

Mechanical Technical Assignment One

ASHRAE Standard 62.1 and Standard 90.1 Evaluation



Geisinger Hospital for Advanced Medicine
Danville, Pennsylvania

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Executive Summary

The purpose of this report is to evaluate the compliance of the Geisinger Hospital for Advanced Medicine to ASHRAE Standard 62.1- 2007 and ASHRAE Standard 90.1- 2007. Geisinger Hospital for Advanced Medicine is a 300,600 square foot building located in Danville, PA containing patient rooms, operating rooms, offices, and various other medical spaces. Construction has begun and the estimated completion is scheduled for Spring 2010.

The hospital is a nine story building with a lower basement level and a ninth floor mechanical penthouse. All of the floors and areas have not been designed yet and will be used for future hospital needs. This report looks at those spaces which are designed and currently being constructed, about half of the total future square footage. Ventilation air will be supplied by a total of five current air handling units and three future air handling units.

ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality, specifies the minimum ventilation rates for spaces based on area, occupancy, and classification. It also gives requirements for systems and equipment to help ensure adequate indoor air quality and lower the risks of health effects. The building was first evaluated with regards to section 5, Systems and Equipment, and appears to meet all specified requirements.

The next step was to then evaluate the building with regards to Section 6, Procedures. Using the Ventilation Rate Procedure described in Section 6.2, the hospital is well within all ventilation rates, greatly exceeding these requirements for many spaces. This is due to more stringent hospital standards being used for design in addition to 62.1.

ASHRAE Standard 90.1- 2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, specifies minimum requirement to ensure buildings are using energy efficiently. After evaluating the hospital with regards to this standard, it can be concluded that the building meets most, if not all, specifications.

Building Design Overview

Geisinger Hospital for Advanced Medicine is a 300,600 square foot building being constructed at Geisinger Main Campus in Danville, PA. The hospital will be nine stories with a lower basement level and a ninth floor penthouse. The building construction has begun and the expected completion is Spring 2010. The estimated construction cost total \$108 million.

The building design includes several shell spaces and floor designated for future use as the hospital's needs grow; these shell spaces total about half the square footage of the complete building. No future spaces will be analyzed in this report as little information is known about future intended uses.

The lower level is a partial shell floor but includes the dining room, toilet rooms, and staff areas. The first floor is also a partial shell floor but also includes the non-invasive cardiology areas. The second floor contains four operating rooms and space for an additional four. The third floor is a complete shell floor. The fourth floor contains a large mechanical room and the cardiology clinic. The fifth floor houses the cardiothoracic and vascular clinics, and lab clinics. The sixth floor is also a complete shell floor. The seventh and eighth floors are relatively the same and contain patient rooms.

Mechanical Systems Overview

The mechanical design includes eight air handling units, five to be installed now and three for future use. Other major mechanical work includes a new chiller building and an addition to the existing boiler house.

Air handling units AHU-4-1 and future AHU-4-2 will supply air for the operating rooms. The operating rooms require their own air handling units because the rooms need to be cooled to a lower temperature of 60°F and humidity levels must be more stringently controlled. AHU-4-1 will be installed now and sized to supply a current cfm of 12,000 of mixed outdoor air and return air and a future cfm of 18,000. AHU-4-2 is the future air handling unit and will be installed when the remaining four operating rooms are designed and constructed. Both of these air handling units will be located in the fourth floor mechanical room and both are designed for variable air volume. The mechanical system for the operating rooms also includes a energy recovery unit, which along with a cooling and heating coil pretempers the outside air and provides dehumidification.

Air handling unit AHU-4-3 will be installed now for the surgical pharmacy. AHU-4-3 supplies 2,700 cfm of return air to its spaces only cooling the air, reheat coils will take care of any heating loads. The air handling is located in the fourth floor mechanical room and is a constant volume unit. These areas will receive outdoor air ventilation through transfer air from surrounding spaces supplied by the south air handling units.

Air handling unit HV-4-4 is a future air handling unit for the kitchen hood make-up. This air handling unit will also be located in the fourth floor mechanical room and will be variable air volume.

The remaining areas of the building will be supplied by four air handling units, which includes one future unit. AHU-M-S1 and AHU-M-S2 will supply the south side of the building, both sized for a current cfm of 50,000 and a future cfm of 80,000. AHU-M-N2 and future AHU-M-N1 will supply the north side of the building. AHU-M-N2 will be sized for a current cfm of 80,000 and a future cfm of 77,000. The two south air handling units will be manifolded together and the two north air handling units will also be manifolded together. This provides one supply and return duct riser for the south side of the building and one supply and return duct riser for the north side of the building.

The hospital will use VAV boxes for most of the spaces and variable frequency drives will enable the air handling units to respond to the space loads. In spaces where positive pressure is required, according to AIA guidelines, return air boxes will be used. All supply air will be distributed through ceiling-mounted air devices.

Supplemental heating and cooling for several spaces is provided through fan coil units and radiant heating panels. Several spaces, mainly elevator machine rooms and electrical rooms will be provided with fan coil units to supply cooling and heating. Radiant heating panels will be installed at the perimeter glazing of levels three through eight.

ASHRAE 62.1 Section 5 Compliance

ASHRAE Standard 62.1 Section 5 discusses requirements for systems and equipment to help improve building indoor air quality.

5.1 Natural Ventilation

No natural ventilation is used so these requirements do not apply.

5.2 Ventilation Air Distribution

Ventilation air is designed to meet both standard 62.1 and AIA hospital guidelines. Balancing and testing requirements are included in the specifications.

5.3 Exhaust Duct Location

There are many spaces in the hospital that must be completely exhausted, including toilet rooms, isolation patient rooms, and operating rooms. All exhaust fans exhausting potentially harmful contaminants are located on the roof and mechanical level roof. All ductwork from exhausts is negatively pressurized.

5.4 Ventilation System Controls

All air handling units are provided with sufficient controls to ensure that spaces are kept at required conditions. Air handling units are controlled by a Johnson DDC system and contain variable frequency drives enabling them to adjust according to space loads.

5.5 Airstream Surfaces

All surfaces are both resistant to mold growth and erosion as required. Ductwork is constructed of sheet metal and therefore exempt from this requirement.

5.6 Outdoor Air Intakes

Outdoor air intakes for air handling units AHU-M-S1, AHU-M-S2, AHU-M-N2, and future AHU-M-N1 are located along the wall of the ninth floor penthouse. This is a significance distance from the ground and therefore from any traffic, parking, or landscaping. Air handling units AHU-4-2 and future HV-4-4 are located in the fourth floor mechanical rooms with intakes coming in from the walls. They are also far enough away from traffic, parking, or landscaping due to their distance from the ground. The exhaust from the building can be classified as significantly contaminated exhaust and therefore needs to be located a minimum of 15 feet from any air intakes. Most of these exhausts are located on the ninth floor of the penthouse, this takes them a more than adequate distance from the air handling units located on the fourth floor and also far enough away from the ninth floor penthouse intakes.

5.7 Local Capture of Contaminants

All necessary equipment and hoods are exhausted directly to the outdoors. Kitchen hood exhaust fans are located on the mechanical level roof. All other hoods and equipments exhaust fans are located on the roof.

5.8 Combustion Air

The only source of combustion air comes from the two new boilers. These boilers are located in the boiler house which puts them at a significant distance from the hospital. The boilers are both exhausted through the roof of the boiler house and contamination into the hospital is not a concern.

5.9 Particulate Matter Removal

The air handling unit for the operating rooms contains a MERV 8 pre-filter and a MERV 14 after-filter. The air handling unit for the surgical pharmacy contains a MERV 8 and MERV 13 pre-filter and a MERV 17 after-filter. The three air handling units for the remainder of the building contain a MERV 8 pre-filter and a MERV 14 after-filter. These filters all meet the MERV 6 requirement in this section.

5.10 Dehumidification Systems

The operating rooms are designed to 45% relative humidity. The surgical pharmacy is also designed to 45% relative humidity. The remainder of the building is designed for 30% relative humidity. This is well below the required 65% relative humidity for occupied spaces specified in the standard.

5.11 Drain Pans

The specifications require that insulated double wall sloped drain pans be installed under air handling unit cooling coils to comply with ASHRAE 62.1. Drain pans are also required for chilled water pumps and fan coil units. All drain pans are specified to be made of stainless steel, sloped, and insulated.

5.12 Finned-Tube Coils and Heat Exchangers

Coils all are required to have drain pans installed and meet the requirements for cleaning.

5.13 Humidifiers and Water- Spray Systems

The humidifiers use steam; all water used to produce steam is treated and monitored.

5.14 Access for Inspection, Cleaning, and Maintenance

Ventilation equipment includes access doors and sufficient room to inspect and maintain all equipment.

5.15 Building Envelope and Interior Surfaces

The building envelope includes vapor barriers in accordance with this section. All required piping will be insulated to prevent condensation on interior surfaces.

5.16 Buildings with Attached Parking Garages

The future parking garage will not be attached to the hospital so these requirements do not apply.

5.17 Air Classification and Recirculation

According to Table 5-2 and 6-1 most of the spaces in the building are classified as Class 1. The kitchen hood air is classified as Class 3 and will all be exhausted. Bathrooms are not listed but all air will be exhausted. Table E-1 which lists ventilation requirements for health care facilities does

not specify classes for the air. Regular patient rooms recirculate air and isolation rooms exhaust all air. The building meets the requirements for this section of the standard.

5.18 Requirements for Buildings Containing ETS Areas and ETS-Free Areas

Since the hospital is completely smoke-free these requirements do not apply.

ASHRAE 62.1 Section 6 Compliance

Assumptions

ASHRAE 62.1 Section 6 allows two procedures to be used for the design of ventilation systems, the Ventilation Rate Procedure or the IAQ Procedure. The following analysis used the Ventilation Rate Procedure with the following assumptions:

- Area of all spaces were calculated using the architectural plans.
- Occupancy was calculated using furniture layouts or other design conditions.
- Spaces not classified under the standard were typically analyzed as office spaces; this includes pharmacy areas, exam rooms, and mechanical rooms with occupancy.
- The zone air distribution effectiveness (E_z) was used for a ceiling supply of cool air. From Table 6-2, $E_z=1.0$ for all spaces.
- Diversity (D) was 1.0 for all spaces.
- Supply airflows were taken from mechanical ductwork drawings.
- All future spaces were not including in this analysis due to little or no information being available.
- Rooms utilizing only fan coil units were not including in this analysis.

ASHRAE 62.1 Section 6 Compliance

Definitions

A_z = zone floor area (ft²)

P_z = zone population

R_p = outdoor airflow rate required per person from Table 6-1

R_a = outdoor airflow rate required per unit area from Table 6-1

E_z = zone distribution effectiveness

V_{oz} = design zone outdoor airflow

Z_p = zone primary outdoor air fraction

V_{bz} = breathing zone outdoor airflow

V_{pz} = zone primary airflow

V_{ou} = uncorrected outdoor air intake

D = occupant diversity

P_s = system population

V_{ot} = outdoor air intake flow

ASHRAE 62.1 Section 6 Compliance

Ventilation Rate Procedure

- Determine floor areas (A_z) and zone population (P_z) for each space.
- Determine occupancy classification for each space.
- Calculate the breathing zone outdoor air flow rate (V_{bz}) using values for outdoor airflow rate required per person (R_p) and outdoor airflow rate required per unit area (R_a) from Table 6-1.
 - $V_{bz} = (R_p * P_z) + (R_a * A_z)$
- Calculate zone outdoor airflow (V_{oz}) using zone air distribution efficiency (E_z) from Table 6-2.
 - $V_{oz} = V_{bz} * E_z$
- Calculate zone primary outdoor air fraction (Z_p) for each space using zone primary airflow (V_{pz})
 - $Z_p = V_{oz} / V_{pz}$
- Determine system ventilation effectiveness (E_v) from Table 6-3, using the Z_p for each system.
- Calculate the uncorrected outdoor air intake (V_{ou}) using the occupant diversity (D).
 - $V_{ou} = D * \sum_{\text{all zones}} (R_p * P_z) + \sum_{\text{all zones}} (R_a * A_z)$
- Calculate the outdoor air intake flow (V_{ot}).
 - $V_{ot} = V_{ou} / E_v$

ASHRAE 62.1 Section 6 Compliance

Discussion of Results

The following tables shows the total airflow rates required for each air handling unit, individual calculations for each space can be found in Appendix A.

