



The State Institute of Rehabilitation

Technical Investigation

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Executive Summary

The following report is a preliminary investigation into the design and construction of the State Institute of Rehabilitation. The building, located in the northeastern United States and completed in 2005, is an approximately 120,000 ft², three story, stand-alone addition to an existing structure dating, at its earliest, to 1949.

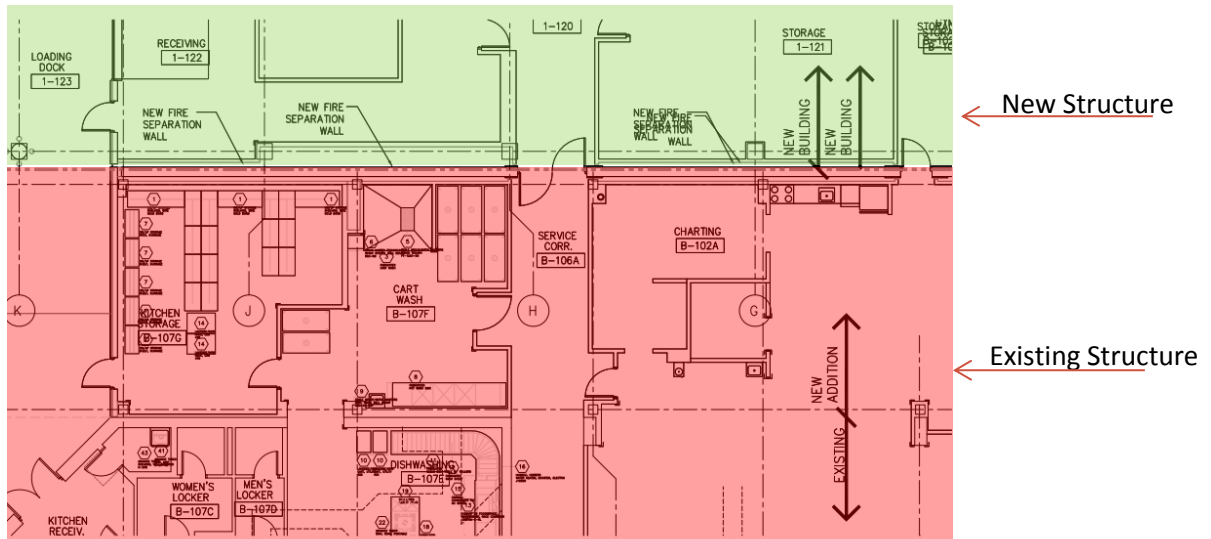


Figure 1: A color diagram depicting the joining of the existing Rehabilitation Center with the new wing

The building addition was proposed in an effort to expand the capabilities of the Institute to care for its booming inpatient and outpatient populations. To increase the building’s physical capacity without disturbing the operation of the existing facility, the addition was built entirely on its own mechanical and chilled water systems.

The purpose of the following investigation is to establish that the building, as it currently stands, meets the mechanical specifications presented in the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) standards 62.1-2010, sections 5 and 6, and 90.1-2010, sections 5, 6, 7, and 8. These two standards represent the requirements for acceptable building ventilation and energy standards in commercial buildings, respectively.

The analysis of these two codes in conjunction with the State Institute of Rehabilitation’s as-built drawings and building specifications is detailed below and will provide greater insight into its construction and compliance.

Mechanical Summary

Mechanically, the addition constructed abutting the existing structure is a stand-alone building. The equipment installed in the building handles, by itself, the loads generated by building occupants, equipment, and ambient conditions.

Rooftop Air Handling Units

Nine (9) variable air volume (VAV) rooftop air handling units were installed on the roof of the Institute of Rehabilitation. Individually, they are capable of handling loads between 466 and 567 MBH. They are each comprised, in order, of a return air fan, outside air intake, an economizer mixing box, a

pre-filter bank, a DX cooling coil, a supply fan, a natural gas fired heating bay, a final filter bank, and a natural gas fired steam humidifier.

Boilers

The building's heating hot water needs are served by three (3) 48 BHP boilers, located in the mechanical room on the ground level. Each boiler was installed in 2005 and is run off of natural gas. The heating hot water is produced in the boilers and pumped by one, two, or three fully operational pumps, depending on demand load, to the rest of the building.



Figure 2: The boilers, located in the Mechanical Room, which feed the Institute of Rehabilitation

Unit Heaters

The building makes use of eight (8) electric cabinet unit heaters and eight (8) hot water unit heaters throughout the building. Many of them are used in the “crawl space” which extends into the surrounding grade on the ground floor of the building.

Split System Air Conditioners

There are a total of five (5) rooms in the Institute which require supplemental cooling. These rooms, in no particular order, are the electric room, the (two) elevator machine rooms, the data room, and the vending room. The air conditioning units vary in size with the largest capable of handling 42.0 MBH and the smallest capable of handling 18.4MBH. They are coupled with an air cooled condenser unit located, depending on the AC unit in question, on either the lawn or the roof.

Variable Air Volume Boxes

The building contains approximately 135 Enviro-tec VAV boxes. The VAV boxes are distributed by zone throughout the first, second, and third floors, respectively.

ASHRAE Standard 62.1

Section 5.0, Systems and Equipment

5.1 Ventilation Air Distribution

Section 5.1.1 requires that the building ventilation system be constructed with a means by which to balance air flow and maintain a minimum delivery air flow at all times, under all circumstances. The State Rehabilitation Center utilizes ducted supply and return. Branches of the supply air ductwork

are sectioned by zone with VAV boxes which are controlled with their own manufacturer supplied control boxes. Within zones, air delivery by supply diffusers and return grilles is controlled by air dampers.

Section 5.1.2 requires that systems utilizing plenum return are provided with the minimum ventilation air flow. The State Rehabilitation Center does not use plenum return and so this section is not applicable.

Section 5.1.3 requires that all air balance testing requirements be documented with the design intent and assumptions made. The building specifications, specifically Section 15990, specify that all air systems shall be balanced according to the Associated Air Balance Council (AABC), the National Environmental Balance Bureau (NEBB) and the Sheet metal and Air conditioning contractors' National Association, Inc. (SMACNA).

5.2 Exhaust Duct Location

Section 5.2 requires that all areas requiring exhaust air be negatively pressurized such that the contents within the system do not leak into the spaces through which they pass. All areas in which exhaust ductwork is required are negatively pressurized relative to their surroundings- more air is being exhaust or returned than is being supplied. Were there to be gaps over the distance of the ductwork such that it was not completely sealed, the air of the spaces through which it passes would leak into the ductwork and the exhaust air would not leak out. Spaces which require the exhaust of supply air include all patient restrooms, oxygen distribution holding rooms, men and women's public restrooms, and multiple storage areas.

5.3 Ventilation System Controls

Section 5.3 requires that the ventilation system be equipped with either an automatic or manual means of delivering air via fan, under all load conditions. The mechanical ventilation system uses, at a minimum, Room Thermostats/Temperature Sensors, VAV box damper actuators, air flow sensors, and individual VAV box controllers. These control devices report back to the rooftop air handling units, each of which is equipped with a standalone, DDC MicroTech II microprocessor which in turn communicates with the building management system (BMS). The BMS is equipped with alarms which indicate high or low CFM readings from supply and return fans, signaling equipment failure and the reduction in air delivery below the minimum required CFM. The air handling units, combined with the BMS, maintain the minimum outdoor airflow at all times.

5.4 Airstream Surfaces

The air distribution system dehumidifies and humidifies supply air within the rooftop air handling units (AHUs) to a value which adheres closely to 50% relative humidity. Additionally, the BMS system is equipped with alarms for high humidity readings in the event that the aforementioned sequences fails inside of an air handling unit, thereby providing two mechanisms by which to resist mold growth as specified in section 5.4.1.

The air distribution network is comprised of galvanized steel, as specified in Specification 15890, except where ductwork abuts a duct humidifier or exhaust network in which case it is to be constructed of stainless steel. The kitchen exhaust network is constructed of black steel. These construction specifications align with that of SMACNA 1985. These specifications align with the purpose of section 5.4.2 in assuring that materials used in the HVAC system resist erosion due to moisture content.

5.5 Outdoor Air Intakes

Section 5.5 prescribes minimum separation distances between certain potential contaminant sources and the outdoor air intake louvers of ventilation equipment. The outdoor air intake, on each of the nine AHUs, meets and in some cases exceeds the distances required. The packaged AHUs are also constructed with an integral bird screen and, additionally a “rain lip”, which resists rain entrainment.



Figure 3: One of nine (9) rooftop air handling units (AHU)

5.6 Local Capture of Contaminants

There is no contaminant generating, non-combustion equipment located within the State Institute of Rehabilitation and so this section is not applicable.

5.7 Combustion Air

The fuel burning appliances, namely the three boilers located in the ground floor mechanical room, are located directly outdoors in compliance with both manufacturer and code requirements.

5.8 Particulate Matter Removal

This section requires that outdoor air be treated for particulate matter in the form of filtration. The system of particulate matter removal in the nine AHUs is comprised of a pre-filter section, upstream of the cooling and heating coils, and a final filter section located downstream of the supply fan. The filtration systems within these sections were designed and installed before the adoption of the MERV system and are rated, instead, by percentages.

Because the State Institute of Rehabilitation is a healthcare facility, the filtration system in each air handling unit requires the use of two filtration banks. The first filtration bank in each RTU is located upstream of the heating and cooling coils, and is comprised of a 2”, 30% efficient panel which is roughly comparable to a MERV 5 filter. The second filtration bank, located downstream of both the supply fan, is comprised of a 12” thick 95% efficient panel, roughly comparable to a MERV 16 filter.

5.9 Dehumidification Systems

ASHRAE requires that the relative humidity in any occupied space be less than 65% to avoid the encouragement of mold and mildew growth. Each AHU is equipped with both a dehumidification and humidification system. The dehumidification process is comingled with conditioning and is comprised of a DX cooling coil, whereas the humidification system is comprised expressly of a gas fired steam humidifier downstream of the supply fan. Together, these two systems work to ensure a RH of approximately 50% during those months in which humidity poses a threat to building operation, namely the summer months.

5.10 Drain Pans

In accordance with section 5.10, all drain pans installed beneath condensate producing equipment are sloped at a minimum of 1/8 (0.125) in/ft. to provide positive draining. The drain pan itself is connected to a threaded drain connection which extends along the base of the unit, as per Specification 51780.001. The condensate drip pipes, additionally, are equipped with a P-trap which works against air entrainment.



