

Parks Canada Agency

Agence Parcs Canada

Parks Canada Agency
PO# 45360751- Rouge National Urban Park
6944 19th Avenue

Northern Welcome Area

Canada 

LIST OF DRAWINGS

LANDSCAPE

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L3	LANDSCAPE DETAILS
L4	LANDSCAPE DETAILS
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S4	WASHROOM FRAMING PLANS
S5	WASHROOM SECTIONS
S6	PICNIC SHELTER, FRAMING PLANS, ELEVATIONS AND SECTIONS

DATE: MARCH 2018
ISSUED FOR TENDER



Stantec Project Number. 160622334

675 Cochraine Drive
Markham, Ontario, L3R 0B8
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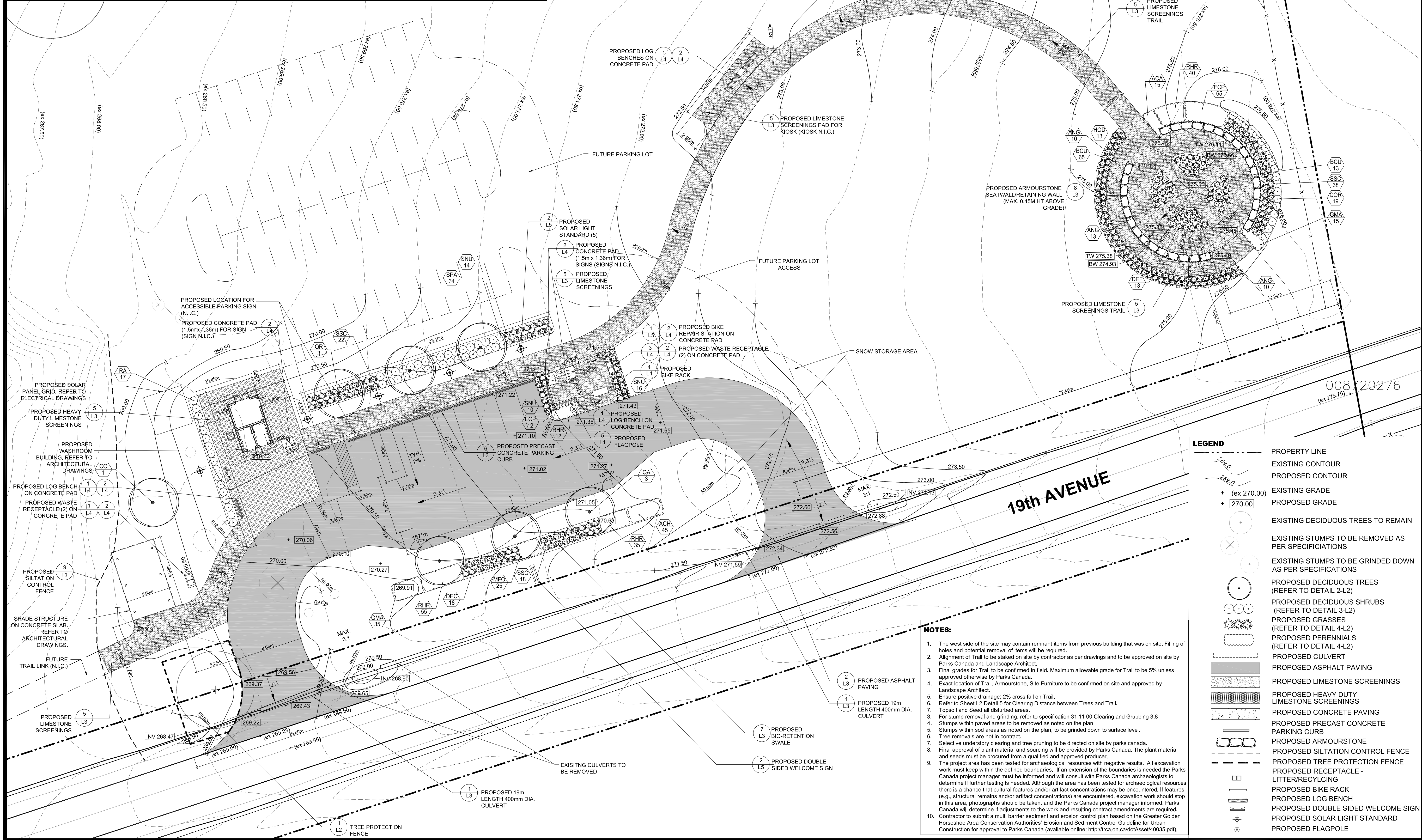
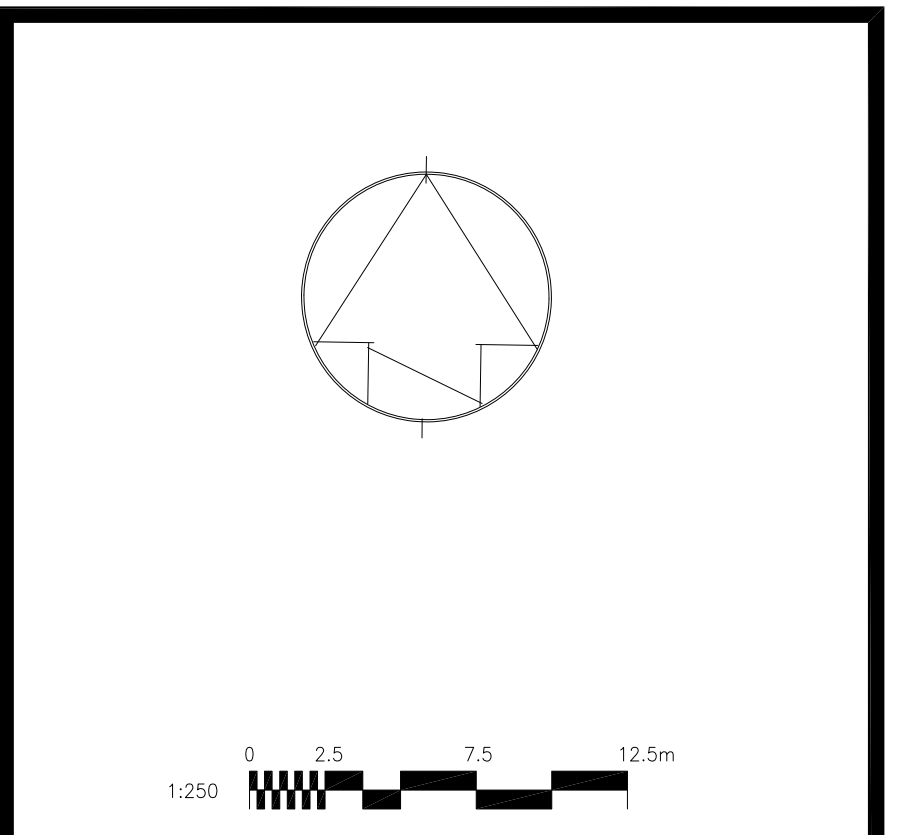
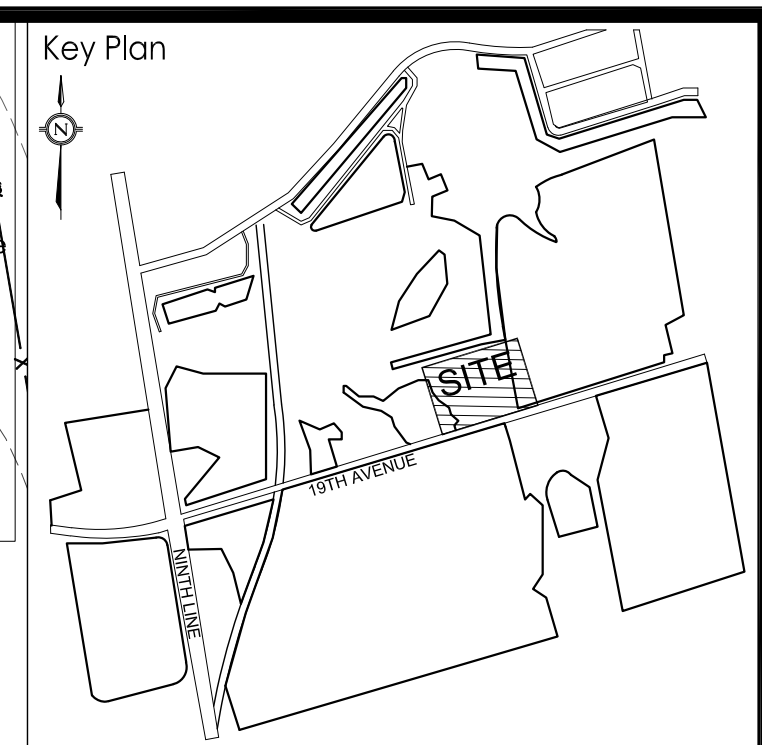
Sym	Qty	Botanical Name	Common Name	CAL (mm)	HT (mm)	Root	Remarks
DECIDUOUS TREES:							
CO	1	Celtis occidentalis	Hackberry	70		W.B.	
QA	3	Quercus alba	White Oak	70		W.B.	
QR	3	Quercus rubra	Red Oak	70		W.B.	
SHRUBS:							
COR	19	Comus sericea	Red Osier Dogwood		600	3 Gal.	
RA	17	Rhus aromatica	Fragrant Sumac		600	3 Gal.	
SPA	34	Spiraea alba	Meadowsweet		600	3 Gal.	
PERENNIALS:							
ACH	45	Achillea millefolium	Common Yarrow			1 Gal.	450 o.c.
ACA	15	Anemone canadensis	Canada Anemone			1 Gal.	450 o.c.
ECP	77	Echinacea purpurea	Purple Coneflower			1 Gal.	450 o.c.
GMA	50	Geranium maculatum	Wild Geranium			1 Gal.	450 o.c.
MFO	25	Monarda fistulosa	Wild Bergamot			1 Gal.	450 o.c.
RHR	142	Rudbeckia hirta	Black-Eyed Susan			1 Gal.	450 o.c.
ORNAMENTAL GRASSES:							
ANG	33	Andropogon gerardii	Big Bluestem			1 Gal.	600 o.c.
BCU	78	Buteloua curtipendula	Side Oats Grama			1 Gal.	600 o.c.
DEC	18	Deschampsia cespitosa	Tufted Hair Grass			1 Gal.	600 o.c.
DEF	13	Deschampsia flexuosa	Wavy Hair Grass			1 Gal.	600 o.c.
HOD	13	Hierochloa odorata	Sweet Grass			1 Gal.	600 o.c.
SSC	78	Schizachyrium scoparium	Little Bluestem			1 Gal.	600 o.c.
SNU	40	Sorghastrum nutans	Little Bluestem			1 Gal.	600 o.c.

Qty %	Botanical Name	Common Name	Planting Density
25	Andropogon gerardii	Big Blue Stem	Rate of Application: 32 kg/hectare in a Native or a Conservation Authority 'acceptable Exotic' Nurse Crop.
10	Antennaria neglecta	Pussy-Toes	
25	Elymus canadensis	Canada Wild Rye	
5	Monarda fistulosa	Wild Bergamot	
10	Rudbeckia hirta	Black-Eyed Susan	
25	Schizachyrium scoparium	Little Bluestem	

- NOTES:**
- All disturbed areas are to be seeded unless noted otherwise.
 - The successful contractor will provide a planting plan that includes appropriate site preparation, species, planting density, and a long-term maintenance plan to be approved by Parks Canada Resource Conservation staff.
 - The Upland Meadow Native Seed Mix table is an example of plants that may be seeded in this area.

Environmental Impact Analysis Notes:

1. Parks Canada has an environmental impact analysis (EIA) process to fulfill its requirements as a federal land manager under the Canada Environmental Assessment Act, 2012. The EIA process incorporates federal legislative requirements including the Migratory Birds Convention Act, Fisheries Act, Rouge National Urban Park Act, and Species at Risk Act to meet legal and mandated obligations to protect the natural, cultural and agricultural heritage in Rouge National Urban Park. Parks Canada will finalize the EIA for this project upon award of contract and approval of contractor's final plan. The EIA will include the Best Management Practice for Common Activities and Tree Planting (included in tender package).



DRAWING NO.	DRAWING NAME		
XX	XXXX		
REFERENCE DRAWINGS			
6	03.23.2018	ISSUED FOR TENDER	L.H. M.D.
5	02.01.2018	100% SUBMISSION	L.H. M.D.
4	11.03.2017	99% REVIEW	L.H./N.D. M.D.
3	06.29.2017	66% REVIEW	E.A./L.H. M.D.
2	06.29.2016	CLIENT REVIEW	E.A. M.D.
1	05.30.2016	CLIENT REVIEW	E.A. M.D.
NO.	DATE	DESCRIPTION	Drawn by / Approved Dessiné par / Approuvé

REVISIONS			
A	A Detail number	A	Numero de detail
B	B Sheet number	B	Sur feuille numero

Linear dimensions in millimeters / Dimensions lineaires en millimetres

Parcs Canada / Parks Canada

Canada

008720276 (ex 2715.15)

PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet
PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
LANDSCAPE PLAN

Plot Scale / Echelle
1:1 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
E.A. Date: --/--/2016

Field Recording by /
Relève-Temoins par
Date: --/--/2016

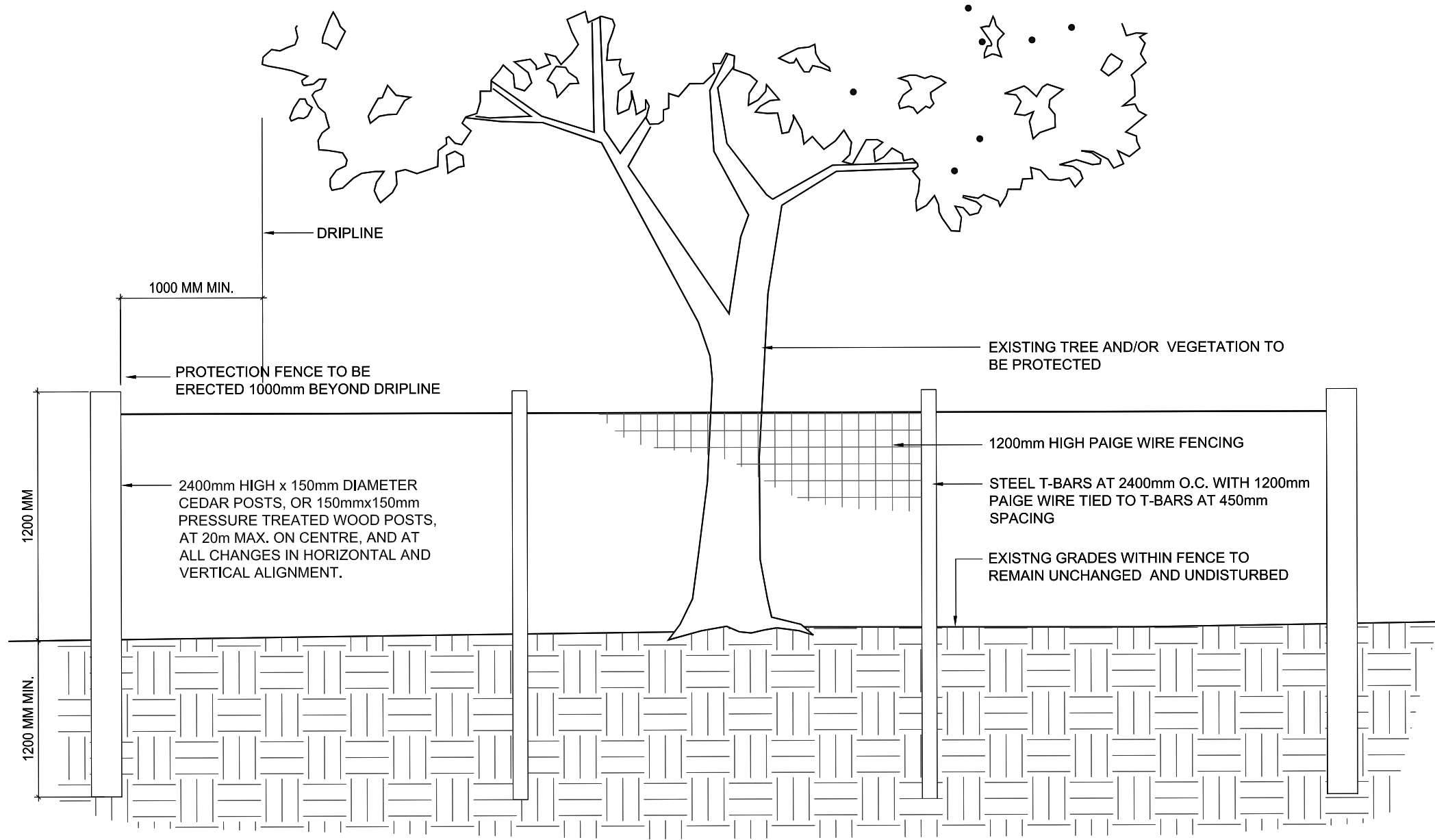
Approved by / Approuvé par
M.D. Date: --/--/2016

Checked by / Verifie par
M.D. Date: --/--/2016

Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
160622334	-	L1
Drawing Re No./No. du Dessin		

LEGEND	DESCRIPTION
---	PROPERTY LINE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	EXISTING GRADE
---	PROPOSED GRADE
○	EXISTING DECIDUOUS TREES TO REMAIN
✕	EXISTING STUMPS TO BE REMOVED AS PER SPECIFICATIONS
○	EXISTING STUMPS TO BE GRINDED DOWN AS PER SPECIFICATIONS
○	PROPOSED DECIDUOUS TREES (REFER TO DETAIL 2-L2)
○	PROPOSED DECIDUOUS SHRUBS (REFER TO DETAIL 3-L2)
○	PROPOSED GRASSES (REFER TO DETAIL 4-L2)
○	PROPOSED PERENNIALS (REFER TO DETAIL 4-L2)
---	PROPOSED CULVERT
---	PROPOSED ASPHALT PAVING
---	PROPOSED LIMESTONE SCREENINGS
---	PROPOSED HEAVY DUTY LIMESTONE SCREENINGS
---	PROPOSED CONCRETE PAVING
---	PROPOSED PRECAST PARKING CURB
---	PROPOSED ARMOURSTONE
---	PROPOSED SILTATION CONTROL FENCE
---	PROPOSED TREE PROTECTION FENCE
---	PROPOSED RECEPTACLE - LITTER/RECYCLING
---	PROPOSED BIKE RACK
---	PROPOSED LOG BENCH
---	PROPOSED DOUBLE SIDED WELCOME SIGN
---	PROPOSED SOLAR LIGHT STANDARD
---	PROPOSED FLAGPOLE

- NOTES:**
- The west side of the site may contain remnant items from previous building that was on site. Filling of holes and potential removal of items will be required.
 - Alignment of Trail to be staked on site by contractor as per drawings and to be approved on site by Parks Canada and Landscape Architect.
 - Final grades for Trail to be confirmed in field. Maximum allowable grade for Trail to be 5% unless approved otherwise by Parks Canada.
 - Exact location of Trail, Armourstone, Site Furniture to be confirmed on site and approved by Landscape Architect.
 - Ensure positive drainage; 2% cross fall on Trail.
 - Refer to Sheet L2 Detail 5 for Clearing Distance between Trees and Trail.
 - Topsoil and Seed all disturbed areas.
 - For stump removal and grinding, refer to specification 31 11 00 Clearing and Grubbing 3.8
 - Stumps within paved areas to be removed as noted on the plan.
 - Stumps within sod areas as noted on the plan, to be grinded down to surface level.
 - Tree removals are not in contract.
 - Selective understory clearing and tree pruning to be directed on site by parks canada.
 - Final approval of plant material and sourcing will be provided by Parks Canada. The plant material and seeds must be procured from a qualified and approved producer.
 - The project area has been tested for archaeological resources with negative results. All excavation work must keep within the defined boundaries. If an extension of the boundaries is needed the Parks Canada project manager must be informed and will consult with Parks Canada archaeologists to determine if further testing is needed. Although the area has been tested for archaeological resources there is a chance that cultural features and/or artifact concentrations may be encountered. If features (e.g., structural remains and/or artifact concentrations) are encountered, excavation work should stop in this area, photographs should be taken, and the Parks Canada project manager informed. Parks Canada will determine if adjustments to the work and resulting contract amendments are required.
 - Contractor to submit a multi barrier sediment and erosion control plan based on the Greater Golden Horseshoe Area Conservation Authorities' Erosion and Sediment Control Guideline for Urban Construction for approval to Parks Canada (available online: <http://trca.on.ca/doc/Asset40035.pdf>).



NOTES:

- ATTACHMENT OF FENCE TO TREES WILL NOT BE PERMITTED.
- ANY EXPOSED ROOTS ARE TO BE HAND PRUNED USING PROPER ARBORCULTURAL PRACTICES.
- UNDER NO CIRCUMSTANCES SHALL ANY CONSTRUCTION MATERIALS, EQUIPMENT OR VEHICLES BE PLACED WITHIN THE TREE PROTECTION ZONE.
- ALL TREE PROTECTION TO BE ERRECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND IS TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED. OBTAIN WRITTEN APPROVAL FROM CONTRACT ADMINISTRATOR PRIOR TO REMOVAL OF FENCING.

1 TREE PROTECTION FENCE
SCALE: NTS

PLANTING NOTES:

- Plants shall be installed per the Specifications included in the contract unless otherwise directed by the Drawing Notes and Details or by the Parks Canada of Record.
- Tree Protection:** Any existing trees, shrubs and herbaceous plants, unless noted for removal, shall be protected from construction damage with approved fencing. Do not alter grades or compact soil around the base of an existing tree, do not disturb or expose roots of any existing tree. Refer to the Specifications, Tree Protection Notes and Details included as required.
- A) Qualified plant material suppliers adhere to the guidelines of the Society for Ecological Restoration. Some of these Suppliers are listed in the 6th Edition Native Plant Resource Guide Ontario, Submit for prior approval of plant material and sourcing to Resource conservation staff from Parks Canada (available online: <http://chapter.ser.org/ontario/files/2012/08/SERO-6th-Ed.-Growers-List-Only.pdf>)
B) Where appropriate, plant materials specified for this project will conform to the Canadian Nursery Landscape Association's Canadian Nursery Stock Standard Ninth Edition.
C) Any plant materials which do not conform (in the opinion of the Parks Canada) will be promptly removed from the project and replaced by the contractor at no additional cost to the project.
- Bare root plant materials shall not be permitted for any planting taking place between May 15th and October 15th without written approval from the Parks Canada of Record.
- Plant materials collected from wild sources will not be accepted. The Parks Canada of Record reserves the right to require that Supplier invoices be submitted for inspection and approval prior to acceptance.
- The Parks Canada of Record is to be contacted for inspection and written approval prior to any plant material installation. All plant locations to be staked and clearly labeled for approval prior to planting. The Parks Canada of Record reserves the right to reject any plant materials that have not been inspected and approved.
- The Parks Canada of Record reserves the right to refuse acceptance of any plant displaying poor growth habits, injury or disease. Any plant material that is rejected by the Parks Canada of Record will be promptly removed from the Project and replaced with material of acceptable quality at no additional cost to the Project.
- Remove dead or damaged branches on trees or shrubs. All pruning shall be performed in accordance with standard horticultural practices and International Society of Arborists (I.S.A.) specifications with appropriate timing for each species.
- Plants are not to be installed or transplanted during extreme heat, drought or other undesirable conditions. Thoroughly water all plant materials immediately after installation. Contractor not to proceed in uncertainty. Contact Parks Canada of Record for direction.
- All plant materials shall be planted in topsoil native to the Project. Additional soils or additives shall be permitted as specified in the Drawings and Specifications.
- The Contractor shall relocate any proposed tree or shrub on the Project as directed by the Parks Canada of Record.
- The Contractor shall water plants as required or as directed by the Parks Canada of Record during construction and the warranty period. Plants shall be watered within 48 hours of written request by the Owner or Owner's representative. Failure to do so after the second request shall result in Work being undertaken by others. The cost of this Work shall be deducted from the total Contract Price or holdback and otherwise recovered from the Contractor.
- All deciduous trees shall be planted and staked in accordance with the planting details shown in the Drawings. Remove stakes and wires at the end of warranty period or earlier, as directed by Parks Canada of Record.
- Shredded bark mulch shall be spread uniformly around base of trees and shrubs to a depth of 100mm and a radius of 300mm from trunk(s). Do not place mulch in direct contact with trunks. Use only shredded pine or cedar bark mulch. Hardwood chips shall be rejected by the Parks Canada of Record. Mulch shall be heat-treated to kill any insect/pests.
- The Contractor shall be responsible for all maintenance and replacement of dead plant materials during the warranty period until final acceptance.
- The Owner reserves the right to extend the Contractor's warranty responsibilities for an additional year if, at the end of the initial warranty period leaf development and growth is not sufficient to ensure future survival as determined by the Parks Canada of Record.
- Topsoil shall be as per the Specifications unless otherwise directed by the Drawing Details.
- The Landscape plan was designed based on the existing base information provided by the owner. Contractor is responsible for locating all underground services and utilities prior to planting. If there are any conflicts with existing or proposed services, utilities, aerial lines or existing sidewalks/pavement areas, please contact the Contract Administrator immediately prior to starting the work.

PROTECTING AND MANAGING TREES DURING CONSTRUCTION:

- This site is SAR habitat. All trees to be removed shall be in accordance with the Migratory Birds Contravention Act.
- Upon receiving the necessary approvals and prior to the commencement of tree removals, all area designated for preservation must be flagged in the field. All designated preservation areas must be left standing and undamaged during the removals work. All removals must be felled into the development area. The removals are to be completed outside of the migratory bird nesting season from April 1 to August 15th or later. Removals may take place during this restricted time only if the requirements of the Migratory Birds Convention Act are met and nesting activity is routinely monitored by qualified individuals (i.e. wildlife biologists).
- Upon completion of the tree removals, all felled trees are to be removed from the site, and all brush chipped and removed. No lumber or brush from the clearing is to be stored on the site, all brush, roots and wood debris must be shredded into pieces.
- Tree Protection Fencing will be installed as required. Refer to drawing Details.
- Areas within the drip line of the trees designated for preservation are not to be used for any type of storage (e.g. storage of debris, construction material, surplus soils, and construction equipment). No trenching or tunneling for underground services shall be located within the tree protection zone or drip line of trees designated for preservation within or adjacent to construction zone.
- Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them, nor shall any contaminants be dumped within the protective areas. Further, no contaminants shall be dumped or flushed where they may come into contact with the feeder roots of the trees.
- In the event that it is necessary to remove additional limbs or portions of trees, after construction has commenced, to accommodate construction, Parks Canada is to be informed and the removal is to be executed carefully and in full accordance with arboricultural techniques, by a certified and licensed Arborist.
- During excavation operations in which roots are affected, the Contractor is to prune all exposed roots cleanly. Pruned root ends shall point obliquely downwards. The exposed roots should not be allowed to dry out. The Contractor shall discuss watering of the roots with the Owner and Contract Administrator prior to pruning to ensure that so that optimum soil moisture is maintained during construction and backfilling operations. Backfilling must be completed with clean, uncontaminated native topsoil.

SEEDING NOTES:

- All areas that have been disturbed by construction shall be seeded by the contractor unless otherwise noted. Remove all debris including all granular stone, wood and metal. Scarify all disturbed areas to eliminate compaction of topsoil. To prepare areas for seeding, spread, loosen and fine grade topsoil.
- Install seed over min. 150mm depth of topsoil.
- Contractor to ensure adequate seed mix catch. Seeded areas will be accepted provided that a sufficient amount of the seed has germinated and become established in the opinion of the Parks Canada.
- Maintenance for seeded areas shall begin immediately after installation and shall continue until acceptance by the Contract Administrator.

ARCHAEOLOGICAL RESOURCES:

- The project area has been tested for archaeological resources with negative results. All excavation work must keep within the defined boundaries. If an extension of the boundaries is needed the Parks Canada project manager must be informed and will consult with Parks Canada archaeologists to determine if further testing is needed.
- Although the area has been tested for archaeological resources there is a chance that cultural features and/or artifact concentrations may be encountered. If features (e.g. structural remains and/or artifact concentrations) are encountered, excavation work should stop in this area, photographs should be taken, and the Parks Canada project manager informed, Parks Canada will determine if adjustments to the work and resulting contract amendments are required.

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1	05.30.2016	CLIENT REVIEW	E.A. M.D.
NO.	DATE	DESCRIPTION	Drawn by Dessine par
			Approved Approuve

REVISIONS

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters Dimensions lineaires en millimetres



Canada

PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record /
Type d'enregistrement

Project title / Titre du projet
PO# 45360751-RNUP

**NORTHERN WELCOME AREA
MARKHAM, ONTARIO**

Drawing title / Titre du dessin
LANDSCAPE DETAILS

Plot Scale / Echelle
1:1 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par Date
E.A. --/--/2016

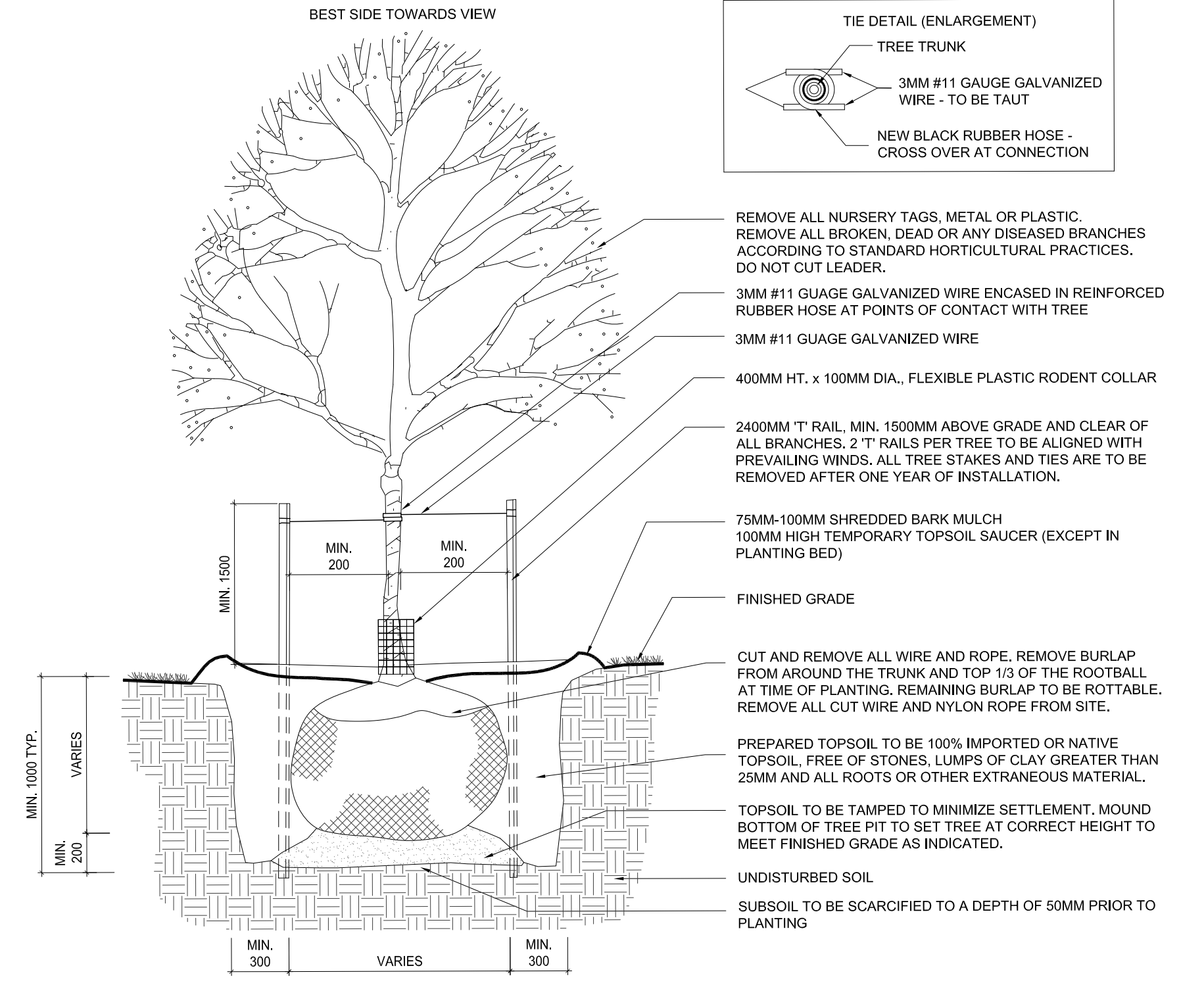
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Releve-Temoin par Date
-- --/--/2016

Approved by / Approuve par Date
M.D. --/--/2016

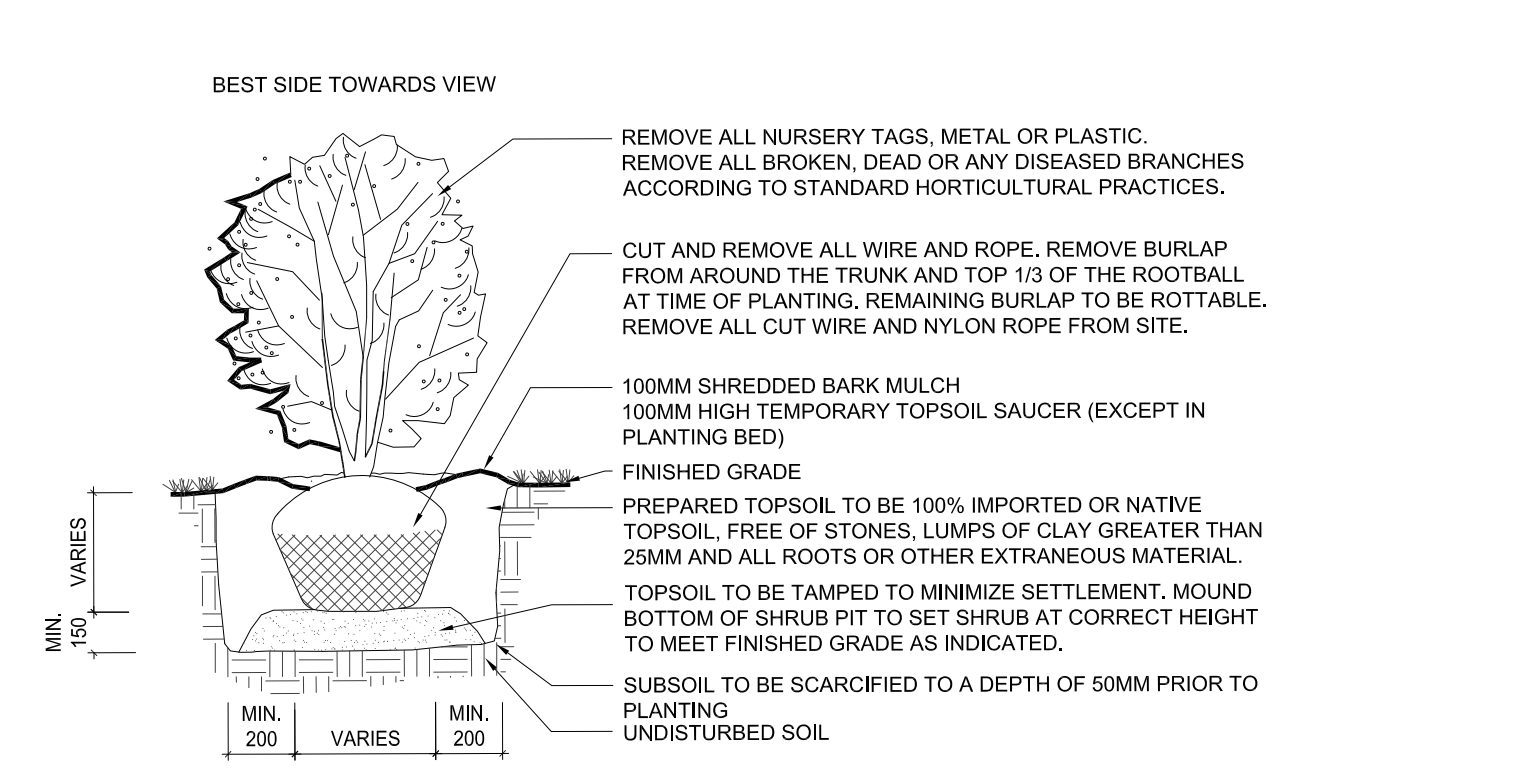
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Project No./ No. du projet Asset No. Sheet No./
160622334 - Feuille No.

