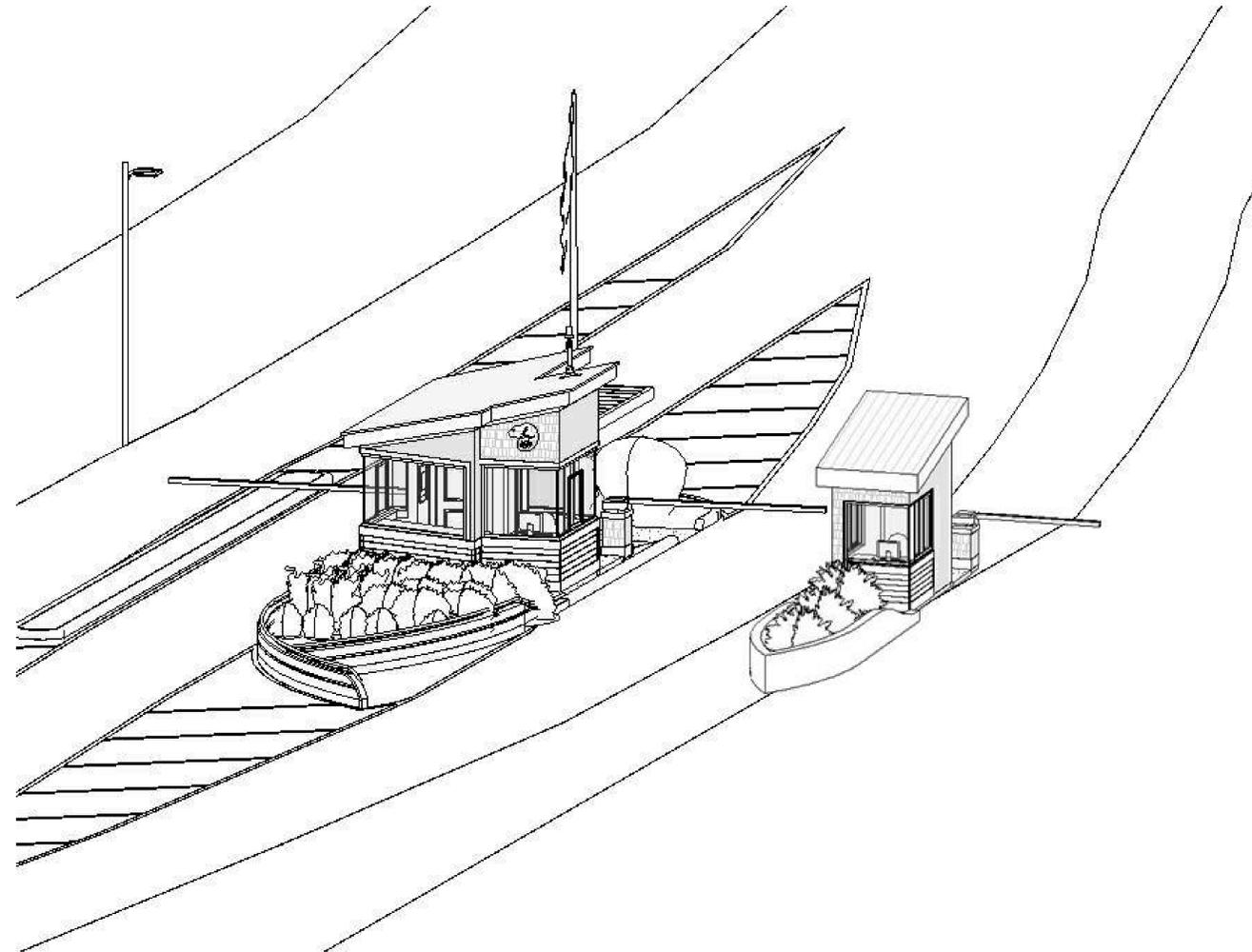


PARKS CANADA AGENCY

PARKS CANADA ENTRANCES & KIOSKS BRACKLEY BEACH

COLES
 Architecture + Engineering + Project Management
 Suite 201, 85 Fitzroy Street
 Charlottetown, P.E.I., Canada, C1A 1R6
 Phone: (866) 369-2300
 www.colesassociates.com



ARCHITECTURAL

- A0 COVER PAGE
- A1 PLANS AND ELEVATIONS (SMALL KIOSK)
- A2 PLANS AND ELEVATIONS (LARGE KIOSK)
- A3 BUILDING SECTIONS, WALL SECTIONS AND DETAILS
- A4 WINDOW & DOOR SCHEDULES, ELEVATIONS AND MILLWORK

CIVIL

- C1 EXISTING SITE PLAN & NOTES
- C2 NEW SITE PLAN & NOTES
- C3 SITE DETAILS & NOTES
- C4 SITE DETAILS & NOTES

MECHANICAL

- M1 MECHANICAL PLANS, DETAILS, AND SCHEDULES

ELECTRICAL

- E1 ELECTRICAL SITE PLAN & DETAILS
- E2 ELECTRICAL TRENCH DETAILS
- E3 ELECTRICAL FLOOR PLANS & DETAILS



0	ISSUED FOR TENDER	04/25 2019
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revisions		date
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drawing		projet
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PARKS CANADA
 AGENCY ENTRANCES
 & KIOSKS BRACKLEY
 BEACH, PE

drawing		dessin
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COVER PAGE

designed	J.A.	conçu
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date	APRIL 2019	
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drawn	J.A.	dessiné
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date	APRIL 2019	
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approved	W.S.	approuvé
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date	APRIL 2019	
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Tender		Soumission
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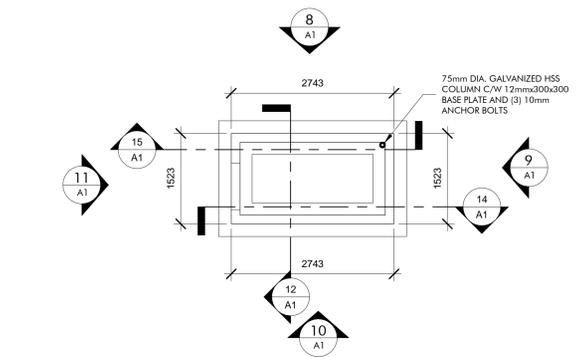
PWSSC Project Manager	Administrateur de projets TPSSC
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project number	no. du projet
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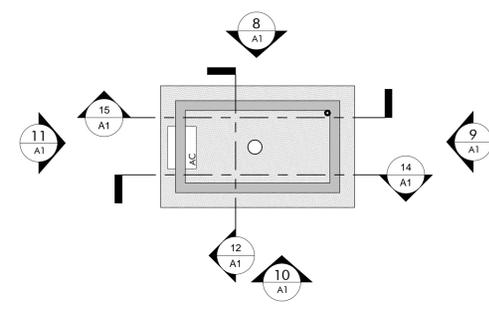
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drawing no	no. du dessin
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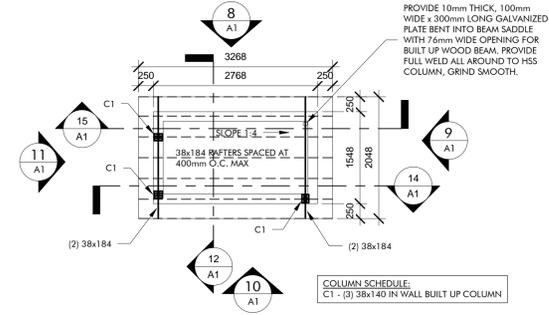
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2 FOUNDATION PLAN
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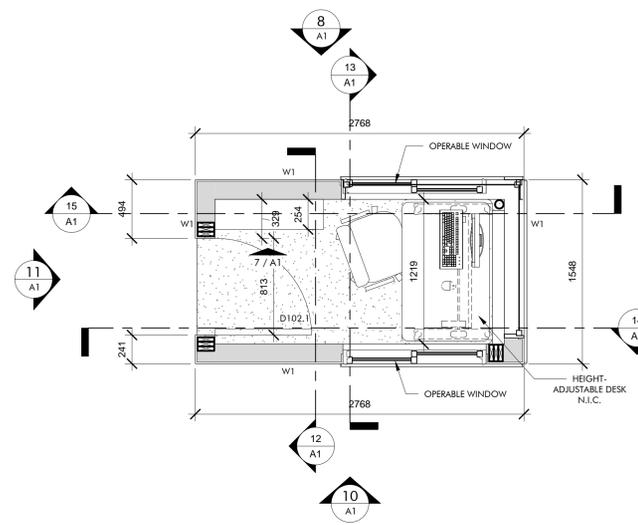


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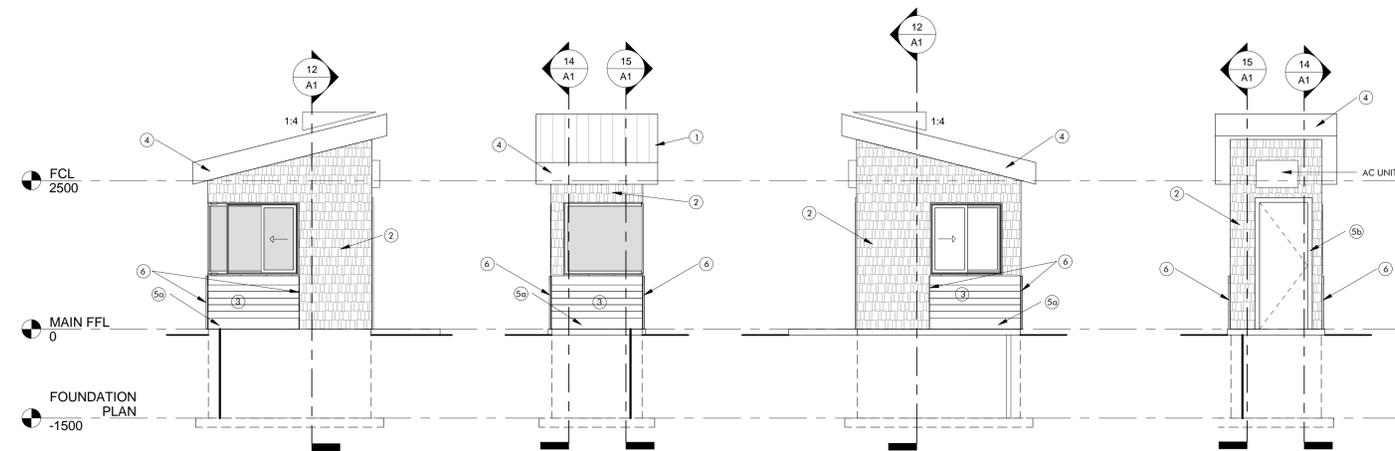


4 ROOF PLAN
 1:50

COLUMN SCHEDULE:
 C1 - (3) 38x140 IN WALL BUILT UP COLUMN



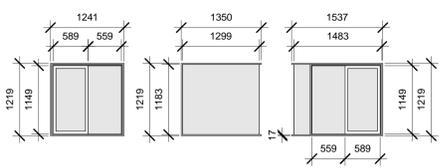
1 MAIN FLOOR PLAN
 1:25



8 NORTH ELEVATION 1:50
 9 EAST ELEVATION 1:50
 10 SOUTH ELEVATION 1:50
 11 WEST ELEVATION 1:50

ELEVATION MATERIAL LEGEND

1	VICWEST METAL ROOFING - PROFILE: TRADITION 100-4 COLOR: REGENT GRAY #56082
2	MAIBEC PREFINISHED CEDAR SHINGLE; MAIBEC TRADITIONAL COLOR: BABY HARBOUR NATURAL
3	MAIBEC PREFINISHED WOOD SIDING; MAIBEC BRUSHED MODERN COLOUR - MAIBEC 001, ULTRA-WHITE
4	250mm MAIBEC WOOD FASCIA; COLOR - BRUSHED 001, ULTRA-WHITE
5a	200mm MAIBEC WOOD FROST BOARD; COLOR - BRUSHED 001, ULTRA-WHITE
5b	150mm MAIBEC WOOD TRIM; COLOR - BRUSHED 001, ULTRA-WHITE
6	PREFINISHED METAL OUTSIDE CORNER - MAIBEC



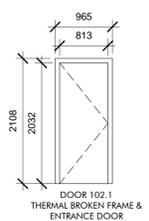
5 WINDOW ELEVATIONS
 1:50

DOOR 102.1 HARDWARE SCHEDULE

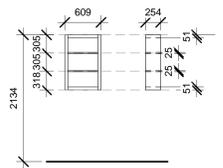
3	EA	HINGE	58B1 114X102MM NRP	630	IVE
1	EA	STOREROOM LOCK	L9080GD 17A	626	SCH
1	EA	CH1 STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP-LONG	689	LCN
1	EA	MIG PRT	4040XP-180	689	LCN
1	SET	WEATHERSTRIP	W-14 x door width x (2) door height	678	KNC
1	EA	DOOR SCHEDULE	W-245 x by door width	628	KNC
1	EA	THRESHOLD	CT - 39 x by door width	627	KNC

DOOR AND FRAME SCHEDULE

DOOR	D1
WIDTH (mm)	813
HEIGHT (mm)	2030
THICKNESS (mm)	51
MATERIAL	FIBREGLASS
FINISH	PAINT
FRAME	STEEL
MATERIAL	STEEL
FINISH	PAINT
COMMENTS	



6 DOOR ELEVATION
 1:50



7 MILLWORK
 1:50

WALL SCHEDULE

TYPE	DESCRIPTION	REMARKS
W1	EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) -CEDAR BREATHER -CONTINUOUS NO/VAIR/WRAP AIR BARRIER -12.5mm EXTERIOR PLYWOOD SHEATHING -38mm x 150mm WOOD STUDS AT 400mm O.C. -R-20 BATT INSULATION -10ml POLY VAPOUR BARRIER -16mm GYPSUM WALL BOARD PAINTED	

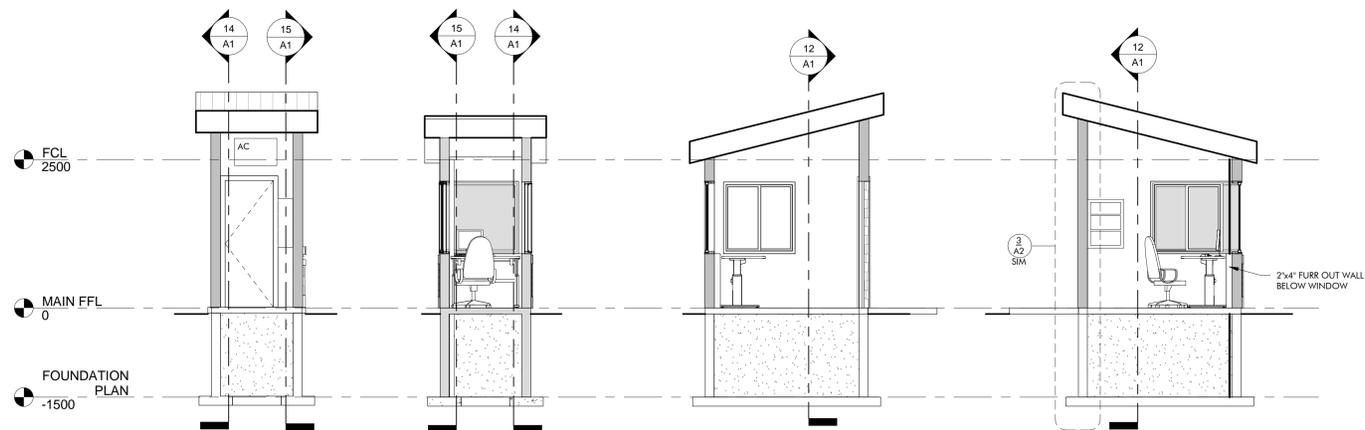
ROOF TYPE SCHEDULE

TYPE	DESCRIPTION	REMARKS
R1	VICWEST METAL ROOFING - PROFILE: TRADITION 100-4 COLOR - REGENT GRAY #56082 -PEEL AND STICK NON-PERMEABLE MEMBRANE -19mm PLYWOOD SHEATHING -38mm x 184mm WOOD RAFTER SPACED AT 400mm O.C. -R-20 BATT INSULATION -10ml POLY VAPOUR BARRIER -19mm x 64mm WOOD STRAPPING -16mm GYPSUM WALL BOARD PAINTED	

FLOOR TYPE SCHEDULE

TYPE	DESCRIPTION	REMARKS
F1	-CERAMIC TILE FLOOR -100mm REINFORCED CONCRETE SLAB -10ml POLY VAPOUR BARRIER (TAPED AND SEALED) -100mm CLASS GRAVEL COMPACTED TO 100% SPMD -APPROVED UNDISTRIBUTED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	

- FLOOR PLAN NOTES:
- ALL PENETRATIONS IN RATED PARTITIONS AND/OR FLOOR ASSEMBLIES FOR PLUMBING, DUCTING OR ELECTRICAL RUNS ARE TO BE SEALED. FIRE STOP IN ACCORDANCE WITH WALL AND/OR FLOOR TYPES. SUBMIT ULC DETAILS AND MATERIALS DURING SHOP DRAWING PROCESS FOR REVIEW PRIOR TO INSTALLATION.
 - PROVIDE 5/8" WATERPROOF GWB AROUND ALL TUBS/SHOWERS.
 - VENT ALL FANS TO OUTSIDE AIR THROUGH VENT C/W HOOD.
 - DOORS, FRAMES AND HARDWARE TO MATCH WALL FIRE RESISTANCE RATING.



