

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
C01	SEP 12 2016	ISSUED FOR TENDER	D.K.	<i>DK</i>
B01	AUG 17 2016	ISSUED FOR 100% REVIEW	D.K.	

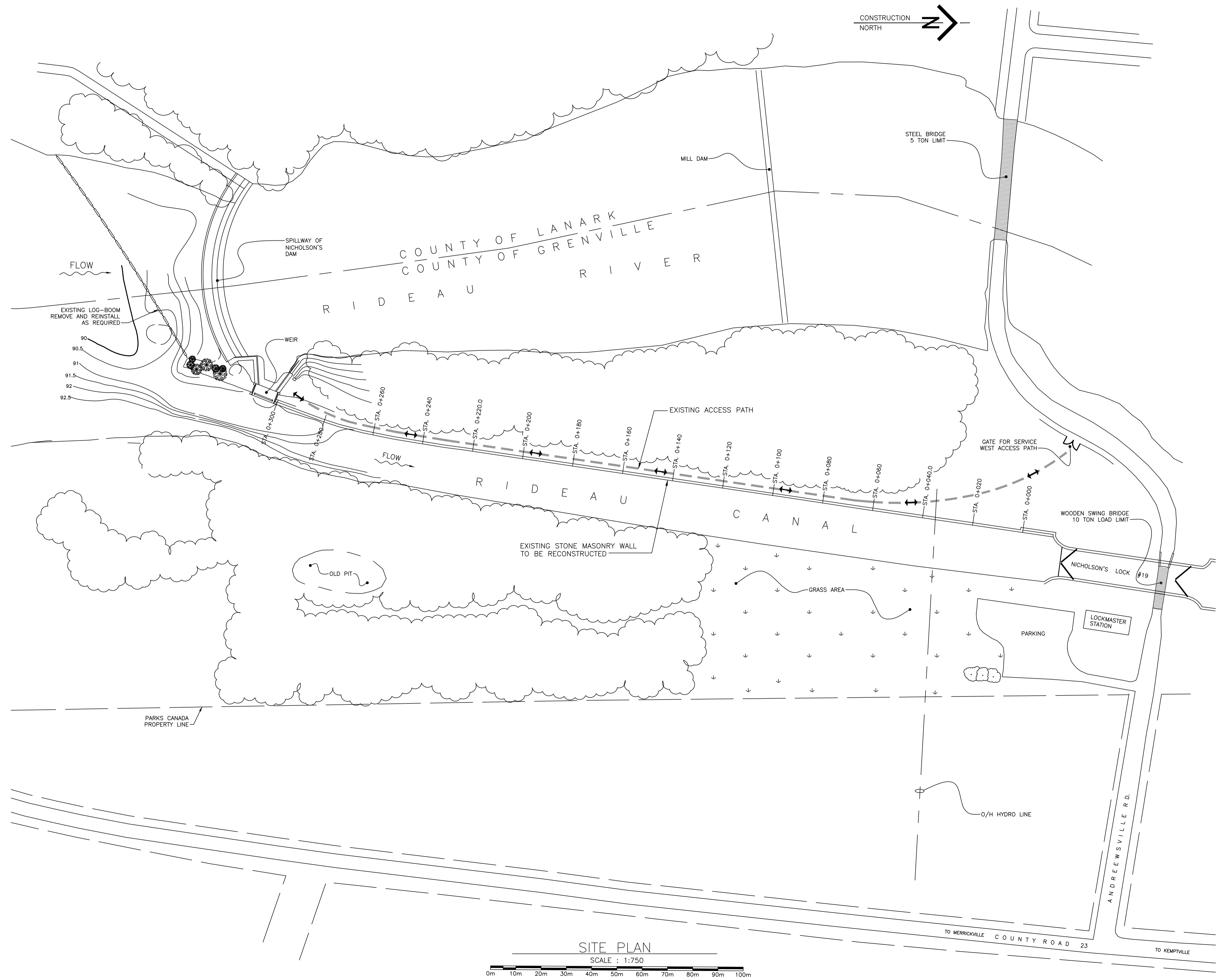
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A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

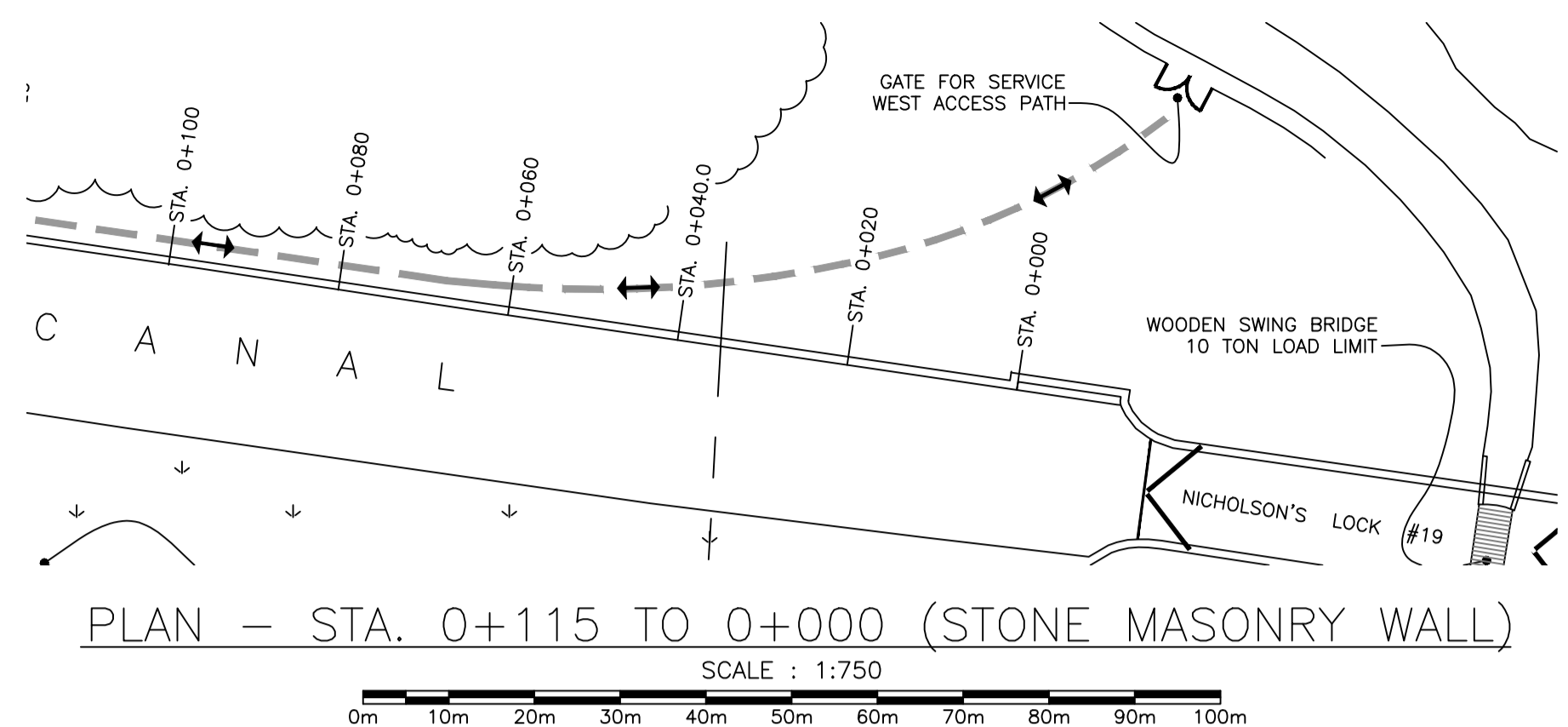
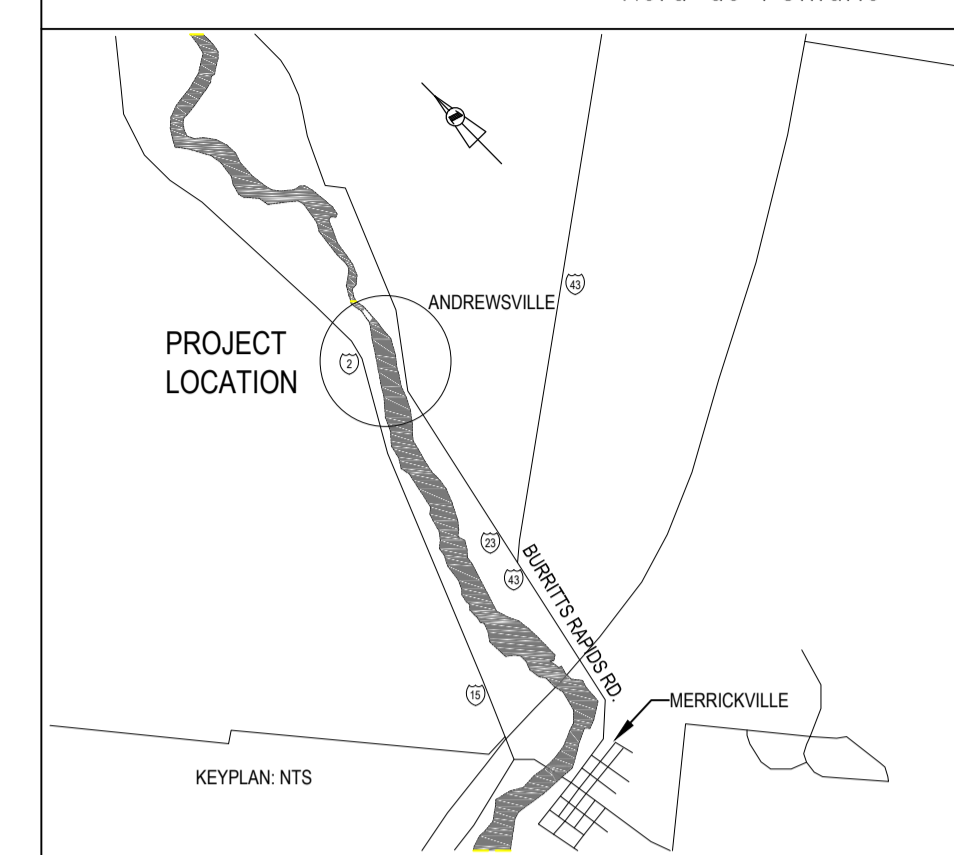
Consultant's Name / Nom de l'expert-conseil <b>SNC-LAVALIN</b> SNC-LAVALIN Inc. Halifax, Nova Scotia, Canada Member of the SNC-LAVALIN Group	Eng. Stamp / Sceau de l'ingénieur D.S. BULGER 188131897 2016/09/09 PROVINCE OF ONTARIO
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Project title/Titre du projet  
**UPPER NICHOLSONS EARTH DAM REHABILITATION**

Drawing title/Titre du dessin  
**SITE PLAN**

Designed by/Concept par D. KING	Date 2016/05/03
Drawn by/Dessiné par D.B.	Date 2016/06/29
Checked by/Vérfifié par D.B.	Date <i>DK</i>
Project No./No. du projet 20034960	Scale/Echelle 1:750
Drawing Set No./No. de série du dessin	Sheet No./Node la feuille S1





0+115 - 0+110



0+110 - 0+105



0+105 - 0+100



0+100 - 0+095



0+095 - 0+090



0+090 - 0+085



0+085 - 0+080



0+080 - 0+075



0+075 - 0+070



0+070 - 0+065



0+065 - 0+060



0+060 - 0+055



0+055 - 0+050



0+050 - 0+045



0+045 - 0+040



0+040 - 0+035



0+035 - 0+030



0+030 - 0+025



0+025 - 0+020



0+020 - 0+015



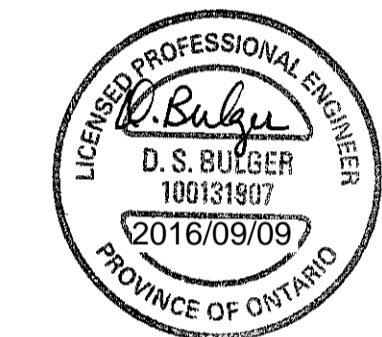
0+015 - 0+010



0+010 - 0+005



0+005 - 0+000



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B01	AUG 17 2016	ISSUED FOR 100% REVIEW	D.K.	

