

Parks  
Canada

Parcs  
Canada

# PACIFIC RIM NATIONAL PARK RESERVE

ʔapsc̓iik ʔas̓ii

(Ups-cheek ta-shee)

“Going in the right direction on the trail”

## WAYII AREA TRAIL DESIGN

ISSUED FOR TENDER  
PROJECT NO. PCA #1522



FEBRUARY 2021

**PARSONS**

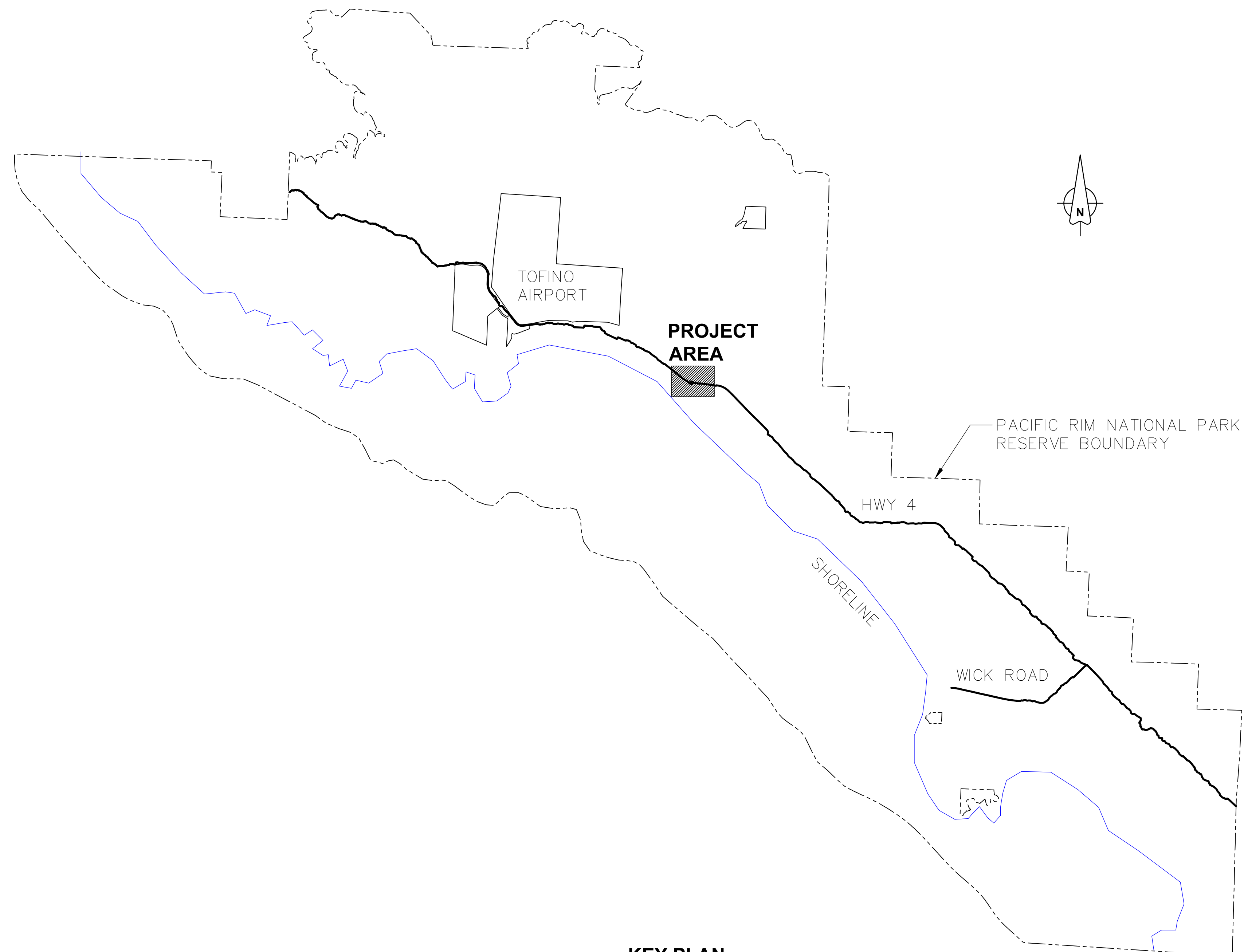
ʔapsc̓iik ʔas̓ii  
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PARKS CANADA

# PACIFIC RIM NATIONAL PARK RESERVE

ʔapsčik ʔasii (Ups-cheek ta-shee)  
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## WAYII AREA TRAIL DESIGN



KEY PLAN



FEBRUARY 2021

**PARSONS**

ʔapsčik ʔasii  
“Going in the right direction on the trail”

# WAYII AREA TRAIL DESIGN INDEX SHEET

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apsčilk tasii  
“Going in the right direction on the trail”

Q:\TV\03121 - PWS2 S2A 2016-19\PACIFIC TRAVERSE TRAIL\DWG\ESCAPMENT\VF\ESCAPMENT G-01 COVER SHEET.DWG PLOTTED ON: 2021/02/16 3:46pm BY: p0208HE



\\CANAD501\VAN\TY\603121 - PWGSC\_S04\_2016-19\PACIFIC TRAVERSE\TRAIL\DWG\ESCAPMENT\UT\ESCAPMENT E-01 PLAN.DWG PLOTTED ON 2021/02/17 4:11pm BY P00281EE

LEGEND

EXISTING

- EDGE OF PAVEMENT
- SHOULDER OF HIGHWAY
- CONCRETE ROADSIDE BARRIER
- TOP OF BANK
- CENTER OF CREEK/DITCH
- UTILITY POLE

PROPOSED

- EDGE OF TRAIL
- CONCRETE ROADSIDE BARRIER
- SAFETY RAIL
- RETAINING WALL
- TOE OF FILL
- CREST OF CUT
- CENTER OF CREEK/DITCH



EXISTING TREE



TREE 1m DIAMETER OR LARGER



CULVERT



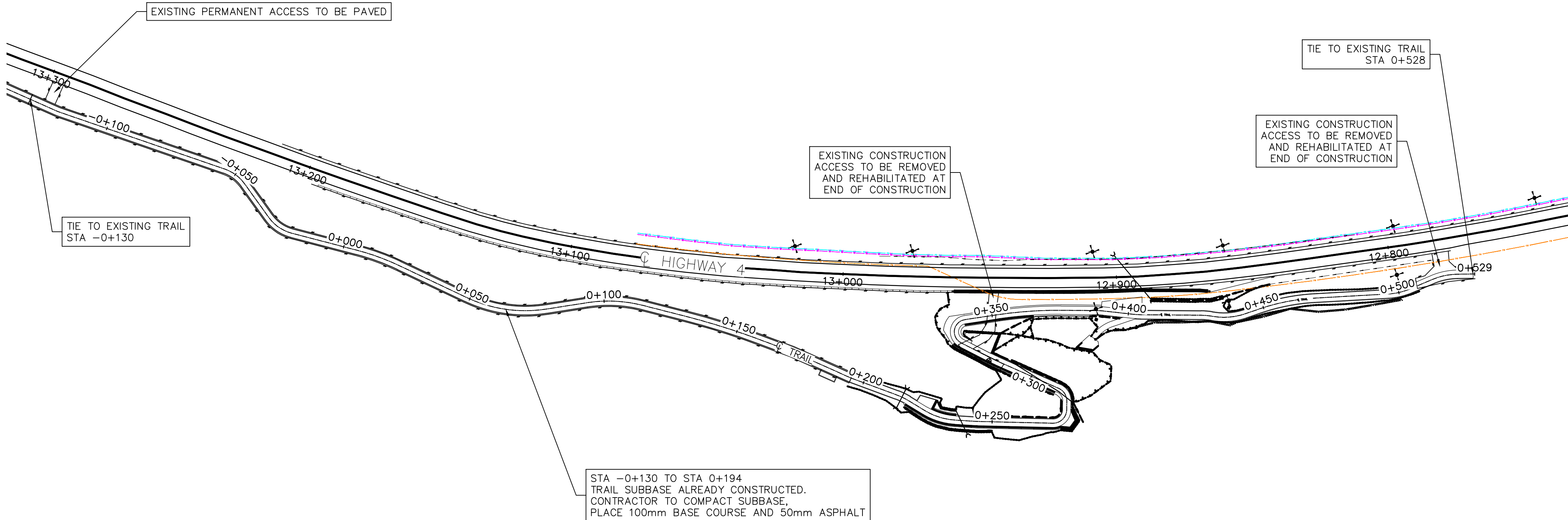
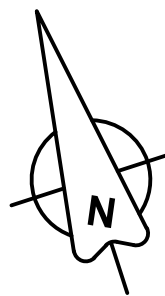
SANITARY LINE



WATER LINE



FIBER OPTIC



PLAN  
1:1000

NOTES:

- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
- THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
- UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
- ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
- POSTED HIGHWAY SPEED 80 km/hr.

PARSONS



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0	ISSUED FOR TENDER	21/02/18
Revision/ Revision	Description/Description	Date/Date

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ʔapsc̓iik ʔas̓ii (Ups-cheek ʔa-shee)
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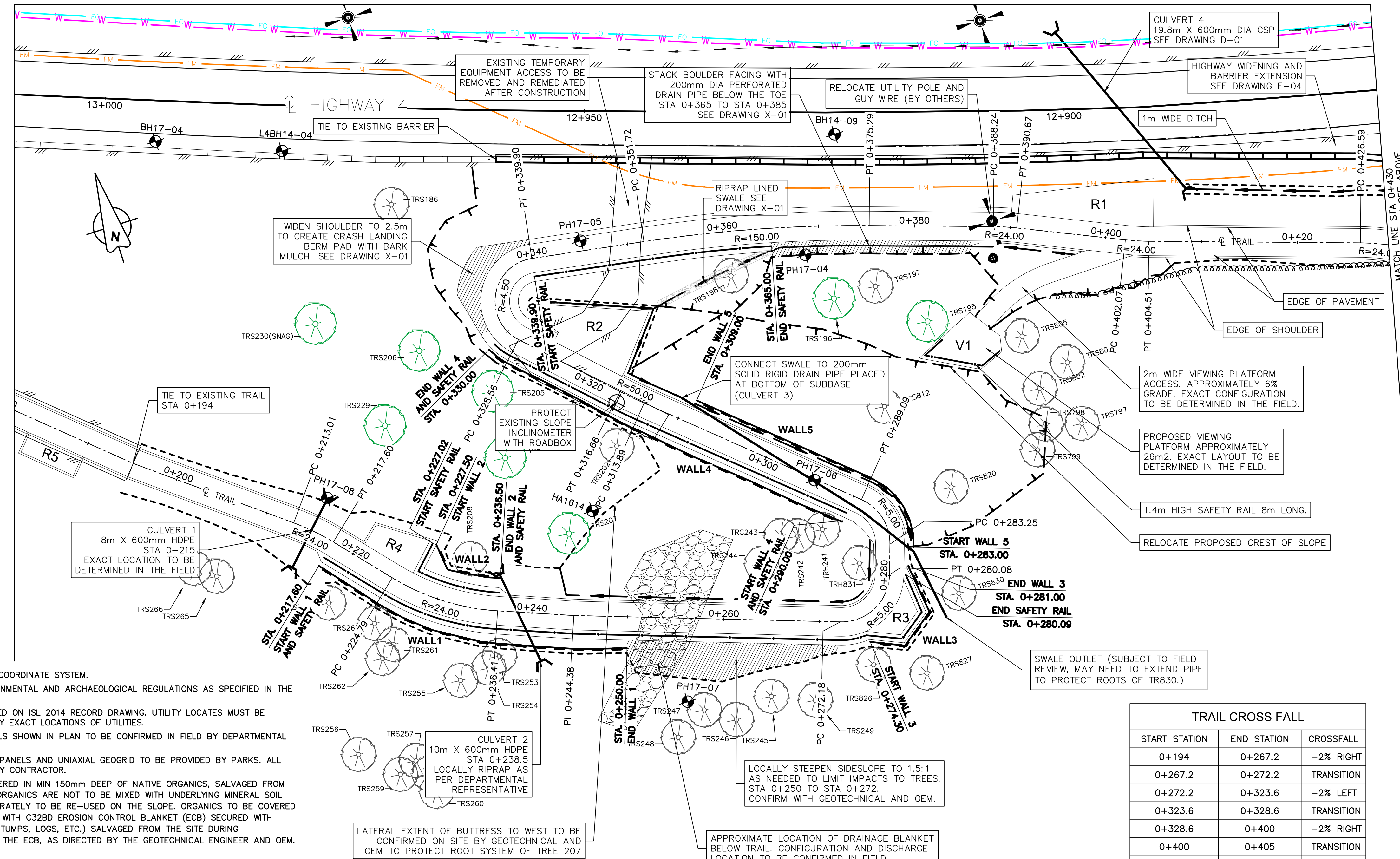
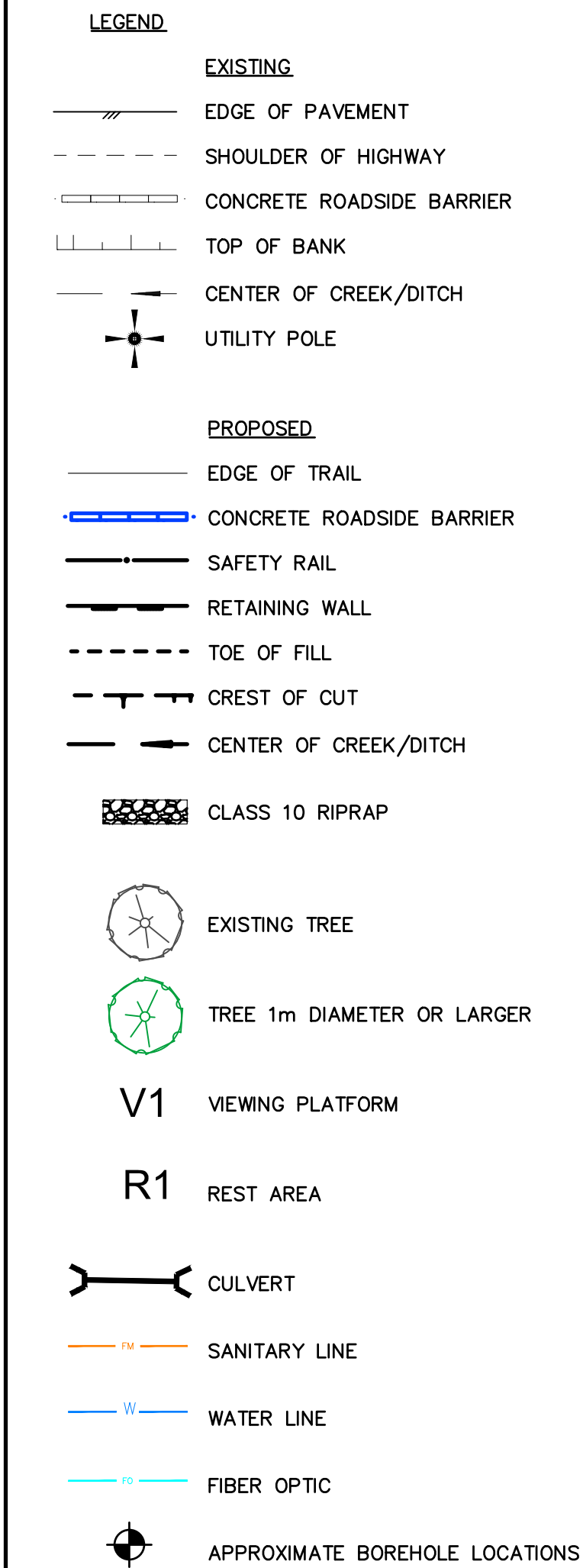
Consultant Signature Only
Designed by/Concept par ANDREW KWIATKOWSKI
Drawn by/Dessine par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	E-01 OF	0



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PLAN  
1:250

PARSONS

wsp

0	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
Client/client		

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

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**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**ᑭᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ**  
**(Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**

**TRAIL PLAN**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>E-02</b> OF	Revision no./La Révision no. <b>0</b>
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PARSONS



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**ᑭᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ**  
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Consultant Signature Only

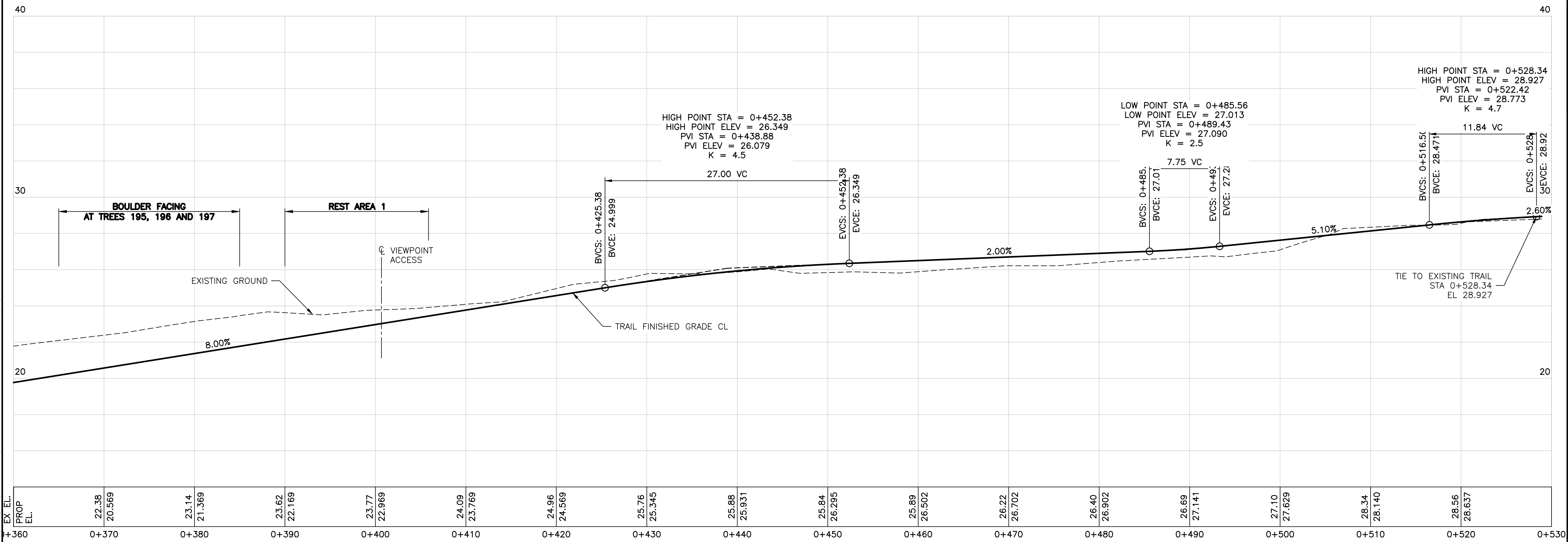
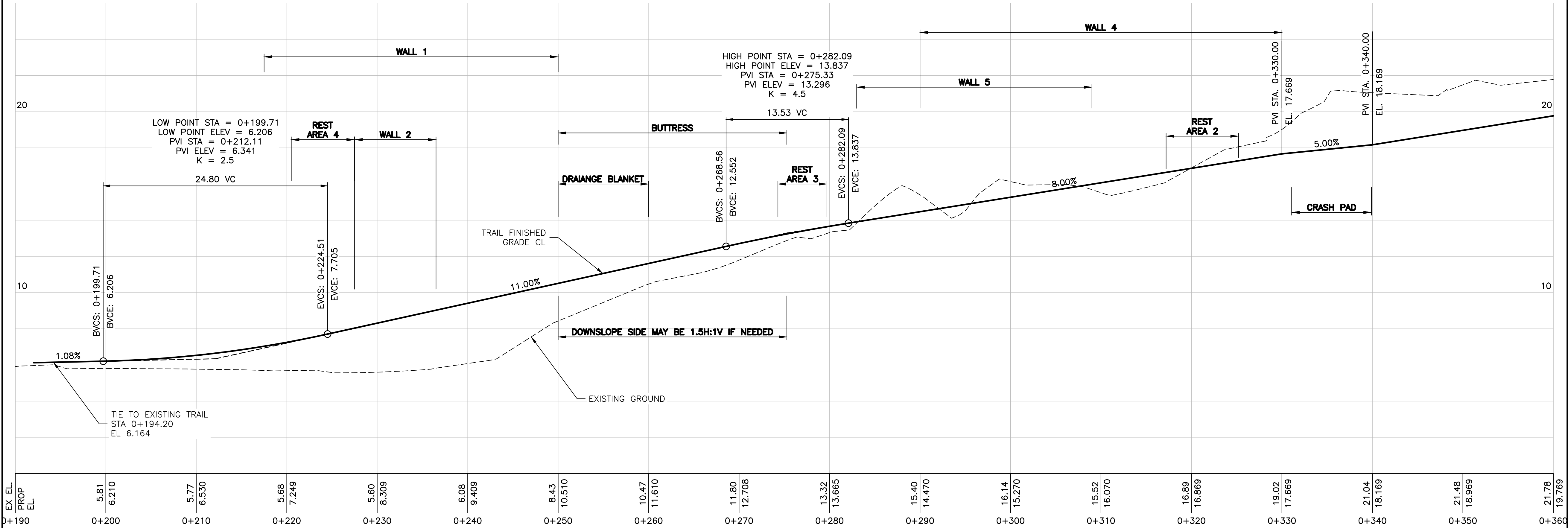
Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**TRAIL PROFILE**

Project No./No. du projet <b>PCA #1522</b>	Sheet/ Feuille <b>E-02</b> OF	Revision no./ La Révision no. <b>0</b>
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PROFILE  
1:250 HOR — 1:125 VER

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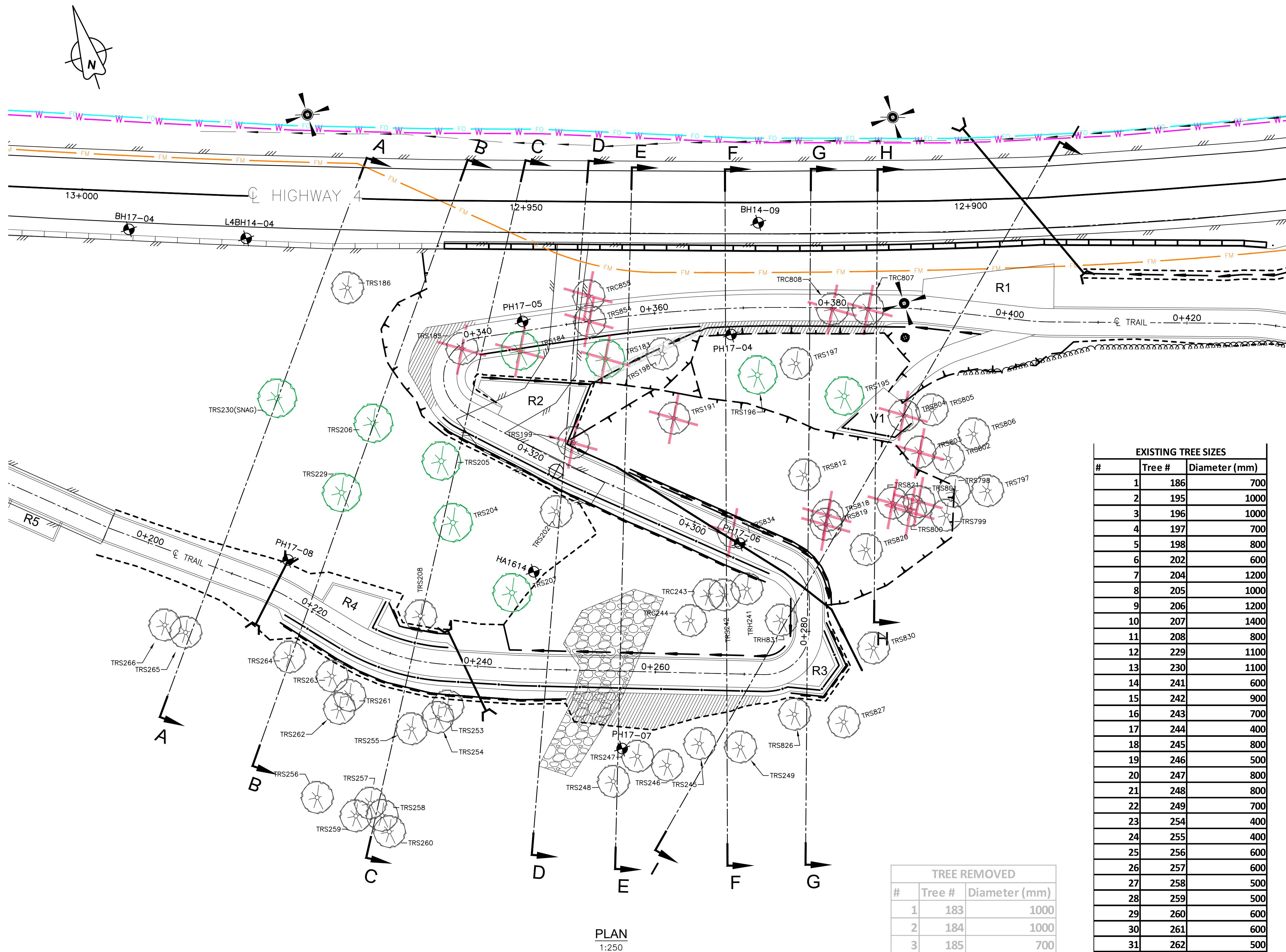


PARSONS

wsp

LEGEND

- EXISTING**
- EDGE OF PAVEMENT
  - SHOULDER OF HIGHWAY
  - CONCRETE ROADSIDE BARRIER
  - TOP OF BANK
  - CENTER OF CREEK/DITCH
  - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
  - CONCRETE ROADSIDE BARRIER
  - SAFETY RAIL
  - RETAINING WALL
  - TOE OF FILL
  - CREST OF CUT
  - CENTER OF CREEK/DITCH
- CLASS 10 RIPRAP
- TREE REMOVED DURING CLEARING
- EXISTING TREE
- TREE 1m DIAMETER OR LARGER
- V1 VIEWING PLATFORM
- R1 REST AREA
- CULVERT
- FM SANITARY LINE
- W WATER LINE
- FO FIBER OPTIC
- BOREHOLE



PLAN  
1:250

- NOTE:**
- TREE DIAMETERS ARE AN APPROXIMATION.
  - TREES NOTED AS HAVING BEEN REMOVED: STUMPS REMAIN AND WILL NEED TO BE REMOVED (EXCAVATED) AS PART OF THIS CONTRACT. EXPECT ZONE OF DISTURBANCE THAT WILL NEED TO BE REINSTATED. FOR STUMPS ON CUT SLOPES THAT ARE NEAR THE FINISHED SLOPE FACE CONFIRM WITH WSP PRIOR TO REMOVAL.
  - CONTRACTOR MUST EMPLOY METHODS THAT PROTECT MATURE TREES (>500mm) IN THE WORK AREA TO AVOID ADDITIONAL REMOVALS, OR DAMAGE TO LIMBS AND ROOT SYSTEMS.
  - TREES TO REMAIN: TRIMMING, CLIMBING OR ANY OTHER MODIFICATION TO EXISTING TREE REQUIRES WRITTEN APPROVAL FROM PARKS. TREES 1m DIAMETER OR LARGER ARE OFF LIMIT AND NOT TO BE MODIFIED.
  - TREES REQUIRING REMOVAL: IF, AFTER CONSULTATION WITH GEOTECHNICAL ENGINEER AND OEM, IT IS DETERMINED THAT A TREE MUST BE REMOVED TO FACILITATE CONSTRUCTION, THIS MAY BE ALLOWED AFTER ADVANCED NOTICE, BREEDING BIRD SURVEY AND WRITTEN APPROVAL FROM PARKS.
  - BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT - PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.

TREE REMOVED		
#	Tree #	Diameter (mm)
1	183	1000
2	184	1000
3	185	700
4	191	700
5	199	600
6	800	600
7	801	500
8	803	500
9	804	500
10	807	700
11	808	400
12	818	400
13	819	700
14	821	400
15	834	500
16	854	500
17	855	500

EXISTING TREE SIZES		
#	Tree #	Diameter (mm)
1	186	700
2	195	1000
3	196	1000
4	197	700
5	198	800
6	202	600
7	204	1200
8	205	1000
9	206	1200
10	207	1400
11	208	800
12	229	1100
13	230	1100
14	241	600
15	242	900
16	243	700
17	244	400
18	245	800
19	246	500
20	247	800
21	248	800
22	249	700
23	254	400
24	255	400
25	256	600
26	257	600
27	258	500
28	259	500
29	260	600
30	261	600
31	262	500
32	263	500
33	264	600
34	265	700
35	266	700
36	797	600
37	798	600
38	799	600
39	802	500
40	805	500
41	806	600
42	812	500
43	820	700
44	826	700
45	827	700
46	830	800
47	831	500

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Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑭᐱᓂᑦᑕᑦᑭ ᑭᐱᓂᑦ**  
**(Ups-cheek ta-shee)**  
**"Going in the right**  
**direction on the trail"**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**CLEARED TREE PLAN**

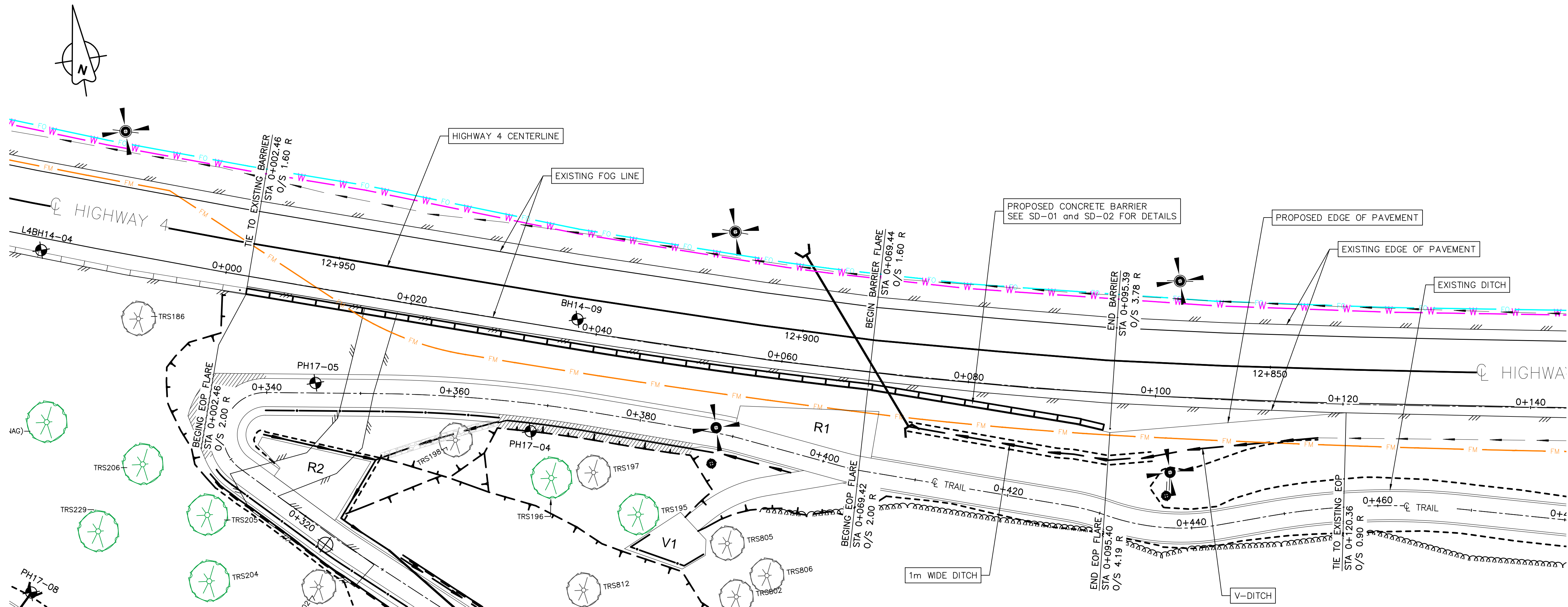
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PCA #1522	E-04 OF	0





PARSONS

wsp



PLAN  
1:250

LEGEND

EXISTING	PROPOSED
EDGE OF PAVEMENT	EDGE OF TRAIL
SHOULDER OF HIGHWAY	CONCRETE ROADSIDE BARRIER
CONCRETE ROADSIDE BARRIER	SAFETY RAIL
TOP OF BANK	RETAINING WALL
CENTER OF CREEK/DITCH	TOE OF FILL
UTILITY POLE	CREST OF CUT
	CENTER OF CREEK/DITCH
	CLASS 10 RIPRAP
EXISTING TREE	
TREE 1m DIAMETER OR LARGER	
V1 VIEWING PLATFORM	
R1 REST AREA	
CULVERT	
SANITARY LINE	
WATER LINE	
FIBER OPTIC	
APPROXIMATE BOREHOLE LOCATIONS	

NOTES:

1. SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
2. THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
3. UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
4. ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
5. POSTED HIGHWAY SPEED 80 km/hr.
6. BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT – PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.

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TOFINO	
PACIFIC RIM NATIONAL PARK RESERVE	
ʔapsciiik ʔasii	
(Ups-cheek ta-shee)	
"Going in the right direction on the trail"	

Consultant Signature Only	
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI	
Drawn by/Dessine par MICHAEL GIANG	
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS	

Drawing title/Titre du dessin	
WAYII AREA TRAIL DESIGN	
ROADSIDE BARRIER PLAN	

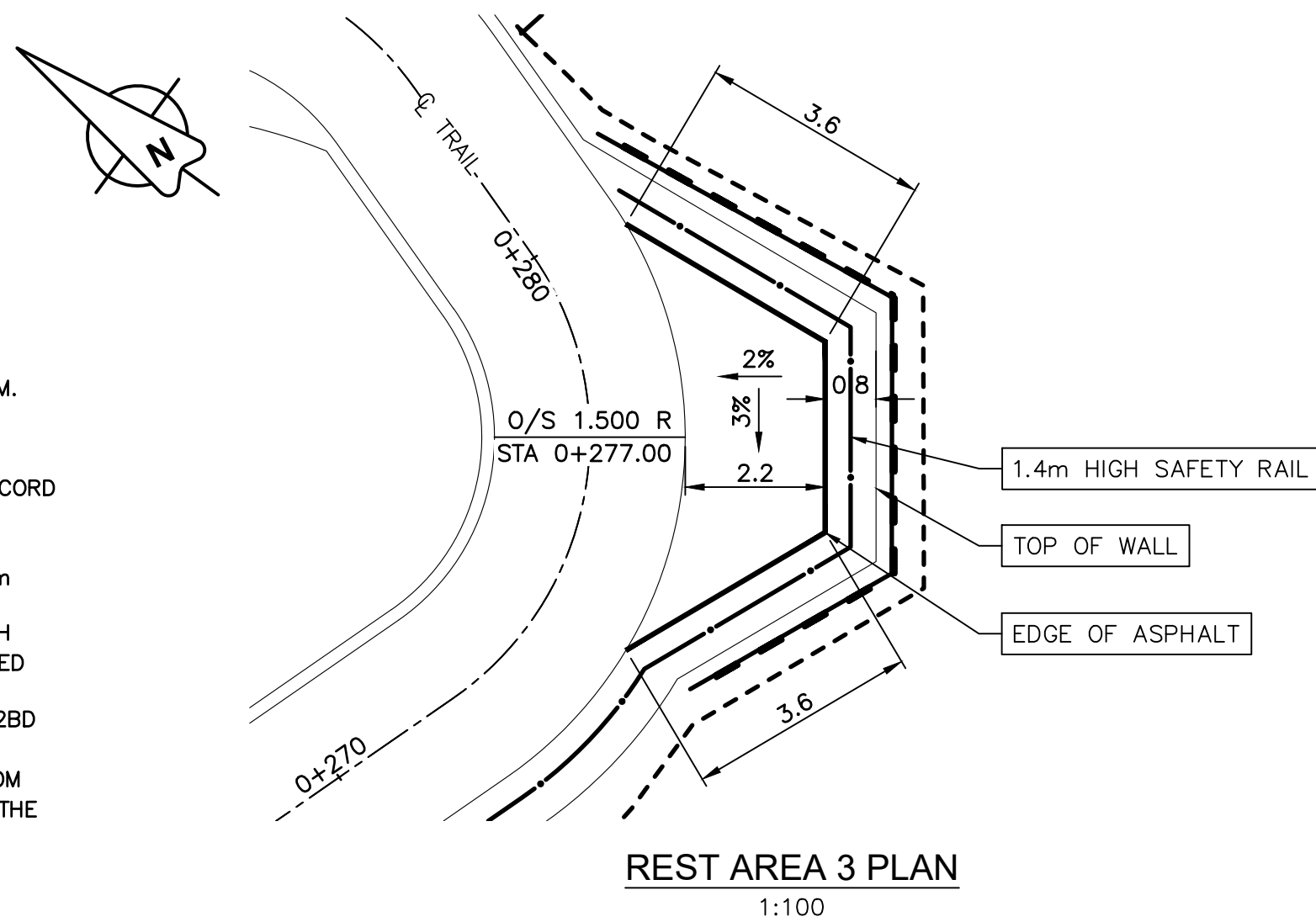
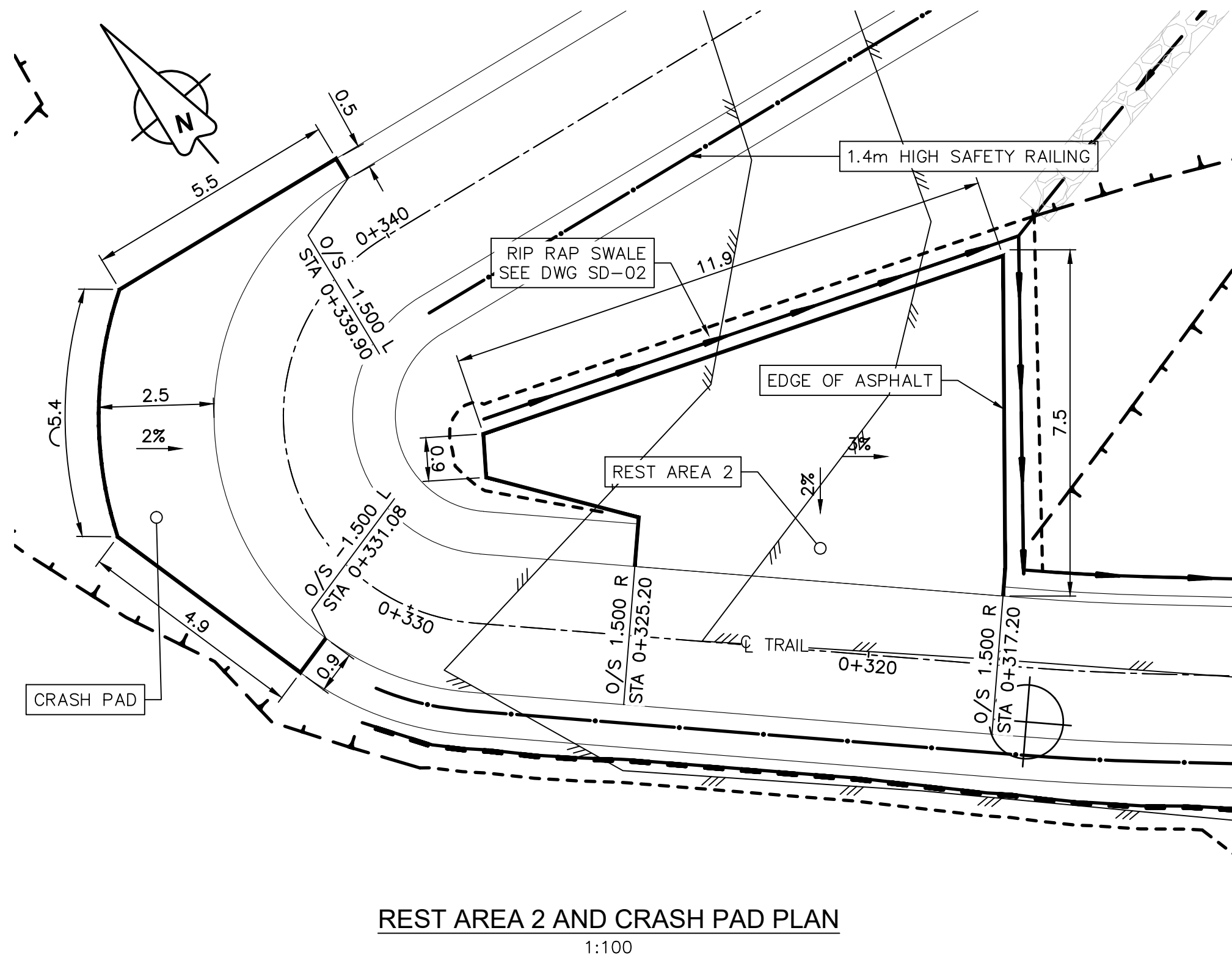
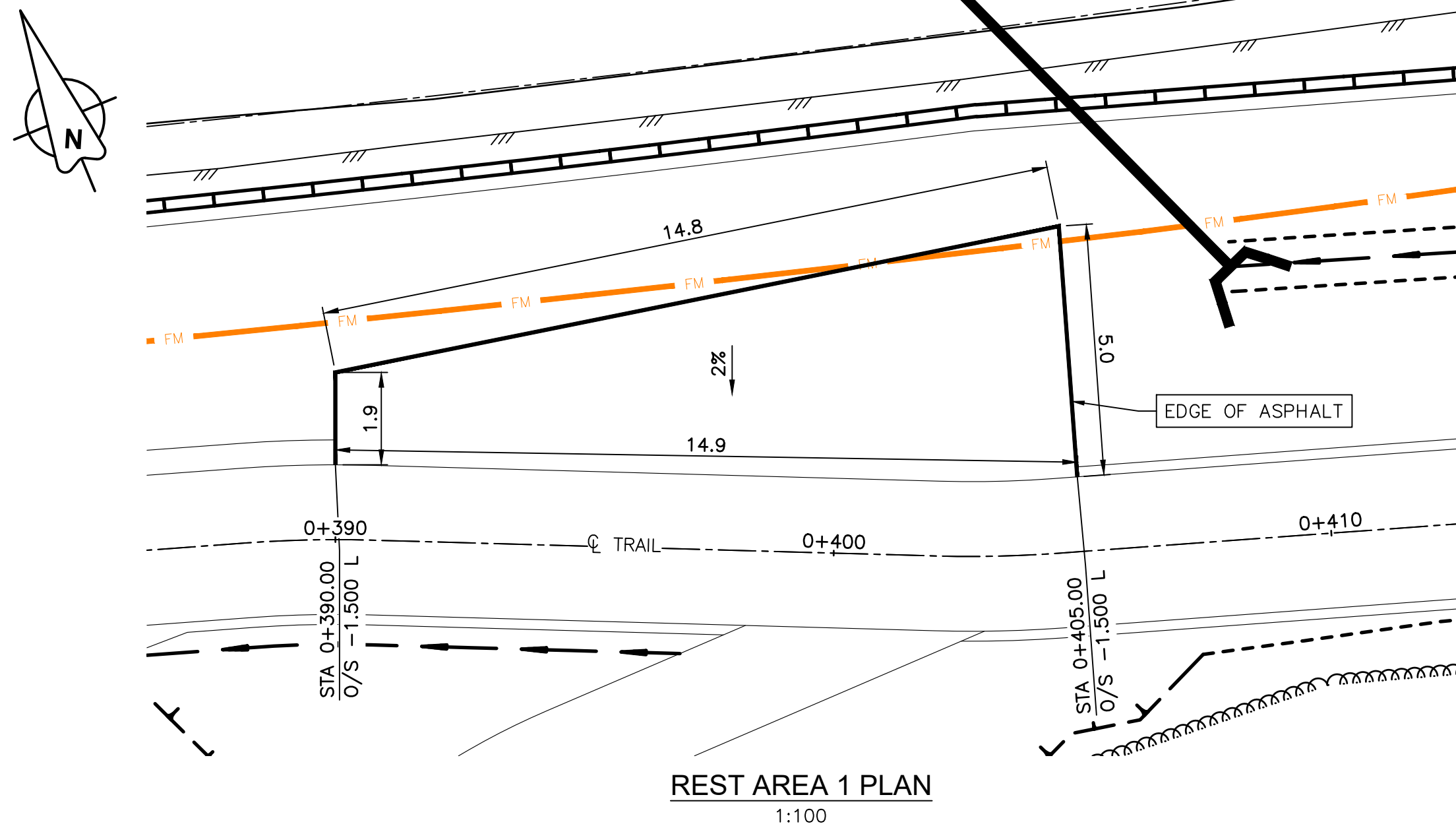
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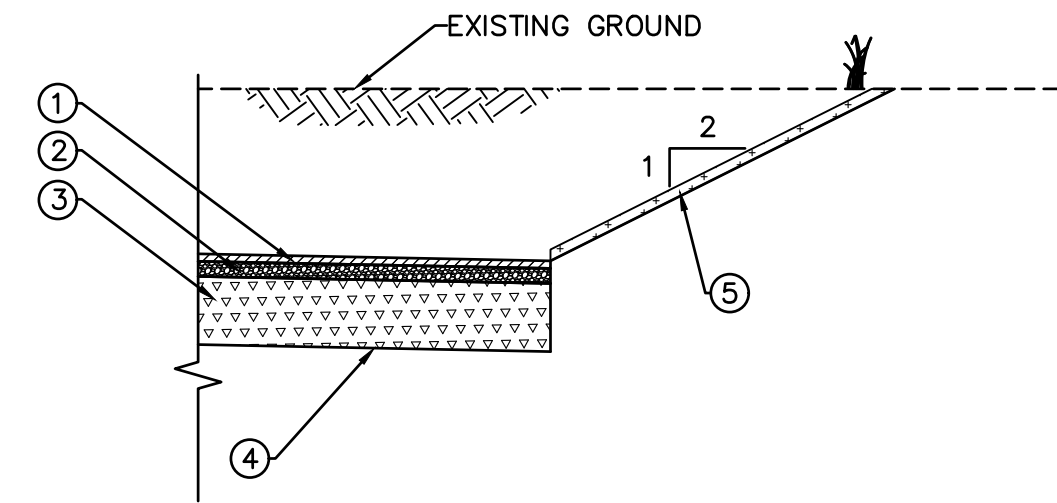


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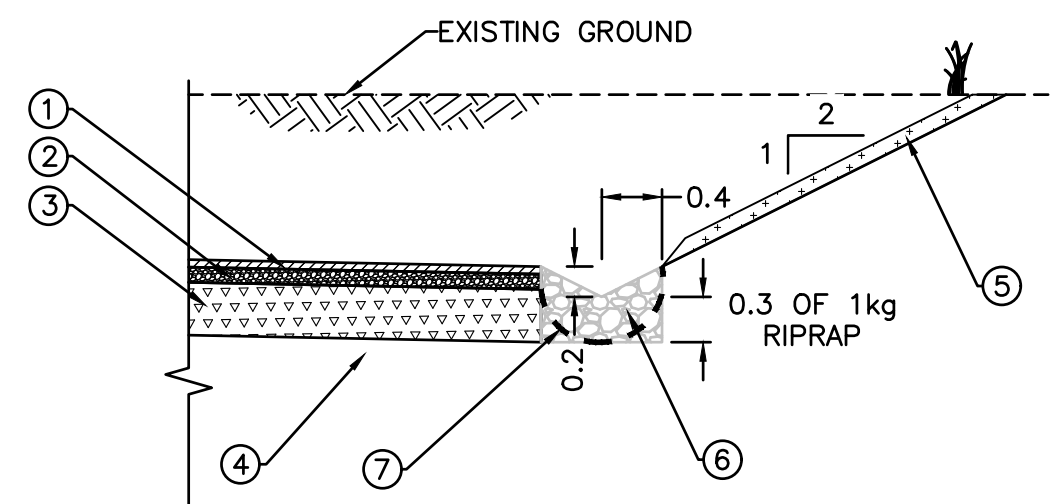
- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
  - SHOULDER OF HIGHWAY
  - CONCRETE ROADSIDE BARRIER
  - TOP OF BANK
  - CENTER OF CREEK/DITCH
  - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
  - CONCRETE ROADSIDE BARRIER
  - SAFETY RAIL
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  - CENTER OF CREEK/DITCH
  - CLASS 10 RIPRAP



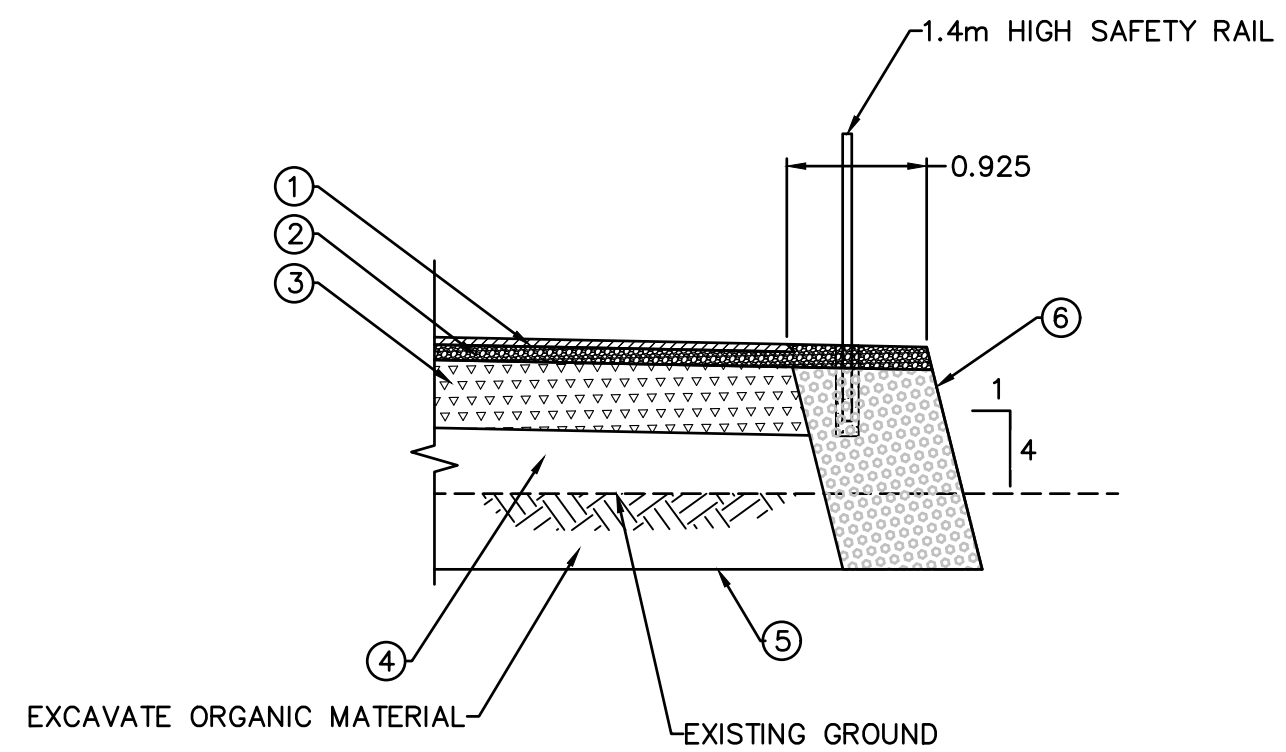
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  - POSTED HIGHWAY SPEED 80 km/hr.