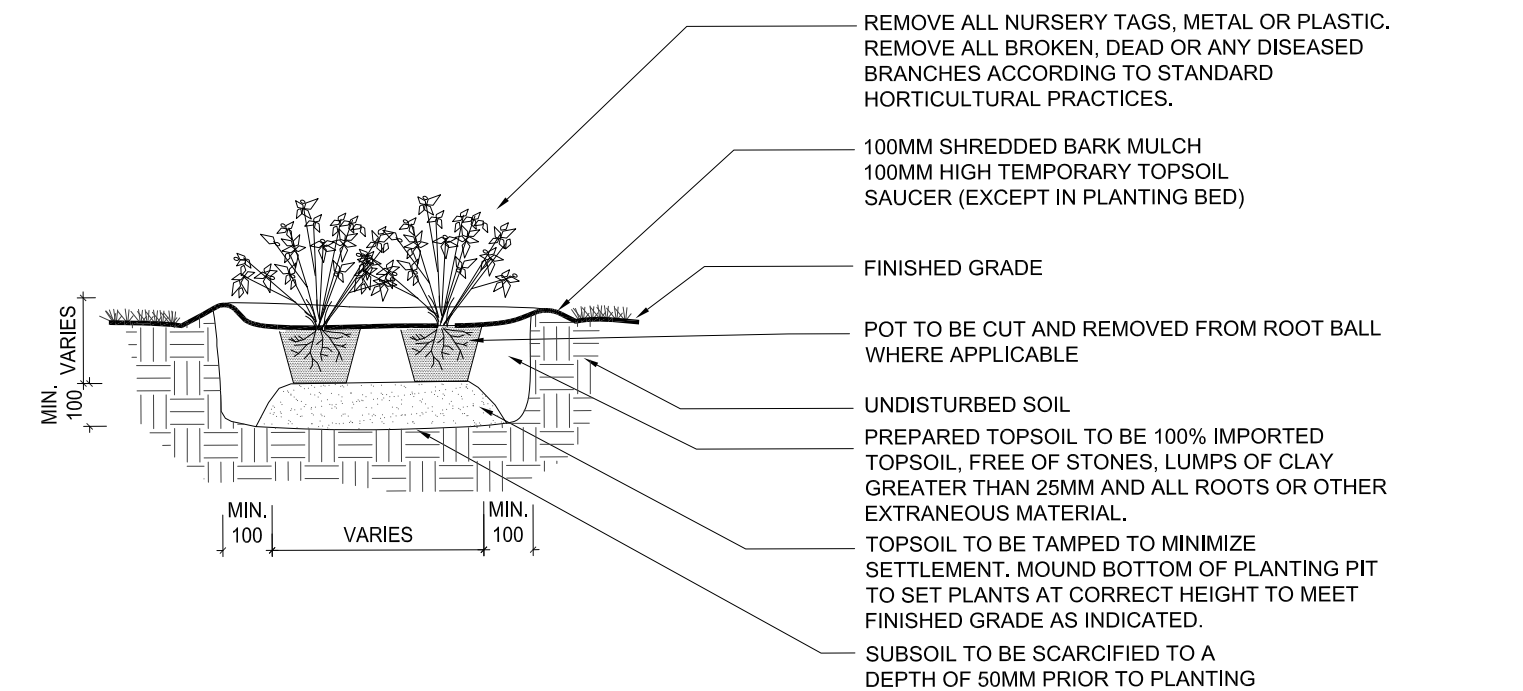
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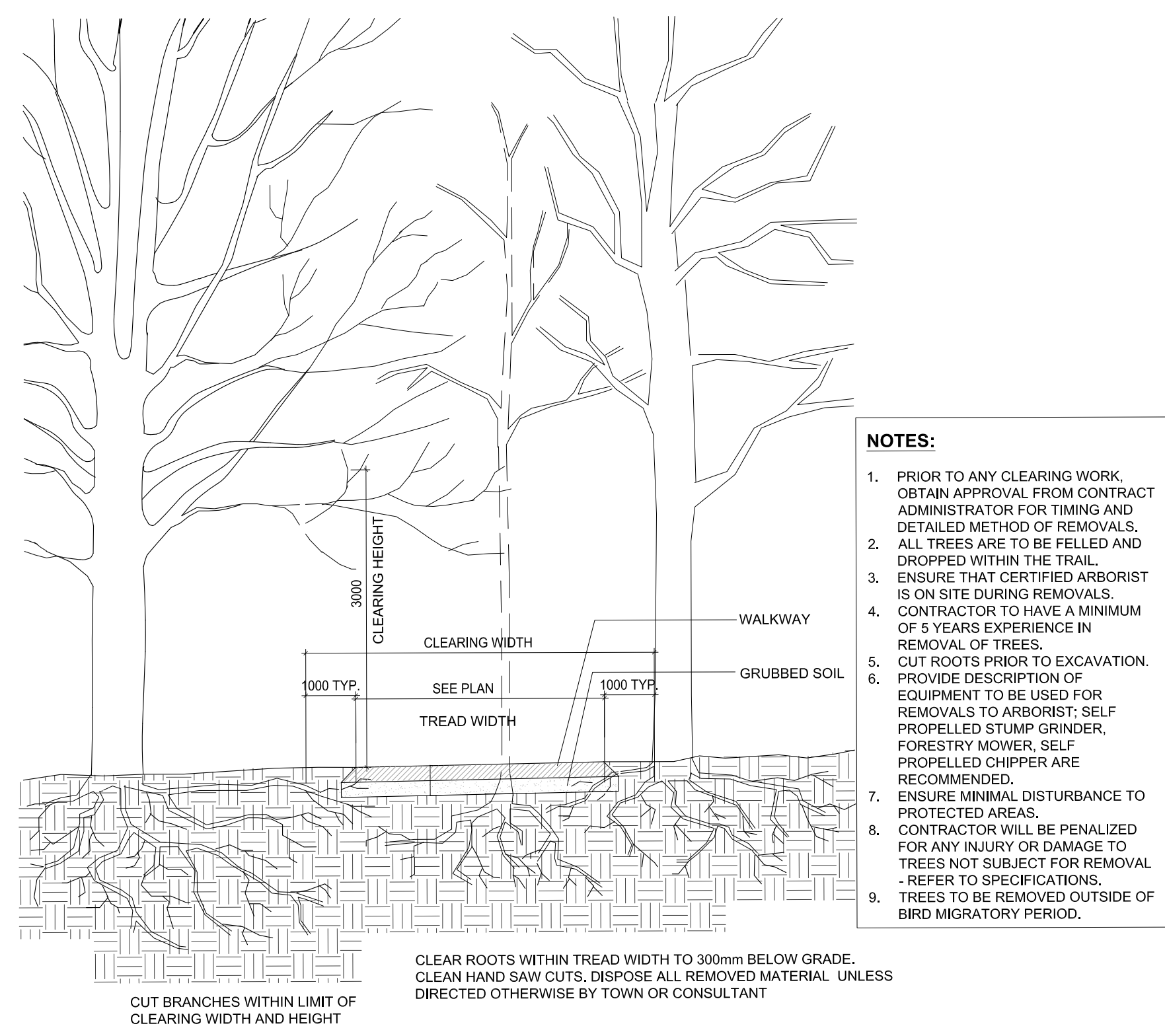
2 TYPICAL DECIDUOUS TREE PLANTING
SCALE: NTS - BALLED AND BURLAPPED TREE PLANTING DETAIL



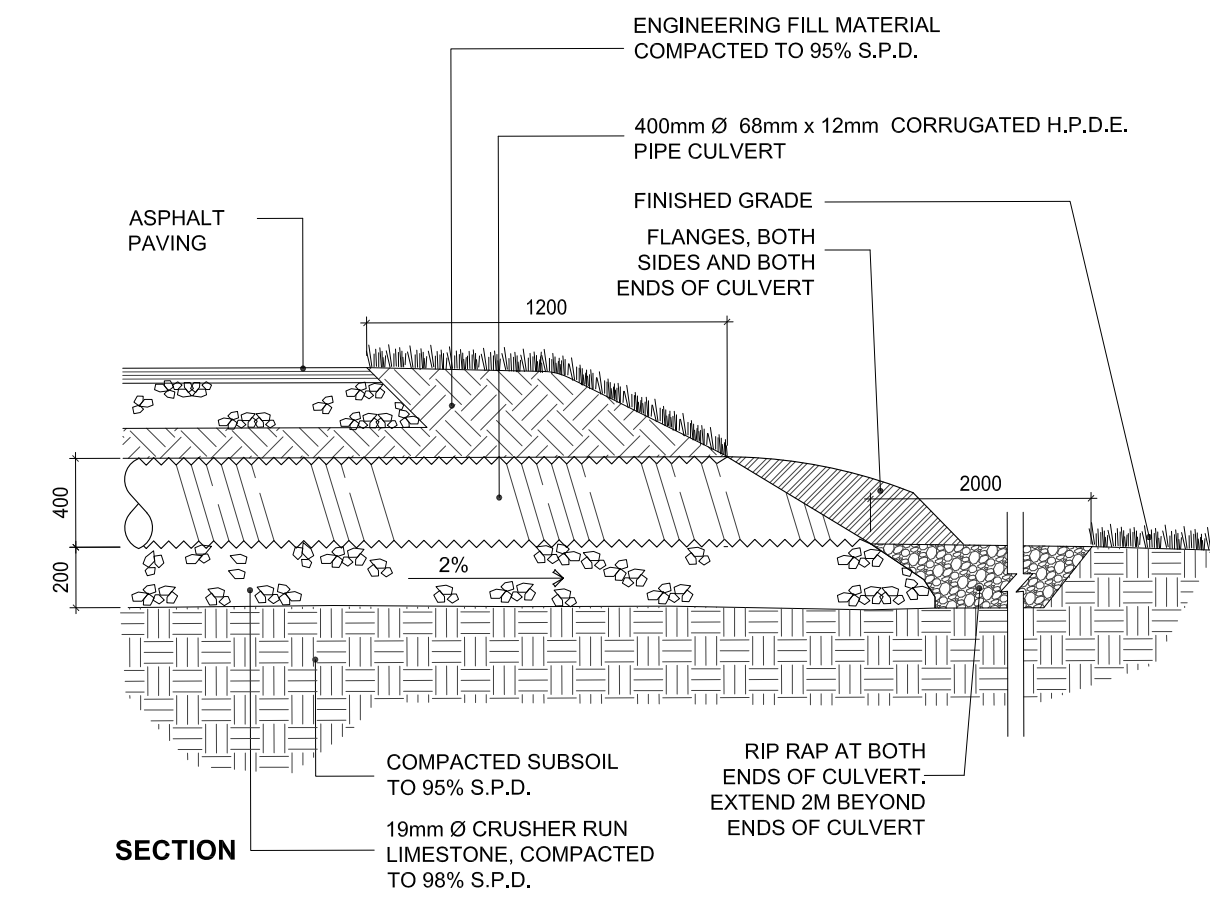
3 TYPICAL SHRUB PLANTING
SCALE: NTS - BALLED AND BURLAPPED SHRUB PLANTING DETAIL



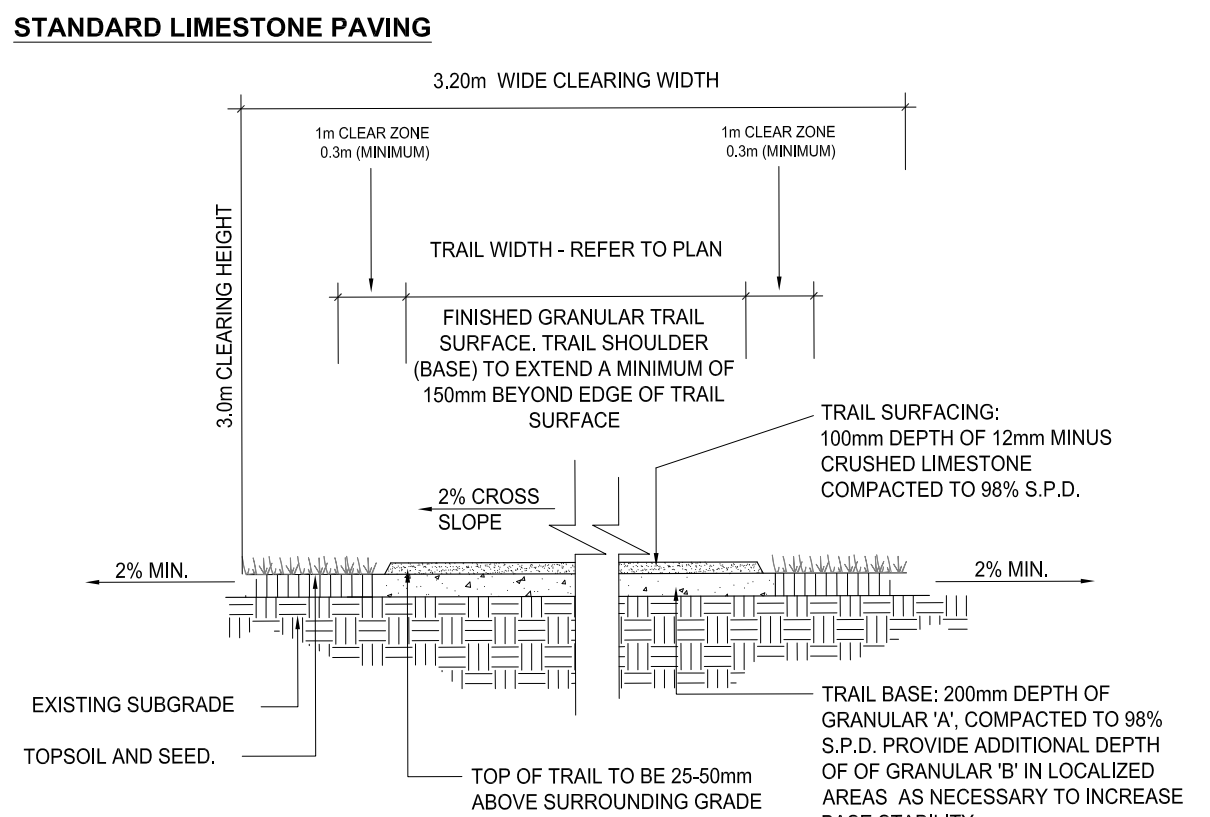
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SCALE: NTS



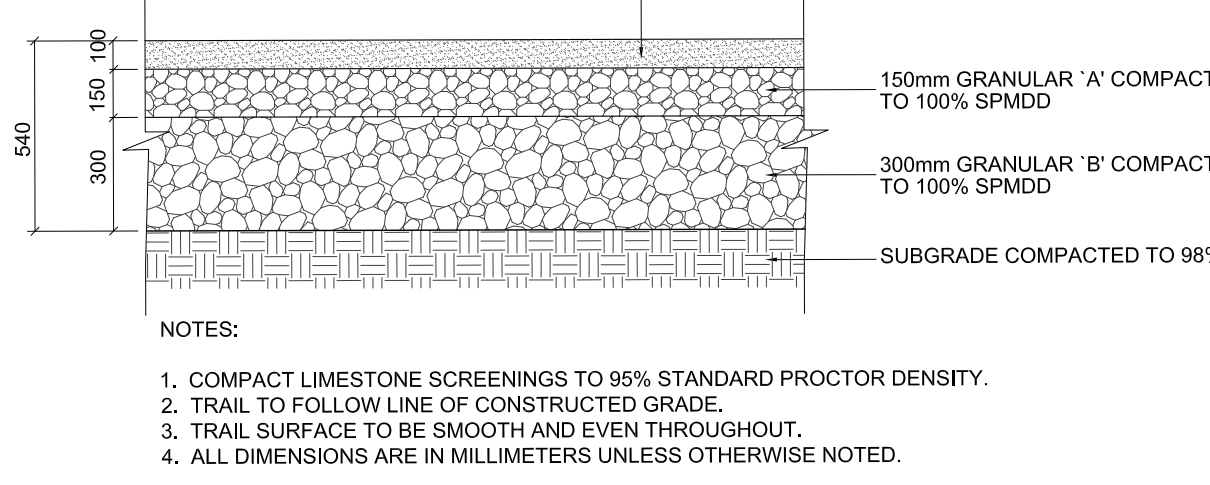
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SCALE: NTS



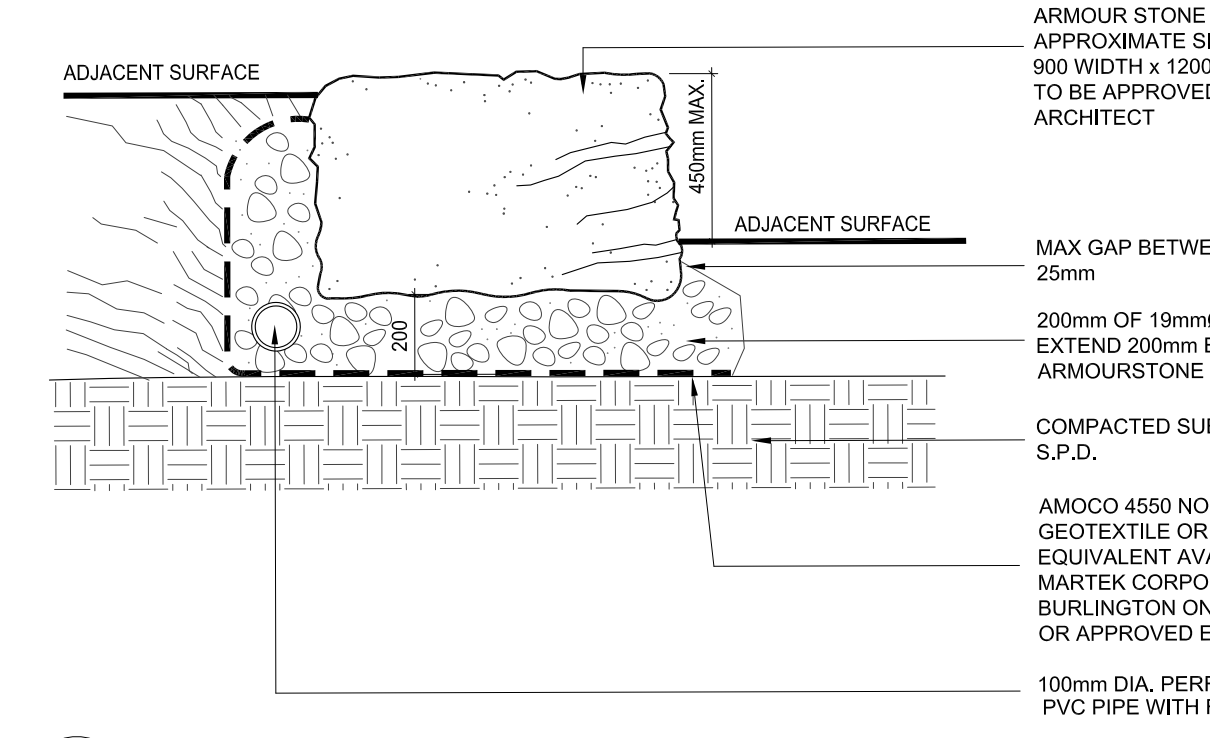
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SCALE: NTS



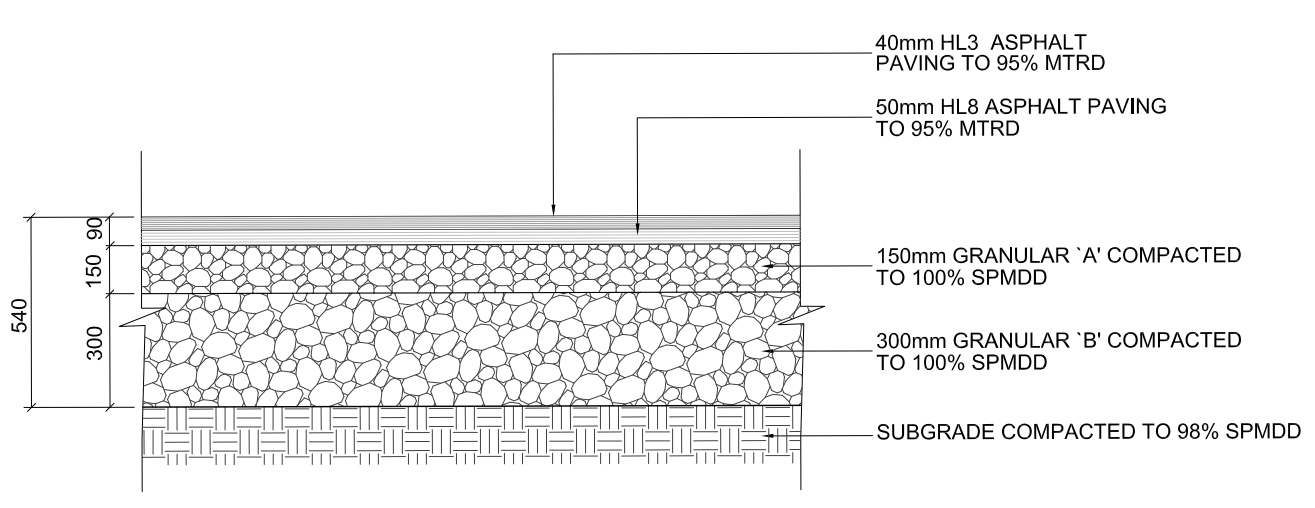
5 LIMESTONE PAVING
SCALE: NTS



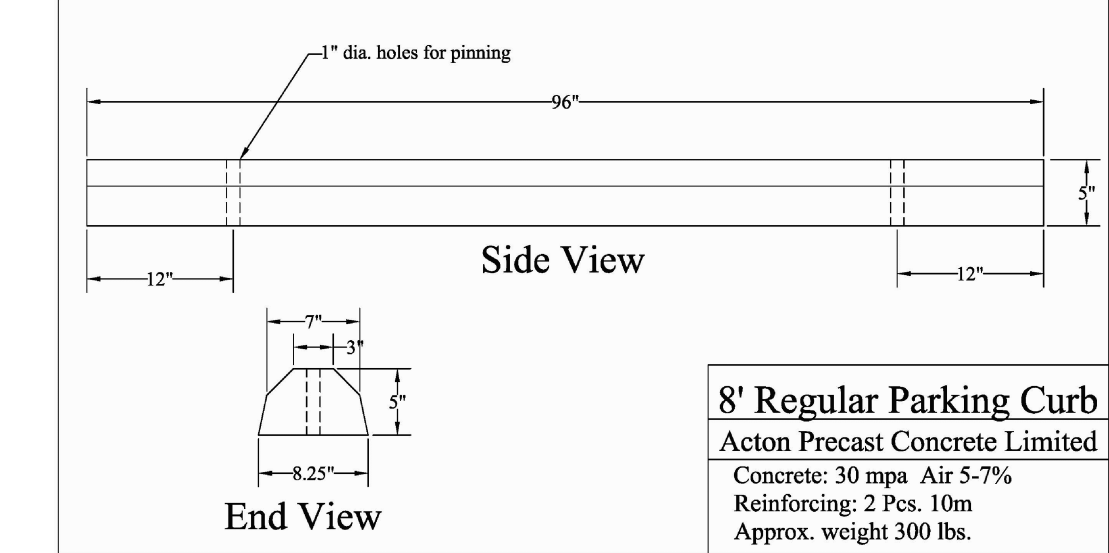
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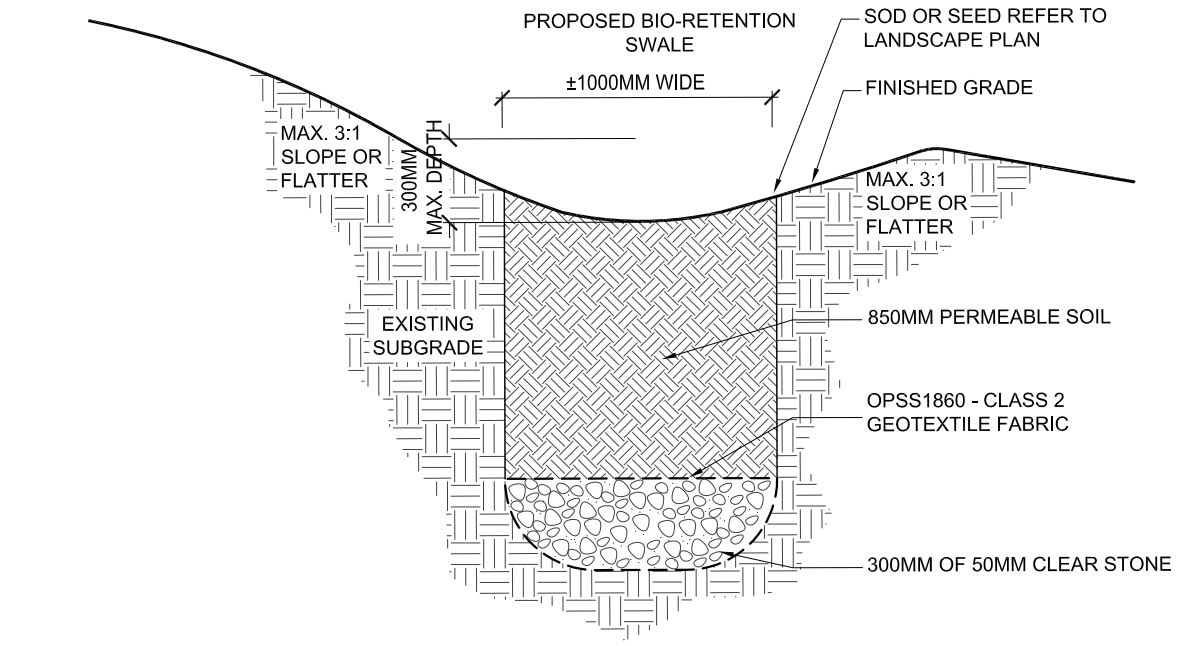
8 ARMOURSTONE SEATWALL/RETAINING WALL
SCALE: NTS



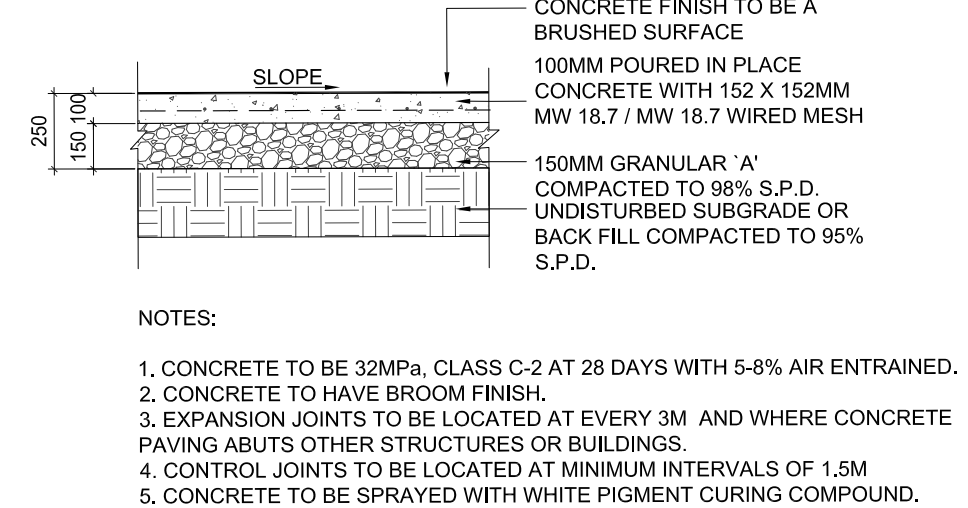
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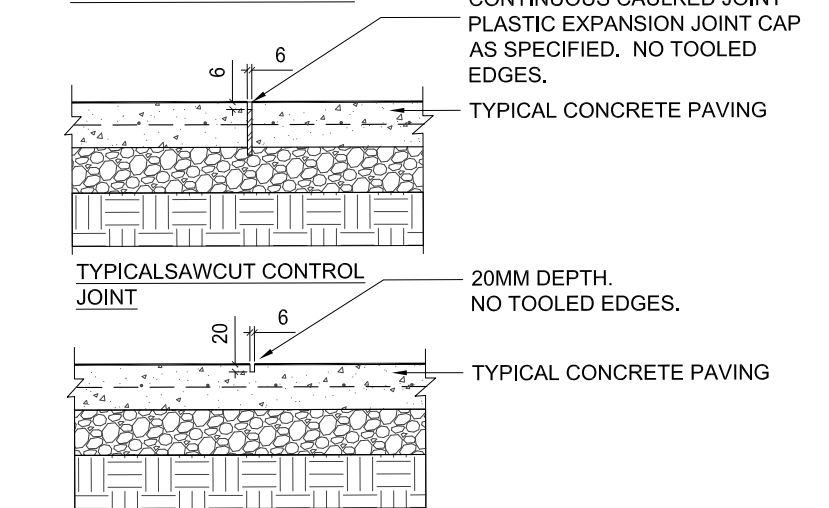
6 PRECAST CONCRETE PARKING CURB
SCALE: NTS



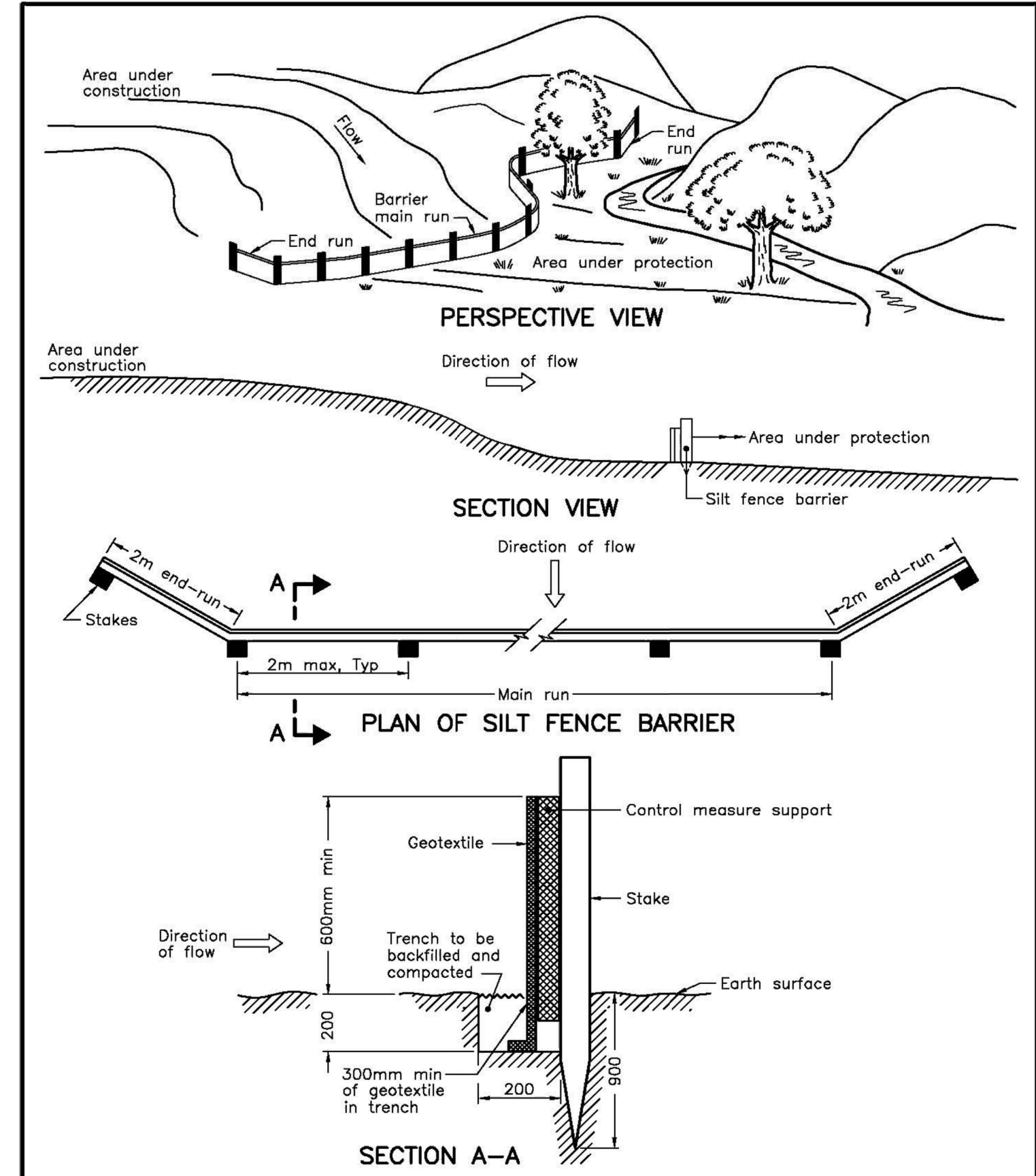
7 BIO-RETENTION SWALE
SCALE: NTS



3 CONCRETE PAVING
SCALE: NTS



4 CONCRETE JOINTING
SCALE: NTS



NOTE:
A All dimensions are in millimetres or metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		1996 02 01	Rev
HEAVY DUTY SILT FENCE BARRIER		Date	
		OPSD - 219.130	

