

PARKS CANADA AGENCY

PARKS CANADA KIOSKS PHASE 1



ARCHITECTURAL

- A1 PLANS AND ELEVATIONS
- A2 BUILDING SECTIONS, WALL SECTIONS AND DETAILS
- A3 WINDOW & DOOR SCHEDULES, ELEVATIONS AND MILLWORK

CIVIL

- C1 CANNYMORE LANE KIOSK EXISTING SITE PLAN & NEW SITE PLAN
- C2 NORTH RUSTICO KIOSK EXISTING SITE PLAN & NEW SITE PLAN
- C3 DALVAY KIOSK EXISTING SITE PLAN & NEW SITE PLAN
- C4 BAYSHORE LANE KIOSK EXISTING SITE PLAN & NEW SITE PLAN
- C5 SITE DETAILS
- C6 CRASH PROTECTION & LANDSCAPING DETAILS

MECHANICAL

- M1 MECHANICAL PLANS, DETAILS, AND SCHEDULES

ELECTRICAL

- E1 CANNYMORE LANE KIOSK ELECTRICAL
- E2 NORTH RUSTICO KIOSK ELECTRICAL
- E3 DALVAY KIOSK ELECTRICAL
- E4 BAYSHORE KIOSK ELECTRICAL

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drawing projet

Parks Canada
Kiosks Phase
1

drawing dessin

COVER PAGE

designed R.P. conçu

date DEC. 8 2017

drawn R.P. dessiné

date DEC. 8 2017

approved H.S.C. approuvé

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Tender Soumission

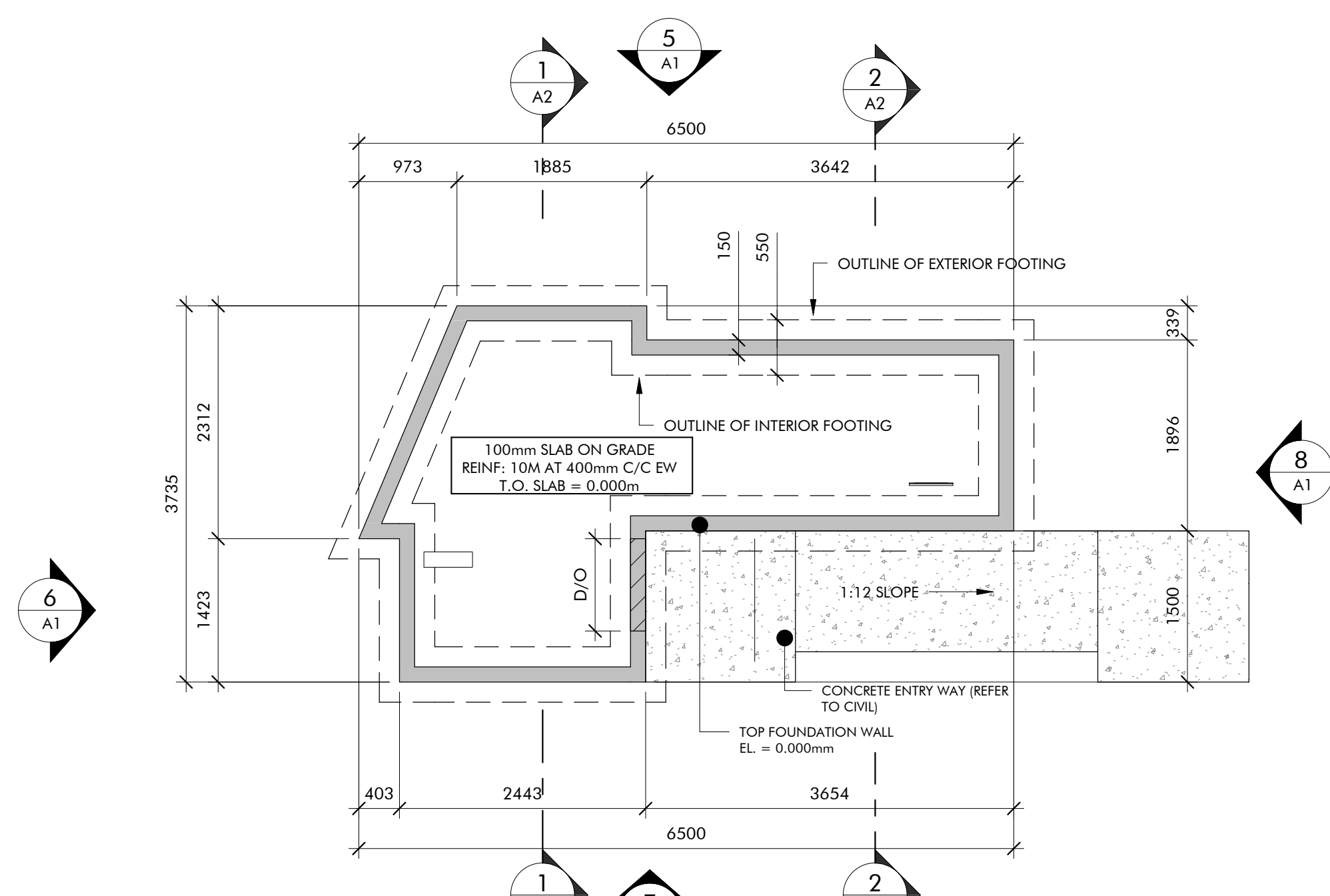
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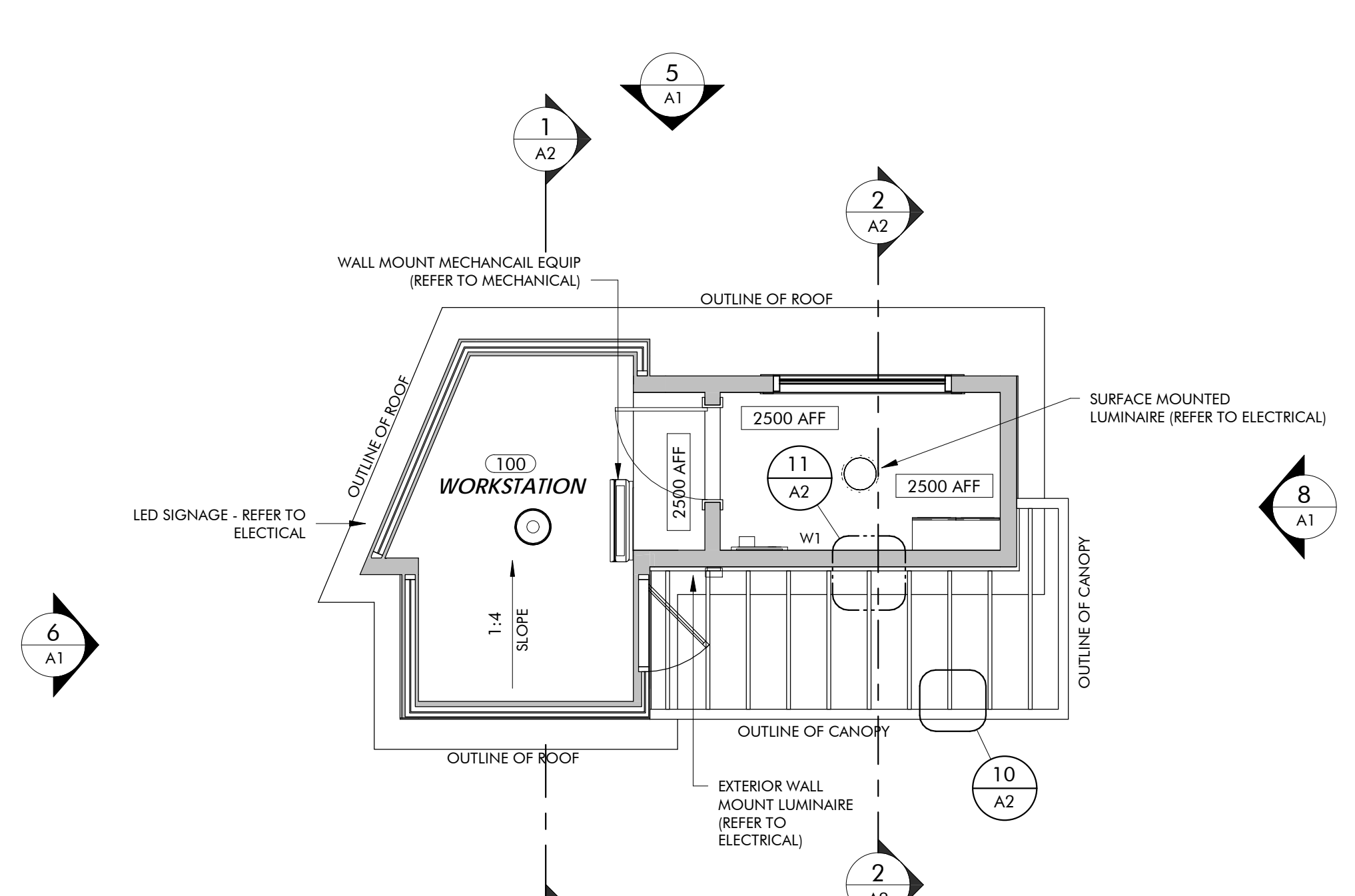
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drawing no no. du dessin

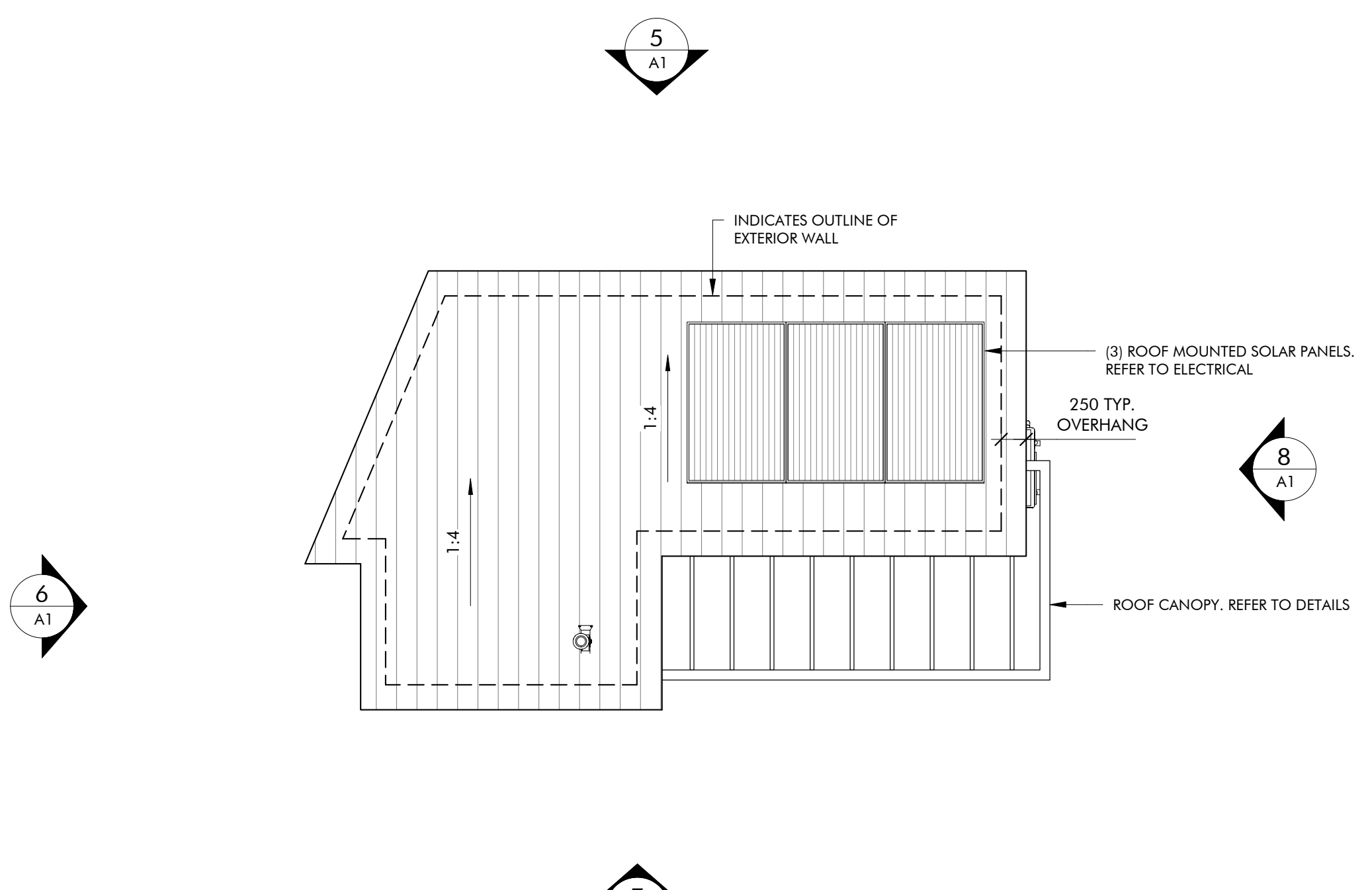
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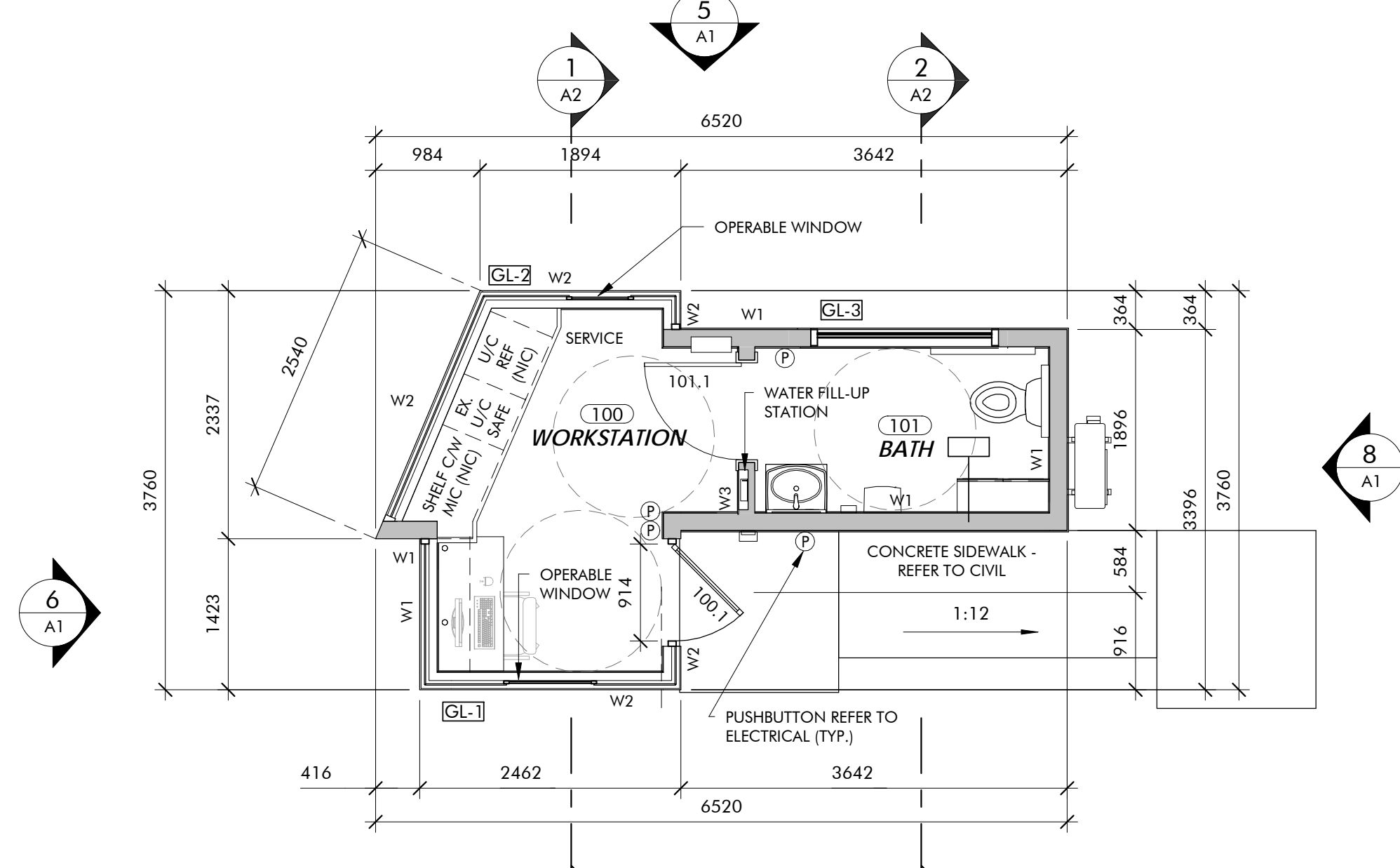
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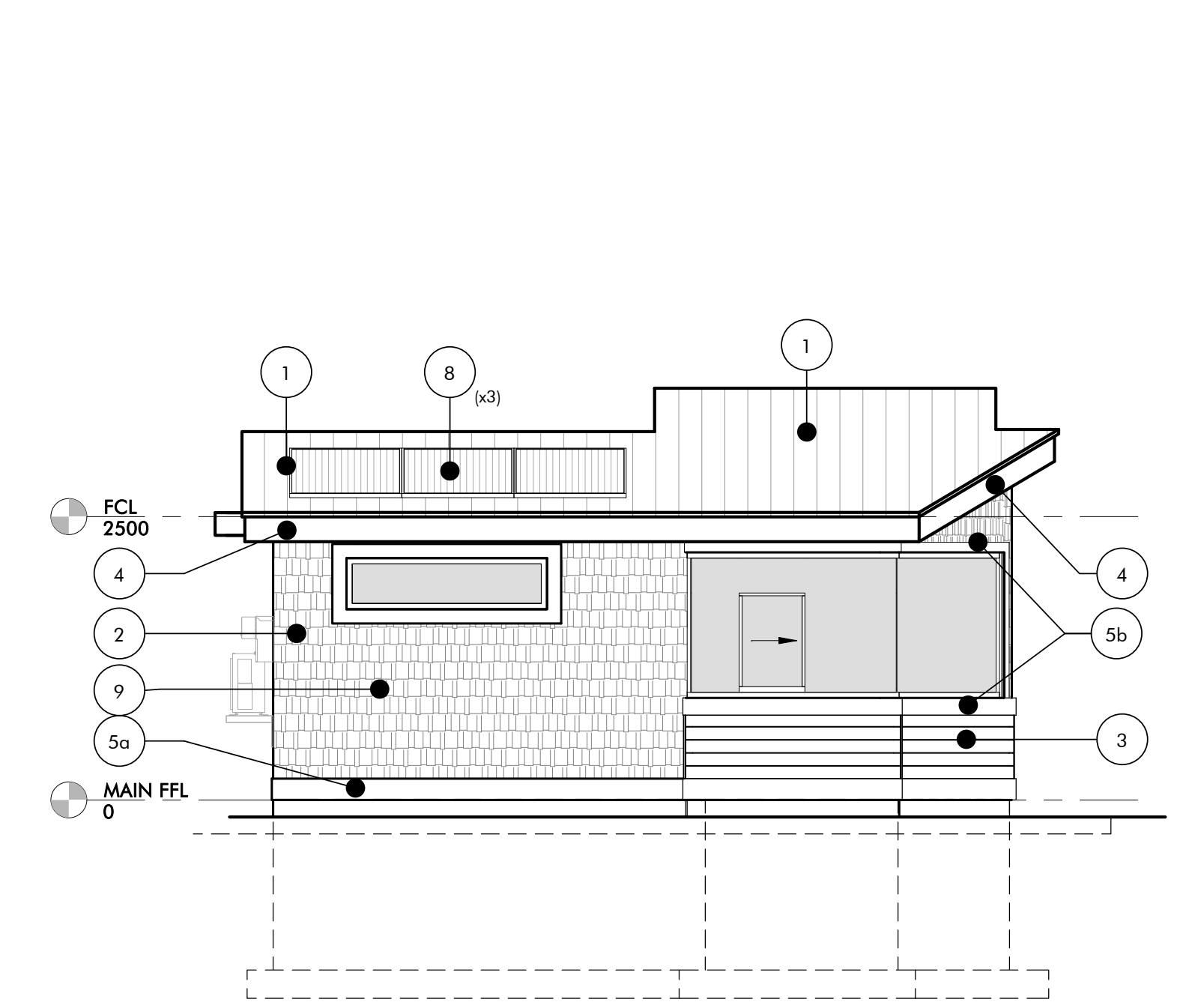
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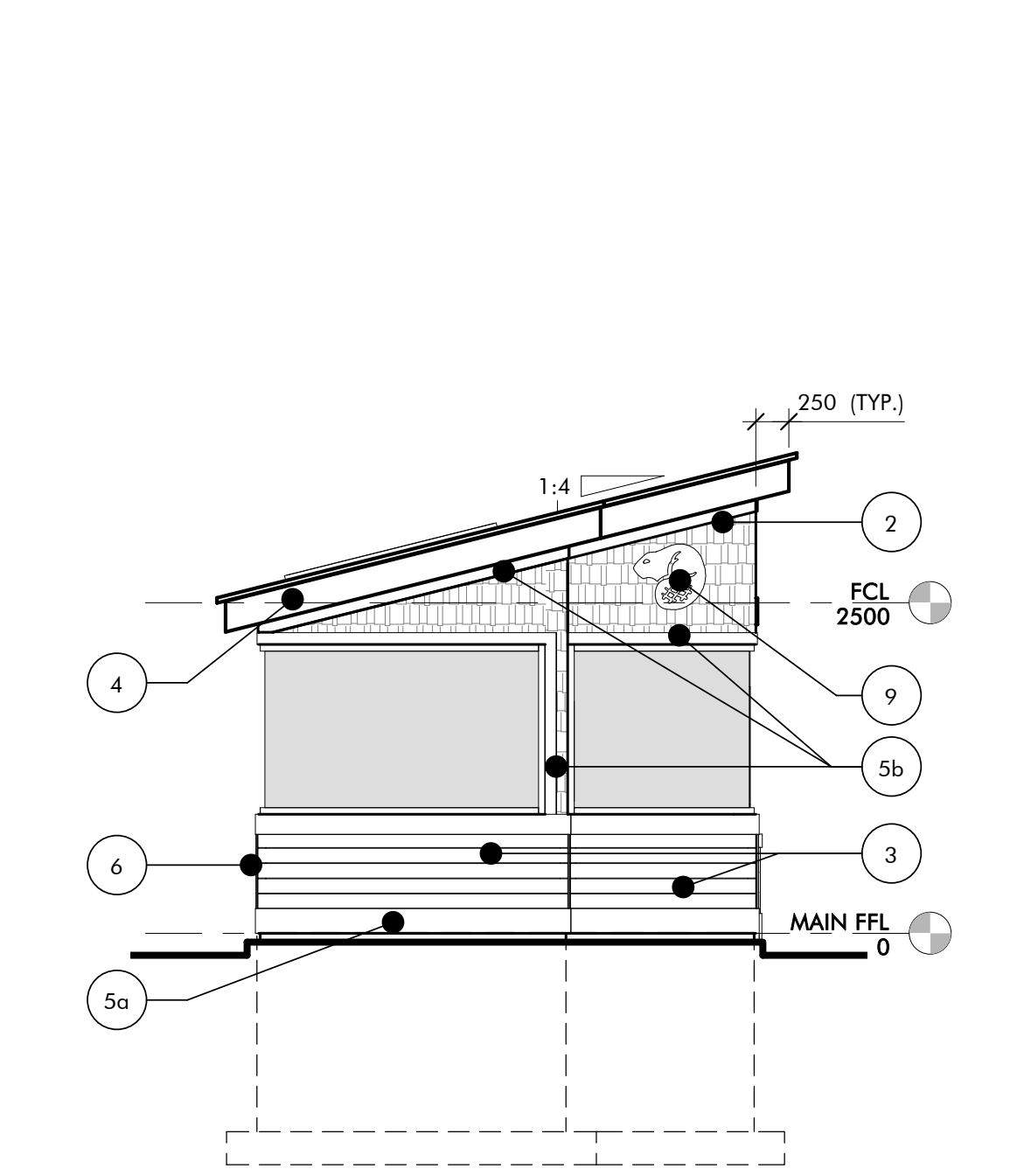
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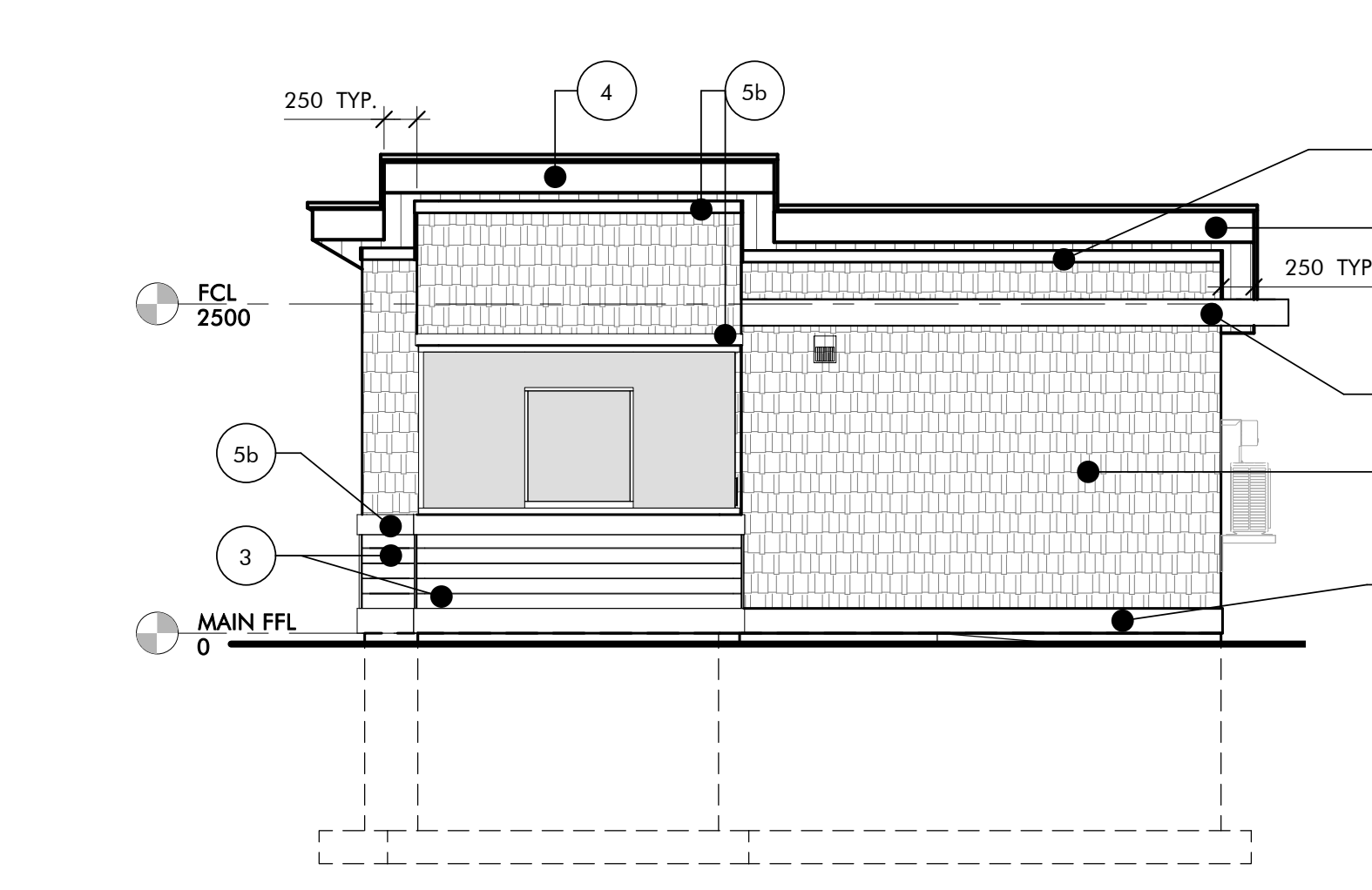
2 MAIN FLOOR PLAN
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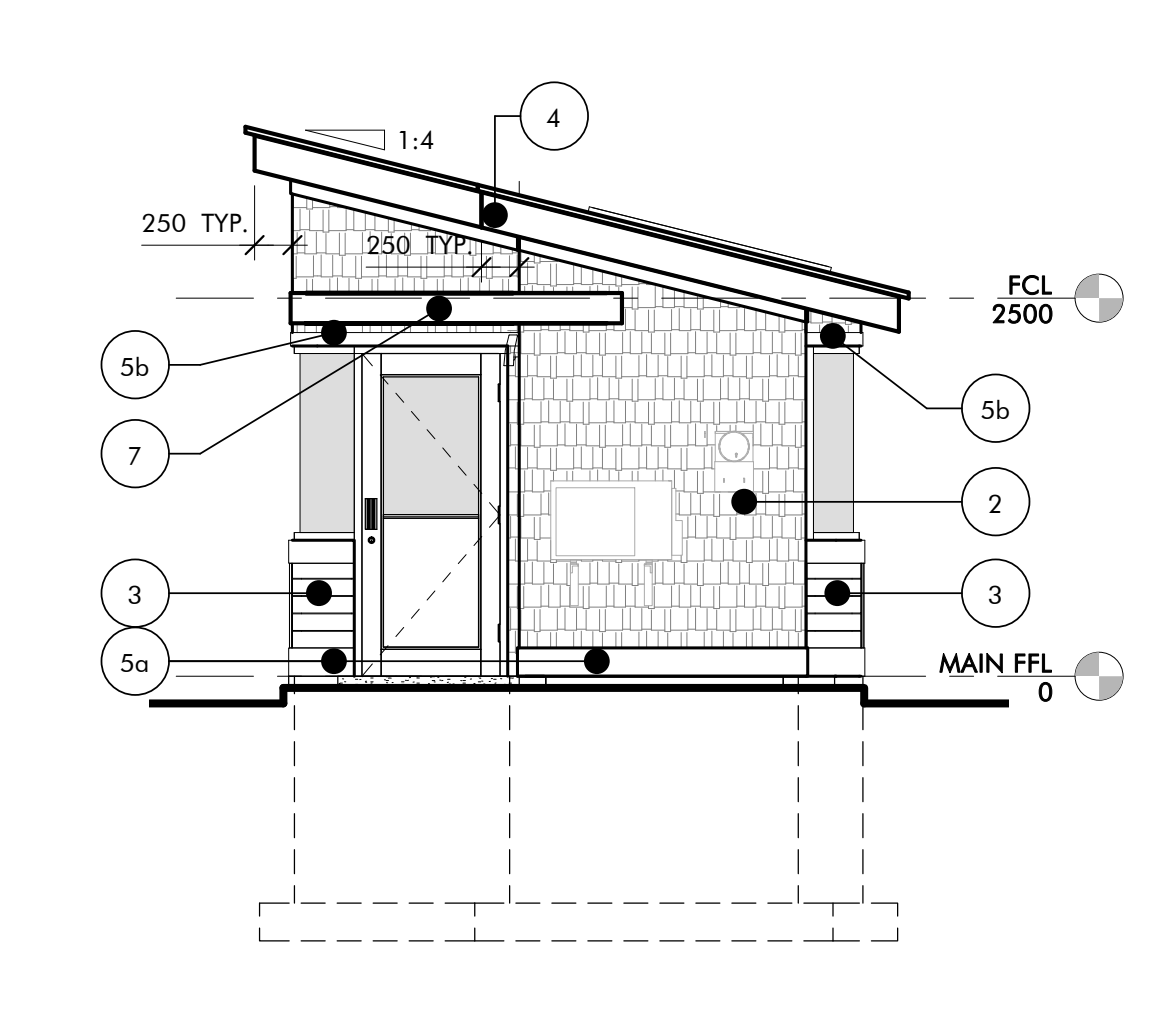
5 SOUTH ELEVATION
1:50



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
 - ti DOOR TAG
 - w1 WALL TAG
 - Ⓟ BARRIER FREE PUSHBUTTON

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 - 10ml 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 - 10ml 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 - PEEB AND STICK NON-PERMEABLE MEMBRANE - 5/8" PLYWOOD SHEATHING - 38mm x 200mm WOOD RAFTER @ MAX 400mm C/C - R60 BATT INSULATION - 10ml POLYVAPOUR BARRIER - 16mm GYPSUM WALL BOARD PAINTED	

TYPE	DESCRIPTION	REMARKS
F1	- CERAMIC TILE FLOOR (REFER TO SPEC) - 100mm REINFORCED CONCRETE SLAB - 10ml POLYVAPOUR BARRIER (TAPED AND SEALED) - 100mm CLASS GRAVEL COMPACTED TO 100% SPMD - APPROVED UNDISTURBED 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.
 - VENT ALL FANS TO OUTSIDE AIR THROUGH VENT C/W HOOD.
 - DOORS, FRAMES AND HARDWARE TO MATCH WALL FIRE RESISTANCE RATING.

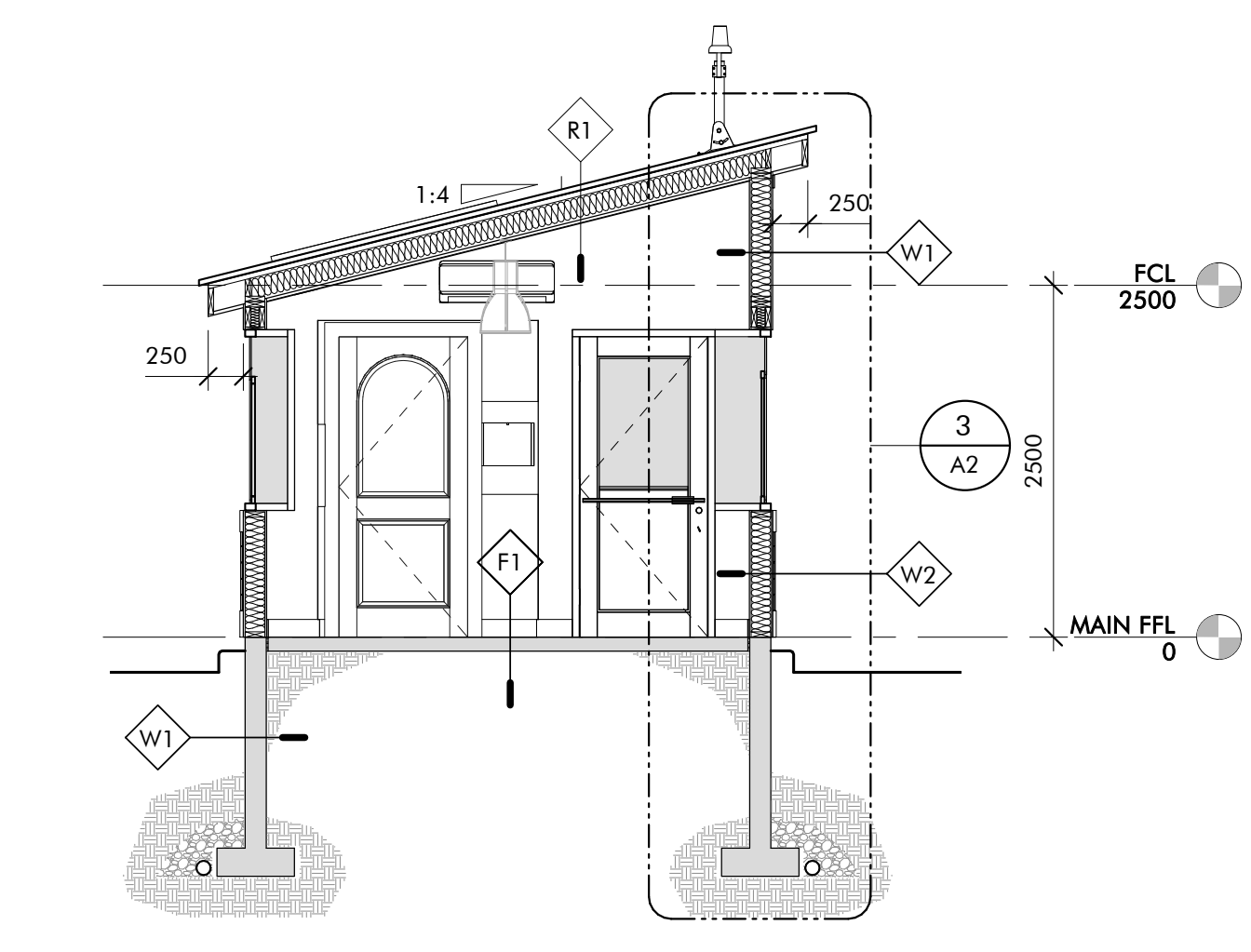


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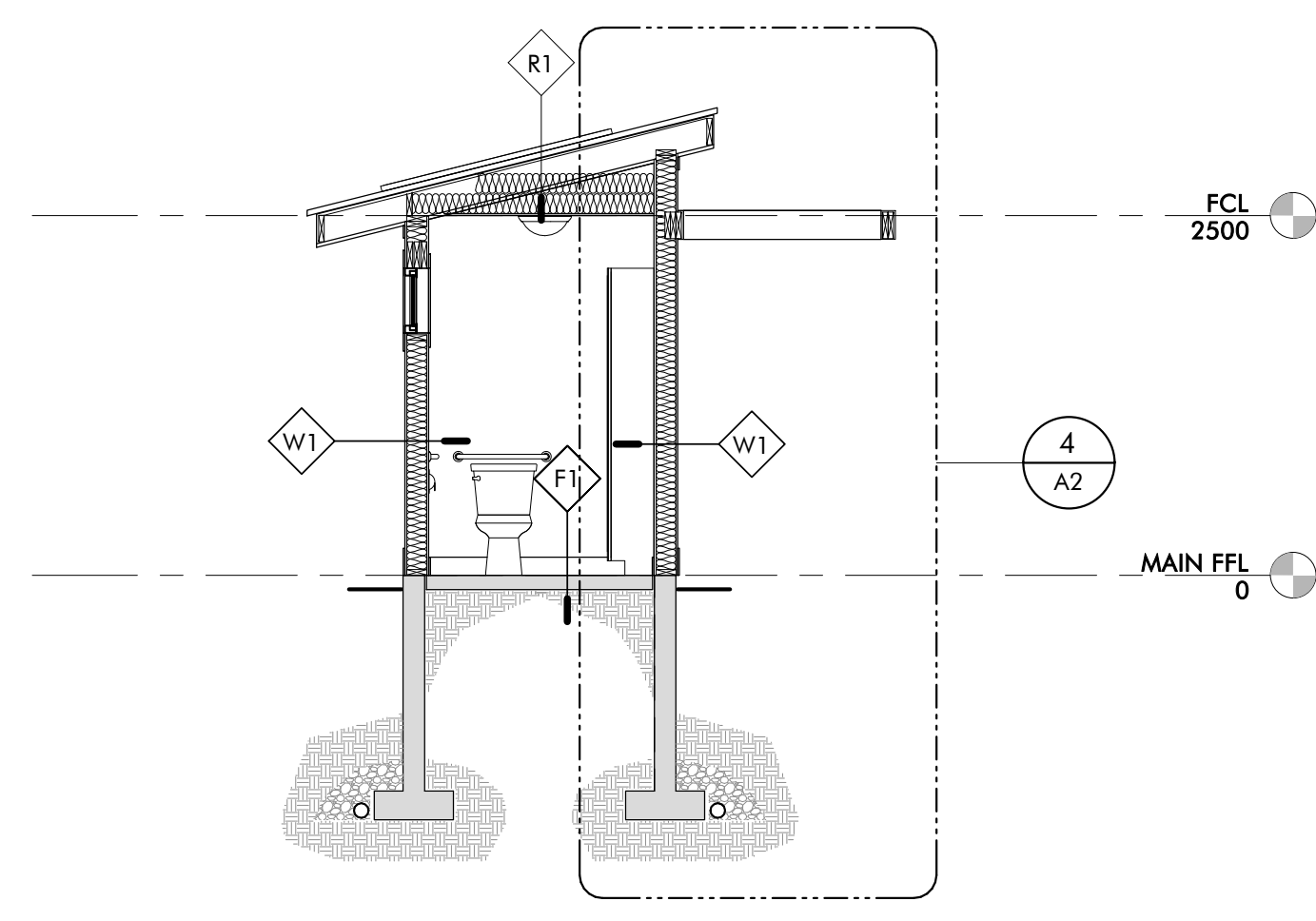
Parks Canada
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PLANS AND ELEVATIONS

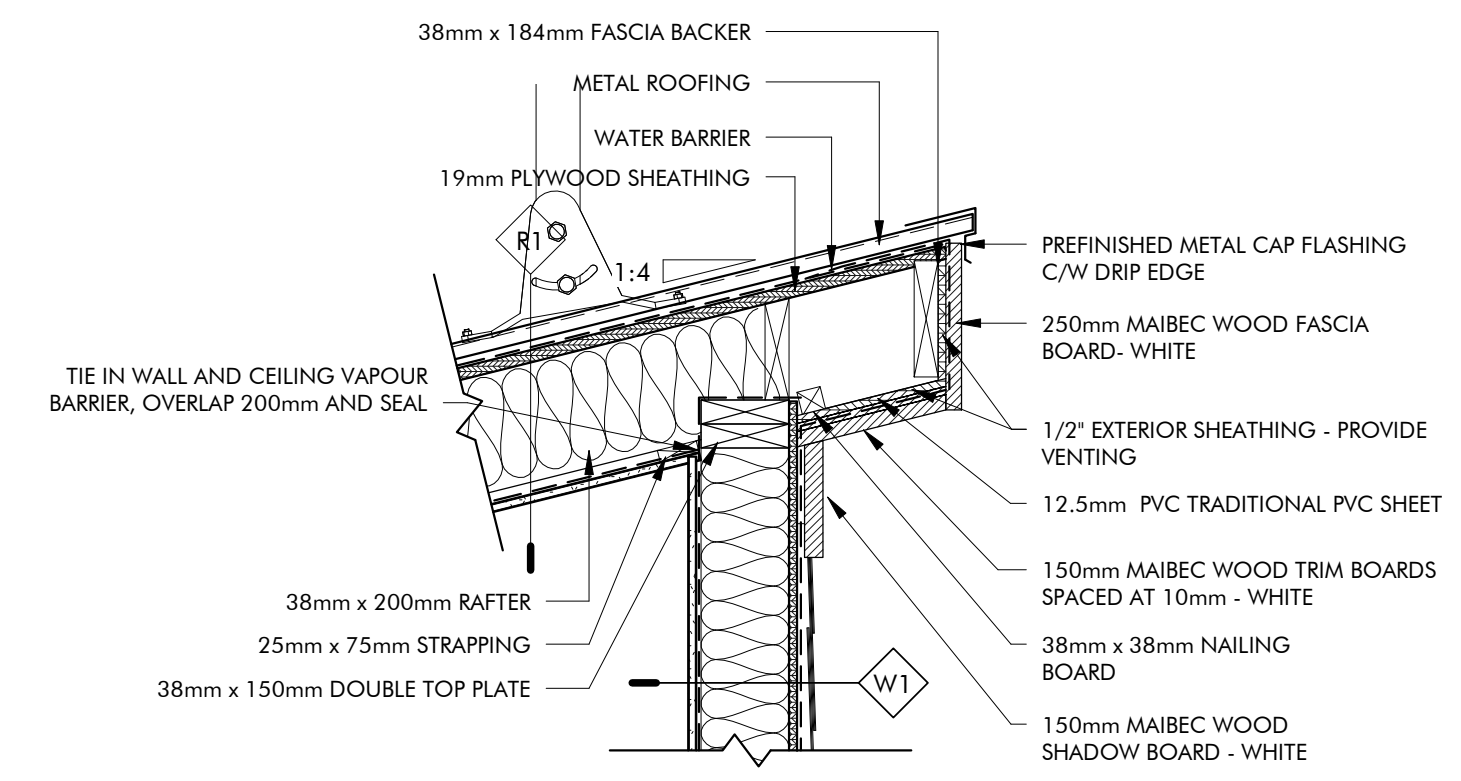
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date	DEC. 8 2017	
drawn	R.C.P.	dessiné
date	DEC. 8 2017	
approved	H.S.C.	approuvé
date	DEC. 8 2017	
Tender		Scumission
PCA Project Manager	Administrateur de projets APC	
project number	171076	no. du projet
drawing no	A1	no. du dessin