	Service	V_{ou}	Max Z_p	E_v	V_{ot}	Min. OA Supplied	Complies?
AHU-4-1	Operating Rooms	840	0.07	1.0	840	2400	YES
AHU-4-3	Surgical Pharmacy	55.7	0.03	1.0	55.7	0	NO
AHU-M-N2	North Side	6746.04	0.27	0.8	8432.55	19250	YES
AHU-M-S1	South Side	4743.16	0.30	0.8	5928.95	15000	YES
AHU-M-S2	South Side	4743.16	0.30	0.8	5928.95	15000	YES

This table shows that air handling units AHU-4-1, AHU-M-N2, AHU-M-S1, and AHU-M-S2 all well exceed the required amount of ventilation air for the spaces. The building was designed using the Guidelines for Design and Construction of Hospitals and Health Care Facilities, 2006 Edition, this standard recommends much higher ventilation rates for spaces in hospitals.

AHU-4-3 appears to not meet the requirements of ASHRAE Standard 62.1 but the spaces actually use transfer air from the south air handling units to supply their outside air. Ducts transfer 1,100 cfm into the space from the surrounding areas. Since the air from the south air handling units is comprised of about 30% outdoor air, this supplies 330 cfm of outdoor air to the surgical pharmacy, well above the 56 cfm required.

ASHRAE 90.1 Compliance

Section 5 Building Envelope

The hospital is located in Danville, PA, part of zone 5A. Since the building vertical fenestration area is less than 40% of the gross total wall, and the skylight fenestration area is less than 5% of the gross roof area, according to section 5.2 the prescriptive building envelope requirements in section 5.5 apply.

The building is constructed of the following wall assemblies, precast wall, formawall system, concept wall system, spandrel glass. There are three roof system, metal deck, concrete deck, and green roof. The following table compares the actual U-Values of the building with the requirements in Table 5.5-5:

	Actual U-Value	Max U-Value	Complies?
Precast Wall	0.054	0.090	YES
Formawall System	0.061	0.113	YES
Concept Wall System	0.062	0.113	YES
Spandrel Glass	0.058	0.064	YES
Roof (Metal Deck)	0.040	0.065	YES
Roof (Concrete Deck)	0.039	0.048	YES
Roof (Green Roof)	0.046	0.048	YES

All of the wall assemblies comply with the standard.

The building also uses two types of glazing, the following table shows complies with the requirements in Table 5.5-5:

	Actual U-Value	Actual SHGC	Max U-Value	Max SHGC	Complies?
Glazing 1	0.46	0.26	0.55	0.4	YES
Glazing 2	0.46	0.27	0.55	0.4	YES

All of the glazing complies with the standard.

Section 6 Heating, Ventilation, and Air-Conditioning

The hospital is a new building and therefore must meet the requirements set in section 6.2. Section 6.2 lists the sections of compliance. Due to the buildings size section 6.4, mandatory provisions, and section 6.5, prescriptive path must be followed.

There will be two new boilers for this building. One hot water, gas fired, B-4, and the other electric, B-5. Table 6.8.1F states the requirements for gas-fired boilers. Boiler B-4 has an input of 11,824 MBH and according to the table requires a minimum efficiency of 80%, the efficiency of this boiler is 87.5% and meets requirements.

Other requirements in section 6.4 include labeling or equipment, thermostats for each zone, and necessary controls. The hospital meets all of these requirements. In regards to off-hour operation the HVAC system is intended to operate continuously and is exempt from these requirements. All necessary dampers are specified in the mechanical drawings and specifications. Demand control ventilation will be installed in high occupancy areas with CO₂ sensors in return air ducts to monitor space air. Fire/smoke dampers will be installed in every duct entrance and exit from shaft enclosure. Supply and return air duct smoke detectors will be installed in each air handling unit. Smoke dampers and duct-mounted smoke detectors will be installed where ever a duct crosses a smoke barrier.

Section 6.4.4 lists requirements for HVAC insulation. All supply, return, outside air, dishwasher exhaust, and grease exhaust will include exterior insulation.

Section 6.4.2 lists requirements for duct and plenum leakage. According to the specifications all ducts will be sealed according to seal Class A and leakage Class C. Class A is well within the requirements for duct seal level.

Section 7 Service Water Heating

The hospital is a new building and according to section 7.1 of the standard must comply with section 7.2. Section 7.2 lists the sections of compliance. The hot water is supplied by two semi instantaneous hot waters generators powered by steam. An equivalent type could not be found in Table 7.8, the standard states that equipment not listed has no minimum performance requirements. All piping insulation meets the requirements set by standard 7.4.3.

Section 8 Power

All feeders are sized for a maximum voltage drop of less that 2% and all branch circuits are sized for a maximum voltage drop of less than 3%.

Section 9 Lighting

The hospital may be reviewed for compliance by either the space-by-space method or the building area method according to section 9.2 of the standard. Using the building area method, section 9.5, according to Table 9.5.1 states that a hospital's lighting density be below 1.2 W/sf. The table below shows the total square footage and watts for the hospital.

Total Area (sf)	135951
Total Watts	153406
Watts/SF	1.13

According to this table the hospital meets this section of the standard. Refer to Appendix for individual space square footages and watts.

In section 9.4, the standard states requirements for lighting control, tandem wiring, and exit signs. In compliance with this standard, all required spaces have occupancy sensors. Spaces where it is necessary for patient care and spaces that are intended for 24-hour operation are exempt from this requirement and therefore do not have occupancy sensors. Tandem wiring requirements are met and two-lamp tandem-wired ballasts are used where required. The standard requires exit signs to be no more than 5 watts per space, the exit signs specified for the hospital are all 3 watts, well below the standard.

Appendix A – Ventilation Schedules

North Spaces

Ventilation Schedule- Lower Level North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{oz}	Z _p
0L012	Receiving	Receiving	460	-	0.06	-	27.6	1.0	27.6	250	0.11
0L017	Corridor	Corridor	394	-	0.06	-	23.64	1.0	23.64	200	0.12
0L025	Corridor	Corridor	456	-	0.06	-	27.36	1.0	27.36	460	0.06
0L037	Corridor	Corridor	474	-	0.06	-	28.44	1.0	28.44	500	0.06
0L069	Dining (North)	Cafeteria Dining	3224	210	0.18	7.5	2155.32	1.0	2155.32	4200	0.51

Ventilation Schedule- Level 1 North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{oz}	Z _p
01004	Switchgear	Storage Room	500	-	0.12	-	60	1.0	60	250	0.24
01005	Family Toilet	-	65	-	-	-	-	1.0	-	0	-
01006	Men's Toilet	-	219	-	-	-	-	1.0	-	0	-
01007	Women's Toilet	-	273	-	-	-	-	1.0	-	0	-
01008	Corridor	Corridor	871	-	0.06	-	52.26	1.0	52.26	500	0.10
01013	Reception	Reception Area	149	4	0.06	5	28.94	1.0	28.94	210	0.14
01014	Fire Control Room	Office Space	114	1	0.06	5	11.84	1.0	11.84	100	0.12
01015, 20	Corridor	Corridor	422	-	0.06	-	25.32	1.0	25.32	180	0.14
01017	Elec.	Elec. Equipment Room	144	-	-	-	-	1.0	-	-	-
01018	I.T.	Elec. Equipment Room	100	-	-	-	-	1.0	-	-	-
01021	Exit Passage	Corridor	302	-	0.06	-	18.12	1.0	18.12	0	-
01022, 01067	Corridor	Corridor	1167	-	0.06	-	70.02	1.0	70.02	525	0.13
01023	Lobby	Lobbies	2333	-	0.06	-	139.98	1.0	139.98	5500	0.03
	Dining Hall (1/2)	Cafeteria Dining	475	-	0.18	7.5	85.5	1.0	85.5	4500	0.02

Ventilation Schedule- Level 4 North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _s	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
04001	Family Waiting	Reception	765	10	0.06	5	95.9	1.0	95.9	1200	0.08
04005	Corridor	Corridor	634	-	0.06	-	38.04	1.0	38.04	400	0.10
04005A	Corridor	Corridor	162	-	0.06	-	9.72	1.0	9.72	80	0.12
04006, 35, 56	Corridor / Dictation	Office Space	852	4	0.06	5	71.12	1.0	71.12	1200	0.06
04007	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	180	0.09
04008	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	175	0.09
04009	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	175	0.09
04010	PA Work Room	Office Space	333	10	0.06	5	69.98	1.0	69.98	600	0.12
04015	Consult	Conference/Meeting	182	8	0.06	5	50.92	1.0	50.92	240	0.21
04016	Patient Toilet	-	53	-	-	-	-	1.0	-	0	-
04017	Patient Toilet	-	47	-	-	-	-	1.0	-	0	-
04018	Check In / Check Out	Reception	525	4	0.06	5	51.5	1.0	51.5	450	0.11
04018A	Office	Office Space	156	2	0.06	5	19.36	1.0	19.36	200	0.10
04019	Patient Toilet	-	49	-	-	-	-	1.0	-	0	-
04020	Treatment Room	Office Space	288	3	0.06	5	32.28	1.0	32.28	675	0.05
04025	On-Call	Office Space	163	1	0.06	5	14.78	1.0	14.78	120	0.12
04025 A	On-Call Toilet	-	75	-	-	-	-	1.0	-	0	-
04026	Dictation	Office Space	38	1	0.06	5	7.28	1.0	7.28	90	0.08
04027	Exam 1	Office Space	106	1	0.06	5	11.36	1.0	11.36	120	0.09
04028	Exam 2	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04029	Exam 3	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
04030	Exam 4	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04031	Patient Toilet	-	49	-	-	-	-	1.0	-	0	-
04032	Patient Toilet	-	49	-	-	-	-	1.0	-	0	-
04033	Vitals	Office Space	102	2	0.06	5	16.12	1.0	16.12	180	0.09
04034	Passage	Corridor	479	-	0.06	-	28.74	1.0	28.74	200	0.14
04036	Exam 9	Office Space	107	1	0.06	5	11.42	1.0	11.42	125	0.09
04037	Exam 8	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04038	Reading Room	Office Space	288	9	0.06	5	62.28	1.0	62.28	700	0.09
04038 B	Dictation	Office Space	86	3	0.06	5	20.16	1.0	20.16	250	0.08
4039, 73	Corridor	Corridor	614	-	0.06	-	36.84	1.0	36.84	250	0.15
04043	Exam 7	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
04044	Exam 6	Office Space	109	1	0.06	5	11.54	1.0	11.54	120	0.10
04045	Exam 5	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04046	Clean Supply	Office Space	206	-	0.06	5	12.36	1.0	12.36	110	0.11
04047	Nurse Station	Office Space	223	5	0.06	5	38.38	1.0	38.38	450	0.09
04048	Passage	Corridor	664	-	0.06	-	39.84	1.0	39.84	1000	0.04
04049	Exam 10	Office Space	107	1	0.06	5	11.42	1.0	11.42	125	0.09
04050	Exam 11	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04051	Exam 12	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
04052	Exam 13	Office Space	104	1	0.06	5	11.24	1.0	11.24	120	0.09
04053 / 55	Subwaiting / Passage	Reception	428	7	0.06	5	60.68	1.0	60.68	250	0.24
04054	Patient Toilet	-	52	-	-	-	-	1.0	-	0	-
04057	Lab 8	Laboratory	179	3	0.18	10	62.22	1.0	62.22	500	0.12
04058	Doppler Lab 7	Laboratory	165	2	0.18	10	49.7	1.0	49.7	500	0.10
04059	Soiled Utility	Storage	120	-	0.12	-	14.4	1.0	14.4	65	0.22
04061	Lab 5	Laboratory	201	3	0.18	10	66.18	1.0	66.18	500	0.13
04062	Exam 14	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
04063	Equip. Storage	Storage	79	-	0.12	-	9.48	1.0	9.48	50	0.19
04064	Exam 15	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
04065	Exam 16	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
04068	Equipment	Storage	111	-	0.12	-	13.32	1.0	13.32	50	0.27
04070	Lab 6	Laboratory	181	3	0.18	10	62.58	1.0	62.58	500	0.13

