

1	ISSUED FOR TENDER	15/07/22
Revision/ Révision	Description/Description	Date/Date

Client/Client



Parks Canada  
Agence

Western and  
Northern Region

L'Agence Parcs  
Canada

Ouest et Nord  
du Canada

# Canada

Project title/Titre du projet

**PRINCE ALBERT NATIONAL PARK**  
53°57'10.1"N 106°05'26.3"W

**WASKESIU MARINA ROAD**

Approved by/Approuvé par

Designed by/Concepté par  
**WSP CANADA INC.**

Drawn by/Dessiné par  
**D. LEIBEL**

PWSSC Project Manager/Administrateur de Projets TPSGC  
**MICHAEL J. CASWELL**

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

Client/client  
**PARKS CANADA AGENCY**

Drawing title/Titre du dessin

**LOCATION PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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## INFORMATION TO BIDDERS ON GRADING

### A. Design Shrinkage Factors

1. Waskesiu Marina Road = 1.25

### B. Earth Excavation

1. (a) Earth Excavation = 7 520 m<sup>3</sup>  
(b) 5 % Adjustment = 380 m<sup>3</sup>

2. (a) Design Subcut (Adj. by the S.F.) = 2 090 m<sup>3</sup>  
(b) 5 % Adjustment = 100 m<sup>3</sup>

### 3. Additional Quantities

(a) Culvert Excavation = 285 m<sup>3</sup>  
(b) Surplus Rock Replacement = 100 m<sup>3</sup>  
(c) Failure Repair = 200 m<sup>3</sup>  
(d) Miscellaneous = 225 m<sup>3</sup>

TOTAL Quantity Bid Item No. 2200.06 = 10 900 m<sup>3</sup>

### C. Haul

1. (a) Estimated Haul = 7 000 m<sup>3</sup>.hm

TOTAL (Haul Included in Bid Item No. 2200.06) = 7 000 m<sup>3</sup>.hm

The breakdown of quantities shown above is approximate and intended for information purposes only. No claims will be considered on the basis of the information shown above except as already provided for in the General Provisions of the Contract.

project title

**WASKESIU MARINA ROAD  
PRINCE ALBERT NATIONAL PARK**

drawing title

**INFORMATION TO BIDDERS ON GRADING**

approved by

PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

date

**15/07/23**

drawn by

**H.WALTON**

project no.

sheet

**2 OF 7**

REV.



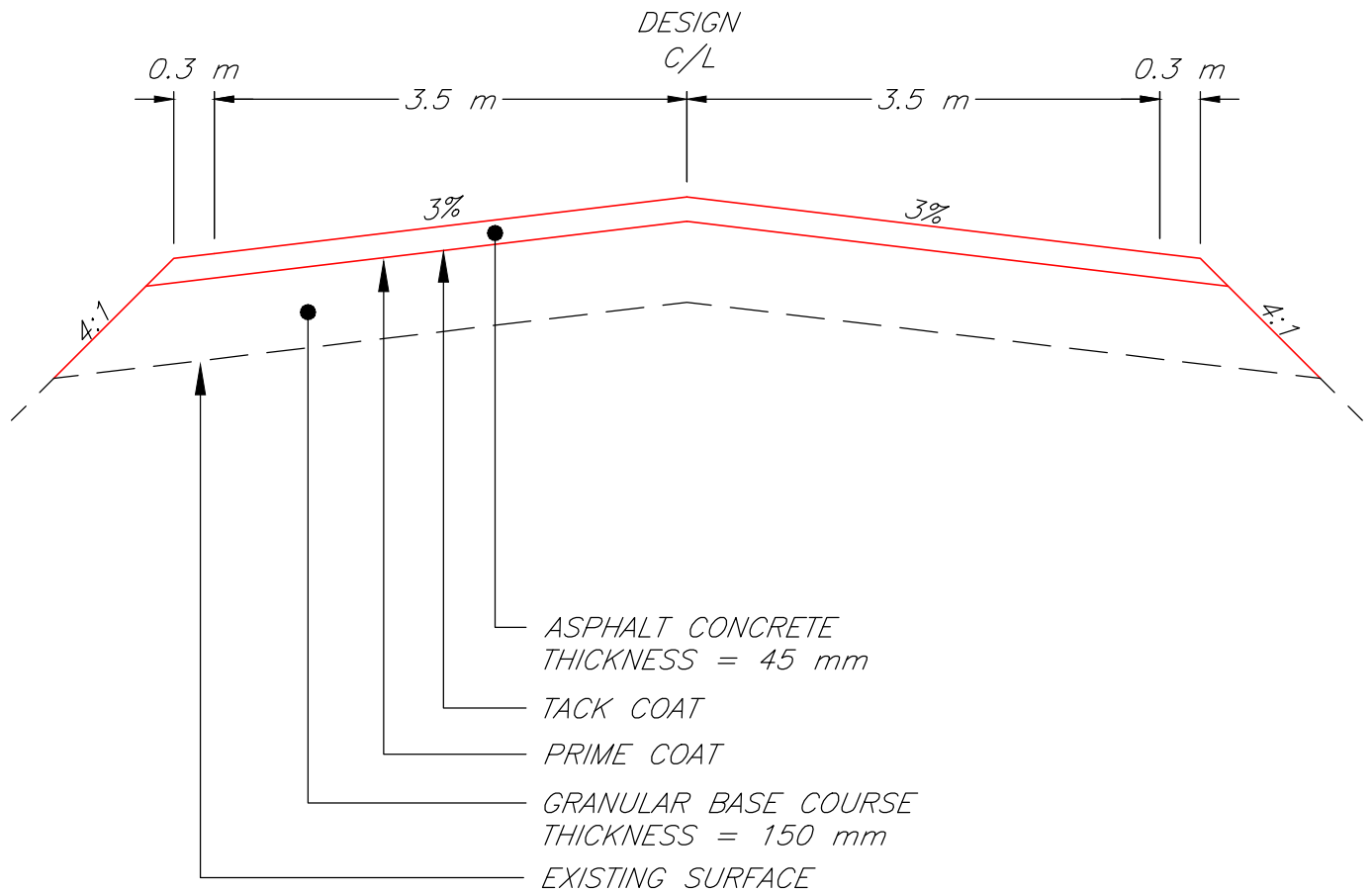


ACCESS ROAD

STATION 0+000 TO STATION 0+030  
STATION 0+184 TO STATION 0+305  
STATION 0+330 TO STATION 0+415  
STATION 0+450 TO STATION 0+720