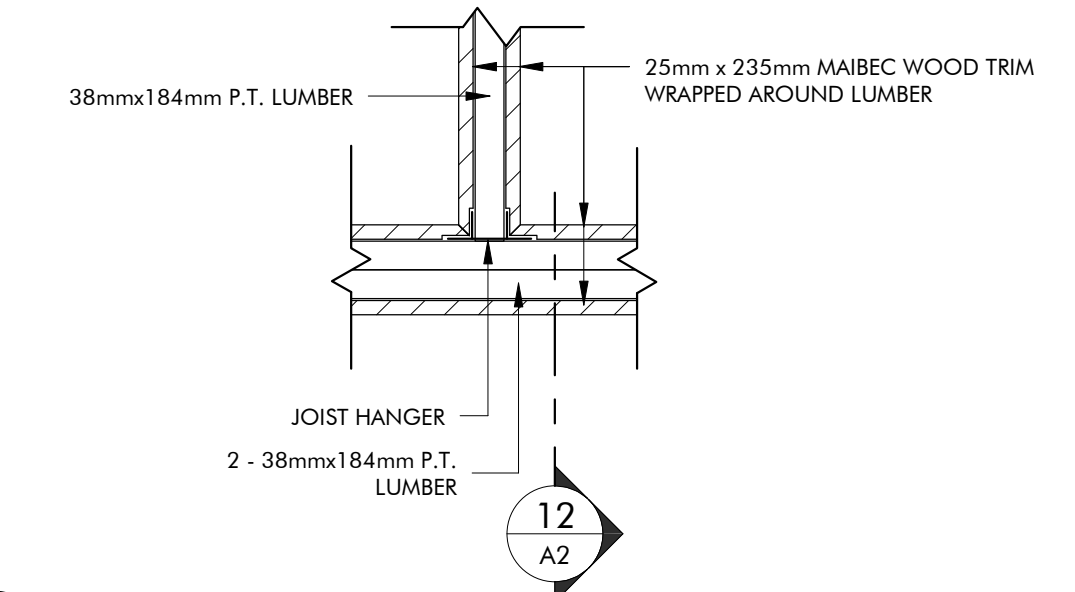
1 SECTION A
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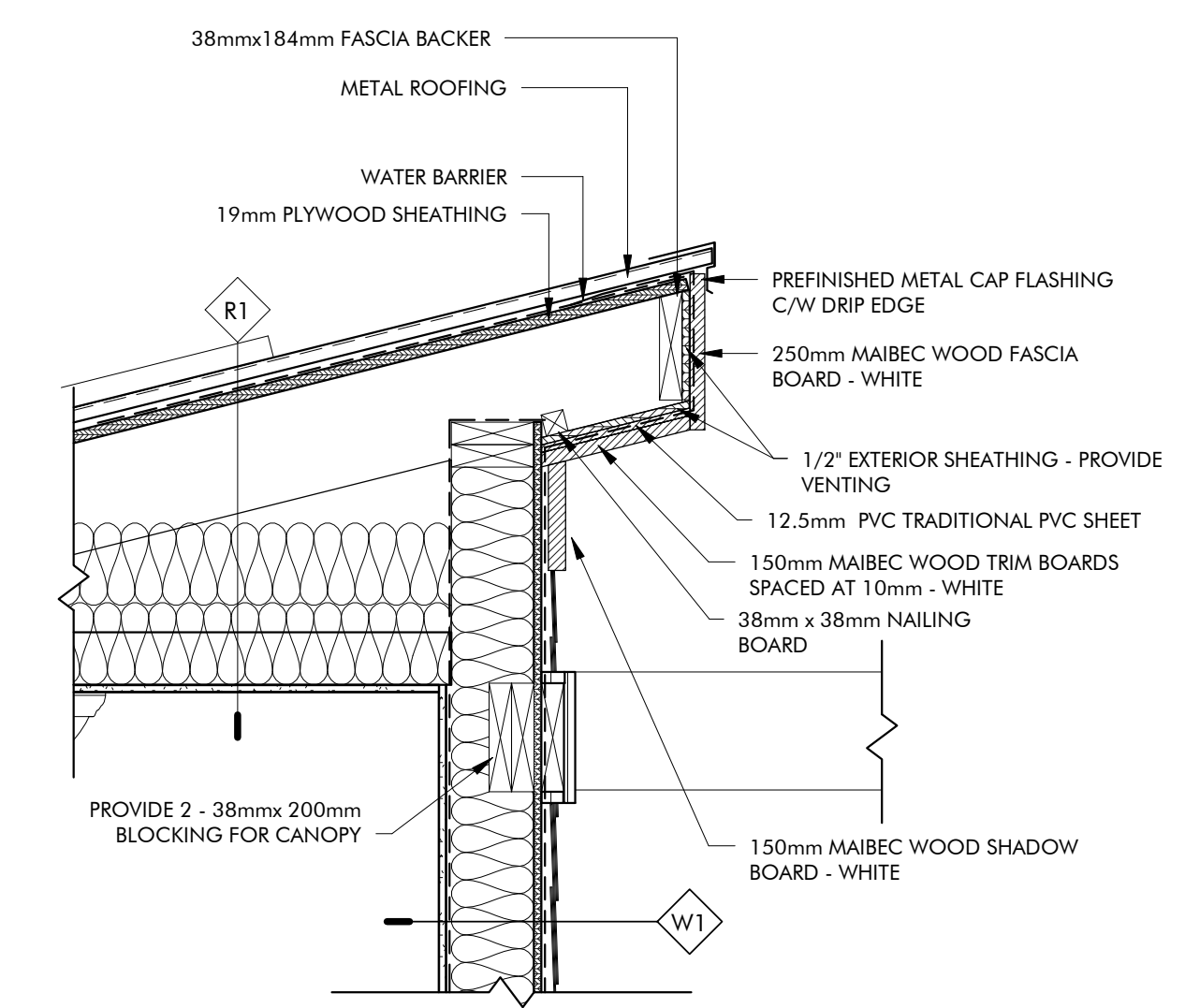
2 SECTION B
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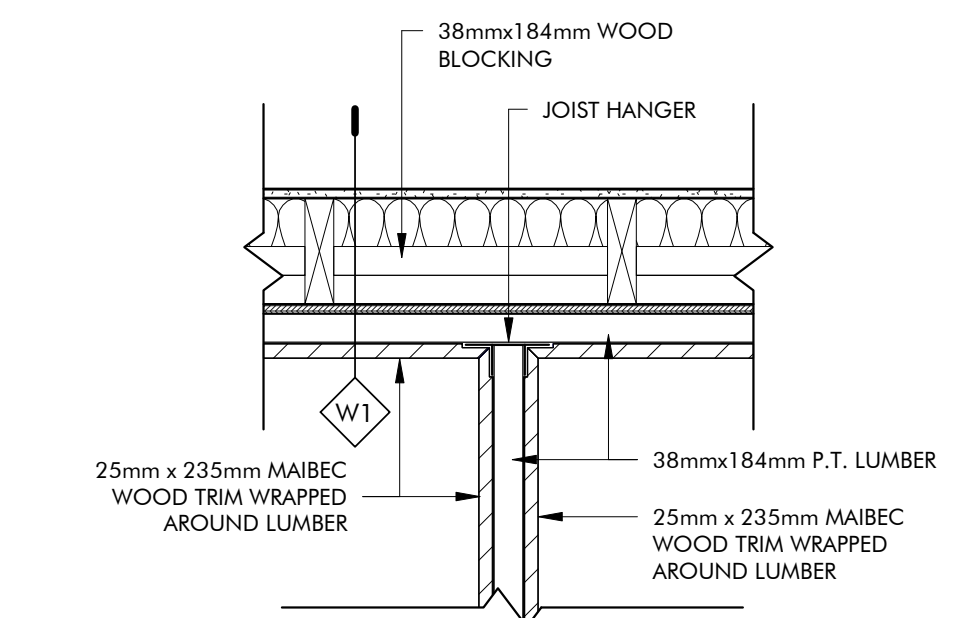
5 TYPICAL EAVE DETAIL
1:12



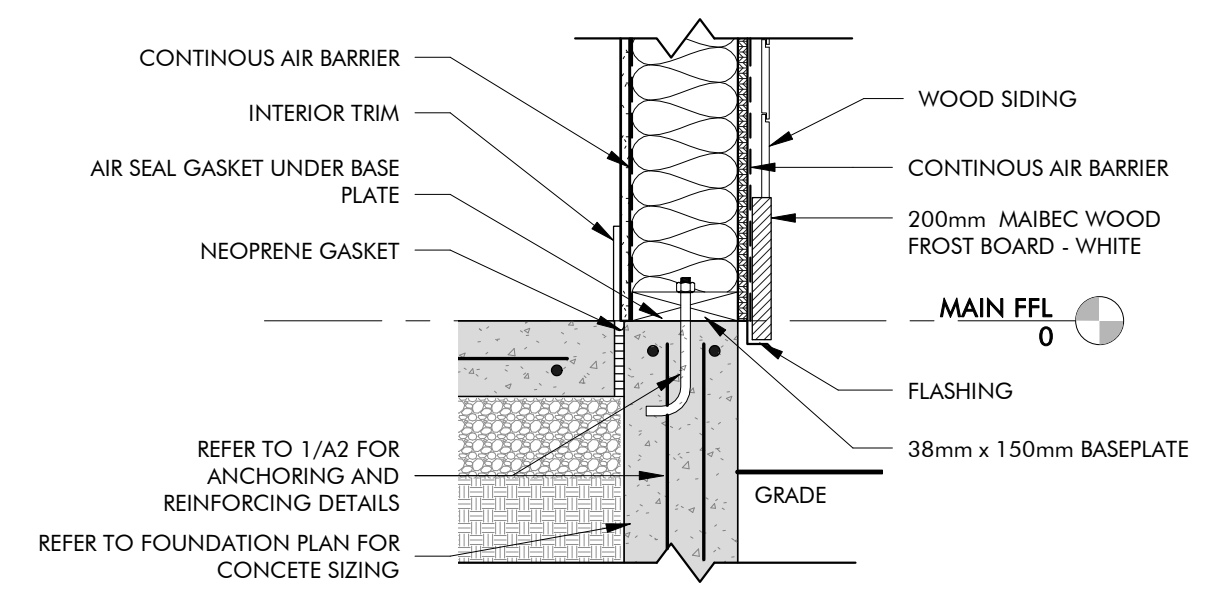
10 CANOPY DETAIL #1
1:10



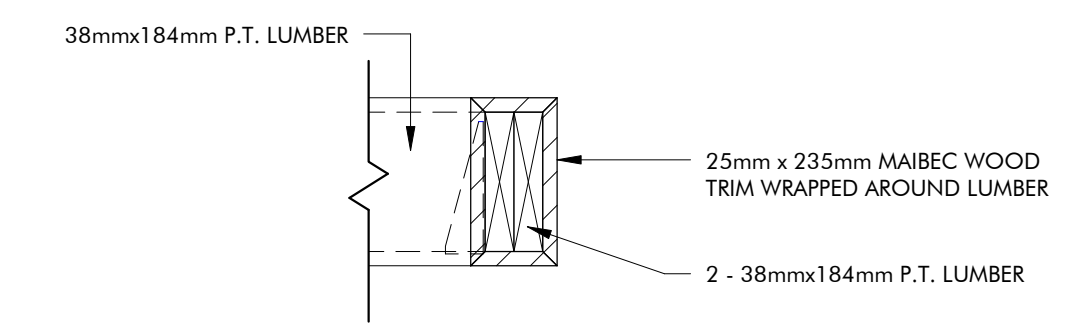
6 EAVE DETAIL #2
1:12



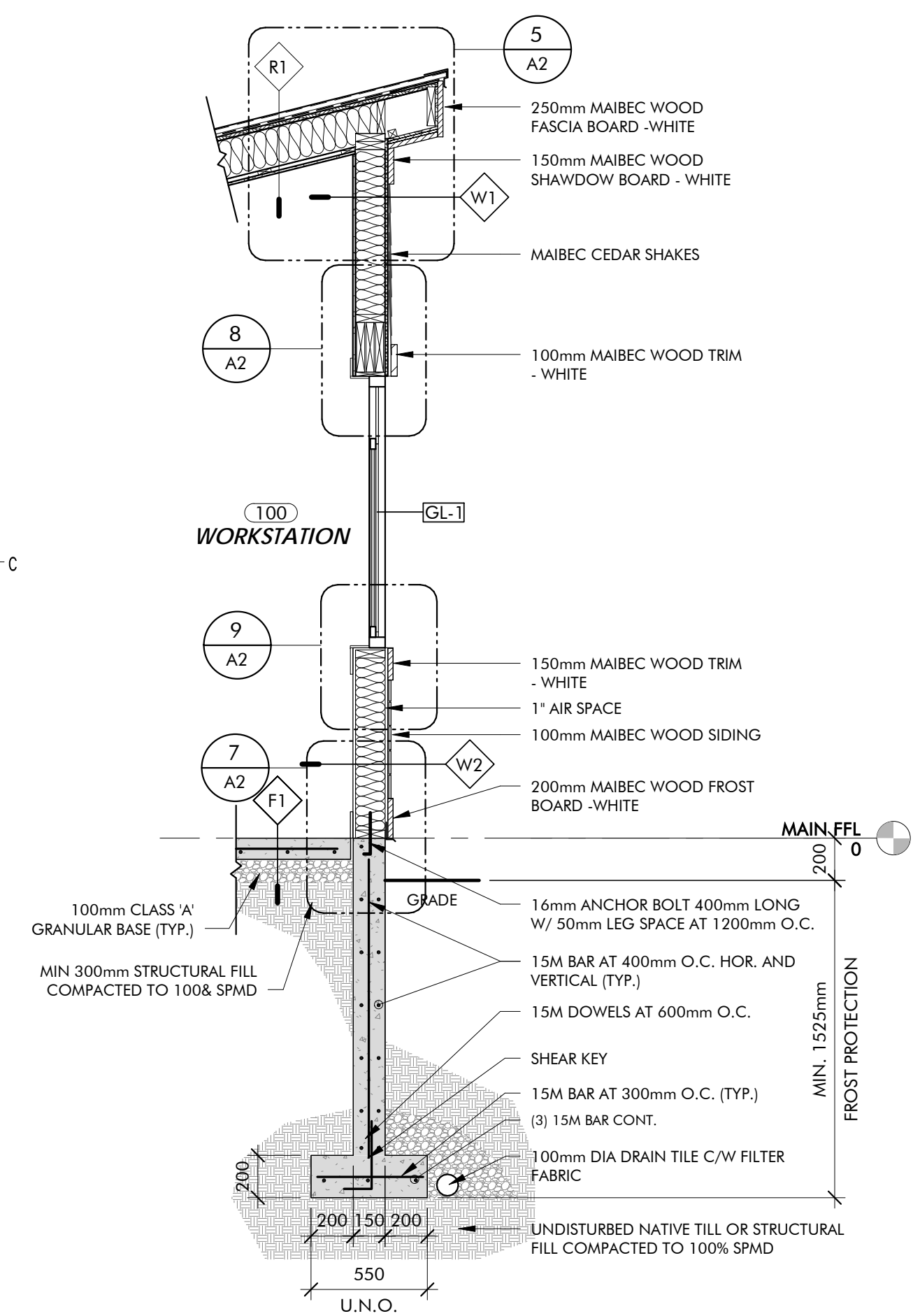
11 CANOPY DETAIL #2
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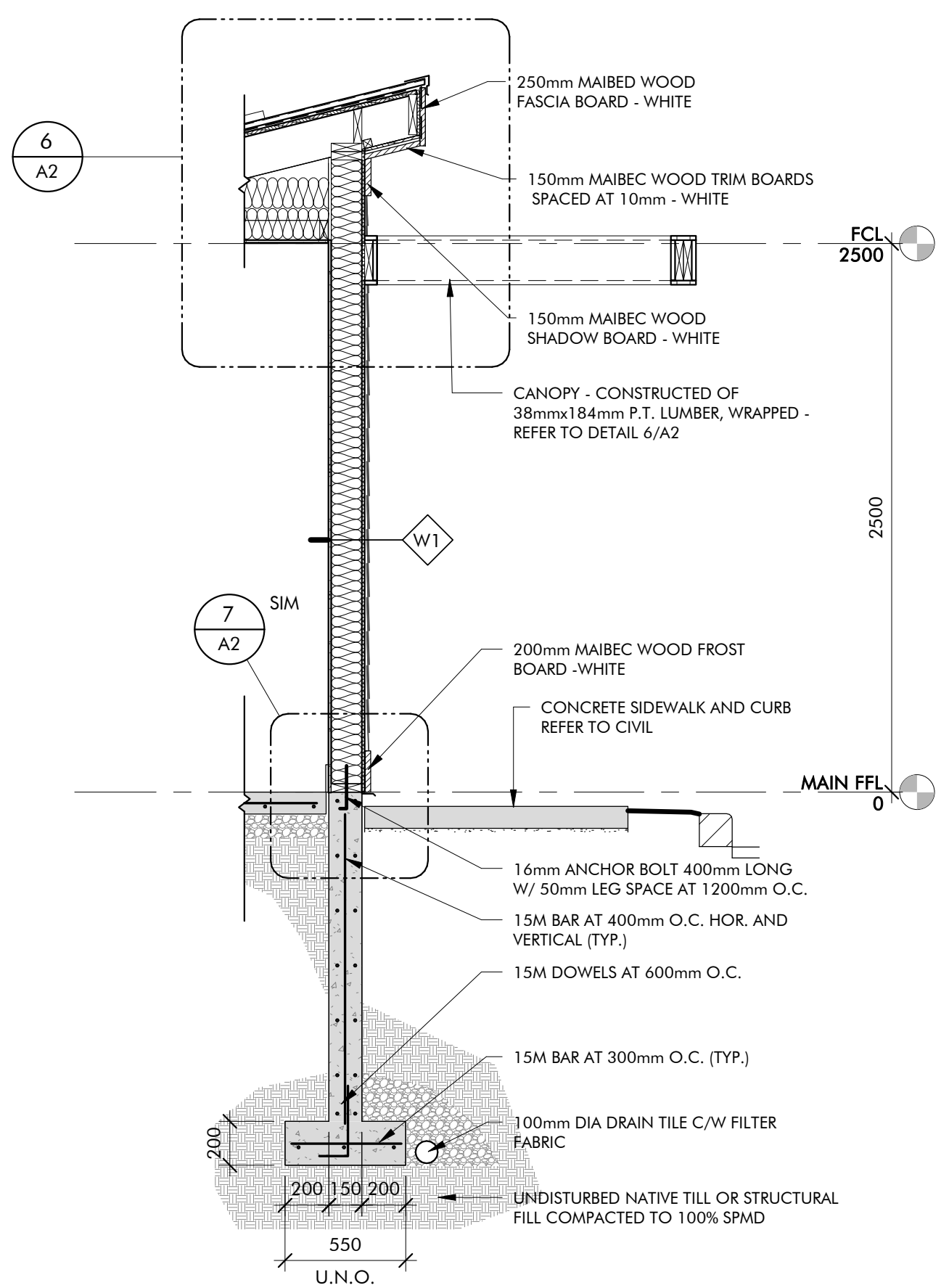
7 WALL TO FOUNDATION DETAIL
1:10



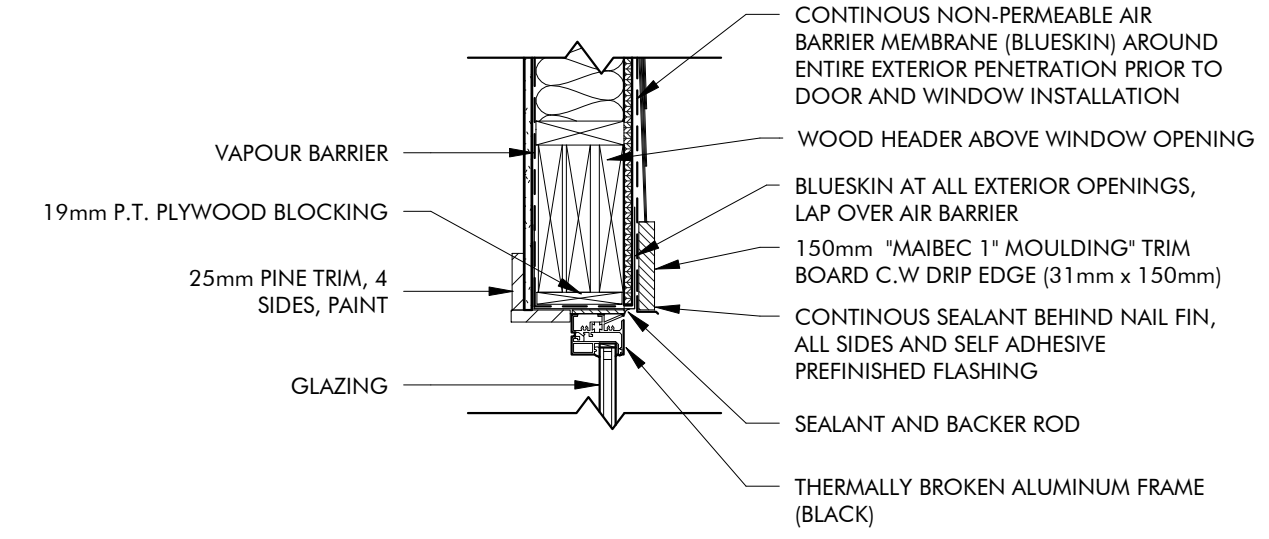
12 CANOPY SECTION #1
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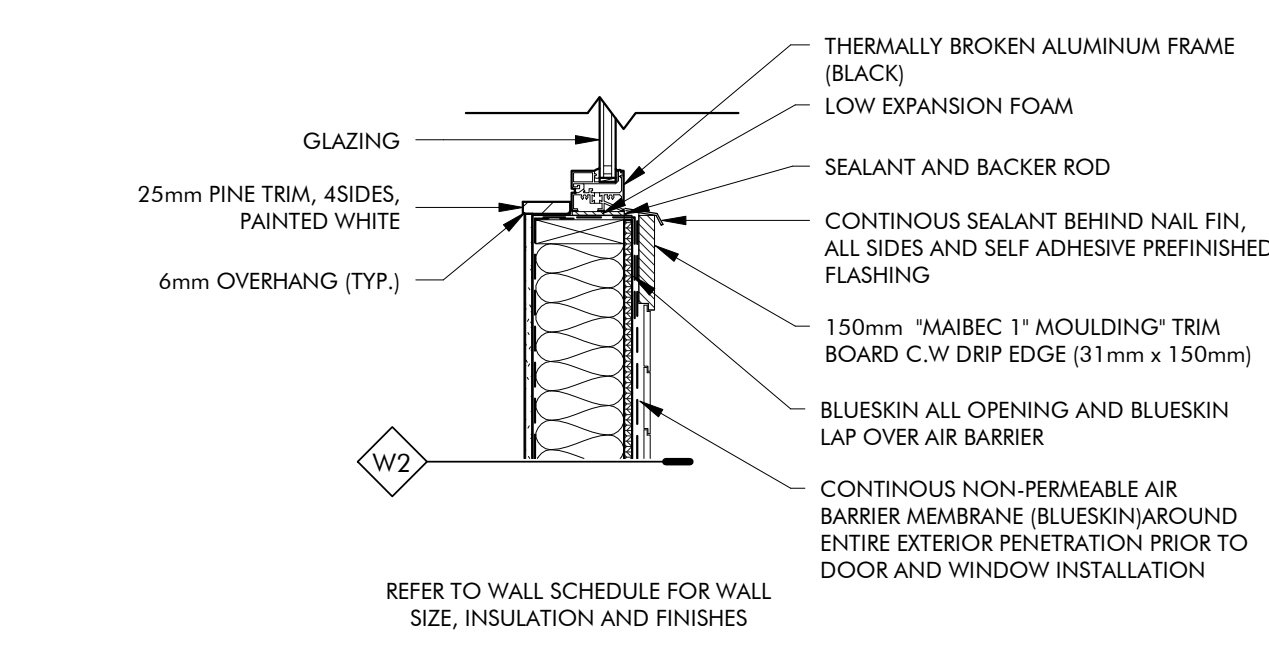
3 WALL SECTION A
1:25



4 WALL SECTION B
1:25



8 WINDOW HEAD DETAIL
1:12



9 WINDOW SILL DETAIL
1:12

TYPE	DESCRIPTION	REMARKS
W1	- EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) - CEDAR BREATHER - CONTINUOUS NOVAVWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16\"/>	
W2	- EXTERIOR WOOD SIDING (REFER TO ELEVATIONS) - 19mm x 64mm WOOD STRAPPING - CEDAR BREATHER - CONTINUOUS NOVAVWRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16\"/>	
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 MEMBRANE - 5/8\"/>	
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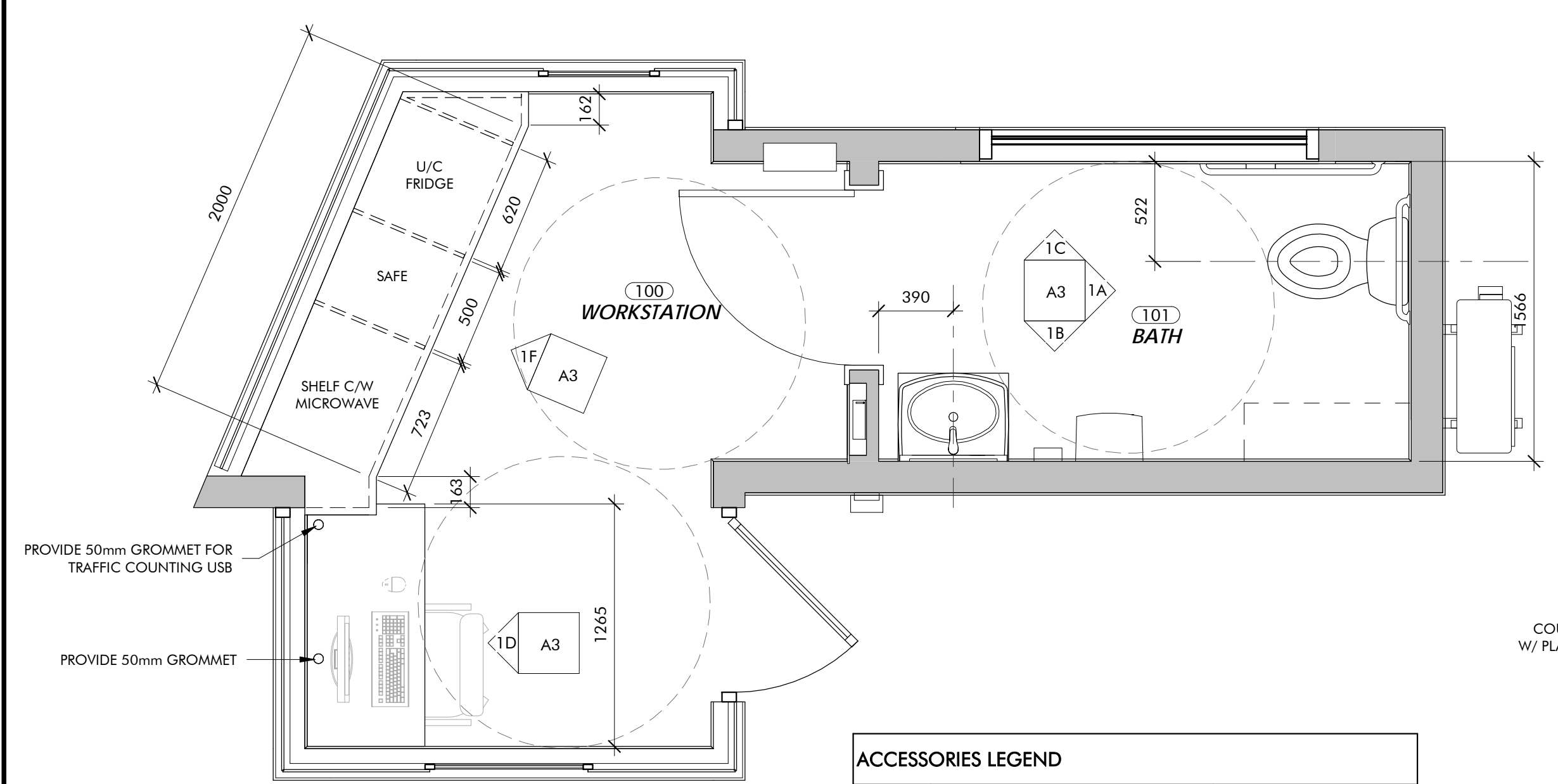
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Parks Canada
Kiosks Phase
1

BUILDING SECTIONS,
WALL SECTIONS AND DETAILS

designed	Designer	conçu
date	DEC. 8 2017	
drawn	Author	dessiné
date	DEC. 8 2017	
approved	Approver	approuvé
date	DEC. 8 2017	
Tender		Submission

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171076	
drawing no	no. du dessin
A2	



ACCESSORIES LEGEND

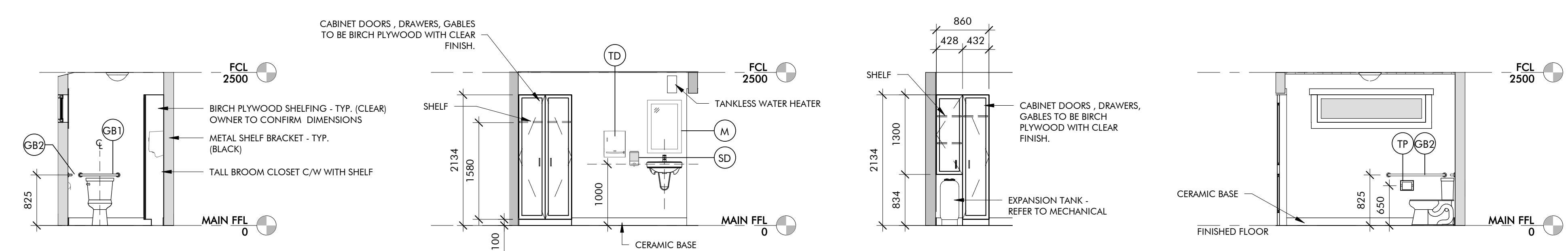
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
GB1	610mm GRAB BAR	750mm-850mm
GB2	914mm GRAB BAR	750mm-850mm
M	MIRROR	BASE = 1000mm MAX
PD	PAPER TOWEL DISPENSOR	1000mm
SD	SOAP DISPENSOR	1000mm
TP	TOILET PAPER DISPENSOR	1000mm

NOTE: CONFIRM ALL ACCESSORIES COMPLY WITH CSA STANDARDS PRIOR TO INSTALLATION.

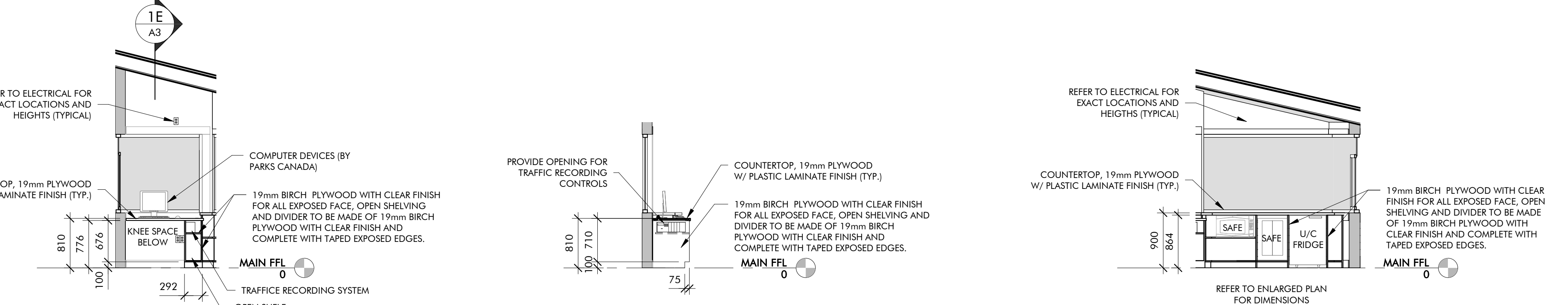
1 ENLARGED PLAN
A3 1:25

CASEWORK NOTES

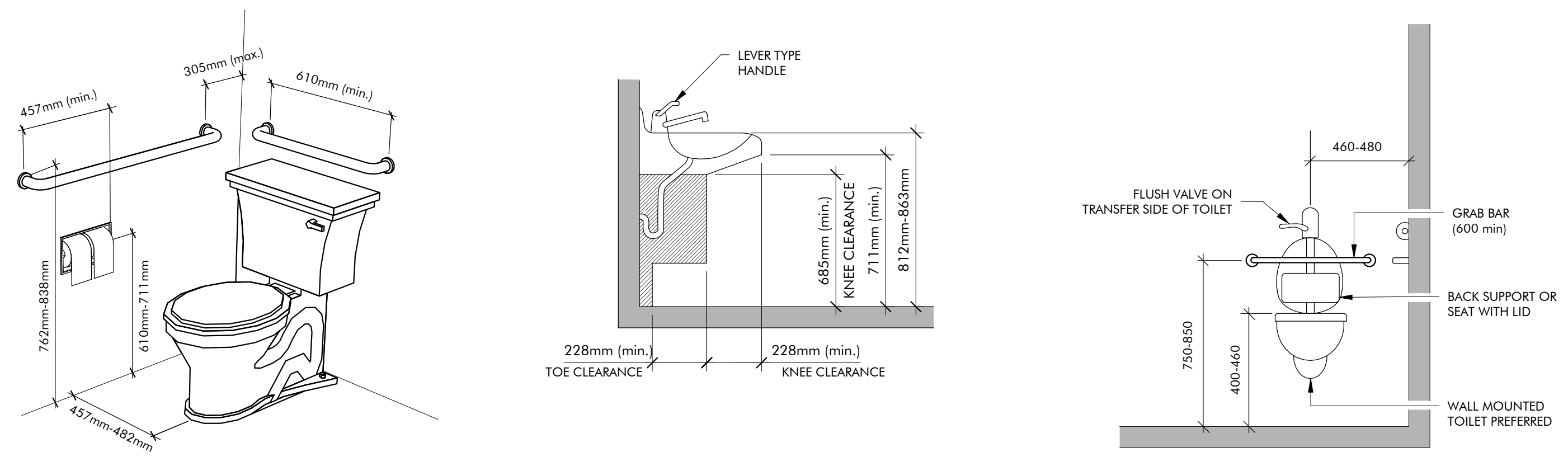
- CABINETS-INTERIOR
TYPICAL: 19mm MELAMINE, (WHITE) NO EXPOSED EDGES
- CABINET DOORS, DRAWERS, CABLES & EXPOSED SHELVES
TYPICAL: 19mm PLYWOOD WITH PLASTIC LAMINATE.
- COUNTERTOP:
19mm PLYWOOD WITH PLASTIC LAMINATE. REFER TO MILLWORK DRAWINGS.
- STANDARDS FOR SHELVES TO BE RECESSED.
- HARDWARE AS PER SPECIFICATIONS
- USE ONLY FULL P-LAM SHEETS WHERE POSSIBLE.



1A BATHROOM ELEVATION 'A' **1B BATHROOM ELEVATION 'B' - BAYSHORE & CAWNPORE** **1B1 BATHROOM ELEVATION 'B' - RUSTICO & DALVAY** **1C BATHROOM ELEVATION 'C'**



1D WORKSTATION ELEVATION 1 **1E WORKSTATION SECTION** **1F WORKSTATION ELEVATION 2**



2 CSA BARRIER FREE WASHROOM DETAILS
A3 1:20

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

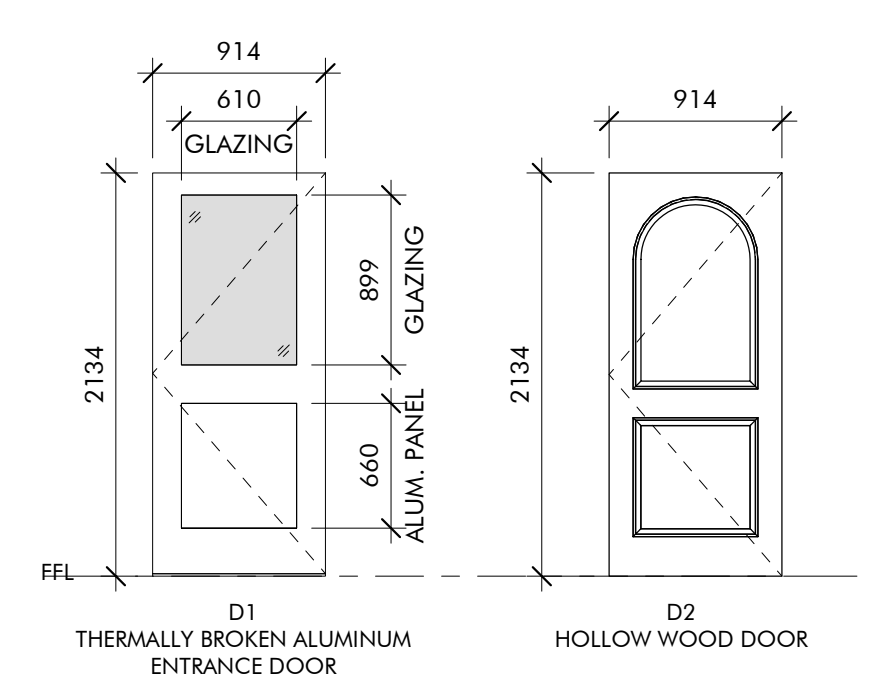
FLOOR	WALL	CEILING
ABBR	ABBR	ABBR
CT	PT PAINT	GWB GYPSUM WALL BOARD - PAINTED
	GWB GYPSUM WALL BOARD - PAINTED	PT PAINT

DOOR SCHEDULE AND FRAME SCHEDULE

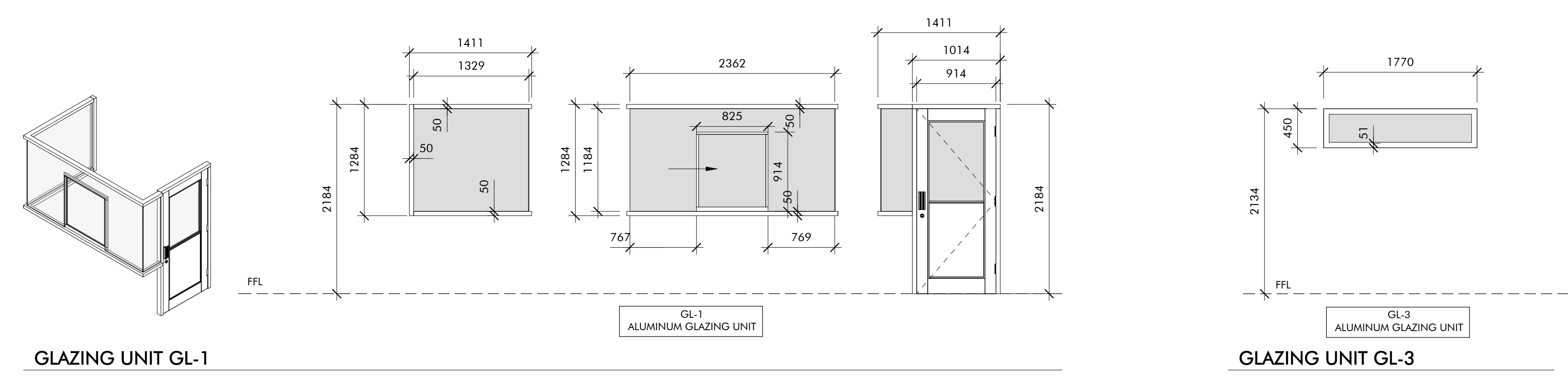
DOOR NO.	TYPE	WIDTH (mm)	HEIGHT (mm)	THICKNESS (mm)	DOOR				FRAME		COMMENTS
					MATERIAL	FINISH	GLASS TYPE	MATERIAL	FINISH		
100.1	D-1	914	2134	51	ALUM	ANOD	GL-1	ALUM-TB	PT		
101.1	D-2	914	2134	35	WD	PT		WD	PT		
101.2	D-2	914	2134	35	WD	PT		WD	PT		

DOOR & FRAME SCHEDULE ABBREVIATIONS

ALUM	ALUMINUM
ANOD	ANODIZED
GL-1	INSULATED
GL-T	TEMPERED GLASS - CLEAR
PS	PRESS STEEL
PS-TB	PRESS STEEL - THERMALLY BROKEN
PT	PAINT



DOOR ELEVATIONS



GLAZING UNIT GL-1

GLAZING UNIT GL-2

GLAZING UNIT GL-3



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drawing		project

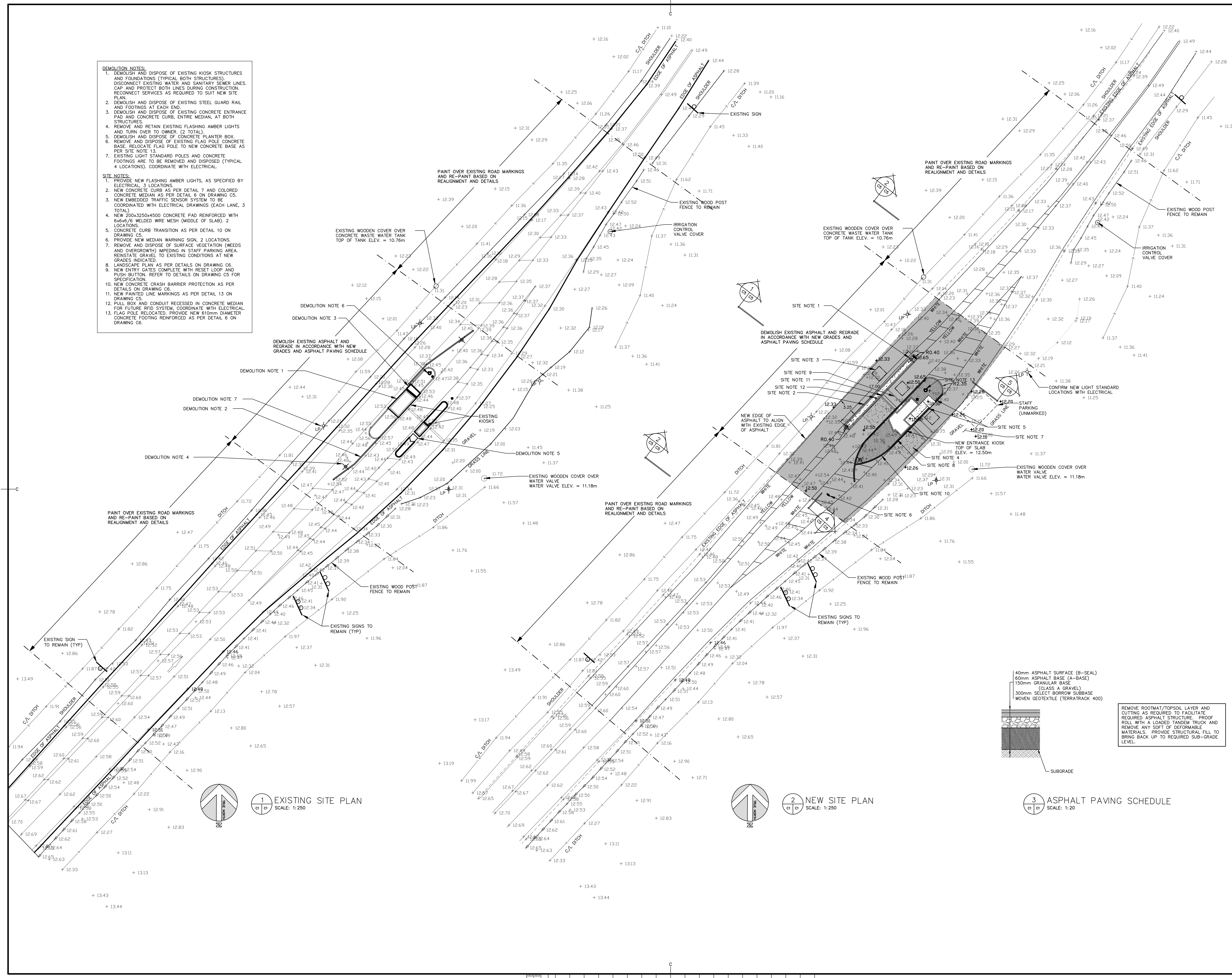
Parks Canada
Kiosks Phase
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drawing design
WINDOW & DOOR SCHEDULES, ELEVATIONS AND MILLWORK

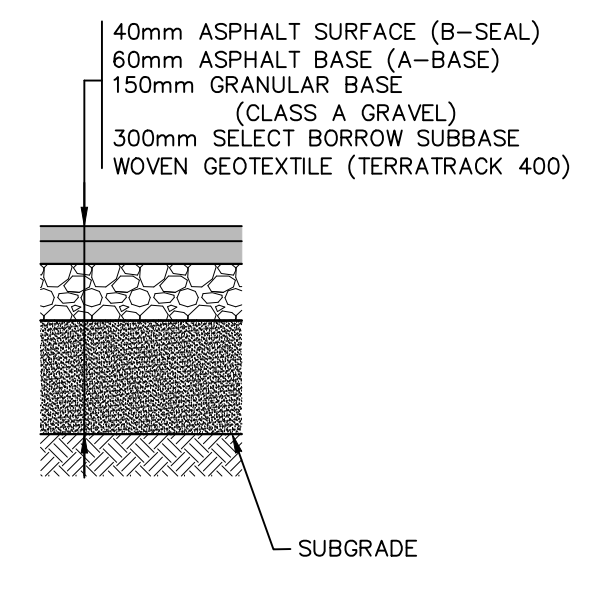
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drawn	R.C.P.	dessiné
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PCA Project Manager	Administrateur de projets APC
project number	no. du projet
171076	
drawing no	no. du dessin
A3	

- DEMOLITION NOTES:**
- DEMOLISH AND DISPOSE OF EXISTING KIOSK STRUCTURES AND FOUNDATIONS (TYPICAL BOTH STRUCTURES). DISCONNECT EXISTING WATER AND SANITARY SEWER LINES. CAP AND PROTECT BOTH LINES DURING CONSTRUCTION. RECONNECT SERVICES AS REQUIRED TO SUIT NEW SITE PLAN.
 - DEMOLISH AND DISPOSE OF EXISTING STEEL GUARD RAIL AND FOOTINGS AT EACH END.
 - DEMOLISH AND DISPOSE OF EXISTING CONCRETE ENTRANCE PAD AND CONCRETE CURB, ENTIRE MEDIAN, AT BOTH STRUCTURES.
 - REMOVE AND RETAIN EXISTING FLASHING AMBER LIGHTS AND TURN OVER TO OWNER. (2 TOTAL).
 - DEMOLISH AND DISPOSE OF CONCRETE PLANTER BOX.
 - REMOVE AND DISPOSE OF EXISTING FLAG POLE CONCRETE BASE. RELOCATE FLAG POLE TO NEW CONCRETE BASE AS PER SITE NOTE 13.
 - EXISTING LIGHT STANDARD POLES AND CONCRETE FOOTINGS ARE TO BE REMOVED AND DISPOSED (TYPICAL 4 LOCATIONS). COORDINATE WITH ELECTRICAL.
- SITE NOTES:**
- PROVIDE NEW FLASHING AMBER LIGHTS, AS SPECIFIED BY ELECTRICAL, 3 LOCATIONS.
 - NEW CONCRETE CURBS AS PER DETAIL 7 AND COLORED CONCRETE MEDIAN AS PER DETAIL 6 ON DRAWING C5.
 - NEW EMBEDDED TRAFFIC SENSOR SYSTEM TO BE COORDINATED WITH ELECTRICAL DRAWINGS (EACH LANE, 3 TOTAL).
 - NEW 200x3250x4500 CONCRETE PAD REINFORCED WITH 6x6x6/6 WELDED WIRE MESH (MIDDLE OF SLAB), 2 LOCATIONS.
 - CONCRETE CURB TRANSITION AS PER DETAIL 10 ON DRAWING C5.
 - PROVIDE NEW MEDIAN WARNING SIGN, 2 LOCATIONS.
 - REMOVE AND DISPOSE OF SURFACE VEGETATION (WEEDS AND OVERGROWTH) IMPEDING IN STAFF PARKING AREA. REINSTATE GRAVEL TO EXISTING CONDITIONS AT NEW GRADES INDICATED.
 - LANDSCAPE PLAN AS PER DETAILS ON DRAWING C6.
 - NEW ENTRY GATES COMPLETE WITH RESET LOOP AND PUSH BUTTON. REFER TO DETAILS ON DRAWING C5 FOR SPECIFICATION.
 - NEW CONCRETE CRASH BARRIER PROTECTION AS PER DETAILS ON DRAWING C6.
 - PULL BOX AND CONDUIT RECESSED IN CONCRETE MEDIAN FOR FUTURE RFID SYSTEM. COORDINATE WITH ELECTRICAL.
 - FLAG POLE RELOCATED. PROVIDE NEW 610mm DIAMETER CONCRETE FOOTING REINFORCED AS PER DETAIL 5 ON DRAWING C6.



