



Publics Works and
Government Services
Canada

Travaux publics et
services gouvernementaux
Canada

Real Property Services
For Parks Canada

Services immobiliers pour
Parcs Canada

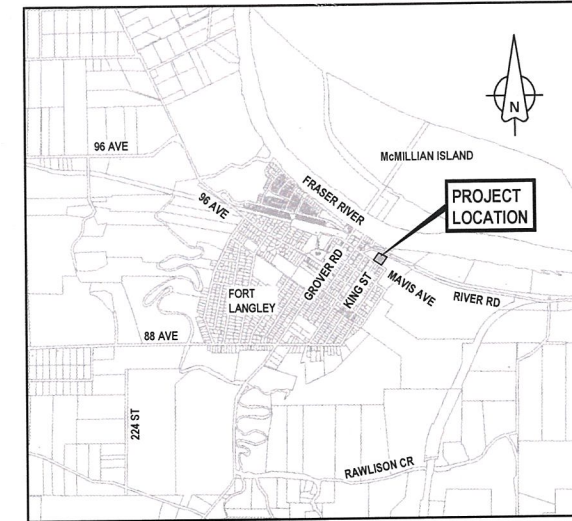
Canada

Client/client



Parks
Canada

Parcs
Canada



KEY PLAN

FORT LANGLEY NATIONAL HISTORIC SITE

VISITOR CENTRE PARKING LOT REPAVING

PROJECT NO. R.078891.001

DRAWING INDEX		
DWG No.	DESCRIPTION	REV
	COVER SHEET & DRAWING INDEX	
SHT 1 OF 3	FORT LANGLEY PARKING LOT - PROPOSED PAVING	D
SHT 2 OF 3	FORT LANGLEY PARKING LOT - PAVEMENT MARKING	C
SHT 3 OF 3	FORT LANGLEY PARKING LOT - ELECTRICAL WORK	C
SHT 1 OF 6	FORT LANGLEY NHS - PROPOSED SANITARY	2
SHT 2 OF 6	FORT LANGLEY NHS - PROPOSED STORM	2
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SHT 4 OF 6	FORT LANGLEY NHS - GRADING PLAN	1
SHT 5 OF 6	FORT LANGLEY NHS - STORM WATER MANAGEMENT PLAN	1
SHT 6 OF 6	FORT LANGLEY NHS - STANDARD DETAILS	1

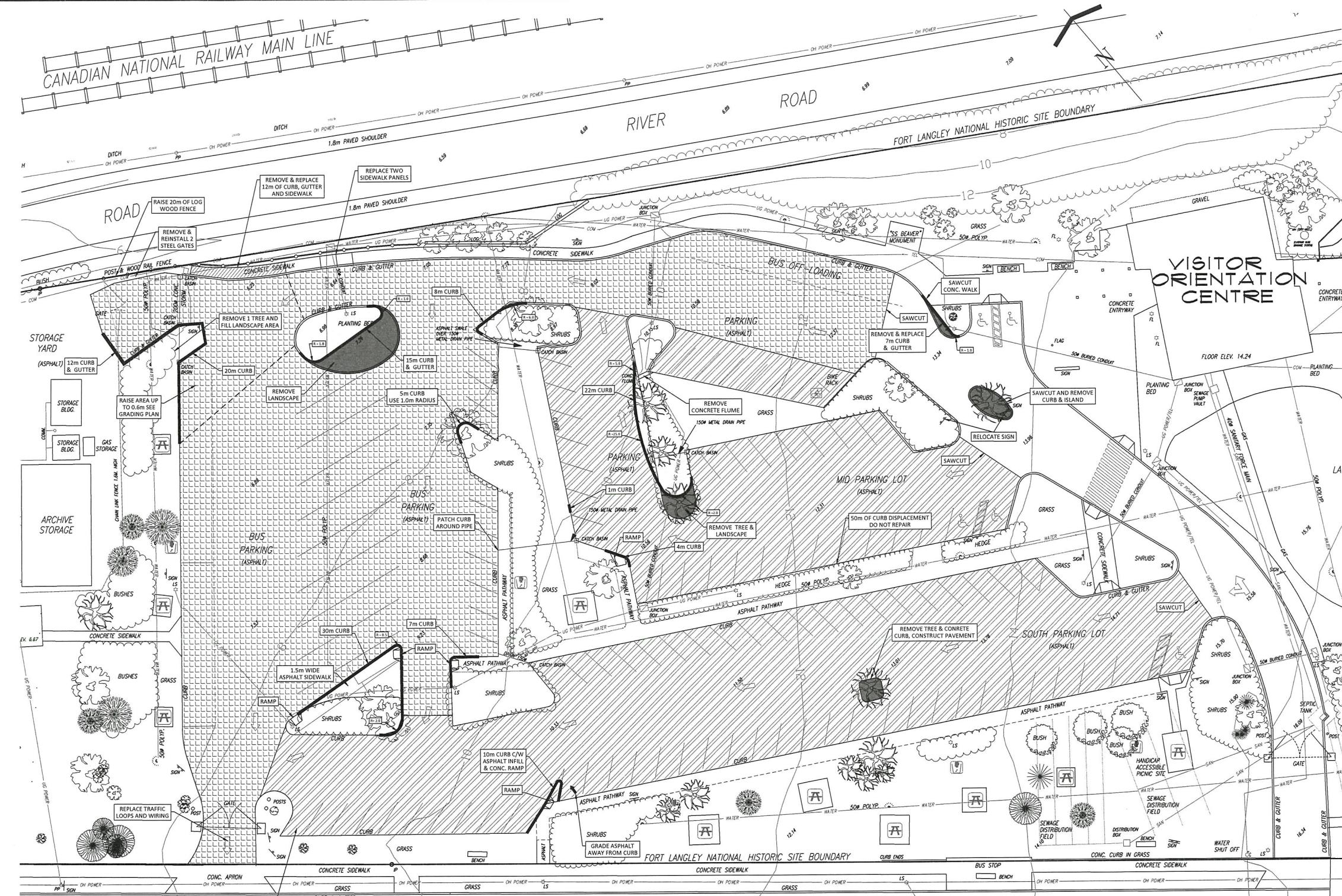


PROJECT 602029
JAN 2017

PARSONS

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BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
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C:\P\602029\PROJ\DWG\2017\01\16\001.DWG PLOTTED ON 2017/01/16 2:25pm BY 4005228

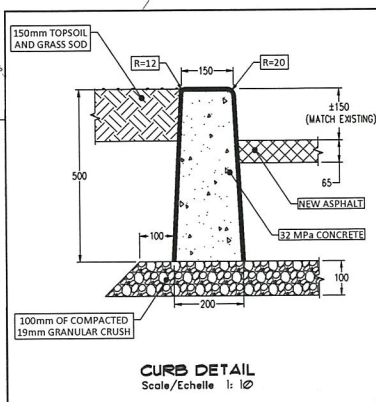


LEGEND

[Pattern]	REMOVE - EXISTING ASPHALT AND 100mm GRAVEL REPLACE - 50mm MMCD UC#1 - 100mm 19mm MMCD GRANULAR BASE
[Pattern]	REMOVE EXISTING ASPHALT AND 400mm GRAVEL REPLACE - 75mm - ASPHALT MMCD UC #1 100mm - 19mm MMCD GRANULAR BASE 300mm - 75mm CRUSHED ROCK SUB-BASE
[Pattern]	EXCAVATE & REPLACE - 75mm - ASPHALT MMCD UC #1 -100mm - 19mm MMCD GRAN. BASE -300mm - 75mm CRUSHED SUB-BASE
[Pattern]	REMOVE & REPLACE 350mm HIGH CONCRETE CURB

NOTES:

1. BASE PLAN FROM 2000 SURVEY
2. PAVEMENT MARKINGS SHOWN ARE EXISTING
3. CURBS ARE CONCRETE, 350mm HIGH WITH 150mm EXPOSED FACE AND 200mm BURIED
4. SET CURB ELEVATIONS TO MATCH EXISTING ASPHALT
5. NEW ASPHALT TO MATCH GRADES OF EXISTING ASPHALT UNLESS NOTED OTHERWISE
6. REFER TO ISL UTILITIES DRAWINGS FOR CURB AND WALK REPLACEMENT TO ACCOMMODATE UTILITY INSTALLATIONS



D	JAN 13 2017	INCORPORATE ISL DESIGN	WL	DC
C	DEC 14 2016	NOTES 4 & 5	WL	DC
B	NOV 30 2016	TENDER READY SUBMISSION	WL	DC
A	FEB 12 2016	60% SUBMISSION	AK	DC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	B
Detail number Sheet number	A Numéro de détail B Numéro de la feuille
Linear dimensions In millimetres	Dimensions linéaires en millimètres

Consultant's Name
Nom de l'expert-consult

PARSONS

Eng. Stamp
Sceau de l'ingénieur

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Travaux publics et Services gouvernementaux Canada