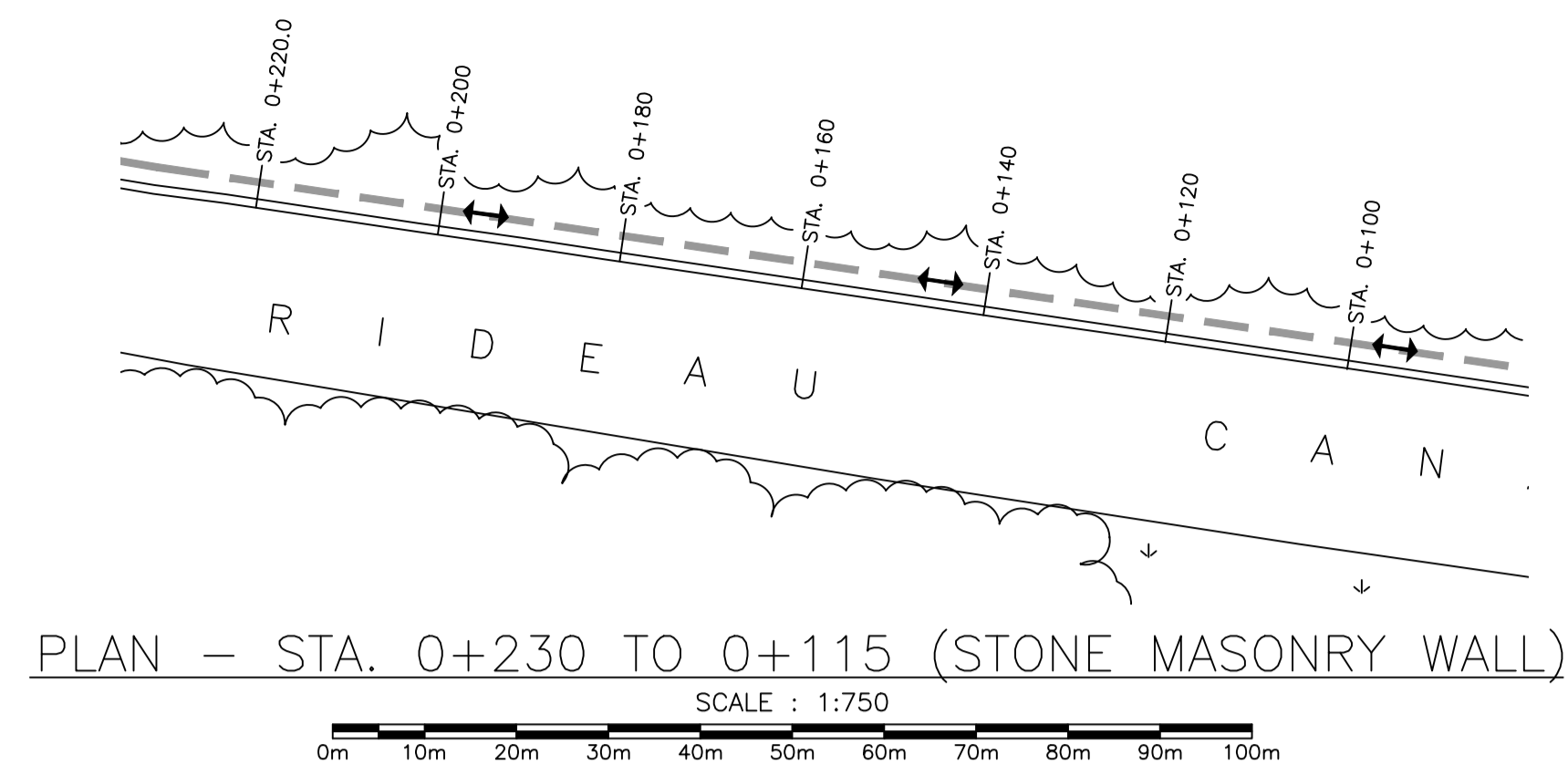
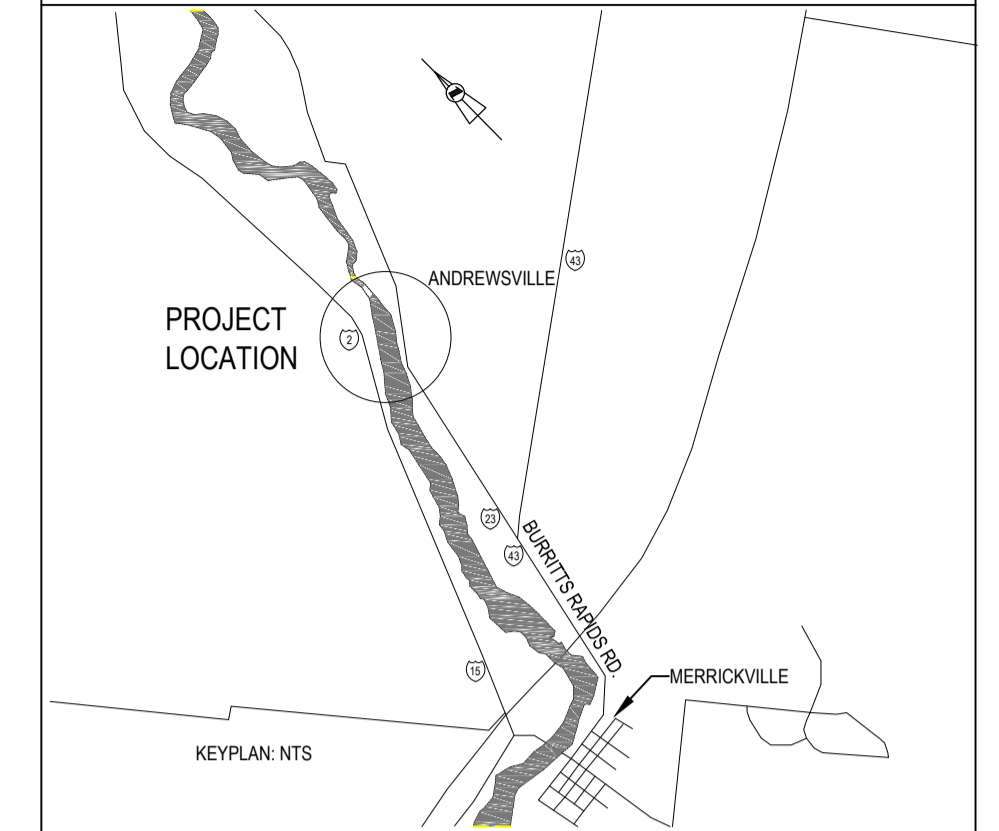
Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille
Linear dimensions in millimetres / Dimensions linéaires en millimètres	

Consultant's Name / Nom de l'expert-conseil: **SNC-LAVALIN**  
 Eng. Stamp / Sceau de l'ingénieur: **SNC-LAVALIN Inc.**  
 Halifax, Nova Scotia, Canada  
 Member of the SNC-LAVALIN Group

Project title / Titre du projet: **UPPER NICHOLSONS EARTH DAM REHABILITATION**

Drawing title / Titre du dessin: **EXISTING CONDITIONS STA. 0+115 TO 0+000**

Designed by / Concept par: D. KING	Date: 2016/05/03
Drawn by / Dessiné par: D. KING	Date: 2016/06/29
Checked by / Vérifié par: D.B.	Date: <i>D.B.</i>
Project No. / No. du projet: 20034960	Scale / Echelle: 1:750
Drawing Set No. / No. de série du dessin: S2	Sheet No. / Node la feuille: S2



