



US Army Corps
of Engineers®



Kickoff Meeting

Edwards AFB F-35 Ramp and Main Runway, Phase 4

August 4th, 2009

Project No. FSPM063507, FSPM063507A
and FSPM063509D



DESIGN/BUILD
PARTNERS



CH2MHILL

Challenges





Economies of Scale

- How to Provide Same Level of Service as Expected on Larger Scale Projects
 - Eliminate the inherent expenses of a true joint venture
 - Maintain the benefits derived from a true joint venture



Economies of Scale

- Unique arrangement between designer and contractor
 - Cross populated design entity and contracting entity
 - Same players diminish learning curves
 - Proximity of players' corporate offices
 - Ftp site for information sharing



Economies of Scale

- Knowledge/Intellectual Equity Acquired in Previous Phase
 - Do not repeat the lessons; just apply the knowledge
 - Build on value gained



100% Complete Runway

- Finding the Resources
 - Reconstruct keel section
 - Best real economic opportunity for the government

Goals





Continuous Improvement

- Communication
 - Ftp site
 - QCS
 - Weekly progress meetings
 - Efficient
 - Informative
 - Continue the use of PowerPoint as in the past



Continuous Improvement

- Updated Weekly
 - Update QCS from SureTrak
 - Simple 2 week “Look Ahead” bar graphs
 - Deliverable matrix



Continuous Improvement

- Quality Control
 - Core-level reps participate in partnering
 - Further core-level QC program