Ventilation Schedule- Level 5 North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _s	R _p	V _{bz}	E _z	V _{oz}	V _{oz}	Z _p
05001	Family Waiting	Reception	726	10	0.06	5	93.56	1.0	93.56	1000	0.09
05005	Corridor	Corridor	526	-	0.06	-	31.56	1.0	31.56	220	0.14
05006	Holter	Office Space	130	2	0.06	5	17.8	1.0	17.8	200	0.09
05007	EKG	Office Space	578	8	0.06	5	74.68	1.0	74.68	780	0.10
05012	Patient Toilet	-	50	-	-	-	-	1.0	-	0	-
05013	Patient Toilet	-	50	-	-	-	-	1.0	-	0	-
05014	Check In / Out	Reception	573	8	0.06	5	74.38	1.0	74.38	600	0.12
05019,31,32,41,46	Corridor/Dictation	Office Space	1140	4	0.06	5	88.4	1.0	88.4	1200	0.07
05020	Research Lab Room	-	196	2	-	-	-	1.0	0	350	0.00
05021	Patient Toilet	-	49	-	-	-	-	1.0	-	0	-
05022	Office	Office Space	98	1	0.06	5	10.88	1.0	10.88	130	0.08
05023	Exam 1	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05024	Exam 2	Office Space	106	1	0.06	5	11.36	1.0	11.36	120	0.09
05025	Exam 3	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05026	Exam 4	Office Space	106	1	0.06	5	11.36	1.0	11.36	120	0.09
05027	Exam 5	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05028	Patient Toilet	-	49	1	-	-	-	1.0	-	0	-
05029	Vitals	Office Space	98	2	0.06	5	15.88	1.0	15.88	160	0.10
05030	Passage	Corridor	329	1	0.06	-	19.74	1.0	19.74	140	0.14
05033	Exam 6	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05034	Exam 7	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
05035	Exam 8	Office Space	110	1	0.06	5	11.6	1.0	11.6	120	0.10
05036	Exam 9	Office Space	110	1	0.06	5	11.6	1.0	11.6	120	0.10
05037	Exam 10	Office Space	105	1	0.06	5	11.3	1.0	11.3	120	0.09
05038	Clean Supply	Storage	192	1	0.12	-	23.04	1.0	23.04	130	0.18
05039	Nurse Station	Office Space	222	5	0.06	5	38.32	1.0	38.32	450	0.09
05040, 54	Corridor/Dictation	Office Space	875	3	0.06	5	67.5	1.0	67.5	1400	0.05
05042	Exam 11	Office Space	107	1	0.06	5	11.42	1.0	11.42	120	0.10
05043	Exam 12	Office Space	105	1	0.06	5	11.3	1.0	11.3	120	0.09
05044	Exam 13	Office Space	111	1	0.06	5	11.66	1.0	11.66	120	0.10
05045	Passage	Corridor	521	-	0.06	-	31.26	1.0	31.26	210	0.15
05047	Soiled Utility	Corridor	84	-	0.06	-	5.04	1.0	5.04	50	0.10
05048	Exam 14	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05049	Exam 15	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05050	Exam 16	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05051	Patient Toilet	-	56	-	-	-	-	1.0	-	0	-
05052	Exam 17	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05053	Exam 18	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05055	Staff Toilet	-	59	-	-	-	-	1.0	-	0	-
05056	Equipment Sys	Storage	84	-	0.12	-	10.08	1.0	10.08	50	0.20
05057	On-Call	Office Space	133	1	0.06	5	12.98	1.0	12.98	120	0.11
05057 A	On-Call Toilet	-	71	-	-	-	-	1.0	-	0	-
05058	Exam 19	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05059	Exam 20	Office Space	108	1	0.06	5	11.48	1.0	11.48	120	0.10
05060	Office 19	Office Space	109	1	0.06	5	11.54	1.0	11.54	180	0.06
05061	Passage	Corridor	134	-	0.06	-	8.04	1.0	8.04	60	0.13
05062	Reading Room	Office Space	94	3	0.06	5	20.64	1.0	20.64	140	0.15
05063	Electrical Room	-	142	-	-	-	-	1.0	-	0	-
05064	Data Room	-	100	-	-	-	-	1.0	-	0	-
05065	Equipment Storage	Storage	107	-	0.12	-	12.84	1.0	12.84	50	0.26
05066	Passage	Corridor	94	-	0.06	5	5.64	1.0	5.64	50	0.11
05067	Exam 21	Office Space	106	1	0.06	5	11.36	1.0	11.36	120	0.09
05068	Exam 22	Office Space	106	1	0.06	5	11.36	1.0	11.36	120	0.09
05069	Office 18	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05070	Shared Office	Office Space	104	2	0.06	5	16.24	1.0	16.24	160	0.10
05071	Office 17	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05089	Corridor	Corridor	294	-	0.06	-	17.64	1.0	17.64	120	0.15

Ventilation Schedule- Level 7 North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _b	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
07001 A	Patient Room	Patient Room	247	1	-	25	25	1.0	25	400	0.06
07001 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07002 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07002 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07003 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07003 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07004 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07004 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07005 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07005 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07006 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07006 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07007 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07007 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07008 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07008 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07024 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07024 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07025 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07025 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07026 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07026 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07027 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07027 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07028 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07028 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07029 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07029 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07030 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07030 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07031 A	Waiting	Reception	712	10	0.06	5	92.72	1.0	92.72	1000	0.09
07031 B-C	Concierge / WC Stor.	Reception	219	1	0.06	5	18.14	1.0	18.14	165	0.11
07031 D	Family Waiting	Reception	92	4	0.06	5	25.52	1.0	25.52	130	0.20
07032	Consult	Office Space	74	3	0.06	5	19.44	1.0	19.44	90	0.22
07033	Toilet	-	50	-	-	-	-	1.0	-	0	-
07034	Toilet	-	50	-	-	-	-	1.0	-	0	-
07035	Toilet	-	52	-	-	-	-	1.0	-	0	-
07036 A	On Call	Office Space	117	1	0.06	5	12.02	1.0	12.02	125	0.10
07036 B	Toilet	-	60	-	-	-	-	1.0	-	0	-
07037 A-D	Nurse Station	Office Space	313	6	0.06	5	48.78	1.0	48.78	680	0.07
07038	Clean Work	Office Space	105	-	0.06	-	6.3	1.0	6.3	65	0.10
07039	Meds	Office Space	71	-	0.06	5	4.26	1.0	4.26	140	0.03
07040	Team Coordination	Office Space	171	4	0.06	5	30.26	1.0	30.26	340	0.09
07041	Nurse Manager	Office Space	105	1	0.06	5	11.3	1.0	11.3	110	0.10
07042	Other Services	Office Space	59	-	0.06	-	3.54	1.0	3.54	50	0.07
07043	Soiled Utility	Storage	68	-	0.12	-	8.16	1.0	8.16	50	0.16
07044	Powered Equip. Storage	Storage	170	-	0.12	-	20.4	1.0	20.4	80	0.26
07045	Equipment Storage	Storage	217	-	0.12	-	26.04	1.0	26.04	110	0.24
07046	Lift Storage	Storage	43	-	0.12	-	5.16	1.0	5.16	30	0.17
07047	Electrical Room	Elec. Equipment Room	142	-	-	-	-	1.0	-	0	-
07048	Data Room	Elec. Equipment Room	100	-	-	-	-	1.0	-	0	-
07069	Corridor	Corridor	362	-	0.06	-	21.72	1.0	21.72	150	0.14
07070 A-F	Corridor / N.S.	Office Space	1066	-	0.06	5	63.96	1.0	63.96	600	0.11
07074 A-E	Corridor / N.S.	Office Space	1161	-	0.06	5	69.66	1.0	69.66	600	0.12

Ventilation Schedule- Level 8 North											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _b	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
08001 A	Patient Room	Patient Room	244	1	-	25	25	1.0	25	450	0.06
08001 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08002 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08002 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08003 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08003 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08004 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08004 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08005 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08005 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08006 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08006 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08007 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08007 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08008 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08008 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08024 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08024 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08025 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08025 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08026 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08026 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08027 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08027 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08028 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08028 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08029 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08029 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08030 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08030 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08031 A	Family Waiting	Reception	764	10	0.06	5	95.84	1.0	95.84	1200	0.08
08031 B-C	Concierge / WC Stor.	Reception	219	1	0.06	5	18.14	1.0	18.14	225	0.08
08031 D	Family Waiting	Reception	92	4	0.06	5	25.52	1.0	25.52	160	0.16
08032	Consult	Office Space	74	3	0.06	5	19.44	1.0	19.44	100	0.19
08033	Toilet	-	50	-	-	-	-	1.0	-	0	-
08034	Toilet	-	50	-	-	-	-	1.0	-	0	-
08035	Toilet	-	52	-	-	-	-	1.0	-	0	-
08036 A	On Call	Office Space	117	1	0.06	5	12.02	1.0	12.02	150	0.08
08036 B	Toilet	-	60	-	-	-	-	1.0	-	0	-
08037 A-D	Nurse Station	Office Space	313	6	0.06	5	48.78	1.0	48.78	760	0.06
08038	Clean Work	Office Space	105	-	0.06	5	6.3	1.0	6.3	65	0.10
08039	Meds	Office Space	71	-	0.06	-	4.26	1.0	4.26	160	0.03
08040	Team Coordinator	Conference/Meeting	171	4	0.06	5	30.26	1.0	30.26	400	0.08
08041	Nurse Manager	Office Space	105	1	0.06	5	11.3	1.0	11.3	140	0.08
08042	Other Services	Office Space	59	-	0.06	5	3.54	1.0	3.54	50	0.07
08043	Soiled Utility	Office Space	68	-	0.06	5	4.08	1.0	4.08	60	0.07
08044	Powered Equip. Storage	Storage	170	-	0.12	-	20.4	1.0	20.4	80	0.26
08045	Equipment Storage	Storage	217	-	0.12	-	26.04	1.0	26.04	115	0.23
08046	Lift Storage	Storage	43	-	0.12	-	5.16	1.0	5.16	30	0.17
08047	Electrical Room	Elec. Equipment Room	142	-	-	-	-	1.0	-	0	-
08048	Data Room	Elec. Equipment Room	100	-	-	-	-	1.0	-	0	-
08069	Corridor	Corridor	362	-	0.06	-	21.72	1.0	21.72	225	0.10
08070 A-F	Corridor / N.S.	Office Space	1066	-	0.06	5	63.96	1.0	63.96	900	0.07
08074 A-E	Corridor / N.S.	Office Space	1161	-	0.06	5	69.66	1.0	69.66	660	0.11

