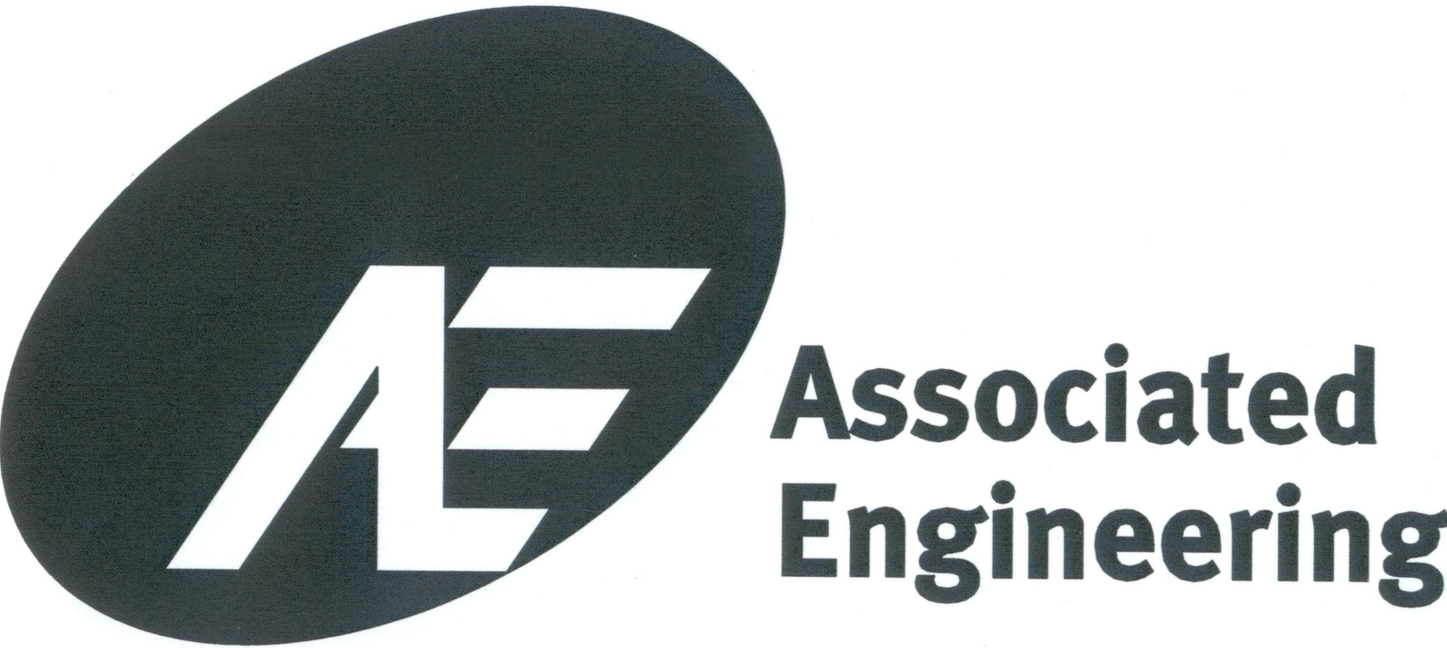


Banff National Park Johnston Canyon Parking Lot Upgrade

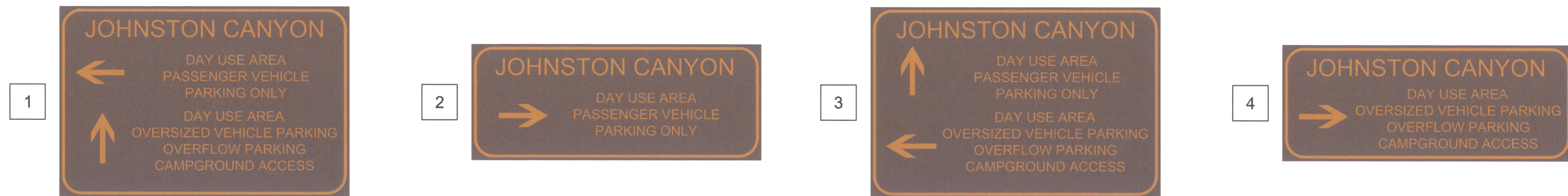
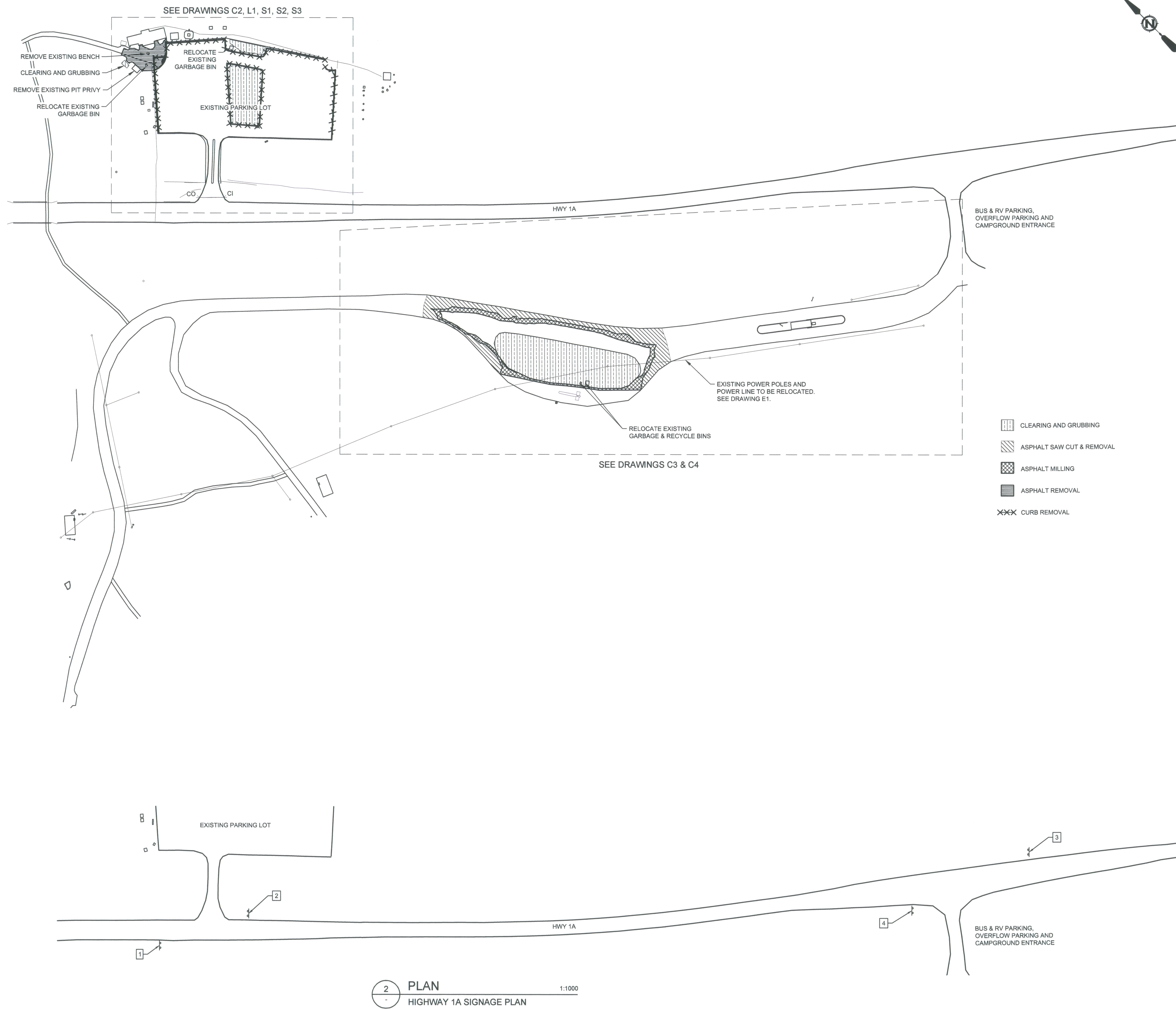
AE Project No. 20153475

ISSUED FOR TENDER
MAY 13, 2016



GLOBAL PERSPECTIVE.
LOCAL FOCUS.

DRAWING LIST	
GENERAL	
	COVER SHEET AND DRAWING LIST
CIVIL	
C1	REMOVALS, KEYPLAN AND HIGHWAY 1A SIGNAGE
C2	EXISTING PARKING LOT GRADING AND DESIGN
C3	OVERFLOW PARKING LOT GRADING
C4	OVERFLOW PARKING LOT DESIGN
C5	CIVIL DETAILS CROSS SECTIONS
LANDSCAPE	
L1	EXISTING PARKING LOT LANDSCAPE PLAN
L2	LANDSCAPE DETAILS GATEWAY AND KIOSK
ARCHITECTURAL	
A1	PIT PRIVY PLAN AND ELEVATIONS
STRUCTURAL	
S1	STRUCTURAL DETAILS SHEET 1 OF 3
S2	STRUCTURAL DETAILS SHEET 2 OF 3
S3	STRUCTURAL DETAILS SHEET 3 OF 3
S4	PIT PRIVY PLANS & SECTIONS
ELECTRICAL	
E1	OVERHEAD ELECTRICAL REALIGNMENT
E2	PARKING LOT COUNTER ELECTRICAL PLAN



NOTE:
SIGN SHOWN SCHEMATIC ONLY. CONTRACTOR TO PROVIDE SIGN DIMENSIONS AND FRENCH INSTRUCTION FOR REVIEW PRIOR TO ORDERING SIGNS.

0	2016MAY13	ISSUED FOR TENDER	B.P.	J.C.
No.	Date/Date	Description/Description	Drawn by Destiné par	Approved Approuvé

Revision / Revision
A detail number
B source drawing no.
C detail on drawing no.

Consultant's Name
Nom de l'expert-conseil
Associated Engineering
APEGA Permit to Practice P 3979

Eng. Stamp
Sceau de l'ingénieur
PROFESSIONAL ENGINEER
A.P.E.G.A.

Client/client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
**JOHNSTON CANYON
PARKING LOT UPGRADE**
BANFF NATIONAL PARK

Drawing title/Titre du dessin
**REMOVALS, KEYPLAN AND
HIGHWAY 1A SIGNAGE**

Surveyed by/Arpenté par E. CAMARA	Drawn by/Dessiné par B. PRATT	Date/Date 2016FEB17
Designed by/Concept par E. CAMARA	Reviewed by/Revisé par J. CHEN	Scale/Echelle AS SHOWN

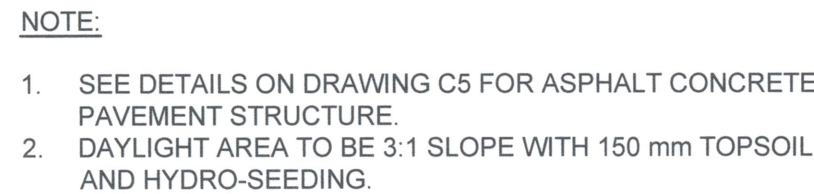
PWOSC Project Manager/Administrateur de Projets TPSCC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
---	--------------------------

Park Responsible Officer/Agent Responsable	PWOSC Project Manager/Administrateur de Projets TPSCC
--	---

Project No./No. du projet 20153475	Asset No./No. du bien	Sheet No./ No. de la feuille
---------------------------------------	-----------------------	---------------------------------

Drawing Reference No./No. de référence du dessin C1	2 15
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NOTE:

1. SEE DETAILS ON DRAWING C5 FOR ASPHALT CONCRETE PAVEMENT STRUCTURE.
2. DAYLIGHT AREA TO BE 3:1 SLOPE WITH 150 mm TOPSOIL AND HYDRO-SEEDING.


DIRECTION ARROW POINT TABLE			DIRECTION ARROW POINT TABLE		
PNT#	NORTHING	EASTING	PNT#	NORTHING	EASTING
DA 1	5677739.923	5809686.942	DA 21	5677766.035	5809764.777
DA 2	5677734.655	5809712.036	DA 22	5677762.652	5809780.861
DA 3	5677730.589	5809893.709	DA 23	5677755.307	5809682.356
DA 4	5677727.973	5809882.941	DA 24	5677752.692	5809651.588
DA 5	5677716.220	5809895.220	DA 25	5677788.202	5809731.198
DA 6	5677715.452	5809891.836	DA 26	5677785.887	5809724.430
DA 7	5677725.367	5810022.925	DA 27	5677777.194	5809662.712
DA 8	5677728.816	581006.783	DA 28	5677773.812	5809658.796
DA 9	5677737.205	581016.129	DA 29	5677800.497	5809684.800
DA 10	5677738.021	581016.898	DA 30	5677800.978	5809622.117
DA 11	5677749.832	581010.387	DA 31	5677789.575	5809560.599
DA 12	5677755.718	581006.023	DA 32	5677785.920	5809466.925
DA 13	5677742.363	5809907.343	DA 33	5677777.980	5809389.969
DA 14	5677738.981	5809934.426	DA 34	5677775.365	5809388.201
DA 15	56777763.481	5809904.548	DA 35	5677763.983	580945.947
DA 16	5677786.860	5809933.779	DA 36	5677759.769	5809502.022
DA 17	567752.473	5809894.062	DA 37	5677750.134	5809485.948
DA 18	5677749.091	580980.145	DA 38	5677750.697	5809485.615
DA 19	5677777.213	5809980.086			
DA 20	5677782.708	580985.238			



NOTE:

1. RELOCATE 50 mm PE SEWAGE FORCEMAIN PRIOR TO PIT PRIVY CONSTRUCTION. SEE S1 & S4 FOR PIT PRIVY DETAILS.



Revision / Revision	
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Consultant's Name Nom de l'expert-consult	
<div style="display: flex; align-items: center; justify-content: center;"> <div> <p style="font-size: 24px; margin: 0;">Associated</p> <p style="font-size: 24px; margin: 0;">Engineering</p> </div> </div>	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> APEGA Permit to Practice P 3979 </div>	

Client/client 	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet	<p>JOHNSTON CANYON PARKING LOT UPGRADE</p> <p>BANFF NATIONAL PARK</p>
Drawing title/Titre du dessin	<p>EXISTING PARKING LOT GRADING AND DESIGN</p>

Surveyed by/Agente par	Drawn by/Dessiné par B. PRATT	Date/Date 2015/IANJ31
Designed by/Concept par E. CAMARA	Reviewed by/Révisé par J. CHEN	Scale/Echelle AS SHOWN
PWGSC Project Manager/Administrateur de Projets TPGSC		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Part Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPGSC
Project No./No. du projet 20153475	Asset No./No. du bien	Sheet No./No. de la feuille 3
Drawing Reference/No./No. de référence du dessin		



Revision / Revision	
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
 <div style="display: flex; align-items: center;"> <div style="font-size: 2em; font-weight: bold; margin-right: 10px;">AE</div> <div> <p>Associated Engineering</p> </div> </div>	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> APEGA Permit to Practice P 3979 </div>	

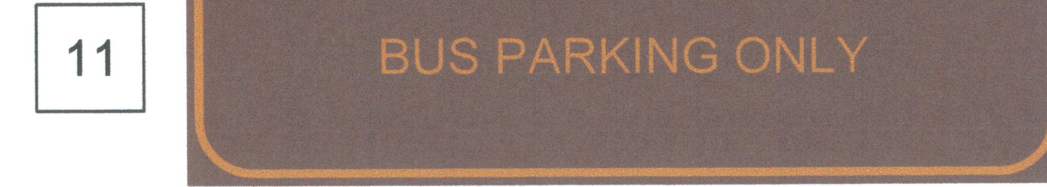
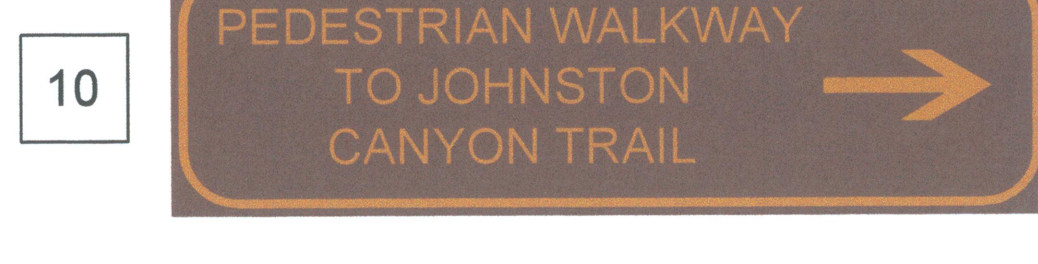
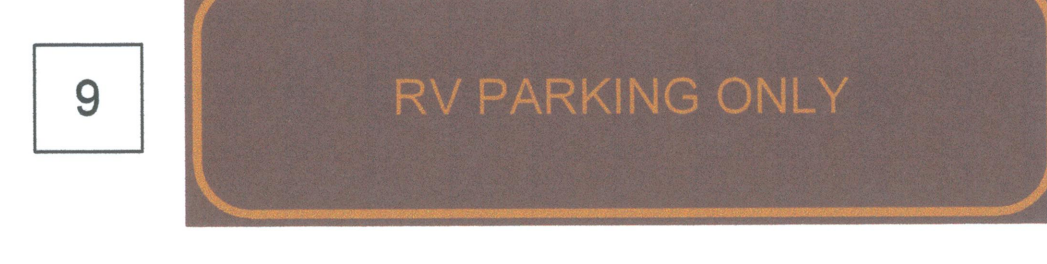
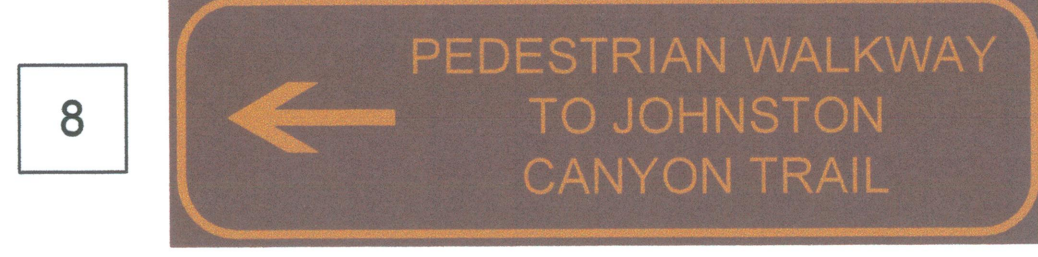
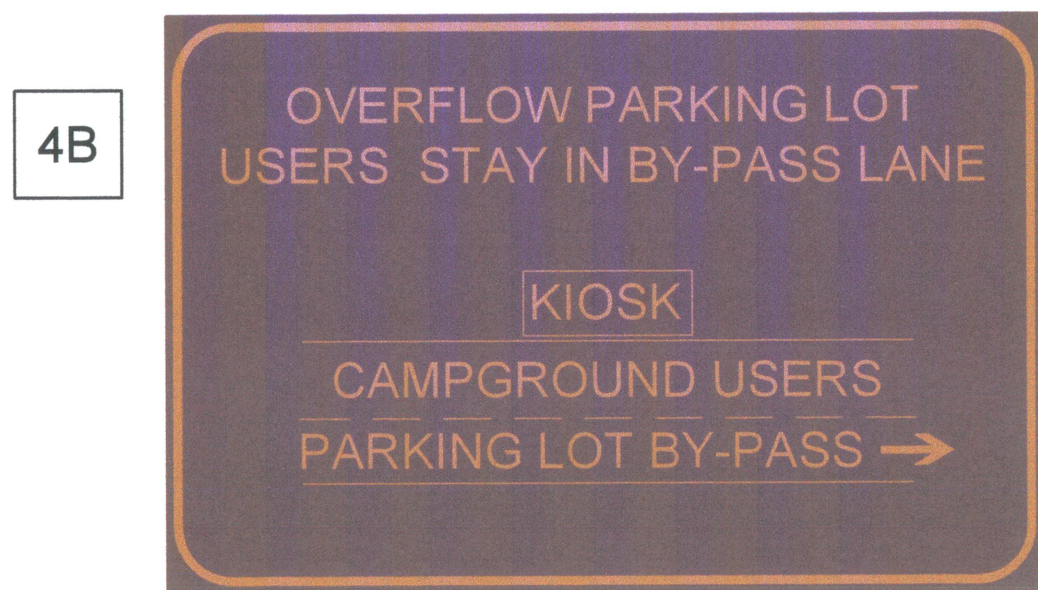
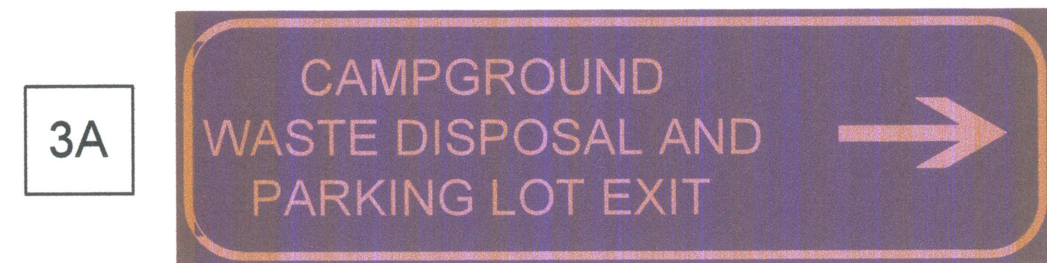
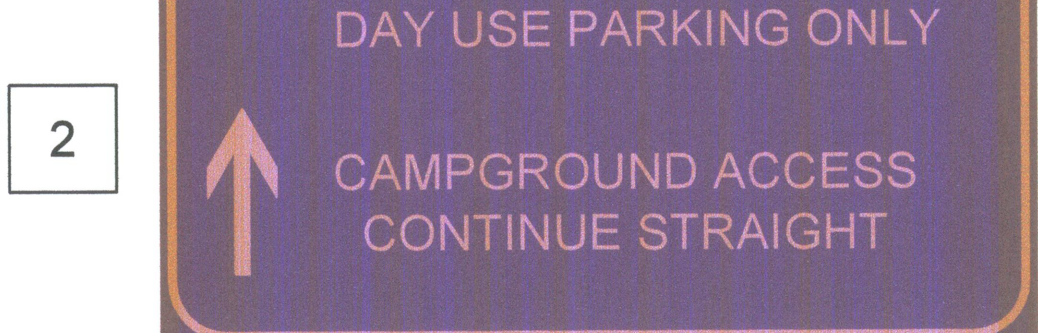
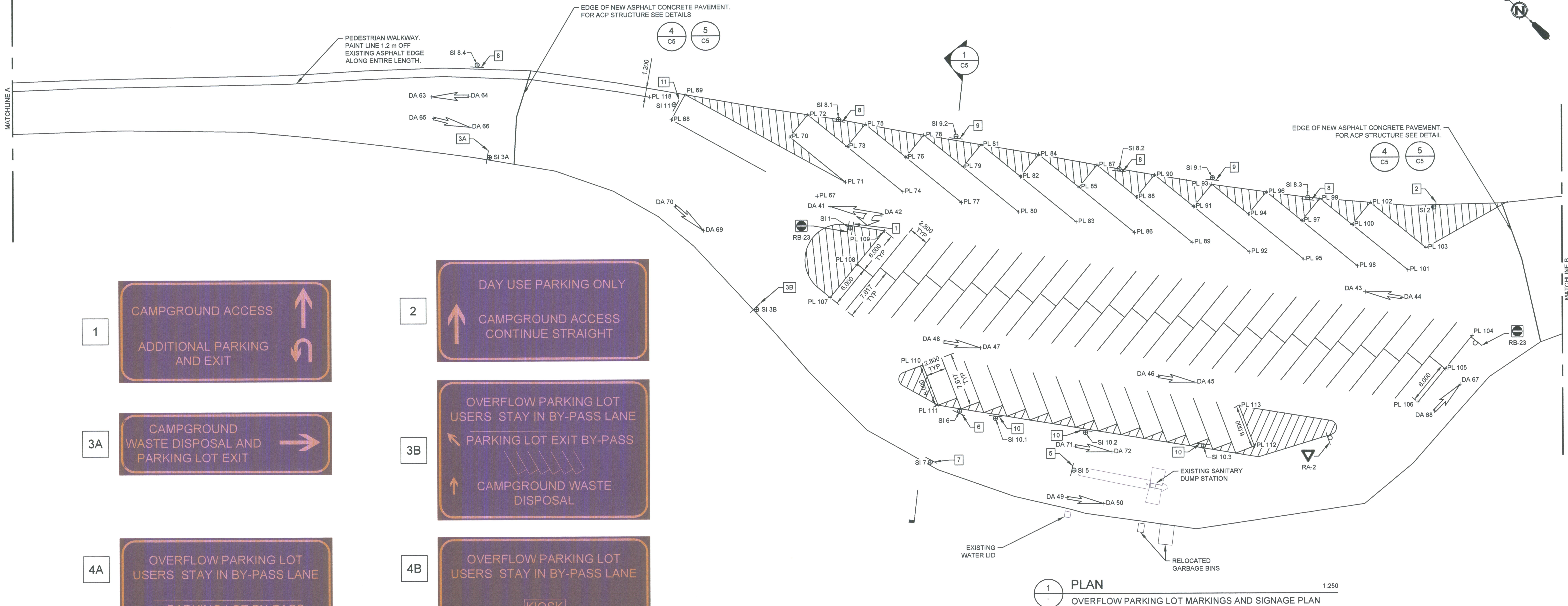
Project title/Titre du projet

JOHNSTON CANYON
PARKING LOT UPGRADE

BANFF NATIONAL PARK

Surveyed by/Arpenté par B. PRATT	Drawn by/Dessiné par B. PRATT	Date/Date 2015JAN31
Designed by/Concept par E. CAMARA	Reviewed by/Revisé par J. CHEN	Scale/Echelle 1:250

Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Peri. Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TRPSO	
Project No./No. du projet 20153475	Asset No./No. du bien	Sheet No./ No. de la feuille 4 15	
Drawing Reference No./No. de référence du dessin C3			



NOTE:

SIGN SHOWN SCHEMATIC ONLY. CONTRACTOR TO PROVIDE SIGN DIMENSIONS AND FRENCH INSTRUCTION FOR REVIEW PRIOR TO ORDERING SIGNS.

