Jack Fenny

From: Sent: To: Cc: Subject: Attachments:	Tim Lyons Wednesday, December 28, 2016 3:17 PM Jack Fenny Van Stragand Re: UVA Racks RA-01_3D_03 - Weight and hanger detail.pdf
Jack,	
That will work for us. Plea	se use PO# C6211
Van,	
1. The duct is 10 lb / per 1	ft.
2. Attached is the a piping	g size drawing with weight chart.
3. I am still working on th	e HWS/R attachment in regards to the thermal loading
Please let me know if you h	nave any questions / concerns.
Thank you,	
Tim Lyons	
Mechanical Control Syste	ms 26-B Keewaydin Drive Salem, NH 03079
978.674.7252	
<u>Our Website</u>	
On Wed, Dec 21, 2016 at 4:24	PM, Jack Fenny < <u>jack@fenny.com</u> > wrote:
Tim	
This is the scope as we see it	based on your conversation with Van today.

Design frame components to worst case maximum loads (to be provided). This includes dead weight and seismic loadings.
Size support rods for suspending frame from ceiling based on maximum loading.
Provide recommended seismic support design as required (cabling is customer preferred method)
Provide final design evaluation report
This probably could be completed by Jan 6 th provide will get whatever information is still lacking by sometime next week.
Price: \$2650.00
Jack Fenny, PE
Fenny Engineering Co
(T) <u>941-488-7188</u>
(E) Jack@Fenny.com
From: Tim Lyons [mailto:tlyonsp@gmail.com] Sent: Tuesday, December 20, 2016 1:46 PM To: Jack Fenny < jack@fenny.com >; Van Stragand < Van@fenny.com > Subject: UVA Racks
Jack,
Can you send me pricing and lead time for the design of the attached frame?
We'll need to include the follow:

1.	Frame desi	gn for DL and Seismic Load	
2.	Minimum T	hreaded Rod sizing (Rod at 6' in length)	
		does not want angles. The angles in the drawing were added conceptually. The ninimize the angle if possible.	У
4.	Seismic De	esign Criteria Below:	
	F.	SEISMIC DESIGN CRITERIA	
	a.	1. THE STRUCTURE AND COMPONENTS OF THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH AFOREMENTIONED BUILDING CODE WITH THE FOLLOWING CRITERIA: a. 0.2 SEC. SPECTRAL ACCELERATION (SS) (%G): 0.209 b. 1 SEC. SPECTRAL ACCELERATION (S1) (%G): 0.069 c. SITE CLASS: C d. SITE COEFFICIENT, SHORT PERIOD (FA): 1.2 e. SITE COEFFICIENT, 1 SEC. PERIOD (FV): 1.7 f. 0.2 SEC SPECTRAL RESPONSE COEFF. (SDS) (%G): 0.167 g. 1 SEC SPECTRAL RESPONSE COEFF. (SD1) (%G): 0.078 h. DESIGN SEISMIC BASE SHEAR (KIPS): 1317 K i. PLAN STRUCTURAL IRREGULARITY TYPE: EXTREME TORSIONAL j. VERTICAL STRUCTURAL IRREGULARITY TYPE: NONE k. ANALYTICAL PROCEDURE: EQUIVALENT LATERAL FORCE I. LATERAL SYSTEM: ORDINARY REINFORCED CONCRETE SHEARWALLS AMBULANCE CANOPY/ROOF: ORDINARY MOMENT FRAMES M. RESPONSE MODIFICATION FACTOR, R=4 & R=3.5 (CANOPY/ROOF) n. SYSTEM OVERSTRENGTH FACTOR, OMEGA = 2.5 & R=3 (CANOPY/ROOF) p. RISK CATEGORY = IV q. OCCUPANCY IMPORTANCE FACTOR, I = 1.5 r. SEISMIC DESIGN CATEGORY = C	
Ple	ease let me	know if you have any questions or concerns.	
Th	nank you,		

Tim Lyons

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