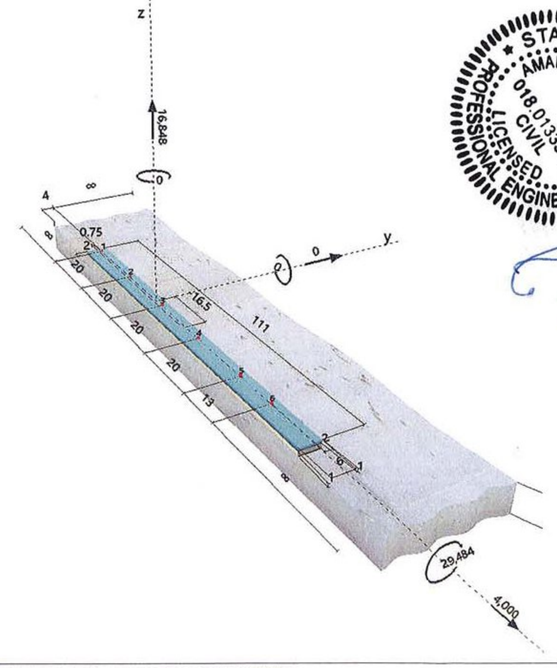
Company:	Waterman Industries	Page:	1
Specifier:	Amanuel Wubneh P.E.	Project:	Renaud Bros,Inc.
Address:	25500 Road 204	Sub-Project I Pos. No.:	RB-17-0351 Rev.1
Phone I Fax:	(800) 331-0808 | (559) 562-8629	Date:	11/7/2017
E-Mail:	amanuel.wubneh@watermanusa.com		

Specifier's comments: verified concrete stregth is 3500 psi.

1 Input data

Anchor type and diameter:	**HIT-RE 500 V3 + HAS-R 316 SS 3/4**
Effective embedment depth:	$h_{ef,act}$ = 14.000 in. ($h_{ef,limit}$ = - in.)
Material:	ASTM F 593
Evaluation Service Report:	ESR-3814
Issued I Valid:	1/1/2017 | 1/1/2019
Proof:	Design method ACI 318-11 / Chem
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 2.00; e_b = 1.000 in.; t = 1.000 in.
	Hilti Grout: CB-G PG (50), precision, $f_{c,Grout}$ = 10443 psi
Anchor plate:	l_x x l_y x t = 111.000 in. x 6.000 in. x 1.000 in.; (Recommended plate thickness: not calculated
Profile:	no profile
Base material:	cracked concrete, , f_c' = 3500 psi; h = 24.000 in., Temp. short/long: 100/110 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present
	edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [lb, in.lb]



11-7-2017

Approved AsNoted

BY:	Ken Upmal
DATE:	11/29/2017
RESUBMIT:	NO
RECEIVED:	November 13, 2017
CKD BY:	DV/BK (Green Int'l.)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROFIS Anchor (c) 2003-2009 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan