

Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

## REAL PROPERTY SERVICES

Western Region

## SERVICES IMMOBILIERS

Région de l'ouest

# NEW DRIVER TRAINING TRACK

## 4X4 COURSE

### Track #4

## Regina Saskatchewan





PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Herlihy Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, SK Reg. No. 20899, Signature: [Signature]

2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/	Description/Description	Date/Date
-----------	-------------------------	-----------

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

NEW DRIVER TRAINING TRACK  
4X4 COURSE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

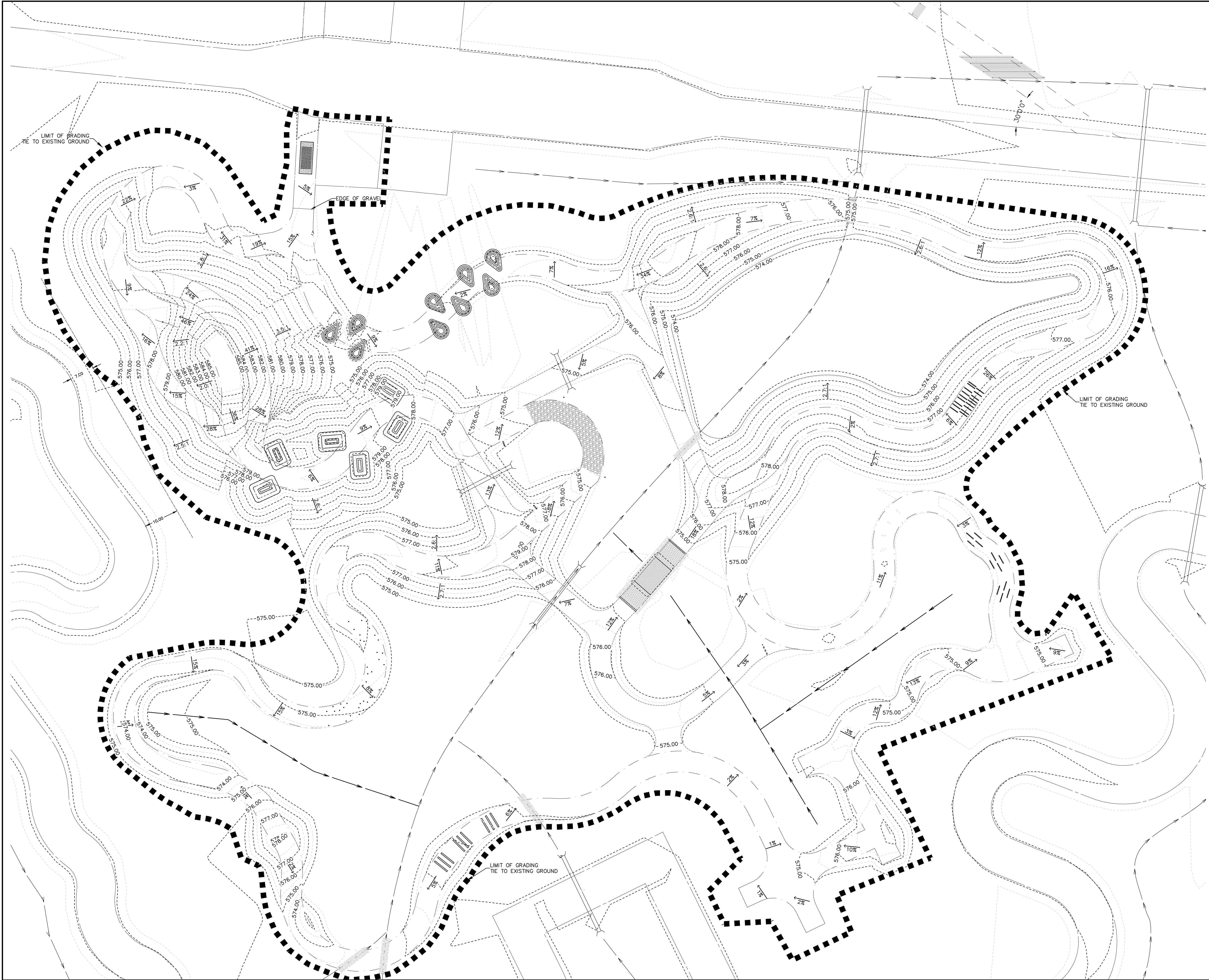
Drawing title/Titre du dessin  
TRACK ALIGNMENT

Project No./No. du projet 3104102	Sheet/Feuille ALGN-01 02 OF 29	Revision no./La Révision no. 2.0
--------------------------------------	--------------------------------------	-------------------------------------









LEGEND

0.50m CONTOUR - MAJOR  
0.50m CONTOUR - MINOR



Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Heritage Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL  
SK Reg. No.: 20899  
Signature: [Signature]

1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08
2	ISSUED FOR TENDER	2016-09-09
Revision/	Description/Description	Date/Date
Revision		

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

NEW DRIVER TRAINING TRACK  
4X4 COURSE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

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

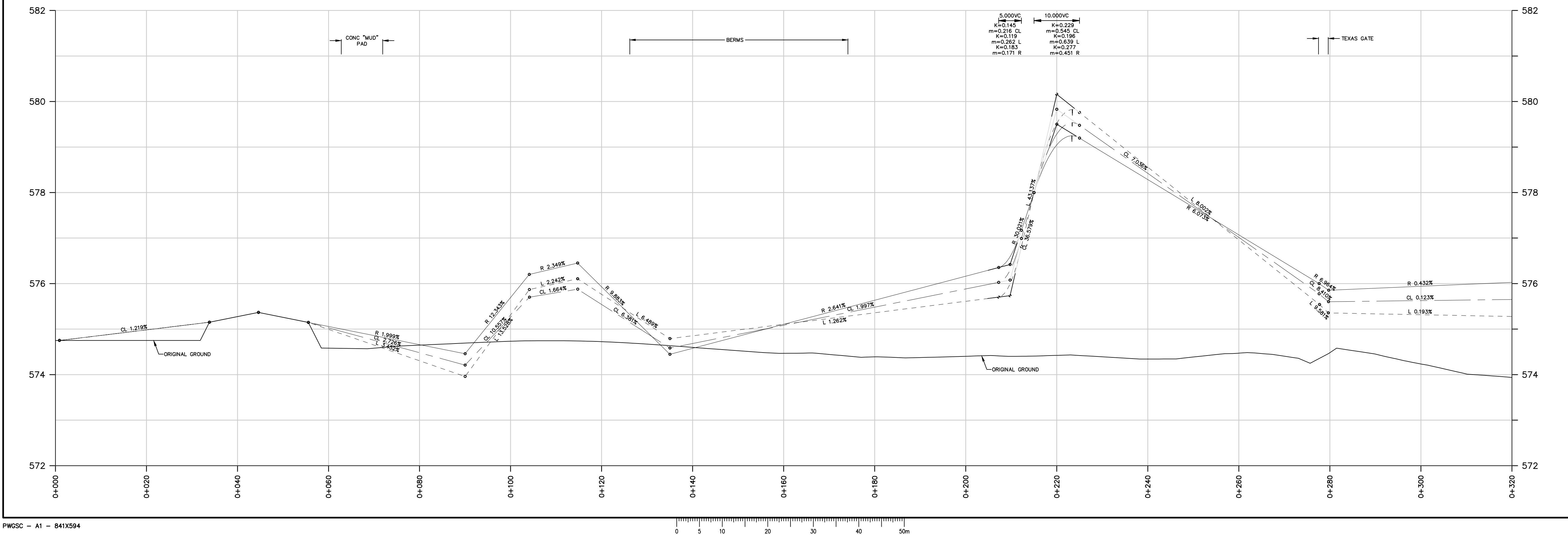
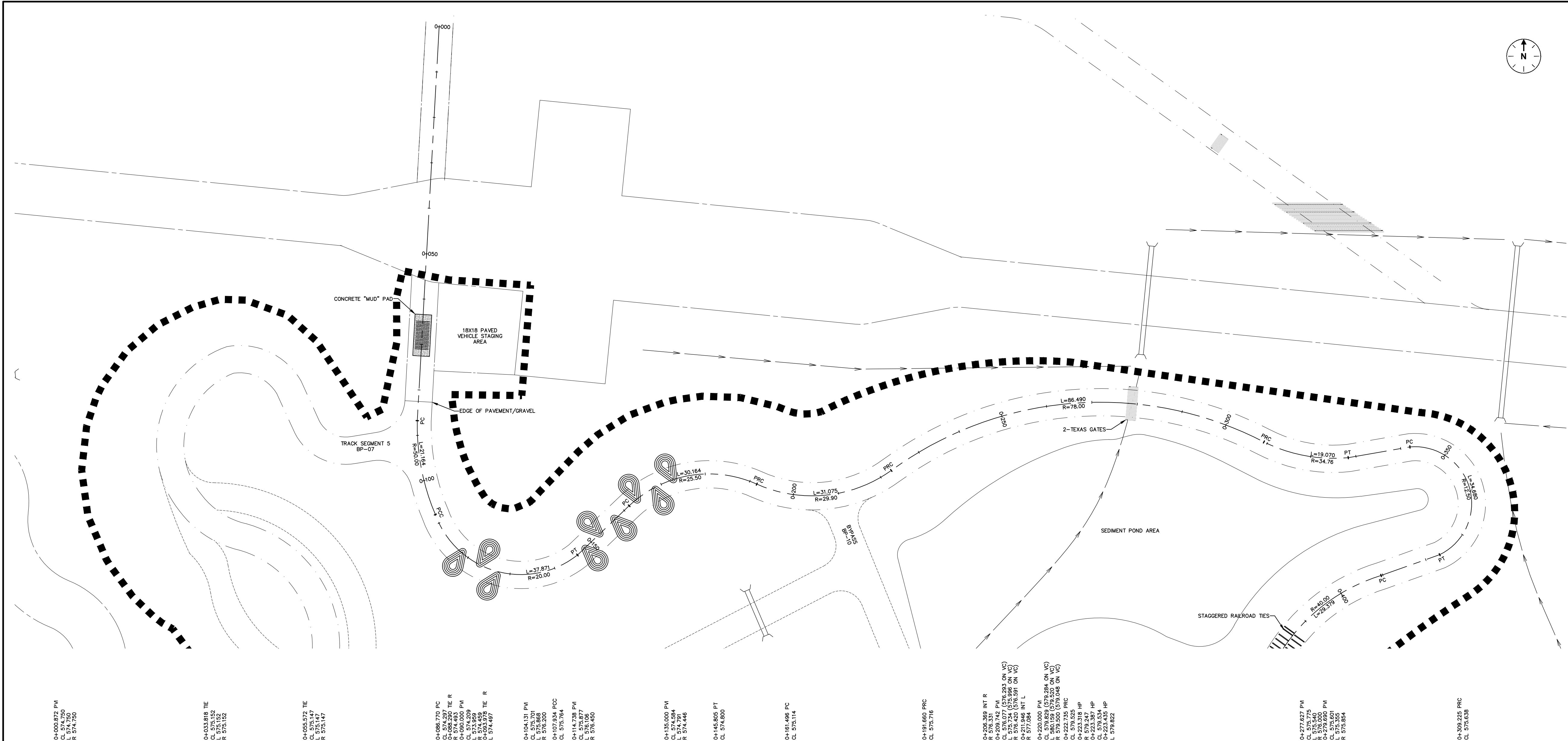
Client/client


Drawing title/Titre du dessin

TRACK GRADING PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
3104102	SURF-02 04 OF 29	2.0







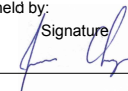
Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

PC – POINT OF CURVATURE  
PCC – POINT OF COMPOUND CURVATURE  
PT – POINT OF TANGENT  
PRC – POINT OF REVERSE CURVATURE  
PIV – POINT OF VERTICAL INTERSECT  
VC – VERTICAL CURVATURE  
CL – CENTERLINE  
L – LEFT EDGE OF TRACK  
R – RIGHT EDGE OF TRACK  
HP – HIGH POINT  
LP – LOW POINT

PROFESSIONAL ENGINEER  
J. F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR. MN. DAY  
SASKATCHEWAN

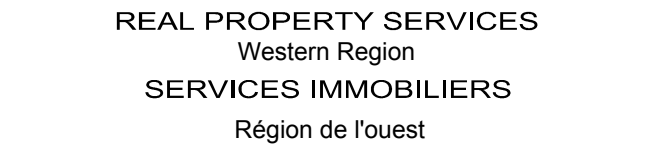
Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Hensfield Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL    SR Reg. No.: 20899    Signature: 

1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06
2	ISSUED FOR TENDER	2016-09-09

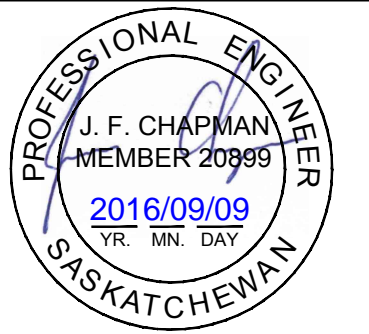
Revision/ Révision	Description/Description	Date/Date
Client/client		
	<b>PWGSC</b>	
	1800 11th Avenue, Suite 201 Regina, SK, S4P 0H8	
	Project title/Titre du projet	
	<b>NEW DRIVER TRAINING TRACK PLAN &amp; PROFILE</b>	
	Approved by/Approuvé par JFC	
	Designed by/Concept par TST	
	Drawn by/Dessiné par TST	
	PWGSC Project Manager/Administrateur de Projets TPWSC LIONEL OATWAY	
	PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPWSC	
	Client/client	
	Drawing title/Titre du dessin <b>PLAN &amp; PROFILE SEGMENT 1 STA 0+000 TO STA 0+320</b>	

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>BP-01</b> 05 OF 29	Revision no./ La Révision no. <b>2.0</b>
--	---	---





PC - POINT OF CURVATURE  
PT - POINT OF COMPOUND CURVATURE  
PC - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HIP - HIGH POINT  
LP - LOW POINT



Association of Professional Engineers & Geoscientists  
of Saskatchewan

**CERTIFICATE OF AUTHORIZATION**  
Morrison Hershfield Limited.  
Number C0019

Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
CIVIL	20899	
_____	_____	_____

00000	00000	00000
00000	00000	00000
00000	00000	00000
00000	00000	00000
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/ Revision	Description/Description	Date/Date
Client/client		

**PWGSC**

**1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8**

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuve par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessine par  
TST

PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

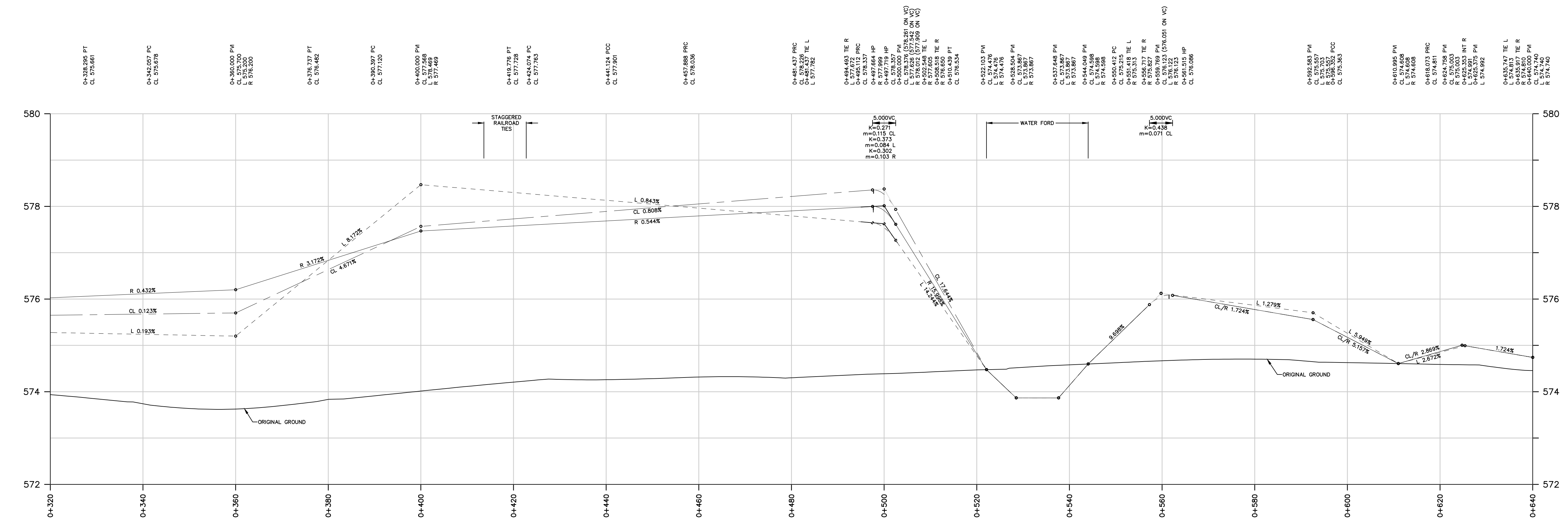
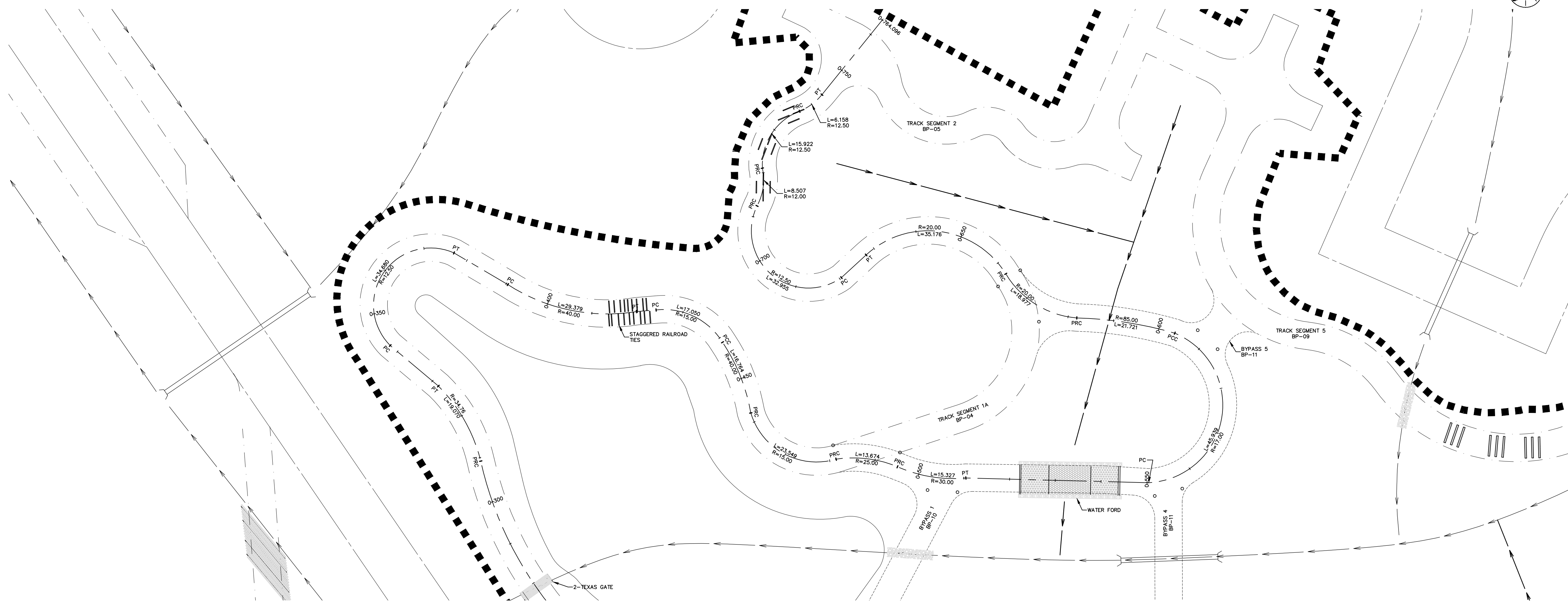
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

**Client/client**

Drawing title/Titre du dessin

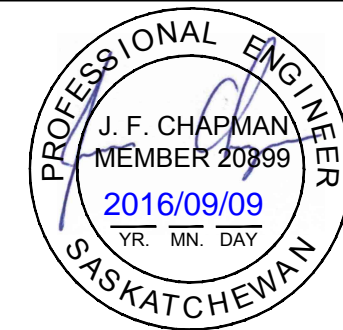
**PLAN & PROFILE**  
**SEGMENT 1 STA 0+320 TO STA 0+640**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
3104102	<b>BP-02</b> 06 OF 29	<b>2.0</b>





PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08

Revision/ Révision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client  
**PWGC**  
  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

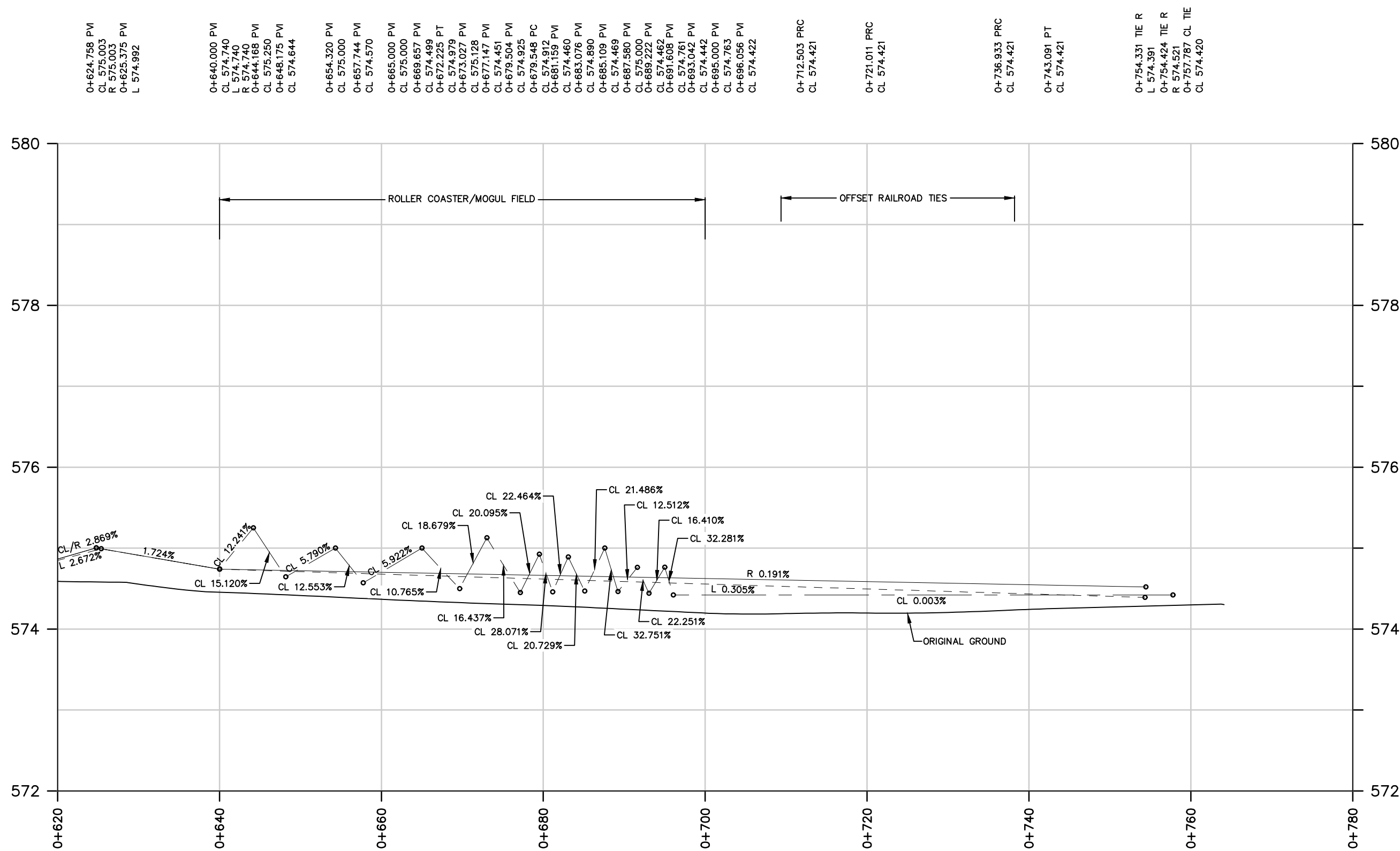
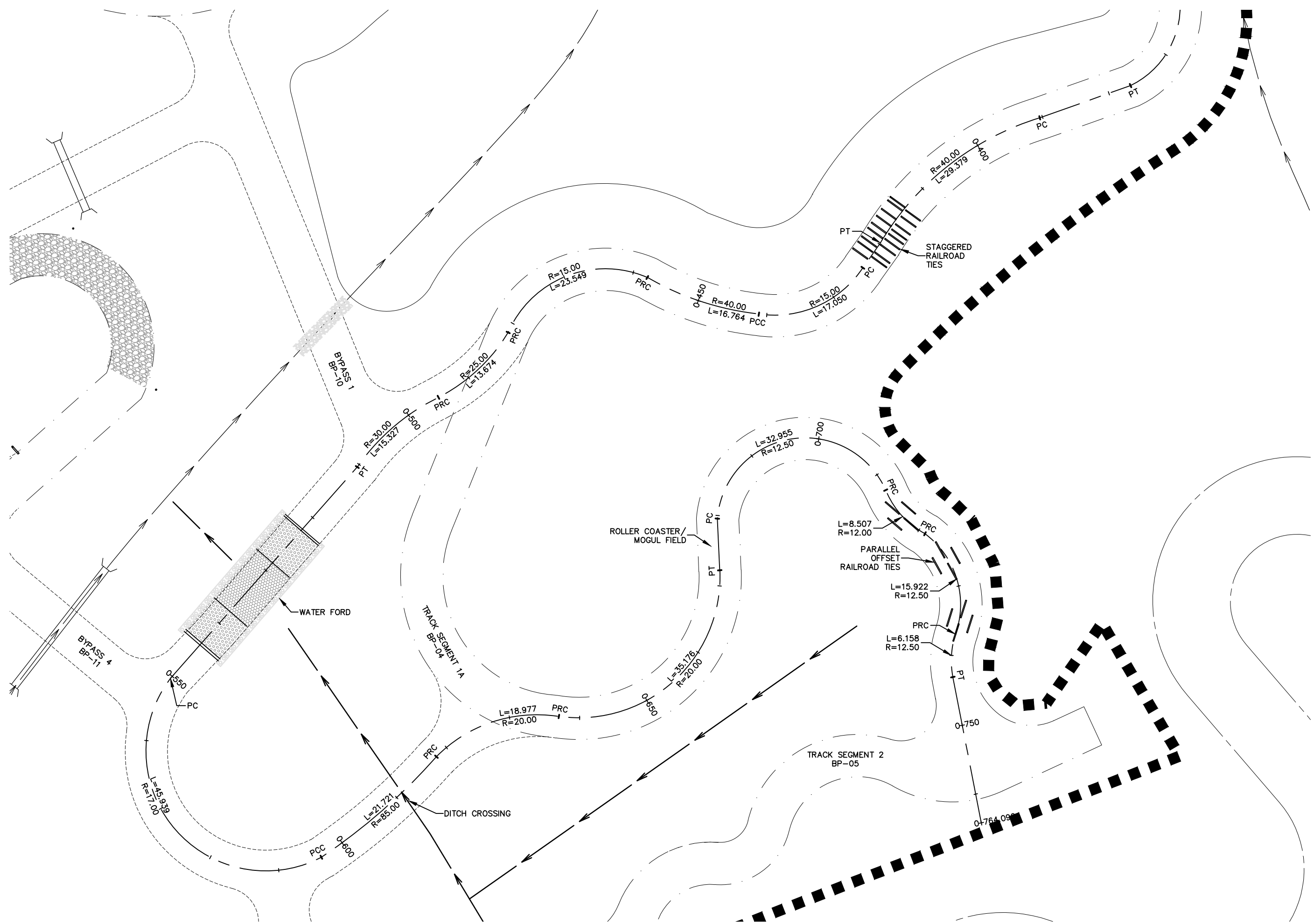
PWGC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

