Report By:

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

Report: UC Pharmacy Relo PH1

Function: Test, Adjust, & Balance

Date: 09/03/2024

PROJECT

UC Pharmacy Relo PH1 (Cincinnati, OH)

3188 BELLEVUE AVENUE

Cincinnati, OH 45219

Client

Thomas J. Dyer Company

5240 Lester Road

Cincinnati, OH 45213

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Project: UC Pharmacy Relo PH1 (Cincinnati, OH)

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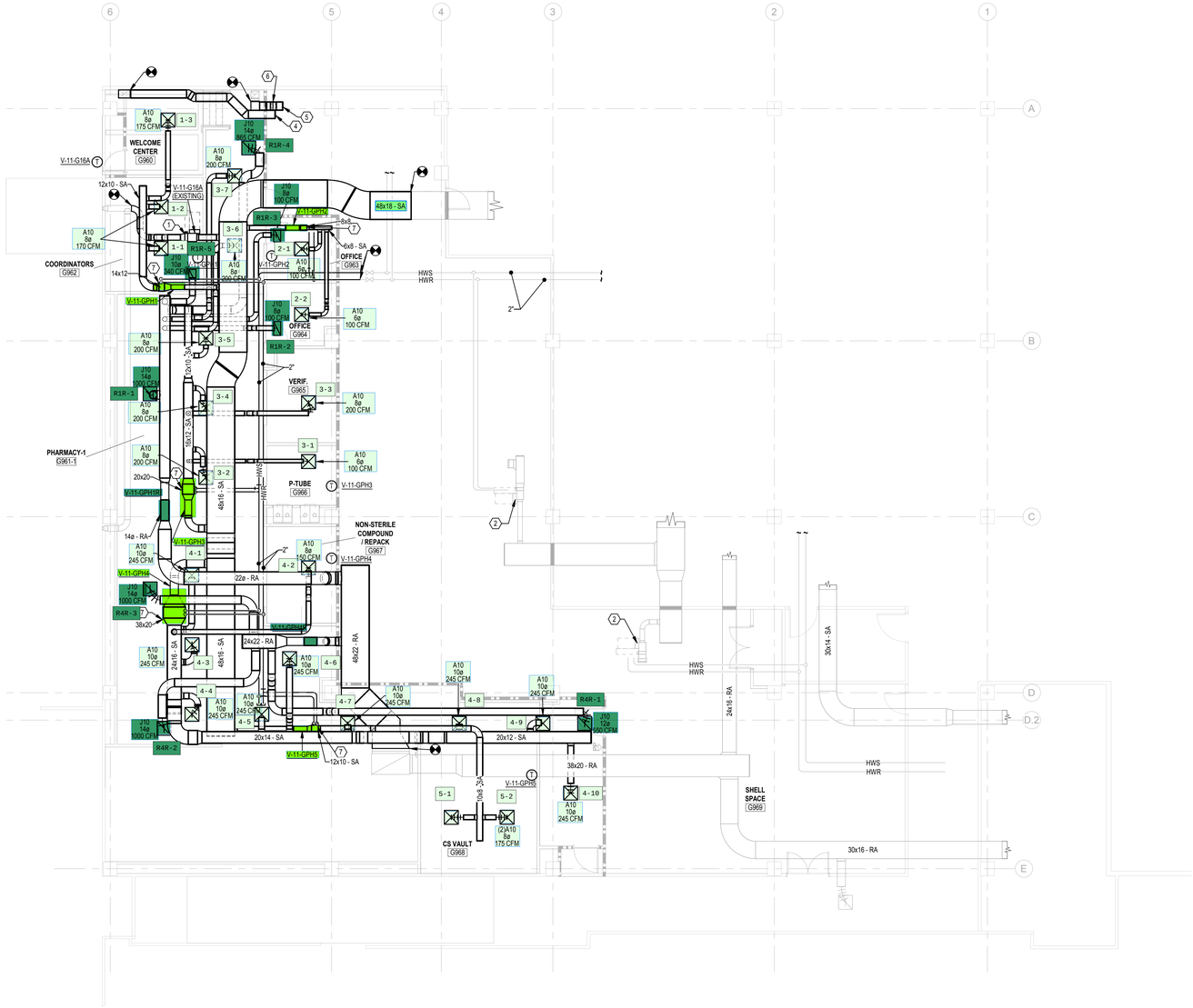
GENERAL NOTES

