

Green Build Challenges

December 1, 2011





Past Challenges

- Administrative
- Operational
- Third Party
- Construction

Future Challenges

- Staff
- Revenue Generation
- Budget/Schedule





Administrative Challenges

- Terminal and Landside designs to achieve Board goal of LEED Silver certification
- A strategy to transition from a progressive GMP to four conventional GMPs
- A plan to ensure each JV had:
 - A robust and rigorously enforced safety program
 - A qualified and autonomous QA /QC staff (i.e. independent of the production team) to oversee and guarantee quality
 - An independent commissioning agent

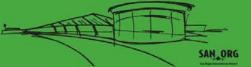




Administrative Challenges

- A Terminal and Landside phasing plan that would permit the facilities to be activated in mid-2013
- Integration of the Contract 1 & 2 baseline schedules
- Development of a timely payment process for GMP invoices
- Timely responses to multiple audits
- Incorporation of audit recommendations into work flow processes





Terminal 2W Operational Challenges

- Maintenance of passenger operations and a high level of customer service in the existing terminals while:
 - Adding new holdrooms and jet gates on the west side of the existing T2W concourse
 - Upgrading existing T2W concourse finishes
 - Implementing the new Concessions Program
- Develop a schedule to permit a mid-2013 opening
- Satisfy stakeholder requirements, e.g. SASS, BMS and CMMS





Landside Operational Challenges

- Maintenance of vehicle operations while developing a new upper level roadway
- Maintenance of passenger operations in Baggage Claim and at the Ground Transit Island while driving piles and drilling caissons
- Development of a schedule to support the mid-2013 opening of the expanded T2W
- Avoid service damage numerous underground utilities





Third Party Challenges

- Multiple SDG&E gas line relocations
- City of San Diego water and sewer line permits
- AT&T phone lines





Construction Challenges - Examples

Structures Below Ground:

 Earthen wall collapsed while drilling 7' diameter x 105' deep caisson for Elevated Departures Roadway Bent 13N

Structures Above Ground:

- 180 structural steel tie-ins/penetrations to existing roof/structure
- Concrete finish on first inclined column (discolored & "marbled")
- Lightweight "Cell-Crete" roof on Sunset Cove (removed/replaced)
- Aircraft apron concrete panels (Twenty-three 20' x 20'panels removed due to unacceptable cracking. Switched to a night time operation to avoid problems with wind and sun.)

San Diego International Airport

The Green Build

Moving Forward. Soaring Higher.



Inclined Column





San Diego International Airport

The Green Build Moving Forward. Soaring Higher.



