Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246

NATIONAL TAB

Comfort. Under control.

Report: **Test Full**
Function: **Test, Adjust, & Balance**
Date: **04/26/2023**

PROJECT

CW 2999 - UTSW (DALLAS, TX)

Cypress Waters

Dallas, TX

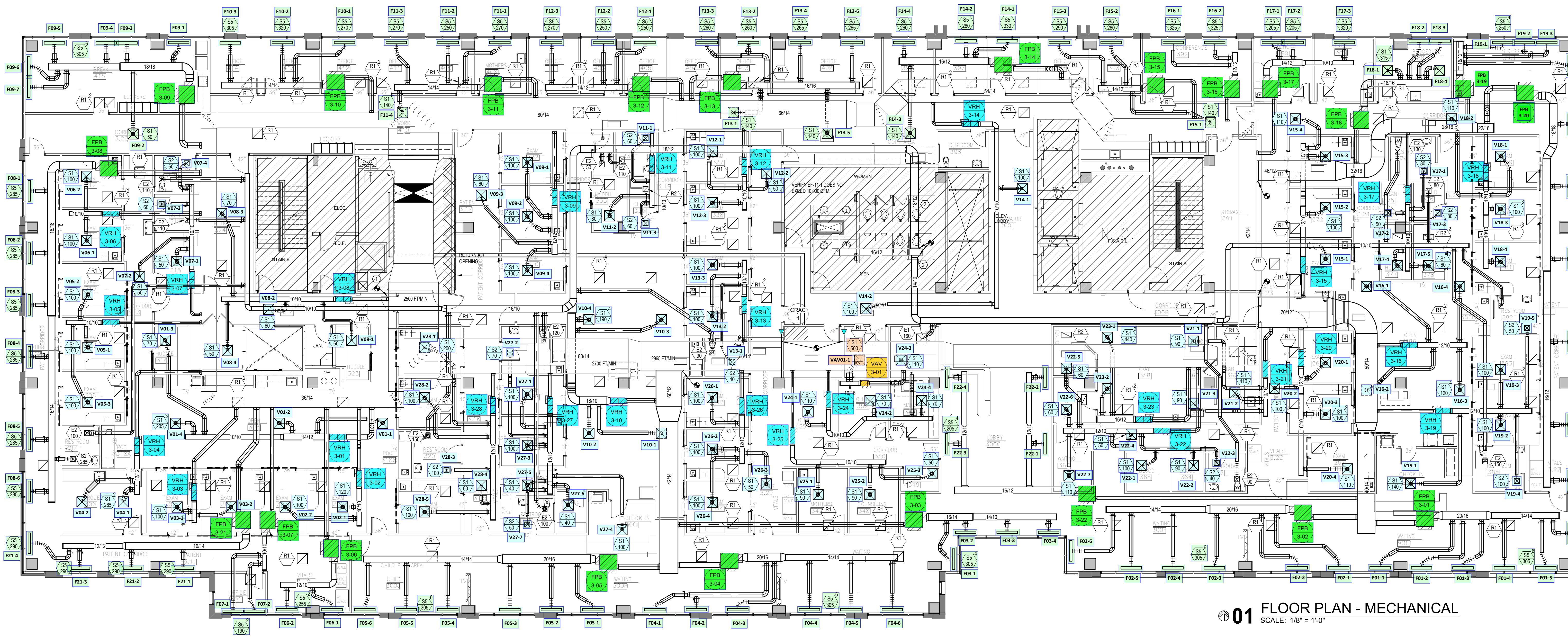
Client

Billingsley

National TAB

Project: CW 2999 - UTSW (DALLAS, TX)

Table Of Contents



01 FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M0.01 MECHANICAL LEGENDS AND NOTES FOR ADDITIONAL MECHANICAL NOTES