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
  - 100mm - 19mm GRANULAR BASE
  - 450mm - 75mm PIT RUN
  - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
  - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS ACCEPTABLE.



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
  - 100mm - 19mm GRANULAR BASE
  - 450mm - 75mm PIT RUN
  - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
  - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
  - NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
  - CLASS 10kg RIPRAP



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
  - 100mm - 19mm GRANULAR BASE
  - 450mm - 75mm CRUSHED GRANULAR SUBBASE
  - APPROVED COMPACTED BACKFILL
  - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
  - ENVIROGRID WALL SEE WALL DRAWING WD-1 TO WD-4 FOR DETAILS.

**PARSONS**

**wsp**

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Revision/ Revision	Description/Description	Date/Date
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0	ISSUED FOR TENDER	21/02/18
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Client/client	
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Project title/Titre du projet	TOFINO
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PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᑦᑕᑦᑭ ᑭᐱᓂᑦᑕᑦᑭ (Ups-cheek ta-shee) “Going in the right direction on the trail”
--

Consultant Signature Only
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Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI
--

Drawn by/Dessiné par MICHAEL GIANG
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PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS
--

Drawing title/Titre du dessin
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WAYII AREA TRAIL DESIGN
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REST AREA LAYOUT 1
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Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
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PCA #1522	E-06	0
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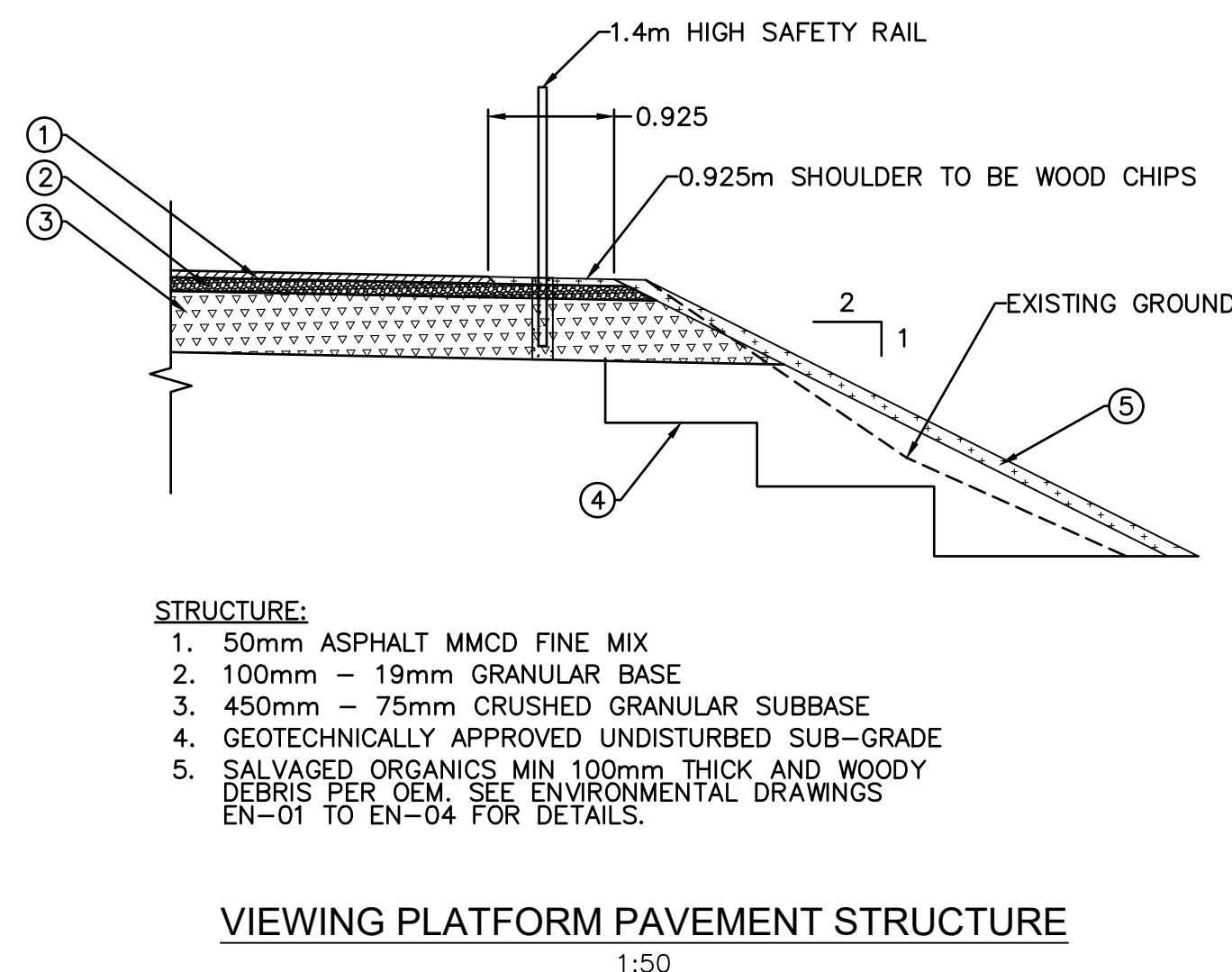
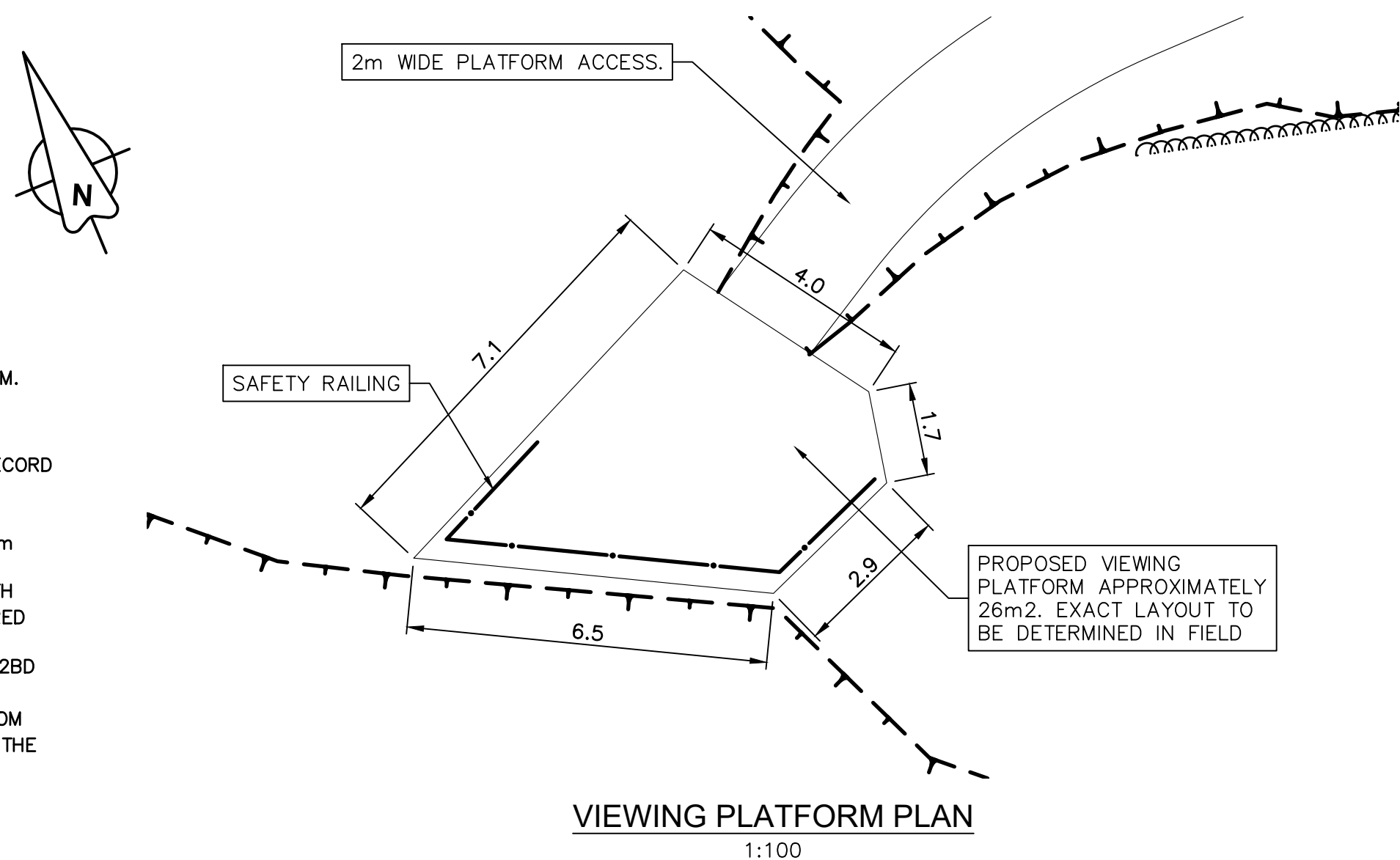
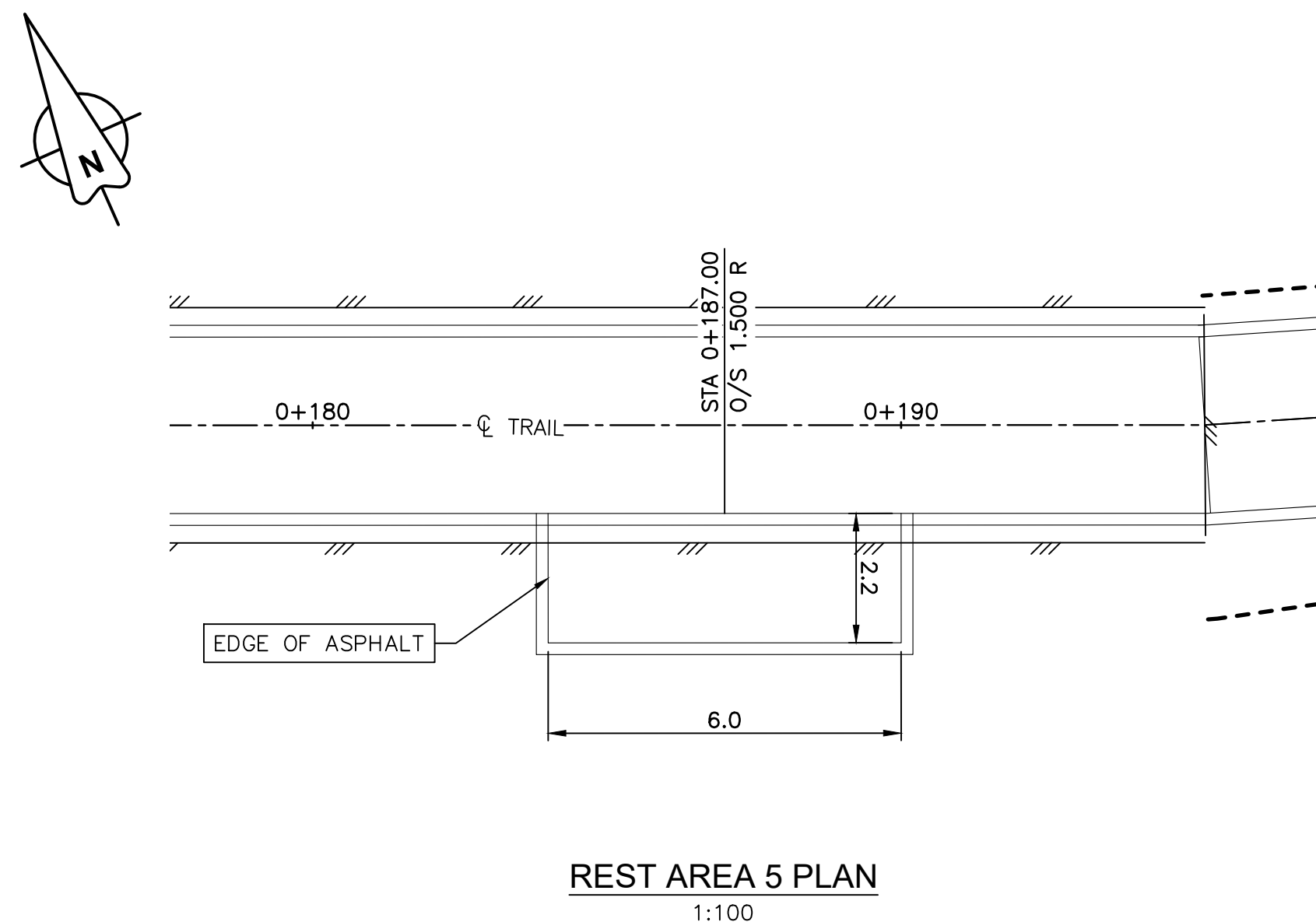
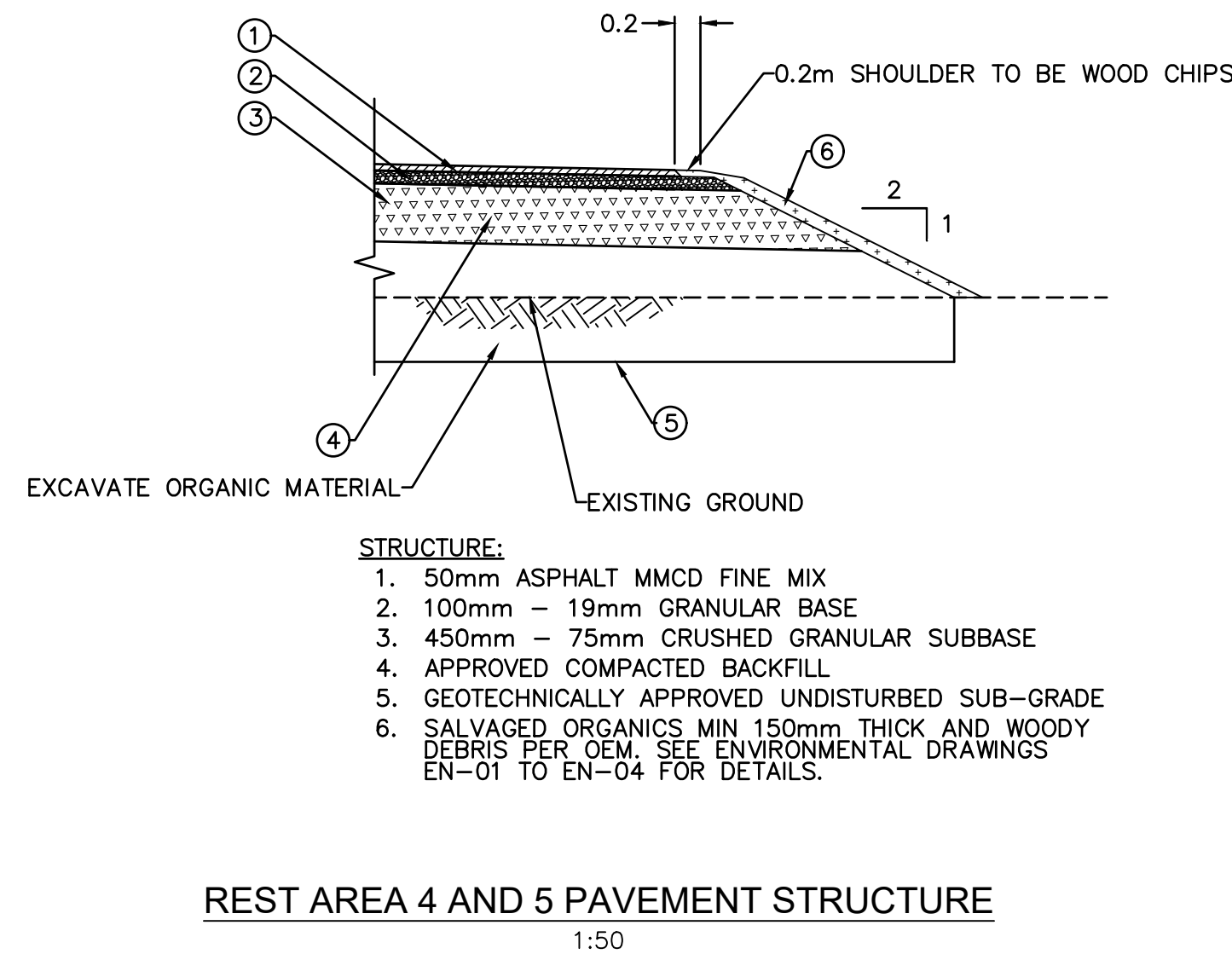
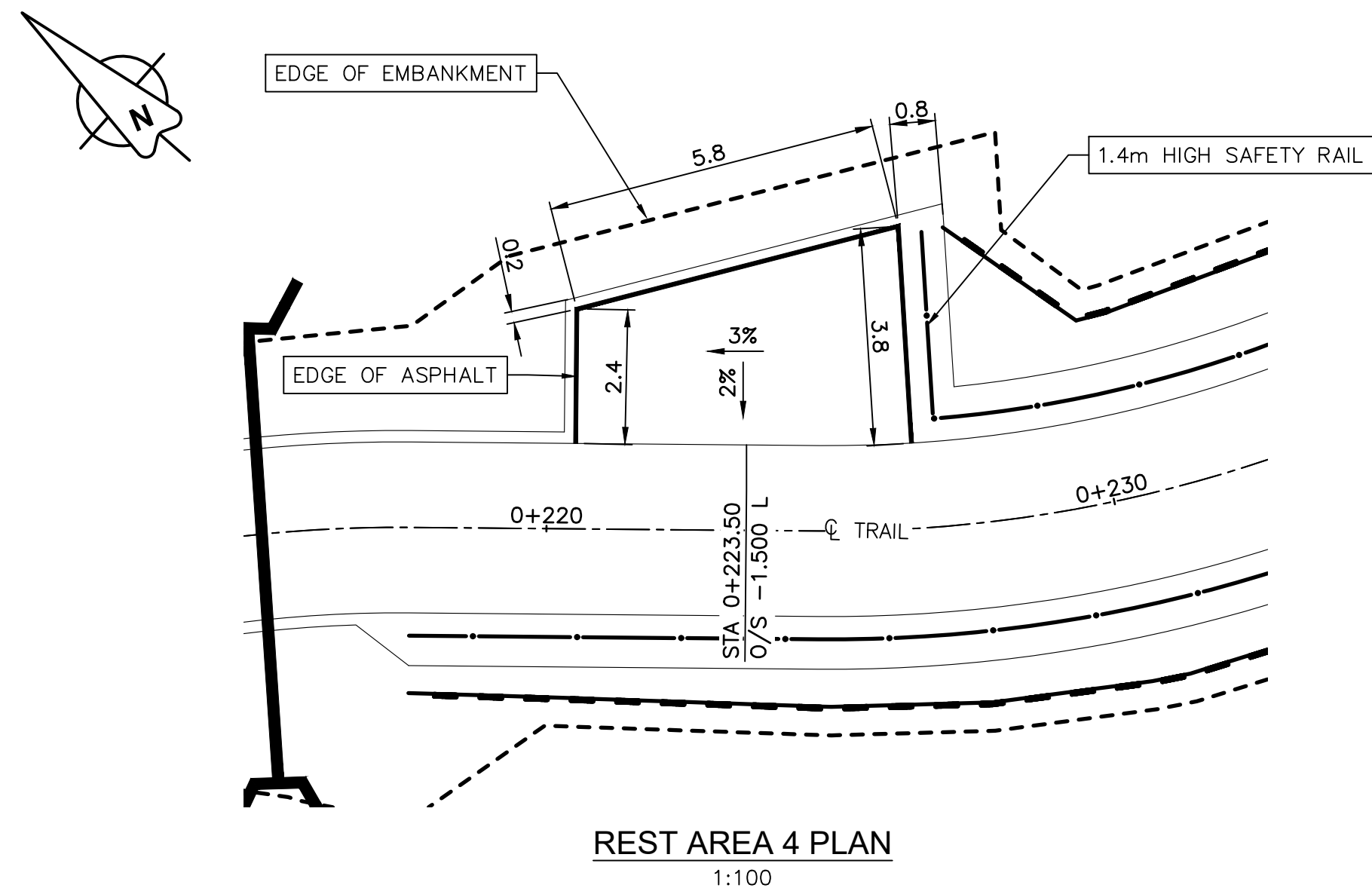
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- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
  - SHOULDER OF HIGHWAY
  - CONCRETE ROADSIDE BARRIER
  - TOP OF BANK
  - CENTER OF CREEK/DITCH
  - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
  - CONCRETE ROADSIDE BARRIER
  - SAFETY RAIL
  - RETAINING WALL
  - TOE OF FILL
  - CREST OF CUT
  - CENTER OF CREEK/DITCH
  - CLASS 10 RIPRAP



- NOTES:**
- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
  - THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
  - UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
  - ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
  - POSTED HIGHWAY SPEED 80 km/hr.

PARSONS

wsp

0	ISSUED FOR TENDER	21/02/18
1	ISSUED FOR TENDER	21/02/18
2	ISSUED FOR TENDER	21/02/18
3	ISSUED FOR TENDER	21/02/18
4	ISSUED FOR TENDER	21/02/18
5	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
Revision		

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ**  
**(Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**REST AREA LAYOUT 2**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>E-07</b> OF	Revision no./La Révision no. <b>0</b>
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PARSONS

wsp

Revision	0	ISSUED FOR TENDER	21/02/18
Revision		Description/Description	Date/Date

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

Project title/Titre du projet  
TOFINO  
PACIFIC RIM  
NATIONAL PARK RESERVE  
ʔapsc̓iik tašii  
(Ups-cheek ta-shee)  
"Going in the right  
direction on the trail"

Consultant Signature Only

Designed by/Concept par  
ANDREW KWIATKOWSKI

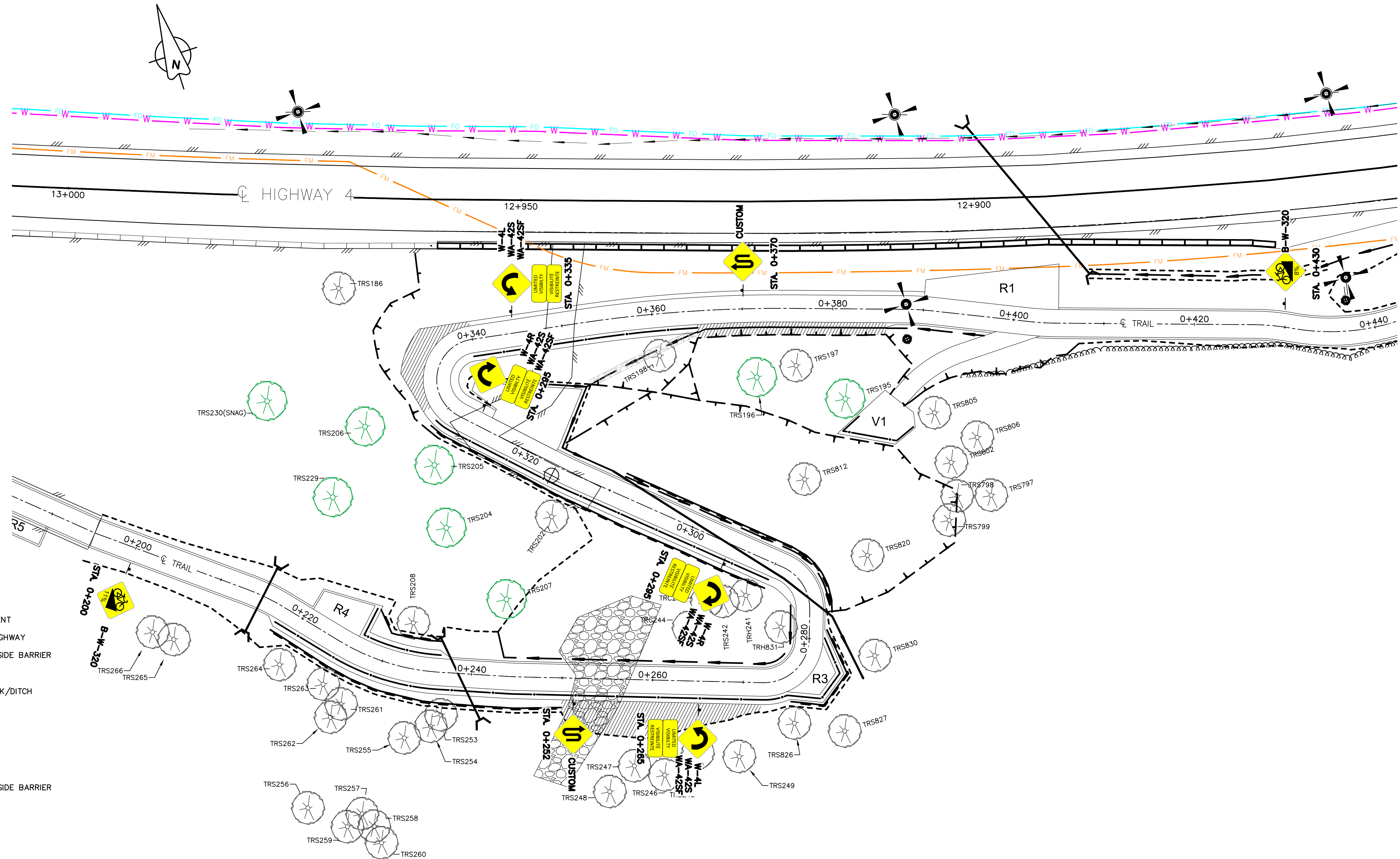
Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
WAYII AREA TRAIL DESIGN

SIGNAGE PLAN

Project No./No. du projet PCA #1522	Sheet/Feuille E-08 OF	Revision no./ La Révision no. 0
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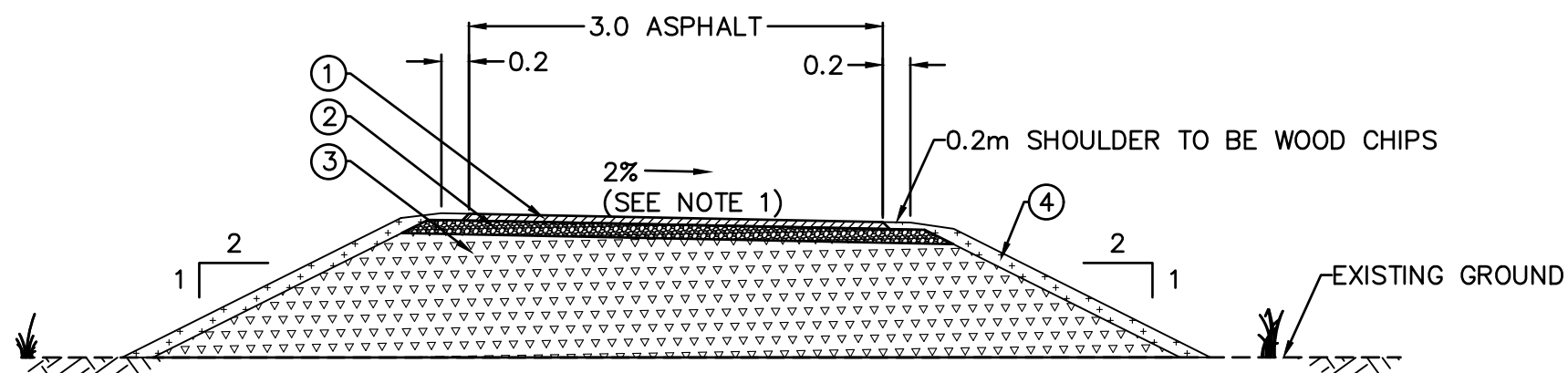
- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
  - SHOULDER OF HIGHWAY
  - CONCRETE ROADSIDE BARRIER
  - TOP OF BANK
  - CENTER OF CREEK/DITCH
  - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
  - CONCRETE ROADSIDE BARRIER
  - SAFETY RAIL
  - RETAINING WALL
  - TOE OF FILL
  - CREST OF CUT
  - CENTER OF CREEK/DITCH
  - CLASS 10 RIPRAP
- EXISTING TREE**
- TREE 1m DIAMETER OR LARGER
- V1** VIEWING PLATFORM
- R1** REST AREA
- CULVERT**
- SANITARY LINE**
- WATER LINE**
- FIBER OPTIC**
- APPROXIMATE BOREHOLE LOCATIONS**

- NOTES:**
- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
  - THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
  - UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
  - ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
  - POSTED HIGHWAY SPEED 80 km/hr.



PARSONS

wsp

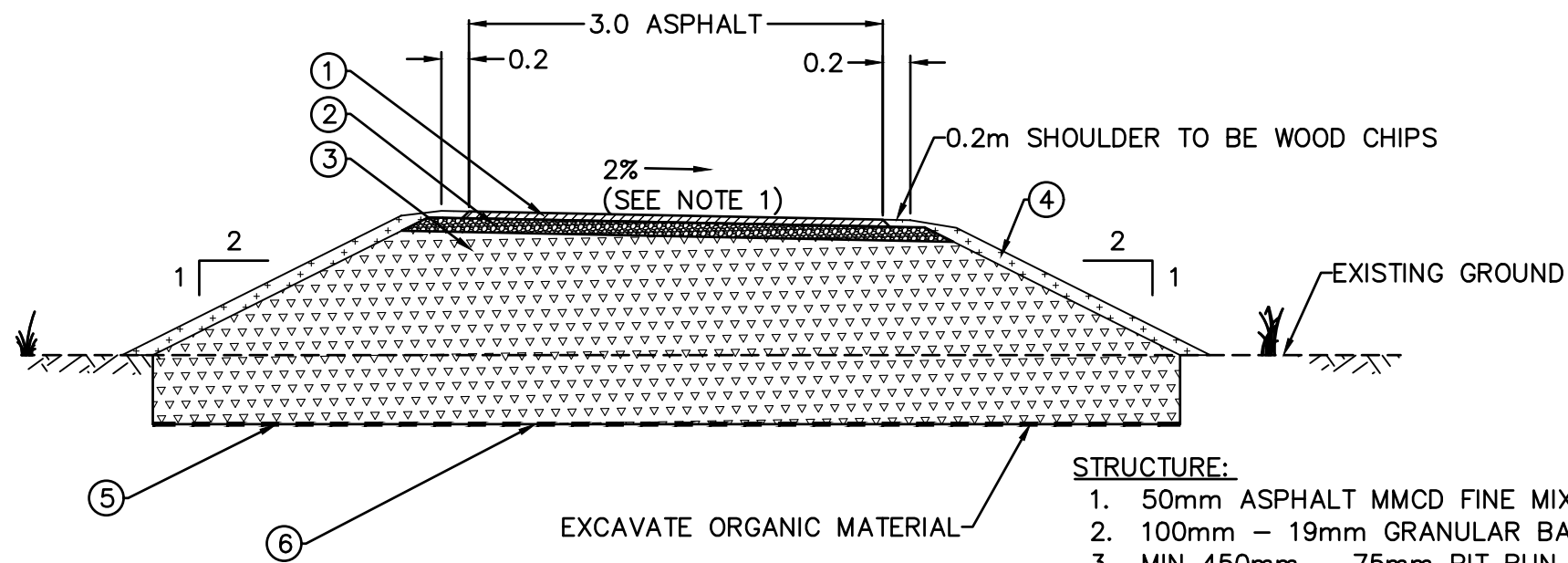


- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
  - 100mm – 19mm GRANULAR BASE
  - EXISTING SUBBASE
  - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE.

- NOTES:
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL PAVING SECTION  
1:50

STA -0+130 TO STA 0+195

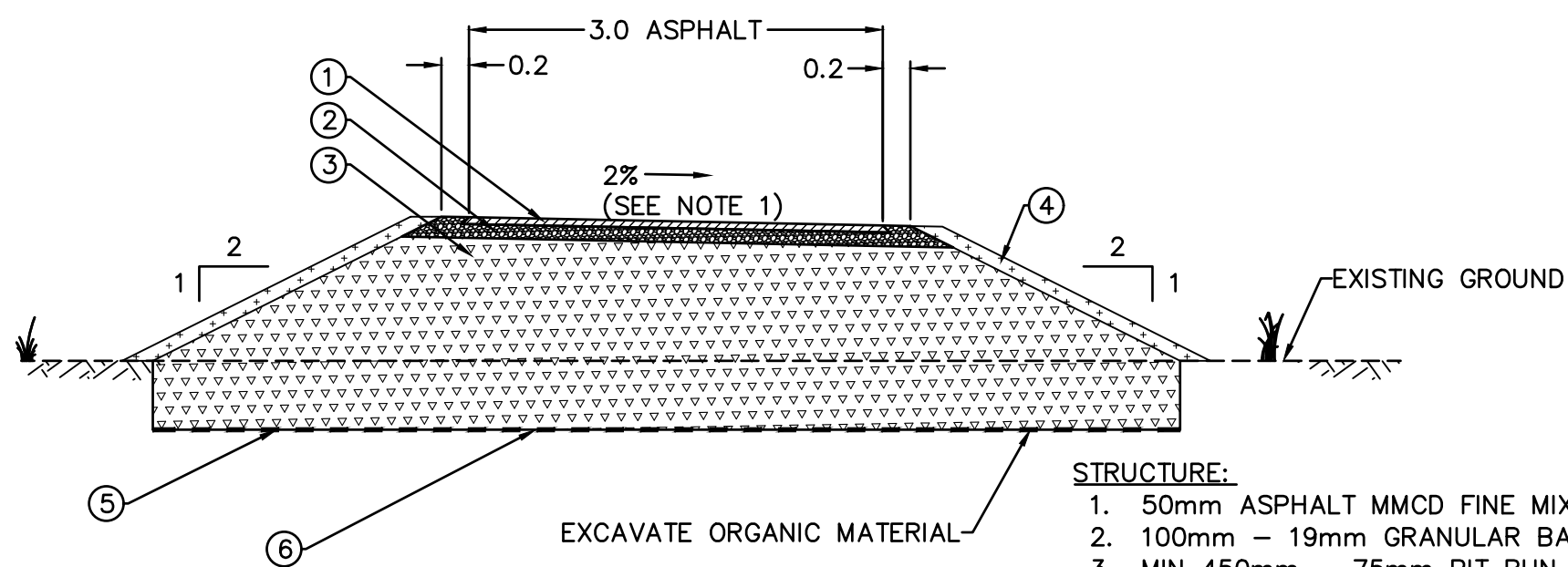


- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
  - 100mm – 19mm GRANULAR BASE
  - MIN 450mm – 75mm PIT RUN
  - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
  - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
  - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
  - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m

- NOTES:
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL FILL SECTION  
ORGANIC SHOULDER  
1:50

STA 0+195 TO STA 0+217.5  
STA 0+450 TO STA 0+528

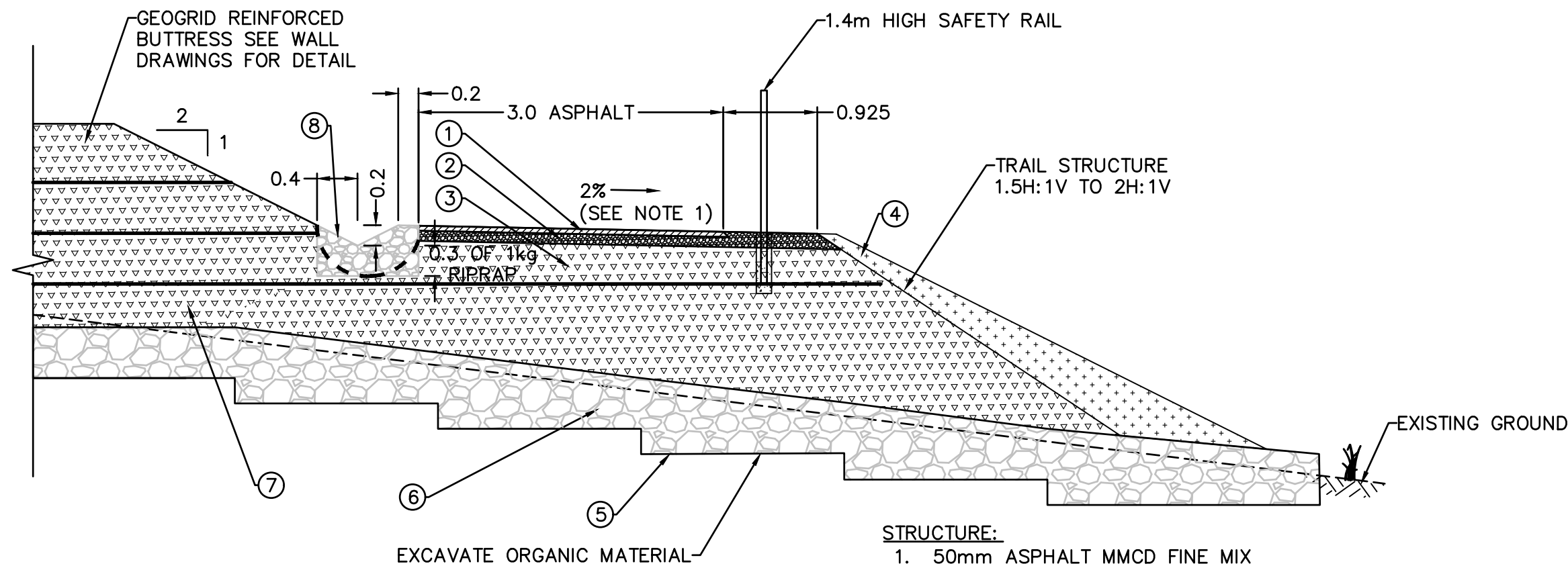


- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
  - 100mm – 19mm GRANULAR BASE
  - MIN 450mm – 75mm PIT RUN
  - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
  - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
  - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
  - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m

- NOTES:
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL FILL SECTION  
SLOPE/EMBANKMENT < 2m HIGH  
1:50

STA 0+410 TO STA 0+450

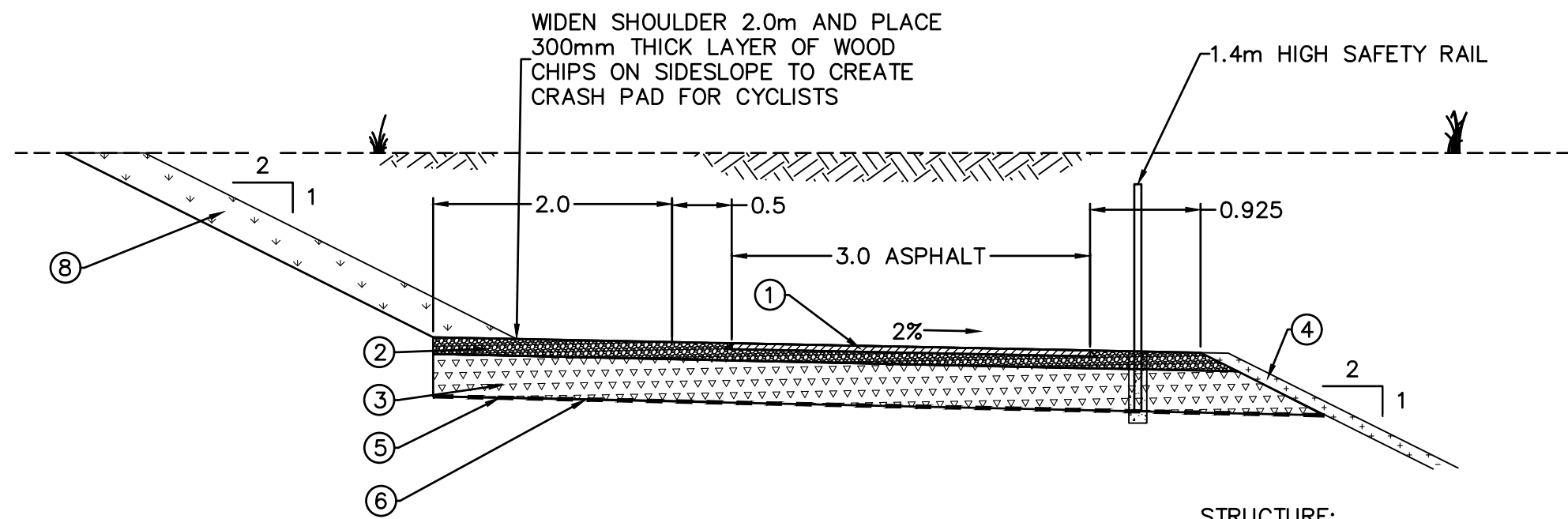


- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
  - 100mm – 19mm GRANULAR BASE
  - MIN 450mm – 75mm CRUSHED GRANULAR SUBBASE
  - SALVAGED ORGANICS AND WOOD DEBRIS PER OEM
  - IF ORGANICS SLOPE STEEPER THAN 2H:1V – LIMIT THICKNESS TO LESS THAN 200mm, SECURE WITH ECB AND LIMIT WOOD DEBRIS
  - IF ORGANICS SLOPE IS 2H:1V OR GENTLER – THICKNESS AND WOOD DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS IS GEOTECHNICALLY ACCEPTABLE
  - SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
  - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
  - LOCALLY TO INCLUDE DRAINAGE BLANKET
  - GEOGRID FROM BUTTRESS TO EXTEND BELOW TRAIL
  - CLASS 10kg RIPRAP

- NOTES:
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL FILL SECTION WITH BUTTRESS  
1:50

STA 0+250 TO STA 0+280



- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
  - 100mm – 19mm GRANULAR BASE
  - 300mm – 75mm PIT RUN
  - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS IS ACCEPTABLE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
  - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
  - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
  - NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
  - 300mm – WOOD CHIPS

TYPICAL TRAIL CUT SECTION WITH CRASH PAD  
1:50

STA 0+333 TO STA 0+340

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0	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
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Client/client

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ**  
**(Ups-cheek ta-shee)**  
**“Going in the right**  
**direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

