

NOTE:

1. DRAWINGS SHOW ROADWAY, PARKING LOT, AND PATHWAY CONSTRUCTION DETAILS THAT ARE NOT INCLUDED AS PART OF THIS CONTRACT. THESE DETAILS ARE DENOTED 'N.I.C.' AND ARE INCLUDED FOR INFORMATION ONLY, AS THEY ARE THE TRAVEL CORRIDORS THAT THE CONTRACTOR IS TO USE TO ACCESS THEIR CONSTRUCTION REQUIREMENTS UNDER THIS TENDER.

LEGEND

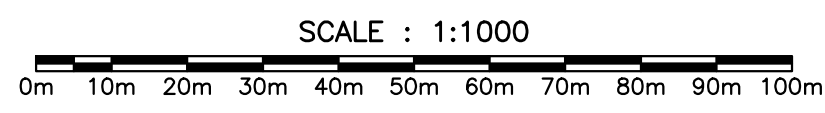
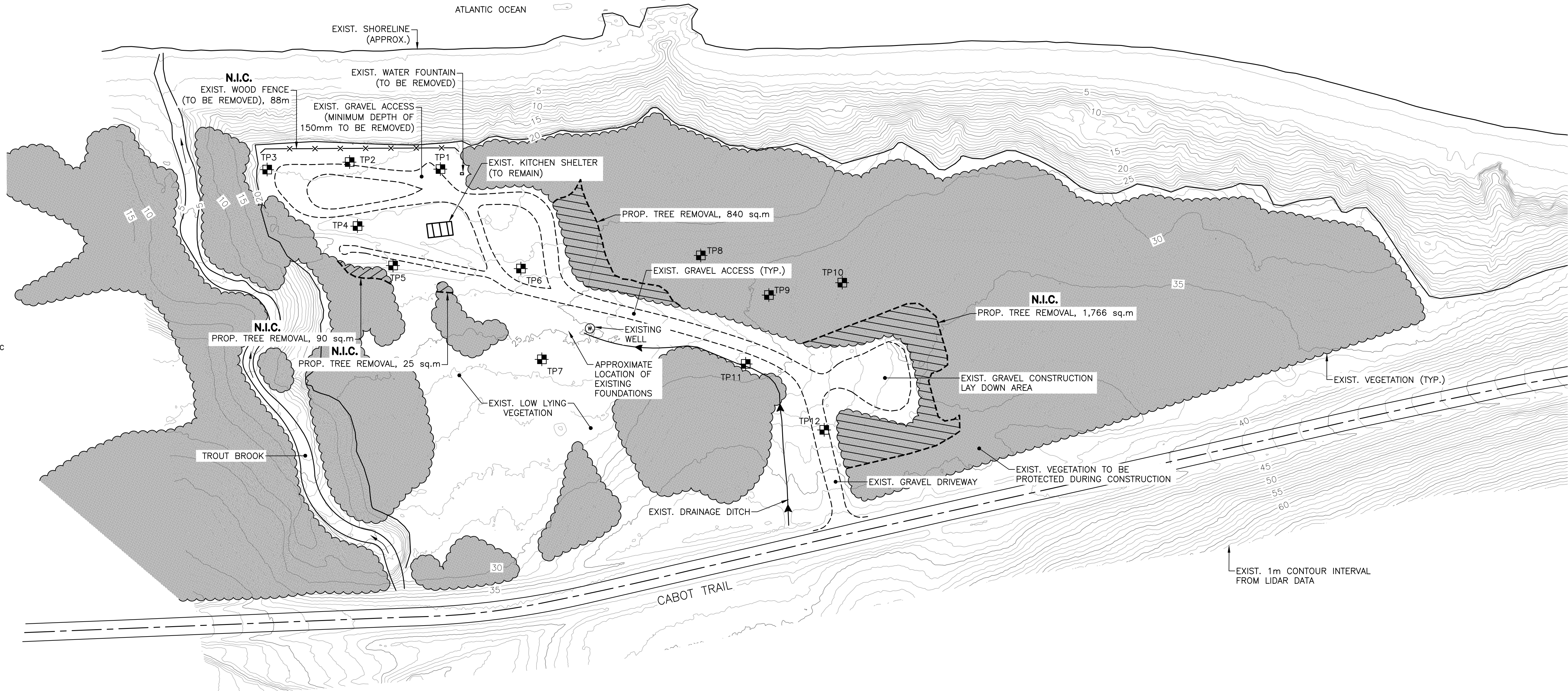
- HIGHWAY CENTERLINE
- - - EDGE OF GRAVEL
- x-x- FENCE LINE
- xx- MAJOR CONTOUR
- - - MINOR CONTOUR
- [Hatched Box] BUILDING OUTLINE
- [Cloud Box] VEGETATION
- [Dotted Box] VEGETATION TO BE REMOVED
- ← DRAINAGE DITCH



NOTE:
LIDAR DATA BASED ON NAD83 (CSRS) UTM ZONE 20.

Parcs Canada Parks Canada

KEY PLAN



3	RE-ISSUED FOR TENDER	05/17 2018
2	ISSUED FOR REVIEW	04/11 2018
1	ISSUED FOR TENDER	06/21 2017
revisions		date

**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITWORK TENDER**

**EXISTING CONDITIONS
AND
REMOVALS PLAN**

designed J.M.	conçu
date 2017.05.10	
drawn K.J.	dessiné
date 2017.05.10	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission

PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-101	

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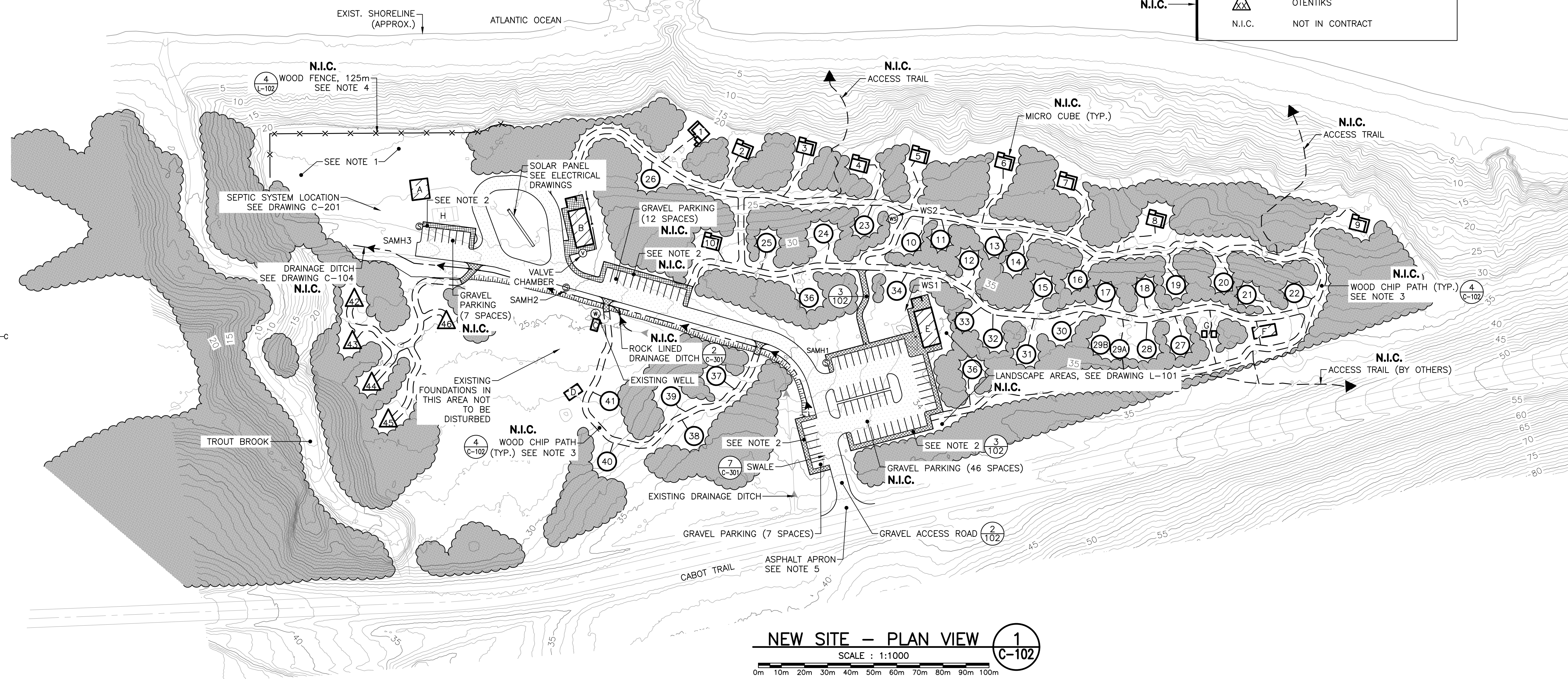
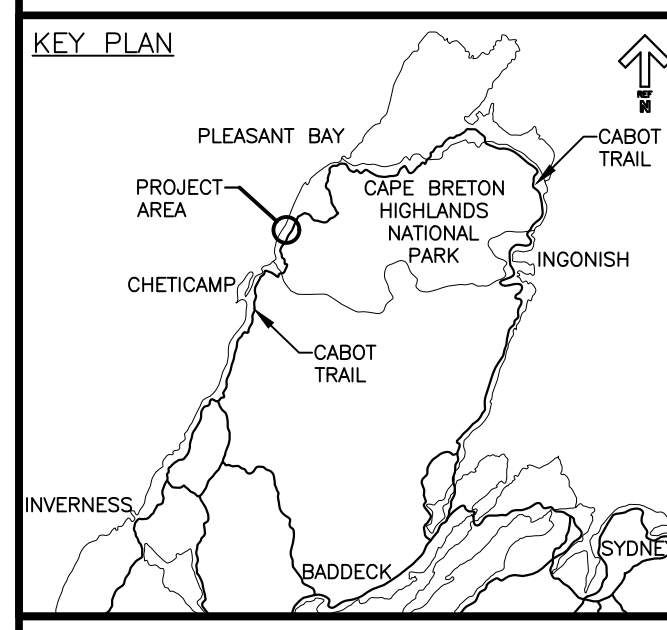
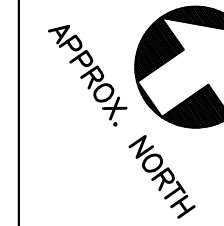
NOTES:

- ALL DISTURBED AND EXPOSED AREAS SHALL BE REINSTATED WITH MINIMUM 150mm TOPSOIL AND HYDROSEED. SEE DRAWING L-101.
- N.I.C.** INSTALL 2.0m WIDE TYPE 1 GRAVEL STRIP AT END OF PARKING STALLS. SEE DETAIL 3 ON THIS DRAWING.
- N.I.C.** ALL WOOD CHIP PATHWAYS AND CAMP SITE CONSTRUCTION WILL BE COMPLETED BY PARKS CANADA.
- N.I.C.** FINAL LOCATION OF FENCE TO BE COORDINATED AND APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
- ASPHALT APRON TO BE MAINTAINED OR REINSTATED AS PER DEPARTMENTAL REPRESENTATIVE.
- ALL DIMENSIONS INDICATED ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. PIPE SIZES INDICATED ARE IN MILLIMETERS. ALL ELEVATIONS ARE GEODETIC.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND SHALL COMPLY WITH THE PERMIT REQUIREMENTS AND CONDITIONS.
- DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION PROVIDED BY NATURAL RESOURCES CANADA. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE OF DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS.

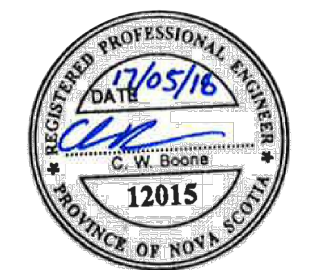
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
- ONCE CONSTRUCTION IS COMPLETE, ALL SURFACES SHALL HAVE POSITIVE DRAINAGE WITHOUT PONDING.
- MAINTAIN SITE IN TIDY CONDITION FREE FROM ACCUMULATION OF WASTE PRODUCTS AND DEBRIS. UPON OBTAINING 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.
- 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) MTM ZONE4 AND CANADIAN GEODETIC VERTICAL DATUM (GGVD) 2013.
- CONTRACTOR MUST TRAVEL ON ROADS AND PATHS AS MUCH AS POSSIBLE. ANY DEVIATION FROM THESE SURFACES MUST BE APPROVED BY DEPARTMENTAL REPRESENTATIVE AND FULLY REINSTATED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE DEPARTMENTAL REPRESENTATIVE.
- 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.

BUILDING DESCRIPTION LEGEND	
N.I.C.	1-10 NEW MICRO CUBES
N.I.C.	10-41 NEW CAMP SITES
N.I.C.	42-46 NEW OTENTIKS
N.I.C.	A NEW INTERPRETIVE CENTRE
N.I.C.	B NEW WASHROOM AND KITCHENETTE SHELTER
N.I.C.	C NEW WATER TREATMENT BUILDING
N.I.C.	D NEW SOLAR EQUIPMENT BUILDING
N.I.C.	E NEW WASHROOM AND KITCHENETTE SHELTER
N.I.C.	F NEW PICNIC SHELTER
N.I.C.	G NEW PIT PRIVY - 2 EA
N.I.C.	H EXISTING KITCHEN SHELTER

LEGEND	
(S)	WATER SPIGOT
(V)	VALVE CHAMBER
(W)	EXISTING WELL
(S)	SANITARY MANHOLE
(---)	WOOD CHIP PATH
(---)	WALKING PATH STRUCTURE
(---)	GRAVEL ROAD/PARKING STRUCTURE
(---)	BUILDING OUTLINE
(---)	VEGETATION TO REMAIN
(X)	MICRO CUBES
(XX)	CAMP SITES
(△)	OTENTIKS
N.I.C.	NOT IN CONTRACT



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



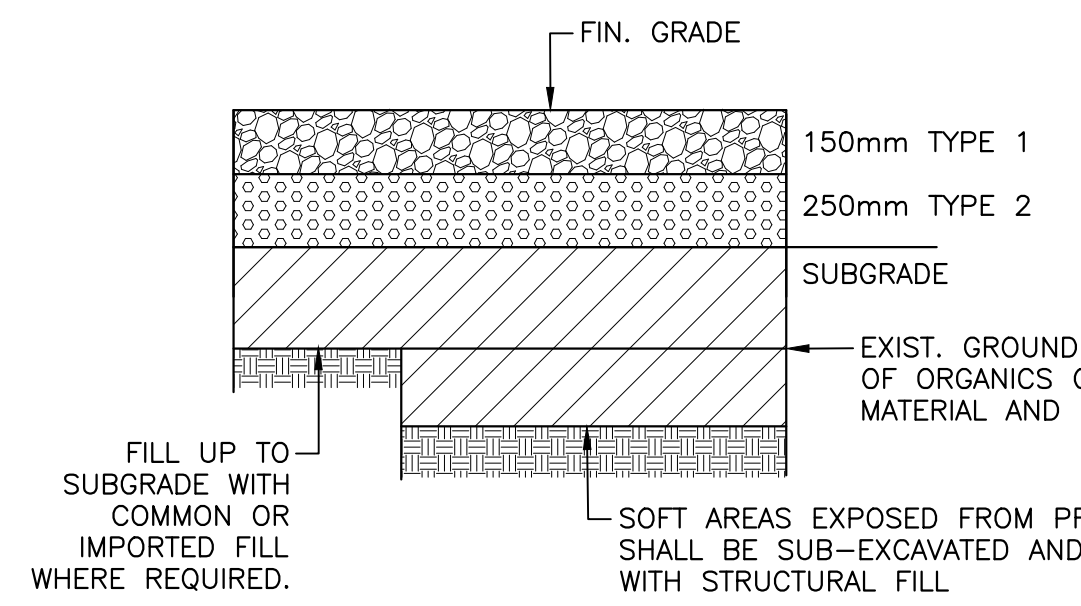
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2	ISSUED FOR REVIEW	04/11 2018
1	ISSUED FOR TENDER	06/21 2017
A	ISSUED FOR 99% REVIEW	04/25 2017
revisions		date
project		project