Real Property Services For Parks Canada
Services immobiliers pour Parcs Canada

Canada

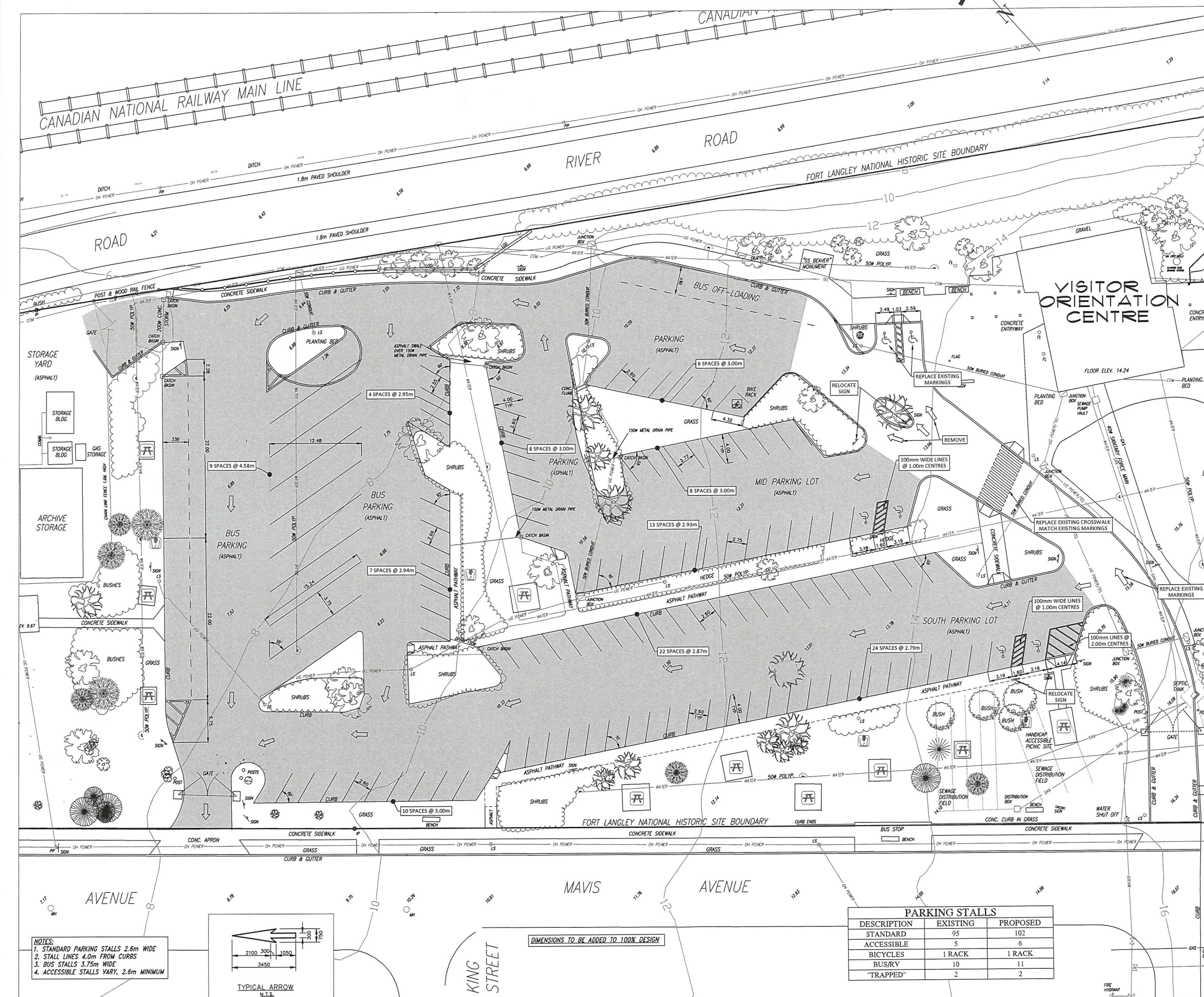
Client/client
Canadian Heritage
Patrimoine Canadien

Parks Canada
Parcs Canada

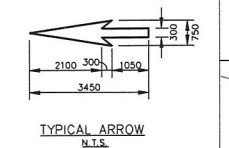
Project title/Titre du projet
FORT LANGLEY NATIONAL HISTORIC SITE
LANGLEY TOWNSHIP, BRITISH COLUMBIA

Drawing title/Titre du dessin
FORT LANGLEY PARKING LOT PROPOSED PAVING

Surveyed by/Arpenté par B. THRALE	Drawn by/Dessiné par AKWIATKOWSKI	Date FEBRUARY, 2016
Designed by/Concept par D. CHALMERS	Reviewed by/Revisé par R. FOXTON	Scale/Echelle 1:250
Client Acceptance/Acceptation du client Approved by/Approuvé par		
Project No./N° du projet R07891001	Asset No./N° du bien ASSET NO.	Sheet No./N° de la feuille SHEET 1 OF 3



- NOTES:
- STANDARD PARKING STALLS 2.6m WIDE
 - STALL LINES 4.0m FROM CURBS
 - BUS STALLS 3.75m WIDE
 - ACCESSIBLE STALLS VARY, 2.6m MINIMUM



DIMENSIONS TO BE ADDED TO 100% DESIGN

PARKING STALLS		
DESCRIPTION	EXISTING	PROPOSED
STANDARD	95	102
ACCESSIBLE	5	6
BICYCLES	1 RACK	1 RACK
BUS/RV	10	11
"TRAPPED"	2	2



C	JAN 13 2017	REPAVING AREA EXTENDED	WL	DC
B	NOV 30 2016	TENDER READY SUBMISSION	WL	DC
A	FEB 12 2016	60% SUBMISSION	AK	DC
No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé

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

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

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

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

Real Property Services For Parks Canada / Services immobiliers pour Parcs Canada

Canada

Client / client: Canadian Heritage / Patrimoine Canadien

Parks Canada / Parcs Canada

Project title / Titre du projet: **FORT LANGLEY NATIONAL HISTORIC SITE**

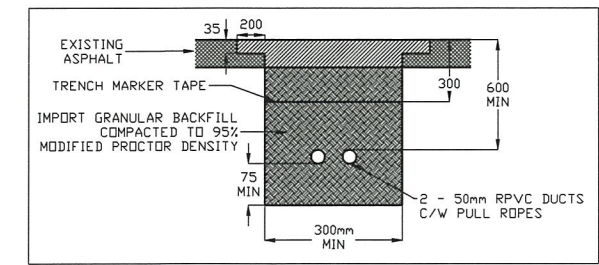
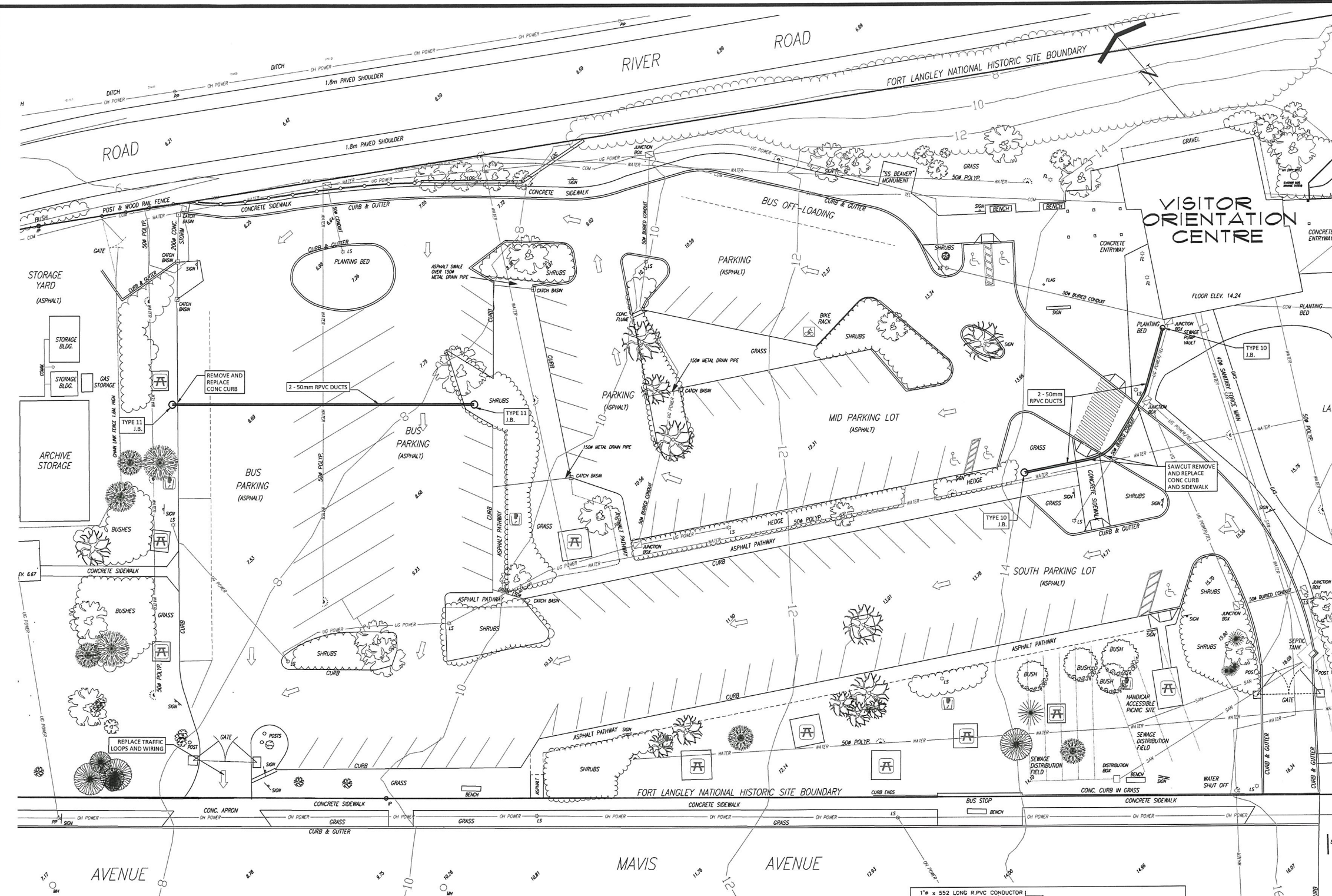
LANGLEY TOWNSHIP, BRITISH COLUMBIA

