## The Canadian Engineer

A weekly paper for Canadian civil engineers and contractors

## Index to Volume 29, July to December, 1915

		SUE		PAGE	ISSU.				PAGE	IS	SUE		PAGE
July 1 1	or Aug	g. 19 .		269	Oct.	7 .			437				
" 8 I		26 .		293	- "	14 .			461	Dec.	2		620
" 22 I	49 Sep	1. 2 .		317		21 .			485	- 11			
" 29 I		16 .		341		28 .			509	- 44			
Aug. 5 2	21 "				"	11 .			533	**	22		077
" 12 2	45 "	30 .		413	"	18 .			581	**			
Berthampton Call											30		725
			No. of the last of		NO. OF THE PERSON	No.							
ARTICLE	26		TITLE				DAG	T man	Manager Tolk				
TITLE		DACE	DREDGES: *Gia	nt — in To	ronto F	Tarbo	PAG		ΓLE				PAGE
ALKALI SOILS: Durability	of Drain Tile	PAGE	DRILLING: See	BORING.					NICIPAL:	Apport	ion	ment of Cost of High	h
in — —	or brain The	221	DRY DOCKS: -	Concrete -	C	onstr	uction. T		way Brid	ges			.0.
									Engineer in	iting S	yste	em at Whitby	. 601
BEAMS: *Design of Rectangul	ar Concrete -	. 138	ELECTROLYSIS	: Mitigation	n of —		4	57	Manitoba -	- Conv	ent	ion	. 373
BLASTING: See EXPLOSIVES	S		ENGINEER(ING	): *Canadi	an En	gine	ers at		- improver	nents	111	(algary	6-0
BORING: Deep - in Canada,	Geological In	-	ipres				south Wall	37 -	- Improver	nents i	n I	Moose Taw	600
vestigation	0.75 11	. 251	Canadian Soci	ety of Civi	Engir	PETS	1 0000000000000000000000000000000000000	04 -	- Improver	nents 1	n	oronto	7.6
Test — Data, Shoal Lake	Aqueduct	. 158	Engineers in I	Municipal A	mairs .		3		Objects of	Propo	sec	Civic Improvemen	nt.
BRIDGE(S) *Bloor Street V	Tiaduct Constr	. 321	Engineers and Manitoba Bran	war	40	7, 4	28, 447, 5	23	League				
Toronto	Donoti.	. 677	*New Five-Plac	e Computer	r. C.I			90	relephone 1	extension	ons	in Saskatchewan	. 526
- Constr. in Saskatchewan		128	Status of the	Engineer			4		FRO HAVES				
*Constr. of Foundations, Bear	r River -	226	lour of West	ern Canada	by E	ngine	ers 6	-6	RKS: *Can.	adian 1	Nat	ional - Development	t. 701
Progress on the New Ouebe	c —	280	EXPLOSIVES:	Coal-Tar P	roducts	TI	sed in	CIL	-ES: Concr	ete —	111	Railway Constr	
Reinforced Concrete		. 626	Making -						Different Se	crions	OT	Sheet Diling	0
*Some Steel Railway Viaduo Canada	cts in Western	247	Electric Blasti Examination o	ng and Lig	gntning	TT.	2	10	Specification	s for	PO	rting Masonry	. 301
Apportionment of Cost of H	Highway	. 182	Examination o	1 — 1e sai	ety in	Use	2	27 PO	WER: Die	sel En	gin	es for Developmen	178
Comparison of — Costs		. 143	FOUNDATIONS	*Constr	-6		D		01				
*Lemieux Island — Design, C	Ottawa	. 720	River Bridg	re	01 —	ior	Bear	*]	cianuy Appi	oximat	100	S for Stream Measure	0
*National Iranscontinental R	ailway	. I40	- for Transm	15Sion Low	ers		TOT T	62 7	ment .				
*Olympic -, Island Park, T Pile and Timber Trestle -	oronto	. 605	General Notes	on			6	77 *	valge wate	T - 1)	0376	ommente	
*Some Eastern —, C.P.R		• 593	Machinery and	Plant on	Concre	te -		70 40	Stave Falls	ient at	Ir	oquois Falls	. IOI
*Unique — Across Panama (	Canal	. 370	FUELS: Coal Fie	elds in the I	Middle	West	t 1	81 *	Thomson-Po	rter N	int	ara — Project	. 454
*World's Largest Reinforced	Concrete Arch	. 461	Coal Tar in E	f Canadian	Industr	ries	2	,	countrations	IOT T	ran	Smission Towers.	
*Estimating Quantities for H	ighway	. 289	Development of Fuel Oil for I	ocomotive	Heat	Bogs	S 2		11 au 5 m 15 5 10	n Line	( ) (	onstruction	+60
