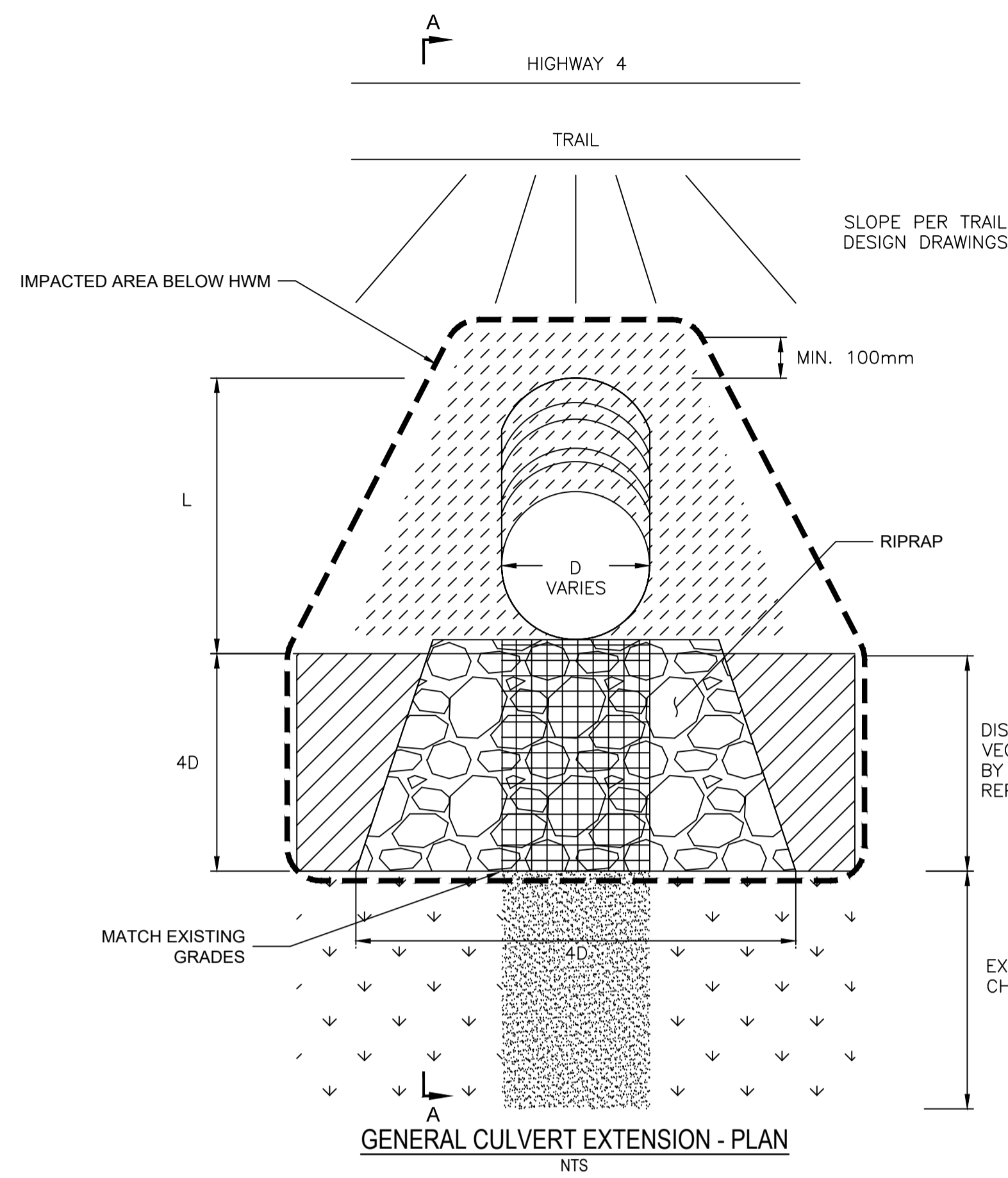


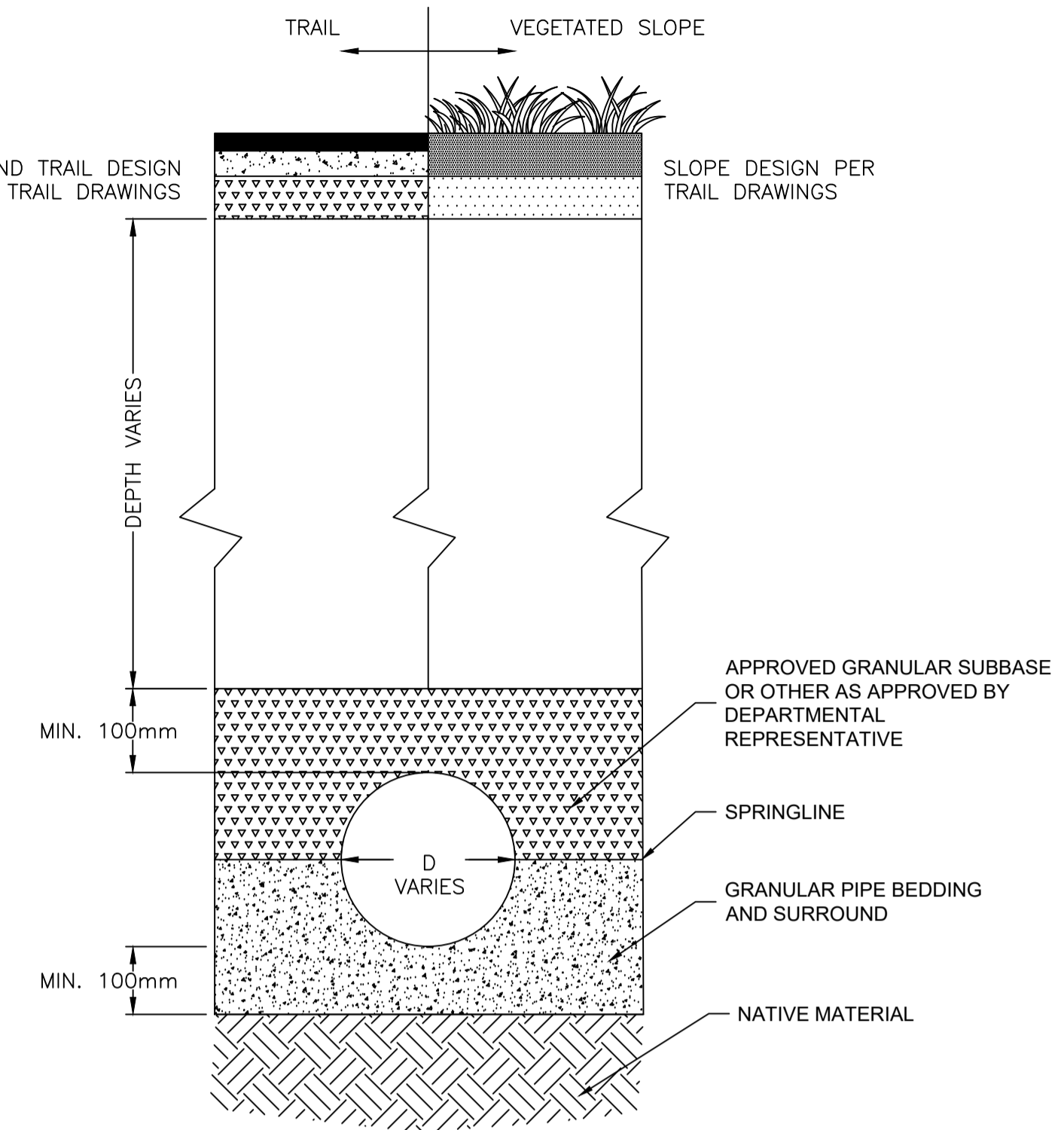
PARSONS



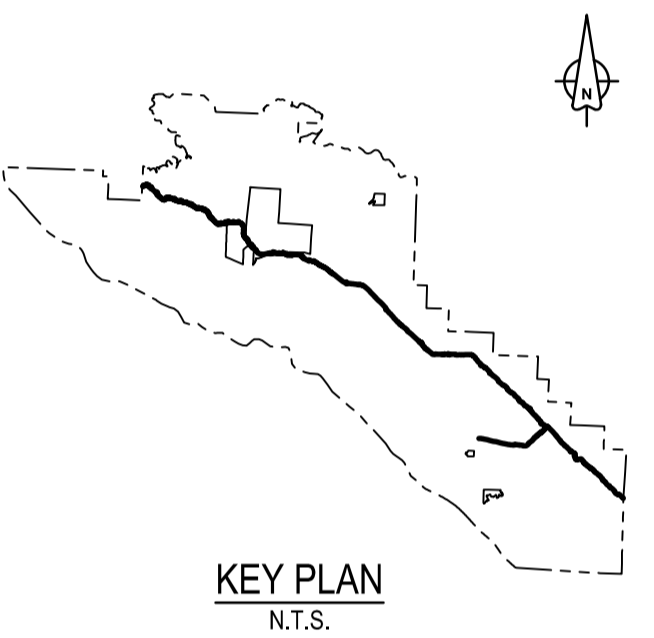
- COVER PROTRUDING CULVERT END WITH FILL AND VEGETATE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE
- CHANNEL PROTECTION AREA - VEGETATE OR RESTORE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE
- REPLACE RIP RAP WITH APPROVED FISHERIES (SPAWNING GRAVEL) IF REQUIRED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE

NOTES:

1. LENGTH AND WIDTH OF RIP RAP APRON TO BE 4D OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
2. APPROVED SPAWNING GRAVEL TO BE APPLIED INSTEAD OF RIP RAP WITHIN THE STREAMBED OF A FLOWING CHANNEL.
3. ALL EXPOSED AREAS TO BE VEGETATED OR OTHERWISE RESTORED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
