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- 20 years of Construction
 Management/Scheduling Experience on
 Highway, Heavy Construction, Wastewater
 Treatment Plants, Hotels, Casinos,
 Hospitals, and Government Facilities
- Work with Owners, Designers and Contractors to develop and defend against claims
- Board Member of ASCE Claim Avoidance and Resolution Committee

Construction Claims

"A construction problem becomes a claim when someone asks for money."



Before Problems Arise

- Know the Contract
 - The Contract states how the Owner expects the Project will be executed and the desired results.
 - The Contract should dictate each stakeholder's responsibilities.
 - The Contract states how the Contractor will be compensated.



Contract Document Pitfalls

- Ambiguities
- Conflicting Information
- Omissions



Interpretation of Contract Documents

- Order of precedence as defined in contract
 - Detailed Specifications over Drawings
 - Drawings over Standard Specifications
- In general more detailed will apply
 - Details over Standard Drawings
 - Calculated Dimensions over Scaled Dimensions
- Many courts look to equitable considerations rather than technicalities of the contract language

Contract Schedule Specification

- What are the Project Milestones
 - Liquidated Damages
 - Early Completion
- Schedule Requirements
 - Schedule Program
 - Level of Detail
 - Types of Relationships
- Who owns Project float?
- No Damages for Delay clause
- Recovery schedule requirements
- How to request time extension



Baseline Schedule

- This is the Contractor's plan to construct the Project based on the bid documents
 - Realistic logic and durations to meet all Milestones
 - Anticipate reasonable weather impacts
 - Include Non-work periods for seasonal work
 - Long Lead Items
 - Buy-in from subcontractors



Baseline Schedule (Cont.)

- Baseline Schedule Critical Path
 - Review near critical paths
- What if the Baseline is not approved?



Schedule Updates

- Status the Project periodically
- Revise logic and durations to reflect changes in the field and Contractor's plan
- Update submittals and utility information
- Track RFIs and Potential Change Items
- Submit schedules to Owner for approval



When Problems Arise

- Notice
 - Follow Contract requirements
 - Miss a notification deadline; a claim can be denied
- Document the Issue
- Add an activity for the Issue into the schedule with appropriate durations and logic and assess how it impacts the schedule.

Construction Claims

- Changes in Scope (Disputed Changes)
- Delay
- Disruption



Changes in Scope

- Directed Changes
- Constructive Changes



Delay v. Disruption

- Delay Disputes over time of performance
- Disruption Disputes over labor productivity



Categories of Schedule Delay

- Excusable Delay Delay that excuses late performance.
 - Compensable –Contractor reimbursed for time-related costs.
 - Non-compensable —Contractor is precluded from reimbursement for timerelated costs.
- Non-Excusable Delay Delay within the control of the Contractor.

Concurrent Delay

- Two or more delays occurring in the same time frame on separate critical paths with both affecting the overall completion of the project.
- If one of the delays is due to the Owner a concurrent delay is excusable
- Concurrent delays prevent either party from recovering damages.



Other Delay

- Force Majeure
 - ◆ Acts of God (Hurricane, Labor Strike, Etc.)
 - ◆ Excusable
 - Not Compensable

