

EXISTING ROOFTOP UNIT SCHEDULE															
DESIG	AREA SERVED	SUPPLY CFM	O.A. CFM	EXT. STATIC PRESS.	COOLING CAPACITY						ELECTRICAL			MANUFACTURER MODEL NO.	
					TOTAL LOAD (MBH)	SENS. LOAD (MBH)	EAT OF DB/WB (°F)	LAT OF DB/WB (°F)	AMB. TEMP. (°F)	NOM. TON	EER	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM FUSE SIZE		VOLTS-PH
EX. RTU-1	NORTHWEST EXTERIOR OFFICE SPACE	4	4	---	---	---	---	---	---	---	15	---	---	---	YORK ZF180C0054AAA1
EX. RTU-2	SOUTH EXTERIOR OFFICE SPACE	4,155	565	---	---	---	---	---	---	---	15	39.0	50.0	480-3-60	TRANE TCD180B400HB
EX. RTU-3	INTERIOR OFFICE SPACE	8,430	920	---	---	---	---	---	---	---	20	51.0	80.0	480-3-60	YORK ZF240C0054AAA1
EX. RTU-4	INTERIOR OFFICE SPACE	6,135	760	---	---	---	---	---	---	---	20	50.0	60.0	480-3-60	TRANE TCD240B400JB
EX. RTU-5	NOT USED, SHALL BE REPLACED	---	---	---	---	---	---	---	---	---	10	---	---	---	TRANE SACC-C116-A
EX. RTU-6	NOT USED, SHALL BE ABANDONED	---	---	---	---	---	---	---	---	---	4	---	---	---	TRANE TCD048A400BA
EX. RTU-7	NOT USED, SHALL BE REPLACED	---	---	---	---	---	---	---	---	---	20	---	---	---	CARRIER 50TJ-024-6B1AA

NOTES:

- ROOFTOP UNITS ARE EXISTING. COOLING, ELECTRICAL, AND MODEL NUMBER IS FOR INFORMATION PURPOSES ONLY.
- UNITS SHALL BE REBALANCED TO CFM SHOWN IN SUPPLY CFM COLUMN. IF UNIT CANNOT BE SET LOW ENOUGH, THE FAN SHALL BE SET TO ITS LOWEST SPEED. IF THE UNIT CANNOT BE SET HIGH ENOUGH, THE FAN SHALL BE SET TO ITS HIGHEST SPEED.
- THE AMOUNT OF OUTSIDE AIR BEING PROVIDED BY EACH UNIT SHALL BE REBALANCED TO MEET THE MINIMUM OUTSIDE AIR CFM SHOWN IN THE O.A. CFM COLUMN.
- EXISTING CFM SHALL REMAIN UNCHANGED.

ZONE DAMPER SCHEDULE					
DESIG	AIR VALVE TYPE	MAXIMUM CFM	MINIMUM CFM	VALVE DIAMETER	MANUFACTURER/MODEL
ZD-1	ROUND	1275	255	12"	CARRIER 35J N1--0L12
ZD-2	ROUND	1305	265	12"	CARRIER 35J N1--0L12
ZD-3	ROUND	1140	230	10"	CARRIER 35J N1--0L10
ZD-4	ROUND	1110	225	10"	CARRIER 35J N1--0L10
ZD-5	ROUND	1365	275	12"	CARRIER 35J N1--0L12
ZD-6	ROUND	145	30	4"	CARRIER 35J N1--0L04
ZD-7	ROUND	650	130	8"	CARRIER 35J N1--0L08
ZD-8	ROUND	1530	310	12"	CARRIER 35J N1--0L12
ZD-9	ROUND	1050	210	10"	CARRIER 35J N1--0L10
ZD-10	---	---	---	---	---
ZD-11	---	---	---	---	---
ZD-12	ROUND	1260	255	12"	CARRIER 35J N1--0L12
ZD-13	ROUND	1680	340	14"	CARRIER 35J N1--0L14
ZD-14	ROUND	510	105	8"	CARRIER 35J N1--0L08
ZD-15	ROUND	420	85	6"	CARRIER 35J N1--0L06
ZD-16	ROUND	1770	355	14"	CARRIER 35J N1--0L14
ZD-17	ROUND	420	85	6"	CARRIER 35J N1--0L06
ZD-18	ROUND	450	90	8"	CARRIER 35J N1--0L08
ZD-19	ROUND	1140	230	10"	CARRIER 35J N1--0L10
ZD-20	ROUND	1560	315	12"	CARRIER 35J N1--0L12
ZD-21	ROUND	1260	255	12"	CARRIER 35J N1--0L12
ZD-22	ROUND	600	120	8"	CARRIER 35J N1--0L08
ZD-23	ROUND	550	110	8"	CARRIER 35J N1--0L08
ZD-24	ROUND	420	85	6"	CARRIER 35J N1--0L06
ZD-25	ROUND	300	60	6"	CARRIER 35J N1--0L06
ZD-26	ROUND	1020	205	10"	CARRIER 35J N1--0L10
ZD-27	ROUND	170	35	4"	CARRIER 35J N1--0L04
ZD-28	ROUND	1815	365	14"	CARRIER 35J N1--0L14