0+230 - 0+225



0+225 - 0+220



0+220 - 0+215



0+215 - 0+210



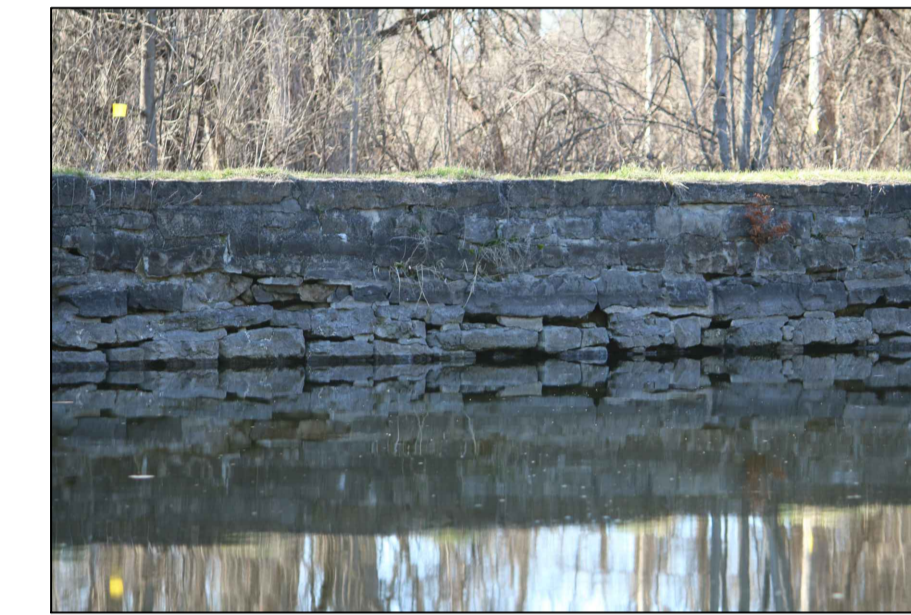
0+210 - 0+205



0+205 - 0+200



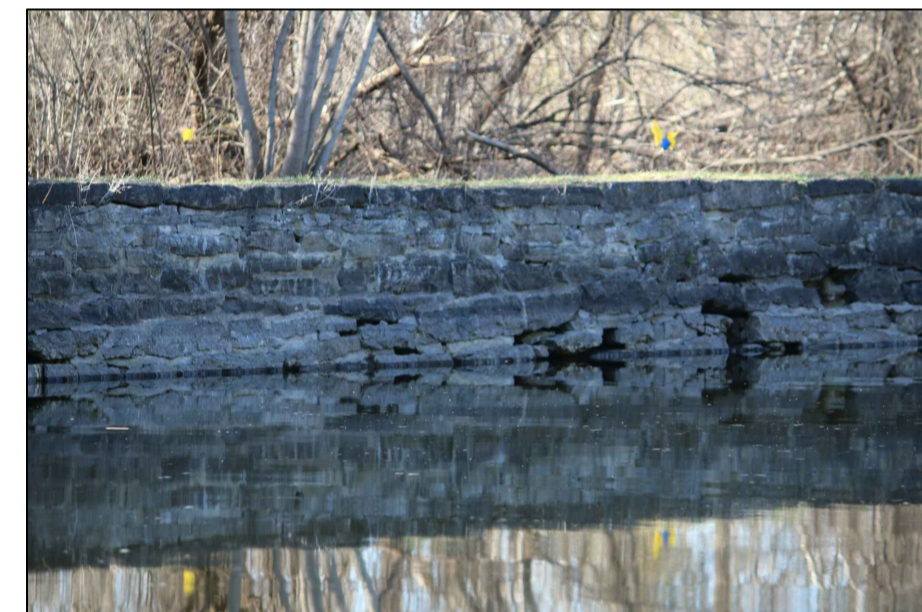
0+200 - 0+195



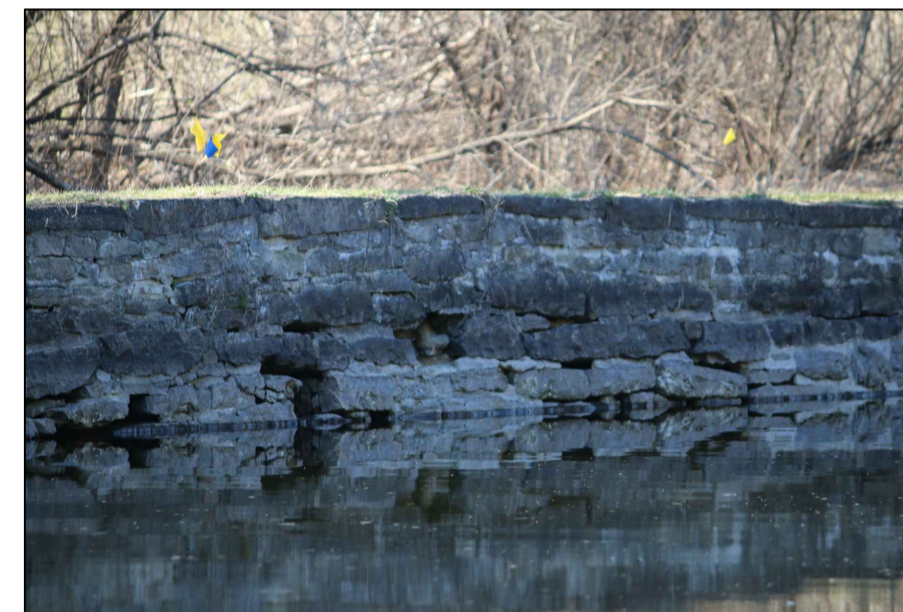
0+195 - 0+190



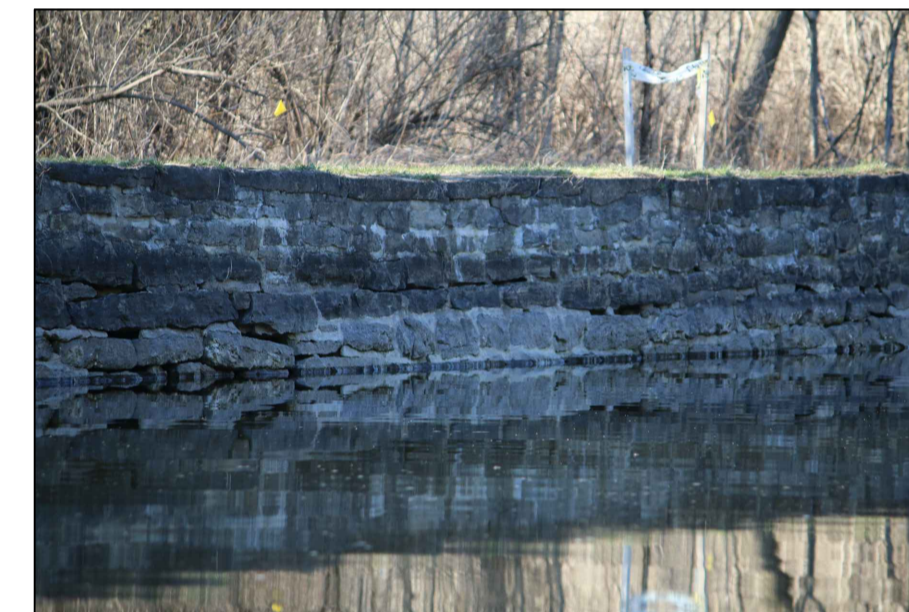
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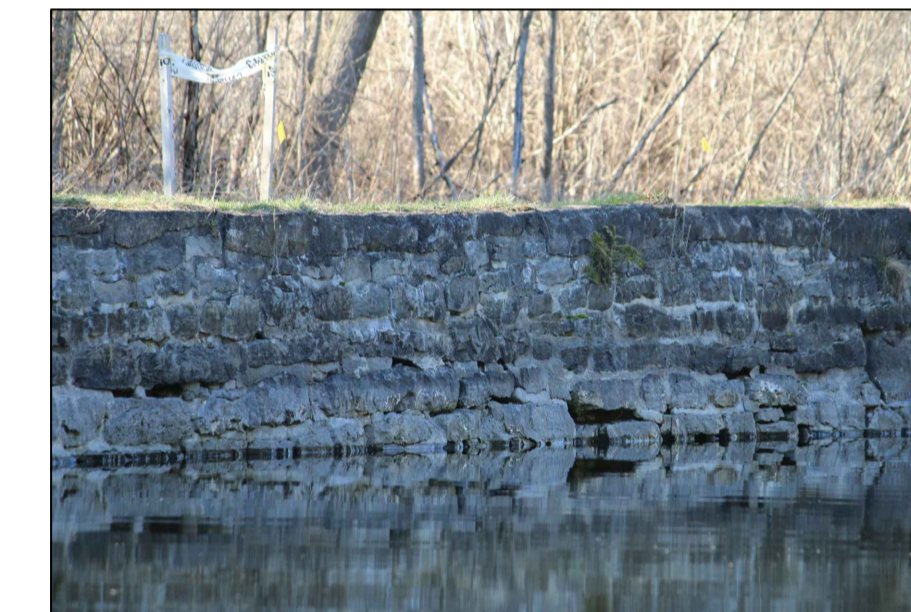
0+185 - 0+180



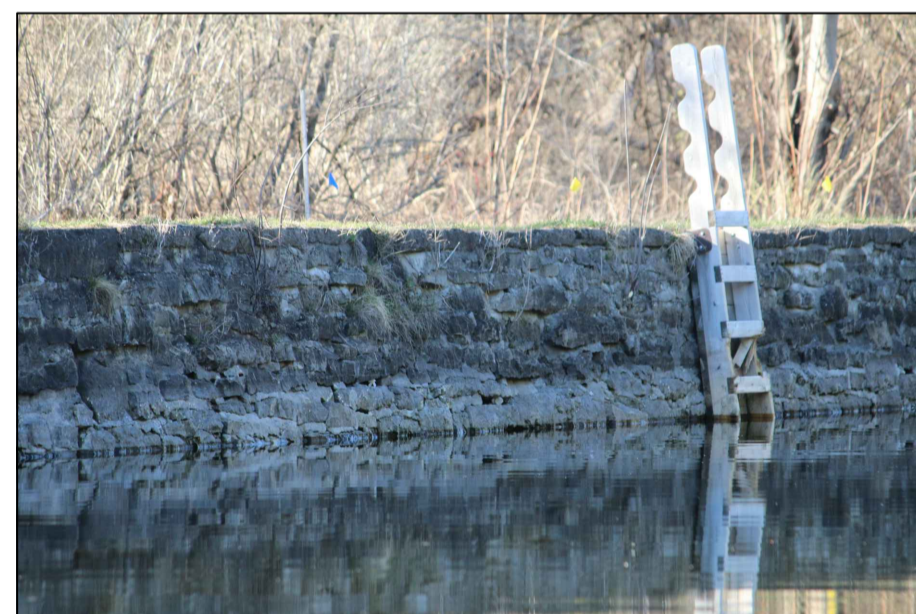
0+180 - 0+175



0+175 - 0+170



0+170 - 0+165



0+165 - 0+160



0+160 - 0+155



0+155 - 0+150



0+150 - 0+145



0+145 - 0+140



0+140 - 0+135



0+135 - 0+130



0+130 - 0+125



0+125 - 0+120



0+120 - 0+115



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B01	AUG 17 2016	ISSUED FOR 100% REVIEW	D.K.	

Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil: **SNC-LAVALIN**

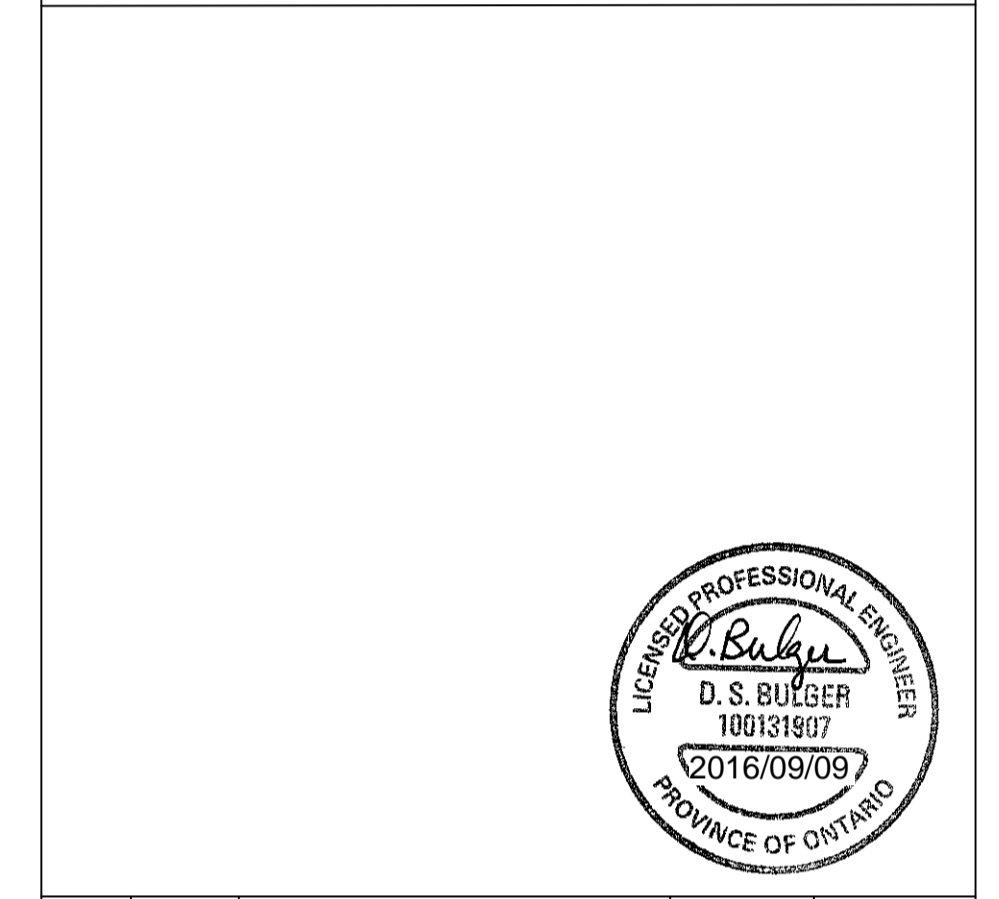
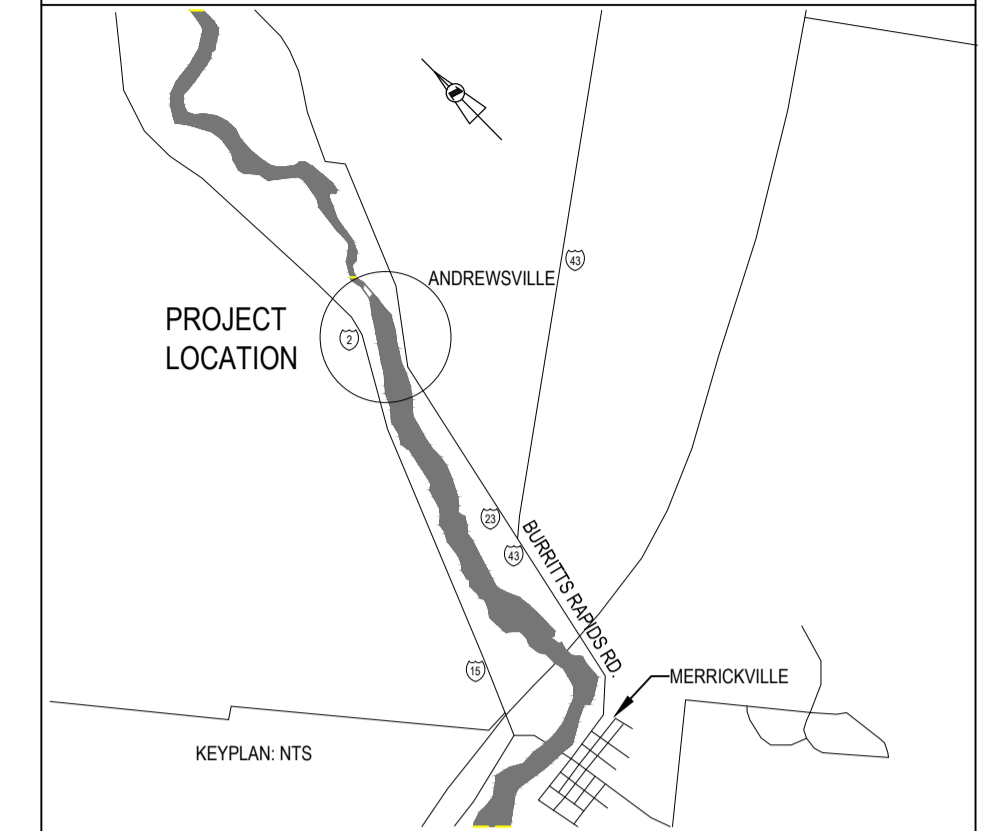
Eng. Stamp / Sceau de l'ingénieur: **D.S. BULGER**