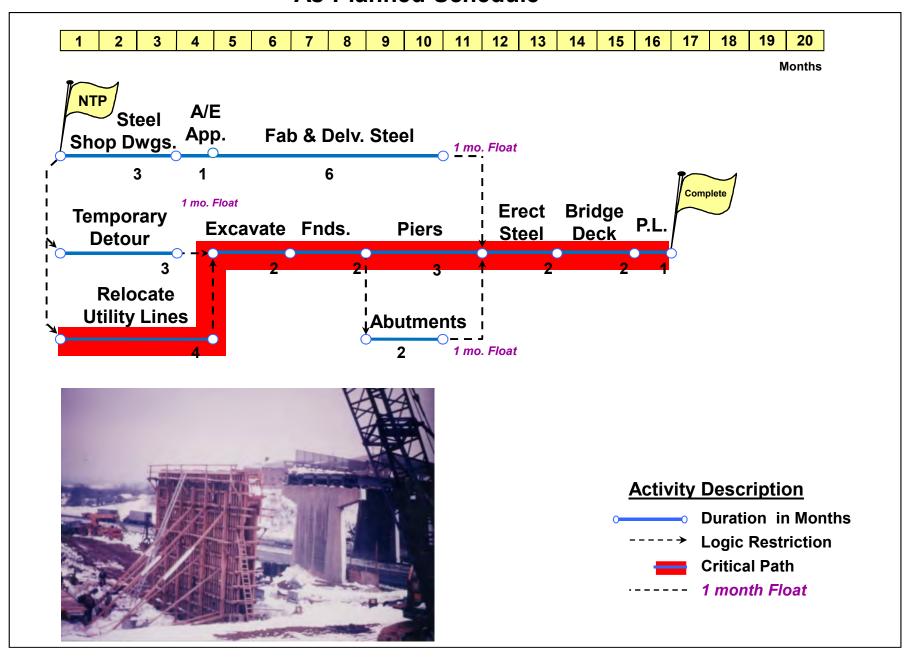


Project Example

- Project: Construction of multi-span highway bridge
- Value: \$25 Million
- Contract Duration: 16 months
- Liquidated Damages: \$10,000 per day