**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITEWORK TENDER**

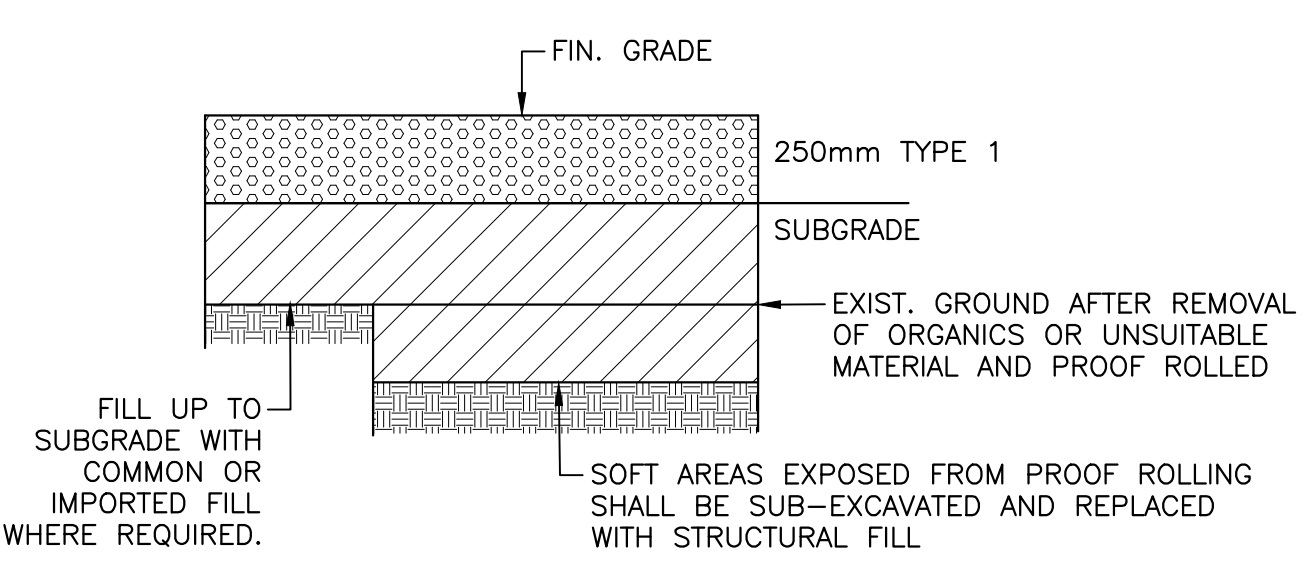
drawing desin

SITE PLAN

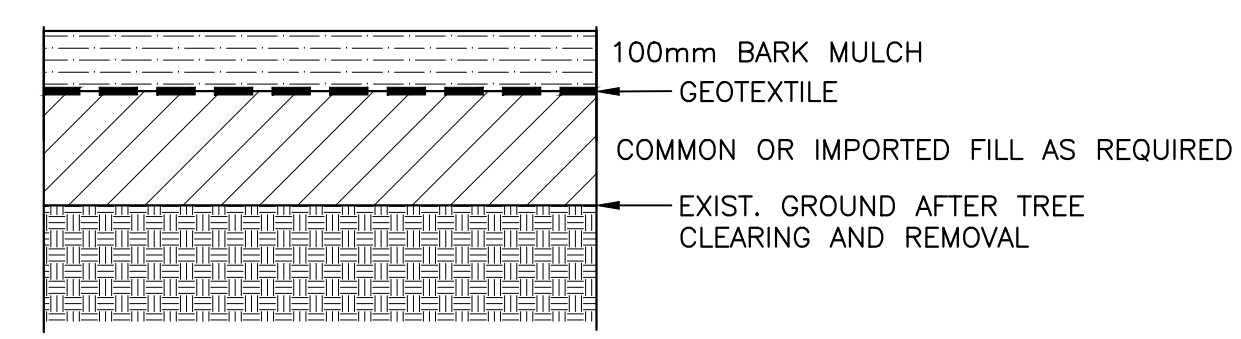
designed J.M.	conçu
date 2017.02.03	
drawn K.J.	dessiné
date 2017.02.03	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-102	



GRAVEL ROAD/PARKING STRUCTURE
NOT IN CONTRACT
2 C-102
C-103/C-104

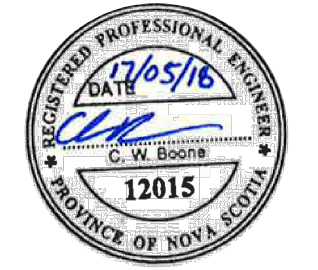
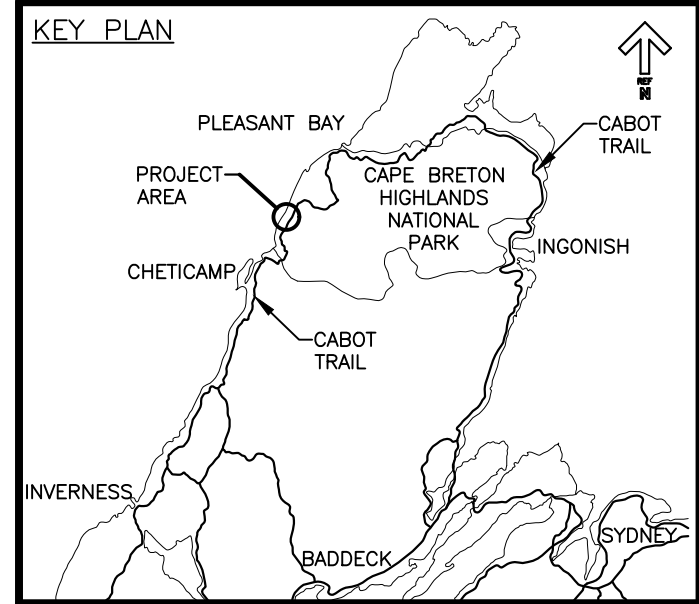


WALKING PATH STRUCTURE
NOT IN CONTRACT
3 C-102
C-103/C-104



WOOD CHIP PATH
NOT IN CONTRACT
4 C-102
C-103/C-104

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3	RE-ISSUED FOR TENDER	05/17 2018
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revisions		date

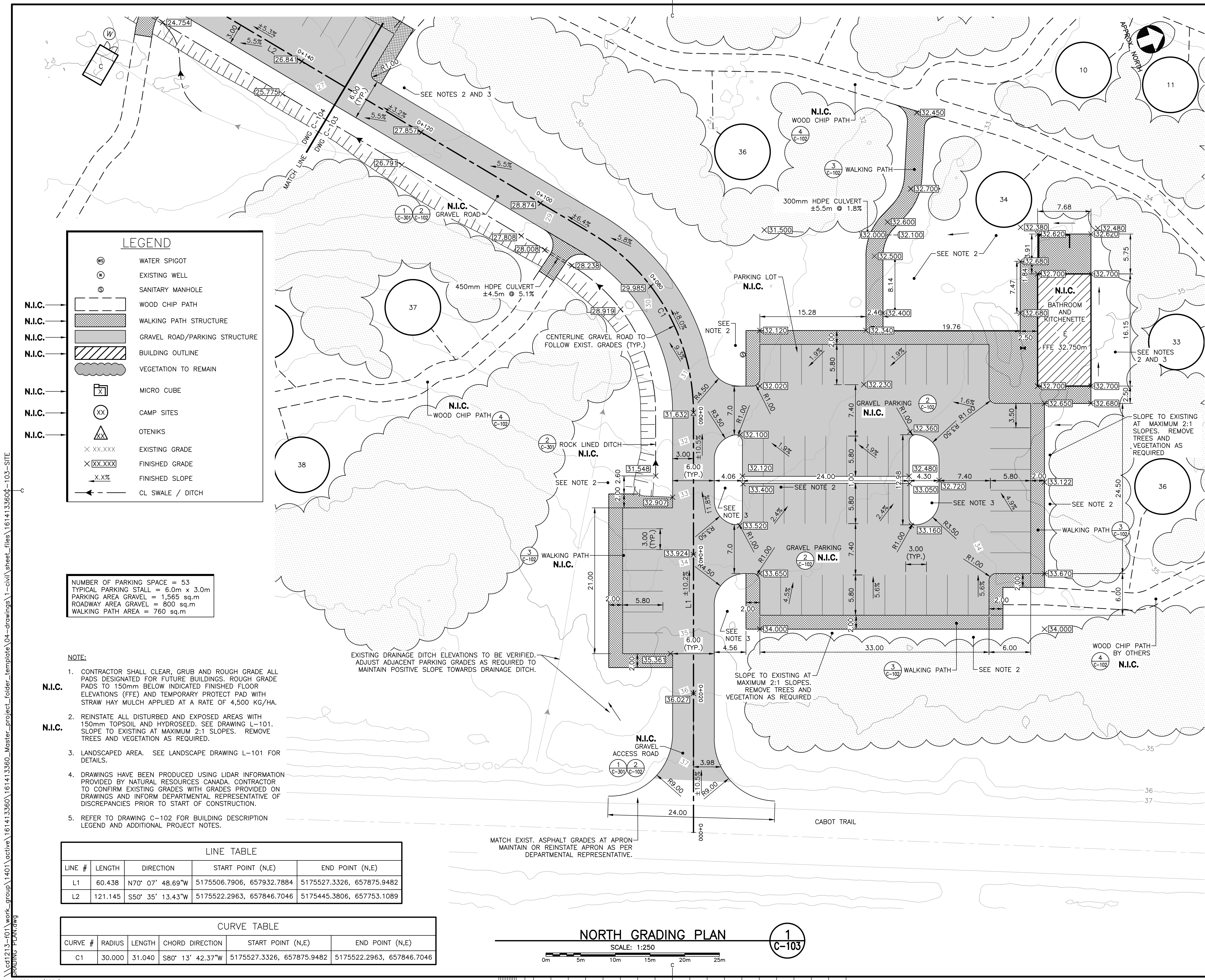
**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITEWORK TENDER**

drawing dessin

**SITE LAYOUT AND
GRADING PLAN
SHEET 1 OF 2**

designed J.M.	conçu
date 2017.05.25	
drawn K.J.	dessiné
date 2017.05.29	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission

PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-103	



LEGEND

- (WS) WATER SPIGOT
- (W) EXISTING WELL
- (S) SANITARY MANHOLE
- N.I.C. WOOD CHIP PATH
- N.I.C. WALKING PATH STRUCTURE
- N.I.C. GRAVEL ROAD/PARKING STRUCTURE
- N.I.C. BUILDING OUTLINE
- VEGETATION TO REMAIN
- (X) MICRO CUBE
- (XX) CAMP SITES
- (A) OTENIKS
- XX.XXX EXISTING GRADE
- XX.XXX FINISHED GRADE
- X.X% FINISHED SLOPE
- CL SWALE / DITCH

NUMBER OF PARKING SPACE = 53
 TYPICAL PARKING STALL = 6.0m x 3.0m
 PARKING AREA GRAVEL = 1,565 sq.m
 ROADWAY AREA GRAVEL = 800 sq.m
 WALKING PATH AREA = 760 sq.m

- NOTE:**
- CONTRACTOR SHALL CLEAR, GRUB AND ROUGH GRADE ALL PADS DESIGNATED FOR FUTURE BUILDINGS. ROUGH GRADE PADS TO 150mm BELOW INDICATED FINISHED FLOOR ELEVATIONS (FFE) AND TEMPORARY PROTECT PAD WITH STRAW HAY MULCH APPLIED AT A RATE OF 4,500 KG/HA.
 - REINSTATE ALL DISTURBED AND EXPOSED AREAS WITH 150mm TOPSOIL AND HYDROSEED. SEE DRAWING L-101. SLOPE TO EXISTING AT MAXIMUM 2:1 SLOPES. REMOVE TREES AND VEGETATION AS REQUIRED.
 - LANDSCAPED AREA. SEE LANDSCAPE DRAWING L-101 FOR DETAILS.
 - DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION PROVIDED BY NATURAL RESOURCES CANADA. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE OF DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
 - REFER TO DRAWING C-102 FOR BUILDING DESCRIPTION LEGEND AND ADDITIONAL PROJECT NOTES.

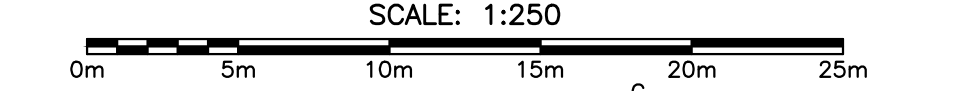
LINE TABLE

LINE #	LENGTH	DIRECTION	START POINT (N,E)	END POINT (N,E)
L1	60.438	N70° 07' 48.69"W	5175506.7906, 657932.7884	5175527.3326, 657875.9482
L2	121.145	S50° 35' 13.43"W	5175522.2963, 657846.7046	5175445.3806, 657753.1089

CURVE TABLE

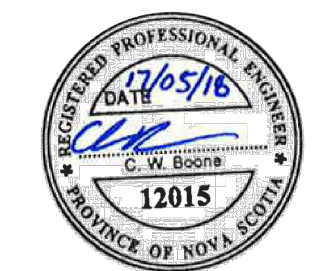
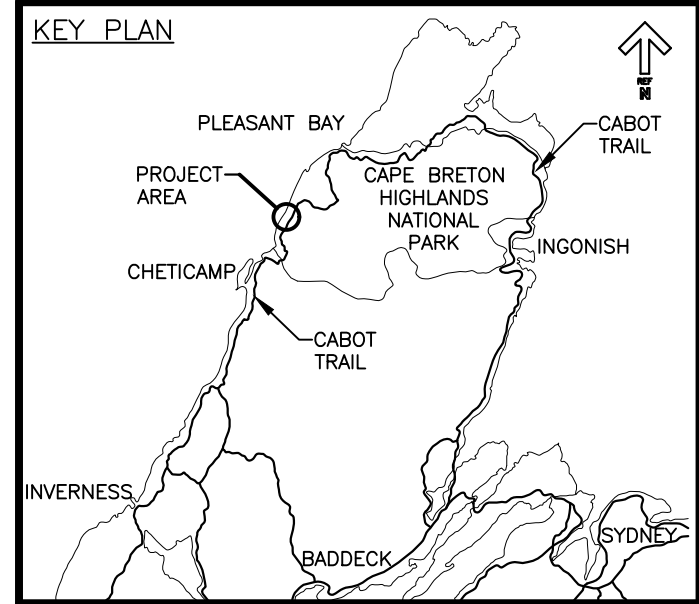
CURVE #	RADIUS	LENGTH	CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)
C1	30.000	31.040	S80° 13' 42.37"W	5175527.3326, 657875.9482	5175522.2963, 657846.7046

NORTH GRADING PLAN



1
C-103

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2	ISSUED FOR REVIEW	04/11 2018
1	ISSUED FOR TENDER	06/21 2017
revisions		date

**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITEWORK TENDER**

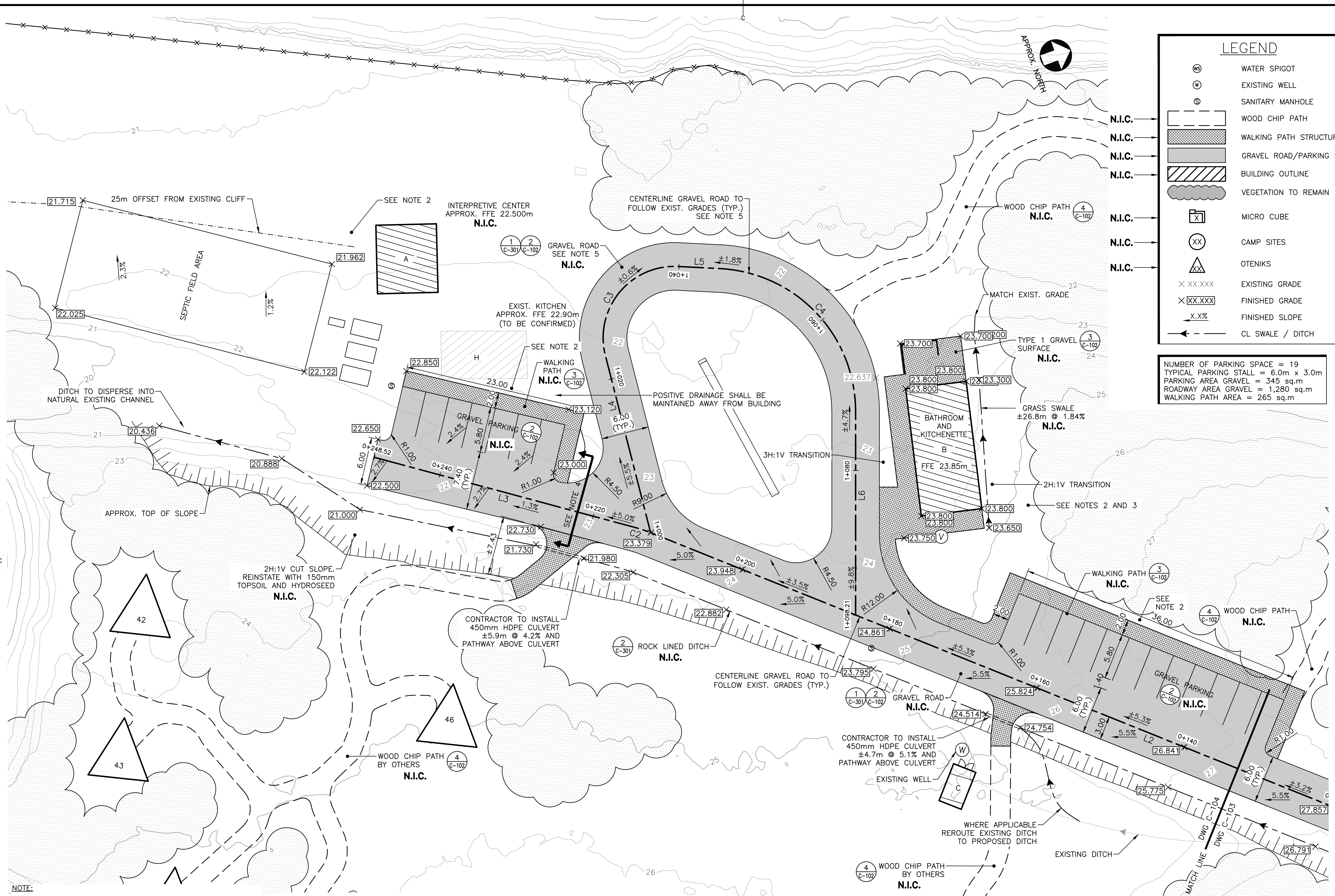
**SITE LAYOUT AND
GRADING PLAN
SHEET 2 OF 2**

designed	J.M.	conçu
date	2017.05.25	
drawn	K.J.	dessiné
date	2017.05.29	
approved	C.B.	approuvé
date	2018.04.11	
Tender		Soumission
PCA Project Manager	Administrateur de projets PCA	
project number		no. du projet
01092017		
drawing no.		no. du dessin
C-104		

LEGEND

- ⊕ WATER SPIGOT
- ⊙ EXISTING WELL
- ⊙ SANITARY MANHOLE
- ▭ WOOD CHIP PATH
- ▨ WALKING PATH STRUCTURE
- ▩ GRAVEL ROAD/PARKING STRUC'
- ▧ BUILDING OUTLINE
- ☁ VEGETATION TO REMAIN
- ⊠ MICRO CUBE
- ⊗ CAMP SITES
- △ OTENIKS
- × XX.XXX EXISTING GRADE
- × XX.XXX FINISHED GRADE
- X.X% FINISHED SLOPE
- CL SWALE / DITCH

NUMBER OF PARKING SPACE = 19
 TYPICAL PARKING STALL = 6.0m x 3.0m
 PARKING AREA GRAVEL = 345 sq.m
 ROADWAY AREA GRAVEL = 1,280 sq.m
 WALKING PATH AREA = 265 sq.m



- NOTE:**
- CONTRACTOR SHALL CLEAR, GRUB AND ROUGH GRADE ALL PADS DESIGNATED FOR FUTURE BUILDINGS. ROUGH GRADE PADS TO 150mm BELOW INDICATED FINISHED FLOOR ELEVATIONS (FFE) AND TEMPORARY PROTECT PAD WITH STRAW HAY MULCH APPLIED AT A RATE OF 4,500 KG/HA.
 - REINSTATE ALL DISTURBED AND EXPOSED AREAS WITH 150mm TOPSOIL AND HYDROSEED. SEE DRAWING L-101.
 - LANDSCAPED AREA. SEE LANDSCAPE DRAWING L-101 FOR DETAILS.
 - TYPICAL ROADWAY CROSS SECTION DOES NOT APPLY. USE GRADES PROVIDED.
 - LOOP ROAD SHALL BE SUPERELEVATED WITH THE NATURAL GRADE TO ENSURE POSITIVE DRAINAGE FROM INTERIOR GRASSED AREA. MAX. 4%.
 - DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION PROVIDED BY NATURAL RESOURCES CANADA. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF CONSTRUCTION OF DISCREPANCIES.
 - REFER TO DRAWING C-102 FOR BUILDING DESCRIPTION LEGEND AND ADDITIONAL PROJECT NOTES.

