PART 1 - GENERAL

1.01 OVERVIEW

A. Includes passenger elevators and service elevators. Please note that Owner's elevator types are the following three categories: Public, Staff and Freight. For details of each cab type, refer to Owner’s Elevator Cab Finishes Standards. These are available on the Owner’s Design Guidelines website: http://www2.mdanderson.org/depts/cpm/standards/interiors.html

PART 2 - DESIGN CRITERIA

2.01 GENERAL

A. All elevators shall be traction or hydraulic type, depending on facility requirements.

B. All traction elevators with speeds greater than or equal to 400 fpm shall be gearless traction elevators. If traction elevators serve 8 stops or fewer and are slower than 400 fpm, geared traction elevators are acceptable.

C. Machine room-less elevators are not an acceptable substitute for traction elevators.

D. All guide rails (car and counterweight) for traction and hydraulic elevators shall be machined or planed.

E. Door operator systems shall be closed loop.

F. All elevators shall have stainless steel doors and frames. Doors shall have Warnock/Hersey Label.

G. All hoist ropes shall be steel.

H. All elevators shall have cab control panels on each side of door.

I. Provide two (2) coax cables with the traveling cable.

J. Provide necessary conductors to accommodate in-cab card readers. Coordinate requirements with the security contractor.

K. Blocking shall be provided for cameras to be corner-mounted in each car. Provide one (1) GFI outlet on top of the car for the camera; coordinate location with Owner and with elevator supplier.

L. All elevator indicator illumination / signalization shall be LED type.

M. Hall lanterns shall illuminate green for up and red for down. Hall audibles shall be chime type.

N. All car subfloors shall be marine grade plywood. Confirm finishes with the Owner's Project Manager/Planner Designer.
O. All cars shall have the capability to be monitored from a remote location via modem line.

P. Public, Staff and Freight elevator cab finishes shall be per Owner’s Elevator Cab Finishes Standards. These are available on the Owner’s Design Guidelines website: http://www2.mdanderson.org/depts/cpm/standards/interiors.html. Confirm all finishes and lighting with the Owner’s Project Manager/Planner Designer.

Q. All finishes in elevator cabs serving parking garages shall be a durable vandal-resistant design.

R. All Braille pieces shall be mechanically fastened.

S. All instructions shall be engraved.

T. No manufacturer’s logos shall be present in the elevator.

U. Hydraulic elevators shall be equipped with viscosity control and oil coolers.

V. Owner preference is for use of guide rails that span floor-to-floor without intermediate supports. If intermediate brackets and related support structure must be provided, the elevator shaft and surrounding wall shall be designed and sized to allow continuation of the fire resistance rated shaft wall construction without interruption by support structure.

W. Elevator speed, capacity, cab size, etc, shall be industry standard. Any custom variations must be approved in writing by MD Anderson Administrative Facilities and Campus Operations department (AFCO).

X. The number of stops for each elevator in a bank shall be consistent. No single unit shall serve more stops than the balance of units. Any variations must be approved in writing by AFCO.

PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

3.01 GENERAL

A. In addition to incorporating all applicable life safety and building code requirements, provisions described within this Element shall be included within the Project Contract Documents.

B. Perform an elevator study to confirm quantity, capacity, size, and speed of elevators. Provide a copy of the elevator study to the Campus Operations Representative.

C. Refer to MD Anderson Main Campus Elevator Standards as applicable to the Project, to be confirmed with the A/E.

D. Cab lighting shall comply with requirements of Master Construction Specifications and ANSI/ASHRAE/IESNA 90.1.

E. Obtain approval from Owner’s Project Manager/Planner Designer for all finish schedules prior to issuance of Construction Documents.
PART 4 - PRODUCTS

4.01 GENERAL

A. Warranty shall include a 12-month parts and 3-month continued, full maintenance warranty.

B. New spare parts to be available for a minimum of ten (10) years after installation.

C. MD Anderson to be provided any proprietary tools, manuals, adjuster manuals, part lists, software/hardware updates for the life of the equipment at no additional cost.

D. For renovation projects, refer to Owner’s Master Construction Specifications and Interior Finishes Standards. These are available on the Owner’s Design Guidelines website:
   Construction Specifications - [http://www2.mdanderson.org/depts/cpm/standards/specs.html](http://www2.mdanderson.org/depts/cpm/standards/specs.html)
   Interior Finish Standards - [http://www2.mdanderson.org/depts/cpm/standards/interiors.html](http://www2.mdanderson.org/depts/cpm/standards/interiors.html)

PART 5 - DOCUMENT REVISION HISTORY

<table>
<thead>
<tr>
<th>Issue</th>
<th>Date</th>
<th>Revision Description</th>
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<tbody>
<tr>
<td></td>
<td>01-01-07</td>
<td>Initial Adoption of Element</td>
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<tr>
<td>Rev. 1</td>
<td>05-03-07</td>
<td>Part 2: Revised Design Criteria on elevator speeds; Added notes S through V.</td>
<td>SAK</td>
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<tr>
<td>Rev. 2</td>
<td>08-14-08</td>
<td>Various revisions throughout document incorporating interior standards and eliminating project specific requirements.</td>
<td>LN, SH, DB</td>
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<tr>
<td>Rev. 3</td>
<td>07-08-10</td>
<td>Added paragraph 2.01 V.</td>
<td>JC</td>
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<tr>
<td>Rev. 4</td>
<td>02-03-11</td>
<td>Added notes W and X to Section 2.01.</td>
<td>RB</td>
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END OF ELEMENT D1010