NORTH ROAD

STATION 10+000 TO STATION 10+030  
STATION 10+047 TO STATION 10+216



project title

**WASKESIU MARINA ROAD  
PRINCE ALBERT NATIONAL PARK**

drawing title

**TYPICAL CROSS-SECTION**

approved by

PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

date

**15/07/23**

drawn by

**D.LEIBEL**

project no.

sheet

**3 OF 7**

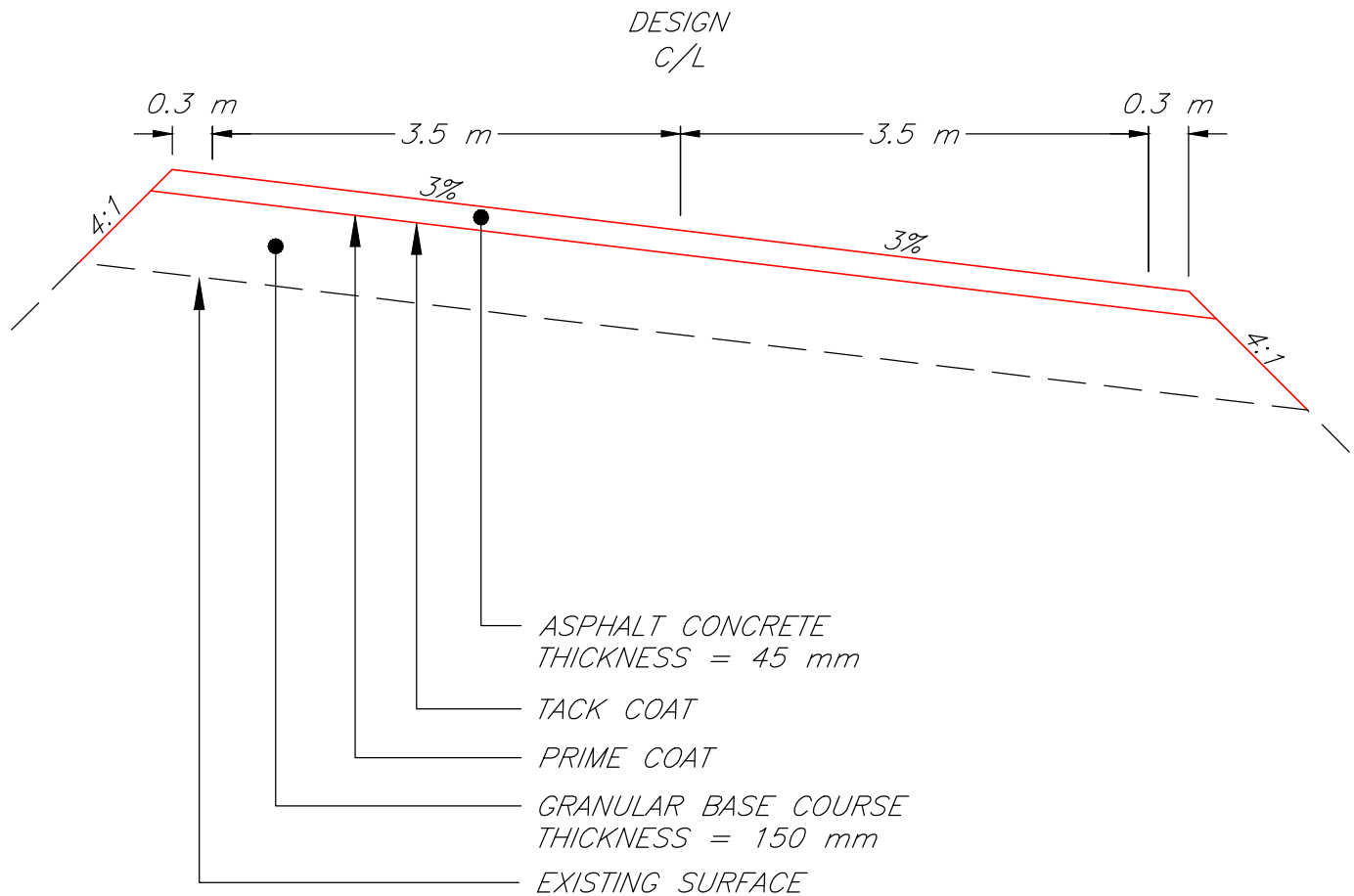
REV.





ACCESS ROAD

STATION 0+030 TO STATION 0+184  
STATION 0+415 TO STATION 0+450



project title

**WASKESIU MARINA ROAD  
PRINCE ALBERT NATIONAL PARK**

drawing title

**TYPICAL CROSS-SECTION**

approved by

PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

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**15/07/23**

drawn by

**D.LEIBEL**

project no.