- LEGEND**
- EXISTING DITCH
 - EDGE OF ASPHALT
 - NEW ROAD MARKINGS
 - EXISTING FENCE
 - EXISTING GRADE
 - PROPOSED GRADE
 - ASPHALT FINISH
 - CAST IN PLACE CONCRETE
 - SITE FINISH
 - FLASHING AMBER LIGHT
 - LIGHT POLE
 - TRAFFIC LIGHT w/ CONDUIT
 - FLAG POLE
 - EXISTING WELL



REMOVE ROOTMAT/TOPSOIL LAYER AND CUTTING AS REQUIRED TO FACILITATE REQUIRED ASPHALT STRUCTURE. PROOF ROLL WITH A LOADED TANDEM TRUCK AND REMOVE ANY SOFT OF DEFORMABLE MATERIALS. PROVIDE STRUCTURAL FILL TO BRING BACK UP TO REQUIRED SUB-GRADE LEVEL.

1 EXISTING SITE PLAN
SCALE: 1:250

2 NEW SITE PLAN
SCALE: 1:250

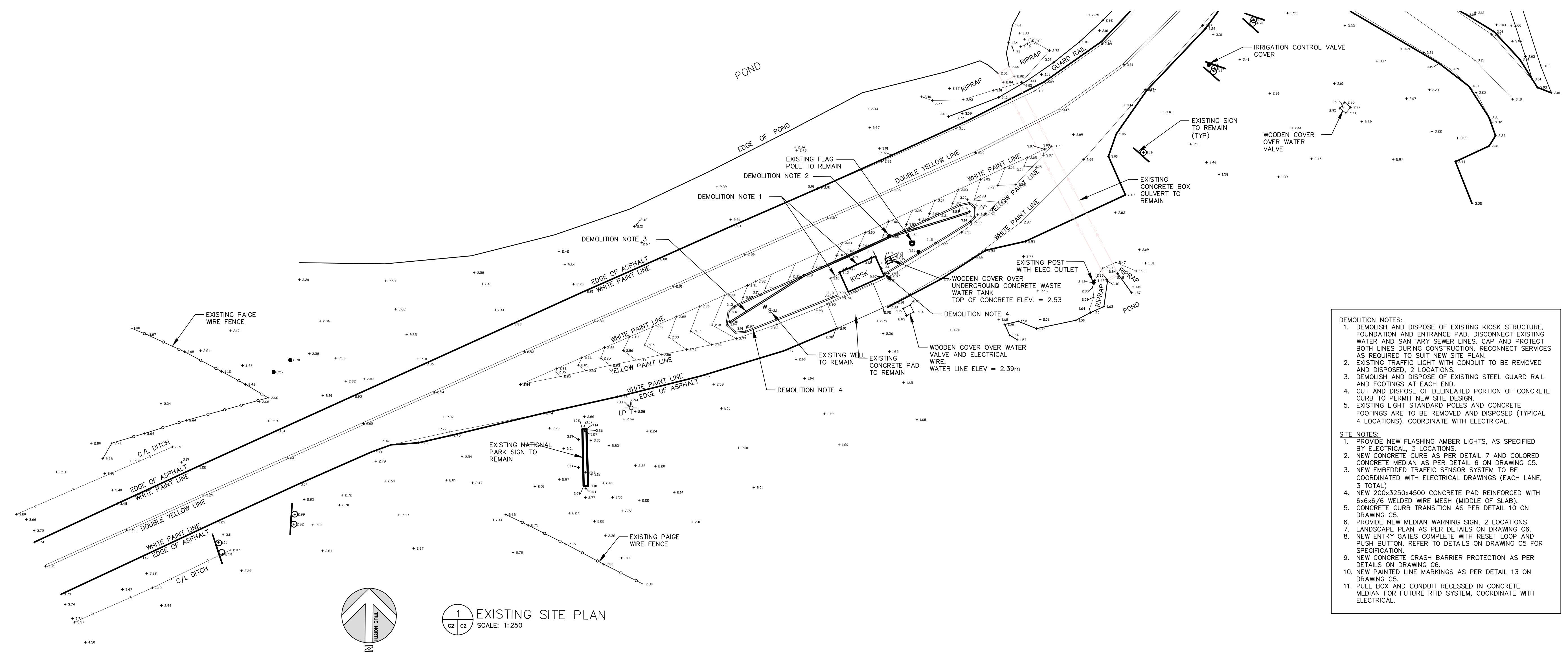
3 ASPHALT PAVING SCHEDULE
SCALE: 1:20

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project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

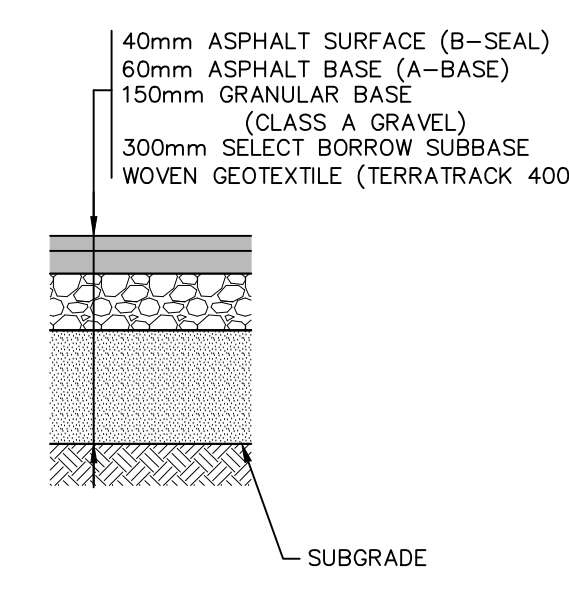
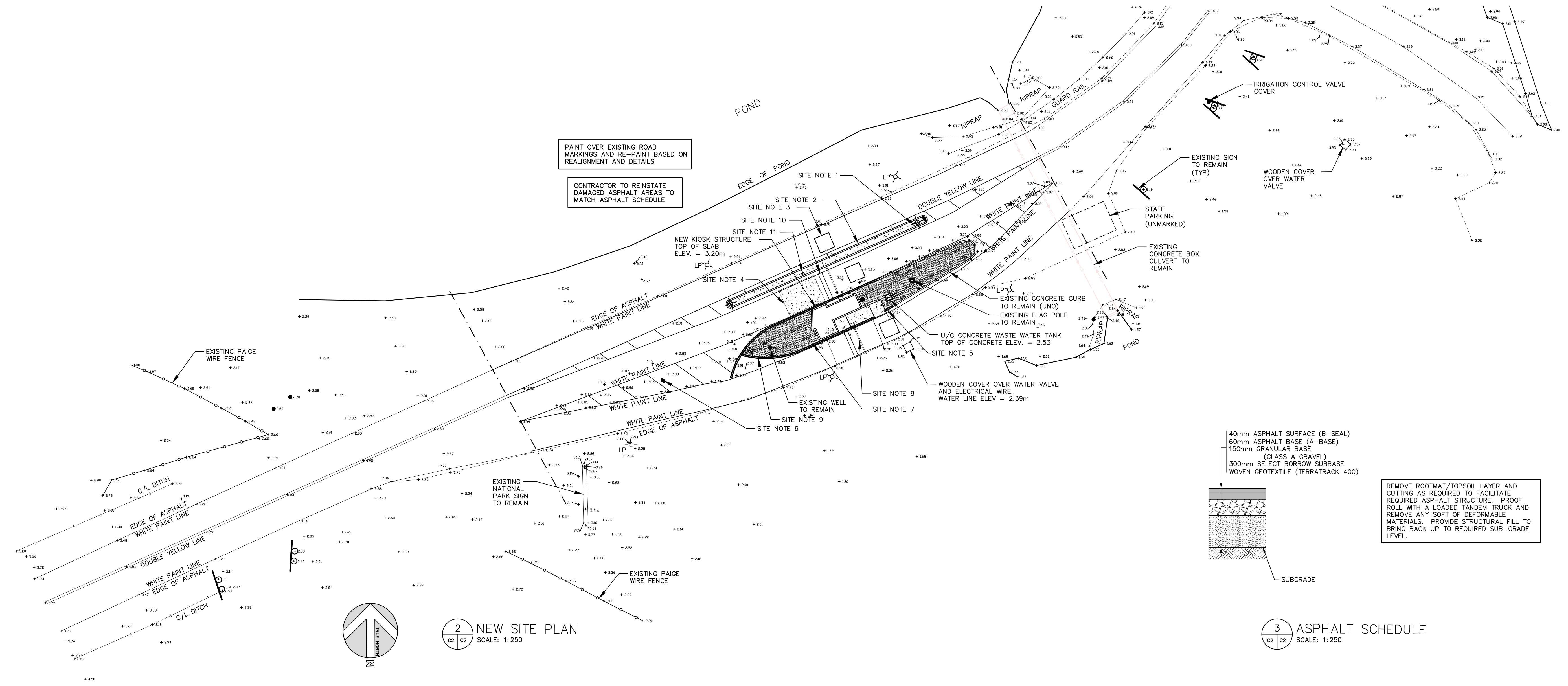
drawing **CAWNPORE LANE KIOSK EXISTING SITE PLAN & NEW SITE PLAN** dessin

designed SPM, E.I.T.	conçu
date December 8, 2017	
drawn SPM, E.I.T.	dessiné
date December 8, 2017	
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date December 8, 2017	
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project number	no. du projet
171076	
drawing no.	no. du dessin
C1	



- DEMOLITION NOTES:**
- DEMOLISH AND DISPOSE OF EXISTING KIOSK STRUCTURE, FOUNDATION AND ENTRANCE PAD. DISCONNECT EXISTING WATER AND SANITARY SEWER LINES. CAP AND PROTECT BOTH LINES DURING CONSTRUCTION. RECONNECT SERVICES AS REQUIRED TO SUIT NEW SITE PLAN.
 - EXISTING TRAFFIC LIGHT WITH CONDUIT TO BE REMOVED AND DISPOSED, 2 LOCATIONS.
 - DEMOLISH AND DISPOSE OF EXISTING STEEL GUARD RAIL AND FOOTINGS AT EACH END.
 - CUT AND DISPOSE OF DELINEATED PORTION OF CONCRETE CURB TO PERMIT NEW SITE DESIGN.
 - EXISTING LIGHT STANDARD POLES AND CONCRETE FOOTINGS ARE TO BE REMOVED AND DISPOSED (TYPICAL 4 LOCATIONS). COORDINATE WITH ELECTRICAL.
- SITE NOTES:**
- PROVIDE NEW FLASHING AMBER LIGHTS, AS SPECIFIED BY ELECTRICAL, 3 LOCATIONS.
 - NEW CONCRETE CURB AS PER DETAIL 7 AND COLORED CONCRETE MEDIAN AS PER DETAIL 6 ON DRAWING C5.
 - NEW EMBEDDED TRAFFIC SENSOR SYSTEM TO BE COORDINATED WITH ELECTRICAL DRAWINGS (EACH LANE, 3 TOTAL).
 - NEW 200x3250x4500 CONCRETE PAD REINFORCED WITH 6x6x6/6 WELDED WIRE MESH (MIDDLE OF SLAB).
 - CONCRETE CURB TRANSITION AS PER DETAIL 10 ON DRAWING C5.
 - PROVIDE NEW MEDIAN WARNING SIGN, 2 LOCATIONS.
 - LANDSCAPE PLAN AS PER DETAILS ON DRAWING C6.
 - NEW ENTRY GATES COMPLETE WITH RESET LOOP AND PUSH BUTTON. REFER TO DETAILS ON DRAWING C5 FOR SPECIFICATION.
 - NEW CONCRETE CRASH BARRIER PROTECTION AS PER DETAILS ON DRAWING C6.
 - NEW PAINTED LINE MARKINGS AS PER DETAIL 13 ON DRAWING C5.
 - PULL BOX AND CONDUIT RECESSED IN CONCRETE MEDIAN FOR FUTURE RFID SYSTEM, COORDINATE WITH ELECTRICAL.

- LEGEND**
- EXISTING DITCH
 - EDGE OF ASPHALT
 - NEW ROAD MARKINGS
 - EXISTING FENCE
 - EXISTING GRADE
 - PROPOSED GRADE
 - ASPHALT FINISH
 - CAST IN PLACE CONCRETE
 - SITE FINISH
 - FLASHING AMBER LIGHT
 - LIGHT POLE
 - TRAFFIC LIGHT w/ CONDUIT
 - FLAG POLE
 - EXISTING WELL



REMOVE ROOTMAT/TOPSOIL LAYER AND CUTTING AS REQUIRED TO FACILITATE REQUIRED ASPHALT STRUCTURE. PROOF ROLL WITH A LOADED TANDM TRUCK AND REMOVE ANY SOFT OF DEFORMABLE MATERIALS. PROVIDE STRUCTURAL FILL TO BRING BACK UP TO REQUIRED SUB-GRADE LEVEL.



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project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

NORTH RUSTICO KIOSK EXISTING SITE PLAN & NEW SITE PLAN

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drown SPM, E.I.T.	dessiné
date December 8, 2017	
approved NL, P.Eng	approuvé
date December 8, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets APC
project number	no. du projet

171076

drawing no. **C2** no. du dessin

DEMOLITION NOTES:
 1. DEMOLISH AND DISPOSE OF EXISTING KIOSK STRUCTURE, FOUNDATION AND ENTRANCE PAD. DISCONNECT EXISTING WATER AND SANITARY SEWER LINES. CAP AND PROTECT BOTH LINES DURING CONSTRUCTION. RECONNECT SERVICES AS REQUIRED TO SUIT NEW SITE PLAN.
 2. EXISTING TRAFFIC LIGHT WITH CONDUIT TO BE REMOVED AND DISPOSED, 2 LOCATIONS.
 3. DEMOLISH AND DISPOSE OF EXISTING STEEL GUARD RAIL AND FOOTINGS AT EACH END.
 4. REMOVE AND DISPOSE OF CONCRETE CURB, FULL LENGTH.
 5. EXISTING LIGHT STANDARD POLES AND CONCRETE FOOTINGS ARE TO BE REMOVED AND DISPOSED (TYPICAL 4 LOCATIONS). COORDINATE WITH ELECTRICAL.

SITE NOTES:
 1. PROVIDE NEW FLASHING AMBER LIGHTS, AS SPECIFIED BY ELECTRICAL, 3 LOCATIONS.
 2. NEW CONCRETE CURB AS PER DETAIL 7 AND COLORED CONCRETE MEDIAN AS PER DETAIL 8 ON DRAWING C5.
 3. NEW EMBEDDED TRAFFIC SENSOR SYSTEM TO BE COORDINATED WITH ELECTRICAL DRAWINGS (EACH LANE, 3 TOTAL).
 4. NEW 200x3250x4500 CONCRETE PAD REINFORCED WITH 6x6x6/8 WELDED WIRE MESH (MIDDLE OF SLAB).
 5. CONCRETE CURB TRANSITION AS PER DETAIL 10 ON DRAWING C5.
 6. PROVIDE NEW MEDIAN WARNING SIGN, 2 LOCATIONS.
 7. LANDSCAPE PLAN AS PER DETAILS ON DRAWING C6.
 8. NEW ENTRY GATES COMPLETE WITH RESET LOOP AND PUSH BUTTON. REFER TO DETAILS ON DRAWING C5 FOR SPECIFICATION.
 9. NEW CONCRETE GRASS BARRIER PROTECTION AS PER DETAILS ON DRAWING C5.
 10. NEW PAINTED LINE MARKINGS AS PER DETAIL 13 ON DRAWING C5.
 11. PULL BOX AND CONDUIT RECESSED IN CONCRETE MEDIAN FOR FUTURE RFID SYSTEM. COORDINATE WITH ELECTRICAL.
 12. EXTEND EDGE OF GRAVEL TO CREATE STAFF PARKING AREA OFF OF SHOULDER. PROVIDE COMPACTED FILL OVERLAIN WITH 100mm LAYER OF CLASS 'A' GRAVEL.

LEGEND

- EXISTING DITCH
- EDGE OF ASPHALT
- NEW ROAD MARKINGS
- EXISTING FENCE
- + 12.12 EXISTING GRADE
- + 12.12 PROPOSED GRADE
- ASPHALT FINISH
- CAST IN PLACE CONCRETE
- SITE FINISH
- SEEDED AREA
- FLASHING AMBER LIGHT
- LIGHT POLE
- TRAFFIC LIGHT w/ CONDUIT
- FLAG POLE
- EXISTING WELL

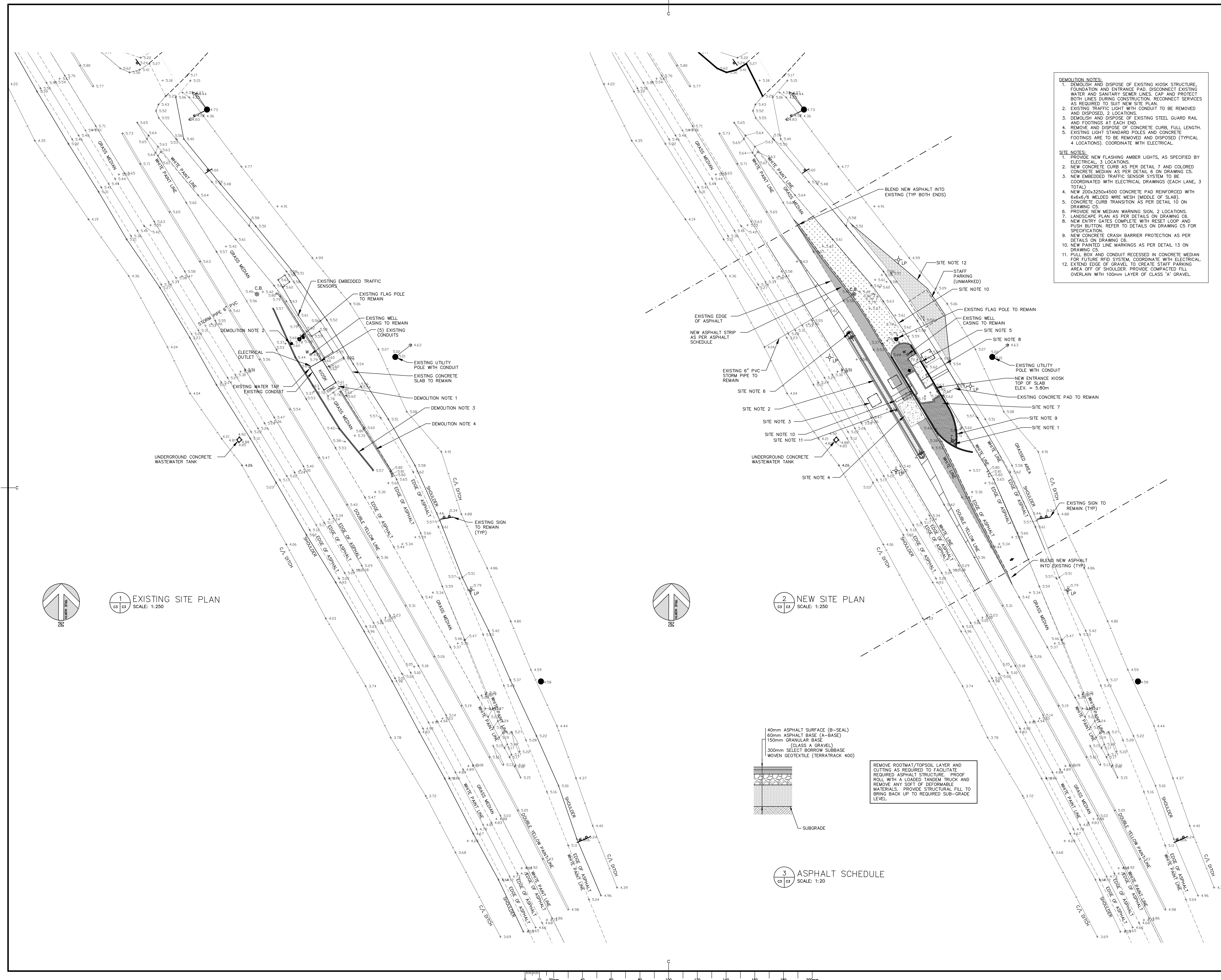


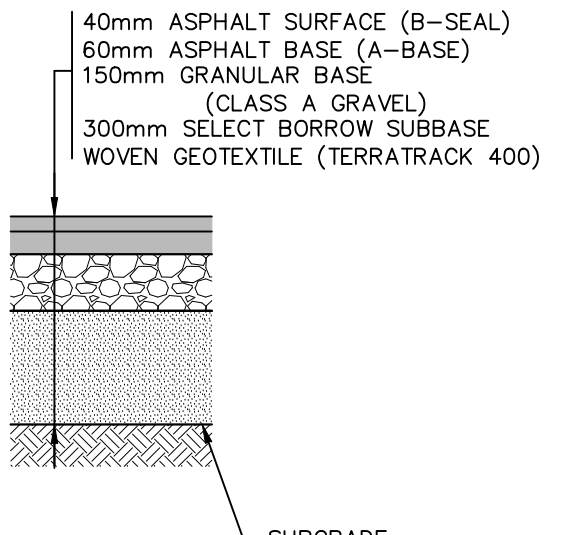
0	ISSUED FOR TENDER	12/08/2017
revisions		date

project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

drawing **DALVAY KIOSK EXISTING SITE PLAN & NEW SITE PLAN** dessin

designed SPM, E.I.T.	conçu
date December 8, 2017	
drawn SPM, E.I.T.	dessiné
date December 8, 2017	
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date December 8, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets APC
project number	no. du projet
171076	
drawing no.	no. du dessin
C3	





REMOVE ROOTMAT/TOPSOIL LAYER AND CUTTING AS REQUIRED TO FACILITATE REQUIRED ASPHALT STRUCTURE. PROOF ROLL WITH A LOADED TANDUM TRUCK AND REMOVE ANY SOFT OR DEFORMABLE MATERIALS. PROVIDE STRUCTURAL FILL TO BRING BACK UP TO REQUIRED SUB-GRADE LEVEL.

1 ASPHALT SCHEDULE
SCALE: 1:20

- DEMOLITION NOTES:**
- DEMOLISH AND DISPOSE OF EXISTING KIOSK STRUCTURE, FOUNDATION AND ENTRANCE PAD. DISCONNECT EXISTING WATER AND SANITARY SEWER LINES. CAP AND PROTECT BOTH LINES DURING CONSTRUCTION. RECONNECT SERVICES AS REQUIRED TO SUIT NEW SITE PLAN.
 - EXISTING TRAFFIC LIGHT WITH CONDUIT TO BE REMOVED AND DISPOSED. 2 LOCATIONS.
 - DEMOLISH AND DISPOSE OF EXISTING STEEL GUARD RAIL AND FOOTINGS AT EACH END.
 - DEMOLISH AND DISPOSE OF EXISTING CONCRETE CURB. FOOTINGS ARE TO BE REMOVED AND DISPOSED (TYPICAL 4 LOCATIONS). COORDINATE WITH ELECTRICAL.

- SITE NOTES:**
- PROVIDE NEW FLASHING AMBER LIGHTS, AS SPECIFIED BY ELECTRICAL. 3 LOCATIONS.
 - NEW CONCRETE CURB AS PER DETAIL 7 AND COLORED CONCRETE MEDIAN AS PER DETAIL 6 ON DRAWING C5.
 - NEW EMBEDDED TRAFFIC SENSOR SYSTEM TO BE COORDINATED WITH ELECTRICAL DRAWINGS (EACH LANE, 3 TOTAL).
 - NEW 200x325x4500 CONCRETE PAD REINFORCED WITH 6x6x6/6 WELDED WIRE MESH (MIDDLE OF SLAB). 2 LOCATIONS.
 - CONCRETE CURB TRANSITION AS PER DETAIL 10 ON DRAWING C5.
 - PROVIDE NEW MEDIAN WARNING SIGN, 2 LOCATIONS.
 - LANDSCAPE PLAN AS PER DETAILS ON DRAWING C6.
 - NEW ENTRY GATES COMPLETE WITH RESET LOOP AND PUSH BUTTON. REFER TO DETAILS ON DRAWING C5 FOR SPECIFICATION.
 - NEW CONCRETE CRASH BARRIER PROTECTION AS PER DETAILS ON DRAWING C6.
 - NEW PAINTED LINE MARKINGS AS PER DETAIL 13 ON DRAWING C5.
 - PULL BOX AND CONDUIT RECESSED IN CONCRETE MEDIAN FOR FUTURE RTD SYSTEM. COORDINATE WITH ELECTRICAL.
 - EXTEND EDGE OF PARKING AREA AS SHOWN ON PLAN. PROVIDE COMPACTED FILL OVERLAIN WITH 100mm LAYER OF CLASS 'A' GRAVEL.

LEGEND

—	PROPERTY LINE
- - -	EXISTING DITCH
- - - - -	EDGE OF ASPHALT
- - - - -	NEW ROAD MARKINGS
- - - - -	EXISTING FENCE
+ 12.12	EXISTING GRADE
+ 12.12	PROPOSED GRADE
▒	ASPHALT FINISH
▒	CAST IN PLACE CONCRETE
▒	SITE FINISH
⚡	FLASHING AMBER LIGHT
LP	LIGHT POLE
●	TRAFFIC LIGHT w/ CONDUIT
■	FLAG POLE
W	EXISTING WELL

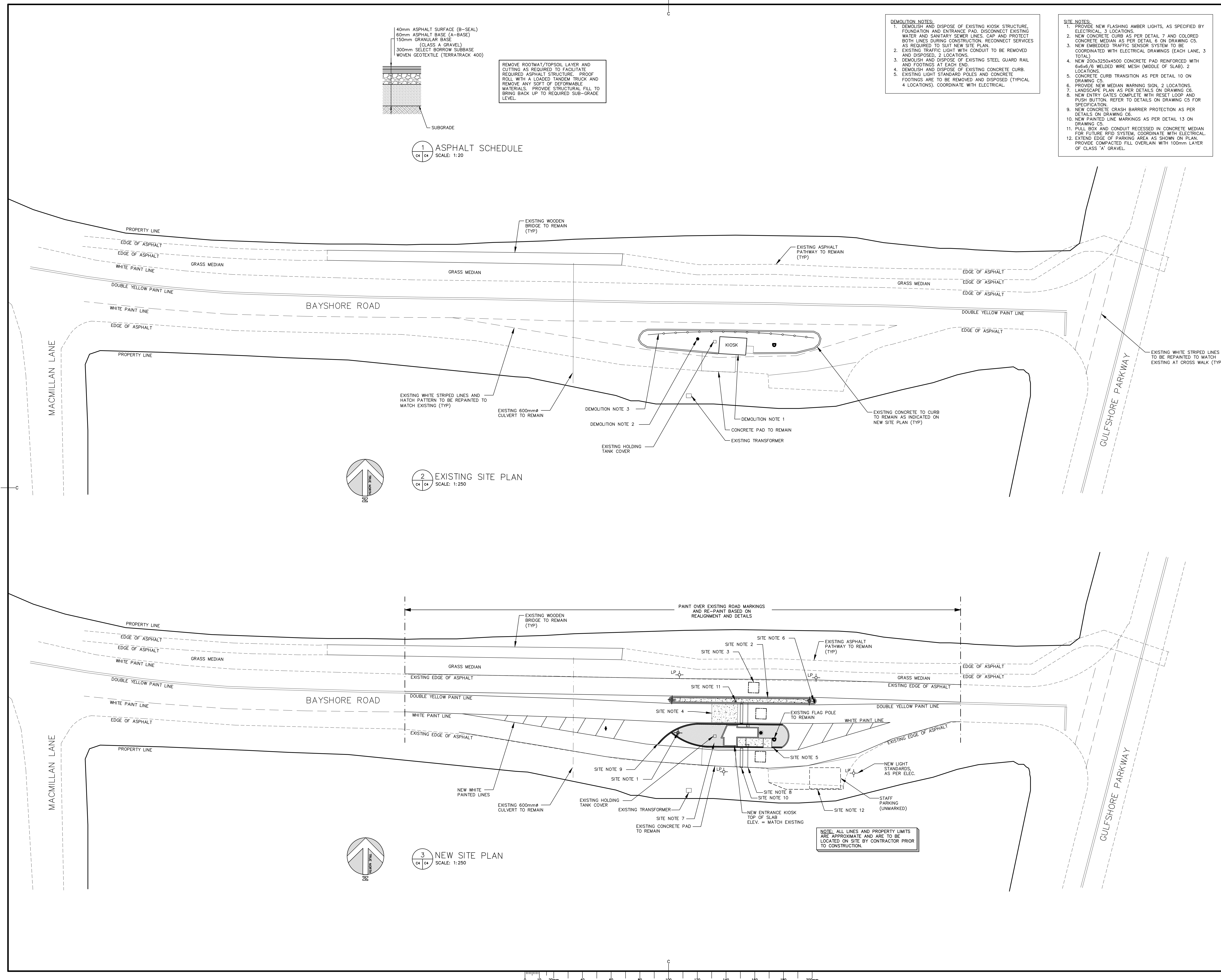


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revisions		date

project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

drawing **BAYSHORE KIOSK EXISTING SITE PLAN & NEW SITE PLAN** dessin

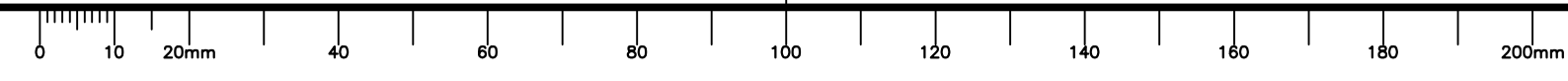
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date December 8, 2017	
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drawing no.	no. du dessin
C4	



2 EXISTING SITE PLAN
SCALE: 1:250

3 NEW SITE PLAN
SCALE: 1:250

NOTE: ALL LINES AND PROPERTY LIMITS ARE APPROXIMATE AND ARE TO BE LOCATED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.

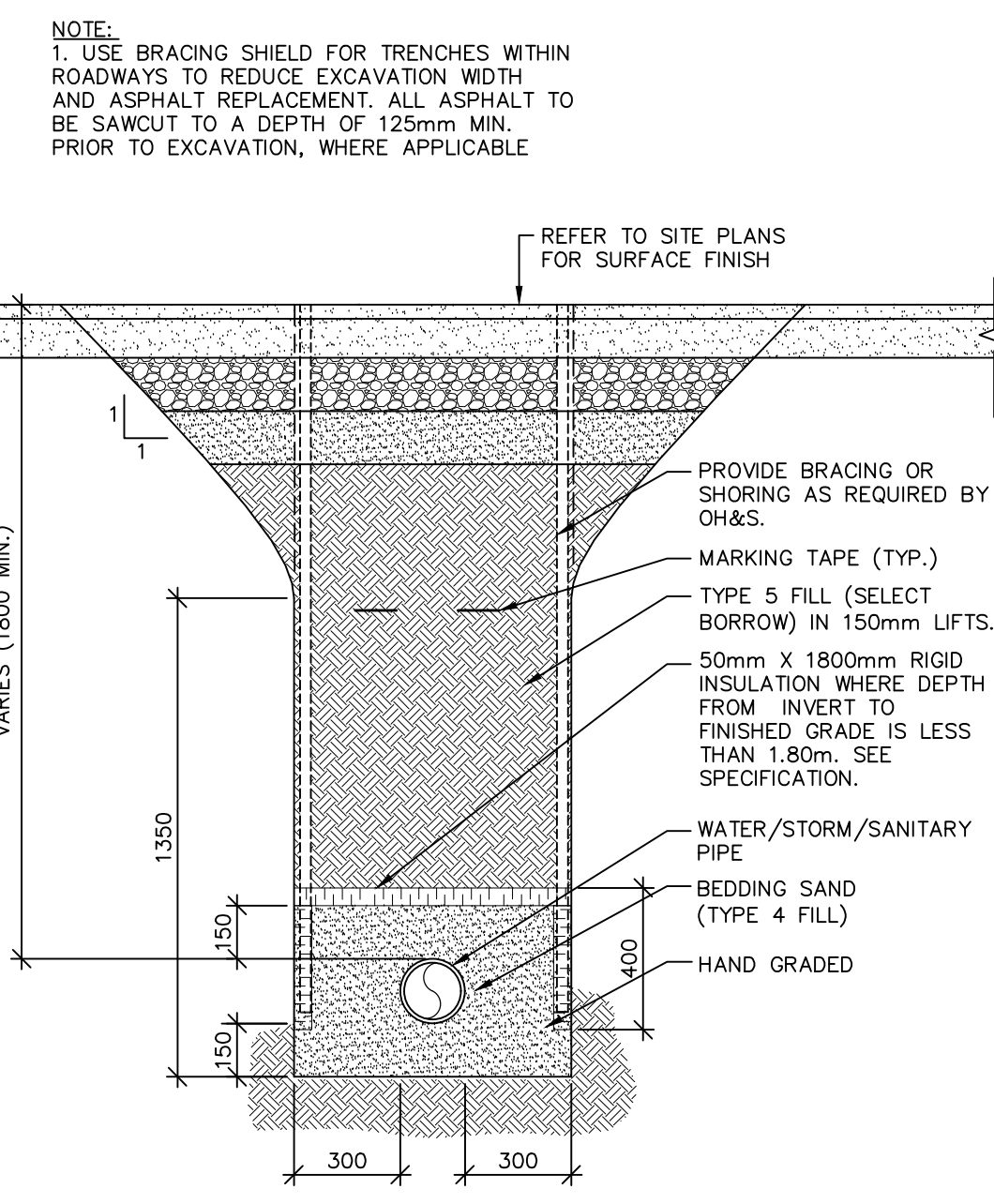


GENERAL NOTES:

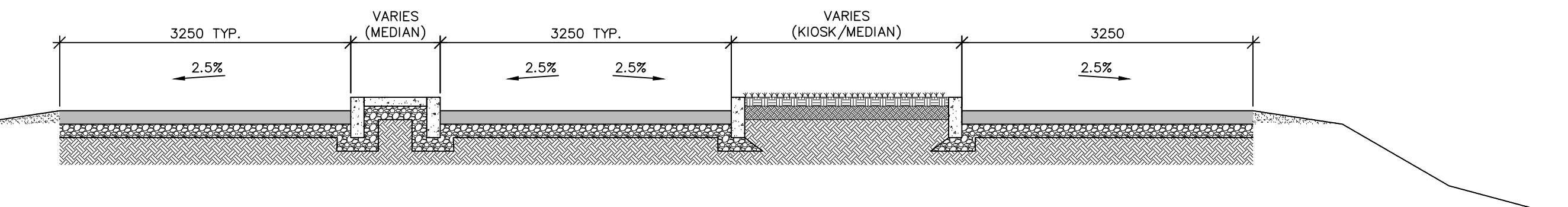
- CONTRACTOR MUST VISIT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS.
- VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS U.N.O.
- THESE DRAWINGS SHALL BE VIEWED IN CONJUNCTION WITH THE CONTRACT 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, U/G 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 OH&S.
- 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 WITHIN CITY R.O.W. AT ALL TIMES DURING THIS CONTRACT AND ACCESS FOR EMERGENCY VEHICLES ON ON CONSTRUCTION SITE. PROVIDE SIGNS, BARRICADES, FLAGGERS AS PER APPLICABLE REGULATIONS.
- ALL TRENCHES WITHIN CITY RIGHT OF WAYS MUST BE BACKFILLED AT THE END OF EACH DAY.
- REPAIR & REINSTATE DISTURBED ASPHALT PAVEMENT, GRASS & 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.

ENVIRONMENTAL PROTECTION NOTES:

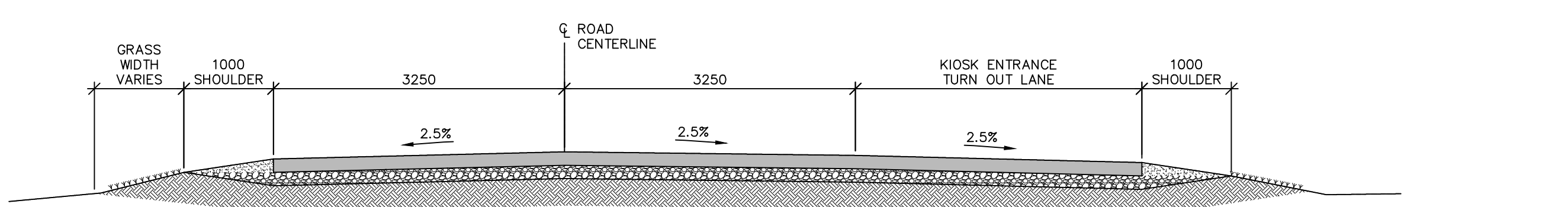
- INSTALLATION OF ENVIRONMENTAL CONTROLS SHALL BE A FIRST STEP IN THE CONSTRUCTION SEQUENCE. THEIR DESIGN, INSTALLATION AND MAINTENANCE SHALL BE AS PER PEI DO&P'S ENVIRONMENTAL PROTECTION PLAN, SECTION 7.0 AND PROJECT SPECIFICATIONS.
- CONSTRUCT AND INSTALL AT TOE OF SLOPE AROUND PERIMETER OF ALL TEMPORARY AND PERMANENT CONSTRUCTION AREAS INCLUDING AROUND STOCKPILES OF FILL, SILT FENCES & EROSION CONTROL DEVICES. ALL ENVIRONMENTAL CONTROLS (E.G. SILT FENCING, CHECK DAMS, SEDIMENT COLLECTION PONDS, ETC.) SHALL BE IN PLACE PRIOR TO, DURING AND AFTER PROJECT ACTIVITIES TO AVOID 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.
- 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.