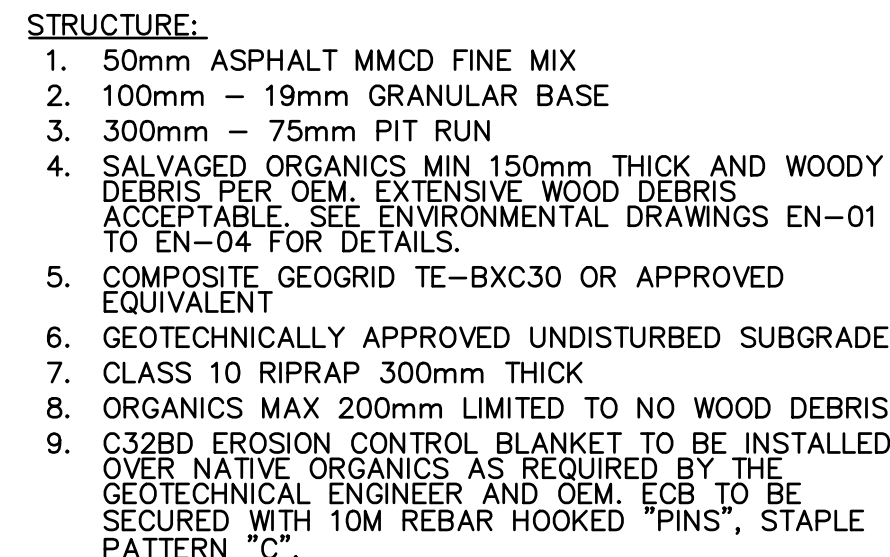
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**TYPICAL SECTIONS 1**

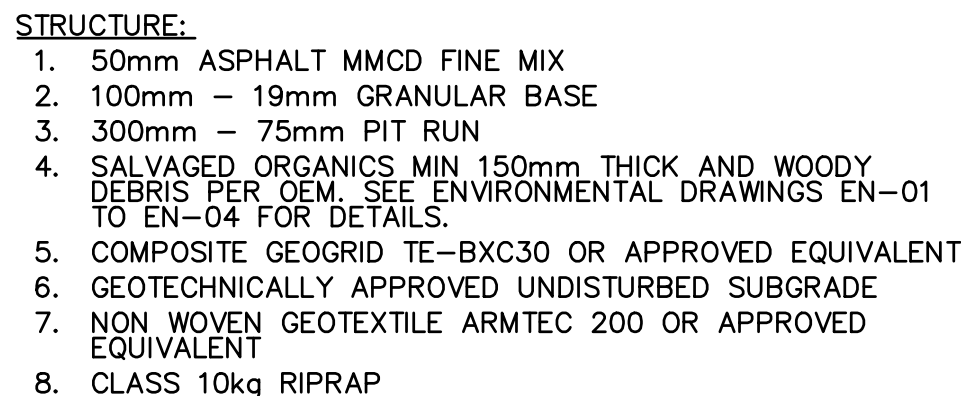
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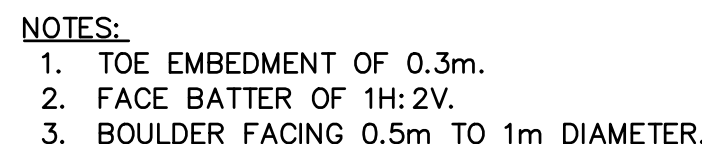




STA 0+340 TO STA 0+365



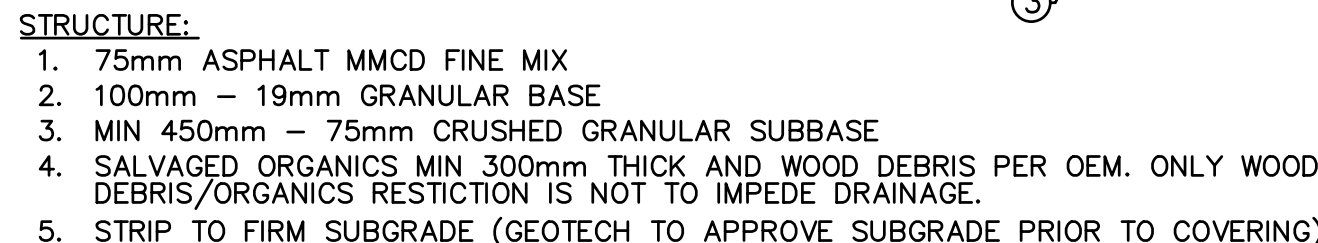
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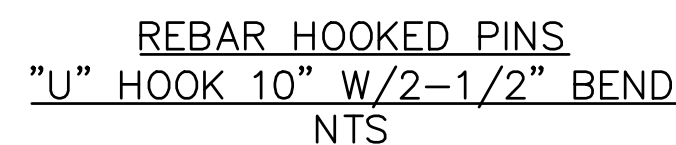
**STRUCTURE:**

1. 50mm ASPHALT MMCD FINE MIX
2. 100mm – 19mm GRANULAR BASE
3. 300mm – 75mm PIT RUN
4. SALVAGED ORGANICS MIN 150mm TO MAX 200mm THICK.  
5. SURVEILLANT ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
6. COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
7. GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
8. NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
9. CLASS 10kg RIPRAP
10. 25mm CLEAR CRUSH TO FILL VOIDS
11. C32B EROSION CONTROL BLANKET TO BE INSTALLED OVER NAME OR LOGO OF THE GEOTECHNICAL ENGINEER AND OEM. ECB TO BE SECURED WITH 10M REBAR HOOKED "PINS", STAPLE PATTERN "C".
12. LIMITED TO NO WOOD DEBRIS

STA 0+365 TO STA 0+385



STA 0+340 TO STA 0+450





\\cansp501\WAY\TA\03121 - PWGSC - S&A - 2018 - IN PACIFIC TRAIL\WAYS ESCAPEMENT\TA-03-24 CROSS SECTIONS\WDG PLOTTED ON 2021/02/17 8:41pm BY PWG2818E


**PARSONS**



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

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

Project title/Titre du projet

**TOFINO**

**PACIFIC RIM**

**NATIONAL PARK RESERVE**

**ᑕᐱᓂᑦᑕᑦᑕ ᑕᐱᓂᑦ**

**(Ups-cheek ta-shee)**

**“Going in the right  
direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

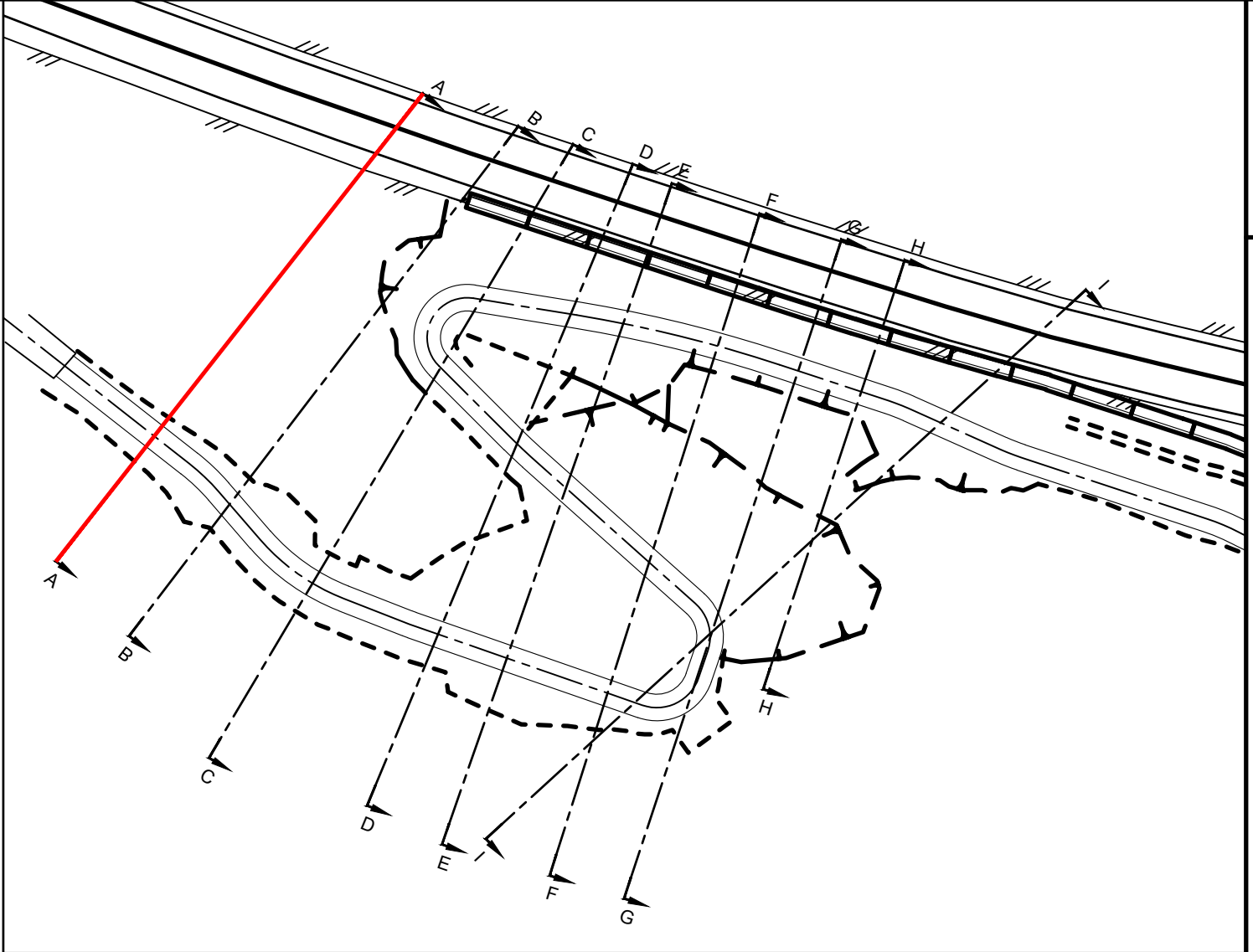
Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

**SLOPE SECTION A**

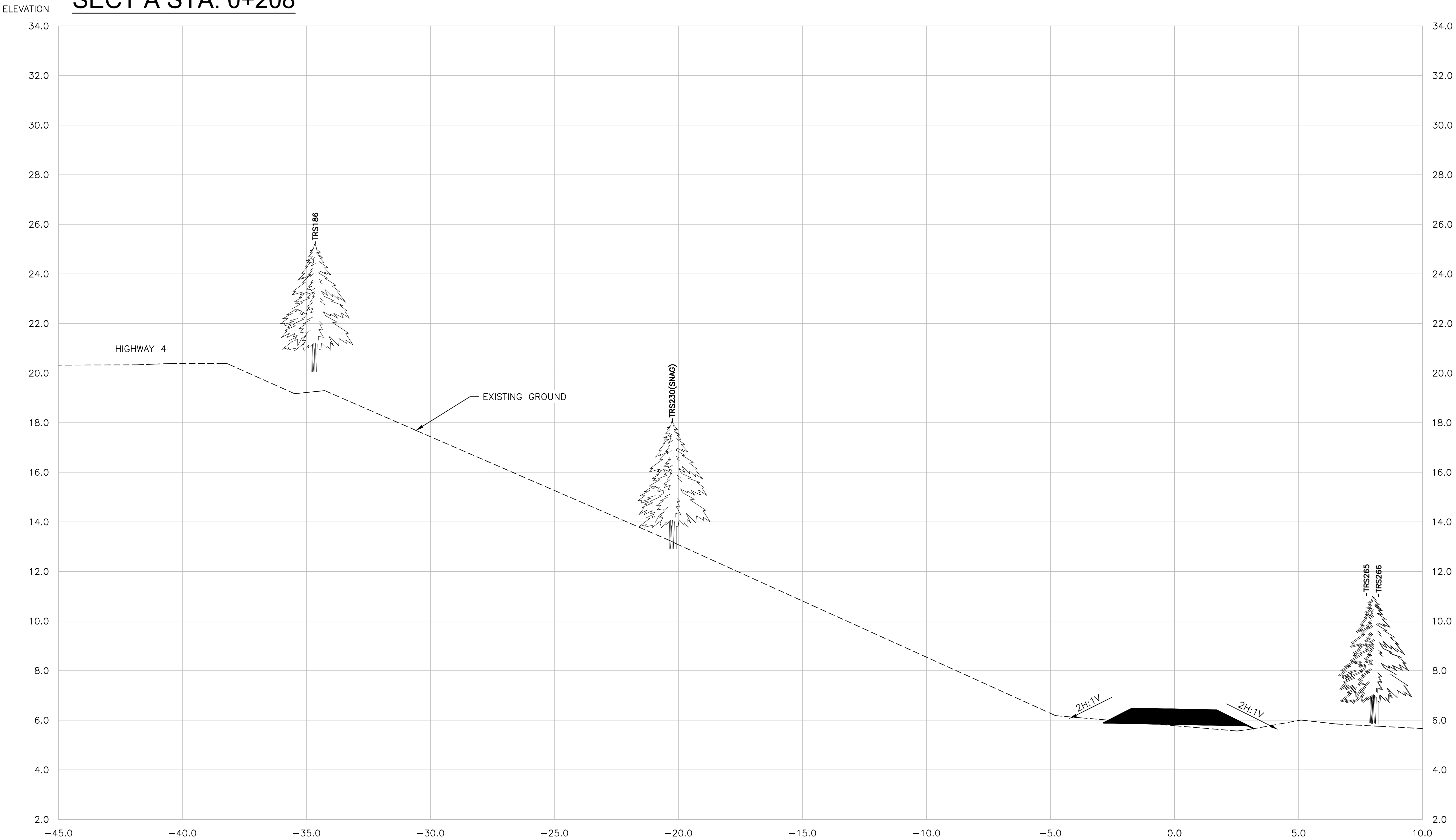
**STA 0+208**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	<b>X-03</b> OF	<b>0</b>



**KEY PLAN**  
NTS

**SECT A STA: 0+208**

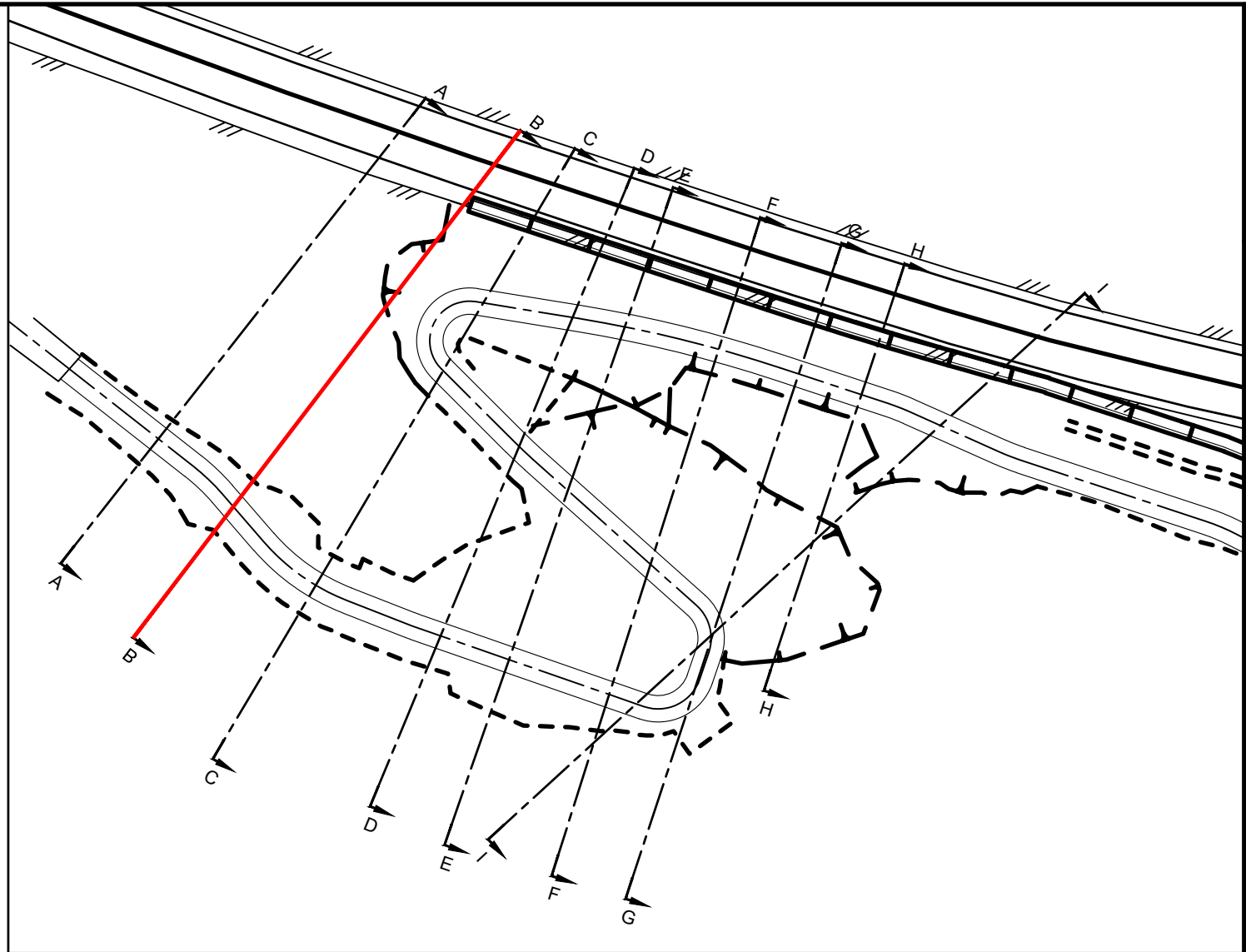
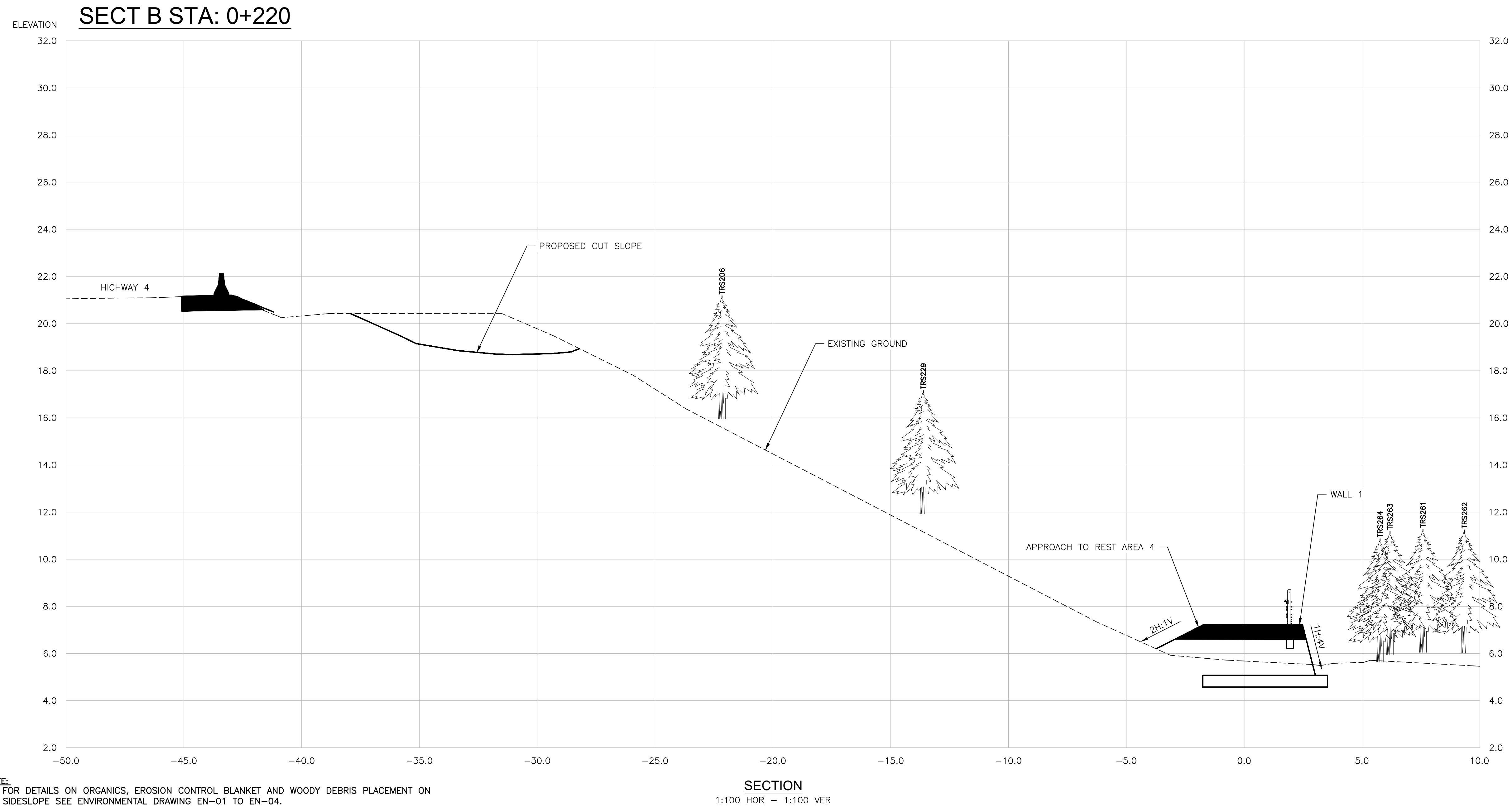


**NOTE:**  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON  
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

**SECTION**  
1:100 HOR — 1:100 VER



\\casars0301\WAYII\A\03121 - PWGSC - SDA 2018 - IN PACIFIC TRAILWAYS ESCARPMENT VTS ESCARPMENT - 03-04 CROSS SECTIONS.WMG PLOTTED ON 2021/02/17 8:41pm BY P052618E




KEY PLAN  
NTS

PARSONS



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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᑭᑦ ᑭᐱᓂᑭ (Ups-cheek ta-shee) “Going in the right direction on the trail”

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SLOPE SECTION B STA 0+220

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	X-04 OF	0



PARSONS



Revision/		
Revision/		
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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ʔapsc̓iik ʔasii (Ups-cheek ta-shee) “Going in the right direction on the trail”
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Consultant Signature Only

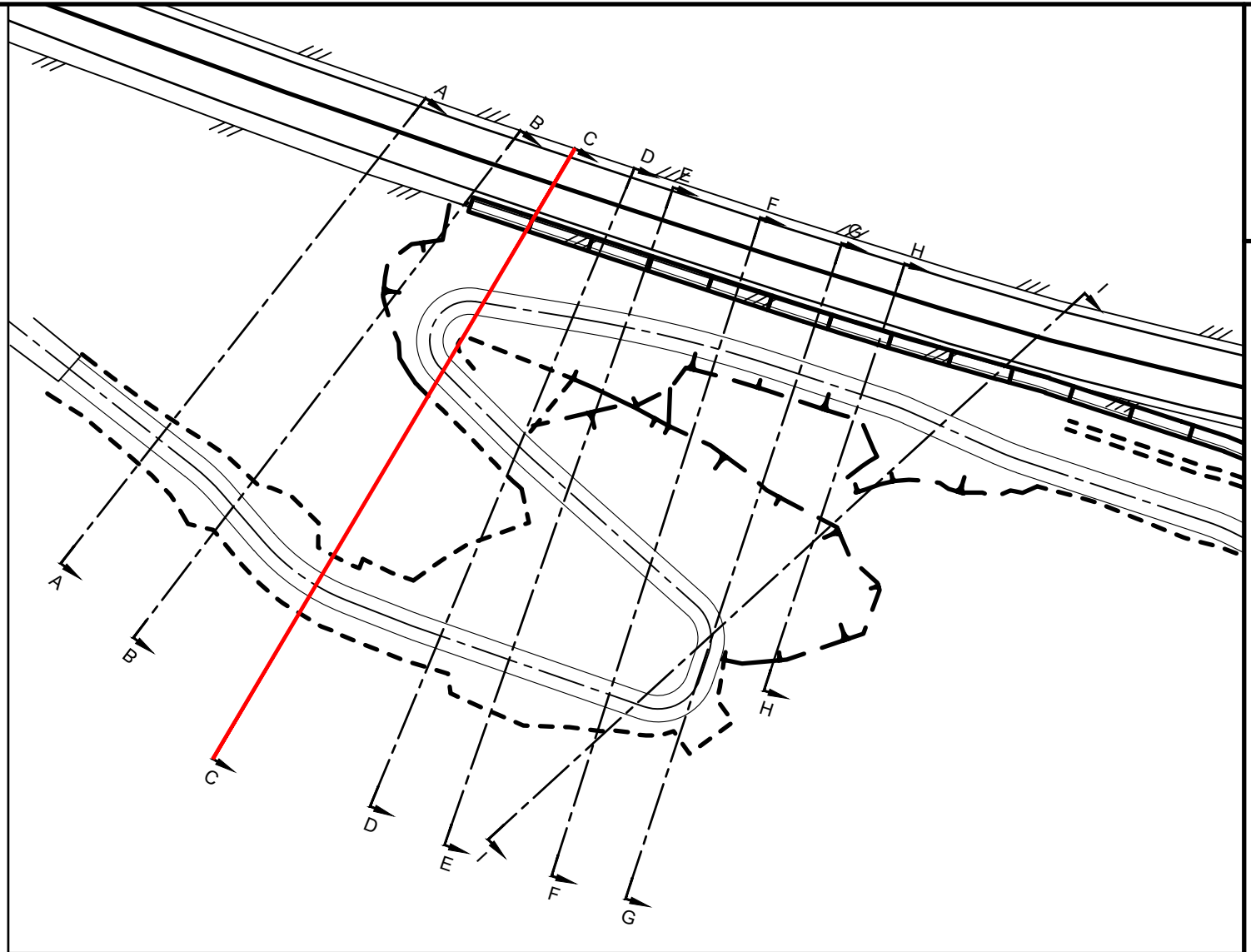
Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN  SLOPE SECTION C STA 0+232
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Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-05 OF	0



KEY PLAN  
NTS

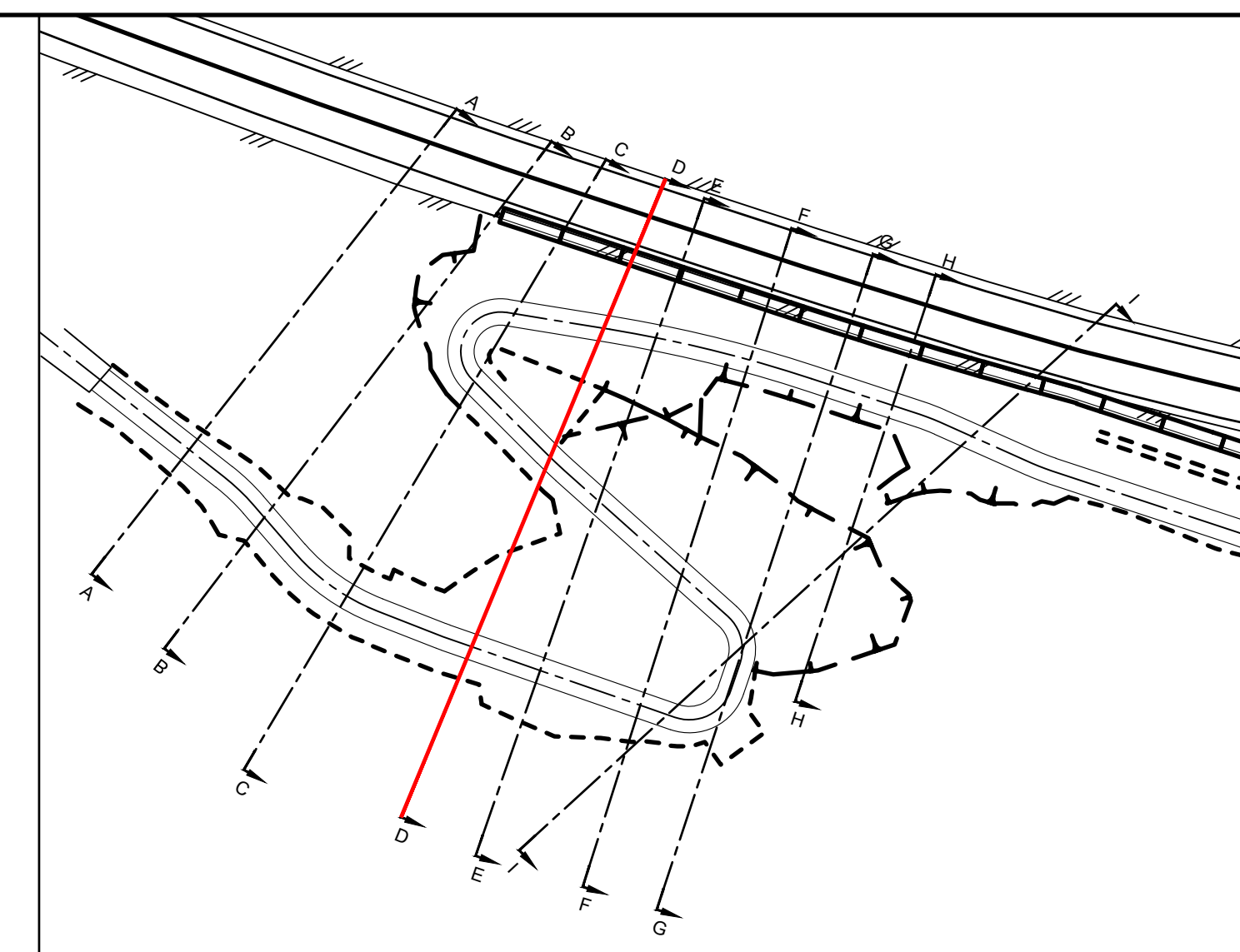


NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

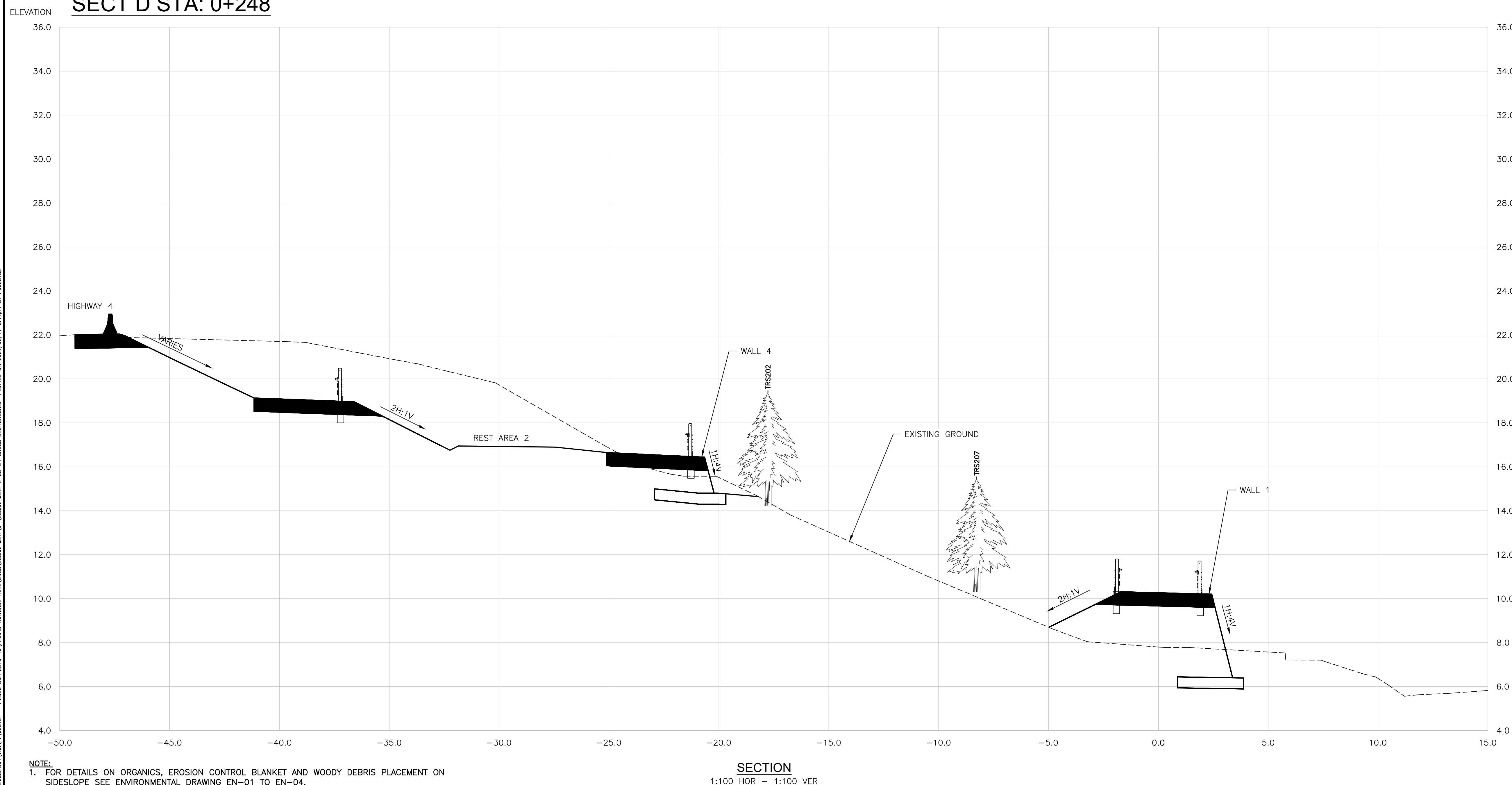





**PARSONS**

KEY PLAN  
NTS

## SECT D STA: 0+248



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0	ISSUED FOR TENDER	21/02/18
<b>Revision/ Serial</b>	<b>Description/Description</b>	<b>Date/Date</b>

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

Project title/Titre du projet

TOFINO

PACIFIC RIM  
NATIONAL PARK RESERVE

ʔapsc̓iik ʔasii  
(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”

Consultant Signature Only	
---------------------------	--

	Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI
--	--

<p>Drawn by/Dessine par MICHAEL GIANG</p>
<p>PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS</p>

\_\_\_\_\_

Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

**SLOPE SECTION D**

**STA 0+248**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-06	0



PARSONS



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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ (Ups-cheek ta-shee) “Going in the right direction on the trail”
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Consultant Signature Only

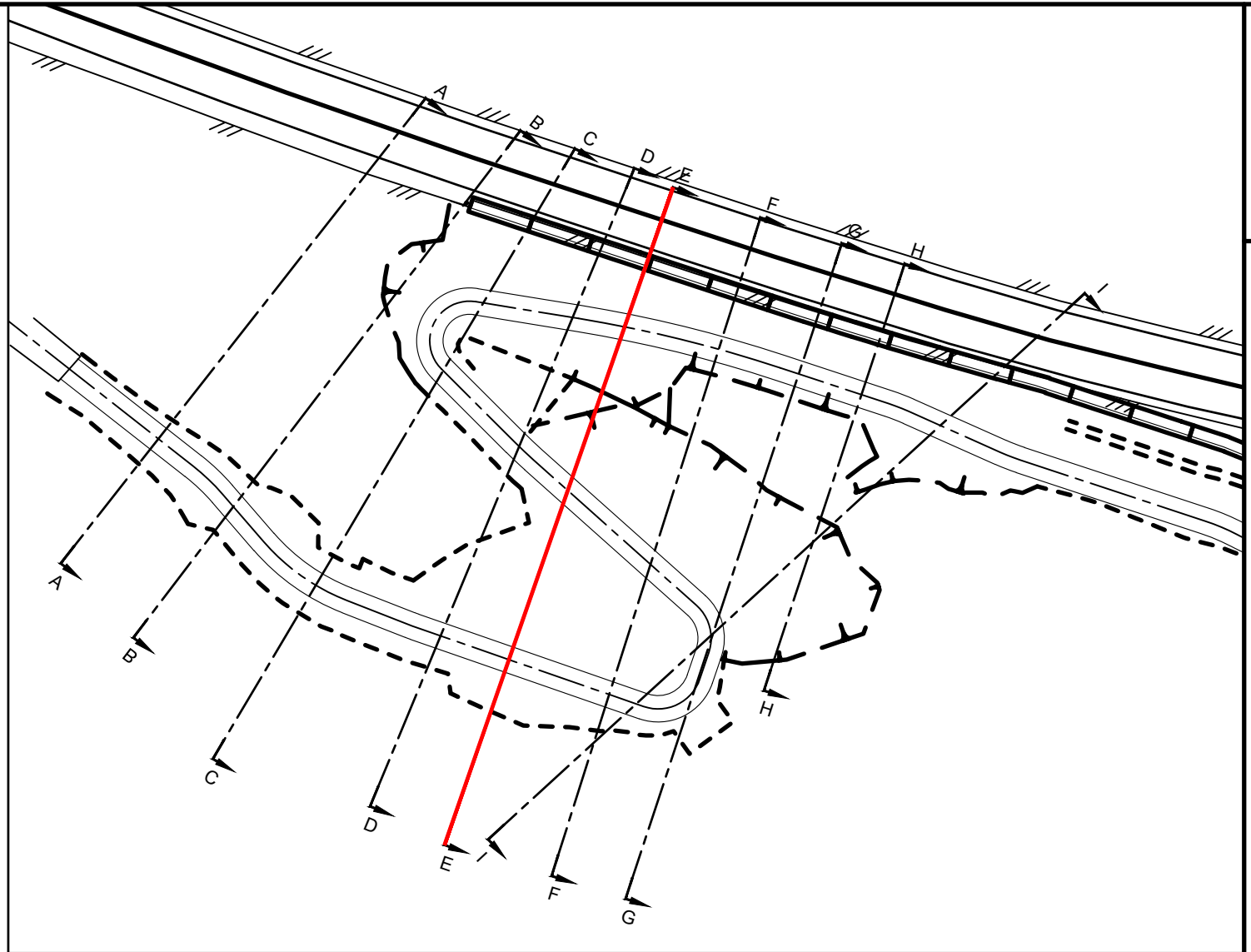
Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

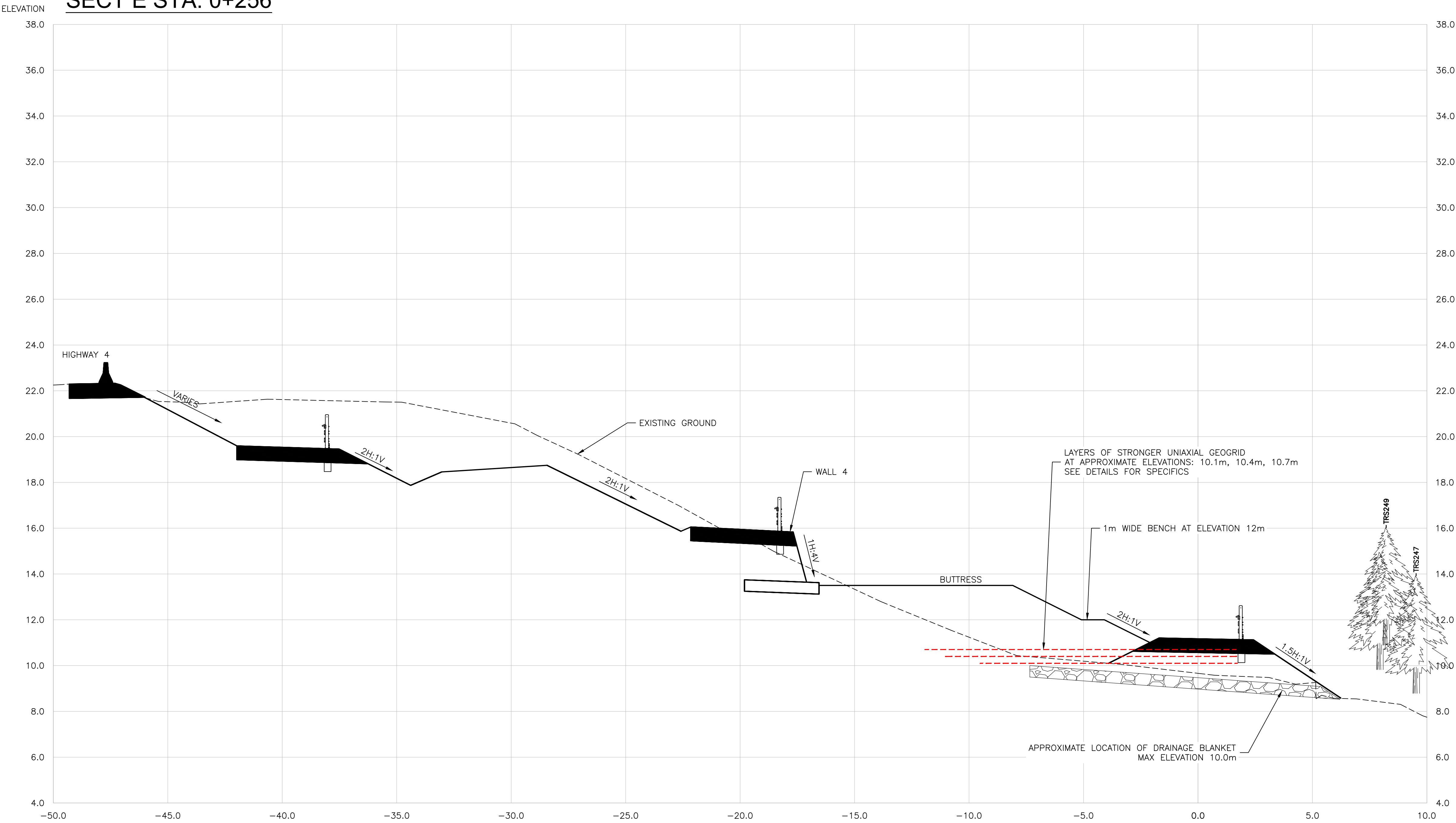
Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN SLOPE SECTION E STA 0+256
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Project No./No. du projet PCA #1522	Sheet/Feuille X-07 OF	Revision no./ La Révision no. 0
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KEY PLAN  
NTS

SECT E STA: 0+256

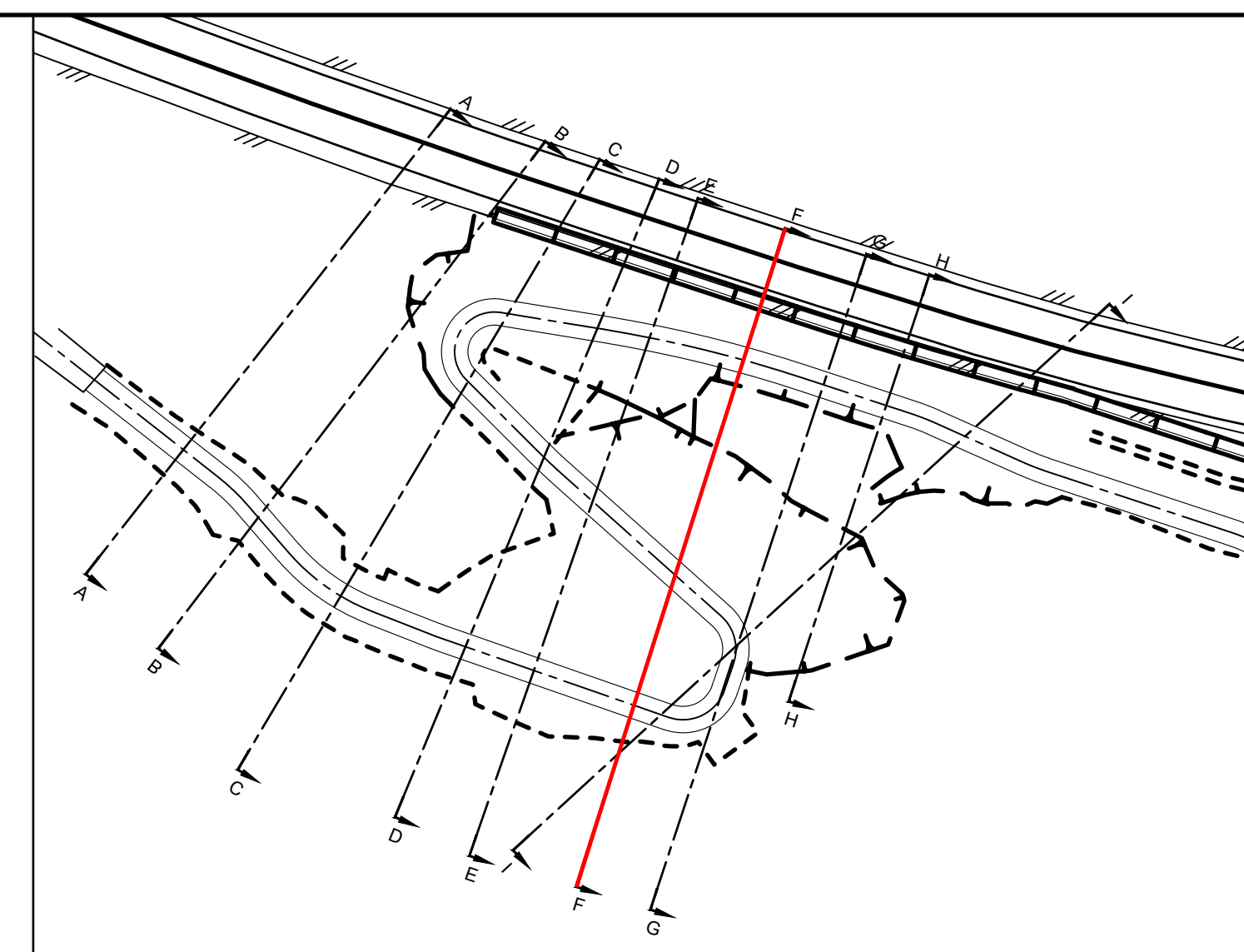


NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON  
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

