

PARKS CANADA AGENCY

EMERALD LAKE AND NATURAL BRIDGE

AECOM PROJECT No. 60560382

LIST OF PROJECT DRAWINGS

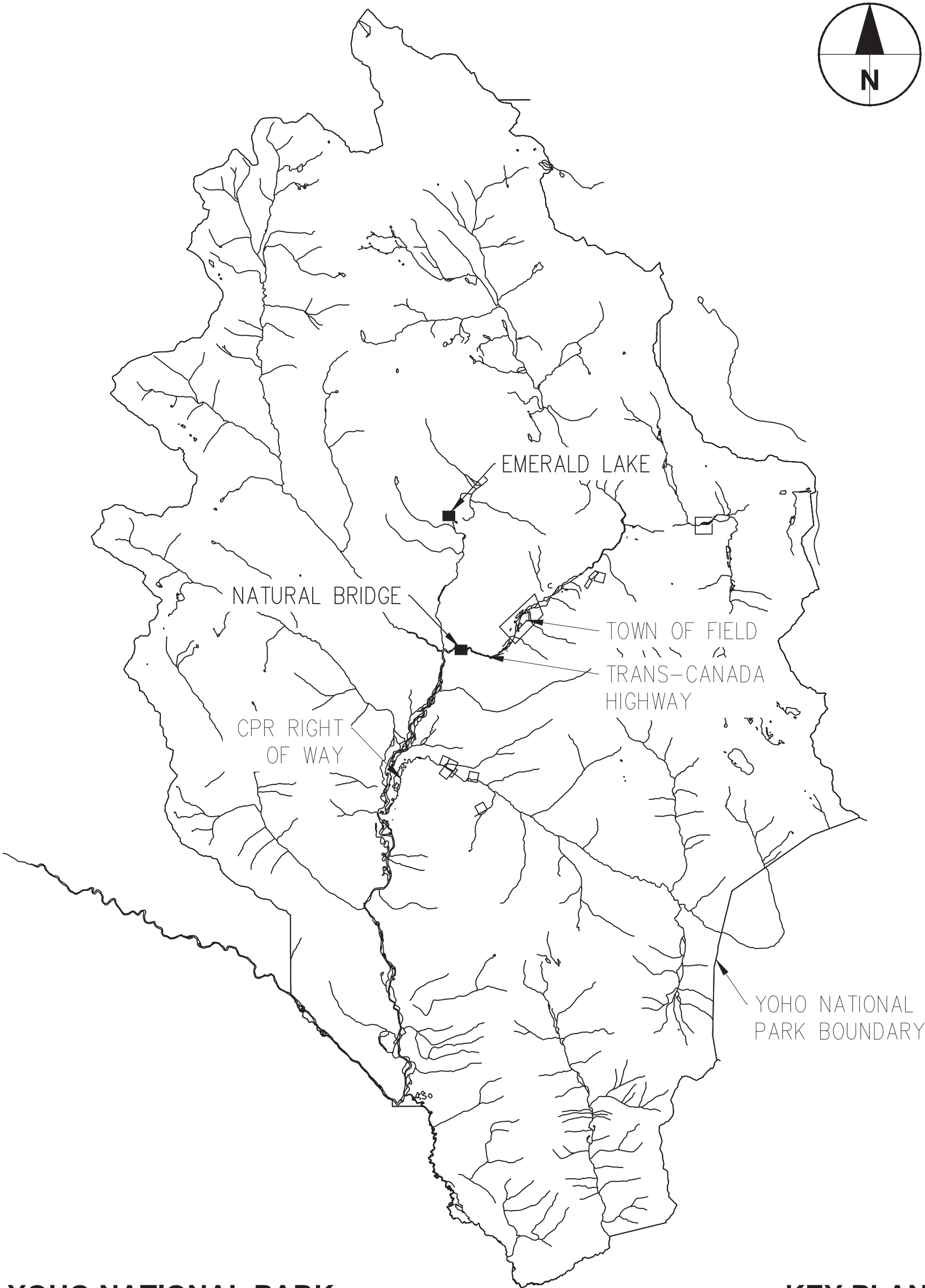
DRAWING No. DISCIPLINE DESCRIPTION

GENERAL

G-100 GENERAL COVER SHEET

LANDSCAPE

L-E100	LANDSCAPE	EMERALD LAKE EXISTING FEATURES AND REMOVALS PLAN
L-E101	LANDSCAPE	EMERALD LAKE LANDSCAPE PLAN
L-E400	LANDSCAPE	EMERALD LAKE LANDSCAPE DETAILS
L-E401	LANDSCAPE	EMERALD LAKE LANDSCAPE DETAILS
S-E100	STRUCTURAL	EMERALD LAKE STRUCTURAL NOTES
S-E101	STRUCTURAL	EMERALD LAKE STRUCTURAL DETAILS
L-N100	LANDSCAPE	NATURAL BRIDGE EXISTING FEATURES AND REMOVALS PLAN 1
L-N101	LANDSCAPE	NATURAL BRIDGE EXISTING FEATURES AND REMOVALS PLAN 2
L-N102	LANDSCAPE	NATURAL BRIDGE LANDSCAPE PLAN 1
L-N103	LANDSCAPE	NATURAL BRIDGE LANDSCAPE PLAN 2
L-N400	LANDSCAPE	NATURAL BRIDGE LANDSCAPE DETAILS
L-N401	LANDSCAPE	NATURAL BRIDGE LANDSCAPE DETAILS
L-N402	LANDSCAPE	NATURAL BRIDGE LANDSCAPE DETAILS



YOHO NATIONAL PARK

KEY PLAN

Scale: N.T.S.

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E	18.05.11	ISSUED FOR TENDER	JG/TW	DH/BN
D	18.04.07	ISSUED FOR 90% REVIEW	JG/TW	BN
C	18.03.05	ISSUED FOR 65% REVIEW	JG/TW	BN
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
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Detail number
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A Numéro de détail
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Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada



Project title/Titre du projet

EMERALD LAKE AND
NATURAL BRIDGE

Drawing title/Titre du dessin

COVER SHEET

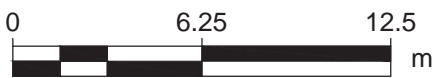
Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/05/11
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Échelle AS SHOWN
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Drawing Set No./Nº de série du dessin		G-100

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IMAGE SOURCE: BING MAPS

EMERALD LAKE



Scale: 1:250

LEGEND

- EXISTING PIT PRIVY (~6.0 m x ~4.0 m)
- EXISTING BOULDERS
- EXISTING ASPHALT TRAIL
- EXISTING GRANULAR SURFACE
- EXISTING TREE STAND/VEGETATION
- EXISTING TREE

NOTES:

- ALL RELOCATIONS TO BE REMOVED AND STORED ON SITE IN A SECURE LOCATION PENDING RELOCATION AS PER L-E101 OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



1 – HAMILTON FALLS SIGN



2 – BUS PARKING GREEN SIGN



3 – VEHICLE WEIGHT SIGN



4 – SIGN, PAYPHONE, AND MOVABLE BENCH



5 – RECEPTACLES AND PRIVIES



6 – BOULDERS, MOVABLE PICNIC TABLES



7 – INFORMATION KIOSK



8 – ASPHALT TRAIL



9 – AVALANCHE SIGN



10 – INFORMAL TRAIL



11 – PICNIC TABLES, AND BENCHES



12 – SIGNS AND SPOTTER

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NATURAL BRIDGE

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EMERALD LAKE
EXISTING FEATURES AND REMOVALS
PLAN

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/05/11
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Echelle AS SHOWN
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Drawing Set No./Nº de série du dessin		

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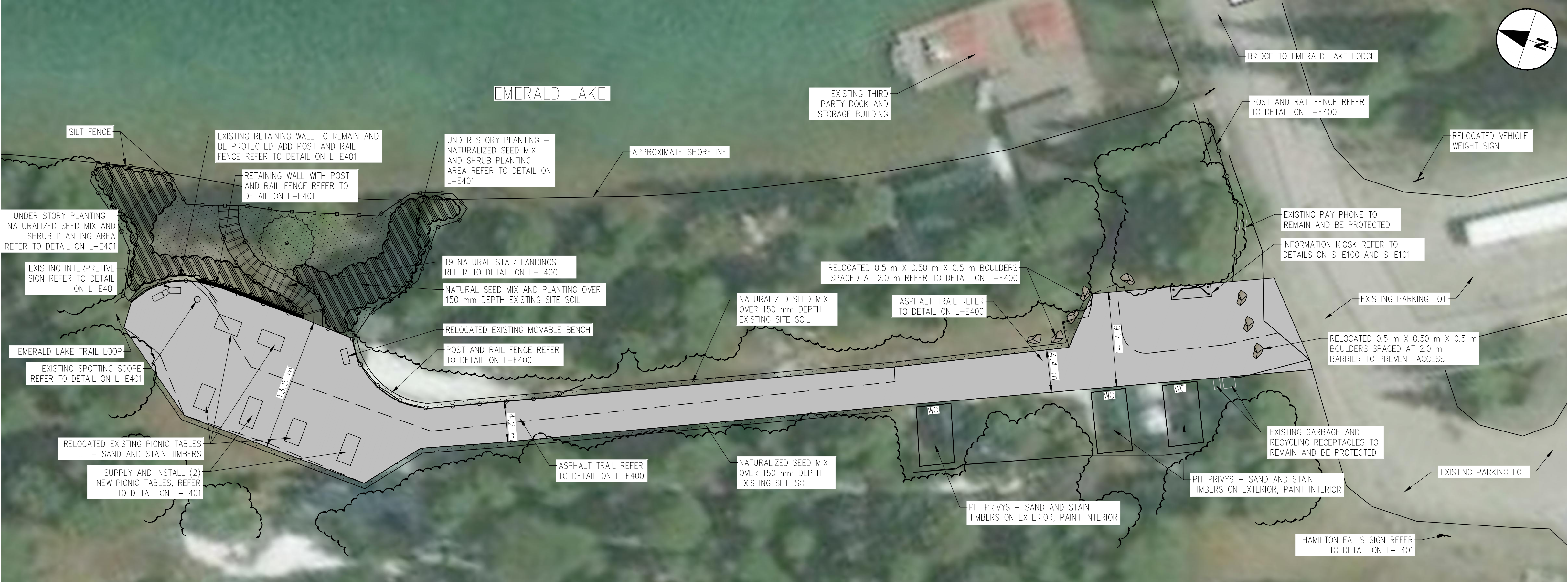


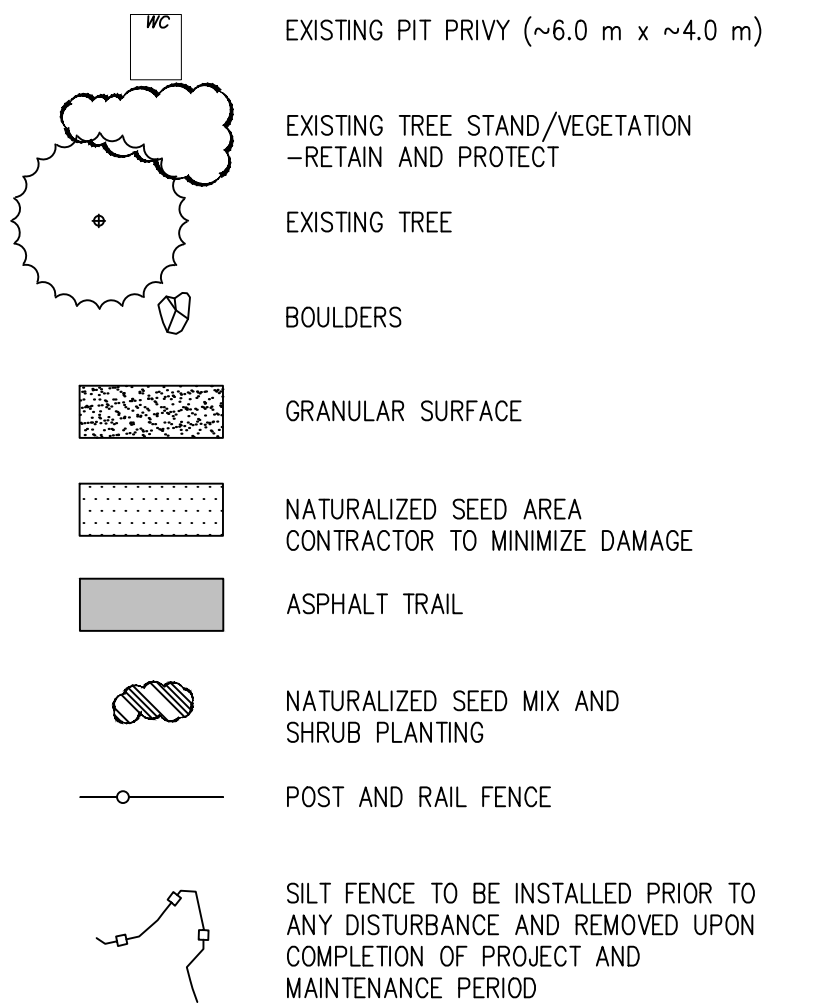
IMAGE SOURCE: BING MAPS

EMERALD LAKE



Scale: 1:250

LEGEND



SEED MIX

BOTANICAL NAME	COMMON NAME	PERCENTAGE
AGROSTIS SCABRA	TICKLE GRASS	40%
BROMUS CILIATUS	FRINGED BROME	40%
AGROPYRON TRACHYCAULUS VAR. SUBSECUNDUS	AWNED WHEAT GRASS	20%

SEED NOTES:

- SUBMIT CERTIFICATES STATING THAT SEED MIX IS CULTIVAR AND WEEED FREE TO DEPARTMENTAL REPRESENTATIVE.

NOTES:

GENERAL

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS, DRAWINGS AND DETAILS FOR THIS PROJECT.
- ANY AMBIGUITY IN THIS DRAWING OR ACCOMPANYING DETAILS IS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
- LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

SITE WORK

- 12 BOULDERS ARE CURRENTLY ON SITE.
- CONTRACTOR TO STOCKPILE BOULDERS ON SITE AND REPLACE UPON COMPLETION OF GRADING AND TOPSOIL.
- CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FOR REUSE IN SEED AND PLANT AREAS.
- CONTRACTOR TO CALL BRITISH COLUMBIA ONE CALL AT 1-800-474-6886, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
- CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
- CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- FINAL LOCATION OF ALL TRAIL AND SITE FURNISHINGS WILL BE CONFIRMED ON SITE WITH THE DEPARTMENTAL REPRESENTATIVE.
- FINAL LAYOUT OF ASPHALT PATH TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO ASPHALTING.

PERMITS AND STANDARDS

- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

- THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
- NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO USE SITE TOPSOIL SUPPLEMENTED WITH IMPORTED TOPSOIL.