Figure 4: The condensate pipe draining from the DX cooling coil, fitted with P-trap/U-bend

5.11 Finned-Tube Coils and Heat Exchangers

All condensate producing heat exchangers are drained from the rooftop air handling units by an internal condensate drain pan and an exterior condensate drip pipe. The condensate which is evacuated from the provided drip pipes, however, is not itself appropriately drained away from the units.



Figure 5: The lack of appropriate drainage methods adjacent to AHU curbing beneath condensate pipe

5.12 Humidifiers and Water-Spray Systems

In accordance with section 5.12.1, the steam humidifiers in RTUs 1-9, located downstream from the final filter, are fed by potable municipal water and, in accordance with section 5.12.2, are free from obstructions downstream.

5.13 Access for Inspection, Cleaning, and Maintenance

Appropriately sized maintenance access panels, for RTUs 1-9, is provided downstream of the pre-filter, supply fan, and gas fired heating coils. Access to other system components including, but not limited to, VAV's, control boxes, and dampers, is provided throughout the building. These access panels and clearances, as stated by section 5.13, allow for "sufficient working space for inspection and routine maintenance." Access panels are provided with hinged access doors, as noted in Specification 157800.001, Section 2.10.

5.14 Building Envelope and Interior Surfaces

The building envelope is constructed largely of aluminum/glass system components and their accompanying interior finishes but also with a necessary weather barrier in the form of a vapor retarder and weather proofed sealants.

5.15 Buildings with Attached Parking Garages

The State Institute of Rehabilitation is not attached to any parking structure and so specifications from this section are not applicable.

5.16 Air Classification and Recirculation

The State Institute of Rehabilitation is classified as a healthcare building. There exists within the building a variety of different rooms and, subsequently, a number of different air classifications. Air circulating in hallways, reception areas, offices, and spaces of a similar nature is categorized as Class 1 or Class 2 and is allowed to be returned to the rooftop air handling units, treated by the pre-filters and final-filters, and recirculated. Patient toilets and public restrooms, however, are considered to be Class 3 and must be exhausted directly from the building to the outdoors.

5.17 Requirements for Building Containing ETS Areas and ETS-Free Areas

There is no part of the State Institute for Rehabilitation which falls under the classification of Environmental Tobacco Smoke (EMS) area, and so recirculation and treatment prescriptions from this section are not applicable.

Section 6.0, Procedures

6.1 General

The State Institute of Rehabilitation's ventilation system was designed using, exclusively, the Ventilation Rate Procedure and makes no use of either the IAQ Procedure or the Natural Ventilation Procedure.

6.2 The Ventilation Rate Procedure

The filtration system utilized within each of the nine (9) air handling units exceeds the provisions outlined in section 6.2.1.1 and 6.2.1.2, owing to the building's classification as a healthcare facility. The filtration adheres to AIA guidelines.

The calculations discussed here in comparison to the existing ventilation rates can be found in Appendix A.

The ventilation calculation, located at the end of the report, uses both ASHRAE 170/AIA volumetric air changes and IMC/ASHRAE 2009. The calculation completed in the design development phase of the project also used AIA but, as it was completed somewhere around the year 2003, varies greatly in results from the calculation done for this report. The values listed for their spaces sometimes exceed, sometimes meet, and sometimes fall below what was calculated here. Some of these discrepancies may be attributed to differences in code values and, additionally, in room classifications.

ASHRAE 62.1, Summary

The building is compliant with the majority of ASHRAE 62.1 standards and operates efficiently on the system it was designed with. The only foreseeable issue is that of drainage away from the 16” AHU curb.

Some modifications will clearly need to be made to the design, if only to update the building to modern standards.

ASHRAE Standard 90.1

Section 5.0, Building Envelope

5.1.4 Climate

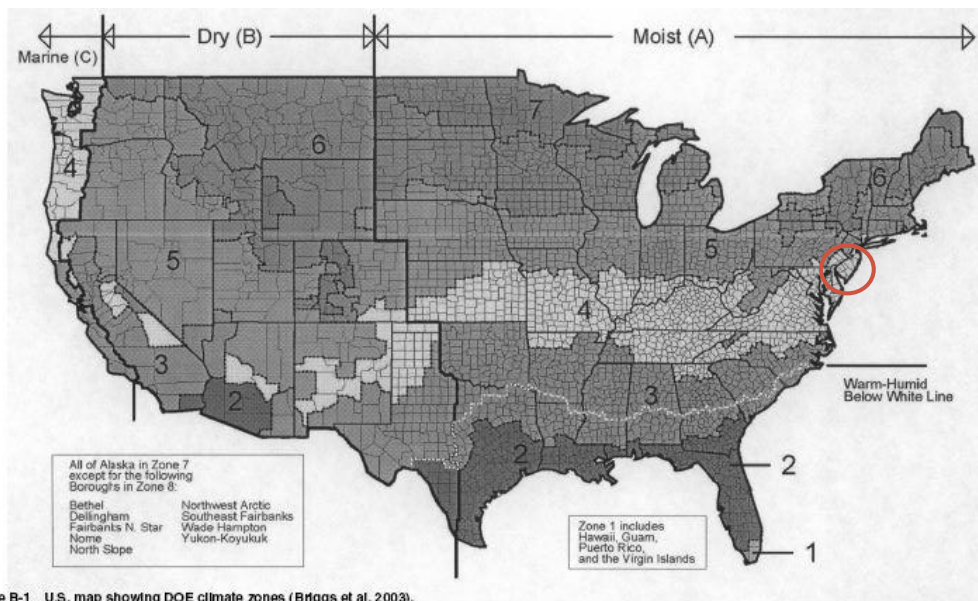


Figure B-1 U.S. map showing DOE climate zones (Briggs et al. 2003).

Figure 6: The Climate Zone map of the United States, ASHRAE 90.1 Appendix B

The State Institute of Rehabilitation lies within climate zone 4A, highlighted above. All of New Jersey, according to Table B-1 in Appendix B of 90.1, falls into the category of 4A excepting the counties

of Bergen, Hunterdon, Mercer, Morris, Passaic, Somerset, Sussex, and Warren. The State Institute of Rehabilitation does not reside in any of these counties, and so was zoned 4A.

5.2 Compliance Paths

The State Institute of Rehabilitation was designed using section 5.5, on which a discussion follows. This method is termed the Prescriptive Building Envelope Option and is allowable as long as a) vertical fenestration area does not exceed 40% of the gross wall area and b) the skylight fenestration area does not exceed 5% of the gross roof area.

The ratio of vertical fenestration area to gross wall area does NOT exceed 40%. Furthermore, there is no skylight fenestration. Owing to the fact that the Institute falls well within each of these parameters, the method outlined in section 5.5 is allowed.

5.5 Prescriptive Building Envelope Option

The Institute, being a conditioned space, must comply with the non-residential requirements presented in ASHRAE 90.1 Table 5.5-1 reproduced below

TABLE 5.5-1 Building Envelope Requirements

| Nonresidential | | |
|---|------------------|-------------------------|
| Opaque Elements | Assembly Maximum | Insulation Min. R-Value |
| <i>Roofs</i> | | |
| Insulation Entirely above Deck | U-0.063 | R-15.0 c.i. |
| Metal Building ^a | U-0.065 | R-19.0 |
| Attic and Other | U-0.034 | R-30.0 |
| <i>Walls, Above-Grade</i> | | |
| Mass | U-0.580 | NR |
| Metal Building | U-0.093 | R-16.0 |
| Steel-Framed | U-0.124 | R-13.0 |
| Wood-Framed and Other | U-0.089 | R-13.0 |
| <i>Walls, Below-Grade</i> | | |
| Below-Grade Wall | C-1.140 | NR |
| <i>Floors</i> | | |
| Mass | U-0.322 | NR |
| Steel-Joist | U-0.350 | NR |
| Wood-Framed and Other | U-0.282 | NR |
| <i>Slab-On-Grade Floors</i> | | |
| Unheated | F-0.730 | NR |
| Heated | F-1.020 | R-7.5 for 12 in. |
| <i>Opaque Doors</i> | | |
| Swinging | U-0.700 | |
| Nonswinging | U-1.450 | |
| Fenestration | Assembly Max. U | Assembly Max. SHGC |
| <i>Vertical Glazing, 0%-40% of Wall</i> | | |
| Nonmetal framing (all) ^c | U-1.20 | |
| Metal framing (curtainwall/storefront) ^d | U-1.20 | SHGC-0.25 all |
| Metal framing (entrance door) ^d | U-1.20 | |
| Metal framing (all other) ^d | U-1.20 | |

Figure 7: Required assembly U-Values, ASHRAE 90.1

Section 6.0, Heating, Ventilation, and Air Conditioning

6.1 General

Though the structure in question is technically an addition, but only in that it physically connects to the existing structure. Aside from being able to travel between the two buildings, however, the new structure is classified mechanically as a stand-alone building and falls under the category listed by section 6.1.1.1 as a “new building.”

6.2 Compliance Path(s)

The compliance path utilized in the design of the State Institute of Rehabilitation is that outlined by section 6.4, Mandatory Provisions and 6.5, Prescriptive Path.

6.4 Mandatory Provisions

The equipment used in the building must meet the minimum standards outlined in table 6.8.1A and table 6.8.1F. These requirements, which are met by the building, can be found in Appendix B.

All ductwork is adequately insulated according to Specification 15525, shown here:

| INSULATION SCHEDULE - RECTANGULAR DUCTWORK (SEE PARAGRAPH 2.07, B ABOVE) | | | |
|---|-----------|---------|---------|
| | CONCEALED | EXPOSED | OUTDOOR |
| TYPE | D-1 | D-2 | D-4 |
| FINISH | --- | --- | F-3 |
| THICKNESS (MIN) | 1 IN. | 1 IN. | 2 IN. |
| VAPORSEAL REQD | YES | YES | YES |

D. Insulation schedule - round ductwork except outdoor air intake duct:

| INSULATION SCHEDULE - ROUND DUCTWORK (SEE PARAGRAPH 2.07, B ABOVE) | | |
|---|-----------|---------|
| | CONCEALED | EXPOSED |
| TYPE | D-1 | D-1 |
| FINISH | --- | F-4 |
| THICKNESS (MIN) | 1 IN. | 1 IN. |
| VAPORSEAL REQD. | YES | YES |

Figure 8: Specified Insulation values for types of ductwork

6.5 Prescriptive Path

Each of the nine AHUs is equipped with a 0%-100% outside air economizer. The configuration of the AHU’s at the Institute of Rehabilitation utilizes outdoor air intake from the sides of the unit via horizontal louvers. Together, the outside air intake and the return air comprise 100% of the design supply air in the building, as per Specification 157800.001.

