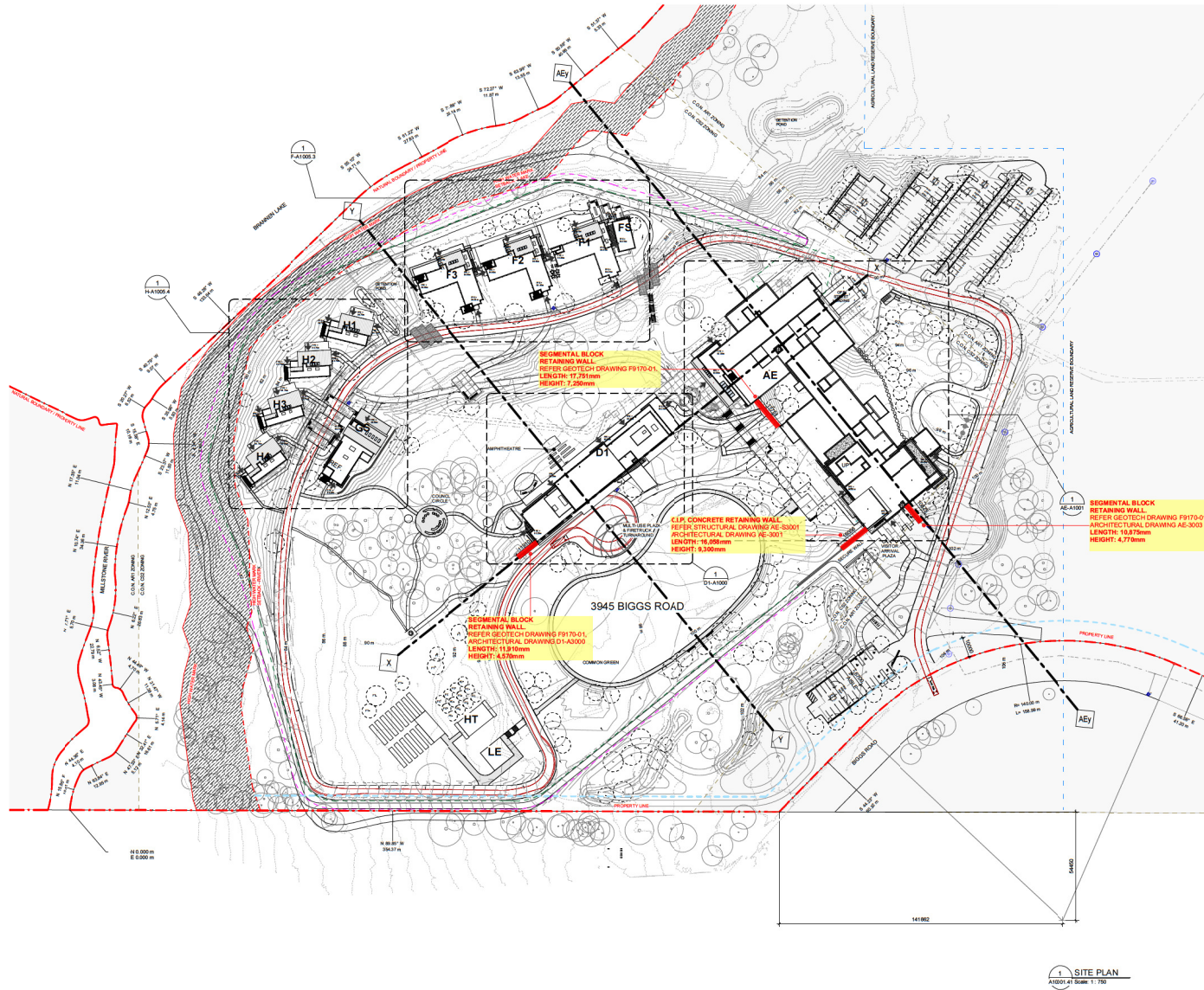


# ATTACHMENT G RETAINING WALL PLAN AND DETAILS

1 of 3



**KEY PLAN**

**CLIENT**  
Infrastructure BC  
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ISSUE NO.	DESCRIPTION	DATE
1	DP SUBMISSION	2021-02-03
2	REBID FOR DEMOLITION PERMIT	2021-02-19
3	AS-BUILT FOUNDATION BP	2021-05-14
4	AS-BUILT SURVEY/STRUCTURE BP	2021-06-18
5	DP RESPONSE	2021-06-25
6	DP RESPONSE	2021-07-09

**CONSULTANTS**

**LEGEND**

- PROPERTY BOUNDARY
- SETBACK
- HIGH WATER MARK
- HIGH WATER MARK SETBACK
- SECURE PERIMETER FENCE
- THREAT PERIMETER FENCE
- LEAVE STRIP
- OVERHEAD POWER LINE - EXISTING
- OVERHEAD POWER LINE - PROPOSED
- SANITARY MAN - EXISTING
- SANITARY MAN - PROPOSED
- SITE LIGHTING POWER CONDUIT
- STORM MAN - EXISTING
- STORM MAN - PROPOSED
- UG POWER CONDUIT - EXISTING
- UG POWER CONDUIT - PROPOSED
- UNDERGROUND TELECOMM
- FIRE ALARM UNDERGROUND DUCT
- WATER MAN - EXISTING
- WATER MAN - PROPOSED
- GAS LINE
- EXISTING SITE TOPOGRAPHY
- PROPOSED REGRADING
- TREE - EXISTING
- TREE - PROPOSED
- FIRE HYDRANT
- FIRE TRUCK TURNING MOVEMENTS
- FIRE DEPT CONNECTION
- AREA DRAIN
- LAWN BASIN
- CATCH BASIN
- TRENCH DRAIN
- LAMP STAND
- POWER POLE - EXISTING
- POWER POLE - PROPOSED

