



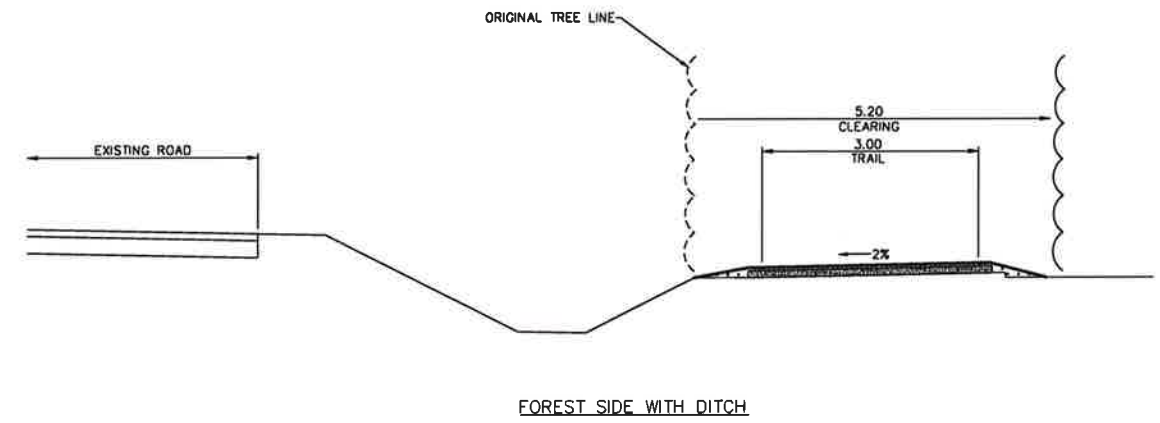




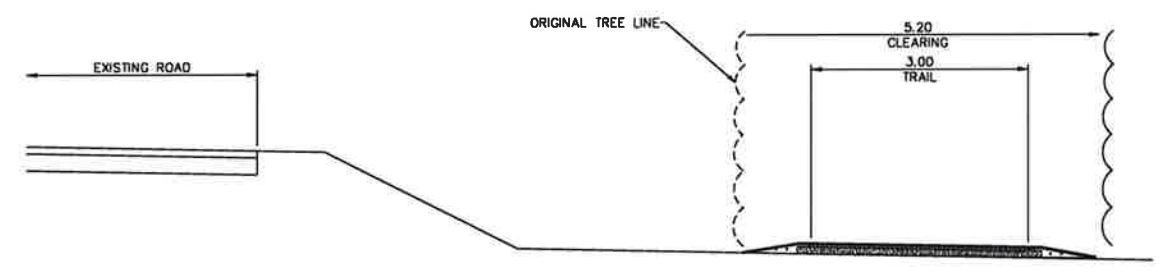




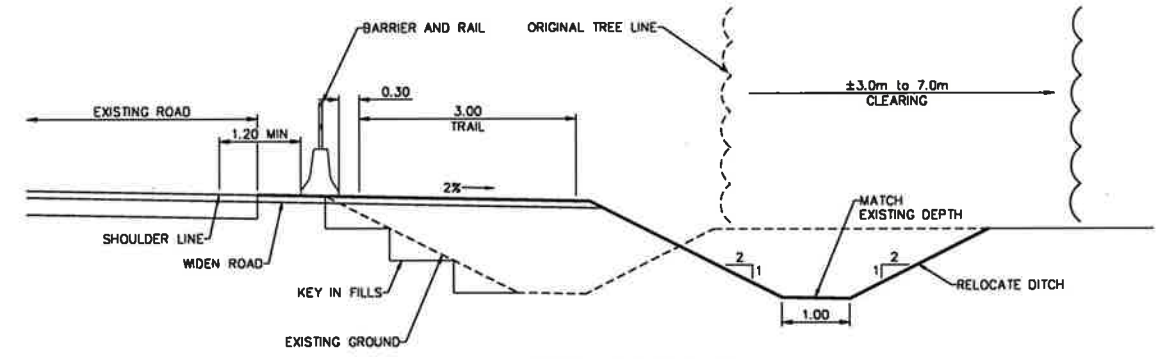
**PARSONS**



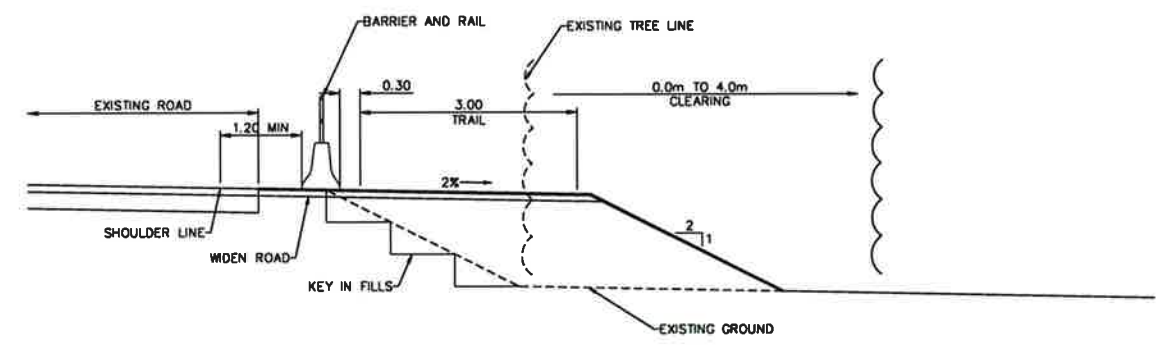
FOREST SIDE WITH DITCH



FOREST SIDE, NO DRAINAGE DITCH



ROADSIDE WITH DITCH



ROADSIDE, NO DITCH

PROFESSIONAL  
OF  
D. G. CHALMERS  
COLUMBIA  
DEC 18 2018

NOTES:  
1. SECTIONS OF TRAIL NOT CLEARED BY PREVIOUS CONTRACT SHALL BE CLEARED UNDER THIS CONTRACT

Version/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	18/12/2018
1	ISSUED FOR TENDER	28/11/2018
0	ISSUED FOR TENDER	27/10/2017

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

Project Site/Titre du projet  
TOFINO  
PACIFIC RIM NATIONAL PARK RESERVE  
?apsçik fašil (Ups-cheek ta-shee)  
"Going in the right direction on the trail"

Consultant Signature Only  
Designed by/Conçue par  
DON CHALMERS / 2018-11  
Drawn by/Dessiné par  
DAVID COX / 2018-11  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACQUE HICKS

Drawing Site/Titre du dessin  
?apsçik fašil (Ups-cheek ta-shee)  
"Going in the right direction on the trail"  
TRAIL DESIGN

TYPICAL SECTIONS ALONG HIGHWAY 4 SHEET 1

Project No./No. du projet	Sheet/Feuille	Revision no./No. de la Modification
PCA #1522	T-43 OF	2