Drawing title / Titre du dessin: **FORT LANGLEY PARKING LOT PAVEMENT MARKING**

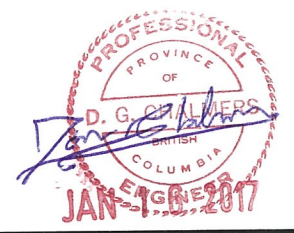
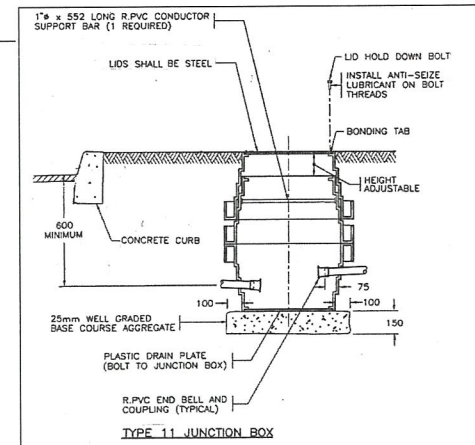
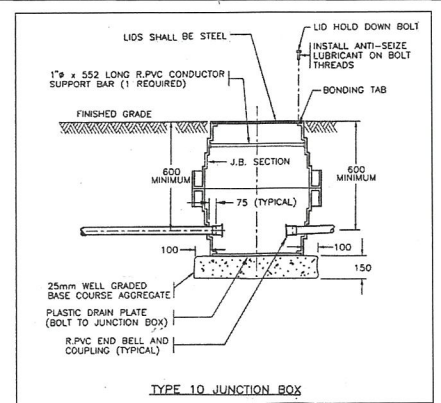
Surveyed by / Arpenté par: B. THRALE	Drawn by / Dessiné par: A. KWATKOWSKI	Date: FEBRUARY, 2016
Designed by / Concept par: D. CHALMERS	Reviewed by / Révisé par: R. FOXTON	Scale / Echelle: 1:250

Client Acceptance / Acceptation du client: Approved / Approuvé par	
Project No. / N° du projet: R07001001	Asset No. / N° de bien: ASSET NO.
Drawing Reference No. / N° de référence du dessin: SHEET 2 OF 3	

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NOTES:
 1. ALL ELECTRICAL WORK TO BE DONE BY LICENSED ELECTRICAL CONTRACTOR



C	DEC 14 2016	JUNCTION BOXES ADDED	WL	DC
B	NOV 30 2016	TENDER READY SUBMISSION	WL	DC
A	FEB 12 2016	60% SUBMISSION	AK	DC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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

Consultant's Name
Nom de l'expert-conseil

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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

Canada

Client/client
Canadian Heritage
Patrimoine Canadien

Parks Canada
Parcs Canada

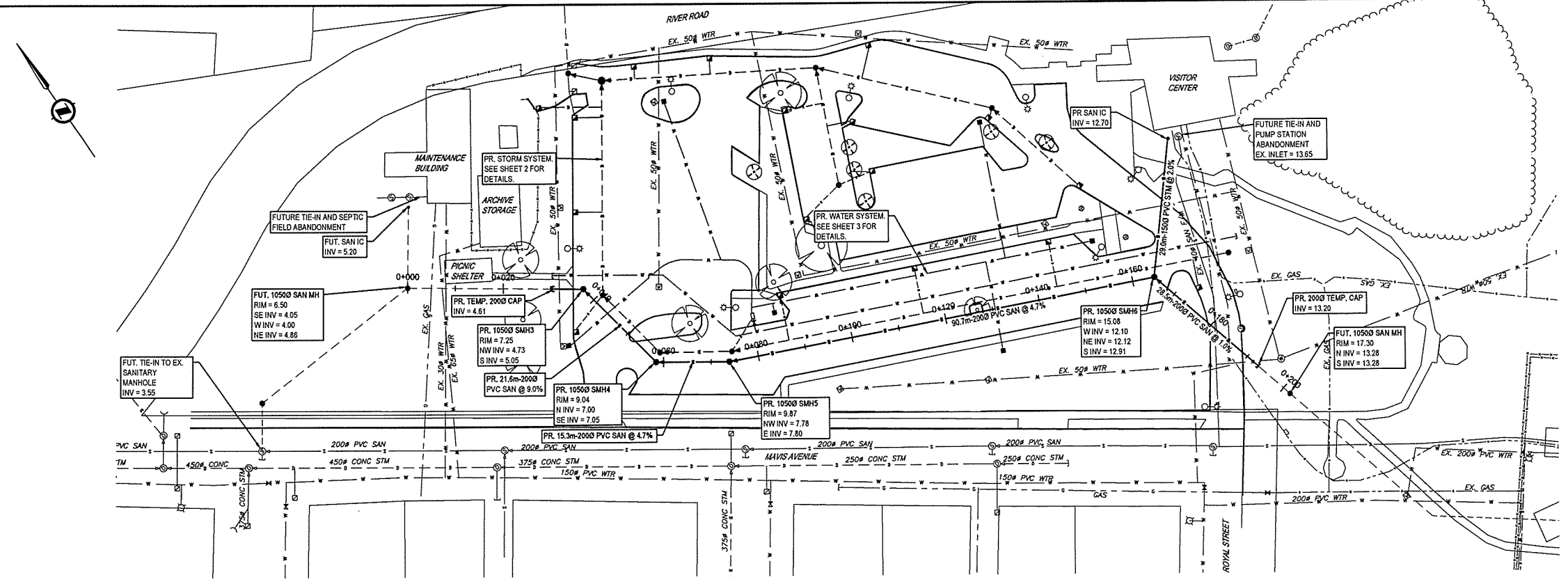
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FORT LANGLEY NATIONAL HISTORIC SITE
 LANGLEY TOWNSHIP, BRITISH COLUMBIA

Drawing title/Titre du dessin
FORT LANGLEY PARKING LOT ELECTRICAL WORK

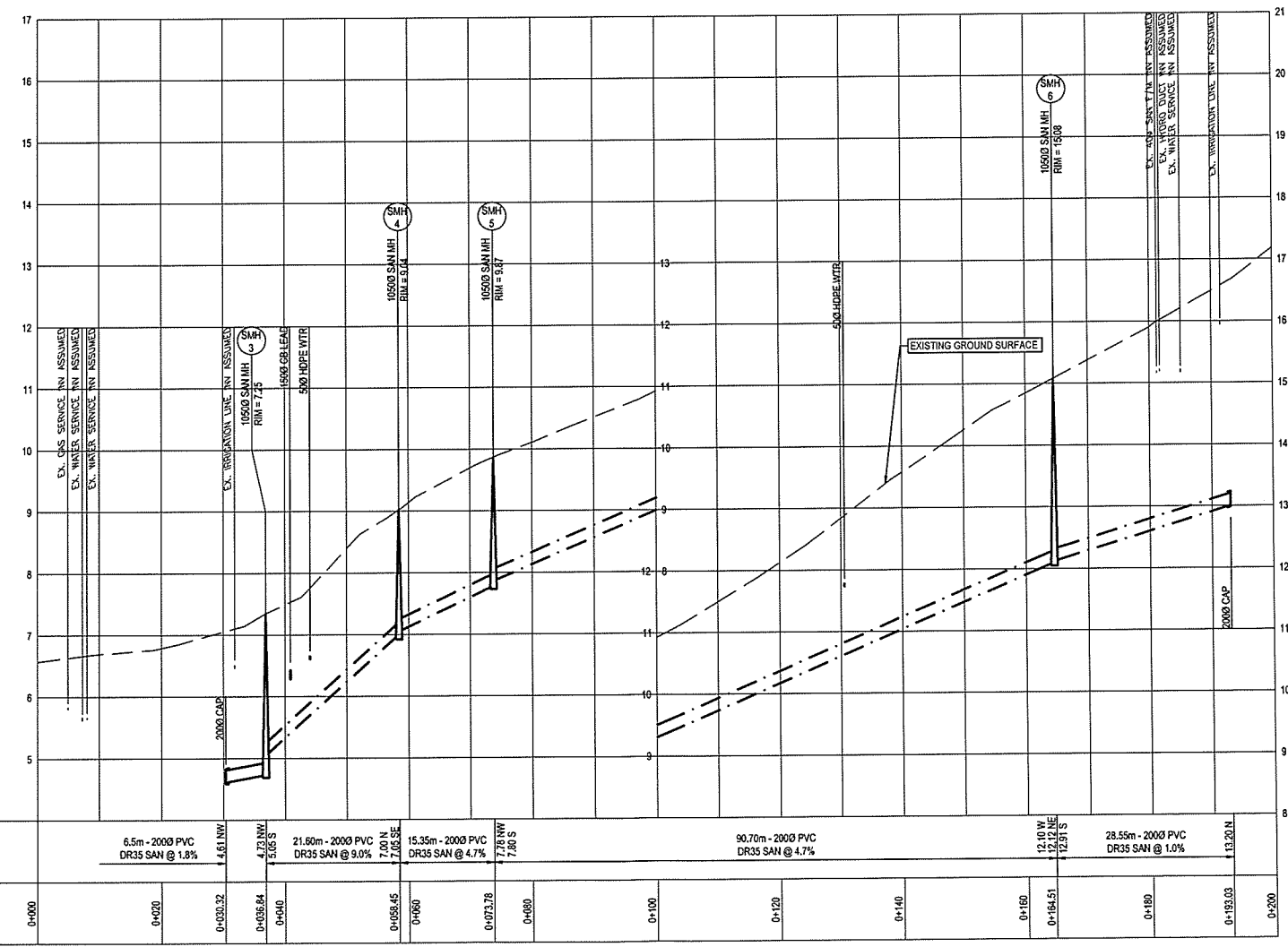
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Designed by/Concept par D. CHALMERS	Reviewed by/Revisé par R. FOXTON	Scale/Echelle 1:250