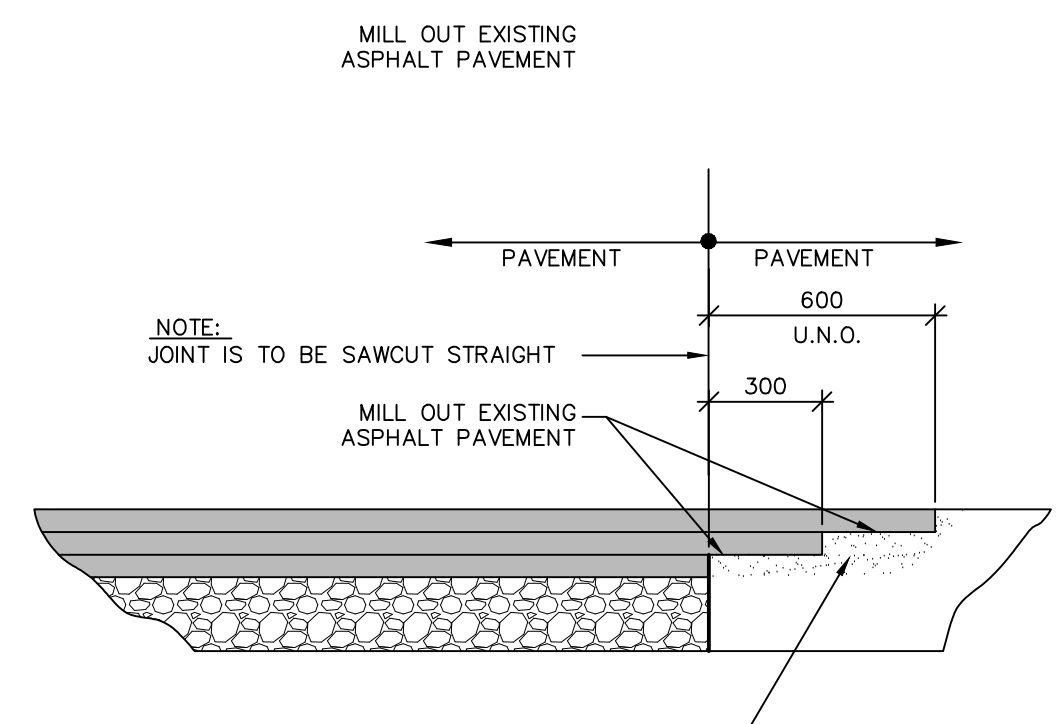
3 SECTION: TYPICAL TRENCH
 1:20



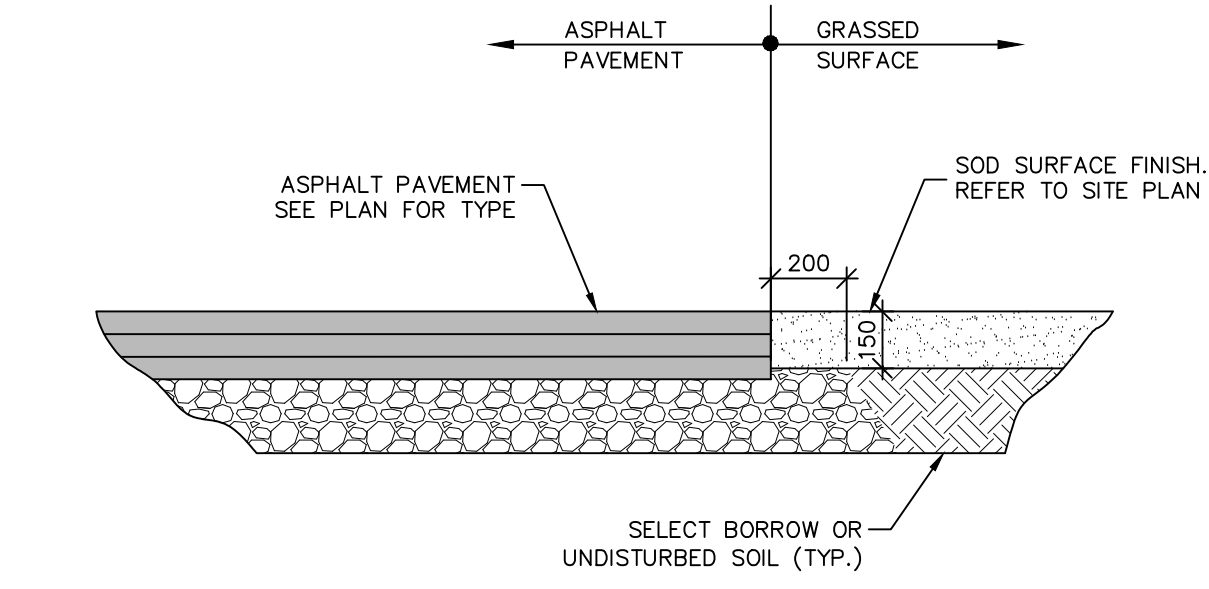
1 SECTION: ROADWAY AT KIOSK/MEDIANS (TYPICAL)
 1:50



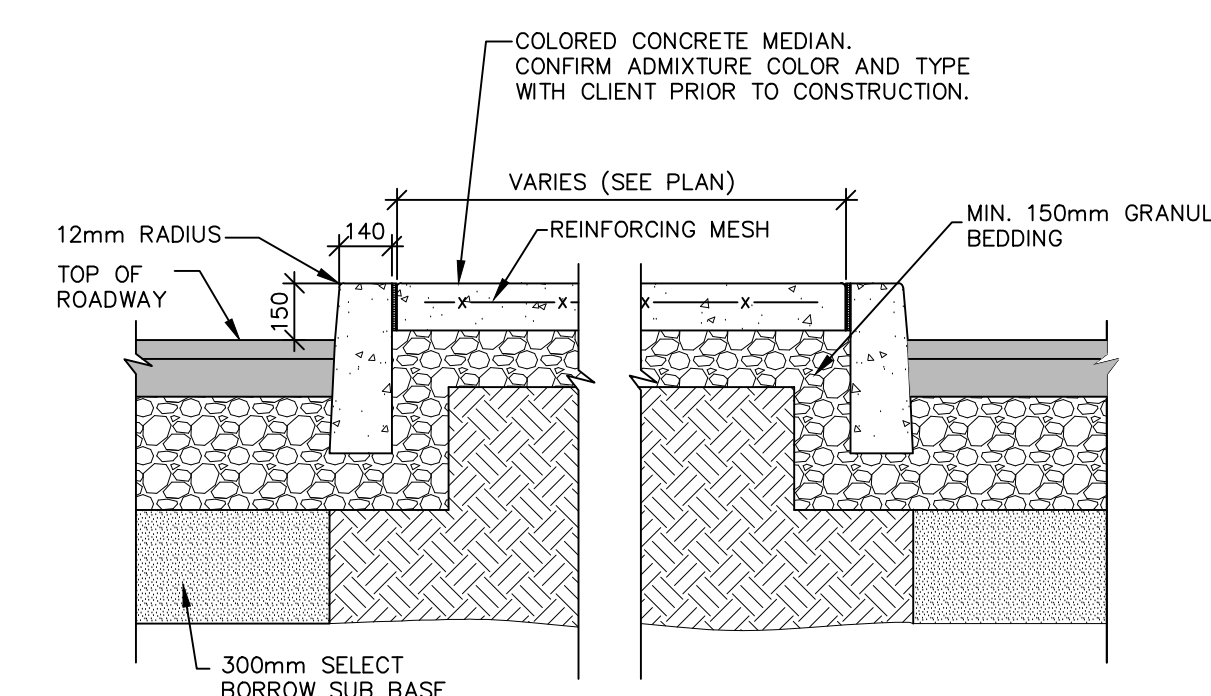
2 SECTION: ROADWAY (TYPICAL)
 1:50



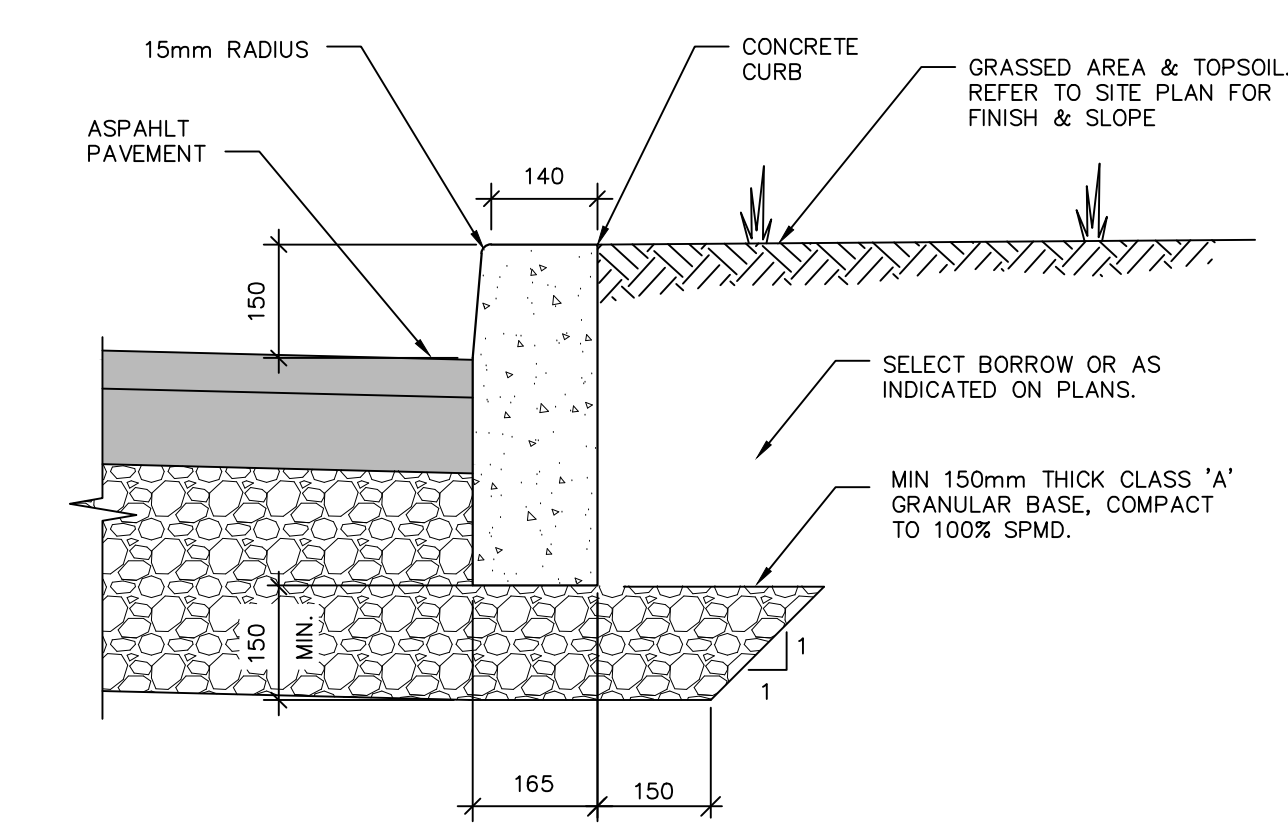
4 ASPHALT PAVEMENT DETAIL JOINT AT EXISTING / NEW
 1:20



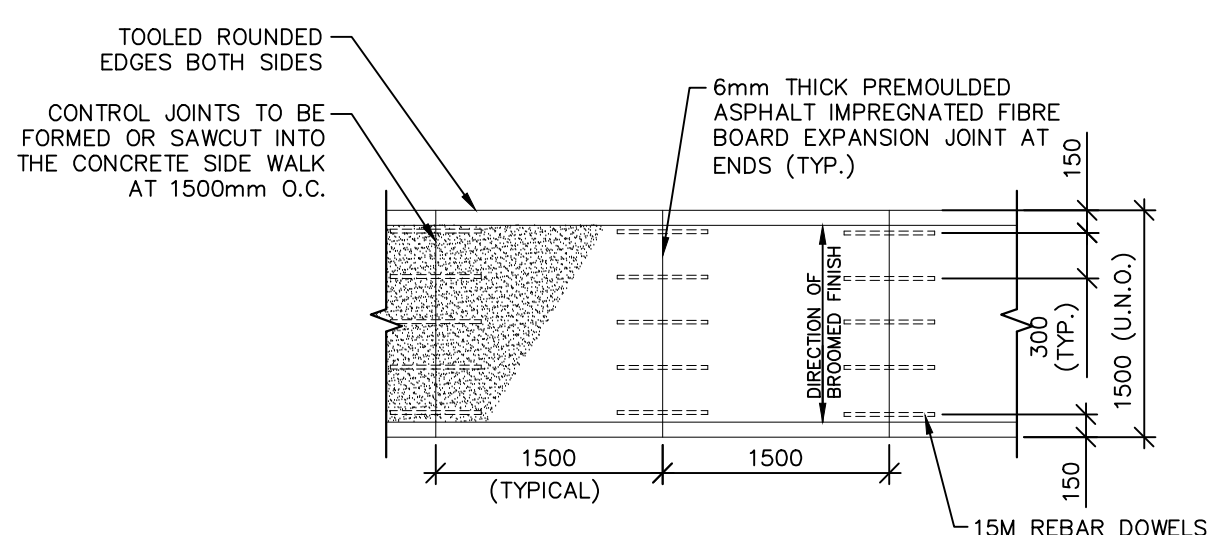
5 ASPHALT PAVEMENT DETAIL JOINT AT GRASS / NEW
 1:20



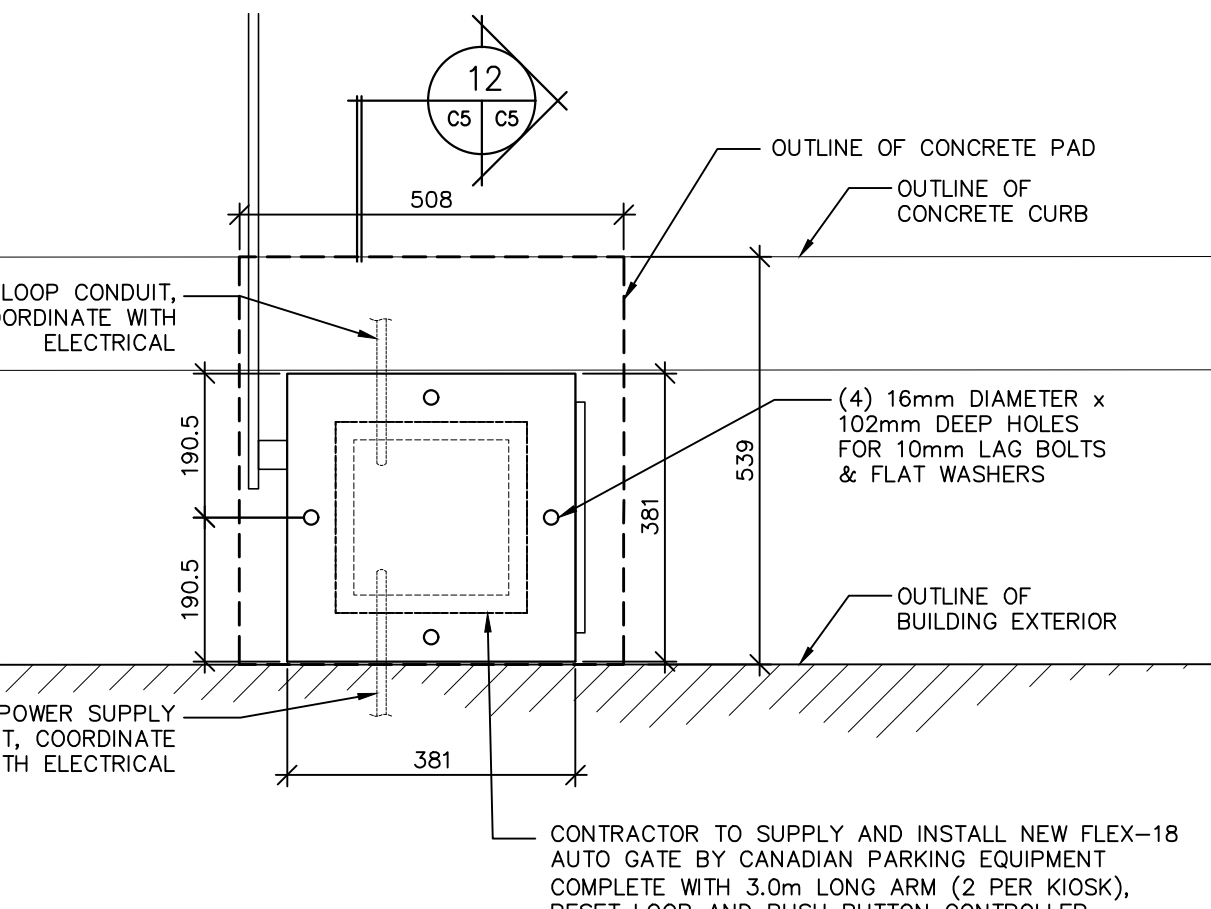
6 SECTION: CURB / CONCRETE MEDIAN
 1:20



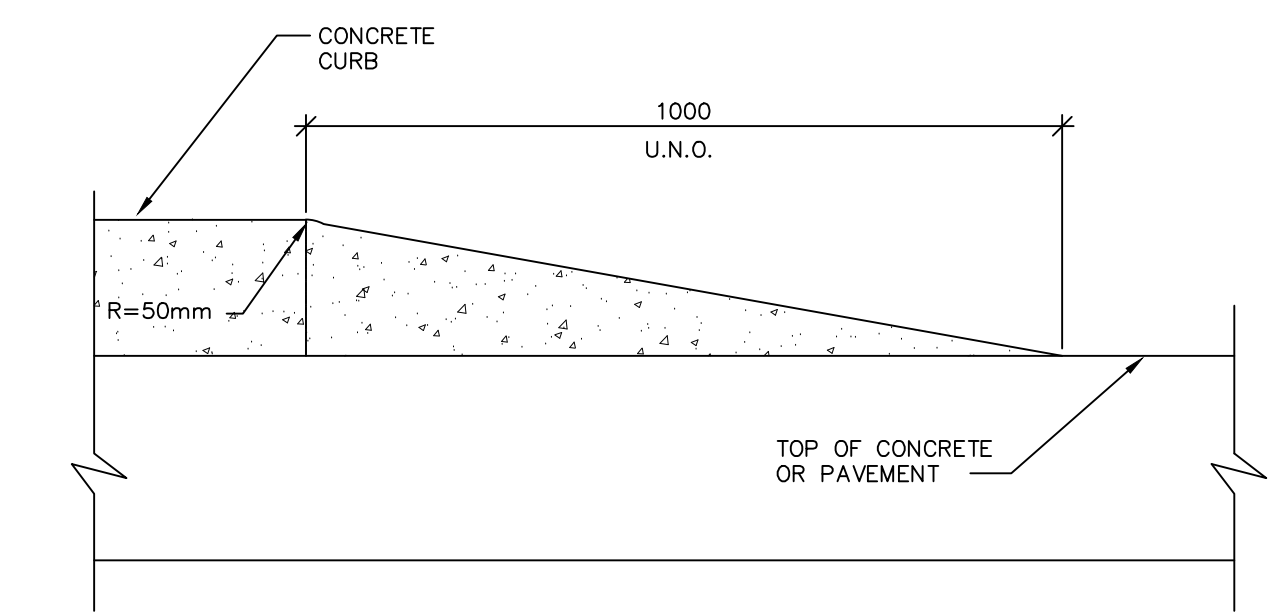
7 SECTION: CONCRETE BARRIER CURB
 1:10



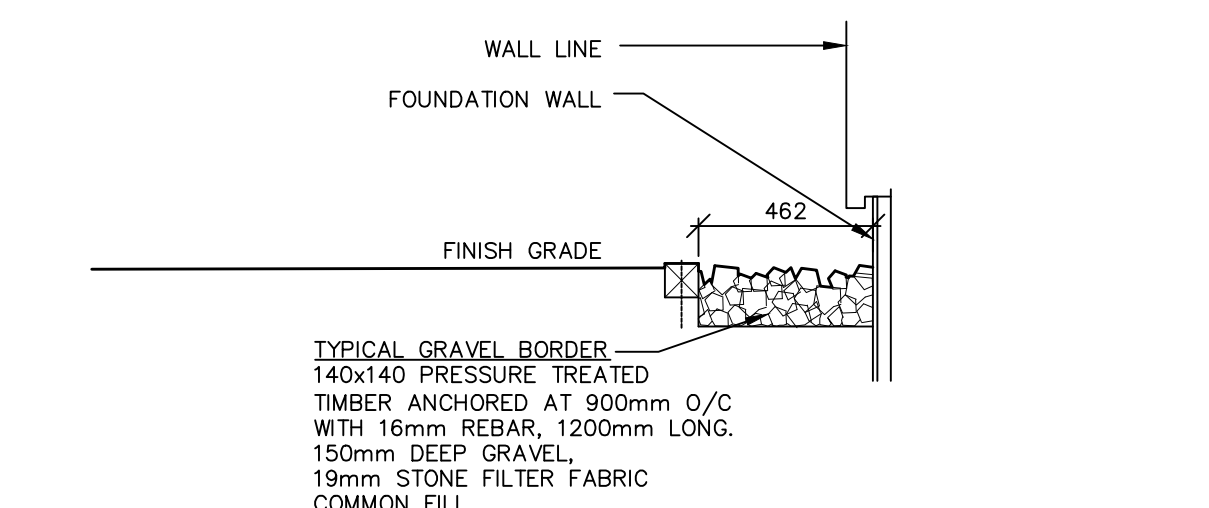
8 CONCRETE SIDEWALK PLAN
 1:50



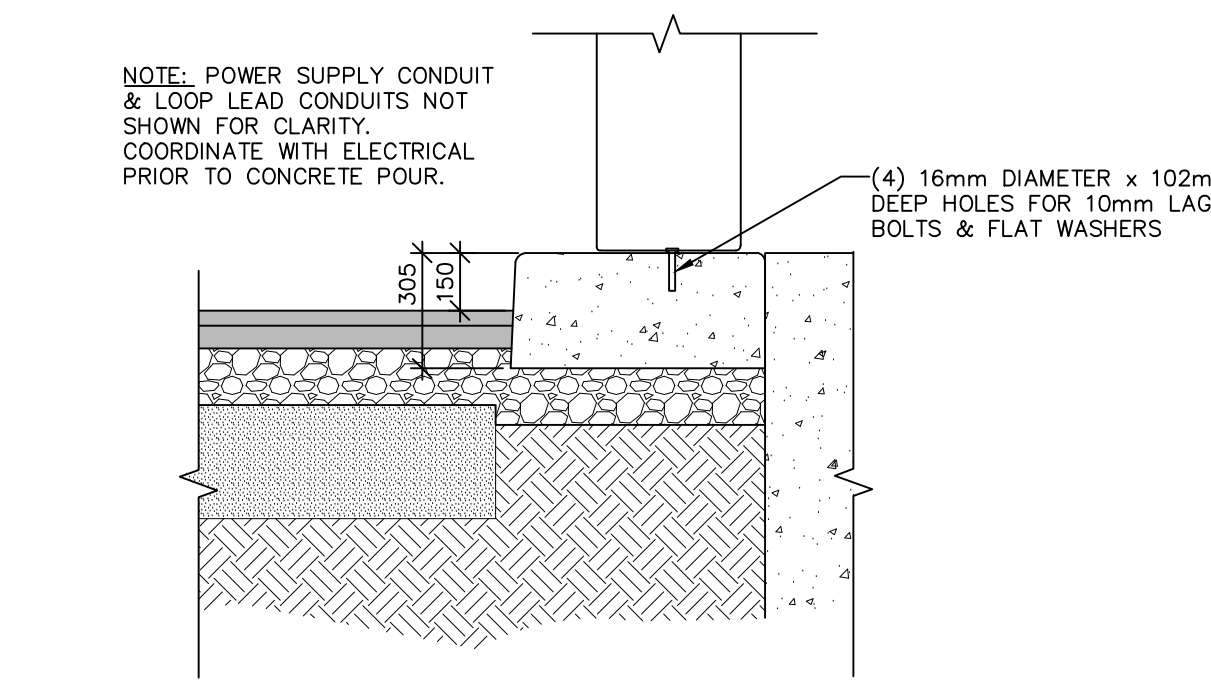
9 PLAN: GATE ARM BASE
 1:10



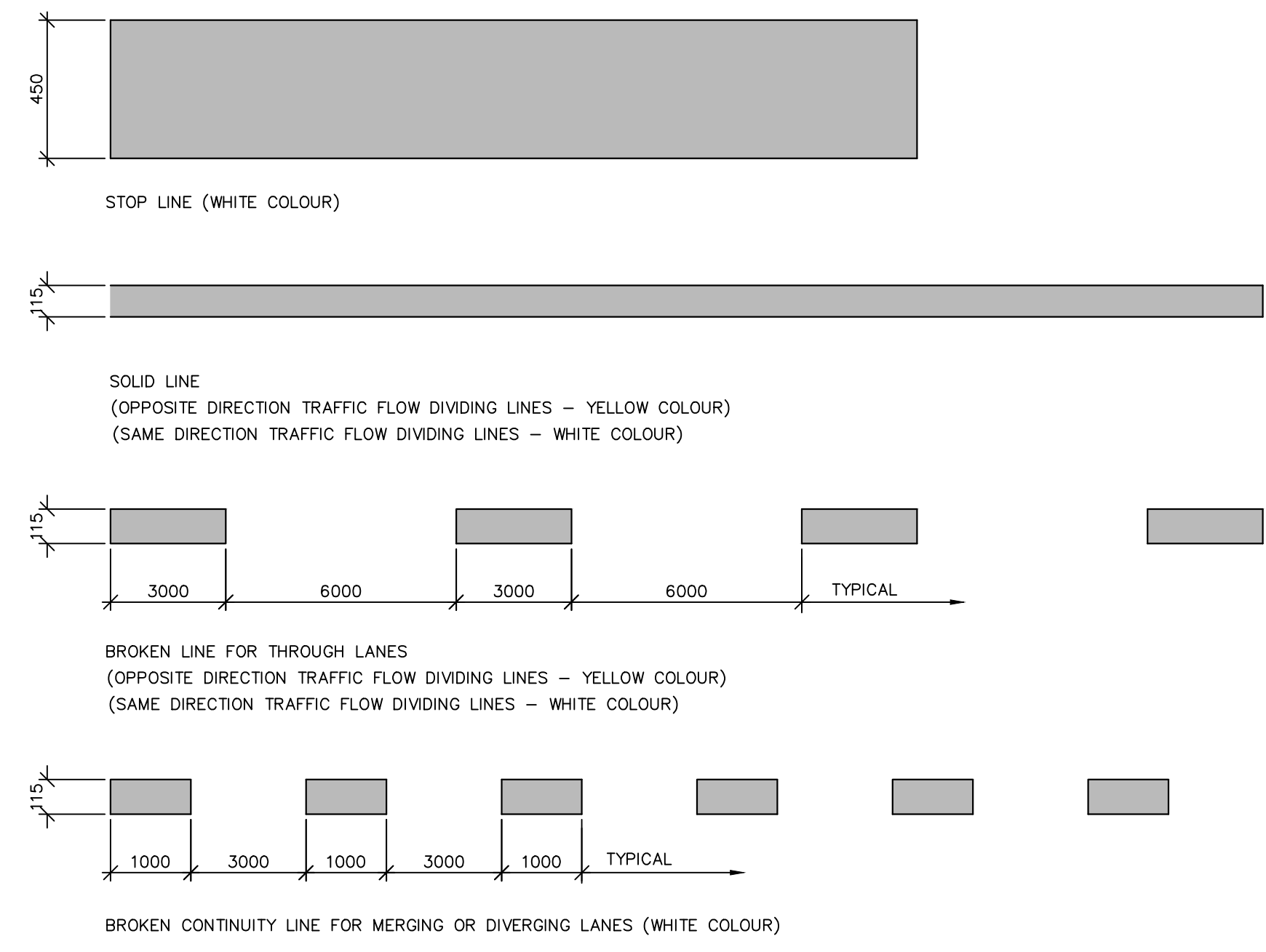
10 DETAIL: END OF CONCRETE CURB
 1:10



11 GRAVEL BORDER DETAIL
 1:20



12 SECTION: GATE ARM BASE
 1:20



13 PAINTED LINE MARKINGS (TYP.)
 1:20



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revisions		date

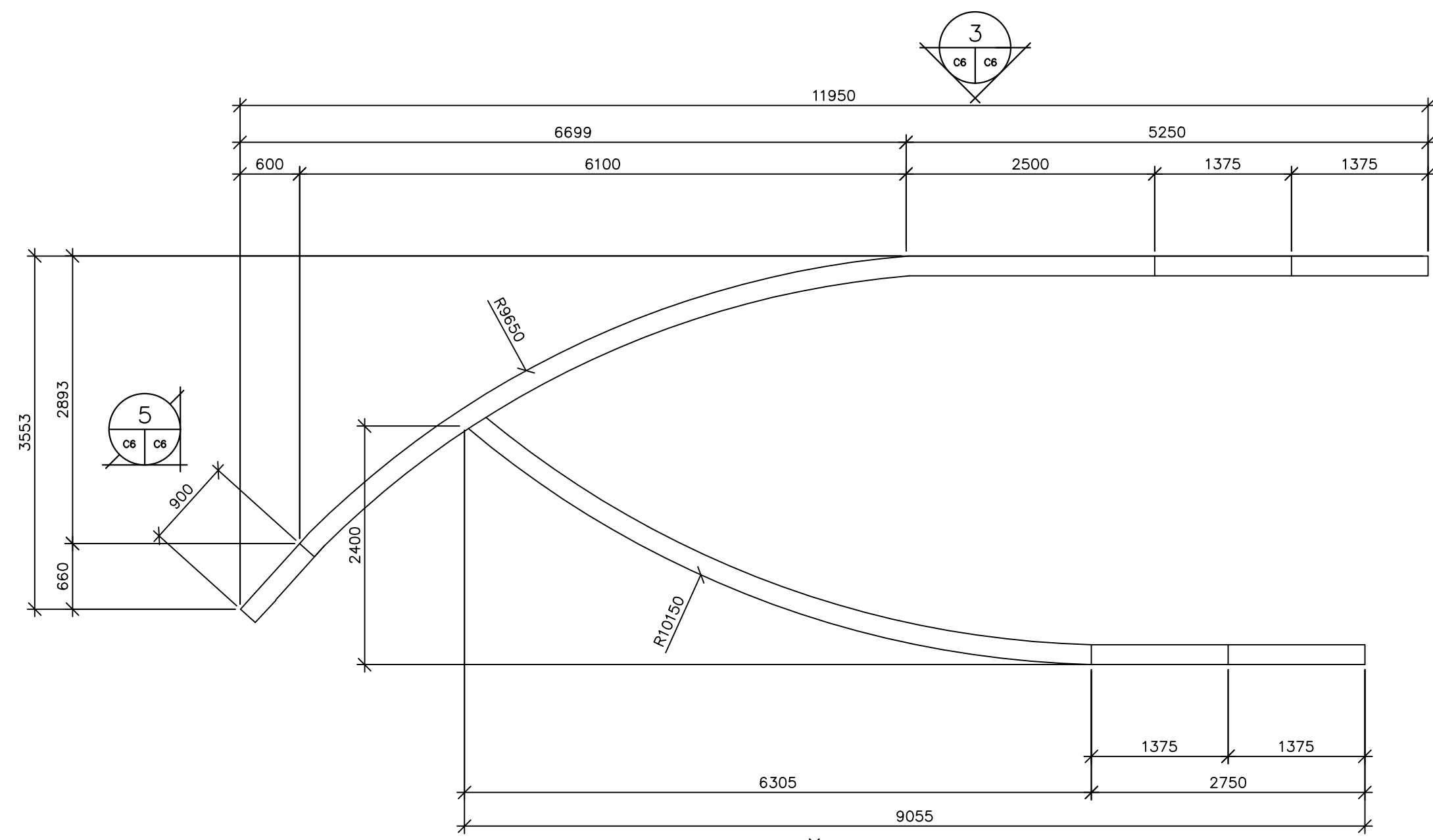
project
**PARKS CANADA AGENCY
 PARKS CANADA KIOSKS PHASE 1**
 project

SITE DETAILS

designed SPM, E.I.T.	conçu
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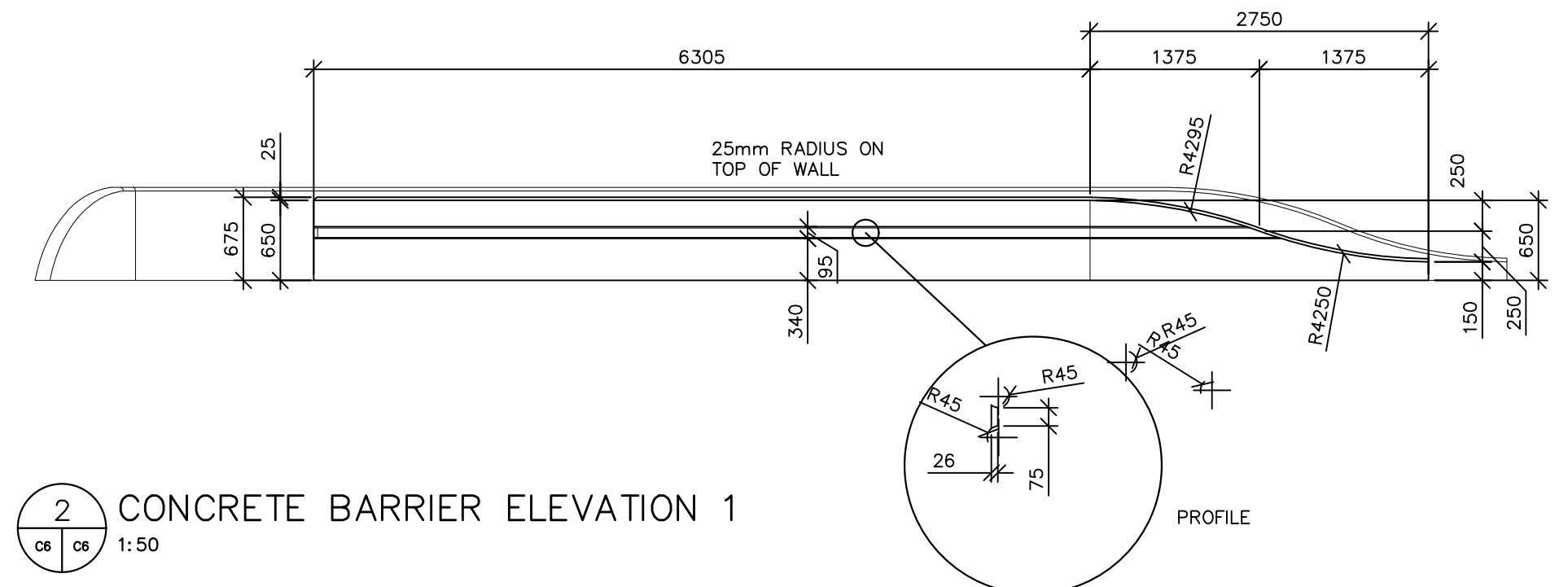
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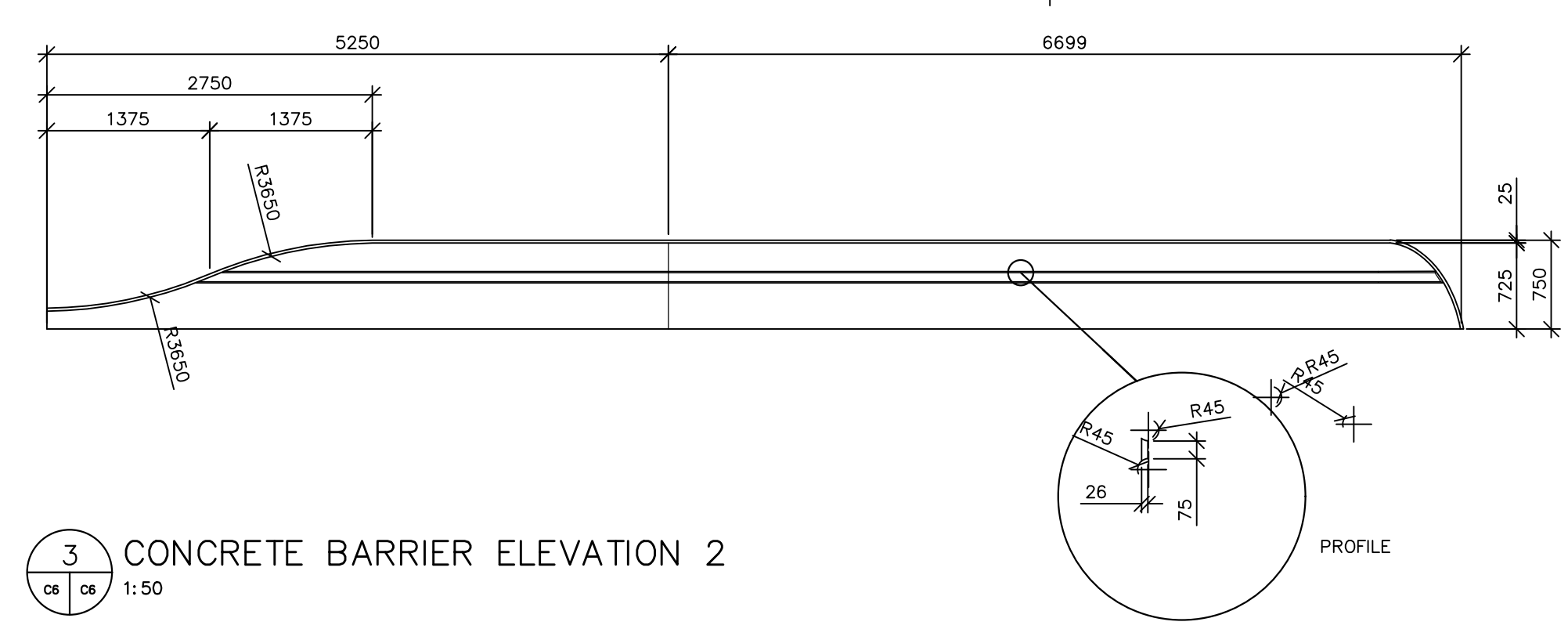
1 CONCRETE BARRIER PLAN
 1:50

CONCRETE BARRIER NOTES:

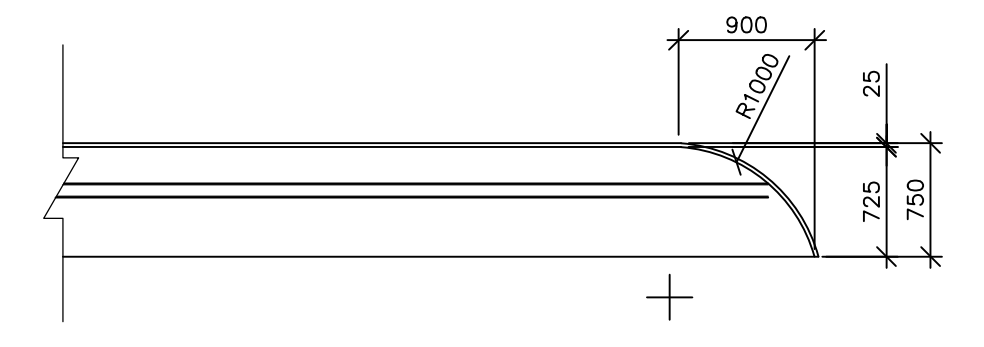
1. EXPOSED AGGREGATE SPECIFIC CONCRETE MIX SHALL BE USED FOR THE BARRIER CONCRETE MIX DESIGN.
2. APPLY COLORED ADMIXTURE TO CONCRETE MIX AS PER OWNER SELECTED COLOR. SUBMIT SPEC SHEET FOR APPROVAL.
3. CONTRACTOR TO UTILIZE VERTICAL SURFACE RETARDER (TOP-STOP VERTICAL BY W.R. MEADOWS, OR APPROVED EQUAL) ON CONCRETE FORMS BEFORE PLACEMENT OF CONCRETE.
4. 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.
5. CONTRACTOR TO SUPPLY 150mm x 1220mm x 1220mm MOCK UP SAMPLE OF PROPOSED BARRIER FOR OWNER DEMONSTRATION AND APPROVAL PRIOR TO CONSTRUCTION.