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

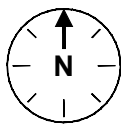
Client/client

Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 1 STA 0+620 TO STA 0+780**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>BP-03</b> 07 OF 29	Revision no./ La Révision no. <b>2.0</b>
--	---	---







PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/ Révision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

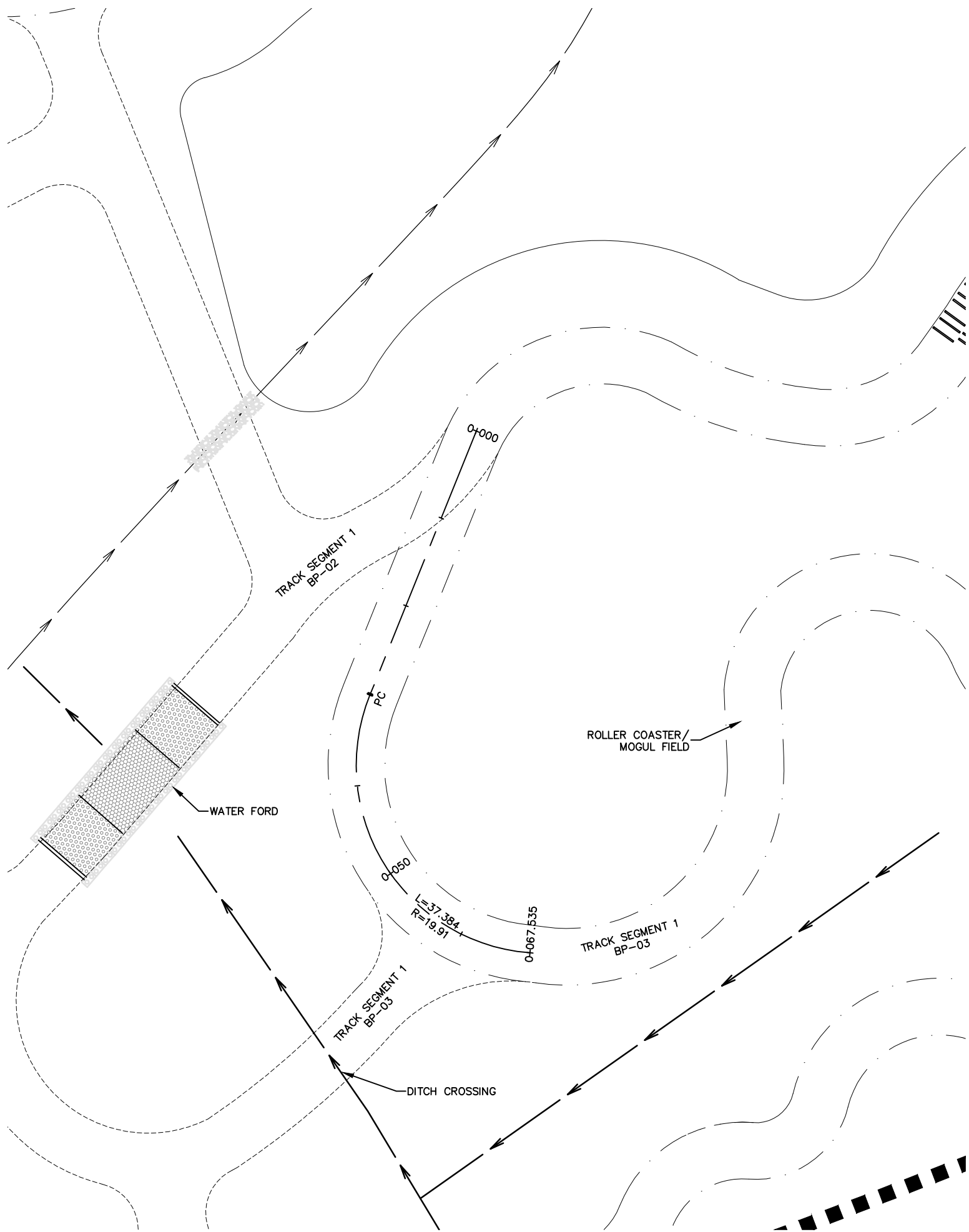
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client

Drawing title/Titre du dessin

## PLAN & PROFILE SEGMENT 1A

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
3104102	BP-04 08 OF 29	2.0



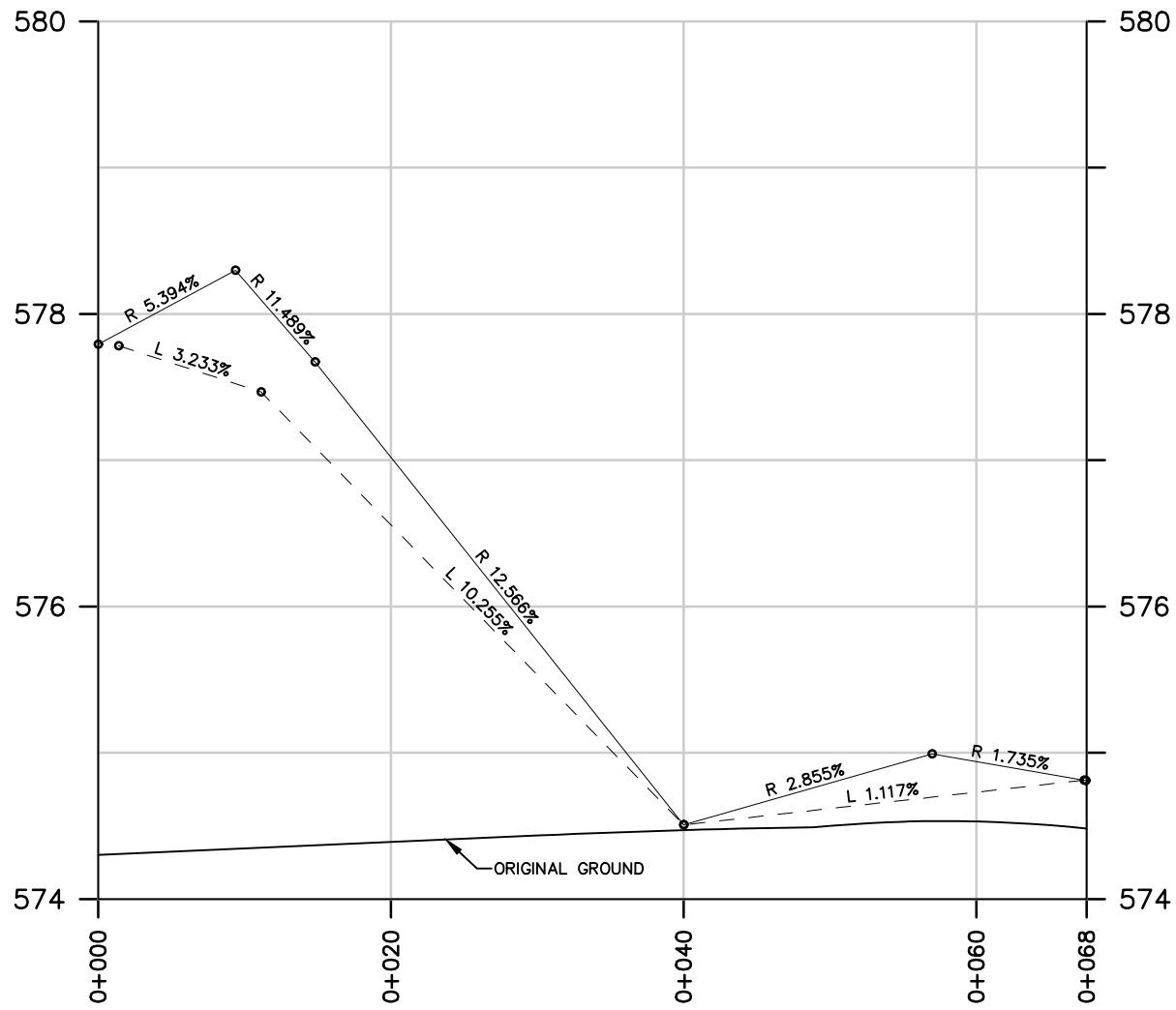
0+000.000 PVI  
R 577.782  
L 577.782  
0+008.370 PVI  
R 578.297  
L 577.487  
0+014.814 PVI/TIE L  
R 577.672

0+030.151 PC  
L 575.517

0+040.000 PVI  
L 574.507  
R 574.507

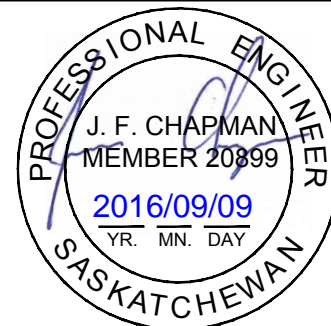
0+056.481 PVI/NT L  
R 574.992

0+067.375 TIE L  
L 574.813  
R 574.810





PC – POINT OF CURVATURE  
PCC – POINT OF COMPOUND CURVATURE  
PT – POINT OF TANGENT  
PRC – POINT OF REVERSE CURVATURE  
PVI – POINT OF VERTICAL INTERSECT  
VC – VERTICAL CURVATURE  
CL – CENTERLINE  
L – LEFT EDGE OF TRACK  
R – RIGHT EDGE OF TRACK  
HP – HIGH POINT  
LP – LOW POINT



Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Hensfield Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, Ssk. Reg. No.: 20899, Signature: [Signature]

----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/ Révision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

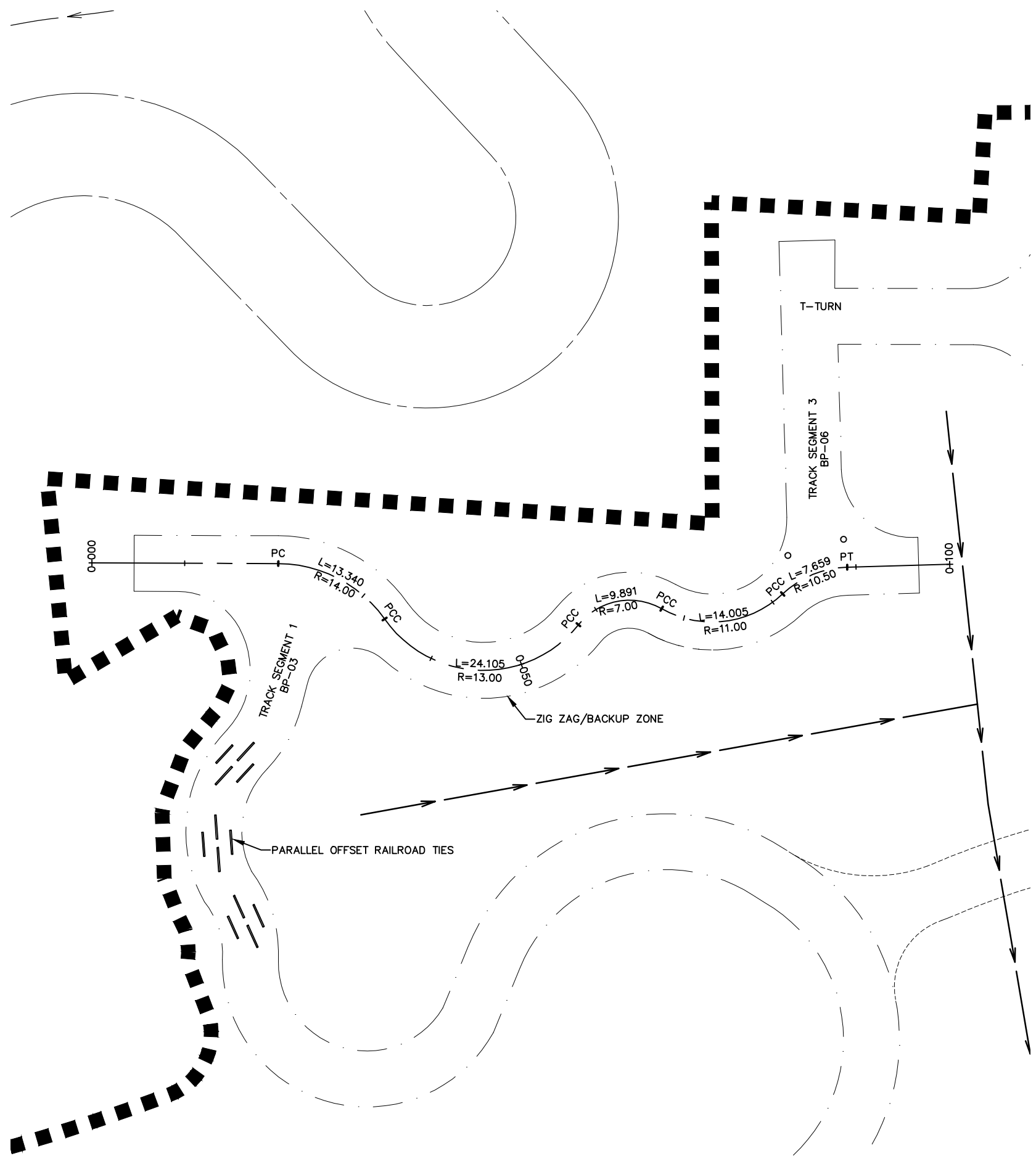
PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

Drawn title/Titre du dessin  
PLAN & PROFILE  
SEGMENT 2

Project No./No. du projet 3104102	Sheet/Feuille BP-05 09 OF 29	Revision no./ La Révision no. 2.0
---	------------------------------------	--



0+000.000 PVI  
CL 574.039  
L 574.140  
R 574.140  
0+004.588 PVI/START EOG  
CL 574.039  
L 574.140  
R 574.140

0+019.440 TIE L  
R 574.301  
L 574.335  
0+020.760 PVI  
CL 574.462  
L 574.521  
R 574.521

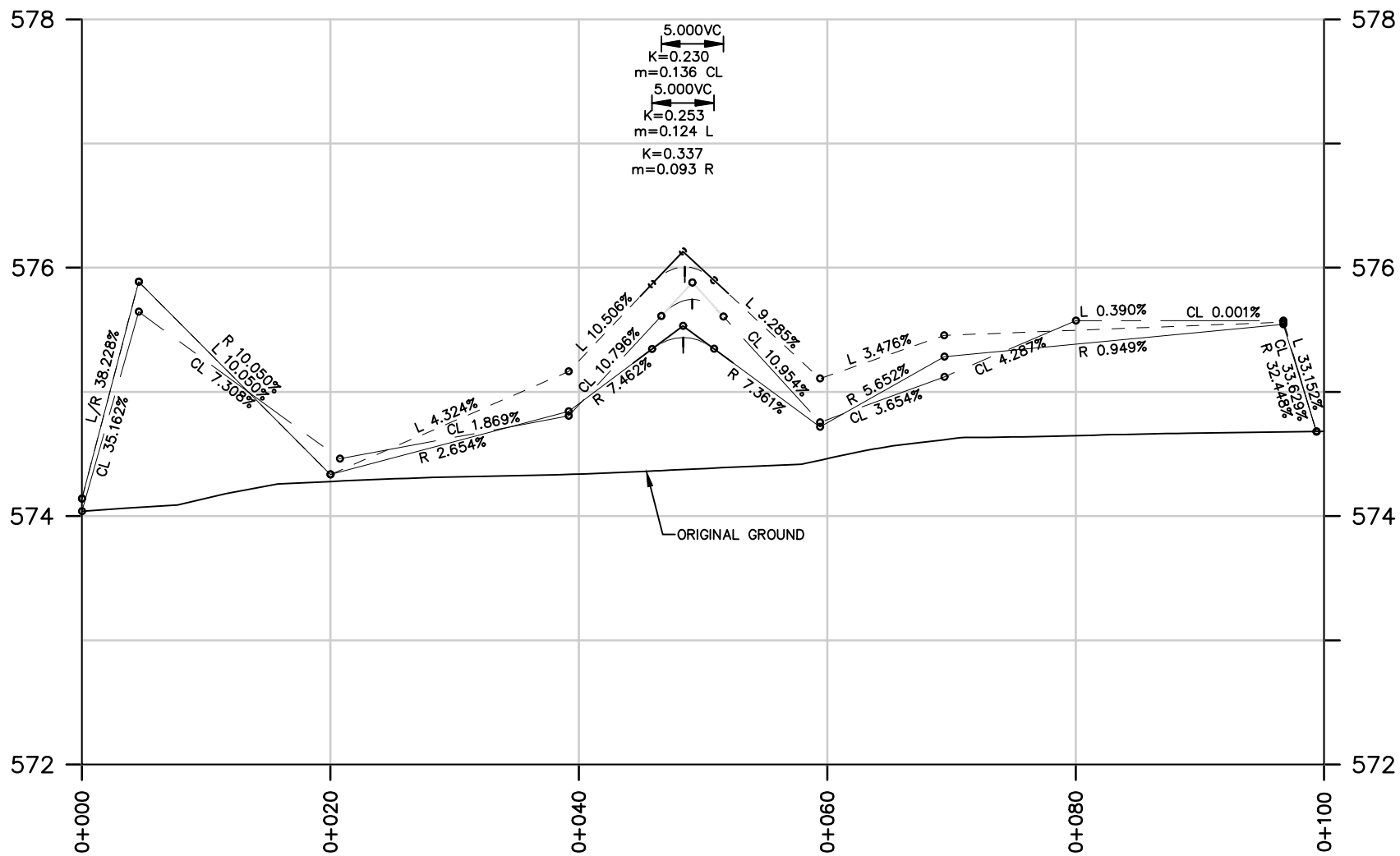
0+039.188 PVI  
CL 575.165  
L 575.165  
R 575.165  
0+048.401 HP  
L 576.008  
R 576.008  
0+048.380 PVI  
CL 575.331  
L 575.331  
R 575.331

0+049.162 PVI  
CL 574.725  
L 574.725  
R 574.725  
0+059.419 PVI  
CL 574.719  
L 574.719  
R 574.719

0+069.428 PVI  
CL 575.121  
L 575.121  
R 575.121

0+080.000 PVI  
CL 575.574  
L 575.574  
R 575.574

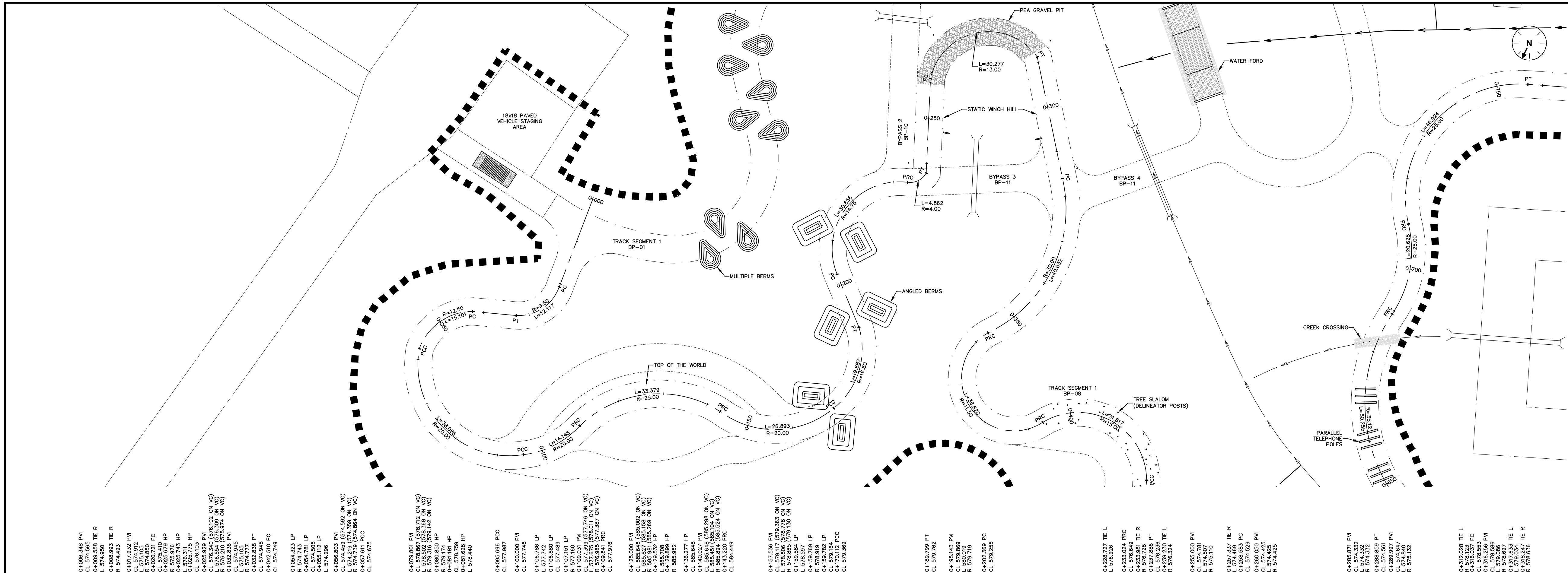
0+086.718 PVI/END EOG  
CL 575.574  
L 575.574  
R 575.574













Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

PC – POINT OF CURVATURE  
PCC – POINT OF COMPOUND CURVATURE  
PT – POINT OF TANGENT  
PRC – POINT OF REVERSE CURVATURE  
PVI – POINT OF VERTICAL INTERSECT  
VC – VERTICAL CURVATURE  
CL – CENTERLINE  
L – LEFT EDGE OF TRACK  
R – RIGHT EDGE OF TRACK  
HP – HIGH POINT  
LP – LOW POINT



PROFESSIONAL ENGINEER  
J. F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR. MN. DAY  
SASKATCHEWAN

Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Herdfield Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL    SR Reg. No.: 20899    Signature: 

1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08
2	ISSUED FOR TENDER	2016-09-09

Revision/	Description/Description	Date/Date
Client/client		

**PWGSC**

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

**NEW DRIVER TRAINING TRACK  
PLAN & PROFILE**

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

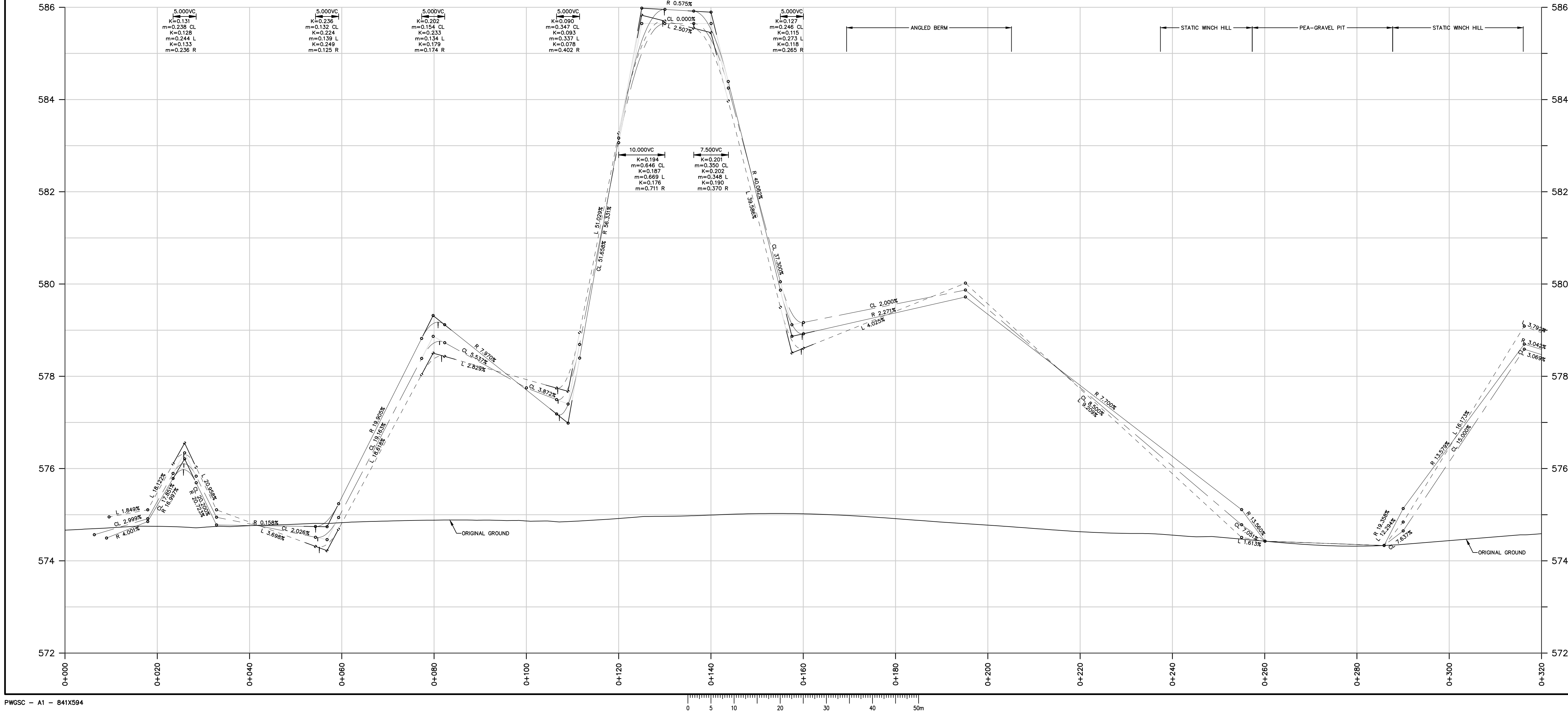
PWGSC Project Manager/Administrateur de Projets TPWSC  
LIONEL OATWAY