SOUTH - GRADING PLAN

SCALE: 1:250



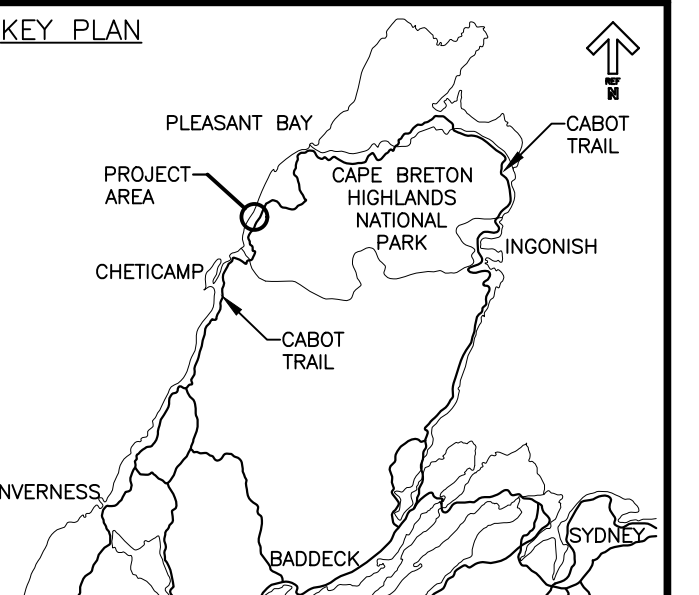
LINE TABLE

LINE #	LENGTH	DIRECTION	START POINT (N,E)	END POINT (N,E)
L2	121.145	S50° 35' 13.43"W	5175522.2963, 657846.7046	5175445.3806, 657753.1089
L3	34.110	S43° 45' 34.20"W	5175444.1662, 657751.7988	5175419.5304, 657728.2073
L4	23.052	N75° 38' 46.88"W	5175445.4872, 657753.2386	5175451.2019, 657730.9064
L5	5.276	N31° 37' 18.95"E	5175464.6398, 657725.4738	5175469.1326, 657728.2402
L6	25.682	S61° 18' 27.59"E	5175475.4848, 657752.2096	5175463.1549, 657774.7377

CURVE TABLE

CURVE #	RADIUS	LENGTH	CHORD DIRECTION	START POINT (N,E)	END POINT (N,E)
C2	15.000	1.787	S47° 10' 23.82"W	5175445.3806, 657753.1089	5175444.1662, 657751.7988
C3	9.000	16.850	N22° 00' 43.97"W	5175451.2019, 657730.9064	5175464.6398, 657725.4738
C4	18.000	27.354	N75° 09' 25.68"E	5175469.1326, 657728.2402	5175475.4848, 657752.2096

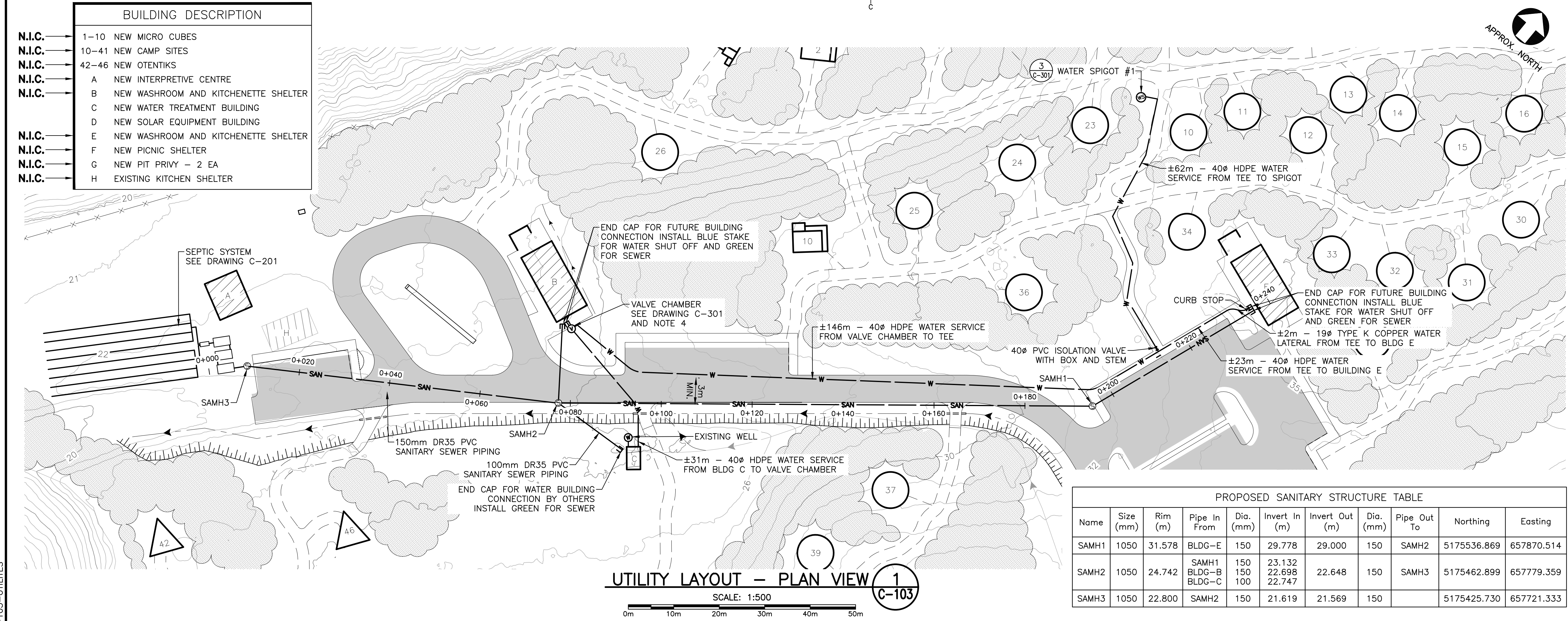
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 PWGSC A1 (2004)



revisions	date
3	ISSUED FOR TENDER 05/17 2018
2	ISSUED FOR REVIEW 04/11 2018
1	ISSUED FOR TENDER 06/21 2017

PARKS CANADA TROUT BROOK CAMPGROUND SITEWORK TENDER

drawing	dessin
UTILITIES PLAN	
designed J.M.	conçu
date 2017.05.10	
drawn K.J.	dessiné
date 2017.05.10	
approved C.B.	approuvé
date 2018.04.11	
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C-105	

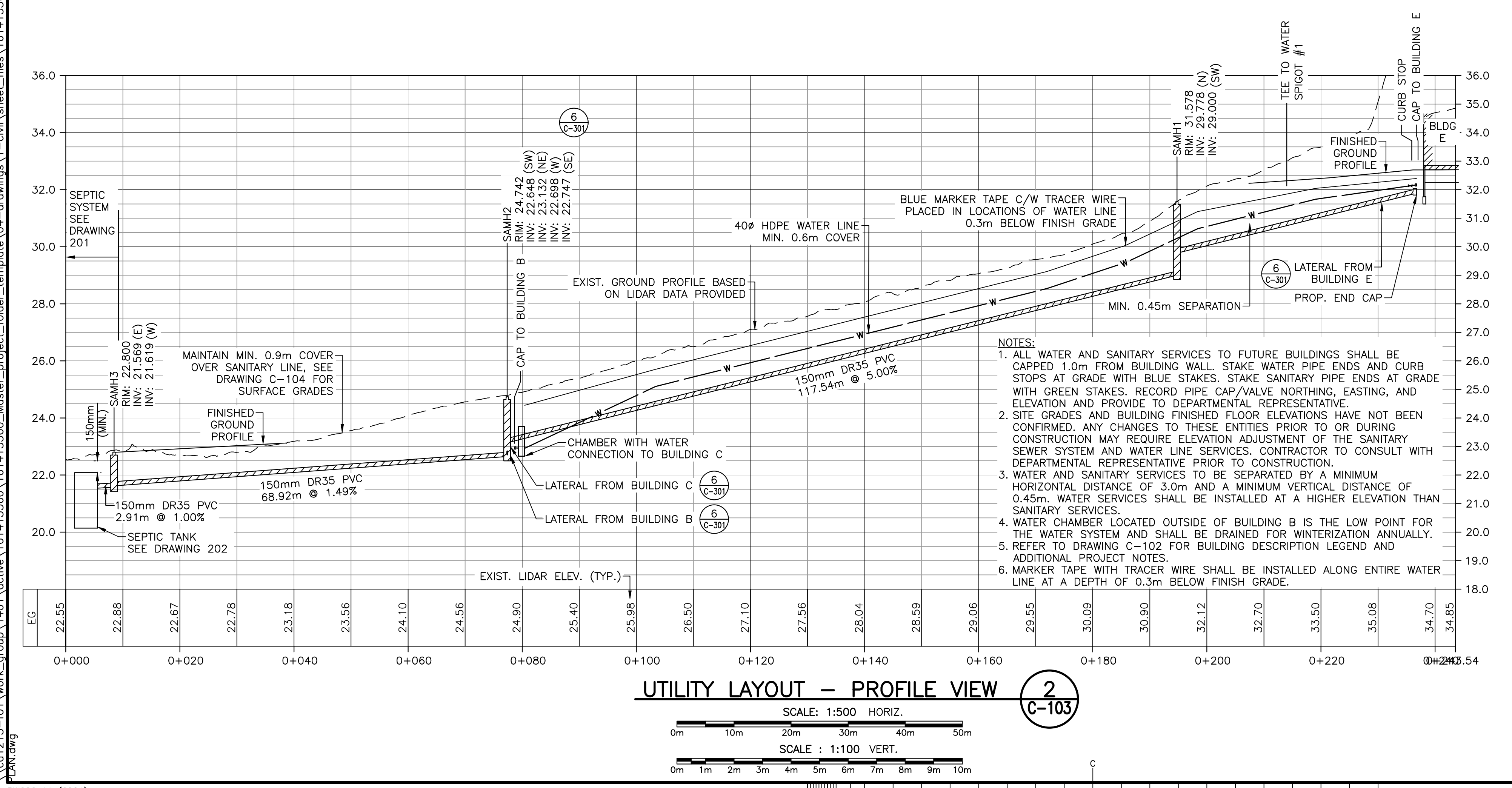


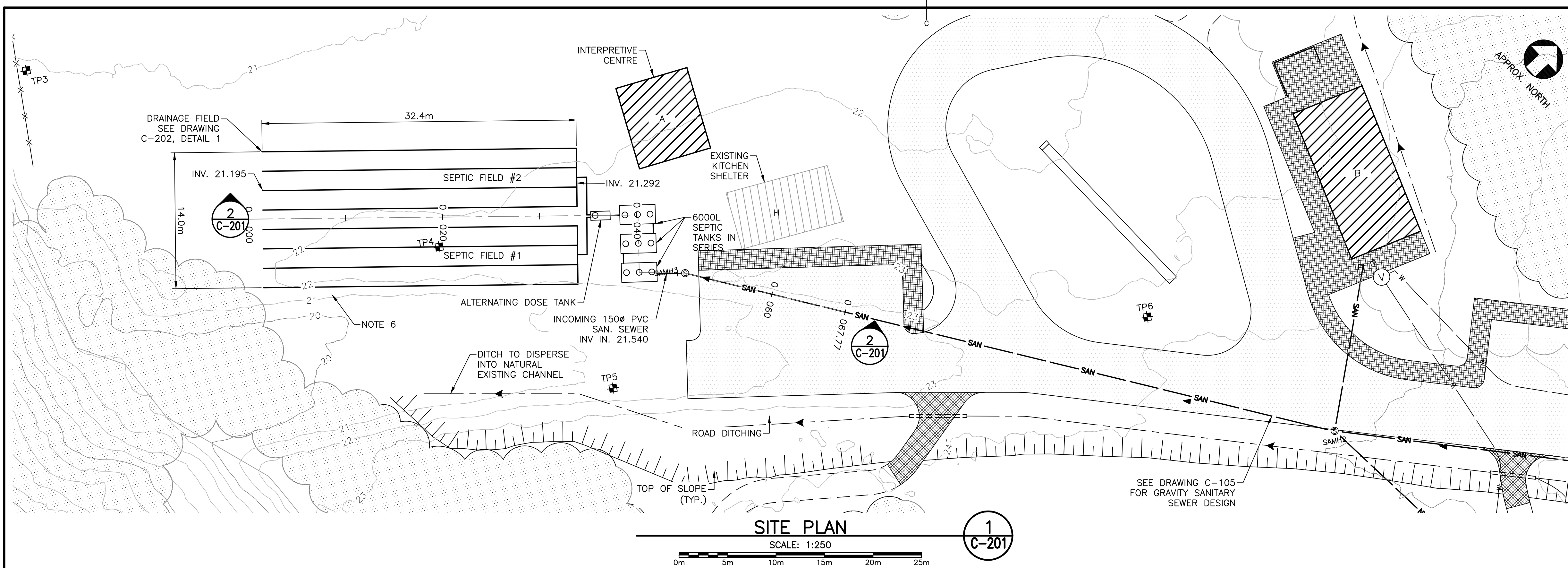
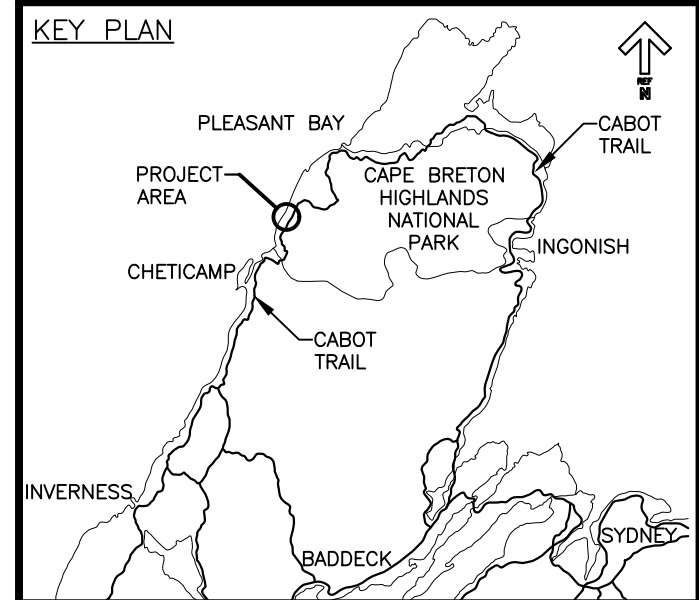
PROPOSED SANITARY STRUCTURE TABLE

Name	Size (mm)	Rim (m)	Pipe In From	Dia. (mm)	Invert In (m)	Invert Out (m)	Dia. (mm)	Pipe Out To	Northing	Easting
SAMH1	1050	31.578	BLDG-E	150	29.778	29.000	150	SAMH2	5175536.869	657870.514
SAMH2	1050	24.742	BLDG-B BLDG-C	150 150	23.132 22.698	22.648	150	SAMH3	5175462.899	657779.359
SAMH3	1050	22.800	SAMH2	150	21.619	21.569	150		5175425.730	657721.333

PROPOSED SANITARY PIPE TABLE

From	Invert (m)	To	Invert (m)	Size (mm)	Type	Length (m)	Slope
BLDG-B	22.950	SAMH2	22.698	150	PVC	17.357	1.45%
BLDG-C	23.400	SAMH2	22.747	100	PVC	17.409	3.75%
BLDG-E	31.850	SAMH1	29.778	150	PVC	41.444	5.00%
SAMH1	29.000	SAMH2	23.132	150	PVC	117.391	5.00%
SAMH2	22.648	SAMH3	21.619	150	PVC	68.909	1.49%
SAMH3	21.569		21.540	150	PVC	2.908	1.00%

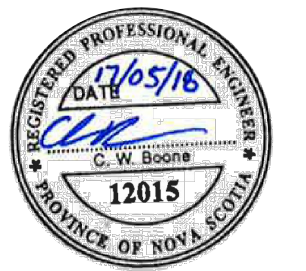




SITE PLAN
SCALE: 1:250
1
C-201

NOTES:

- FINAL GRADE ABOVE SEPTIC FIELD SHALL BE MAX 3% ACROSS CONTOURS, MAX 1% WITH CONTOURS. SEE DRAWING C-104 FOR GRADING PLAN.
- MAXIMUM DEPTH OF BOTTOM OF SEPTIC FIELD IS 1250mm BELOW EXISTING ELEVATION.
- DEPTH OF PERMEABLE SOIL BELOW BOTTOM OF SEPTIC FIELD SHALL BE A MINIMUM OF 600mm.
- SEPARATION DISTANCE FROM BOTTOM OF DRAINAGE FIELD TO BEDROCK/GROUNDWATER/POORLY DRAINING SOILS SHALL BE A MINIMUM OF 1000mm.
- SEPTIC FIELD SHALL BE BACKFILLED WITH NATIVE MATERIAL (SILTY GRAVEL WITH SAND) WITH A HYDRAULIC CONDUCTIVITY RANGING FROM 20 TO 80x10⁻⁶ m/s.
- FILL TO BE BLENDED BACK TO EXISTING ELEVATION DOWN SLOPE OF DRAINAGE FIELD.
- FINAL SITE GRADING AND FILL QUANTITIES IN THE AREA OF THE DRAINAGE FIELD TO BE DETERMINED BY CONTRACTOR.
- CONTRACTOR TO STAKE THE FINAL LOCATION OF ALL TANKS AND HAVE FINAL APPROVAL OF THESE STAKE LOCATIONS BY PARKS CANADA PRIOR TO EXCAVATING.
- FINAL SEPTIC TANK TO BE COMPLETED WITH EFFLUENT FILTER ON OUTLET.
- REFER TO DRAWING C-102 FOR BUILDING DESCRIPTION LEGEND AND ADDITIONAL PROJECT NOTES.
- BOULDERS OR COBBLES ENCOUNTERED DURING SEPTIC FIELD INSTALLATION SHALL BE REMOVED AND REPLACED WITH NATIVE SOIL MATERIAL.