B. REFER TO M-700 SHEETS FOR SCHEDULES

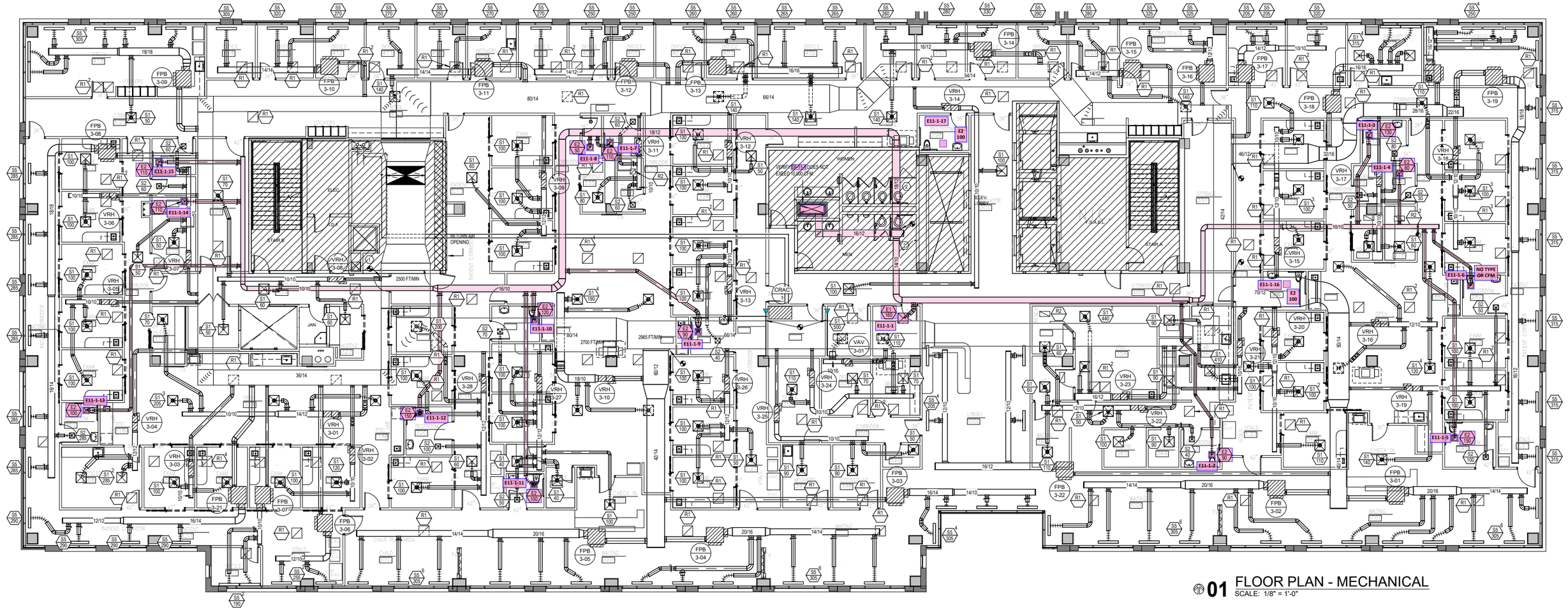
C. REFER TO M-800 SHEETS FOR DETAILS

KEYED NOTES:

NOTE: REFERENCE NUMBER INSIDE HEXAGON

1 CONNECT TO EXISTING. TYPICAL FOR ALL NEW VRH & FPB AND ASSOCIATED DUCTWORK.

2 DEMO EXISTING 12"x 6" EXHAUST DUCTS.



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CERTIFICATION

PROJECT: CW 2999 - UTSW (Dallas, TX)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems.* Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

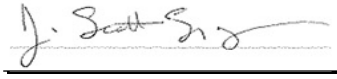
The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:	National TAB-Southeast
REGISTRATION NO:	3755
CERTIFIED BY:	J. Scott Springer 23312
DATE:	4/26/2023

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM:	National TAB-Southeast
REGISTRATION NO:	3086
CERTIFIED BY:	J. Scott Springer 23312
DATE:	

