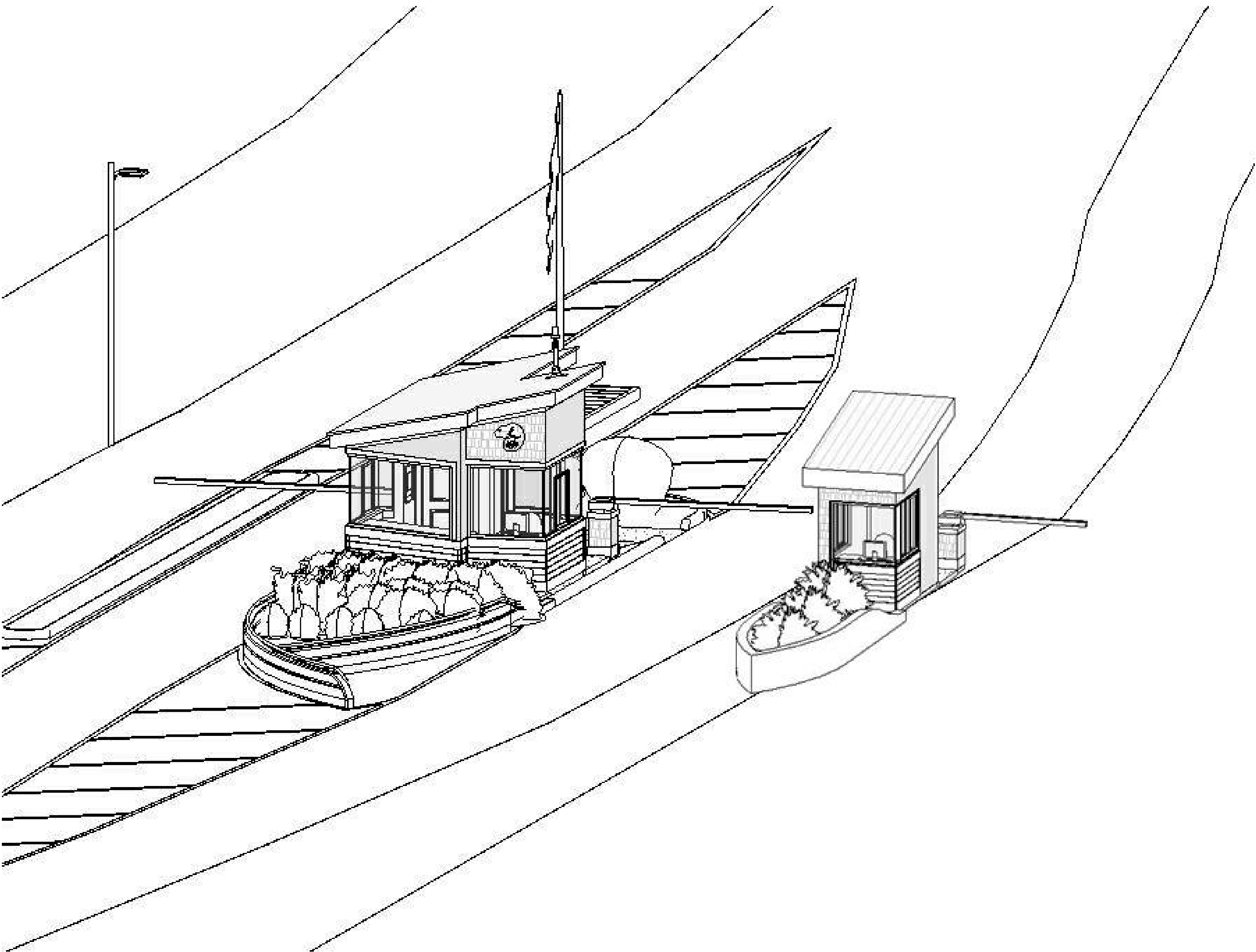


# PARKS CANADA AGENCY

## PARKS CANADA ENTRANCES & KIOSKS BRACKLEY BEACH



### 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

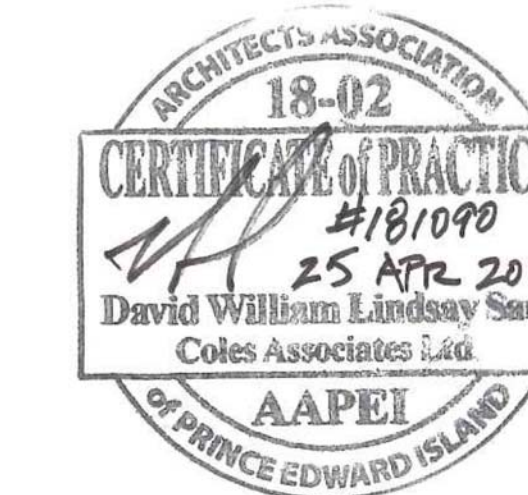
- C1 EXISTING SITE PLAN & NOTES
- C2 NEW SITE PLAN & NOTES
- C3 SITE DETAILS & NOTES
- C4 SITE DETAILS & NOTES

### 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

revisions date

drawing projet

PARKS CANADA  
AGENCY ENTRANCES  
& KIOSKS BRACKLEY  
BEACH, PE

drawing dessin

COVER PAGE

designed J.A. conçu

date APRIL 2019

drawn J.A. dessiné

date APRIL 2019

approved W.S. approuvé

date APRIL 2019

Tender Soumission

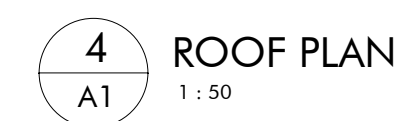
PWGSC Project Manager Administrateur de projets TPSCG

project number no. du projet

181090

drawing no no. du dessin

A0



WALL SCHEDULE		
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 400mm O.C. .8-20 BATT INSULATION .10mil POLY VAPOUR .16mm GYPSUM WALL BOARD PAINTED	

ROOF TYPE SCHEDULE		
TYPE	DESCRIPTION	REMARKS
R1	<p>100-4 COLOR - REGENT GRAY #56082</p> <p>-PEEL AND STICK NON-PERMEABLE MEMBRANE</p> <p>-19mm PLYWOOD SHEATHING</p> <p>-38mm x 184mm WOOD RAFTER SPACED AT 400mm O.C.</p> <p>-R-20 BATT INSULATION</p> <p>-10mm POLYVAPOUR BARRIER</p> <p>-19mm x 64mm WOOD STRAPPING</p> <p>-16mm GYPSUM WALL BOARD PAINTED</p>	

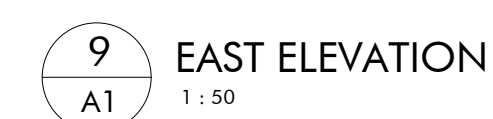
FLOOR TYPE SCHEDULE		
TYPE	DESCRIPTION	REMARKS
F1	CERAMIC TILE FLOOR 100mm REINFORCED CONCRETE SLAB 10mil POLY VAPOUR BARRIER (TAPED AND SEALED) 100mm CLASS GRAVEL COMPACTED TO 100% SPMD APPROVED UNDISTRIBUTED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	

FLOOR PLAN NOTES:

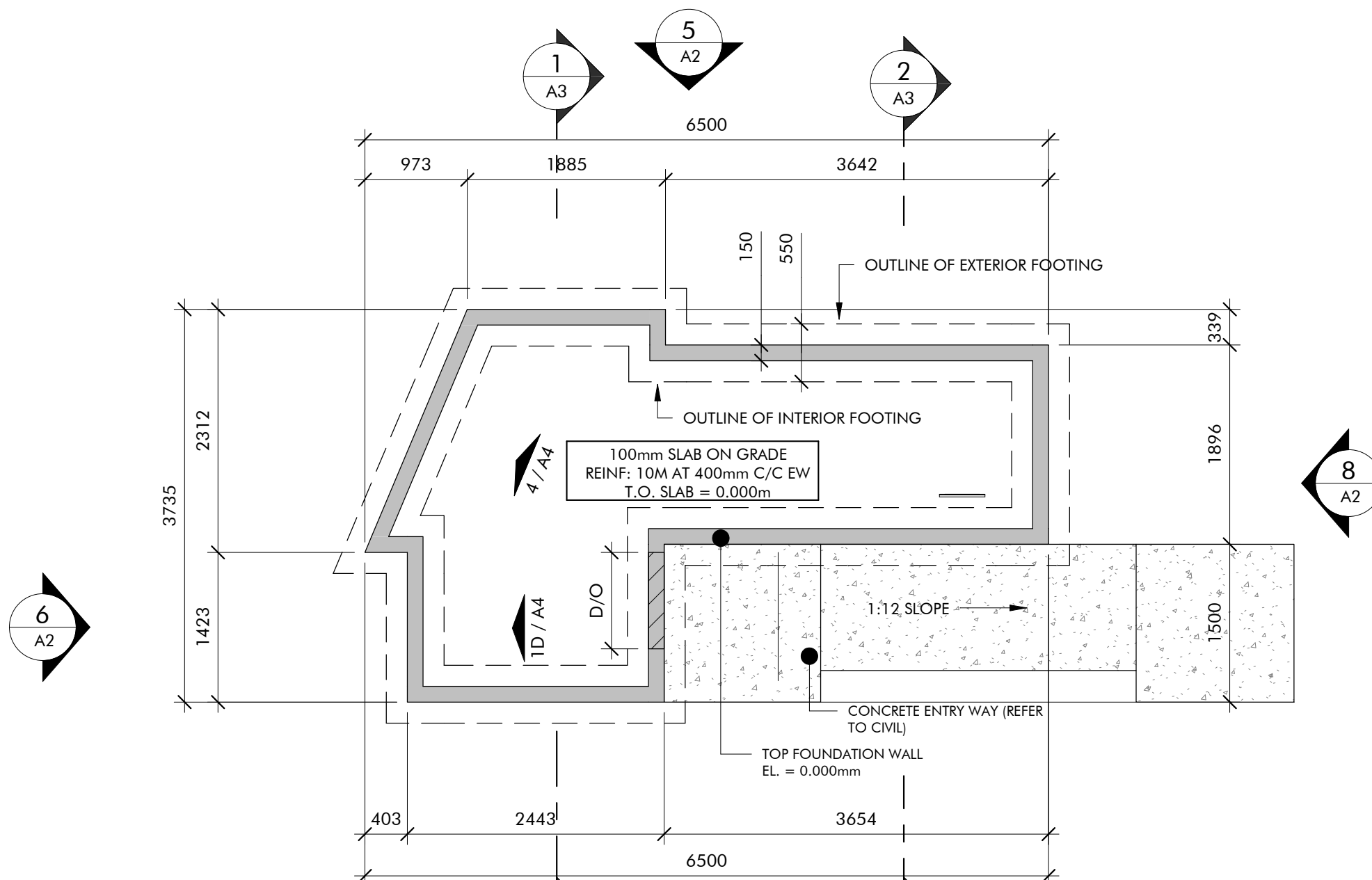
- 1 ALL PENETRATIONS IN RATED PARTITIONS AND/OR FLOOR ASSEMBLIES FOR PLUMBING, DUCTING OR ELECTRICAL RUNS ARE TO BE SEALED. FIRE STOP IN ACCORDANCE WITH WALL AND/OR FLOOR TYPES. SUBMIT ULC DETAILS AND MATERIALS DURING SHOP DRAWING PROCESS FOR REVIEW PRIOR TO INSTALLATION.
- 2 PROVIDE 5/8" WATERPROOF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

DOOR 102.1 HARDWARE SCHEDULE					
3	EA	HINGE	5B81 114X102MM NRP	630	IVE
1	EA	STERRORRM LOCK	L9080GD 17A	626	SCB
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP-LONG	689	LCN
1	EA	MTG PLT	4040XP-18G	689	LCN
1	SET	WEATHERSTRIP	W-14 x door width x [2] door height	628	KNC
1	EA	DOOR SCHEDULE	W-245 x by door width	628	KNC
1	EA	THRESHOLD	CT - 39 x by door width	627	KNC

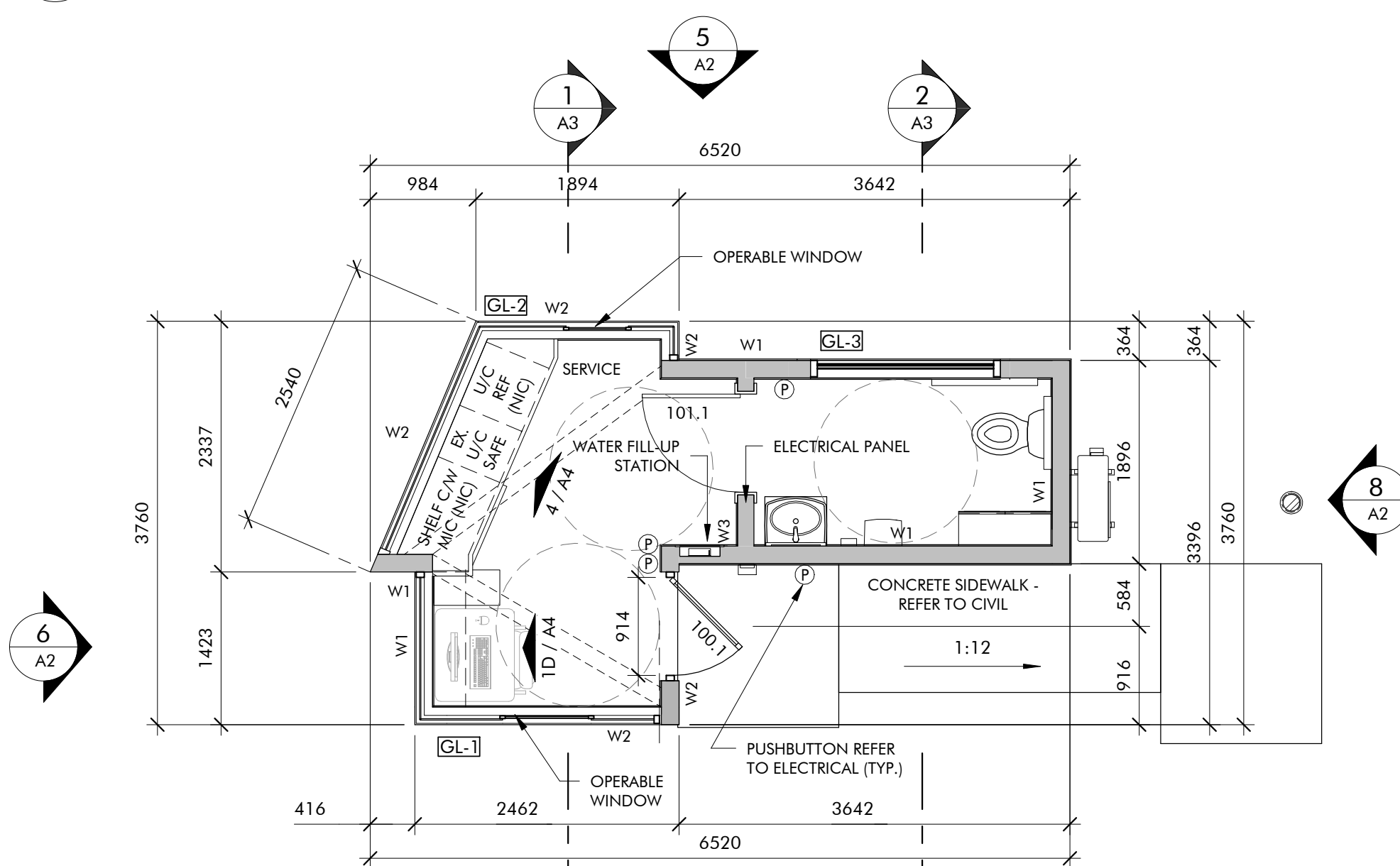
DOOR AND FRAME SCHEDULE	
<b>DOOR</b>	
TYPE	D1
WIDTH (mm)	813
HEIGHT (mm)	2030
THICKNESS (mm)	51
MATERIAL	FIBERGLASS
FINISH	PAINT
<b>FRAME</b>	
MATERIAL	STEEL
FINISH	PAINT
<b>COMMENTS</b>	



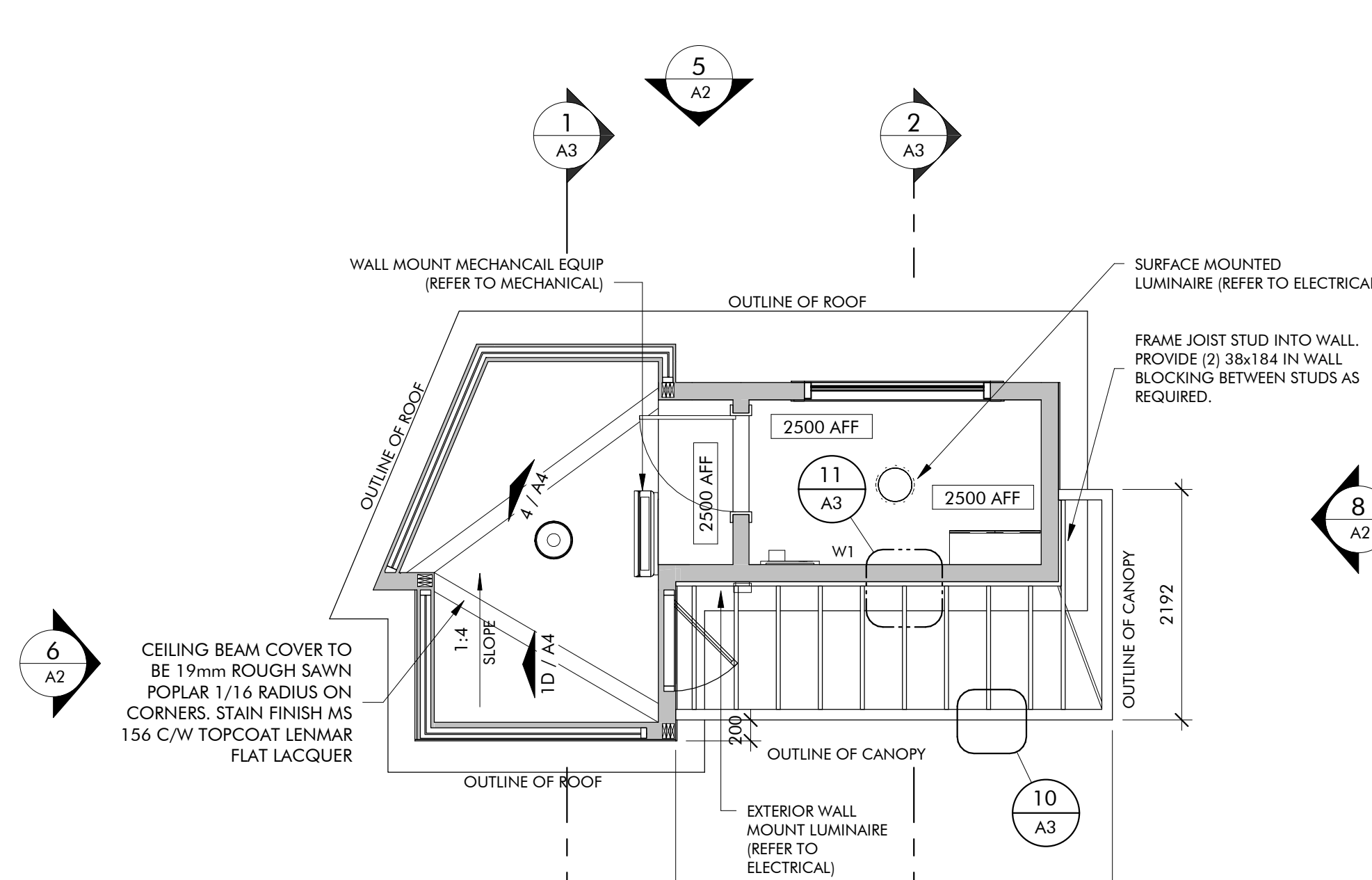




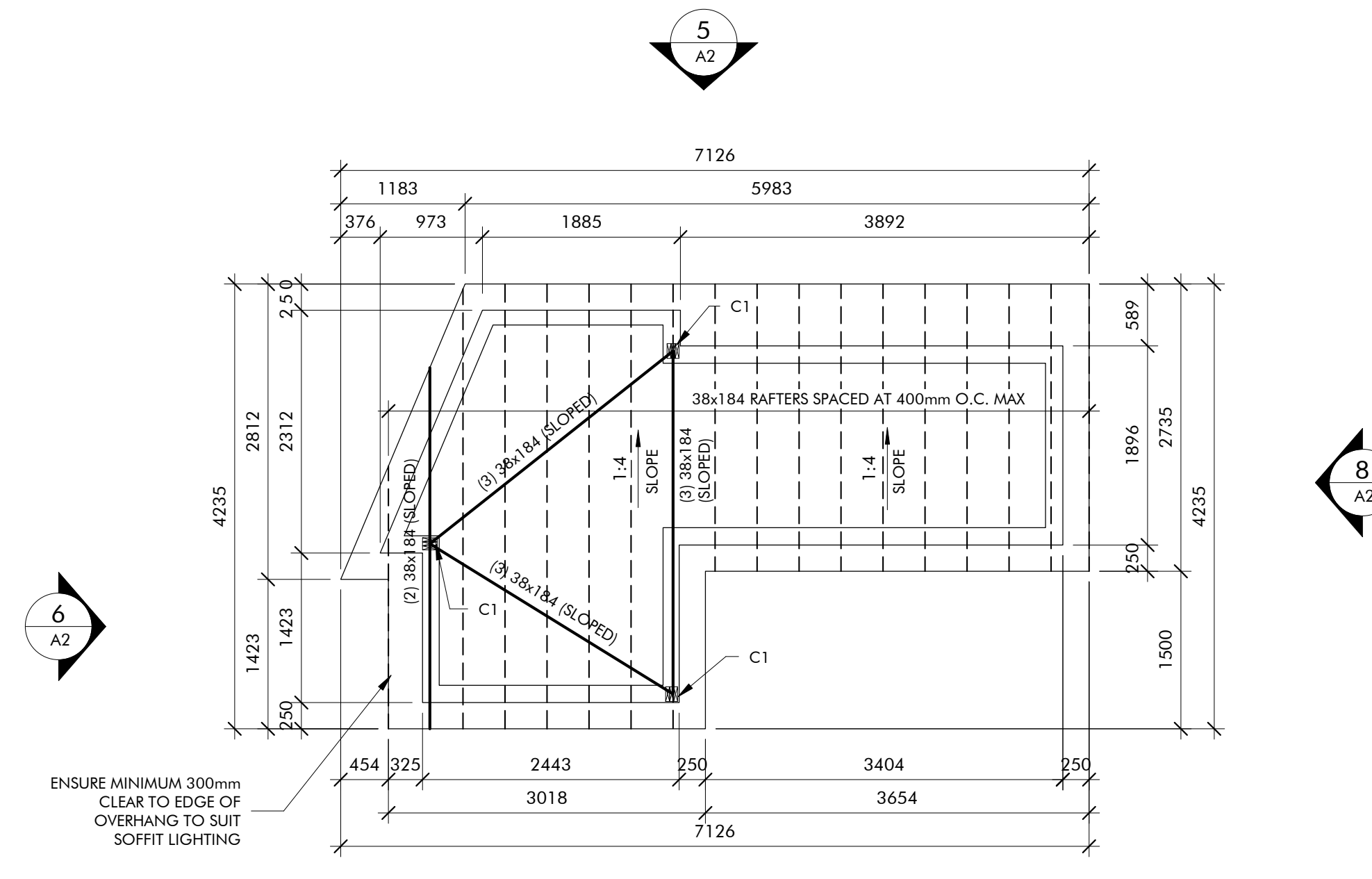
1 FOUNDATION PLAN  
1:50



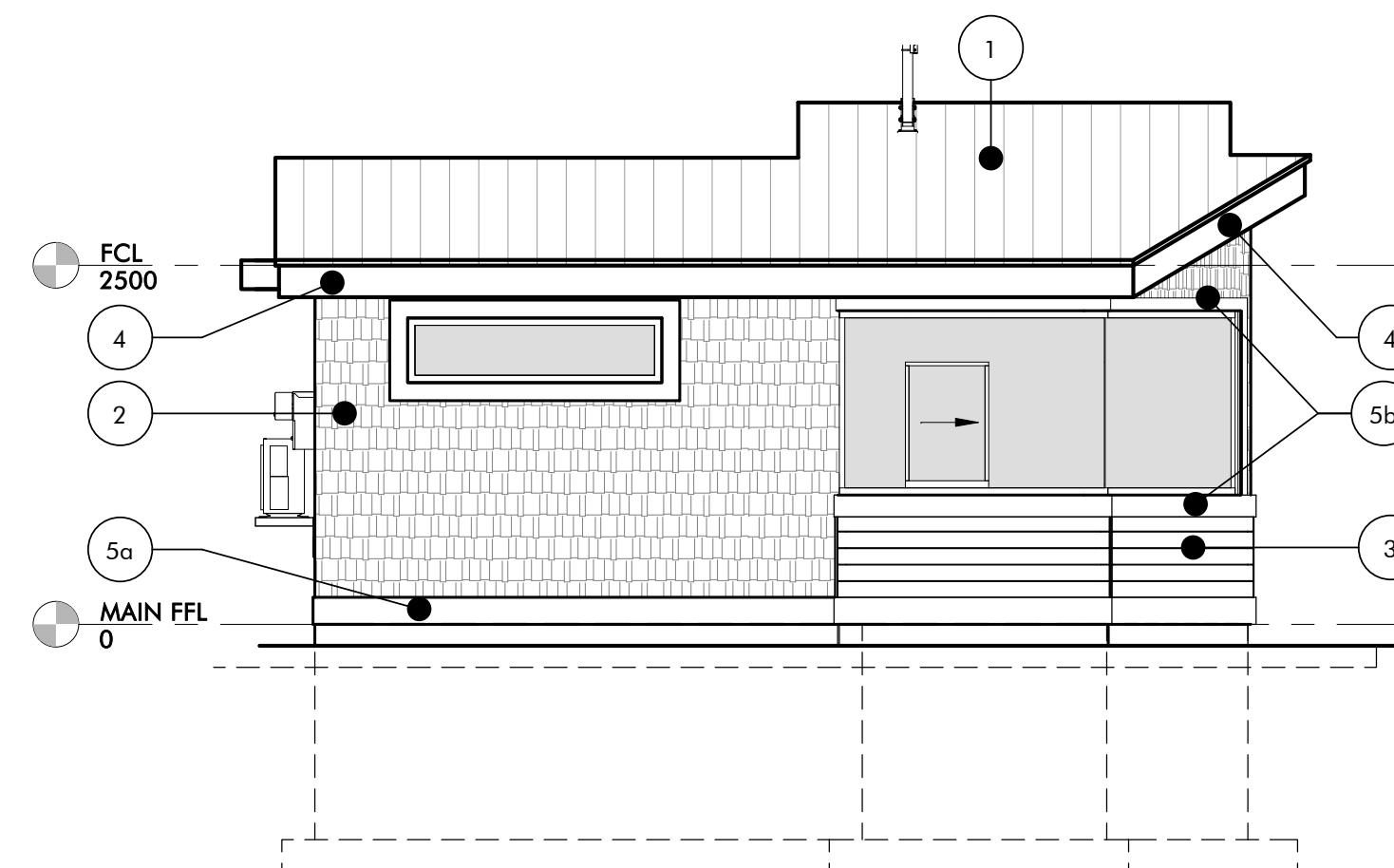
2 MAIN FLOOR PLAN  
1:50



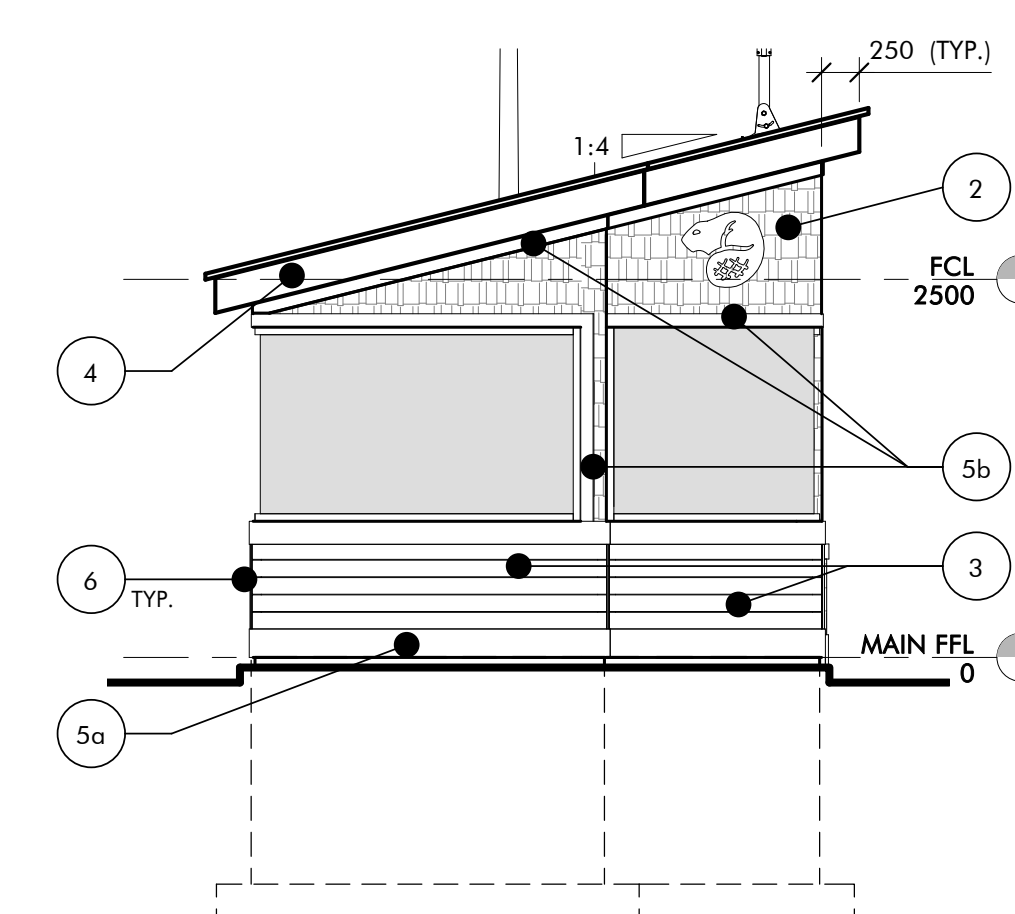
3 REFLECTED CEILING PLAN  
1:50



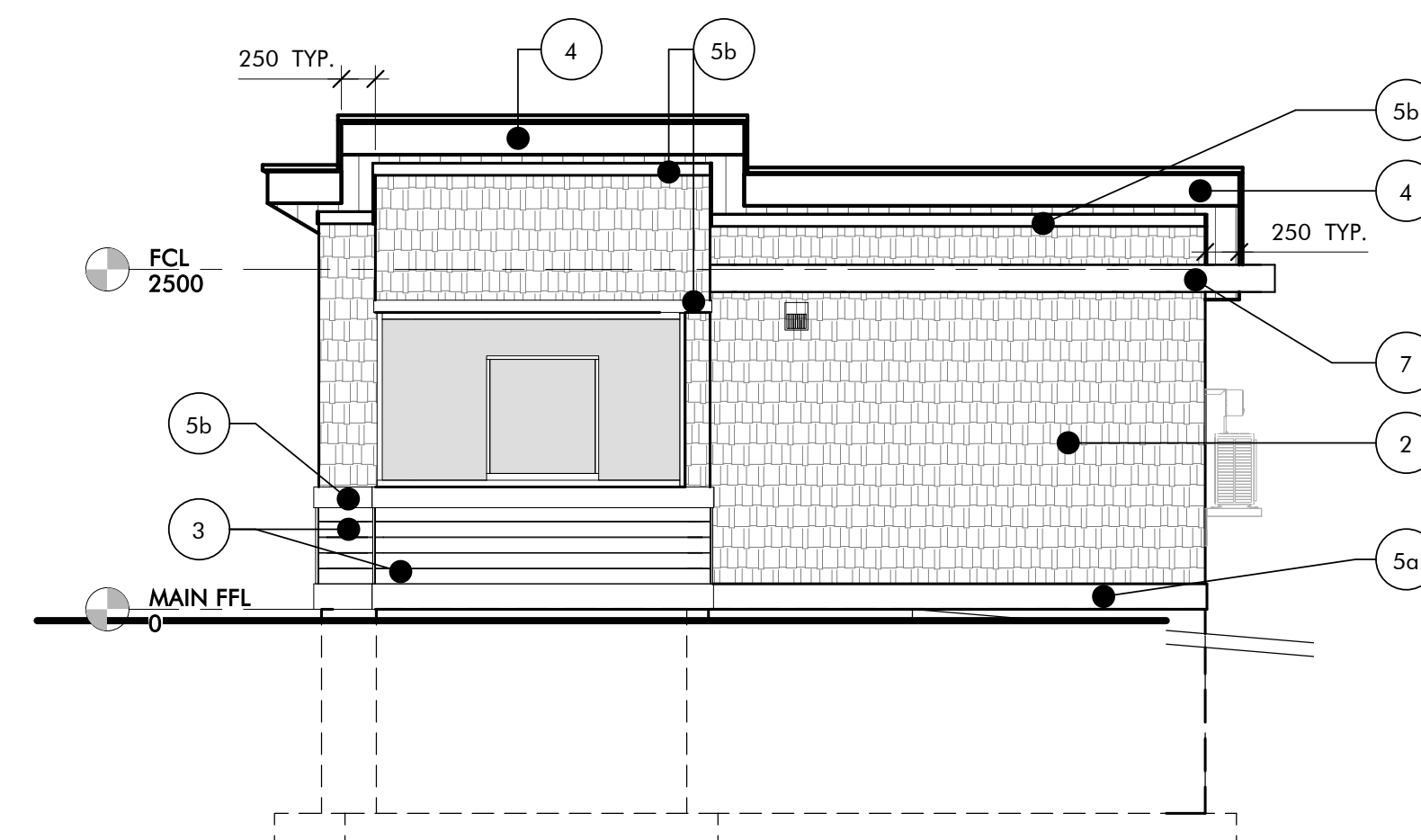
4 ROOF PLAN  
1:50



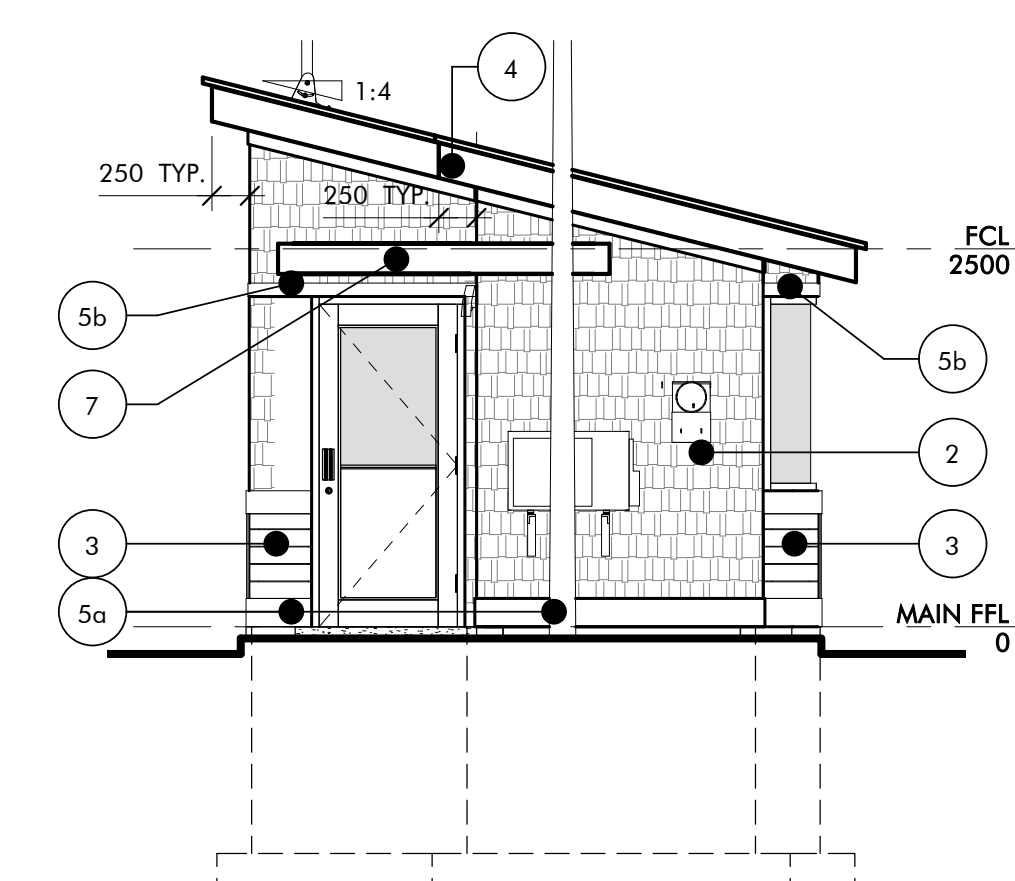
5 SOUTH ELEVATION  
1:50



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)
	DOOR TAG
	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**

- 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.