12 SECTION A 1:50
 13 SECTION B 1:50
 14 SECTION C 1:50
 15 SECTION D 1:50

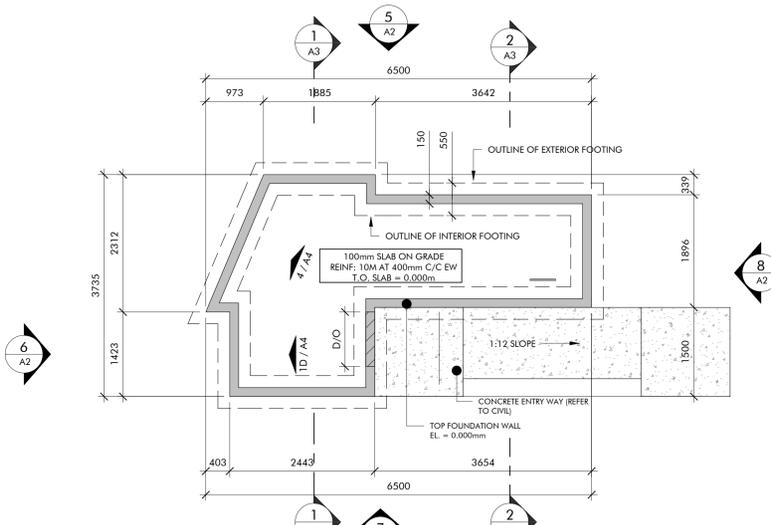


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revisions		date

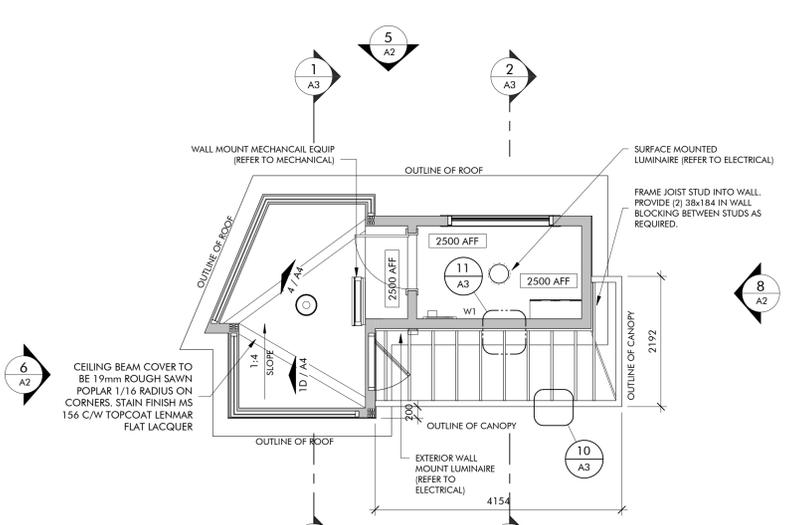
PARKS CANADA
 AGENCY ENTRANCES
 & KIOSKS BRACKLEY
 BEACH, PE

PLANS AND
 ELEVATIONS
 (SMALL KIOSK)

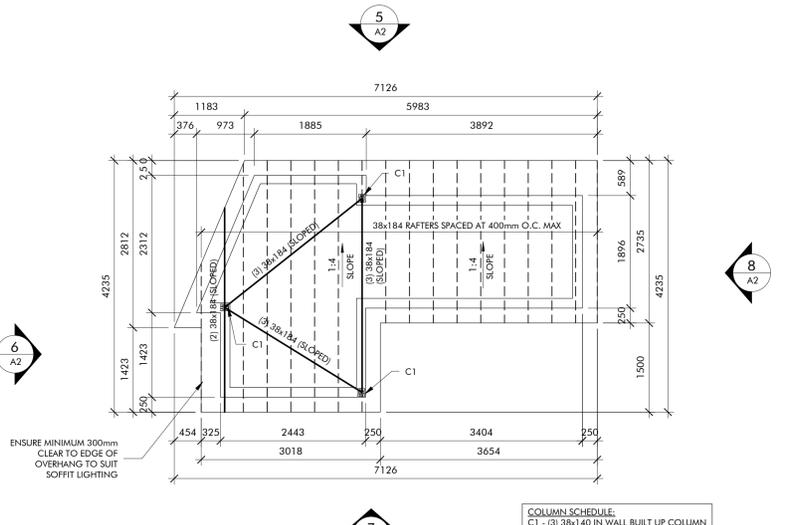
designed	J.A.	conçu
date	APRIL 2019	
drawn	J.A.	dessiné
date	APRIL 2019	
approved	W.S.	approuvé
date	APRIL 2019	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSC	
project number	181090	no. du projet
drawing no	A1	no. du dessin



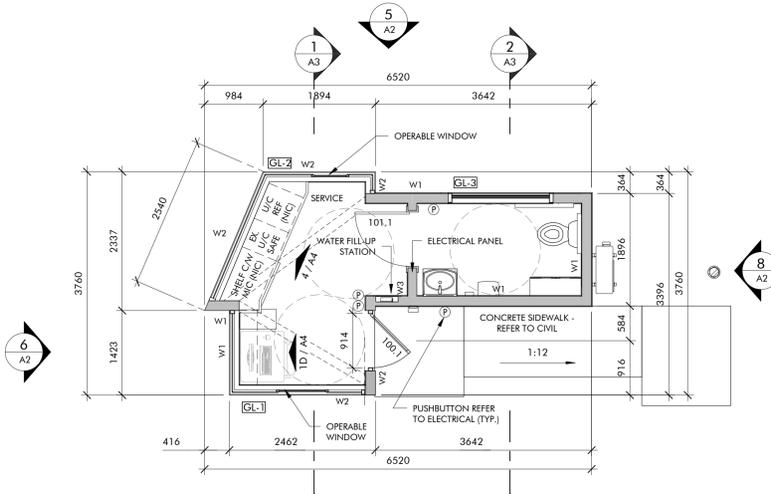
1 FOUNDATION PLAN
1:50



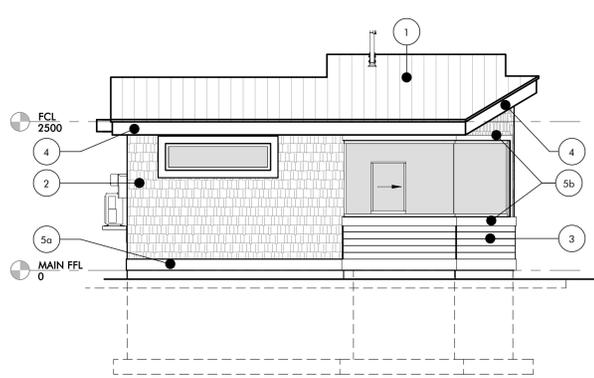
3 REFLECTED CEILING PLAN
1:50



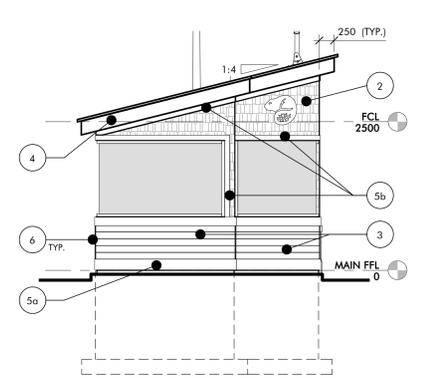
4 ROOF PLAN
1:50



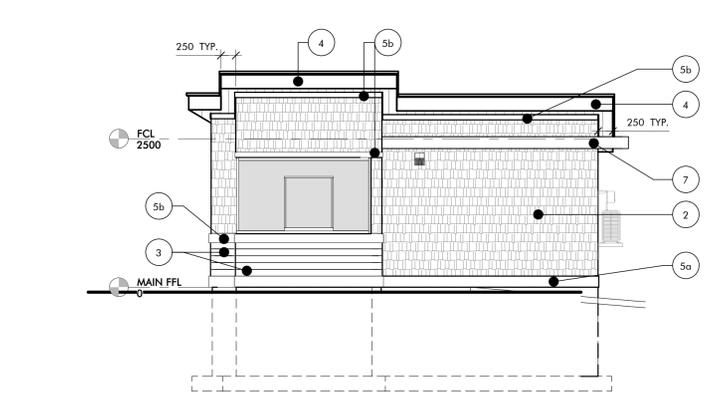
2 MAIN FLOOR PLAN
1:50



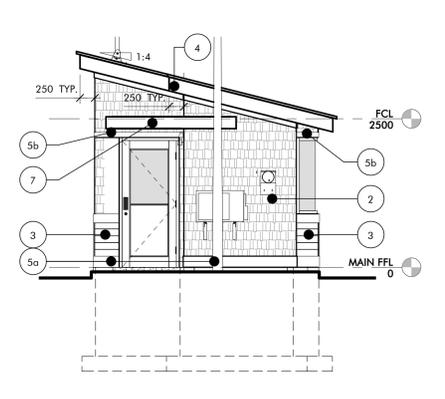
5 SOUTH ELEVATION
1:50



6 EAST ELEVATION
1:50



7 NORTH ELEVATION
1:50



8 WEST ELEVATION
1:50

LEGEND

NEW PARTITION (REFER TO FLOOR PLAN FOR WALL TYPE)

ROOM NAME UNIT TAG AND NUMBER

i1 DOOR TAG

w1 WALL TAG

1 HR FIRE RESISTANCE RATING (REFER TO WALL SCHEDULE)

2 HR FIRE RESISTANCE RATING (REFER TO WALL SCHEDULE)

⊕ BARRIER FREE PUSHBUTTON

FLOOR PLAN NOTES

1 ALL PENETRATIONS IN RATED PARTITIONS AND/OR FLOOR ASSEMBLIES FOR PLUMBING, DUCTING OR ELECTRICAL RUNS ARE TO BE SEALED. FIRE STOP IN ACCORDANCE WITH WALL AND/OR FLOOR TYPES. SUBMIT ULC DETAILS AND MATERIALS DURING SHOP DRAWING PROCESS FOR REVIEW PRIOR TO INSTALLATION.

2 VENT ALL FANS TO OUTSIDE AIR THROUGH VENT C/W HOOD.

3 DOORS, FRAMES AND HARDWARE TO MATCH WALL FIRE RESISTANCE RATING.

TYPE	DESCRIPTION	REMARKS
W1	- EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) - CEDAR BREATHER - CONTINUOUS NOVAWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W2	- EXTERIOR WOOD SIDING (REFER TO ELEVATIONS) - 19mm x 64mm WOOD STRAPPING - CEDAR BREATHER - CONTINUOUS NOVAWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W3	- 16mm GYPSUM WALL BOARD - PAINTED - 38mm x 150mm WOOD STUD - 16mm GYPSUM WALL BOARD - PAINTED	

TYPE	DESCRIPTION	REMARKS
R1	- VICWEST METAL ROOFING; PROFILE-TRADITION 100-4 COLOR-REGENT GRAY #56082 - FREE AND STICK NON-PERMEABLE MEMBRANCE - 5/8" PLYWOOD SHEATHING - 38mm x 184mm WOOD RAFTERS @ 400mm O.C. - R20 BATT INSULATION - 10mil POLYVAPOUR BARRIER - 19mm x 64mm WOOD STRAPPING - 16mm GYPSUM WALL BOARD PAINTED	

TYPE	DESCRIPTION	REMARKS
F1	- CERAMIC TILE FLOOR - 100mm REINFORCED CONCRETE SLAB - 10mil POLYVAPOUR BARRIER (TARED AND SEALED) - 100mm CLASS GRAVEL COMPACTED TO 100% SPMD - APPROVED UNDISTRUBBED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	

ELEVATION MATERIAL LEGEND	
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2	MAIBEC PREFINISHED CEDAR SHINGLE; MAIBEC TRADITIONAL COLOR: BAR-HARBOR NATURAL
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4	250mm MAIBEC WOOD FASCIA; COLOR - BRUSHED 001, ULTRA WHITE
5a	200mm MAIBEC WOOD FROST BOARD; COLOR - BRUSHED 001, ULTRA WHITE
5b	150mm MAIBEC WOOD TRIM; COLOR - BRUSHED 001, ULTRA WHITE
6	PREFINISHED METAL OUTSIDE CORNER - MAIBEC
7	CANOPY - REFER TO DETAILS

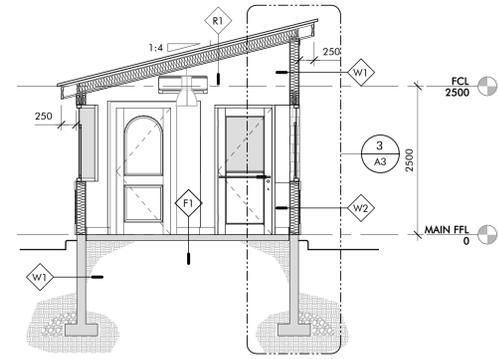


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revisions		date

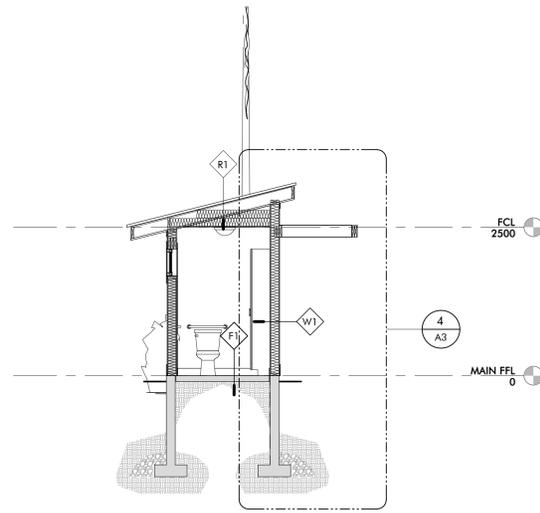
PARKS CANADA
AGENCY ENTRANCES
& KIOSKS BRACKLEY
BEACH, PE

PLANS AND
ELEVATIONS
(LARGE KIOSK)

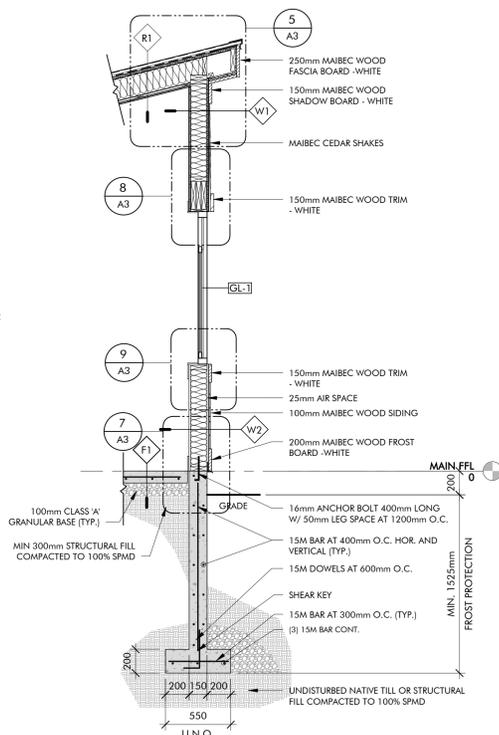
designed	J. A.	conçu
date	APRIL 2019	
drawn	J. A.	dessiné
date	APRIL 2019	
approved	W. S.	approuvé
date	APRIL 2019	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSC	
project number	181090	no. du projet
drawing no	A2	no. du dessin



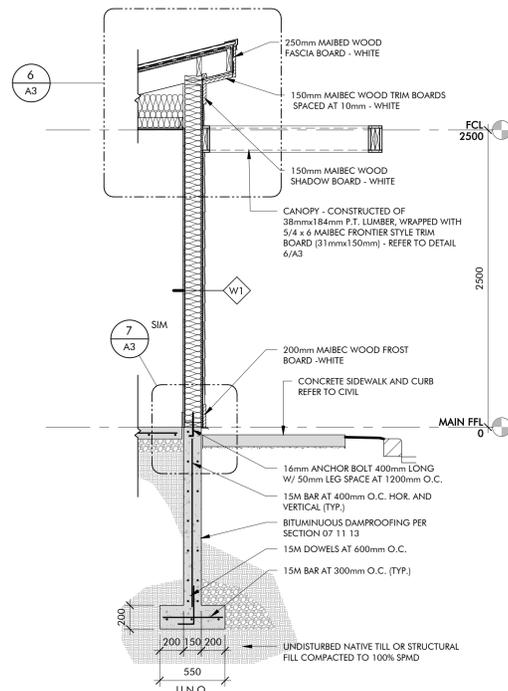
1 SECTION A
1:50



2 SECTION B
1:50



3 WALL SECTION A
1:25

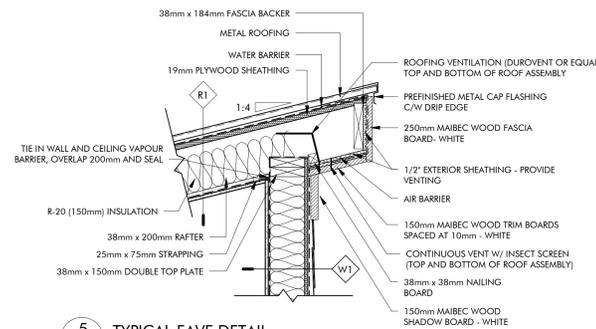


4 WALL SECTION B
1:25

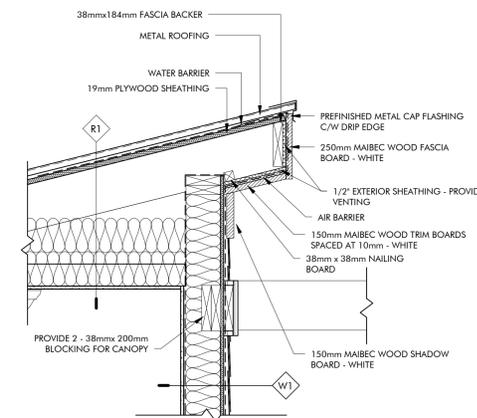
TYPE	DESCRIPTION	REMARKS
W1	- EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) - CEDAR BREATHER - CONTINUOUS NOVAWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W2	- EXTERIOR WOOD SIDING (REFER TO ELEVATIONS) - 19mm x 64mm WOOD STRAPPING - CEDAR BREATHER - CONTINUOUS NOVAWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W3	- 16mm GYPSUM WALL BOARD - PAINTED - 38mm x 150mm WOOD STUD - 16mm GYPSUM WALL BOARD - PAINTED	

TYPE	DESCRIPTION	REMARKS
R1	- VICWEST METAL ROOFING, PROFILE-TRADITION 100-4 COLOR: REGENT GRAY #56082 - PEEL AND STICK NON-PERMEABLE MEMBRANCE - 5/8" PLYWOOD SHEATHING - 38mm x 184mm WOOD RAFTERS @ 400mm O.C. - R20 BATT INSULATION - 10mil POLYVAPOUR BARRIER - 19mm x 64mm WOOD STRAPPING - 16mm GYPSUM WALL BOARD PAINTED	

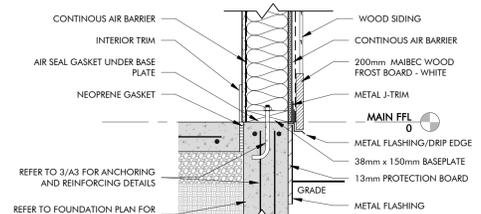
TYPE	DESCRIPTION	REMARKS
F1	- CERAMIC TILE FLOOR - 100mm REINFORCED CONCRETE SLAB - 10mil POLYVAPOUR BARRIER (TAPED AND SEALED) - 100mm CLASS GRAVEL COMPACTED TO 100% SPMD - APPROVED UNDISTURBED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	