4. FISHERIES FEATURES, EG. FISH BAFFLES OR OTHER STREAM ENHANCEMENTS, TO BE ADDED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR. FISH-BEARING WATERCOURSES ARE IDENTIFIED IN DRAWINGS D-1 & D-2.
5. IMPACTED AREA BELOW HIGH WATER MARK AND RIP RAP AREA FOR EACH CULVERT INDICATED ON DRAWINGS D-1 & D-2.
6. DIMENSION "L" (LENGTH OF CULVERT EXTENSION INDICATED ON DRAWINGS D-1 & D-2. TYPICAL WIDTH OF IMPACTED AREA EQUALS 4 TIMES THE DIAMETER OF THE PIPE PLUS A 0.5 METRE BUFFER ON EITHER SIDE OF THE IMPACTED AREA.
7. FRONT FACE OF ENVIROGRID WALL OR EQUIVALENT SHOULD BE FILLED WITH LOCALLY SALVAGED ORGANIC MATERIAL AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR.
8. COUPLER TO BE ANNULAR CORRUGATED COUPLER OR APPROVED EQUAL FOR CSP CULVERTS, HDPE COUPLING BAND OR APPROVED EQUAL FOR HDPE CULVERTS C/W WATERTIGHT GASKET.
9. END OF EXISTING CULVERT TO BE TRIMMED IF THERE IS ANY DAMAGE OR DEFORMATIONS WHERE THE COUPLER WILL BE ADDED.
10. END OF NEW CULVERT TO BE MINIMUM 0.50m FROM NEW TOE OF SLOPE AND A MAXIMUM OF 1.0m FROM NEW TOE OF SLOPE. LENGTH OF NEW CULVERT VARIES ACCORDINGLY.
11. GRANULAR BEDDING TO SUPPORT COUPLER AND NEW CULVERT PER TYPICAL TRENCH DETAIL.
12. RIP RAP APRON TO BE CLASS 10 RIP RAP, MINIMUM 300mm DEEP AT APRON AS SHOWN IN SECTION A-A. FISHERIES GRAVEL TO BE USED IN THE STREAMBED WHERE REQUIRED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR. FISH-BEARING WATERCOURSES ARE IDENTIFIED IN DRAWINGS D-1 & D-2.
13. IN-STREAM WORKS MAY ONLY PROCEED UNDER DFO APPROVAL. PERMIT TO BE SECURED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR.
14. WORKS WITHIN THE RIPARIAN AREA TO BE IN COMPLIANCE WITH THE ENVIRONMENTAL PROCEDURES SPECIFICATION 01-35-43.