South Spaces

Ventilation Schedule- Lower Level South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
0L047	Corridor	Corridor	1336	-	0.06	-	80.16	1.0	80.16	800	0.10
0L055_59	Corridor	Corridor	432	-	0.06	-	25.92	1.0	25.92	200	0.13
0L056	Zone Maintenance	Storage Room	293	-	0.12	-	35.16	1.0	35.16	140	0.25
0L057	Storage	Storage Room	91	-	0.12	-	10.92	1.0	10.92	75	0.15
0L058	Linen	Storage Room	114	-	0.12	-	13.68	1.0	13.68	60	0.23
	Elevator Machine	Elevator Machine Room	358	-	0.12	-	42.96	1.0	42.96	160	0.27
0L064	Toilet Passage	Corridor	77	-	0.06	-	4.62	1.0	4.62	50	0.09
0L063	Women's Toilet	-	180	-	-	-	-	1.0	-	0	-
0L062	Family Toilet	-	59	-	-	-	-	1.0	-	0	-
0L062A	Family Toilet	-	59	-	-	-	-	1.0	-	0	-
0L062B	Family Toilet	-	70	-	-	-	-	1.0	-	0	-
0L065	Men's Toilet	-	179	-	-	-	-	1.0	-	0	-
0L066	Dining Corridor	Corridor	750	-	0.06	-	45	1.0	45	1200	0.04
0L069	Dining (South)	Cafeteria Dining	3064	210	0.18	7.5	2126.52	1.0	2126.52	4200	0.51

Ventilation Schedule- Level 1 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
01073	Resource Center	Office Space	390	5	0.06	5	48.4	1.0	48.4	800	0.06
01120	Waiting	Reception	602	19	0.06	5	131.12	1.0	131.12	600	0.22
01121	Equip Sys.	Storage	61	-	0.12	-	7.32	1.0	7.32	50	0.15
01125	Passage	Corridor	483	-	0.06	-	28.98	1.0	28.98	200	0.14
01126	Nuclear Camera	Office Space	503	2	0.06	5	40.18	1.0	40.18	1300	0.03
01131	DSE	Office Space	180	2	0.06	5	20.8	1.0	20.8	320	0.07
01132	DSE	Office Space	176	2	0.06	5	20.56	1.0	20.56	320	0.06
01133	Exercise Room	Health Club	197	2	0.06	20	51.82	1.0	51.82	210	0.25
01134	Exercise Room	Health Club	204	2	0.06	20	52.24	1.0	52.24	210	0.25
01135	Prep	Office Space	76	-	0.06	5	4.56	1.0	4.56	50	0.09
01136	Toilet Room	-	43	-	-	-	-	1.0	-	0	-
01137	Check In / Check Out	Reception	194	4	0.06	5	31.64	1.0	31.64	400	0.08
01138	Injection Room	Office Space	76	2	0.06	5	14.56	1.0	14.56	110	0.13
01138A	Injection Toilet	-	37	-	-	-	-	1.0	-	0	-
01139	Soiled Utility	Office Space	40	-	0.06	5	2.4	1.0	2.4	50	0.05
01140_53_54_71	Corridor	Corridor	1160	-	0.06	-	69.6	1.0	69.6	460	0.15
01141	Tee	Office Space	180	2	0.06	5	20.8	1.0	20.8	450	0.05
01142	Tee	Office Space	176	2	0.06	5	20.56	1.0	20.56	450	0.05
01143	Echo	Office Space	169	2	0.06	5	20.14	1.0	20.14	320	0.06
01144	Echo	Office Space	164	2	0.06	5	19.84	1.0	19.84	320	0.06
01145	Echo	Office Space	163	2	0.06	5	19.78	1.0	19.78	320	0.06
01146	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
01147	Toilet Room	-	48	-	-	-	-	1.0	-	0	-
01148	Toilet Room	-	48	-	-	-	-	1.0	-	0	-
01149	Clean Supply	Office Space	119	-	0.06	5	7.14	1.0	7.14	75	0.10
01150-52	Passage	Corridor	534	-	0.06	-	32.04	1.0	32.04	225	0.14
01155	Nurse Techs	Office Space	576	18	0.06	5	124.56	1.0	124.56	1450	0.09
01160	Reading Room	Office Space	317	7	0.06	5	54.02	1.0	54.02	750	0.07
01161	Consult	Office Space	77	4	0.06	5	24.62	1.0	24.62	140	0.18
01162	Toilet Room	-	51	-	-	-	-	1.0	-	0	-
01163	Echo	Office Space	160	2	0.06	5	19.6	1.0	19.6	450	0.04
01164	Echo	Office Space	154	2	0.06	5	19.24	1.0	19.24	450	0.04
01165	Passage	Corridor	223	-	0.06	-	13.38	1.0	13.38	100	0.13
01166	Manager's Office	Office Space	103	1	0.06	5	11.18	1.0	11.18	110	0.10
01167	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	185	0.09
01168	Echo	Office Space	153	2	0.06	5	19.18	1.0	19.18	450	0.04
01170	Corridor	Corridor	3353	-	0.06	-	201.18	1.0	201.18	1520	0.13
01171A	Inpatient Waiting	Reception	170	2	0.06	5	20.2	1.0	20.2	110	0.18
01171B	Linen Chute	-	14	-	-	-	-	1.0	-	0	-
01172	Passage	Corridor	250	-	0.06	-	15	1.0	15	130	0.12
01173	Secretary Station	Office Space	46	1	0.06	5	7.76	1.0	7.76	100	0.08
01174	Trash	-	59	-	-	-	-	1.0	-	0	-
01175	Cardiac Rehab	Health Club	1108	20	0.06	20	466.48	1.0	466.48	1800	0.26
01175A	Women's Locker	Office Space	144	2	0.06	5	18.64	1.0	18.64	125	0.15
01175B	Women's Toilet	-	55	-	-	-	-	1.0	-	0	-
01175C	Women's Dressing Room	-	41	-	-	-	-	1.0	-	0	-
01175D	Women's Shower Room	-	42	-	-	-	-	1.0	-	0	-
01175E	Men's Locker	Health Club	151	2	0.06	5	19.06	1.0	19.06	100	0.19
01175F	Men's Toilet	-	53	-	-	-	-	1.0	-	0	-
01175G	Men's Dressing Room	-	43	-	-	-	-	1.0	-	0	-
01175H	Men's Shower Room	-	42	-	-	-	-	1.0	-	0	-
01175J	Storage	Storage Room	69	-	0.12	-	8.28	1.0	8.28	50	0.17
01180_89	Corridor / Elev. Lobby	Corridor	472	-	0.06	-	28.32	1.0	28.32	210	0.13
01185	Staff Lounge	Break Room	282	8	0.06	5	56.92	1.0	56.92	400	0.14
01188	Conference	Conference/Meeting	152	10	0.06	5	59.12	1.0	59.12	400	0.15
	Dining Perimeter	Cafeteria Dining	475	-	0.18	7.5	85.5	1.0	85.5	4500	0.02

Ventilation Schedule- Level 2 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
02040	Restricted Corr.	Corridor	915	-	0.06	-	54.9	1.0	54.9	400	0.14
02041	Pump Room	Office Space	456	2	0.06	5	37.36	1.0	37.36	780	0.05
02042	Restricted Corr.	Corridor	951	-	0.06	-	57.06	1.0	57.06	400	0.14
02044, 46, 49, 52, 54	Clean Core	Office Space	1525	8	0.06	5	131.5	1.0	131.5	1000	0.13
02045	Equipment Storage	Storage Room	369	-	0.12	-	44.28	1.0	44.28	250	0.18
02048	Restricted Corr.	Corridor	879	-	0.06	-	52.74	1.0	52.74	1000	0.05
02050 A	Housekeeping	Office Space	95	-	0.06	5	5.7	1.0	5.7	50	0.11
02053	Substerile	Storage Room	157	-	0.12	-	18.84	1.0	18.84	900	0.02
02056, 64	Restricted Corr.	Corridor	834	-	0.06	-	50.04	1.0	50.04	340	0.15
02058	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
02059	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
02060	Trash / Linen	Corridor	229	-	0.06	-	13.74	1.0	13.74	200	0.07
02061	Blood Storage	Storage Room	110	-	0.12	-	13.2	1.0	13.2	530	0.02
02062	Surgical Vestibule	Corridor	167	-	0.06	-	10.02	1.0	10.02	70	0.14
02063	Surgical Pharmacy	Office Space	434	-	0.06	5	26.04	1.0	26.04	1100	0.02
02065	Equipment Storage	Office Space	141	1	0.06	5	13.46	1.0	13.46	100	0.13
02066	Shared Office	Office Space	109	2	0.06	5	16.54	1.0	16.54	280	0.06
02067	Equip. Tech Shop	Office Space	221	2	0.06	5	23.26	1.0	23.26	215	0.11
02068	Corridor / Elev. Lobby	Corridor	767	-	0.06	-	46.02	1.0	46.02	340	0.14
02069	Surg. Path Lab	Office Space	912	9	0.06	5	99.72	1.0	99.72	2650	0.04
2069C	Tissue Storage	Storage Room	78	-	0.12	-	9.36	1.0	9.36	50	0.19
02070	Anesthesia Workroom	Office Space	1154	5	0.06	5	94.24	1.0	94.24	1500	0.06
02071	Visitor Waiting	Reception	84	2	0.06	5	15.04	1.0	15.04	80	0.19
2073	Corridor	Corridor	69	-	0.06	-	4.14	1.0	4.14	50	0.08