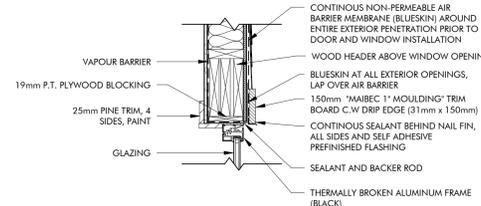
5 TYPICAL EAVE DETAIL
1:12



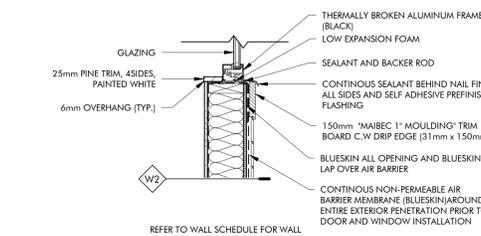
6 EAVE DETAIL #2
1:12



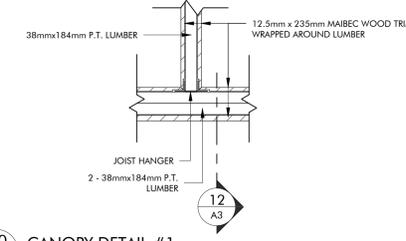
7 WALL TO FOUNDATION DETAIL
1:10



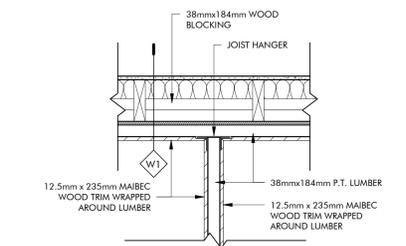
8 WINDOW HEAD DETAIL
1:12



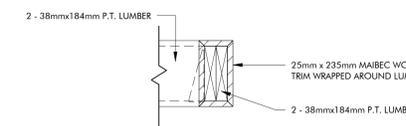
9 WINDOW SILL DETAIL
1:12



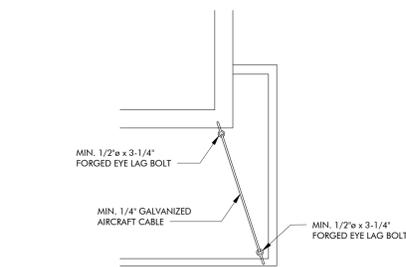
10 CANOPY DETAIL #1
1:10



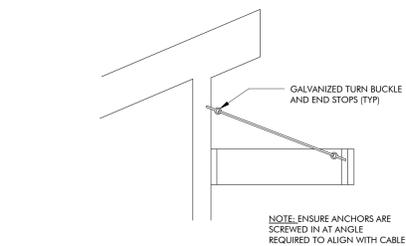
11 CANOPY DETAIL #2
1:10



12 CANOPY SECTION #1
1:10



13 CANOPY DETAIL 1
1:50



14 CANOPY DETAIL 2
1:50

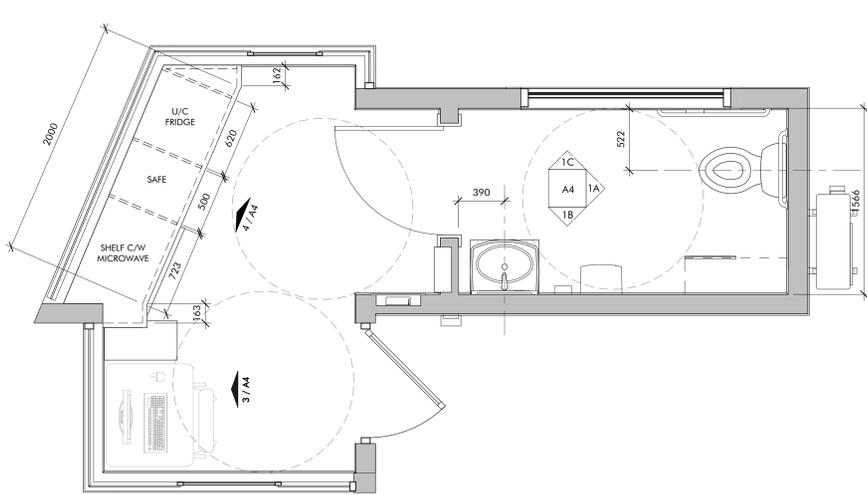


0	ISSUED FOR TENDER	04/25/2019
revisions		date

drawing project
**PARKS CANADA
AGENCY ENTRANCES
& KIOSKS BRACKLEY
BEACH, PE**

drawing dessin
**BUILDING
SECTIONS,
WALL
SECTIONS AND
DETAILS**

designed J.A.	conçu
date APRIL 2019	
drawn J.A.	dessiné
date APRIL 2019	
approved W.S.	approuvé
date APRIL 2019	
Tender	Soumission
PWGC Project Manager Administrateur de projets TPSC	
project number no. du projet	
181090	
drawing no. no. du dessin	
A3	



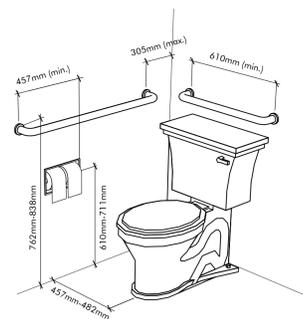
1 ENLARGED PLAN
A4 1:25

- CASEWORK NOTES**
- CABINETS INTERIOR TYPICAL: 19mm PLYWOOD, (WHITE) NO EXPOSED EDGES
 - CABINET DOORS, DRAWERS, GABLES & EXPOSED SHELVES TYPICAL: 19mm PLYWOOD WITH PLASTIC LAMINATE.
 - COUNTERTOP: 19mm PLYWOOD WITH PLASTIC LAMINATE. REFER TO MILLWORK DRAWINGS.
 - STANDARDS FOR SHELVES TO BE RECESSED.
 - HARDWARE AS PER SPECIFICATIONS
 - USE ONLY FULL P-LAM SHEETS WHERE POSSIBLE.
 - PROVIDE FULL WIDTH 19mm PLYWOOD DIVIDERS (HORIZONTALLY) BETWEEN EACH DRAWER. SHOWN ON DETAIL 4/A4.

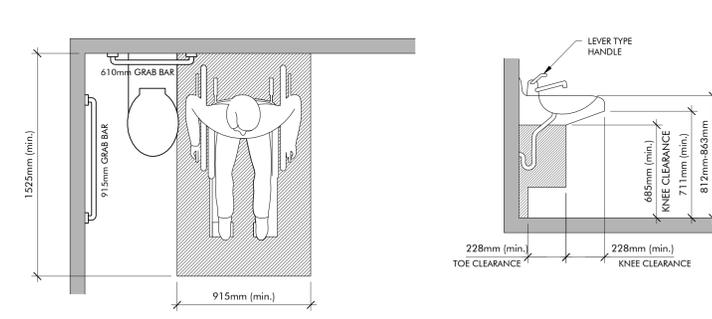
ACCESSORIES LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
GB1	610mm GRAB BAR	750mm-850mm
GB2	914mm GRAB BAR	750mm-850mm
M	MIRROR	BASE = 1000mm MAX
PD	PAPER TOWEL DISPENSOR	1000mm
SD	SOAP DISPENSOR	1000mm
TP	TOILET PAPER DISPENSOR	1000mm

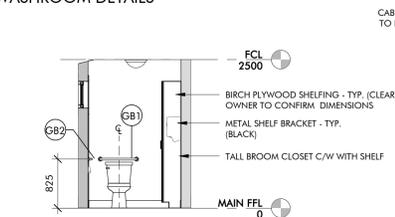
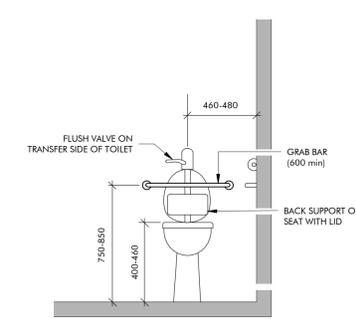
XX - "XX" = SYMBOL
NOTE: CONFIRM ALL ACCESSORIES COMPLY WITH CSA STANDARDS PRIOR TO INSTALLATION.



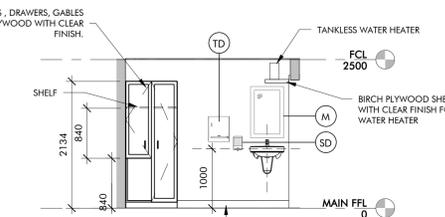
2 CSA BARRIER FREE WASHROOM DETAILS
A4 1:20



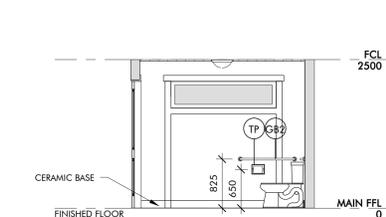
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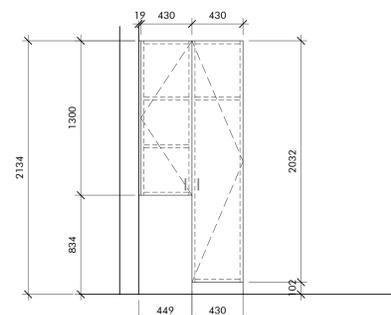
1A BATHROOM ELEVATION 'A'



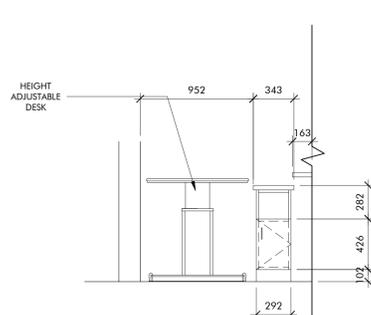
1B BATHROOM ELEVATION 'B'



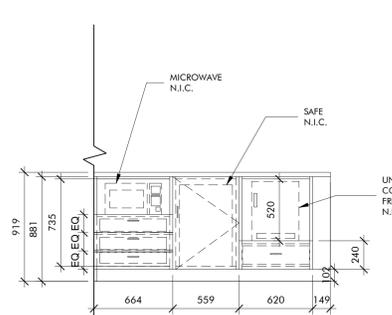
1C BATHROOM ELEVATION 'C'



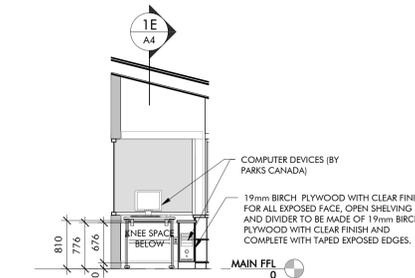
SHELF ELEVATION



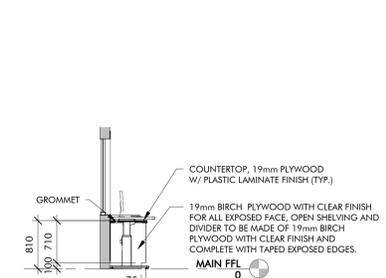
3 MILLWORK ELEVATION 1
A4 1:25



4 MILLWORK ELEVATION 2
A4 1:25



1D WORKSTATION ELEVATION 1



1E WORKSTATION SECTION

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR			WALLS								CEILINGS		
		MAT.	FIN.	BASE	NORTH		EAST		SOUTH		WEST		MAT.	FIN.	HEIGHT (mm)
100	WORKSTATION	CT	CT	CT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	REFER TO SECTION
101	BATH	CT	CT	CT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	2450mm AFF

ROOM FINISH ABBREVIATIONS

FLOOR			WALL			CEILING		
ABBR	DESCRIPTION	FINISH	ABBR	DESCRIPTION	FINISH	ABBR	DESCRIPTION	FINISH
CT	CERAMIC TILE		PT	PAINT		GWB	GYPSUM WALL BOARD - PAINTED	
			GWB	GYPSUM WALL BOARD - PAINTED		PT	PAINT	

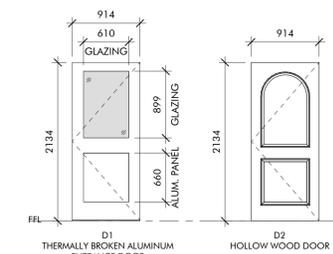
DOOR SCHEDULE AND FRAME SCHEDULE

DOOR NO.	TYPE	WIDTH (mm)	HEIGHT (mm)	DOOR				FRAME				COMMENTS
				THICKNESS (mm)	MATERIAL	FINISH	GLASS TYPE	MATERIAL	FINISH	MATERIAL	FINISH	
100.1	D-1	914	2134	51	ALUM	ANOD	GL-1	ALUM-TB	WD	PT		
101.1	D-2	914	2134	35	WD	PT		PS-TB	WD	PT		
102.1	D-3	813	2032	51	WD	PT		PS-TB	WD	PT		

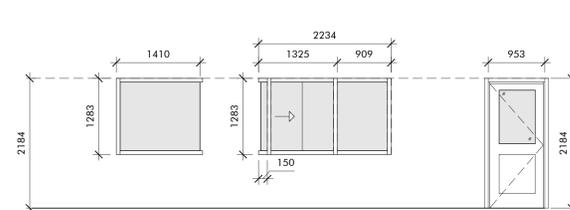
DOOR & FRAME SCHEDULE ABBREVIATIONS

ALUM	ALUMINUM
ANOD	ANODIZED
GL-I	INSULATED
GL-T	TEMPERED GLASS - CLEAR
PS	PRESS STEEL
PS-TB	PRESS STEEL - THERMALLY BROKEN
PT	PAINT

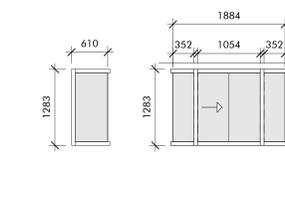
- D1 HARDWARE:
CONTINUOUS HINGE
MS LOCK W/ CYLINDER AND THUMBTURN
AUTO-CLOSER (BESAM)
8 1/2" OFFSET PULL HANDLE (1" DIAMETER)
TUBULAR PUSH BAR (1" DIAMETER)
SWEEPS
DOME FLOOR STOP
6 1/2" THERMAL THRESHOLD



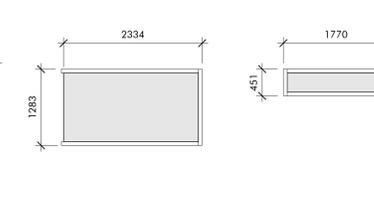
DOOR ELEVATIONS



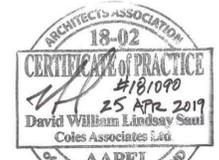
GL-1 GLAZING UNIT ELEVATION



GL-2 GLAZING UNIT ELEVATION



GL-3 GLAZING UNIT ELEVATION

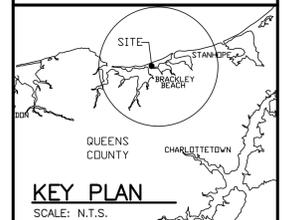


0	ISSUED FOR TENDER	04/25 2019
revisions		date

PARKS CANADA
AGENCY ENTRANCES
& KIOSKS BRACKLEY
BEACH, PE

WINDOW &
DOOR
SCHEDULES,
ELEVATIONS
AND MILLWORK

designed	J. A.	conçu
date	APRIL 2019	
drawn	J. A.	dessiné
date	APRIL 2019	
approved	W. S.	approuvé
date	APRIL 2019	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
	181090	
drawing no	no. du dessin	
	A4	



LEGEND

	EXISTING ASPHALT
	EXISTING ROAD MARKINGS
	WETLANDS
	EXISTING TOP OF BANK
	EXISTING BOTTOM OF BANK
	EXISTING BUILDING OUTLINE
	EXISTING U/G ELECTRICAL
	EXISTING WATER LINE
	EXISTING CULVERT
	PROPOSED GRADE
	EXISTING FLAG POLE
	EXISTING FLASHING LIGHT
	EXISTING TRAFFIC LIGHT
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	ASPHALT TO BE DEMOLISHED
	TREED AREA TO BE CLEARED
	SHRUBBERY/TREED AREA TO BE CLEARED



0	ISSUED FOR TENDER	04/25/2019
revisions		date

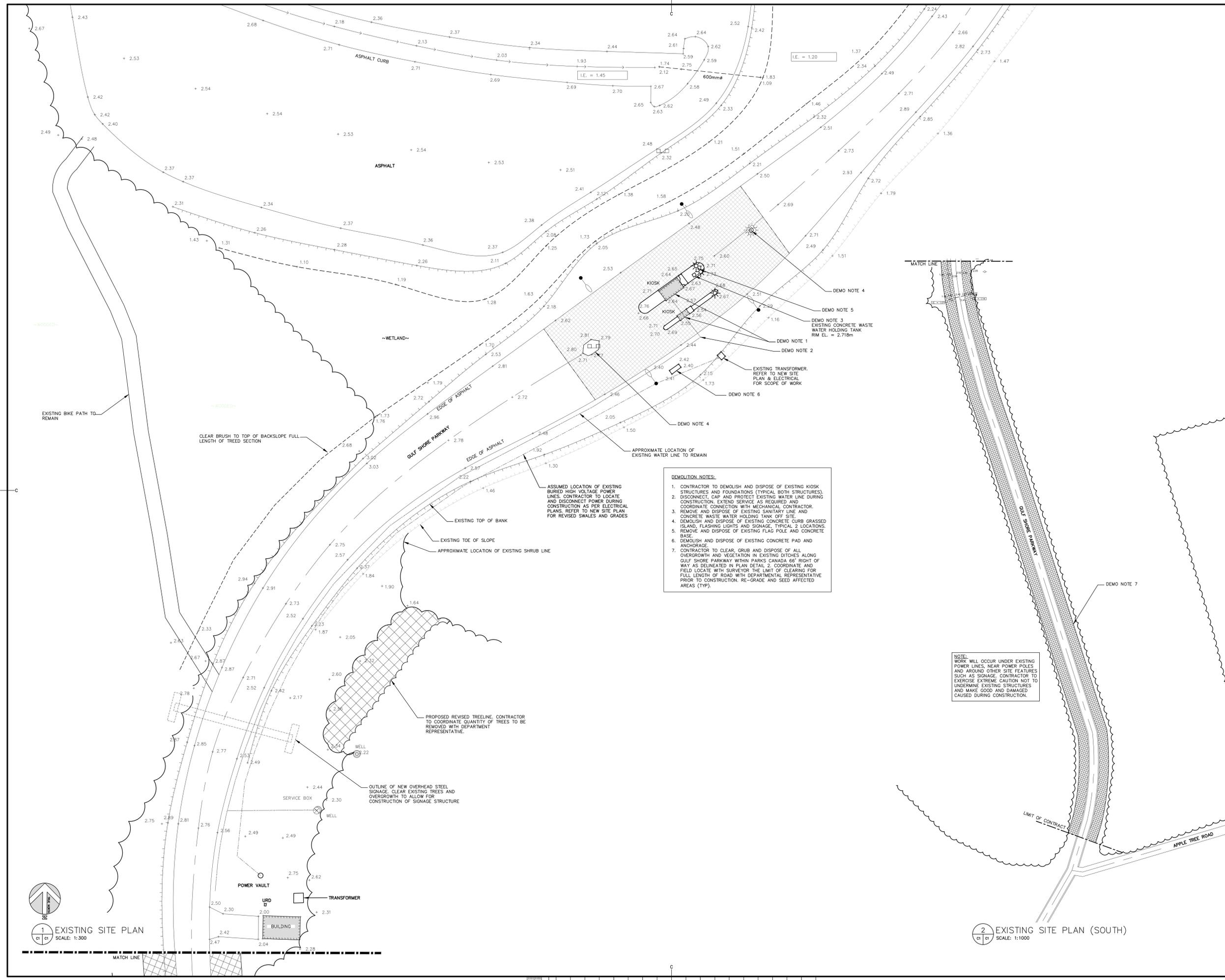
project
**PARKS CANADA AGENCY
 ENTRANCES & KIOSKS
 BRACKLEY BEACH
 BRACKLEY BEACH, PE**

drawing **EXISTING SITE PLAN & NOTES** dessin

designed SPM, E.I.T.	conçu
date April 2019	
drawn SPM, E.I.T.	dessiné
date April 2019	
approved NL, P.Eng	approuvé
date April 2019	
Tender	Soumission

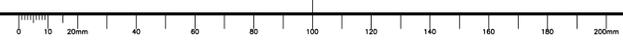
PCA Project Manager Administrateur de projets APC
 project number **181090** no. du projet

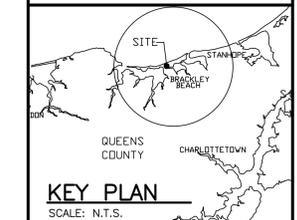
drawing no. **C1** no. du dessin



1 EXISTING SITE PLAN
 SCALE: 1:300

2 EXISTING SITE PLAN (SOUTH)
 SCALE: 1:1000





LEGEND

	EXISTING ASPHALT
	NEW ASPHALT
	EXISTING ROAD MARKINGS
	NEW ROAD MARKINGS
	WETLANDS
	EXISTING TOP OF BANK
	NEW TOP OF BANK
	EXISTING BOTTOM OF BANK
	NEW BOTTOM OF BANK
	EXISTING U/G ELECTRICAL
	EXISTING WATER LINE
	NEW BUILDING OUTLINE
	EXISTING CULVERT
	EXISTING GRADE
	PROPOSED GRADE
	NEW FLAG POLE
	NEW FLASHING AMBER
	EXISTING POWER POLE
	NEW LIGHT POST
	ASPHALT FINISH
	CONCRETE
	LANDSCAPED FINISH



