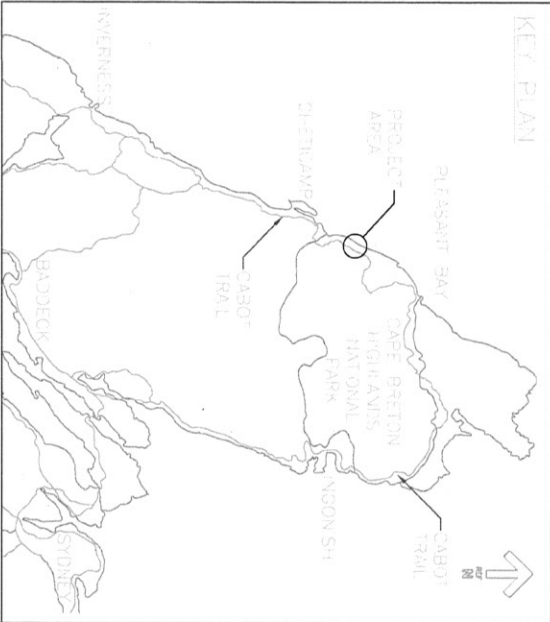


Parks
Canada

Parcs
Canada



TROUT BROOK CAMPGROUND PHASE 2 SITE WORK

CAPE BRETON HIGHLANDS NATIONAL PARK
INVERNESS COUNTY, NOVA SCOTIA

PROJECT NO. 01092017

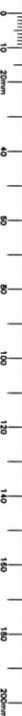
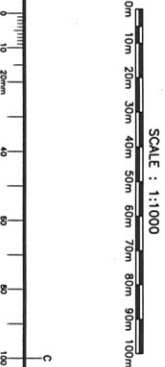
ISSUED FOR TENDER

DATE: WEDNESDAY, JULY 1ST, 2020

DRAWING LIST

DRAWING NO.	TITLE
CNL	EXISTING CONDITIONS AND REMOVALS PLAN
C-001	PROPOSED SITE PLAN
C-002	PROPOSED SITE LAYOUT AND GRADING PLAN SHEET 1 OF 2
C-003	PROPOSED SITE LAYOUT AND GRADING PLAN SHEET 2 OF 2
C-004	BEACH ACCESS TRAIL PLAN, PROFILE AND SECTIONS
C-005	BEACH ACCESS TRAIL PLAN, PROFILE AND SECTIONS
C-006	CONSTRUCTION DETAILS SHEET 1 OF 2
C-010	CONSTRUCTION DETAILS SHEET 2 OF 2
C-011	CONSTRUCTION DETAILS SHEET 2 OF 2
L-011	LANDSCAPE DETAILS
S-107	STRUCTURAL ADDITIONAL NOTES
S-108	STRUCTURAL BRIDGE SECTIONS AND DETAILS
S-109	STRUCTURAL BRIDGE SECTIONS AND DETAILS
S-110	STRUCTURAL SOAK PAVILION TRAIL PLAN, SECTIONS, ELEVATION, AND DETAILS
S-111	STRUCTURAL WASHROOM/KITCHENETTE BUILDING RAMP PLAN AND SECTIONS, NEW GENERATOR SLAB
M-101	HEATING WATER BUILDING 'C' FLOOR PLAN
E-101	ELECTRICAL LEGEND, NOTES AND SCHEDULES
E-102	ELECTRICAL SYSTEMS PLANS
E-103	WATER TREATMENT BUILDING AND BUILDING 'H' ELECTRICAL SYSTEMS PLANS
E-104	ELECTRICAL SCHEMATIC AND DETAILS
E-105	ELECTRICAL PANEL AND LOADING SCHEDULES

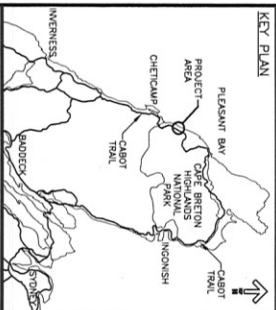




BUILDING DESCRIPTION LEGEND	
A	EXISTING INTERPRETIVE CENTRE FOUNDATION
B	EXISTING WASHROOM AND KITCHENETTE SHELTER
C	EXISTING WATER TREATMENT BUILDING
E	EXISTING WASHROOM AND KITCHENETTE SHELTER
F	EXISTING PICNIC SHELTER
G	EXISTING PIT PRIVY
H	EXISTING BATTERY ROOM

LEGEND	
	WATER SPIGOT
	VALVE CHAMBER
	WELL
	SANITARY MANHOLE
	SOLAR BOLLARD LIGHT
	HIGHWAY CENTERLINE
	EDGE OF GRAVEL
	FENCE LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	BUILDING OUTLINE
	VEGETATION
	VEGETATION TO BE REMOVED
	DRAINAGE DITCH

NOTE:
LIDAR DATA BASED ON NAD83 (GSR8) UTM ZONE 20
SURVEY DATA COLLECTED BY STANTEC OCT 2016, DEC
2018, JUN 2019 AND OCT 2019.



Parks Canada Parks Canada



0	ISSUED FOR TENDER	07/01/2020
revisions	date	date
project	project	project

PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

EXISTING CONDITIONS
AND
REMOVALS PLAN

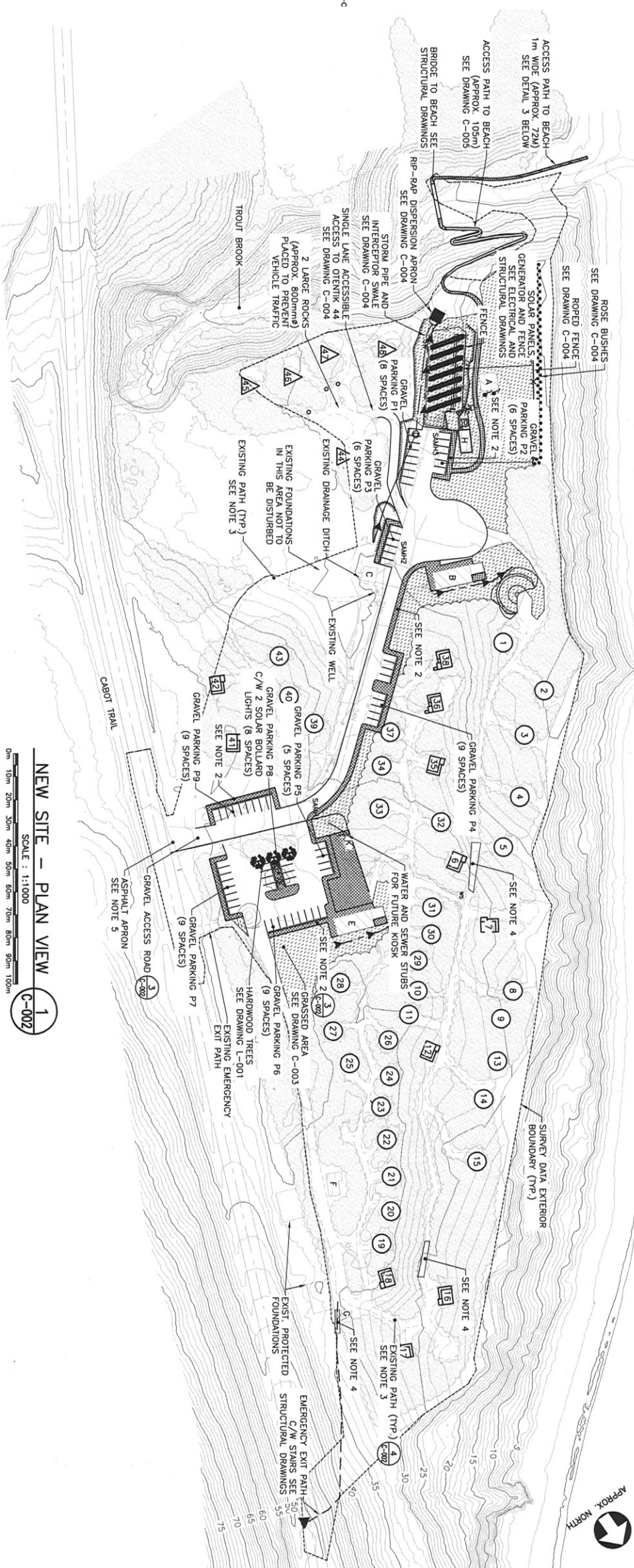
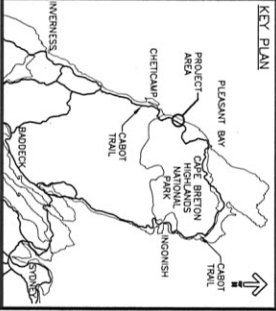
designed C.B.	conçu
date 2019.08.30	date
drawn K.J.	dessiné
date 2019.08.30	date
approved C.B.	approuvé
date 2019.12.02	date

Project Manager	Administrateur de projets PCA
Project number	no. du projet
01092017	
drawing no.	no. du dessin
C-001	

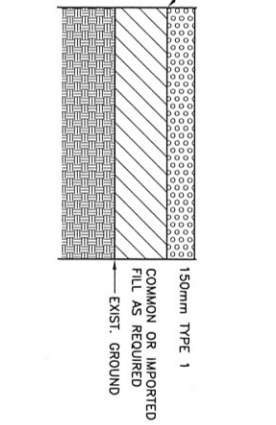
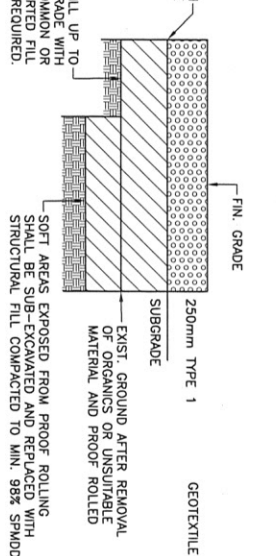
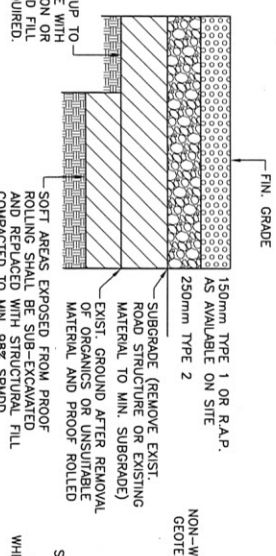
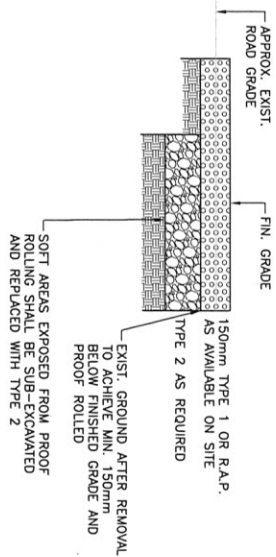
- NOTES:
1. ALL DISTURBED AND EXPOSED AREAS SHALL BE RESTORATED WITH MINIMUM 150mm TOPSOIL AND HYDROSEED. SEE DRAWING L-101.
 2. INSTALL 2.0m WIDE TYPE 1 GRAVEL STRIP AT END OF PARKING STALLS. SEE DETAIL 3 ON THIS DRAWING.
 3. CAMP SITES, OTENTIKS AND MICRO CUBES CONSTRUCTION TO BE COMPLETED BY PARKS CANADA.
 4. AREA OF EXISTING PATH INDICATED ON PLAN TO BE REGRADED TO CREATE CONSISTENT SLOPE OF PATH TO A MAXIMUM 10% OR AS DIRECTED BY PARKS. APPROX. 60% OR 5500m² OF EXISTING PATHS WILL NEED TO BE RESURFACED AS DIRECT BY PARKS AND/OR SITE VERIFIED.
 5. ASPHALT APRON TO BE MAINTAINED OR REINSTATED AS PER DEPARTMENTAL REPRESENTATIVE.
 6. ALL DIMENSIONS INDICATED ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. PIPE SIZES INDICATED ARE IN MILLIMETERS. ALL ELEVATIONS ARE GEODETIC.
 7. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND SHALL COMPLY WITH THE PERMIT REQUIREMENTS AND CONDITIONS.
 8. DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION PROVIDED BY NATURAL RESOURCES CANADA AND SURVEY DATA BY STATIG. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE OF DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
 9. MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS.
 10. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
 11. ONCE CONSTRUCTION IS COMPLETE, ALL SURFACES SHALL HAVE POSITIVE DRAINAGE WITHOUT PONING.
 12. MAINTAIN SITE IN TIDY CONDITION FREE FROM ACCUMULATION OF WASTE PRODUCTS AND DEBRIS. UPON OBTAINING SUBSTANTIAL PERFORMANCE OF THE WORK, REMOVE SURPLUS PRODUCTS, TOOLS, MACHINERY AND EQUIPMENT FROM THE SITE. COMPLETION OF CLEANUP IS REQUIRED FOR TOTAL PERFORMANCE OF THE WORK.
 13. CONTRACTOR SHALL PROVIDE A RECORD INFORMATION PACKAGE CONSISTING OF REDLINE DRAWING, MARK-UPS AND A FINAL SURVEY. FINAL SURVEY SHALL BE COMPLETED BY CONSTRUCTION SURVEYORS AT THE CONTRACTORS OWN EXPENSE AND SHALL INCLUDE LOCATES OF ALL ABOVE AND BELOW GRADE INFRASTRUCTURE CONSTRUCTED. SUBMITTAL OF THE FINAL SURVEY SHALL INCLUDE AUTOCAD FILE AND RAW POINTS DATA USING METRIC UNITS IN NAD83 (CSRS2010) UTM ZONE 20 AND CANADIAN GEODETIC VERTICAL DATUM (GVD07).
 14. CONTRACTOR MUST TRAVEL ON ROADS AND PATHS AS MUCH AS POSSIBLE. ANY DEVIATION FROM THESE SURFACES MUST BE APPROVED BY DEPARTMENTAL REPRESENTATIVE AND FULLY RESTORATED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE DEPARTMENTAL REPRESENTATIVE.
 15. EXISTING FOUNDATIONS MAY BE PRESENT IN AREAS ON THE SITE. EXACT LOCATIONS TO BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE. EXCAVATION AND CONSTRUCTION ACTIVITIES SHALL NOT DISTURB EXISTING FOUNDATIONS.
 16. CONTRACTOR TO COMPLETE COMMISSIONING OF EXISTING WATER AND SANITARY SYSTEMS, COMMISSIONING TO BE AS FOLLOWS:
 - 16.1. UNDERGROUND WATER PIPING – FOLLOW "SITE WATER UTILITY DISTRIBUTION PIPING" SECTION 33 14 16, FOR TESTING, FLUSHING AND DISINFECTING.
 - 16.2. WATER TREATMENT SYSTEM – FOLLOW "WATER TREATMENT SYSTEM" SECTION 22 31 13.01, FOR INSPECTION, TESTING AND START-UP.
 - 16.3. UNDERGROUND SANITARY SEWER PIPING – FOLLOW "PUBLIC SANITARY UTILITY SEWERAGE PIPING" SECTION 33 31 11, FOR FIELD TESTING.
 - 16.4. MANHOLES/SEPTIC TANKS – FOLLOW "MAINTENANCE HOLES AND CATCH BASIN STRUCTURES" SECTION 33 05 16, FOR LEAKAGE TESTING.
 - 16.5. CONTRACTOR TO CONDUCT A TIGHTNESS TEST TO ALLOW DEPARTMENTAL REPRESENTATIVE TO WITNESS PERFORMANCE.