sheet

**4 OF 7**

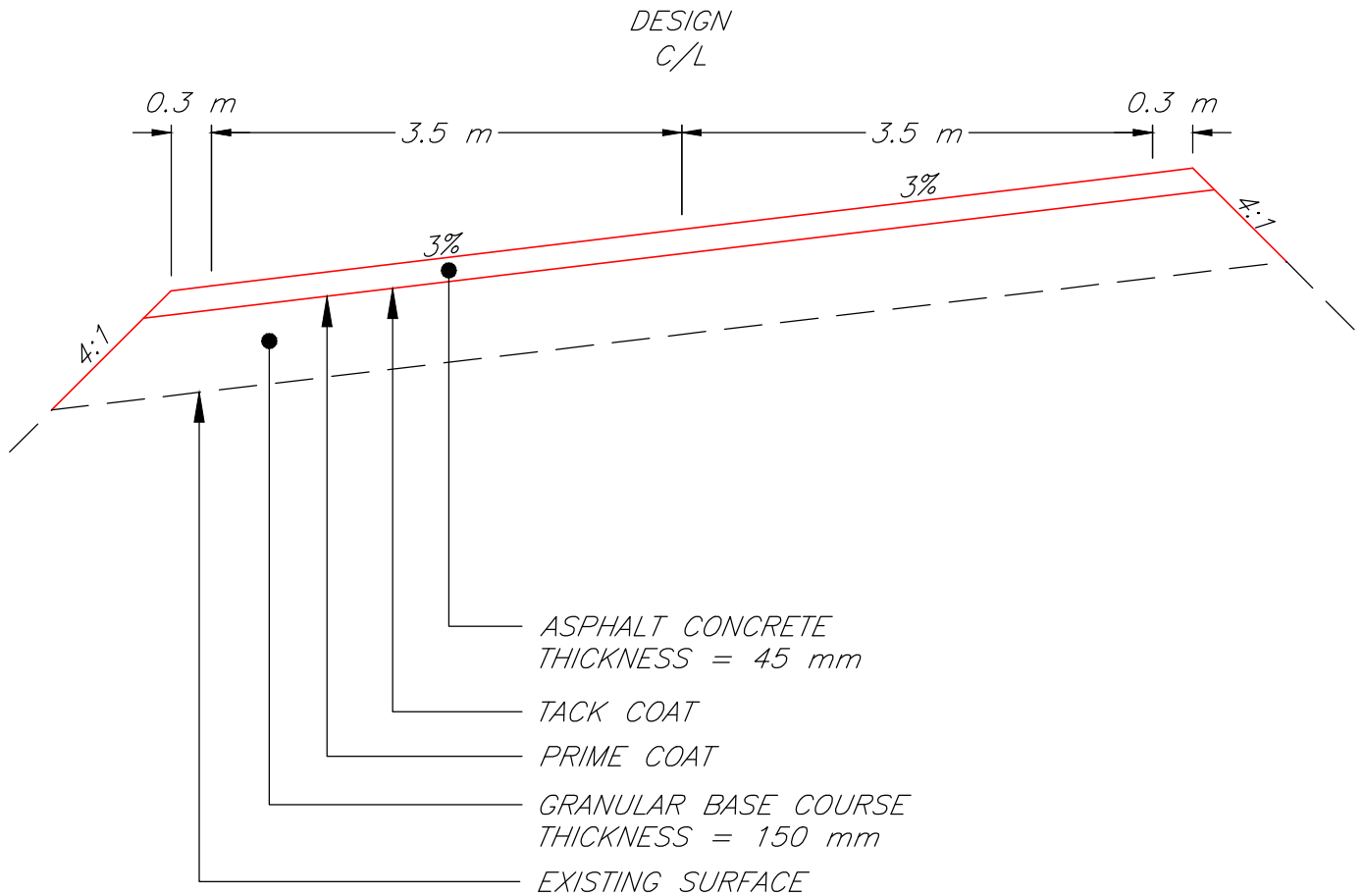
REV.





ACCESS ROAD  
STATION 0+305 TO STATION 0+330

NORTH ROAD  
STATION 10+030 TO STATION 10+047



project title

**WASKESIU MARINA ROAD  
PRINCE ALBERT NATIONAL PARK**

drawing title

**TYPICAL CROSS-SECTION**

approved by

PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

date

**15/07/23**

drawn by

**D.LEIBEL**

project no.

sheet

**5 OF 7**

REV.





ACCESS ROAD

STATION 0+720 TO STATION 0+999

NORTH ROAD

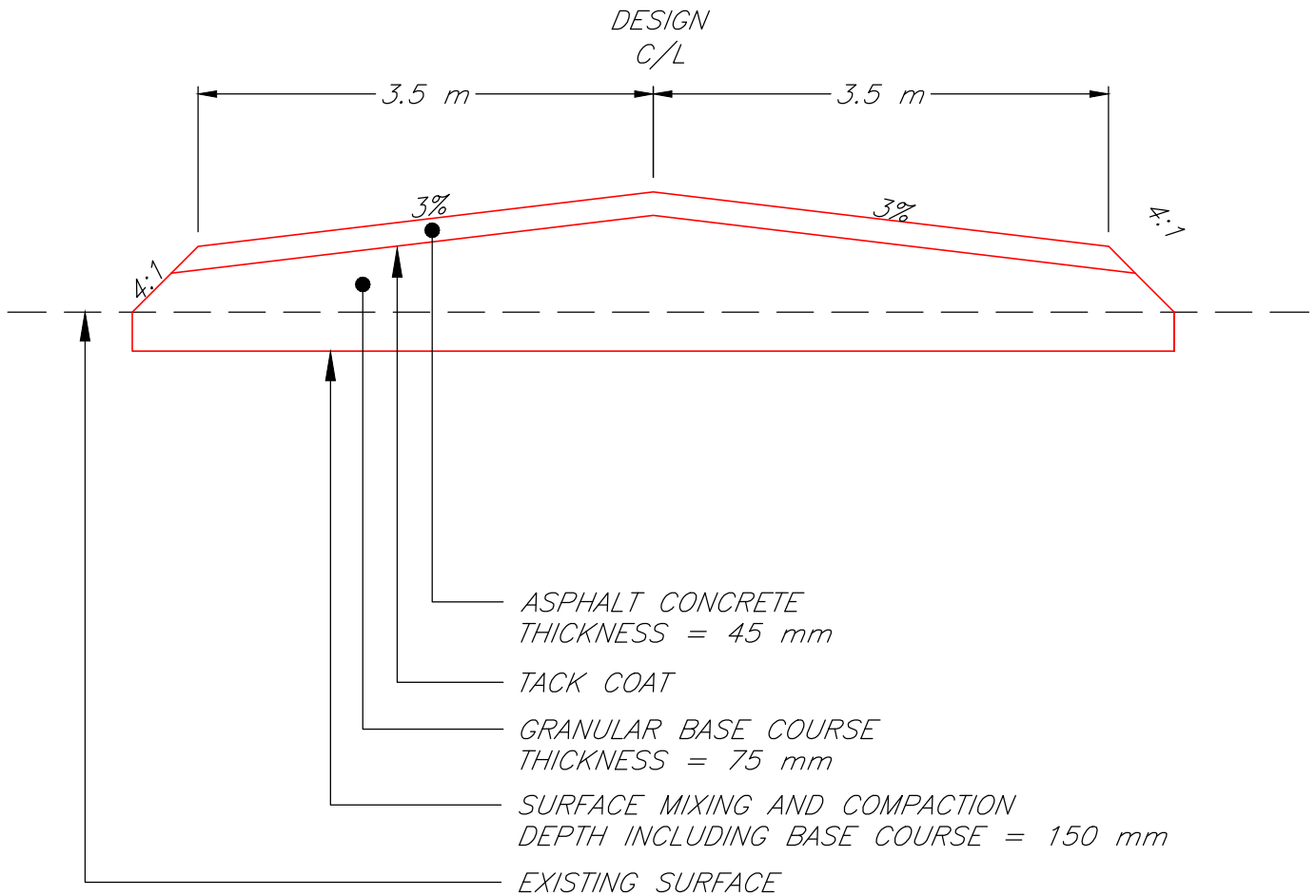
STATION 10+216 TO STATION 10+337

MIDDLE ROAD

STATION 20+000 TO STATION 20+134

CONNECTOR ROAD

STATION 40+000 TO STATION 40+037



project title

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PRINCE ALBERT NATIONAL PARK**

drawing title

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PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

date

**15/07/23**

drawn by

**D.LEIBEL**

project no.