Inclined Column





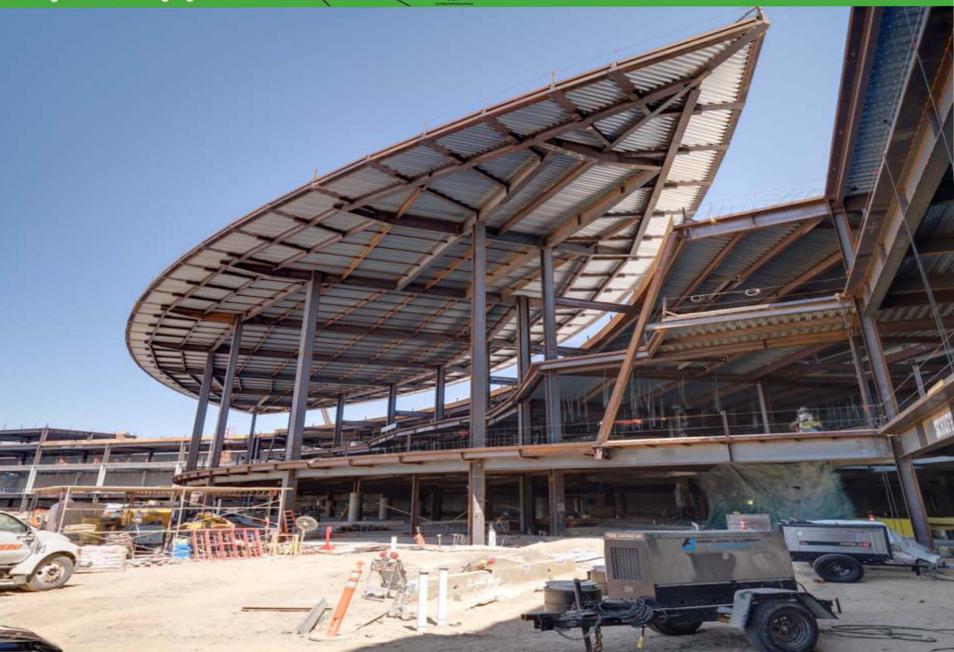


San Diego International Airport

The Green Build Moving Forward. Soaring Higher.



Sunset Cove Roof















Future Program Challenges



Audit Readiness

ARRA (BHS), FAA (Apron) & PFCs (Eligible Terminal Areas)





Future Program Challenges

Contractor interactions/conflicts during the 2013 roll-out of the new concession venues:

- Retaining key staff Turner/PCL/Flatiron,
 Kiewit/Sundt and AECOM
- Income generating use of the Sunset Cove mezzanine space, e.g. airline clubs



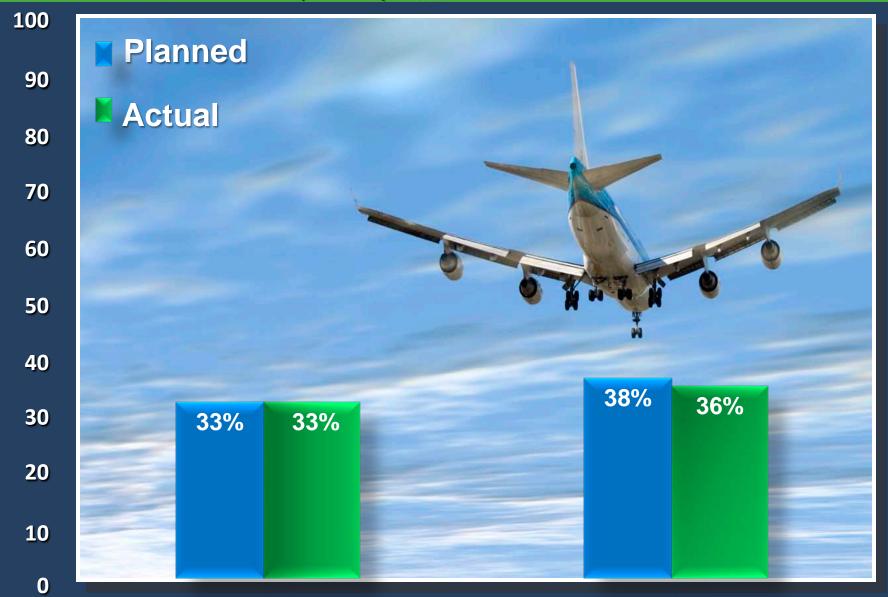


Future Program Challenges

Budget performance against all four GMPs:

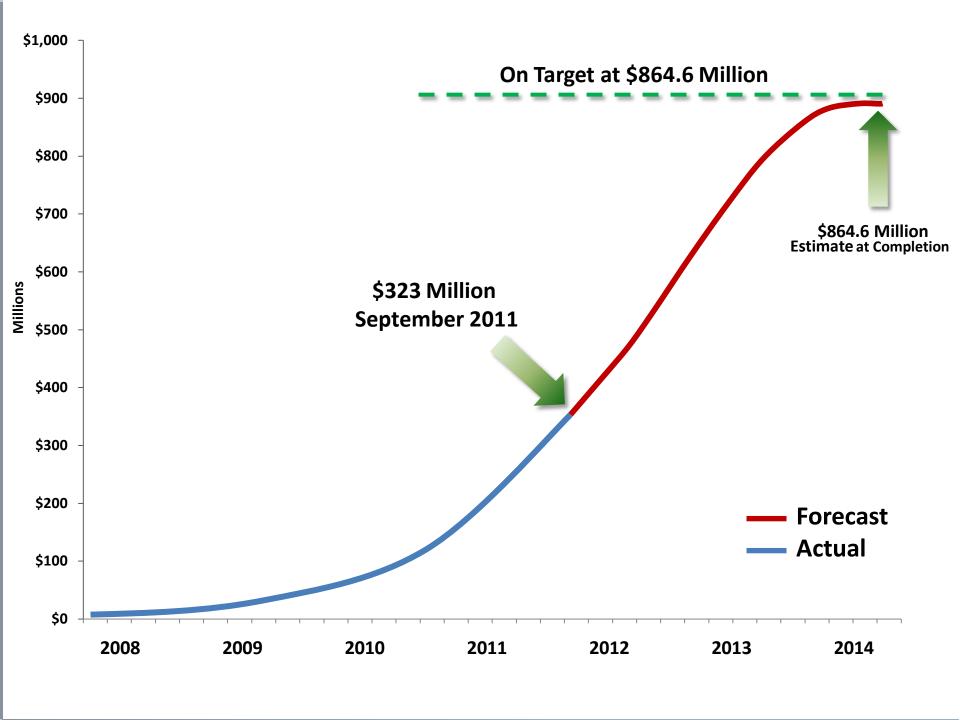
- Schedule performance against all four GMPs, especially the phased T2W schedule
- Budget/schedule indicators to monitor
 - Contractor billings vs. Cost Curve
 - Utilization of reserve funds
 - Scope Growth

Construction At-a-Glance



C1 - Airside/Terminal

C2 - Landside











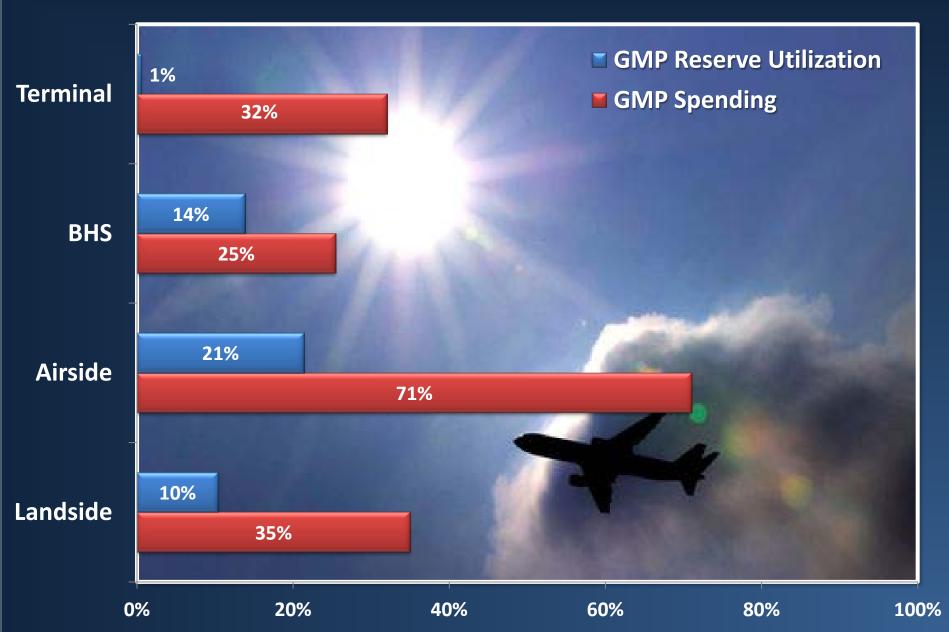
Each GMP Includes:

Previously executed Task & Work Authorizations
Previously bid, but not yet contracted work
GMP Reserve Funds

- Negotiated values set aside for anticipated scope
- Negotiated values reserved for unforeseen work scope
- Allowances for Owner scope such as furniture, fixtures, equipment and finishes



GMP Reserve Utilization





San Diego International Airport

The Green Build Moving Forward. Soaring Higher.