Ventilation Schedule- Level 4 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
04066	Staff Toilet	-	65	-	-	-	-	1.0	-	0	-
04067	Sys/Equip	Storage	87	-	0.12	-	10.44	1.0	10.44	50	0.21
04069	Tech	Office Space	670	17	0.06	5	125.2	1.0	125.2	1320	0.09
04069 A	Alcove	Reception	73	4	0.06	5	24.38	1.0	24.38	100	0.24
04071	Passage	Corridor	215	-	0.06	-	12.9	1.0	12.9	110	0.12
04072	Patient Holding	Reception	372	6	0.06	5	52.32	1.0	52.32	370	0.14
04077	Elec.	Electrical Equipment Room	144	-	0.06	-	8.64	1.0	8.64	-	-
04078	Data	Electrical Equipment Room	100	-	0.06	-	6	1.0	6	-	-
04079, 84	Clerical	Office Space	314	4	0.06	5	38.84	1.0	38.84	470	0.08
04080	Office 10	Office Space	113	1	0.06	5	11.78	1.0	11.78	220	0.05
04081	Office 9	Office Space	113	1	0.06	5	11.78	1.0	11.78	220	0.05
04082	Passage	Corridor	139	-	0.06	-	8.34	1.0	8.34	60	0.14
04083	Print/Copy/Passage	Office Space	270	-	0.06	5	16.2	1.0	16.2	140	0.12
04085	Office 8	Office Space	115	1	0.06	5	11.9	1.0	11.9	180	0.07
04086	Fellows	Office Space	452	15	0.06	5	102.12	1.0	102.12	1050	0.10
04090	Reading	Office Space	174	6	0.06	5	40.44	1.0	40.44	460	0.09
04091	Lab 4	Laboratory	172	3	0.18	10	60.96	1.0	60.96	520	0.12
04092	Lab 3	Laboratory	224	3	0.18	10	70.32	1.0	70.32	500	0.14
04093	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	160	0.10
04094	Manager Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	110	0.15
04095	Office 7	Office Space	113	1	0.06	5	11.78	1.0	11.78	200	0.06
04096	Lab 2	Laboratory	163	3	0.18	10	59.34	1.0	59.34	450	0.13
04097	Conference	Conference/Meeting	510	20	0.06	5	130.6	1.0	130.6	640	0.20
04102	Office 6	Office Space	114	1	0.06	5	11.84	1.0	11.84	200	0.06
04103	Lab 1	Laboratory	159	3	0.18	10	58.62	1.0	58.62	450	0.13
04104	Office 5	Office Space	115	1	0.06	5	11.9	1.0	11.9	180	0.07
04105	Passage	Corridor	722	-	0.06	-	43.32	1.0	43.32	300	0.14
04106	Office 4	Office Space	113	1	0.06	5	11.78	1.0	11.78	200	0.06
04107	Office 3	Office Space	114	1	0.06	5	11.84	1.0	11.84	200	0.06
04108	Office 2	Office Space	115	1	0.06	5	11.9	1.0	11.9	180	0.07
04109	Office 1	Office Space	113	1	0.06	5	11.78	1.0	11.78	200	0.06
04110	Storage	Storage	1857	-	0.12	-	222.84	1.0	222.84	800	0.28
04111, 35	Corridor	Corridor	1417	-	0.06	-	85.02	1.0	85.02	650	0.13
04112	Mechanical Room	-	4350	-	-	-	-	1.0	-	0	-
04130	Director's Office	Office Space	174	2	0.06	5	20.44	1.0	20.44	300	0.07
04131	Director's Office	Office Space	172	2	0.06	5	20.32	1.0	20.32	300	0.07
04132	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
04133	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
04134	Janitor's Closet	Corridor	96	-	0.06	-	5.76	1.0	5.76	50	0.12
04136	Locker Room	Office Space	194	-	0.06	-	11.64	1.0	11.64	120	0.10
04137	Dining / Break	Cafeteria Dining	540	16	0.18	7.5	217.2	1.0	217.2	960	0.23
04138	Linen Chute	-	53	-	-	-	-	1.0	-	0	-
04145	Elev. Lobby	Corridor	390	-	0.06	-	23.4	1.0	23.4	240	0.10

Ventilation Schedule- Level 5 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _a	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
05072	Clean Supply	Storage	73	-	0.12	-	8.76	1.0	8.76	50	0.18
05073	Soiled Utility	Corridor	56	-	0.06	-	3.36	1.0	3.36	50	0.07
05074	Patient Toilet	-	50	-	-	-	-	1.0	-	0	-
05075	Nurse Station	Office Space	115	4	0.06	5	26.9	1.0	26.9	350	0.08
05076	Heart Failure Room	Office Space	130	3	0.06	5	22.8	1.0	22.8	140	0.16
05077	Heart Failure Room	Office Space	133	3	0.06	5	22.98	1.0	22.98	140	0.16
05078	Office 16	Office Space	108	1	0.06	5	11.48	1.0	11.48	180	0.06
05079	Passage	Corridor	432	-	0.06	-	25.92	1.0	25.92	180	0.14
05080	Office 7	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05081	Office 15	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05082	EP Exam 1	Office Space	168	1	0.06	5	15.08	1.0	15.08	200	0.08
05083	EP Exam 2	Office Space	164	1	0.06	5	14.84	1.0	14.84	200	0.07
05084	EP Exam 3	Office Space	166	1	0.06	5	14.96	1.0	14.96	200	0.07
05085	EP Exam 4	Office Space	167	1	0.06	5	15.02	1.0	15.02	200	0.08
05086 / 96	Dictation / Passage	Office Space	264	3	0.06	5	30.84	1.0	30.84	300	0.10
05087	Office 6	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05088	Office 14	Office Space	107	1	0.06	5	11.42	1.0	11.42	220	0.05
05089	Corridor	Corridor	931	-	0.06	-	55.86	1.0	55.86	380	0.15
05090	Office 13	Office Space	108	1	0.06	5	11.48	1.0	11.48	200	0.06
05091	Fellows	Office Space	585	12	0.06	5	95.1	1.0	95.1	1260	0.08
05092	Office 5	Office Space	108	1	0.06	5	11.48	1.0	11.48	180	0.06
05093	Office 12	Office Space	107	1	0.06	5	11.42	1.0	11.42	220	0.05
05094 / 94A	Clerical / Storage	Office Space	97	1	0.06	5	10.82	1.0	10.82	105	0.10
05095	Clerical	Office Space	104	2	0.06	5	16.24	1.0	16.24	180	0.09
05097	Office 4	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05098	Office 11	Office Space	107	1	0.06	5	11.42	1.0	11.42	220	0.05
05099 / 05106	Passage / Copy	Corridor	267	-	0.06	-	16.02	1.0	16.02	130	0.12
05100	Office 3	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05101	Office 10	Office Space	108	1	0.06	5	11.48	1.0	11.48	200	0.06
05102	Clerical	Office Space	128	2	0.06	5	17.68	1.0	17.68	200	0.09
05103	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	160	0.10
05104	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	160	0.10
05105	Shared Office	Office Space	108	2	0.06	5	16.48	1.0	16.48	160	0.10
05107	Admin. Shared	Office Space	118	2	0.06	5	17.08	1.0	17.08	200	0.09
05108	Office 2	Office Space	109	1	0.06	5	11.54	1.0	11.54	180	0.06
05109	Office 9	Office Space	107	1	0.06	5	11.42	1.0	11.42	220	0.05
05110	Shared Office	Office Space	105	2	0.06	5	16.3	1.0	16.3	160	0.10
05111	Large Conference Room	Conference/Meeting	500	36	0.06	5	210	1.0	210	800	0.26
05115	Conference Room	Conference/Meeting	269	12	0.06	5	76.14	1.0	76.14	410	0.19
05116	Passage	Corridor	244	-	0.06	-	14.64	1.0	14.64	100	0.15
05117	Director's Office	Office Space	164	2	0.06	5	19.84	1.0	19.84	300	0.07
05118	Shared Office	Office Space	109	2	0.06	5	16.54	1.0	16.54	160	0.10
05119	Office 8	Office Space	107	1	0.06	5	11.42	1.0	11.42	220	0.05
05121	Office 1	Office Space	107	1	0.06	5	11.42	1.0	11.42	200	0.06
05122	Storage Room	Storage	57	-	0.12	-	6.84	1.0	6.84	70	0.10
05123	Clerical	Office Space	88	2	0.06	5	15.28	1.0	15.28	160	0.10
05124	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
05125	Staff Toilet	-	49	-	-	-	-	1.0	-	0	-
05126	Copy Room	Office Space	55	-	0.06	5	3.3	1.0	3.3	50	0.07
05127	Clerical	Office Space	141	2	0.06	5	18.46	1.0	18.46	250	0.07
05128	Director's Office	Office Space	164	2	0.06	5	19.84	1.0	19.84	300	0.07
05129	Janitor's Closet	Storage	85	-	0.12	-	10.2	1.0	10.2	50	0.20
05130	Linen Chute	-	42	-	-	-	-	1.0	-	0	-
05131	Corridor	Corridor	410	-	0.06	-	24.6	1.0	24.6	160	0.15
05132	Waiting	Reception	100	3	0.06	5	21	1.0	21	115	0.18
05133	Elev. Lobby	Corridor	390	-	0.06	-	23.4	1.0	23.4	240	0.10
05138	Locker Room	Office Space	210	0	0.06	-	12.6	1.0	12.6	120	0.11
05139	Dining / Break Room	Cafeteria Dining	529	16	0.18	7.5	215.22	1.0	215.22	960	0.22

Ventilation Schedule- Level 7 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _b	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
07009 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07009 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07010 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07010 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07011 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07011 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07012 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	400	0.06
07012 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07013 A	Isolation Room	Patient Room	256	1	-	25	25	1.0	25	500	0.05
07013 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07014 A	Bariatric Isolation Room	Patient Room	230	1	-	25	25	1.0	25	500	0.05
07014 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07015 A	Bariatric Room	Patient Room	257	1	-	25	25	1.0	25	400	0.06
07015 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07016 A	Bariatric Isolation Room	Patient Room	231	1	-	25	25	1.0	25	500	0.05
07016 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07017 A	Isolation Room	Patient Room	254	1	-	25	25	1.0	25	500	0.05
07017 B	Isolation Toilet Room	-	48	-	-	-	-	1.0	-	0	-
07018 A	Bariatric Room	Patient Room	260	1	-	25	25	1.0	25	350	0.07
07018 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07019 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07019 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07020 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07020 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07021 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07021 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07022 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07022 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07023 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
07023 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
07049 A-D	Nurse Station	Office Space	337	6	0.06	5	50.22	1.0	50.22	680	0.07
07050	Clean Work	Office Space	126	-	0.06	5	7.56	1.0	7.56	70	0.11
07051	Meds	Office Space	79	-	0.06	5	4.74	1.0	4.74	140	0.03
07052	Team Room	Conference/Meeting	249	10	0.06	5	64.94	1.0	64.94	480	0.14
07053	Food Service Prep	Office Space	167	2	0.06	5	20.02	1.0	20.02	425	0.05
07054	Soiled Utility	Storage	78	-	0.12	-	9.36	1.0	9.36	50	0.19
07055	Wheelchair Storage	Storage	94	-	0.12	-	11.28	1.0	11.28	50	0.23
07056 A-D	Nurse Station	Office Space	320	6	0.06	5	49.2	1.0	49.2	680	0.07
07057	Clean Work	Office Space	126	-	0.06	5	7.56	1.0	7.56	70	0.11
07058	Meds	Office Space	75	-	0.06	5	4.5	1.0	4.5	140	0.03
07059	Staging	Office Space	110	-	0.06	5	6.6	1.0	6.6	60	0.11
07060	Lockers	Office Space	156	3	0.06	5	24.36	1.0	24.36	100	0.24
07061	Staff Toilet	-	52	-	-	-	-	1.0	-	0	-
07062	Staff Toilet	-	52	-	-	-	-	1.0	-	0	-
07063	Consult	Office Space	65	3	0.06	5	18.9	1.0	18.9	90	0.21
07064	Janitor's Closet	Storage	77	-	0.12	-	9.24	1.0	9.24	100	0.09
07065	Linen Chute	Corridor	49	-	0.06	-	2.94	1.0	2.94	50	0.06
07066	Elev. Lobby	Corridor	378	-	0.06	-	22.68	1.0	22.68	240	0.09
07067	Aisle	Corridor	120	-	0.06	-	7.2	1.0	7.2	50	0.14
07068 A	Classroom	Classroom (age 9+)	222	10	0.12	10	126.64	1.0	126.64	480	0.26
07068 B	Staff	Break Room	323	13	0.06	5	84.38	1.0	84.38	690	0.12
07071 A,B,D,E	Corridor / N.S.	Office Space	977	-	0.06	5	58.62	1.0	58.62	510	0.11
07071 C	N.S.	Office Space	51	2	0.06	5	13.06	1.0	13.06	90	0.15
07072	Corridor	Corridor	505	-	0.06	-	30.3	1.0	30.3	140	0.22
07073 A	N.S.	Office Space	52	2	0.06	5	13.12	1.0	13.12	90	0.15
07073 B-E	Corridor / N.S.	Office Space	1000	-	0.06	5	60	1.0	60	510	0.12