9 SILT FENCE
SCALE: NTS

DRAWING NO.	DRAWING NAME			
XX	XXXX			
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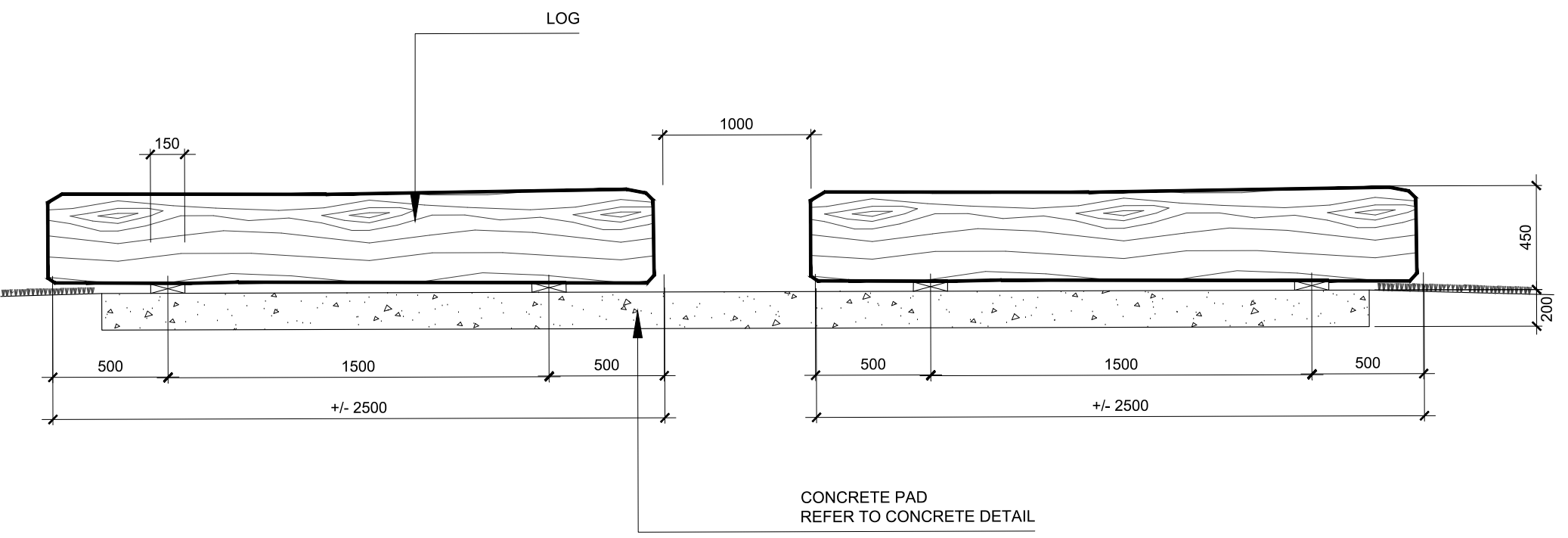
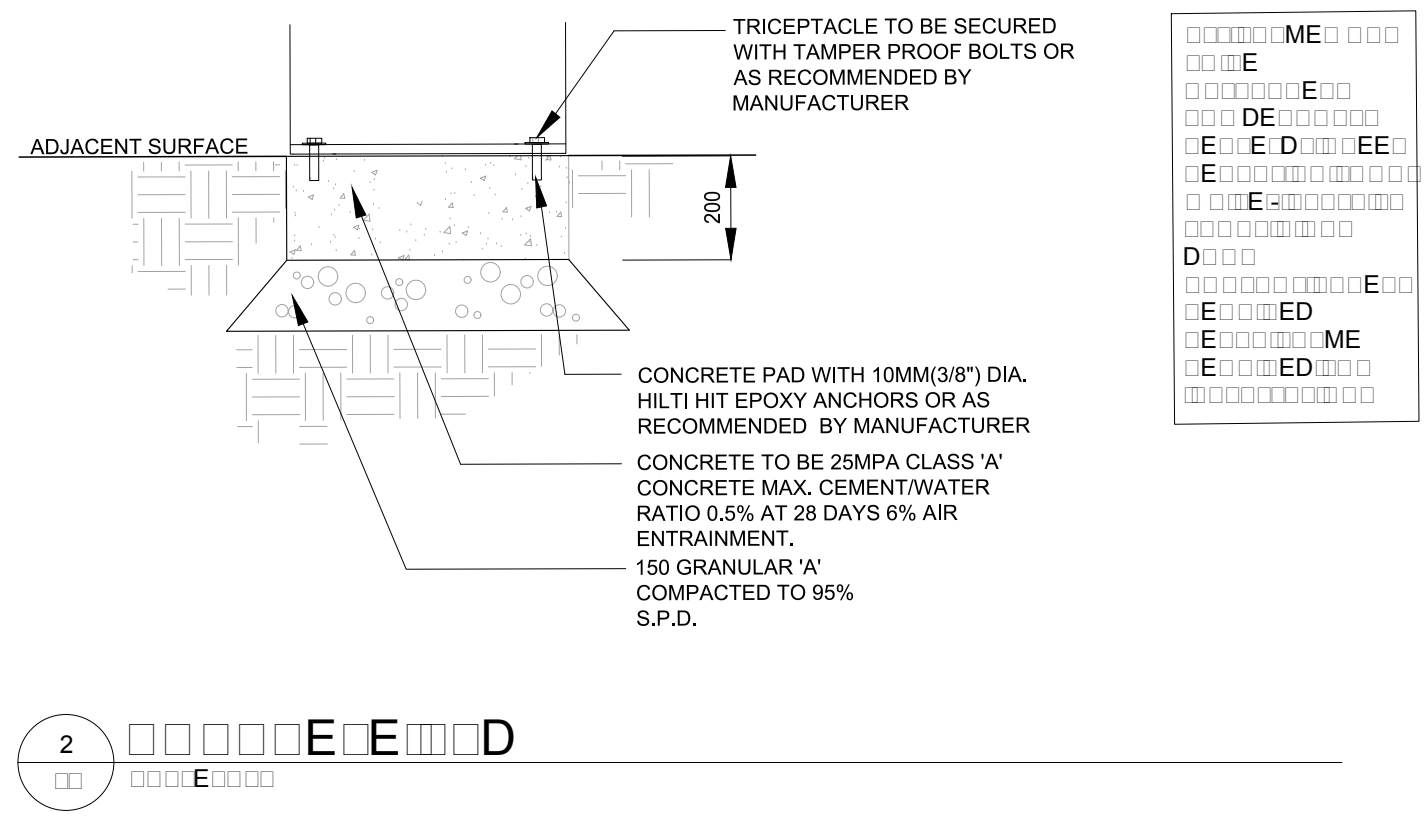
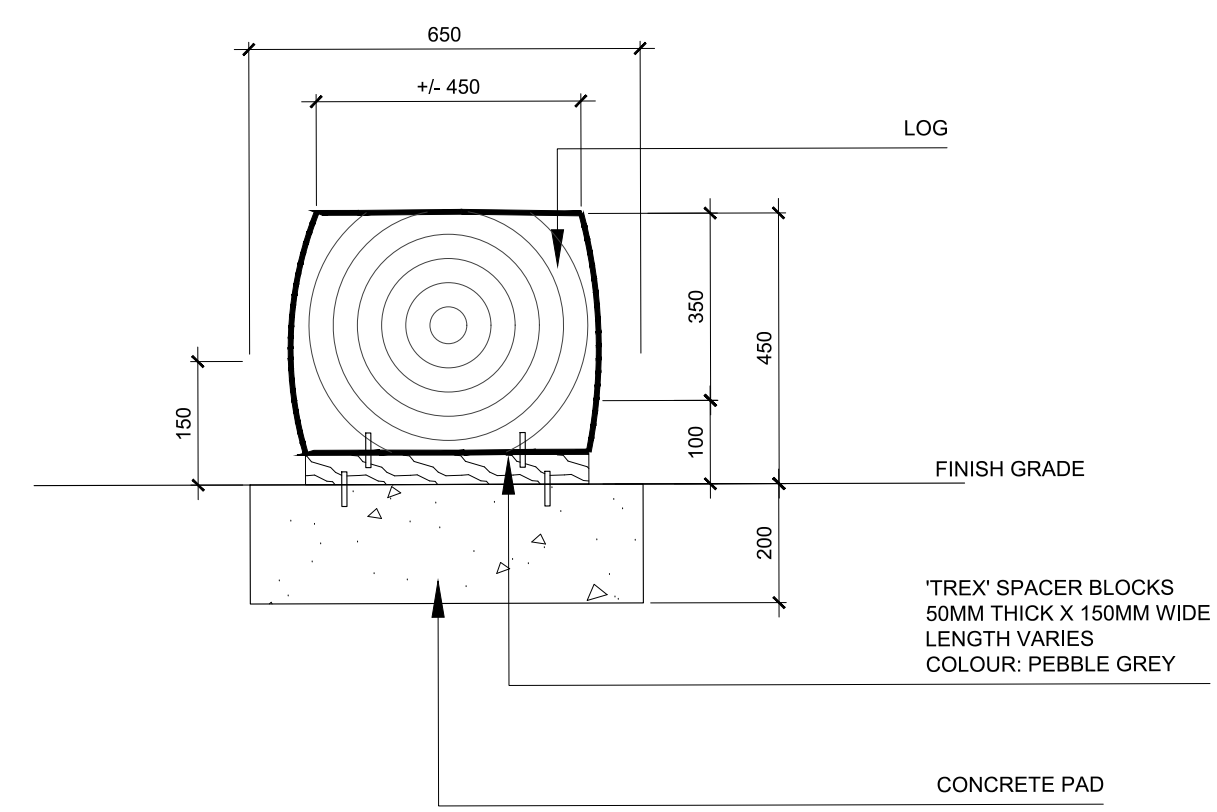
PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet
PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

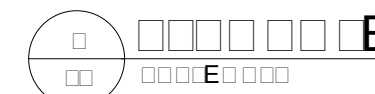
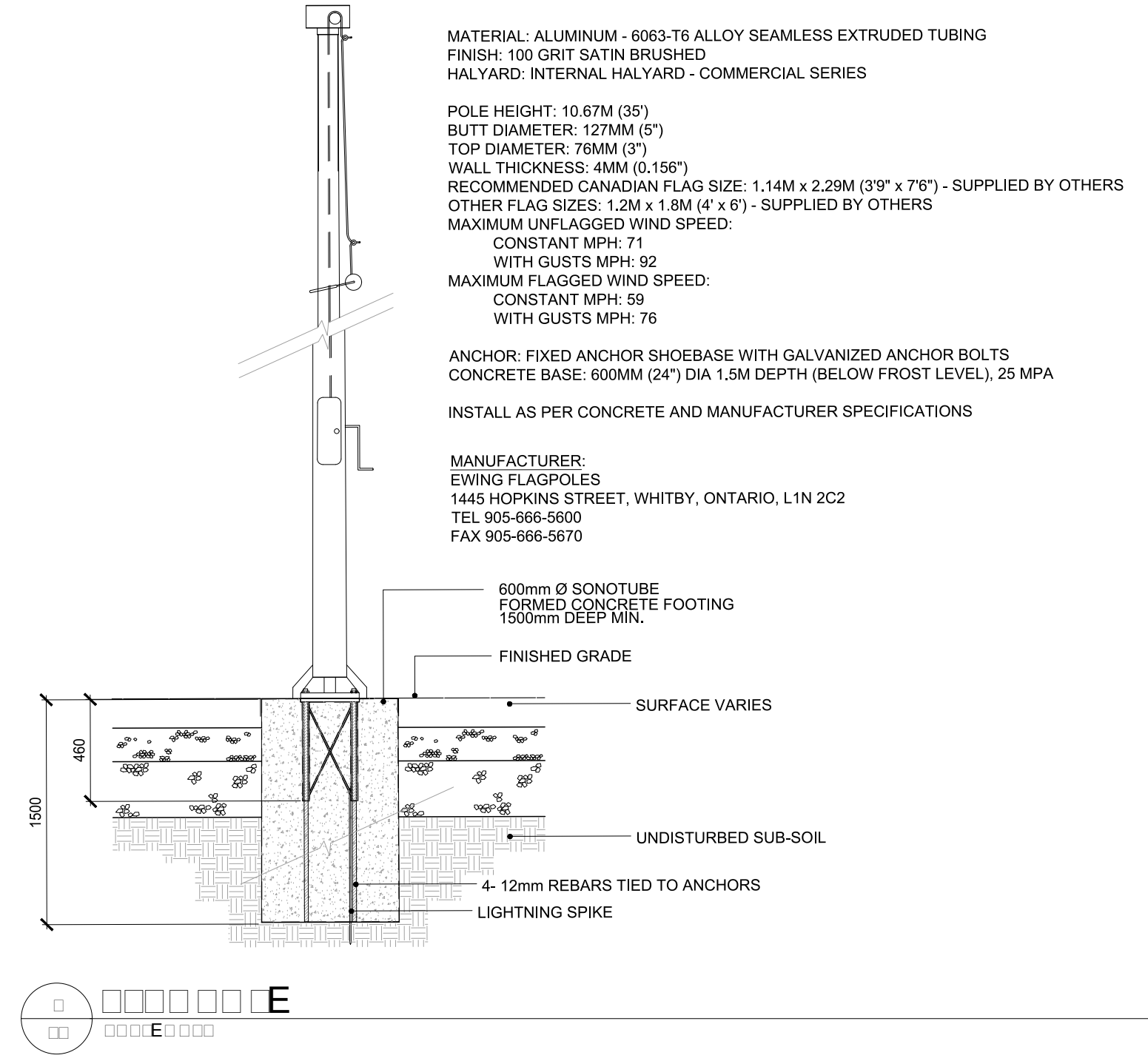
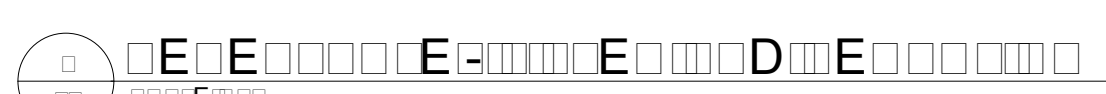
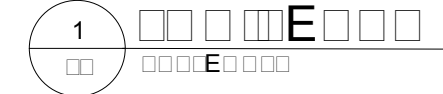
Drawing title / Titre du dessin

LANDSCAPE DETAILS		
Plot Scale / Echelle	1:1 (Arch D 24x36 Plot Size)	
Drawn by/ Dessine par	Date	
E.A.	--/--/2016	
Field Recording by / Releve-Temoin par	Date	
--	--/--/2016	
Approved by / Approuve par	Date	
M.D.	--/--/2016	
Checked by/ Verifie par	Date	
M.D.	--/--/2016	
Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
160622334	-	L3
Drawing Re No./No. du Dessin		
-		



FEATURE	DESCRIPTION	SPECIFICATION	ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
Capacity	Pull Out Bag Cage	8-14 cu. ft. 70 US Gallons (265L)	
	Poly Bag	2.5 mil 42 x 50 (1070 x 1270)	
	Optional Canvas Bag	Reusable	
Construction	Housing	14 Ga. (1.9) Galvalume Steel	
	Floor	12 Ga. (2.6) Galvalume Steel	
	User Door	14 Ga. (1.9) Galvalume Steel	
	Side Hinged Unloading Door	12 Ga. (2.6) Galvalume Steel	
	Hinges and Latches	Stainless Steel	
	Paint	Powder Coat	
	Sliding	Recycled Plastic	
Weights	Discovery Container	195 lbs (88kg)	
	Discovery Container with Sliding Kit	290lbs (132kg)	
	(Optional) with Pre-Cast Mounting Pad (CC-3901)	420lbs (190kg) 32x32x5.5 (813x813x140)	

NOTES:
 1. USE PRESAWN RECTANGULAR HEMLOCK LOGS (450X450X2500)
 2. STAIN WITH TWO COATS OF CLEAR STAIN, AS APPROVED BY CONTRACT ADMINISTRATOR



DRAWING NO.	DRAWING NAME
XX	XXXX

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	Drawn by	Approved
6	03.23.2018	ISSUED FOR TENDER	L.H	M.D.
5	02.01.2018	100% SUBMISSION	L.H	M.D.
4	11.03.2017	99% REVIEW	L.H./N.D.	M.D.
3	06.29.2017	66% REVIEW	E.A./L.H.	M.D.
2	06.29.2016	CLIENT REVIEW	E.A.	M.D.
1	05.30.2016	CLIENT REVIEW	E.A.	M.D.

REVISIONS

NO.	REVISION	DATE	BY	APPROVED
A	Detail number			Numero de detail
B	Sheet number			Sur feuille numero

Linear dimensions in millimeters / Dimensions lineaires en millimetres



PARKS CANADA / ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet

PO# 45360751-RNUP
 NORTHERN WELCOME AREA
 MARKHAM, ONTARIO

Drawing title / Titre du dessin

LANDSCAPE DETAILS

Plot Scale / Echelle
 1:1 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par
 E.A.

Date
 --/--/2016

Field Recording by / Releve-Temoin par
 --

Date
 --/--/2016

Approved by / Approuve par
 M.D.

Date
 --/--/2016

Checked by/ Verifie par
 M.D.

Date
 --/--/2016

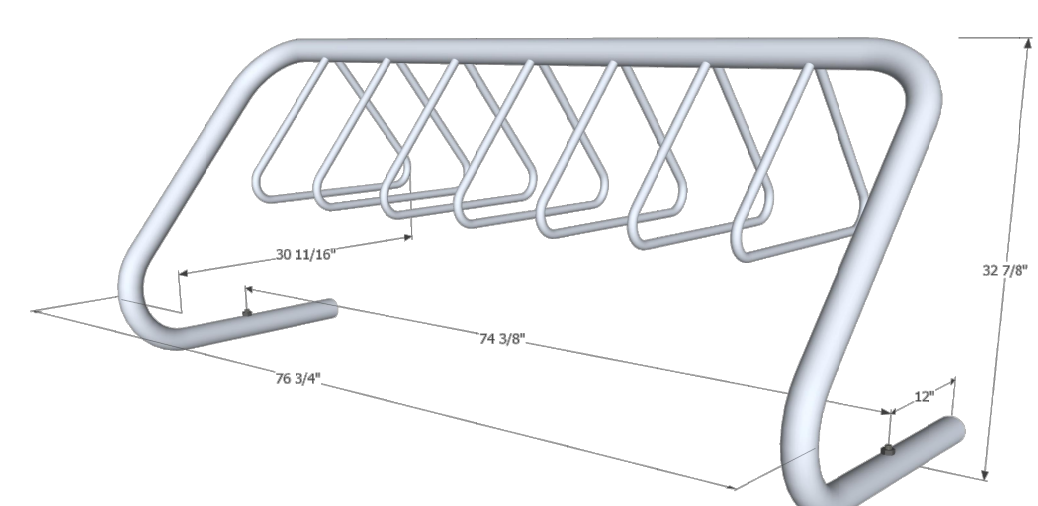
Project No./ No. du projet
 160622334

Asset No.
 -

Sheet No./ Feuille No.
 L4



EXPO W7510



	Width	Width (anchor to anchor)	Height	Depth	Capacity*
Imperial	76 1/4"	74 1/4"	32 1/4"	30 11/16"	10
Metric	195 cm	189 cm	83.5 cm	77.2 cm	

PO Box 1647 | Bellingham, WA 98227-1647 | T: 800-354-8624 | F: 800-354-8640

* Capacity is rated for double-sided access. Single-sided access reduces capacity by one-third.

FINISHES

Stainless Steel [SS]
 Materials Heavy duty high quality steels
 Mainframe C.R.W. ASTM A 312 TP 304L Stainless Steel Tube 2 3/8" OD
 Lock support T-304/304L 3/4" Cold Drawn Stainless Steel Round-bar
 Finish Electro polished to #7 Near Mirror Finish
 Weight 99 lbs
 Anchors 303 Grade Stainless Steel Wedge Anchors 1/2" x 5 1/2"

Galvanized [G]
 Materials Heavy duty high quality steels
 Mainframe C.R.W. ASTM A53 2 3/8" OD
 Lock support ASTM A108-03 3/4" Cold Rolled Round-bar
 Finish Hot dipped Galvanized Steel ASTM A123 & A153
 Weight 90 lbs
 Anchors Hot dipped Galvanized 1/2 inch X 5 1/2 inch Wedge Anchors

Powder coated [PC]
 Materials Heavy duty high quality steels
 Mainframe C.R.W. ASTM A53 2 3/8" OD
 Lock support ASTM A108-03 3/4" Cold Rolled Round-bar
 Finish 4-6 mils TGIC, UV resistant polyester powder coat color applied to steel sandblasted to near white
 Weight 90 lbs
 Anchors Hot dipped Galvanized 1/2 inch X 5 1/2 inch Wedge Anchors

OTHER MODELS

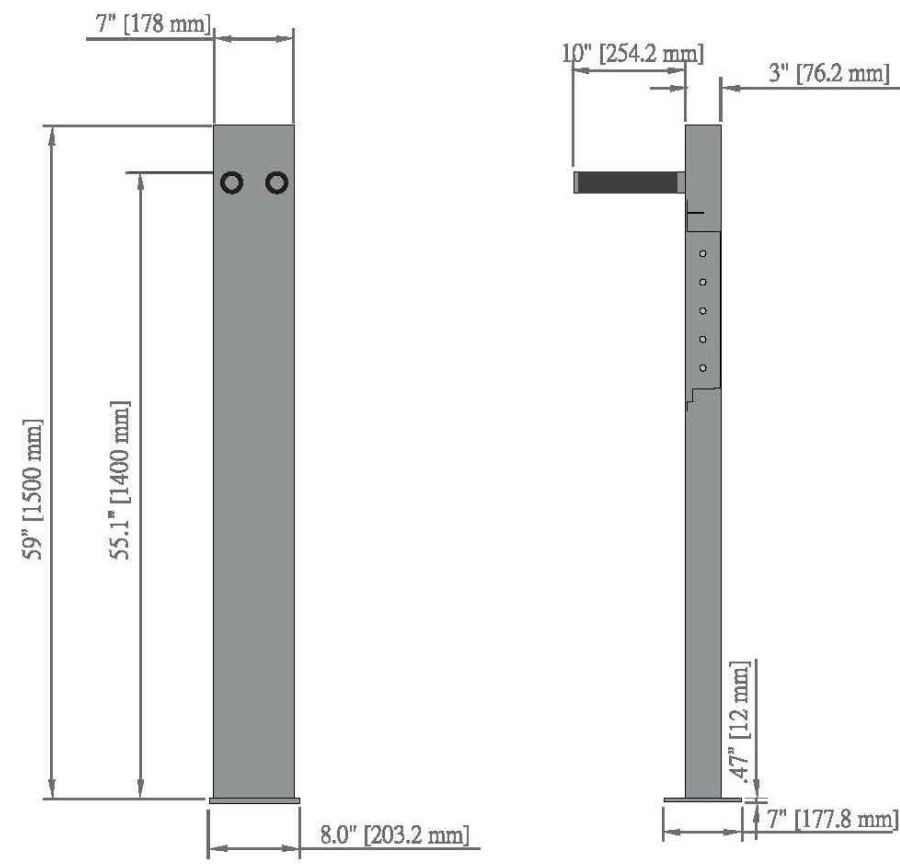


W2704 W3606 W4508



Urban High Security Bike Repair Stand

Model: URA-811-ECM-RS*T



Specifications

Main Features	
Optimum Working Height	
Lockable Tool Compartment	
10 Vital Tools	
Suitable for indoor or outdoor applications	
Weight	
Total weight	71.65 lbs [32.50 kg]
Materials	
Assembly material	Steel
Abrasion and slip resistant hanger	
Base thickness	0.47 in [12.00 mm]
Anti-theft feature	
Optional tamper-proof security bolts	
Available finishes	
Thermoplastic	
Hot Dipped Galvanized	

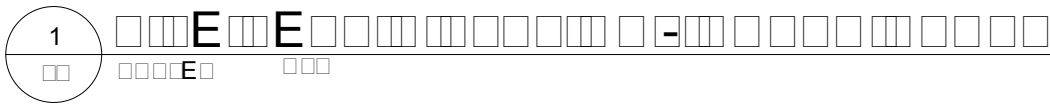
These drawings are not for construction purposes and are for information purposes only. All information contained herein was current at the time of development but must be reviewed and confirmed by Urban Racks to be considered accurate.



URBAN RACKS
 INNOVATIVE | BICYCLE PARKING
 1-888-717-8881 sales@urbanracks.com
 For more product and company information, please visit us at www.urbanracks.com

- Included Tools**
- Phillips Screwdriver
 - Stubby Phillips Screwdriver
 - Slotted Screwdriver
 - Stubby Slotted Screwdriver
 - 2 x Tire Levers
 - Adjustable Wrench
 - Combination Wrench
 - Multi Torx Set
 - Multi Hex Set (metric)

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IPL Series

Solar LED Integrated Architectural Area Light

Project: _____ **Quantity:** _____

Type: _____

The IPL series solar LED luminaire is an ideal choice for architectural, commercial, recreational bikeway/pathway and public space lighting applications. The self-contained, contemporary, curvilinear design smartly embraces modern solar power, adaptive coated and LED technologies. With robust construction and unsurpassed performance, the IPL series is an excellent fit whenever high-quality, full cut-off lighting and minimal visual clutter is required.

Utilizing solar power and LEDs, the IPL is completely self-contained and offers significant benefits over grid-based pathway lights including:

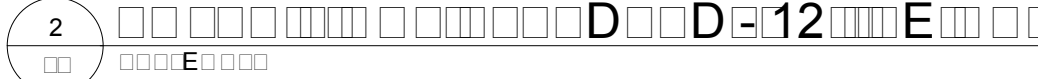
- Low installed cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Not affected by power outages
- Provide a visibly green statement without recurring carbon emissions

All of our solar powered lights are enabled by our Innovative Solar Lighting Controller (SLC). The SLC is smartly "self-learning" and allows the light to proactively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.

TECHNICAL SPECIFICATIONS

Solar Module:	<ul style="list-style-type: none"> High efficiency mono-crystalline cells Successively mounted on top of luminaire Used for day/night detector (no photocell required) 	LEDs and Optics:	<ul style="list-style-type: none"> 100,000 hour L70 lifetime Warm (3000K) and neutral (4000K) white color temperatures available High efficiency Type 2, 3, 4, and 5, full cut-off optics Typical lumen output from 650 to 1200 lumens
Solar Lighting Controller (SLC):	<ul style="list-style-type: none"> High-efficiency, intelligent compensated Maximum Power Point Tracking (MPPT) Micro-controller based technology Includes high efficiency LED driver Integrated into luminaire housing Designed to automatically manage lighting performance based on environmental conditions and lighting requirements 	Mechanical Construction:	<ul style="list-style-type: none"> Cast, low copper aluminum top, housing, and arms Stainless fasteners with security feature optic Architectural grade, super durable, TBC powder coat Four standard colors with custom colors available
Battery:	<ul style="list-style-type: none"> High performance Lithium (LiFePO₄) Exceptional 8-10 year life cycle High temperature tolerance Confined within luminaire housing Designed for easy battery changes when required 	Factory Set Lighting Profile:	<ul style="list-style-type: none"> On at dusk, off at dawn On at dusk, off after 6 hours On at dusk, dim to 30% after 6 hours till dawn On at dusk, off after 6 hours, on 1 hour before dawn On at dusk, dim to 30% after 5 hours, on 1 hour before dawn

FirstLight Technologies Ltd. | www.firstlighttechnologies.com | info@firstlighttechnologies.com | 1.844.279.8754



IPL Series

Solar LED Integrated Architectural Area Light

Project: _____ **Quantity:** _____

Type: _____

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PHOTOMETRICS (IES files available on request)

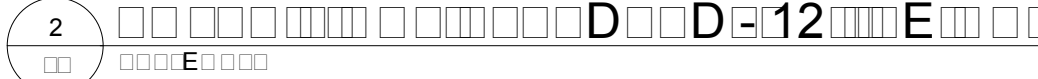
If you have any questions, please don't hesitate to call us toll free at 1-844-279-8754 (USA & Canada).

ORDER MATRIX

Series	Mounting	Finish	Distribution	LED Color	Lighting Profile	Options
IPL	PTM - Post Top Mount	BL - Black	T2 - Type 2	WW - 3000K	01 - Dark off beam	SEC - Security fasteners
		BR - Bronze	T3 - Type 3	WW - 4000K	02 - Dark off beam then off	
		GR - Silver	T4 - Type 4	WW - 4000K	02 - Dark off beam then 30%	
		WH - White	T5 - Type 5	WW - 4000K	04 - Dark off beam, off, Dawn - 1 hour	
		GR - Custom			04 - Dark off beam, 30%, Dawn - 1 hour (SPECIAL)	

Notes: *Photometrics based on 10' mounting height. Specifications subject to change without notice. **Light sensor is not available for 4000K color temperature and 800 lumen output. **To convert to lux multiply light level by 10.7

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DRAWING NO.	DRAWING NAME
XX	XXXX

REFERENCE DRAWINGS				
6	03.23.2018	ISSUED FOR TENDER	L.H	M.D.
5	02.01.2018	100% SUBMISSION	L.H	M.D.
4	11.03.2017	99% REVIEW	L.H./N.D.	M.D.
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2	06.29.2016	CLIENT REVIEW	E.A.	M.D.
1	05.30.2016	CLIENT REVIEW	E.A.	M.D.

REVISIONS			
NO.	DATE	DESCRIPTION	Drawn by / Approved / Dessiné par / Approuvé

Canada

PARKS CANADA
 ROUGE NATIONAL URBAN PARK FIELD UNIT

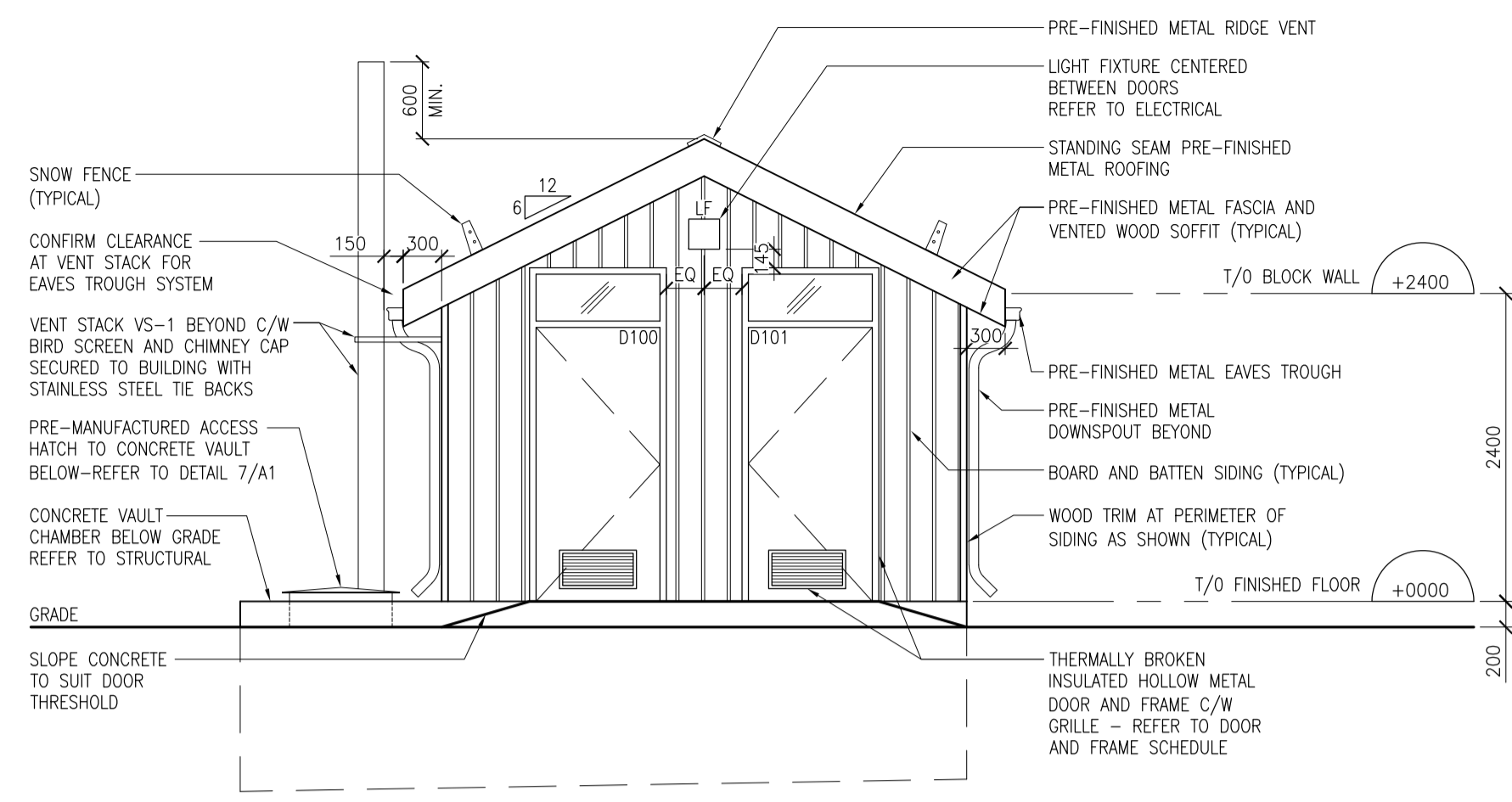
Linear dimensions in millimeters / Dimensions linéaires en millimètres