			Saskatchewan	Lignite De	velopm	ent.	1	59	oce also H	YDRO-	ELI	ECTRIC and WATE	R
CANAL(S): *Interesting Method		7 ( 10 10 10 10 10 10 10 10 10 10 10 10 10			4.10	-		44	POWER.				
Lock Gates* *Improving Rapide Plat — L	and Entrance	. 446	HARBORS: *C	rib Constr	uction	for	Port						
*Progress on the New Wellan	ock Entrance.		Weller				2	07 KA	ILWAY(S):	Consti	ruci	tion Equipment of -	706
*Vertically vs. Horizontally Fr			HYDRAULIC(S):	Action	of Wa	ter	Under		C.IV.IV. 1 ra	usconti	nen	talline	
CEMENT: *Fineness of -, by			Dams				3	99 *(	Government	of Ale	5, (	C.P.R.	. 376
High-Pressure Steam Test o			*Charts for Sp — Turbines	becine Spee	a and	Dia	m. of						
COLUMNS: *Strength of C			*- Jump in Op	en Channel	Flow		4						
CONCRETE: — in Railway Co			Practice in Hi	igh-head —	Plant	s	I						
*Design of Rectangular — Be			HYDRO-ELECTR	IC: - Tre	atment	of I	Copper						
*Estimating - Quantities			Ores				7		Jecci - VIS	CITICIS	111	Western Canada	
Bridges		. 289	Power Develop Control and P	rotection	edars	Rapi	ds 6		DCAGIODII	RETAIL 177	32	S. & L. W. —	
*- Dam and Steel Sector Wi	ier, Calgary	. 438	*Power Develor	ment at E	ugenia	Fall	15 2						
*Lemieux Island Bridge, Otta			Supplemental I	Power for -	- Plant	S	15 0						
*Olympic Bridge, Island Park Reinforced — Bridges			See also POW	ER and W	ATER	POW	VER.	*I					
*World's Largest Reinforced							THE PERSON						
*Failure of Sea Water			INDUSTRIAL PL						Traction Ou	thit for	FL	ney — Electrincation	1. 197
Durability of - Drain Tile is	n Alkali Soils	. 331	at St. Cath	arines			1						
*Expansion of —		. 384	IRON AND STEE										
*Machinery and Power Plant			for — Demand in Gr	eat Britain	for	Drod	danata 2						
Shrinkage and Time Effects i	n Deinforced	626	Steel Penstock										
Waterproofing — Surfaces	n Remiorced -	161	Otto: I chatock		1		4						
*Read Building Fire, Montrea	al	595	MATERIALS: Fa	ailure of -	- Under	r Re	peated	Ţ	Jse of Pure	Iron 1			. 156
Weight-Volumetric Proportion	ning of Aggre-		Stresses				1					oss Ties, 1914	
gates		259	Holding Power	of Nails			5	19 11 1	OSE: TIE	luencv	COL	- Collection	
*Influence of Temperature on	Strength of -	545	Horse vs. Mot	or Transpo	Sands	of -	567, 6	I II L	MITORGED	GUNG	RE	TE See CONCRETE	
Ingredients of — and their acteristics	Binding Char-	-	Mechanical An Pulpwood in C	anada, tot	A .			O HE	IAINING	VALLS	* *	Dagian of	
CONTRACTORS' Equipment:	Aerial Wire	110	Timber in Can	ada			3	15 10	4 D(0): LIGI	a for	110	hway Engineers	60-
Ropeways		233	METALS: Protec	tive Coating	gs for		3	57 R	ciation of	(x000) -	_ t	le Farming o Water and Rail	4.0
*A Novel Slope Trimming Ma	chine	382	Steel Protected	by Tar P	aint		40	58 U	milorinity ii	1 1)2	tta		
			· Various Uses					L	dir ot. Fa	vement		onstruction ()ttawa	6.0
DAM(S): Action of Water Und	er —	399	MINERALS:	bostos	Ontar	10, 1	914 68	54 E	amonton D	emonst	rat	ion Pavement	262
*Concrete — and Steel Sector *Economical Top Width of No.			Working of Asl	ze Electric	Hoist		45	50 1	ocation and	Gradi	no	of Side Hill -	464
*St. Frances River Storage	on-Overnow	413	Modern Electri	c Mine Loc	comotiv	e	32		aving of S	vs. San	d (	usmon for Brick	732
Kivel Storage -		413		Strate Indian	204517	Mall	3.	BULL OF	, or 9	cets			286
*Economical Top Width of Non-Overflow —. 665 *St. Frances River Storage —													