0	ISSUED FOR TENDER	04/25/2019
revisions		date
project		project

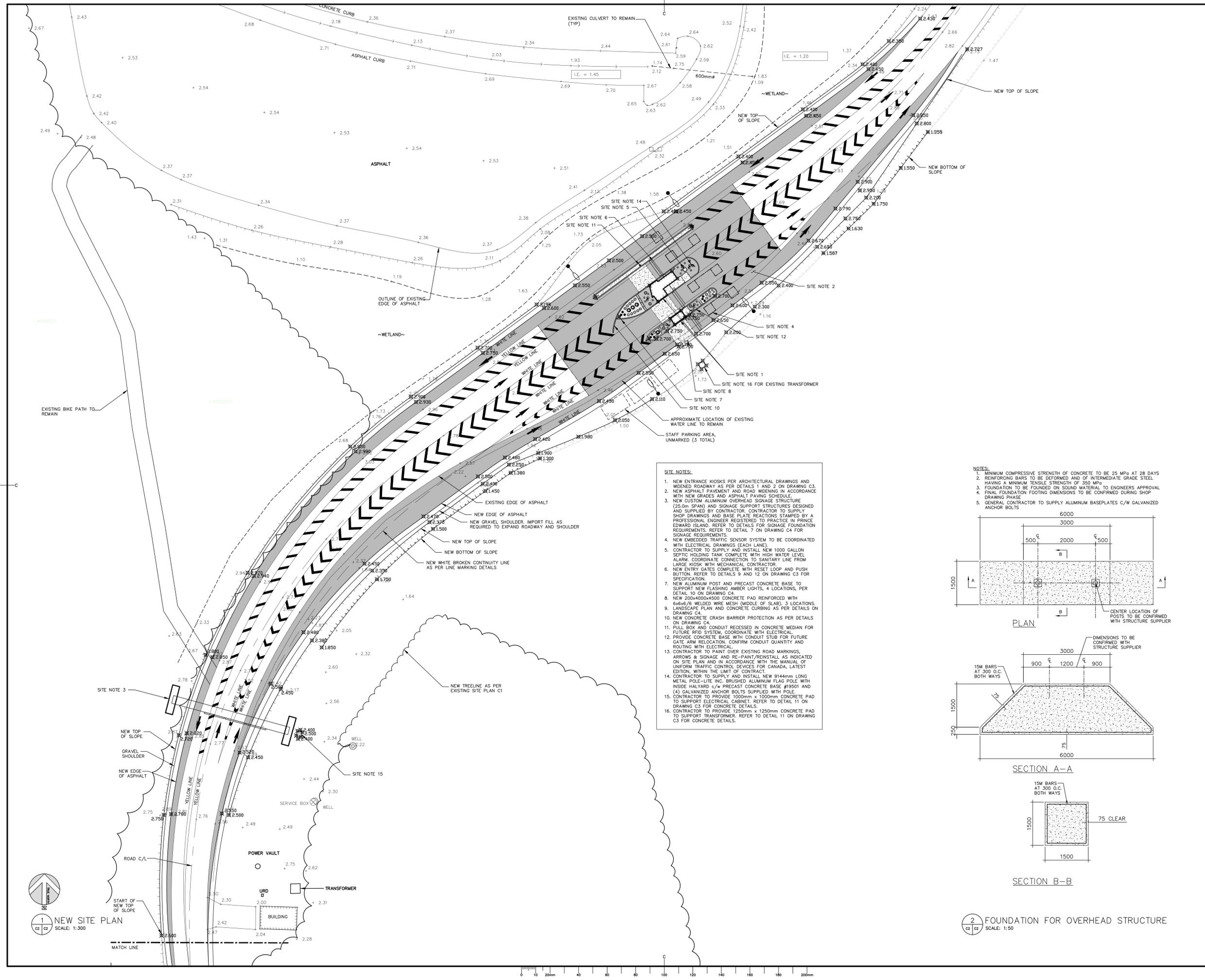
**PARKS CANADA AGENCY
 ENTRANCES & KIOSKS
 BRACKLEY BEACH,
 BRACKLEY BEACH, PE**

**NEW SITE PLAN,
 DETAILS & NOTES**

designed	SPM, E.I.T.	conçu
date	April 2019	
drawn	SPM, E.I.T.	dessiné
date	April 2019	
approved	NL, P.Eng	approuvé
date	April 2019	
Tender		Soumission

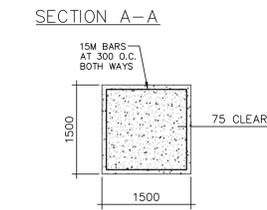
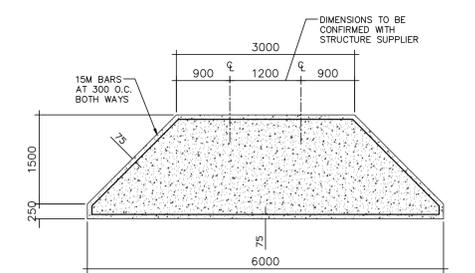
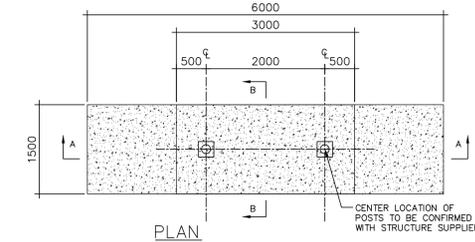
PCA Project Manager Administrateur de projets APC
 project number no. du projet
181090

drawing no. no. du dessin
C2

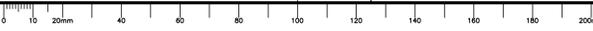


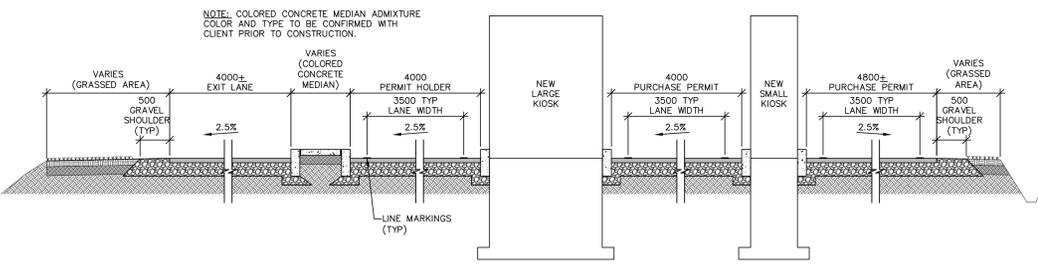
- SITE NOTES:**
- NEW ENTRANCE KIOSKS PER ARCHITECTURAL DRAWINGS AND WIDENED ROADWAY AS PER DETAILS 1 AND 2 ON DRAWING C3.
 - NEW ASPHALT PAVEMENT AND ROAD WIDENING IN ACCORDANCE WITH NEW GRADES AND ASPHALT PAVING SCHEDULE.
 - NEW CUSTOM ALUMINUM OVERHEAD SIGNAGE STRUCTURE (25.0m SPAN) AND SIGNAGE SUPPORT STRUCTURES DESIGNED AND SUPPLIED BY CONTRACTOR. CONTRACTOR TO SUPPLY SHOP DRAWINGS AND BASE PLATE REACTIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN PRINCE EDWARD ISLAND. REFER TO DETAILS FOR SIGNAGE FOUNDATION REQUIREMENTS. REFER TO DETAIL 7 ON DRAWING C4 FOR SIGNAGE REQUIREMENTS.
 - NEW EMBEDDED TRAFFIC SENSOR SYSTEM TO BE COORDINATED WITH ELECTRICAL DRAWINGS (EACH LANE).
 - CONTRACTOR TO SUPPLY AND INSTALL NEW 1000 GALLON SEPTIC HOLDING TANK COMPLETE WITH HIGH WATER LEVEL ALARM. COORDINATE CONNECTION TO SANITARY LINE FROM LARGE KIOSK WITH MECHANICAL CONTRACTOR.
 - NEW ENTRY GATES COMPLETE WITH RESET LOOP AND PUSH BUTTON. REFER TO DETAILS 9 AND 12 ON DRAWING C3 FOR SPECIFICATION.
 - NEW ALUMINUM POST AND PRECAST CONCRETE BASE TO SUPPORT NEW FLASHING AMBER LIGHTS, 4 LOCATIONS, PER DETAIL 10 ON DRAWING C4.
 - NEW 200x400x4500 CONCRETE PAD REINFORCED WITH 6x6x6/6 WELDED WIRE MESH (MIDDLE OF SLAB), 3 LOCATIONS.
 - LANDSCAPE PLAN AND CONCRETE CURBING AS PER DETAILS ON DRAWING C4.
 - NEW CONCRETE CRASH BARRIER PROTECTION AS PER DETAILS ON DRAWING C4.
 - PULL BOX AND CONDUIT RECESSED IN CONCRETE MEDIAN FOR FUTURE RFID SYSTEM. COORDINATE WITH ELECTRICAL.
 - PROVIDE CONCRETE BASE WITH CONDUIT STUB FOR FUTURE GATE ARM RELOCATION. CONFIRM CONDUIT QUANTITY AND ROUTING WITH ELECTRICAL.
 - CONTRACTOR TO PAINT OVER EXISTING ROAD MARKINGS, ARROWS & SIGNAGE AND RE-PAIN/REINSTALL AS INDICATED ON SITE PLAN AND IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA, LATEST EDITION, WITHIN THE LIMIT OF CONTRACT.
 - CONTRACTOR TO SUPPLY AND INSTALL NEW 9144mm LONG METAL POLE-LITE INC. BRUSHED ALUMINUM FLAG POLE WITH INSIDE HALYARD c/a PRECAST CONCRETE BASE #19501 AND (4) GALVANIZED ANCHOR BOLTS SUPPLIED WITH POLE.
 - CONTRACTOR TO PROVIDE 1000mm x 1000mm CONCRETE PAD TO SUPPORT ELECTRICAL CABINET. REFER TO DETAIL 11 ON DRAWING C3 FOR CONCRETE DETAILS.
 - CONTRACTOR TO PROVIDE 1250mm x 1250mm CONCRETE PAD TO SUPPORT TRANSFORMER. REFER TO DETAIL 11 ON DRAWING C3 FOR CONCRETE DETAILS.

- NOTES:**
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TO BE 25 MPa AT 28 DAYS
 - REINFORCING BARS TO BE DEFORMED AND OF INTERMEDIATE GRADE STEEL HAVING A MINIMUM TENSILE STRENGTH OF 350 MPa
 - FOUNDATION TO BE FOUNDED ON SOUND MATERIAL TO ENGINEERS APPROVAL
 - FINAL FOUNDATION FOOTING DIMENSIONS TO BE CONFIRMED DURING SHOP DRAWING PHASE
 - GENERAL CONTRACTOR TO SUPPLY ALUMINUM BASEPLATES C/W GALVANIZED ANCHOR BOLTS

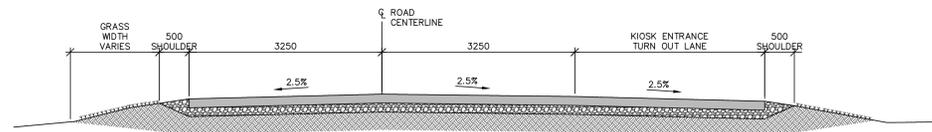


FOUNDATION FOR OVERHEAD STRUCTURE
 SCALE: 1:50

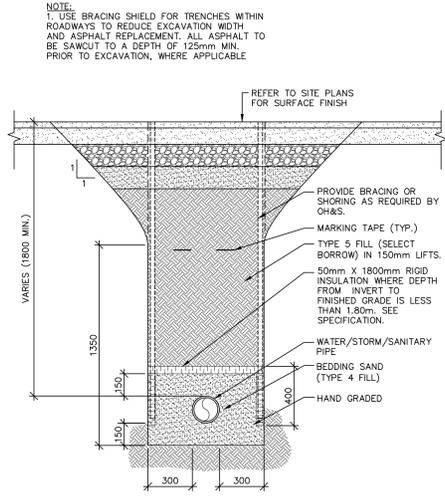




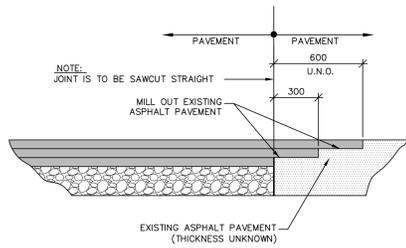
1 SECTION: ROADWAY AT KIOSK/MEDIANS (TYPICAL)
1:50



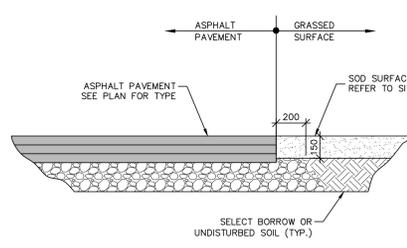
2 SECTION: ROADWAY (TYPICAL)
1:50



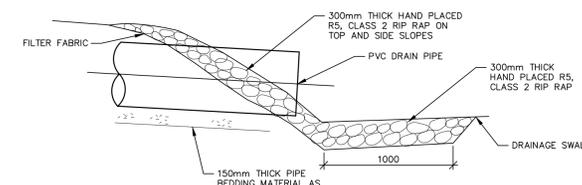
3 SECTION: TYPICAL TRENCH
1:20



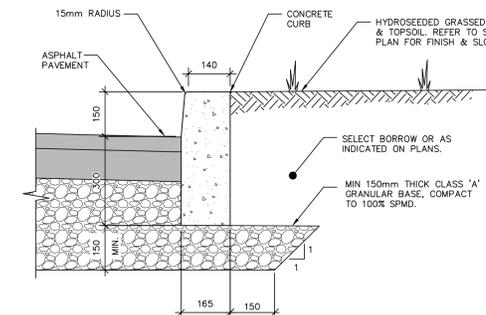
4 ASPHALT PAVEMENT DETAIL JOINT AT EXISTING / NEW
1:20



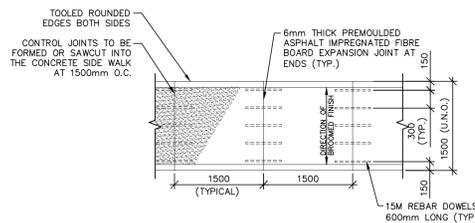
5 ASPHALT PAVEMENT DETAIL JOINT AT GRASS / NEW
1:20



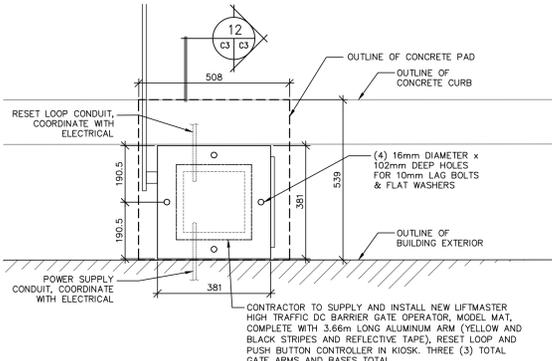
6 DETAIL: RIP RAP AT PIPE ENDS
1:10



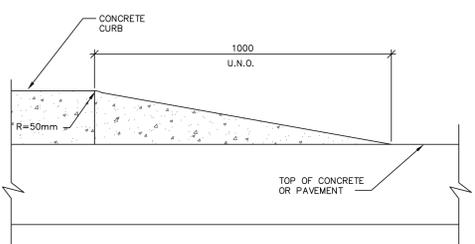
7 SECTION: CONCRETE BARRIER CURB
1:10



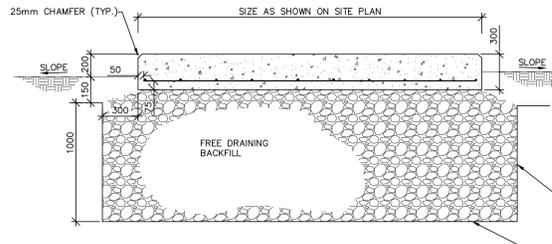
8 CONCRETE SIDEWALK PLAN
1:50



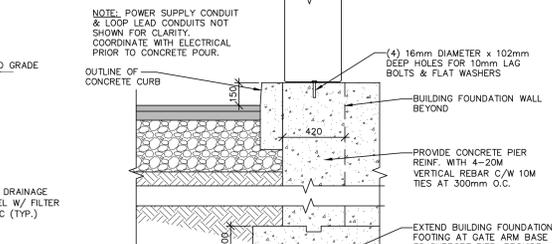
9 PLAN: GATE ARM BASE
1:10



10 DETAIL: END OF CONCRETE CURB
1:10



11 SECTION: TYPICAL CONCRETE PAD
NTS



12 SECTION: GATE ARM BASE
1:20

GENERAL NOTES:

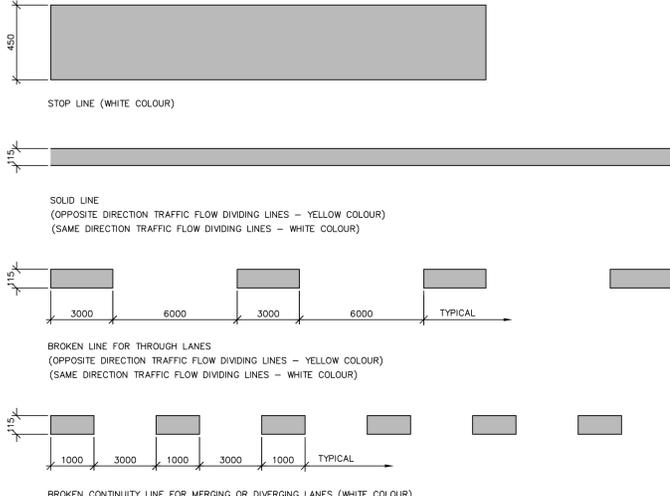
- CONTRACTOR MUST VISIT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS.
- VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS U.N.O.
- THESE DRAWINGS SHALL BE VIEWED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES AND SERVICES (SHOWN OR NOT SHOWN ON DRAWINGS) IN THE FIELD WITHIN THE CONTRACT LIMIT. INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY.
- UNDERGROUND WATER, SEWER, TELEPHONE AND POWER SERVICES EXIST BENEATH THE SITE. EXERCISE CAUTION IN EXCAVATION AND PROTECT FACILITIES FROM DAMAGE. CONTRACTOR TO REPAIR DAMAGES AT NO COST TO THE OWNER. WORK SHALL BE CARRIED OUT TO THE SATISFACTION OF THESE AUTHORITIES. CONTACT UTILITIES BEFORE EXCAVATING.
- PRIOR TO COMMENCING WORK, COORDINATE AND OBTAIN APPROVAL FROM THE CITY OF CHARLOTTETOWN FOR CONNECTING TO EXISTING WATER & SEWER SERVICES AS REQUIRED.
- PRIOR TO CONSTRUCTION, CONTRACTOR MUST REVIEW THE DEPTH OF ALL NEW UNDERGROUND SERVICES AND ADJUST DEPTH OF ALL SERVICES INCLUDING WATER, SANITARY SEWER, STORM SEWER, 11/2 ELECTRICAL & COMMUNICATION, WHERE INTERFERENCE OCCURS. ADVISE & OBTAIN APPROVAL FROM CONSULTANT BEFORE PROCEEDING WITH ANY CHANGES. COSTS ASSOCIATED WITH THIS TO BE INCLUDED IN TENDER PRICE.
- THE CONTRACTOR TO INCLUDE IN THE CONTRACT PRICE COSTS ASSOCIATED WITH OVER EXCAVATION, BACKFILLING AND REINSTATEMENT DUE TO POSSIBLE MISALIGNED EXISTING UNDERGROUND SERVICES.
- PROVIDE TEMPORARY SUPPORT TO UTILITY POLES AS REQ'D BY THE UTILITIES. FINAL LOCATIONS OF RELOCATED UTILITY POLES TO BE CO-ORDINATED ON-SITE BETWEEN CONTRACTOR & UTILITIES. ENSURE NEW OVERHEAD WIRE PATHS MEET ALL REQUIRED CLEARANCES AS REQUIRED BY CHKS.
- THE WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION AND APPLICABLE STANDARDS, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- PERFORM WORK AND COMPLY WITH ALL FEDERAL, PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
- COMPLY WITH ALL ENVIRONMENTAL REGULATIONS & PROVIDE ALL NECESSARY ENVIRONMENTAL PROTECTION INCLUDING SILT FENCES, SEDIMENT TRAPS, CHECK DAMS, DUST CONTROL, ETC.
- THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN TWO WAY TRAFFIC AT ALL TIMES DURING THIS CONTRACT AND ACCESS FOR EMERGENCY VEHICLES ON CONSTRUCTION SITE. PROVIDE SIGNS, BARRICADES, FLAGGERS AS PER APPLICABLE REGULATIONS. PROVIDE TEMPORARY TRAFFIC LIGHTS WHEN TRAFFIC REDUCED TO ONE LANE ONLY.
- ALL TRENCHES MUST BE BACKFILLED AT THE END OF EACH DAY.
- REPAIR & REINSTATE DISTURBED ASPHALT PAVEMENT, GRASSED & LANDSCAPED AREAS, SIGNS, RETAINING WALLS, ETC., DAMAGED BY WORK OF CONTRACT INCLUDING ALL AREAS IMPACTED BEYOND LIMIT OF CONTRACT. TOPSOIL & SEED/SOD (AS DIRECTED) ALL GRASSED SURFACES U.N.O.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE NEW BILLET AND SHALL CONFORM TO CSA G30.18
- MIN REINFORCING STEEL YIELD STRENGTH SHALL BE 400MPa
- ALL REINFORCING STEEL SHALL BE DETAILED, CUT, BENT, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, ULTIMATE STRENGTH DESIGN
- THE GENERAL CONTRACTOR SHALL INSPECT ALL THE REINFORCING STEEL BEFORE PLACEMENT OF THE CONCRETE.
- THE GENERAL CONTRACTOR SHALL NOTIFY THE CONSULTANT 24 HOURS PRIOR TO THE PLACEMENT OF THE CONCRETE.
- THE POSITION OF ALL REINFORCING STEEL SHALL BE MAINTAINED DURING THE POURING OPERATION BY DIRECT SUPERVISION OF THE REINFORCING STEEL CONTRACTOR.

CONCRETE

- CONCRETE COMPRESSIVE STRENGTH MIN 32MPa @ 28 DAYS (U.N.O.) REFER TO SPECIFICATIONS.
- ALL CONCRETE SHALL CONFORM TO CSA A23.2
- ALL TESTING SHALL CONFORM TO CSA A23.2M AND RECORD THE TEST FOR SLUMP, AIR CONTENT AND COMPRESSIVE STRENGTH
- NO CONCRETE SHALL BE POURED WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF CONSULTANT.
- CONCRETE PROTECTIVE COVER (EXCEPT AS NOTED)
 - a) POURED AGAINST THE GROUND - 75mm
 - b) FORMED SURFACE AGAINST GROUND - 50mm
 - c) FORMED SURFACE EXPOSED TO WEATHER - 50mm
- GREENINGS SHALL BE PROVIDED AS SHOWN ON DRAWINGS. ANY ADDITIONAL OPENINGS MUST BE APPROVED BY ENGINEER.
- LEAVE FORMWORK IN PLACE FOR THE FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE FOR 3 DAYS FOR FOOTINGS.
- REMOVE ALL FINIS, RIDGES AND OTHER PROJECTIONS FROM EXTERIOR FACE OF CONCRETE FOUNDATION WALLS TO PROVIDE SMOOTH SURFACE FOR INSTALLING DAMPROOFING.



13 PAINTED LINE MARKINGS (TYP.)
NTS

ENVIRONMENTAL PROTECTION NOTES:

- INSTALLATION OF ENVIRONMENTAL CONTROLS SHALL BE A FIRST STEP IN THE CONSTRUCTION SEQUENCE, THEIR DESIGN, INSTALLATION AND MAINTENANCE SHALL BE AS PER THE CANADIAN ENVIRONMENTAL PROTECTION ACT AND PROJECT SPECIFICATIONS.
- CONSTRUCT AND INSTALL AT TOE OF SLOPE AROUND PERIMETER OF ALL TEMPORARY AND PERMANENT CONSTRUCTION AREAS INCLUDING AROUND STOCKPILES OF FILL SILT FENCES & EROSION CONTROL DEVICES. ALL ENVIRONMENTAL CONTROLS (E.G. SILT FENCES, CHECK DAMS, SEDIMENT COLLECTION PONDS, ETC.) SHALL BE IN PLACE PRIOR TO, DURING AND AFTER PROJECT ACTIVITIES TO AVOID OFFSITE SILTATION.
- ENSURE THAT ALL SILT FENCES ARE IN PLACE AND MAINTAINED ON A DAILY BASIS TO PREVENT SEDIMENTS FROM THE WORK AREAS FROM ENTERING ANY WATER COURSE OR CATCH BASINS. MAINTAIN FENCE AT ALL TIMES AND REPLACE IF DAMAGED. REMOVE ACCUMULATED SEDIMENTS TO PREVENT BLOCKAGE OF FENCES AND DAMS OR AS DIRECTED BY CONSULTANT. REMOVE AND REPLACE EROSION CONTROL STRUCTURES WHEN THEY BECOME CLOGGED WITH SOIL PARTICLES OR AS DIRECTED BY ENGINEER REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION ACTIVITIES AT OR BEFORE THE END OF EACH WORKING DAY.
- INSTALL SEDIMENT COLLECTION POND AT END OF THE OUTFALL & AT THE END OF THE DITCHES TO FILTER SEDIMENT FROM SURFACE RUNOFF BEFORE IT IS DISCHARGED TO WATERCOURSE.
- ENSURE THAT RUNOFF IS DIRECTED THROUGH SEDIMENT COLLECTION PONDS.
- DO NOT DISTURB EXISTING VEGETATION ANY MORE THAN NECESSARY TO COMPLETE EACH PHASE OF THE PROJECT.
- INSTALL A LAYER OF MULCH OR AN EROSION CONTROL BLANKET TO ALL EXPOSED SLOPES THAT IS NOT IMMEDIATELY UNDER CONSTRUCTION APPLIED AND MAINTAINED UNTIL THE AREA IS READY TO BE COMPLETED, SHAPED AND STABILIZED WITH SEEDING, SOD OR RIP-RAP.
- APPLY GRAVEL TO THE ROADWAY BED AS SOON AS POSSIBLE.
- SEED/SOD ALL EXPOSED AND BARREN SOIL AS SOON AS POSSIBLE.
- THIS PROJECT MUST COMPLY WITH THE REQUIREMENTS OF THE PEI DEPARTMENT OF ENVIRONMENT CERTIFICATE OF APPROVAL, CITY OF CHARLOTTETOWN UTILITY SERVICE AGREEMENT AND OTHER APPLICABLE PERMITS.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH PEI OCCUPATIONAL HEALTH & SAFETY ACT, FEDERAL, PROVINCIAL & MUNICIPAL BY-LAWS & REGULATIONS.
- ENVIRONMENTAL PROTECTION MEASURES SHALL BE CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT & AUTHORITIES HAVING JURISDICTION AND THE COST OF ALL THESE DEVICES & MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE.
- REPORT ANY DOUBTFUL CONDITIONS REQUIRING DECISIONS & SECURE DIRECTIONS FROM THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS TO HAVE ON HAND, THE APPROPRIATE EMERGENCY RESPONSE PHONE NUMBERS AND CONTACTS TO ALERT THE APPROPRIATE AUTHORITIES OF POSSIBLE CONTAMINATION SHOULD A SPILL OCCUR.



0	ISSUED FOR TENDER	04/25/2019
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revisions		date
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project		project
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**PARKS CANADA AGENCY
ENTRANCES & KIOSKS
BRACKLEY BEACH
BRACKLEY BEACH, PE**

drawing		design
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SITE DETAILS & NOTES

designed	SPM, E.I.T.	conçu
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date	April 2019	
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drawn	SPM, E.I.T.	dessiné
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date	April 2019	
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approved	N.L., P.Eng	approuvé
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date	April 2019	
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Tender		Submission
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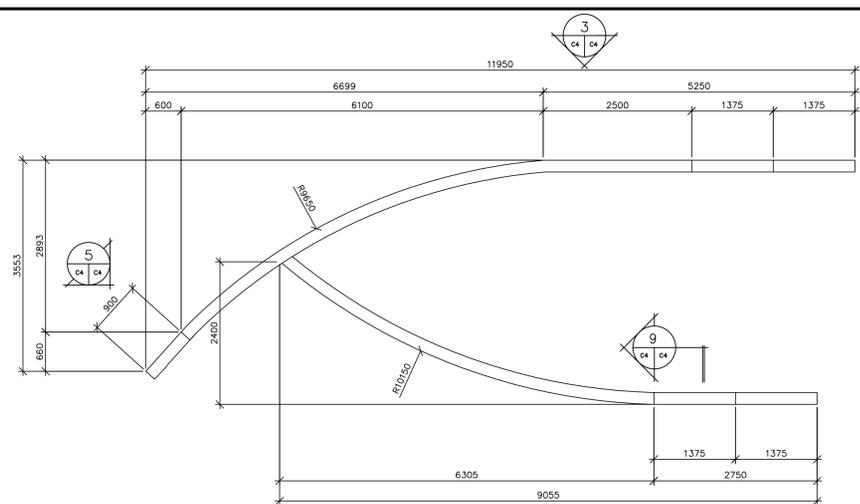
PCA Project Manager	Administrateur de projets APC	
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project number		no. du projet
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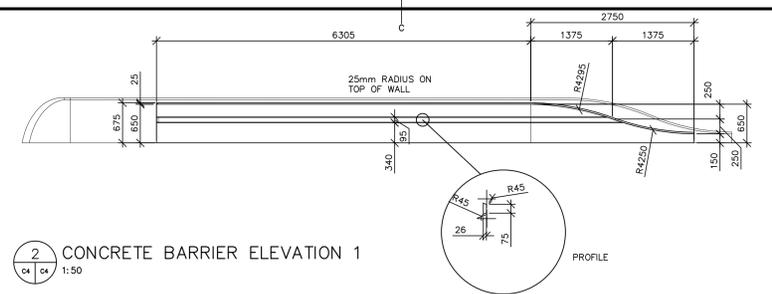
181090

drawing no.		no. du dessin
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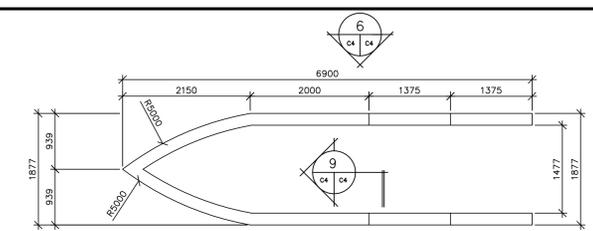
C3



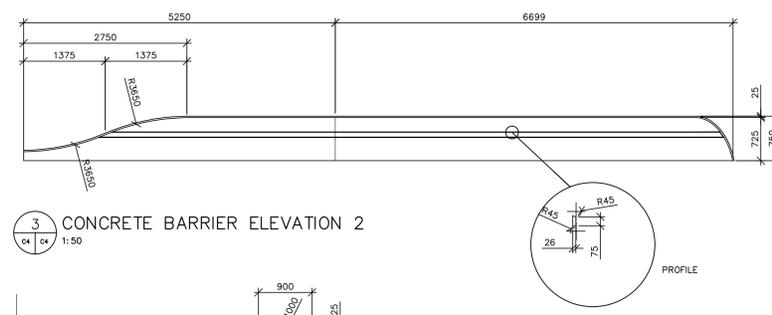
1 CONCRETE BARRIER PLAN
1:50



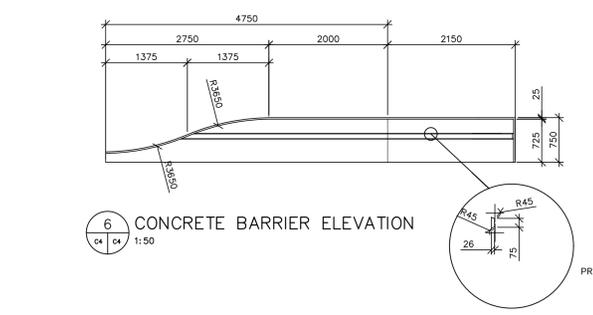
2 CONCRETE BARRIER ELEVATION 1
1:50



5 CONCRETE BARRIER PLAN (SMALL KIOSK)
1:50



3 CONCRETE BARRIER ELEVATION 2
1:50



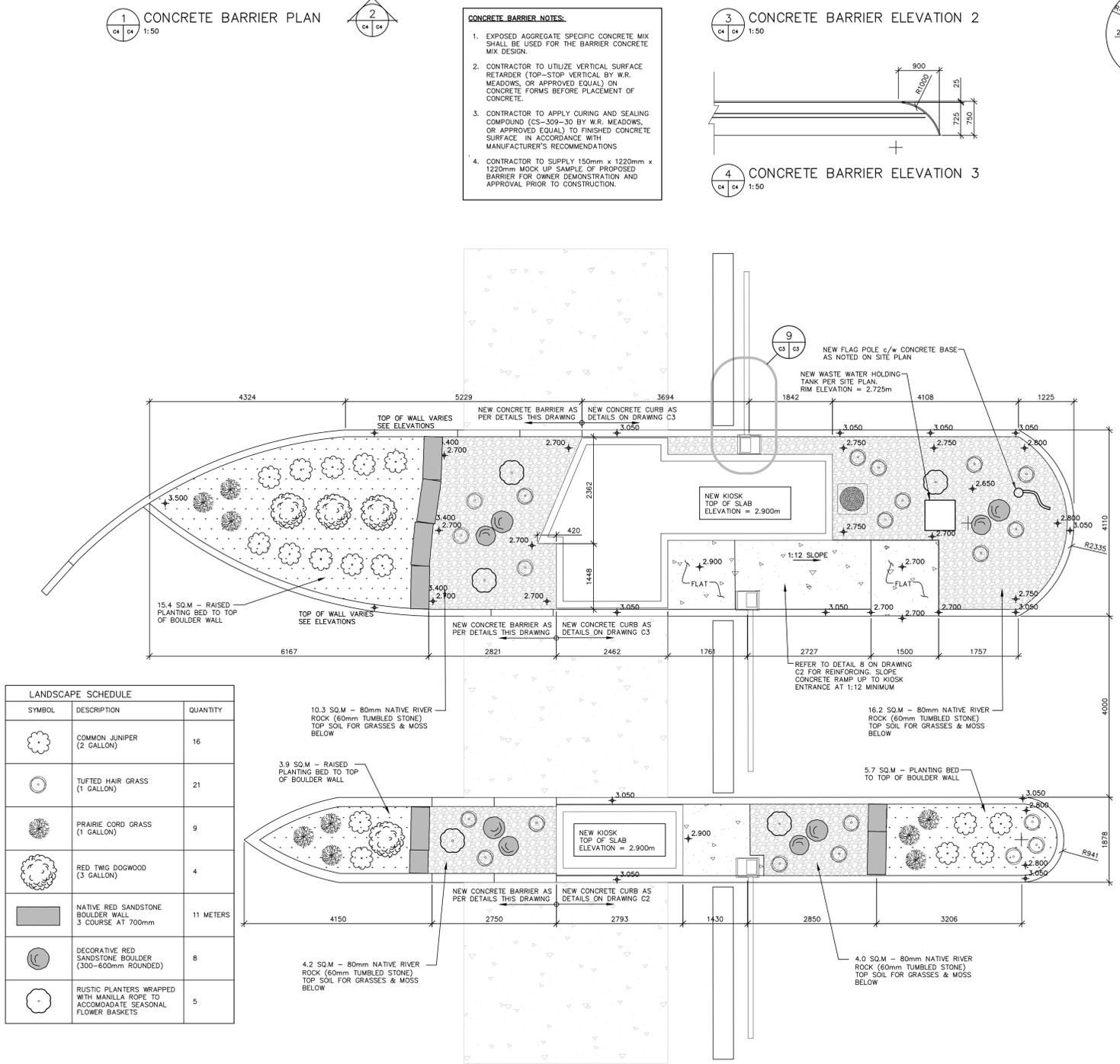
6 CONCRETE BARRIER ELEVATION
1:50

- CONCRETE BARRIER NOTES:**
1. EXPOSED AGGREGATE SPECIFIC CONCRETE MIX SHALL BE USED FOR THE BARRIER CONCRETE MIX DESIGN.
 2. CONTRACTOR TO UTILIZE VERTICAL SURFACE RETARDER (TOP-STOP VERTICAL BY W.R. MEADOWS, OR APPROVED EQUAL) ON CONCRETE FORMS BEFORE PLACEMENT OF CONCRETE.
 3. CONTRACTOR TO APPLY CURING AND SEALING COMPOUND (CS-309-30 BY W.R. MEADOWS, OR APPROVED EQUAL) TO FINISHED CONCRETE SURFACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. CONTRACTOR TO SUPPLY 150mm x 1220mm x 1220mm MOCK UP SAMPLE OF PROPOSED BARRIER FOR OWNER DEMONSTRATION AND APPROVAL PRIOR TO CONSTRUCTION.



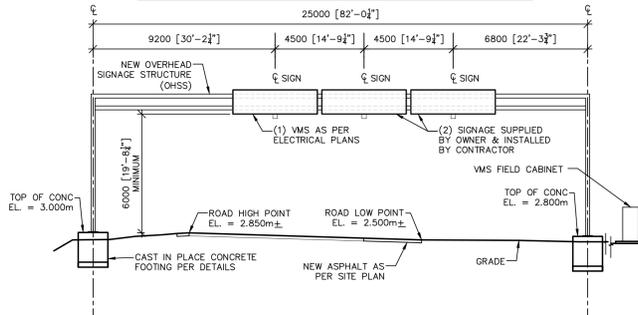
4 CONCRETE BARRIER ELEVATION 3
1:50

- OHS NOTES:**
1. DESIGN AND CONSTRUCTION OF OHS SHALL MEET CAN/CSA S157-05.
 2. VMS UNIT IS 1.219m WIDE x 4.267m LONG x 0.406m THICK AND WEIGH 1000LBS MAX. COORDINATE WITH FINAL VMS SHOP DRAWINGS AND CONFIRM LOADING WITH CONSULTANT PRIOR TO FABRICATION.
 3. ALL VMS MOUNTING HARDWARE SHALL BE SUPPLIED BY THE GENERAL CONTRACTOR. COORDINATE WITH VMS SUPPLIER SHOP DRAWINGS.