PLANT SCHEDULE

Sym	Qty	Unit	Botanical Name	Common Name	Size/Remarks
Deciduous Shrubs					MIX RANDOMLY WITH OTHER SPECIES
	38	EACH	ALNUS TENUIFOLIA (ALNUS INCANA ALDER RUGOSA)	MOUNTAIN / RIVER ALDER	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; SPACING 1 PER m²
	41	EACH	ROSA ACICULARIS	WILD ROSE	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; SPACING 1 PER m2
	38	EACH	SALIX BEBBIANA	BEBB'S WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; SPACING 1 PER m2
	38	EACH	SALIX GLAUCA	SMOOTH WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; SPACING 1 PER m2

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F	18.08.14	ISSUED FOR TENDER	JG/TW	DH/BN
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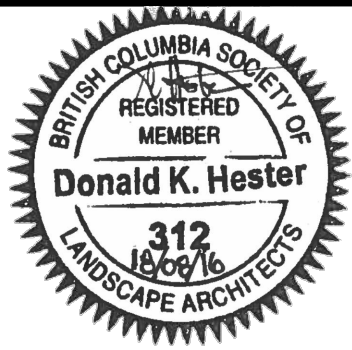
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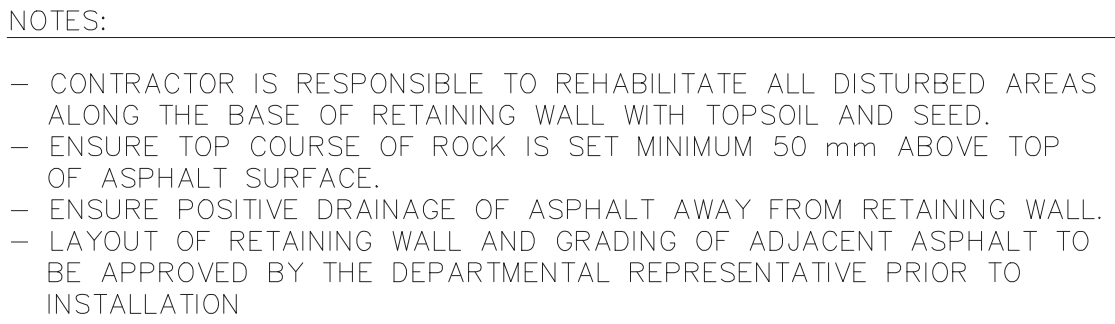
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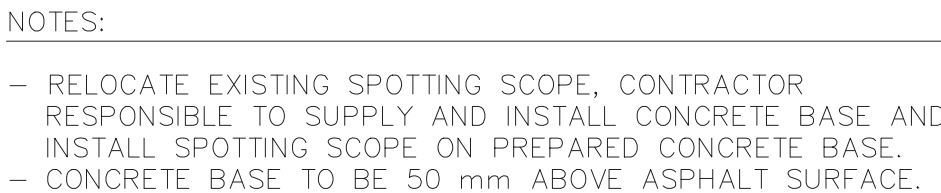
Drawing title/Titre du dessin

EMERALD LAKE
LANDSCAPE PLAN

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/08/14
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Échelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nºde la feuille L-E101
Drawing Set No./Nº de série du dessin		



Scale 1:20




Scale 1:20



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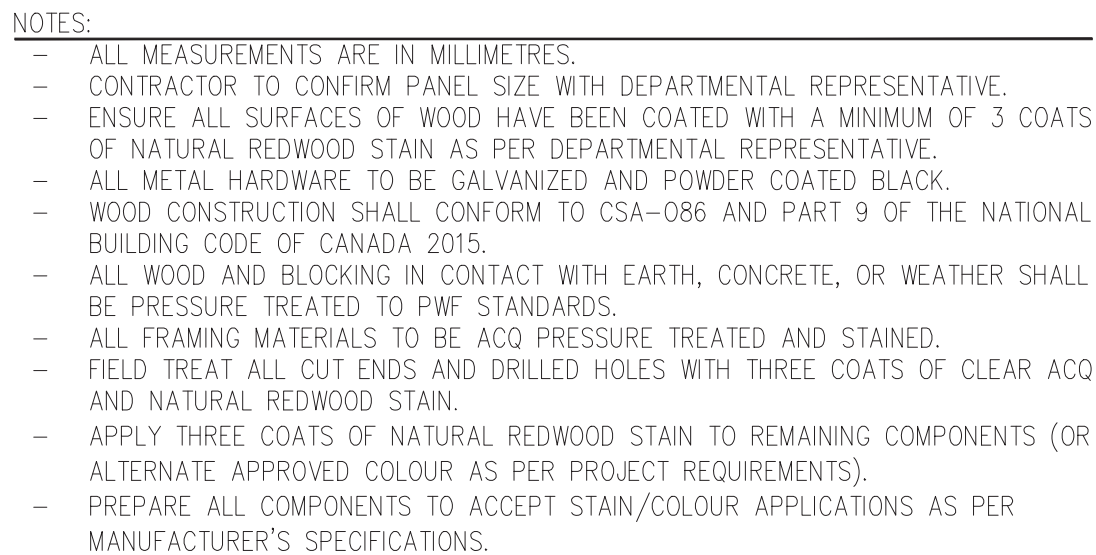
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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	Parks Canada	Parcs Canada
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EMERALD LAKE AND NATURAL BRIDGE

EMERALD LAKE
LANDSCAPE DETAILS

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/05/11
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Drawing Set No./N° de série du dessin		L-E401



Scale 1:20

GENERAL NOTES

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
2. ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE CONSTRUCTION AND REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK, DO NOT SCALE DRAWINGS.
3. THE DESIGN AND CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2015 AND REFERENCED STANDARDS THEREIN. ALL REFERENCED STANDARDS SHALL BE THE LATEST EDITION (NBCC 2015).
4. REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR TO CONFIRM WITH EQUIPMENT SUPPLIERS DIMENSIONS AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES AND OBTAIN APPROVAL FROM DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HOURS IN ADVANCE OF CONCRETE POURS FOR SITE REVIEW.
7. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
8. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA, TO PERFORM AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION.
9. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS.

DESIGN LOADS

1. DEAD LOADS: SEE PLANS FOR DEAD LOADS AND SUPERIMPOSED DEAD LOADS.
2. LIVE LOADS: KIOSK SLAB 4.8 kPa
3. SNOW LOADS: $S_s = 3.7 \text{ kPa}$
 $S_r = 0.2 \text{ kPa}$
 $I_s = 1 \text{ (ULS)}$
 $I_s = 0.9 \text{ (SLS)}$
MODIFY FOR EXPOSURE AND DRIFT AS PER NBCC 2015
4. WIND LOADS: $q(1/50) = 0.35 \text{ kPa}$ LOCATION: GOLDEN, B.C.
 $q(1/10) = 0.27 \text{ kPa}$
 $I_w = 1 \text{ (ULS)}$
 $I_w = 0.75 \text{ (SLS)}$
MODIFY FOR EXPOSURE AS PER NBCC 2015
5. SEISMIC LOADS: SITE CLASS D (ASSUMED)
 $S_a(0.2) = 0.26$
 $S_a(0.5) = 0.15$
 $S_a(1.0) = 0.075$
 $S_a(2.0) = 0.041$
 $PGA = 0.13$
 $I_e = 1 \text{ (ULS)}$

SFERS – MODERATELY DUCTILE MOMENT RESISTING TIMBER FRAMES
 $R_d = 2.0$
 $R_o = 1.5$
6. CONCRETE SELF-WEIGHT BASED ON $\gamma = 24 \text{ kN/m}^3$

EXCAVATION & BACKFILL

1. EXCAVATE TO LINES AND LEVELS NECESSARY TO COMPLETE THE WORK. MINIMUM SIDE SLOPES OF TEMPORARY EXCAVATIONS SHALL NOT EXCEED 1.0H:1.0V OR AS RECOMMENDED IN THE GEOTECHNICAL REPORT. CONTROL EXCAVATION TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN DUE TO EXCESS MOISTURE.
2. DO NOT PLACE BACKFILL ON FROZEN GROUND, NOR USE FROZEN MATERIAL.
3. MAINTAIN OPTIMUM MOISTURE CONTENT TO PERMIT COMPACTION TO ATTAIN SPECIFIED DENSITIES, PROTECT BACKFILLED GRADE, DURING AND AFTER COMPLETION OF BACKFILL OPERATION, FROM SOFTENING DUE TO EXCESS MOISTURE.
4. ALL BACKFILL SHALL BE COMPACTED USING MECHANICAL EQUIPMENT.
5. ENSURE THAT THE INTEGRITY OF EXISTING UNDERGROUND SERVICES/STRUCTURES ARE MAINTAINED AT ALL TIMES DURING THE WORK. REPAIR/RECTIFY IMMEDIATELY ANY DAMAGED/DISRUPTION TO THE CLIENT'S SATISFACTION AND AT THE CONTRACTOR'S COST.
6. EXCAVATE BELOW CONCRETE PAD AND REMOVE TOPSOIL, FILL AND ORGANIC CLAY. REMOVE UNSUITABLE MATERIALS AND REPLACE WITH WELL GRADED APPROVED MATERIAL IN NOT MORE THAN 150 mm LIFTS COMPACTED TO 98% STANDARD PROTECTOR MAXIMUM DRY DENSITY.

CAST-IN-PLACE CONCRETE

1. PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
2. ALL CONCRETE SHALL BE NORMAL-DENSITY WITH NORMAL-DENSITY FINE AND COARSE AGGREGATE AND BE PROPORTIONED TO MEET THE FOLLOWING REQUIREMENTS:

LOCATION	CSA EXPOSURE CLASS	CEMENT TYPE	MINIMUM COMPRESSIVE STRENGTH (MPa)	MAX W/C RATIO	MAX. AGGREGATE (mm)	AIR CONTENT (%)
EXTERIOR SLAB-ON-GRADE	C-2	GU	32 @ 28 DAYS	0.45	20	5-8

CONCRETE ACCESSORIES

1. EPOXY ANCHORS: OF DIAMETER SHOWN AND STANDARD EMBEDMENT U.N.O. SHEAR AND TENSION CAPACITIES ARE BASED ON HILTI HY200 + HIT-Z SUPER HARDWARE. SUBMIT ANCHOR LOAD RESISTANCE DATA FOR ALTERNATE PRODUCTS FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WEEKS PRIOR TO INTENDED USE.

CONCRETE REINFORCEMENT

1. REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO CSA-G30.18 GRADE 400.
2. WELDABLE REINFORCING BARS SHALL CONFORM TO CSA-G30.18 GRADE 400W. WELDING OF REINFORCING STEEL SHALL CONFORM TO CSA-W186.
3. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
4. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
5. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH	75mm
EXTERIOR APRONS AND CONCRETE PADS	
TOP BARS	60mm
BOTTOM BARS	75mm

6. REINFORCING STEEL BAR LAPS SHALL BE CLASS B TENSION SPLICES PER CSA-A23.1 UNLESS NOTED OTHERWISE.

ROUGH CARPENTRY

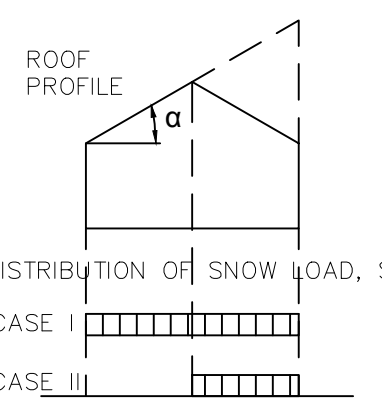
1. WOOD CONSTRUCTION SHALL CONFORM TO CSA-086 AND PART 9 OF THE NATIONAL BUILDING CODE OF CANADA 2015.
2. WOOD FRAMING MATERIAL (UNLESS NOTED OTHERWISE): DOUGLAS FIR-LARCH No.1/No.2 OR SPF No.1/No.2.
3. SHEATHING MATERIAL: TONGUE AND GROOVE DOUGLAS FIR PLYWOOD TO CSA-0121 OR CANADIAN SOFTWOOD PLYWOOD TO CSA-0151.
4. WOOD DECKING: TO NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER, COMMERCIAL GRADE DOUGLAS FIR-LARCH, 64mm x 127mm, PRE-DRILLED AT 750mm ON CENTRE FOR LATERAL SPIKING, DOUBLE TONGUE AND GROOVE AND "VEED" ON ONE SIDE. KILN DRY DECKING TO 15% MAXIMUM MOISTURE CONTENT.
5. HEAVY TIMBER: HEAVY TIMBER MEMBERS TO PROFILES, DIMENSIONS, AND LOADS SHOWN ON THE DRAWINGS. SUPPLIER SHALL DESIGN CONNECTIONS FOR LOADS SHOWN ON THE DRAWINGS, TIMBER SPECIES AND GRADE: DOUGLAS FIR-LARCH; No. 1 GRADE OR BETTER TO CSA 086 AND CSA 0141. SUBMIT SHOP DRAWINGS OF MEMBERS AND CONNECTIONS FOR REVIEW, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. SHOP DRAWINGS SHALL INDICATE DESIGN LOADS, LUMBER SPECIES AND GRADES, LAYOUT, JOINT DETAILS AND CONNECTOR CAPACITIES.
6. FRAMING ANCHORS AND TIES: AS MANUFACTURED BY SIMPSON STRONGTIE (WWW.STRONGTIE.COM). ALTERNATE ANCHORS AND TIES SHALL NOT BE USED UNLESS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
7. ALL TRUSSES, JOISTS, FRAMING, AND DECKING DELIVERED TO THE SITE SHALL BE KEPT DRY. NO WARPED MATERIALS SHALL BE USED.
8. ALL WOOD AND BLOCKING IN CONTACT WITH EARTH, CONCRETE, OR WEATHER SHALL BE PRESSURE TREATED TO PWF STANDARDS.

PAINTING

- METAL: TO MASTERS PAINTERS INSTITUTE (MPI) FORMULA EXT.5.1D ALYKD SEMI-GLOSS LEVEL 5, VOC E1.
- WOOD: TO MPI EXT. 6.5A ACRYLIC LATEX LEVEL 4, VOC E3.
- TIMBER: TO MPI EXT. 6.4D SEMI-TRANSPARENT STAIN

CONSTRUCTION NOTES

1. ROOFING MATERIAL: WESTFORM PROLOCK ROOFING, RIDGE AND FASCIA CAPS (BLACK COLOUR)/ ON 19 PLYWOOD SHEETING. NATURAL TONE CEDAR STAIN UNDERSIDE OF PLYWOOD SHEETING.
2. ALL STEEL ANCHORS AND FASTENERS TO BE HOT DIP GALVANIZED OR LABELLED FOR ACQ LUMBER RECOMMENDATIONS.
3. ALL FRAMING AND DECKING MATERIALS TO BE ACQ PRESSURE TREATED AND STAINED.
4. FIELD TREAT ALL CUT ENDS AND DRILLED HOLES WITH 2 COATS OF CLEAR ACQ AND STAIN.
5. APPLY TWO COATS OF NATURAL REDWOOD STAIN TO ALL SUPPORTING COMPONENTS (POSTS, RIDGE BEAM, BEAMS, RAFTERS) OR ALTERNATE APPROVED COLOUR AS PER PROJECT REQUIREMENTS.
6. APPLY TWO COATS OF NATURAL TONE CEDAR SOLID COLOUR TO REMAINING COMPONENTS (OR ALTERNATE APPROVED COLOUR AS PER DEPARTMENTAL REPRESENTATIVE).
7. PREPARE ALL COMPONENTS TO ACCEPT STAIN/COLOR APPLICATIONS AS PER MANUFACTURER'S SPECIFICATIONS.
8. OPTIONAL MATERIAL: STEEL COMPONENTS AS DIRECTED.
9. RUBBER ROOFING TO BE INSTALLED TO MANUFACTURER'S RECOMMENDATIONS. ROOFING NAILS NOT TO PROTRUDE THROUGH THE PLYWOOD.

CASE	TYPE	SNOW LOADS OR SNOW DRIFT VALUES	NOTES
A		CASE I: $S_{max} = 3.8 \text{ kPa (ULS)}$ $S_{max} = 3.42 \text{ kPa (SLS)}$ CASE II: $S_{max} = 4.76 \text{ kPa (ULS)}$ $S_{max} = 4.28 \text{ kPa (SLS)}$	TYPICAL ON THE NEW KIOSK ROOF

NOTE: ALL SNOW LOAD VALUES SHOWN ARE UNFACTORED VALUES

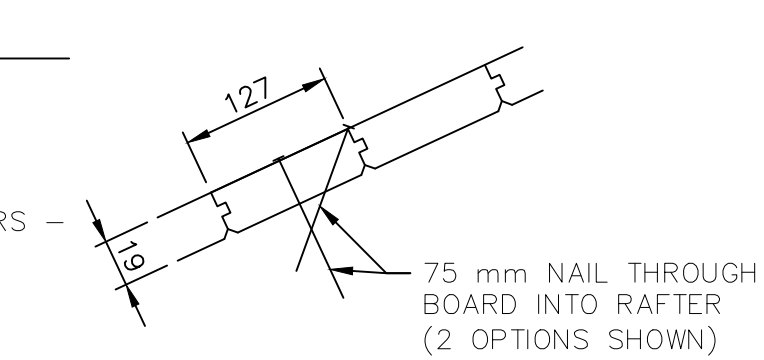
ROOF SNOW LOADS

	-1.47 kPa
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WIND UPLIFT FORCES PLAN

THE VALUES ARE UNFACTORED ULS (ULTIMATE LIMIT STATES) WIND UPLIFT PRESSURES AND DO NOT INCLUDE SUPERIMPOSED DEAD LOADS (SDL) OR SELF-WEIGHT OF THE ROOF STRUCTURE.

- ROOF DECKING NOTES:
1. ROOF DECKING TO BE INSTALLED IN CONTROLLED RANDOM PATTERN.
 2. ROOF DECKING TO BE INSTALLED WITH 2 NAILS AT EACH SUPPORT AS SHOWN BELOW.



NOTES:

FINISHES

- TIMBER – MESSMERS UV PLUS 'NATURAL REDWOOD'
- ROOF – WESTFORM PROLOCK 'BLACK'
- METAL CONNECTORS, BOLTS, AND WASHERS – POWDER COATED SEMIGLOSS BLACK


ABBREVIATIONS


@	AT
A.I.F.B.	ASPHALT IMPREGNATED FIBRE BOARD
BLL	BOTTOM LOWER LAYER
BUL	BOTTOM UPPER LAYER
BOT.	BOTTOM
CANT.	CANTILEVER
C.I.P.	CAST-IN-PLACE
CL	CENTER LINE
CLR.	CLEAR, CLEARANCE
COLS.	COLUMNS
CONC.	CONCRETE
CONT.	CONTINUOUS
C/W	COMPLETE WITH
DEG.	DEGREE
DIA.	DIAMETER
DL	DEAD LOAD
DN.	DOWN
DP.	DEEP
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
E.W.	EACH WAY
EXIST.	EXISTING
GA.	GAUGE
GALV.	GALV.
HK.	HOOK
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
INV.	INVERT
kN	KILONEWTON
kPa	KILOPASCAL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
m	METER
MAX.	MAXIMUM
MID.	MIDDLE
MIN.	MINIMUM
mm	MILLIMETER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPP.	OPPOSITE
±	PLUS MINUS
REF.	REFERENCE
REINF.	REINFORCEMENT
R/W	REINFORCED WITH
SDL	SUPERIMPOSED DEAD LOAD
SIM.	SIMILAR
SL	SNOW LOAD
T.O.	TOP OF
TYP.	TYPICAL
U/S	UNDER SIDE
VERT.	VERTICAL
WL	WIND LOAD

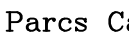
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B	18.05.11	ISSUED FOR TENDER	RP/TW	JNC
A	18.04.07	ISSUED FOR 90% REVIEW	RP/TW	JNC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

<div><div>A</div><div>B</div></div>	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
Linear dimensions in millimètres		Dimensions linéaires en millimètres
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur
		


 Parks Canada

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Asset Management
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Northern
Region