G:\TYM\0310 - PRODC 2018-11\WAPAC\BARRIERS\BARRIERS\BARRIERS\_1-11-18.DWG PLOTTED ON 2018/12/17 3:48pm BY P002896







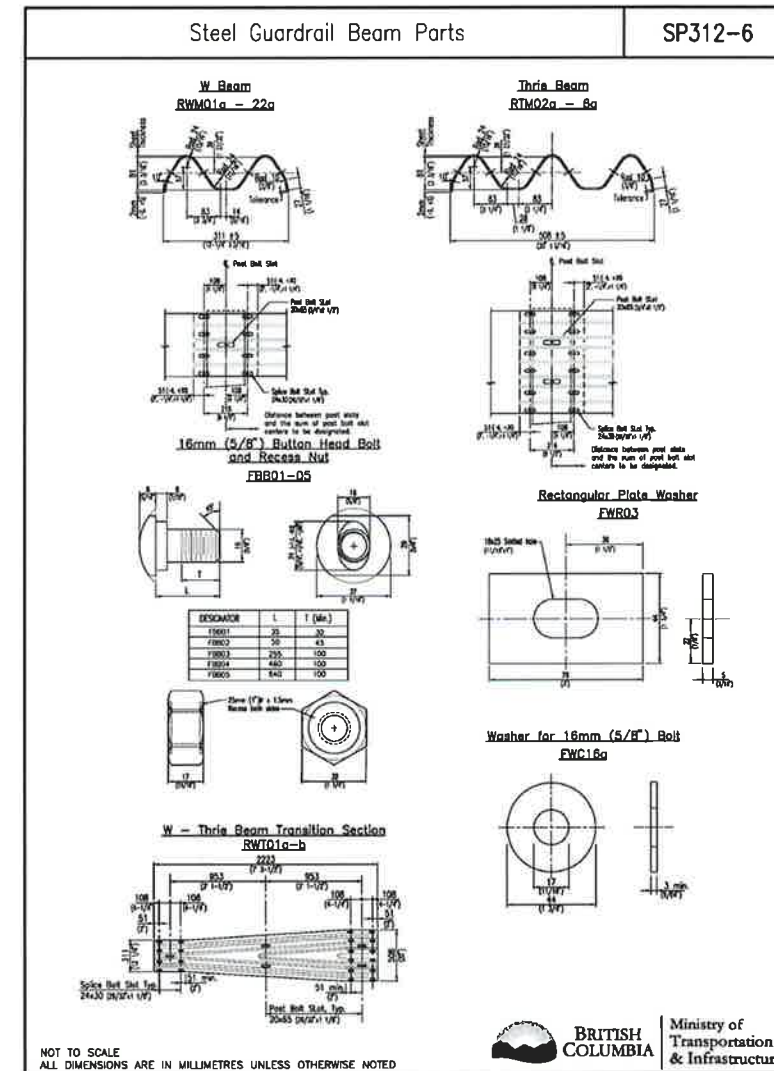




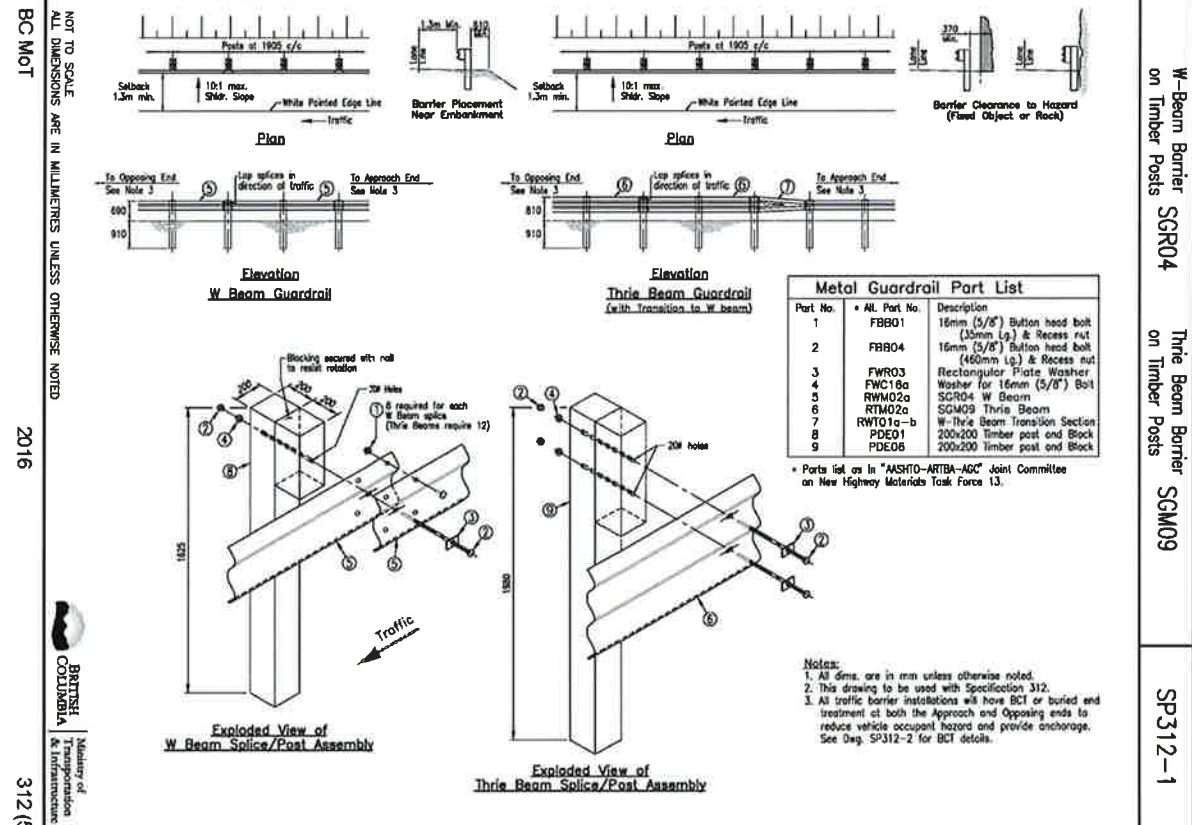


**PARSONS**

SECTION 312 STEEL TRAFFIC BARRIERS AND WOOD POSTS



BC MoT 2016 312 (7 of 10)



BC MoT 2016 312 (5 of 10)



Revision/Description	Date/Date
1	ISSUED FOR TENDER 18/12/2016
0	ISSUED FOR TENDER 27/10/2016

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

Project Site/Title du projet  
**TOFINO**  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**?apscilik fasli**  
**"Ups-cheek ta-shee"**  
**"Going in the right direction on the trail"**

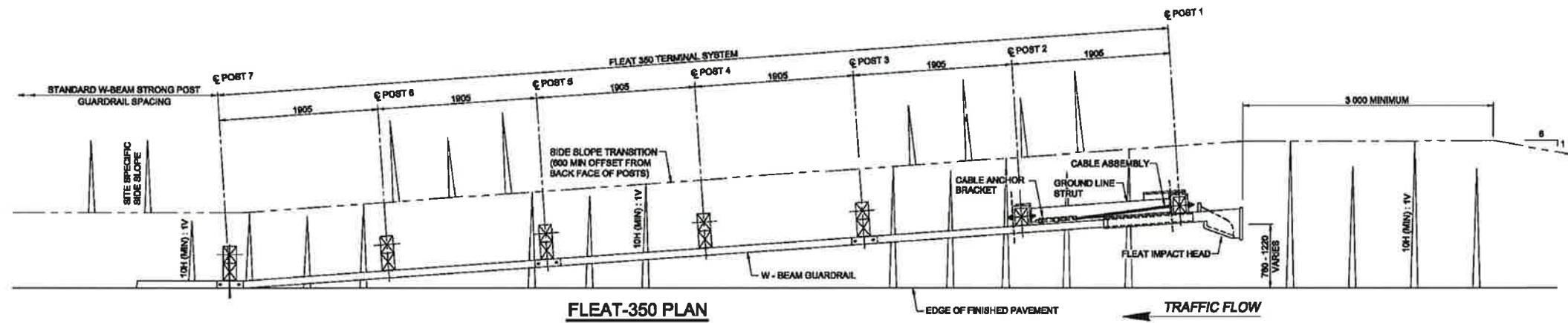
Consultant Signature Only  
Designed by/Conçu par  
DON CHALMERS / 2016-11  
Drawn by/Dessiné par  
DAVID COX / 2016-11  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing Site/Title du dessin  
**?apscilik fasli (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**  
**TRAIL DESIGN**