sheet

**6 OF 7**

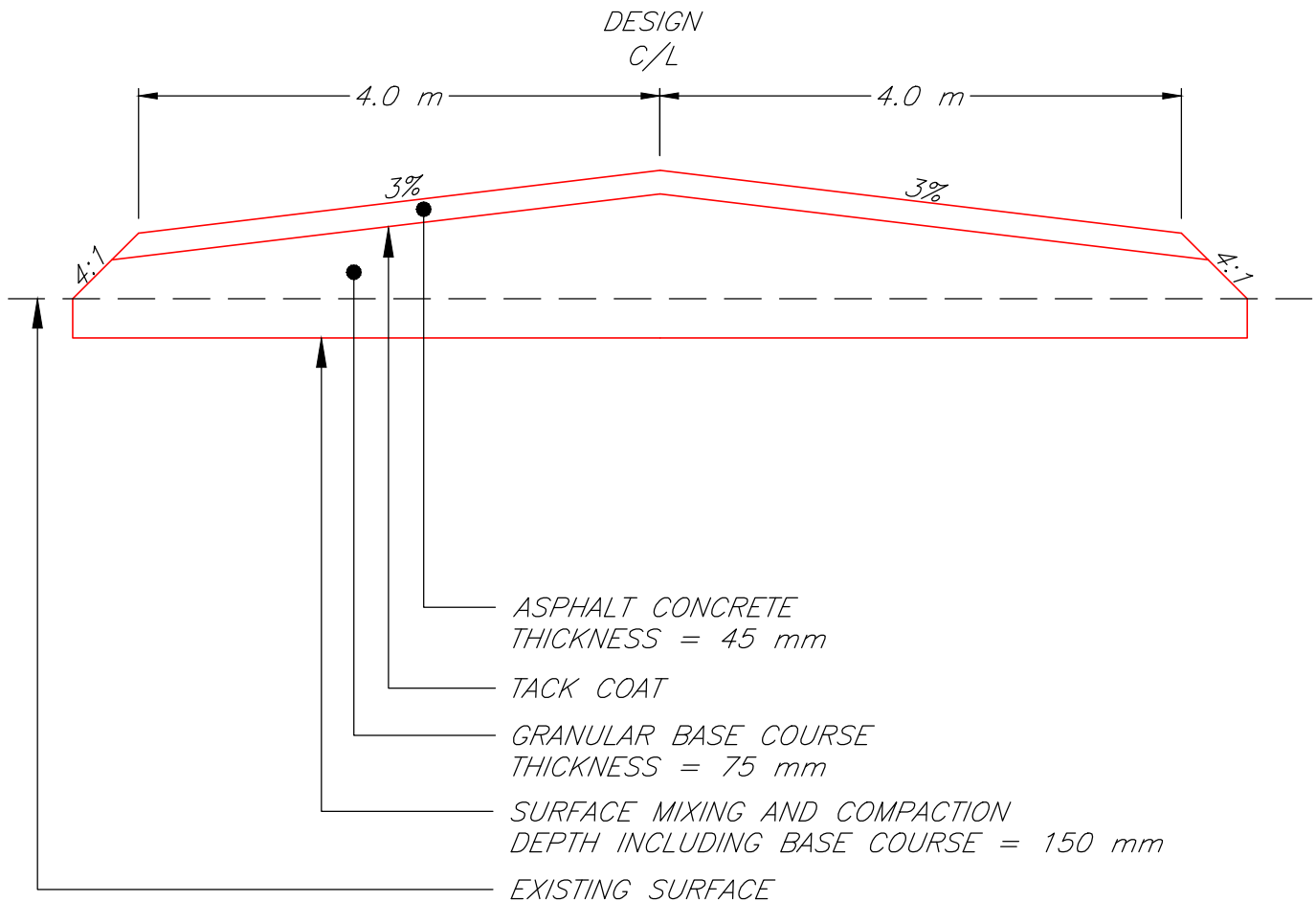
REV.





PARKING AREA 1

STATION 30+000 TO STATION 30+172



project title

**WASKESIU MARINA ROAD  
PRINCE ALBERT NATIONAL PARK**

drawing title

**TYPICAL CROSS-SECTION**

approved by

PWGSC Project  
Manager

**MICHAEL J CASWELL**

scale

designed by

**WSP CANADA INC.**

PWGSC, Architectural and Engineering Resources Manager

date

**15/07/23**

drawn by

**D.LEIBEL**

project no.

sheet

**7 OF 7**

REV.



INDEX

DESIGNED BY:	_____	DESIGN ENGINEER, WSP	_____	DATE
REVIEWED BY:	_____	PROJECT MANAGER, WSP	_____	DATE
REVIEWED BY:	_____	PWGSC PROJECT MANAGER	_____	DATE