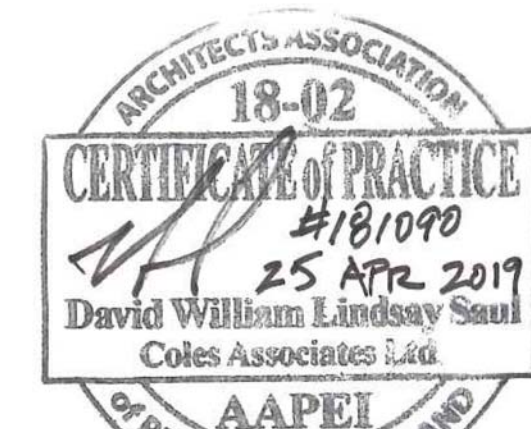
WALL SCHEDULE		
TYPE	DESCRIPTION	REMARKS
W1	- EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) - CEDAR BREATHER - CONTINUOUS NOVAVRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W2	- EXTERIOR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

ROOF TYPE SCHEDULE		
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 134mm WOOD RAFTERS @ 400mm O.C. - R20 BATT INSULATION - 10mil POLYVAPOUR 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 - 10mil POLYVAPOUR BARRIER (TAPERED AND SEALED) - 100mm CLASS GRAVEL COMPACTED TO 100% SPMD - APPROVED UNDISTURBED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	

**ELEVATION MATERIAL LEGEND**

1	VICWEST METAL ROOFING; PROFILE: TRADITION 100-4 COLOR: REGENT GRAY #56082
2	MAIBEC PREFINISHED CEDAR SHINGLE: MAIBEC TRADITIONAL COLOR: BAR HARBOR NATURAL
3	MAIBEC PREFINISHED WOOD SIDING: MAIBEC BRUSHED MODERN COLOR - 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
7	CANOPY - REFER TO DETAILS



0 ISSUED FOR TENDER 04/25 2019

revisions

drawing project

PARKS CANADA  
AGENCY ENTRANCES  
& KIOSKS BRACKLEY  
BEACH, PE

drawing dessin

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

PWSSC Project Manager Administrateur de projets TPSSC

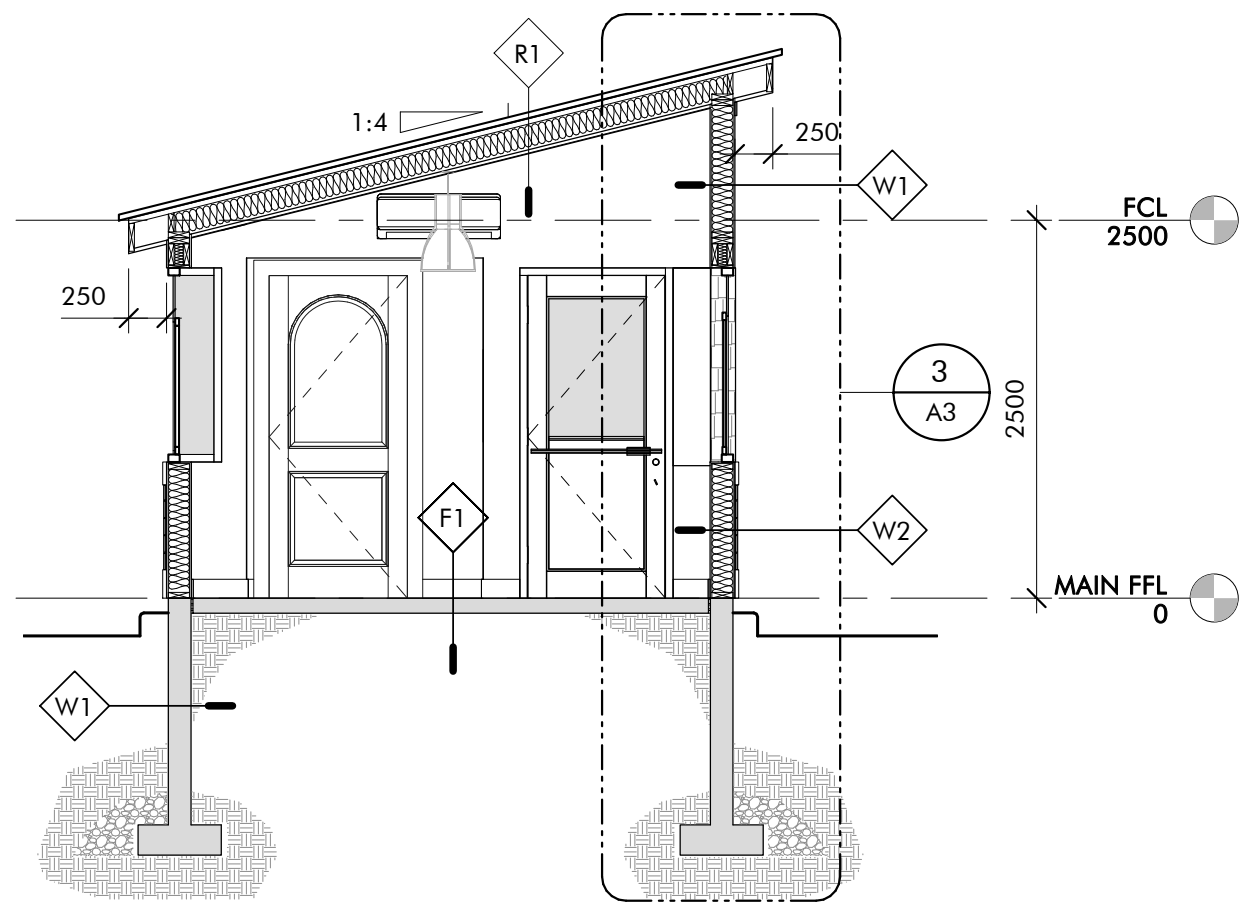
project number no. du projet

181090

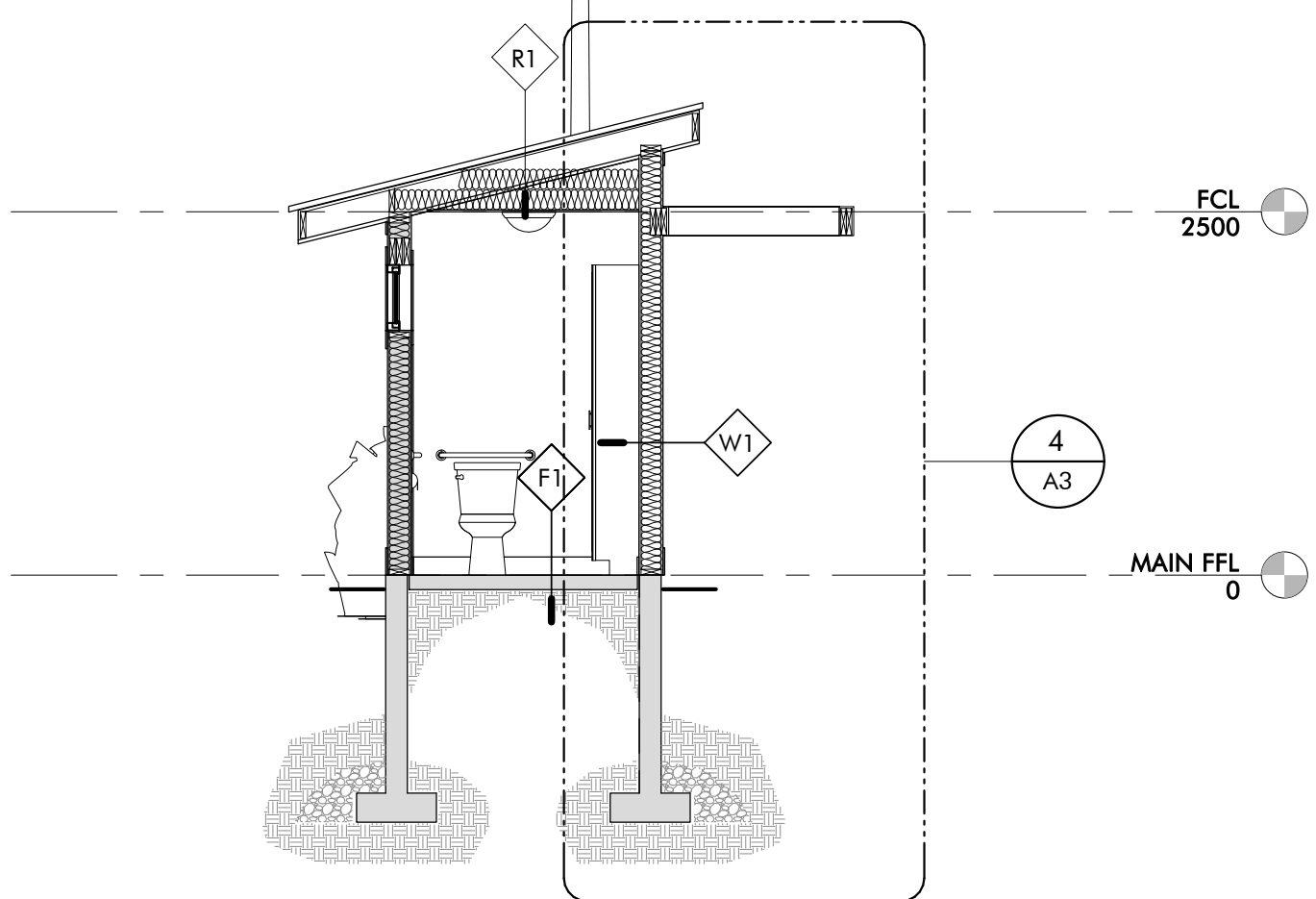
drawing no. du dessin

A2

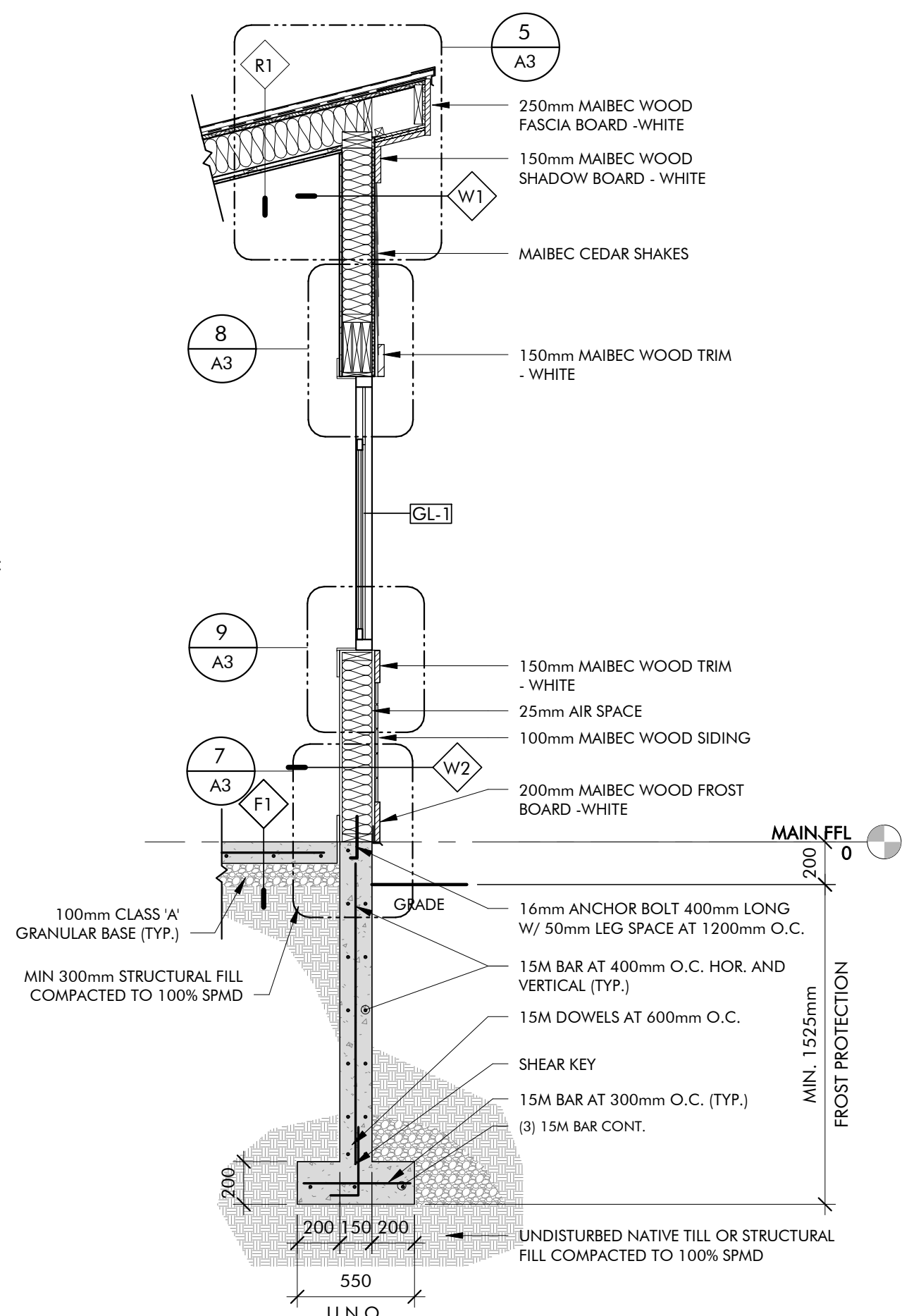




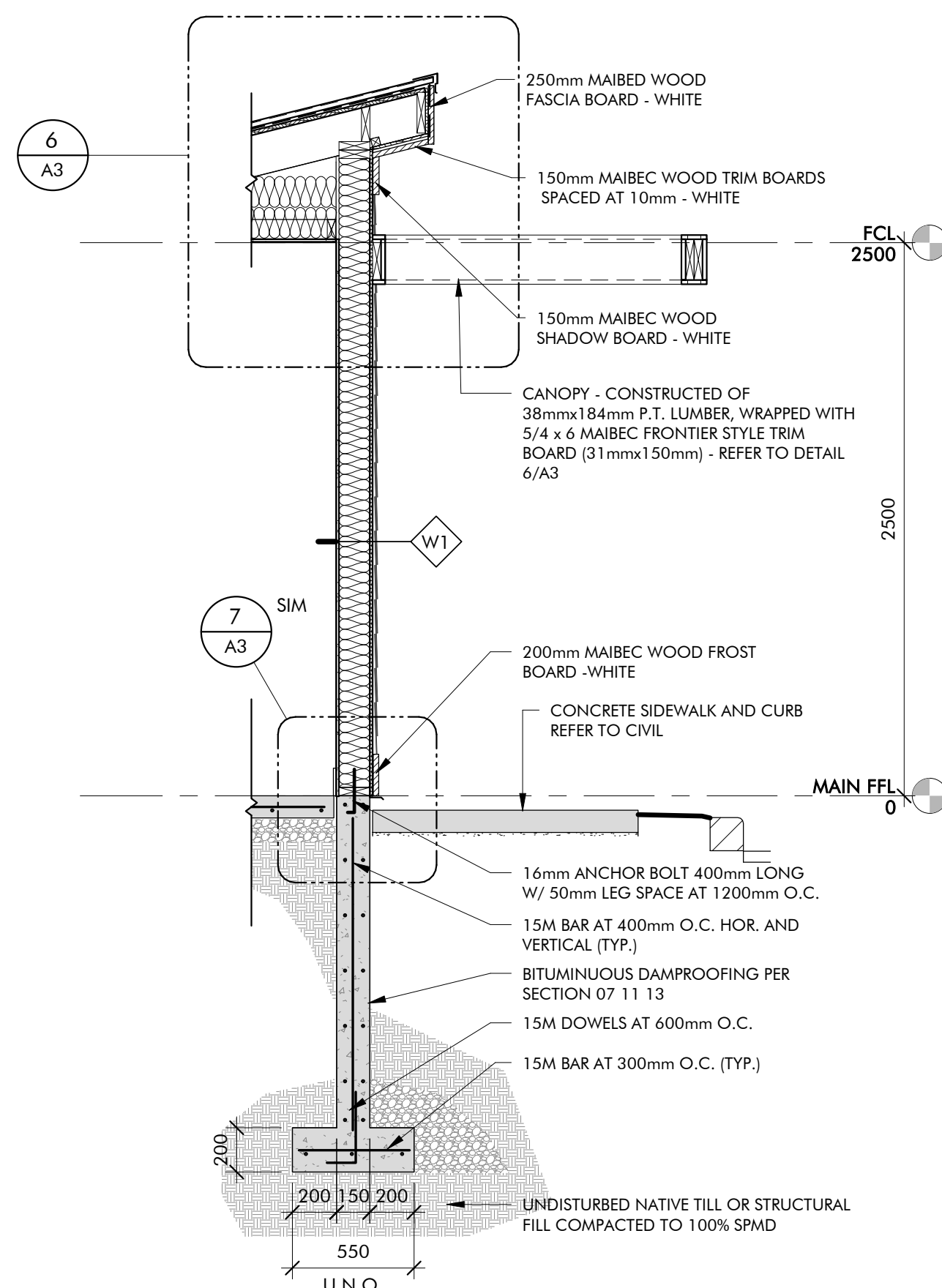
1 SECTION A  
1:50



2 SECTION B  
1:50



3 WALL SECTION A  
1:25

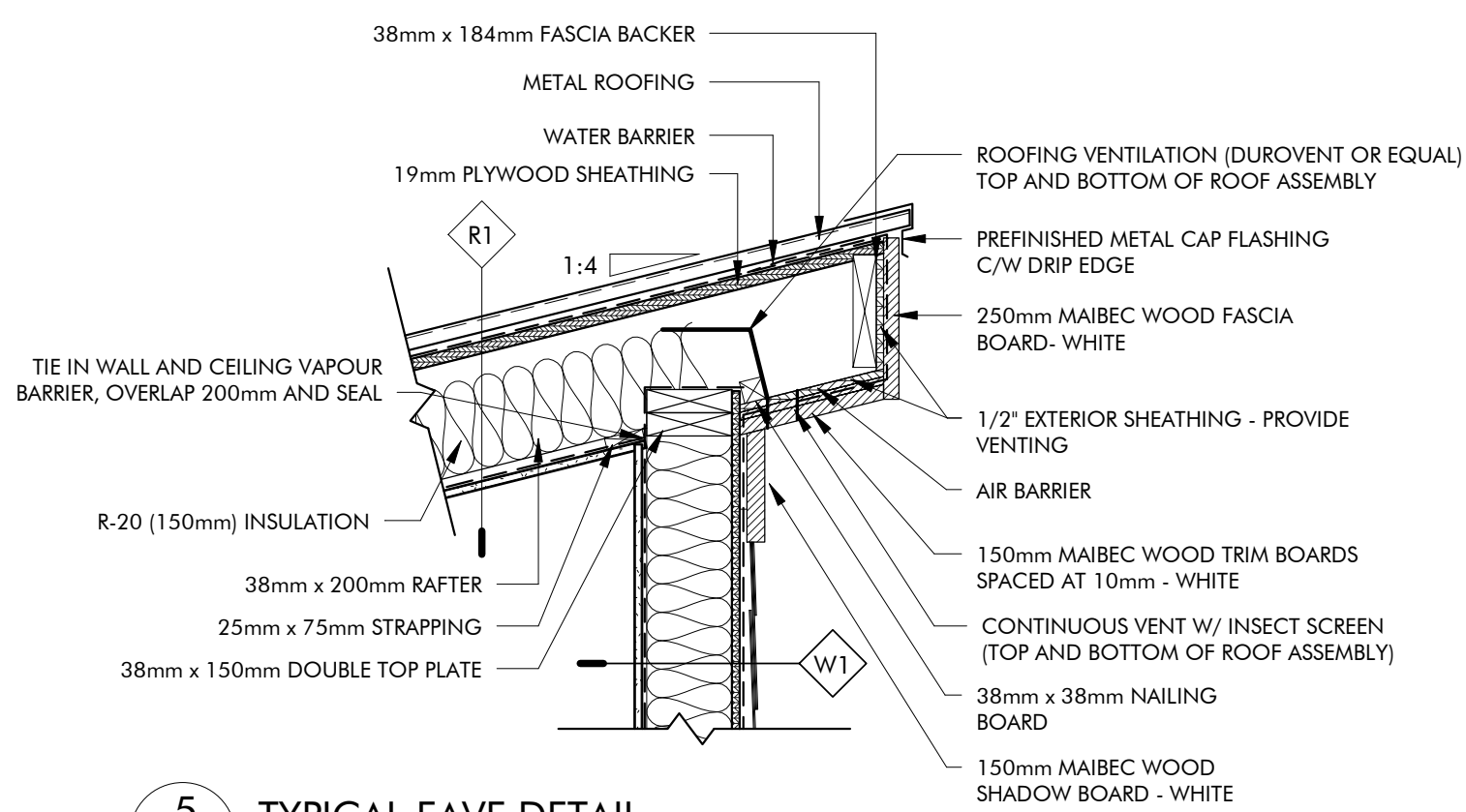


4 WALL SECTION B  
1:25

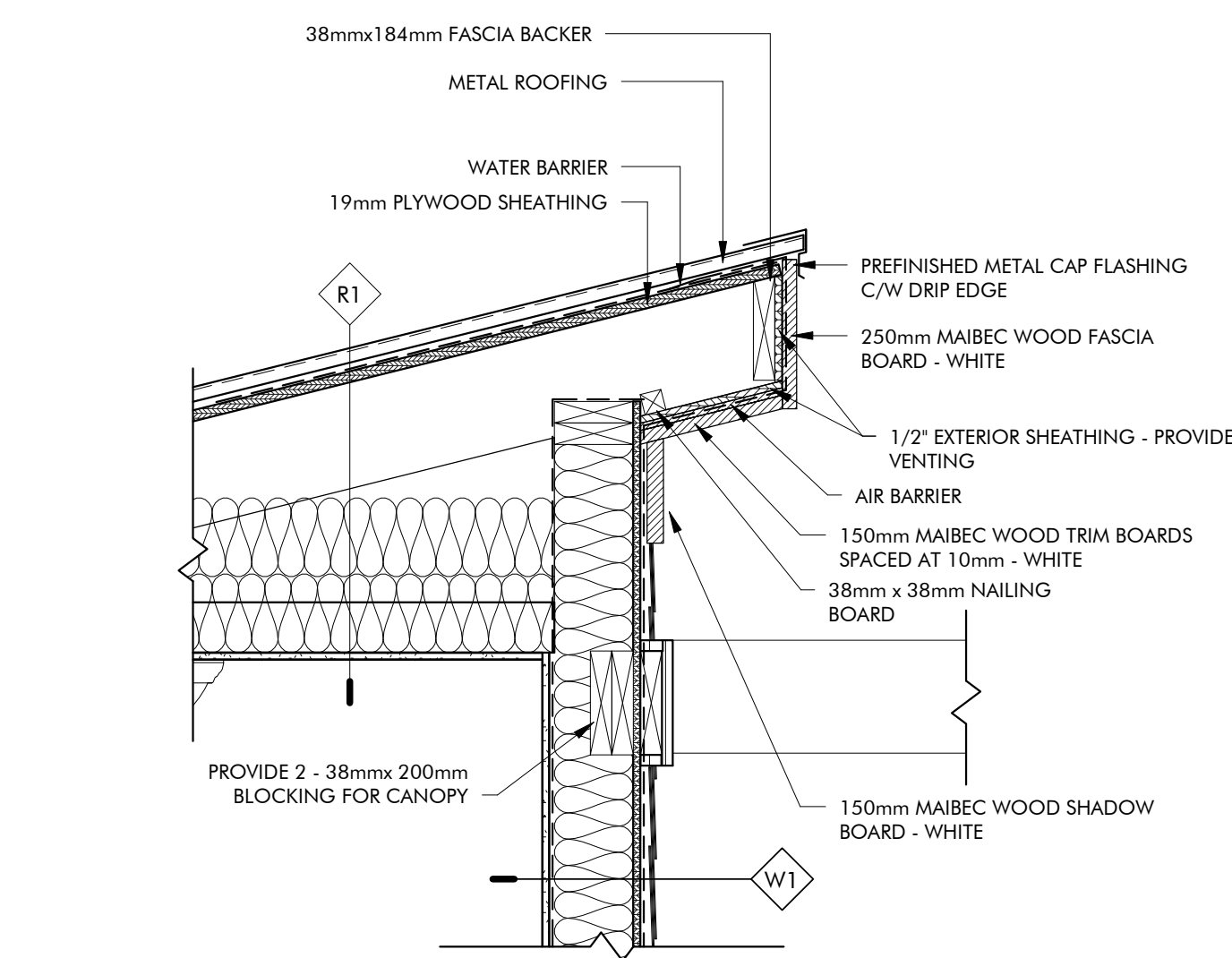
WALL SCHEDULE		
TYPE	DESCRIPTION	REMARKS
W1	- EXTERIOR CEDAR FINISH (REFER TO ELEVATIONS) - CEDAR BREATHER - CONTINUOUS NOVAVRAP AIR BARRIER - 12.5mm EXTERIOR PLYWOOD SHEATHING - 38mm x 150mm WOOD STUDS AT 16" O.C. - R20 BATT INSULATION - 10mil POLY VAPOUR - 16mm GYPSUM WALL BOARD PAINTED	
W2	- EXTERIOR WOOD SIDING (REFER TO ELEVATIONS) - 19mm x 64mm WOOD STRAPPING - CEDAR BREATHER - CONTINUOUS NOVAVRAP 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	
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ROOF TYPE SCHEDULE		
TYPE	DESCRIPTION	REMARKS
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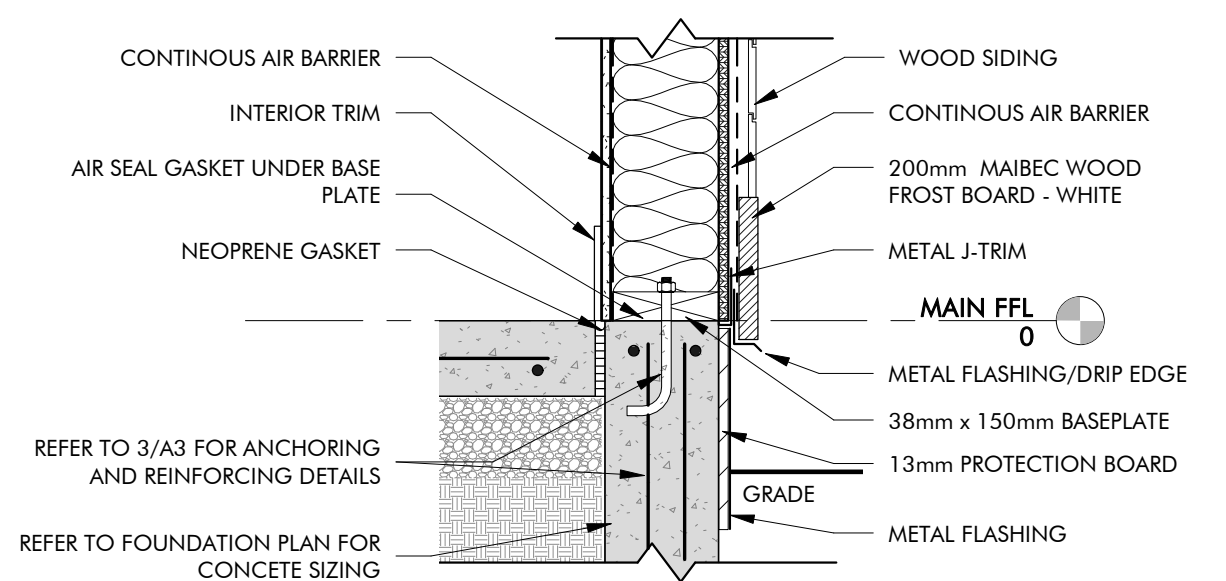
FLOOR TYPE SCHEDULE		
TYPE	DESCRIPTION	REMARKS
F1	- CERAMIC TILE FLOOR - 100mm REINFORCED CONCRETE SLAB - 10mil POLYVAPOUR BARRIER (TAPED AND SEALED) - 100mm GLASS GRAVEL COMPACTED TO 100% SPMD - APPROVED UNDISTURBED FILL OR 300mm STRUCTURAL FILL COMPACTED TO 100% SPMD	



