northern Region / Ouest et Nord du Canada



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concept par
A. FORSYTH
Drawn by/Dessiné par
B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TP5GC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'ingénierie, TP5GC
J. LAMBE

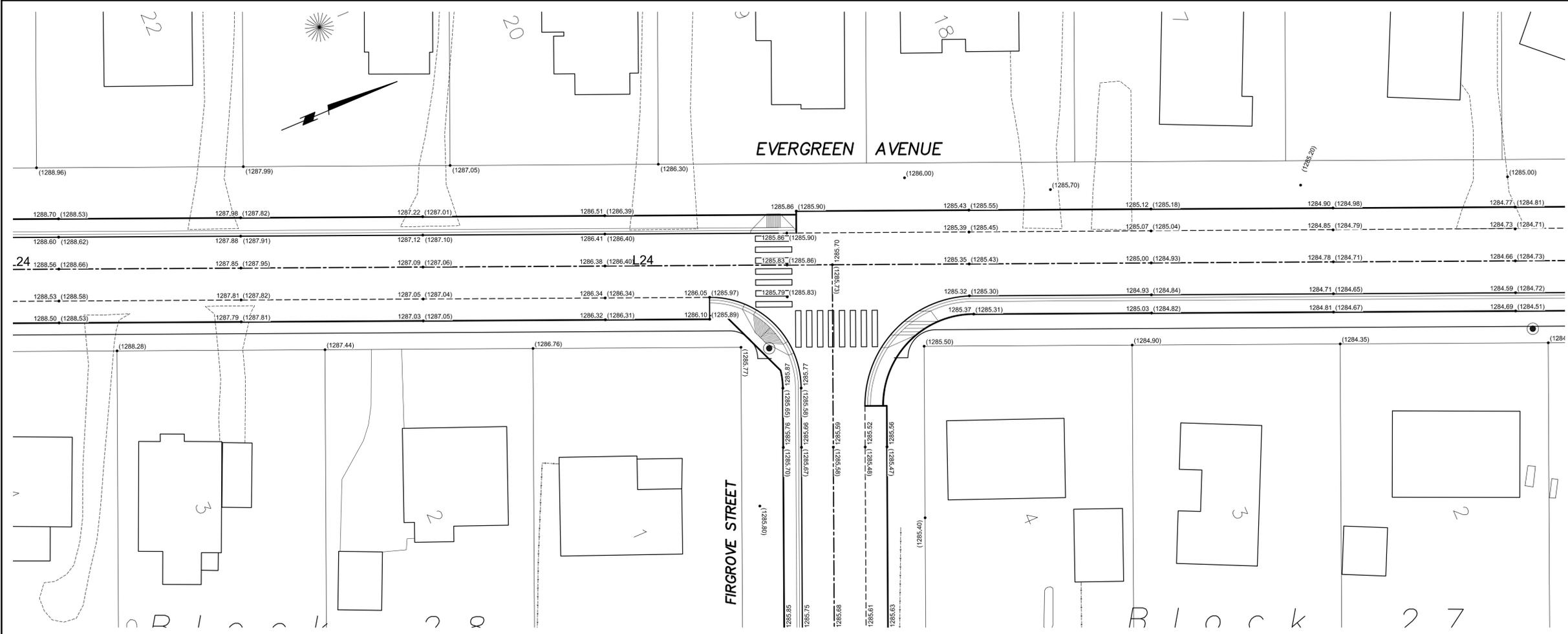
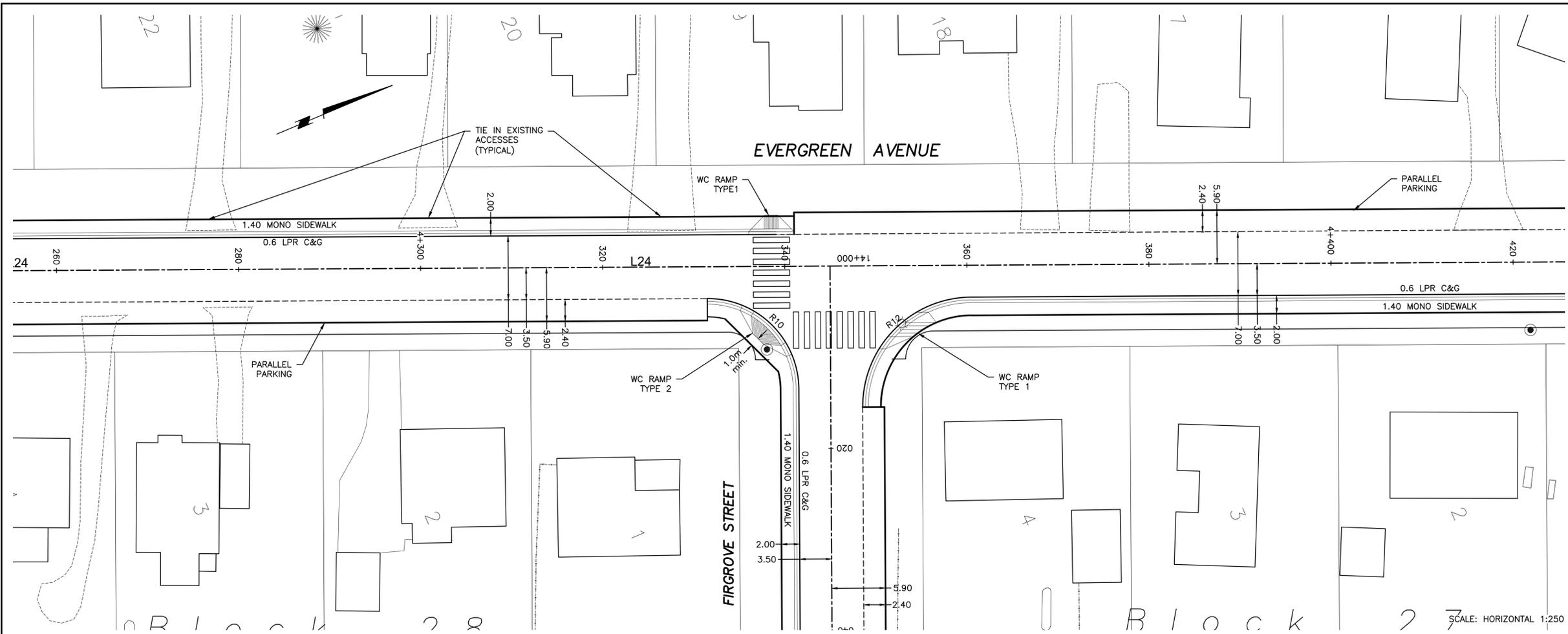
Client/Client

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE NORTH PLAN
Sta. 4+260 to Sta. 4+420

Project No./No. du projet
R.075721.001

Sheet/Feuille
C35
OF 41

Revision no./La Révision no.
3



PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

- NOTES:
- REFER TO DRAWINGS C14 - C22 FOR ROADWAY AND EXISTING GROUND PROFILES.
 - FOLLOWING DEEP UTILITY WORK, ALL ROADS TO BE RECONSTRUCTED TO TYPICAL ROADWAY STRUCTURE SHOWN ON DRAWING C41.
 - REFER TO TYPICAL SECTIONS ON DRAWING C41 FOR ROADWAY CROSS SECTIONS.
 - ALL CONCRETE AND ASPHALT TO BE IN ACCORDANCE WITH SPECIFICATIONS, INCLUDING STANDARD DRAWING DETAILS.
 - SURFACE ELEVATIONS ON ROADWAY ARE PROVIDED AT 20m STATIONING AND ADDITIONAL CORRIDOR MODEL STATIONS.
 - REFER TO DRAWING C33 FOR ALIGNMENT INFORMATION ALONG EVERGREEN AVE N.



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Eng. Stamp
Sceau de l'ingénieur
AMERICAN ENGINEERING ASSOCIATION
P. ENG
DATE:

DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	08/14/15
2	100% DESIGN COMPLETION	07/13/15
1	75% DESIGN COMPLETION	07/01/15
0	50% DESIGN COMPLETION	05/17/15

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

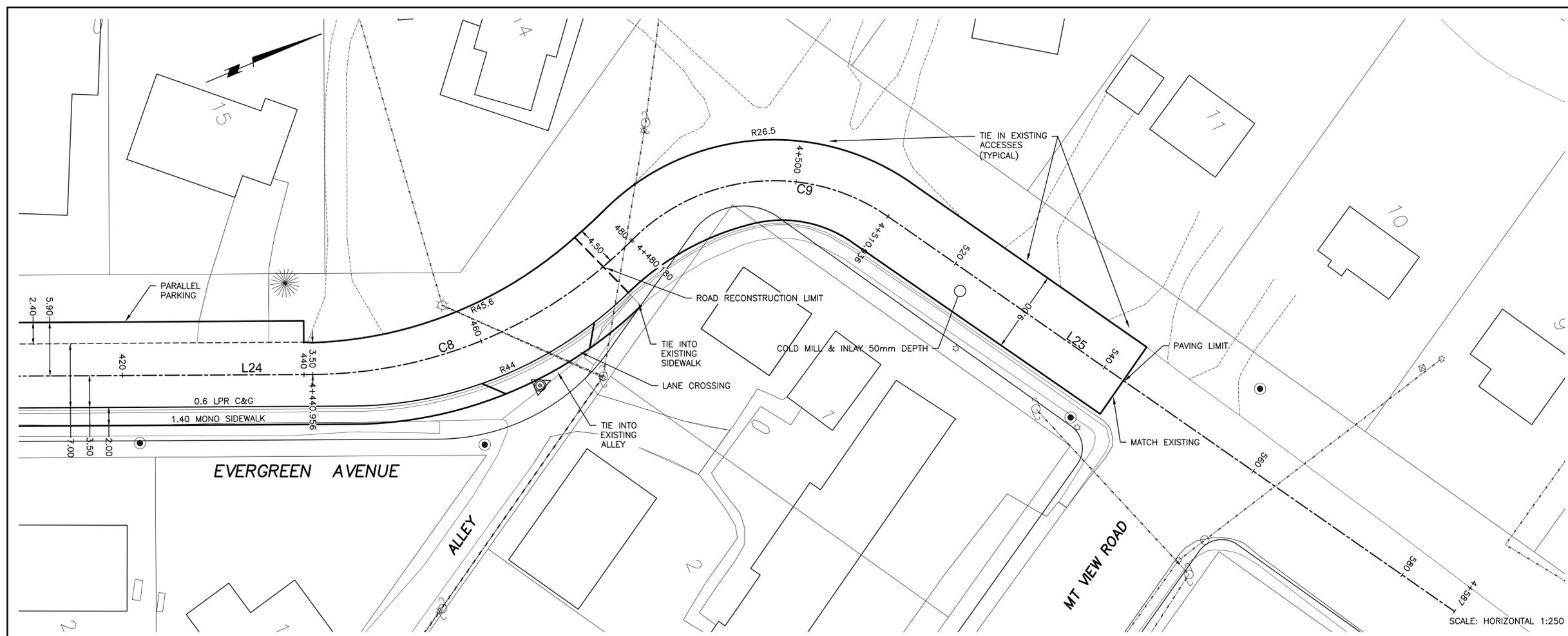
Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

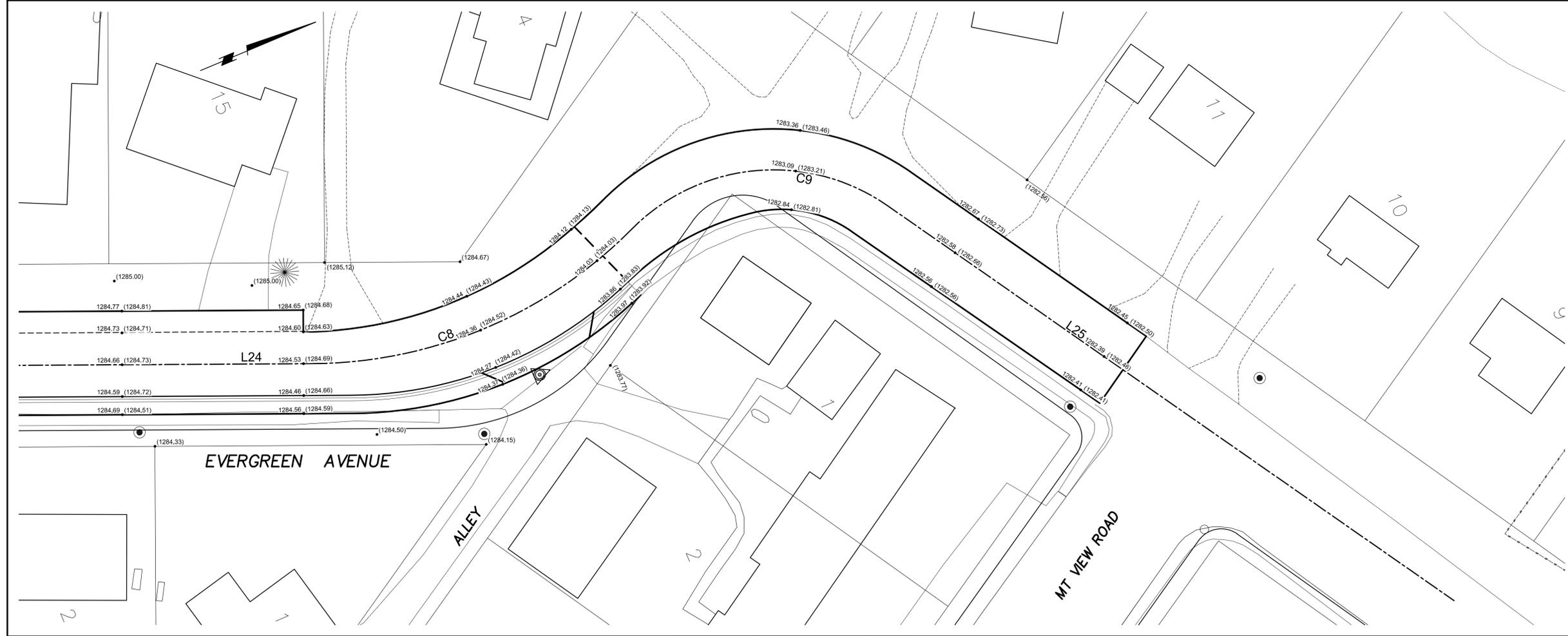
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A. FORSYTH
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B. JOHNSON
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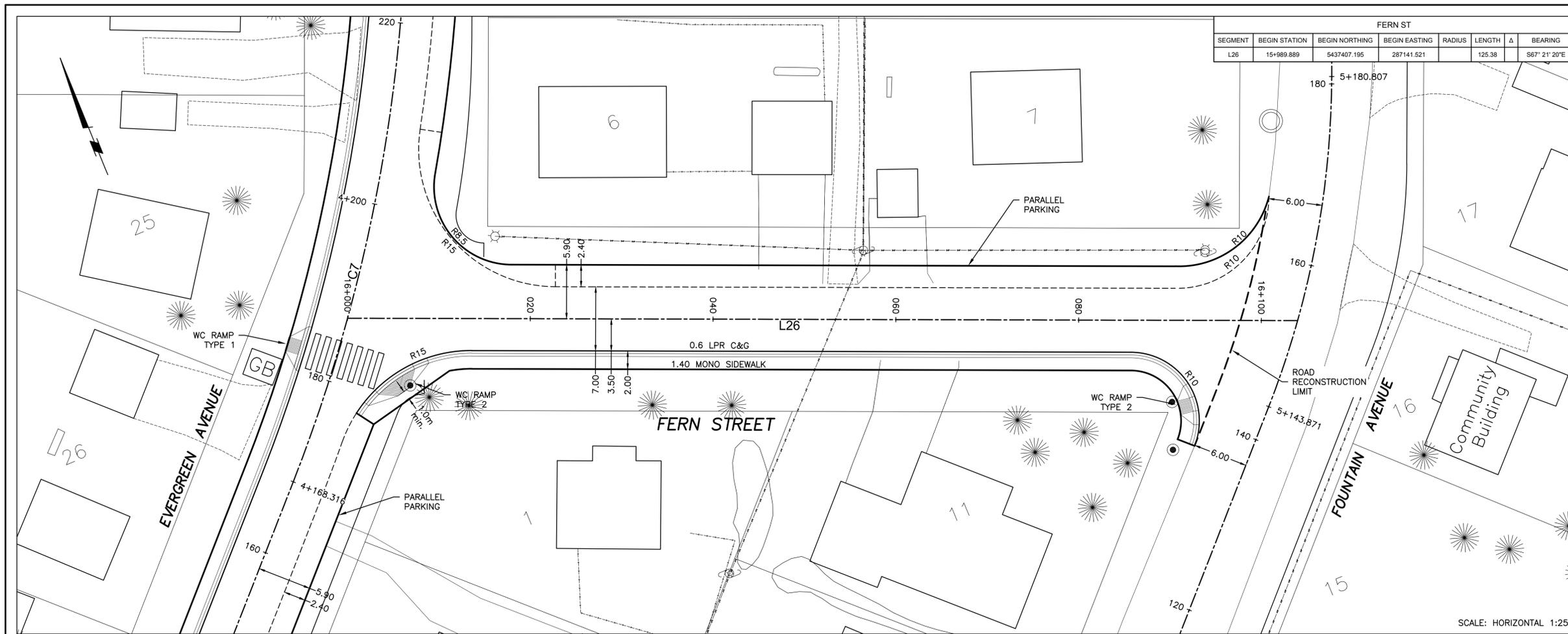
Client/client
J. LAMBE
Drawing title/Titre du dessin
SURFACE IMPROVEMENTS EVERGREEN AVENUE NORTH PLAN
Sta. 4+420 to Sta. 4+560