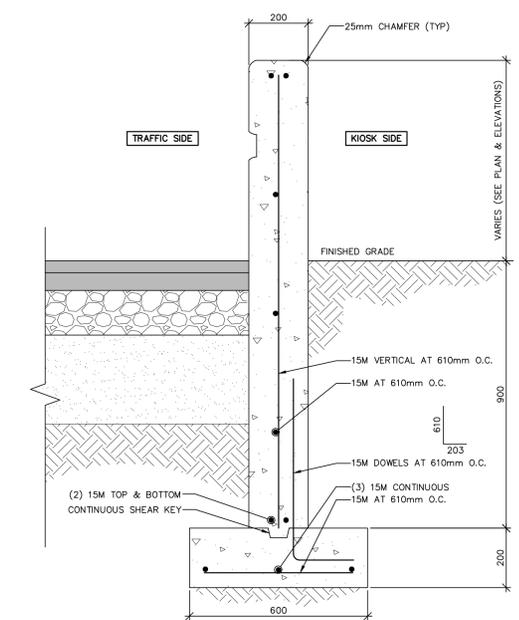


8 LANDSCAPE PLAN
1:50

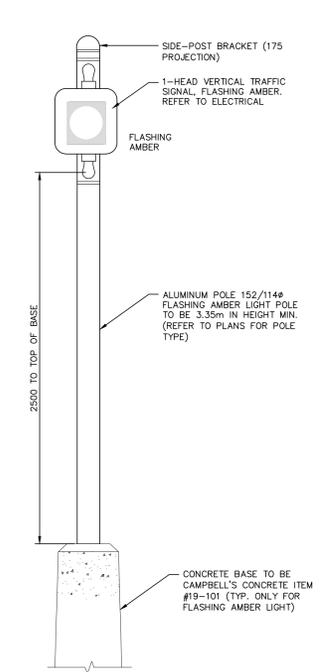
SYMBOL	DESCRIPTION	QUANTITY
	COMMON JUNIPER (2 GALLON)	16
	TUFTED HAIR GRASS (1 GALLON)	21
	PRAIRIE CORD GRASS (1 GALLON)	9
	RED TWIG DOGWOOD (3 GALLON)	4
	NATIVE RED SANDSTONE BOULDER WALL 3 COURSE AT 700mm	11 METERS
	DECORATIVE RED SANDSTONE BOULDER (300-600mm ROUNDED)	8
	RUSTIC PLANTERS WRAPPED WITH MANILLA ROPE TO ACCOMMODATE SEASONAL FLOWER BASKETS	5



7 ELEVATION: OHS
1:150



9 CONCRETE BARRIER SECTION
1:10



10 DETAIL: FLASHING AMBER BASE
1:20



0	ISSUED FOR TENDER	04/25/2019
revisions		date
project		
PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH, PE		
drawing		
SITE DETAILS & NOTES		
designed	SPM, E.I.T.	conçu
date	April 2019	dessiné
drawn	SPM, E.I.T.	date
date	April 2019	approved
approved	NL, P.Eng	date
date	April 2019	Submission
Tender	PCA Project Manager	Administrateur de projets APC
project number	181090	no. du projet
drawing no.	C4	no. du dessin

1/M1 DRAWING LEGEND

○ FE WALL MOUNTED 10 LB FIRE EXTINGUISHER

1/M1 PLAN NOTES:

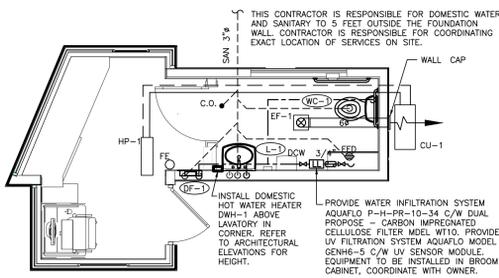
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH N.B.C.C., N.F.P.A. AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
- THIS CONTRACTOR SHALL PROVIDE FULLY FUNCTIONAL MINI-SPLIT HEAT PUMP INSTALLATIONS, INCLUDING THE SUPPLY AND INSTALLATION OF THE HEAT PUMP AND LISTED ACCESSORIES AND EQUIPMENT AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO ENSURE WARRANTY FOR THE MINI-SPLIT HEAT PUMP EQUIPMENT HAS A MINIMUM FIVE (5) YEAR WARRANTY ON PARTS AND COMPRESSOR.

PLUMBING LEGEND

- VAPOUR REFRIGERANT
- LIQUID REFRIGERANT
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- SANITARY U/G
- SANITARY A/G
- PIPE TEE
- BALL VALVE
- CHECK VALVE
- RELIEF VALVE
- UNION
- PIPE INSULATION
- FUNNEL FLOOR DRAIN
- FIXTURE TYPE (SEE SCHEDULE)
- CLEANOUT
- F.F.P.H.B. FREEZE PROOF HOSE BIB

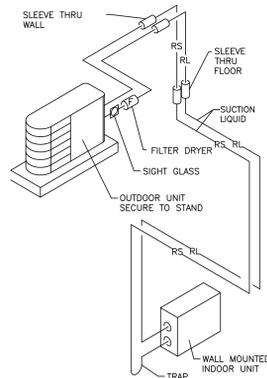
PLUMBING NOTES:

- ALL WORK SHALL BE PERFORMED TO LATEST EDITION OF THE NATIONAL PLUMBING CODE AND ALL AUTHORITIES HAVING JURISDICTION (A.H.J.). PROVIDE FOR ALL TESTS, PERMITS, FEES AND INSPECTIONS REQUIRED BY A.H.J.
- PROVIDE VENTING TO LATEST EDITION OF NATIONAL PLUMBING CODE. COORDINATE WITH BUILDING CONTRACTOR.
- SLOPE ALL SANITARY 1/8" TO 1'-0" UNLESS OTHERWISE NOTED.
- ALL SANITARY PIPING TO BE ABS. ALL EXPOSED VISIBLE PIPING TO BE CHROME.
- ALL DCW AND DHW TO BE COPPER TYPE L, UNLESS OTHERWISE NOTED. INSULATE ALL COPPER LINES WITH 1" INSULATION.
- CONNECT TO FIXTURES AS PER PLUMBING SCHEDULE, THIS PAGE. PROVIDE STOPS AT ALL PLUMBING FIXTURES.
- ALL DOMESTIC WATER PIPING TO BE HYDRAULICALLY PRESSURE TESTED TO 150 PSI AND HELD WITH OUT PRESSURE LOSS FOR 4 HOURS. TEST PROCEDURE TO BE APPROVED, WITNESSED AND SIGNED OFF BY ENGINEER OR OWNER REPRESENTATIVE.
- ALL DOMESTIC WATER PIPING TO BE DISINFECTED, RINSED AND TESTED TO THE REQUIREMENTS OF LOCAL CODES AND ENGINEER OR OWNER REPRESENTATIVE. PROCEDURE TO BE APPROVED AND TEST WITNESSED AND SIGNED OFF BY ENGINEER OR OWNER REPRESENTATIVE.
- ALL SANITARY PIPING TO BE HYDRAULICALLY TESTED PRIOR TO BACK FILLING OR OTHERWISE BUILT IN PROCEDURE TO BE APPROVED AND TEST WITNESSED AND SIGNED OFF BY ENGINEER OR OWNER REPRESENTATIVE.
- ALL FIXTURE GROUPS TO HAVE ISOLATION BALL VALVES INSTALLED. PROVIDE 1/4 TURN CHROME ANGLE STOP VALVE AT EACH CONNECTION TO FIXTURES. PROVIDE ACCESS HATCHES WHERE REQ'D.
- LEAVING SANITARY LOCATIONS, INVERTS, CONDITIONS, AVAILABLE GRADE AND DIRECTION OF FLOW SHALL BE VERIFIED ON SITE BY THIS CONTRACTOR BEFORE ANY PLUMBING IS STARTED.
- INCOMING WATER LOCATIONS AND CONDITIONS SHALL BE VERIFIED ON SITE BY THIS CONTRACTOR BEFORE ANY PLUMBING IS STARTED.
- SLOPE ALL DOMESTIC HOT AND COLD WATER LINES FOR SEASONAL DRAINAGE.
- SHOP DRAWINGS, MATERIAL AND EQUIPMENT LISTS TO BE PROVIDED FOR ALL VALVES, FIXTURES, HANGERS, PIPING, FITTINGS, MATERIALS AND EQUIPMENT. ALL MATERIALS AND EQUIPMENT TO BE APPROVED BY ENGINEER OR OWNER REPRESENTATIVE PRIOR TO ORDERING MATERIALS OR COMMENCEMENT OF WORK.
- ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE TRAP PRIMER FUNNEL FLOOR DRAIN AS REQUIRED BY NPC AND AHI.
- ALL DOMESTIC PIPE SIZES SHOWN ARE BASED ON STANDARD COPPER PIPE.



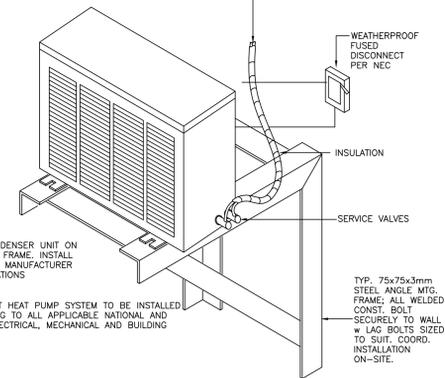
MECHANICAL PLAN LARGE KIOSK

SCALE : 1:50



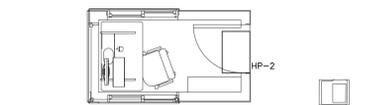
MINI SPLIT PIPING DETAIL

SCALE : N.T.S.



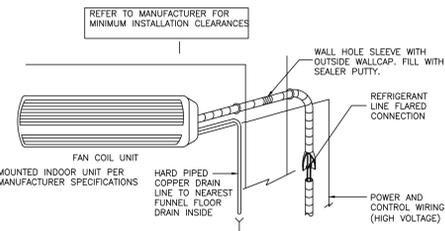
MINI SPLIT HUNG CONDENSOR DETAIL

SCALE : N.T.S.



MECHANICAL PLAN SMALL KIOSK

SCALE : 1:50



MINI SPLIT INDOOR DETAIL

SCALE : N.T.S.

GENERAL NOTES:

- GENERAL
 - SCOPE OF WORK
 - THE WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS AS INDICATED.
 - COOPERATION WITH OTHER TRADES
 - CONTRACTOR MUST COORDINATE CLOSELY WITH ALL OTHER TRADES AND WITH EXISTING SERVICES AS CEILING SPACE WILL BE LIMITED IN SOME PLACES.
 - EXAMINATION OF SITE
 - BEFORE TENDERING, EXAMINE THE SITE AND THE LOCAL CONDITIONS AFFECTING THE WORK OF THIS CONTRACT. NO ALLOWANCE WILL BE MADE FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION.
 - PERMITS, FEES AND CERTIFICATES
 - SUPPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED.
 - INSTALLATION AND COMMISSIONING OF EQUIPMENT
 - MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO BOTH THE INSTALLING TRADESMEN AND THE ON-SITE INSPECTOR PRIOR TO INSTALLATION OF EQUIPMENT. THESE INSTRUCTIONS ARE TO BE READ, UNDERSTOOD AND CLOSELY FOLLOWED. FAILURE TO ABIDE BY THIS REQUIREMENT WILL PROVIDE JUSTIFICATION FOR THE ENGINEER TO REQUIRE REMOVAL AND RE-INSTALLATION.
 - ENSURE THAT ALL SAFETY DEVICES AND OTHER SIGNIFICANT ACCESSORIES ARE IN PLACE AND OPERABLE BEFORE STARTING MAJOR PIECES OF EQUIPMENT, AS PART OF THE COMMISSIONING PROCESS ACCESSORIES ARE TO BE CHECKED, CALIBRATED AND ADJUSTED AS NECESSARY TO ENSURE SAFE OPERATION. FOLLOW MANUFACTURER'S INSTRUCTIONS IN DETAIL IN ESTABLISHING COMMISSIONING PROCEDURE.
 - DEMONTATION OF COMPLETE SYSTEMS
 - AT THE CONCLUSION OF THE JOB, THE CONTRACTOR SHALL REVIEW AND DEMONSTRATE TO THE OWNER ALL EQUIPMENT AND THEIR RESPECTIVE FUNCTIONS AND OPERATION. SUCH DEMONSTRATION SHALL BE PROVIDED FOR SUCH REASONABLE PERIODS OF TIME AS THE COMPLEXITY OF THE JOB WARRANTS, AND AS APPROVED BY THE ENGINEER. SUCH REVIEW AND DEMONSTRATION SHALL BE MADE BY AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR, FULLY KNOWLEDGEABLE OF THE PROJECT, ITS INSTALLATION AND OPERATION.
 - FINAL INSPECTION
 - PRIOR TO SUBSTANTIAL COMPLETION AND FINAL INSPECTION OF THE PROJECT, CONTRACTOR WILL INSPECT THE PROJECT, PROVIDE A MECHANICAL DEFICIENCY LIST, PROVIDE CONFIRMATION THAT ALL ITEMS ON THE LIST HAVE BEEN CORRECTED, PROVIDE THE OPERATION AND MAINTENANCE MANUALS, PROVIDE THE RECORD DRAWINGS, BALANCING REPORTS AND PROVIDE THE DEMONSTRATION OF THE COMPLETED MECHANICAL SYSTEMS.
 - ALL OF THE ABOVE MUST BE COMPLETED PRIOR TO THE FINAL INSPECTION BY THE ENGINEER AND SUBSTANTIAL COMPLETION OF THE MECHANICAL SYSTEMS.
 - SHOP DRAWINGS
 - CONTRACTOR TO SUBMIT TWO (2) SETS OF SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW.
 - OPERATION AND MAINTENANCE MANUAL
 - CONTRACTOR TO PROVIDE MAINTENANCE MANUALS FOR ALL EQUIPMENT INSTALLED, THREE (3) COPIES ORGANIZED IN 8 1/2" x 11" BINDERS TO BE PROVIDED.
 - RECORD DRAWINGS
 - CONTRACTOR TO PROVIDE AS-BUILT RECORD DRAWINGS.
 - IDENTIFICATION
 - PROVIDE ON EACH PIECE OF EQUIPMENT A METAL NAMEPLATE, MECHANICALLY FASTENED WITH RAISED OR RECESSED LETTERS.
 - DUCT IDENTIFICATION:
 - USE 2" HIGH BLACK STENCILED LETTERS WITH DIRECTIONAL FLOW ARROW
 - STENCIL OVER FINAL FINISH ONLY
 - IDENTIFY MEDIUM IN PIPING WITH MARKERS OR STENCILS SHOWING NAME AND SERVICE INCLUDING TEMPERATURE, PRESSURE, AND DIRECTIONAL FLOW ARROWS WHERE RELEVANT.
 - STANDARDS OF ACCEPTANCE
 - ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED ONLY AFTER RECEIVING APPROVED EQUAL STATUS FROM ENGINEER DURING TENDER PROCESS ONLY. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT PRIOR TO ORDERING ANY EQUIPMENT. IF ALTERNATE EQUIPMENT IS APPROVED BY ENGINEER ALL COSTS ASSOCIATED WITH ANY REQUIRED MODIFICATIONS, CHANGES, ETC TO USE THE ALTERNATE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CLEANING AND FINAL ADJUSTMENT
 - BALANCE AND ADJUST ALL SYSTEMS AND EACH PIECE OF EQUIPMENT TO OPERATE EFFICIENTLY.
 - CUTTING AND PATCHING
 - ALL CUTTING AND PATCHING WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
 - EXCAVATION AND BACKFILLING
 - ALL EXCAVATION AND BACKFILLING WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
 - PROTECTION OF OPENINGS
 - PROTECT EQUIPMENT SYSTEM OPENINGS INCLUDING ROUGH-IN PLUMBING FROM DIRT, DUST AND OTHER FOREIGN MATERIALS WITH MATERIALS COMPATIBLE TO THE SYSTEM.
 - INSULATION
 - GENERAL
 - PROVIDE 1" INSULATION TO ALL PIPING, VALVES AND FITTINGS FOR ALL HEATING WATER AND DOMESTIC COLD AND HOT WATER.
 - STANDARD OF ACCEPTANCE
 - RODIP PIPE: MANSON ALLEY X APT, OWENS CORNING, OWENS CORNING VAPORLOCK, MAXVILLE MICRO LOCK, KNAUF
 - APPLY INSULATION AFTER REQUIRED TESTS HAVE BEEN COMPLETED AND APPROVED BY ENGINEER. INSULATION AND SURFACES SHALL BE CLEAN AND DRY WHEN INSTALLED AND DURING APPLICATION OF ANY FINISH.
 - INSULATION IS NOT REQUIRED FOR
 - CHROME-PLATED PIPING, FLANGES AND VALVE BONNETS ON DOMESTIC HOT AND COLD WATER SERVICES, EXCEPT AS REQUIRED BY CODE
 - SANITARY DRAINAGE PIPING
 - DUCTWORK
 - PROVIDE 1" THICK FIBERGLASS DUCT INSULATION C/W FACTORY APPLIED FOIL SCIM-KRAFT VAPOR JACKET ON ALL EXHAUST DUCTWORK TO FT IN FROM EXTERIOR WALL.
 - PLUMBING
 - GENERAL
 - ALL WORK TO BE COMPLETED IN ACCORDANCE WITH NBC, CPC, AND AUTHORITIES HAVING JURISDICTION. PIPING TO BE INSTALLED TO ALLOW FOR COMPLETE DRAINAGE AND WINTERIZATION OF SYSTEMS.
 - PIPING
 - SANITARY PIPING TO BE PVC PLASTIC, SLOPED AT 1/8" TO 1'-0".
 - DRAINAGE AND VENTS - TYPE L COPPER
 - WATER ABOVE GRADE - TYPE L COPPER
 - HANGERS
 - GLENS TYPE WITH THREADED RODS.
 - SPECIALTIES
 - FUNNEL FLOOR DRAINS
 - ZURN #24518F
 - FROST PROOF HOSE BIB
 - ZURN #21321

- VALVES
 - DOMESTIC WATER - JENKINS FIG. 901A OR FIG. 902A
- HEATING
 - MINI-SPLIT HEAT PUMP
 - PER SCHEDULE - INSTALLED PER MANUFACTURER'S INSTRUCTION.
 - BASEBOARD HEATERS
 - BY DIVISION 26
 - VENTILATION
 - GENERAL
 - ALL DUCTWORK AND HANGERS SHALL BE CONSTRUCTED TO SMACNA STANDARDS BASED ON 2" SP. IN DUCTS. DUCTWORK TO BE SEALED TO SMACNA CLASS "A" STANDARDS.