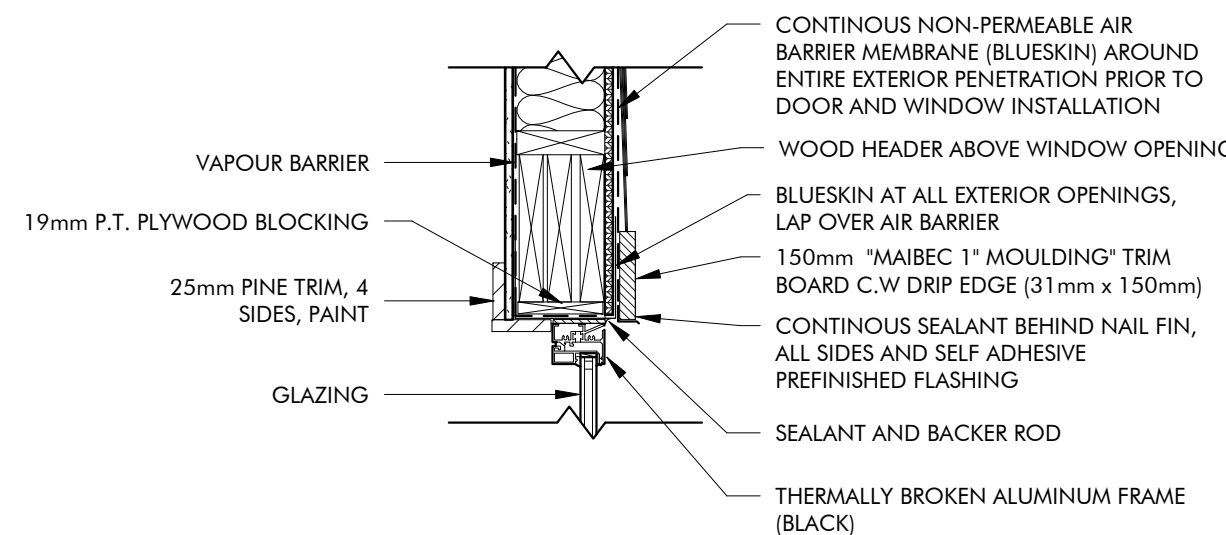
5 TYPICAL EAVE DETAIL  
1:12



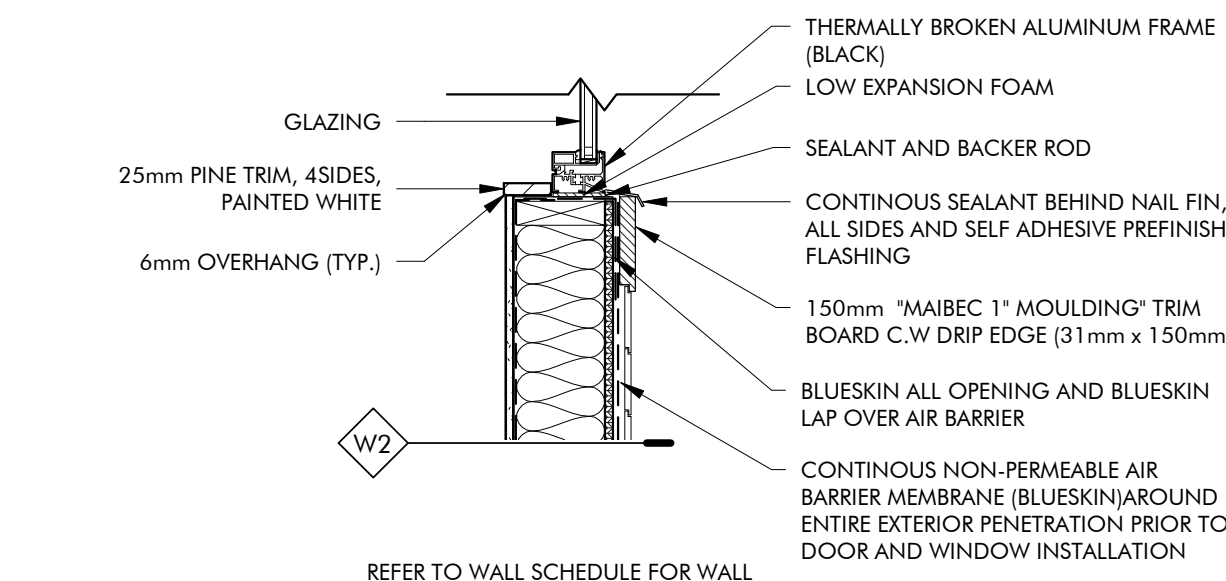
6 EAVE DETAIL #2  
1:12



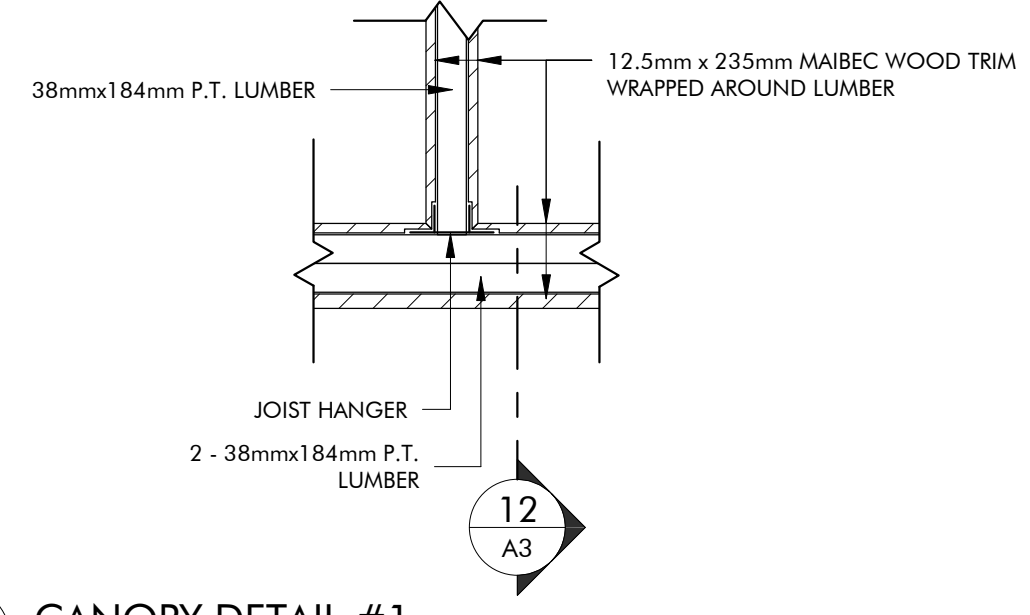
7 WALL TO FOUNDATION DETAIL  
1:10



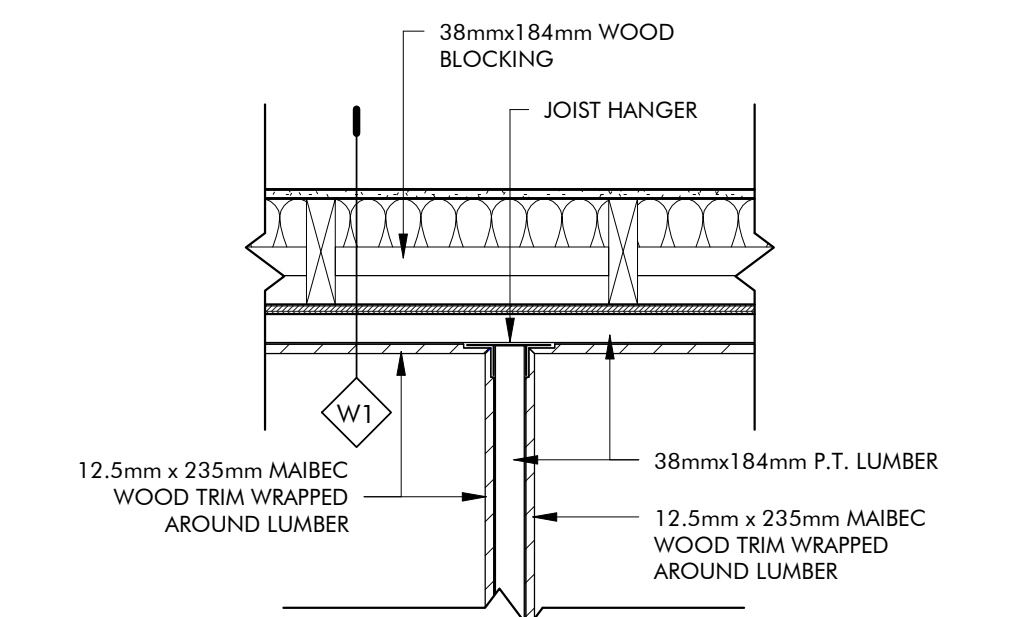
8 WINDOW HEAD DETAIL  
1:12



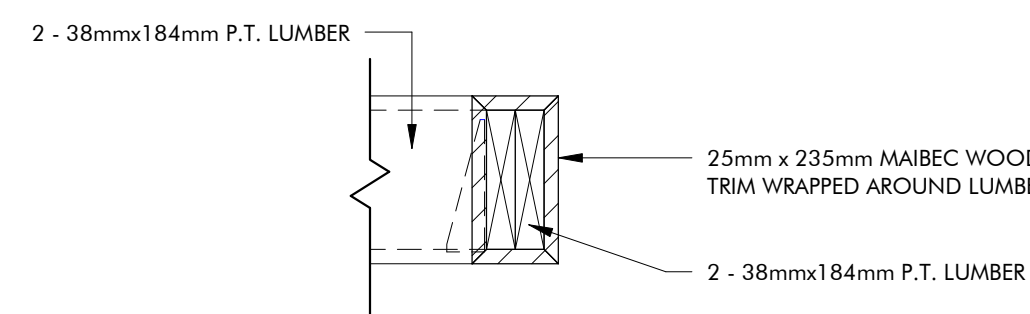
9 WINDOW SILL DETAIL  
1:12



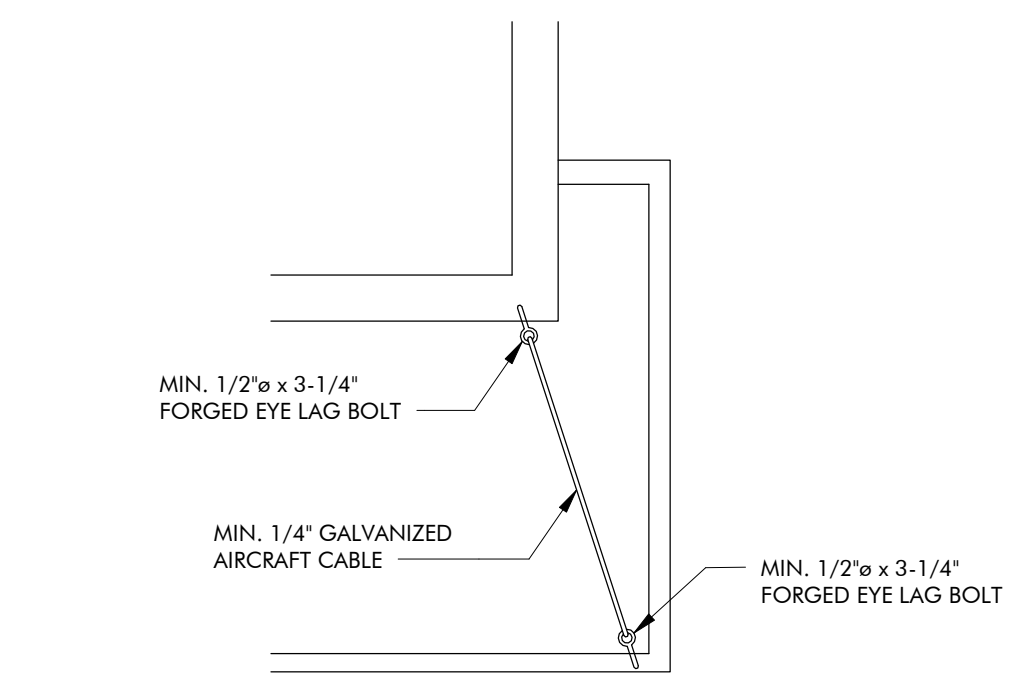
10 CANOPY DETAIL #1  
1:10



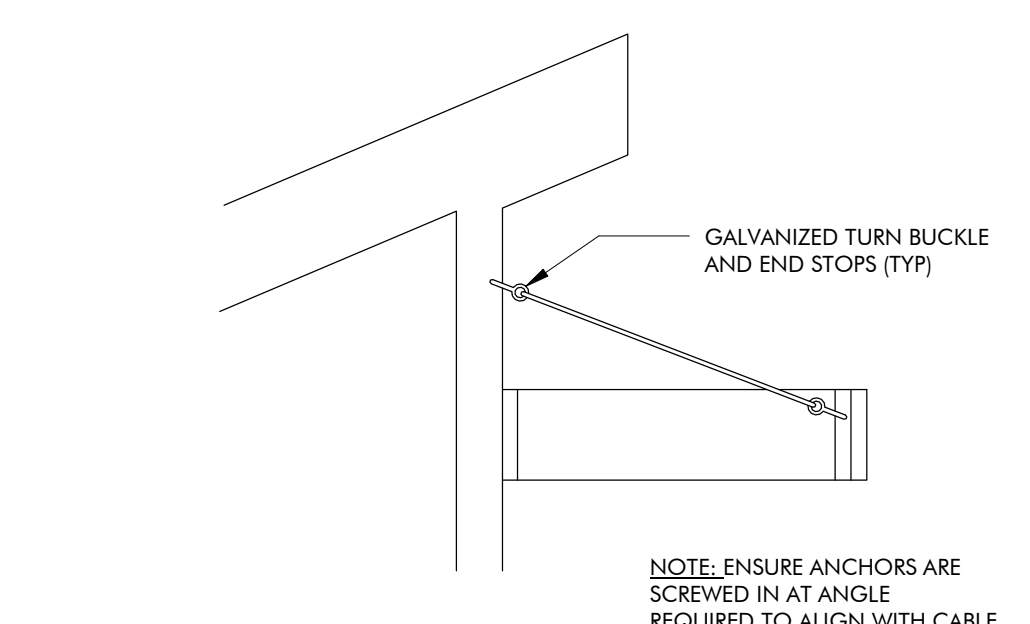
11 CANOPY DETAIL #2  
1:10



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
PWSSC Project Manager	Administrateur de projets TPSSC	
project number		no. du projet
	181090	
drawing no		no. du dessin
	A3	





- 1 CABINETS-INTERIOR  
TYPICAL: 19mm PLYWOOD, [WHITE] NO EXPOSED EDGES  
2 CABINET DOORS, DRAWERS, GABLES & EXPOSED SHELVES  
TYPICAL: 19mm PLYWOOD WITH PLASTIC LAMINATE.  
3 COUNTERTOP:  
19mm PLYWOOD WITH PLASTIC LAMINATE. REFER TO  
MILLWORK DRAWINGS.  
4 STANDARDS FOR SHELVES TO BE RECESSED.  
5 HARDWARE AS PER SPECIFICATIONS  
6 USE ONLY FULL P-LAM SHEETS WHERE POSSIBLE.  
7 PROVIDE FULL WIDTH 19mm PLYWOOD DIVIDERS  
(HORIZONTALITY) BETWEEN EACH DRAWER. SHOWN ON  
DETAIL 3/4A.

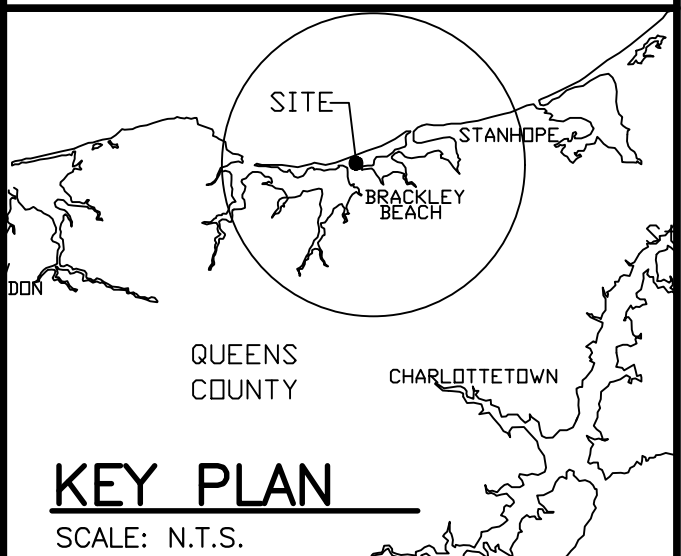
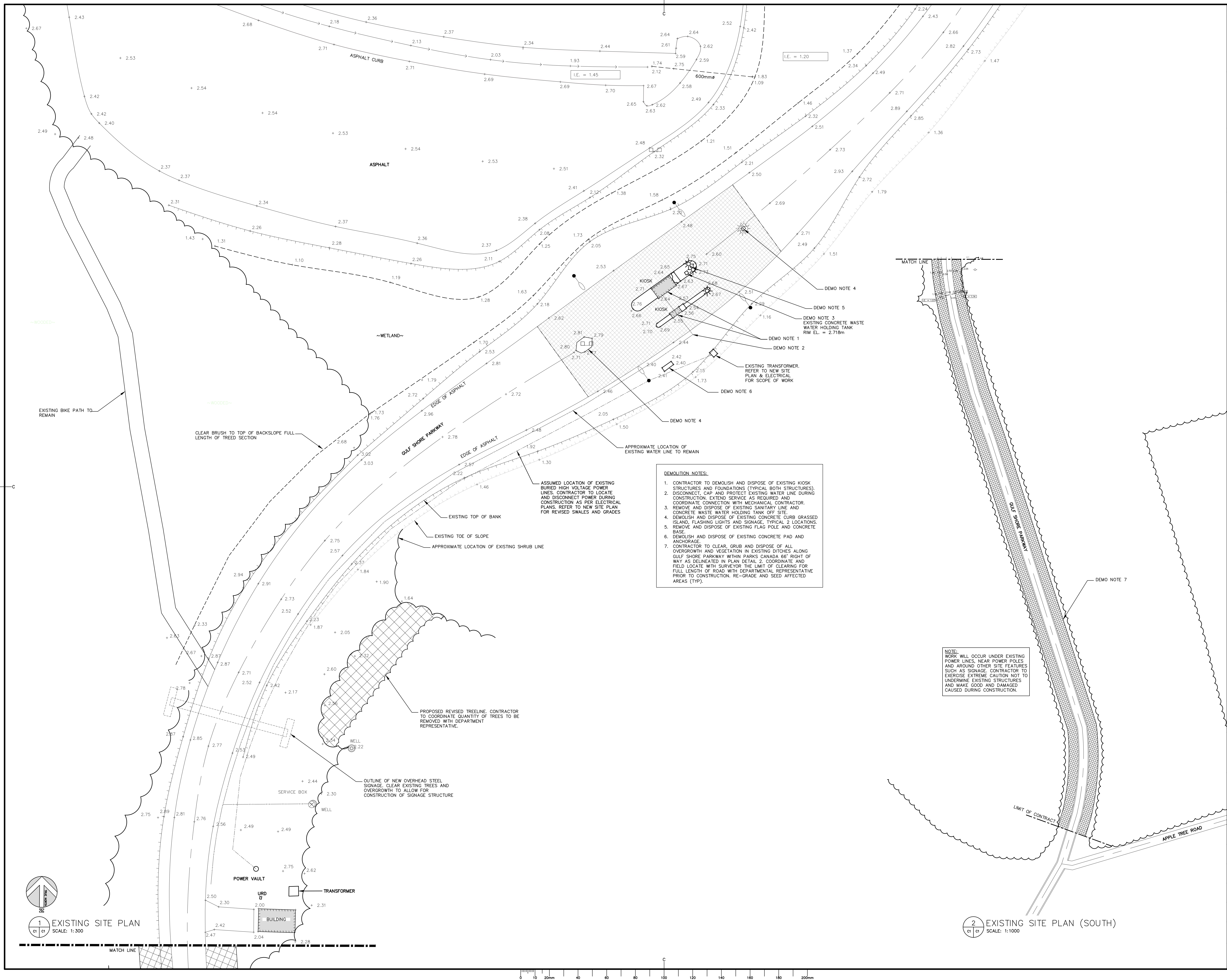
(XX) - "XX" = SYMBOL  
NOTE:  
CONFIRM ALL ACCESSORIES COMPLY WITH CSA STANDARDS PRIOR TO INSTALLATION.



ROOM FINISH ABBREVIATIONS					
FLOOR		WALL		CEILING	
ABBR		ABBR		ABBR	
CT	CERAMIC TILE	PT	PAINT	GWB	GYPSUM WALL BOARD - PAINTED
		GWR	GYPSUM WALL BOARD - PAINTED	PT	PAINT

GL-1 GLAZING UNIT ELEVATION

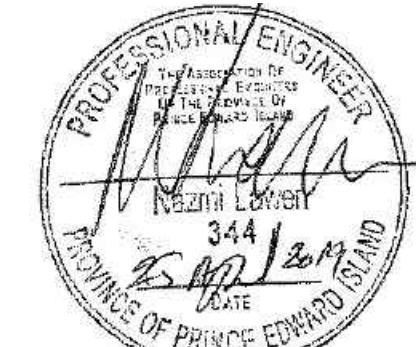




**KEY PLAN**  
SCALE: N.T.S.

**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
- EXISTING GRADE
- 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**

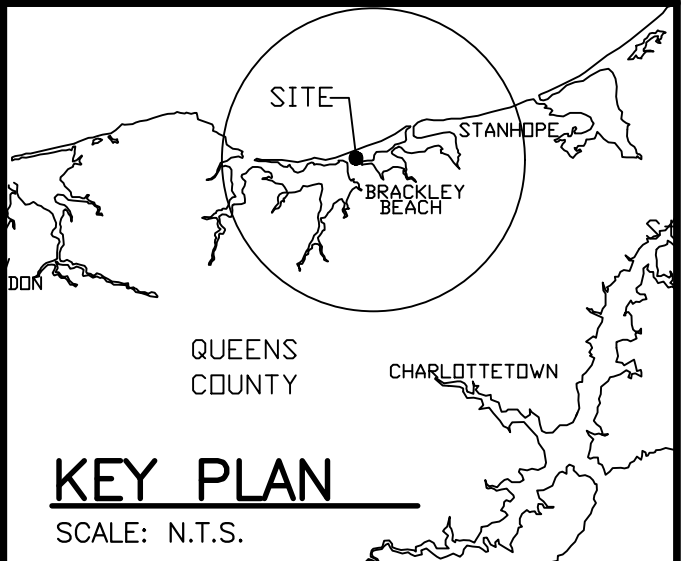
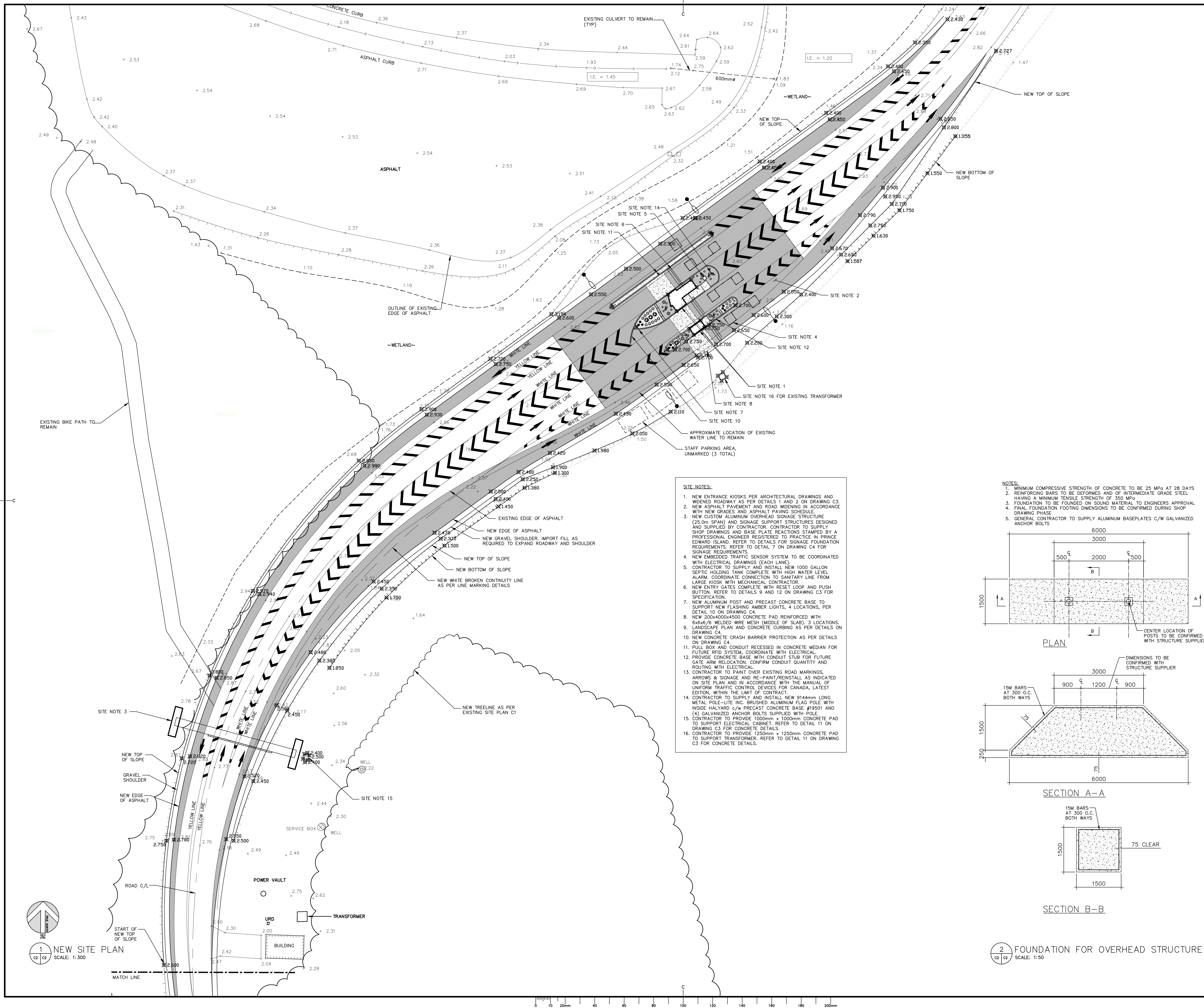
**EXISTING SITE PLAN  
& NOTES**

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**

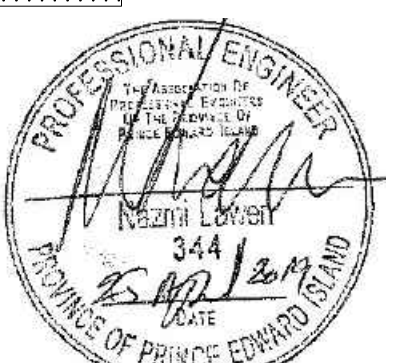
drawing no. no. du dessin  
**C1**





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



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revisions		date

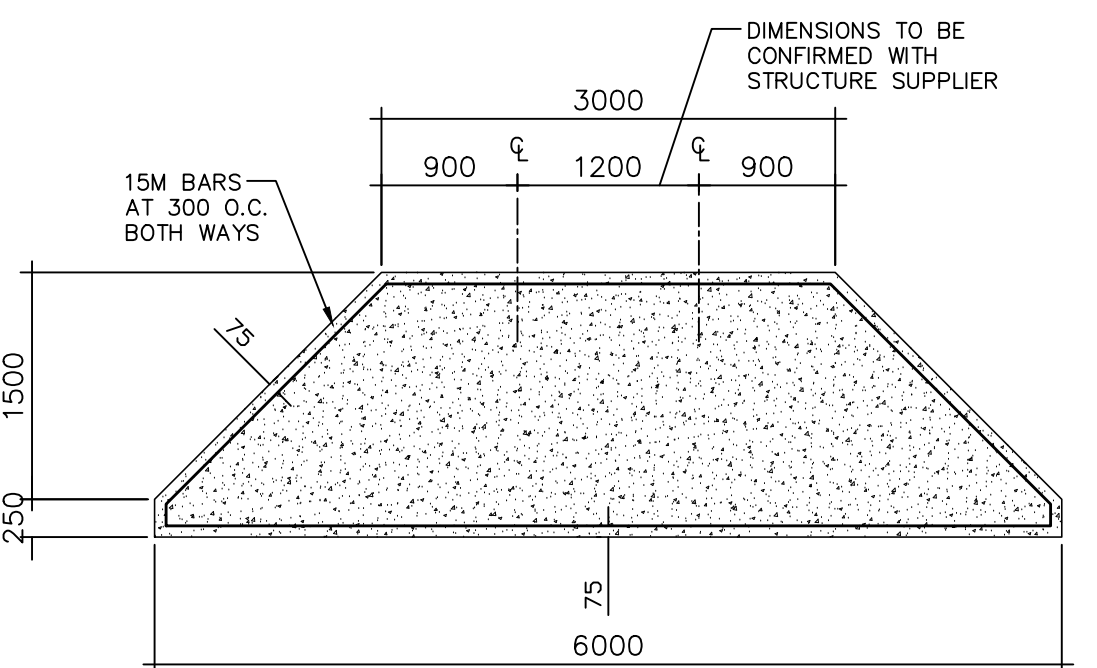
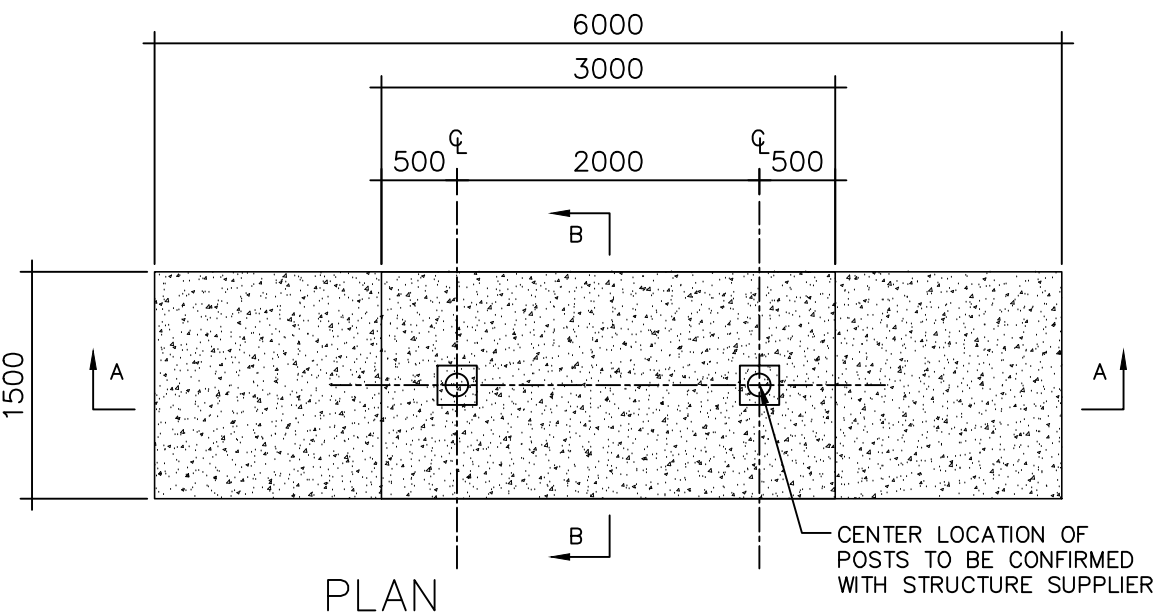
project  
**PARKS CANADA AGENCY  
ENTRANCES & KIOSKS  
BRACKLEY BEACH,  
BRACKLEY BEACH, PE**

drawing  
**NEW SITE PLAN,  
DETAILS & NOTES**

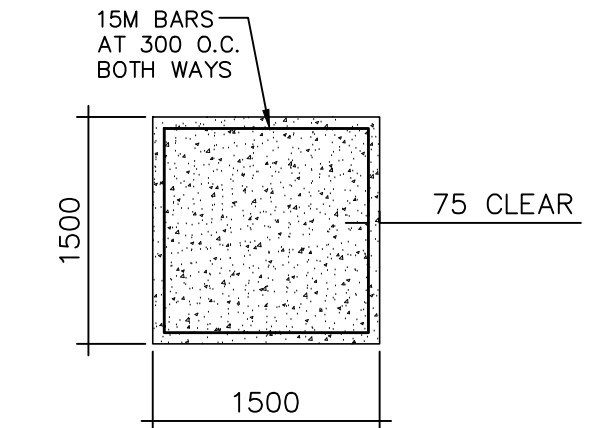
designed	SPM, E.I.T.	conçu
date	April 2019	
drawn	SPM, E.I.T.	dessiné
date	April 2019	
approved	NL, P.Eng	approuvé
date	April 2019	
Tender		Soumission