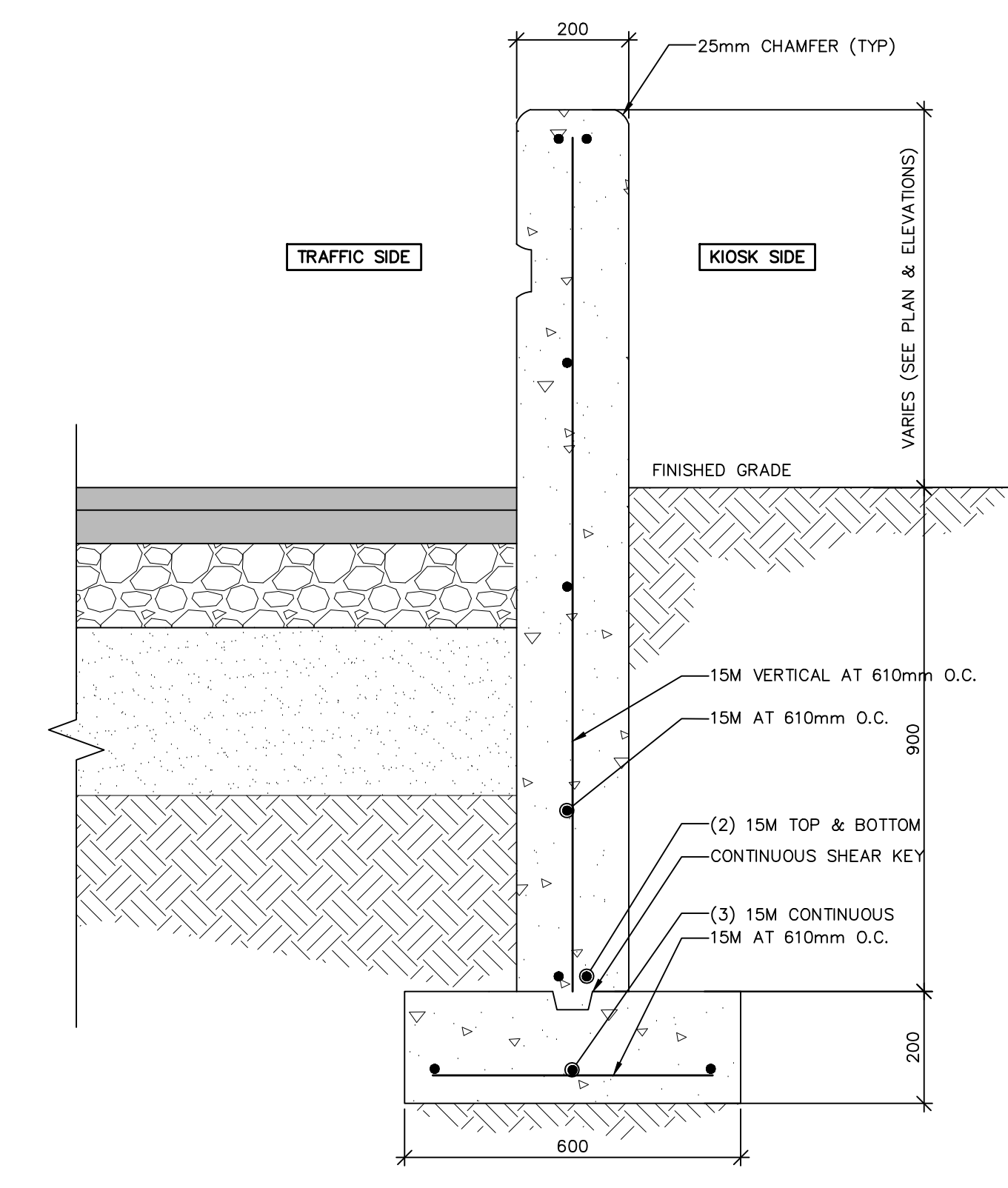
2 CONCRETE BARRIER ELEVATION 1
 1:50



3 CONCRETE BARRIER ELEVATION 2
 1:50

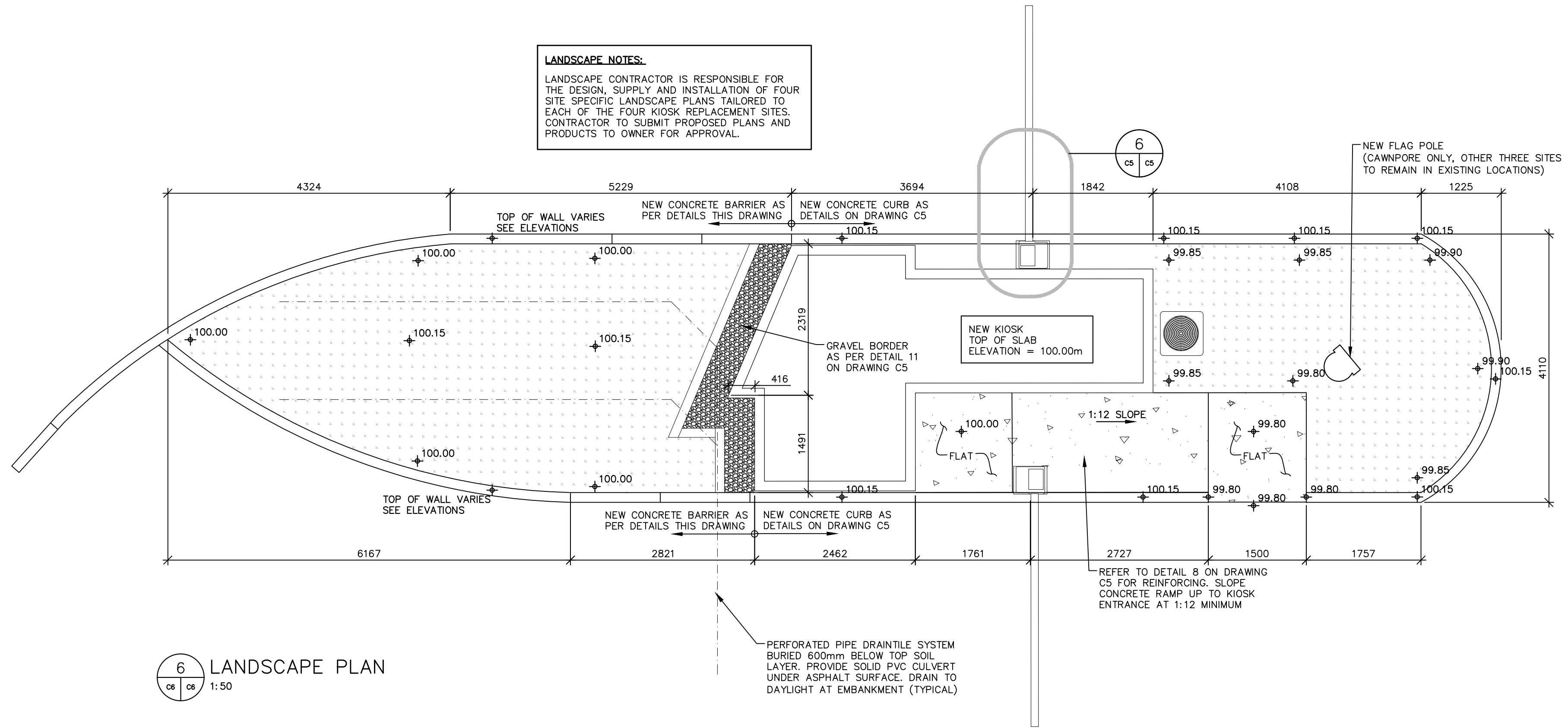


5 CONCRETE BARRIER ELEVATION 3
 1:50

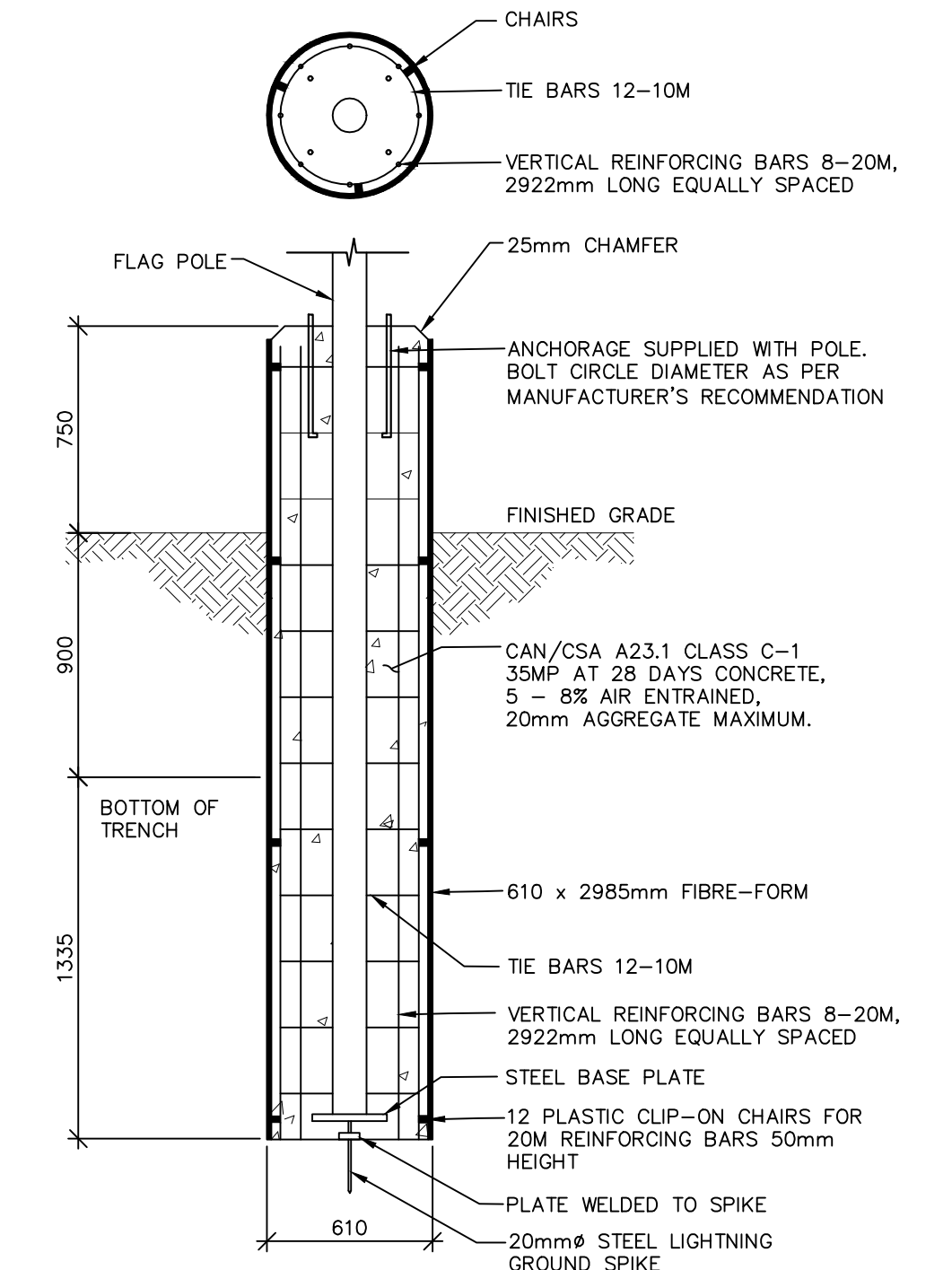


4 CONCRETE BARRIER SECTION
 1:10

LANDSCAPE NOTES:
 LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, SUPPLY AND INSTALLATION OF FOUR SITE SPECIFIC LANDSCAPE PLANS TAILORED TO EACH OF THE FOUR KIOSK REPLACEMENT SITES. CONTRACTOR TO SUBMIT PROPOSED PLANS AND PRODUCTS TO OWNER FOR APPROVAL.



6 LANDSCAPE PLAN
 1:50



7 SECTION: TYPICAL FLAG POLE BASE
 NTS



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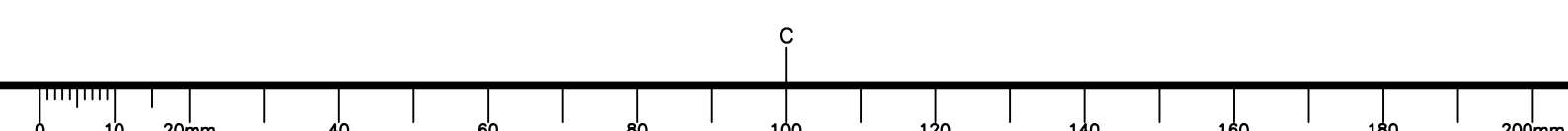
project
**PARKS CANADA AGENCY
 PARKS CANADA KIOSKS PHASE 1**
 project

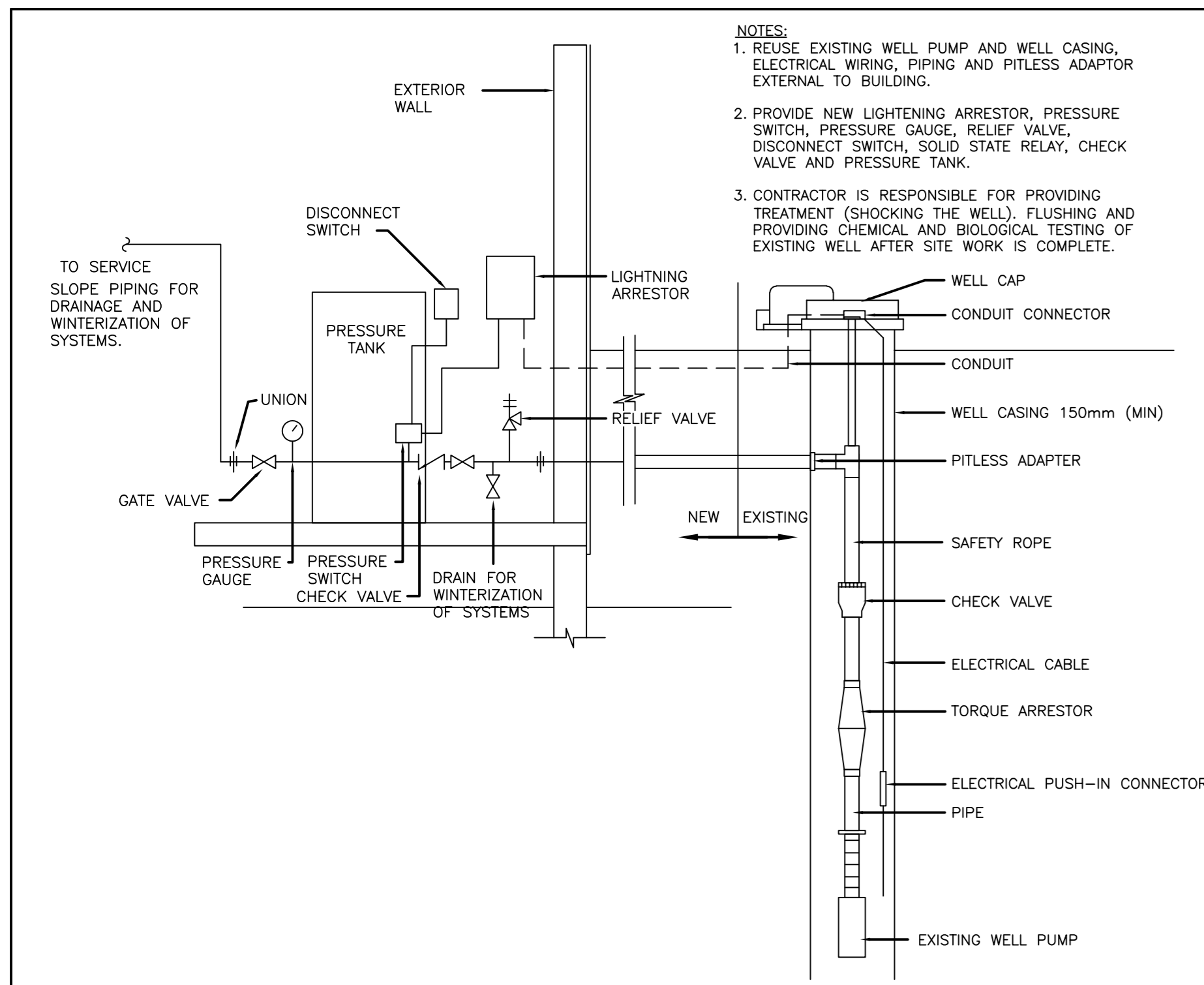
drawing
CRASH PROTECTION & LANDSCAPING DETAILS
 design

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PCA Project Manager	Administrateur de projets APC	

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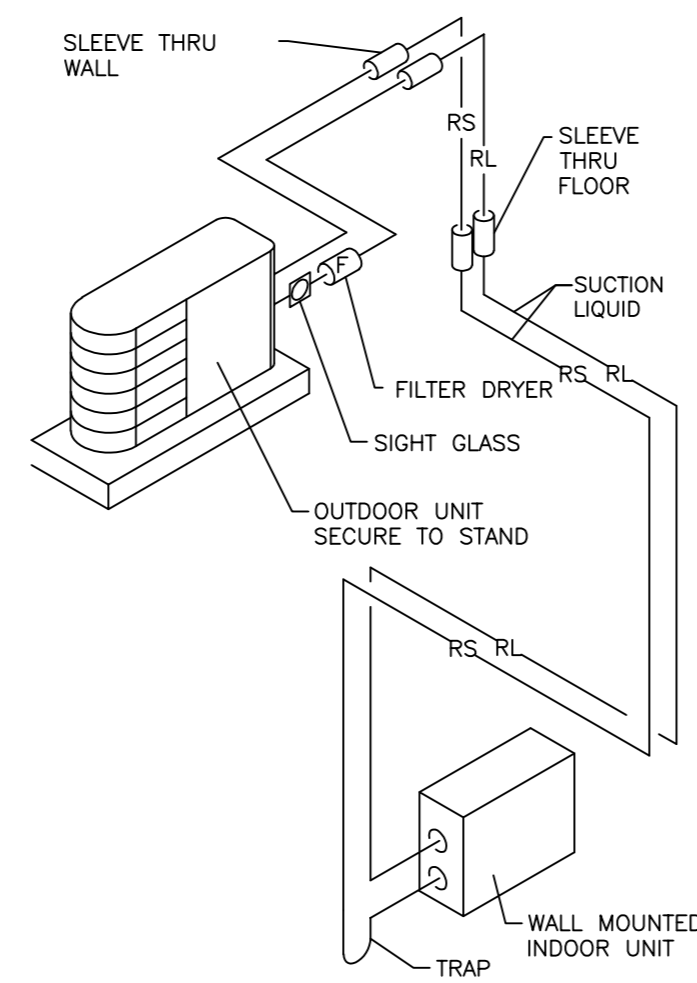


DETAIL EXISTING SUBMERSIBLE WELL PUMP NORTH RUSTICO AND DALVAY

SCALE : N.T.S.



- NOTES:**
1. REUSE EXISTING WELL PUMP AND WELL CASING. ELECTRICAL WIRING, PIPING AND FITLESS ADAPTOR EXTERNAL TO BUILDING.
 2. PROVIDE NEW LIGHTNING ARRESTOR, PRESSURE SWITCH, PRESSURE GAUGE, RELIEF VALVE, DISCONNECT SWITCH, SOLID STATE RELAY, CHECK VALVE AND PRESSURE TANK.
 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TREATMENT (SHOCKING THE WELL), FLUSHING AND PROVIDING CHEMICAL AND BIOLOGICAL TESTING OF EXISTING WELL AFTER SITE WORK IS COMPLETE.



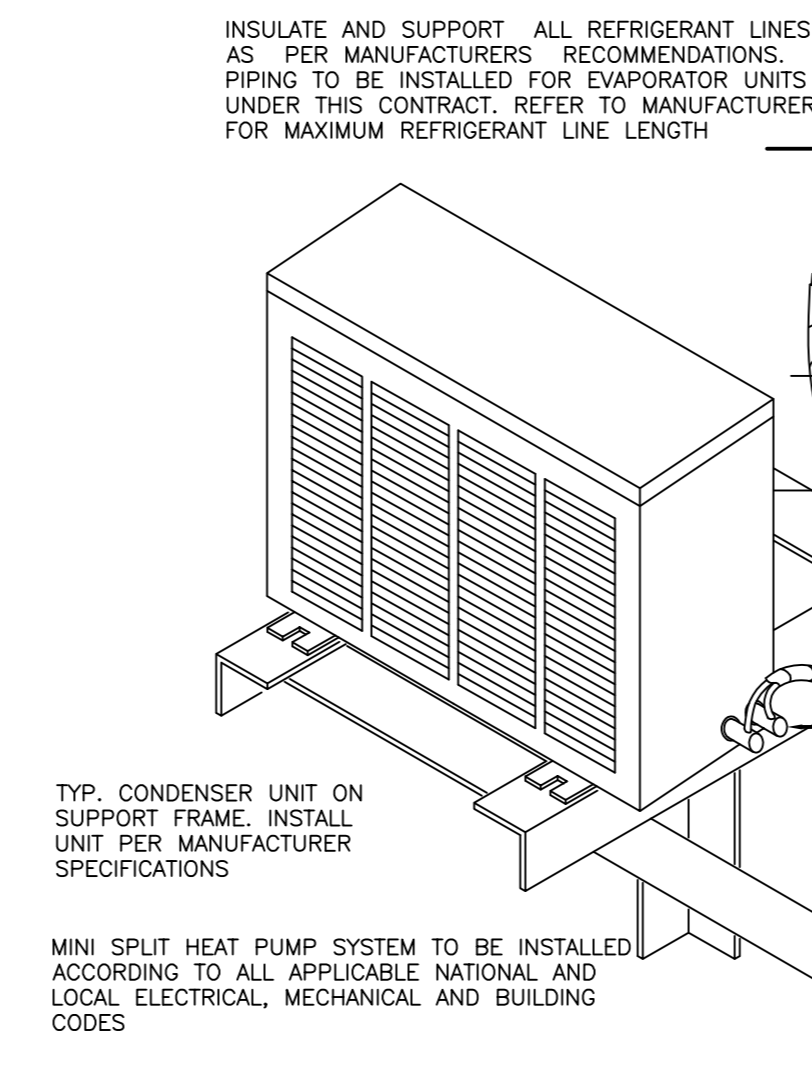
MINI SPLIT PIPING DETAIL

SCALE : N.T.S.



MINI SPLIT HUNG CONDENSOR DETAIL

SCALE : N.T.S.



1/M101 DRAWING LEGEND

- FE WALL MOUNTED 10 LB FIRE EXTINGUISHER

1/M101 PLAN NOTES:

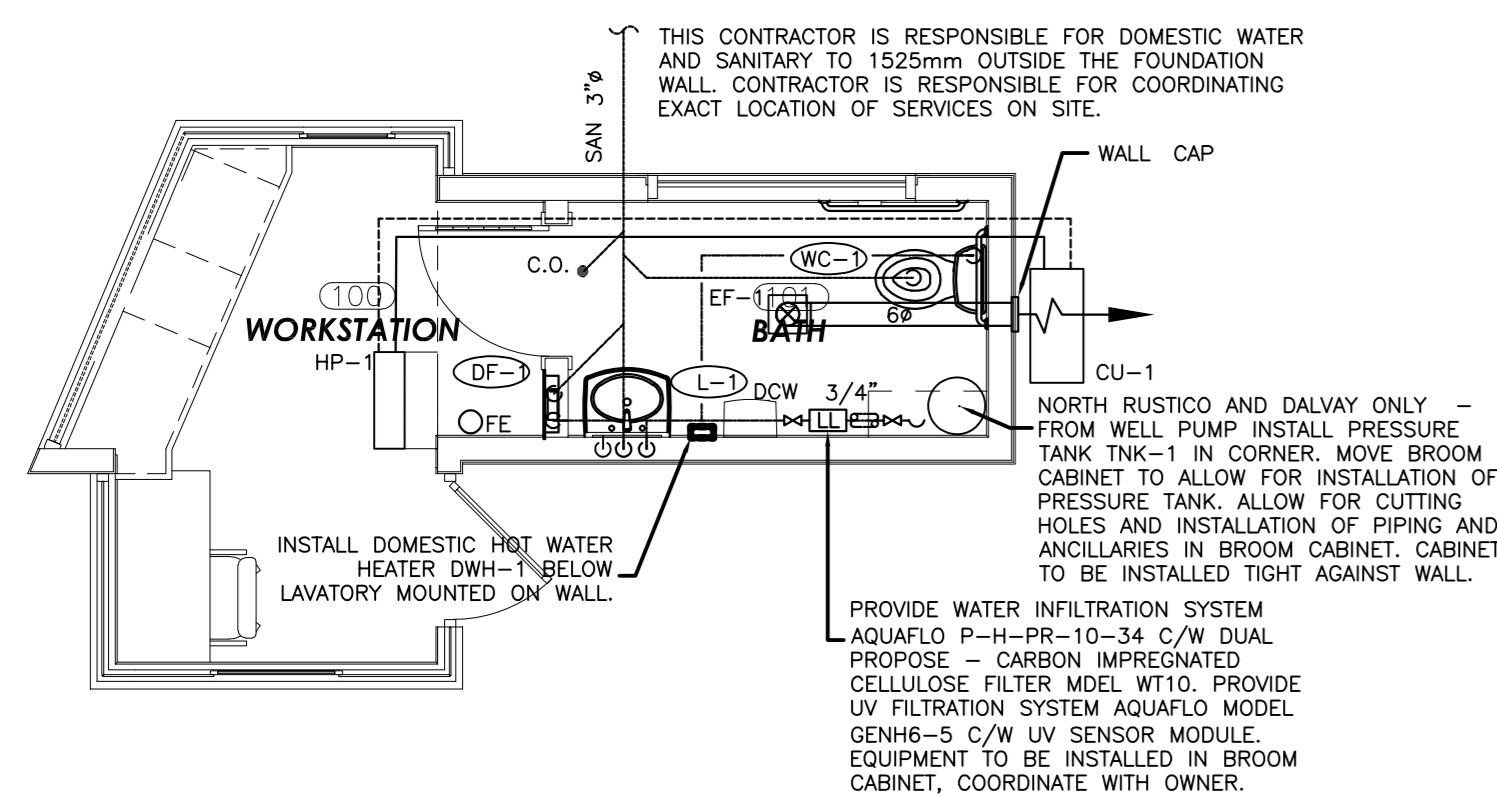
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH N.B.C.C., N.F.P.A. AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL PROVIDE FULLY FUNCTIONAL MINI-SPLIT HEAT PUMP INSTALLATIONS, INCLUDING THE SUPPLY AND INSTALLATION OF THE HEAT PUMP AND LISTED ACCESSORIES AND EQUIPMENT AS PER THE MANUFACTURER'S RECOMMENDATIONS.
3. 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.P.H.B. FREEZE PROOF HOSE BIB

PLUMBING NOTES:

1. 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.
2. PROVIDE VENTING TO LATEST EDITION OF NATIONAL PLUMBING CODE. COORDINATE WITH BUILDING CONTRACTOR.
3. SLOPE ALL SANITARY 1/8" TO 1'-0" UNLESS OTHERWISE NOTED.
4. ALL SANITARY PIPING TO BE ABS. ALL EXPOSED VISIBLE PIPING TO BE CHROME.
5. ALL DOW AND DHW TO BE COPPER TYPE L, UNLESS OTHERWISE NOTED. INSULATE ALL COPPER LINES WITH 1" INSULATION.
6. CONNECT TO FIXTURES AS PER PLUMBING SCHEDULE. THIS PAGE. PROVIDE STOPS AT ALL PLUMBING FIXTURES.
7. 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.
8. ALL DOMESTIC WATER PIPING TO BE FLUSHED, 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.
9. 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.
10. 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.
11. LEAVING SANITARY LOCATIONS, INVERTS, CONDITIONS, AVAILABLE GRADE AND DIRECTION OF FLOW SHALL BE VERIFIED ON SITE BY THIS CONTRACTOR BEFORE ANY PLUMBING IS STARTED.
12. INCOMING WATER LOCATIONS AND CONDITIONS SHALL BE VERIFIED ON SITE BY THIS CONTRACTOR BEFORE ANY PLUMBING IS STARTED.
13. SLOPE ALL DOMESTIC HOT AND COLD WATER LINES FOR SEASONAL DRAINAGE.
14. 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.
15. ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
16. PROVIDE TRAP PRIMER FUNNEL FLOOR DRAIN AS REQUIRED BY NPC AND AHJ.
17. ALL DOMESTIC PIPE SIZES SHOWN ARE BASED ON STANDARD COPPER PIPE.



MECHANICAL PLAN

SCALE : 1:50



0m 1m 2m 3m 4m 5m

HEAT PUMP UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	LOCATION	SUPPLY FAN LPS	ESP. (in. w.c.)	NOMINAL COOLING CAP. KW	ELECTRIC MCA AMPS	ELECTRICAL DATA	REMARKS
HP-1	FITJITSU	ASUBRLS3 A0UBRLS3H	WORKSTATION	231	-	2.6	14.4	208/1/60	C/W DISCONNECT, EXT. WALL MOUNT KIT

PLUMBING FIXTURE SCHEDULE

TYPE	DESCRIPTION	STANDARD OF ACCEPTANCE
L-1	WASHROOM LAVATORIES	AMERICAN STD LUCERNE BARRIER FREE WALL HUNG LAVATORY, MODEL 0355.012 C/W WALL HANGER AND DELTA 211.132 4" FAUCET.
W-1	WATER CLOSETS	AMERICAN STD. CHAMPION BARRIER FREE WATER CLOSET MODEL 211AA 154, C/W "EVERCLEAN" AND CENTOCO AM500STSCSS ANTIMICROBIAL, H.D. OPEN FRONT WHITE SEAT WITH COVER.
DF-1	BOTTLE FILLING STATION	EKLAY EZH20 MODEL EMASM, C/W MOUNTING FRAME

EXHAUST FAN SCHEDULE

TAG	MANUF.	MODEL	LOCATION	AIRFLOW (CFM)	E.S.P. (in. w.c.)	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

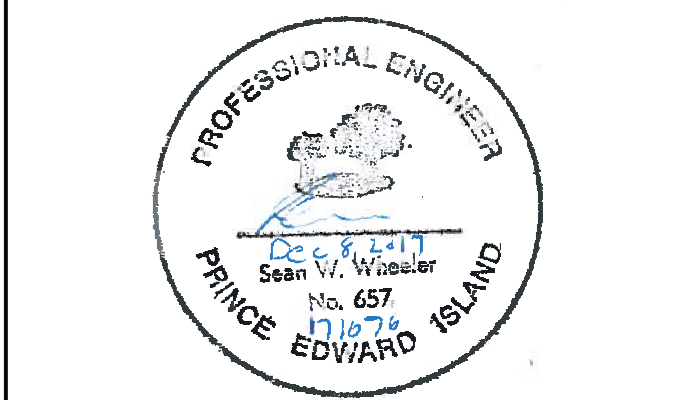
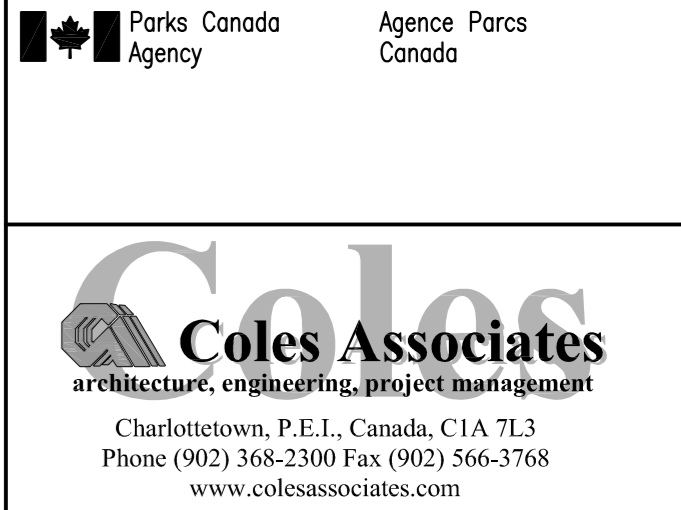
TAG	MANUF.	MODEL	CAP. (L)	RECOVERY @ 56C RISE (LPH)	KW	ELECT.	COMMENTS
DWH-1	BROADFORD WHITE	ES-2400-1-5-10	7	28	1.5	120V/1PH/60	MOUNT NEAR CEILING HEIGHT C/W OPTIONAL WALL MOUNTING BRACKETS

GENERAL NOTES:

1. GENERAL
 - 1.1. SCOPE OF WORK
 - 1.1.1. THE WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS AS INDICATED.
 - 1.2. COOPERATION WITH OTHER TRADES
 - 1.2.1. CONTRACTOR MUST COORDINATE CLOSELY WITH ALL OTHER TRADES AND WITH EXISTING SERVICES AS CEILING SPACE WILL BE LIMITED IN SOME PLACES.
 - 1.3. EXAMINATION OF SITE
 - 1.3.1. 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.
 - 1.4. PERMITS, FEES AND CERTIFICATES
 - 1.4.1. SUPPLY FOR OBTAIN, AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED.
 - 1.5. INSTALLATION AND COMMISSIONING OF EQUIPMENT
 - 1.5.1. 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.
 - 1.5.2. 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.
 - 1.5.3. FOLLOW MANUFACTURER'S INSTRUCTIONS IN DETAIL IN ESTABLISHING COMMISSIONING PROCEDURE.
 - 1.6. DEMONSTRATION OF COMPLETE SYSTEMS
 - 1.6.1. 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.
 - 1.7. FINAL INSPECTION
 - 1.7.1. 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.
 - 1.7.2. ALL OF THE ABOVE MUST BE COMPLETED PRIOR TO THE FINAL INSPECTION BY THE ENGINEER AND SUBSTANTIAL COMPLETION OF THE MECHANICAL SYSTEMS.
 - 1.8. SHOP DRAWINGS
 - 1.8.1. CONTRACTOR TO SUBMIT TWO (2) SETS OF SHOP DRAWINGS AND AUTHORITIES HAVING JURISDICTION. PIPING TO BE INSTALLED TO ALLOW FOR COMPLETE DRAINAGE AND WINTERIZATION OF SYSTEMS.
 - 1.9. OPERATION AND MAINTENANCE MANUAL
 - 1.9.1. CONTRACTOR TO PROVIDE MAINTENANCE MANUALS FOR ALL EQUIPMENT INSTALLED. THREE (3) COPIES ORGANIZED IN 8 1/2" x 11" BINDERS TO BE PROVIDED.
- 1.10. RECORD DRAWINGS
 - 1.10.1. CONTRACTOR TO PROVIDE AS-BUILT RECORD DRAWINGS.
- 1.11. IDENTIFICATION
 - 1.11.1. PROVIDE ON EACH PIECE OF EQUIPMENT A METAL NAMEPLATE, MECHANICALLY FASTENED WITH RAISED OR RECESSED LETTERS.
 - 1.11.2. DUCT IDENTIFICATION:

- 1.11.2.1. USE 2" HIGH BLACK STENCILED LETTERS WITH DIRECTIONAL FLOW ARROW.
- 1.11.2.2. STENCIL OVER FINAL FINISH ONLY.
- 1.11.3. IDENTIFY MEDIUM IN PIPING WITH MARKERS OR STENCILS SHOWING NAME AND SERVICE INCLUDING TEMPERATURE, PRESSURE, AND DIRECTIONAL FLOW ARROWS WHERE RELEVANT.
- 1.12. STANDARDS OF ACCEPTANCE
 - 1.12.1. 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.
 - 1.12.2. CLEANING AND FINAL ADJUSTMENT
 - 1.12.2.1. SUPPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED TO OPERATE EFFICIENTLY.
 - 1.13. CLEANING AND FINAL ADJUSTMENT
 - 1.13.1. BALANCE AND ADJUST ALL SYSTEMS AND EACH PIECE OF EQUIPMENT TO OPERATE EFFICIENTLY.
 - 1.14. CUTTING AND PATCHING
 - 1.14.1. ALL CUTTING AND PATCHING WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
 - 1.15. EXCAVATION AND BACKFILLING
 - 1.15.1. ALL EXCAVATION AND BACKFILLING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 1.16. PROTECTION OF OPENINGS
 - 1.16.1. PROTECT EQUIPMENT, SYSTEM OPENINGS INCLUDING ROUGH-IN PLUMBING FROM DIRT, DUST AND OTHER FOREIGN MATERIALS WITH MATERIALS COMPATIBLE TO THE SYSTEM.
2. INSULATION
 - 2.1. PIPING
 - 2.1.1. PROVIDE 1" INSULATION TO ALL PIPING, VALVES AND FITTINGS FOR ALL HEATING WATER AND DOMESTIC COLD AND HOT WATER.
 - 2.1.1.1. STANDARD OF ACCEPTANCE:
 - 2.1.1.1.1. RIGID PIPE: MANSON ALLEY K APT, OWENS CORNING, OWENS CORNING VAPOURLOCK, MANVILLE MICRO LOK, KNAUF
 - 2.1.2. 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:
 - 2.1.3.1. CHROME-PLATED PIPING, FLANGES AND VALVE BONNETS ON DOMESTIC HOT AND COLD WATER SERVICES, EXCEPT AS REQUIRED BY CODE.
 - 2.1.3.2. SANITARY DRAINAGE PIPING
 - 2.2. DUCTWORK
 - 2.2.1. PROVIDE 1" THICK FIBERGLASS DUCT INSULATION C/W FACTORY APPLIED FOIL SCRM-KRAFT VAPOR JACKET ON ALL EXHAUST DUCTWORK TO FT IN FROM EXTERIOR WALL.
 3. PLUMBING
 - 3.1. GENERAL
 - 3.1.1. 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.
 - 3.2. PIPING
 - 3.2.1. SANITARY PIPING TO BE PVC PLASTIC, SLOPED AT 1/8" TO 1'-0".
 - 3.2.2. DRAINAGE AND VENTS - TYPE L COPPER
 - 3.2.3. WATER ABOVE GRADE - TYPE L COPPER
 - 3.3. HANGERS
 - 3.3.1. CLEVIS TYPE WITH THREADED RODS.
 - 3.4. SPECIALTIES
 - 3.4.1. FUNNEL FLOOR DRAINS
 - 3.4.1.1. ZURN #2N451BF
 - 3.4.2. FROST PROOF HOSE BIB
 - 3.4.2.1. ZURN #21321

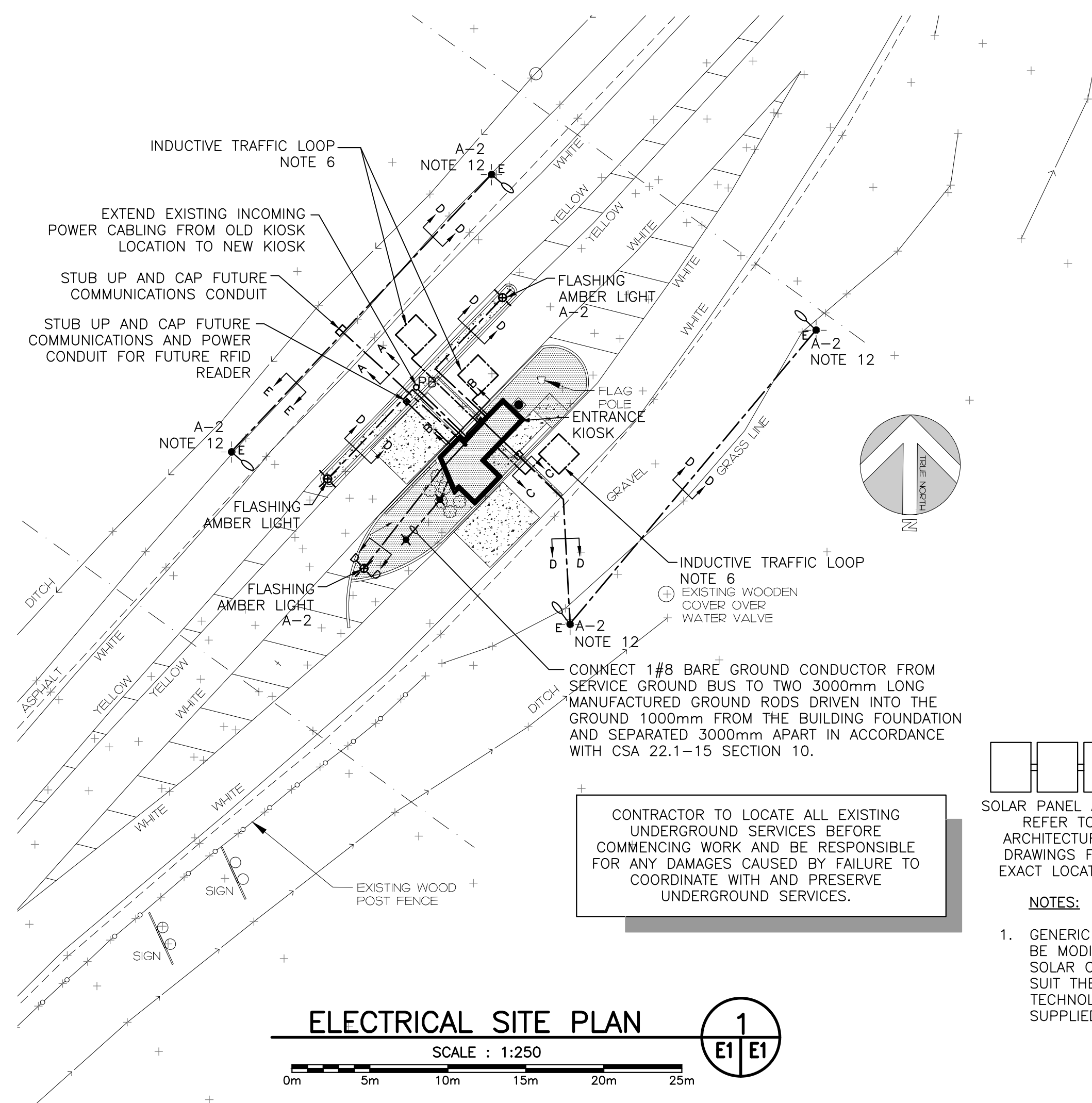
- 3.5. VALVES
 - 3.5.1. DOMESTIC WATER - JENKINS FIG. 901A OR FIG. 902A
- 3.6. WATER SUPPLY WELL (RUSTICO AND DALVAY ONLY)
 - 3.6.1. GENERAL
 - 3.6.1.1. REUSE EXISTING WELL, WELL PUMP AND CASING.
 - 3.6.2. PERMITS AND CERTIFICATES
 - 3.6.2.1. PROVIDE ALL PERMITS, CERTIFICATES AND CONFORM TO ALL REGULATIONS IN PROVIDING AND FITTING UP THE WELL.
 - 3.6.3. REPORTS
 - 3.6.3.1. ON COMPLETION OF WORK, SUBMIT TO ENGINEER REPORT CONTAINING:
 - 3.6.3.1.1. RESULTS OF TESTING OF WATER SAMPLE FOR SUSPENDED SOLIDS, CHEMICALS AND BACTERIOLOGICAL CONTENT.
 4. HEATING
 - 4.1. MINI-SPLIT HEAT PUMP
 - 4.1.1. PER SCHEDULE - INSTALLED PER MANUFACTURER'S INSTRUCTION.
 - 4.2. BASEBOARD HEATERS
 - 4.2.1. BY DIVISION 26
 5. VENTILATION
 - 5.1. GENERAL
 - 5.1.1. 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.