Section 7.0, Service Water Heating

Compliance will be determined based on Section 7.4, Mandatory Provisions and Section 7.5, the Prescriptive Path. It must be noted that the hospital is a continuously run system due to its occupancy classification for inpatient care. The HVAC system, therefore, was not designed to include “off-hour” operation settings.

All motorized dampers, except as noted, are to be tight close off dampers with 0% leakage, as presented in Specification 15980, section 2.08.

The heating hot water, generated by the three boilers in the mechanical room, is circulated throughout the building in a two pipe supply and return configuration. Make-up water in hot water boilers is softened and demineralized.

Section 8.0, Power

The State Institute of Rehabilitation uses open-ventilated, dry type transformers with an allowable temperature rise of 115°C as prescribed in Specification 16060. As per the specifications in the Mandatory Provisions, the maximum voltage drop across a feeder is 2% of the design load. The maximum voltage drop across a branch circuit is 3% of design load.

Section 9.0, Lighting

As a healthcare facility, the Institute of Rehabilitation is allowed on average to have a Lighting Power Density (LPD) of 1.21, as per Table 9.5.1 in ASHRAE 90.1. The building uses mostly recessed direct and indirect fluorescent lighting and adheres, as an average, to the requirements.

ASHRAE 90.1, Summary

The State Institute of Rehabilitation, though fully functioning and aesthetically pleasing, will require system updates going forwards. The DX system, though operational, is not necessarily as efficient as connecting the building to the chiller plant, located beneath the original building. Going forwards, system updates would be advisable. Keeping structural limitations in mind, it would be prudent to introduce a mechanical room on the roof and, also, to connect the new building to the existing buildings plant. This would also require system updates to existing equipment in the plant and will take a great deal of redesign which, though expensive, would serve the building well in the long run.

APPENDIX B

Mandatory Provisions for ASHRAE 90.1, Section 6.4

**TABLE 6.8.1A Electronically Operated Unitary Air Conditioners and Condensing Units—
Minimum Efficiency Requirements**

| Equipment Type | Size Category | Heating Section Type | Subcategory or Rating Condition | Minimum Efficiency ^a | Test Procedure ^b |
|------------------------------|----------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------|
| Air conditioners, air cooled | <65,000 Btu/h ^c | All | Split system | 13.0 SEER | |
| | | | Single package | 13.0 SEER | |

Figure 1: Required efficiency of split system, air cooled air conditioner

TABLE 6.8.1F Gas- and Oil-Fired Boilers, Minimum Efficiency Requirements

| Equipment Type ^a | Subcategory or Rating Condition | Size Category (Input) | Minimum Efficiency ^{b,c} | Efficiency as of 3/2/2010 (Date 3 yrs after ASHRAE Board Approval) | Efficiency as of 3/2/2020 (Date 13 yrs after ASHRAE Board Approval) | Test Procedure |
|-----------------------------|---------------------------------|--|-----------------------------------|--|---|-----------------|
| Boilers, hot water | Gas-fired | <300,000 Btu/h | 80% AFUE | 80% AFUE | 80% AFUE | 10 CFR Part 430 |
| | | ≥300,000 Btu/h and ≤2,500,000 Btu/h ^d | 75% E_f | 80% E_f | 80% E_f | 10 CFR Part 431 |
| | | >2,500,000 Btu/h ^e | 80% E_c | 82% E_c | 82% E_c | |
| | Oil-fired ^f | <300,000 Btu/h | 80% AFUE | 80% AFUE | 80% AFUE | 10 CFR Part 430 |
| | | ≥300,000 Btu/h and ≤2,500,000 Btu/h ^d | 78% E_f | 82% E_f | 82% E_f | 10 CFR Part 431 |
| | | >2,500,000 Btu/h ^e | 83% E_c | 84% E_c | 84% E_c | |

Figure 1: Required efficiency of gas fired boiler, <300,000 BTU/hr.