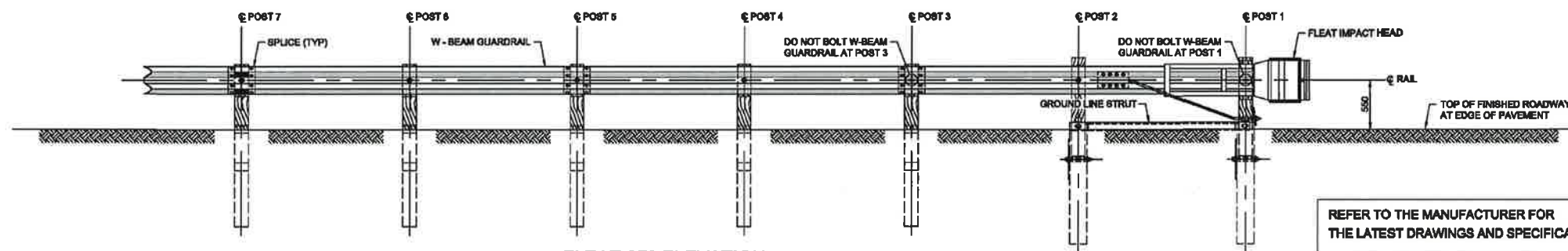
Project No./No. du projet  
PCA #1522  
Sheet/Feuille  
T-48.2  
Revision no./Le Révision  
1