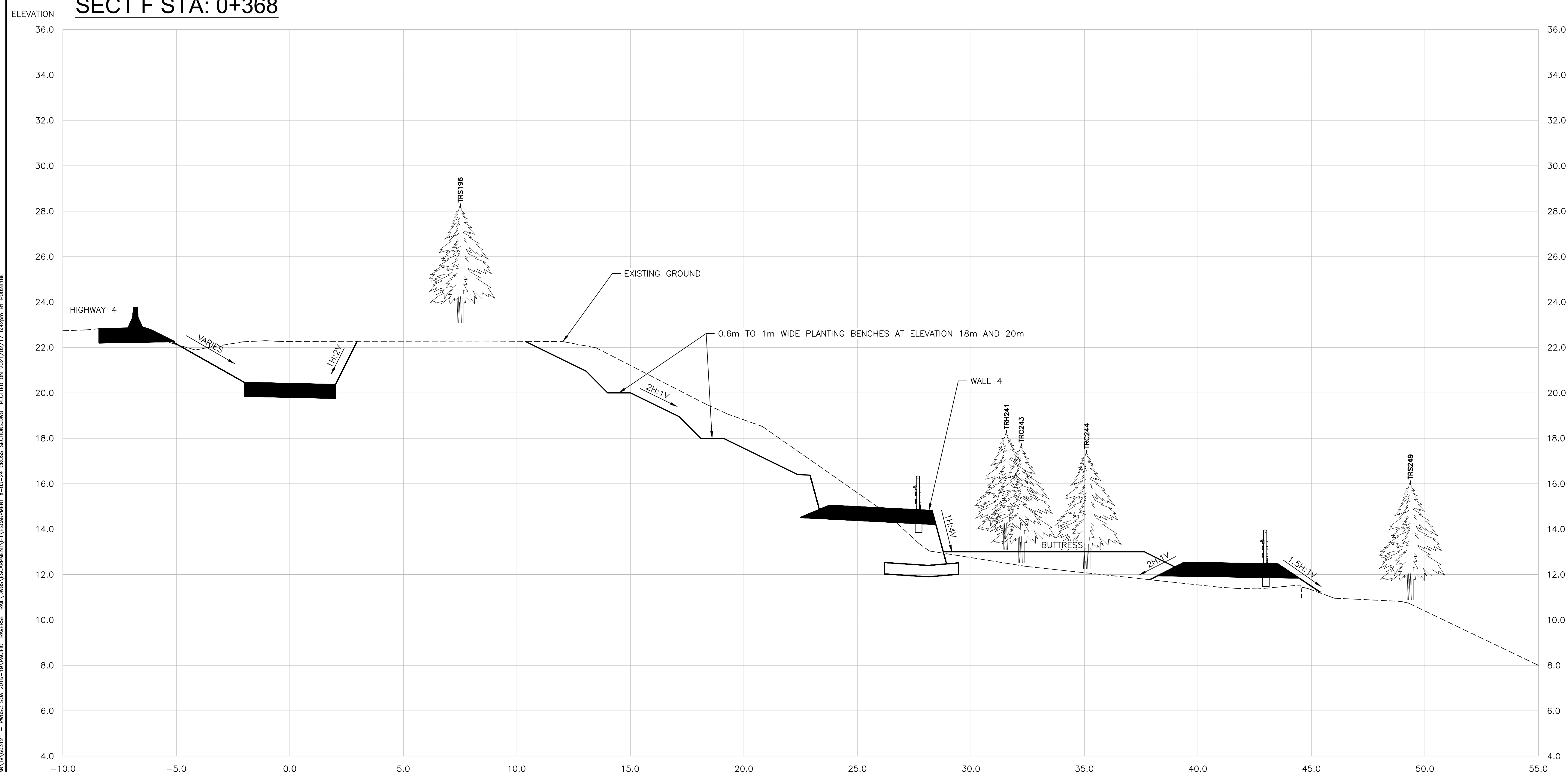




**PARSONS**

KEY PLAN  
NTS

## SECT F STA: 0+368




NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

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0	ISSUED FOR TENDER	21/02/11

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

Project title/Titre du projet

TOFINO

PACIFIC RIM  
NATIONAL PARK RESERVE

ʔapsčilik tašii  
(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”

Consultant Signature Only	
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Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

<p>Drawn by/Dessiné par MICHAEL GIANG</p>
<p>PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS</p>

Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

**SLOPE SECTION F**  
**STA 0+368**


Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>X-08</b>	Revision no. La Révision no. <b>0</b>
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**PARSONS**

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0		ISSUED FOR TENDER	21/02/18

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

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

Project title/Titre du projet

TOFINO

PACIFIC RIM  
NATIONAL PARK RESERVE

ʔaps̓ciik t̓as̓ii  
(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”

Consultant Signature Only	
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0 Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

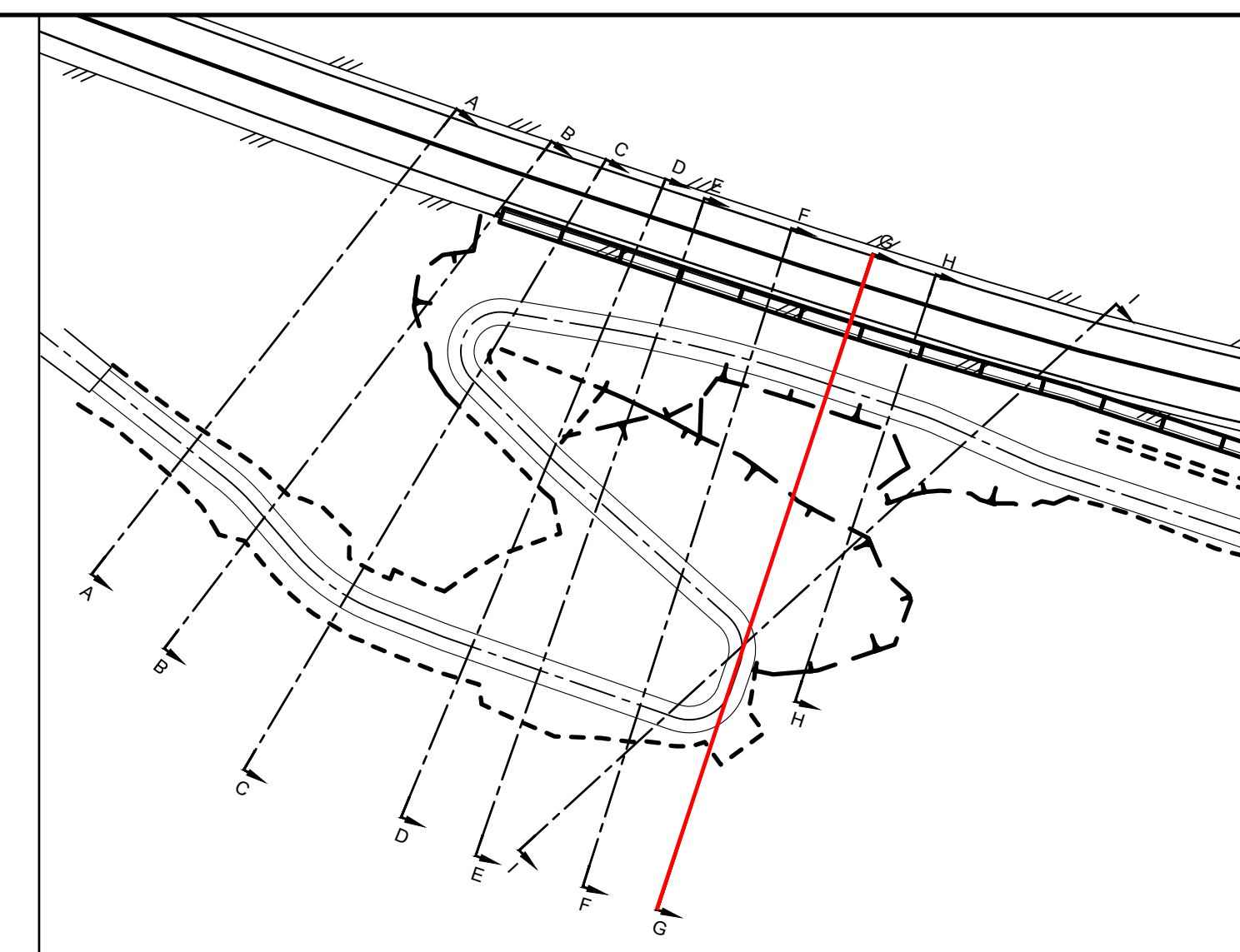
Drawn by/Dessine par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

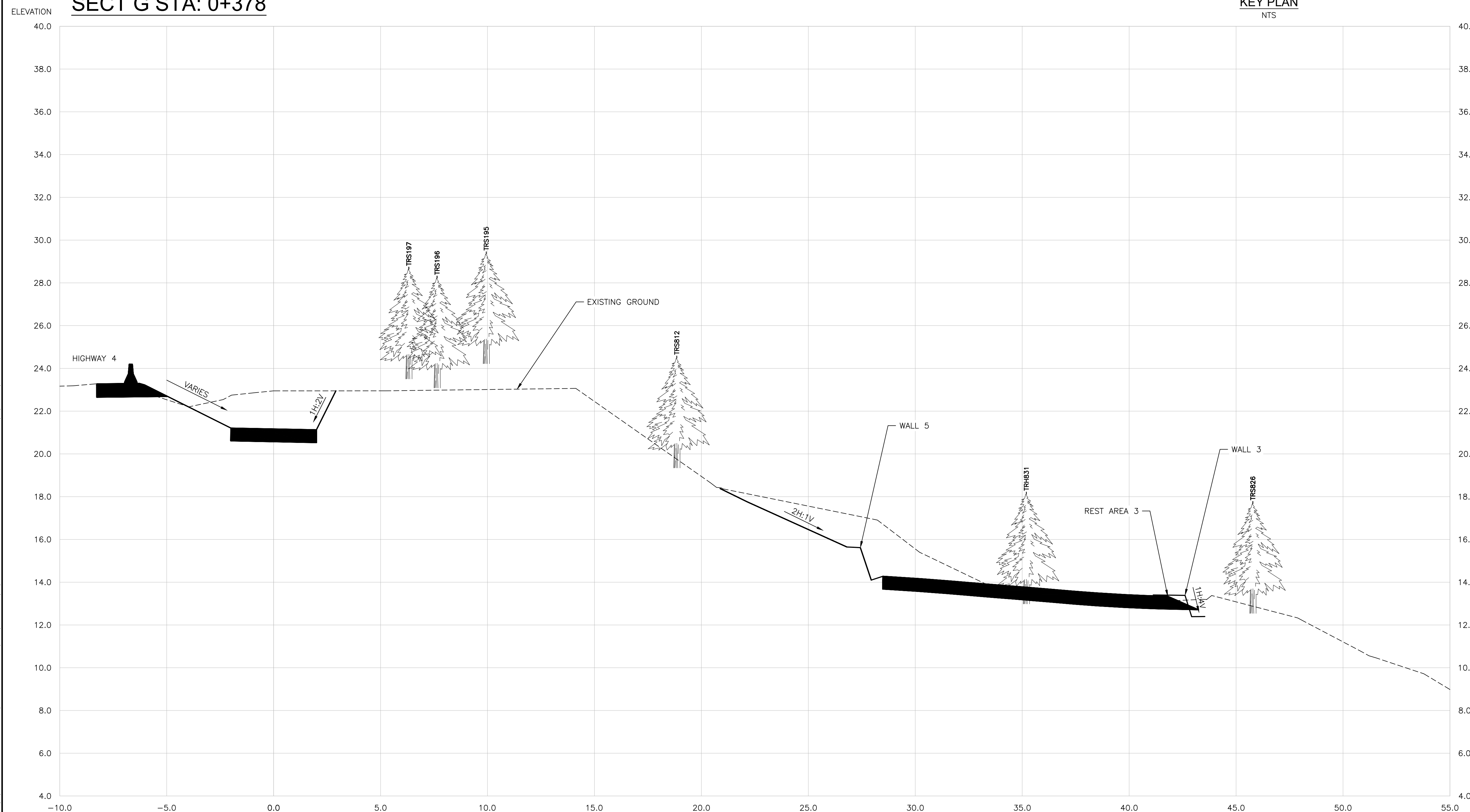
**SLOPE SECTION G**  
**STA 0+378**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-09	0
	OF	



KEY PLAN  
NTS

## SECT G STA: 0+378



SECTION  
1:100 HOR - 1:100 VER

**NOTE:**  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.






\\cansp501\WANT\03121 - PWSC - S&A - 2018 - 19\PACIFIC RIM\WSP\TRAIL\WMS\ESCAPMENT\_VT\ESCAPMENT\_V-03-04\_CROSS SECTIONS.WMG PLOTTED ON 2021/02/17 8:42pm BY P052818E

PARSONS



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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ʔapsc̓iik ʔasii
(Ups-cheek ta-shee)
“Going in the right direction on the trail”

Consultant Signature Only
---------------------------

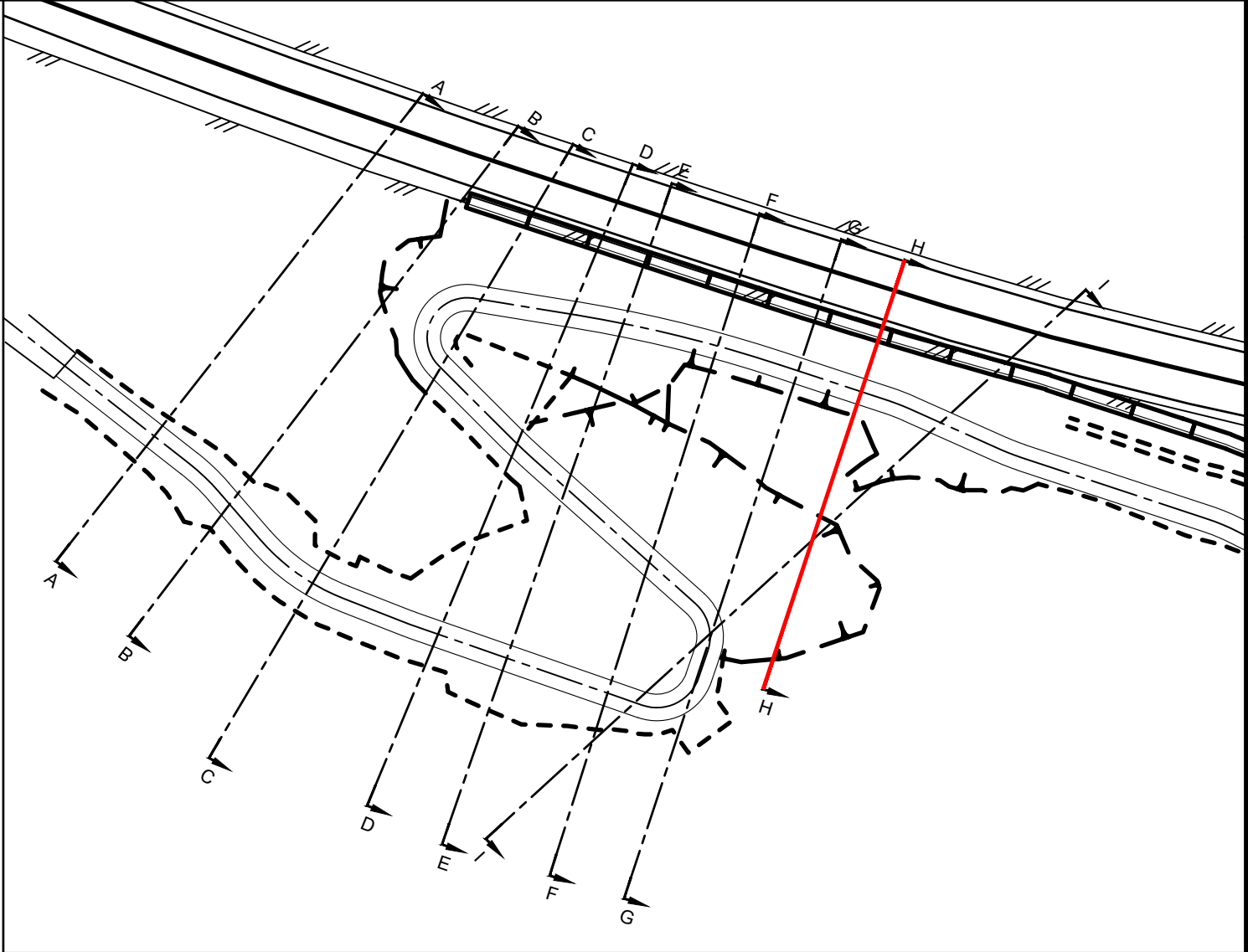
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DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

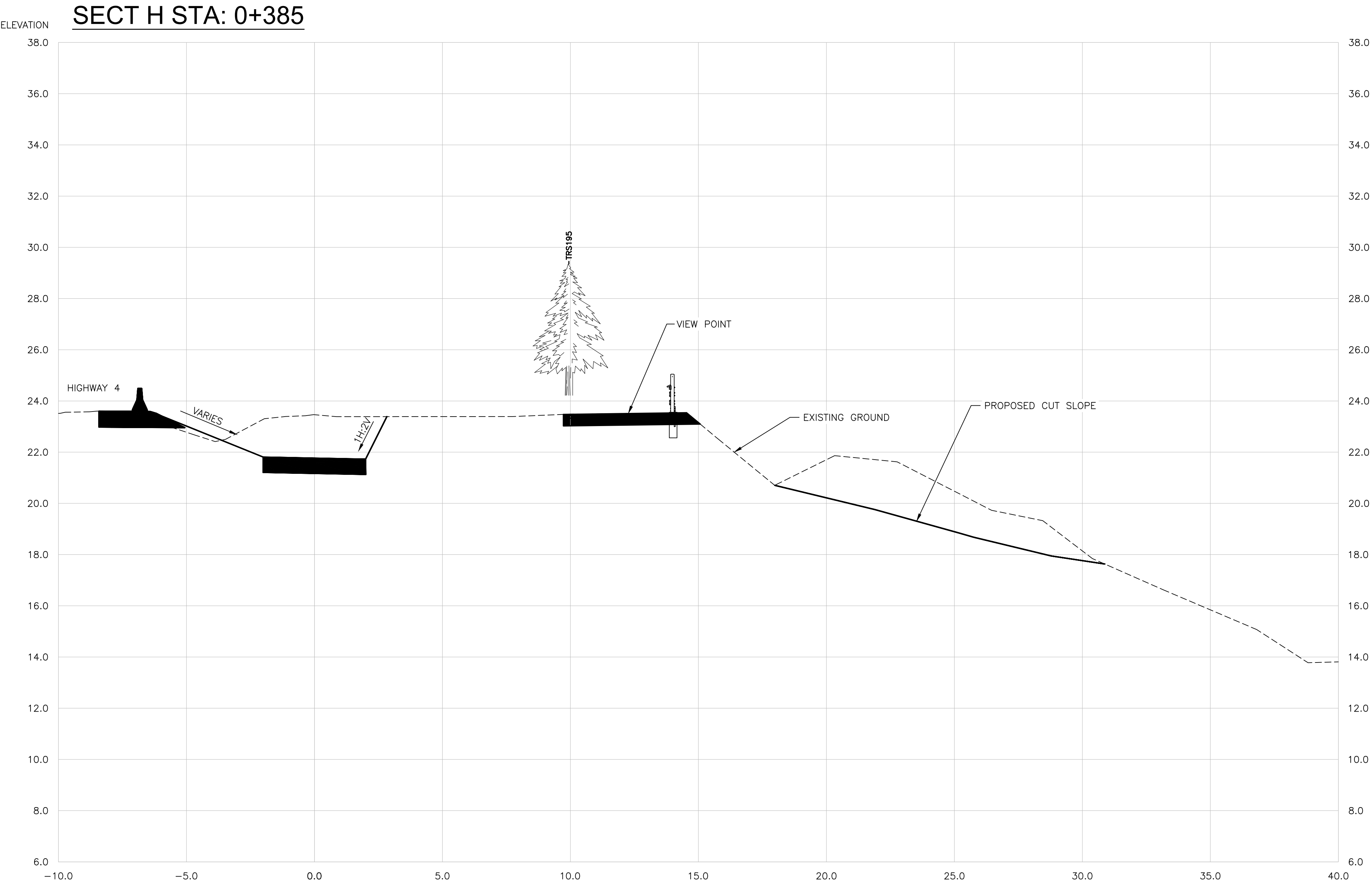
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SLOPE SECTION H
STA 0+385

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-10	0
	OF	



KEY PLAN  
NTS

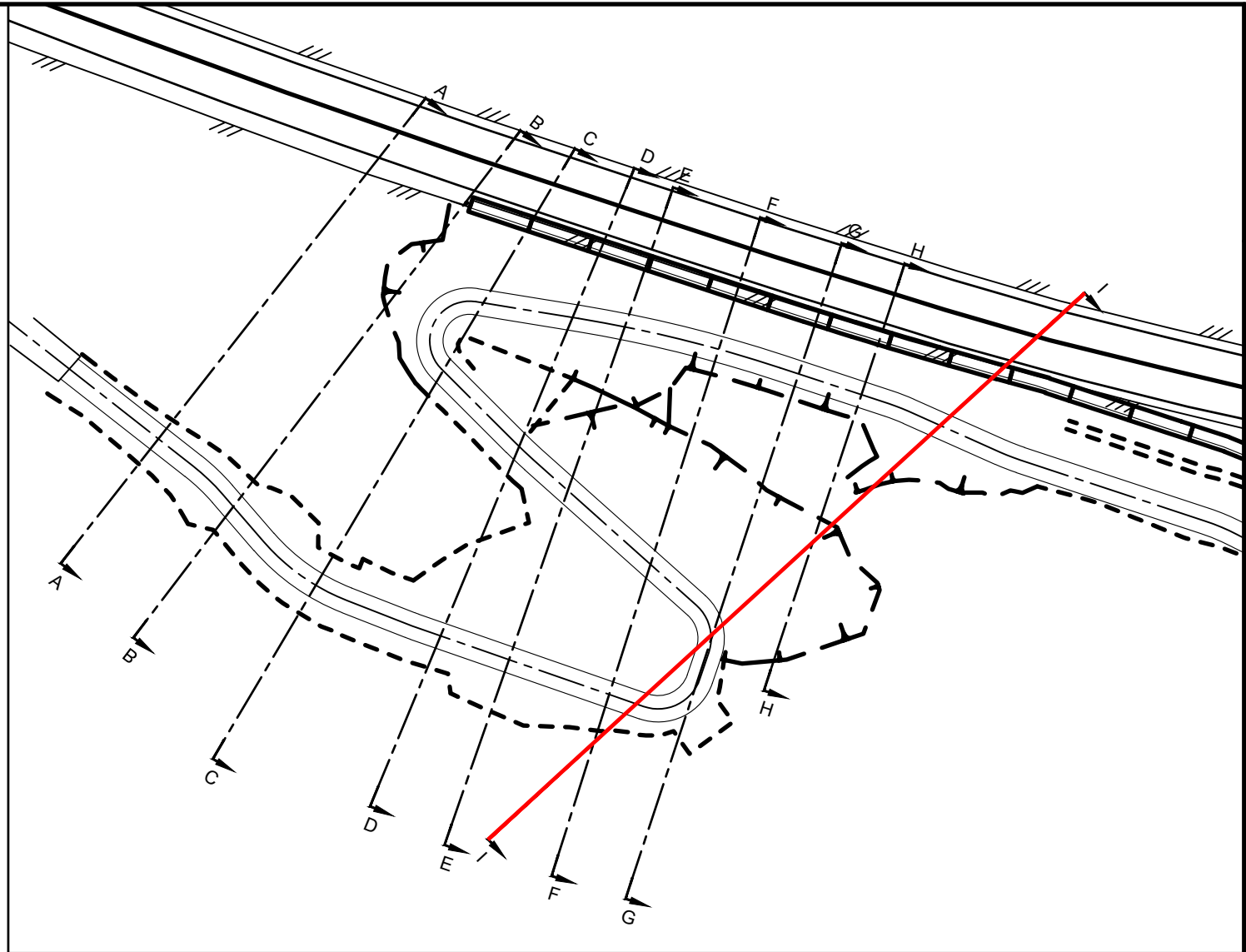


NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

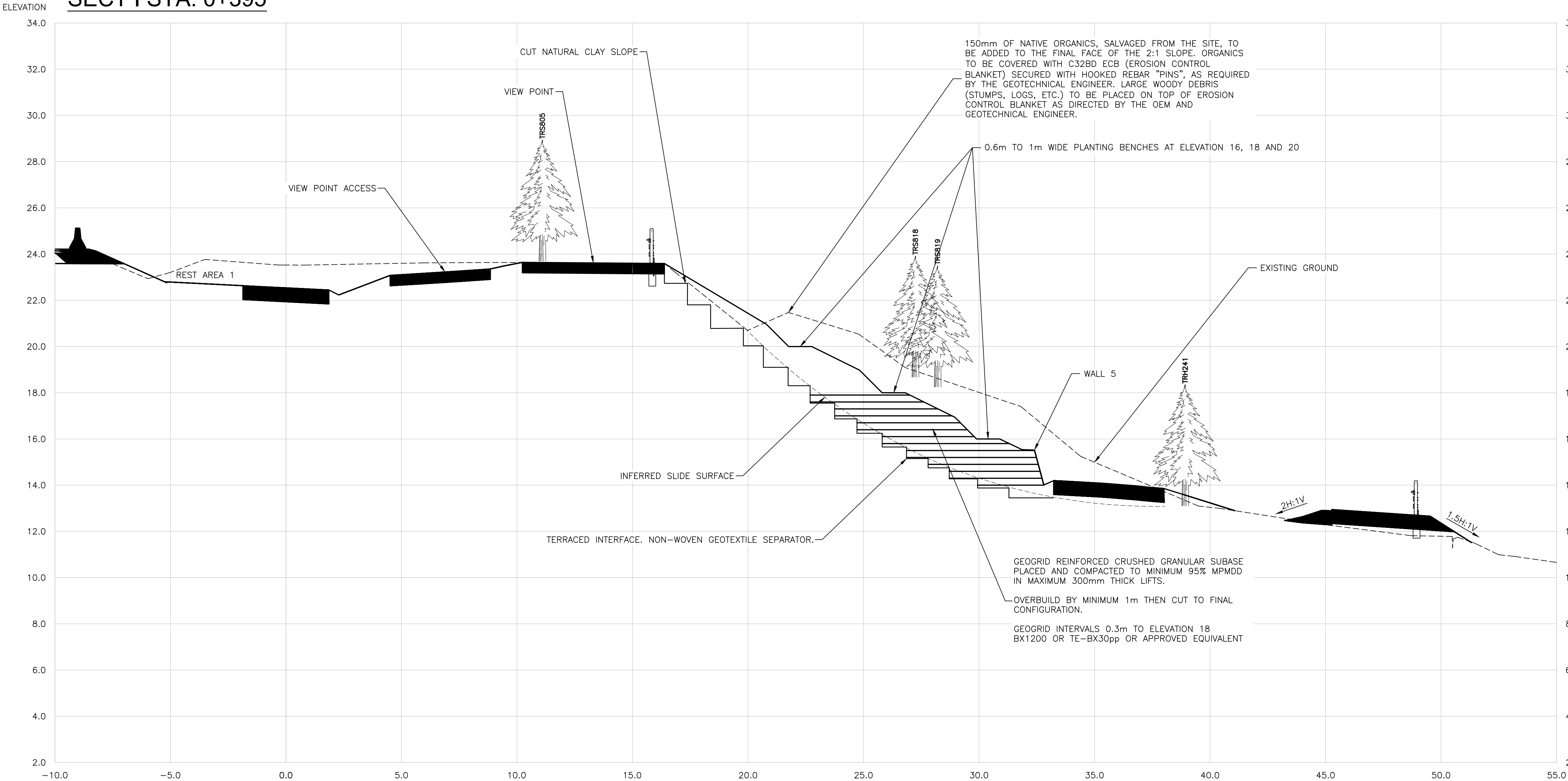


PARSONS



KEY PLAN  
NTS

SECT I STA: 0+395



NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

Client/client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Project title/Titre du projet  
**TOFINO  
PACIFIC RIM  
NATIONAL PARK RESERVE  
ᑕᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ  
(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”**

Consultant Signature Only
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessiné par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

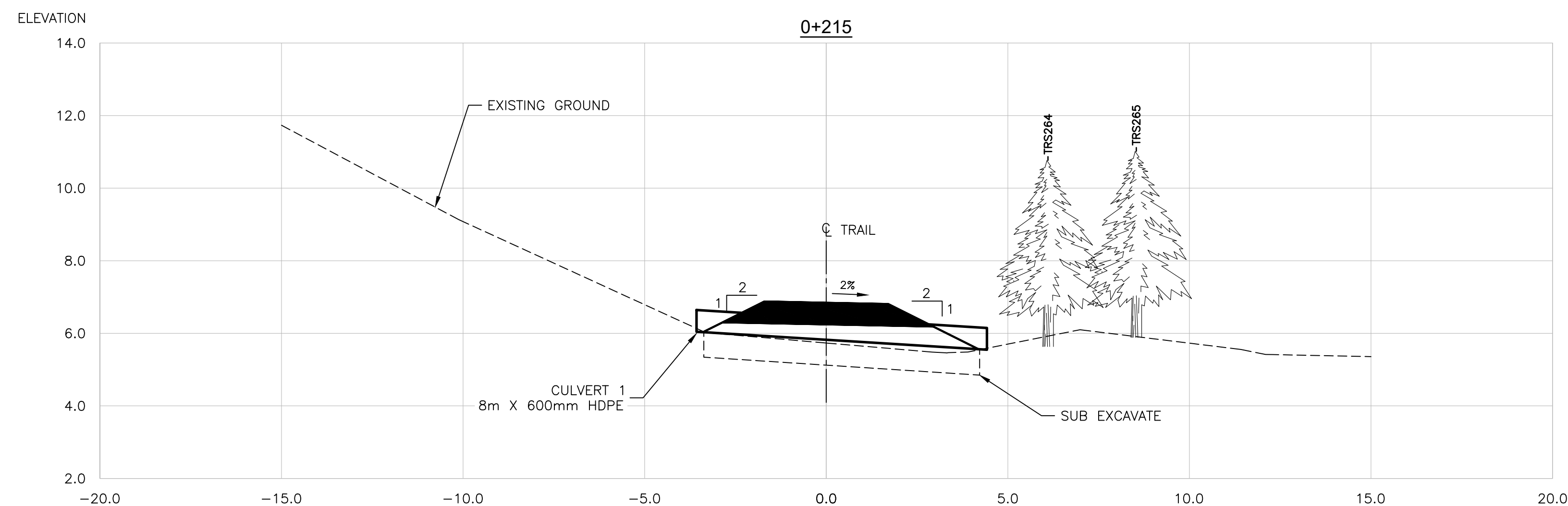
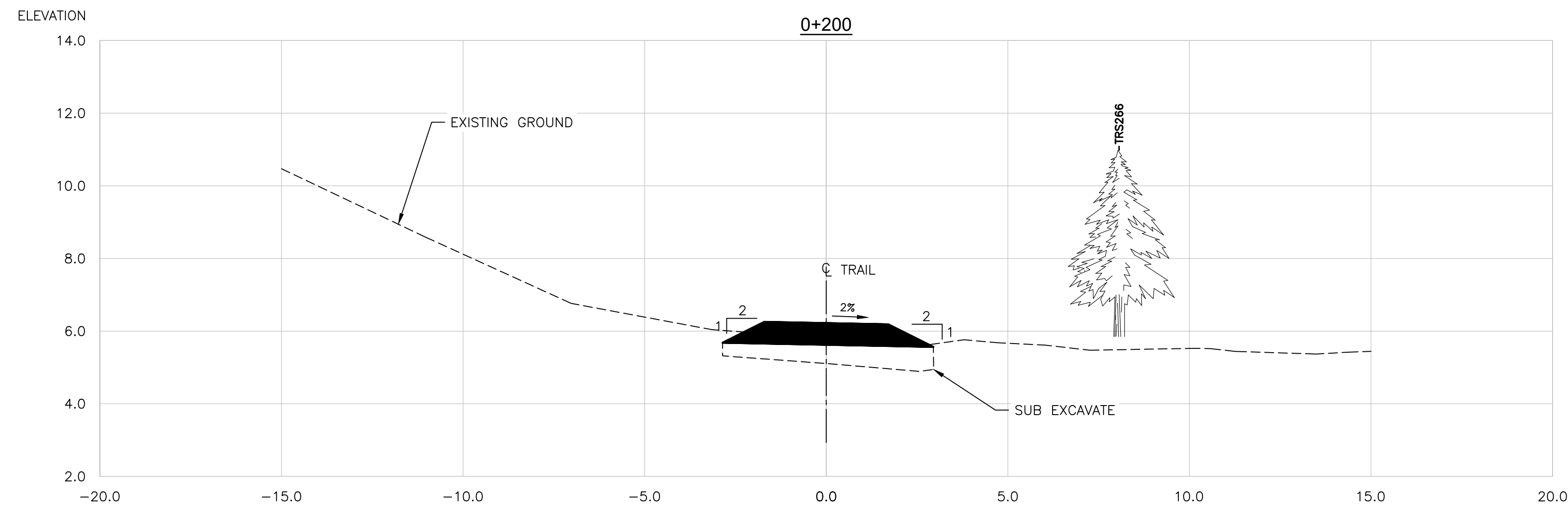
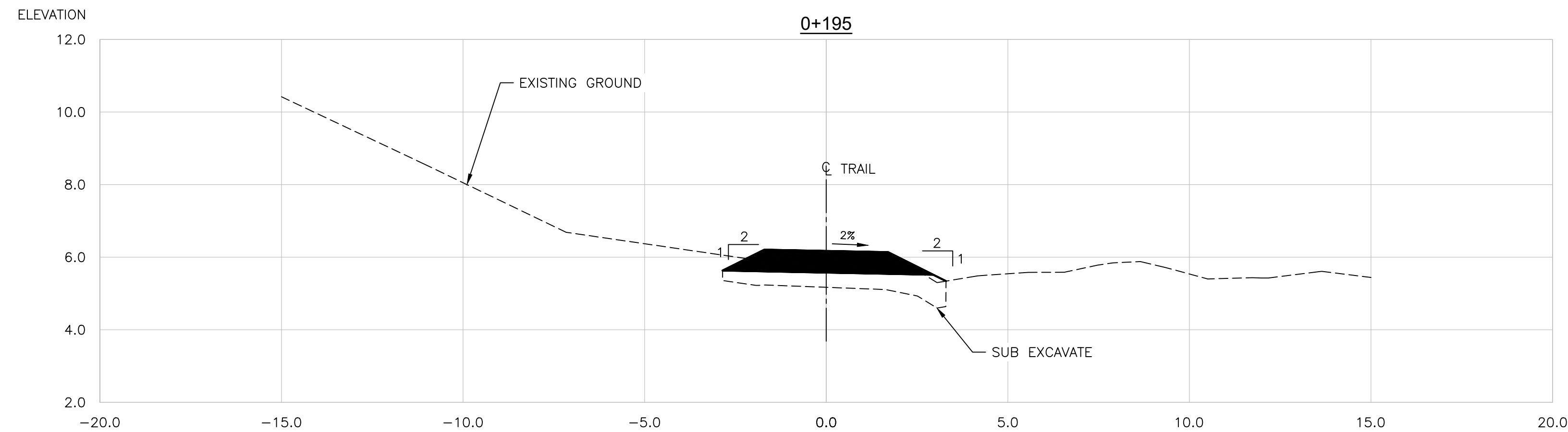
Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN  
SLOPE SECTION I  
STA 0+395**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>X-11</b> OF	Revision no./La Révision no. <b>0</b>
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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER


**PARSONS**


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0	ISSUED FOR TENDER	21/02/18

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

 Parks Canada  
Agency

 L'Agence Parcs  
Canada

Western and  
Northern Region

Ouest et Nord  
du Canada

Project title/Titre du projet

**TOFINO**

**PACIFIC RIM  
NATIONAL PARK RESERVE**

**ʔapsc̓iik ʔasii**  
**(Ups-cheek ta-shee)**  
**“Going in the right  
direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin

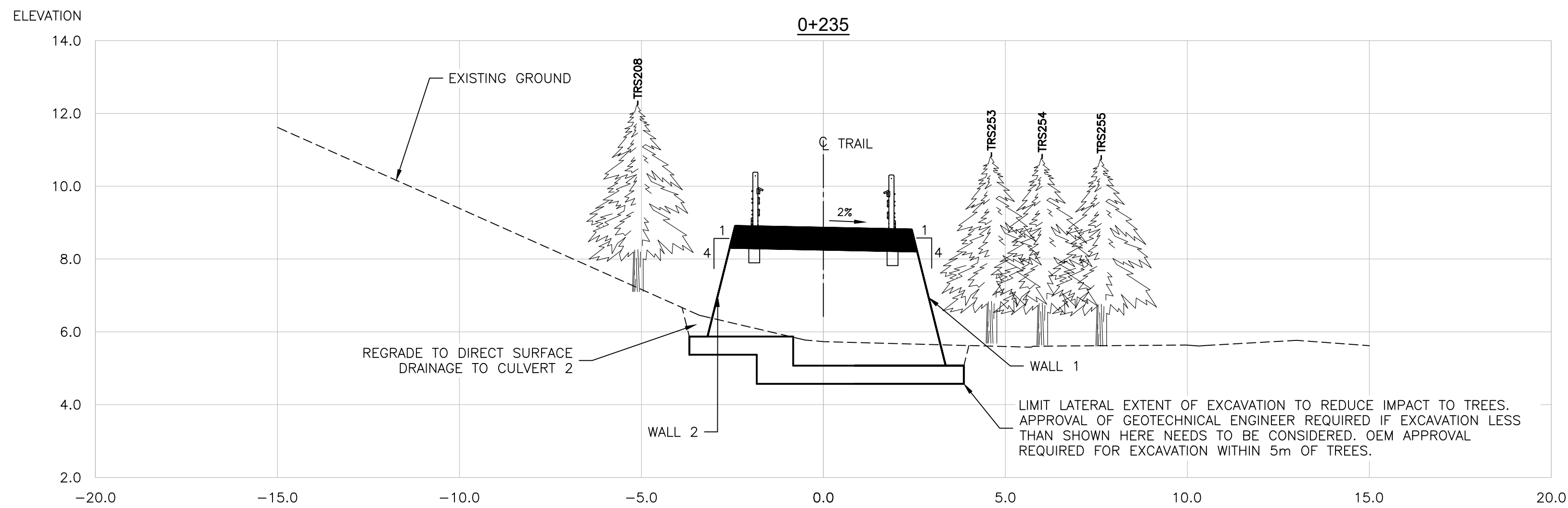
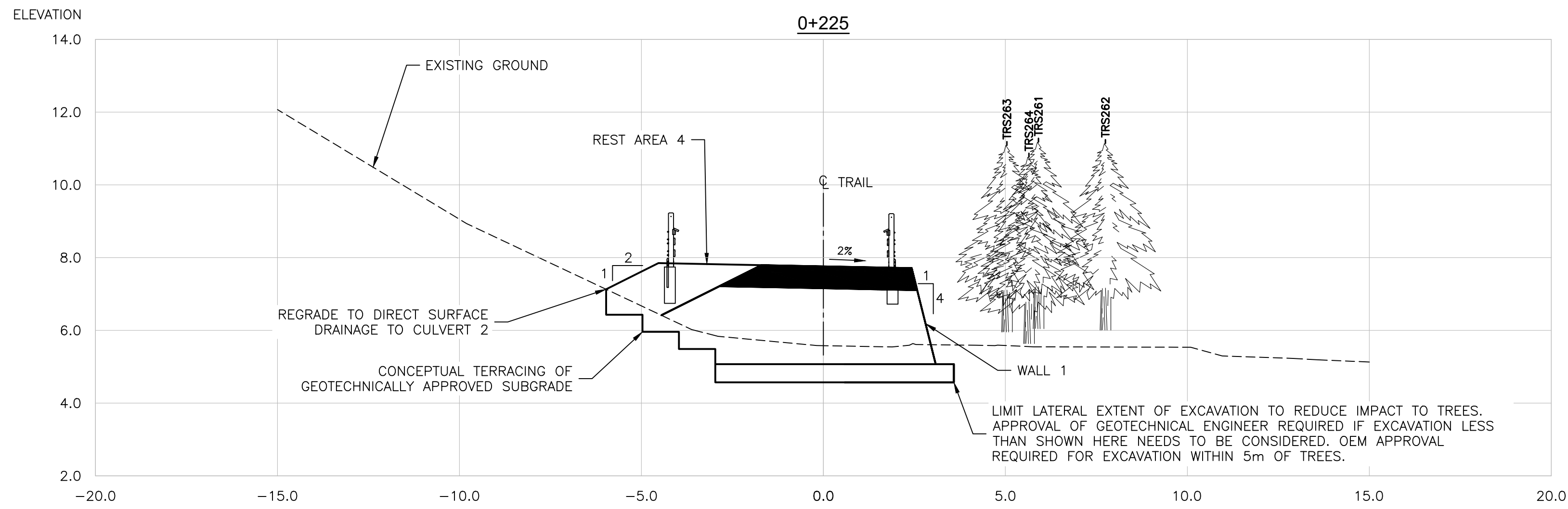
**WAYII AREA TRAIL DESIGN**

**TRAIL SECTIONS  
STA 0+195 TO STA 0+210**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	<b>X-12</b> OF	<b>0</b>



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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR - 1:100 VER

PARSONS

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

Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ?apsciiik tasii (Ups-cheek ta-shee) "Going in the right direction on the trail"
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Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN TRAIL SECTIONS STA 0+225 TO STA 0+240
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Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-13 OF	0





Parks Canada Agency	L'Agence Parcs Canada
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0	ISSUED FOR TENDER	21/02/18

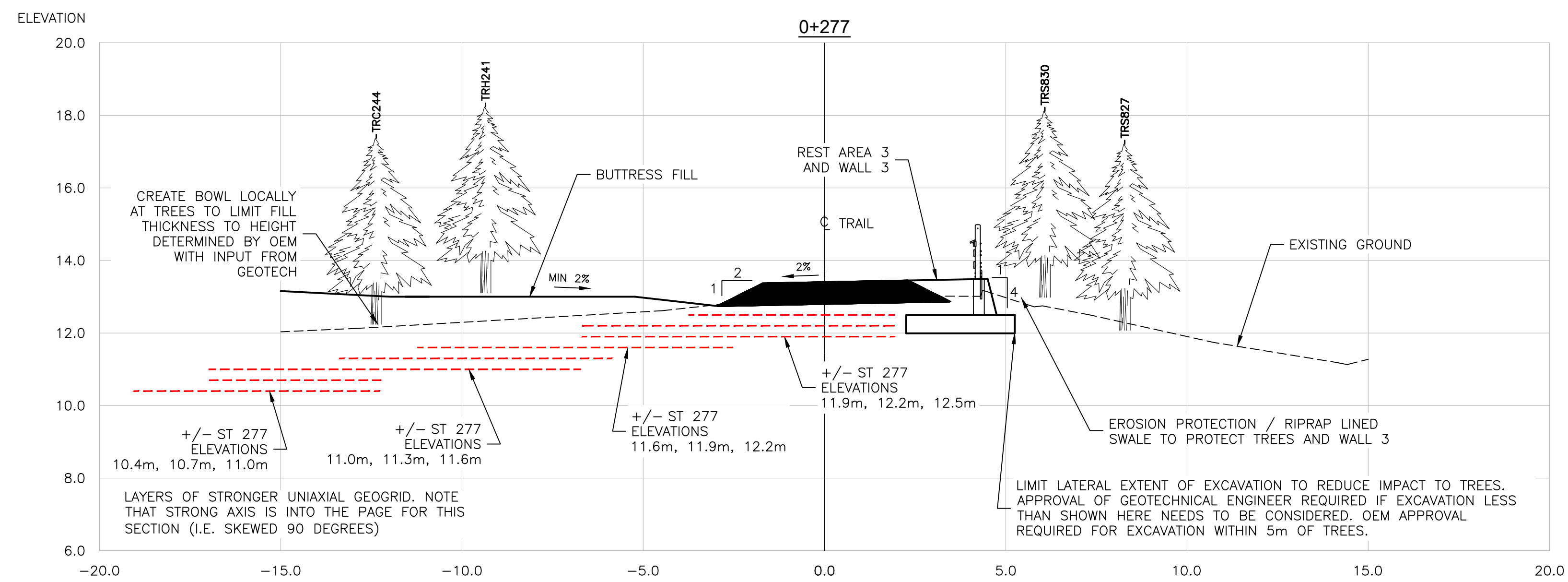
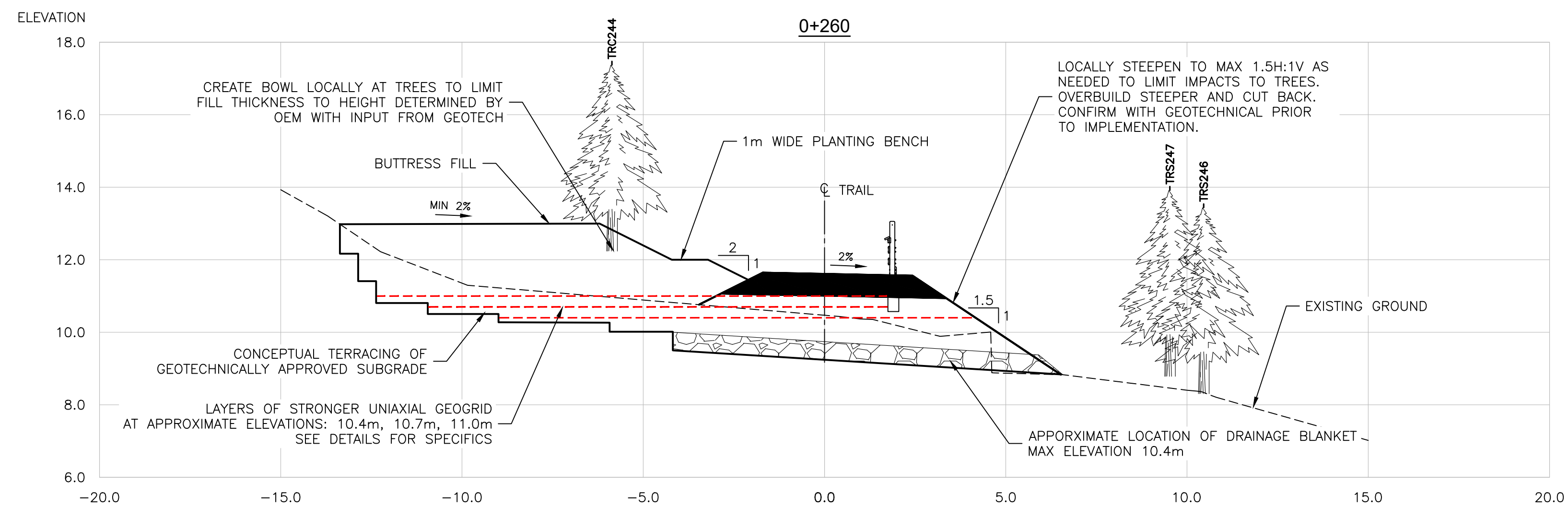
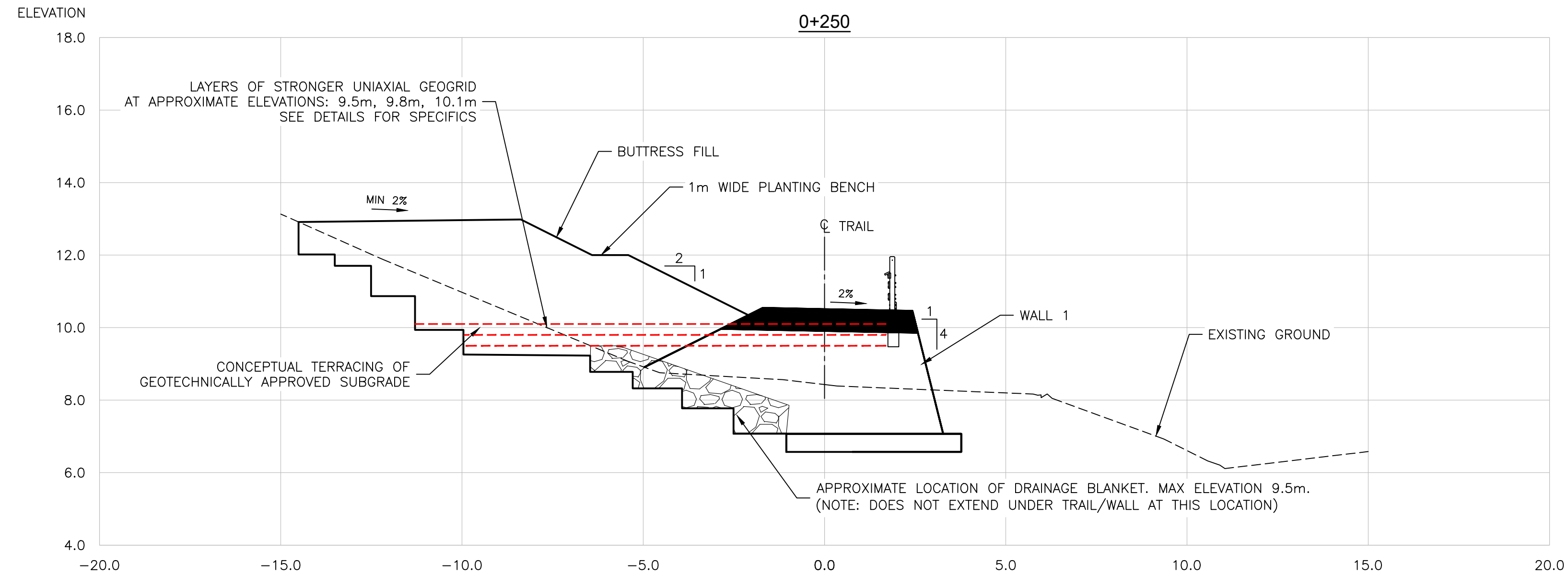
	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Consultant Signature Only