PAINT LINE POINT TABLE		
PNT#	NORTHING	EASTING
PL 67	5677562.931	580985.747
PL 68	5677564.910	580979.077
PL 69	5677586.006	580982.924
PL 70	5677571.461	580988.953
PL 71	5677561.506	580989.900
PL 72	5677571.839	580992.935
PL 73	5677564.829	580993.902
PL 74	5677564.874	580994.549
PL 75	5677565.208	580997.584
PL 76	5677557.940	580988.276
PL 77	5677547.985	580989.223
PL 78	5677558.319	581002.288
PL 79	5677551.320	581002.924
PL 80	5677541.365	581003.871
PL 81	5677551.699	581006.906
PL 82	5677544.645	581007.577
PL 83	5677534.690	581008.524
PL 84	5677545.024	581011.559
PL 85	5677537.810	581012.245
PL 86	5677527.855	581013.193

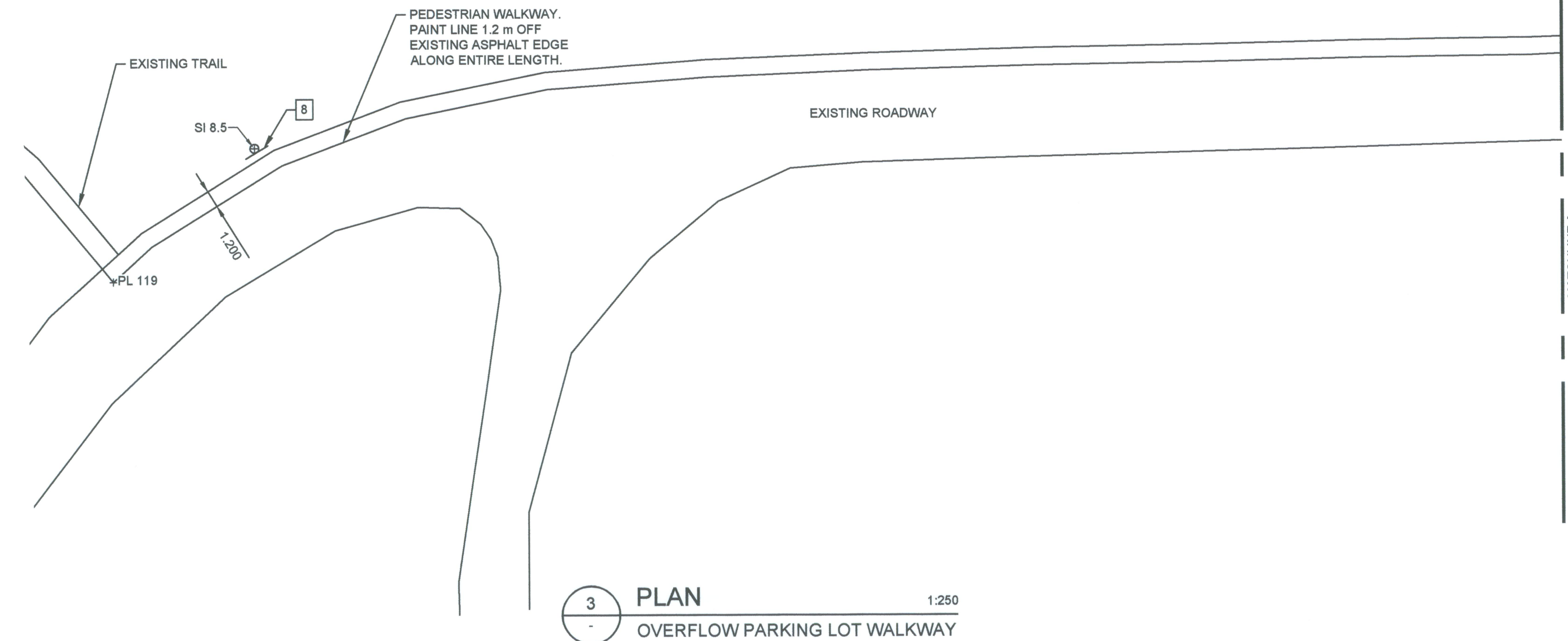
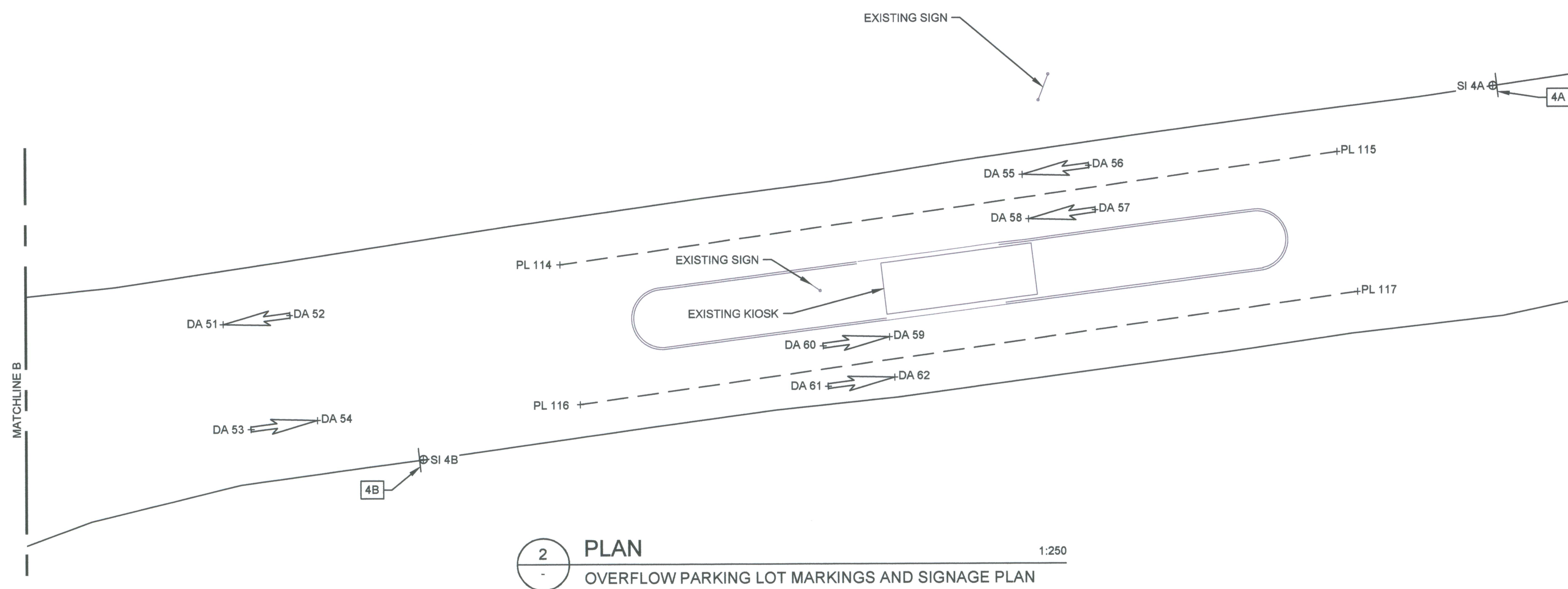
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PL 87	5677538.188	581016.227
PL 88	5677531.118	581016.900
PL 89	5677521.163	581017.847
PL 90	5677531.497	581020.882
PL 91	5677524.516	581021.546
PL 92	5677514.561	581022.494
PL 93	5677524.895	581025.528
PL 94	5677518.351	581026.151
PL 95	5677508.396	581027.098
PL 96	5677518.730	581030.133
PL 97	5677512.383	581030.737
PL 98	5677502.428	581031.684
PL 99	5677512.762	581034.719
PL 100	5677506.991	581035.268
PL 101	5677497.036	581036.216
PL 102	5677507.370	581039.250
PL 103	5677467.415	581040.198
PL 104	5677484.231	581035.994
PL 105	5677483.663	581030.021
PL 106	5677483.094	581024.048

PAINT LINE POINT TABLE		
PNT#	NORTHING	EASTING
PL 107	5677551.739	580976.919
PL 108	5677562.307	580982.892
PL 109	5677562.875	580988.865
PL 110	5677535.930	580979.280
PL 111	5677530.473	580976.766
PL 112	5677495.063	581003.881
PL 113	5677500.520	581006.176
PL 114	5677481.353	581009.275
PL 115	5677424.794	581137.534
PL 116	5677452.678	581082.703
PL 117	5677416.120	581130.962
PL 118	5677589.275	580979.197
PL 119	5677713.064	580983.098

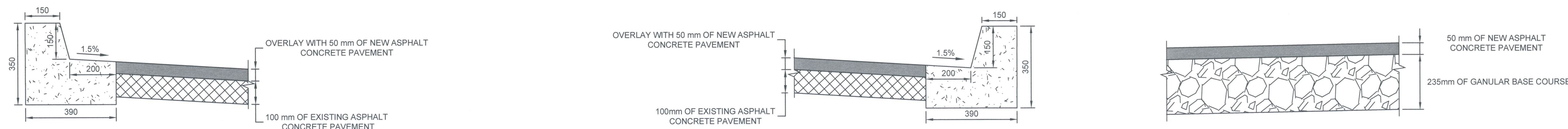
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DA 43	5677499.121	581029.878
DA 44	5677494.905	581032.879
DA 45	5677507.194	581004.188
DA 46	5677511.410	581001.188
DA 47	5677531.854	580986.640
DA 48	5677536.070	580983.640
DA 49	5677508.615	580980.196
DA 50	5677504.399	580983.197
DA 51	5677476.614	581067.775
DA 52	5677473.453	581071.873
DA 53	5677469.415	581063.516
DA 54	5677466.255	581067.614
DA 55	5677440.853	581119.252
DA 56	5677437.692	581123.350
DA 57	5677434.928	581121.284
DA 58	5677438.089	581117.166
DA 59	5677439.368	581103.157
DA 60	5677442.529	581099.060

DIRECTION ARROW POINT TABLE		
PNT#	NORTHING	EASTING
DA 61	5677440.064	581087.115
DA 62	5677436.903	581101.213
DA 63	5677611.000	580987.898
DA 64	5677607.382	580981.598
DA 65	5677608.658	580955.953
DA 66	5677604.221	580958.616
DA 67	5677480.648	581029.967
DA 68	5677480.576	581024.782
DA 69	5677570.867	580971.196
DA 70	5677576.033	580970.879
DA 71	5677512.844	580986.138
DA 72	5677508.628	580989.139

SIGN POINT TABLE		
PNT#	NORTHING	EASTING
SI 1	5677566.530	580985.823
SI 2	5677500.604	581045.001
SI 3A	5677599.331	580957.526
SI 3B	5677557.867	580968.532
SI 4A	5677419.812	581149.571
SI 4B	5677458.319	581071.200
SI 5	5677510.627	580983.609
SI 6	5677827.754	580978.283
SI 7	5677525.690	580970.346
SI 8.1	5677568.334	580995.471
SI 8.2	5677535.990	581018.002
SI 8.3	5677514.052	581033.635
SI 8.4	5677609.601	580965.526
SI 8.5	5677712.584	580849.565
SI 9.1	5677525.472	581026.253
SI 9.2	5677554.997	581005.301
SI 10.1	5677523.476	580981.089
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SI 10.3	5677500.133	580986.659
SI 11	5677586.114	580990.849



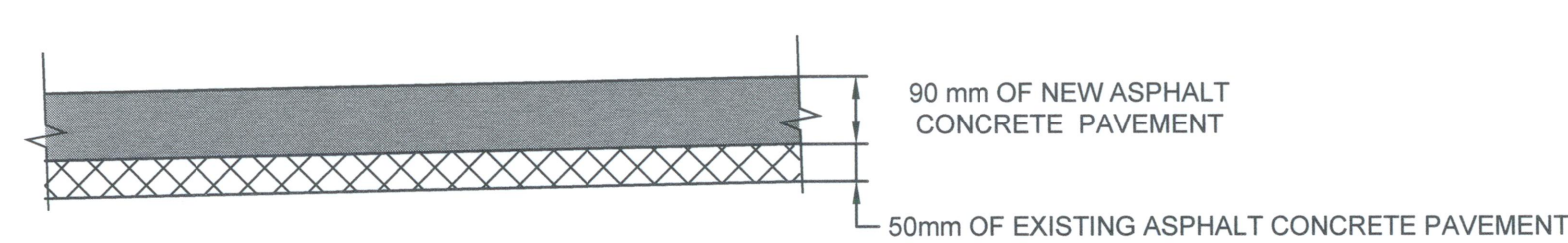
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No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
Revision / Révision				
A detail number B source drawing no. C detail on drawing no.		A B C		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur		
Associated Engineering		APEGA Permit to Practice P 3979		
Client/Client		L'Agence Parcs Canada		
Parks Canada Agency		Western and Northern Region		
Project Title/Titre du projet		JOHNSTON CANYON PARKING LOT UPGRADE		
Drawing Title/Titre du dessin		OVERFLOW PARKING LOT DESIGN		
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date		
E. CANARA	J. CHEN	2016FEB25		
Designed by/Conçu par	Reviewed by/Revisé par	Scale/Echelle		
E. CANARA	J. CHEN	AS SHOWN		
PWSC Project Manager/Administrateur de Projets TPSC				
Client Acceptance/Acceptation du client		Approved by/Approuvé par		
Per Responsable Other/Agent Responsable		PWSC Project Manager/Administrateur de Projets TPSC		
Project No./No. du projet	Asses No./No. du-bien	Sheet No./No. de la feuille		
20153475		5		
Drawing Reference No./No. de référence du dessin		C4		



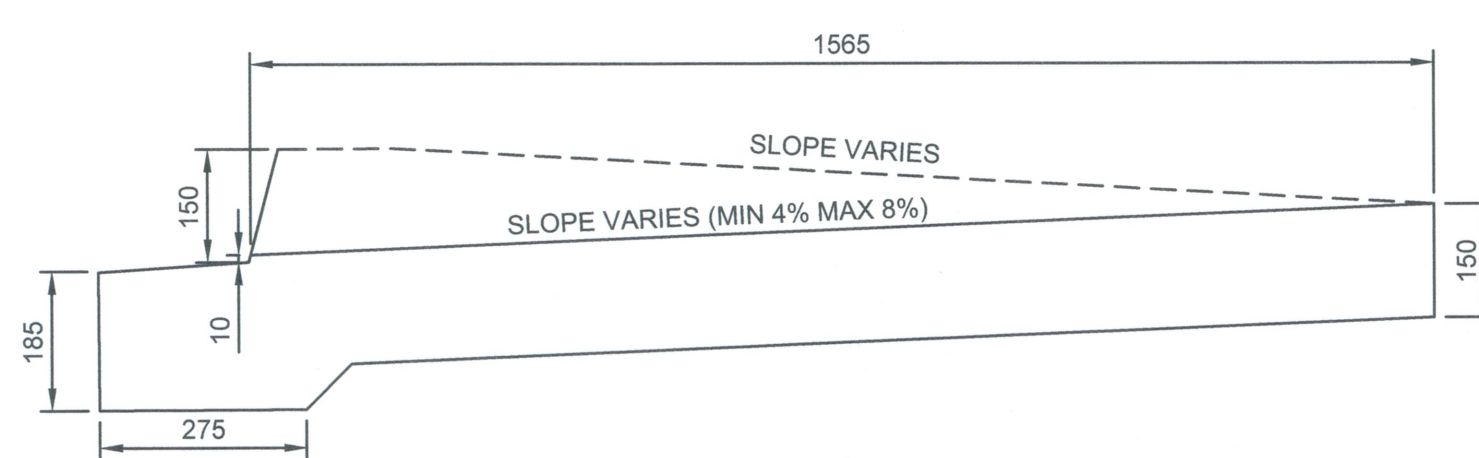
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C2

DETAIL

EXISTING PARKING NEW PAVEMENT

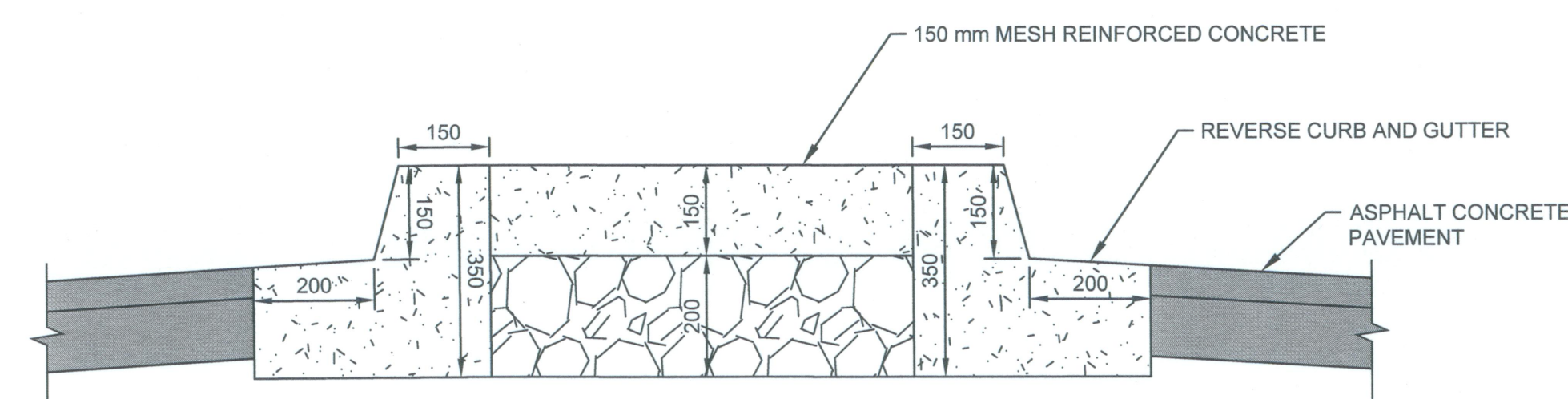


5 DETAIL NTS
C4 OVERFLOW PARKING LOT EXISTING PAVEMENT



6 6
S1 C2

DETAIL NTS
WHEEL CHAIR RAMP

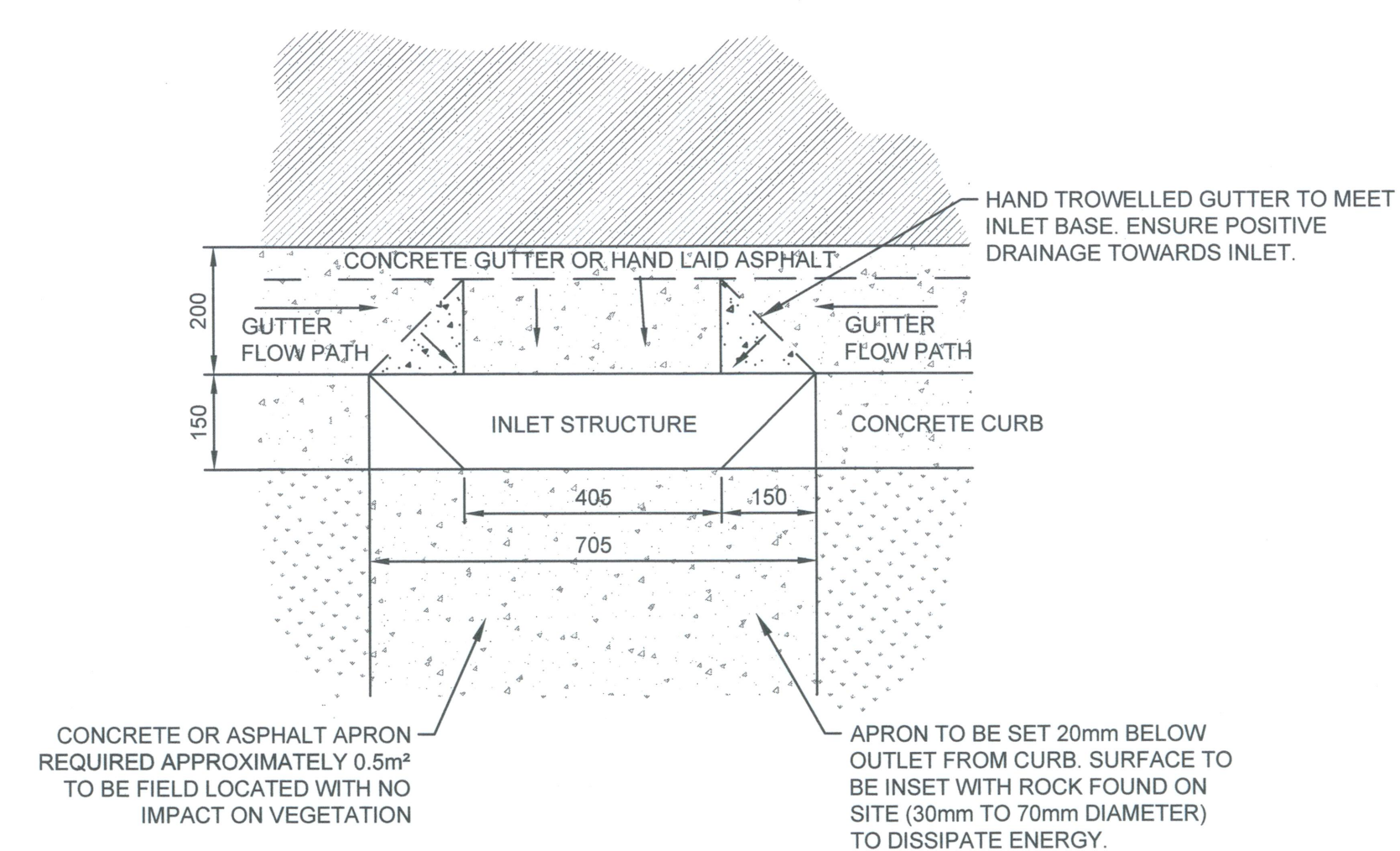


8
C2

DETAIL



CONCRETE MEDIAN


NTS



TYPICAL PLAN VIEW

7 **DETAIL** **NTS**
C2 **CURB INLET STRUCTURE**

Revision / Revision		
	<p>A detail number numero de detail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no. detail sur dessin no.</p>	

