



Public Works and Government Services Canada
#219-800 Burrard Street
Vancouver, BC. V6Z 0B9
Tel. 604 775 6678

Kwikwexwelhp Healing Village
Access Road and Culvert Upgrades
CSC Kwikwexwhelp Healing Village, Harrison Mills, BC

Drawing Number	Title of Drawing
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5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2018/03/05
2	90% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/21
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06
Revision/	Description/Description	Date/Date

Revision	Description/Description	Date/Date
Client/client		

**CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES**

Project title/Titre du projet

**ACCESS ROAD
AND
CULVERT UPGRADES**

Consultant Signature Only
WEDLER ENGINEERING LLP
Designed by/Concept par EAG
Drawn by/Dessine par TJD
PWOSC Project Manager/Administrateur de Projets TPSOC TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services

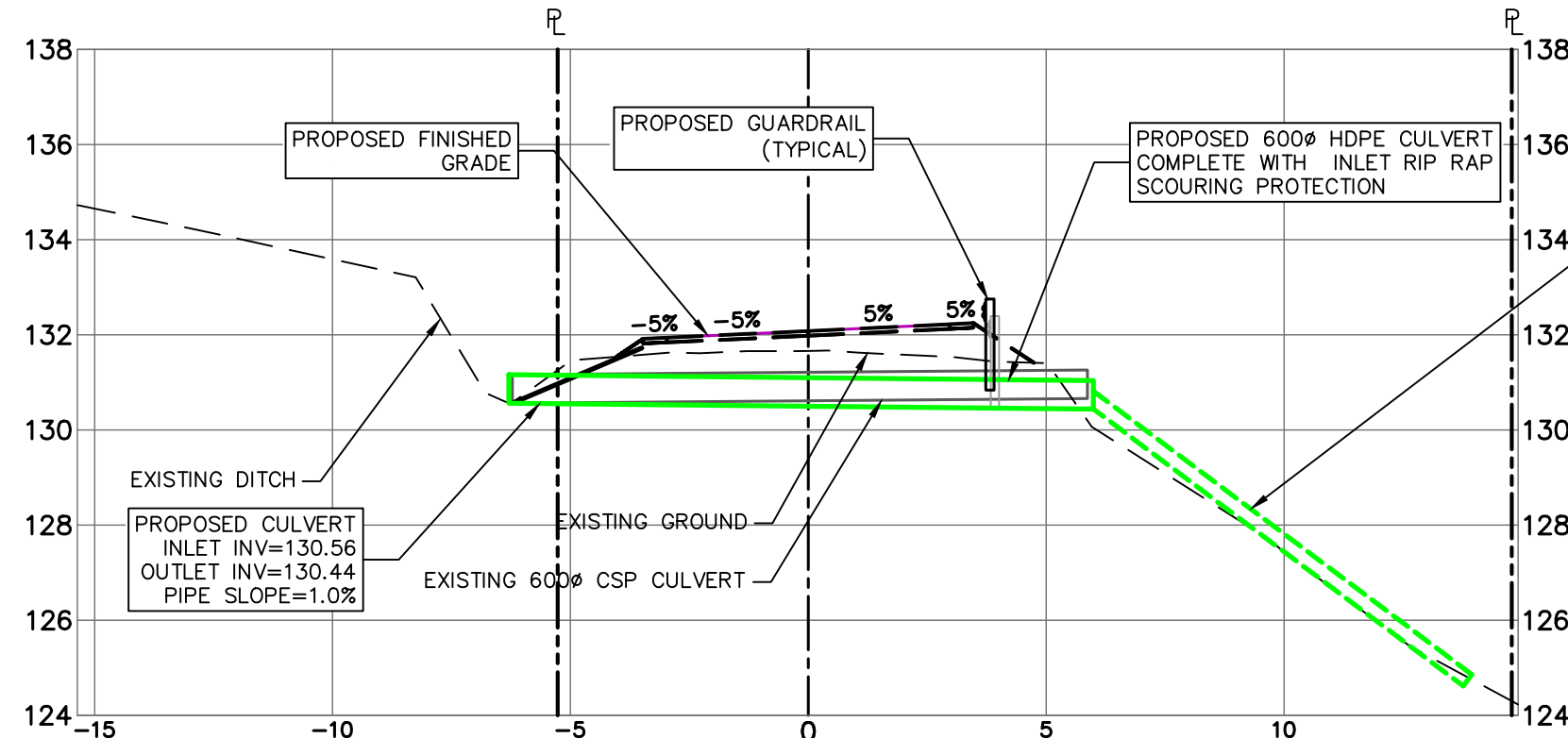
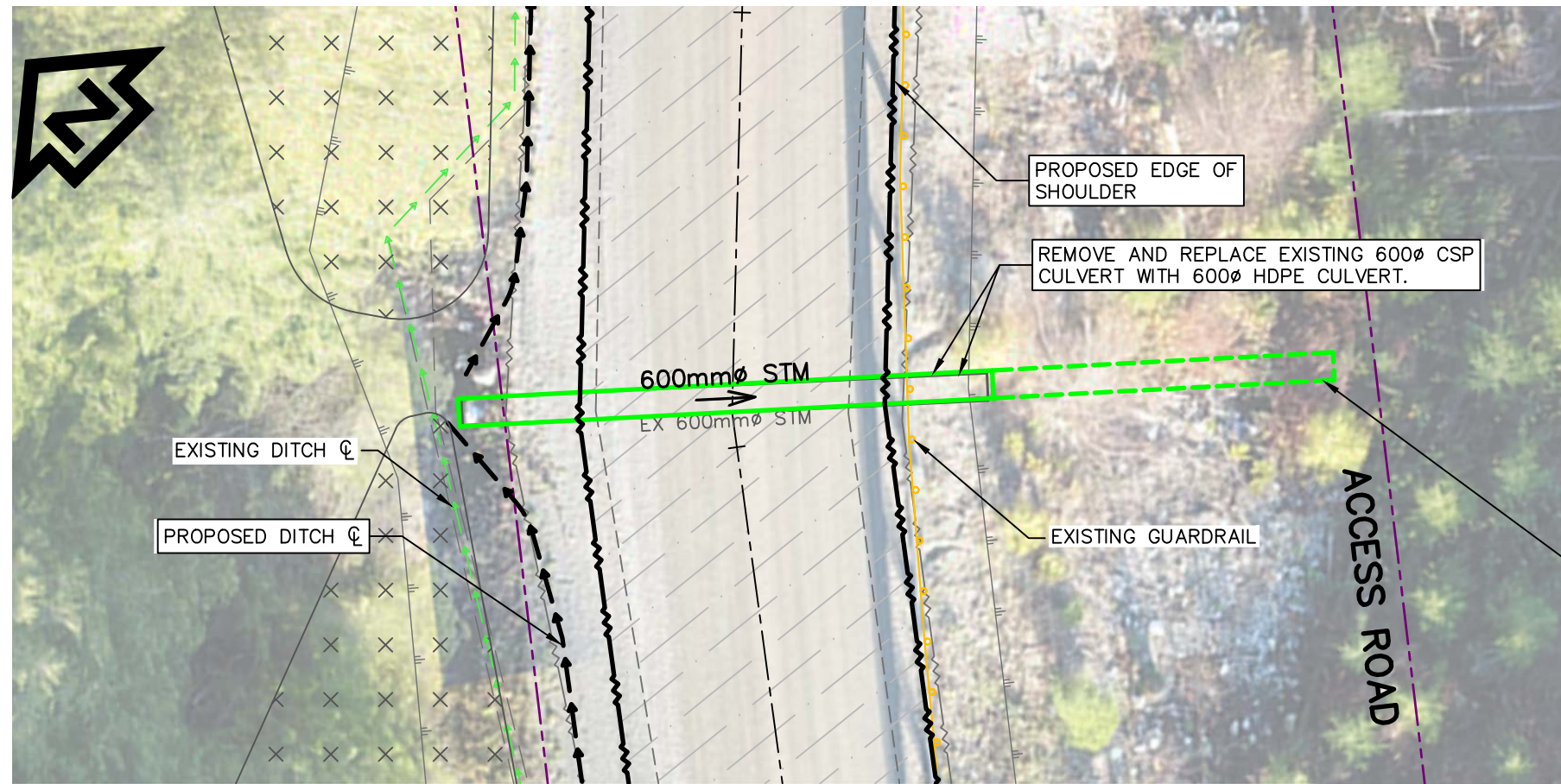
Drawing title/Titre du dessin

**COVER SHEET / KEY PLAN
DRAWING INDEX**

Project No./No. du projet R.093708.001	Sheet/Feuille G00	Revision no./La Révision no. 5
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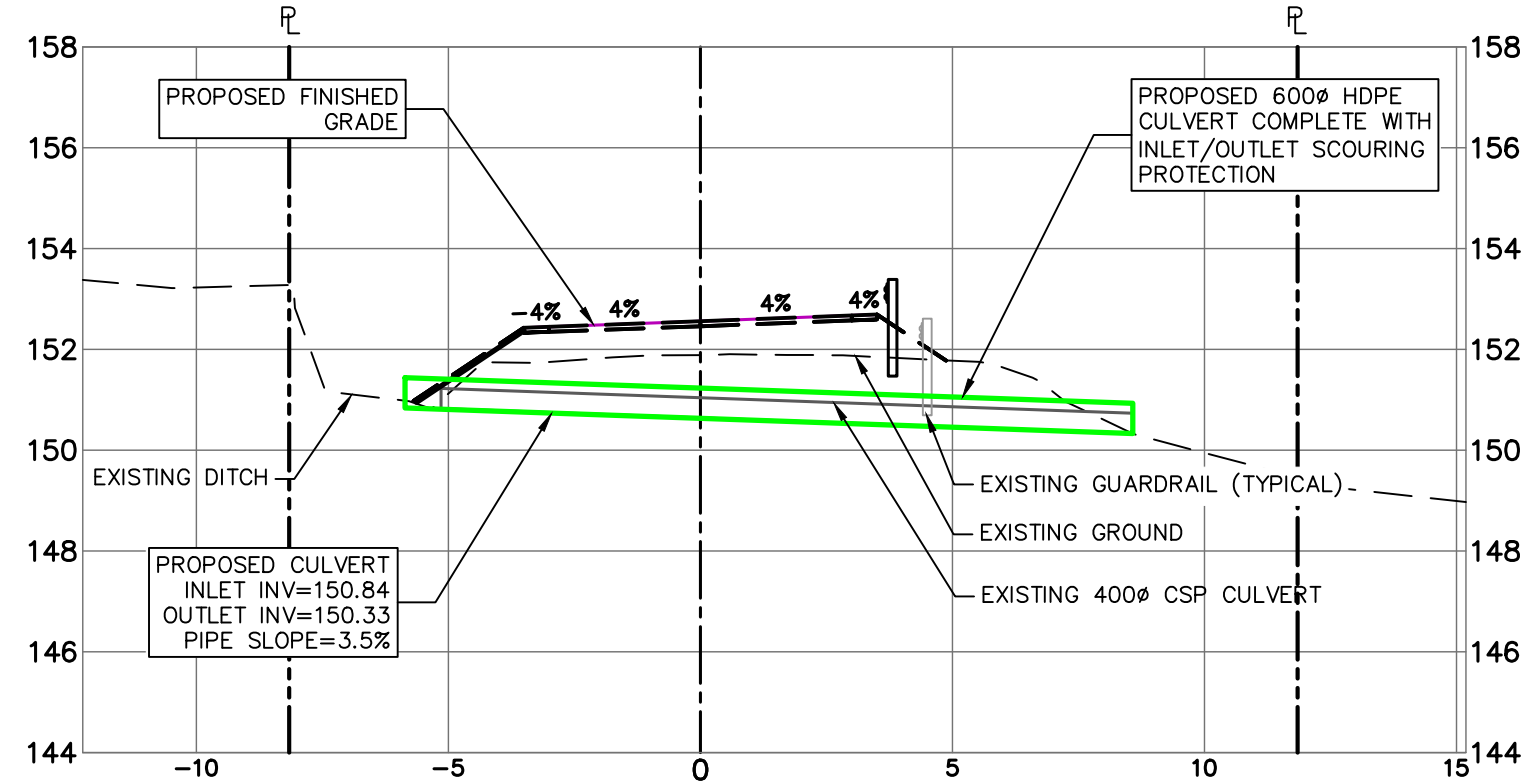
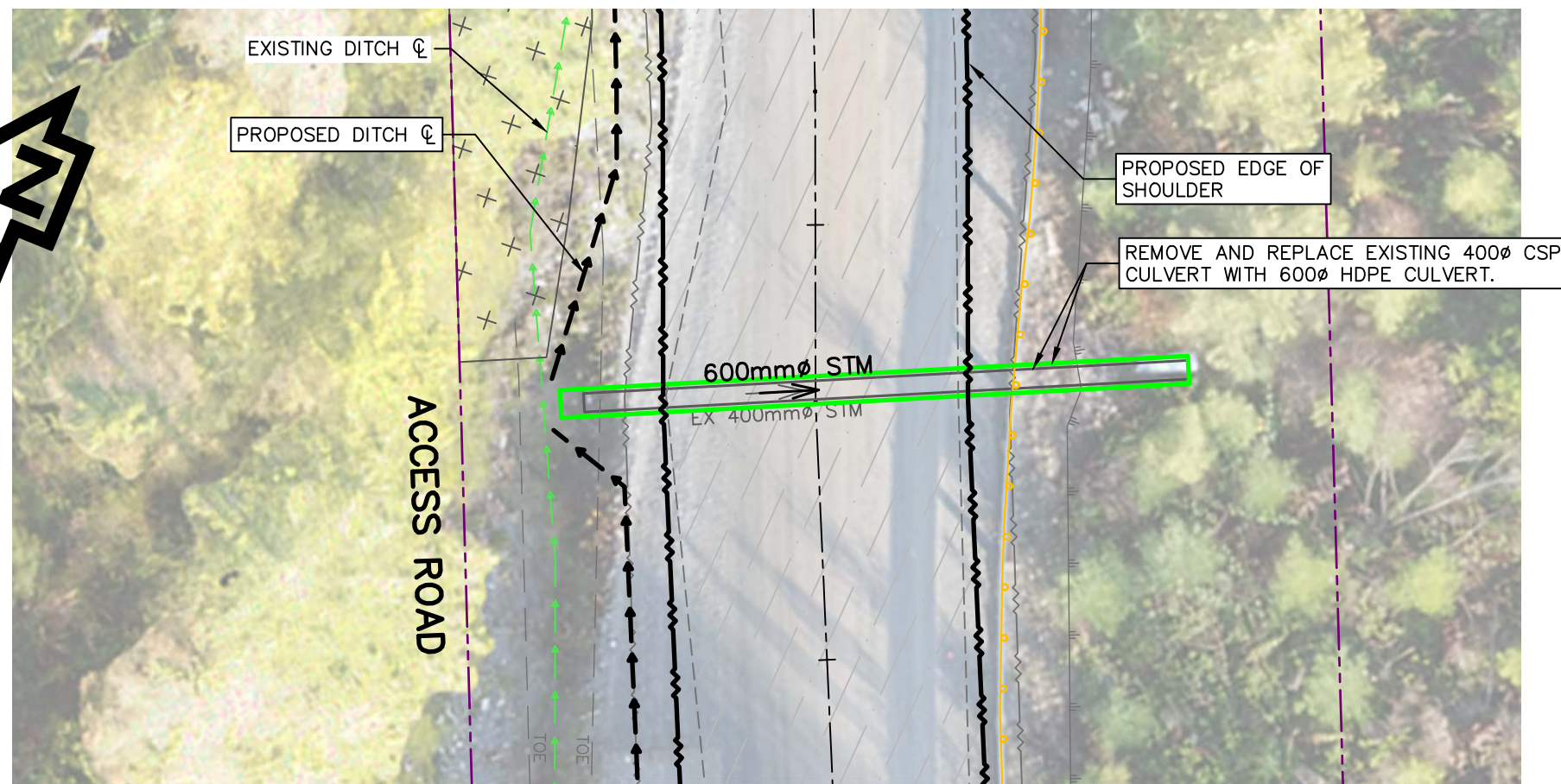
N:\17\17-0268A - KHV Access Road Repair - PWGSC Design\ - Current Drawing Files\17-0268A-Road Repair.dwg 2021/1/22 08:08:45 AM egot
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CULVERT 8 STATION 1+961
(REPLACE EXISTING 600mm CSP WITH 600mm HDPE)
SCALE 1:150H, 1:150V

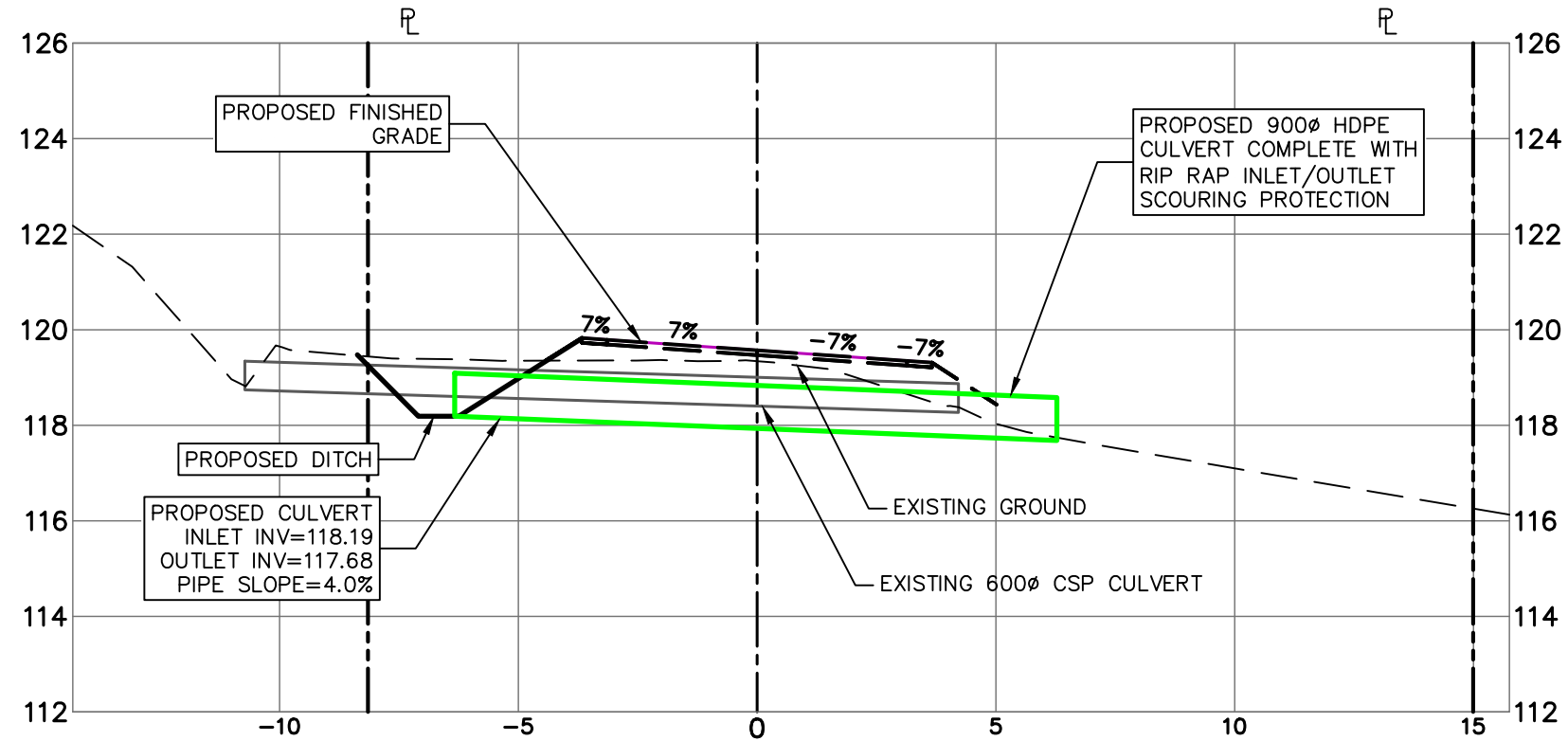
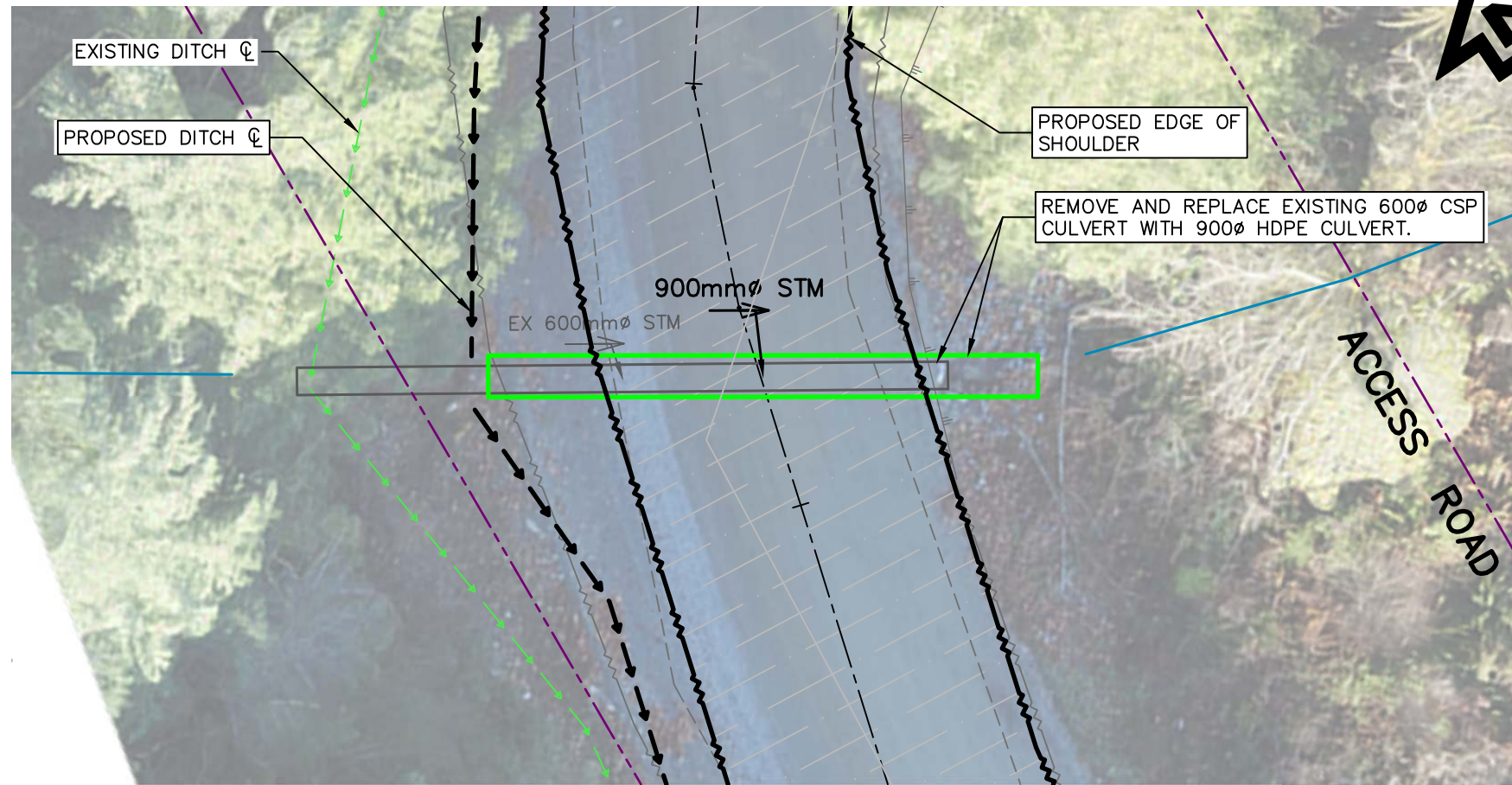
INSTALL 11m, 600mm CSP 'HALF-CULVERT' FROM CULVERT OUTLET TO TOE OF BANK. AT 'HALF-CULVERT' OUTLET, INSTALL 1.0m² OF 10KG CLASS RIP RAP WITH NOMINAL 0.35m THICKNESS FOR SCOURING PROTECTION.

- HEADWALL NOTES:
1. ON ALL PROPOSED CULVERT INLET AND OUTLETS, INSTALL CONCRETE FILLED SANDBAG HEADWALLS MINIMUM 0.25m ABOVE PROPOSED CULVERT OBVERTS.
 2. INSTALL VERTICAL 10M REINFORCEMENT BARS SPACED AT 0.50m ON CENTER.
 3. INSTALL 10KG CLASS RIP RAP WITH NOMINAL 0.35m THICKNESS AT BOTH INLET AND OUTLETS.

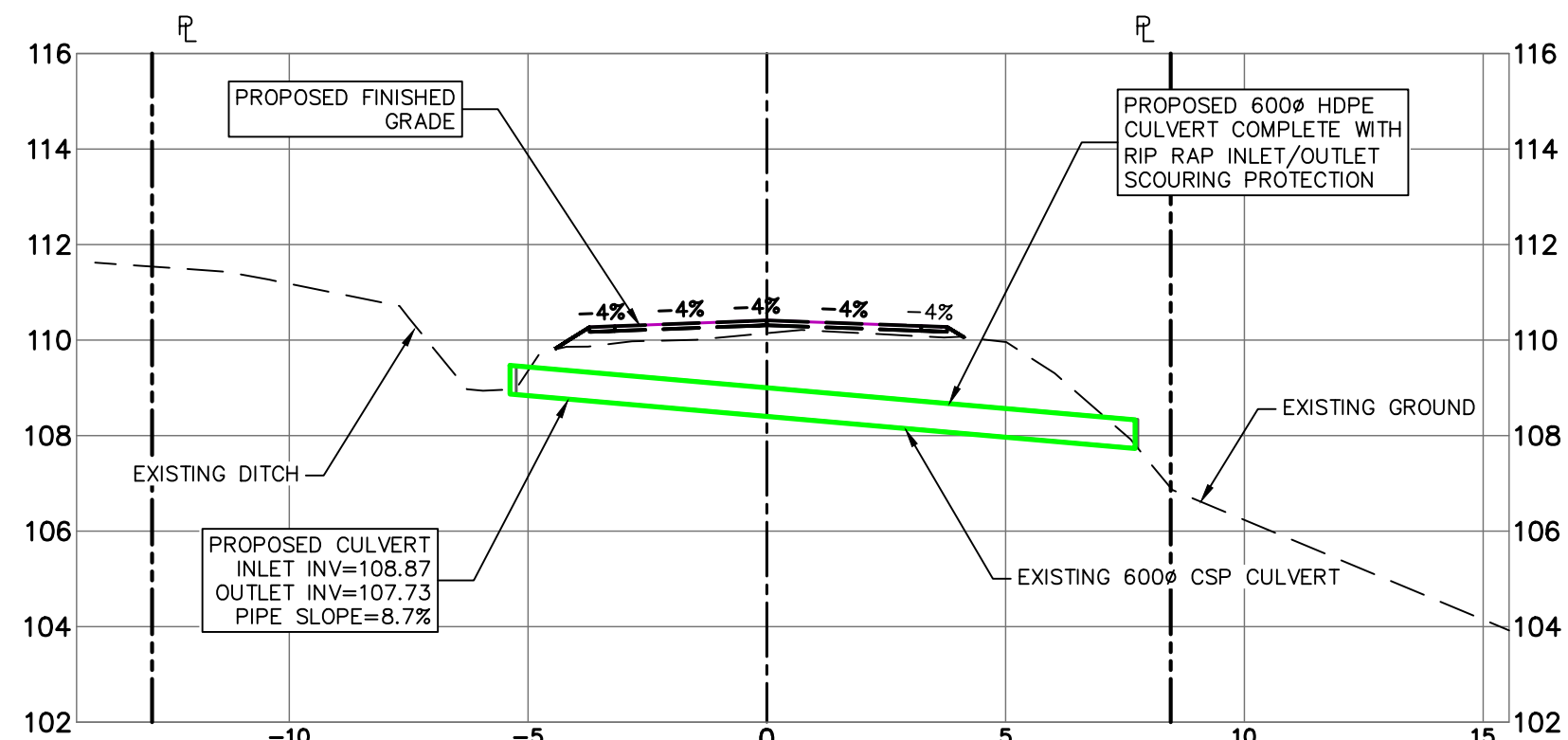
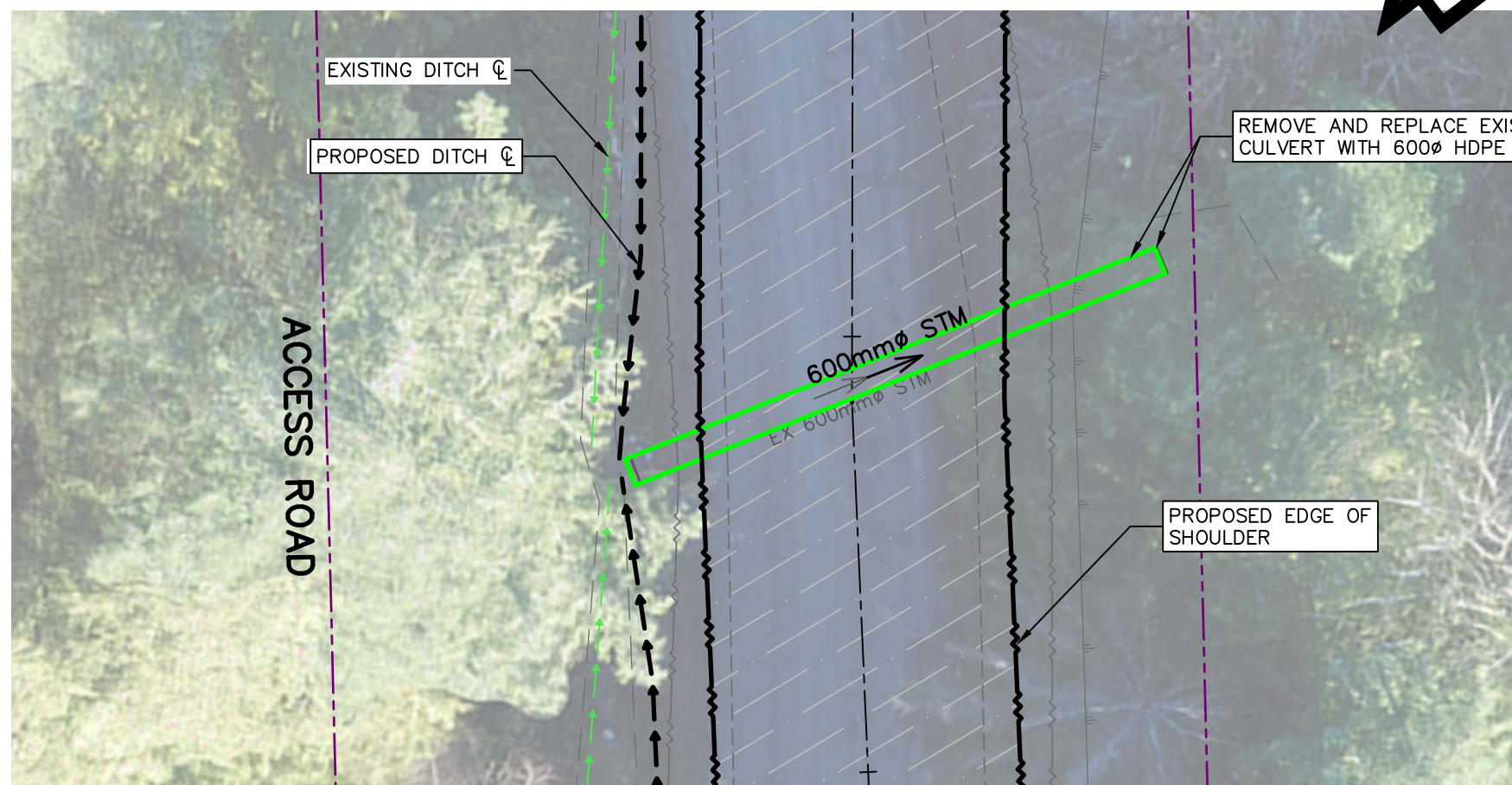


CULVERT 7 STATION 1+786
(UPSIZE 400mm TO 600mm)
SCALE 1:150H, 1:150V

SYMBOL		DESCRIPTION
	EXISTING	CULVERT
	PROPOSED	
		DITCH
		SIGN
		EDGE OF GRAVEL
		EDGE OF TRAVELED ROAD
		EDGE OF PAVEMENT
		GUARD RAIL
		LOGGING ROAD
		GATE
		LEGAL
		TOP OF BANK
		TOE OF BANK
		EROSION
		GRAVEL
		ASPHALT
		CLEAR AND GRUB
		CONTOURS



CULVERT 10 STATION 2+353
(UPSIZE 600mm TO 900mm)
SCALE 1:150H, 1:150V



CULVERT 9 STATION 2+188
(REMOVE AND REPLACE 600mm)
SCALE 1:150H, 1:150V



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**CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES**

Project Title/Titre du projet

**ACCESS ROAD
AND
CULVERT UPGRADES**

Consultant Signature Only
WEDLER ENGINEERING LLP
Designed by/Concept par
EAG
Drawn by/Dessiné par
TJD
PWGSC Project Manager/Administrateur de Projets TPSCG
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

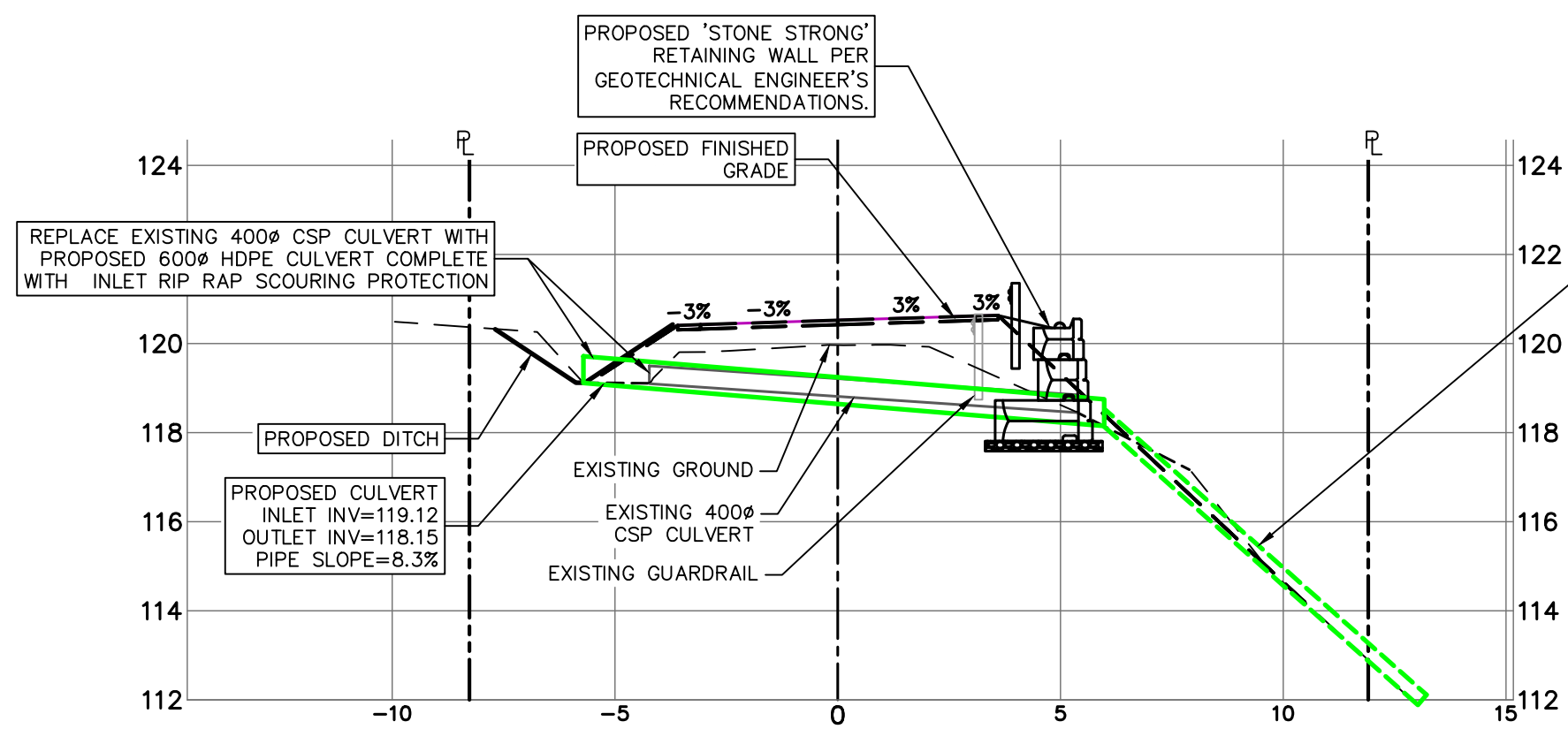
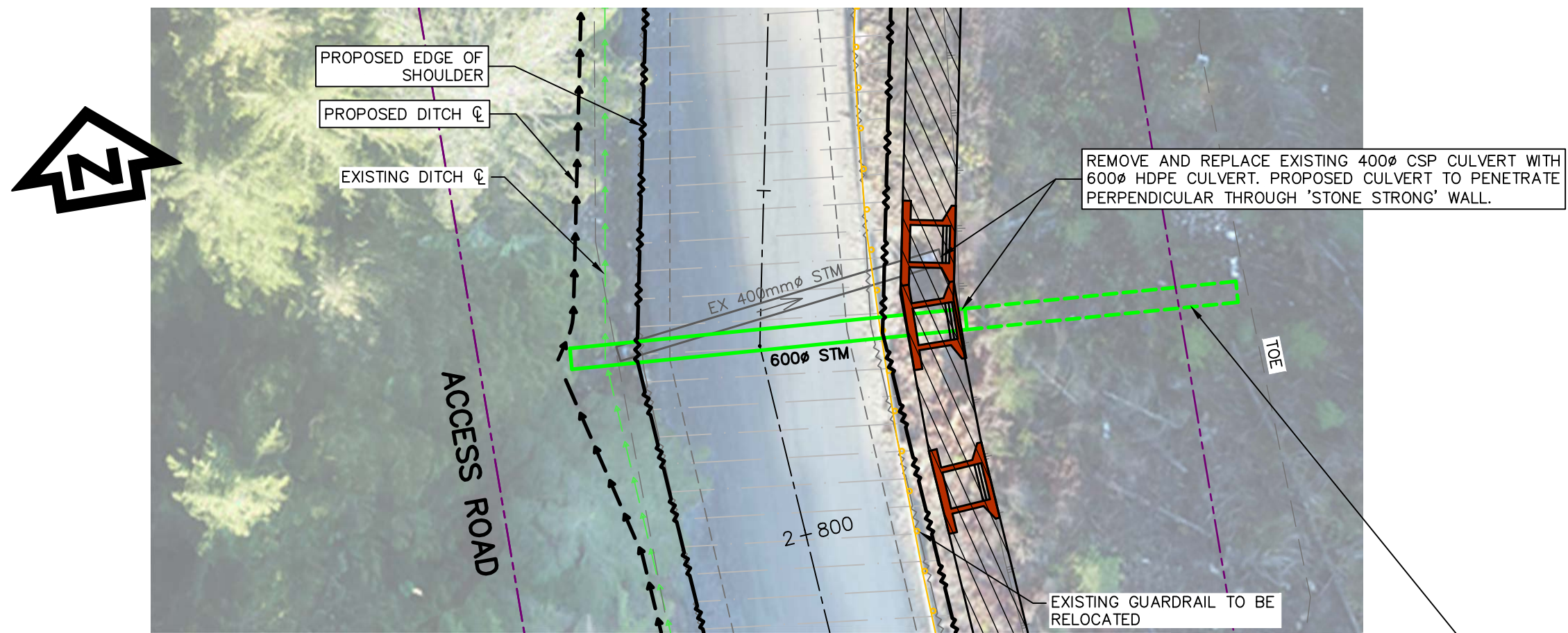
Drawing title/Titre du dessin

**CULVERT REPAIRS,
CULVERTS 7, 8, 9 AND 10
PLAN & SECTIONS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.093708.001	CV03	5

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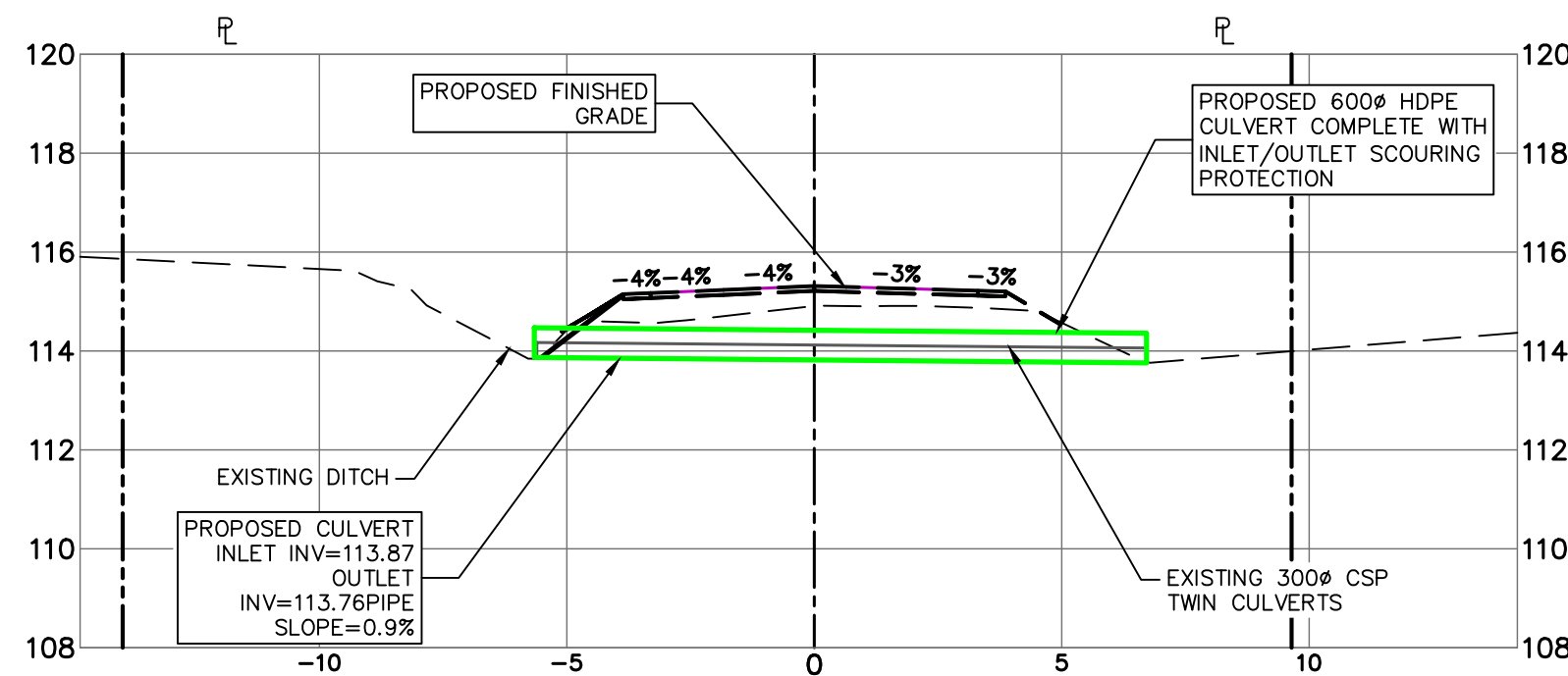
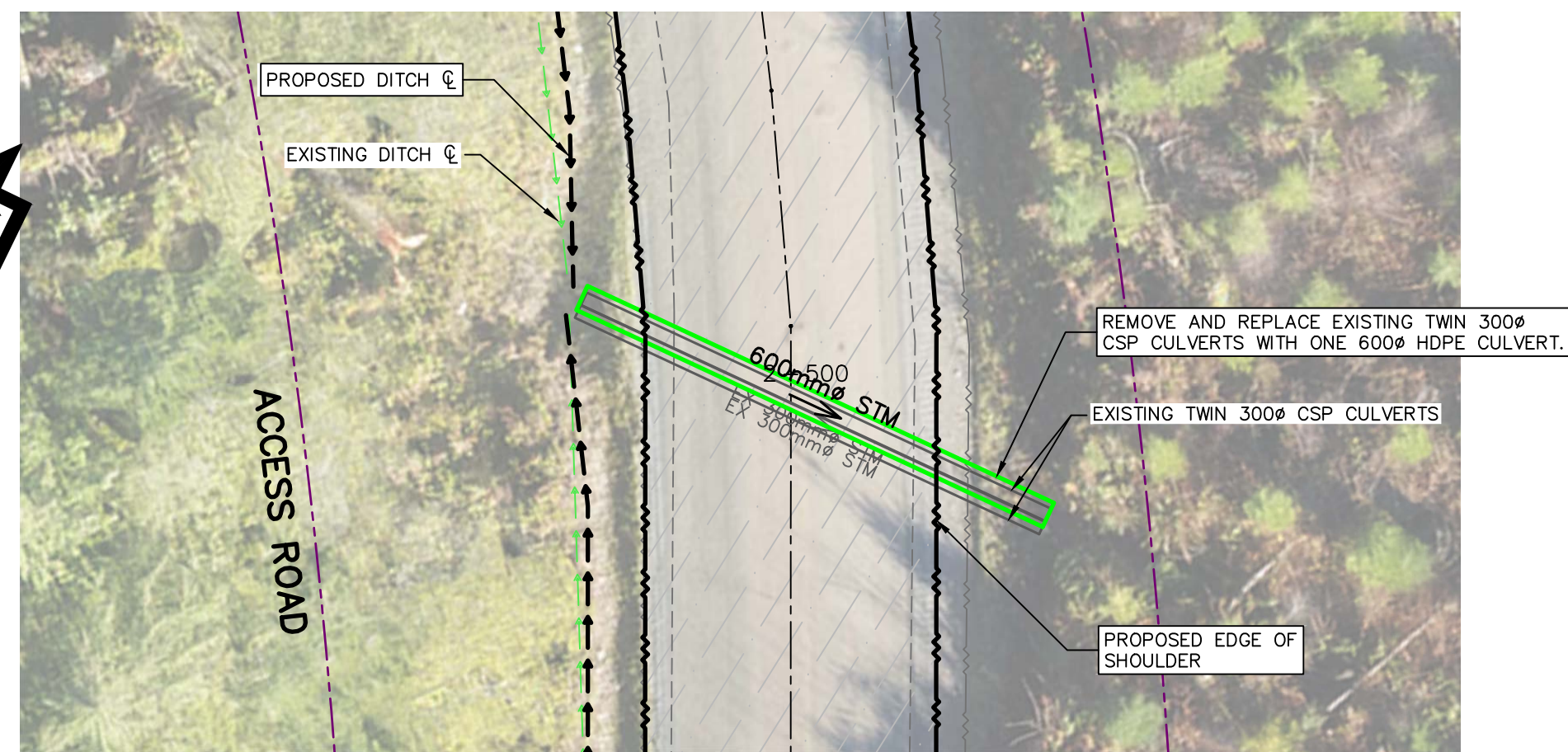
PWGSC - A1 - 841X594



CULVERT 12 STATION 2+806
(UPSIZE 400# TO 600#)
SCALE 1:150H, 1:150V

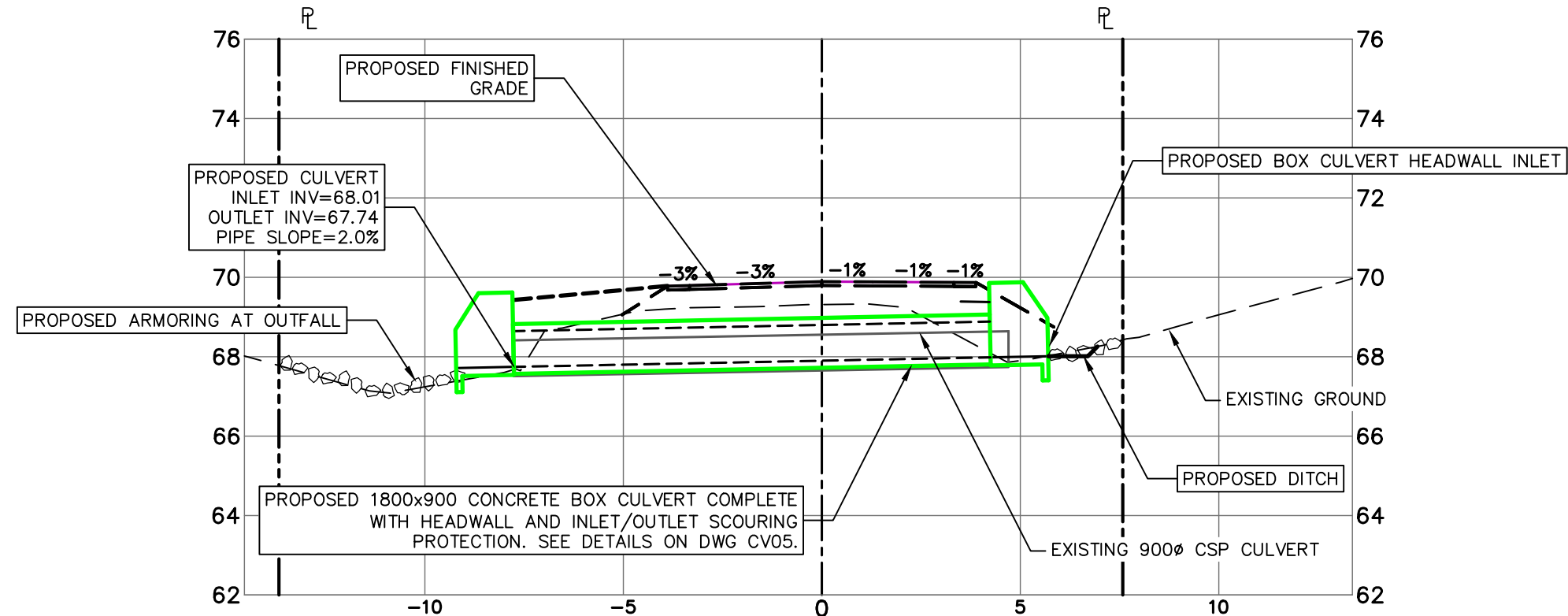
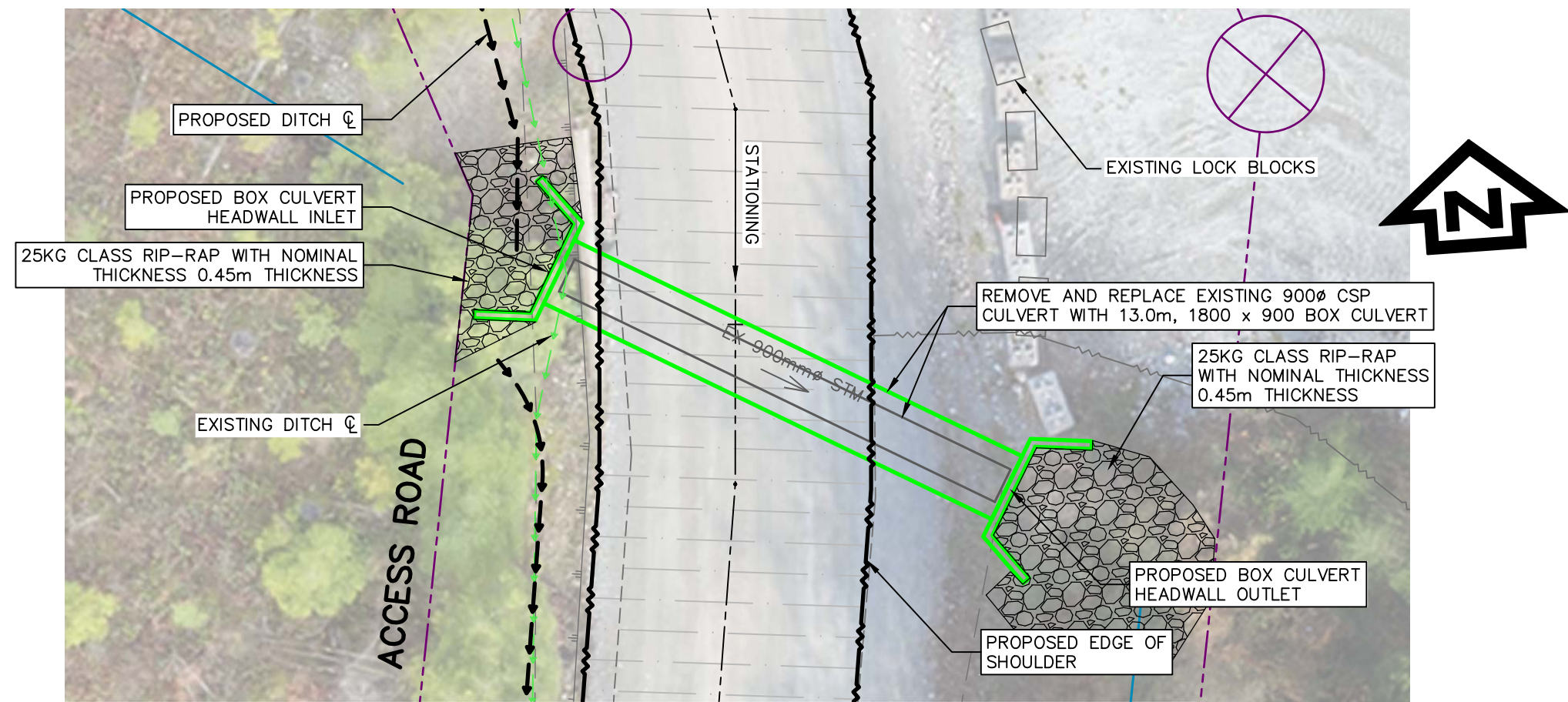
INSTALL 10m, 600# CSP 'HALF-CULVERT' FROM CULVERT OUTLET TO TOE OF BANK. AT 'HALF-CULVERT' OUTLET, INSTALL 1.0m² OF 10KG CLASS RIP RAP WITH NOMINAL 0.35m THICKNESS FOR SCOURING PROTECTION.