ELECTRIC HEATER SCHEDULE					
DESIG	KW	ELECTRICAL	TYPE	MANUFACTURER MODEL NO.	NOTES
EH-1	5.0	277/1/60	HORIZONTAL DISCHARGE	MARKEL G1G510SN	1 2 3
EH-2	5.0	277/1/60	HORIZONTAL DISCHARGE	MARKEL G1G510SN	1 2 3
EH-3	3.0	277/1/60	WALL MOUNTED	MARKEL G3325TD-RP	1 2
EH-4	3.0	277/1/60	WALL MOUNTED	MARKEL G3325TD-RP	1 2

NOTES:

- FURNISH WITH FACTORY DISCONNECT & INTEGRAL THERMOSTAT.
- FINAL COLOR TO BE SELECTED BY ARCHITECT
- PROVIDE MOUNTING BRACKET WITH UNIT HEATER.

EXHAUST FAN SCHEDULE									
FAN NO.	SERVING	WATTS	CFM	S.P.	RPM	TYPE & DRIVE	CONTROL	ELECT. CHARG.	MANUFACTURER/MODEL
EF-1	MENS BATHROOM	80	75	0.375	767	CEILING / DIRECT	SWITCH	120V/1PH/60Hz	GREENHECK MODEL SP-8110 1 2
EF-2	WOMENS BATHROOM	80	75	0.375	767	CEILING / DIRECT	SWITCH	120V/1PH/60Hz	GREENHECK MODEL SP-8110 1 2

NOTES:

- FAN SHALL BE COMPLETE WITH MANUFACTURER'S SOLD STATE SPEED CONTROLLER AND ISOLATION KIT FOR FAN PROVIDED FOR THIS PROJECT.
- FAN SHALL BE CONTROLLED BY WALL SWITCH. COORDINATE WITH ELECTRICAL DOCUMENTS.

DIFFUSER, REGISTER AND GRILLE SCHEDULE											
DESIG.	SERVING	MOUNTING	NOMINAL FACE SIZE INCHES	NECK SIZE INCHES	MATERIAL	LINEAR			PATTERN	CFM RANGE	REMARKS
						SLOT LEN. IN.	SLOT WID. IN.	QTY. OF SLOTS			
SD-1	SUPPLY	CEILING	24"x24"	6"DIA	STEEL	---	---	---	ADJUSTABLE	0-130	TITUS MODEL TMS
SD-1	SUPPLY	CEILING	24"x24"	8"DIA	STEEL	---	---	---	---	131-250	TITUS MODEL TMS
SD-1	SUPPLY	CEILING	24"x24"	10"DIA	STEEL	---	---	---	---	251-420	TITUS MODEL TMS
SD-1	SUPPLY	CEILING	24"x24"	12"DIA	STEEL	---	---	---	---	421-560	TITUS MODEL TMS
RR-1	RETURN	CEILING	24"x24"	22"x22"	STEEL	---	---	---	FIXED	0-1500	TITUS MODEL PXP
EG-1	EXHAUST	CEILING	8"x8"	6"x6"	STEEL	---	---	---	FIXED	0-75	TITUS MODEL 23RL

NOTES:

- ALL AIR DEVICES LOCATED IN "WET" OR "HUMID" ENVIRONMENTS SHALL BE ALUMINUM. ALL OTHER AIR DEVICES SHALL BE STEEL.
- MAX AIR PRESSURE DROP (APD) 0.1"WG
- MAX NC 25
- ALL AIR DEVICE AIR QUANTITIES (CFM) SHALL BE AS INDICATED ON PLANS. REFER TO THIS SCHEDULE FOR NECK SIZE AND DESIGNATION. DUCT RUN OUT SHALL BE SAME AS NECK SIZE UNLESS NOTED OTHERWISE.
- ALL AIR DEVICES SHALL BE TITUS OR APPROVED EQUAL.