**PARKS CANADA AGENCY
PARKS CANADA KIOSKS PHASE 1**

MECHANICAL PLANS, DETAILS, AND SCHEDULES

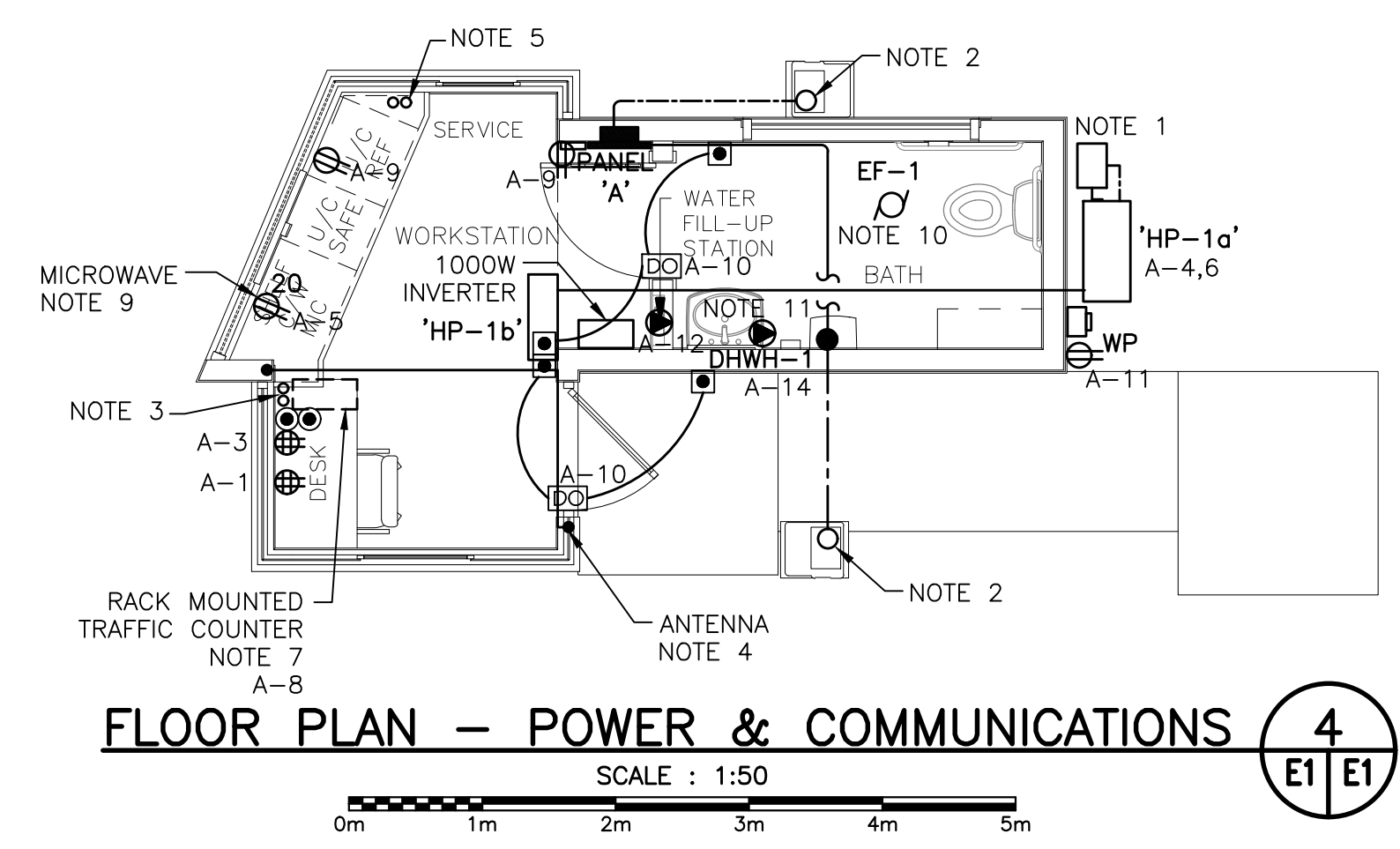
designed	SWW, P.ENG	conçu
date	December 8, 2017	
drawn	SWW, P.ENG	dessiné
date	December 8, 2017	
approved		approuvé
date		
Tender		Submission
Project Manager	Administrateur de projets TPSC	
project number		no. du projet
	171076	
drawing no.		no. du dessin
	M1	



ELECTRICAL SITE PLAN
 SCALE : 1:250
 0m 5m 10m 15m 20m 25m

DEMAND CALCULATION				
BASIC LOAD CALCULATION - REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)				
REFERENCING CEC 22.1-15 TABLE 14				
DESIGNATION	AREA (m ²)	TYPE OF OCCUPANCY	W/m ²	DEMAND %
OFFICE	12.5	OFFICE	50	100%
TOTAL DEMAND (W)			625	
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	4133	75%	3099	
TOTAL BASIC DEMAND (W)			625	
TOTAL SPECIAL DEMAND (W)			3099	
TOTAL ELECTRIC DEMAND (W)			3725	
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE				
x 1.25% SPARE CAPACITY				
19A				

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 & COMMUNICATIONS
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m

GENERAL LEGEND

- LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
- HEAVY LINEWEIGHT INDICATES NEW WORK
- UNDERGROUND WIRING
- WIRING UP
- WIRING DOWN
- CONDUIT STUB
- GROUND ROD

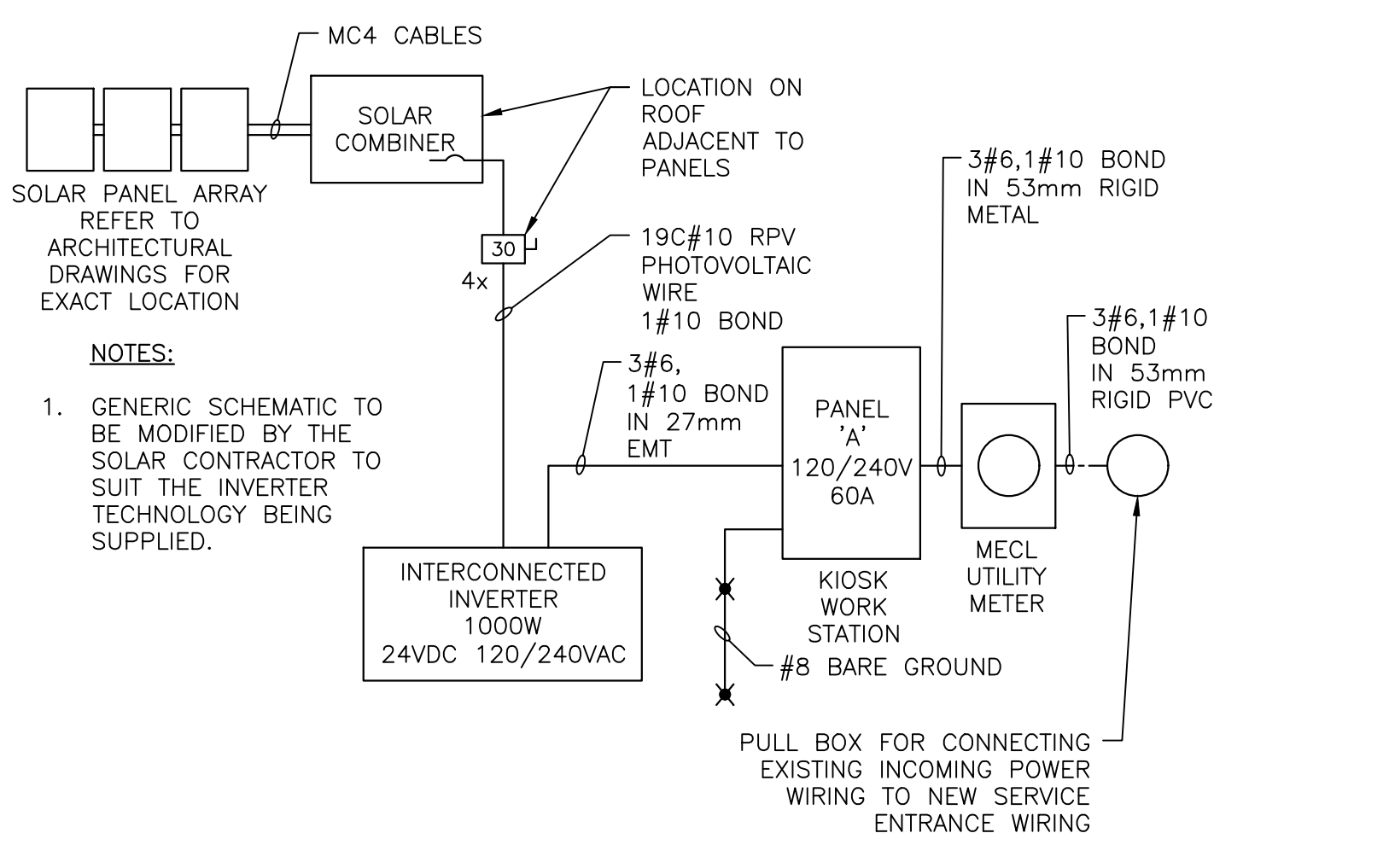
A-10a INDICATES CIRCUIT #10 IN PANEL 'A'
 a - INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS

GENERAL SUB SCRIPTS

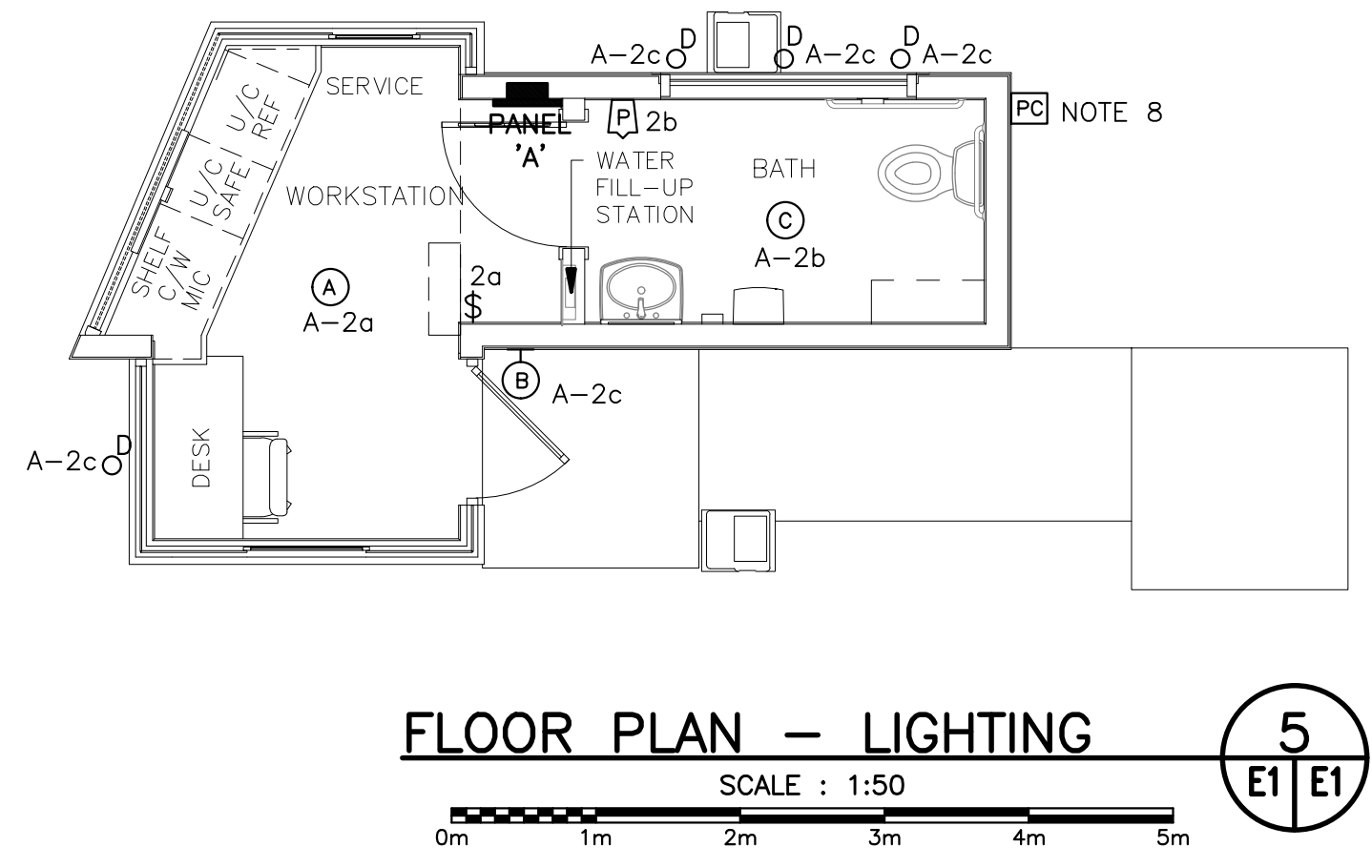
4x - INDICATES NEMA 4x ENCLOSURE

ELECTRICAL LEGEND

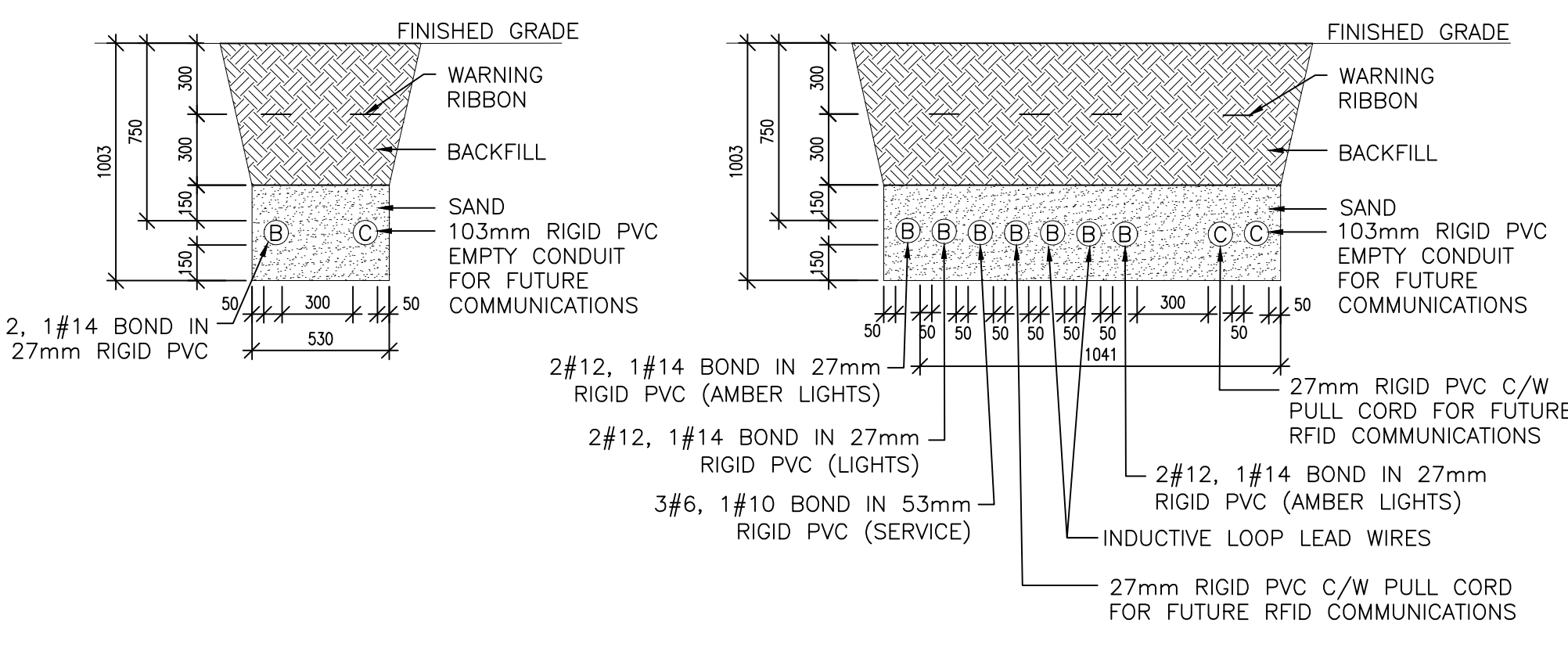
- DUPLEX RECEPTACLE
- ⊕ QUAD RECEPTACLE
- RECEPTACLE SUB SCRIPTS:
- 20 - INDICATES CSA TYPE 5-20R
- WP - INDICATES RECEPTACLE GFCI C/W WEATHER PROOF WHILE IN USE COVER
- ⊖ 'A' ELECTRICAL PANEL, RECESSED MOUNTED 'A' INDICATES PANEL DESIGNATION
- SINGLE PHASE MOTOR
- DISCONNECT SWITCH
- DIRECT CONNECTION
- PULL BOX
- UTILITY METER
- LUMINAIRE, SUSPENDED OR SURFACE MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
- LUMINAIRE, WALL MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
- LUMINAIRE, POLE MOUNTED F - INDICATES TYPE IN LUMINAIRE SCHEDULE
- SINGLE POLE SWITCH
- PIR OCCUPANCY SENSOR WALL SWITCH, 120V
- PHOTOCELL
- POWER ASSISTED DOOR PUSH BUTTON
- POWER ASSISTED DOOR OPENER
- GATE ARM PUSH BUTTON



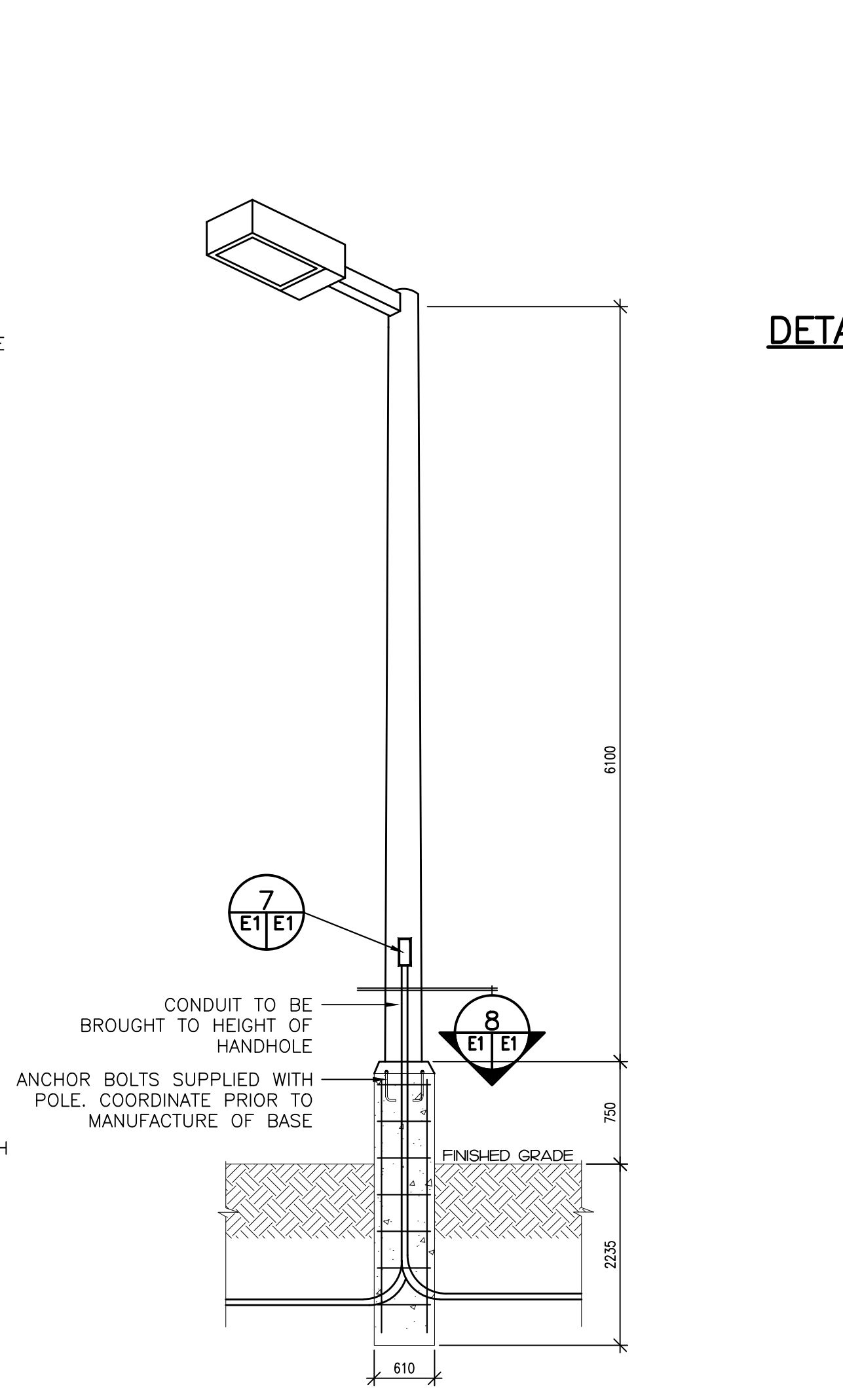
UTILITY / SOLAR SERVICE SCHEMATIC
 SCALE : N.T.S.



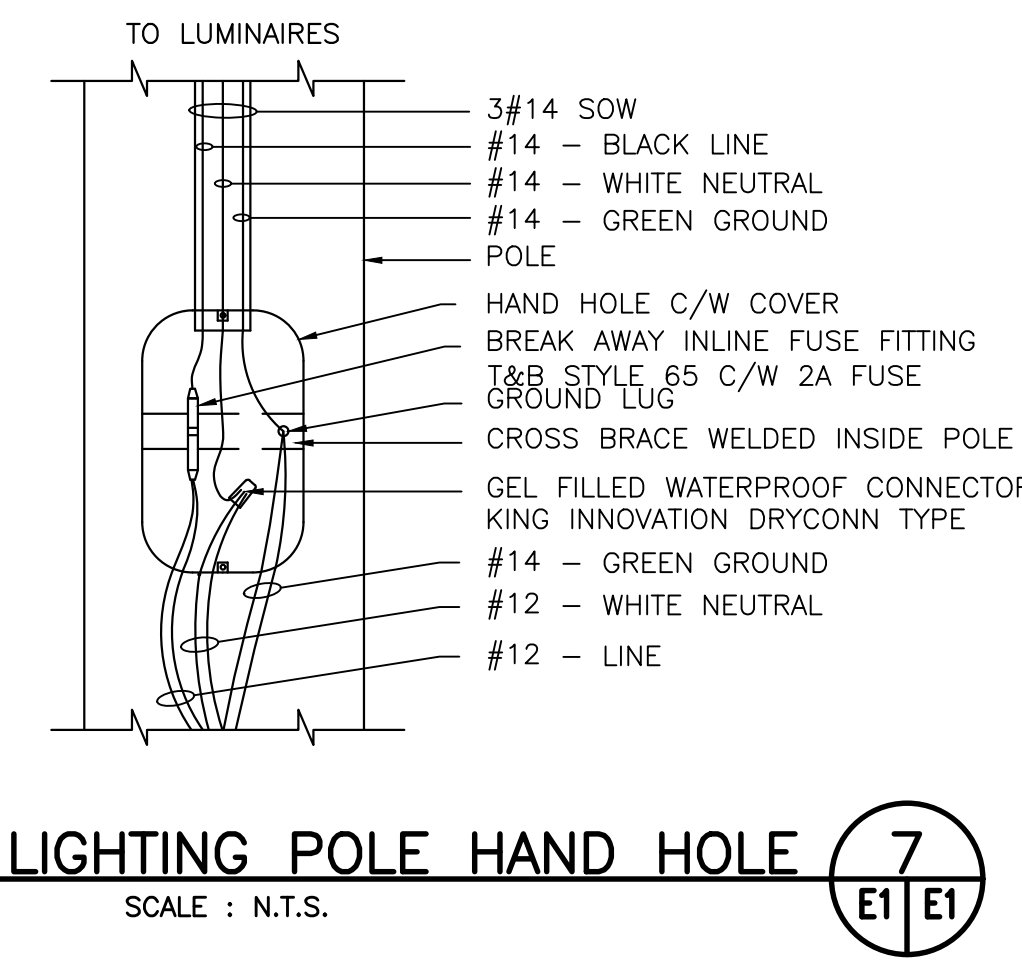
FLOOR PLAN - LIGHTING
 SCALE : 1:50
 0m 1m 2m 3m 4m 5m



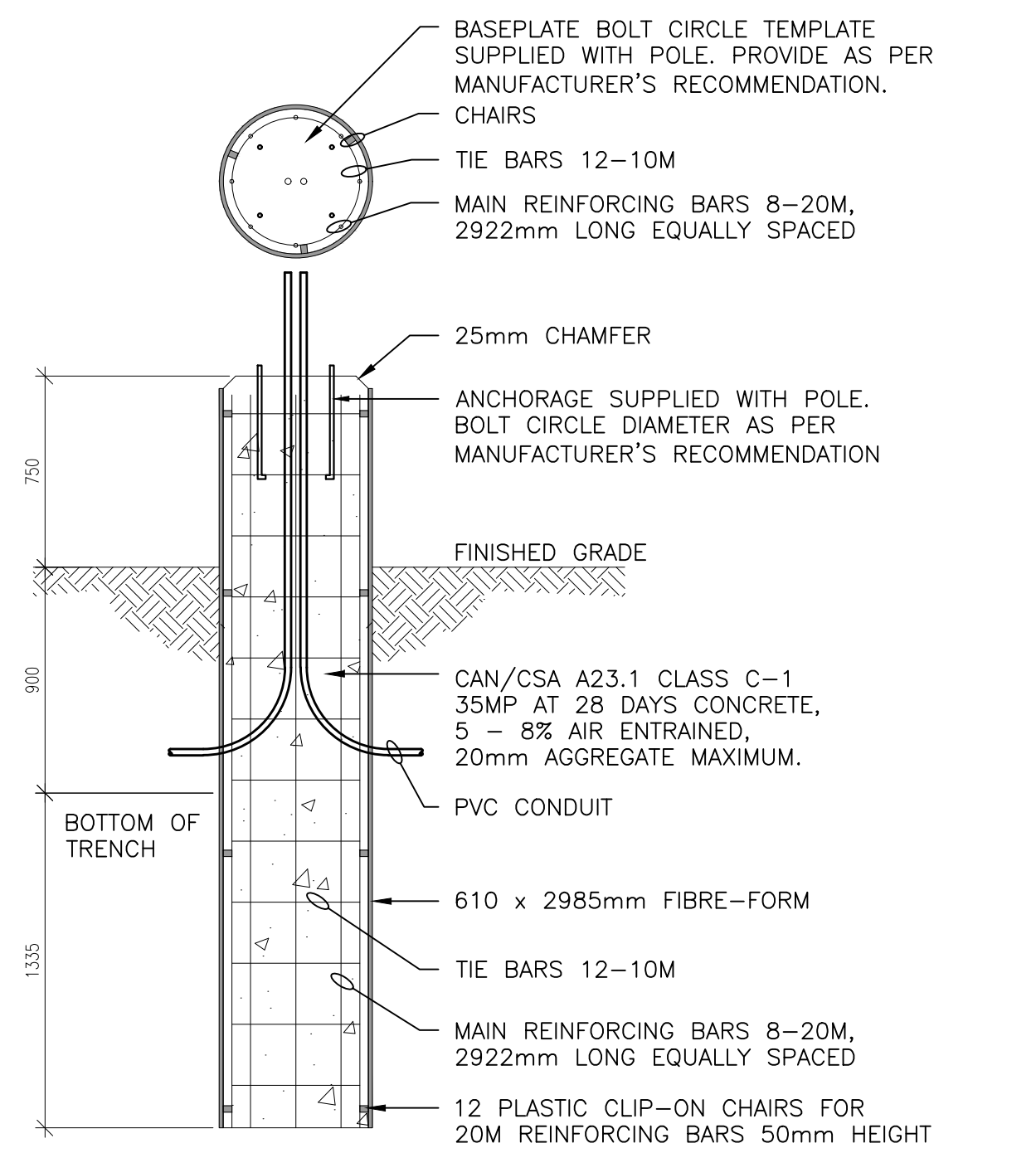
TRENCH DETAILS
 SCALE : N.T.S.



DETAIL: LIGHTING STANDARD (TYPICAL)
 SCALE : N.T.S.



DETAIL: SITE LIGHTING POLE HAND HOLE
 SCALE : N.T.S.



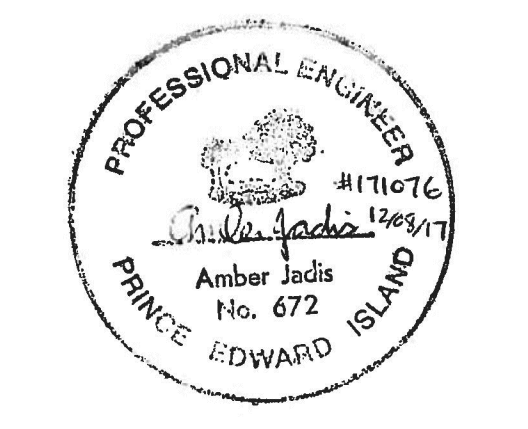
DETAIL: SITE LIGHTING BASE
 SCALE : N.T.S.

- NOTES:**
- HP-1 REQUIRES 230V, SINGLE PHASE, 2.6 KW POWER. INSTALL 2#12 TECK TO DISCONNECT SUPPLIED WITH OUTDOOR UNIT. WALL PATCHING AND SEALING TO BE COORDINATED WITH AND COMPLETED BY THE GENERAL CONTRACTOR. RUN EXTERIOR TECK CABLE ADJACENT TO LINES ON MECHANICAL LINE SUPPORTS.
 - STUB UP TWO 27mm RIGID PVC CONDUITS FOR GATE ARM. ONE CONDUIT TO CONTAIN 2#12, 1#14 RW90 AND TERMINATE AT PANEL 'A'. OTHER CONDUIT TO CONTAIN 2#16 AND TERMINATE AT PUSH BUTTONS LOCATED ON THE DESK GATE ARM TO OPERATE WITH PUSH BUTTON TO OPEN RESET LOOP EMBEDDED IN THE PAVEMENT TO CLOSE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZE, LOCATION AND CONNECTION OF RESET LOOP.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP UNDER THE DESK AT LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE TRAFFIC COUNTING SYSTEM AND RECEPTACLES A-1 AND A-3 SHALL FOLLOW THE SAME ROUTE.
 - ANTENNA AND CABLE SUPPLIED BY PARKS CANADA AND INSTALLED BY ELECTRICAL CONTRACTOR. ANTENNA CABLE TO BE RUN IN 16mm EMT CONDUIT IN CEILING SPACE AND WITHIN THE WALL, DOWN TO THE UNDERSIDE OF THE DESK. LEAVE 1.5m SLACK CABLE COILED AND SECURED TO THE UNDERSIDE OFF THE DESK.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE FRIDGE AND MICROWAVE SHALL FOLLOW THE SAME ROUTE.
 - PERFORMED, 1.8m x 1.8m, HIGH TEMPERATURE RATED INDUCTIVE LOOP FOR PERMANENT INSTALLATION UNDER ASPHALT C/W 15 OR 30m LEAD WIRE AS REQUIRED. INTERNATIONAL ROAD DYNAMICS INC. IS AN APPROVED MANUFACTURER. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - RACK MOUNTED TRAFFIC RECORDING SYSTEM CAPABLE OF INDEPENDENTLY MONITORING THREE LANES OF TRAFFIC AND STORING AT LEAST ONE YEAR OF TRAFFIC STATISTICS. TRAFFIC RECORDING SYSTEM TO BE HARDWIRED TO A DEDICATED 15A/1P CIRCUIT A-9 AND PROVIDE A 1.8m LONG USB 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. PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #K4251 OR APPROVED EQUAL.
 - CONFIRM MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
 - NEW 120V, SINGLE PHASE, 0.27A EXHAUST FAN. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-2 THROUGH WALL MOUNTED OCCUPANCY SENSOR.
 - NEW 120V, SINGLE PHASE, 1.5kW DHWH-1. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-14. DESK.
 - EXISTING LIGHT STANDARDS TO BE REPLACED. TURN OVER EXISTING LED LUMINAIRES TO PARKS CANADA.

DESIGNATION	LOAD		P	BKR	CIRCUIT	BKR	P	LOAD		DESIGNATION	
	A	B						A	B		
RECEPTACLES - DESK	240		1	15	1	A	2	15	1	363	LIGHTING & EF-1
RECEPTACLES - DESK	240		1	15	3	B	4	20	2	1300	HP-1a
MICROWAVE	1000		1	20	5	A	6			1300	
GATE ARM	864		1	20	7	B	8	15	1	120	TRAFFIC COUNTER
RECEPTACLES	500		1	15	9	A	10	15	1	100	DOOR OPERATOR
EXTERIOR RECEPTACLES	120		1	15	11	B	12	15	1	100	WATER FILLING
			1	13	A	14	20	1	1	1500	DHWH-1
			1	15	B	16	15	1			SPARE
			1	17	A	18	15	1			SPARE
			1	19	B	20	15	1			SPARE
			1	21	A	22	1				
			1	23	B	24	1				
PHASE LOADS:	1740	1224								3263	1520
TOTAL PHASE LOADS:	5003	2744									
TOTAL LOADS:	7747										
CURRENT AT 240V/1PH:	32										

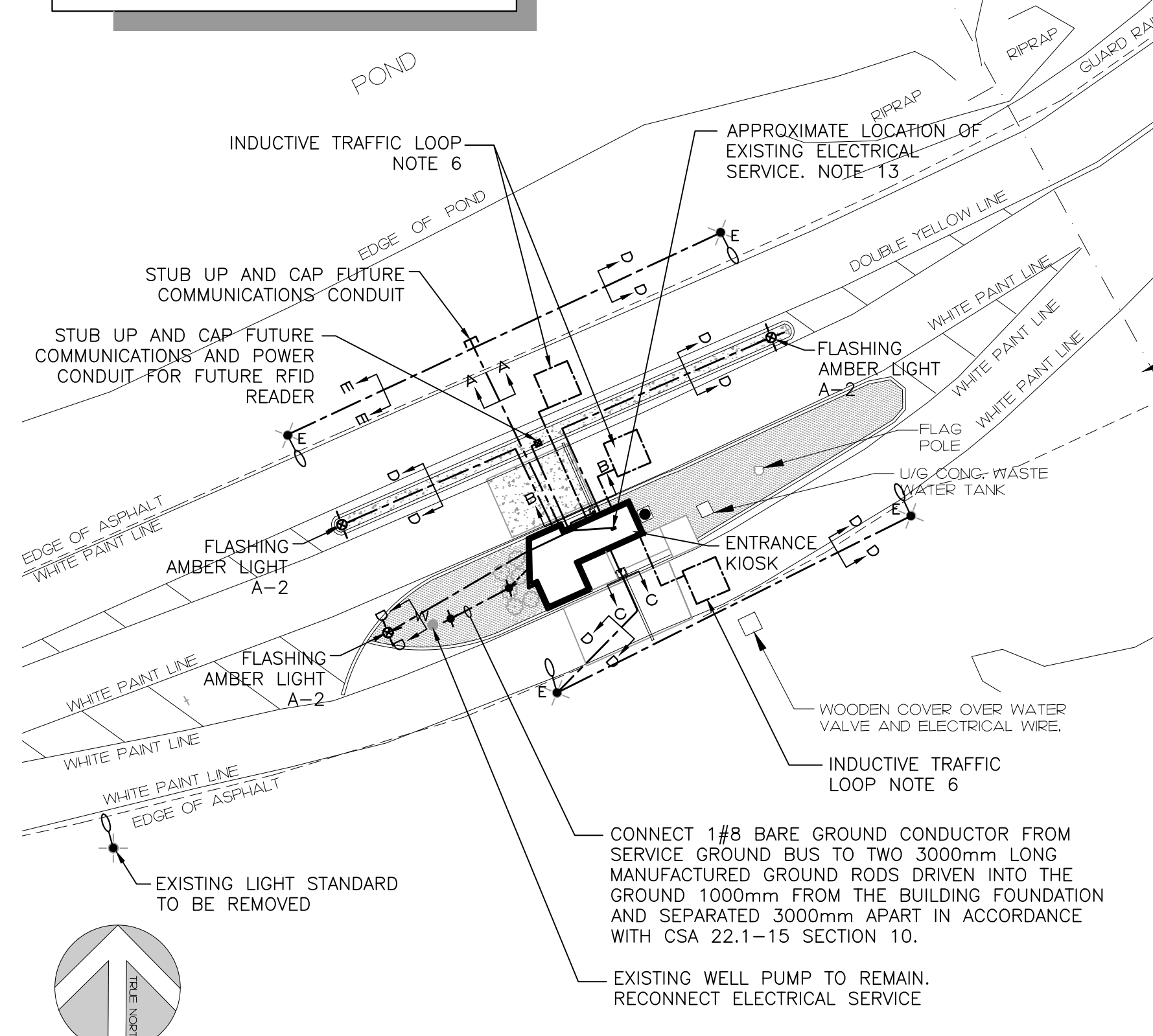
(*) INDICATES LOCKING BREAKER

SUPPLY: 120/240V, 1φ, 3w
 MAINS: 60A MB, TOP FED
 NUMBER OF CIRCUITS: 24
 MOUNTING: RECESSED



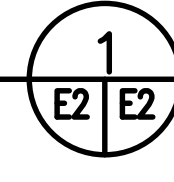
0	ISSUED FOR TENDER	12/08/2017
revisions		date
project	PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1	project
drawing	CAWNPORE LANE KIOSK ELECTRICAL	design
designed	A.D.J., P.ENG	congr
date	October 18, 2017	
drawn	M.E.M., C.E.T.	dessiné
date	October 18, 2017	
approved	A.D.J., P.ENG	approuvé
date		
Tender	Soumission	
PCA Project Manager	Administrateur de projets APC	
project number	no. du projet	
	171076	
drawing no.	no. du dessin	
	E1	

CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE UNDERGROUND SERVICES.



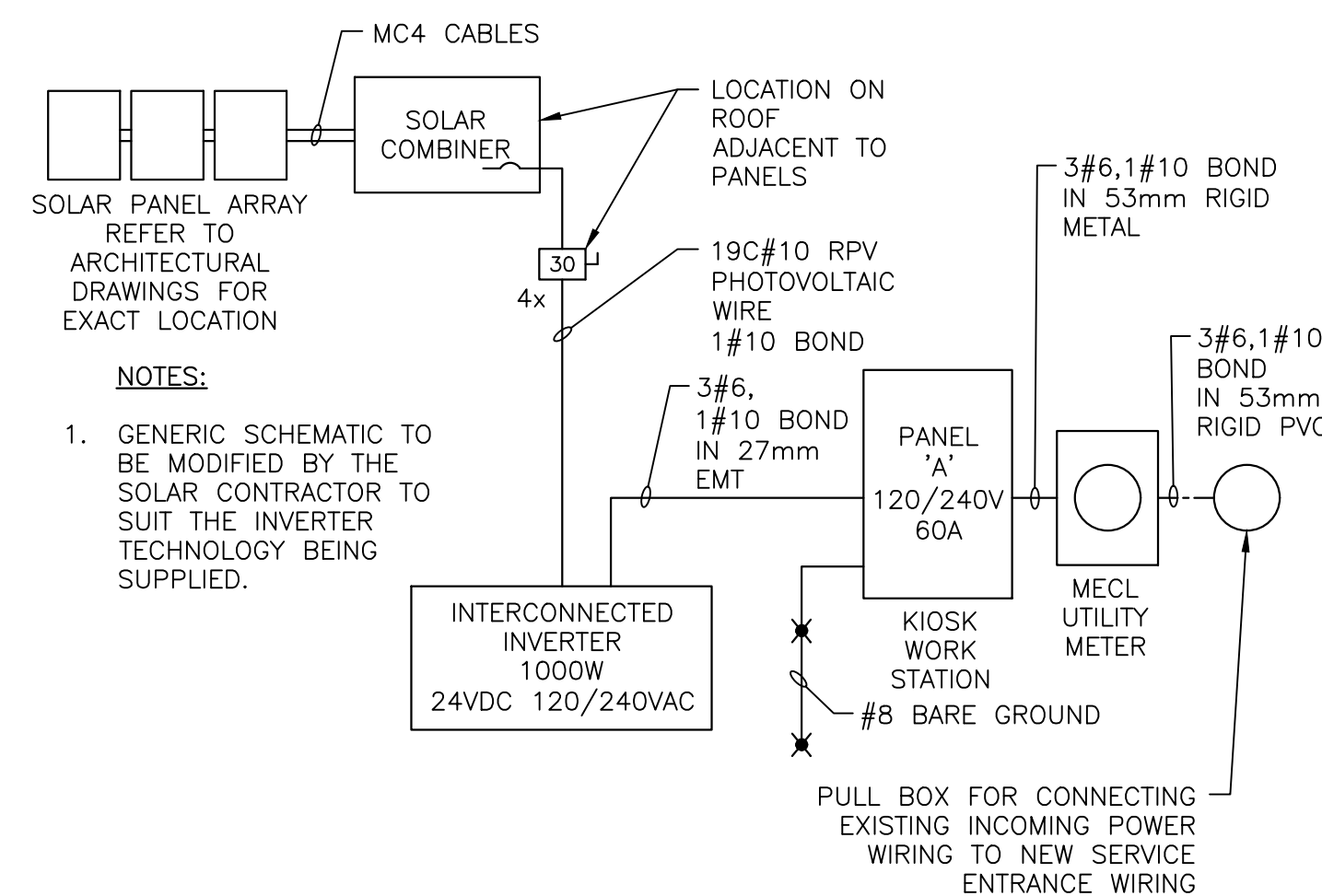
ELECTRICAL SITE PLAN

SCALE : 1:250



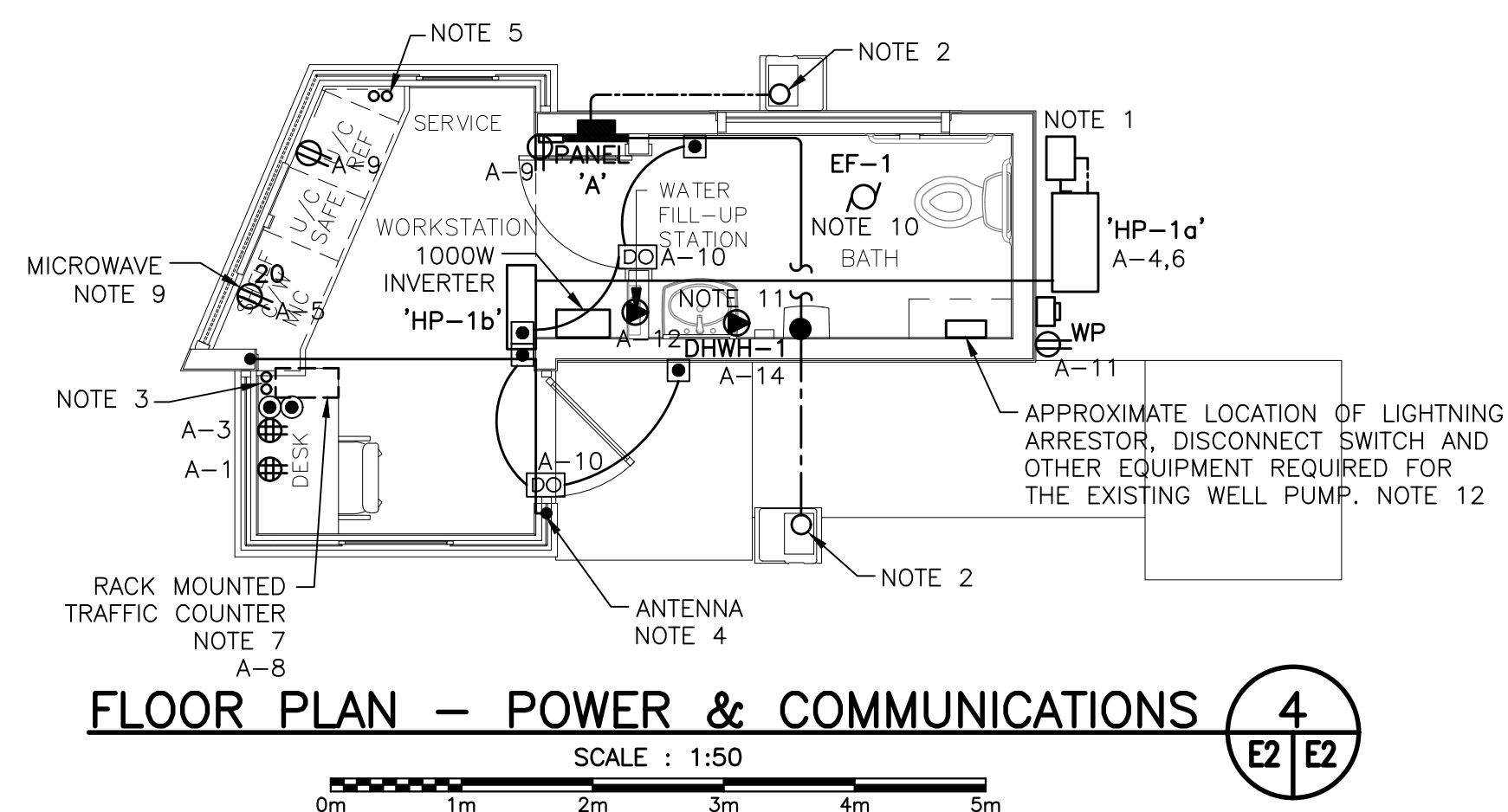
DEMAND CALCULATION					
BASIC LOAD CALCULATION - REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)					
REFERENCING CEC 22.1-15 TABLE 14					
DESIGNATION	AREA (m ²)	TYPE OF OCCUPANCY	W/m ²	DEMAND %	
OFFICE	12.5	OFFICE	50	100%	
				TOTAL DEMAND (W)	625
SPECIAL LOAD CALCULATION - REFERENCING CEC 22.1-15 8-210 (b), AND 62-118 (5)					
DESIGNATION	TOTAL LOAD (W)	DEMAND %	TOTAL DEMAND (W)		
HP-1, DHWH-1, EF-1, WELL PUMP	5333	75%	4000		
				TOTAL BASIC DEMAND (W)	625
				TOTAL SPECIAL DEMAND (W)	4000
				TOTAL ELECTRIC DEMAND (W)	4625
REFERENCING CEC 22.1-15 8-210				TOTAL ELECTRIC DEMAND (W)	4625
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE					19A
x 1.25% SPARE CAPACITY					24A

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.