Client Acceptance/Acceptation du client Approved by/Approuvé par		
PARK RESPONSIBLE OFFICER/AGENT RESPONSABLE Date	A & E SERVICES/GÉNIE ET ARCHITECTURE Date	
Project No./N° du projet R07891001	Asset No./N° du bien ASSET NO.	Sheet No./N° de la feuille SHEET 3 OF 3

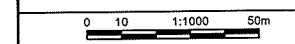
ENVY-00009 PAGE 304 003-2016/FORT LANGLEY NATIONAL HISTORIC SITE ELECTRICAL.DWG PLOTTED BY R06/12/14 4:17PM



NOTE:
 1. CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE ENGINEERING OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.



SANITARY DATA	CHAINAGE
6.5m - 2000 PVC DR35 SAN @ 1.8%	0+000
4.61 NW 4.73 NW 4.73 NW 7.00 N 7.05 SE 7.05 SE	0+020 0+030.32 0+036.64 0+040 0+058.45 0+060
21.80m - 2000 PVC DR35 SAN @ 9.0%	0+073.78
15.35m - 2000 PVC DR35 SAN @ 4.7%	0+080
90.70m - 2000 PVC DR35 SAN @ 4.7%	0+120 0+140
12.10 W 12.25 SE 12.25 SE	0+160 0+164.51
28.55m - 2000 PVC DR35 SAN @ 1.0%	0+180
13.20 N	0+193.03
	0+200



Revision/Description	Description/Description	Date/Date
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4		
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2		
1	ISSUED FOR TENDER	2017/01/16
0	CONCEPTUAL DESIGN	2016/12/16

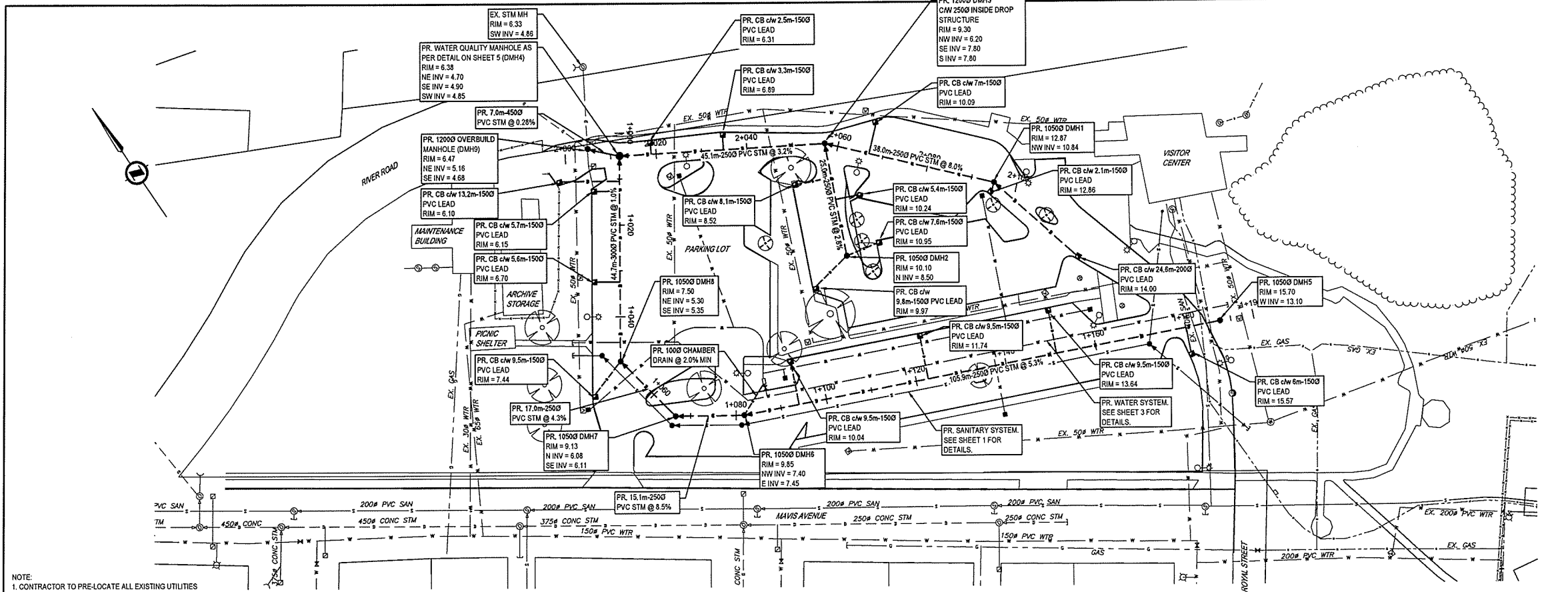
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

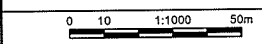
Consultant Signature Only
 S. VERKAIK
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSC Project Manager/Administrateur de Projets TPSC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régional, Services d'architecture et de génie, TPSC
 TOM DUNPHY

Drawing title/Titre du dessin
FORT LANGLEY PARKING LOT PROPOSED SANITARY

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.078891.001	1	2



NOTE:
1. CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE ENGINEERING OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.



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1	ISSUED FOR TENDER	2017/01/16
0	CONCEPTUAL DESIGN	2016/12/16
Revision/Description	Description/Description	Date/Date