## INDEX

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## CONSTRUCTION ENGINEERING

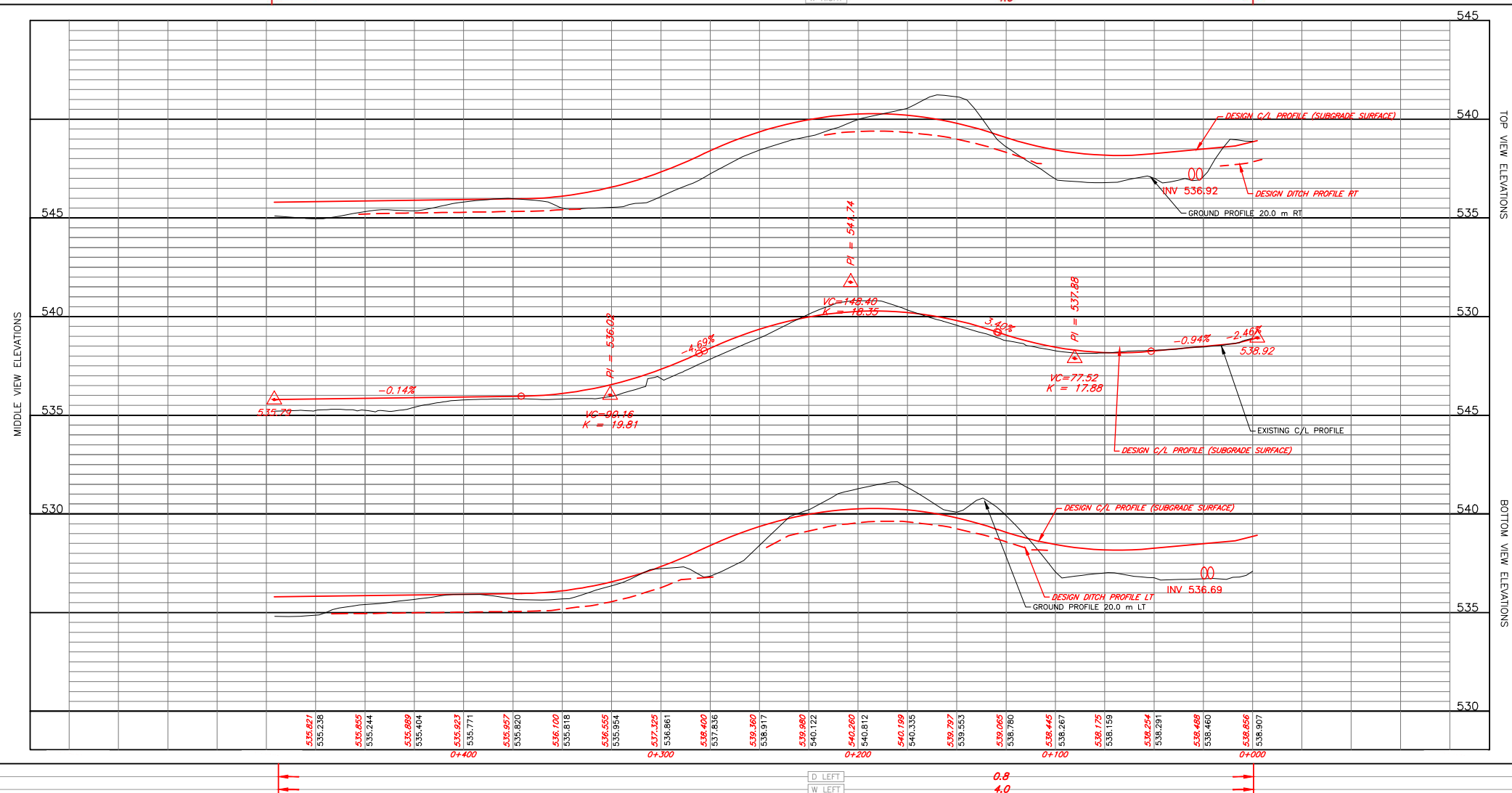
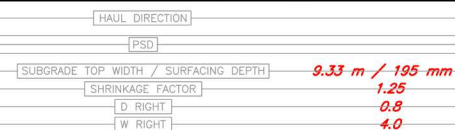
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PROJECT MANAGER DATE



GENERAL SUPERVISION BY: \_\_\_\_\_  
SENIOR PROJECT MANAGER DATE

CONTRACT NO

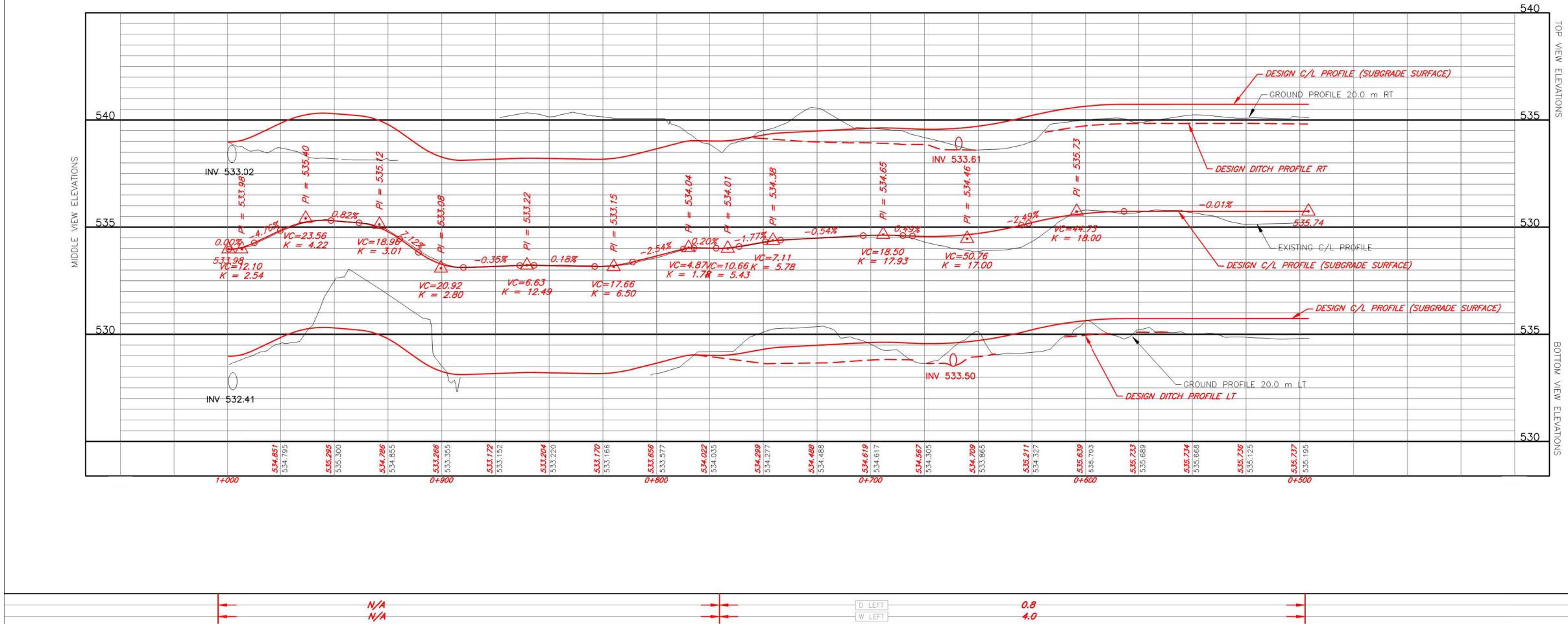
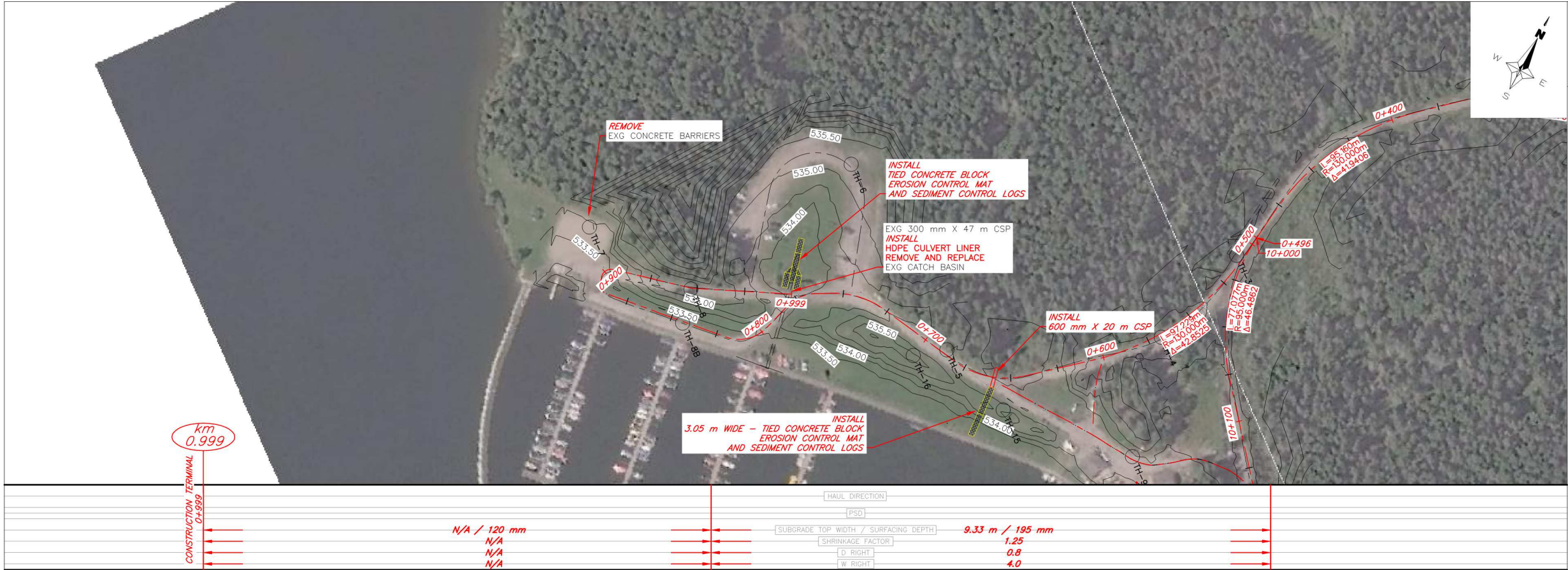
SHEET 1 OF 10