Ventilation Calculation and Comparison

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|-----------------------------------|-------|-------------|-----------------|-----------------|----------------|---------------------------------|------------------------|-----|------|----------------------------|------------------------|------|-------------|----------------------|----------------|----------------|----------------|------------|-------------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | PERSON | SF | Per sf | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied |
| | | | | | | | | | | | | | | | | | | | |
| 2-190 Corridor | RTU 1 | 0.0 | 1,262 | 10 | 12,620 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 2-191 Patient Room | RTU 1 | 2.0 | 226 | 10 | 2,260 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | 98 | 1.30 | |
| 2-192 Patient Room | RTU 1 | 2.0 | 226 | 10 | 2,260 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | 94 | 1.25 | |
| 2-193 Staff Break and Locker Room | RTU 1 | 4.0 | 211 | 10 | 2,110 | | | | | Break Rooms | 5 | 2.5 | 0 | | 45 | | 56 | 1.25 | |
| 2-194 S Toilet | RTU 1 | 0.0 | 40 | 10 | 400 | Toilet room | 10 | N/R | Yes | | | | 0 | | 67 | | 0 | N/R | |
| 2-195 Electrical | RTU 1 | 0.0 | 60 | 10 | 600 | | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | 1 | 1.25 | |
| 2-196 VIP Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-197 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-198 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-199 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-200 Clean | RTU 1 | 0.0 | 101 | 10 | 1,010 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 34 | | | | 42 | 1.25 | |
| 2-201 Cenral Bathing | RTU 1 | 2.0 | 129 | 10 | 1,290 | Bathing Room | 10 | N/R | Yes | | | | 0 | | 215 | | 0 | N/R | |
| 2-202 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-203 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-204 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-205 two bed Patient Room | RTU 1 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-206 Closet | RTU 1 | 0.0 | 15 | 10 | 150 | | | | | Storage Rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 2-207 Clean Linen | RTU 1 | 0.0 | 72 | 10 | 720 | Clean linen storage | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 2-208 Janitors Closet | RTU 1 | 0.0 | 15 | 10 | 150 | Janitors closet | 10 | N/R | Yes | | | | 0 | | 25 | | 0 | N/R | |
| 2-209 HK | RTU 1 | 0.0 | 66 | 10 | 660 | | | | | Storage Rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 2-210 Soil Utility | RTU 1 | 0 | 72 | 10 | 720 | Soiled or decontamination room | 6 | 2 | Yes | | | | 24 | 1 | 72 | | 30 | 1.25 | |
| 2-211 two bed Patient Room | RTU 1 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 2-212 two bed Patient Room | RTU 1 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 3-200 Corridor | RTU 2 | 0.0 | 1,262 | 10 | 12,620 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 3-201 Patient Room | RTU 2 | 2.0 | 227 | 10 | 2,270 | Patient Rooms | 6 | 2 | N/R | | | | 76 | | | | 95 | 1.25 | |
| 3-202 Patient Room | RTU 2 | 2.0 | 227 | 10 | 2,270 | Patient Rooms | 6 | 2 | N/R | | | | 76 | | | | 95 | 1.25 | |
| 3-203 Staff Break | RTU 2 | 4.0 | 212 | 10 | 2,120 | | | | | Break Rooms | 5 | 2.5 | 0 | | 45 | | 56 | 1.25 | |
| 3-204 S Toilet | RTU 2 | 0.0 | 40 | 10 | 400 | Toilet room | 10 | N/R | Yes | | | | 0 | | 67 | | 0 | N/R | |
| 3-205 Electric | RTU 2 | 0.0 | 60 | 10 | 600 | | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | 1 | 1.25 | |
| 3-206 VIP Patient Room | RTU 2 | 2.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 3-207 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 3-208 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 3-209 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | 113 | | | | 142 | 1.25 | |
| 3-210 Clean | RTU 2 | 0.0 | 110 | 10 | 1,100 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 37 | | | | 46 | 1.25 | |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|----------------------------------|-------|-------------|-----------------|-----------------|----------------|------------------------------------|------------------------|-----|------|----------------------------|------------------------|------|----------------|----------------------|----------------|----------------|---------|-------------|--------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | OA | EXH. | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied | |
| | | | | | | | | | | | | | | | | | | | PERSON |
| 3-211 Central Bathing | RTU 2 | 2.0 | 129 | 10 | 1,290 | bathing room | 10 | N/R | Yes | | | | | 0 | | 215 | | 0 | N/R |
| 3-212 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 3-213 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 3-214 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 3-215 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 3-216 Closet | RTU 2 | 0.0 | 15 | 10 | 150 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 |
| 3-217 Clean Linen | RTU 2 | 0.0 | 72 | 10 | 720 | Clean linen storage | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 3-218 Janitors Closet | RTU 2 | 0.0 | 15 | 10 | 150 | Janitors closet | 10 | N/R | Yes | | | | | 0 | | 25 | | 0 | N/R |
| 3-219 HK | RTU 2 | 0.0 | 66 | 10 | 660 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 |
| 3-220 Soil Utility | RTU 2 | 0.0 | 72 | 10 | 720 | Soiled workroom or soiled holding | 10 | 2 | Yes | | | | | 24 | | 120 | | 30 | 1.25 |
| 3-221 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 3-222 two bed Patient Room | RTU 2 | 4.0 | 340 | 10 | 3,400 | Patient Rooms | 6 | 2 | N/R | | | | | 113 | | | | 142 | 1.25 |
| 2-100 Elevator Lobby | RTU 3 | 0.0 | 278 | 10 | 2,780 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-101 Corridor | RTU 3 | 0.0 | 911 | 10 | 9,110 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-102 Nurse Station | RTU 3 | 4.0 | 240 | 10 | 2,400 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | | 26 | 1.25 |
| 2-104 Chart | RTU 3 | 2.0 | 194 | 10 | 1,940 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 2-105 Drug Distribution | RTU 3 | 0.0 | 120 | 10 | 1,200 | Medication room | 4 | 2 | N/R | | | | | 40 | | | | 50 | 1.25 |
| 2-106 Day Dining | RTU 3 | 12.0 | 2,493 | 10 | 24,930 | Resident gathering/activity/dining | 4 | 3 | N/R | | | | | 1247 | | | | 1558 | 1.25 |
| 2-107 SCI Coordination | RTU 3 | 2 | 115 | 10 | 1,150 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 2-108 Assistant Therapy Director | RTU 3 | 1.0 | 115 | 10 | 1,150 | Bathroom | 10 | N/R | Yes | Office Spaces | 5 | 0.06 | 0 | 0 | 6 | 192 | | 0 | N/R |
| 2-109 Team Conference Family Act | RTU 3 | 4.0 | 350 | 10 | 3,500 | Bathroom | 10 | N/R | Yes | | | | | 0 | | 583 | | 0 | N/R |
| 2-110 Vestibule | RTU 3 | 0.0 | 55 | 10 | 550 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-111 Corridor | RTU 3 | 0.0 | 134 | 10 | 1,340 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-112 Corridor | RTU 3 | 0.0 | 800 | 10 | 8,000 | Patient Rooms | 6 | 2 | N/R | | | | | 267 | | | | 333 | 1.25 |
| 2-113 Patient Room | RTU 3 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-114 Patient Room | RTU 3 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-115 Nourishment | RTU 3 | 2.0 | 70 | 10 | 700 | | | | | Kitchenettes | 0 | 0 | 0.3 | | 0 | | | 0 | N/R |
| 2-116 Patient Room | RTU 3 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-117 Exam | RTU 3 | 2.0 | 142 | 10 | 1,420 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 2-118 Patient Room | RTU 3 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-119 Consultant Speech | RTU 3 | 1.0 | 134 | 10 | 1,340 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-120 Patient Room | RTU 3 | 3.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-121 Nurse Manager | RTU 3 | 1.0 | 104 | 10 | 1,040 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-122 Patient Room | RTU 3 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | | 75 | | | | 93 | 1.25 |
| 2-123 Doctors Dictation | RTU 3 | 2.0 | 122 | 10 | 1,220 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 2-160 Corridor | RTU 3 | 0.0 | 1,122 | 10 | 11,220 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-161 two bed Patient Room | RTU 3 | 4.0 | 334 | 10 | 3,340 | Patient Rooms | 6 | 2 | N/R | | | | | 111 | | | | 139 | 1.25 |
| 2-162 Data Telecom | RTU 3 | 0.0 | 69 | 10 | 690 | | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | | 1 | 1.25 |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|-----------------------------------|-------|-------------|-----------------|-----------------|----------------|------------------------------------|------------------------|-----|------|----------------------------|------------------------|------|-------------|----------------------|----------------|----------------|----------------|------------|-------------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | PERSON | SF | Per sf | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied |
| | | | | | | | | | | | | | | | | | | | |
| 2-163 Respiratory Therapy Storage | RTU 3 | 0.0 | 90 | 10 | 900 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 30 | | | | | 38 | 1.25 |
| 2-164 Psych Office | RTU 3 | 1.0 | 128 | 10 | 1,280 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-165 Case Manager Office | RTU 3 | 1.0 | 128 | 10 | 1,280 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-166 Respiratory Therapy | RTU 3 | 2.0 | 135 | 10 | 1,350 | Physical Therapy | 6 | 2 | N/R | | | | 45 | | | | 56 | 1.25 | |
| 2-167 Case Manager | RTU 3 | 1.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-168 Case Manager | RTU 3 | 1.0 | 131 | 10 | 1,310 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 2-169 Patient Toilet | RTU 3 | 0.0 | 50 | 10 | 500 | Toilet room | 10 | N/R | Yes | | | | 0 | | | 83 | | 0 | N/R |
| 2-170 Patient Toilet | RTU 3 | 0.0 | 50 | 10 | 500 | Toilet room | 10 | N/R | Yes | | | | 0 | | | 83 | | 0 | N/R |
| 2-186 Electrical | RTU 3 | 0.0 | 48 | 10 | 480 | | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | | 1 | 1.25 |
| 3-100 Elevator Lobby | RTU 4 | 0.0 | 278 | 10 | 2,780 | | | | | Lobbies/prefunctionion | 7.5 | 0.06 | 0 | | 1 | | | 1 | 1.25 |
| 3-101 Corridor | RTU 4 | 0.0 | 911 | 10 | 9,110 | corridor | 2 | N/R | N/R | | | | 0 | | | | | 0 | N/R |
| 3-102 Nurse Station | RTU 4 | 4.0 | 240 | 10 | 2,400 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | | 26 | 1.25 |
| 3-104 Chart | RTU 4 | 2.0 | 194 | 10 | 1,940 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 3-105 Drug Distribution | RTU 4 | 0.0 | 120 | 10 | 1,200 | Medication room | 4 | 2 | N/R | | | | 40 | | | | | 50 | 1.25 |
| 3-106 Day Dining | RTU 4 | 12.0 | 249 | 10 | 2,490 | Resident gathering/activity/dining | 4 | 3 | N/R | | | | 125 | | | | | 156 | 1.25 |
| 3-107 TBI Coordination | RTU 4 | 1.0 | 107 | 10 | 1,070 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-108 Director of Rehabilitation | RTU 4 | 1.0 | 107 | 10 | 1,070 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-109 Test | RTU 4 | 2.0 | 106 | 10 | 1,060 | examination room | 6 | 2 | N/R | | | | 35 | | | | | 44 | 1.25 |
| 3-110 Team Conference Family Act | RTU 4 | 4.0 | 448 | 10 | 4,480 | Occupational therapy | 6 | 2 | N/R | | | | 149 | | | | | 187 | 1.25 |
| 3-111 Corridor | RTU 4 | 0.0 | 87 | 10 | 870 | Corridor | 2 | N/R | N/R | | | | 0 | | | | | 0 | N/R |
| 3-112 Corridor | RTU 4 | 0.0 | 800 | 10 | 8,000 | Corridor | 2 | N/R | N/R | | | | 0 | | | | | 0 | N/R |
| 3-113 Patient Room | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-114 Patient Room | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-115 Nourishment | RTU 4 | 2.0 | 70 | 10 | 700 | | | | | Kitchenettes | 0 | 0 | 0.3 | | 0 | | | 0 | N/R |
| 3-116 Patient Room | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-117 Exam | RTU 4 | 2.0 | 142 | 10 | 1,420 | examination room | 6 | 2 | N/R | | | | 47 | | | | | 59 | 1.25 |
| 3-118 Patient Room | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-119 Consultant Speech | RTU 4 | 1.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-120 Patient Bedroom | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-121 Nurse Manager | RTU 4 | 1 | 105 | 10 | | | | | | Office Spaces | | | | | | | | | |
| 3-122 Patient Bedroom | RTU 4 | 2.0 | 224 | 10 | 2,240 | Patient Rooms | 6 | 2 | N/R | | | | 75 | | | | | 93 | 1.25 |
| 3-123 Doctors Dictation | RTU 4 | 2.0 | 115 | 10 | 1,150 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | | 13 | 1.25 |
| 3-125 two bed Patient Room | RTU 4 | 2.0 | 334 | 10 | 3,340 | Patient Rooms | 6 | 2 | N/R | | | | 111 | | | | | 139 | 1.25 |
| 3-131 SCU Dining | RTU 4 | 4.0 | 481 | 10 | 4,810 | Resident gathering/activity/dining | 4 | 3 | N/R | | | | 241 | | | | | 301 | 1.25 |
| 3-151 two bed Patient Room | RTU 4 | 4.0 | 375 | 10 | 3,750 | Patient Rooms | 6 | 2 | N/R | | | | 125 | | | | | 156 | 1.25 |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|--------------------------------|-------|-------------|-----------------|-----------------|----------------|-----------------------------------|------------------------|-----|------|----------------------------|------------------------|------|----------------|----------------------|----------------|----------------|---------|-------------|--------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | OA | EXH. | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied | |
| | | | | | | | | | | | | | | | | | | | PERSON |
| 3-153 two bedroom Patient Room | RTU 4 | 4 | 375 | 10 | 3,750 | Patient Rooms | 6 | 2 | N/R | | | | | 125 | | | | 156 | 1.25 |
| 3-156 two bed Patient Room | RTU 4 | 4.0 | 375 | 10 | 3,750 | Patient Rooms | 6 | 2 | N/R | | | | | 125 | | | | 156 | 1.25 |