As-Planned Schedule

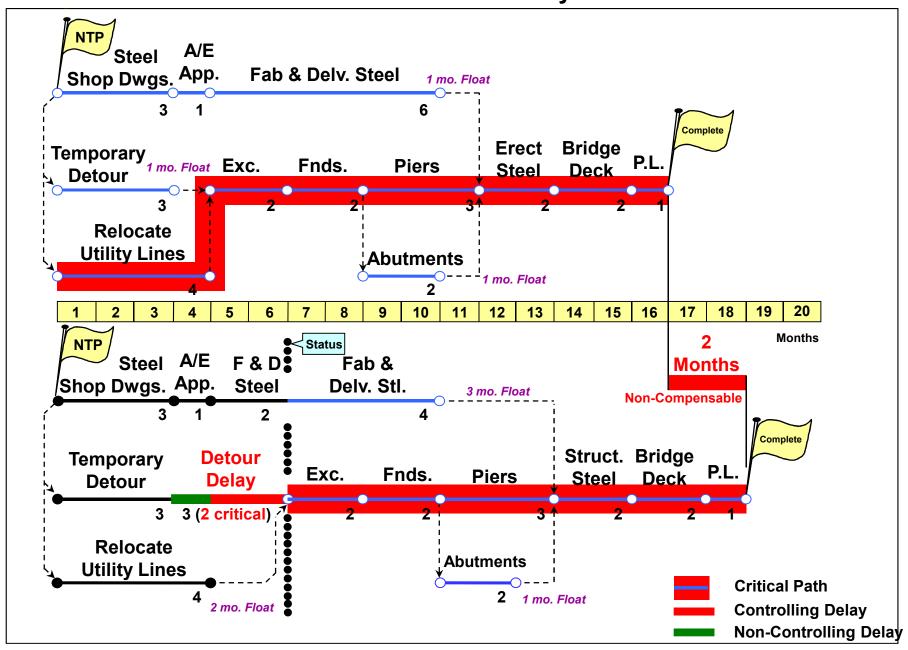


Assessing Delay

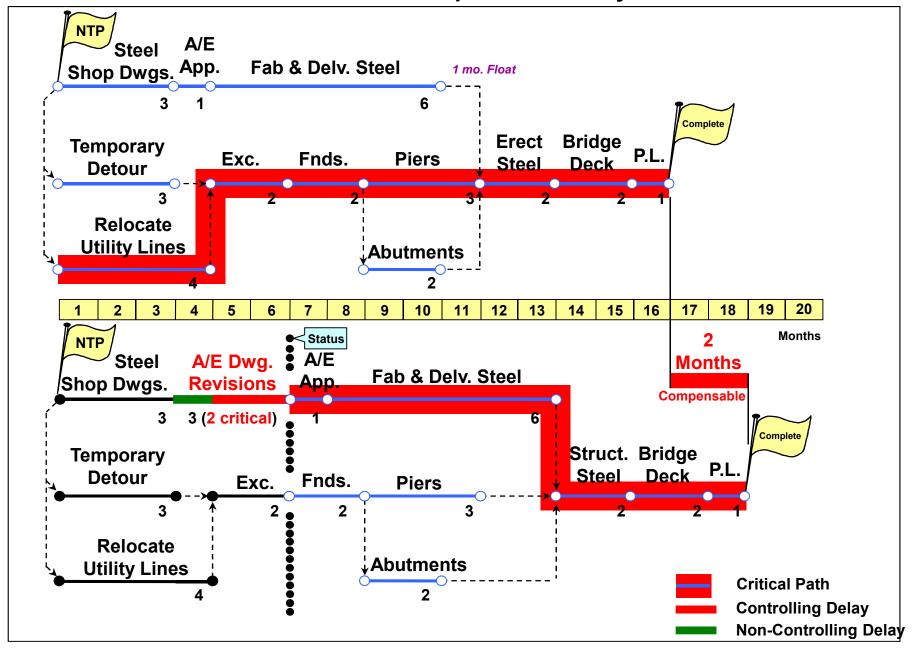
- Establish as-planned schedule
- Reflect planning changes and as-built history
- Evaluate delays against a schedule reflecting status of the project at the time the delay occurred
- Analysis must be thoroughly grounded in the project records
- Loss of Float vs. Critical Path Delay