Gestion des biens
Région de l'Ouest et
du Nord

Canada



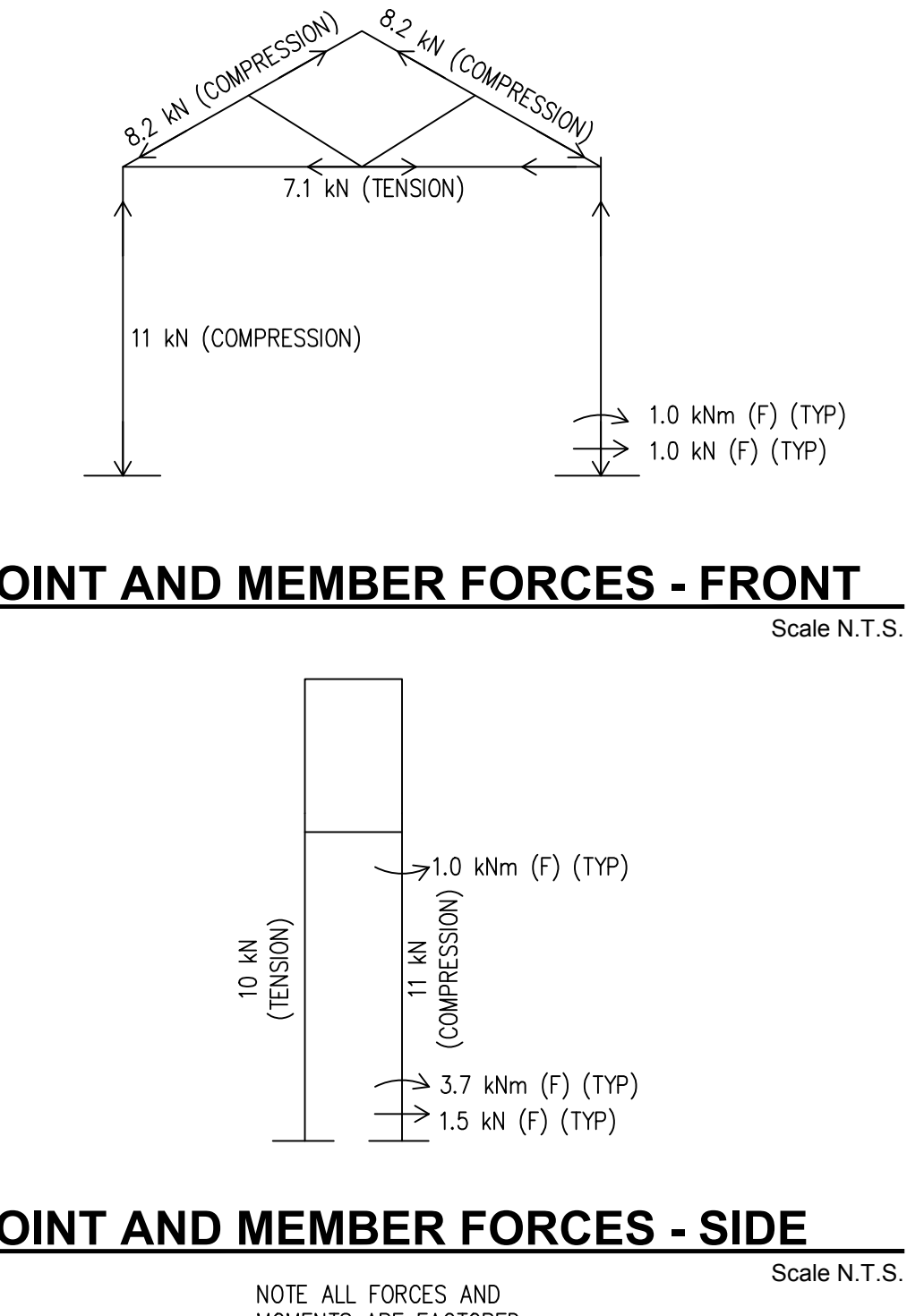
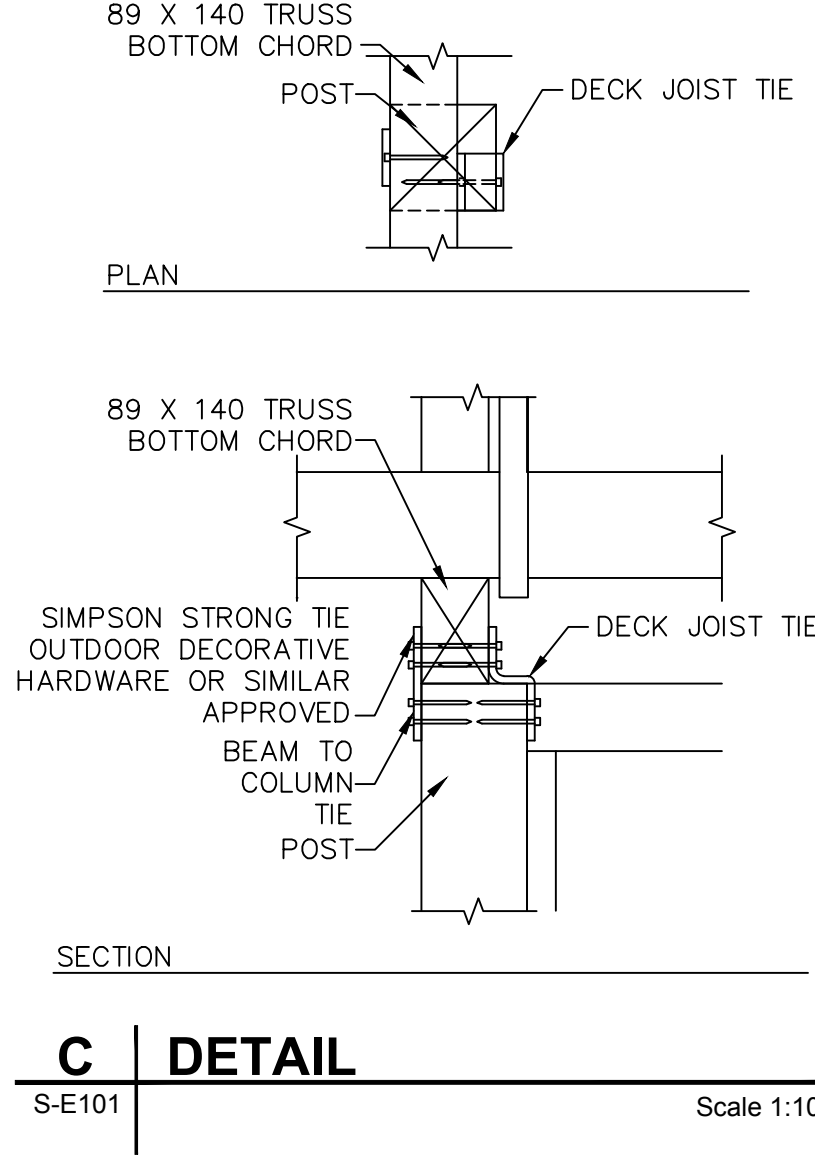
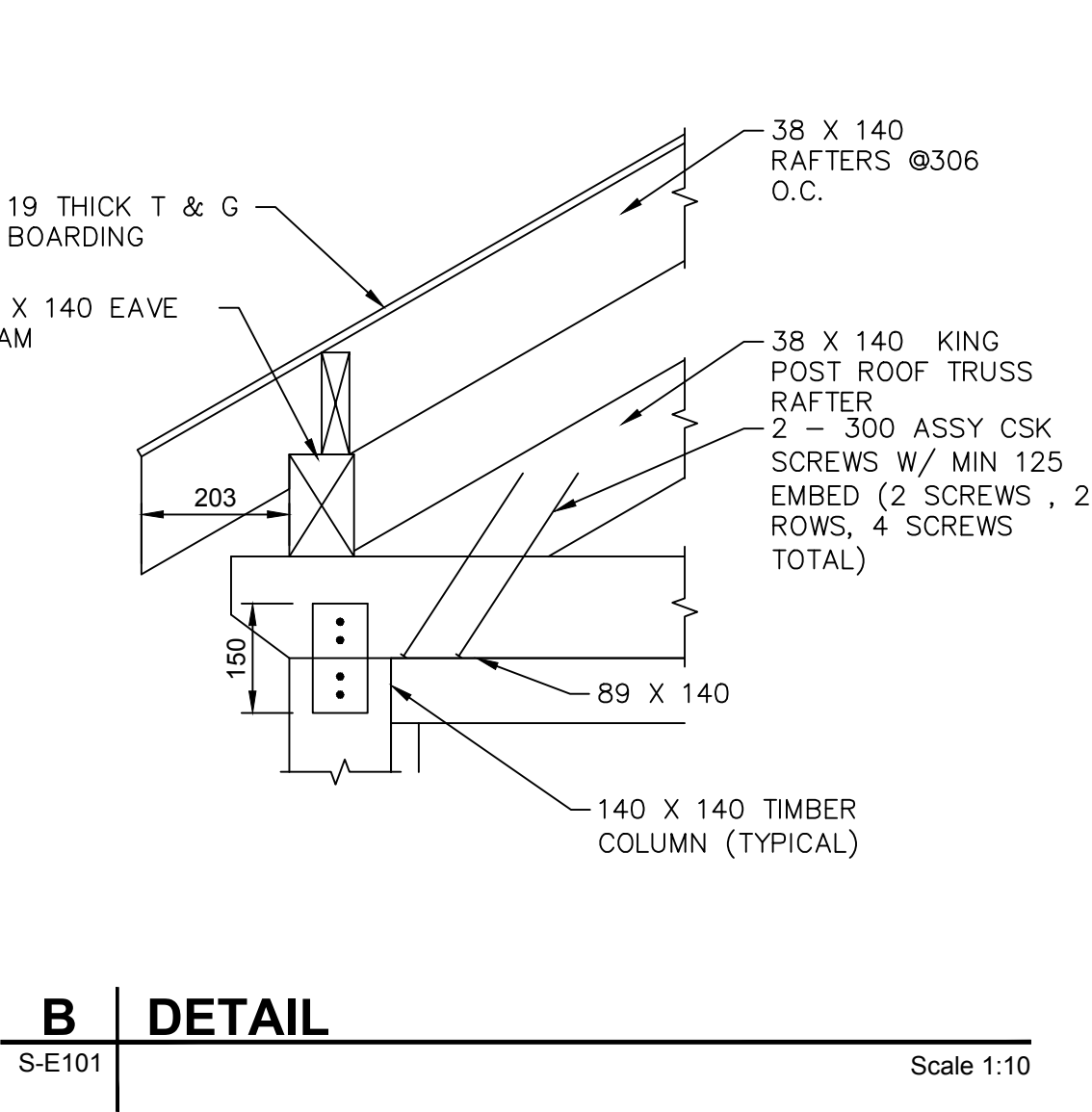
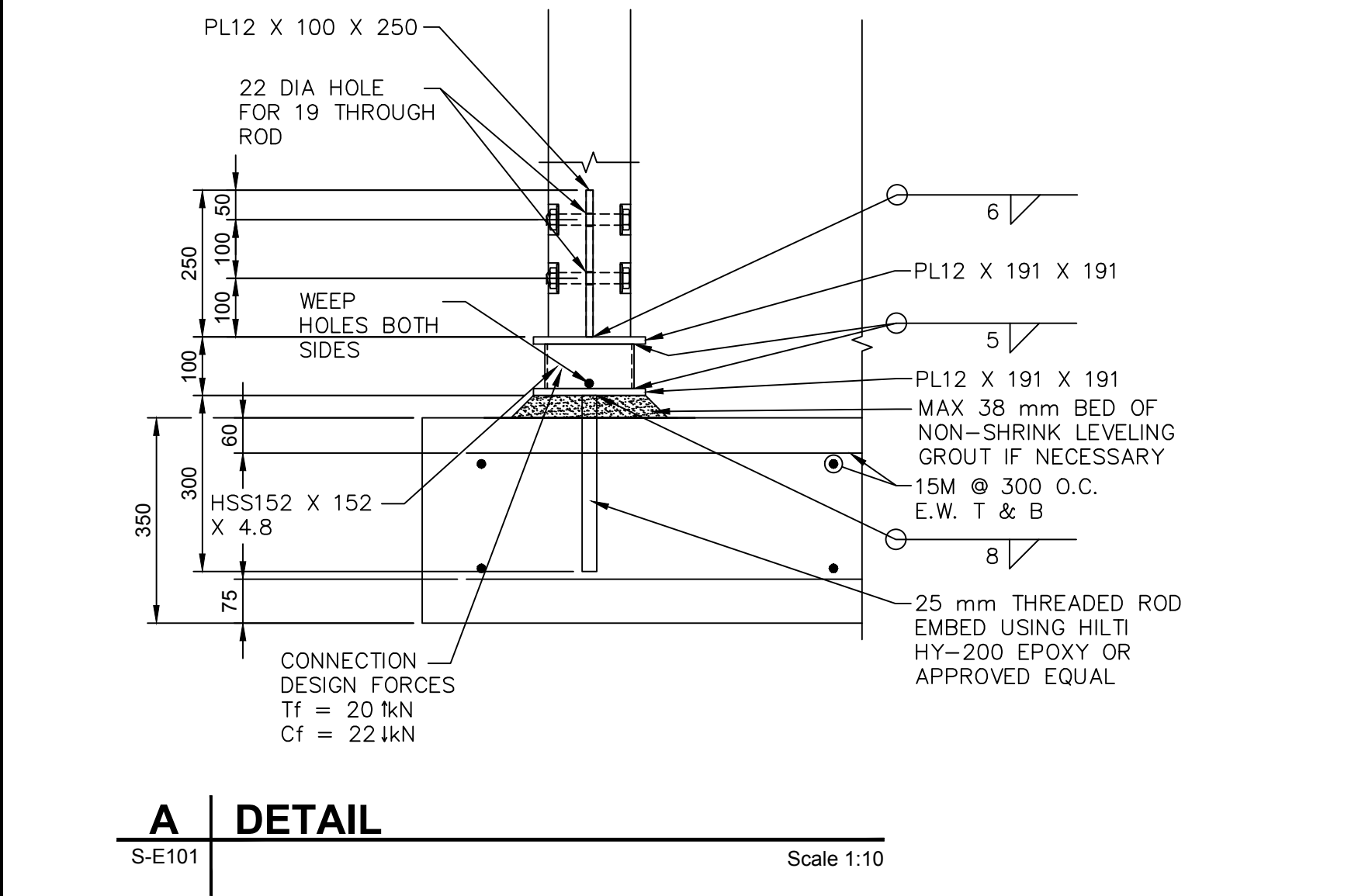
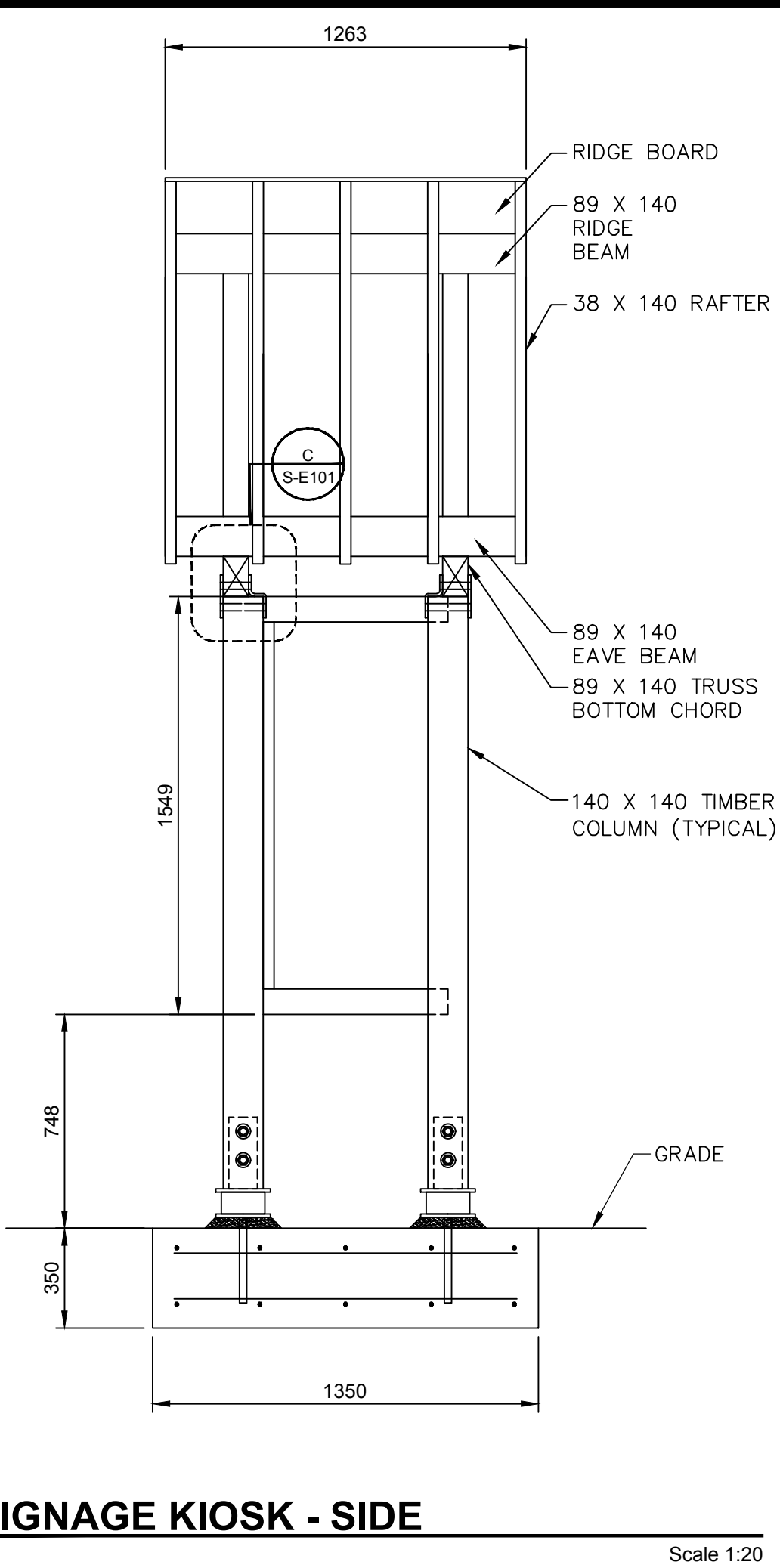
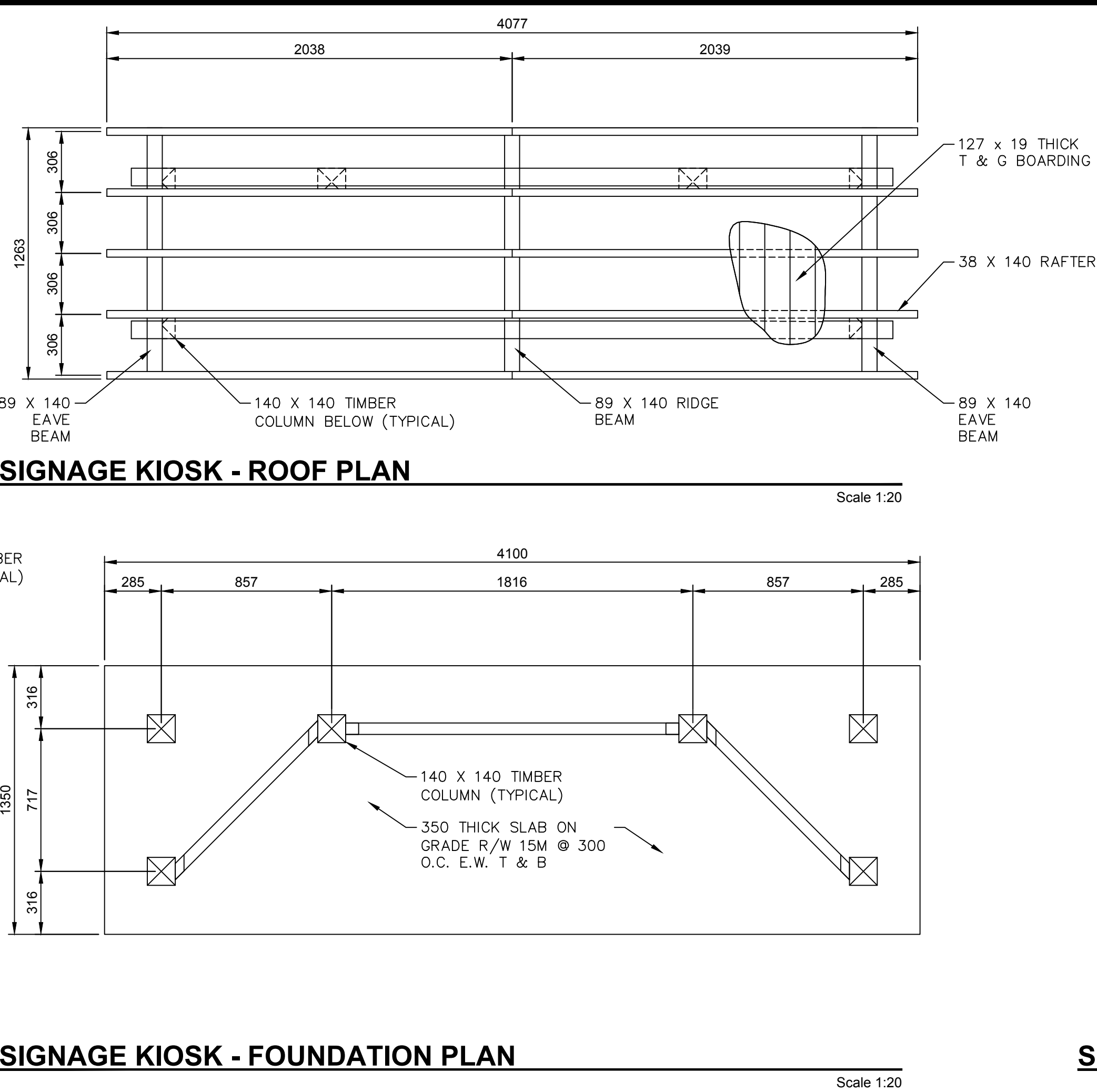
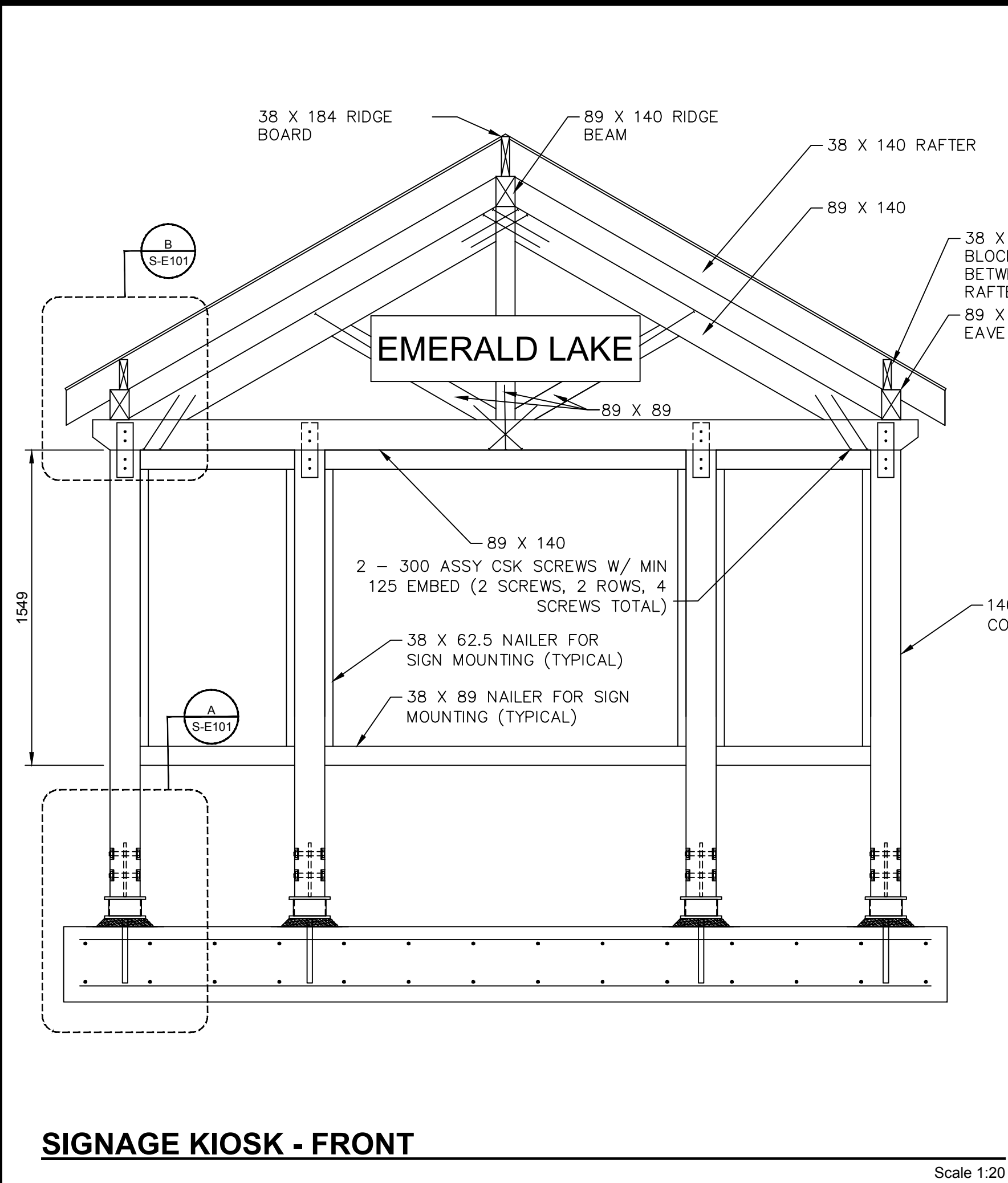
Project title/Titre du projet

EMERALD LAKE AND
NATURAL BRIDGE

Drawing title/Titre du dessin

NATURAL BRIDGE
STRUCTURAL NOTES

Surveyed by/Arpenté par -	Drawn by/Dessiné par RP	Date 2018/05/11
Designed by/Concept par JNC	Reviewed by/Revisé par JNC	Scale/Échelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nº de la feuille S-E100
Drawing Set No./Nº de série du dessin		



REFER TO S-E100 FOR STRUCTURAL NOTES AND SPECIFICATIONS

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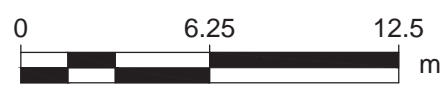
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A	18.04.07	ISSUED FOR 90% REVIEW	RP/TW	JNC
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A B		Detail number Sheet number	A Numéro de détail B Numéro de la feuille	
Linear dimensions in millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Scellé de l'ingénieur		
AECOM				
Asset Management Western and Northern Region		Gestion des biens Région de l'Ouest et du Nord		
Canada				
Project title/Titre du projet				
EMERALD LAKE AND NATURAL BRIDGE				
Drawing title/Titre du dessin				
NATURAL BRIDGE STRUCTURAL DETAILS				
Surveyed by/Arpenté par		Drawn by/Dessiné par		Date
-		RP		2018/05/11
Designed by/Concept par		Reviewed by/Revisé par		Scale/Échelle
JNC		JNC		AS SHOWN
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Date			Date	
Project No./Nº du projet		Asset No./Nº du blm		Sheet No./Nº de la feuille
60560382				S-E101
Drawing Set No./Nº de série du dessin				

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NATURAL BRIDGE

IMAGE SOURCE: BING MAPS



Scale: 1:250

LEGEND

- EXISTING PIT PRIVY (~6.0 m x ~4.0 m)
- EXISTING BOULDERS
- EXISTING GRANULAR SURFACE
- EXISTING TREE STAND/VEGETATION

NOTES:

- ALL RELOCATIONS TO BE REMOVED AND STORED ON SITE IN A SECURE LOCATION PENDING RELOCATION AS PER L-N102/103 OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