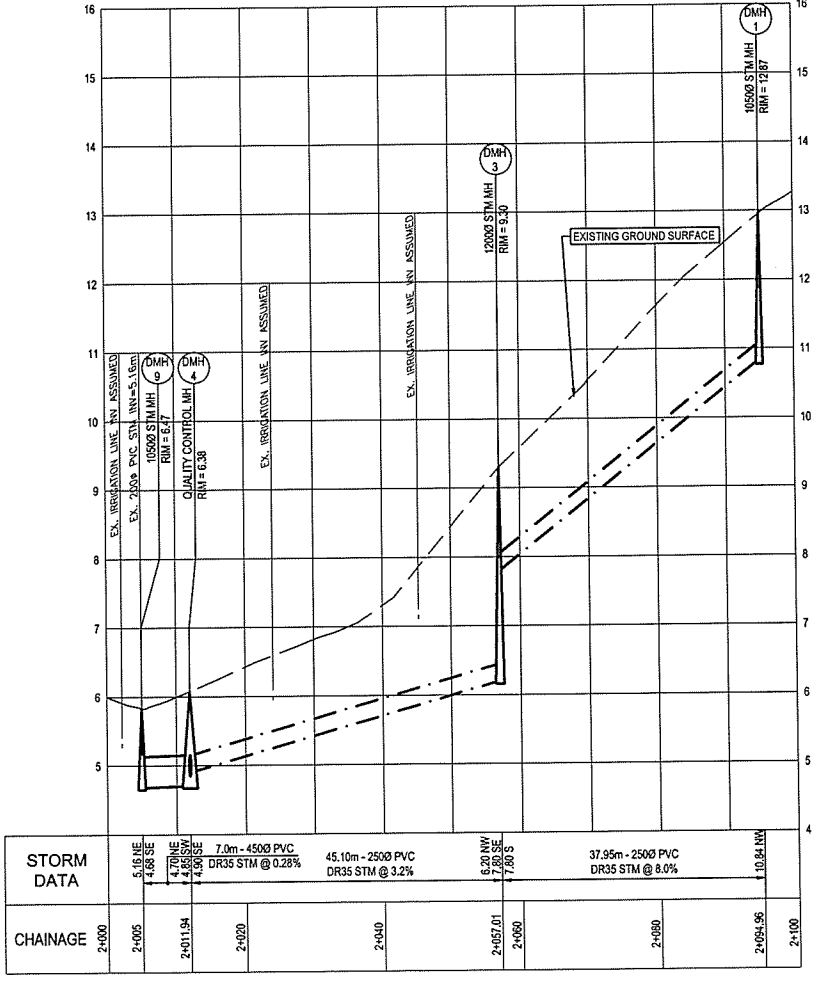
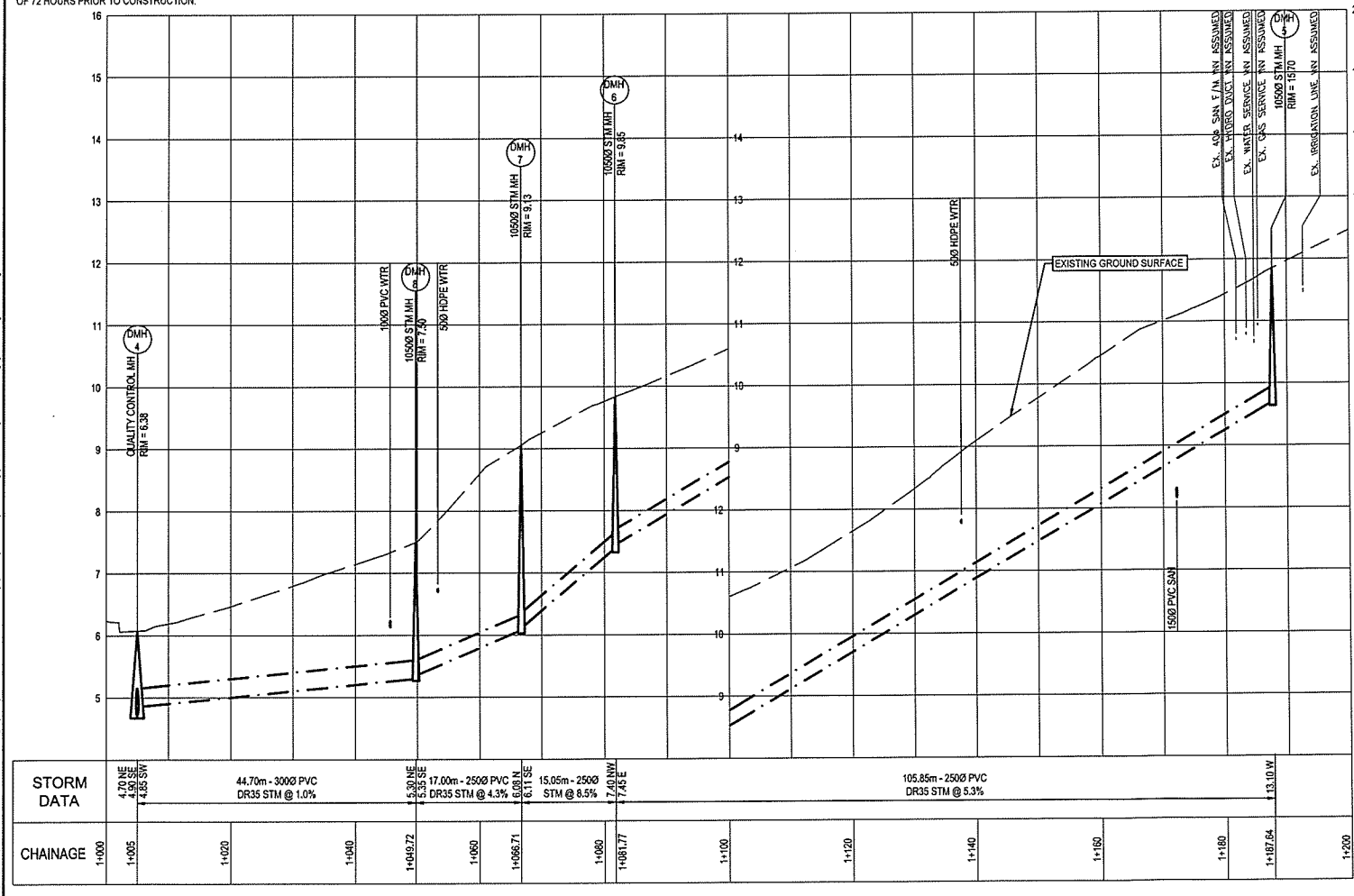
Client/Client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
219 - 800 BARRARD STREET
VANCOUVER, BC, V6Z 0B9

Project Title/Titre du projet
FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

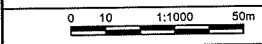
Consultant Signature Only
S. VERKAJK
Designed by/Concept par
S. CLARK
Drawn by/Dessiné par
S. CLARK
PWSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
TOM DUNPHY

Drawing Title/Titre du dessin
FORT LANGLEY PARKING LOT PROPOSED STORM

Project No./No. du projet R.078891.001	Sheet/Feuille 2	Revision no./La Révision 2
	OF 6	



PWSC - A1 - 841594



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1	ISSUED FOR TENDER	2013/02/16
0	CONCEPTUAL DESIGN	2012/12/16
Revision/	Description/Description	Date/Date
Client/client		

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

219 - 800 BURRARD STREET
VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet

FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
S. VERKAIK

Designed by/Concept par
S. CLARK

Drawn by/Dessiné par
S. CLARK

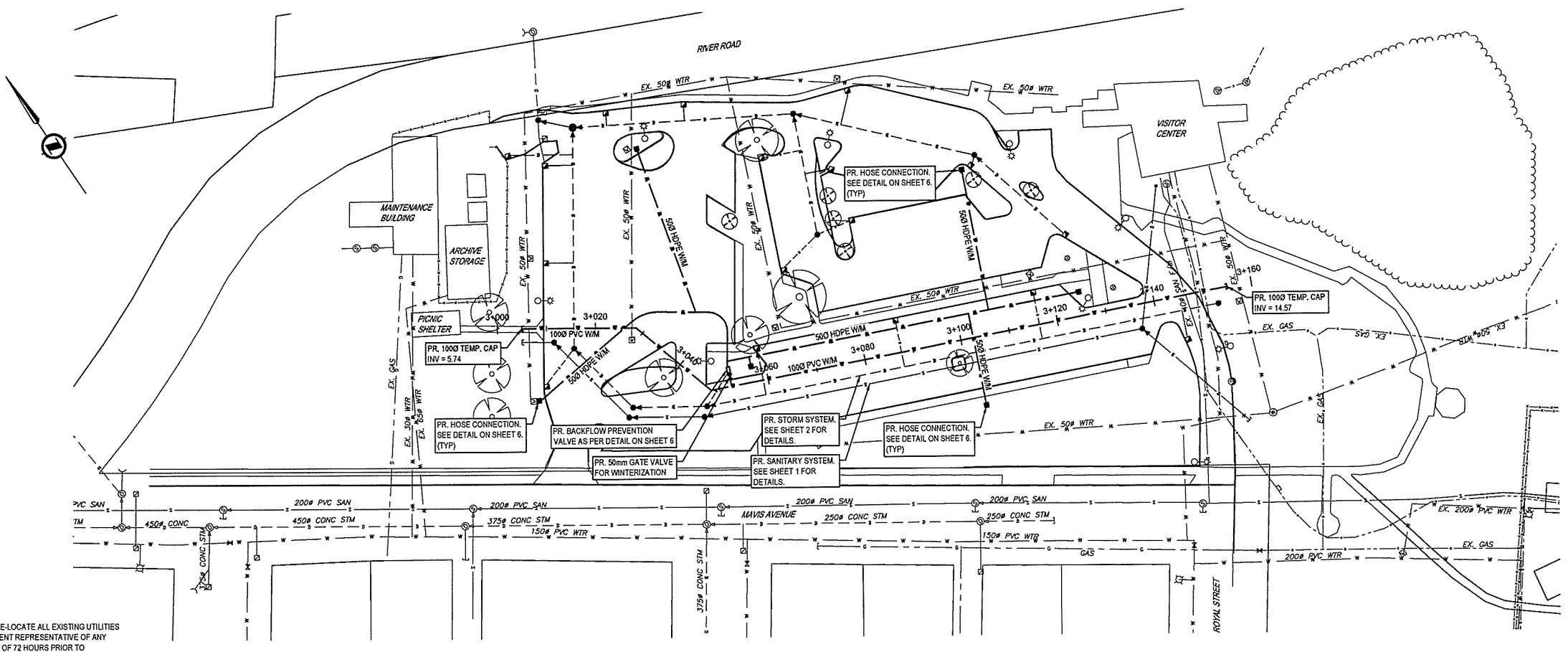
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
TOM DUNPHY