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

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



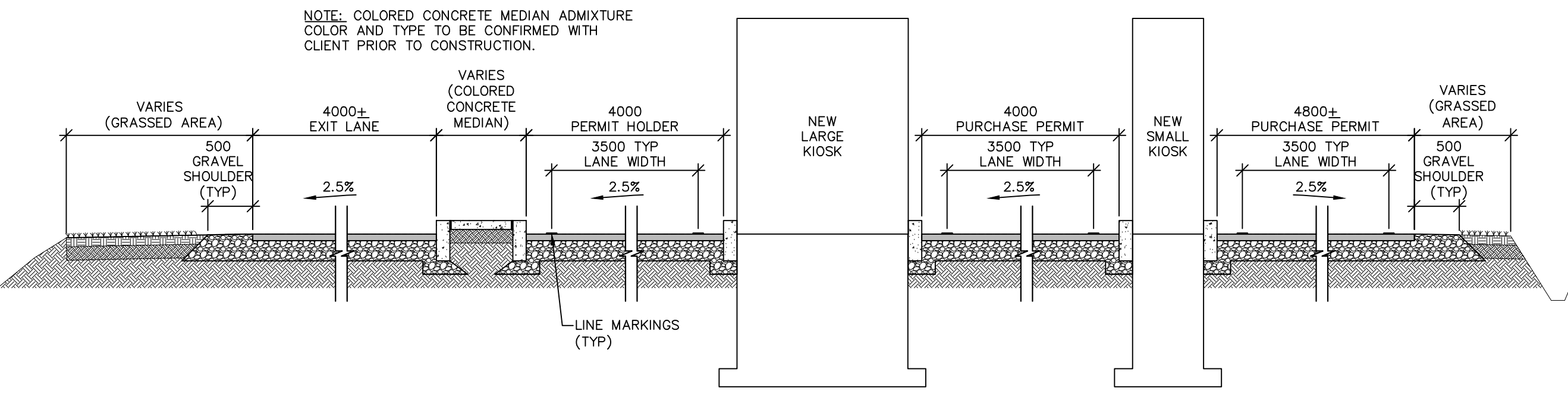
SECTION A-A



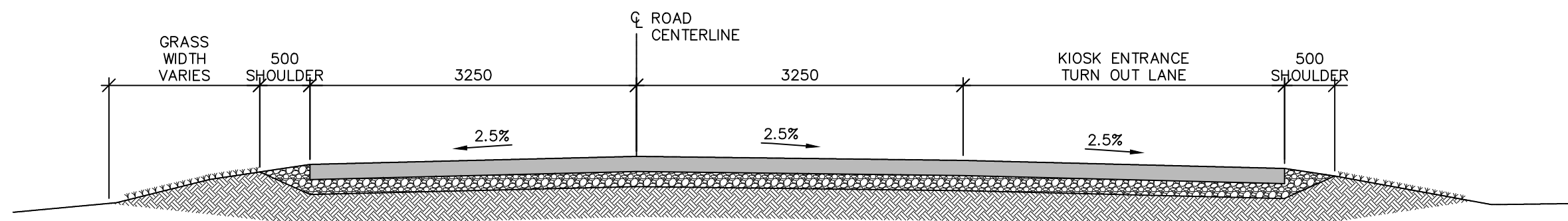
SECTION B-B

FOUNDATION FOR OVERHEAD STRUCTURE  
SCALE: 1:50

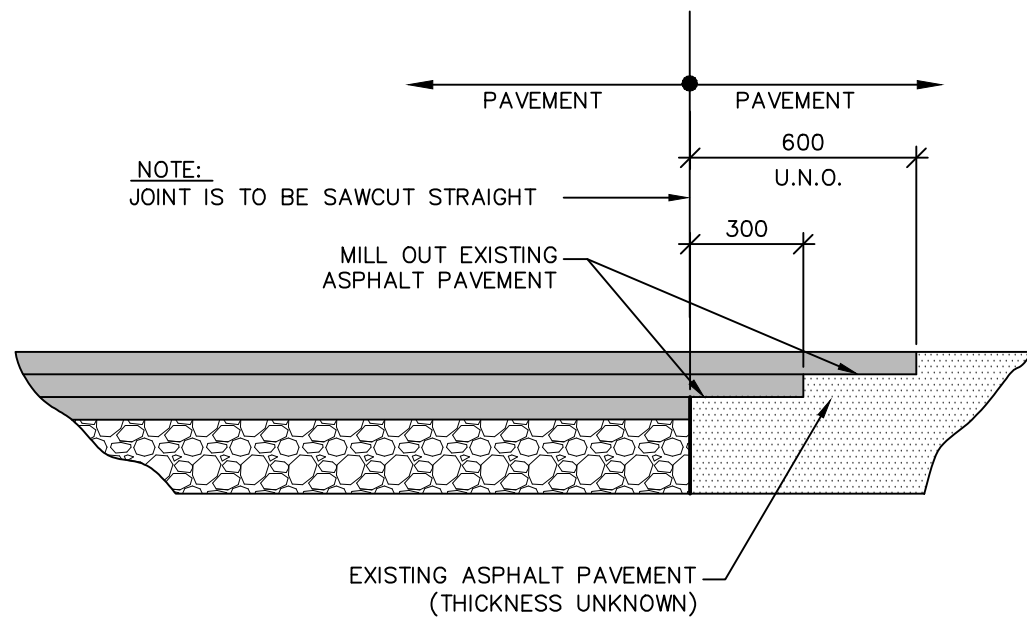




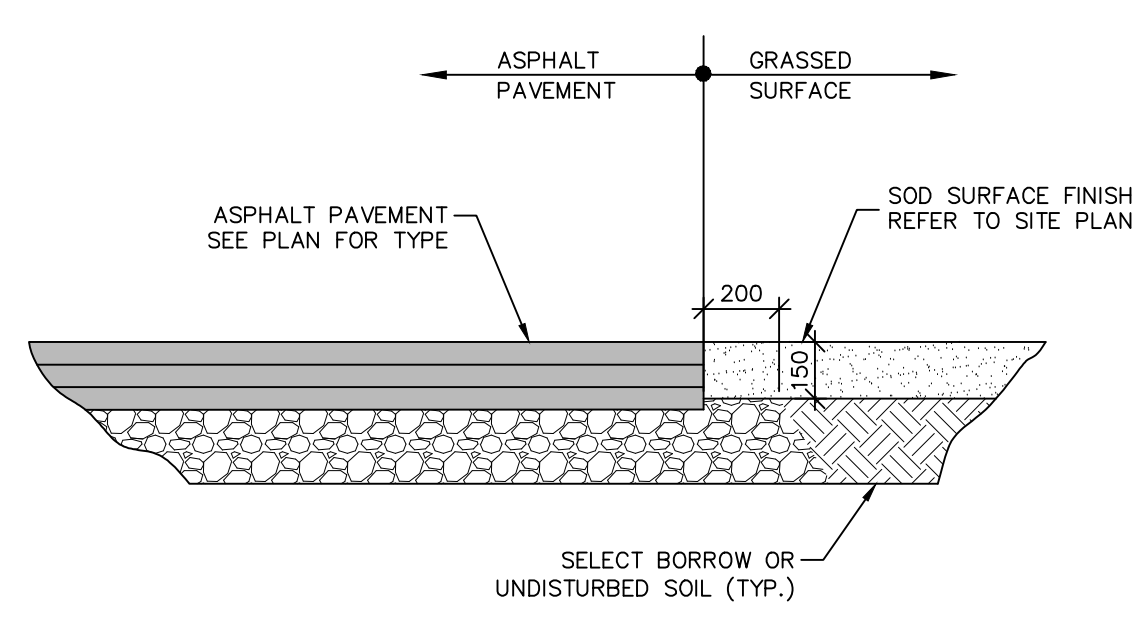
1 SECTION: ROADWAY AT KIOSK/MEDIANS (TYPICAL)  
CS CS 1:50



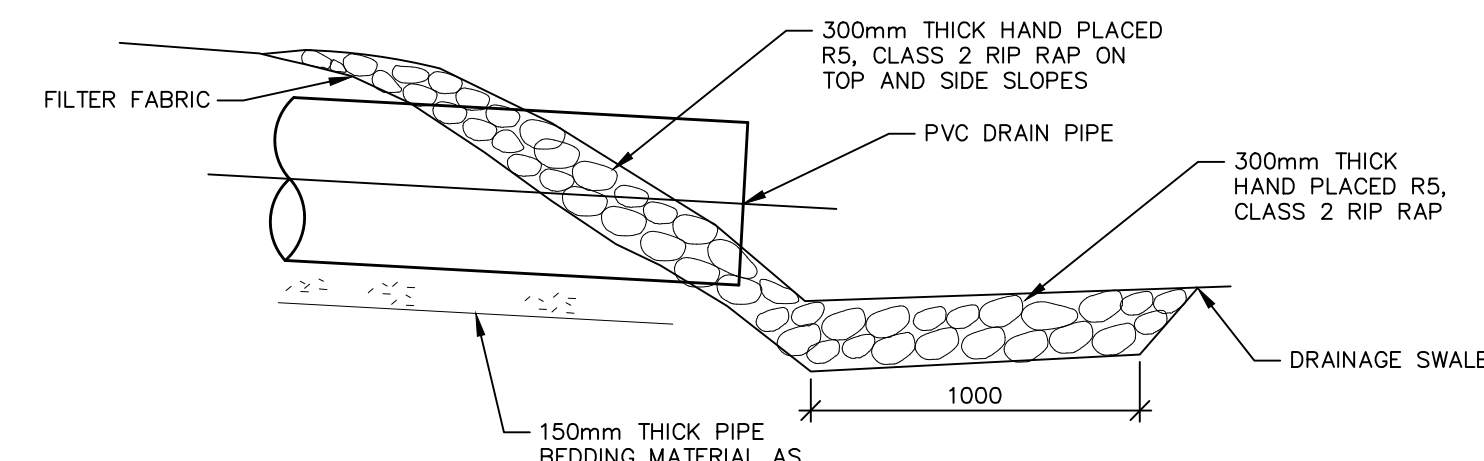
2 SECTION: ROADWAY (TYPICAL)  
CS CS 1:50



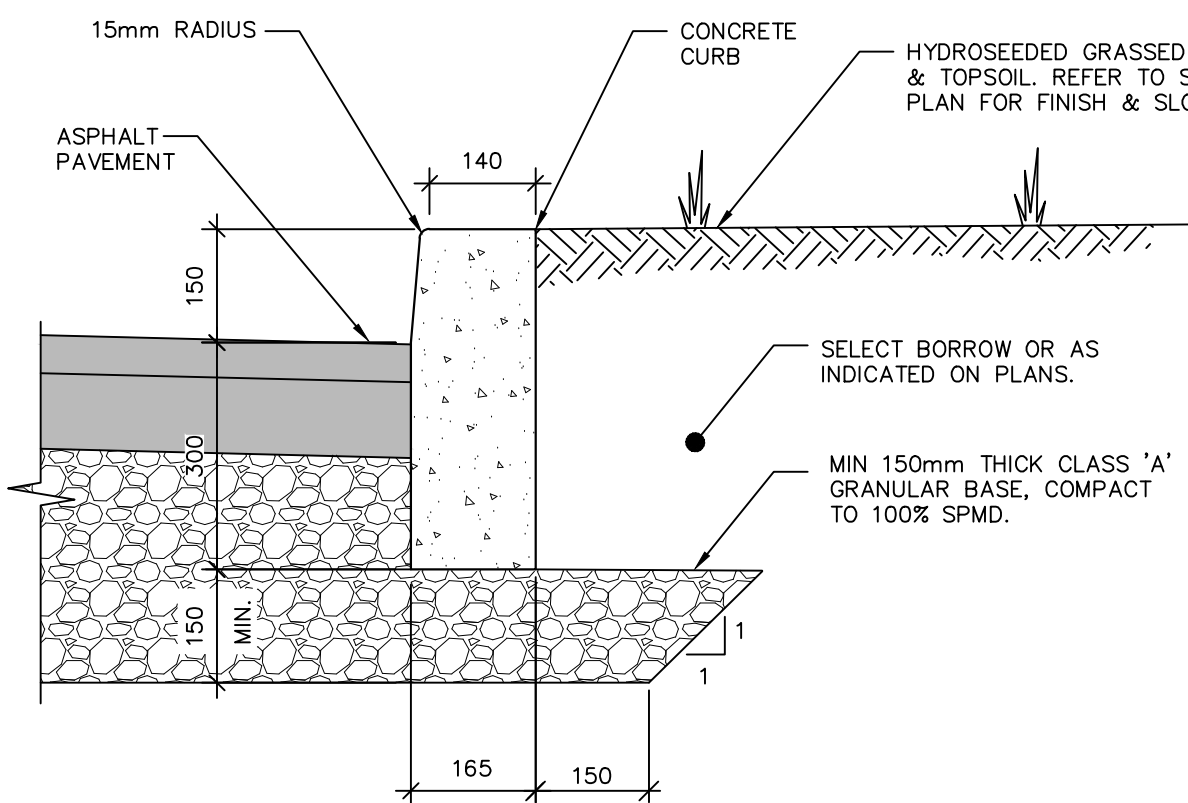
4 ASPHALT PAVEMENT DETAIL JOINT AT EXISTING / NEW  
CS CS 1:20



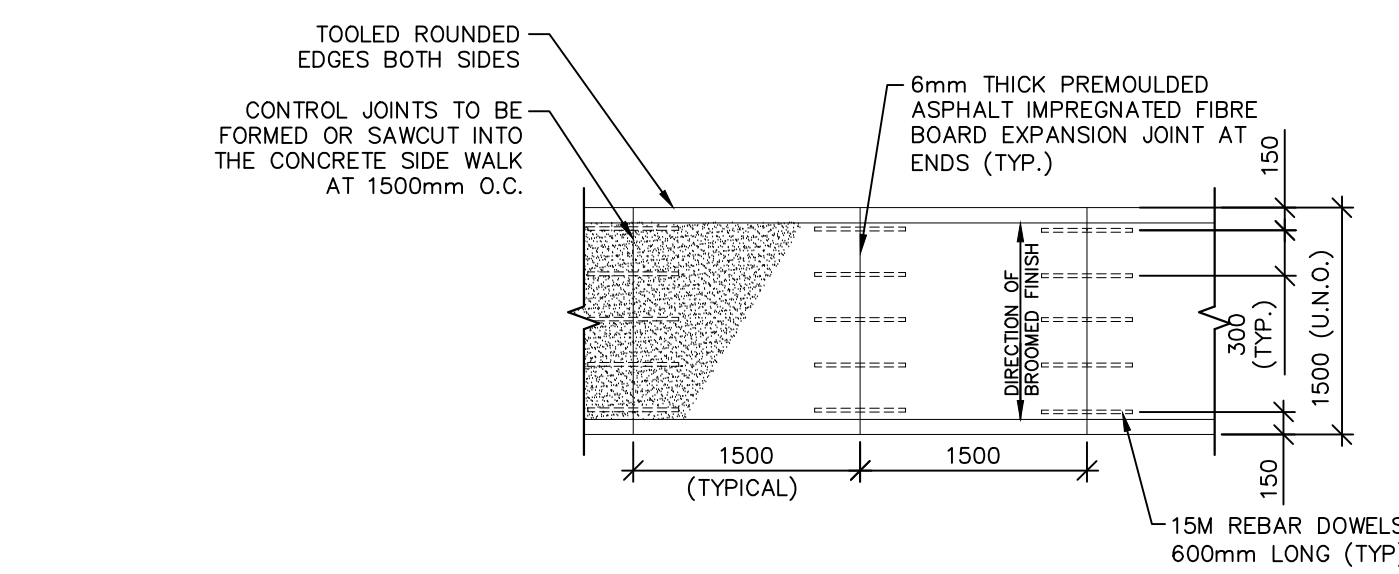
5 ASPHALT PAVEMENT DETAIL JOINT AT GRASS / NEW  
CS CS 1:20



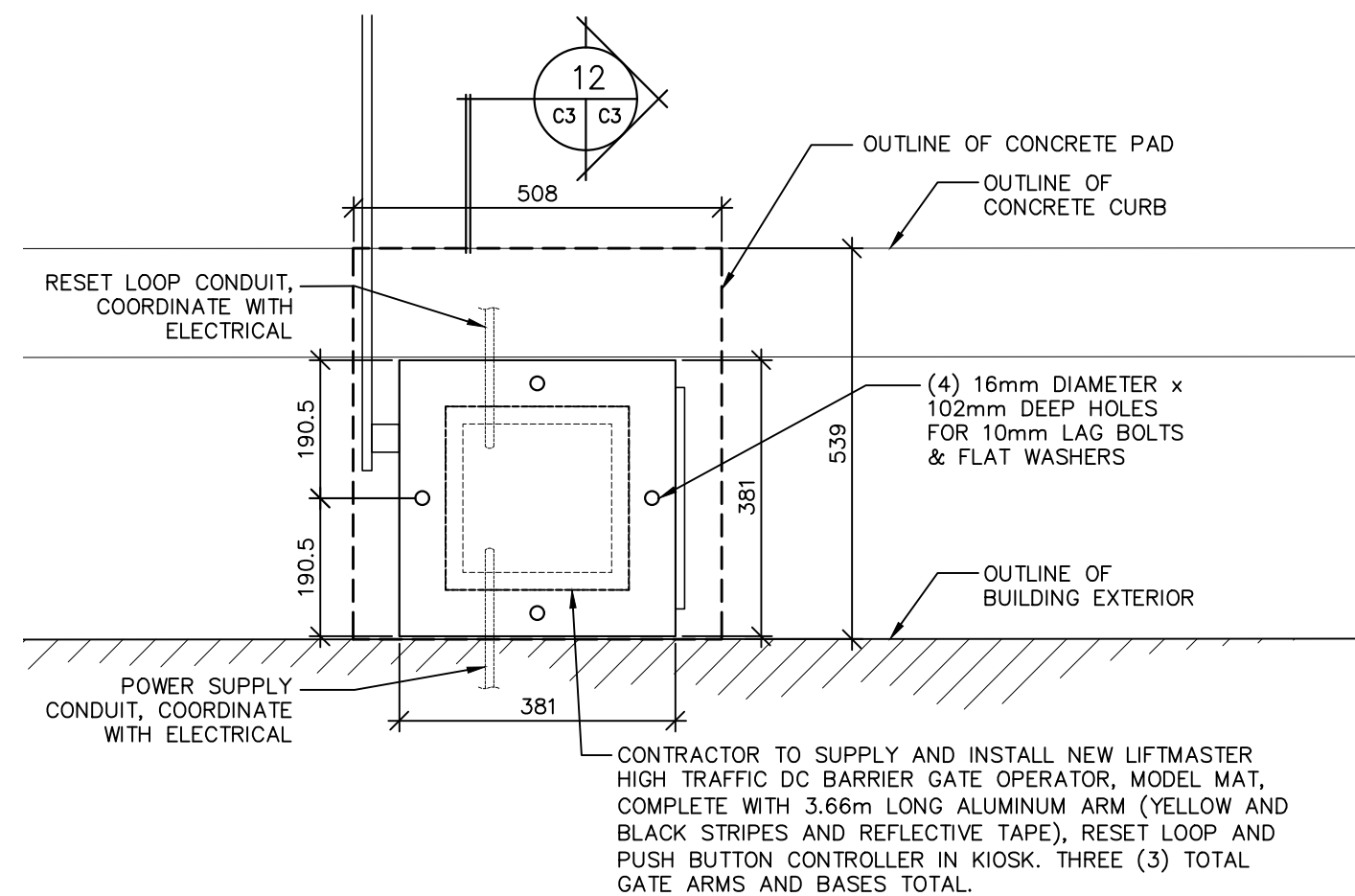
6 DETAIL: RIP RAP AT PIPE ENDS  
CS CS 1:10



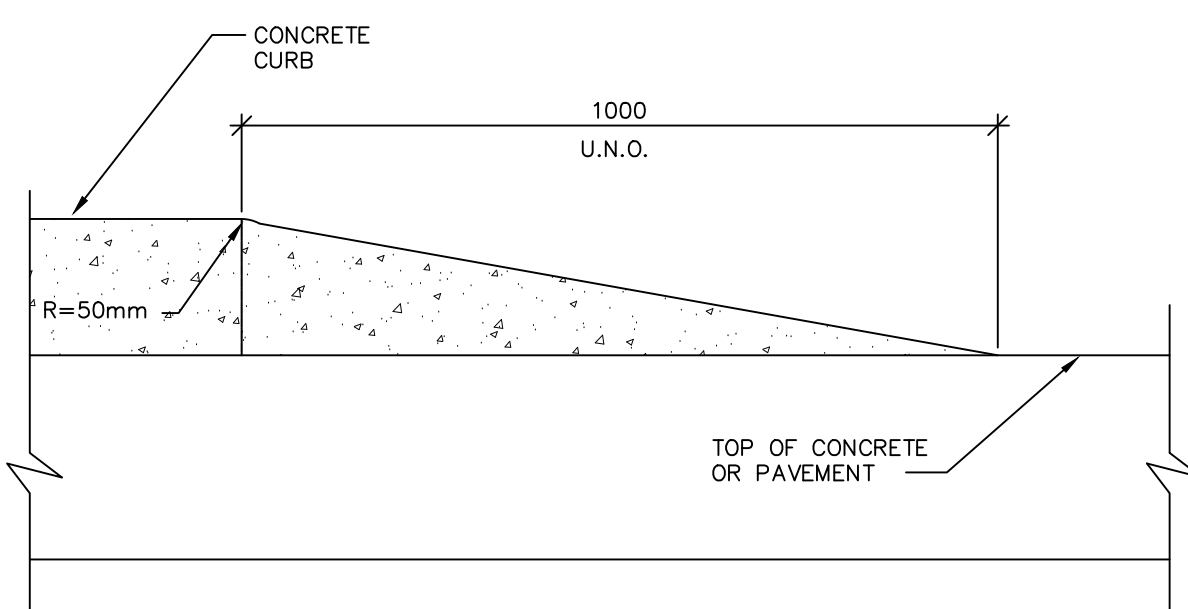
7 SECTION: CONCRETE BARRIER CURB  
CS CS 1:10



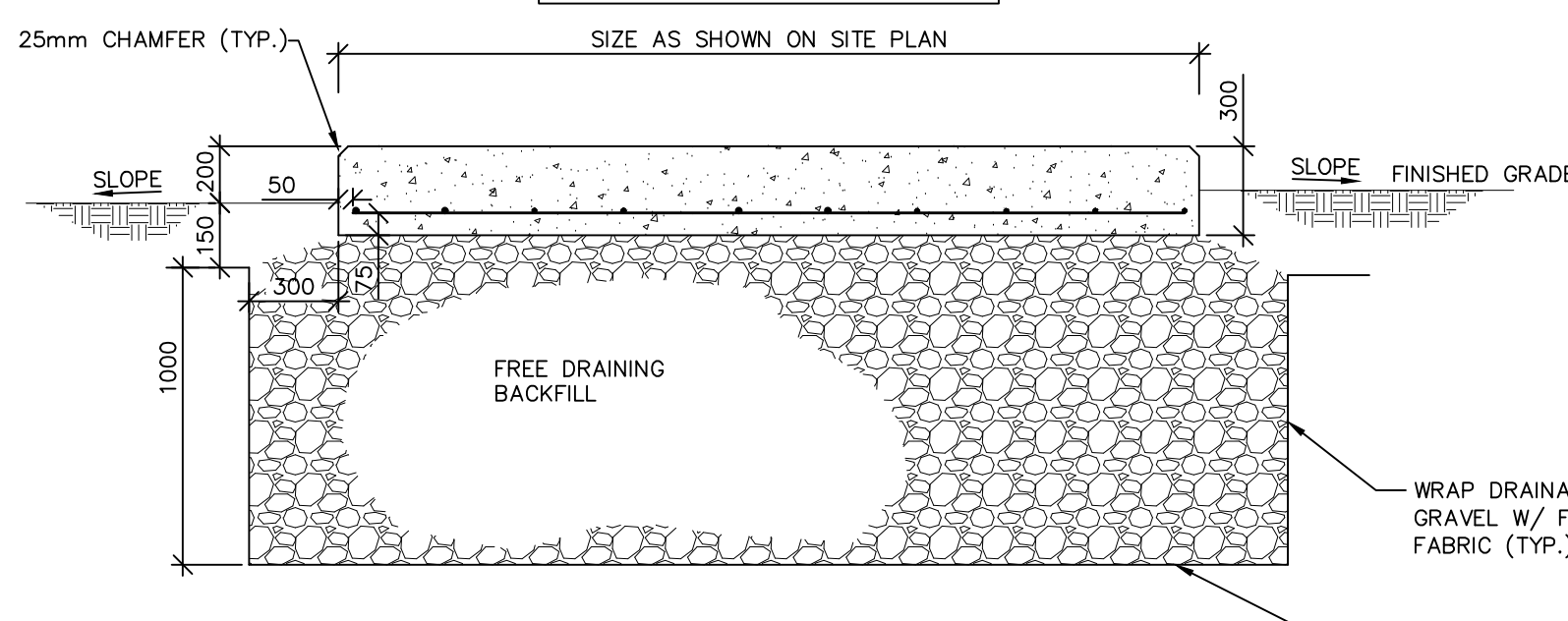
8 CONCRETE SIDEWALK PLAN  
CS CS 1:50



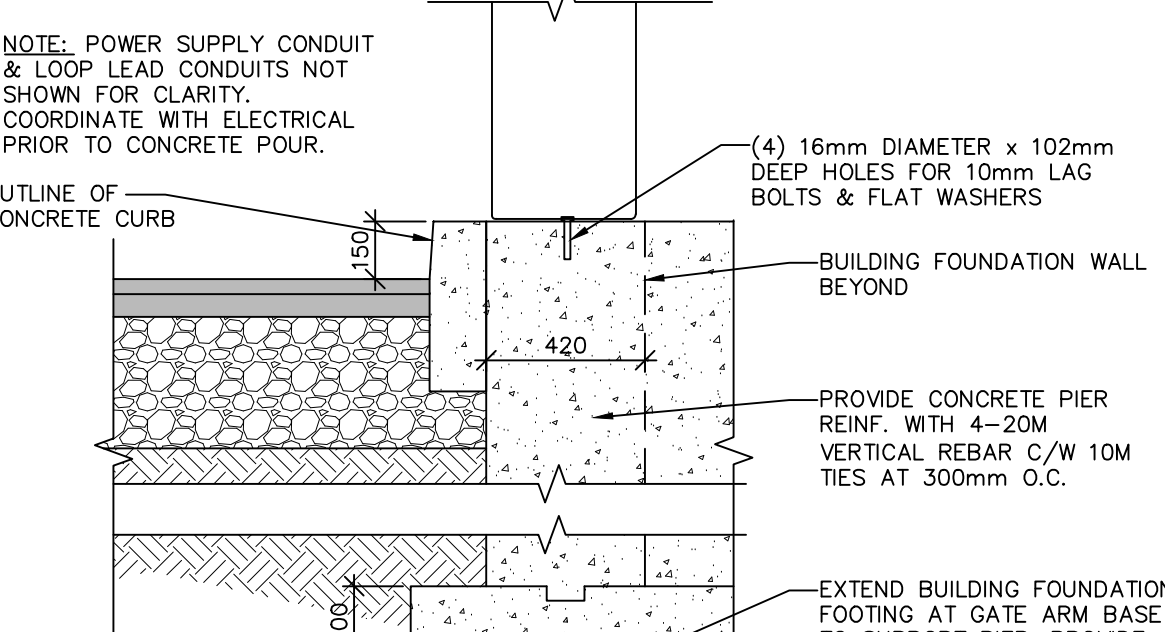
9 PLAN: GATE ARM BASE  
CS CS 1:10



10 DETAIL: END OF CONCRETE CURB  
CS CS 1:10



11 SECTION: TYPICAL CONCRETE PAD  
CS CS NTS



12 SECTION: GATE ARM BASE  
CS CS 1:20

## GENERAL NOTES:

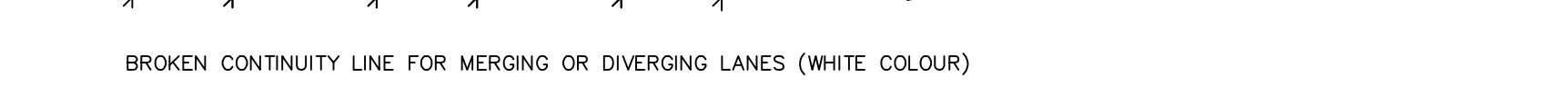
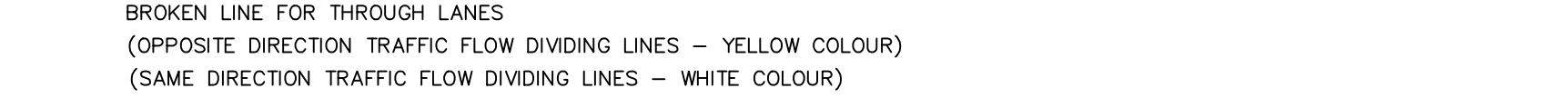
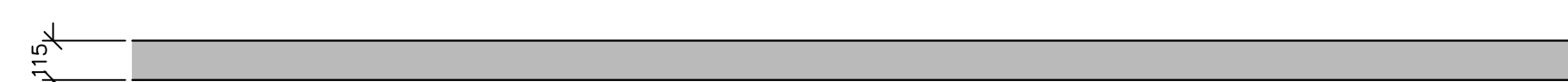
- CONTRACTOR MUST VISIT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS.
- VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS U.N.O.
- THESE DRAWINGS SHALL BE VIEWED IN CONJUNCTION WITH THE CONTRACT 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, 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 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, 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.

## 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)
  - POURED AGAINST THE GROUND - 75mm
  - FORMED SURFACE AGAINST GROUND - 50mm
  - 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 FINS, RIDGES AND OTHER PROJECTIONS FROM EXTERIOR FACE OF CONCRETE FOUNDATION WALLS TO PROVIDE SMOOTH SURFACE FOR INSTALLING DAMPROOFING.

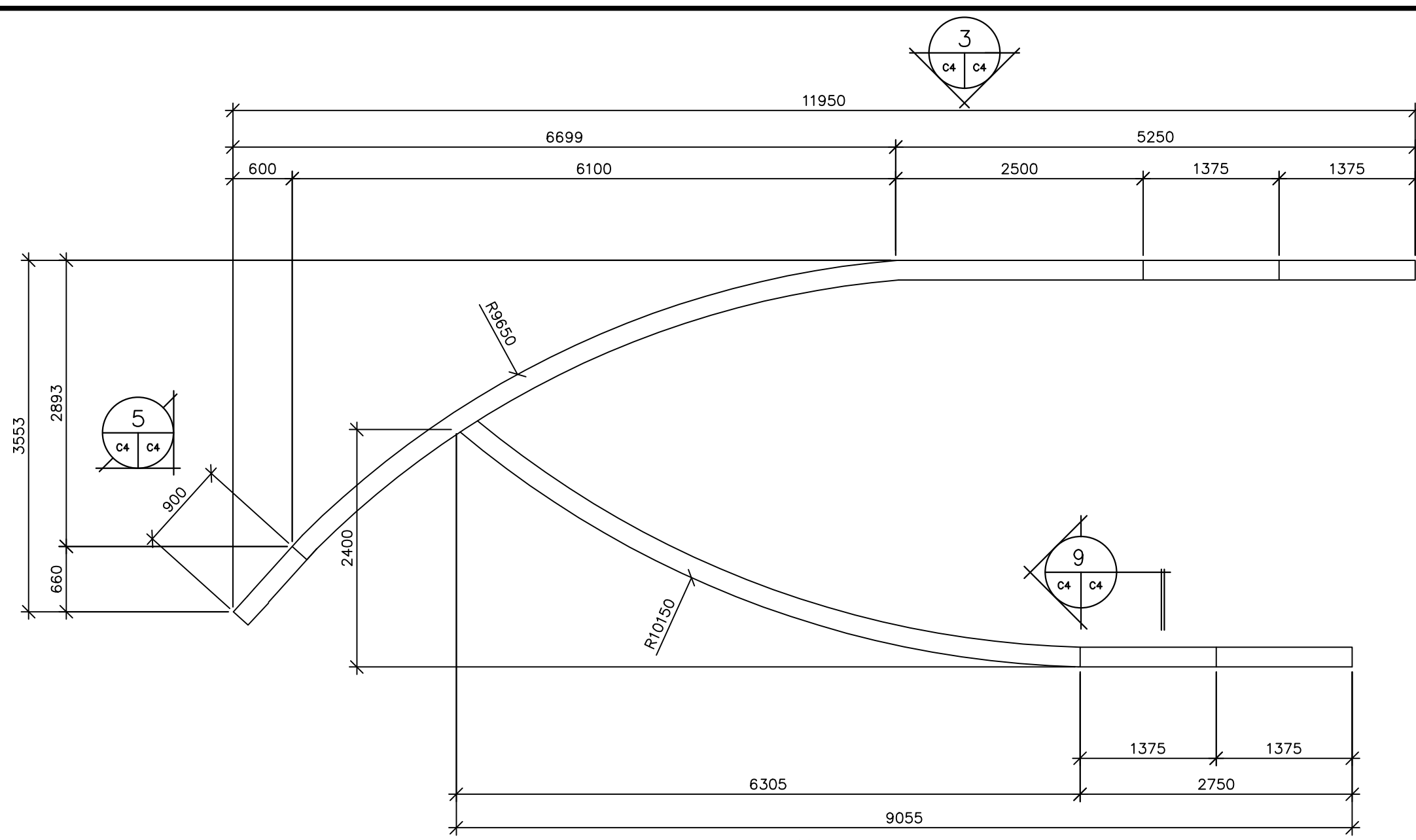


13 PAINTED LINE MARKINGS (TYP.)  
CS CS NTS

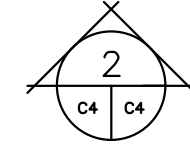
## ENVIRONMENTAL PROTECTION NOTES:

- 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 FENCING, 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.



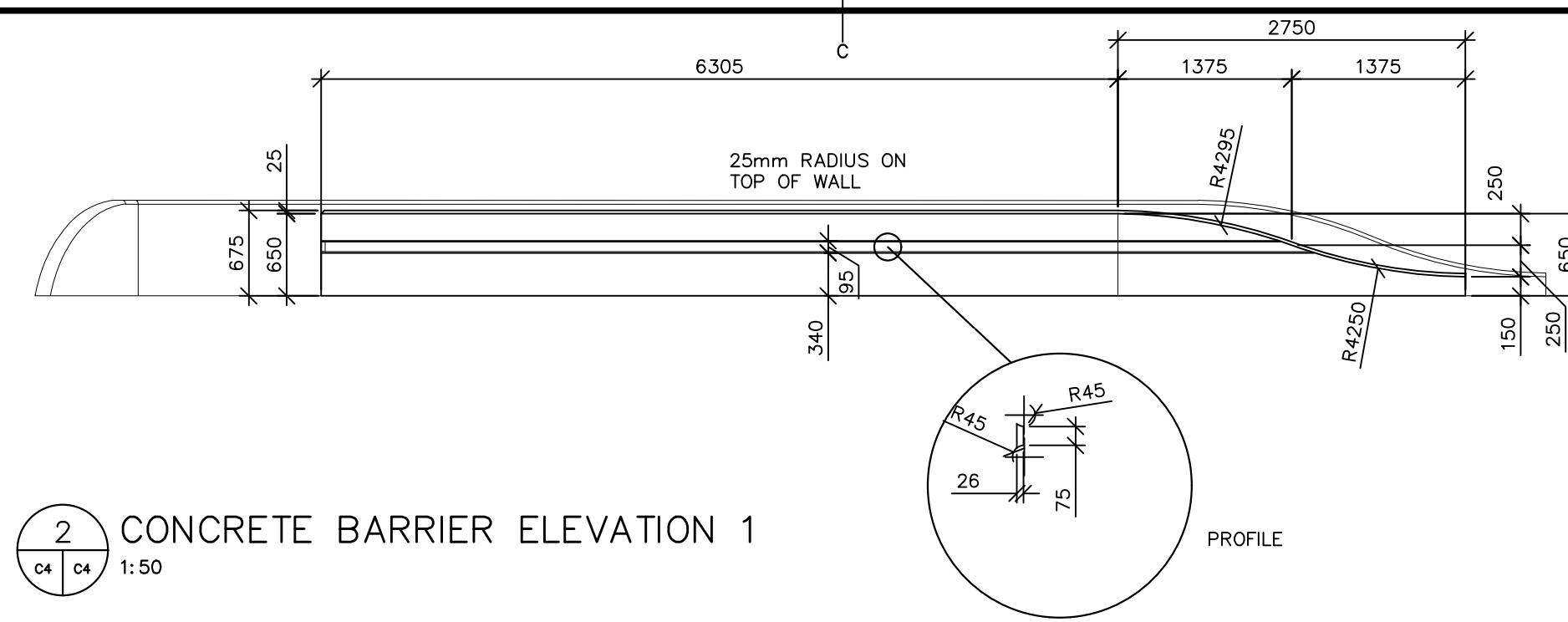


1 CONCRETE BARRIER PLAN  
C4 C4 1:50

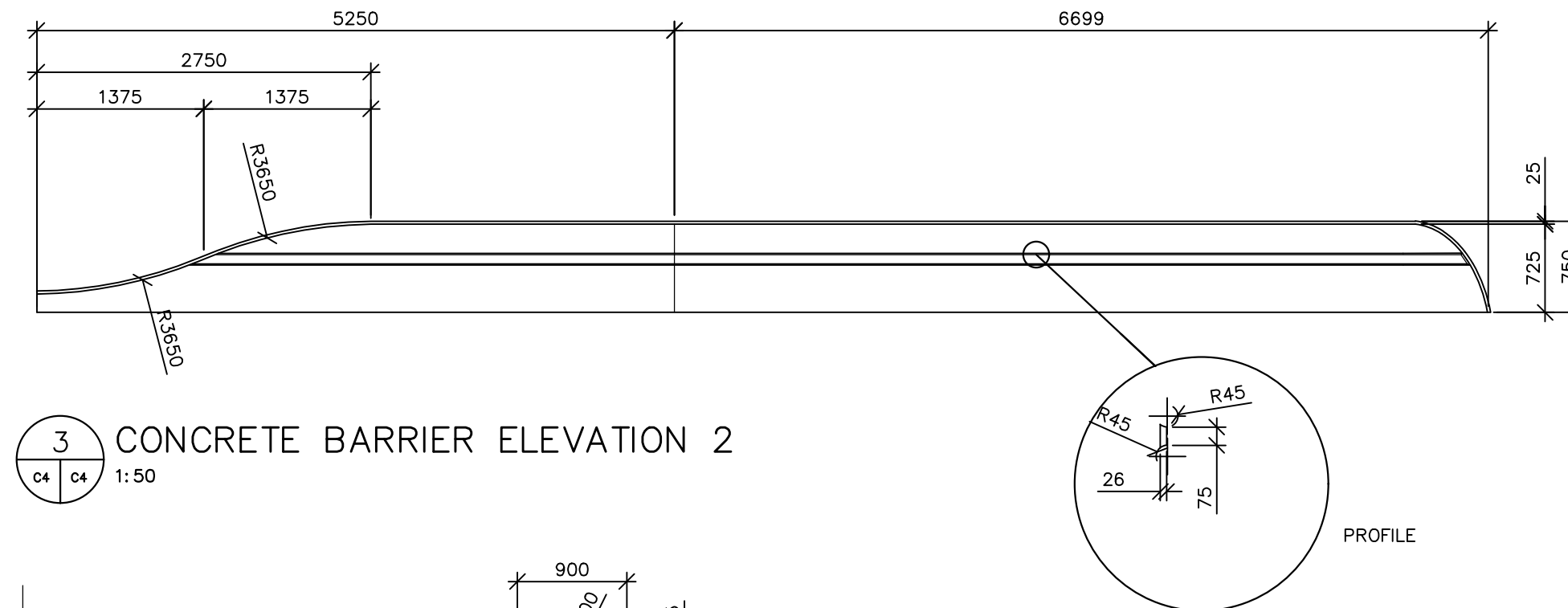


**CONCRETE BARRIER NOTES:**

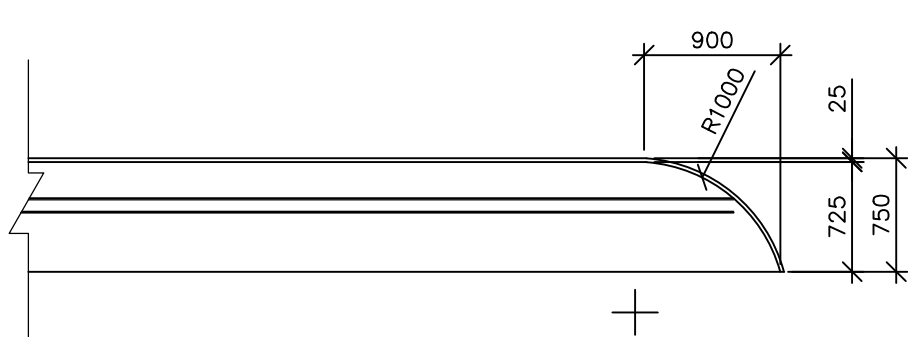
1. EXPOSED AGGREGATE SPECIFIC CONCRETE MIX SHALL BE USED FOR THE BARRIER CONCRETE MIX DESIGN.
2. CONTRACTOR TO UTILIZE VERTICAL SURFACE RETARDER (TOP-STOP VERTICAL BY W.R. MEADOWS, OR APPROVED EQUAL) ON CONCRETE FORMS BEFORE PLACEMENT OF CONCRETE.
3. CONTRACTOR TO APPLY CURING AND SEALING COMPOUND (CS-309-30 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.