HEADWALL NOTES:
1. ON ALL PROPOSED CULVERT INLET AND OUTLETS, INSTALL CONCRETE FILLED SANDBAG HEADWALLS MINIMUM 0.25m ABOVE PROPOSED CULVERT OVERTS.
2. INSTALL VERTICAL 10M REINFORCEMENT BARS SPACED AT 0.50m ON CENTER.
3. INSTALL 10KG CLASS RIP RAP WITH NOMINAL 0.35m THICKNESS AT BOTH INLET AND OUTLETS.

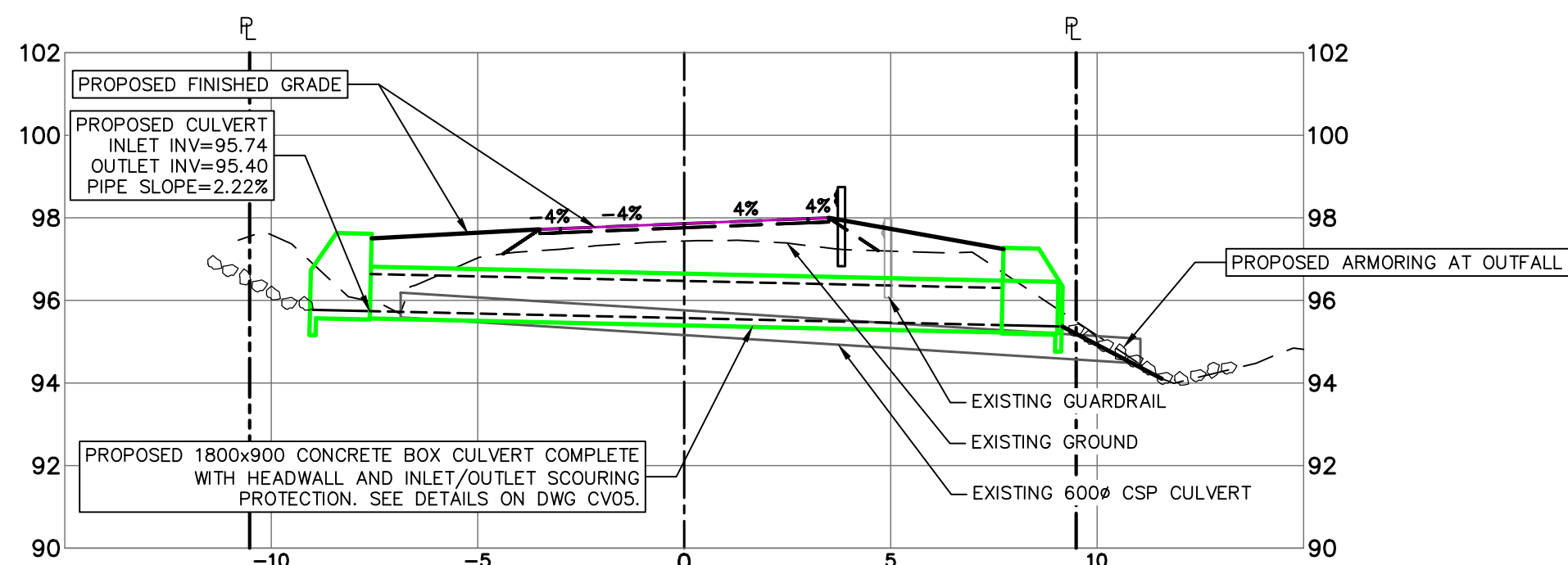
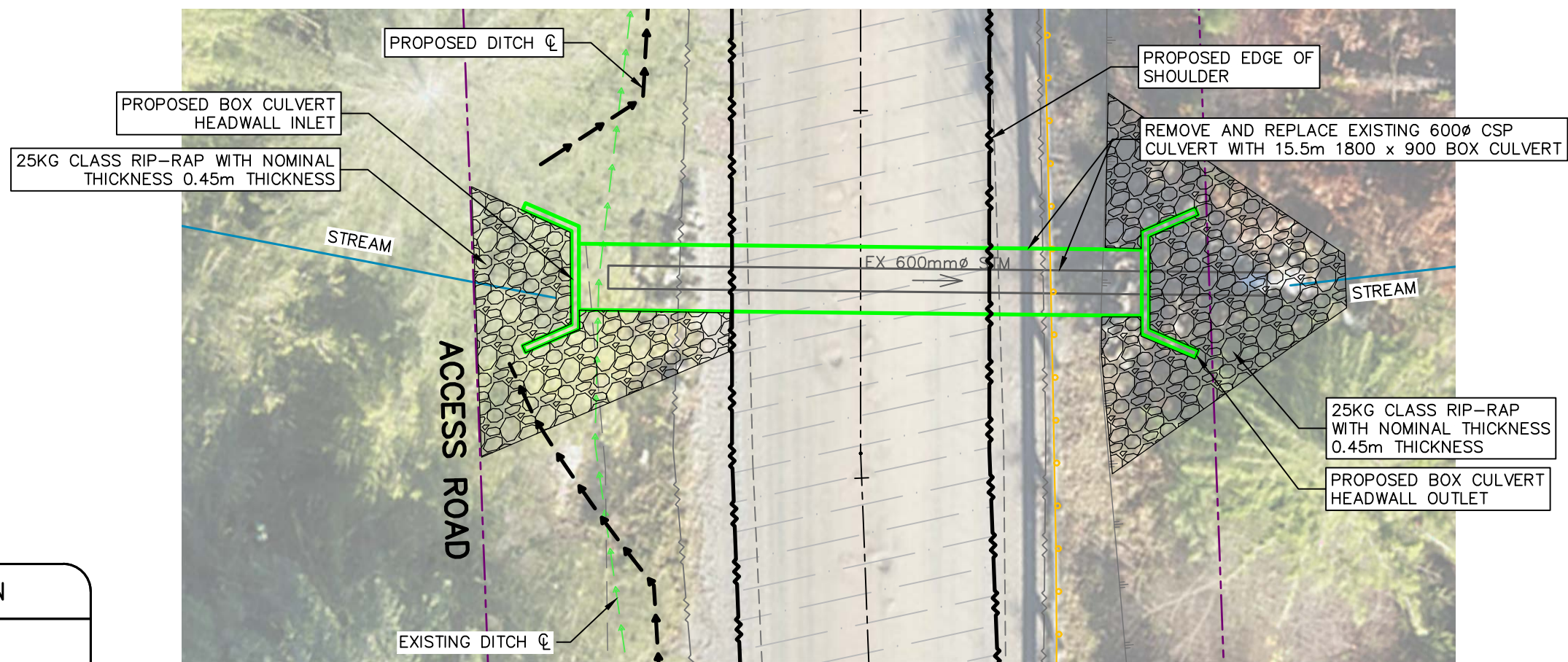


CULVERT 11 STATION 2+499
(REPLACE 300# TWIN CULVERTS WITH 600# CULVERT)
SCALE 1:150H, 1:150V

SYMBOL	DESCRIPTION
EXISTING	PROPOSED
EX 600mm STM	600mm STM
CULVERT	CULVERT
DITCH	DITCH
EDGE OF GRAVEL	EDGE OF GRAVEL
EDGE OF TRAVELED ROAD	EDGE OF TRAVELED ROAD
EDGE OF PAVEMENT	EDGE OF PAVEMENT
GUARD RAIL	GUARD RAIL
LOGGING ROAD	LOGGING ROAD
GATE	GATE
LEGAL	LEGAL
TOP OF BANK	TOP OF BANK
TOE OF BANK	TOE OF BANK
EROSION	EROSION
GRAVEL	GRAVEL
ASPHALT	ASPHALT
CLEAR AND GRUB	CLEAR AND GRUB
CONTOURS	CONTOURS



CULVERT 14 STATION 3+421
(UPSIZE 900# TO 1800x900 BOX CULVERT)
SCALE 1:150H, 1:150V



CULVERT 13 STATION 3+055
(UPSIZE 600# TO 1800x900 BOX CULVERT)
SCALE 1:150H, 1:150V

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CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

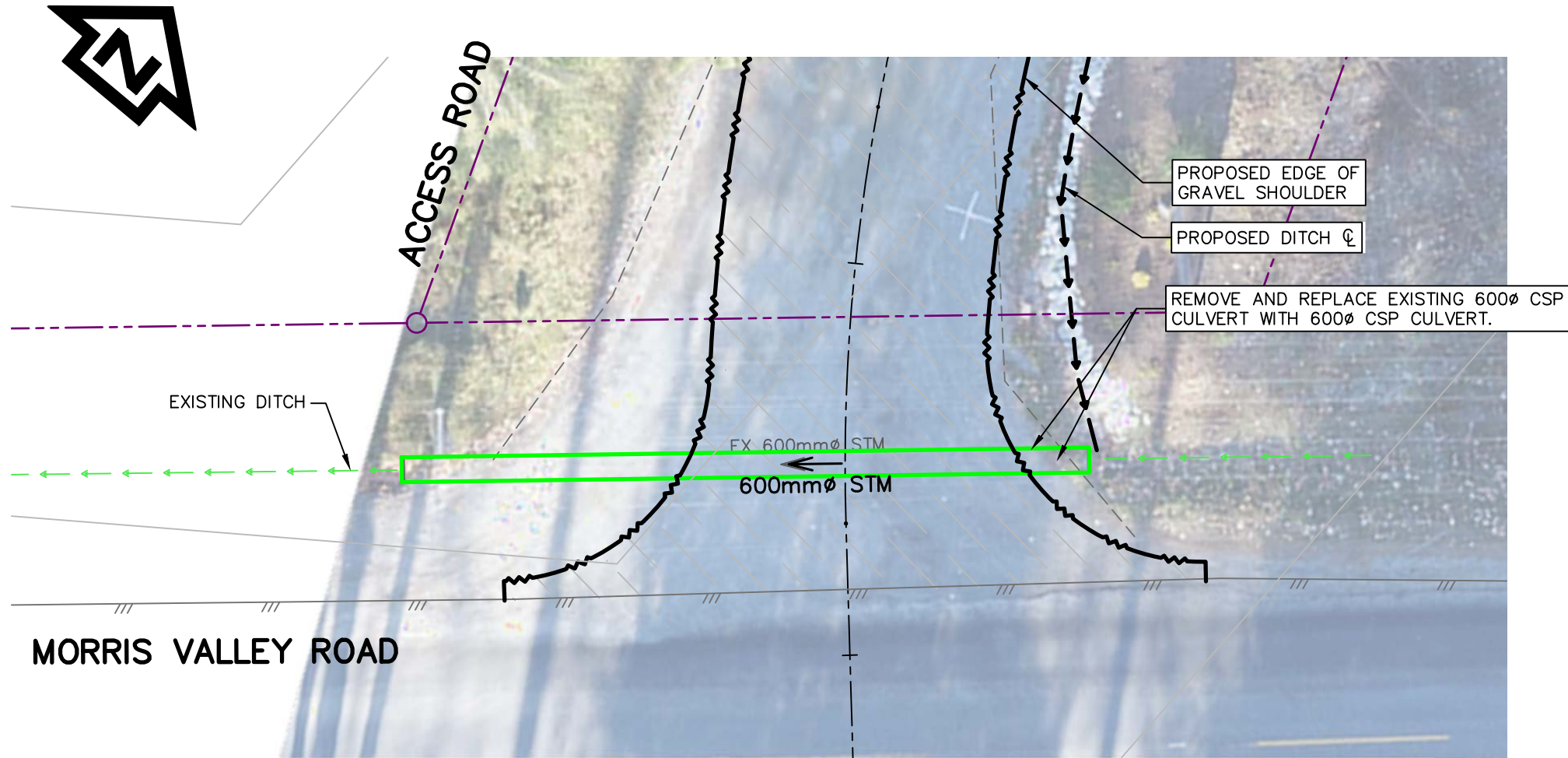
ACCESS ROAD
AND
CULVERT UPGRADES


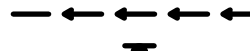




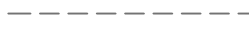









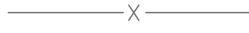















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WEDLER ENGINEERING LLP
Designed by/Concept par
EAG
Drawn by/Dessiné par
TJD
PWGSC Project Manager/Administrateur de Projets TPSGC
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

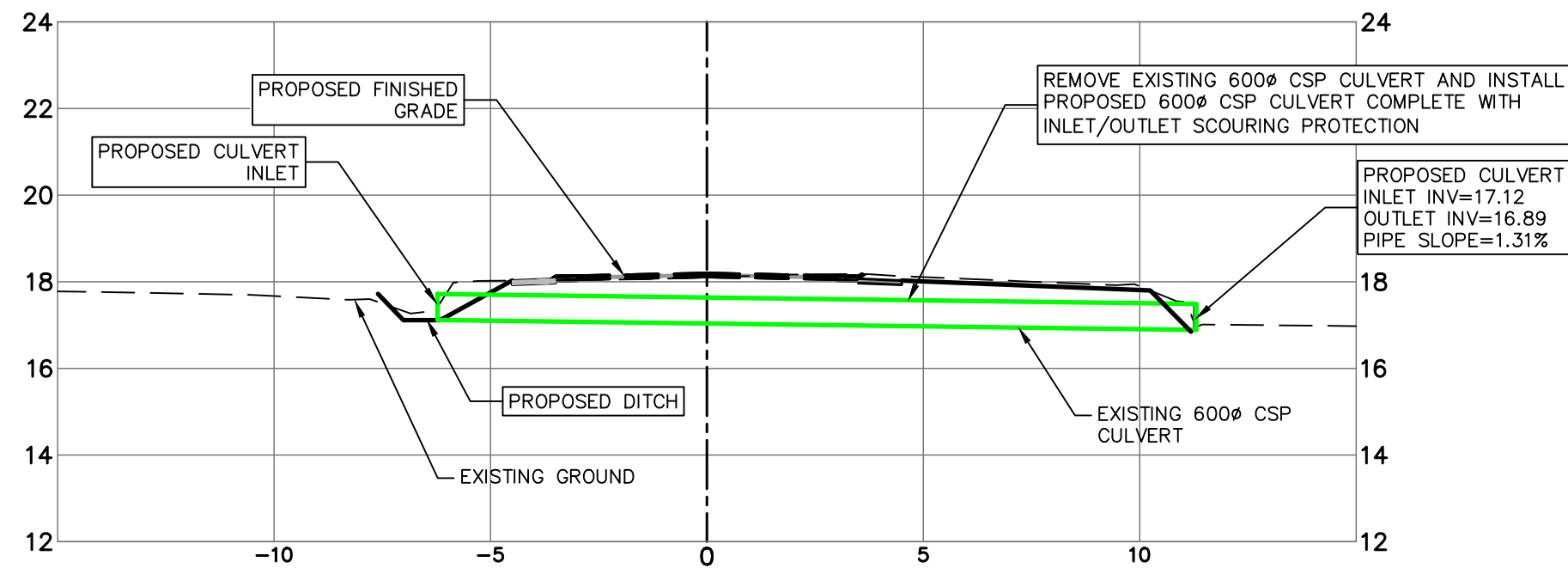
CULVERT REPAIRS,
CULVERTS 11, 12, 13 AND 14
PLAN & SECTIONS

Project No./No. du projet	Sheet/Feuille	Revision no./Loi Révision no.
R.093708.001	CV04	5

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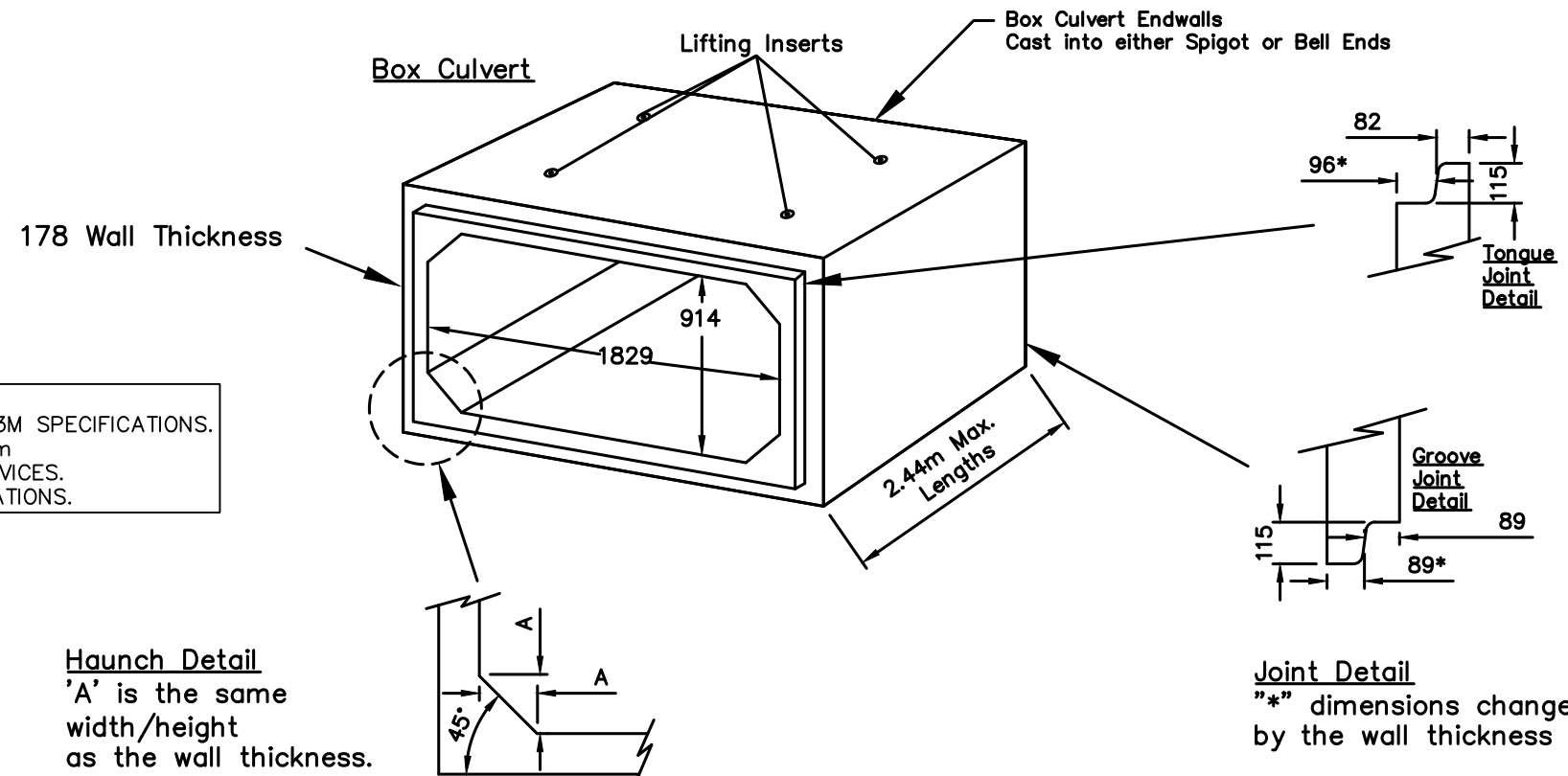


SYMBOL	DESCRIPTION	
EXISTING	PROPOSED	
EX 600mmØ STM	600mmØ STM	CULVERT
		DITCH
		SIGN
		EDGE OF GRAVEL
		EDGE OF TRAVELED ROAD
		EDGE OF PAVEMENT
		GUARD RAIL
		LOGGING ROAD
		GATE
		LEGAL
		TOP OF BANK
		TOE OF BANK
		EROSION
		GRAVEL
		ASPHALT
		CLEAR AND GRUB
		CONTOURS

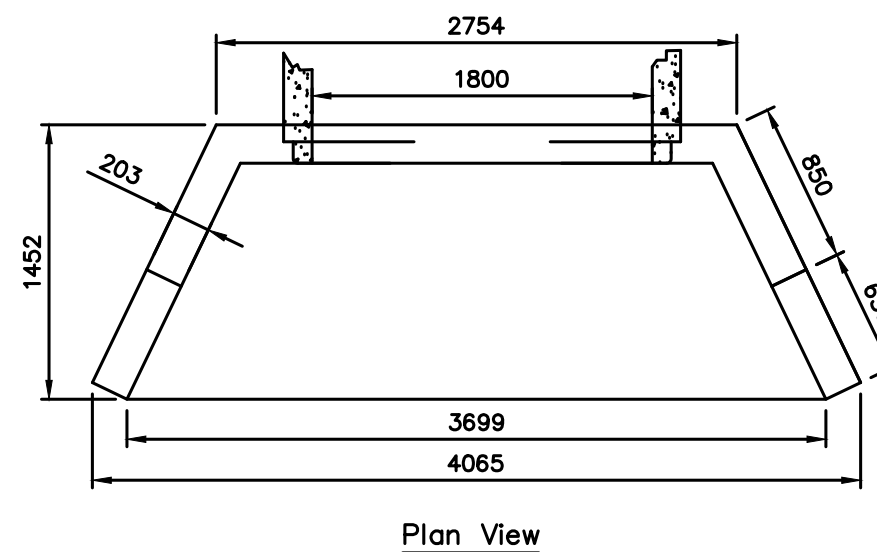


CULVERT 15 STATION 3+925
(REMOVE AND REPLACE EXISTING 600mm)
SCALE 1:150H, 1:150V

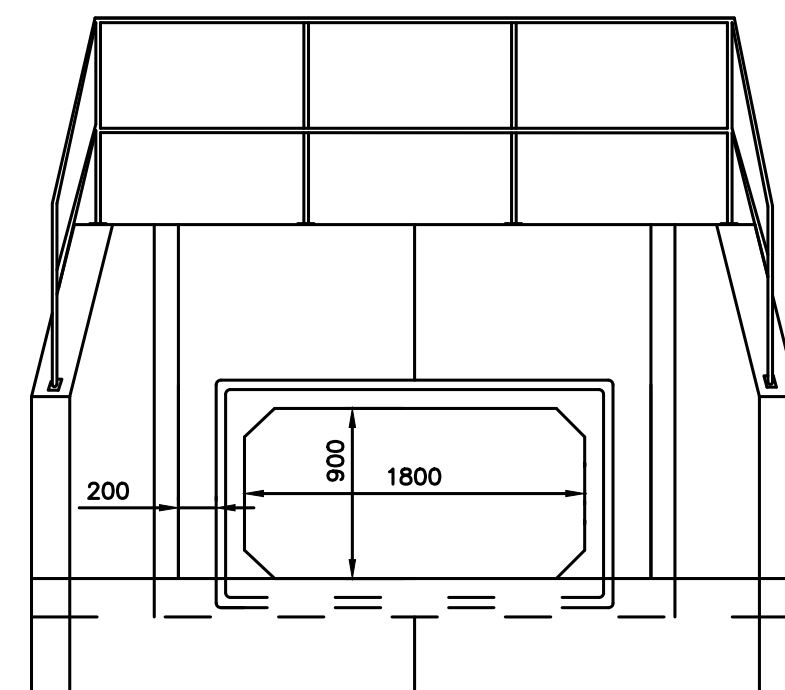
- HEADWALL NOTES:
- ON ALL PROPOSED CULVERT INLET AND OUTLETS, INSTALL CONCRETE FILLED SANDBAG HEADWALLS MINIMUM 0.25m ABOVE PROPOSED CULVERT OBVERTS.
 - INSTALL VERTICAL 10M REINFORCEMENT BARS SPACED AT 0.50m ON CENTER.
 - INSTALL 10KG CLASS RIP RAP WITH NOMINAL 0.35m THICKNESS AT BOTH INLET AND OUTLETS.



BOX CULVERT DETAIL
N.T.S.



Plan View



Elevation View

HEADWALL STRUCTURE DETAIL
N.T.S.

- NOTES:
- HEADWALL IS SPLIT AND EXPANDED TO PROVIDE AREA FOR 1800x900 BOX CULVERT OPENING.
 - BOX OPENING TO BE REINFORCED WITH 15M REBAR.
 - HANDRAIL TO BE INCLUDED.
 - MINIMUM CONCRETE STRENGTH: 27.5 MPa.

Revision/	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
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Client/client

CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

Project Title/Titre du projet

ACCESS ROAD
AND
CULVERT UPGRADES

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WEDLER ENGINEERING LLP

Designed by/Concept par
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Drawn by/Dessiné par
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PWGSC Project Manager/Administrateur de Projets TPSCG

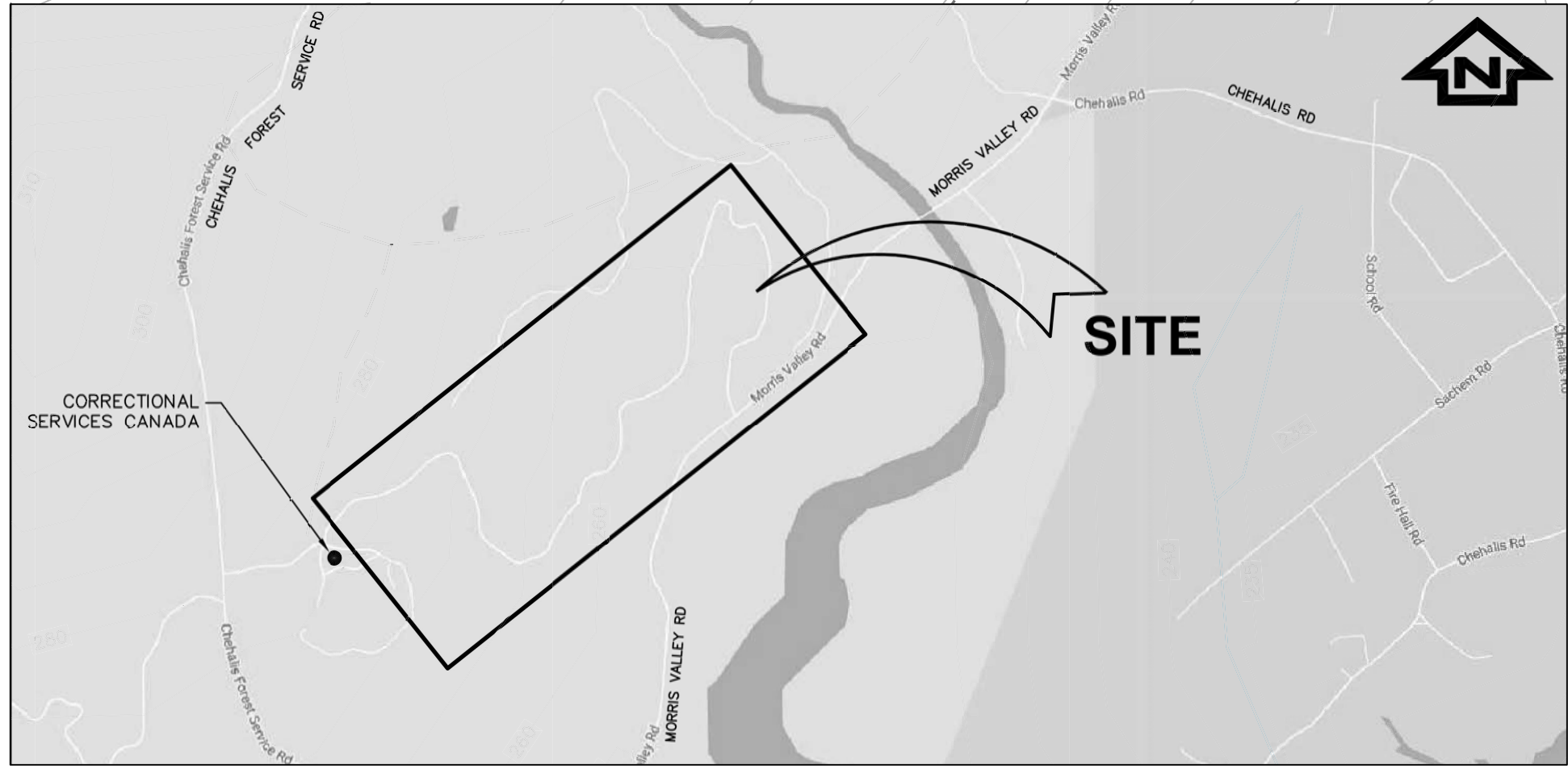
TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

Drawing Title/Titre du dessin

CULVERT REPAIRS,
CULVERT 15
PLAN & SECTION,
CONCRETE CULVERT DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.093708.001	CV05	5



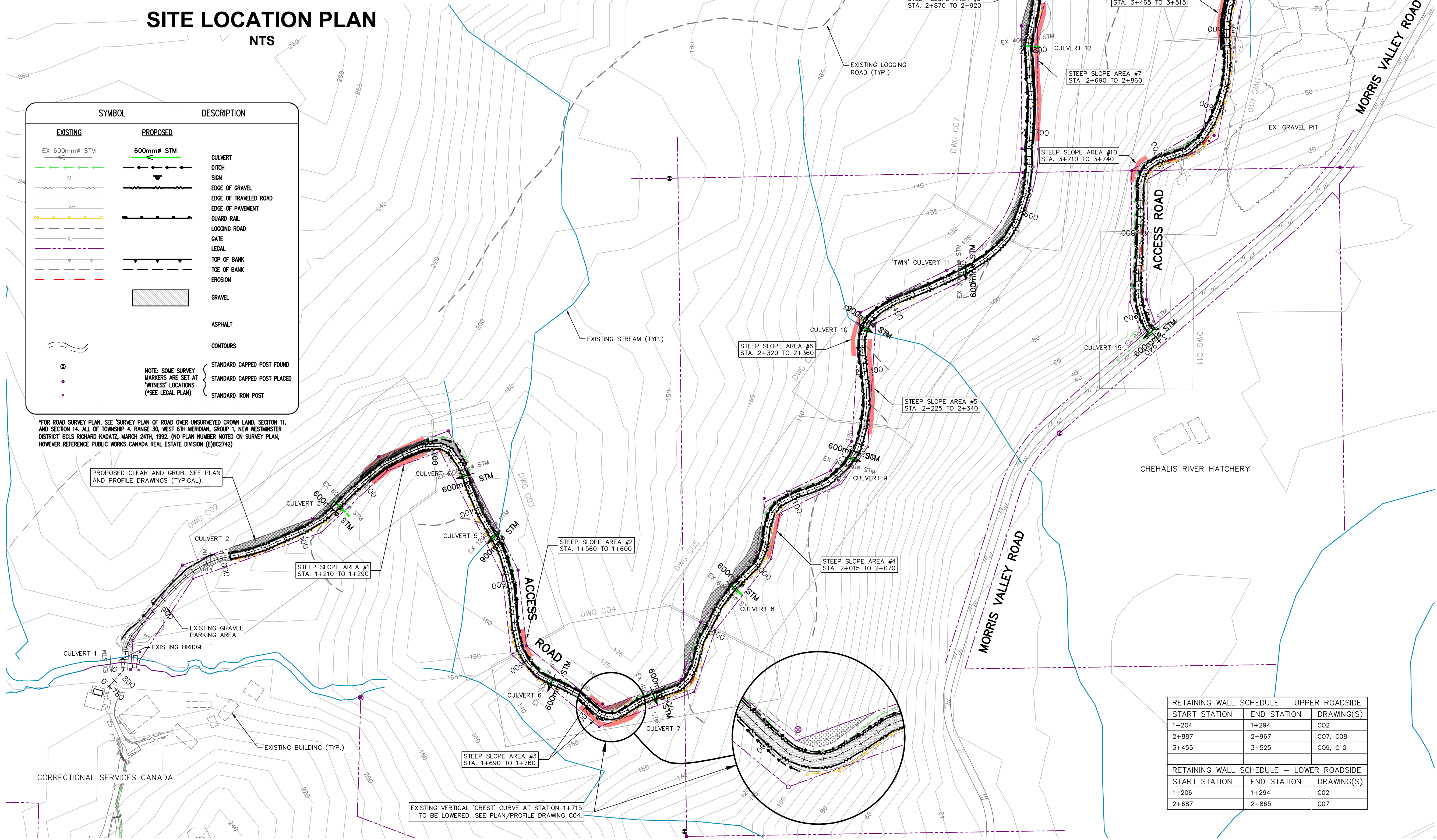
SITE LOCATION PLAN
NTS

SYMBOL	DESCRIPTION
EXISTING	PROPOSED
EX 600mm ϕ STM	600mm ϕ STM
CULVERT	DITCH
SIGN	EDGE OF GRAVEL
EDGE OF TRAVELED ROAD	EDGE OF PAVEMENT
GUARD RAIL	LOGGING ROAD
GATE	LEGAL
TOP OF BANK	TOE OF BANK
EROSION	GRAVEL
ASPHALT	CONTOURS
NOTE: SOME SURVEY MARKERS ARE SET AT "WITNESS" LOCATIONS (*SEE LEGAL PLAN)	STANDARD CAPPED POST FOUND
	STANDARD CAPPED POST PLACED
	STANDARD IRON POST

*FOR ROAD SURVEY PLAN, SEE "SURVEY PLAN OF ROAD OVER UNSURVEYED CROWN LAND, SECTION 11, AND SECTION 14, ALL OF TOWNSHIP 4, RANGE 30, WEST 6TH MERIDIAN, GROUP 1, NEW WESTMINSTER DISTRICT" BOLS RICHARD KADATZ, MARCH 24TH, 1992. (NO PLAN NUMBER NOTED ON SURVEY PLAN, HOWEVER REFERENCE PUBLIC WORKS CANADA REAL ESTATE DIVISION (E)BC2742)

PROPOSED CLEAR AND GRUB. SEE PLAN AND PROFILE DRAWINGS (TYPICAL).

STEEP SLOPE AREAS INCLUDED IN DESIGN	STEEP SLOPE AREAS NOT INCLUDED IN DESIGN
STEEP SLOPE AREA #1 (DOWNSLOPE)	STEEP SLOPE AREA #2 (UPSLOPE)
STEEP SLOPE AREA #4 (DOWNSLOPE)	STEEP SLOPE AREA #3 (UP/DOWNSLOPE)
STEEP SLOPE AREA #7 (DOWNSLOPE)	STEEP SLOPE AREA #5 (DOWNSLOPE)
STEEP SLOPE AREA #8 (UPSLOPE)	STEEP SLOPE AREA #6 (UPSLOPE)
STEEP SLOPE AREA #9 (UPSLOPE)	STEEP SLOPE AREA #10 (UPSLOPE)



RETAINING WALL SCHEDULE - UPPER ROADSIDE		
START STATION	END STATION	DRAWING(S)
1+204	1+294	C02
2+587	2+967	C07, C08
3+455	3+525	C09, C10

RETAINING WALL SCHEDULE - LOWER ROADSIDE		
START STATION	END STATION	DRAWING(S)
1+206	1+294	C02
2+687	2+865	C07



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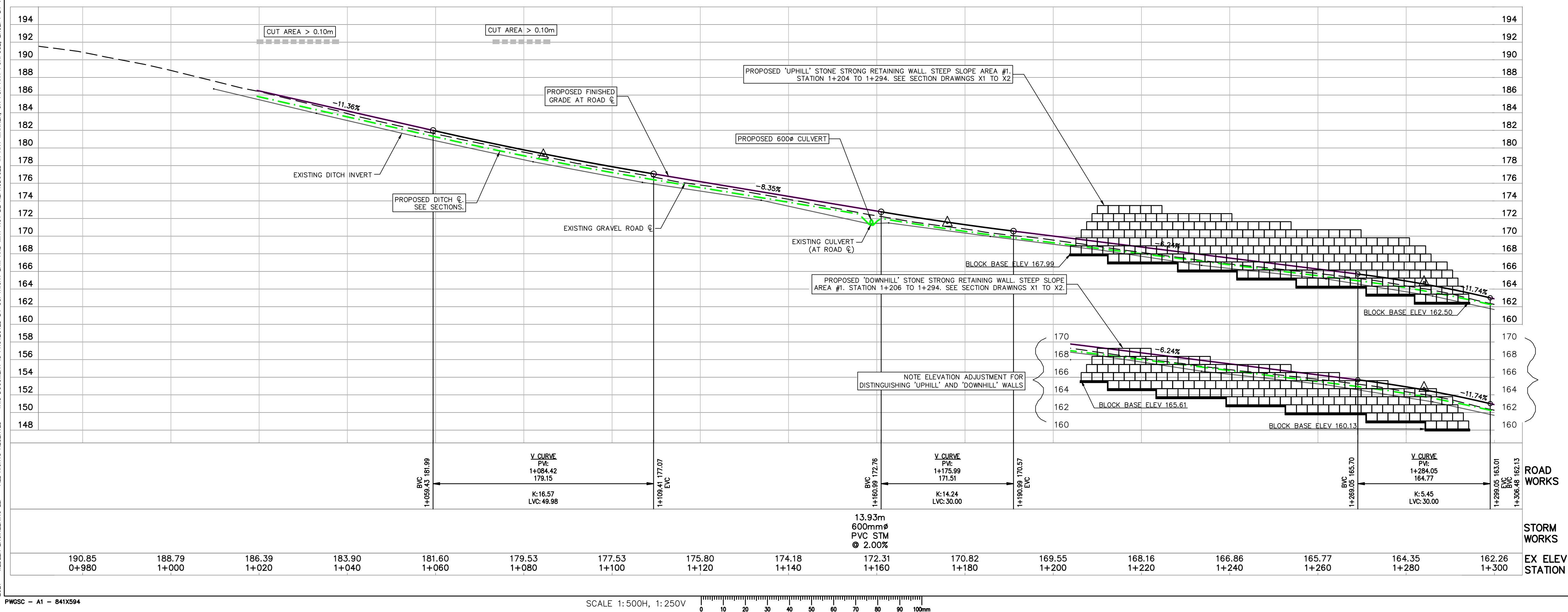
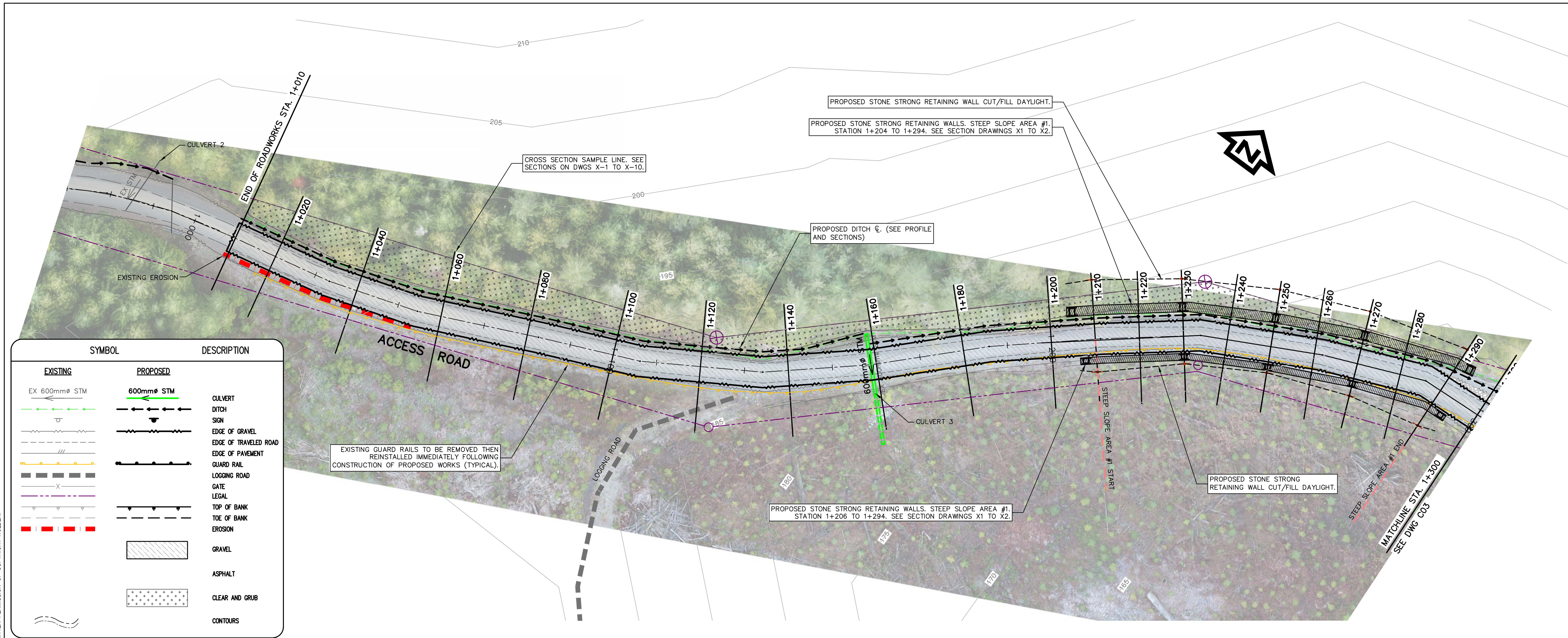
CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

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TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCC

Drawing title/Titre du dessin
**ROAD WORKS
SITE PLAN**

N:\17\17-0268A - KHV Access Road Repair - PWGSC Design\17-0268A-Road Repair.dwg 2021/1/22 08:12:05 AM egot
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REAL PROPERTY SERVICES

Pacific Region

SERVICES IMMOBILIERS

Région de Pacifique

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Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSCC		
Drawing Title/Titre du dessin		
ROAD AND EROSION REPAIR STATION 1+010 TO 1+300 PLAN AND PROFILE		
Project No./No. du projet R.093708.001	Sheet/Feuille C02	Revision no./ La Révision no. 5