PROFESSIONAL  
PROVINCE OF  
D. G. CHALMERS  
BRITISH COLUMBIA  
REGISTERED ENGINEER  
DEC 18 2016

**PARSONS**

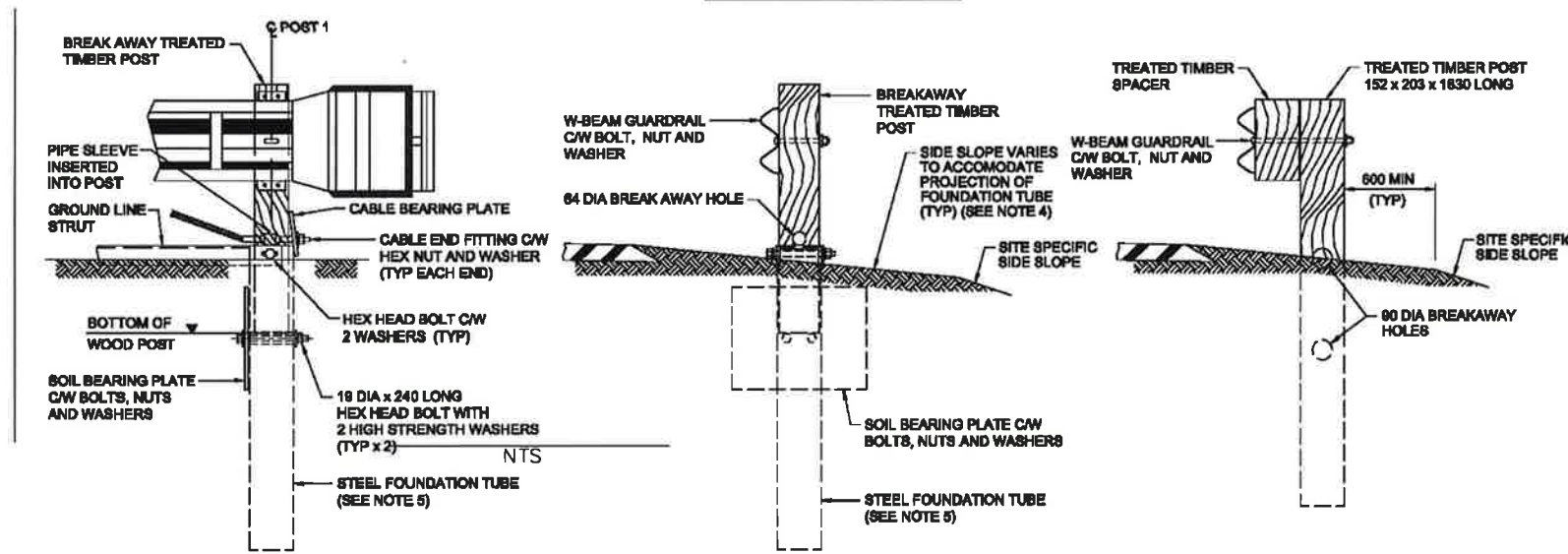


**FLEAT-350 PLAN**



**FLEAT-350 ELEVATION**

REFER TO THE MANUFACTURER FOR THE LATEST DRAWINGS AND SPECIFICATIONS



**POST 1 ELEVATION**  
DO NOT BOLT W-BEAM GUARDRAIL TO POST 1

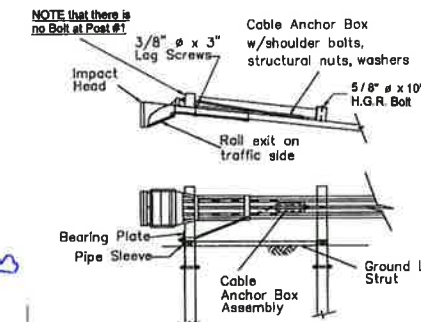
**POST 2 SECTION**  
**POST DETAILS**

**POSTS 3, 4, 5, 6, AND 7 SECTION**  
(DO NOT BOLT W-BEAM GUARDRAIL TO POST 3)

W-BEAM STRONG POST  
TL-3 FLEAT 350  
ENERGY ABSORBING TERMINAL

**NOTES:**

1. THE FLEAT 350 SYSTEM DEPICTED ON THIS DRAWING OR ANY SIMILARLY APPROVED PRODUCT FROM THE BC MINISTRY OF TRANSPORTATION "APPROVED LIST" WILL BE ACCEPTED.
2. THIS DRAWING SHOWS THE INSTALLATION OF THE RIGHT SHOULDER EXTRUDER TERMINAL. FOR LEFT SHOULDER INSTALLATIONS, SUCH AS FOR UNIDIRECTIONAL TRAFFIC OR DIVIDED HIGHWAYS WITH WIDE MEDIANS, THE EXTRUDER TERMINAL SHOWN IS INVERTED.
3. RAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW.
4. TOP OF FOUNDATION TUBES SHALL BE SET BETWEEN 64 AND 76 ABOVE THE TOP OF PAVED SHOULDER EDGE AND SHALL NOT PROJECT MORE THAN 100 ABOVE THE FINISHED SIDE SLOPE GRADE AT POST.
5. FOR POSTS 1 AND 2, THE FOLLOWING FOUNDATION TUBES MAY BE USED:
  - a. 1830 LONG SPLIT OR SOLID FOUNDATION TUBES WITHOUT SOIL BEARING PLATES.
  - b. 1524 LONG SOLID OR 1370 LONG SOLID FOUNDATION TUBES WITH SOIL BEARING PLATES.
6. TO ENSURE PROPER DELINEATION, REFLECTIVE SHEETING ON THE FRONT FACE OF THE FLEAT 350 OR SIMILARLY APPROVED PRODUCT SHALL BE PROVIDED AS PART OF THE INSTALLED SYSTEM.