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

Client/client

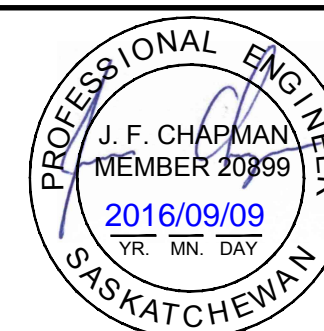
Drawing title/Titre du dessin  
**PLAN & PROFILE  
SEGMENT 5 STA 0+000 TO 0+320**

Project No./No. du projet 3104102	Sheet/Feuille <b>BP-07</b> 11 OF 29	Revision no./ La Révision no. <b>2.0</b>
---	---	---





PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



XXXX	XXXX	XXXX
XXXX	XXXX	XXXX
XXXX	XXXX	XXXX
XXXX	XXXX	XXXX
XXXX	XXXX	XXXX
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/ Revision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

PWGSC

**1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8**

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuve par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC  
LIONEL OATWAY

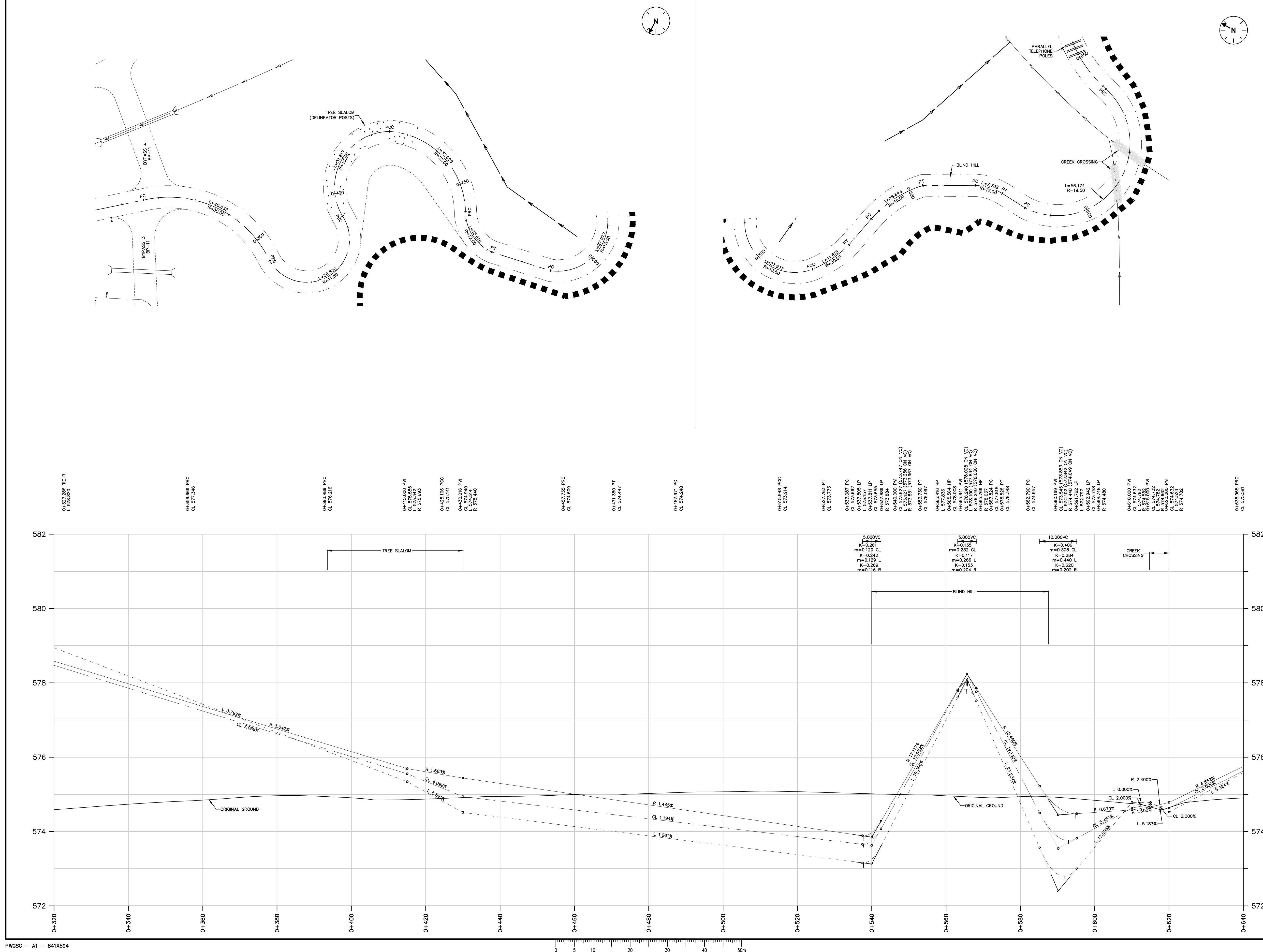
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
---------------

Drawing title/Titre du dessin

**PLAN & PROFILE**  
**SEGMENT 5 STA 0+320 TO STA 0+640**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
3104102	BP-08	2.0
	12 OF 29	





PROFESSIONAL ENGINEER  
J. F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR. MN. DAY  
SASKATCHEWAN

	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

**PWGSC**

**1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8**

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

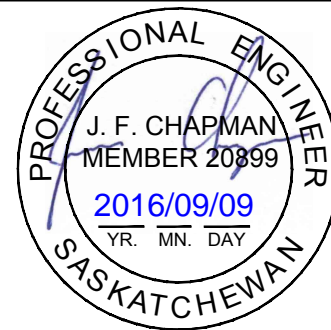
## PLAN & PROFILE

### SEGMENT 5 STA 0+640 TO STA 0+800

	13 OF 29	
--	----------	--



PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT



----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/	Description/Description	Date/Date
Client/client		

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

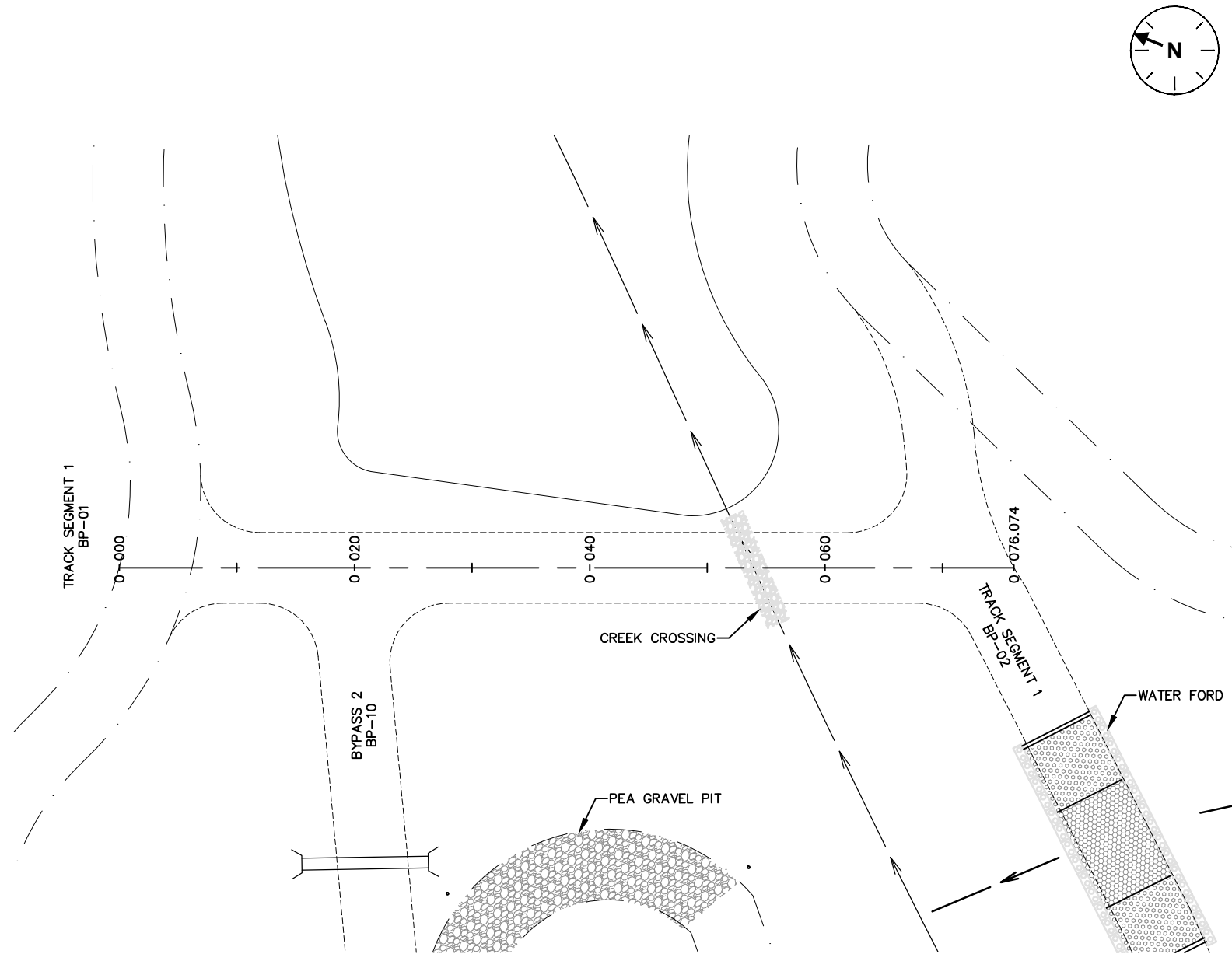
Drawing title/Titre du dessin

PLAN & PROFILE  
BYPASS AREA 1 & 2

Project No./No. du  
projet  
3104102

Sheet/Feuille  
BP-10  
14 OF 29

Revision no./  
La Révision  
no.  
2.0

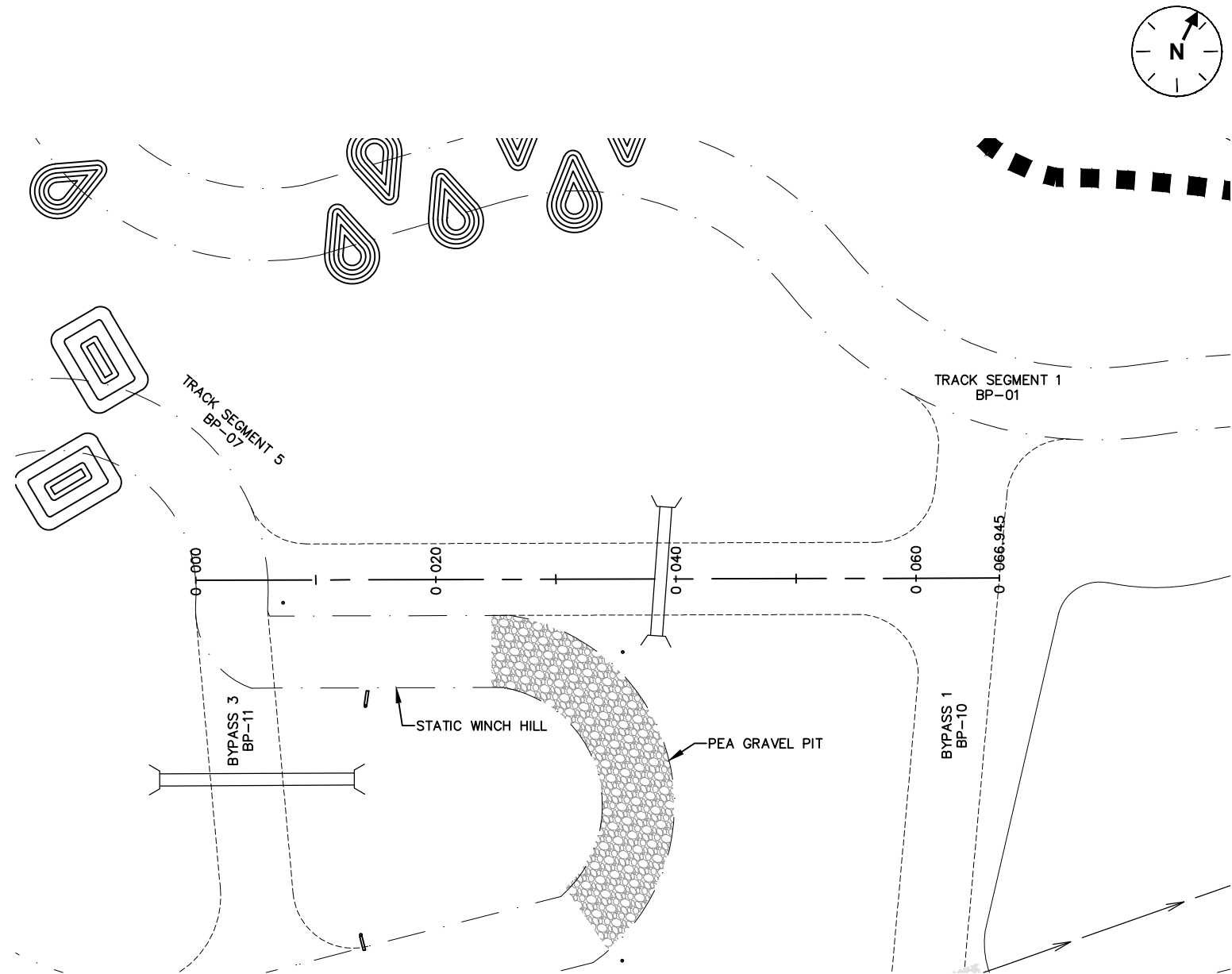
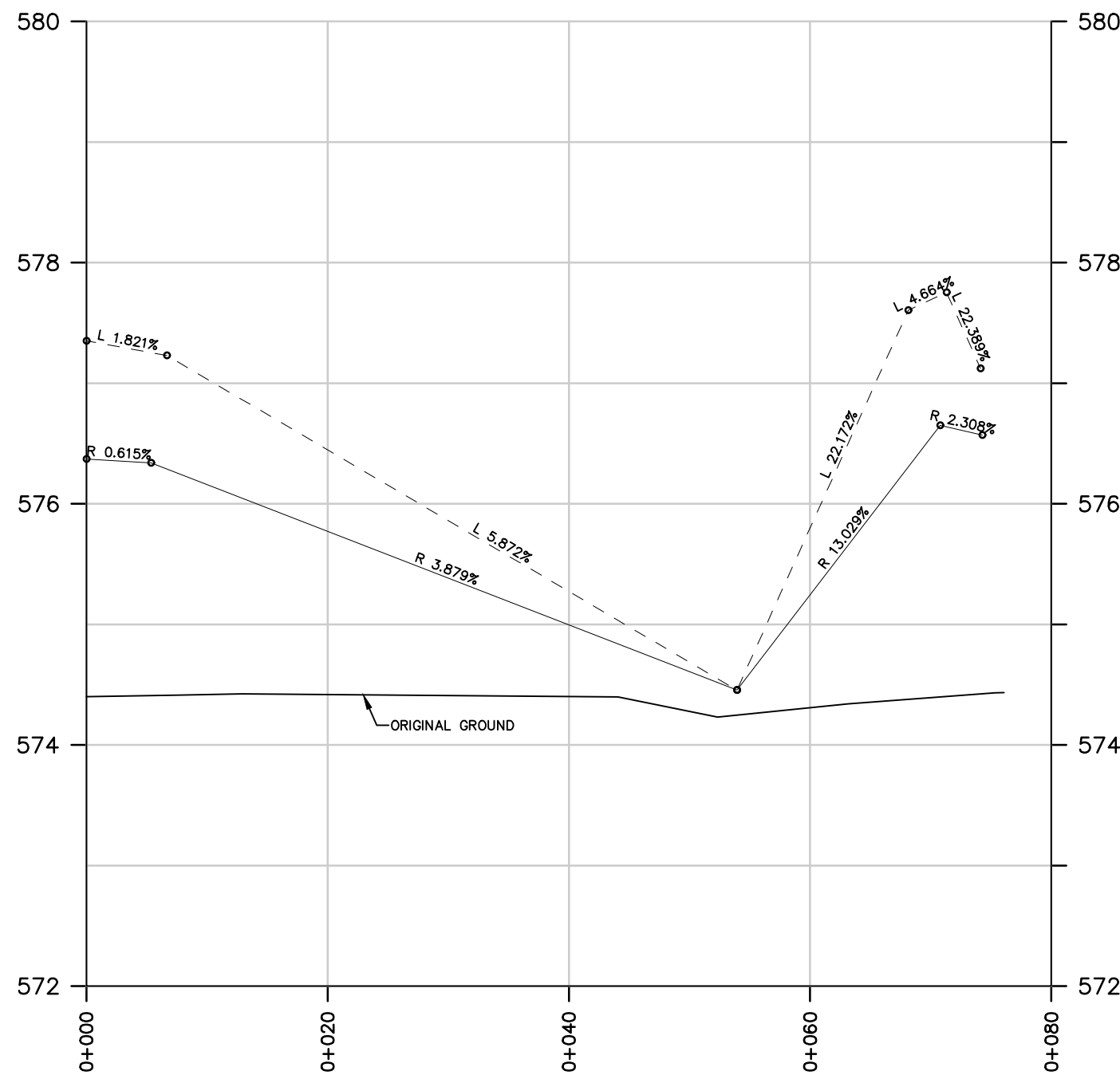


BYPASS 1

0+005.602 PVI  
L 576.371  
R 576.371  
0+005.368 TIE R  
L 576.371  
R 576.371  
0+006.274 TIE R  
L 577.230

0+005.632 PVI  
L 574.455  
R 574.455

0+006.141 PVI  
L 577.005  
R 577.005  
0+007.782 TIE R  
L 577.005  
R 577.005  
0+071.313 TIE R  
L 577.733  
R 577.733  
0+071.322 PVI  
L 577.122  
R 576.969

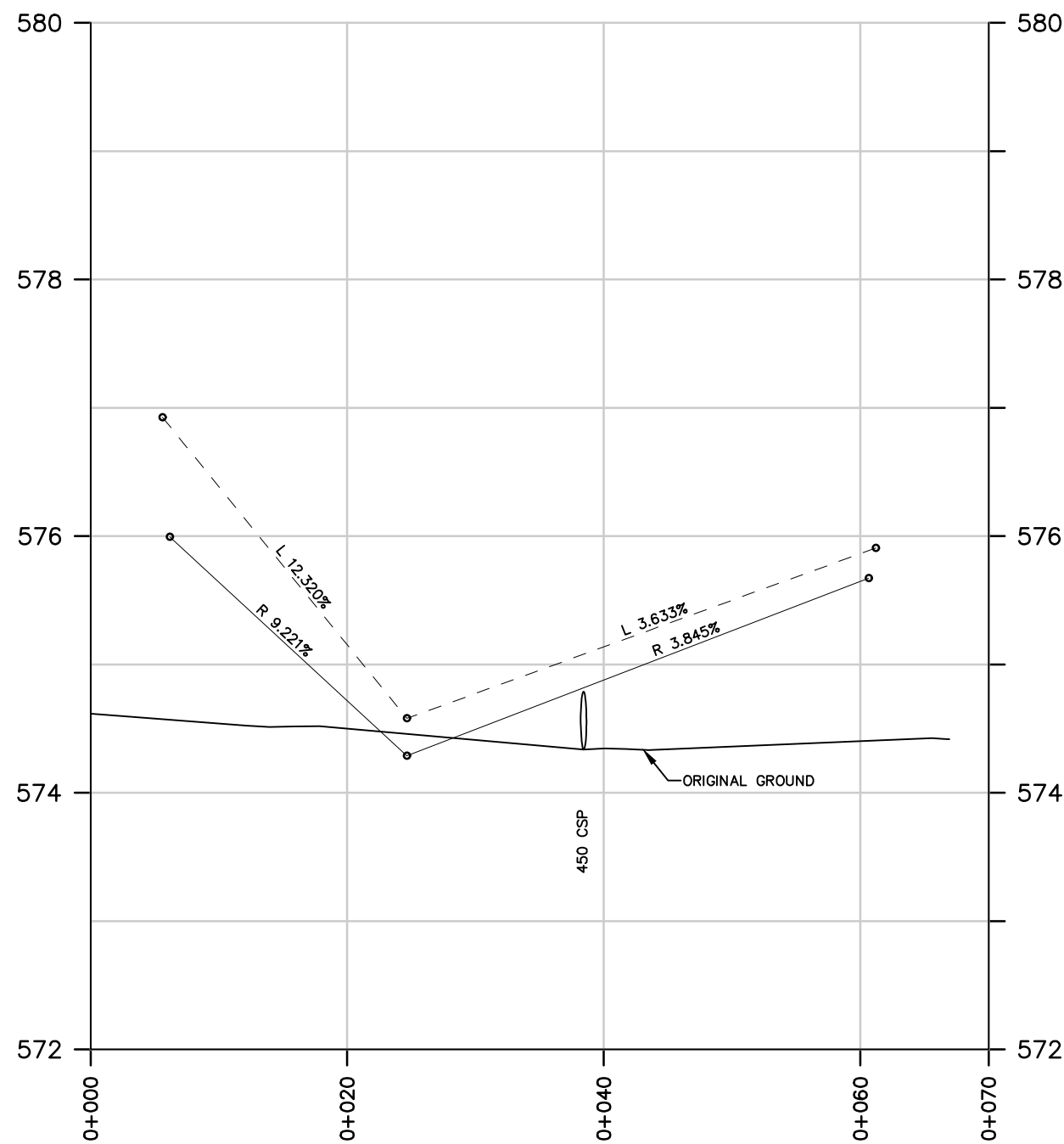


BYPASS 2

0+005.602 TIE L  
L 576.926  
R 576.926  
0+006.141 PVI  
L 575.894  
R 575.894

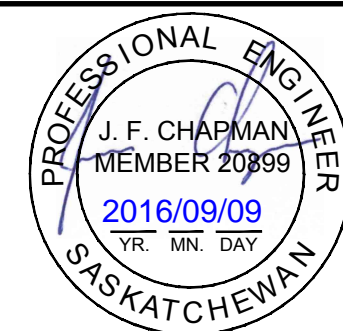
0+006.632 PVI  
L 574.579  
R 574.579  
0+024.632 TIE L  
L 574.289  
R 574.289

0+006.643 TIE R  
R 575.673  
L 575.673





PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVATURE  
PT - POINT OF TANGENT  
PRC - POINT OF REVERSE CURVATURE  
PVI - POINT OF VERTICAL INTERSECT  
VC - VERTICAL CURVATURE  
CL - CENTERLINE  
L - LEFT EDGE OF TRACK  
R - RIGHT EDGE OF TRACK  
HP - HIGH POINT  
LP - LOW POINT  
CSP - CORRUGATED STEEL PIPE



----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06

Revision/ Révision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client  
**PWGSC**  
  