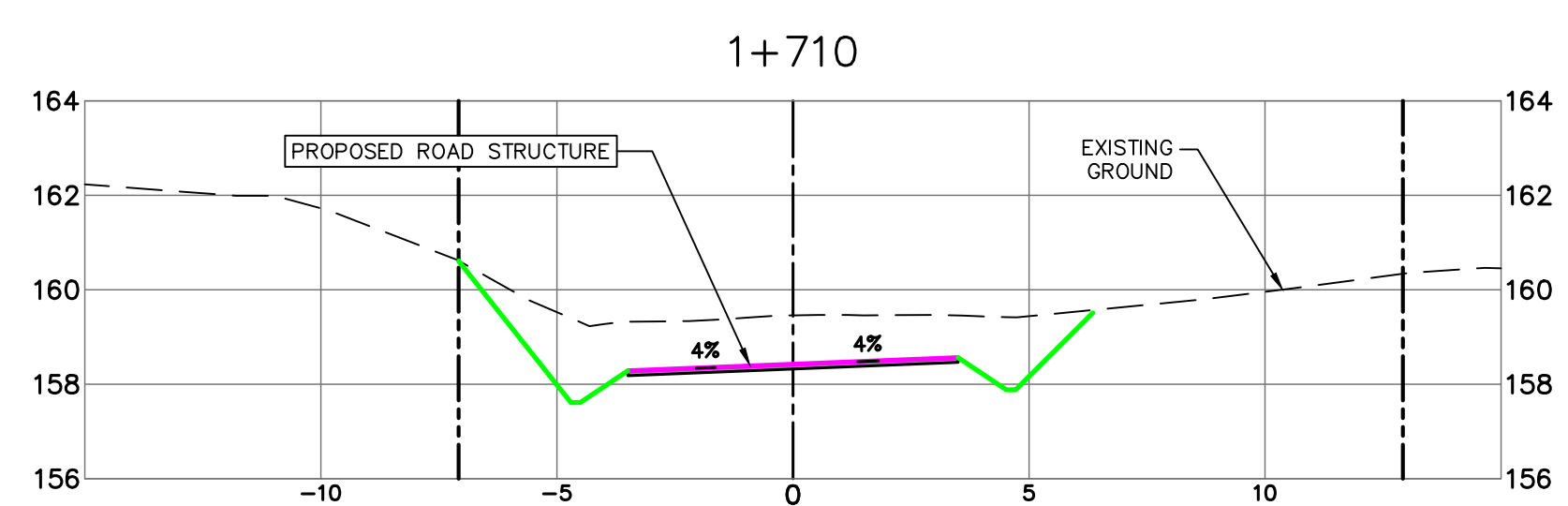
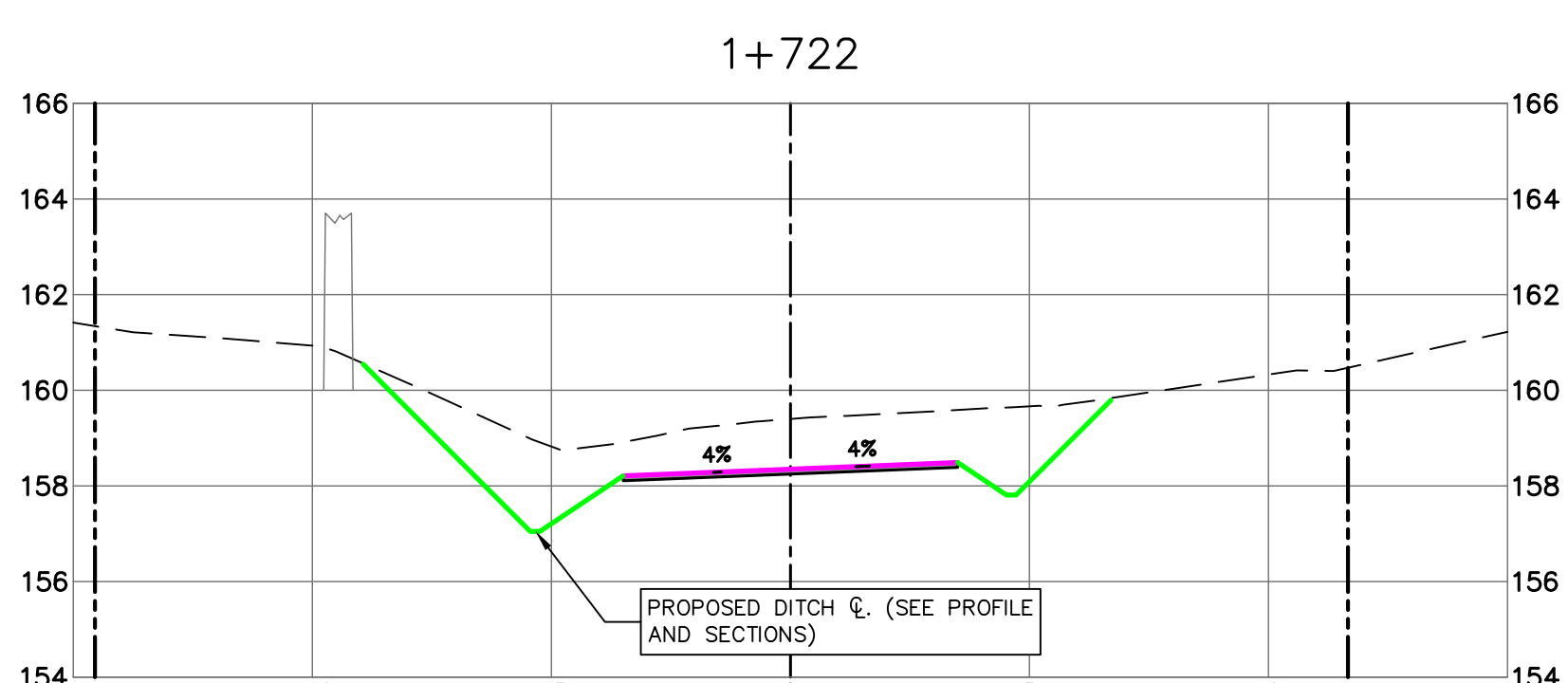
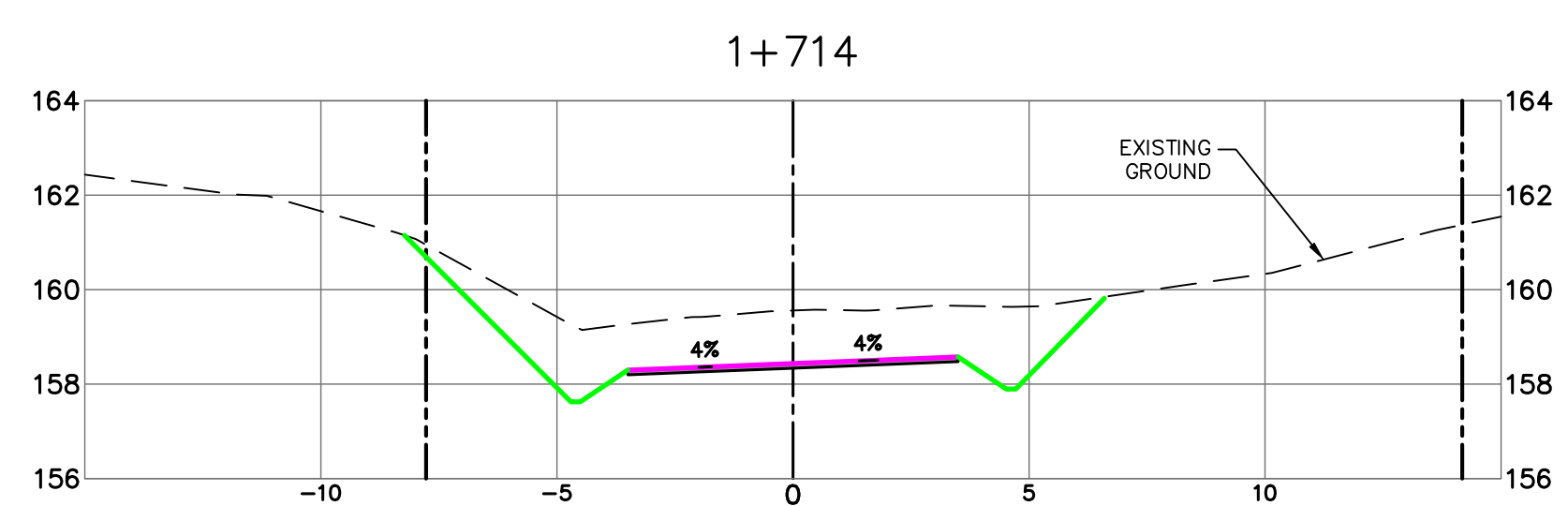
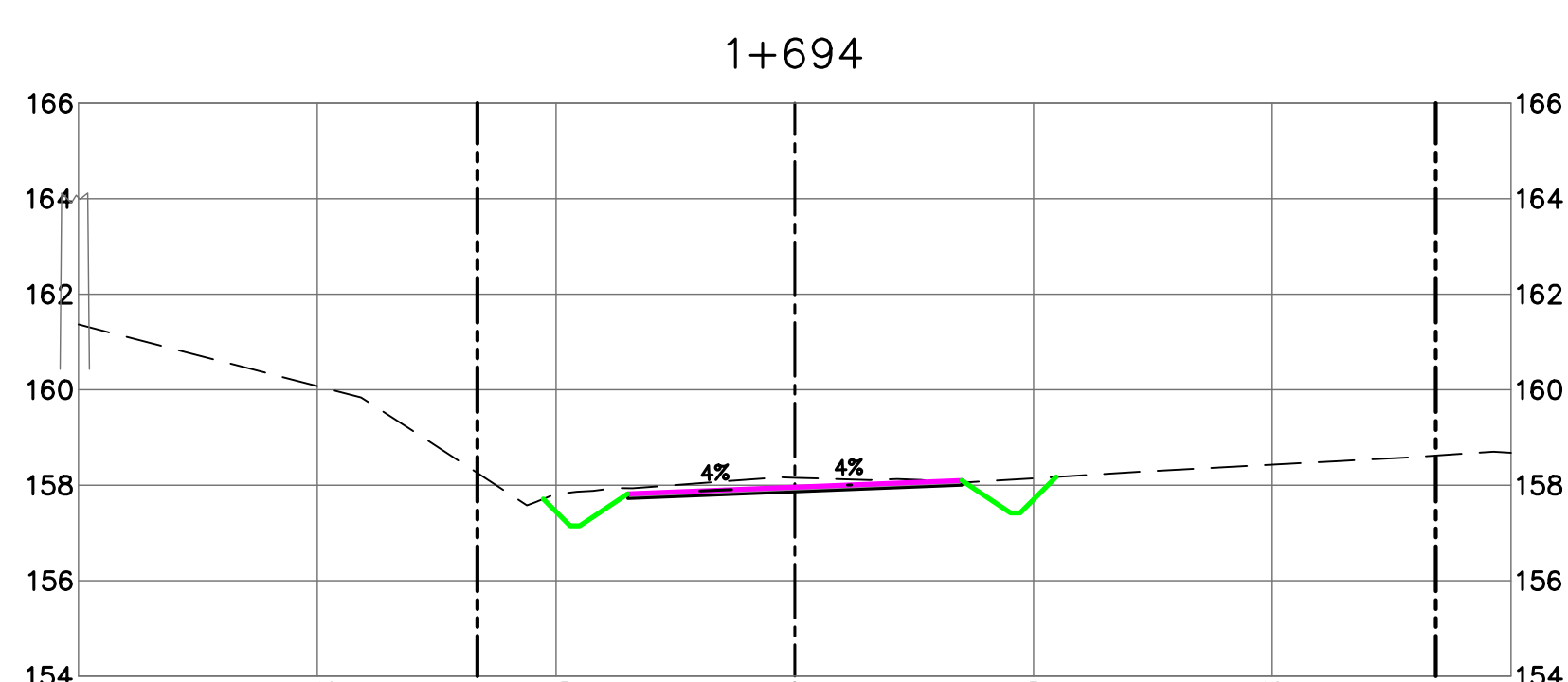
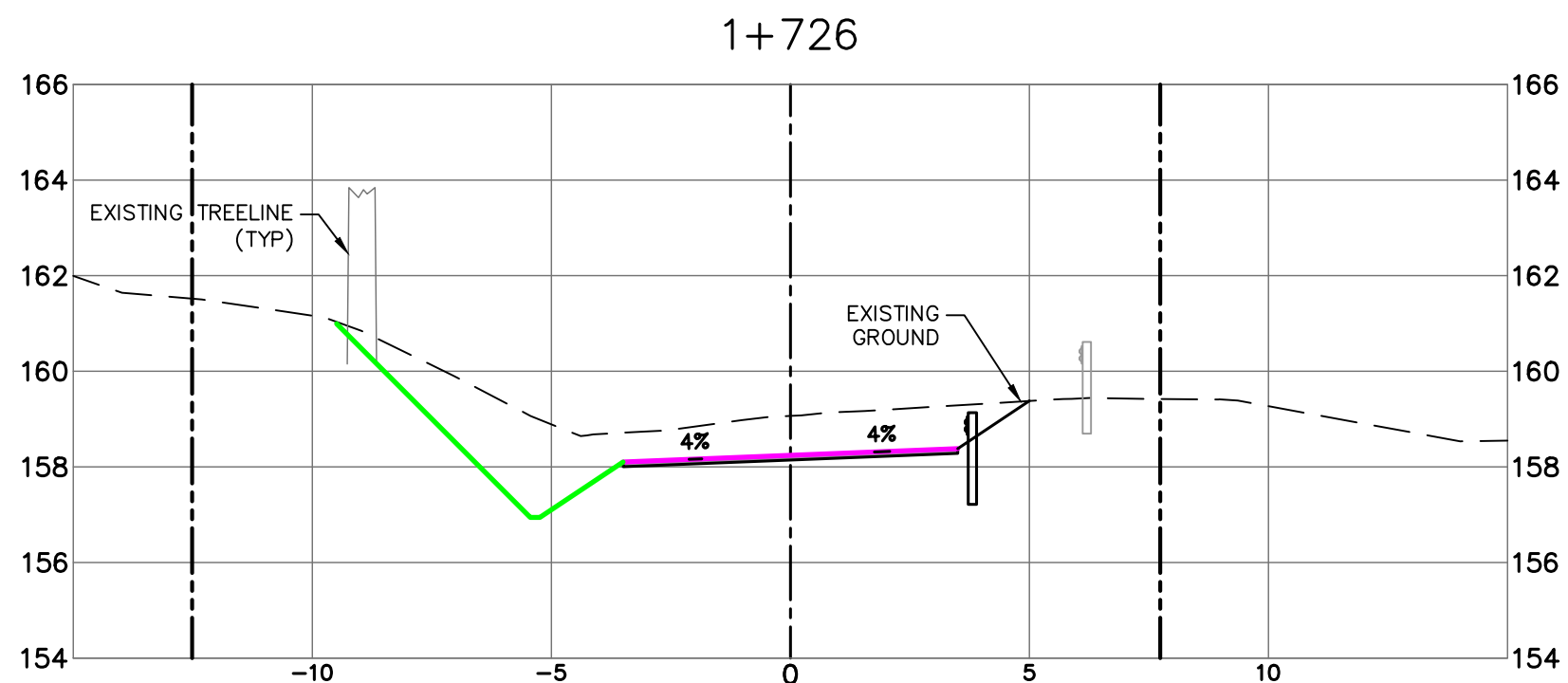
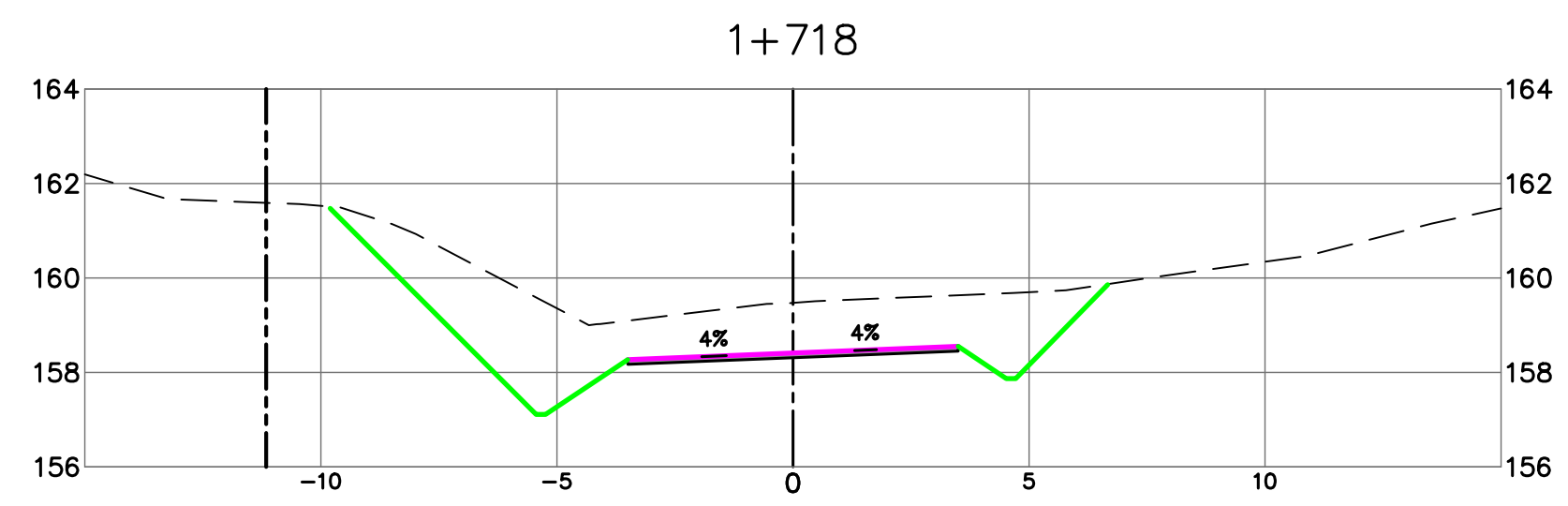
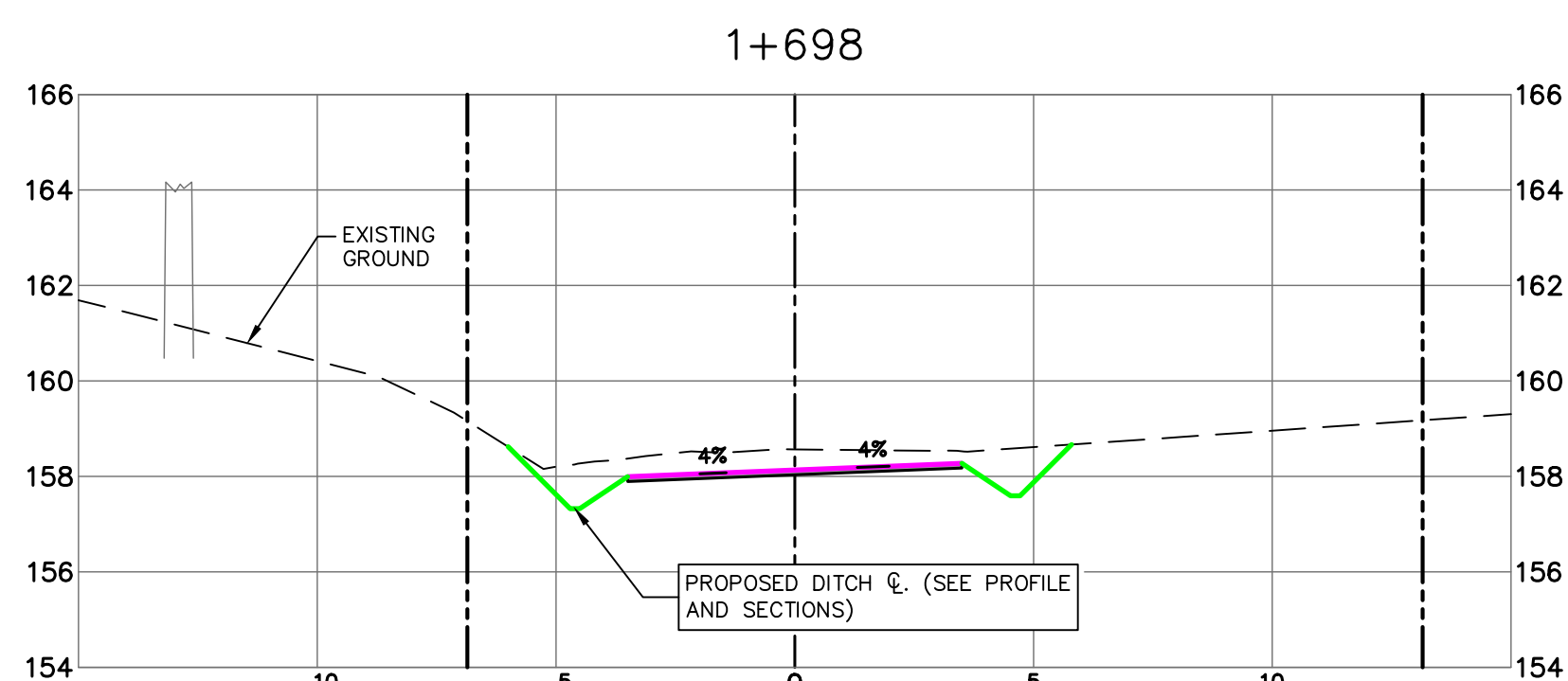
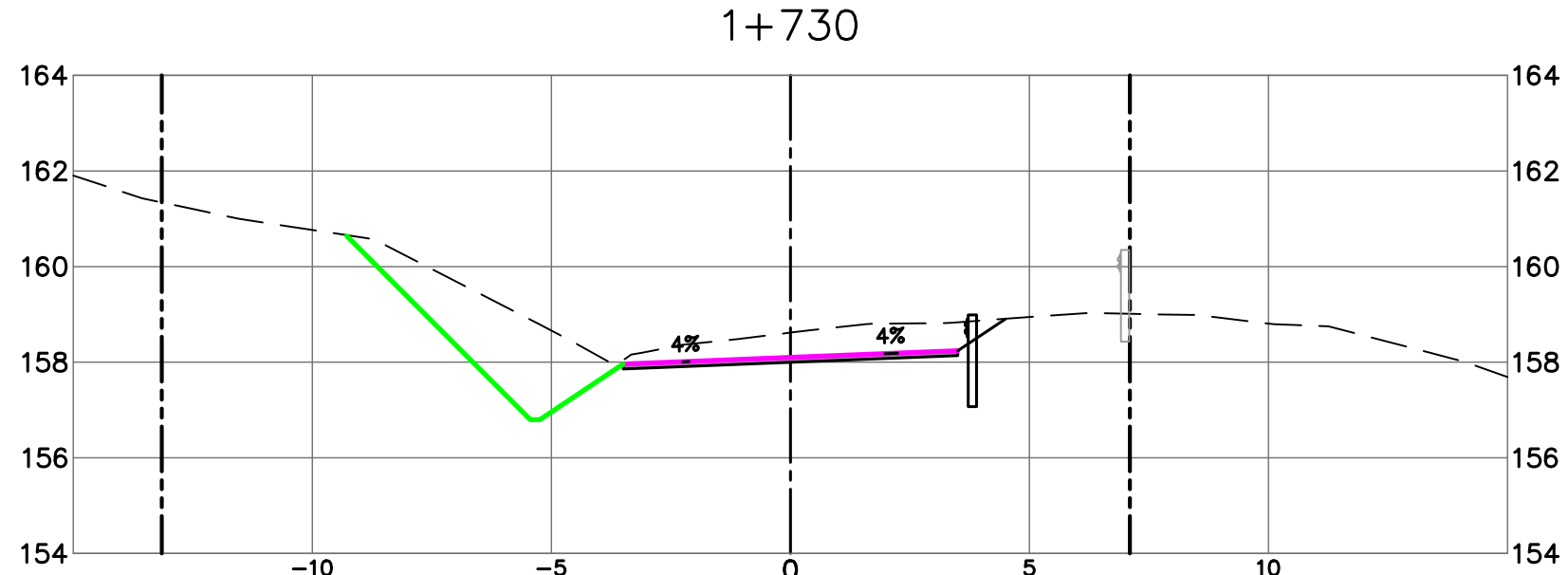
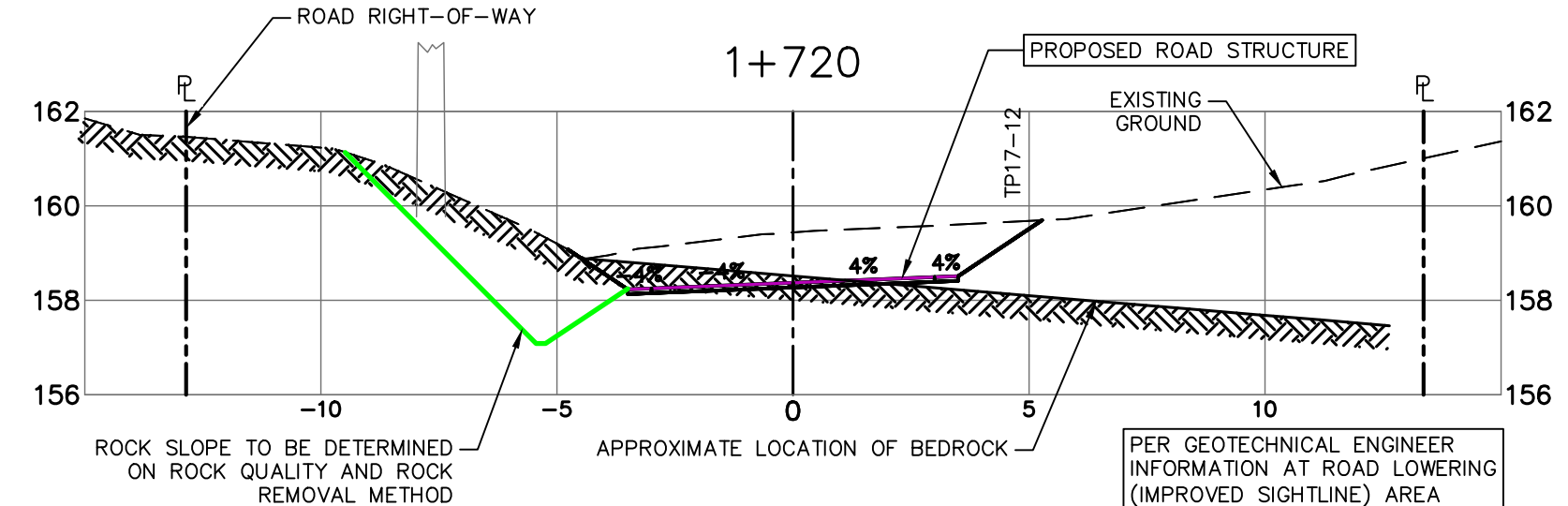
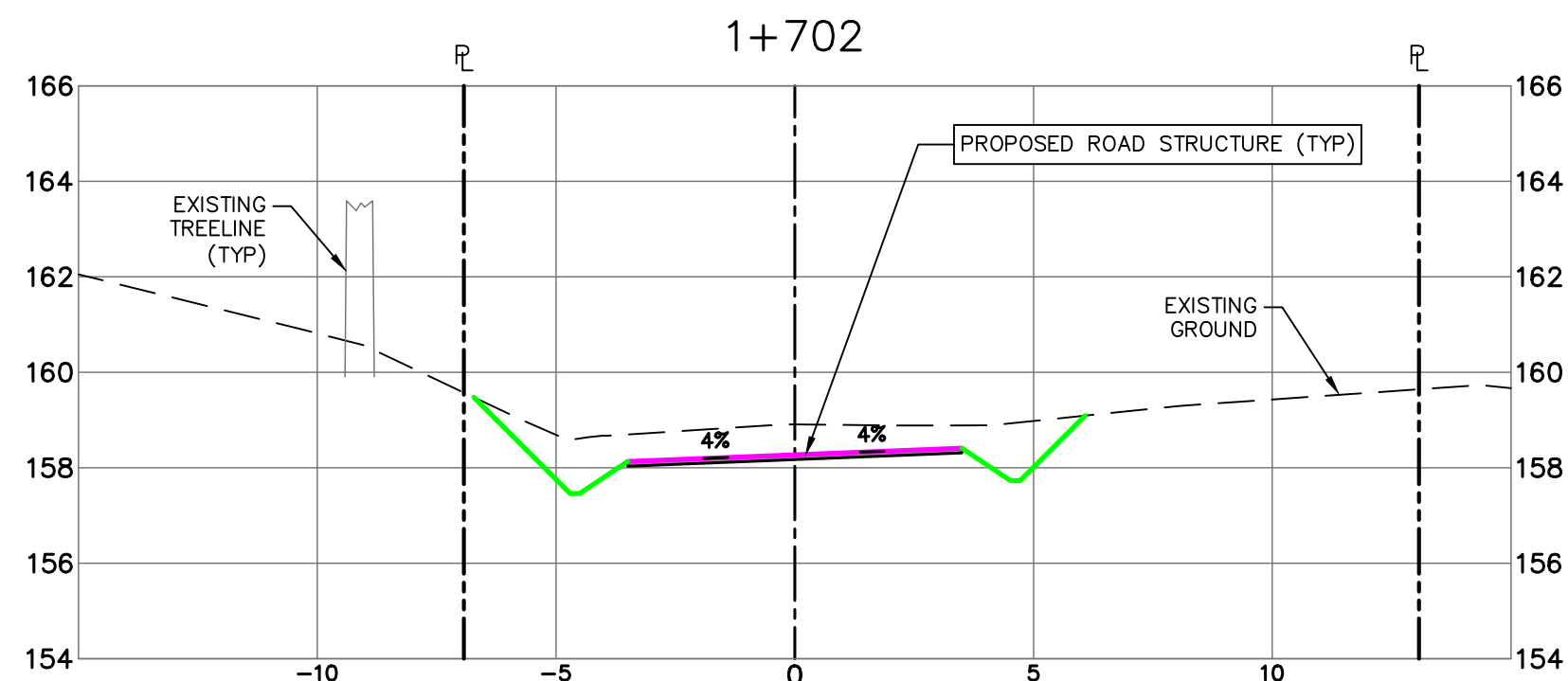
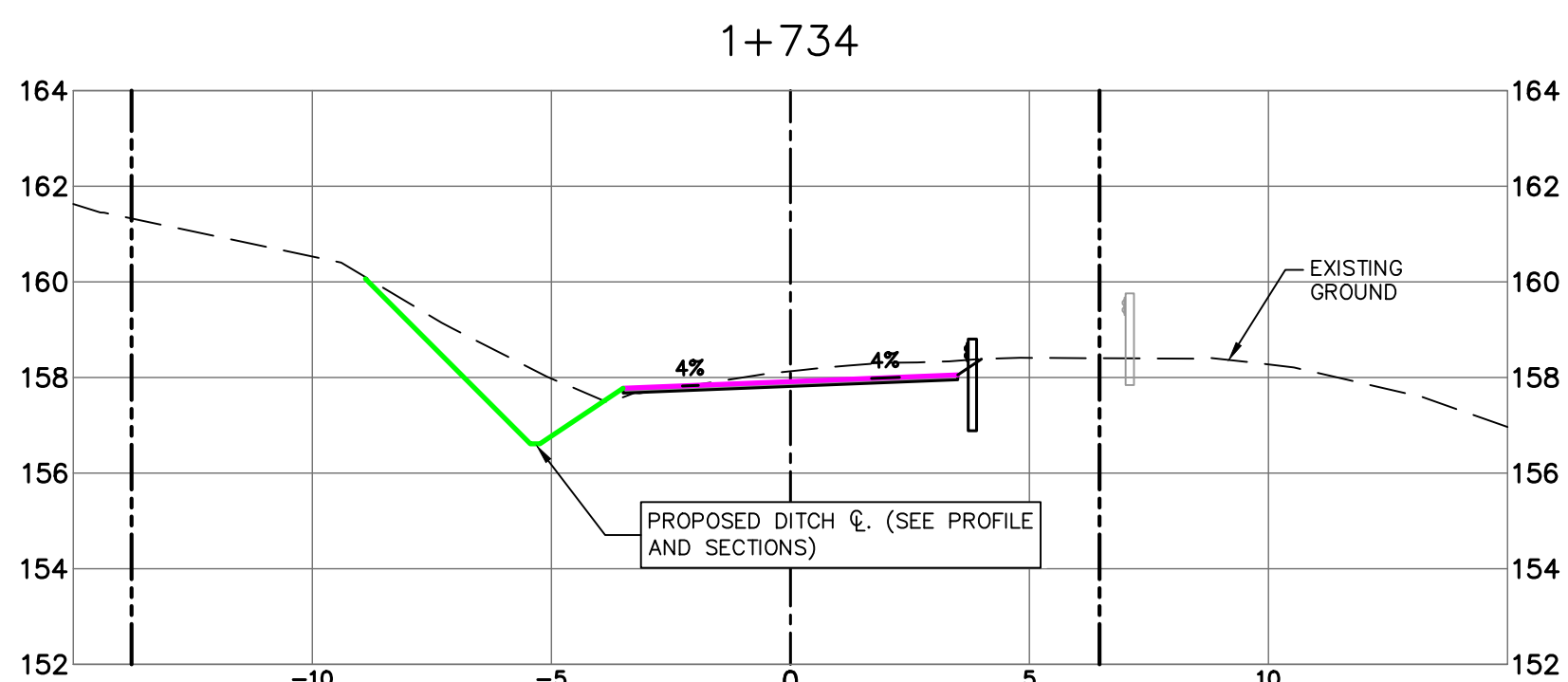
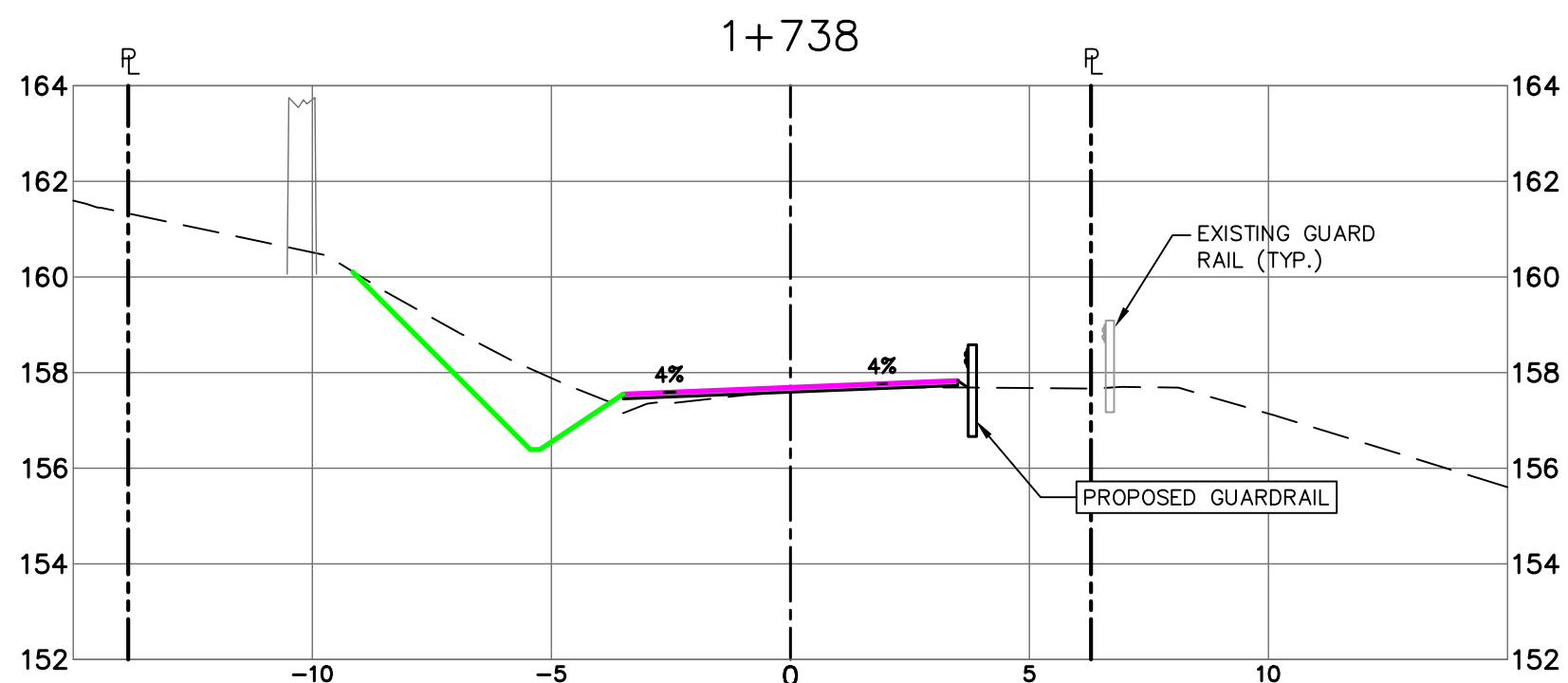
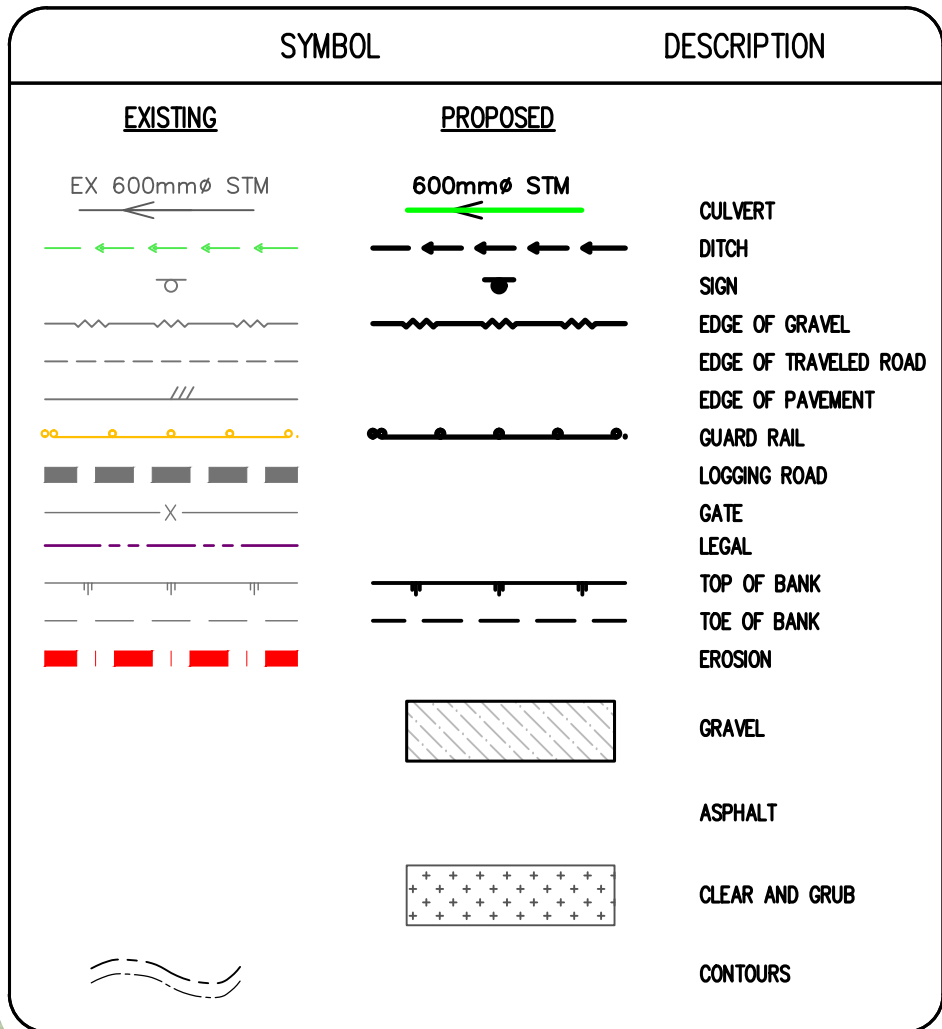
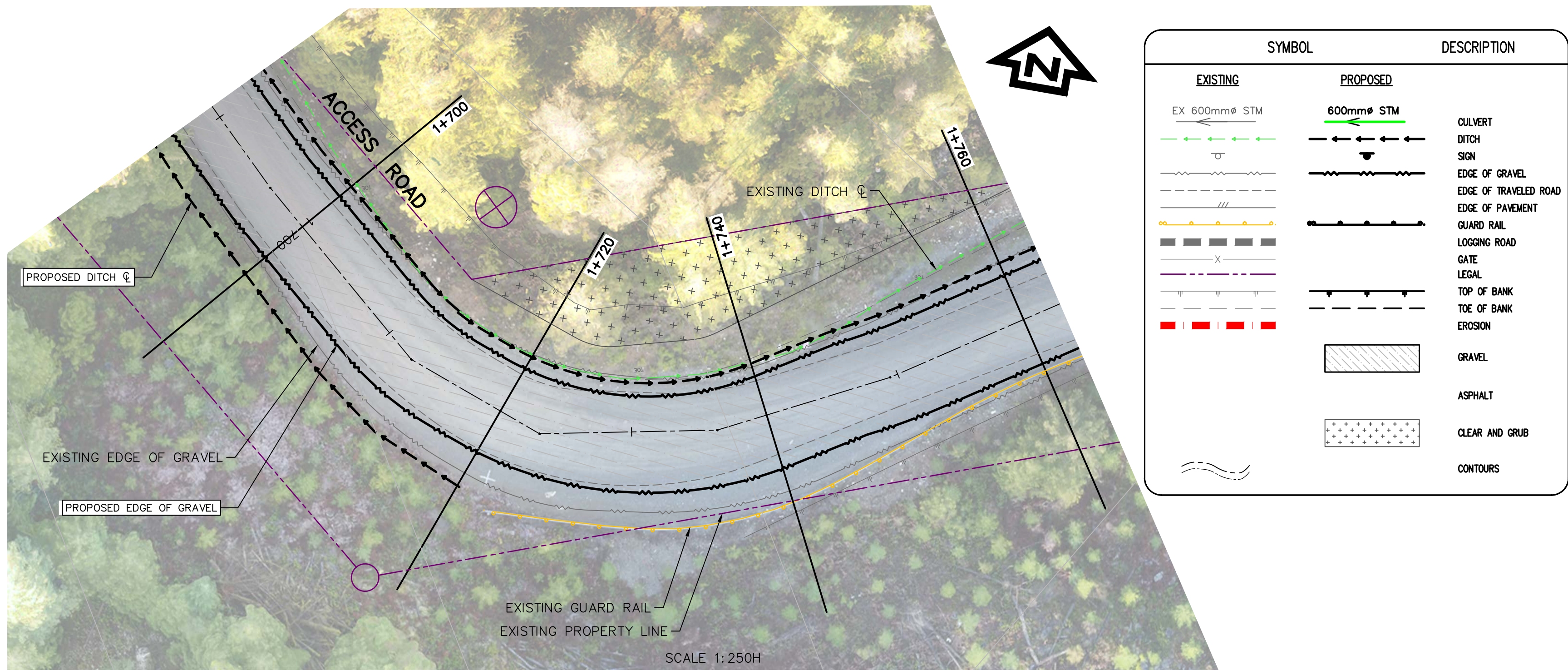
ROAD WORKS

STORM WORKS

EX ELEV STATION

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5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
2	99% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

Client/client

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PUBLIC WORKS AND
GOVERNMENT SERVICES

Project title/Titre du projet

ACCESS ROAD
AND
CULVERT UPGRADES

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EAG

Drawn by/Dessiné par
TJD

PWGSC Project Manager/Administrateur de Projets TPSCG
TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

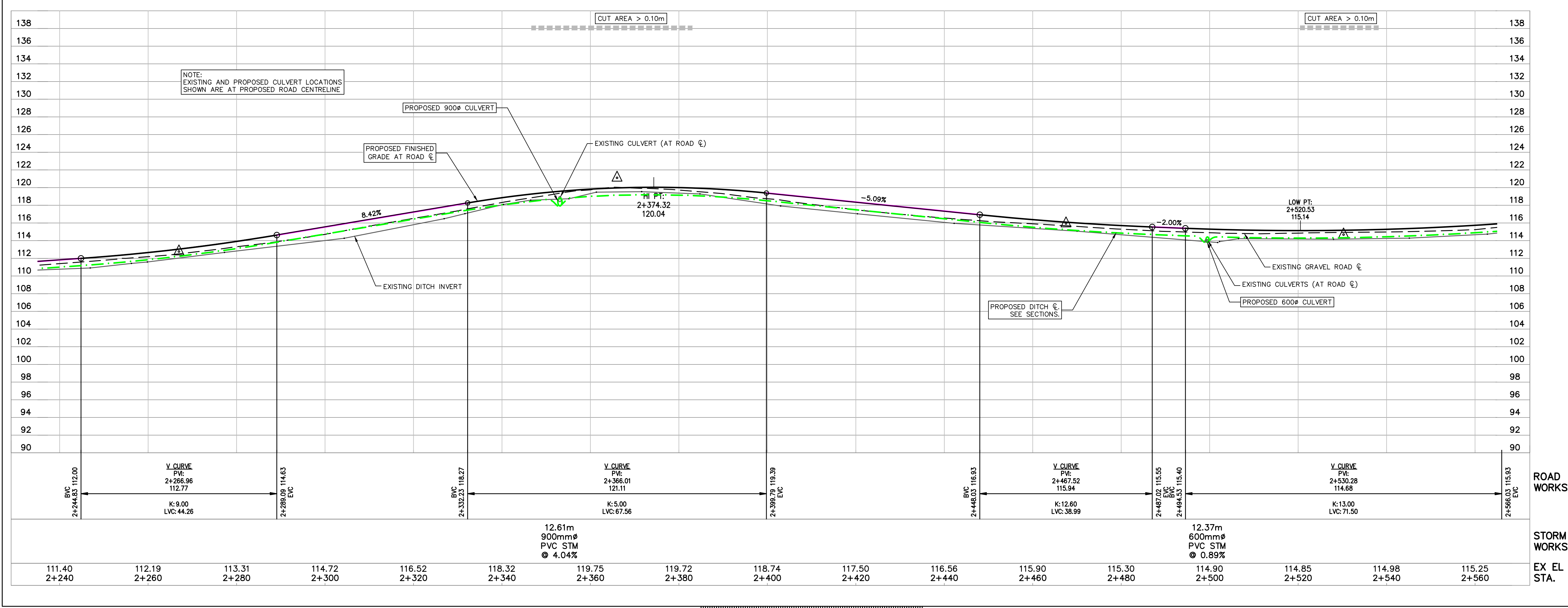
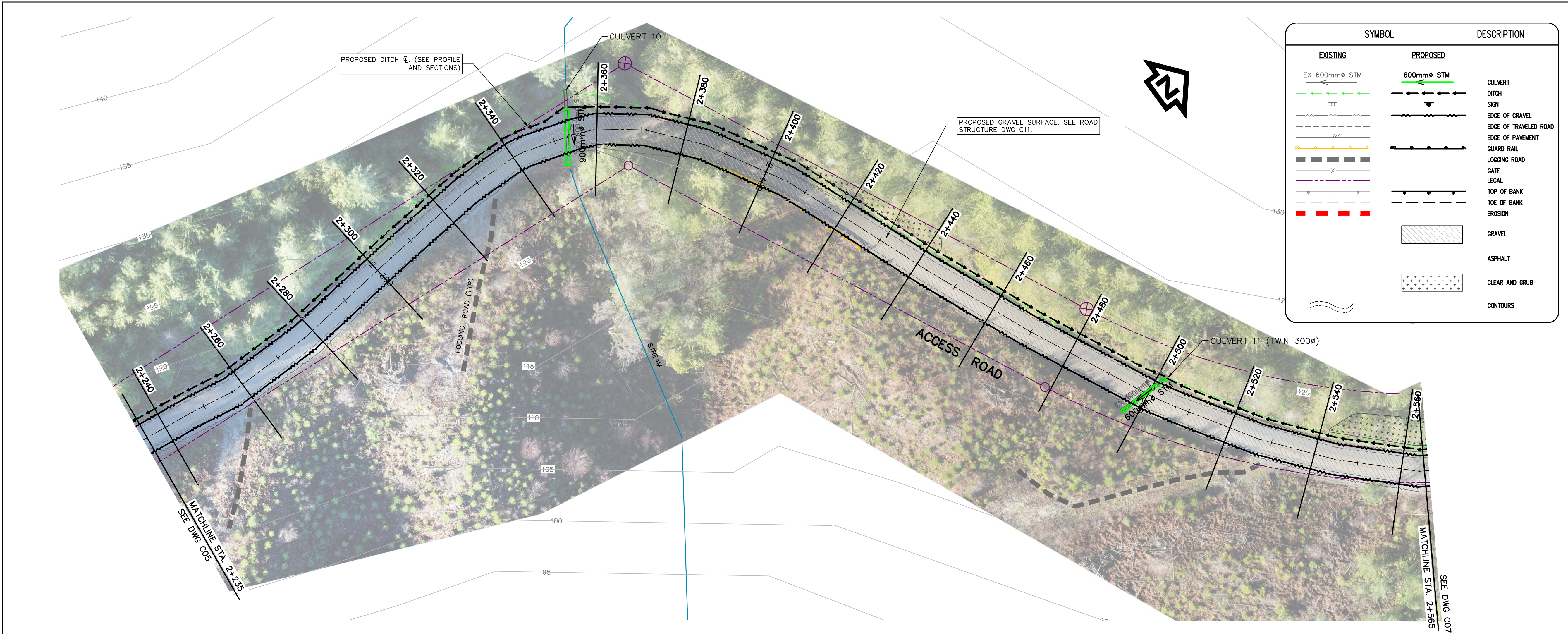
Drawing title/Titre du dessin


ROAD AND EROSION REPAIR
ROAD LOWERING (SIGHTLINE)
STATION 1+691 TO 1+737
PLAN AND SECTIONS

Project No./No. du projet R.093708.001	Sheet/ Feuille C04 B	Revision no./ La Révision no. 5
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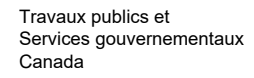


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0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

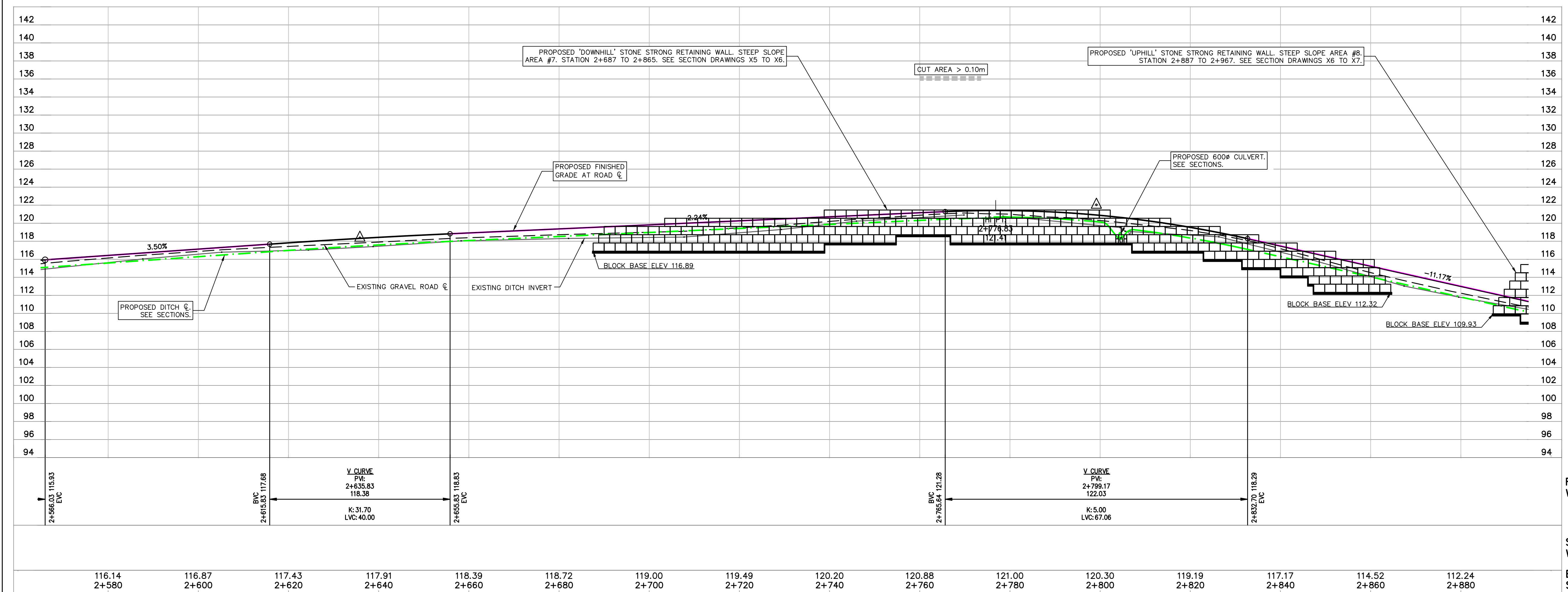
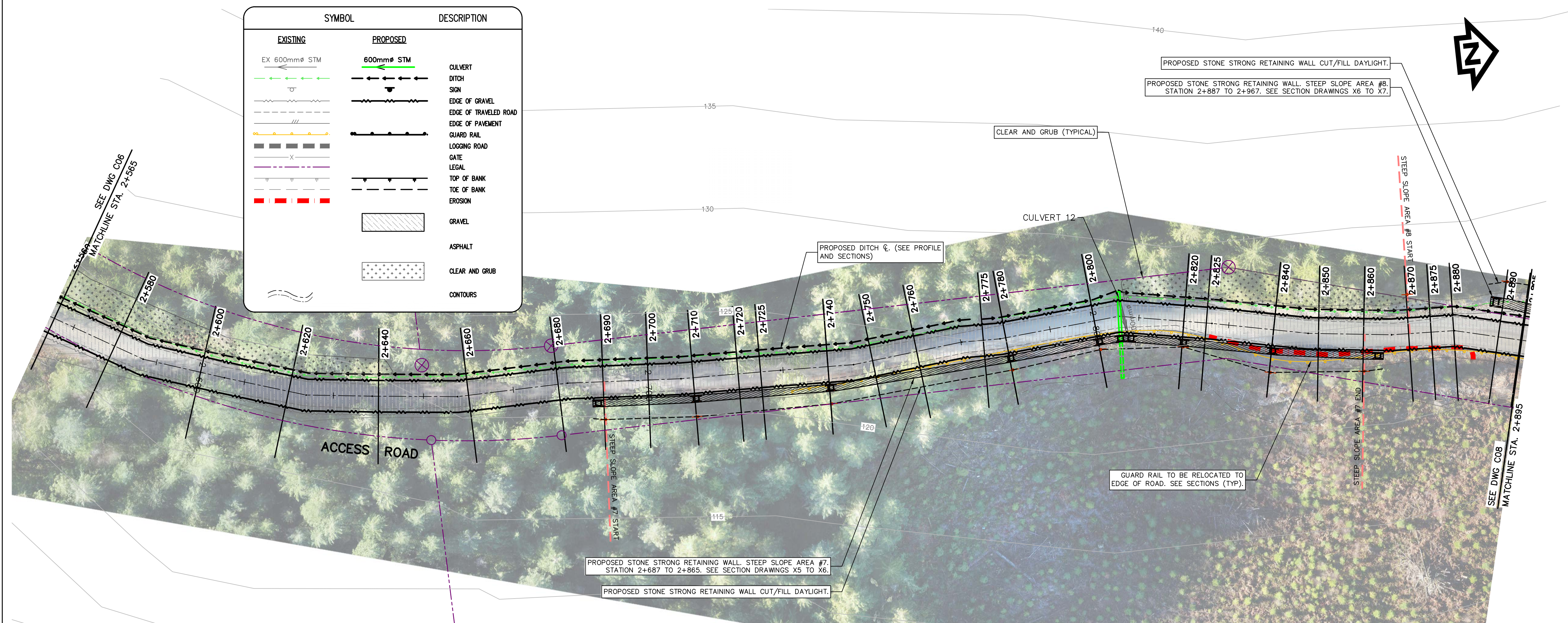
Revision/Revisão	Description/Description	Date/Date
Client/client		
CANADA PUBLIC WORKS AND GOVERNMENT SERVICES		
Project Title/Titre du projet ACCESS ROAD AND CULVERT UPGRADES		
Consultant Signature Only WEDLER ENGINEERING LLP		
Designed by/Concept par EAG		
Drawn by/Dessiné par TJD		
PWGSC Project Manager/Administrateur de Projets TPSC TONY TANG, P.Eng.		
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architecture et de génie, TPSC		
Drawing Title/Titre du dessin ROAD AND EROSION REPAIR STATION 2+235 TO 2+565 PLAN AND PROFILE		
Project No./No. du projet R.093708.001	Sheet/Feuille C06	Revision no./ Lo. Révision no. 5

ROAD WORKS

STORM WORKS

EX EL STA.





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4	ISSUED FOR TENDER	2020/06/15
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1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/21
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06
Revision/	Description/Description	Date/Date

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Project title/Titre du projet

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Designed by/Concept par
5A2

Drawn by/Dessine par

13D	PWGSC Project Manager/Administrateur de Projets TRSGC
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TONY TANG, P.Eng.