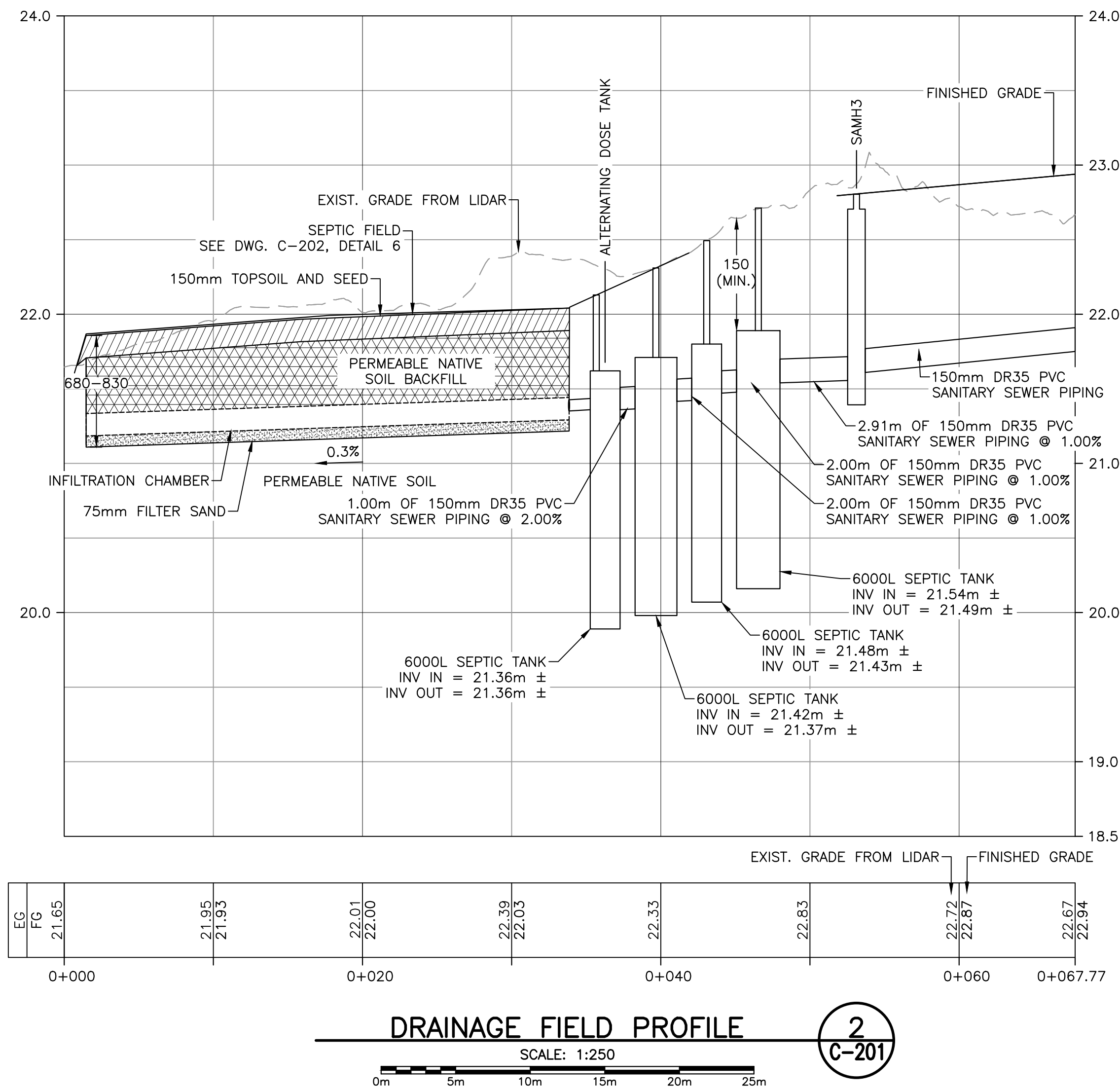


revisions	date
4	RE-ISSUED FOR TENDER 05/17/2018
3	ISSUED FOR REVIEW 04/11/2018
2	ISSUED FOR TENDER 06/21/2017
1	ISSUED FOR 99% REVIEW 04/25/2017

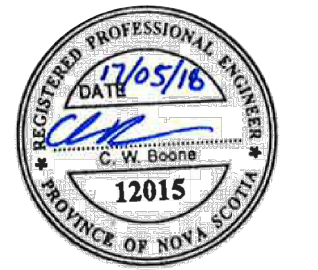
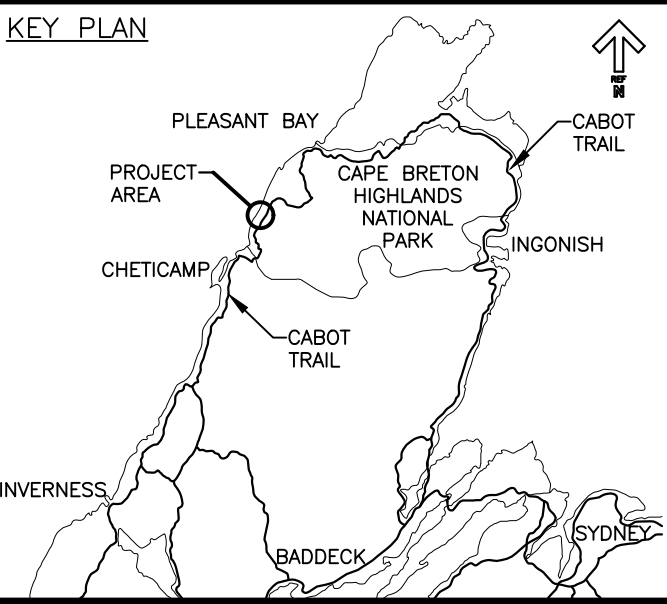
project
**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITEWORK TENDER**
dessin

drawing
**ON-SITE WASTEWATER
SEPTIC SYSTEM
PLAN AND PROFILE**
desin

designed J.M.	conçu
date 2017.04.25	
drawn K.J.	dessiné
date 2017.04.25	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-201	



DRAINAGE FIELD PROFILE
SCALE: 1:250
2
C-201

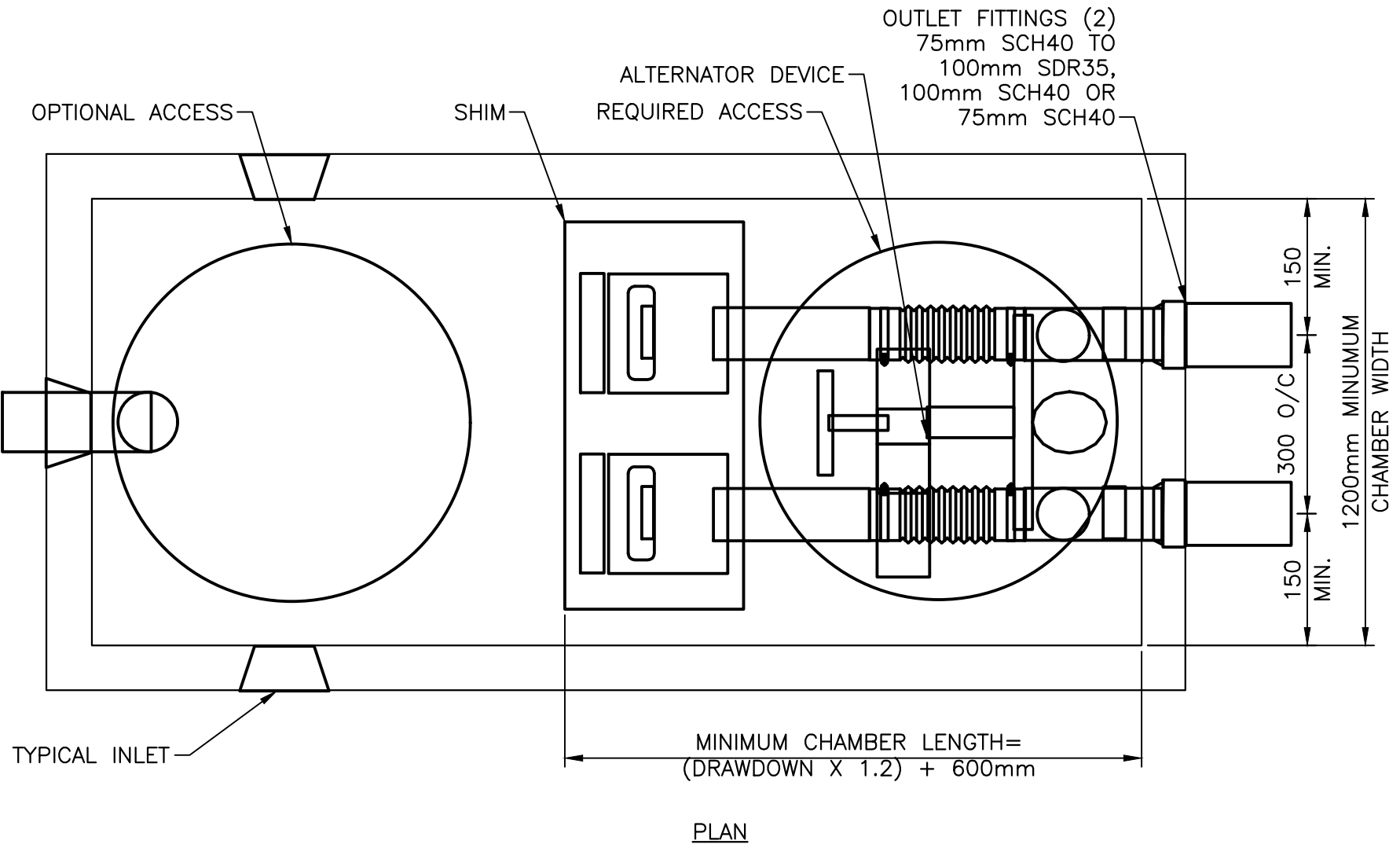
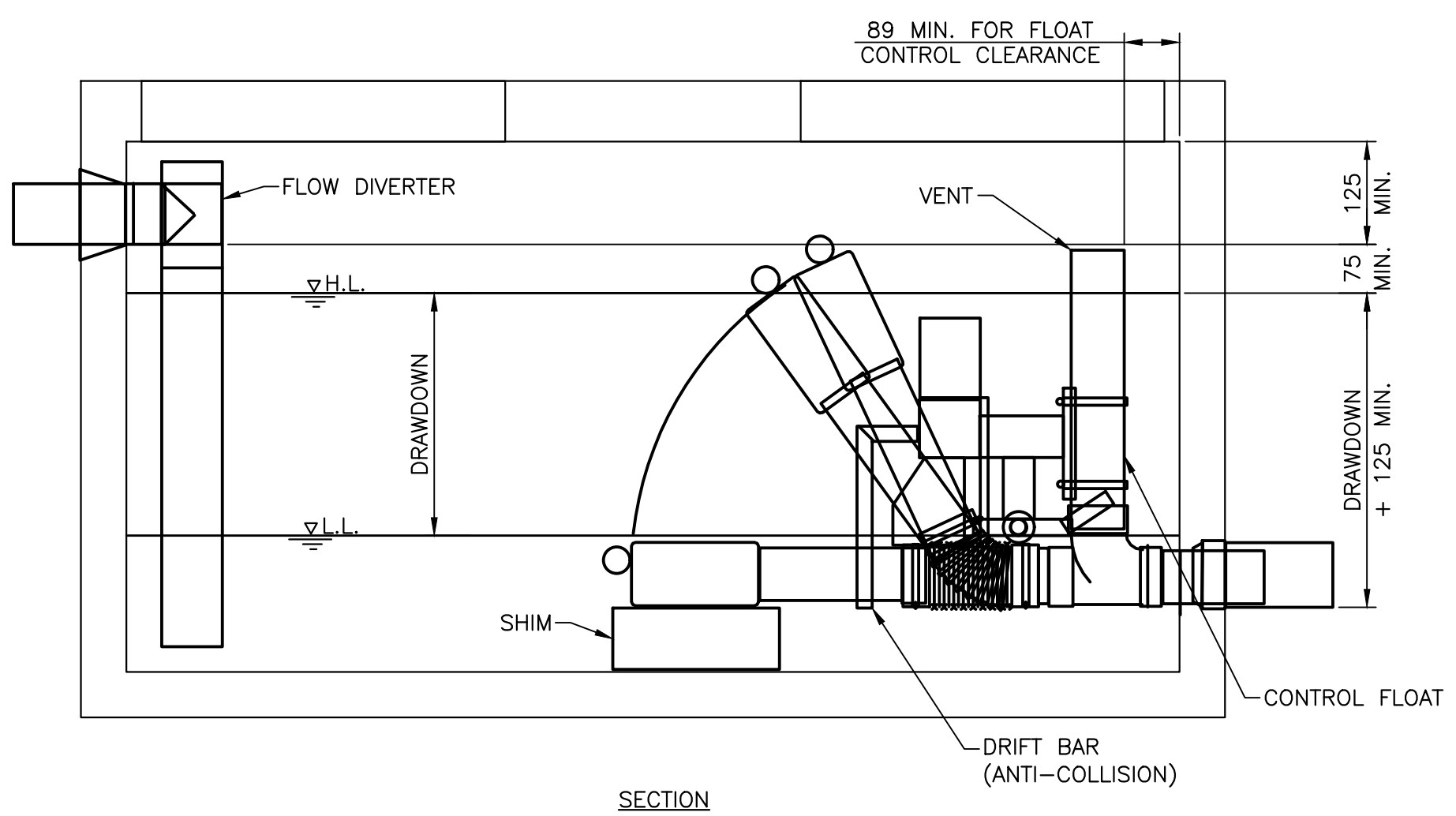
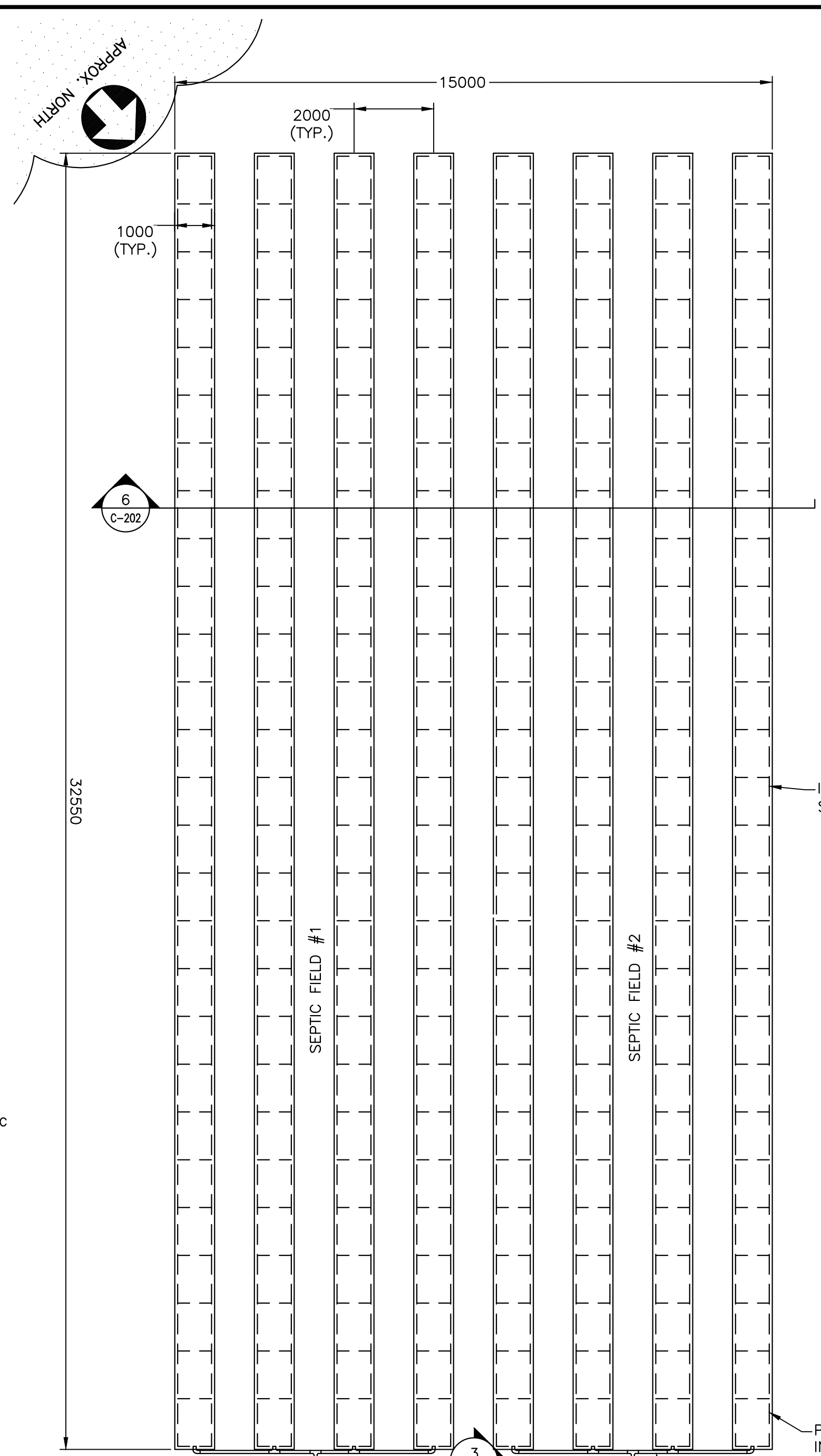


revisions	date	project
4	05/17 2018	RE-ISSUED FOR TENDER
3	04/11 2018	ISSUED FOR REVIEW
2	06/21 2017	ISSUED FOR TENDER
1	04/25 2017	ISSUED FOR 99% REVIEW