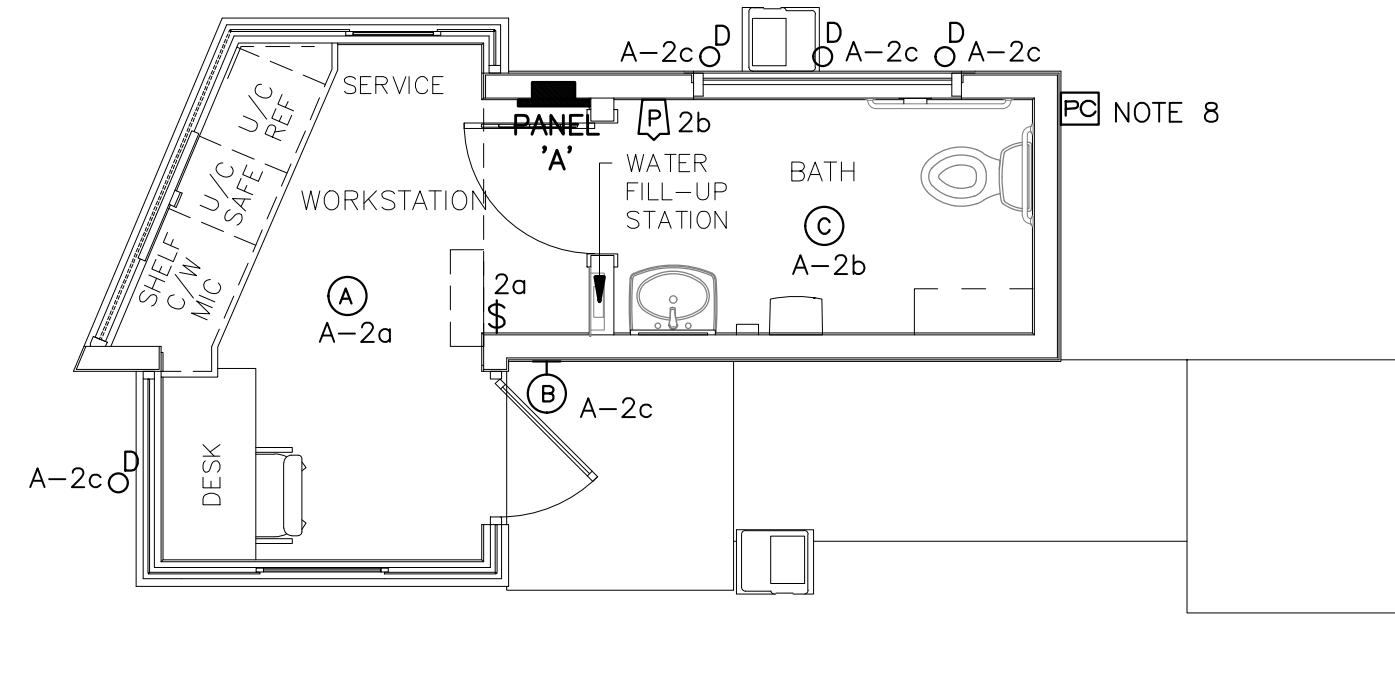
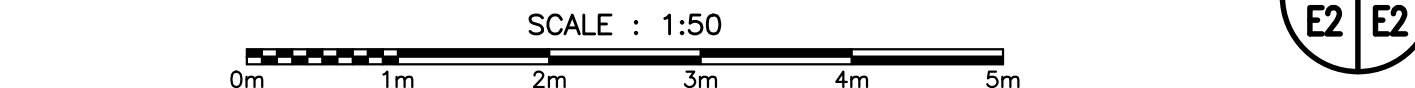
UTILITY / SOLAR SERVICE SCHEMATIC

SCALE : N.T.S.



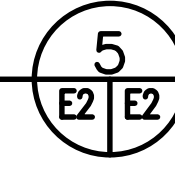
FLOOR PLAN - POWER & COMMUNICATIONS

SCALE : 1:50



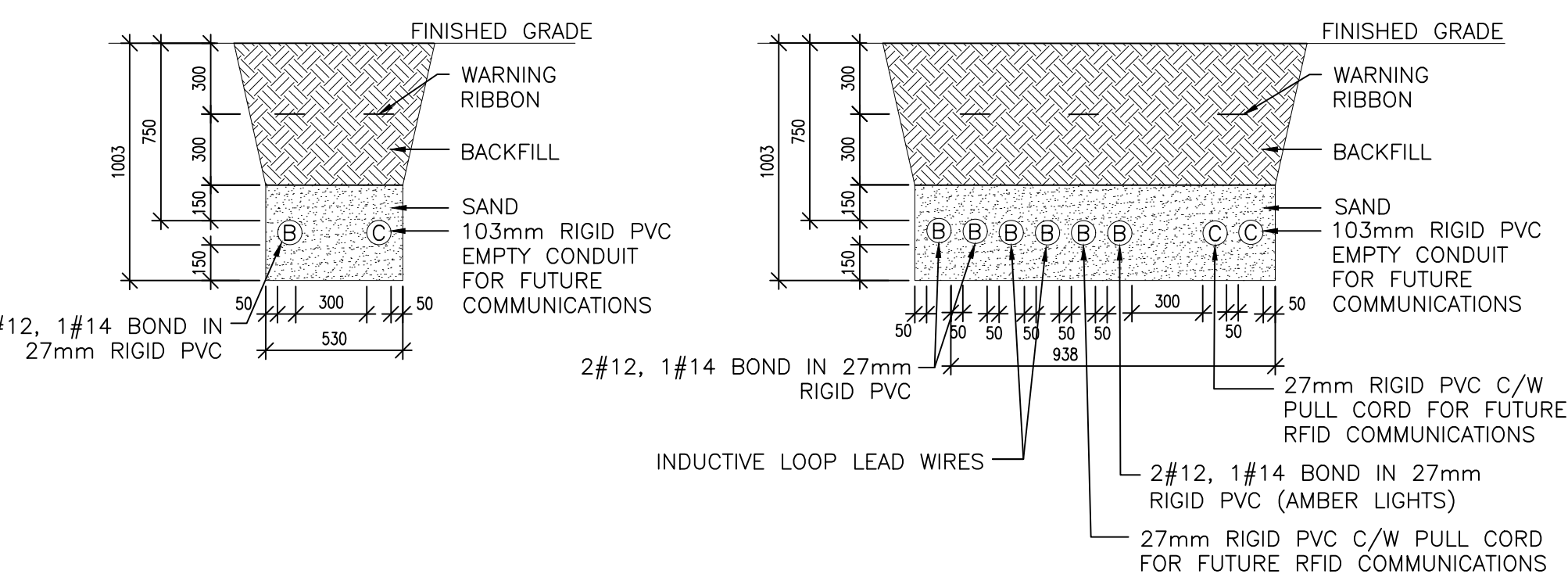
FLOOR PLAN - LIGHTING

SCALE : 1:50



NOTES:

- HP-1 REQUIRES 230V, SINGLE PHASE, 2.6 KW POWER. INSTALL 2#12 TECK TO DISCONNECT SUPPLIED WITH OUTDOOR UNIT. WALL PATCHING AND SEALING TO BE COORDINATED WITH AND COMPLETED BY THE GENERAL CONTRACTOR. RUN EXTERIOR TECK CABLE ADJACENT TO LINES ON MECHANICAL LINE SUPPORTS.
- STUB UP TWO 27mm RIGID PVC CONDUITS FOR GATE ARM. ONE CONDUIT TO CONTAIN 2#12, 1#14 RW90 AND TERMINATE AT PANEL 'A'. OTHER CONDUIT TO CONTAIN 2#16 AND TERMINATE AT PUSH BUTTONS LOCATED ON THE DESK GATE ARM TO OPERATE WITH PUSH BUTTON TO OPEN RESET LOOP EMBEDDED IN THE PAVEMENT TO CLOSE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZE, LOCATION AND CONNECTION OF RESET LOOP.
- PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP UNDER THE DESK AT LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE TRAFFIC COUNTING SYSTEM AND RECEPTACLES A-1 AND A-3 SHALL FOLLOW THE SAME ROUTE.
- ANTENNA AND CABLE SUPPLIED BY PARKS CANADA AND INSTALLED BY ELECTRICAL CONTRACTOR. ANTENNA CABLE TO BE RUN IN 16mm EMT CONDUIT IN CEILING SPACE AND WITHIN THE WALL, DOWN TO THE UNDERSIDE OF THE DESK. LEAVE 1.5m SLACK CABLE COILED AND SECURED TO THE UNDERSIDE OF THE DESK.
- PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN, ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE FRIDGE AND MICROWAVE SHALL FOLLOW THE SAME ROUTE.
- PREFORMED, 1.8m x 1.8m, HIGH TEMPERATURE RATED INDUCTIVE LOOP FOR PERMANENT INSTALLATION UNDER ASPHALT C/W 15 OR 30m LEAD WIRE AS REQUIRED. INTERNATIONAL ROAD DYNAMICS INC. IS AN APPROVED MANUFACTURER. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- RACK MOUNTED TRAFFIC RECORDING SYSTEM CAPABLE OF INDEPENDENTLY MONITORING THREE LANES OF TRAFFIC AND STORING AT LEAST ONE YEAR OF TRAFFIC STATISTICS. TRAFFIC RECORDING SYSTEM TO BE HARDWIRED TO A DEDICATED 15A/1P CIRCUIT A-8 AND PROVIDE A 1.8m LONG USB 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. PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #JK4251 OR APPROVED EQUAL.
- CONFIRM MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
- NEW 120V, SINGLE PHASE, 0.27A EXHAUST FAN. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-2 THROUGH WALL MOUNTED OCCUPANCY SENSOR.
- NEW 120V, SINGLE PHASE, 1.5KW DHWH-1. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-14.
- PROVIDE 2#12, 1#14 WIRING IN 16mmC FROM CIRCUIT A-13,15 TO WELL PUMP AND ASSOCIATED EQUIPMENT. REFER TO DETAIL 1/M1/M1 FOR ADDITIONAL INFORMATION. CONFIRM EXACT LOCATION OF EQUIPMENT BEFORE STARTING ELECTRICAL ROUGH-IN.
- PULL BACK AND RECONNECT EXISTING INCOMING POWER CABLING FROM OLD KIOSK LOCATION TO NEW KIOSK.



TRENCH DETAILS

SCALE : N.T.S.

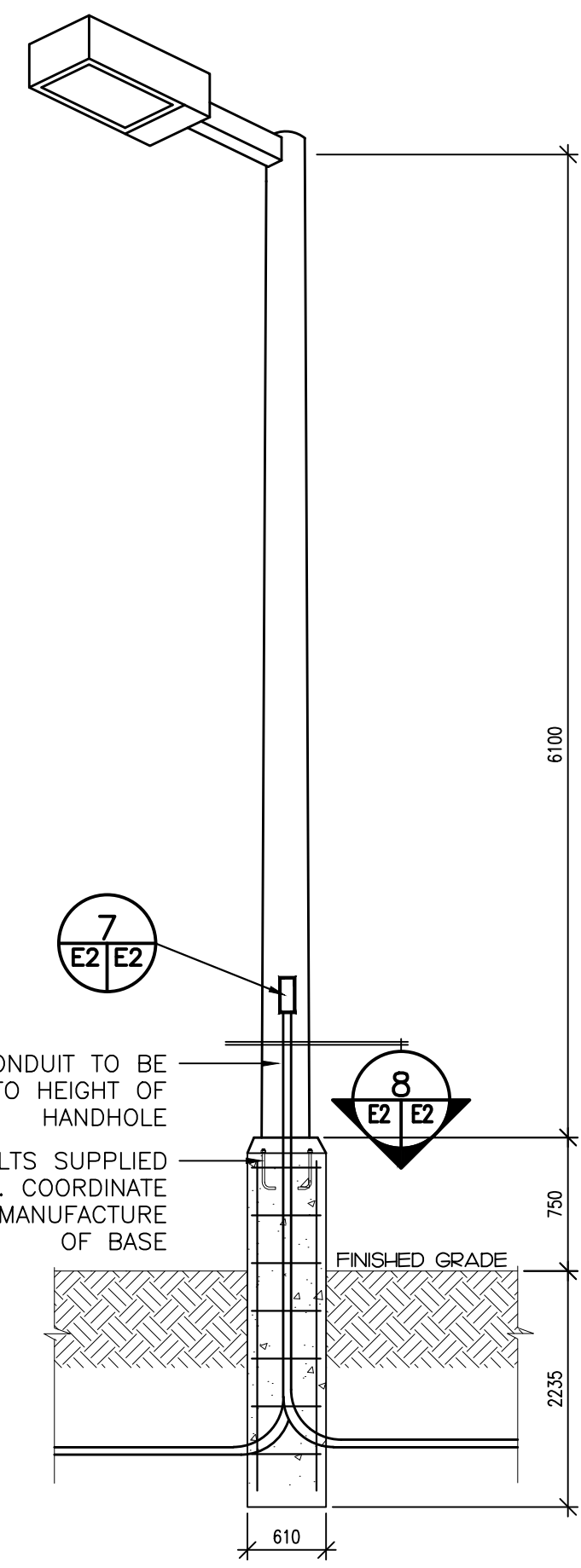


DETAIL NOTES:

- B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE AS INDICATED.
- C = COMMUNICATION CONDUIT 103mm PVC CONDUIT FOR UTILITY COMMUNICATIONS CABLES.
- S = SPARE CONDUIT C/W PULL ROPE QUANTITY AND SIZE AS INDICATED.
- BACKFILLING OF TRENCH IN LAYERS NOT EXCEEDING 300mm (MECHANICALLY TAMPED).
- USE NEW SOIL FREE FROM LARGE ROCKS OR DEBRIS FOR BACKFILL.
- IF SITE CONDITIONS PROHIBIT TRENCH AS PER THIS DRAWING, ADVISE CONSULTANT.
- ALL CABLES TO BE LABELED WITH WEATHER PROOF TAGS INDICATING THE DESTINATION OF THE CONDUITS.

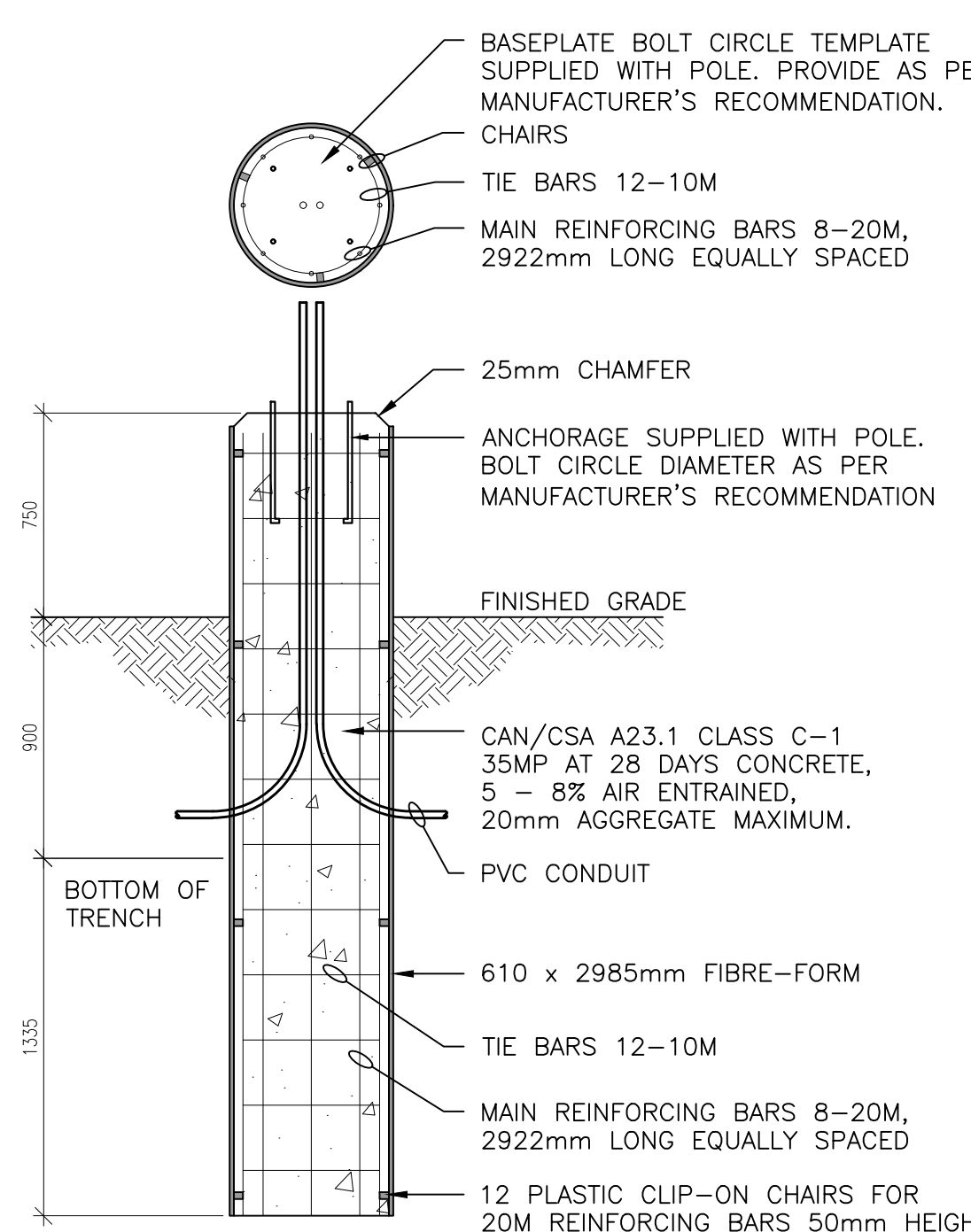
DETAIL: SITE LIGHTING POLE HAND HOLE

SCALE : N.T.S.



DETAIL: LIGHTING STANDARD (TYPICAL)

SCALE : N.T.S.



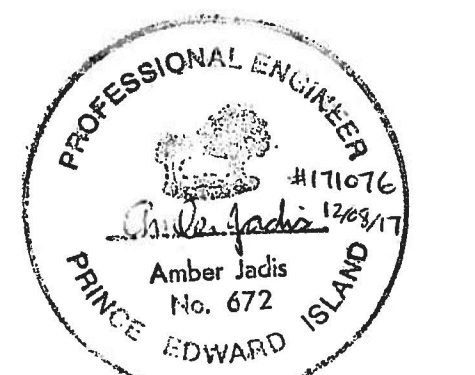
DETAIL: SITE LIGHTING BASE

SCALE : N.T.S.



DESIGNATION	LOAD		CIRCUIT				LOAD		DESIGNATION			
	A	B	P	BKR	A	B	A	B				
RECEPTACLES - DESK	240		1	15	1	A	2	15	1	363	LIGHTING & EF-1	
RECEPTACLES - DESK		240	1	15	3	B	4		2	1300	HP-1a	
MICROWAVE	1000		1	20	5	A	6		2	1300		
GATE ARM		864	1	20	7	B	8	15	1	120	TRAFFIC COUNTER	
RECEPTACLES	500		1	15	9	A	10	15	1	100	DOOR OPERATOR	
EXTERIOR RECEPTACLES	120		1	15	11	B	12	15	1	100	WATER FILLING	
WELL PUMP	600		2	15	13	A	14	20	1	1500	DHWH-1	
		600			15	B	16	15	1		SPARE	
					1	17	A	18	15		SPARE	
					1	19	B	20	15		SPARE	
					1	21	A	22	1			
					1	23	B	24	1			
PHASE LOADS:	2340	1824							3263	1520		
TOTAL PHASE LOADS:	5603	3344										
TOTAL LOADS:	8947								SUPPLY: 120/240V, 1Ø, 3w			
CURRENT AT 240V/1PH:	37								MAINS: 60A MB, TOP FED			
										NUMBER OF CIRCUITS: 24		
										MOUNTING: RECESSED		

(*) INDICATES LOCKING BREAKER

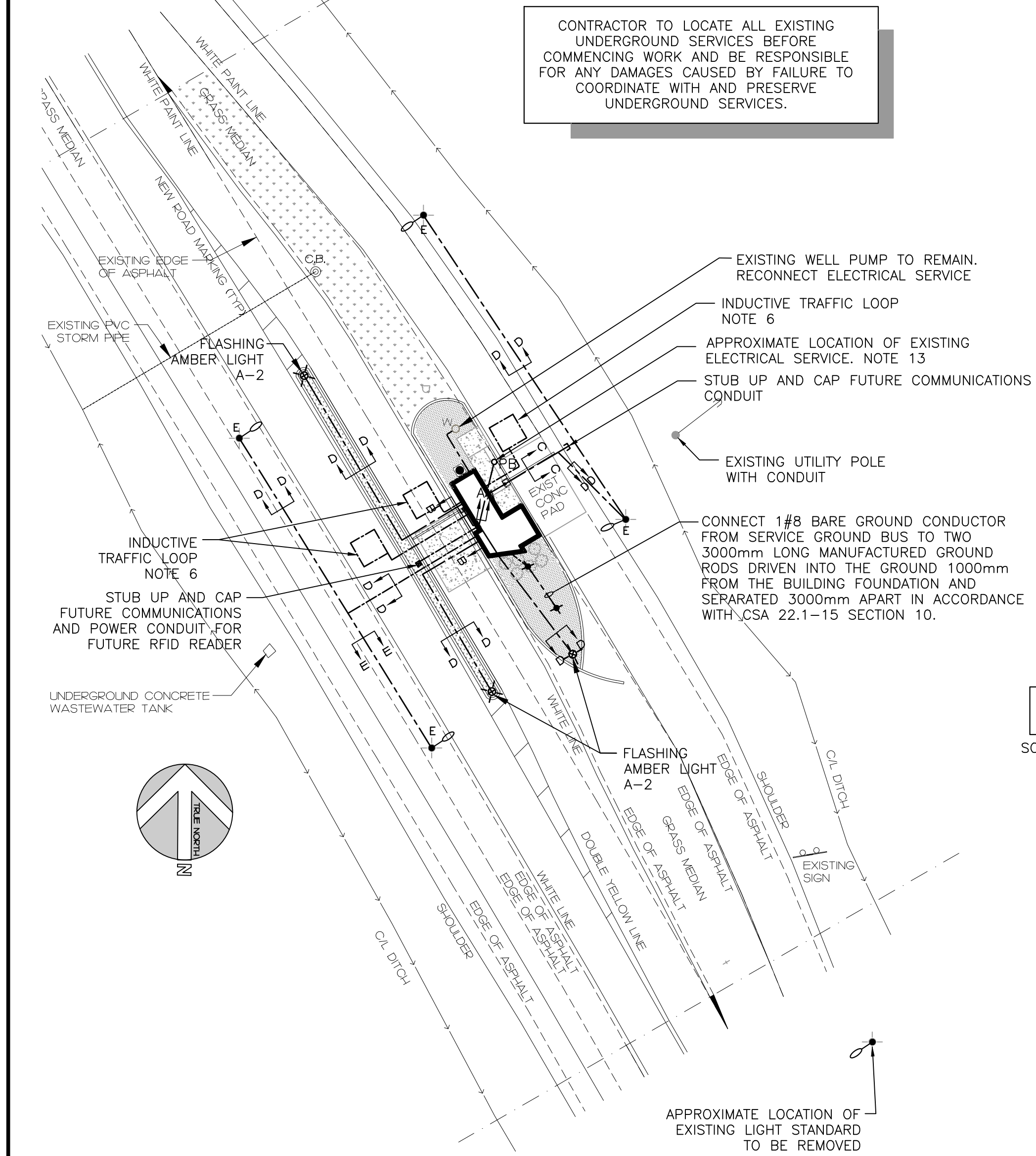


0	ISSUED FOR TENDER	12/08/2017
revisions		date

project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

drawing **NORTH RUSTICO KIOSK ELECTRICAL** dessin

designed A.D.J., P.ENG conçu
date October 18, 2017
drawn M.E.M., C.E.T. dessiné
date October 18, 2017
approved A.D.J., P.ENG approuvé
date
Tender Soumission
PCA Project Manager Administrateur de projets APC
project number no. du projet
171076
drawing no. no. du dessin
E2

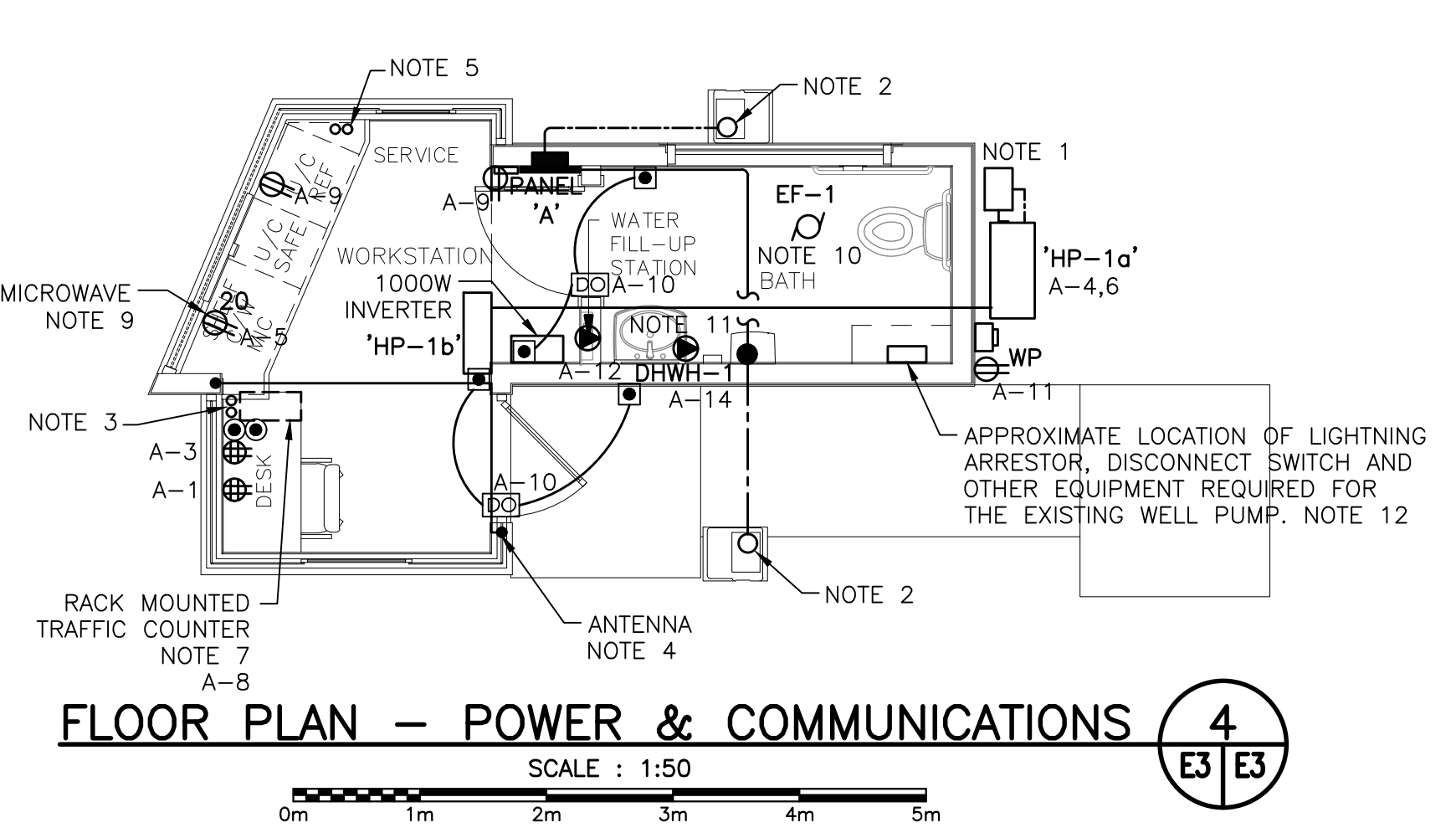


CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE UNDERGROUND SERVICES.

DEMAND CALCULATION

BASIC LOAD CALCULATION - REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)				
DESIGNATION	AREA (m ²)	TYPE OF OCCUPANCY	W/m ²	DEMAND %
OFFICE	12.5	OFFICE	50	100%
TOTAL BASIC DEMAND (W) 625				
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	5333	75%	4000	
TOTAL SPECIAL DEMAND (W) 4000				
TOTAL BASIC DEMAND (W) 625				
TOTAL SPECIAL DEMAND (W) 4000				
TOTAL ELECTRIC DEMAND (W) 4625				
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE 19A				
x 1.25% SPARE CAPACITY 24A				

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.

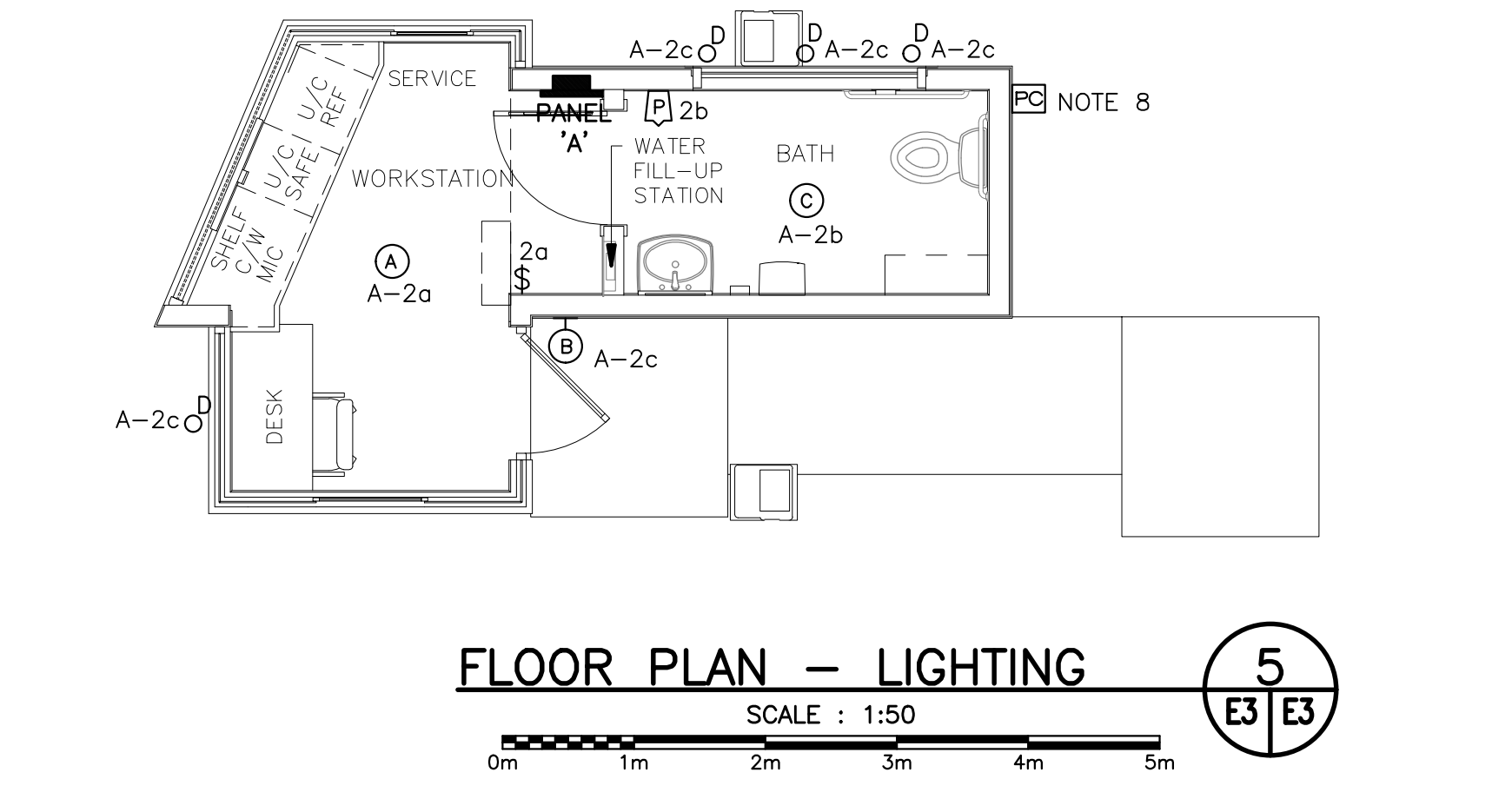
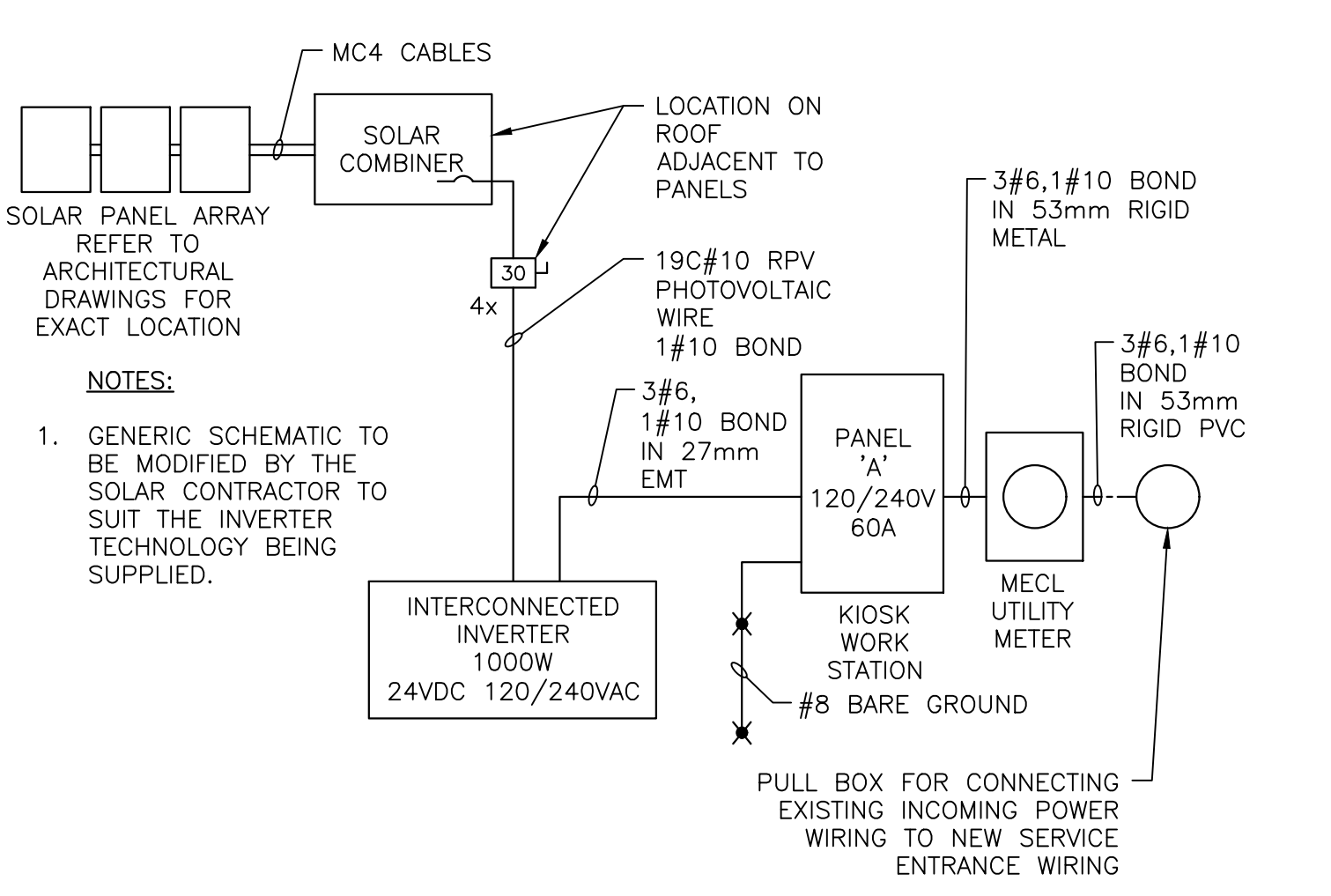


GENERAL LEGEND

- LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
- HEAVY LINEWEIGHT INDICATES NEW WORK
- UNDERGROUND WIRING
- WIRING UP
- WIRING DOWN
- CONDUIT STUB
- GROUND ROD

A-10g INDICATES CIRCUIT #10 IN PANEL 'A'
o - INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS

GENERAL SUB SCRIPTS
4x - INDICATES NEMA 4x ENCLOSURE



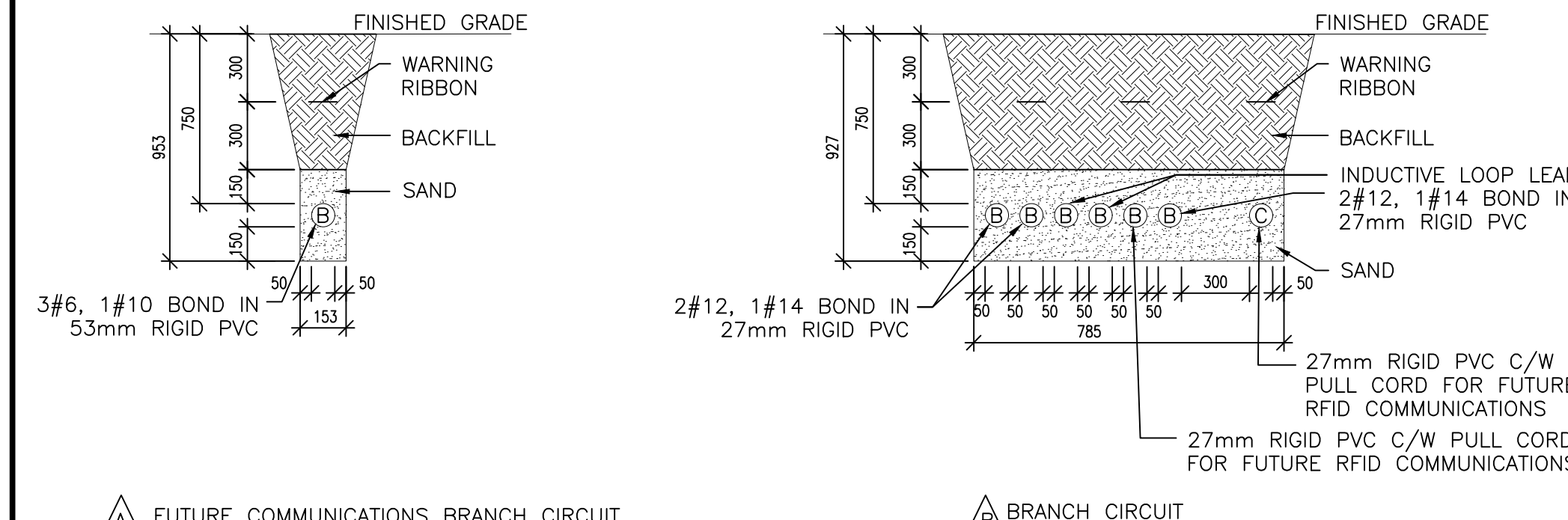
ELECTRICAL LEGEND

- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- RECEPTACLE SUB SCRIPTS:
20 - INDICATES CSA TYPE 5-20R
WP - INDICATES RECEPTACLE GFCCI C/W WEATHER PROOF WHILE IN-USE COVER
- ELECTRICAL PANEL, RECESSED MOUNTED
A' INDICATES PANEL DESIGNATION
- SINGLE PHASE MOTOR
- DISCONNECT SWITCH
- DIRECT CONNECTION
- PULL BOX
- UTILITY METER
- LUMINAIRE, SUSPENDED OR SURFACE MOUNTED
- INDICATES TYPE IN LUMINAIRE SCHEDULE
- LUMINAIRE, WALL MOUNTED
- INDICATES TYPE IN LUMINAIRE SCHEDULE
- LUMINAIRE, POLE MOUNTED
F - INDICATES TYPE IN LUMINAIRE SCHEDULE
- SINGLE POLE SWITCH
- PIR OCCUPANCY SENSOR WALL SWITCH, 120V
- PHOTOCELL
- POWER ASSISTED DOOR PUSH BUTTON
- POWER ASSISTED DOOR OPENER
- GATE ARM PUSH BUTTON

ELECTRICAL SITE PLAN 1
SCALE: 1:250

UTILITY / SOLAR SERVICE SCHEMATIC 3
SCALE: N.T.S.

FLOOR PLAN - LIGHTING 5
SCALE: 1:50

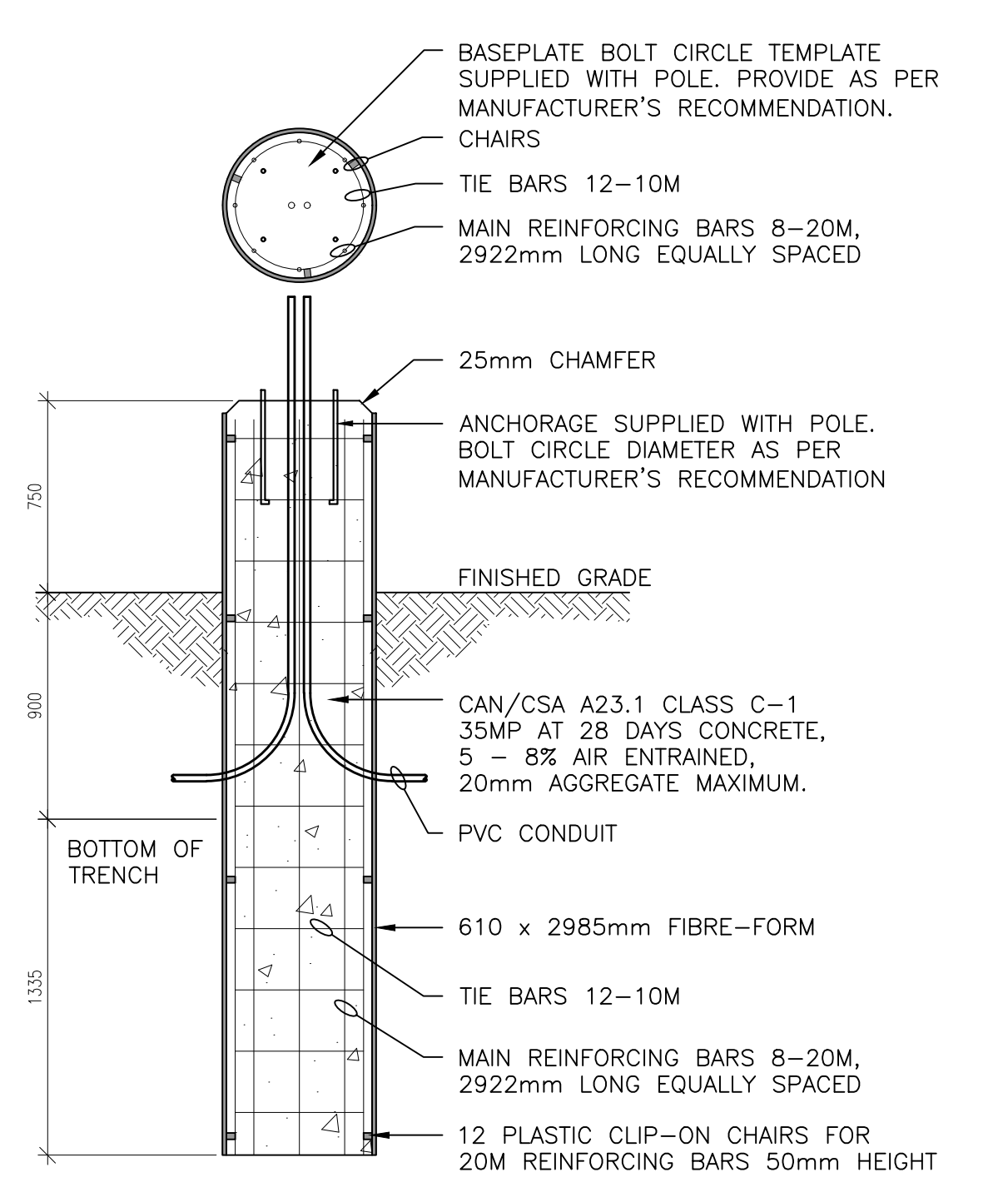


TRENCH DETAILS 2
SCALE: N.T.S.

- DETAIL NOTES:**
- B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE AS INDICATED.
 - C = COMMUNICATIONS CONDUIT 103mm PVC CONDUIT FOR UTILITY COMMUNICATIONS CABLES.
 - S = SPARE CONDUIT C/W PULL ROPE QUANTITY AND SIZE AS INDICATED.
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 - USE NEW SOIL FREE FROM LARGE ROCKS OR DEBRIS FOR BACKFILL.
 - IF SITE CONDITIONS PROHIBIT TRENCH AS PER THIS DRAWING, ADVISE CONSULTANT.
 - ALL CABLES TO BE LABELED WITH WEATHER PROOF TAGS INDICATING THE DESTINATION OF THE CONDUITS.

UTILITY / SOLAR SERVICE SCHEMATIC 3
SCALE: N.T.S.