Member of the SNC-LAVALIN Group

Project title / Titre du projet: **UPPER NICHOLSONS EARTH DAM REHABILITATION**

Drawing title / Titre du dessin: **EXISTING CONDITIONS STA. 0+230 TO 0+115**

Designed by / Concept par: D. KING	Date: 2016/05/03
Drawn by / Dessiné par: D. KING	Date: 2016/06/29
Checked by / Vérifié par: D.B.	Date: <i>DB</i>
Project No. / No. du projet: 20034960	Scale / Echelle: [Blank]
Drawing Set No. / No. de série du dessin: <b>S3</b>	



No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
C01	SEP 12 2016	ISSUED FOR TENDER	D.K.	<i>AB</i>
B01	AUG 17 2016	ISSUED FOR 100% REVIEW	D.K.	

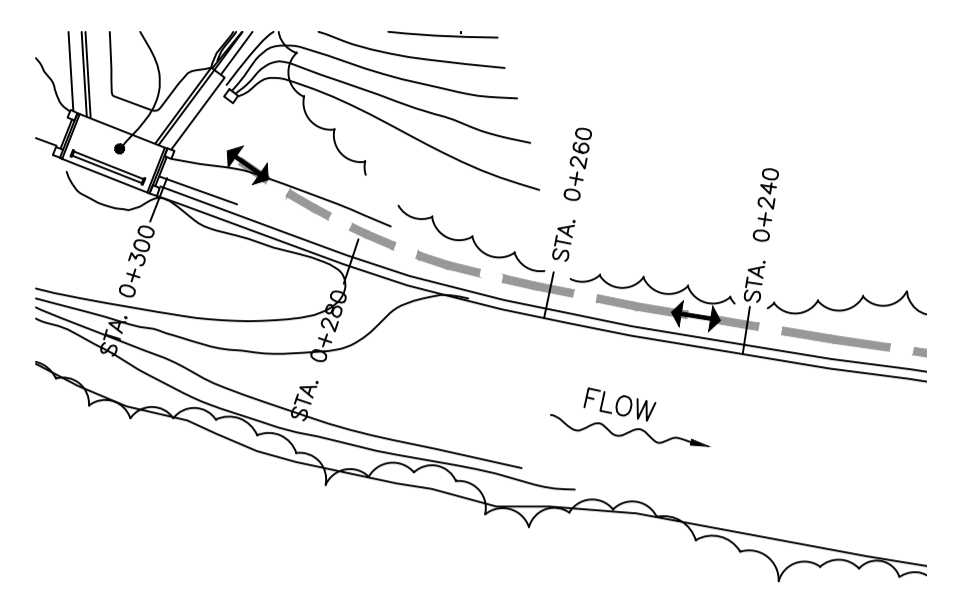
Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Consultant's Name / Nom de l'expert-conseil: **SNC-LAVALIN**  
 Eng. Stamp / Sceau de l'ingénieur: **SNC-LAVALIN Inc.**  
 Halifax, Nova Scotia, Canada  
 Member of the SNC-LAVALIN Group

Project title/Titre du projet: **UPPER NICHOLSONS EARTH DAM REHABILITATION**

Drawing title/Titre du dessin: **EXISTING CONDITIONS STA. 0+300.8 TO 0+230**

Designed by/Concept par: D. KING	Date: 2016/05/03
Drawn by/Designé par: D. KING	Date: 2016/06/29
Checked by/Véifié par: D.B.	Date: <i>D.B.</i>
Project No./No. du projet: 20034960	Scale/Echelle: S3, S4
Drawing Set No./No. de série du dessin: S4	Sheet No./Node la feuille: S4



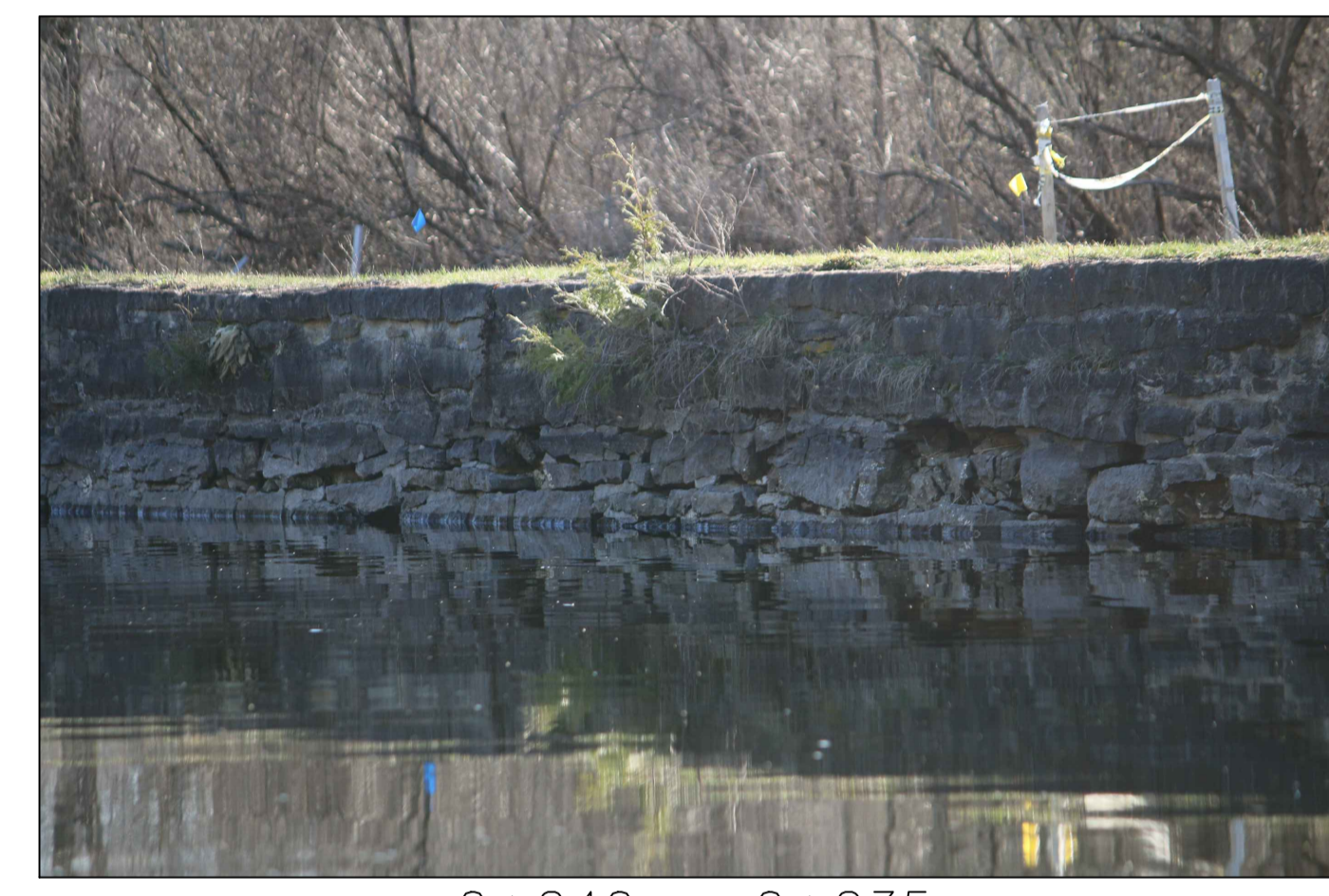
PLAN - STA. 0+230 TO 0+115 (STONE MASONRY WALL)  
SCALE: 1:750