Client/client  Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

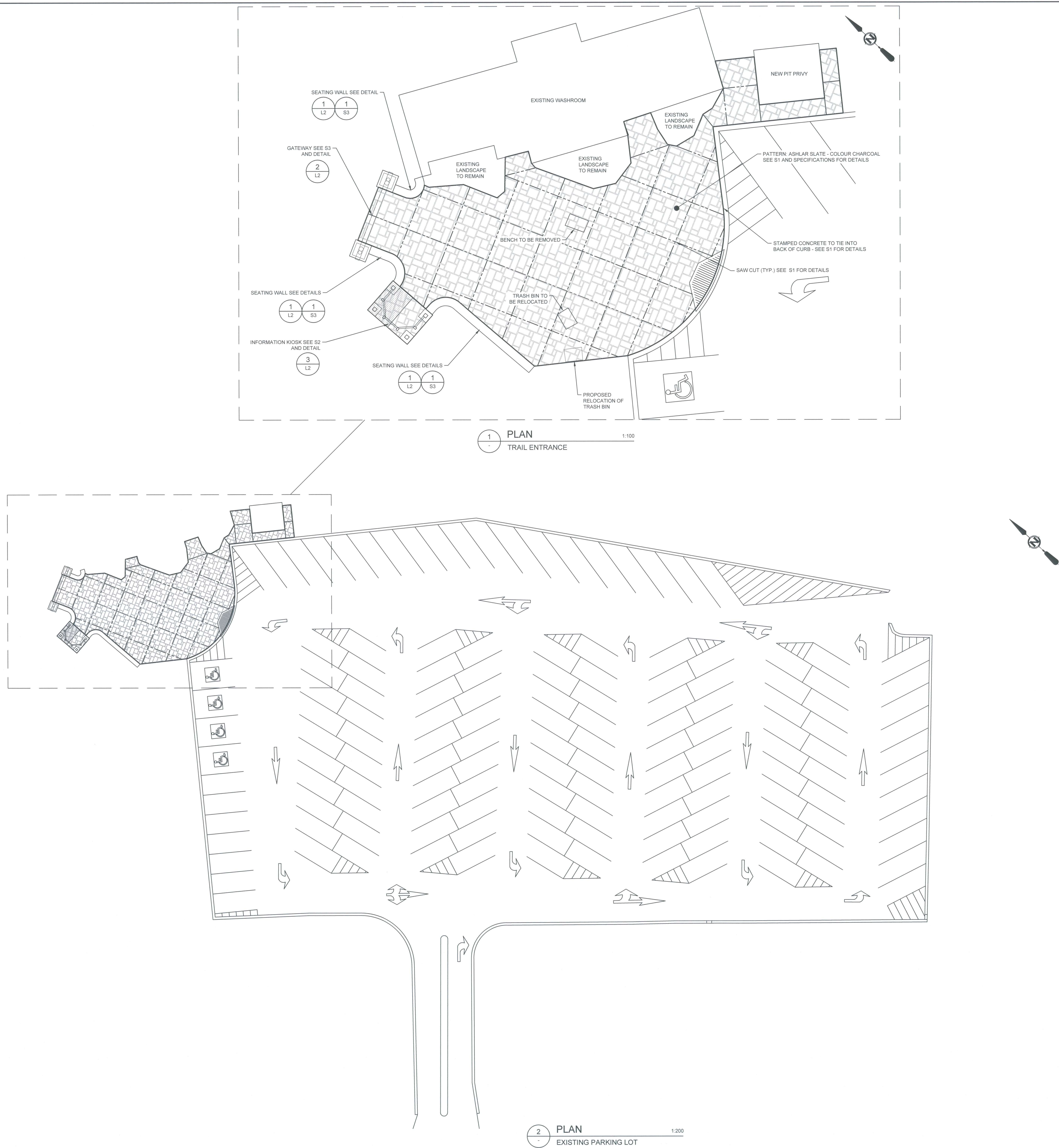
Drawing title/Titre du dessin


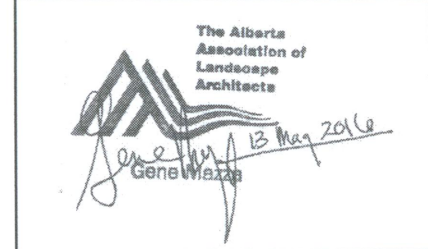

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
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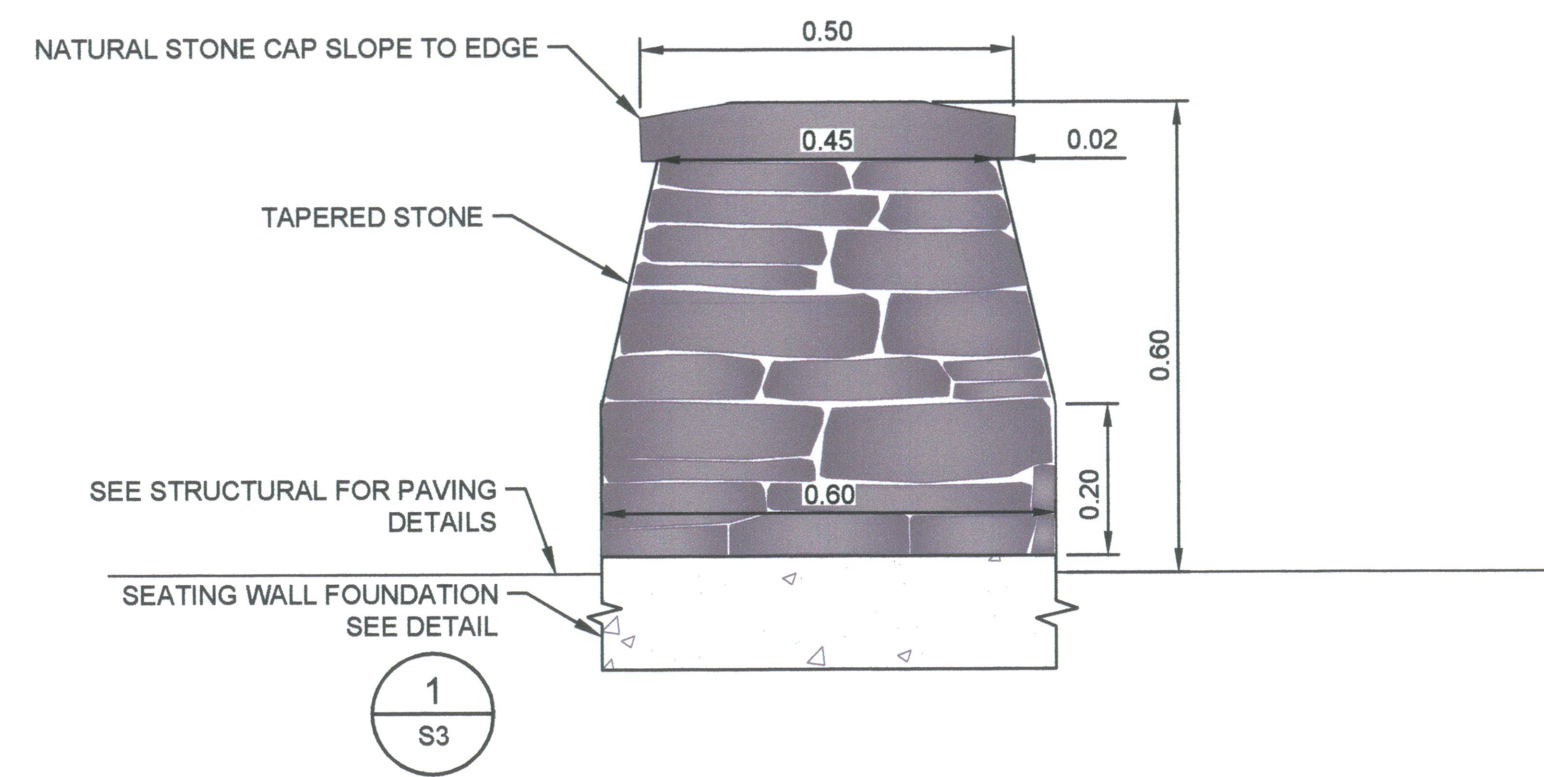
PWGSC Project Manager/Administrateur de Projets TPSGC

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Drawing Reference No./No. de référence du dessin	6
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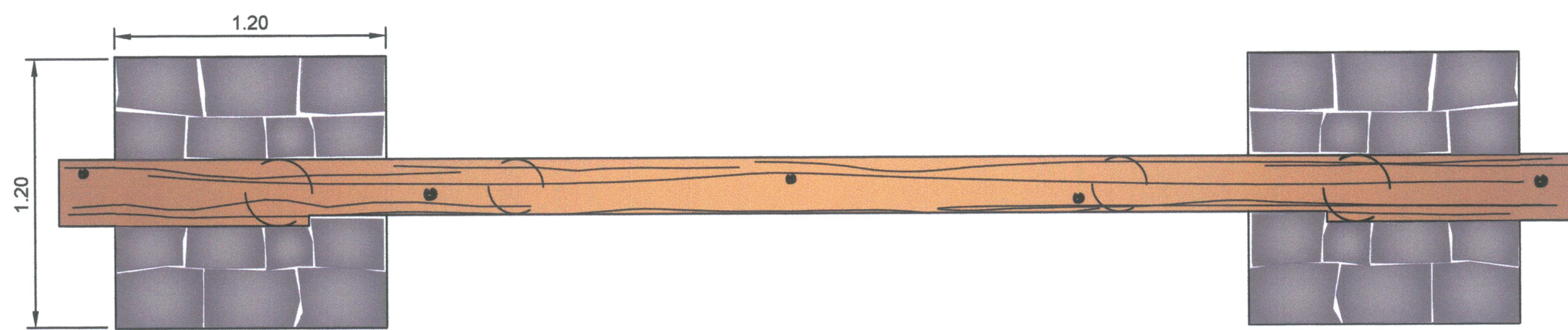


0	2016MAY13	ISSUED FOR TENDER	G.M.	J.C.			
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé			
Revision / Révision							
<div><div>A</div><div>C</div></div> <div>A detail number numéro de détail B source drawing no. de dessin no. C detail on drawing no. détail sur dessin no.</div>			<div><div>A</div><div>B</div><div>C</div></div>				
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur				
<div><div>Associated Engineering</div></div>			<div></div>				
Client/client							
<div> Parks Canada Agence</div>		L'Agence Parcs Canada					
Western and Northern Region		Ouest et Nord du Canada					
Project title/Titre du projet							
JOHNSTON CANYON PARKING LOT UPGRADE							
BANFF NATIONAL PARK							
Drawing title/Titre du dessin							
EXISTING PARKING LOT LANDSCAPE PLAN							
Surveyed by/Arpenté par		Drawn by/Dessiné par		Date/Date			
		G. MAZZA		2015OCT07			
Designed by/Concept par		Reviewed by/Revisé par		Scale/Echelle			
G. MAZZA		J. BENNETT		AS SHOWN			
PWSC Project Manager/Administrateur de Projets TPSC							
Client Acceptance/Acceptation du client							
Approved by/Approuvé par							
Park Responsible Officer/Agent Responsable				PWSC Project Manager/Administrateur de Projets TPSC			
Project No./No. du projet		Asset No./No. du bien		Sheet No./ No. de la feuille			
20153475				7			
Drawing Reference No./No. de référence du dessin				15			
L1							

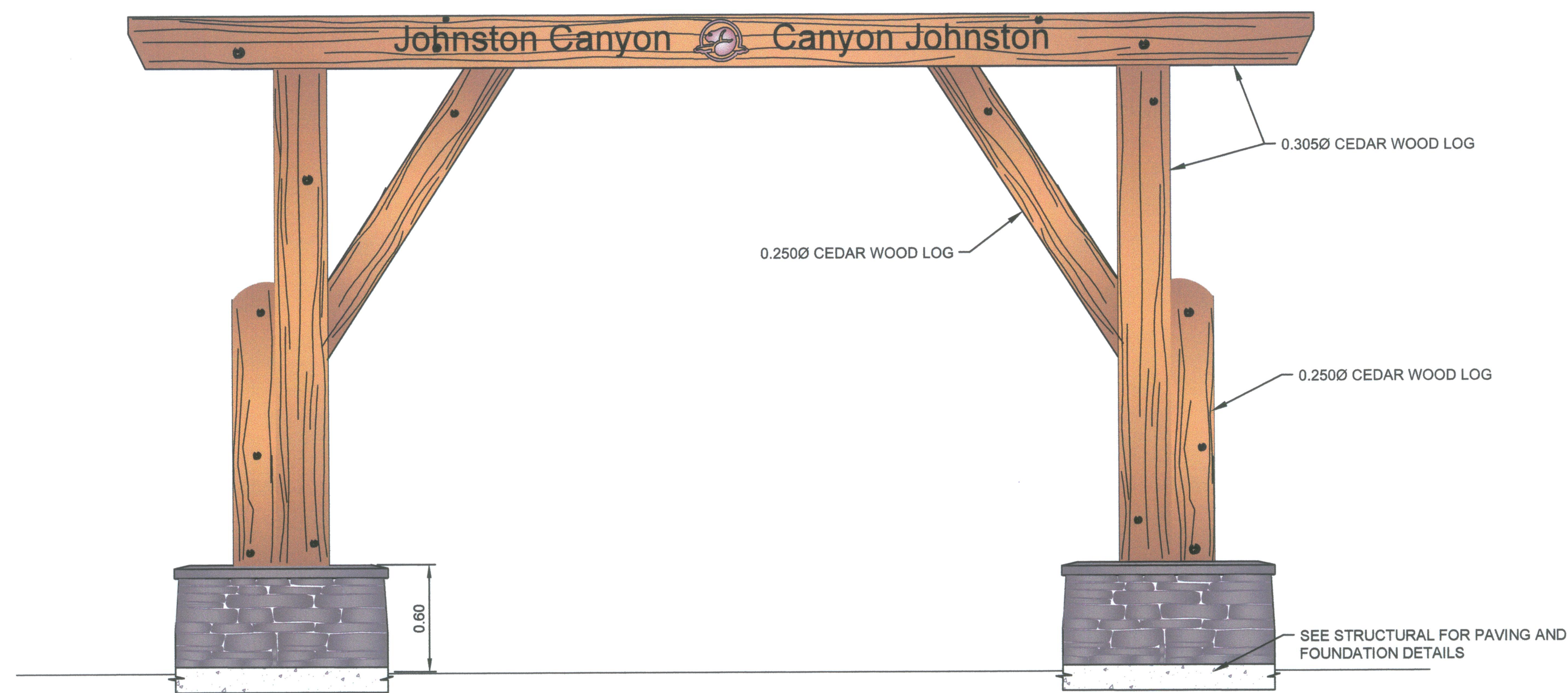


NOTES:
1. STONE SHALL BE ROUNDE
2. LEDGE STONE DETAILS TO MATCH
EXISTING BUILDING STONE WORK.

1
L1
DETAIL
SEATING WALL
1:10



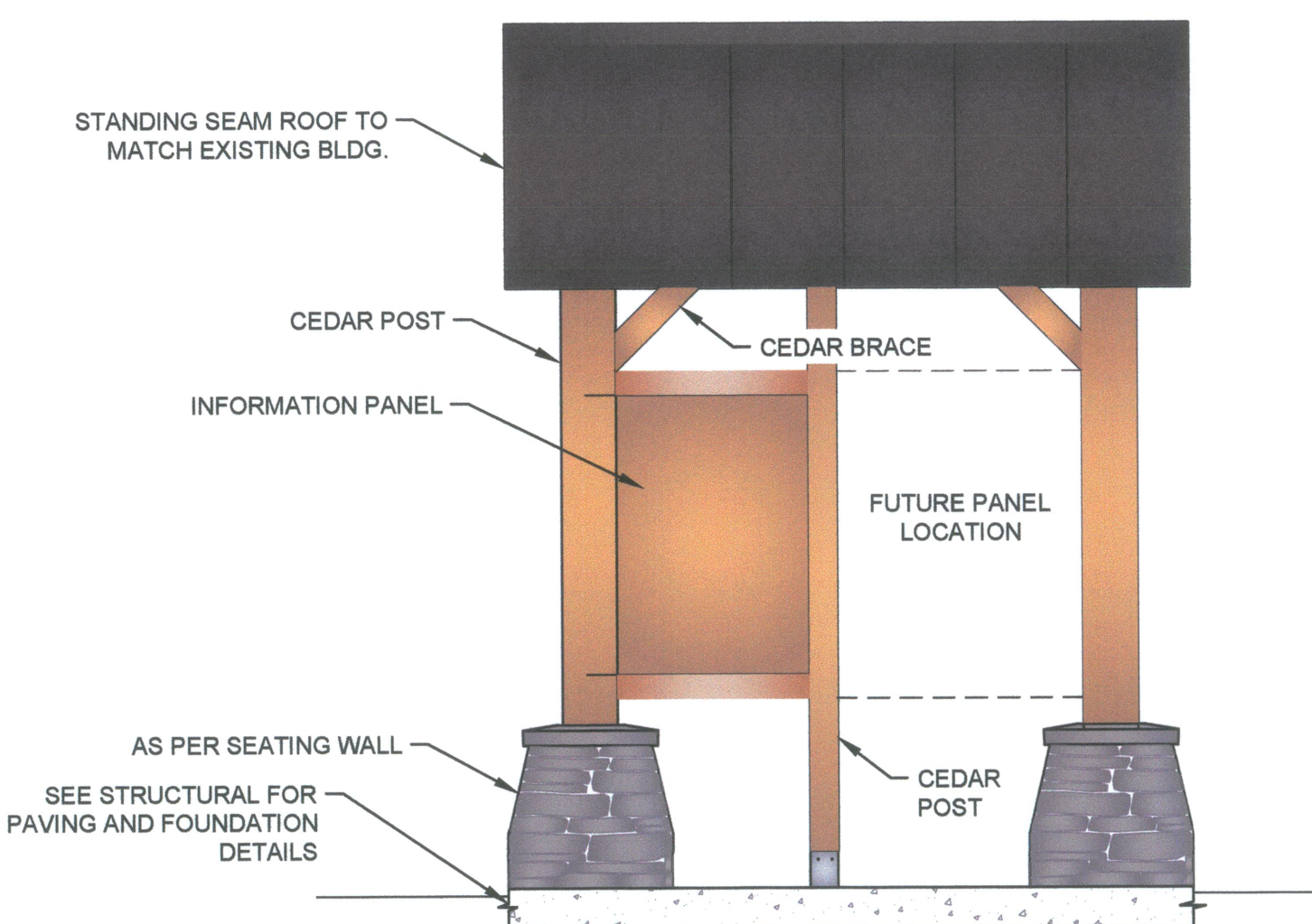
PLAN VIEW



FRONT ELEVATION

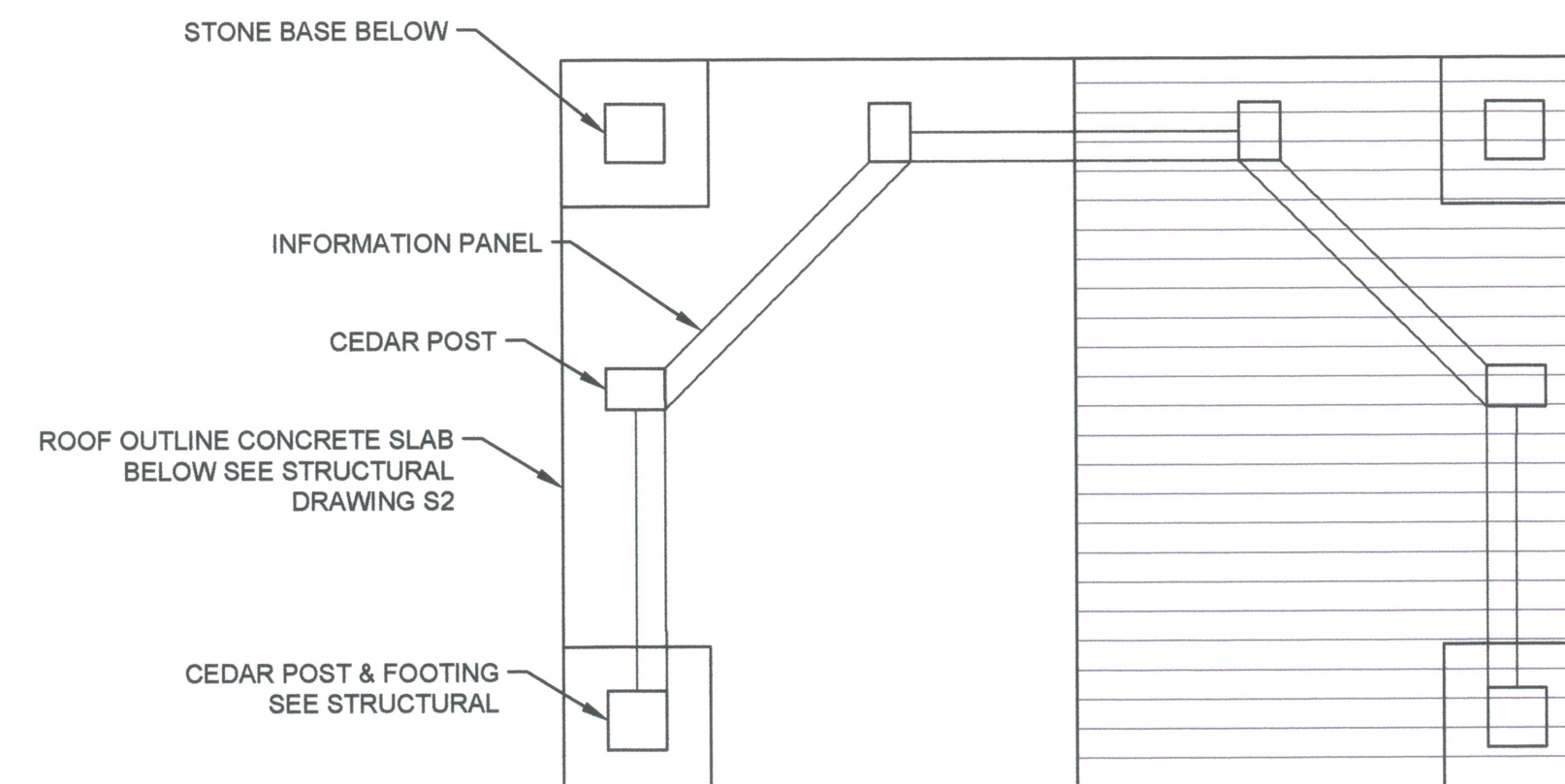
2
L1
ELEVATION
GATEWAY PLAN AND ELEVATION
1:25

NOTES:
1. STONE BASE TO MATCH SEATING WALL DETAIL.
2. CEDAR LOGS TO HAVE MINIMUM TAPER WITH SMOOTH BARKED SURFACE.
3. LIGHT HONEY COLOURED STAIN FOR ALL TIMBERS
4. ENTRANCE LETTERING TO BE HELVETICA NEUE 75 BOLD, SET AS UPPER AND LOWER CASE TEXT, 150MM IN HEIGHT BRANDED ONTO LOG.
5. LOGO TO BE PROVIDED BY PARKS CANADA AND BRANDED ONTO LOG.