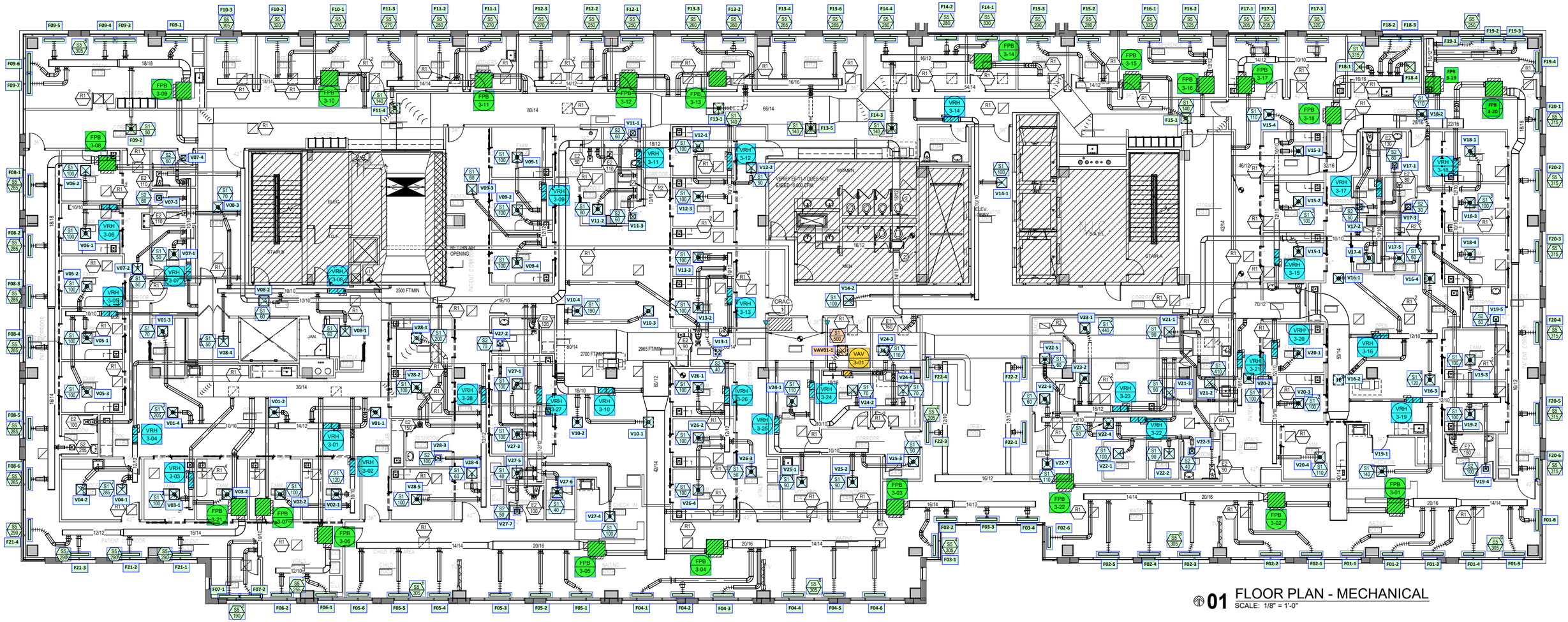
Submitted and Certified by:

NEBB TAB FIRM:	National TAB-Southeast
TAB PROFESSIONAL:	J. Scott Springer
SIGNATURE:	
REGISTRATION NO:	3755 (NTAB) / 23312
CERTIFICATION EXP:	12/31/2023

Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Shortridge ADM 880C - S/N M05066	9/28/2022	9/28/2023
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Shortridge ADM 880C - S/N M05066	9/28/2022	9/28/2023
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 3 % +/- 7 cfm	Shortridge ADM 880C - S/N M05066	9/28/2022	9/28/2023
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/12/2022	10/12/2023
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	10/12/2022	10/12/2023
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/12/2022	10/12/2023
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	10/12/2022	10/12/2023
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/12/2022	10/12/2023
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	10/12/2022	10/12/2023
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	10/12/2022	10/12/2023
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/12/2022	10/12/2023
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/12/2022	10/12/2023
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Dwyer TAC-L - S/N S1100123	10/12/2022	10/12/2023
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/29/2022	6/29/2023
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/29/2022	6/29/2023

Abbreviation List

A = Area (ft^2)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A_k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T_{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T_{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T_{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO2 = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C_v = Flow Constant	K_v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T_{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
$\%_{ra}$ = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio



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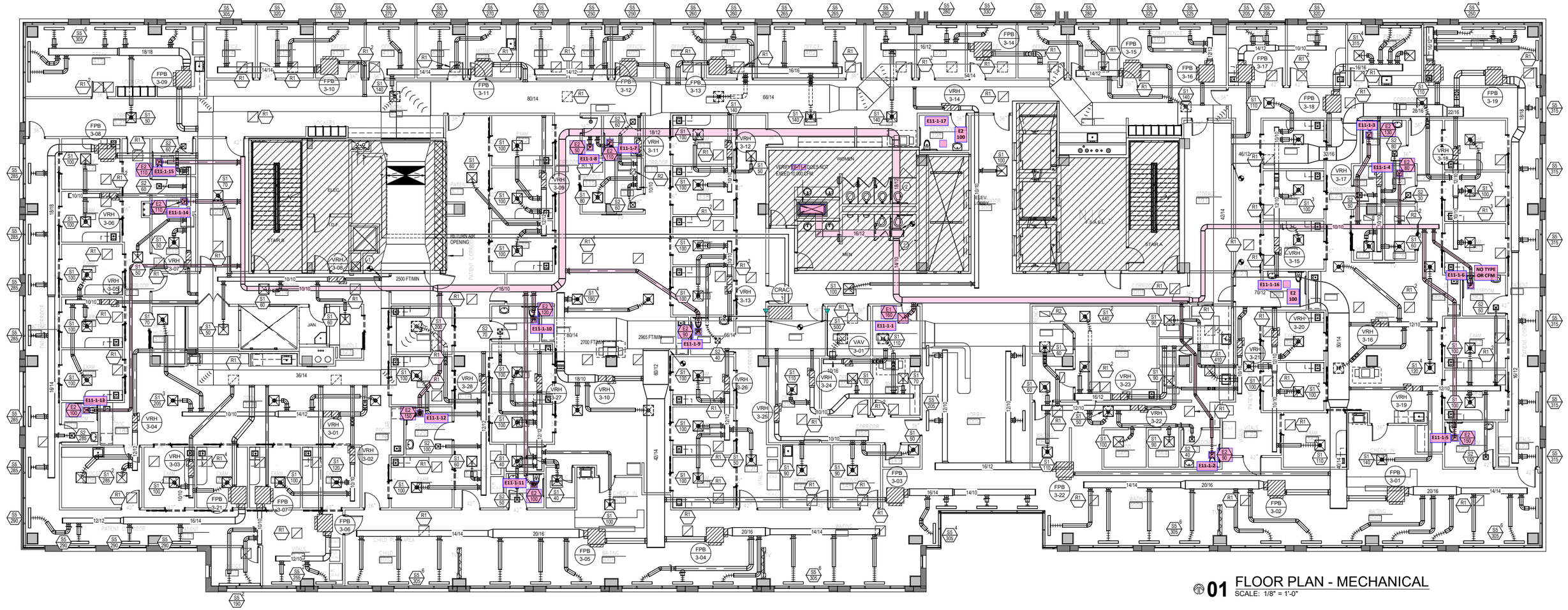

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National TAB

Project:CW 2999 - UTSW (DALLAS, TX)

VAV - Single Duct

VAV's/

Asset									
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-3-01	VAV-3N-38	8	500	499	500	499	0	0	964.7
VRH-3-01	VHN-3N-48	8	685	557	220	218	450	447	902.3
VRH-3-02	VRH-3N-49	6	220	217	80	78	180	181	487.1
VRH-3-03	VRH-3N-53	6	200	196	70	71	180	178	479.3
VRH-3-04	VRH-3N-54	8	570	585	190	193	380	383	855.0
VRH-3-05	VRH-3N-06	6	300	293	100	98	200	201	463.4
VRH-3-06	VRH-3N-07	6	200	203	70	73	180	181	479.8
VRH-3-07	VRH-3N-05	6	220	226	80	81	180	183	504.9
VRH-3-08	VRH-3N-04	6	240	239	80	79	180	176	526.3
VRH-3-09	VHR-3N-12	8	360	355	120	122	240	243	828.4
VRH-3-10	VRH-3N-45	10	760	791	260	264	500	510	1477.5
VRH-3-11	VRH-3N-14	6	200	199	70	71	180	178	435.6
VRH-3-12	VRH-3N-16	6	250	247	90	89	180	179	457.8
VRH-3-13	VRH-3N-41	6	240	249	70	72	180	184	429.7
VRH-3-14	VRH-3N-18	6	200	191	70	68	180	176	320.4
VRH-3-15	VRH-3S-33	8	410	425	140	145	270	278	843.4
VRH-3-16	VRH-3S-27	8	480	509	160	163	320	323	845.0
VRH-3-17	VRH-3S-26	6	280	285	100	106	190	193	419
VRH-3-18	VRH-3S-25	8	410	404	170	172	270	268	845.0
VRH-3-19	VRH-3S-28	8	490	494	170	174	320	321	916.2
VRH-3-20	VRH-3S-32	8	460	459	140	145	270	278	876.7
VRH-3-21	VRH-3S-34	8	590	591	200	202	390	387	895.2
VRH-3-22	VRH-3S-34	8	510	482	180	181	340	343	1002.1
VRH-3-23	VRH-3S-35	10	880	858	300	289	580	573	1477.3
VRH-3-24	VRH-3N-39	8	360	349	120	121	240	243	777.6
VRH-3-25	VRH-3N-40	6	230	231	80	82	180	178	487.2
VRH-3-26	VRH-3N-42	6	350	336	120	118	230	231	492.0
VRH-3-27	VRH-3N-46	8	500	513	170	173	330	337	984.8
VRH-3-28	VRH-3N-47	7	560	567	190	193	370	381	848.2

