Michael Crawford’s Smart Home

Surprise Reveal July 16th, 2014
"On behalf of HEB, we are so grateful for your dedicated service to this country and want to thank you from the bottom of our hearts for everything you have given as you fought for our freedom," says Winell Herron, Group Vice President of Public Affairs and Diversity.
Assistive Design consists of solutions that go beyond being merely accessible and integrates universal design concepts, assistive technologies, and aesthetics to create a uniquely designed home that serves the needs of its occupants.
Assistive Design Features:

- Mosaic tile - provides traction for wet surfaces and Zero-clearance drain - creates a ‘curbless’ shower entry

- Multiple shower heads - placed at varying heights and integrated scald-prevention technology

- Wall-hung, ‘tankless’ toilet - allows for greater clearance and accessibility

- Vanity clearance - for wheelchair access and side-mounted faucets - customized for comfortable reach

- Therapy bathtub - can be used in conjunction with lift system (single lift or track lift)

- Angled mirror - extended visibility for wheelchair occupant
Assistive Design Features:

- **Knee space beneath cooking/prep surface** - can be used in conjunction with a movable work surface
- **Side-swinging oven** - used in conjunction with extendible surface for cookware/dishes
- **Drawer-style appliances** - dishwasher, microwave, etc for easy access & reach
- **Clearance below sink** - apron shields view of pipes and hot supply line
- **Counter dimensions** - counter top is slightly lower than standard to be more comfortable and accessible from a wheelchair
Assistive Design Features:

• **Over-sized garage** - accommodates chair lift and provides added maneuverability

• **Outlets & switches** - heights are adjusted to comfortable reach for the occupant

• **Wide hallways** - 5’-2” clearance provides turning space without having to enter a room

• **Extended baseboards** - protect the wall surface from wheelchair impact. Solid surface flooring is non-slip & non-trip

• **Doors** - Surface-sliding & pocket doors eliminate barriers

• **Multi-zone HVAC** - system allows occupants to adjust the temperature in various parts of the home to accommodate their needs

• **Windows** - casement windows with hand cranks are located to provide easy access

*Michael showed the design team how to operate his truck lifts*
Schematic Plan:

New Schematic Plan was developed after a series of interviews with Michael. The Design Team challenged themselves to make not only an accessible, functional home, but one that is aesthetically strong and feels like a home.
Above: Schematic form of the home

Right: Design maximizes accessibility, promotes independence, provides privacy, and incorporates daylighting throughout the home.
Design incorporates assistive technologies to support Michael and optimize usability of the home.
Michael with his girlfriend Loren and younger brother enjoying a celebratory lunch after finding out he would be receiving a mortgage-free home designed especially for him.