Drawing title/Titre du dessin

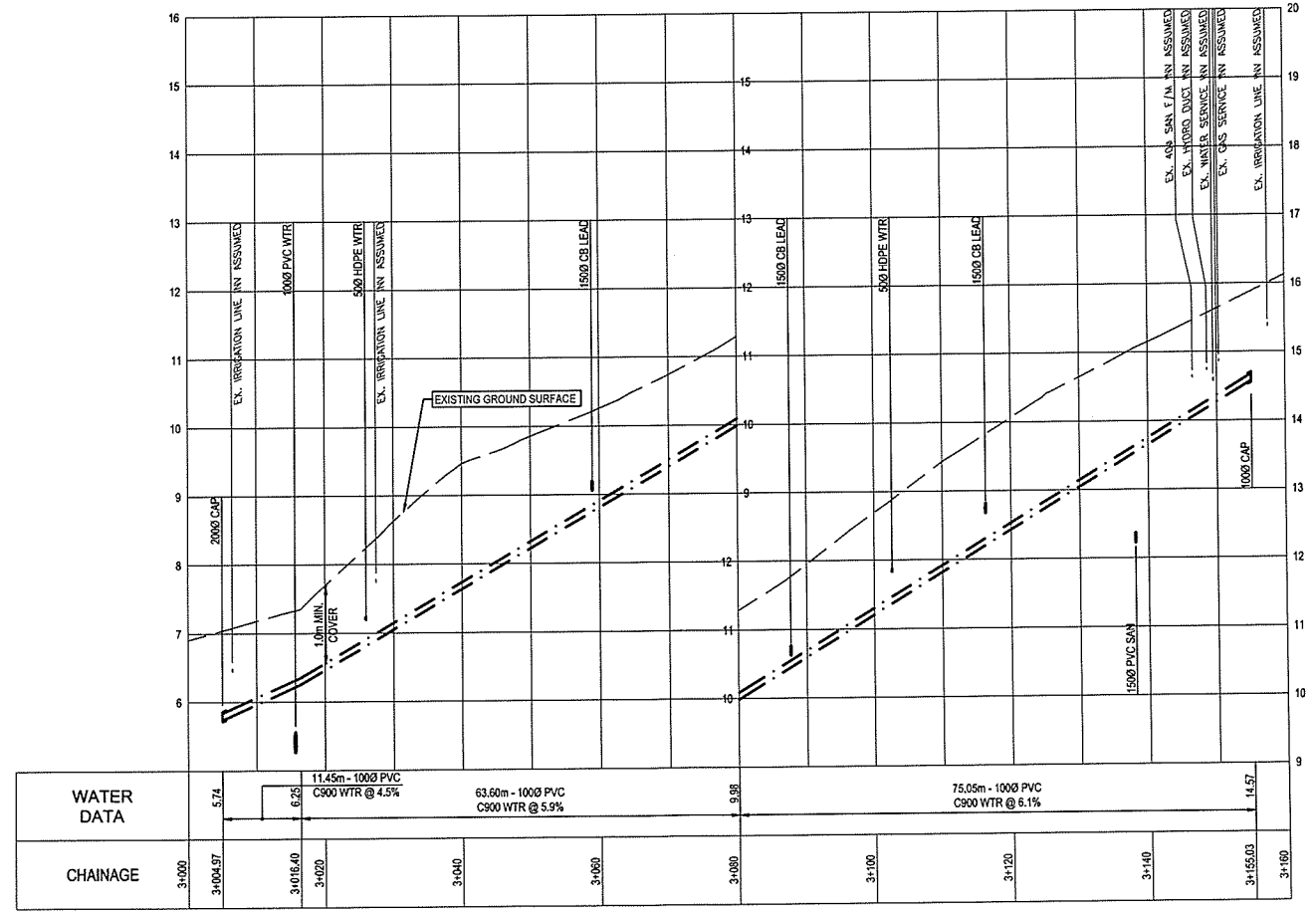
FORT LANGLEY PARKING LOT PROPOSED WATER

Project No./No. du projet R.078891.001	Sheet/Feuille 3 OF 6	Revision no./La Révision no. 2
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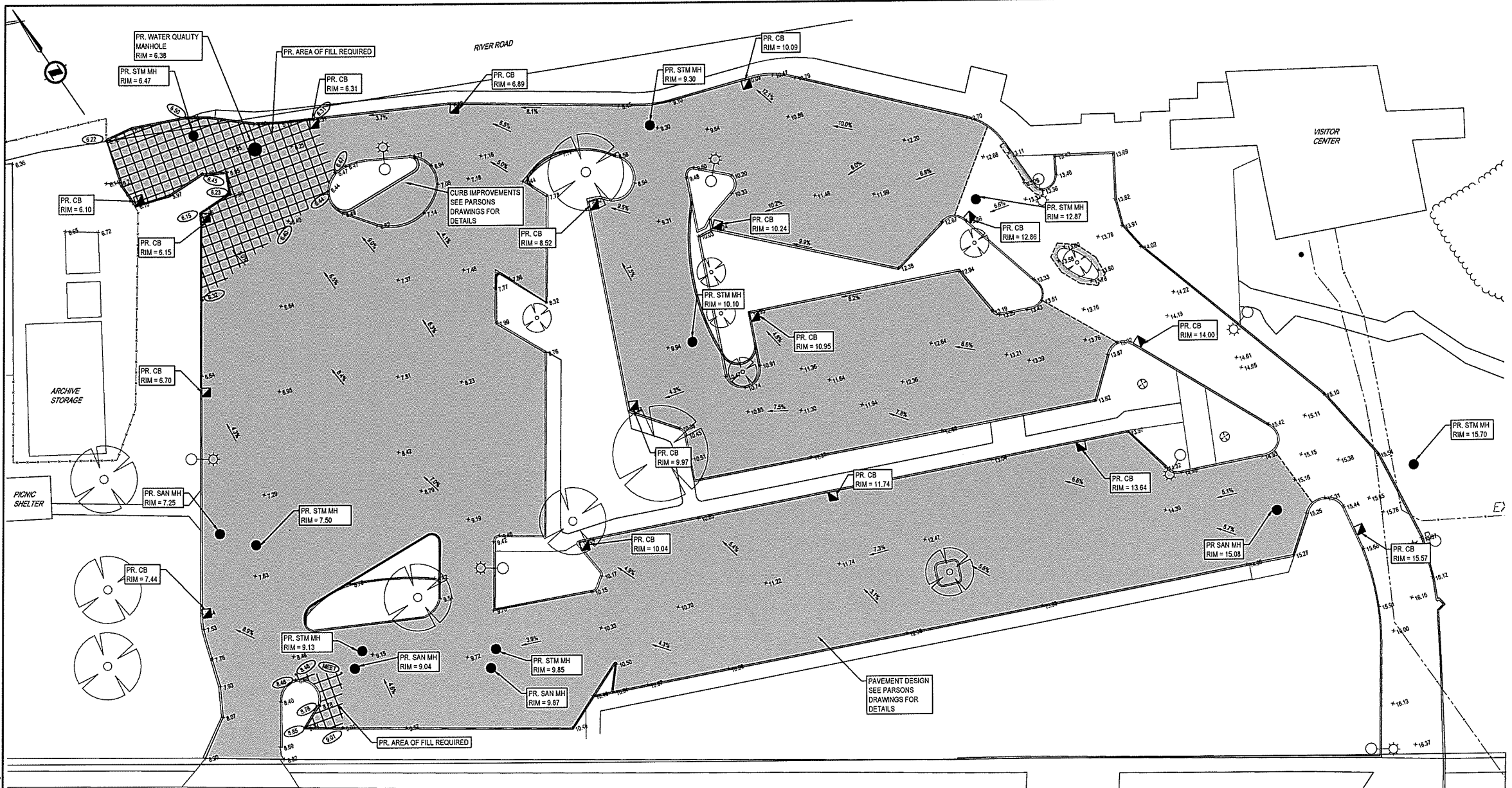
NOTES:

- CONTRACTOR TO PRE-LOCATE ALL EXISTING UTILITIES AND ADVISE DEPARTMENT REPRESENTATIVE OF ANY CONFLICTS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
- EXISTING WATER SYSTEM TO BE MAINTAINED AND PROTECTED.
- CONTRACTOR TO COMMISSION, INCLUDING PRESSURE TESTING, FLUSHING, CHLORINATING, AND 2 SETS OF WATER SAMPLES. FUTURE WATER SYSTEM TIE-INS BY OTHERS.