**PRIME CONSULTANT**  
IBI GROUP  
100 West Beaver Creek Road  
Richmond, BC V6X 3V9, CANADA

**PROJECT**  
NANAIMO CORRECTIONAL CENTRE  
3945 BIGGS ROAD  
NANAIMO, BC  
V9P 6N3, CANADA

**PROJECT NO.**  
122747

**DRAWN BY:** MW  
**CHECKED BY:** GS

**PROJECT MGR:** TED  
**APPROVED BY:** TED

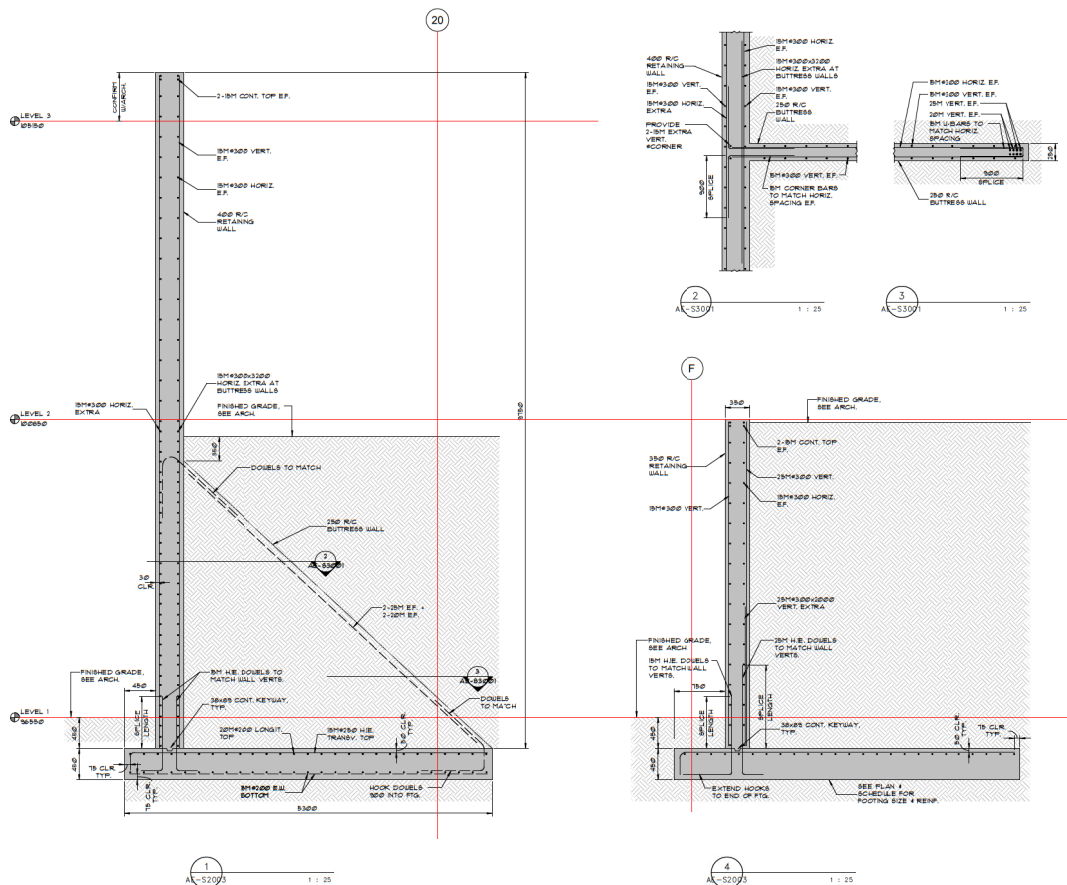
**SHEET TITLE**  
SITE PLAN - PHASE 4 - PROPOSED

**SHEET NUMBER**  
A10001.41

**ISSUE**  
6

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ISSUES

NO.	DESCRIPTION	DATE
1	SELECT FOR TENDER	2021-06-09
2	AS-BUILT SUPERSTRUCTURE BY AMENDMENT	2021-06-11
3	ISSUE FOR BIDDING	2021-06-18

CONSULTANTS

BushBohman & Partners  
Consulting Structural Engineers  
1550-1500 West Georgia St.  
Vancouver, BC V6G 2Z8  
604 688 9861  
bushbohman.com

PRIME CONSULTANT

IBI GROUP  
100-1100 West 10th Street  
Vancouver, BC V6H 4T6 Canada  
Tel: 604 681 7000 Fax: 604 681 7001  
www.ibigroup.com

