PART 1 - GENERAL

1.1 OVERVIEW

A. This section supplements Design Guideline Element D3001 with specific requirements for patient treatment occupancies that the A/E must incorporate when calculating HVAC cooling and heating loads.

B. Load calculations must be performed in accordance with the latest ASHRAE Handbook of Fundamentals.

C. Refer to Design Guideline Element D3001 for general design criteria related to outdoor design conditions, internal loads, occupant density, occupant heat rejection, building envelope, and system zoning.

PART 2 - DESIGN CRITERIA

2.1 INDOOR DESIGN CONDITIONS

A. Humidification for control shall be provided for applications where indicated.

B. Coordinate environmental requirements for special equipment in accordance with manufacturer’s recommendations.

C. Design conditions for spaces that house special equipment such as diagnostic imaging and X-ray equipment etc, shall be dictated by the respective equipment manufacturer.

2.2 BUILDING VENTILATION / PRESSURE RELATIONSHIPS

A. The A/E shall ensure that make-up air required to maintain negative pressure and excess air to maintain positive pressure are available and taken into account in the air balance calculations.

B. Supply air to occupied spaces will use a mixture of return air and pretreated outside air, unless noted otherwise herein.

C. Where ASHRAE requires a particular static pressure differential be maintained between the room adjacent spaces, the A/E shall calculate the offset between supply air and exhaust as needed to maintain that pressure. A control strategy shall be designed to track that offset.

D. Room ventilation and pressure relationships shall be based on ASHRAE /ASHE Standard 170 Ventilation of Health Care Facilities (latest version).

E. Pharmacy Compounding Room air change rates, pressurization, and space temperature and humidity requirements shall comply with USP 797 and USP 800.
PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

3.1 GENERAL

A. Unless stated otherwise in these Owner's Design Guidelines, the A/E need not submit calculations or economic analysis for review. Copies must be retained and presented however, to Owner for review upon request.

PART 4 - PRODUCTS

4.1 GENERAL

A. Refer to Owner’s Master Construction Specifications. These are available on the Owner’s Design Guidelines website: http://www2.mdanderson.org/depts/cpm/standards/specs.html

PART 5 - DOCUMENT REVISION HISTORY

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>Revision Description</th>
<th>Reviser</th>
</tr>
</thead>
<tbody>
<tr>
<td>20190301</td>
<td>Original</td>
<td>Issuance</td>
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<td>Rev. 1</td>
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