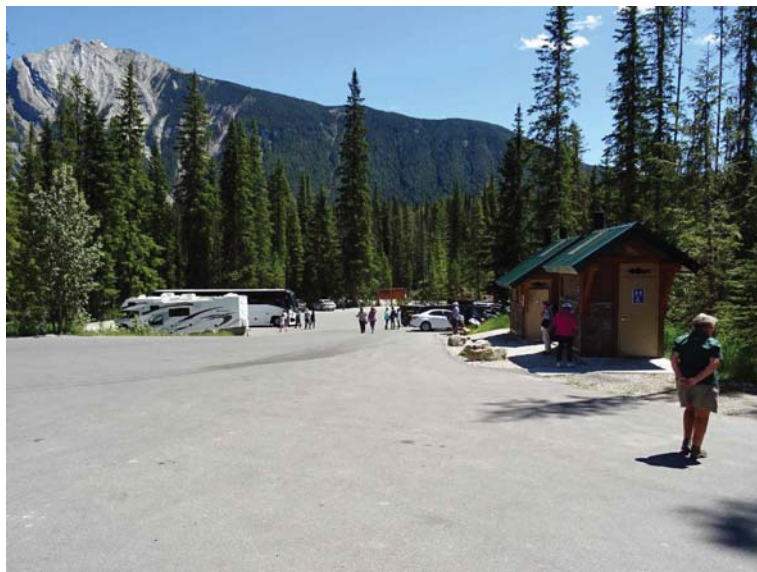
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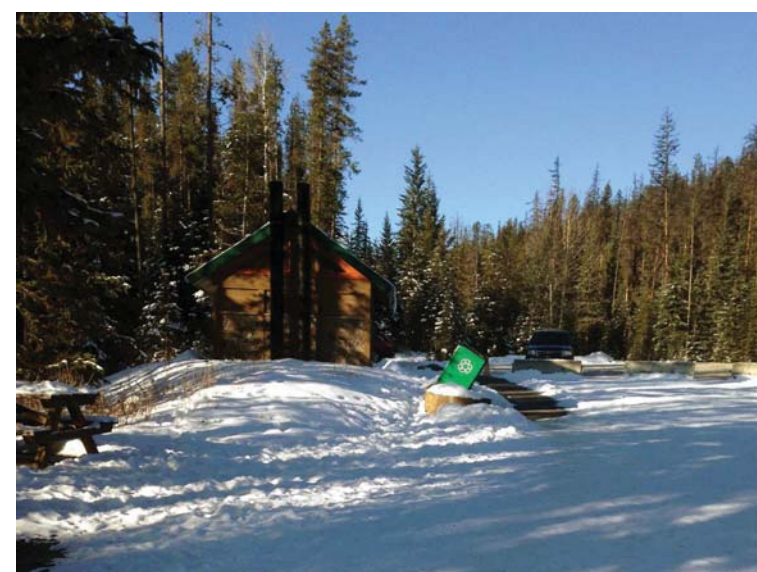
2 – INFORMATION SIGN / KIOSK



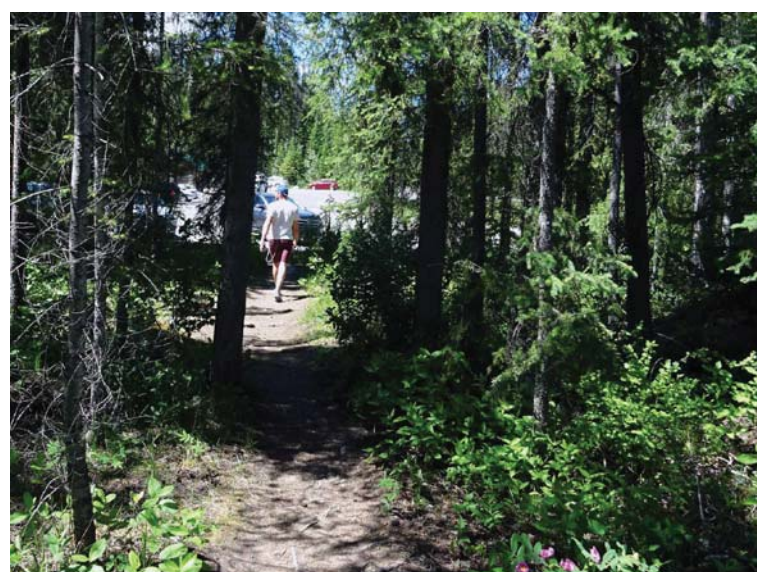
3 – INFORMATION SIGN



4 – PRIVIES AND BOULDERS



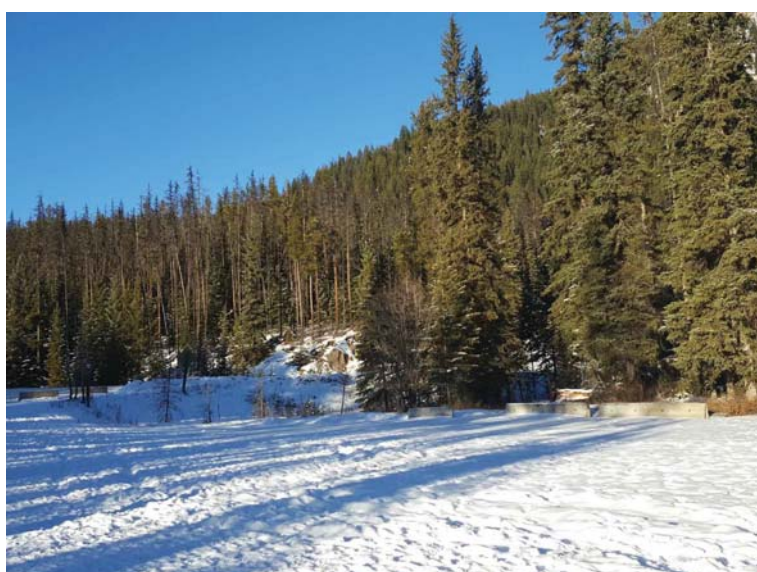
5 – RECEPTACLES, MOVABLE PICNIC TABLE



6 – INFORMAL TRAILS



7 – INFORMAL TRAILS



8 – CONCRETE BARRIERS



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada



Project title/Titre du projet

EMERALD LAKE AND
NATURAL BRIDGE

Drawing title/Titre du dessin

NATURAL BRIDGE
EXISTING FEATURES AND REMOVALS
PLAN 1

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/05/11
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Échelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nº de la feuille L-N100
Drawing Set No./Nº de série du dessin		

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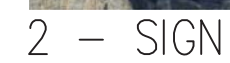


NATURAL BRIDGE




- NOTES:

- 1 – MOVABLE PICNIC TABLE

Revision / Revision

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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	Parks Canada	Parcs Canada
	Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord



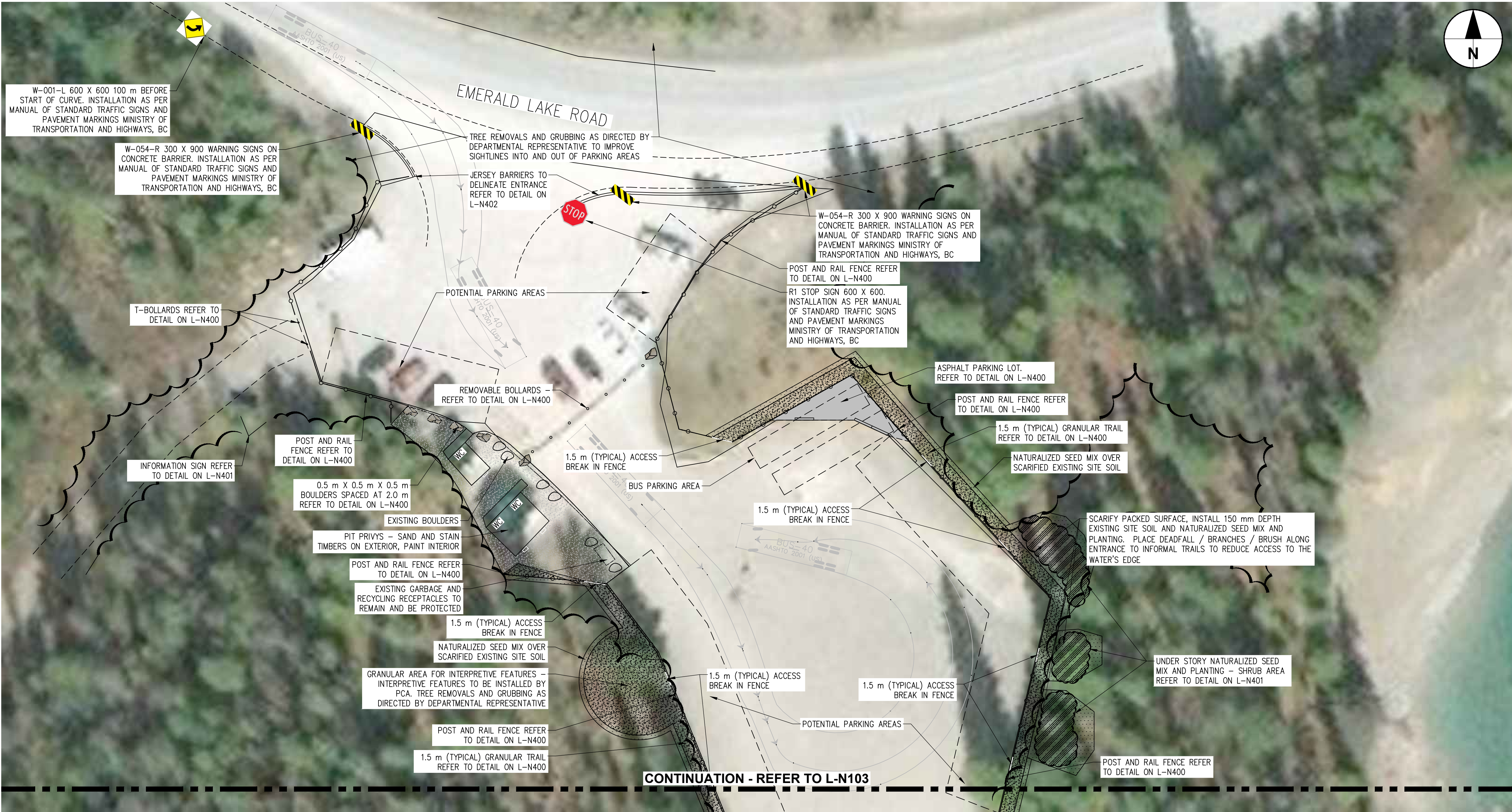
EMERALD LAKE AND NATURAL BRIDGE

Drawing title/Titre du dessin

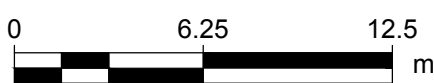
NATURAL BRIDGE
EXISTING FEATURES AND REMOVALS
PLAN 2

Surveyed by/Arpenté par —	Drawn by/Dessiné par TW/JG	Date 2018/05/11
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Echelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 60560382	Asset No./N° du bien	Sheet No./ N°de la feuille
Drawing Set No./N° de série du dessin		L-N101

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NATURAL BRIDGE



LEGEND

	EXISTING PIT PRIVY (~6.0 m x ~4.0 m)
	EXISTING TREE STAND/VEGETATION -RETAIN AND PROTECT
	EXISTING BOULDERS
	NEW BOULDERS
	GRANULAR TRAIL
	NATURALIZED SEED AREA CONTRACTOR TO MINIMIZE DAMAGE
	ASPHALT AREA
	NATURALIZED SEED MIX AND SHRUB PLANTING
	POST AND RAIL FENCE

NOTES:

- GENERAL**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS, DRAWINGS AND DETAILS FOR THIS PROJECT.
 - ANY AMBIGUITY IN THIS DRAWING OR ACCOMPANYING DETAILS IS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
 - LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
 - THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
 - ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- SITE WORK**
- 6 BOULDERS ARE CURRENTLY ON SITE.
 - CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FOR REUSE IN SEED AND PLANT AREAS.
 - CONTRACTOR TO CALL BRITISH COLUMBIA ONE CALL AT 1-800-474-6886, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 - CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 - CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 - FINAL LOCATION OF ALL TRAIL, FENCE, BARRIER, SIGNAGE AND SITE FURNISHINGS WILL BE CONFIRMED ON SITE WITH THE DEPARTMENTAL REPRESENTATIVE.
 - FINAL LAYOUT OF ASPHALT TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO ASPHALTING.

PERMITS AND STANDARDS

- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

- THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
- NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

SEED MIX

BOTANICAL NAME	COMMON NAME	PERCENTAGE
AGROSTIS SCABRA	TICKLE GRASS	40%
BROMUS CILIATUS	FRINGED BROME	40%
AGROPYRON TRACHYCAULUS VAR. SUBSECUNDUS	AWNED WHEAT GRASS	20%

SEED NOTES:

- SUBMIT CERTIFICATES STATING THAT SEED MIX IS CULTIVAR AND WEED FREE TO DEPARTMENTAL REPRESENTATIVE.

PLANT SCHEDULE

Sym	Qty	Unit	Botanical Name	Common Name	Size/Remarks
Coniferous Shrubs					MIX RANDOMLY WITH OTHER SPECIES
	20	EACH	JUNIPERUS COMMUNIS	COMMON JUNIPER	#5 CONTAINER; 600 mm SPREAD; 1 PER m2
Deciduous Shrubs					MIX RANDOMLY WITH OTHER SPECIES
	30	EACH	ALNUS TENUIFOLIA (ALNUS INCANA ALDER RUGOSA)	MOUNTAIN / RIVER ALDER	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m²
	25	EACH	SALIX BEBBIANA	BEBB'S WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m2
	25	EACH	SALIX GLAUCA	SMOOTH WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m2

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E	18.05.11	ISSUED FOR TENDER	JG/TW	DH/BN
D	18.04.07	ISSUED FOR 90% REVIEW	JG/TW	BN
C	18.03.05	ISSUED FOR 65% REVIEW	JG/TW	BN
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name
Nom de l'expert-conseil

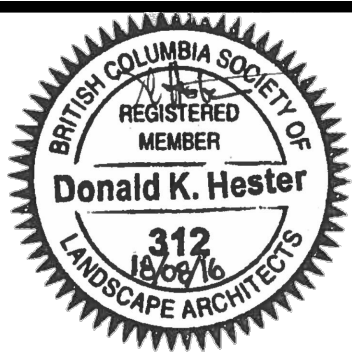
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Parks Canada
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Western and
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Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada



Project title/Titre du projet

EMERALD LAKE AND
NATURAL BRIDGE

Drawing title/Titre du dessin

NATURAL BRIDGE
LANDSCAPE PLAN 1

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/08/14
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Échelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nº de la feuille L-N102
Drawing Set No./Nº de série du dessin		

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NATURAL BRIDGE



LEGEND

- EXISTING PIT PRIVY (~6.0 m x ~4.0 m)
- EXISTING TREE STAND/VEGETATION -RETAIN AND PROTECT
- EXISTING BOULDERS
- NEW BOULDERS
- GRANULAR TRAIL
- NATURALIZED SEED AREA CONTRACTOR TO MINIMIZE DAMAGE
- ASPHALT AREA
- NATURALIZED SEED MIX AND SHRUB PLANTING
- POST AND RAIL FENCE

NOTES:

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 - THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
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- SITE WORK
- 6 BOULDERS ARE CURRENTLY ON SITE.
 - CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FOR REUSE IN SEED AND PLANT AREAS.
 - CONTRACTOR TO CALL BRITISH COLUMBIA ONE CALL AT 1-800-474-6886, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 - CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
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 - CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
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 - FINAL LAYOUT OF ASPHALT TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO ASPHALTING.

- PERMITS AND STANDARDS
- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.
- MATERIALS
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SEED MIX

BOTANICAL NAME	COMMON NAME	PERCENTAGE
AGROSTIS SCABRA	TICKLE GRASS	40%
BROMUS CILIATUS	FRINGED BROME	40%
AGROPYRON TRACHYCAULUS VAR. SUBSECUNDUS	AWNED WHEAT GRASS	20%

SEED NOTES:

- SUBMIT CERTIFICATES STATING THAT SEED MIX IS CULTIVAR AND WEED FREE TO DEPARTMENTAL REPRESENTATIVE.