**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITWORK TENDER**

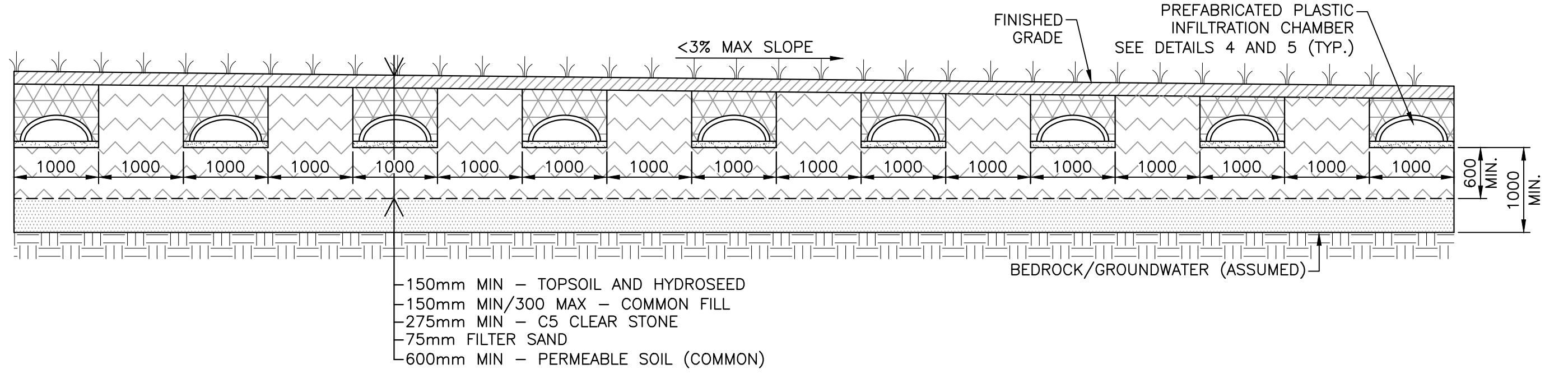
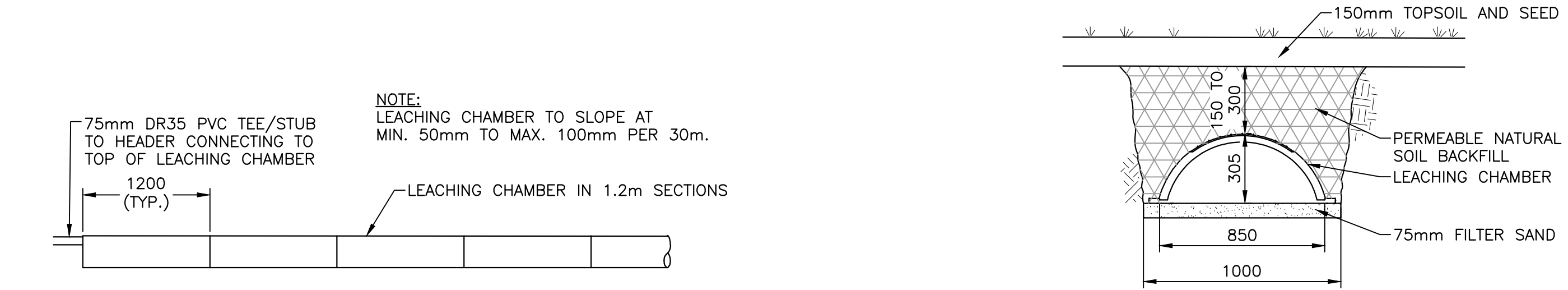
**DRAINAGE FIELD
DETAILS**

designed	J.M.	conçu
date	2017.04.25	
drawn	K.J.	dessiné
date	2017.04.25	
approved	C.B.	approuvé
date	2018.04.11	
Tender		Soumission
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
01092017		
drawing no.	no. du dessin	
C-202		

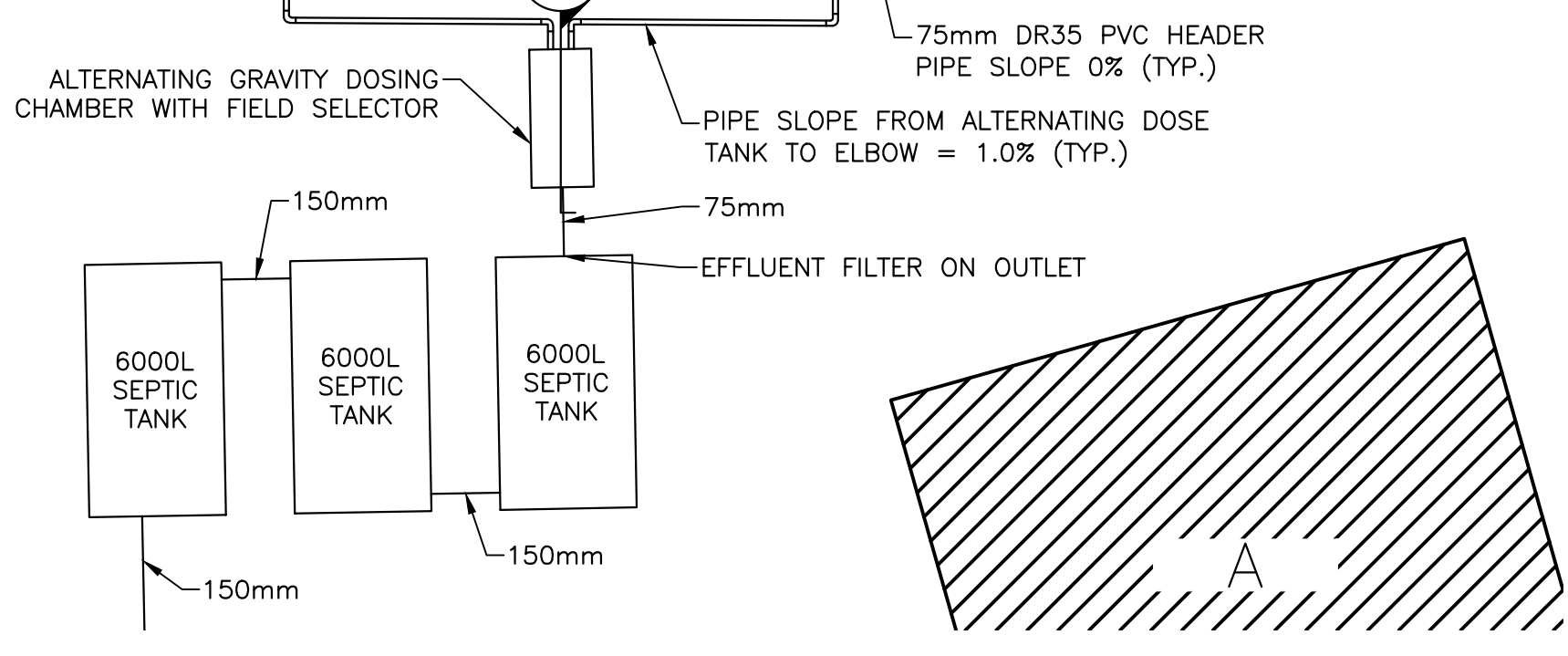


GRAVITY FED INFILTRATION CHAMBER DETAIL 4
SCALE : NTS

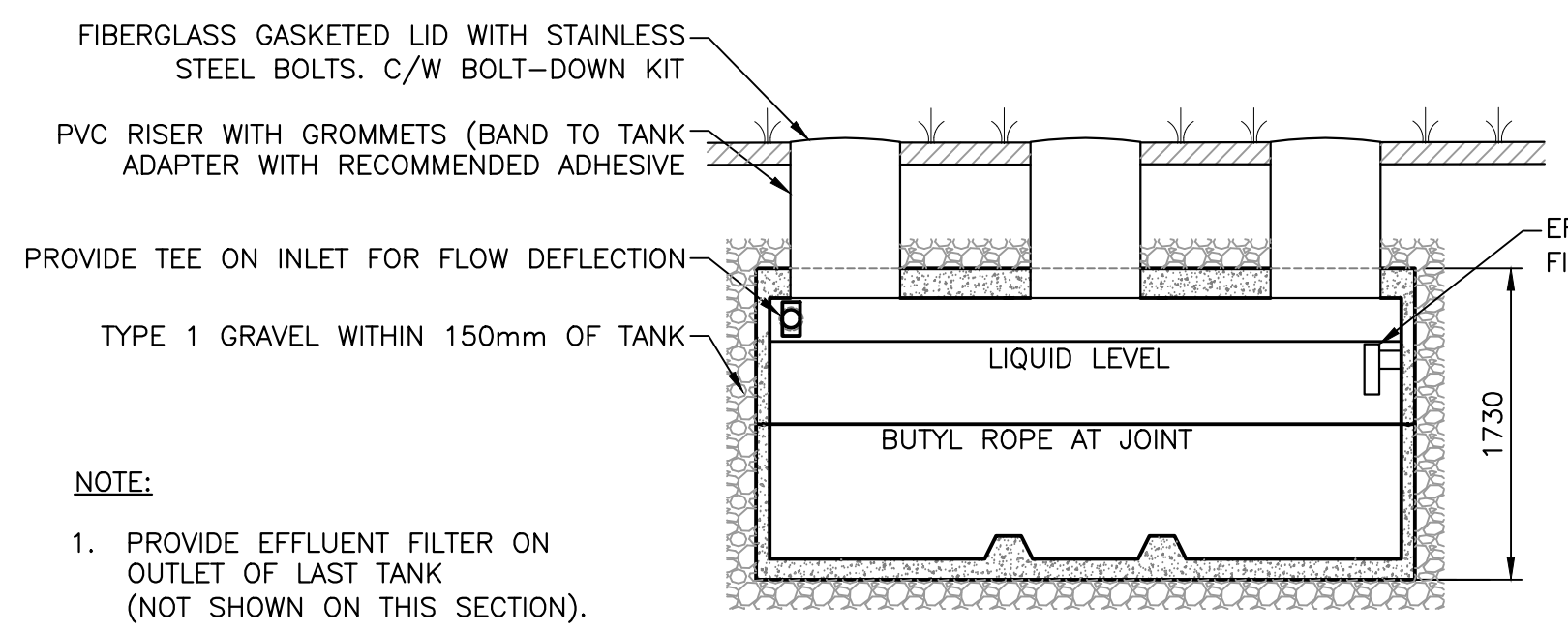
GRAVITY FED INFILTRATION CHAMBER SECTION 5
SCALE : NTS



SEPTIC FIELD SECTION DETAIL 6
SCALE: 1:50



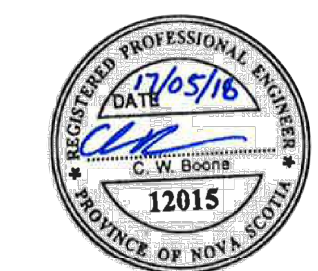
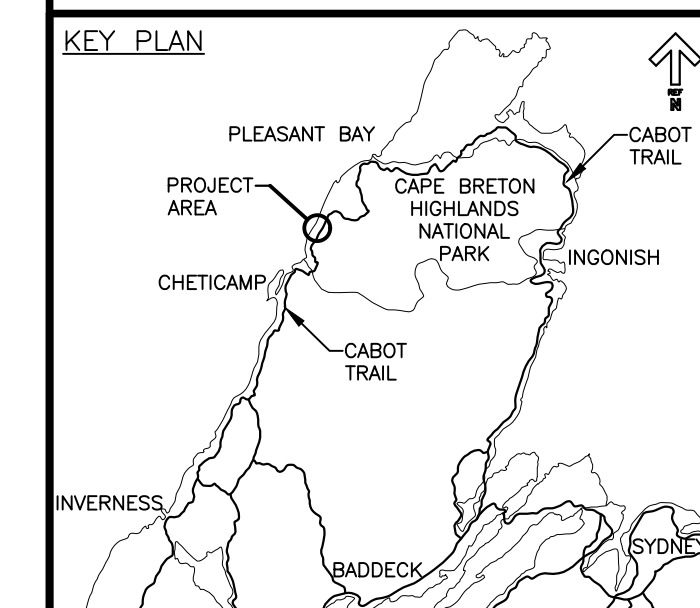
DRAINAGE FIELD PLAN DETAIL 1
SCALE : 1:100



SEPTIC TANK SECTION DETAIL 7
SCALE: 1:50

- NOTE:**
1. PROVIDE EFFLUENT FILTER ON OUTLET OF LAST TANK (NOT SHOWN ON THIS SECTION).
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE SEPTIC SYSTEM.

cd1213-101\work_group\1401\active\16141.3360\16141.3360\project_folder_template\04-drawings\1-civil\sheet_files\16141.3360\202-SEPTIC FIELD DETAILS.dwg

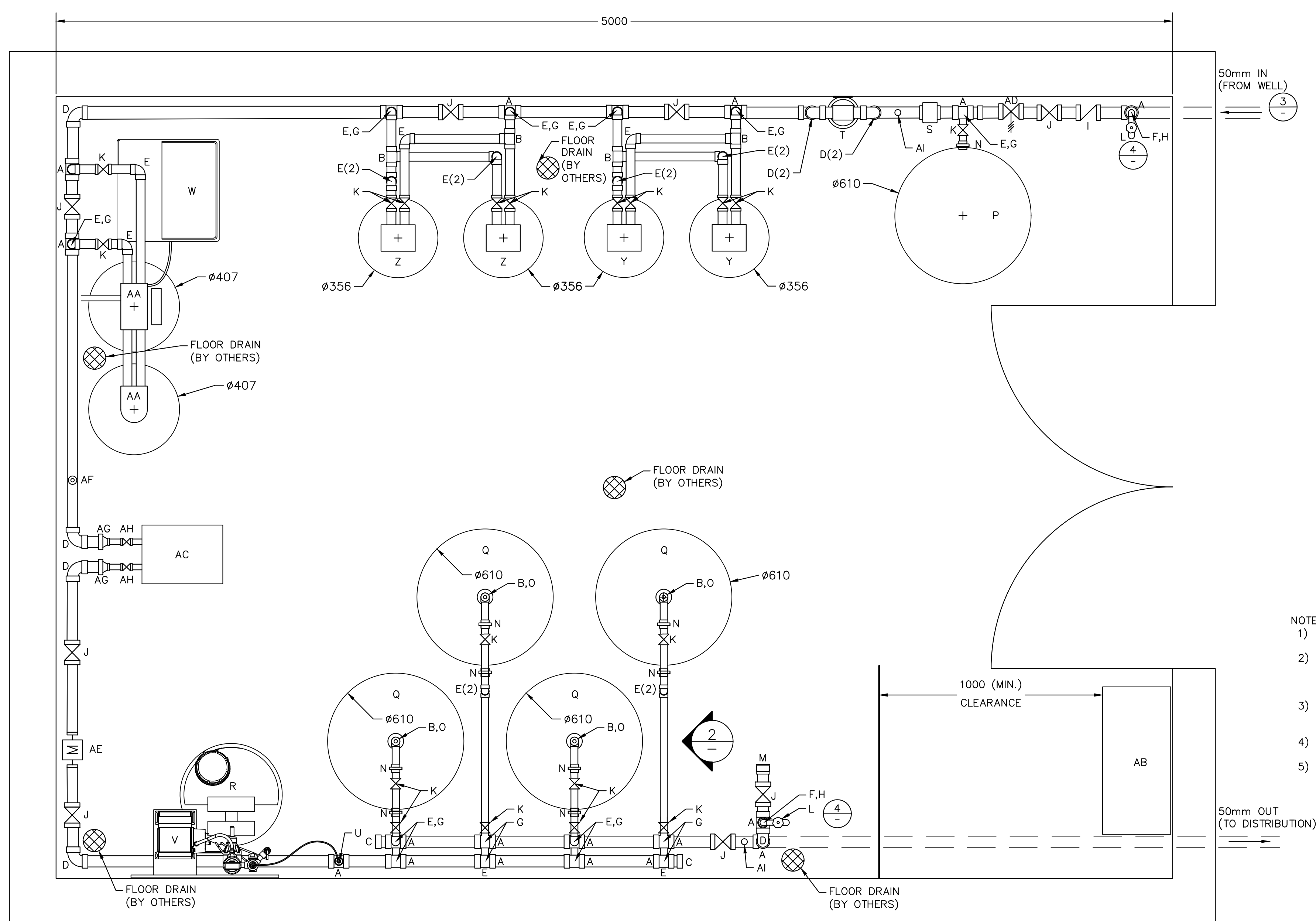


revisions	date	description
4	05/17/2018	RE-ISSUED FOR TENDER
3	04/11/2018	ISSUED FOR REVIEW
2	06/21/2017	ISSUED FOR TENDER
1	04/25/2017	ISSUED FOR 99% REVIEW