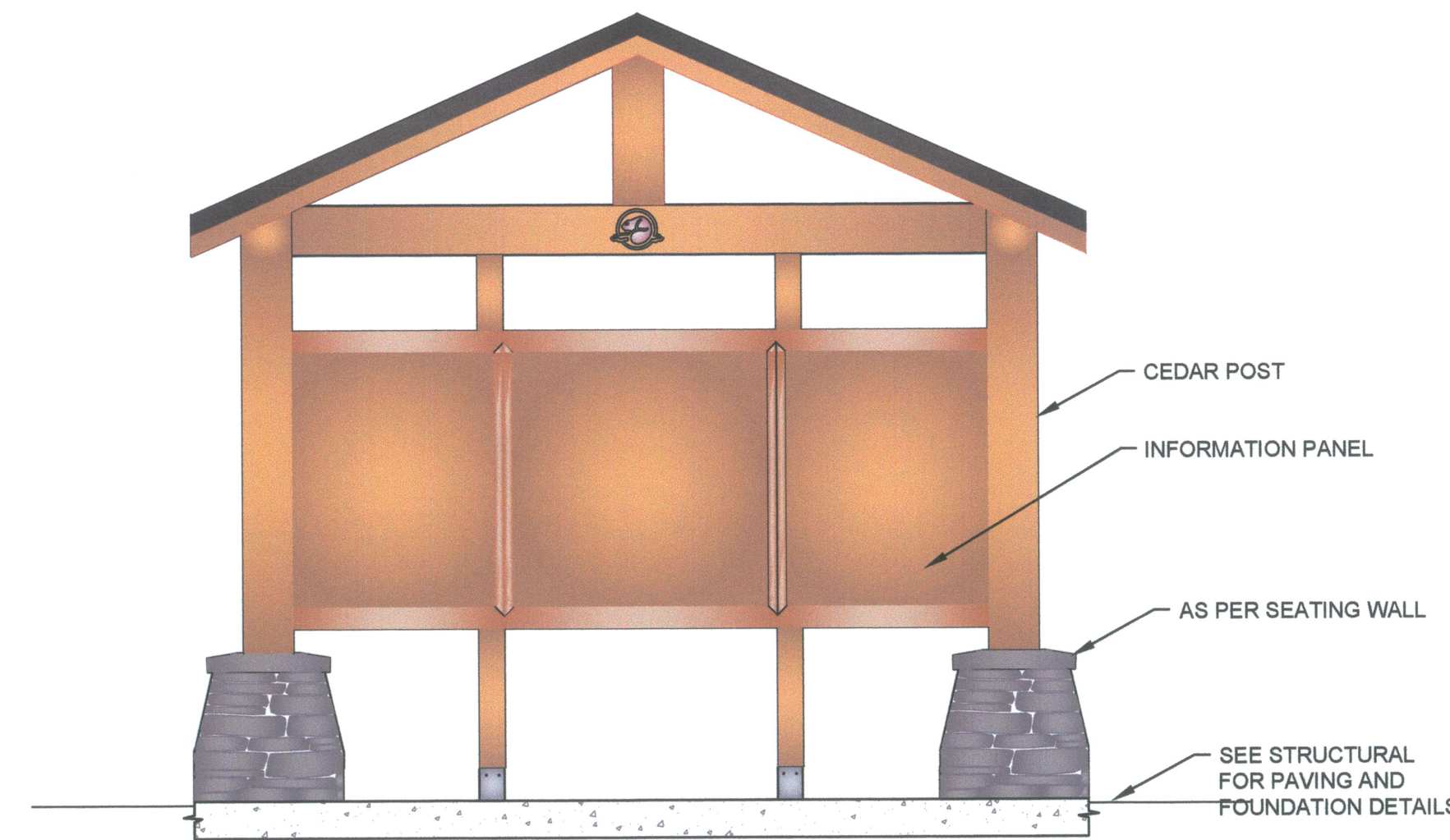


SIDE ELEVATION

3
L1
DETAIL
INFORMATION KIOSK PLAN AND ELEVATION
1:25



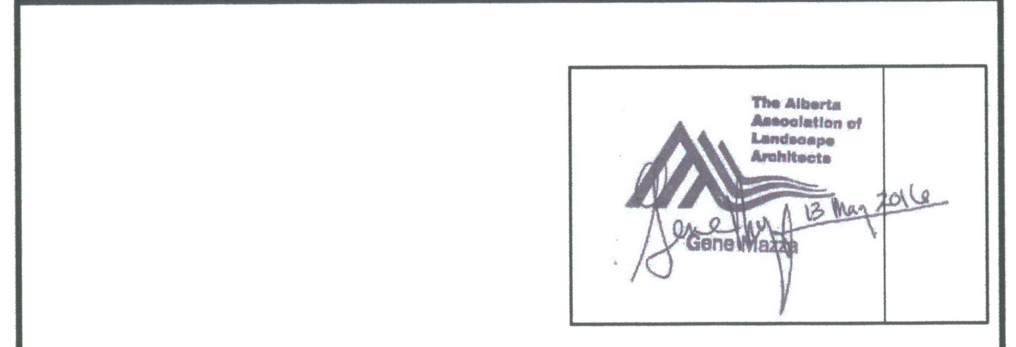
PLAN VIEW



FRONT ELEVATION

0	2018MAY13	ISSUED FOR TENDER	G.M.	J.C.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision	
A C	A B C
Consultant's Name Nom de l'expert-conseil	
Eng. Stamp Sceau de l'ingénieur	
Associated Engineering	



Client/client	Parks Canada Agence	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

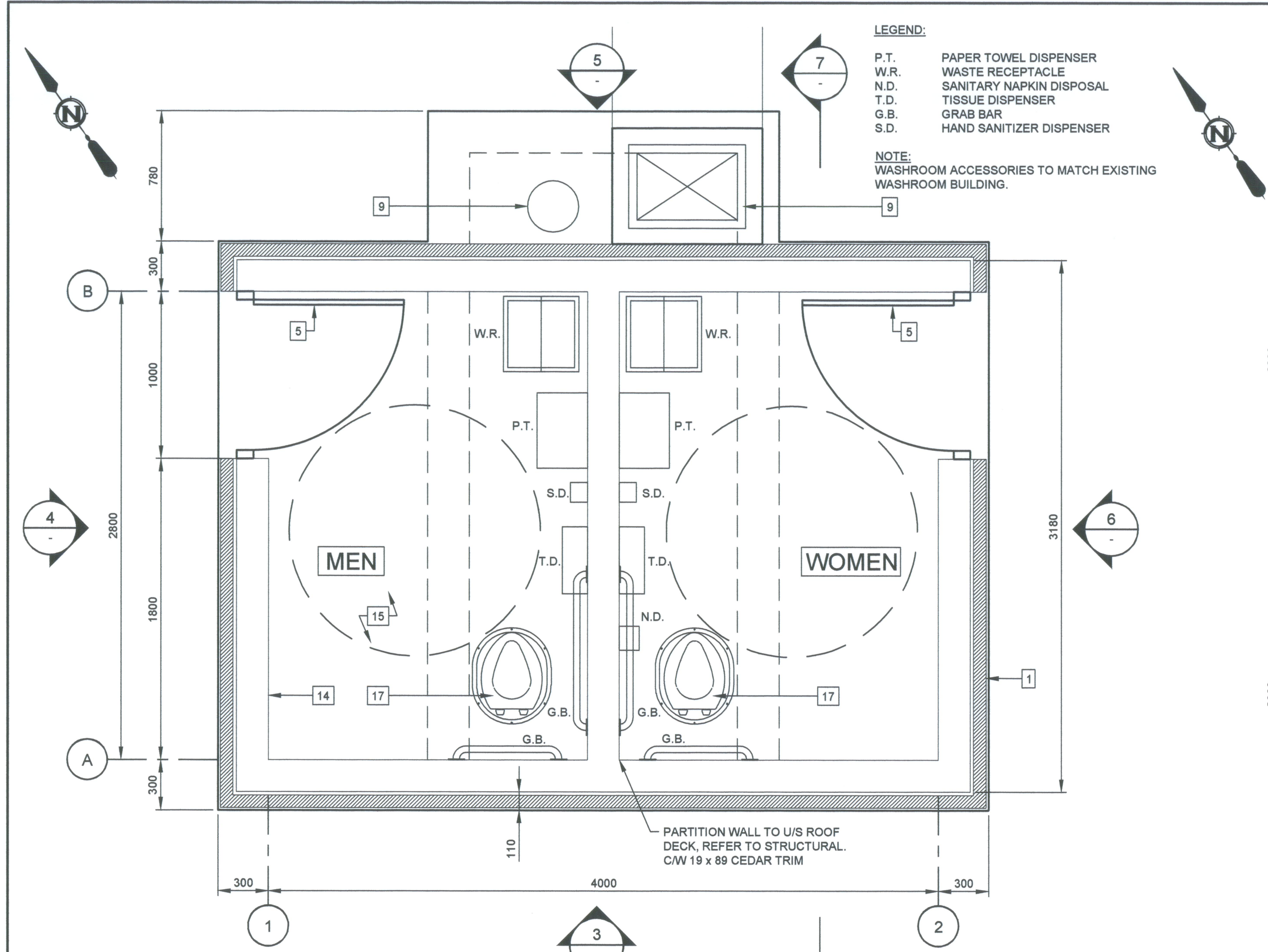
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Drawing title/Titre du dessin	LANDSCAPE DETAILS GATEWAY AND KIOSK
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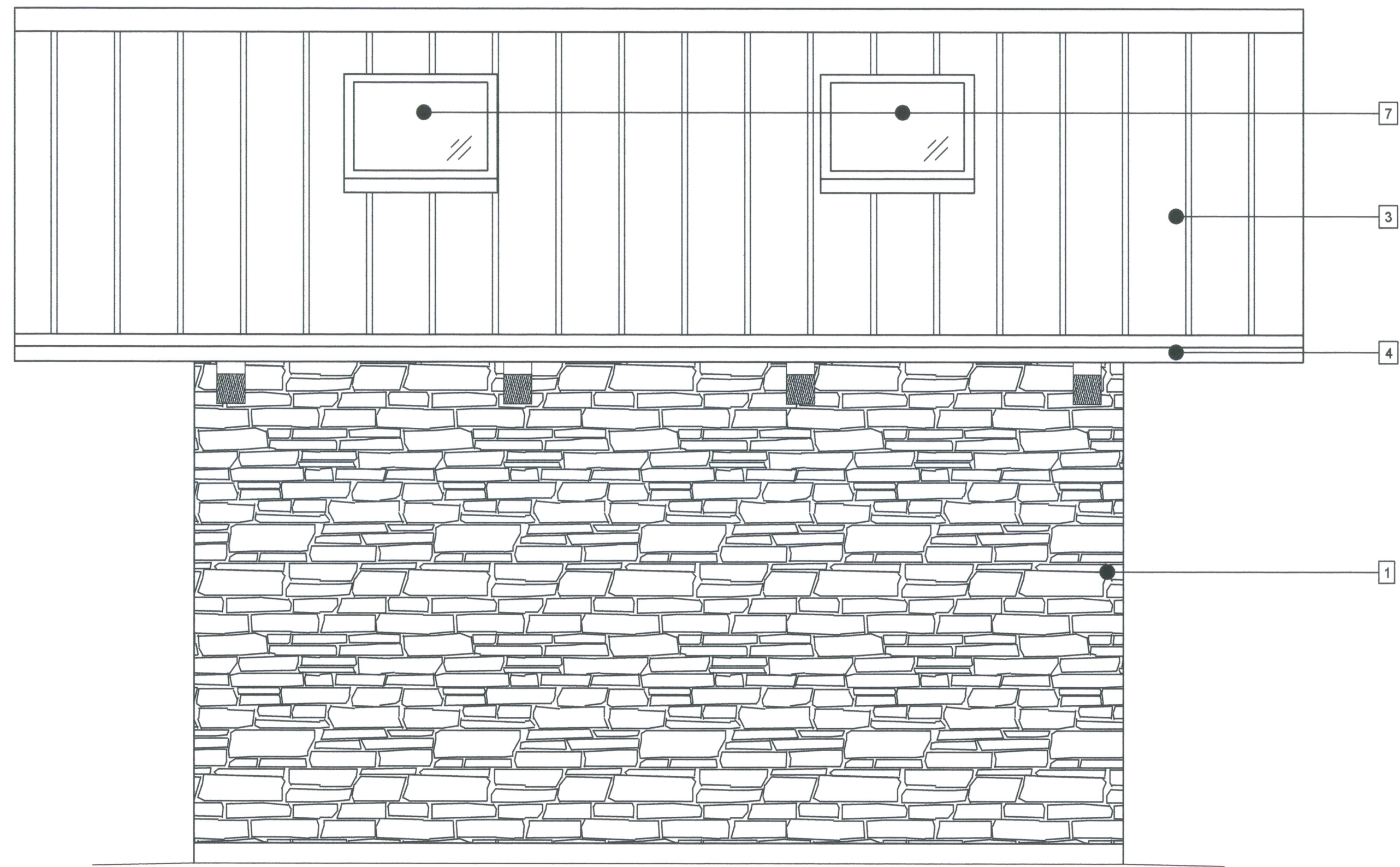
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G. MAZZA	G. MAZZA	2015NOV05
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
G. MAZZA	J. BENNETT	AS SHOWN

PWOSC Project Manager/Administrateur de Projets TPSCC	
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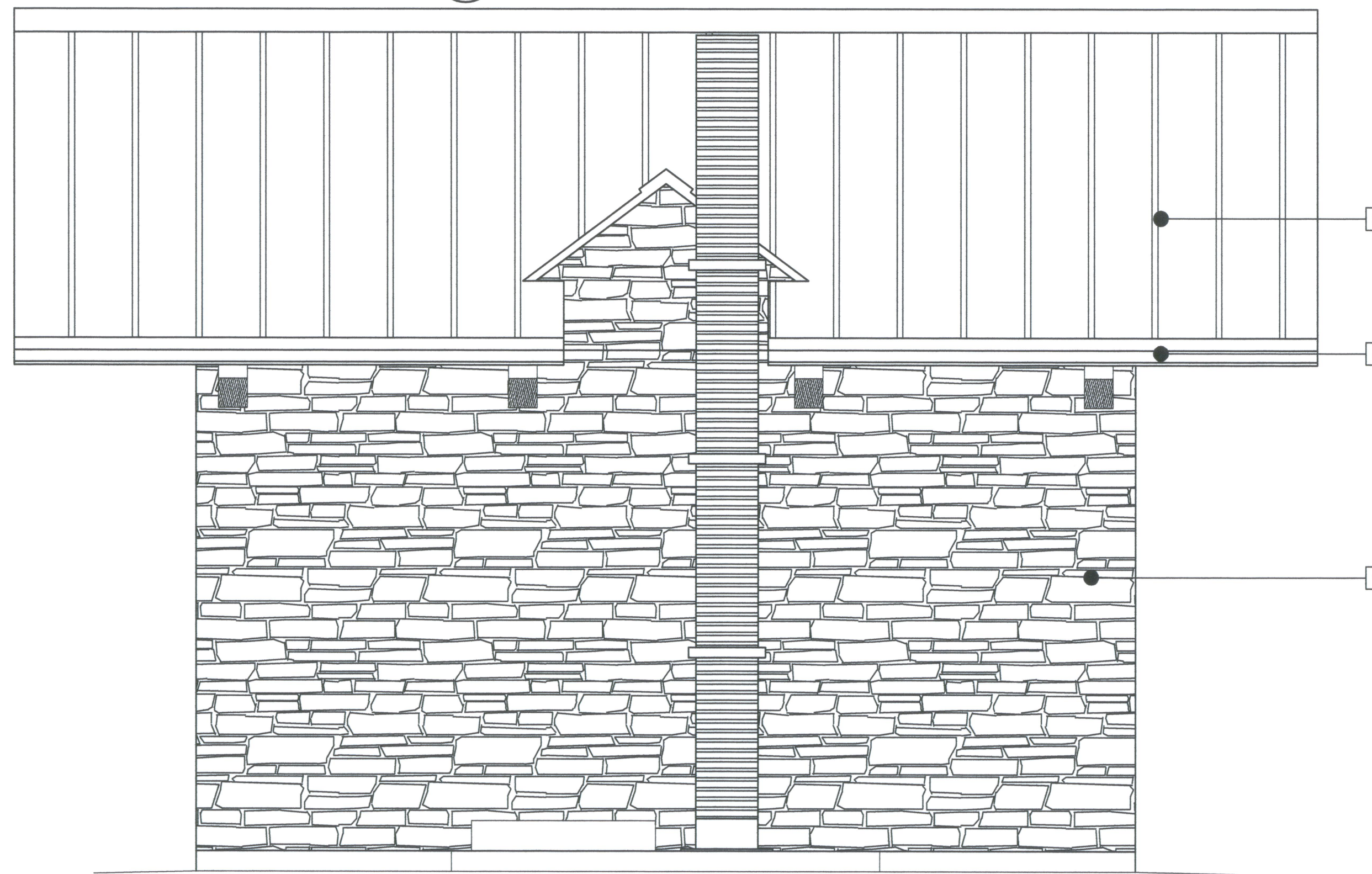
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille 8 15	
20153475			
Drawing Reference No./No. de référence du dessin L2			