Project No./No. du projet R.075721.001	Sheet/Feuille C36 OF 41	Revision no./La Révision no. 3
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SCALE: HORIZONTAL 1:250





SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	Δ	BEARING
L26	15+989.889	5437407.195	287141.521		125.38		S67° 21' 20"E

Public Works and Government Services
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
1286.96 PROPOSED SURFACE ELEVATION

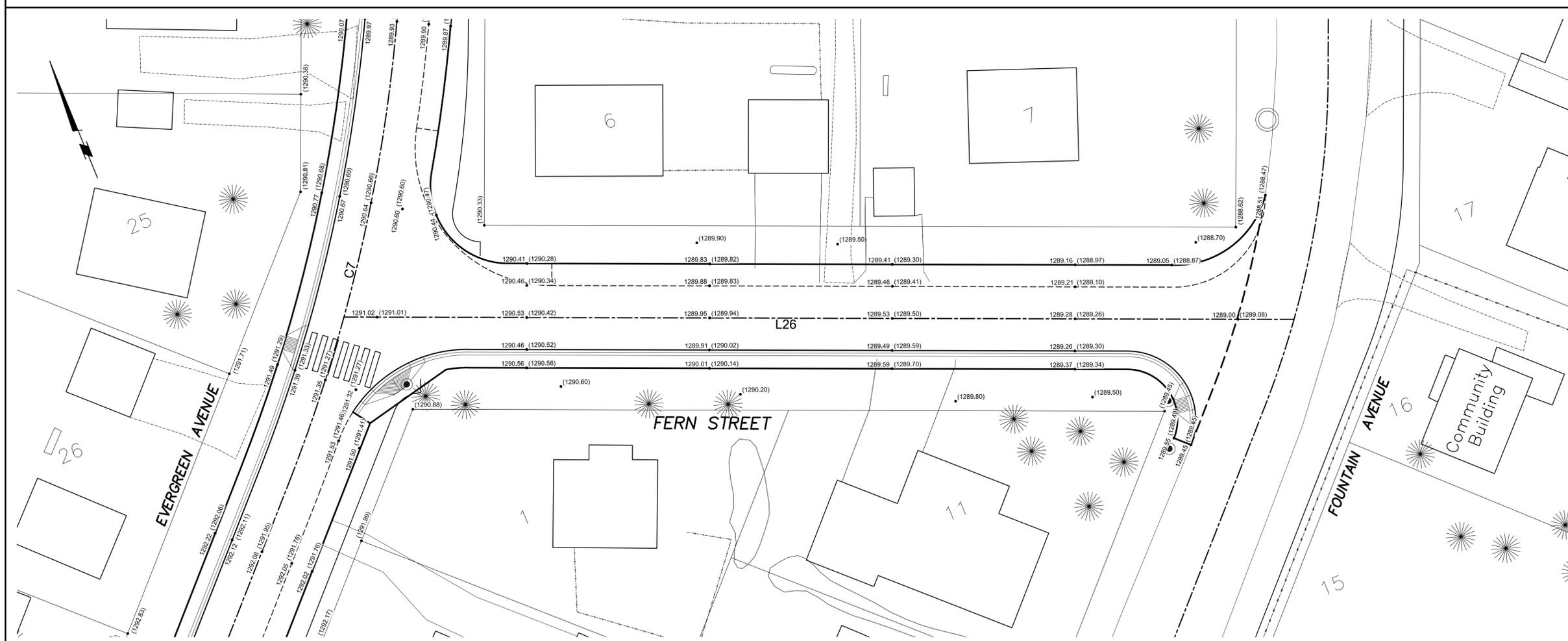
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PROFESSIONAL ENGINEER
ALBERTA
P. ENG
DATE:

SCALE: HORIZONTAL 1:250



DO NOT SCALE DRAWINGS

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

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

Approved by/Approve par
A. FORSYTH

Designed by/Concept par
B. JOHNSON

Drawn by/Dessiné par
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PWGSC Project Manager/Administrateur de Projets TP5GC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'ingénierie, TP5GC
J. LAMBE

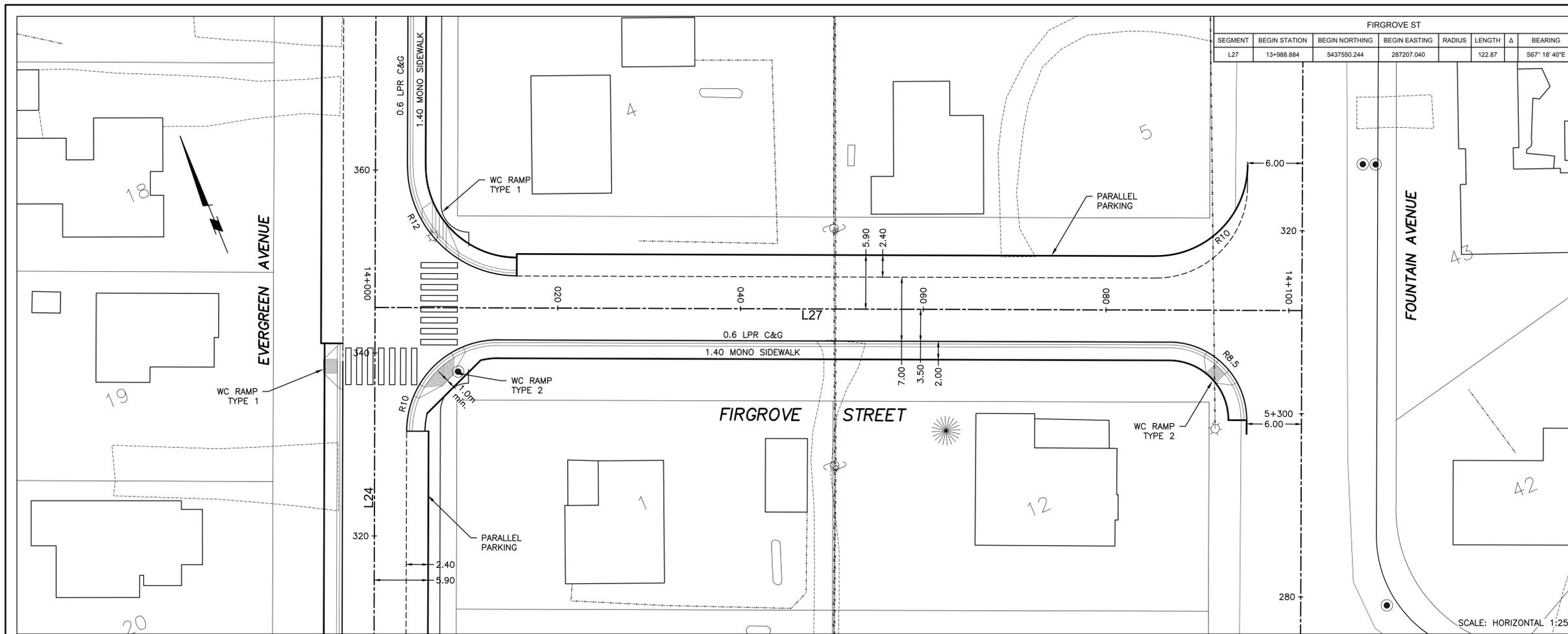
Client/client
J. LAMBE

Drawing title/Titre du dessin
**SURFACE IMPROVEMENTS
FERN STREET**

PLAN
Sta. 16+000 to Sta. 16+100

Project No./No. du projet R.075721.001	Sheet/Feuille C37 OF 41	Revision no./La Révision no. 3
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FIRGROVE ST						
SEGMENT	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	RADIUS	LENGTH	BEARING
L27	13+988.884	5437550.244	287207.040		122.87	S67° 18' 40"E

Public Works and Government Services
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

PRELIMINARY
NOT FOR CONSTRUCTION

(1287.16) EXISTING SURFACE ELEVATION
(1286.96) PROPOSED SURFACE ELEVATION

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ALBERTA
P. ENG
DATE:

DO NOT SCALE DRAWINGS

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

Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par
A. FORSYTH

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B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TP5GC
M. BURKE

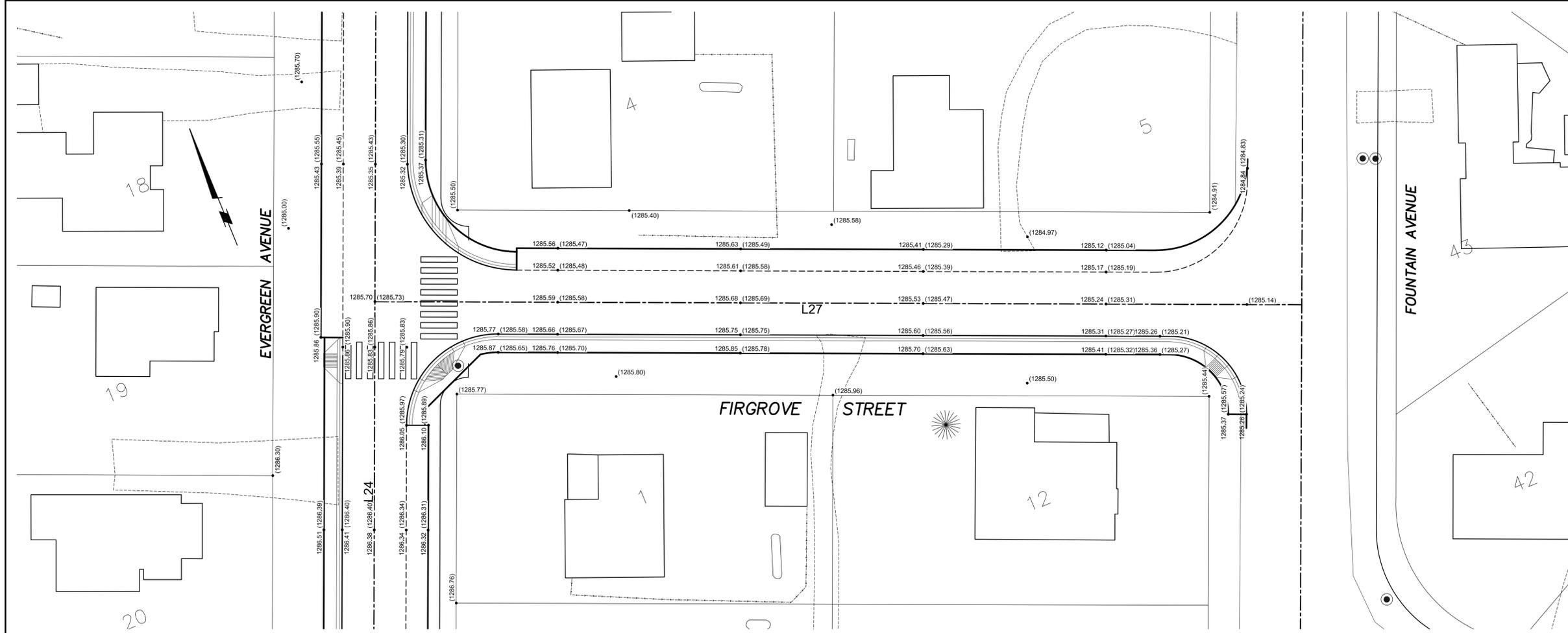
PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TP5GC
J. LAMBE

Client/client
J. LAMBE

Drawing title/Titre du dessin
SURFACE IMPROVEMENTS FIRGROVE STREET

PLAN
Sta. 14+000 to Sta. 14+100

Project No./No. du projet R.075721.001	Sheet/Feuille C38 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
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<p>Consultant's Name Nom de l'expert-conseil</p> <p>Amec Foster Wheeler Environment & Infrastructure 469 - 40th Street South Lethbridge, Alberta CANADA T1J 4M1 Tel: (403) 329-1467 Fax: (403) 327-4938</p>	<p>Eng. Stamp Sceau de l'ingénieur</p> <p>P. ENG. DATE:</p>
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Client/Client

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



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WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

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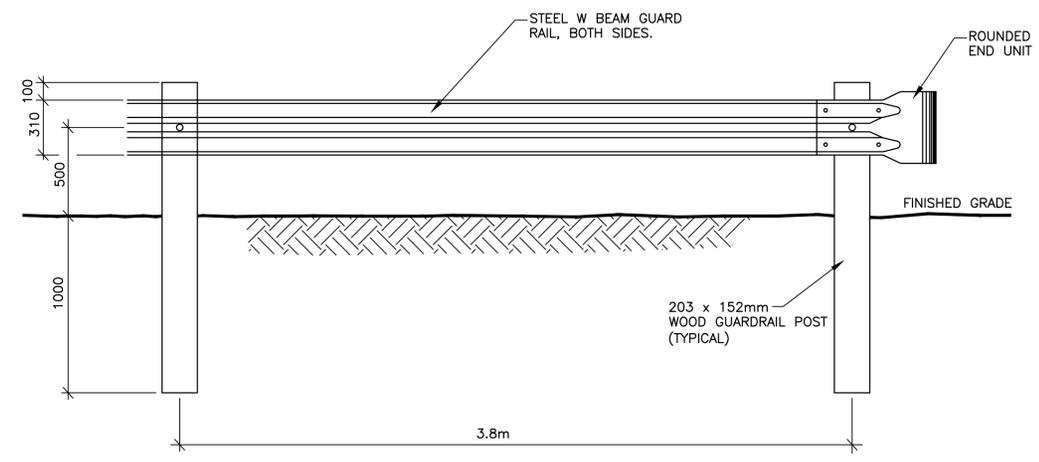
Drawn by/Dessiné par
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PWGSC Project Manager/Administrateur de Projets TPSCG
M. BURKE

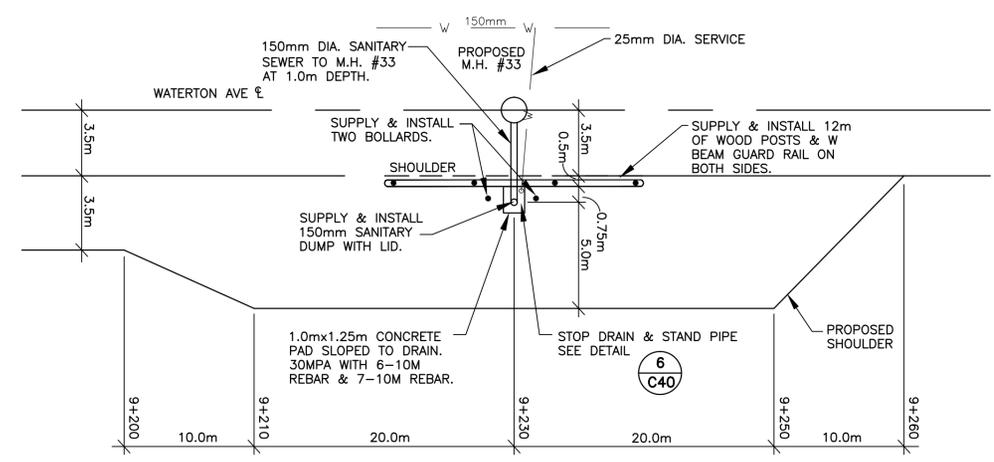
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG
J. LAMBE

Drawing title/Titre du dessin
SANITARY DUMP TRAILER DUMP STATION FLEX BEAM GUIDE RAIL BOLLARD DETAILS