BUILDING DESCRIPTION LEGEND	
A	NEW INTERPRETIVE CENTRE (BY OTHERS)
B	EXISTING WASHROOM AND KITCHENETTE SHELTER
C	EXISTING WATER TREATMENT BUILDING
E	EXISTING WASHROOM AND KITCHENETTE SHELTER
F	EXISTING PICNIC SHELTER
G	EXISTING PIT PRIVY
H	EXISTING KITCHEN SHELTER
K	FUTURE KIOSK (N.I.C.)

LEGEND	
⊙	EXISTING WATER SPIGOT
⊙	EXISTING VALVE CHAMBER
⊙	EXISTING WELL
⊙	EXISTING SANITARY MANHOLE
⊙	STORM MANHOLE
⊙	EXISTING PATH
⊙	150mm TOPSOIL AND HYDROSEED
⊙	WALKING PATH STRUCTURE
⊙	GRAVEL ROAD/PARKING STRUCTURE
⊙	BUILDING OUTLINE
⊙	VEGETATION TO REMAIN
⊙	MICRO CUBES (NIC)
⊙	CAMP SITES (NIC)
⊙	OTENTIKS (NIC)



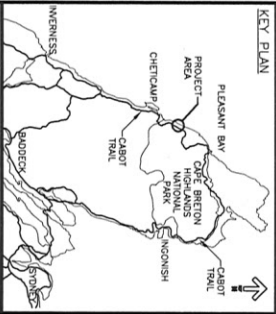
NEW SITE - PLAN VIEW
SCALE : 1:1000
0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m



PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

PROPOSED
SITE PLAN

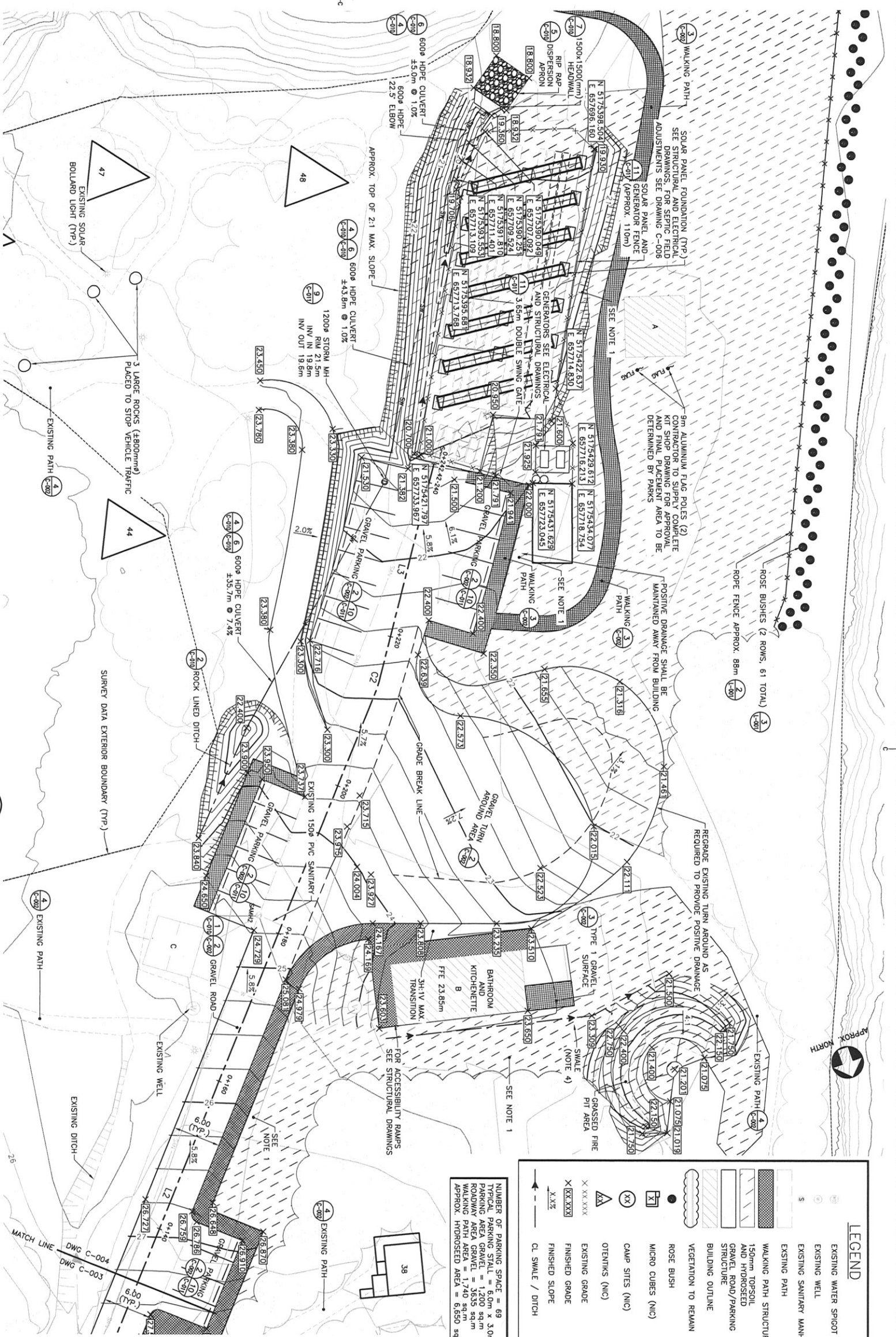
designed C.B.	2019.08.13	comp.
drawn K.J.	2019.09.09	designed
approved C.B.	2019.12.02	approved
date	2019.12.02	approval
Project Manager	Administrateur de projets PCA	no. du projet
01092017		
C-002		no. du dessin



PROPOSED
SITE LAYOUT AND
GRADING PLAN
SHEET 1 OF 2

designed C.B.	2019.09.13	corpu
drawn K.I.	2019.09.09	dessiné
approved C.B.	2019.12.02	approuvé
date 2019.12.02		Submission
POA Project Manager	Administrateur de projets PCA	
Project number	01092017	no. du projet
drawing no.	C-003	no. du dessin

0	ISSUED FOR TENDER	07/01/2020
revisions		date
project		project



SOUTH - GRADING PLAN
1
C-004

SCALE: 1:250
0m 5m 10m 15m 20m 25m

NOTES:

1. REINSTATE ALL DISTURBED AND EXPOSED AREAS WITH 150mm TOPSOIL AND HYDROSEED.
2. DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION DATA BY STATREC. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF CONSTRUCTION OF DISCREPANCIES.
3. REFER TO DRAWING C-002 FOR BUILDING DESCRIPTION LEGEND AND ADDITIONAL PROJECT NOTES.
4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM SWALE MIN. 1%.
5. REFER TO DRAWING C-002 FOR ADDITIONAL PROJECT NOTES.

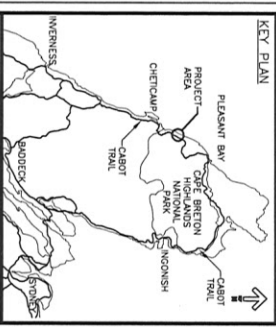
LINE TABLE			
LINE #	LENGTH	DIRECTION	START POINT (N.E)
L2	121.128	S50° 35' 13.43"W	5175445.3917, 657753.1224
L3	27.763	S42° 44' 14.80"W	5175443.9824, 657751.6289

CURVE TABLE			
CURVE #	RADIUS	LENGTH	CHORD DIRECTION
C2	15.000	2.055	S46° 39' 44.12"W

LEGEND

- EXISTING WATER SPICOT
- EXISTING WELL
- EXISTING SANITARY MANHOLE
- EXISTING PATH
- WALKING PATH STRUCTURE
- 150mm TOPSOIL AND HYDROSEED
- GRAVEL ROAD/PARKING STRUCTURE
- BUILDING OUTLINE
- VEGETATION TO REMAIN
- ROSE BUSH
- MICRO CUBES (NIC)
- CAMP SITES (NIC)
- ORIENTIMS (NIC)
- EXISTING GRADE
- FINISHED GRADE
- FINISHED SLOPE
- CL SWALE / DITCH

NUMBER OF PARKING SPACE = 69
TYPICAL PARKING STALL = 6.0m x 3.0m
PARKING AREA GRAVEL = 1200 sq.m
GRAVEL ROAD/PARKING AREA = 3350 sq.m
WALKING PATH AREA = 1740 sq.m
APPROX. HYDROSEED AREA = 6,650 sq.m



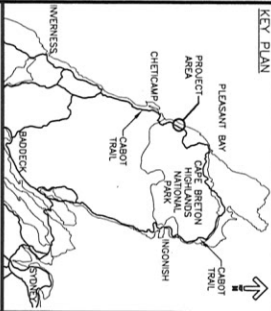
Parks Canada
Canada



PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

SITE LAYOUT AND
GRADING PLAN
SHEET 2 OF 2

designed C.B.		conçu
date 2019.09.13		
drawn K.J.		dessiné
date 2019.09.09		
approved C.B.		approuvé
date 2019.12.02		
Project Manager	Administrateur de projets POA	
Project number	no. du projet	01092017
drawing no.	no. du dessin	C-004



NOTE:
1. REFER TO DRAWING C-002 FOR ADDITIONAL PROJECT NOTES.



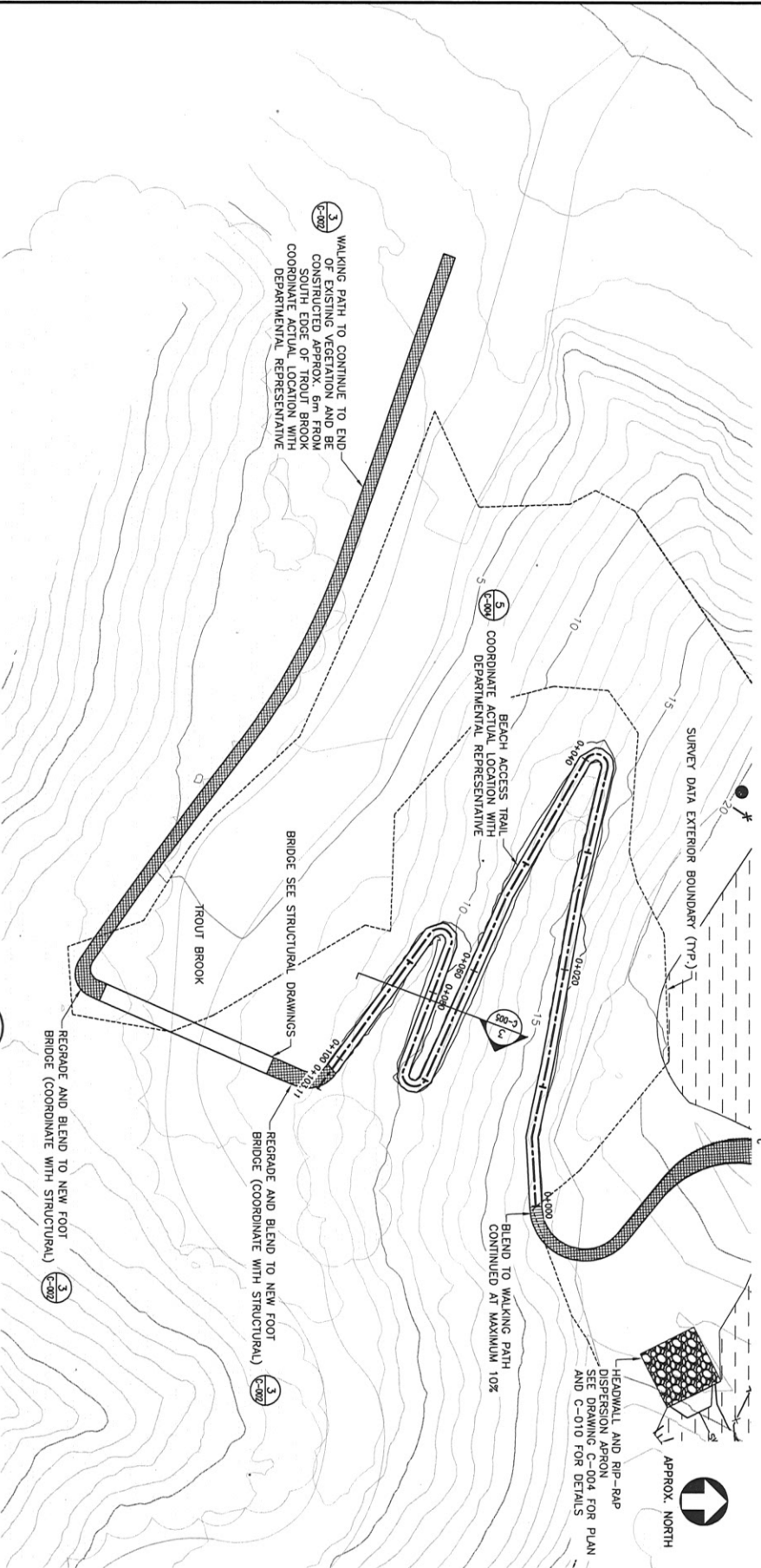
0	ISSUED FOR TENDER	07/01/2020
project	date	

PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

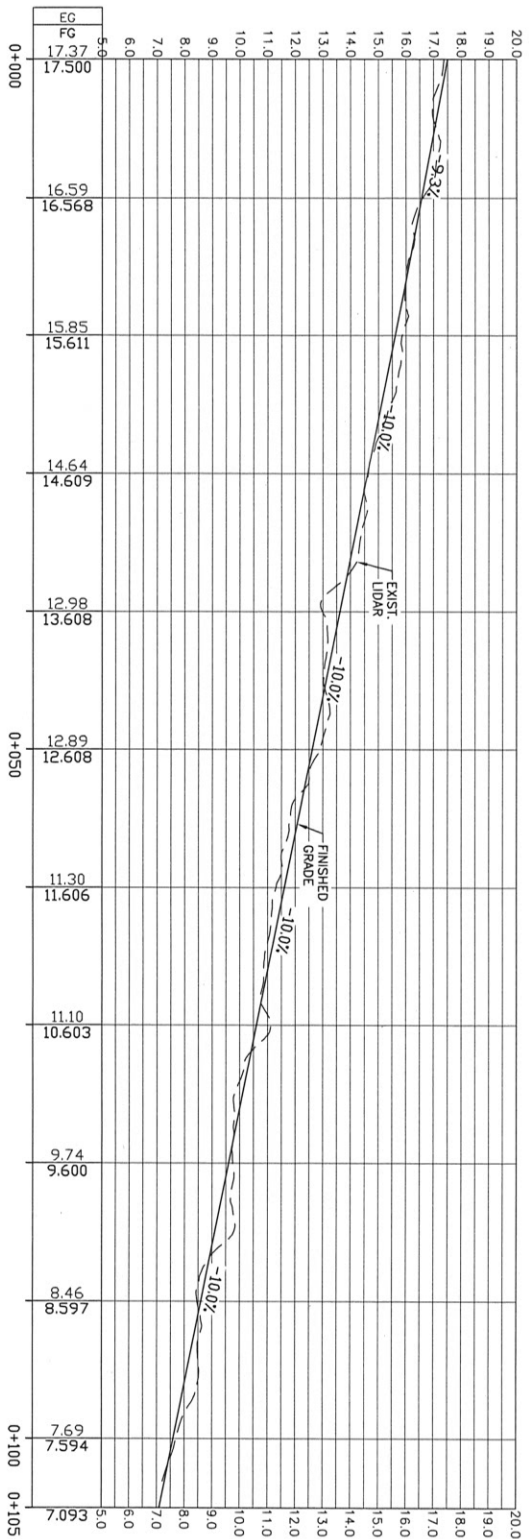
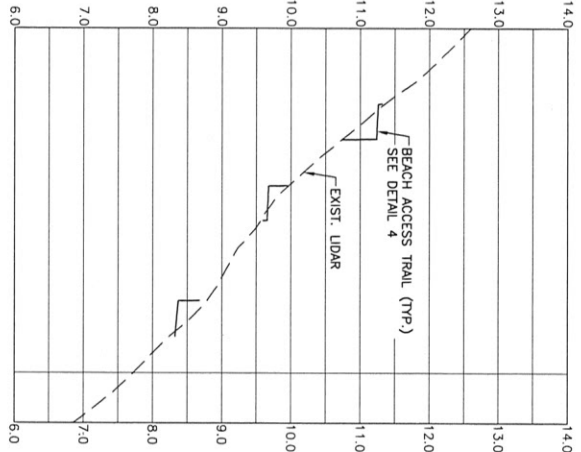
BEACH ACCESS TRAIL
PLAN, PROFILE
AND SECTIONS

designed C.B.	date	2019.11.10	checked	date	2019.11.10
drawn K.J.L.	date	2019.11.10	approved C.B.	date	2019.12.02
Project Manager	no. du projet	01092017	no. du dessin		