Drawn by/Dessiné par  
MICHAEL GIANG

\_\_\_\_\_

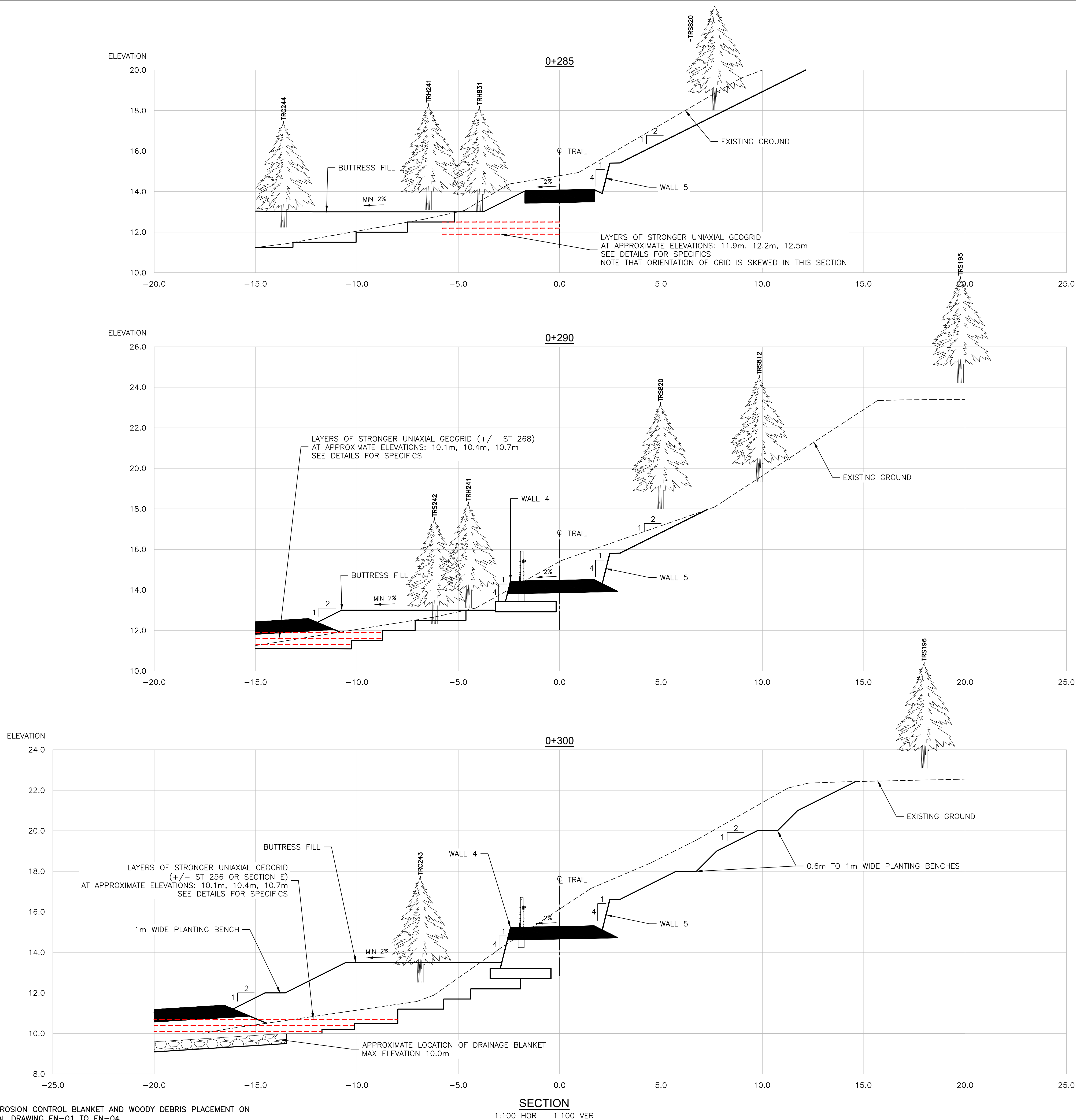
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PARSONS

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

Project title/Titre du projet

**TOFINO**

**PACIFIC RIM NATIONAL PARK RESERVE**

**ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ**

**(Ups-cheek ta-shee)**

**“Going in the right direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

**TRAIL SECTIONS**

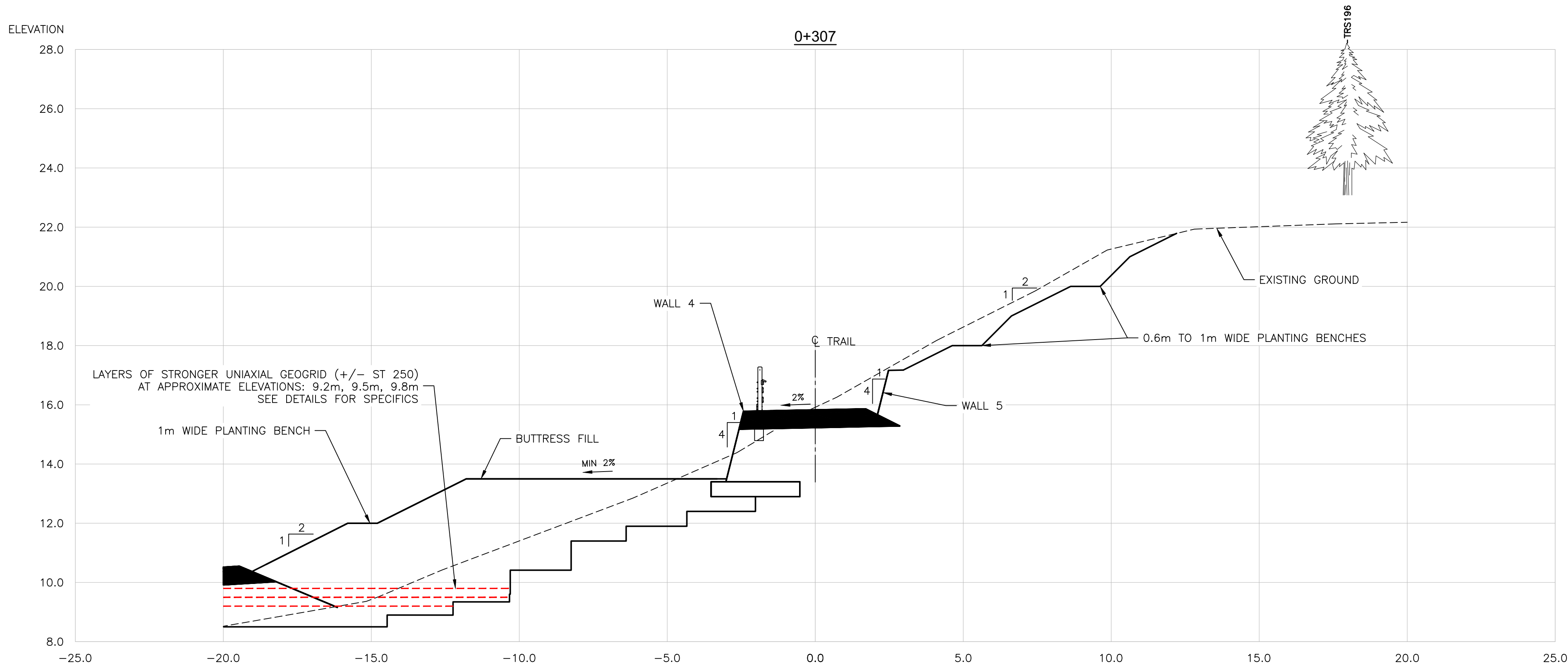
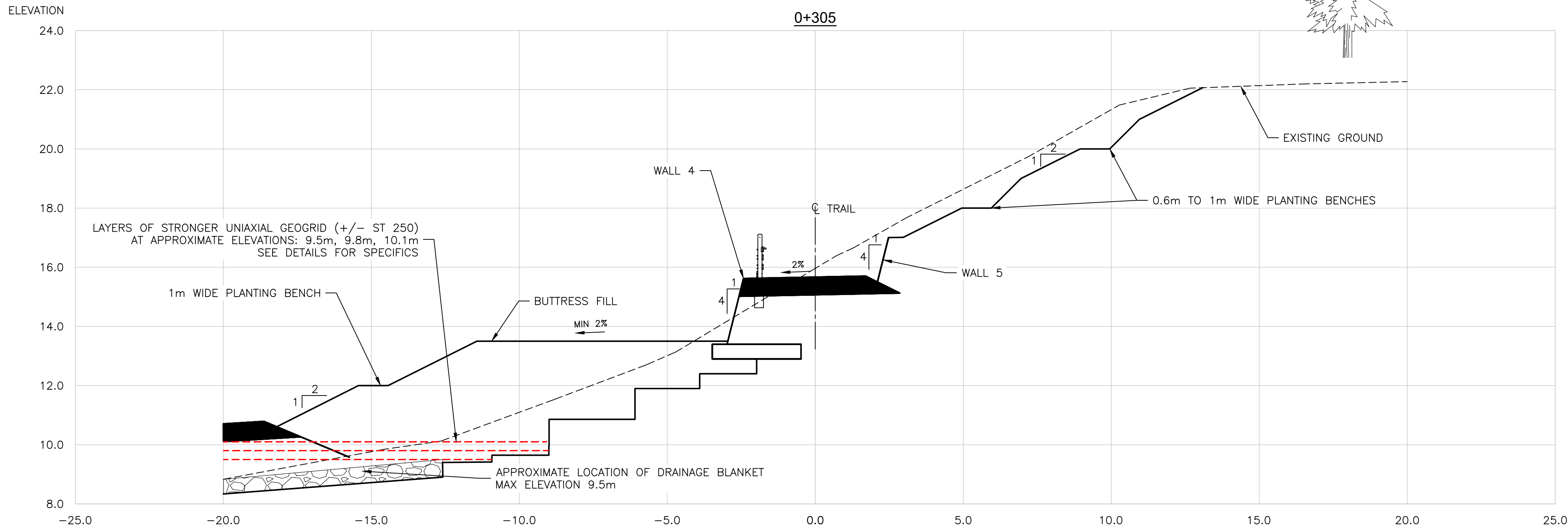
**STA 0+285 TO STA 0+300**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-15 OF	0





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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON  
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.


SECTION  
1:100 HOR — 1:100 VER

PARSONS

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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet	
TOFINO	
PACIFIC RIM NATIONAL PARK RESERVE	
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(Ups-cheek ta-shee)	
“Going in the right direction on the trail”	

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG


PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin	
WAYII AREA TRAIL DESIGN	
TRAIL SECTIONS STA 0+305 TO STA 0+307	

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	X-16 OF	0



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0	ISSUED FOR TENDER	21/02/18

 Parks Canada  
Agency

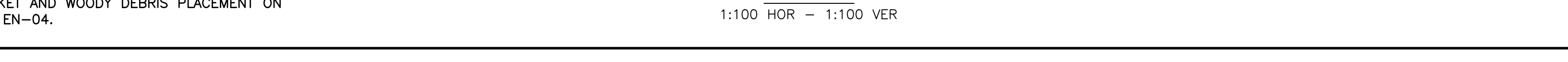
L'Agence Parcs  
Canada

Western and  
Northern Region

Ouest et Nord  
du Canada

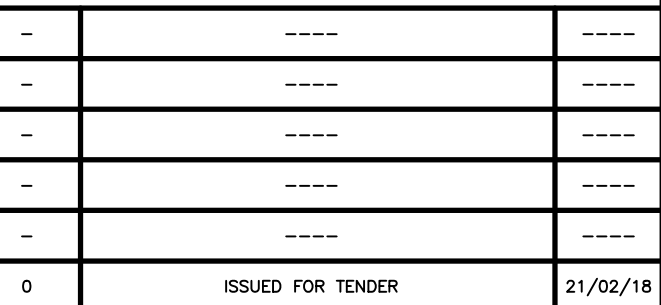
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessiné par MICHAEL GIANG
CA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS


project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>X-17</b> OF	Revision no./ La Révision no. <b>0</b>
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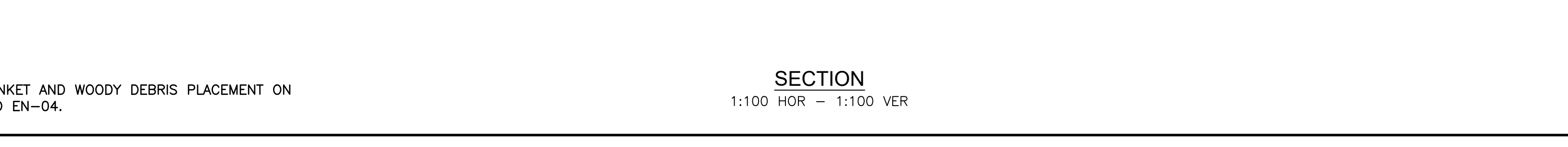


Client/client	
 Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Consultant Signature Only

rawn by/Dessine par  
MICHAEL GIANG

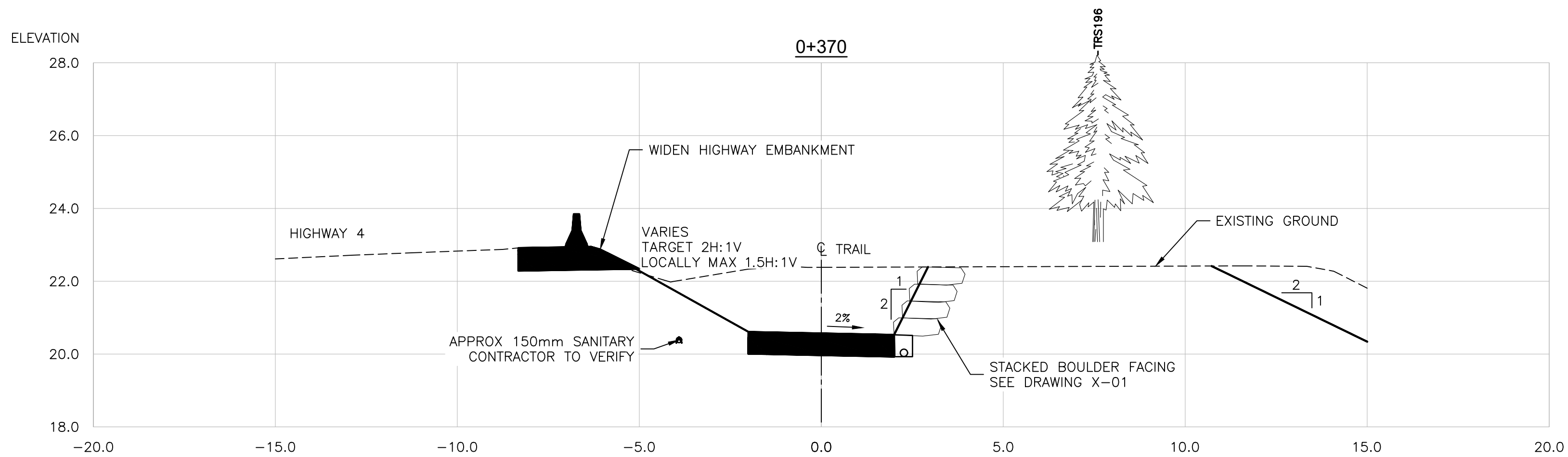
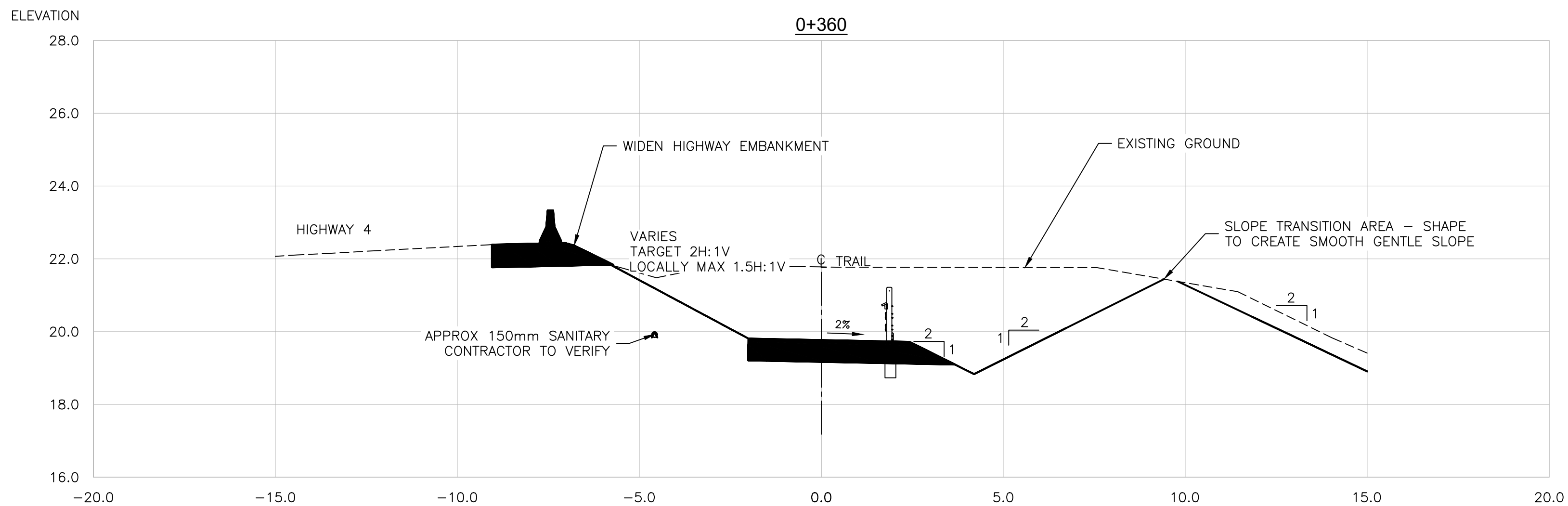
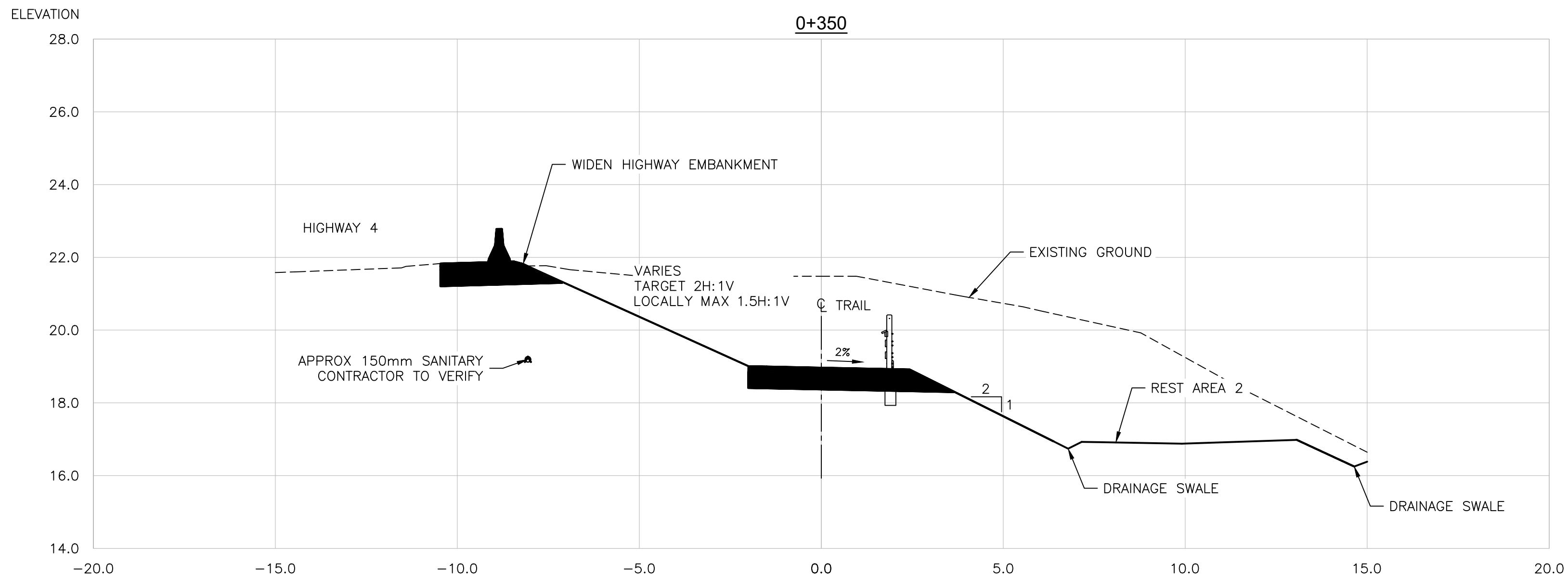
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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER

PARSONS

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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE ʔapsc̓iik ʔasii (Ups-cheek ta-shee) “Going in the right direction on the trail”

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS STA 0+350 TO STA 0+370

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	X-19 OF	0





PARSONS



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0	ISSUED FOR TENDER	21/02/18

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

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑕᐱᓂᑦᑕᑦᑕ ᑕᐱᓂᑦᑕ**  
**(Ups-cheek ta-shee)**  
**“Going in the right  
direction on the trail”**

Consultant Signature Only

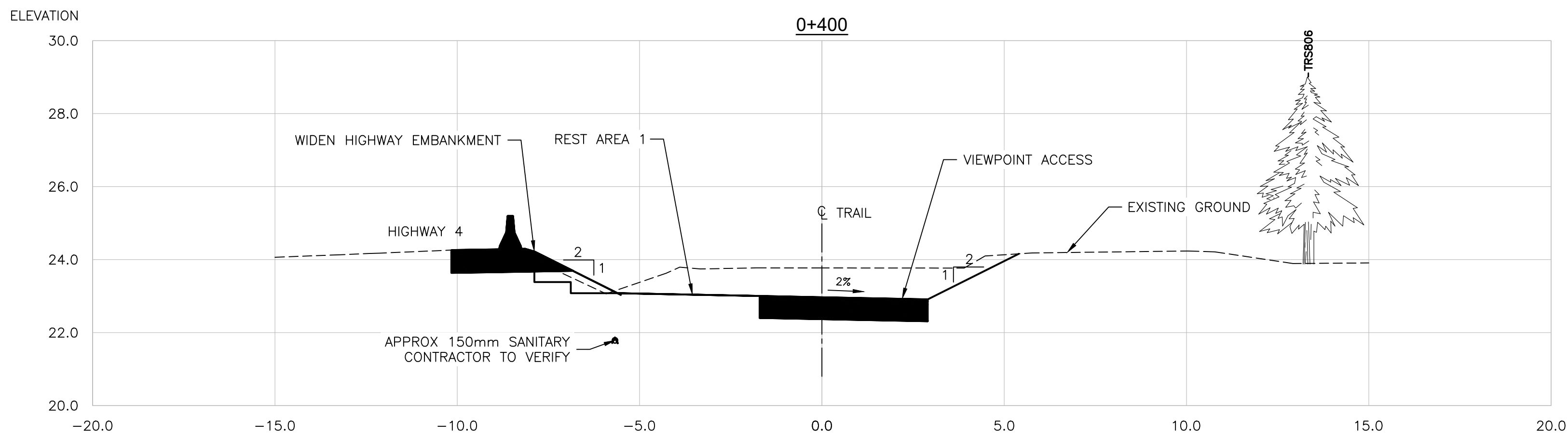
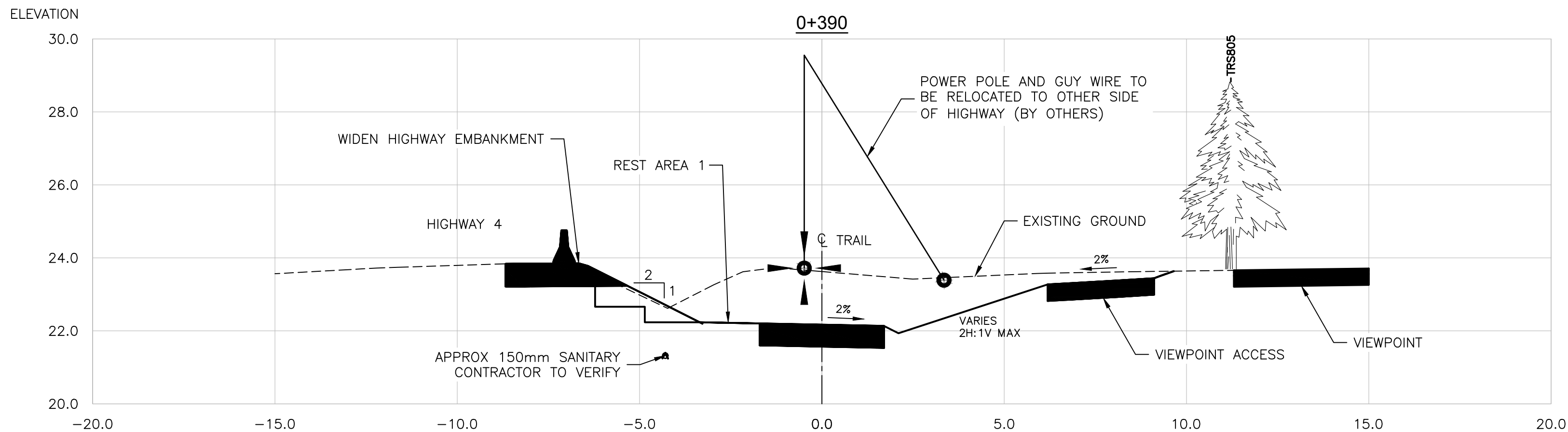
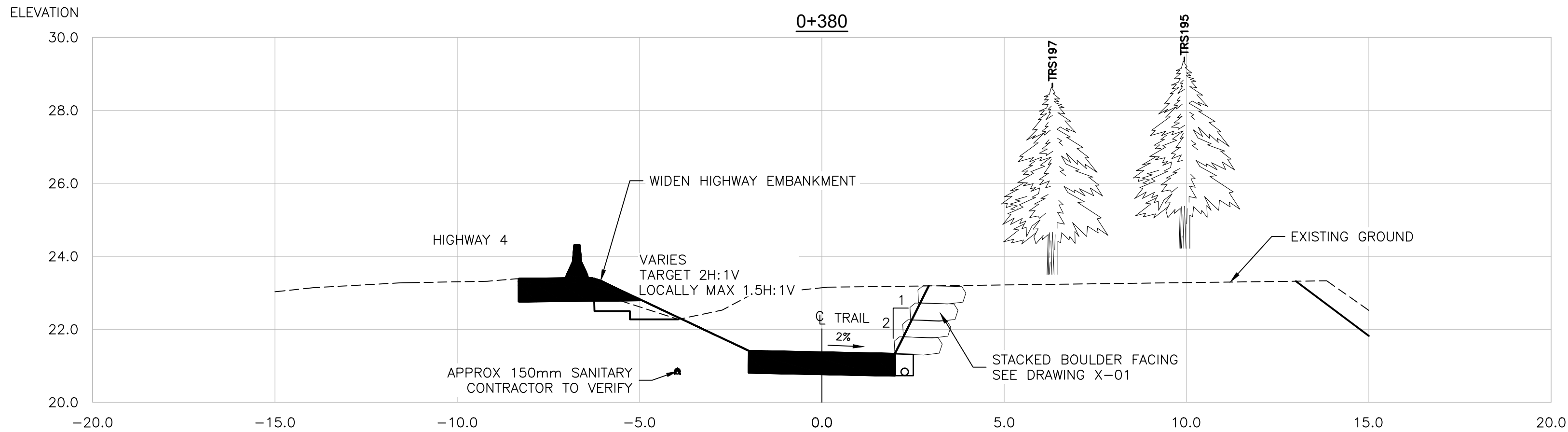
Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**TRAIL SECTIONS**  
**STA 0+380 TO STA 0+400**

Project No./No. du projet <b>PCA #1522</b>	Sheet/ Feuille <b>X-20</b> OF	Revision no./ La Révision no. <b>0</b>
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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON  
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER



\\VCC\BSP01\WANT\03121 - PWGSC - S&A - 2018 - PN PACIFIC TRAIL\WMS\ESCAPMENT\T ESCAPMENT - 03-24 CROSS SECTIONS.WMG PLOTTED ON: 2021/02/17 8:46pm BY: P02618E

PARSONS



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0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ᑭᐱᓂᑦᑕᑦᑭ ᑭᐱᓂᑦᑕᑦᑭ
(Ups-cheek ta-shee)
“Going in the right direction on the trail”

Consultant Signature Only

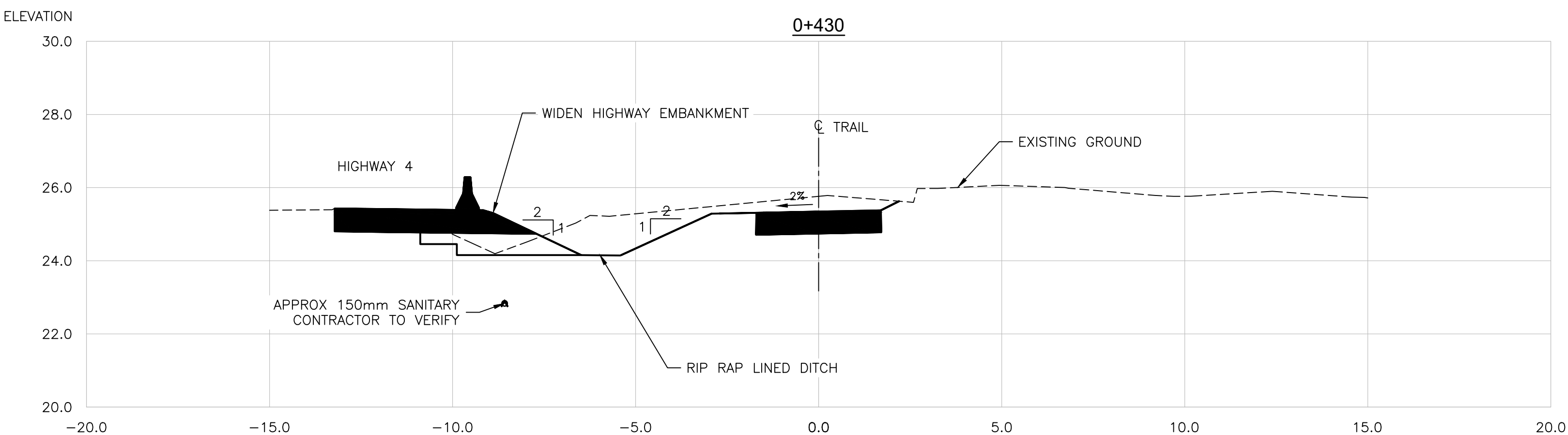
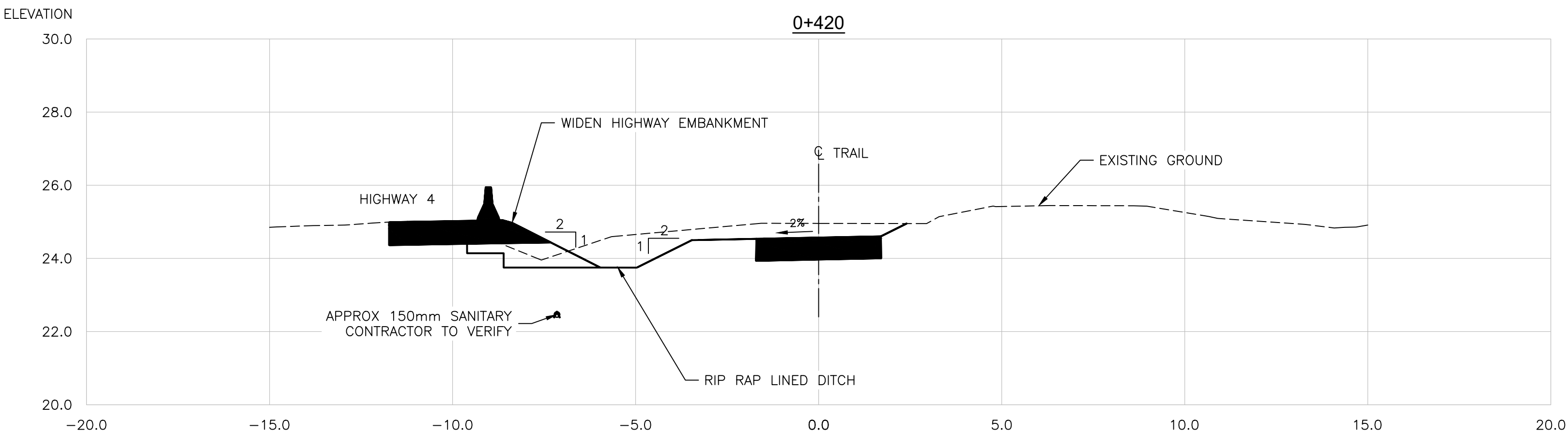
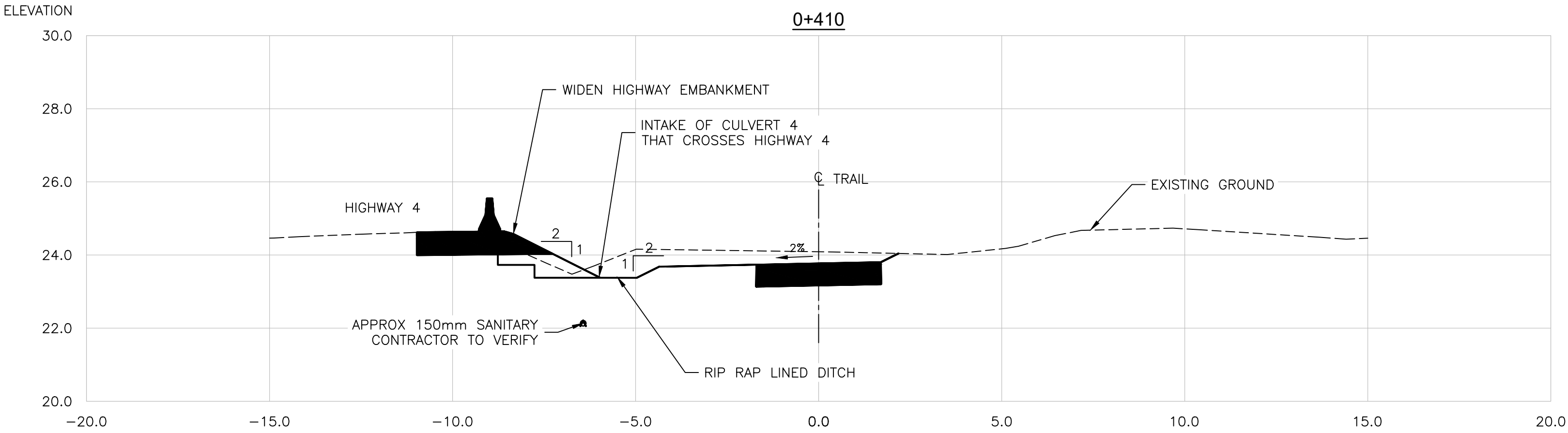
Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS STA 0+410 TO STA 0+430

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	X-21 OF	0



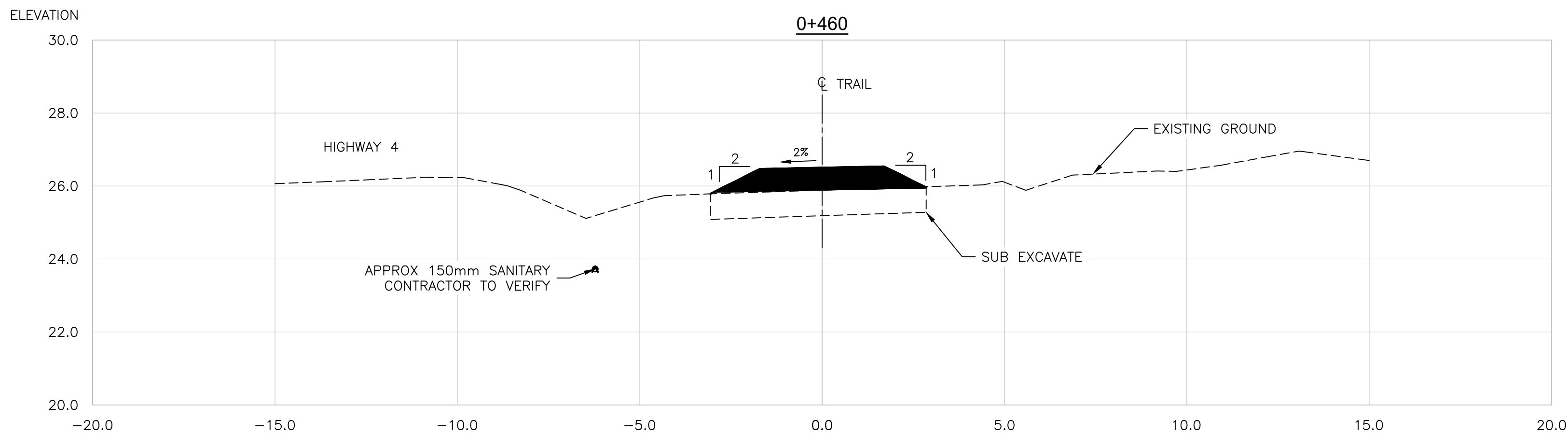
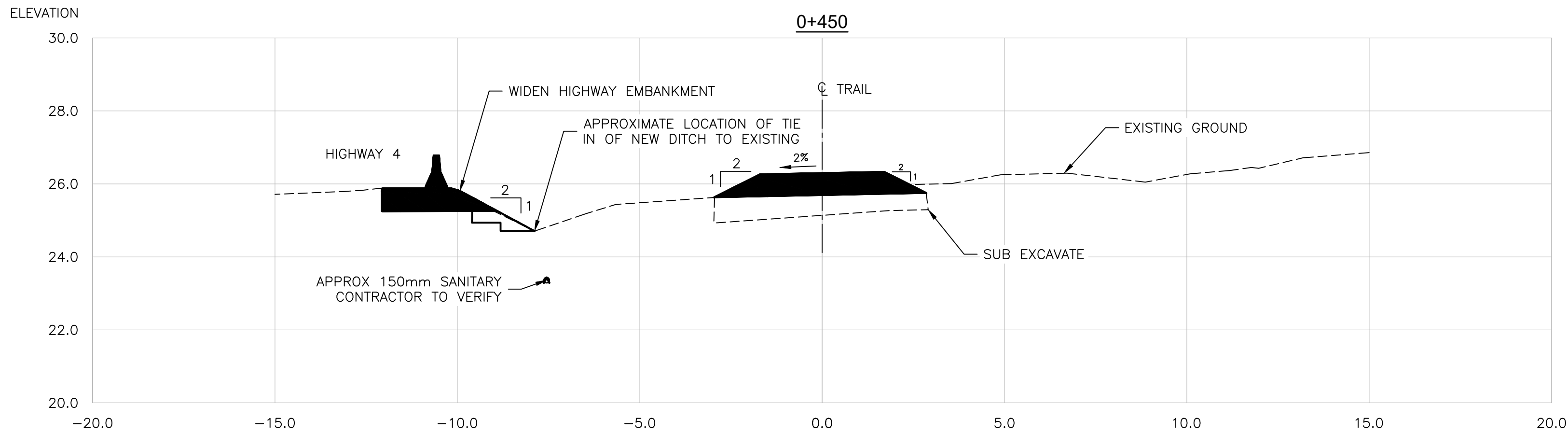
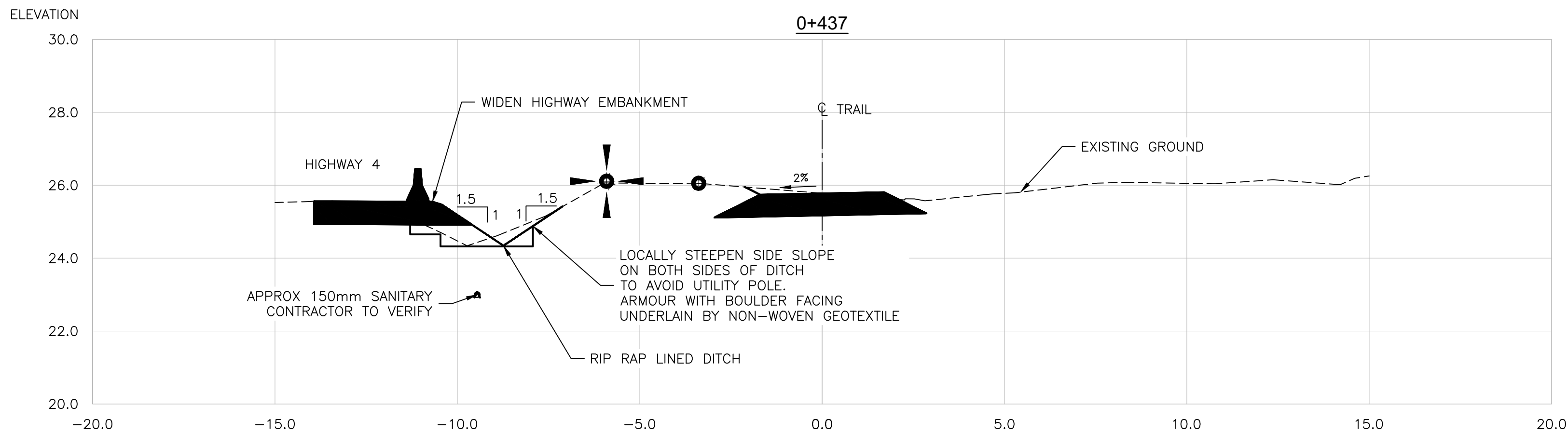
NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON  
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER





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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.