Asset	Notes
VRH-3-01	SA Duct leading up to the unit is 6" not 8". Then the duct transfers to about 3 feet of 8" flex duct before connecting to the unit.
VRH-3-28	Fully dampered diffuser 4 and 5 are still high and 1 is still low.

Diffuser Supply (GRD)

VRH-3-01/318

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V01-1	318	S1	10	205	125	153	74.6
V01-2	318	S1	10	205	125	155	75.6
V01-3	316	S1	6	70	90	104	148.6
V01-4	318	S1	10	205	126	145	70.7

VRH-3-02/302

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V02-1	302	S1	8	120	126	124	103.3
V02-2	303	S1	6	100	88	93	93.0

VRH-3-03/305

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V03-1	305	S1	6	100	93	93	93.0
V03-2	304	S1	6	100	103	103	103.0

VRH-3-04/306

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V04-1	306	S1	10	285	351	305	107.0
V04-2	306	S1	10	285	289	280	98.2

VRH-3-05/308

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V05-1	309	S1	6	100	124	92	92.0
V05-2	310	S1	6	100	92	109	109.0
V05-3	308	S1	6	100	66	92	92.0

VRH-3-06/311

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V06-1	311	S1	6	100	95	102	102.0
V06-2	312	S1	6	100	95	101	101.0

VRH-3-07/315

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V07-1	315	S1	6	50	55	50	100.0
V07-2	3.13	S1	6	50	79	51	102.0
V07-3	314	S2	6	60	27	66	110.0
V07-4	313	S2	6	60	54	59	98.3

VRH-3-08/324

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V08-1	323	S1	6	60	76	66	110.0
V08-2	3.14	S1	6	60	83	60	100.0
V08-3	324	S1	6	70	49	64	91.4
V08-4	317	S1	6	50	46	49	98.0

VRH-3-09/331

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V09-1	332	S1	6	100	87	101	101.0
V09-2	331	S1	6	100	82	91	91.0
V09-3	3.17	S1	6	60	97	56	93.3
V09-4	330	S1	6	100	102	107	107.0

VRH-3-10/345A

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V10-1	345	S1	8	190	207	205	107.9
V10-2	345	S1	8	190	243	204	107.4
V10-3	345	S1	8	190	177	192	101.1
V10-4	345	S1	8	190	195	190	100.0

VRH-3-11/335

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V11-1	334	S2	6	60	126	59	98.3
V11-2	335	S1	6	80	32	75	93.8
V11-3	336	S2	6	60	39	65	108.3

VRH-3-12/337

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V12-1	337	S1	6	100	79	98	98.0
V12-2	3.21	S1	6	50	93	51	102.0
V12-3	338	S1	6	100	55	98	98.0

VRH-3-13/340

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V13-1	341	S2	6	40	69	53	132.5
V13-2	340	S1	6	100	51	88	88.0
V13-3	339	S1	6	100	80	108	108.0

VRH-3-14/300B

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V14-1	300	S1	6	100	81	90	90.0
V14-2	300A	S1	6	100	45	101	101.0

VRH-3-15/371

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V15-1	371	S1	6	100	115	109	109.0
V15-2	372	S1	6	100	98	110	110.0
V15-3	373	S1	6	100	115	105	105.0
V15-4	3.27	S1	8	110	86	101	91.8

VRH-3-16/386A

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V16-1	386	S1	8	120	122	123	102.5
V16-2	386	S1	8	120	108	125	104.2
V16-3	386	S1	8	120	140	129	107.5
V16-4	386	S1	8	120	141	132	110.0

VRH-3-17/377

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V17-1	374	S2	6	80	54	75	93.8
V17-2	375	S2	6	50	17	54	108.0
V17-3	376	S2	6	30	60	33	110.0
V17-4	377	S1	6	60	54	59	98.3
V17-5	378	S1	6	60	46	64	106.7