| 3-160 Corridor | RTU 4 | 0.0 | 1,123 | 10 | 11,230 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 3-161 two bed Patient Room | RTU 4 | 4.0 | 334 | 10 | 3,340 | Patient Rooms | 6 | 2 | N/R | | | | | 111 | | | | 139 | 1.25 |
| 3-162 Data Telecom | RTU 4 | 0.0 | 30 | 10 | 300 | | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | | 1 | 1.25 |
| 3-163 Case Manager | RTU 4 | 1.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-164 Speech Office 01 | RTU 4 | 1.0 | 128 | 10 | 1,280 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-165 Speech Office 04 | RTU 4 | 1.0 | 128 | 10 | 1,280 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-166 Case Manager | RTU 4 | 1.0 | 136 | 10 | 1,360 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-167 Psych Office 02 | RTU 4 | 1.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-168 Psych Office 01 | RTU 4 | 1.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | | 7 | 1.25 |
| 3-169 Patient Toilet | RTU 4 | 0.0 | 50 | 10 | 500 | Toilet room | 10 | N/R | Yes | | | | | 0 | | 83 | | 0 | N/R |
| 3-170 Patient Toilet | RTU 4 | 0.0 | 50 | 10 | 500 | Toilet room | 10 | N/R | Yes | | | | | 0 | | 83 | | 0 | N/R |
| 2-124 Soiled Utility | RTU 5 | 0.0 | 63 | 10 | 630 | Soiled workroom or soiled holding | 10 | 2 | Yes | | | | | 21 | | 105 | | 26 | 1.25 |
| 2-125 two bed Patient Room | RTU 5 | 4.0 | 335 | 10 | 3,350 | Patient Rooms | 6 | 2 | N/R | | | | | 112 | | | | 140 | 1.25 |
| 2-126 Corridor | RTU 5 | 0.0 | 176 | 10 | 1,760 | Patient Rooms | 6 | 2 | N/R | | | | | 59 | | | | 73 | 1.25 |
| 2-127 WC and Bed Storage | RTU 5 | 0.0 | 240 | 10 | 2,400 | Clean workroom or clean holding | 4 | 2 | N/R | | | | | 80 | | | | 100 | 1.25 |
| 2-130 Corridor | RTU 5 | 0.0 | 536 | 10 | 5,360 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-131 Vent Storage | RTU 5 | 1.0 | 210 | 10 | 2,100 | Clean workroom or clean holding | 4 | 2 | N/R | | | | | 70 | | | | 88 | 1.25 |
| 2-132 two bed Patient Room | RTU 5 | 4.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | | 127 | | | | 158 | 1.25 |
| 2-133 Clean | RTU 5 | 2.0 | 80 | 10 | 800 | Clean workroom or clean holding | 4 | 2 | N/R | | | | | 27 | | | | 33 | 1.25 |
| 2-134 Central Bathing | RTU 5 | 2.0 | 152 | 10 | 1,520 | bathing room | 10 | N/R | Yes | | | | | 0 | | 253 | | 0 | N/R |
| 2-135 Oxygen | RTU 5 | 0.0 | 28 | 10 | 280 | Clean workroom or clean holding | 4 | 2 | N/R | | | | | 9 | | | | 12 | 1.25 |
| 2-136 two bed Patient Room | RTU 5 | 2.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | | 127 | | | | 158 | 1.25 |
| 2-137 two bed Patient Room | RTU 5 | 2.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | | 127 | | | | 158 | 1.25 |
| 2-138 Nurse Station | RTU 5 | 4.0 | 202 | 10 | 2,020 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | | 26 | 1.25 |
| 2-139 Drug Distribution | RTU 5 | 0.0 | 133 | 10 | 1,330 | Medication room | 4 | 2 | N/R | | | | | 44 | | | | 55 | 1.25 |
| 2-140 Charting | RTU 5 | 0.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 1 | | | 1 | 1.25 |
| 2-141 Corridor | RTU 5 | 0.0 | 657 | 10 | 6,570 | Corridor | 2 | N/R | N/R | | | | | 0 | | | | 0 | N/R |
| 2-142 Janitors Closet | RTU 5 | 0.0 | 54 | 10 | 540 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 |
| 2-143 Patient Room | RTU 5 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | | 83 | | | | 103 | 1.25 |
| 2-144 Patient Room | RTU 5 | 2 | 248 | 10 | | Patient Rooms | 6 | 2 | N/R | | | | | | | | | | |
| 2-145 Patient Room | RTU 5 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | | 83 | | | | 103 | 1.25 |
| 2-146 Patient Room | RTU 5 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | | 83 | | | | 103 | 1.25 |
| 2-147 Isolation Room | RTU 5 | 1.0 | 280 | 10 | 2,800 | All room | 12 | 2 | Yes | | | | | 93 | | 560 | | 117 | 1.25 |
| 2-148 HK | RTU 5 | 0.0 | 54 | 10 | 540 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 |
| 2-150 two bed Patient Room | RTU 5 | 4.0 | 374 | 10 | 3,740 | Patient Rooms | 6 | 2 | N/R | | | | | 125 | | | | 156 | 1.25 |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRA E 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|------------------------------------|-------|-------------|-----------------|-----------------|----------------|---------------------------------|------------------------|-----|------|--------------------------|------------------------|------|----------------|----------------------|----------------|----------------|---------|-------------|--------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | OA | EXH. | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied | |
| | | | | | | | | | | | | | | | | | | | PERSON |
| 2-151 Supply | RTU 5 | 0.0 | 189 | 10 | 1,890 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 63 | | | | 79 | 1.25 | |
| 2-152 two bed Patient Room | RTU 5 | 4.0 | 374 | 10 | 3,740 | Patient Rooms | 6 | 2 | N/R | | | | 125 | | | | 156 | 1.25 | |
| 2-153 Clean Linen | RTU 5 | 0.0 | 54 | 10 | 540 | Clean linen storage | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 2-155 two bed Patient Room | RTU 5 | 4.0 | 374 | 10 | 3,740 | Patient Rooms | 6 | 2 | N/R | | | | 125 | | | | 156 | 1.25 | |
| 3-130 Corridor | RTU-6 | 0.0 | 536 | 10 | 5,360 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 3-132 two bed Patient Room | RTU-6 | 4.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | 127 | | | | 158 | 1.25 | |
| 3-133 Clean | RTU-6 | 0.0 | 80 | 10 | 800 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 27 | | | | 33 | 1.25 | |
| 3-135 Oxygen | RTU-6 | 0.0 | 28 | 10 | 280 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 9 | | | | 12 | 1.25 | |
| 3-136 two bed Patient Room | RTU-6 | 4.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | 127 | | | | 158 | 1.25 | |
| 3-137 two bed Patient Room | RTU-6 | 4.0 | 380 | 10 | 3,800 | Patient Rooms | 6 | 2 | N/R | | | | 127 | | | | 158 | 1.25 | |
| 3-138 Nurse Station | RTU-6 | 4.0 | 203 | 10 | 2,030 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | 26 | 1.25 | |
| 3-139 Drug Distribution | RTU-6 | 0.0 | 133 | 10 | 1,330 | Medication room | 4 | 2 | N/R | | | | 44 | | | | 55 | 1.25 | |
| 3-140 Charting | RTU-6 | 2.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | 13 | 1.25 | |
| 3-141 Corridor | RTU-6 | 0.0 | 312 | 10 | 3,120 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 3-143 Patient Room | RTU-6 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | 83 | | | | 103 | 1.25 | |
| 3-144 Patient Room | RTU-6 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | 83 | | | | 103 | 1.25 | |
| 3-145 Corridor | RTU-6 | 0.0 | 344 | 10 | 3,440 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 3-146 Patient Room | RTU-6 | 2 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | 83 | | | | 103 | 1.25 | |
| 3-147 Patient Room | RTU-6 | 2.0 | 248 | 10 | 2,480 | Patient Rooms | 6 | 2 | N/R | | | | 83 | | | | 103 | 1.25 | |
| 3-148 Isolation Room | RTU-6 | 1.0 | 280 | 10 | 2,800 | All room | 12 | 2 | Yes | | | | 93 | | 560 | | 117 | 1.25 | |
| 3-149 HK | RTU-6 | 0.0 | 54 | 10 | 540 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 3-150 Corridor | RTU-6 | 0.0 | 510 | 10 | 5,100 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 2-172 Toilet | RTU-7 | 0.0 | 64 | 10 | 640 | Toilet room | 10 | N/R | Yes | | | | 0 | | 107 | | 0 | N/R | |
| 2-173 Gym Storage | RTU-7 | 0.0 | 456 | 10 | 4,560 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 2-174 Spinal Cord Injury Therapy G | RTU-7 | 10.0 | 7,707 | 10 | 77,070 | Physical Therapy | 6 | 2 | N/R | | | | 2569 | | | | 3211 | 1.25 | |
| 2-175 Charting | RTU-7 | 2.0 | 465 | 10 | 4,650 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | 13 | 1.25 | |
| 2-176 Corridor | RTU-7 | 0.0 | 214 | 10 | 2,140 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 2-177 Toilet | RTU-7 | 0.0 | 60 | 10 | 600 | Toilet room | 10 | N/R | Yes | | | | 0 | | 100 | | 0 | N/R | |
| 2-178 CT 1 | RTU-7 | 1.0 | 81 | 10 | 810 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 2-179 CT2 | RTU-7 | 1.0 | 81 | 10 | 810 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 2-180 E ADL Equipment | RTU-7 | 0.0 | 180 | 10 | 1,800 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 2-181 E ADL | RTU-7 | 4.0 | 165 | 10 | 1,650 | Physical Therapy | 6 | 2 | N/R | | | | 55 | | | | 69 | 1.25 | |
| 2-182 Office | RTU-7 | 1.0 | 100 | 10 | 1,000 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 2-183 Treatment | RTU-7 | 2.0 | 151 | 10 | 1,510 | Treatment room | 6 | 2 | N/R | | | | 50 | | | | 63 | 1.25 | |
| 2-184 Sr Therapists | RTU-7 | 2.0 | 133 | 10 | 1,330 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | 13 | 1.25 | |
| 2-185 Toilet | RTU-7 | 0.0 | 52 | 10 | 520 | Toilet room | 10 | N/R | Yes | | | | 0 | | 87 | | 0 | N/R | |
| 3-177 CT1 | RTU-7 | 1.0 | 80 | 10 | 800 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 33 | 1.25 | |
| 3-178 CT2 | RTU-7 | 1.0 | 80 | 10 | 800 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 33 | 1.25 | |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|----------------------------------|-------|-------------|-----------------|-----------------|----------------|---------------------------------|------------------------|-----|------|-------------------------|------------------------|------|----------------|----------------------|----------------|----------------|---------|-------------|--------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | OA | EXH. | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied | |
| | | | | | | | | | | | | | | | | | | | PERSON |
| 3-172 Toilet | RTU-8 | 0.0 | 63 | 10 | 630 | Toilet room | 10 | N/R | Yes | | | | 0 | | 105 | | 0 | N/R | |
| 3-173 SCU Treatment | RTU-8 | 2.0 | 239 | 10 | 2,390 | Treatment room | 6 | 2 | N/R | | | | 80 | | | | 100 | 1.25 | |
| 3-174 SCU Gym Storage | RTU-8 | 0.0 | 90 | 10 | 900 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 3-175 SCU Therapy Gym | RTU-8 | 20.0 | 3,062 | 10 | 30,620 | Physical Therapy | 6 | 2 | N/R | | | | 1021 | | | | 1276 | 1.25 | |
| 3-175A SCU Gym Storage | RTU-8 | 0.0 | 93 | 10 | 930 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 3-175B SCU Gym Charting | RTU-8 | 4.0 | 128 | 10 | 1,280 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | 26 | 1.25 | |
| 3-176 Charting | RTU-8 | 2.0 | 465 | 10 | 4,650 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | 13 | 1.25 | |
| 3-180 Speech Office 03 | RTU-8 | 1.0 | 137 | 10 | 1,370 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 3-181 Corridor | RTU-8 | 0.0 | 213 | 10 | 2,130 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 3-182 Toilet | RTU-8 | 0.0 | 60 | 10 | 600 | Toilet room | 10 | N/R | Yes | | | | 0 | | 100 | | 0 | N/R | |
| 3-183 CT1 | RTU-8 | 1.0 | 82 | 10 | 820 | resident room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 3-184 CT2 | RTU-8 | 1.0 | 82 | 10 | 820 | resident room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 3-185 PCU Therapy Gym | RTU-8 | 20.0 | 4,416 | 10 | 44,160 | Physical Therapy | 6 | 2 | N/R | | | | 1472 | | | | 1840 | 1.25 | |
| 3-186 Speech Office 02 | RTU-8 | 1.0 | 100 | 10 | 1,000 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 3-188 PCU Gym Storage | RTU-8 | 0.0 | 352 | 10 | 3,520 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 3-190 Treatment | RTU-8 | 2.0 | 152 | 10 | 1,520 | Treatment room | 6 | 2 | N/R | | | | 51 | | | | 63 | 1.25 | |
| 3-191 TBI Equipment Coordination | RTU-8 | 0.0 | 134 | 10 | 1,340 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 45 | | | | 56 | 1.25 | |
| 3-192 Toilet | RTU-8 | 0.0 | 52 | 10 | 520 | Toilet room | 10 | N/R | Yes | | | | 0 | | 87 | | 0 | N/R | |
| 1-100 Vestibule | RTU 9 | 0.0 | 172 | 10 | 1,720 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-101 Lobby | RTU 9 | 0.0 | 1,231 | 10 | 12,310 | | | | | Lobbies/prefunction | 7.5 | 0.06 | 0 | | 1 | | 1 | 1.25 | |
| 1-102 Security Reception | RTU 9 | 1.0 | 140 | 10 | 1,400 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-103 Elevator Lobby | RTU 9 | 0.0 | 600 | 10 | 6,000 | | | | | Lobbies/prefunction | 7.5 | 0.06 | 0 | | 1 | | 1 | 1.25 | |
| 1-104 Elevator Machine Room | RTU 9 | 0.0 | 160 | 10 | 1,600 | | | | | Elevator Machine Rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 1-105 Corridor | RTU 9 | 0.0 | 1,326 | 10 | 13,260 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-106 Gift Shop | RTU 9 | 4 | 500 | 10 | | | | | | Sales (except as below) | | | | | | | | | |
| 1-106A Gift Shop Storage | RTU 9 | 0.0 | 265 | 10 | 2,650 | | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 1-107 Service Access | RTU 9 | 0.0 | 200 | 10 | 2,000 | | | | | Storage Rooms | 0 | 0.12 | 0 | | 1 | | 2 | 1.25 | |
| 1-108 Reception Waiting | RTU 9 | 0.0 | 180 | 10 | 1,800 | | | | | lobbies | 5 | 0.06 | 0 | | 1 | | 1 | 1.25 | |
| 1-108A Directors Office | RTU 9 | 1.0 | 120 | 10 | 1,200 | | | | | Lobbies | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 1-108B Cashier Office | RTU 9 | 1.0 | 103 | 10 | 1,030 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 1-108C Storage | RTU 9 | 0.0 | 26 | 10 | 260 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 9 | | | | 11 | 1.25 | |
| 1-108D Interview | RTU 9 | 2.0 | 87 | 10 | 870 | | | | | Office Spaces | 5 | 0.06 | 0 | | 11 | | 13 | 1.25 | |
| 1-108E Copy | RTU 9 | 0.0 | 90 | 10 | 900 | | | | | Copy/Printing Rooms | 0 | 0 | 0.5 | | 0 | | 0 | N/R | |
| 1-108F Work Stations | RTU 9 | 4.0 | 375 | 10 | 3,750 | | | | | Office Spaces | 5 | 0.06 | 0 | | 21 | | 26 | 1.25 | |
| 1-108G Office | RTU 9 | 1 | 92 | 10 | 920 | | | | | Office Spaces | 5 | 0.06 | 0 | | 6 | | 7 | 1.25 | |
| 1-109 Mens Restroom | RTU 9 | 0.0 | 256 | 10 | 2,560 | Bathroom | 10 | N/R | Yes | | | | 0 | | 427 | | 0 | N/R | |
| 1-110 Womens Restroom | RTU 9 | 0.0 | 256 | 10 | 2,560 | Bathroom | 10 | N/R | Yes | Office Spaces | 5 | 0.06 | 0 | 0 | 1 | 427 | 0 | N/R | |