Drawing title/Titre du dessin

ROAD WORKS

STORM
WORKS

EX EL
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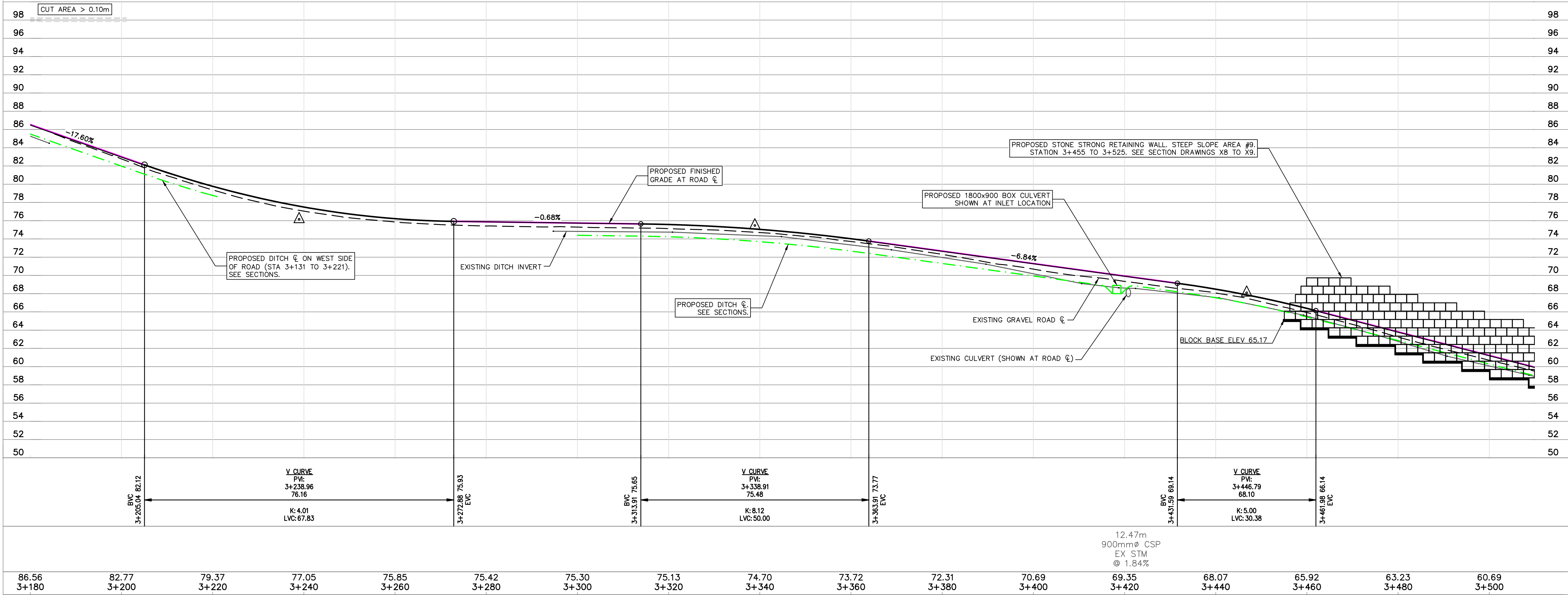
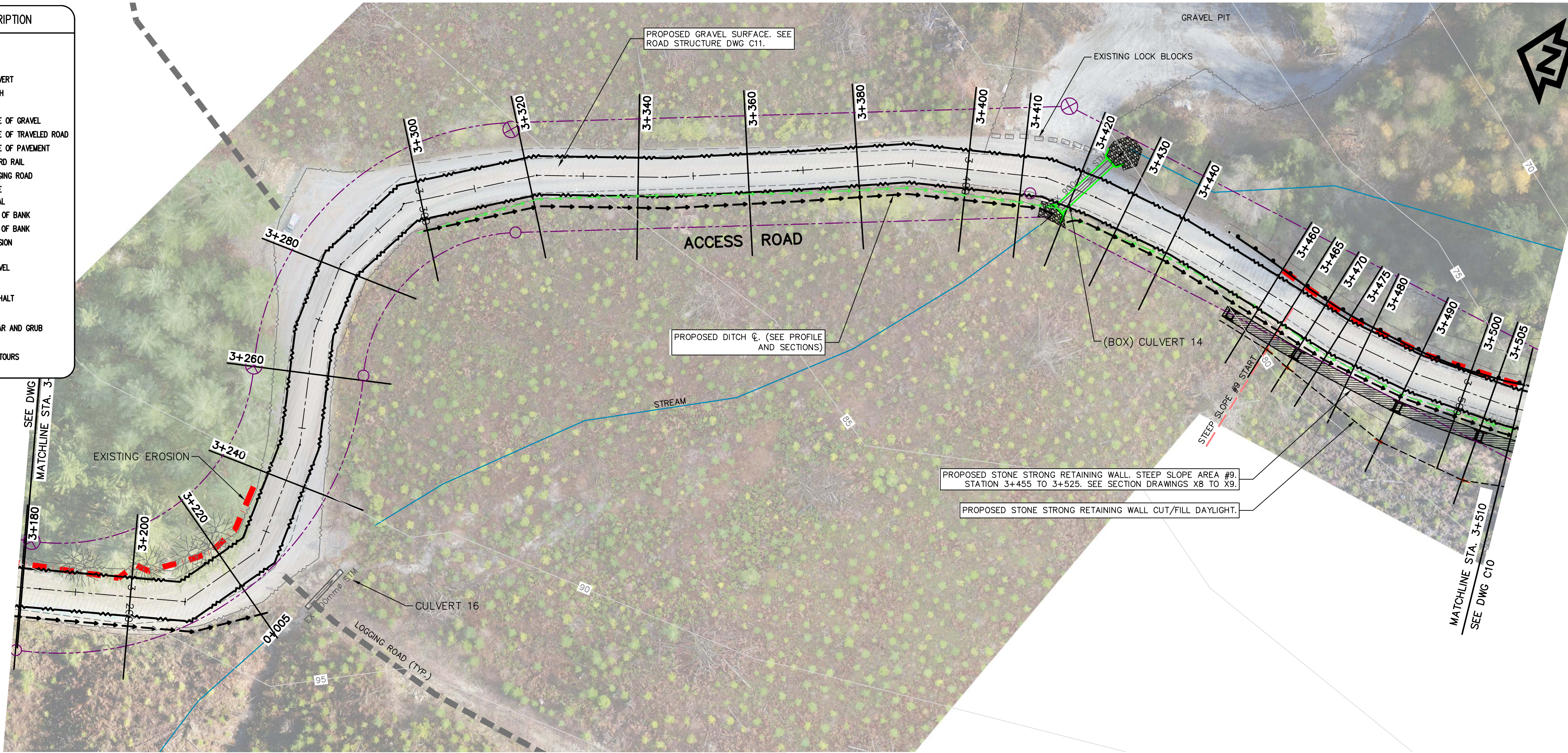
ROAD AND EROSION REPAIR STATION 2+565 TO 2+895 PLAN AND PROFILE

Project No./No. du projet R.093708.001	Sheet/ Feuille C07	Revision no./ La Révision no. 5
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SYMBOL		DESCRIPTION
EXISTING	PROPOSED	
EX 600mm \varnothing STM	600mm \varnothing STM	CULVERT
		DITCH
		SIGN
		EDGE OF GRAVEL
		EDGE OF TRAVELED ROAD
		EDGE OF PAVEMENT
		GUARD RAIL
		LOGGING ROAD
		GATE
		LEGAL
		TOP OF BANK
		TOE OF BANK
		EROSION
		GRAVEL
		ASPHALT
		CLEAR AND GRUB
		CONTOURS



SCALE 1:500H, 1:250V




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0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

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GOVERNMENT SERVICES

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AND
CULVERT UPGRADES

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Drawn by/Dessiné par
TJD
PWGSC Project Manager/Administrateur de Projets TPSCG
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

Drawing Title/Titre du dessin

ROAD WORKS

STORM WORKS

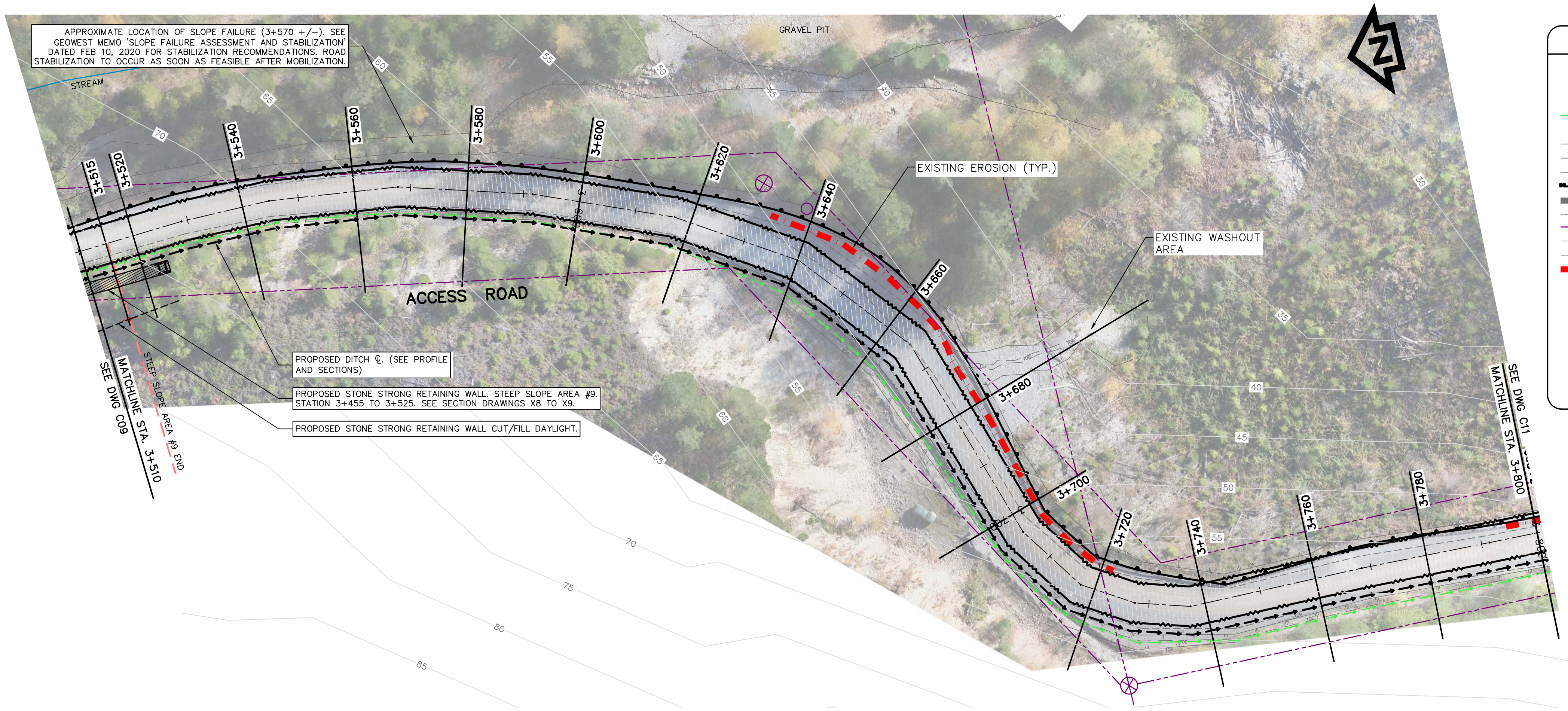
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ROAD AND EROSION REPAIR
STATION 3+180 TO 3+510
PLAN AND PROFILE

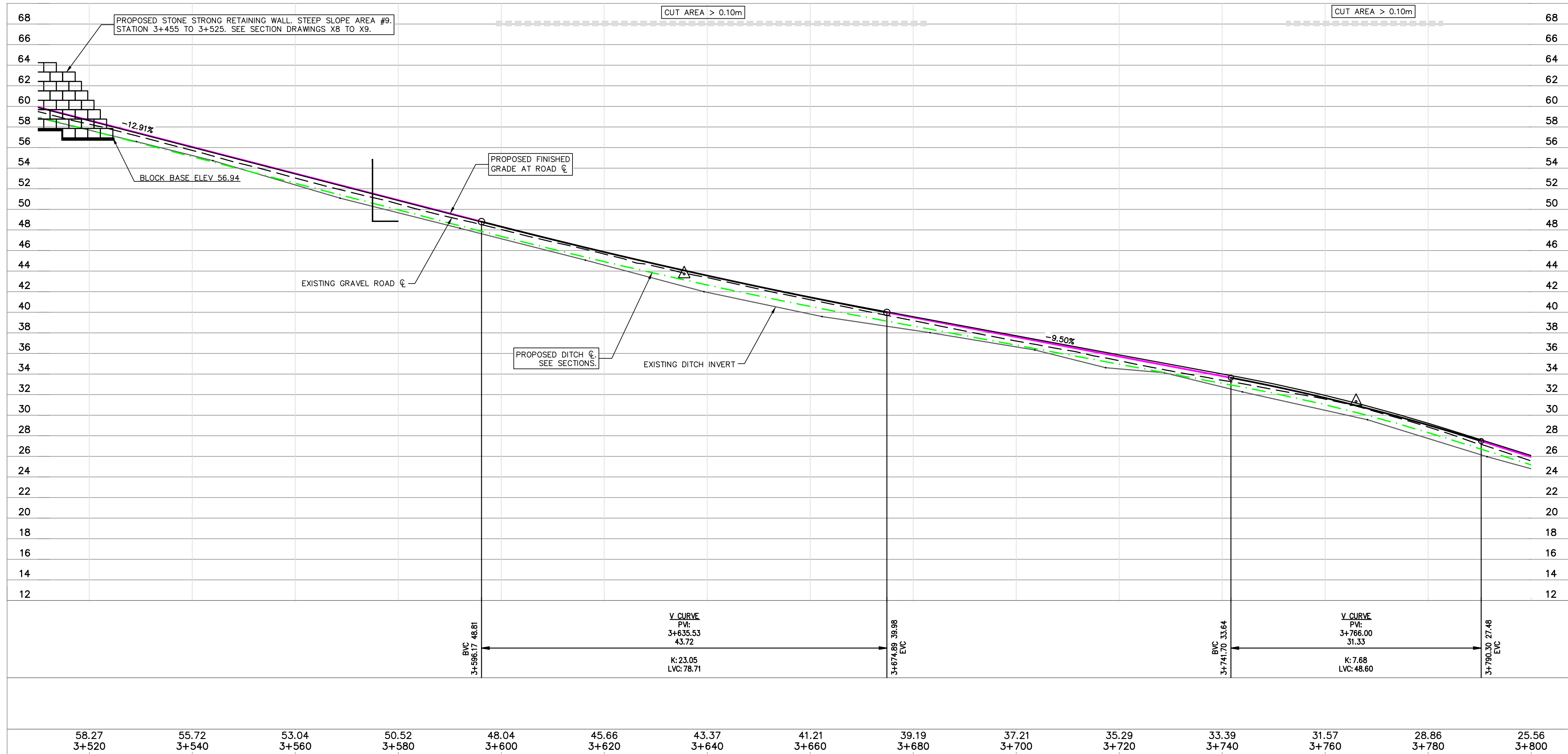
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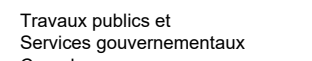
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EXISTING	PROPOSED	
EX 600mm STM	600mm STM	CULVERT
		DITCH
		SIGN
		EDGE OF GRAVEL
		EDGE OF TRAVELED ROAD
		EDGE OF PAVEMENT
		GUARD RAIL
		LOGGING ROAD
		GATE
		LEGAL
		TOP OF BANK
		TOE OF BANK
		EROSION
		GRAVEL
		ASPHALT
		CLEAR AND GRUB
		CONTOURS



SCALE 1:500H, 1:250V




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1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

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Révision

Description/Description

Date/Date

Client/client

CANADA
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GOVERNMENT SERVICES

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AND
CULVERT UPGRADES

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EAG

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TJD

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TONY TANG, P.Eng.

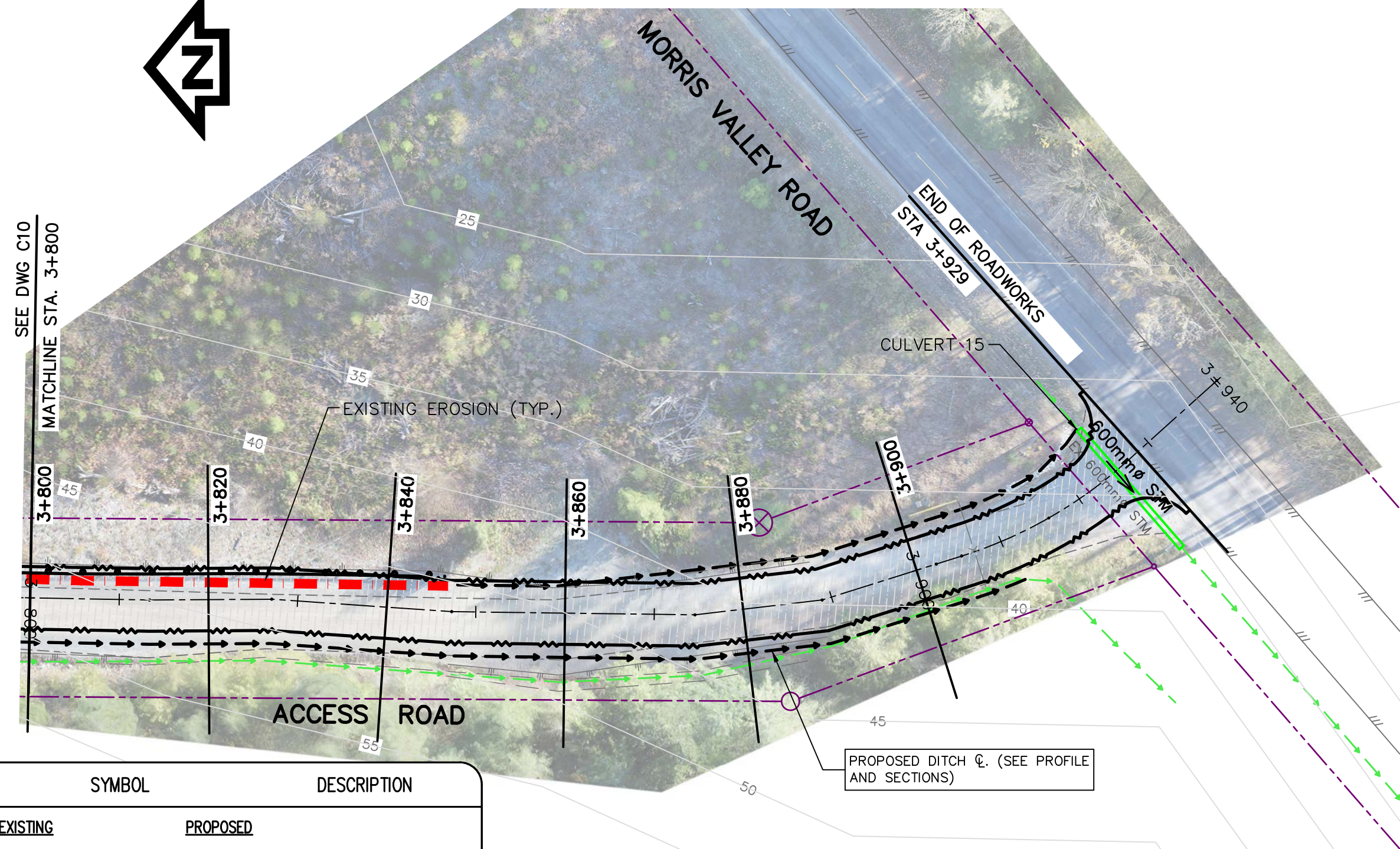
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Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing Title/Titre du dessin

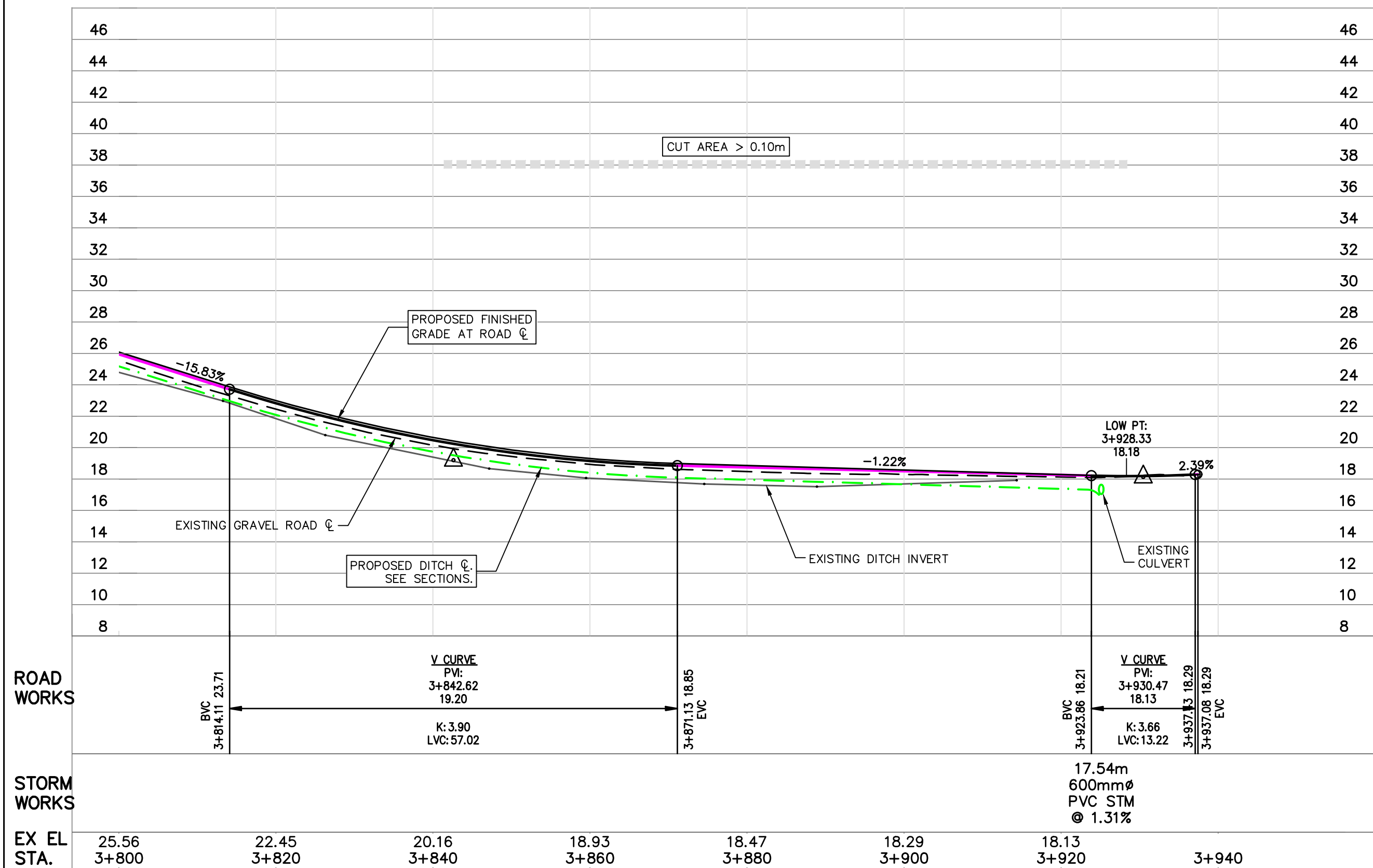
ROAD AND EROSION REPAIR
STATION 3+510 TO 3+800
PLAN AND PROFILE

Project No./No. du projet R.093708.001	Sheet/ Feuille C10	Revision no./ La Révision no. 5
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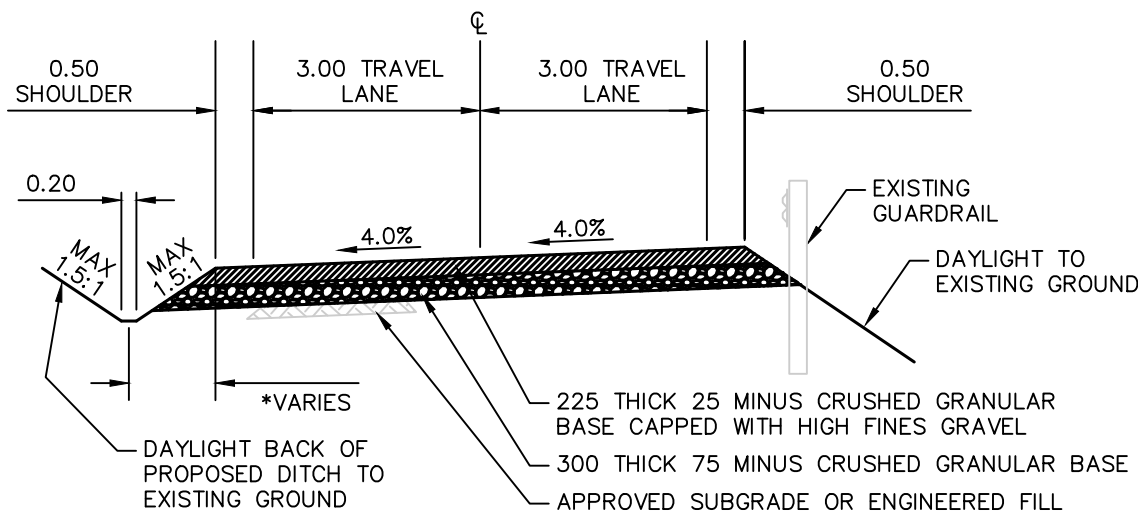


SYMBOL	DESCRIPTION
<u>EXISTING</u>	
EX 600mm Ø STM	CULVERT
	DITCH
	SIGN
	EDGE OF GRAVEL
	EDGE OF TRAVELED ROAD
	EDGE OF PAVEMENT
	GUARD RAIL
	LOGGING ROAD
	GATE
	LEGAL
	TOP OF BANK
	TOE OF BANK
	EROSION
	GRAVEL
	ASPHALT
	CLEAR AND GRUB
	CONTOURS



NOTES:

1. DITCH WILL BE LOCATED ON THE 'HIGH SIDE' OF THE ROAD. SEE PLAN AND PROFILE DRAWINGS.
2. FOR PROPOSED DITCH INVERTS, SEE PROFILE DRAWINGS.
3. DISTANCE FROM EDGE OF SHOULDER TO DITCH CENTRELINE VARIES. SEE PLAN AND PROFILE DRAWINGS.
4. BACKSIDE OF PROPOSED DITCH TO DAYLIGHT TO EXISTING GROUND.
5. 'LOW SIDE' OF ROAD TO DITCH TO EXISTING GROUND.
6. GRADE ROAD CROSSFALL 4% DOWNWARDS, FROM GUARDRAIL TOWARDS DITCH, AS SHOWN.

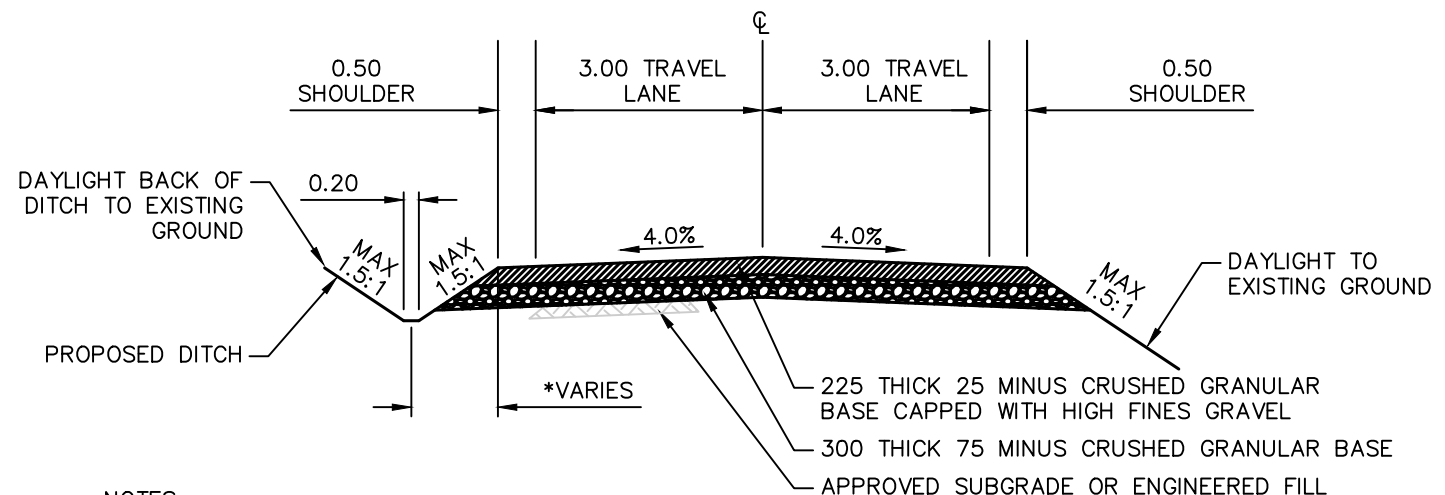


TYPICAL GRAVEL 'ONE-WAY CROSSFALL' ROAD SECTION

- NOTES:

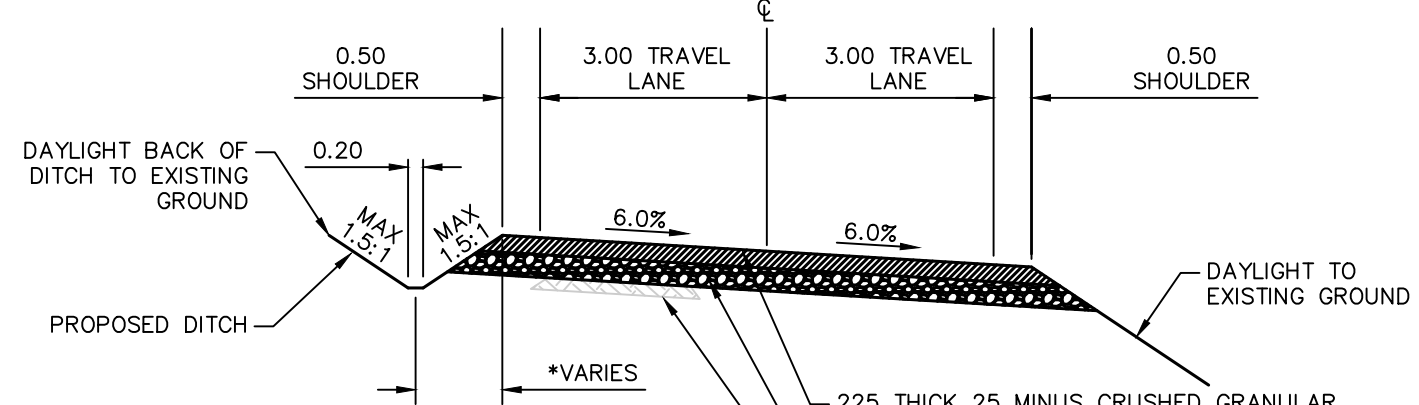
1. DITCH WILL BE LOCATED ON THE "HIGH SIDE" OF THE ROAD. SEE PLAN AND PROFILE DRAWINGS.
2. FOR PROPOSED DITCH INVERTS, SEE PROFILE DRAWINGS.
3. DISTANCE FROM EDGE OF SHOULDER TO DITCH CENTRELINE VARIES. SEE PLAN AND PROFILE DRAWINGS.
4. BACKSIDE OF PROPOSED DITCH TO DAYLIGHT TO EXISTING GROUND.
5. "LOW SIDE" OF ROAD TO DAYLIGHT TO EXISTING GROUND.

TYPICAL GRAVEL '4.0% CROWNED' ROAD SECTION



- NOTES:

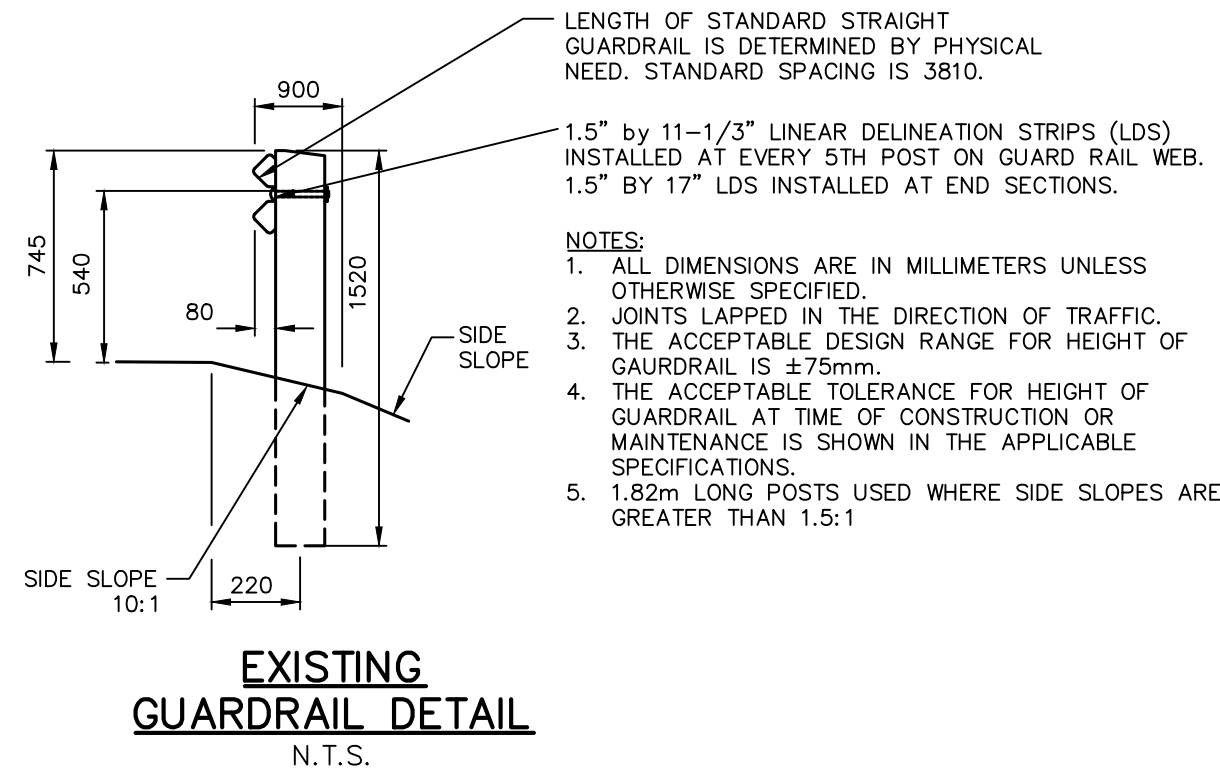
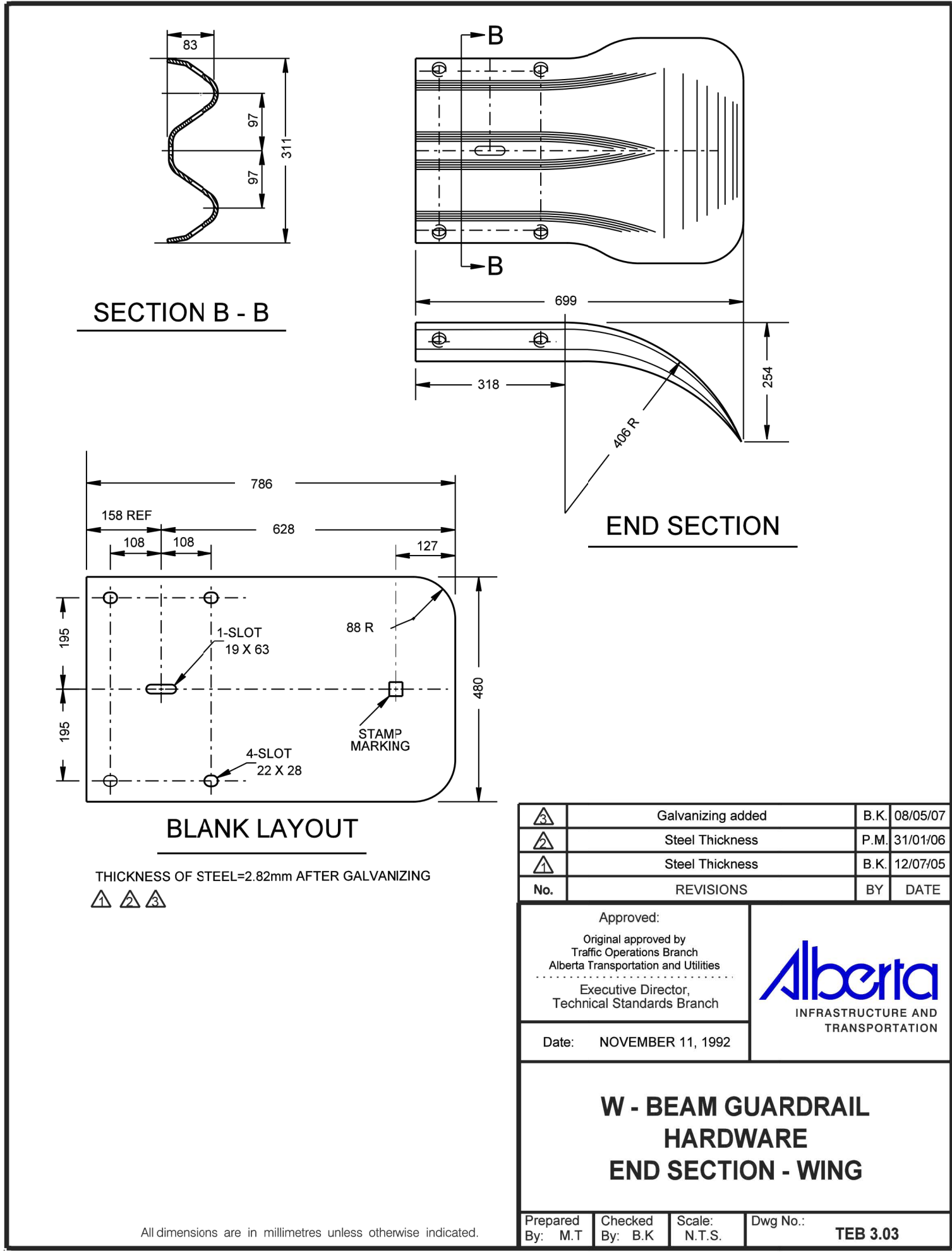
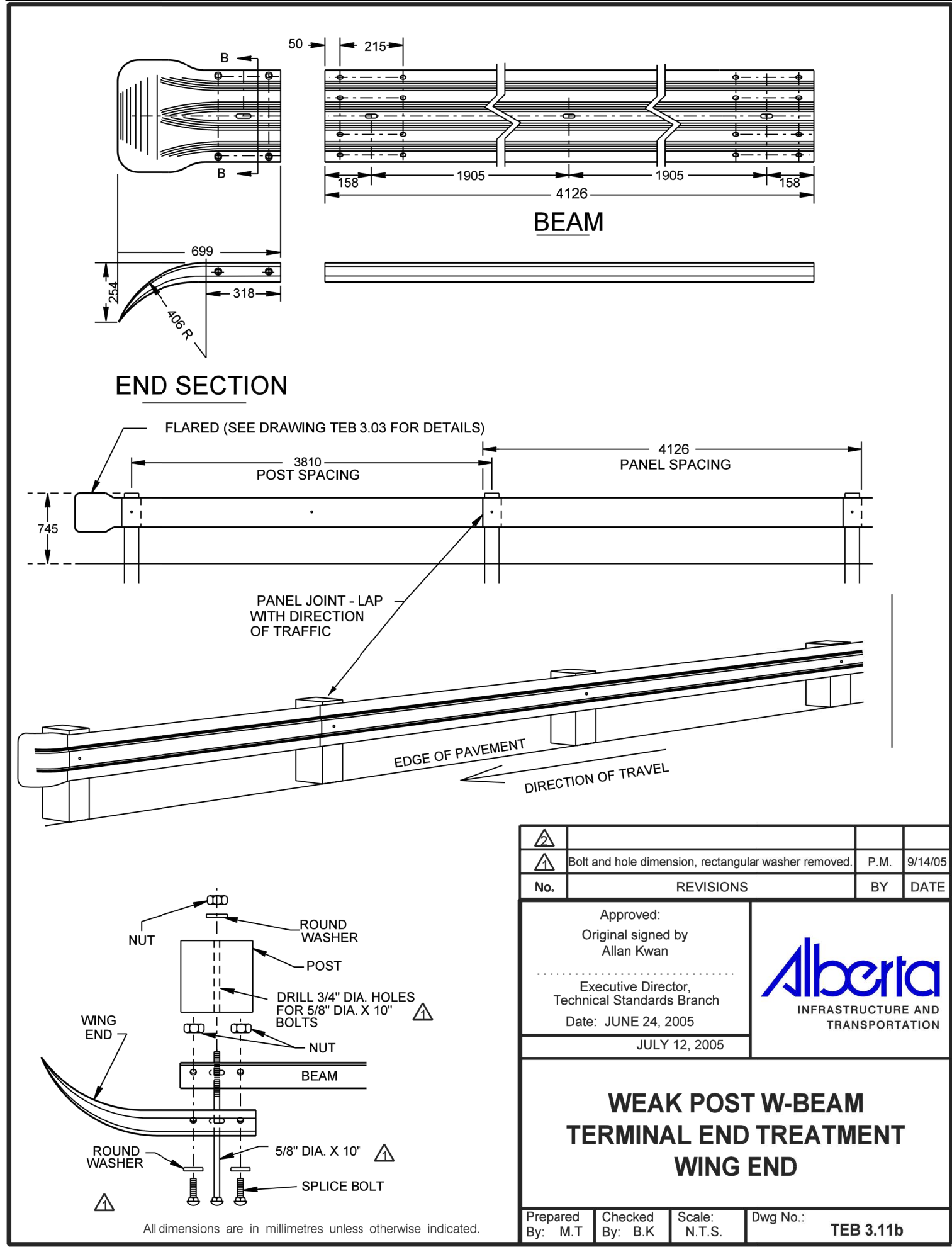
1. DITCH WILL BE LOCATED ON THE 'HIGH SIDE' OF THE ROAD. SEE PLAN AND PROFILE DRAWINGS.
2. FOR PROPOSED DITCH INVERTS, SEE PROFILE DRAWINGS.
3. DISTANCE FROM EDGE OF SHOULDER TO DITCH CENTRELINE VARIES. SEE PLAN AND PROFILE DRAWINGS.
4. BACKSIDE OF PROPOSED DITCH TO DAYLIGHT TO EXISTING GROUND.
5. 'LOW SIDE' OF ROAD TO DAYLIGHT TO EXISTING GROUND.
6. GRADE ROAD SUPERELEVATION 6% DOWNWARDS, TOWARDS CENTER OF CURVE.