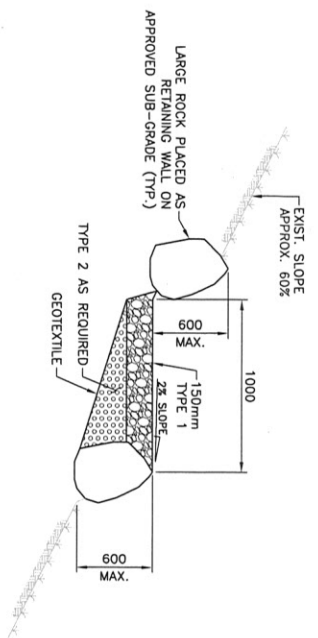
BEACH ACCESS TRAIL – PLAN VIEW
1
C-005



SECTION A



BEACH ACCESS TRAIL DETAIL
4
C-005

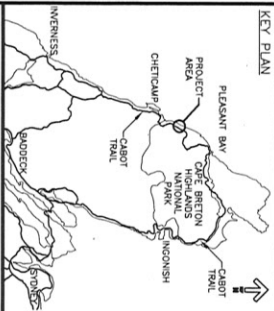


BEACH ACCESS TRAIL – PROFILE VIEW
2
C-005



BEACH ACCESS TRAIL – PLAN VIEW
1
C-005





NOTES:
1. REFER TO DRAWING C-002 FOR ADDITIONAL PROJECT NOTES.



0	ISSUED FOR TENDER	07/01
revisions		date

PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

DRAINAGE FIELD
DETAILS

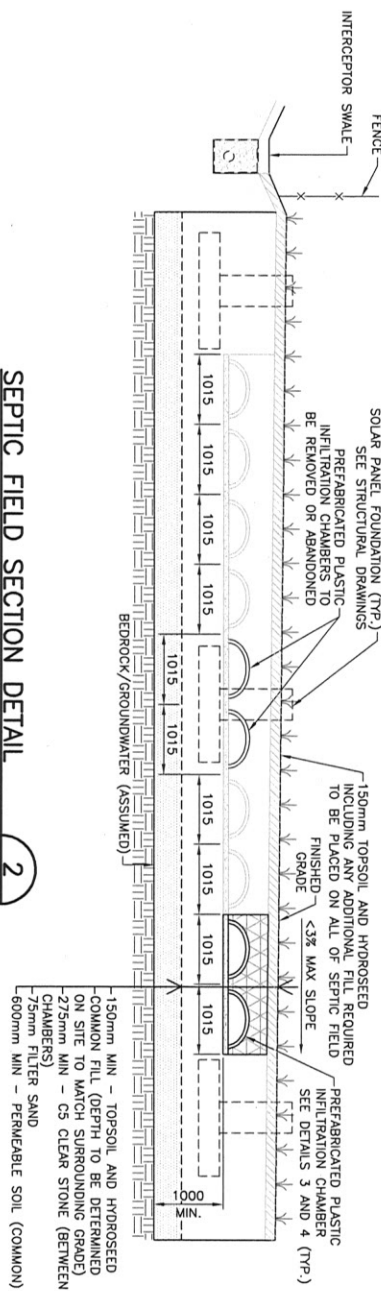
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date 2019.12.01	
drawn K.J.	dessiné
date 2019.12.01	
approved C.B.	approuvé
date 2019.12.02	
Tender	Soumission
PCd Project Manager	Administrateur de projets PCA
project number 01092017	no. du projet
drawing no. C-006	no. du dessin

KEY PLAN



SEPTIC FIELD SECTION DETAIL

SCALE: 1:50
C-006



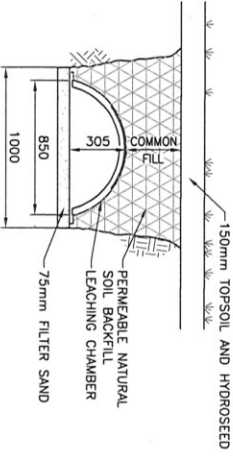
GRAVITY FED INFILTRATION CHAMBER DETAIL

SCALE: NTS
C-006



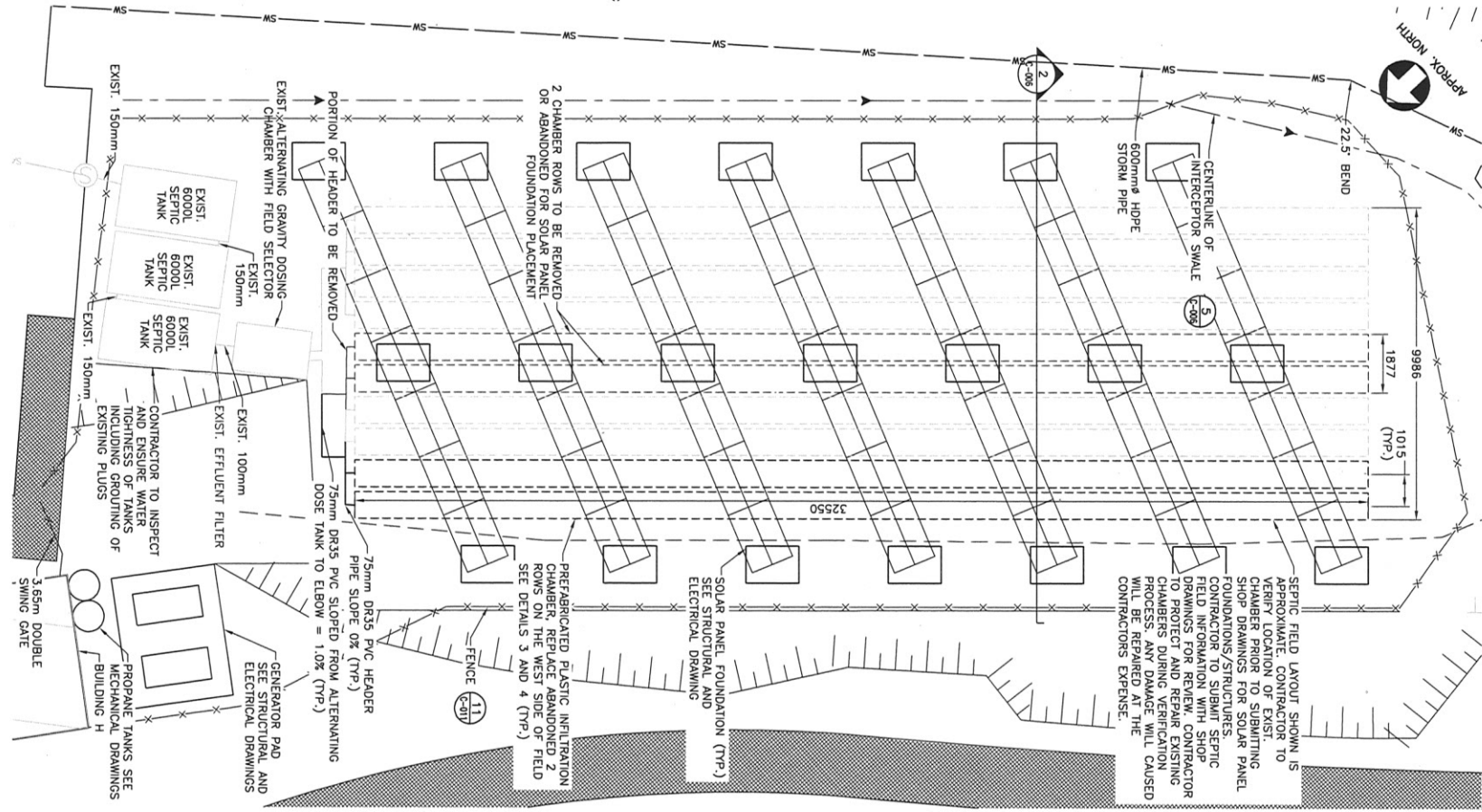
GRAVITY FED INFILTRATION CHAMBER SECTION

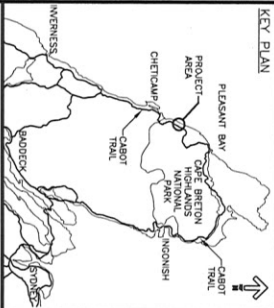
SCALE: NTS
C-006



DRAINAGE FIELD PLAN DETAIL

SCALE: 1:100
C-006





NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.
2. REFER TO DRAWING C-002 FOR ADDITIONAL
PROJECT NOTES.

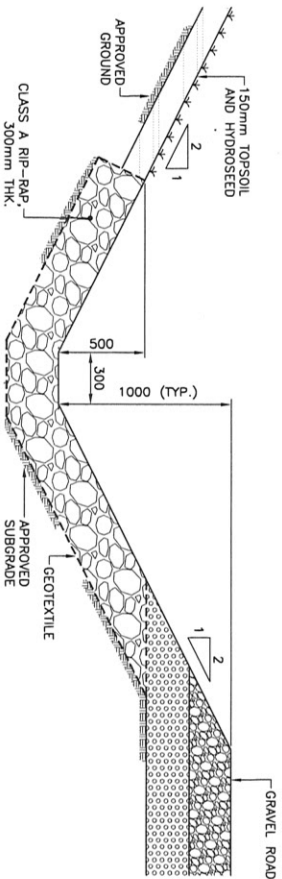


0	ISSUED FOR TENDER	07/01/2020
project	date	

PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

designed C.B.	2019.09.09	conf.
drawn R.C.	2019.11.13	drawn
approved C.B.	2019.12.02	approved
date	2019.12.02	
Project Manager	Administrateur du projet PCA	
project number	01092017	
drawing no.	C-010	no. du dessin

CONSTRUCTION
DETAILS
SHEET 1 OF 2

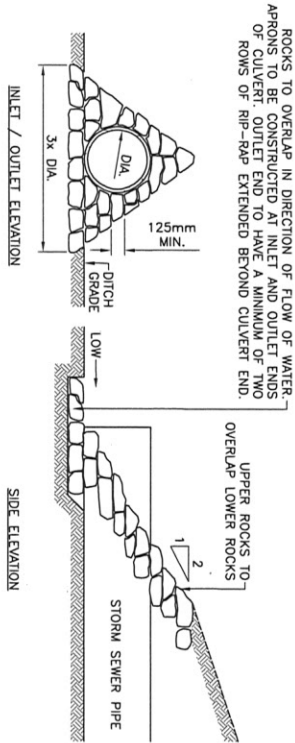


ROCK LINED DITCH

NOT TO SCALE

C-003

C-004

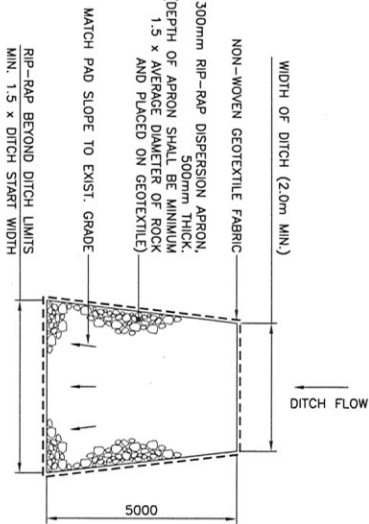


RIP-RAP AT CULVERT END

SCALE : N.T.S.

C-003

C-004

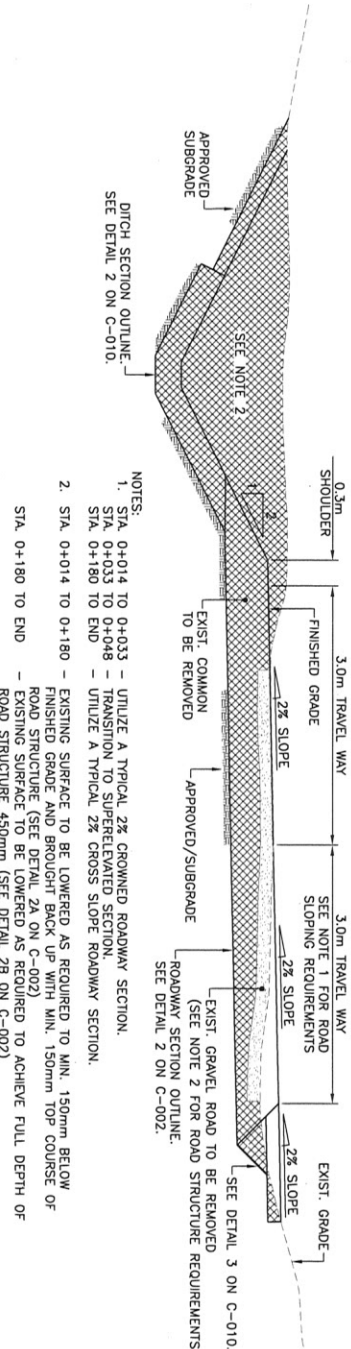


RIP-RAP DISPERSION APRON

SCALE : N.T.S.

C-003

C-004

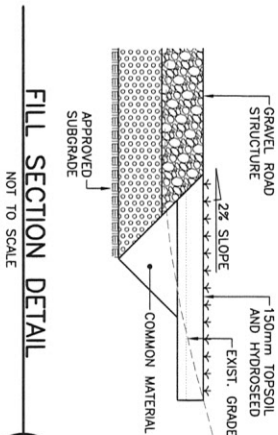


ROAD GRADING SECTION DETAIL

NOT TO SCALE

C-003

C-004

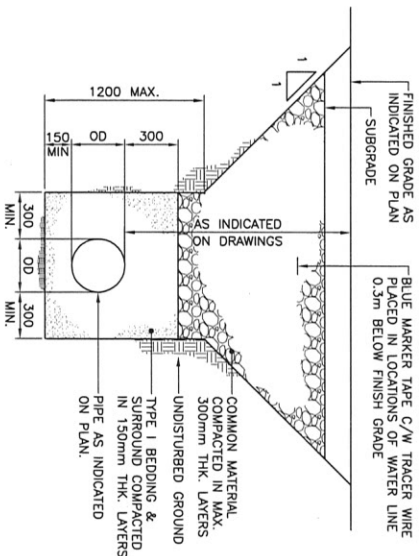


FILL SECTION DETAIL

NOT TO SCALE

C-003

C-004

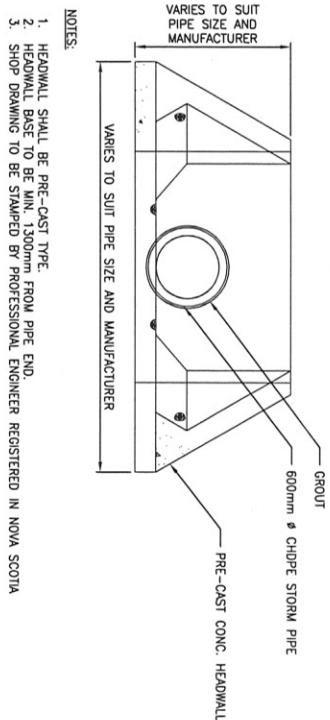


TRENCH DETAIL - SINGLE PIPE

SCALE : N.T.S.