VENTILATION SCHEDULE

| ROOM NAME | SYS. | No. of Ppl. | ROOM DIMENSIONS | | | Space Type(ASHRAE 170) | MIN. AIR CHGS. PER HR. | | | Space Type(ASHRAE 62.1) | MIN. AIR CHGS. PER HR. | | | MINIMUM CFM REQUIRED | | | | DESIGN CFM | |
|---------------------------|-------|-------------|-----------------|-----------------|----------------|------------------------------------|------------------------|-----|----------------------------|-------------------------|------------------------|----|-------------|----------------------|----------------|----------------|----------------|------------|-------------|
| | | | AREA (SF) | HGT. (FT.) | VOL. (CF) | | AIA GUIDELINES | | | | IMC GUIDELINES | | OUTSIDE AIR | | EXH. | | O.A. | | |
| | | | | | | | SUP. | OA | EXH. | | PERSON | SF | Per sf | AIA (CFM) | IMC (CFM) | AIA (CFM) | IMC (CFM) | (CFM) | OA Supplied |
| | | | | | | | | | | | | | | | | | | | |
| 1-112 Vestibule | RTU 9 | 0.0 | 140 | 10 | 1,400 | | | | Break Rooms | 5 | 2.5 | 0 | | 25 | | | 31 | 1.25 | |
| 1-113 Corridor | RTU 9 | 0.0 | 1,285 | 10 | 12,850 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-114 Residents Study | RTU 9 | 4.0 | 170 | 10 | 1,700 | Resident gathering/activity/dining | 4 | 3 | N/R | | | | 85 | | | | 106 | 1.25 | |
| 1-114A Residents Lounge | RTU 9 | 4.0 | 412 | 10 | 4,120 | Resident gathering/activity/dining | 4 | 3 | N/R | | | | 206 | | | | 258 | 1.25 | |
| 1-114B Toilet | RTU 9 | 0.0 | 55 | 10 | 550 | Toilet room | 10 | N/R | Yes | | | | 0 | | 92 | | 0 | N/R | |
| 1-114C Residents Quiet 1 | RTU 9 | 2.0 | 82 | 10 | 820 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 1-114D Residents Quiet 2 | RTU 9 | 2.0 | 82 | 10 | 820 | Resident Room | 2 | 2 | N/R | | | | 27 | | | | 34 | 1.25 | |
| 1-120 Service Corridor | RTU 9 | 0.0 | 981 | 10 | 9,810 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-121 Storage | RTU 9 | 0.0 | 585 | 10 | 5,850 | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 | |
| 1-124 Bulk Soiled Holding | RTU 9 | 0.0 | 238 | 10 | 2,380 | Soiled workroom or soiled holding | 10 | 2 | Yes | | | | 79 | | 397 | | 99 | 1.25 | |
| 1-125 Employee Locker | RTU 9 | 4.0 | 204 | 10 | 2,040 | | | | Break Rooms | 5 | 2.5 | 0 | | 45 | | | 56 | 1.25 | |
| 1-126 Vacuum | RTU 9 | 0.0 | 202 | 10 | 2,020 | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 | |
| 1-127 Oxygen Distribution | RTU 9 | 0.0 | 60 | 10 | 600 | Clean workroom or clean holding | 4 | 2 | N/R | | | | 20 | | | | 25 | 1.25 | |
| 1-128 Corridor | RTU 9 | 0.0 | 287 | 10 | 2,870 | Corridor | 2 | N/R | N/R | | | | 0 | | | | 0 | N/R | |
| 1-132 Janitors Closet | RTU 9 | 0.0 | 40 | 10 | 400 | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 | |
| 1-133 HK | RTU 9 | 0.0 | 40 | 10 | 400 | | | | storage rooms | 0 | 0.12 | 0 | | 1 | | | 2 | 1.25 | |
| 1-135 Electrical | RTU 9 | 0.0 | 48 | 10 | 480 | | | | Electrical Equipment Rooms | 0 | 0.06 | 0 | | 1 | | | 1 | 1.25 | |