SECTION  
1:100 HOR — 1:100 VER

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
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(Ups-cheek ta-shee)
“Going in the right direction on the trail”

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Drawn by/Dessiné par  
MICHAEL GIANG

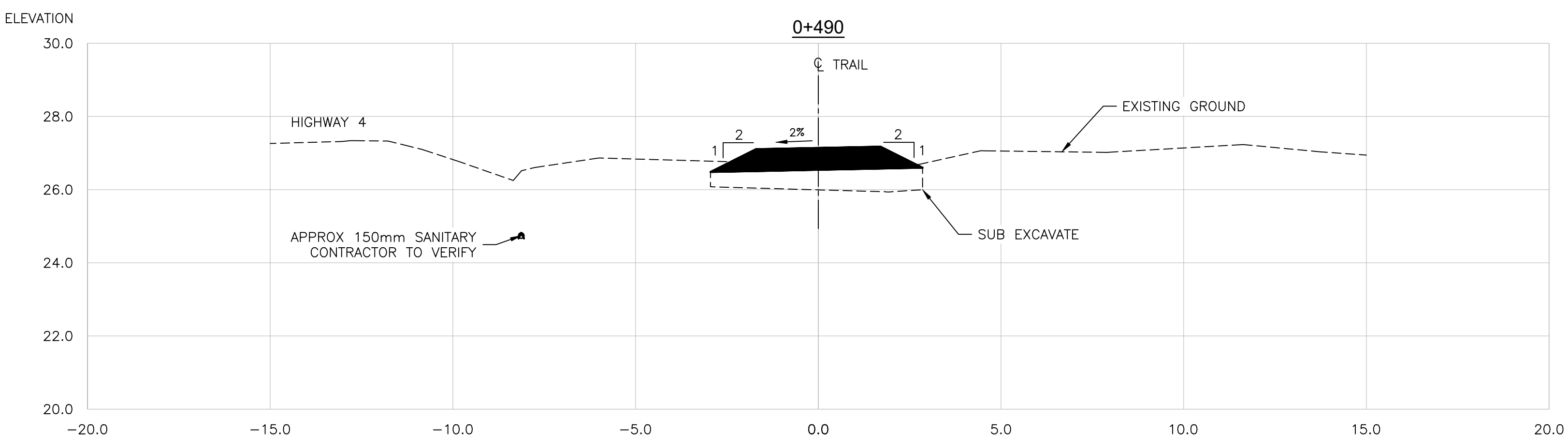
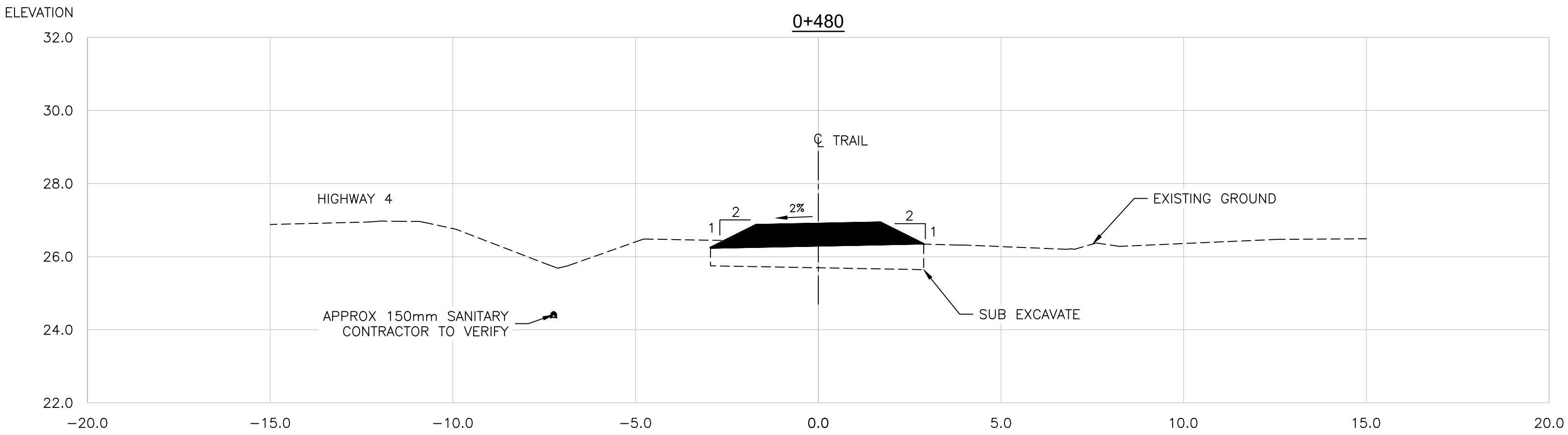
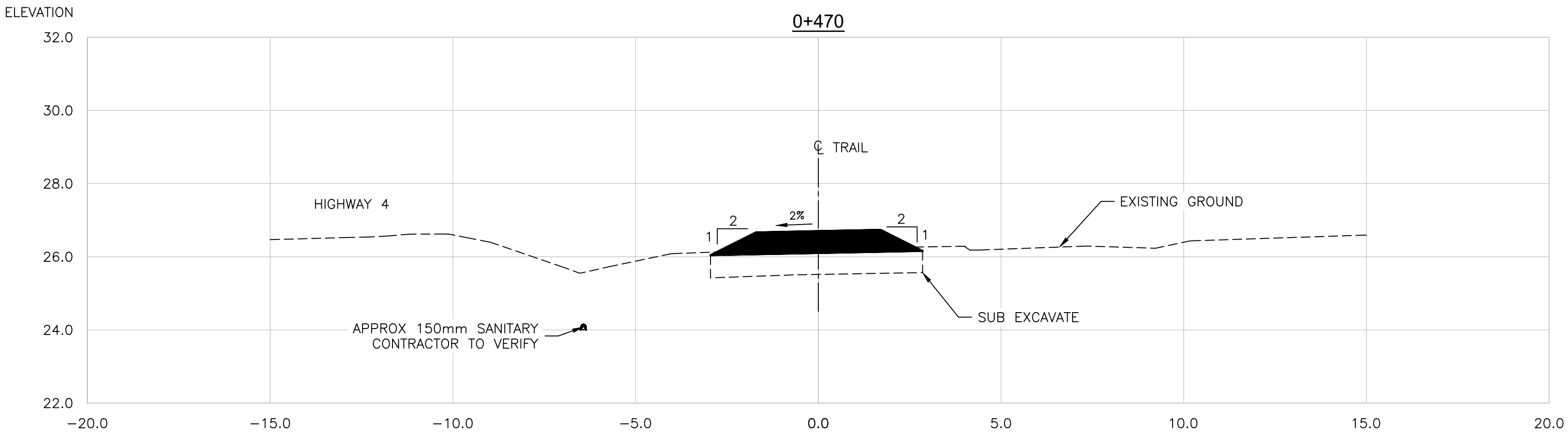
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS STA 0+437 TO STA 0+460

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	X-22 OF	0



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NOTE:  
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER

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

Project title/Titre du projet		
TOFINO		
PACIFIC RIM NATIONAL PARK RESERVE		
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(Ups-cheek ta-shee)		
“Going in the right direction on the trail”		
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Drawn by/Dessiné par MICHAEL GIANG		
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS		
Drawing title/Titre du dessin		
WAYII AREA TRAIL DESIGN		
TRAIL SECTIONS STA 0+470 TO STA 0+490		
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	X-23 OF	0

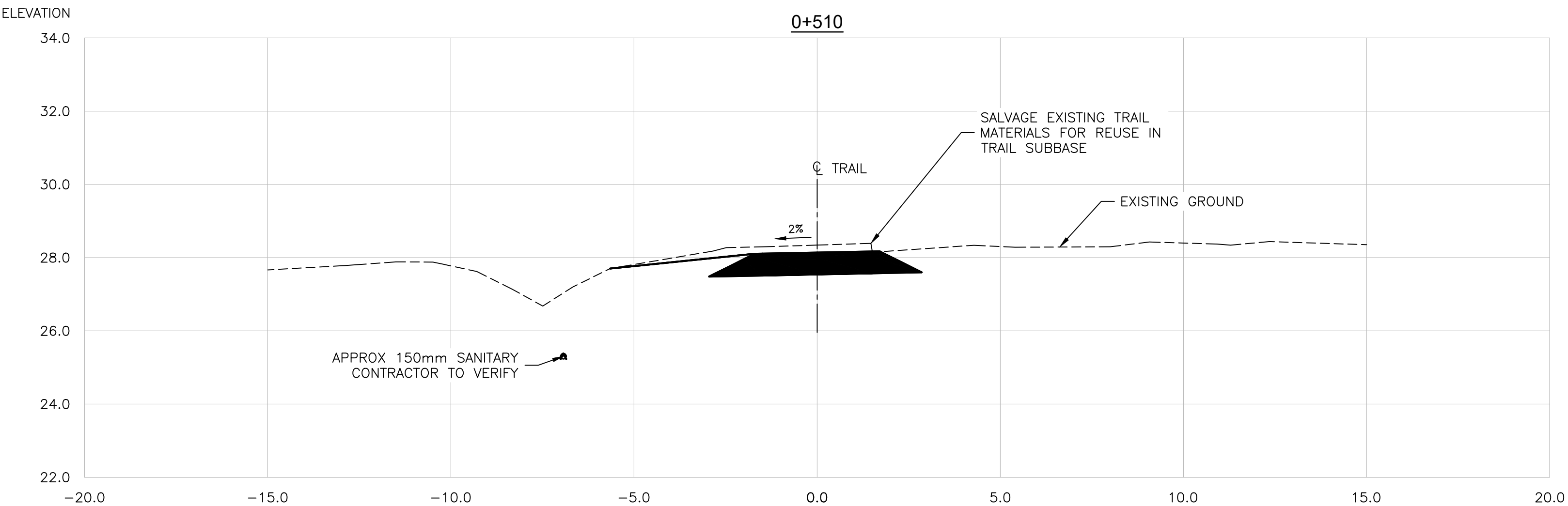
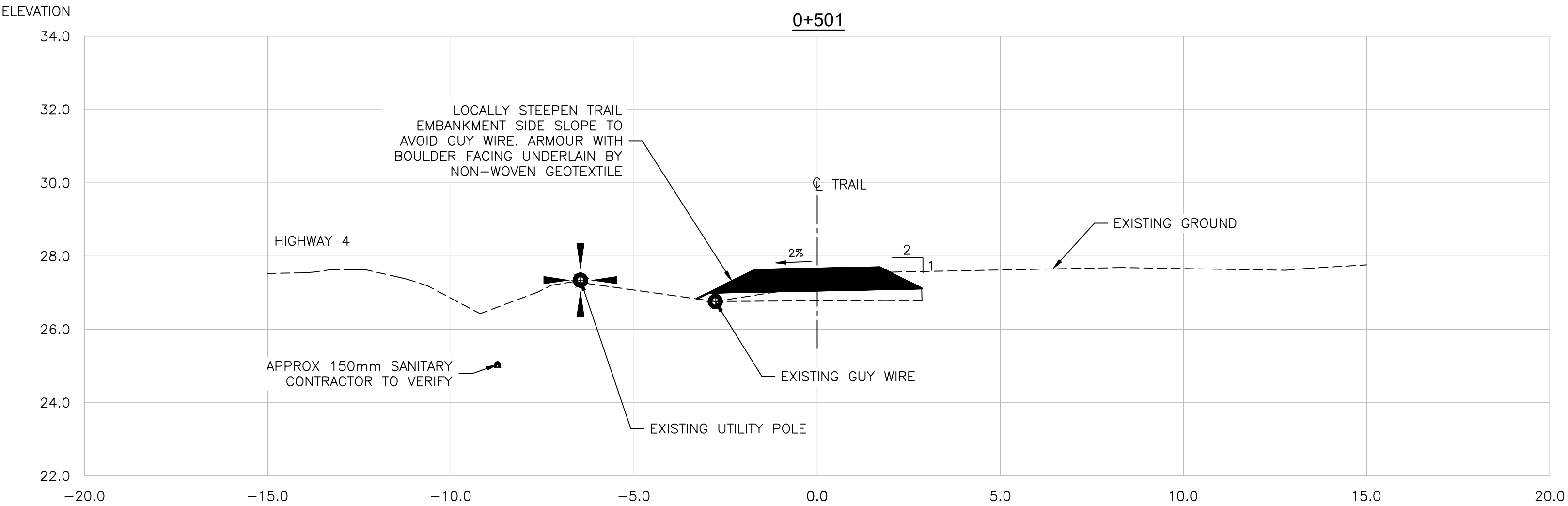




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1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION  
1:100 HOR — 1:100 VER




PARSONS

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

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑕᐱᓂᑦᑕᑦᑕ ᑕᐱᓂᑦᑕ**  
**(Ups-cheek ta-shee)**  
**“Going in the right**  
**direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

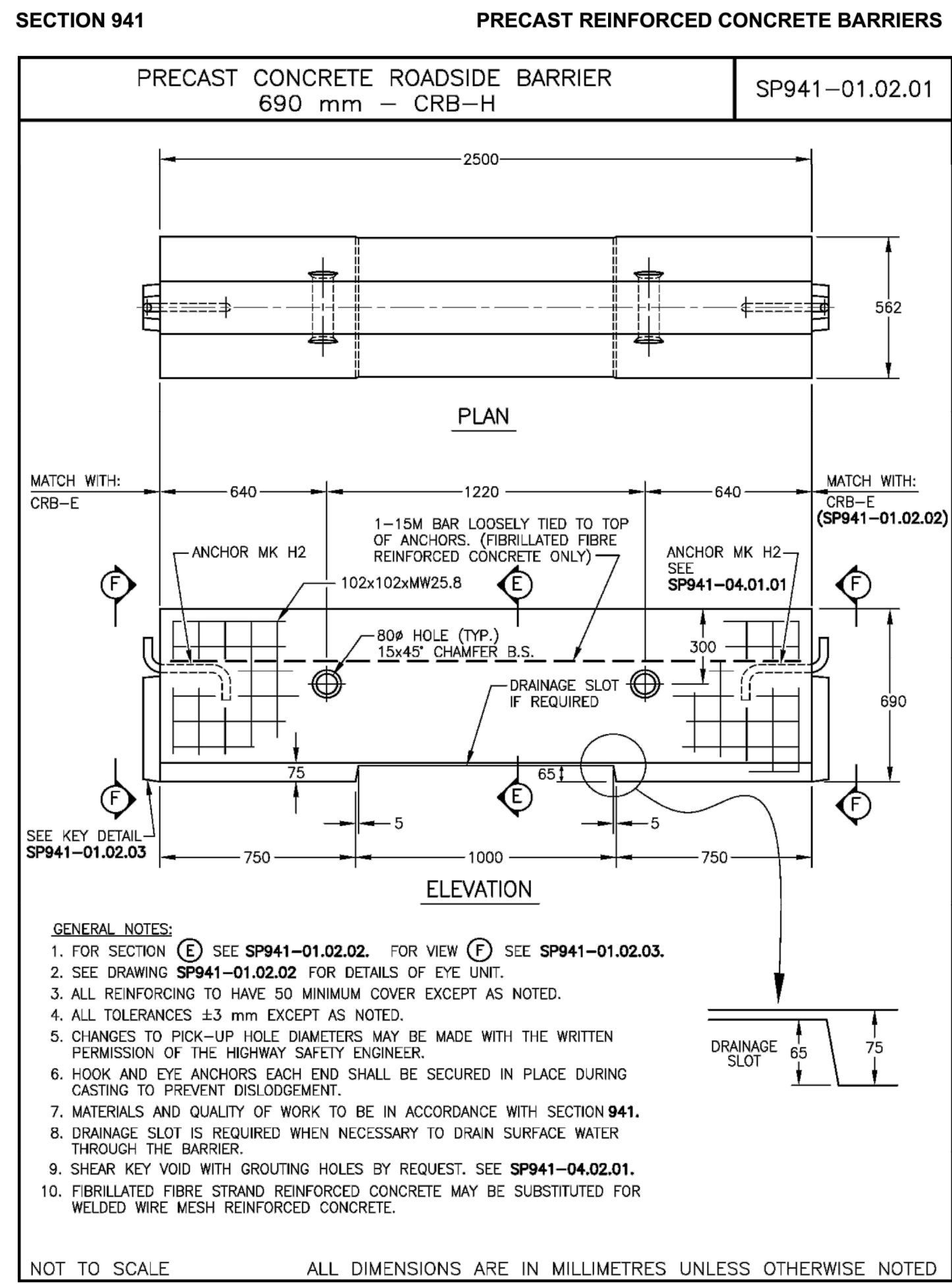
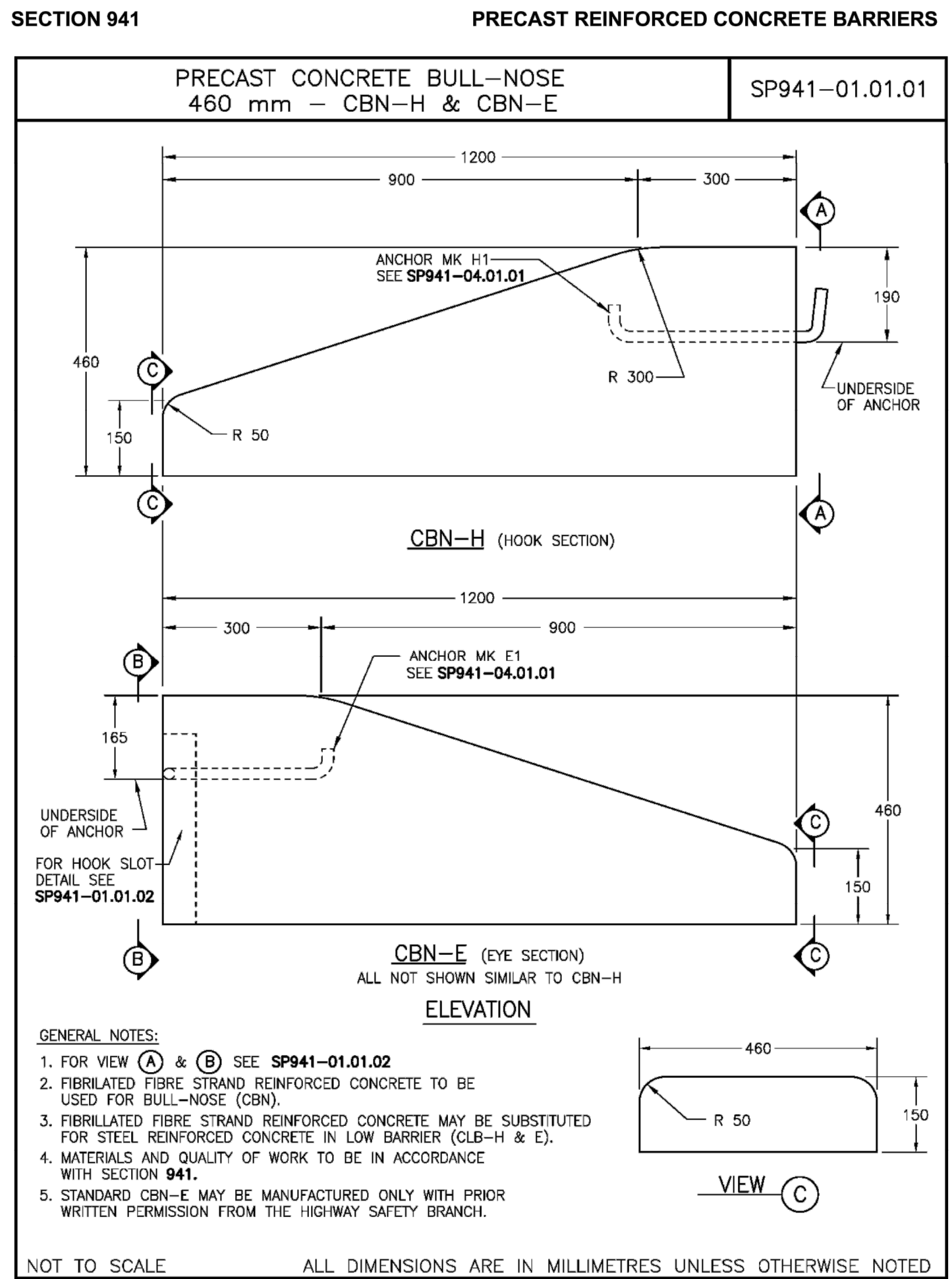
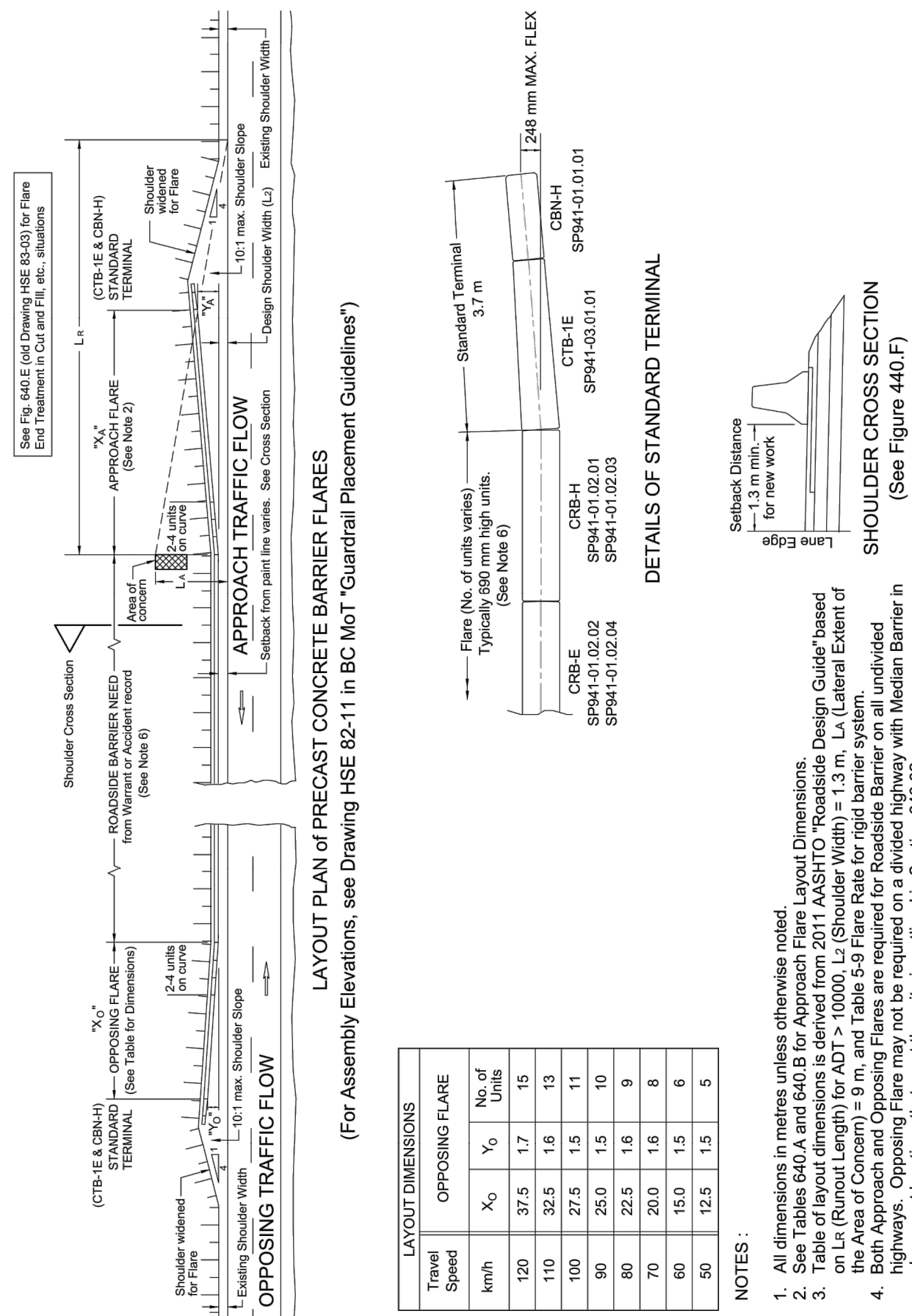
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**TRAIL SECTIONS**  
**STA 0+501 TO STA 0+510**

Project No./No. du projet <b>PCA #1522</b>	Sheet/ Feuille <b>X-24</b> OF	Revision no./ La Révision no. <b>0</b>
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Figure 640.C Standard Layout of Flares and Terminals for Concrete Roadside Barriers  
N.T.S. (old HSE 82-07A)



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet  
TOFINO  
PACIFIC RIM  
NATIONAL PARK RESERVE  
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(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”

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Drawn by/Dessiné par  
MICHAEL GIANG  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
WAYII AREA TRAIL DESIGN  
BARRIER DETAILS 1

Project No./No. du projet PCA #1522	Sheet/Feuille SD-01 OF	Revision no./La Révision no. 0
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TOFINO

PACIFIC RIM  
NATIONAL PARK RESERVE

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(Ups-cheek ta-shee)

“Going in the right direction on the trail”

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DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

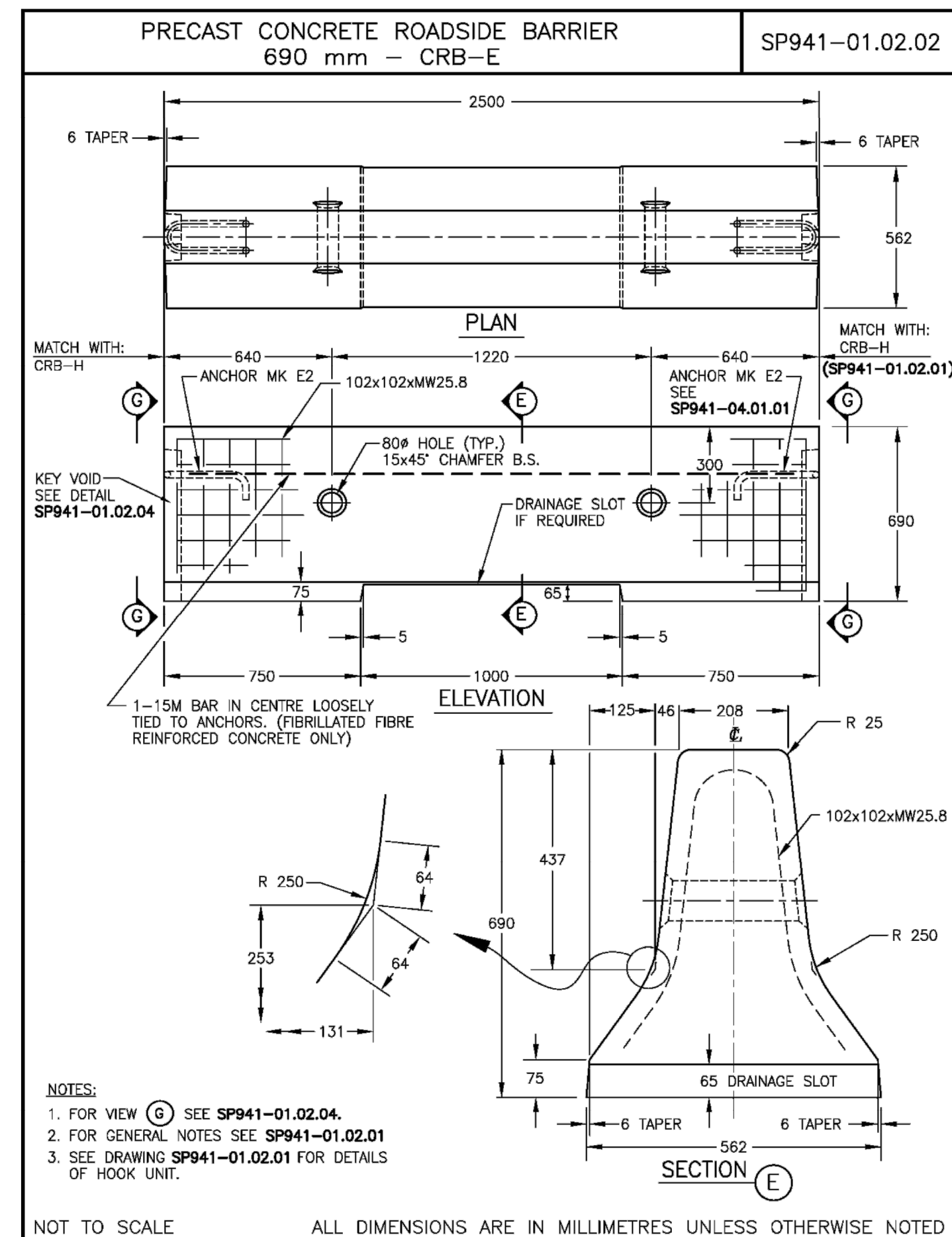
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WAYII AREA TRAIL DESIGN

BARRIER DETAILS 2

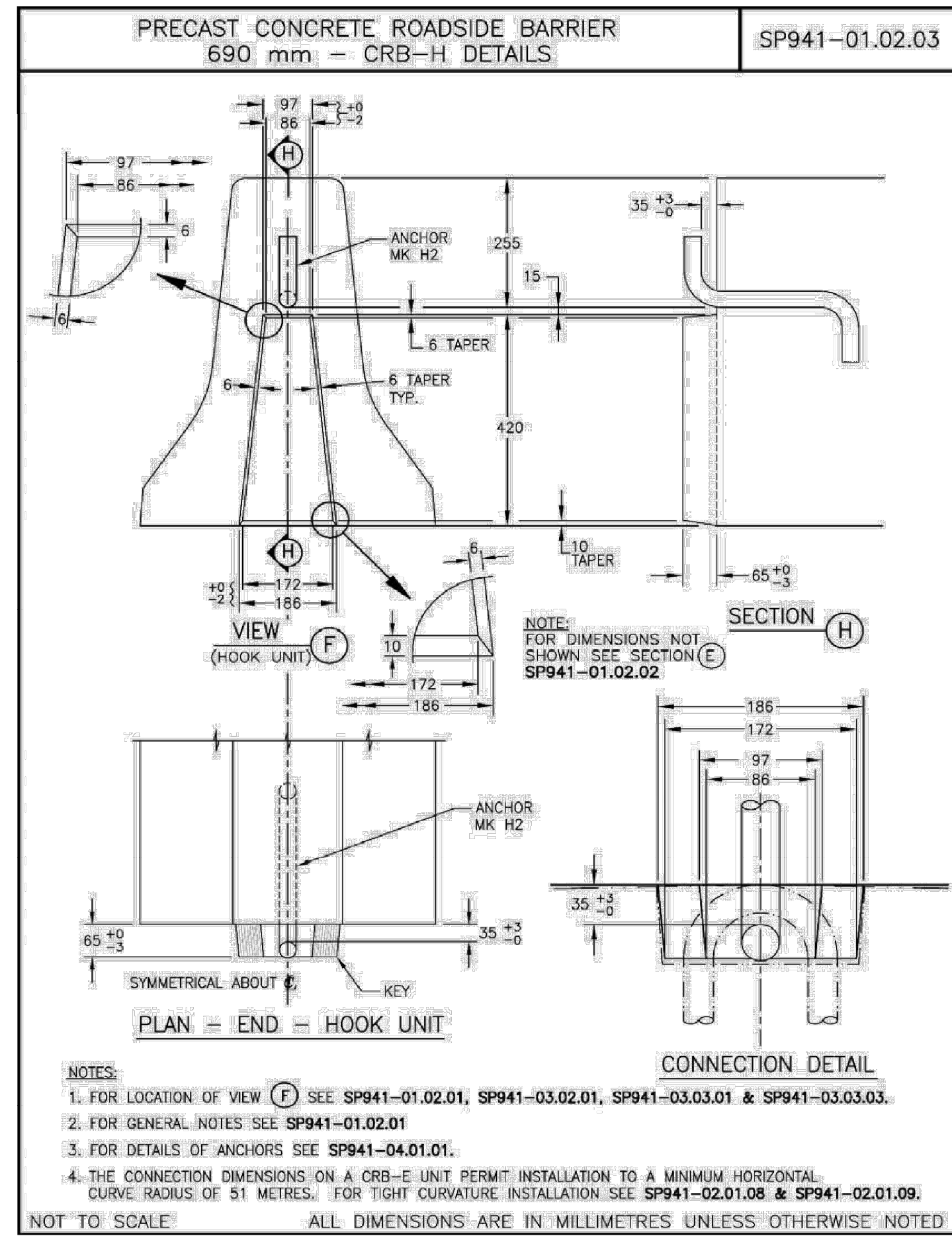
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SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



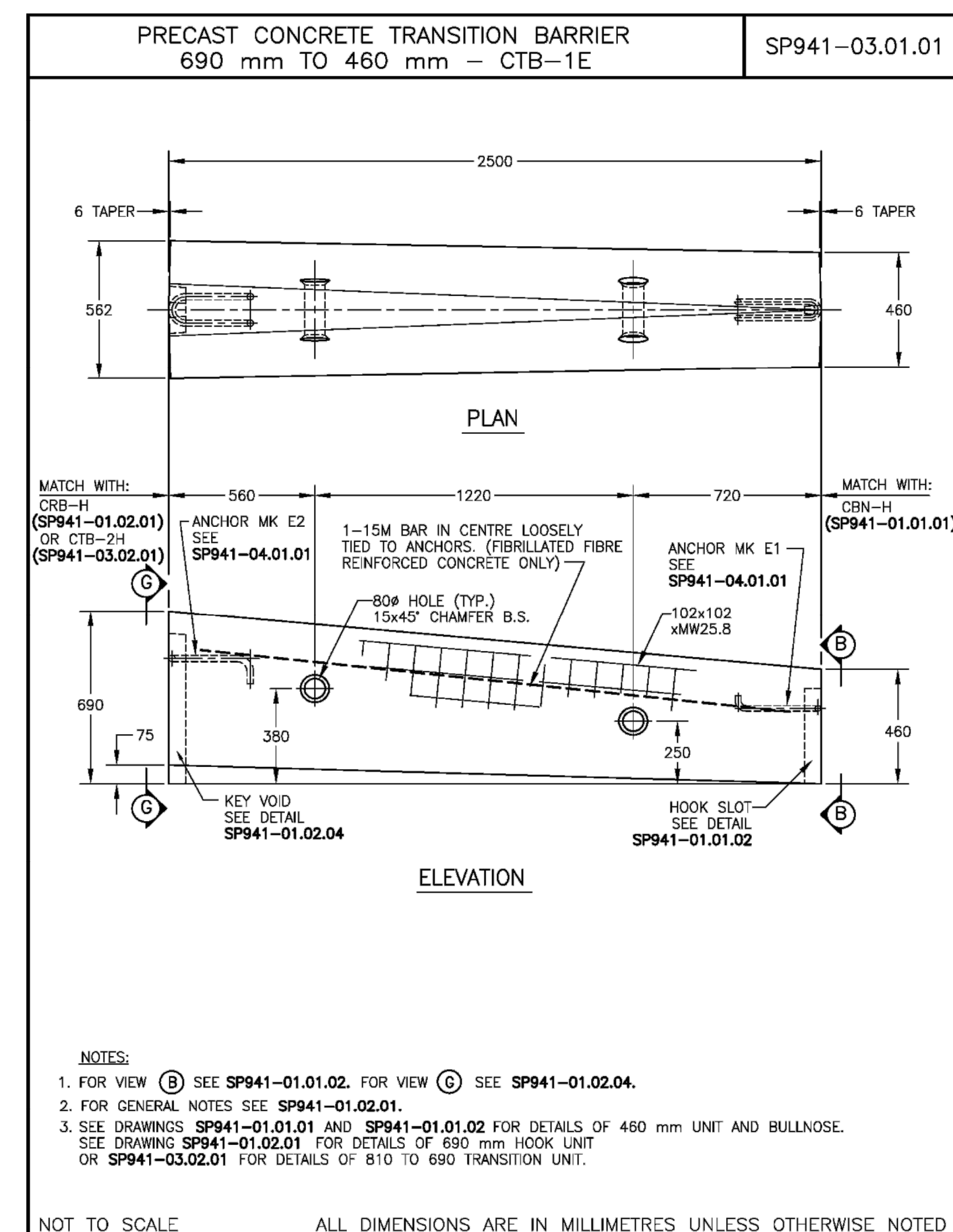
BC MoTI SS 2020 941 (7 of 30)  
Vol. 2 Page 408 of 452

SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



BC MoTI SS 2020 941 (8 of 30)  
Vol. 2 Page 409 of 452

SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



BC MoTI SS 2020 941 (21 of 30)  
Vol. 2 Page 422 of 452






PARSONS

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Revision/	Description/Description	Date/Date
Client/client		

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	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑕᐱᓂᑏᑏ ᑕᐱᓂᑏ**  
**(Ups-cheek ta-shee)**  
**“Going in the right**  
**direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

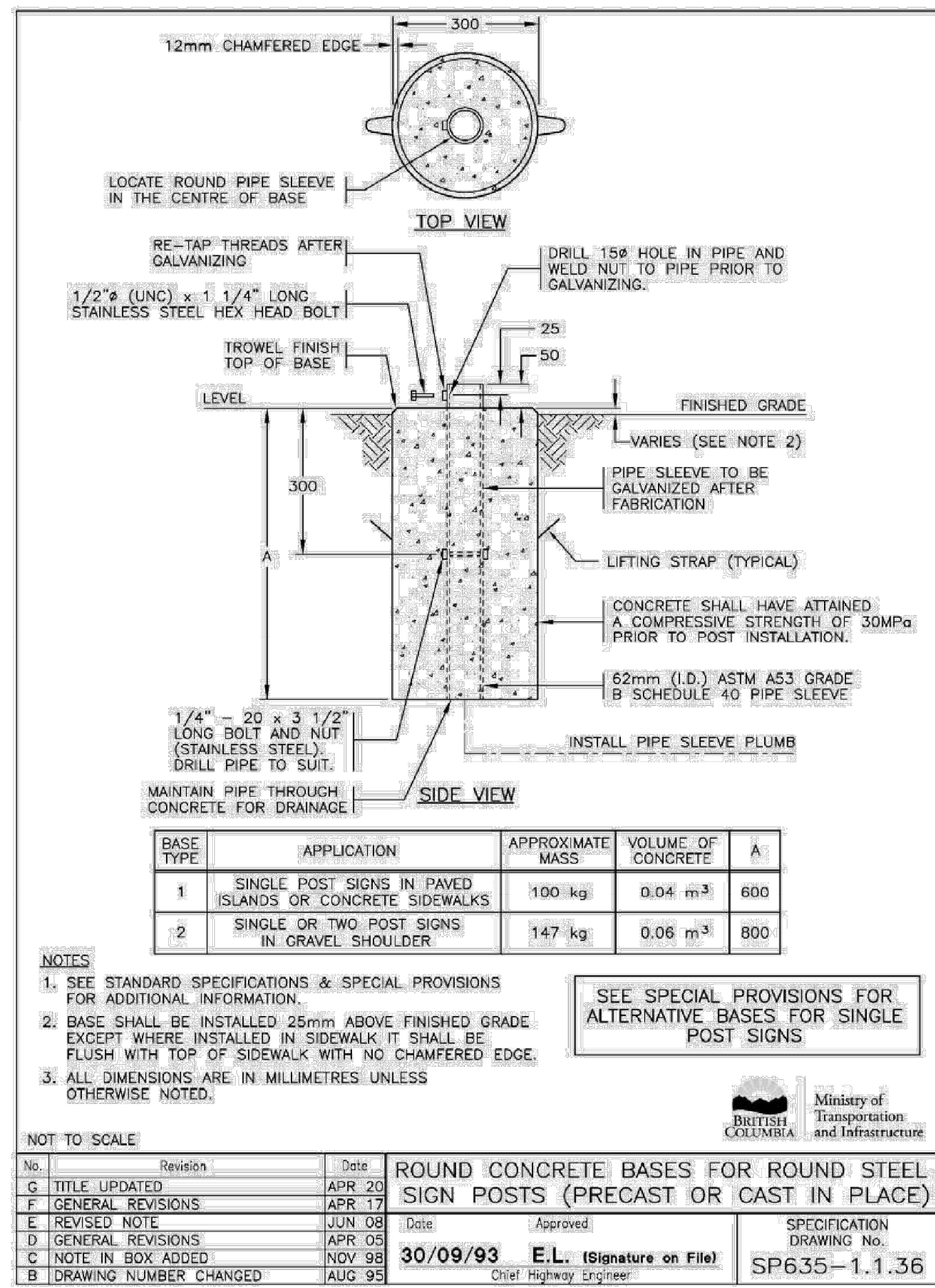
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**SIGN POST DETAILS**

Project No./No. du projet <b>PCA #1522</b>	Sheet / Feuille <b>SD-03</b> OF	Revision no./ La Révision no. <b>0</b>
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SECTION 635

ELECTRICAL AND SIGNING



BC MoTI

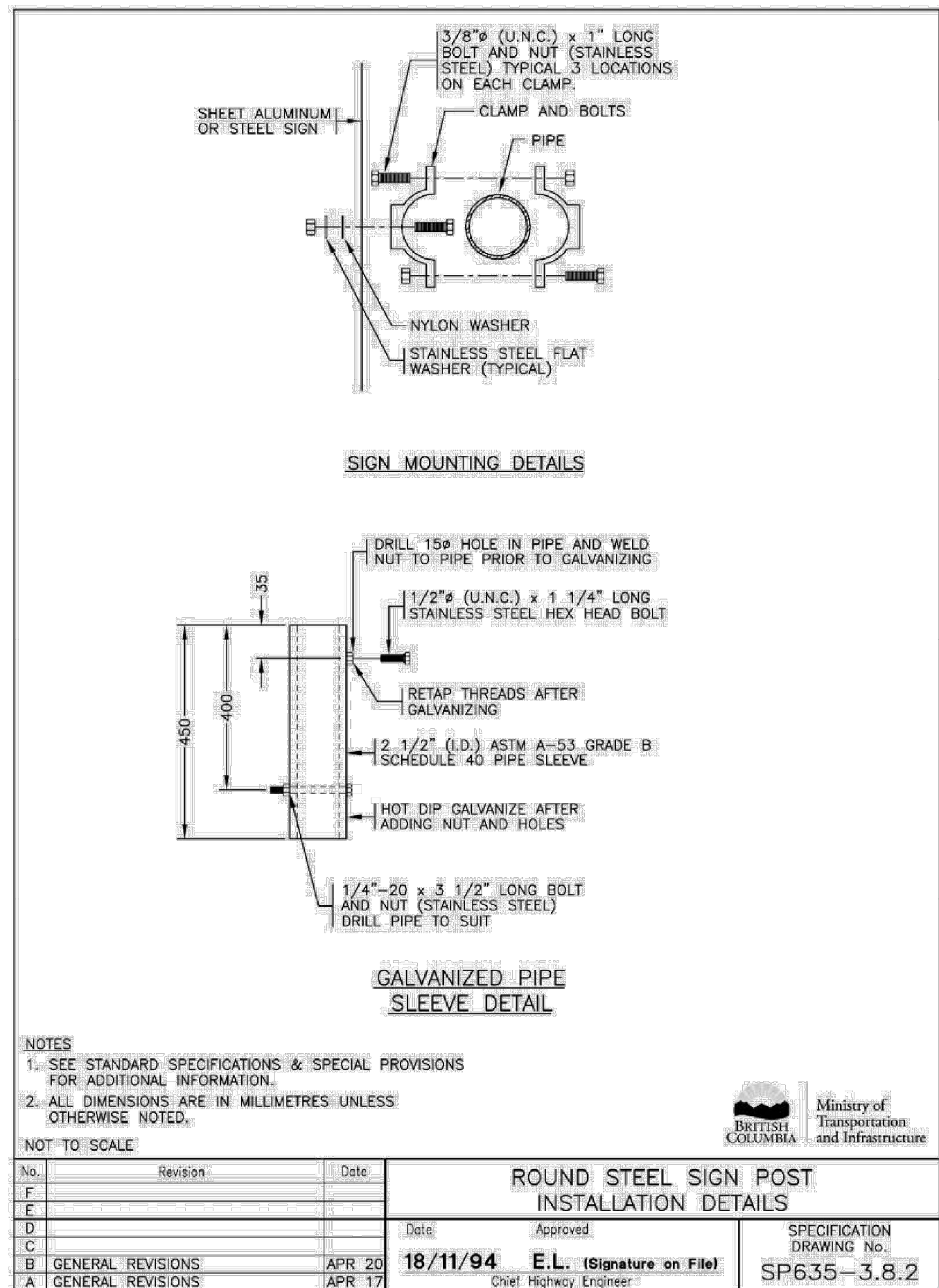
SS 2020

635 (54 of 277)

Vol. 2 Page 67 of 452

SECTION 635

ELECTRICAL AND SIGNING

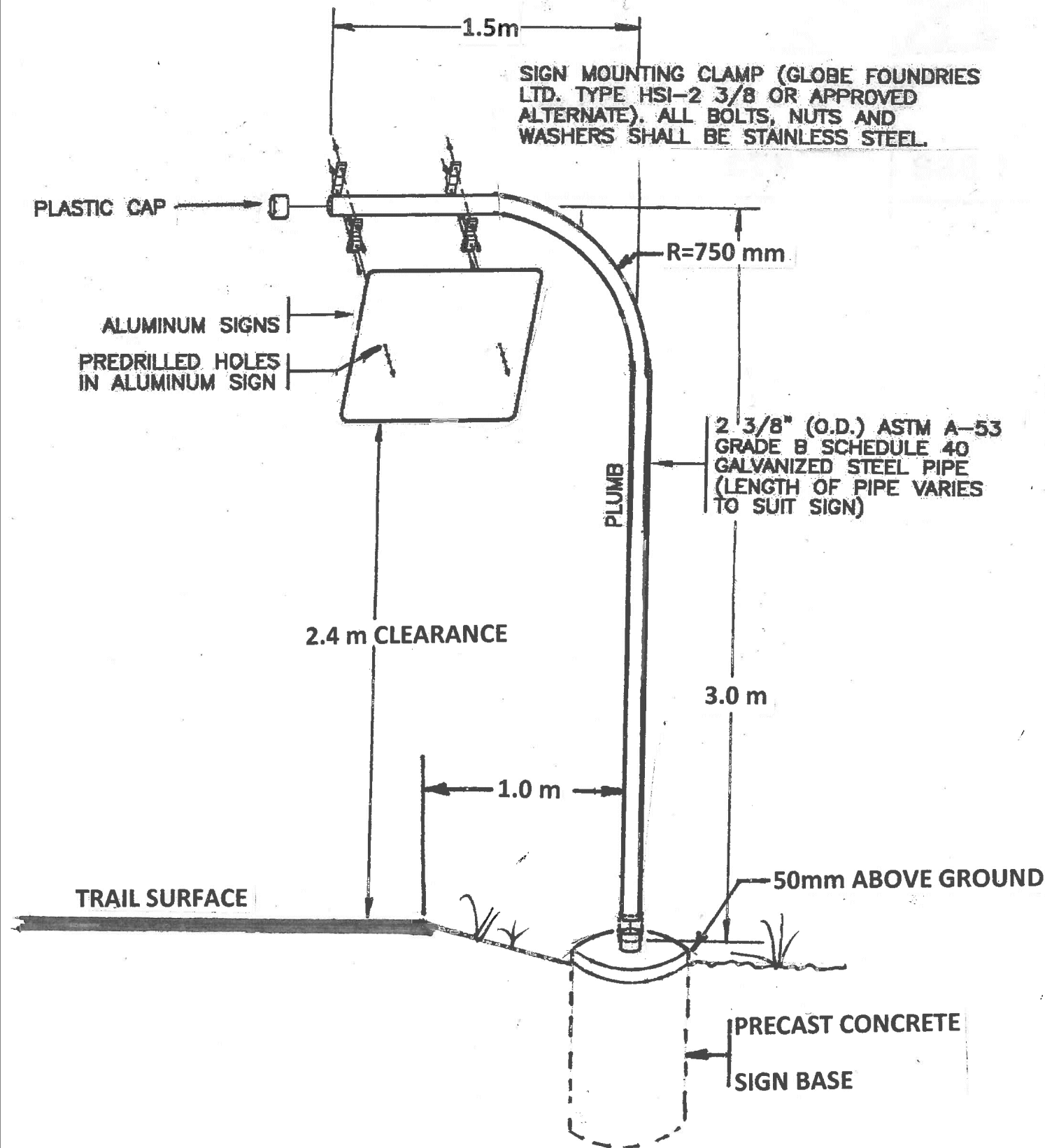


BC MoTI

SS 2020

635 (271 of 277)