C-003

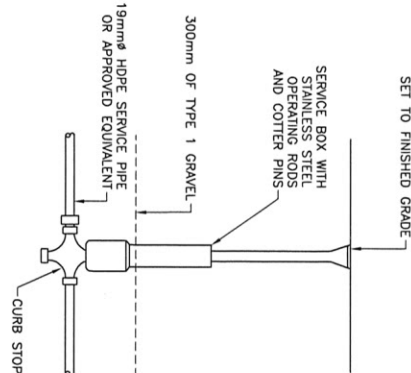
C-004



HEADWALL DETAIL

NOT TO SCALE

C-004

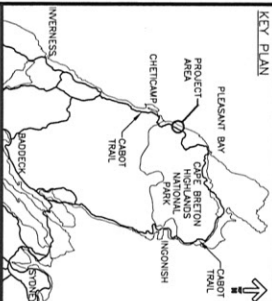


CURB STOP W/ VALVE BOX

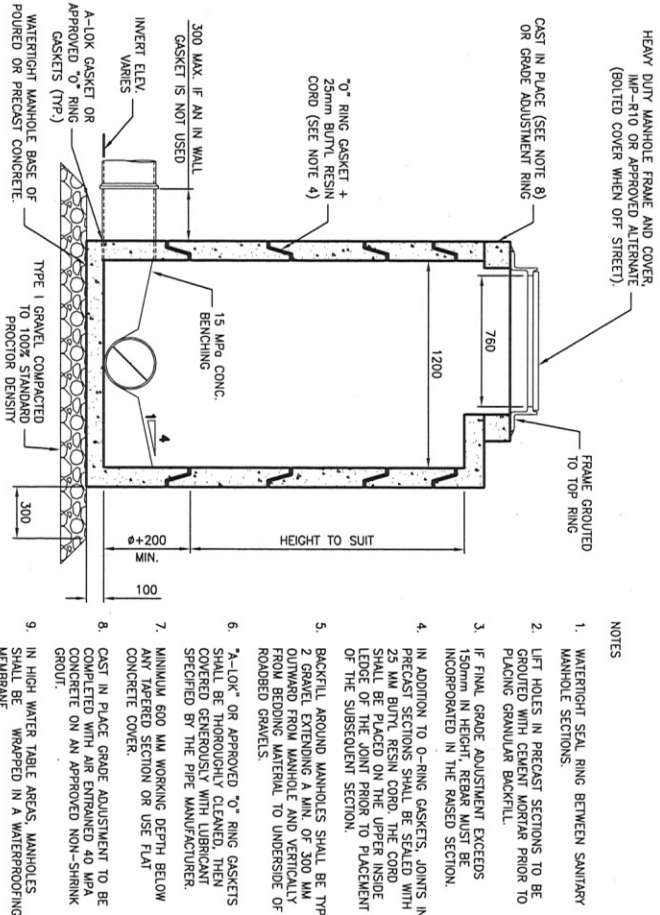
SCALE : N.T.S.

C-003

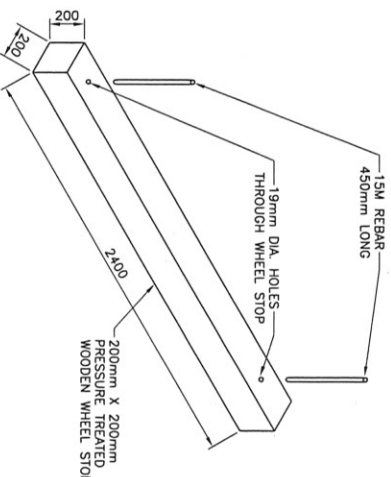
C-004



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.
2. REFER TO DRAWING C-002 FOR ADDITIONAL
PROJECT NOTES.



- NOTES
1. WATERSTOP SEAL RING BETWEEN SANITARY MANHOLE SECTIONS.
2. LIFT HOLES IN PRECAST SECTIONS TO BE GROUDED WITH CEMENT MORTAR PRIOR TO PLACING GRANULAR BACKFILL.
3. IF FINAL GRADE ADJUSTMENT EXCEEDS 150mm IN HEIGHT, REBAR MUST BE INCORPORATED IN THE RAISED SECTION.
4. IN ADDITION TO O-RING GASKETS, JOINTS IN 25 MM BIRTH RESIN COED JOINTS WITH SEALANT SHALL BE PLACED ON THE UPPER INSIDE SLOGE OF THE JOINT PRIOR TO PLACEMENT OF THE SUBSEQUENT SECTION.
5. BACKFILL AROUND MANHOLES SHALL BE TYPED GRAVEL, EXTENDING A MIN. OF 300 MM TO THE JOINT AND 150 MM TO THE END OF THE FROM BEDDING MATERIAL TO UNDERSIDE OF ROADED GRAVELS.
6. "A-LOK" OR APPROVED "O" RING GASKETS SHALL BE THOROUGHLY CLEANED, THEN COVERED HEROSELY WITH LUBRICANT SPECIFIED BY THE PIPE MANUFACTURER.
7. MINIMUM 600 MM WORKING DEPTH BELOW ANY JARED SECTION OR USE FLAT CONCRETE COVER.
8. CAST IN PLACE GRADE ADJUSTMENT TO BE COMPLETED WITH AIR ENTRAINED 40 MPa CONCRETE ON AN APPROVED NON-SHINK GRUOD.
9. IN HIGH WATER TABLE AREAS, MANHOLES SHALL BE WRAPPED IN A WATERPROOFING MEMBRANE.



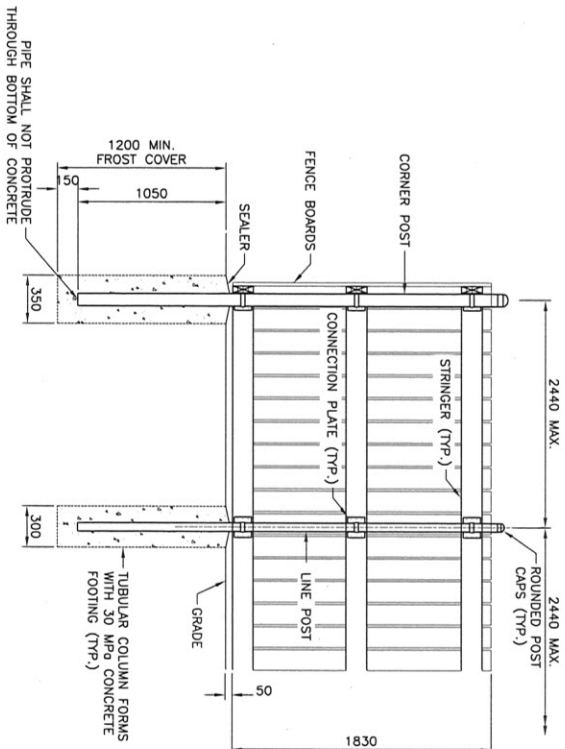
WOODEN WHEEL STOP

SCALE : N.T.S

10
C-003
C-004



SCALE : N.T.S.



FENCE DETAILS

SCALE : N.T.S

11
C-004

ELEVATION - FENCE

1. FENCE AND GATES TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. GATE SHALL BE FABRICATED WITH STEEL DRAWING TO FOLLOW FENCE DETAIL GATE TO BE 1.65m WIDE, DOUBLE SWING AND BE LOCKABLE. GATE HARDWARE TO BE PRESENTED WITH SHOP DRAWING.
3. FENCE & GATE SHOP DRAWINGS TO BE APPROVED PRIOR TO FABRICATION.
4. GATE SIZES MUST BE COORDINATED WITH GATE NUMBER.
5. COMPONENT PARTS:
 - 5.1. END POST : MINIMUM 89mm O.D. GALVANIZED
 - 5.2. GATE POST : MINIMUM 114mm O.D. GALVANIZED
 - 5.3. END OR GATE POST BRACE: 43mm O.D. CORNER OR STRAINING POST: 89mm O.D. 43mm O.D. DOUBLE BRACE GALVANIZED
 - 5.4. LINE POST: 60mm O.D. GALVANIZED CONNECTION PLATES: GALVANIZED POST BRACKET BOLTED OR WELDED TO 150mmx125mmx6mm GALVANIZED PLATE
 - 5.5. PRESSURE TREATED FENCE AND GATE STRAINERS: PRESSURE TREATED LUMBER 50mmx150mmx4400mm TOP, MIDDLE AND BOTTOM
 - 5.6. FENCE BOARDS: PRESSURE TREATED LUMBER 25mmx150mmx1830mm INSTALLED WITH 15mm SEPARATION



PARKS CANADA
TROUT BROOK
CAMPGROUND
PHASE 2

CONSTRUCTION
DETAILS
SHEET 2 OF 2

designé	C.B.	comp
domaine	2019.11.13	
R.C.		descript
2019.11.13		
opposé C.B.		opposé
2019.12.02		
lender		Scum330
PCA Project Manager		Administrateur de projets PCA
project number		no du projet
01092017		
drawing no.		no du dessin



Plant List				
SYM	Qty	Botanical Name	Common Name	
DECIDUOUS TREES:				
AS	refer to plan	<i>Acer saccharum</i>	Sugar Maple	60
DECIDUOUS SHRUBS:				
RCA	refer to plan	<i>Rosa carolina</i>	Pasture Rose	600
				3 Gall.
				W/B.

GENERAL NOTES:

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS. COORDINATE STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DETAILED DIMENSIONS, LOCATIONS OF DOOR AND WINDOW OPENINGS, SLOPES, CURBS, PITS, PADS, DEPRESSIONS, ROOF/FLOOR DRAINS, TRENCHES, MOUNTED OR SUSPENDED UNITS, WATERPROOFING & DUCT OPENINGS.
2. CONTRACTOR SHALL COMPLY AND BE RESPONSIBLE FOR ALL WORK TO BE COMPLETED IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, PROVINCIAL, AND OWNERS OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
3. DO NOT IMPOSE CONSTRUCTION LOADS ON THE STRUCTURE IN EXCESS OF THE DESIGN LOADS.
4. REFER TO SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
5. ALL VERTICAL ELEVATIONS ARE IN MILLIMETERS AND PLAN DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION START AND REPORT ALL DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
6. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS, ENVIRONMENTAL REGULATIONS.
7. THE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, 2015 EDITION PART 4 AND REFERENCED STANDARDS WITHIN.
8. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR CONSTRUCTION, LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. ADDITIONAL SUPPORT WHERE REQUIRED.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR TO LEAVE EQUIPMENT AND MACHINERY RUNNING ONLY WHILE IN USE.
12. CONTRACTOR TO MAKE GOOD ALL AFFECTED AREAS TO THE ACCEPTANCE OF THE ENGINEER. DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.
13. DO NOT INSTALL OPENINGS, SET INSERTS, DETAIL OR ATTACH TO THE STRUCTURAL BUILDING COMPONENTS, EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS, WITHOUT WRITTEN CONSENT OF THE ENGINEER.
14. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF NOVA SCOTIA TO PERFORM AND TAKE RESPONSIBILITY FOR ANY TEMPORARY BRACING, SHORING OR OTHER DESIGNS TO COMPLETE THE CONSTRUCTION.
15. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO PREVENT INADEQUATE UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL, AND CONFORMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS. ALL STRUCTURAL SHOP DRAWINGS ARE TO BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA.
16. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ALL CONCRETE PLACEMENT.
17. CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL PROPOSERS BEING SPECIFIED FOR WORK FOR THE INTENDED USE AS PART OF THIS CONTRACT AND OR ANY OTHER FORM OF COMMUNICATION RELATING TO THIS PROJECT PRIOR TO START OF WORK.
18. WHERE THERE IS A DISCREPANCY BETWEEN PROJECT SPECIFICATIONS AND GENERAL NOTES, INFORMATION SHOWN IN SPECIFICATIONS SHALL GOVERN.
19. OPENINGS IN SLAB, FLOOR, SHALL BE COORDINATED WITH STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND/OR OTHER PERTINENT DRAWINGS.
20. REVIEW LOCATION OF INTENDED AND PROPOSED CONSTRUCTION JOINTS WITH THE ENGINEER PRIOR TO PROCEEDING.

EXCAVATION NOTES:

1. ALL DEMOLITION WASTE SHALL BE DISPOSED AS APPROVED BY SITE REP.
2. ALL COMPACTED BACKFILL MATERIALS SHALL BE PLACED IN MAXIMUM 150mm LIFTS AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY (SPD) UNLESS APPROVED OTHERWISE BY A GEOTECHNICAL ENGINEER.
3. IN AREAS REQUIRING FILL, ONLY APPROVED SITE EXCAVATED MATERIAL OR APPROVED IMPORTED MATERIALS WILL BE PERMITTED.
4. COMPACTION EQUIPMENT SHALL BE APPROVED BY THE ON SITE GEOTECHNICAL ENGINEER.
5. FINISH GRADES SHALL BE AS PER EXISTING CONDITIONS, OR SLOPE AWAY FROM NEW BUILDINGS STRUCTURES. ONCE CONSTRUCTION IS COMPLETE, ALL SURFACES TO HAVE POSITIVE DRAINAGE WITHOUT PONDING.
6. GRANULAR AND BACKFILLING MATERIALS REFERRED TO ON THESE DRAWINGS:
A) TYPE 1 FILL: CLEAN NATURAL SAND AND GRAVEL MATERIAL, FREE FROM SILT, CLAY, LOAM, FRAGILE OR SOLUBLE MATERIALS AND VEGETABLE MATTER AND GRADED WITHIN 15mm SPECS;
B) TYPE 2 FILL: CLEAN ANGULAR CRUSHER RUN NATURAL STONE, FREE FROM SHALE, CLAY, FRAGILE MATERIALS, ROOTS AND VEGETABLE MATTER AND GRADED WITHIN 15mm SPECS;
C) SITE FILL: EXCAVATED PERVIOUS SOIL, FREE FROM ROOTS, ROCKS LARGER THAN 75mm AND BUILDING DEBRIS. EXCAVATED MATERIAL SHALL BE APPROVED BY ENGINEER BEFORE USE AS FILL, IF UNSUITABLE, SUBSTITUTE WITH TYPE 2 MATERIAL.
7. MATERIALS
A. ENGINEERED FILL, BACK FILL AND SUBBASE MATERIAL SHALL BE A SOIL GRANULAR MATERIAL CONFORMING TO THE GRADATION CRITERIA REFERENCED IN THE GEOTECHNICAL REPORT.
B. SAND SHALL CONSIST OF CLEAN SAND HAVING HARD, DURABLE, UNCOATED GRAINS, FREE FROM DELETERIOUS MATTER; FINENESS MODULUS SHALL BE 2.85+/- 0.20.
8. SUBMIT TEST RESULTS VERIFYING MATERIALS TO BE USED MEET THE ABOVE REQUIREMENTS.
9. EXCAVATIONS SHALL BE KEPT FREE OF WATER AND ANY UNDESIRABLE MATERIALS WHILE WORK IS IN PROGRESS. NOTIFY OWNER'S REPRESENTATIVE WHEN EXCAVATION HAS BEEN RECOMPACTED AND NO REINFORCING PLACED. DO NOT PLACE CONCRETE UNTIL DIRECTED TO DO SO.
10. PROTECT BOTTOM OF EXCAVATIONS AGAINST FREEZING WHEN TEMPERATURE IS LESS THAN 2°C.
11. EXCAVATE TO LINES AND LEVELS NECESSARY TO PROPERLY COMPLETE THE WORK. MINIMUM SIDE SLOPES OF TEMPORARY EXCAVATIONS SHALL NOT EXCEED 1 TO 1 OR AS RECOMMENDED BY OCCUPATIONAL HEALTH AND SAFETY. CONTRACTOR TO ENSURE BOTTOM OF EXCAVATIONS ARE PROTECTED FROM DAMAGE TO EXCESS MOISTURE. CONSTRUCT SLOPES IN BOTTOMS OF EXCAVATIONS FOR DRAINAGE AS REQUIRED.
12. ALL EXCAVATED SOIL SURFACES SHALL BE PROOF ROLLED PRIOR TO THE PLACEMENT OF ANY BACKFILL. ANY SOFT AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH COMPACTED CLASS B GRANULAR MATERIAL.
13. ALL SOIL MATERIALS MUST BE PLACED AND COMPACTED IN THE DRY.
14. CONTRACTOR SHALL PROVIDE EXCAVATION, DRAINAGE, DEMATERING AND TEMPORARY FLOW DIVERSION THROUGHOUT THE PROJECT.