TYPICAL BEDDING DETAIL
NTS



Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	18/12/2016
1	ISSUED FOR TENDER	30/11/2017
0	ISSUED FOR TENDER	27/10/2017

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
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"Going in the right direction on the trail"

Consultant Signature Only

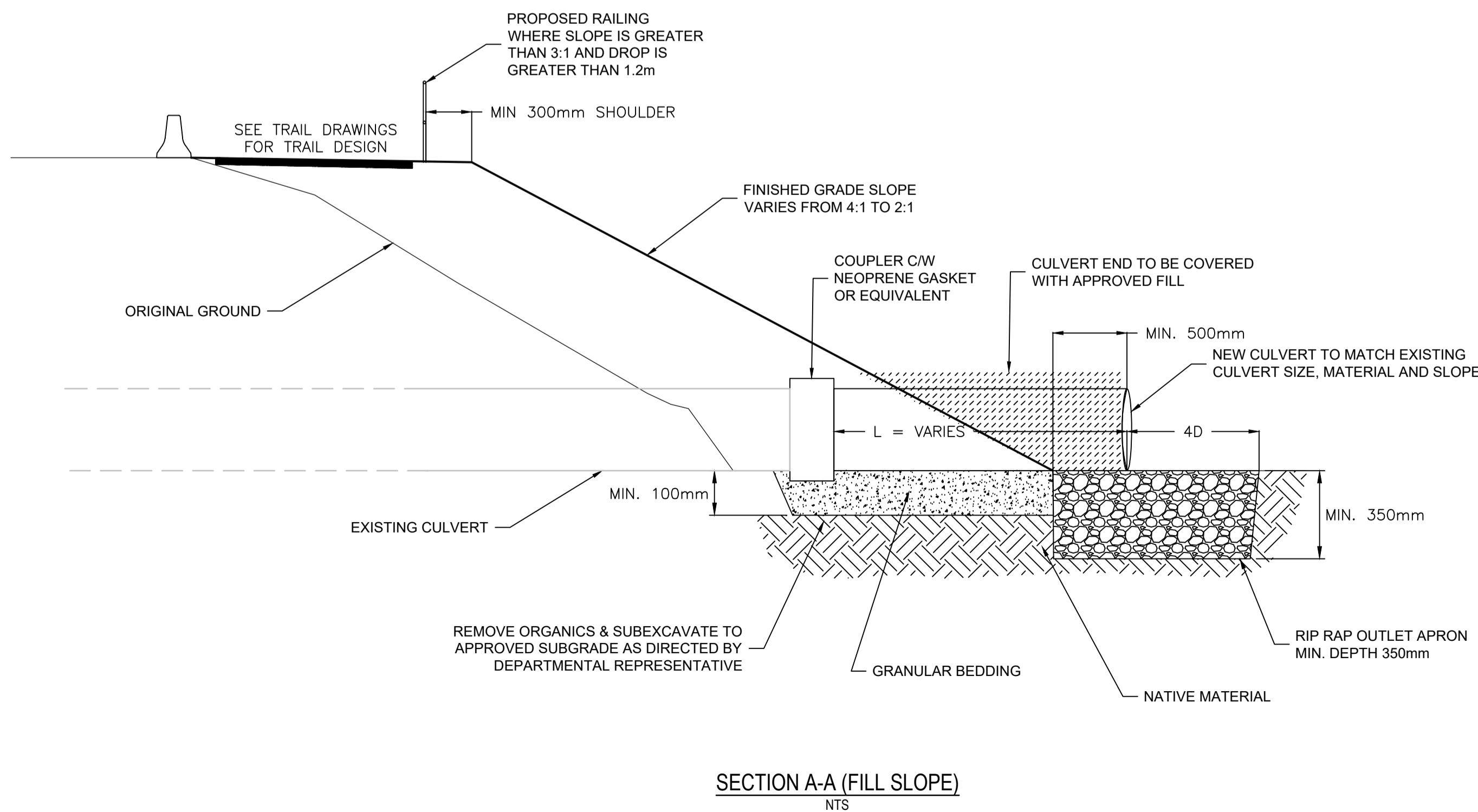
Designed by/Concept par
DON CHALMERS / 2016-11
Drawn by/Dessiné par
DAVID COX / 2016-11