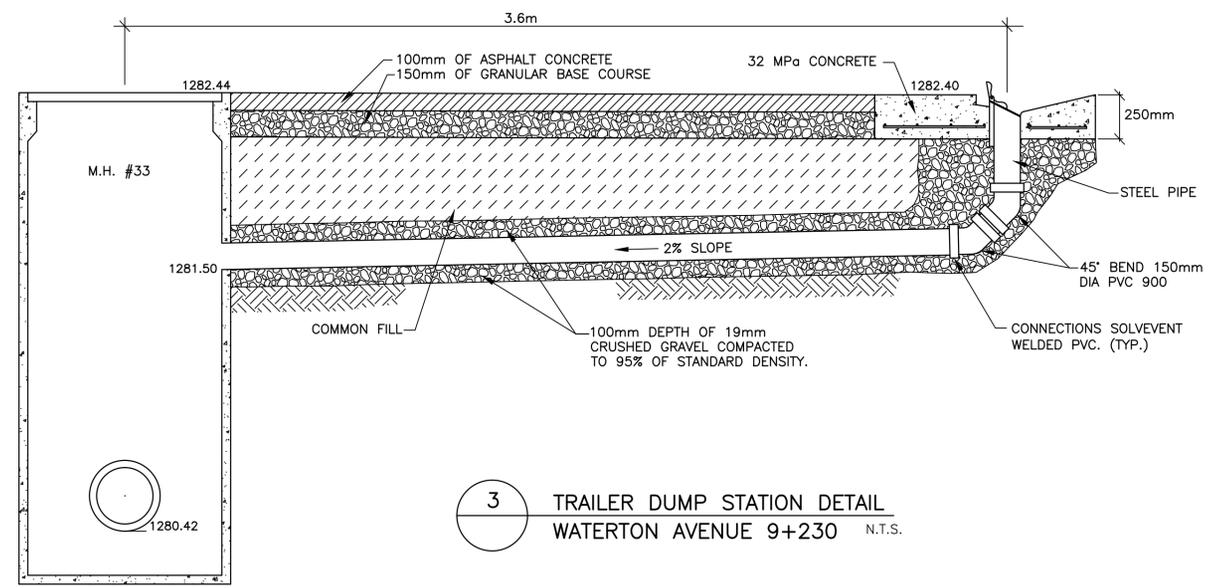
Project No./No. du projet R.075721.001	Sheet/Feuille C39 OF 41	Revision no./La Révision no. 3
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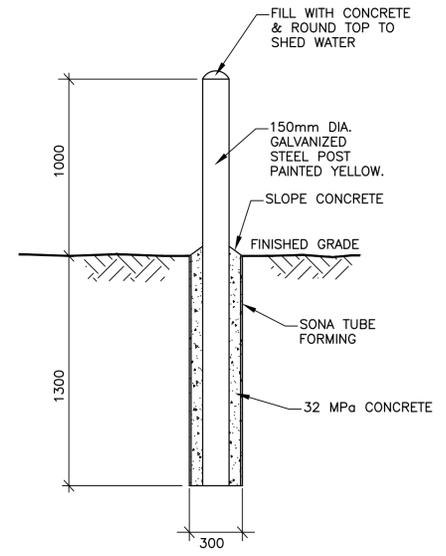
1 W BEAM GUARD RAIL DETAIL 1:20



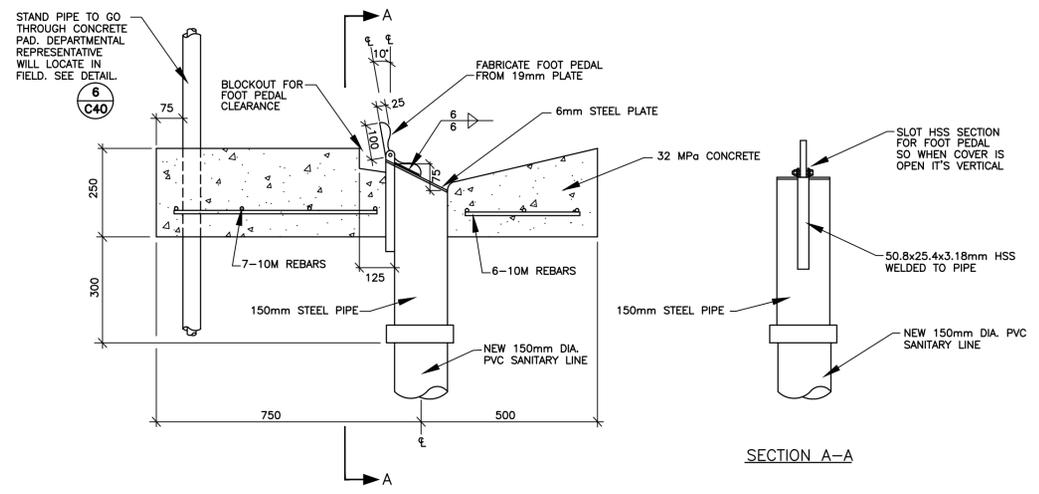
2 PROPOSED SANITARY DUMP DETAIL WATERTON AVENUE 9+230 N.T.S.



3 TRAILER DUMP STATION DETAIL WATERTON AVENUE 9+230 N.T.S.



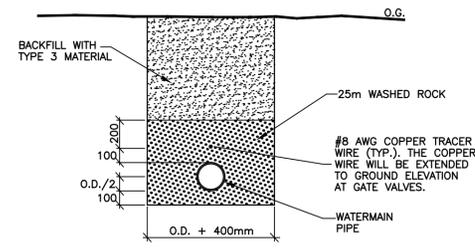
4 BOLLARD INSTALLATION DETAIL 1:20



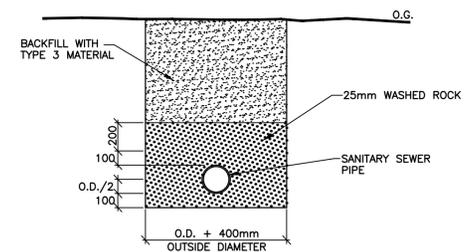
5 HATCH & SELF CLOSING DETAIL 1:10



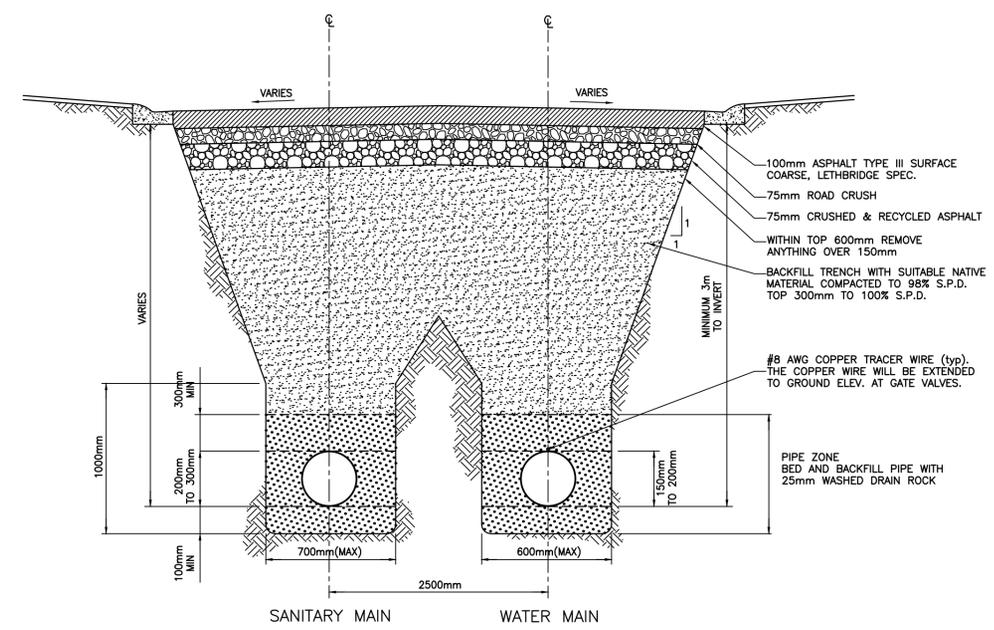
PRELIMINARY
NOT FOR CONSTRUCTION



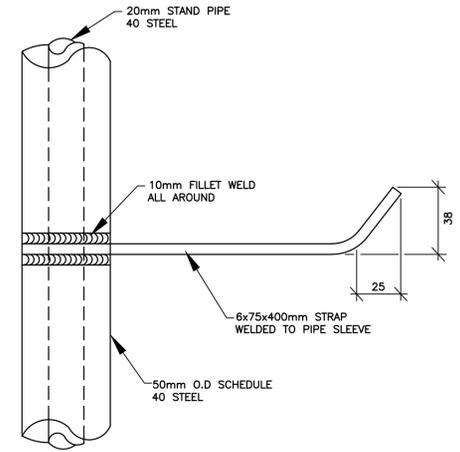
1 WATER LINE TRENCH DETAIL
N.T.S.



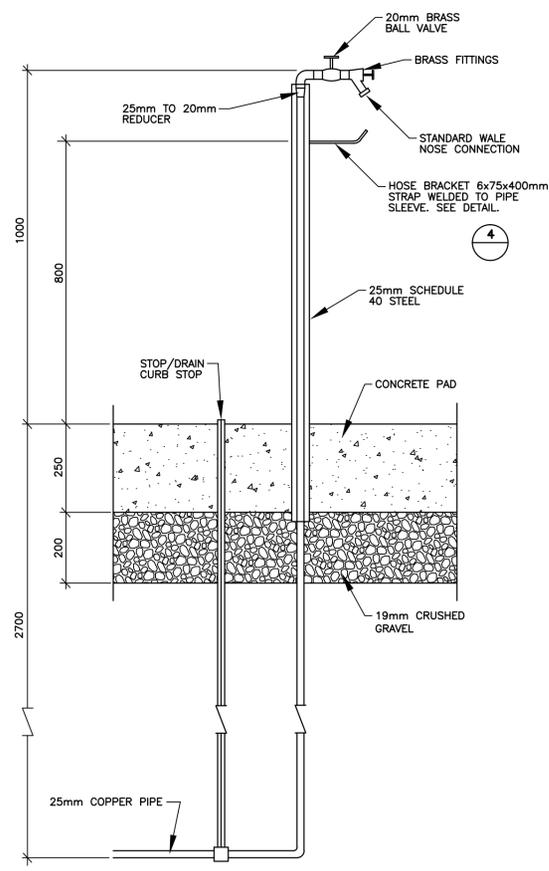
2 SANITARY SEWER TRENCH DETAIL
N.T.S.



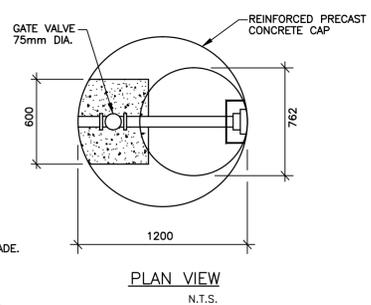
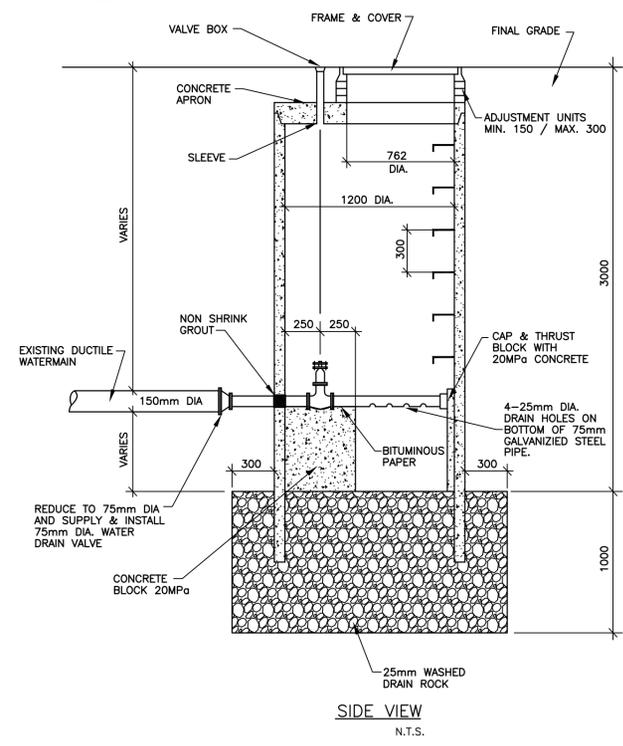
3 SIDE-BY-SIDE TRENCH DETAIL
N.T.S.



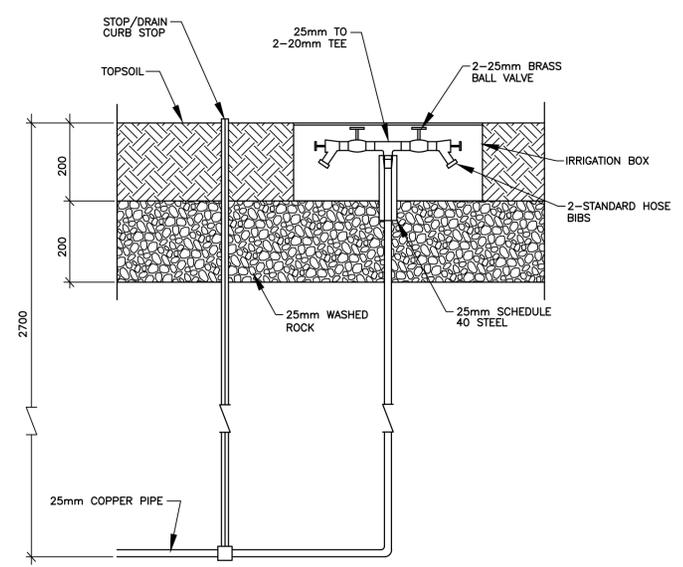
4 HOSE BRACKET DETAIL
N.T.S.



6 STAND PIPE DETAIL
@ DUMP STATION N.T.S.



7 DRAIN VALVE IN CHAMBER
N.T.S.



5 STAND PIPE DETAIL
N.T.S.

- NOTES**
1. PRECAST MANHOLE SECTIONS SHALL BE EQUAL TO A.S.T.M. SPECIFICATIONS C-478. LAST STEP TO BE 300 ABOVE BENCHING.
 2. STEPS: FIRST STEP TO BE 300 BELOW FINAL GRADE. LAST STEP TO BE 300 ABOVE BENCHING.
 3. ALL JOINTS AND LIFTING HOLES IN MANHOLE SECTIONS TO BE COMPLETELY FILLED WITH A 1:3 MORTAR MIX AND POINTED BEFORE BACKFILL.
 4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE LABELLED.

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Eng. Stamp
Sceau de l'ingénieur
PROFESSIONAL ENGINEER
ALBERTA
P. ENG.
DATE:

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3	ISSUED FOR TENDER	06/14/15
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1	70% DESIGN COMPLETION	07/01/15
0	50% DESIGN COMPLETION	05/17/15

Client/client

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

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B**
WATERTON NATIONAL PARK
ALBERTA

Approved by/Approuvé par

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B. JOHNSON

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M. BURKE

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Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client
J. LAMBE

Drawing title/Titre du dessin

**TRENCHING
DRAIN VALVE IN CHAMBER
STANDPIPE**

DETAILS

Project No./No. du projet
R.075721.001

Sheet/Feuille
C40
OF 41

Revision no./
La Révision
no. **3**

PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:
- FOR SURFACING MATERIALS AND LIFT THICKNESS REFER TO DETAIL 1
 - ALL CONCRETE CURBS & SIDEWALKS TO BE PLACED ON MIN. 100mm GBC.
 - EXISTING UTILITIES NOT SHOWN.
 - DAYLIGHT SLOPE TIES VARY FROM MAX. 2:1 TO MIN. HORIZONTAL. MAJORITY OF SLOPES ARE 10:1.
 - CONTRACTOR TO USE SUITABLE FILL FROM DEEP UTILITY AND ROAD RECONSTRUCTION WORK TO PLACE SIDESLOPE TIES TO ORIGINAL GROUND. THESE AREAS SHALL BE COVERED WITH 100mm TOPSOIL AND HYDROSEEDED.

amec foster wheeler

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
Amec Foster Wheeler Environment & Infrastructure	
469 - 40th Street South Lethbridge, Alberta CANADA T1J 4M1 Tel (403) 329-1467 Fax (403) 327-4938	P. ENG DATE:

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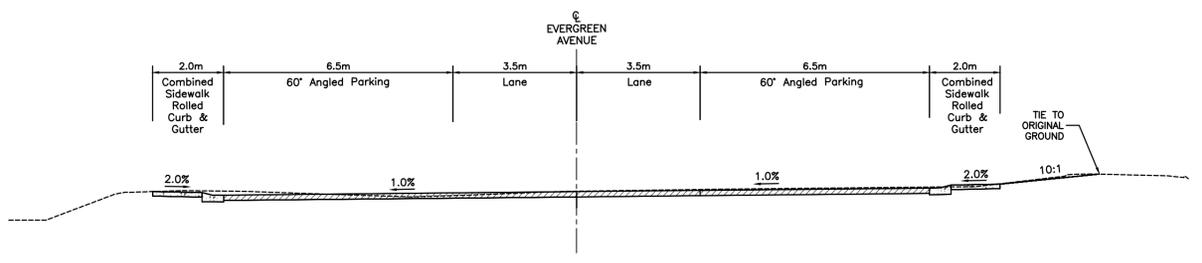
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WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

