UNIVERSITY OF HAWAI'I	**AMENDMENT OF SOLICITATION**	PAGE 1 of 6

1. AMENDMENT NO.

   2

2. EFFECTIVE DATE

   March 3, 2020

3. INVITATION FOR BIDS (IFB) NO. 20-0136 Dated FEBRUARY, 2020

   Furnish, Deliver and Install Enersys DataSafe Battery Modules, University of Hawaii, Honolulu, Hawaii.

4. ISSUED BY
   Interim Director, Office of Procurement Management
   1400 Lower Campus Road, Room 15
   Honolulu Hawaii 96822 BUYER: L. Kimura-Rita

5. The IFB referenced above is amended as set forth in block 6. The hour and date for receipt of offers ☐ is extended ■ is not extended. This amendment is attached to HIePRO solicitation **B20001268** and is made apart of the subject IFB by reference.

6. DESCRIPTION OF AMENDMENT

1. The following are Questions, Requests for Clarification and University Responses for the subject IFB:

   a) What is the exact address on the Island Oahu where the batteries will be shipping to?

   University Response: University of Hawaii, Information Technology Center, 2520 Correa Road, Honolulu, Hawaii 96822.

   b) The bid request installation. What is the UPS MFG, Model and kva size of the UPS the batteries are to be installed in?

   University Response: Eaton 9395 UPS, 750 KVA.

   c) We would like to determine if we need a lift for the batteries, and what size we would need based on the location of the UPS's and doorways.

   University Response: See **ATTACHMENT 1** and **ATTACHMENT 2** for battery cabinet dimensions and for path of access floor plans.

2. The following information is hereby incorporated into the IFB:

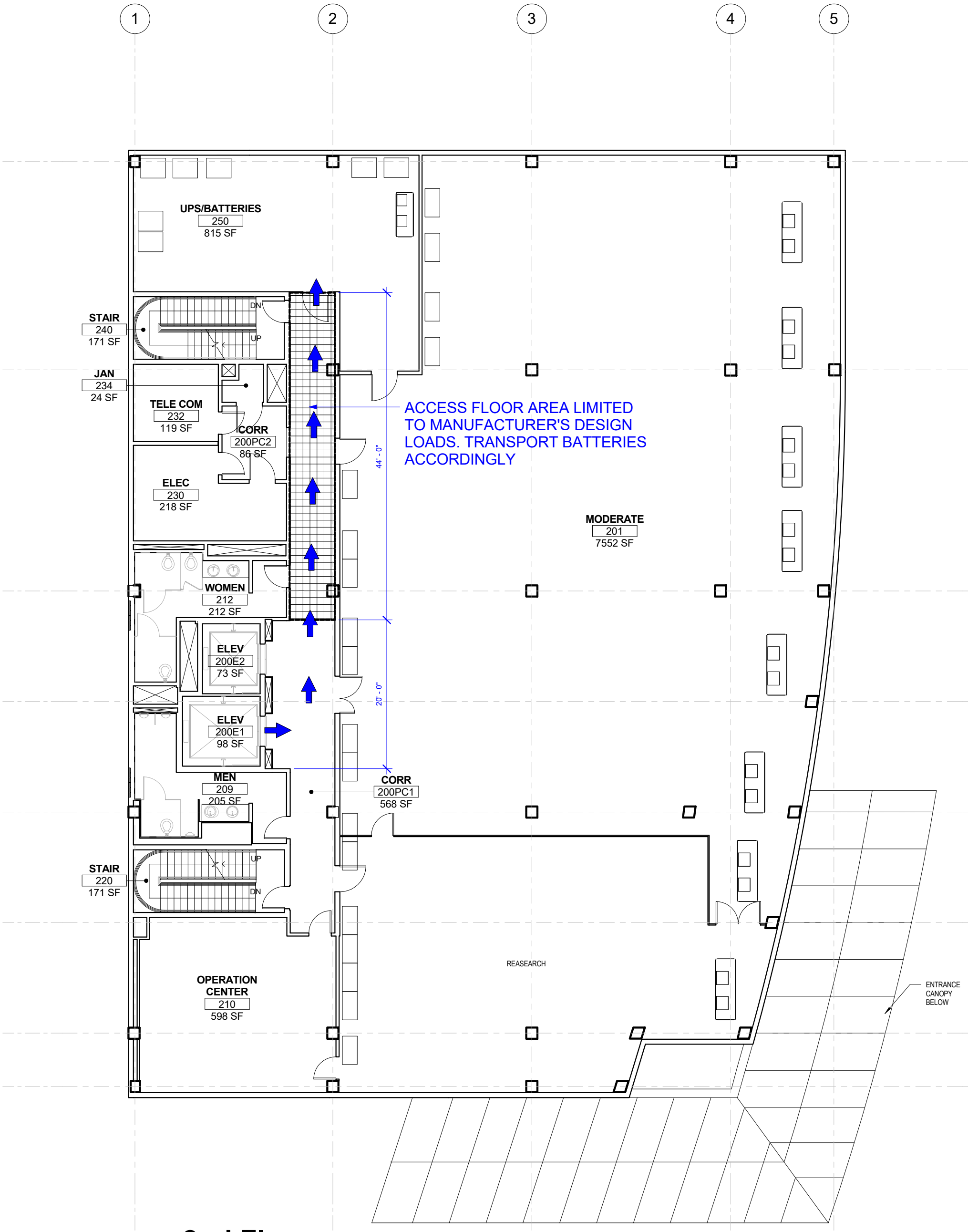
   a) Portions of the floor leading to the 2nd floor UPS room are access flooring systems with limited loading capacity. **ATTACHMENT 3** maps location of access flooring and provides loading information for coordination with **ATTACHMENT 1**.