2017/Jan/16, 2:23pm PWGSC - A1 - 841X594





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ISSUED FOR TENDER	2017/01/16
Revision/Description	Date/Date
Client/Client	

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

Project title/Titre du projet
FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
 S. VERKAIK
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gérant régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY
 Drawing title/Titre du dessin

FORT LANGLEY GRADING PLAN

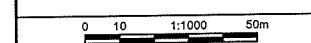
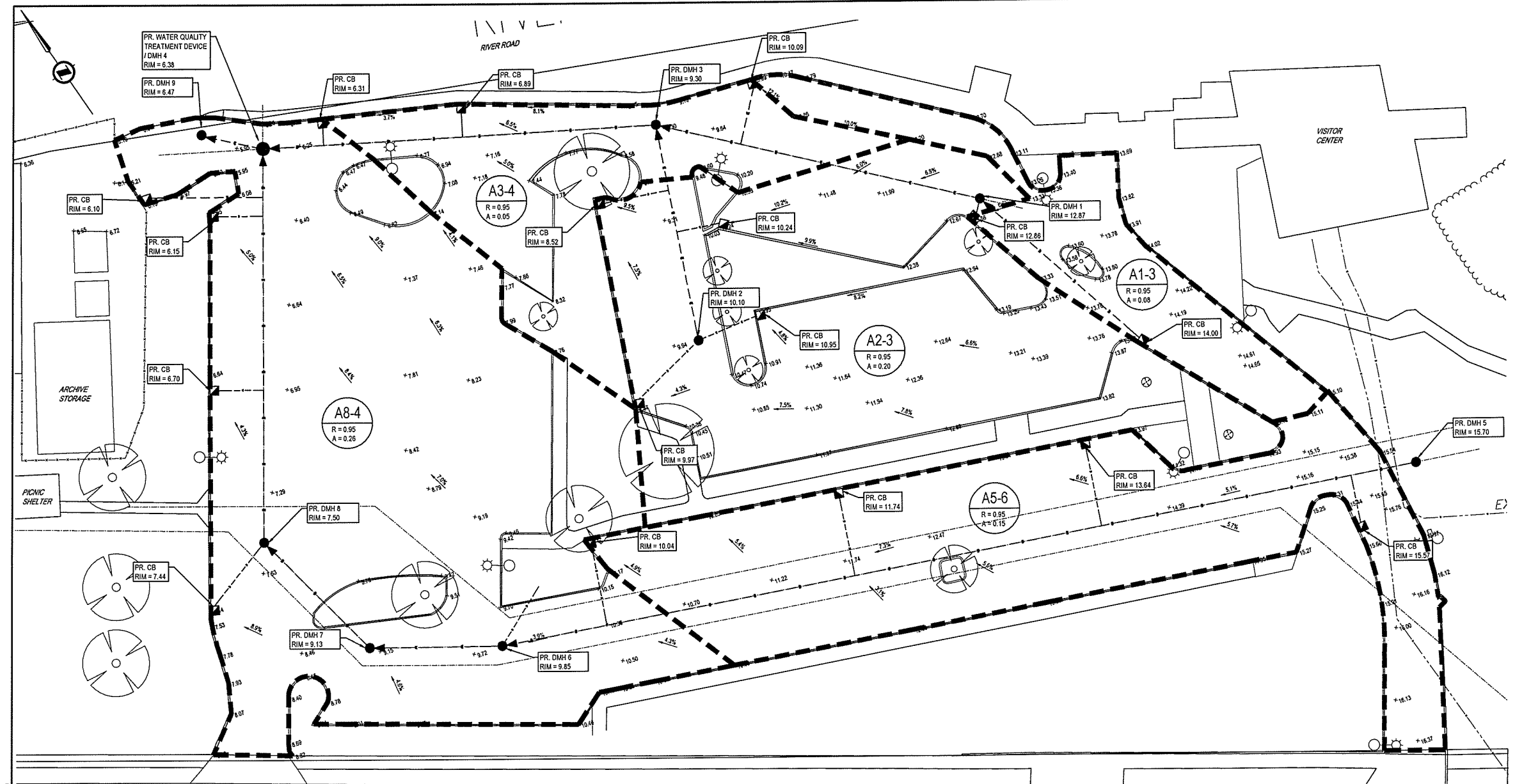
Project No./No. de projet	Sheet/Feuille	Revision no./La révision no.
R.078891.001	4 OF 6	1

LEGEND

- PAVEMENT RESURFACING BY OTHERS
- FILL REQUIRED
- PROPOSED ELEVATION
- EXISTING ELEVATION
- PROPOSED MANHOLE
- PROPOSED CATCHBASIN

2017/01/16 2:21pm 08/02/17 H:\Projects\171583 - Fort Langley NHS\02_CAD\03_Drawing\031_Sheet\171583-FortLangley-PR-GradingPlan.dwg





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Revisions/	Issued for Tender	2017/01/16
Revisions/	Description/Description	Date/Date

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
 219 - 800 BARRARD STREET
 VANCOUVER, BC, V6Z 0B9

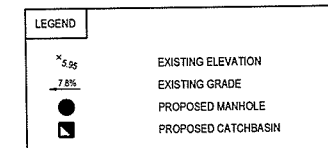
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FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

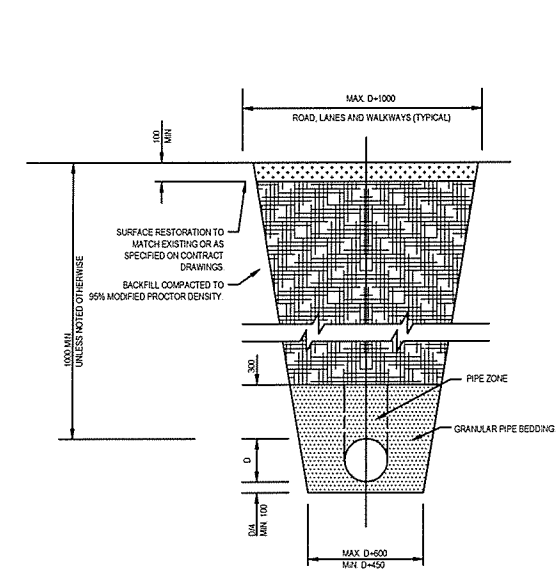
Consultant Signature Only
 S. VERKAIK
 Designed by/Concept par
 S. CLARK
 Drawn by/Dessiné par
 S. CLARK
 PWSC Project Manager/Administrateur de Projets TPSGC
 TOM DUNPHY
 Regional Manager, Architectural and Engineering Services
 Gérant régional, Services d'architecture et de génie, TPSGC
 TOM DUNPHY
 Drawing title/Titre du dessin

FORT LANGLEY STORM WATER MANAGEMENT PLAN

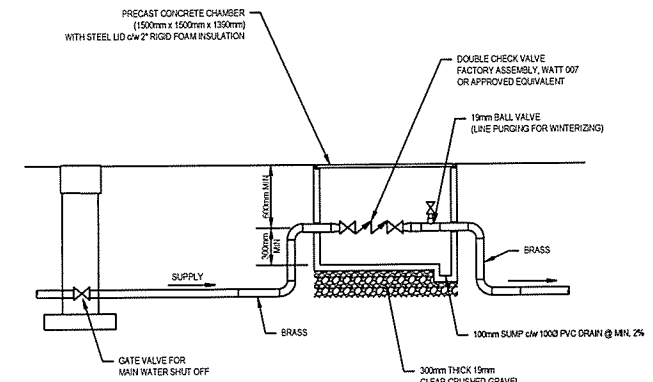
Project No./No. du projet R.078891.001	Sheet/Feuille 5 OF 6	Revision no./La révision no. 1
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PIPELINE PARAMETERS		RATIONAL METHOD														REMARKS		
PIPE LINE FROM	TO	LENGTH (m)	SLOPE %	DIA Calc. (mm)	DIA Existing (mm)	DIA Constr. (mm)	n	V (m/s)	Tf (min)	AREA INC (ha)	SUM (ha)	Tc (min)	I (mm/hr)	INCR A x R	SUM		R	Qest. (cms)
DMH 1	DMH 3	38.0	8.00	96	0	250	0.013	3.43	0.18	0.08	0.08	5.0	59.0	0.08	0.08	0.95	0.013	0.168
DMH 2	DMH 3	25.0	2.80	162	0	250	0.013	2.03	0.21	0.20	0.20	5.2	58.9	0.19	0.19	0.95	0.031	0.100
DMH 3	DMH 4	45.1	3.20	188	0	250	0.013	2.17	0.35	0.05	0.33	5.5	57.3	0.31	0.31	0.95	0.050	0.106
DMH 5	DMH 8	105.9	5.30	127	0	250	0.013	2.79	0.63	0.15	0.15	5.8	56.8	0.14	0.14	0.95	0.022	0.137
DMH 6	DMH 7	15.1	8.50	118	0	250	0.013	3.53	0.07	0.00	0.15	5.7	56.5	0.14	0.14	0.95	0.022	0.173
DMH 7	DMH 8	17.0	4.30	131	0	250	0.013	2.51	0.11	0.00	0.15	5.8	56.0	0.14	0.14	0.95	0.022	0.123
DMH 8	DMH 4	44.7	1.00	248	0	300	0.013	1.37	0.54	0.28	0.41	6.4	53.7	0.39	0.39	0.95	0.058	0.097
DMH 4	DMH 9	7.0	0.25	406	0	450	0.013	0.90	0.13	0.00	0.74	5.9	55.4	0.71	0.71	0.95	0.109	0.143