VRH-3-18/379

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V18-1	379	S1	6	100	107	106	106.0
V18-2	3.27	S1	8	110	98	99	90.0
V18-3	380	S1	6	100	92	92	92.0
V18-4	380	S1	6	100	109	107	107.0

VRH-3-19/384

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V19-1	300E	S1	8	140	141	140	100.0
V19-2	384	S1	6	100	108	92	92.0
V19-3	383	S1	6	100	56	104	104.0
V19-4	385	S2	6	100	140	107	107.0
V19-5	382	S2	6	50	98	51	102.0

VRH-3-20/369

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V20-1	369	S1	6	100	102	102	102.0
V20-2	3.23	S1	6	100	97	93	93.0
V20-3	368	S1	6	100	102	104	104.0
V20-4	367	S1	8	110	90	105	95.5
V20-5	RR	S1	6	50	53	55	110.0

VRH-3-21/362

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V21-1	359	S1	6	90	184	95	105.6
V21-2	362	S1	6	90	188	99	110.0
V21-3	361	S1	12	410	271	397	96.8

VRH-3-22/365

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V22-1	365	S1	6	100	48	46	46.0
V22-2	364	S1	6	90	75	64	71.1
V22-3	363	S2	6	40	35	41	102.5
V22-4	HALL	S1	6	50	131	108	216.0
V22-5	357	S1	6	60	75	61	101.7
V22-6	LOCKERS	S1	6	60	83	69	115.0
V22-7	366	S1	8	110	112	93	84.5

VRH-3-23/358

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V23-1	358	S1	12	440	712	440	100.0
V23-2	358	S1	12	440	189	418	95.0

VRH-3-24/351

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V24-1	351	S1	8	110	92	107	97.3
V24-2	352	S1	6	70	103	67	95.7
V24-3	356	S1	8	110	43	101	91.8
V24-4	353	S1	6	70	103	74	105.7

VRH-3-25/348

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V25-1	347	S1	6	90	70	90	100.0
V25-2	348	S1	6	90	29	90	100.0
V25-3	349	S1	6	50	91	51	102.0

VRH-3-26/342

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V26-1	342	S1	6	100	91	95	95.0
V26-2	343	S1	6	100	97	102	102.0
V26-3	3.20	S1	6	50	77	46	92.0
V26-4	344	S1	6	100	79	93	93.0

VRH-3-27/328

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V27-1	328	S1	6	100	74	103	103.0
V27-2	329	S1	6	70	105	107	152.9
V27-3	327	S1	6	100	27	46	46.0
V27-4	300I	S1	6	100	119	105	105.0
V27-5	326	S1	6	40	64	48	120.0
V27-6	346	S1	6	40	85	53	132.5
V27-7	325	S2	6	50	75	51	102.0

VRH-3-28/321

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V28-1	322	S1	8	200	72	135	67.5
V28-2	321	S1	6	100	120	98	98.0
V28-3	320	S2	6	100	166	101	101.0
V28-4	3.15	S1	6	60	186	113	188.3
V28-5	319	S1	6	100	199	120	120.0

VAV-3-01/355

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
VAV01-1	355	S1	12	500	562		-

National TAB

Project:CW 2999 - UTSW (DALLAS, TX)