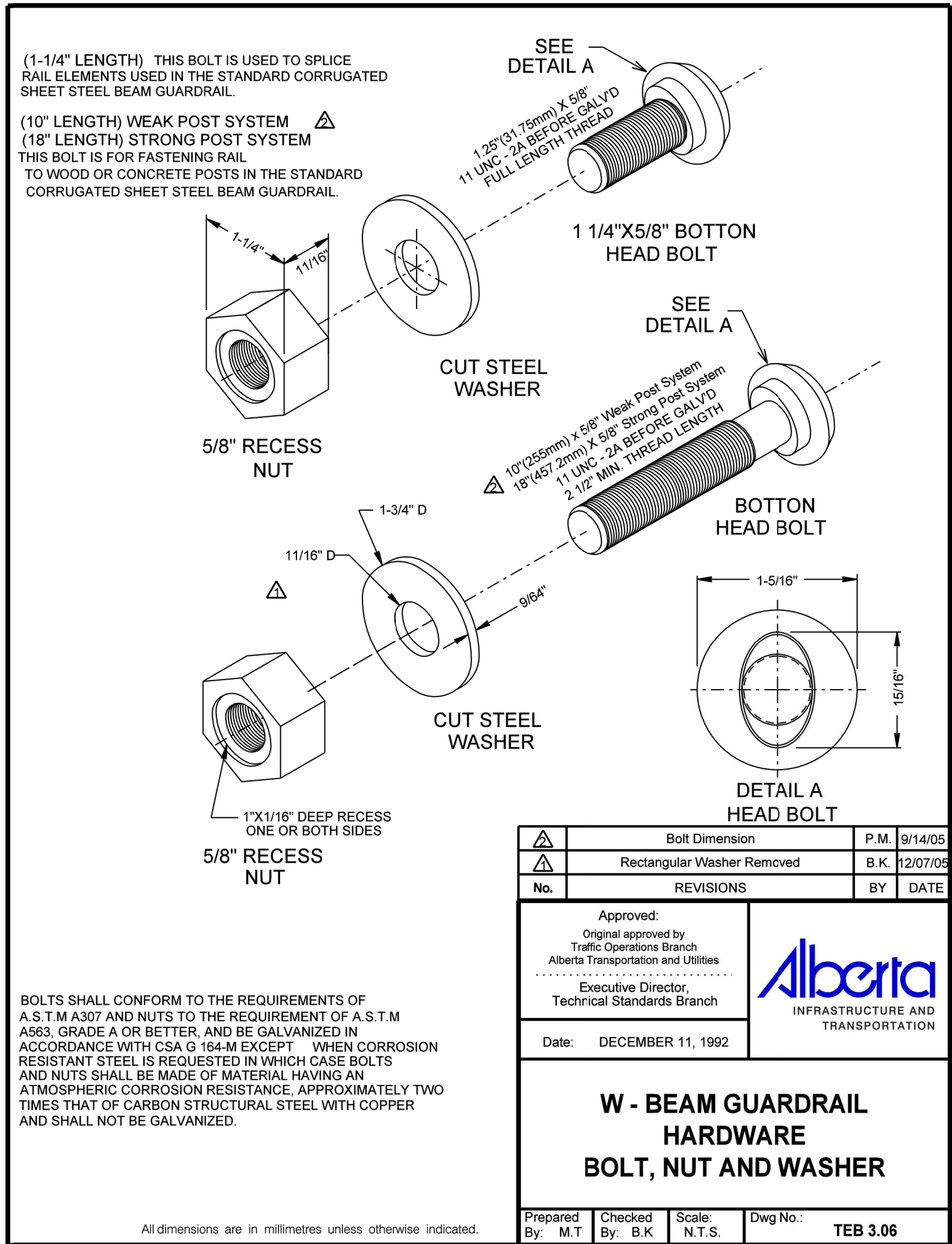
TYPICAL GRAVEL 'SUPERELEVATION' ROAD SECTION



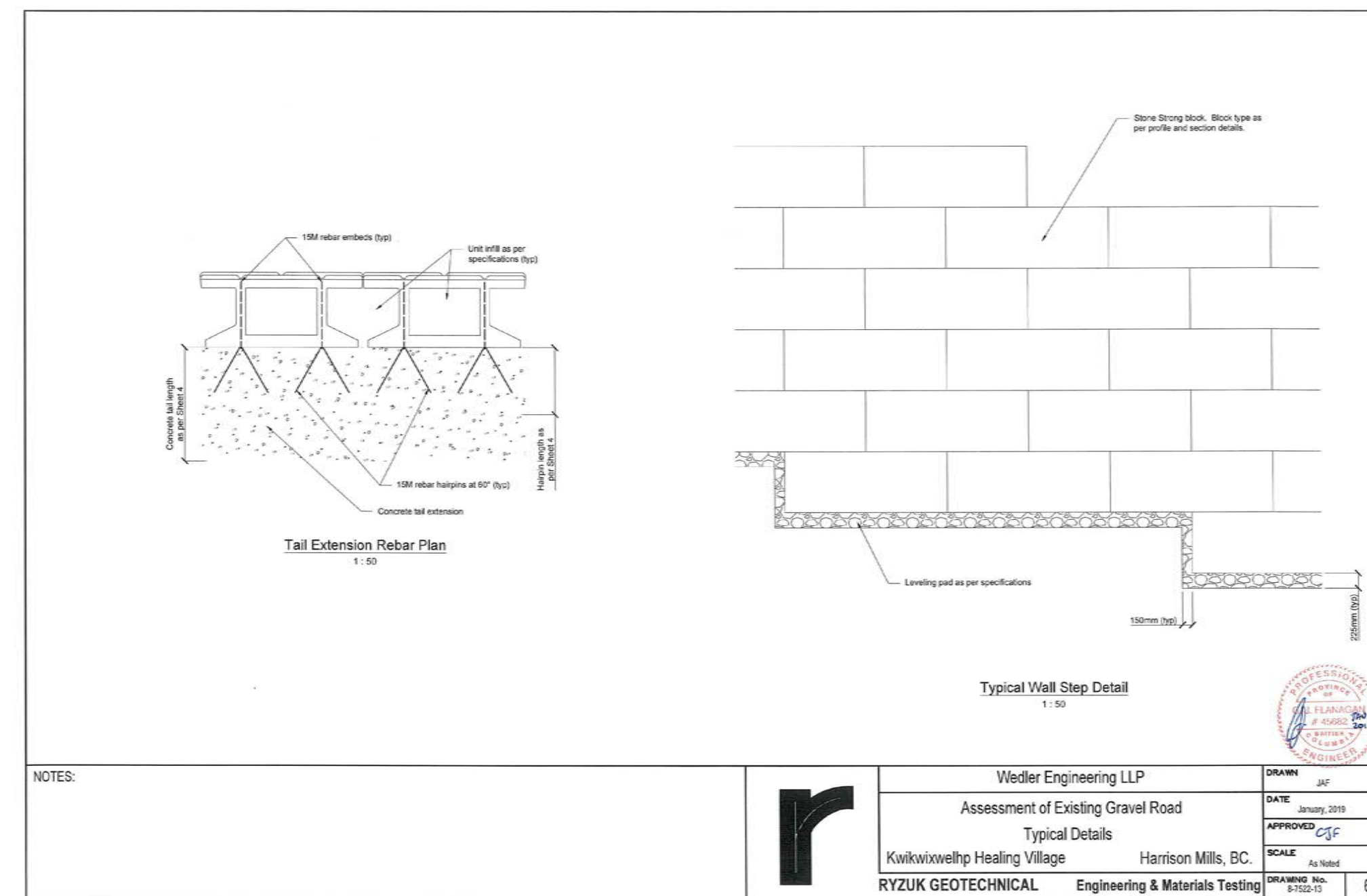
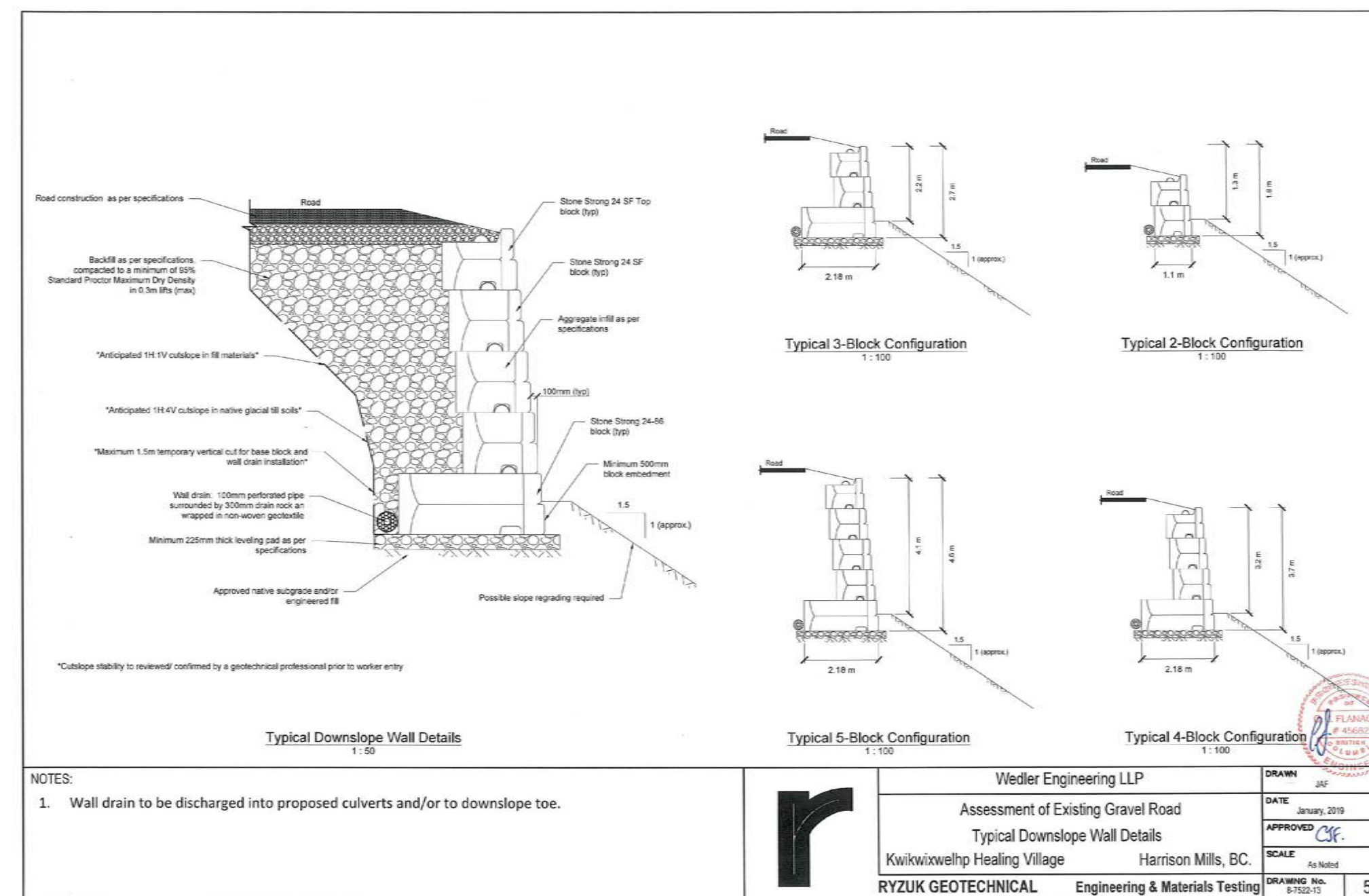
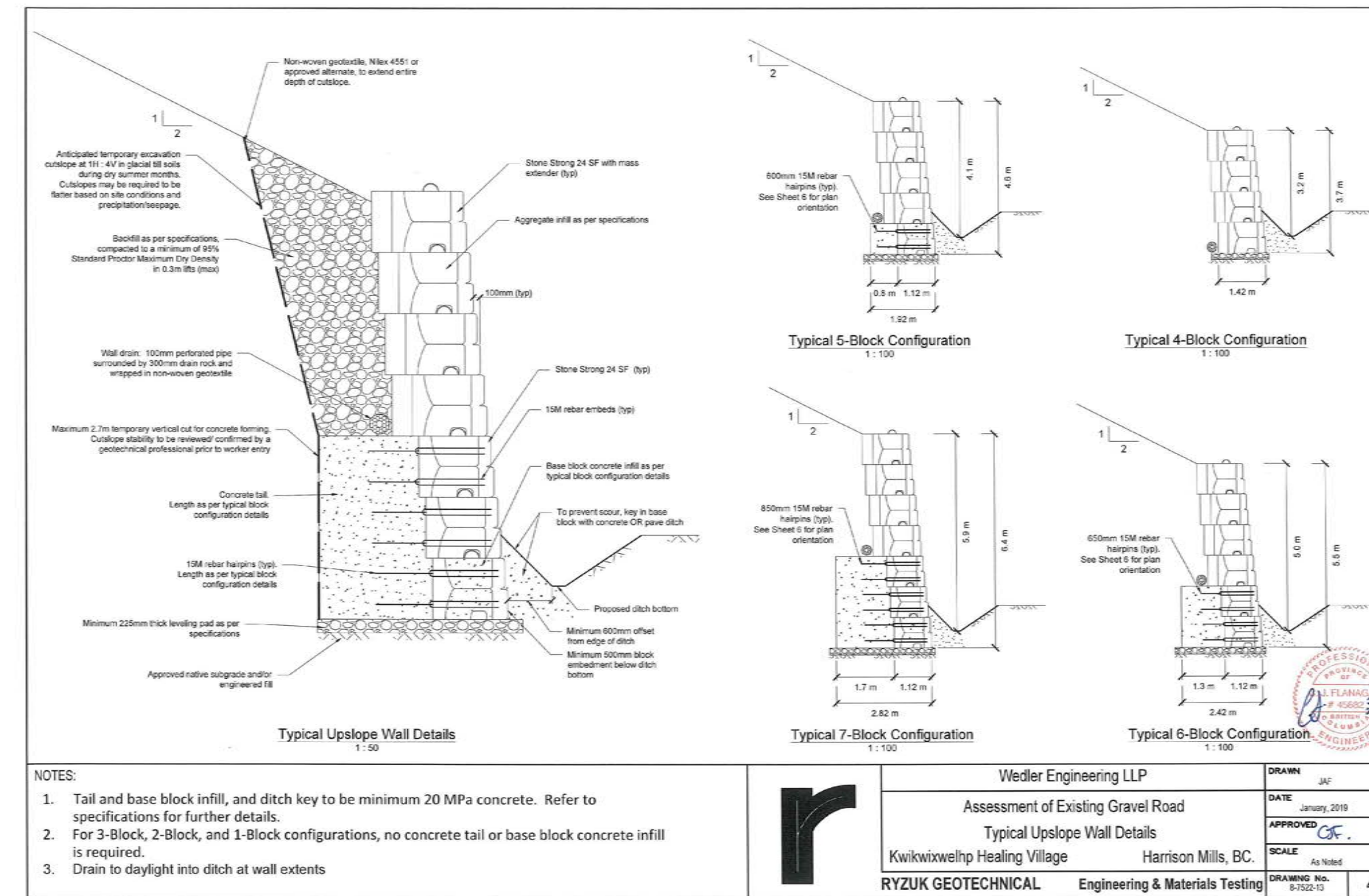
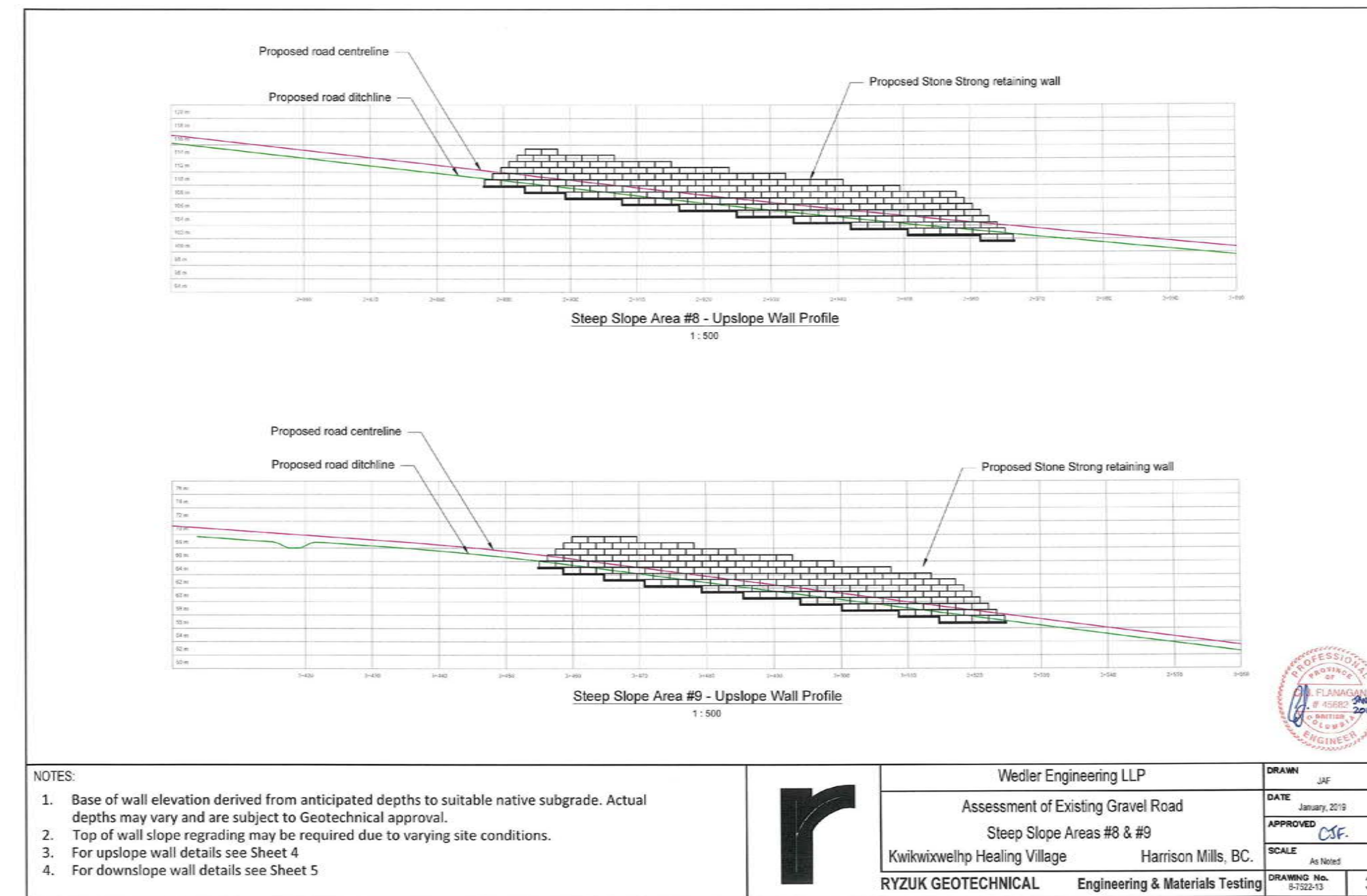
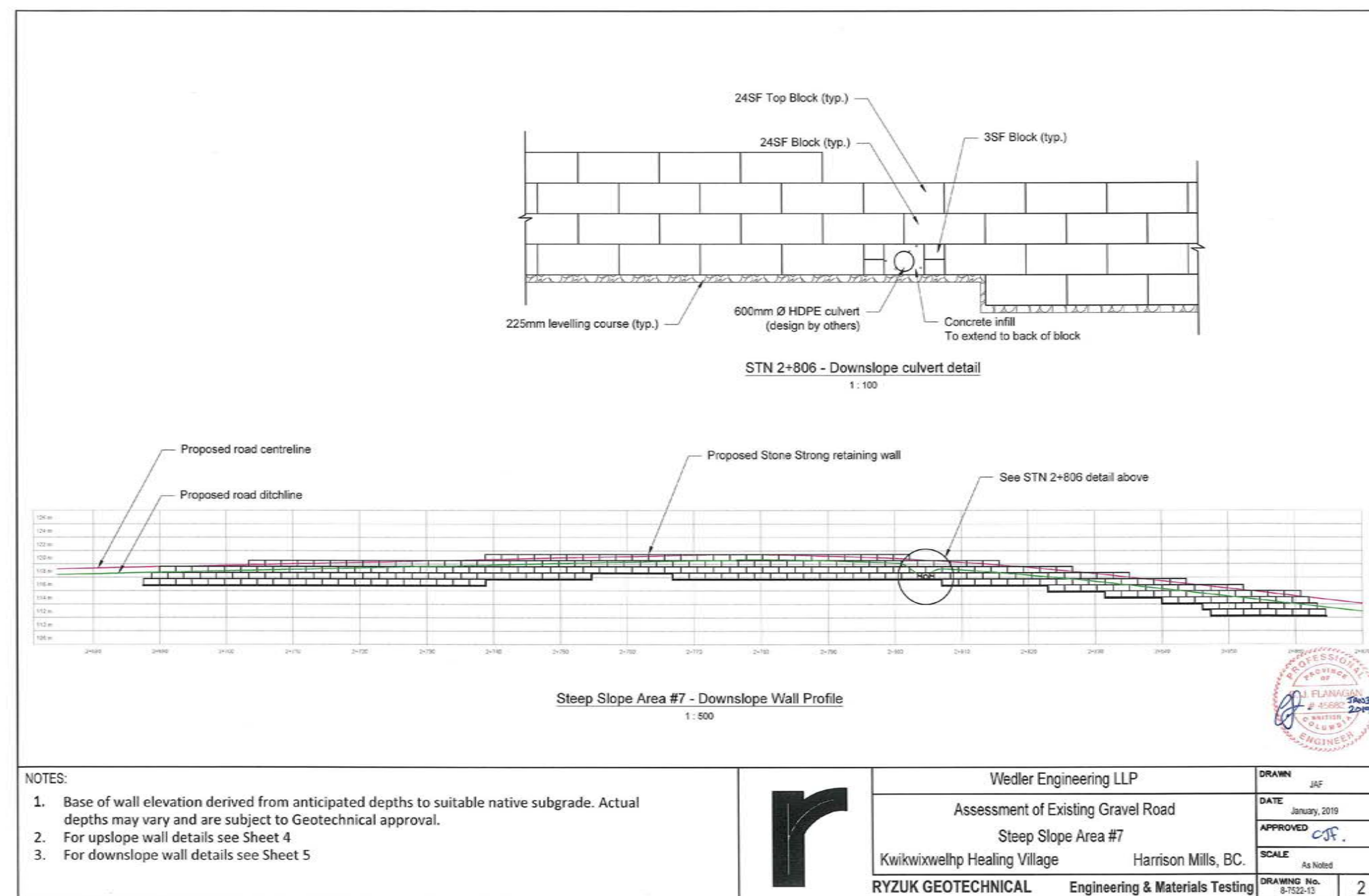
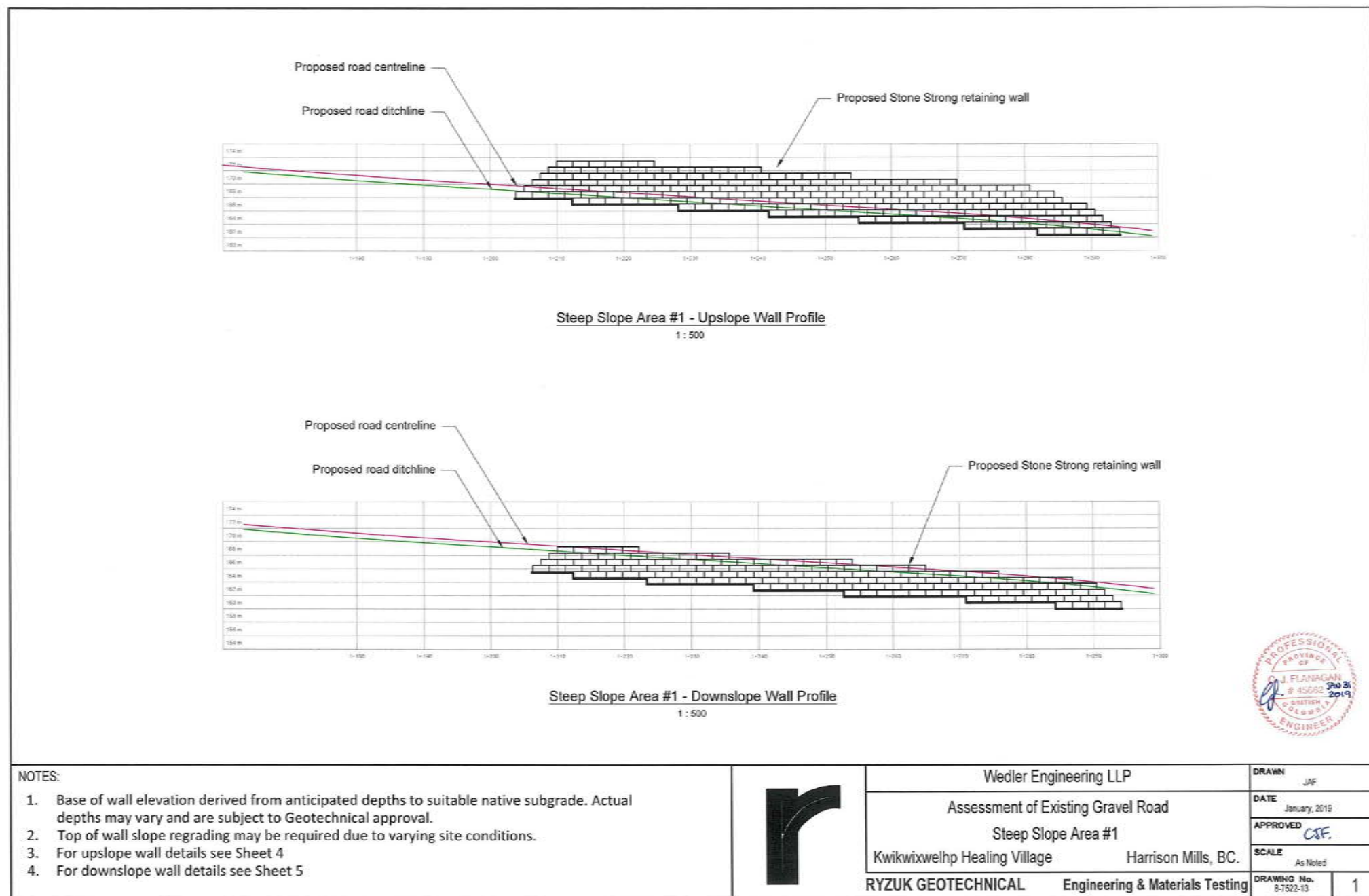
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CROSSFALL SCHEDULE				
STATION (START TO END)	TRANSITIONING (FROM)	CROWNED	CROSSFALL (FALLING)	SUPERELEVATED (FALLING)
1+010 TO 1+255			4% LEFT	
1+255 TO 1+285	4% CROSSFALL LEFT TO 6% SUPER RIGHT			
1+285 TO 1+335				6% RIGHT
1+335 TO 1+365	6% SUPER RIGHT TO 4% CROSSFALL LEFT			
1+365 TO 2+025			4% LEFT	
2+025 TO 2+055	4% CROSSFALL LEFT TO 6% SUPER RIGHT			
2+055 TO 2+085				6% RIGHT
2+085 TO 2+115	6% SUPER RIGHT TO 4% CROWN			
2+115 TO 2+295		4%		
2+295 TO 2+325	4% CROWN TO 6% SUPER RIGHT			
2+325 TO 2+395				6% RIGHT
2+395 TO 2+425	6% SUPER RIGHT TO 4% CROWN			
2+425 TO 2+685		4%		
2+685 TO 2+715	4% CROWN TO 4% CROSSFALL LEFT			
2+715 TO 3+075			4% LEFT	
3+075 TO 3+105	4% CROSSFALL LEFT TO 6% SUPER RIGHT			
3+105 TO 3+155				6% RIGHT
3+155 TO 3+185	6% SUPER RIGHT TO 4% CROSSFALL LEFT			
3+185 TO 3+215			4% LEFT	
3+215 TO 3+235				6% LEFT
3+235 TO 3+265	6% SUPER LEFT TO 6% SUPER RIGHT			
3+265 TO 3+295				6% RIGHT
3+295 TO 3+325	6% SUPER RIGHT TO 4% CROWN			
3+325 TO 3+405		4%		
3+405 TO 3+435	4% CROWN TO 4% CROSSFALL RIGHT			
3+435 TO 3+675			4% RIGHT	
3+675 TO 3+705	4% CROSSFALL RIGHT TO 6% SUPER LEFT			
3+705 TO 3+745				6% LEFT
3+745 TO 3+775	6% SUPER LEFT TO 4% CROSSFALL RIGHT			
3+775 TO 3+855			4% RIGHT	
3+855 TO 3+875	4% CROSSFALL RIGHT TO 2% CROWN			
3+875 TO 3+928		2%		



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

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PUBLIC WORKS AND
GOVERNMENT SERVICES

Project title/Titre du projet

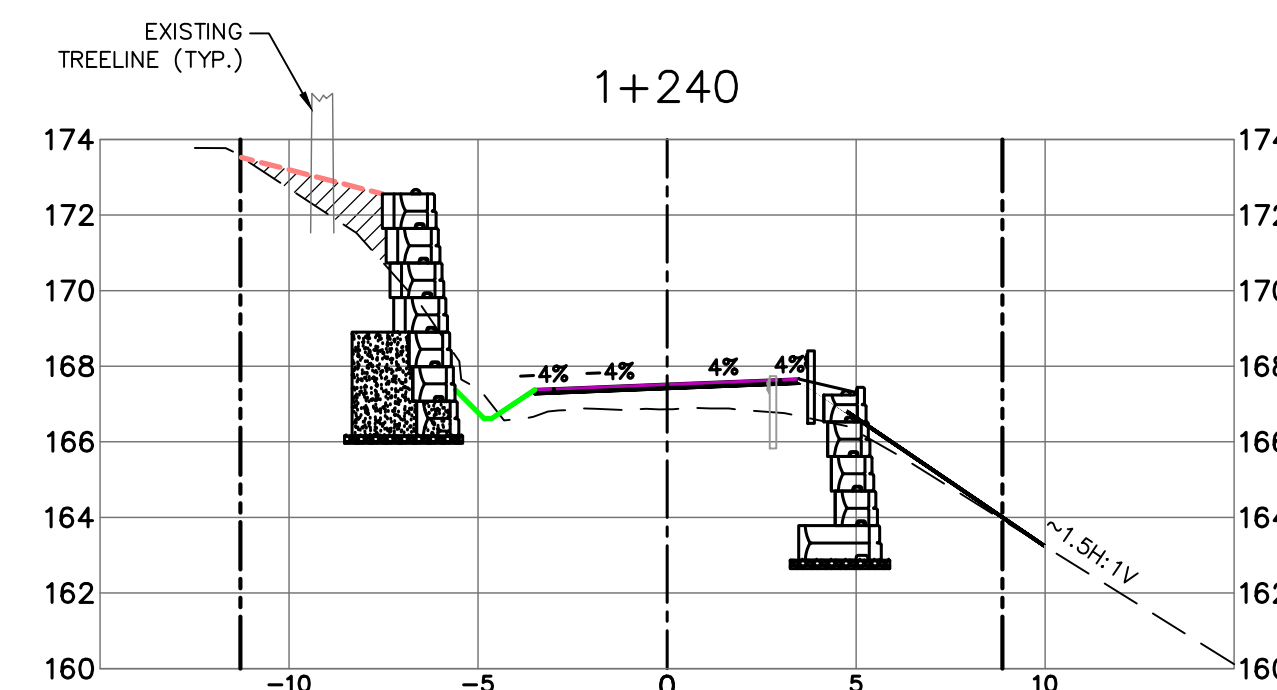
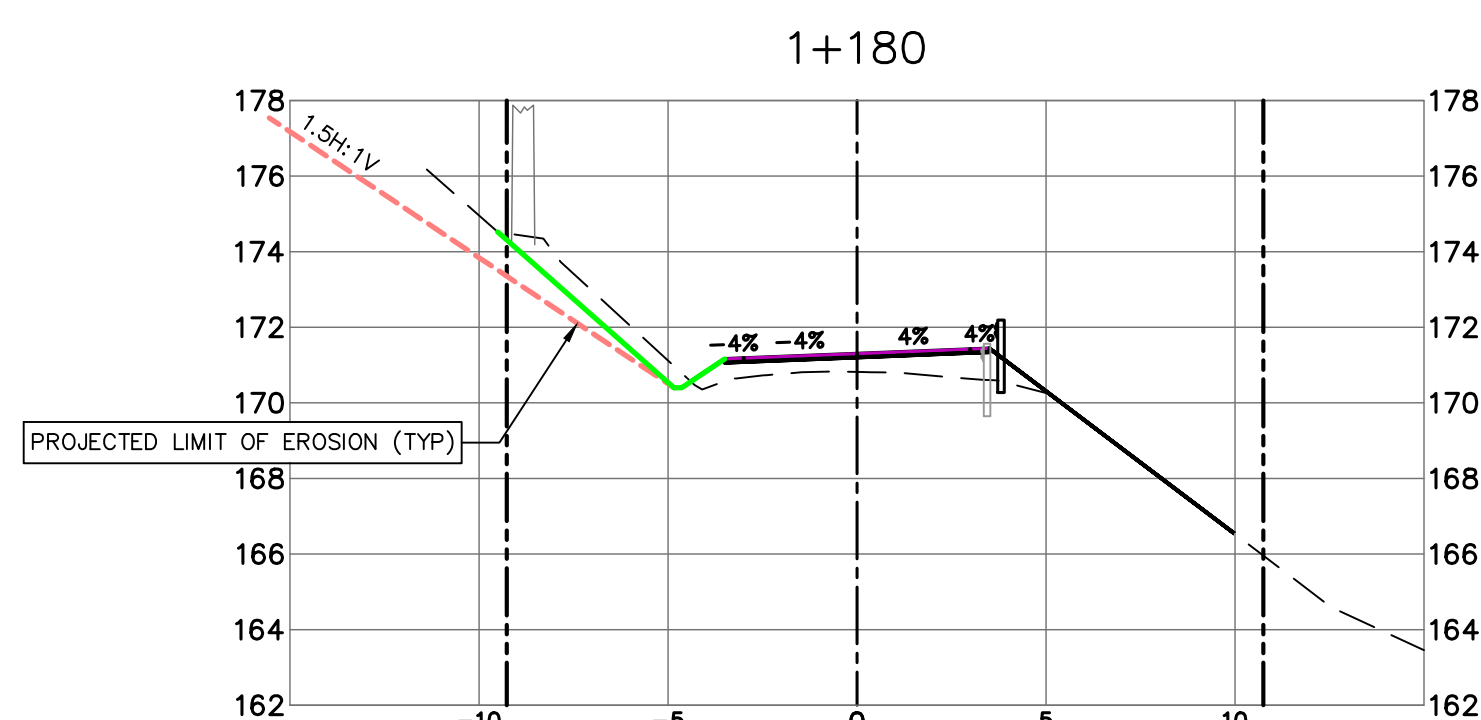
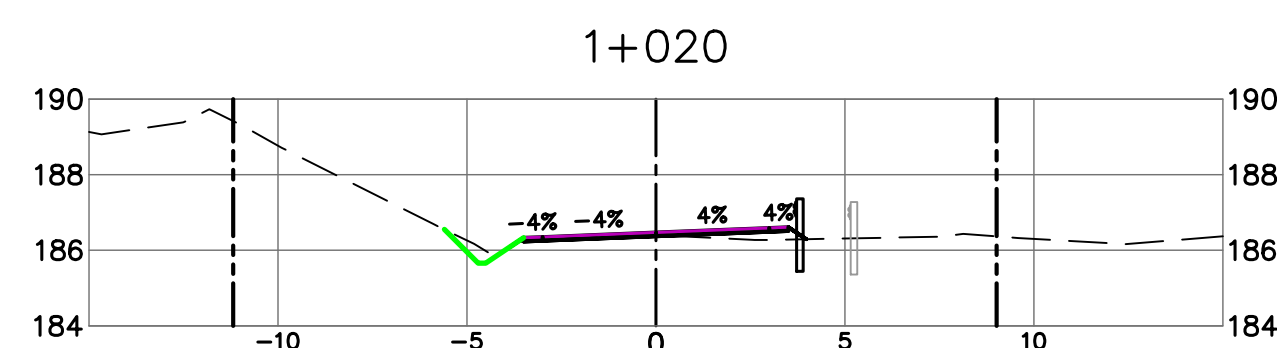
ACCESS ROAD
AND
CULVERT UPGRADES

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WEDLER ENGINEERING LLP
Designed by/Concept par
EAG
Drawn by/Dessiné par
TJD
PWGSC Project Manager/Administrateur de Projets TPSGC
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

RYZUK GEOTECHNICAL
RETAINING WALL DRAWINGS
8-7522-13, 1 THRU 6

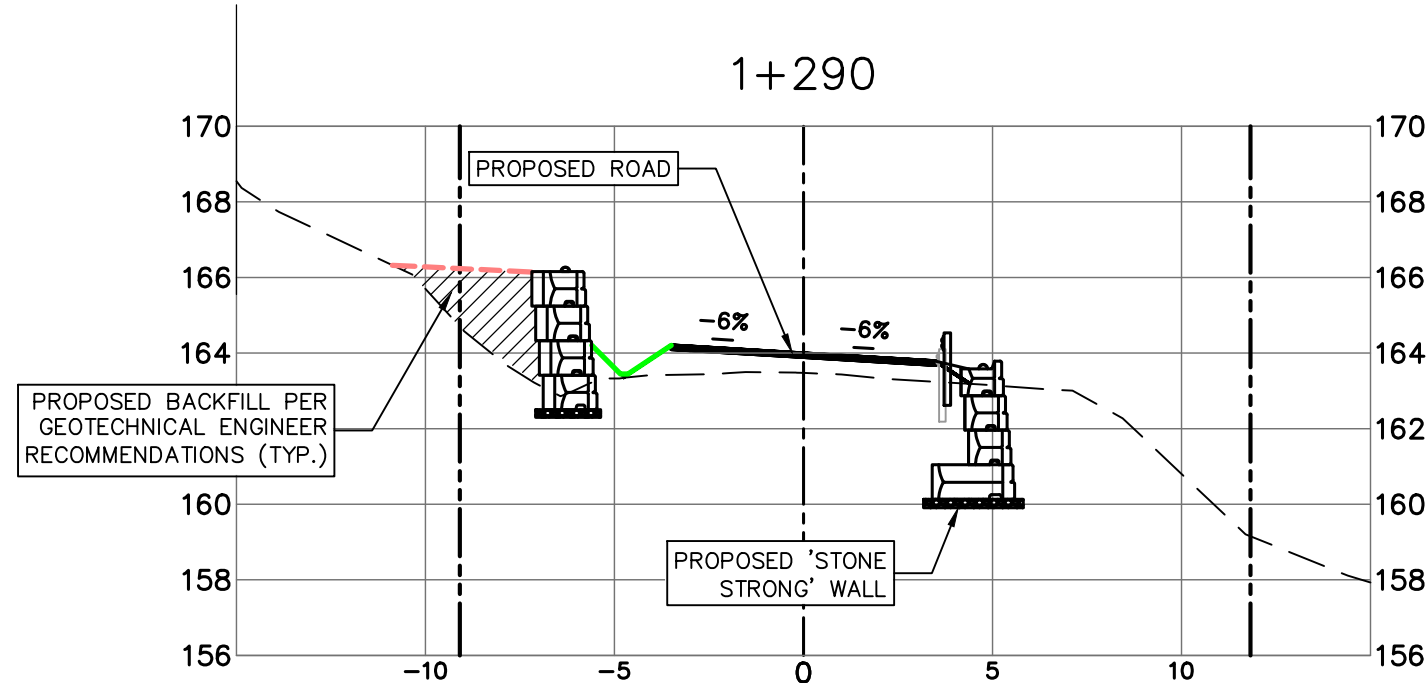
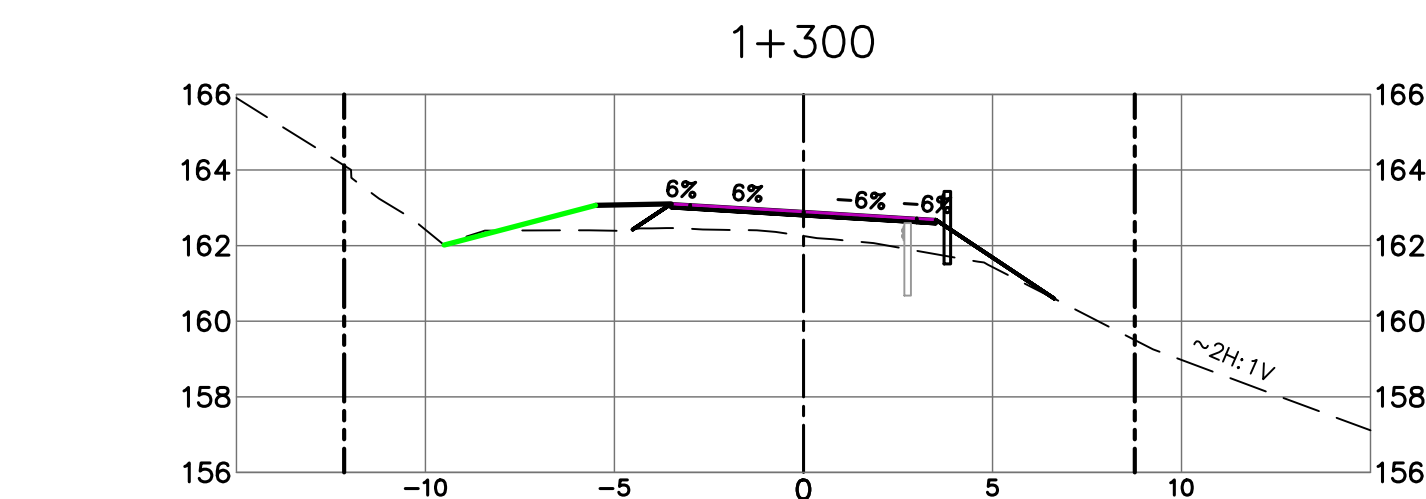
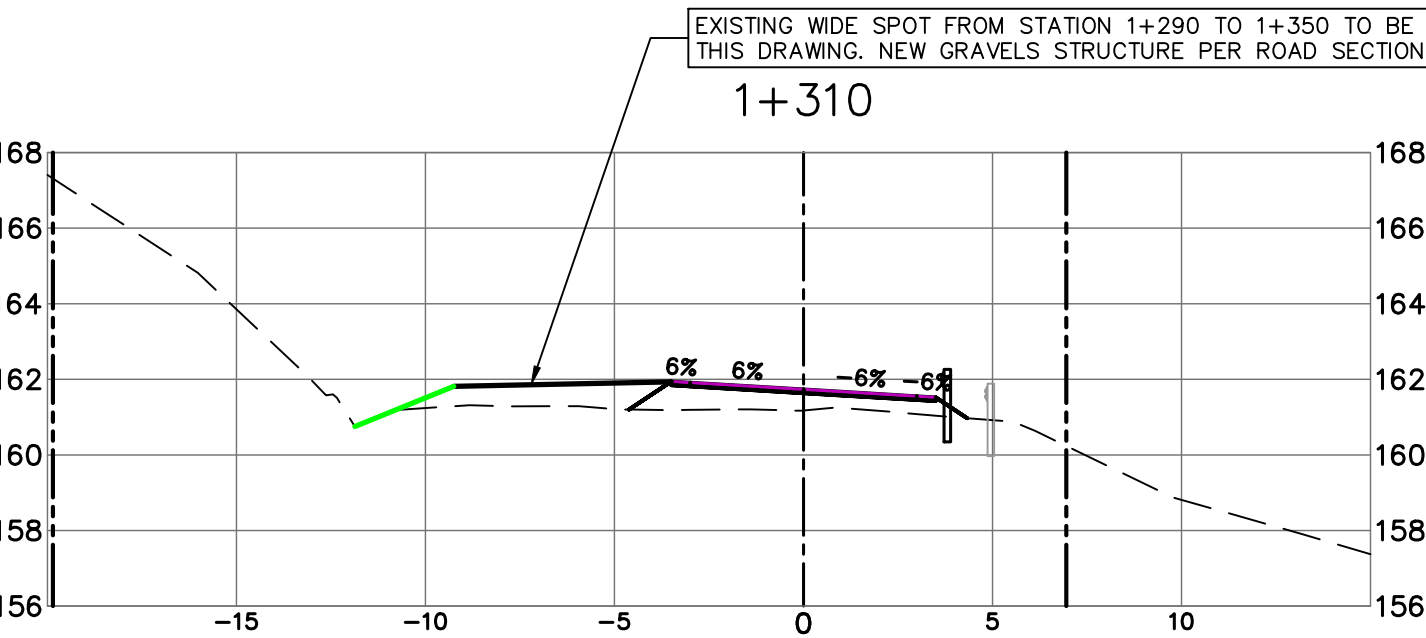
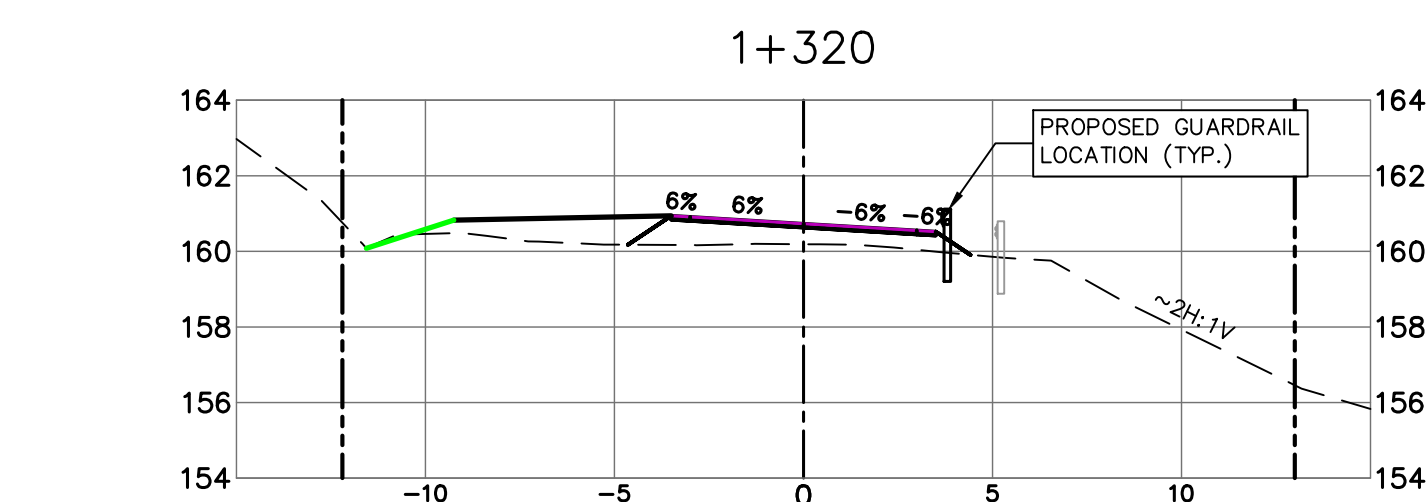
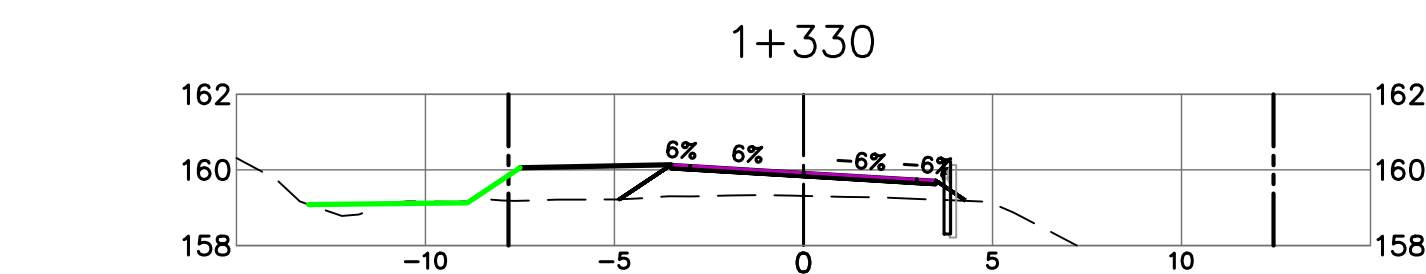
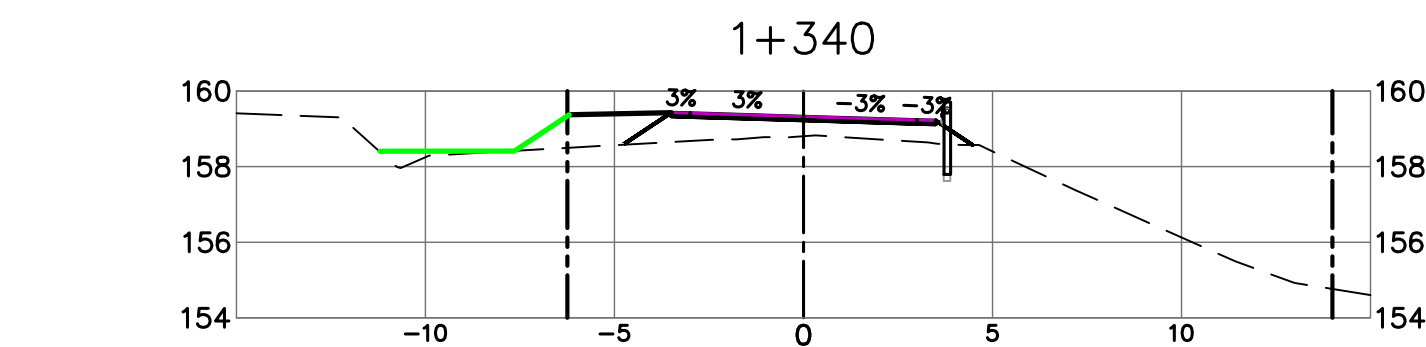
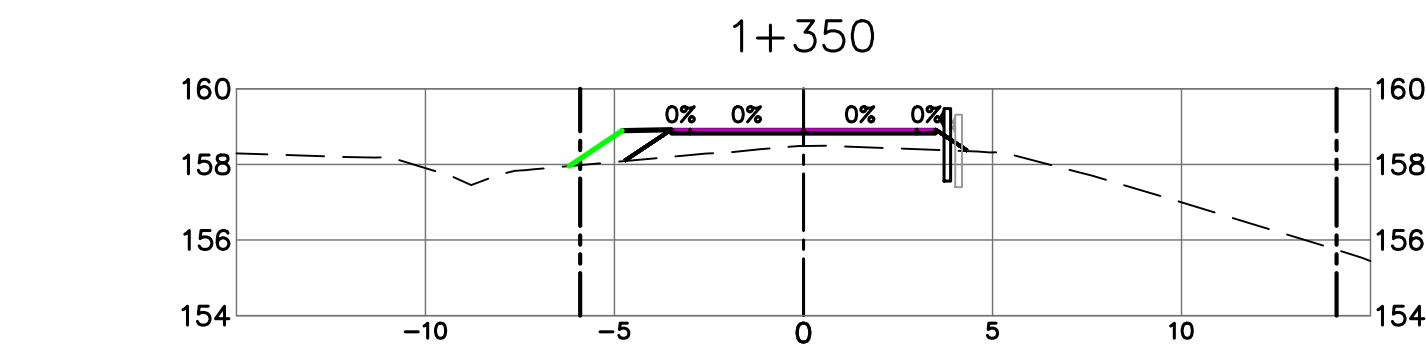
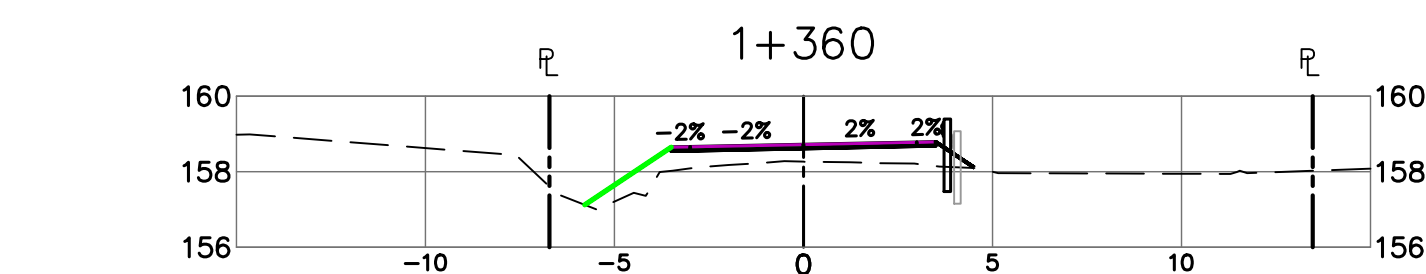
Project No./No. du projet	Sheet/Feuille	Revision no./Lo Révision no.
R.093708.001	C13	5