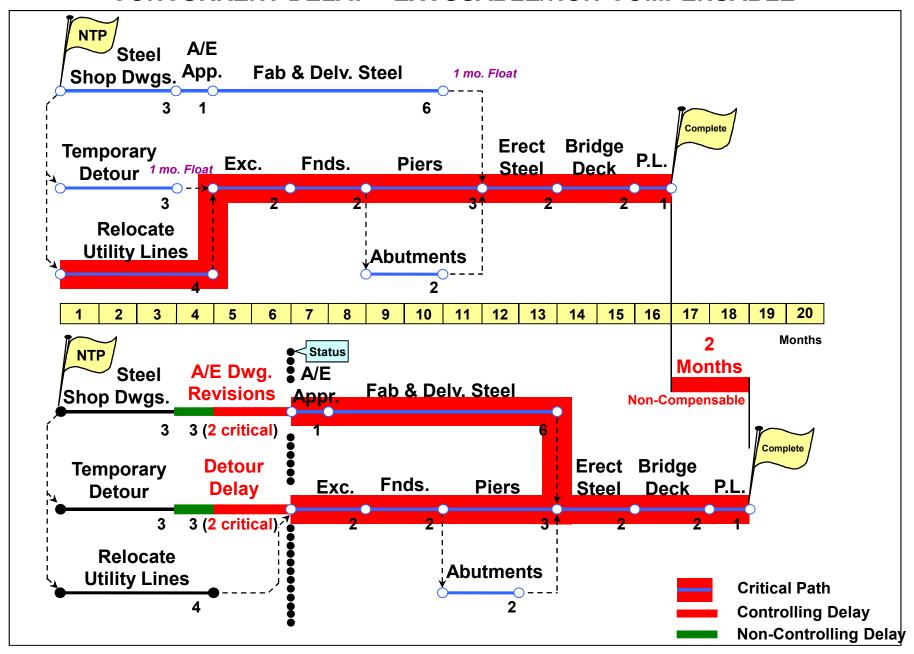
Non-Excusable Delay



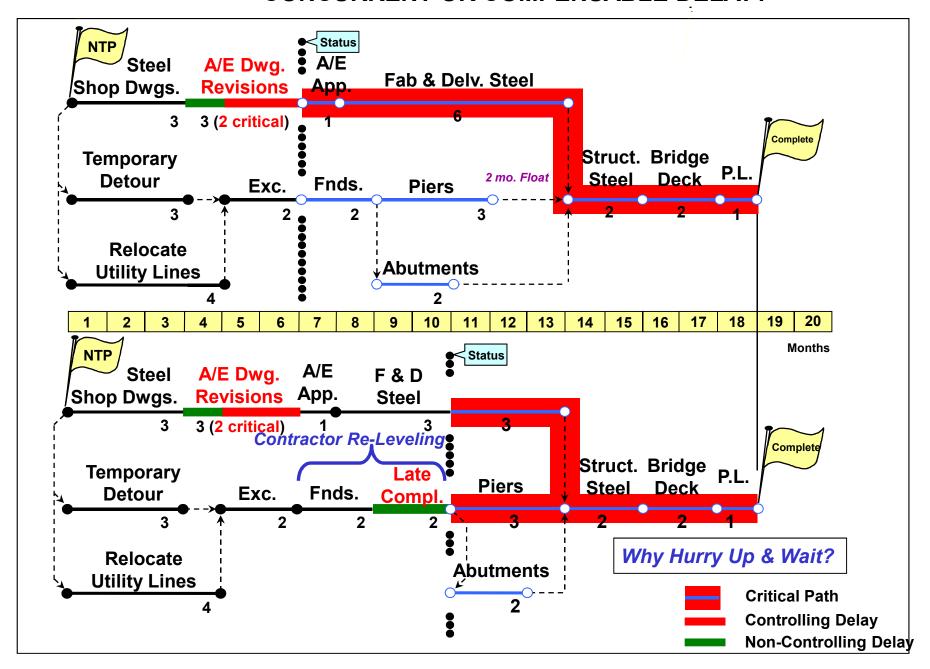
Excusable Compensable Delay



CONCURRENT DELAY - EXCUSABLE/NON-COMPENSABLE



CONCURRENT OR COMPENSABLE DELAY?



Acceleration

- Expediting progress of the work
 - Directed Acceleration Owner directs contractor to accelerate work.
 - Constructive Acceleration Contractor's response to an action by the Owner that can be construed as a demand to overcome the effect of previous excusable delays.
- Contractor must provide notification
- Owner will pay for premium time and inefficiencies

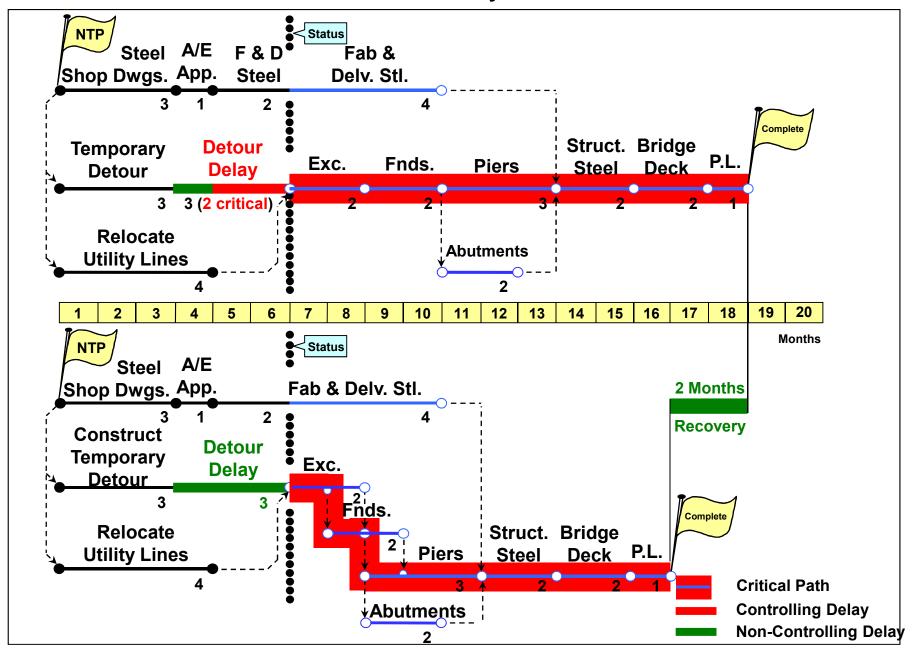


Recovery Schedules

- Contract may have triggers for Contractor to implement actions to meet contract milestone.
- Delayed Milestones are due to Contractor performance.
- Contractor is required to use additional resources, work longer and revise schedule.
- Not paid by Owner



Recovery



Disruption

- Disruption Disputes over labor productivity
 - Results from changes in the method of performance, resources, or planned sequence of work.