PLANT SCHEDULE

Sym	Qty	Unit	Botanical Name	Common Name	Size/Remarks
Coniferous Shrubs					MIX RANDOMLY WITH OTHER SPECIES
	7	EACH	JUNIPERUS COMMUNIS	COMMON JUNIPER	#5 CONTAINER; 600 mm SPREAD; 1 PER m2
Deciduous Shrubs					MIX RANDOMLY WITH OTHER SPECIES
	7	EACH	ALNUS TENUIFOLIA (ALNUS INCANA ALDER RUGOSA)	MOUNTAIN / RIVER ALDER	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m2
	7	EACH	SALIX BEBBIANA	BEBBS WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m2
	7	EACH	SALIX GLAUCA	SMOOTH WILLOW	#5 CONTAINER; 600 mm HEIGHT - MIN. 4 CANES; 1 PER m2

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E	18.05.11	ISSUED FOR TENDER	JG/TW	DH/BN
D	18.04.07	ISSUED FOR 90% REVIEW	JG/TW	BN
C	18.03.05	ISSUED FOR 65% REVIEW	JG/TW	BN
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	Detail number	A Numéro de détail
B	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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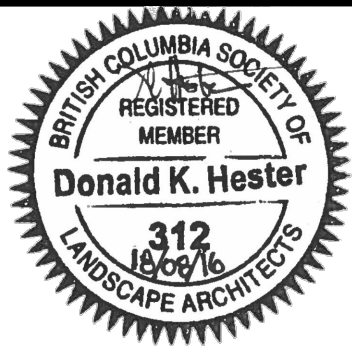
Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM

Canada
Parks Canada
Asset Management
Western and
Northern
Region
Gestion des biens
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du Nord

Canada



Project title/Titre du projet

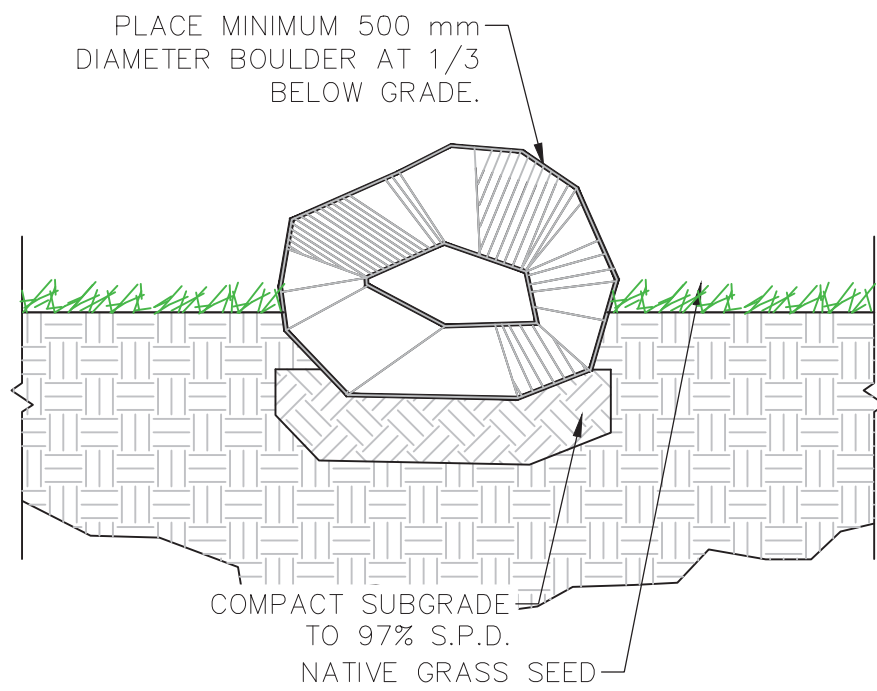
EMERALD LAKE AND
NATURAL BRIDGE

Drawing title/Titre du dessin

NATURAL BRIDGE
LANDSCAPE PLAN 2

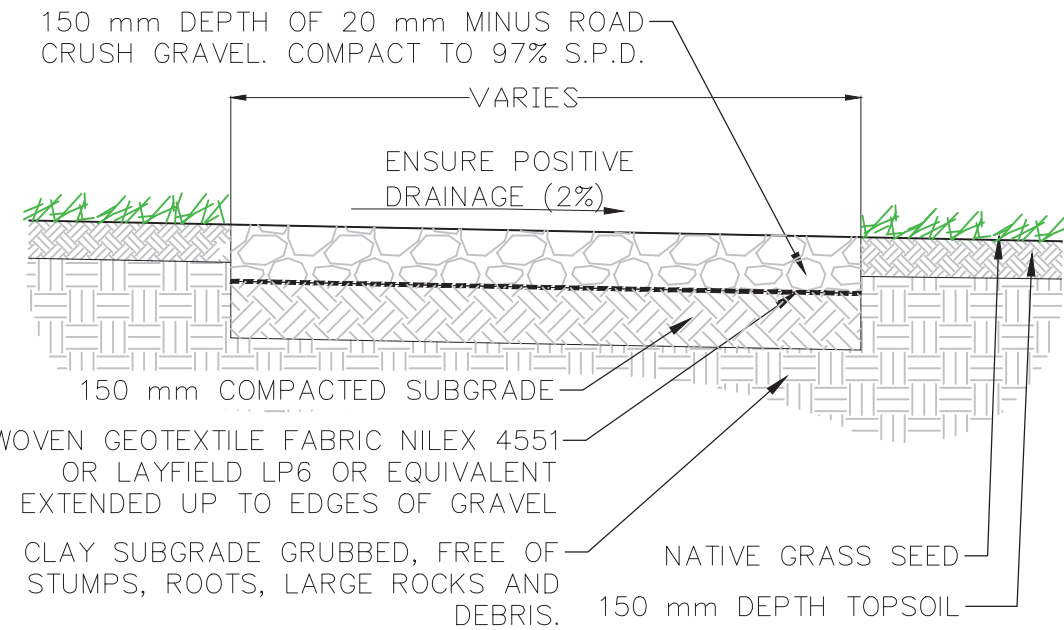
Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/08/14
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Échelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nº de la feuille L-N103
Drawing Set No./Nº de série du dessin		

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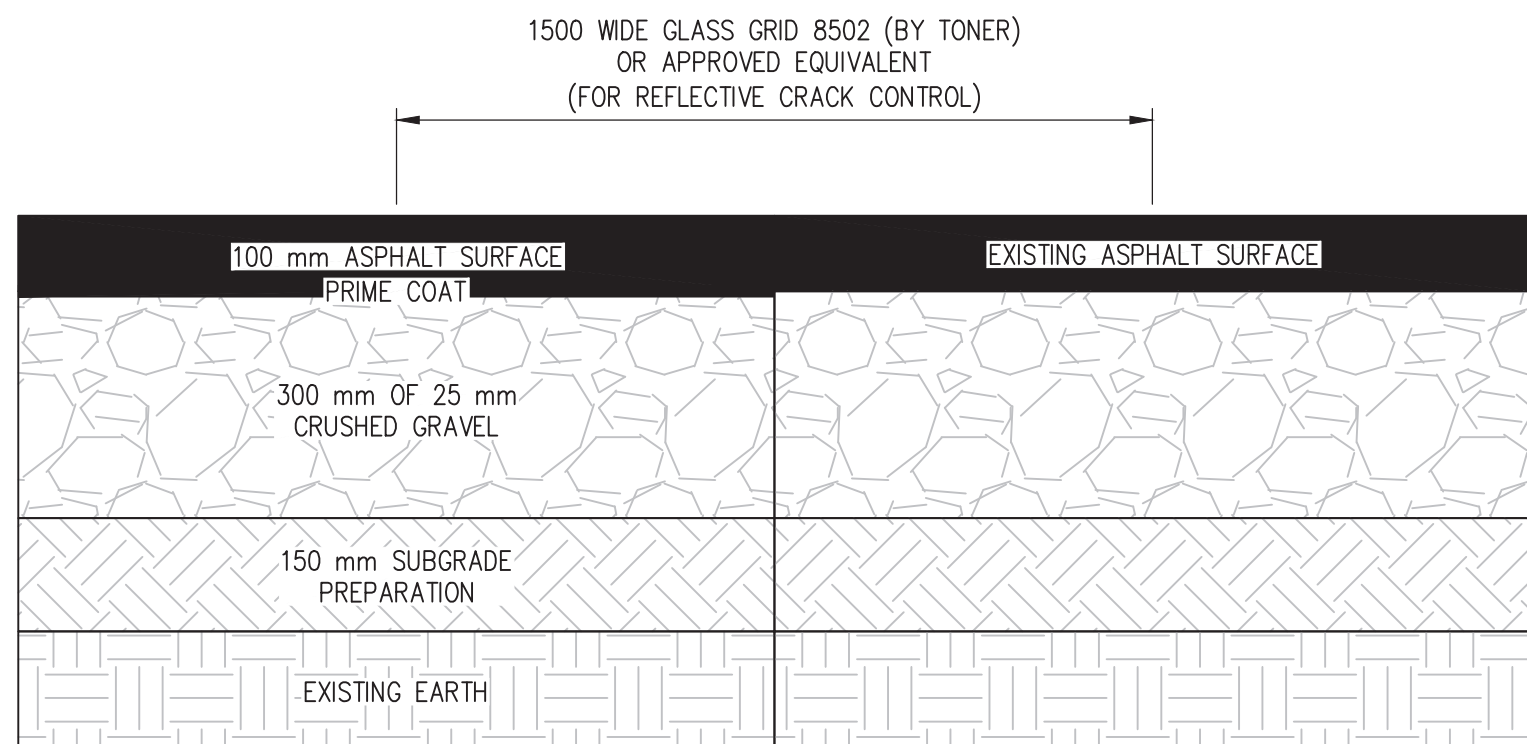
NOTES:

- IF BOULDERS ARE BEING PLACED IN AN AREA TO BE FINAL GRADED WITH GROWING MEDIUM, ENSURE THAT BOULDERS ARE IN PLACE PRIOR TO PLACEMENT OF GROWING MEDIUM.
- ENSURE BOULDERS ARE COMPLETELY SETTLED AND STABLE.
- BOULDERS EXISTING ON SITE OR SUPPLIED BY PARKS CANADA AGENCY



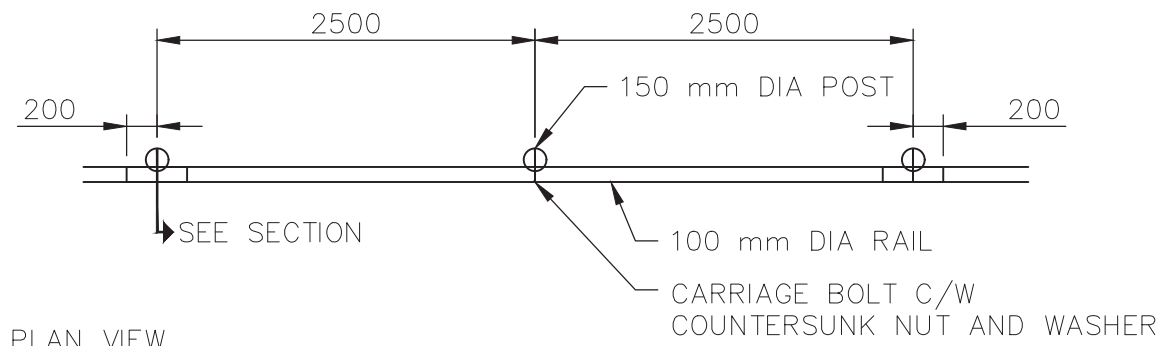
NOTES:

- CONTRACTOR'S RESPONSIBILITY TO REHABILITATE ALL DISTURBED AREAS ALONG TRAIL EDGE WITH TOPSOIL AND SEED.
- SET GRANULAR SURFACE FLUSH WITH ADJACENT GRADES.
- ENSURE DRAINAGE OFF GRANULAR AT ALL LOCATIONS

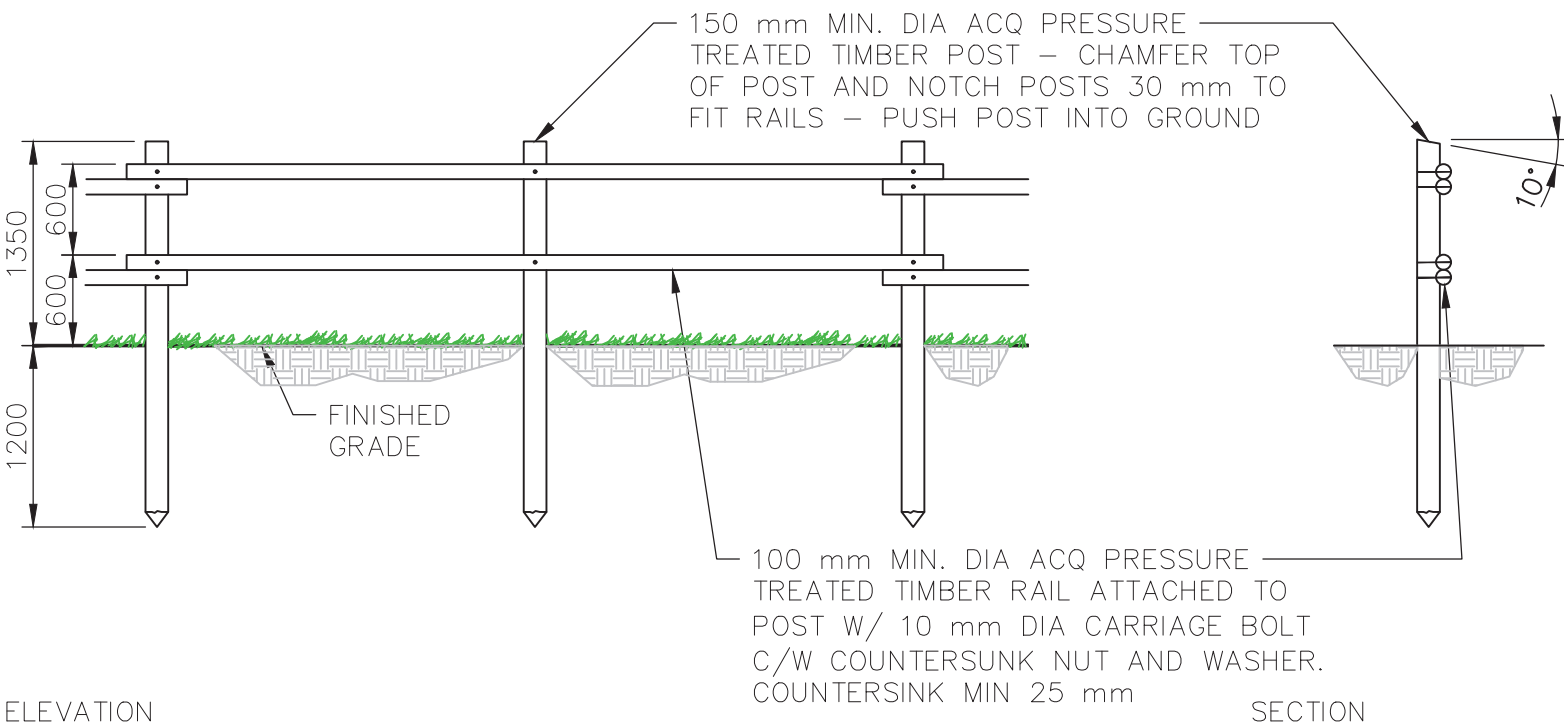


ASPHALT PARKING LOT

Scale: N.T.S.



