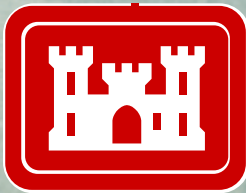


U.S. Army Corps of Engineers Tulsa District

FY 16 Meet-The-Corps Day

Mike Nance
Civil Engineer,
Tulsa Resident Office

10 February 2016



® US Army Corps of Engineers
BUILDING STRONG



Tulsa Resident Office “Top 5”

1. Green Zone

- A meeting with the Corps of Engineers to review requirements that must be met prior to initiating site work.



BUILDING STRONG®

Tulsa Resident Office “Top 5”

2. Resident Management System (RMS)/ Quality Control System (QCS)

- COE systems for administering contracts; includes but not limited to:
 - Submittals
 - Daily quality assurance logs
 - Requests for information
 - Schedule
 - Correspondence
 - Progress Payments



Tulsa Resident Office “Top 5”

3. Accident Prevention Plan

- EM 385-1-1 Appendix A



BUILDING STRONG®

Tulsa Resident Office “Top 5”

4. Submittals



BUILDING STRONG®

Tulsa Resident Office “Top 5”

5. Schedule



BUILDING STRONG®

Tulsa Resident Office “Top 5”

Questions?



BUILDING STRONG®

Meet The Corps 2016

10 February 2016

Top 5 Tips For Performing Work on Tinker AFB

Charles W. Thurmon, P.E.
Resident Engineer
Tinker Resident Office



®

US Army Corps of Engineers
BUILDING STRONG®



Tinker AFB



BUILDING STRONG®

Top 5 Tips

- Security
- Schedule
- Working Environment
- Quality
- Proactive



BUILDING STRONG®

Security

- Background checks for all personnel
 - ▶ Passes versus badges
 - ▶ Contractor badging process
- Delivery inspections
 - ▶ All deliveries enter through the truck gate.
 - ▶ Delivery driver must pass background check
- Supplemental passes
 - ▶ Ramp access
 - ▶ Building access
 - ▶ Escorts



Schedule

- Scrutinized by both USACE and the users
 - ▶ Contractor needs to understand their schedule and work to stay on schedule
- Production schedules on Tinker AFB trump the contractor's schedule.



BUILDING STRONG®

Working Environment

- Buildings may have multiple tenants
- Multiple chains of command
- Unions
- Coordination with M&O contractor(TSS)



BUILDING STRONG®

Working Environment

- High production facilities-little to no downtime allowed
- Buildings are fully occupied
- Staging and laydown areas difficult to obtain



BUILDING STRONG®

Quality

- Industry standards plus
 - ▶ Unified Facility Criteria(UFC)
 - ▶ Air Force Engineering Technical Letters(ETL)
 - ▶ Tinker Specification and Construction Standards



BUILDING STRONG®

Proactive

- Ownership involvement
- Maintain control of your subcontractors
- Utilize subcontractors familiar with working on Tinker AFB
- Seek mentoring contractors for assistance
- Talk to USACE
- Safety



BUILDING STRONG®

Questions!



BUILDING STRONG®

U.S. Army Corps of Engineers Tulsa District

Meet the Corps Day

10 February 2016

Rick West, P.E.
Area Engineer
Fort Sill Area Office



US Army Corps of Engineers
BUILDING STRONG



Fort Sill Area “Top 5”

1. Understand Installation/Stakeholder Requirements

- Installation Design Guide (IDG)
- Consultation – Section 106 (16 U.S.C. 470f) National Historic Preservation Act (NHPA)
 - State Historic Preservation Office (SHPO)
 - ❖ 60-90 days
 - ***Tribal Consultation – 3 Phases***
 - ❖ ***150 – 180 days***



Fort Sill Area “Top 5”

2. Be Responsive to Established Needs

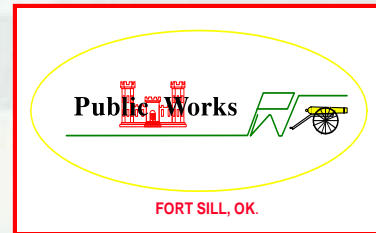
- Resource Availability
 - Established Subcontractor Pool / Teaming Agreements
 - Early identification/involvement of Quality Control System Manager (CQSM) & supplemental staff
- Cost Proposals
 - Submitted Timely
 - Sufficiently Detailed – labor, equipment (owned/rented) & supervision + a fragnet to support any perceived time impact
- Meet Established Commitments
 - Schedule Management w/ 2-week look aheads



Fort Sill Area “Top 5”

3. Contract Closeout Requirements

- O & M Manuals
 - Technical Submittals
 - Data Packages (Division 01 78 xx)
- Operational Training
- As-builts
- Warranty Plan
- ***DPW Priority #1***



Fort Sill Area “Top 5”