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Designed by/Concept par A. FORSYTH
Drawn by/Dessiné par B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSC M. BURKE
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSC J. LAMBE

Client/client
Drawing title/Titre du dessin
EVERGREEN AVE S, COLUMBINE AVE WATERTON AVE, EVERGREEN AVE N FERN ST, FIRGROVE ST

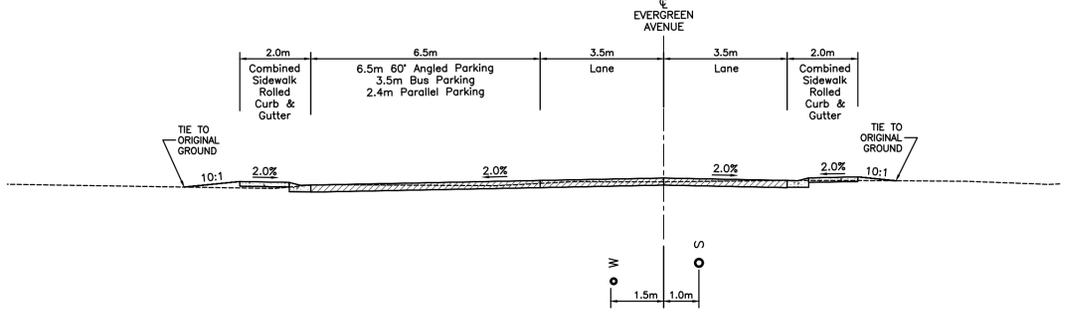
TYPICAL SECTIONS

Project No./No. du projet R.075721.001	Sheet/Feuille C41 OF 41	Revision no./La Révision no. 3
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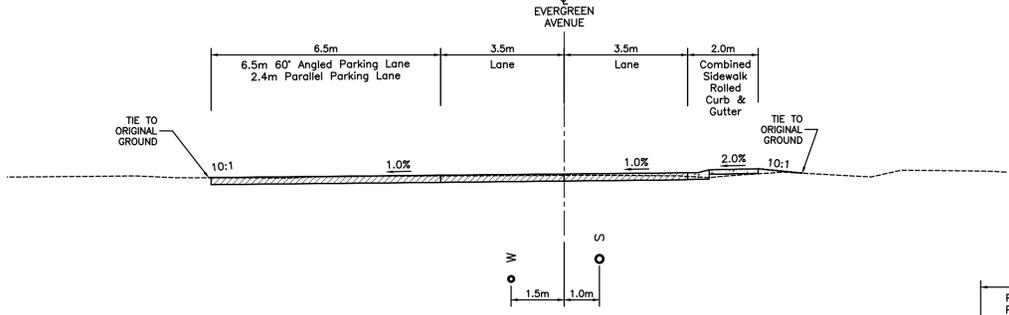
24+018 - 24+040 LT PARKING 6.5m/RT PARKING 6.5m

A EVERGREEN AVENUE S 1:100



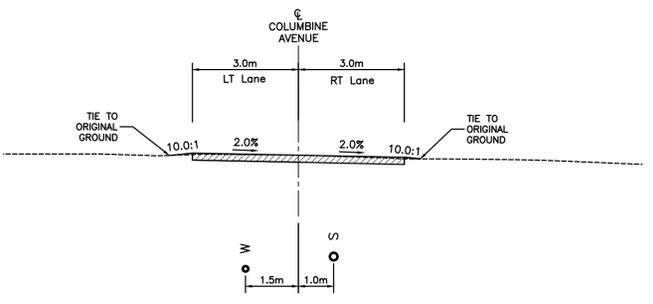
24+040 - 24+165 LT PARKING 6.5m
24+165 - 24+205 LT PARKING 3.5m
24+205 - 24+235 LT PARKING 2.4m LT CURB ONLY
24+235 - 24+260 LT PARKING 2.4m LT CURB ONLY CROSS SLOPE RT TO LT = 2%

B EVERGREEN AVENUE S 1:100



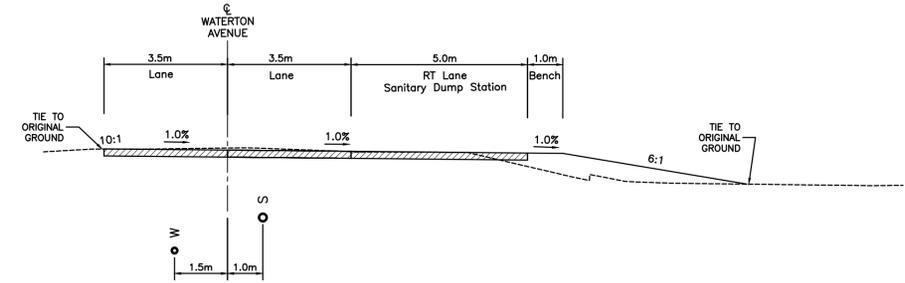
24+260 - 24+325 LT PARKING 0m
24+325 - 24+380 LT PARKING 6.5m
24+380 - 24+394 LT PARKING 0m
24+394 - 24+425 LT PARKING 6.5m
24+425 - 24+640 LT PARKING 2.4m

C EVERGREEN AVENUE S 1:100



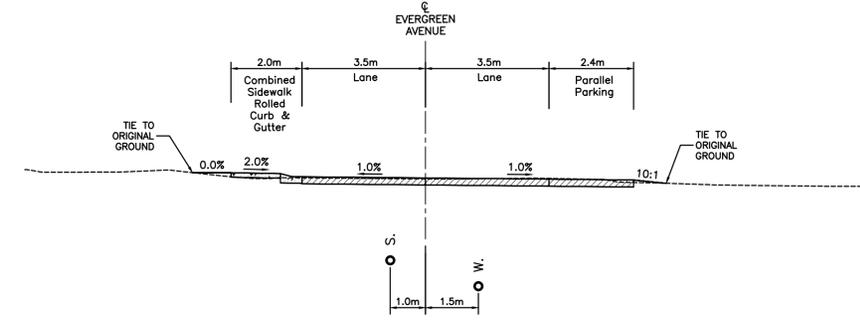
35+000 - 35+100 AS SHOWN
35+100 - 35+122 WIDTH VARIES UP TO 9mLT 4mRT

D COLUMBINE AVENUE 1:100



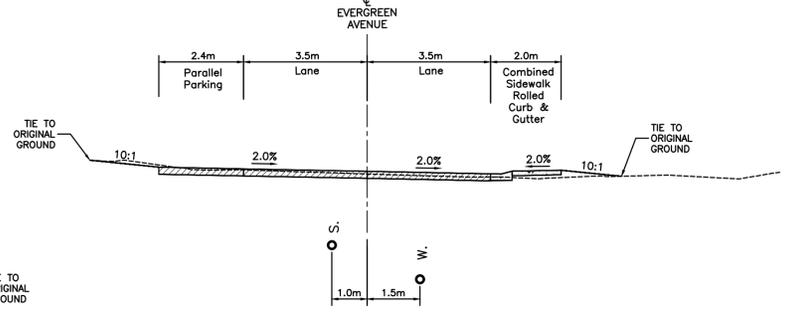
9+116 - 9+163 WIDTH VARIES
9+163 - 9+200 RT DUMP LANE 3.5m, 1.0m BENCH
9+200 - 9+250 AS SHOWN 5m DUMP STATION LANE, 1.0m BENCH
9+250 - 9+430 NO LANE FOR DUMP STATION OR BENCH

E WATERTON AVENUE 1:100



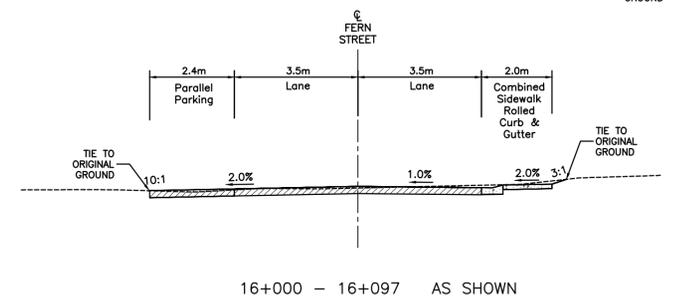
4+030 - 4+326 AS SHOWN

F EVERGREEN AVENUE N 1:100



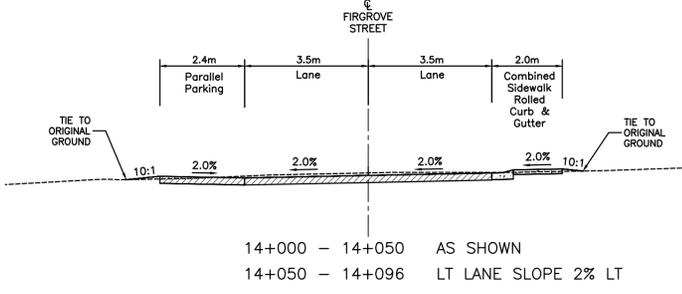
4+326 - 4+441 AS SHOWN
4+441 - 4+543 50mm MILL & INLAY LANES. LANE WIDTH VARIES 3.5-4.5m. CROSS SLOPE VARIES

G EVERGREEN AVENUE N 1:100



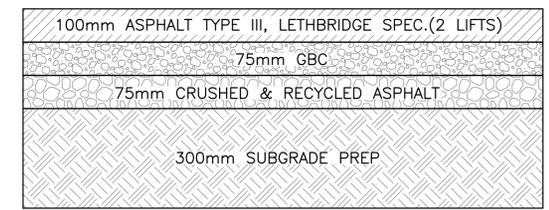
16+000 - 16+097 AS SHOWN

H FERN STREET 1:100



14+000 - 14+050 AS SHOWN
14+050 - 14+096 LT LANE SLOPE 2% LT

I FIRGROVE STREET 1:100



1 ROADWAY SURFACING DETAIL N.T.S.

PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:
1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
 2. THE SANITARY SEWER MANHOLE FRAME AND COVER SHALL BE DEMOLISHED AND WILL BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
 3. EXISTING MAINS ENCOUNTERED DURING INSTALLATION OF NEW UTILITIES TO BE REMOVED AND DISPOSED (TYPICAL).
 4. ALL EXISTING CURB STOPS TO BE REMOVED AND DISPOSED.

LEGEND

- ABANDON/DEMOLISH EXISTING UTILITY LINES
- REMOVE AND DISPOSE CONCRETE SURFACE



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B. ZACHER
PROFESSIONAL ENGINEER
P. ENG.
DATE:

DO NOT SCALE DRAWINGS

Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	05/17/18

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

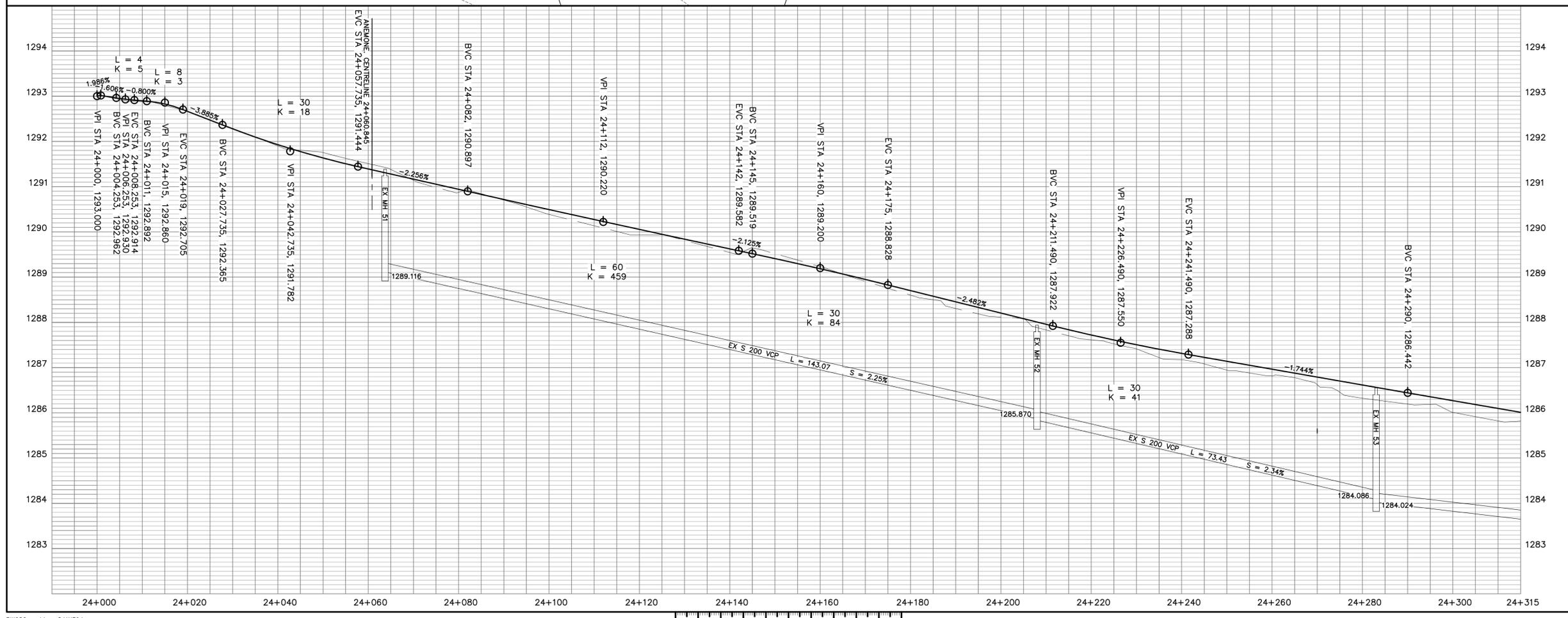
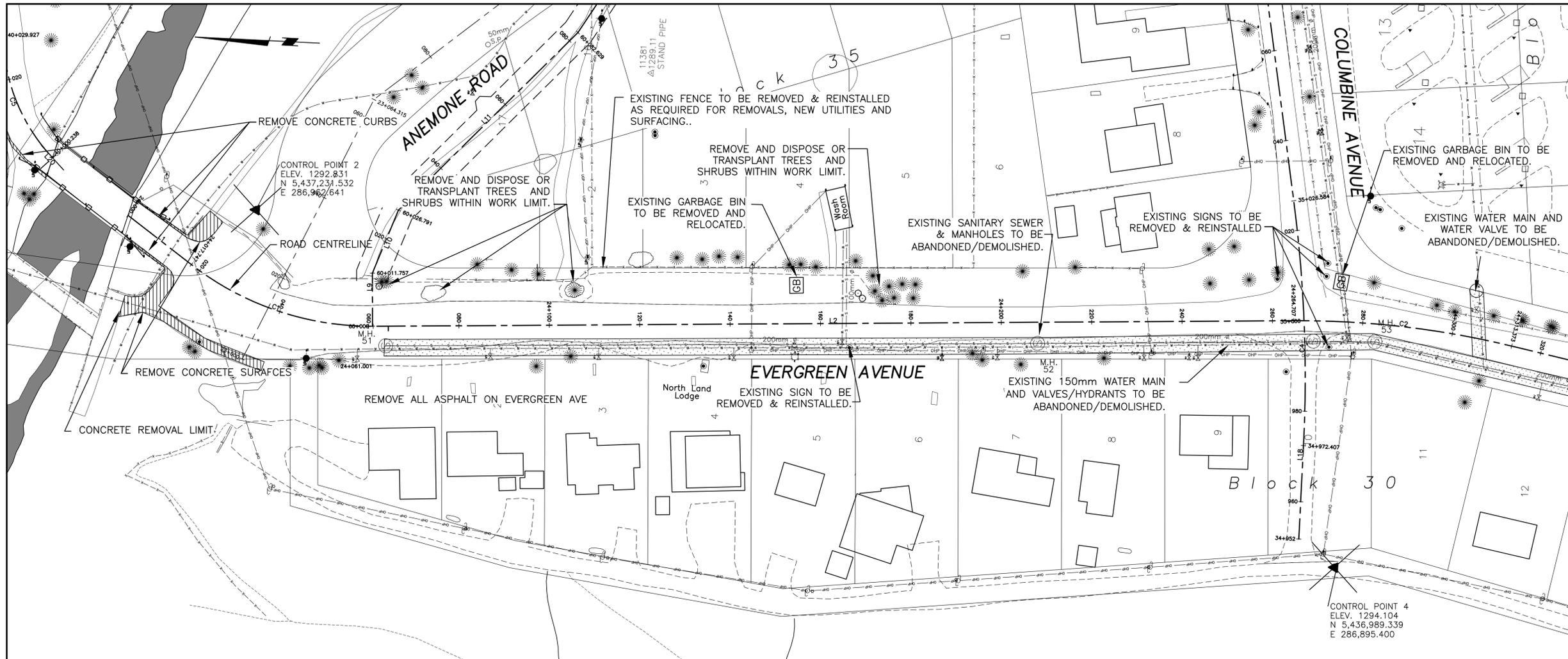
Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par
Designed by/Concepté par
B. ZACHER
Drawn by/Dessiné par
B. JOHNSON
PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
J. LAMBE
Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS EVERGREEN AVENUE SOUTH PLAN PROFILE
Sta. 24+000 to Sta. 24+300