0+300.8 (SPILLWAY) - 0+260



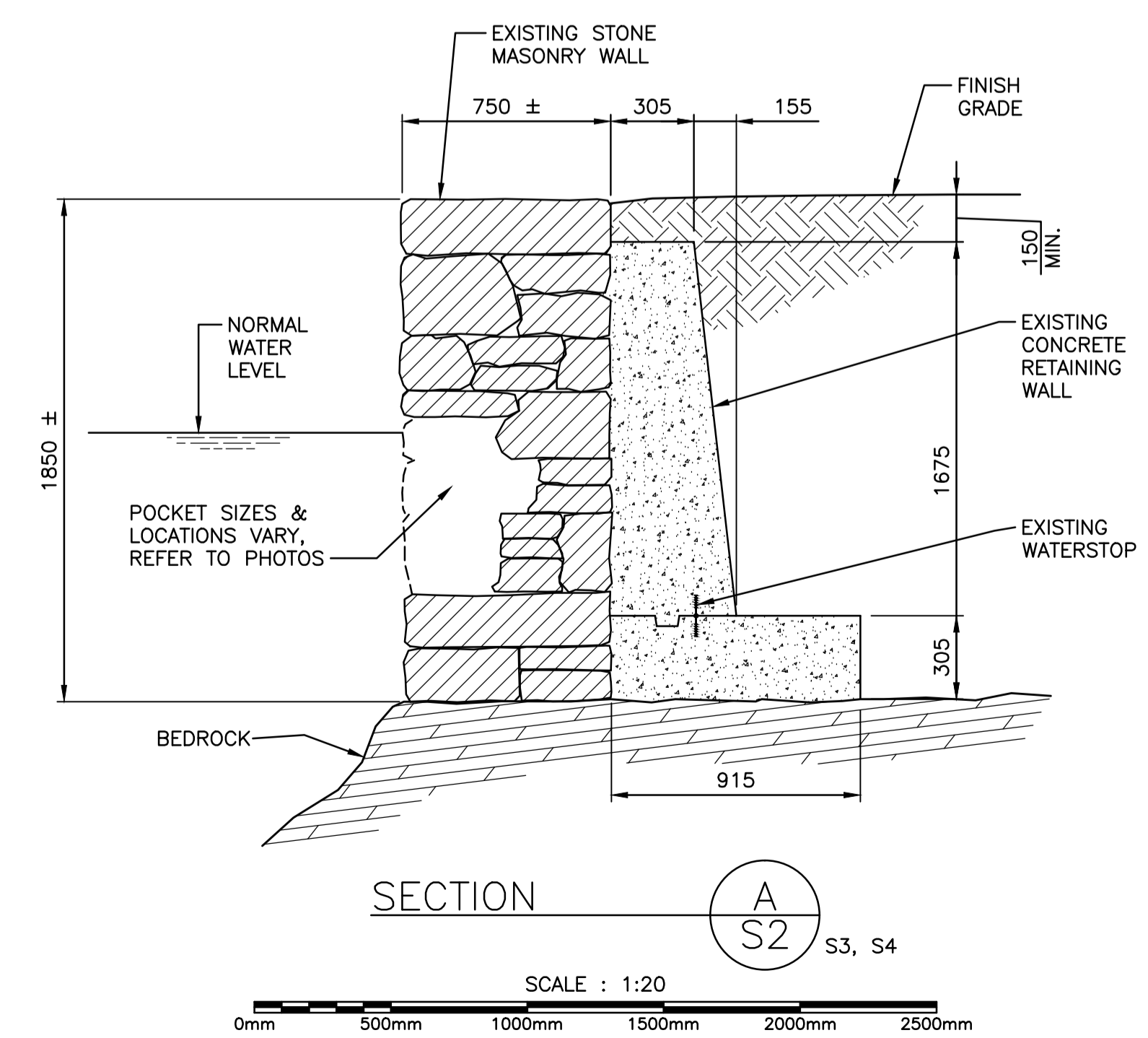
0+260 - 0+250

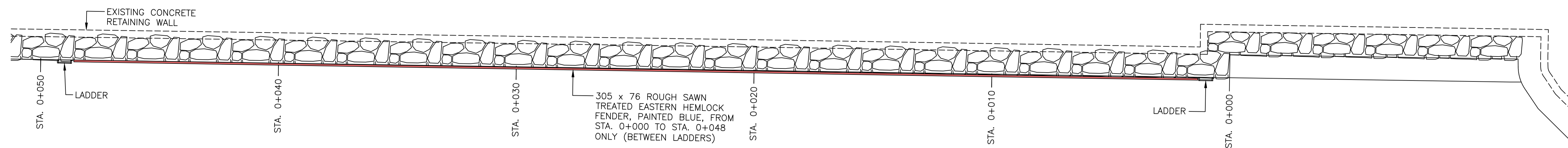
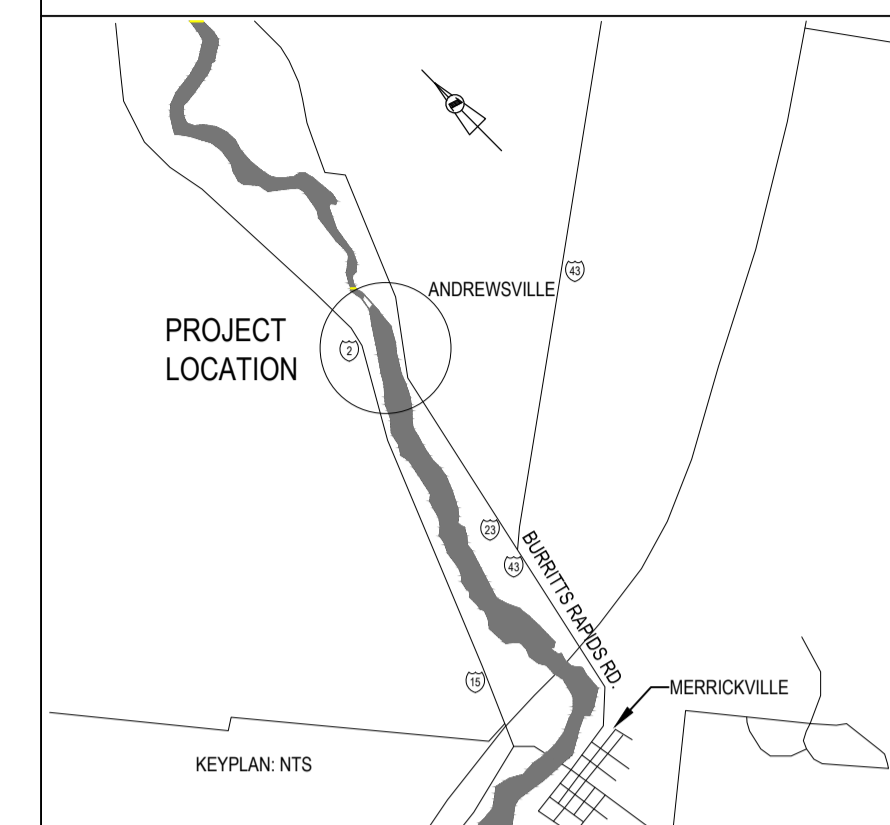


0+240 - 0+235



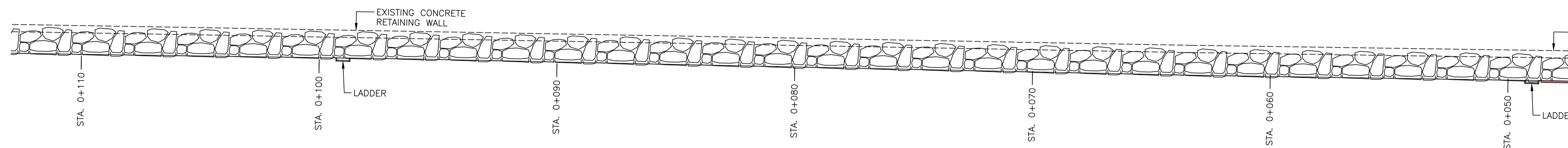
0+250 - 0+240





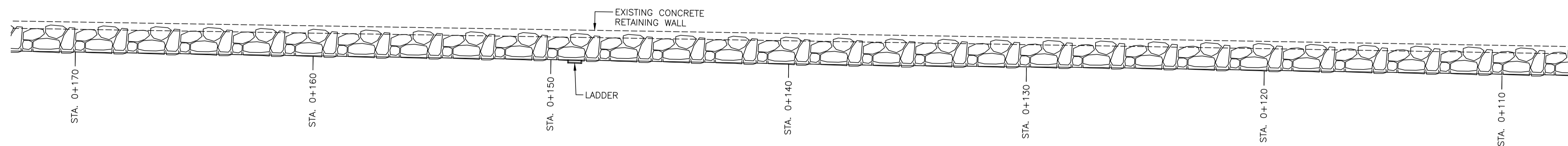
PLAN - STA. 0+050 TO 0+000 (NEW STONE MASONRY WALL)

SCALE : 1:100  
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



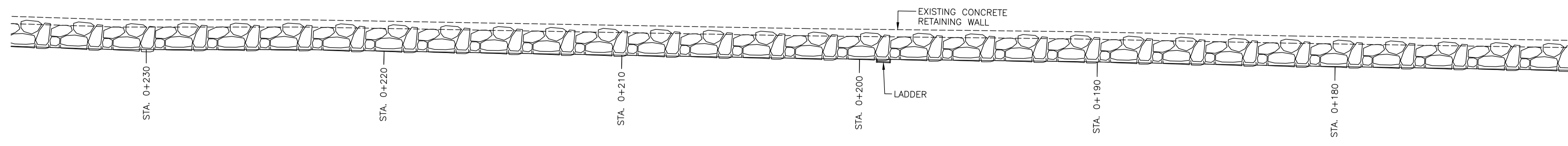
PLAN - STA. 0+110 TO 0+050 (NEW STONE MASONRY WALL)

SCALE : 1:100  
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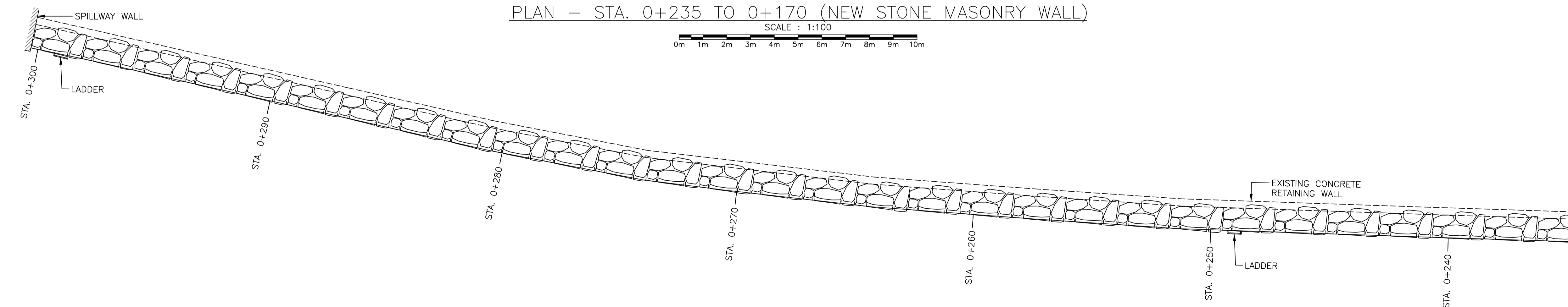
PLAN - STA. 0+170 TO 0+110 (NEW STONE MASONRY WALL)

SCALE : 1:100  
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PLAN - STA. 0+235 TO 0+170 (NEW STONE MASONRY WALL)

SCALE : 1:100  
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



PLAN - STA. 0+300.8 TO 0+235 (NEW STONE MASONRY WALL)

SCALE : 1:100  
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



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C01	SEP 12 2016	ISSUED FOR TENDER	D.K.	<i>DR</i>
B01	AUG 17 2016	ISSUED FOR 100% REVIEW	D.K.	