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Approved by/Approuvé par		
Designed by/Concept par WSP CANADA INC.		
Drawn by/Dessiné par S.BUCHKO		
PWGSC Project Manager/Administrateur de Projets TPSGC MICHAEL J. CASWELL		
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC		
Client/client PARKS CANADA AGENCY		
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<b>PLAN AND PROFILE</b> <b>ACCESS ROAD</b>		
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
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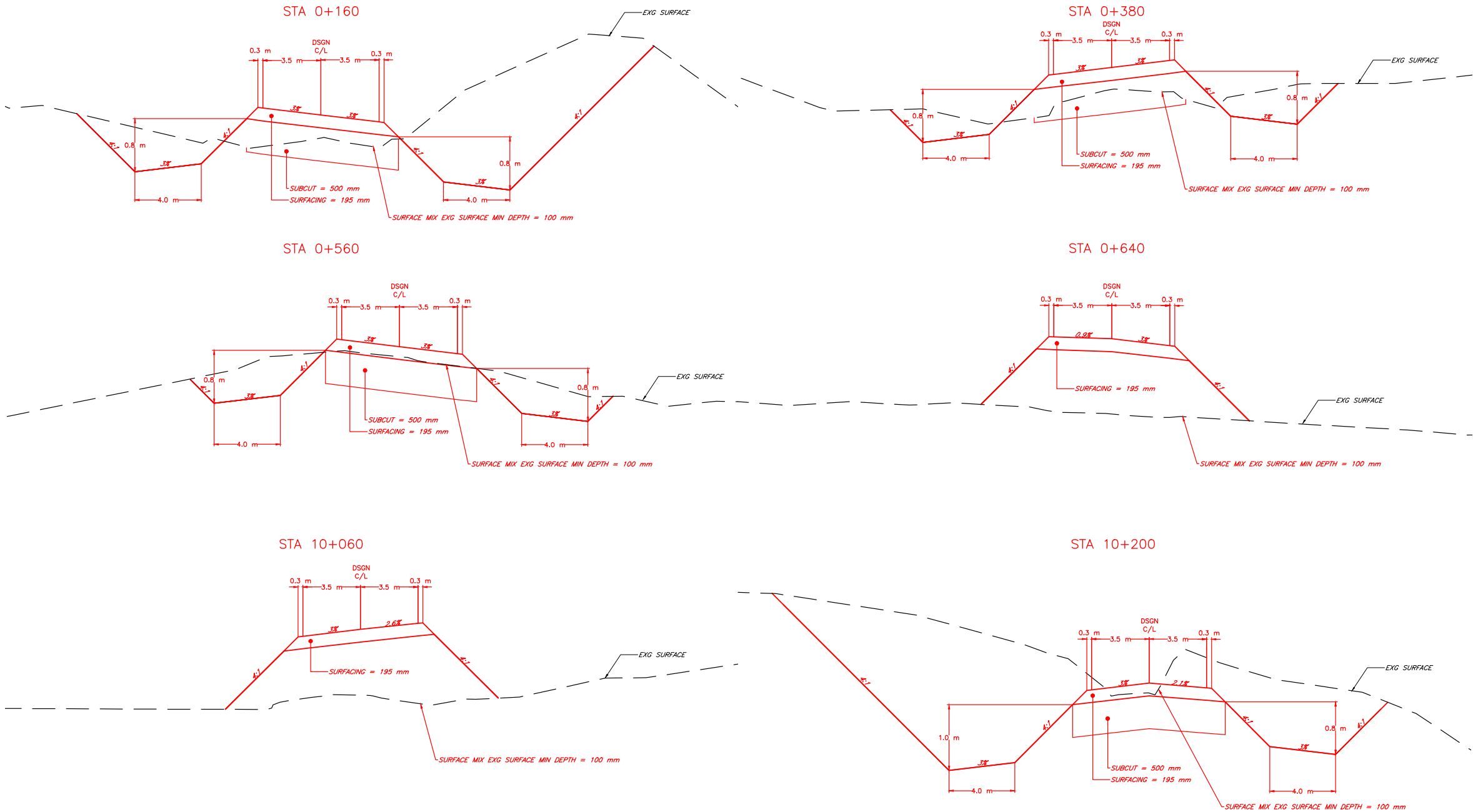