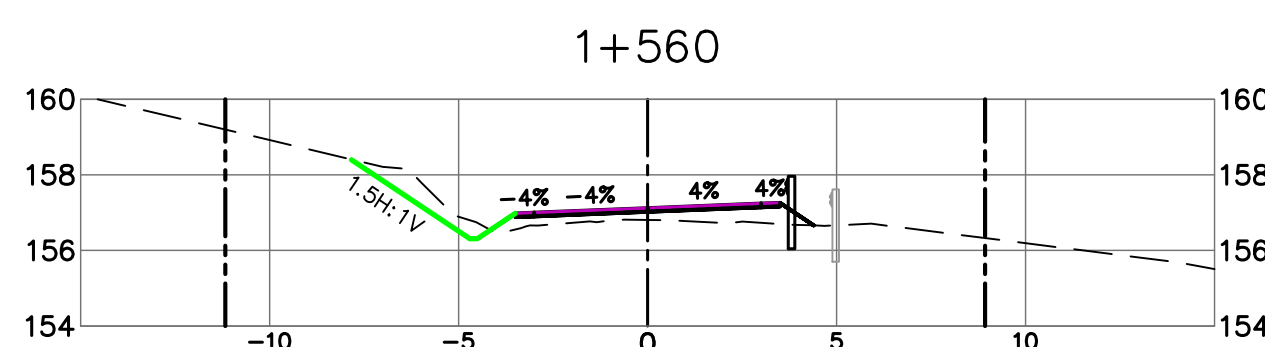
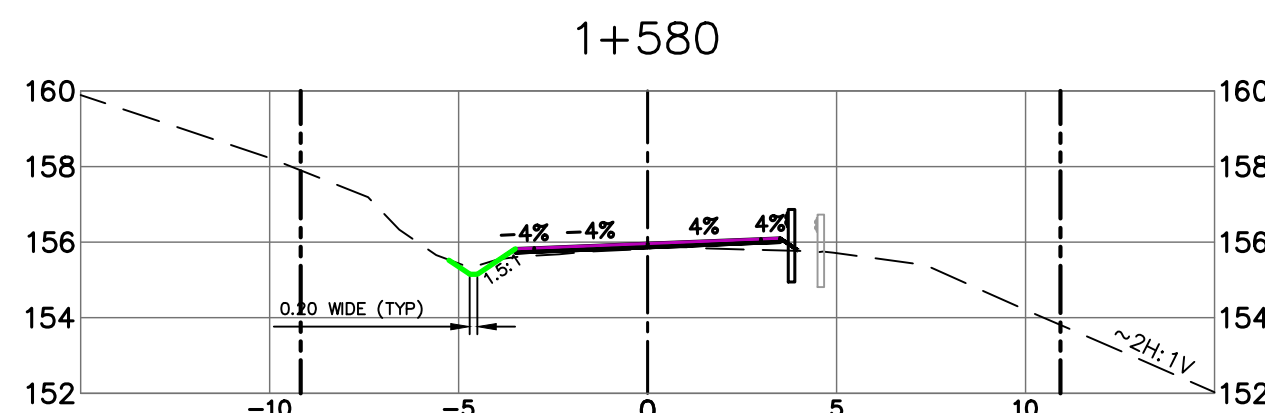
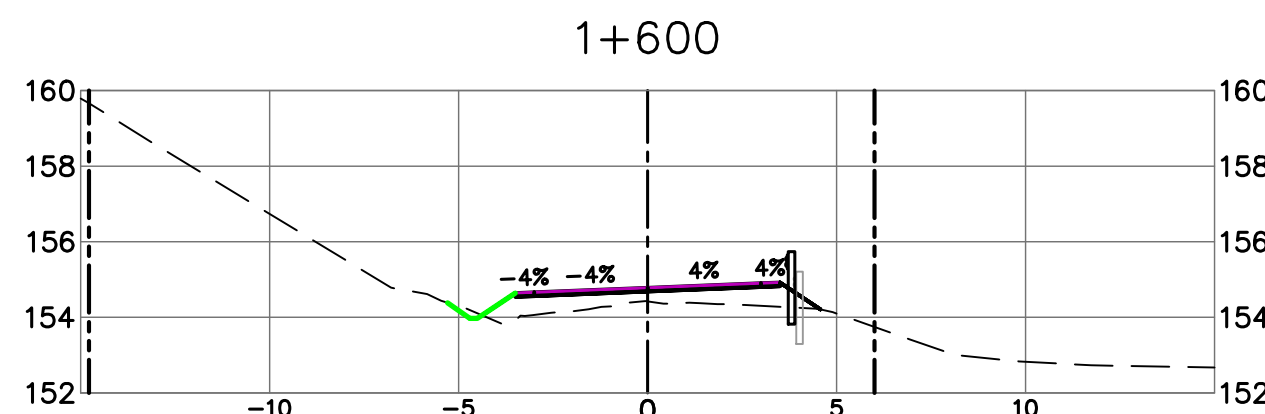
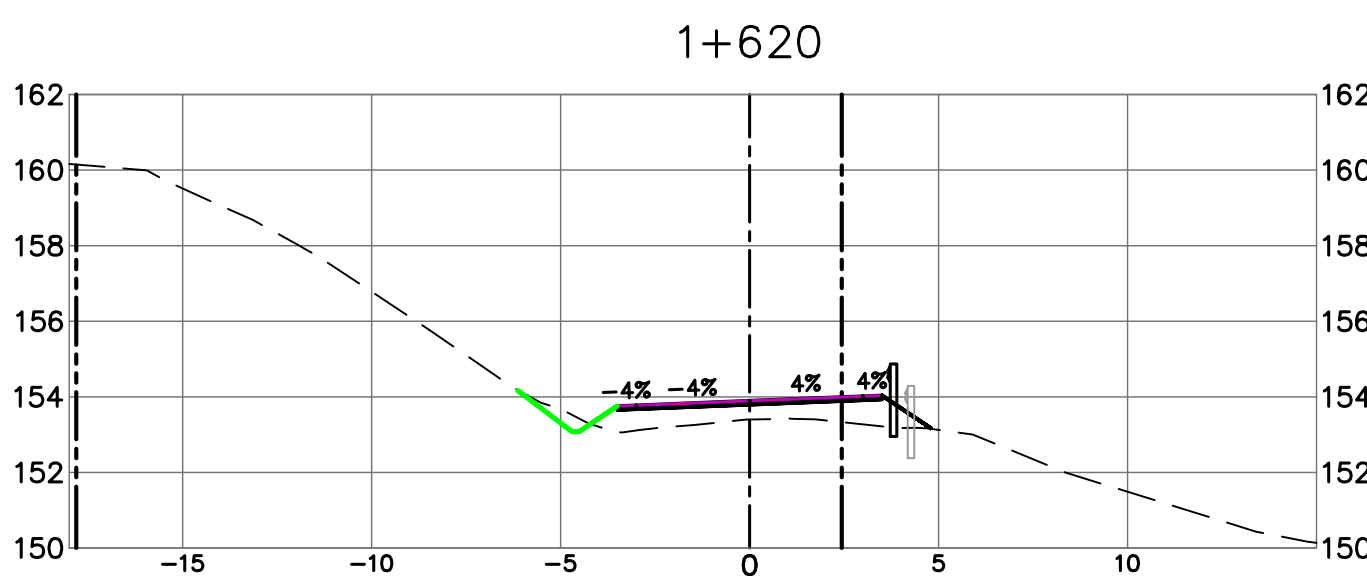
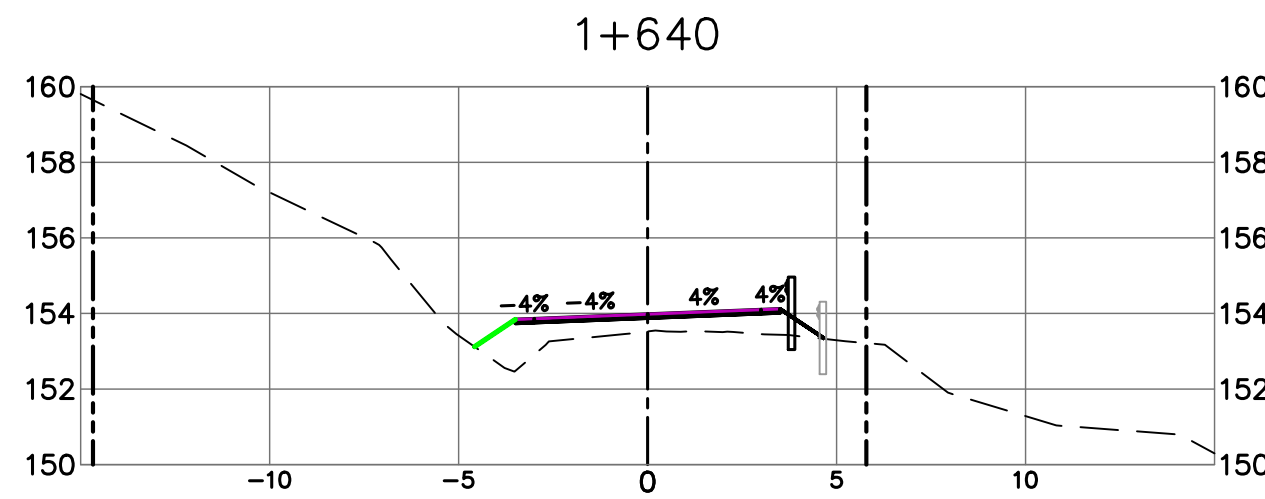
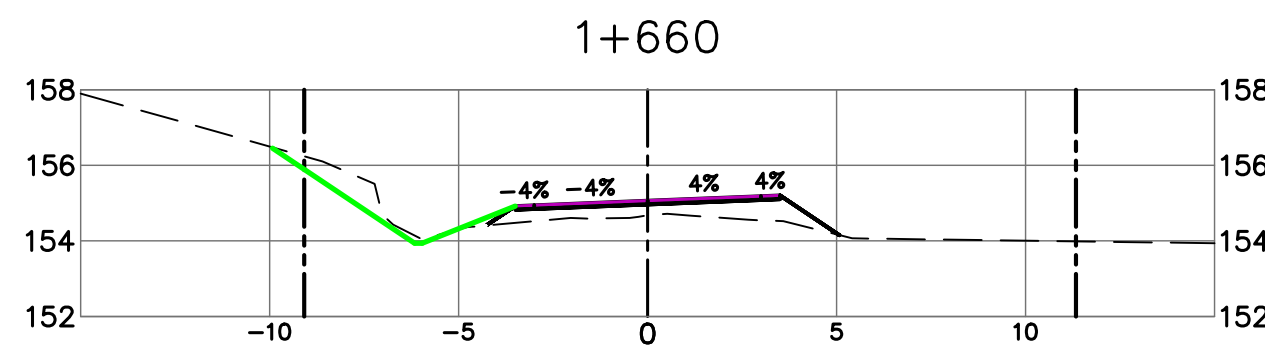
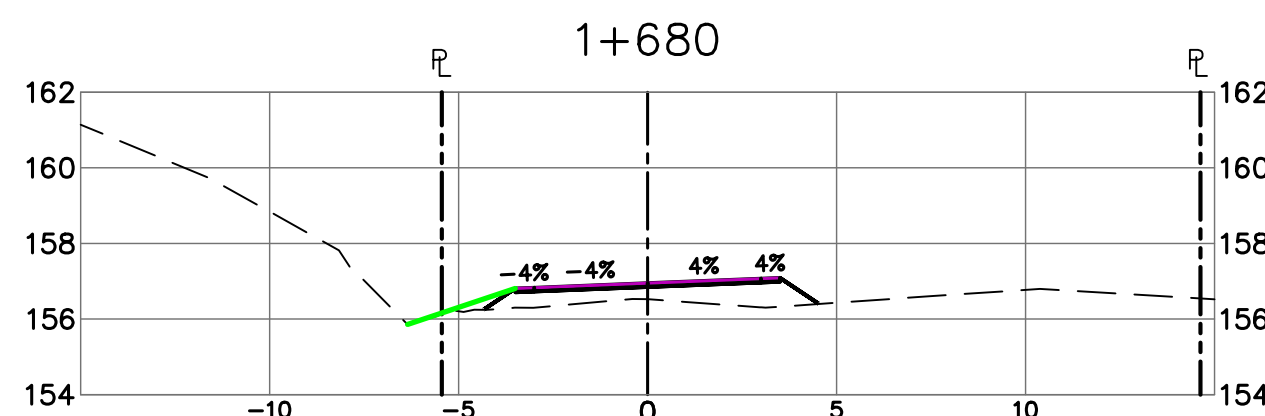
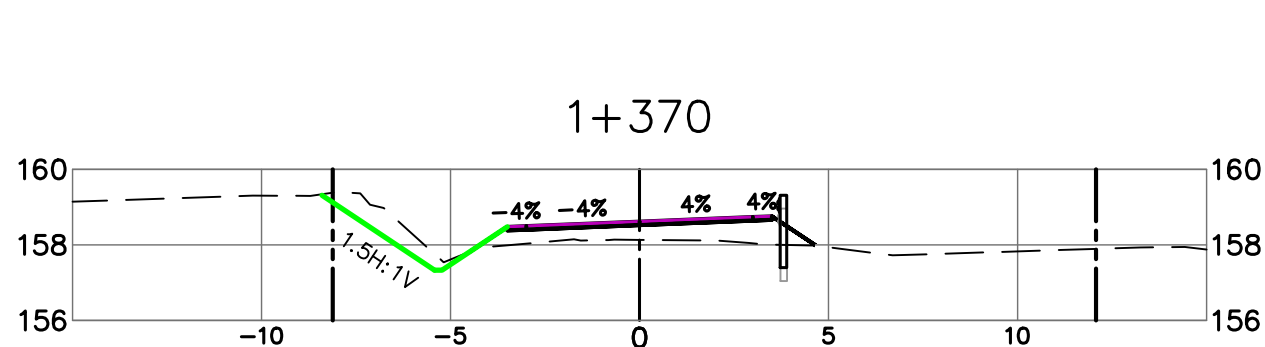
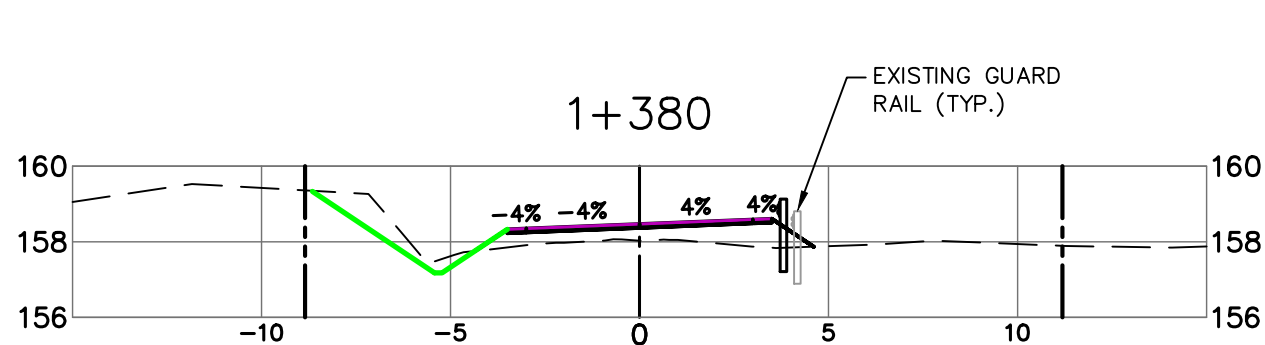
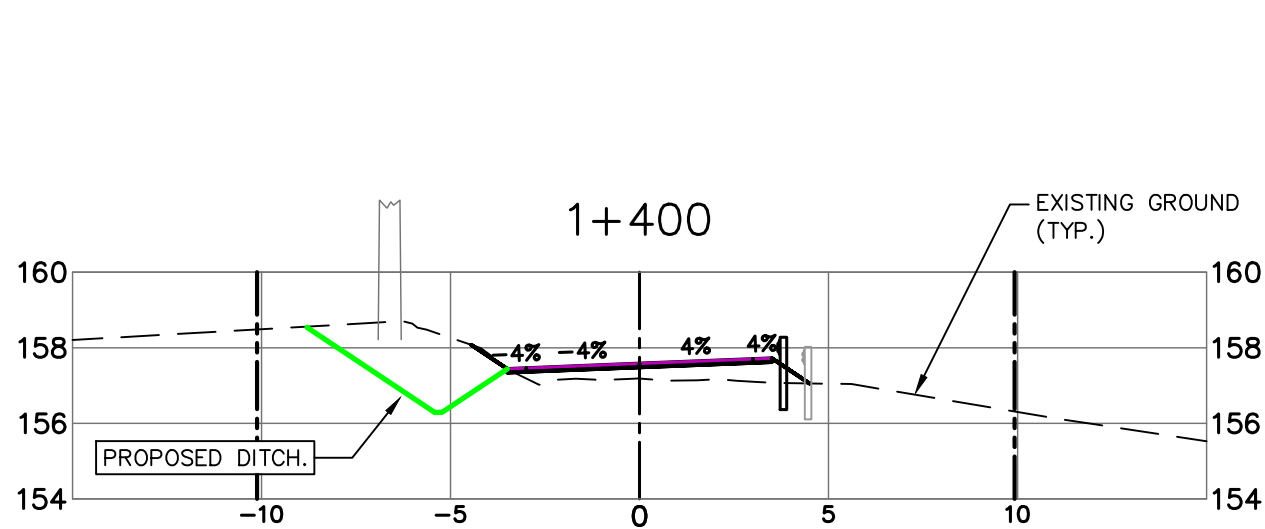
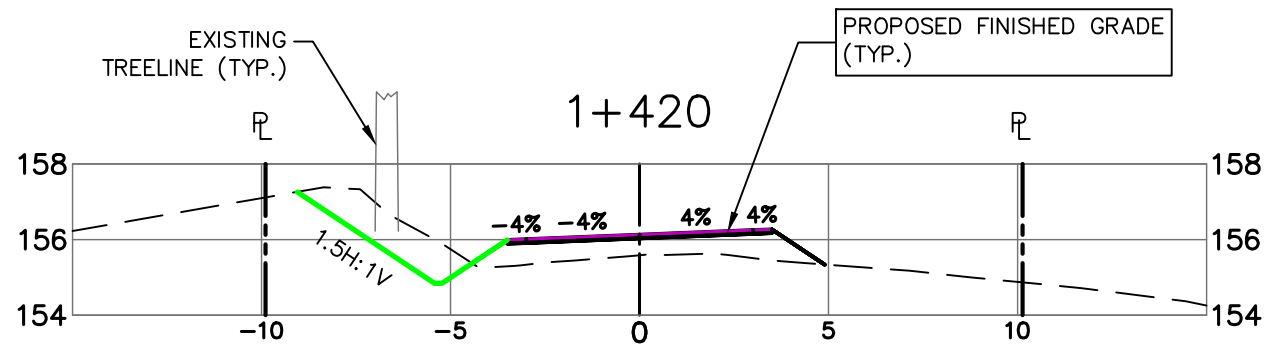
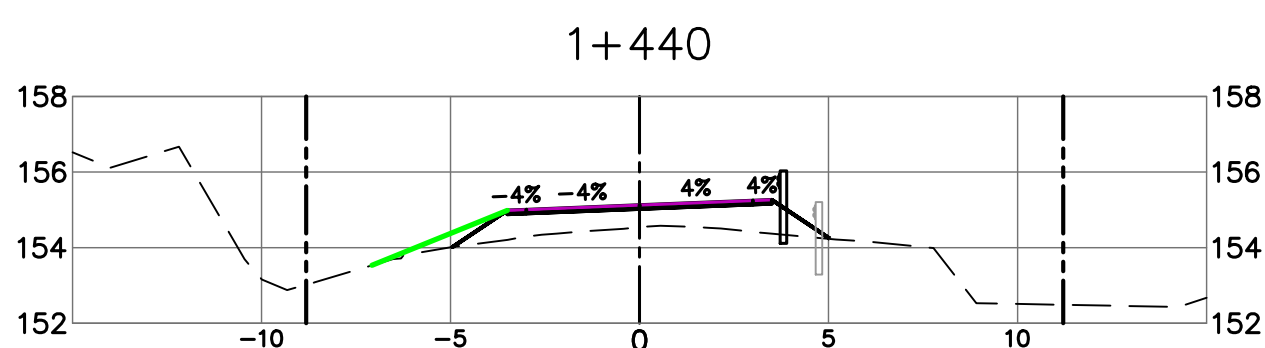
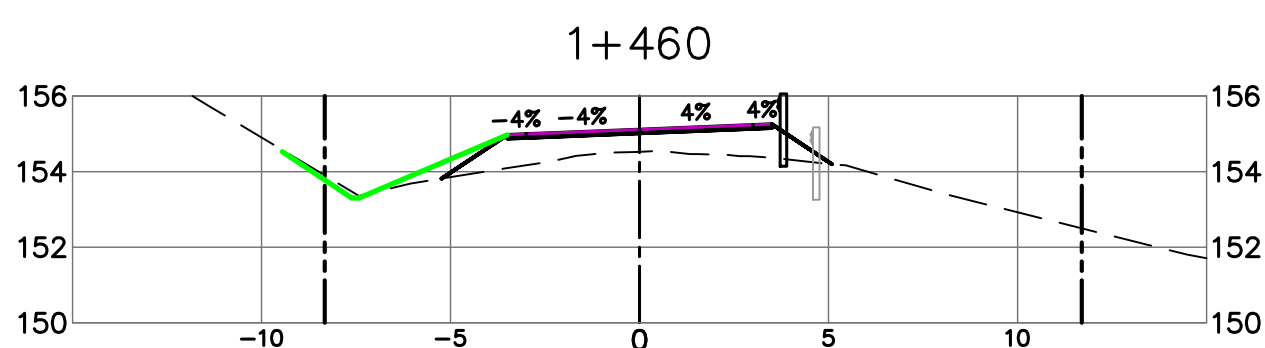
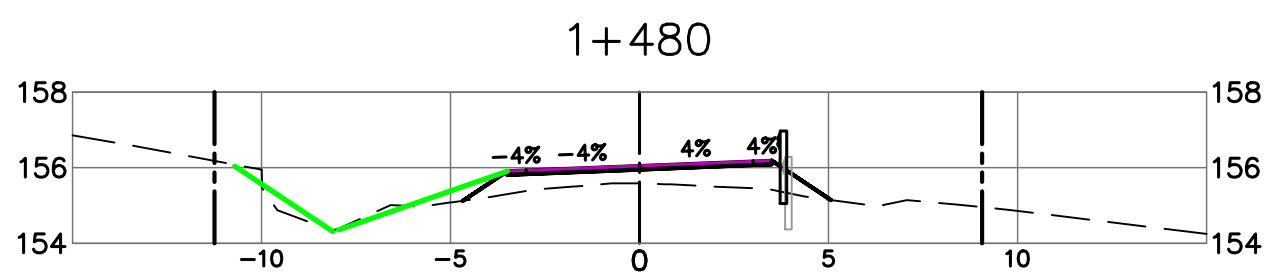
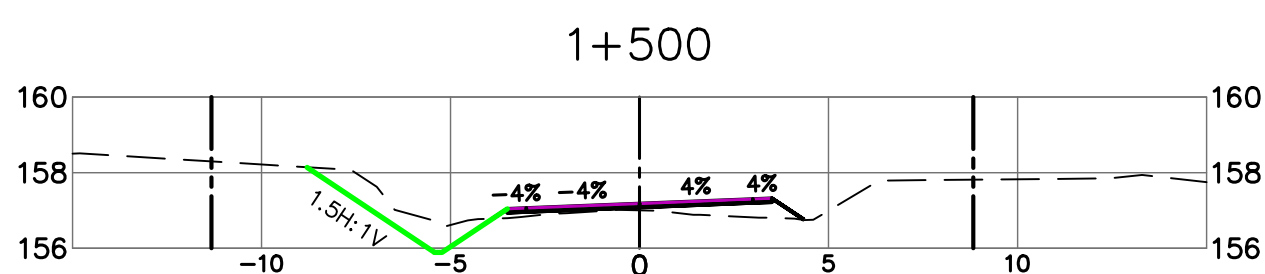
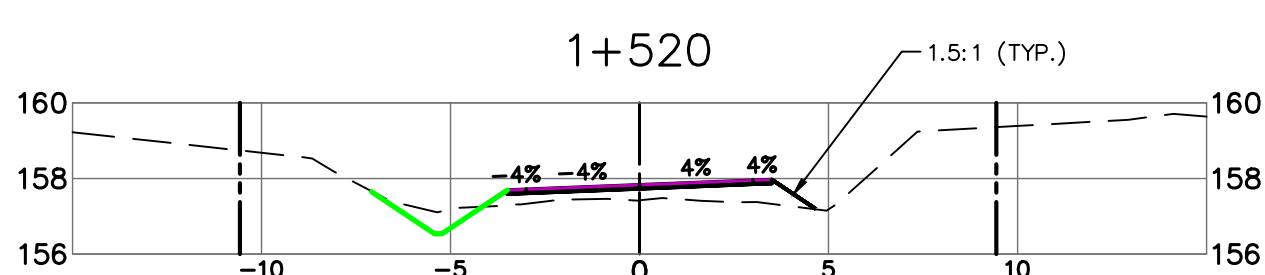
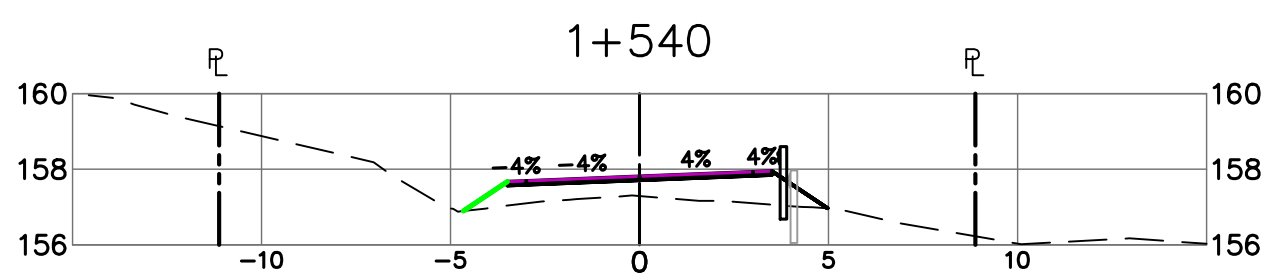
SCALE 1: 200H, 1: 200V

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STEEP SLOPE AREA #1
(1+210 TO 1+290)



Revision/ Révision	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
2	99% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

Client/client

CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

Project title/Titre du projet

ACCESS ROAD
AND
CULVERT UPGRADES

Consultant Signature Only

WEDLER ENGINEERING LLP

Designed by/Concept par

EAG

Drawn by/Dessiné par

TJD

PWGSC Project Manager/Administrateur de Projets TPSCC

TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCC

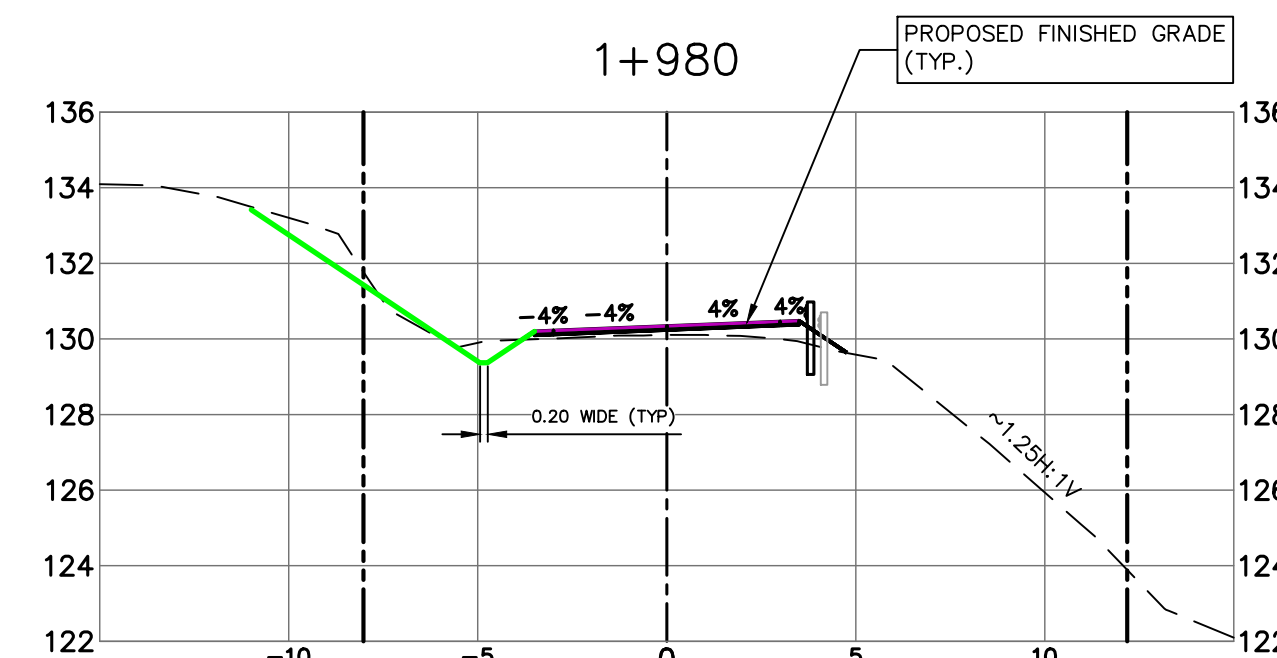
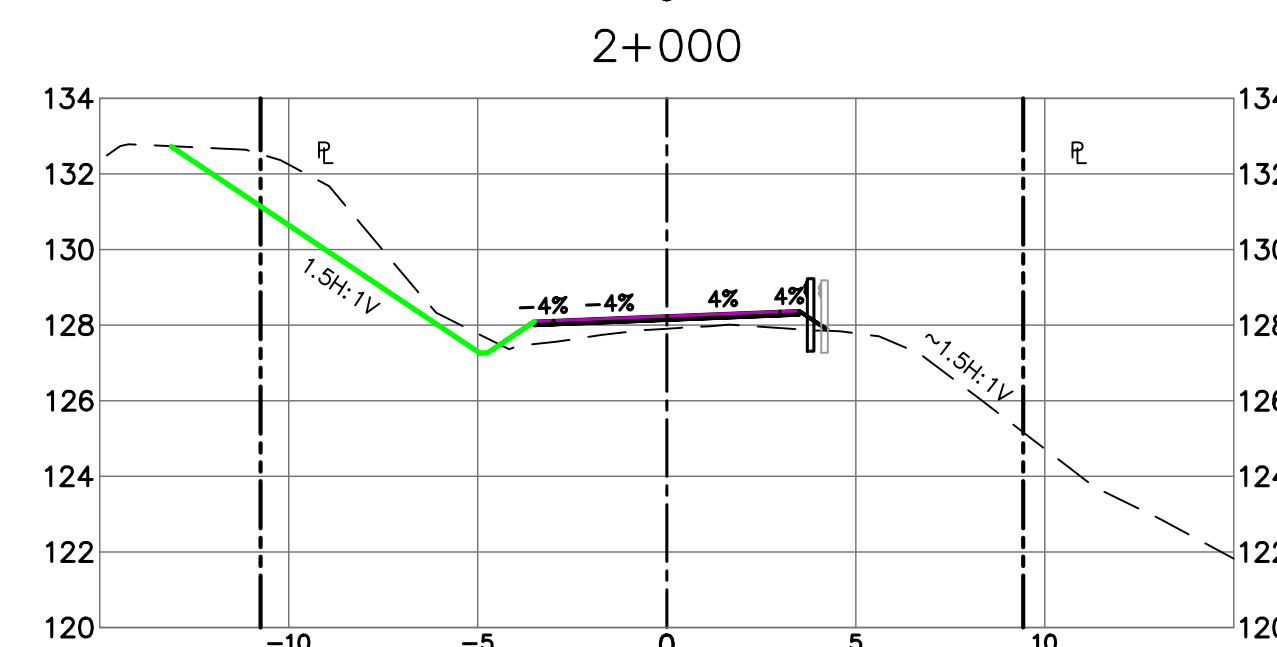
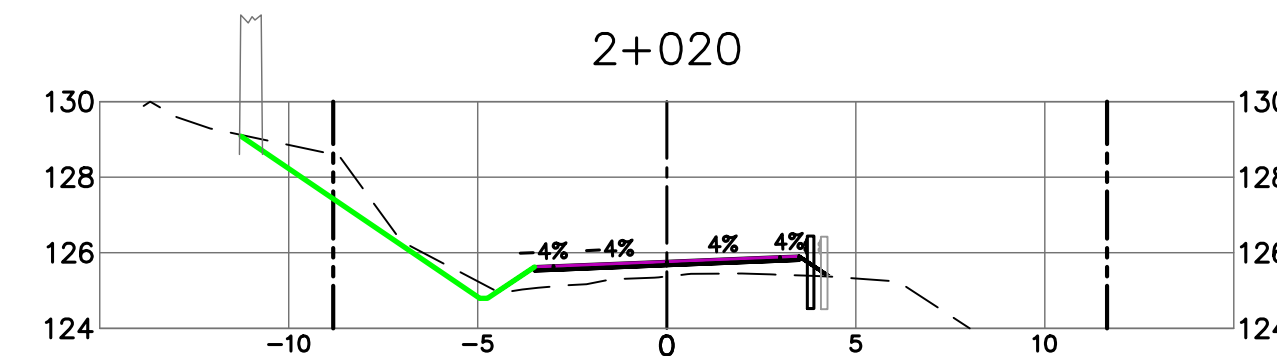
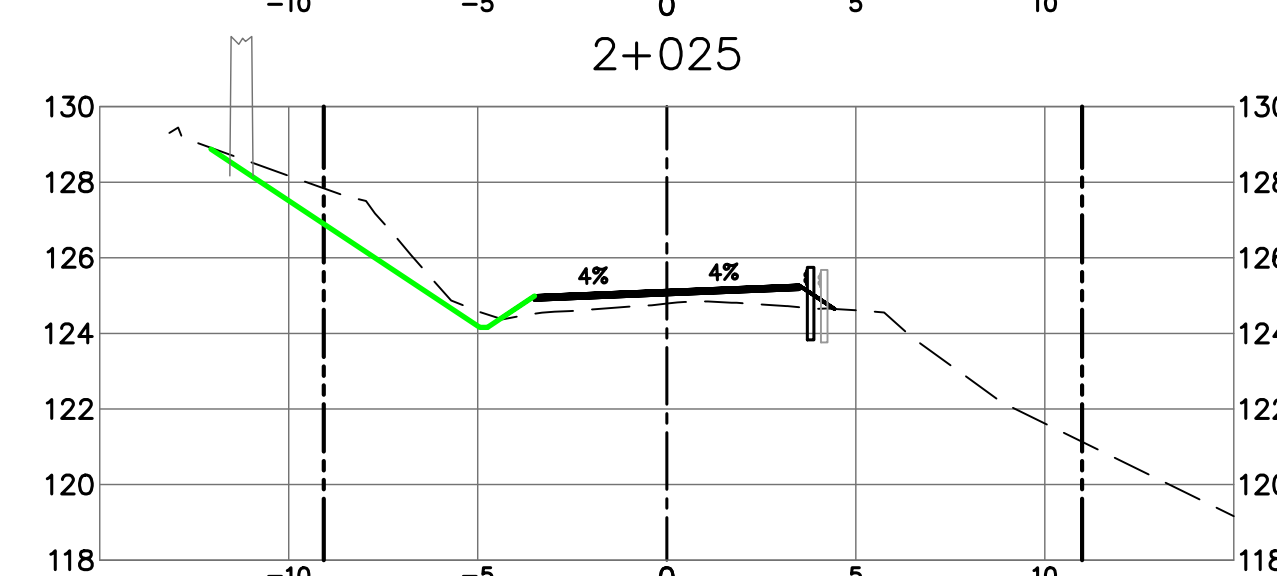
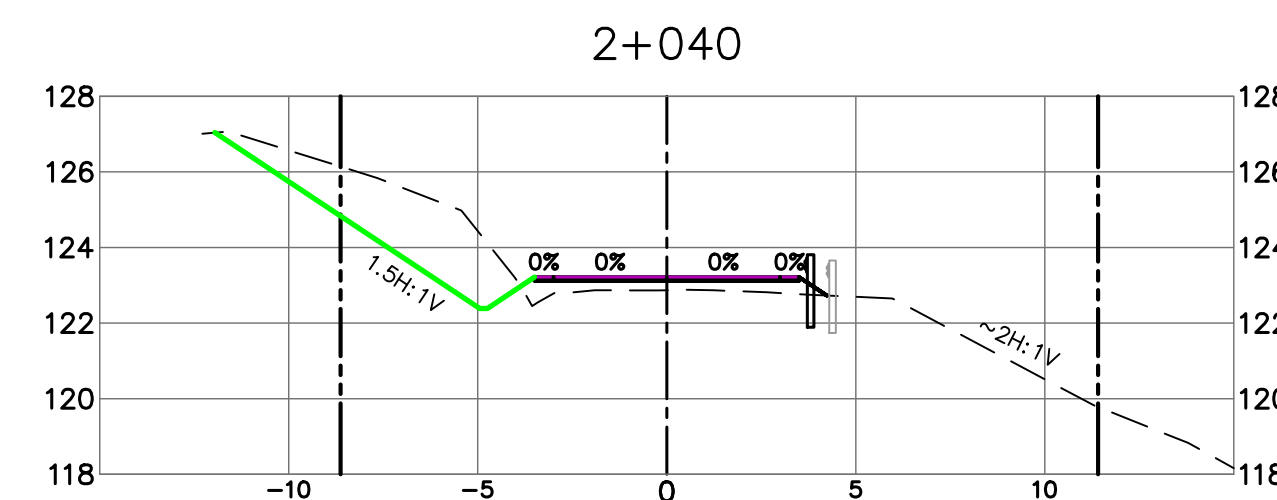
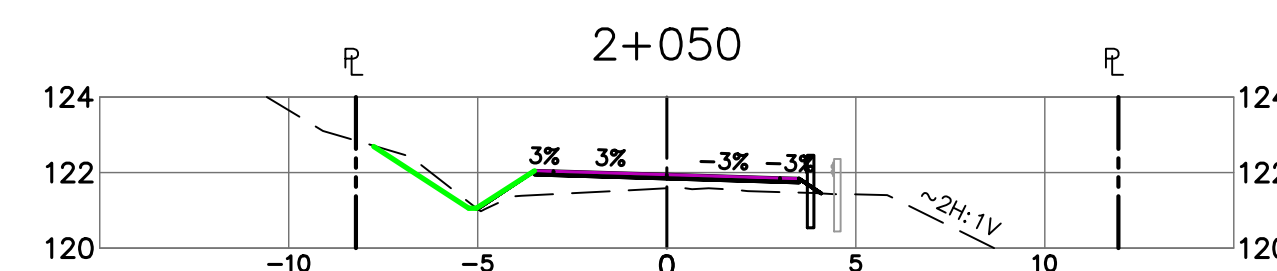
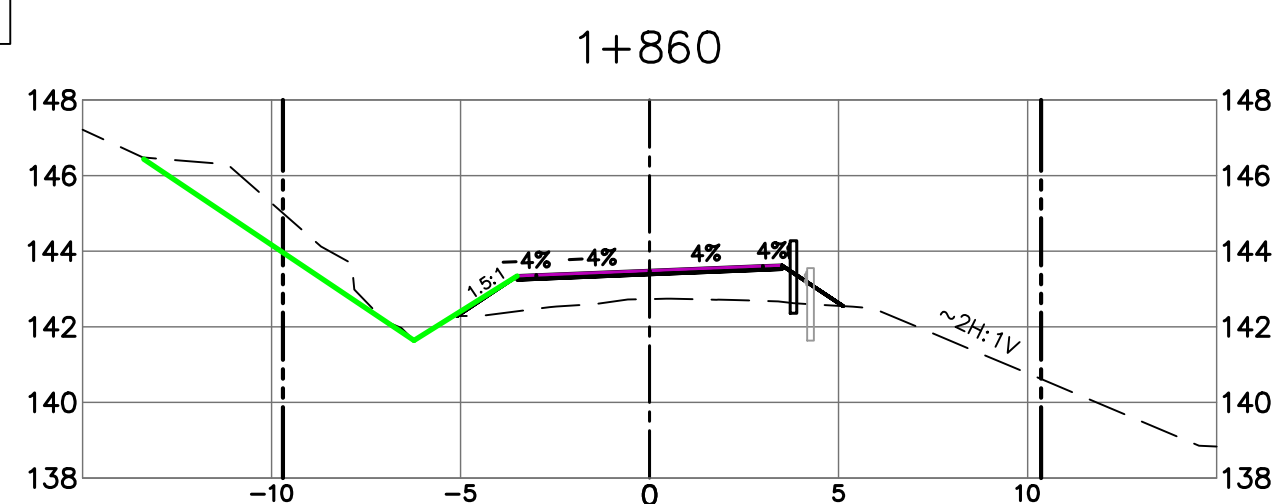
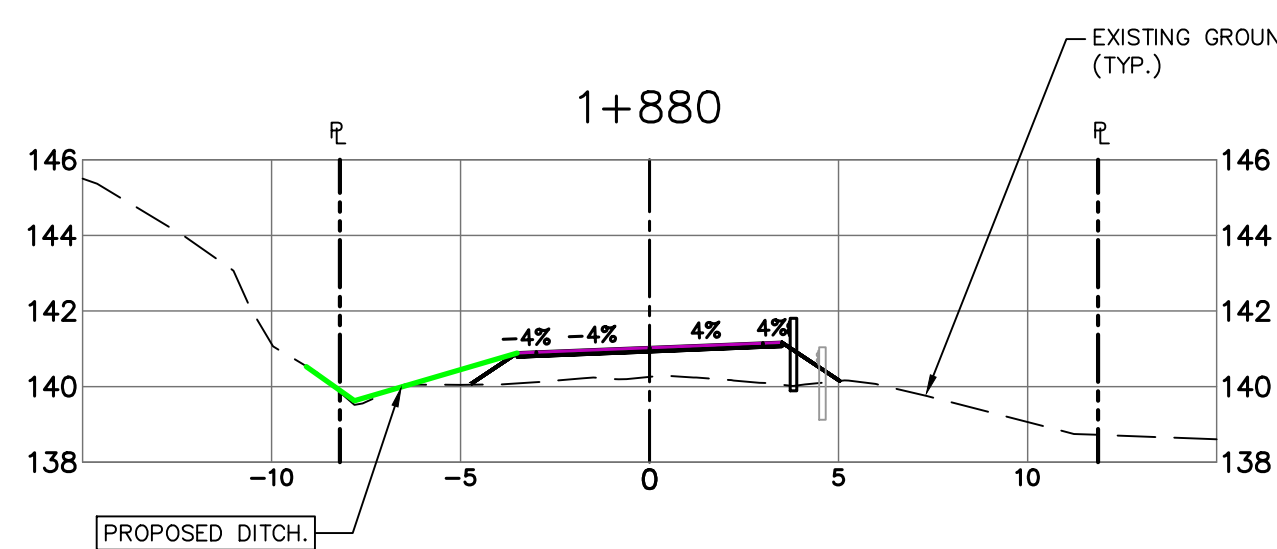
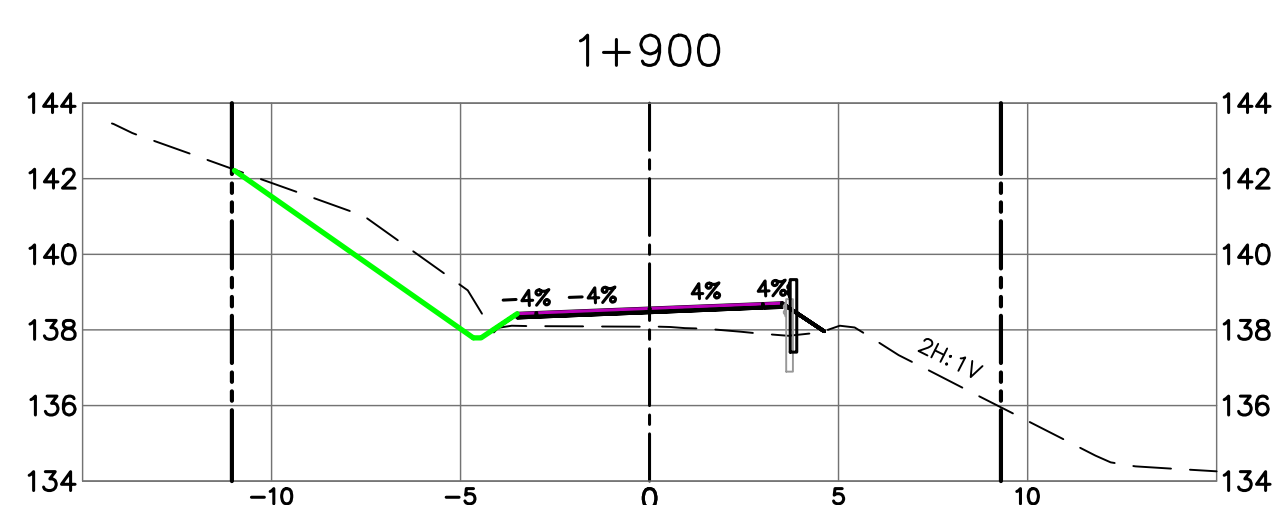
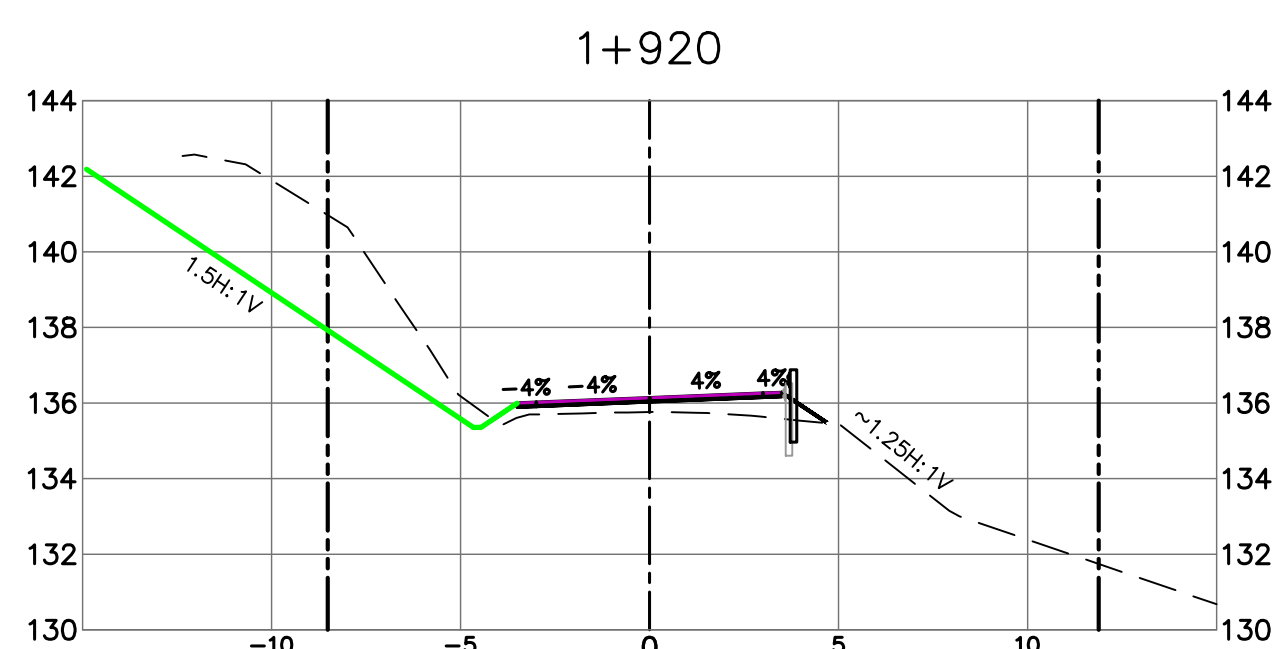
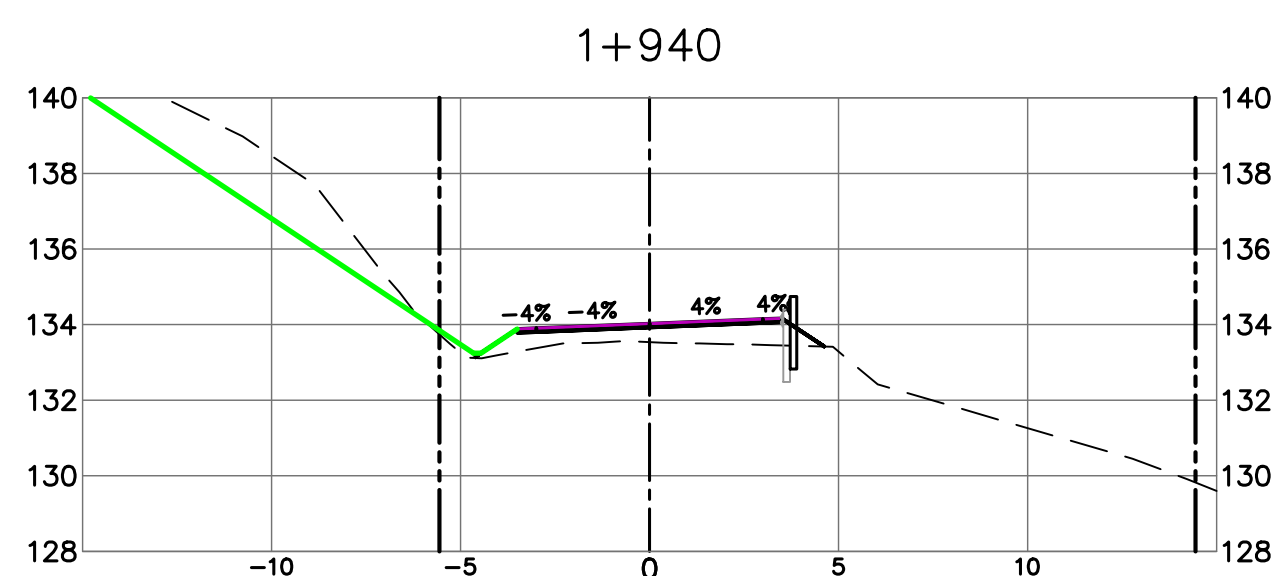
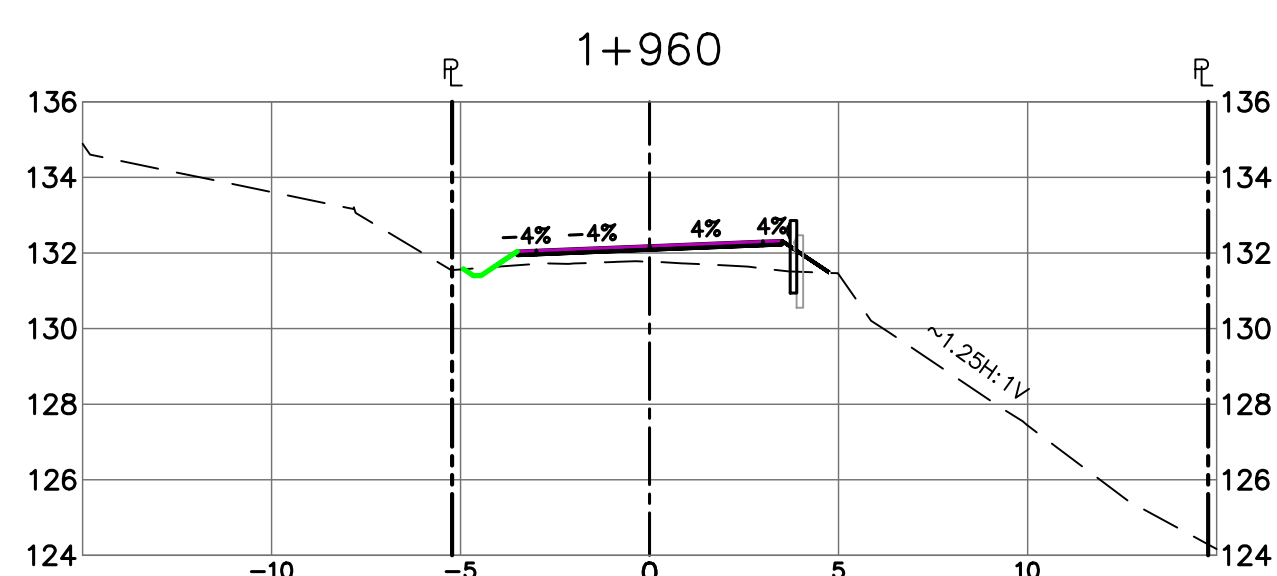
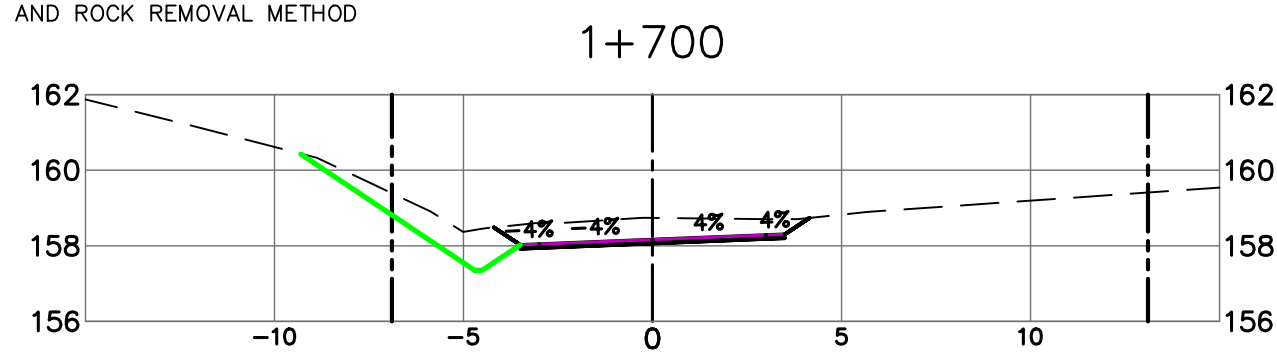
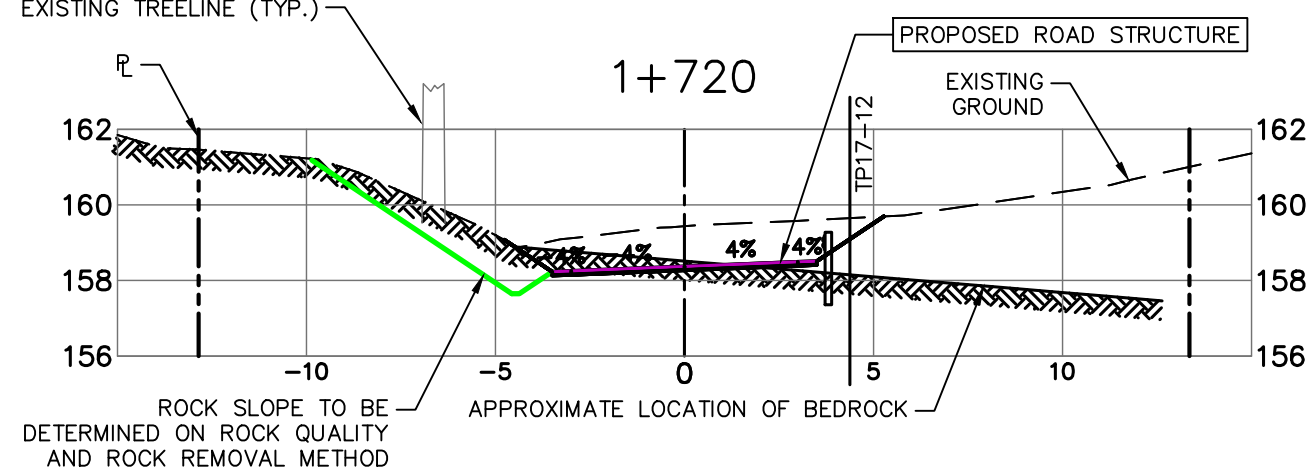
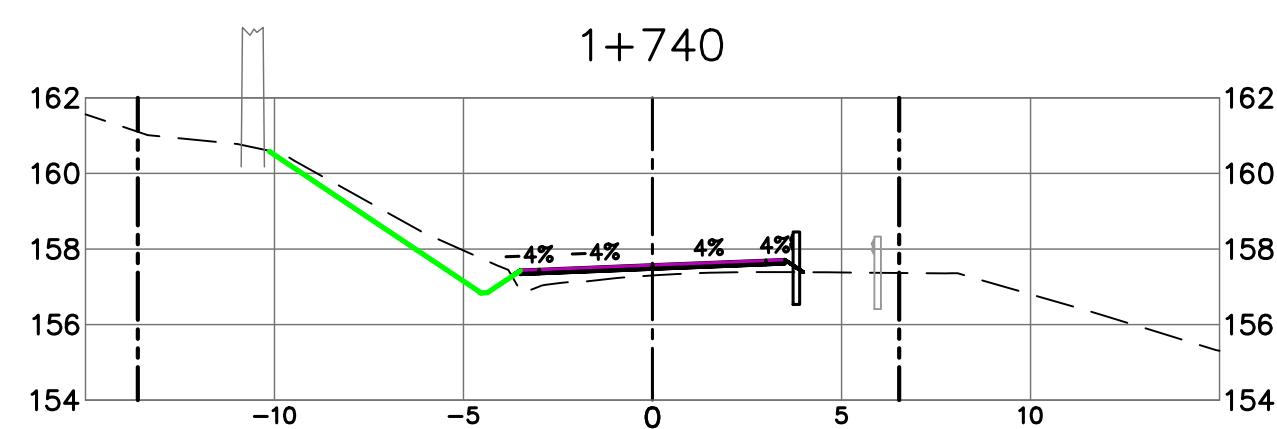
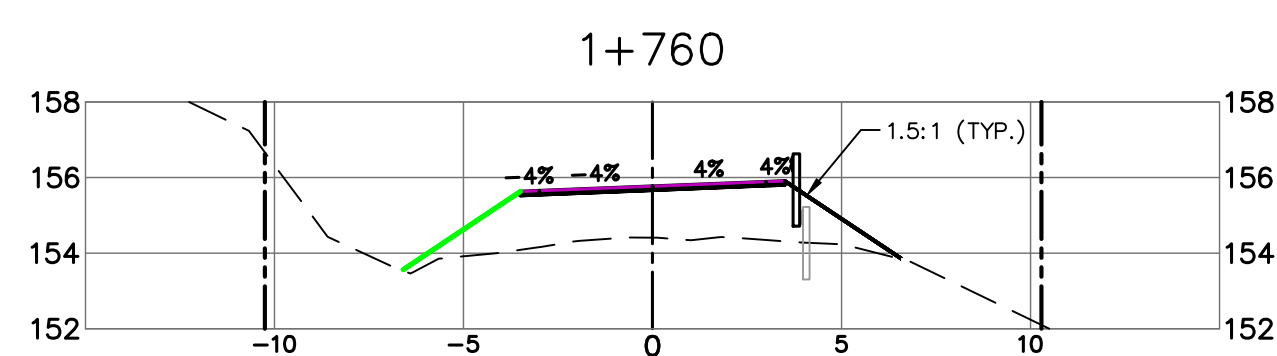
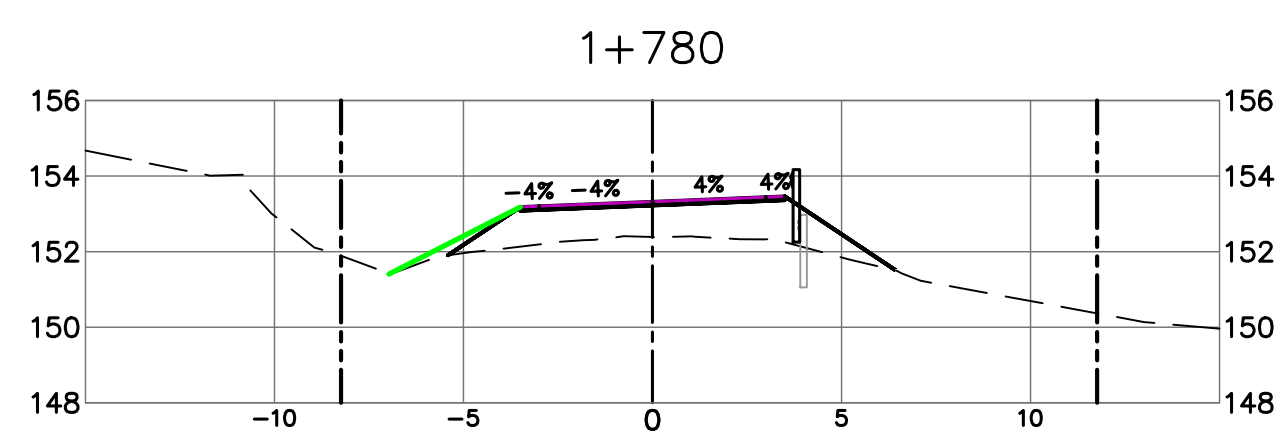
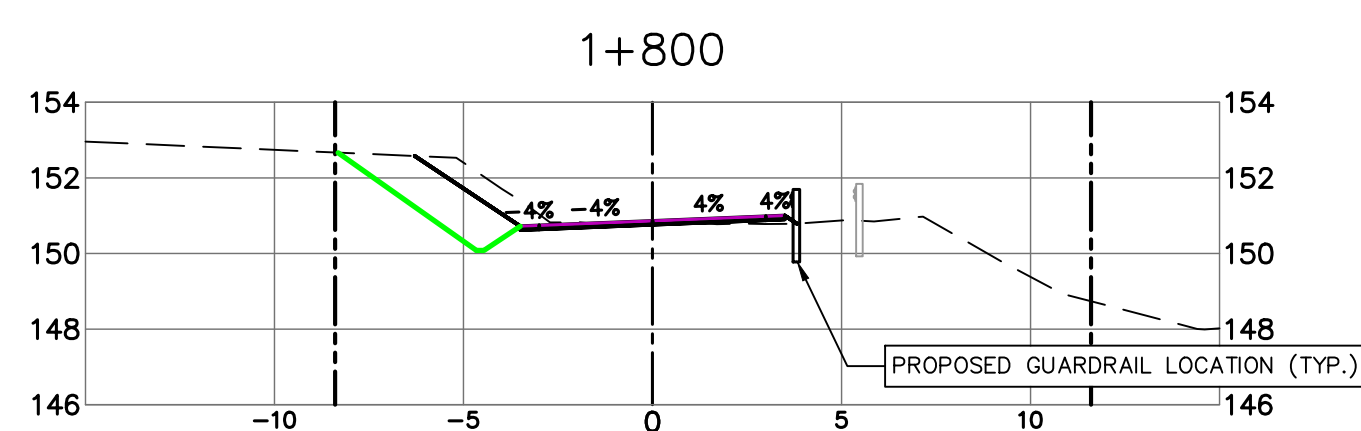
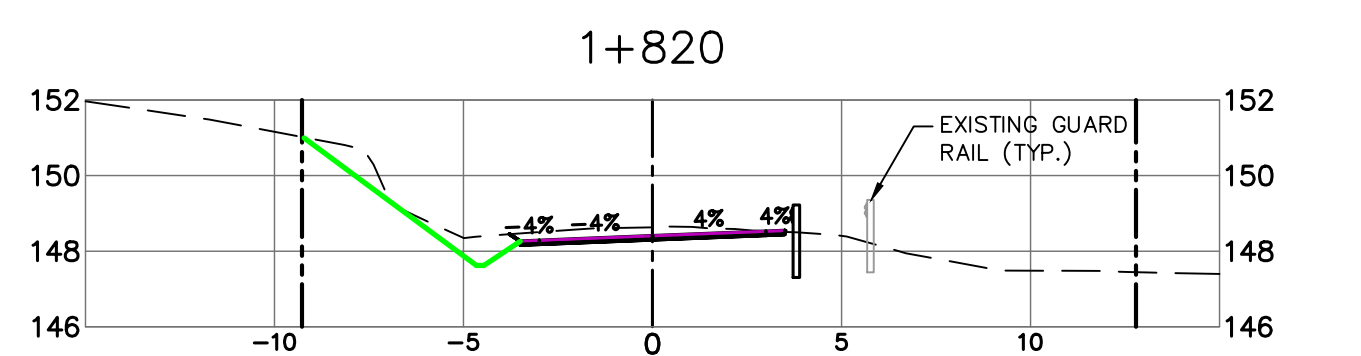
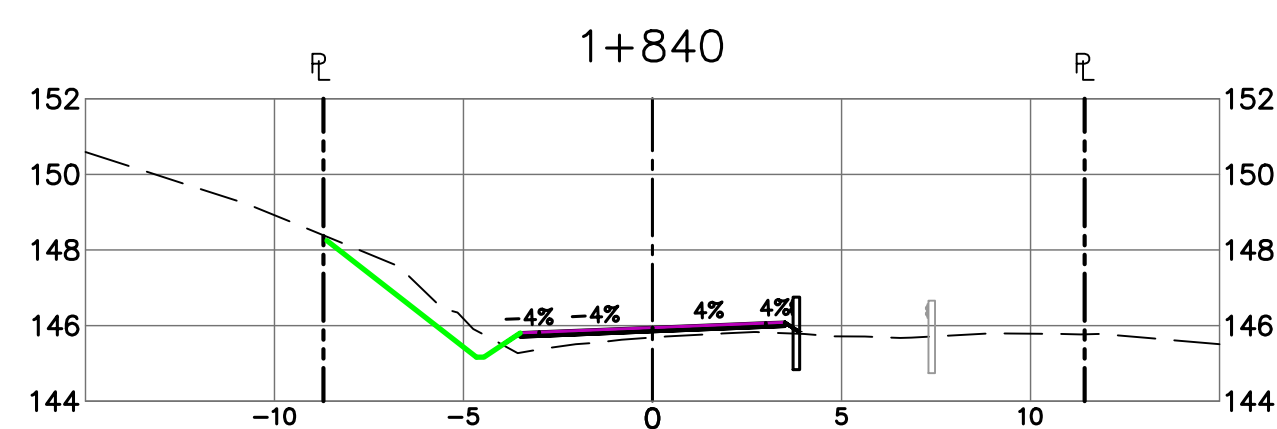
Drawing title/Titre du dessin