4. Re-establishment of Turf

➤ OK DEQ General Permit OKR10

- Notice of Intent (NOI)
- Pollution Prevention Plan (SWP3)
 - ❖ Best Mgt Practices
 - ❖ Record Keeping / Retention
- Final Stabilization - requires uniform (e.g., evenly distributed, w/o large bare areas) perennial vegetative cover with a ***density of 70% of the native background cover***
 - ❖ Take Photos **BEFORE** & AFTER
 - ❖ Considerations - Seed/Sod/Hydro-mulch/Water
- Notice of Termination (NOT)



Fort Sill Area “Top 5”

5. Early Problem Identification

- HVAC System Commissioning (Cx) Challenges
 - ***Problems identified too late to prevent adverse schedule impact.*** Potential contributors include:
 - ❖ Untimely selection/submittal of major equipment items
 - ❖ Major equipment components often procured from multiple manufacturers/vendors (e.g. not “Plug & Play”)
 - ❖ Absence of defined control modes over the full range of system operation (dead zones)
 - ❖ Operational sequences/integration points on equipment with packaged controls not fully defined/detailed
 - Integration of Dedicated Outside Air Units (DOAU’s) w/bldg DDC controls is especially problematic



Fort Sill Area “Top 5”

5. Early Problem Identification (Cont'd)

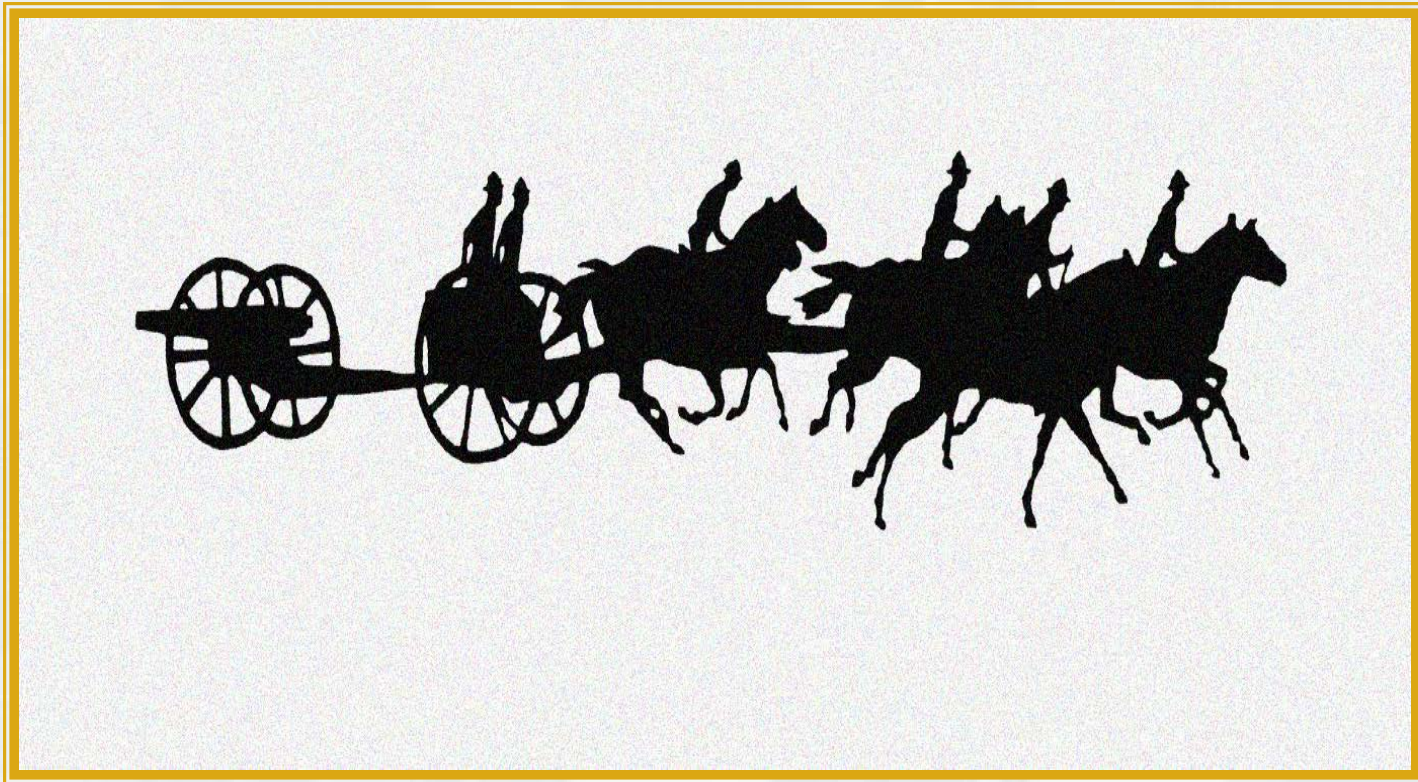
- Potential Mitigation Measures
 - Require earlier selection/submittal of all major equipment
 - Require sequence of operation “dry run” w/key stakeholders
 - Require overlay of psychrometric chart w/planned operational control modes and trigger points for design degree days to check for possible “dead” zones
 - Require a “Mechanical System Integrator”
- Your Thoughts?

Be Part of the Solution!



BUILDING STRONG®

Essayons!



BUILDING STRONG®