**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITWORK TENDER**

**WATER TREATMENT &
SUPPLY BUILDING**

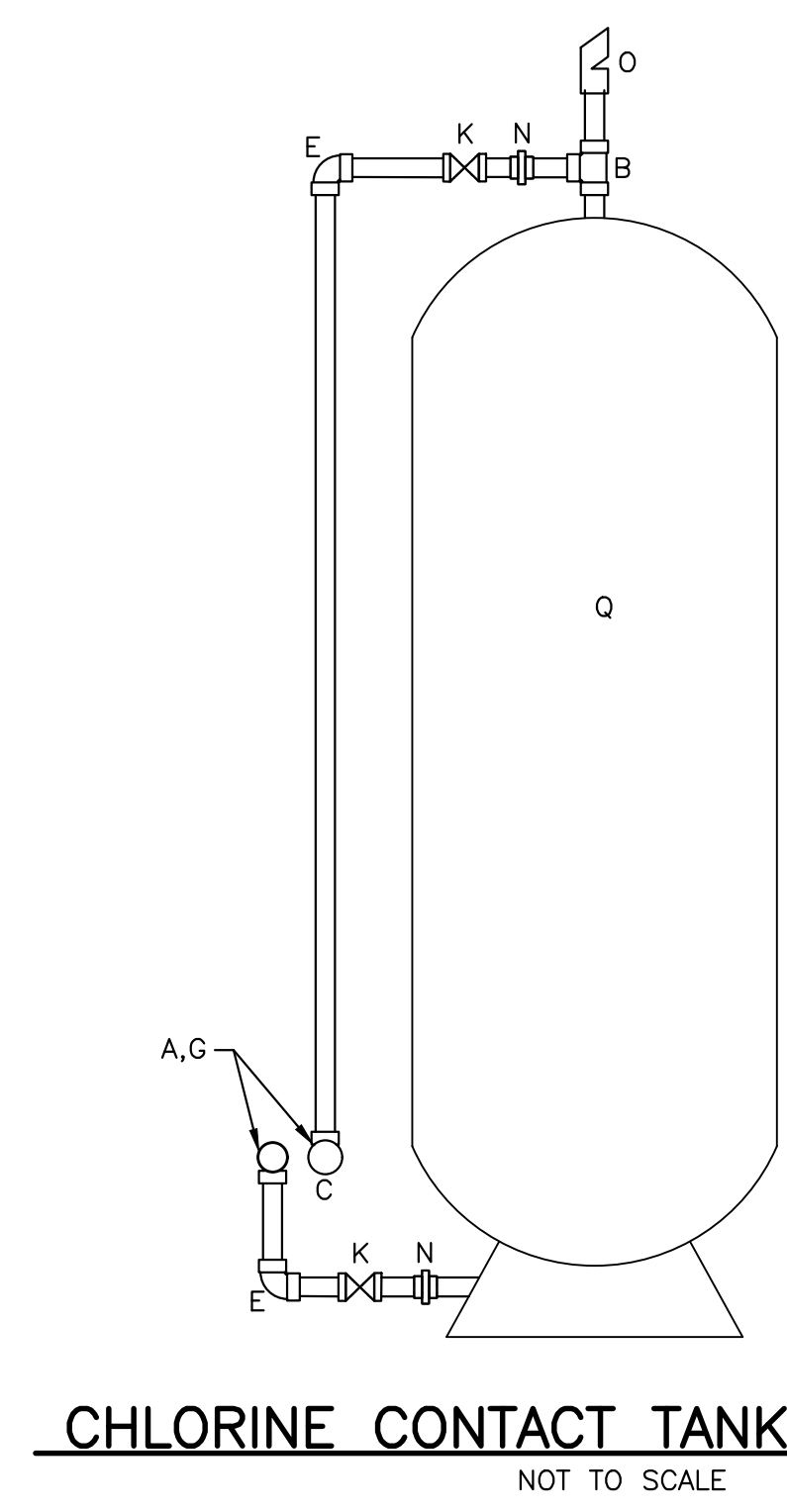
designed J.M.	conçu
date 2017.04.25	
drawn K.J.	dessiné
date 2017.04.25	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-203	



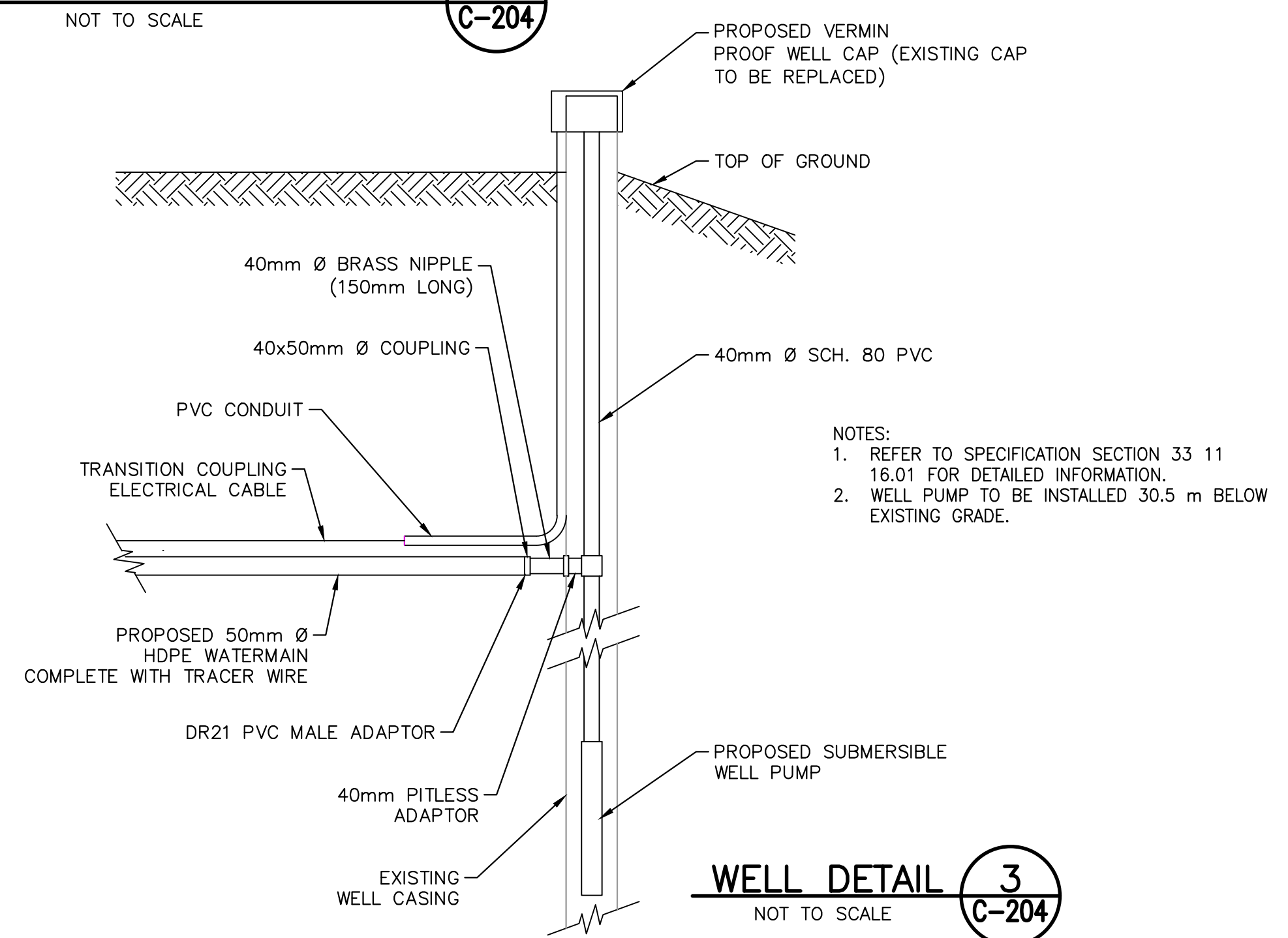
- A - 50x50x50mm SCH80 PVC TEE
- B - 32x32x32mm SCH80 PVC TEE
- C - 50mm SCH80 PVC CAP
- D - 50mm SCH80 PVC 90° BEND
- E - 32mm SCH80 PVC 90° BEND
- F - 19mm SCH80 PVC 90° BEND
- G - 50x32mm SCH80 PVC BUSHING
- H - 50x19mm SCH80 PVC BUSHING
- I - 50mm CHECK VALVE
- J - 50mm BALL VALVE
- K - 32mm BALL VALVE
- L - 19mm HOSEBIB
- M - 50mm CAMLOCK CONNECTION
- N - 32mm UNION
- O - AIR RELEASE VALVE
- P - EXPANSION TANK c/w DRAIN (235L)
- Q - CONTACT TANK c/w DRAIN (454L)
- R - CHLORINE SOLUTION TANK
- S - MECHANICAL PRESSURE SWITCH
- T - SEDIMENT FILTER (20 IGPM)
- U - CHLORINE INJECTION LANCE
- V - CHLORINE METERING PUMP C/W SKID
- W - BRINE TANK
- Y - IRON REMOVAL SYSTEM
- Z - ADSORBENT SYSTEM
- AA - SOFTENER SYSTEM
- AB - ELECTRICAL PANEL
- AC - BOOSTER PUMP
- AD - PRESSURE RELIEF VALVE
- AE - FLOW METER
- AF - PRESSURE SUSTAINING VALVE
- AG - 50mm x 25mm SCH80 PVC BUSHING
- AH - 25mm BALL VALVE
- AI - PRESSURE GAUGE

- NOTES:
- 1) PIPING AND VALVES TO BE SCH80 PVC. REQUIRED PIPING SIZES AS DICTATED BY VALVE AND CONNECTION REQUIREMENTS.
 - 2) TREATMENT COMPONENTS SHALL NOT BEAR THE WEIGHT OF PIPING. PIPE SUPPORT TO BE INSTALLED A MINIMUM OF EVERY 1000mm ON STRAIGHT RUNS OF PIPING AND AT LOCATIONS OF VALVES AND RAISED ELBOWS. PIPE SUPPORT TO BE SECURELY ANCHORED AND DESIGNED TO FIT SCH80 PVC PIPING.
 - 3) REFER TO PROCESS FLOW DIAGRAM FOR SANITARY DRAIN LOCATIONS FROM TREATMENT COMPONENTS. DESIGN AND FINAL LOCATION OF FLOOR DRAINS BY OTHERS.
 - 4) DRAIN LINES SHALL NOT BE DIRECTLY CONNECTED TO THE SANITARY SYSTEM. AN AIR GAP IS REQUIRED TO PREVENT SANITARY BACKUP INTO THE POTABLE SYSTEM.
 - 5) WATER TREATMENT BUILDING TO BE DESIGNED AND CONSTRUCTED BY PARKS CANADA. WOOD FRAME CONSTRUCTION WITH SLAB ON-GRADE.

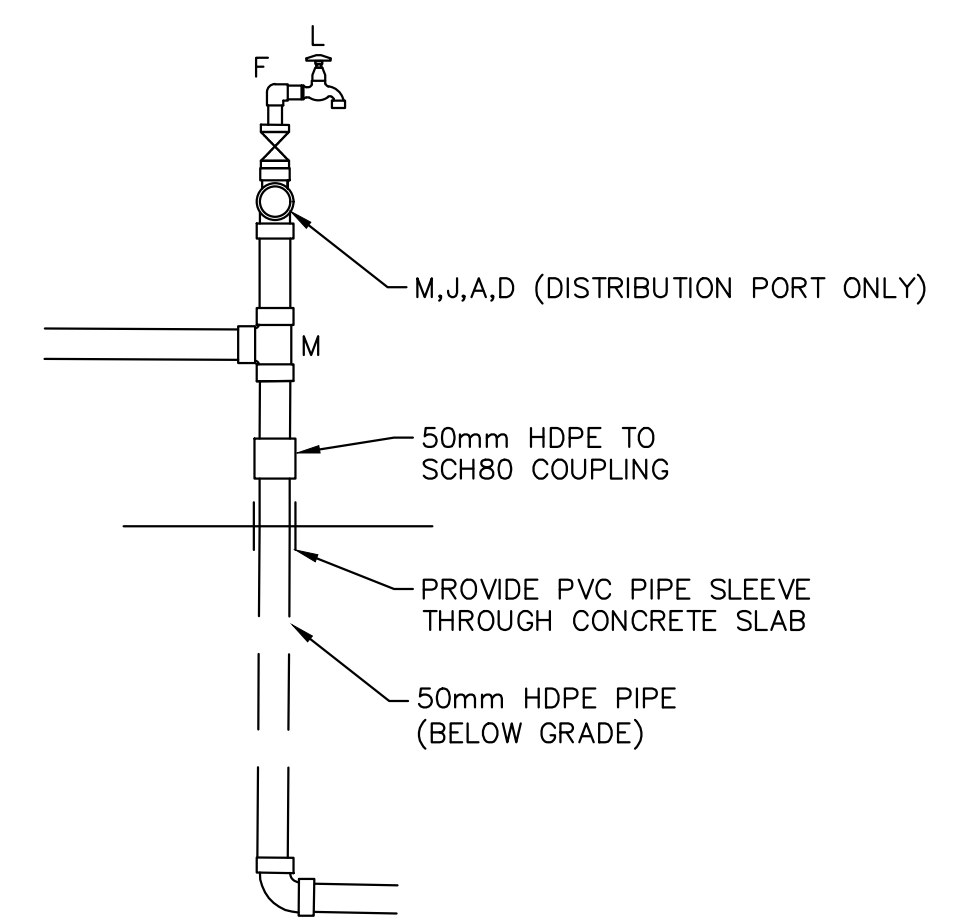
WATER TREATMENT BUILDING LAYOUT 1
NOT TO SCALE (C-204)



CHLORINE CONTACT TANK SECTION 2
NOT TO SCALE (C-204)



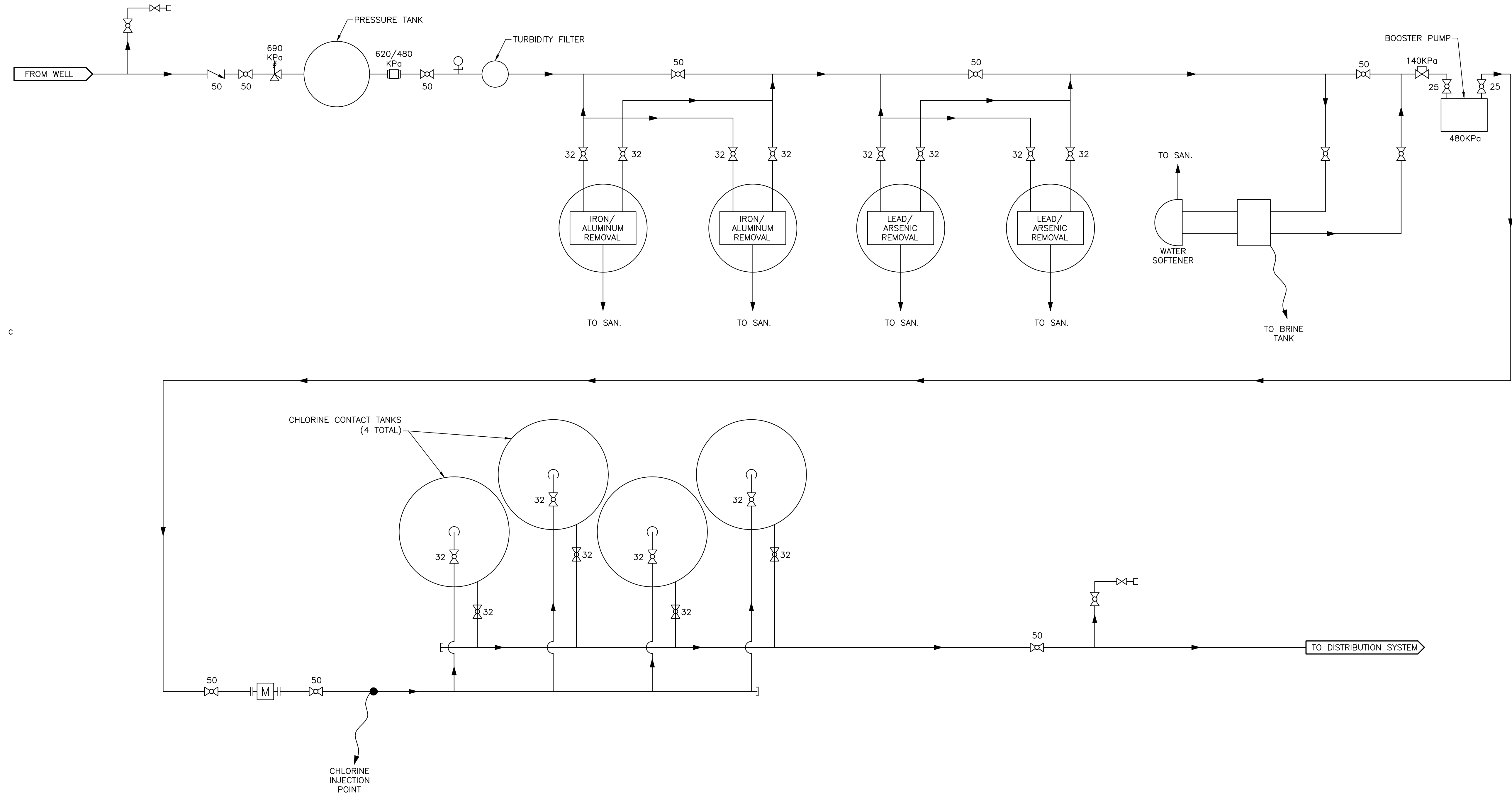
WELL DETAIL 3
NOT TO SCALE (C-204)