EARTHWORK

1. STRIP TOPSOIL, ORGANIC MATERIAL, AND LOOSE SOILS INSIDE THE PROJECT AREA. REMOVE EXISTING ASPHALT AND CONCRETE STRUCTURES WITHIN 150mm OF THE FINISHED FLOOR ELEVATION UNLESS NOTED OTHERWISE ON THE DRAWINGS. REMOVE THESE EXISTING MATERIALS COMPLETELY AT FOUNDATION LOCATIONS.
2. MATERIALS EXCAVATED BELOW INDICATED SUBGRADE ELEVATIONS, UNDER FOOTINGS, FOUNDATION BASES OR RETAINING WALLS SHALL BE REPLACED WITH LEAN CONCRETE FILL. BACK FILL OTHER AREAS WITH AUTHORIZED MATERIALS.
3. EXCAVATIONS SHALL BE KEPT FREE OF WATER AND ANY UNDESIRABLE MATERIALS WHILE WORK IS IN PROGRESS. NOTIFY OWNER'S REPRESENTATIVE WHEN EXCAVATION HAS BEEN RECOMPACTED AND REINFORCING PLACED. DO NOT PLACE CONCRETE UNTIL DIRECTED TO DO SO.
4. NO BACK FILLING OF FOUNDATION WALLS (EXCEPT RETAINING WALLS) SHALL BE DONE UNLESS WALLS ARE ACCURATELY BRACED OR BACK FILL IS PLACED EQUALLY ON BOTH SIDES OF WALL.
5. COMPACTION TESTING TO BE PERFORMED AS FOLLOWS:
A. FILL UNDER BUILDING SLAB: A MINIMUM OF ONE TEST PER LAYER FOR EVERY 100 SQUARE METER OF ENGINEERED FILL. EACH 200mm LIFT SHALL BE TESTED.
B. FOOTING AND TRENCH BACK FILL: A MINIMUM OF ONE TEST FOR EVERY 0.6m OF FILL DEPTH FOR FOOTINGS AND ONE TEST FOR EVERY 15 LINEAR METER OF TRENCH (MINIMUM ONE TEST PER TRENCH IF LESS THAN 15 METER).
C. WRITTEN TEST RESULTS SHALL BE RECEIVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY CONCRETE PLACEMENT.

FOUNDATION NOTES:

1. ON-SITE EXCAVATED MATERIAL SHALL NOT BE REUSED AS BACKFILL, UNLESS APPROVED BY ENGINEER.
2. ALL COLUMN AND WALL FOOTINGS SHALL BEAR ON APPROVED UNDISTURBED NATIVE SOILS OR ENGINEERED FILL AS APPROVED BY OWNERS GEOTECHNICAL CONSULTANT.
3. THE CONFIRMATION OF SUITABLE BEARING STRATA SHALL BE PERFORMED BY QUALIFIED GEOTECHNICAL PERSONNEL BEFORE BACKFILL IS PLACED, AND WHERE FOUNDATIONS AND SLABS ARE TO BE CONSTRUCTED OUTSIDE FACE OF FOUNDATION STRIP WALL TO COINCIDE WITH GRIDLINE UNLESS NOTED OTHERWISE ON THE FOUNDATION PLAN.
4. GEOTECHNICAL ENGINEER TO VERIFY THE BACKFILL AND COMPACTION PROCEDURES UNDER THE ENTIRE FOOTPRINT OF THE BUILDING. SOIL BEARING TO BE CONFIRMED TO HAVE (SLS) 100 kPa AND (ULS) 150 kPa.
5. CONCRETE SPECIFICATIONS:
CONCRETE SPECIFICATIONS:
SLABS AND RAMPS - C2 - 30MPa (ø 28 DAYS)
FOUNDATION IN SEPTIC FIELD - A3 - 30MPa ø 28 DAYS

CONCRETE NOTES:

1. THE CANADIAN STANDARDS ASSOCIATION CSA-A23.1-14/ A23.2-14 - LATEST EDITION "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" SHALL APPLY AND BE ADHERED TO.
2. CONCRETE REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO CURRENT CSA SPECIFICATION G30.18M-09 (R2014). ALL REINFORCING STEEL TO HAVE 400MPa YIELD STRENGTH.
3. ALL REINFORCING STEEL SHALL HAVE A PROTECTION OF CONCRETE NOT LESS THAN THE FOLLOWING UNO:
AT GROUND CONTACT SURFACES WHEN CONCRETE IS DEPOSITED AGAINST THE GROUND - 75mm
AT FORMED SURFACES EXPOSED TO GROUND OR WEATHER AFTER REMOVAL OF FORMS - 60mm
AT SURFACES NOT EXPOSED DIRECTLY TO GROUND OR WEATHER - 38mm
FOR SLAB ON GRADE, SEE DRAWINGS.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING WORK.
5. ALL EMBEDDED METALS SHALL BE FREE OF GREASE OR ANY AGENT THAT MAY INHIBIT ITS BOND WITH THE CONCRETE. ALL EMBEDDED METALS SHALL BE IN PLACE PRIOR TO POURING THE CONCRETE.
6. ANCHOR BOLT LOCATIONS TO BE CONFIRMED BEFORE AND AFTER CONCRETE PLACEMENT BY LEGAL SURVEY EXECUTED BY CONTRACTOR.
7. CONCRETE TEMPERATURE TO REMAIN AT 10°C OR HIGHER FOR A MINIMUM OF 7 DAYS. INSULATED TAPPS OR PORTABLE HEATERS MAY BE USED TO MAINTAIN REQUIRED TEMPERATURE.
8. REINFORCEMENT TO HAVE CLASS B TENSION SPLICES.
9. CRACK CONTROL JOINTS TO BE PLACED AT SPACING NOT EXCEEDING 4500mm. CONTRACTOR TO LOCATE AND COORDINATE WITH CONSTRUCTION ACTIVITIES.
11. CONTRACTOR TO CONFIRM ALL LOCATIONS OF THICKENED SLABS AT DOOR OPENING WITH ARCHITECTURAL DRAWINGS.

STRUCTURAL STEEL NOTES:

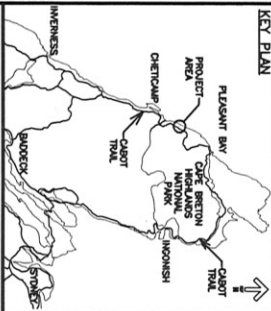
1. ALL WORK SHALL COMPLY IN ALL RESPECTS WITH CAN/CSA-S16-14 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS AMENDED TO DATE.
2. W, S AND WT SHAPES SHALL CONFORM TO THE REQUIREMENTS OF CSA G40.21 350W OR ASTM 992 GRADE 50.
3. PLATES, ROOFS, ANGLES AND CHANNEL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF CSA G40.21, GRADE 500W.
4. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF CSA G40.21 350W, CLASS C OR ASTM A500 GRADE C.
5. BOLTS, HEAVY HEX NUTS AND HARDENED WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. BOLTS, NUTS AND WASHERS SHALL BE PLAIN FINISH.
6. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS SHALL BE GALVANIZED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
7. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W99 AND SHALL BE PERFORMED BY COMPANIES CERTIFIED TO DIVISION 1 OR DIVISION 2.1 OF CSA STANDARD W47.1
8. BEAM CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH CISC HANDBOOK OF STEEL CONSTRUCTION. CONNECTIONS TO BE SIMPLE UNIFORMLY DISTRIBUTED LOAD FOR A MINIMUM OF 50% OF THE TOTAL GIVEN SPAN, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. CONNECTIONS FOR TENSION OR COMPRESSION MEMBERS SHALL BE PROPORTIONED FOR THE LOADS INDICATED IN THE DRAWINGS.
10. TYPICAL WORK POINT FOR ALL CONNECTIONS IS AT THE CENTRELINE OF MEMBERS. (U.L.O.) ANY OFFSETS REQUIRED BY THE CONTRACTOR ARE TO BE APPROVED BY THE ENGINEER.
11. WORKING POINTS FOR VERTICAL BRACING SHALL INTERSECT AT CENTRELINE OF A BEAM AND CENTRELINE OF COLUMN UNLESS NOTED OTHERWISE.
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING WORK. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCY.

TIMBER NOTES:

1. ALL TIMBER SHALL COMPLY WITH CSA 086-19.
2. ALL LUMBER USED IN BRIDGE, DECKING, HANDRAILS, GUARDRAILS AND KICKPLATES SHALL BE CEDAR No1/No2 U.N.O. LUMBER USED IN BRIDGE POSTS AND LEDGER BOARD SHALL BE SPF No. 1/2 AND PRESSURE TREATED.
3. LUMBER USED IN TIMBER CRIBBING SHALL BE EASTERN HEMLOCK, WESTERN HEMLOCK OR DOUGLAS FIR SPECIES ONLY.
4. TIMBER POLES SHALL MEET THE SPECIFICATIONS IN CSA 015-15 (R2019).
5. TIMBER POLES TO BE CLASS 2 RED PINE, AND SHALL BE TREATED WITH CCA PRESERVATIVE AND SHALL COMPLY WITH THE CSA 080-15.
6. PERFORATIONS IN TIMBER POLES SHALL BE TREATED WITH COPPER NAPHTHENEATE CONTAINING 2% COPPER FOR BRUSH OR SPRAY TREATMENTS.
7. ALL WORK AND MATERIALS SHALL COMPLY WITH THE NATIONAL BUILDING CODE OF CANADA 2015 EDITION.
8. CUTTING OF HOLES FOR REMOVAL OR STRUCTURAL FRAMING SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
9. TEMPORARY BRACING OF THE TIMBER STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. IF AIR WALKER IS USED NAIL SPACING SHALL BE REDUCED BY 1/3.
11. ALL TIMBER MATERIALS IN GOOD CONDITION SHALL BE SAVED FOR REUSE.
12. ALL NAILS SHALL BE 65mm COMMON GALV.
13. ALL CUT ENDS OF PRESSURE TREATED LUMBER USED IN THE BRIDGE POSTS AND LEDGER BOARDS SHALL BE TREATED WITH 2 COATS OF WATER BASED PT WOOD SEALER.
14. IN TIMBER CRIBBING, ALL CUT ENDS, SPIKE HOLES, BORE HOLES, PLUGGED HOLES AND ANY DAMAGE TO TREATED MATERIAL SHALL BE TREATED WITH COPPER NAPHTHENEATE CONTAINING 2% COPPER FOR BRUSH OR SPRAY TREATMENTS FOR FIELD CUTS.
15. TIMBER USED IN ACCESSIBILITY RAMPS SHALL BE No1/No2 AND BE PRESSURE TREATED.

Pointe
Canada

Pointe
Canada



PRIME CONSULTING LTD.
102 - 40 HIGHFIELD PARK DRIVE
DARTMOUTH, NS B3A 0A3
PROJECT NO. 10334246
APPROVED BY: 10334246
DATE: 2019.07.08
STANTEC ARCHITECTURE LTD.
102 - 40 HIGHFIELD PARK DRIVE
DARTMOUTH, NS B3A 0A3

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND SITE CONDITIONS SHOWN ON THE DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.
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NOTE: -FOUNDATION PACKAGE ALREADY INSTALLED (N.I.C.)



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C	ISSUED FOR 99% REVIEW	JUL 07 2020
B	ISSUED FOR 95% REVIEW	FEB 07 2020
revisions		

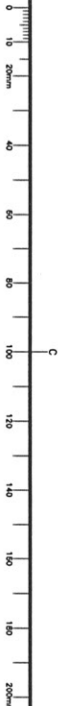
project
PARKS CANADA
TROUT BROOK
CAMPGROUND -
BUILDING PACKAGE
PHASE 2

