



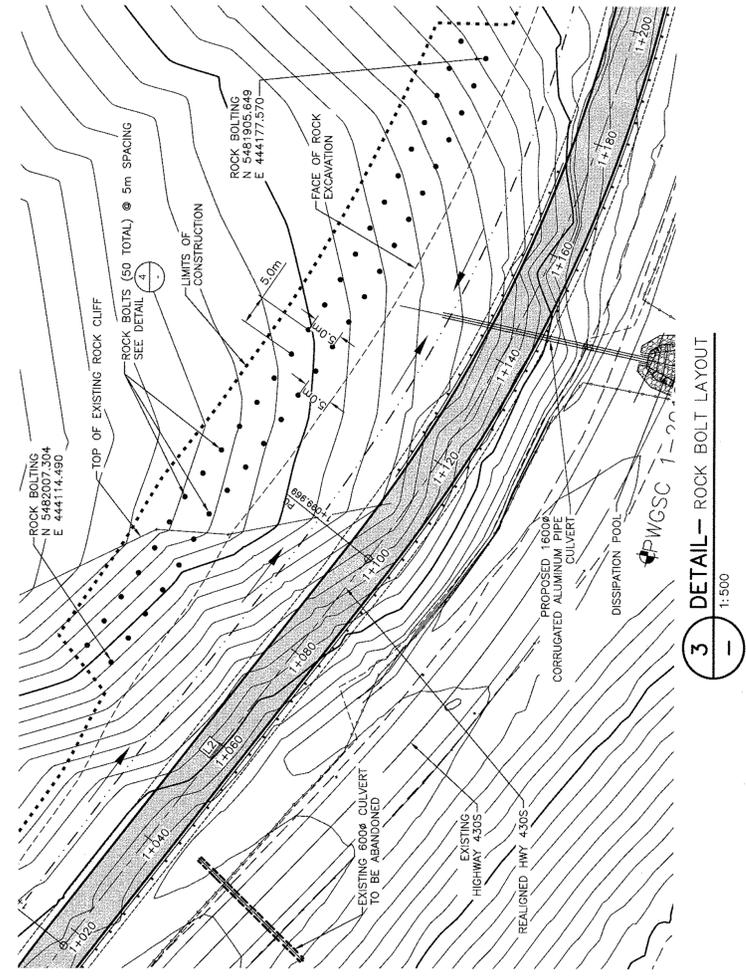
PROVINCE OF NEWFOUNDLAND AND LABRADOR  
**PERMIT HOLDER**  
This Permit Allows  
**CRCL LIMITED**  
To Execute Mechanical Engineering  
in Newfoundland and Labrador  
which is valid for the year 2014.

revisions	date	project
6	FEB 10 2014	ISSUED FOR TENDER
5	JAN 24 2014	REISSUED FOR APPROVAL
4	JAN 10 2014	ISSUED FOR APPROVAL
3	DEC 13 2013	ISSUED FOR 99% DESIGN
2	NOV 08 2013	ISSUED FOR 68% DESIGN
1	OCT 11 2013	ISSUED FOR REVIEW RS-3

designed P.F.  
date AUGUST 2013  
drawn J.P.R.  
checked AUGUST 2013  
approved [Signature] FEBRUARY 2014  
Tender  
PWSSC Project Manager  
project number  
drawing no.

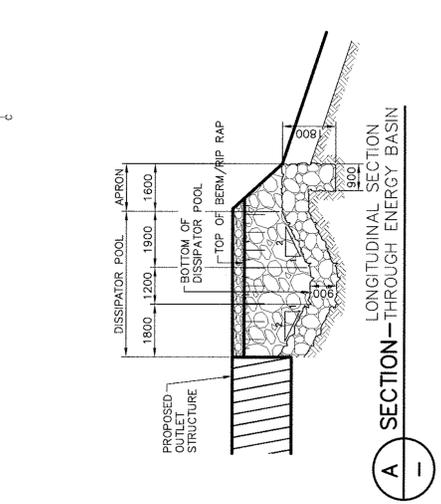
Highway 430  
REALIGNMENT  
DEEP COVE GROS MORNE  
NATIONAL PARK, NL