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

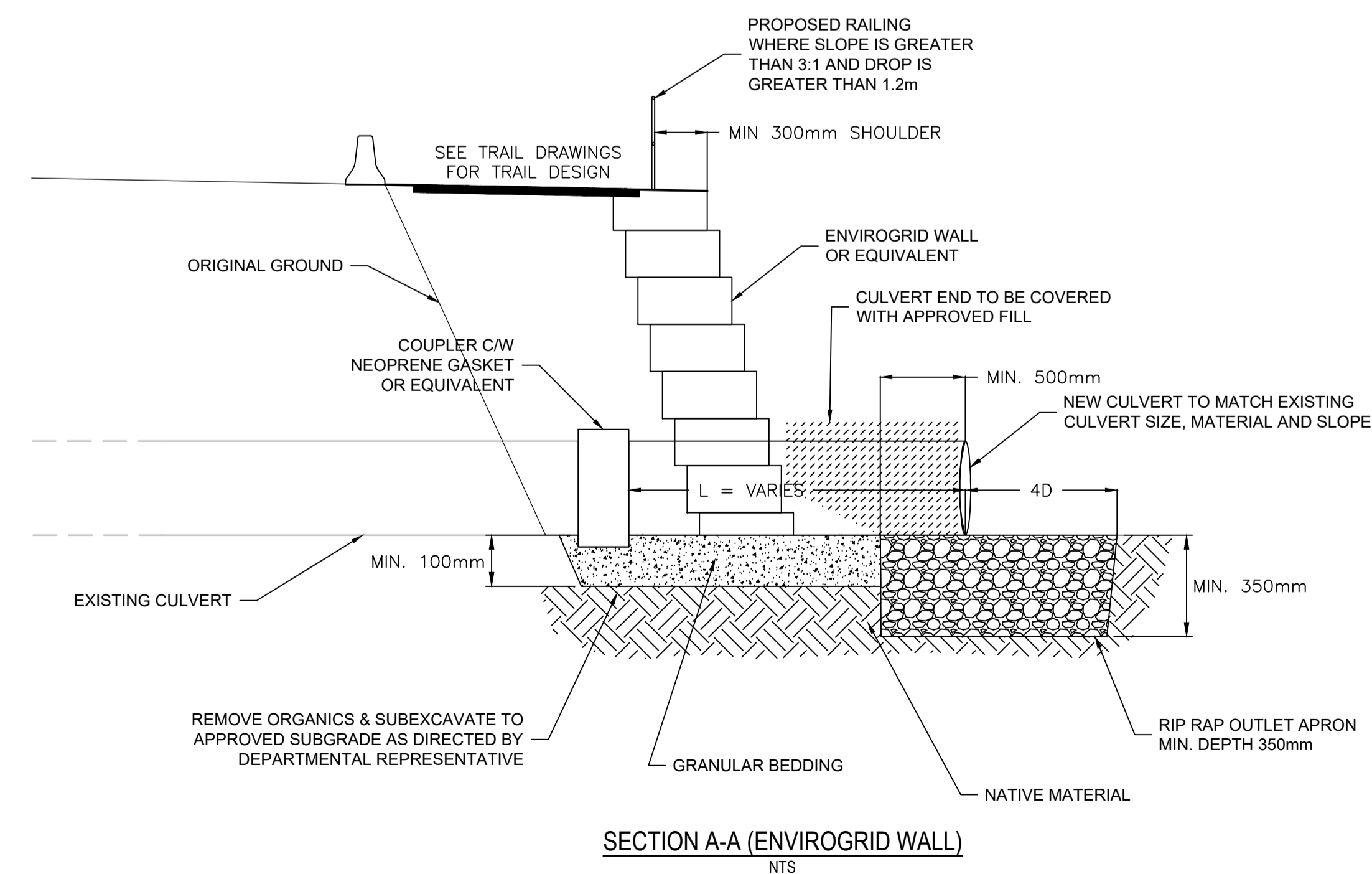
Drawing title/Titre du dessin
ᑭᐱᓂᓕᓴᓴ (Ups-cheek ta-shee)
"Going in the right direction on the trail"
TRAIL DESIGN

TYPICAL CULVERT EXTENSION DETAIL

Project No./No. du projet PCA #1522	Sheet/Fauille D-3 OF	Revision no./La Révision no. 2
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SECTION A-A (FILL SLOPE)
NTS



SECTION A-A (ENVIROGRID WALL)
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