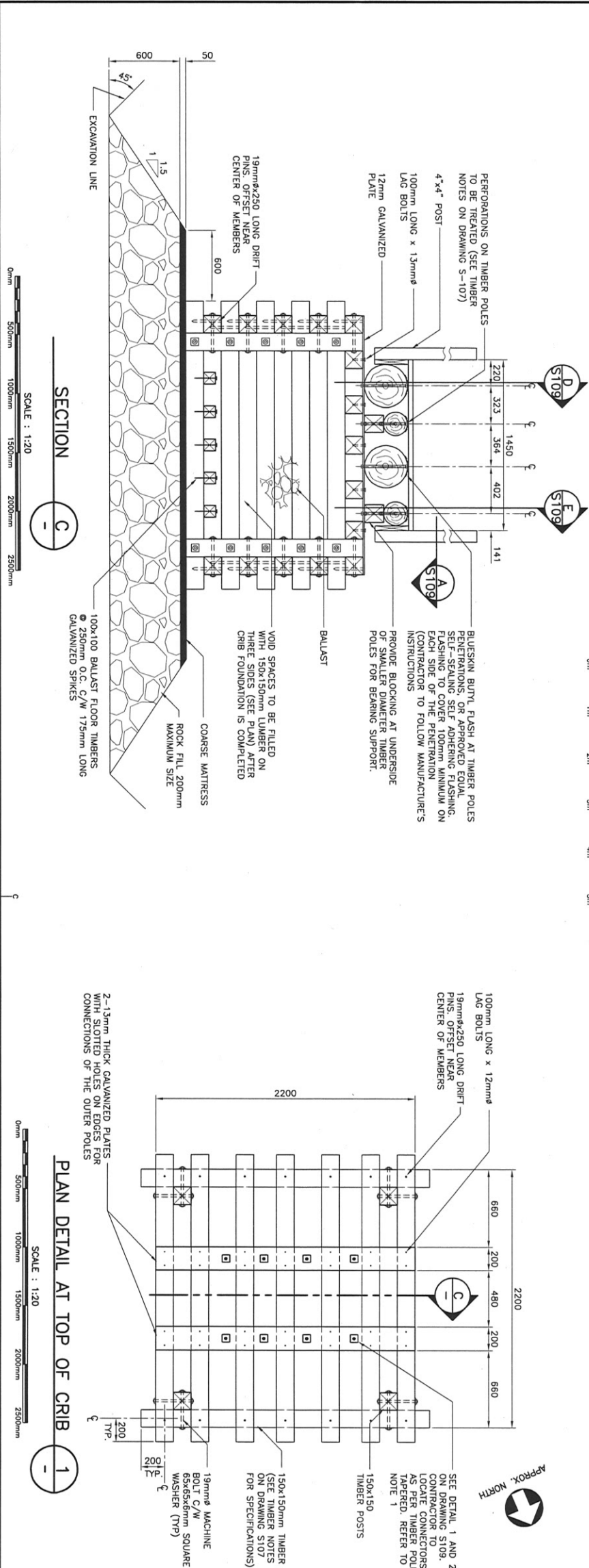
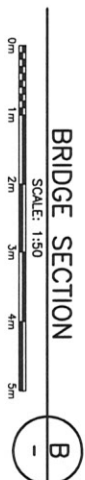
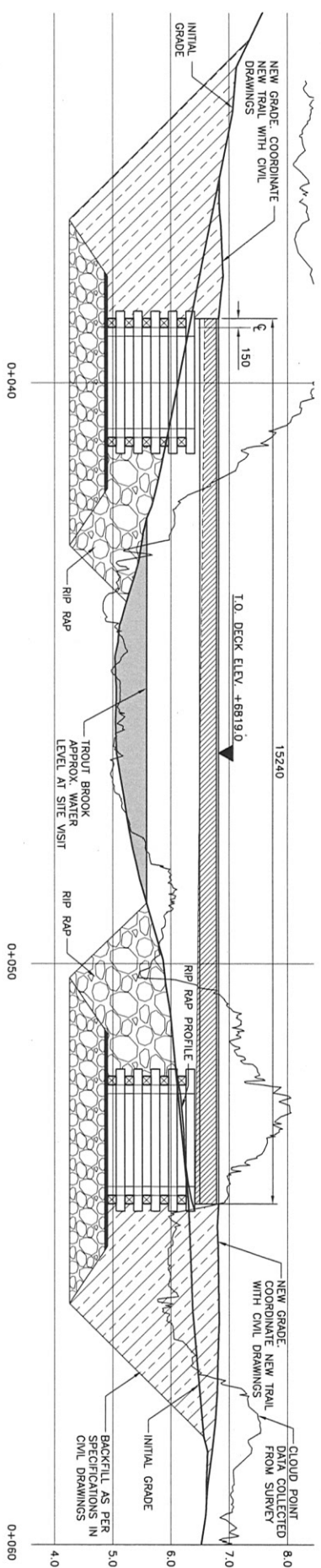
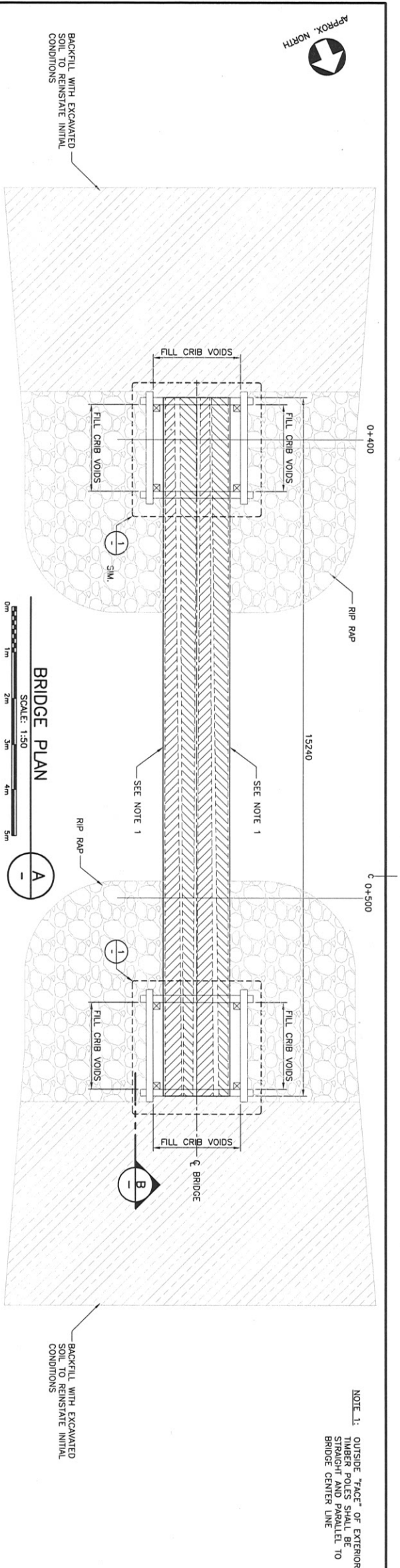
drawing
STRUCTURAL
ADDITIONAL
NOTES

designed	D. DEL CASTILLO BUIZA	conf
date	2019.07.08	
drawn	P. LARSEN	drawn
date	2019.07.08	
approved	N. GUY	approved
date	2019.07.08	

Project Manager
R.01092017

drawing no.
S107





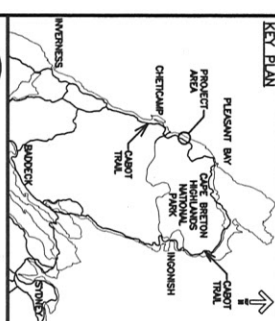
0	ISSUED FOR TENDER	JUL 01 2020
C	ISSUED FOR 99% REVIEW	APR 30 2020
B	ISSUED FOR 95% REVIEW	FEB 01 2020
Prep/drawing		date



drawing		drawn
STRUCTURAL BRIDGE PLANS AND SECTIONS		
designed	N.GUY	checked
date	2019.07.08.	
drawn	P.LARISEY	designed
date	2019.07.08.	
approved	N.GUY	approved
date	2019.07.08.	

Tender	Submission
PMOSC Project Manager	Administrateur de projets IPSCC
project number	no. du projet
R.01092017	

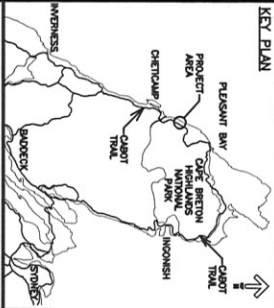
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NOTE:
-FOUNDATION PACKAGE ALREADY INSTALLED (N.I.C.)

-FOUNDATION PACKAGE ALREADY INSTALLED (N.I.C.)



PRIME CONSULTING LTD.
 102 - 40 HIGHFIELD PARK DRIVE
 DARTMOUTH, NS B3A 0A3
 STANTEC NO. 133348246
 ARCHITECT
STANTEC ARCHITECTURE LTD.
 102 - 40 HIGHFIELD PARK DRIVE
 DARTMOUTH, NS B3A 0A3

NOTES
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0	ISSUED FOR TENDER	JUL 01 2020
C	ISSUED FOR 99% REVIEW	FEB 03 2020
B	ISSUED FOR 95% REVIEW	FEB 07 2020

PARKS CANADA
 TROUT BROOK
 CAMPGROUND -
 BUILDING PACKAGE
 PHASE 2

STRUCTURAL
 BRIDGE
 SECTIONS
 AND DETAILS

designed	N.GUY	check
date	2019.07.08.	
drawn	P.LARSEN	assist
date	2019.07.08.	
approved	N.GUY	approval
date	2019.07.08.	

Project Manager: *Administrateur de projets* PSCC
 Project number: **R.01092017**
 drawing no. **S109**

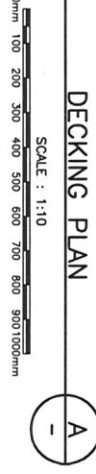
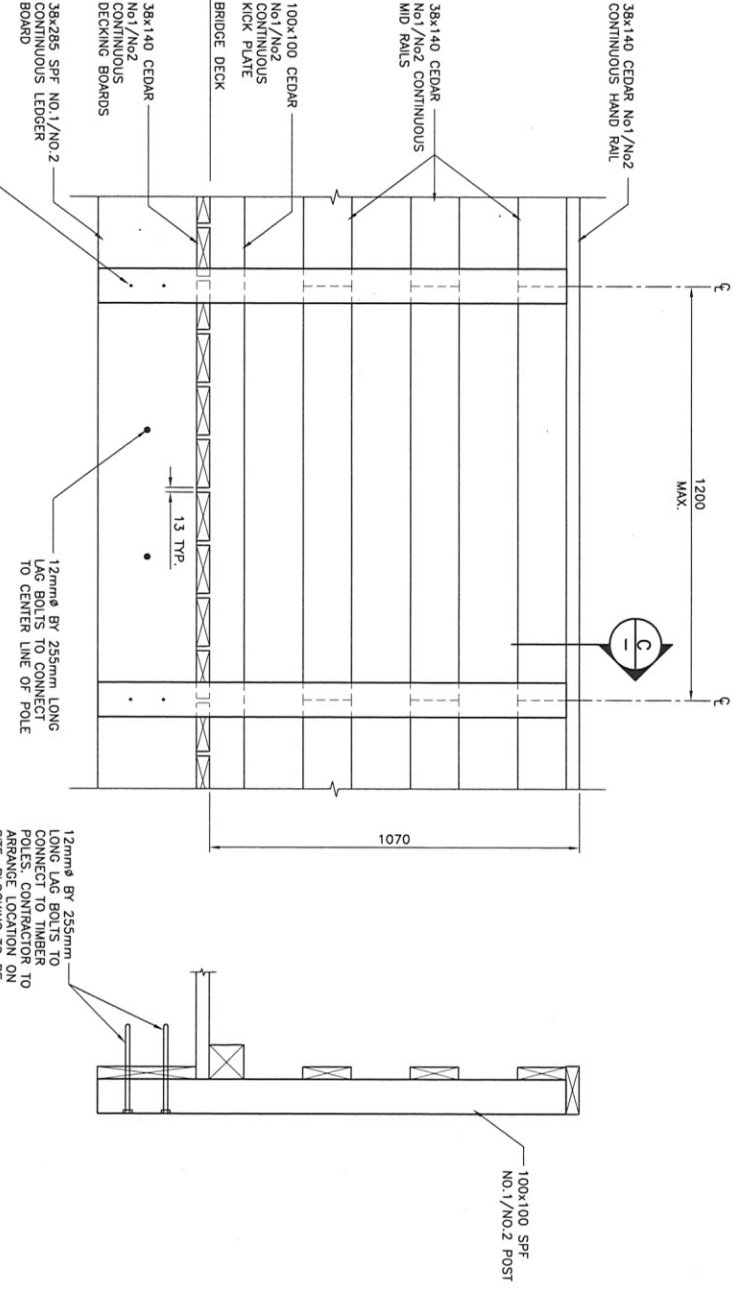