1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK PLAN & PROFILE

Approved by/Approuvé par  
JFC

Designed by/Conçue par  
TST

Drawn by/Dessiné par  
TST

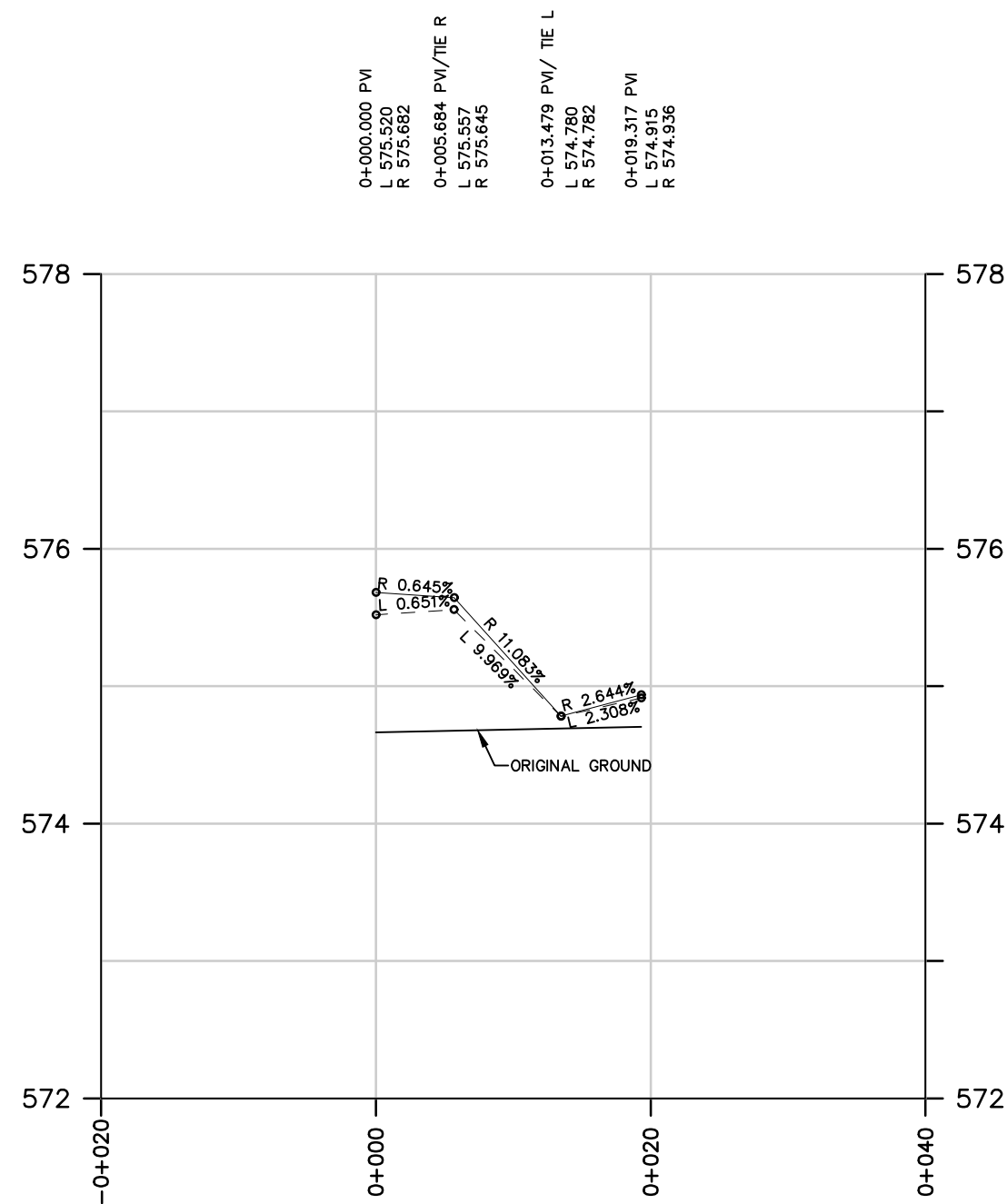
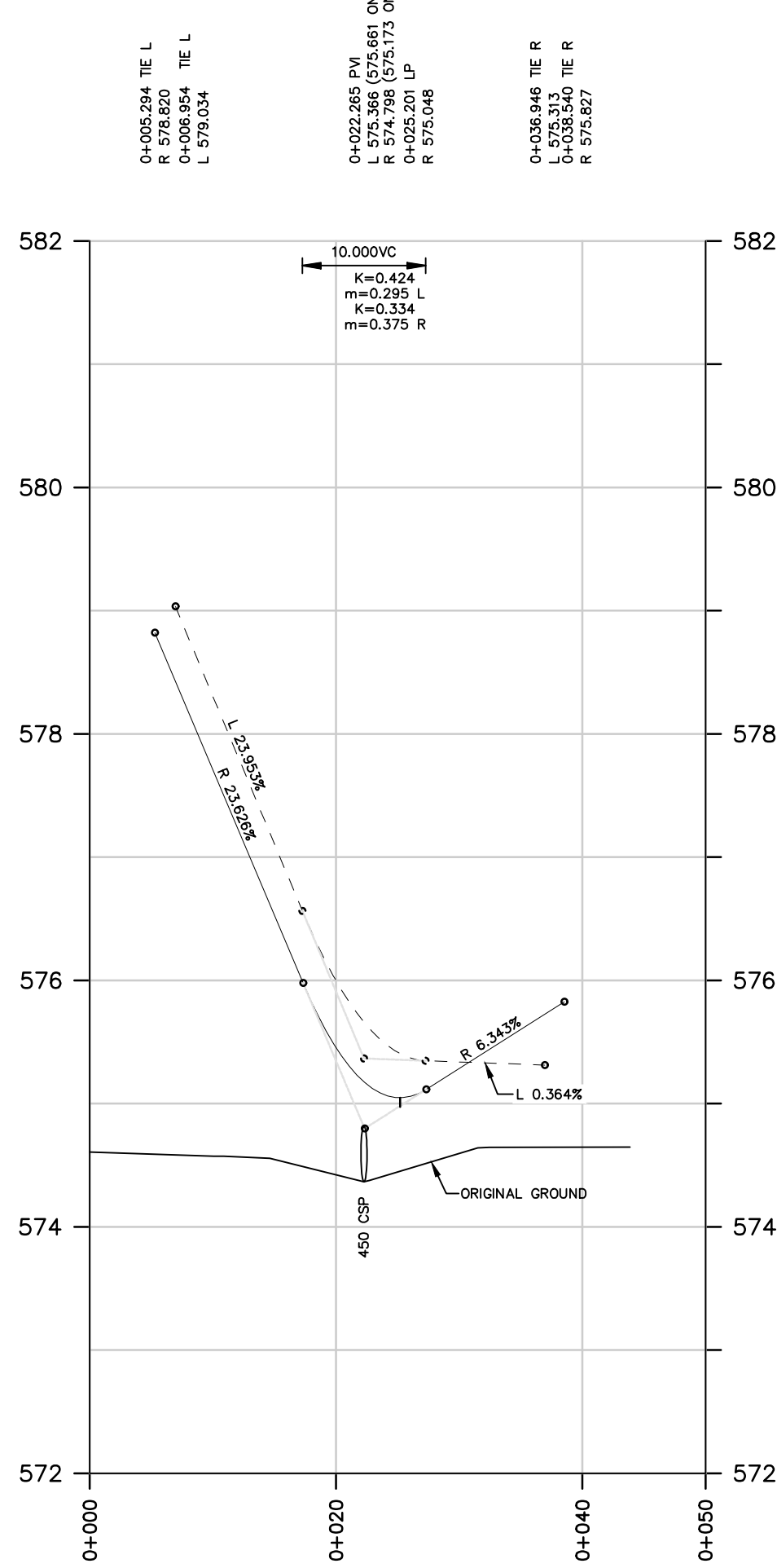
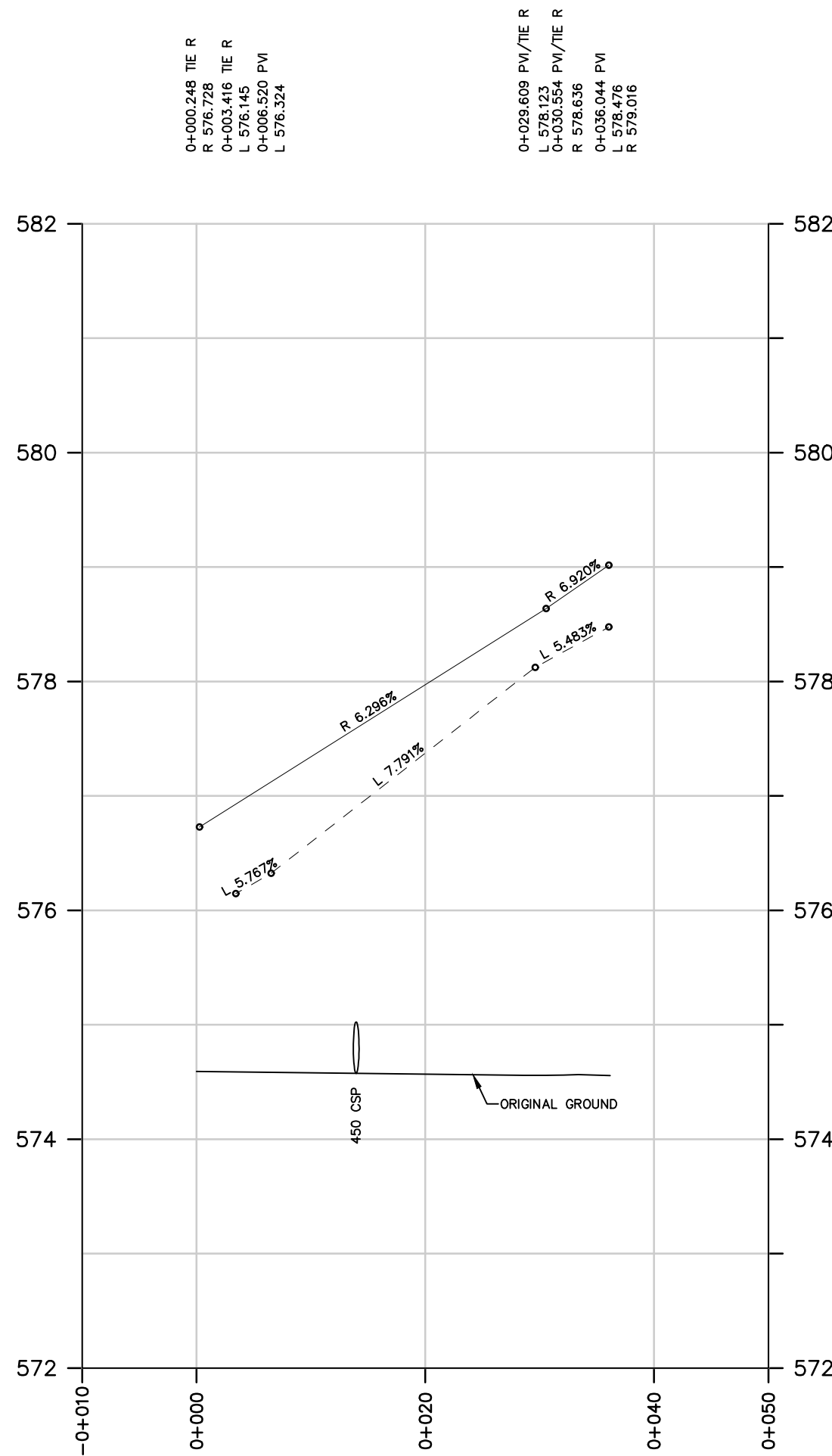
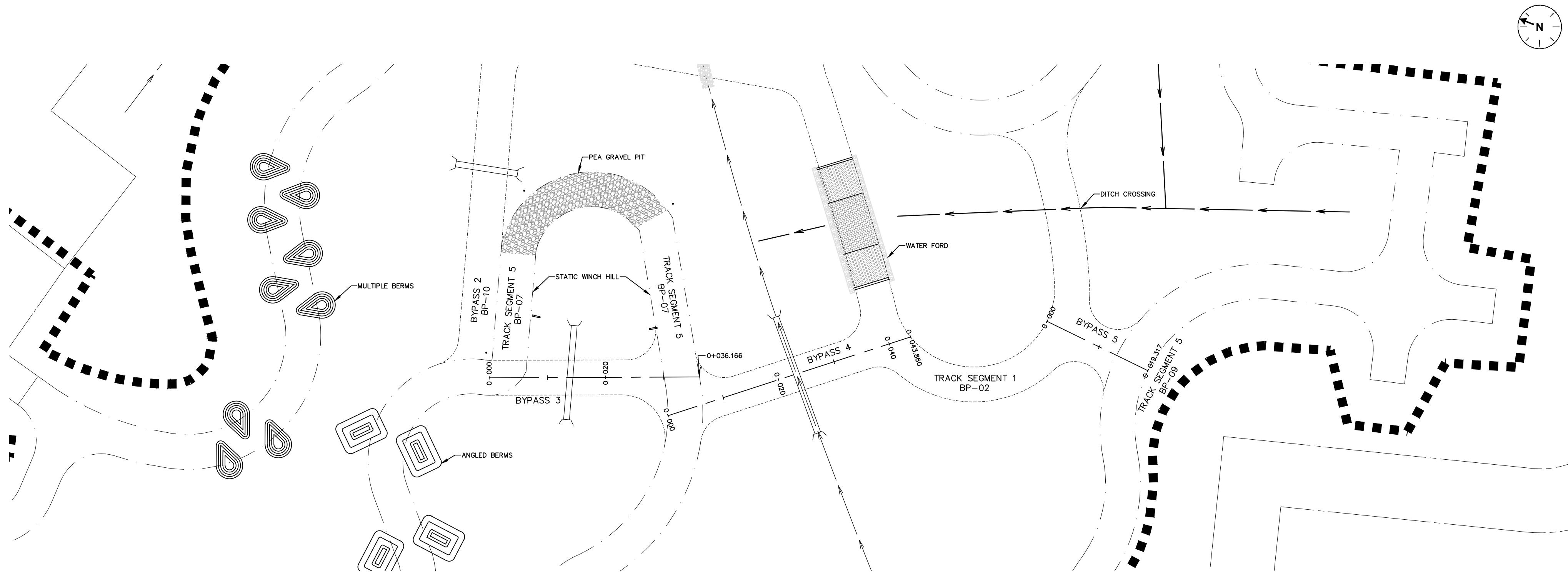
PWGSC Project Manager/Administrateur de Projets TP5GC  
LIONEL OATWAY

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TP5GC

Client/client

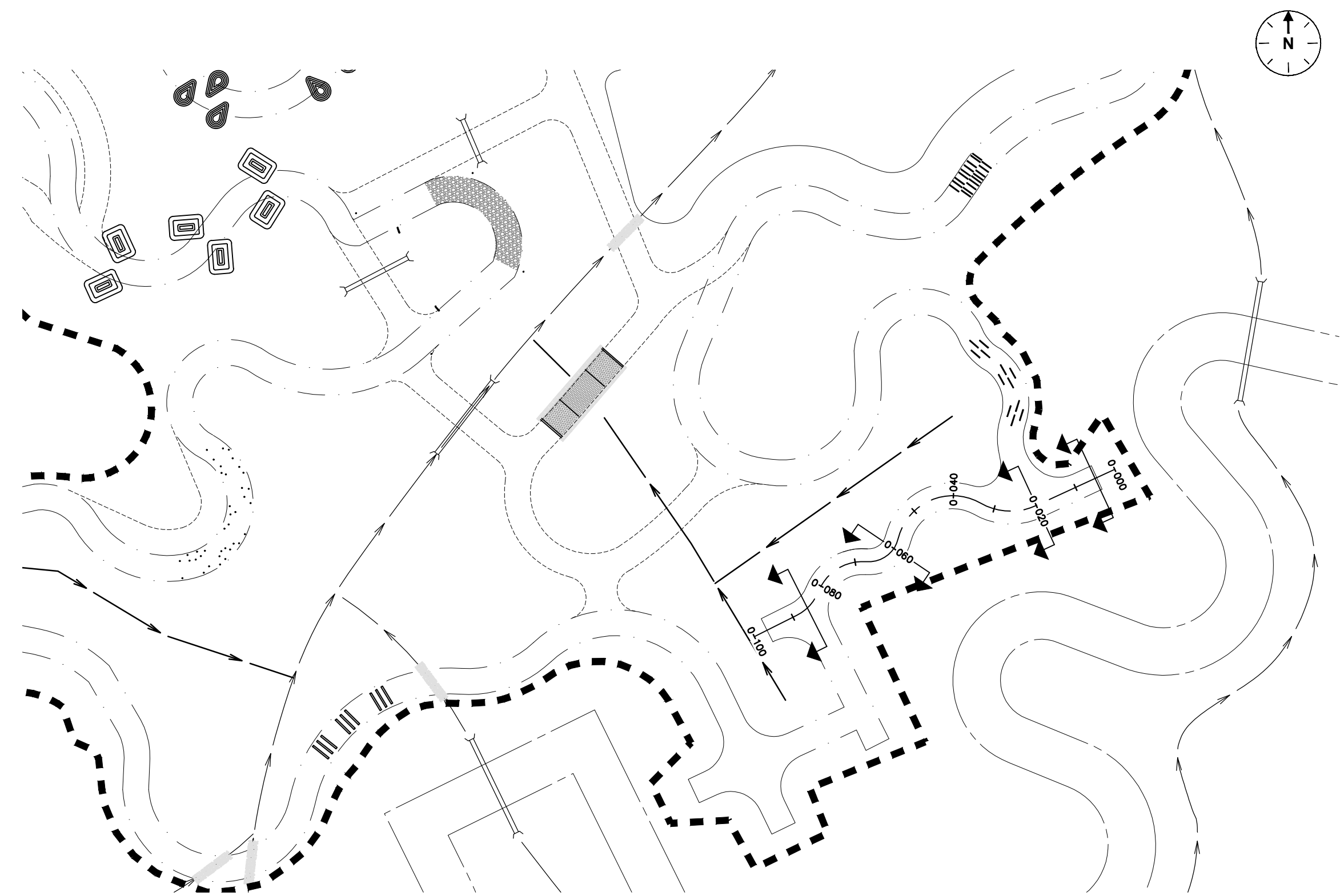
Drawing title/Titre du dessin  
**PLAN & PROFILE  
BYPASS AREA 3, 4 & 5**

Project No./No. du projet <b>3104102</b>	Sheet/Feuille <b>BP-11</b> 15 OF 29	Revision no./ La Révision no. <b>2.0</b>
--	---	---

