



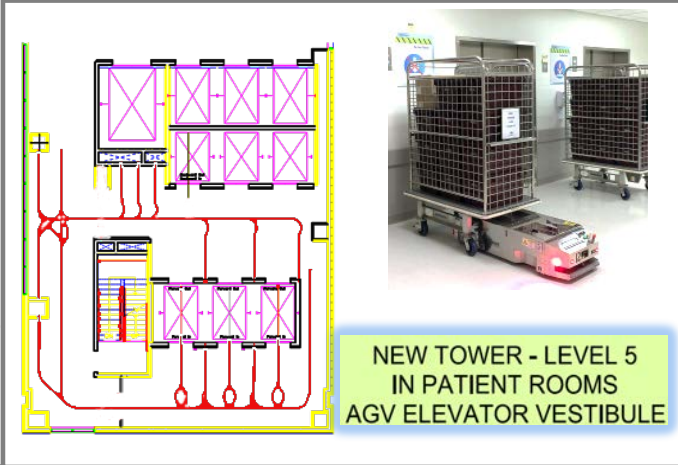
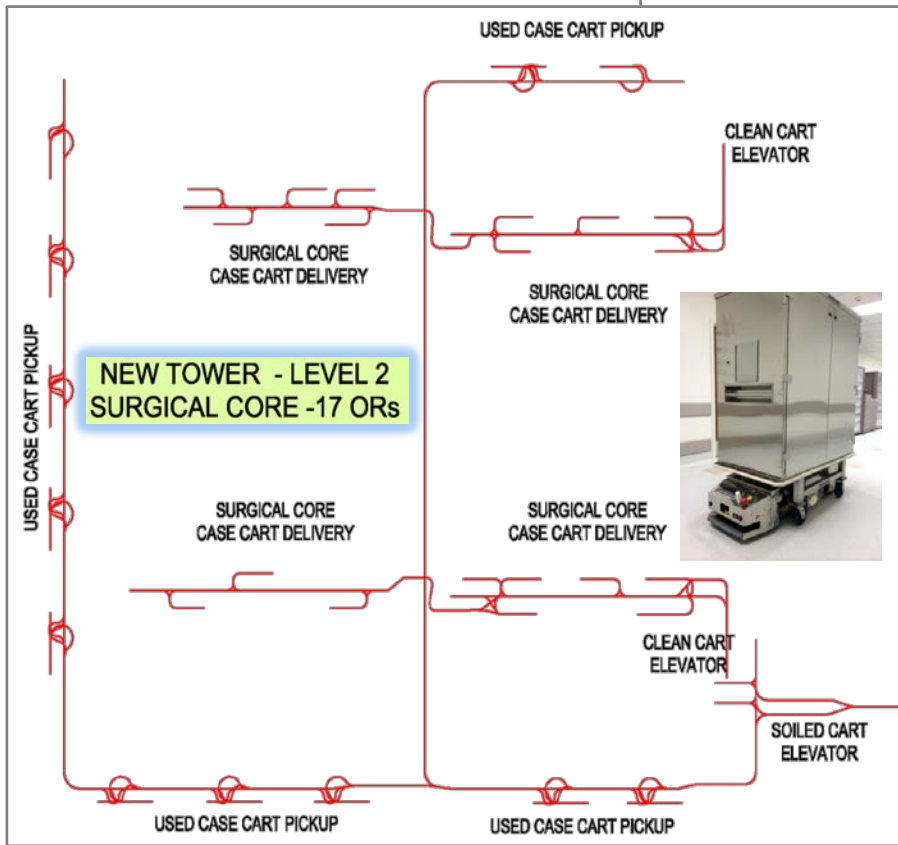
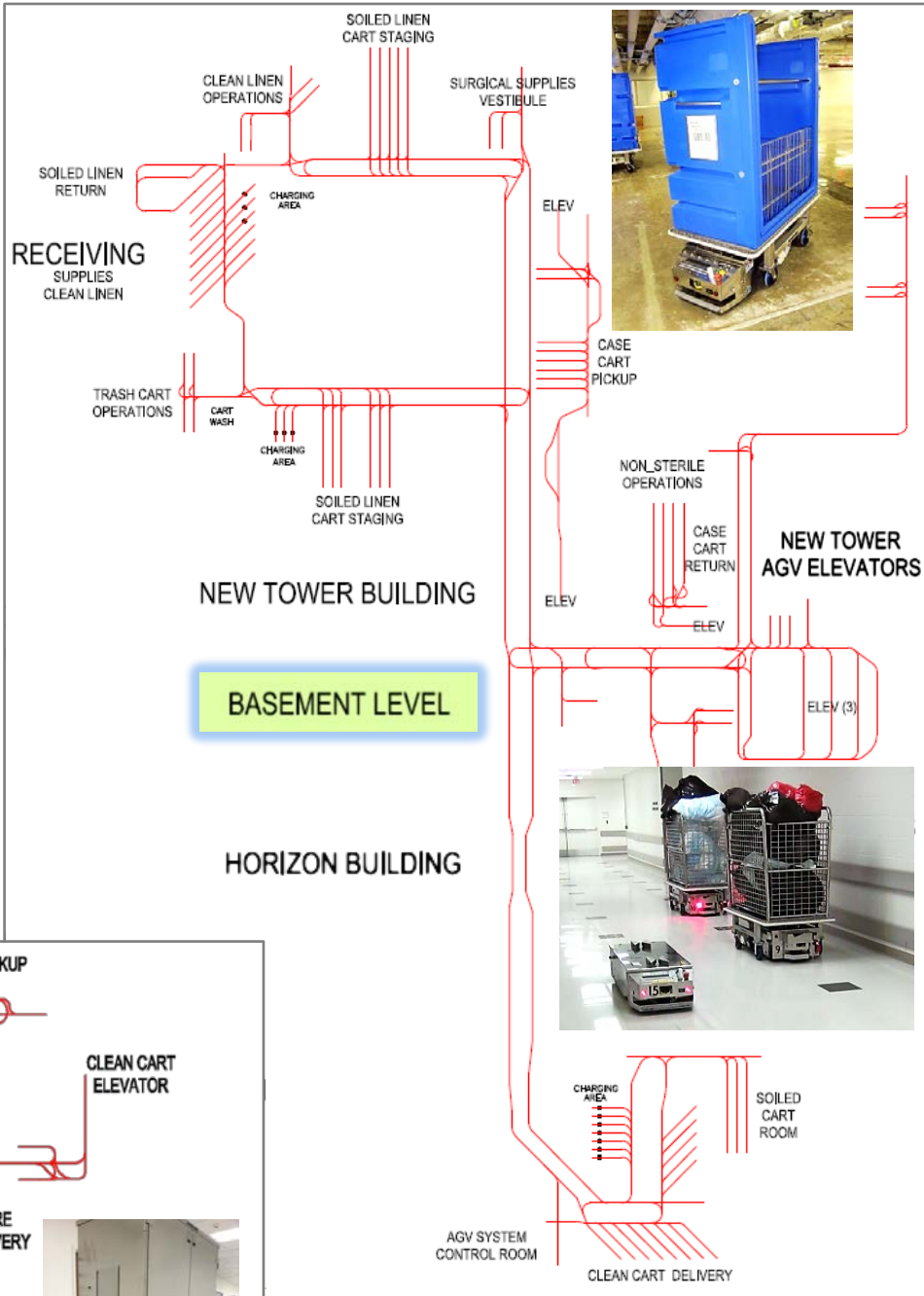
Automated Hospital Cart Transportation System

UNIVERSITY HEALTH SYSTEM



University Health System Hospital San Antonio, TX - Phase 1

- 19 Savant DC-10S Automatic Guided Vehicles, 'target-free' navigation
- 14,000 feet 'virtual' path
- 400 destinations
- 10 floors, 7 elevators
- 3% grade tunnel
- 100 cart moves per hour
- ~31 FTE reduction
- **Payback ~2 yrs.**

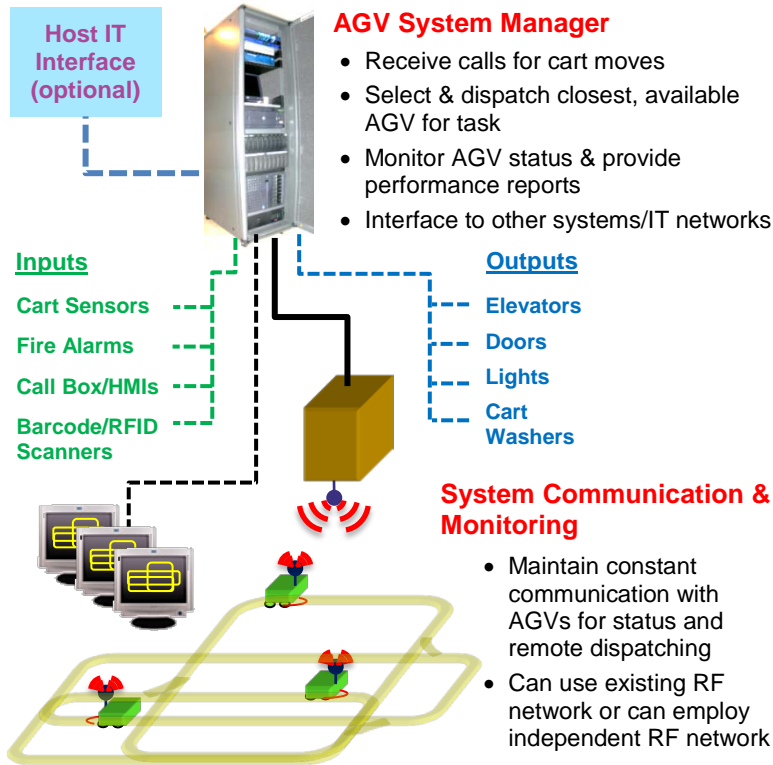




Automated Hospital Cart Transportation System

UNIVERSITY HEALTH SYSTEM

Control System Architecture



Self-Dispatching of Your Hospital Carts

Tag Info Reported By AGV When A Cart Is Dropped Off Or Picked Up:

- Date/Time
- Cart Type - ID
- Cart Location
- Cart Destination

RFID-tagged Cart Move Sequence:

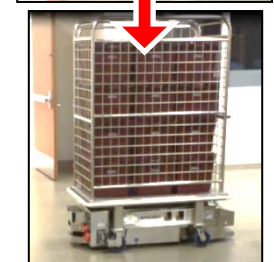
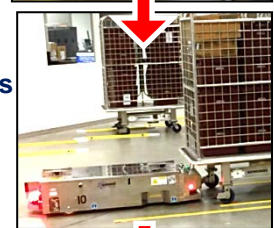
Only Operator Action Required:

1. Place cart in pickup spur



Automatic AGV System Control Actions

2. Cart sensor in ceiling detects cart and calls AGV
3. AGV arrives and reads cart's RFID tag for cart info
4. AGV sends RFID info to AGV System Manager
5. AGV System Manager determines cart destination
6. Cart destination sent back to AGV
7. AGV transports cart to destination



World Class Automated Guided Vehicle (AGV) Hospital Cart Transportation Systems

- Automate your manual cart moves with easily installed 'virtual path' AGV systems for existing or new facilities.
- Realize substantial savings through reduced labor costs and improved process control.
- Under 2 year paybacks are possible.
- Start with small pilot system investment and grow as desired with simple vehicle CAD map changes.

Solutions for Reducing Labor Costs and Better Managing Product Delivery

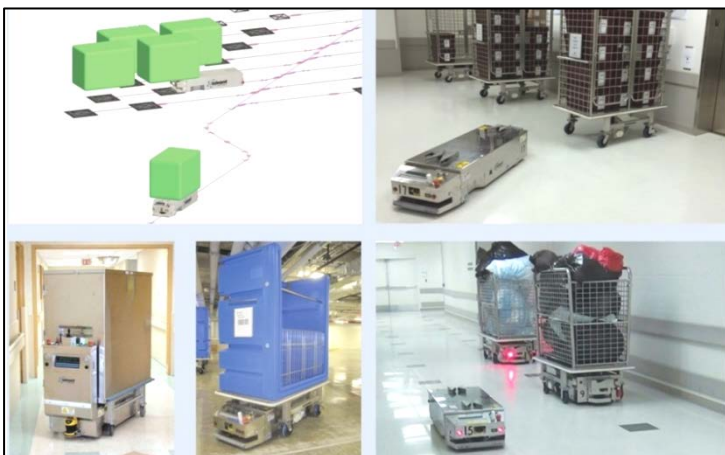
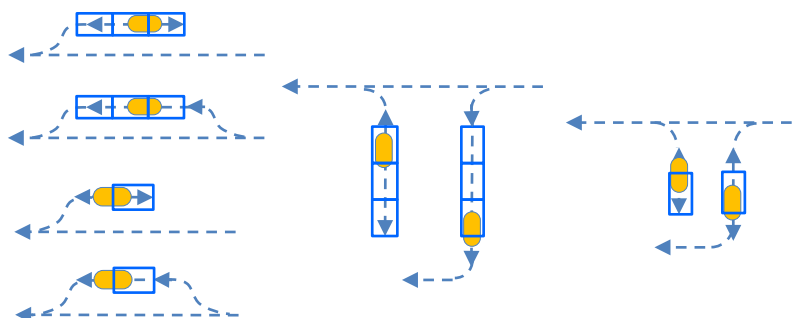
AUTOMATED DELIVERY OF:

- LINENS
- DIETARY / FOOD SERVICE
- PHARMACEUTICALS
- SUPPLIES
- MEDICAL WASTE & TRASH
- STERILE/SURGICAL

INTERFACES WITH:

- ELEVATORS
- CART WASHING
- AUTOMATIC DOORS
- PAGING SYSTEMS
- FIRE ALARM SYSTEMS
- MANAGEMENT IT SYSTEMS

TYPICAL CART PICK & PICK STATION CONFIGURATIONS



NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE BASED ON PRODUCT IMPROVEMENTS OR TECHNICAL REQUIREMENTS.