Type of Record / Type d'enregistrement

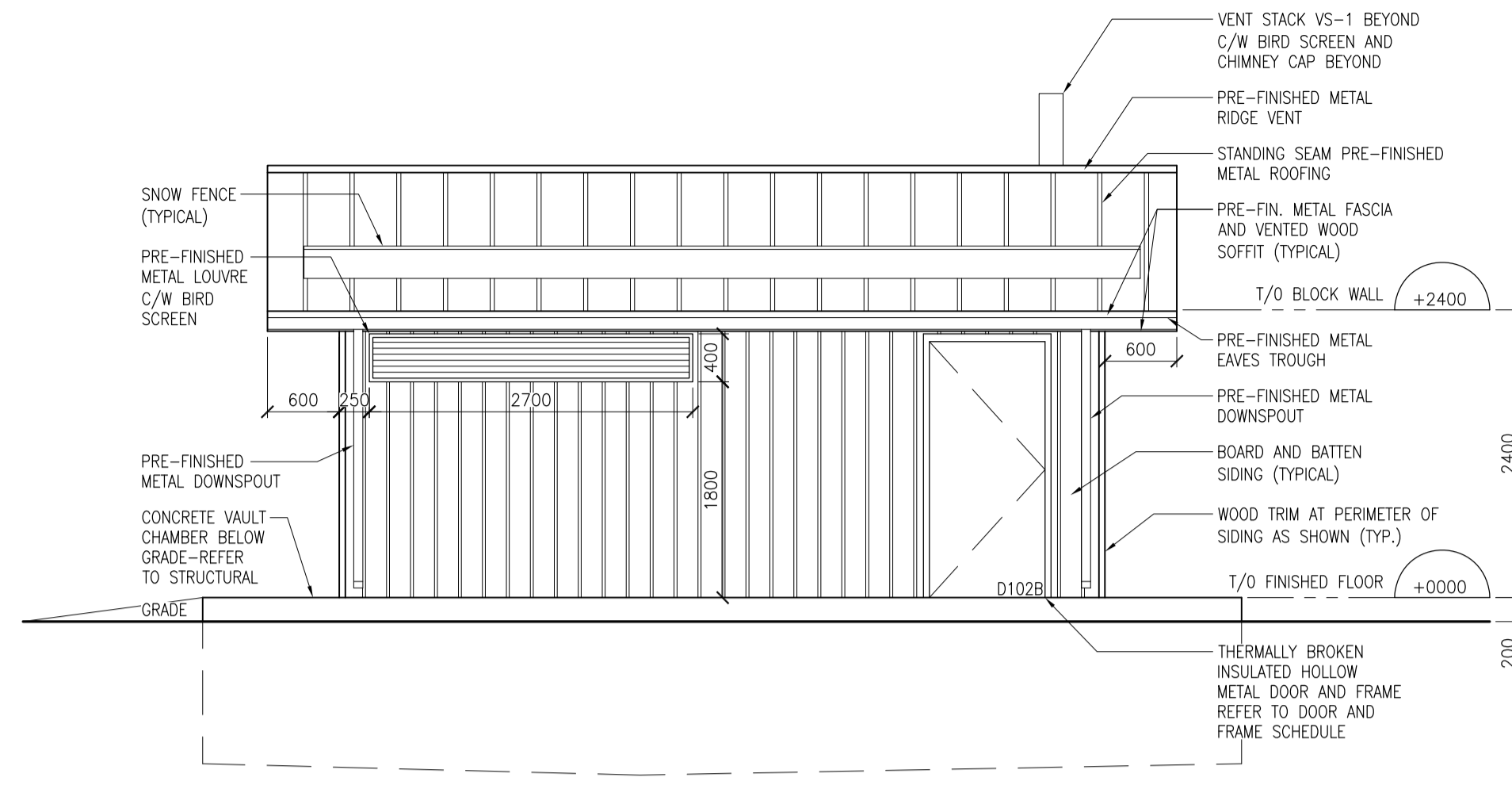
Project title / Titre du projet
PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
LANDSCAPE DETAILS

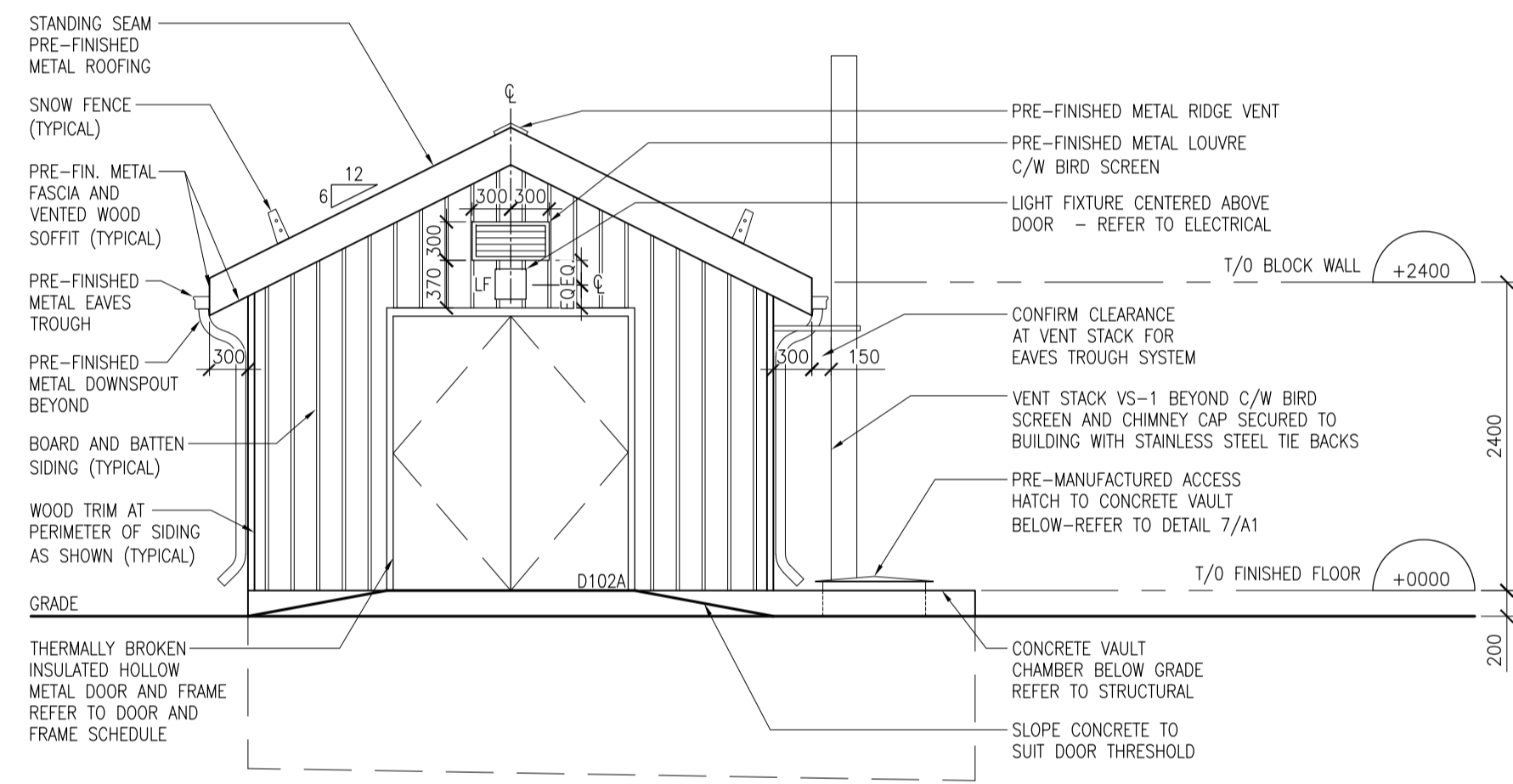
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Drawn by / Dessiné par	E.A.	Date: --/--/2016
Field Recording by / Relevé-Temoïn par	__	Date: --/--/2016
Approved by / Approuvé par	M.D.	Date: --/--/2016
Checked by / Verifié par	M.D.	Date: --/--/2016
Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
160622334	-	L5
Drawing Re No./No. du Dessin	-	



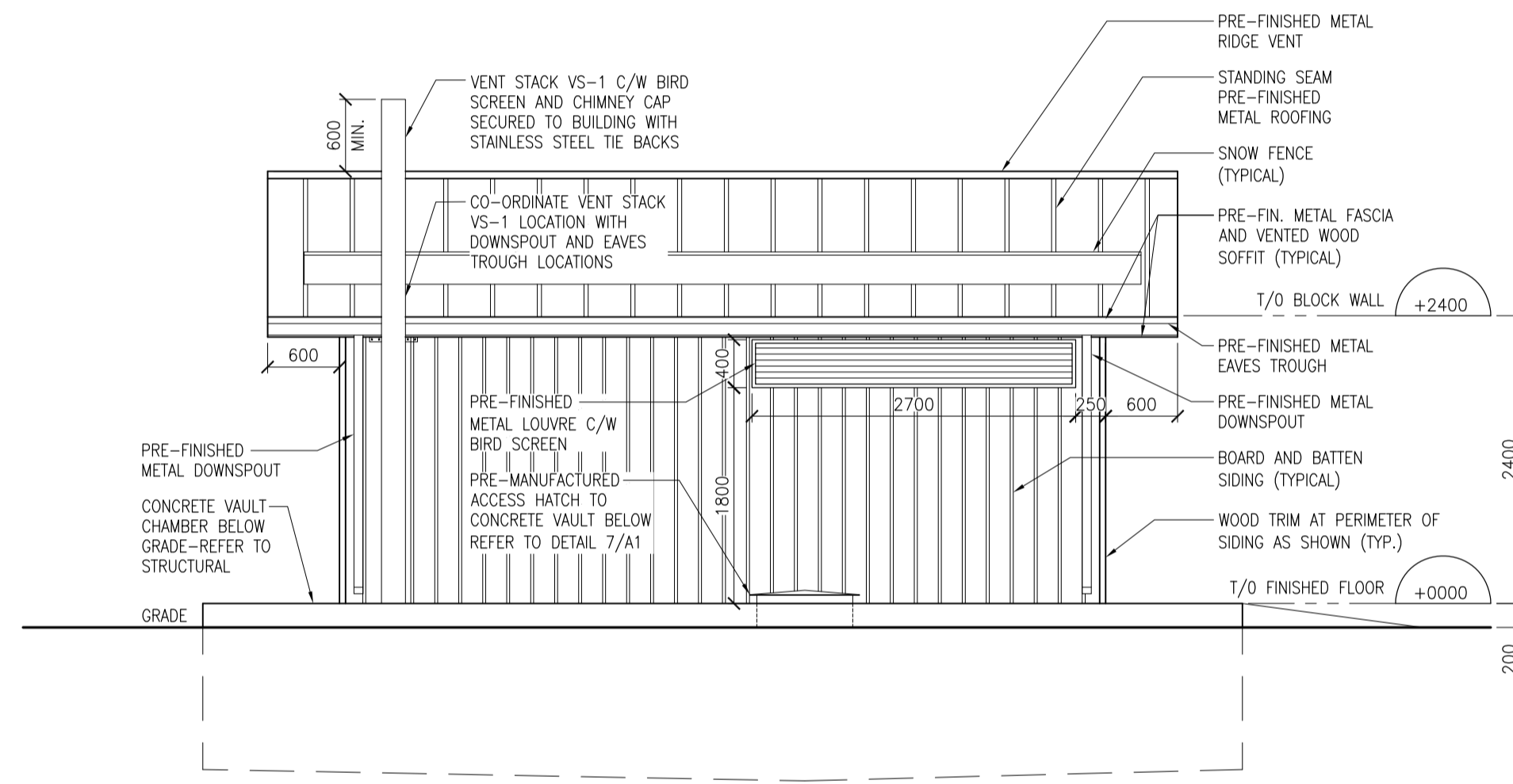
2 WASHROOM ELEVATION - SOUTH
A1 1:50



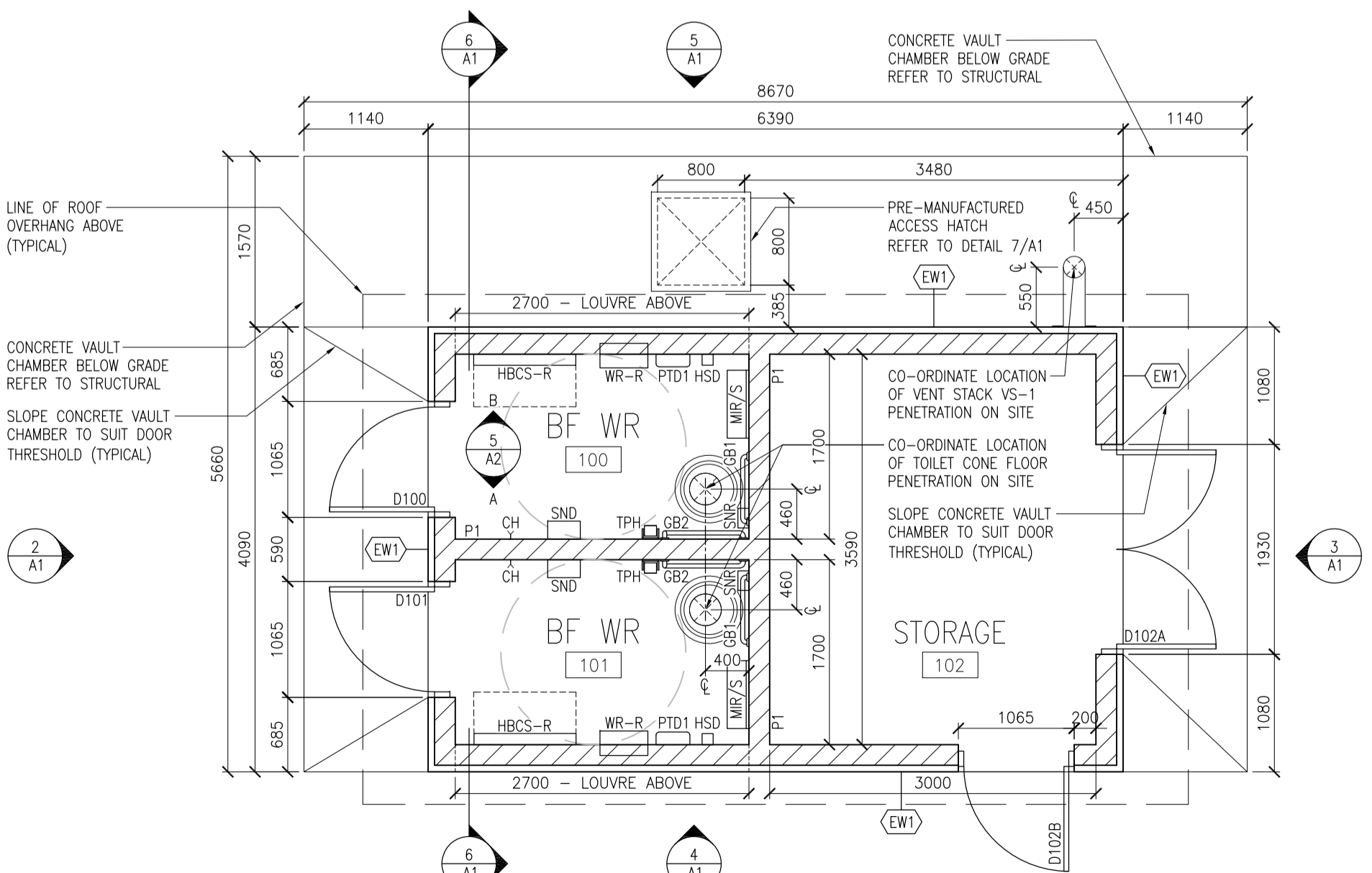
4 WASHROOM ELEVATION - EAST
A1 1:50



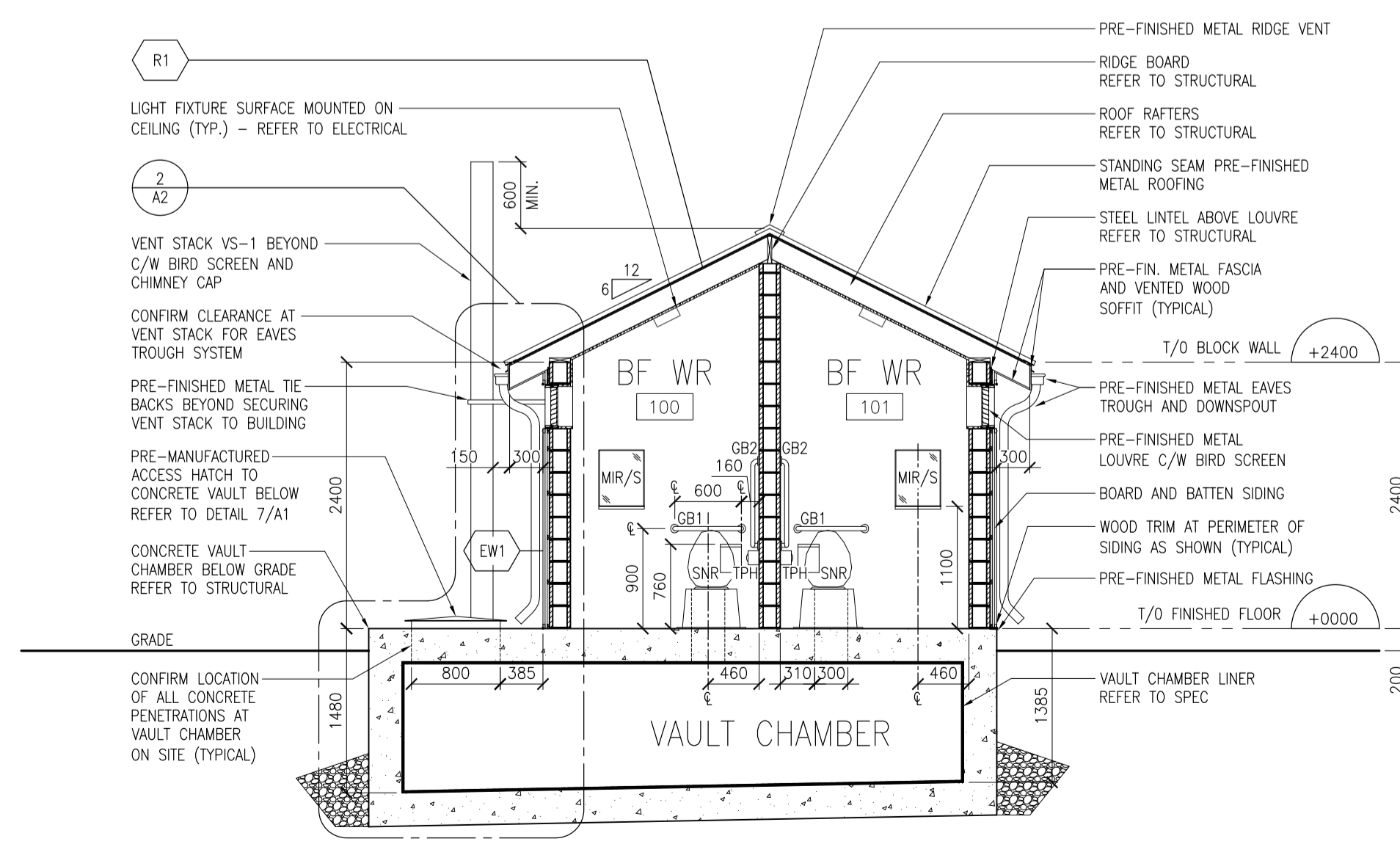
3 WASHROOM ELEVATION - NORTH
A1 1:50



5 WASHROOM ELEVATION - WEST
A1 1:50



1 FLOOR PLAN
A1 1:50



6 BUILDING CROSS SECTION
A1 1:50

ARCHITECTURAL DRAWING LIST

- WR BUILDING:
A1 WASHROOM - FLOOR PLANS, ELEVATIONS AND SECTION
A2 WASHROOM - RCPS, SCHEDULES AND WR ELEVATIONS
- PICNIC SHELTER BUILDING:
A3 PICNIC SHELTER - FLOOR PLAN, ELEVATIONS AND SECTION

NOTES

- UNLESS NOTED OTHERWISE ALL PARTITIONS ARE P1.
- ALL PARTITION AND FURRING TYPES TO EXTEND TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED. HALF HEIGHT WALLS ARE NOTED DIRECTLY ON PLANS

ABBREVIATIONS

CL	CENTER LINE OF OBJECT	CH	COAT HOOK
C/W	COMPLETE WITH	TPH	TOILET PAPER HOLDER
T/O	TOP OF OBJECT	HSD	HAND SANITIZER DISPENSER
MIN.	MINIMUM	SNR	SANITARY NAPKIN RECEPTACLE
TYP.	TYPICAL	SND	SANITARY NAPKIN DISPENSER
NC	NOT IN CONTRACT	GB1	GRAB BAR - STRAIGHT
EQ.	EQUAL	GB2	GRAB BAR - L SHAPED
BF	BARRIER FREE	MIR/S	MIRROR WITH SHELF
WR	WASHROOM	PTD1	PAPER TOWEL DISPENSER
LF	LIGHT FIXTURE - REFER TO ELECTRICAL	HBCS-R	HORIZONTAL BABY CHANGE STATION
		WR-R	WASTE RECEPTACLE

EXTERIOR WALL TYPES



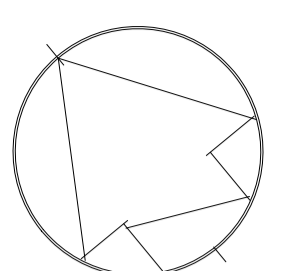
ROOF TYPES



INTERIOR PARTITION TYPES



7 DETAIL - ACCESS HATCH
A1 1:10



DRAWING NO.	DRAWING NAME			
REFERENCE DRAWINGS				
5	03/23/18 ISSUED FOR TENDER K.R. B.M.			
4	01/25/18 100% SUBMISSION K.R. B.M.			
3	09/19/17 99% CLIENT REVIEW S.N. B.M.			
2	06/15/17 66% CLIENT REVIEW T.J. B.M.			
1	05/07/17 CLIENT REVIEW M.G. B.M.			
NO.	DATE	DESCRIPTION	Drawn by	Approved
			Dessine par	Approuve
REVISIONS				
A	A	Detail number	A Numero de detail	
B	B	Sheet number	B Sur feuille numero	

Linear dimensions in millimeters / Dimensions lineaires en millimetres



Canada

PARCS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet

PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin

WASHROOM FLOOR PLAN, ELEVATIONS & SECTION

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
E.A. ---/---/2016

Field Recording by / Releve-Temoin par
--- ---/---/2016

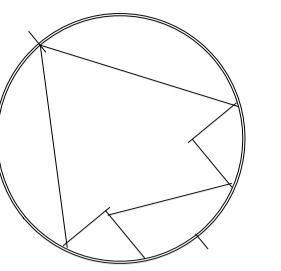
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M.D. ---/---/2016

Checked by / Verifie par
M.D. ---/---/2016

Project No./ No. du projet
160622334

Asset No. / Feuille No.
- A1

Drawing Re No./No. du Dessin
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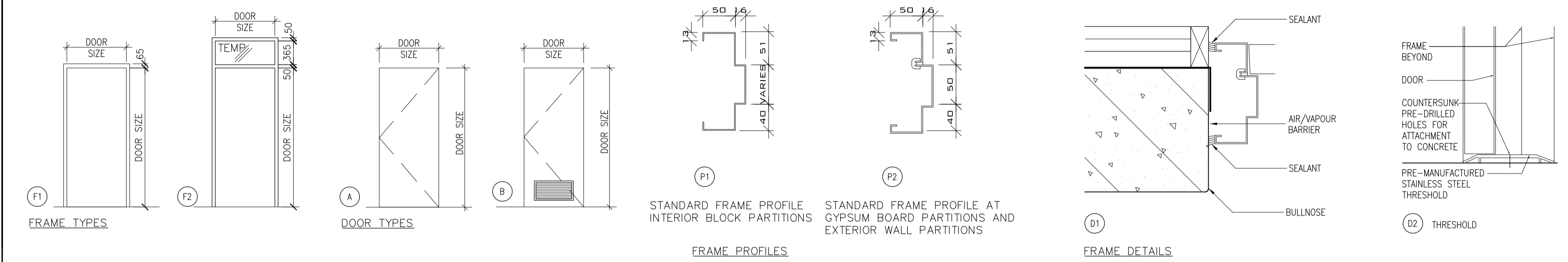
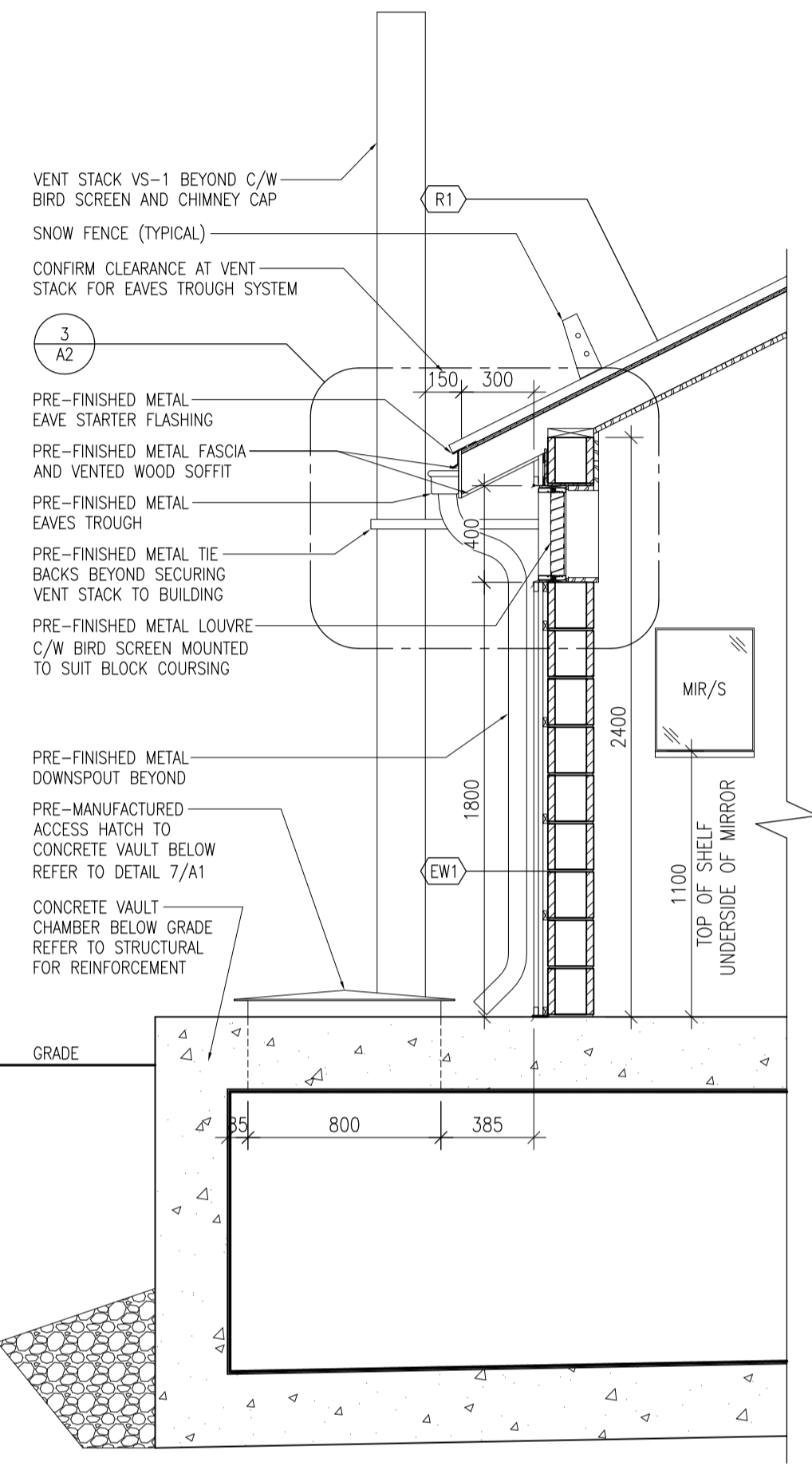


DOOR SCHEDULE																
FRAME							DOOR									
DOOR #	TYPE	MATL.	FIN.	PROF.	POSN.	DETAIL	GLASS	SIZE	TYPE	MATL.	FIN. COLR.	GLASS	GRILLE U/C	FIRE RATING	HRDWR	REMARKS
D100	F2	HM	PT	P2	-	D1+D2	TEMP	965x2135x45	B	HM	PT	-	GRILLE	-		GLASS TRANSOM
D101	F2	HM	PT	P2	-	D1+D2	TEMP	965x2135x45	B	HM	PT	-	GRILLE	-		GLASS TRANSOM
D102A	F1	HM	PT	P2	-	D1+D2	-	2-915x2135x45	A	HM	PT	-	-	-		FRAME TO BE 65mm AT HEAD ONLY TO SUIT CONCRETE BLOCK COURSING
D102B	F1	HM	PT	P2	-	D1+D2	-	965x2135x45	A	HM	PT	-	-	-		FRAME TO BE 65mm AT HEAD ONLY TO SUIT CONCRETE BLOCK COURSING

- DOOR SCHEDULE NOTES:**
- DOOR FRAME SIZES ARE FRAME REBATE SIZES.
 - FILL FRAME JAMES SOLID WITH MORTAR WHERE THEY OCCUR IN POURED CONCRETE OR MASONRY WALLS.
 - FIRE RATINGS NOTED IN THE DOOR AND SCREEN SCHEDULE INCLUDES DOORS, FRAMES, SCREENS, GLAZED LIGHTS AND HARDWARE. CONFIRM MAXIMUM GLASS SIZE PERMITTED FOR RATINGS INDICATED.
 - SUB-CAULK ALL DOOR THRESHOLDS.
 - ALL DOORS, FRAMES AND SCREENS SCHEDULED TO RECEIVE HARDWARE MUST BE FABRICATED, REINFORCED AND PREDRILLED TO SUITE HARDWARE.
 - COORDINATE WITH DOOR AND SCREEN SCHEDULE FOR DETAILS OF LABELED DOORS, FRAMES AND SCREENS.
 - PROVIDE ADDITIONAL STEEL FRAMING AND SWAY BRACING AT O/H GRILLES, SLIDING DOORS AND SCREENS TO STABILIZE DOOR AND TRACK ASSEMBLY.
 - REFER TO MECHANICAL DOCUMENTS AND COORDINATE DOOR UNDERCUTS.
 - 25 MM IN NON-RATED DOORS
 - 20 MM IN HOLLOW METAL DOORS
 - DOORS, FRAMES AND SCREENS MUST BE FABRICATED, REINFORCED AND PREDRILLED FOR THE INSTALLATION OF SECURITY DEVICES.
 - CONTRACTOR IS RESPONSIBLE TO SITE MEASURE AND VERIFY DOOR OPENING SIZES PRIOR TO ANY FABRICATION.