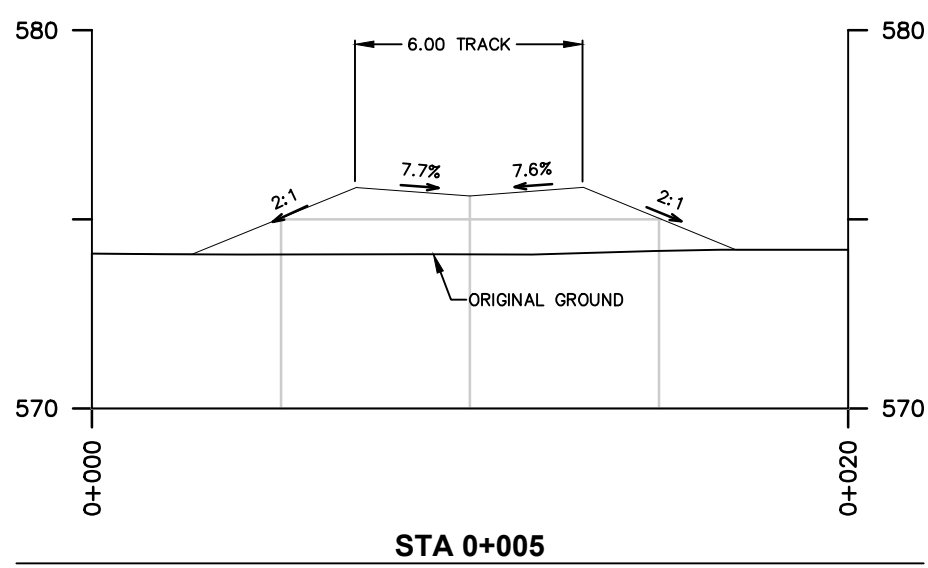




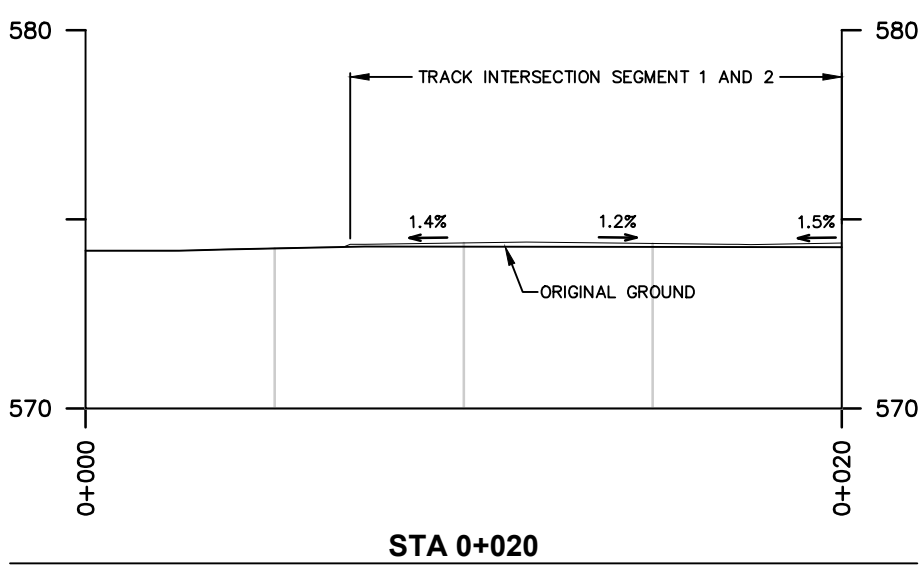




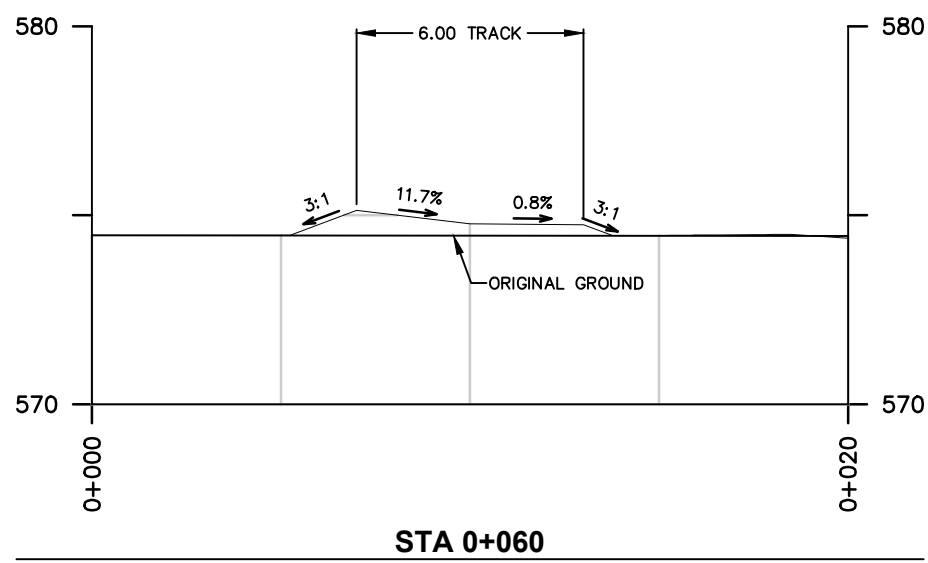
SEGMENT 2 CROSS-SECTIONS



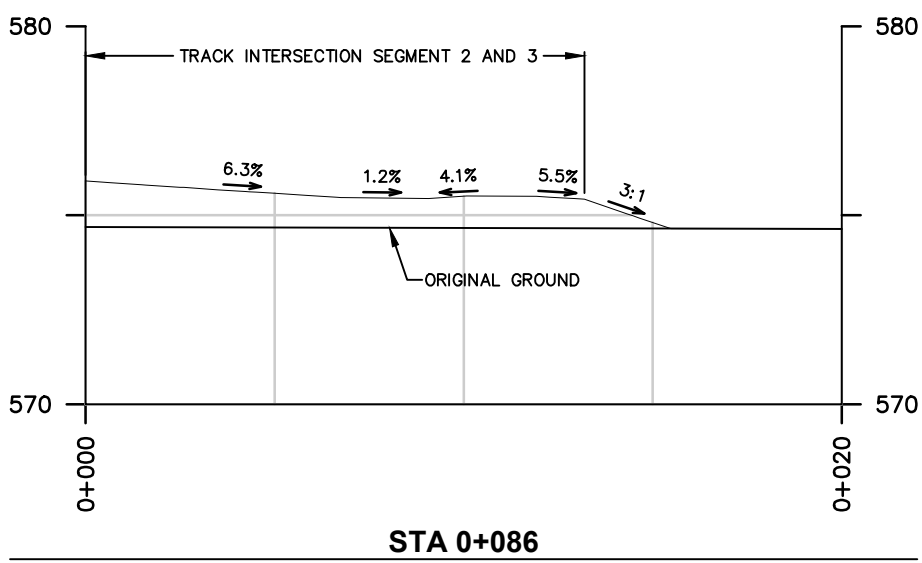
STA 0+005



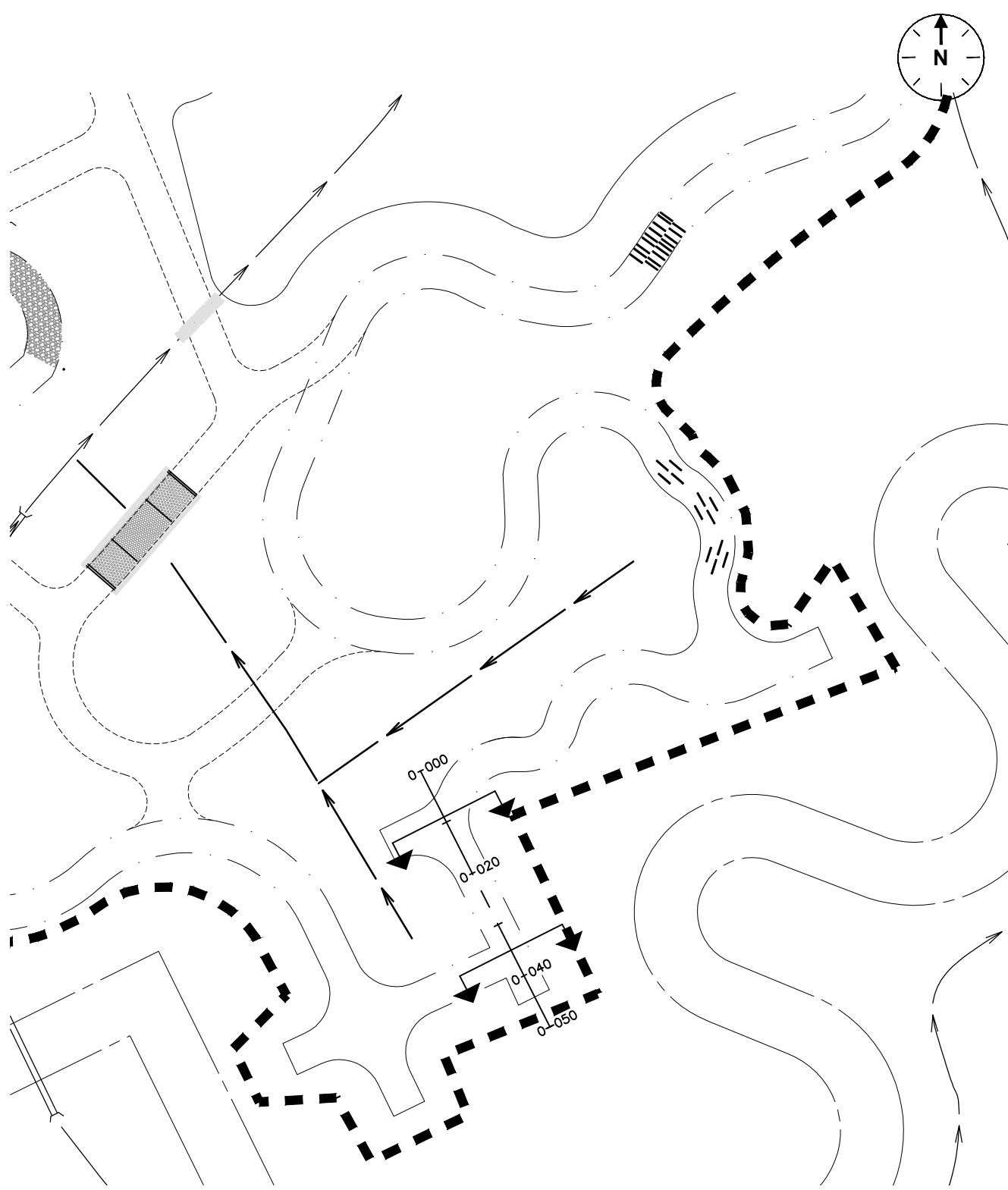
STA 0+020



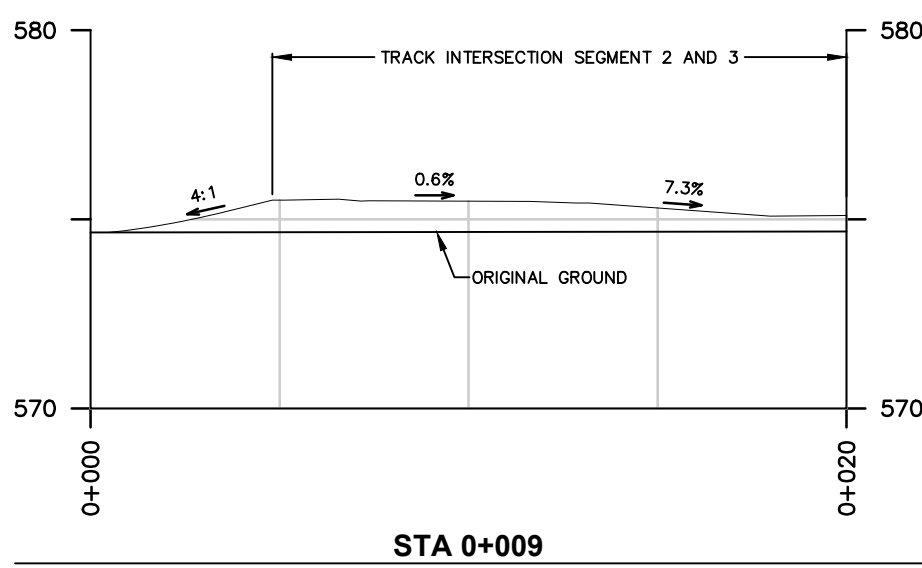
STA 0+060



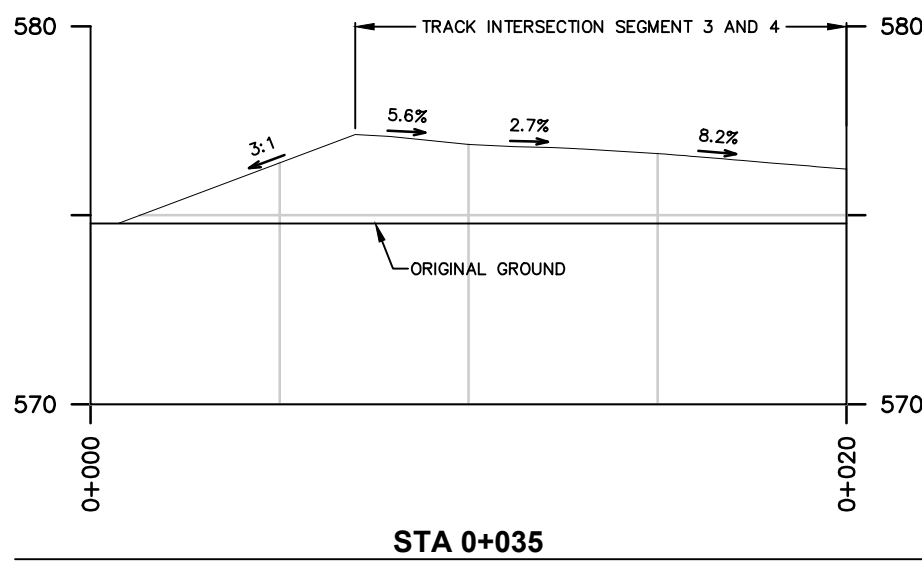
STA 0+086



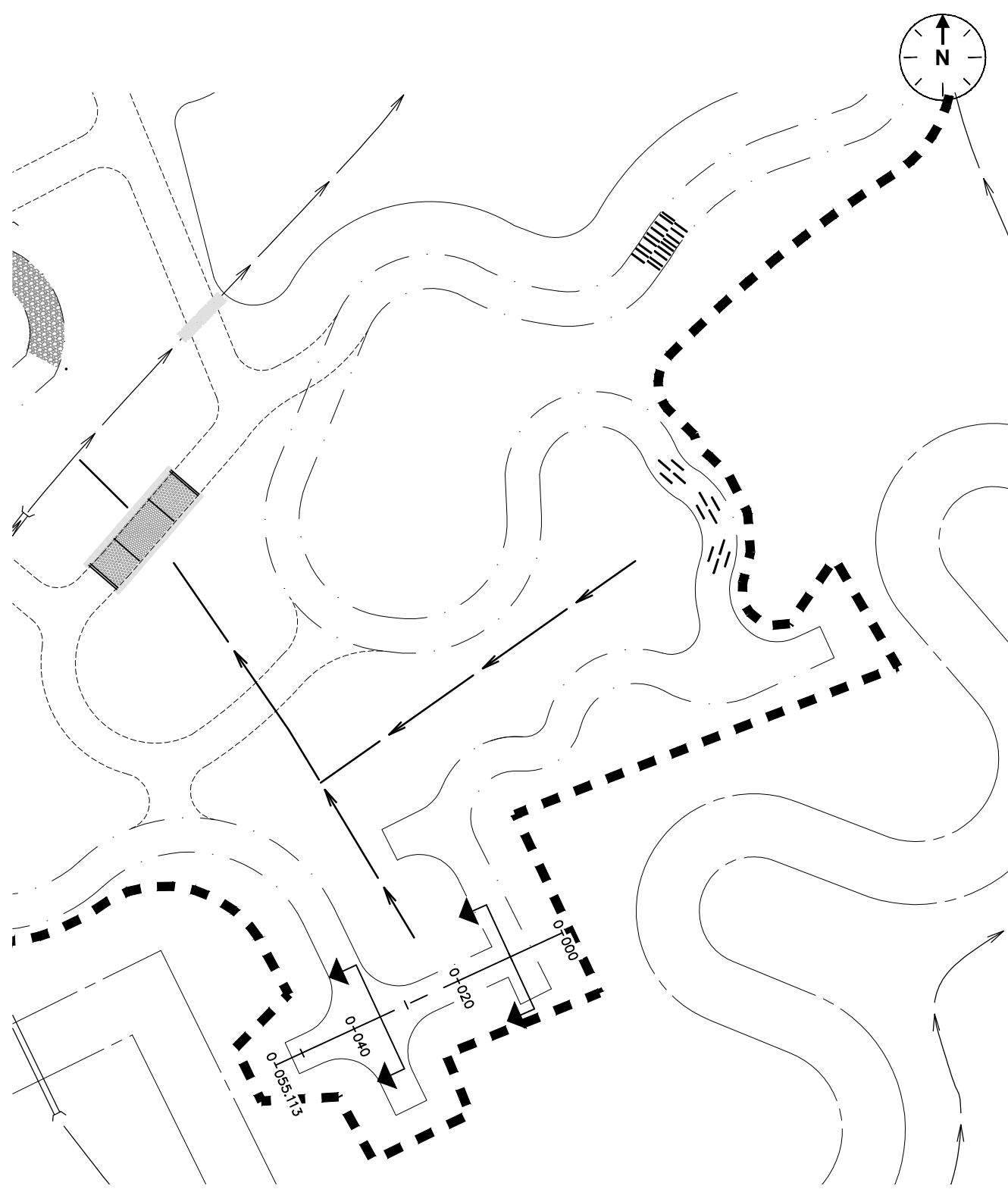
SEGMENT 3 CROSS-SECTIONS



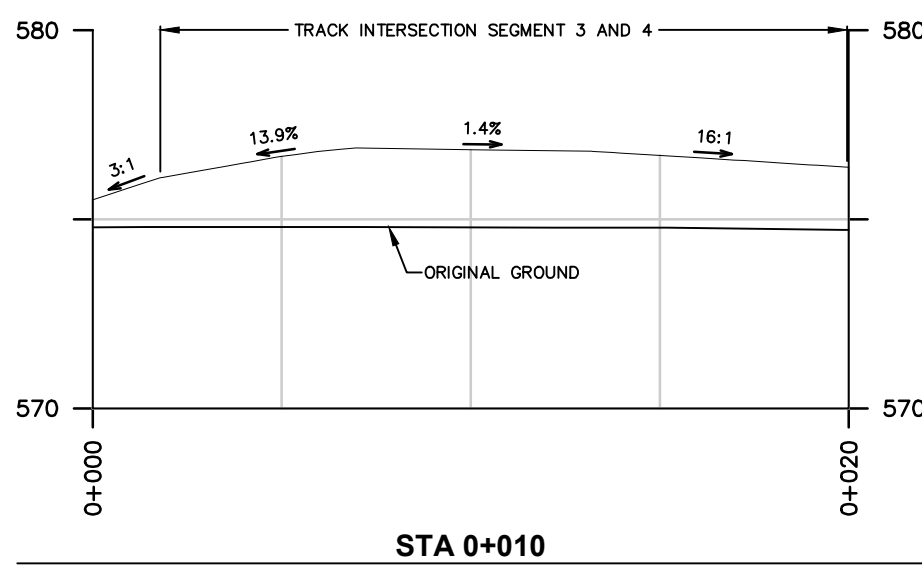
STA 0+009



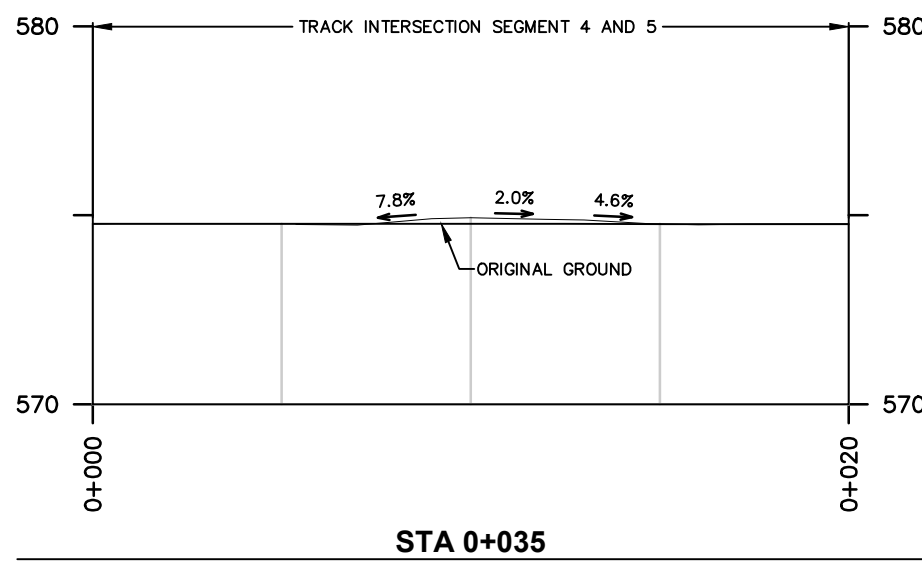
STA 0+035



SEGMENT 4 CROSS-SECTIONS



STA 0+010



STA 0+035

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

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

REFER TO CHAINAGE ON PLAN FOR LOCATION

100mm GRAVEL FILL  
COMPACTED FILL  
4X4 TRACK GRAVEL STRUCTURE

PROFESSIONAL ENGINEER  
J. F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR MN DAY  
SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Henderson Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL, Ssk. Reg. No.: 20899, Signature: JFC

.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06
Revision/ Révision	Description/Description	Date/Date

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

NEW DRIVER TRAINING TRACK  
CROSS-SECTION

Approved by/Approuve par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessine par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

Drawing title/Titre du dessin

CROSS-SECTION  
SEGMENTS 2, 3 & 4

Project No./No. du  
projet

3104102

Sheet/ Feuille

CS-02

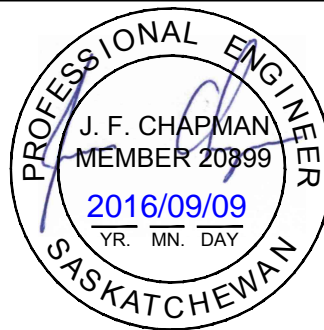
17 OF 29

Revision no.,  
La Révision  
no.

2.0







1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-06
2	ISSUED FOR TENDER	2016-09-09