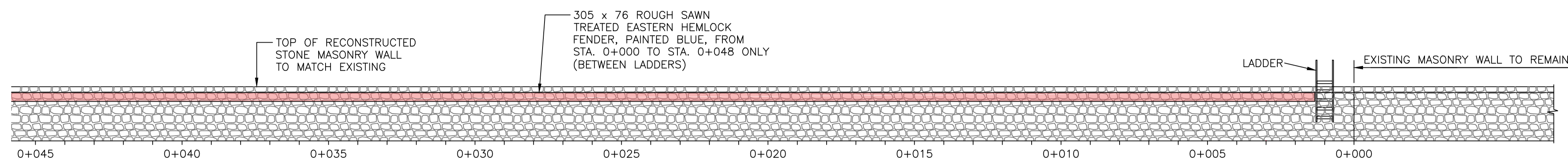
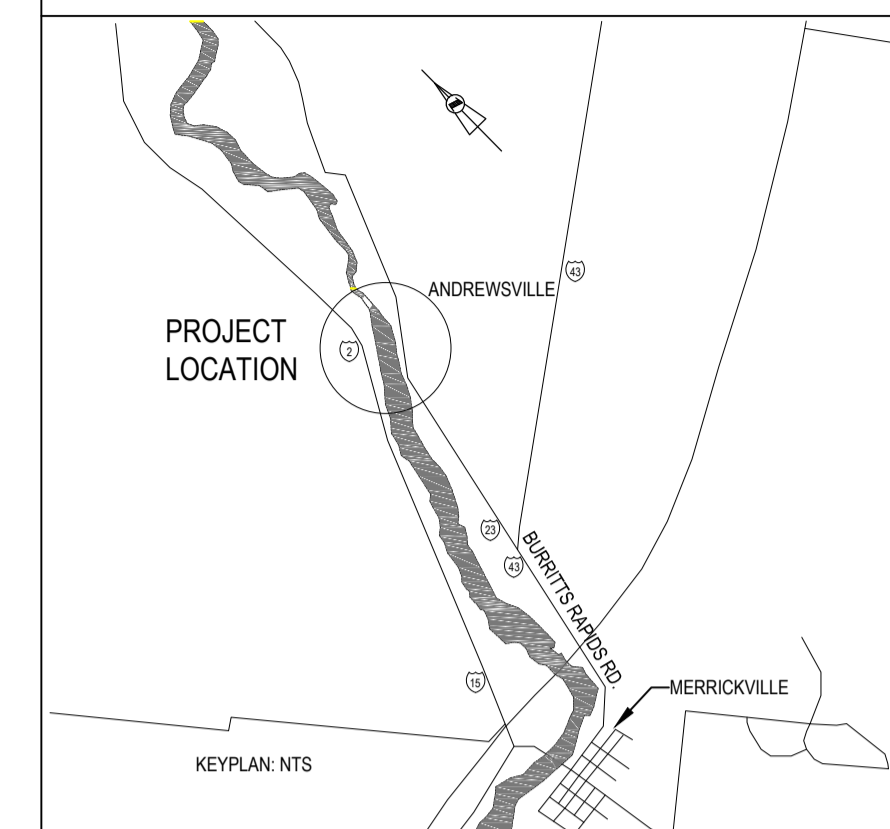
Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
<b>SNC-LAVALIN</b> SNC-LAVALIN Inc. Halifax, Nova Scotia, Canada Member of the SNC-LAVALIN Group	

Project title/Titre du projet  
**UPPER NICHOLSONS  
EARTH DAM REHABILITATION**

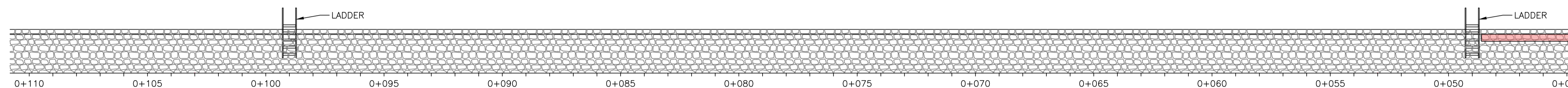
Drawing title/Titre du dessin  
**PLAN  
NEW STONE MASONRY WALL**

Designed by/Concept par D. KING	Date 2016/05/03
Drawn by/Designé par D.B.	Date 2016/06/29
Checked by/Vérifié par D.B.	Date <i>DR</i>
Project No./No. du projet 20034960	Scale/Echelle 1:100
Drawing Set No./No. de série du dessin	Sheet No./ Node la feuille S5



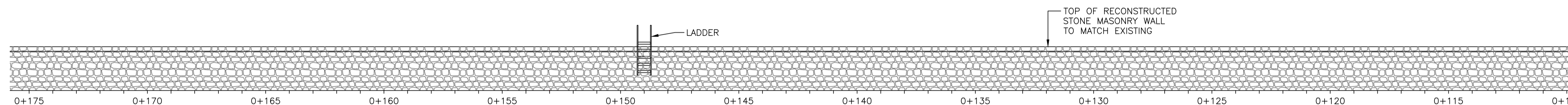
ELEVATION – STA. 0+045 TO 0+000 (NEW STONE MASONRY WALL)

SCALE : 1:100  
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



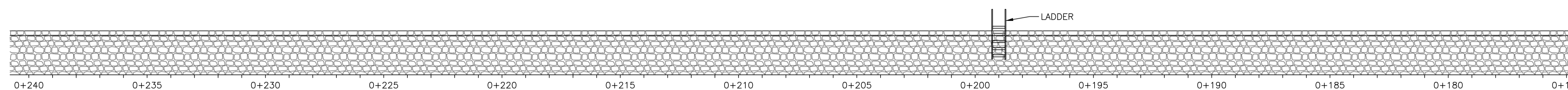
ELEVATION – STA. 0+110 TO 0+045 (NEW STONE MASONRY WALL)

SCALE : 1:100  
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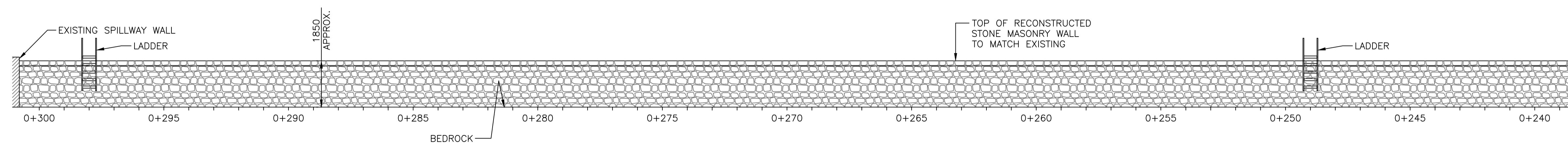
ELEVATION – STA. 0+175 TO 0+110 (NEW STONE MASONRY WALL)

SCALE : 1:100  
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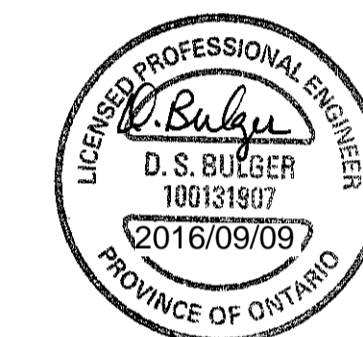
ELEVATION – STA. 0+240 TO 0+175 (NEW STONE MASONRY WALL)

SCALE : 1:100  
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ELEVATION – STA. 0+300.8 TO 0+235 (NEW STONE MASONRY WALL)

SCALE : 1:100  
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



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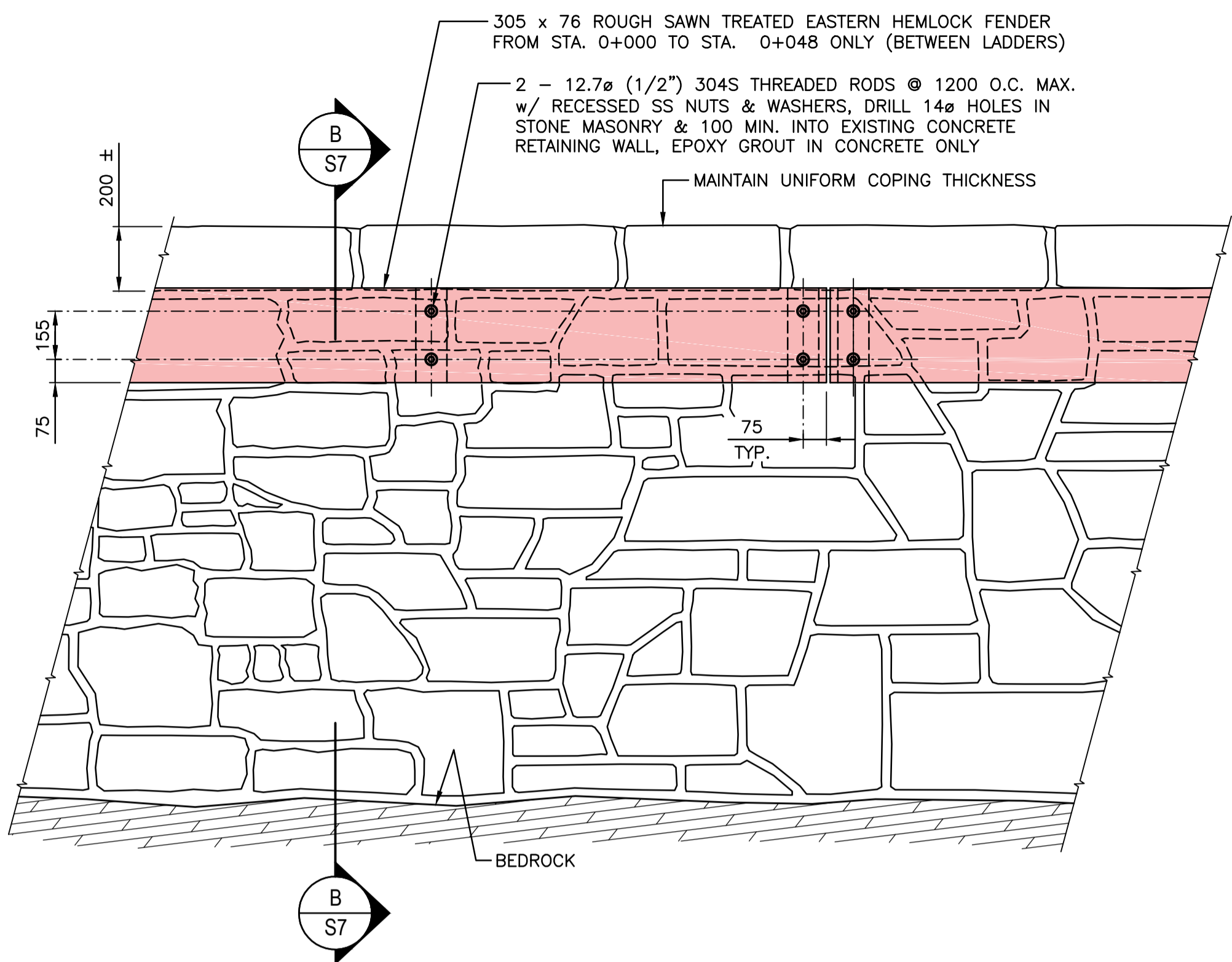
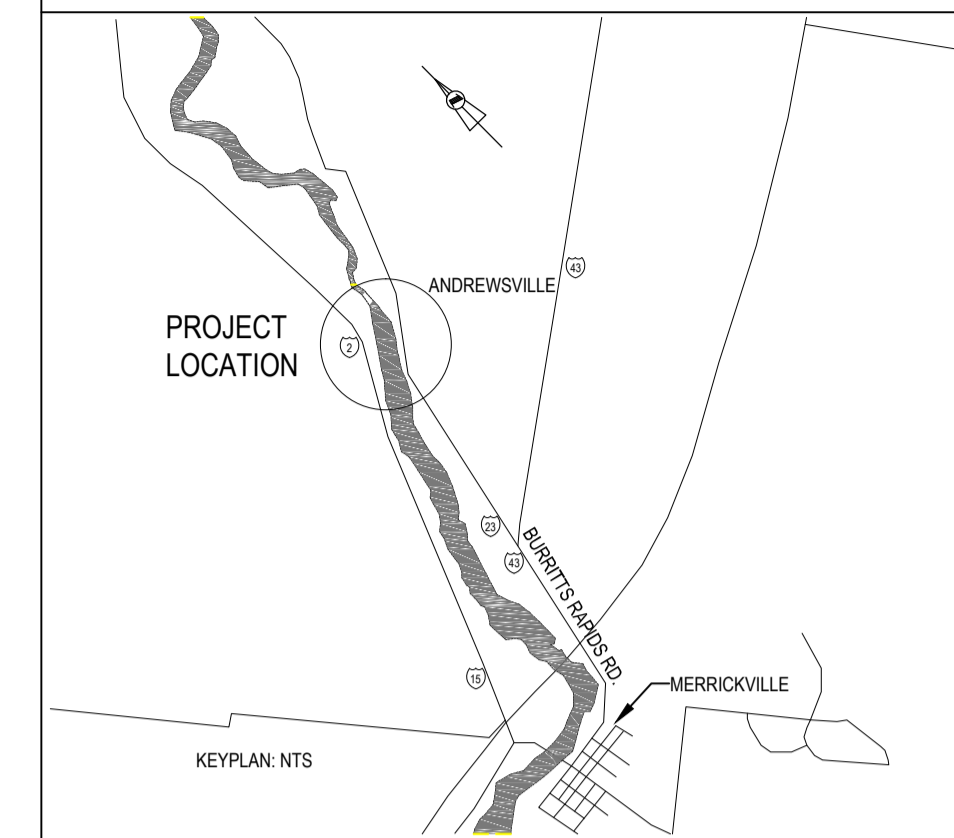
Revision / Revision	
A	Detail number / A Numéro de détail
B	Sheet number / B Numéro de la feuille