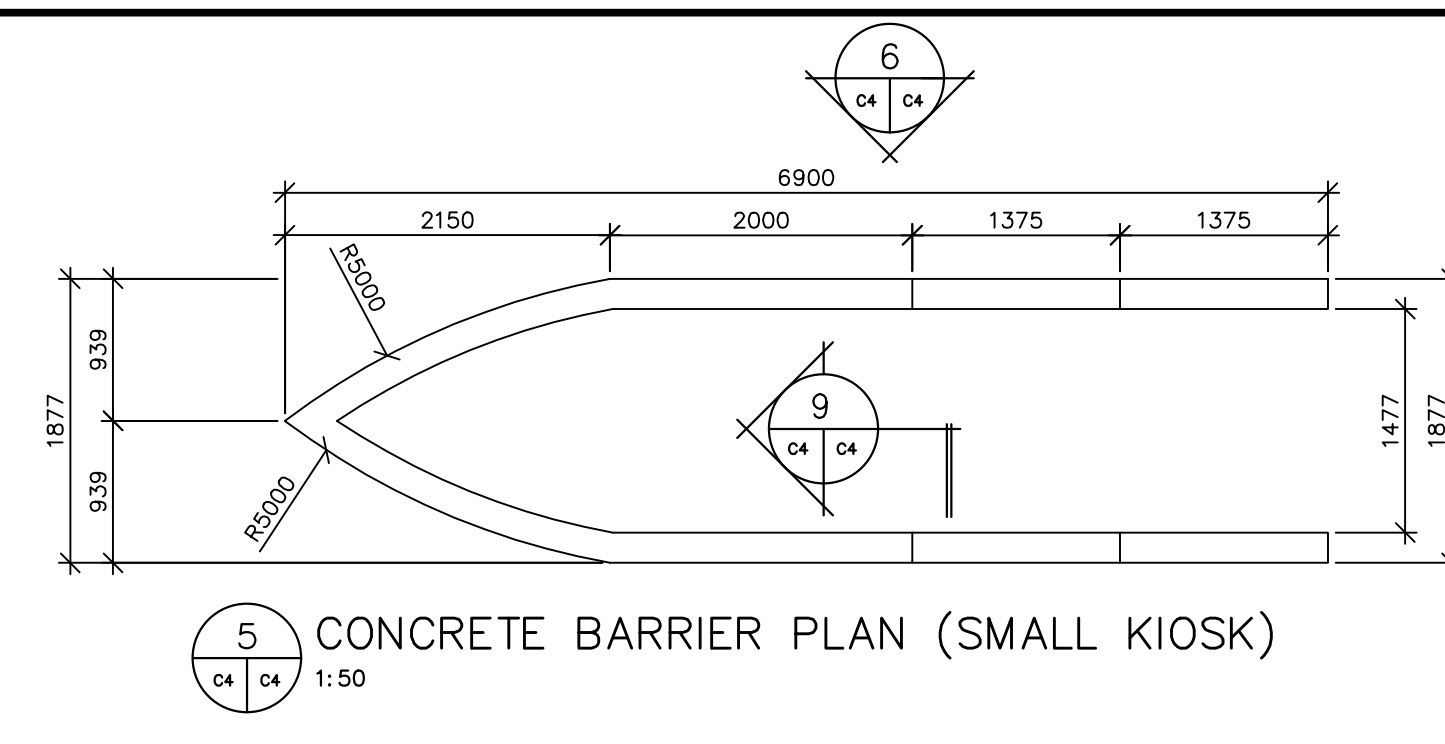
2 CONCRETE BARRIER ELEVATION 1  
C4 C4 1:50



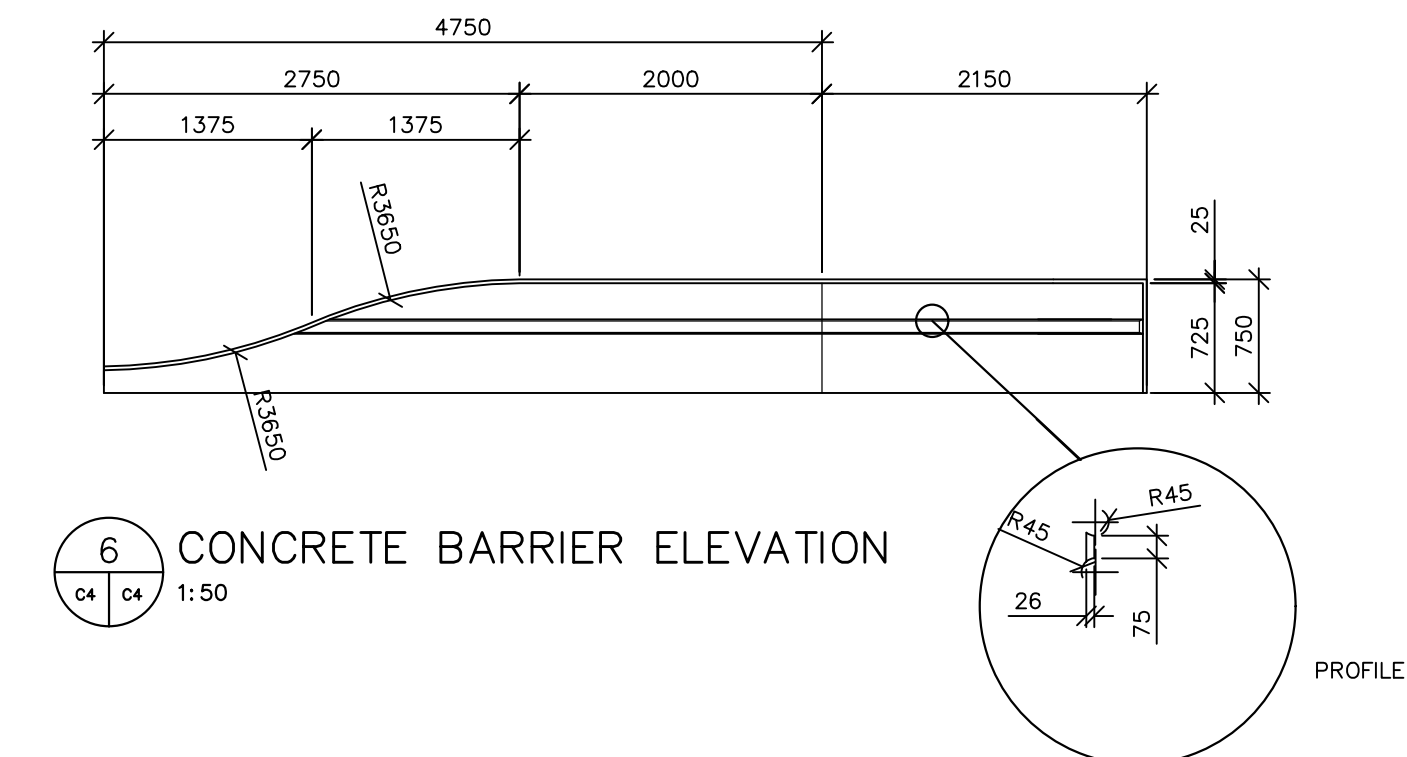
3 CONCRETE BARRIER ELEVATION 2  
C4 C4 1:50



4 CONCRETE BARRIER ELEVATION 3  
C4 C4 1:50

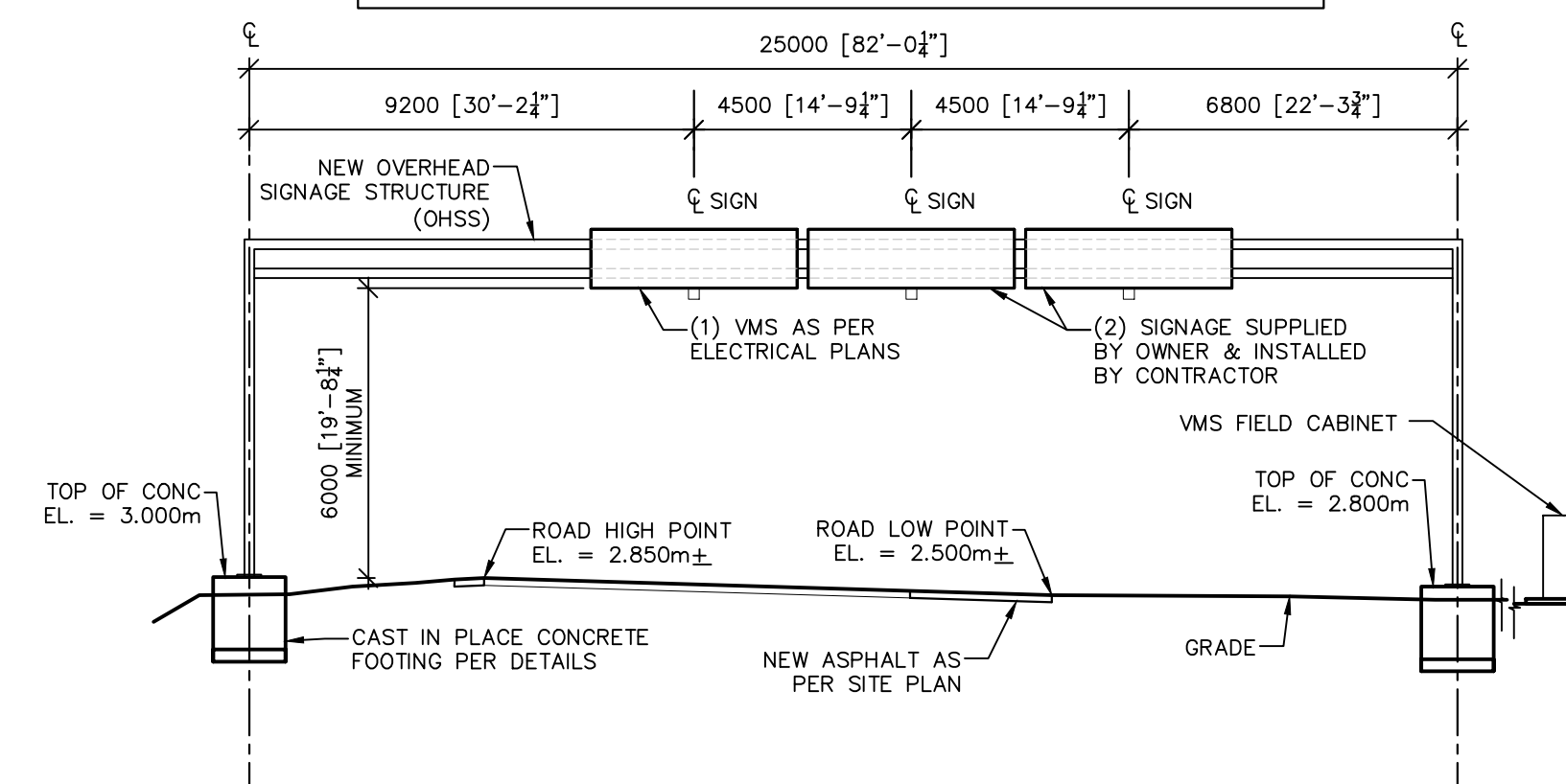


5 CONCRETE BARRIER PLAN (SMALL KIOSK)  
C4 C4 1:50

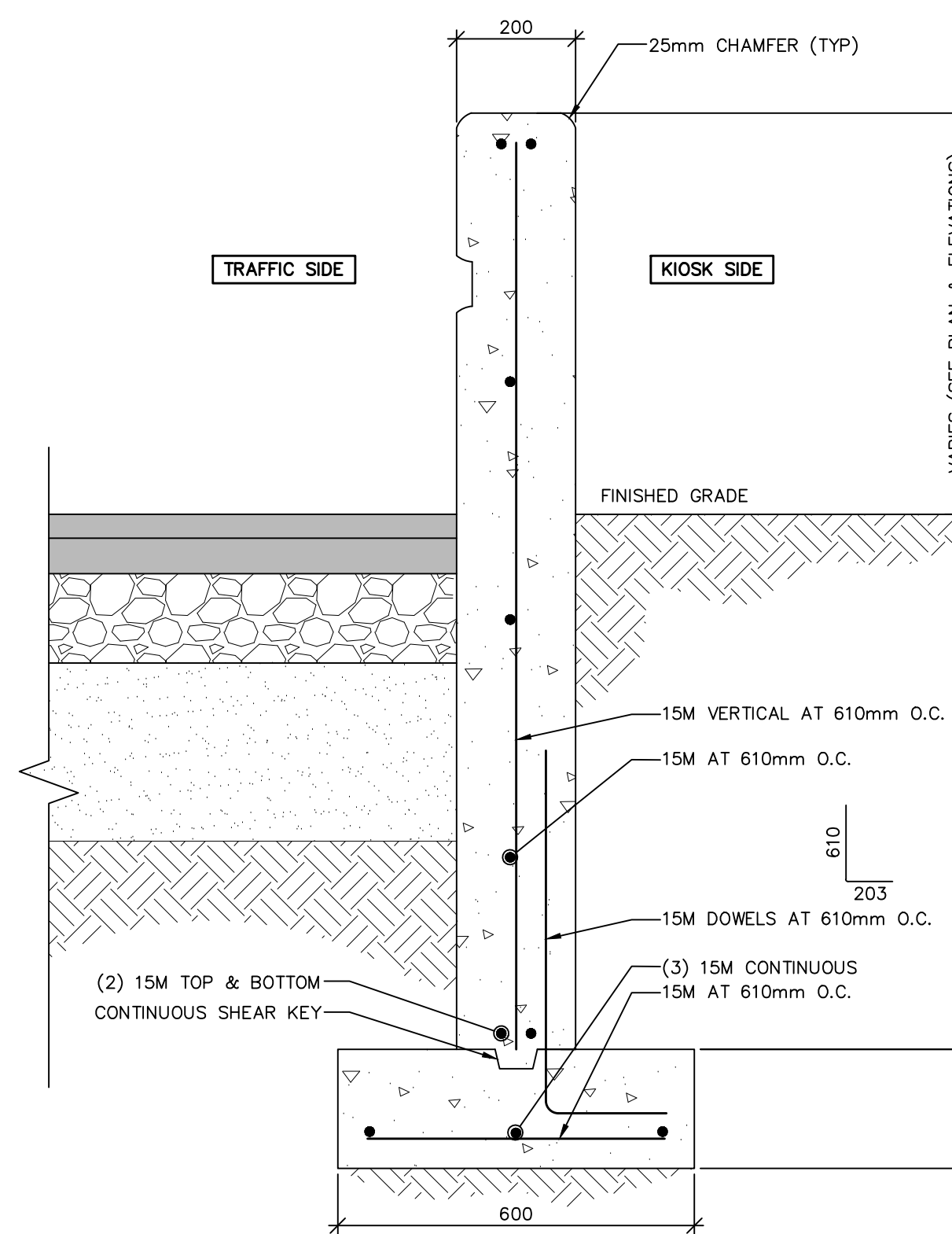


6 CONCRETE BARRIER ELEVATION  
C4 C4 1:50

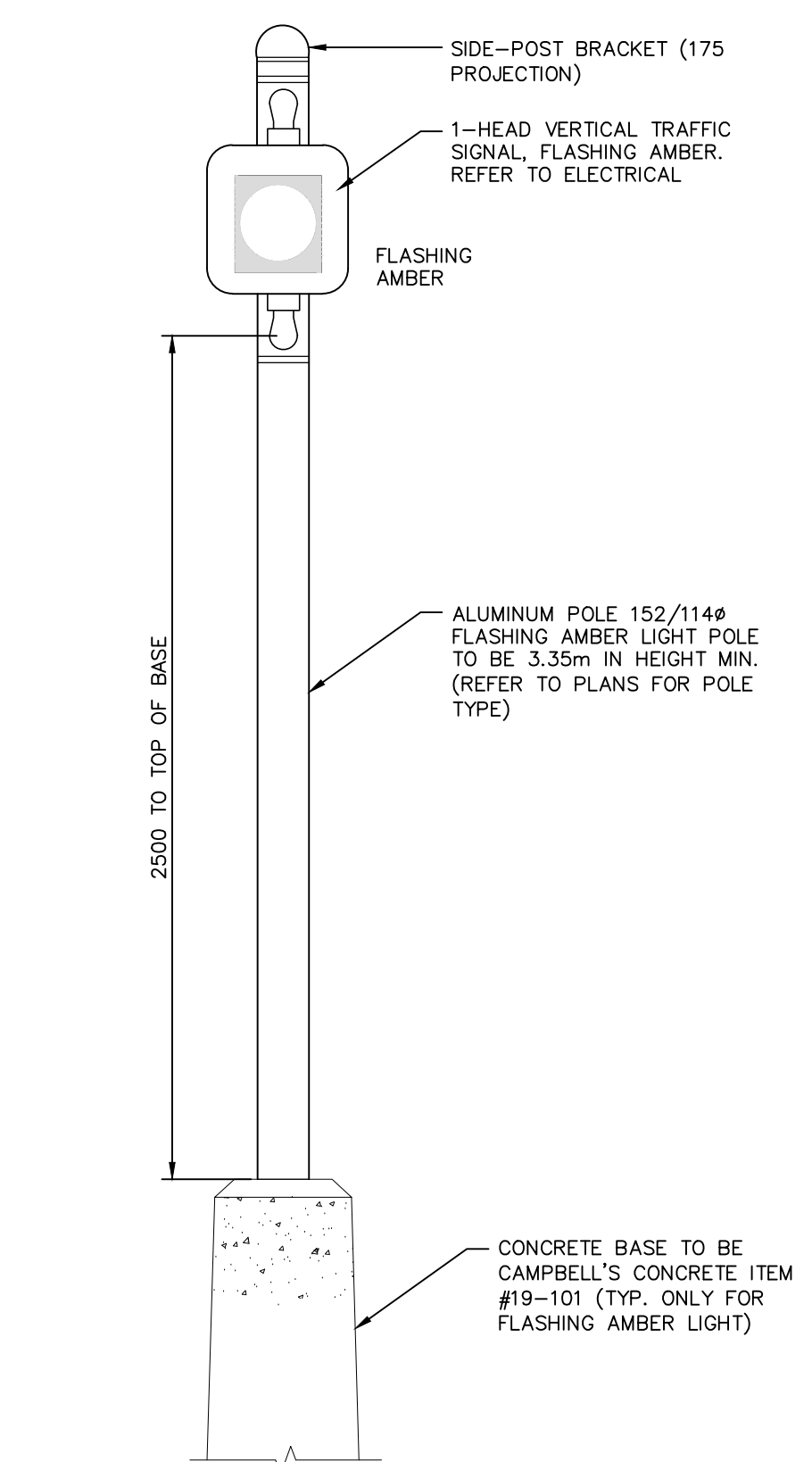
- OHSS NOTES:**
1. DESIGN AND CONSTRUCTION OF OHSS SHALL MEET CAN/CSA S157-05.
  2. VMS UNIT IS 1.219m WIDE x 4.267m LONG x 0.406m THICK AND WEIGH 100LBS MAX. COORDINATE WITH FINAL VMS SHOP DRAWINGS AND CONFIRM LOADING WITH CONSULTANT PRIOR TO FABRICATION.
  3. ALL VMS MOUNTING HARDWARE SHALL BE SUPPLIED BY THE GENERAL CONTRACTOR. COORDINATE WITH VMS SUPPLIER SHOP DRAWINGS.



7 ELEVATION: OHSS  
C4 C4 1:150



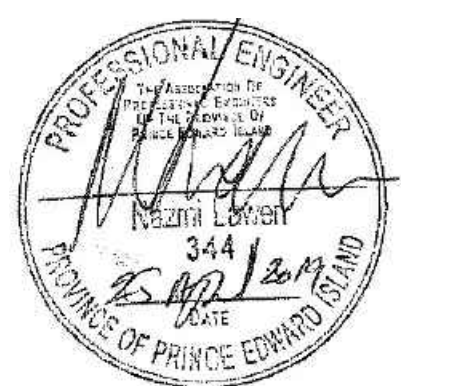
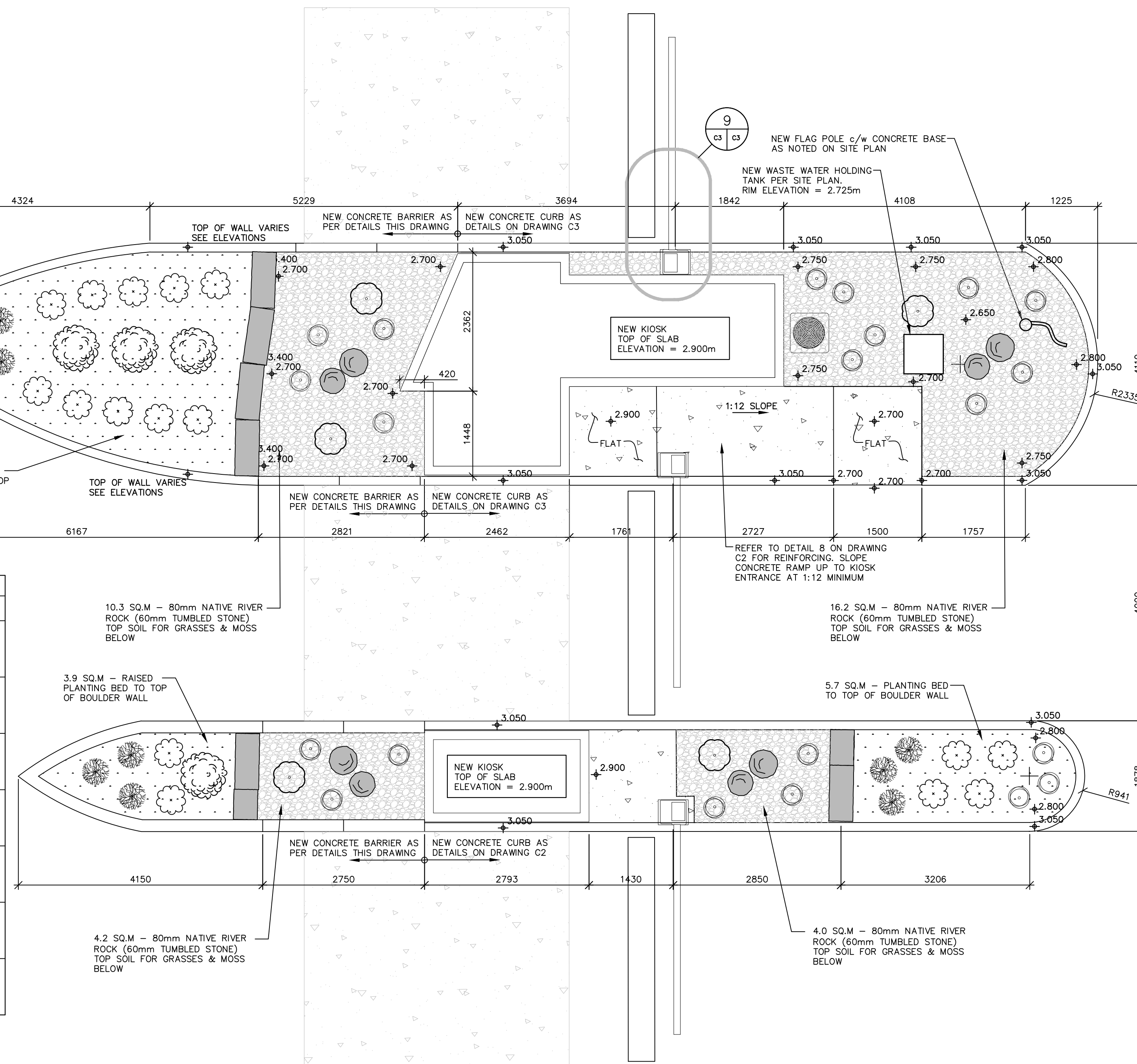
9 CONCRETE BARRIER SECTION  
C4 C4 1:10



10 DETAIL: FLASHING AMBER BASE  
C4 C4 1:20

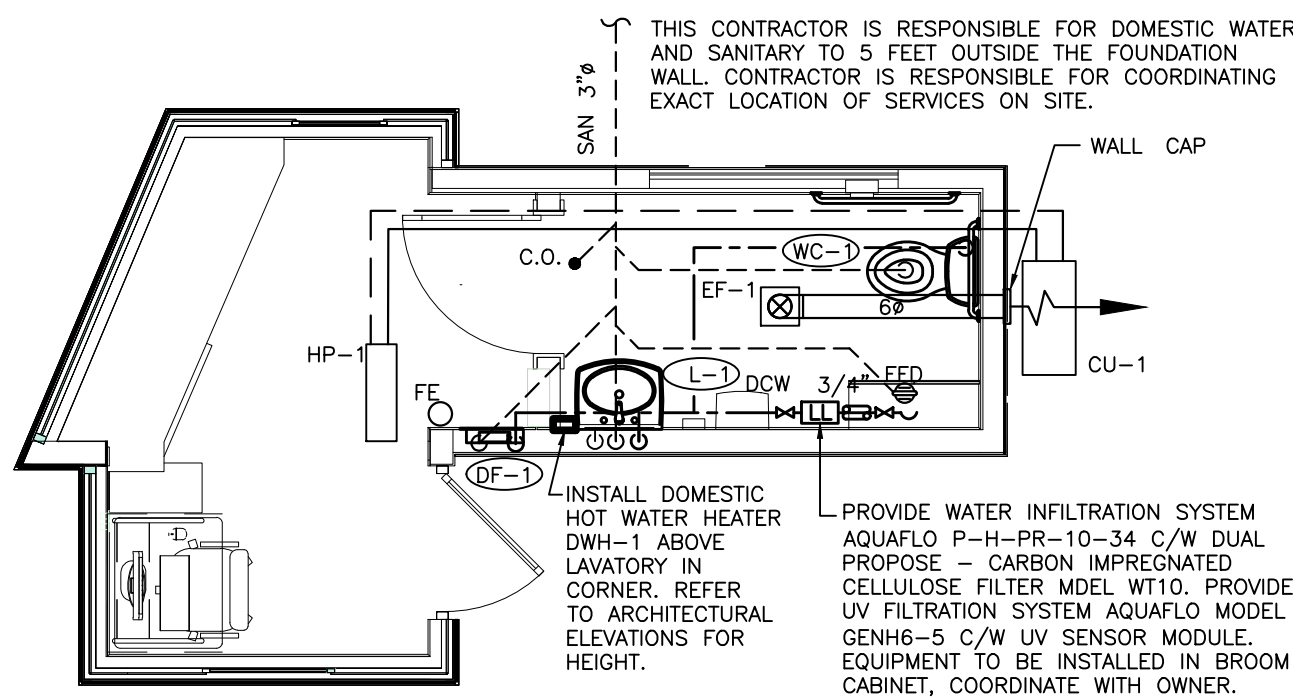
LANDSCAPE SCHEDULE		
SYMBOL	DESCRIPTION	QUANTITY
	COMMON JUNIPER (2 GALLON)	16
	TUFTED HAIR GRASS (1 GALLON)	21
	PRAIRIE CORD GRASS (1 GALLON)	9
	RED TWIG DOGWOOD (3 GALLON)	4
	NATIVE RED SANDSTONE BOULDER WALL 3 COURSE AT 700mm	11 METERS
	DECORATIVE RED SANDSTONE BOULDER (300-600mm ROUNDED)	8
	RUSTIC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

8 LANDSCAPE PLAN  
C4 C4 1:50



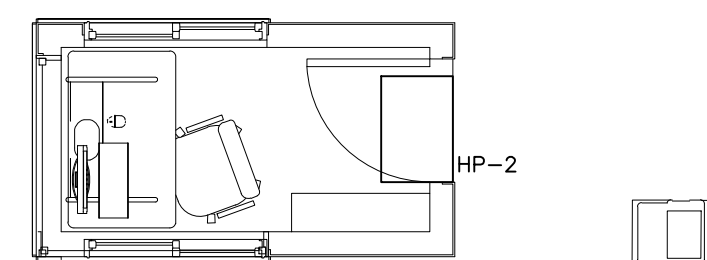
0	ISSUED FOR TENDER	04/25 2019
revisions		date
project	PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH, PE	
drawing	desain	
SITE DETAILS & NOTES		
designed	SPM, E.I.T.	conçu
date	April 2019	
drawn	SPM, E.I.T.	dessiné
date	April 2019	
approved	NL, P.Eng	approuvé
date	April 2019	
Tender	Soumission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





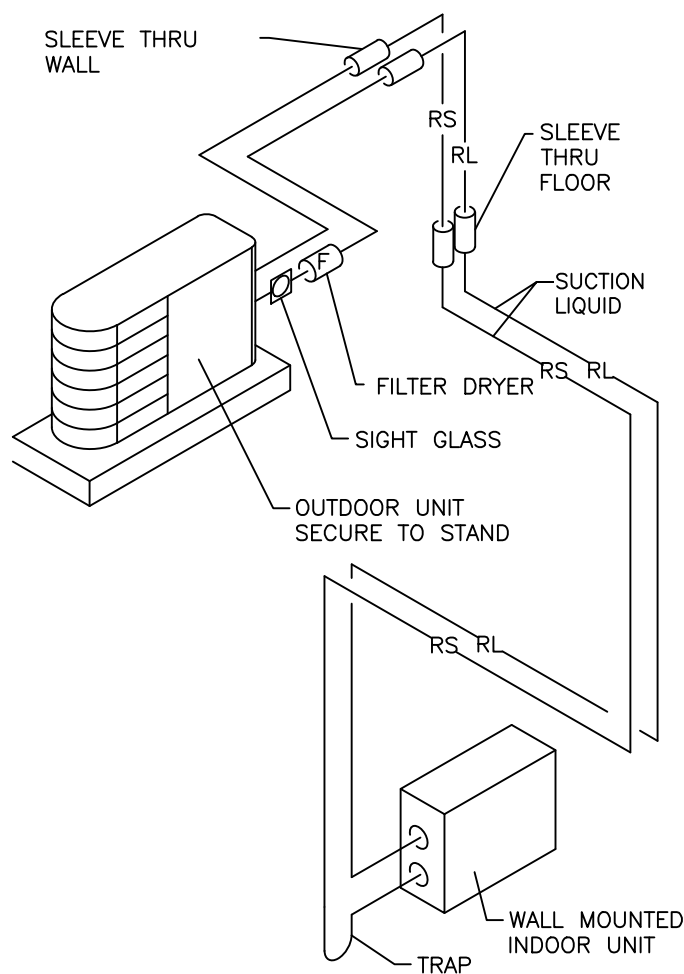
MECHANICAL PLAN LARGE KIOSK

SCALE : 1:50



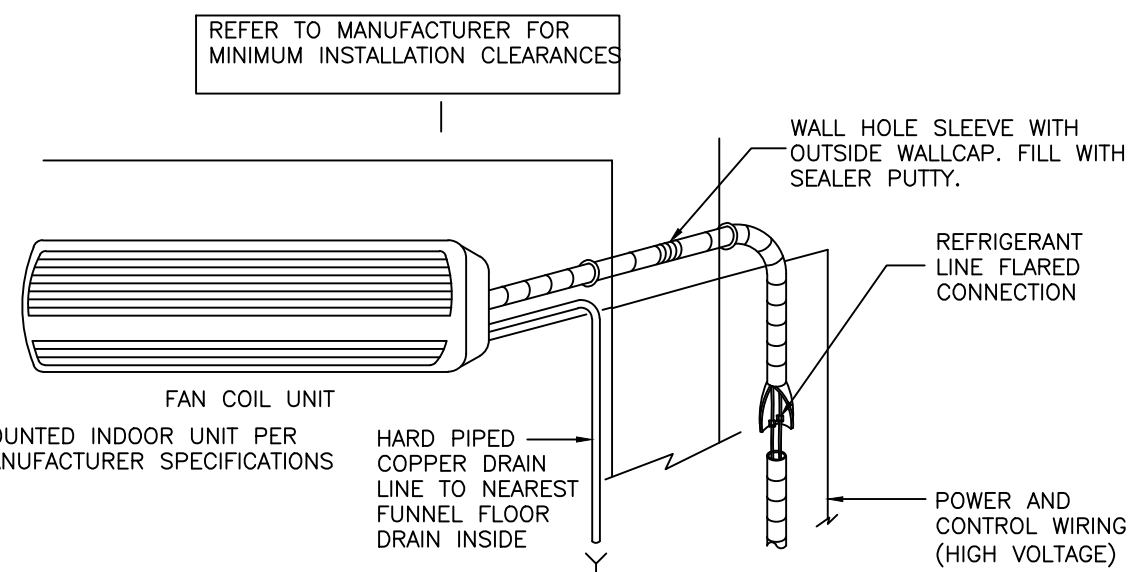
MECHANICAL PLAN SMALL KIOSK

SCALE : 1:50



MINI SPLIT PIPING DETAIL

SCALE : N.T.S.