PLAN VIEW



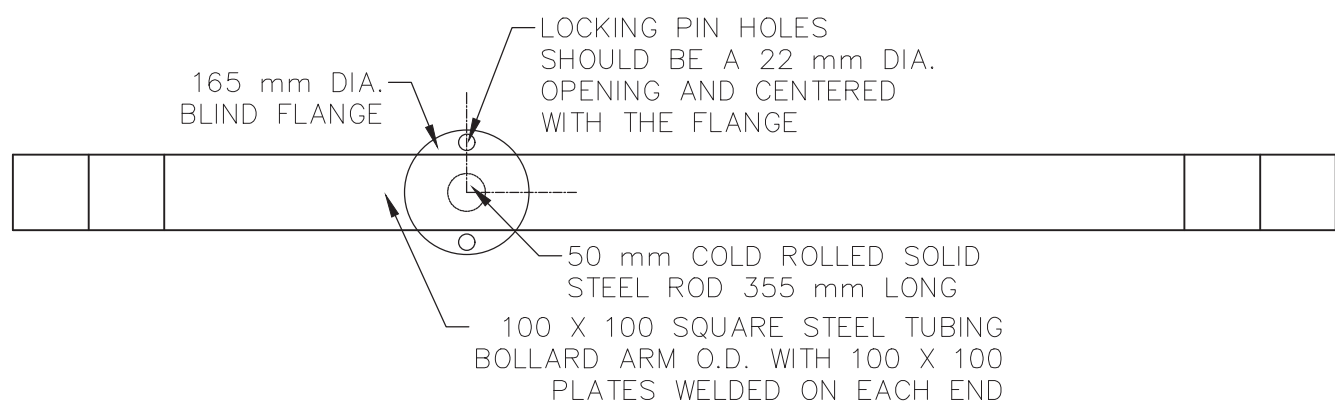
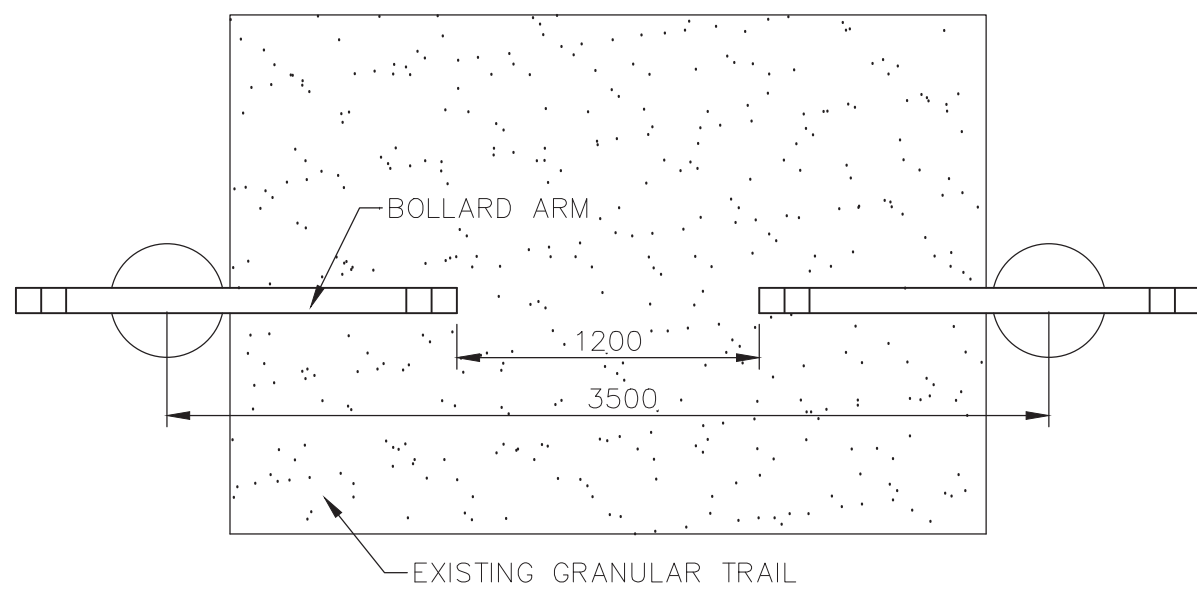
ELEVATION

NOTES:

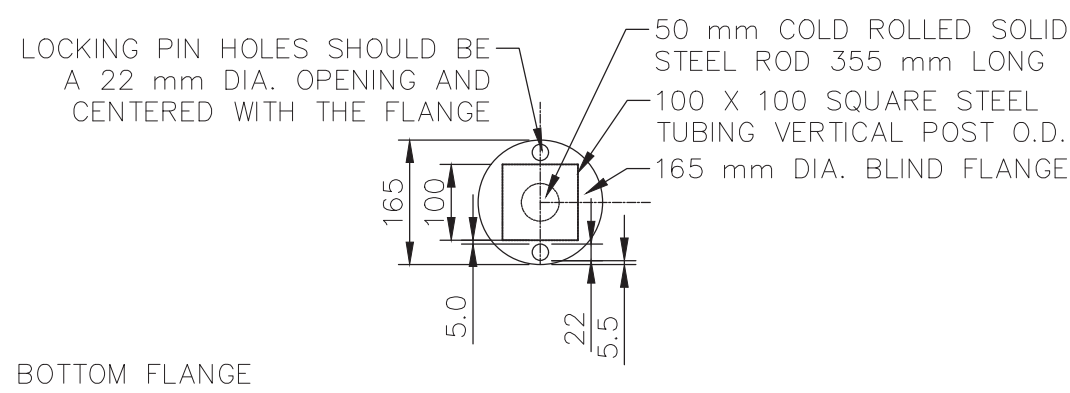
- FIELD TREAT ALL CUT ENDS AND DRILLED HOLES W/ 2 COATS OF CLEAR ACQ.
- ALL METAL HARDWARE TO BE GALVANIZED.
- ALL TREE, BRUSH AND OTHER OBSTACLES WHICH INTERFERE WITH THE CONSTRUCTION AND ALIGNMENT OF THE FENCE TO BE REMOVED PRIOR TO CONSTRUCTION OF THE FENCE. AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

POST AND RAIL FENCE

Scale 1:50



TOP FLANGE



BOTTOM FLANGE

T - BOLLARDS

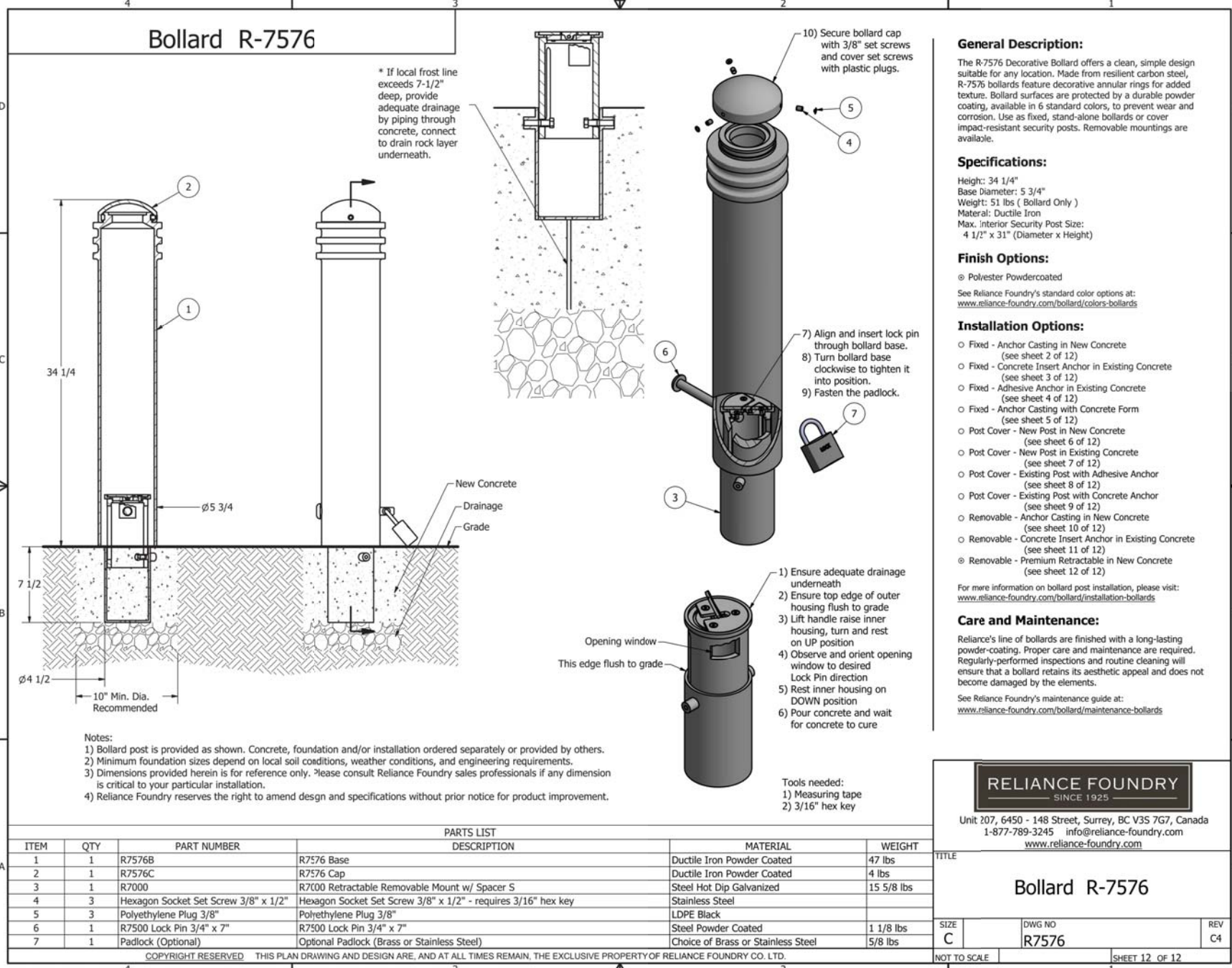
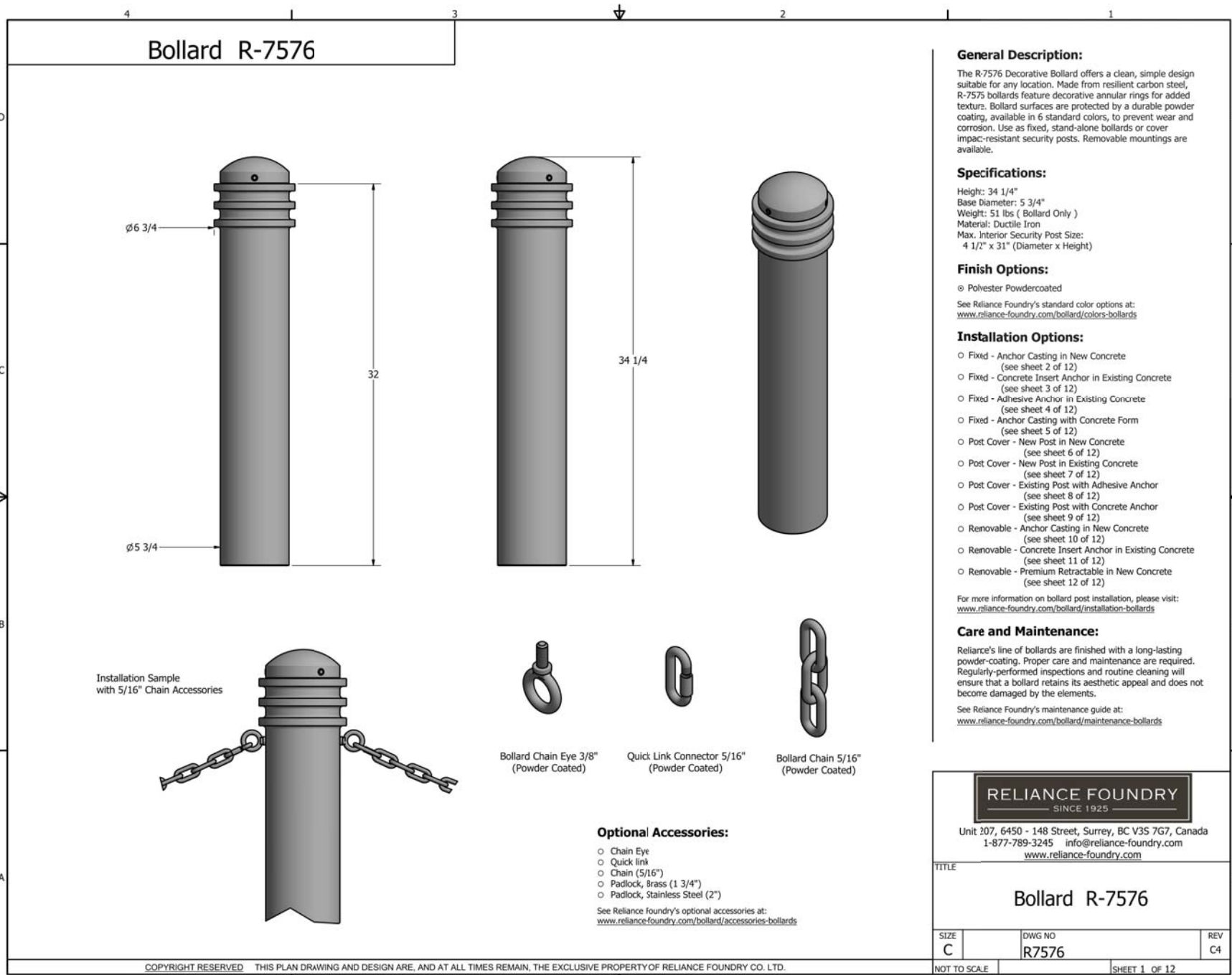
Scale 1:20

BOULDER INSTALLATION

Scale 1:20

GRANULAR TRAIL

Scale 1:20



REMOVEABLE BOLLARD

Scale NTS
BOLLARD DIMENSIONS ARE IN IMPERIAL

Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord



Project title/Titre du projet

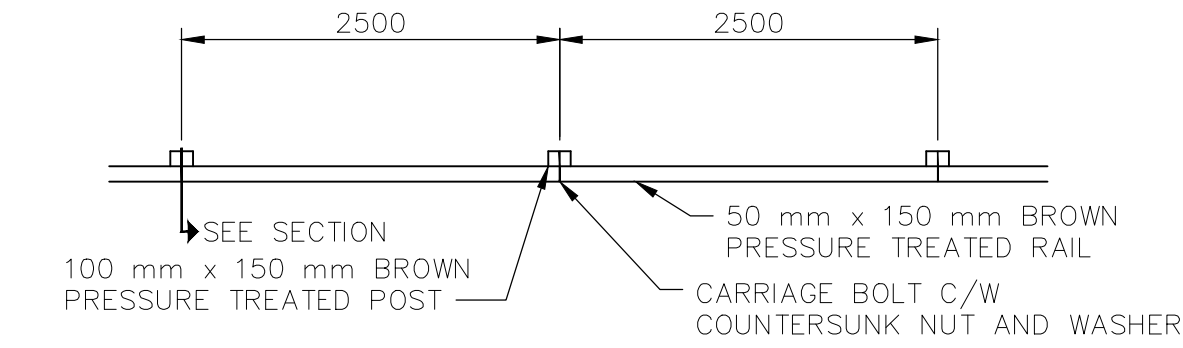
EMERALD LAKE AND
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Drawing title/Titre du dessin