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<div><div>Canada</div><div>Project title/Titre du projet</div><div>PRINCE ALBERT NATIONAL PARK 53°57'10.1"N 106°05'26.3"W</div><div>WASKESIU MARINA ROAD</div></div>		
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Client/client PARKS CANADA AGENCY		
Drawing title/Titre du dessin		
<div>PLAN AND PROFILE ACCESS ROAD</div>		
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PWGSC Project Manager/Administrateur de Projets TP50C MICHAEL J. CASWELL		
PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TP50C		
Client/client PARKS CANADA AGENCY		
Drawing title/Titre du dessin		
<p>PLAN AND PROFILE</p> <p>NORTH ROAD</p>		
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FWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

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EXAMPLE CROSS SECTIONS

Project No./No. du projet	Sheet/Feuille <b>5</b> OF 10	Revision no./La Révision no. <b>1</b>
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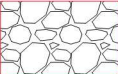




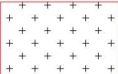
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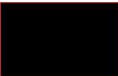
SURFACE MIXING AND COMPACTION  
GRADING  
150 mm GRANULAR BASE COURSE  
45 mm ASPHALT CONCRETE



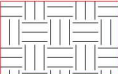
100 mm RECLAIMED ASPHALT PAVEMENT



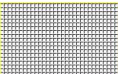
SURFACE MIXING AND COMPACTION  
75 mm GRANULAR BASE COURSE  
45 mm ASPHALT CONCRETE



25 mm ASPHALT CONCRETE



CLEARING AND GRUBBING



TIED CONCRETE BLOCK EROSION CONTROL  
MAT



BORROW AREA

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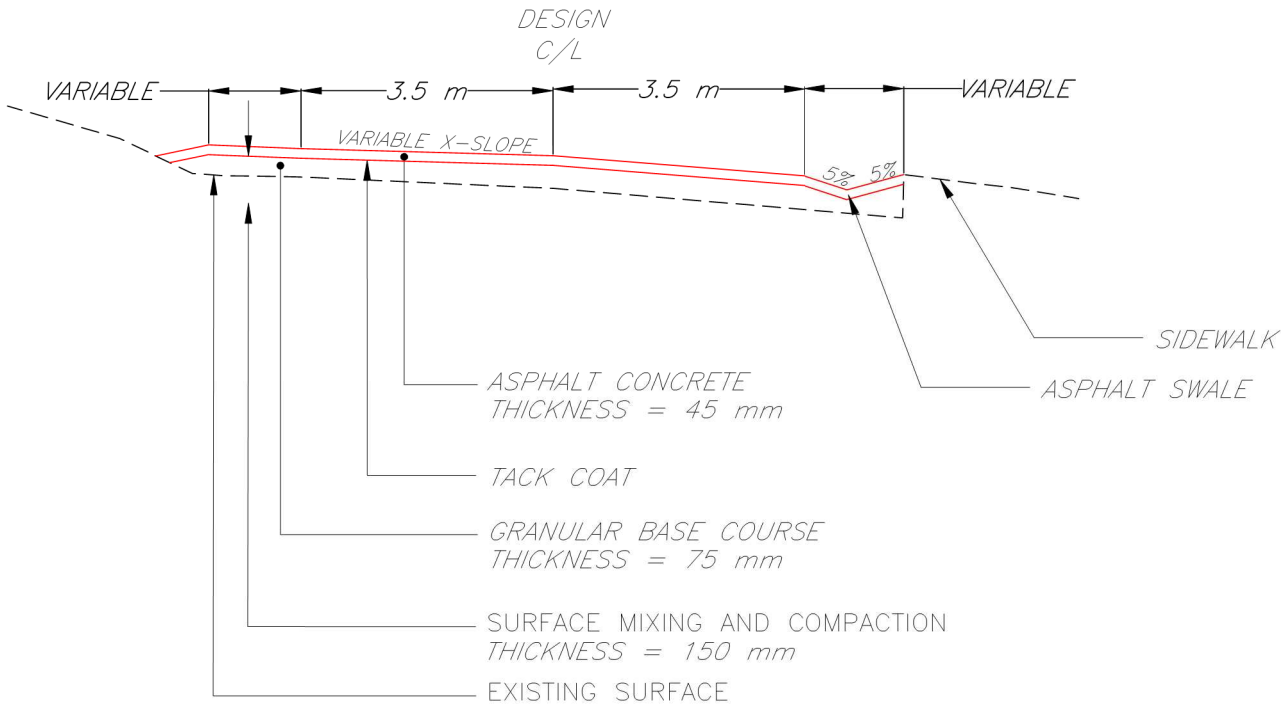
Drawing title/Titre du dessin

PROJECT OVERVIEW

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SECTION A-A



LEGEND



ASPHALT SWALE



Canada

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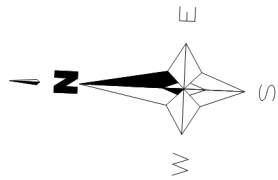
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PARKS CANADA AGENCY**

Drawing title/Titre du dessin

**DRAINAGE DETAIL**

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LEGEND

- ROAD
- UNDER GROUND POWER
- SEWER/SANITARY
- WATER LINE
- TELEPHONE LINE
- PEDISTAL
- TRANSFORMER
- LAMP
- MANHOLE
- LIFT STATION
- SEPTIC HATCH
- VAULT

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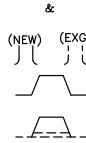








Client/client  
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Drawing title/Titre du dessin