MINI SPLIT INDOOR DETAIL

SCALE : N.T.S.

MINI SPLIT HUNG CONDENSOR DETAIL

SCALE : N.T.S.

GENERAL NOTES:

- 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, IT'S 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 PRODUCT DATA FOR ENGINEER'S REVIEW.  
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  
1.11.2.3. 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.  
1.13. 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 THIS 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: MANSION ALLEY K APT, OWENS CORNING, OWENS CORNING VAPOURKOR, 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.  
2.1.3. INSULATION IS NOT REQUIRED FOR 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 SCOR-KRAFT VAPOUR JACKET ON ALL EXHAUST DUCTWORK 10 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".  
3.2.1. DRAINAGE AND VENTS - TYPE L COPPER  
3.2.2. WATER ABOVE GRADE - TYPE L COPPER  
3.3. HANGERS  
3.3.1. GLEYS TYPE WITH THREADED RODS.  
3.4. SPECIALTIES  
3.4.1. FUNNEL FLOOR DRAINS  
3.4.1.1. ZURN #2N4518F  
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  
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.

EXPANSION TANK SCHEDULE							
MARK	MAKE	MODEL	VOLUME LITRES	ACCEPT LITRES	DIMENSIONS (mm) LENGTH DIA.	CONNECTIONS	REMARKS
ET-1	AMTROL	WX-202	76	43	80 381	NPS 1	WELL PRESSURE TANK

HEAT PUMP UNIT SCHEDULE							
UNIT NO.	MANUFACTURER	MODEL	LOCATION	SUPPLY FAN LPS	ESP. in. w.c.	NOMINAL COOLING CAP. kW	ELECTRIC MCA AMPS
HP-1	DAIKIN	ASURRLS3	WORKSTATION	231	-	2.6	14.4
CU-1	DAIKIN	ADURRLS3H	WORKSTATION				
HP-2	FRIGIDAIRE	FFRH0822R1	WORKSTATION	127	-	2.3	12

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. Pa	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-WHEU6SS	23	26	1.5	120V/1PH/60	MOUNT NEAR CEILING HEIGHT C/W WALL MOUNTING BRACKETS, BOTTOM DRAIN

1/M1 DRAWING LEGEND

○ FE WALL MOUNTED 10 LB FIRE EXTINGUISHER

1/M1 PLAN NOTES:

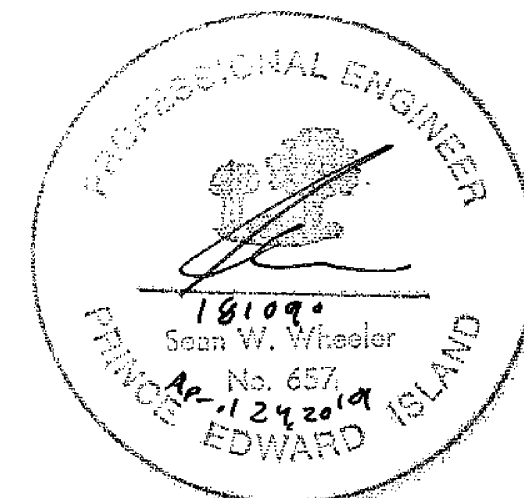
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH N.B.C.C., N.F.P.A. AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
- THIS CONTRACTOR SHALL PROVIDE FULLY FUNCTIONAL MINI-SPLIT HEAT PUMP INSTALLATIONS, INCLUDING THE SUPPLY AND INSTALLATION OF THE HEAT PUMP AND LISTED ACCESSORIES AND EQUIPMENT AS PER THE MANUFACTURERS 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 CDW 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 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.
- 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 MANUFACTURERS RECOMMENDATIONS.
- PROVIDE TRAP PRIMER FUNNEL FLOOR DRAIN AS REQUIRED BY NPC AND AHI.
- ALL DOMESTIC PIPE SIZES SHOWN ARE BASED ON STANDARD COPPER PIPE.



0 ISSUED FOR TENDER 04/24 2019

revisions project date  
PARKS CANADA AGENCY  
ENTRANCES & KIOSKS  
BRACKLEY BEACH  
BRACKLEY, PE

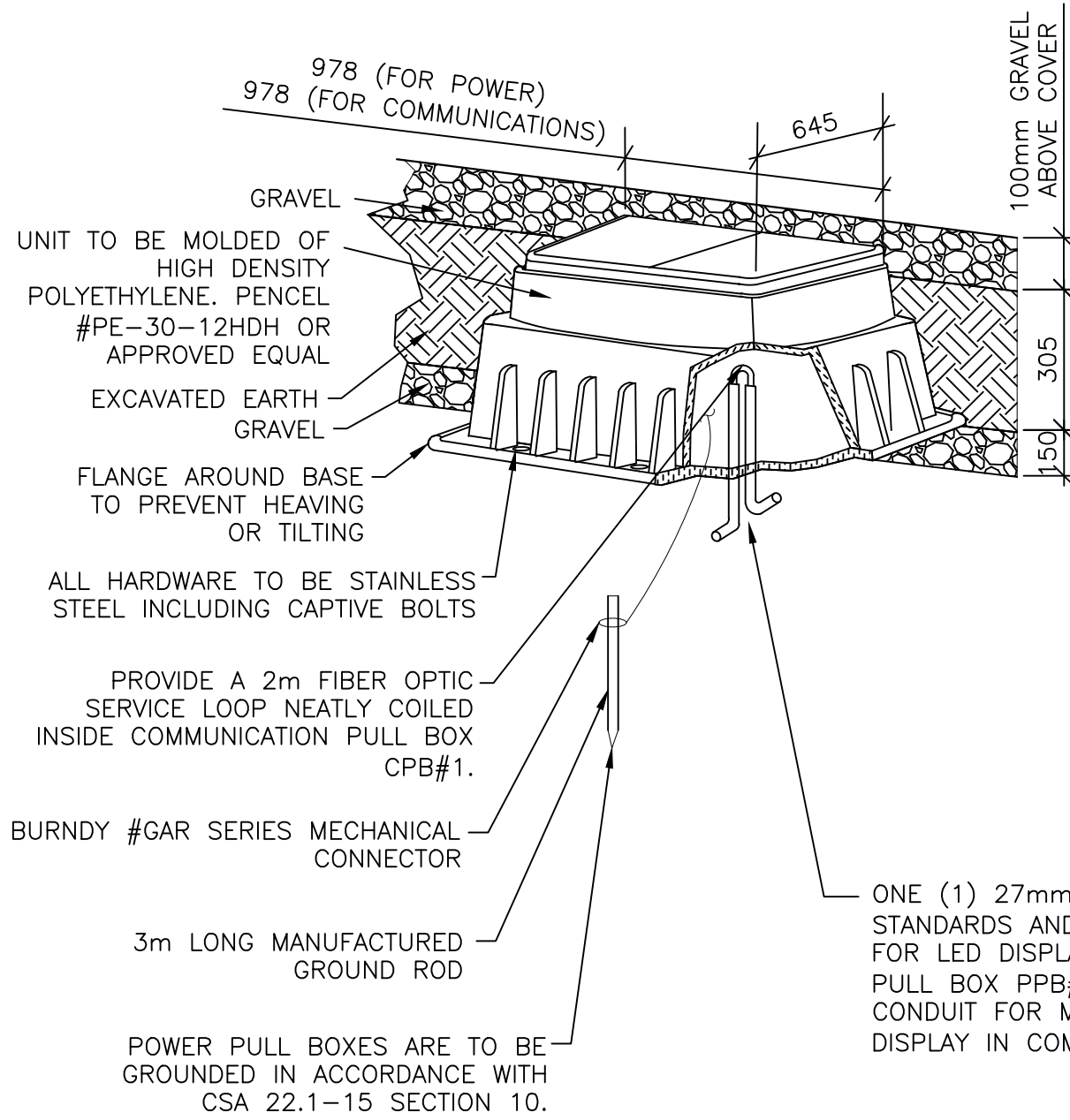
drawing design  
MECHANICAL PLANS,  
DETAILS, AND  
SCHEDULES

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 Soumission  
PWSC Project Manager Administrateur de projets TPSC  
project number no. du projet  
181090  
drawing no. no. du dessin  
M1



# DETAIL NOTES

1. PREPARE THE EXCAVATION APPROXIMATELY 250mm DEEPER THAN THE OVERALL HEIGHT OF THE ENCLOSURE. THE LENGTH AND WIDTH OF THE EXCAVATION SHOULD BE DETERMINED BY ADDING 152mm ONTO THE OVERALL LENGTH AND WIDTH OF THE IN-GROUND PULL BOX.
2. PLACE APPROXIMATELY 152mm OF COMPACTED GRAVEL IN THE BOTTOM OF THE HOLE. THE GRAVEL SHOULD BE LEVELED SO THE TOP OF THE PULL BOX IS FLUSH TO THE GRADE.
3. PLACE SELECTED BACKFILL INTO THE EXCAVATION AT 305mm LIFT AND COMPACT. INSTALL PULL BOX WITH COVER IN PLACE.



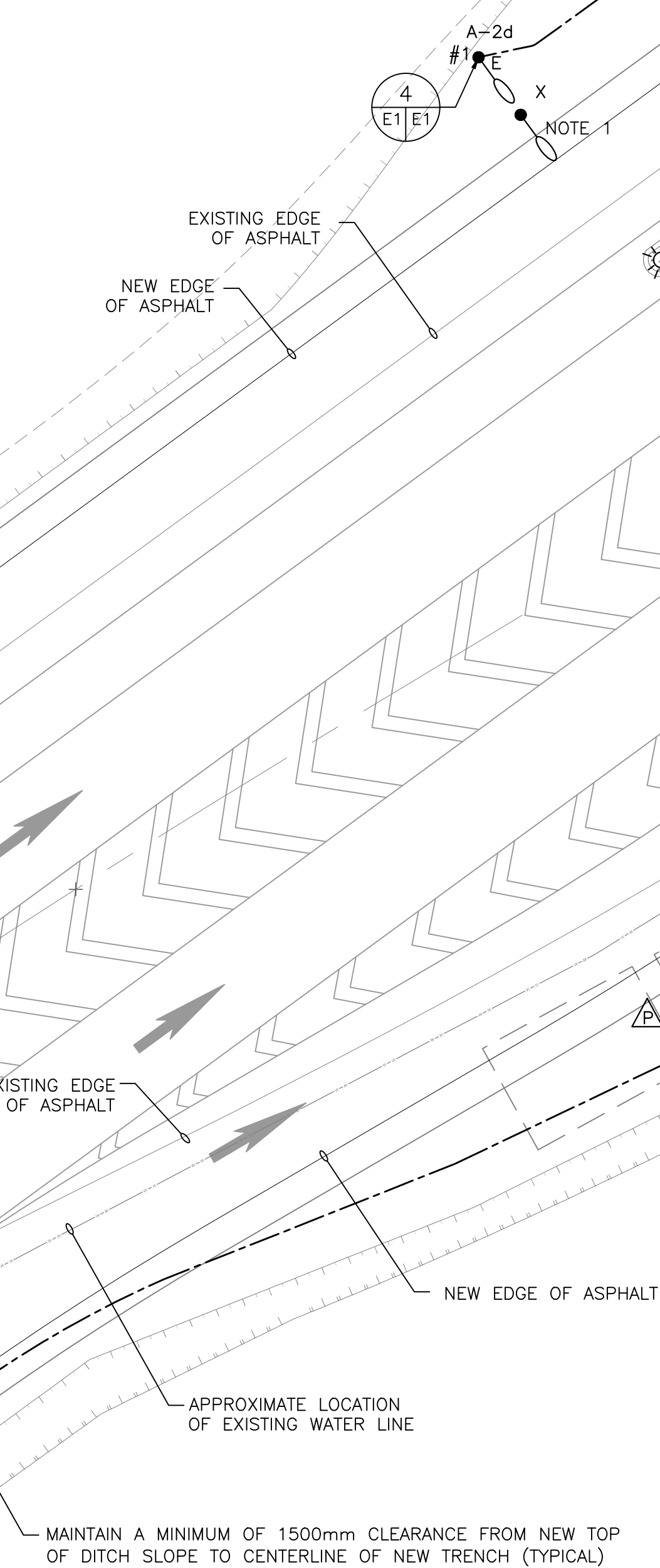
## RECESSED PULL BOX (TYPICAL)

SCALE : N.T.S.

5  
E1 E1

ELECTRICAL LEGEND	
	DUPLUX RECEPTACLE
	QUAD RECEPTACLE
RECEPTACLE SUB SCRIPTS:	
20	INDICATES CSA TYPE 5-20R
WP	INDICATES RECEPTACLE GFCI C/W WEATHER PROOF WHILE IN-USE COVER
G	INDICATES GFI RECEPTACLE
	ELECTRICAL PANEL, RECESSED MOUNTED
'A'	INDICATES PANEL DESIGNATION
	SINGLE PHASE MOTOR
	DISCONNECT SWITCH
	DIRECT CONNECTION
	FLASHING AMBER LIGHT
	LUMINAIRE, SUSPENDED OR SURFACE MOUNTED
#	INDICATES TYPE IN LUMINAIRE SCHEDULE
	LUMINAIRE, WALL MOUNTED
#	INDICATES TYPE IN LUMINAIRE SCHEDULE
	LIGHT STANDARD
#	INDICATES LIGHT STANDARD DESIGNATION NUMBER
	SINGLE POLE SWITCH
	PIR OCCUPANCY SENSOR WALL SWITCH, 120V
	PHOTOCCELL
	POWER ASSISTED DOOR PUSH BUTTON
	POWER ASSISTED DOOR OPENER
	ACCESS CONTROLLED MAINTAINED SWITCH
	PUSH BUTTON

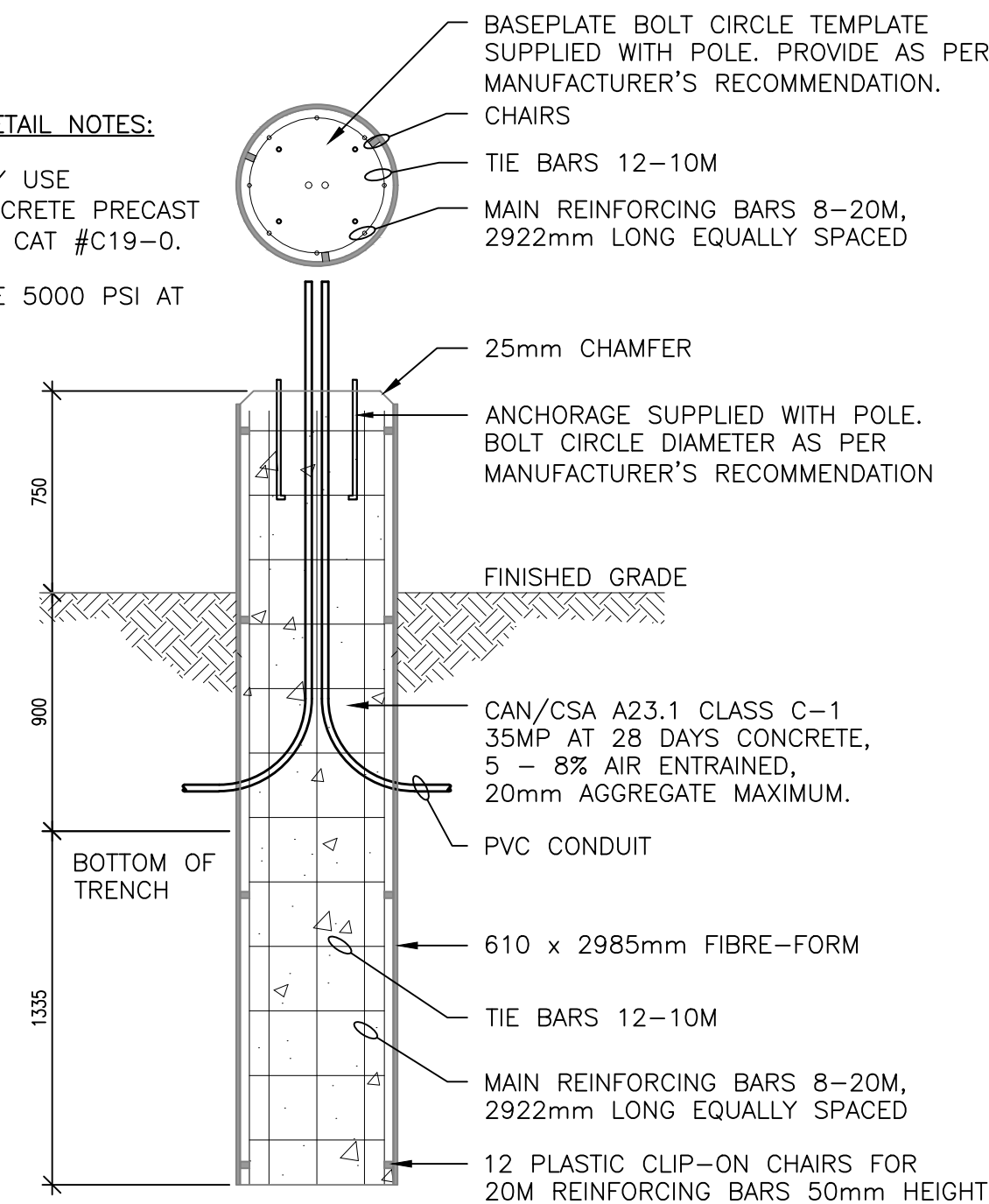
GENERAL LEGEND	
	LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
	HEAVY LINEWEIGHT INDICATES NEW WORK
	UNDERGROUND WIRING
	LOW VOLTAGE WIRING
	WIRING UP
	WIRING DOWN
	CONDUIT STUB
	GROUND ROD
A-10a	INDICATES CIRCUIT #10 IN PANEL 'A'
o	INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS
GENERAL SUB SCRIPTS	
3R	INDICATES NEMA 3R ENCLOSURE
X	INDICATES EXISTING TO BE REMOVED



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.

### LIGHT STANDARD DETAIL NOTES:

1. CONTRACTOR MAY USE CAMPBELL'S CONCRETE PRECAST CONCRETE BASE: CAT #C19-0.
2. CONCRETE TO BE 5000 PSI AT 28 DAYS.



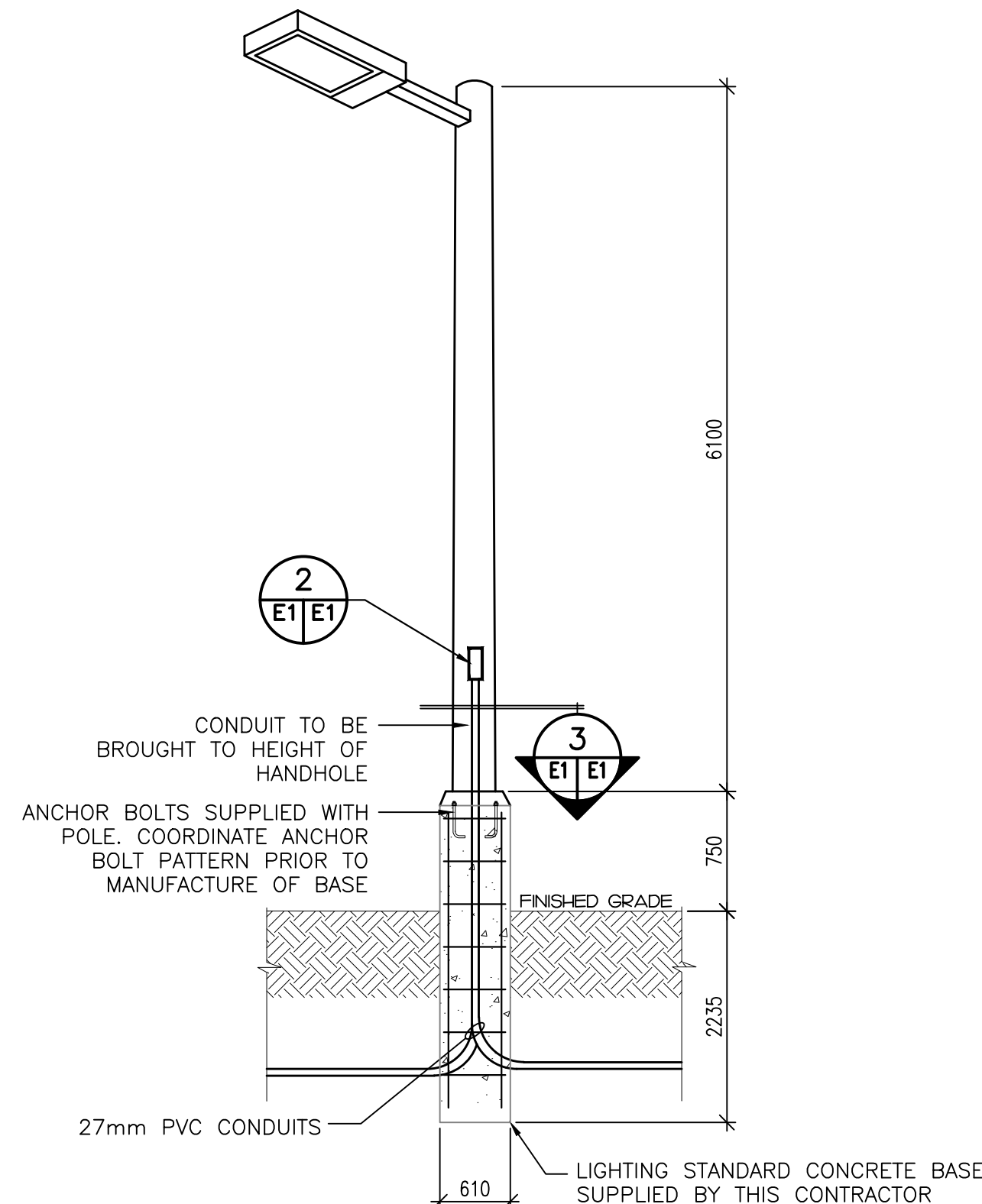
### DETAIL: SITE LIGHTING BASE

SCALE : N.T.S.

3  
E1 E1

### NOTES:

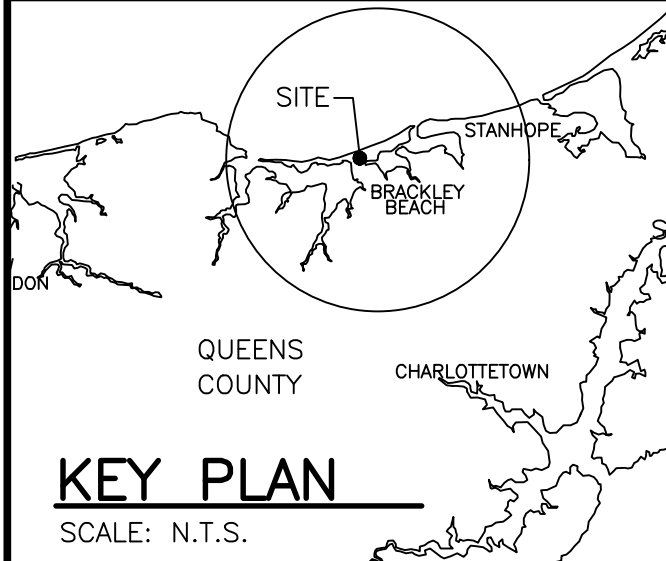
1. TRACE OUT, DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING AND ALL ASSOCIATED CONDUIT FROM LIGHT STANDARD BACK TO SOURCE. REMOVE AND DISPOSE EXISTING LIGHT STANDARD AND LIGHT STANDARD CONCRETE BASE.
2. PREFORMED, 1.8m x 1.8m, HIGH TEMPERATURE RATED INDUCTIVE LOOP FOR PERMANENT INSTALLATION UNDER ASPHALT C/W 30m LEAD WIRE AS REQUIRED. ACCEPTABLE MANUFACTURER: INTERNATIONAL ROAD DYNAMICS INC. OR APPROVED EQUAL. INSTALL INDUCTIVE LOOP IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. REMOVE EXISTING PAD MOUNTED TRANSFORMER ENCLOSURE AND TURN OVER TO PARKS CANADA. ENCLOSED 60A, 600V FUSED DISCONNECT SWITCH 30kVA, 600-120/208V, STEP DOWN TRANSFORMER AND PRIMARY GROUNDING TO BE MAINTAINED. TRACE OUT, CUT BACK, CAP AND NEATLY COIL EXISTING 600V INCOMING TECK CABLE FOR FUTURE RECONNECTION TO EXISTING 60A, 600V FUSED DISCONNECT SWITCH. DISCONNECT, CAP AND NEATLY COIL EXISTING 600V PRIMARY TECK CABLE TO EXISTING 30kVA, 600-120/208V STEP DOWN TRANSFORMER. DISCONNECT AND REMOVE EXISTING ELECTRICAL FEEDER FROM THE SECONDARY SIDE OF THE EXISTING STEP DOWN TRANSFORMER TO EXISTING KIOSK. COORDINATE SHUTDOWN OF EXISTING TRANSFORMER AND ANY SECONDARY OR PRIMARY FEED THROUGH SERVICES WITH PARKS CANADA IN ACCORDANCE WITH DIV. 01 GENERAL REQUIREMENTS. EXISTING 60A, 600V FUSED DISCONNECT SWITCH TO BE MOUNTED ABOVE EXISTING 30kV, 600-120/208V STEP DOWN TRANSFORMER AND ARE TO BE WELDED AND SECURELY FASTENED TO A UNISTRUT SUPPORT STRUCTURE. EXACT ORIENTATION OF UNISTRUT SUPPORT STRUCTURE TO BE DETERMINED ON SITE. RECONNECT CAPPED 600V INCOMING TECK CABLE TO 60A, 600V FUSED DISCONNECT SWITCH AND RECONNECT EXISTING 600V PRIMARY TECK CABLE TO PRIMARY SIDE OF EXISTING STEP DOWN TRANSFORMER. CONNECT NEW LARGE KIOSK ELECTRICAL FEEDER TO THE SECONDARY SIDE OF THE TRANSFORMER. SUPPORT VERTICAL RUNS OF TECK CABLE TO UNISTRUT SUPPORT STRUCTURE WITH PVC STRAPPING AND STAINLESS STEEL FASTENERS. UNISTRUT SUPPORT STRUCTURE TO BE ENCLOSED IN A NEW ENCLOSURE BOLTED TO NEW CONCRETE PAD WITH ANCHOR BOLTS SET INTO CONCRETE PAD. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON CONCRETE PAD. COORDINATE EXACT LOCATION OF CONCRETE PAD AND NEW ENCLOSURE WITH GENERAL CONTRACTOR AND PARKS CANADA ON SITE PRIOR TO ROUGH-IN.
4. STUB UP 2#12, 1#14 BOND IN 27mmC AND 4c#16 CONTROLS CABLE IN 27mmC INTO BASE OF GATE OPERATOR AND CONNECT TO GATE ARM CONTROLLER.
5. FLASHING AMBER LIGHTS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR ON TOP OF A 114mm DIAMETER ALUMINUM POST AND CONCRETE BASE SUPPLIED AND INSTALLED BY OTHERS. FLASHING AMBER LIGHT TO BE 203mm DIAMETER C/W YELLOW UV STABILIZED, POLYCARBONATE HOUSING, VISOR, MOUNTING BRACKET AND FLASHER MODULE. ACCEPTABLE MANUFACTURER: FORTRAN #P2LY400abc, #FLA480 (FLASHER MODULE), #BRK932 (POST BRACKET). FLASHING AMBER LIGHTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. STUB UP TWO (2) 27mm POWER AND COMMUNICATION CONDUITS FOR BARCODE READER 300mm ABOVE GRADE AND CAP FOR FUTURE USE. COORDINATE EXACT STUB UP LOCATION ON SITE WITH GENERAL CONTRACTOR AND PARKS CANADA PRIOR TO ROUGH-IN.
7. CONNECT 1#4 BARE GROUND CONDUCTOR FROM SERVICE GROUND BUS TO ONE (1) 3000mm LONG MANUFACTURED GROUND ROD DRIVEN INTO THE GROUND 1000mm FROM THE BUILDING FOUNDATION IN ACCORDANCE WITH CSA 22.1-15 SECTION 10.
8. COORDINATE EXACT STUB UP LOCATION OF POWER, COMMUNICATION AND CONTROLS CONDUITS FOR LARGE KIOSK ON SITE WITH GENERAL CONTRACTOR.
9. STUB UP LOCATION OF 6#12, 1#14 BOND IN 35mmC AND SPARE 27mmC WITHIN SMALL KIOSK ON SITE. BOTH STUBS ARE TO BE BROUGHT TO AN 150mm x 150mm x 100mm PULL BOX TO FACILITATE INSTALLATION OF FUTURE CABLING. PULL BOX TO BE LOCATED IN AN ACCESSIBLE BUT INCONSPICUOUS LOCATION. EXACT LOCATION OF INCOMING CONDUIT AND PULL BOXES TO BE COORDINATED ON SITE WITH PARKS CANADA AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
10. STUB UP ONE (1) 53mmC FOR LED SIGNAGE AND LANE SIGNAGE POWER AND ONE (1) 41mmC FOR LED SIGNAGE COMMUNICATIONS INTO BASE OF GROUND MOUNTED FIELD CABINET. PROVIDE EXPANSION SLEEVES ON ALL CONDUIT STUBS AND COORDINATE WORK WITH INSTALLATION OF SIGN STRUCTURE FOOTING. REFER TO DETAIL 6/E1/E3 FOR ADDITIONAL INFORMATION ON GROUND MOUNTED FIELD CABINET.
11. PROVIDE FOR ALL MATERIALS AND LABOUR AS REQUIRED TO TRACE OUT AND DISCONNECT EXISTING KIOSK ELECTRICAL AND RECONNECT NEW KIOSK ELECTRICAL FEEDER TO THE SECONDARY SIDE OF THE 600-120/208V STEP DOWN TRANSFORMER. COORDINATE TEMPORARY SHUTDOWN OF EXISTING TRANSFORMER AND ANY SECONDARY OR PRIMARY FEED THROUGH SERVICES WITH PARKS CANADA IN ACCORDANCE WITH DIVISION 01 GENERAL REQUIREMENTS.