Revision/	Description/Description	Date/Date
Client/client		

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK DETAILS

Approved by/Approuvé par  
JFC

Designed by/Conçue par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

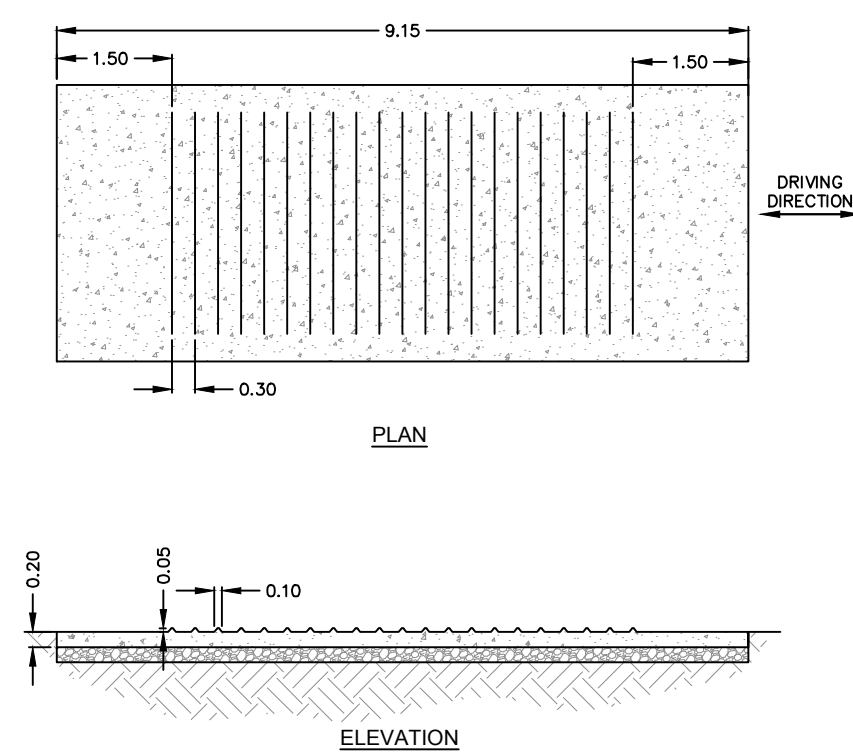
Drawing title/Titre du dessin

DETAILS  
COURSE ELEMENTS

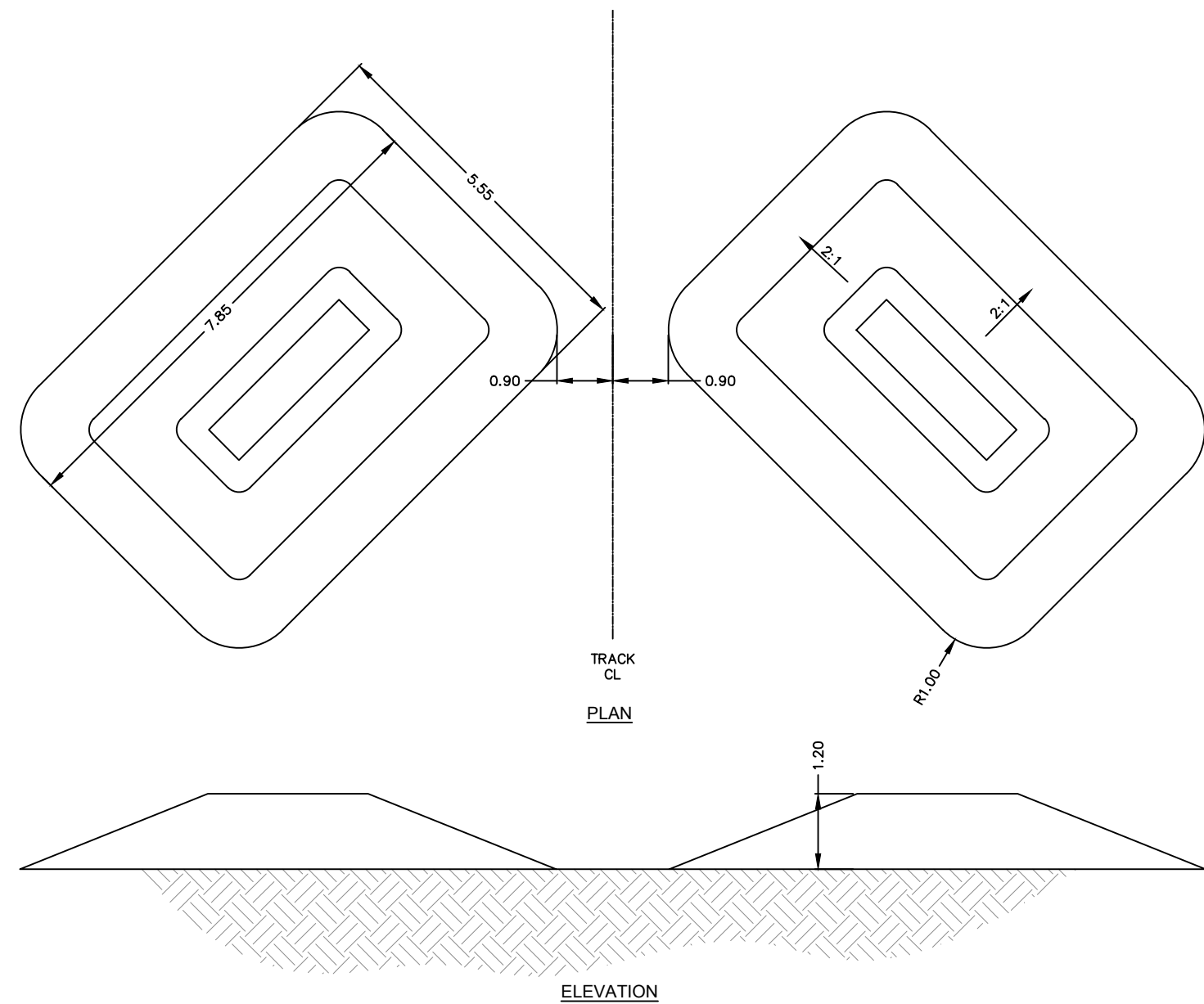
Project No./No. du  
projet  
3104102

Sheet/Feuille  
DET-01  
19 OF 29

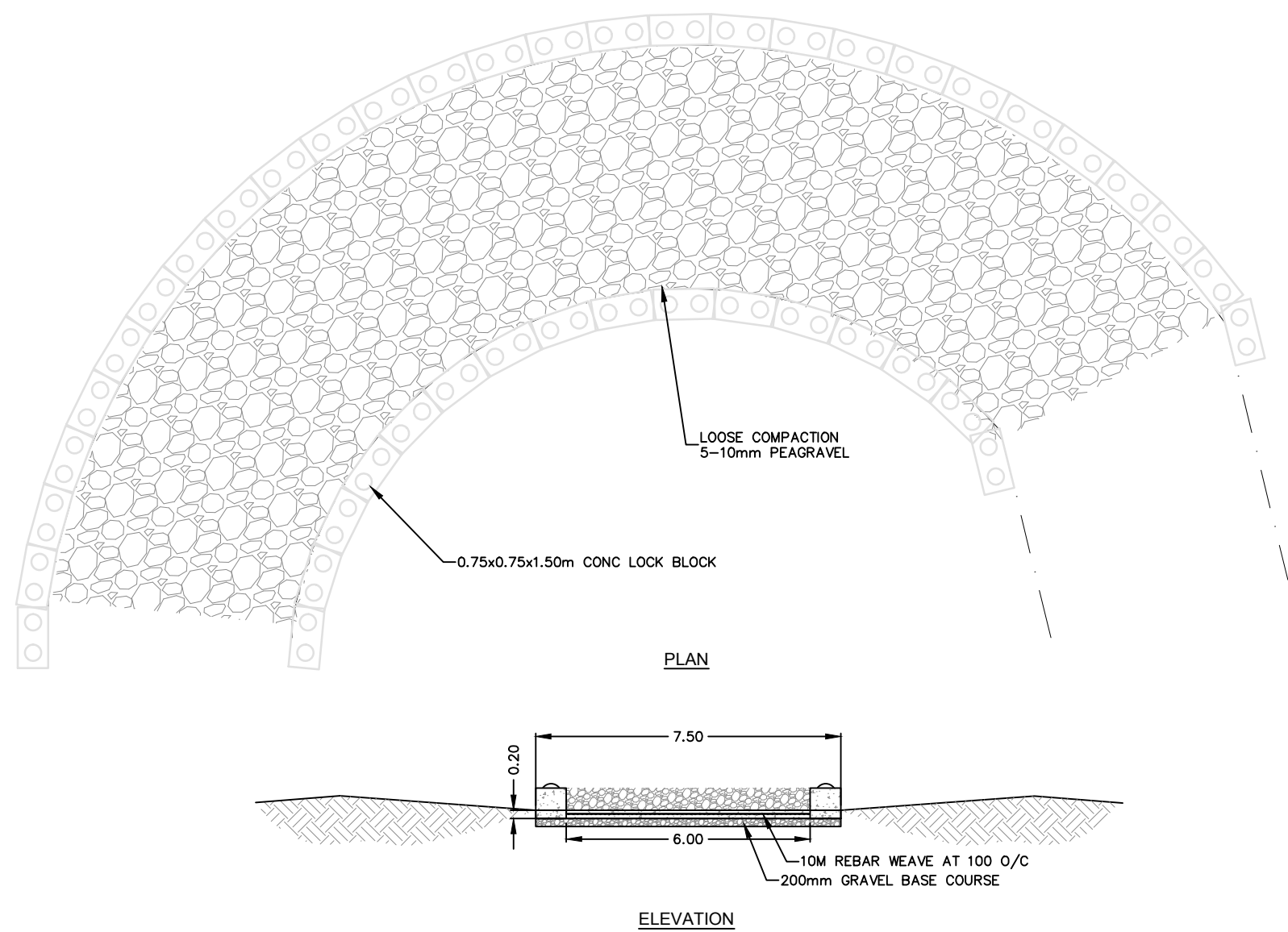
Revision no./  
La Révision  
no.  
2.0



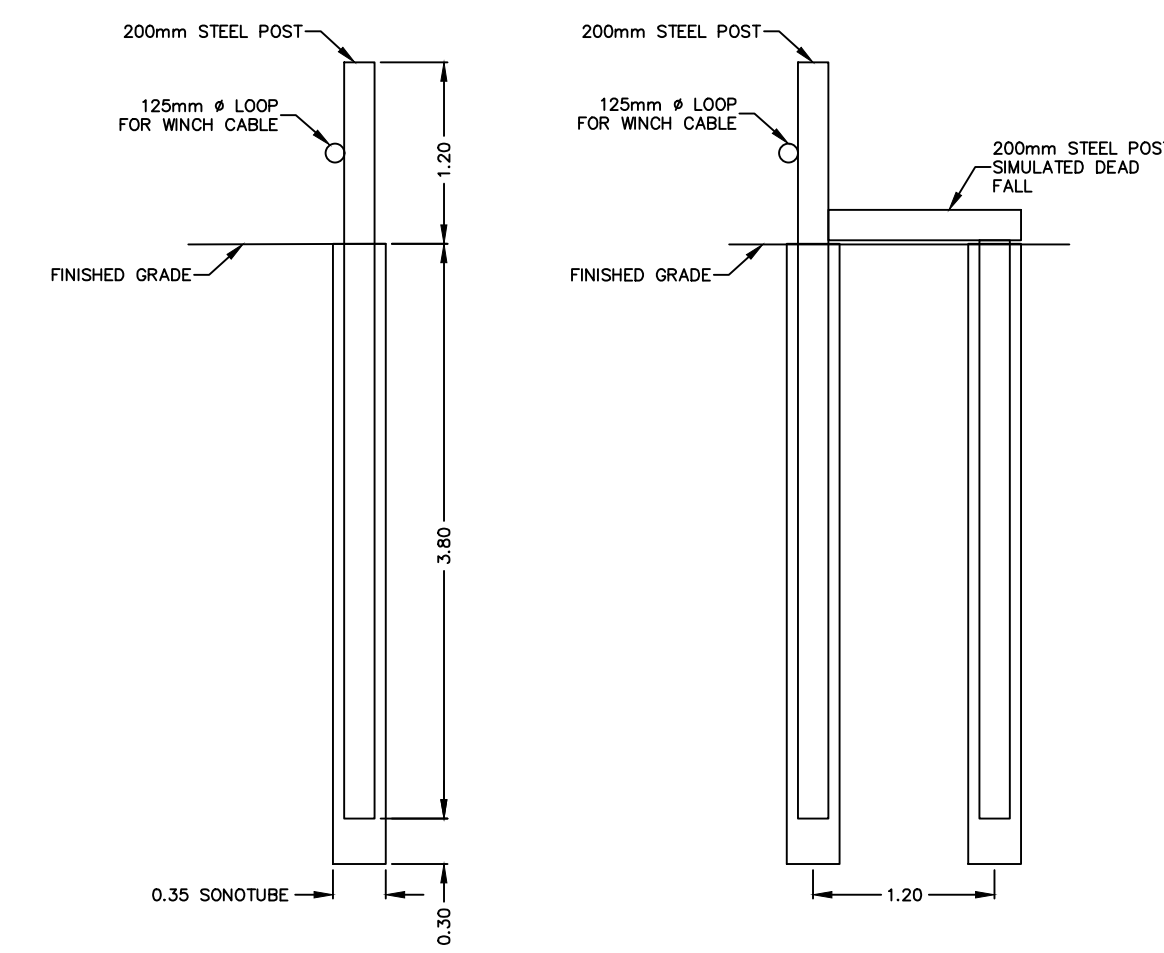
CONCRETE "MUD" PAD  
SCALE 1:100



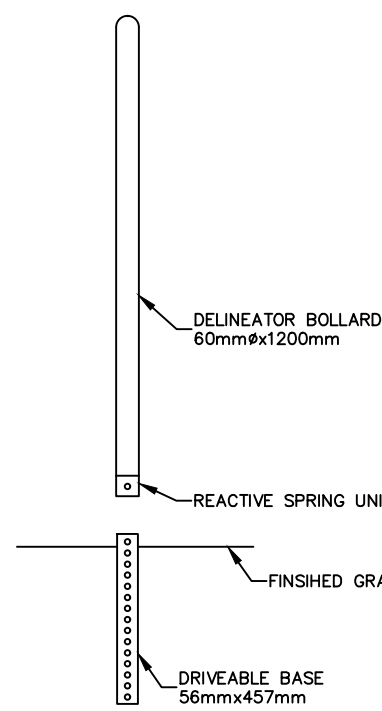
ANGLED BERMS  
SCALE 1:100



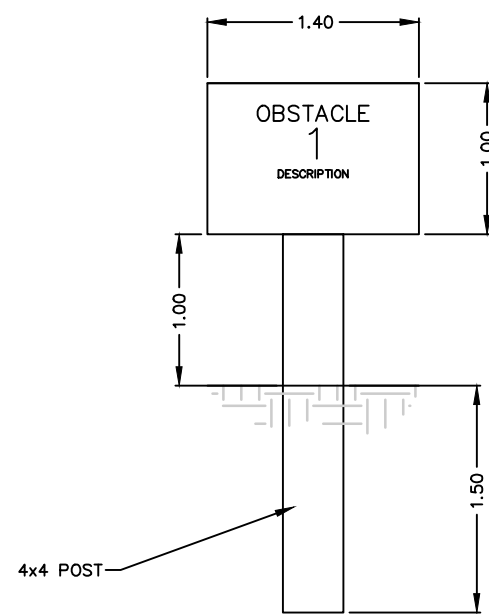
PEA GRAVEL PIT  
SCALE 1:150



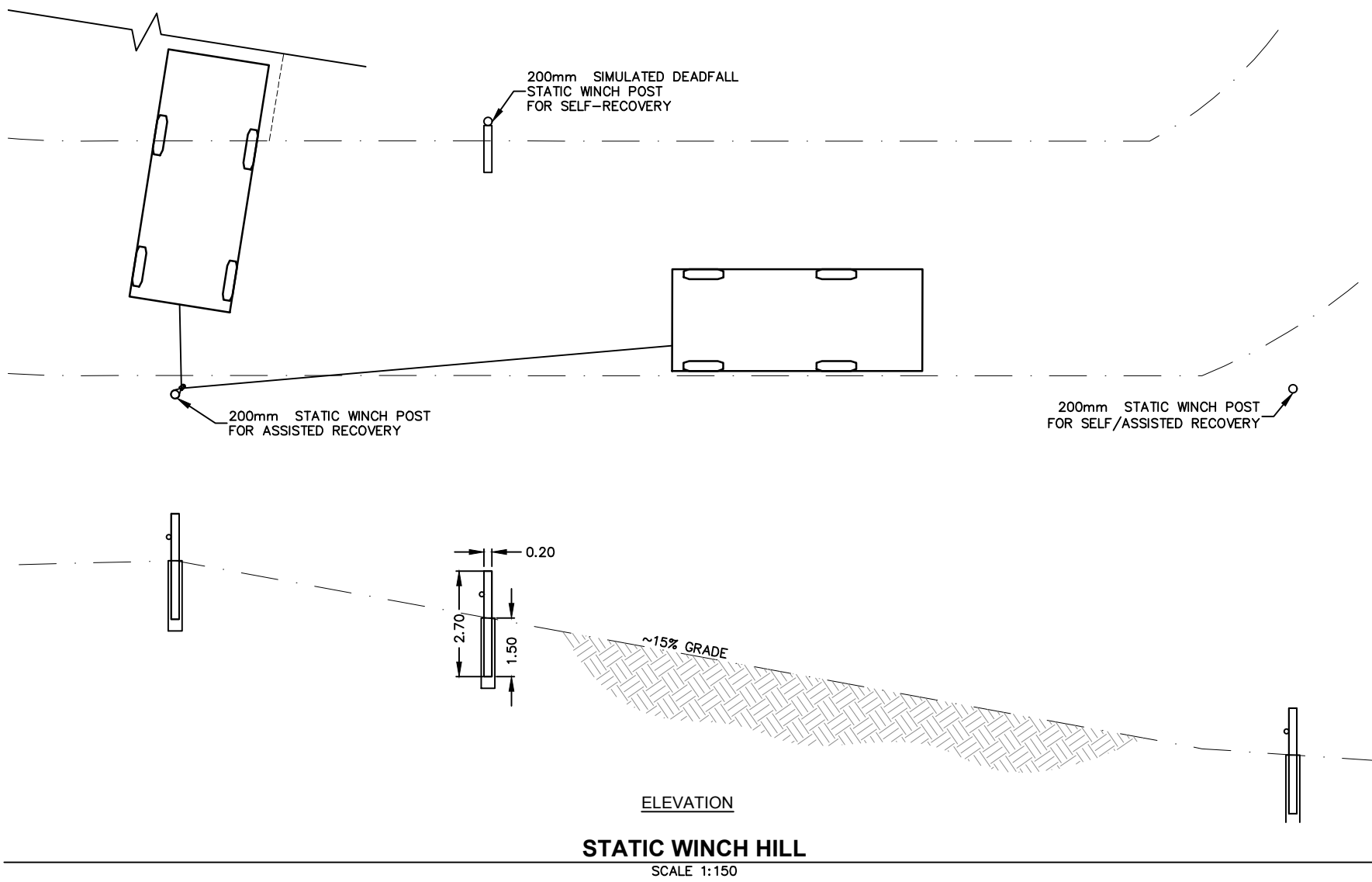
WINCH POST DETAIL  
SCALE 1:50



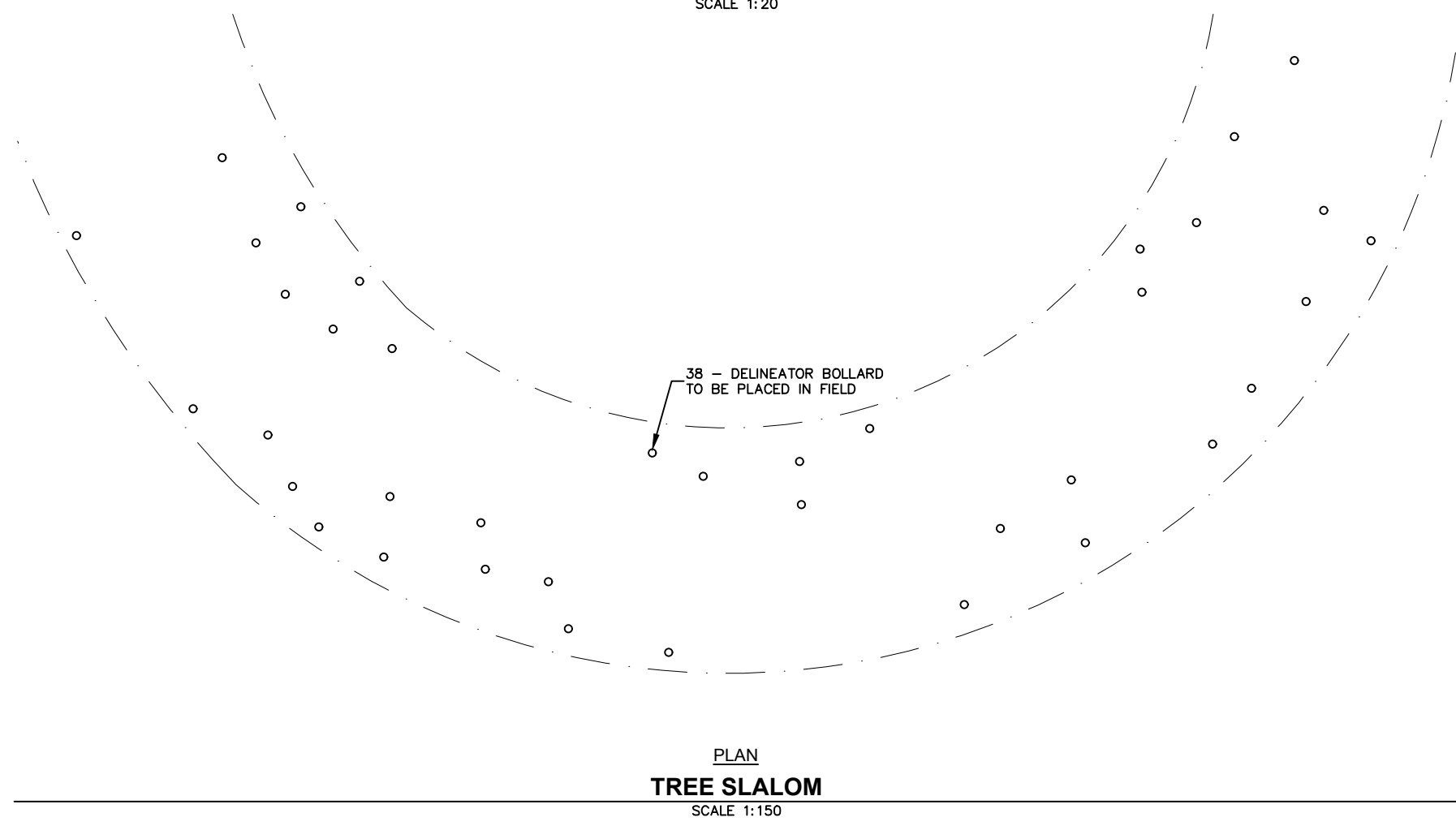
DELINEATOR BOLLARD DETAIL  
SCALE 1:20



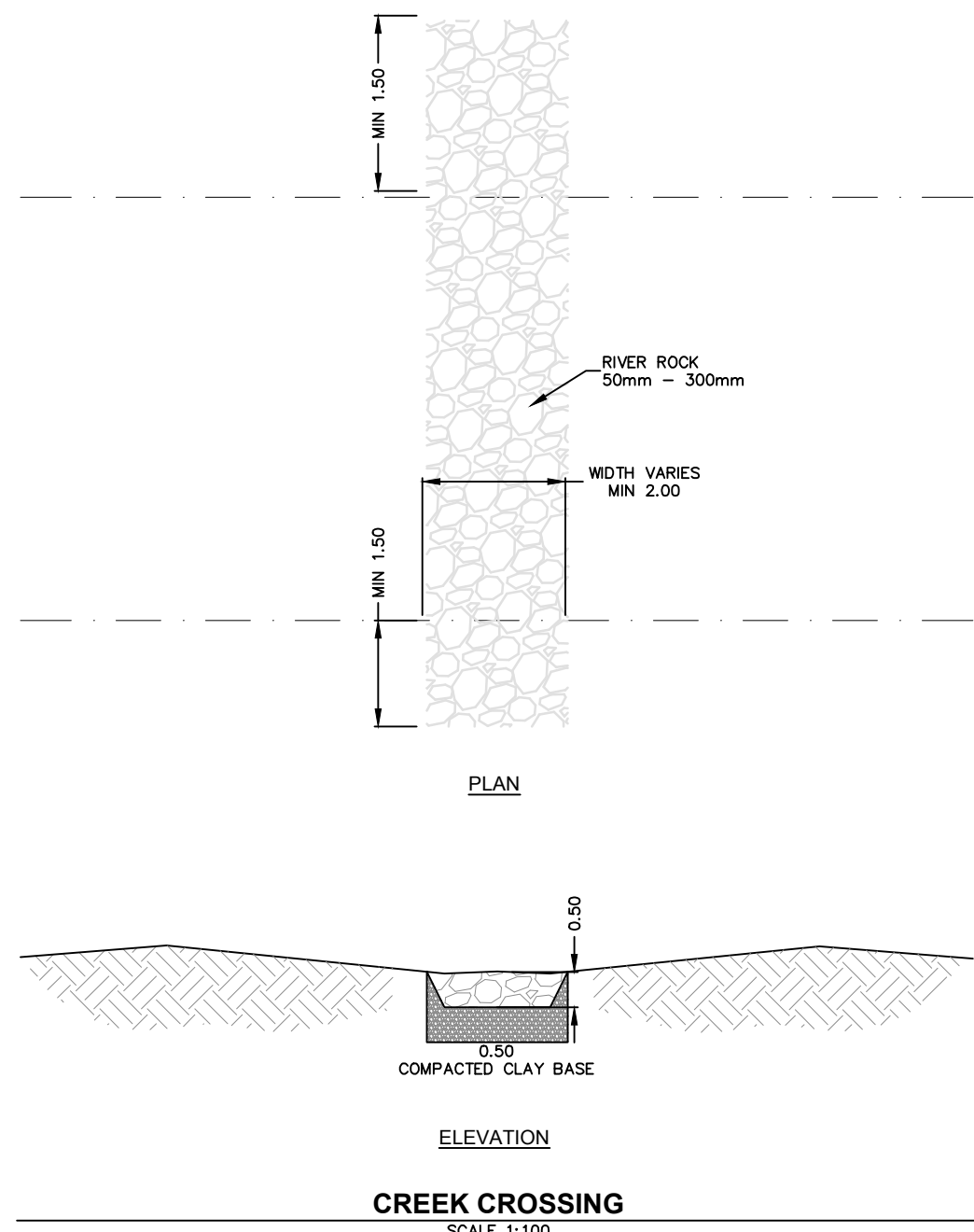
OBSTACLE SIGN POST DETAIL  
SCALE 1:50



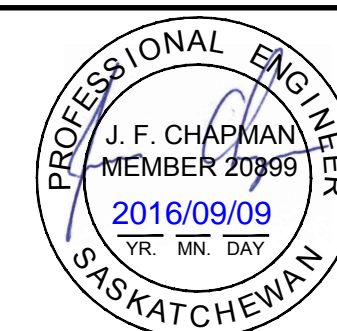
STATIC WINCH HILL  
SCALE 1:150



TREE SLOAM  
SCALE 1:150



CREEK CROSSING  
SCALE 1:100



----	----	----
----	----	----
----	----	----
----	----	----
2	ISSUED FOR TENDER	2016-09-09
1	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08

Revision/	Description/Description	Date/Date
Client/client		

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK DETAILS

Approved by/Approuvé par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSC  
LIONEL OATWAY

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

Client/client

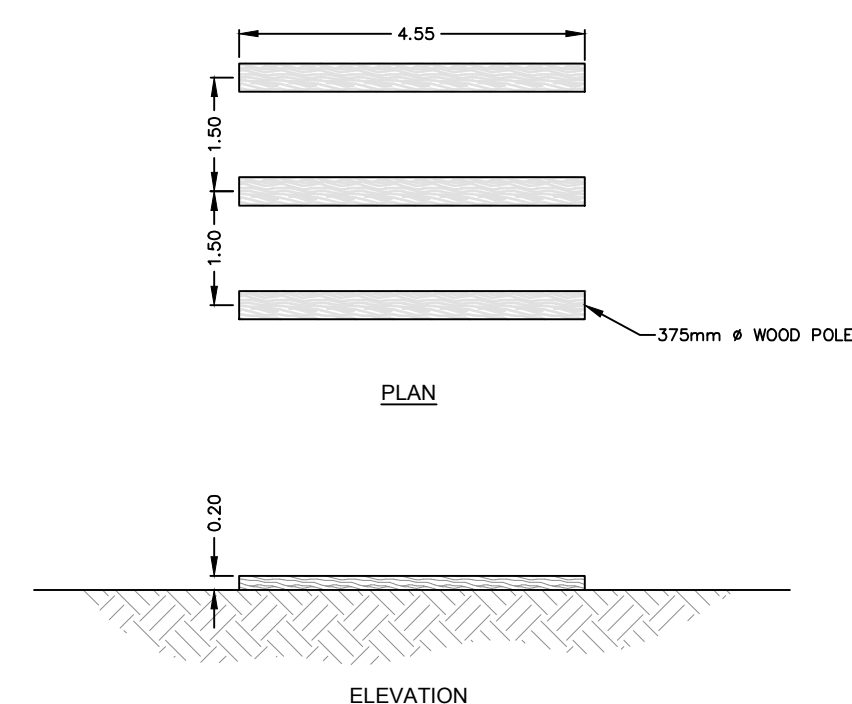
Drawing title/Titre du dessin

## DETAILS COURSE ELEMENTS

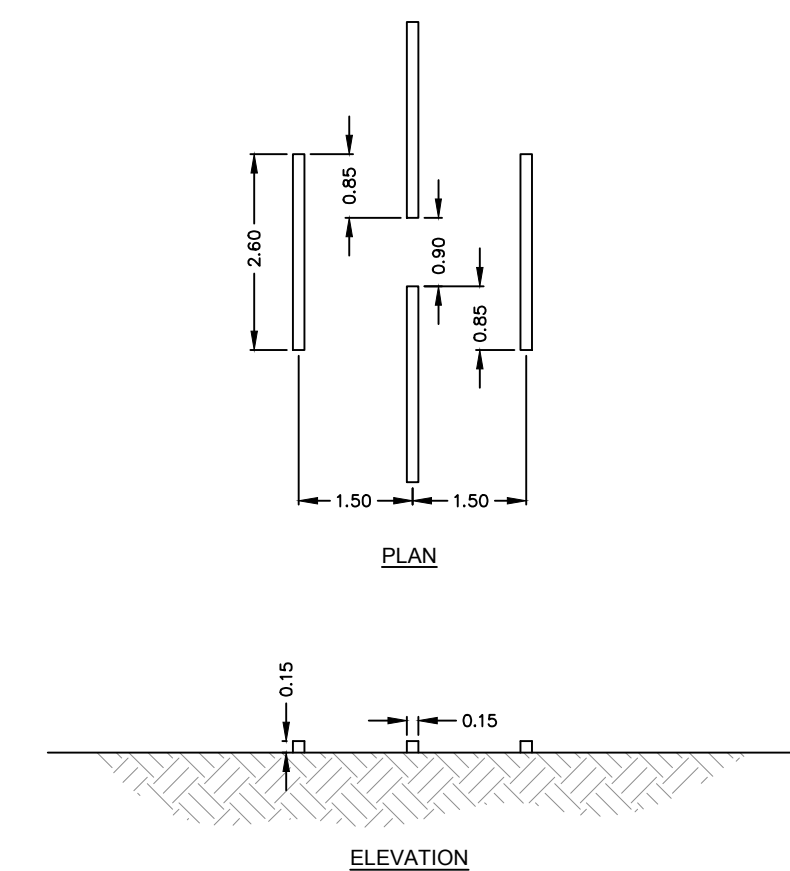
Project No./No. du  
projet  
3104102

Sheet/ Feuille  
DET-02  
20 OF 29

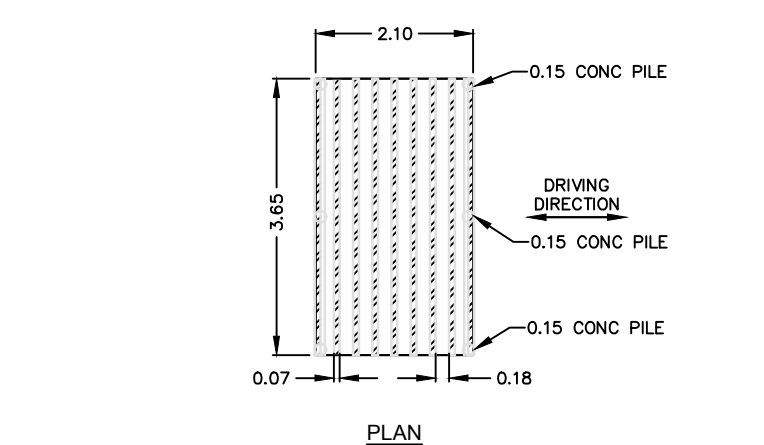
Revision no./  
La Révision  
no.  
2.0



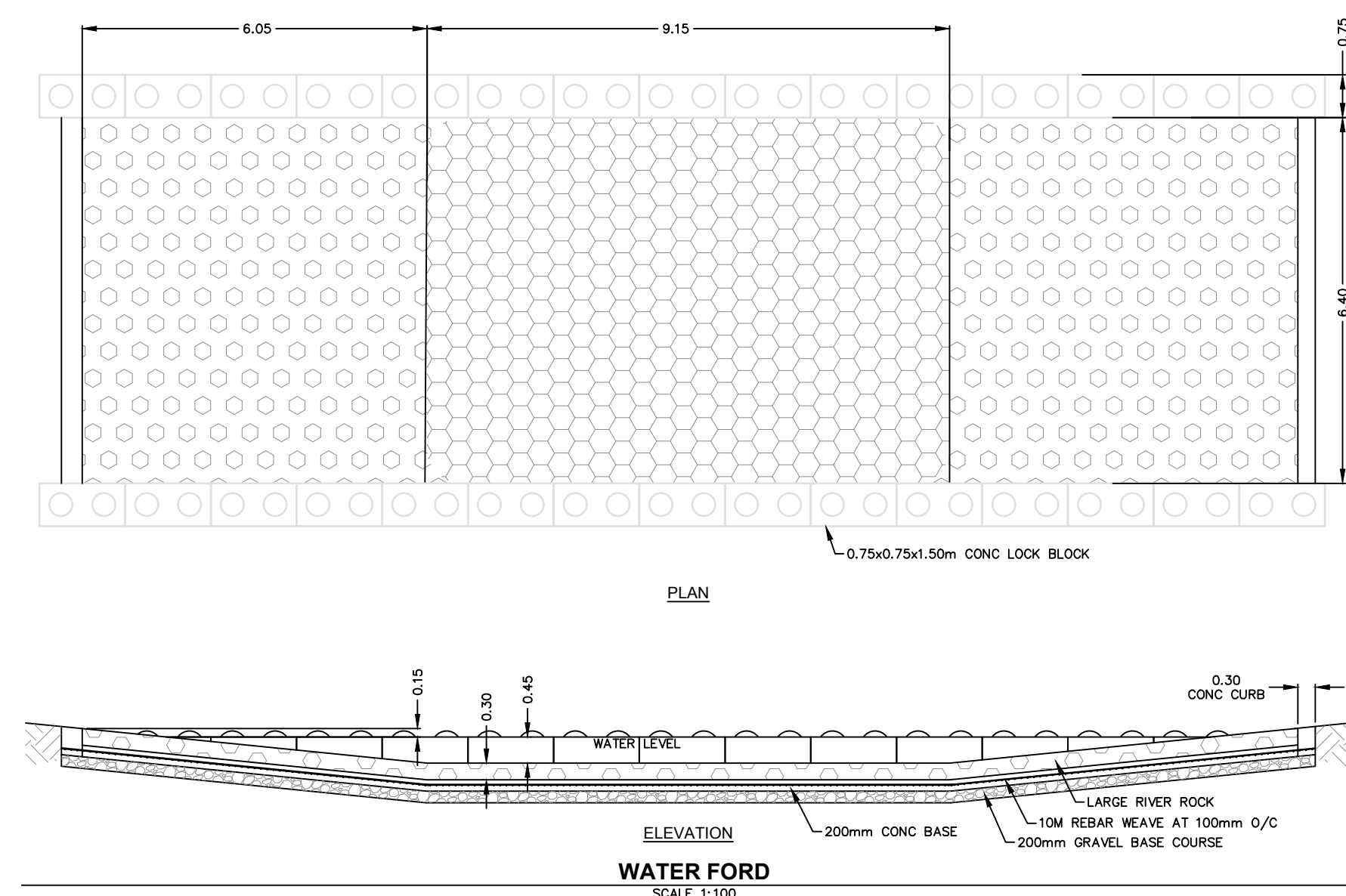
PARALLEL TELEPHONE POLES  
SCALE 1:100



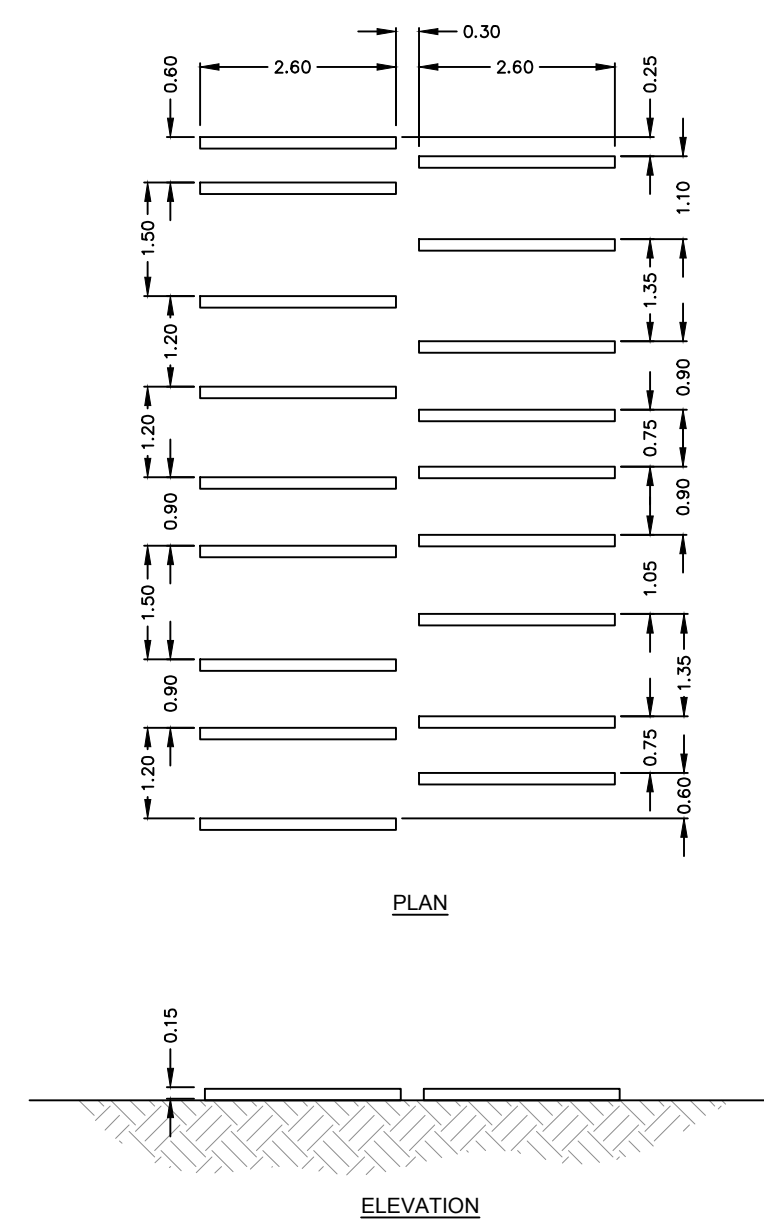
PARALLEL OFFSET RAILROAD TIES  
SCALE 1:100