NEW ROOFTOP UNIT SCHEDULE																		
DESIG	AREA SERVED	SUPPLY CFM	MIN O.A. CFM	EXT. STATIC PRESS.	SUPPLY FAN MOTOR BHP	COOLING CAPACITY						ELECTRICAL			MANUFACTURER MODEL NO.	UNIT WEIGHT (LBS)	REMARKS	
						TOTAL LOAD (MBH)	SENS. LOAD (MBH)	EAT OF DB/WB (°F)	LAT OF DB/WB (°F)	AMB. TEMP. (°F)	NOM. TON	EER	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM FUSE SIZE				VOLTS-PH
RTU-8	WEST EXTERIOR OFFICE SPACE	3,370	155	0.75	1.44	91.5	75.1	77.2/63.0	57.8/54.1	95	7.5	11.2	19.5	25.0	480-3-60	TRANE TSC092E	1,081	SEE NOTES
RTU-9	MEZZANINE AREA & GYM	2,720	510	0.75	1.10	99.4	64.8	80.1/67.8	59.3/56.5	95	8.5	11.2	21.9	25.0	480-3-60	TRANE TSC102E	1,118	SEE NOTES

NOTES:

- PROVIDE ROOFTOP UNIT CURB
- PROVIDED W/NON-FUSED DISCONNECT.
- ACCEPTABLE REFRIGERANT R-410A ONLY
- FACTORY INSTALLED CONVENIENCE OUTLET
- 1 YEAR PARTS WARRANTY, 5 YEAR NON PRO-RATED COMPRESSOR WARRANTY
- ROOFTOP UNIT MANUFACTURER SHALL PROVIDE START UP AND FIRST YEAR LABOR WARRANTY
- PROVIDE ECONOMIZER WITH POWER EXHAUST FAN

OCCUPIED MODE:

THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY WITH THE OUTDOOR AIR DAMPER OPEN. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED SETTING OF A ZONE CONTROLLER OR THE MASTER STAT, THE MASTER STAT SHALL CALL FOR THE COOLING CYCLE TO BE ENERGIZED. THE COOLING CYCLE SHALL BE DE-ENERGIZED WHEN ALL THE STATS WITHIN THAT ZONE ARE SATISFIED. IF THE SPACE TEMPERATURE DOES NOT REQUIRE THE MASTER STAT OR ZONE CONTROLLER TO CALL FOR COOLING, THE ZONE DAMPER SHALL BE IN ITS MINIMUM POSITION. AS INDIVIDUAL ZONE DAMPERS CLOSE AND THE EXTERNAL STATIC PRESSURE ON THE FAN RISES, THE BYPASS DAMPER SHALL MODULATE OPEN TO MAINTAIN A CONSTANT STATIC PRESSURE.

SAFETY CONTROLS:

UPON SENSING IMPROPER CONDITIONS, DUCT SMOKE DETECTOR LOCATED IN THE SUPPLY AND THE RETURN AIR DUCTS SHALL STOP THE FAN AND CLOSE THE OUTSIDE AIR DAMPER. DUCT SMOKE DETECTORS SHALL BE PROVIDED UNDER DIVISION 15, AND WIRED UNDER DIVISION 16. PROVIDE REMOTE INDICATOR CONSISTING OF AUDIBLE AND VISUAL SIGNAL IDENTIFIED TO INDICATE AIR DUCT DETECTOR TROUBLE LOCATED IN A CONSPICUOUS PLACE ON CEILING OR WALL NEAR DETECTOR LOCATION.

CONTROL SYSTEM:

ROOFTOP UNITS AND VAV DAMPERS SHALL BE INTERCONNECTED THROUGH A DELTECH CONTROL SYSTEM. EXISTING ROOFTOP UNITS WILL NEED TO BE RETROFIT WITH THE NEW CONTROL SYSTEM. THE MASTER CONTROL PANEL FOR THE SYSTEM SHALL BE LOCATED PER THE TENANT'S INSTRUCTIONS.

ROOFTOP AIR CONDITIONER W/ VAV CONTROL

AUTOMATIC TEMPERATURE CONTROLS

DESIGN COLLECTIVE

312 BLACKWELL STREET, SUITE 100
DURHAM, NORTH CAROLINA 27701
T: 919-381-9322 F: 919-381-9323

601 EAST PRATT STREET, SUITE 300
BALTIMORE, MARYLAND 21202
T: 410-685-6655 F: 410-539-6242

ARCHITECTURE, PLANNING, INTERIORS
WWW.DESIGNCOLLECTIVE.COM

ISSUED FOR		DATE
BID SET		07.07.2011
PERMIT		07.19.2011
ADDENDUM #1		07.19.2011
ADDENDUM #2		07.29.2011
VAV REVISIONS		08.18.2011
VAV REVISIONS		09.01.2011

CONSULTANT

THIRTY CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS

10710 GILROY ROAD
HUNT VALLEY, MD 20881
Phone: 443-589-2400 Fax: 443-589-2401

OWNER / DEVELOPER

Johns Hopkins Healthcare
6704 Curtis Court
Glen Burnie, MD 21060

PROJECT NAME

Johns Hopkins Healthcare Masterplan

PROJECT ADDRESS

6701 Curtis Court
Suite D
Glen Burnie, MD 21060
PROJECT MANAGEMENT

DCI Project No. 459-10-01

SCALE

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 33030
Expiration Date: 07-06-2012"

SHEET TITLE

MECHANICAL SCHEDULES & ATC

SCALE

AS SHOWN

SHEET NUMBER

M300