ABBREVIATIONS

HM	HOLLOW METAL
PT	PAINT
TEMP	TEMPERED GLASS



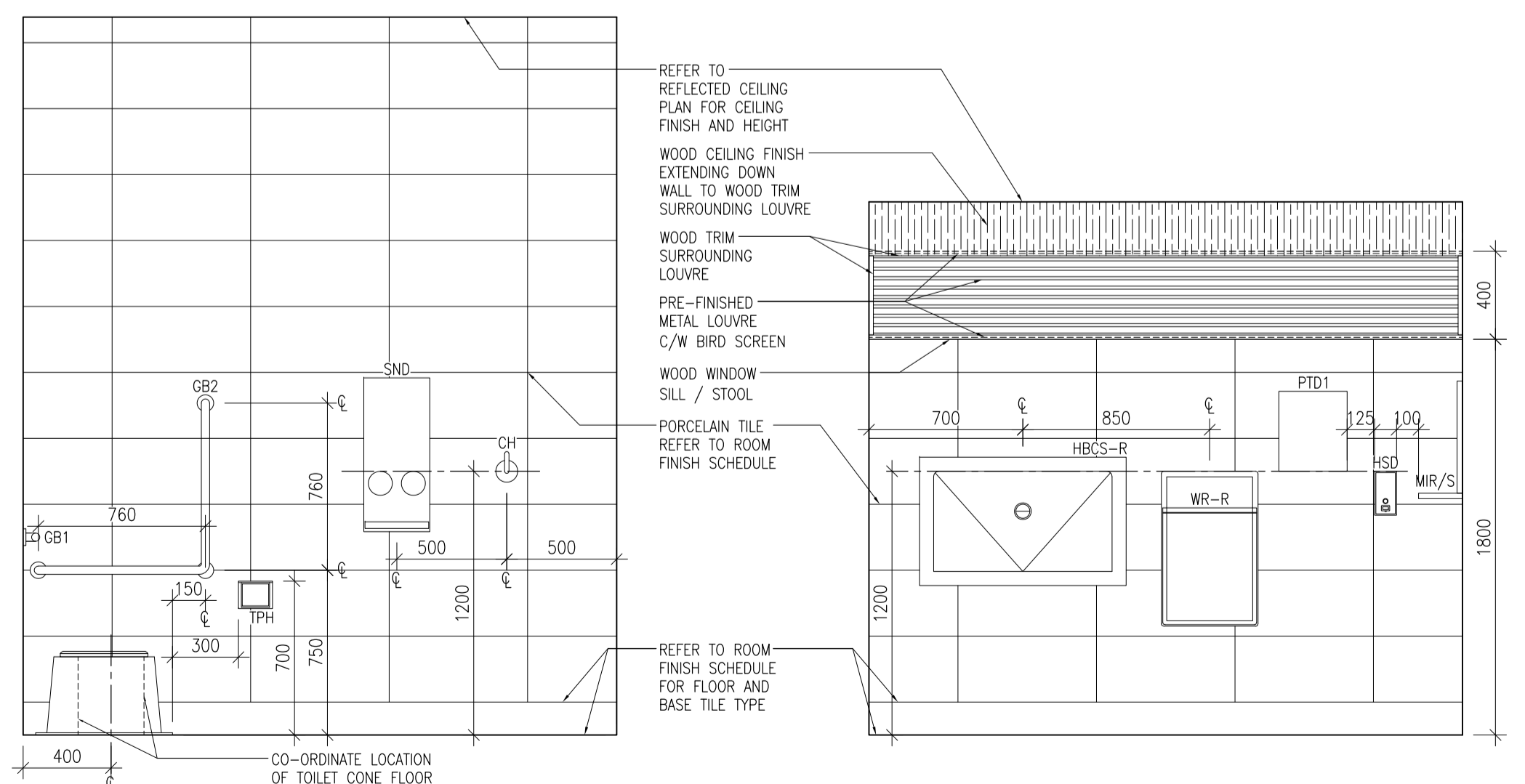
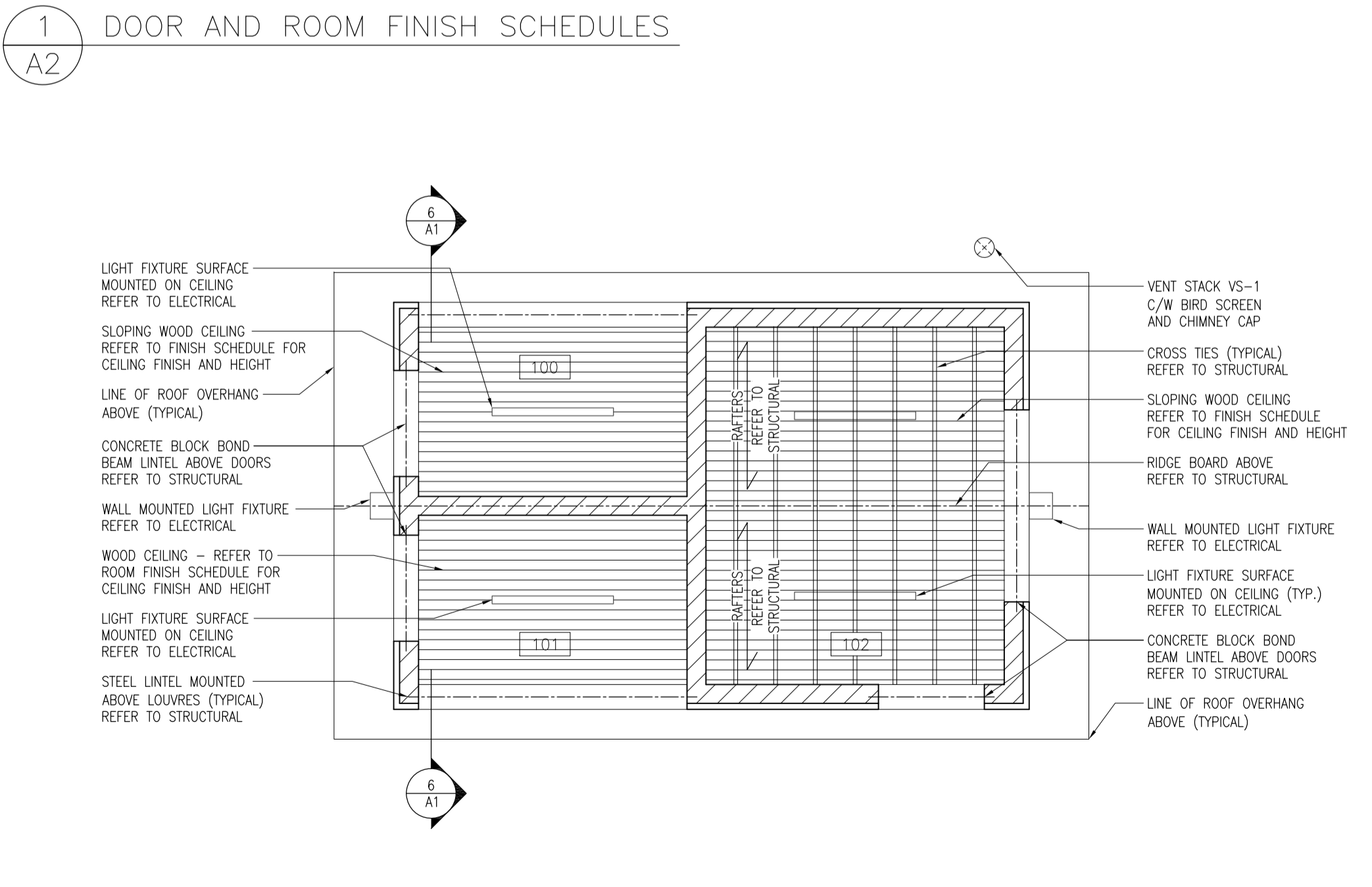
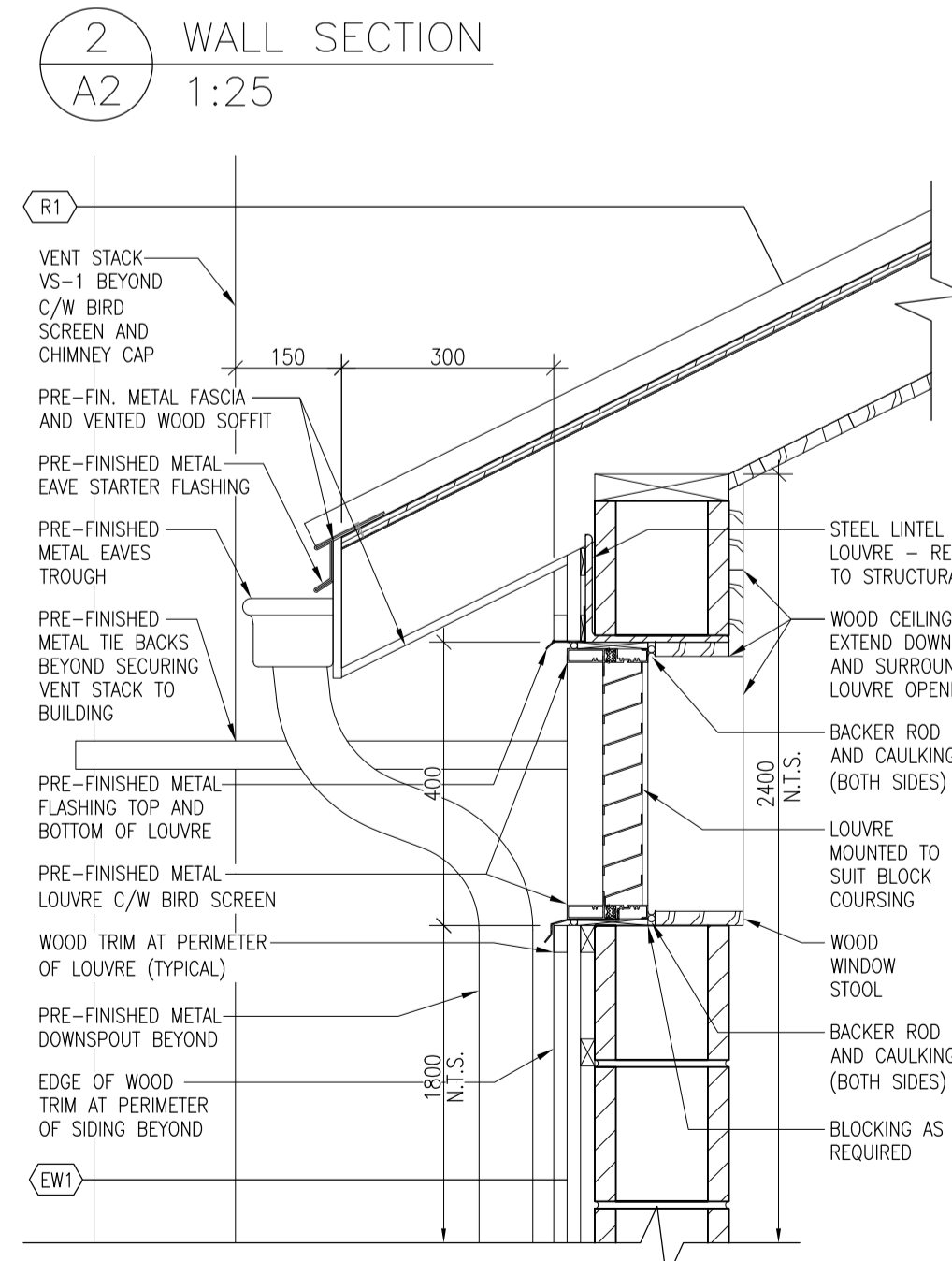
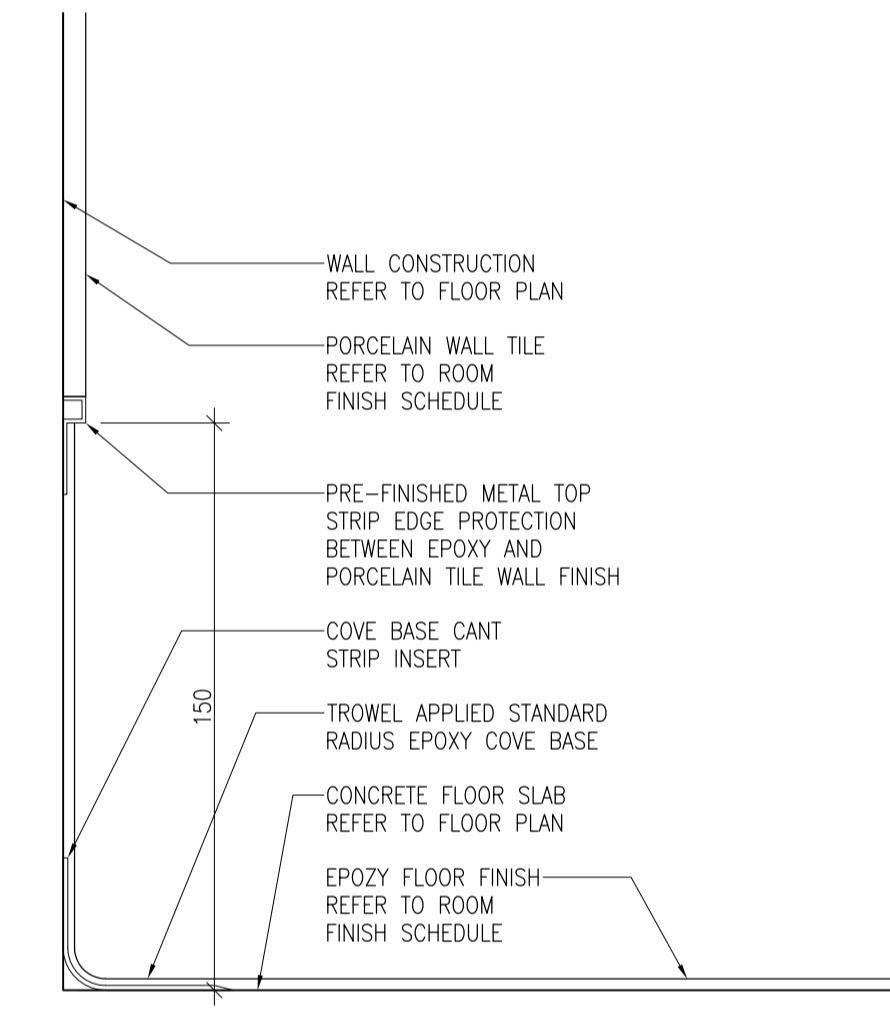
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE		WALL 1 (NORTH)		WALL 2 (EAST)		WALL 3 (SOUTH)		WALL 4 (WEST)		CEILING			REMARKS
			MATL. COLR.	MATL. COLR.	MATL.	FIN. COLR.	MATL.	FIN. COLR.	MATL.	FIN. COLR.	MATL.	FIN. COLR.	MATL.	FIN. COLR.	HT.	
100	BF WASHROOM	EP	EP	CB	CB	PT	CB	PT	CB	PT	CB	PT	TG	EXP	VARIES	150mm (6") EPOXY BASE
101	BF WASHROOM	EP	EP	CB	CB	PT	CB	PT	CB	PT	CB	PT	TG	EXP	VARIES	150mm (6") EPOXY BASE
102	STORAGE	EP	EP	CB	CB	PT	CB	PT	CB	PT	CB	PT	TG	EXP	VARIES	150mm (6") EPOXY BASE

- ROOM FINISH SCHEDULE NOTES:**
- PROVIDE GYPSUM BOARD BULKHEADS ON METAL FURRING WHERE SHOWN ON DRAWINGS AND AT ALL CHANGES IN CEILING HEIGHT.
 - FINISH FREE STANDING COLUMNS THE SAME AS THE REMAINDER OF ROOM.
 - PAINT ALL EXPOSED MISCELLANEOUS METALS AND SERVICES (E.G. DUCTS, CONDUITS, PIPING ETC.) WHERE CEILINGS AND WALLS ARE SCHEDULED TO BE PAINTED.
 - REFERENCES TO NORTH, SOUTH, EAST AND WEST REFER TO CONSTRUCTION NORTH.
 - IN SOME CASES MORE THAN ONE TYPE OR SIZE OF THE SAME MATERIAL IS USED. TYPES ARE DISTINGUISHABLE BY A NUMBER FOLLOWING THE MATERIAL, I.E. CER/T1. REFER TO THE SPECIFICATION FOR THE DEFINED TYPES.
 - MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR. REFER TO ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK REQUIRED. NOTE THAT MAKING GOOD INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF SERVICES SHOWN ON DRAWINGS.

ABBREVIATIONS

CB	CONCRETE BLOCK
PORC-T	PORCELAIN TILE
EP	EPOXY
PT	PAINT
TG	TONGUE AND GROOVE WOOD CEILING AND MOLDING TRIM
EXP	CLEAR NATURAL FINISH



3 DETAIL - LOUVRE OPENING
A2 1:10

4 REFLECTED CEILING PLAN
A2 1:50

5A INTERIOR ELEVATION - TYP W/R
A2 1:25

5B INTERIOR ELEVATION - TYP W/R
A2 1:25

DRAWING NO.	DRAWING NAME			
REFERENCE DRAWINGS				
5	03/23/18 ISSUED FOR TENDER K.R. B.M.			
4	01/25/18 100% SUBMISSION K.R. B.M.			
3	09/19/17 99% CLIENT REVIEW S.N. B.M.			
2	06/15/17 66% CLIENT REVIEW T.J. B.M.			
1	05/07/17 CLIENT REVIEW M.G. B.M.			
NO.	DATE	DESCRIPTION	Drawn by	Approved
			Dessine par	Approuve

REVISIONS

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters / Dimensions lineaires en millimetres



Canada

PARCS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet

PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
**WASHROOM
RCP, SCHEDULES
WR ELEVATIONS**

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
E.A. Date ---/---/2016

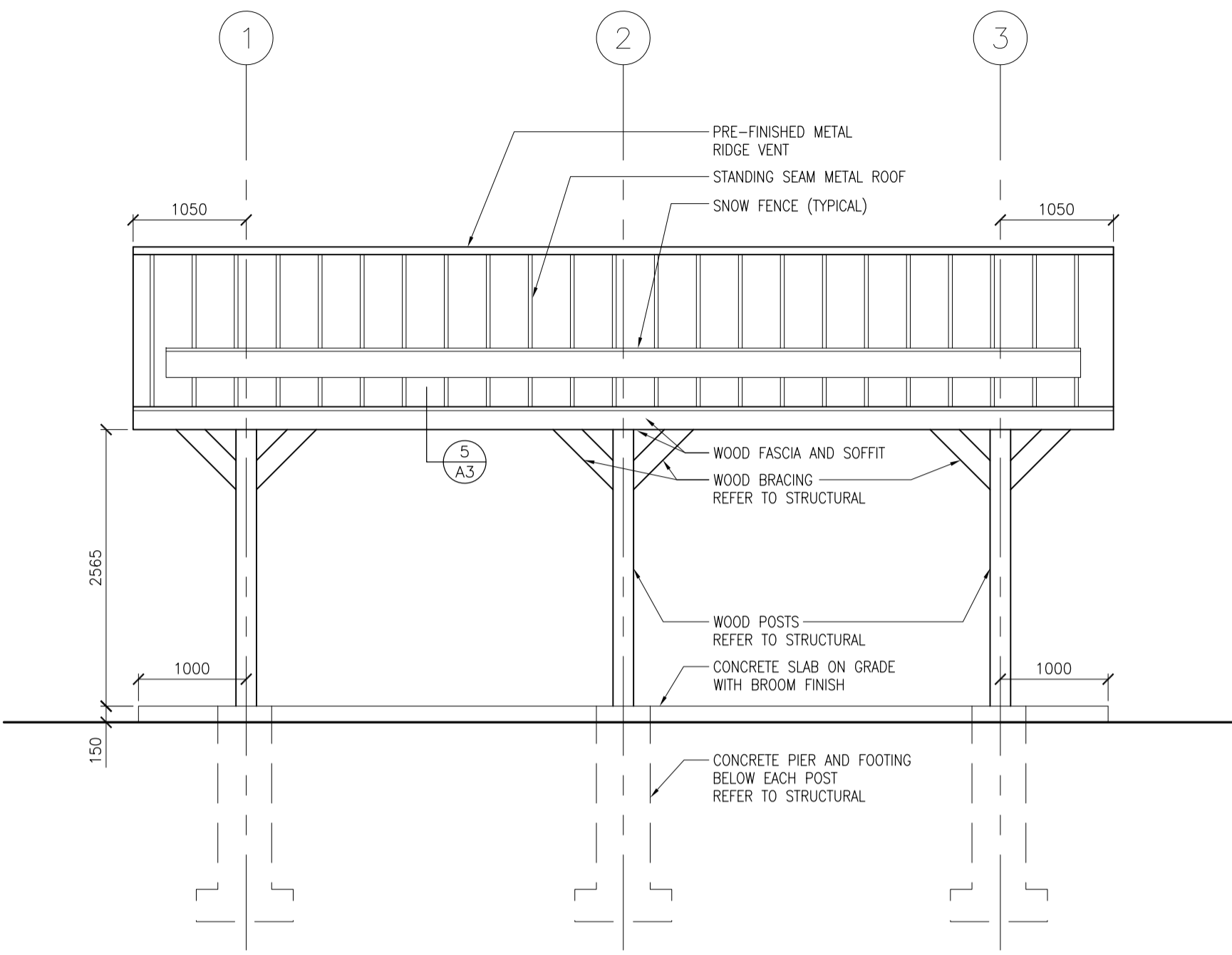
Field Recording by / Releve-Temoin par
Date ---/---/2016

Approved by / Approuve par
M.D. Date ---/---/2016

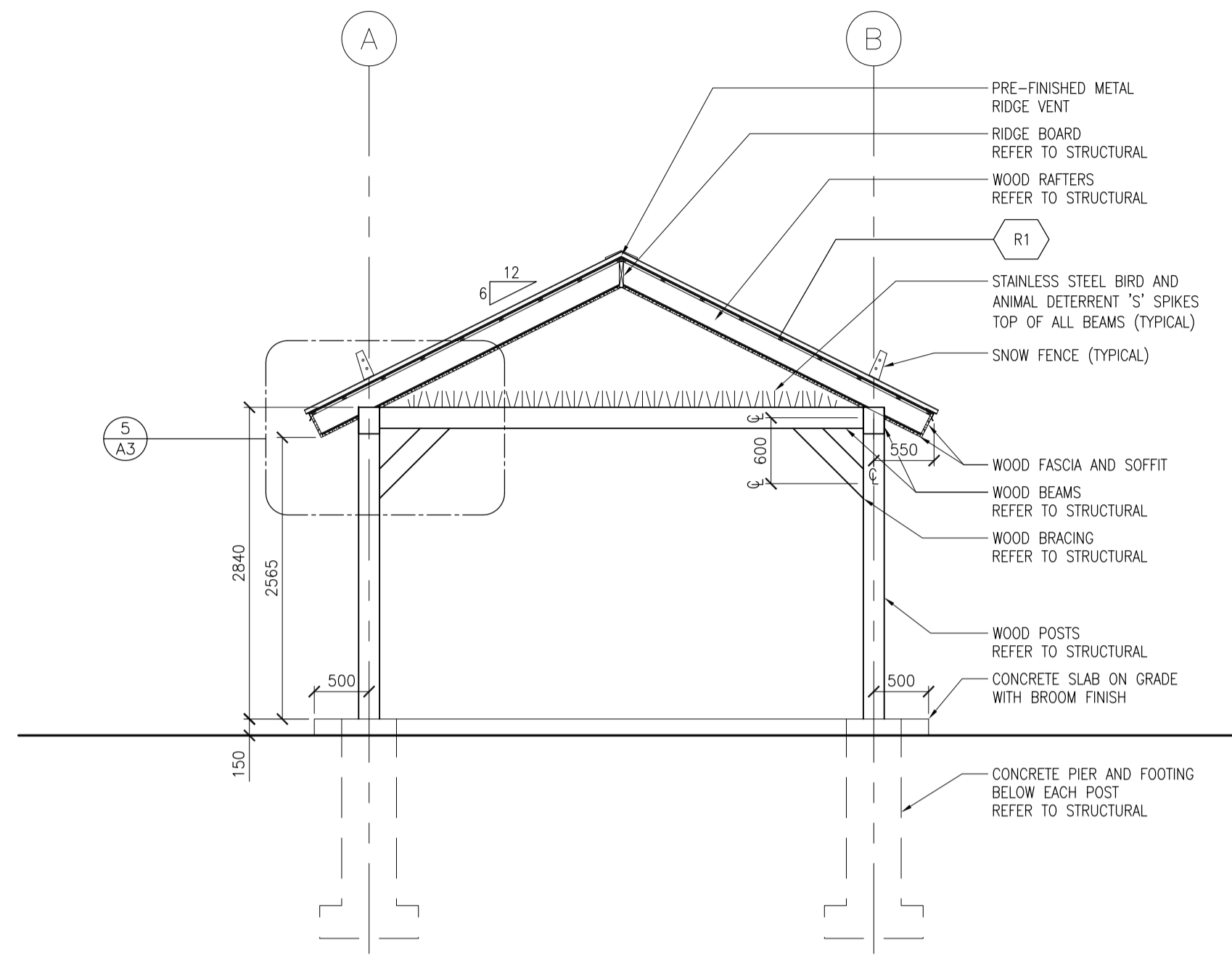
Checked by / Verifie par
M.D. Date ---/---/2016

Project No./ No. du projet 160622334 Asset No. - Sheet No./ Feuille No. A2

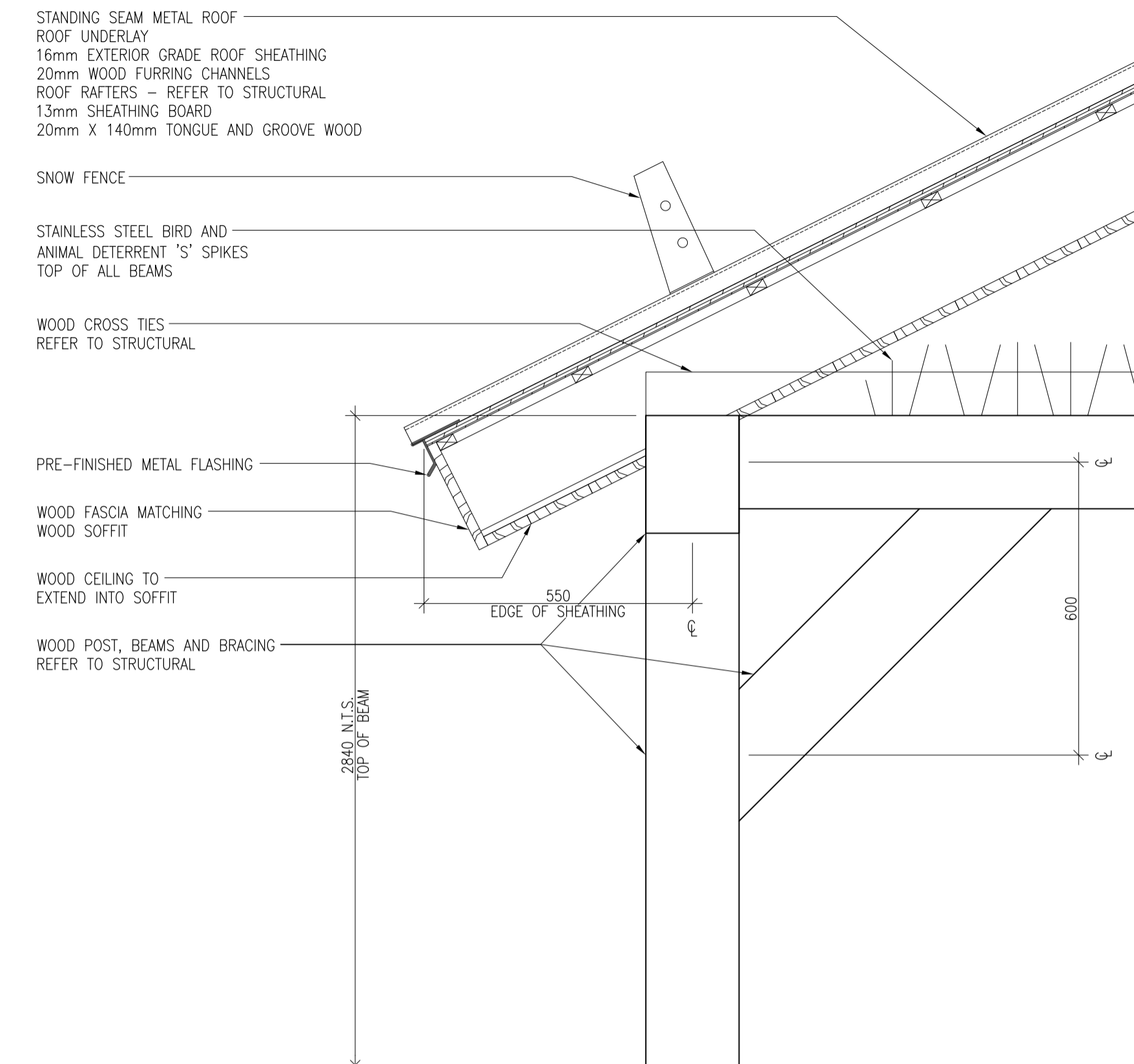
Drawing Re No./No. du Dessin



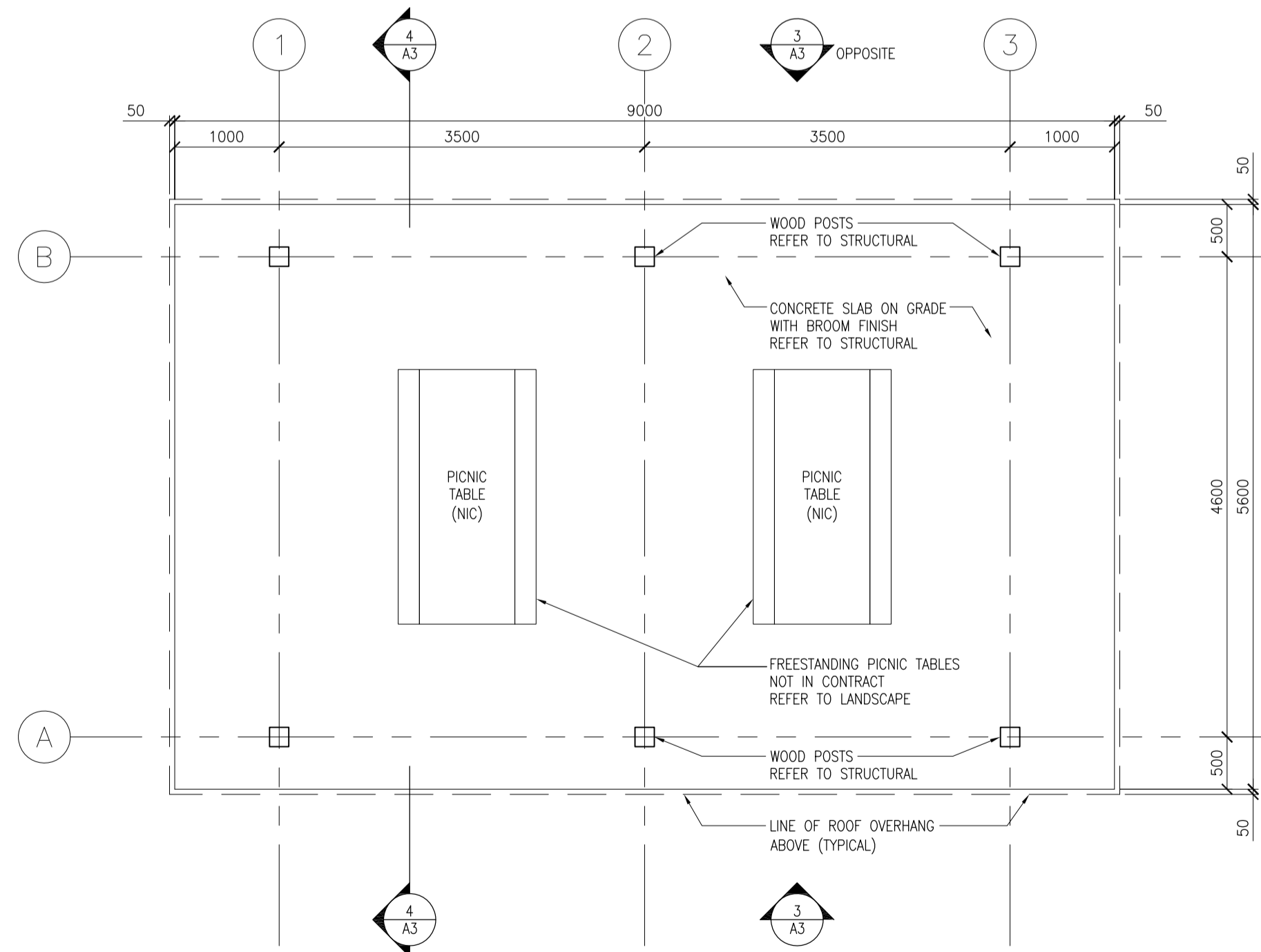
3 PICNIC SHELTER EAST ELEVATION
A3 (WEST ELEVATION SIMILAR)



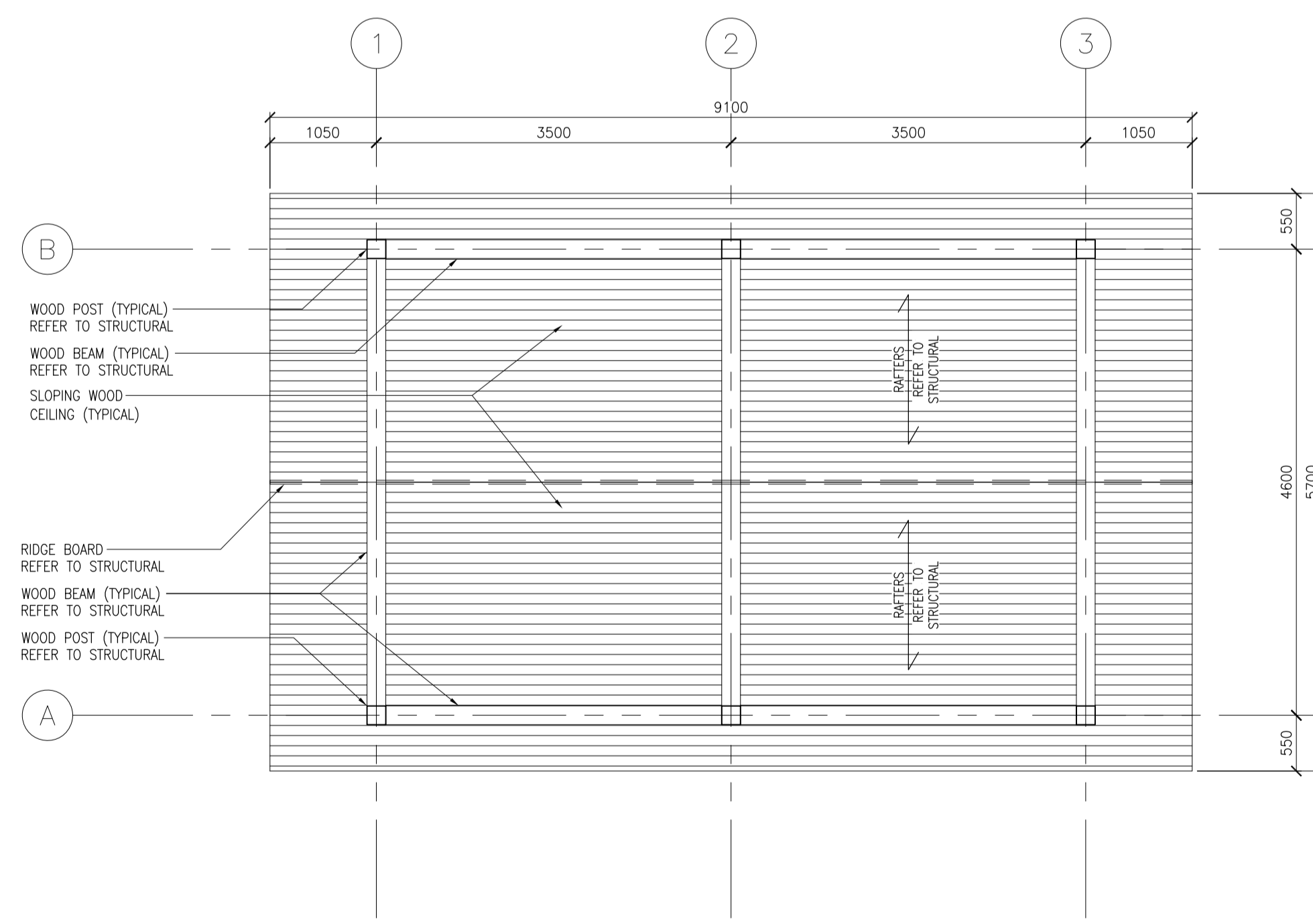
4 PICNIC SHELTER SECTION
A3



5 EAVE DETAIL
A3 SCALE 1:10



1 PICNIC SHELTER FLOOR PLAN
A3



2 PICNIC SHELTER REFLECTED CEILING PLAN
A3

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NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve

REVISIONS			
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Linear dimensions in millimeters / Dimensions lineaires en millimetres



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PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

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PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
PICNIC SHELTER
FLOOR PLAN,
ELEVATIONS & SECTION

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par
E.A. Date
--/--/2016

Field Recording by /
Releve-Temoin par
Date
--/--/2016

Approved by / Approuve par
M.D. Date
--/--/2016

Checked by/ Verifie par
M.D. Date
--/--/2016

Project No./ No. du projet
160622334

Asset No.
-

Sheet No./
Feuille No.
A3

Drawing Re No./No. du Dessin
-

E	
	DUPLEX 5-15R RECEPTACLE
	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
	TWO DUPLEX 5-15R RECEPTACLES
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
	PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)
	SURFACE RACEWAY (TYPE AS INDICATED)
	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
	GROUND BUS BAR
	DIRECT CONNECTION 120V-1P
	DIRECT CONNECTION 208V-2P
	DIRECT CONNECTION 208V-3P
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	THERMOSTAT
	CONDUIT STUB
	CONDUIT UP
	CONDUIT DOWN
	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP

E	
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	RECESSED LUMINAIRE
	STRIP LUMINAIRE
	WALL MOUNTED LINEAR LUMINAIRE
	RECESSED LUMINAIRE / POT LIGHT
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	POLE MOUNTED LUMINAIRE (SINGLE HEAD)
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	LINE VOLTAGE SWITCH (120V TO 347V)
	LOW VOLTAGE SWITCH (30V OR LESS)
	LOW VOLTAGE SWITCH c/w OCCUPANCY SENSOR
	LINE VOLTAGE SWITCH c/w OCCUPANCY SENSOR
	TIMER SWITCH
	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
	WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)

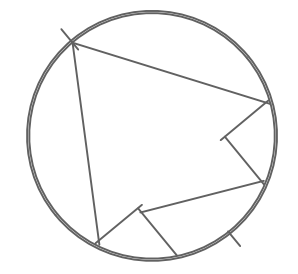
E	
	LUMINAIRE TYPE (SCHEDULE REFERENCE)
	SWITCH LEG
	PANEL AND CIRCUIT

D	
DRAWING NO.	DRAWING NAME
D-E000	ELECTRICAL DRAWING LIST, LEGENDS AND SCHEDULES
D-E001	SITEPLAN
D-E020	ELECTRICAL SCHEDULE
D-E200	LIGHTING AND POWER LAYOUT

E	
EX	EXISTING DEVICE TO REMAIN
RE	REMOVE EXISTING DEVICE
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HK	HOUSEKEEPING
HFF	HANDS FREE FIXTURE
OC	ON CENTER
JB	JUNCTION BOX
IG	ISOLATED GROUND
SPD	SURGE PROTECTIVE DEVICE
TYP	TYPICAL
TR	TAMPER RESISTANT
WP	WEATHERPROOF

E	
	NOTE REFERENCE
	EQUIPMENT REFERENCE
	REVISION NUMBER
	WIRING HOME RUN

- GENERAL NOTES:**
- THIS DRAWING IS A MASTER LEGEND DRAWING. SOME SYMBOLS MAY NOT APPEAR WITHIN THE DOCUMENTS NOR BE APPLICABLE TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN A FULL UNDERSTANDING OF THIS LEGEND.
 - ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL AND MECHANICAL DOCUMENTS AT ALL TIMES. IT SHALL BE THE ELECTRICAL'S RESPONSIBILITY TO OBTAIN ALL LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION.
 - BEFORE SUBMITTING ANY PRICE, THE CONTRACTOR SHALL VISIT THE SITE AS IDENTIFIED IN THE GENERAL CONTRACT CONDITIONS AND EXAMINE THE FOLLOWING:
 - CHECK THE EXISTING CONDITIONS AND IDENTIFY ANY LIMITATIONS.
 - CHECK THE EXISTING ELECTRICAL COMPONENTS THAT ARE TO BE REUSED (IF APPLICABLE).
 - EXAMINE THE PROPOSED WORK AGAINST THE EXISTING CONDITIONS. AFTER EXAMINING ALL OF THE ABOVE AGAINST THE PLANS, SPECIFICATION AND TERMS OF CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED WORK CAN BE CARRIED OUT, OR SHALL BE MODIFIED AT NO EXTRA COST TO THE OWNER IN ORDER TO ACHIEVE THE INTENT OF THE SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS.
 - IF THE CONTRACTOR BELIEVES LIMITATIONS AND/OR DISCREPANCIES EXIST, HE MUST THEN SUBMIT IN WRITING TO THE PRIME CONSULTANT IDENTIFYING THEM. CLARIFICATION WILL BE ISSUED.
 - DETAILS ON ELECTRICAL DRAWINGS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. DETAILS DO NOT SHOW ALL COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT THAT IS REQUIRED TO ASSIST THE CONTRACTOR WITH THE INSTALLATION.
 - WHEN THE POWER SHUT DOWNS ARE IMPLEMENTED, THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE OWNER'S REPRESENTATIVE IN ADVANCE FOR PERMISSION. WITHOUT PERMISSION THE WORK SHALL NOT PROCEED. REFER TO SPECIFICATIONS.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND SUB-TRADES AND SCHEDULE ALL WORK BEFORE ROUGHING IN DEVICES, CONDUIT, EQUIPMENT, ETC. TO AVOID ANY CONFLICT. IF THERE IS AN INTERFERENCE, THE CONTRACTOR SHALL PROVIDE A DETAILED/SCALED SKETCH DRAWING OF THE INTERFERENCE c/w A PROPOSED SOLUTION AND SUBMIT IT TO THE CONSULTANTS FOR REVIEW. REFER TO SPECIFICATIONS FOR INTERFERENCE DRAWING REQUIREMENTS.
 - THE ELECTRICAL CONTRACTOR SHALL MAKE GOOD AND MAINTAIN THE FIRE RATINGS OF ASSEMBLY. ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS OR INSTALLATION SHALL BE REPAIRED.
 - BACK TO BACK OUTLET INSTALLATION IS NOT ACCEPTABLE. OUTLETS MUST BE OFFSET FROM EACH OTHER A MINIMUM OF 150MM OR SPACE NECESSARY TO MAINTAIN NOISE CRITERIA, WHEN LOCATED ON A COMMON WALL AT OPPOSITE SIDES OF THE WALL.
 - ALL JUNCTION BOXES ARE TO BE IDENTIFIED PER THE SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL ENSURE ACCESS TO ALL JUNCTION BOXES ARE NOT IMPEDED.
 - INSTALL LUMINAIRES IN ELECTRICAL, MECHANICAL AND SERVICE ROOMS AFTER INSTALLATION OF ALL EQUIPMENT PIPING AND DUCTWORK SO TO PROVIDE THE BEST LEVEL OF LUMINATION WITHIN THE ROOM. LUMINAIRES SHALL BE SUPPORTED FROM BUILDING STRUCTURE ONLY.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE AUTOCAD DRAWINGS FOR REVIEW OF ALL ELECTRICAL AND DATA ROOMS PRIOR TO INSTALLATION OF ELECTRICAL SERVICES OR EQUIPMENT FOR REVIEW BY CONSULTANTS. REFER TO SPECIFICATIONS.
 - ELECTRICAL CONTRACTOR SHALL TAKE NOTE OF THE DRAWING SCALES AND GOVERN HIMSELF ACCORDINGLY.
 - WHEN WORKING IN AREAS THAT ARE CONFINED SPACES, FOLLOW ALL NECESSARY PROCEDURES RELATING TO WORKING IN CONFINED AREAS.
 - THE FOLLOWING SHALL BE USED AS MINIMUM GUIDE WITH RESPECT TO BRANCH CIRCUIT WIRE SIZING FOR VOLTAGE DROP:
 - #12AWG TO BE USED FROM 0 TO 24m MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - #10AWG TO BE USED FROM 24m TO 55m MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - #8AWG TO BE USED FROM 55m TO 85m MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.