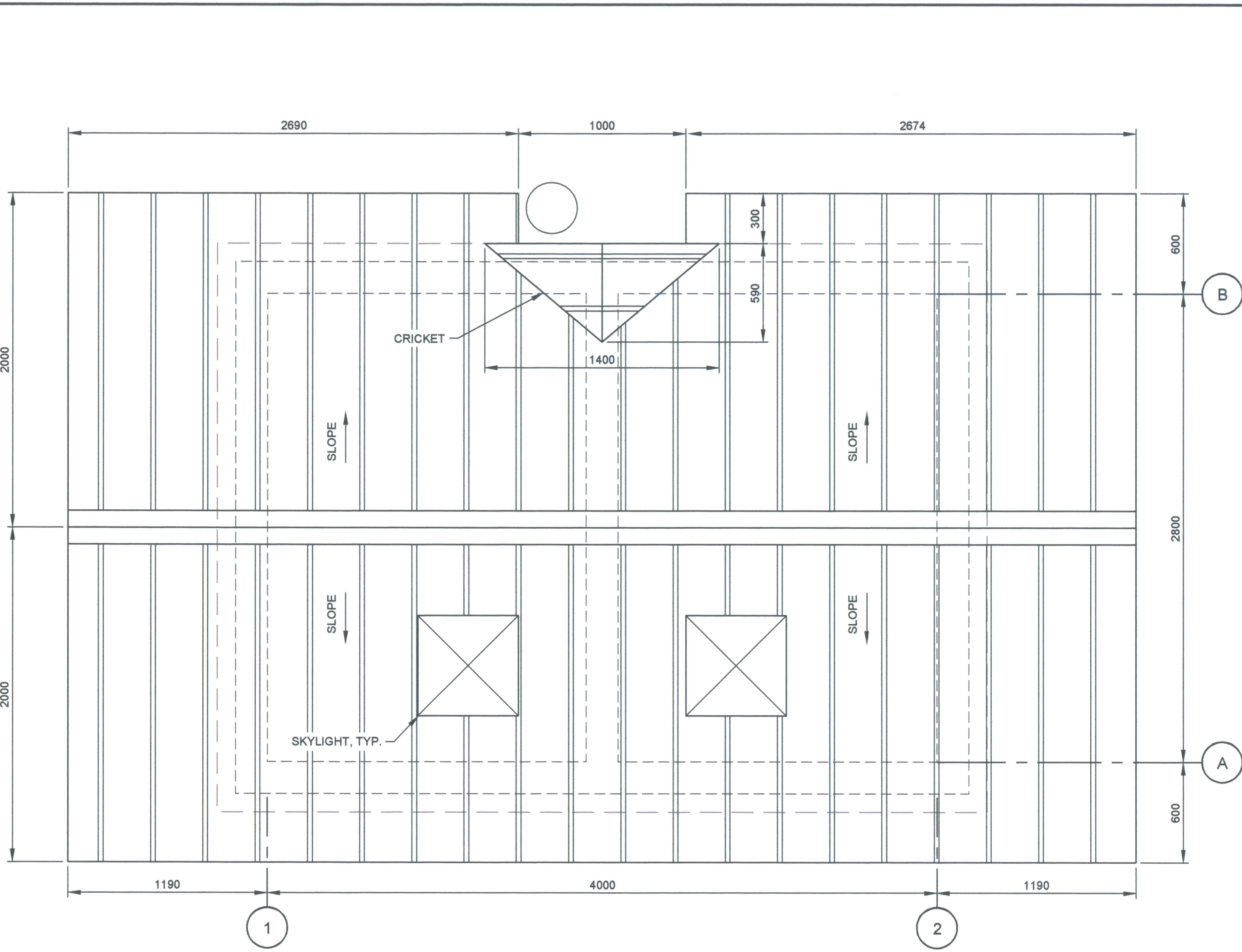
1 PLAN
FLOOR



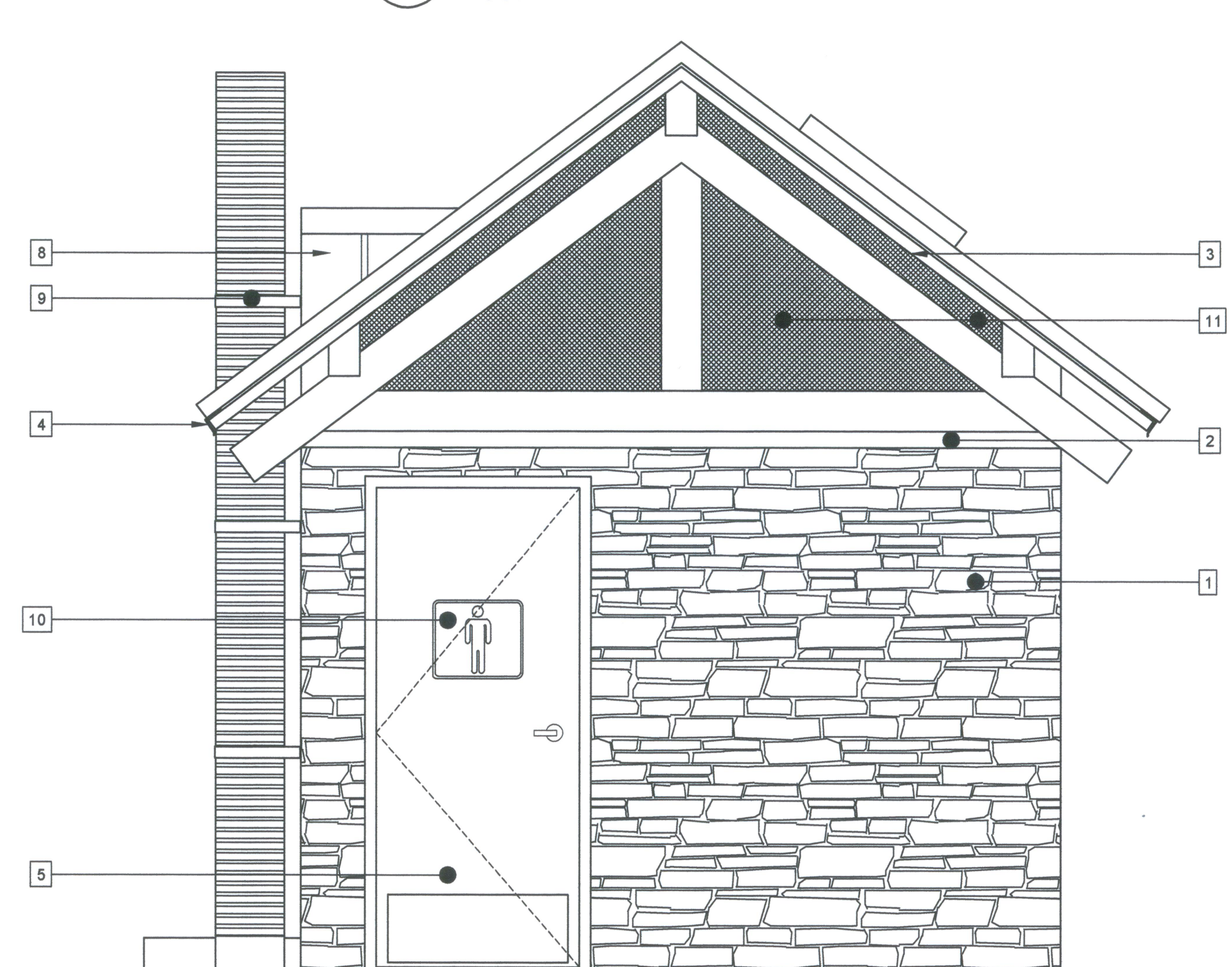
3 ELEVATION
SOUTH



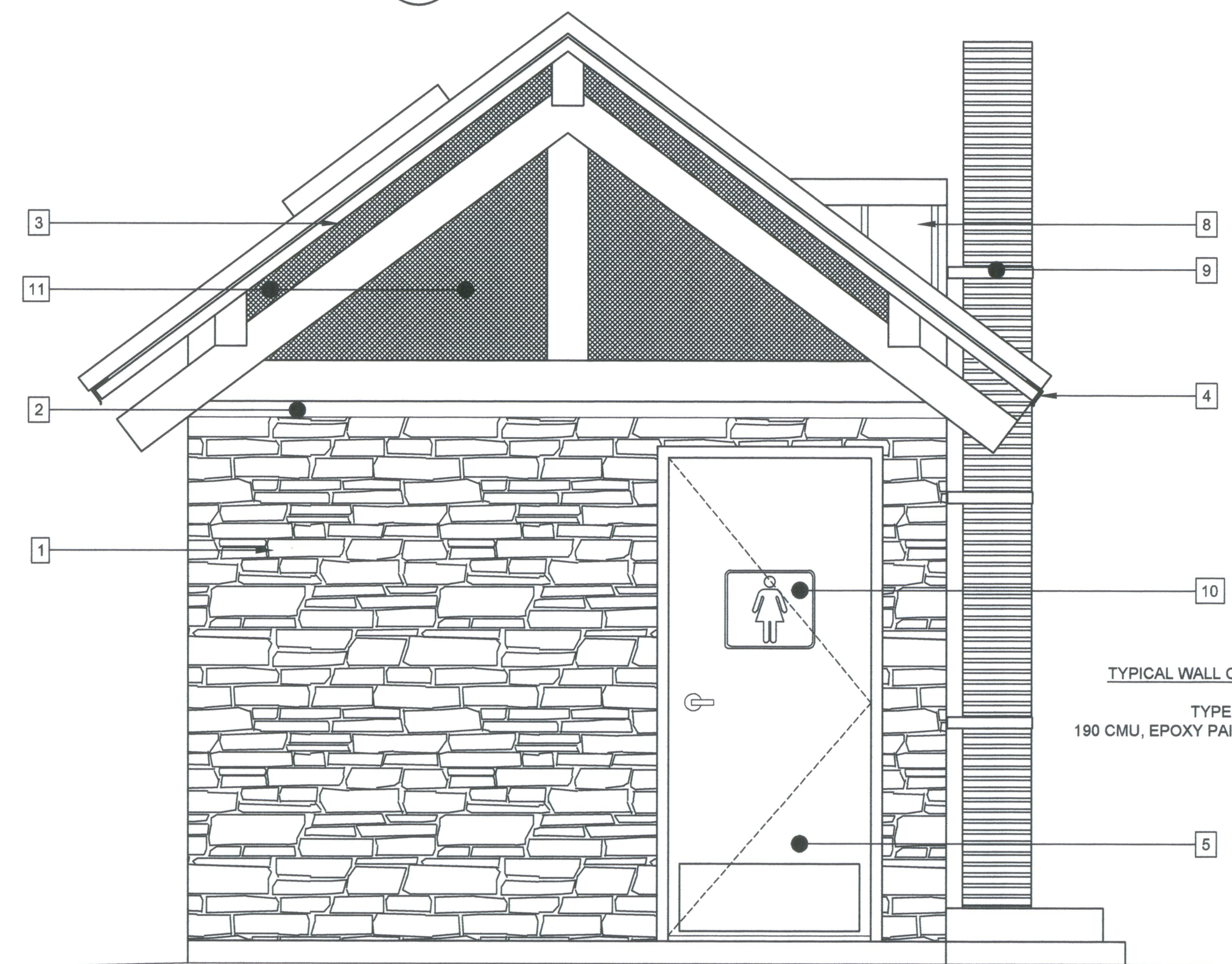
5 ELEVATION
NORTH



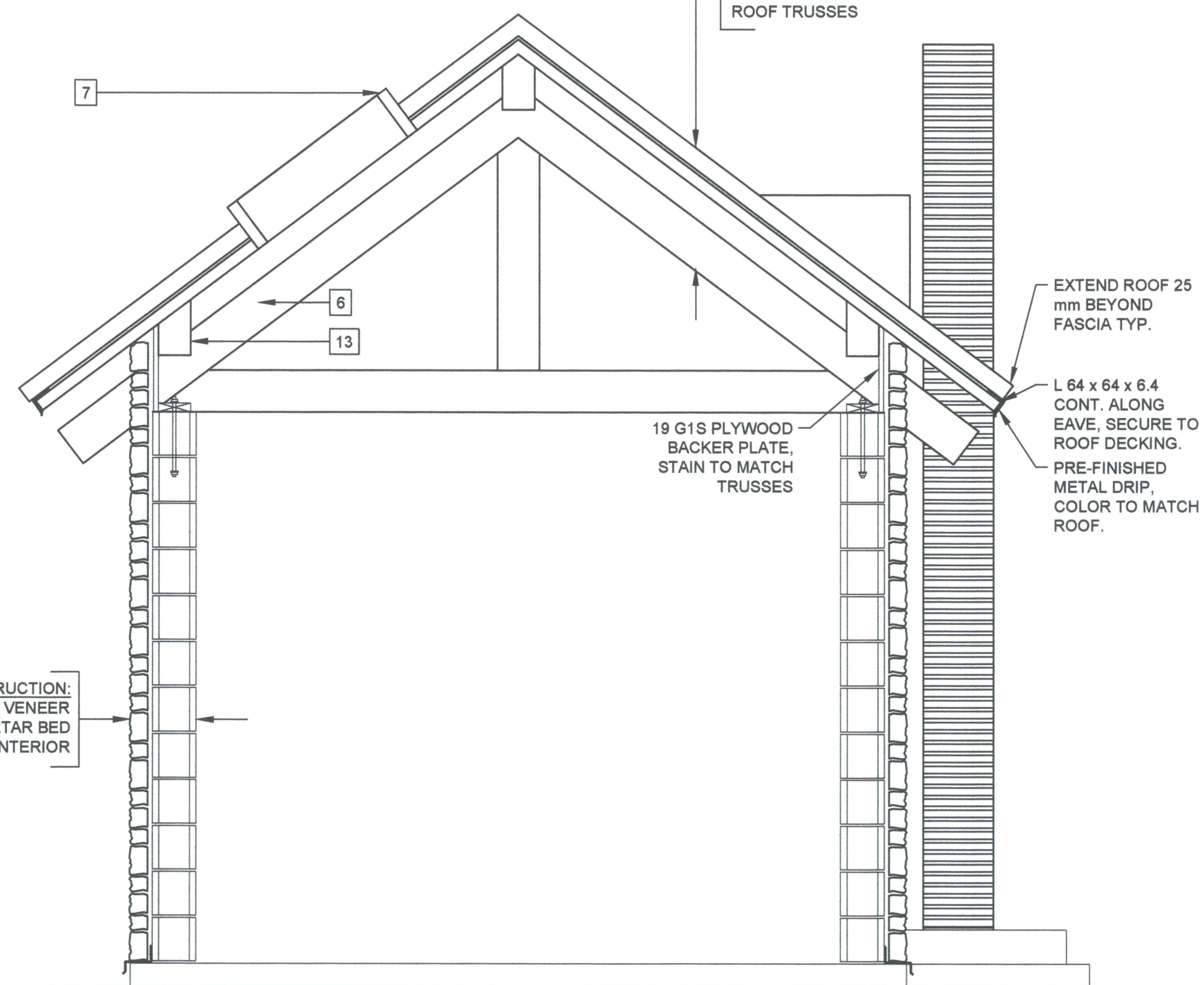
3 PLAN
ROOF



4 ELEVATION
WEST




6 ELEVATION
EAST



7 SECTION
BUILDING

- NOTES:
- EXTERIOR
- NATURAL STONE - RUNDAL LEDGE - STONE (COLOUR & SIZE TO MATCH EXISTING WASHROOM BUILDING). STONE TO BE FREEZE/HAW STABLE. REFERENCES: CANCSAA179 MORTAR & GROUT FOR UNIT MASONRY. CANCSAA371 MASONRY CONSTRUCTION FOR BUILDINGS.
 - NATURAL STONE CAP - RUNDAL LEDGE - STONE (COLOUR & SIZE TO MATCH EXISTING WASHROOM BUILDING)
 - PRE-FINISHED METAL STANDING SEAM ROOF VENTILATION MAXIMUM: VV-6062 DARK BROWN.
 - PRE-FINISHED METAL FLASHING W/ DRIP EDGE COLOUR TO MATCH PRE-FINISHED STANDING SEAM ROOF
 - HOLLOW METAL DOOR & FRAME, FULLY WELDED, PAINTED SHERWIN WILLIAMS: SW7515 CHATEAU BROWN COMPLETE WITH COMMERCIAL GRADE HARDWARE INCLUDING:
 - ADA COMPLIANT LEVER TYPE LOCKSET WITH PRIVACY FUNCTION, C320 FINISH (KEYING TO MATCH EXISTING WASHROOM BUILDING)
 - HEAVY DUTY HINGES, C320 FINISH
 - STRIKE PLATE, C320 FINISH
 - BRUSHED STAINLESS STEEL KICKPLATE (BOTH SIDES)
 - WOOD TRUSSES, SHEATHING: STAINED, CLEARCOAT TO MATCH VISITOR KIOSK. ALL EXPOSED WOOD INCLUDING TIMBER TRUSSES, TIMBER BEAMS, TIMBER DECKING AND TRIM SHALL BE WESTERN RED CEDAR.
 - SKYLIGHT, COMPLETE WITH PRE-MANUFACTURED ROOF CRICKET. TYPE: FIXED LIGHT GLAZING: TEMPERED GLASS SIZE: 700 x 700
 - ROOF CRICKET
 - PVC VENT PIPE: Q305, SECURE TO BUILDING WITH PREFINISHED METAL STRAPS EVENLY SPACED (MAXIMUM 1000 SPACING), COLOR TO MATCH ROOF.
 - SIGNAGE TO MATCH EXISTING WASHROOM BUILDING
 - INSECT SCREEN: (PLAIN WEAVE) CHARCOAL / BLACK COLORED ALUMINUM MESH, HEAVY DUTY 25 mm WIRE DIA. SECURE MESH IN PLACE WITH 19 x 19 CEDAR TRIM BLOCKING, BOTH SIDES MESH ALL AROUND OPENING TYP.
 - ACCESS HATCH: 600x400 TYPE 4 ALUMINUM BILCO HATCHES, LOCKABLE (PAD LOCK BY OWNER). ROUGH OPENINGS TO BE COORDINATED WITH HATCH DETAILS.
 - 140 x 241 BEAM, REFER TO STRUCTURAL.
- INTERIOR
- WALLS - EPOXY PAINT FINISH (TYPICAL ALL INTERIOR WALLS) SHERWIN WILLIAMS: SW 6148 WOOL SKEIN
 - FLOOR - CONCRETE, TROWEL FINISH, COMPLETE WITH CLEAR SEALER.
 - CEILINGS - EXPOSED TIMBER STRUCTURE, FINISH WITH CLEARCOAT TO MATCH VISITOR KIOSK.
 - STAINLESS STEEL PIT TOILET FIXTURE, ADA COMPLIANT, COMPLETE WITH SEAT & LID. COORDINATE FLOOR OPENING SIZE AND LOCATION WITH STRUCTURAL.

0	2016MAY13	ISSUED FOR TENDER	B.P.	J.C.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A detail number / numero de detail				
B source drawing no. / de dessin no.				
C detail on drawing no. / detail sur dessin no.				
Consultant's Name / Nom de l'expert-conseil			Eng. Stamp / Sceau de l'ingénieur	
			Associated Engineering	
APEGA Permit to Practice P 3979				

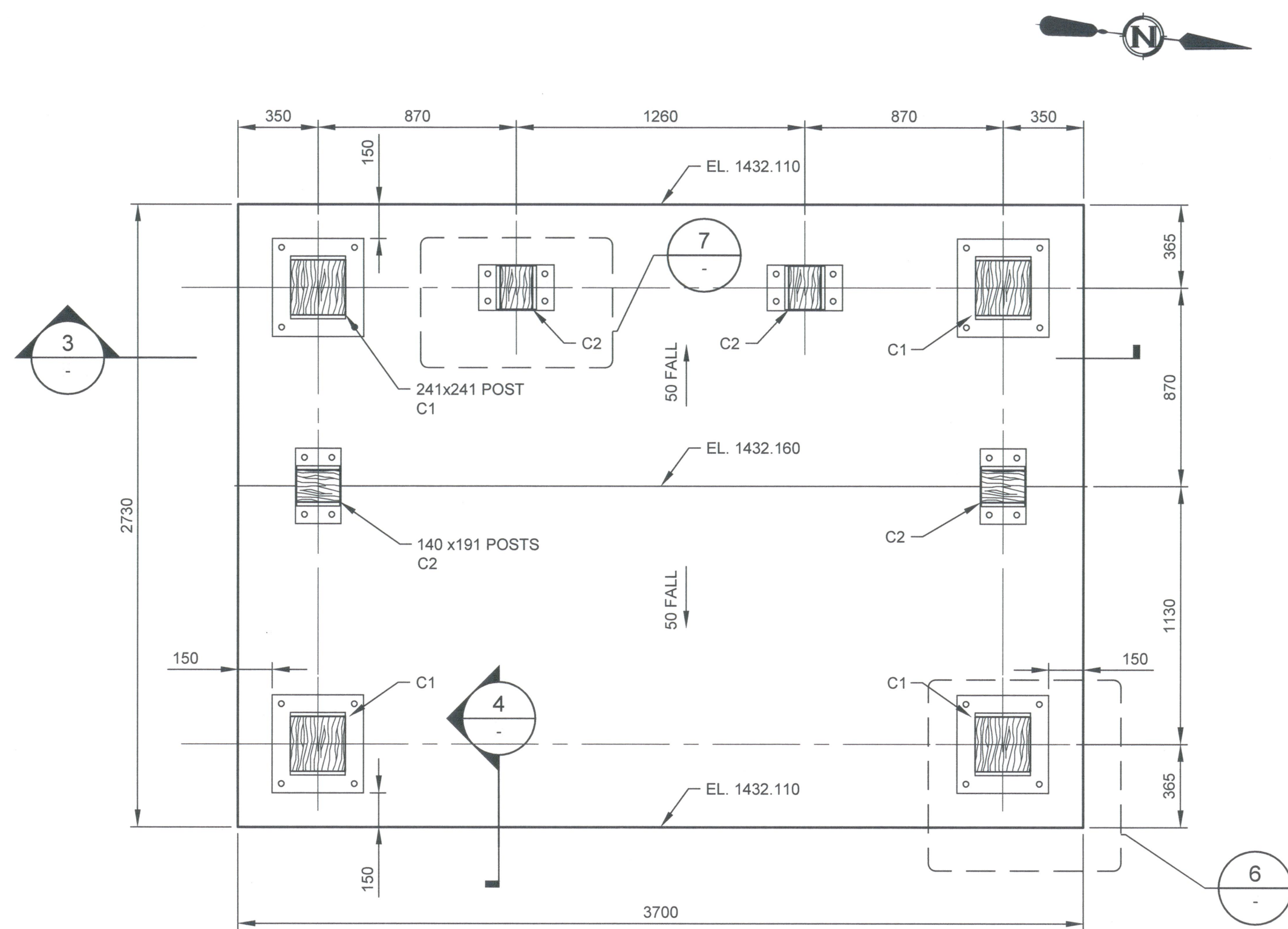
Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
JOHNSTON CANYON PARKING LOT UPGRADE
BANFF NATIONAL PARK

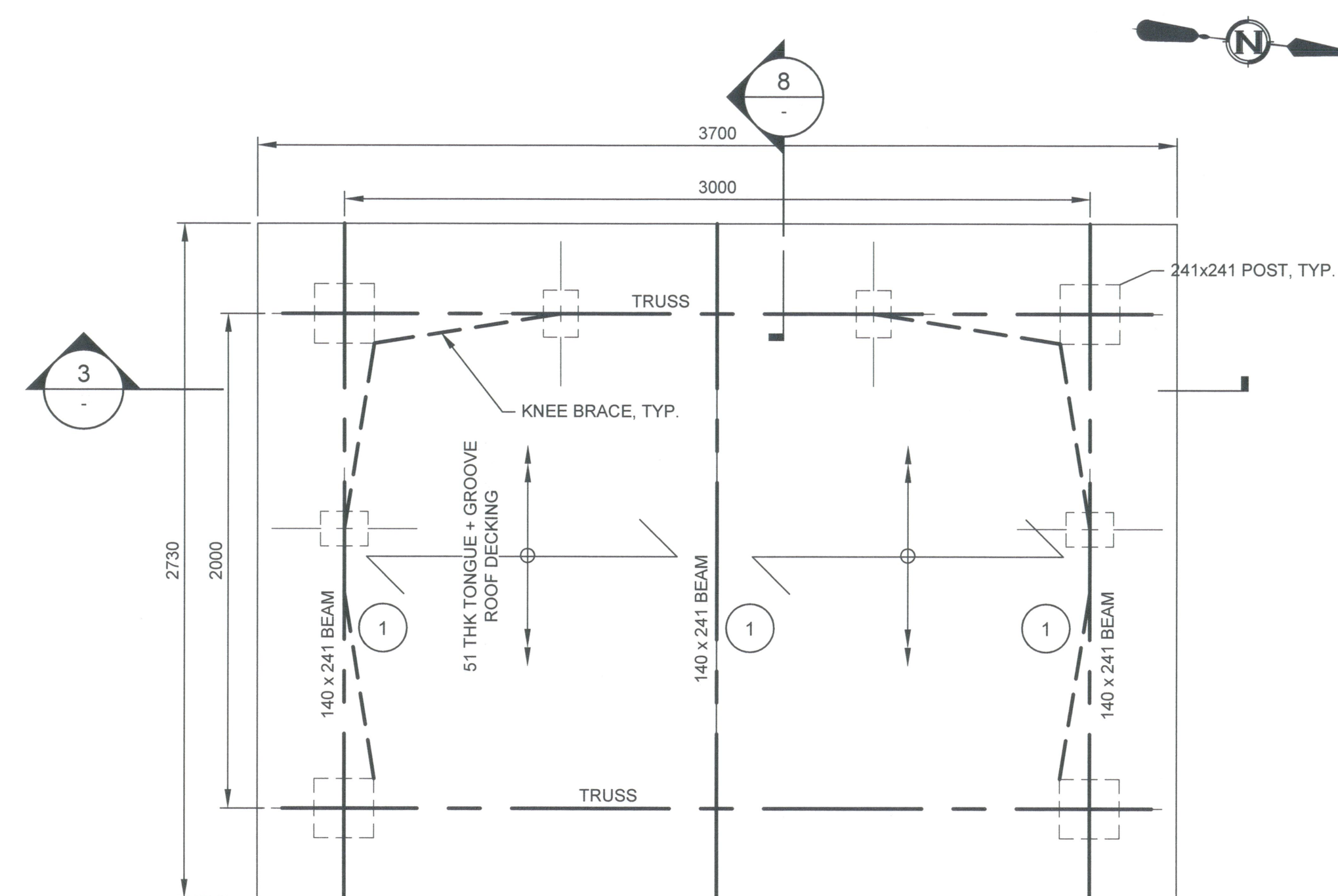
Drawing title/Titre du dessin
PIT PRIVY PLANS & ELEVATIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
J. COPE	B. PRZEW	2016MAY12
Designed by/Conçu par	Reviewed by/Revisé par	Scale/Echelle
	M. PORTER	AS SHOWN
PWSC Project Manager/Administrateur de Projets TPSCC		

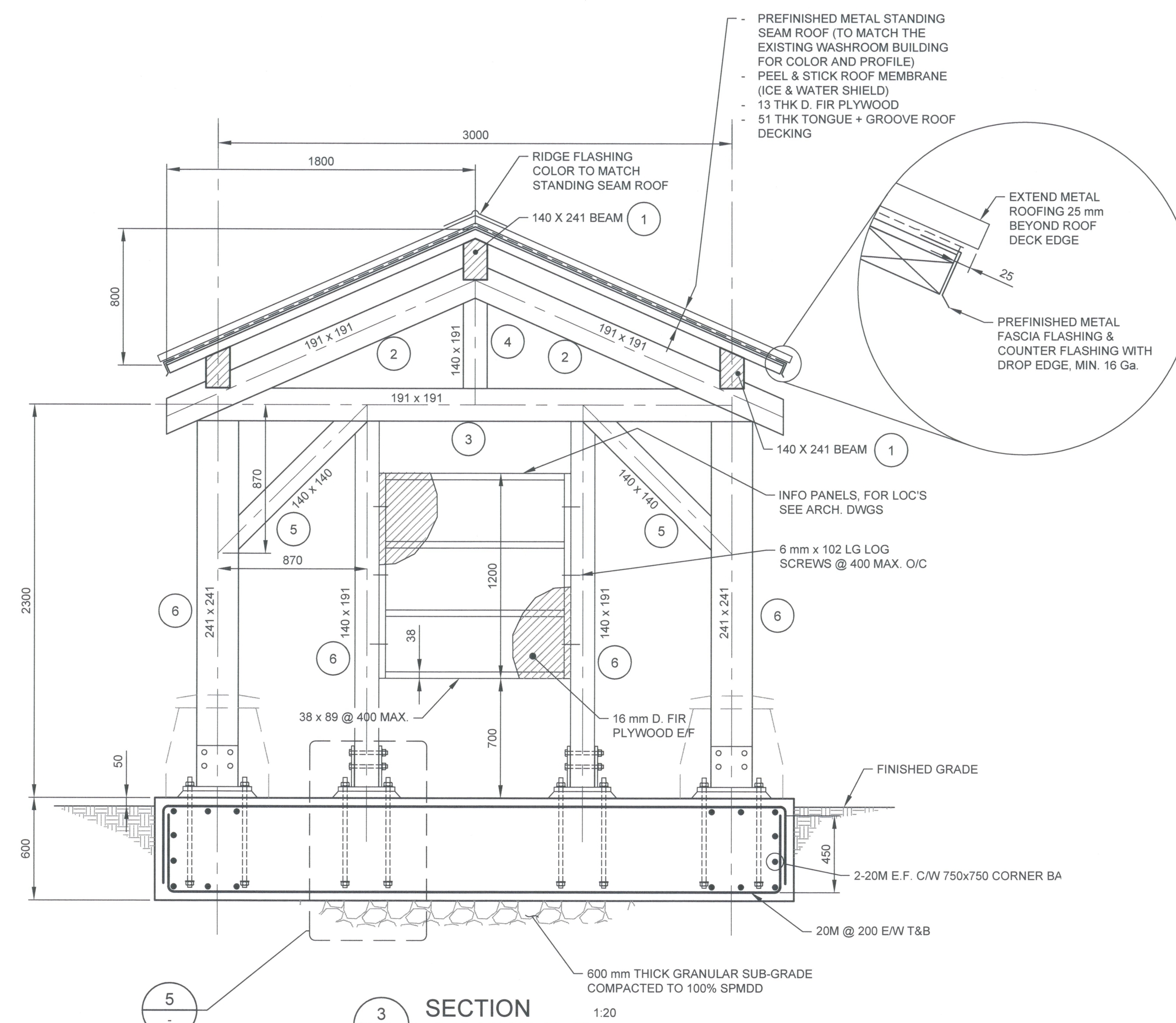
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Office/Agenc Responsable		PWSC Project Manager/Administrateur de Projets TPSCC	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille	
20153475		9	
Drawing Reference No./No. de référence du dessin		A1	
		15	