typical SECTIONS  
MISCELLANEOUS  
DETAILS  
R.062334.001  
C-06  
E-DRAW/00-E-465973

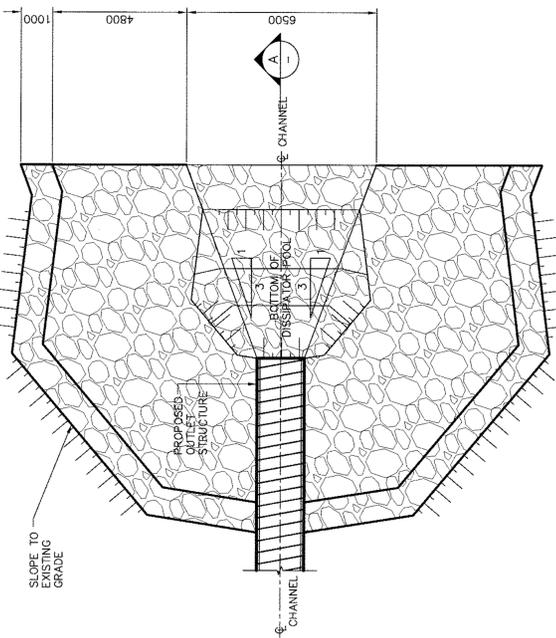


3 DETAIL - ROCK BOLT LAYOUT  
1:500

SUPERELEVATION DATA		
STATION	LEFT LANE	RIGHT LANE
BEGIN TRANSITION C1		
0+778.03	-2.0%	-2.0%
0+792.36	0.0%	-2.0%
0+806.69	-2.0%	-2.0%
0+835.36	6.0%	-6.0%
FULL SUPERELEVATION		
TRANSITION TO C2		
1+002.58	6.0%	-6.0%
1+031.25	2.0%	-2.0%
1+045.58	0.0%	-2.0%
1+058.45	-2.0%	-2.0%
1+071.31	-2.0%	0.0%
1+085.63	-2.0%	2.0%
1+114.30	-6.0%	6.0%
FULL SUPERELEVATION		
END TRANSITION C2		
1+346.99	-6.0%	6.0%
1+377.66	-2.0%	2.0%
1+391.99	-2.0%	0.0%
1+406.32	-2.0%	-2.0%

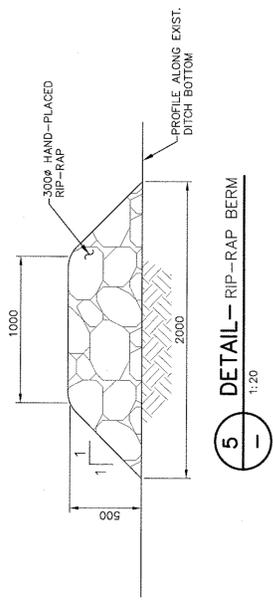


A SECTION - THROUGH ENERGY BASIN  
1:20

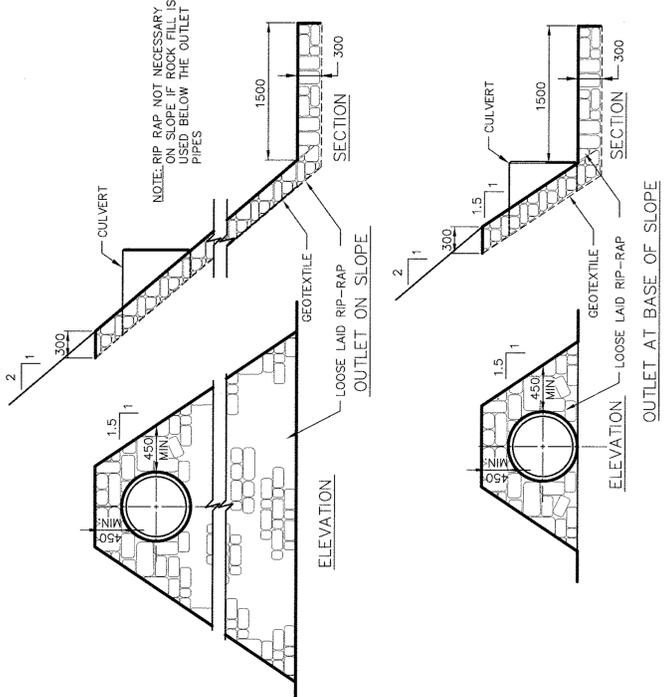


2 DETAIL - DISSIPATION POOL  
1:100

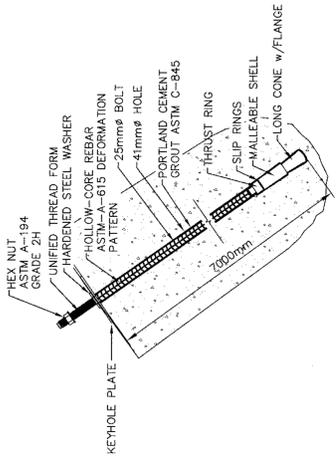
2 DETAIL - RIP-RAP & BERM  
1:100



5 DETAIL - RIP-RAP BERM  
1:20



1 DETAIL - RIP-RAP AT CULVERT ENDS  
N.T.S.



4 DETAIL - ROCK BOLT  
N.T.S.

NOTES:  
1. ROCK BOLTS TO BE INSTALLED PRIOR TO ROCK BLASTING  
2. ROCK BOLTS TO BE INSTALLED AT DIP ANGLE OF 45 DEGREES AND A STRIKE ANGLE OF 045 DEGREES

GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C01