A. FIRE BARRIERS – OBC 717.5.2 EXCEPTION 3 / FIRE PARTITIONS – OBC 717.5.4 EXCEPTION 4

FIRE DAMPERS ARE NOT REQUIRED (UNLESS SHOWN ON FLOOR PLANS OR SCHEMATICS) AT PENETRATIONS OF FIRE BARRIERS WHERE SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAVING A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS IN AREAS OF THERE THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGH WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.1.2. HVAC SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAUGE. FLEXIBLE AIR CONNECTORS SHALL NOT BE PROHIBITED IN FULLY DUCTED SYSTEMS AT AIR HANDLING EQUIPMENT CONNECTIONS AND AT AIR CONNECTORS INSTALLATION TO CONNECT METAL DUCT TO A CEILING DIFFUSER AND IS LOCATED ENTIRELY WITHIN THE SAME ROOM AS THE CEILING DIFFUSER. THE FLEXIBLE AIR CONNECTOR SHALL NOT PAS THOUGH ANY WALLS, FLOORS, OR CEILINGS.

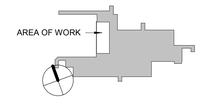
PLAN NOTES:

1. RELOCATE EXISTING VAV LOCATION SHOWN. REBALANCE TO CFM INDICATED.
2. REBALANCE EXISTING VAV TO 650 CFM MAX.
3. RELOCATE EXISTING THERMOSTAT FOR EXISTING VAV. EXTEND CONTROL WIRING FROM THERMOSTAT TO NEW VAV BOX LOCATION. CONNECT TO THE BAS.
4. CAPPED FOR PHASE TWO USP EXHAUST. HC SHALL COORDINATE NEW DAMPER ACCESS DOORS FOR EXISTING FIRE DAMPERS LOCATED IN SLAB ABOVE. DAMPERS SHOULD BE ACCESSIBLE FROM ABOVE CEILING ON GROUND FLOOR OR WALL AND DUCT ACCESS PANELS SHALL BE PROVIDED ON LEVEL 1 ABOVE.
5. CAPPED FOR PHASE TWO GENERAL EXHAUST. HC SHALL COORDINATE NEW DAMPER ACCESS DOORS FOR EXISTING FIRE DAMPERS LOCATED IN SLAB ABOVE. DAMPERS SHOULD BE ACCESSIBLE FROM ABOVE CEILING ON GROUND FLOOR OR WALL AND DUCT ACCESS PANELS SHALL BE PROVIDED ON LEVEL 1 ABOVE.
6. TRANSITION DUCT INTO OPEN SPACE BETWEEN BEAMS.
7. DUCT MOUNTED HEATING COIL FURNISHED WITH AIR VALVE.



1 **PARTIAL GROUND FLOOR PLAN - NEW WORK**
SCALE: 1/8" = 1'-0"

KEY PLAN



HEAPY
P: 937-224-0861 www.heapy.com
PROJECT NO. 2023-05229

STATE OF OHIO
BRIAN G. ARBOGAST
E - 69136
REGISTERED PROFESSIONAL ENGINEER
12/19/2023
2023-05229

12/20/23 Date

1. ISSUED FOR PERMIT AND CONSTRUCTION — Issue/Revision/Submission

BHDP ARCHITECTURE
303 WEST THIRD STREET
DAYTON, OHIO 45402
PHONE 513.271.1634

BHDP

CINCINNATI
COLUMBUS
RALEIGH
CHARLOTTE
www.bhdp.com

xx xx xx xx

UCMC PHASE 1 PHARMACY RELOCATION
3188 BELLEVUE AVENUE
CINCINNATI, OH 45219-2316

PARTIAL GROUND FLOOR PLAN - NEW

Project Manager: Approver
Drawn: SMG
Checked: BWS
Initial Drawing Date: 2023.12.20
Project Number: UCH0316

M101

Autodesk Docs://UCH0316 UCMC Phase I Pharmacy Relocation/2023-05229-MEP-Central.rvt — 12/20/2023 12:48:43 PM

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Project:UC Pharmacy Relo PH1 (Cincinnati, OH)

VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH1	VAV	515	499	515	499	680

Completed By: Riley Frady on 08/20/2024

Diffuser Supply (GRD)