Vol. 2 Page 284 of 452

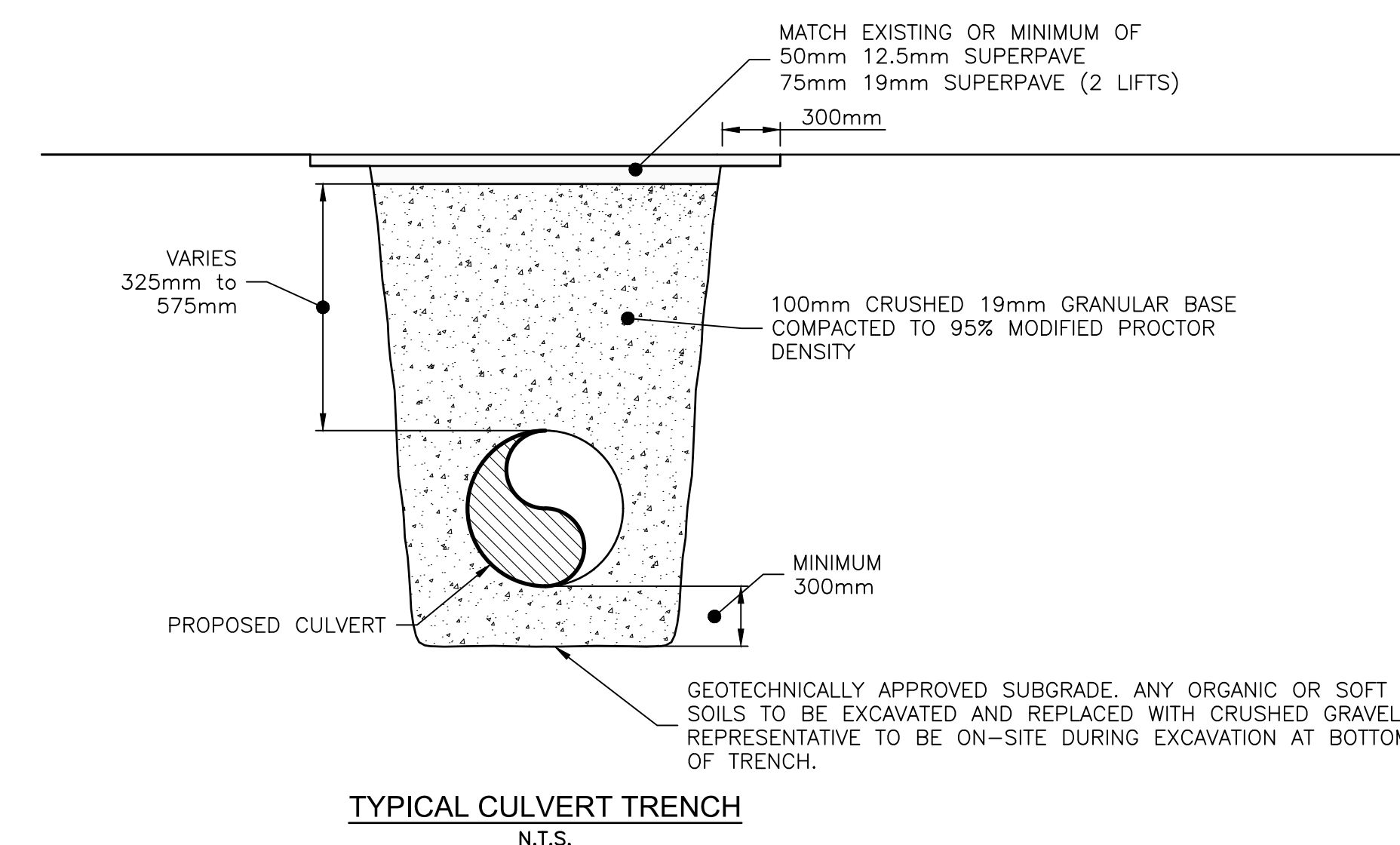
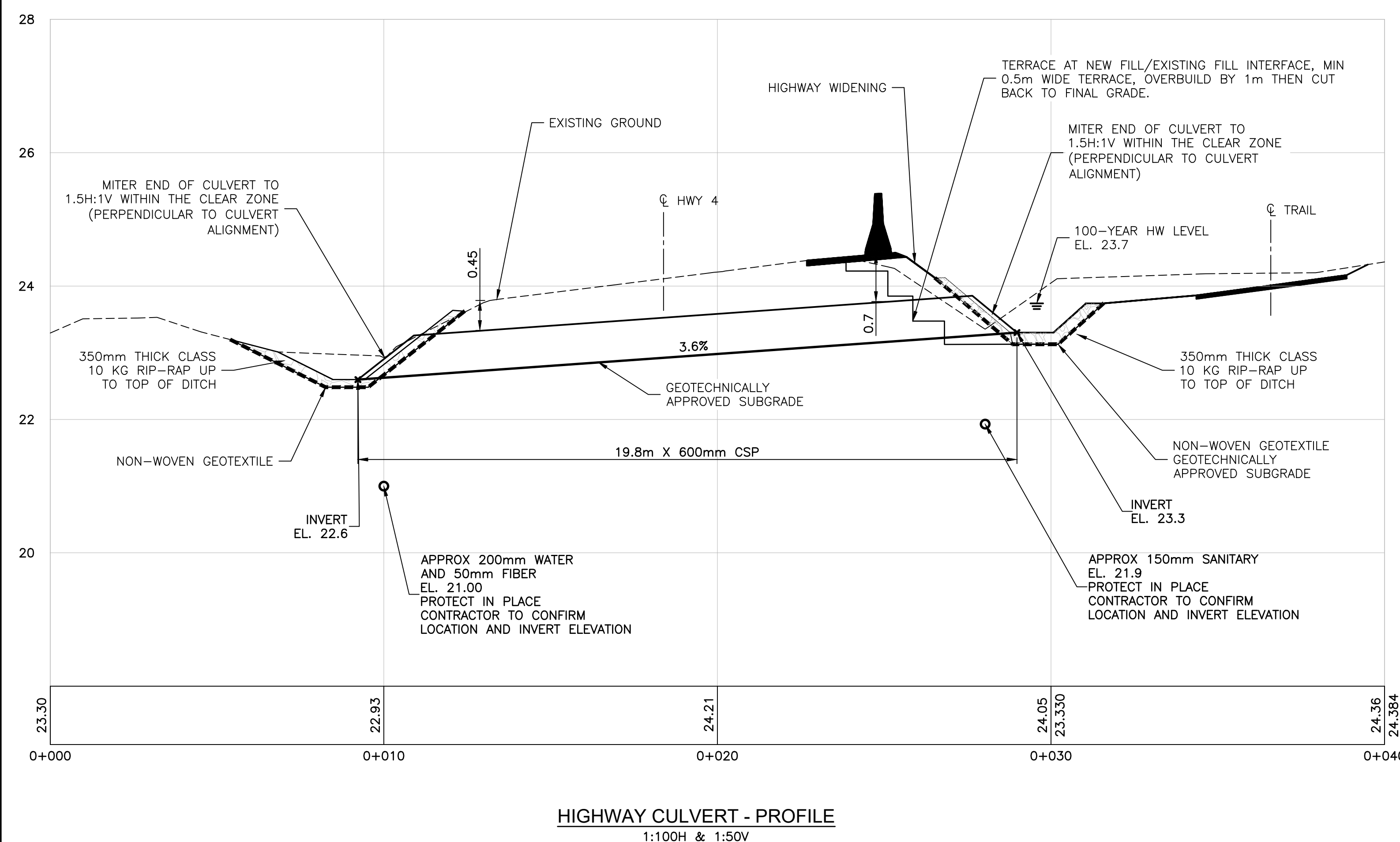
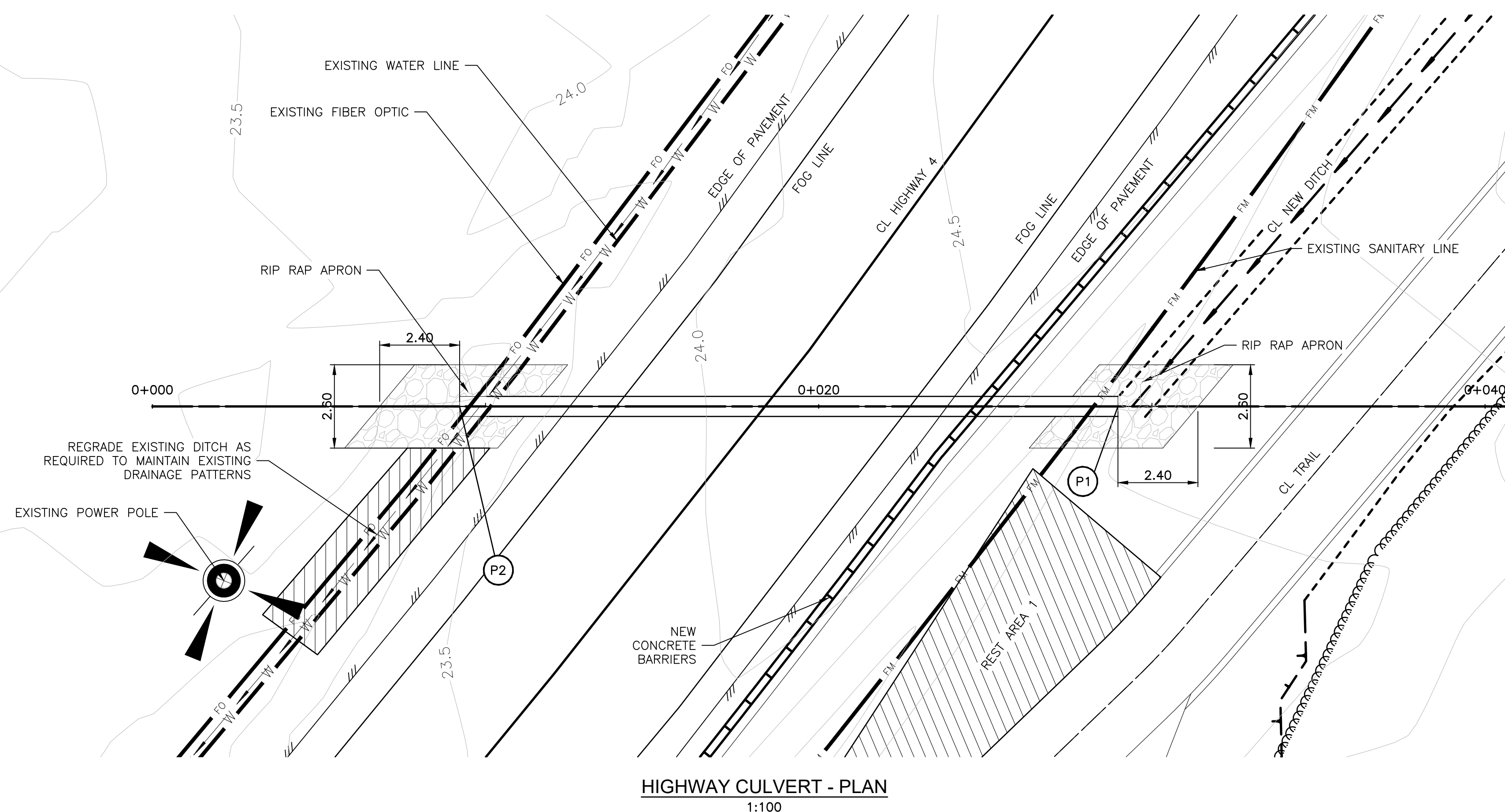







**PARSONS**

POINT TABLE			
No.	NORTHING	EASTING	ELEVATION
P1	5438197.69	300088.33	23.30
P2	5438216.01	300080.91	22.59



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0	ISSUED FOR TENDER	21/02/18
<b>Revision/ Date</b>	<b>Description/Description</b>	<b>Date/Date</b>

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

Project title/Titre du projet

TOFINO

PACIFIC RIM  
NATIONAL PARK RESERVE

ʔapsčik ʔasii  
(Ups-cheek ta-shee)  
“Going in the right  
direction on the trail”

Consultant Signature Only	
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Designed by/Concept par  
NAVRATNA SHARMA / ANDREW KWIATKOWSKI

Drawn by/Dessine par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin

**WAYII AREA TRAIL DESIGN**

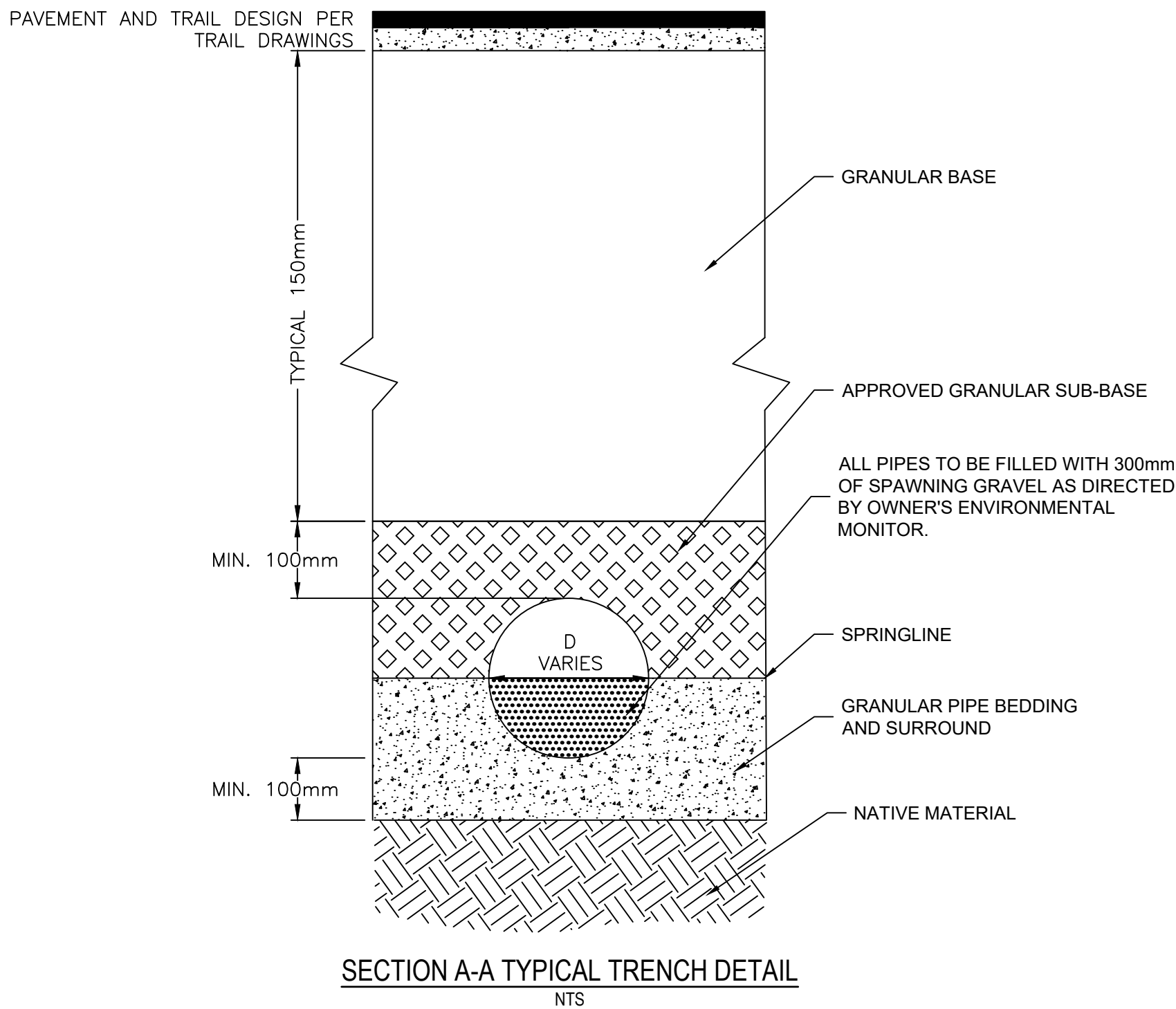
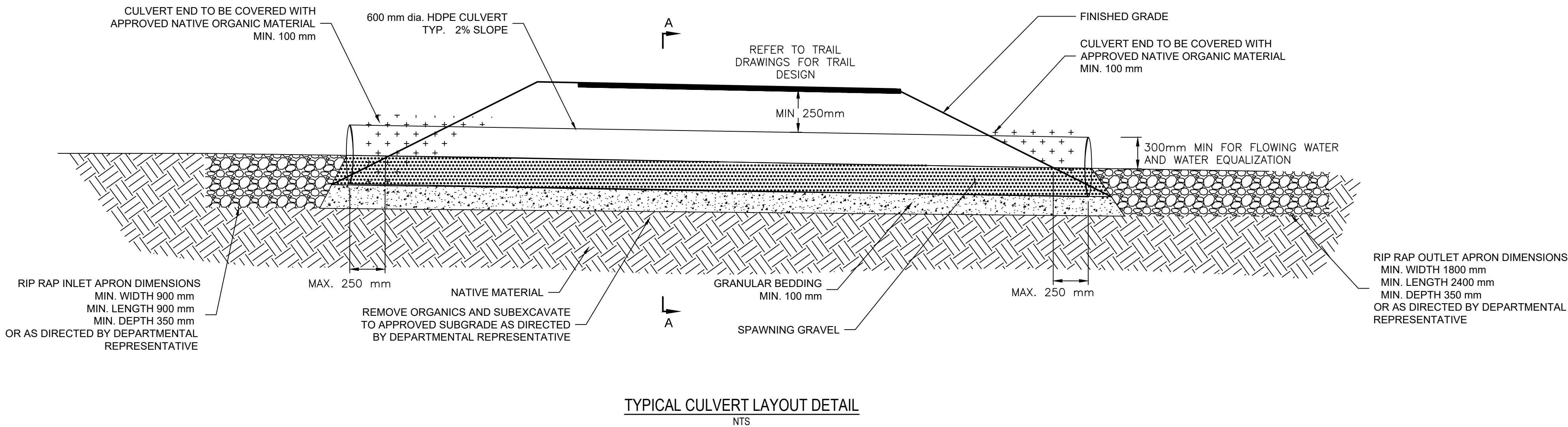
**HIGHWAY CULVERT PLAN PROFILE**  
**(CULVERT 4)**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	D-01	0
	OF	



NOTES:

1. END OF CULVERT TO BE MAXIMUM 0.25 m FROM TOE OF SLOPE. LENGTH OF CULVERT MAY VARY ACCORDINGLY.
2. REMOVE ORGANICS UNDER PROPOSED CULVERT ALIGNMENT AND SUBEXCAVATE TO APPROVED SUBGRADE AS DIRECTED BY GEOTECHNICAL ENGINEER TO PLACE GRANULAR BEDDING.
3. MINIMUM 100 mm OF GRANULAR BEDDING TO SUPPORT CULVERT PER TYPICAL TRENCH DETAIL.
4. RIP RAP APRON TO BE CLASS 10 RIP RAP AT MINIMUM 300mm DEEP AT APRON AND AROUND CULVERT. APPROVED FISHERIES GRAVEL TO BE USED IN THE STREAMBED WHERE REQUIRED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
5. COVER PROTRUDING CULVERT END WITH FILL AND VEGETATE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
6. FOR EROSION AND SEDIMENT ISSUES, INSTALL EROSION CONTROL BLANKETS WHERE NEEDED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNERS'S ENVIRONMENTAL MONITOR.
7. IN-STREAM WORKS MAY PROCEED ONLY UNDER DFO APPROVAL. PERMIT TO BE SECURED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR.



PARSONS

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Revision/	Description/Description	Date/Date
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Western and Northern Region	Ouest et Nord du Canada

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**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑕᐱᓂᑦᑕᑦᑕ ᑕᐱᓂᑦ**  
**(Ups-cheek ta-shee)**  
**“Going in the right**  
**direction on the trail”**

Consultant Signature Only

Designed by/Concept par  
NAVRATNA SHARMA / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**TYPICAL CULVERT DETAIL**

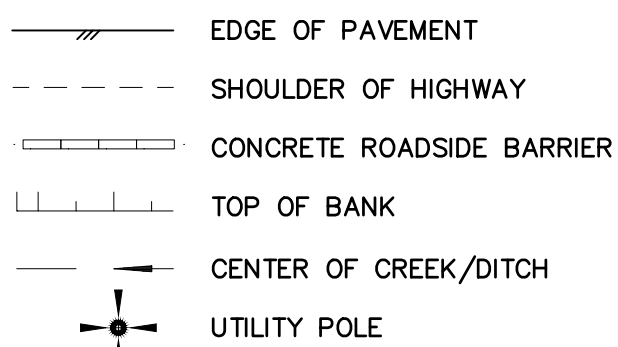
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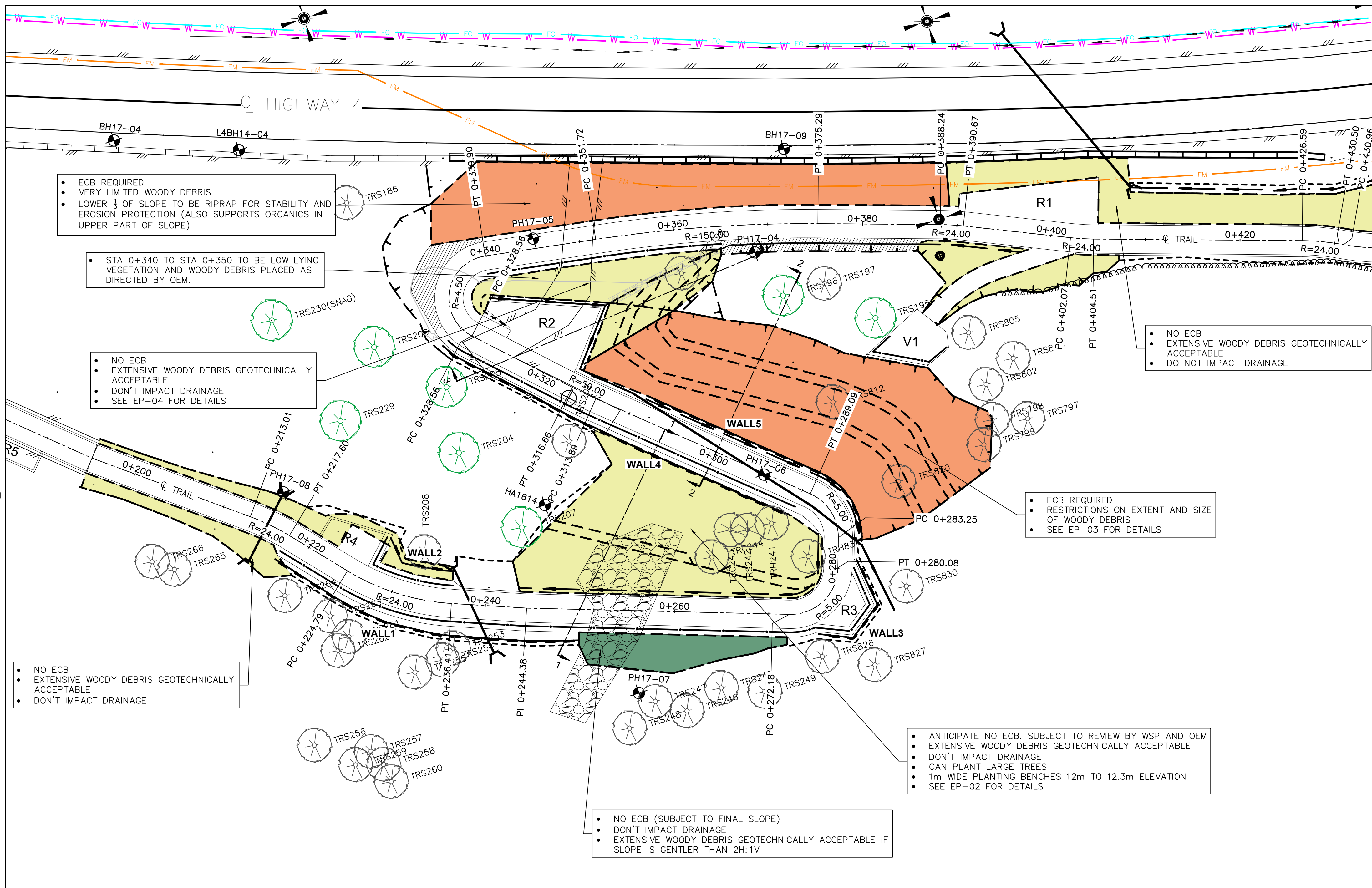
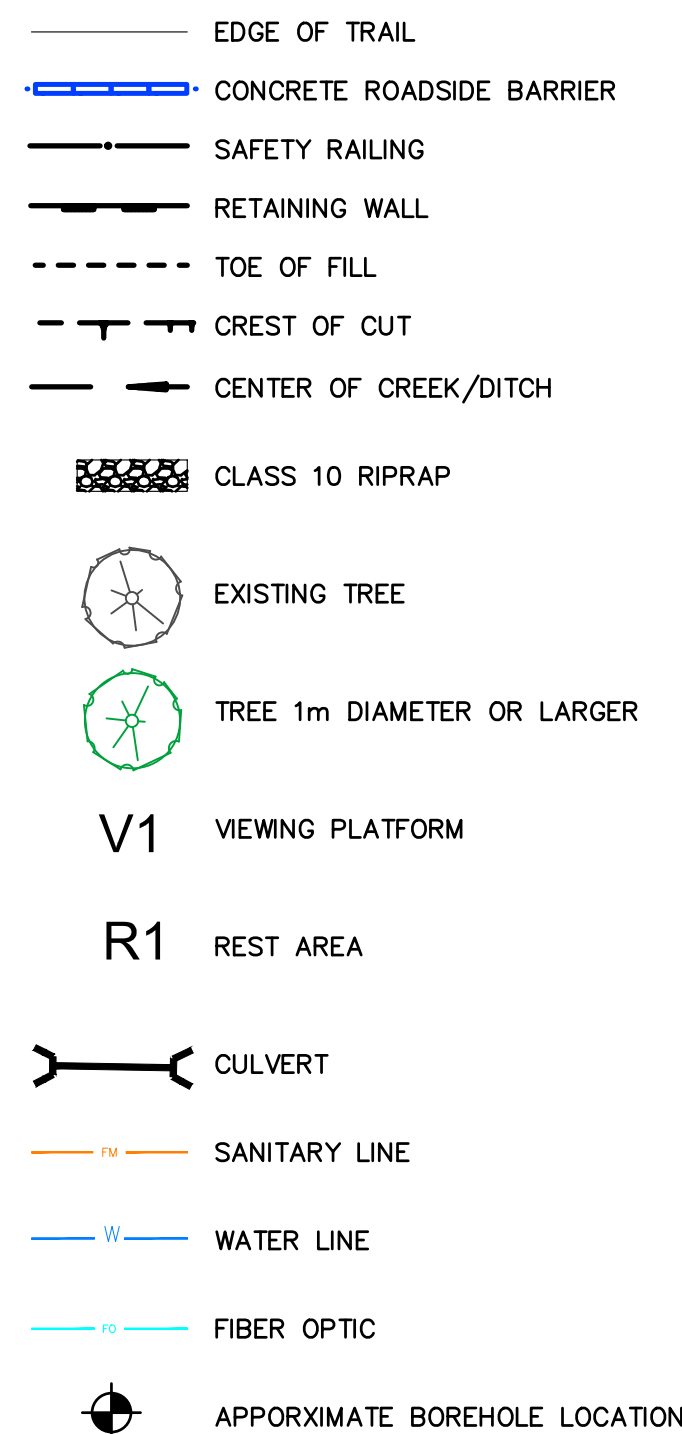


## LEGEND

## EXISTING



## PROPOSED



## PLAN

1:250

## NOTES:

1. SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
2. THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
3. UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
4. ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 15CM DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
5. POSTED HIGHWAY SPEED 80 km/hr.
6. BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT - PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.

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

Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ (Ups-cheek ta-shee) "Going in the right direction on the trail"
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Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKIDrawn by/Dessiné par  
MICHAEL GIANGPCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

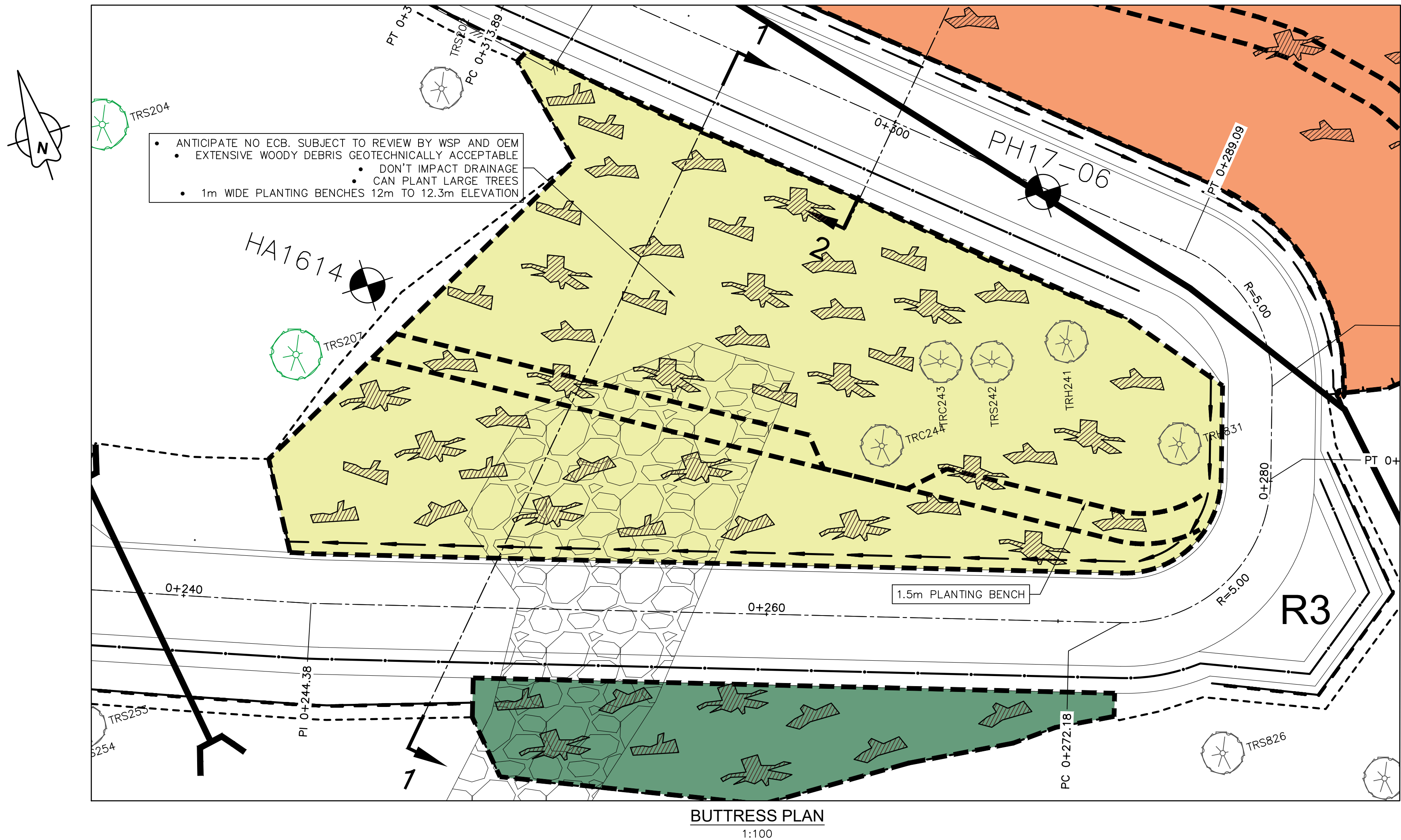
ENVIRONMENTAL SURFACE  
PROTECTION PLAN  
OVERALL

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	EN-01 OF	0

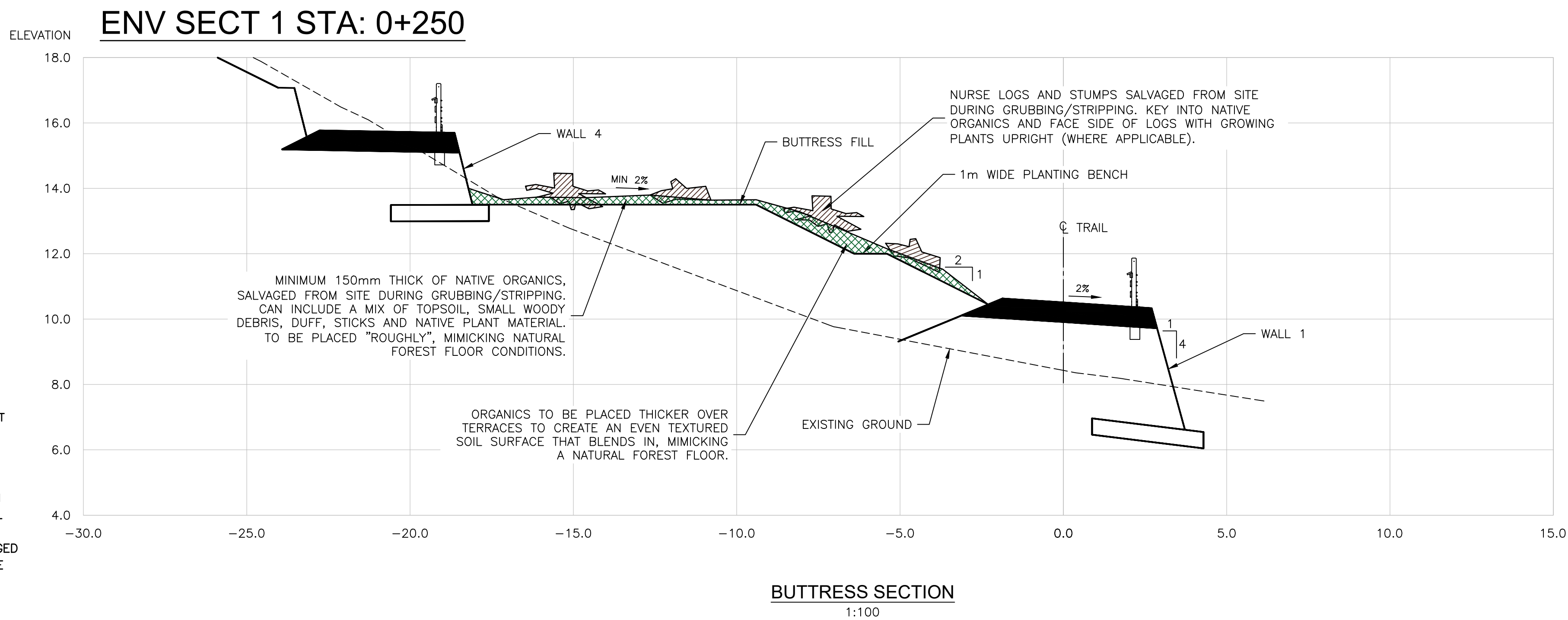




- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
  - SHOULDER OF HIGHWAY
  - CONCRETE ROADSIDE BARRIER
  - TOP OF BANK
  - CENTER OF CREEK/DITCH
  - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
  - CONCRETE ROADSIDE BARRIER
  - SAFETY RAILING
  - RETAINING WALL
  - TOE OF FILL
  - CREST OF CUT
  - CENTER OF CREEK/DITCH
  - CLASS 10 RIPRAP
  - EXISTING TREE
  - TREE 1m DIAMETER OR LARGER
  - V1 VIEWING PLATFORM
  - R1 REST AREA
  - CULVERT
  - SANITARY LINE
  - WATER LINE
  - FIBER OPTIC
  - APPROXIMATE BOREHOLE LOCATION



- NOTES:**
- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
  - THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
  - UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
  - ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 15CM DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
  - POSTED HIGHWAY SPEED 80 km/hr.
  - BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT – PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.



PARSONS

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0	ISSUED FOR TENDER	21/02/18
Revision/	Description/Description	Date/Date
Revision		

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**ᑭᐱᓂᑦᑕᑦᑭ ᑭᐱᓂᑦᑕ**  
**(Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**ENVIRONMENTAL SURFACE PROTECTION PLAN**  
**BUTTRISS DETAILS**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>EN-02</b> OF	Revision no./La Révision no. <b>0</b>
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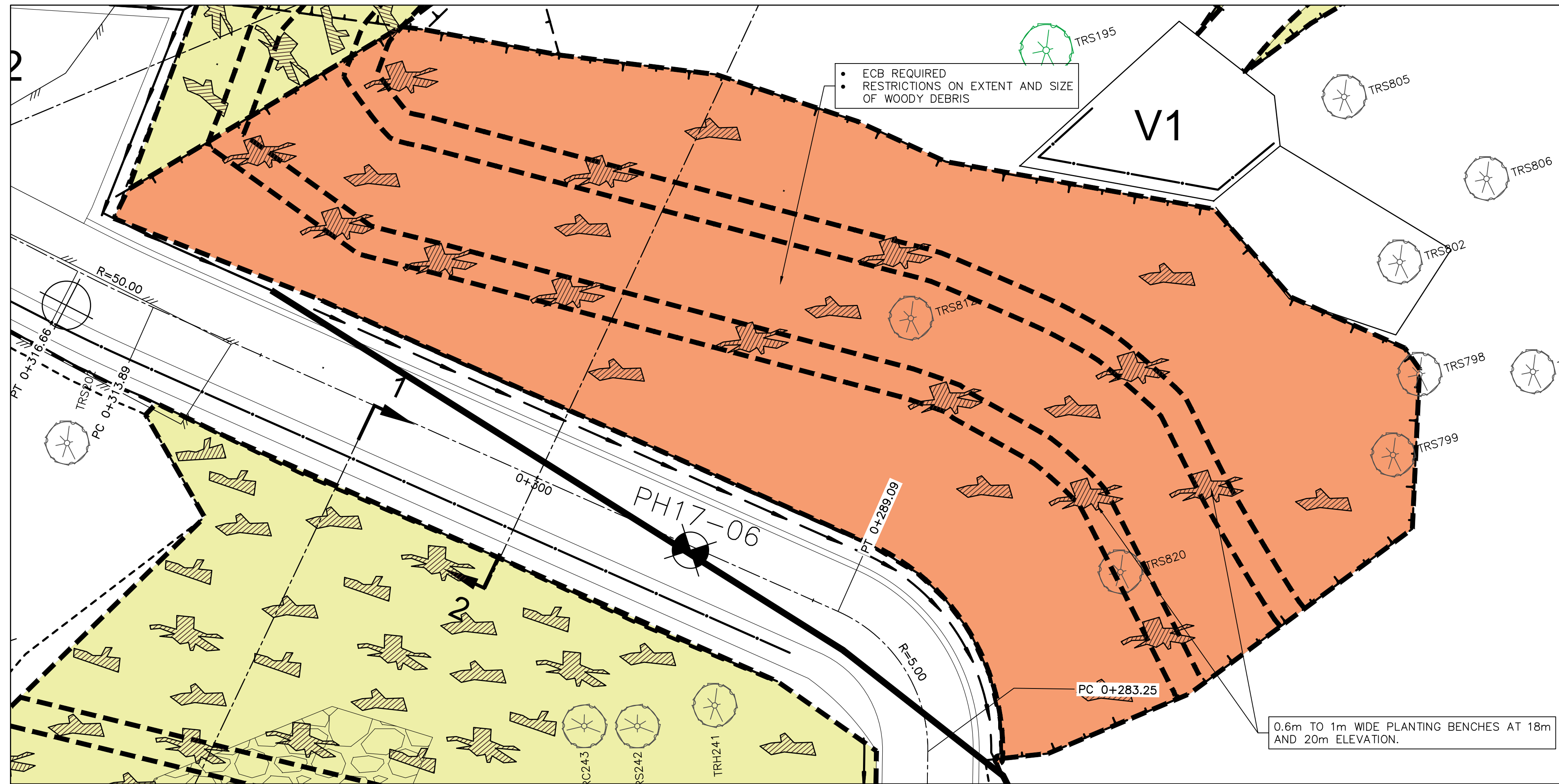
# LEGEND

## EXISTING

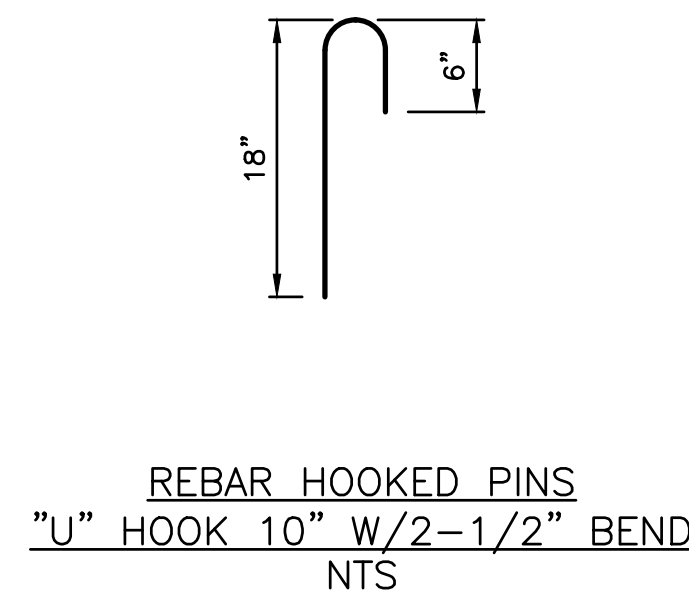
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- SHOULDER OF HIGHWAY
- CONCRETE ROADSIDE BARRIER
- TOP OF BANK
- CENTER OF CREEK/DITCH
- UTILITY POLE

## PROPOSED

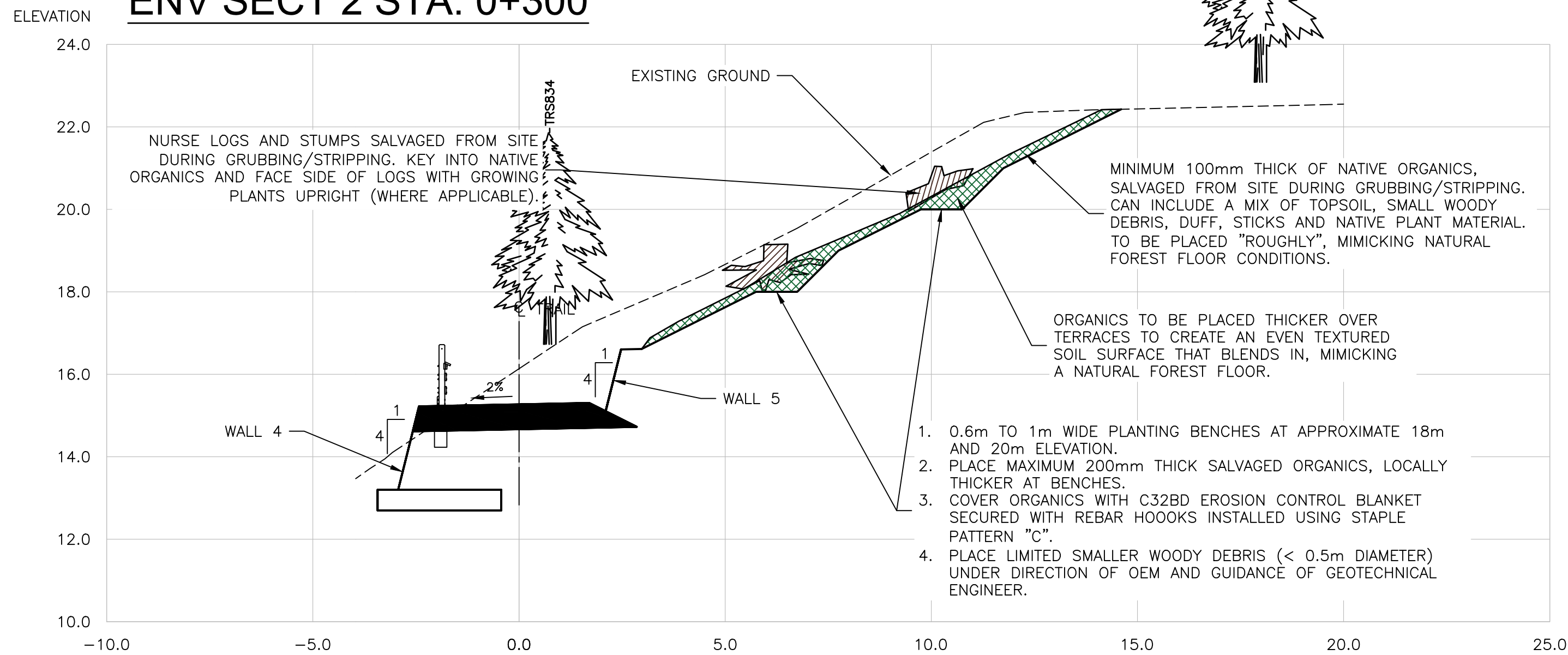
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MID SLOPE PLAN  
1:100



## ENV SECT 2 STA: 0+300



MID SLOPE SECTION  
1:100

## NOTES:

- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
- THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
- CONTRACTOR MUST EMPLOY METHODS THAT PROTECT MATURE TREES (>500mm) IN THE WORK AREA TO AVOID ADDITIONAL REMOVALS, OR DAMAGE TO LIMBS AND ROOT SYSTEMS.
- UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
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PARSONS

wsp

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Revision/	Description/Description	Date/Date
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Client/client

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

Project title/Titre du projet  
**TOFINO**  
**PACIFIC RIM**  
**NATIONAL PARK RESERVE**  
**ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ**  
**(Ups-cheek ta-shee)**  
**"Going in the right**  
**direction on the trail"**