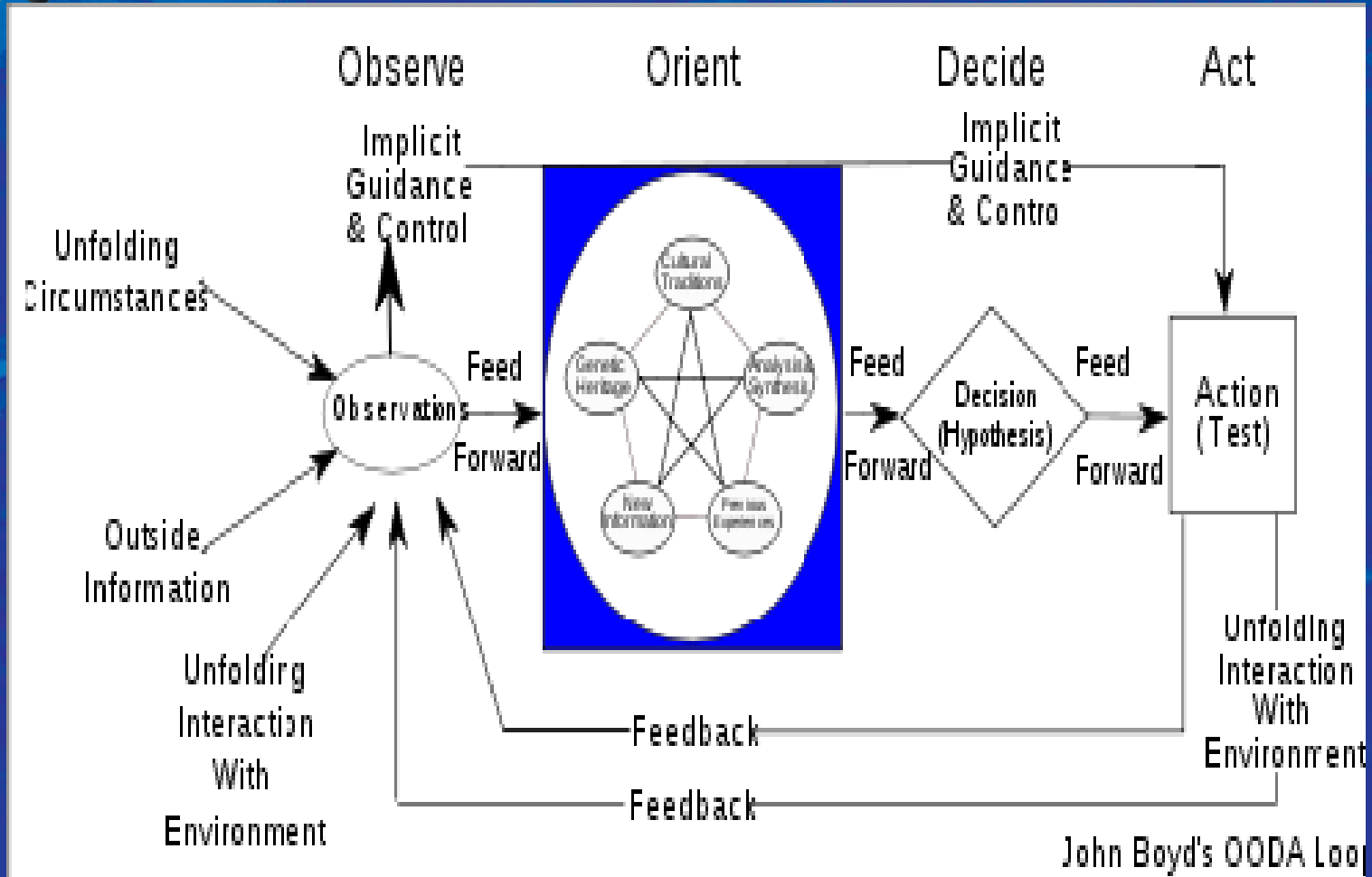


Real Time Quality Control "at The Core Level"

- Planning (Pre-Work Meetings and Job Descriptions)
- Doing – Executing the Work
- Checking - Inspection and Testing, Record and Report
- Acting - Remedial Action (Adjust, Correct, Repair)
- Performed by Craft Workers
- Increased Testing and Inspection Frequencies



OODA Loop (John Boyd)





Craft Worker Job Description

- Part of Core Level Training and Pre-Work Activities

Interstate Highway Construction, Inc.	Prepared by: Southwest Division	Effective Date: May 05, 2009	Page: 1 of 6
	Reviewed by: RJH / MLH / JKS	Version: 1.01	
Wet Batch Plant Operator			

- Subjects Addressed

- Safety / Environmental
- Quality
- Production
- Equipment
- Reporting

Description: Responsible for site equipment operation and maintenance of the plant. Will work cooperatively with the placement operations in the production of high quality concrete at the times and volumes required by the placement crew/s. The plant operator is also responsible for the training and performance of all assigned subordinates. As needed perform or train in basic duties and field duties. These duties may be in the project's administrative facility or in the field as directed by immediate supervisor.

Reports to: Equipment foreman or designee.

Subordinates: Loader Operator/s charging plant & plant helper/s and if directed by supervisor the wash rack laborer. It is imperative to thoroughly know the job descriptions of these associates to ensure the

Works in Conjunction with: Receives direction from PCC placement foreman or designee (superintendent / OC representative / or other as may be determined)

Mandatory Training Requirements: It is understood that this position necessitates extensive training

Real Time Inspection




Measurements made and reported, "in real time" for corrective adjustments.

Real Time Testing



Dedicated Technicians = Increased Frequencies



Task Force – “Core Level Partnering”

- Ken Crawford, Martin Holt, Ken Schaeffer
- Goal – Craft Worker Participation in Partnering.
 - Share in developing project objectives
 - Take ownership in project success
 - Carry the word to the Core Level
 - Continuous improvement of the QC Program
- New / Innovative Techniques of Core Level QC
- Document for Presentation Purposes.



Continuous Improvement

- Safety
 - Repeatability
 - Provide more task-based safety reminders
 - Improve accountability at the core level



Continuous Improvement

- Environmental
 - Orientation includes project-specific training
 - Weekly ‘tool box’ talks include continuous training and follow up



Project Delivery Template

- Use for Future Projects of Similar Scope
 - Why Not
- Utilize Benefits of D/B on Smaller Projects
 - Schedule improvement
 - Cost effective
 - Higher quality