### DETAIL: LIGHTING STANDARD (TYPICAL)

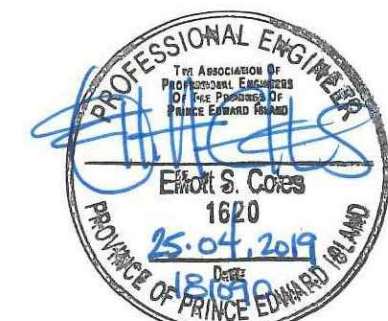
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4  
E1 E1



### KEY PLAN

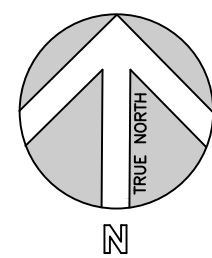
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0	ISSUED FOR TENDER	04/25 2019
revisions		date
project	PARKS CANADA AGENCY ENTRANCES & KIOSKS BRACKLEY BEACH	
project	BRACKLEY BEACH, PE	

### ELECTRICAL SITE PLAN & DETAILS

designed E.A. EIT	conçu
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
E1	



### ELECTRICAL SITE PLAN

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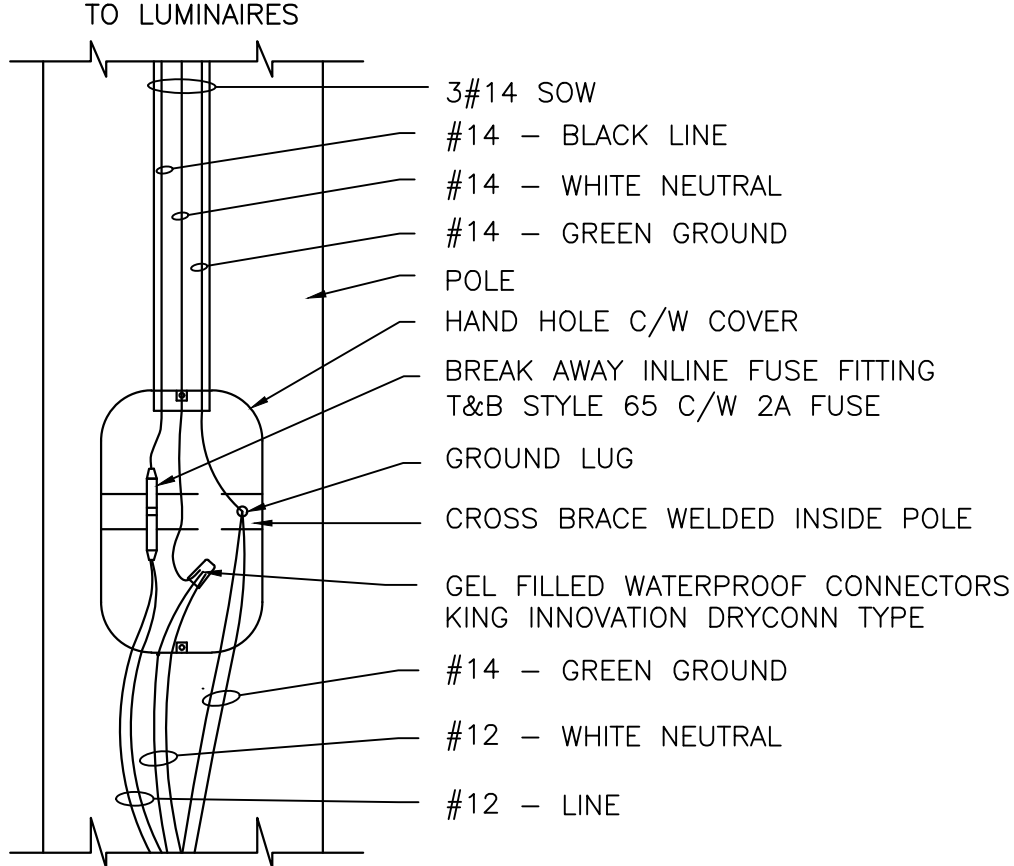
0m 5m 10m 15m

1  
E1 E1

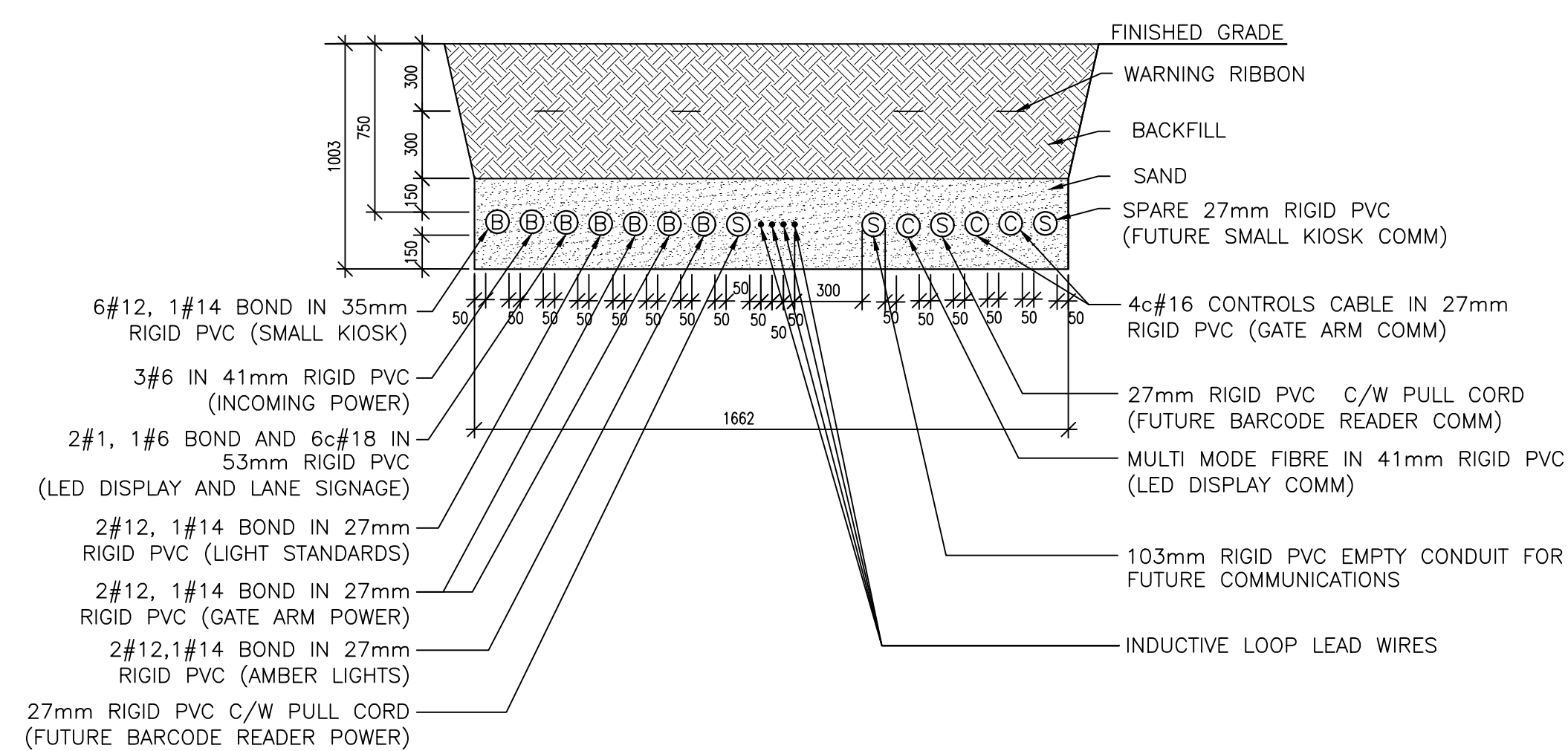
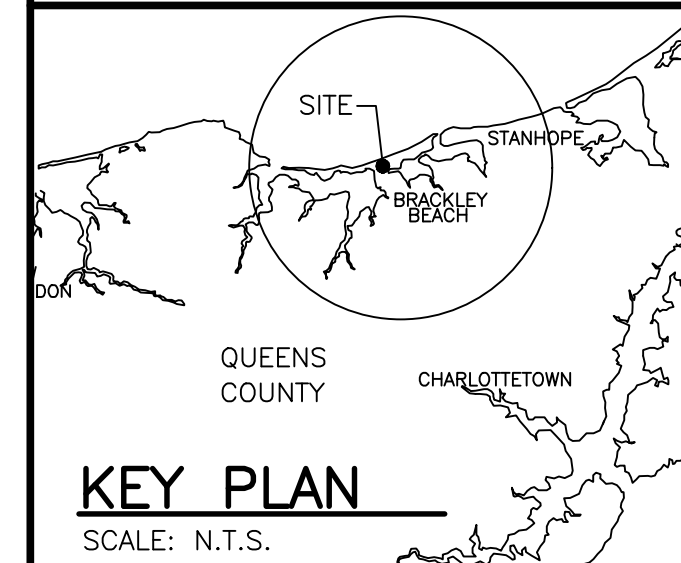
### DETAIL: SITE LIGHTING POLE HAND HOLE

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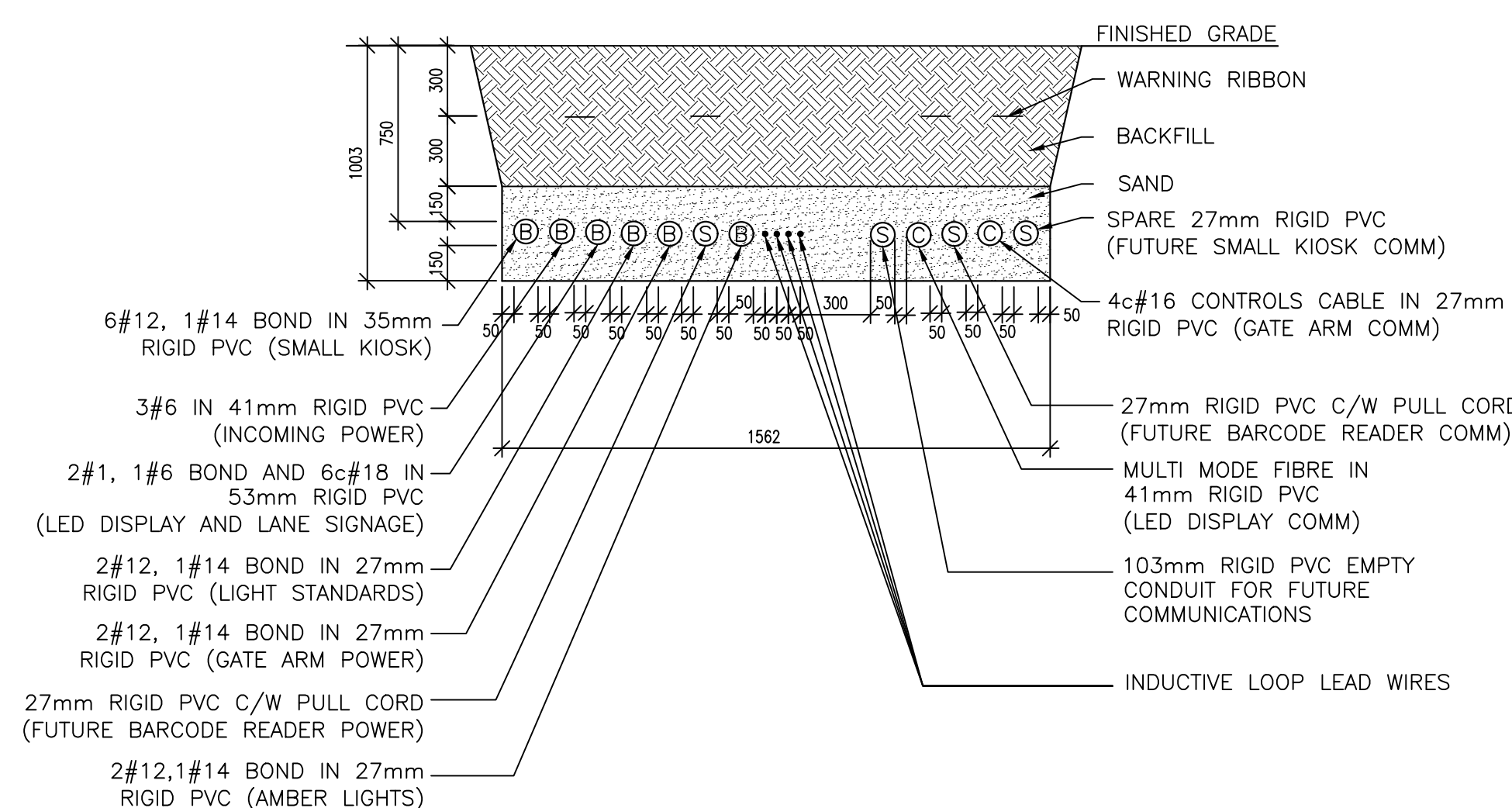
2  
E1 E1



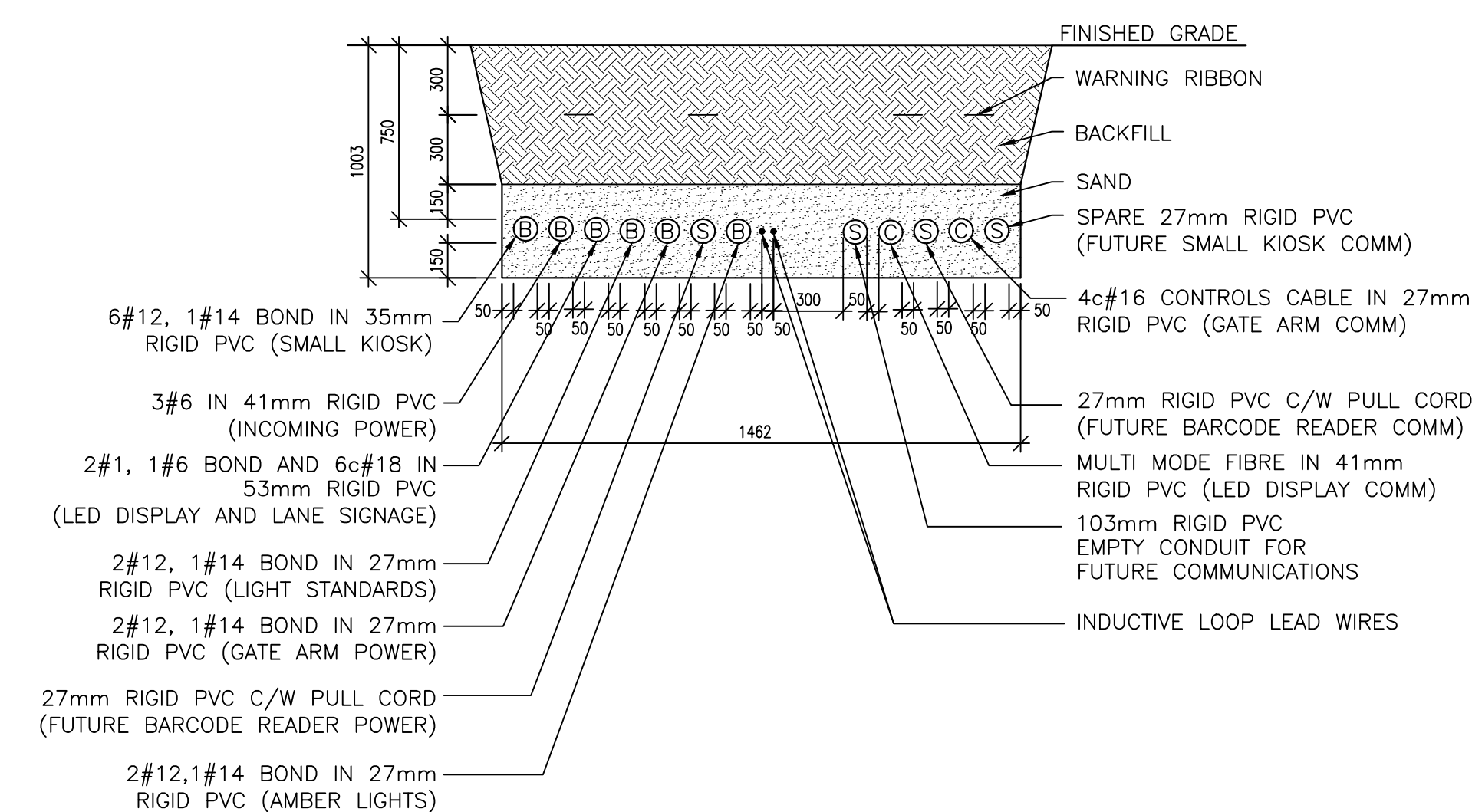





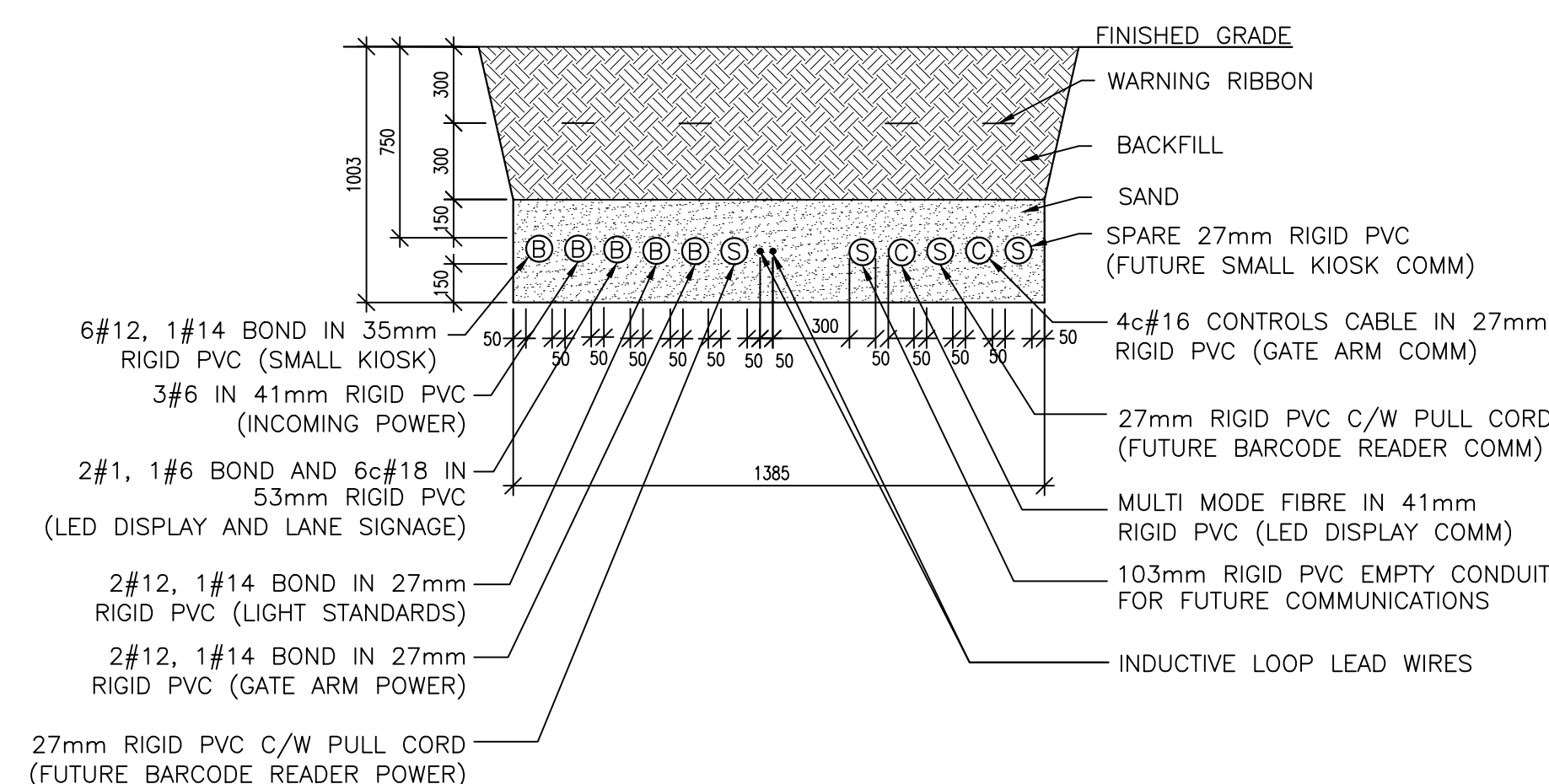
**A SITE POWER & COMMUNICATIONS**



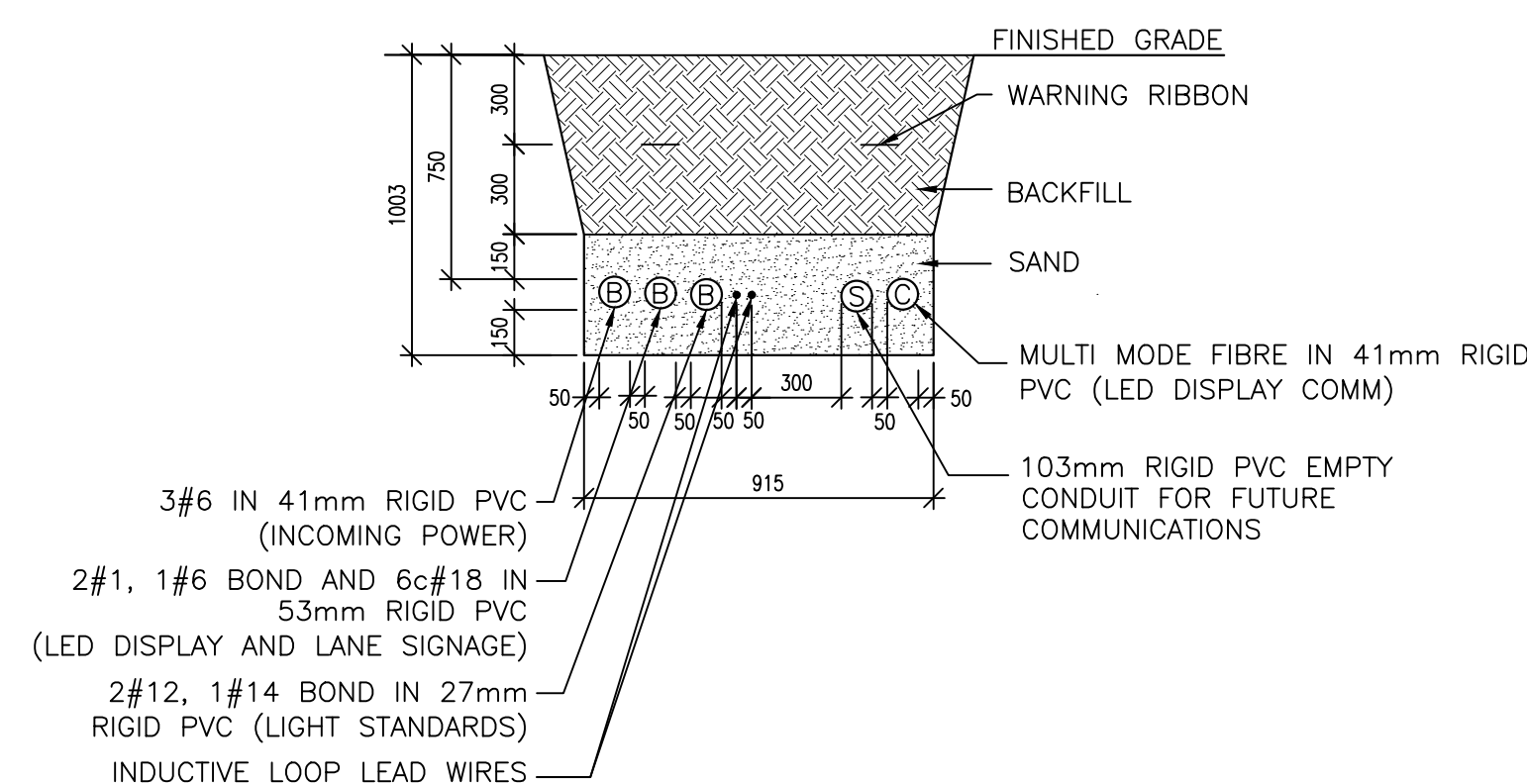
**B SITE POWER & COMMUNICATIONS**



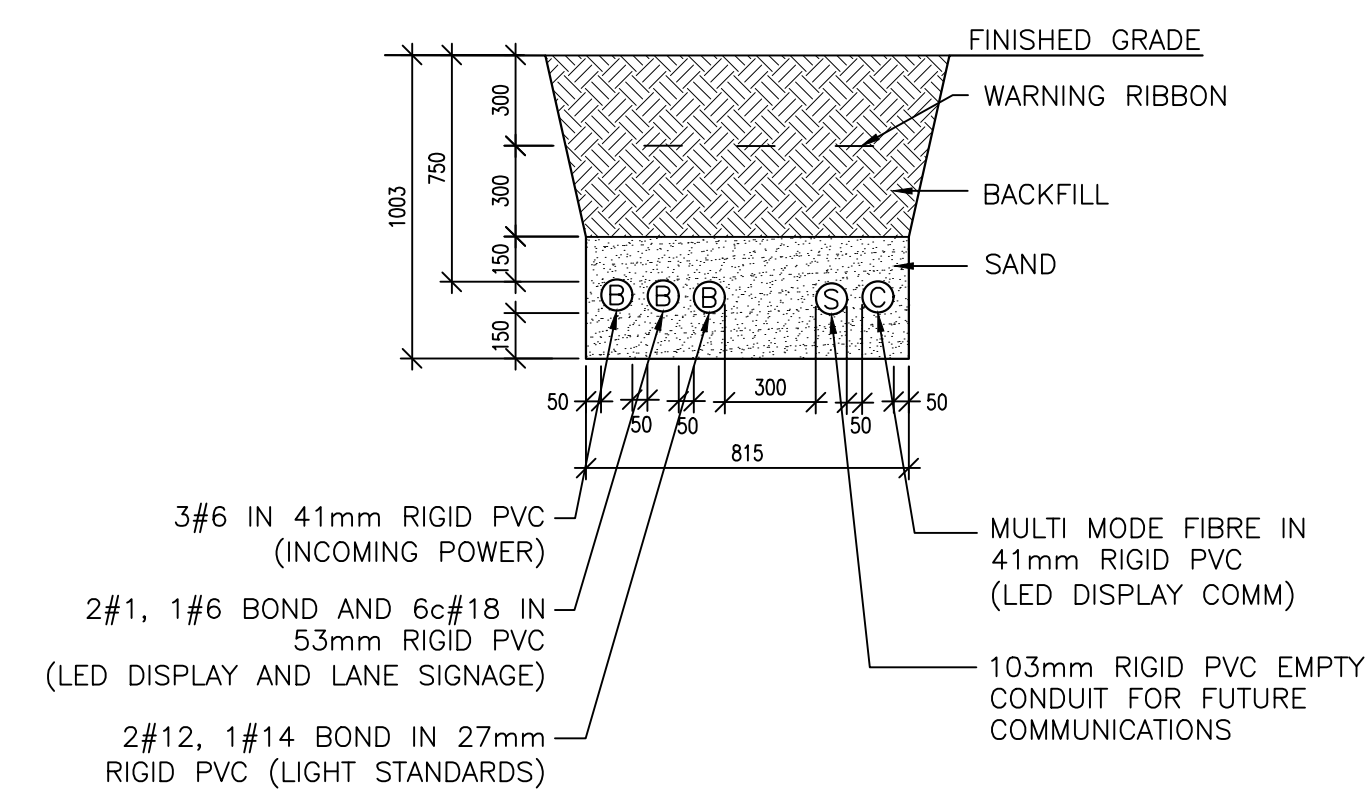
 SITE POWER & COMMUNICATIONS



 SITE POWER & COMMUNICATIONS

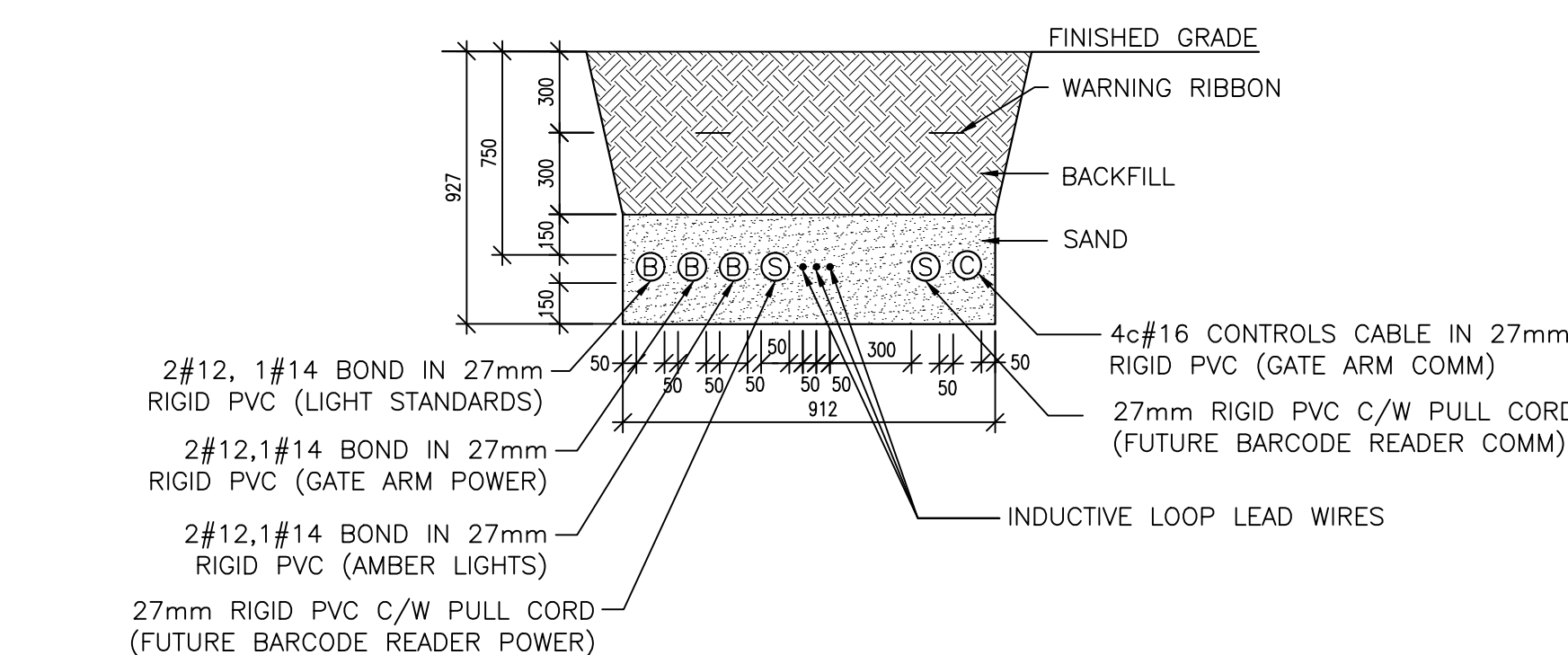


**E SITE POWER & COMMUNICATIONS**

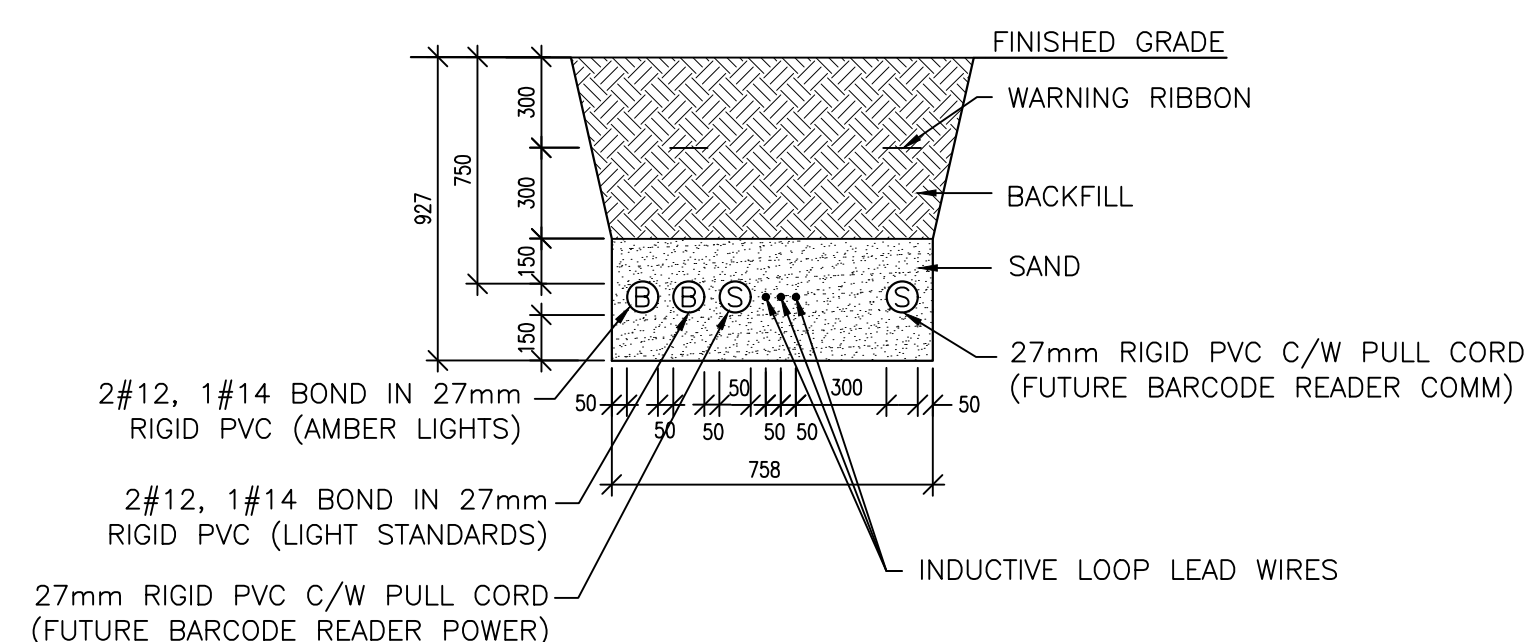


**F SITE POWER & COMMUNICATIONS**

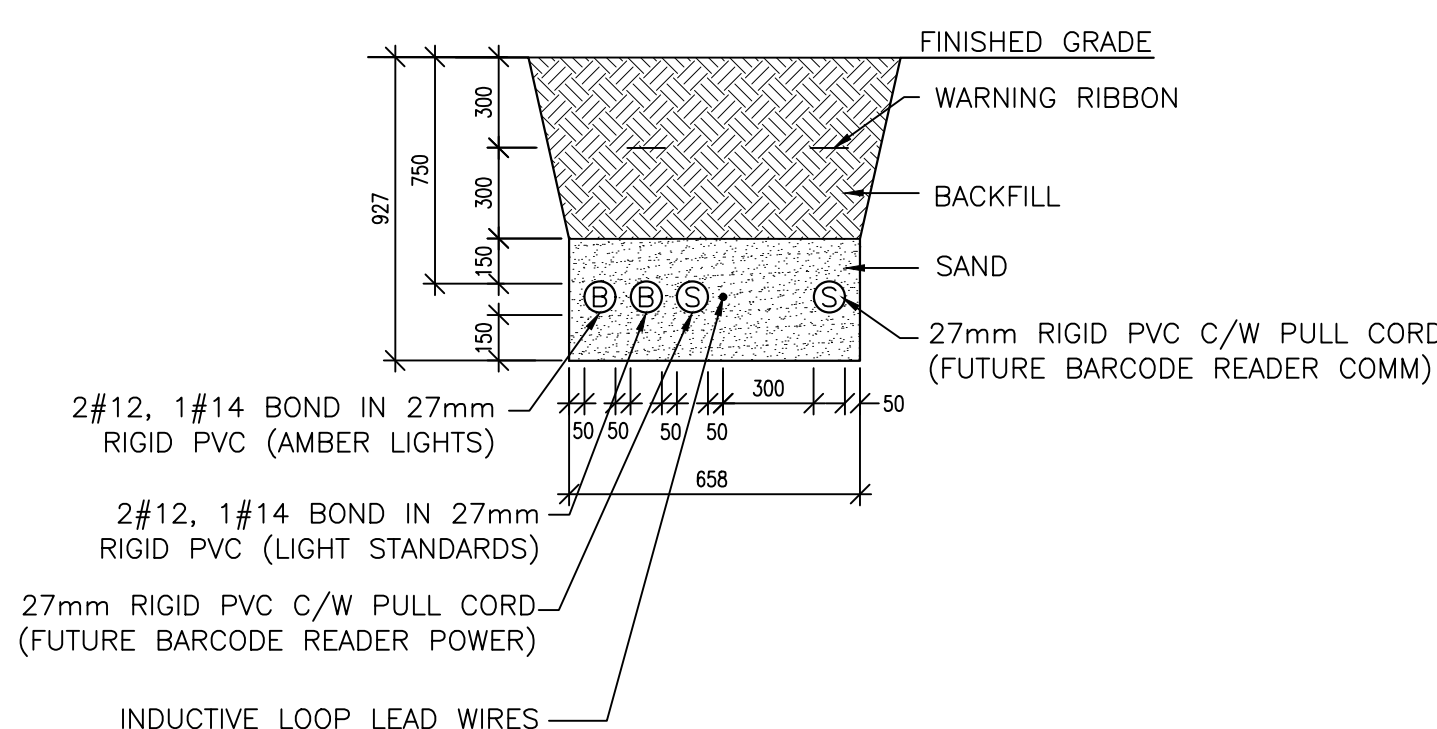
- TRENCH DETAIL NOTES:
1. B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE AS INDICATED.
  2. C = COMMUNICATION CONDUIT
  3. S = SPARE CONDUIT C/W PULL ROPE QUANTITY AND SIZE AS INDICATED.
  4. BACKFILLING OF TRENCH IN LAYERS NOT EXCEEDING 300mm (MECHANICALLY TAMPED).
  5. USE NEW SOIL 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.