7. POST 3 MARKS THE BEGINNING OF THE CALCULATED LENGTH OF NEED.
8. ALL FITTINGS AND HARDWARE SHALL BE GALVANIZED.
9. POSTS SHALL BE SET BY INSTRUMENT FOR ALIGNMENT AND GRADE.



**ABOVE-GROUND DETAILS AT POST LOCATION 1 & 2**



**KEY PLAN**  
N.T.S.

Revision/Description	Description/Description	Date/Date
0	ISSUED FOR TENDER	27/10/2016
1	ISSUED FOR TENDER	26/11/2016
2	ISSUED FOR TENDER	18/12/2016

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

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

Consultant Signature Only

Designed by/Conçue par  
DON CHALMERS / 2016-11

Drawn by/Dessiné par  
DAVID COX / 2016-11

PCA Project Manager/Responsable du projet  
Administrateur de Projets APC  
JACKIE HICKS

Drawing Title/Titre de dessin

ʔapscik fasil (Ups-cheek ta-shee)  
"Going in the right direction on the trail"  
**TRAIL DESIGN**

TYPICAL W-BEAM BARRIERS 2

Project No./No. du projet	Sheet/Feuille	Revision/Revisión
PCA #1522	T-48.3 OF	2

PROFESSIONAL  
OF  
D. G. CHALMERS  
BRITISH COLUMBIA  
DEC 18 2016

3/11/2016 10:54 AM - P:\2016-11\1522\1522-1111-0001-1-48.3-48.3.dwg - ACUTED ON 2016/12/13 3:53pm BY P000002















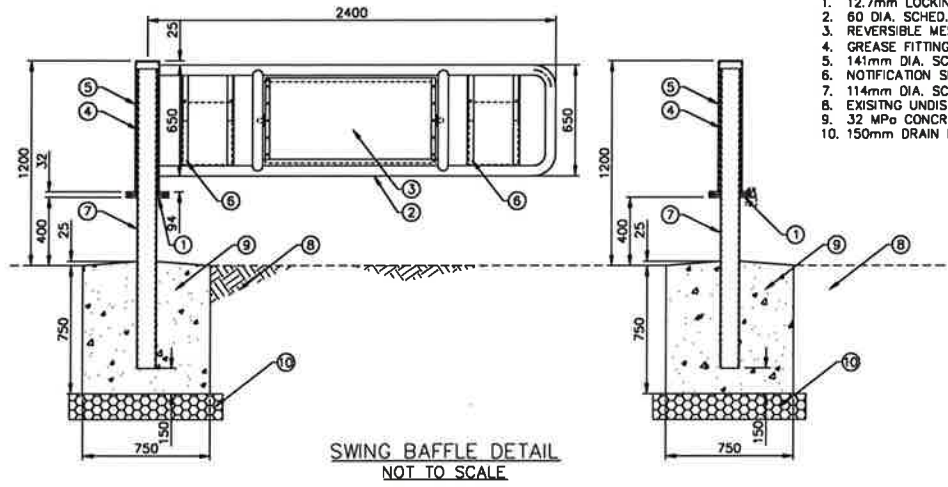
**PARSONS**

**GENERAL NOTES**

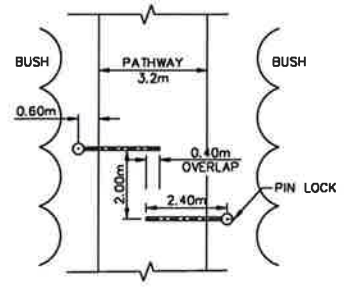
1. ALL PIPE AND COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION
2. ALL PIPE TO BE SCHEDULE 40. STEEL
3. ALL JOINTS TO BE CONTINUOUS WELDS (MIN 0.6 THICK)
4. 12.7mm LOCKING PLATE TO BE WELDED TO INSERT.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
6. TEXT FOR SIGNS, INCLUDING: FONT, SIZE, AND LAYOUT TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE

**BAFFLE DETAIL**

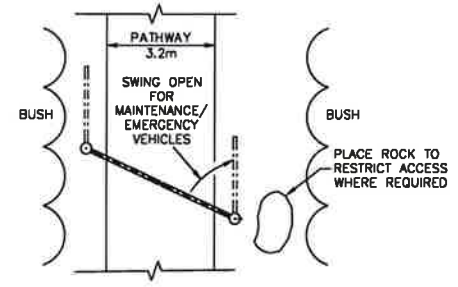
1. 12.7mm LOCKING PLATES
2. 60 DIA. SCHED. 40 GALV. STEEL PIPE
3. REVERSIBLE MESSAGE SIGN
4. GREASE FITTING (UPPER)
5. 141mm DIA. SCHED. 40 GALV. STEEL PIPE
6. NOTIFICATION SIGN HOLDER
7. 114mm DIA. SCHED 40 GALV. STEEL INSERT (MALE)
8. EXISTING UNDISTURBED SUBGRADE.
9. 32 MPa CONCRETE FOOTING
10. 150mm DRAIN ROCK



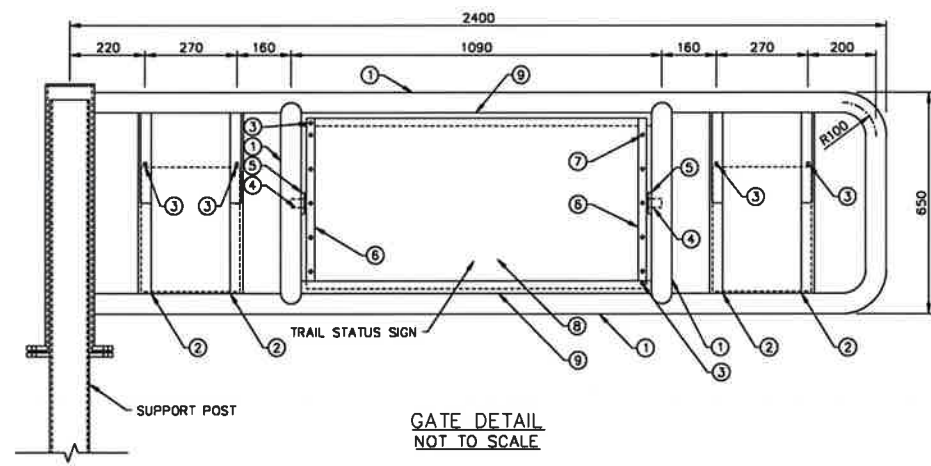
SWING BAFFLE DETAIL  
NOT TO SCALE



SWING BAFFLE - PLAN  
TRAIL OPEN  
NOT TO SCALE



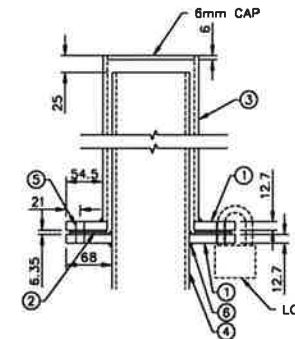
SWING BAFFLE - PLAN  
TRAIL CLOSED  
NOT TO SCALE



**GATE AND SIGN DETAILS**

1. 60 DIAMETER SCHEDULE 40 GALVANIZED STEEL PIPE
2. 38mm U-CHANNEL 3.175mm W.T.
3. 10mm DRILLED HOLES FOR LOCKS (LOCKS SUPPLIED BY OWNER) 250mm OF ONE LEG REMOVED TO PERMIT SIGN INSTALLATION.
4. 25.4 mm DIAMETER X 90mm LONG STEEL ROD WELDED TO SIGN SUPPORT
5. 28mm DRILLED HOLE c/w 9.5 mm THICK 63 mm DIA. STIFFENING PLATE
6. 25mm X 500mm LONG 6 mm THICK STEEL SIGN SUPPORT c/w 4 DRILLED HOLES FOR 9.525mm SS BOLTS.
7. 9.525mm SS BLOTS 25 mm LONG, WASHERS AND NUTS. DEFORM THREAD TO PREVENT REMOVAL.
8. 1000mm X 500mm X 3mm SHEET STEEL SIGN ENGINEERING GRADE SHEETING c/w SILK SCREEN MESSAGE.
9. 6mm X 38mm STEEL BAR SIGN STOP.
10. ALL WELDS TO BE FULL PENETRATION UNLESS OTHERWISE NOTED.