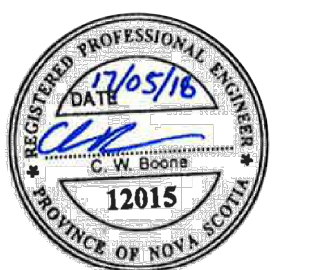
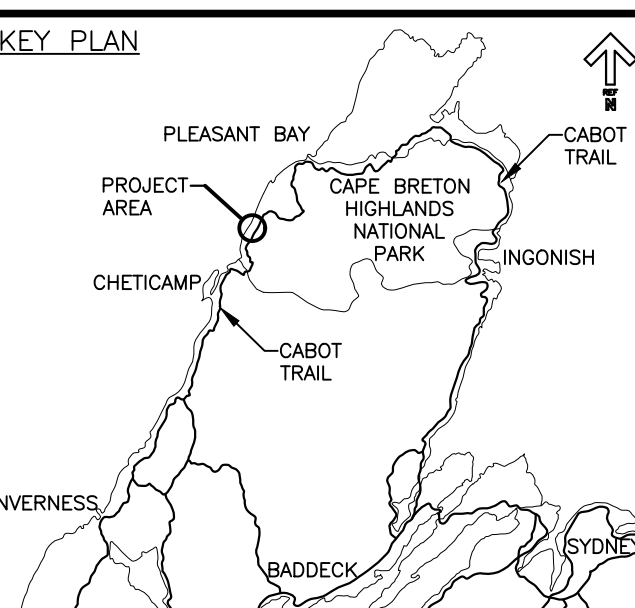
SAMPLING AND FLUSHING PORT 4
NOT TO SCALE (C-204)

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 PWSC A1 (2004)

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 P:\DWG



- LEGEND:**
- CAMLOCK CONNECTION
 - BALL VALVE
 - CHECK VALVE
 - PRESSURE GAUGE
 - PRESSURE SWITCH
 - PRESSURE RELIEF VALVE
 - AIR RELIEF VALVE
 - END CAP
 - FLOW METER
 - HOSE BIB
 - PRESSURE SUSTAINING VALVE

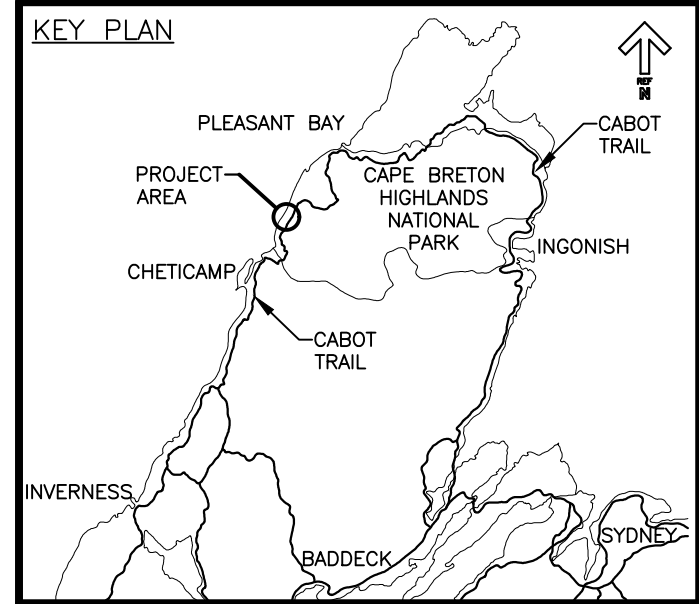


1	RE-ISSUED FOR TENDER	05/17 2018
revisions		date

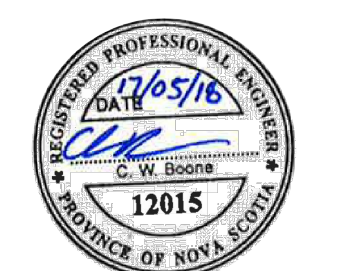
**PARKS CANADA
TROUT BROOK
CAMPGROUND
SITEWORK TENDER**

**WATER TREATMENT
PROCESS
FLOW DIAGRAM**

designed J.M.	conçu
date 2017.04.25	
drawn K.J.	dessiné
date 2017.04.25	
approved C.B.	approuvé
date 2018.04.11	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
01092017	
drawing no.	no. du dessin
C-204	



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 2. THRUST BLOCK MUST NOT COVER ANY JOINT
 3. REFER TO DETAIL 1 FOR THRUST BLOCK DIMENSIONS
 4. CONCRETE FOR THRUST BLOCK TO BE PLACED AFTER VALVE ASSEMBLY HAS BEEN SET.
 5. ANCHOR RODS TO BE INSTALLED AROUND VALVE BODY AND EMBEDDED IN CONCRETE POURED BENEATH VALVE.

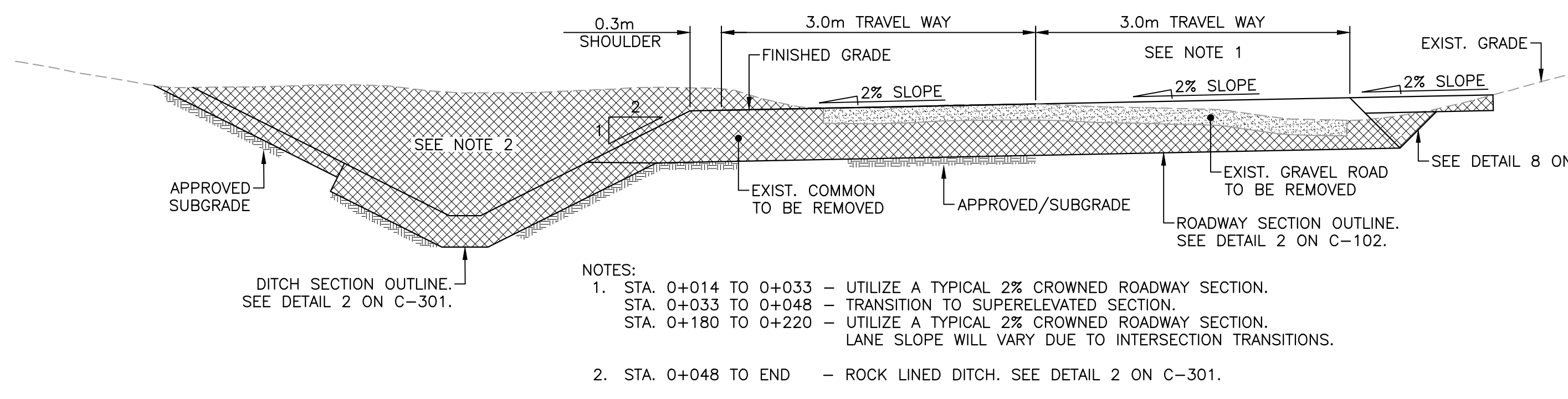


3	RE-ISSUED FOR TENDER	05/17 2018
2	ISSUED FOR REVIEW	04/11 2018
1	ISSUED FOR TENDER	06/21 2017
revisions		date

project: **PARKS CANADA TROUT BROOK CAMPGROUND SITEWORK TENDER**

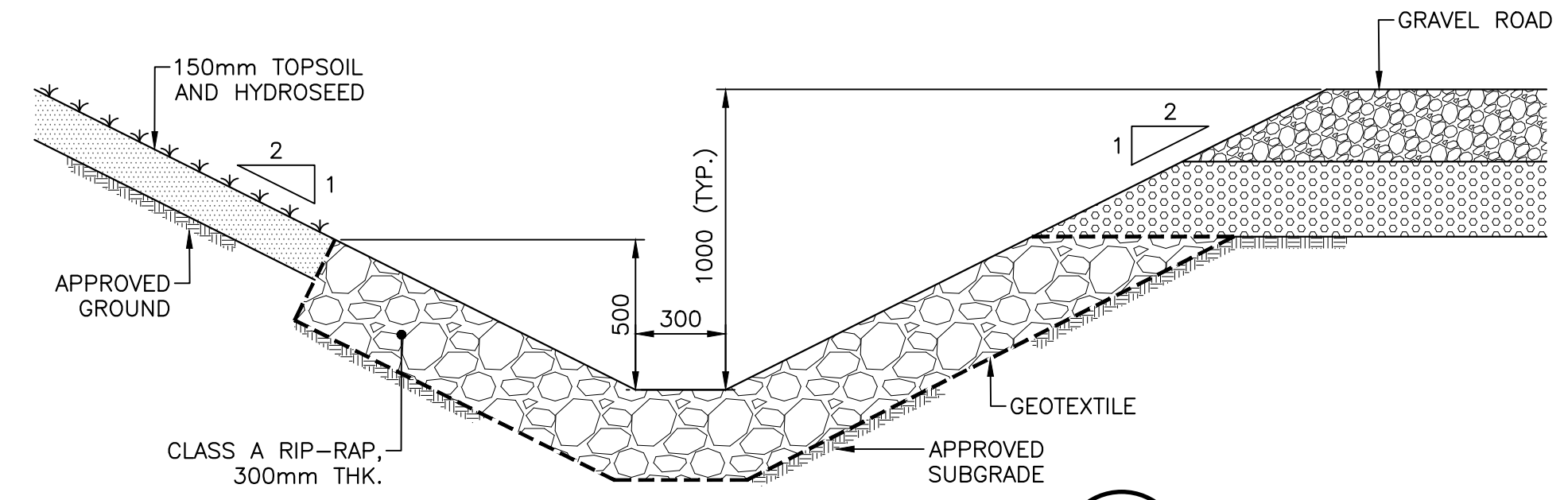
drawing: **CONSTRUCTION DETAILS**

designed	J.M.	conçu
date	2017.06.13	
drawn	K.J.	dessiné
date	2017.06.13	
approved	C.B.	approuvé
date	2018.04.11	
Tender		Soumission
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
01092017		
drawing no.	no. du dessin	
C-301		

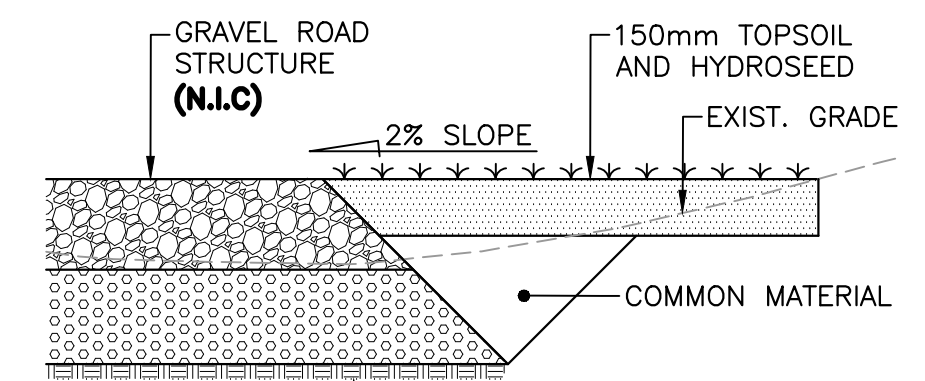


- NOTES:
1. STA. 0+014 TO 0+033 - UTILIZE A TYPICAL 2% CROWNED ROADWAY SECTION.
 STA. 0+033 TO 0+048 - TRANSITION TO SUPERELEVATED SECTION.
 STA. 0+180 TO 0+220 - UTILIZE A TYPICAL 2% CROWNED ROADWAY SECTION.
 LANE SLOPE WILL VARY DUE TO INTERSECTION TRANSITIONS.
 2. STA. 0+048 TO END - ROCK LINED DITCH. SEE DETAIL 2 ON C-301.