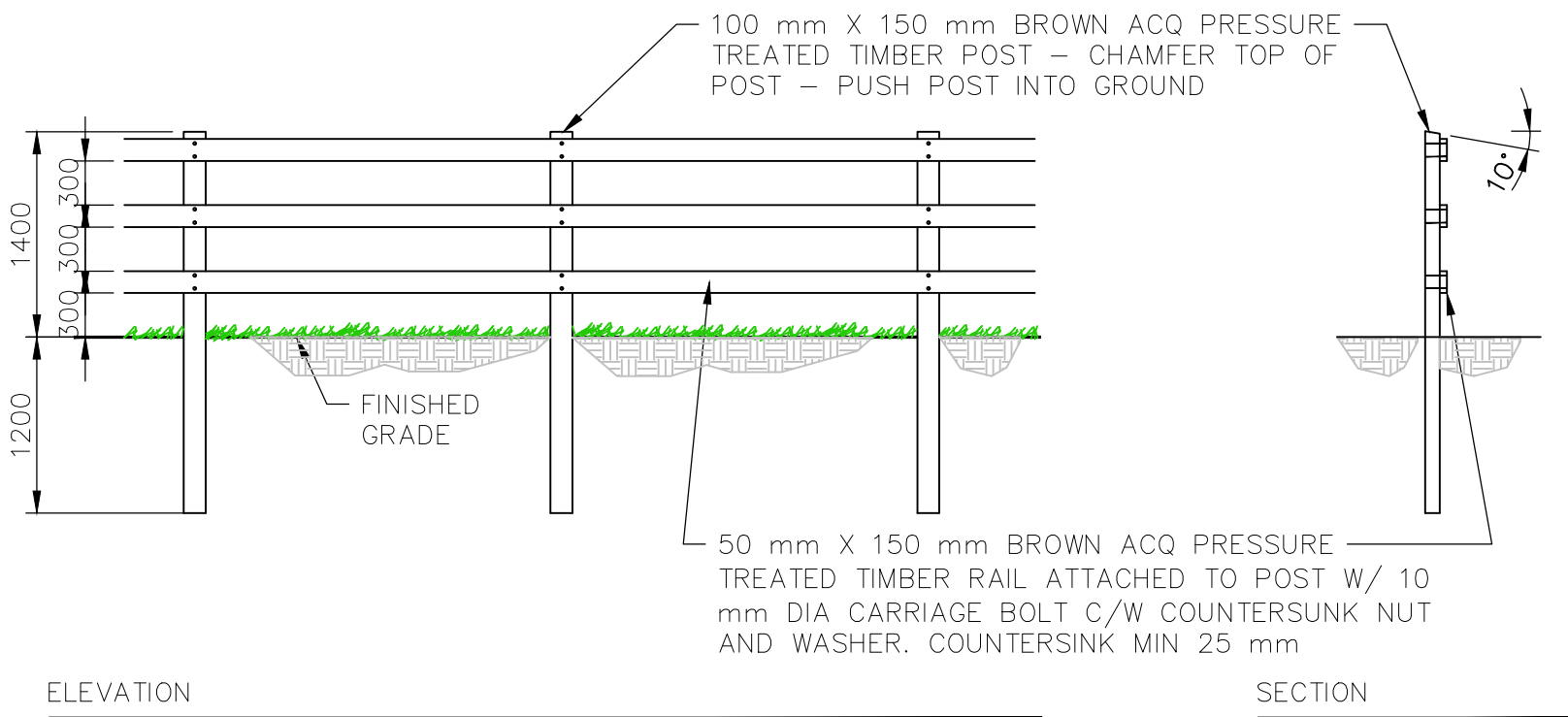
NATURAL BRIDGE
LANDSCAPE DETAILS

Surveyed by/Arpenté par -	Drawn by/Dessiné par TW/JG	Date 2018/05/11
Designed by/Concept par TW/JG	Reviewed by/Revisé par DH/BN/LJV	Scale/Echelle AS SHOWN
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 60560382	Asset No./Nº du bien	Sheet No./ Nº de la feuille L-N400
Drawing Set No./Nº de série du dessin		

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PLAN VIEW

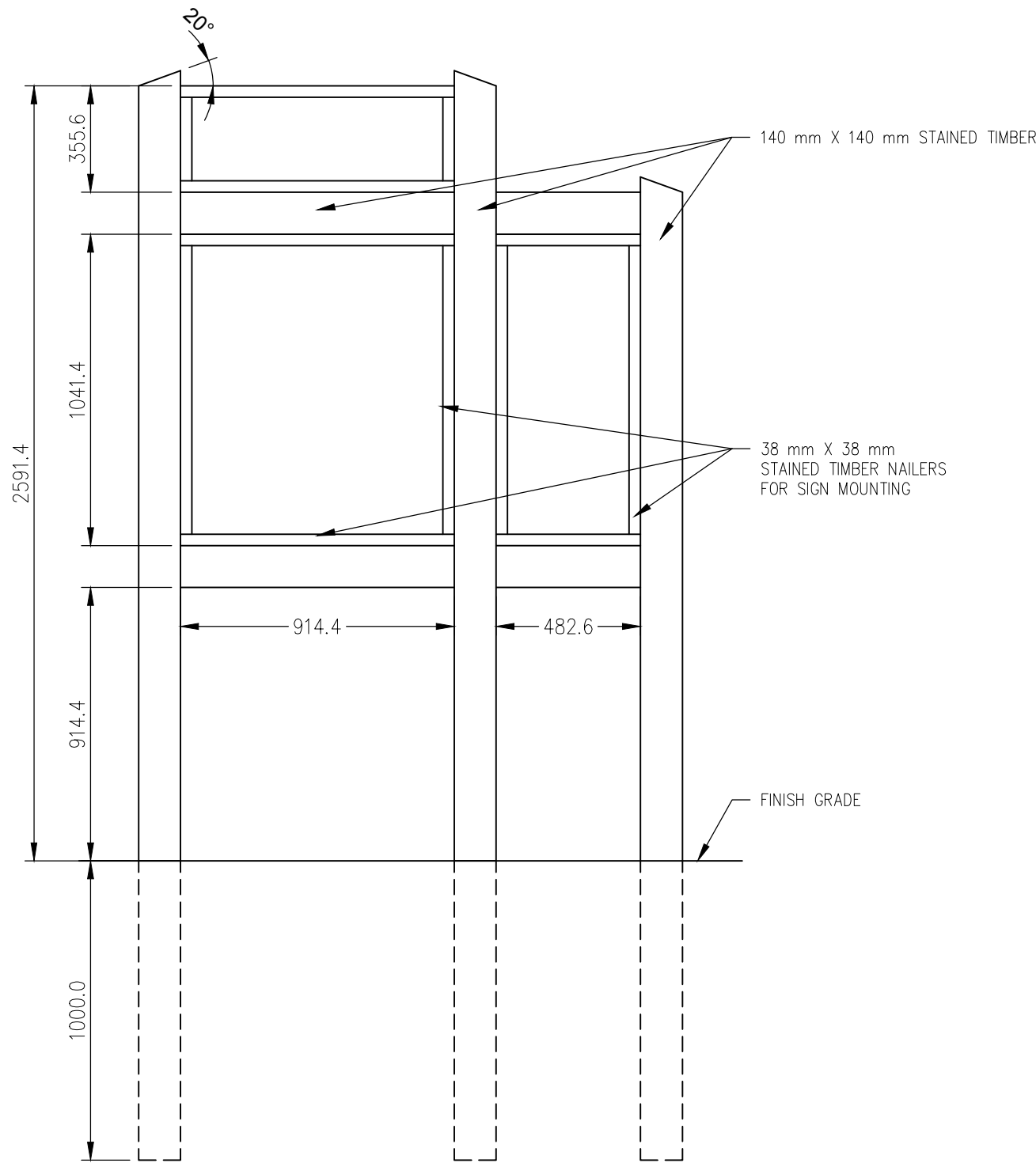


NOTES:

- ALL TIMBERS TO BE BROWN PRESSURE TREATED TO MATCH BROWN COMPOSITE BOARDWALK
- FIELD TREAT ALL CUT ENDS AND DRILLED HOLES W/ 2 COATS OF BROWN ACO. PRESSURE TREATING TO MATCH BROWN PRESSURE TREATED TIMBERS
- ALL METAL HARDWARE TO BE GALVANIZED.
- ALL TREE, BRUSH AND OTHER OBSTACLES WHICH INTERFERE WITH THE CONSTRUCTION AND ALIGNMENT OF THE FENCE TO BE REMOVED PRIOR TO CONSTRUCTION OF THE FENCE. AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

DECK RAILING FOR COMPOSITE BOARDWALK

Scale 1:50

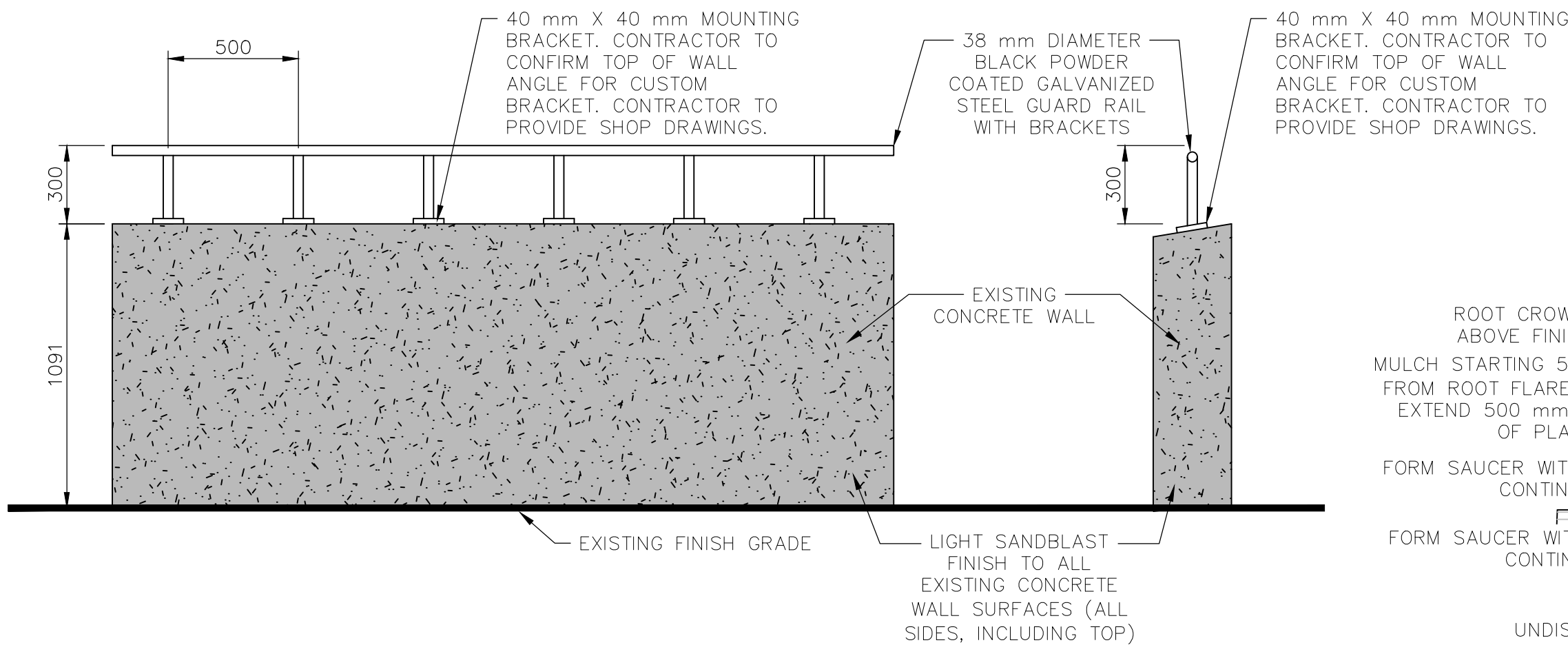


NOTES:

- ALL MEASUREMENTS ARE IN MILLIMETRES.
- CONTRACTOR TO CONFIRM PANEL SIZE WITH DEPARTMENTAL REPRESENTATIVE.
- ENSURE ALL SURFACES OF WOOD HAVE BEEN COATED WITH A MINIMUM OF 3 COATS OF NATURAL REDWOOD STAIN AS PER DEPARTMENTAL REPRESENTATIVE.
- ALL METAL HARDWARE TO BE GALVANIZED AND POWDER COATED BLACK.
- WOOD CONSTRUCTION SHALL CONFORM TO CSA-086 AND PART 9 OF THE NATIONAL BUILDING CODE OF CANADA 2015.
- ALL WOOD AND BLOCKING IN CONTACT WITH EARTH, CONCRETE, OR WEATHER SHALL BE PRESSURE TREATED TO PWF STANDARDS.
- ALL FRAMING MATERIALS TO BE ACO PRESSURE TREATED AND STAINED.
- FIELD TREAT ALL CUT ENDS AND DRILLED HOLES WITH THREE COATS OF CLEAR ACO AND NATURAL REDWOOD STAIN.
- APPLY THREE COATS OF NATURAL REDWOOD STAIN TO REMAINING COMPONENTS (OR ALTERNATE APPROVED COLOUR AS PER PROJECT REQUIREMENTS).
- PREPARE ALL COMPONENTS TO ACCEPT STAIN/COLOUR APPLICATIONS AS PER MANUFACTURER'S SPECIFICATIONS.

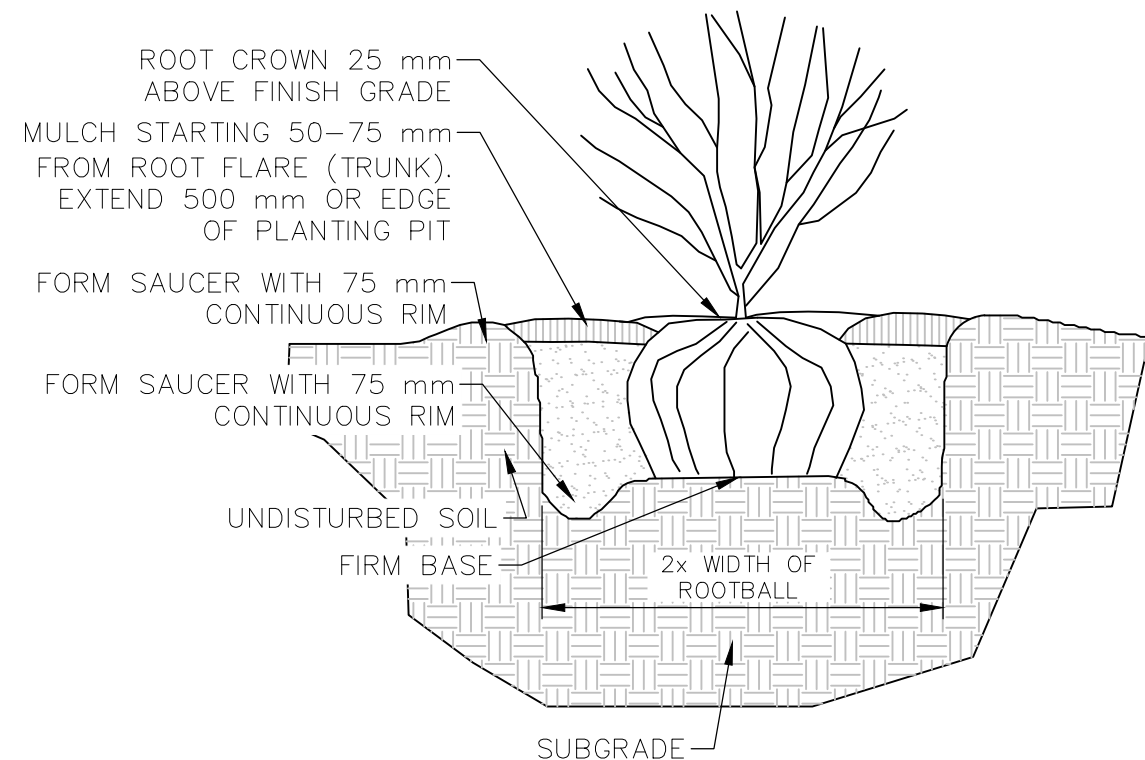
AMISKWI TRAIL SIGN

Scale 1:20



CONCRETE WALL - RAILING ADDITION

Scale 1:30



SHRUB INSTALLATION

Scale 1:20

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F	18.08.14	ISSUED FOR TENDER	JG/TW	DH/BN
E	18.05.11	ISSUED FOR TENDER	JG/TW	DH/BN
D	18.04.07	ISSUED FOR 90% REVIEW	JG/TW	BN
C	18.03.05	ISSUED FOR 65% REVIEW	JG/TW	BN
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

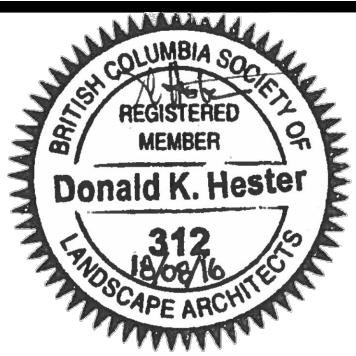
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Parks Canada
Asset Management
Western and
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Région de l'Ouest et
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EMERALD LAKE AND
NATURAL BRIDGE

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NATURAL BRIDGE
LANDSCAPE DETAILS

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Scale NTS