Project No./No. du projet R.075721.001	Sheet/Feuille C3 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
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LEGEND

- ABANDON/DEMOLISH EXISTING UTILITY LINES

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Scale: Horiz. 1:500
Vert. 1:50

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3	ISSUED FOR TENDER	06/14/18
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0	50% DESIGN COMPLETION	06/17/18

Client/client

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

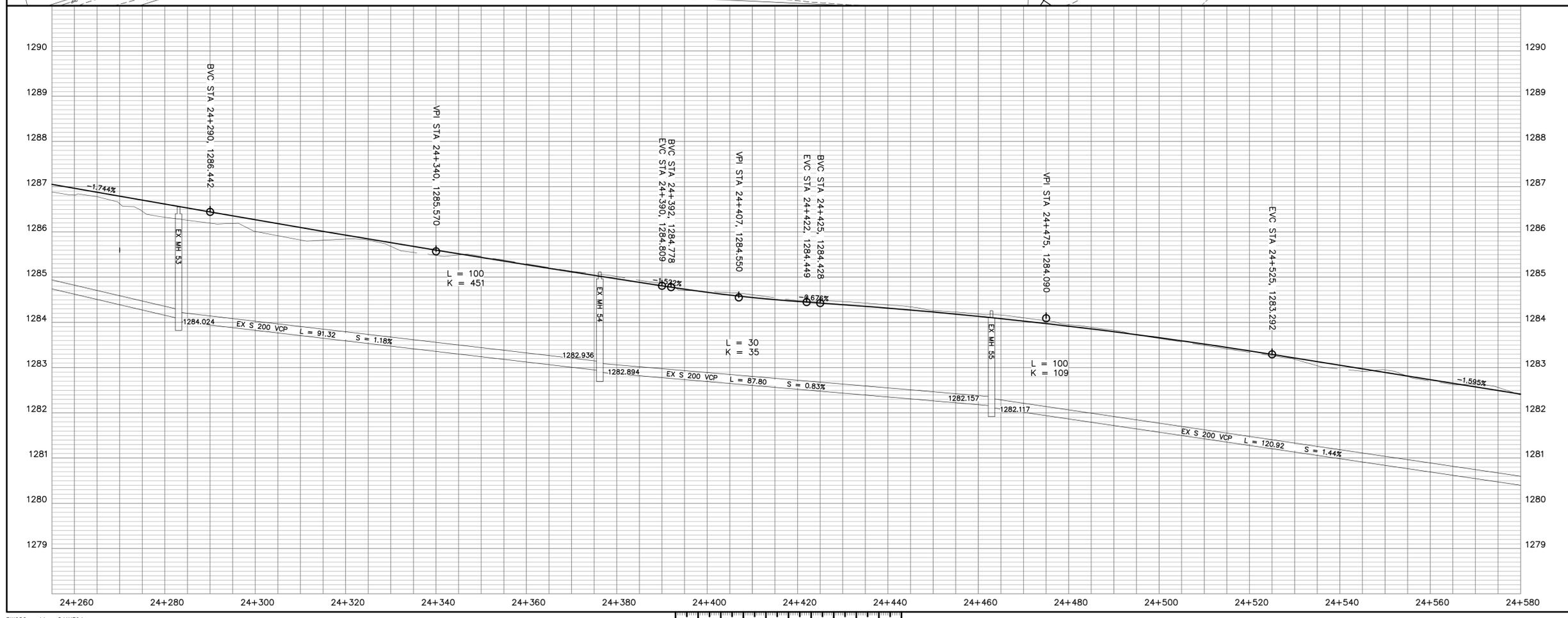
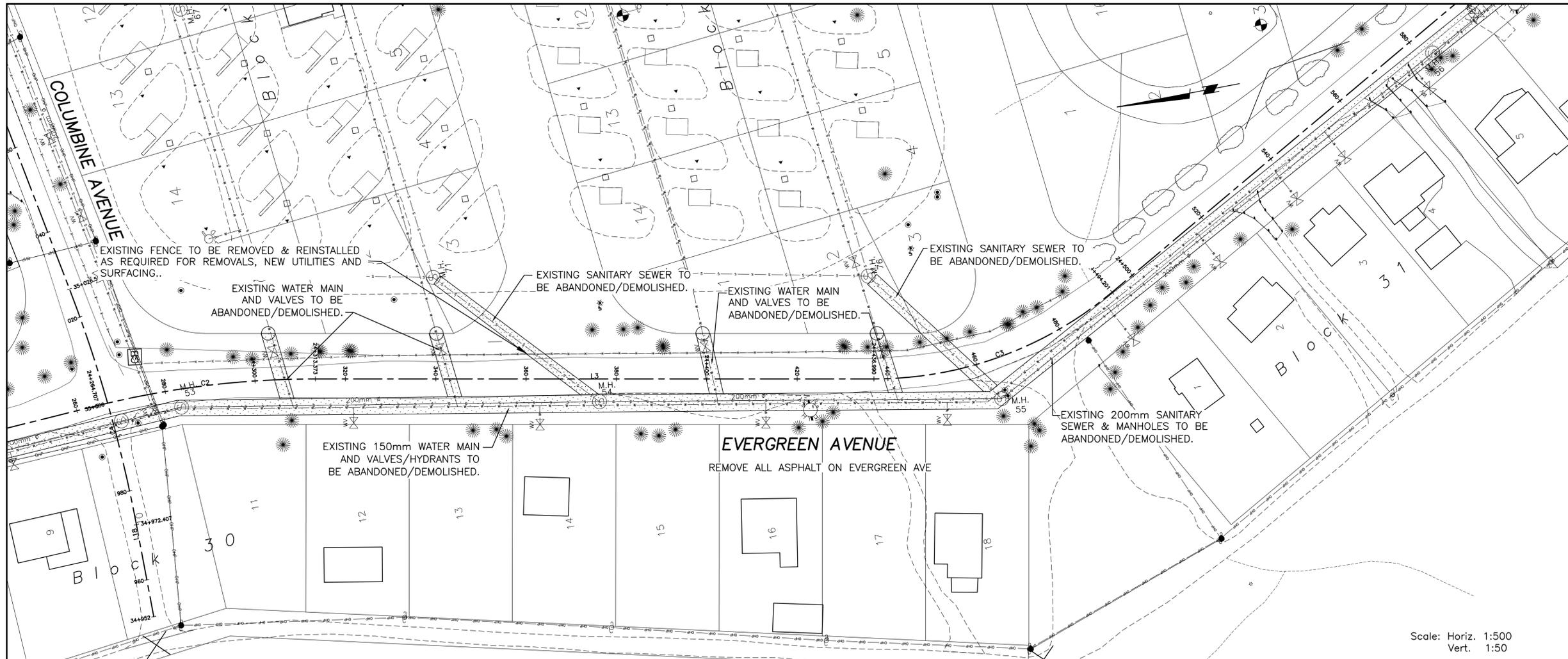
Client/client

J. LAMBE

Drawing title/Titre du dessin

REMOVALS & ADJUSTMENTS EVERGREEN AVENUE SOUTH
PLAN PROFILE
Sta. 24+280 to Sta. 24+540

Project No./No. du projet R.075721.001	Sheet/Feuille C4 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
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LEGEND

- ABANDON/DEMOLISH
- EXISTING UTILITY LINES

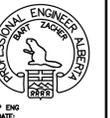
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Eng. Stamp
Sceau de l'ingénieur



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Revision/Revision	Description/Description	Date/Date
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4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	05/17/18

Client/client

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

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

Approved by/Approuvé par

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWGC Project Manager/Administrateur de Projets TPSGC
M. BURKE

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Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

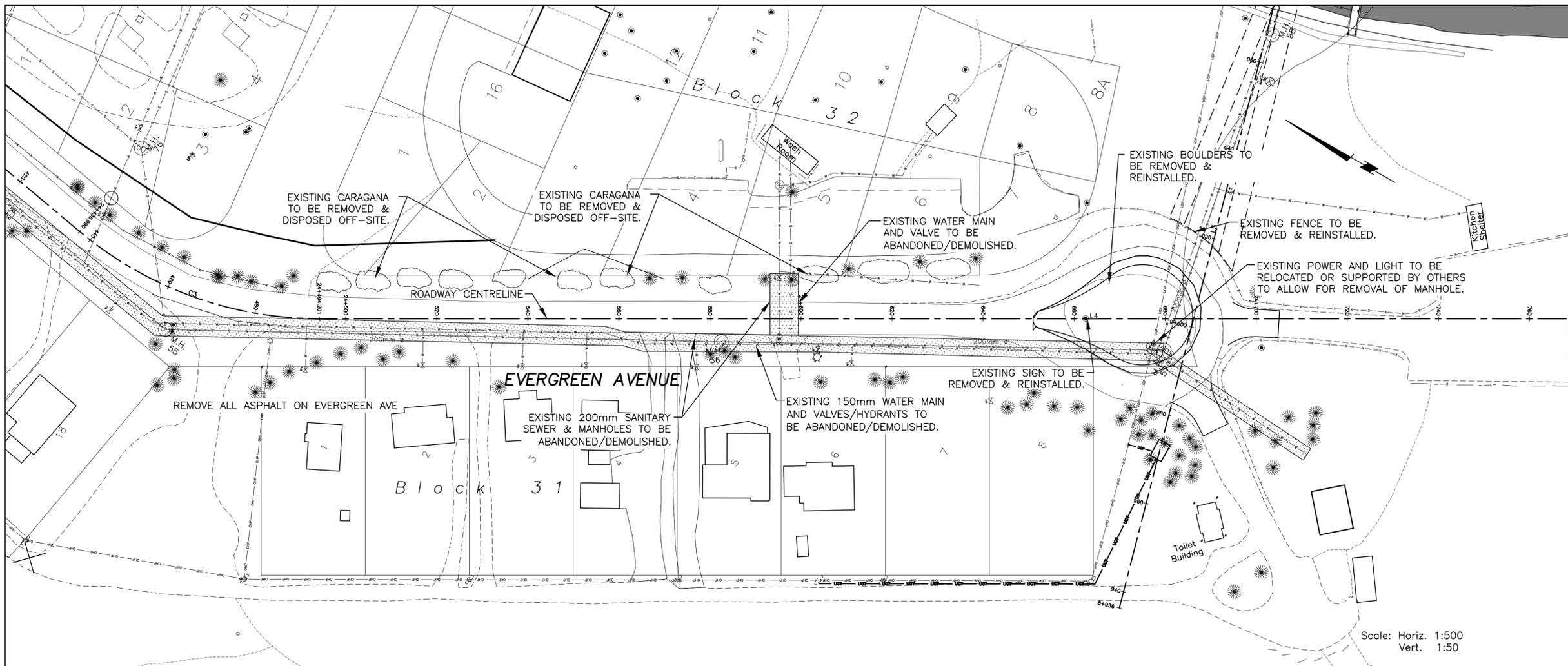
J. LAMBE

Drawing title/Titre du dessin
**REMOVALS & ADJUSTMENTS
EVERGREEN AVENUE
SOUTH
PLAN PROFILE
Sta. 24+440 to Sta. 24+740**

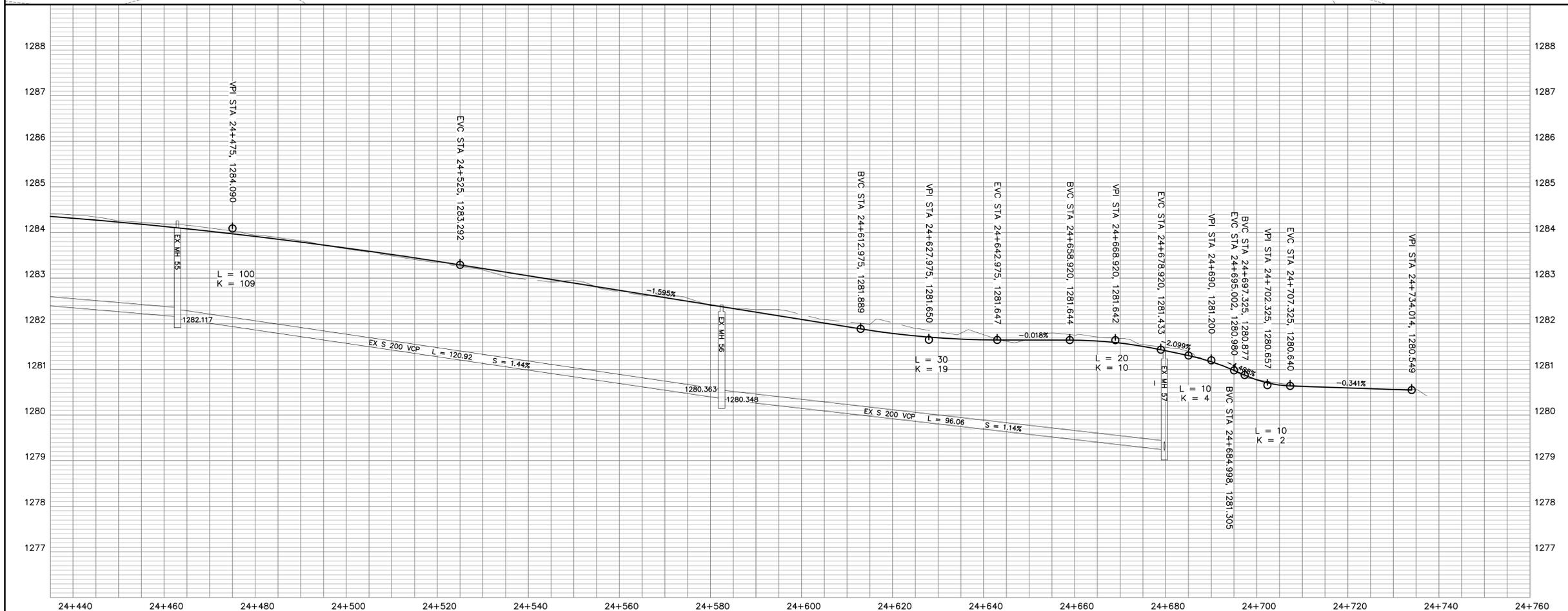
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R.075721.001

Sheet/Feuille
C5
OF 41

Revision no./
La Révision no.
3



Scale: Horiz. 1:500
Vert. 1:50



PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

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4. ALL EXISTING CURB STOPS TO BE REMOVED AND DISPOSED.