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1	05/07/17	CLIENT REVIEW	K.S Z.G

REVISIONS				
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve
REVISIONS				
	A	Detail number	A	Número de detail
	B	Sheet number	B	Sur feuille numero

Linear dimensions in millimeters Dimensions lineaires en millimetres



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ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record /
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PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin

ELECTRICAL DRAWING
LIST.LEGEND.SCHEDULES

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par Date
K.S 06/15/2016

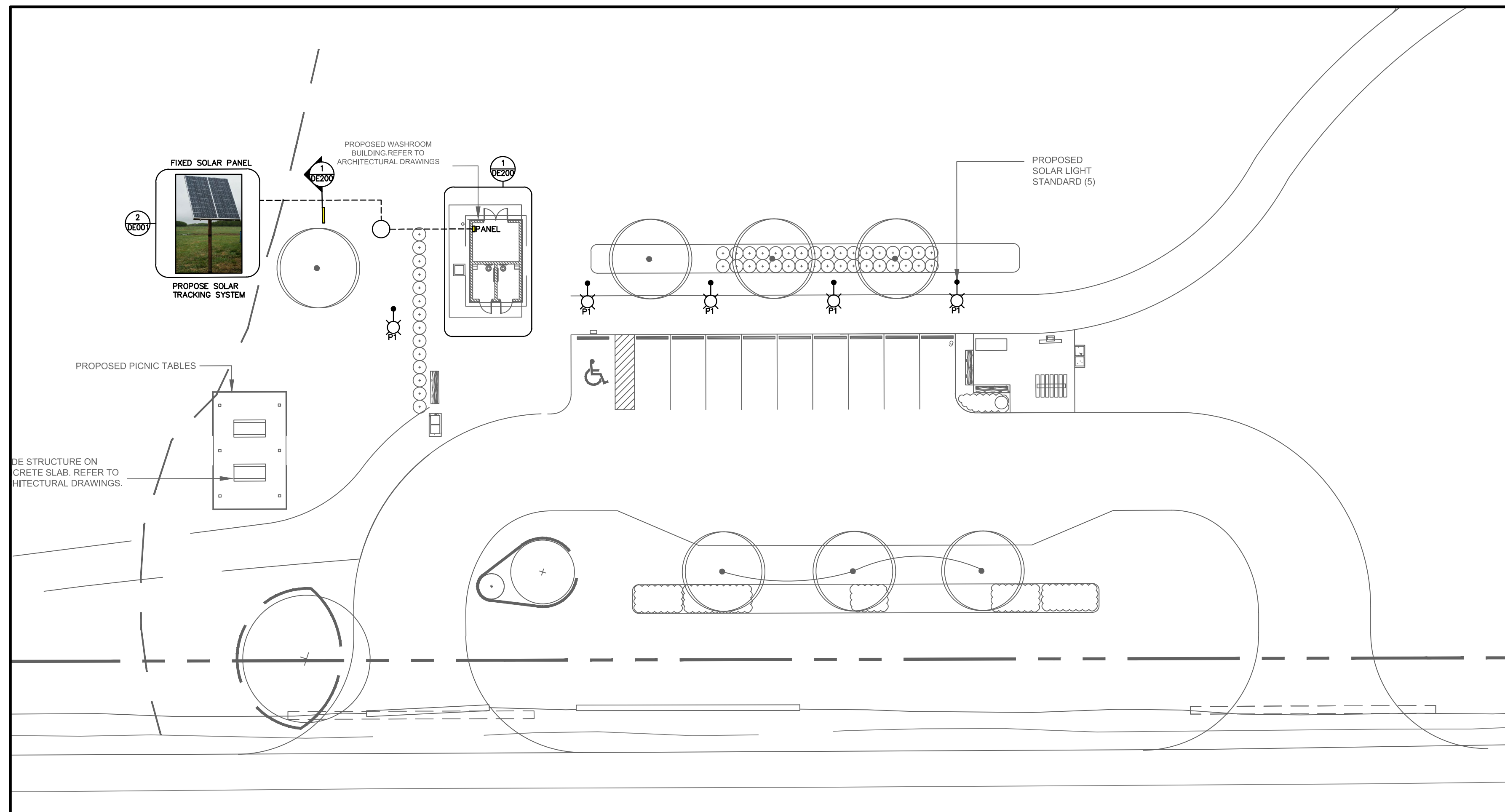
Field Recording by /
Releve-Temoin par Date
-- 06/15/2016

Approved by / Approuve par Date
M.P 06/15/2016

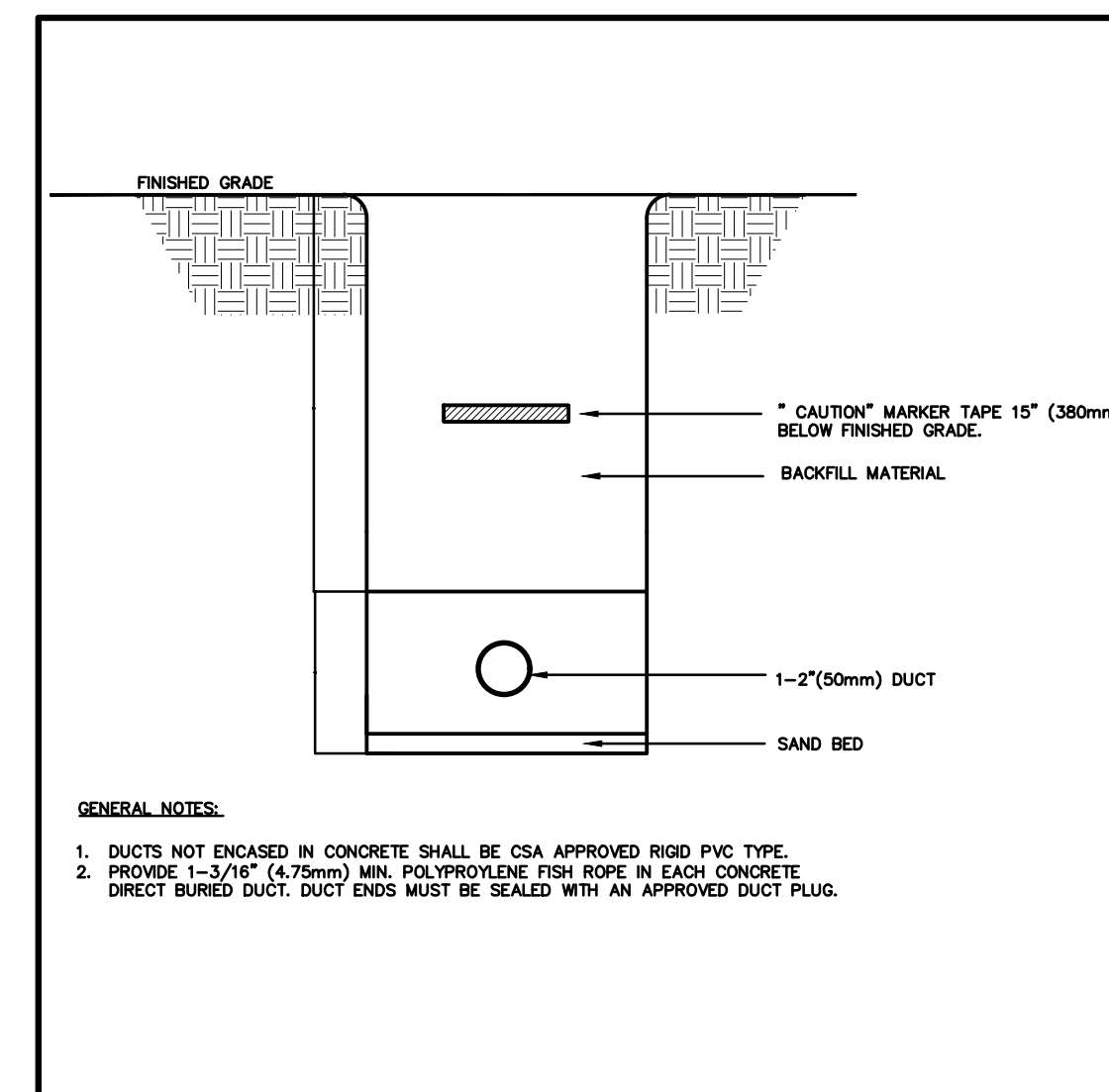
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M.P 06/15/2016

Project No./ No. du projet Asset No. Sheet No./
160622334 -- Feuille No.

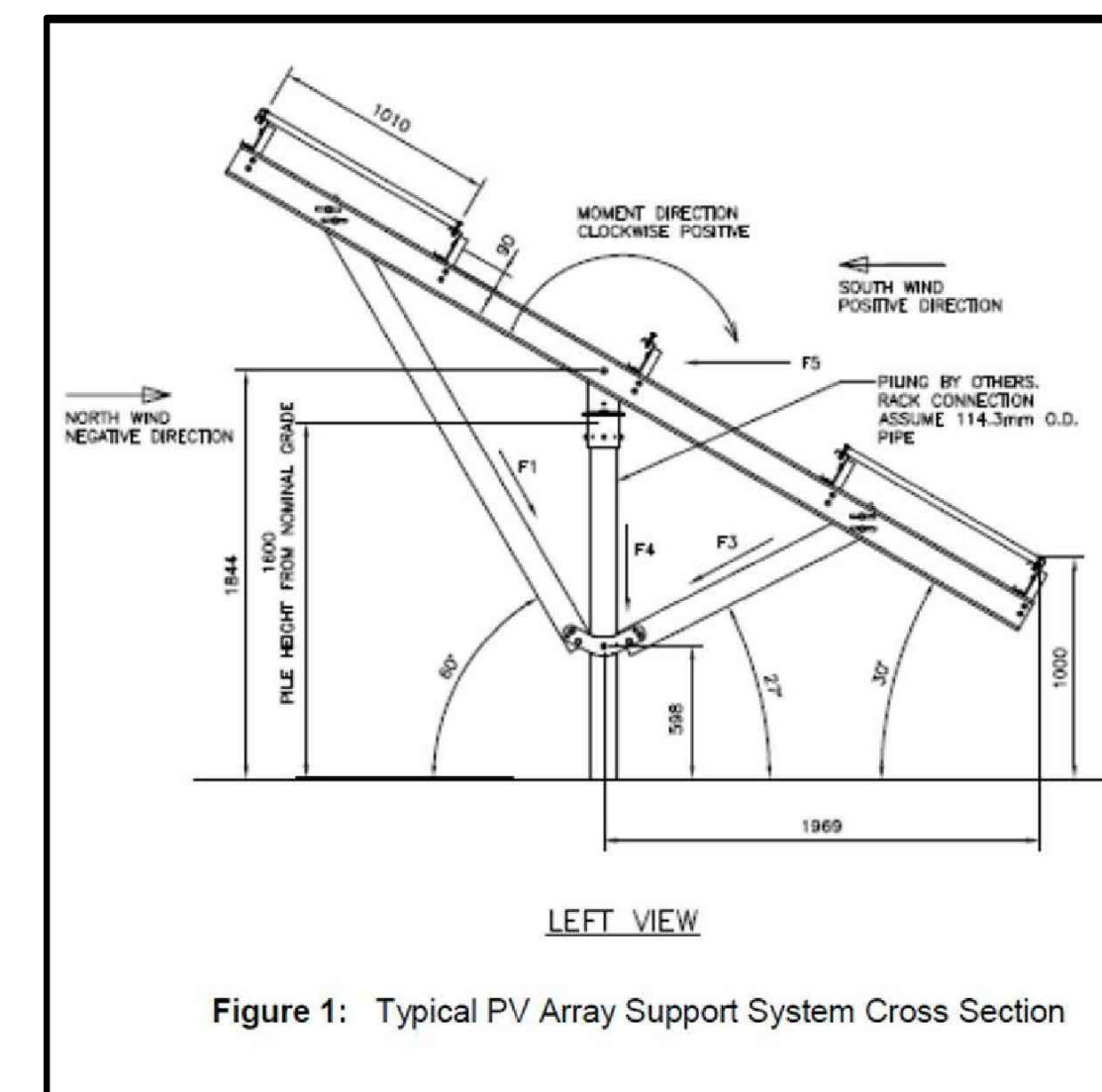
Drawing Re No./No. du Dessin **D-E000**



1 SITE PLAN
E001 N.T.S.



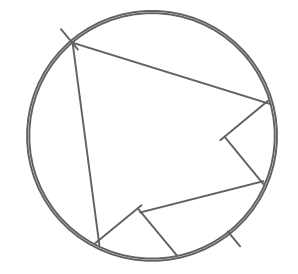
3 DIRECT BURIED
DE001 N.T.S.



2 TYPICAL PV FIXED SOLAR PANEL
DE001 N.T.S.

GENERAL NOTES:

1. ALL UNDERGROUND SERVICES ARE TO BE COORDINATED WITH CIVIL AND LANDSCAPE CONTRACTOR.
2. COMPLETE ALL CIVIL WORK INCLUDING PROVISION OF DUCTBANK, MANHOLES, EXCAVATION AND BACK FILLING FOR UNDERGROUND SERVICES.
3. UNLESS OTHERWISE NOTED, ALL OUTDOOR AND UNDERGROUND CONDUITS TO BE RIGID PVC.
4. PROVIDE GROUNDING AND BONDING OF EQUIPMENT AS REQUIRED BY CANADIAN ELECTRICAL SAFETY CODE AND CSA C22.2 NO4-M1987 COMBINE WITH IEC 601024-1, IEC 142 AND IEC 364 SERIES.
5. ANTIOXIDANT COMPOUND (NO-OX-ID) SHALL BE APPLIED TO ALL CONNECTIONS WHERE DISSIMILAR METALS COME IN CONTACT AND TO ALL CONDUCTOR ENDS BEING LUGGED.
6. GROUNDING SYSTEM COMPONENTS SHALL BE CERTIFIED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUNDING ROD, GROUNDING LUGS, GROUNDING CLAMPS ETC.
7. THE CONNECTIONS TO A MODULE OR PANEL SHALL BE ARRANGED SUCH THAT REMOVAL OF A MODULE OR PANEL FROM A PV SOURCE CIRCUIT DOES NOT INTERRUPT A BONDING CONDUCTOR TO OTHER PV SOURCE EQUIPMENT.
8. SAFETY SIGNS AND LABELS SHALL BE PERMANENTLY ATTACHED BY ADHESIVE OR OTHER MECHANICAL MEANS, LABEL SHALL COMPLY WITH CODE.
9. PHOTOVOLTAIC MODULE SHALL BE MARKED TO IDENTIFY LEAD POLARITY, DEVICE RATINGS AND SPECIFICATION FOR VOLTAGES, CURRENT AND POWER.



DRAWING NO. DRAWING NAME

REFERENCE DRAWINGS

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PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

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SITE PLAN

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par Date
K.S 06/15/2016

Field Recording by /
Releve-Temoin par Date
-- 06/15/2016

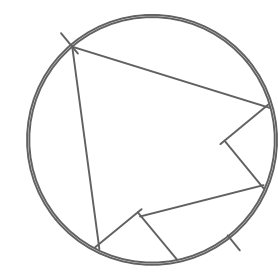
Approved by / Approuve par Date
M.P 06/15/2016

Checked by / Verifie par Date
M.P 06/15/2016

Project No./ No. du projet Asset No. Sheet No./
160622334 -- Feuille No.

Drawing Re No./No. du Dessin D-E001

NAME OF JOB: NORTHERN WELCOME AREA										PANEL RP-1									
PANEL TYPE: SURFACE MOUNTED, WATERPROOF										VOLTAGE 240-120V, 100A MAINS									
PANEL LOCATION: STORAGE ROOM										14,000 AIC, GROUND BAR, SURFACE MOUNT									
	DESCRIPTION	BRKR AMP	P	GFI	WATTS (W)		GFI	P	BRKR AMP	DESCRIPTION									
					A	B													
1	INTERIOR LIGHTING FIXTURES (L1)	15	2		168			2	15	SPARE	2								
3	STORAGE POWER RECEPTACLE	15	1			300	52	1	15	EXTERIOR LIGHTING (LL1)	4								
5	SPARE	15	1					1	15	SPARE	6								
7	SPARE	15	2					1	15	SPARE	8								
9	SPARE	15	1					1	15	SPARE	10								
11	SPARE	15	1					1	15	SPARE	12								
13	SPARE	15	1					1	15	SPARE	14								
15	SPARE	15	1					1	15	SPARE	16								
17	SPARE	15	1					1	15	SPARE	18								
19	SPARE	15	1					1	15	SPARE	20								
21	SPARE	15	1					1	15	SPARE	22								
23	SPARE	15	1					1	15	SPARE	24								
TOTALS					168.00	352.00													
TOTAL LOADS					520.00	WATTS													



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ELECTRICAL SCHEDULE

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
K.S
Date
06/15/2016

Field Recording by /
Releve-Temoin par
Date
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Approved by / Approuve par
M.P
Date
06/15/2016

Checked by / Verifie par
M.P
Date
06/15/2016

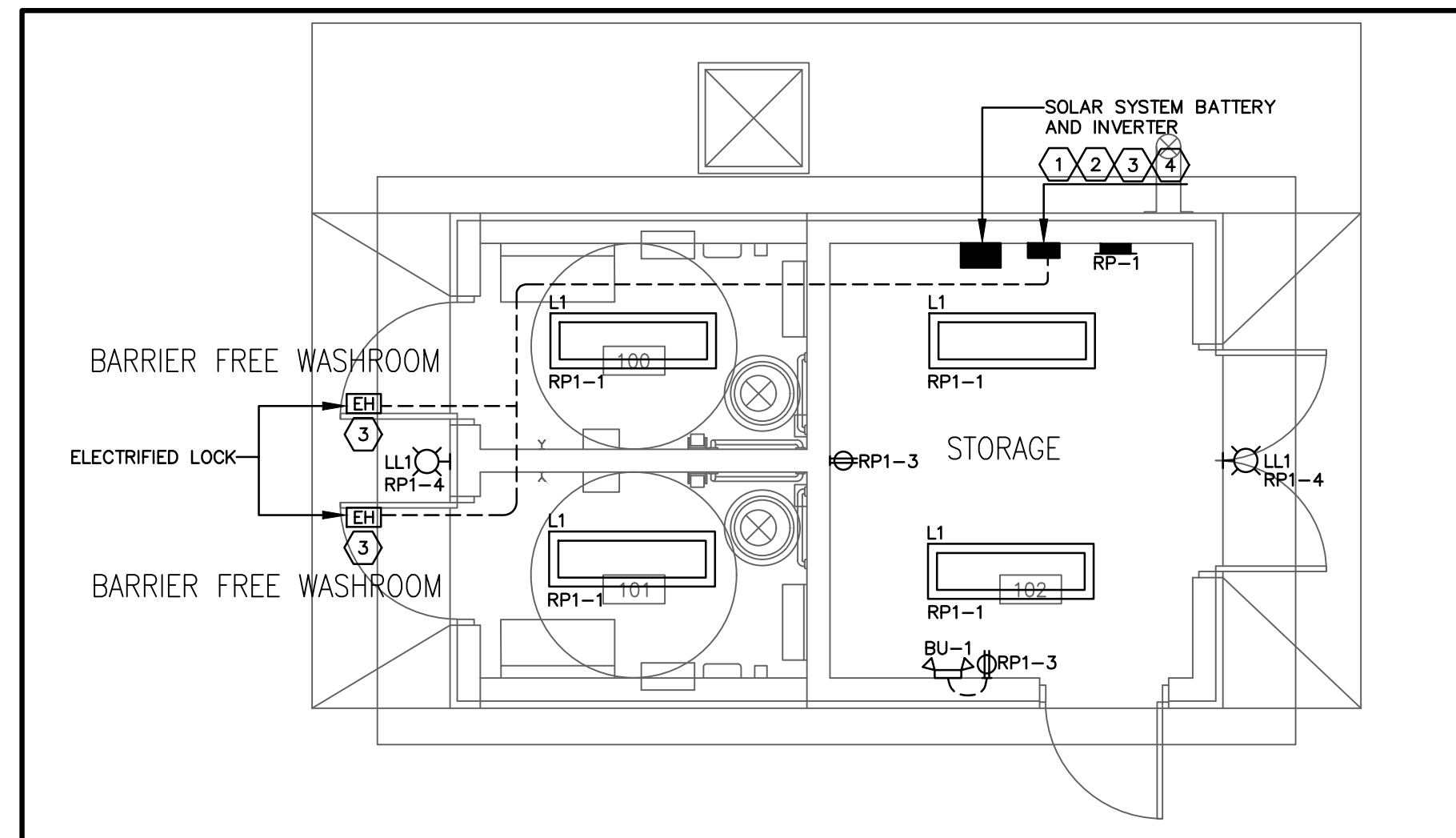
Project No./ No. du projet
160622334
Asset No.
-
Sheet No./
Feuille No.

Drawing Re No./No. du Dessin
-
D-E020

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MOUNTING	LAMP		VOLTAGE (V)	CONNECTED LOAD		APROVED MANUFACTURER CATALOGUE NUMBER	LOCATION
			TYPE	QTY - DESCRIPTION		UNIT (W)	TOTAL (W)		
LL1	WALL MOUNTED SCONCE FIXTURE C/W HIGH-IMPACT RESISTANT HOUSING, TYPE 3 DISTRIBUTION, DARK-SKY FRIENDLY AND FINISH TO SUIT ARCHITECT. MOUNT FIXTURE AT HEIGHT AS INDICATED ON ARCHITECTURAL ELEVATIONS	WALL MOUNT	LED 1741	LUMENS 4000K 26W	120	26.00	26.00	KENDALL CAT. #FN9L37X26L40K120	OUTDOOR
L1	4' (1220mm) VANDAL RESISTANT WRAPAROUND LED FIXTURE C/W OPAL POLYCARBONATE LENS, EXTRUDED ALUMINUM HOUSING WITH TAMPER RESISTANT HARDWARE.	SURFACE	LED 3560	LUMENS 4000K 42W	120	42.00	42.00	FAILSAFE CAT. #HVL84LD14H40UNVOEDC1SVRS	INDOOR
P1	SOLAR LIGHT STANDARD, PROVIDED BY LANDSCAPE CONTRACTOR.								
R1,R2 (EMERG LIGHTS; VANDAL RESIST.)	LED FIXTURE C/W COMPACT VANDAL RESISTANT DESIGN WITH VARIABLE LIGHT PATTERN WHITE COLOR AND 360 ROTATION AND LEXAN COVER.	SURFACE	LED	4WMR16	12	4.00	4.00	BEGHELLI CAT. #VR14WLED & VR24WLED LUMACELL CAT. #RSQBMLD7 & RSQB2MLD7 STANPRO CAT. #SMC112/4WLMR16 & SMC212/4WLMR16 AMLITE CAT. #RMQV1124LRUM16(WHT & RMOV2124LRUMRWH1 (1 CUBE 2 LAMPS) READY-LITE CAT. #VM1-LD7 & VM2-LD7	INDOOR
BU-1	LONG LIFE, SEALED BATTERY, C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS.	SURFACE	N/A	N/A	120-120VDC	TBD	TBD	BEGHELLI NV12 SERIES: EM-3 #NV12-36/2SR EM-4 #NV12-100/2SR EM-5 #NV12-200/2SR EM-6 #NV12-360/2SR EMERGITELITE CAT. #12LSE SERIES LUMACELL CAT. #RGS SERIES STANPRO CAT. #SLA-12 SERIES AMLITE CAT. #EBST12 SERIES READY-LITE CAT. #LD12X SERIES	INDOOR

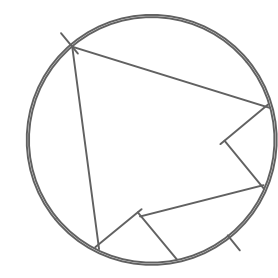
GENERAL NOTES

- ALL LUMINAIRES SHALL MEET THE GENERAL REQUIREMENTS OF THE SPECIFICATIONS AND THE LUMINAIRE SCHEDULE. ANY CONTRADICTION SHOULD BE COMMUNICATED TO THE CONSULTANT.
- ALL LUMINAIRES SHALL BE CERTIFIED BY CSA OR CUL.
- CERTAIN CATALOGUE OPTIONS ARE UNKNOWN AT THIS TIME AND HAVE BEEN MARKED WITH AN ASTERISK (*)
- DUE TO CONSTANT CHANGES IN CATALOGUE NUMBERS, ALL NUMBERS INDICATED MUST BE VERIFIED WITH THE LUMINAIRE DETAILS AND CONFIRMED WITH THE MANUFACTURER PRIOR TO ORDERING.
- LED TESTED BY IESNA LM-79-08 AND UNDER LM-80 & TM21-11
- MATERIAL FINISHES SHALL BE CONFIRMED BY ARCHITECTS.
- ALL LUMINAIRES SHALL BE MINIMUM CRI OF 85 WITH 4000K COLOUR TEMPERATURE, OTHERWISE INDICATED.
- BEFORE ORDERED, VERIFY THAT THE LUMINAIRE MATCHES THE CEILING TYPE INDICATED IN RCP/CAD DRAWINGS. ANY CONTRADICTION SHOULD BE COMMUNICATED TO CONSULTANT.
- SHOP DRAWING FOR THE LUMINAIRE WILL INCLUDE INFORMATION ABOUT THE LAMP SOURCE IN USE.
- ALTERNATE LUMINAIRES SHALL MEET SIMILAR OR WILL EXCEED INDICATED LUMEN OUTPUT AND CONDITIONS INCLUDED BY SPECIFICATION.
- LED LUMEN VALUES QUOTES FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- MANUFACTURERS WANTING TO BID AS EQUALS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.



- DRAWING NOTES:**
1. PROVIDE PS904 ALLEGIOY POWER SUPPLY FOR ELECTRICAL LOCK.
 2. CIRCUIT FOR THE PS904 POWER SUPPLY TO BE CONTROLLED BY THE TIMER (SHOWN ON LIGHTING LAYOUT).
 3. PROVIDE ELECTRIFIED LOCK L909X SERIES, ALLEGIOY.
 4. WIRING FROM PS904 TO ELECTRIFIED LOCK BY DOOR HARDWARE CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 21MM CONDUIT.
 5. ALL LUMINAIRES TO BE SURFACE MOUNTED TO THE UNDERSIDE OF THE CEILING.

1 WASHROOM POWER AND LIGHTING LAYOUT
D-E200 1:50



DRAWING NO.	DRAWING NAME			
REFERENCE DRAWINGS				
5	03/26/18 ISSUED FOR TENDER K.S M.P			
4	01/25/18 100% SUBMISSION K.S M.P			
3	09/19/17 99% CLIENT REVIEW K.S Z.G			
2	06/21/17 66% CLIENT REVIEW K.S Z.G			
1	05/07/17 CLIENT REVIEW K.S Z.G			
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve

REVISIONS			
A	A Detail number	A Numero de detail	
B	B Sheet number	B Sur feuille numero	

Linear dimensions in millimeters / Dimensions lineaires en millimetres



Canada

PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record / Type d'enregistrement

Project title / Titre du projet
PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
LIGHTING AND POWER LAYOUT

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
K.S 06/15/2016

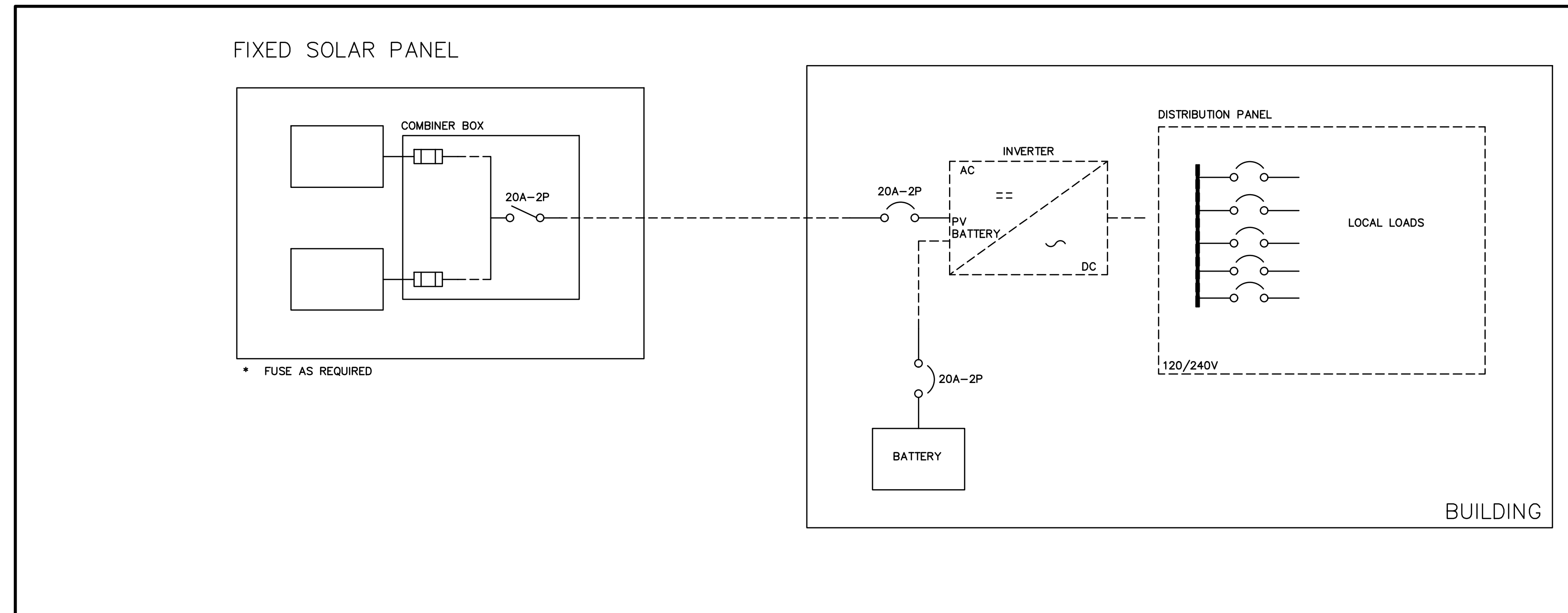
Field Recording by / Releve-Temoin par
-- 06/15/2016

Approved by / Approuve par
M.P 06/15/2016

Checked by / Verifie par
M.P 06/15/2016

Project No./ No. du projet 160622334	Asset No. -	Sheet No./ Feuille No. D-E200
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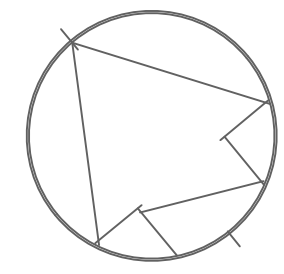
Drawing Re No./No. du Dessin
-



GENERAL NOTES:

BATTERY:
MAX DAYS OF AUTONOMY = 2 DAYS
INVERTER:
AC OUTPUT = 120/240V
CAPABLE FOR IMPLEMENTATION OF PV +
BATTERY SYSTEM

1 SINGLE LINE DIAGRAM
D-E201 N.T.S



DRAWING NO.	DRAWING NAME			
REFERENCE DRAWINGS				
5	03/26/18 ISSUED FOR TENDER K.S M.P			
4	01/25/18 100% SUBMISSION K.S M.P			
3	09/19/17 99% CLIENT REVIEW K.S Z.G			
2	06/21/17 66% CLIENT REVIEW K.S Z.G			
1	05/07/17 CLIENT REVIEW K.S Z.G			
NO.	DATE	DESCRIPTION	Drawn by Dessine par	Approved Approuve

REVISIONS			
A	A Detail number	A Numero de detail	
B	B Sheet number	B Sur feuille numero	

Linear dimensions in millimeters / Dimensions lineaires en millimetres



Canada

PARKS CANADA
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Type of Record / Type d'enregistrement

Project title / Titre du projet
PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin
SINGLE LINE DIAGRAM

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
K.S 06/15/2016

Field Recording by / Releve-Temoin par
__ 06/15/2016

Approved by / Approuve par
M.P 06/15/2016

Checked by / Verifie par
M.P 06/15/2016

Project No./ No. du projet 160622334	Asset No. -	Sheet No./ Feuille No. D-E201
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Drawing Re No./No. du Dessin
-

GENERAL NOTES / TYPICAL DETAILS I

GENERAL

1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
2. DESIGN IS BASED ON THE ONTARIO BUILDING CODE 2012.
3. READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
4. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVEING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
5. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
6. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
7. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
8. NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.
9. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB AND SHALL INFORM THE CONSULTANT OF ANY VARIATION FROM THE DIMENSION AND CONDITIONS SHOWN ON THE DRAWINGS.
10. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
11. CHECK DIMENSIONS ON THESE DRAWINGS AGAINST DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE USING THEM FOR FABRICATION OR CONSTRUCTION. REPORT DISCREPANCIES. ARCHITECTURAL DIMENSIONS GOVERN.