1 PLAN
S1 FOUNDATION 1:20



2 PLAN
ROOF 1:20

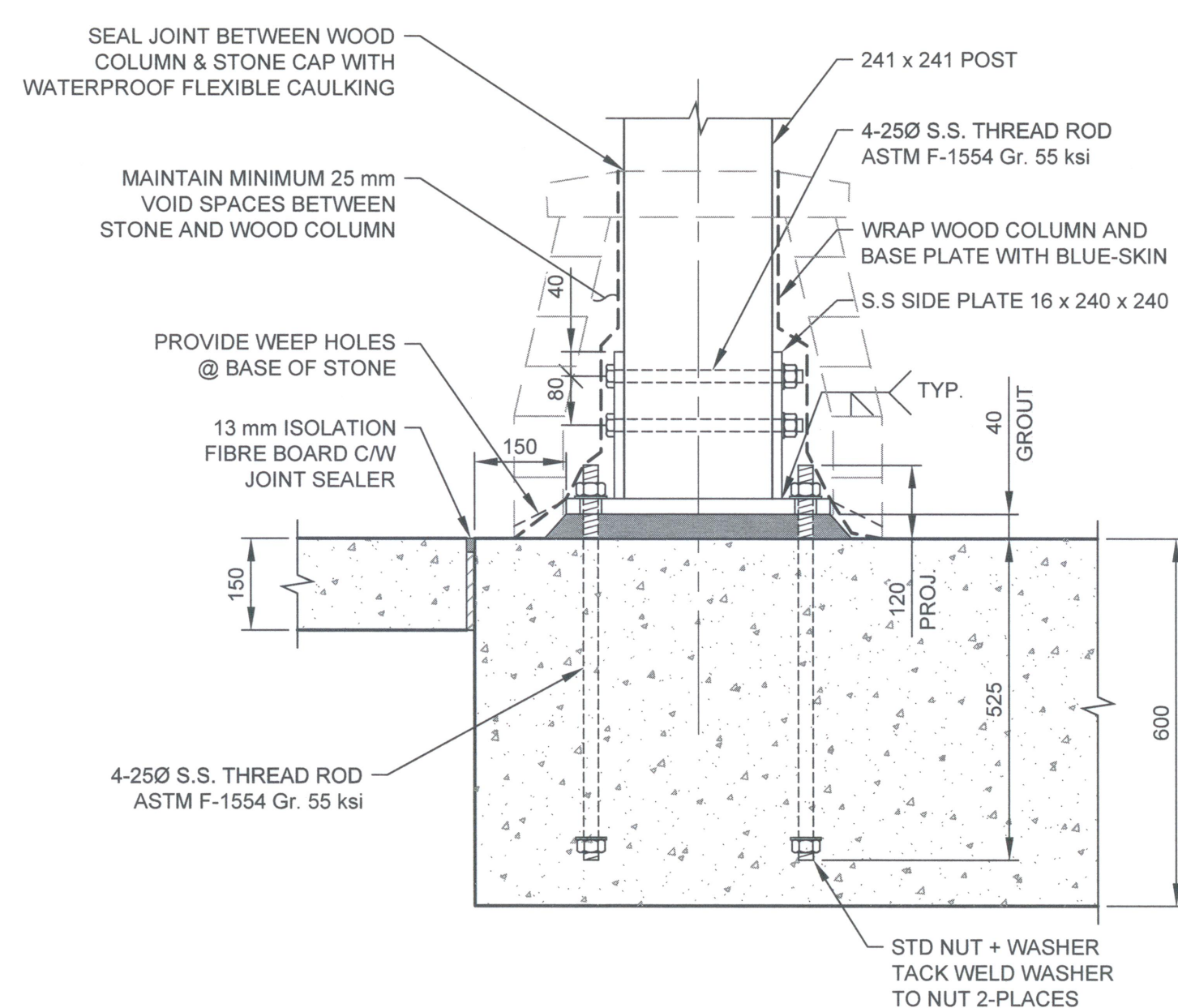


3 SECTION 1:20

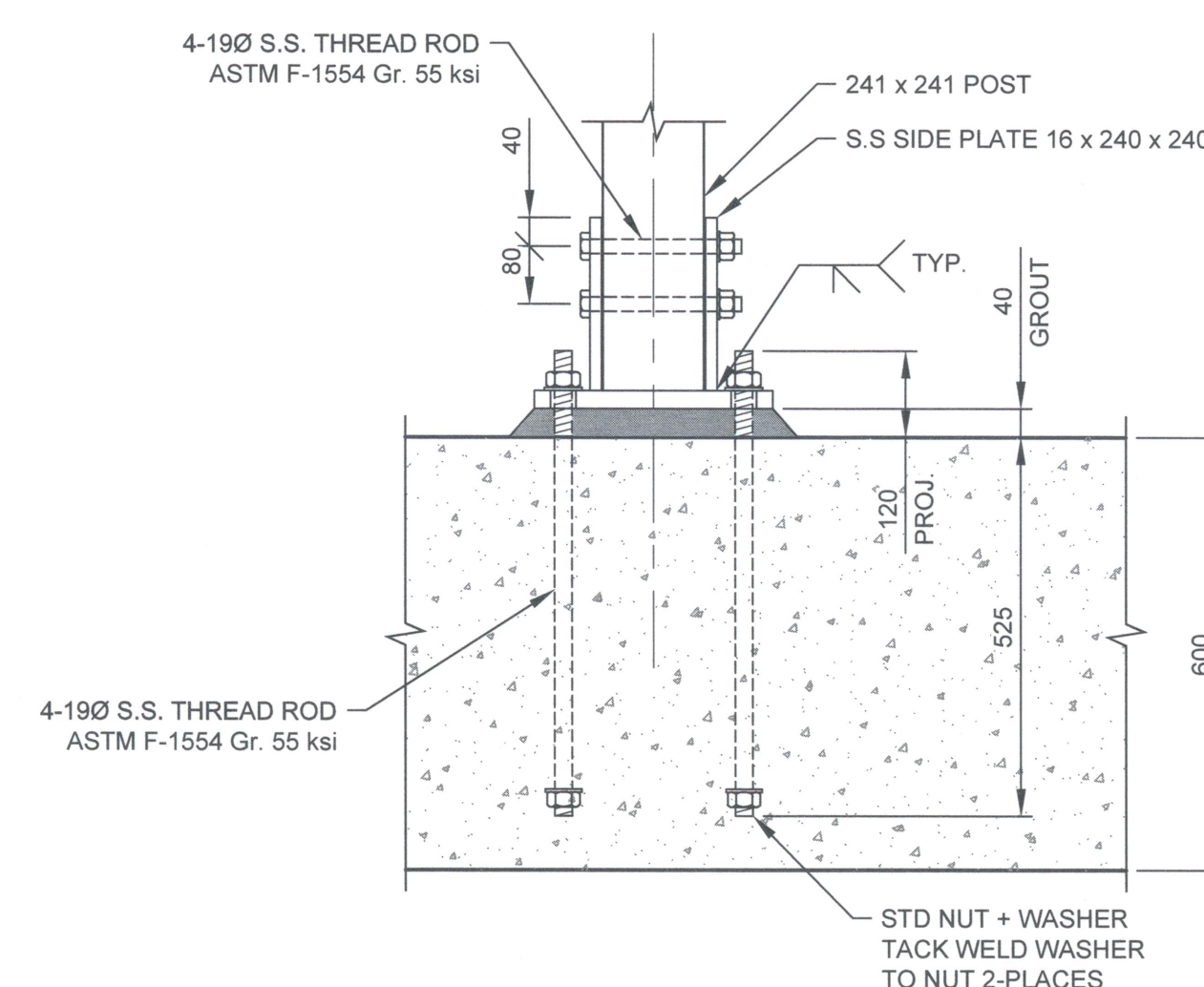
NOTE: ALL WOOD GRADE NO. 1 WESTERN RED CEDAR
PLANE GRADE LUMBER FOR ALL BUILDING ELEMENTS

CONNECTION DESIGN FORCES			
MEMBER No.	AXIAL T/C (kN)	SHEAR STRONG AXIS (kN)	REMARKS
1	2	10	TYPICAL FOR ROOF BEAMS
2	10	-	TOP CHORD OF TRUSS
3	10	-	BOTTOM CHORD OF TRUSS
4	2	-	TYPICAL FOR TRUSS WEB
5	4	-	TYPICAL FOR ALL KNEE BRACES
6	4	3	TYPICAL FOR ALL POSTS

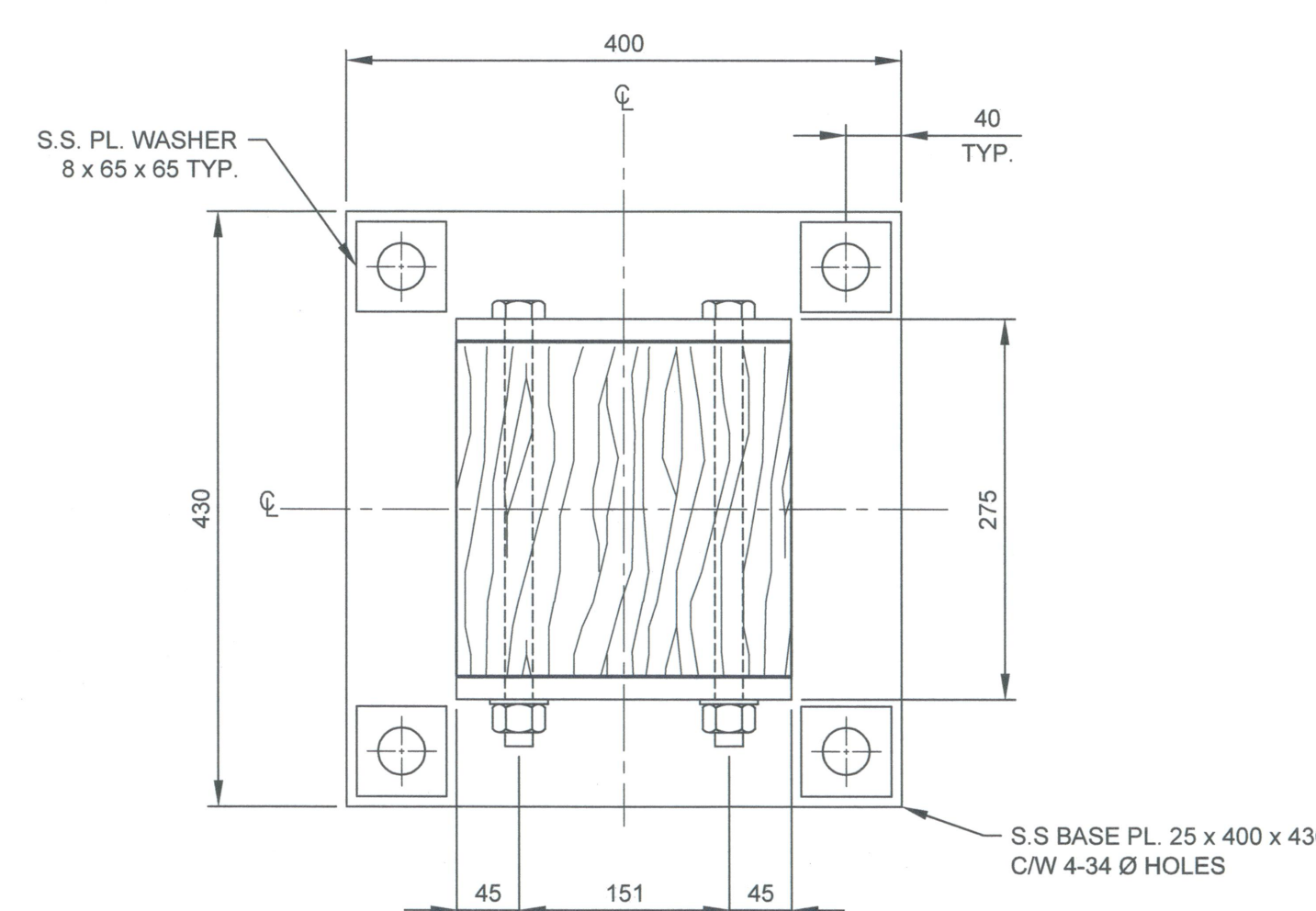
NOTES:
1. ALL FORCES ARE FACTORED.
2. T/C - FORCES IN TENSION OR COMPRESSION.



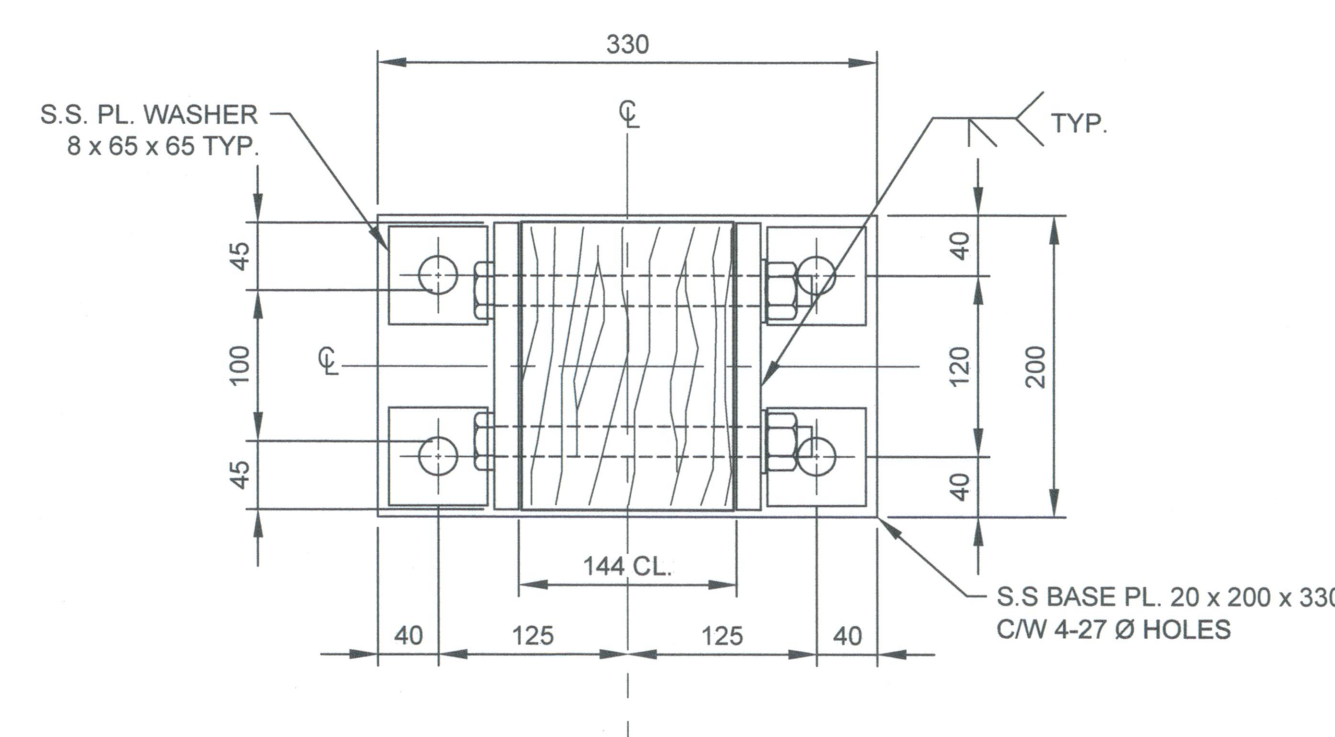
4 SECTION 1:10



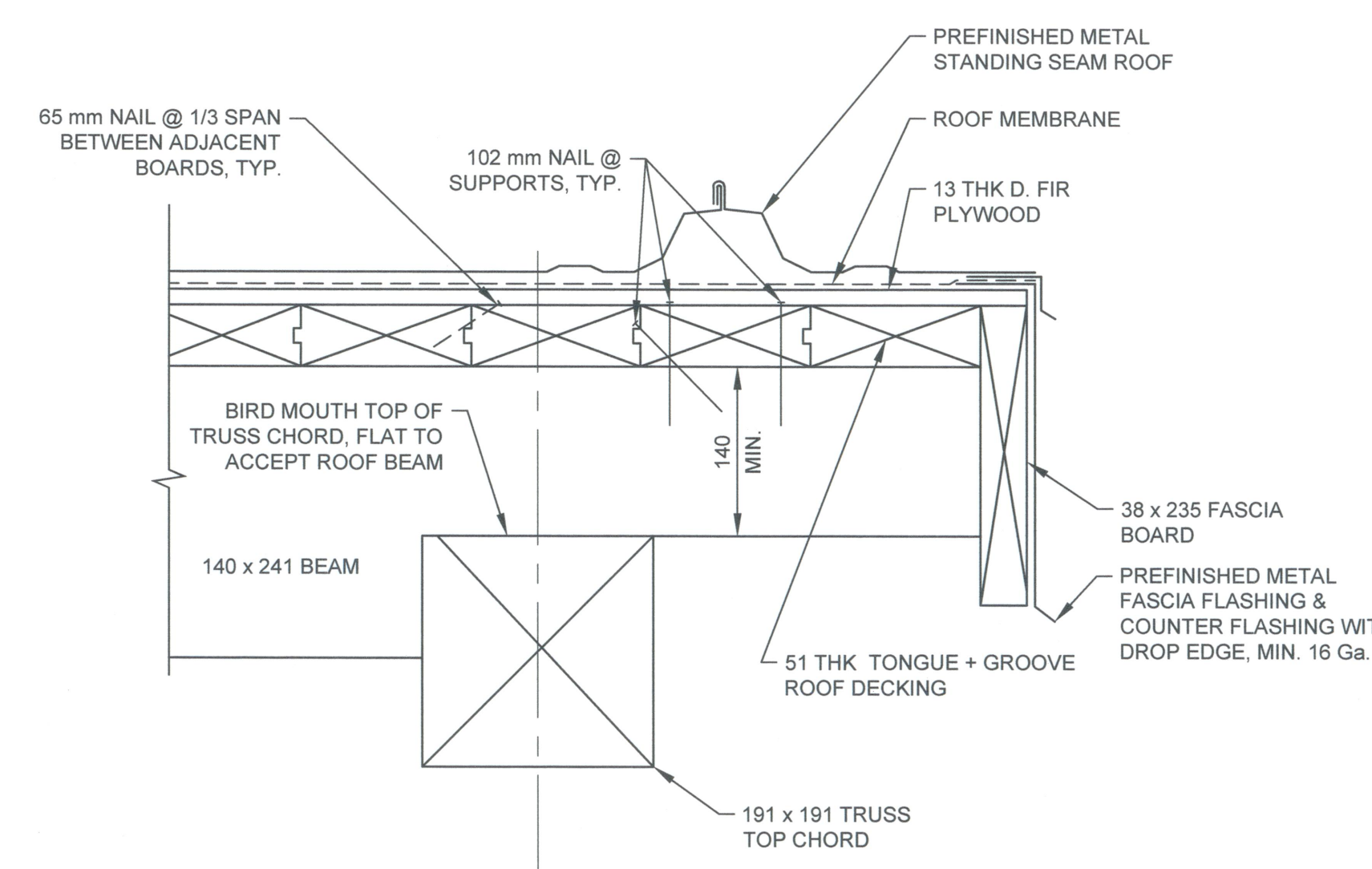
5 DETAIL 1:10



6 DETAIL 1:5



7 DETAIL 1:5



8 SECTION 1:5

0	2016MAY13	ISSUED FOR TENDER	V.Y.	J.L.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	A
C	B/C
Consultant's Name Nom de l'expert-conseil	
Eng. Stamp Sceau de l'ingénieur	
Associated Engineering	
APEGA Permit to Practice P 3979	



Client/Client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project Title/Titre du projet
JOHNSTON CANYON PARKING LOT UPGRADE
BANFF NATIONAL PARK
Drawing Title/Titre du dessin
STRUCTURAL DETAILS
SHEET 2 OF 3

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
V. YIN	V. YIN	2015FEB17
Designed by/Concepté par	Reviewed by/Revu par	Scale/Echelle
S. RESHOTKINA	J. USELLA	AS SHOWN

Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsible Officer/Agent Responsable		PMSC Project Manager/Administrateur de Projets TP500
Project No./No. du projet	Asses No./No. du-Bien	Sheet No./No. de la feuille
20153475		11
Drawing Reference No./No. de référence du dessin		S2



Revision / Revision		
	<p>A detail number numero de detail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no. detail sur dessin no.</p>	