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
 <b>SNC-LAVALIN</b> SNC-LAVALIN Inc. Halifax, Nova Scotia, Canada Member of the SNC-LAVALIN Group	

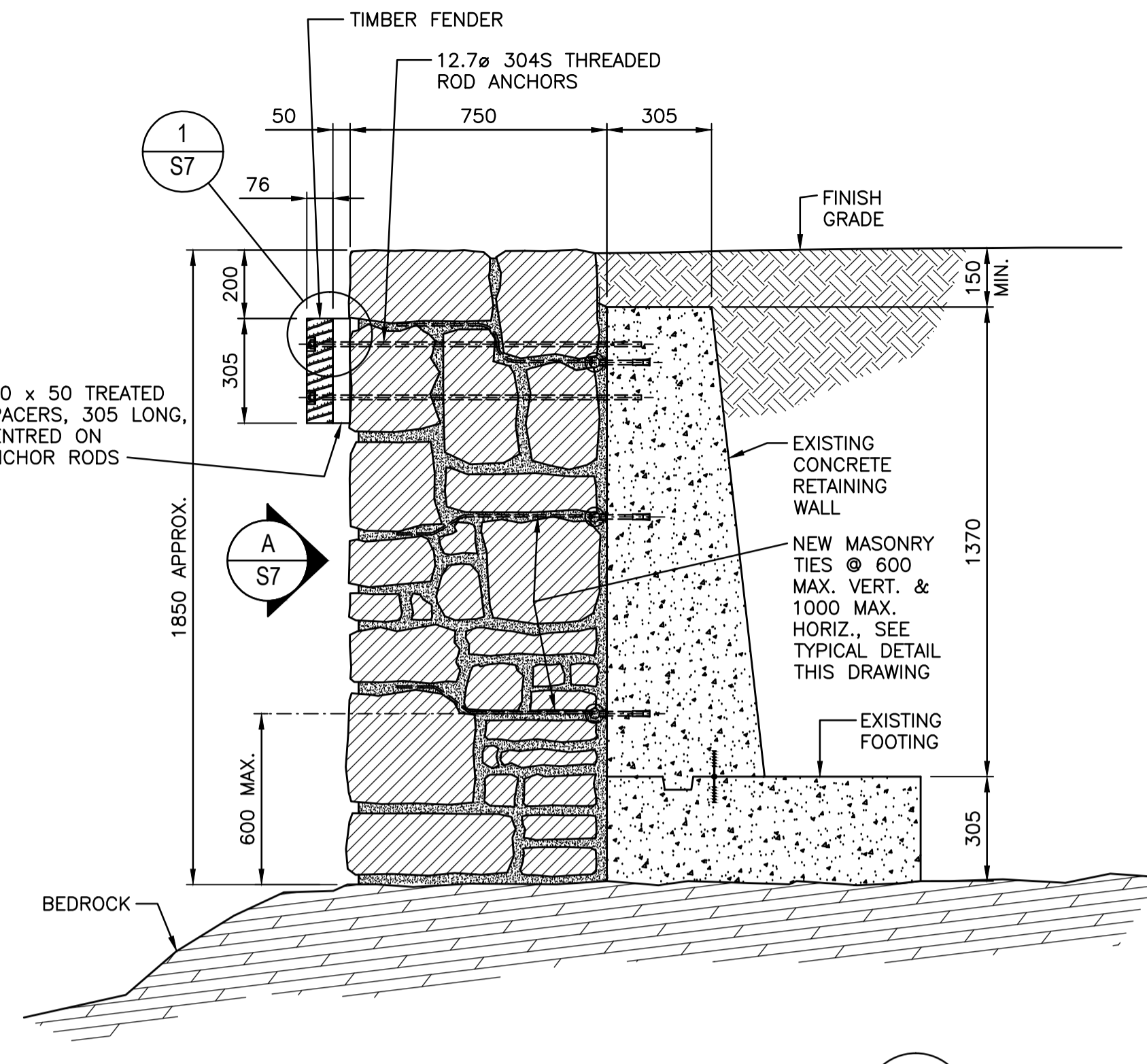
Project title/Titre du projet  
**UPPER NICHOLSONS  
EARTH DAM REHABILITATION**

Drawing title/Titre du dessin  
**ELEVATION  
NEW STONE MASONRY WALL**

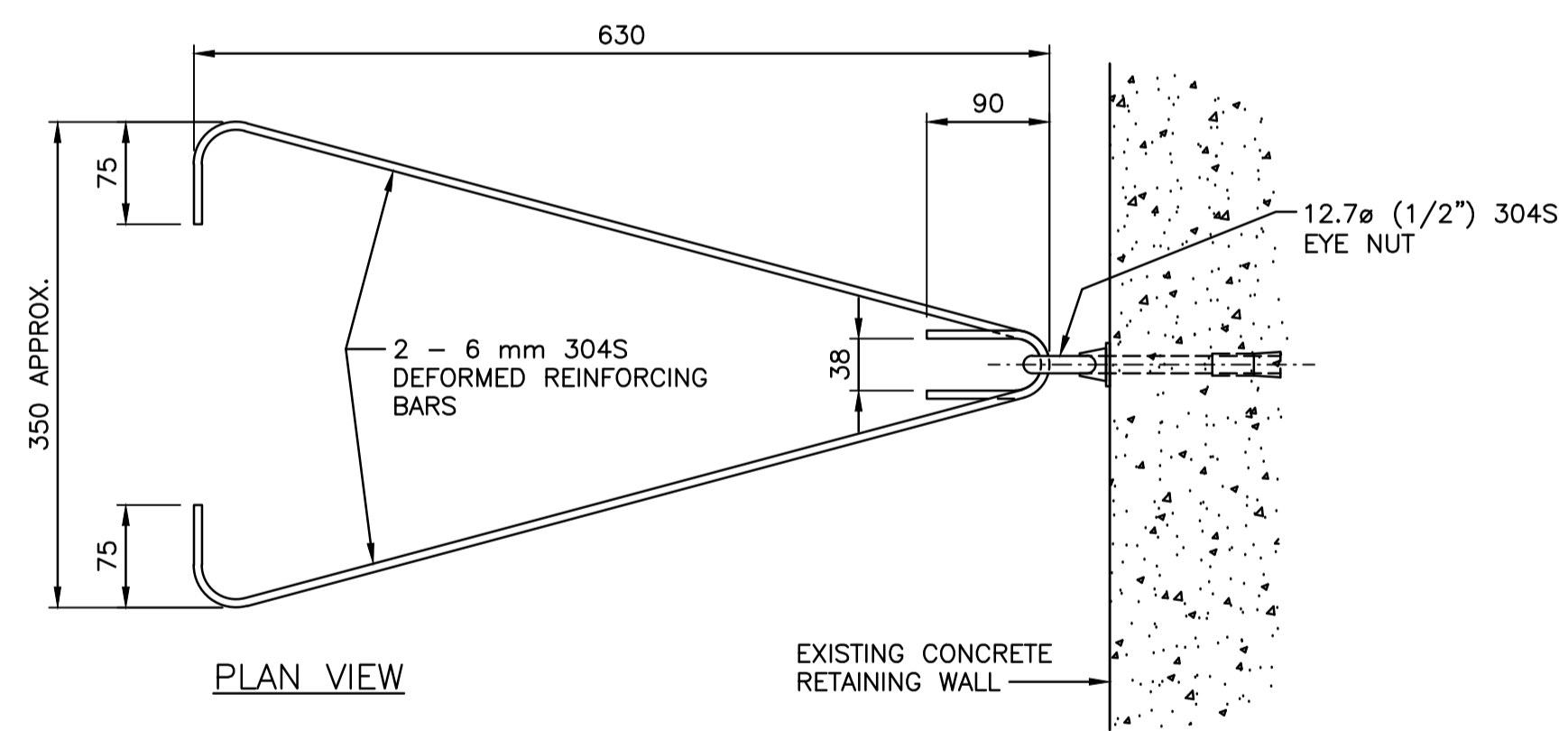
Designed by/Concept par D. KING	Date 2016/05/03
Drawn by/Designé par D. KING	Date 2016/06/29
Checked by/Vérifié par D.B.	Date D.B.
Project No./No. du projet 20034960	Scale/Echelle 1:100
Drawing Set No./No. de série du dessin	Sheet No./ Node la feuille S6