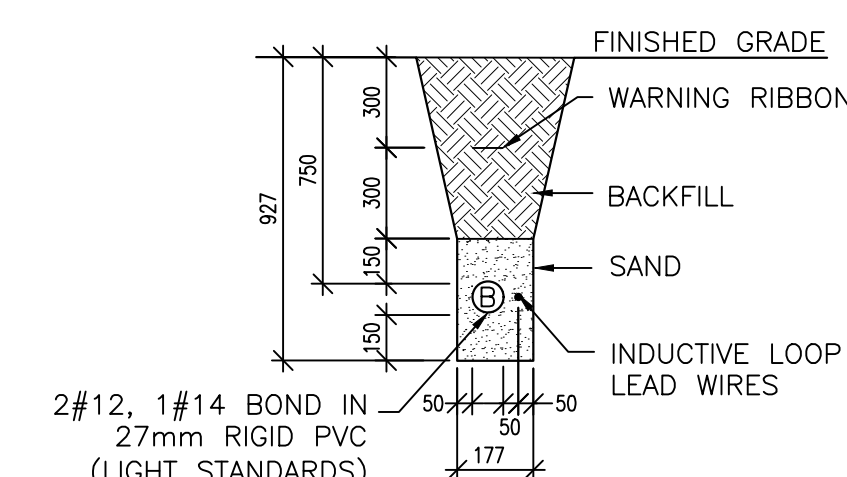
 SITE POWER & COMMUNICATIONS



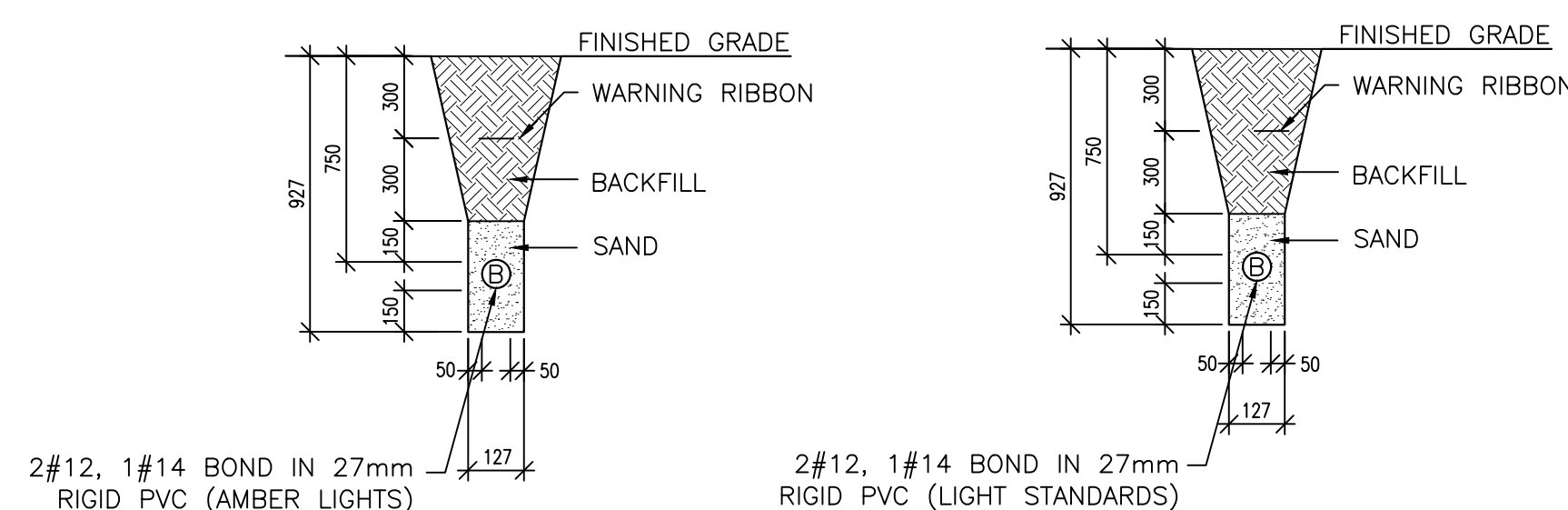
SITE POWER &amp; COMMUNICATIONS



SITE POWER &amp; COMMUNICATIONS

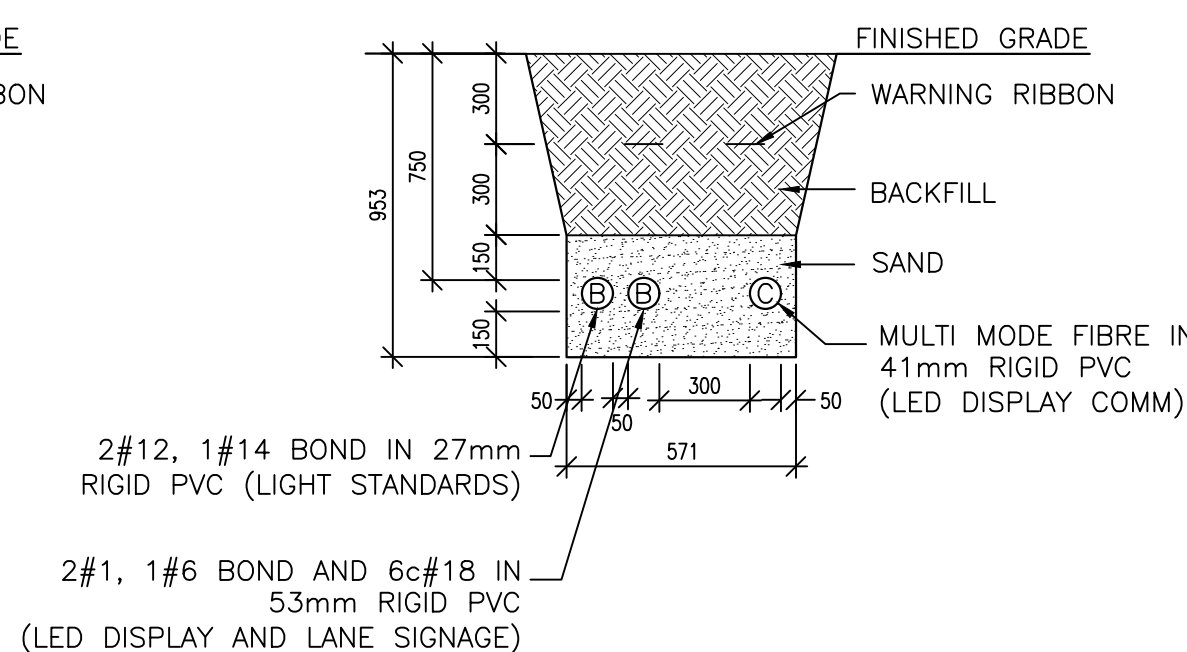


 BRANCH CIRCUIT WIRING & TRAFFIC LOOP

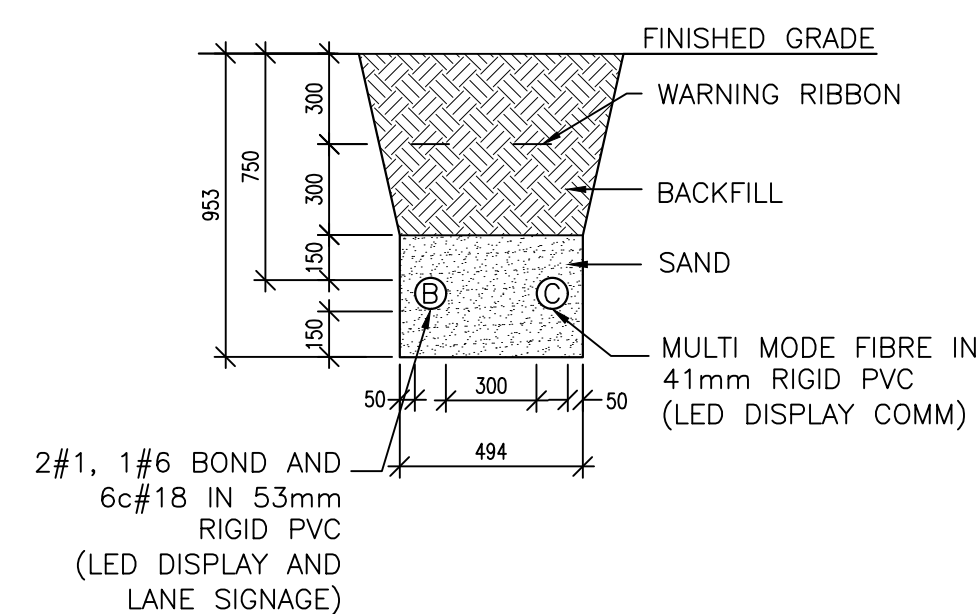


## △ BRANCH CIRCUIT WIRING

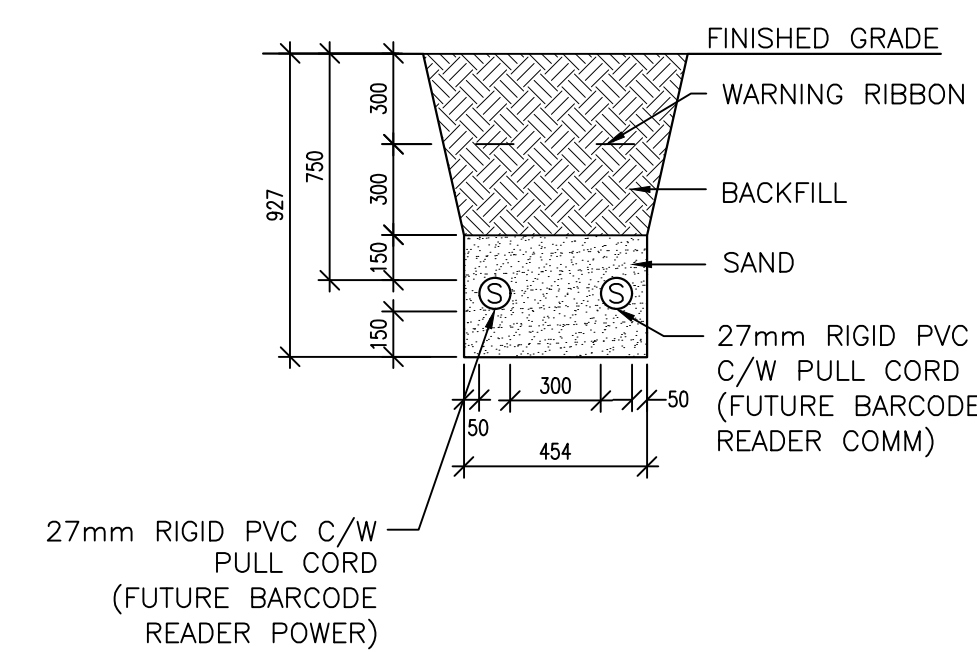
 BRANCH CIRCUIT WIRING



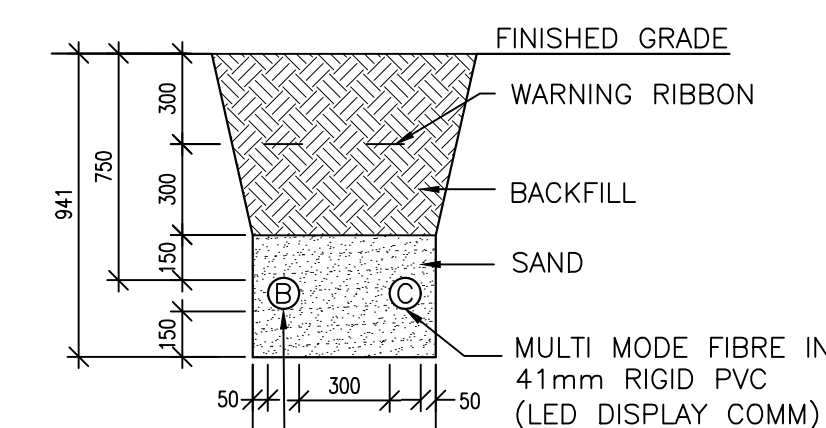
 SITE POWER & COMMUNICATIONS



 OVERHEAD SIGNAGE POWER & COMMUNICATIONS



 FUTURE BARCODE READER POWER & COMMUNICATIONS



 OVERHEAD SIGNAGE POWER & COMMUNICATIONS

## TRENCH DETAILS

SCALE : N.T.S.

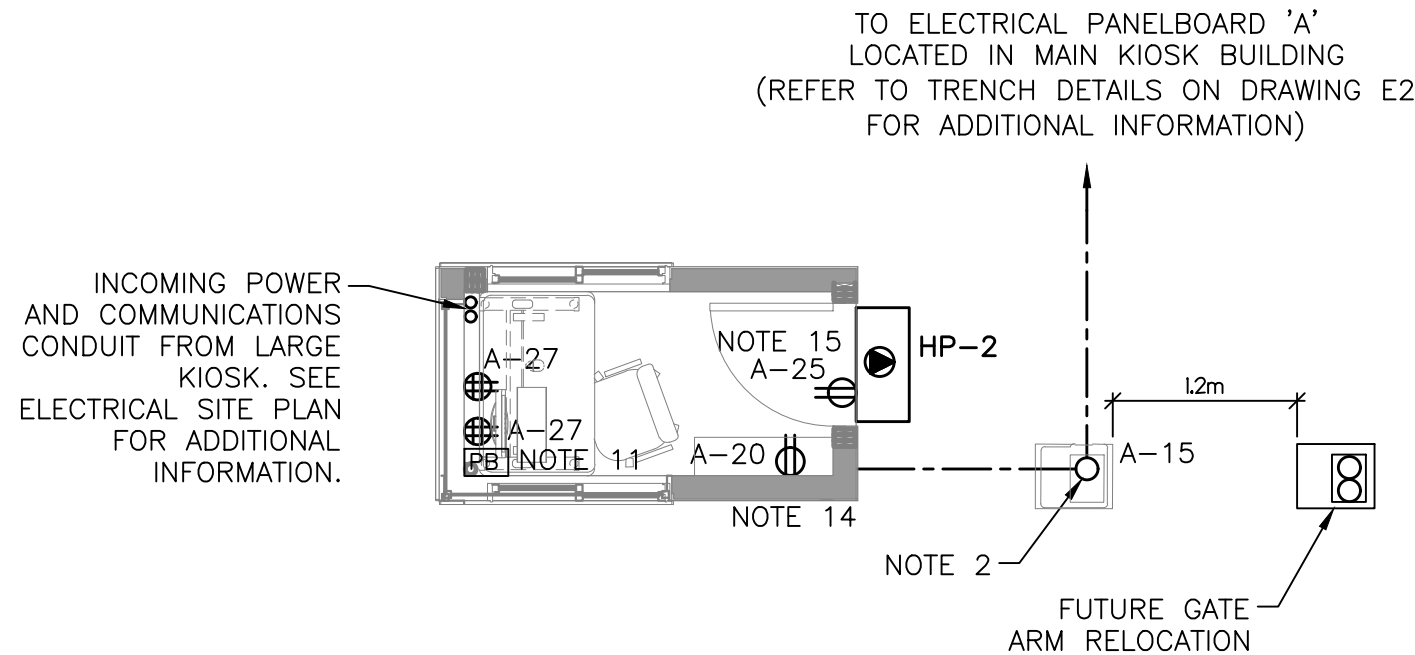


PANEL 'A'													
DESIGNATION	LOAD		P	BKR	CIRCUIT		BKR	P	LOAD		DESIGNATION		
	A	B			A	B			A	B			
RECEPTACLES – DESK	240		1	15	1	A	2	15	330		LIGHTING		
RECEPTACLES – DESK		240	1	15	3	B	4			1728			
MICROWAVE	1000		1	20	5	A	6			1728	HP-1/CU-1		
GATE ARM		1176	1	15	7	B	8	15	1		400	TRAFFIC RECORDING 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			
		1300			19	B	20	15	1	500	RECEPTACLE – AFC MACHINE		
SPARE	–		1	15	21	A	22	15	1	–	SPARE		
SPACE	–				23	B	24	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

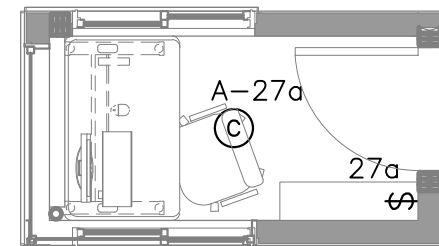
DEMAND CALCULATION					
BASIC LOAD CALCULATION – REFERENCING CEC 22.1-15 8-202 AND 8-210 (a)					
REFERENCING CEC 22.1-15 TABLE 14					
DESIGNATION	AREA (m²)	TYPE OF OCCUPANCY	W/m²	DEMAND %	TOTAL DEMAND (W)
LARGE & SMALL KIOSK	25.6	OFFICE	50	100%	1,280
SPECIAL LOAD CALCULATION – REFERENCING CEC 22.1-15 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.					

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.



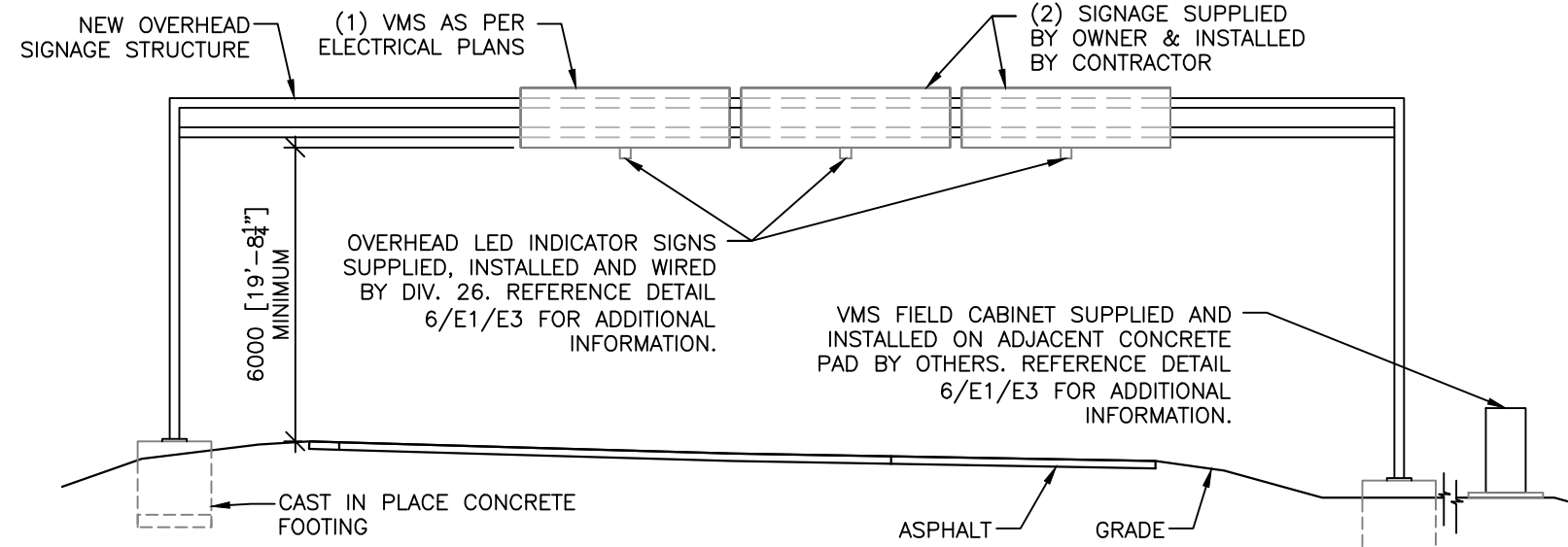
FLOOR PLAN – POWER

SCALE : 1:50



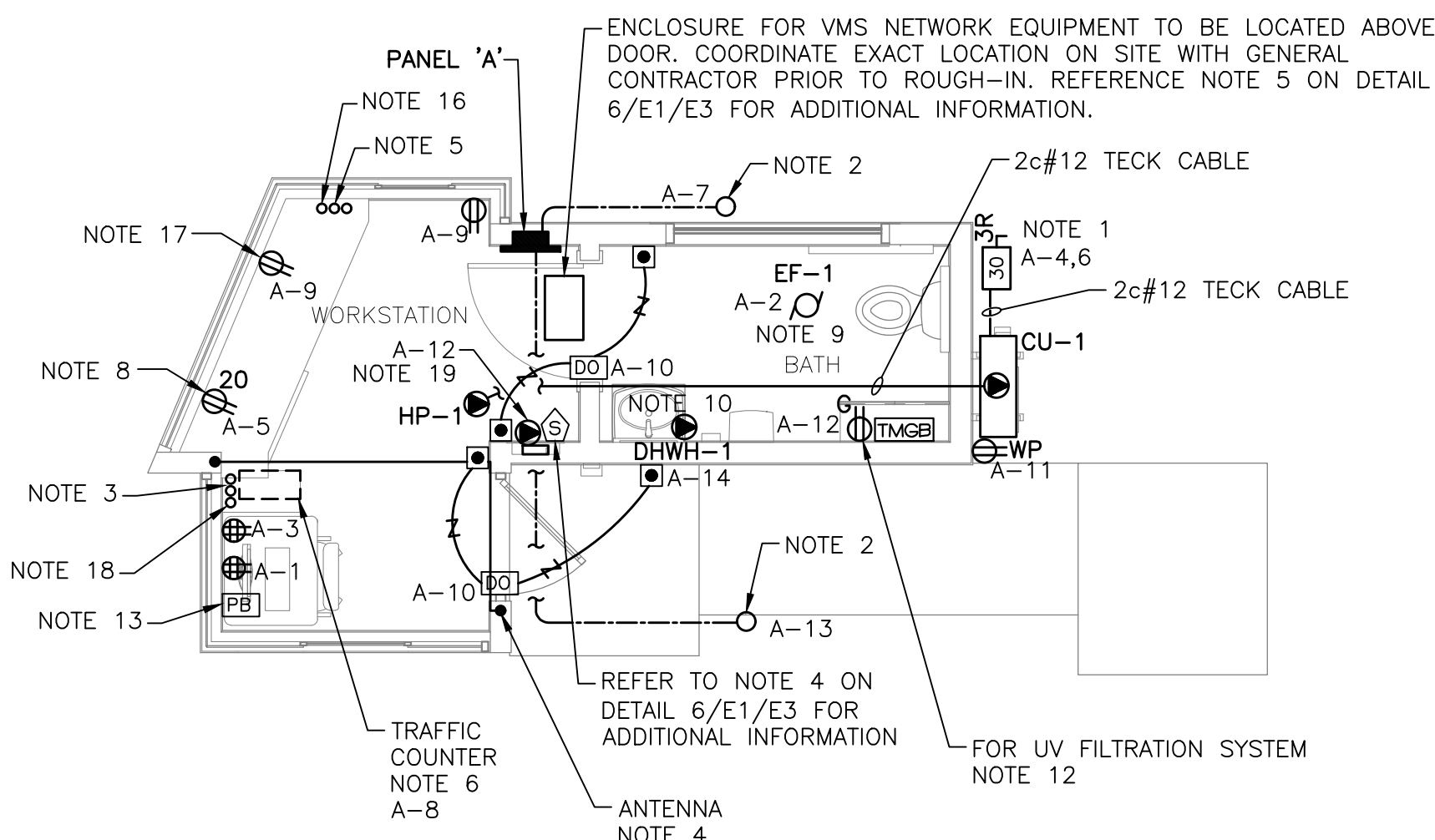
FLOOR PLAN – LIGHTING

SCALE : 1:50



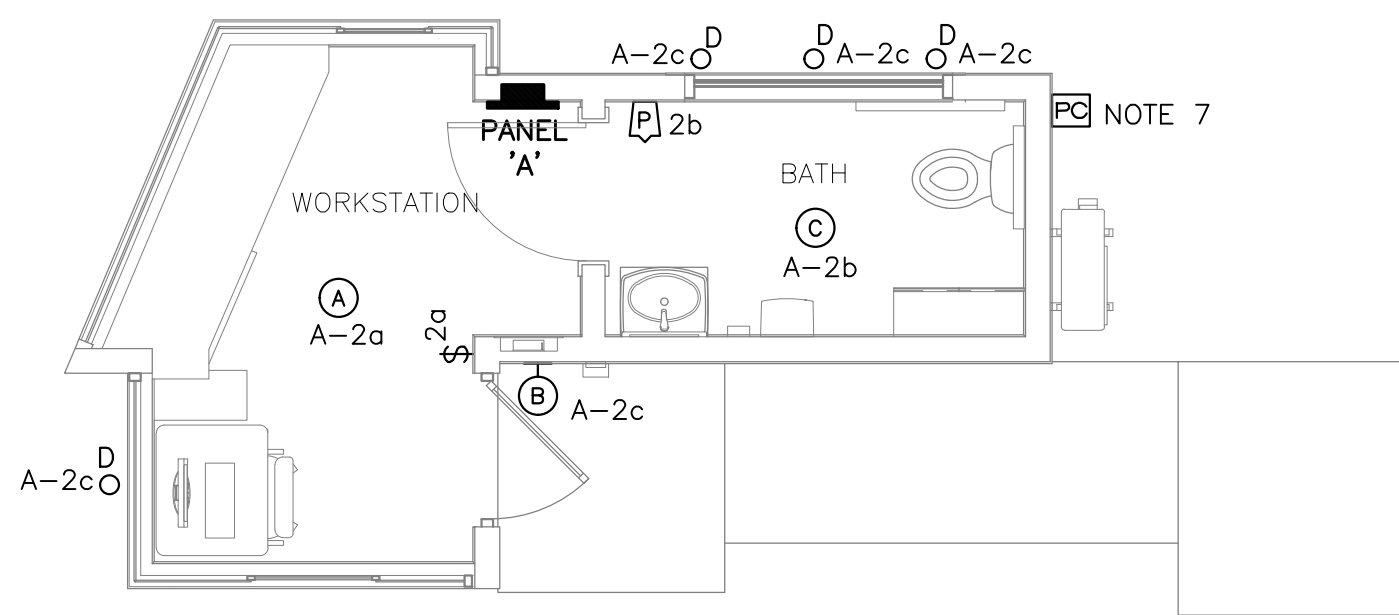
ELEVATION: OHSS

SCALE : 1:150



FLOOR PLAN – POWER

SCALE : 1:50



FLOOR PLAN – LIGHTING

SCALE : 1:50

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 WRING TO BE COMPLETED BY VMS SUPPLIER AND COMMISSIONING AGENT.

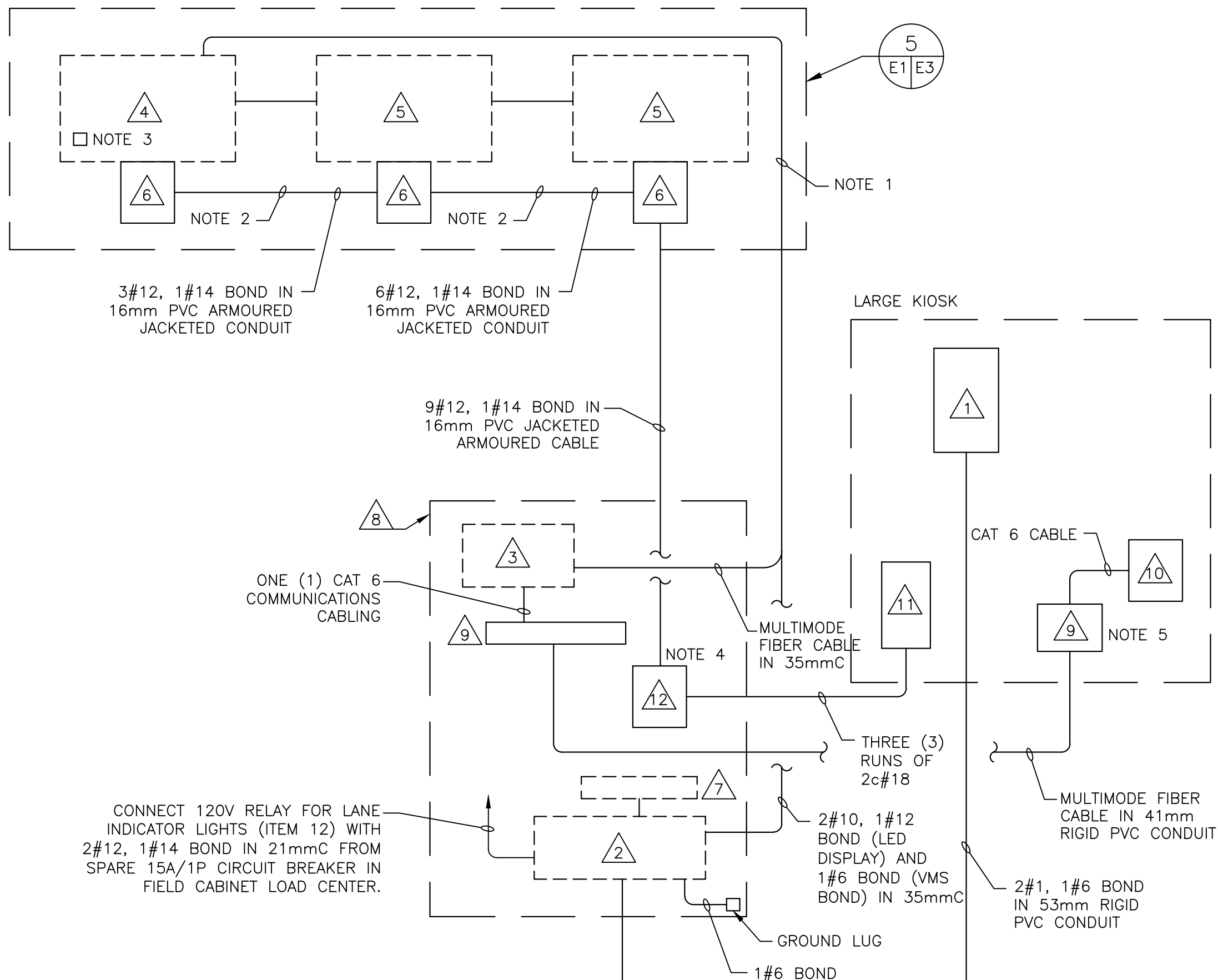
DETAIL NOTES:

- SECURELY FASTEN TWO (2) EXPOSED 35mm PVC JACKETED ARMoured 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 ARMoured CABLE WITH OVERHEAD SIGNAGE STRUCTURE INSTALLER. PROVIDE WATER TIGHT SPIN-ON 35mm CONNECTOR TO CONNECT 35mm PVC JACKETED ARMoured CABLE TO VMS 35mm CONDUIT FITTING.
- SECURELY FASTEN 16mm PVC JACKETED ARMoured 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 ARMoured CABLE WITH OVERHEAD SIGNAGE STRUCTURE INSTALLER.
- CONNECT 1#6 GREEN BOND IN PVC JACKETED ARMoured 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 LANE INDICATOR SIGNS WITH 9#12, 1#14 BOND IN 35mm UNDERGROUND RIGID PVC CONDUIT AND 16mm PVC JACKETED ARMoured 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 (CORNING #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 #ESW205-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

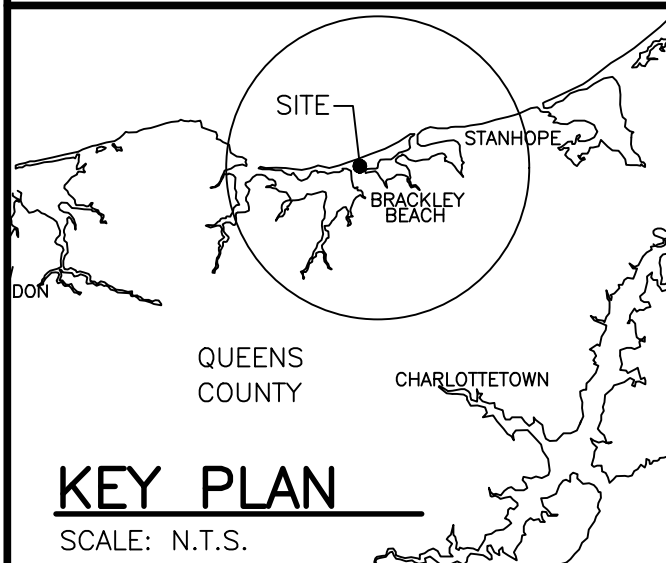
SCALE : N.T.S.



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KEY PLAN

SCALE: N.T.S.



0	ISSUED FOR TENDER	04/25 2019
revisions		date

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

drawing  
**ELECTRICAL  
FLOOR PLANS & DETAILS**

designed E.A. EIT	conçu
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
E3	