Consultant Signature Only

Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**

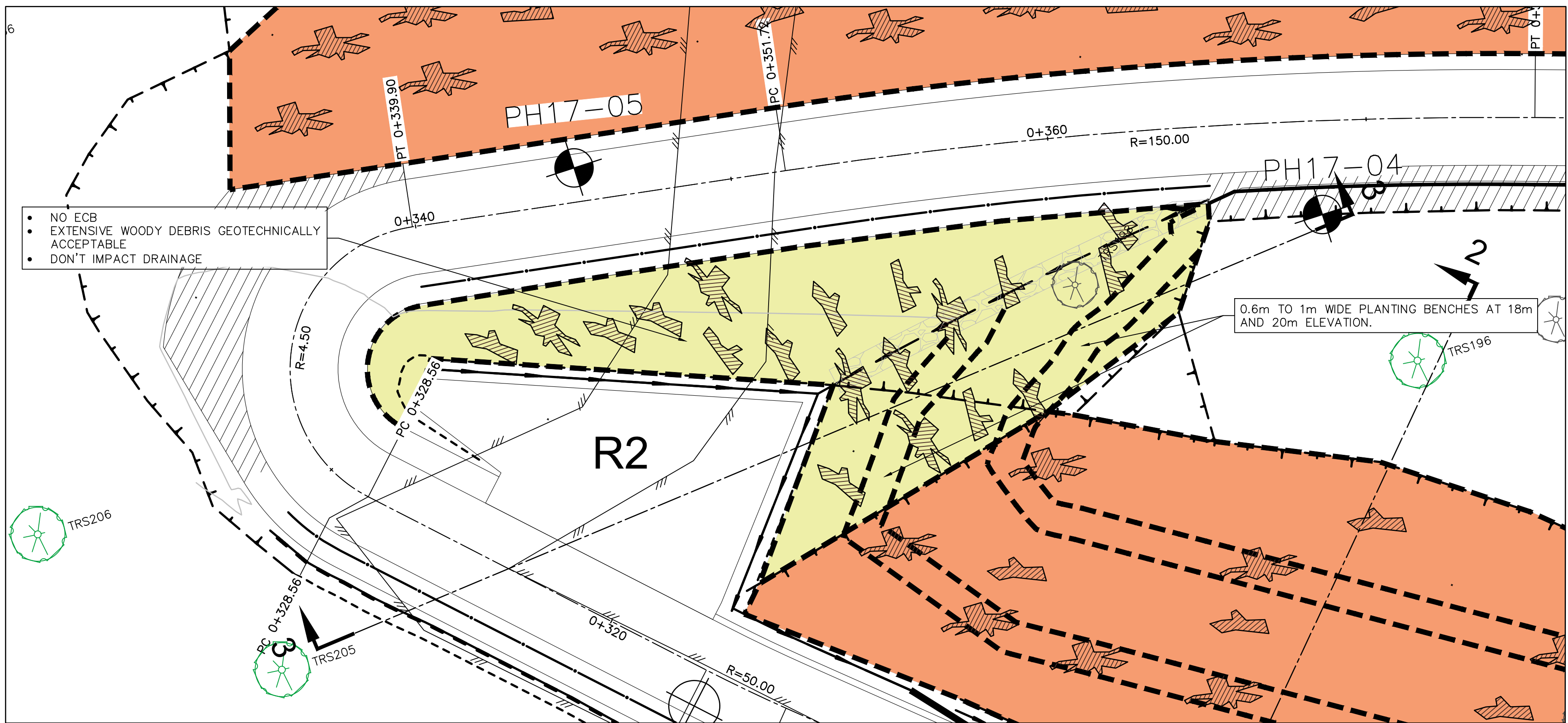
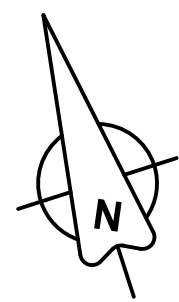
**ENVIRONMENTAL SURFACE**  
**PROTECTION PLAN**  
**MID SLOPE DETAILS**

Project No./No. du projet <b>PCA #1522</b>	Sheet/ Feuille <b>EN-03</b> OF	Revision no./ La Révision no. <b>0</b>
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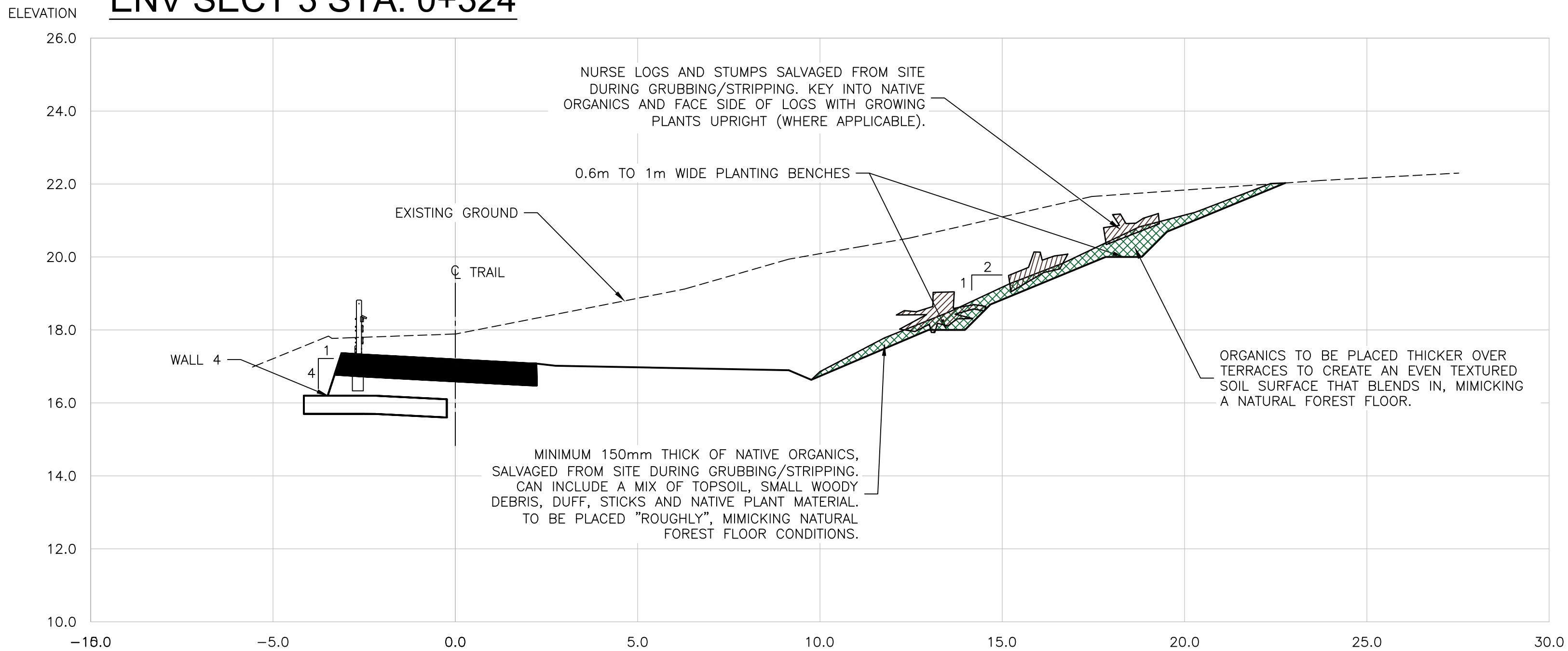


- LEGEND**
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- EDGE OF PAVEMENT
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  - TOP OF BANK
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  - WATER LINE
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  - APPROXIMATE BOREHOLE LOCATION



**REST AREA 2 PLAN**  
1:100

**ENV SECT 3 STA: 0+324**



**REST AREA 2 SECTION**  
1:100

- NOTES:**
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**PARSONS**

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

Project title/Titre du projet	TOFINO
PACIFIC RIM NATIONAL PARK RESERVE	
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(Ups-cheek ta-shee)	
“Going in the right direction on the trail”	

Consultant Signature Only
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Designed by/Concept par	DARRYL FUREY / ANDREW KWIATKOWSKI
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Drawn by/Dessiné par	MICHAEL GIANG
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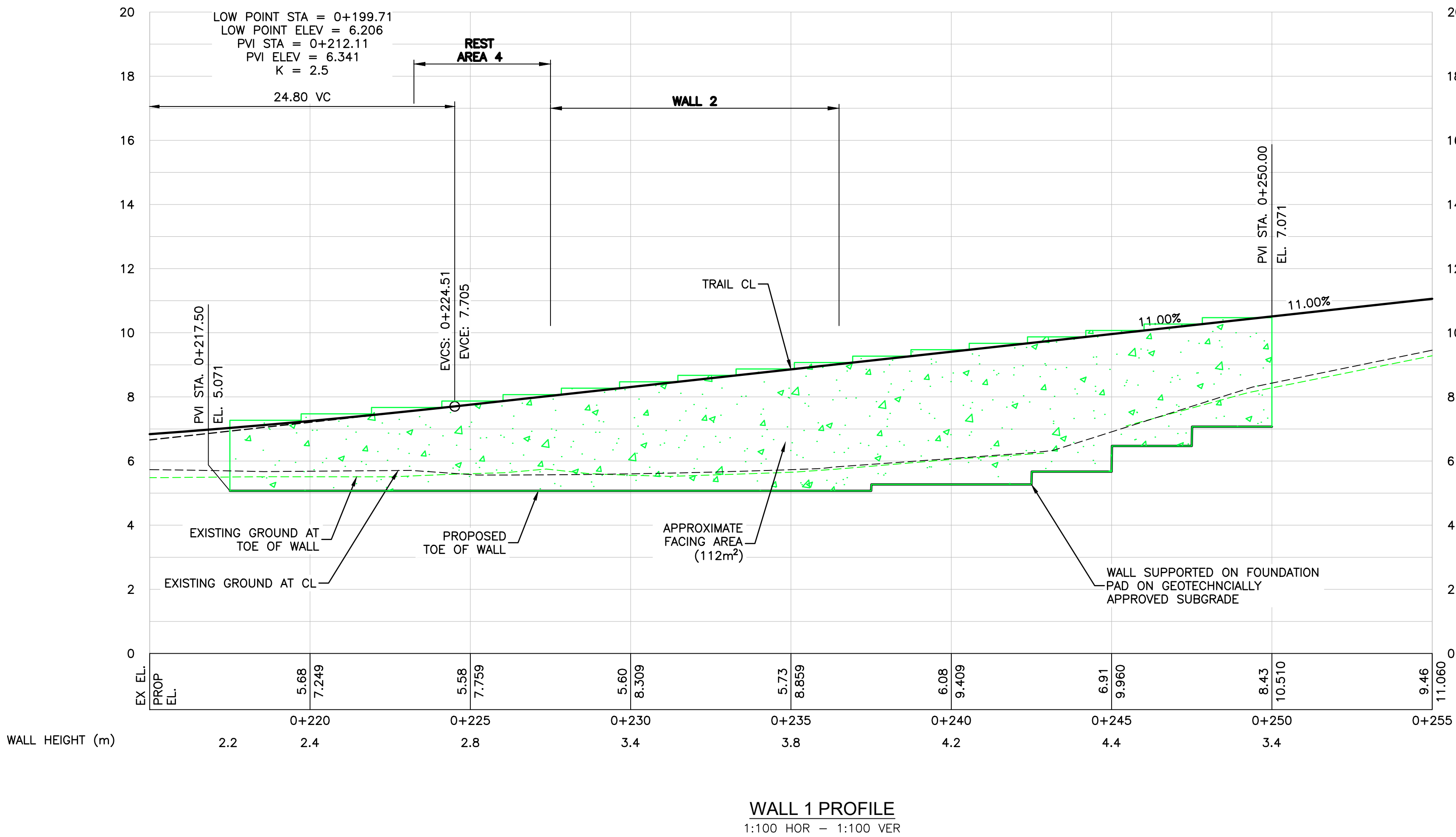
PCA Project Manager/Technical Authority	Administrateur de Projets APC
JACKIE HICKS	

Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN
ENVIRONMENTAL SURFACE PROTECTION PLAN	
REST AREA 2 DETAILS	

Project No./No. du projet	PCA #1522	Sheet/Feuille	EN-04	Revision no./La Révision no.	0
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Revision/ Revision	Description/Description	Date/Date
Client/client		
 Parks Canada Agency		
 L'Agence Parcs Canada		
Western and Northern Region		
Ouest et Nord du Canada		

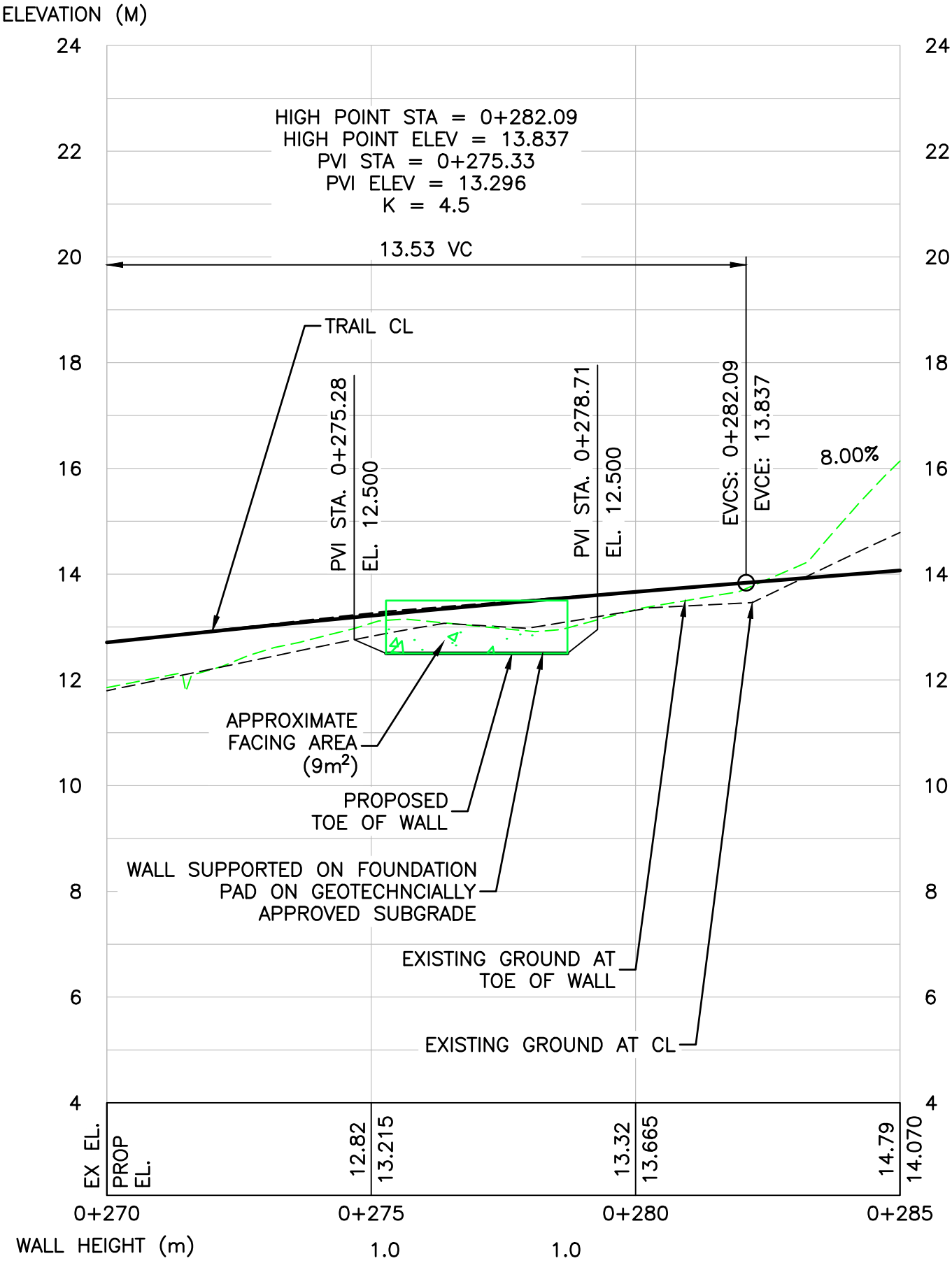
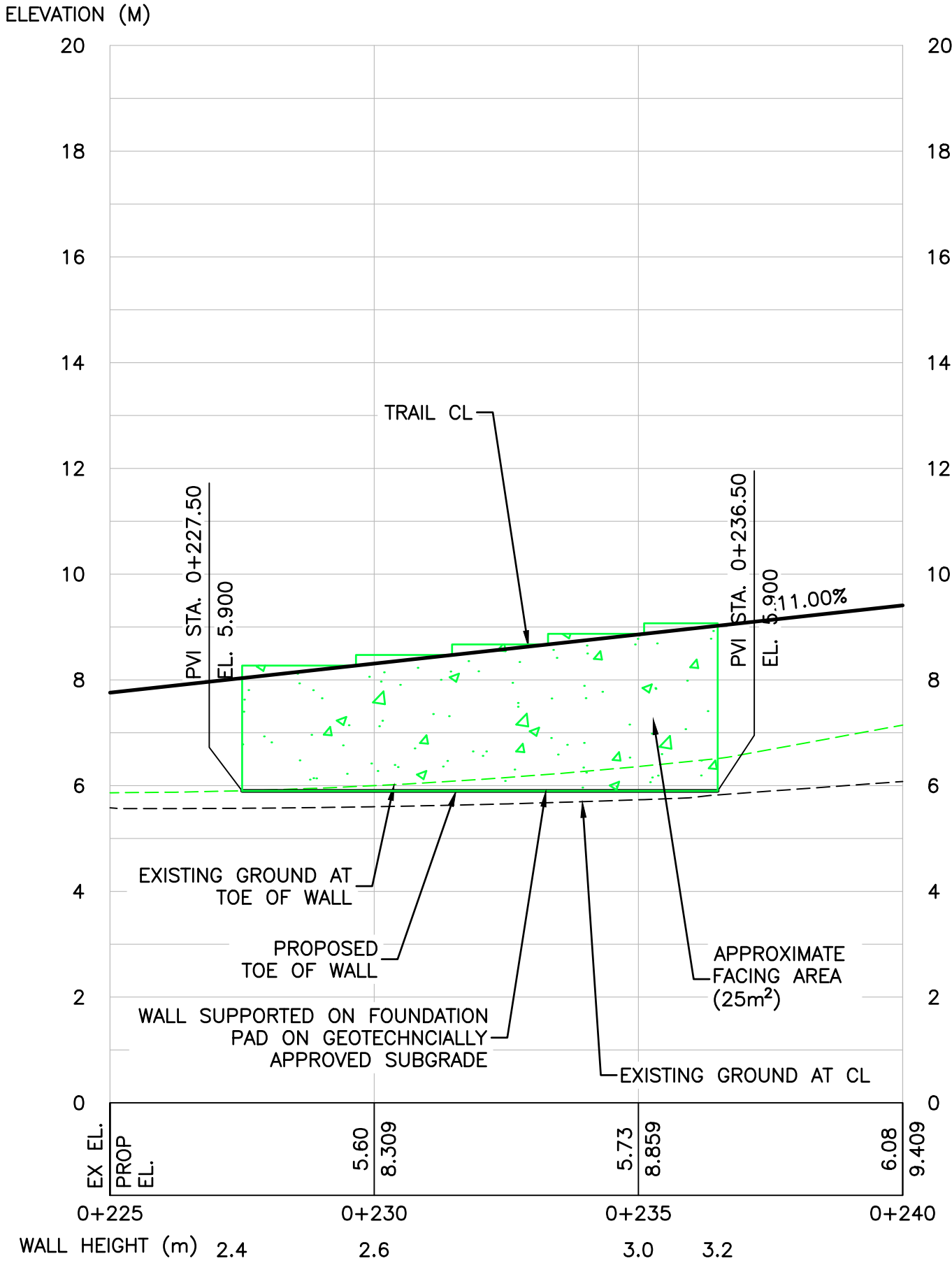
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TOFINO		
PACIFIC RIM NATIONAL PARK RESERVE		
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(Ups-cheek ta-shee)		
“Going in the right direction on the trail”		
Consultant Signature Only		
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI		
Drawn by/Dessiné par MICHAEL GIANG		
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS		

Drawing title/Titre du dessin		
WAYII AREA TRAIL DESIGN		
WALL 1 PROFILE		
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	W-01	0
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Revision/	Description/Description	Date/Date
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Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet  
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**ᑭᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ**  
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Drawn by/Dessiné par  
MICHAEL GIANG

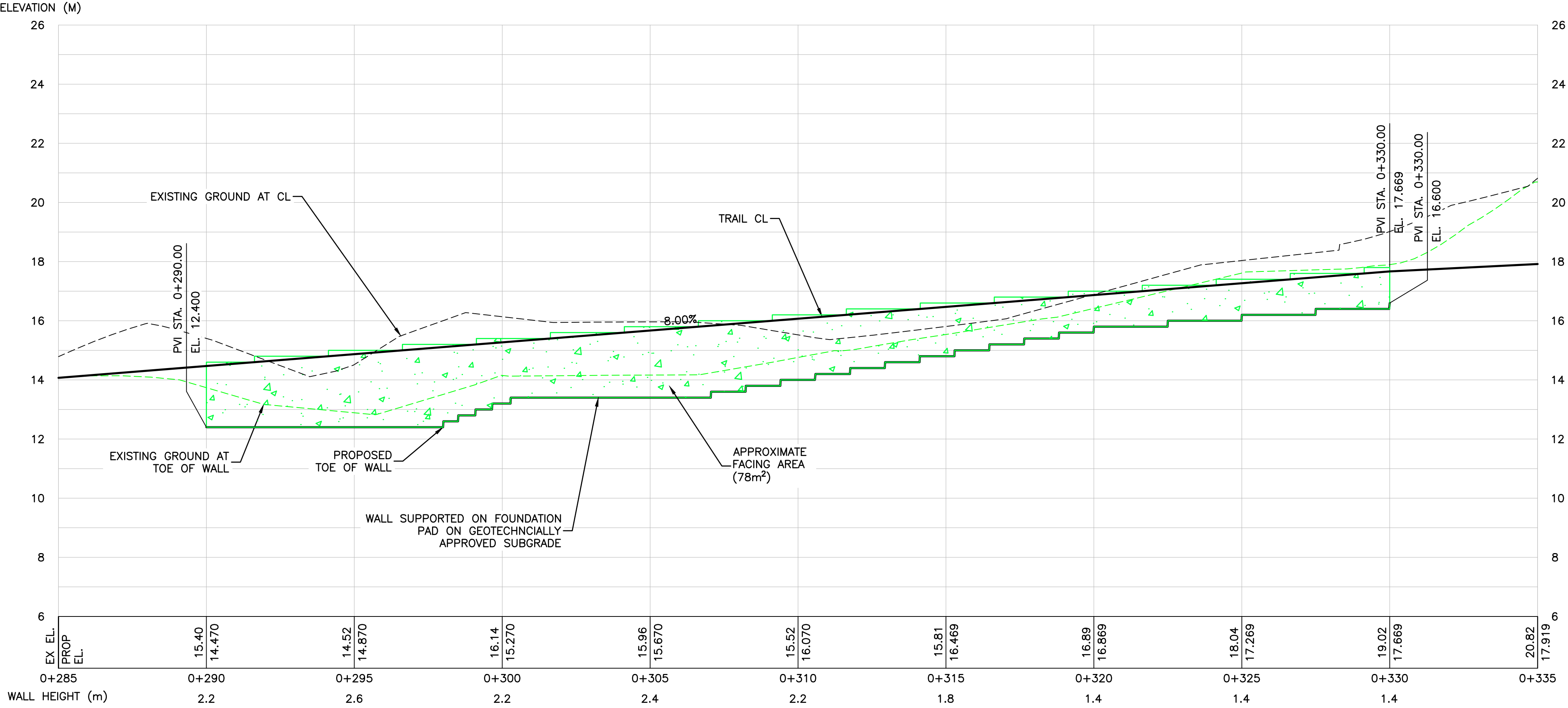
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**WALL 2 AND WALL 3 PROFILE**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Feuille <b>W-02</b> OF	Revision no./La Révision no. <b>0</b>
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WALL 4 PROFILE  
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Revision/	Description/Description	Date/Date
Client/client		
	Parks Canada L'Agence Parcs Agency Canada	
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᑦᑕᑦᑭ ᑭᐱᓂᑦᑕᑦᑭ (Ups-cheek ta-shée) “Going in the right direction on the trail”

Consultant Signature Only
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessiné par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

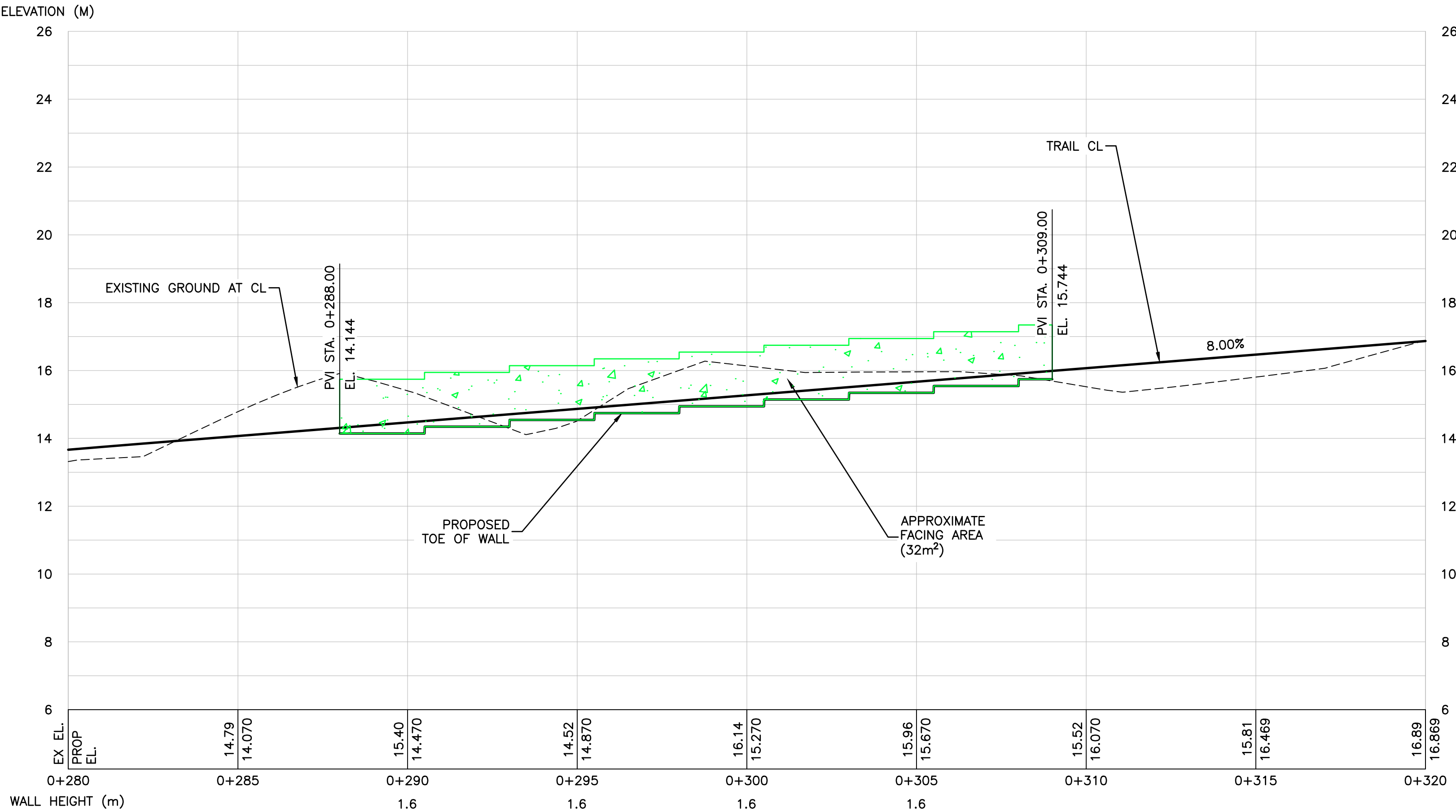
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
WALL 4 PROFILE

Project No./No. du projet PCA #1522	Sheet/Feuille W-03 OF	Revision no./ La Révision no. 0
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WALL 5 PROFILE  
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Revision/	Description/Description	Date/Date
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Designed by/Concept par  
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par  
MICHAEL GIANG

PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**WAYII AREA TRAIL DESIGN**  
**WALL 5 PROFILE**

Project No./No. du projet <b>PCA #1522</b>	Sheet/ Feuille <b>W-04</b> OF	Revision no./ La Révision no. <b>0</b>
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FOUNDATION PAD

1. EXCAVATE TO DEEPER OF NON-ORGANIC SUBGRADE OR ELEVATION ON DRAWINGS.
2. NOTE THAT THE LATERAL EXTENT OF THE FOUNDATION PADS MAY NEED TO BE LOCALLY MODIFIED ADJACENT TO TREES. GEOTECHNICAL REVIEW AND APPROVAL IS REQUIRED PRIOR TO IMPLEMENTING MODIFICATIONS. OEM TO BE CONSULTED PRIOR TO EXCAVATION WITHIN 5m OF TREES (LATERALLY).
3. GEOGRID REINFORCED FOUNDATION PAD TO EXTEND MINIMUM 0.5m BEYOND THE FACE OF THE STRUCTURAL PART OF WALL (I.E. TO APPROXIMATE BACK OF FACING CELL THAT IS TO BE FILLED WITH ORGANICS).
4. PLACE COMPOSITE GEOGRID (TE-BXC30 OR APPROVED EQUIVALENT) ON GEOTECHNICALLY APPROVED, NON-ORGANIC SUBGRADE, EXPECTED TO BE COMPACT SAND OR FIRM CLAY. COMPACT SUBGRADE IF REQUESTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
5. FOUNDATION PAD TO BE 75mm CRUSHED GRANULAR SUBBASE PLACED IN MINIMUM 2 LIFTS AND COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY (MPMDD) USING A PROCEDURE APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER.
6. PLACE BI-AXIAL GEOGRID, TE BX30PP (OR APPROVED EQUIVALENT), AT MID-DEPTH OF FOUNDATION PAD. JOINTS BETWEEN GEOGRID PANELS TO BE OFFSET FROM UNDERLYING COMPOSITE GEOGRID.
7. A VENEER (MAX 50mm THICKNESS) OF GRANULAR BASE MAY BE USED FOR FINE GRADING AT UNDERSIDE OF ENVIROGRID CELLS.
8. ARCHAEOLOGICALLY SENSITIVE SOILS MAY BE PRESENT. ALL EXCAVATION, CLEARING, AND GRUBBING WORK IS TO BE COORDINATED WITH OAM IN ADVANCE OF WORK AS OUTLINED IN THE PROJECT SPECIFICATIONS.
9. CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO EXCAVATION. INFORMATION SHOWN ON DRAWINGS IS APPROXIMATE AND IS BASE ON AVAILABLE BACKGROUND INFORMATION PROVIDED BY OTHERS.
10. FOLLOW WORKSAFE BC GUIDELINES FOR TEMPORARY EXCAVATIONS.
11. IMPLEMENT SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH CONTRACT

ENVIROGRID RETAINING WALL

1. THE MECHANICALLY STABILIZED EARTH (MSE) WALL SYSTEM IS TO BE ENVIROGRID EGA40

a. CELL APERTURE: 508 mm X 475 mm

b. CELL PANELS: 200 mm HIGH x 2.56 m LONG x 0.95 m WIDTH (I.E. EMBEDMENT INTO WALL)

c. ENVIROGRID CELLS TO SUPPLIED BY PARKS
2. UNIAXIAL GEOGRID IS TO CONSIST OF TITAN ENVIRONMENTAL TE-UX20 PET GEOGRID (SUPPLIED BY PARKS).

a. ULTIMATE TENSILE STRENGTH (Tult): 50 kN/m LTDS = 24 kN/m (PER MANUFACTURER)

b. RFcr = 1.46

c. RFd = 1.1

d. RFid = 1.3

e. COEFFICIENTS OF INTERACTION IN DIRECT SLIDING AND PULL-OUT: 0.85
3. REINFORCED & RETAINED SOIL

a. UNIT WEIGHT 20 kN/m<sup>3</sup>


b. DESIGN VALUE OF INTERNAL FRICTION: 36 DEGREES
4. WALL HEIGHTS: 1.5 to 4.6 m

5. FACING BATTER: 14 DEGREES RELATIVE TO VERTICAL
6. MINIMUM TOE EMBEDMENT: 0.5 m
7. SEISMIC DESIGN

a. EXCLUDED FOR GLOBAL STABILITY. REFER TO GEOTECHNICAL REPORT FOR INFORMATION

b. INTERNAL WALL DESIGN BASED ON 0.28g (1:475 YEAR DESIGN EARTHQUAKE)
8. LIVE LOAD: 5 kPa
9. WALL DESIGNED IN GENERAL ACCORDANCE WITH BC MOTI SUPPLEMENT TO CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) S6-14, CHBDC S6-14 AND AASHTO LRFD METHOD.
10. WATER TABLE ASSUMED AT BASE OF WALL (I.E. FULLY DRAINED).
11. SUBGRADE AT BASE OF FOUNDATION PAD: FIRM CLAY AND/OR COMPACT SAND
12. CONSTRUCT PER MANUFACTURER'S INSTRUCTIONS. A TITAN ENVIRONMENTAL REPRESENTATIVE IS TO BE ON SITE AT THE START OF WALL CONSTRUCTION. CONTRACTOR IS TO COORDINATE.
13. GEOGRID LENGTHS ARE MEASURED RELATIVE TO THE FRONT OF THE STRUCTURAL COMPONENT OF THE WALL (I.E. MIDDLE OF OUTER ENVIROGRID PANEL, ALSO BACK OF ORGANIC FACING CELL). IN GENERAL, UNIAXIAL GEOGRID LAYERS ARE TO BE INSTALLED AT APPROXIMATELY 0.4m VERTICAL SPACING (I.E. EVERY SECOND ROW VERTICALLY)
14. FOR BACK-TO-BACK WALLS (I.E. WALL 1 & WALL 2), WALLS ARE INDEPENDENT. UNIAXIAL GEOGRID IS NOT TO CONNECT FROM WALL TO WALL. GEOGRID IS TO ALTERNATE ON DIFFERENT TIERS. THE FIRST LAYER OF UNIAXIAL GEOGRID ON THE OCEAN SIDE OF WALL 1 IS TO BE DIRECTLY BELOW BELOW FIRST ROW OF CELLS.
15. BACKFILL ENVIROGRID CELLS WITH 19mm CRUSHED GRANULAR BASE, COMPACTED TO MINIMUM 95% MPMDD (NOTE THAT THIS OVERRIDES THE MANUFACTURER'S MINIMUM). RIDE ON COMPACTION EQUIPMENT IS NOT TO BE USED WITHIN 1m OF THE FACE OF THE WALL. A 1000LB PLATE COMPACTOR IS ACCEPTABLE WITHIN 1m OF THE FACE OF THE WALL.
16. FILL THE OUTER CELL THE ENVIROGRID PANELS WITH ORGANICS THAT ARE APPROVED BY PARKS AND OEM. PLANT PER PARKS & OEM. FILL WITH ORGANIC SOIL AT EACH LIFT (I.E. NOT AT END OF WALL CONSTRUCTION). ADD WOODY DEBRIS PER OEM AND GEOTECHNICAL ENGINEER. REFER TO ENVIRONMENTAL DRAWING SET (EN-\*) AND SPECIFICATION (01 35 43) FOR DETAILS REGARDING PLANTING AND RESTORATION
17. ENVIROGRID EGA40 PANELS ARE TO BE STEPPED BACK AT EACH LAYER TO CREATE A 75 DEGREE (OR GENTLER) SLOPED FACE.
18. THE HAND RAIL POST FOOTING SLEEVE IS TO BE INSTALLED AT THE TIME OF WALL CONSTRUCTION. THE CONTRACTOR IS TO ENSURE A SMOOTH ALIGNMENT OF SLEEVES. CUTTING OF ENVIROGRID CELLS IS NOT PERMITTED. SLEEVES ARE 150mm DIAMETER RIGID PVC AND EXTEND MINIMUM 1m BELOW TOP OF ENVIROGRID CELLS (WHICH IS ABOUT 0.2m BELOW TRAIL ASPHALT SURFACE).
19. WALL BACKFILL TO BE 75mm PIT RUN THAT IS PLACED AND COMPACTED IN 200mm THICK LIFTS (I.E. HEIGHT OF ENVIROGRID CELL) AND COMPACTED TO A MINIMUM 95% MPMDD. VERIFY DENSITIES WITH IN PLACE DENSITY TESTING.
20. WALL CONSTRUCTION AND FILL PLACEMENT IS TO BE COMPLETED UNDER THE OBSERVATION OF WSP.
21. WALL 3 CONSTRUCTION DETAIL IS TO BE PER THE DETAIL FOR WALL 5 SHOWN ON WD-4

LEGEND:

			PROJECT:	DATE:	 <div>WSP Canada Inc. 760 Enterprise Cres., Victoria, B.C. V8Z 6R4 P: 250.475.1000 <a href="http://www.wsp.com">www.wsp.com</a></div>
			UPSCHEEK TASHEE MULTI-USE PATHWAY WAYII AREA TRAIL DESIGN (ESCARPMENT) PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC	FEB 2021	
				DESIGN BY: DF	
			CLIENT:	DRAWN BY: BPK	
			PARKS CANADA	CHECKED BY: DF	
0	ISSUED FOR TENDER	02/17/21	TITLE:	SCALE:	
			CONSTRUCTION NOTES - RETAINING WALL	AS SHOWN	
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				PROJECT No.:	FIGURE NO.:
				191-08875-02	WD-1



**WALL 1 & WALL 2**  
**TYPICAL DETAIL - DOUBLE WALL AT 0+235**

ELEVATION (m)

12.0

10.0

8.0

6.0

4.0

TRRS208

CL BIKE PATH

1.4m HIGH SAFETY RAIL

3.0m WIDE ASPHALT TRAIL

50mm ASPHALT

100mm GRANULAR BASE

MIN 0.2m

2%

MIN 0.2m

150mm DIAMETER RIGID PVC SLEEVE FOR RAILING POSTS EXTENDING BELOW TOP OF ENVIROGRID PANELS. SLEEVES ARE TO BE INSTALLED AT THE TIME OF WALL CONSTRUCTION

ORGANICS TO BE PLACED IN FRONT CELL AT EACH LAYER. REFER TO NOTE 16 (WS-1), ENVIRONMENTAL DRAWING SET (EN-\*) AND ENVIRONMENTAL SPECIFICATIONS (01 35 43)

REGRADE TO DIRECT SURFACE DRAINAGE TO CULVERT #2. 10kg RIP RAP ADJACENT TO WALL (0.5m WIDE) UNDERLAIN BY NON-WOVEN GEOTEXTILE (TE-6 OR APPROVED EQUIVALENT) REINSTATE ORGANICS PER OEM TO MATCH EXISTING GRADE SEE DWGX-12 AND ENVIRONMENTAL SPECIFICATIONS AND DRAWINGS

APPROXIMATE EXISTING GRADE

1m

WALL 2

PIT RUN FILL

INFERRED TEMPORARY EXCAVATION CUT

0.5m

TE-6 NON-WOVEN GEOTEXTILE SEPARATOR ON APPROVED SUBGRADE

TE-BX30PP BIAXIAL GEOGRID TO EXTEND TO TRAIL CENTERLINE

GEOTECHNICALLY APPROVED SUBGRADE (UNDISTURBED)

TE-BX30PP (OR APPROVED EQUIVALENT) PLACED AT MID-HEIGHT OF FOUNDATION PAD

TE-BXC30 (OR APPROVED EQUIVALENT) COMPOSITE GRID AT SUBGRADE / FOUNDATION PAD INTERFACE.

WALL 1

ORGANICS AND WOODY DEBRIS TO BE PLACED ALONG THE TOE OF THE WALL PER OEM. THIS IS TO OCCUR BEFORE CONSTRUCTION PROGRESSES TOO HIGH FOR EQUIPMENT REACH. SHAPE TO PROMOTE DRAINAGE AWAY FROM WALL. REFER TO ENVIRONMENTAL SPECIFICATIONS AND DRAWINGS.

DISCHARGE TO OCEAN SIDE OF WALL AT 8m INTERVALS WITH 100mm DIAMETER RIGID PVC PIPE. DO NOT BLOCK EXIT POINT WITH ORGANICS. AT DISCHARGE POINT PROVIDE 10kg ANGULAR ROCK (RIP RAP) ON NON-WOVEN GEOTEXTILE (TE-6 OR APPROVED EQUIVALENT) FOR EROSION PROTECTION AS REQUIRED FOR WALL STABILITY AND OEM.

MIN 0.5m

0.5m

0.5m

TRRS253

TRRS254

TRRS255

10.0

LATERAL EXTENT OF EXCAVATION TO BE LOCALLY LIMITED AT TREES. THIS APPROVAL OR DIRECTION FROM OEM WITH INPUT FROM WSP IS REQUIRED PRIOR TO EXCAVATION

MIN 4.0m LENGTHS OF TE-UX20PET UNIAXIAL GEOGRID. THE LENGTH OF GEOGRID CAN BE REDUCED TO EXTEND TO 0.1m AWAY FROM BACK OF ENVIROGRID PANELS ON OPPOSITE SIDE OF TRAIL FOR UPPER 1.4m ONLY

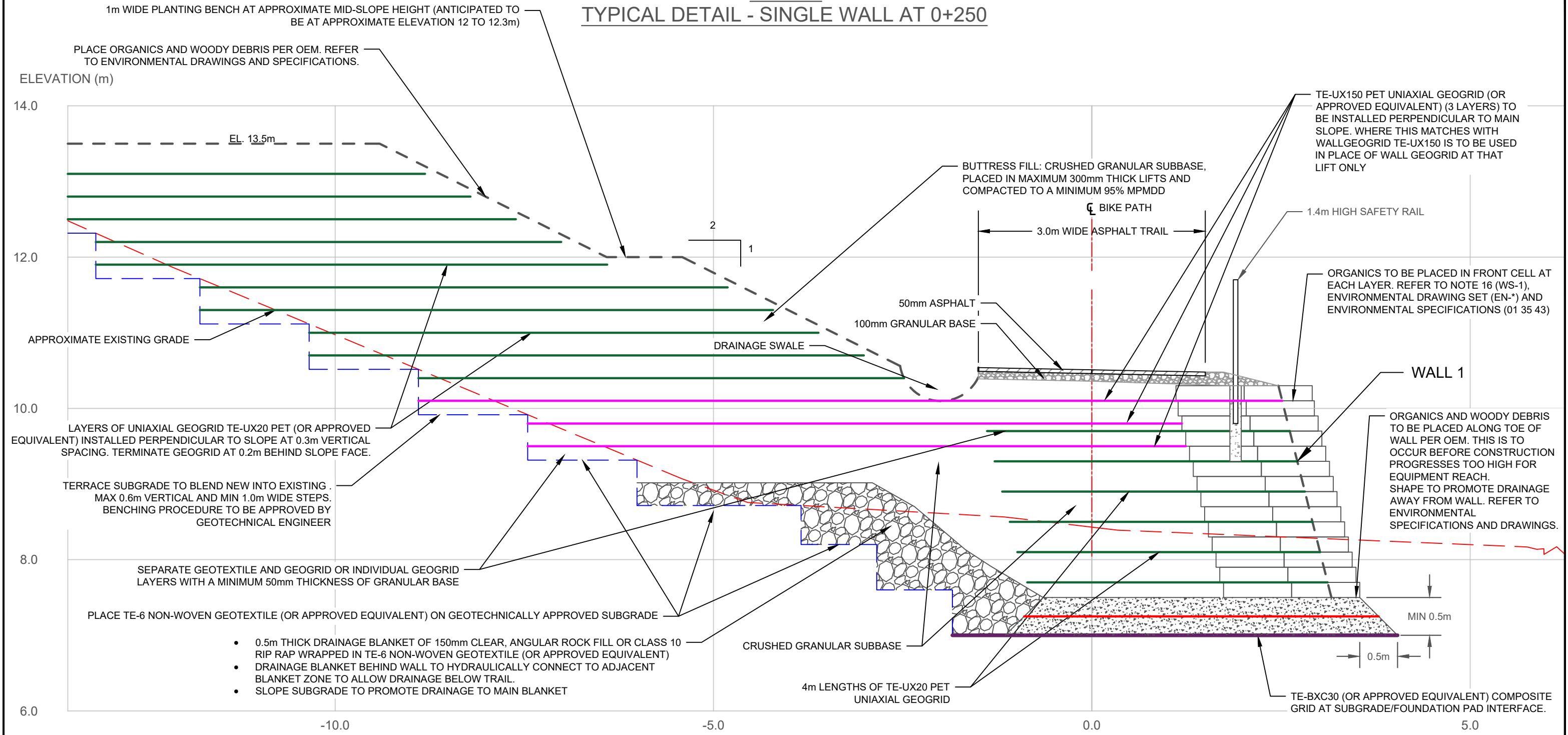
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**wsp**  
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[www.wsp.com](http://www.wsp.com)

FIGURE NO.:  
**WD-2**

WALL 1  
TYPICAL DETAIL - SINGLE WALL AT 0+250




LEGEND:				PROJECT:	UPSCHEEK TASHEE MULTI-USE PATHWAY WAYII AREA TRAIL DESIGN (ESCARPMENT) PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC	DATE:	FEB 2021	 WSP Canada Inc. 760 Enterprise Cres., Victoria, B.C. V8Z 6R4 P: 250.475.1000 <a href="http://www.wsp.com">www.wsp.com</a>		
						DESIGN BY:	DF			
						DRAWN BY:	BPK			
				CLIENT:	PARKS CANADA	CHECKED BY:	DF			
				TITLE:	WALL 1 DETAIL AND BUTTRESS DETAIL (STATION 0+250)	SCALE:	AS SHOWN			
	0	ISSUED FOR TENDER	02/17/21							
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Station	Approx. Trail Elevation (m)	Top of Drainage Blanket (Max) (m)	Stronger Uniaxial Geogrid Elevations (m)	Approx. Distance Grid Extends into Slope Relative to Lower Trail Center Line (m) (see Note 1 below)
250	10.5	9.5	9.5, 9.8, 10.1	10 To 12m
256 (Section E)	11.2	10	10.1, 10.4, 10.7	9 To 12m
260	11.6	10.4	10.4, 10.7, 11.0	9 To 12m
265	12.0	N/A	11.0, 11.3, 11.6	5m @ Tree 244
270	12.7	N/A	11.6, 11.9, 12.2	7.5m @ Tree 241
277	13.4	N/A	11.9, 12.2, 12.5	7.5m
285	14.1	N/A	11.9, 12.2, 12.5	5m

PERFORATED 100mm DIAMETER RIGID PVC PIPE INSTALLED WITH NONWOVEN GEOTEXTILE (TE-6 OR APPROVED EQUIVALENT) AND DRAIN ROCK SURROUND EXTENDS 1M INTO REINFORCED FILL ZONE.  
DISCHARGE AT 8m INTERVALS. DO NOT BLOCK EXIT POINT WITH ORGANICS.  
PROVIDE 150mm ANGULAR ROCK ON NON-WOVEN GEOTEXTILE FOR EROSION PROTECTION AT DISCHARGE LOCATION.



			PROJECT:	UPSCHEEK TASHEE MULTI-USE PATHWAY WAYII AREA TRAIL DESIGN (ESCARPMENT) PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC	DATE:	FEB 2021	 WSP Canada Inc. 780 Enterprise Cres., Victoria, B.C. V8Z 6R4 P: 250.475.1000 <a href="http://www.wsp.com">www.wsp.com</a>
			CLIENT:	PARKS CANADA	DESIGN BY:	DF	
			TITLE:	WALL 4 & 5 AND BUTTRESS DETAIL (STATION 0+300)	DRAWN BY:	BPK	
					CHECKED BY:	DF	
0	ISSUED FOR TENDER	02/17/21			SCALE:	AS SHOWN	
REV. :	DESCRIPTION:	DATE : (M/D/YR)	THIS DRAWING IS THE SOLE PROPERTY OF WSP CANADA INC. AND CANNOT BE USED OR DUPLICATED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN CONSENT OF WSP. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR OMISSIONS TO WSP.			PROJECT No.:	FIGURE NO.:
						191-08875-02	WD-4