



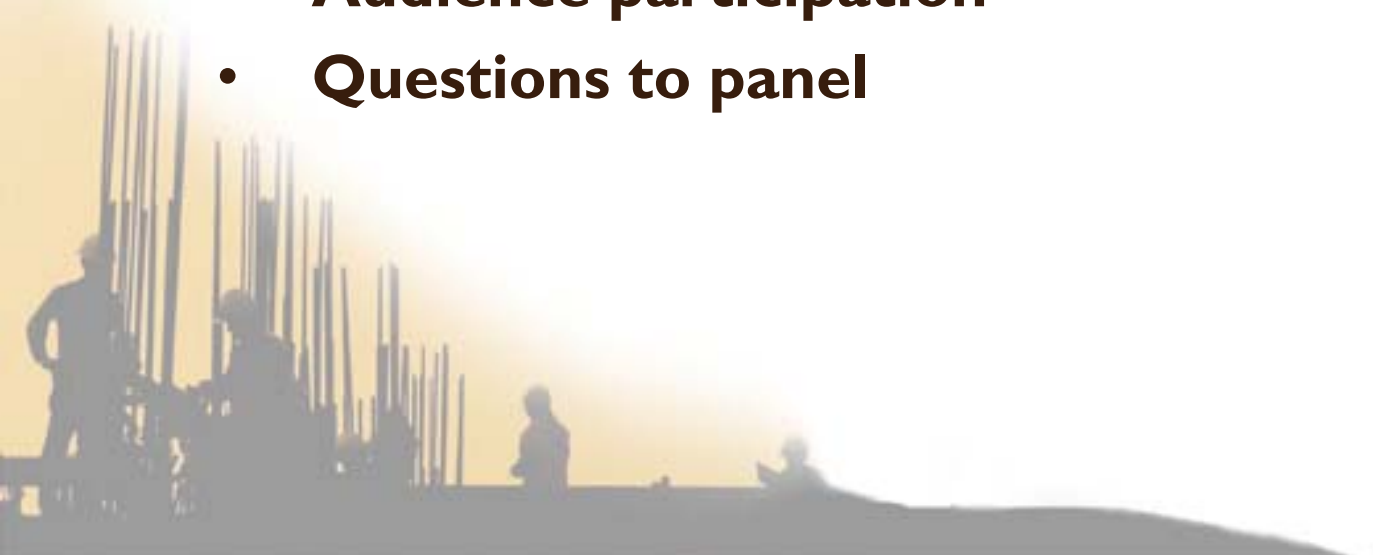
Building Work Packages





Session Format

- **Introduction**
- **Overview of the COAA approach to building Work Packages**
- **The Graham approach to building work packages**
- **The JV Driver approach to building work packages**
- **The Ledcor approach to building work packages**
- **Audience participation**
- **Questions to panel**



What is in an FIWP?



The COAA Approach to Building Work Packages

Field Installation Work Packages (FIWP)

Page 1	3D Coversheet	Attachments
Page 2	Coversheet	Technical Documentation
Page 3	Contents	○ ISO List
Page 4	Work Scope	○ Spool List
Page 5	EH&S Introduction	○ Drawings
Page 6	EH&S site info	Material Forecast
Page 7	QA / QC Requirements	Score Cards
Page 8	Tools and Consumables	○ Spool Score Card
Page 9	Check List	○ Weld Score Card
Page 10	Scaffold Request	3D Model Shots
		Other
		○ Lessons Learned
		○ Notes



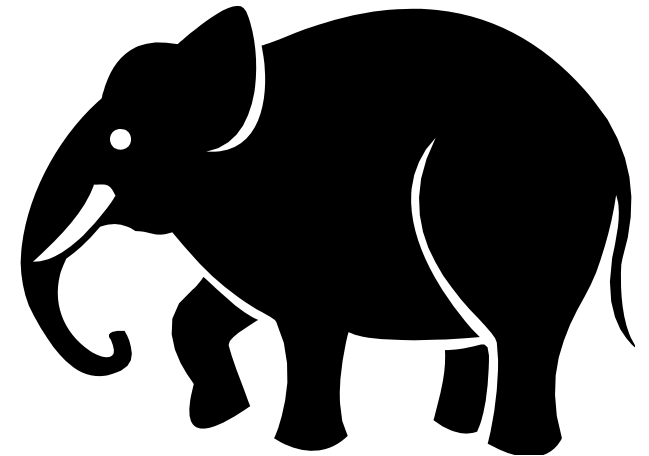
The COAA Approach to Building Work Packages