PROJECT  
NANAIMO CORRECTIONAL CENTRE  
3848 BROSS ROAD  
NANAIMO, BC  
V9F 6N3, CANADA

PROJECT NO.  
7729

DRAWN BY:  
JB

CHECKED BY:  
MSB

PROJECT MGR:  
TRMSB

APPROVED BY:  
MSB

SHEET TITLE  
BLOCK AE - SECTIONS & DETAILS (CONCRETE) SHEET 2

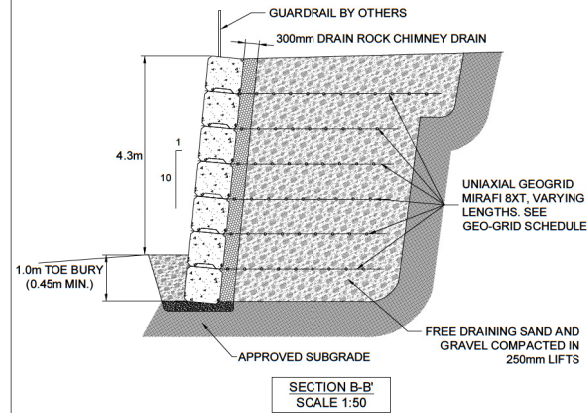
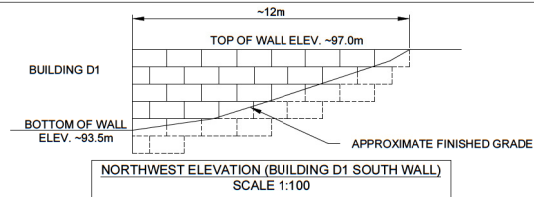
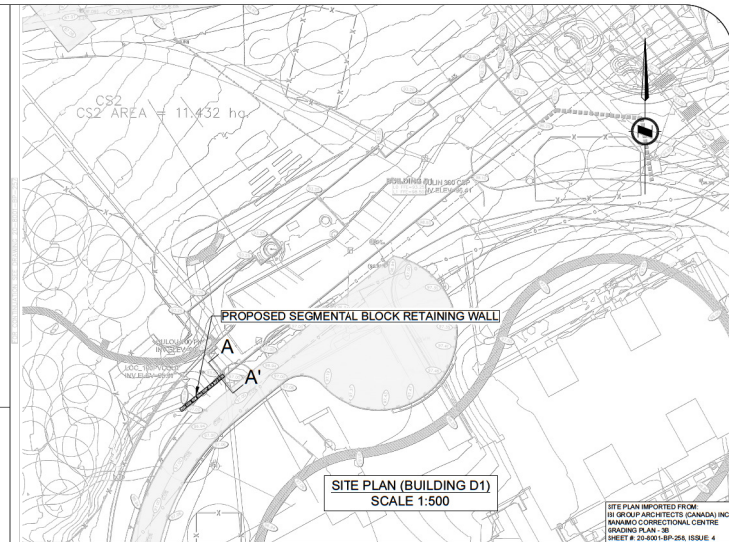
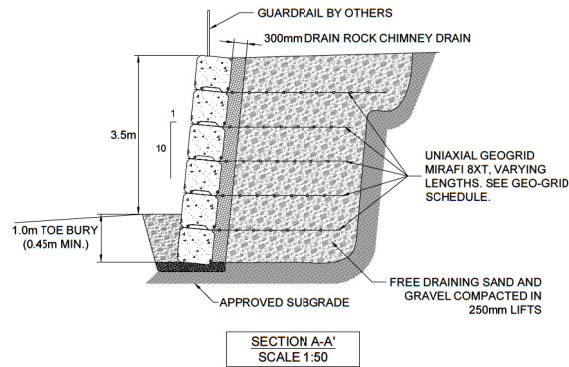
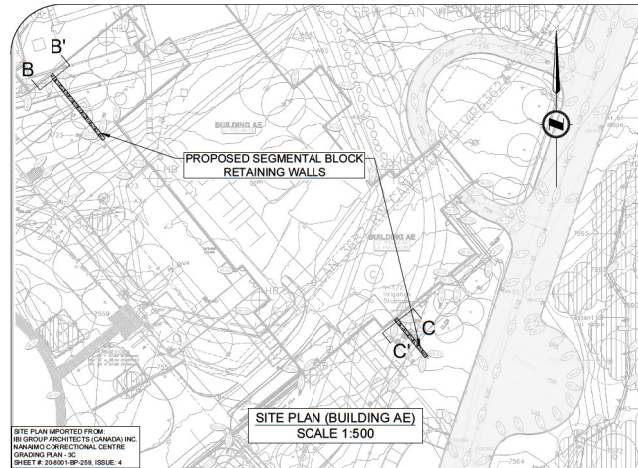
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ISSUE  
3

