Engineering Tips for Ceiling Lift Installation & Maintenance

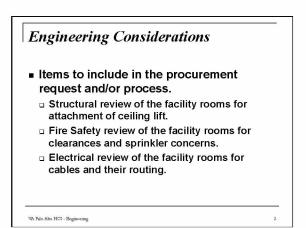
Steven Elliot, Chief, Engineering Services Palo Alto, VAH

> Oakland, California January 24, 2012

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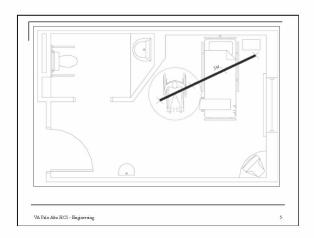


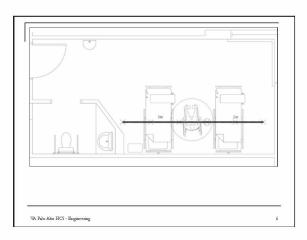
Structures

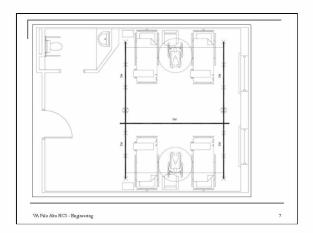
- Plan for a Structural Engineer to review the existing ceiling/roof structure to determine if it can support the additional load for the lift.
- If okay for ceiling attachment, have estimate performed for any non-lift work which must be performed. Include mechanical and electrical.
- Have independent Structural Engineer review submissions from lift vendor as part of submittal process. Don't forget seismic considerations.
- Remember, structural is only part of the full installation package.

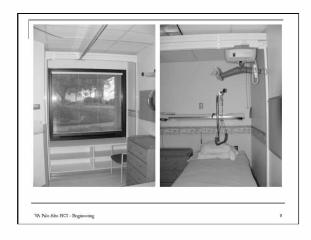
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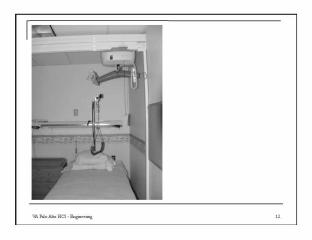


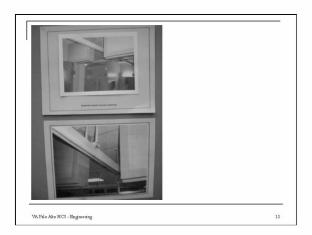


Fire and Life Safety Vendor should provide a summary of fire sprinkler head issues, including blockage and clearance issues. Recommend PE certification. Vendor should address the parking location for lift drive unit and clearances required around the patient bed(s). Recommend lift rail systems not extend beyond the patient room due to interface at doorways. Remember bed curtains, IV poles, TVs, and how they will need to be relocated after installation.













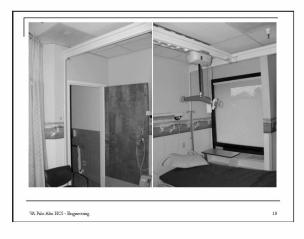
Electrical

- Have an electrical engineer review submittals for compliance with NEC and NFPA 99.
- Have all power provided by a service receptacle which is part of the patient bedside circuit (either normal or emergency circuit).
- Have all metal parts located within the patient vicinity bonded and ground to the patient area ground point.
- Make sure the installation does not interfere with maintenance of lighting and HVAC systems.

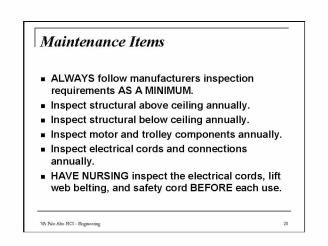
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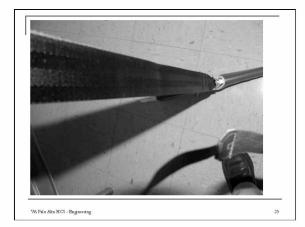


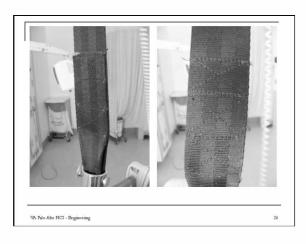












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