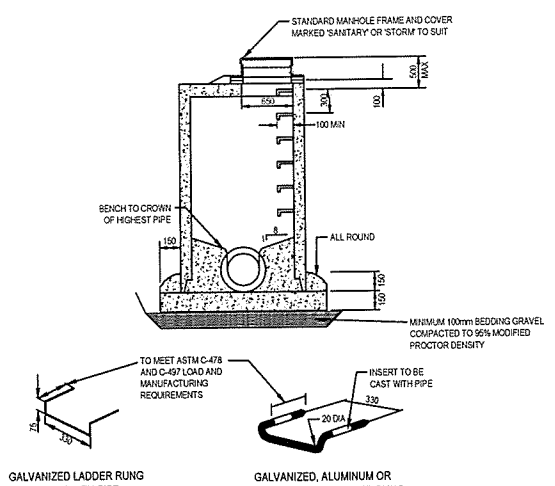


NOTE: 1. COMPLY WITH ALL REQUIREMENTS OF THE WORK SAFE BC
UTILITY TRENCH DETAIL
SCALE: NTS



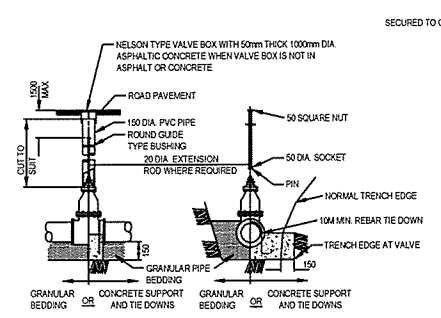
NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS IN ADVANCE OF CONSTRUCTION FOR APPROVAL BY DEPARTMENT REPRESENTATIVE

DOUBLE CHECK VALVE ASSEMBLIES
(50mm OR GREATER)
SCALE: NTS

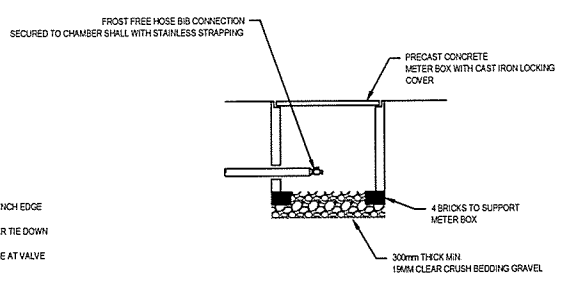


STANDARD MANHOLE DETAIL NOTES:
1. DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY DEPARTMENT REPRESENTATIVE ARE ACCEPTABLE.
2. MAXIMUM DEPTH TO FIRST RING IS 500mm. WHEN HAND HOLD IS INSTALLED BETWEEN TOP AND FIRST RING, MAXIMUM DEPTH MAY BE INCREASED TO 650mm.
3. FOR MANHOLES OVER 1200mm DIA. BASE THICKNESS TO BE 200mm.
4. REFER TO STANDARD MANHOLE CONNECTION DETAILS.
5. REFER TO CONTRACT DOCUMENTS FOR DETAILED SPECIFICATIONS.

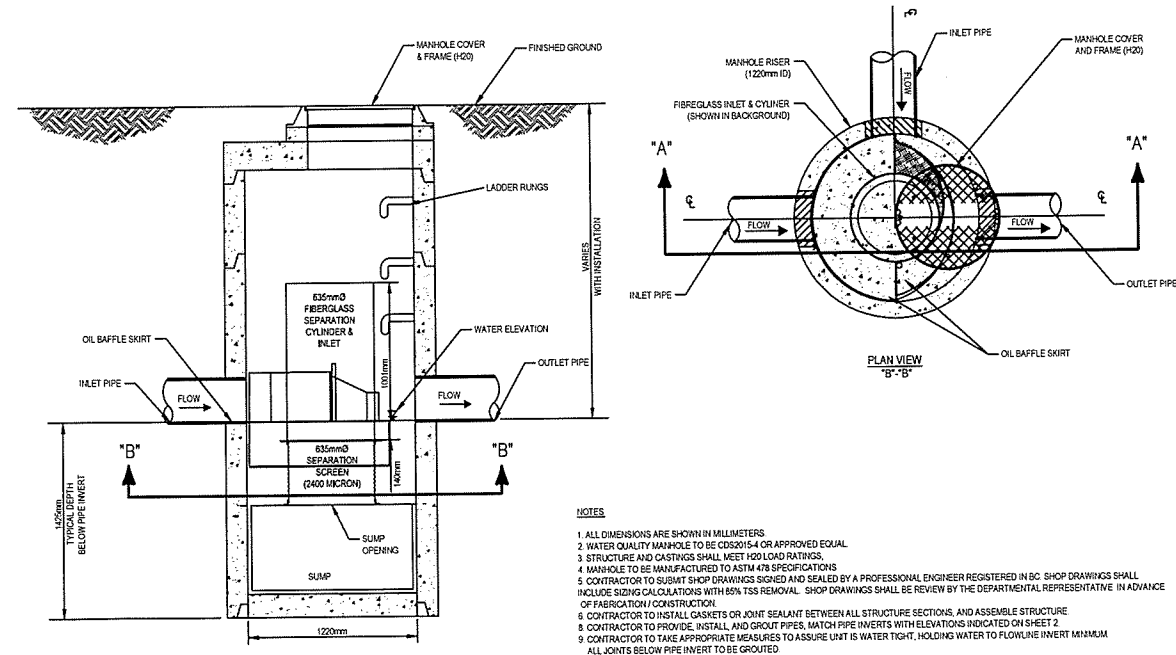
STANDARD MANHOLE DETAIL
SCALE: NTS



GATE VALVE INSTALLATION DETAIL
SCALE: NTS



HOSE CONNECTION DETAIL
SCALE: NTS



NOTES:
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS.
2. WATER QUALITY MANHOLE TO BE CDS2015.4 OR APPROVED EQUAL.
3. STRUCTURE AND CASTINGS SHALL MEET HD0 LOAD RATINGS.
4. MANHOLE TO BE MANUFACTURED TO ASTM 478 SPECIFICATIONS.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN BC. SHOP DRAWINGS SHALL INCLUDE SIZING CALCULATIONS WITH 85% TSS REMOVAL. SHOP DRAWINGS SHALL BE REVIEWED BY THE DEPARTMENTAL REPRESENTATIVE IN ADVANCE OF FABRICATION/CONSTRUCTION.
6. CONTRACTOR TO INSTALL GASKETS OR JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
7. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS INDICATED ON SHEET 2.
8. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM.
9. ALL JOINTS BELOW PIPE INVERT TO BE GROUTED.

WATER QUALITY MANHOLE DETAIL
SCALE: NTS



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Revision/Description/Date/Client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
219 - 800 BARRARD STREET
VANCOUVER, BC, V6Z 0B9

Project Title/Titre du projet

FORT LANGLEY NHS EXISTING UTILITY REHABILITATION

Consultant Signature Only
S. VERKAIK

Designed by/Concept par
S. CLARK

Drawn by/Dessiné par
S. CLARK

Project Manager/Administrateur de Projets
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC
TOM DUNPHY

Drawing Title/Titre du dessin

STANDARD DETAILS

Project No./No. du projet R.078891.001	Sheet/Feuille 6 OF 6	Revision no./La Révision no. 1
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2017/rev 1/6, 2/26/16, 3/25/16, 4/20/16, 5/20/16, 6/20/16, 7/20/16, 8/20/16, 9/20/16, 10/20/16, 11/20/16, 12/20/16, 1/20/17, 2/20/17, 3/20/17, 4/20/17, 5/20/17, 6/20/17, 7/20/17, 8/20/17, 9/20/17, 10/20/17, 11/20/17, 12/20/17, 1/20/18, 2/20/18, 3/20/18, 4/20/18, 5/20/18, 6/20/18, 7/20/18, 8/20/18, 9/20/18, 10/20/18, 11/20/18, 12/20/18, 1/20/19, 2/20/19, 3/20/19, 4/20/19, 5/20/19, 6/20/19, 7/20/19, 8/20/19, 9/20/19, 10/20/19, 11/20/19, 12/20/19, 1/20/20, 2/20/20, 3/20/20, 4/20/20, 5/20/20, 6/20/20, 7/20/20, 8/20/20, 9/20/20, 10/20/20, 11/20/20, 12/20/20, 1/20/21, 2/20/21, 3/20/21, 4/20/21, 5/20/21, 6/20/21, 7/20/21, 8/20/21, 9/20/21, 10/20/21, 11/20/21, 12/20/21, 1/20/22, 2/20/22, 3/20/22, 4/20/22, 5/20/22, 6/20/22, 7/20/22, 8/20/22, 9/20/22, 10/20/22, 11/20/22, 12/20/22, 1/20/23, 2/20/23, 3/20/23, 4/20/23, 5/20/23, 6/20/23, 7/20/23, 8/20/23, 9/20/23, 10/20/23, 11/20/23, 12/20/23, 1/20/24, 2/20/24, 3/20/24, 4/20/24, 5/20/24, 6/20/24, 7/20/24, 8/20/24, 9/20/24, 10/20/24, 11/20/24, 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