**UTILITY LOCATION PLAN**

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GENERAL											
A	ABUTMENT . . . . . ABUT AGGREGATE . . . . . AGGR AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS . . . . . AASHTO AMERICAN SOCIETY FOR TESTING MATERIALS . . . . . ASTM AMERICAN WELDING SOCIETY . . . . . AWS AND APPROACH . . . . . APP APPROACH WITH NO PIPE (PROFILE) APPROACH WITH PIPE (PROFILE) FARM APPROACH . . . . . F APP ROAD APPROACH . . . . . RD APP APPROXIMATE . . . . . APPROX ASPHALT CONCRETE . . . . . AC AVENUE . . . . . AVE AVERAGE . . . . . AVG AVERAGE ANNUAL DAILY TRAFFIC . . . . . AADT AVERAGE DAILY TRAFFIC . . . . . ADT AVERAGE DAILY TRUCK TRAFFIC . . . . . ADTT AZIMUTH . . . . . AZ		CURB BARRIER CURB DEPRESSED CURB MOUNTABLE CURB CURB AND GUTTER BARRIER CURB AND GUTTER DEPRESSED CURB AND GUTTER MOUNTABLE CURB AND GUTTER CURVE CURVE – SPIRAL . . . . . CS CURVE – TANGENT . . . . . CT VERTICAL CURVE . . . . . VC VERTICAL CURVE CONSTANT (1% GRADE CHANGE)	NOTE: ABBREVIATIONS AND SYMBOLS IN ADDITION TO THOSE LISTED HEREIN SHOULD BE IN ACCORDANCE WITH CANADIAN STANDARDS ASSOCIATION "ABBREVIATIONS FOR SCIENTIFIC AND ENGINEERING TERMS" ANY ADDITIONS SHALL BE LISTED IN THE LEGEND OF THE PLAN(S) ON WHICH THEY APPEAR OR ON A SEPARATE DRAWING TITLED "SUPPLEMENTARY ABBREVIATIONS AND SYMBOLS".		M (NEW) (REVISE) (EXG) MAINTENANCE . . . . . MAINT MANHOLE . . . . . MH MARK . . . . . MK MARSH, MUSKEG MATERIAL . . . . . MATL MAXIMUM . . . . . MAX MINIMUM . . . . . MIN					
	N 						NATURAL GAS . . . . . NG NATURAL GAS MARKER NATURAL GAS PIPE LINE NORTHBOUND . . . . . NB NORTHBOUND LANE . . . . . NBL NOT TO SCALE . . . . . NTS NUMBER . . . . . NO				
	O O/S O O						OFFSET . . . . . OFS OIL PIPELINE OUTSIDE DIAMETER . . . . . OD OUT TO OUT . . . . . O TO O				
B	BACK SIGHT . . . . . BS BALANCE POINT . . . . . BP CONTROL BALANCE POINT . . . . . CBP DESIGN BALANCE POINT . . . . . BP BEARING . . . . . BRG BENCH MARK . . . . . BM BITUMINOUS . . . . . BITUM BLOCK . . . . . BLK BOULEVARD . . . . . BLVD BOUNDARY . . . . . BDRY BRIDGE . . . . . BR BUILDING . . . . . BLDG	 BM 	D  ø Q →	DEAD HAUL . . . . . DH DEFLECTION . . . . . DEFL DEGREE DELINEATOR DEPARTMENT . . . . . DEPT DESIGN . . . . . DSGN DESIGN HOUR VOLUME . . . . . DHV DIAMETER . . . . . DIA INSIDE DIAMETER . . . . . ID OUTSIDE DIAMETER . . . . . OD DIRECTION EAST . . . . . E. NORTH . . . . . N. SOUTH . . . . . S. WEST . . . . . W. DISCHARGE . . . . . DISCH DISTRICT . . . . . DIST DITCH DITCH BLOCK . . . . . DB DITCH DEPTH . . . . . D DITCH GRADE . . . . . DG DITCH WIDTH . . . . . W DRAINAGE DIRECTION OF DRAINAGE DRAINAGE AREA . . . . . DA DRAINAGE DITCH . . . . . DD DRAWING . . . . . DWG	F (NO OF WIRES) X X <> <> X X " " " "	FENCE BARBED WIRE FENCE . . . . . BWF CHAIN LINK FENCE . . . . . CLF SNOW FENCE . . . . . SNF WOVEN WIRE FENCE . . . . . WWF FOOTING . . . . . FTC FORE SIGHT . . . . . FS FREE ON BOARD . . . . . FOB					
	C					CANADIAN GOVERNMENT SPECIFICATION BOARD . . . . . CGSB CANADIAN NATIONAL RAILWAY . . . . . CNR CANADIAN PACIFIC RAILWAY . . . . . CPR CANADIAN STANDARDS ASSOCIATION . . . . . CSA CATCH BASIN . . . . . CB CENTRE CENTRELINE . . . . . CL CENTRE TO CENTRE . . . . . C TO C ON CENTRE . . . . . OC CLEARING . . . . . CLRG COINCIDING . . . . . COINC CONCRETE . . . . . CONC CONCRETE CURB . . . . . CC CONCRETE CURB & GUTTER . . . . . CC & G CONSTRUCTION . . . . . CONSTR CONTROL SECTION . . . . . CS COURSE . . . . . CRS CULVERT CULVERT ON PLAN CULVERT ON PROFILE FRAMED TIMBER CULVERT . . . . . FTC		N 	P (NEW) (EXG) / % PIPE CORRUGATED POLYETHYLENE PIPE . . . . . CPP CORRUGATED STEEL PIPE . . . . . CSP CORRUGATED STEEL PIPE ARCH . . . . . CSPA REINFORCED CONCRETE PIPE . . . . . RCP STRUCTURAL PLATE CORRUGATED STEEL PIPE . . . . . SPCS CORRUGATED STEEL PIPE ARCH . . . . . SPCS STRUCTURAL PLATE PIPE . . . . . SPP STRUCTURAL PLATE PIPE ARCH . . . . . SPPA POINT . . . . . PT POINT OF INTERSECTION . . . . . PI POINT ON TANGENT . . . . . POT POWER POWER GUY WIRE AND ANCHOR POWER POLE LINE UNDERGROUND POWER CABLE UNDERGROUND POWER MARKER UNDERGROUND POWER PEDESTAL PROPERTY . . . . . PROP PROPERTY LINE . . . . . PL PROPOSED . . . . . PRPSD		LATITUDE . . . . . LAT LEFT . . . . . LT LENGTH . . . . . LG LENGTH OF CIRCULAR CURVE . . . . . Lc LENGTH OF SPIRAL . . . . . Ls LENGTH OF VERTICAL CURVE . . . . . VC LIGHT LIGHT CABLE . . . . . LC LIGHT STANDARD . . . . . LS LINEAR . . . . . LIN LONG DISTANCE . . . . . LD LONGITUDE . . . . . LONG
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ABBREVIATIONS AND SYMBOLS											
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.									
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