| VENTILATION SCHEDULE COMPARISON | | | | | |
|-----------------------------------|--------|------------|----------------|------------|-------------|
| Room Name | System | DESIGN CFM | | | |
| | | Actual | | Calculated | |
| | | SA | 30% OA MINIMUM | (CFM) | OA Supplied |
| 2-190 Corridor | RTU 1 | 1100.00 | 363.00 | 0 | 0.00 |
| 2-191 Patient Room | RTU 1 | 400.00 | 132.00 | 94 | 1.25 |
| 2-192 Patient Room | RTU 1 | 400.00 | 132.00 | 94 | 2.09 |
| 2-193 Staff Break and Locker Room | RTU 1 | 635.00 | 209.55 | 56 | N/R |
| 2-194 S Toilet | RTU 1 | - | - | 0 | 0.00 |
| 2-195 Electrical | RTU 1 | - | - | 1 | 0.01 |
| 2-196 VIP Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-197 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-198 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-199 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 4.21 |
| 2-200 Clean | RTU 1 | 100.00 | 33.00 | 42 | N/R |
| 2-201 Cenral Bathing | RTU 1 | - | - | 0 | 0.00 |
| 2-202 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-203 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-204 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-205 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 118.06 |
| 2-206 Closet | RTU 1 | - | - | 2 | N/R |
| 2-207 Clean Linen | RTU 1 | - | - | 0 | N/R |
| 2-208 Janitors Closet | RTU 1 | - | - | 0 | 0.00 |
| 2-209 HK | RTU 1 | - | - | 2 | 0.06 |
| 2-210 Soil Utility | RTU 1 | - | - | 30 | 0.26 |
| 2-211 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | 1.25 |
| 2-212 two bed Patient Room | RTU 1 | 775.00 | 255.75 | 142 | N/R |
| 3-200 Corridor | RTU 2 | 1100.00 | 363.00 | 0 | 0.00 |
| 3-201 Patient Room | RTU 2 | 400.00 | 132.00 | 95 | 1.25 |
| 3-202 Patient Room | RTU 2 | 400.00 | 132.00 | 95 | 2.10 |
| 3-203 Staff Break | RTU 2 | 635.00 | 209.55 | 56 | N/R |
| 3-204 S Toilet | RTU 2 | - | - | 0 | 0.00 |
| 3-205 Electric | RTU 2 | - | - | 1 | 0.01 |
| 3-206 VIP Patient Room | RTU 2 | 775.00 | 255.75 | 142 | 1.25 |
| 3-207 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | 1.25 |
| 3-208 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | N/R |
| 3-209 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 0 | 0.00 |
| 3-210 Clean | RTU 2 | 100.00 | 33.00 | 142 | 3.86 |
| 3-211 Central Bathing | RTU 2 | - | - | 46 | N/R |
| 3-212 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 0 | 0.00 |
| 3-213 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | 1.25 |
| 3-214 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | 1.25 |
| 3-215 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | 1.25 |
| 3-216 Closet | RTU 2 | - | - | 142 | 118.06 |
| 3-217 Clean Linen | RTU 2 | - | - | 2 | N/R |
| 3-218 Janitors Closet | RTU 2 | - | - | 0 | N/R |
| 3-219 HK | RTU 2 | - | - | 0 | 0.00 |
| 3-220 Soil Utility | RTU 2 | - | - | 2 | 0.06 |
| 3-221 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 30 | 0.26 |
| 3-222 two bed Patient Room | RTU 2 | 775.00 | 255.75 | 142 | N/R |
| 2-100 Elevator Lobby | RTU 3 | 225.00 | 74.25 | 0 | N/R |
| 2-101 Corridor | RTU 3 | 700.00 | 231.00 | 0 | N/R |
| 2-102 Nurse Station | RTU 3 | 225.00 | 74.25 | 0 | 0.00 |
| 2-104 Chart | RTU 3 | 160.00 | 52.80 | 26 | 2.43 |
| 2-105 Drug Distribution | RTU 3 | 150.00 | 49.50 | 13 | 0.33 |
| 2-106 Day Dining | RTU 3 | 3500.00 | 1155.00 | 50 | 0.04 |
| 2-107 SCI Coordination | RTU 3 | 120 | 39.60 | 1558 | 146.99 |
| 2-108 Assistant Therapy Director | RTU 3 | 120.00 | 39.60 | 13 | N/R |
| 2-109 Team Conference Family Ac | RTU 3 | 2000.00 | 660.00 | 0 | N/R |
| 2-110 Vestibule | RTU 3 | - | - | 0 | N/R |
| 2-111 Corridor | RTU 3 | 600.00 | 198.00 | 0 | N/R |
| 2-112 Corridor | RTU 3 | 600.00 | 198.00 | 0 | 0.00 |
| 2-113 Patient Room | RTU 3 | 400.00 | 132.00 | 333 | 4.46 |
| 2-114 Patient Room | RTU 3 | 400.00 | 132.00 | 93 | 1.25 |
| 2-115 Nourishment | RTU 3 | 75.00 | 24.75 | 93 | N/R |
| 2-116 Patient Room | RTU 3 | 400.00 | 132.00 | 0 | 0.00 |
| 2-117 Exam | RTU 3 | 100.00 | 33.00 | 93 | 8.81 |
| 2-118 Patient Room | RTU 3 | 400.00 | 132.00 | 13 | 0.18 |
| 2-119 Consultant Speech | RTU 3 | 100.00 | 33.00 | 93 | 16.67 |
| 2-120 Patient Room | RTU 3 | 400.00 | 132.00 | 7 | 0.09 |

| VENTILATION SCHEDULE COMPARISON | | | | | |
|-----------------------------------|--------|------------|----------------|------------|-------------|
| Room Name | System | DESIGN CFM | | | |
| | | Actual | | Calculated | |
| | | SA | 30% OA MINIMUM | (CFM) | OA Supplied |
| 2-121 Nurse Manager | RTU 3 | 100.00 | 33.00 | 93 | 16.67 |
| 2-122 Patient Room | RTU 3 | 400.00 | 132.00 | 7 | 0.09 |
| 2-123 Doctors Dictation | RTU 3 | 100.00 | 33.00 | 93 | 8.81 |
| 2-160 Corridor | RTU 3 | 600.00 | 198.00 | 13 | N/R |
| 2-161 two bed Patient Room | RTU 3 | 775.00 | 255.75 | 0 | 0.00 |
| 2-162 Data Telecom | RTU 3 | 100.00 | 33.00 | 139 | 231.94 |
| 2-163 Respiratory Therapy Storage | RTU 3 | - | - | 1 | 0.03 |
| 2-164 Psych Office | RTU 3 | 100.00 | 33.00 | 38 | 6.70 |
| 2-165 Case Manager Office | RTU 3 | 100.00 | 33.00 | 7 | 1.25 |
| 2-166 Respiratory Therapy | RTU 3 | 105.00 | 34.65 | 7 | 0.16 |
| 2-167 Case Manager | RTU 3 | 100.00 | 33.00 | 56 | 10.04 |
| 2-168 Case Manager | RTU 3 | 100.00 | 33.00 | 7 | 1.25 |
| 2-169 Patient Toilet | RTU 3 | - | - | 7 | N/R |
| 2-170 Patient Toilet | RTU 3 | - | - | 0 | N/R |
| 2-186 Electrical | RTU 3 | - | - | 0 | N/R |
| 3-100 Elevator Lobby | RTU 4 | 225.00 | 74.25 | 0 | 0.00 |
| 3-101 Corridor | RTU 4 | 700.00 | 231.00 | 1 | N/R |
| 3-102 Nurse Station | RTU 4 | 225.00 | 74.25 | 0 | 0.00 |
| 3-104 Chart | RTU 4 | 160.00 | 52.80 | 26 | 2.43 |
| 3-105 Drug Distribution | RTU 4 | 150.00 | 49.50 | 13 | 0.33 |
| 3-106 Day Dining | RTU 4 | 3500.00 | 1155.00 | 50 | 0.40 |
| 3-107 TBI Coordination | RTU 4 | 100.00 | 33.00 | 156 | 27.79 |
| 3-108 Director of Rehabilitation | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-109 Test | RTU 4 | 100.00 | 33.00 | 7 | 0.20 |
| 3-110 Team Conference Family Act | RTU 4 | 2000.00 | 660.00 | 44 | 0.30 |
| 3-111 Corridor | RTU 4 | 600.00 | 198.00 | 187 | N/R |
| 3-112 Corridor | RTU 4 | 500.00 | 165.00 | 0 | N/R |
| 3-113 Patient Room | RTU 4 | 400.00 | 132.00 | 0 | 0.00 |
| 3-114 Patient Room | RTU 4 | 400.00 | 132.00 | 93 | 1.25 |
| 3-115 Nourishment | RTU 4 | 75.00 | 24.75 | 93 | N/R |
| 3-116 Patient Room | RTU 4 | 400.00 | 132.00 | 0 | 0.00 |
| 3-117 Exam | RTU 4 | 100.00 | 33.00 | 93 | 1.97 |
| 3-118 Patient Room | RTU 4 | 400.00 | 132.00 | 59 | 0.79 |
| 3-119 Consultant Speech | RTU 4 | 110.00 | 36.30 | 93 | 16.67 |
| 3-120 Patient Bedroom | RTU 4 | 400.00 | 132.00 | 7 | 0.09 |
| 3-121 Nurse Manager | RTU 4 | 100 | 33.00 | 93 | N/R |
| 3-122 Patient Bedroom | RTU 4 | 400.00 | 132.00 | 0 | 0.00 |
| 3-123 Doctors Dictation | RTU 4 | 100.00 | 33.00 | 93 | 8.81 |
| 3-125 two bed Patient Room | RTU 4 | 775.00 | 255.75 | 13 | 0.12 |
| 3-131 SCU Dining | RTU 4 | - | - | 139 | 0.58 |
| 3-151 two bed Patient Room | RTU 4 | 775.00 | 255.75 | 301 | 2.41 |
| 3-153 two bedroom Patient Room | RTU 4 | 775 | 255.75 | 156 | 1.25 |
| 3-156 two bed Patient Room | RTU 4 | 775.00 | 255.75 | 156 | 1.25 |
| 3-160 Corridor | RTU 4 | 500.00 | 165.00 | 156 | N/R |
| 3-161 two bed Patient Room | RTU 4 | 400.00 | 132.00 | 0 | 0.00 |
| 3-162 Data Telecom | RTU 4 | 100.00 | 33.00 | 139 | 231.94 |
| 3-163 Case Manager | RTU 4 | 100.00 | 33.00 | 1 | 0.13 |
| 3-164 Speech Office 01 | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-165 Speech Office 04 | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-166 Case Manager | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-167 Psych Office 02 | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-168 Psych Office 01 | RTU 4 | 100.00 | 33.00 | 7 | 1.25 |
| 3-169 Patient Toilet | RTU 4 | - | - | 7 | N/R |
| 3-170 Patient Toilet | RTU 4 | - | - | 0 | N/R |
| 2-124 Soiled Utility | RTU 5 | - | - | 0 | 0.00 |
| 2-125 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 26 | 0.24 |
| 2-126 Corridor | RTU 5 | 215.00 | 70.95 | 140 | 2.38 |
| 2-127 WC and Bed Storage | RTU 5 | 33.00 | 10.89 | 73 | 0.92 |
| 2-130 Corridor | RTU 5 | 215.00 | 70.95 | 100 | N/R |
| 2-131 Vent Storage | RTU 5 | 33.00 | 10.89 | 0 | 0.00 |
| 2-132 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 88 | 0.69 |
| 2-133 Clean | RTU 5 | 33.00 | 10.89 | 158 | 5.94 |