Ventilation Schedule- Level 8 South											
Room No.	Room Name	Occupancy Category	Area (SF)	P _z	R _b	R _p	V _{bz}	E _z	V _{oz}	V _{pz}	Z _p
08009 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08009 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08010 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08010 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08011 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08011 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08012 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	450	0.06
08012 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08013 A	Isolation Room	Patient Room	256	1	-	25	25	1.0	25	500	0.05
08013 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08014 A	Bariatric Isolation Room	Patient Room	230	1	-	25	25	1.0	25	500	0.05
08014 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08015 A	Bariatric Room	Patient Room	257	1	-	25	25	1.0	25	450	0.06
08015 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08016 A	Bariatric Isolation Room	Patient Room	231	1	-	25	25	1.0	25	500	0.05
08016 B	Isolation Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08017 A	Isolation Room	Patient Room	254	1	-	25	25	1.0	25	500	0.05
08017 B	Isolation Toilet Room	-	48	-	-	-	-	1.0	-	0	-
08018 A	Bariatric Room	Patient Room	260	1	-	25	25	1.0	25	350	0.07
08018 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08019 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08019 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08020 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08020 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08021 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08021 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08022 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08022 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08023 A	Patient Room	Patient Room	254	1	-	25	25	1.0	25	350	0.07
08023 B	Toilet Room	-	47	-	-	-	-	1.0	-	0	-
08049 A-D	Nurse Station	Office Space	337	6	0.06	5	50.22	1.0	50.22	760	0.07
08050	Clean Work	Office Space	126	-	0.06	5	7.56	1.0	7.56	70	0.11
08051	Meds	Office Space	79	-	0.06	5	4.74	1.0	4.74	160	0.03
08052	Team Room	Conference/Meeting	249	10	0.06	5	64.94	1.0	64.94	540	0.12
08053	Food Service Prep	Office Space	167	2	0.06	5	20.02	1.0	20.02	480	0.04
08054	Soiled Utility	Storage	78	-	0.12	-	9.36	1.0	9.36	60	0.16
08055	Wheelchair Storage	Storage	94	-	0.12	-	11.28	1.0	11.28	50	0.23
08056 A-D	Nurse Station	Office Space	320	6	0.06	5	49.2	1.0	49.2	760	0.06
08057	Clean Work	Office Space	126	-	0.06	5	7.56	1.0	7.56	70	0.11
08058	Meds	Office Space	75	-	0.06	5	4.5	1.0	4.5	160	0.03
08059	Staging	Office Space	110	-	0.06	5	6.6	1.0	6.6	60	0.11
08060	Lockers	Office Space	156	3	0.06	5	24.36	1.0	24.36	135	0.18
08061	Staff Toilet	-	52	-	-	-	-	1.0	-	0	-
08062	Staff Toilet	-	52	-	-	-	-	1.0	-	0	-
08063	Consult	Office Space	65	3	0.06	5	18.9	1.0	18.9	100	0.19
08064	Janitor's Closet	Storage	77	-	0.12	-	9.24	1.0	9.24	100	0.09
08065	Linen Chute	Corridor	49	-	0.06	-	2.94	1.0	2.94	50	0.06
08066	Elev. Lobby	Corridor	378	-	0.06	-	22.68	1.0	22.68	320	0.07
08067	Aisle	Corridor	120	-	0.06	-	7.2	1.0	7.2	50	0.14
08068 A	Classroom	Classroom (age 9+)	222	10	0.12	10	126.64	1.0	126.64	420	0.30
08068 B	Staff	Break Room	323	13	0.06	5	84.38	1.0	84.38	720	0.12
08071 A,B,D,E	Corridor / N.S.	Office Space	977	-	0.06	5	58.62	1.0	58.62	750	0.08
08071 C	N.S.	Office Space	51	2	0.06	5	13.06	1.0	13.06	100	0.13
08072	Corridor	Corridor	505	-	0.06	-	30.3	1.0	30.3	260	0.12
08073 A	N.S.	Office Space	52	2	0.06	5	13.12	1.0	13.12	100	0.13
08073 B-E	Corridor / N.S.	Office Space	1000	-	0.06	5	60	1.0	60	600	0.10

Operating Rooms

Ventilation Schedule- Level 2 OR's											
Room No.	Room Name	Occupancy Category	Area (SF)	P_z	R_a	R_p	V_{bz}	E_z	V_{oz}	V_{oz}	Z_o
02043	Operating Room #2	Operating Room	652	7	-	30	210	1.0	210	3000	0.07
02047	Operating Room #11	Operating Room	636	7	-	30	210	1.0	210	3000	0.07
02051	Operating Room #1	Operating Room	652	7	-	30	210	1.0	210	3000	0.07
02055	Operating Room #12	Operating Room	646	7	-	30	210	1.0	210	3000	0.07

Surgical Pharmacy

Ventilation Schedule- Level 2 Surgical Pharmacy											
Room No.	Room Name	Occupancy Category	Area (SF)	P_z	R_a	R_p	V_{bz}	E_z	V_{oz}	V_{oz}	Z_o
02063	Surgical Pharmacy	Office Space	434	3	0.06	5	41.04	1.0	41.04	1500	0.03
02063 A	Ante Room	Office Space	52	-	0.06	5	3.12	1.0	3.12	200	0.02
02063 B	IV Room	Office Space	109	1	0.06	5	11.54	1.0	11.54	1000	0.01

Appendix B – Exhaust Schedules

Exhaust Schedule- Lower Level									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
0L058	Linen	Trash Room	114	-	1	114	300	YES	
0L063	Women's Toilet	Toilet - public	180	70	-	210	250	YES	
0L062	Family Toilet	Toilet - public	59	70	-	70	80	YES	
0L062A	Family Toilet	Toilet - public	59	70	-	70	80	YES	
0L062B	Family Toilet	Toilet - public	70	70	-	70	100	YES	
0L065	Men's Toilet	Toilet - public	179	70	-	280	250	NO	

Exhaust Schedule- Level 1									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
01005	Family Toilet	Toilet - public	65	70	-	70	100	YES	
01006	Men's Toilet	Toilet - public	219	70	-	280	300	YES	
01007	Women's Toilet	Toilet - public	273	70	-	350	390	YES	
01136	Toilet Room	Toilet - public	43	70	-	70	75	YES	
01138A	Injection Toilet	Toilet - public	37	70	-	70	75	YES	
01139	Soiled Utility	Soiled Laundry Storage	40	-	1	40	100	YES	
01146	Toilet Room	Toilet - public	47	70	-	70	75	YES	
01147	Toilet Room	Toilet - public	48	70	-	70	75	YES	
01148	Toilet Room	Toilet - public	48	70	-	70	75	YES	
01162	Toilet Room	Toilet - public	51	70	-	70	75	YES	
01171B	Linen Chute	Trash Room	14	-	1	14	75	YES	
01174	Trash	Trash Room	59	-	1	59	80	YES	
01175A	Women's Locker	Locker Room	144	-	0.5	72	200	YES	
01175B	Women's Toilet	Toilet - public	55	70	-	70	75	YES	
01175C	Women's Dressing Room	Locker/ Dressing Room	41	-	0.25	10.25	75	YES	
01175E	Men's Locker	Locker Room	151	-	0.5	75.5	200	YES	
01175F	Men's Toilet	Toilet - public	53	70	-	70	75	YES	
01175G	Men's Dressing Room	Locker/ Dressing Room	43	-	0.25	10.75	75	YES	

Exhaust Schedule- Level 2									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
02050 A	Housekeeping	Janitor's Closet	95	-	1	95	150	YES	
02058	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
02059	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
02060	Trash / Linen	Trash Room	229	-	1	229	350	YES	

Exhaust Schedule- Level 4									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
04016	Patient Toilet	Toilet - public	53	70	-	70	75	YES	
04017	Patient Toilet	Toilet - public	47	70	-	70	75	YES	
04019	Patient Toilet	Toilet - public	49	70	-	70	75	YES	
04025 A	On-Call Toilet	Toilet - public	75	70	-	70	100	YES	
04031	Patient Toilet	Toilet - public	49	70	-	70	75	YES	
04032	Patient Toilet	Toilet - public	49	70	-	70	75	YES	
04054	Patient Toilet	Toilet - public	52	70	-	70	75	YES	
04059	Soiled Utility	Soiled Laundry Storage	120	-	1	120	165	YES	
04066	Staff Toilet	Toilet - public	65	70	-	70	100	YES	
04132	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
04133	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
04134	Janitor's Closet	Janitor's Closet	96	-	1	96	130	YES	
04136	Locker Room	Locker Room	194	-	0.5	97	300	YES	
04138	Linen Chute	Trash Room	53	-	1	53	75	YES	

Exhaust Schedule- Level 5									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
05012	Patient Toilet	Toilet - public	50	70	-	70	75	YES	
05013	Patient Toilet	Toilet - public	50	70	-	70	75	YES	
05021	Patient Toilet	Toilet - public	49	70	-	70	75	YES	
05028	Patient Toilet	Toilet - public	49	70	-	70	75	YES	
05047	Soiled Utility	Soiled Laundry Storage	84	-	1	84	125	YES	
05051	Patient Toilet	Toilet - public	56	70	-	70	75	YES	
05055	Staff Toilet	Toilet - public	59	70	-	70	80	YES	
05057 A	On-Call Toilet	Toilet - public	71	70	-	70	100	YES	
05073	Soiled Utility	Trash Room	56	-	1	56	100	YES	
05074	Patient Toilet	Toilet - public	50	70	-	70	75	YES	
05124	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
05125	Staff Toilet	Toilet - public	49	70	-	70	75	YES	
05126	Copy Room	Copy/Printing Room	55	-	0.5	27.5	110	YES	
05129	Janitor's Closet	Janitor's Closet	85	-	1	85	120	YES	
05130	Linen Chute	Trash Room	42	-	1	42	75	YES	
05138	Locker Room	Locker Room	210	-	0.5	105	300	YES	

Exhaust Schedule- Level 7									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
07001 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07002 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07003 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07004 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07005 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07006 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07007 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07008 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07024 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07025 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07026 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07027 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07028 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07029 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07030 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07033	Toilet	Toilet - public	50	70	-	70	75	YES	
07034	Toilet	Toilet - public	50	70	-	70	75	YES	
07035	Toilet	Toilet - public	52	70	-	70	75	YES	
07036 B	Toilet	Toilet - public	60	70	-	70	80	YES	
07043	Soiled Utility	Soiled Laundry Storage	68	-	1	68	125	YES	
07009 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07010 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07011 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07012 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07013 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
07014 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
07015 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07016 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
07017 B	Isolation Toilet Room	Toilet - public	48	70	-	70	75	YES	
07018 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07019 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07020 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07021 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07022 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07023 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
07053	Food Service Prep	Kitchen- commercial	167	-	0.7	116.9	500	YES	
07054	Soiled Utility	Soiled Laundry Storage	78	-	1	78	125	YES	
07060	Lockers	Locker Room	156	-	0.5	78	250	YES	
07061	Staff Toilet	Toilet - public	52	70	-	70	75	YES	
07062	Staff Toilet	Toilet - public	52	70	-	70	75	YES	
07064	Janitor's Closet	Janitor's Closet	77	-	1	77	200	YES	
07065	Linen Chute	Trash Rooms	49	-	1	49	150	YES	