EXPANSION TANK SCHEDULE							
MARK	MAKE	MODEL	VOLUME LITRES	ACCEPT LITRES	DIMENSIONS (mm)	CONNECTIONS	REMARKS
					LENGTH DIA.		
ET-1	AMTROL	WX-202	76	43	813 381	NPS 1	WELL PRESSURE TANK

HEAT PUMP UNIT SCHEDULE									
UNIT NO.	MANUFACTURER	MODEL	LOCATION	SUPPLY FAN		NOMINAL COOLING CAP. kW	ELECTRIC MCA AMPS	ELECTRICAL DATA	REMARKS
				LPS	ESP (in. w.c.)				
HP-1	FITJITSU	ASURLS33	WORKSTATION	231	-	2.6	14.4	208/1/60	C/W DISCONNECT, EXT. WALL MOUNT KIT
HP-2	FRIGIDAIRE	FFRH0822R1	WORKSTATION	127	-	2.3	12	120/1/60	C/W ELECTRIC HEAT, THRU WALL MOUNTING KIT

PLUMBING FIXTURE SCHEDULE		
TYPE	DESCRIPTION	STANDARD OF ACCEPTANCE
L-1	WASHROOM LAVATORIES	AMERICAN STD LUCERNE BARRIER FREE WALL HUNG LAVATORY, MODEL 0355.912 C/W WALL HANGER AND MOEN 8278SMF15 4" FAUCET. NO EXCEPTIONS
W-1	WATER CLOSETS	AMERICAN STD. CHAMPION BARRIER FREE WATER CLOSET MODEL 211AA 154, C/W "EVERCLEAN" AND AMERICAN STANDARD 5325.010.020 WHITE SEAT WITH COVER. NO EXCEPTIONS
DF-1	BOTTLE FILLING STATION	EKLAY EZH20 MODEL EMASM, C/W MOUNTING FRAME. NO EXCEPTIONS

EXHAUST FAN SCHEDULE										
TAG	MANUF.	MODEL	LOCATION	AIRFLOW (CFM)	E.S.P.	Pd	FAN RPM	POWER	ELECT	COMMENTS
EF-1	PANASONIC	FV-05-11VSK1	BATH	100	100	-	0.27 A	20/1/60		CEILING FAN WITH INTEGRAL BACKDRAFT DAMPER. PROVIDE WALL CAP.

DOMESTIC WATER HEATER SCHEDULE							
TAG	MANUF.	MODEL	CAP. (L)	RECOVERY @ 56C RISE (LPH)	KW	ELECT.	COMMENTS
DWH-1	BRADFORD WHITE	M-1-WHE6US5	23	26	1.5	120V/1PH/60	MOUNT NEAR CEILING HEIGHT C/W WALL MOUNTING BRACKETS, BOTTOM DRAIN



0	ISSUED FOR TENDER	04/24 2019
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revisions

project

PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH BRACKLEY, PE

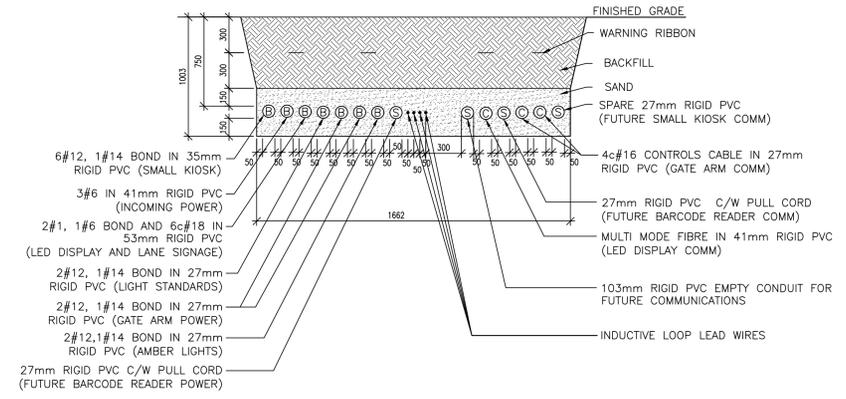
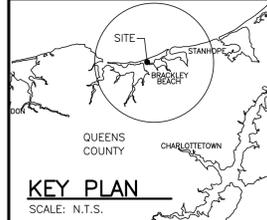
MECHANICAL PLANS, DETAILS, AND SCHEDULES

designed	SWW, P.ENG	conçu
date	April 2019	
drawn	A.E.M	dessiné
date	April 2019	
approved	SWW, P.ENG	approuvé
date	April 2019	
Tender		Submission

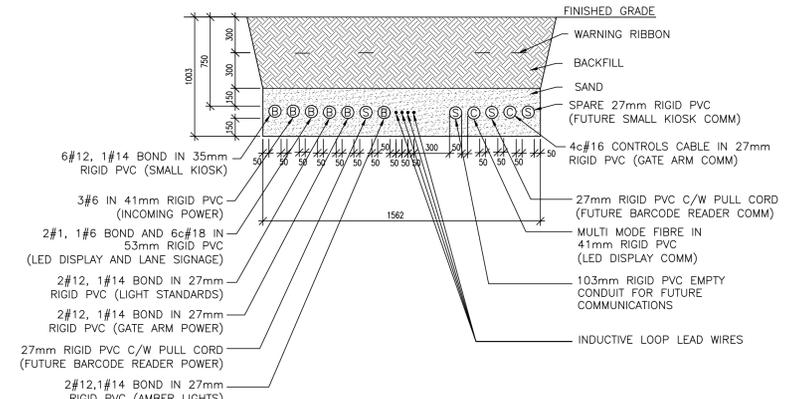
PWSC Project Manager Administrateur de projets TPSCG

project number **181090** no. du projet

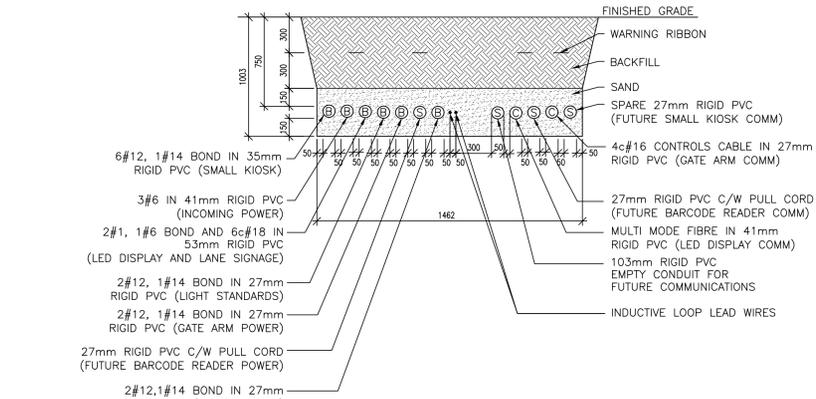
drawing no. **M1** no. du dessin



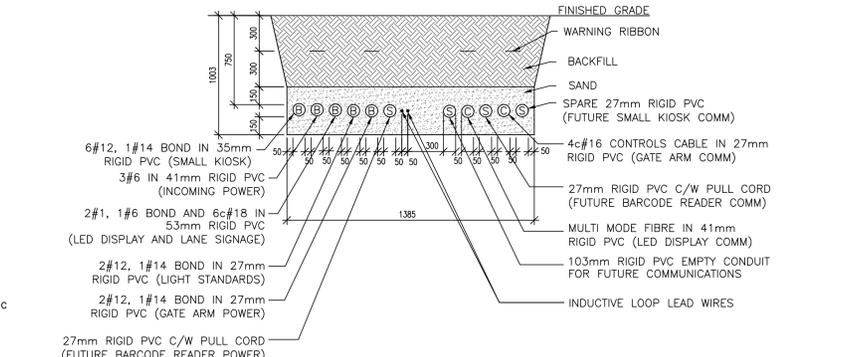
△ SITE POWER & COMMUNICATIONS



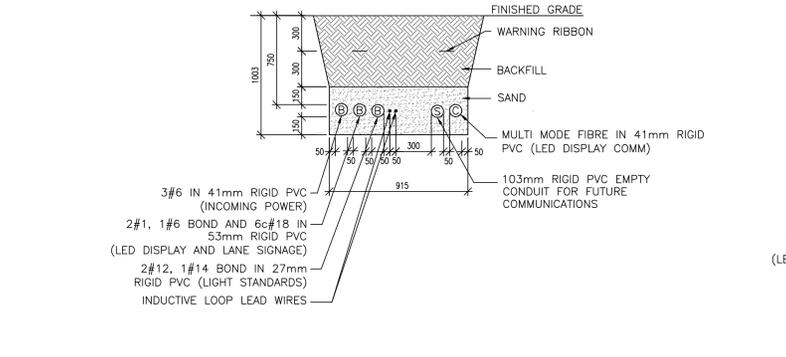
△ SITE POWER & COMMUNICATIONS



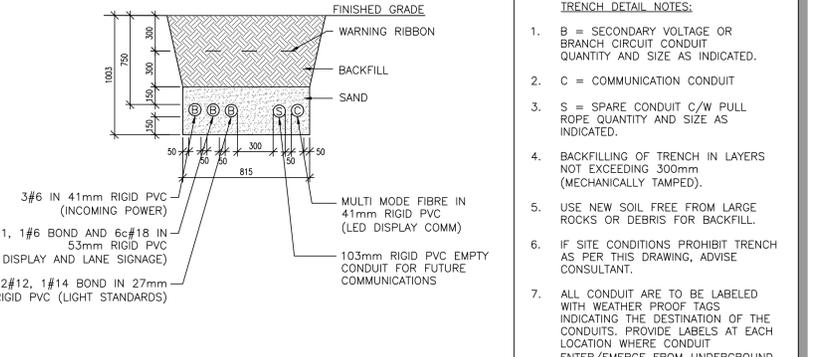
△ SITE POWER & COMMUNICATIONS



△ SITE POWER & COMMUNICATIONS

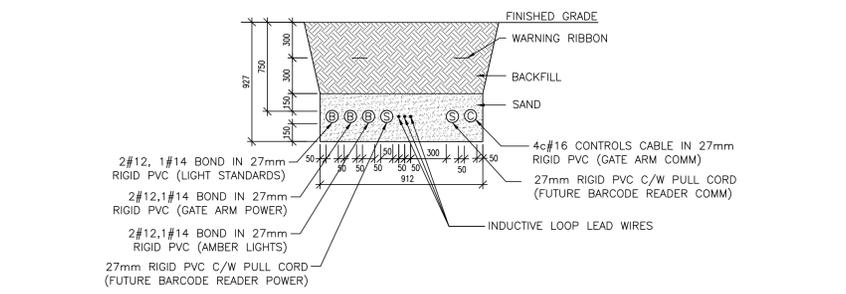


△ SITE POWER & COMMUNICATIONS

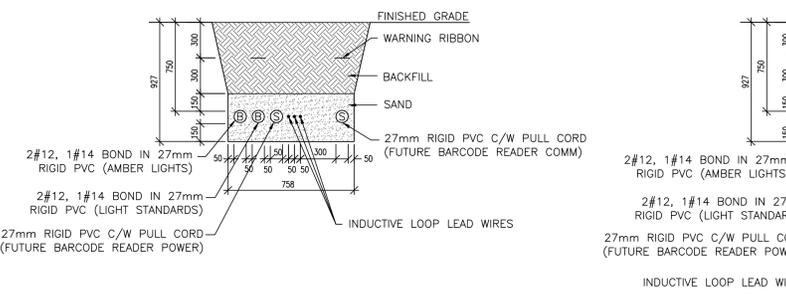


△ SITE POWER & COMMUNICATIONS

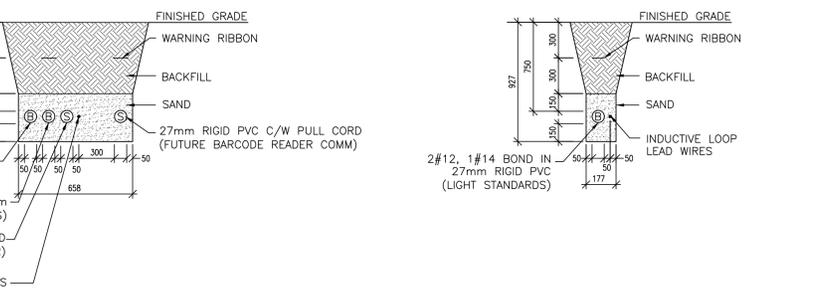
- TRENCH DETAIL NOTES:**
1. B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE AS INDICATED.
 2. C = COMMUNICATION CONDUIT
 3. S = SPARE CONDUIT C/W PULL ROPE QUANTITY AND SIZE AS INDICATED.
 4. BACKFILLING OF TRENCH IN LAYERS NOT EXCEEDING 300mm (MECHANICALLY TAMPED).
 5. USE NEW SOIL FREE FROM LARGE ROCKS OR DEBRIS FOR BACKFILL.
 6. IF SITE CONDITIONS PROHIBIT TRENCH AS PER THIS DRAWING, ADVISE CONSULTANT.
 7. ALL CONDUIT ARE TO BE LABELED WITH WEATHER PROOF TAGS INDICATING THE DESTINATION OF THE CONDUITS. PROVIDE LABELS AT EACH LOCATION WHERE CONDUIT ENTER/EMERGE FROM UNDERGROUND.



△ SITE POWER & COMMUNICATIONS

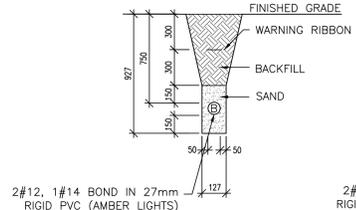


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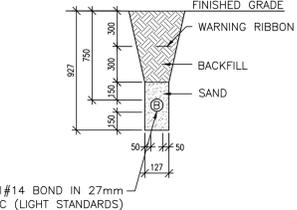


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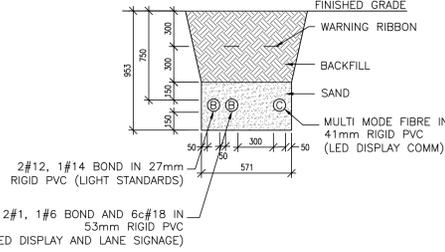
△ BRANCH CIRCUIT WIRING & TRAFFIC LOOP



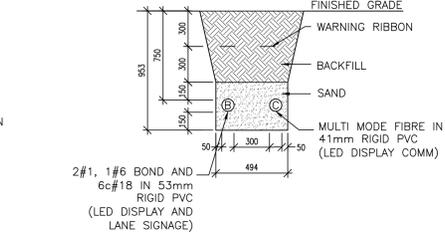
△ BRANCH CIRCUIT WIRING



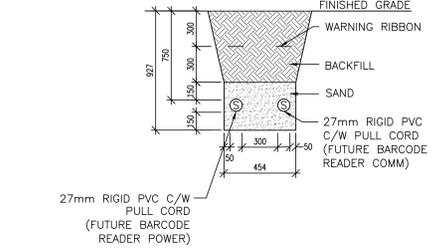
△ BRANCH CIRCUIT WIRING



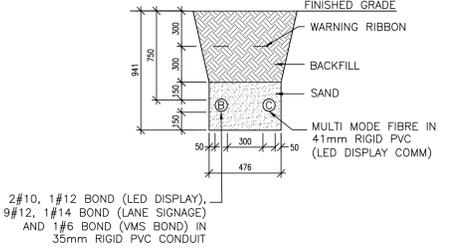
△ SITE POWER & COMMUNICATIONS



△ OVERHEAD SIGNAGE POWER & COMMUNICATIONS

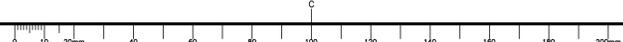


△ FUTURE BARCODE READER POWER & COMMUNICATIONS



△ OVERHEAD SIGNAGE POWER & COMMUNICATIONS

TRENCH DETAILS
SCALE : N.T.S.



0	ISSUED FOR TENDER	04/25/2019
revisions		date

project
PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH
project

ELECTRICAL TRENCH DETAILS

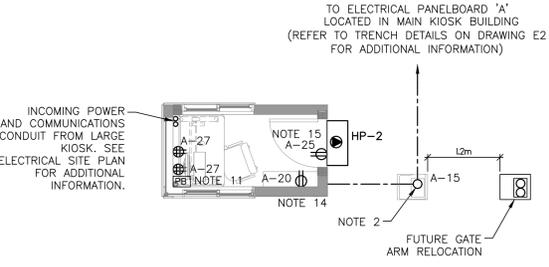
designed E.A. EIT	congru
date Feb. 2019	
drawn M.E.M., C.E.T.	dessiné
date Feb. 2019	
approved E.S.C., P.ENG	approuvé
date	
Tender	Soumission
PCA Project Manager	Administrateur de projets APC
project number	no. du projet
181090	
drawing no.	no. du dessin
E2	

DESIGNATION	PANEL 'A'						DESIGNATION				
	A	B	P	BKR	CIRCUIT	BKR					
RECEPTACLES - DESK	240		1	15	1	A	2	15	1	330	LIGHTING
RECEPTACLES - DESK	240		1	15	3	B	4	20	2	1728	HP-1/CU-1
MICROWAVE	1000		1	20	5	A	6	20	2	1728	
GATE ARM	1176		1	15	7	B	8	15	1	400	TRAFFIC RECORDING SYSTEM
RECEPTACLES	500		1	15	9	A	10	15	1	100	DOOR OPERATOR
EXTERIOR RECEPTACLES	120		1	15	11	B	12	15	1	200	WATER FOUNTAIN & UV LIGHT
GATE ARM	1176		1	15	13	A	14	20	1	1500	DHWH-1
GATE ARM	1176		1	15	15	B	16	15	2	600	WELL PUMP
FIELD CABINET: LOAD CENTER	1300		2	60	17	A	18	15	1	600	
SPARE			1	15	19	B	20	15	1	500	RECEPTACLE - AFC MACHINE
SPACE			1	15	21	A	22	15	1		SPARE
HP-2	1440		1	15	25	A	26	15	1		SPARE
SMALLER KIOSK - LIGHTS & POWER	500		1	15	27	B	28				SPACE
SMALLER KIOSK - SPARE			1	15	29	A	30				SPACE
PHASE LOADS:	5656	4512								4258	3428
TOTAL PHASE LOADS:	9914	7940									
TOTAL LOADS:	17854										
CURRENT AT 240V/1PH:	74A										

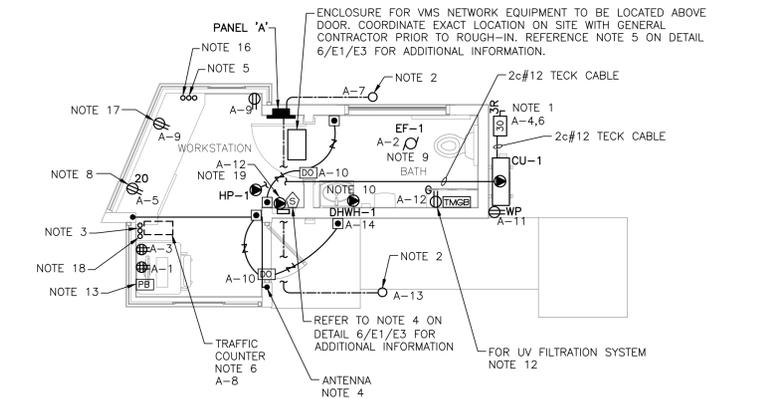
NOTE: PANEL TO BE SERVICE ENTRANCE RATED

DEMAND CALCULATION				
BASIC LOAD CALCULATION - REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)				
DESIGNATION	AREA (m²)	TYPE OF OCCUPANCY	W/m²	DEMAND %
LARGE & SMALL KIOSK	25.6	OFFICE	50	100%
				1,280
SPECIAL LOAD CALCULATION - REFERENCING CEC 22.1-15 8-210 (b), AND 62-118 (5)				
DESIGNATION	TOTAL LOAD (W)	DEMAND %	TOTAL DEMAND (W)	
HP-1, DHWH-1, EF-1, WELL PUMP, HP-2	7596	75%	5,697	
LED SIGNS	1800	100%	1,800	
			TOTAL BASIC DEMAND (W)	
			1,280	
			TOTAL SPECIAL DEMAND (W)	
			5,670	
REFERENCING CEC 22.1-15 8-210			TOTAL ELECTRIC DEMAND (W)	
			8,777	
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE				
			37A	
x 1.25% SPARE CAPACITY				
			46A	

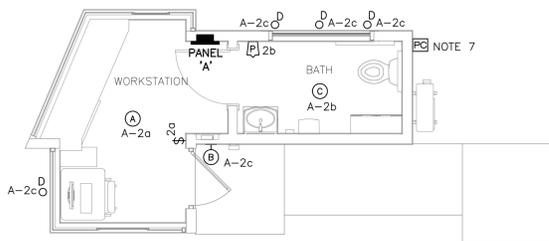
NOTE: IN ACCORDANCE WITH CEC 22.1-15 8-106(4) DEMAND CALCULATION ARE BASED ON SUMMER TIME OPERATION GIVEN THAT COOLING LOAD IS LARGER THAN THE HEATING LOAD AND THE BUILDING IS ONLY OPERATIONAL IN THE SUMMER MONTHS.