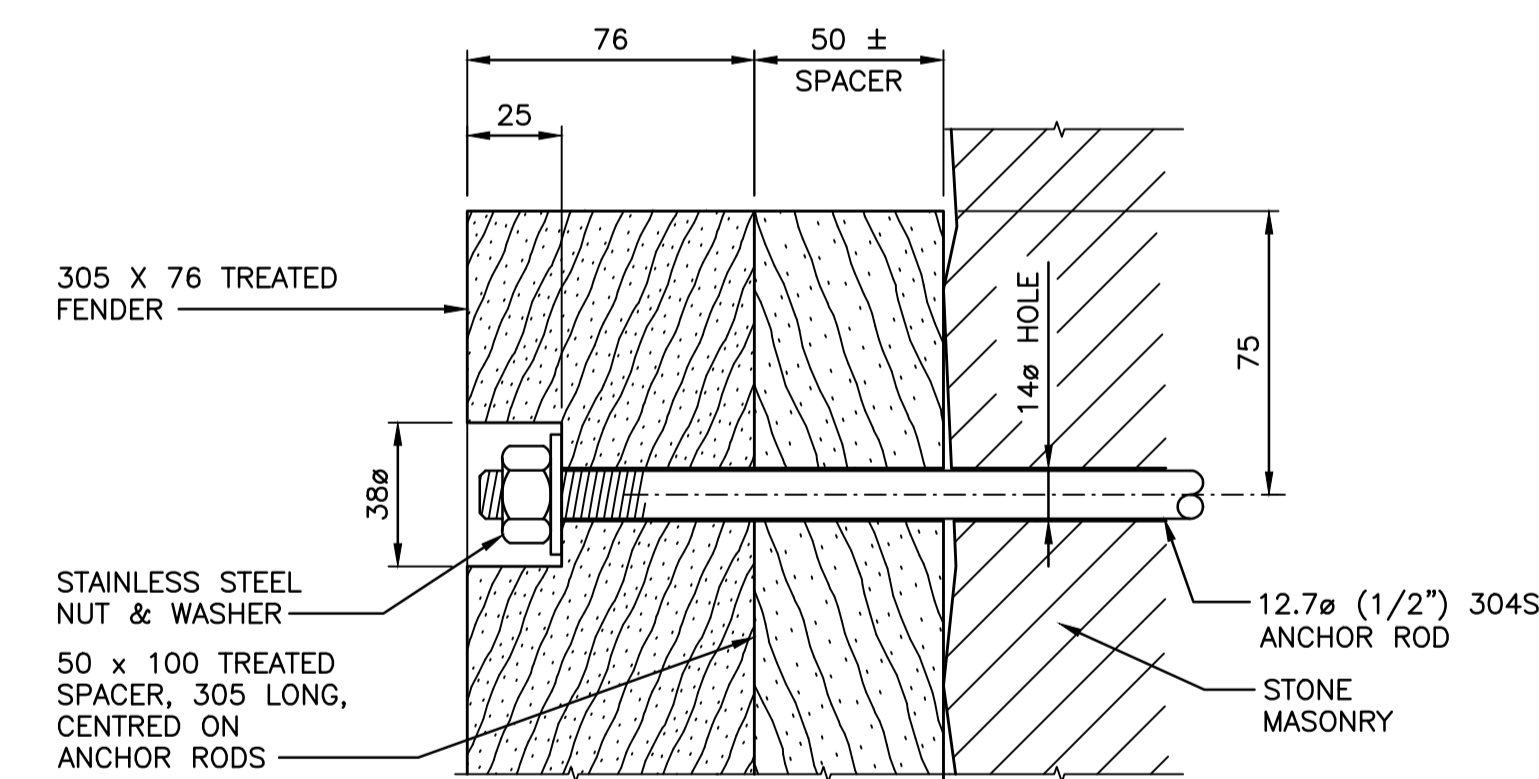
**PARTIAL STONE MASONRY WALL ELEVATION (A S7)**



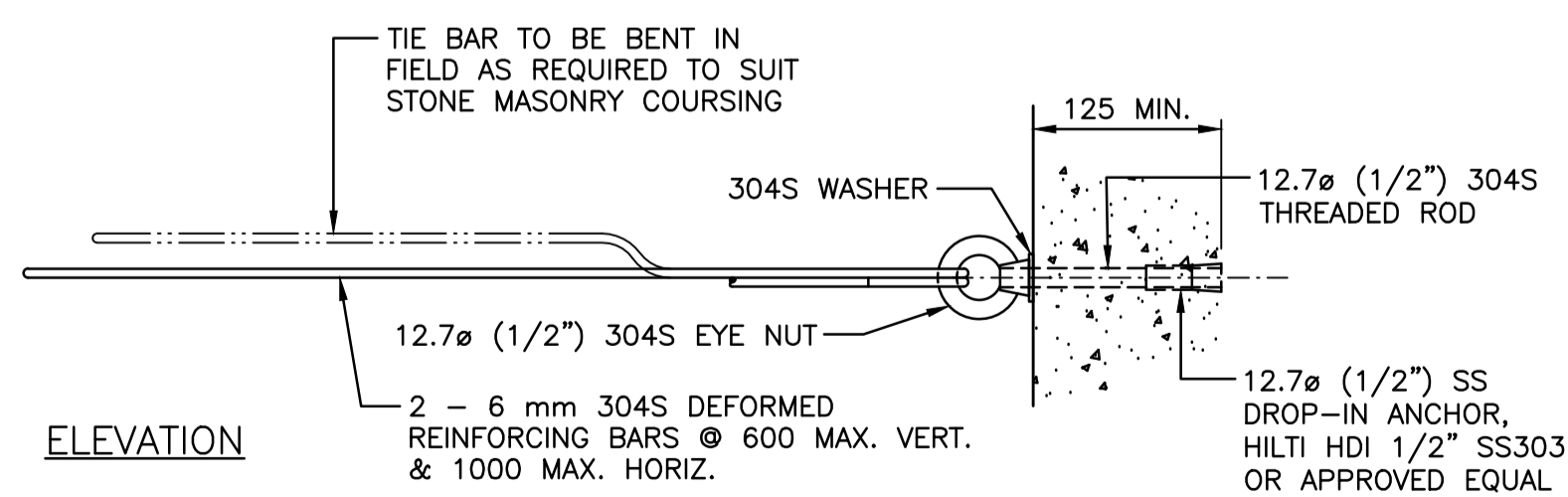
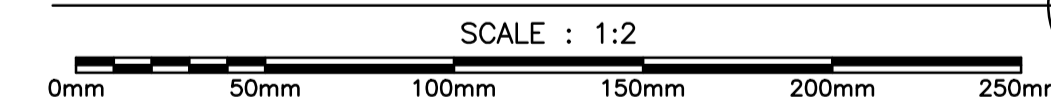
**TYPICAL CANAL WALL SECTION (B S7)**



**PLAN VIEW**

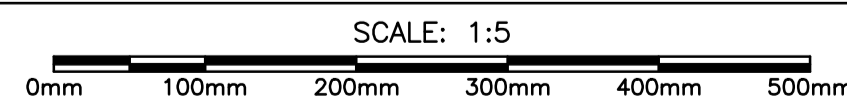


**TYPICAL FENDER ANCHOR DETAIL (1 S7)**



**ELEVATION**

**TYPICAL STONE MASONRY TIE DETAILS**



**GENERAL NOTES**

- ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SET OUT IN THE 2010 NATIONAL BUILDING CODE OF CANADA, ALL APPLICABLE CSA STANDARDS AND SAFETY STANDARDS.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY CODE.
- DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISION COLUMN.
- CONTRACTOR TO REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO CONSTRUCTION FOR PROPER FIT AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- DO NOT SCALE DRAWINGS.
- DIMENSIONS SHOWN ON DRAWINGS ARE IN METRIC UNITS (METRES OR MILLIMETERS).
- CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR THE INTEGRITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR IS TO PROVIDE ADEQUATE TEMPORARY BRACING SYSTEM TO MAINTAIN STRUCTURAL SAFETY, PLUMB AND TRUE ALIGNMENT UNTIL COMPLETION OF WORK.

**NEW STONE MASONRY WALL**

- THE CONTRACTOR SHALL REMOVE THE EXISTING STONE WALL AND RECONSTRUCT IT TO DIMENSIONS SHOWN ON THE DRAWINGS.
- STONES FOR THE NEW WALL SHALL BE ACQUIRED FROM THE WALL BEING REMOVED. THE CONTRACTOR SHALL SUPPLY ADDITIONAL STONES SIMILAR IN APPEARANCE, SIZE AND COMPOSITION TO THOSE IN THE EXISTING WALL, AS NEEDED, TO COMPLETE THE NEW WALL.
- ALL STONE, BOTH REUSED AND SUPPLEMENTAL, SHALL BE CLEAN, SOUND AND FREE OF MORTAR.
- CONSTRUCTION OF STONE MASONRY WALL SHALL BE PERFORMED BY SKILLED MASONS WITH A MINIMUM OF FOUR (4) YEARS EXPERIENCE CONSTRUCTING MASONRY STRUCTURES, PREFERABLY WITH HISTORIC RENOVATIONS. THE CONTRACTOR SHALL PROVIDE THE PARKS CANADA REPRESENTATIVE WITH SPECIFIC DOCUMENTATION OF EACH MASON'S EXPERIENCE.
- THE CONTRACTOR SHALL CAREFULLY DISMANTLE THE EXISTING STONE WALL BEING CAREFUL TO MINIMIZE DAMAGE.
- ALL STONE SHALL BE CLEANED AND OLD MORTAR REMOVED AS APPROVED BY THE PARKS CANADA REPRESENTATIVE PRIOR TO REUSE WITHIN THE RECONSTRUCTED STONE WALL.
- THE CONTRACTOR MAY USE AN APPROVED CLEANING SOLUTION TO CLEAN STONES THAT WILL NOT DAMAGE OR STAIN THEM. THE CLEANING SOLUTION SHALL BE PROPERLY MAINTAINED, NEUTRALIZED AND DISPOSED OF, AND STONES SHALL BE THOROUGHLY WASHED PRIOR TO REUSE.
- ALL EXCESS MATERIAL AND UNUSABLE STONES FROM THE EXISTING WALL SHALL BE DISPOSED OF BY THE CONTRACTOR.
- THE NEW STONE MASONRY WALL SHALL HAVE A UNIFORM WIDTH AND SHALL FOLLOW, AND BE ANCHORED TO, THE EXISTING CONCRETE RETAINING WALL.
- THE TOP OF THE NEW STONE MASONRY WALL SHALL BE UNIFORM AND MATCH EXISTING GRADE.
- ALL STONEMWORK SHALL BE FULLY BEDDED IN TYPE 'S' MORTAR. MORTAR JOINTS IN NEWLY RECONSTRUCTED WALL SHALL BE SIMILAR IN APPEARANCE, INCLUDING COLOUR, AND SHALL BE APPROXIMATELY 30 mm WIDE.
- PRIOR TO THE DISMANTLING OF THE EXISTING WALL, THE SEVEN (7) TIMBER LADDERS SHALL BE REMOVED AND STORED, AND THEN REINSTATED TO NEW WALL AFTER IT IS FULLY CONSTRUCTED. NEW CLIP ANGLES AND ANCHORS SHALL BE PROVIDED TO MATCH EXISTING, AND SHALL BE HOT DIP GALVANIZED.
- NEW 305 x 76 TIMBER FENDER SHALL ROUGH SAWN NO. 1 GRADE EASTERN HEMLOCK, INCISED ACQ TREATED IN ACCORDANCE WITH CAN/CSA 080 SERIES-08.
- ALL STONE MASONRY TIES AND FENDER ANCHOR RODS SHALL BE STAINLESS STEEL AS NOTED ON DRAWINGS.

**CLEANUP AND DISPOSAL**

- THE CONTRACTOR SHALL MAKE GOOD ALL AREAS DISTURBED DURING CONSTRUCTION.
- ALL COMMON BACKFILL SHALL BE COMPACTED TO 100% STANDARD DRY PROCTOR DENSITY.
- ALL DISTURBED GRASS AREAS SHALL BE REPAIRED WITH 100 DEEP TOPSOIL MINIMUM AND COMMERCIAL GRADE "TURFGRASS" NURSERY SOD.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL DEBRIS FROM THE SITE WHEN WORK IS COMPLETE.



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B01	AUG 17 2017	ISSUED FOR 100% REVIEW	D.K.	

Revision / Révision	
A	B
Detail number / Numéro de détail	A
Sheet number / Numéro de la feuille	B

Consultant's Name / Nom de l'expert-conseil	Eng. Stamp / Sceau de l'ingénieur
<b>SNC-LAVALIN</b>	<b>SNC-LAVALIN Inc.</b>
	Halifax, Nova Scotia, Canada
	Member of the SNC-LAVALIN Group

Project Title/Titre du projet  
**UPPER NICHOLSONS EARTH DAM REHABILITATION**

Drawing Title/Titre du dessin  
**SECTIONS, DETAILS & NOTES**

Designed by/Concept par	Date
Drawn by/Designé par	Date
Checked by/Véifié par	Date
Project No./No. du projet	Scale/Echelle
20034960	1:100
Drawing Set No./No. de série du dessin	Sheet No./Node la feuille
	<b>S7</b>