DETAIL: SITE LIGHTING POLE HAND HOLE 7
SCALE: N.T.S.



DETAIL: SITE LIGHTING BASE 8
SCALE: N.T.S.

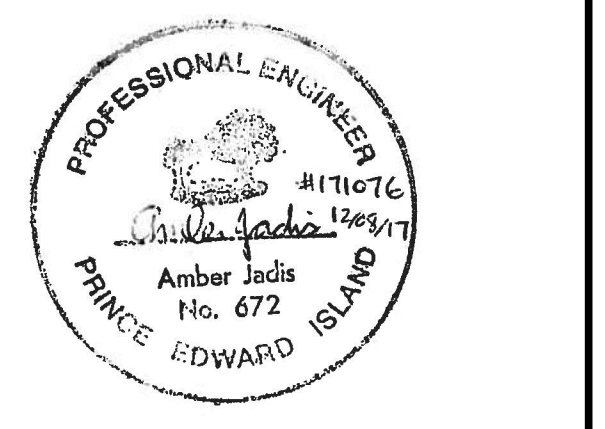
- NOTES:**
- HP-1 REQUIRES 230V, SINGLE PHASE, 2.6 KW POWER. INSTALL 2#12 TECK TO DISCONNECT SUPPLIED WITH OUTDOOR UNIT. WALL PATCHING AND SEALING TO BE COORDINATED WITH AND COMPLETED BY THE GENERAL CONTRACTOR. RUN EXTERIOR TECK CABLE ADJACENT TO LINES ON MECHANICAL LINE SUPPORTS.
 - STUB UP TWO 27mm RIGID PVC CONDUITS FOR GATE ARM. ONE CONDUIT TO CONTAIN 2#12, 1#14 RW90 AND TERMINATE AT PANEL 'A', OTHER CONDUIT TO CONTAIN 2#16 AND TERMINATE AT PUSH BUTTONS LOCATED ON THE DESK GATE ARM TO OPERATE WITH PUSH BUTTON TO OPEN RESET LOOP EMBEDDED IN THE PAVEMENT TO CLOSE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZE, LOCATION AND CONNECTION OF RESET LOOP.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP UNDER THE DESK AT LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE TRAFFIC COUNTING SYSTEM AND RECEPTACLES A-1 AND A-3 SHALL FOLLOW THE SAME ROUTE.
 - ANTENNA AND CABLE SUPPLIED BY PARKS CANADA AND INSTALLED BY ELECTRICAL CONTRACTOR. ANTENNA CABLE TO BE RUN IN 16mm EMT CONDUIT IN CEILING SPACE AND WITHIN THE WALL, DOWN TO THE UNDERSIDE OF THE DESK. LEAVE 1.5m SLACK CABLE COILED AND SECURED TO THE UNDERSIDE OFF THE DESK.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE FRIDGE AND MICROWAVE SHALL FOLLOW THE SAME ROUTE.
 - PREFORMED, 1.8m x 1.8m, HIGH TEMPERATURE RATED INDUCTIVE LOOP FOR PERMANENT INSTALLATION UNDER ASPHALT C/W 15 OR 30m LEAD WIRE AS REQUIRED. INTERNATIONAL ROAD DYNAMICS INC. IS AN APPROVED MANUFACTURER. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - RACK MOUNTED TRAFFIC RECORDING SYSTEM. CAPABLE OF INDEPENDENTLY MONITORING THREE LANES OF TRAFFIC AND STORING AT LEAST ONE YEAR OF TRAFFIC STATISTICS. TRAFFIC RECORDING SYSTEM TO BE HARDWIRED TO A DEDICATED 15A/1P CIRCUIT A-8 AND PROVIDE A 1.8m LONG USB 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. PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #K4251 OR APPROVED EQUAL.
 - CONFIRM MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
 - NEW 120V, SINGLE PHASE, 0.27A EXHAUST FAN. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-2 THROUGH WALL MOUNTED OCCUPANCY SENSOR.
 - NEW 120V, SINGLE PHASE, 1.5KW DHWH-1. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-14.
 - PROVIDE 2#12, 1#14 WIRING IN 16mmC FROM CIRCUIT A-13.15 TO WELL PUMP AND ASSOCIATED EQUIPMENT. REFER TO DETAIL 1/M1/M1 FOR ADDITIONAL INFORMATION. CONFIRM EXACT LOCATION OF EQUIPMENT BEFORE STARTING ELECTRICAL ROUGH-IN.
 - PULL BACK AND RECONNECT EXISTING INCOMING POWER CABLING FROM OLD KIOSK LOCATION TO NEW KIOSK.

PANEL 'A'

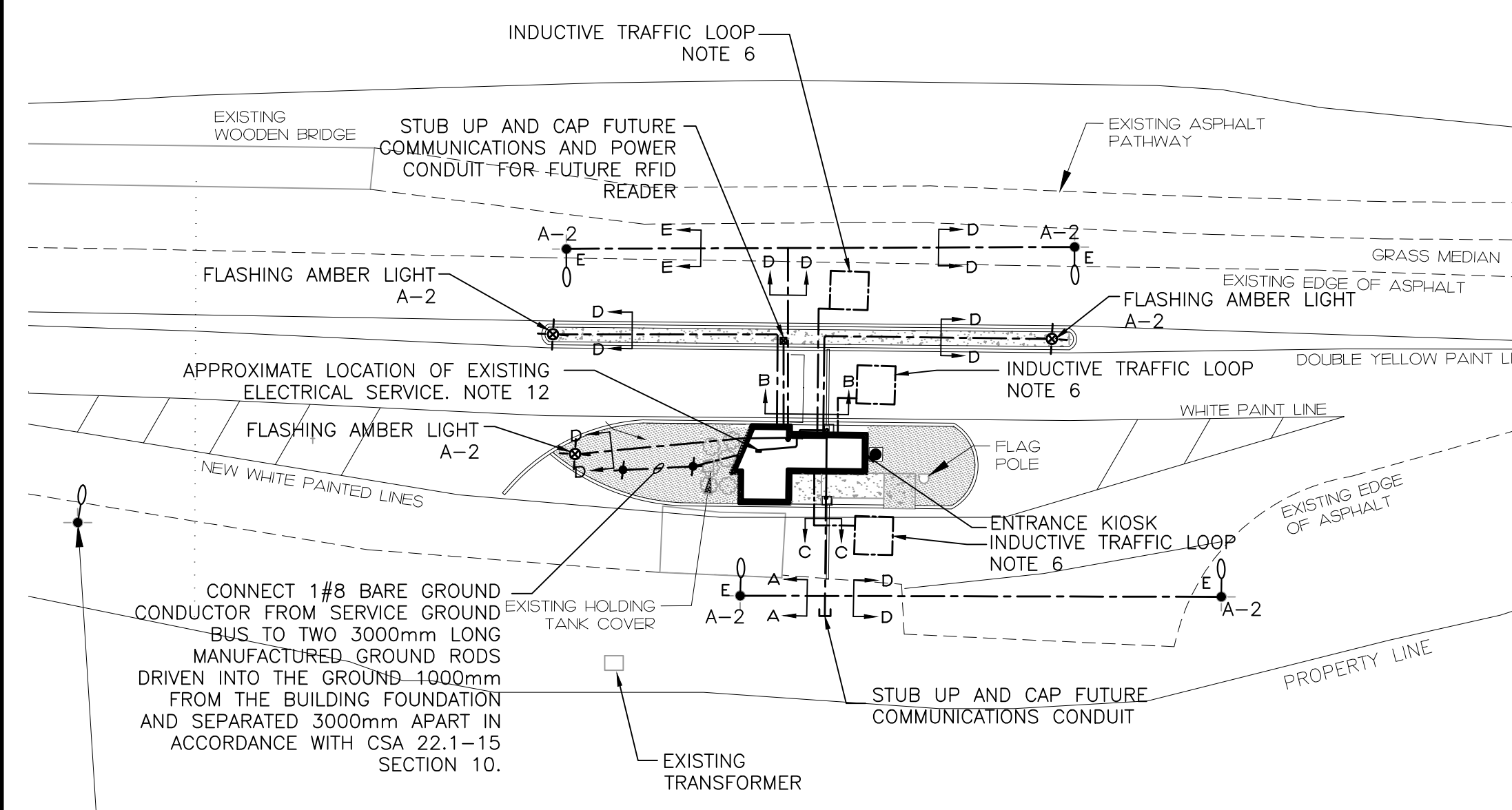
DESIGNATION	LOAD	P	BKR	CIRCUIT	BKR	P	LOAD	DESIGNATION		
RECEPTACLES - DESK	240	1	15	A	2	15	1	363	LIGHTING & EF-1	
RECEPTACLES - DESK	240	1	15	3	B	4	20	1300	HP-1a	
MICROWAVE	1000	1	20	5	A	6	2	1300		
GATE ARM	864	1	20	7	B	8	15	1	120	TRAFFIC COUNTER
RECEPTACLES	500	1	15	9	A	10	15	1	100	DOOR OPERATOR
EXTERIOR RECEPTACLES	120	1	15	11	B	12	15	1	100	WATER FILLING
WELL PUMP	600	2	15	13	A	14	20	1	1500	DHWH-1
										SPARE
										SPARE
										SPARE
PHASE LOADS:	2340	1824					3263	1520		
TOTAL PHASE LOADS:	5603	3344								
TOTAL LOADS:	8947									
CURRENT AT 240V/1PH:	37									

(*) INDICATES LOCKING BREAKER

MAINS: 60A MB, TOP FED
NUMBER OF CIRCUITS: 24
MOUNTING: RECESSED



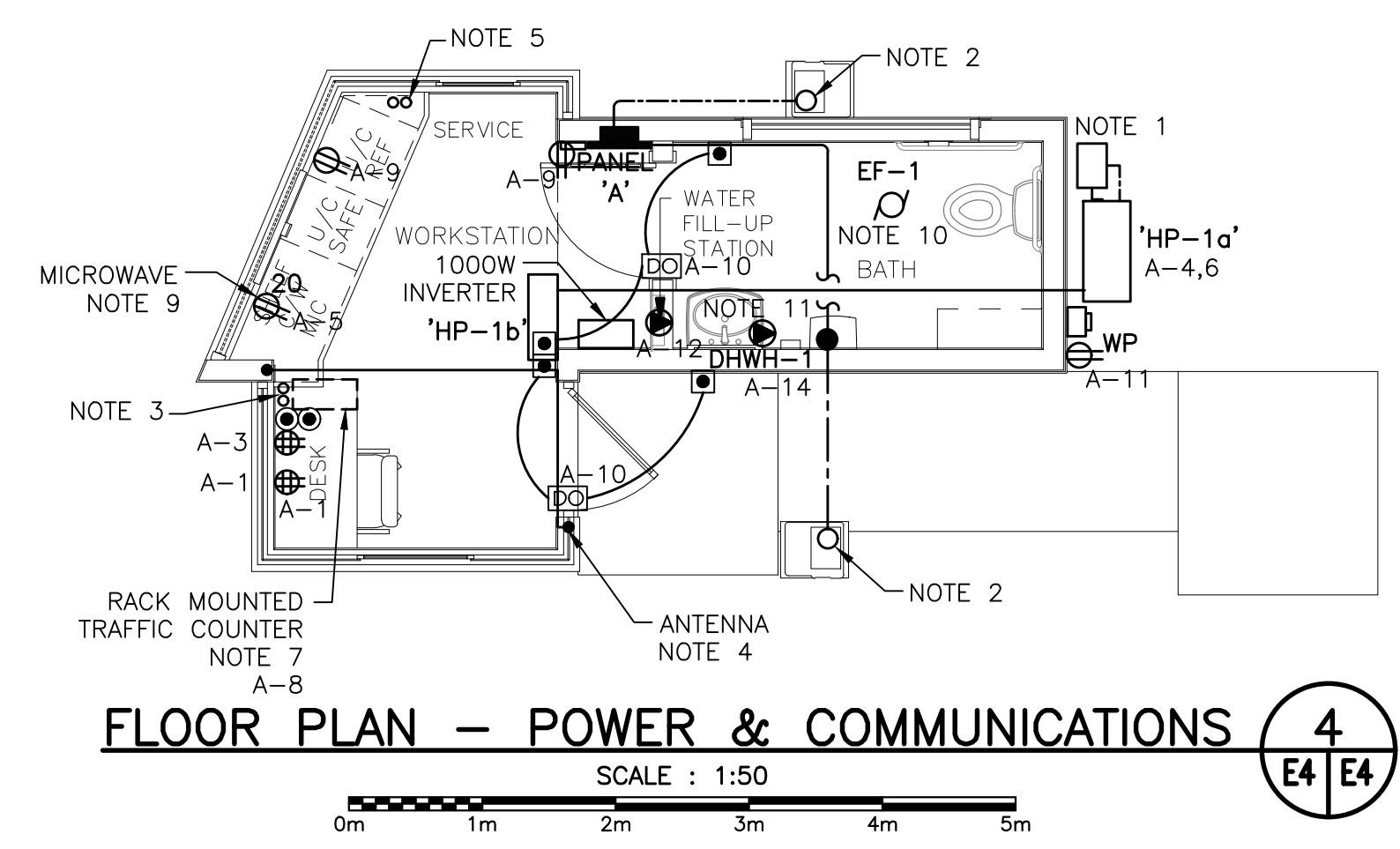
ISSUED FOR TENDER	12/08/2017
revisions	date
project	project
PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1	
drawing	design
DALVAY KIOSK ELECTRICAL	
designed A.D.J., P.ENG	congr
date October 18, 2017	
drawn M.E.M., C.E.T.	dessin
date October 18, 2017	
approved A.D.J., P.ENG	approve
date	
Tender	Soumission
PCA Project Manager	Administrateur de projets APC
project number	no. du projet
171076	
drawing no.	no. du dessin
E3	



ELECTRICAL SITE PLAN
 SCALE: 1:250
 0m 5m 10m 15m 20m 25m

DEMAND CALCULATION				
BASIC LOAD CALCULATION - REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)				
REFERENCING CEC 22.1-15 TABLE 14				
DESIGNATION	AREA (m ²)	TYPE OF OCCUPANCY	W/m ²	DEMAND %
OFFICE	12.5	OFFICE	50	100%
				TOTAL DEMAND (W)
				625
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	4133	75%	3099	
				TOTAL BASIC DEMAND (W)
				625
				TOTAL SPECIAL DEMAND (W)
				3099
				TOTAL ELECTRIC DEMAND (W)
				3725
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE				
19A				
x 1.25% SPARE CAPACITY				
24A				

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 & COMMUNICATIONS
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m

GENERAL LEGEND

- LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
- HEAVY LINEWEIGHT INDICATES NEW WORK
- UNDERGROUND WIRING
- WIRING UP
- WIRING DOWN
- CONDUIT STUB
- GROUND ROD

A-10a INDICATES CIRCUIT #10 IN PANEL 'A'
 α INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS

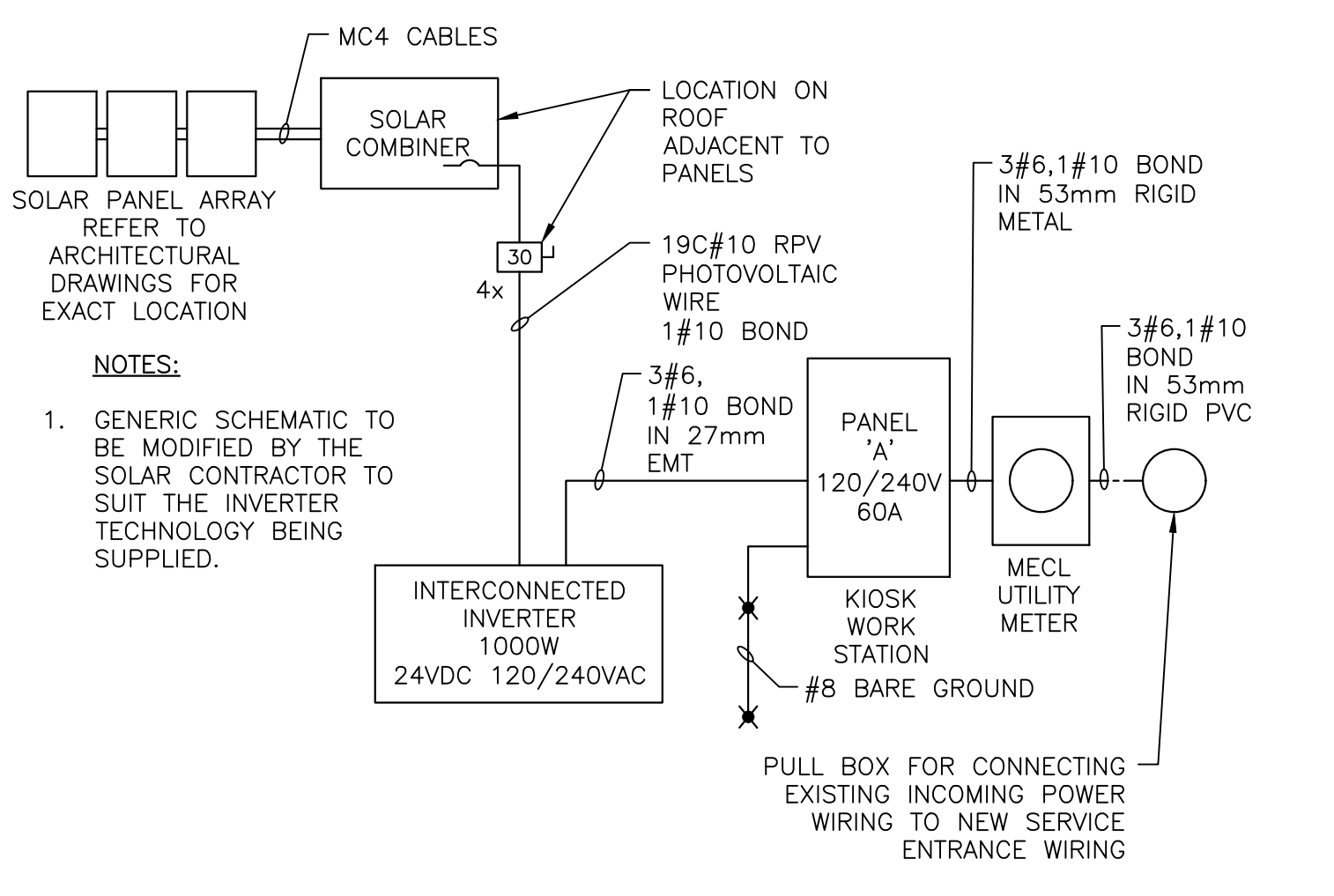
GENERAL SUB SCRIPTS

4x - INDICATES NEMA 4x ENCLOSURE

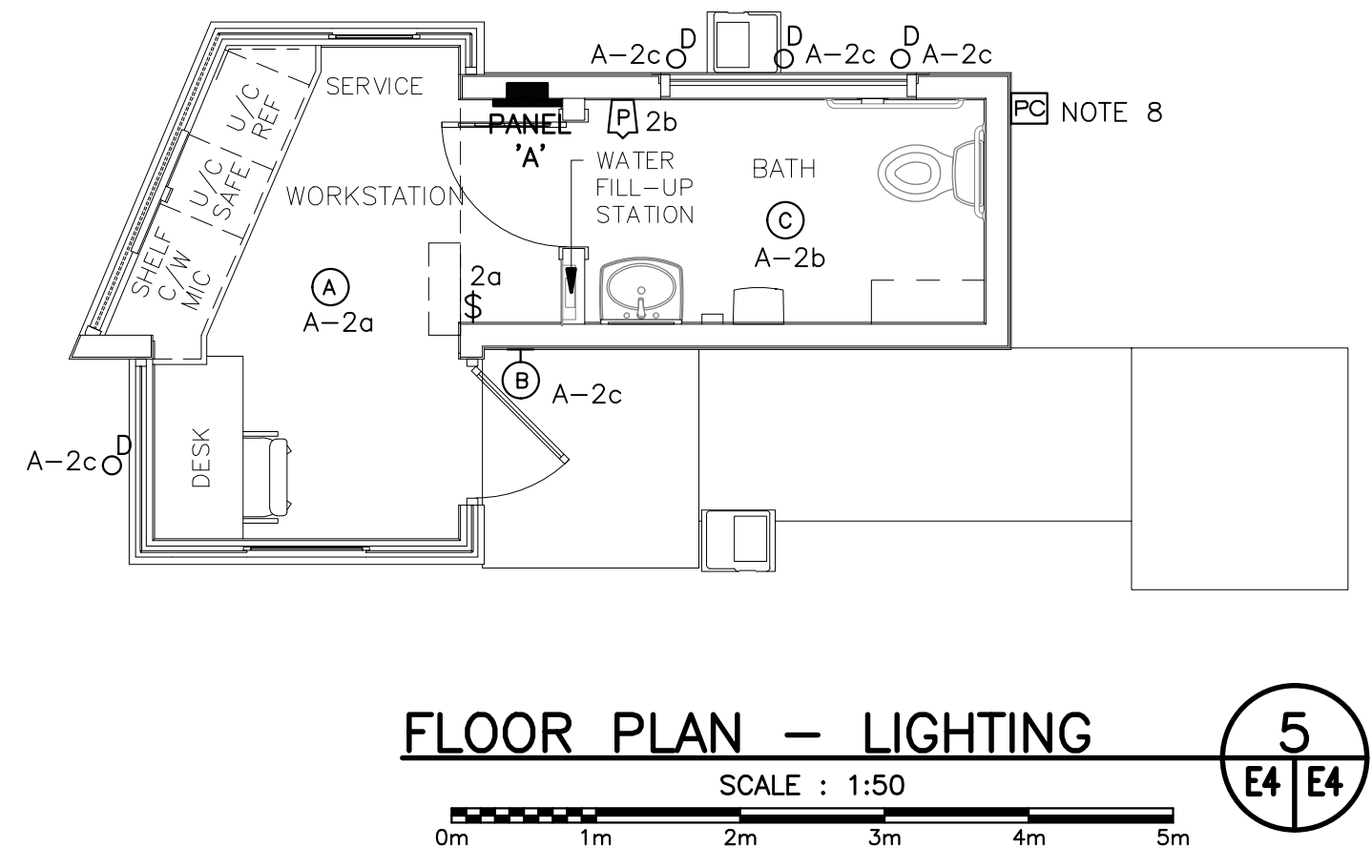
ELECTRICAL LEGEND

- ⊕ DUPLEX RECEPTACLE
- ⊕ QUAD RECEPTACLE
- ⊕ RECEPTACLE SUB SCRIPTS:
- 20 - INDICATES CSA TYPE 5-20R
- WP - INDICATES RECEPTACLE GFCI C/W WEATHER PROOF WHILE IN USE COVER
- ⊕ 'A' ELECTRICAL PANEL, RECESSED MOUNTED 'A' INDICATES PANEL DESIGNATION
- SINGLE PHASE MOTOR
- ⊕ DISCONNECT SWITCH
- DIRECT CONNECTION
- PULL BOX
- ⊕ UTILITY METER
- ⊕ LUMINAIRE, SUSPENDED OR SURFACE MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
- ⊕ LUMINAIRE, WALL MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
- ⊕ LUMINAIRE, POLE MOUNTED F - INDICATES TYPE IN LUMINAIRE SCHEDULE
- ⊕ SINGLE POLE SWITCH
- ⊕ PIR OCCUPANCY SENSOR WALL SWITCH, 120V
- ⊕ PHOTOCELL
- ⊕ POWER ASSISTED DOOR PUSH BUTTON
- ⊕ POWER ASSISTED DOOR OPENER
- ⊕ GATE ARM PUSH BUTTON

CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE UNDERGROUND SERVICES.

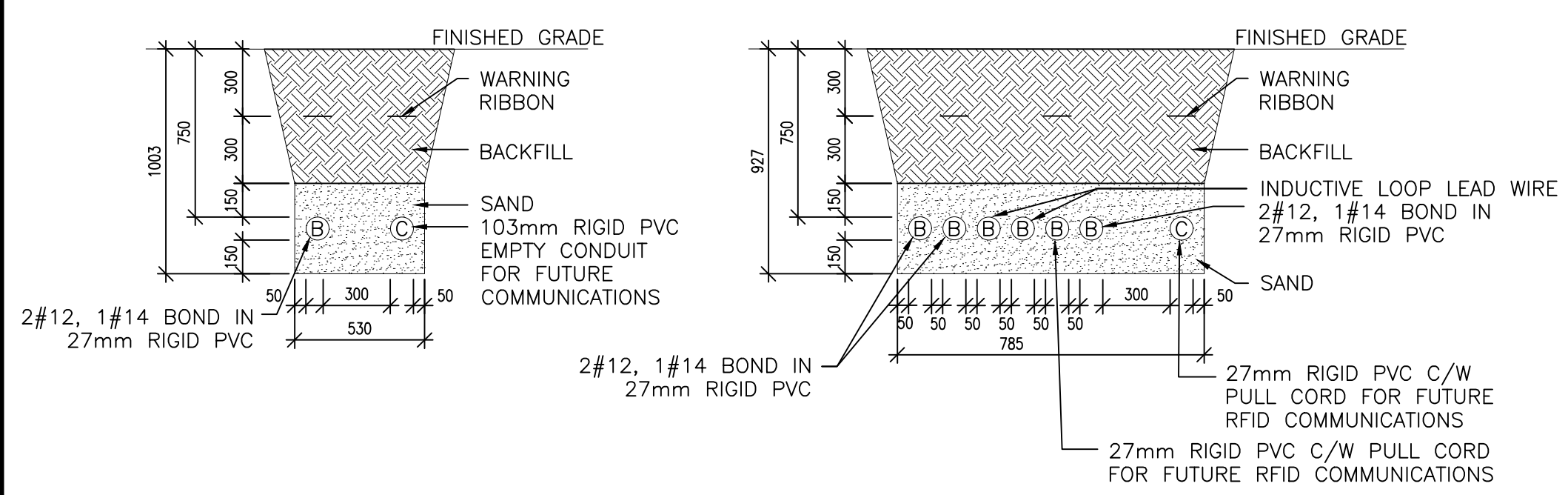


UTILITY / SOLAR SERVICE SCHEMATIC
 SCALE: N.T.S.



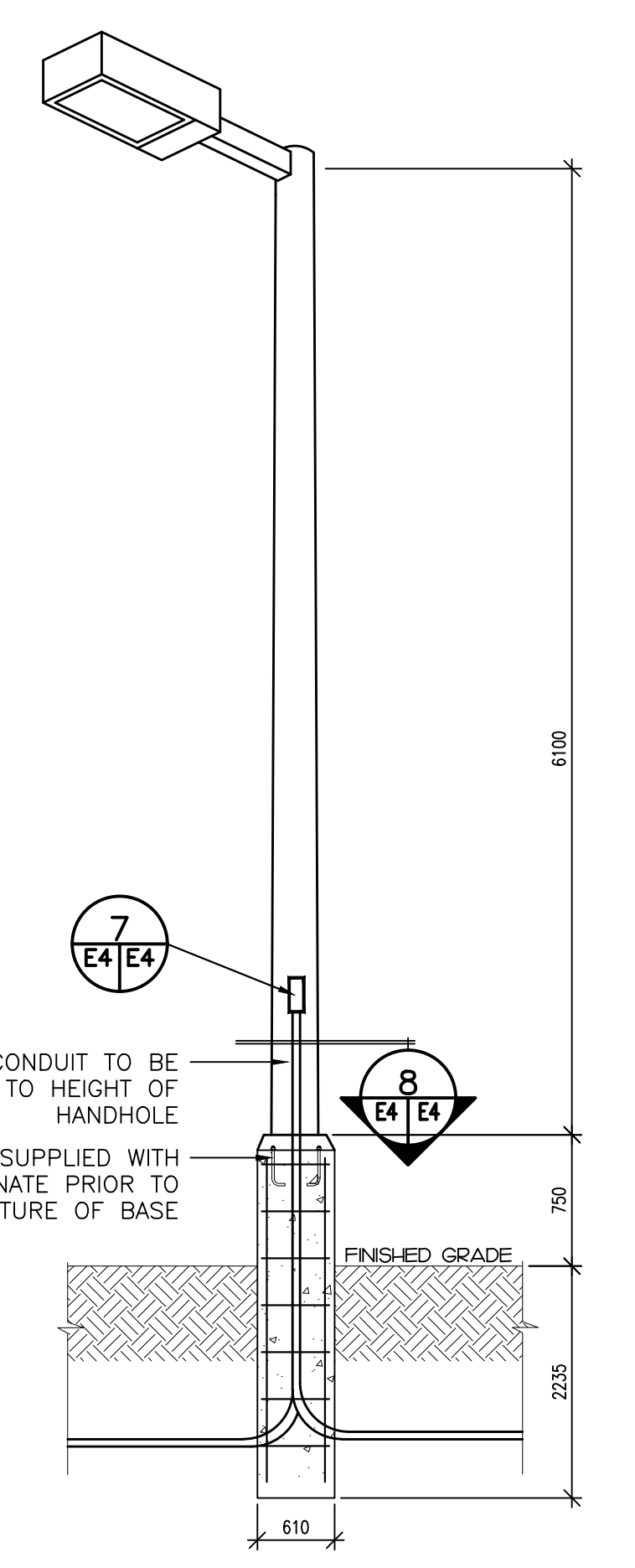
FLOOR PLAN - LIGHTING
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m

- NOTES:**
- HP-1 REQUIRES 230V, SINGLE PHASE, 2.6 KW POWER. INSTALL 2#12 TECK TO DISCONNECT SUPPLIED WITH OUTDOOR UNIT. WALL PATCHING AND SEALING TO BE COORDINATED WITH AND COMPLETED BY THE GENERAL CONTRACTOR. RUN EXTERIOR TECK CABLE ADJACENT TO LINES ON MECHANICAL LINE SUPPORTS.
 - STUB UP TWO 27mm RIGID PVC CONDUITS FOR GATE ARM. ONE CONDUIT TO CONTAIN 2c#12, 1#14 RW90 AND TERMINATE AT PANEL 'A', OTHER CONDUIT TO CONTAIN 2#12 AND TERMINATE AT PUSH BUTTONS LOCATED ON THE DESK. GATE ARM TO OPERATE WITH PUSH BUTTON TO OPEN RESET LOOP EMBEDDED IN THE PAVEMENT TO CLOSE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZE, LOCATION AND CONNECTION OF RESET LOOP.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP UNDER THE DESK AT LOCATION SHOWN. ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE TRAFFIC COUNTING SYSTEM AND RECEPTACLES A-1 AND A-3 SHALL FOLLOW THE SAME ROUTE.
 - ANTENNA AND CABLE SUPPLIED BY PARKS CANADA AND INSTALLED BY ELECTRICAL CONTRACTOR. ANTENNA CABLE TO BE RUN IN 16mm EMT CONDUIT IN CEILING SPACE AND WITHIN THE WALL, DOWN TO THE UNDERSIDE OF THE DESK. LEAVE 1.5m SLACK CABLE COILED AND SECURED TO THE UNDERSIDE OF THE DESK.
 - PROVIDE TWO EMPTY 27mm CONDUITS C/W PULL CORDS, FROM PANEL A, EMBEDDED IN CONCRETE FLOOR AND STUBBED UP IN VOID MILLWORK SPACE AT THE LOCATION SHOWN, ADDITIONAL CONDUITS AND WIRING PROVIDING POWER FOR THE FRIDGE AND MICROWAVE SHALL FOLLOW THE SAME ROUTE.
 - PREFORMED, 1.8m x 1.8m, HIGH TEMPERATURE RATED INDUCTIVE LOOP FOR PERMANENT INSTALLATION UNDER ASPHALT C/W 15 OR 30mm LEAD WIRE AS REQUIRED. INTERNATIONAL ROAD DYNAMICS INC. IS AN APPROVED MANUFACTURER. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - RACK MOUNTED TRAFFIC RECORDING SYSTEM CAPABLE OF INDEPENDENTLY MONITORING THREE LANES OF TRAFFIC AND STORING AT LEAST ONE YEAR OF TRAFFIC STATISTICS. TRAFFIC RECORDING SYSTEM TO BE HARDWIRED TO A DEDICATED 15A/1P CIRCUIT A-8 AND PROVIDE A 1.8m LONG USB 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. PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #K4251 OR APPROVED EQUAL.
 - CONFIRM MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
 - NEW 120V, SINGLE PHASE, 0.27A EXHAUST FAN. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-2 THROUGH WALL MOUNTED OCCUPANCY SENSOR.
 - NEW 120V, SINGLE PHASE, 1.5KW DHWH-1. WIRE WITH 2#12, 1#14 IN 16mmC TO CIRCUIT A-14.
 - PULL BACK AND RECONNECT EXISTING INCOMING POWER CABLING FROM OLD KIOSK LOCATION TO NEW KIOSK.

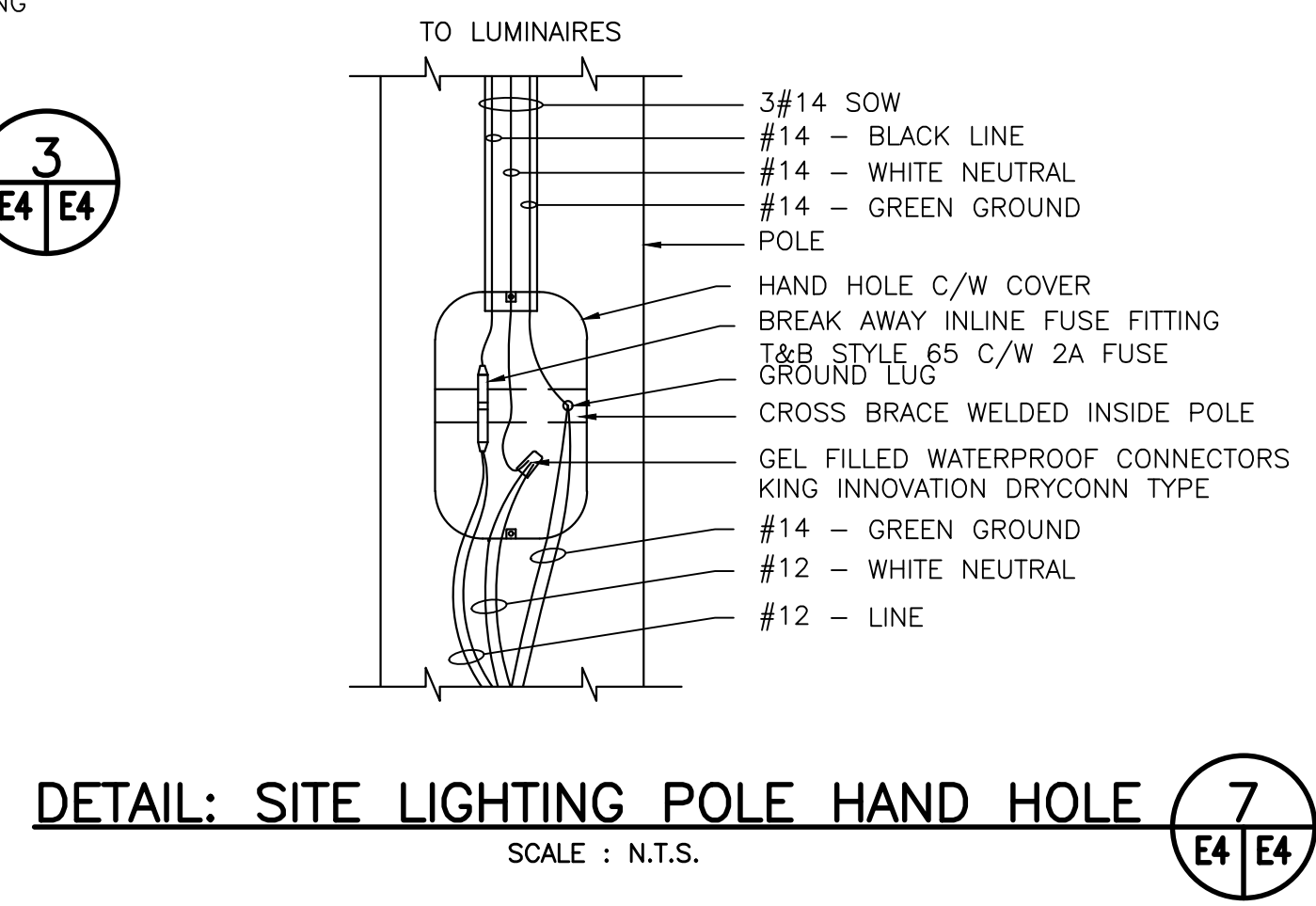


TRENCH DETAILS
 SCALE: N.T.S.

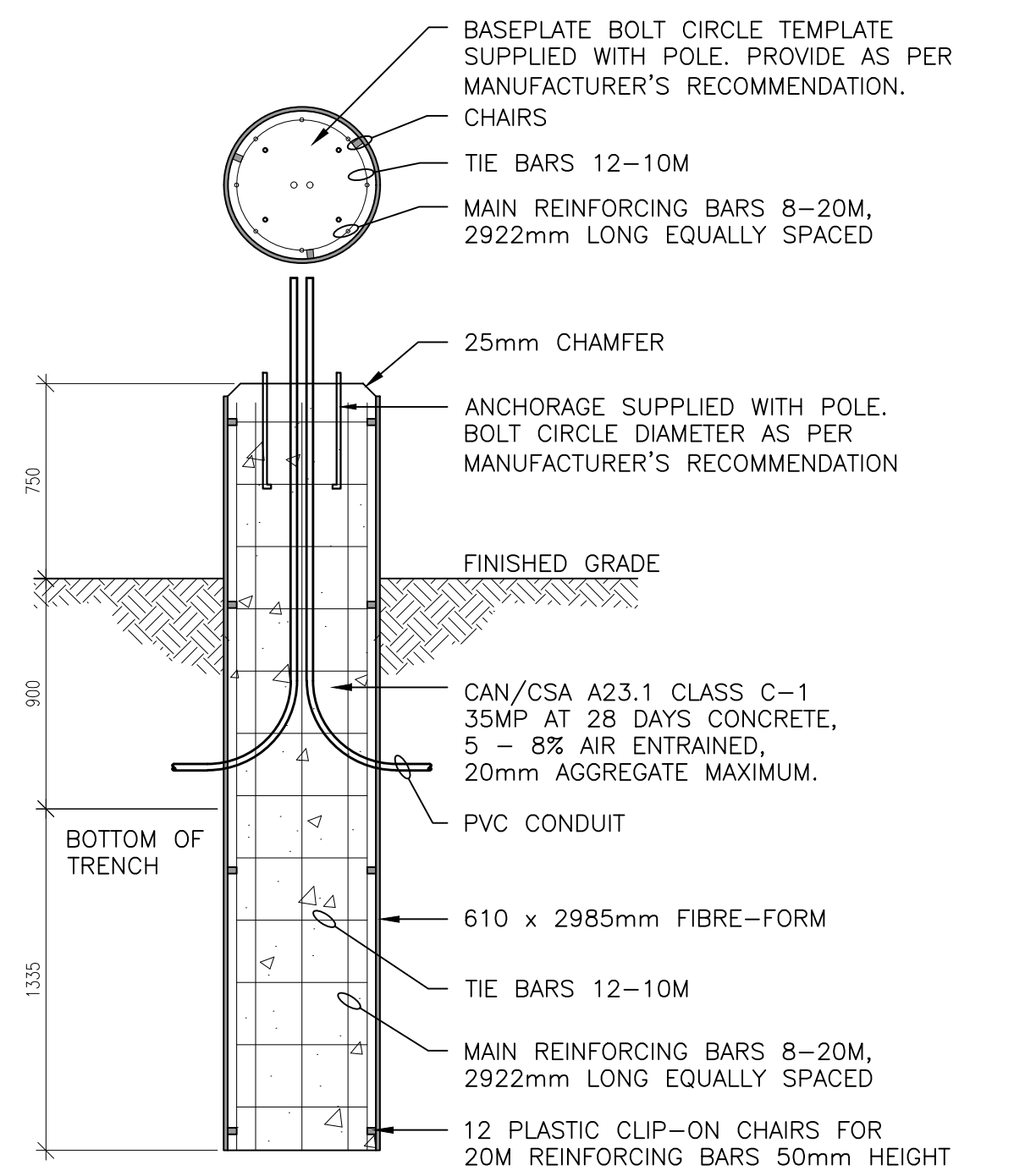
- DETAIL NOTES:**
- B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE AS INDICATED.
 - C = COMMUNICATION CONDUIT 103mm PVC CONDUIT FOR UTILITY COMMUNICATIONS CABLES.
 - S = SPARE CONDUIT C/W PULL ROPE QUANTITY AND SIZE AS INDICATED.
 - BACKFILLING OF TRENCH IN LAYERS NOT EXCEEDING 300mm (MECHANICALLY TAMPED).
 - USE NEW SOIL FREE FROM LARGE ROCKS OR DEBRIS FOR BACKFILL.
 - IF SITE CONDITIONS PROHIBIT TRENCH AS PER THIS DRAWING, ADVISE CONSULTANT.
 - ALL CABLES TO BE LABELED WITH WEATHER PROOF TAGS INDICATING THE DESTINATION OF THE CONDUITS.



DETAIL: LIGHTING STANDARD (TYPICAL)
 SCALE: N.T.S.



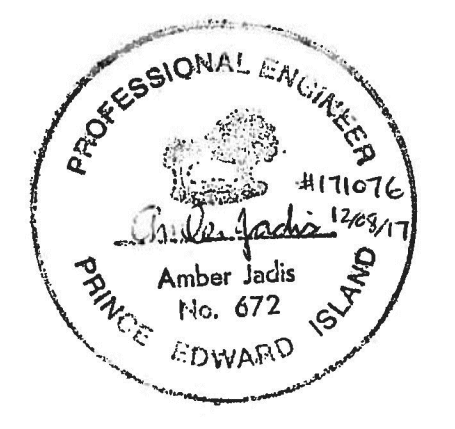
DETAIL: SITE LIGHTING POLE HAND HOLE
 SCALE: N.T.S.



DETAIL: SITE LIGHTING BASE
 SCALE: N.T.S.

DESIGNATION	LOAD		P	BKR	CIRCUIT	BKR	P	LOAD		DESIGNATION
	A	B						A	B	
RECEPTACLES - DESK	240		1	15	1	A	2	15	363	LIGHTING & EF-1
RECEPTACLES - DESK		240	1	15	3	B	4		1300	
MICROWAVE	1000		1	20	5	A	6	20	1300	HP-1a
GATE ARM		864	1	20	7	B	8	15	120	TRAFFIC COUNTER
RECEPTACLES	500		1	15	9	A	10	15	100	DOOR OPERATOR
EXTERIOR RECEPTACLES	120		1	15	11	B	12	15	100	WATER FILLING
			1	13	A	14	20	1	1500	DHWH-1
			1	15	B	16	15	1		SPARE
			1	17	A	18	15	1		SPARE
			1	19	B	20	15	1		SPARE
			1	21	A	22	1			
			1	23	B	24	1			
PHASE LOADS:	1740	1224							3263 1520	
TOTAL PHASE LOADS:	5003	2744							SUPPLY: 120/240V, 1φ, 3w	
TOTAL LOADS:	7747								MAINS: 60A MB, TOP FED	
									NUMBER OF CIRCUITS: 24	
									MOUNTING: RECESSED	
CURRENT AT 240V/1PH:	32									

(* INDICATES LOCKING BREAKER)



0	ISSUED FOR TENDER	12/08/2017
revisions		date

project **PARKS CANADA AGENCY PARKS CANADA KIOSKS PHASE 1** project

drawing **BAYSHORE KIOSK ELECTRICAL** dessin

designed A.D.J., P.ENG conçu
 date October 18, 2017
 drawn M.E.M., C.E.T. dessiné
 date October 18, 2017
 approved A.D.J., P.ENG approuvé
 date
 Tender Soumission

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

171076

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E4