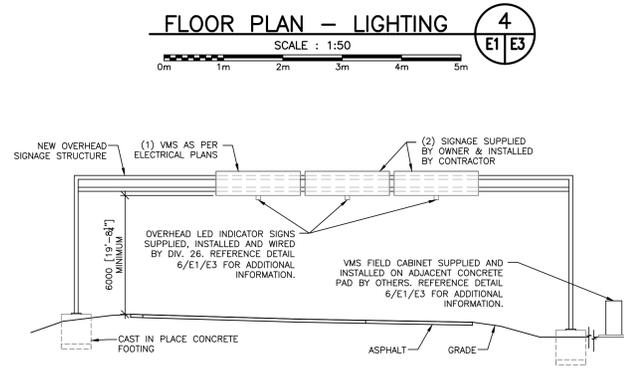
FLOOR PLAN - POWER (1) E1 E3



FLOOR PLAN - POWER (1) E1 E3



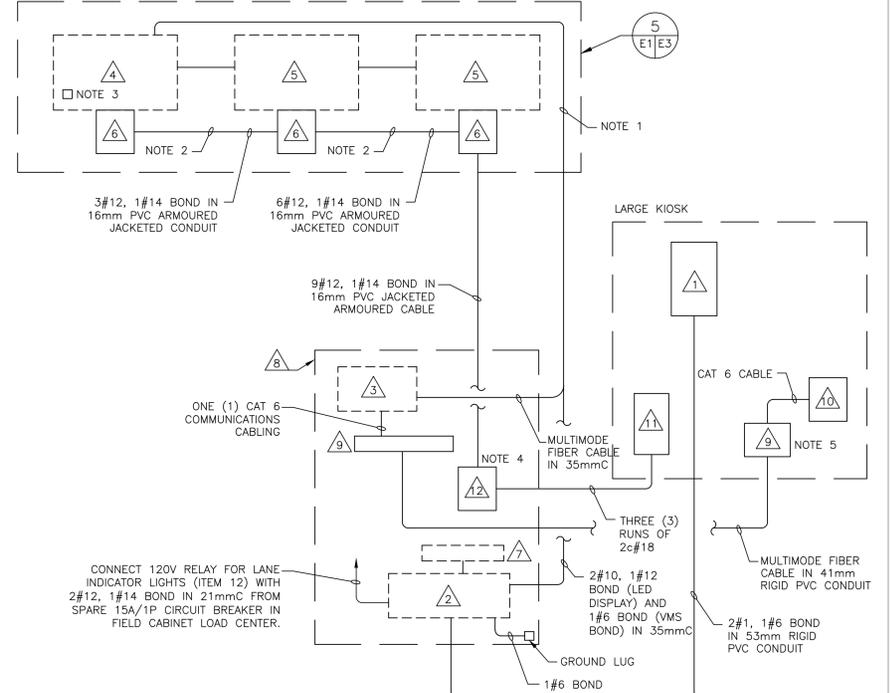
FLOOR PLAN - LIGHTING (2) E1 E3



ELEVATION: OHSS (5) E1 E3

- DETAIL GENERAL NOTES:**
- ALL GROUND MOUNTED FIELD CABINET INTERNAL WIRING TO BE COMPLETED BY VMS SUPPLIER AND COMMISSIONING AGENT.
 - TERMINATION AND TESTING OF MULTI-MODE FIBER CABLES TO BE COMPLETED BY CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS SECTION 27 10 05.
 - ALL VMS INTERNAL WIRING TO BE COMPLETED BY VMS SUPPLIER AND COMMISSIONING AGENT.
- DETAIL NOTES:**
- SECURELY FASTEN TWO (2) EXPOSED 35mm PVC JACKETED ARMORED CABLES TO HSS SUPPORT STRUCTURE FOR NEW OVERHEAD SIGN WITH PVC STRAPPING AND STAINLESS STEEL FASTENERS THROUGH CONCRETE FOOTING AND UNDERGROUND THROUGH 35mm RIGID PVC CONDUIT TO GROUND MOUNTED FIELD CABINET. CONCEAL CONDUITS BEHIND OVERHEAD SIGNAGE STRUCTURE WHERE POSSIBLE. COORDINATE ROUTING OF PVC JACKETED ARMORED CABLE WITH OVERHEAD SIGNAGE STRUCTURE INSTALLER. PROVIDE WATER TIGHT SPIN-ON 35mm CONNECTOR TO CONNECT 35mm PVC JACKETED ARMORED CABLE TO VMS 35mm CONDUIT FITTING.
 - SECURELY FASTEN 16mm PVC JACKETED ARMORED CABLE TO HSS SUPPORT STRUCTURE FOR NEW OVERHEAD SIGN WITH PVC STRAPPING AND STAINLESS STEEL FASTENERS. CONCEAL CONDUITS BEHIND SIGNAGE STRUCTURE WHERE POSSIBLE. COORDINATE EXACT ROUTING OF PVC JACKETED ARMORED CABLE WITH OVERHEAD SIGNAGE STRUCTURE INSTALLER.
 - CONNECT #6 GREEN BOND IN PVC JACKETED ARMORED CABLE TO VMS GROUND LUG LOCATED ON THE BACK SIDE OF VMS.
 - SUPPLY AND INSTALL THREE (3) NEW 120V RELAYS DIN RAIL MOUNTED IN LINE VOLTAGE SECTION OF GROUND MOUNTED FIELD CABINET AND WIRE TO OVERHEAD LED LINE INDICATOR SIGNS WITH 9#12, 1#14 BOND IN 35mm UNDERGROUND RIGID PVC CONDUIT AND 16mm PVC JACKETED ARMORED CABLE SECURELY FASTENED TO HSS SUPPORT STRUCTURE FOR NEW OVERHEAD SIGN. COORDINATE EXACT LOCATION AND MOUNTING OF RELAYS WITH GROUND MOUNTED FIELD CABINET INSTALLER. ROUTE THREE (3) RUNS OF 2c#18 IN 53mm RIGID PVC CONDUIT BACK TO THREE (3) MAINTAINED TWO POSITION THUMB SWITCHES MOUNTED IN A SINGLE GANG DEVICE BOX LOCATED ON SOUTH WALL OF LARGE KIOSK. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: ALLEN BRADLEY #VB-E5-E5 (OUTLET BOX) + ALLEN BRADLEY #800T-2HRH2AA (ILLUMINATED MAINTAINED THUMB SWITCH). COORDINATE EXACT LOCATION OF SINGLE GANG DEVICE BOX ON SITE WITH GENERAL CONTRACTOR AND PARKS CANADA PRIOR TO ROUGH-IN. INSTALL LAMICOID NAMEPLATES ABOVE EACH SWITCH WHICH READS NORTH LANE, MID LANE AND SOUTH LANE.
 - VENTED FOUR (4) RACK UNIT CSA TYPE 1 POWDER COATED 0.75mm GAUGE STEEL ENCLOSURE C/W LOCKABLE COVER (RALSTON #EBF-063) FOR VMS NETWORK EQUIPMENT AND FUTURE RACK MOUNTED PCA EQUIPMENT.

VMS AND LANE INDICATOR SIGNS SCHEMATIC DETAIL NOTES	
ITEM	DESCRIPTION
1	60A MB, 120/208V, THREE PHASE, FOUR WIRE PANELBOARD 'A'.
2	100A RATED, 60A MB, 120/240V, SINGLE PHASE, THREE WIRE, 12 CIRCUIT, LOAD CENTER SUPPLIED AND INSTALLED AS PART OF GROUND MOUNTED FIELD CABINET. LOAD CENTER TO BE PROVIDED C/W ONE (1) 30A/2P CIRCUIT BREAKER FOR VMS FEED AND 15A/1P CIRCUIT BREAKER FOR FIELD CABINET INTERNAL EQUIPMENT.
3	120V VMS CONTROLLER UNIT SUPPLIED AND INSTALLED WITHIN GROUND MOUNTED FIELD CABINET C/W TWO (2) REMOTE RS232, ONE (1) LOCAL RS232, ONE (1) RS485, ONE (1) 10/100 ETHERNET PORT, ONE (1) AUXILIARY INPUT AND TWO (2) FIBER OPTIC CONNECTIONS TO VMS ELECTRONICS.
4	VARIABLE MESSAGE SIGN (VMS) LOCATED FURTHEST FROM GROUND MOUNTED FIELD CABINET SUPPLIED AND INSTALLED BY VMS SUPPLIER, WIRED BY DIV. 26.
5	STATIC SIGNAGE SUPPLIED AND INSTALLED BY OTHERS.
6	OVERHEAD LED INDICATOR SIGNS SUPPLIED, INSTALLED AND WIRED BY DIV. 26. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: GO INC. #NBB400-XA.
7	SURGE PROTECTOR SUPPLIED AND INSTALLED AS PART OF GROUND MOUNTED FIELD CABINET.
8	TYPE 332 GROUND MOUNTED FIELD CABINET C/W VMS CONTROLLER UNIT, 100A RATED LOAD CENTER, PRIMARY AND SECONDARY SURGE PROTECTOR, FORCED AIR FAN, THERMOSTATICALLY CONTROLLER HEATER, ONE (1) 15A GFCI DUPLEX RECEPTACLE, FRONT AND BACK LIGHT DOOR ACTIVATED BY DOOR SWITCHES AND DOOR OPEN DETECTION SWITCHES. GROUND MOUNTED FIELD CABINET TO BE SUPPLIED AND INSTALLED BY VMS SUPPLIER.
9	ONE (1) DIN RAIL MOUNTED FIBER OPTIC SPLICER C/W FAN OUT KIT AND SINGLE PANEL ST CONNECTORS AND PATCH (CORNER #SPH-01P OR APPROVED EQUAL) AND ONE (1) DIN RAIL MOUNTED MULTIMODE FIBER TO COPPER 4-PORT ETHERNET SWITCH C/W 120VAC/24VDC POWER SUPPLY (B&B ELECTRONICS #E5W205-MT & #MDR-2024 OR APPROVED EQUAL), 35mm DIN RAIL SUPPLIED AND INSTALLED BY DIV. 26.
10	PC AND MONITOR SUPPLIED AND INSTALLED BY PARKS CANADA
11	SINGLE GANG OUTLET BOX C/W THREE (3) ILLUMINATED MAINTAINED THUMB SWITCH.
12	THREE (3) 120V RELAYS, DIN RAIL MOUNTED AND LOCATED IN LINE VOLTAGE SECTION OF FIELD CABINET.



LED VARIABLE MESSAGE SIGNS AND LANE INDICATOR SIGNS WIRING DIAGRAM (6) E1 E3

- NOTES:**
- AC-1/CU-1 REQUIRES 230V, SINGLE PHASE, 2.6 KW POWER. EXTERIOR WIRING TO CSA TYPE 3R RATED 30A UNFUSED DISCONNECT SWITCH AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE COMPLETED WITH TECK CABLE. CONTROL WIRING BETWEEN INDOOR AND OUTDOOR CONDENSER UNIT TO BE COMPLETED BY OTHERS. WALL PATCHING AND SEALING TO BE COORDINATED WITH AND COMPLETED BY THE GENERAL CONTRACTOR. ROUTE EXTERIOR TECK CABLE ADJACENT TO REFERENT LINES ON MECHANICAL LINE SUPPORTS. COORDINATE EXACT LOCATION OF 30A UNFUSED DISCONNECT SWITCH, ASSOCIATED OUTDOOR CONDENSING UNIT AND INDOOR AC MINI-SPLIT UNIT ON SITE PRIOR TO ROUGH-IN.
 - STUB UP TWO (2) 27mm RIGID PVC CONDUITS INTO BASE OF GATE OPERATOR AND CONNECT TO GATE. RUN 2#12, 1#14 BOND IN ONE (1) 27mm RIGID PVC CONDUIT AND TERMINATE AT PANELBOARD 'A'. OTHER 27mm RIGID PVC CONDUIT TO BE FOR HARDWIRED GATE ARM CONTROL WHICH IS TO BE STUBBED UP BELOW DESK IN SOUTH WEST CORNER OF SMALL KIOSK. COORDINATE STUB UP LOCATIONS ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZE, LOCATION AND CONNECTION OF RESET LOOP.
 - PROVIDE TWO (2) EMPTY 27mm CONDUITS C/W PULL CORDS ROUTED FROM PANELBOARD 'A' 300mm BELOW CONCRETE FLOOR AND STUBBED UP UNDER THE DESK AT LOCATION SHOWN. COORDINATE EXACT ROUTING OF CONDUITS AND STUB UP LOCATIONS ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ANTENNA AND ASSOCIATED COAXIAL CABLING SUPPLIED BY PARKS CANADA AND INSTALLED BY ELECTRICAL CONTRACTOR. ANTENNA CABLE TO BE RUN IN 16mm EMT CONDUIT IN CEILING SPACE AND WITHIN THE GYPSUM WALL CAVITY, DOWN TO THE UNDERSIDE OF THE DESK. LEAVE 1.5m SLACK CABLE COILED AND SECURED TO THE UNDERSIDE OFF THE DESK.
 - TWO (2) EMPTY 27mm CONDUITS C/W PULL CORDS ROUTED FROM PANELBOARD 'A' 300mm BELOW CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN. COORDINATE EXACT ROUTING OF CONDUITS AND STUB UP LOCATIONS ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - TRAFFIC RECORDING SYSTEM CAPABLE OF INDEPENDENTLY MONITORING FOUR LANES OF TRAFFIC AND STORING AT LEAST ONE YEAR OF TRAFFIC STATISTICS. CONNECT TRAFFIC RECORDING SYSTEM WITH 2#12, 1#14 BOND IN 27mm UNDERGROUND CONDUIT TO A 15A/1P CIRCUIT BREAKER OF PANELBOARD 'A' AND PROVIDE A 1.8m LONG USE CABLE. TRAFFIC RECORDING SYSTEM TO BE MOUNTED IN MILLWORK UNDER THE DESK. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. STANDARD OF ACCEPTANCE TO BE INTERNATIONAL ROAD DYNAMICS INC. TRS RACK 11.
 - ALL EXTERIOR LIGHTS TO BE CONTROLLED BY PHOTOCELL MOUNTED AT 2300mm ABOVE FINISHED GRADE. PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #K4251 OR APPROVED EQUAL. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - DEDICATED DUPLEX RECEPTACLE FOR MICROWAVE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - NEW 120V, SINGLE PHASE, 0.27A EXHAUST FAN. WIRE 'EF-1' WITH 2#12, 1#14 IN 21mmC TO CIRCUIT A-2 THROUGH SWITCHED SIDE OF WALL MOUNTED OCCUPANCY SENSOR SUCH THAT THE ACTIVATION OF WALL MOUNTED OCCUPANCY SENSOR ENERGIZES BOTH EXHAUST FAN 'EF-1' AND LUMINAIRE.
 - NEW 120V, SINGLE PHASE, 1.5KW WALL MOUNTED 'DHWH-1' WIRE 'DHWH-1' WITH 2#12, 1#14 IN 21mmC TO 20A/1P CIRCUIT BREAKER LOCATED IN POSITION 14 OF PANELBOARD 'A'.
 - MOMENTARY PUSH BUTTON FOR CONTROLLING GATE ARM. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: ALLEN BRADLEY #800T-868 (SOUTH LANE) AND ALLEN BRADLEY #800H-1H24C (OUTLET BOX). COORDINATE EXACT LOCATION OF DEVICE AND ALL ASSOCIATED WIRING THROUGH DESK WITH GENERAL CONTRACTOR AND PARKS CANADA ON SITE PRIOR TO ROUGH-IN. INSTALL LAMICOID NAMEPLATES ADJACENT TO EACH PUSH BUTTON WHICH READS SOUTH GATE.
 - COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLE FOR UV FILTRATION SYSTEM WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. WIRE RECEPTACLE WITH 2c#12 AC90 CONCEALED THROUGH MILLWORK AND UP THROUGH INTERIOR OF GYPSUM WALL TO A 15A/1P CIRCUIT BREAKER LOCATED IN POSITION 12 OF PANELBOARD 'A'.
 - MOMENTARY PUSH BUTTONS FOR CONTROLLING GATE ARMS. ACCEPTABLE MATERIAL OR APPROVED EQUAL: ALLEN BRADLEY #800T-868 (NORTH GATE), ALLEN BRADLEY #800T-898 (MID GATE) AND ALLEN BRADLEY #800T-VA-B2 (OUTLET BOX). COORDINATE EXACT LOCATION OF DEVICE BOX AND ALL ASSOCIATED WIRING AROUND/THROUGH DESK WITH GENERAL CONTRACTOR AND PARKS CANADA ON SITE PRIOR TO ROUGH-IN. INSTALL LAMICOID NAMEPLATES ADJACENT TO EACH PUSHBUTTON WHICH READS NORTH AND MID GATE.
 - DEDICATED DUPLEX RECEPTACLE FOR AFC MACHINE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF AFC MACHINE ON SITE WITH GENERAL CONTRACTOR AND PARKS CANADA PRIOR TO ROUGH-IN.
 - EXTEND 2#12, 1#14 BOND FROM PULLBOX THROUGH CEILING SPACE TO WIRE DEDICATED DUPLEX RECEPTACLE FOR HP-2. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLE FOR HP-2 ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 2#12, 1#14 BOND IN 27mmC ROUTED FROM PANELBOARD 'A' 300mm BELOW CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN TO WIRE REFRIGERATOR AND MICROWAVE. COORDINATE EXACT ROUTING OF CONDUITS AND STUB UP LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - DUPLEX RECEPTACLE FOR REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 6#12, 1#14 BOND IN 27mmC AND 2c#18 IN 21mmC ROUTED FROM PANELBOARD 'A' 300mm BELOW CONCRETE FLOOR AND STUBBED UP UNDER THE DESK TO WIRE TRAFFIC RECORDING SYSTEM, TWO (2) DESK RECEPTACLES AND GATE ARM PUSHBUTTONS. COORDINATE EXACT ROUTING OF CONDUIT AND STUB UP LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - WIRE WATER FOUNTAIN WITH 2#12, 1#14 BOND IN 21mmC TO A 15A/1P CIRCUIT BREAKER LOCATED IN POSITION 12 OF PANELBOARD 'A'.

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KEY PLAN
SCALE: N.T.S.

revisions	date
0	ISSUED FOR TENDER 04/25/2019

project
PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH

design
BRACKLEY BEACH, PE

ELECTRICAL FLOOR PLANS & DETAILS

designed E.A. EIT conq
date Feb. 2019
drawn M.E.M., C.E.T. dessin
date Feb. 2019
approved E.S.C., P.ENG approuv
date
Tender Soumission
PCA Project Manager Administrateur de projets APC
project number no. du projet
181090
drawing no. no. du dessin
E3