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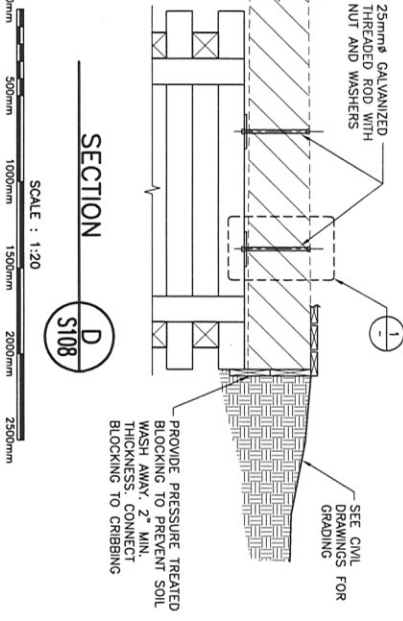
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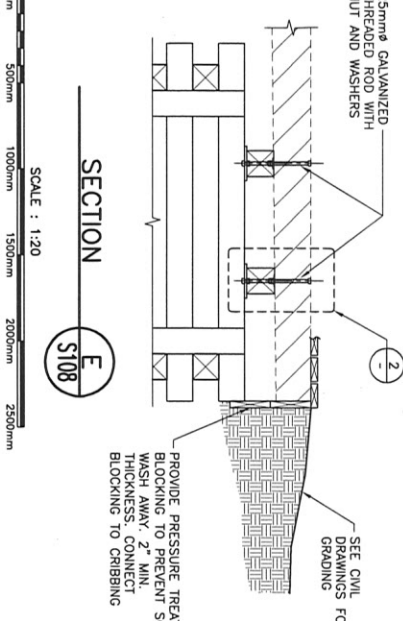
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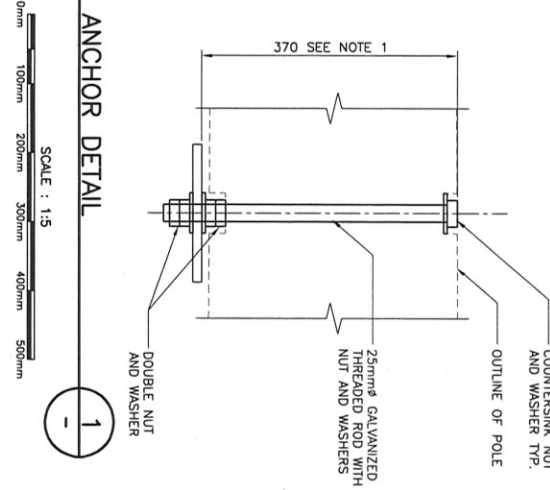
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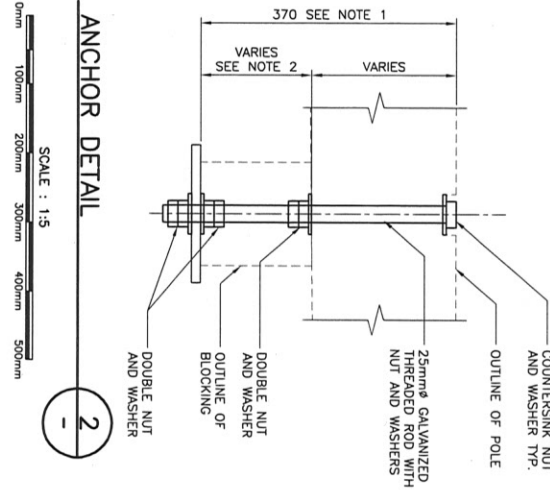
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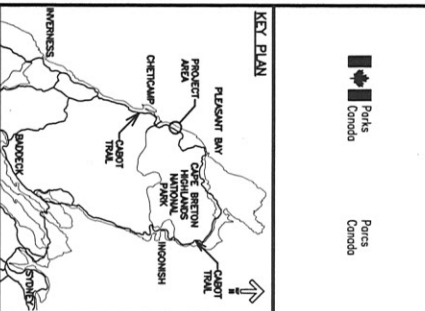
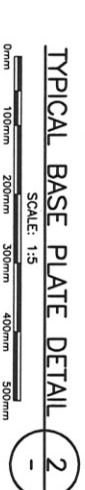
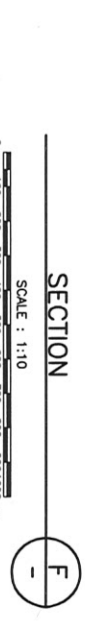
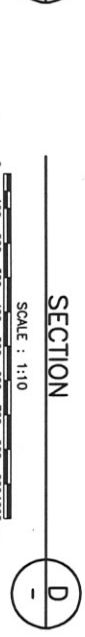
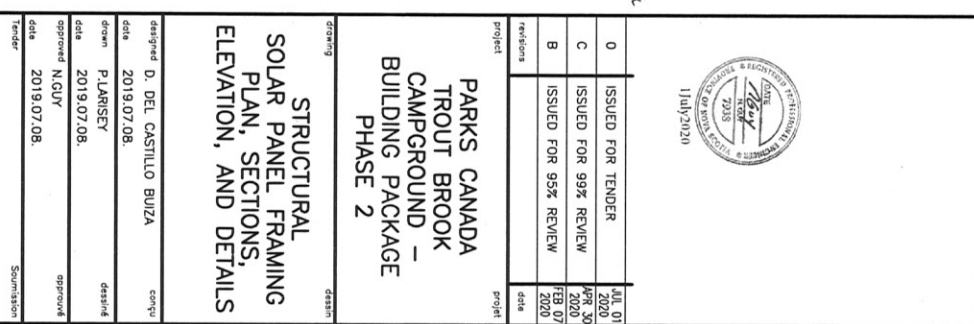
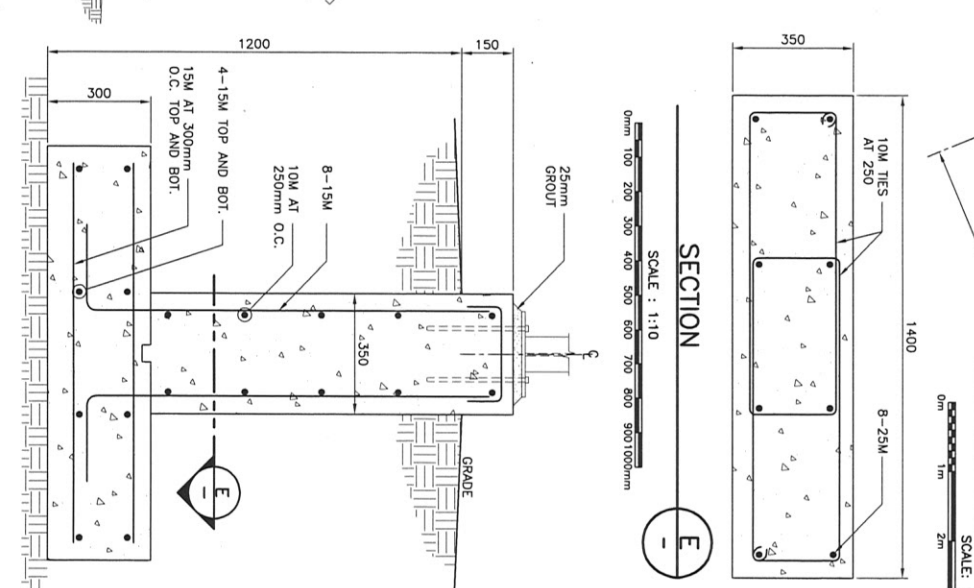
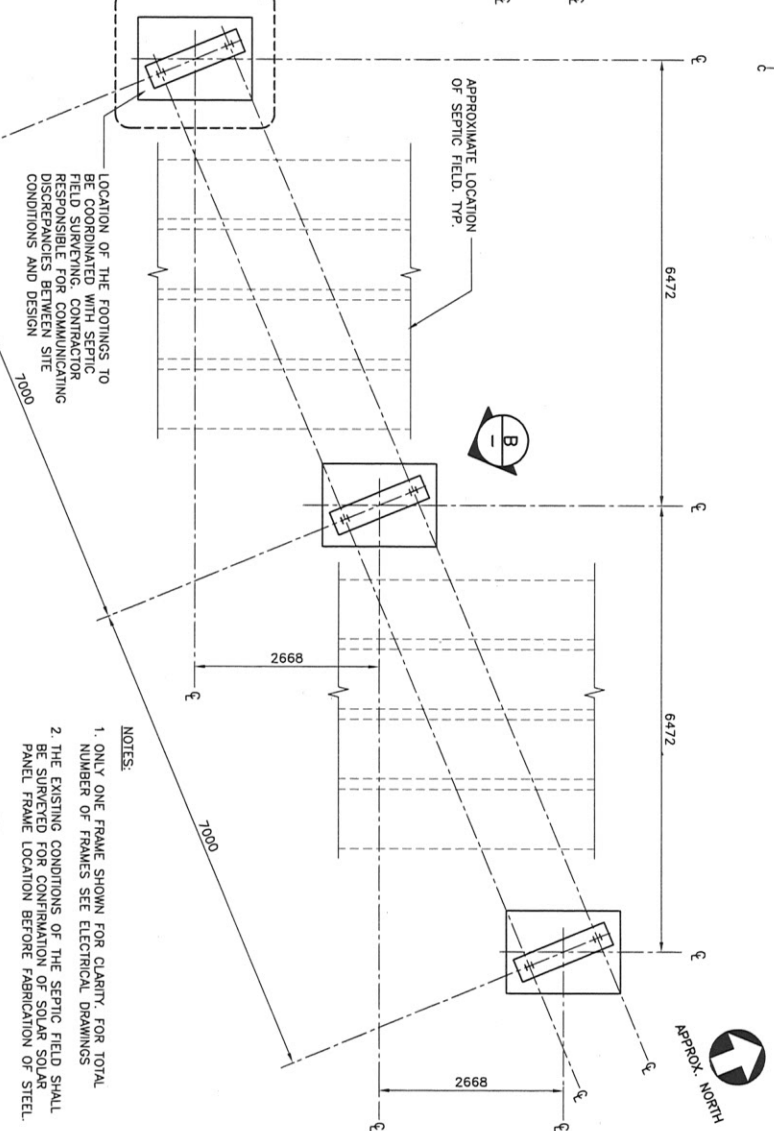
SCALE : 1:5

0mm 100mm 200mm 300mm 400mm 500mm



SCALE : 1:5

0mm 100mm 200mm 300mm 400mm 500mm



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0	ISSUED FOR TENDER	JUL 01 2020
C	ISSUED FOR 90% REVIEW	APR 30 2020
B	ISSUED FOR 95% REVIEW	FEB 07 2020
Ref: 6/2019		date

project

**PARKS CANADA
TROUT BROOK
CAMPGROUND –
BUILDING PACKAGE
PHASE 2**

STRUCTURAL
SOLAR PANEL FRAMING
PLAN, SECTIONS,
ELEVATION, AND DETAILS

designed	D. DEL CASTILLO BUIZA	congru
date	2019.07.08.	
drawn	P. LARISEY	desarrolló
date	2019.07.08.	
approved	N. GUY	aprobó
date	2019.07.08.	
Tender		Submission

PMSC Project Manager	Administrateur de projets IPSCC
project number	no. du projet
R.01092017	
drawing no.	no. du dessin
S110	

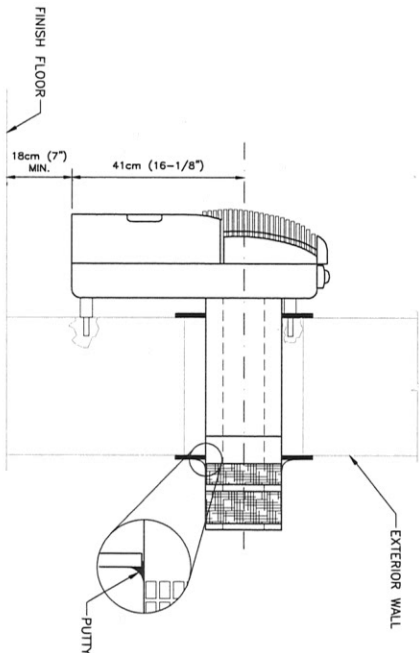
NOTES :

1. SH-1 LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO DETERMINE SUITABLE LOCATION ON SITE.
2. INSTALL SH-1 AS PER MANUFACTURERS' WRITTEN INSTRUCTIONS.
3. CONTRACTOR TO REMOVE EXISTING DIESEL GENERATOR AND PLACE IN LOCATION APPROVED BY PARKS REP.

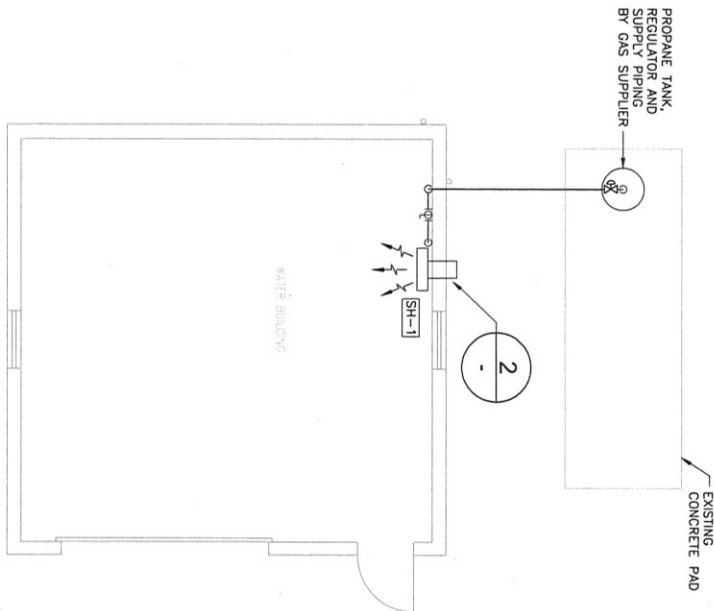
LEGEND :

- SH-1 PROPRANE SPACE HEATER
- SHUT-OFF VALVE
- PROPRANE GAS PIPING

SPACE HEATER SCHEDULE				
TAG	QUANTITY	OUTPUT (BTUH)	FUEL	MANUFACTURER MODEL
SH-1	1	11 000	PROPRANE	MARTIN MDV12P

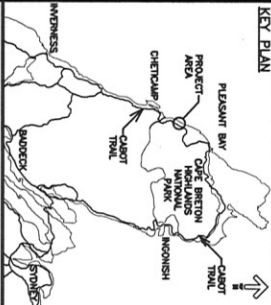


1 WATER BUILDING 'C' HEATING PLAN



2 SH-1 SPACE HEATER INSTALLATION DETAIL

SCALE: N.T.S.



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DRAWINGS REFLECT AS-BUILT UNDERGROUND CONSTRUCTION AS APPROVED BY THE FEDERAL GOVERNMENT AUTHORITY HAVING JURISDICTION.



no.	description	date
0	ISSUED FOR TENDER	JULY/06
C	ISSUED FOR 99% REVIEW	APR/20
B	ISSUED FOR 95% REVIEW	DEC/07
A	ISSUED FOR 75% REVIEW	DEC/07

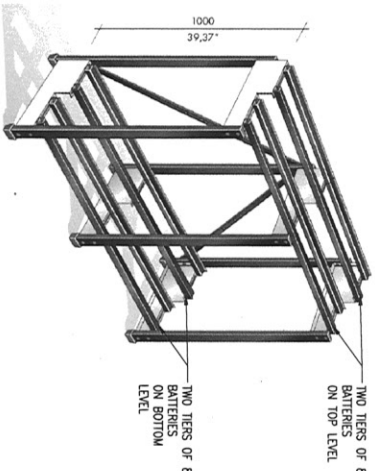
PARKS CANADA
TROUT BROOK
CAMPGROUND -
BUILDING PACKAGE
PHASE 2

HEATING
WATER BUILDING 'C'
FLOOR PLAN

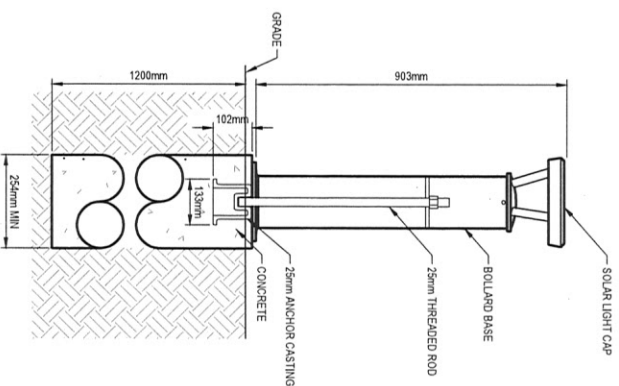
designed	JPL	copy
date	2019.07.08.	
drawn	JF	drawn
date	2019.07.08.	
approved	JPL	approved
date	2019.07.08.	

Project Manager
R.01092017

LUMINAIRE SCHEDULE								
GRAPHIC	TYPE	STANDARD OF ACCEPTANCE	DESCRIPTION	VOLTS	OUTPUT WATTS	SOURCE	MOUNTING	REMARKS
	B	STAND ALONE SOLAR LIGHTING BOLLARD ON INTEGRAL CHARGER AND LED LAMPS	GROUND MOUNTED PATH LIGHTING BOLLARD WITH FORWARD THROW ASYMMETRICAL DISTRIBUTION, 9' (2.7m) IN HEIGHT LIGHT DISTRIBUTION TO BE ASYMMETRICAL, FACING TOWARDS PATH. BOLLARD TO BE MOUNTED ON CONCRETE POST WITH 1 1/2" (38mm) DIA. HOLES. PROVIDE NECESSARY MOUNTING HARDWARE TO AFFIX BOLLARD TO BURIED CONCRETE POST.			LED	GROUND MOUNTED	INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS
	G	CEILING MOUNTED LED LUMINAIRE SUITABLE FOR CORROSIVE AND WET ENVIRONMENTS. PHILIPS DAY-BRITE VAPORLUM DW SERIES COOPER PHILIPS INTRAPRO TFS SERIES LITHONIA DIMZ	CEILING MOUNTED LED - PROVIDE ALL CLIPS AND FITTINGS AS REQUIRED	120	32	LED	CEILING SURFACE	INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS























NOTE:
THIS DETAIL IS TYPICAL FOR ALL NEW BATTERY RACKS. EACH RACK SHALL BE SIZED TO ACCOMMODATE TWO LEVELS OF TWIN TIERS OF 295mm L x 119mm W x 424mm H BATTERIES. REFER TO DRAWING E-102 FOR INSTALLATION NOTES AND LOCATIONS.



BOLLARD NOTE

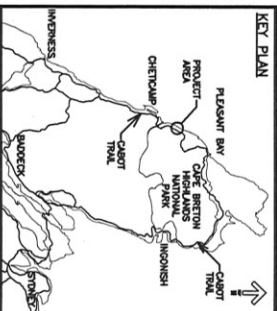
PROVIDE NEW SOLAR POWERED LIGHTING BOLLARDS ADJACENT TO NORTH EMERGENCY EGRESS STAIRS AND IN PARKING AREA ISLAND. INSTALL ON CONCRETE BASES AS PER MANUFACTURER'S INSTRUCTIONS. COORDINATE FINAL INSTALLED LOCATION BOLLARDS ON SITE WITH PARKS CANADA REPRESENTATIVE. REFER TO DETAIL 5 ON THIS DRAWING.