- **Who develops the FIWP?**
- **FIWPs are developed by dedicated planners (crafts people or engineering types with construction experience).**
- **Note: In some cases General Foremen or superintendents may develop the FIWP**



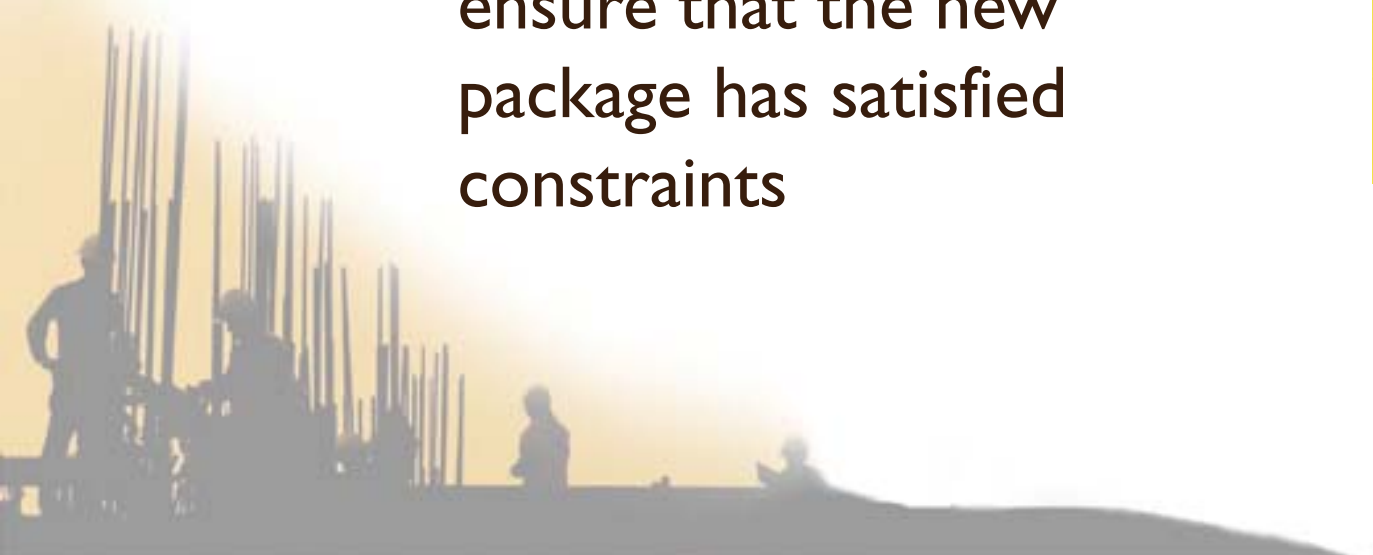
The COAA Approach to Building Work Packages

- **How big is an FIWP?**
 - Normally 500 to 1000 hours (but varies based on discipline and work being done)



The COAA Approach to Building Work Packages

- **Can you use an FIWP that doesn't have satisfied constraints?**
 - Not normally, but you can modify the package to ensure that the new package has satisfied constraints