Exhaust Schedule- Level 8									
Room No.	Room Name	Occupancy Category	Area (SF)	Exhaust Rate (cfm/unit)	Exhaust Rate (cfm/sf)	Required Exhaust (cfm)	Design Exhaust (cfm)	Complies?	
08001 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08002 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08003 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08004 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08005 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08006 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08007 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08008 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08024 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08025 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08026 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08027 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08028 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08029 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08030 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08033	Toilet	Toilet - public	50	70	-	70	75	YES	
08034	Toilet	Toilet - public	50	70	-	70	75	YES	
08035	Toilet	Toilet - public	52	70	-	70	75	YES	
08036 B	Toilet	Toilet - public	60	70	-	70	80	YES	
08043	Soiled Utility	Soiled Laundry Storage	68	-	1	68	150	YES	
08009 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08010 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08011 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08012 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08013 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
08014 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
08016 B	Isolation Toilet Room	Toilet - public	47	70	-	70	75	YES	
08017 B	Isolation Toilet Room	Toilet - public	48	70	-	70	75	YES	
08018 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08019 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08020 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08021 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08022 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08023 B	Toilet Room	Toilet - public	47	70	-	70	75	YES	
08053	Food Service Prep	Kitchen- commercial	167	-	0.7	116.9	550	YES	
08054	Soiled Utility	Soiled Laundry Storage	78	-	1	78	150	YES	
08060	Lockers	Locker Room	156	-	0.5	78	250	YES	
08061	Staff Toilet	Toilet - public	52	70	-	70	75	YES	
08062	Staff Toilet	Toilet - public	52	70	-	70	75	YES	
08064	Janitor's Closet	Janitor's Closet	77	-	1	77	200	YES	
08065	Linen Chute	Trash Rooms	49	-	1	49	150	YES	

Appendix C – Lighting Density

Lighting Density- Lower Level			
Room No.	Room Name	Area (SF)	W
0L012	Receiving	460	259
0L017	Corridor	394	174
0L025	Corridor	456	286
0L037	Corridor	474	286
0L069	Dining (North)	3224	256
0L047	Corridor	1336	734
0L055, 59	Corridor	432	227
0L056	Zone Maintenance	293	192
0L057	Storage	91	128
0L058	Linen	114	64
	Elevator Machine	358	339
0L064	Toilet Passage	77	59
0L063	Women's Toilet	180	154
0L062	Family Toilet	59	52
0L062A	Family Toilet	59	52
0L062B	Family Toilet	70	52
0L065	Men's Toilet	179	154
0L066	Dining Corridor	750	928
0L069	Dining (South)	3064	256

Lighting Density- Level 1			
Room No.	Room Name	Area (SF)	W
01004	Switchgear	500	384
01005	Family Toilet	65	52
01006	Men's Toilet	219	296
01007	Women's Toilet	273	328
01008	Corridor	871	702
01013	Reception	149	224
01014	Fire Control Room	114	128
01015, 20	Corridor	422	286
01017	Elec.	144	128
01018	I.T.	100	64
01021	Exit Passage	302	168
01022, 01067	Corridor	1167	675
01023	Lobby	2333	2548
	Dining Hall (1/2)	475	2762
01073	Resource Center	390	384
01120	Waiting	602	582
01121	Equip Sys.	61	320
01125	Passage	483	283
01126	Nuclear Camera	503	756
01131	DSE	180	216
01132	DSE	176	216
01133	Exercise Room	197	216
01134	Exercise Room	204	216
01135	Prep	76	64
01136	Toilet Room	43	80
01137	Check In / Check Out	194	320
01138	Injection Room	76	216
01138A	Injection Toilet	37	52
01139	Soiled Utility	40	64
01140, 53, 54, 71	Corridor	1160	998
01141	Tee	180	216
01142	Tee	176	216
01143	Echo	169	216
01144	Echo	164	216
01145	Echo	163	216
01146	Toilet Room	47	80
01147	Toilet Room	48	80
01148	Toilet Room	48	80
01149	Clean Supply	119	192
01150-52	Passage	534	336
01155	Nurse Techs	576	648
01160	Reading Room	317	250
01161	Consult	77	112
01162	Toilet Room	51	80
01163	Echo	160	216
01164	Echo	154	216
01165	Passage	223	168
01166	Manager's Office	103	112

Lighting Density- Level 1 (con't)			
Room No.	Room Name	Area (SF)	W
01167	Shared Office	108	112
01168	Echo	153	216
01170	Corridor	3353	3619
01171A	Inpatient Waiting	170	168
01171B	Linen Chute	14	26
01172	Passage	250	224
01173	Secretary Station	46	64
01174	Trash	59	64
01175	Cardiac Rehab	1108	1352
01175A	Women's Locker	144	78
01175B	Women's Toilet	55	80
01175C	Women's Dressing Room	41	52
01175D	Women's Shower Room	42	112
01175E	Men's Locker	151	78
01175F	Men's Toilet	53	80
01175G	Men's Dressing Room	43	52
01175H	Men's Shower Room	42	112
01175J	Storage	69	108
01180, 89	Corridor / Elev. Lobby	472	451
01185	Staff Lounge	282	288
01188	Conference	152	216
	Dining Perimeter	475	2762

Lighting Density- Level 2			
Room No.	Room Name	Area (SF)	W
02043	Operating Room #2	652	2304
02047	Operating Room #11	636	2304
02051	Operating Room #1	652	2304
02055	Operating Room #12	646	2304
02063	Surgical Pharmacy	434	448
02063 A	Ante Room	52	56
02063 B	IV Room	109	112
02040	Restricted Corr.	915	258
02041	Pump Room	456	384
02042	Restricted Corr.	951	258
2044,46,49,52,54	Clean Core	1525	2086
02045	Equipment Storage	369	336
02048	Restricted Corr.	879	230
02050 A	Housekeeping	95	128
02053	Substerile	157	128
02056, 64	Restricted Corr.	834	261
02058	Staff Toilet	49	80
02059	Staff Toilet	49	80
02060	Trash / Linen	229	128
02061	Blood Storage	110	56
02062	Surgical Vestibule	167	65
02063	Surgical Pharmacy	434	448
02065	Equipment Storage	141	112
02066	Shared Office	109	112
02067	Equip. Tech Shop	221	84
02068	Corridor / Elev. Lobby	767	622
02069	Surg. Path Lab	912	728
2069C	Tissue Storage	78	56
02070	Anesthesia Workroom	1154	672
02071	Visitor Waiting	84	28
2073	Corridor	69	28

Lighting Density- Level 4			
Room No.	Room Name	Area (SF)	W
04001	Family Waiting	765	1160
04005	Corridor	634	286
04005A	Corridor	162	1476
04006, 35, 56	Corridor / Dictation	852	499
04007	Shared Office	108	112
04008	Shared Office	108	112
04009	Shared Office	108	112
04010	PA Work Room	333	448
04015	Consult	182	224
04016	Patient Toilet	53	80
04017	Patient Toilet	47	80
04018	Check In / Check Out	525	739
04018A	Office	156	168
04019	Patient Toilet	49	80
04020	Treatment Room	288	432
04025	On-Call	163	104
04025 A	On-Call Toilet	75	80
04026	Dictation	38	26
04027	Exam 1	106	216
04028	Exam 2	104	216
04029	Exam 3	107	216
04030	Exam 4	104	216
04031	Patient Toilet	49	80
04032	Patient Toilet	49	80
04033	Vitals	102	216
04034	Passage	479	483
04036	Exam 9	107	216
04037	Exam 8	104	216
04038	Reading Room	288	500
04038 B	Dictation	86	52
4039, 73	Corridor	614	401
04043	Exam 7	108	216
04044	Exam 6	109	216
04045	Exam 5	104	216
04046	Clean Supply	206	288
04047	Nurse Station	223	112
04048	Passage	664	510
04049	Exam 10	107	216
04050	Exam 11	104	216
04051	Exam 12	107	216
04052	Exam 13	104	216
04053 / 55	Subwaiting / Passage	428	352
04054	Patient Toilet	52	80
04057	Lab 8	179	216
04058	Doppler Lab 7	165	216
04059	Soiled Utility	120	128
04061	Lab 5	201	324
04062	Exam 14	107	216

Lighting Density- Level 4 (con't)			
Room No.	Room Name	Area (SF)	W
04063	Equip. Storage	79	64
04064	Exam 15	107	216
04065	Exam 16	107	216
04068	Equipment	111	64
04070	Lab 6	181	216
04066	Staff Toilet	65	80
04067	Sys/Equip	87	128
04069	Tech	670	750
04069 A	Alcove	73	128
04071	Passage	215	227
04072	Patient Holding	372	648
04077	Elec.	144	128
04078	Data	100	128
04079, 84	Clerical	314	448
04080	Office 10	113	112
04081	Office 9	113	112
04082	Passage	139	227
04083	Print/Copy/Passage	270	232
04085	Office 8	115	112
04086	Fellows	452	450
04090	Reading	174	200
04091	Lab 4	172	216
04092	Lab 3	224	324
04093	Shared Office	108	112
04094	Manager Office	108	112
04095	Office 7	113	112
04096	Lab 2	163	216
04097	Conference	510	640
04102	Office 6	114	112
04103	Lab 1	159	216
04104	Office 5	115	112
04105	Passage	722	793
04106	Office 4	113	112
04107	Office 3	114	112
04108	Office 2	115	112
04109	Office 1	113	112
04110	Storage	1857	0
04111, 35	Corridor	1417	937
04112	Mechanical Room	4350	0
04130	Director's Office	174	168
04131	Director's Office	172	168
04132	Staff Toilet	49	80
04133	Staff Toilet	49	80
04134	Janitor's Closet	96	64
04136	Locker Room	194	224
04137	Dining / Break	540	728
04138	Linen Chute	53	64
04145	Elev. Lobby	390	339

Lighting Density- Level 5			
Room No.	Room Name	Area (SF)	W
05001	Family Waiting	726	1160
05005	Corridor	526	227
05006	Holter	130	216
05007	EKG	578	756
05012	Patient Toilet	50	52
05013	Patient Toilet	50	52
05014	Check In / Out	573	736
05019,31,32,41,46	Corridor/Dictation	1140	634
05020	Research Lab Room	196	432
05021	Patient Toilet	49	80
05022	Office	98	112
05023	Exam 1	108	216
05024	Exam 2	106	216
05025	Exam 3	108	216
05026	Exam 4	106	216
05027	Exam 5	108	216
05028	Patient Toilet	49	80
05029	Vitals	98	104
05030	Passage	329	286
05033	Exam 6	108	216
05034	Exam 7	107	216
05035	Exam 8	110	216
05036	Exam 9	110	216
05037	Exam 10	105	216
05038	Clean Supply	192	192
05039	Nurse Station	222	112
05040, 54	Corridor/Dictation	875	681
05042	Exam 11	107	216
05043	Exam 12	105	216
05044	Exam 13	111	216
05045	Passage	521	339
05047	Soiled Utility	84	64
05048	Exam 14	108	216
05049	Exam 15	108	216
05050	Exam 16	108	216
05051	Patient Toilet	56	80
05052	Exam 17	108	216
05053	Exam 18	108	216
05055	Staff Toilet	59	80
05056	Equipment Sys	84	128
05057	On-Call	133	104
05057 A	On-Call Toilet	71	80
05058	Exam 19	108	216
05059	Exam 20	108	216
05060	Office 19	109	112
05061	Passage	134	115
05062	Reading Room	94	200
05063	Electrical Room	142	128