LEGEND

- ABANDON/DEMOLISH EXISTING UTILITY LINES

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Sceau de l'ingénieur
B. ZACHER
PROFESSIONAL ENGINEER
P. ENG.
DATE:

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5		
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3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
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Revision/	Description/Description	Date/Date
Revision/	Description/Description	Date/Date

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



Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

Approved by/Approve par

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWGC Project Manager/Administrateur de Projets TPSGC
M. BURKE

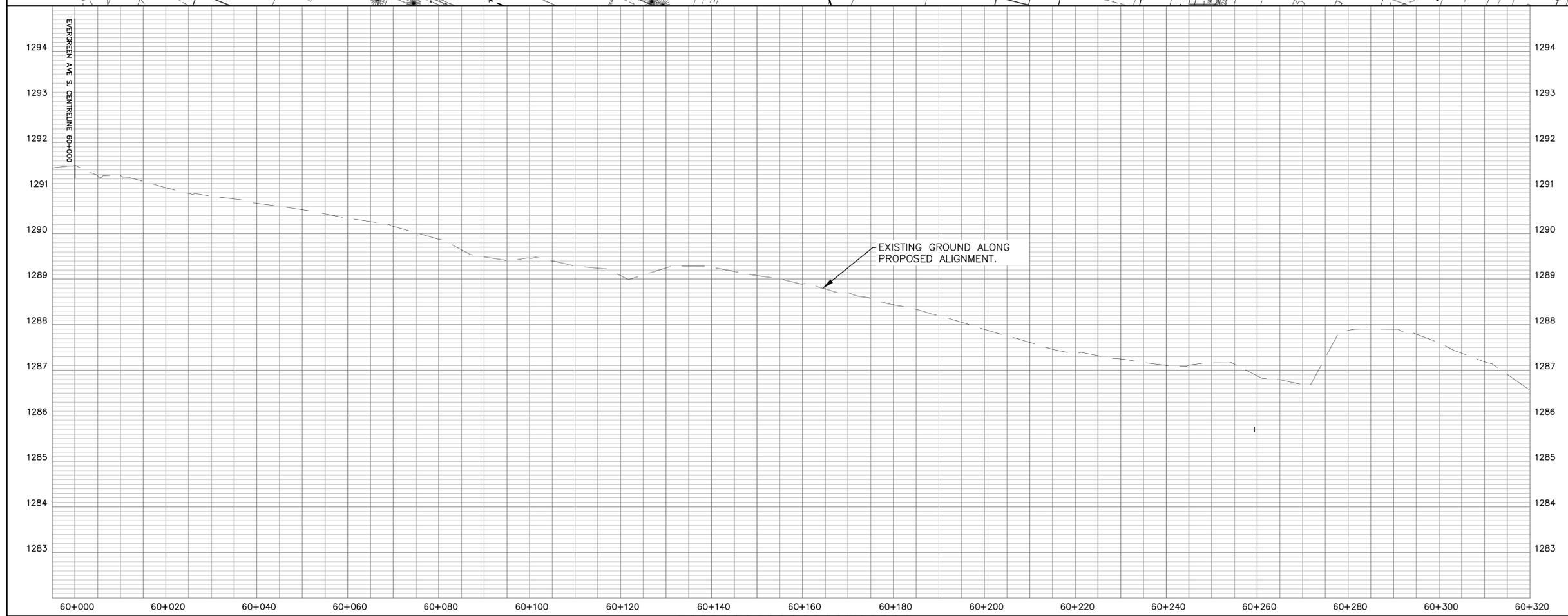
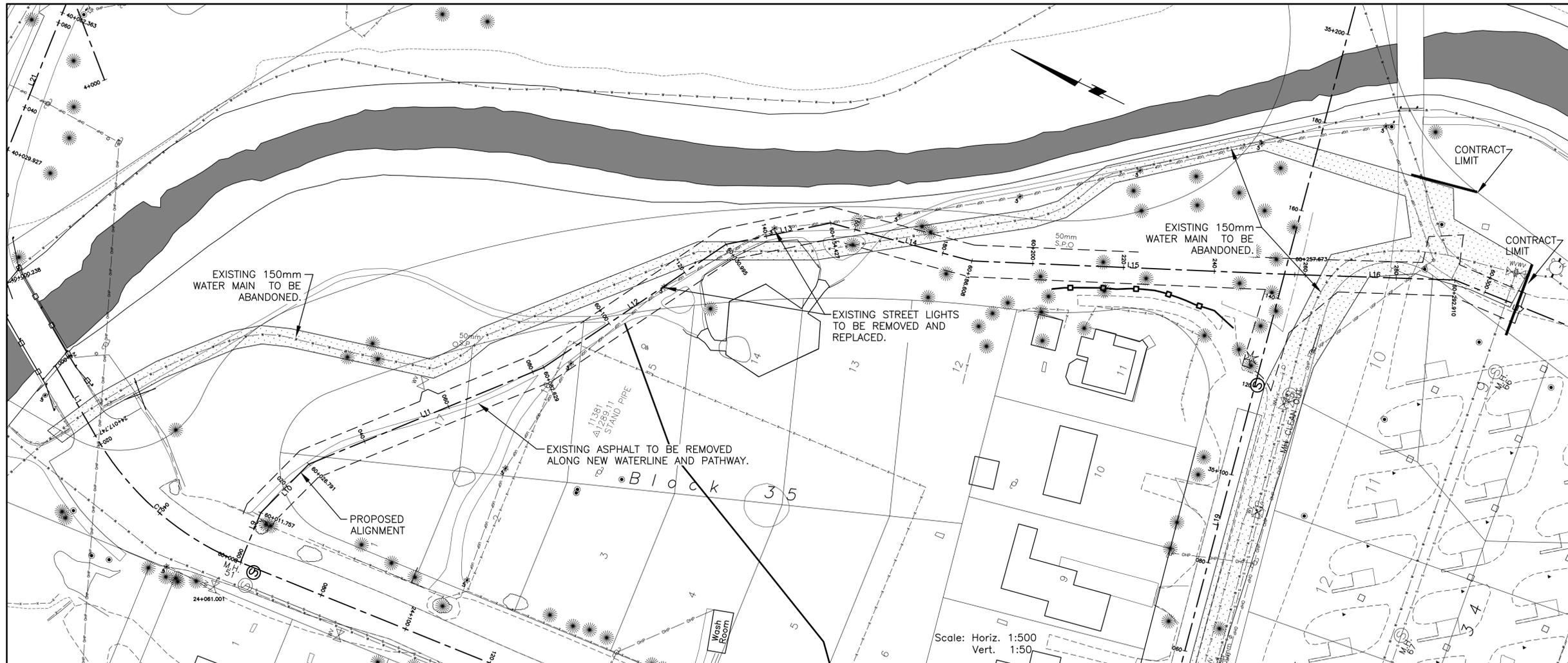
PWGC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
J. LAMBE

Drawing title/Titre du dessin

**REMOVALS & ADJUSTMENTS
ANEMONE ROAD
PLAN PROFILE
Sta. 60+000 to Sta. 60+300**

Project No./No. du projet R.075721.001	Sheet/Feuille C6 OF 41	Revision no./ La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:
1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
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LEGEND

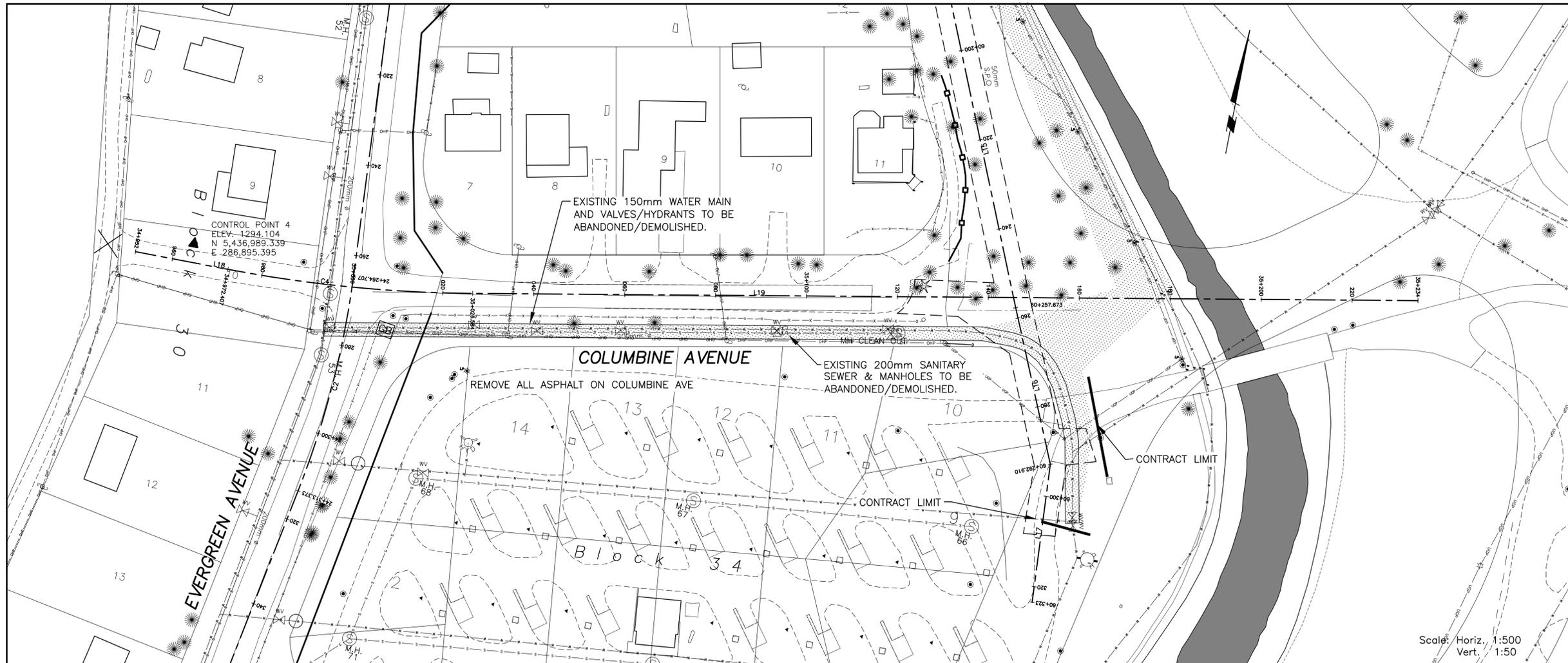
- ABANDON/DEMOLISH EXISTING UTILITY LINES

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P. ENG. DATE:

Scale: Horiz. 1:500
Vert. 1:50



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Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18

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



Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concepté par
B. ZACHER

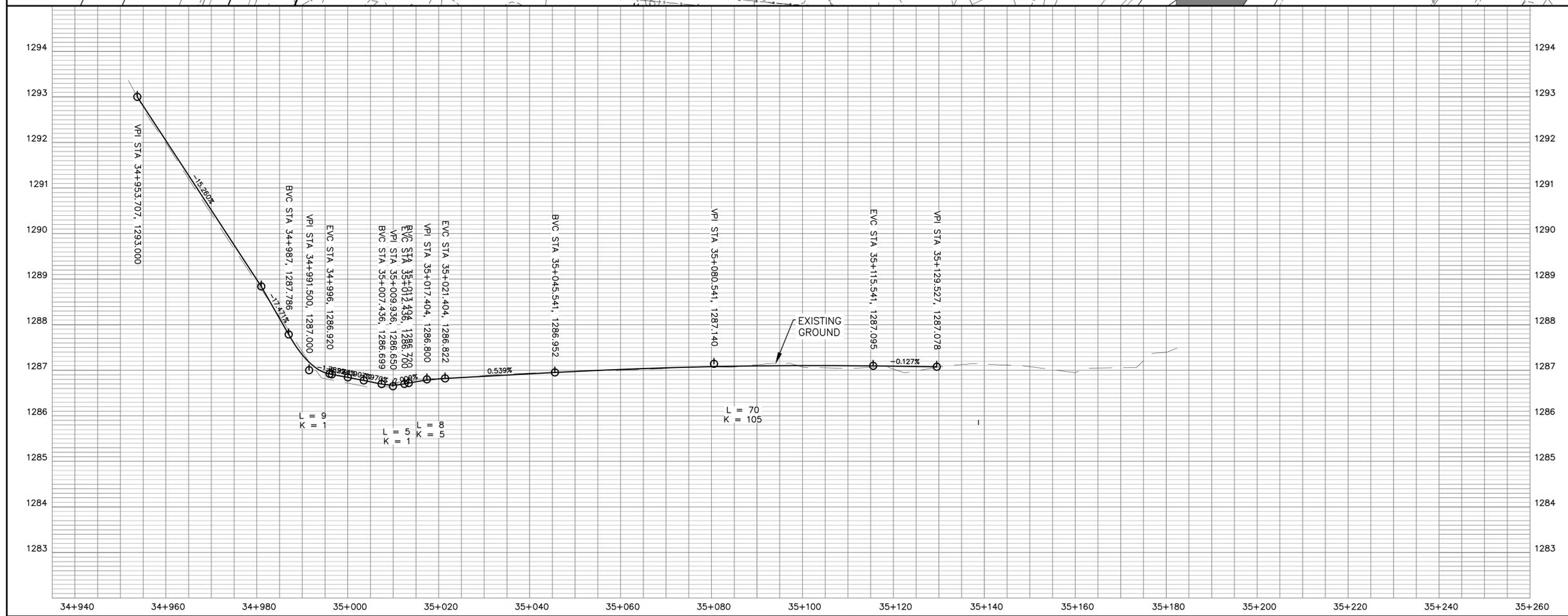
Drawn by/Dessiné par
B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC
J. LAMBE

Client/client
J. LAMBE
Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS COLUMBINE AVENUE PLAN PROFILE
Sta. 34+980 to Sta. 35+140

Project No./No. du projet R.075721.001	Sheet/Feuille C7 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:
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 4. ALL EXISTING CURB STOPS TO BE REMOVED AND DISPOSED.

LEGEND
 ABANDON/DEMOLISH EXISTING UTILITY LINES

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Eng. Stamp
Sceau de l'ingénieur

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3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18
Revision/Revision	Description/Description	Date/Date

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

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concept par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

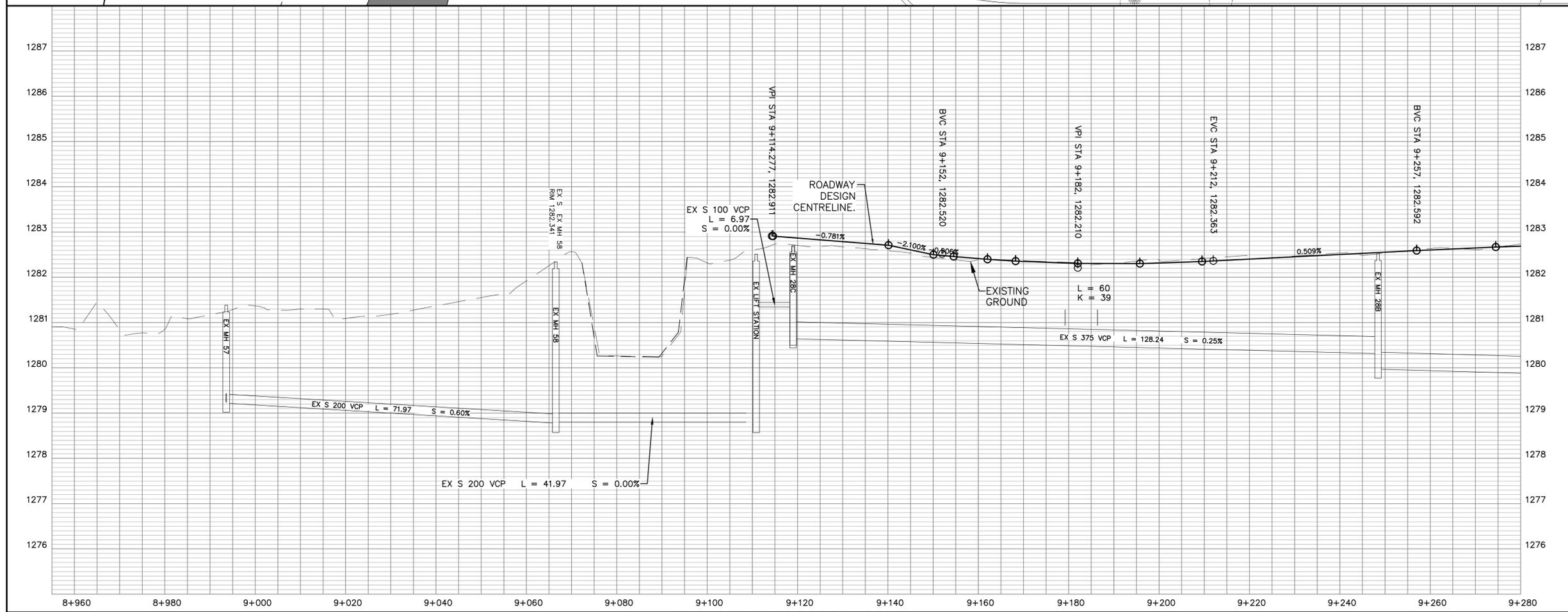
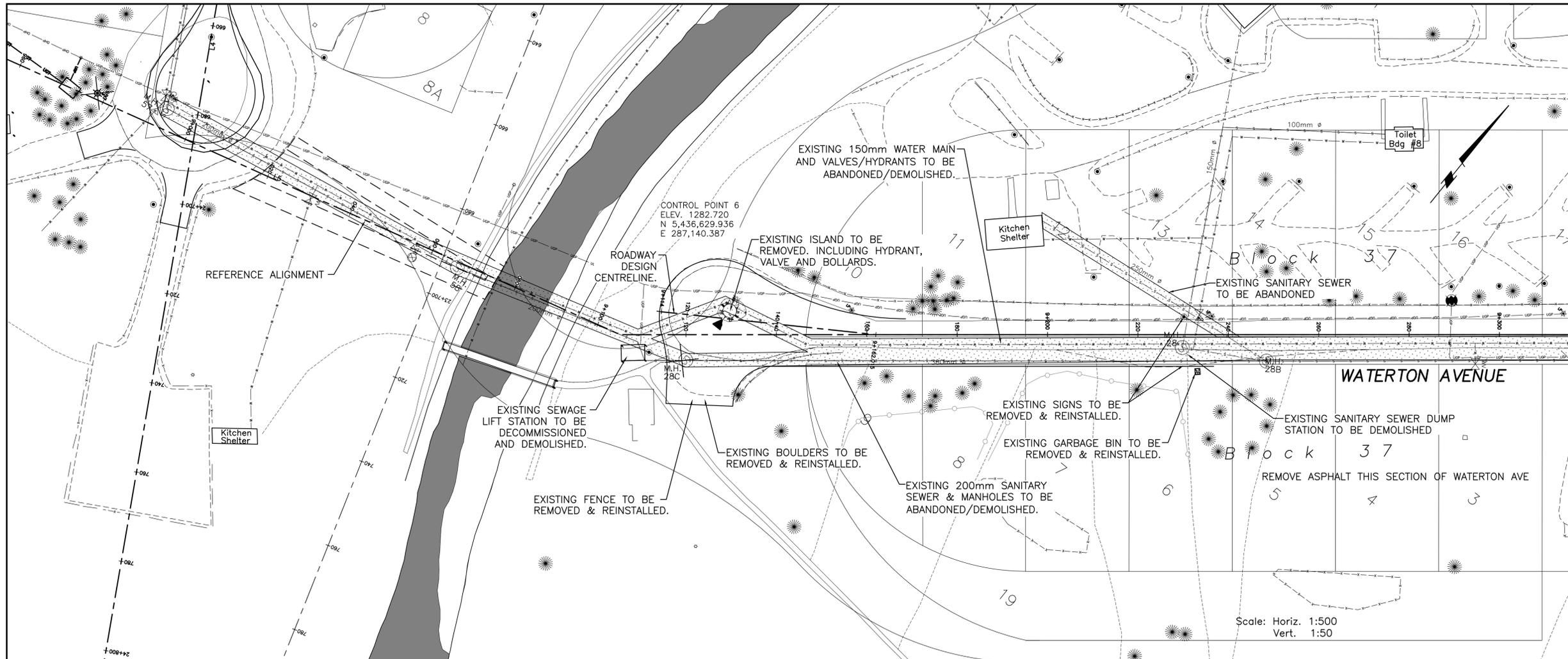
PWSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