ELECTRICAL LEGEND

- | | |
|---|---|
|  | SOLAR POWERED LED BOLLARD LIGHT FIXTURE |
|  | CEILING MOUNTED LUMINAIRE C/W LED LAMPS INDICATED. C/W 2,1'x4' LED LAMPS |
|  | WALL MOUNTED P.I.R. OCCUPANCY SENSOR SWITCH. LOWERCASE LETTER 4-DIGIT ALPHANUMERIC TO LUMINAIRE CONTROLLED (TYPICAL) |
|  | NEMA 3-R WALL MOUNTED RECEPTACLE |
|  | SURFACE MOUNTED ELECTRICAL PANEL |
|  | FLUSH MOUNTED ELECTRICAL PANEL |
|  | DISCONNECT SWITCH |
|  | GENERATOR |
|  | GENERATOR LOAD BANK |
|  | EXISTING UNDERGROUND ELECTRICAL CONDUCTORS |
|  | NEW UNDERGROUND ELECTRICAL CONDUCTORS |
|  | ABBREVIATIONS |
|  | NOTE: NEW ELECTRICAL EQUIPMENT AND DEVICES ARE NOT TAGGED ON DRAWINGS FOR ALL OTHER EQUIPMENT IDENTIFIED ON PLANS REFER TO THE ABBREVIATIONS BELOW. |
|  | INDICATES EXISTING EQUIPMENT OR DEVICES TO REMAIN |
|  | INDICATES EXISTING EQUIPMENT OR DEVICES TO BE RELOCATED |
|  | INDICATES EXISTING EQUIPMENT OR DEVICES IN USE, COATED POSITION |
|  | INDICATES EXISTING EQUIPMENT OR DEVICES TO BE REMOVED |
|  | ELECTRICAL LINE WEIGHTS |
|  | LIGHT LINE INDICATES EXISTING ELECTRICAL |
|  | HEAVY LINE INDICATES NEW ELECTRICAL |

ELECTRICAL GENERAL NOTES

- [illegible]



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 STANTEC NO. 133348246

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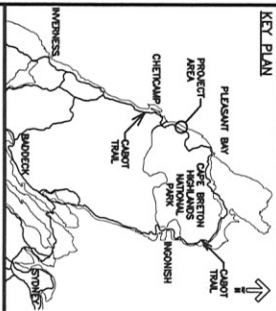


0	ISSUED FOR TENDER	07/01/2020
D	ISSUED FOR 99% REVIEW	04/30/2020
C	ISSUED FOR 95% REVIEW	02/07/2020
B	ISSUED FOR 75% REVIEW	11/30/2019
A	ISSUED FOR 50% REVIEW	09/13/2019
		date

**PARKS CANADA
TROUT BROOK
CAMPGROUND -
BUILDING PACKAGE
PHASE 2**

date	dist	conv
2019.07.08.	GS/AC	dist
2019.07.08.	dist	dist
2019.07.08.	SB	dist
2019.07.08.	dist	dist

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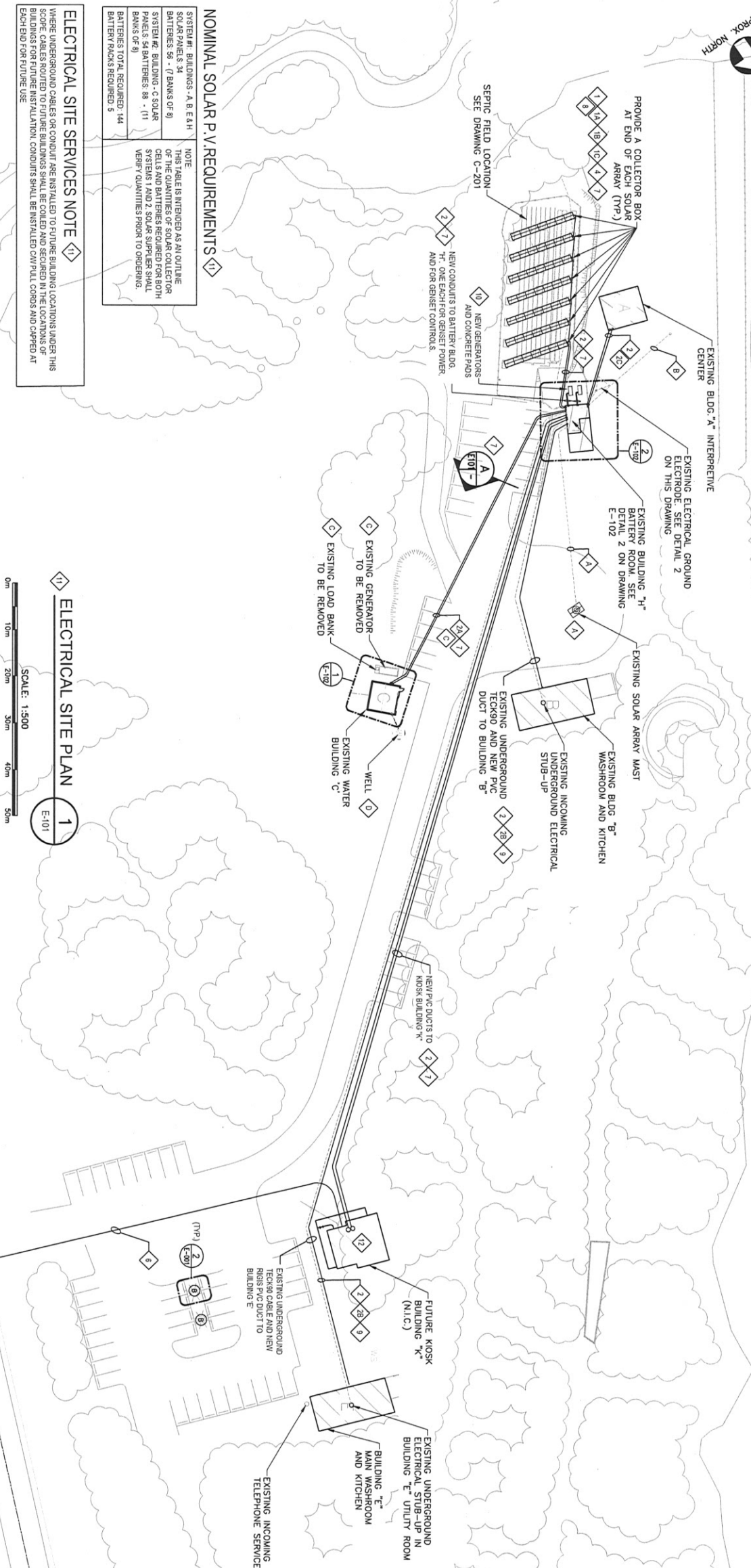


0	ISSUED FOR TENDER	07/07/2020
D	ISSUED FOR 90% REVIEW	04/20/2020
C	ISSUED FOR 95% REVIEW	02/07/2020
B	ISSUED FOR 75% REVIEW	11/03/2019
A	ISSUED FOR 50% REVIEW	09/13/2019

PARKS CANADA
TROUT BROOK
CAMPGROUND -
BUILDING PACKAGE
PHASE 2

ELECTRICAL SITE PLAN AND DETAILS

designed	checked
2019.07.08.	
drawn	designed
GS/AC	
date	approved
2019.07.08.	
project	approved
Project Manager	
project number	no. de projet
R.01092017	
drawing no.	no. du dessin
E-101	



SYSTEM#	BUILDINGS - A, B, E, H	NOTE
SOLAR PANELS 34	BATTERIES 58 - (7 BANKS OF 8)	THIS TABLE IS INTENDED AS AN OUTLINE OF THE QUANTITIES OF SOLAR COLLECTOR CELLS AND BATTERIES REQUIRED FOR BOTH SYSTEMS 1 AND 2. SOLAR SUPPLIER SHALL VERIFY QUANTITIES PRIOR TO ORDERING.
SYSTEM #2 - BUILDING - C SOLAR PANELS 54 BATTERIES 88 - (11 BANKS OF 8)		
BATTERIES TOTAL REQUIRED 144		
BATTERY RACKS REQUIRED 5		

ELECTRICAL SITE SERVICES NOTE
WHERE UNDERGROUND CABLES OR CONDUITS ARE INSTALLED TO FUTURE BUILDING LOCATIONS, THESE CABLES ROUTED TO FUTURE BUILDINGS SHALL BE COILED AND SECURED IN THE LOCATIONS OF BUILDINGS FOR FUTURE INSTALLATION. CONDUITS SHALL BE INSTALLED CIVIL PULL CORDS AND CAPED AT EACH END FOR FUTURE USE.

ELECTRICAL DEMOLITION KEY NOTES

- REMOVE EXISTING UNDERGROUND CONDUIT FROM EXISTING SOLAR MAST CONCRETE PAD BACK TO BUILDING 'H' AND TURN OVER TO OWNER.
- EXISTING UNDERGROUND CONDUITS FROM BUILDING 'H' TO BUILDING 'A' TO BE REMOVED AND REPAIRED. REFER TO DRAWING E-102 FOR E-104, TURN EXISTING CONDUITS OVER TO OWNER.
- DISMANTLE AND REMOVE EXISTING GENERATOR, LOAD BANK, AND ALL ASSOCIATED FEEDERS AND FITTINGS. RELOCATE GENERATOR AND LOADBANK TO CHEQUAMUNG CAMP SITE. REFER TO DRAWING E-102 FOR DEMOLITION NOTES AND KEY NOTE #1 IN CONSTRUCTION KEY NOTES ON THIS DRAWING FOR REPLACEMENT.
- DISCONNECT GROUND FROM PANEL, P.C. AND REMOVE NEUTRAL BONDING SCREW, DISMANTLE AND REMOVE EXISTING GROUNDING ELECTRODE AT WATER BUILDING.

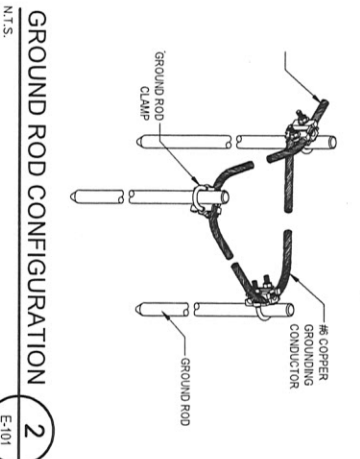
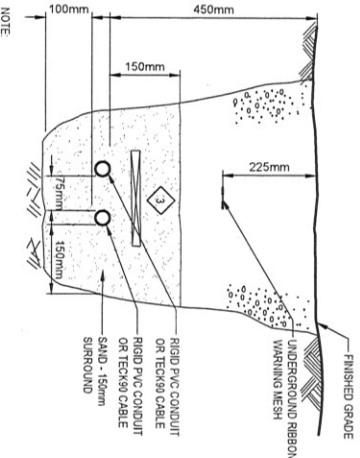
ELECTRICAL CONSTRUCTION KEY NOTES

- PROVIDE AND INSTALL SOLAR OF INVERTERS, BATTERIES, SOLAR PANELS AND ELECTRICAL DISTRIBUTION PANELS WITHIN EXISTING BATTERY BUILDING FOR NEW WATER BUILDING SERVICE. SYSTEM 2, COORDINATE FINAL INSTALLED LOCATION ON SITE WITH CLIENT'S REPRESENTATIVE.
- NOTE: EXISTING SOLAR PANELS ON SITE ARE TO BE REUSED AND INSTALLED WITHIN THE NEW SOLAR ARRAY. THE QUANTITY OF THESE PANELS SHALL NOT BE INCLUDED IN THE COST OF NEW CONSTRUCTION.
- SOLAR PANEL RACK MANUFACTURER SHALL DESIGN SOLAR PANEL RACKING TO BE COMPATIBLE WITH MANUFACTURER TO HAVE PACKAGING OF FOUR SOLAR PANELS PER BACK SECTION. PANELS SHALL BE ARRANGED IN TERS WITH TWO BOTTOM PANELS INSTALLED HORIZONTALLY ALONG THEIR TWO METER EDGE AND THE TWO TOP PANELS ARRANGED IN THE SAME MANNER. EACH COMPLETE SOLAR PANEL ARRAY (ROW) SHALL CONTAIN A TOTAL OF FOURTEEN PANELS. REFER TO DETAILS ONE-E-103 DRAWING.
- REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FOOTING INFORMATION FOR INSTALLATION OF PANEL RACKS COORDINATE WITH STRUCTURAL FOOTINGS FOR RACKS AND FENCING AT SOLAR AREAS AND GENERATORS.

ELECTRICAL CONSTRUCTION KEY NOTES

- SOLAR PANELS FOR SYSTEM 1 AND SYSTEM 2 SHALL BE INSTALLED AND WIRING AS SEPARATE INDEPENDENT SYSTEMS. BOTH SYSTEMS MAY SHARE THE SAME MOUNTING RACKS FOR INSTALLATION. REFER TO DETAILS ON DRAWING E-103 FOR SYSTEM ARRANGEMENT.
- PROVIDE AND INSTALL CONDUITS AND CABLES CONDUITS AS INDICATED IN PRELIMINARY SECTION 'A' ON THIS DRAWING. SPACE CABLES CONDUITS AS PER TABLE 3 ONE-E-104 AND SINGLE LINE DIAGRAM DETAIL 1 & 2 FOR SYSTEM 2 ON OF CONTAINING THE QUANTITY OF CABLES CONDUITS INDICATED WITH AN ADDITIONAL 15mm SPACE BETWEEN OUTERS CABLES CONDUITS AND TRUNK WALLS. SPACE CABLES CONDUITS OF DIFFERENT CIRCUITS AT A MINIMUM OF 75mm. REFER TO NEW INSTALLATION AND DEMOLITION TABLE 3 ONE-E-104.
- PROVIDE NEW RIBD PVC CONDUIT FOR NEW CONDUITS AND A SPACE RIBD PVC CONDUIT CIVIL PULL WIRE FROM BUILDING 'H' TO BUILDING 'C'. STUB UP INSIDE EACH BUILDING. CONNECT NEW FEEDER TO PANEL, P.C. AND CAP SPACE CONDUIT. REFER TO NEW INSTALLATION AND DEMOLITION TABLE 3 ONE-E-104.
- PROVIDE A RIBD PVC CONDUIT CIVIL PULL WIRE FROM BUILDING 'H' TO BUILDING 'B' AND 'E'. FOR FUTURE USE. ROUTE ADJACENT TO THE EXISTING BUILDING 'B' AND 'E' CONDUITS. STUB UP ON EXTERIOR OF BUILDING 'B' AND 'E'. REFER TO NEW INSTALLATION AND DEMOLITION TABLE 3 ONE-E-104.
- PROVIDE A RIBD PVC CONDUIT FOR NEW CONDUITS AND A SPACE RIBD PVC CONDUIT CIVIL PULL WIRE FROM BUILDING 'H' TO BUILDING 'A'. CONNECT NEW FEEDER TO PANEL, P.C. AND CAP SPACE CONDUIT AT EXTERIOR OF BUILDING 'A'. REFER TO NEW INSTALLATION AND DEMOLITION TABLE 3 ONE-E-104.
- PROVIDE AND INSTALL 3mm THICK TREATED PLANKING ABOVE CABLES CONDUITS IN AREAS OF TRAFFIC. WIDTH OF PLANKING SHALL ACCOMMODATE QUANTITY OF CABLES CONDUITS WITH A COVER OVERLAP OF 50mm ON EITHER SIDE OF CONDUIT EDGES. MULTIPLE PLANKS MAY BE UTILIZED TO ACHIEVE COVERAGE WITHIN BUREAU DEPTH OF CABLES CONDUITS SHALL REMAIN AT 45mm.
- SIZE AND PROVIDE CONDUCTOR TECK&90 CABLE FROM SOLAR COLLECTOR TO BUILDING 'H' AND BUILDING 'B'. REFER TO NEW INSTALLATION AND DEMOLITION TABLE 3 ONE-E-104.

ELECTRICAL SITE PLAN 1 E-101



MODEL SECTION - BURIED CONDUITS

N.T.S.



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CONSTRUCTION.

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