Lighting Density- Level 5 (con't)			
Room No.	Room Name	Area (SF)	W
05064	Data Room	100	128
05065	Equipment Storage	107	128
05066	Passage	94	112
05067	Exam 21	106	216
05068	Exam 22	106	216
05069	Office 18	107	112
05070	Shared Office	104	112
05071	Office 17	107	112
05089	Corridor	294	227
05072	Clean Supply	73	64
05082	EP Exam 1	168	216
05083	EP Exam 2	164	216
05084	EP Exam 3	166	216
05085	EP Exam 4	167	216
05086 / 96	Dictation / Passage	264	282
05087	Office 6	107	112
05088	Office 14	107	112
05089	Corridor	931	566
05090	Office 13	108	112
05091	Fellows	585	672
05092	Office 5	108	112
05093	Office 12	107	112
05094 / 94A	Clerical / Storage	97	112
05095	Clerical	104	164
05097	Office 4	107	112
05098	Office 11	107	112
05099 / 05106	Passage / Copy	267	171
05100	Office 3	107	112
05101	Office 10	108	112
05102	Clerical	128	224
05103	Shared Office	108	112
05104	Shared Office	108	112
05105	Shared Office	108	112
05107	Admin. Shared	118	112
05108	Office 2	109	112
05109	Office 9	107	112
05110	Shared Office	105	112
05111	Large Conference Room	500	720
05115	Conference Room	269	592
05116	Passage	244	315
05117	Director's Office	164	168
05118	Shared Office	109	112
05119	Office 8	107	112
05121	Office 1	107	112
05122	Storage Room	57	64
05123	Clerical	88	112
05124	Staff Toilet	49	80
05125	Staff Toilet	49	80

Lighting Density- Level 5 (con't)			
Room No.	Room Name	Area (SF)	W
05126	Copy Room	55	64
05127	Clerical	141	336
05128	Director's Office	164	112
05129	Janitor's Closet	85	64
05130	Linen Chute	42	64
05131	Corridor	410	288
05132	Waiting	100	99
05133	Elev. Lobby	390	339
05138	Locker Room	210	224
05139	Dining / Break Room	529	728

Lighting Density- Level 7			
Room No.	Room Name	Area (SF)	W
07001 A	Patient Room	247	305
07001 B	Toilet Room	47	162
07002 A	Patient Room	254	305
07002 B	Toilet Room	47	162
07003 A	Patient Room	254	305
07003 B	Toilet Room	47	162
07004 A	Patient Room	254	305
07004 B	Toilet Room	47	162
07005 A	Patient Room	254	305
07005 B	Toilet Room	47	162
07006 A	Patient Room	254	305
07006 B	Toilet Room	47	162
07007 A	Patient Room	254	305
07007 B	Toilet Room	47	162
07008 A	Patient Room	254	305
07008 B	Toilet Room	47	162
07024 A	Patient Room	254	305
07024 B	Toilet Room	47	162
07025 A	Patient Room	254	305
07025 B	Toilet Room	47	162
07026 A	Patient Room	254	305
07026 B	Toilet Room	47	162
07027 A	Patient Room	254	305
07027 B	Toilet Room	47	162
07028 A	Patient Room	254	305
07028 B	Toilet Room	47	162
07029 A	Patient Room	254	305
07029 B	Toilet Room	47	162
07030 A	Patient Room	254	305
07030 B	Toilet Room	47	162
07031 A	Waiting	712	1160
07031 B-C	Concierge / WC Stor.	219	151
07031 D	Family Waiting	92	128
07032	Consult	74	112
07033	Toilet	50	80
07034	Toilet	50	80
07035	Toilet	52	80
07036 A	On Call	117	112
07036 B	Toilet	60	80
07037 A-D	Nurse Station	313	512
07038	Clean Work	105	128
07039	Meds	71	96
07040	Team Coordination	171	168
07041	Nurse Manager	105	112
07042	Other Services	59	64
07043	Soiled Utility	68	64
07044	Powered Equip. Storage	170	128
07045	Equipment Storage	217	256

Lighting Density- Level 7 (con't)			
Room No.	Room Name	Area (SF)	W
07046	Lift Storage	43	52
07047	Electrical Room	142	128
07048	Data Room	100	128
07069	Corridor	362	339
07070 A-F	Corridor / N.S.	1066	1421
07074 A-E	Corridor / N.S.	1161	1447
07009 A	Patient Room	254	305
07009 B	Toilet Room	47	162
07010 A	Patient Room	254	305
07010 B	Toilet Room	47	162
07011 A	Patient Room	254	305
07011 B	Toilet Room	47	162
07012 A	Patient Room	254	305
07012 B	Toilet Room	47	162
07013 A	Isolation Room	256	305
07013 B	Isolation Toilet Room	47	162
07014 A	Bariatric Isolation Room	230	305
07014 B	Isolation Toilet Room	47	162
07015 A	Bariatric Room	257	305
07015 B	Toilet Room	47	162
07016 A	Bariatric Isolation Room	231	305
07016 B	Isolation Toilet Room	47	162
07017 A	Isolation Room	254	305
07017 B	Isolation Toilet Room	48	162
07018 A	Bariatric Room	260	305
07018 B	Toilet Room	47	162
07019 A	Patient Room	254	305
07019 B	Toilet Room	47	162
07020 A	Patient Room	254	305
07020 B	Toilet Room	47	162
07021 A	Patient Room	254	305
07021 B	Toilet Room	47	162
07022 A	Patient Room	254	305
07022 B	Toilet Room	47	162
07023 A	Patient Room	254	305
07023 B	Toilet Room	47	162
07049 A-D	Nurse Station	337	512
07050	Clean Work	126	128
07051	Meds	79	96
07052	Team Room	249	352
07053	Food Service Prep	167	192
07054	Soiled Utility	78	64
07055	Wheelchair Storage	94	64
07056 A-D	Nurse Station	320	512
07057	Clean Work	126	128
07058	Meds	75	96
07059	Staging	110	128
07060	Lockers	156	224

Lighting Density- Level 7 (con't)			
Room No.	Room Name	Area (SF)	W
07061	Staff Toilet	52	80
07062	Staff Toilet	52	80
07063	Consult	65	112
07064	Janitor's Closet	77	64
07065	Linen Chute	49	64
07066	Elev. Lobby	378	339
07067	Aisle	120	112
07068 A	Classroom	222	336
07068 B	Staff	323	448
07071 A,B,D,E	Corridor / N.S.	977	1229
07071 C	N.S.	51	26
07072	Corridor	505	585
07073 A	N.S.	52	26
07073 B-E	Corridor / N.S.	1000	1191

Lighting Density- Level 8			
Room No.	Room Name	Area (SF)	W
08001 A	Patient Room	244	305
08001 B	Toilet Room	47	162
08002 A	Patient Room	254	305
08002 B	Toilet Room	47	162
08003 A	Patient Room	254	305
08003 B	Toilet Room	47	162
08004 A	Patient Room	254	305
08004 B	Toilet Room	47	162
08005 A	Patient Room	254	305
08005 B	Toilet Room	47	162
08006 A	Patient Room	254	305
08006 B	Toilet Room	47	162
08007 A	Patient Room	254	305
08007 B	Toilet Room	47	162
08008 A	Patient Room	254	305
08008 B	Toilet Room	47	162
08024 A	Patient Room	254	305
08024 B	Toilet Room	47	162
08025 A	Patient Room	254	305
08025 B	Toilet Room	47	162
08026 A	Patient Room	254	305
08026 B	Toilet Room	47	162
08027 A	Patient Room	254	305
08027 B	Toilet Room	47	162
08028 A	Patient Room	254	305
08028 B	Toilet Room	47	162
08029 A	Patient Room	254	305
08029 B	Toilet Room	47	162
08030 A	Patient Room	254	305
08030 B	Toilet Room	47	162
08031A	Family Waiting	764	1160
08031 B-C	Concierge / WC Stor.	219	151
08031 D	Family Waiting	92	128
08032	Consult	74	112
08033	Toilet	50	80
08034	Toilet	50	80
08035	Toilet	52	80
08036 A	On Call	117	112
08036 B	Toilet	60	80
08037 A-D	Nurse Station	313	512
08038	Clean Work	105	128
08039	Meds	71	96
08040	Team Coordinator	171	168
08041	Nurse Manager	105	112
08042	Other Services	59	64
08043	Soiled Utility	68	64
08044	Powered Equip. Storage	170	128
08045	Equipment Storage	217	256

Lighting Density- Level 8 (con't)			
Room No.	Room Name	Area (SF)	W
08046	Lift Storage	43	80
08047	Electrical Room	142	128
08048	Data Room	100	128
08069	Corridor	362	317
08070 A-F	Corridor / N.S.	1066	1421
08074 A-E	Corridor / N.S.	1161	1447
08009 A	Patient Room	254	305
08009 B	Toilet Room	47	162
08010 A	Patient Room	254	305
08010 B	Toilet Room	47	162
08011 A	Patient Room	254	305
08011 B	Toilet Room	47	162
08012 A	Patient Room	254	305
08012 B	Toilet Room	47	162
08013 A	Isolation Room	256	305
08013 B	Isolation Toilet Room	47	162
08014 A	Bariatric Isolation Room	230	305
08014 B	Isolation Toilet Room	47	162
08015 A	Bariatric Room	257	305
08015 B	Toilet Room	47	162
08016 A	Bariatric Isolation Room	231	305
08016 B	Isolation Toilet Room	47	162
08017 A	Isolation Room	254	305
08017 B	Isolation Toilet Room	48	162
08018 A	Bariatric Room	260	305
08018 B	Toilet Room	47	162
08019 A	Patient Room	254	305
08019 B	Toilet Room	47	162
08020 A	Patient Room	254	305
08020 B	Toilet Room	47	162
08021 A	Patient Room	254	305
08021 B	Toilet Room	47	162
08022 A	Patient Room	254	305
08022 B	Toilet Room	47	162
08023 A	Patient Room	254	305
08023 B	Toilet Room	47	162
08049 A-D	Nurse Station	337	512
08050	Clean Work	126	128
08051	Meds	79	96
08052	Team Room	249	352
08053	Food Service Prep	167	192
08054	Soiled Utility	78	64
08055	Wheelchair Storage	94	64
08056 A-D	Nurse Station	320	512
08057	Clean Work	126	128
08058	Meds	75	96
08059	Staging	110	128
08060	Lockers	156	224

Lighting Density- Level 8 (con't)			
Room No.	Room Name	Area (SF)	W
08061	Staff Toilet	52	80
08062	Staff Toilet	52	80
08063	Consult	65	112
08064	Janitor's Closet	77	64
08065	Linen Chute	49	64
08066	Elev. Lobby	378	339
08067	Aisle	120	112
08068 A	Classroom	222	336
08068 B	Staff	323	448
08071 A,B,D,E	Corridor / N.S.	977	1229
08071 C	N.S.	51	26
08072	Corridor	505	585
08073 A	N.S.	52	26
08073 B-E	Corridor / N.S.	1000	1447

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