VAV-Fan Powered Box

FPB's/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
FPB-3-01	ADDRESS	FPB-3S-29	12	1830	1849	610	591	1830	1905	1877
FPB-3-02	ADDRESS	FPB-3S-30	12	1830	1748	610	613	1830	1779	1603
FPB-3-03	ADDRESS	FPB-3S37	10	1220	1109	410	412	1220	1259	1110
FPB-3-04	ADDRESS	FPB-3N-43	12	1830	1789	610	612	1830	1859	1776
FPB-3-05	ADDRESS	FPB-3N-44	12	1830	1748	610	620	1830	1735	1759
FPB-3-06	ADDRESS	FPB-3N-50	8	510	509	170	168	510	527	759
FPB-3-07	ADDRESS	FPB-3N-51	6	380	390	130	124	250	274	450
FPB-3-08	ADDRESS	FPB-3N-08	12	1760	1701	670	659	1090	1106	1760
FPB-3-09	ADDRESS	FPB-3N-09	12	1880	1874	630	638	1250	1216	2263
FPB-3-10	ADDRESS	FP-3N-10	8	895	902	300	296	895	697	956
FPB-3-11	ADDRESS	FPB-3N-11	10	930	928	310	315	930	934	1961
FPB-3-12	ADDRESS	FPB-3N-13	8	770	769	260	263	770	830	638
FPB-3-13	ADDRESS	FPB-3N-15	10	1330	1297	450	453	1330	1218	1274
FPB-3-14	ADDRESS	FPB-3N-17	10	1010	962	340	341	1010	1081	1302
FPB-3-15	ADDRESS	FPB-3S-19	8	710	693	240	245	710	718	750
FPB-3-16	ADDRESS	FPB-3S-20	8	650	667	220	222	650	714	701
FPB-3-17	ADDRESS	FPB-3S-21	8	730	687	250	252	730	808	618
FPB-3-18	ADDRESS	FPB-3S-22	10	1260	1285	420	411	1260	1289	1229
FPB-3-19	ADDRESS	FPB-3S-23	10	1000	1010	340	345	1000	1073	1220
FPB-3-20	ADDRESS	FPB-3S-24	12	1890	1772	630	632	1890	1797	1600
FPB-3-21	ADDRESS	FPB-3N-52	10	1160	1155	390	410	770	741	1258
FPB-3-22	ADDRESS	FPB-3S-36	8	820	743	280	285	820	895	838

Asset	Notes
FPB-3-17	ROOMS 389 AND 390 BECAME ONE ROOM. DIFFUSER CFM'S DIVIDED UP EVENLY.
FPB-3-18	ROOM 388 BECAME 2 ROOMS

Diffuser Supply (GRD)

FPB-3-01/300D

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F01-1	300D	S5	10	305	161	277	90.8
F01-2	300D	S5	10	305	255	301	98.7
F01-3	300D	S5	10	305	314	318	104.3
F01-4	300D	S5	10	305	295	323	105.9
F01-5	300D	S5	10	305	325	310	101.6
F01-6	300D	S5	10	305	399	320	104.9

FPB-3-02/300E

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F02-1	300F	S5	10	305	83	287	94.1
F02-2	300F	S5	10	305	231	284	93.1
F02-3	300F	S5	10	305	243	292	95.7
F02-4	300F	S5	10	305	305	299	98.0
F02-5	300F	S5	10	305	380	301	98.7
F02-6	300F	S5	10	305	303	285	93.4

FPB-3-03/300C

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F03-01	300C	S5	10	305	229	275	90.2
F03-02	300C	S5	10	305	262	279	91.5
F03-03	300C	S5	10	305	261	276	90.5
F03-04	300C	S5	10	305	222	279	91.5

FPB-3-04/300H

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F04-1	300H	S5	10	305	224	279	91.5
F04-2	300H	S5	10	305	276	303	99.3
F04-3	300H	S5	10	305	190	289	94.8
F04-4	WAITING	S5	10	305	280	309	101.3
F04-5	WAITING	S5	10	305	303	319	104.6
F04-6	WAITING	S5	10	305	309	290	95.1

FPB-3-05/300I

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F05-1	300H	S5	10	305	296	300	98.4
F05-2	300H	S5	10	305	218	278	91.1
F05-3	300H	S5	10	305	246	275	90.2
F05-4	300J	S5	10	305	325	300	98.4
F05-5	300J	S5	10	305	277	303	99.3
F05-6	300J	S5	10	305	238	292	95.7

FPB-3-06/3.10

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F06-1	3.19	S5	10	255	229	239	93.7
F06-2	3.19	S5	10	255	231	270	105.9

FPB-3-07/301

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F07-1	301	S5	8	190	198	206	108.4
F07-2	301	S5	8	190	152	184	96.8

FPB-3-08/3.12

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F08-1	3.12	S5	10	285	308	283	99.3
F08-2	3.12	S5	10	285	248	259	90.9
F08-3	3.12	S5	10	285	336	300	105.3
F08-4	3.12	S5	10	285	281	269	94.4
F08-5	3.12	S5	10	285	150	258	90.5
F08-6	3.12	S5	10	285	202	282	98.9
F08-7	307	S2	8	50	53	50	100.0