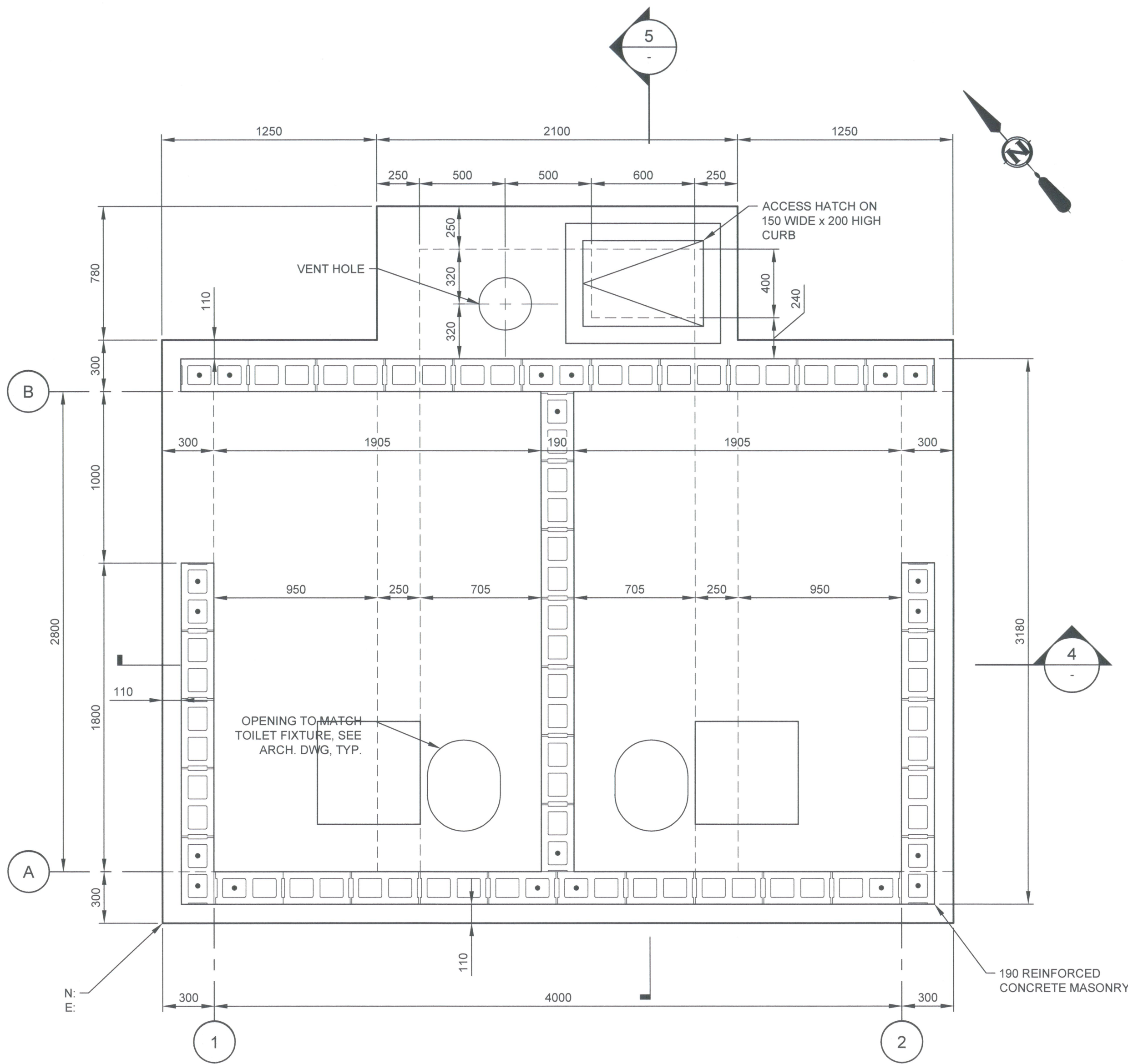
Project title/Titre du projet

JOHNSTON CANYON
PARKING LOT UPGRADE

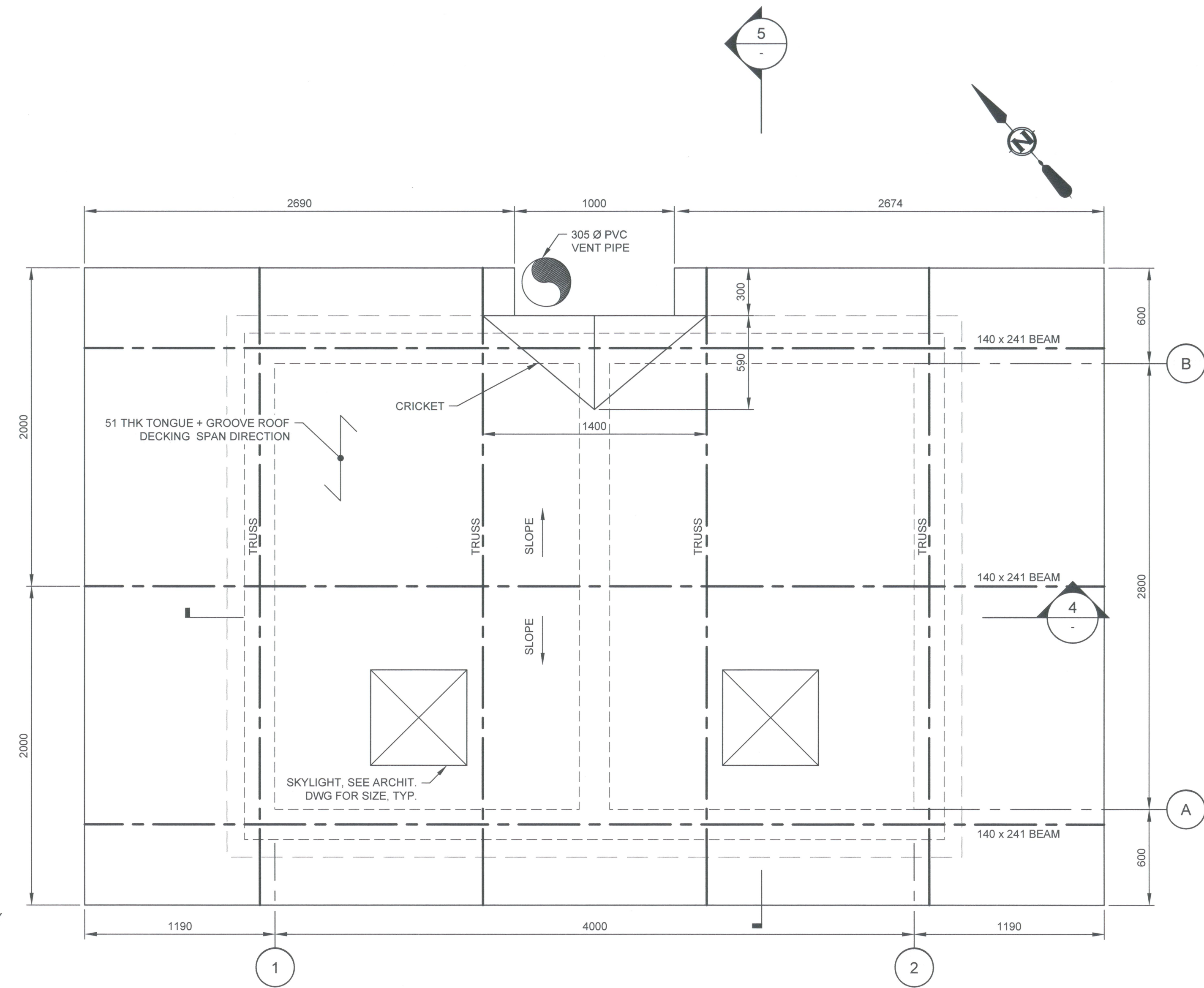
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Drawing title/Titre du dessin

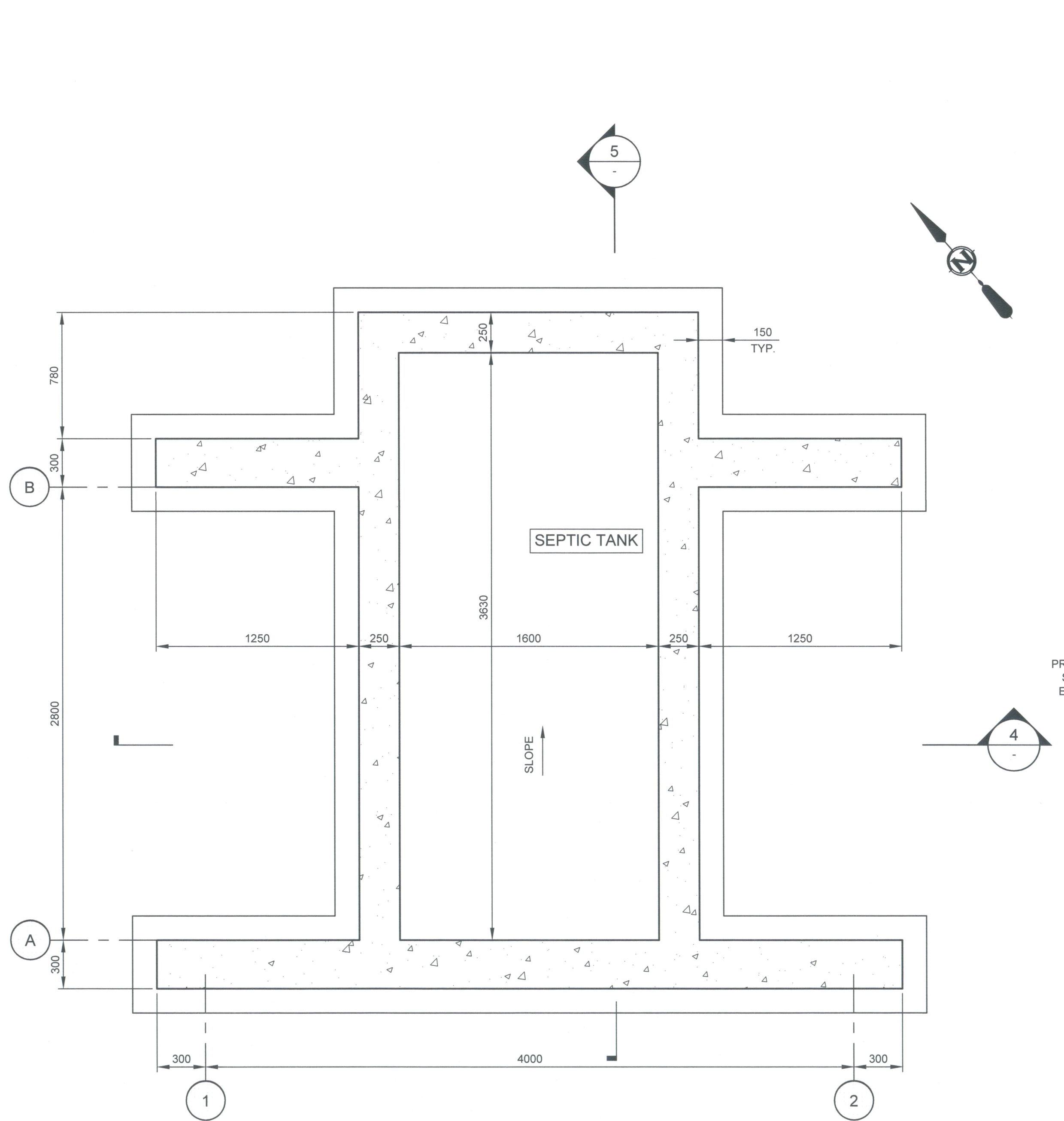
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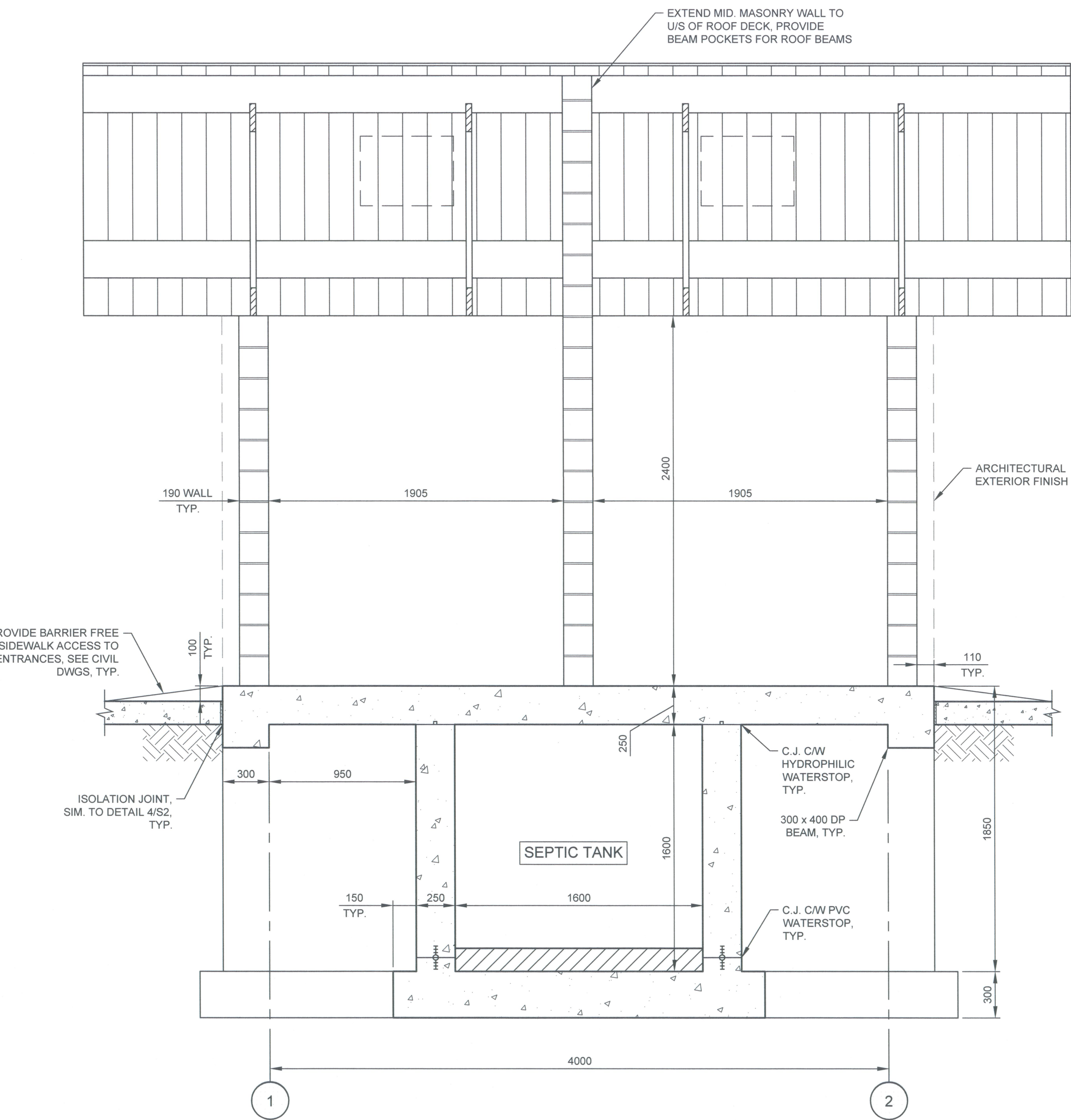
1 PLAN FLOOR 1:20



3 PLAN ROOF 1:20

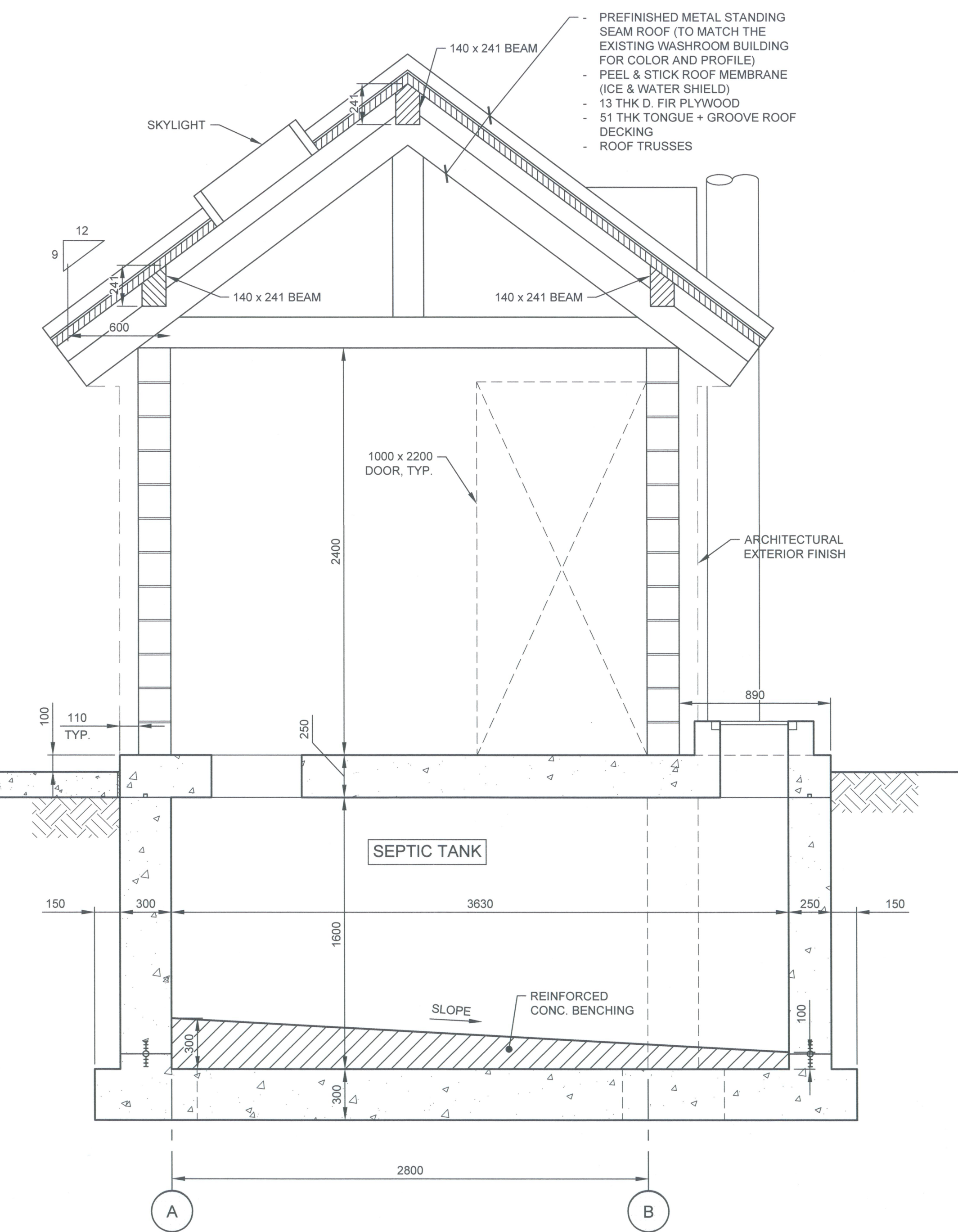


2 PLAN FOUNDATION 1:20



4 SECTION 1:20

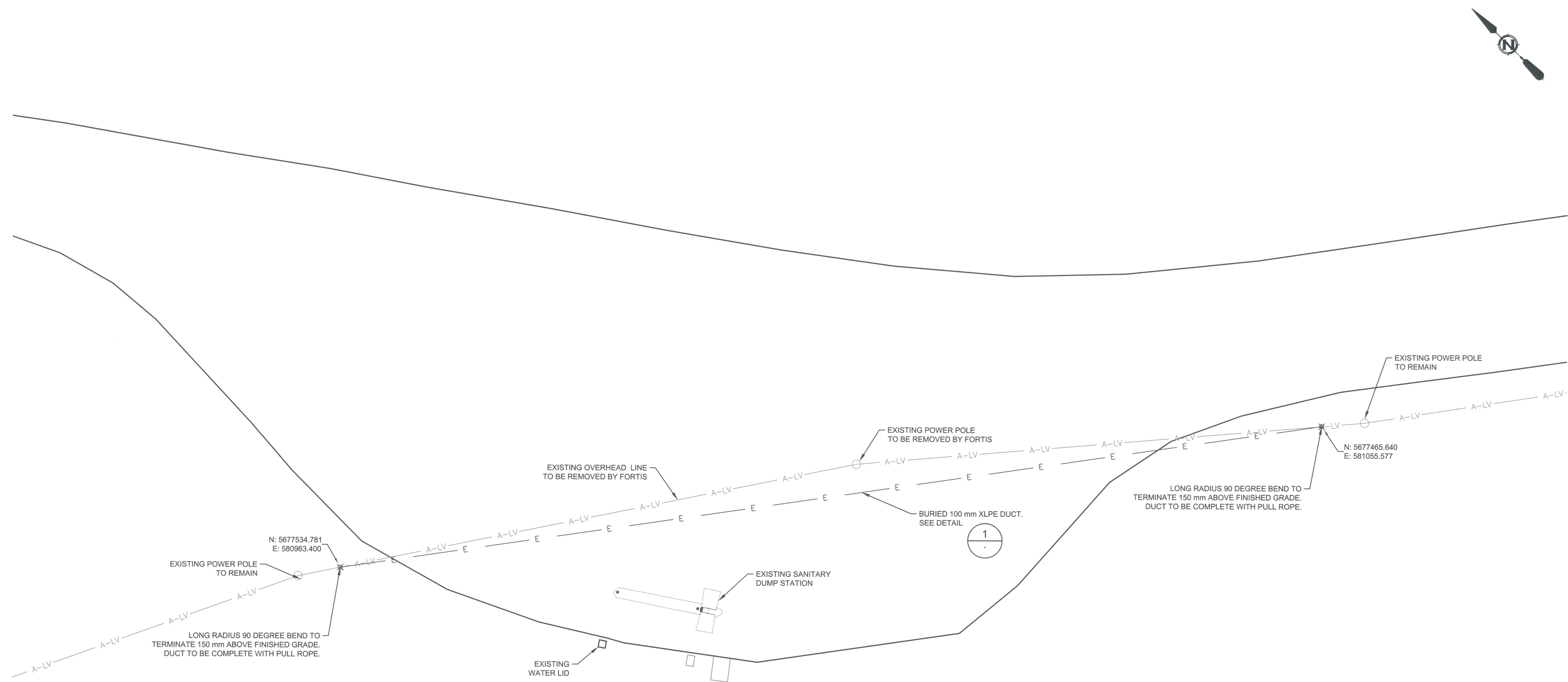
- NOTES:
- GENERAL
 - ALL DESIGN WORK INCLUDING PREPARATION OF WORKING DRAWINGS AND SPECIFICATIONS SHALL BE CARRIED BY PROFESSIONAL ARCHITECTS AND ENGINEERS REGISTERED IN ALBERTA.
 - SERVICE LIFE: ADOPT A SERVICE LIFE OF 25 YEARS WHERE NO OTHER SPECIFIC REQUIREMENTS ARE SPECIFIED. SELECT MATERIALS THAT CAN SERVE UP TO THIS LIFE SPAN WHERE POSSIBLE.
 - THE STRUCTURAL CONCEPT IS SHOWN ON THIS DRAWING. THE FOOTINGS, FOUNDATION WALL, SEPTIC TANK AND MAIN FLOOR SLAB ARE CAST-IN-PLACE REINFORCED CONCRETE. THE SUPERSTRUCTURE IS LOAD BEARING CONCRETE REINFORCED MASONRY WALLS AND LINTEL BEAMS. THE ROOF STRUCTURE IS WOOD FRAME CONSTRUCTION CONSISTING OF ENGINEERED WOOD TIMBER TRUSSES, TIMBER BEAMS AND 51 mm THICK TONGUE AND GROOVE STRUCTURAL DECKING AND 13 mm DOUGLAS FIR PLYWOOD.
 - THE CONTRACTOR WILL NOT ALTER THE FOOTPRINT OF THE BUILDING AS BOUND BY THE EXISTING STRUCTURAL SLAB.
 - THE CONTRACTOR WILL SUBMIT DRAWINGS SHOWING STRUCTURAL PLAN LAYOUT, DESIGN CRITERIA, DESIGN CODES, MATERIAL SPECIFICATIONS, AND DESIGN NOTES. ALL DRAWINGS AND DESIGN NOTES SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA.
 - BUILDING CODES AND STANDARDS
 - THE DESIGN AND CONSTRUCTION OF ALL THE STRUCTURAL ELEMENTS FOR THE PIT PRIVY SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
 - THE PROJECT IS LOCATED WITHIN THE NATIONAL PARKS OF CANADA, AND THE APPLICABLE CODE IS NATIONAL BUILDING CODE OF CANADA.
 - 2010, AND ALL STANDARDS REFERENCED WITHIN.
 - CANCSA-A23.3, DESIGN OF CONCRETE STRUCTURES
 - CSA S304.1, DESIGN OF MASONRY STRUCTURES
 - CSA 086, ENGINEERING DESIGN IN WOOD
 - CLIMATIC DESIGN LOADS
 - REFER TO DRAWING S1, GENERAL NOTES, SENTENCE 10 FOR CLIMATIC DESIGN LOADS, INCLUDING WIND, SEISMIC AND SNOW LOADS.
 - CONCRETE
 - THE DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND SPECIFICATIONS:
 - CANCSA-A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
 - CANCSA-A23.2, METHODS OF TEST FOR CONCRETE
 - A CONCRETE SUPPLIER SHALL PROVIDE CONCRETE TO SITE IN ACCORDANCE WITH CANCSA-A23.1, ALTERNATIVE 1 OF TABLE 5, PERFORMANCE ALTERNATIVE, AND SATISFYING THE FOLLOWING REQUIREMENTS
 - CONCRETE MATERIALS
 - 4.4.1. RIBBED WATERPOPS: EXTRUDED PVC ARCTIC GRADE TO CGSB 41-GR35M, TYPE II, 150 x 10 mm MINIMUM THICKNESS (GREENSTREAK 732 OR APPROVED) WITH MANUFACTURER SUPPLIED CORNER AND INTERSECTING PIECES WITH LEGS NOT LESS THAN 500 mm LONG.
 - 4.4.2. TENSILE STRENGTH: TO ASTM D412, DIE "C" METHOD, MINIMUM 11.4 MPa.
 - 4.4.3. ELONGATION: TO ASTM D412, DIE "C" METHOD, MINIMUM 275%.
 - 4.4.4. TEAR RESISTANCE: TO ASTM D624, DIE "B" METHOD, MINIMUM 48 kN/m
 - 4.4.5. BONDING AGENT: SAND-CEMENT SLURRY TO CSA A23.1
 - WOOD
 - THE DESIGN AND CONSTRUCTION OF ALL WOOD STRUCTURAL ELEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CODES:
 - CSA 086, ENGINEERING DESIGN IN WOOD
 - CSA 0121, DOUGLAS FIR PLYWOOD
 - REFER SPECIFICATION SECTION 06 10 00 ROUGH CARPENTRY FOR FURTHER DESIGN CRITERIA, MATERIAL SPECIFICATIONS, AND SHOP DRAWING SUBMITTALS.
 - FOUNDATION DESIGN
 - THE FOOTINGS FOR THE PIT PRIVY WILL BE FOUND IN A GRAVEL SAND SOIL THAT TYPICALLY EXTENDS APPROXIMATELY 6 M BELOW EXISTING GRADE. THE FOOTING DESIGN FOR THE PIT PRIVY WILL BE BASED ON A MAXIMUM FACTORED ULS BEARING CAPACITY OF 100 kPa, ON THE GRAVEL-SAND SOIL LAYER. THIS BEARING CAPACITY WILL BE VERIFIED ON SITE BY A GEOTECHNICAL ENGINEER ONCE THE EXCAVATION FOR THE PIT PRIVY HAS BEEN COMPLETED.
 - REFER TO GEOTECHNICAL ENGINEERING REPORT BY THURBER ENGINEERING LTD., "GEOTECHNICAL INVESTIGATION JOHNSTON CANYON DAY USE AREA PARKING LOT UPGRADES, DATED NOVEMBER 25, 2015, FILE NO. 17-123-084.
 - MASONRY
 - THE MASONRY LOAD BEARING WALLS SHALL BE DESIGNED TO CSA S304.1 DESIGN OF MASONRY STRUCTURES.
 - ALL MASONRY WALLS SHALL BE 190 CONCRETE MASONRY UNITS, HOLLOW CORE WITH A 15MPA COMPRESSIVE STRENGTH, CONFORMING TO CAN3-A185SERIES.
 - ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND ORIENTATION.
 - ALL JOINTING SHALL HAVE A CONCAVE FINISH WHERE EXPOSED OR WHERE PAINT IS SPECIFIED.
 - MASONRY UNITS SHALL BE REINFORCED IN A GROUTED CORE AT THE FOLLOWING MINIMUM LOCATIONS:
 - 7.5.1. AT ALL WALL INTERSECTIONS - MINIMUM THREE CORES
 - 7.5.2. AT ALL WALL TERMINATIONS - MINIMUM TWO CORES
 - 7.5.3. AT ALL WALL CORNERS - MINIMUM THREE CORES
 - LINTEL BLOCKS SHALL BE USED ABOVE ALL DOOR HEADERS OR OPENINGS.
 - HORIZONTAL TRUSS REINFORCING SHALL BE USED FOR JOINT REINFORCING.
 - THE MASONRY WALLS SHALL BE SECURED TO THE STRUCTURAL SLAB WITH REINFORCING BARS AT ALL GROUTED AND REINFORCED CORES.