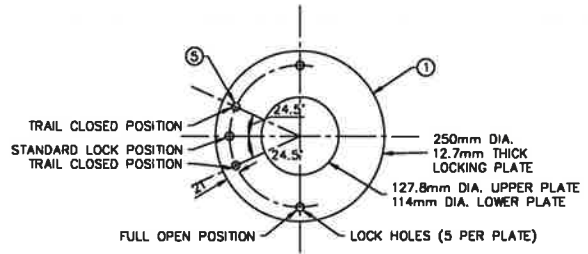
GATE DETAIL  
NOT TO SCALE



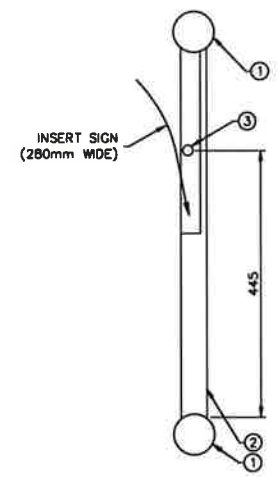
**LOCKING PLATE DETAIL**

1. 12.7mm LOCKING PLATE
2. 2 X 3.175mm THICK TEFLON WASHERS FIXED TO LOCKING PLATES
3. 141mm DIA SCHED. 40 GALV. STEEL PIPE
4. 114mm DIA SCHED. 40 GALV. STEEL PIPE
5. 12.7mm DIA HOLES DRILLED THROUGH LOCKING PLATES AND TEFLON WASHERS TO ACCOMMODATE PADDLE LOCK (LOCKS SUPPLIED BY OWNER)
6. FULL PENETRATION WELDS THROUGHOUT.

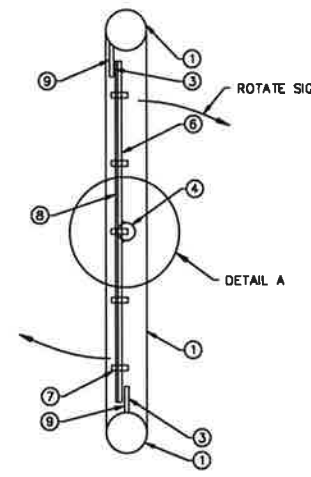
LOCKING PLATE DETAIL - ELEVATION  
NOT TO SCALE



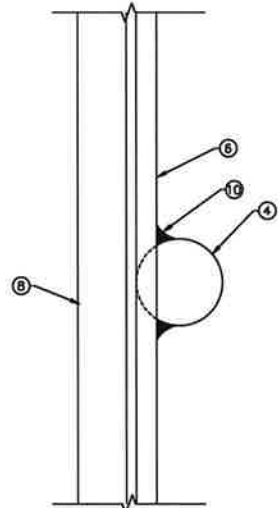
LOCKING PLATE DETAIL - PLAN  
NOT TO SCALE



NOTIFICATION SIGN HOLDER DETAIL  
NOT TO SCALE



TRAIL STATUS SIGN DETAIL  
NOT TO SCALE



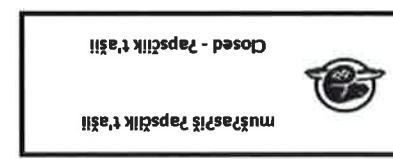
DETAIL A  
NOT TO SCALE



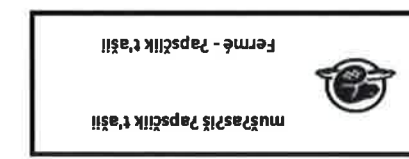
TRAIL STATUS SIGN (ENGLISH)  
NOT TO SCALE



TRAIL STATUS SIGN (FRENCH)  
NOT TO SCALE



TRAIL STATUS SIGN (ENGLISH)  
NOT TO SCALE



TRAIL STATUS SIGN (FRENCH)  
NOT TO SCALE



- TRAIL STATUS SIGN**
1. TRAIL STATUS SIGN TO BE 1000mm X 500mm
  2. ENGLISH AND FRENCH SIGNS TO BE PLACED ONE ON EACH GATE.
  3. SIGN MESSAGE TO BE CONFIRMED BY PARKS CANADA PRIOR TO PRODUCTION.



Revision/Description	Date
1	ISSUED FOR TENDER 18/12/2018
2	ISSUED FOR TENDER 31/10/2017

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

Projet titre du projet  
TOFINO  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**ʔapsčlik t'ašii**  
**(Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