SECTIONS
STATION 1+290 TO 1+680

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.093708.001	X2	5

SCALE 1:200H, 1:200V





STEEP SLOPE AREA #4
(2+015 TO 2+070)



5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2018/03/06
2	99% COMPLETE - ISSUED FOR REVIEW	2018/01/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/21
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06
Revision/ Previous	Description/Description	Date/Date

Revision	
Client/client	

**CANADA
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GOVERNMENT SERVICES**

Project title/Titre du projet

ACCESS ROAD AND CULVERT UPGRADES

Consultant Signature Only

WEDLER ENGINEERING LLP

Designed by/Concept par

EAG

Drawn by/Dessine par

TJD

PWGSC Project Manager/Administrateur de Projets TPSGC

TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services

Gestionnaire régionale, Services d'architecture et de génie, TPSG

Drawing title/Titre du dessin

SECTIONS
STATION 1+700 TO 2+050

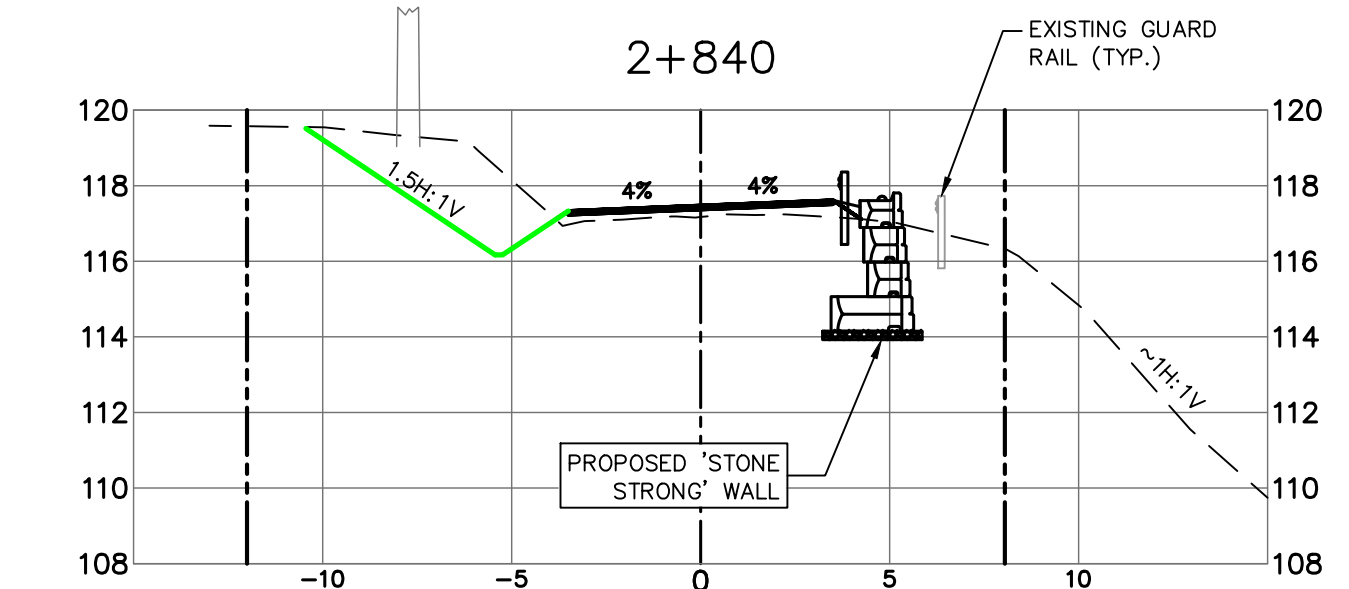
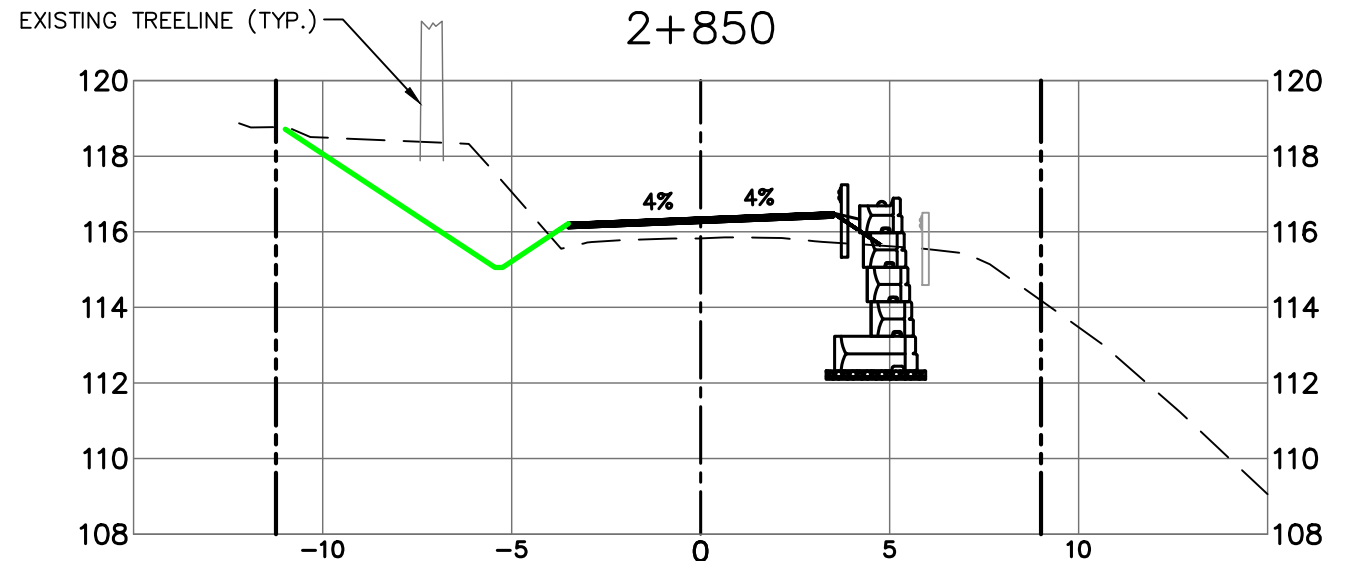
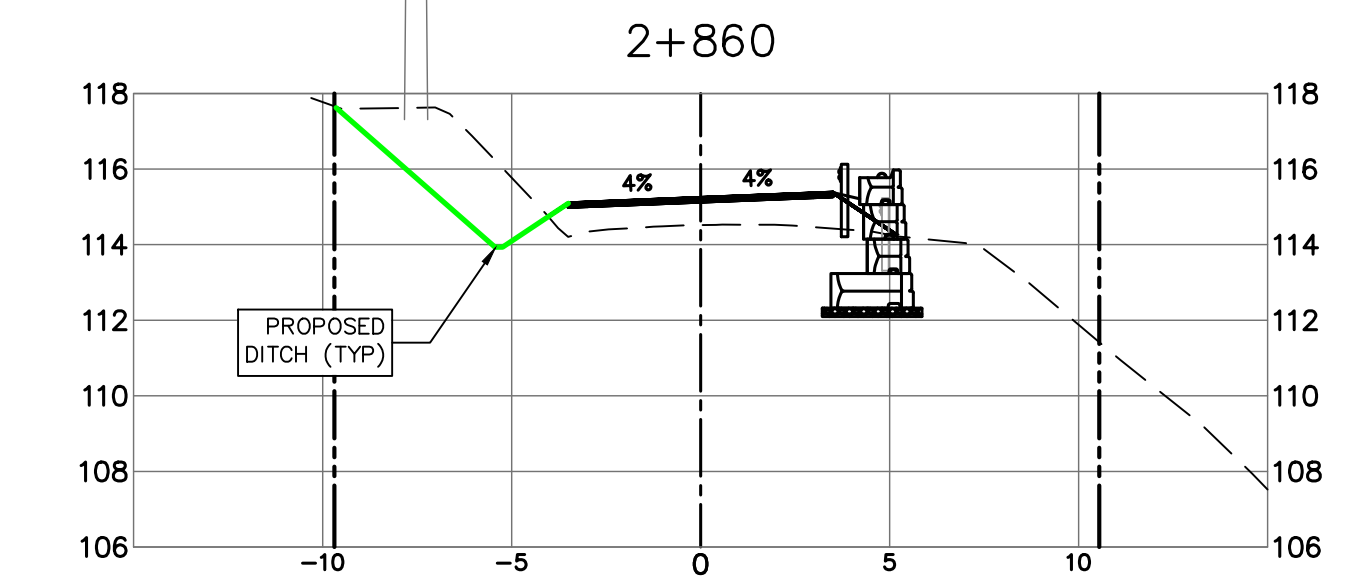
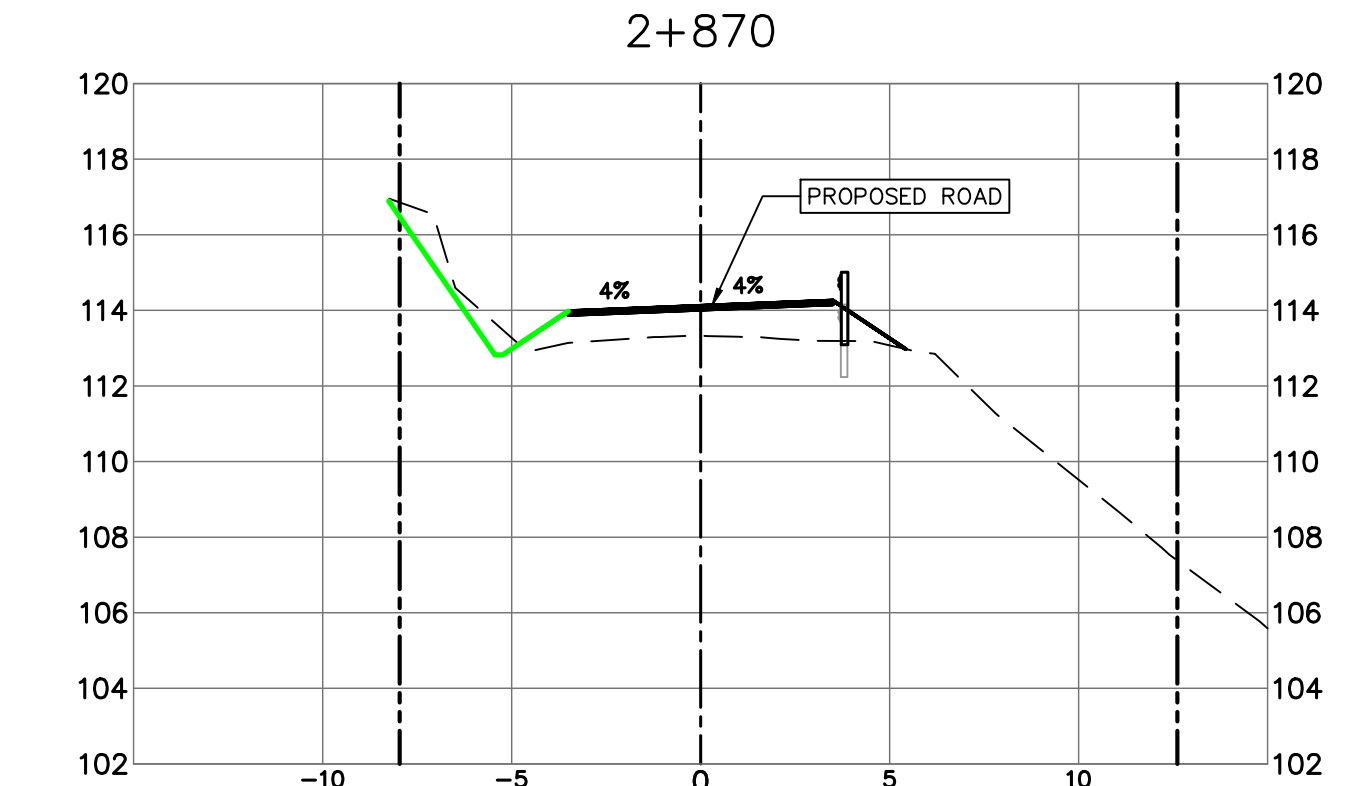
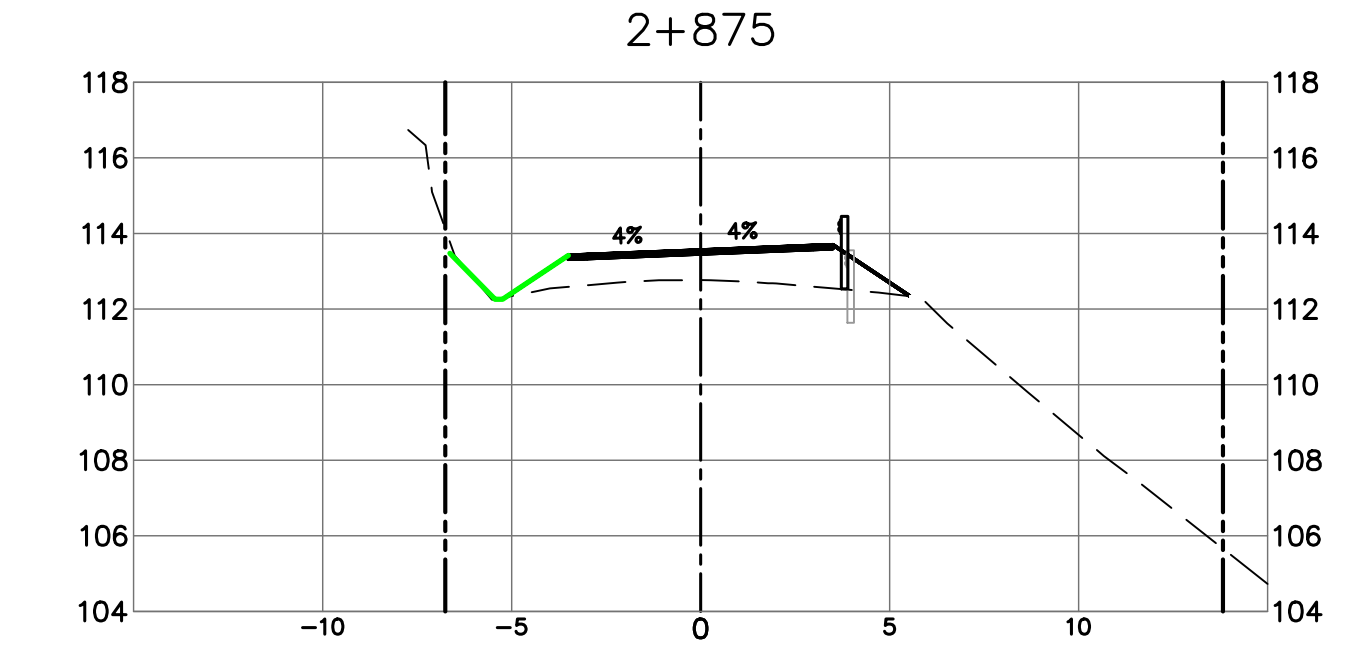
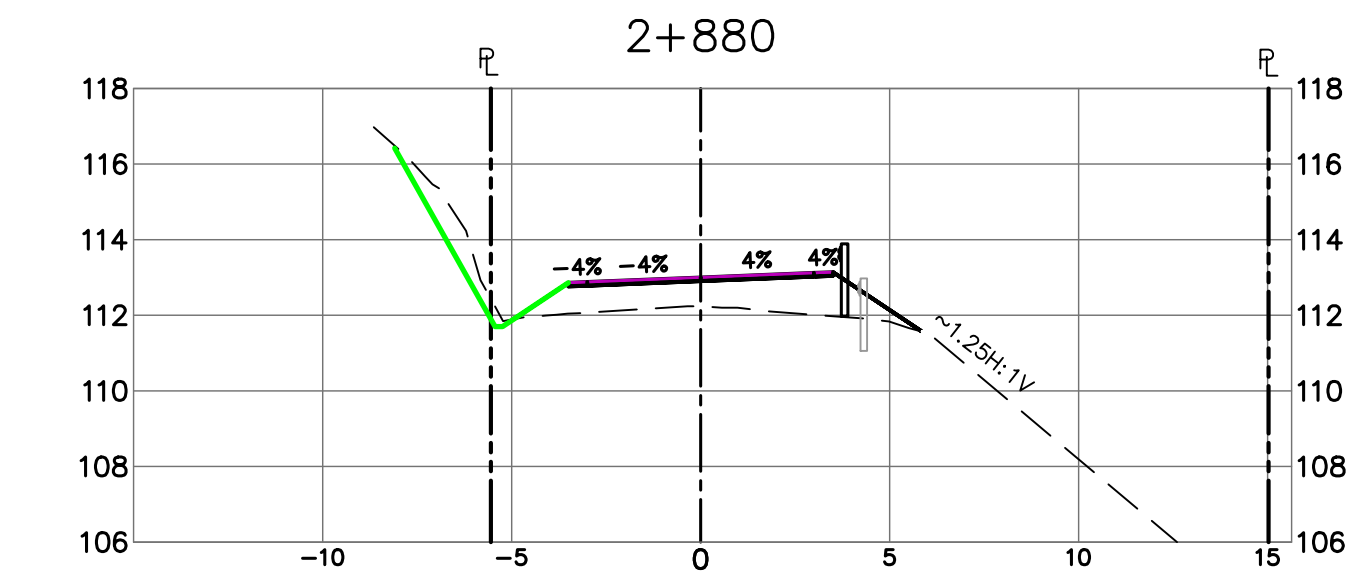
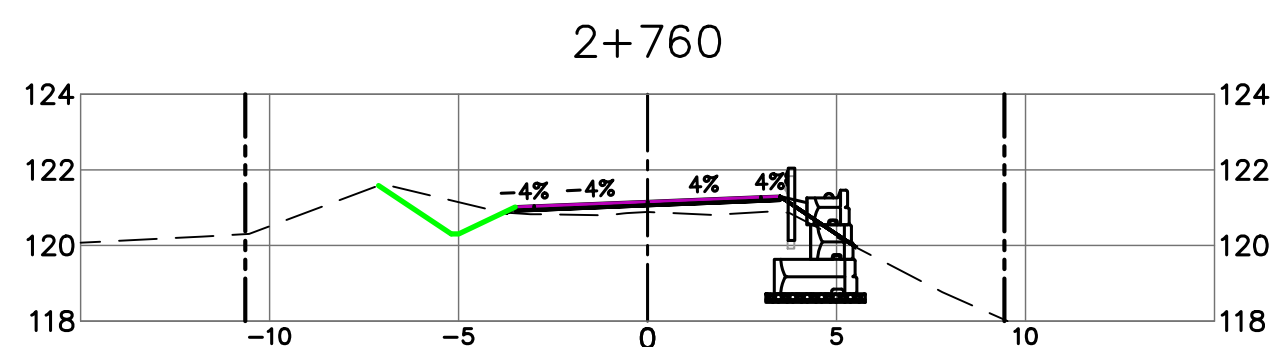
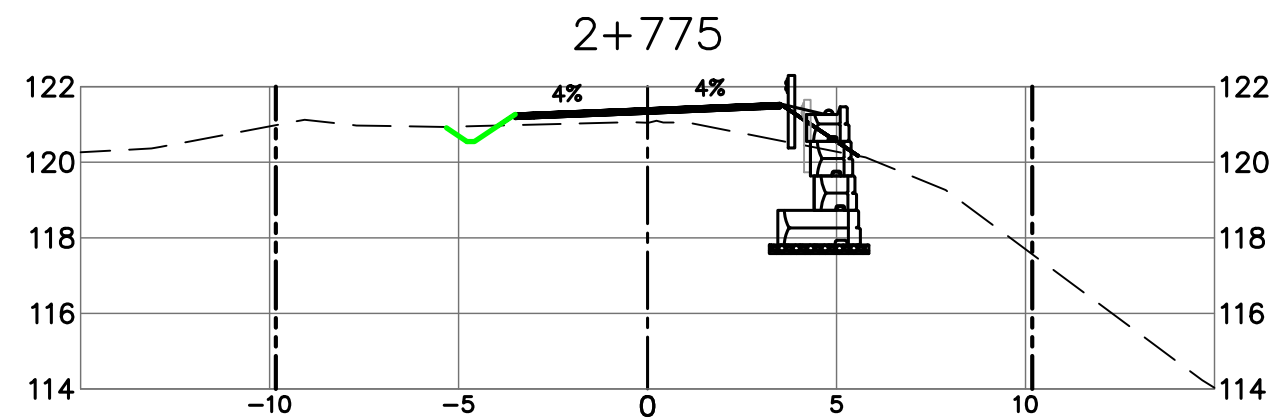
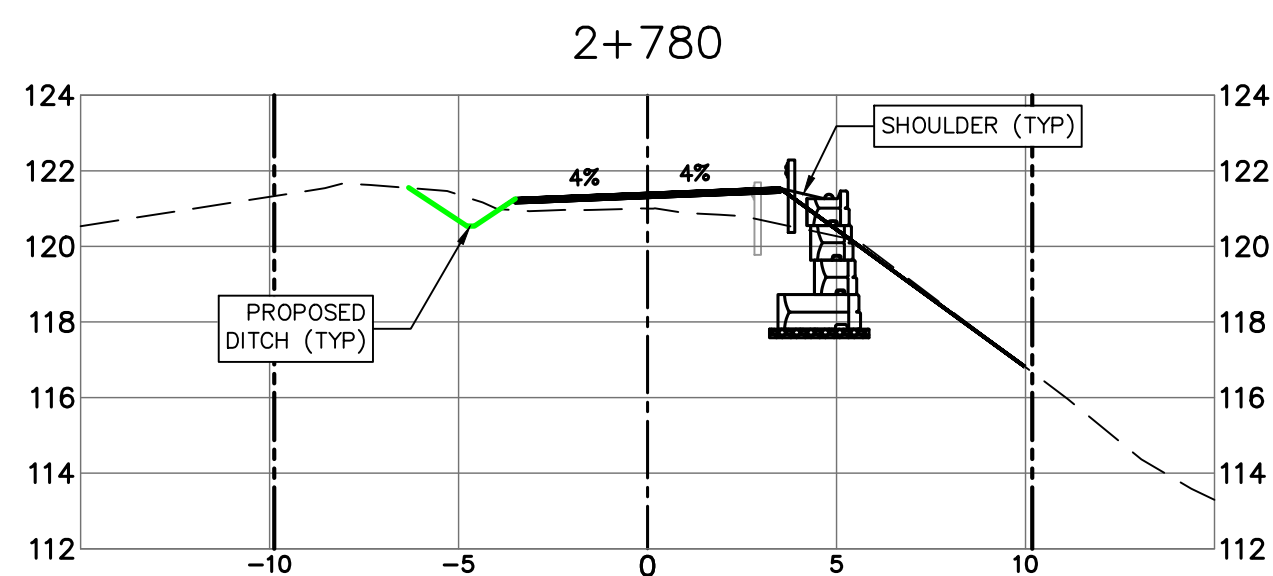
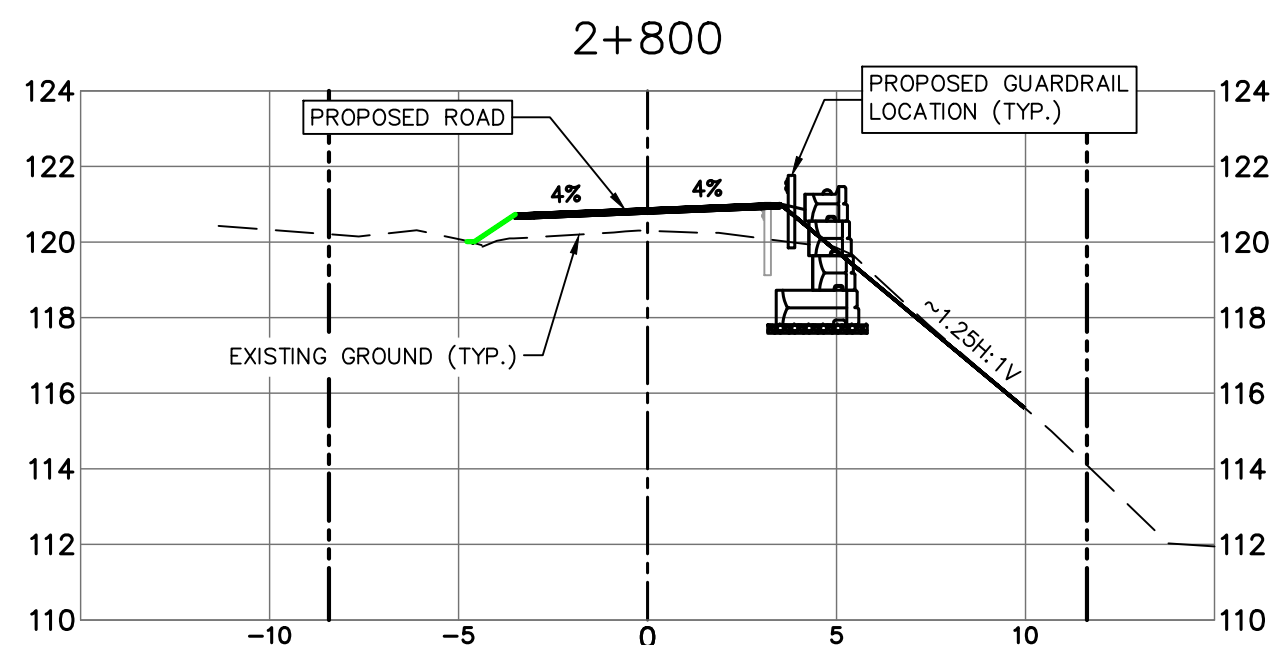
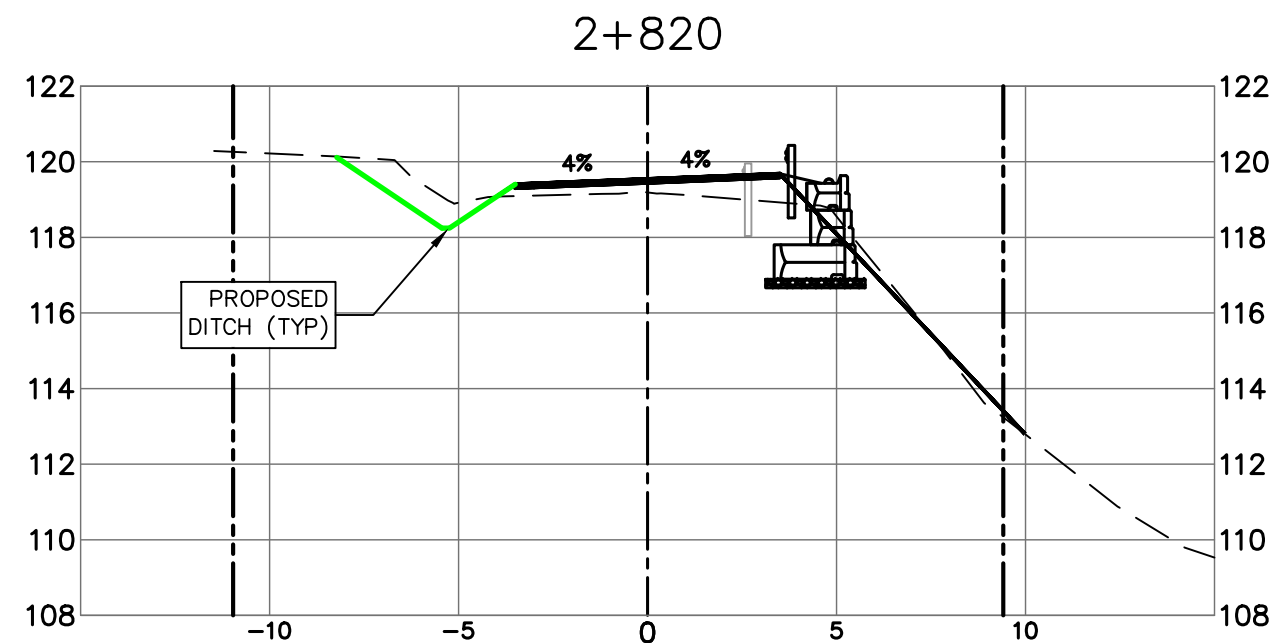
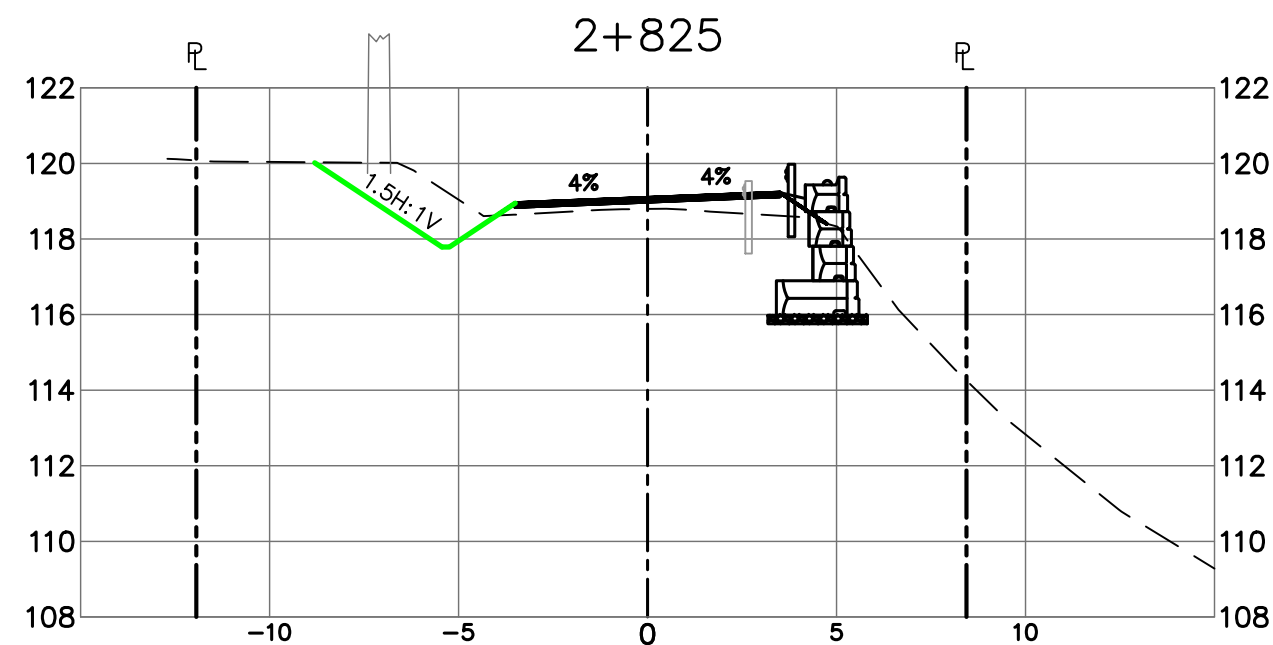
Project No./No. du projet
R.093708.001

X3

Revision no./
La Révision
no. **5**

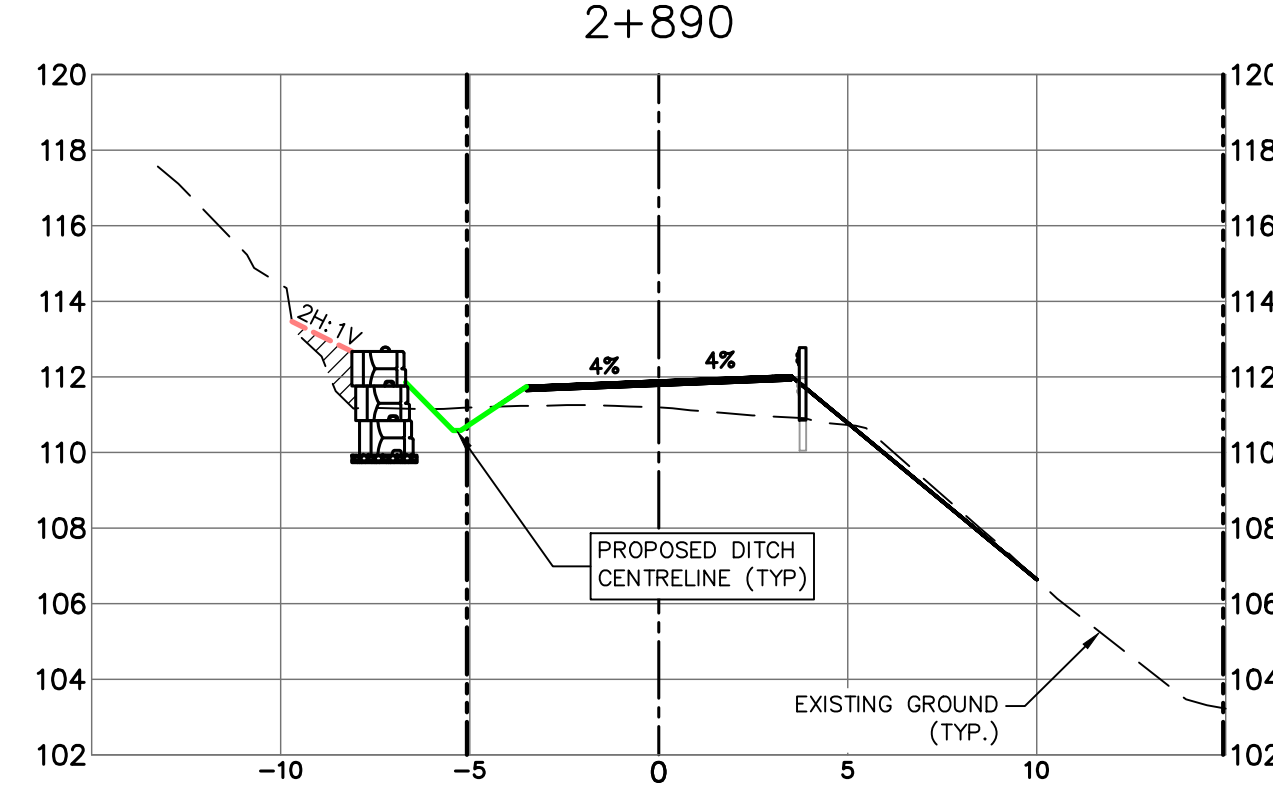
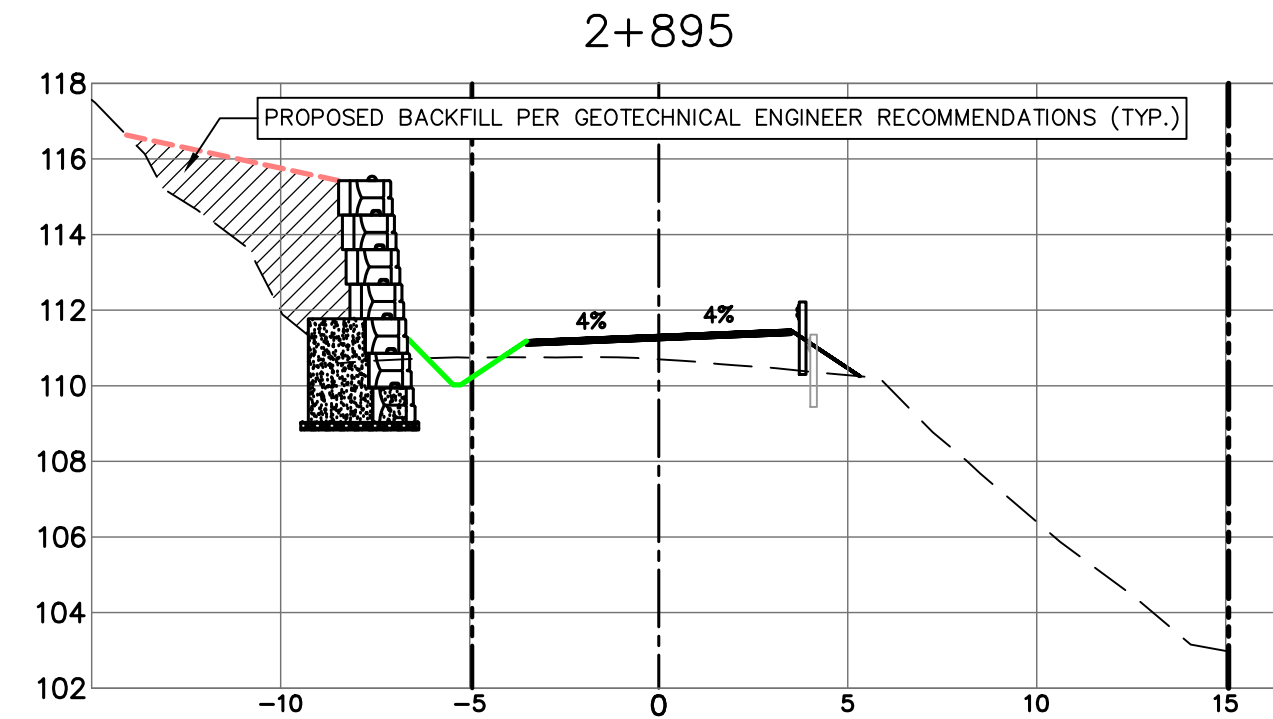
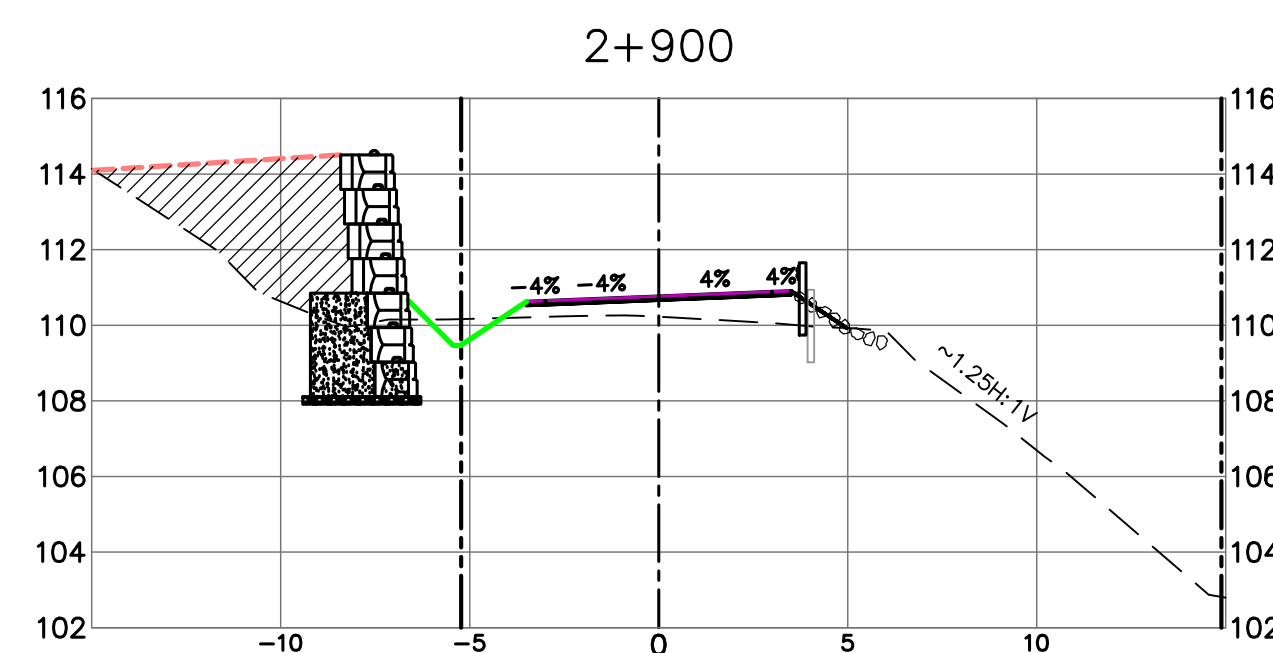
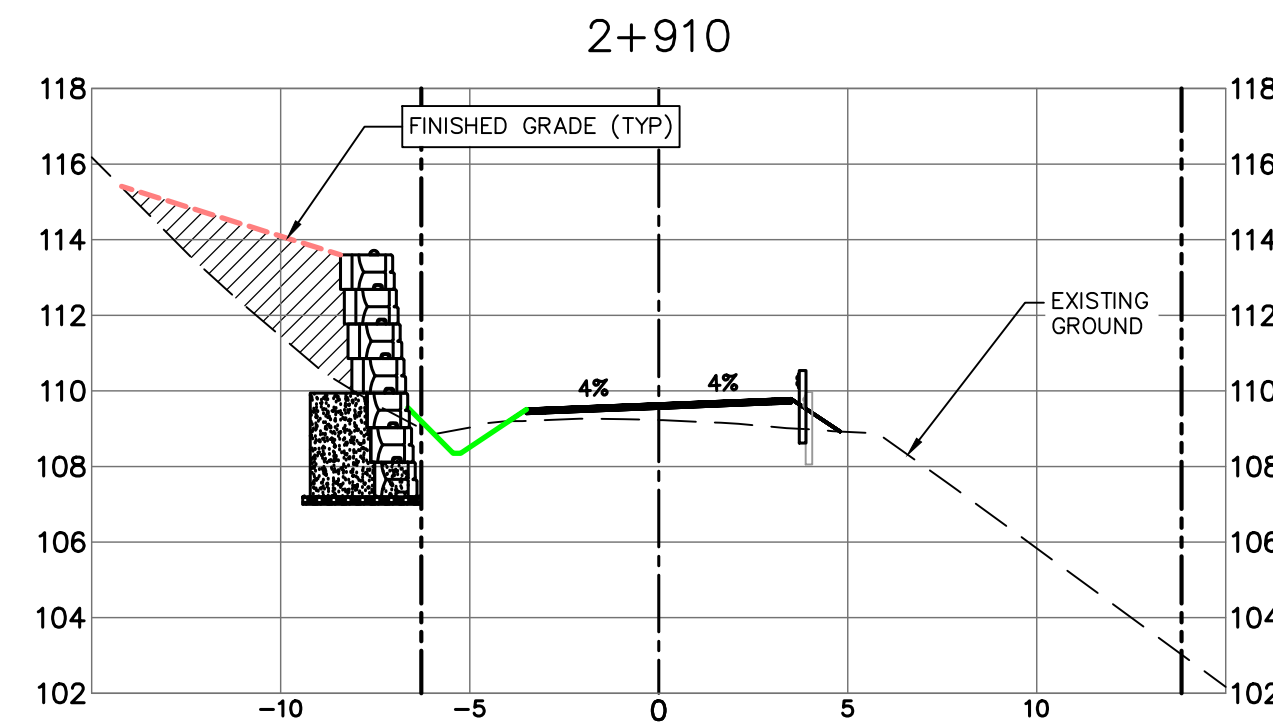
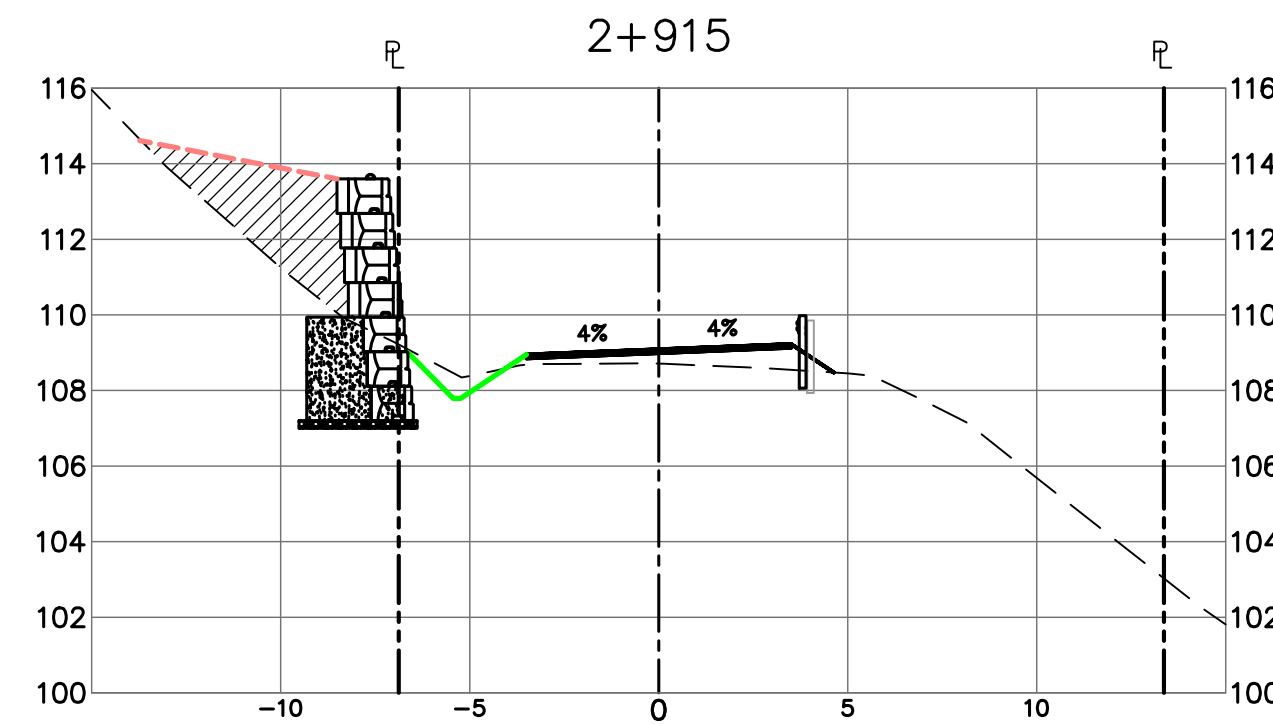
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STEEP SLOPE AREA #8 (2+870 TO 2+960)

STEEP SLOPE AREA #7 (2+690 TO 2+860)



Revision/ Révision	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
2	99% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