5 SECTION 1:20

NOT FOR CONSTRUCTION
CONTRACTOR SHALL
SUBMIT DESIGN
DRAWINGS SEALED BY
P.ENG. FOR SHOP
DRAWING REVIEW PRIOR
TO CONSTRUCTION

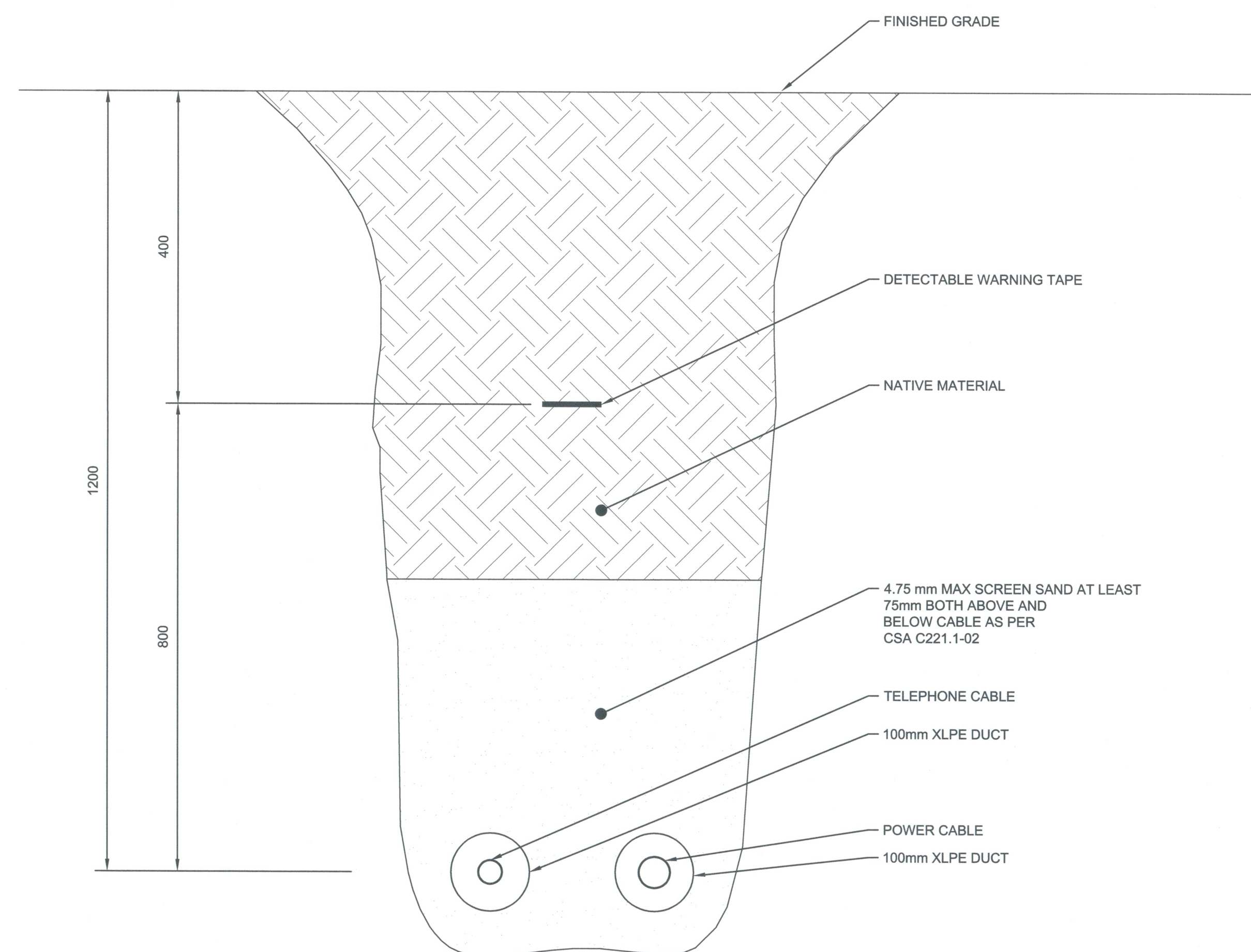
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
		Revision / Revision		
		A detail number numéro de détail		
		B source drawing no. no. de dessin		
		C detail on drawing no. détail sur dessin no.		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Scellé de l'ingénieur		
		APEGA Permit to Practice P 3979		
Client/client		L'Agence Parcs Canada		
		Western and Northern Region		
		Ouest et Nord du Canada		
Project title/Titre du projet				
JOHNSTON CANYON PARKING LOT UPGRADE				
BANFF NATIONAL PARK				
Drawing title/Titre du dessin				
PIT PRIVY PLANS & SECTIONS				
Surveyed by/Argente par		Drawn by/Dessiné par	Date/Date	
S. RESHOTKINA		V. YIN	2016MAY06	
Designed by/Concept par		Reviewed by/Revisé par	Scale/Echelle	
S. RESHOTKINA		J. LUSSELL	AS SHOWN	
PWOSC Project Manager/Administrateur de Projets PWOSC				
Client Acceptance/Acceptation du client		Approved by/Approuvé par		
Parks Responsible Officer/Agent Responsable		PWOSC Project Manager/Administrateur de Projets PWOSC		
Project No./No. du projet		Asset No./No. de bien	Sheet No./No. de la feuille	
20153475			13	
Drawing Reference No./No. de référence du dessin				
S4				



1 PLAN
OVER HEAD ELECTRICAL RE-ALIGNMENT 1:250

LEGEND:
EXISTING OVERHEAD ELECTRICAL — A-LV —
EXISTING POWER POLE ○
PROPOSED UNDERGROUND ELECTRICAL — E —

NOTE:
CONTRACTOR TO COORDINATE WITH FORTIS AND TELUS FOR CABLE INSTALLATION



1 DETAIL
DIRECT BURY DUCTS NTS

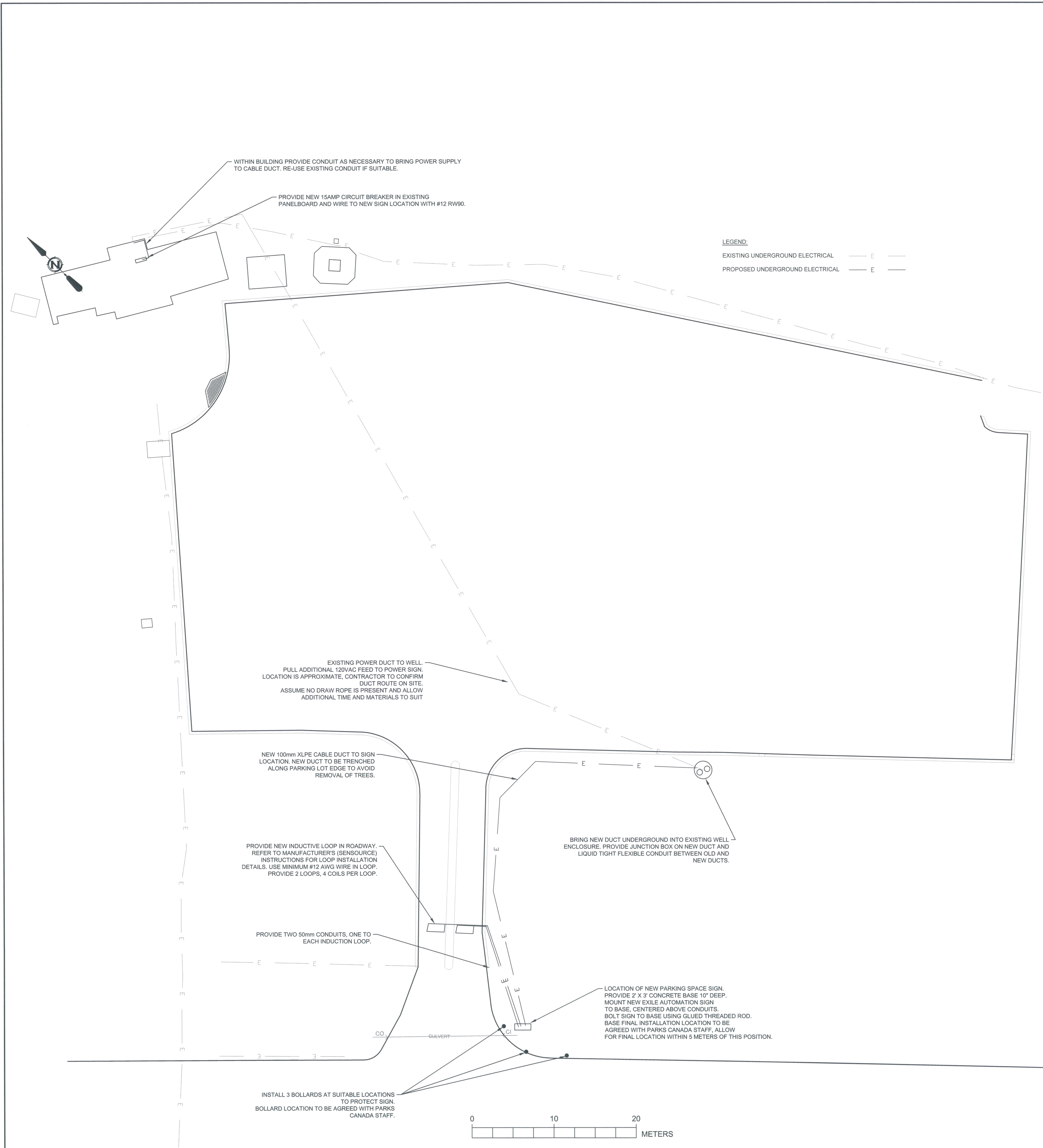
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision		
A detail number numéro de détail	A	A
B source drawing no. no. de dessin	B	B
C detail on drawing no. détail sur dessin no.	C	C
Consultant's Name Nom de l'expert-conseil	Associated Engineering APEGA Permit to Practice P 3979	
Eng. Stamp Sceau de l'ingénieur	Professional Engineer Ingénieur Professionnel Alberta R. 8888	

Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

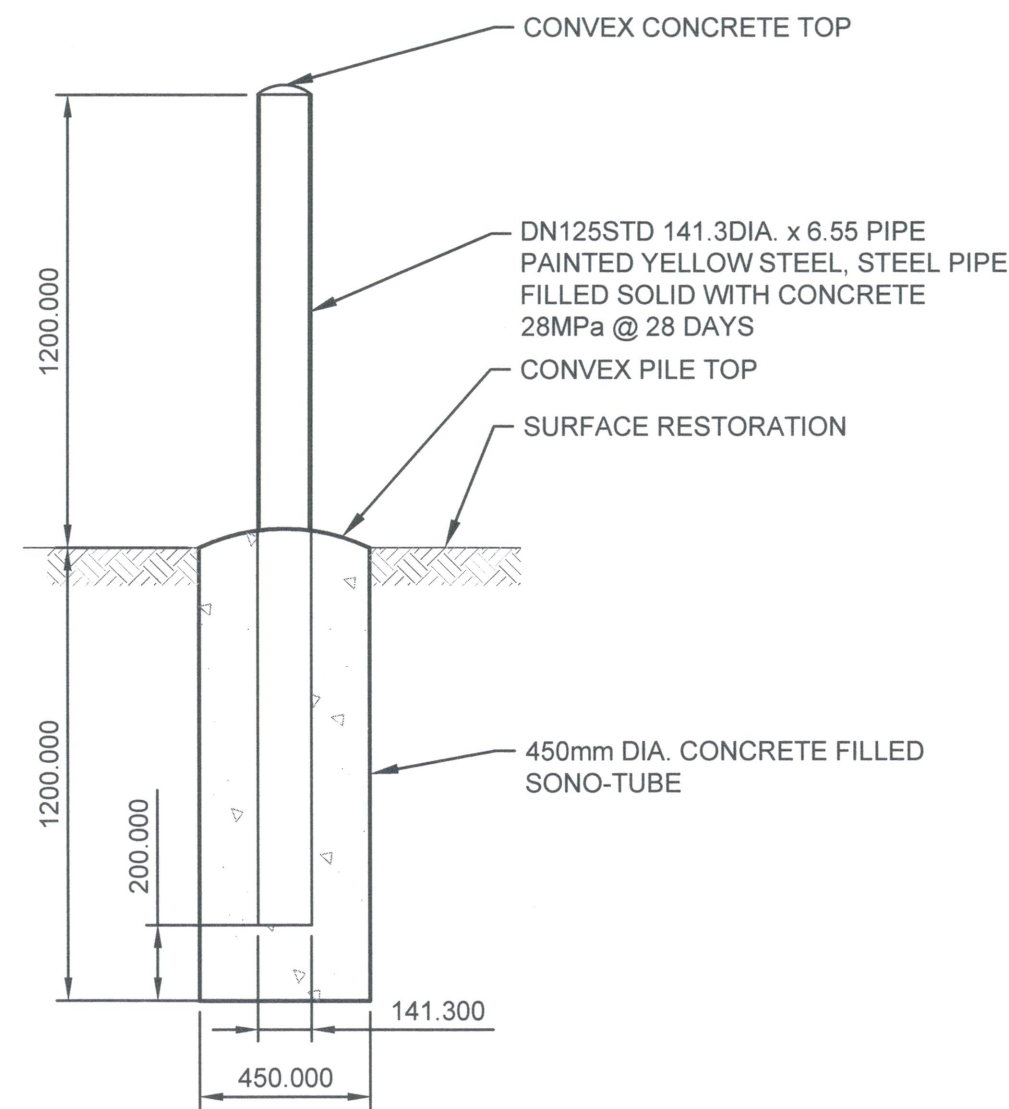
Project title/Titre du projet
**JOHNSTON CANYON
PARKING LOT UPGRADE**
BANFF NATIONAL PARK
Drawing title/Titre du dessin
**OVERHEAD ELECTRICAL
REALIGNMENT**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	B. PRATT	2016APR21
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
G. LAYBURN	R. COLBECK	AS SHOWN
PWOSC Project Manager/Administrateur de Projet TPSUC		
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsible Officer/Agent Responsable		PWOSC Project Manager/Administrateur de Projet TPSUC
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
20153475		14
Drawing Reference No./No. de référence du dessin		15
E1		

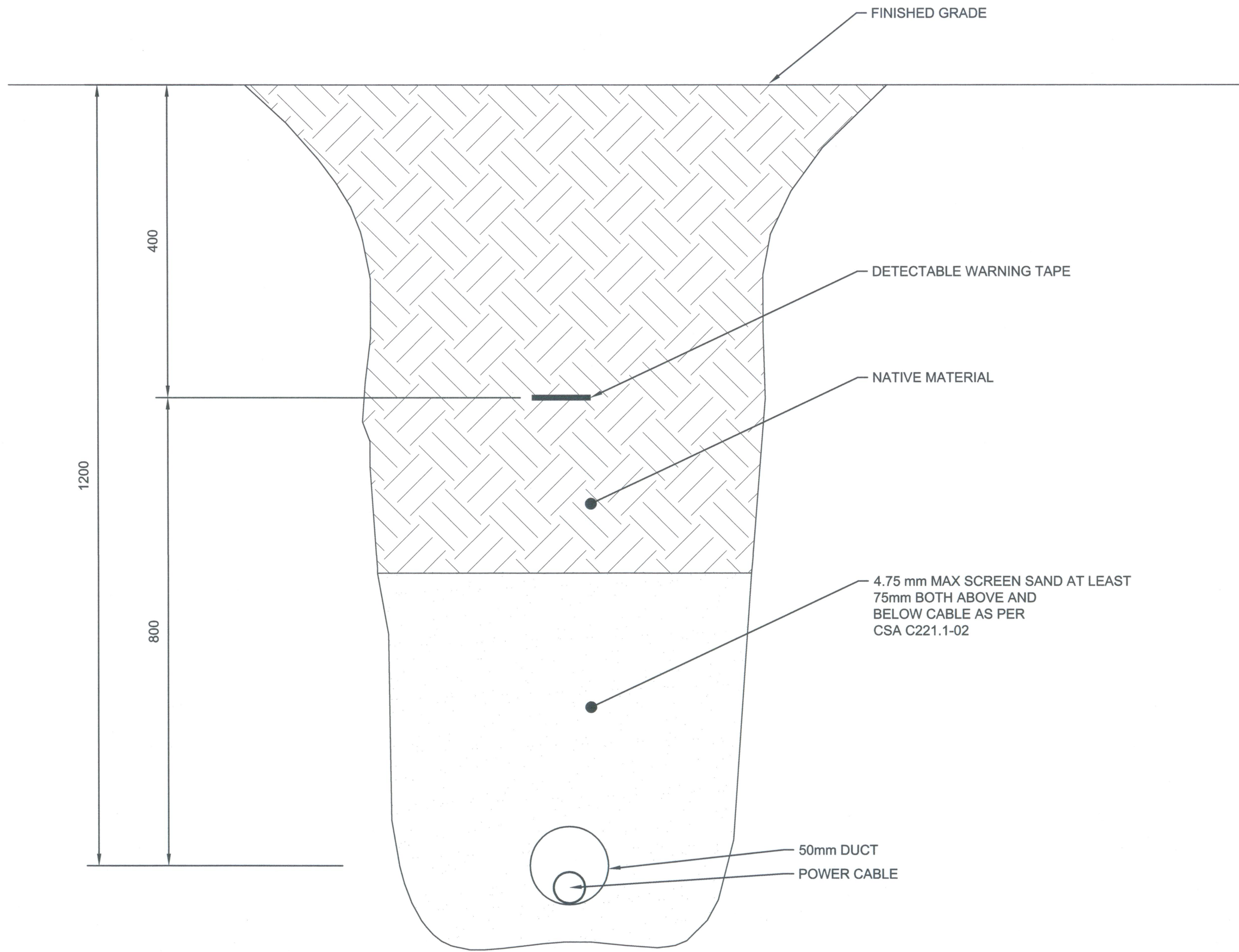


1 PLAN
SITE LAYOUT 1:200

- NOTES
1. PURCHASE PARKING SPACE AUTOMATED SIGN FROM EXILE AUTOMATION BY REFERRING TO 'JOHNSTON CANYON' PACKAGE. A QUOTATION IS INCLUDED IN THE APPENDICES. THE COMPLETE PACKAGE WILL INCLUDE:
 - INDUCTION LOOP RELAYS
 - PLC CONTROLLER
 - PARKING SPACE DISPLAY
 - ENCLOSURETHE AUTOMATED SIGN IS TO BE BOLTED TO A CONCRETE BASE. BASE DIMENSIONS ARE 2' x 3' x 10" DEEP. GLUE THREADED ROD INTO BASE.
 2. INDUCTION LOOP RELAYS ARE PROVIDED BY THE MANUFACTURER SENSOURCE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR DETAILS OF UNDERGROUND INDUCTION LOOP INSTALLATION. INDUCTION LOOPS ARE TO USE MINIMUM #12 WIRE, BE INSTALLED IN CONDUIT, AND THE ROAD SURFACE RETURNED TO ORIGINAL CONDITION. LOOPS WILL BE SAW CUT INTO ASPHALT AND MADE ON SITE FOLLOWING MANUFACTURERS INSTRUCTIONS.
 3. CONTRACTOR TO PROVIDE AN OPTIONAL QUOTATION FOR THE INSTALLATION OF A DUCT DIRECTLY FROM THE WASHROOMS TO THE NEW SIGN. THIS OPTION MAY BE USED IN THE EVENT THAT THE EXISTING DUCT IS DAMAGED AND IT IS NOT POSSIBLE TO PULL A NEW POWER SUPPLY TO THE EXISTING WELL. THE OPTIONAL QUOTATION WILL INCLUDE FOR ALL WORKS AND MATERIALS NEEDED TO PROVIDE POWER TO THE NEW SIGN. A ROUTE DIRECTLY THROUGH THE PARKING LOT RUNNING SOUTH TO THAT OF THE EXISTING WELL SUPPLY IS TO BE USED.



1 DETAIL
BOLLARD INSTALLATION NTS



1 DETAIL
DIRECT BURY DUCTS NTS

0	2016MAY13	ISSUED FOR TENDER	G.L. R.C.
No.	Date/Date	Description/Description	Drawn by Dessiné par
Revision / Revision		Approved Approuvé	
A	C	A detail number numéro de détail B source drawing no. de dessin no. C detail on drawing no. détail sur dessin no.	A B C
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Scellé de l'ingénieur	
APEGA Permit to Practice P 3979			
Client/client			
	Parks Canada Agence	L'Agence Parcs Canada	
Western and Northern Region		Ouest et Nord du Canada	
Project title/Titre du projet			
JOHNSTON CANYON PARKING LOT UPGRADE			
BANFF NATIONAL PARK			
Drawing title/Titre du dessin			
PARKING LOT COUNTER ELECTRICAL PLAN			
Surveyed by/Arpenté par		Drawn by/Dessiné par	Date/Date
		G. LAYBOURN	2016MAY08
Designed by/Concept par		Reviewed by/Revisé par	Scale/Echelle
G. LAYBOURN		R. COLDRECK	AS SHOWN
PWOSC Project Manager/Administrateur de Projets TP50C			
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Responsable		PWOSC Project Manager/Administrateur de Projets TP50C	
Project No./No. du projet		Assest No./No. du-bien	Sheet No./ No. de la feuille
20153475			15
Drawing Reference No./No. de référence du dessin			
E2			