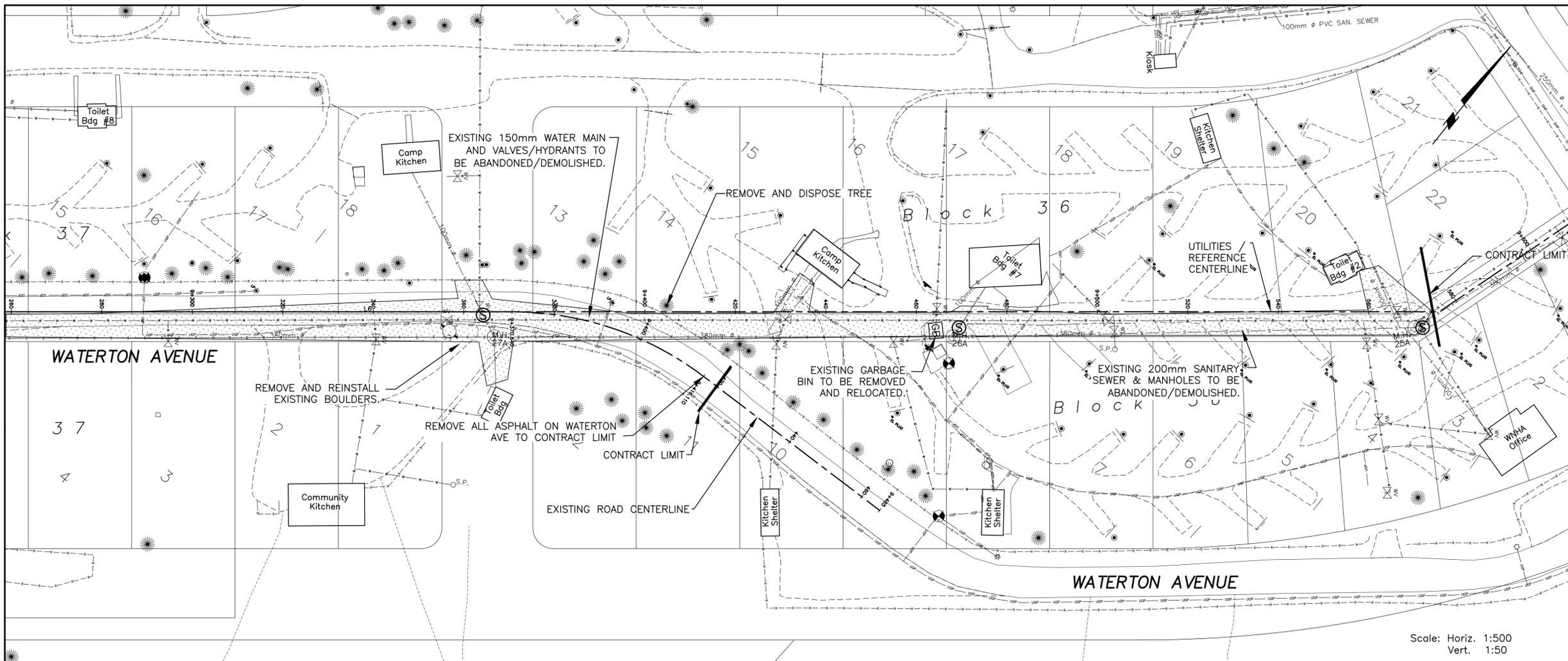
PWSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC
J. LAMBE

Client/client
J. LAMBE

Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS WATERTON AVENUE PLAN PROFILE
 Sta. 9+000 to Sta. 9+380

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.075721.001	C8 OF 41	3





- NOTES:
1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
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LEGEND

ABANDON/DEMOLISH EXISTING UTILITY LINES

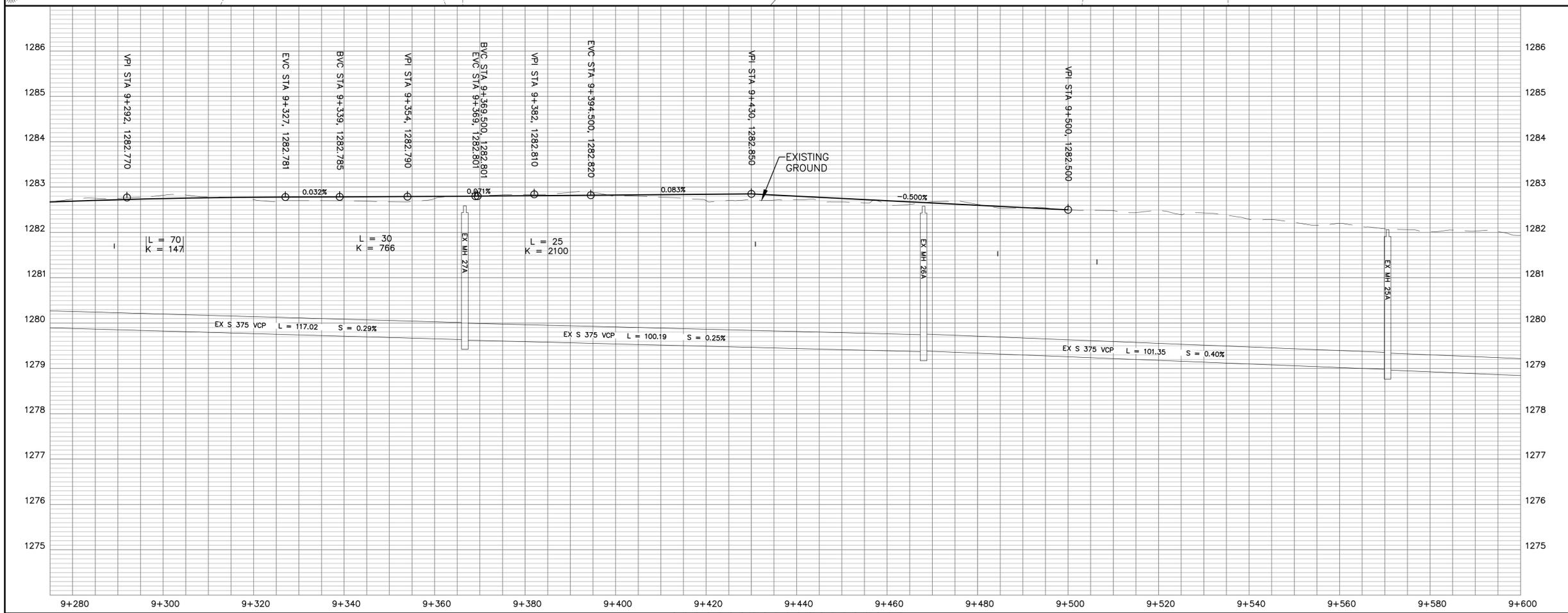


Consultant's Name / Nom de l'expert-conseil: Amec Foster Wheeler Environment & Infrastructure

Eng. Stamp / Scellum de l'ingénieur: PROFESSIONAL ENGINEER (ALTA) B. ZACHER

469 - 40th Street South, Lethbridge, Alberta CANADA T1J 4M1

Scale: Horiz. 1:500
Vert. 1:50



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Revision/	Description/Description	Date/Date
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4		
3	ISSUED FOR TENDER	06/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	05/17/18

Client/client: Parks Canada / L'Agence Parcs Canada

Western and Northern Region / Ouest et Nord du Canada

Canada

Project title/Titre du projet: **WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B**
WATERTON NATIONAL PARK ALBERTA

Approved by/Approve par: B. ZACHER

Designed by/Concept par: B. ZACHER

Drawn by/Dessiné par: B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TPSGC: M. BURKE

PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC: J. LAMBE

Client/client: J. LAMBE

Drawing title/Titre du dessin: **REMOVALS & ADJUSTMENTS WATERTON AVENUE PLAN PROFILE**
Sta. 9+380 to Sta.9+660

Project No./No. du projet: R.075721.001	Sheet/Feuille: C9 OF 41	Revision no./La Révision no.: 3
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PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:
1. THE EXISTING WATER MAIN APPURTENANCES (VALVES & FIRE HYDRANTS) SHALL BE DEMOLISHED & BECOME PROPERTY OF THE CONTRACTOR. (TYPICAL)
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LEGEND

	ABANDON/DEMOLISH EXISTING UTILITY LINES
	REMOVE AND DISPOSE CONCRETE SURFACE

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P. ENG.
DATE:

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

Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par
B. ZACHER

Designed by/Concepté par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

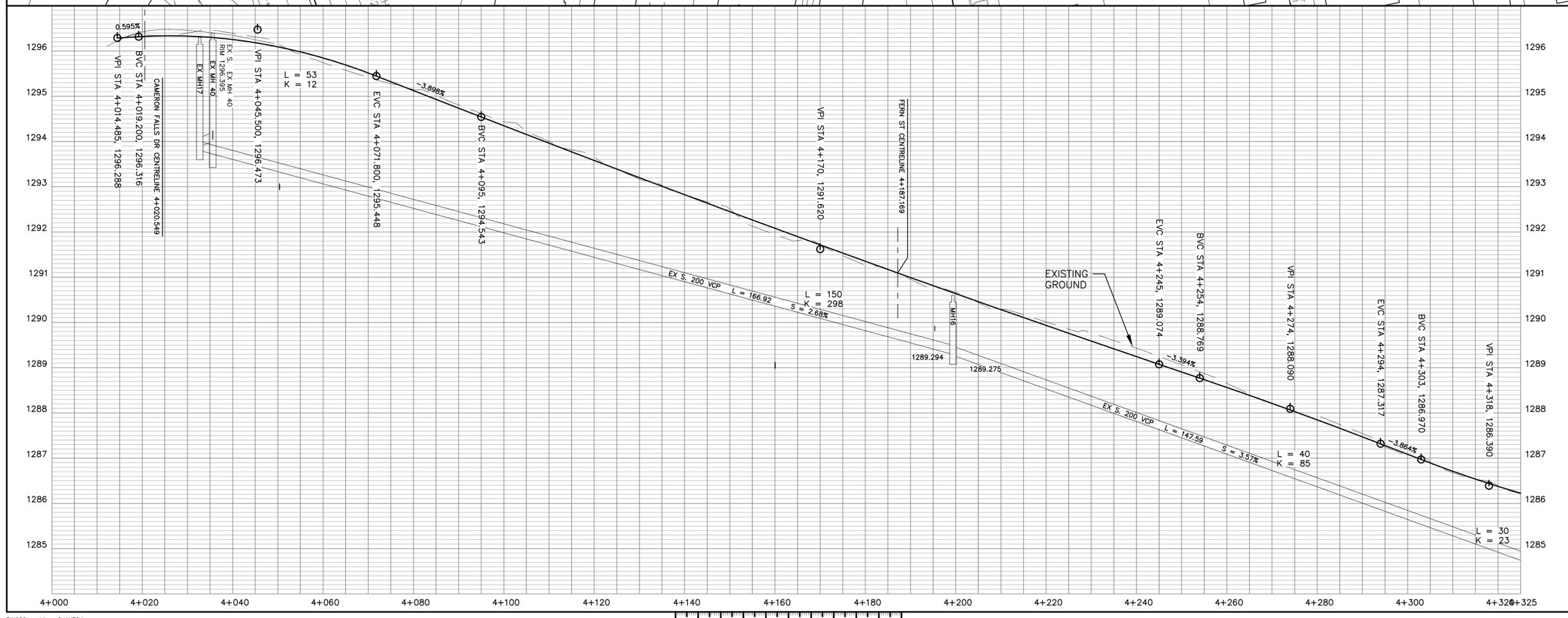
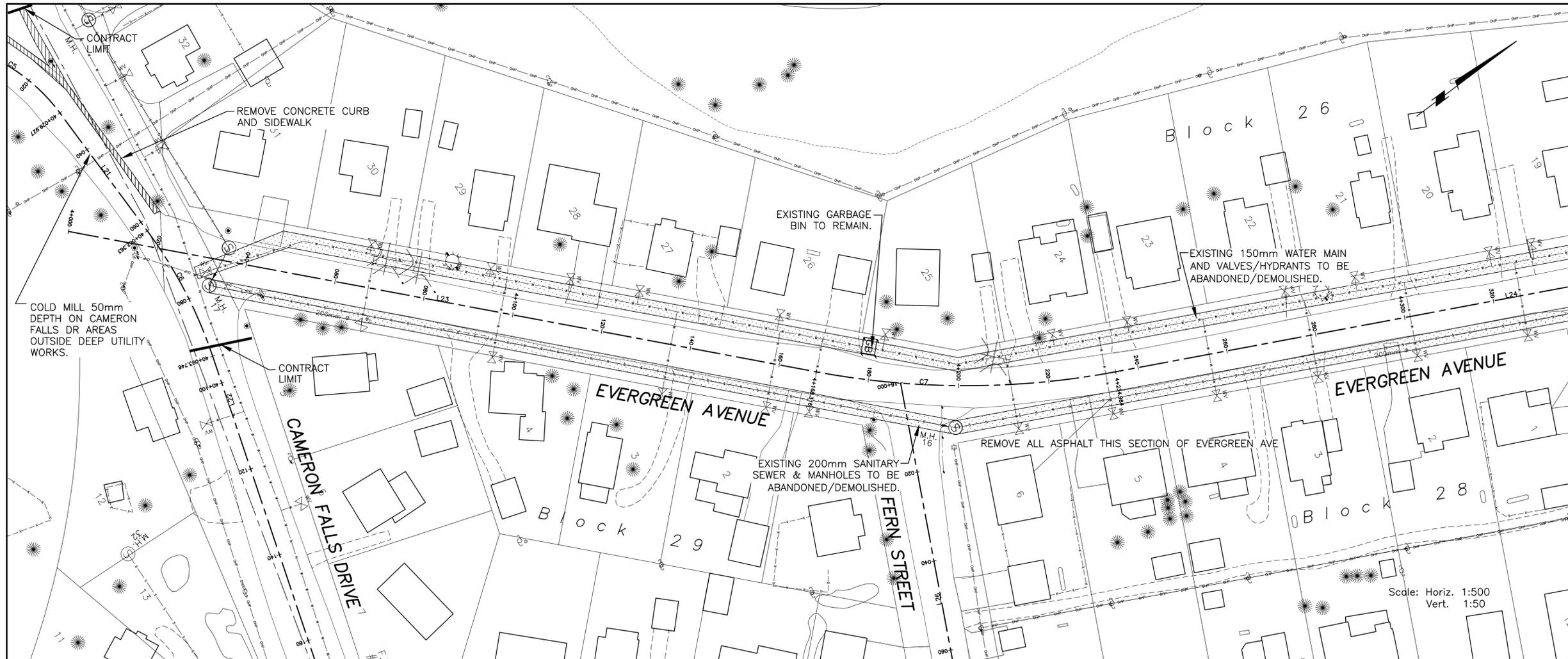
PWSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
J. LAMBE

Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS EVERGREEN AVENUE NORTH

PLAN PROFILE
Sta. 4+000 to 4+300

Project No./No. du projet R.075721.001	Sheet/Feuille C10 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

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LEGEND

- ABANDON/DEMOLISH EXISTING UTILITY LINES
- REMOVE AND DISPOSE CONCRETE SURFACE

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P. ENG. DATE:

DO NOT SCALE DRAWINGS

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0	50% DESIGN COMPLETION	05/17/15

Revision/	Description/Description	Date/Date
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Client/client

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

Canada

Project title/Titre du projet
**WATERTON TOWNSITE
MUNICIPAL INFRASTRUCTURE
UPGRADES
PHASE A AND B
WATERTON NATIONAL PARK
ALBERTA**

Approved by/Approuvé par

Designed by/Concepté par
B. ZACHER

Drawn by/Dessiné par
B. JOHNSON

PWGSC Project Manager/Administrateur de Projets TPSGC
M. BURKE

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
J. LAMBE

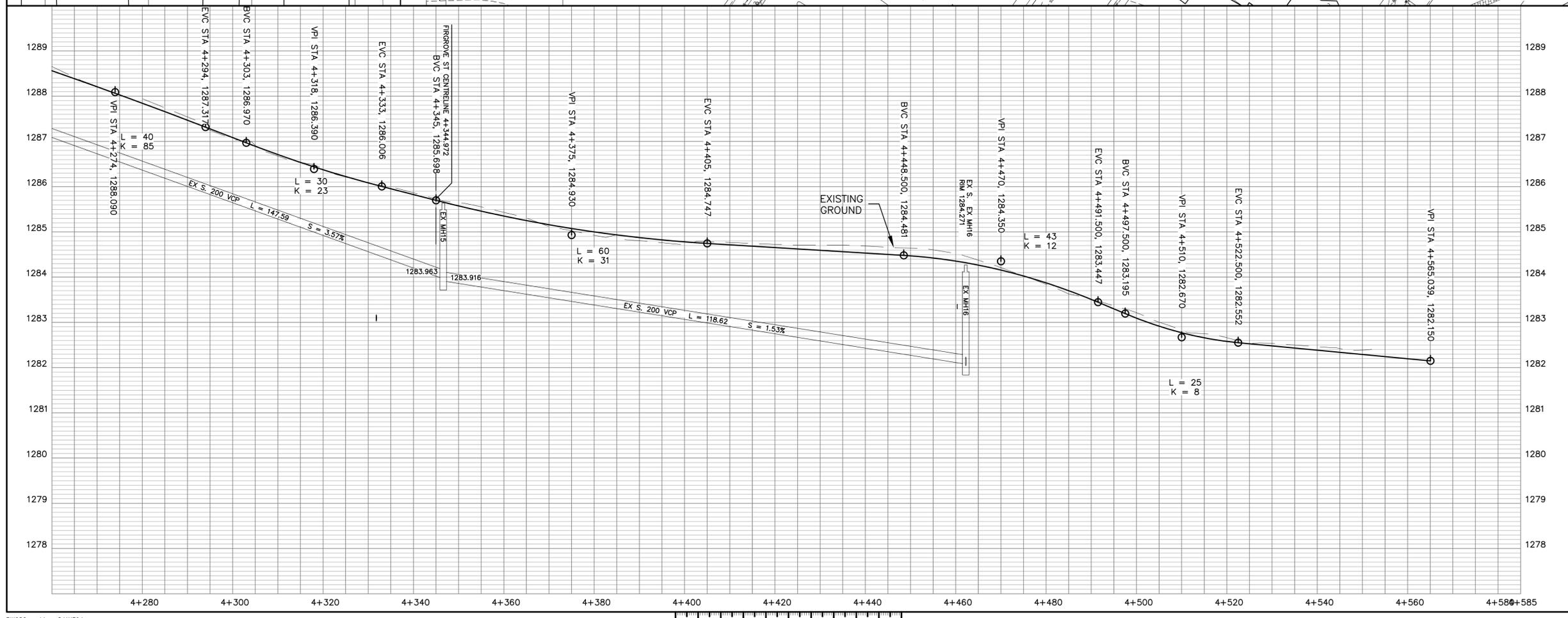
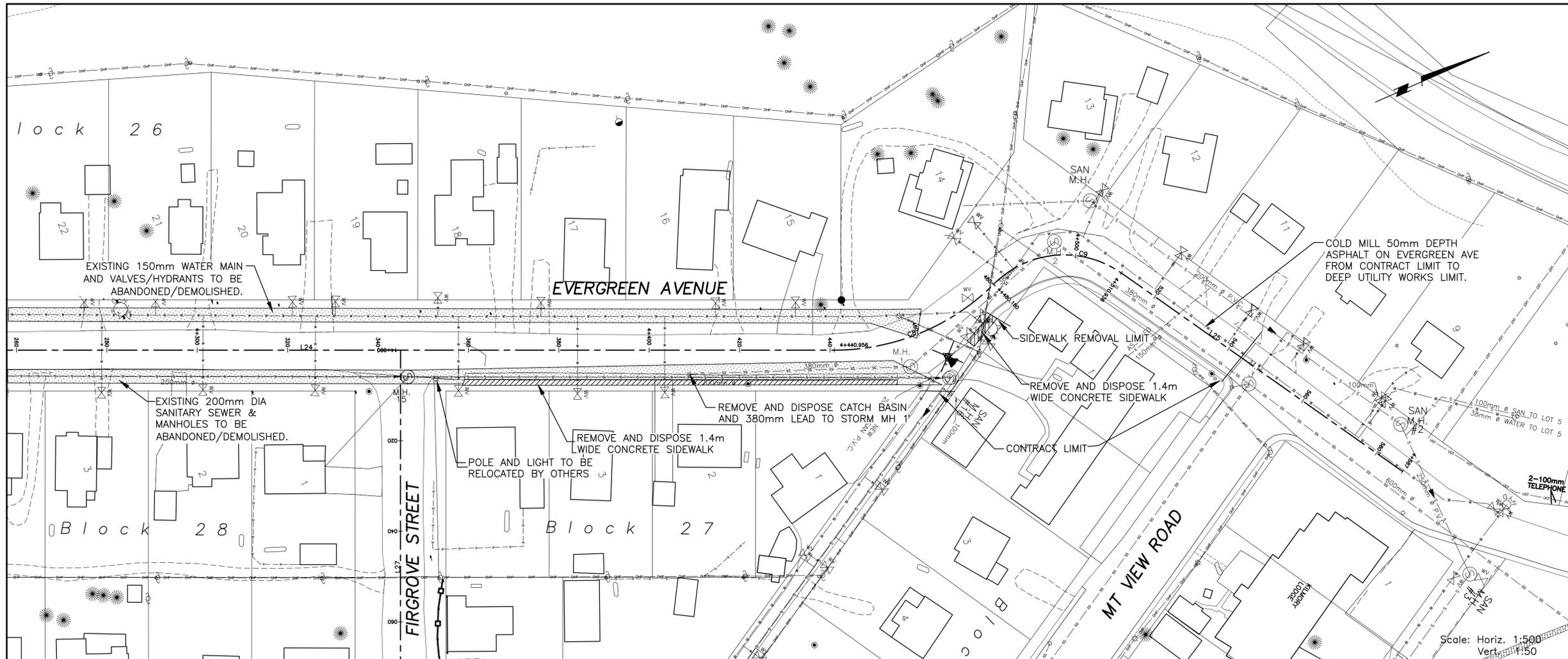
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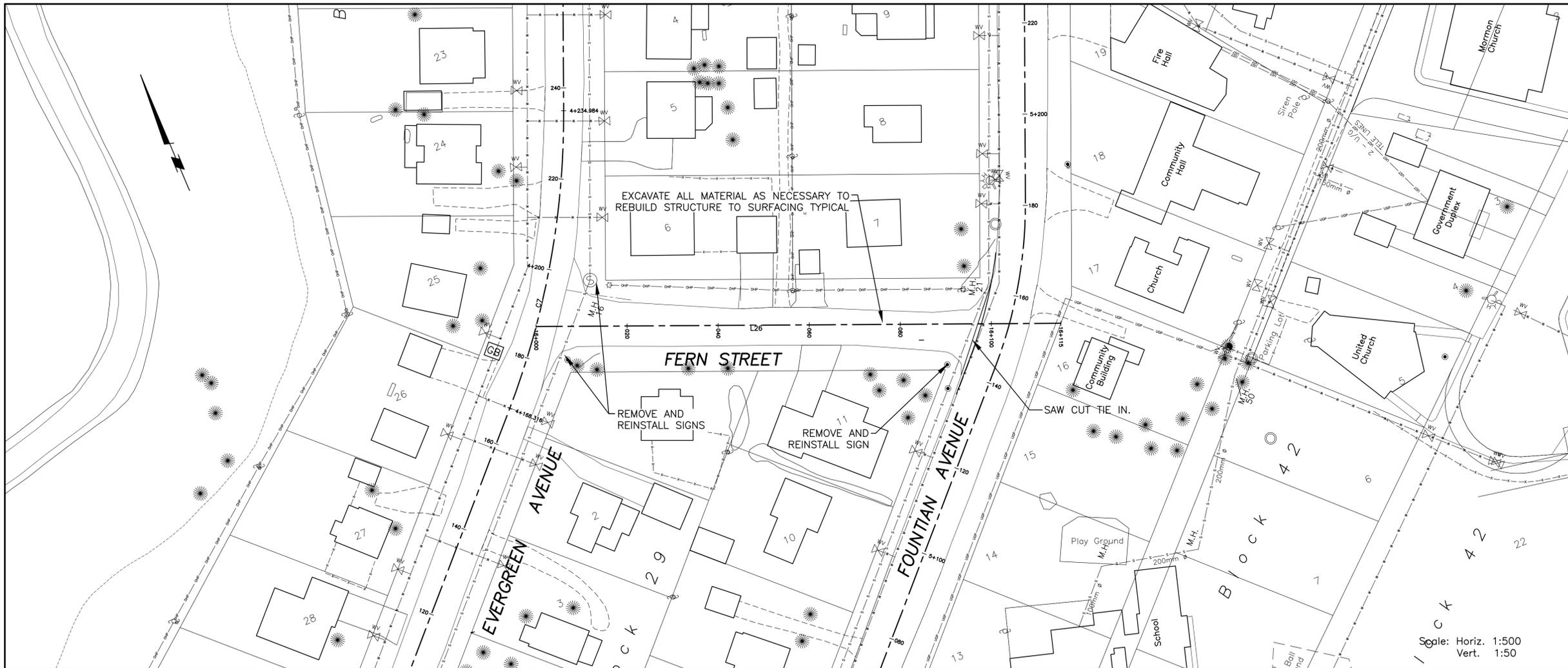
**REMOVALS & ADJUSTMENTS
EVERGREEN AVENUE
NORTH
PLAN PROFILE
Sta. 4+300 to Sta. 4+600**

Project No./No. du projet
R.075721.001

Sheet/Feuille
C11
OF 41

Revision no./
La Révision no.
3





PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

LEGEND
 ABANDON/DEMOLISH EXISTING UTILITY LINES



Consultant's Name
Nom de l'expert-conseil
Amec Foster Wheeler
 Environment & Infrastructure
 469 - 40th Street South
 Lethbridge, Alberta CANADA T1J 4M1
 Tel. (403) 329-1467
 Fax (403) 327-4938

Eng. Stamp
 Niveau de l'ingénieur

Scale: Horiz. 1:500
Vert. 1:50

DO NOT SCALE DRAWINGS

5		
4		
3	ISSUED FOR TENDER	08/14/18
2	100% DESIGN COMPLETION	07/13/18
1	75% DESIGN COMPLETION	07/01/18
0	50% DESIGN COMPLETION	06/17/18
Revision/	Description/Description	Date/Date

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

Canada

Project title/Titre du projet
WATERTON TOWNSITE MUNICIPAL INFRASTRUCTURE UPGRADES PHASE A AND B
 WATERTON NATIONAL PARK ALBERTA

Approved by/Approuvé par

Designed by/Concept par
 B. ZACHER

Drawn by/Dessiné par
 B. JOHNSON

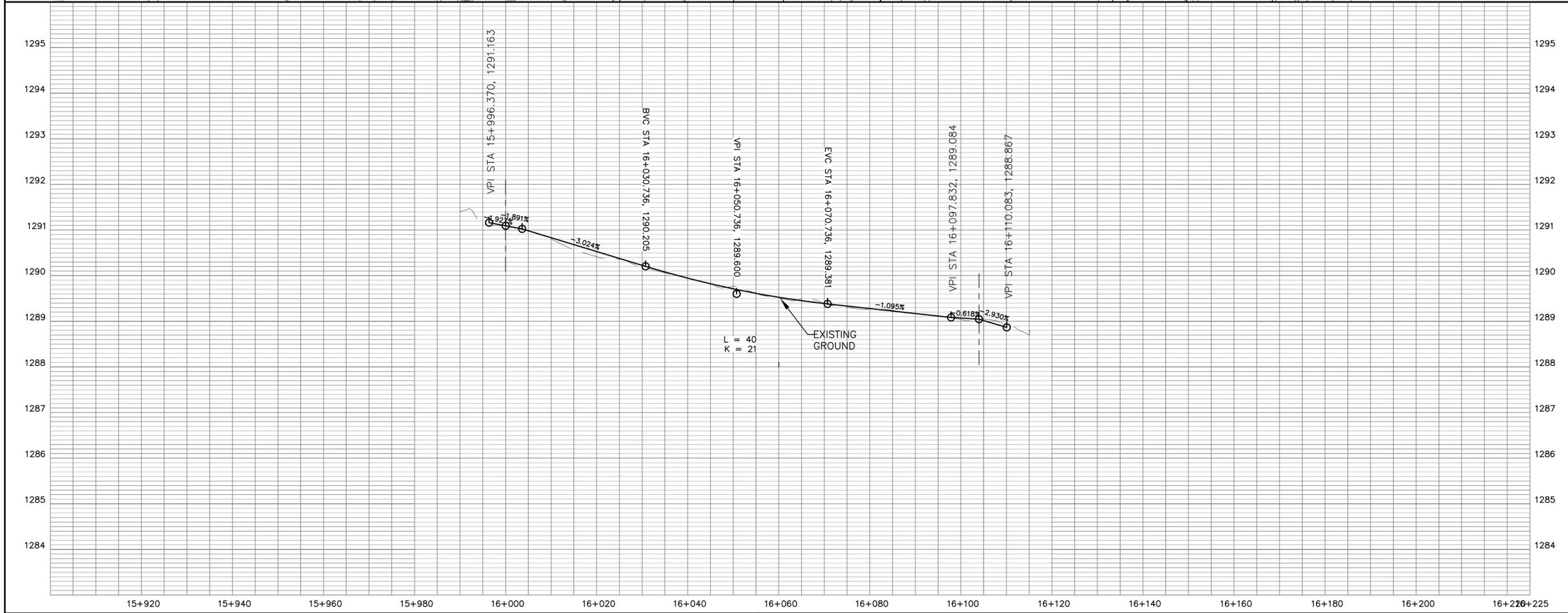
PWSC Project Manager/Administrateur de Projets TPSGC
 M. BURKE

PWSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
 J. LAMBE

Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS FERN STREET PLAN PROFILE
 Sta. 16+000 to Sta. 16+125.38

Project No./No. du projet R.075721.001	Sheet/Feuille C12 OF 41	Revision no./La Révision no. 3
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PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

- LEGEND**
- ABANDON/DEMOLISH EXISTING UTILITY LINES
 - REMOVE AND DISPOSE CONCRETE SURFACE

amec foster wheeler

Consultant's Name
Nom de l'expert-conseil
Amec Foster Wheeler
Environment & Infrastructure
469 - 40th Street South
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B. ZACHER
PROFESSIONAL ENGINEER
ALBERTA
P. ENG. DATE:

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Revision/Revision	Description/Description	Date/Date
5		
4		
3	ISSUED FOR TENDER	06/14/15
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1	75% DESIGN COMPLETION	07/01/15
0	50% DESIGN COMPLETION	05/17/15

Client/client
Parks Canada / L'Agence Parcs Canada
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Client/client
J. LAMBE

Drawing title/Titre du dessin
REMOVALS & ADJUSTMENTS FIRGROVE STREET PLAN PROFILE
Sta. 14+000 to Sta. 14+100

Project No./No. du projet R.075721.001	Sheet/Feuille C13 OF 41	Revision no./La Révision no. 3
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