Stakeholder Expectations

- Identify
- Have They Been Addressed?
- Add to Project Goals

The Project



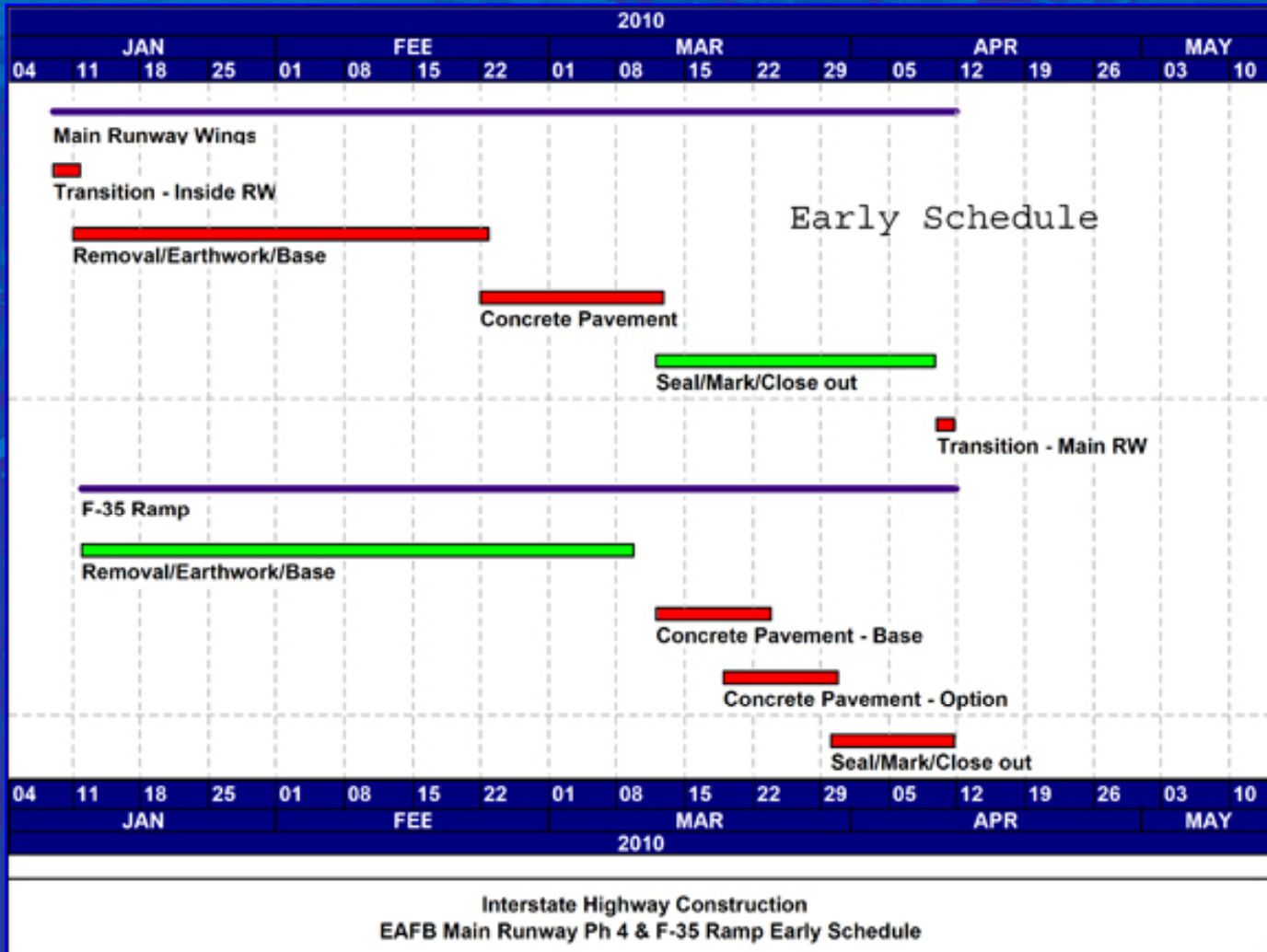


Overview

- Schedule(s)
 - Design – remove from critical path
 - Construction
 - Options funded
 - Options not funded
- On-Site Office Locations
- Project Site Ingress/Egress