FPB-3-09/415

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F09-1	415	S5	10	305	64	275	90.2
F09-2	415	S5	10	50	250	55	110.0
F09-3	415	S5	10	305	194	281	92.1
F09-4	415	S5	10	305	421	310	101.6
F09-5	415	S5	10	305	233	296	97.0
F09-6	415	S5	10	305	403	323	105.9
F09-7	415	S5	10	305	85	334	109.5

FPB-3-10/412

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F10-1	412	S5	10	270	195	297	110.0
F10-2	413	S5	10	320	239	318	99.4
F10-3	414	S5	10	305	216	287	94.1

FPB-3-11/409

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F11-1	408	S5	10	270	53	244	90.4
F11-2	409	S5	10	250	64	274	109.6
F11-3	411	S5	10	270	70	282	104.4
F11-4	410	S1	8	140	35	128	91.4

FPB-3-12/405

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F12-1	405	S5	10	250	196	229	91.6
F12-2	406	S5	10	250	181	250	100.0
F12-3	407	S5	10	270	233	290	107.4

FPB-3-13/402

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F13-1	HALL	S1	8	140	124	131	93.6
F13-2	403	S5	10	260	167	250	96.2
F13-3	404	S5	10	260	330	249	95.8
F13-4	402	S5	10	265	281	272	102.6
F13-5	401	S1	8	140	161	136	97.1
F13-6	402	S5	10	265	265	259	97.7

FPB-3-14/396

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F14-1	396	S5	10	330	309	313	94.8
F14-2	397	S5	10	280	136	281	100.4
F14-3	400	S1	8	140	229	129	92.1
F14-4	399	S5	10	260	248	239	91.9

FPB-3-15/393

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F15-1	HALL	S1	8	140	164	139	99.3
F15-2	393	S5	10	280	211	280	100.0
F15-3	395	S5	10	290	234	274	94.5

FPB-3-16/392

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F16-1	392	S5	10	325	316	352	108.3
F16-2	392	S5	10	325	210	315	96.9

FPB-3-17/390

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F17-1	390	S5	10	244	186	239	98.0
F17-2	390	S5	10	243	204	229	94.2
F17-3	389	S5	10	243	191	219	90.1

FPB-3-18/388

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F18-1	387	S1	10	315	511	346	109.8
F18-2	387	S1	10	315	156	286	90.8
F18-3	387	S1	10	315	329	345	109.5
F18-4	387	S1	10	315	90	308	97.8

FPB-3-19/387

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F19-1	387	S5	10	250	87	263	105.2
F19-2	387	S5	10	250	227	250	100.0
F19-3	387	S5	10	250	292	236	94.4
F19-4	387	S5	10	250	246	261	104.4

FPB-3-20/3.26

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F20-1	3.26	S5	10	315	237	300	95.2
F20-2	3.26	S5	10	315	217	298	94.6
F20-3	3.26	S5	10	315	181	295	93.7
F20-4	3.26	S5	10	315	253	292	92.7
F20-5	3.26	S5	10	315	274	294	93.3
F20-6	3.26	S5	10	315	273	293	93.0

FPB-3-21/3.11

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F21-1	3.11	S5	10	290	238	270	93.1
F21-2	3.11	S5	10	290	269	319	110.0
F21-3	3.11	S5	10	290	254	279	96.2
F21-4	3.11	S5	10	290	258	287	99.0

FPB-3-22/300C

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
F22-1	300C	S5	10	205	153	185	90.2
F22-2	300C	S5	10	205	276	185	90.2
F22-3	300C	S5	10	205	96	186	90.7
F22-4	300C	S5	10	205	143	187	91.2

Diffuser Ret/Exh (GRD)

EF-11-1/370

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E11-1-1	E1		160		168		168	105.0
E11-1-2	E2		90		34		34	37.8
E11-1-3	E2		130		59		59	45.4
E11-1-4	E2		80		43		43	53.8
E11-1-5	E2		150		18		18	12.0
E11-1-6	E2		100		59		59	59.0
E11-1-7	E2		110		42		42	38.2
E11-1-8	E2		50		83		83	166.0
E11-1-9	E2		90		77		77	85.6
E11-1-10	E2		120		46		46	38.3
E11-1-11	E2		100		63		63	63.0
E11-1-12	E2		150		46		46	30.7
E11-1-13	E2		100		11		11	11.0
E11-1-14	E2		110		13		13	11.8
E11-1-15	E2		110		41		41	37.3
E11-1-16	E2		100		43		43	43.0
E11-1-17	E2		100		54		54	54.0