DESIGN LOADS (WASHROOM)

VERTICAL FORCE DATA ROOF

DL=1 kPa
SNOW=1.44 kPa
LL=1 kPa

LATERAL FORCE DATA

a) **SEISMIC**

2012 OBC CODE EARTHQUAKE DATA

$$V_{base} = \frac{S(T_o)M_v W}{R_d R_o}$$

WHERE

(T_o) = FUNDAMENTAL LATERAL PERIOD OF VIBRATION (0.1s)
S(T_o) = DESIGN SPECTRAL RESPONSE ACCELERATION FOR PERIOD OF STRUCTURE (0.18)
M_v = FACTOR TO ACCOUNT FOR HIGHER MODE EFFECT ON BASE SHEAR (1.0)
I_e = EARTHQUAKE IMPORTANCE FACTOR (1.0)
W = WEIGHT OF STRUCTURE
R_d = DUCTILITY-RELATED FORCE MODIFICATION (1.5)
(CONVENTIONAL CONSTRUCTION OF MASONRY WALL)
R_o = OVERSTRENGTH-RELATED FORCE MODIFICATION (1.5)

• SITE CLASS FOR FOUNDATIONS 'C'

F_a = 1.0
F_v = 1.0

• DESIGN SPECTRAL ACCELERATION VALUES:

S_a(0.2) = 0.18
S_a(0.5) = 0.11
S_a(1.0) = 0.067
S_a(2.0) = 0.022

SEISMIC WEIGHT

WEIGHT OF ROOF = 36kN
25% SNOW ON ROOF = 14kN
TOTAL SEISMIC WEIGHT (W) = 50kN

$$V_{base} = 4kN (N-S/E-W)$$

b) **WIND**

p = qCeCgCp

WHERE

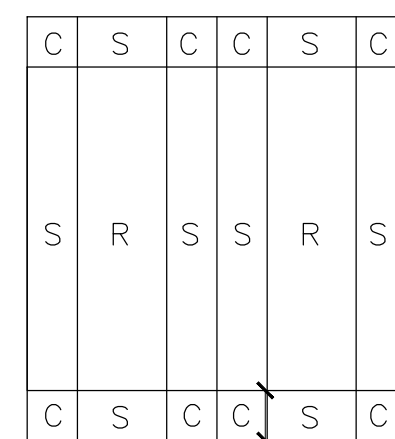
NORTH-SOUTH

q₅₀ = 0.44 kPa Ce = 0.9 CpCg(WINDWARD) = 1.37 CpCg(LLEEWARD) = 1.0
q(WINDWARD) = 0.54 kPa q(LLEEWARD) = 0.4 kPa V = 23 kN (N-S)

EAST-WEST

CpCg(WINDWARD) = 1.15 CpCg(LLEEWARD) = 0.9
q(WINDWARD) = 0.46 kPa q(LLEEWARD) = 0.32 kPa V = 12 kN (E-W)

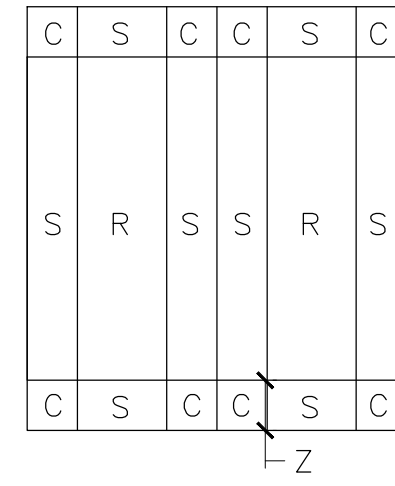
WIND UPLIFT FORCES (WASHROOM)



ROOF AREA	WIND LOAD
END ZONE WIDTH	1 m
CORNER (C)	-5.0 kPa
EDGE (S)	-3.1 kPa
FIELD (R)	-2.5 kPa

WIND UPLIFT FORCES (PICNIC SHELTER)

INTERNAL UPLIFT PRESSURE FOR WOOD TO WOOD CONNECTION DESIGN MUST ALSO BE INCLUDED. PICNIC SHELTER IS OPEN ON ALL SIDES. INTERNAL PRESSURE SHALL BE +/- 0.6kPa (CATEGORY 3).



ROOF AREA	WIND LOAD
END ZONE WIDTH	1 m
CORNER (C)	-7.0 kPa
EDGE (S)	-4.2 kPa
FIELD (R)	-1.6 kPa

DESIGN LOADS (PICNIC SHELTER)

VERTICAL FORCE DATA ROOF

DL=1 kPa
SNOW=1.44 kPa
LL=1 kPa

LATERAL FORCE DATA

a) **SEISMIC**

2012 OBC CODE EARTHQUAKE DATA

$$V_{base} = \frac{S(T_o)M_v W}{R_d R_o}$$

WHERE

(T_o) = FUNDAMENTAL LATERAL PERIOD OF VIBRATION (0.1s)
S(T_o) = DESIGN SPECTRAL RESPONSE ACCELERATION FOR PERIOD OF STRUCTURE (0.18)
M_v = FACTOR TO ACCOUNT FOR HIGHER MODE EFFECT ON BASE SHEAR (1.0)
I_e = EARTHQUAKE IMPORTANCE FACTOR (1.0)
W = DEAD LOAD STRUCTURE
R_d = DUCTILITY-RELATED FORCE MODIFICATION (1.0)
(WOOD/GYPSUM BASED SFERS. NOT LISTED ON OBC2012 TABLE 4.1.8.9.)
R_o = OVERSTRENGTH-RELATED FORCE MODIFICATION (1.0)

• SITE CLASS FOR FOUNDATIONS 'C'

F_a = 1.0
F_v = 1.0

• DESIGN SPECTRAL ACCELERATION VALUES:

S_a(0.2) = 0.18
S_a(0.5) = 0.11
S_a(1.0) = 0.067
S_a(2.0) = 0.022

SEISMIC WEIGHT

WEIGHT OF ROOF = 59kN
25% SNOW ON ROOF = 21kN
TOTAL SEISMIC WEIGHT (W) = 80kN

$$V_{base} = 14kN (N-S/E-W)$$

b) **WIND**

p = qCeCgCp

WHERE

NORTH-SOUTH

q₅₀ = 0.44 kPa Ce = 0.9 CpCg(WINDWARD) = 1.37 CpCg(LLEEWARD) = 1.0
q(WINDWARD) = 0.59 kPa q(LLEEWARD) = 0.39 kPa V = 12 kN (N-S)

EAST-WEST

CpCg(WINDWARD) = 1.15 CpCg(LLEEWARD) = 0.8
q(WINDWARD) = 0.45 kPa q(LLEEWARD) = 0.36 kPa V = 7 kN (E-W)

DELEGATED DESIGN

1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO TO COMPLETE THE DESIGN.
2. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
 - 3.1 WOOD TO WOOD CONNECTIONS.
4. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.

INSPECTIONS AND TESTING

THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/ TESTING AGENCIES PAID FOR BY THE CONTRACTOR. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

SOILS

ALL TESTING AND INSPECTIONS (COMPACTION, BEARING CAPACITY ETC.) AS PER THE REQUIREMENTS OF THE SOIL REPORT AND/OR GEOTECHNICAL ENGINEER.

CONCRETE

CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2-14.

INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED WITH LOCATION AND TEST RESULTS FOR ALL ITEMS POURED. A MINIMUM OF THREE (3) CONCRETE CYLINDERS SHALL BE TESTED PER POUR.

TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

APPROVAL OF CONCRETE, GROUT AND MORTAR MIX DESIGNS.

TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE OR DEFECTS MAY BE DEEMED REJECTABLE. CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

SHOP DRAWINGS AND SUBMITTALS

GENERAL

1. REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS.
2. "PROFESSIONAL ENGINEER" IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
3. REVIEW OF DRAWINGS APPLIES TO GENERAL ARRANGEMENT ONLY FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ALLOW 5 WORKING DAYS FOR SHOP DRAWING REVIEW.
4. DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.

REINFORCED CONCRETE

SUBMIT FOR REVIEW OF REINFORCEMENT PLACING DRAWINGS AND BAR LISTS FOR EVERY PORTION OF THE STRUCTURE. SHOW WALLS IN FULL ELEVATION. SHOW TOP STEEL AND BOTTOM STEEL FOR SLABS ON SEPARATE PLANS WITH REINFORCING STEEL CALLED UP DIRECTLY ON PLAN.

CONCRETE

SUBMIT FOR REVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 15 WORKING DAYS PRIOR TO START OF WORK.

WOOD

SUBMIT FOR REVIEW ALL PLANS AND DETAILS FOR WOOD FRAMING. ALL WOOD TO WOOD CONNECTIONS SHALL BE DESIGNED AND THE DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.

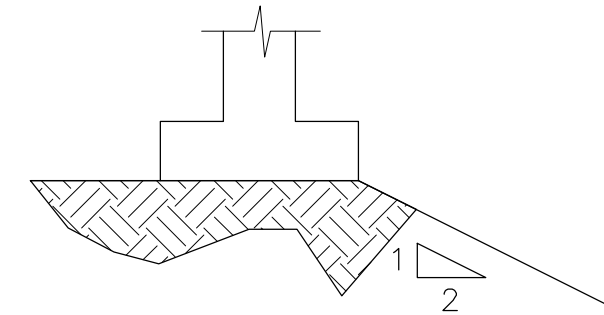


DRAWING NO.	DRAWING NAME
REFERENCE DRAWINGS	
5	03/23/18 ISSUED FOR TENDER F.A. C.V.T.
4	01/25/18 100% SUBMISSION F.A. C.V.T.
3	09/19/17 99% CLIENT REVIEW F.A. S.A.
2	06/15/17 66% CLIENT REVIEW F.A. S.A.
1	05/07/17 CLIENT REVIEW F.A. H.R.
NO.	DATE DESCRIPTION Drawn by Approved
	Dessine par Approve
REVISIONS	
	A Detail number A Numero de detail
	B Sheet number B Sur feuille numero
Linear dimensions in millimeters / Dimensions lineaires en millimetres	
<h1>Canada</h1>	
PARKS CANADA ROUGE NATIONAL URBAN PARK FIELD UNIT	
Type of Record / Type d'enregistrement	
Project title / Titre du projet	
PO# 45360751-RNUP NORTHERN WELCOME AREA MARKHAM, ONTARIO	
Drawing title / Titre du dessin	
WASHROOM AND PICNIC SHELTER GENERAL NOTES	
Plot Scale / Echelle	
1:50 (Arch D 24x36 Plot Size)	
Drawn by/ Dessine par	Date
F.A.	03/23/2018
Field Recording by / Releve-Temoin par	Date
---	03/23/2018
Approved by / Approuve par	Date
C.V.T.	03/23/2018
Checked by/ Verifie par	Date
S.A.	12/21/2017
Project No./ No. du projet	Asset No.
160622334	-
Sheet No./ Feuille No.	
	S1
Drawing Re No./No. du Dessin	
-	

GENERAL NOTES / TYPICAL DETAILS II

FOUNDATION AND GEOTECHNICAL NOTES

- FOUNDATION DESIGN IS BASED ON THE FOUNDATION INVESTIGATION SOIL REPORT REFERENCE #160622334 PREPARED BY STANTEC, TITLED "GEOTECHNICAL INVESTIGATION, ROUGE NATIONAL URBAN PARK, 19th AVENUE AT NINTH LINE, MARKHAM, ON. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
- STRIP FOOTINGS HAVE BEEN DESIGNED BASED ON A FACTORED BEARING RESISTANCE AS FOLLOWS :
 - STRIP FOOTING : 300 KPa (ULS) AND 200 KPa (SLS)
- BEAR ALL FOOTINGS ON UNDISTURBED SOIL NOTWITHSTANDING THE ELEVATIONS INDICATED ON THE DRAWINGS.
- BRING OVER-EXCAVATION AND CAVITIES IN THE FOOTING BASE UP TO THE REQUIRED LEVELS WITH 10 MPa CONCRETE.
- REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AS OUTLINED IN THE GEOTECHNICAL REPORT.
- REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
- PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.
- BEARING SURFACES TO BE INSPECTED IN THE FIELD BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO PRIOR TO PLACING CONCRETE. IMPROVE SUBGRADE AS DIRECTED IN WRITING BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
- GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE ENGINEER AND PAID FOR BY THE CONTRACTOR.
- FOUNDATION WALLS HAVE BEEN DESIGNED ASSUMING AN EFFECTIVE DRAINAGE SYSTEM IS PROVIDED BEHIND THE WALLS.
- BACKFILL MATERIAL SHALL BE AS OUTLINED IN THE GEOTECHNICAL REPORT.
- DO NOT BACKFILL BEHIND FOUNDATION WALLS UNTIL THE FLOOR SLAB(S) TO WHICH IT IS TIED ARE COMPLETE AND CONCRETE HAS REACHED 28-DAY DESIGN STRENGTH.
- DO NOT EXCAVATE BELOW A LINE EXTENDING DOWNWARD FROM ANY BEARING STRATA AT A SLOPE OF 1 VERTICAL TO 2 HORIZONTAL.



CAST-IN-PLACE REINFORCED CONCRETE

- CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
- SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
- DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
- FOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
- FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING PAID FOR BY CONTRACTOR.

CONCRETE				
ALL CONCRETE WORK TO BE IN ACCORDANCE WITH THE CSA STANDARDS CAN/CSA-A23.1-14 AND CAN/CSA-A23.3-14 WITH THE FOLLOWING FURTHER PROVISIONS.				
LOCATION	MIN. SPECIFIED 28 DAY CONC. STRENGTH	SLUMP	CLASS OF EXPOSURE	REMARKS
	MPa	mm		
WASHROOM TANK	35	80±30	A-1	
FOUNDATION WALLS FOOTINGS	35	80±30	F-2	USE HS OR Hsb CEMENT
SLAB ON GRADE	35	80±30	C-1	USE HS OR Hsb CEMENT

- NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS, SHALL BE REJECTED BY THE GENERAL CONTRACTOR.
- CALCIUM CHLORIDE ADMIXTURES SHALL NOT BE USED.
- CONCRETE COLOUR AND AGGREGATE SELECTION FOR ALL EXPOSED EXTERIOR CONCRETE SHALL BE UNIFORM FOR THE ENTIRE PROJECT AND SHALL BE ACCEPTABLE TO THE OWNER, ARCHITECT AND LANDSCAPE ARCHITECT. COORDINATE APPEARANCE WITH ARCHITECTURAL PRECAST.
- ACCEPTANCE OF EXPOSED CONCRETE SHALL BE TO THE APPROVAL OF ARCHITECT.
- DESIGN HOUSEKEEPING PADS IN ACCORDANCE TO CSA S832-06.

CONCRETE REINFORCEMENT

- REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
- DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30.18, GRADE 400. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA-W186.
- NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.
- SUBMIT SHOP DRAWINGS AND DETAILS FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.
- CLEAR CONCRETE COVER TO REINFORCEMENT – REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
- STANDARD END HOOK LENGTHS FOR REINFORCEMENT – REFER TO STANDARD END HOOKS TABLE.
- WELDED WIRE MESH TO CONFORM TO ASTM A497/A497M.
- REINFORCE ALL INTERIOR AND EXTERIOR SLABS ON GRADE WITH 10M AT 400 mm ON CENTRE UNLESS NOTED OTHERWISE ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING.

CONCRETE COVER (CLEAR TO REINFORCING)	
U/S FOOTING (AGAINST SOIL)	75mm
U/S FOOTINGS (NOT AGAINST SOIL)	50mm
FOOTINGS (SIDES AND TOP)	50mm
WALLS	40mm
WALLS AGAINST SOIL	50mm
SLABS AGAINST SOIL	75mm U/N
COLUMNS	40mm (TO TIES)
SLABS (TOP AND SOFFIT)	60mm

SLAB ON GRADE

- SLAB ON GRADE TO BE PLACED ON COMPACTED GRANULAR MATERIAL IN STRICT ACCORDANCE WITH THE SOIL REPORT. COMPACTION TESTS ON FILL MATERIAL TO BE CARRIED OUT PRIOR TO SLAB ON GRADE PLACEMENT.
- PROVIDE APPROVED PRE-FORMED KEYED CONTROL JOINTS OR SAW CUT (WITHIN 24 HOURS) AT MAXIMUM SPACING 4m. CUT 1/3 DEPTH OF SLAB AND FILL WITH APPROVED MASTIC JOINT FILLER.
- BREAK BOND AT SURFACES OF CONTACT WITH OTHER CONCRETE (USE ASPHALT WATERPROOFING, HEAVY DUTY POLYETHYLENE OR SAND LAYER).
- WHERE INDICATED PROVIDE 10mm ASPHALT IMPREGNATED FIBRE BOARD AND CAULKING AROUND ALL COLUMNS AND ALONG ALL WALLS.
- PROVIDE POLY FIBRE REINFORCING TYPICAL UNLESS OTHERWISE NOTED.
- PROVIDE CIRCULAR OR RECTANGULAR POCKETS AROUND COLUMNS. PLACE CONCRETE IN POCKETS 2 WEEKS AFTER SLAB IS CONSTRUCTED.
- DO NOT PLACE SLAB ON GRADE IN ONE CONTINUOUS POUR IN LENGTHS EXCEEDING 30.0m IN EITHER DIRECTION.
- SUBMIT FOR REVIEW LAYOUT DRAWING WITH CONSTRUCTION JOINT LOCATIONS AND SAWCUT PATTERN.
- MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSIONS AND CHANGES IN ELEVATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATIONS OF ALL FINISHES AND DEPRESSIONS.

TIMBER

- NEW WOOD ROOF FRAMING SHALL COMPLY WITH CSA 086, THE LOAD REQUIREMENTS OF PART 4, AND THE PRESCRIPTIVE CONSTRUCTION REQUIREMENTS OF PART 9 OF THE ONTARIO BUILDING CODE, UNLESS OTHERWISE NOTED.
- BOLTS TO CONFORM TO ASTM A307.
- UNLESS NOTED OTHERWISE, LIMIT ALLOWABLE DEFLECTION FOR TIMBER MEMBERS TO THE FOLLOWING:
 - LIVE LOAD – SPAN/360
 - TOTAL LOAD – SPAN/240
- DESIGN CONNECTIONS IN ACCORDANCE WITH CSA-086 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.
- PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
- BLOCK SOLID BETWEEN TRUSS AT BEARING LOCATIONS.
- SUPPLY TIMBER WITH PROPERTIES NOTED IN TIMBER GRADE TABLE.

TIMBER GRADE		
ITEM	SPECIES	GRADE
RAFTERS / CROSS TIES	SPRUCE-PINE-FIR (S-P-F) UNLESS NOTED	NO.1 OR NO.2
EXPOSED TIMBER BEAM / COLUMN	HEM-FIR	NO.1



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1	05/07/17	CLIENT REVIEW	F.A. H.R.
NO.	DATE	DESCRIPTION	Drawn by / Approved Dessine par / Approuvé

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B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters / Dimensions lineaires en millimetres



Canada

PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

Type of Record /
Type d'enregistrement

Project title / Titre du projet

PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin

WASHROOM AND
PICNIC SHELTER
GENERAL NOTES

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par Date
F.A. 03/23/2018

Field Recording by /
Releve-Temoin par Date
__ 03/23/2018

Approved by / Approuve par Date
C.V.T. 03/23/2018

Checked by/ Verifie par Date
S.A. 12/21/2017

Project No./ No. du projet Asset No. Sheet No./
160622334 - Feuille No.

Drawing Re No./No. du Dessin

S2

GENERAL NOTES / TYPICAL DETAILS III

WOOD SHEATHING / DIAPHRAGMS

1. PLYWOOD SHALL MEET REQUIREMENTS OF EITHER CSA 0121 DOUGLAS FIR PLYWOOD (DFP) OR CSA 0151 CANADIAN SOFTWOOD PLYWOOD (CSP), U/N.
2. PLYWOOD THICKNESS SHALL REFER TO SANDED GRADE.
3. INSTALLATION LAYOUT
 - 3.1. STANDARD PANEL SHALL BE 1220mm x 2440mm
 - 3.2. INSTALL WITH LONG DIMENSION AT RIGHT ANGLE TO SPAN OF JOISTS
 - 3.3. STAGGER THE SPACING OF ADJACENT PANELS
 - 3.4. MINIMUM PANEL SHALL BE 610mm WIDE AND HAVE TWO SPANS. WHERE MINIMUM CANNOT BE MET PROVIDE 38x286 BLOCKING AT FREE EDGES WITH 6-89mm COMMON WIRE NAILS (3 E.S.) BOTH ENDS
 - 3.5. MINIMUM END BEARING 19mm
4. ROOF SHEATHING
 - 4.1. 19mm T&G FIR PLY GLUED AND NAILED WITH 63mm LONG (2 1/2" COMMON NAIL) - 3.25 DIAMETER NAILS AT 100mm AROUND PANEL EDGES AND AT 200mm TO INTERMEDIATE FRAMING UNLESS NOTED OTHERWISE

WOOD FASTENERS

1. FASTENERS SHALL COMPLY WITH CSA 086.

MASONRY

ALL MASONRY TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND CAN/CSA-A370 (R2014), CAN/CSA-A371 (R2014) AND CSA S304 1-04.
 MINIMUM CONCRETE BLOCK UNIT STRENGTH (NET AREA) 15.0 MPa
 LOADING BEARING WALL MORTAR TYPE 'S' $f_c=12.4$ MPa
 NON LOAD BEARING WALL MORTAR TYPE 'N' $f_c=12.4$ MPa
 GROUT STRENGTH $f_c=20.0$ MPa
 MORTAR FOR EXPOSED AND BASEMENT SHALL BE AIR ENTRAINED

WALL THICKNESS	LOAD BEARING
190 mm	HORZ. HDMR @ 200 VERT 2-15M @ 1000

HDMR IS GALVANIZED LADDER TYPE HEAVY DUTY MASONRY REINFORCEMENT WITH 2-#6 Ga. (4.76mm) SIDE RODS (TOTAL AREA 35.6mm²).

PROVIDE ENGINEERED LATERAL BRACING FOR TEMPORARY SUPPORT OF ALL LOAD BEARING MASONRY WALLS UNTIL ROOF FRAMING IS IN PLACE.

VERTICAL BARS SHALL BE CONTINUOUS, LAPPED ONLY AT FLOORS OR HIGH LIFT CLEANOUT PORTS, DOWELED INTO SUPPORTS AND GROUTED INTO CLEAR VERTICAL BLOCK CORES SEALED ALL AROUND THE MORTAR.

CLEANOUT PORT TO CONSIST OF FULL FACE SHELL REMOVED AT BOTTOM OF EACH GROUTED CORE.

DO NOT CLOSE PORT OR PLACE GROUT UNTIL CORE AND STEEL HAVE BEEN INSPECTED. WHERE WALLS ARE EXPOSED PLACE CLEANOUT PORT ON NON-EXPOSED SIDE IF POSSIBLE, OTHERWISE RESET FACE SHELL TO SUIT EXPOSED FINISH TO ARCHITECT'S APPROVAL. PROVIDE BRACING AS REQUIRED TO SUPPORT FACE SHELL.

PROVIDE 2-10M (MIN.) GROUTED LOW WEB BOND BEAM AT TOP OF REINFORCED WALLS. EXTEND VERTICAL BARS TO TOP OF BOND BEAM. PROVIDE METAL LATH STRIP UNDER BOND BEAMS BETWEEN GROUTED CORES TO RETAIN BON BEAM GROUT.

PROVIDE APPROVED LATERAL SUPPORT TOP AND BOTTOM OF MASONRY PANELS AT GROUTED CORE LOCATIONS OR AT 2000mm MAXIMUM SPACING WHERE NO VERTICAL REINFORCEMENT IS REQUIRED. ALSO AT SIDES OF MASONRY PANELS PROVIDE CONNECTIONS TO STRUCTURAL STEEL OR CONCRETE COLUMN OR WALLS AT A MAXIMUM SPACING OF 4 TIMES THE WALL THICKNESS.

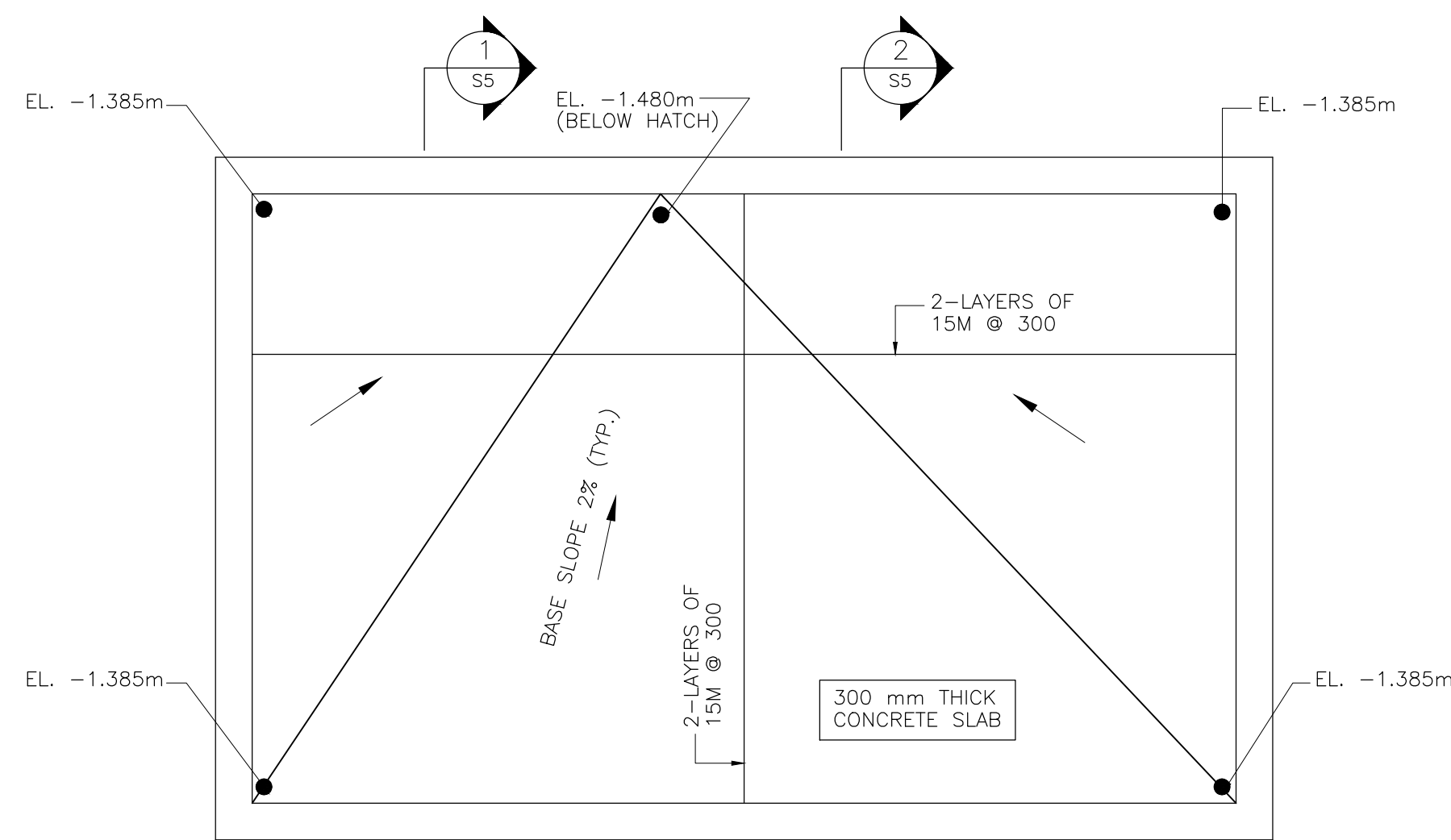
PROVIDE VERTICAL REINFORCEMENT BARS IN GROUTED CORES AT SIDES OF ALL OPENING AND ENDS OF WALLS/CONSTRUCTION JOINTS.

PROVIDE LINTELS FOR ALL OPENING AND/OR RECESSES IN MASONRY WALLS SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS, INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT.

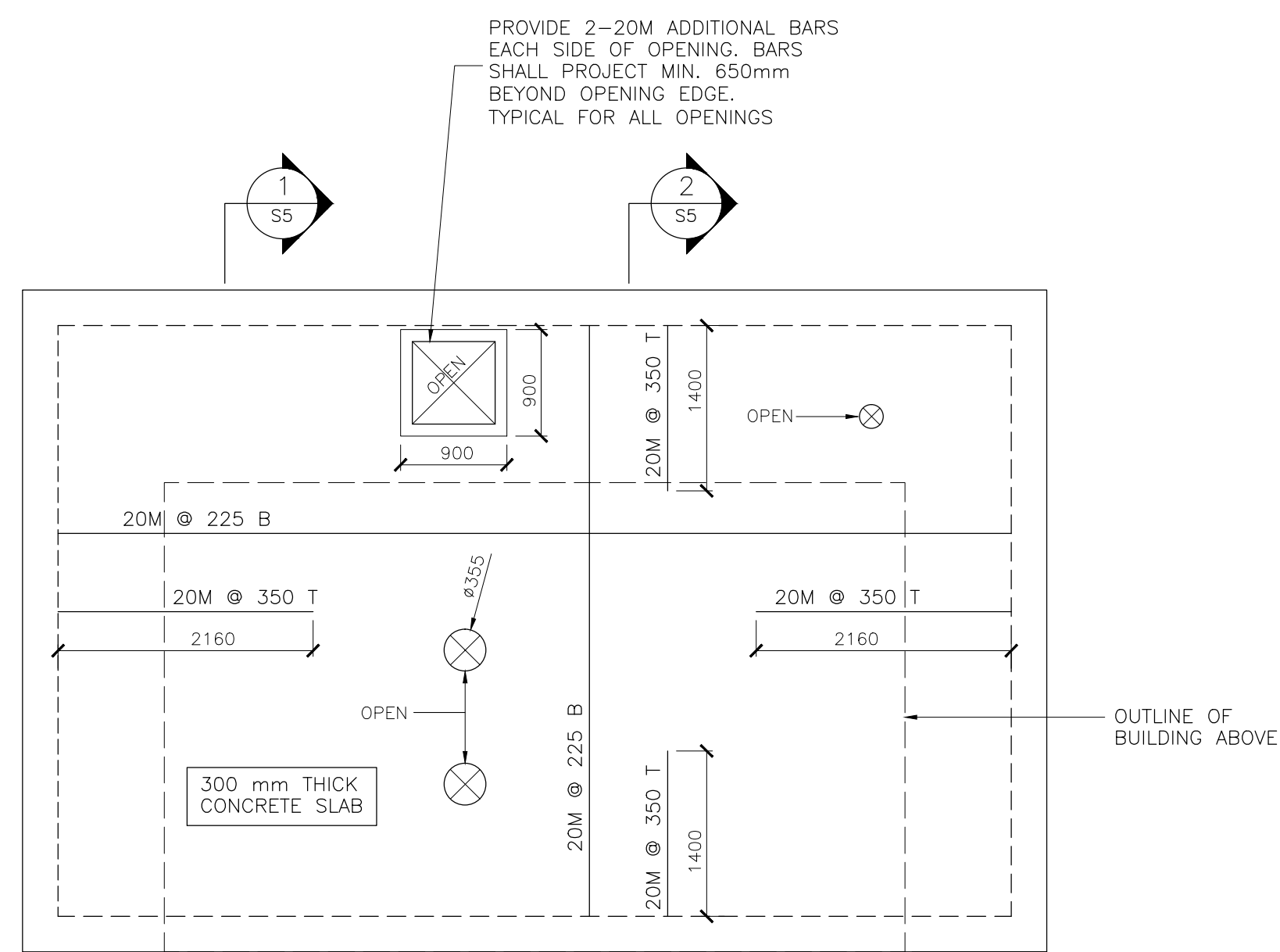
CONCRETE BLOCK LINTELS TO BEAR ON MINIMUM 1 COURSE GROUTED SOLID MASONRY UNLESS NOTED AS PER TYPICAL DETAILS.