   b) **ATTACHMENT 4** provides loading dock information.

EXCEPT AS PROVIDED HEREIN, ALL TERMS AND CONDITIONS OF THE DOCUMENT REFERENCED IN BLOCK 3 UNLESS HERETOFORE AMENDED, REMAIN UNCHANGED.

ATTACHMENT 1

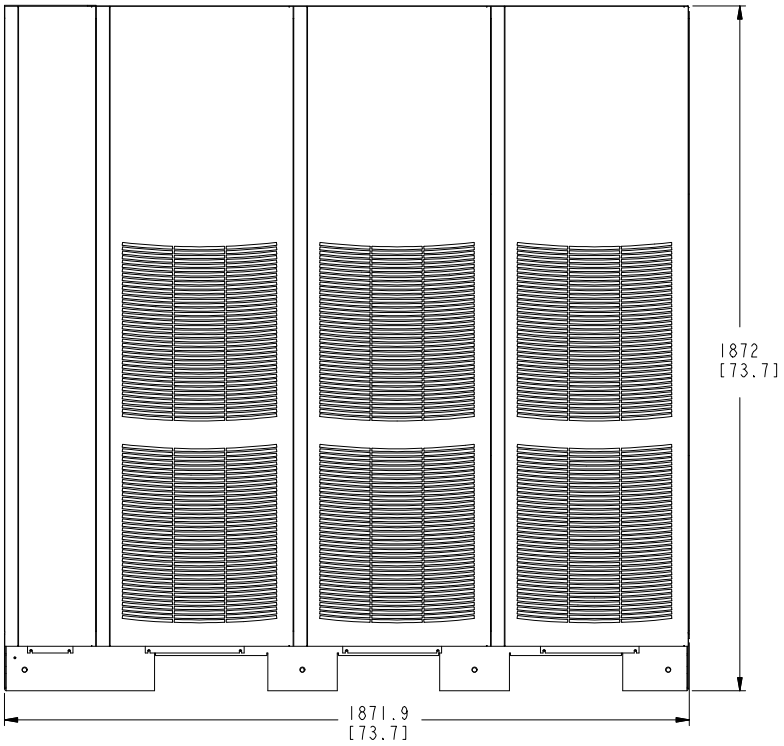
1st Floor


1
2
3
4
5
UPS/BATTERIES
250
815 SF
STAIR
240
171 SF
DN
UP
JAN
234
24 SF
TELE COM
232
119 SF
CORR
200PC2
86 SF
ELEC
230
218 SF
ACCESS FLOOR AREA LIMITED TO MANUFACTURER'S DESIGN LOADS. TRANSPORT BATTERIES ACCORDINGLY
44' - 0"
MODERATE
201
7552 SF
WOMEN
212
212 SF
ELEV
200E2
73 SF
ELEV
200E1
98 SF
20' - 0"
MEN
209
205 SF
CORR
200PC1
568 SF
STAIR
220
171 SF
UP
DN
OPERATION CENTER
210
598 SF
REASEARCH
ENTRANCE CANOPY BELOW