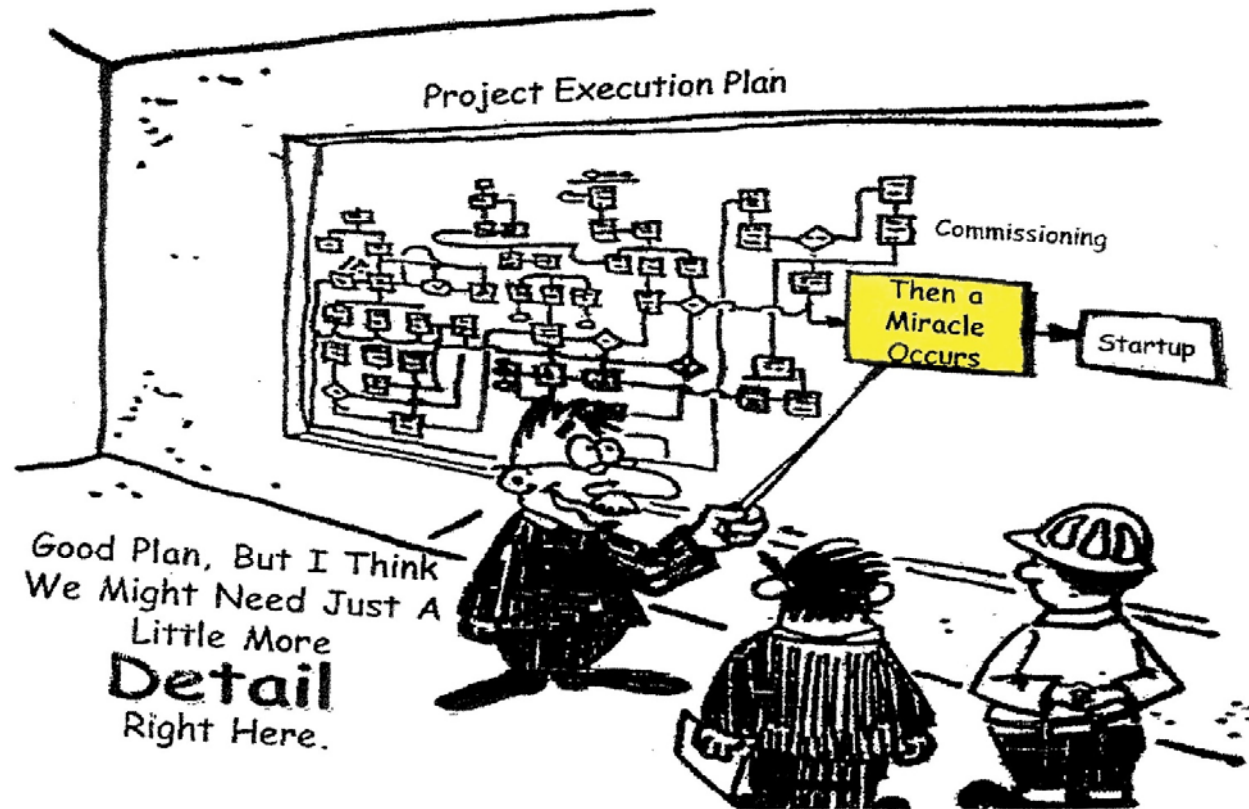
The COAA Approach to Building Work Packages

- **What are FIWP built from?**
 - Typically FIWPs are developed from Construction Work Packages but we are seeing FIWP developed directly from Engineering Work packages



The Graham Approach to Building Work Packages

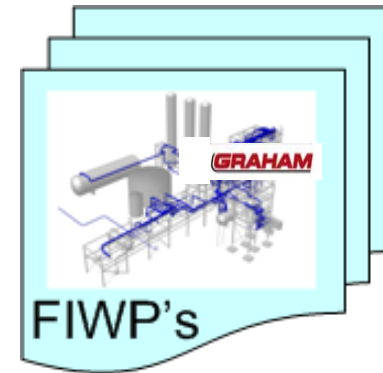
Traditional execution:



The Graham Approach to Building Work Packages



- **Information**
- **Materials**
- **Tools**
- **Equipment**
- **Resources**
- **Access to the Workface**



Scope
Drawings
Planned Value
Schedule Dates
Material Confirmation
Construction Equipment
Scaffold Requirements
Safety
Quality Control
Labour
Permit
Requirements



The Graham Approach to Building Work Packages

Workface Planning Applied to Earthmoving



The Graham Approach to Building Work Packages

Workface Planning Applied to Earthmoving

- **Standard set of FIWPs**
- **FIWPs applied to a Lift (not to a foreman)**
- **Foremen build daily plans to satisfy the FIWP**
- **Foremen report barriers daily**



The Graham Approach to Building Work Packages

Beyond the COAA Model:

- WorkFace Planners develop execution plans with their superintendents for each EWP
- EP guides development of FIWPs
- Standard earthmoving FIWPs (procedures)
- Earthmoving FIWPs assigned to the task not the crew.
- Foremen create daily plans
- Barriers are logged and managed daily
- Subcontract FIWPs: built by our planners with guidance from their supervision

The JV Driver Approach to Building Work Packages

Wedding Scenario:



The JV Driver Approach to Building Work Packages



The JV Driver Approach to Building Work Packages

➔ FIWP Stakeholders

- ✓ Planners are in the Field
- ✓ Extract components to build the FIWP
 - HS&E
 - Quality
 - Project Controls
 - Schedule
 - Material Management
 - Document Control



APPROVED

The JV Driver Approach to Building Work Packages

➔ FIWP Stakeholders

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- **TCCC** (Turnover, Care, Custody and Control)



COOAA
Construction Owners
Association of Alberta

The JV Driver Approach to Returned Certified Complete Building Work Packages

- Red Line Drawings
- As Built Drawings
- Construction Punch List
- Signed and Completed ITPs
- Confirmation of Construction Completion
- Precommissioning



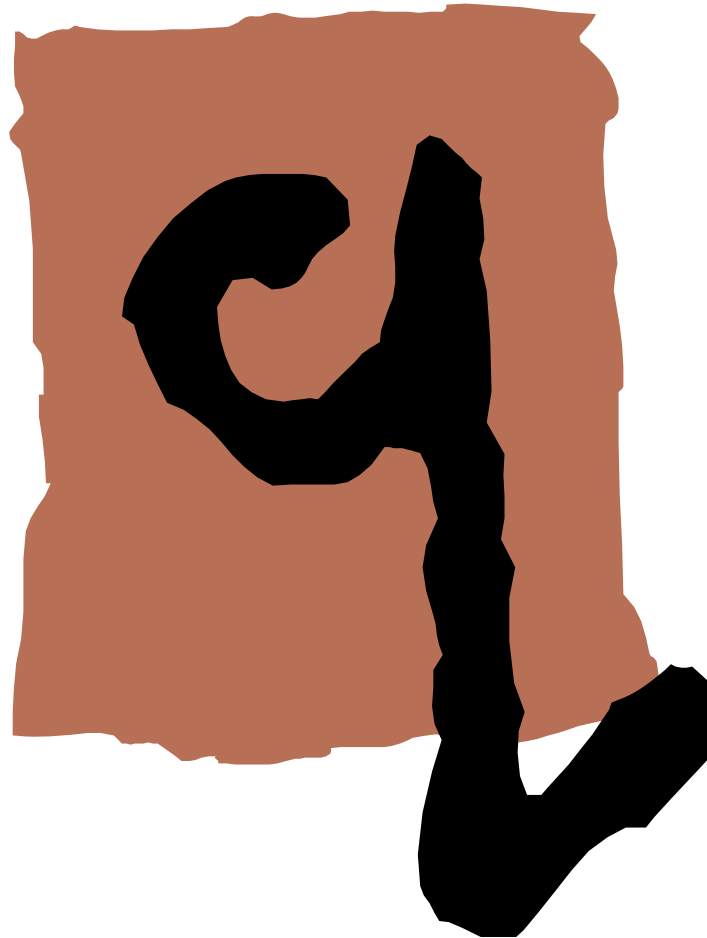


The Ledcor Approach to Building Work Packages

Building Foreman's Workface Packages



Question-and-Answer Period



AUDIENCE FEEDBACK

NOTE: The information collected is anonymous and may be used for research purposes. By participating, you are giving your consent for the use of this data.





Closing Comments

- Thanks for attending this session and providing us with your feedback
- If you have any further questions for any of the speakers please ask us after the session