Client/client

CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

Project title/Titre du projet

ACCESS ROAD
AND
CULVERT UPGRADES

Consultant Signature Only

WEDLER ENGINEERING LLP

Designed by/Concept par

EAG

Drawn by/Dessiné par

TJD

PWGSC Project Manager/Administrateur de Projets TPSCG

TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG

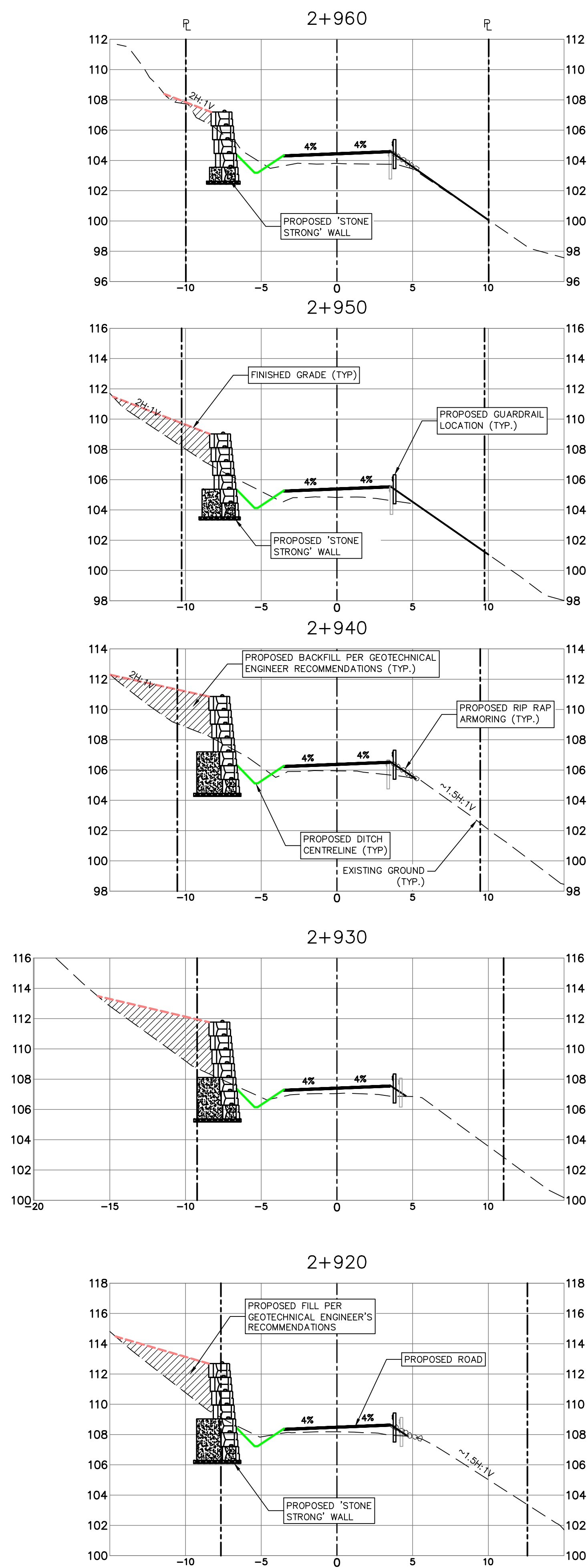
Drawing title/Titre du dessin

SECTIONS
STATION 2+760 TO 2+915

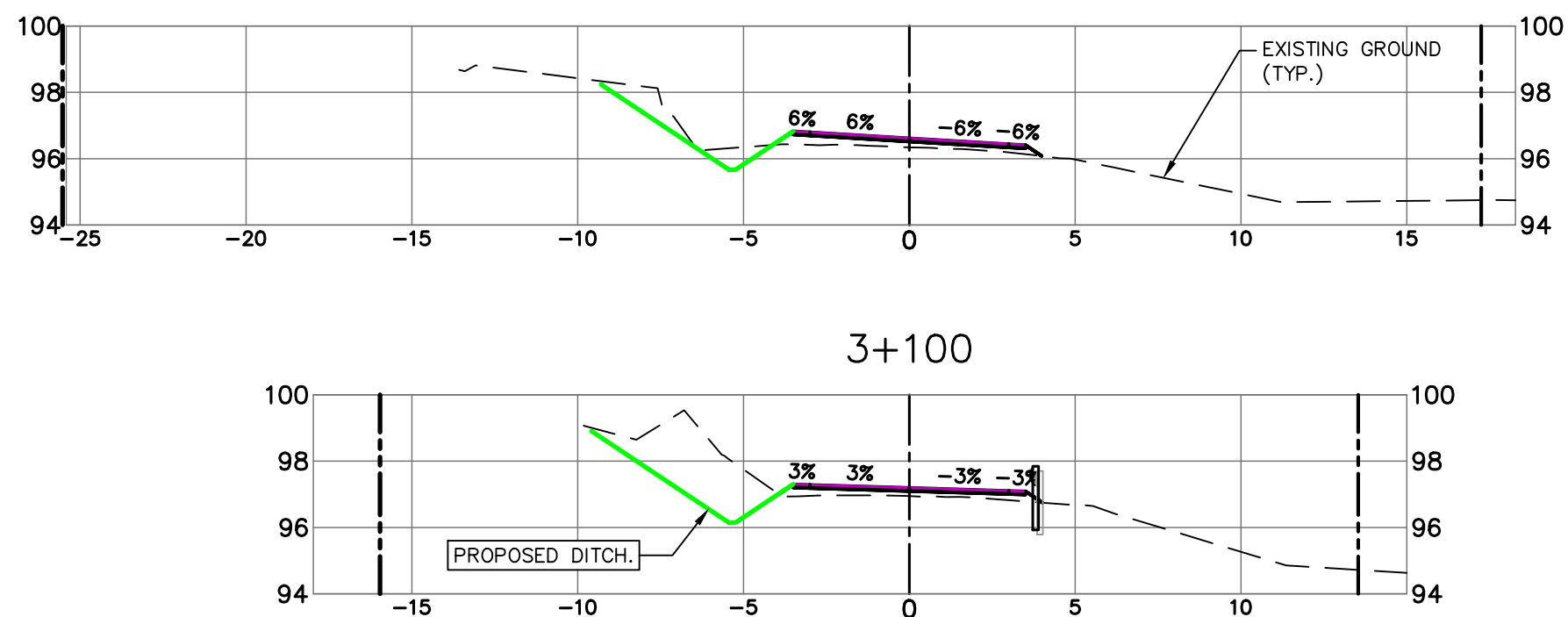
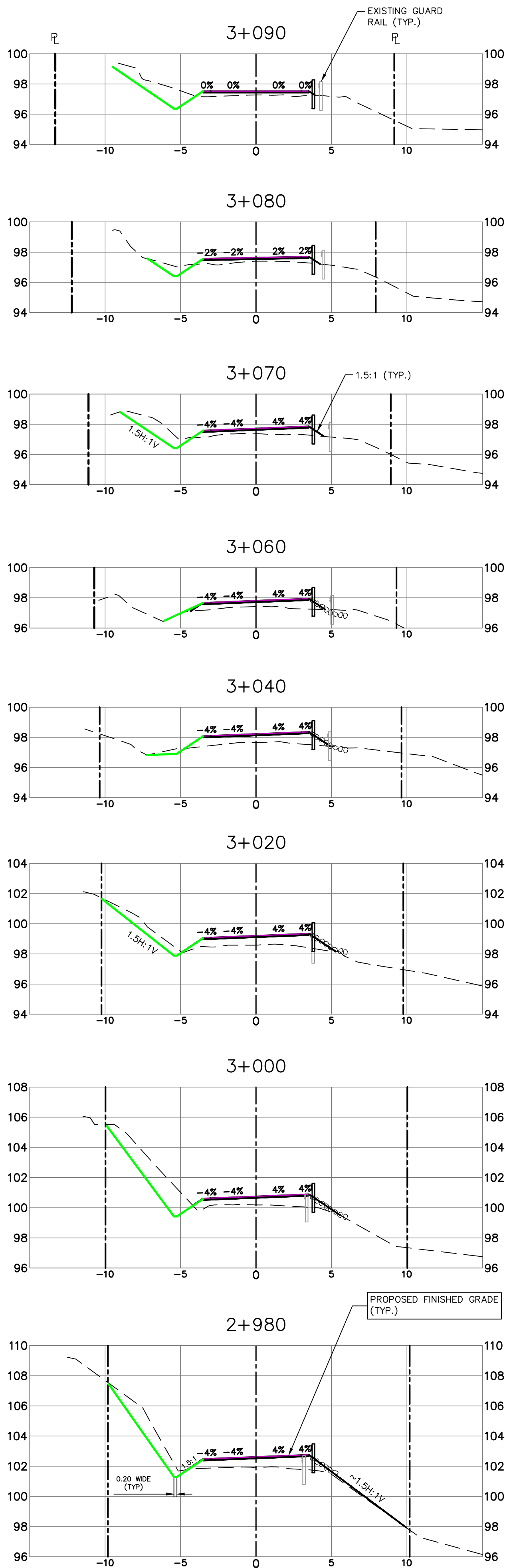
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.093708.001	X6	5

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STEEP SLOPE AREA #8 (2+870 TO 2+920)



Revision/ Révision	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
2	99% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

CANADA
PUBLIC WORKS AND
GOVERNMENT SERVICES

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AND
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TJD
PWGSC Project Manager/Administrateur de Projets TPSGC
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

SECTIONS
STATION 2+920 TO 3+180

Project No./No. du
projet
R.093708.001

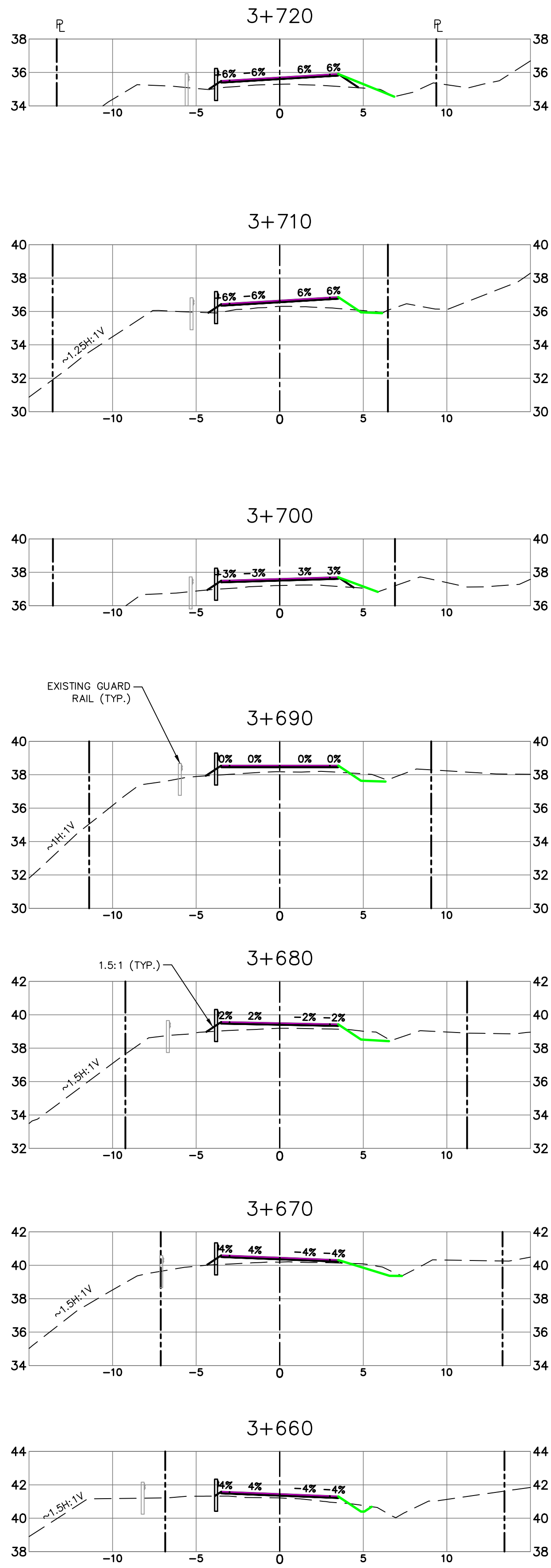
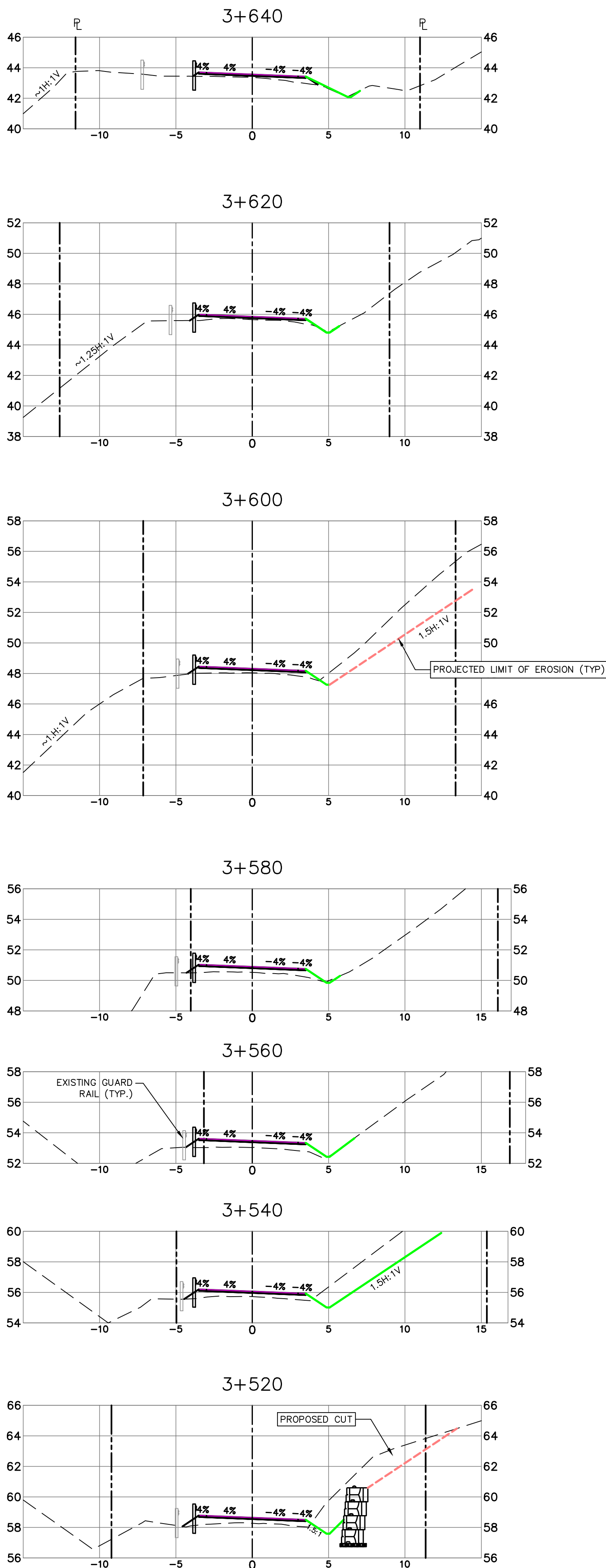
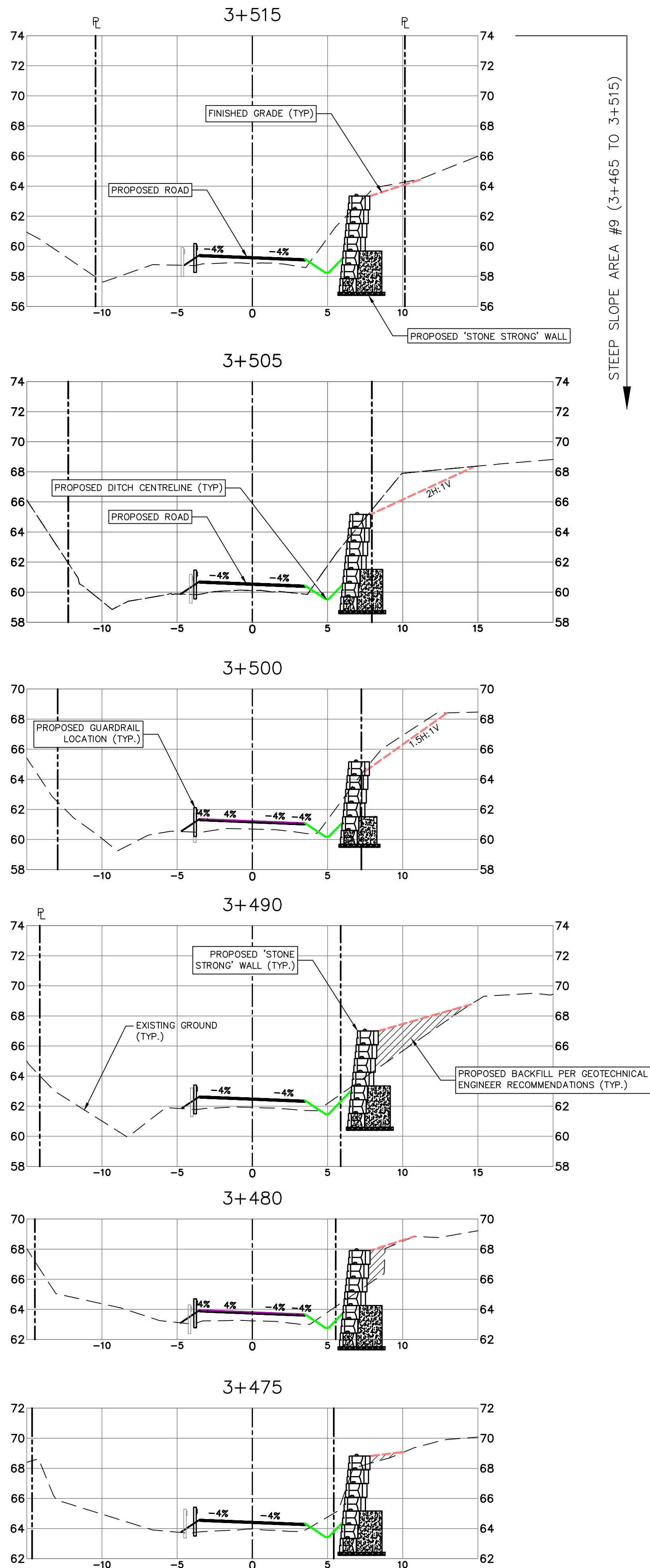
Sheet/ Feuille
X7

Revision no./
La Révision
no.
5

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SCALE 1:200H, 1:200V



Revision/ Révision	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
2	99% COMPLETE - ISSUED FOR REVIEW	2018/10/26
1	66% COMPLETE - ISSUED FOR REVIEW	2018/07/27
0	33% COMPLETE - ISSUED FOR REVIEW	2017/02/06

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TJD
PWGSC Project Manager/Administrateur de Projets TPSCC
TONY TANG, P.Eng.
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCC

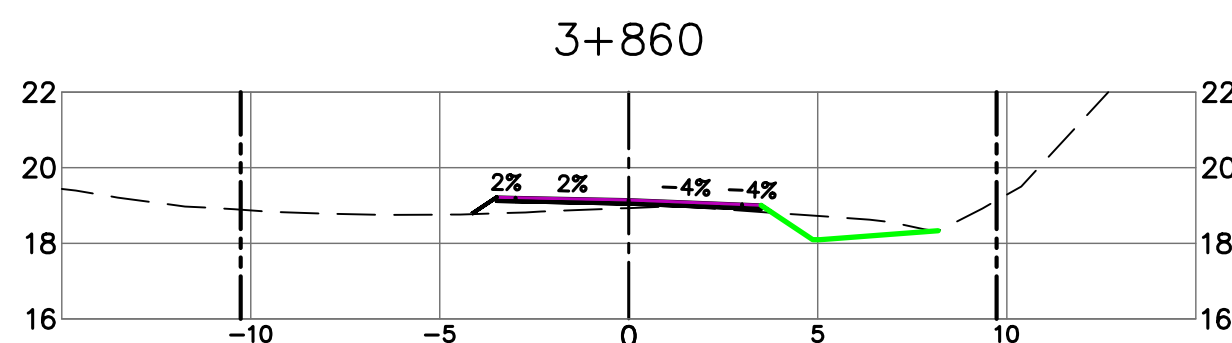
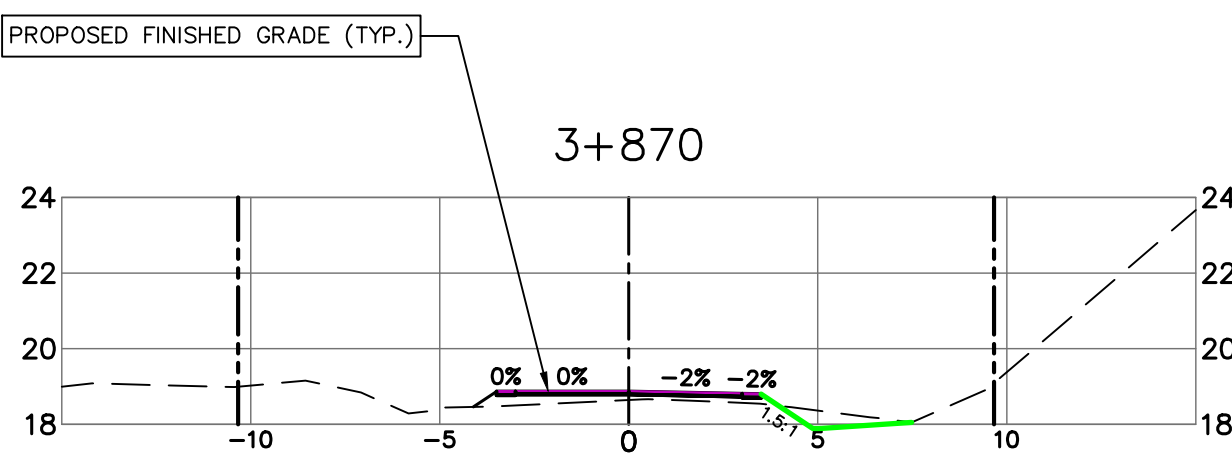
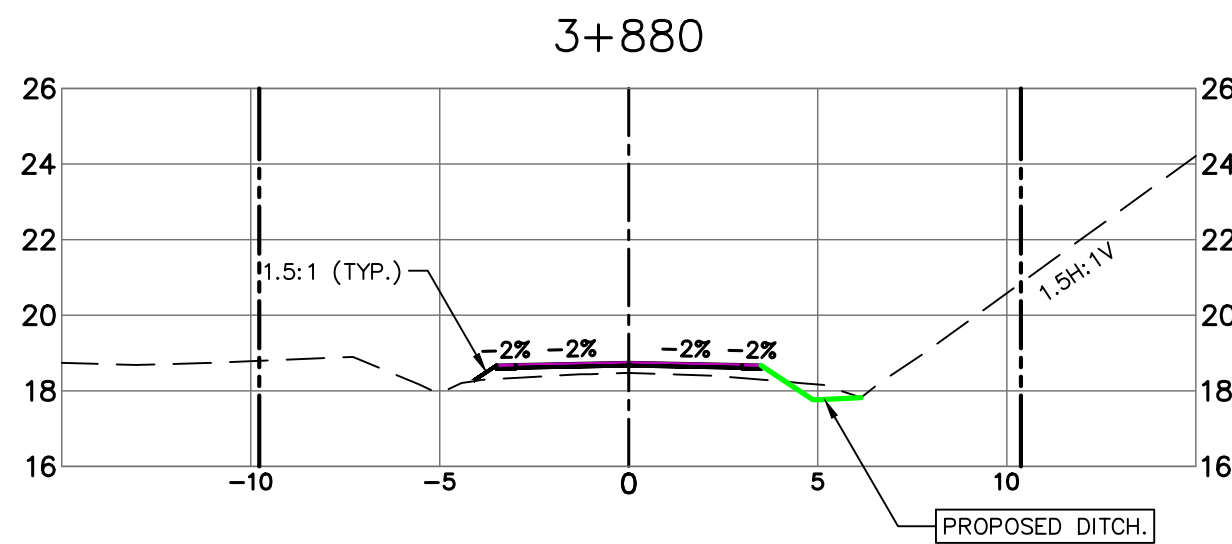
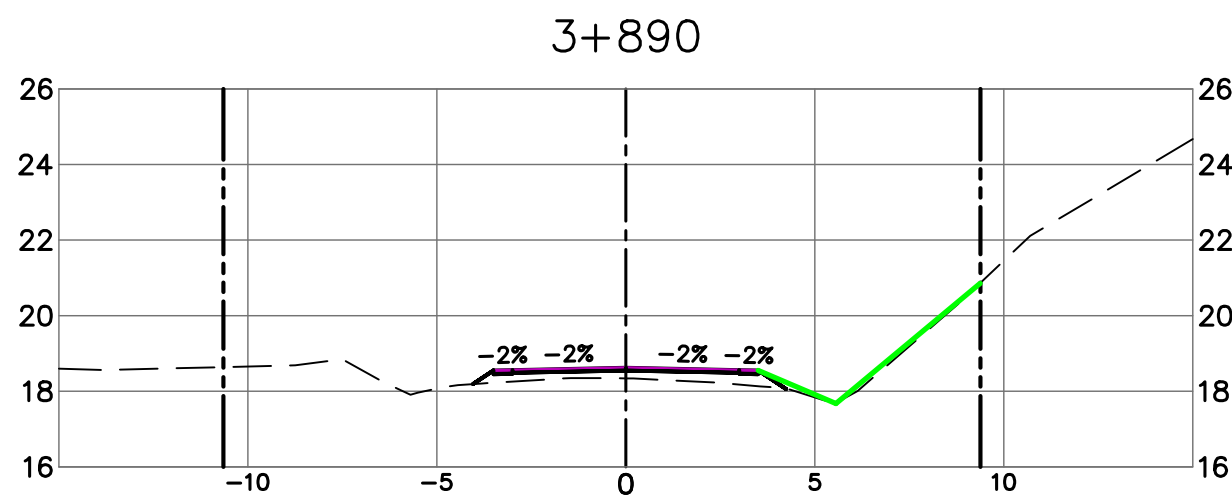
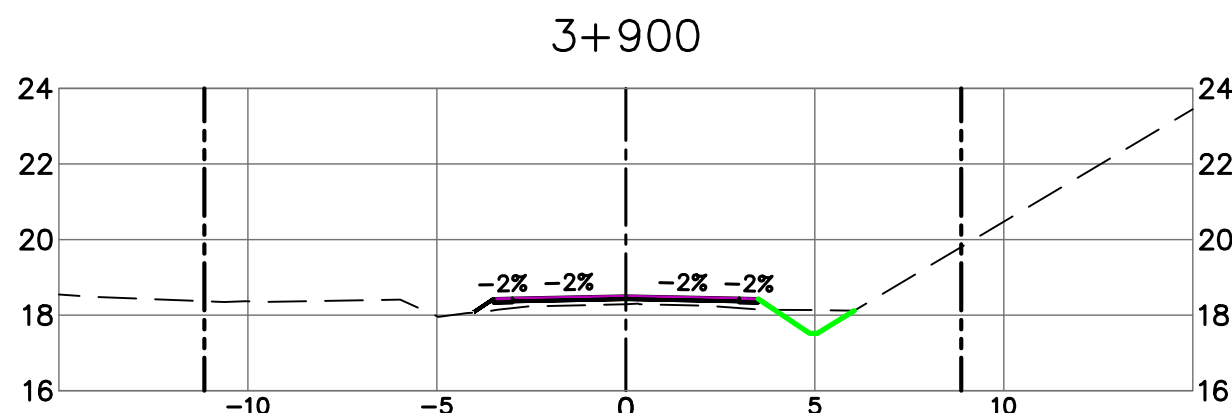
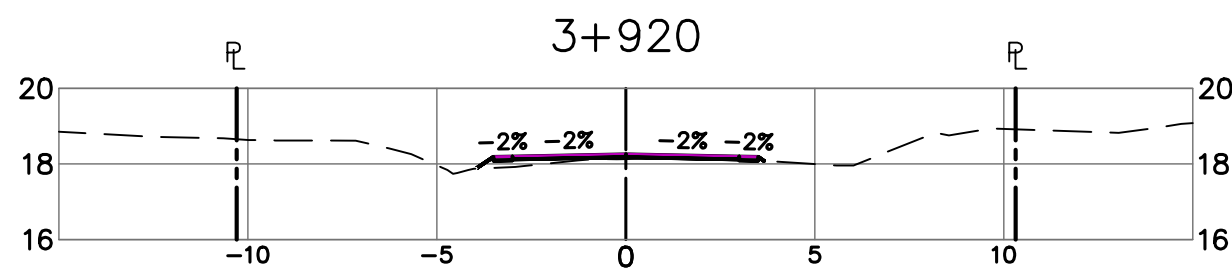
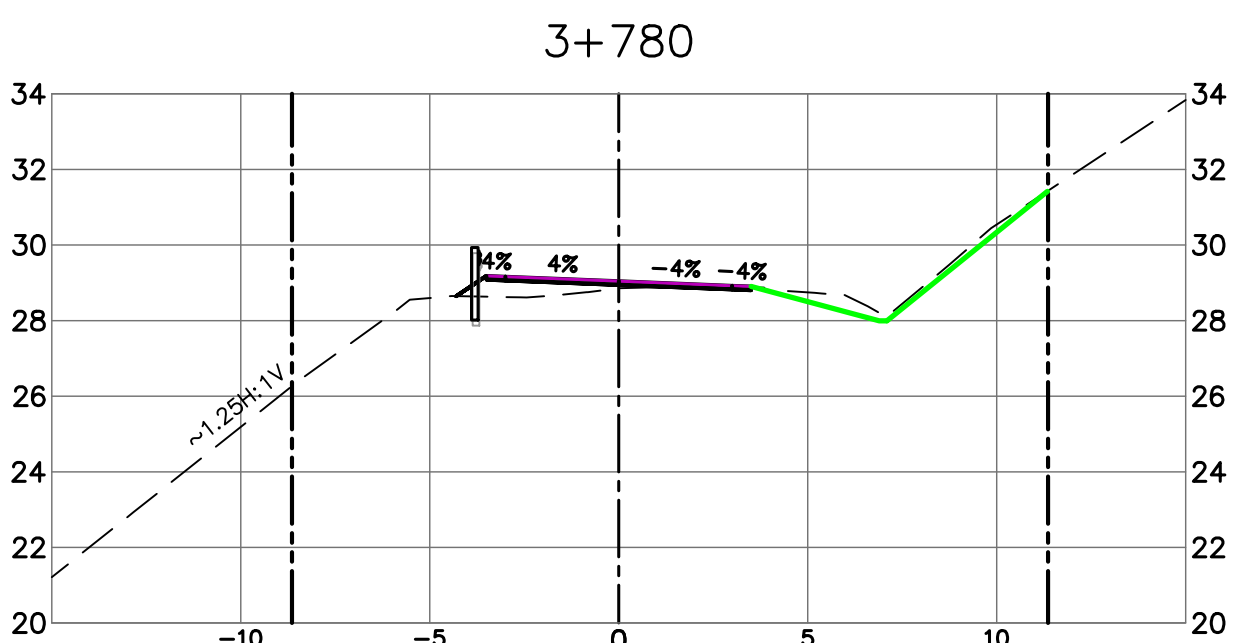
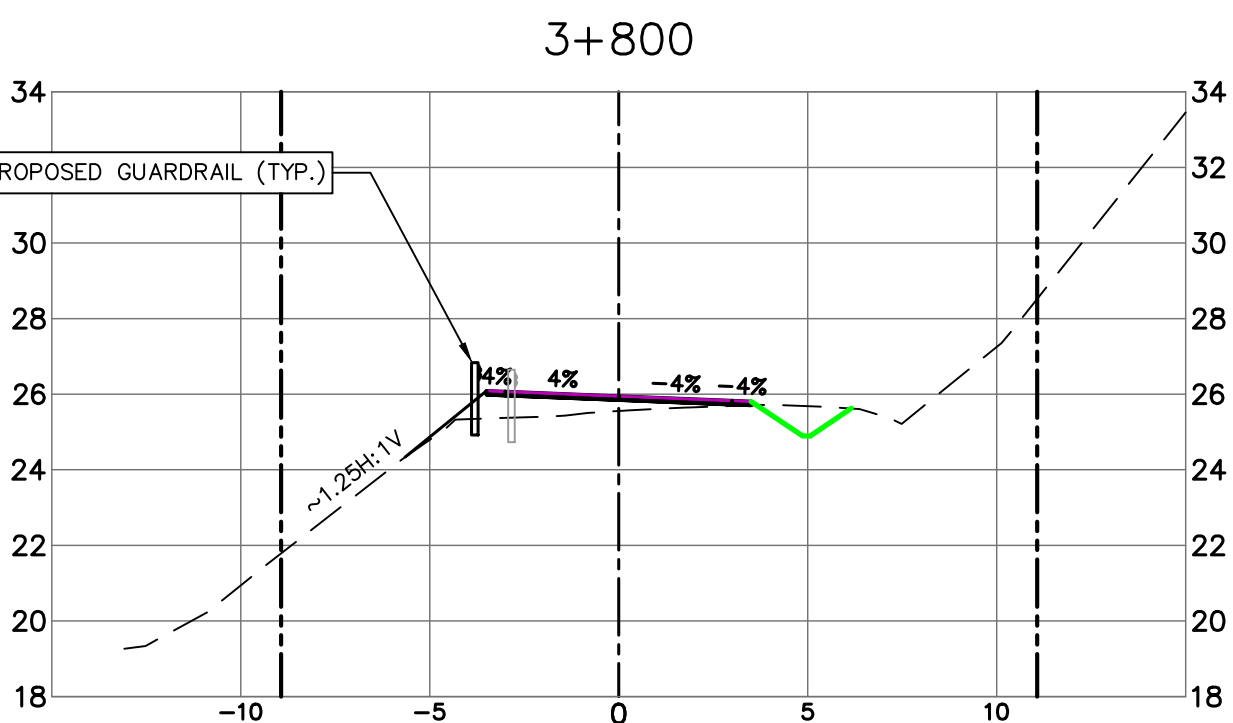
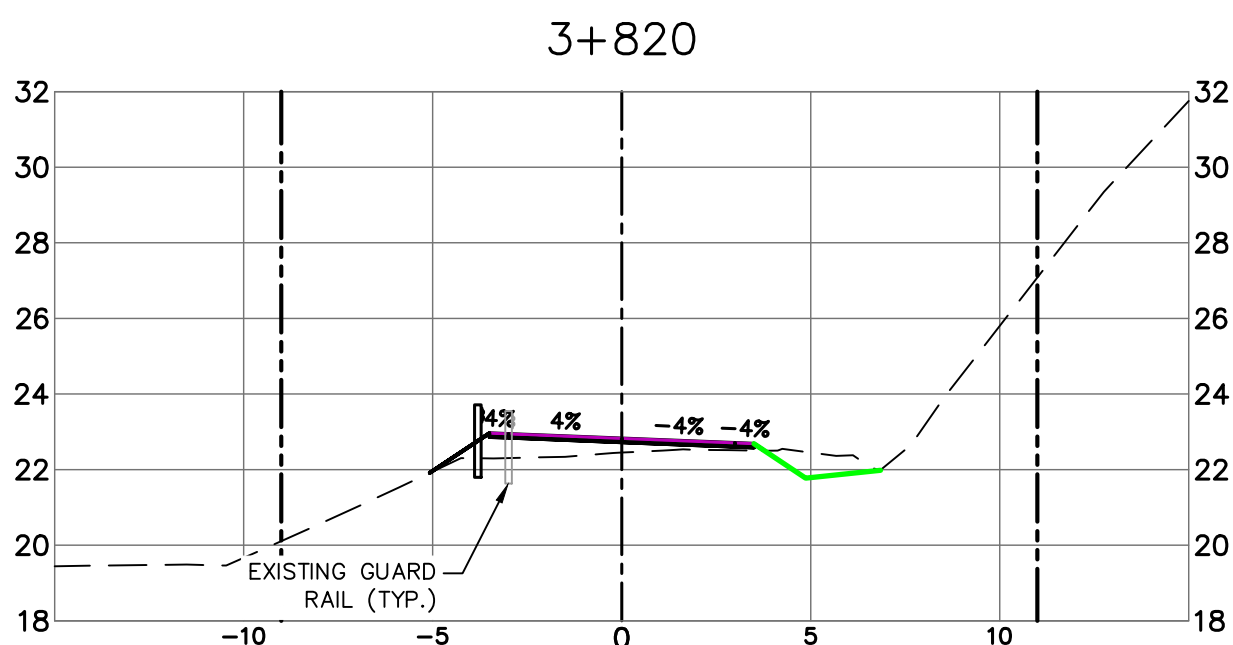
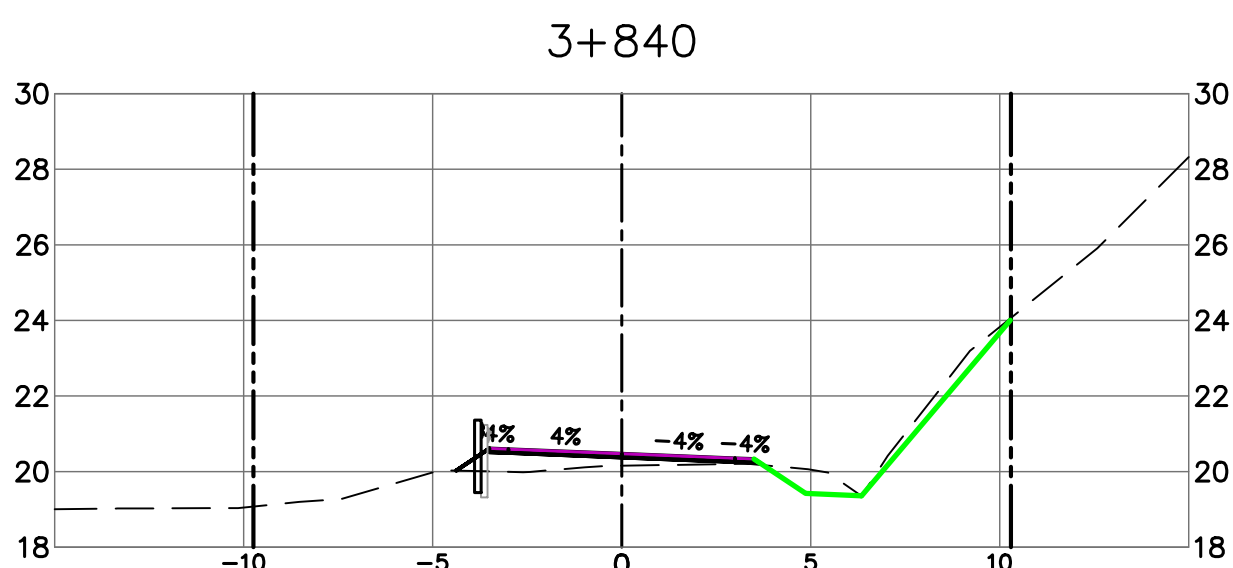
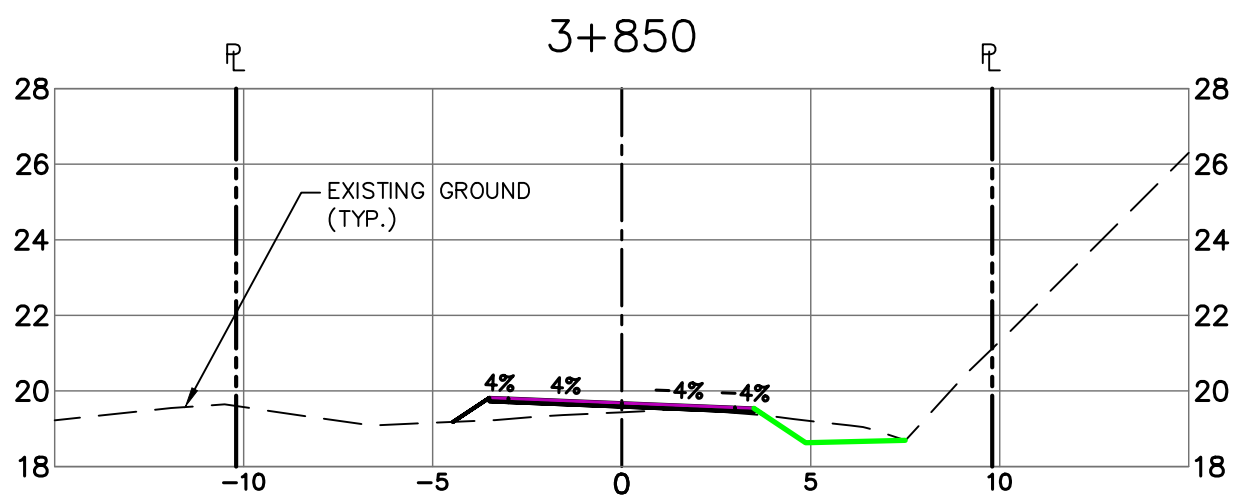
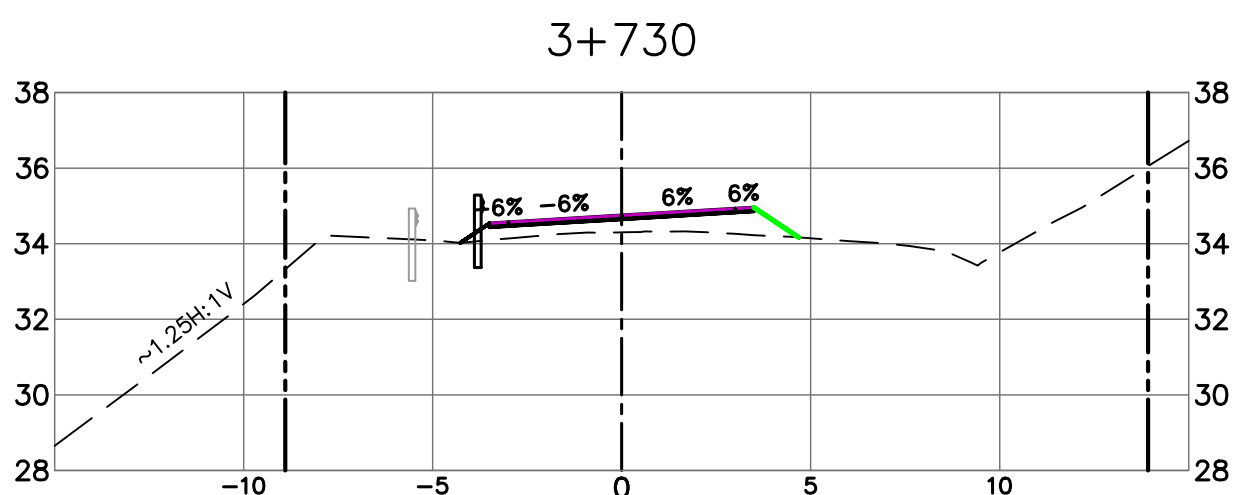
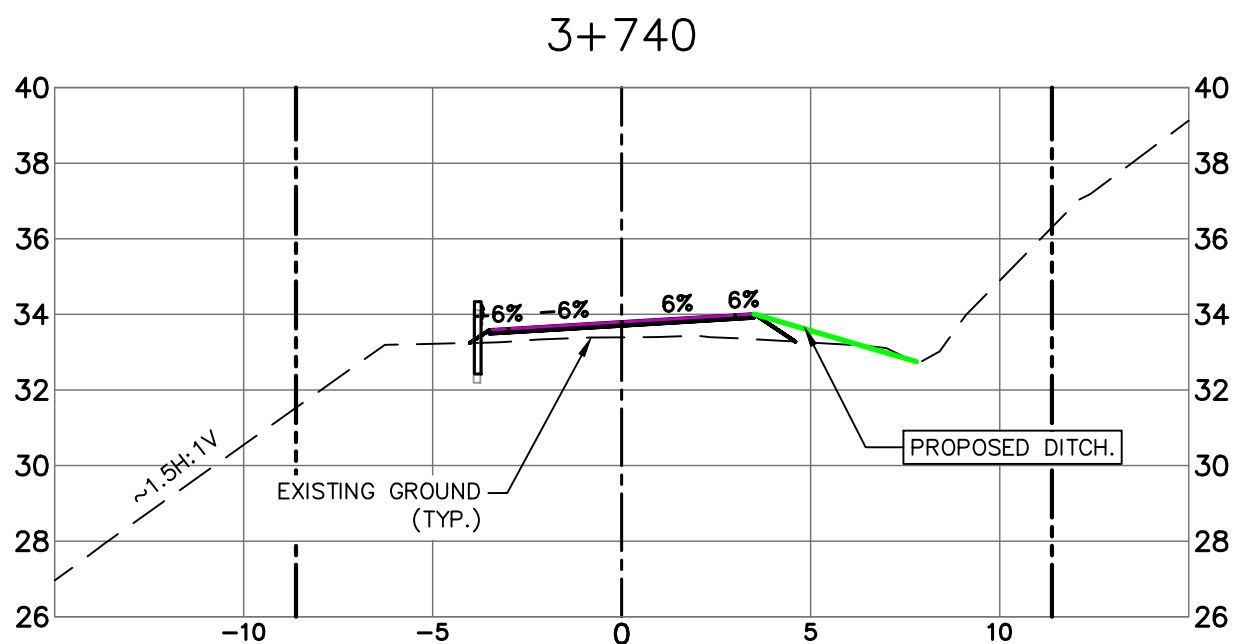
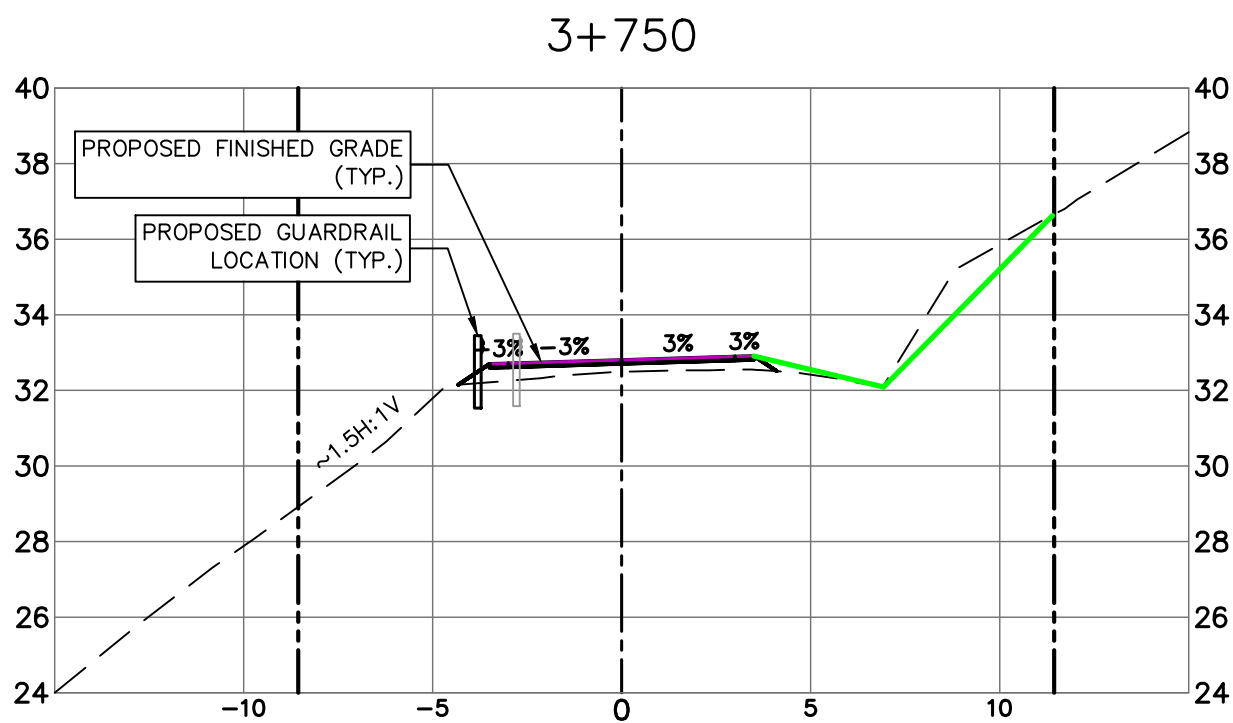
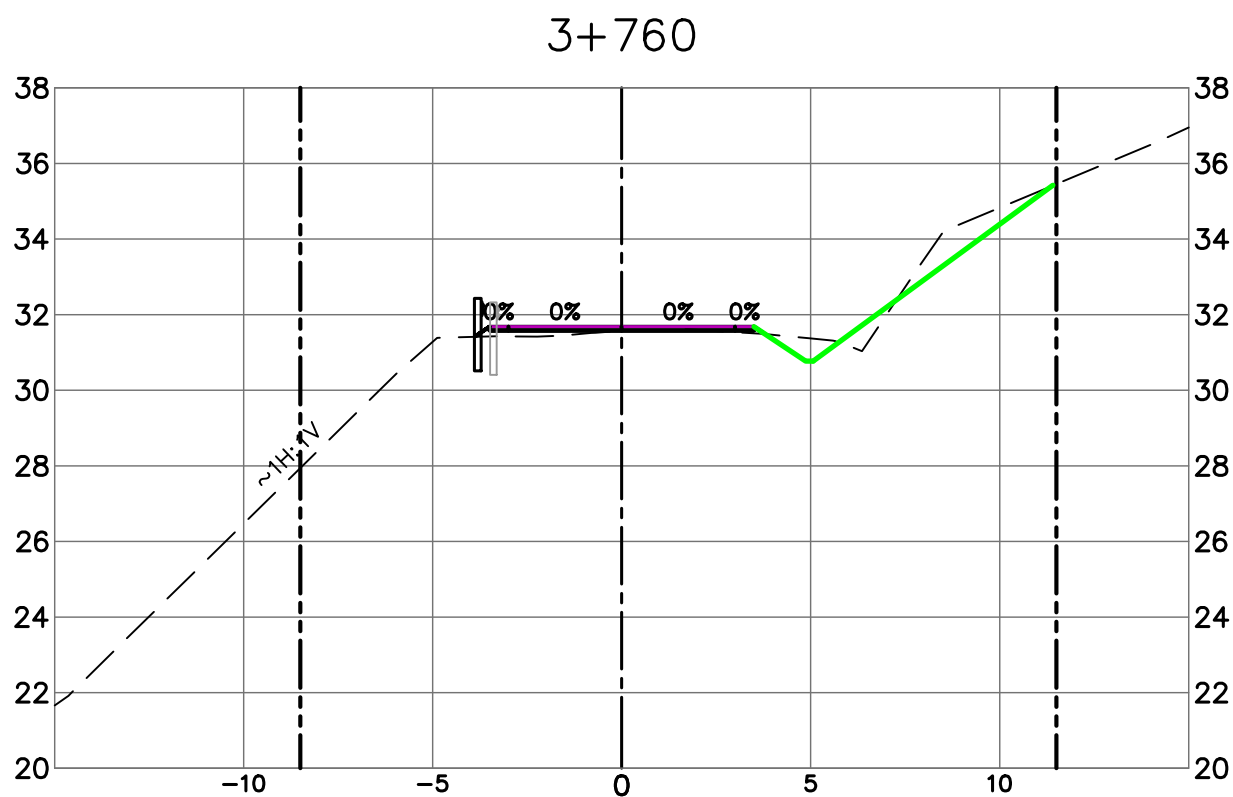
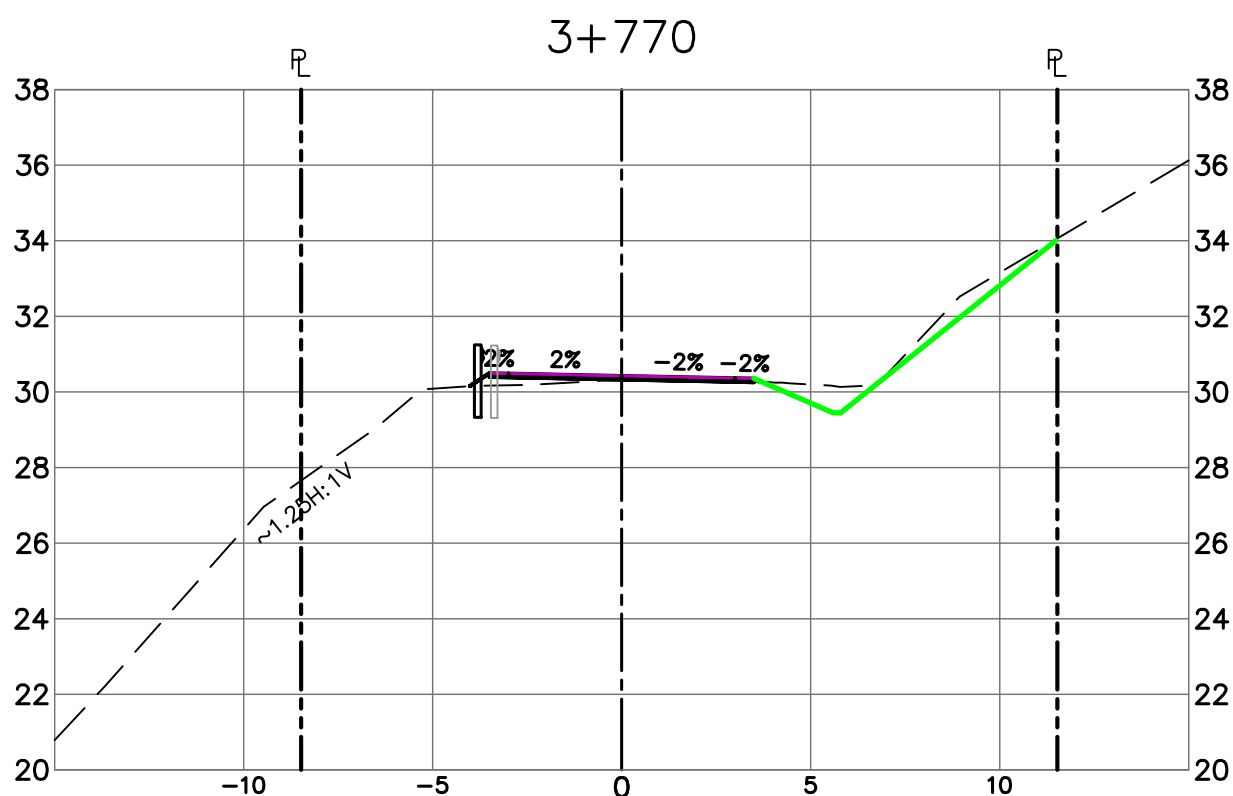
SECTIONS
STATION 3+475 TO 3+720

Project No./No. du
projet
R.093708.001
Sheet/ Feuille
X9
Revision no./
La Révision
no.
5



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Revision/ Révision	Description/Description	Date/Date
5	ADDENDUM 1	2021/01/21
4	ISSUED FOR TENDER	2020/06/15
3	100% COMPLETE - ISSUED FOR REVIEW	2019/03/05
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Project title/Titre du projet

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WEDLER ENGINEERING LLP

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TJD

PWGSC Project Manager/Administrateur de Projets TPSCC

TONY TANG, P.Eng.

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCC

Drawing title/Titre du dessin

SECTIONS
STATION 3+730 TO 3+920

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.093708.001	X10	5