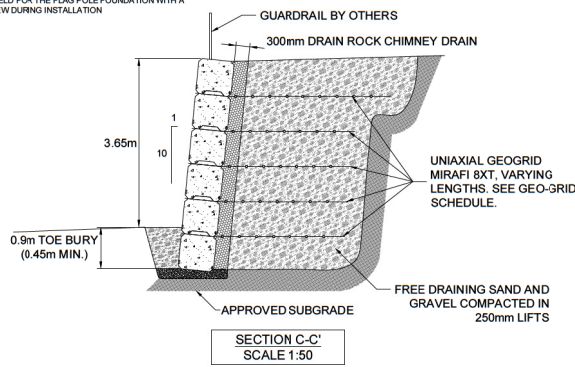
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Current Planning

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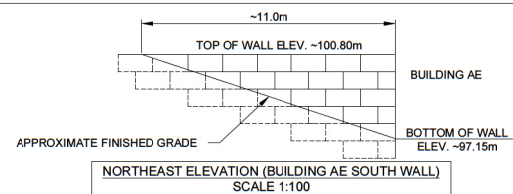
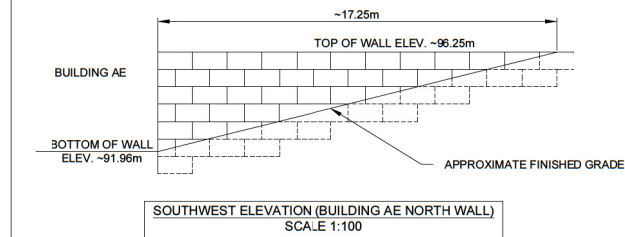


NOTE: FOR BUILDING AE SOUTH WALL GEO-GRID WILL REQUIRE ALTERATION IN FIELD FOR THE FLAG POLE FOUNDATION WITH A ENGINEERS REVIEW DURING INSTALLATION



**GEO-GRID SCHEDULE**

Wall Height (# of Blocks)	Geo-grid Length Top Layer (m)	Geo-grid Length Lower Layers (m)
6	5.15	4.30
5	4.30	3.60
4	3.55	3.00
3	2.85	2.45
2 OR LESS	N/A	N/A



**GENERAL NOTES:**

- GEO-TECHNICAL INSPECTIONS:
  - BEARING (SUBGRADE)
  - BACKFILL COMPACTION
- SEGMENTAL BLOCKS, 0.75m X 0.75m X 1.5m MONO POUR ONLY
- BLOCKS ASSEMBLED IN A RUNNING BOND PATTERN
- RETAINING WALLS SHOULD NOT BE ALTERED ONCE INSTALLED
- DRAINAGE THROUGH FACE OF WALL
- LINE AND LAYOUT TO BE CONFIRMED BY OTHERS
- SERVICE LINES TO BE REVIEWED AND ANY CONFLICTS WITH REINFORCED SOILS ENVELOPE RESOLVED PRIOR TO INSTALLATION

**DESIGN NOTES:**

- SEGMENTAL BLOCKS 0.75m X 0.75m X 1.5m, NO. 1 (MONO POUR) CONCRETE WITH INTERLOCKING NODULES.
- RETAINED SOIL,  $\phi = 30^\circ$ ,  $\gamma = 21 \text{ kN/m}^3$
- BEARING SOIL,  $\phi = 30^\circ$ ,  $\gamma = 21 \text{ kN/m}^3$
- SURCHARGE = 12  $\text{kN/m}^2$
- MSE WALL DESIGN GENERALLY FOLLOWS FHWA, CFEM AND EGBC GUIDELINES.

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CALVERT PUBLISHING

REV No	DATE	BY	P.Eng.	REVISION DESCRIPTION	LEGEND	DRAWING TITLE	ENGINEER'S SEA.	PLOT DATE	DRAWN BY
						SEGMENTAL BLOCK WALLS		2021-06-25	NV
						PROJECT NAME		REVIEWED BY	SCALE
						NANAIMO CORRECTIONAL CENTRE, 3945 BIGGS ROAD, NANAIMO, BC		CH	AS NOTED
						LEGAL DESCRIPTION		PROJECT No.	DRAWING No.
								F9170	F9170-01