| VENTILATION SCHEDULE COMPARISON | | | | | |
|------------------------------------|--------|------------|----------------|------------|-------------|
| Room Name | System | DESIGN CFM | | | |
| | | Actual | | Calculated | |
| | | SA | 30% OA MINIMUM | (CFM) | OA Supplied |
| 2-134 Central Bathing | RTU 5 | 66.00 | 21.78 | 33 | N/R |
| 2-135 Oxygen | RTU 5 | - | - | 0 | 0.00 |
| 2-136 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 12 | 0.09 |
| 2-137 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 158 | 1.25 |
| 2-138 Nurse Station | RTU 5 | 83.00 | 27.39 | 158 | 7.69 |
| 2-139 Drug Distribution | RTU 5 | 36.00 | 11.88 | 26 | 0.58 |
| 2-140 Charting | RTU 5 | 107.00 | 35.31 | 55 | 92.36 |
| 2-141 Corridor | RTU 5 | 272.00 | 89.76 | 1 | N/R |
| 2-142 Janitors Closet | RTU 5 | - | - | 0 | 0.00 |
| 2-143 Patient Room | RTU 5 | 400.00 | 132.00 | 2 | 0.02 |
| 2-144 Patient Room | RTU 5 | 400 | 132.00 | 103 | N/R |
| 2-145 Patient Room | RTU 5 | 400.00 | 132.00 | 0 | 0.00 |
| 2-146 Patient Room | RTU 5 | 400.00 | 132.00 | 103 | 1.25 |
| 2-147 Isolation Room | RTU 5 | 740.00 | 244.20 | 103 | 1.11 |
| 2-148 HK | RTU 5 | - | - | 117 | 97.22 |
| 2-150 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 2 | 0.01 |
| 2-151 Supply | RTU 5 | 33.00 | 10.89 | 156 | 2.47 |
| 2-152 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 79 | 0.63 |
| 2-153 Clean Linen | RTU 5 | - | - | 156 | N/R |
| 2-155 two bed Patient Room | RTU 5 | 775.00 | 255.75 | 0 | N/R |
| 3-130 Corridor | RTU-6 | 650.00 | 214.50 | 0 | N/R |
| 3-132 two bed Patient Room | RTU-6 | 775.00 | 255.75 | 0 | 0.00 |
| 3-133 Clean | RTU-6 | 100.00 | 33.00 | 158 | 5.94 |
| 3-135 Oxygen | RTU-6 | - | - | 33 | 3.57 |
| 3-136 two bed Patient Room | RTU-6 | 775.00 | 255.75 | 12 | 0.09 |
| 3-137 two bed Patient Room | RTU-6 | 775.00 | 255.75 | 158 | 1.25 |
| 3-138 Nurse Station | RTU-6 | 250.00 | 82.50 | 158 | 7.69 |
| 3-139 Drug Distribution | RTU-6 | 75.00 | 24.75 | 26 | 0.58 |
| 3-140 Charting | RTU-6 | 325.00 | 107.25 | 55 | 5.23 |
| 3-141 Corridor | RTU-6 | 425.00 | 140.25 | 13 | N/R |
| 3-143 Patient Room | RTU-6 | 400.00 | 132.00 | 0 | 0.00 |
| 3-144 Patient Room | RTU-6 | 400.00 | 132.00 | 103 | 1.25 |
| 3-145 Corridor | RTU-6 | 775.00 | 255.75 | 103 | N/R |
| 3-146 Patient Room | RTU-6 | 400 | 132.00 | 0 | 0.00 |
| 3-147 Patient Room | RTU-6 | 400.00 | 132.00 | 103 | 1.25 |
| 3-148 Isolation Room | RTU-6 | 740.00 | 244.20 | 103 | 1.11 |
| 3-149 HK | RTU-6 | - | - | 117 | 97.22 |
| 3-150 Corridor | RTU-6 | 500.00 | 165.00 | 2 | N/R |
| 2-172 Toilet | RTU-7 | - | - | 0 | N/R |
| 2-173 Gym Storage | RTU-7 | 150.00 | 49.50 | 0 | 0.00 |
| 2-174 Spinal Cord Injury Therapy G | RTU-7 | 7500.00 | 2475.00 | 2 | 0.00 |
| 2-175 Charting | RTU-7 | 450.00 | 148.50 | 3211 | 302.95 |
| 2-176 Corridor | RTU-7 | 200.00 | 66.00 | 13 | N/R |
| 2-177 Toilet | RTU-7 | - | - | 0 | N/R |
| 2-178 CT 1 | RTU-7 | 100.00 | 33.00 | 0 | 0.00 |
| 2-179 CT2 | RTU-7 | 100.00 | 33.00 | 34 | 1.25 |
| 2-180 E ADL Equipment | RTU-7 | 150.00 | 49.50 | 34 | 28.13 |
| 2-181 E ADL | RTU-7 | 150.00 | 49.50 | 2 | 0.03 |
| 2-182 Office | RTU-7 | 150.00 | 49.50 | 69 | 12.28 |
| 2-183 Treatment | RTU-7 | 700.00 | 231.00 | 7 | 0.14 |
| 2-184 Sr Therapists | RTU-7 | 200.00 | 66.00 | 63 | 5.94 |
| 2-185 Toilet | RTU-7 | - | - | 13 | N/R |
| 3-177 CT1 | RTU-7 | 100.00 | 33.00 | 0 | 0.00 |
| 3-178 CT2 | RTU-7 | 100.00 | 33.00 | 33 | N/R |
| 3-172 Toilet | RTU-8 | - | - | 0 | N/R |
| 3-173 SCU Treatment | RTU-8 | 300 | 99.00 | 0 | 0.00 |
| 3-174 SCU Gym Storage | RTU-8 | - | - | 100 | 82.99 |
| 3-175 SCU Therapy Gym | RTU-8 | 4300 | 1419.00 | 2 | 0.00 |
| 3-175A SCU Gym Storage | RTU-8 | - | - | 1276 | 1063.19 |
| 3-175B SCU Gym Charting | RTU-8 | - | - | 2 | 0.07 |
| 3-176 Charting | RTU-8 | 450 | 148.50 | 26 | 2.43 |
| 3-180 Speech Office 03 | RTU-8 | 150 | 49.50 | 13 | 2.37 |
| 3-181 Corridor | RTU-8 | 200 | 66.00 | 7 | N/R |
| 3-182 Toilet | RTU-8 | - | - | 0 | N/R |
| 3-183 CT1 | RTU-8 | 100 | 33.00 | 0 | 0.00 |
| 3-184 CT2 | RTU-8 | 100 | 33.00 | 34 | 1.25 |
| 3-185 PCU Therapy Gym | RTU-8 | 4300 | 1419.00 | 34 | 0.02 |
| 3-186 Speech Office 02 | RTU-8 | 450 | 148.50 | 1840 | 328.57 |

| VENTILATION SCHEDULE COMPARISON | | | | | |
|----------------------------------|--------|------------|----------------|------------|-------------|
| Room Name | System | DESIGN CFM | | | |
| | | Actual | | Calculated | |
| | | SA | 30% OA MINIMUM | (CFM) | OA Supplied |
| 3-188 PCU Gym Storage | RTU-8 | 200 | 66.00 | 7 | 5.83 |
| 3-190 Treatment | RTU-8 | 600 | 198.00 | 2 | 0.03 |
| 3-191 TBI Equipment Coordination | RTU-8 | 450 | 148.50 | 63 | 1.42 |
| 3-192 Toilet | RTU-8 | - | - | 56 | N/R |
| 1-100 Vestibule | RTU 9 | - | - | 0 | N/R |
| 1-101 Lobby | RTU 9 | 2500.00 | 825.00 | 0 | 0.00 |
| 1-102 Security Reception | RTU 9 | 160.00 | 52.80 | 1 | N/R |
| 1-103 Elevator Lobby | RTU 9 | 300.00 | 99.00 | 0 | 0.00 |
| 1-104 Elevator Machine Room | RTU 9 | 750.00 | 247.50 | 1 | 0.63 |
| 1-105 Corridor | RTU 9 | 400.00 | 132.00 | 2 | 1.25 |
| 1-106 Gift Shop | RTU 9 | 400.00 | 132.00 | 2 | N/R |
| 1-106A Gift Shop Storage | RTU 9 | 280.00 | 92.40 | 0 | 0.00 |
| 1-107 Service Access | RTU 9 | 280.00 | 92.40 | 2 | 1.25 |
| 1-108 Reception Waiting | RTU 9 | 2550.00 | 841.50 | 2 | 2.50 |
| 1-108A Directors Office | RTU 9 | 240.00 | 79.20 | 1 | 0.13 |
| 1-108B Cashier Office | RTU 9 | 475.00 | 156.75 | 7 | 1.25 |
| 1-108C Storage | RTU 9 | 400.00 | 132.00 | 7 | 0.81 |
| 1-108D Interview | RTU 9 | 200.00 | 66.00 | 11 | 1.02 |
| 1-108E Copy | RTU 9 | 420.00 | 138.60 | 13 | N/R |
| 1-108F Work Stations | RTU 9 | 310.00 | 102.30 | 0 | 0.00 |
| 1-108G Office | RTU 9 | - | - | 26 | 4.60 |
| 1-109 Mens Restroom | RTU 9 | - | - | 7 | N/R |
| 1-110 Womens Restroom | RTU 9 | - | - | 0 | N/R |
| 1-112 Vestibule | RTU 9 | 120.00 | 39.60 | 0 | 0.00 |
| 1-113 Corridor | RTU 9 | 100.00 | 33.00 | 31 | N/R |
| 1-114 Residents Study | RTU 9 | 100.00 | 33.00 | 0 | 0.00 |
| 1-114A Residents Lounge | RTU 9 | 100.00 | 33.00 | 106 | 0.52 |
| 1-114B Toilet | RTU 9 | 160.00 | 52.80 | 258 | N/R |
| 1-114C Residents Quiet 1 | RTU 9 | 400.00 | 132.00 | 0 | 0.00 |
| 1-114D Residents Quiet 2 | RTU 9 | 400.00 | 132.00 | 34 | 1.25 |
| 1-120 Service Corridor | RTU 9 | 245.00 | 80.85 | 34 | N/R |
| 1-121 Storage | RTU 9 | - | - | 0 | 0.00 |
| 1-124 Bulk Soiled Holding | RTU 9 | 100.00 | 33.00 | 2 | 0.02 |
| 1-125 Employee Locker | RTU 9 | 100.00 | 33.00 | 99 | 2.20 |
| 1-126 Vacuum | RTU 9 | - | - | 56 | 46.88 |
| 1-127 Oxygen Distribution | RTU 9 | - | - | 2 | 0.08 |
| 1-128 Corridor | RTU 9 | - | - | 25 | N/R |
| 1-132 Janitors Closet | RTU 9 | - | - | 0 | 0.00 |
| 1-133 HK | RTU 9 | - | - | 2 | 1.25 |
| 1-135 Electrical | RTU 9 | - | - | 2 | N/R |