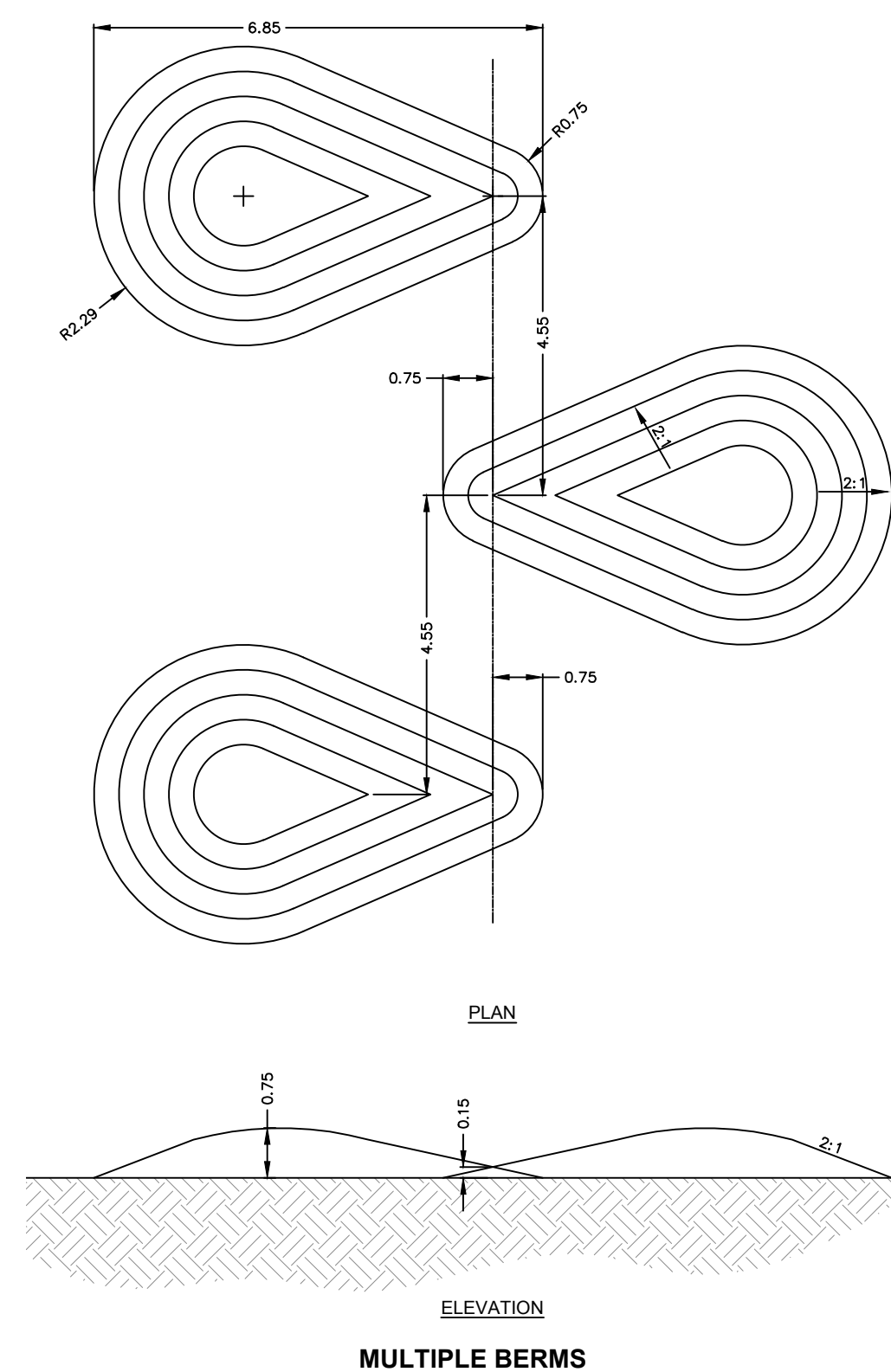
TEXAS GATE  
SCALE 1:100



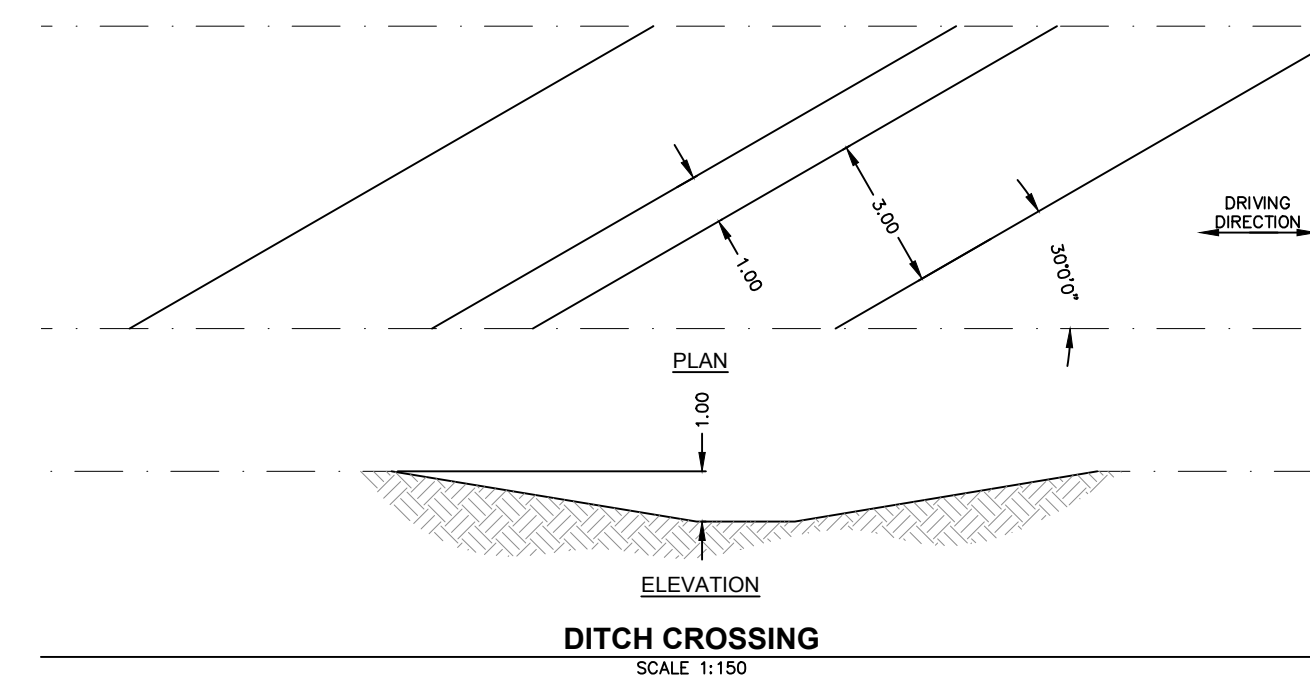
WATER FORD  
SCALE 1:100



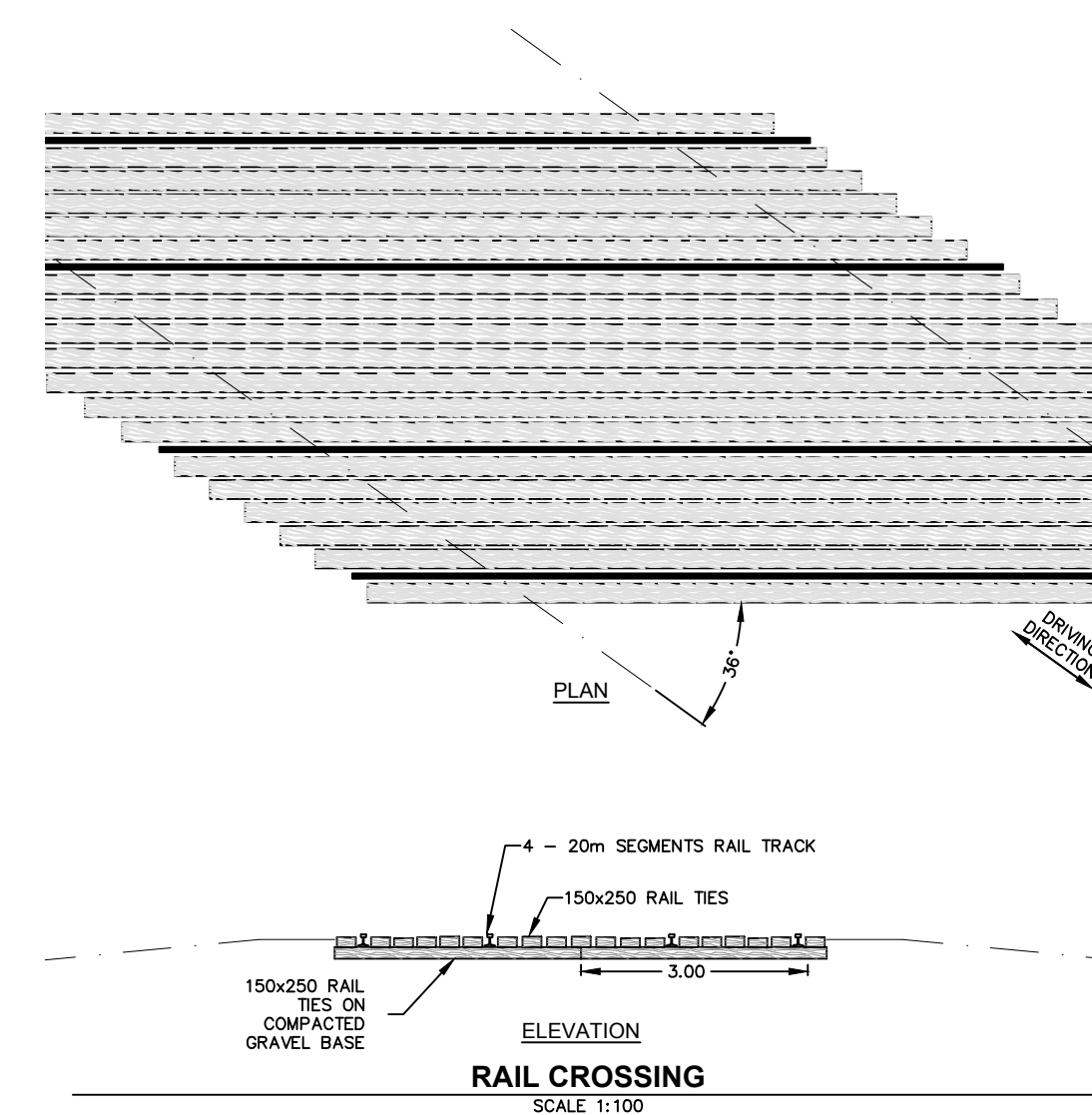
STAGGERED RAILROAD TIES  
SCALE 1:100



MULTIPLE BERMS  
SCALE 1:100



DITCH CROSSING  
SCALE 1:150



RAIL CROSSING  
SCALE 1:100





CONTOURS SHOWN AT 0.1m INTERVALS



Revision/ Revision	Description/Description	Date/Date
-----------------------	-------------------------	-----------

Client/client

**1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8**

Project title/Titre du projet

## NEW DRIVER TRAINING TRACK DETAILS

Approved by/Approuve par  
JFC

Designed by/Concept par  
TST

Drawn by/Dessiné par  
TST

**PWGSC Project Manager/Administrateur de Projets TPSGC**  
**LIONEL OATWAY**

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

Client/client

Drawing title/Titre du dessin

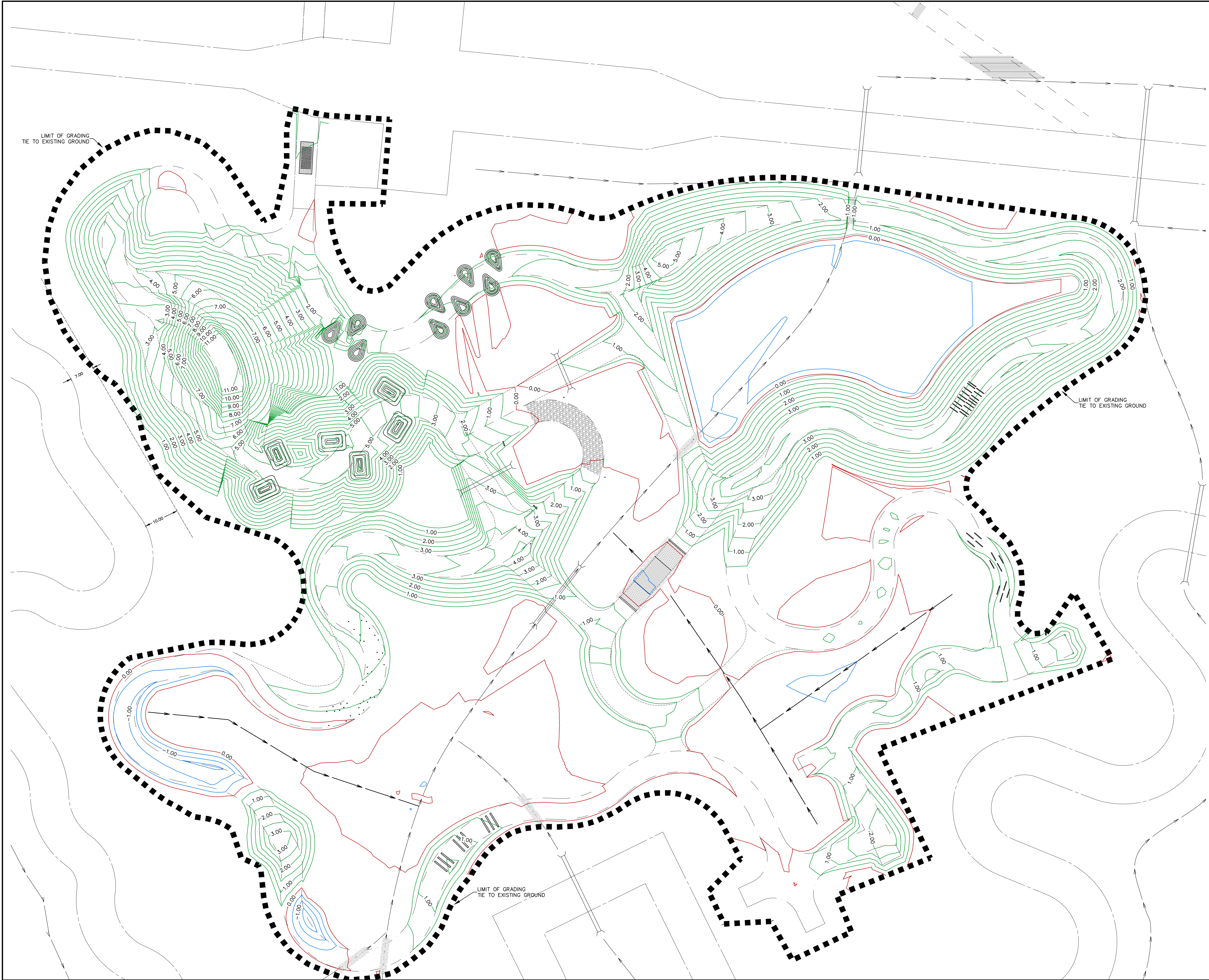
## DETAILS


### COURSE ELEMENTS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
3104102	DET-03	2.0
	21 OF 29	









Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

LEGEND

CUT/FILL CONTOURS ARE CALCULATED FROM STRIPPED  
GROUND (OG-0.30) SURFACE TO FINISHED GRADE.

-0.50

CUT CONTOUR

0.00

ZERO CUT/FILL CONTOUR

0.50

FILL CONTOUR

VOLUME

BASE SURFACE STRIPPED OG (0.30)  
COMPARISON SURFACE FG

CUT FACTOR 1.00

FILL FACTOR 1.15

Cut volume (adjusted) 4081 Cu. M.

Fill volume (adjusted) 57992 Cu. M.

Net volume (adjusted) 53911 Cu. M. <Fill>

Cut volume (unadjusted) 4081 Cu. M.


Fill volume (unadjusted) 50428 Cu. M.

Net volume (unadjusted) 46347 Cu. M. <Fill>

STRIPPING AREA 32,800 m<sup>2</sup>

STRIPPING VOLUME 9,844m<sup>3</sup>

PROFESSIONAL ENGINEER  
J. F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR. MN. DAY  
SASKATCHEWAN

Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Herdfield Limited  
Number C0019  
Permission to Consult held by:  
Discipline: CIVIL  
Ssk. Reg. No. 20899  
Signature: 

1	ISSUED FOR TENDER	2016-09-09
2	ISSUED FOR CLASS-B COST ESTIMATE	2014-03-08
Revision/	Description/Description	Date/Date
Revision		

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

NEW DRIVER TRAINING TRACK  
4X4 COURSE

Approved by/Approuvé par  
JFC

Designed by/Concepté par  
TST

Drawn by/Dessiné par  
TST

PWGSC Project Manager/Administrateur de Projets TPSCG  
LIONEL OATWAY

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

Client/client

Drawing title/Titre du dessin

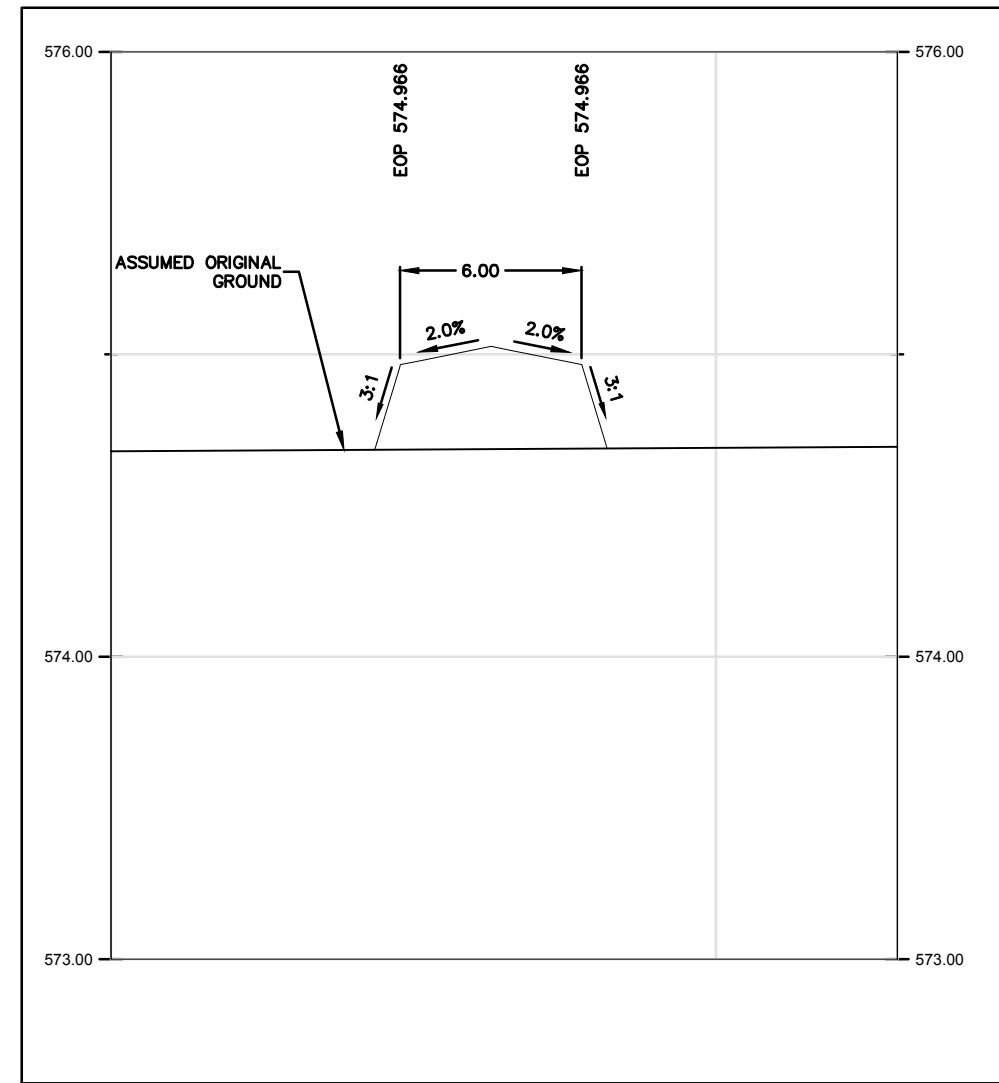
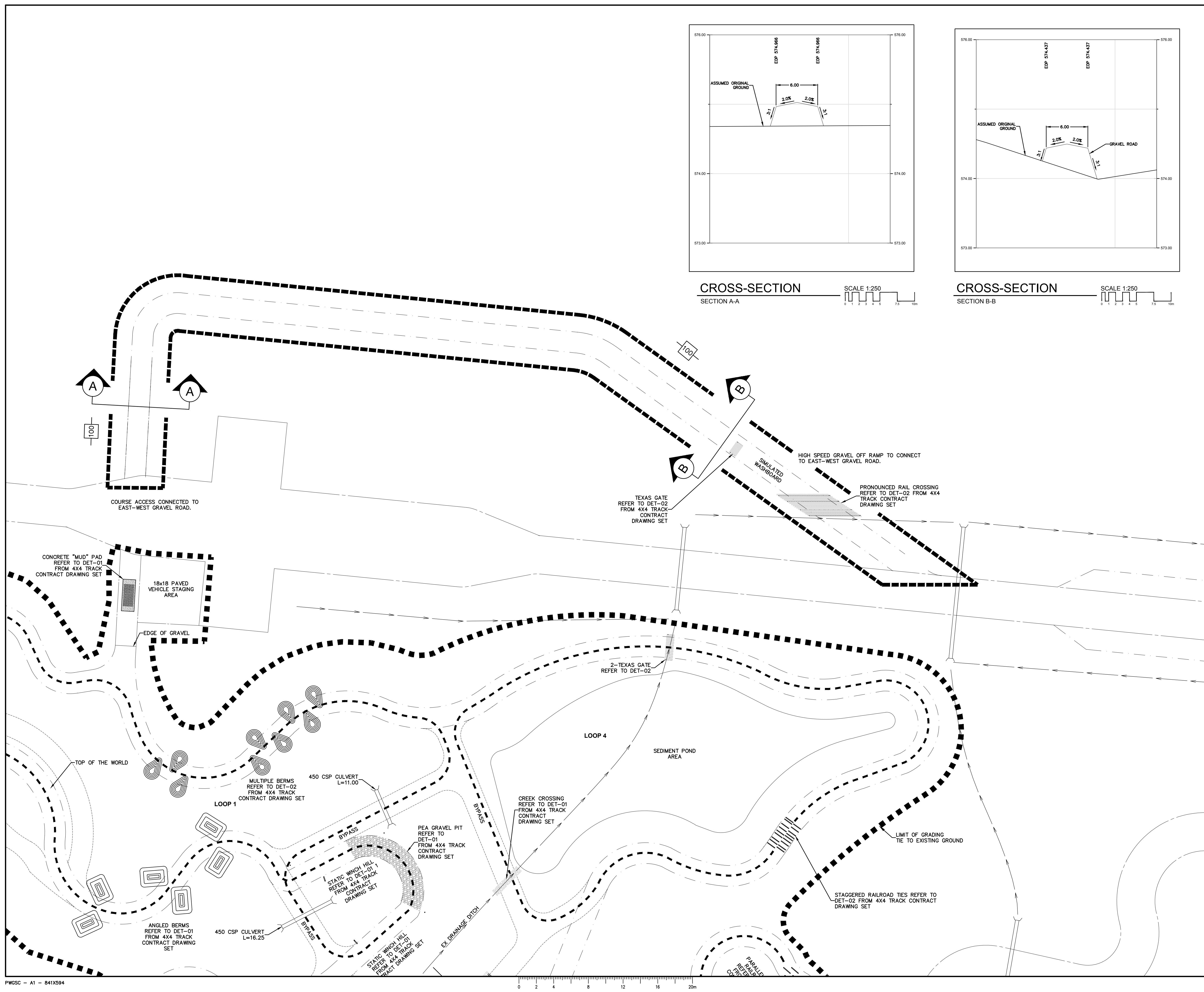
CUT FILL PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
3104102	CF-01	2.0
	23 OF 29	

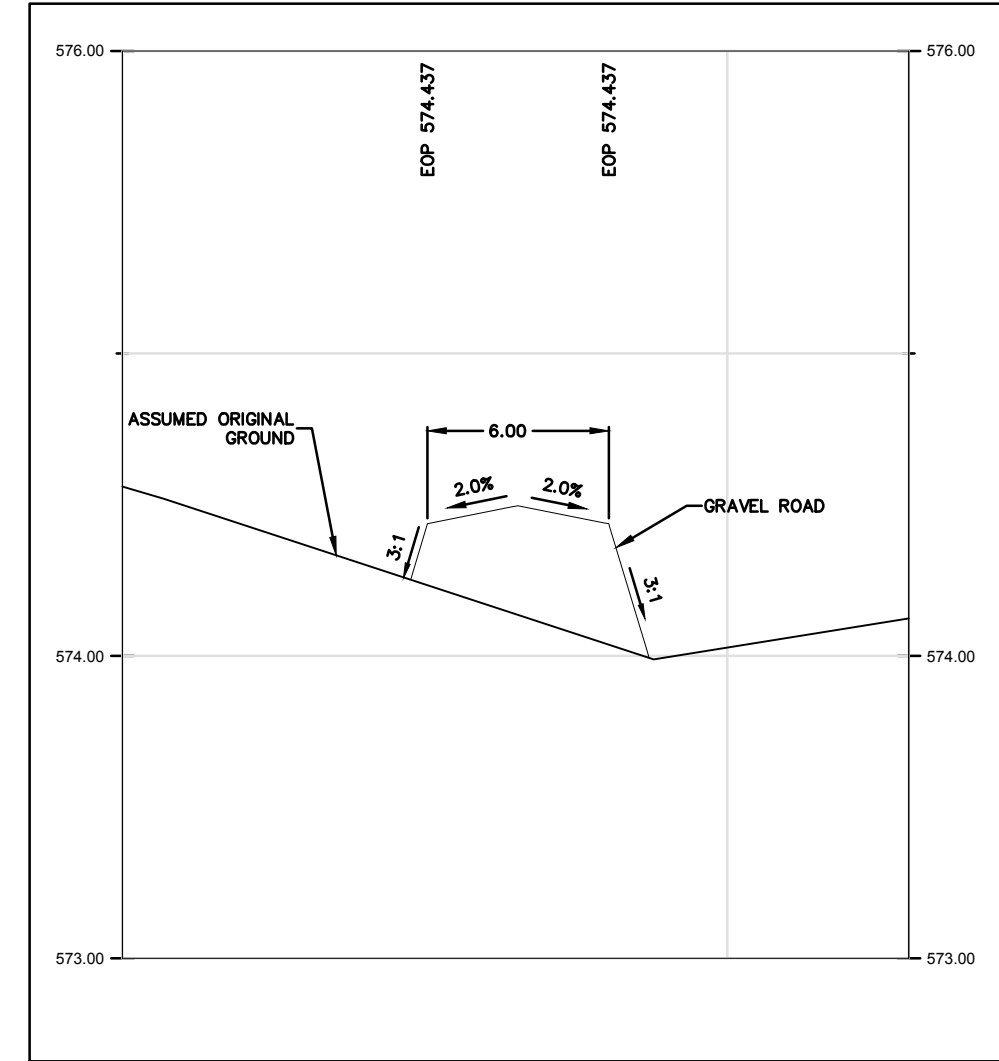
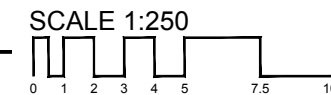
ALGN-01 4X4 TRACK ALIGNMENT



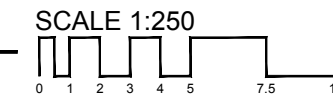
N:\P\01\016\102\07 Design\01 Drawings\05 Sheets\Gravel Road\SF-01 SURFACE FEATURES.dwg    Last Saved: 6/23/2016 5:02 PM    by: cpriellabonorgeaz    Plotted: 9/9/2016 2:56 PM    by: Carlos Prieta Bolorquez



CROSS-SECTION  
SECTION A-A



CROSS-SECTION  
SECTION B-B



Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

LEGEND

302

BLOCK PROFILE SHEET NUMBER

CONSTRUCTION BOUNDARY

LIP OF GUTTER

EDGE OF PAVEMENT (NO CURB)

COLLECTOR STANDARD PAVEMENT

CONCRETE SWALE

GRASSED SWALE / DITCH

SWALE / DITCH HIGH POINT

CONCRETE SPLASH PAD

STORM OUTFALL WITH RIP RAP

CULVERT

Association of Professional Engineers & Geoscientists  
of Saskatchewan

CERTIFICATE OF AUTHORIZATION  
Morrison Hershfield Limited.  
Number: C0019  
Permission to Consult held by:  
Discipline: CIVIL    Sk. Reg. No.: 20899    Signature:

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2016-08-09

Client/client

PWGSC

1800 11th Avenue, Suite 201  
Regina, SK, S4P 0H8

Project title/Titre du projet

NEW DRIVER TRAINING TRACK  
GRAVEL ROAD

Approved by/Approuvé par

JFC

Designed by/Concept par

CPB

Drawn by/Dessiné par

LIONEL OATWAY

PWGSC Project Manager/Administrateur de Projets TP5GC

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TP5GC

Client/client

Drawing title/Titre du dessin

SURFACE FEATURES

Project No./No. du projet

3104102

Sheet/Feuille

SF-01

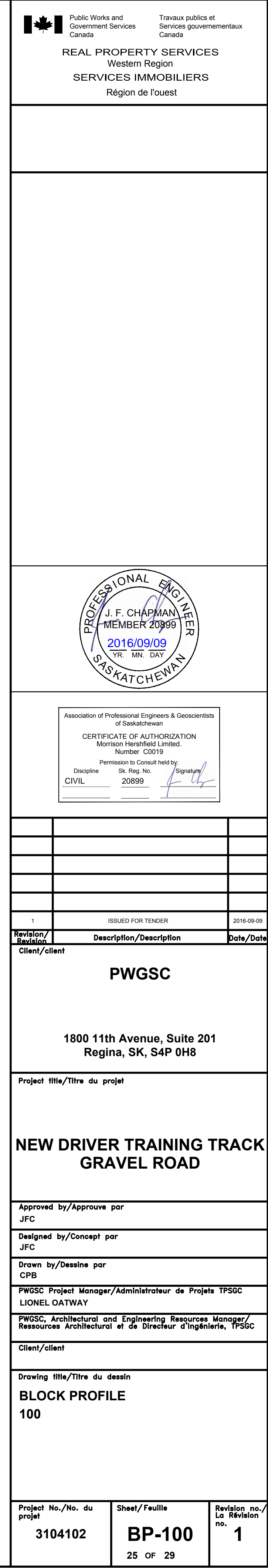
24 OF 29

Revision no./  
La Révision  
no.