V-11-GPH1/COOR

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
V-11-GPH1-SGRD1	G962	A10		170		163	95.9
V-11-GPH1-SGRD2	G962	A10		170		175	102.9
V-11-GPH1-SGRD3	G962	A10		175		161	92.0
Total				515	0	499	96.89%

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VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH2	VAV	200	219	200	219	680

Completed By: Riley Frady on 08/20/2024

Diffuser Supply (GRD)

V-11-GPH2/OFFICE

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
2-1	G963	A10	8	100	118	110	110.0
2-2	G964	A10	8	100	126	109	109.0
Total				200	244	219	109.5%

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Project:UC Pharmacy Relo PH1 (Cincinnati, OH)

VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH3	VAV	1300	1325	1300	325	720

Completed By: Riley Frady on 08/20/2024

Diffuser Supply (GRD)

V-11-GPH3/G968

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
3-1	G966	A10	12	100	122	109	109.0
3-2	G961	A10	12	200	269	207	103.5
3-3	G965	A10	12	200	36	210	105.0
3-4	G961	A10	12	200	297	215	107.5
3-5	G961	A10	12	200	319	211	105.5
3-6	HALL	A10	12	200	278	187	93.5
3-7	HALL	A10	12	200	182	186	93.0
Total				1300	1503	1325	101.92%

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VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH4	VAV	2355	2256	2350	2270	2260

Asset	Notes	Date	Written By
V-11-GPH4	No damper on 4-2 at top of duct, unable to finish device balance	08/20/2024	Riley Frady

Diffuser Supply (GRD)

V-11-GPH4/P0

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
4-1	G961	A10	14	245	282	240	98.0
4-2	G967	A10	14	150	202	158	105.3
4-3	G961	A10	14	245	314	225	91.8
4-4	G961	A10	14	245	233	221	90.2
4-5	G961	A10	14	245	321	233	95.1
4-6	G961	A10	14	245	259	269	109.8
4-7	HALL	A10	14	245	258	233	95.1
4-8	HALL	A10	14	245	280	259	105.7
4-9	HALL	A10	14	245	239	224	91.4
4-10	G969	A10	14	245	223	194	79.2
Total				2355	2611	2256	95.8%

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VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH5	VAV	350	358	350	358	676

Completed By: Riley Frady on 08/20/2024

Diffuser Supply (GRD)

V-11-GPH5/P1

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
5-1	G968	A10	8	175	185	167	95.4
5-2	G969	A10	8	175	216	191	109.1
Total				350	401	358	102.29%

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VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH1R 1	VAV	2405	2402	1865	2402	1530

Completed By: Riley Frady on 08/20/2024

Diffuser Ret/Exh (GRD)

V-11-GPH1R 1/P

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
1R1-1	J10	14	1000		740		1037	103.7
1R1-2	J10	8	100		137		99	99.0
1R1-3	J10	8	100		126		105	105.0
1R1-4	J10	14	865		579		801	92.6
1R1-5	J10	10	340		270		360	105.9
Total			2405		1852	0	2402	99.88%

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VAV - Single Duct

AIR VALVES/

Asset						
Asset Name	**Type**	**Design Max CFM**	**Max CFM**	**Design Min CFM**	**Min CFM**	**Ak (max)**
V-11-GPH4R 1	VAV	2550	2499	2550	2463	2700

Diffuser Ret/Exh (GRD)

V-11-GPH4R 1/G961-1

Asset								
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
R4R-1	J10	12	550		541		582	105.8
R4R-2	J10	14	1000		846		915	91.5
R4R-3	J10	14	1000		984		1002	100.2
Total			2550		2371	0	2499	98%

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Circuit Setter

HW CS/

Asset							
Asset Name	**Size**	**Type**	**Design GPM**	**Setting**	**Delta P**	**Final GPM**	**% to Design**
CS-1	0.75	AUTOFLOW	0.4	2-32 PSI	5.5	0.4	100.0
CS-2	0.75	AUTOFLOW	1.1	2-32 PSI	6.2	1.1	100.0
CS-3	1	AUTOFLOW	2.6	2-32 PSI	5.8	2.6	100.0
CS-4	1	AUTOFLOW	4.6	2-32 PSI	5.2	4.6	100.0
CS-5	0.75	AUTOFLOW	0.7	2-32 PSI	5.1	0.7	100.0
Total			9.4			9.4	100%