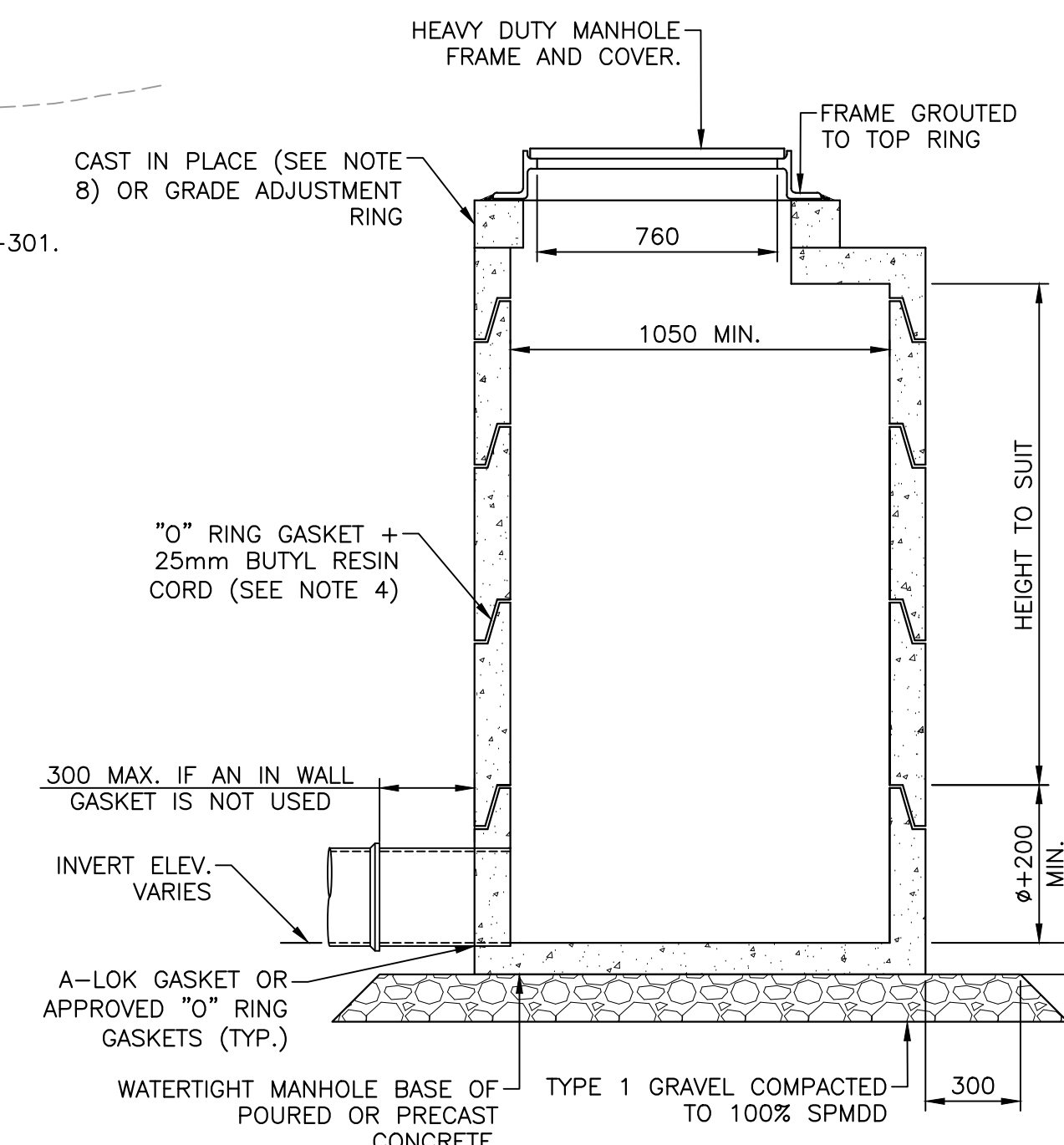
ROAD GRADING SECTION DETAIL 1
 NOT TO SCALE
 (NIC)
 C-103
 C-104



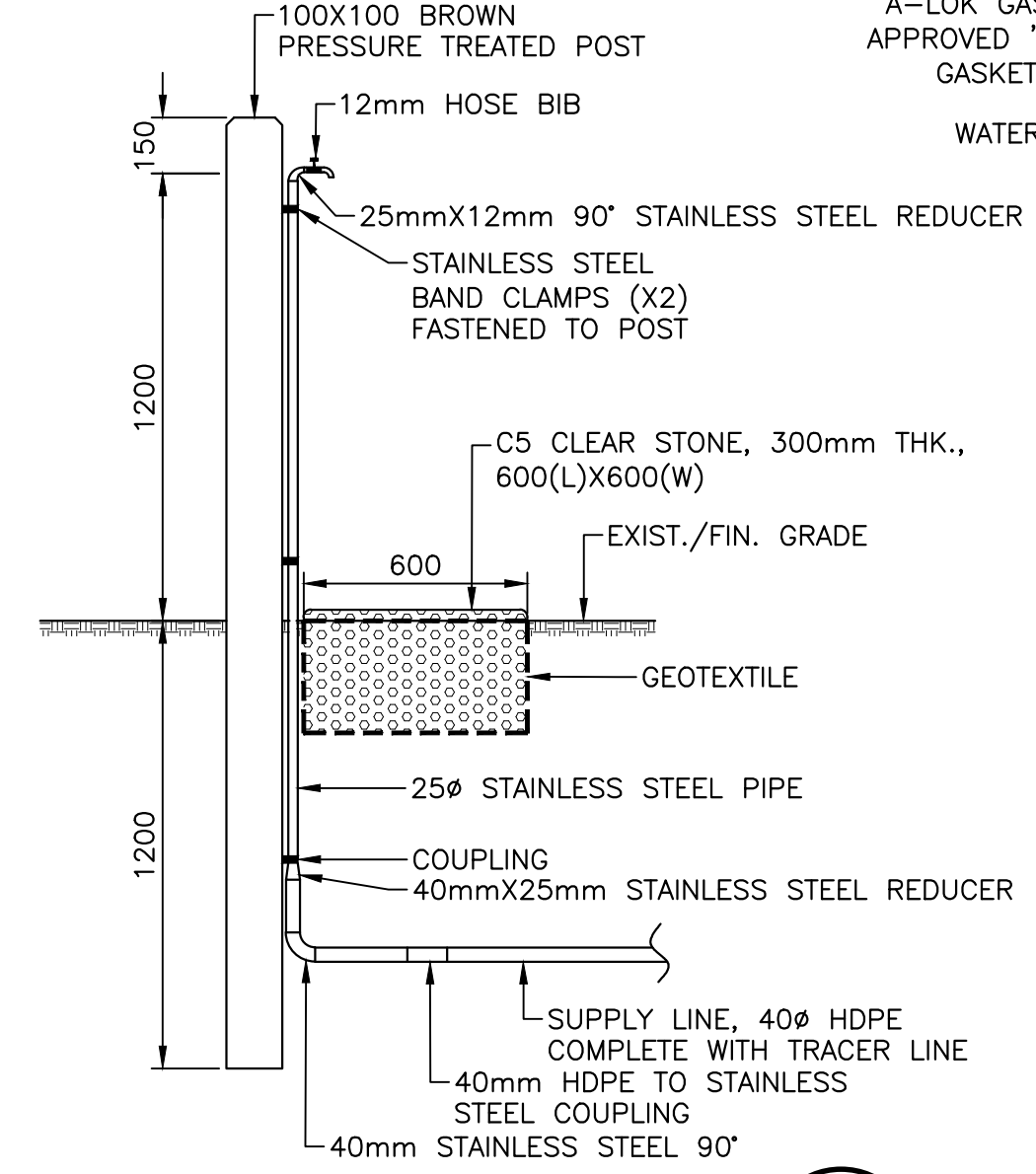
ROCK LINED DITCH 2
 NOT TO SCALE
 (NIC)
 C-103
 C-104



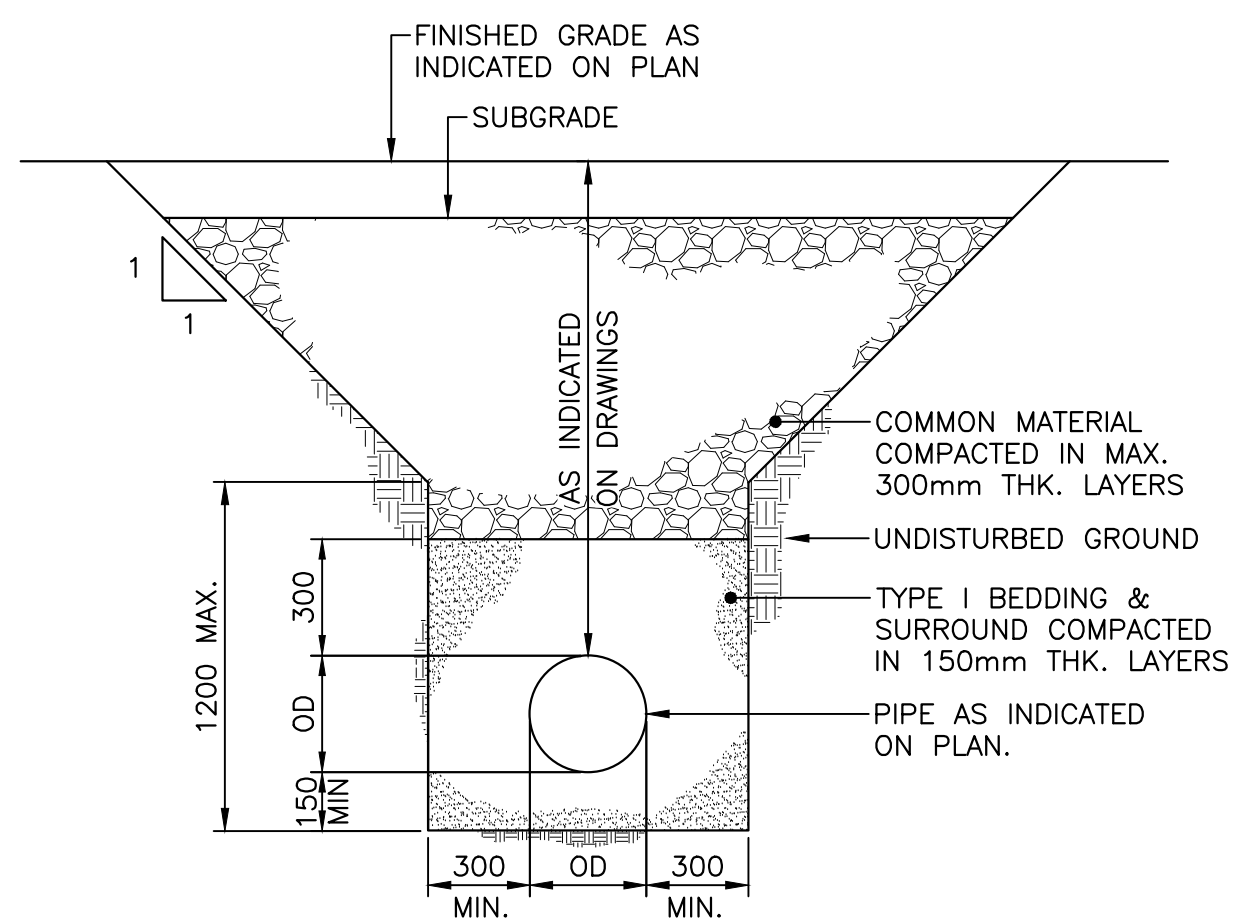
FILL SECTION DETAIL 8
 NOT TO SCALE
 (NIC)
 C-103
 C-104



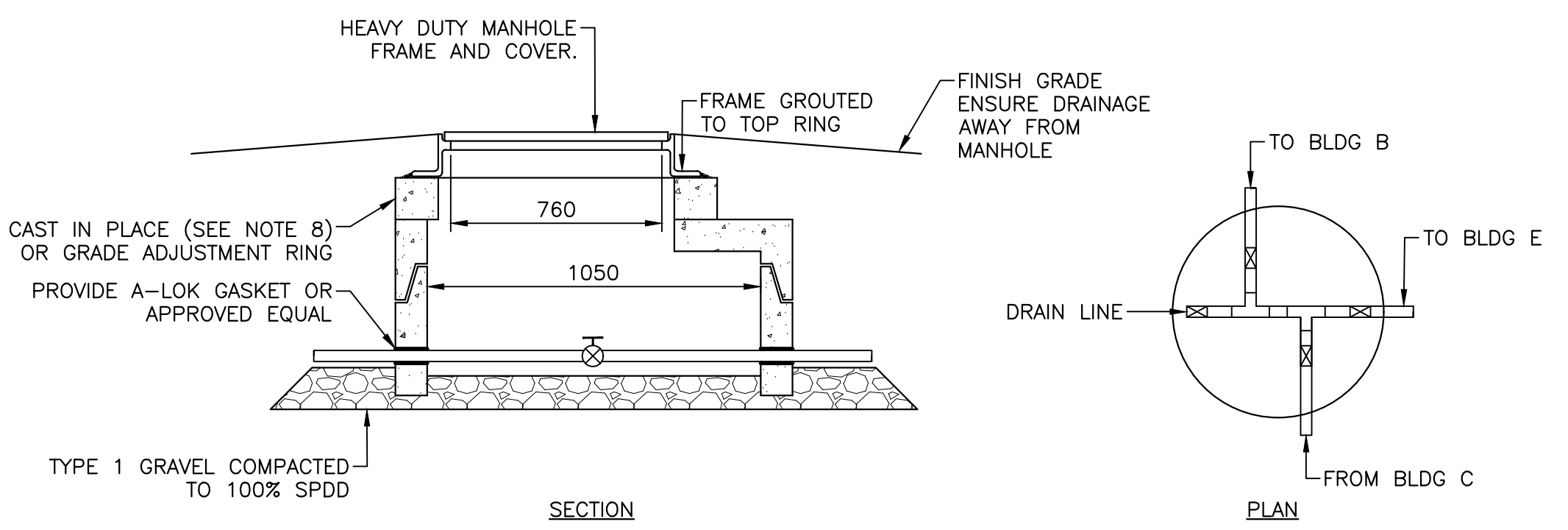
MANHOLE DETAIL 5
 NOT TO SCALE
 C-105



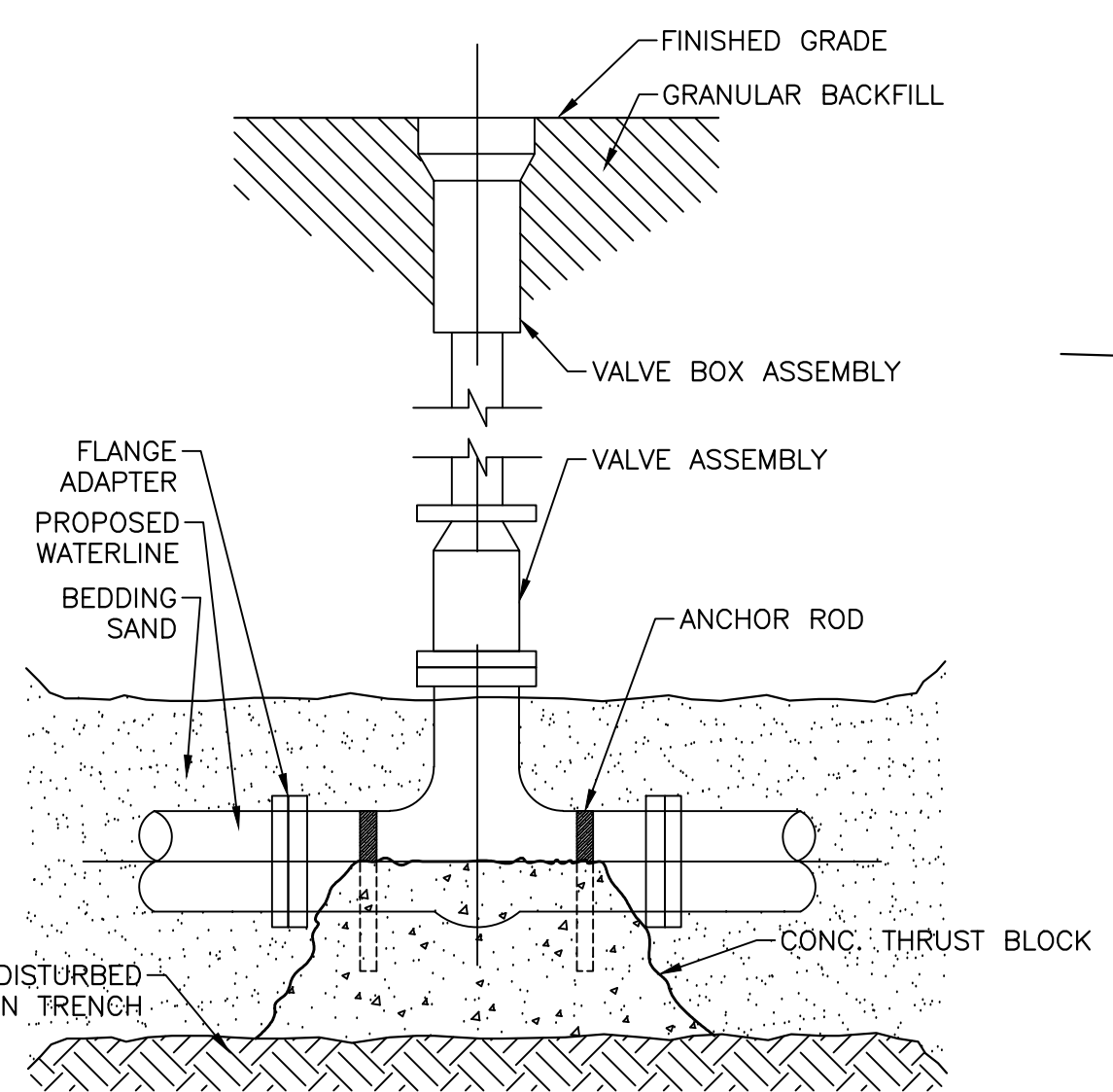
WATER SPIGOT DETAIL 3
 NOT TO SCALE
 C-103



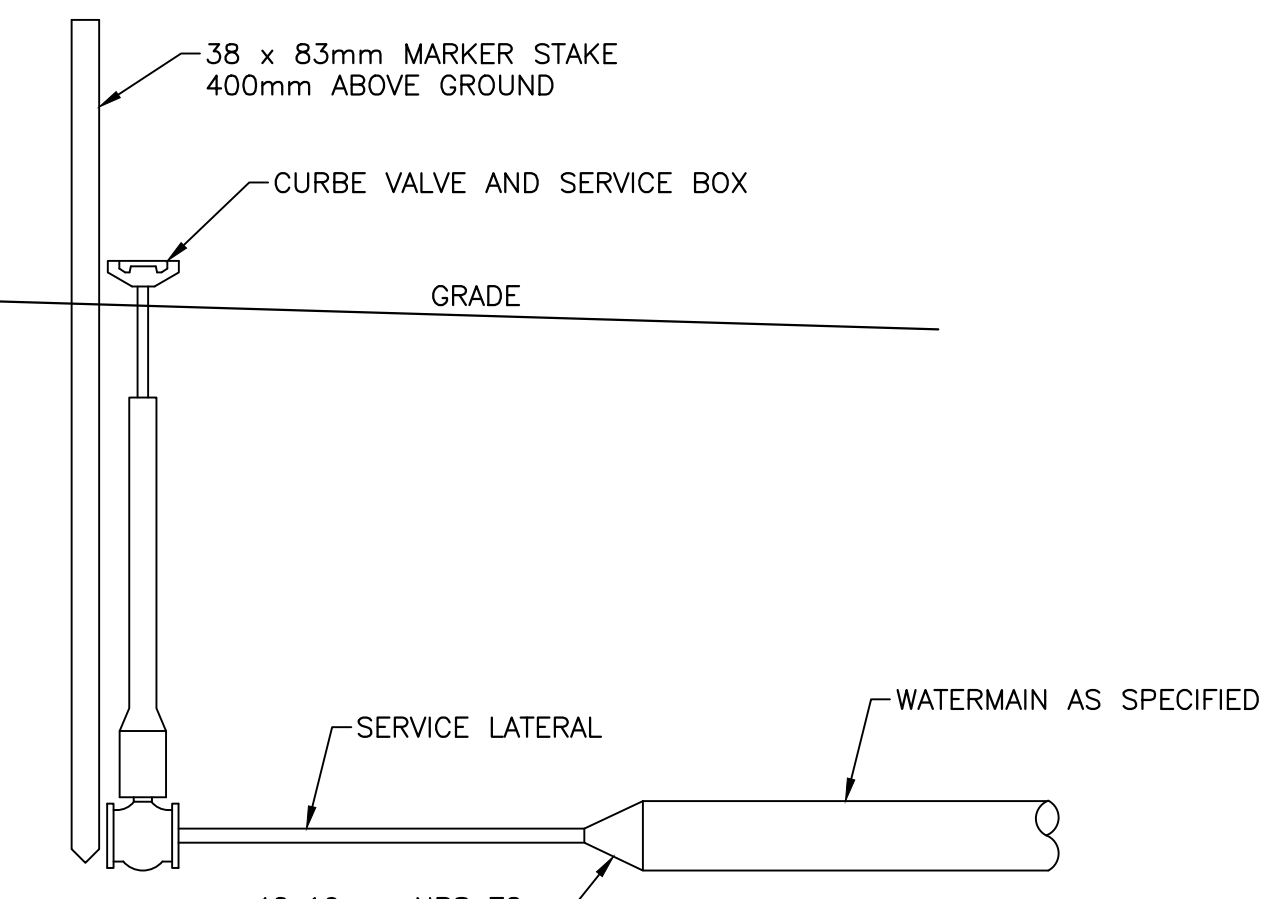
TRENCH DETAIL 6
 NOT TO SCALE
 C-105



VALVE CHAMBER DETAIL 4
 NOT TO SCALE
 C-104
 C-105



VALVE BOX DETAIL 7
 NOT TO SCALE
 C-105



CURB STOP DETAIL 8
 NOT TO SCALE
 C-105

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 PWGSC A1 (2004)

