



DOMINCO LTD.
Formerly
 C.M. & S. Co. of Canada Ltd.
ISSUED
 JUN 3 1966
 BY _____
 DESIGN OFFICE

CROSS SECTION ELEVATION

NOTES

1. Concrete to have a compressive strength of 3000 psi at 28 days.
2. Reinforcement and rock anchors to be intermediate grade, deformed bars in accord. with ASTM specs A15 & A305.
3. Rock surface to be thoroughly cleaned and shattered rock removed prior to placing concrete.
4. Rock shatter zone and contact surface between rock and concrete to be pressure grouted with non-shrink grout.

SUMMARY OF STRENGTHS AND STRESSES

Item	Strength or yield point	Allowable unit stress	Actual unit stress	Factor of safety
Concrete - compression	3,000 psi	1,350 psi	910 psi	3.3
• - shear	-	90 psi	15 psi	>6
• - bearing	3,000 psi	750 psi	42 psi	71
Reinforcement - tension	40,000 psi	20,000 psi	7,800 psi	5.1
Rock - bearing	-	*60,000 psi	6,000 psi*	>10

*Estimated minimum based on field reports, and assuming a well grouted shatter zone.

60437

The Consolidated Mining and Smelting Company of Canada Limited			
S-DL-1	DESIGNED BY	DIVISION MINES	REVISED
	CHECKED BY	DEPARTMENT DUNCAN LAKE MINE	NO. BY DATE
	ISSUED TO	SECTION UNDERGROUND	
	BY	JOB TUNNEL BULKHEAD	
		SCALE 1" = 1'-0"	DATE May 31, 1966