Disruptive Events

- Numerous changes
- Slow response to requests for information
- Tardy drawing reviews/inspections
- Interference with other contractors
- Limited site access
- Material availability problems
- Lack of planning and management
- Adverse weather conditions

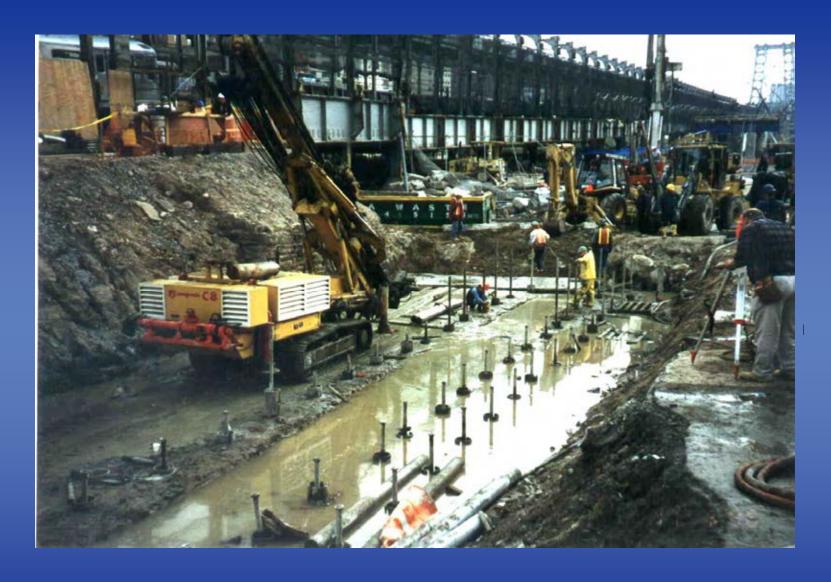




Causes of Labor Productivity Losses

- Overcrowding
- Stacking of trades
- Out of sequence work
- Extended overtime
- Changes in crew size
- Restricted access







CONSTRUCTION COST ELEMENTS

	TOTAL COST					
	DIRECT COST				OVERHEAD	
	LABOR		EQUIPMENT	MATERIAL	DIRECT OVERHEAD	INDIRECT OVERHEAD
	DIRECT LABOR	PAYROLL BURDENS			GENERAL CONDITIONS	HOME OFFICE
	Craft Labor	Fringe Benefits	• Leased	Direct Material	On-Site Staff	• G & A
	Supervision	Insurance & Taxes	• Owned	Sales Tax	On-Site Facilities	Marketing
					Permits & Fees	
						EICHLEAY
DELAY	Escalation		Standby	Escalation	Extended Performance	
ISRUPTION	Lost Productivity		ty			

Expediting

Additional Resources / Inefficiency

ACCELERATION



Proving Lost Productivity

- Total cost method
- Modified total cost method
- Industry guidelines
- Comparison to industry standard
- Comparison to contractor's historical productivity
- "Measured Mile" Comparison of impacted period to non-impacted period on project

Selected method depends on available records.

Overhead Costs

- Overhead Costs
 - Home Office Staff
 - Home Office Expenses
 - Misc. Home Office (Travel, Legal)
 - Depreciation on equipment
- Eichleay



Termination

- Termination for Convenience (T for C)
 - Owner ending contract when it suits its needs but not in bad faith
 - Owner must still pay terminated contractor damages (payment for work completed, demobilization costs, subcontractor close out costs, plus profit on work completed.)
- Termination for Default (T for D)
 - Nuclear option for Contractor's non-performance
 - Owner bears burden of proof to show contractor was in default--otherwise it is T for C.

Settlement of Claims

- Negotiation of Change Orders by all parties
- Mediation
- Arbitration
- Claim Board
- Courts



Tips for Approaching a Claim

- Be truthful
- Be reasonable about impacts and damages associated with it
- Know the Contract
- Be prepared to explain and defend your claim
- If possible, seek mediation
- Involve counsel



Warning against Overstating Claims

- Federal False Claims Act
 - Knowingly submitted false claims to the U.S. Government
 - Civil penalty plus triple the amount of damages claimed.



Additional Resources

- ASCE Claim Avoidance and Resolution www.asce.org
- American Association of Cost Engineers
 International <u>www.aacei.org</u>
- www.bestpracticesconstructionlaw.com



Questions



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