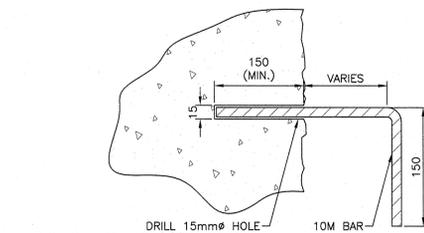
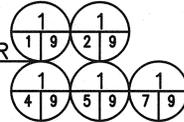


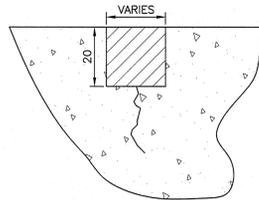
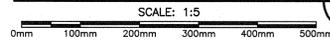
- REMOVE DETERIORATED CONCRETE WITH JACKHAMMER AND CHIPPING HAMMER, OF SIZES INDICATED ON DWG NOTES, TO SOUND CONCRETE. MINIMUM DEPTH OF 50mm OR 100mm BEHIND EXPOSED REINFORCING BARS.
- SANDBLAST EXPOSED REBAR.
- SANDBLAST CONCRETE SUBSTRATE. REMOVE ALL LOOSE AGGREGATE, DIRT, LAITANCE. AIR BLAST TO REMOVE DUST.
- APPLY APPROVED BONDING AGENT TO CLEANED CONCRETE SURFACE AND REBAR. CONCRETE SURFACE IS TO BE SATURATED. SURFACE DRY (SSD) WITH NO STANDING WATER PRIOR TO APPLICATION OF BONDING AGENT.
- APPLY APPROVED HIGH STRENGTH PATCHING MORTAR IN 38mm LIFTS (MAX). APPLY STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TYPICAL WALL/SOFFT DELAMINATION REPAIR



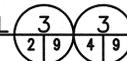
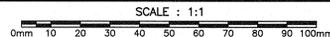
DRILL 15mmØ HOLE
BLOW OUT HOLE TO REMOVE ALL DUST
PRIOR TO APPLICATION OF APPROVED
ADHESIVE. APPLY STRICTLY IN ACCORDANCE
WITH MANUFACTURER'S RECOMMENDATIONS.

TYPICAL ANCHOR DETAIL



- SAW CUT AROUND PERIMETER OF CRACK (20mm MAX).
- AIR BLAST TO REMOVE DUST.
- FILL VOID WITH APPROVED POLYURETHANE SEALANT. APPLY STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TYPICAL CRACK REPAIR DETAIL



CONCRETE REPAIR TABLES

EFFIE'S BROOK BRIDGE CONCRETE REPAIRS

No.	DRAWING No.	DEFECT TYPE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	VOLUME (m ³)
1	1	SPALL	650	250	350	0.057
2	1	SPALL	850	150	100	0.013
3	1	SPALL	2200	150	300	0.099
4	1	SPALL	450	450	300	0.061
5	1	SPALL	4000	500	500	1.000
TOTAL =						1.229

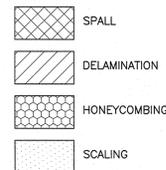
HALFWAY BROOK BRIDGE CONCRETE REPAIRS

No.	DRAWING No.	DEFECT TYPE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	ESTIMATED VOLUME (m ³)
1	4	EXPOSED REBAR	2500	750	150	0.281
2	4	DELAMINATION	2500	750	150	0.281
3	5	DELAMINATION	250	250	150	0.009
4	5	DELAMINATION	750	500	150	0.056
5	5	DELAMINATION	1200	1750	150	0.315
6	5	DELAMINATION	1000	750	150	0.113
7	5	SPALL	550	1000	150	0.083
8	5	DELAMINATION	500	750	150	0.056
9	5	SPALL	1000	1500	150	0.225
10	5	DELAMINATION	750	1500	150	0.169
11	5	SPALL	750	500	150	0.056
12	5	MEDIUM SCALING	1250	1250	150	0.234
13	5	SPALL	750	500	150	0.056
14	5	LIGHT SCALING	1000	750	150	0.113
15	5	DELAMINATION	750	1000	150	0.113
16	5	DELAMINATION	750	1500	150	0.169
17	5	HONEYCOMBING	1250	1000	150	0.188
TOTAL =						2.516

STILL BROOK BRIDGE CONCRETE REPAIRS

No.	DRAWING No.	DEFECT TYPE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	ESTIMATED VOLUME (m ³)
1	7	EXPOSED REBAR	550	1000	150	0.083
2	7	DELAMINATION	550	1000	150	0.083
3	7	DELAMINATION	1500	1000	150	0.225
4	7	DELAMINATION	550	1250	150	0.103
5	7	DELAMINATION	550	1000	150	0.083
6	7	HONEYCOMBING	1500	1000	150	0.225
7	7	HONEYCOMBING	750	1000	150	0.113
TOTAL =						0.913

REPAIR HATCH LEGEND



GENERAL NOTES

- TRAFFIC CONTROL IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS "TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL" LATEST EDITION.
- ERECTION OF SCAFFOLDING AS REQUIRED TO CARRY OUT THE WORK. CONTRACTOR IS TO VISIT THE SITE OF WORK AND MAKE THEIR OWN ASSESSMENT OF SCAFFOLDING REQUIREMENTS PRIOR TO SUBMITTING THEIR BID. SCAFFOLDING TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA. SUBMIT SHOP DRAWINGS OF SCAFFOLDING FOR REVIEW.
- SUPPLY OF ALL MATERIALS, LABOUR AND EQUIPMENT AS REQUIRED TO CARRY OUT THE WORK TO THE FULL SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND THE FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR IS TO ENSURE THAT ALL WORK IS CARRIED OUT IN ACCORDANCE WITH NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.

GENERAL CONCRETE NOTES:

- CONCRETE REPAIR AND REMOVAL TO BE CARRIED OUT IN ACCORDANCE WITH THE NOVA SCOTIA DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STANDARD SPECIFICATIONS, DIVISION 5, SECTION 13. JACK HAMMER AND CHIPPING HAMMER SIZES SHALL CONFORM TO THE SIZES GIVEN IN THAT SECTION. DO NOT ALLOW ANY DEBRIS TO FALL IN THE WATER. ALL CONCRETE DEBRIS IS TO BE COLLECTED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL SITE.
- CONCRETE WORK AND METHODS OF CONSTRUCTION TO CONFORM TO CSA-A23.1-00.
- UNLESS NOTED OTHERWISE, COVER TO ALL REINFORCING STEEL IS TO BE 50mm.
- ALL REINFORCING STEEL, EMBEDDED REINFORCING STEEL, ANCHOR BOLTS, DOWELS, ETC. TO BE SECURED IN POSITION AND INSPECTED BY THE DEPARTMENTAL REPRESENTATIVE BEFORE PLACING CONCRETE.
- CURING: IN ACCORDANCE WITH CAN/CSA A23.1-00. FORMS TO REMAIN IN PLACE FOR A MINIMUM OF 7 DAYS AT A TEMPERATURE OF 10°C.

0	ISSUED FOR TENDER	06/03 2015
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STILL BROOK, EFFIES BROOK, HALFWAY BROOK, AND NORTH ASPY RIVER (NORTH) BRIDGE REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK, NOVA SCOTIA

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GENERAL CONCRETE REPAIR DETAILS

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date JAN. 2, 2015	
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date JUNE 3, 2015	
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approved	approuvé
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Tender	Soumission
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PWGSC Project Manager	Administrateur de projets TPSSC
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