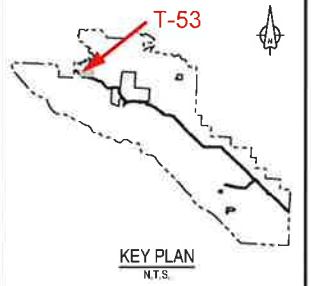
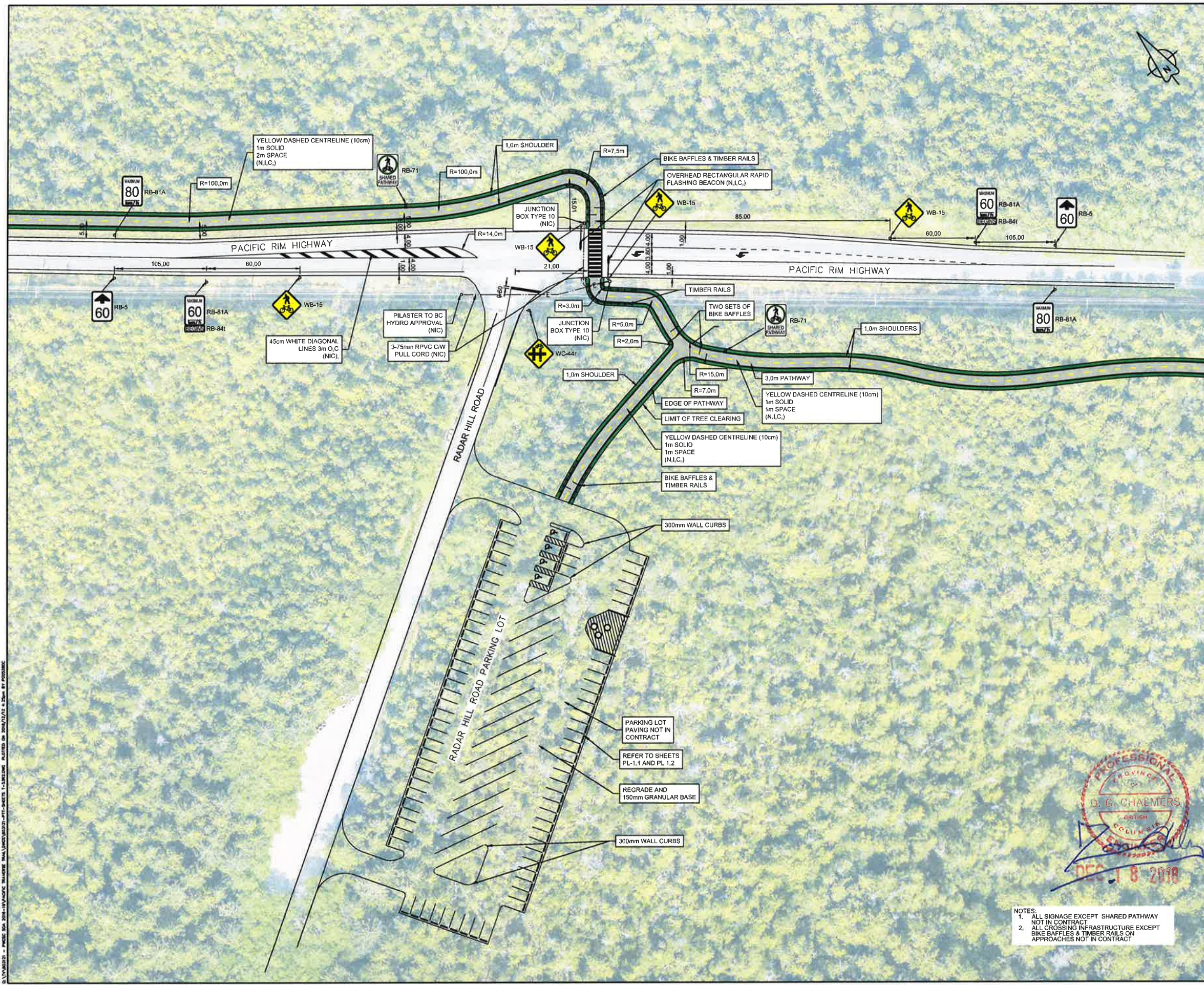
Consultant Signature Only  
Designed by/Concept par  
DON CHALMERS / 2016-11  
Drawn by/Designé par  
DAVID COX / 2016-11  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/titre du dessin  
**ʔapsčlik t'ašii (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**  
**TRAIL DESIGN**

TYPICAL BAFFLES

Project No./No. du projet	Sheet/Feuille	Revision no./No. de révision
PCA #1522	T-51 OF	1

**PARSONS**



Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	18/12/2018
1	ISSUED FOR TENDER	16/11/2018
0	ISSUED FOR TENDER	27/10/2018

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

Projet/Titre du projet  
TOFINO  
**PACIFIC RIM NATIONAL PARK RESERVE**  
**?apsc̓iik tašee (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**

Designed by/Concept par  
DON CHALMERS / 5016-11  
Drawn by/Dessiné par  
DAVID COX / 2016-11  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS



Drawing title/Titre du dessin  
**?apsc̓iik tašee (Ups-cheek ta-shee)**  
**"Going in the right direction on the trail"**  
**TRAIL DESIGN**

HIGHWAY 4 CROSSING AT RADAR HILL

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision
PCA #1522	T-53 OF	2

- NOTES:
1. ALL SIGNAGE EXCEPT SHARED PATHWAY NOT IN CONTRACT
  2. ALL CROSSING INFRASTRUCTURE EXCEPT BIKE BAFFLES & TIMBER RAILS ON APPROACHES NOT IN CONTRACT

3/1/2018/2018 - P:\2018-15\WORKING DRAWINGS - PACIFIC RIM NATIONAL PARK RESERVE - TRAIL DESIGN - T-53 - SHEETS 1 - LINESHOW PLUSTED ON 2018/12/17 4:25pm BY P0030302