2nd Floor

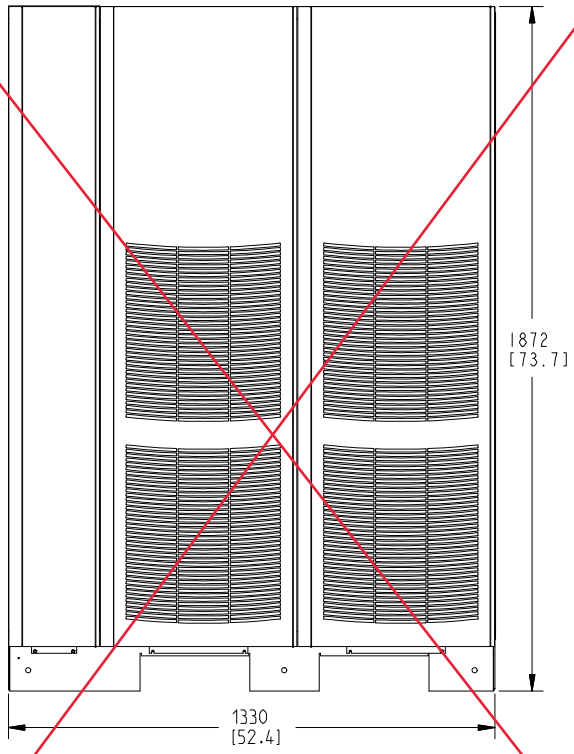
ATTACHMENT 2

UPS INSTALLATION PLAN AND UNPACKING



Dimensions are in millimeters [inches].

Figure 3-5. UPM Section Dimensions – Three UPM (Front View)



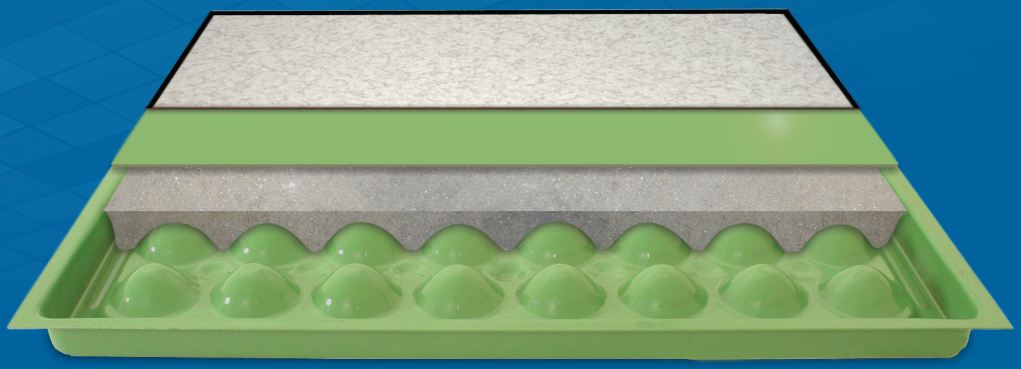
Dimensions are in millimeters [inches].

Figure 3-6. UPM Section Dimensions – Two UPM (Front View)

FS-Series

Filled Steel Panels

The most specified product for data center applications, with 6 different load ratings.



ASM's Enviro Panel:
Up to 3,000 lbf
design load /
10,000 lbf Ultimate load

FS-Series Performance Guide

PANEL	CONCENTRATED DESIGN LOADS (lbf)	(kN)	SAFETY FACTOR MIN.2x	ULTIMATE LOADS (lbf)	(kN)	UNIFORM LOADS (psf)	kg/m²	IMPACT LOADS (lb)	(kg)	ROLLING LOADS 10 PASS (lb)	(kg)	10K PASS (lb)	(kg)
FS100	1000	4.45	PASS	3300	14.68	500	2240	175	79	900	408	700	310
FS200	1250	5.56	PASS	3900	17.35	600	2928	175	79	1150	522	900	408
FS300	1500	6.67	PASS	5400	24.02	700	3416	175	79	1300	590	1100	499
FS400	2000	8.90	PASS	6300	28.02	800	3904	200	91	1600	726	1300	590
FS500	2500	11.12	PASS	7000	31.14	900	4393	200	91	2200	998	2000	907
FS600	3000	13.34	PASS	10000	44.48	1000	4881	400	181	3000	1361	3000	1361

ASM is proud to lead the industry with our steel panel design, by developing the first 3,000 lbf. rated cementitious filled welded steel panel. We have engineered the FS600 to support a 3,000 lbf. design load with rolling loads in excess of 3,000 lbf. when tested per CISCA.

ATTACHMENT 4