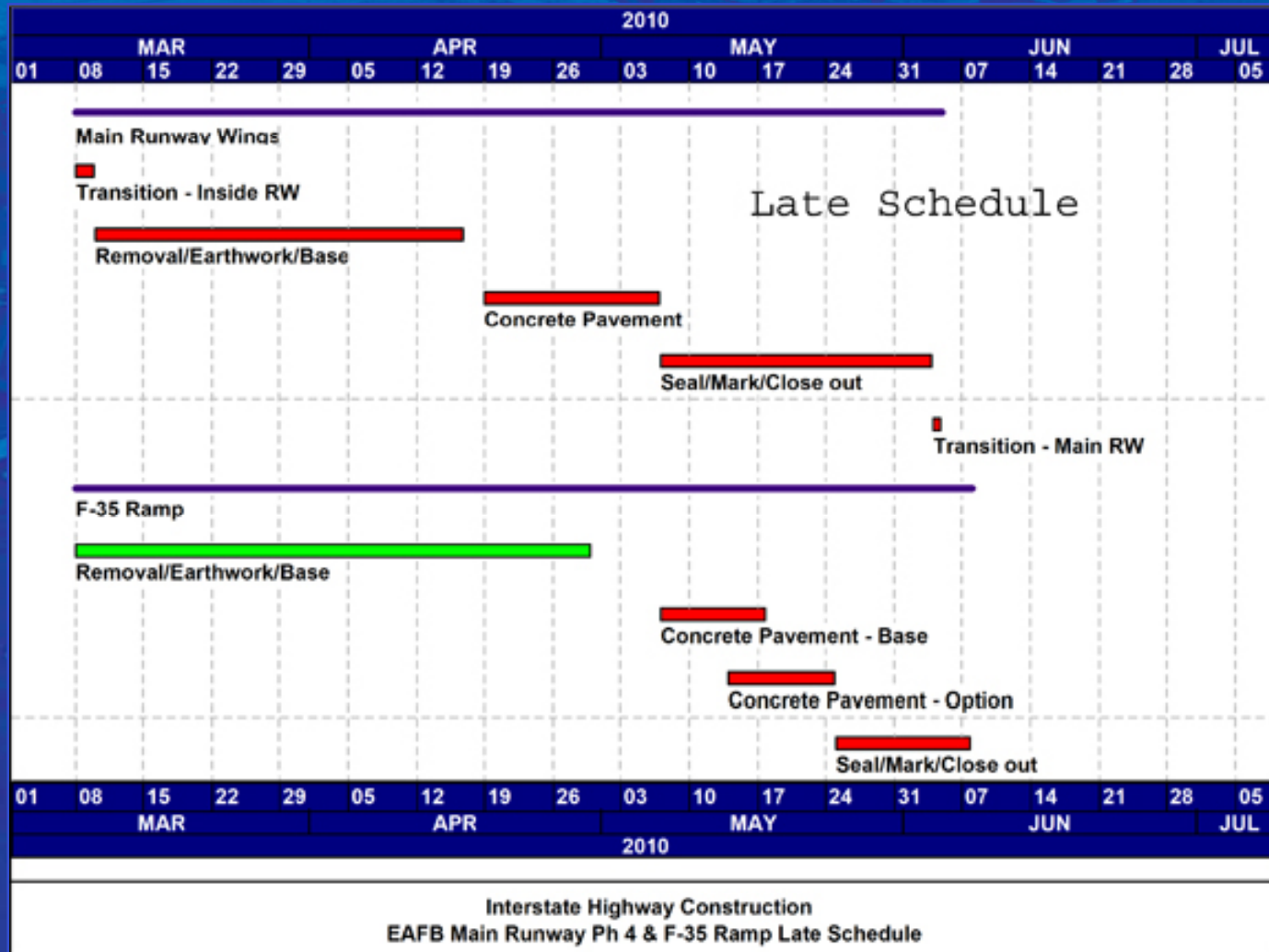


Early Schedule

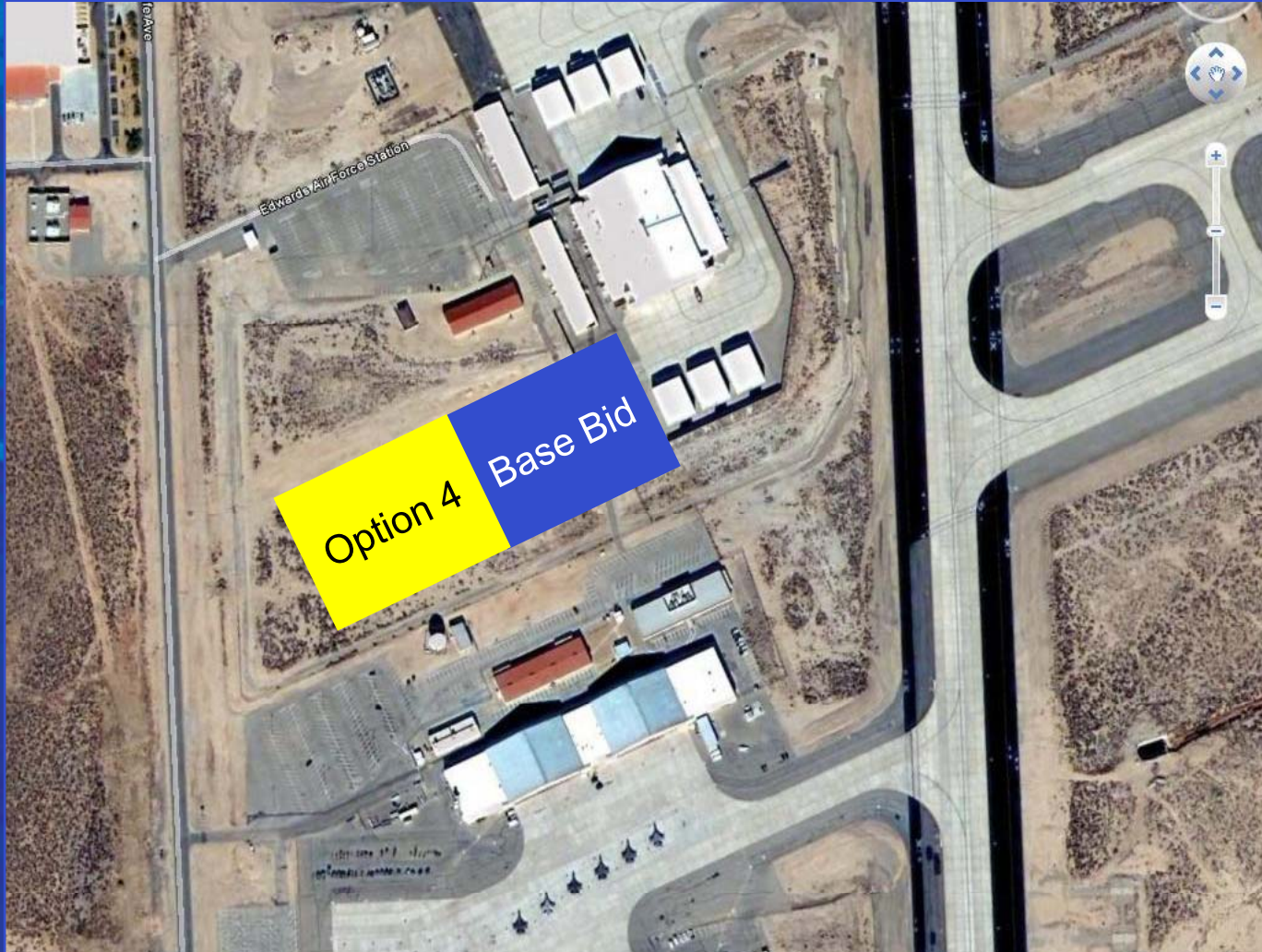




Late Schedule



Scope – F-35 Ramp

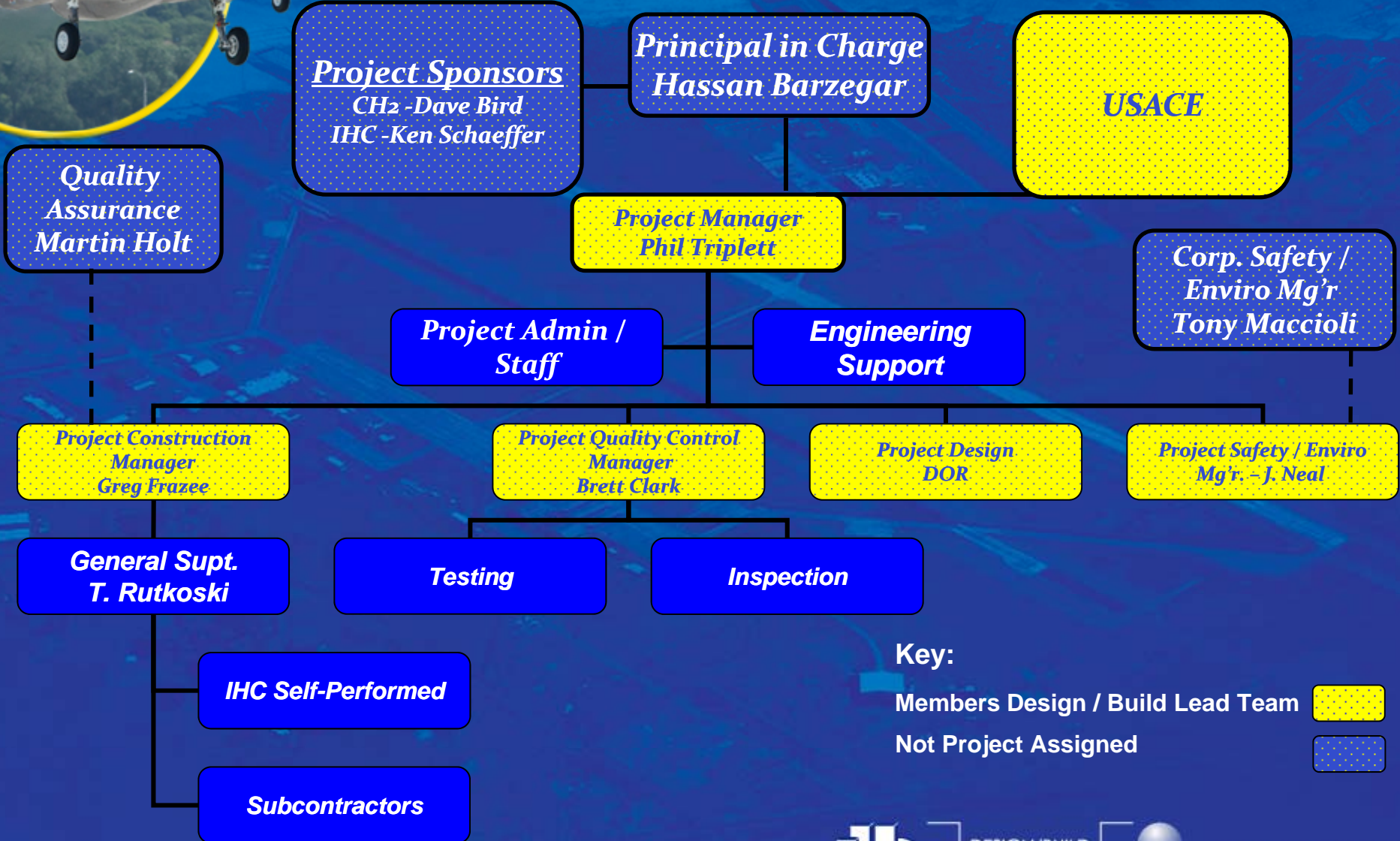


Scope – 22 Wings



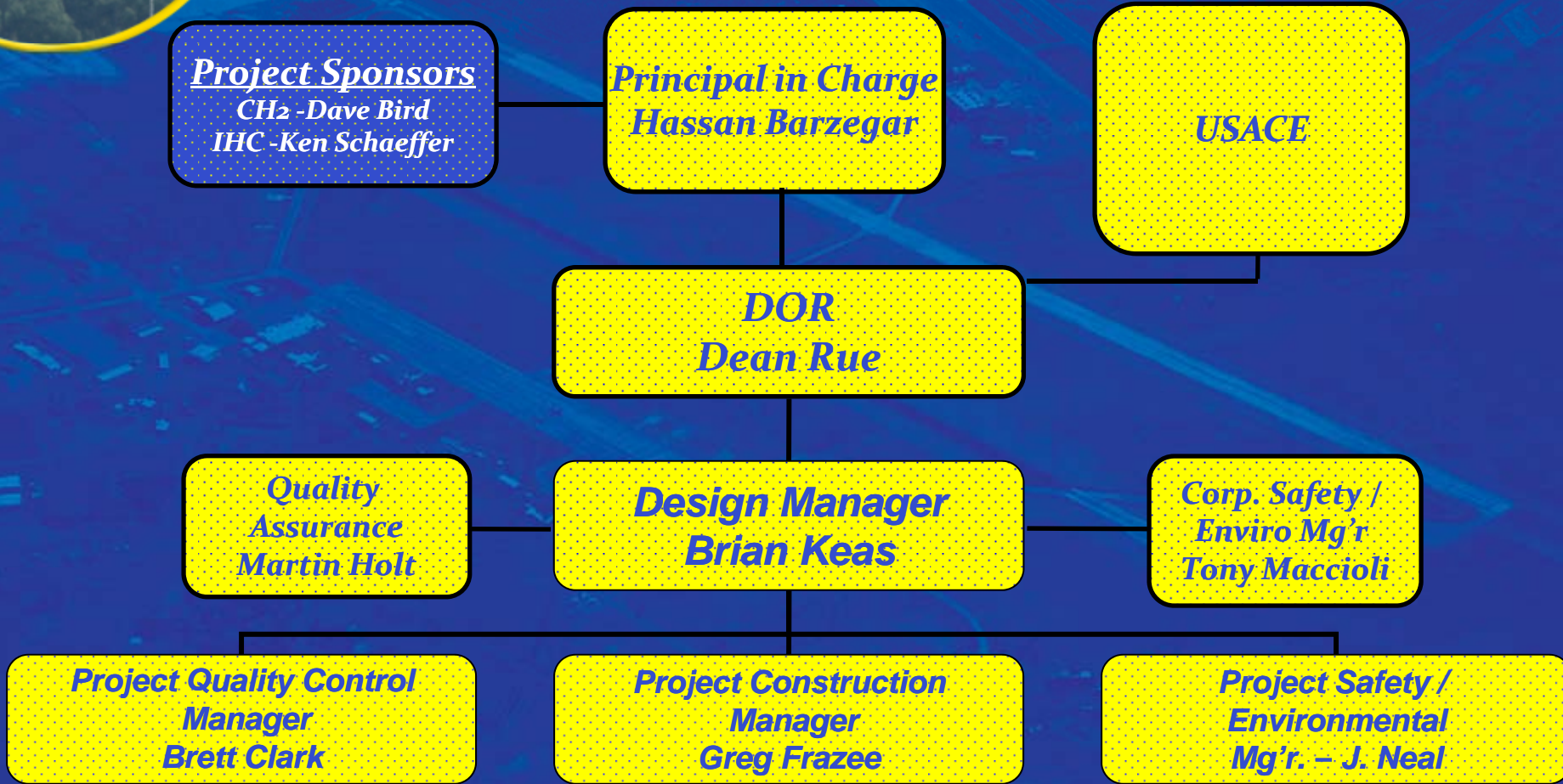


IHC/CH2M HILL Build Organization





IHC/CH2M HILL Design Organization





Team Introductions

- Team Introductions
- Partners: IHC and CH2M HILL
- Subcontractors and Professional Services
- Vendors



Subcontractors

- Betance Enterprises dba All Cities Fence and Construction
- Blast Deflectors, Inc.
- DACO Construction, Co., Inc.
- Granite Construction Co.
- Hi-Lite Markings, Inc.
- Multiple Concrete Enterprises Inc.
- QC Consultants Inc.



Vendors

- A & M Gentry Trucking
- BASF
- CalPortland
- DC Supply
- Double Eagle Transportation
- Holliday Rock Co., Inc.
- Salt River Materials Group



“Rocks in the Road”





F-35 Ramps

- Access
- Utilities
- Soil Management
- Hazardous Waste
- Funding



22 Wings

- Soil Management
- Pavement Design of NE Pass 37.5 ft
- Transitions
 - Runway Transition Teams



Overall

- Quick Approvals and Acceptance on Submittals That Are Exact Replicas From Last Project
- Access to Project – West vs. North Gate



Next/Questions/Wrap Up





Partnering

- Preconstruction Partnering and Kickoff Meeting/PCCP Workshop in January in Denver
- HMA Workshop at Edwards AFB
- Ftp Sign-Ups
- Other Business and Questions