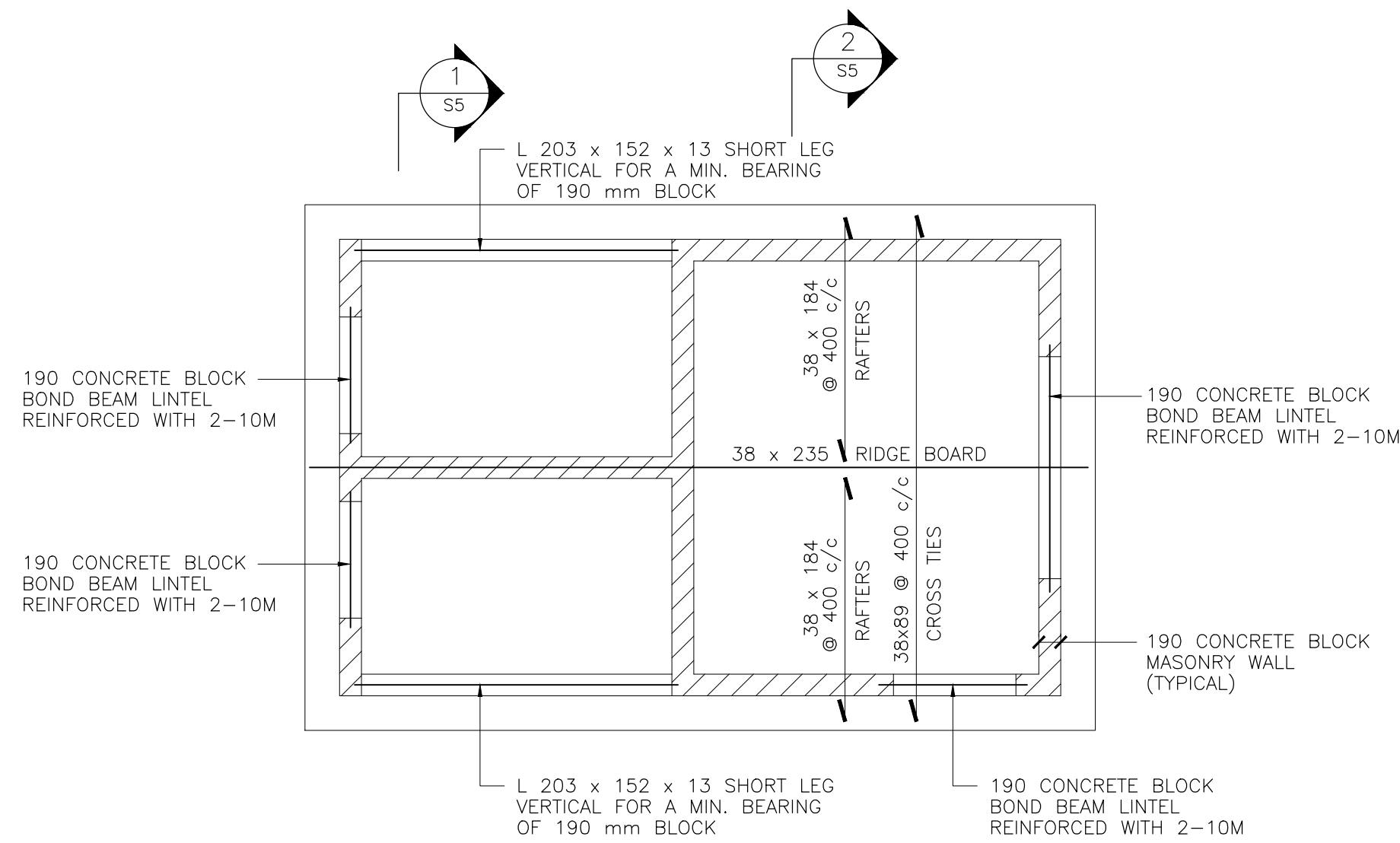
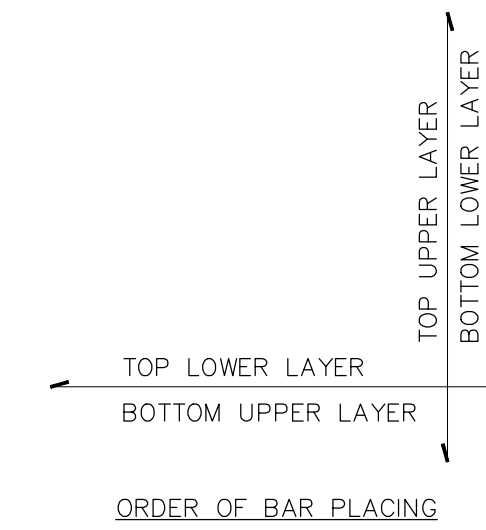
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PARCS CANADA ROUGE NATIONAL URBAN PARK FIELD UNIT			
Type of Record / Type d'enregistrement			
Project title / Titre du projet			
PO# 45360751-RNUP NORTHERN WELCOME AREA MARKHAM, ONTARIO			
Drawing title / Titre du dessin			
WASHROOM AND PICNIC SHELTER GENERAL NOTES			
Plot Scale / Echelle			
1:50 (Arch D 24x36 Plot Size)			
Drawn by/ Dessine par	Date		
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Field Recording by / Releve-Temoin par	Date		
---	03/23/2018		
Approved by / Approuve par	Date		
C.V.T.	03/23/2018		
Checked by/ Verifie par	Date		
S.A.	12/21/2017		
Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.	
160622334	-	S3	
Drawing Re No./No. du Dessin			
-			



SCALE: 1:50



SCALE: 1:50



SCALE: 1:50

NOTE:
REFER TO GENERAL NOTES FOR DESIGN LOADS, MATERIALS AND OTHER REQUIREMENTS.



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PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

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WASHROOM FRAMING PLANS

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by/ Dessine par Date
F.A. 03/23/2018

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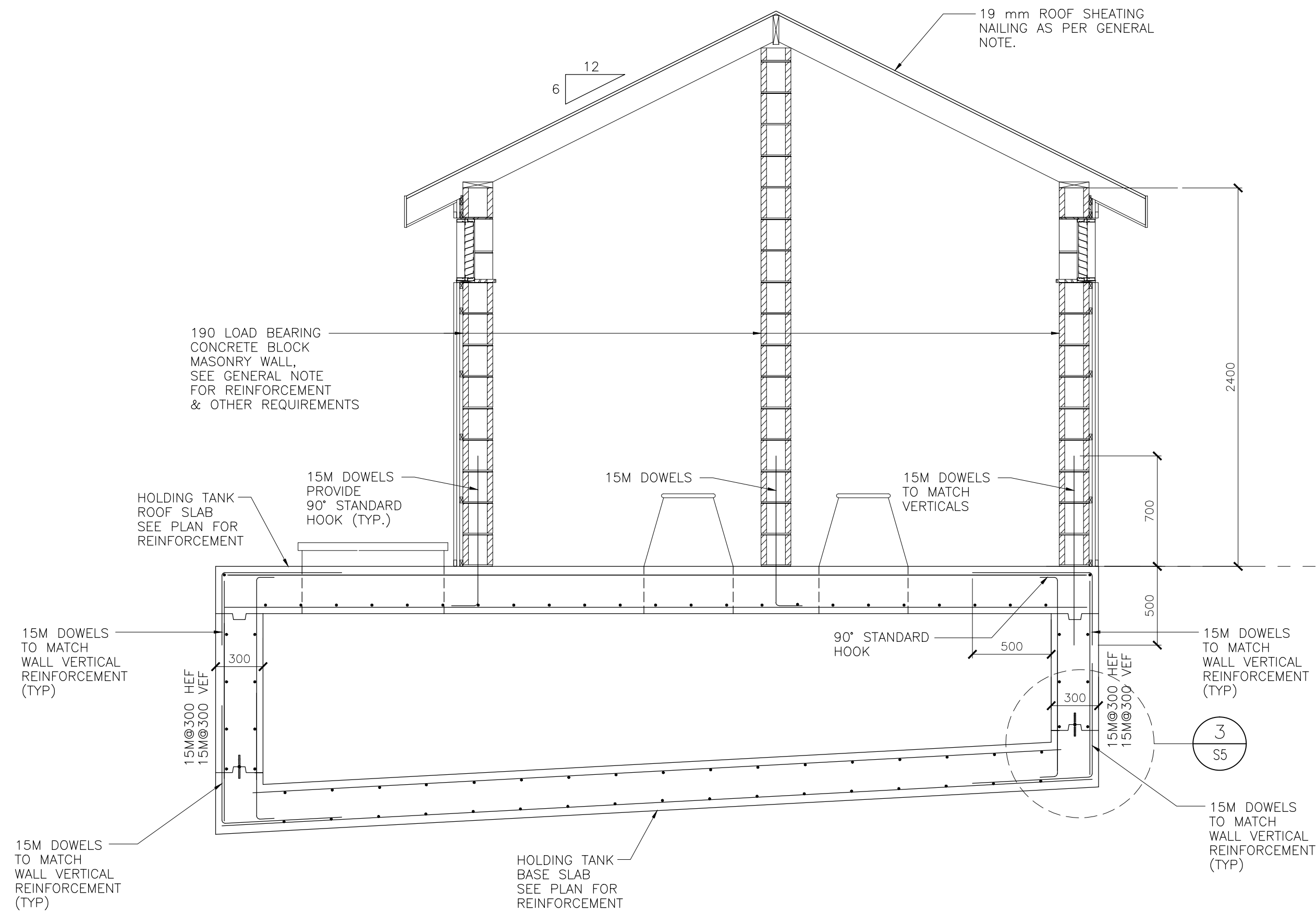
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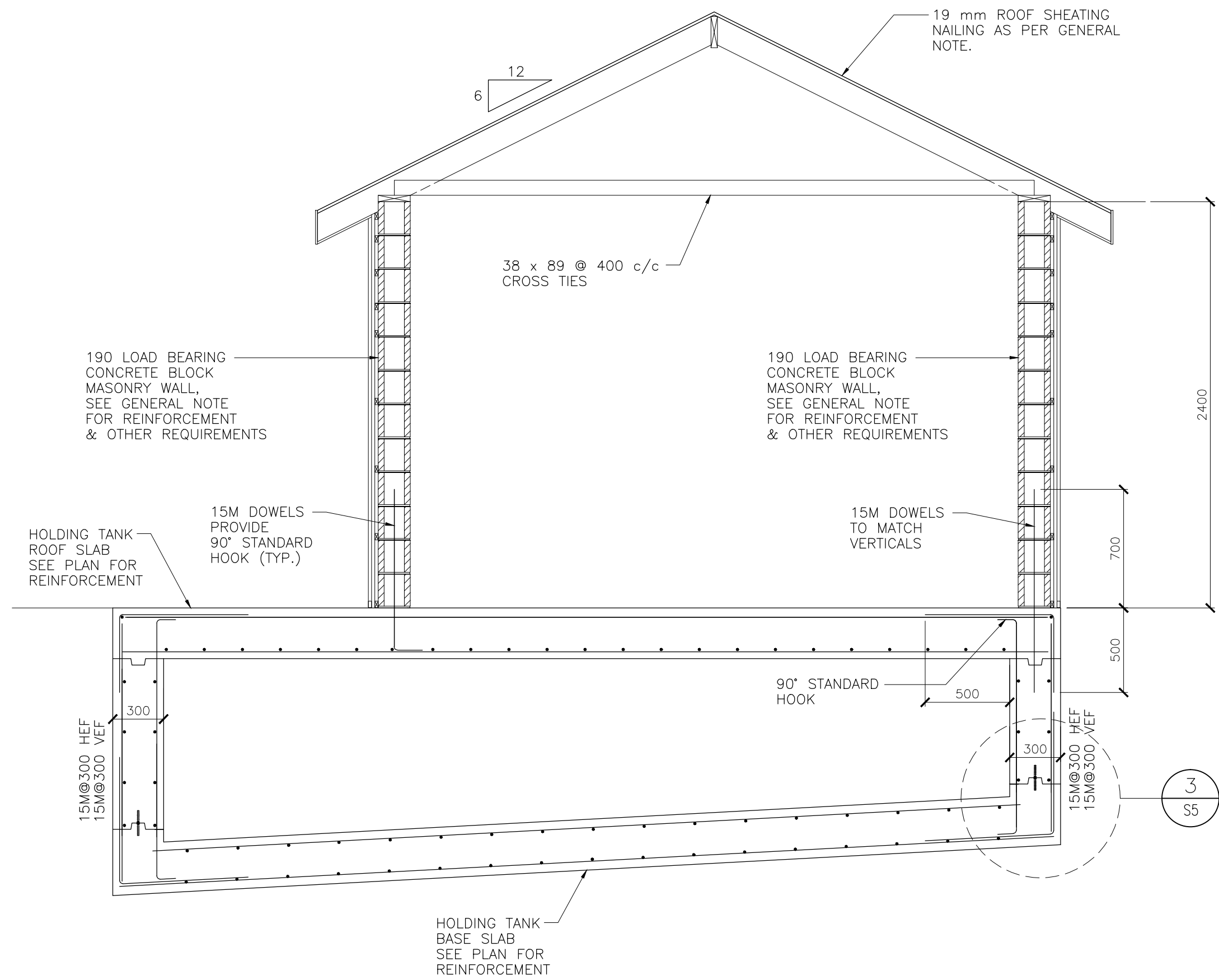
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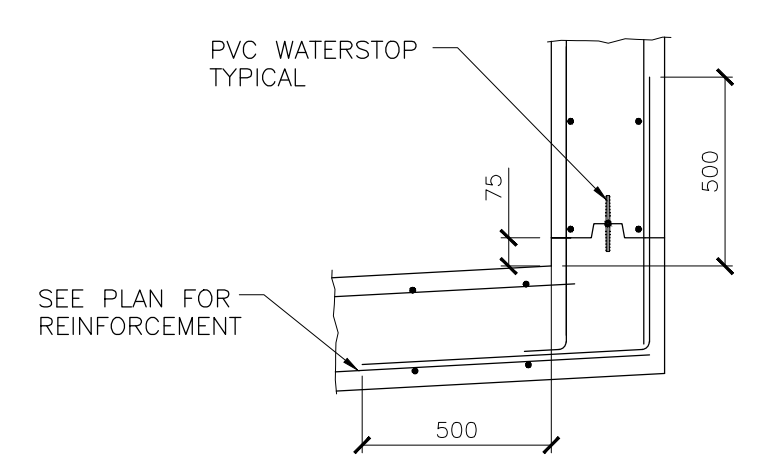
S4



1 SECTION
S5 SCALE 1 : 25



2 SECTION
S5 SCALE 1 : 25



3 SECTION
S5 SCALE 1 : 25

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NORTHERN WELCOME AREA
MARKHAM, ONTARIO**

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**WASHROOM
SECTIONS**

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

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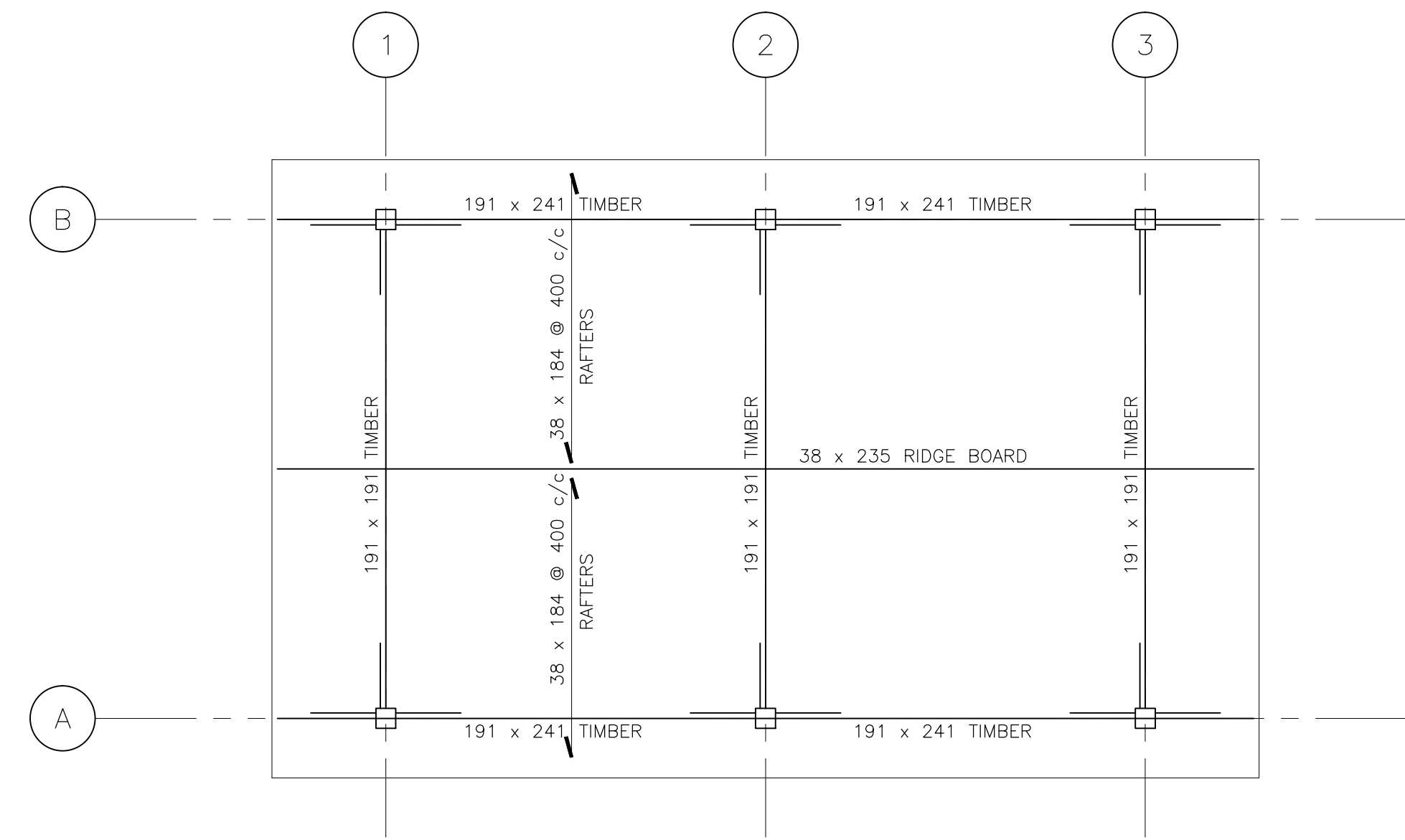
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C.V.T. / 03/23/2018

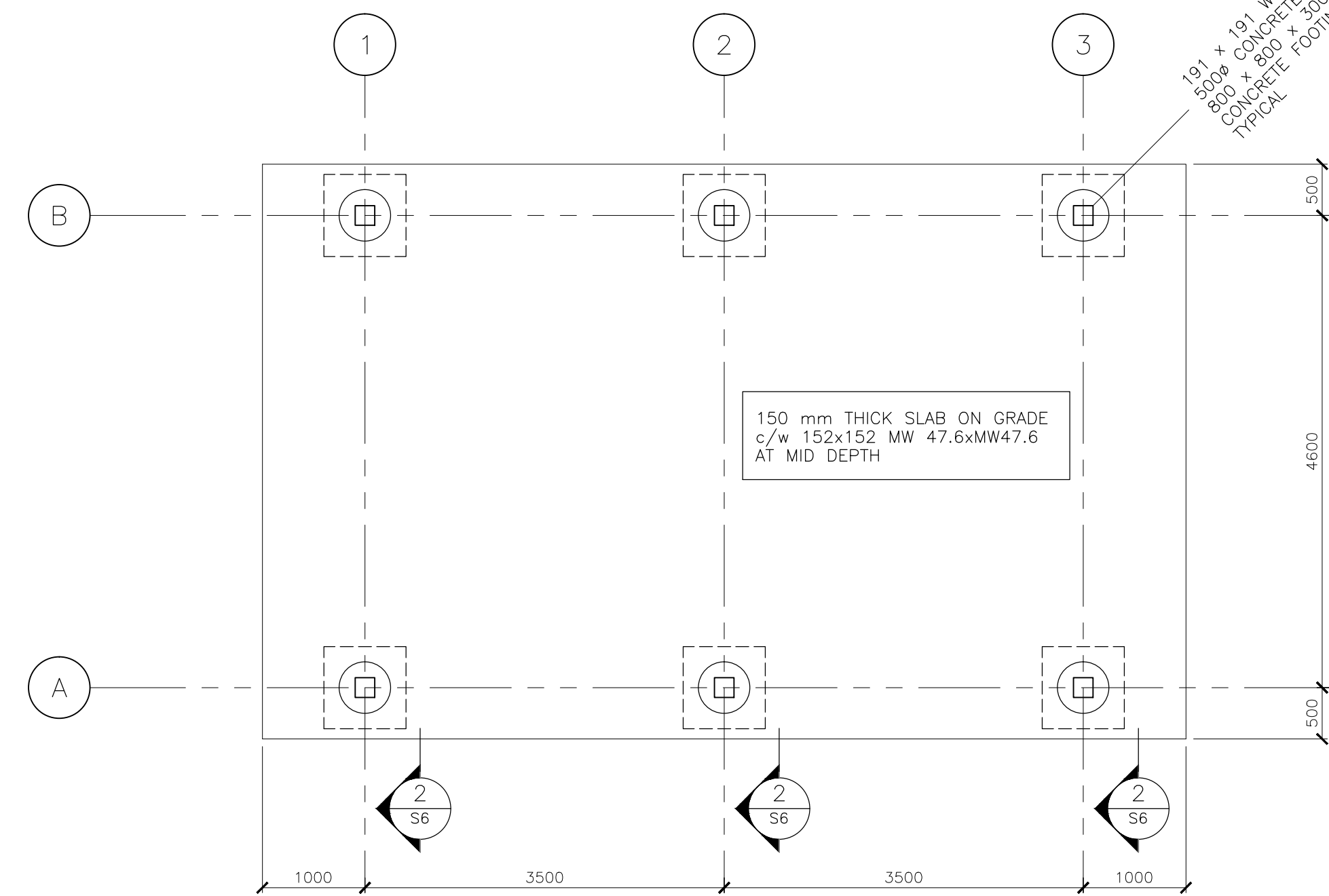
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Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
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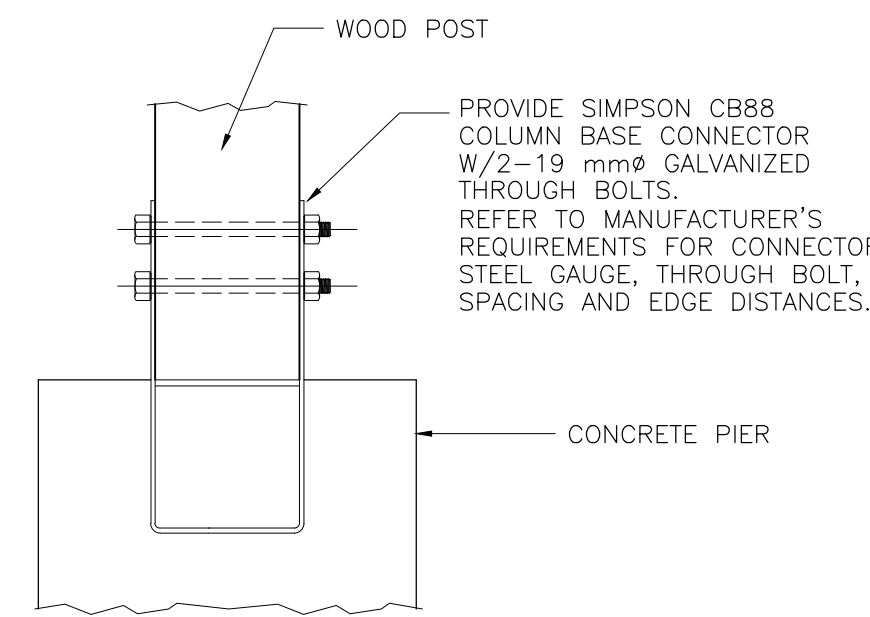
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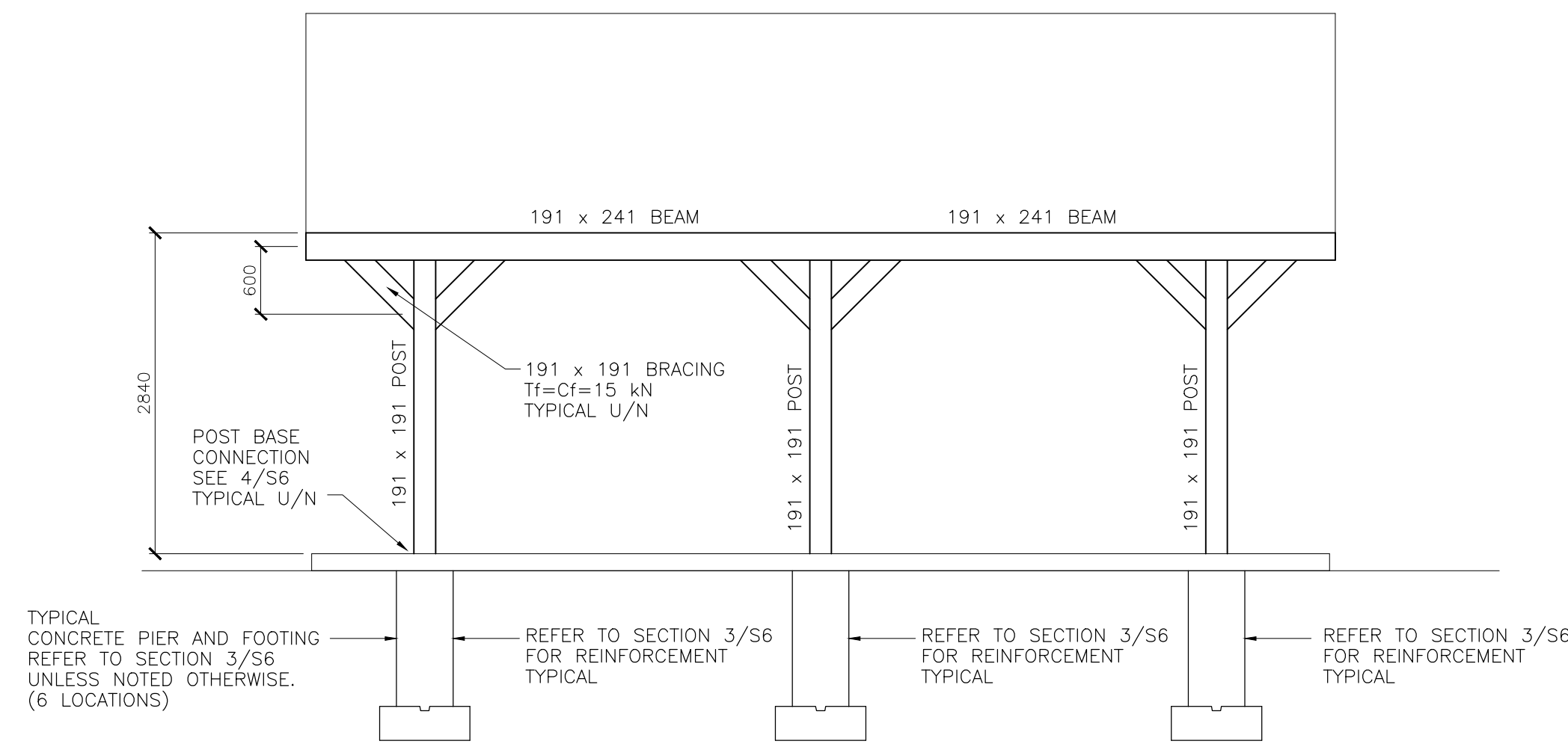
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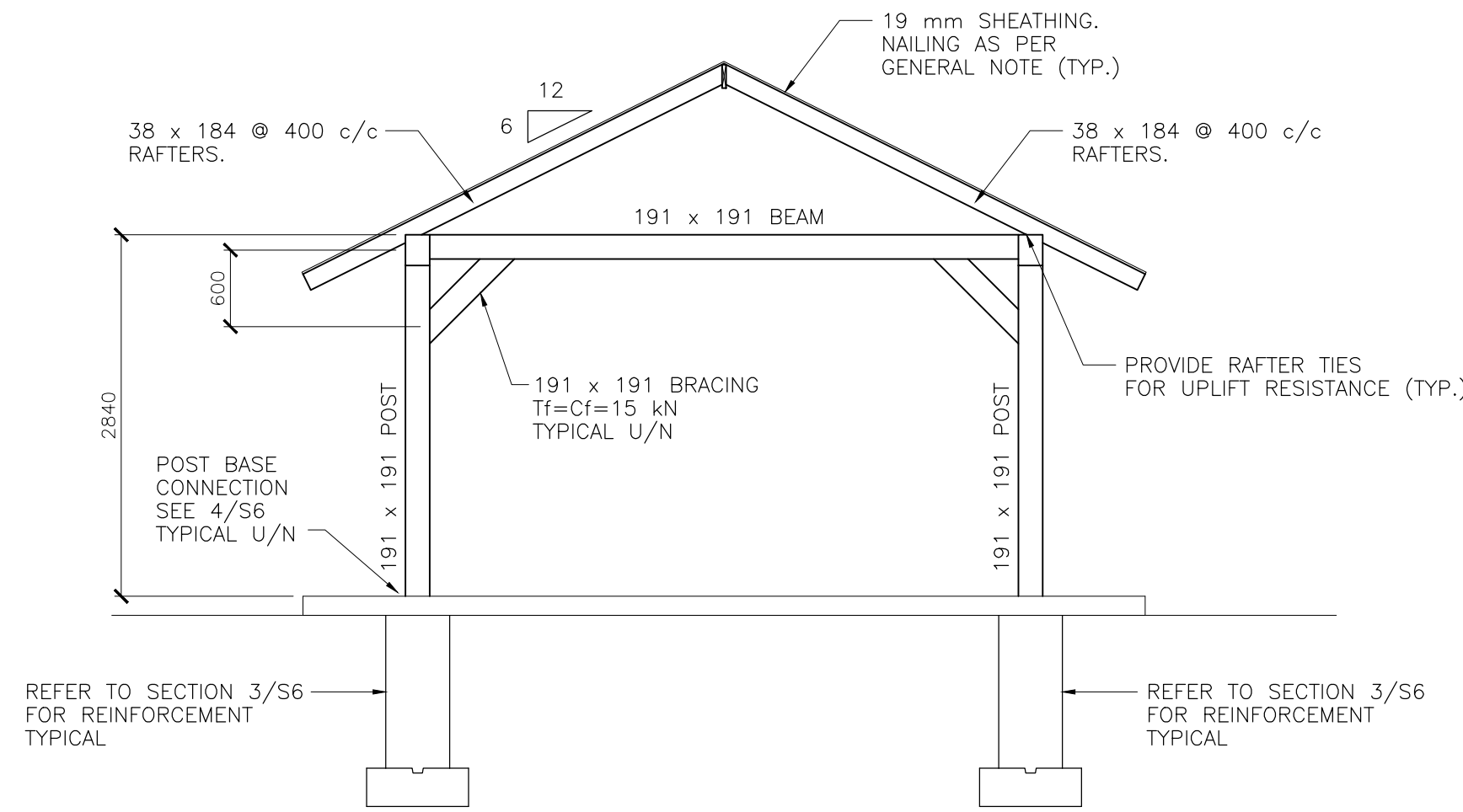
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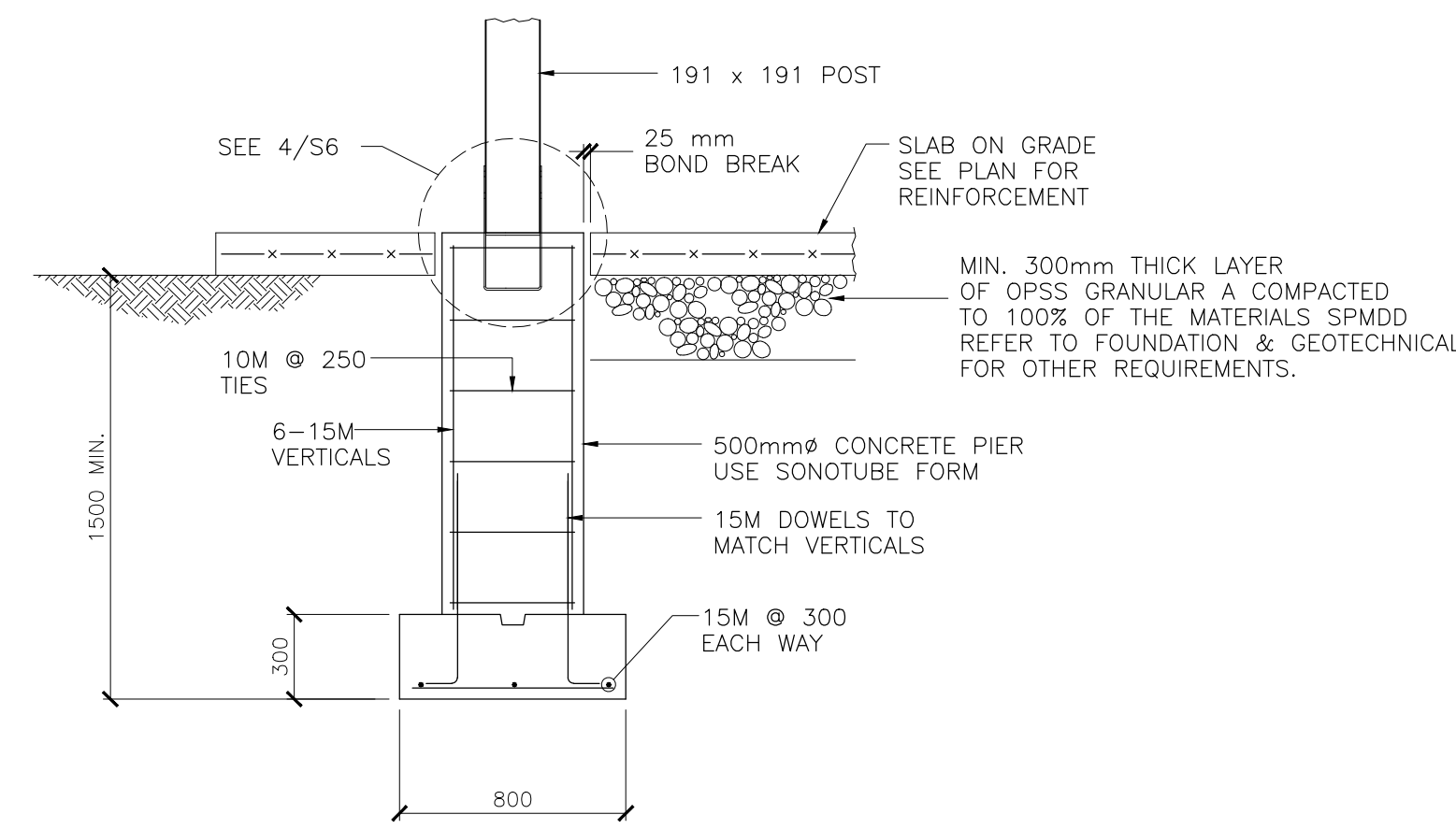
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NOTE: REFER TO GENERAL NOTES FOR DESIGN LOADS, MATERIALS AND OTHER REQUIREMENTS.



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PARKS CANADA
ROUGE NATIONAL URBAN PARK FIELD UNIT

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PO# 45360751-RNUP
NORTHERN WELCOME AREA
MARKHAM, ONTARIO

Drawing title / Titre du dessin

**PICNIC SHELTER
FRAMING PLANS,
ELEVATION & SECTIONS**

Plot Scale / Echelle
1:50 (Arch D 24x36 Plot Size)

Drawn by / Dessine par
F.A. Date
03/23/2018

Field Recording by /
Releve-Temoin par
Date
03/23/2018

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C.V.T. Date
03/23/2018

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S.A. Date
03/23/2018

Project No./ No. du projet
160622334 Asset No.
- Sheet No./
Feuille No.

Drawing Re No./No. du Dessin
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