1

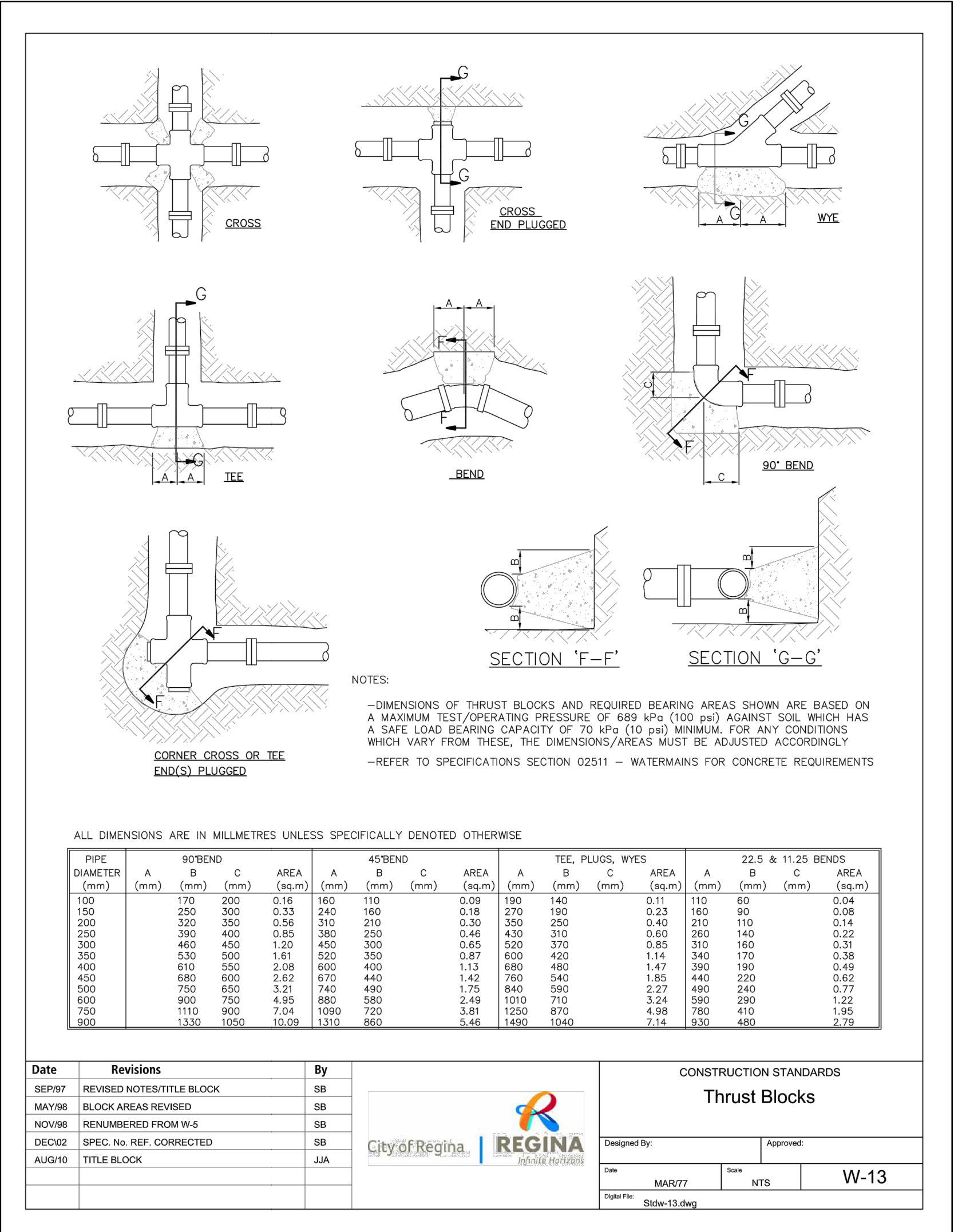
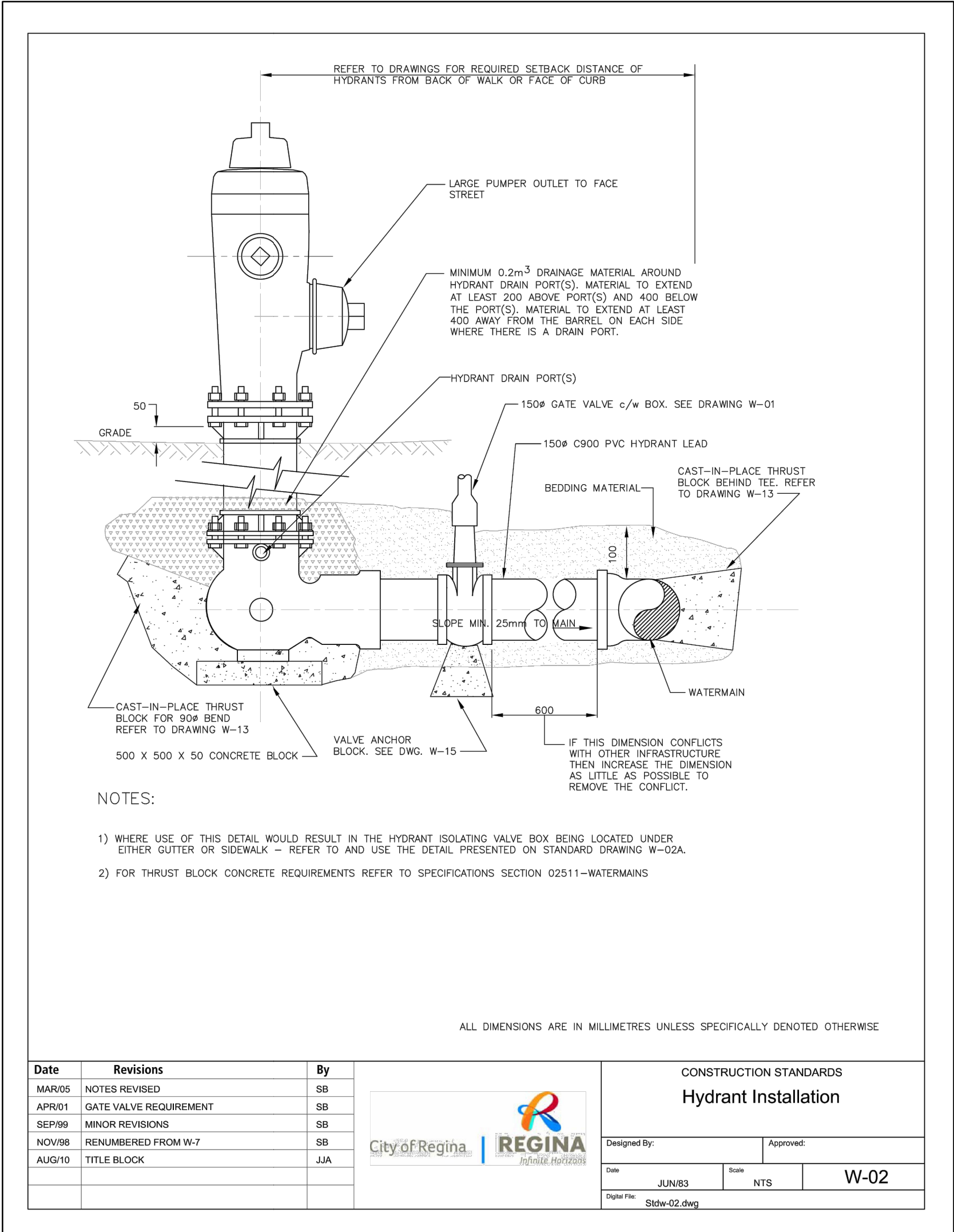









N:\Proj\310410207 Drawings\05 Sheets\Gravel Road\WTR-1 WATERWORKS.dwg    Plotted: 9/9/2016 3:03 PM by Carlos Pirela Bohorquez    Last Saved: 9/9/2016 1:50 PM by cpielaohorquez





Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

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

LEGEND

302

BLOCK PROFILE SHEET NUMBER

---

CONSTRUCTION BOUNDARY

---

EXISTING/PROPOSED WATER MAIN AND VALVE

---

FUTURE WATER MAIN AND VALVE

⊙

CHECK VALVE

+

CROSS

+

TEE


+

PLUG

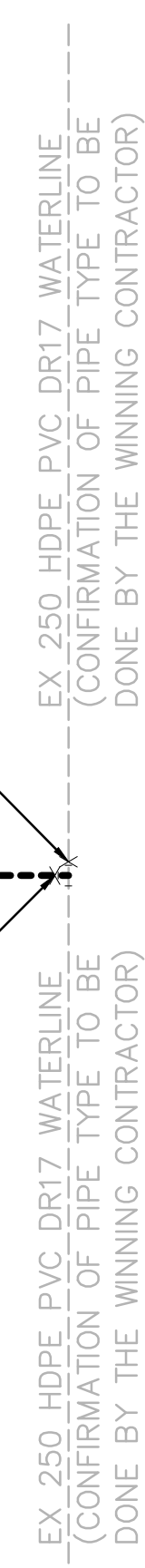
PROFESSIONAL ENGINEER  
J.F. CHAPMAN  
MEMBER 20899  
2016/09/09  
YR. MN. DAY  
SASKATCHEWAN

Association of Professional Engineers & Geoscientists  
of Saskatchewan  
CERTIFICATE OF AUTHORIZATION  
Morrison Hershfield Limited.  
Number: C0019  
Permission to Consult held by:  
Discipline: CIVIL  
Sk. Reg. No.: 20899  
Signature: [Signature]

1	ISSUED FOR TENDER	2016-09-09
Revision/	Description/Description	Date/Date
Client/client	PWGSC	
	1800 11th Avenue, Suite 201 Regina, SASK, S4P 0H8	
Project title/Titre du projet	NEW DRIVER TRAINING TRACK GRAVEL ROAD	
Approved by/Approuvé par	JFC	
Designed by/Concept par	JFC	
Drawn by/Dessiné par	CPB	
PWGSC Project Manager/Administrateur de Projets TPSGC	LIONEL OATWAY	
PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC		
Client/client		
Drawing title/Titre du dessin	WATERWORKS	
Project No./No. du projet	3104102	
Sheet/Feuille	WTR - 01	
Revision no./La Révision no.	26 OF 29	1







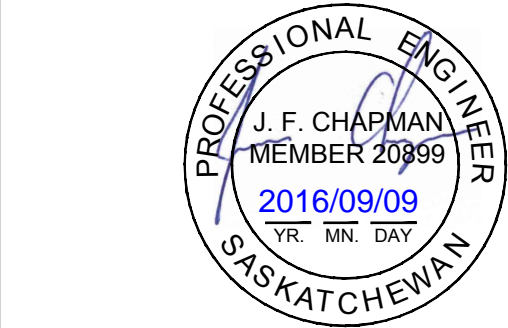
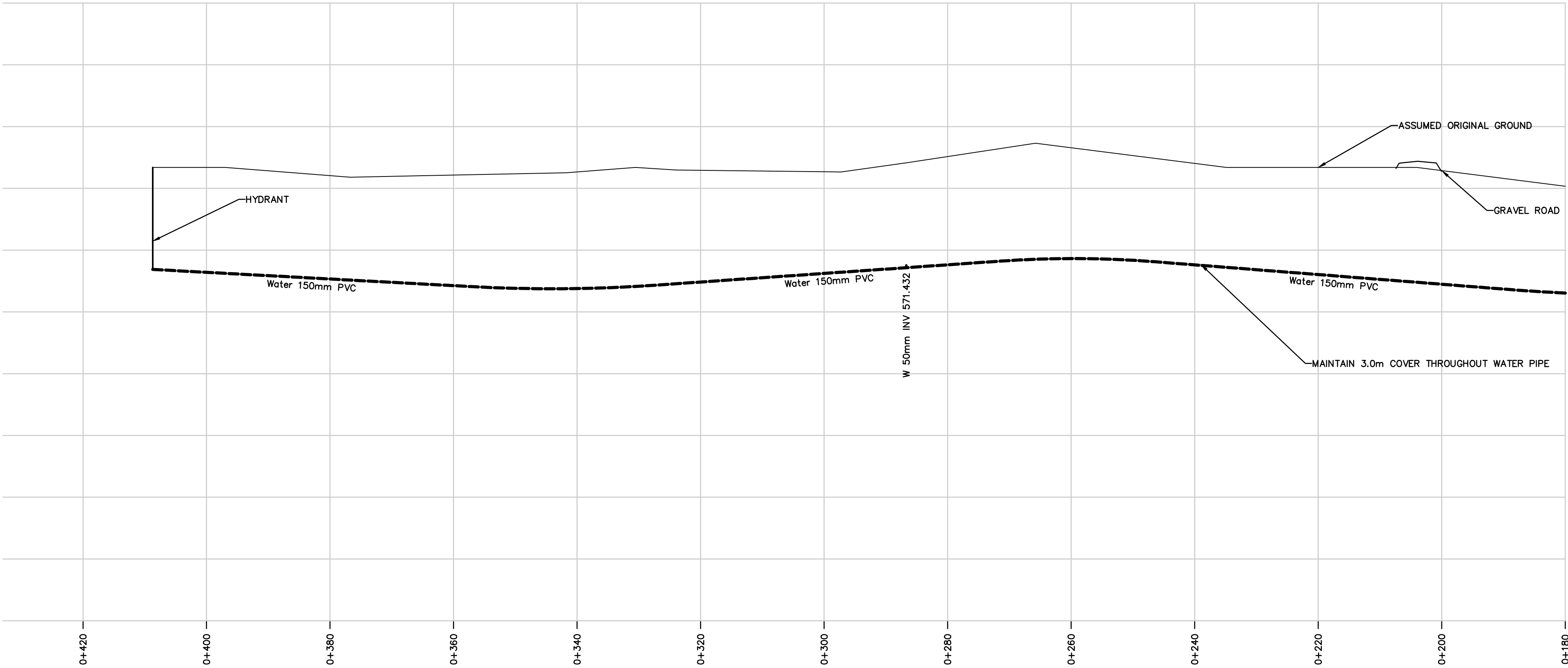
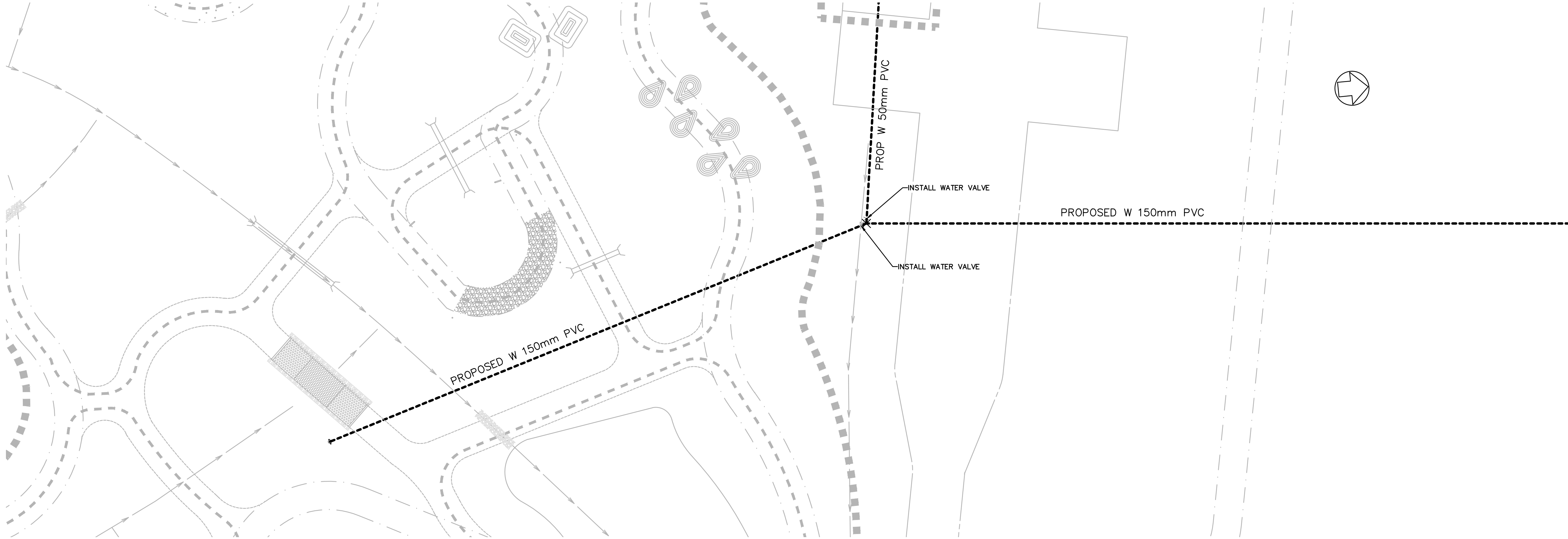
Association of Professional Engineers & Geoscientists  
of Saskatchewan

**CERTIFICATE OF AUTHORIZATION**  
Morrison Hershfield Limited.  
Number C0019

Permission to Consult held by:

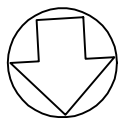
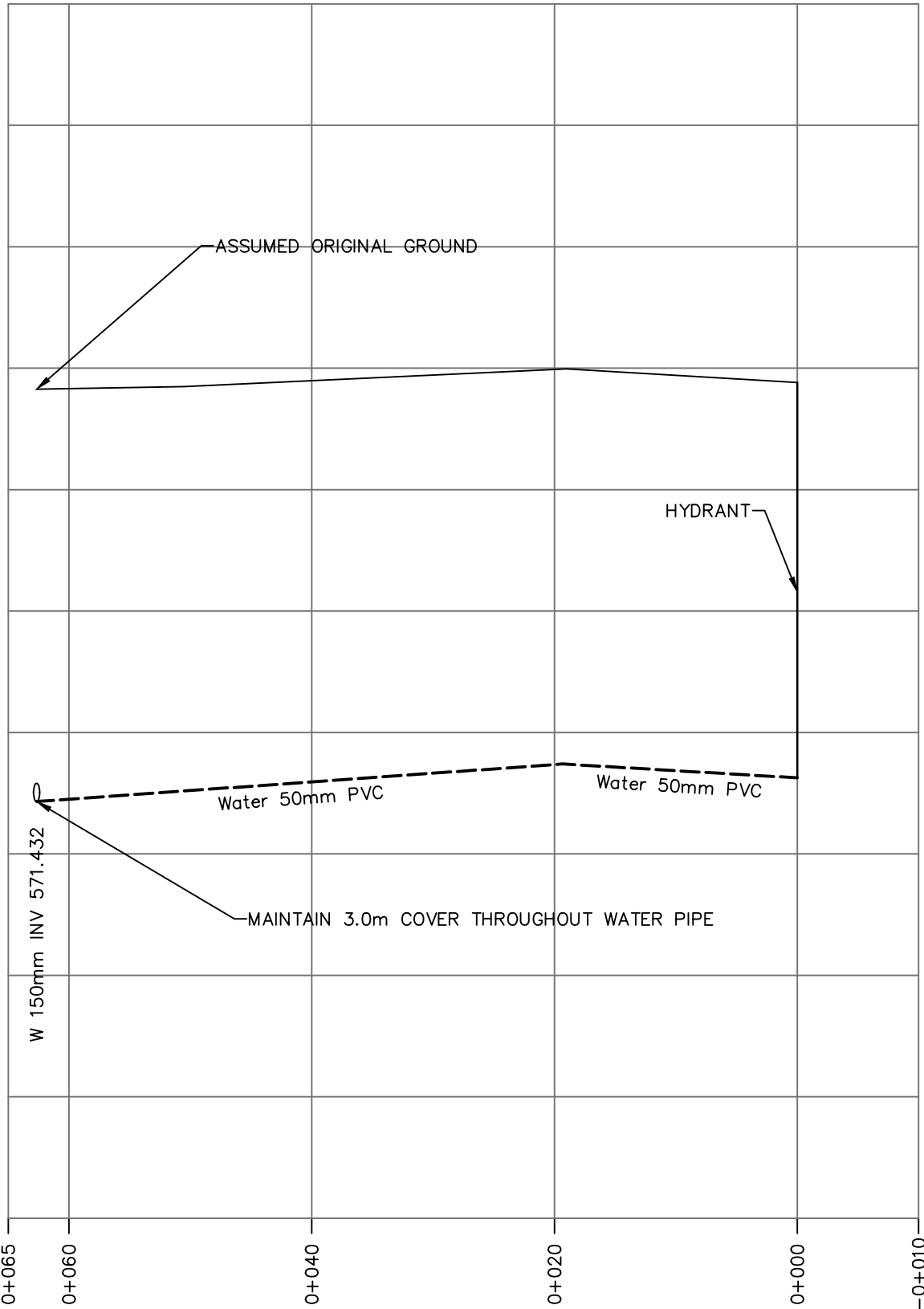
Discipline	Sk. Reg. No.	Signature
CIVIL	20899	
_____	_____	_____
_____	_____	_____

PWGSC - A1 - 841X594



1	ISSUED FOR TENDER	2016-09-09
Revision/ Revision	Description/Description	Date/Date
Client/client		
	<b>PWGSC</b>	
	1800 11th Avenue, Suite 201 Regina, SASK, S4P 0H8	
	Project title/Titre du projet	
	<b>NEW DRIVER TRAINING TRACK GRAVEL ROAD</b>	
	Approved by/Approuve par JFC	
	Designed by/Concept par JFC	
	Drawn by/Dessine par CPB	
	PWGSC Project Manager/Administrateur de Projets TPSCG LIONEL OATWAY	
	PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSCG	
	Client/client	
	Drawing title/Titre du dessin	
	<b>WATER - 150mm PROFILE</b>	
Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
3104102	<b>WTR-03</b> 28 OF 29	<b>1</b>





Association of Professional Engineers & Geoscientists  
of Saskatchewan

CERTIFICATE OF AUTHORIZATION  
Morrison Hershfield Limited.  
Number C0019

Permission to Consult held by:  
Discipline Sk. Reg. No. Signature  
CIVIL 20899

1	ISSUED FOR TENDER	2016-08-09
Revision/ Revision	Description/Description	Date/Date
Client/client		
PWGSC		
1800 11th Avenue, Suite 201 Regina, SASK, S4P 0H8		
Project title/Titre du projet		
NEW DRIVER TRAINING TRACK GRAVEL ROAD		
Approved by/Approuve par JFC		
Designed by/Concept par JFC		
Drawn by/Dessine par CPB		
PWGSC Project Manager/Administrateur de Projets TPSCG LIONEL OATWAY		
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSCG		
Client/client		
Drawing title/Titre du dessin		
WATER - 50mm PROFILE		
Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
3104102	WTR-04 29 OF 29	1

