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2024 SPRING CONFERENCE

# Managing the Challenges of an Intersection Improvements Project

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**SUMNER**  
WASHINGTON



**consor**

# The Main and Wood Project



# Typical Complete Streets Elements

- Removal and replacement of sidewalks, driveways, and curb ramps
- Utility relocations
- HMA paving and striping
- Signal and lighting poles
- Water, Storm drain





## LEARNING OBJECTIVES



Objective 1 - Risks and mitigation for long-lead procurement



Objective 2 - Identify public coordination needs during construction



Objective 3 - Evaluate the advantages and risks of advanced utility relocation



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# Examples of Typical Long-Lead Items

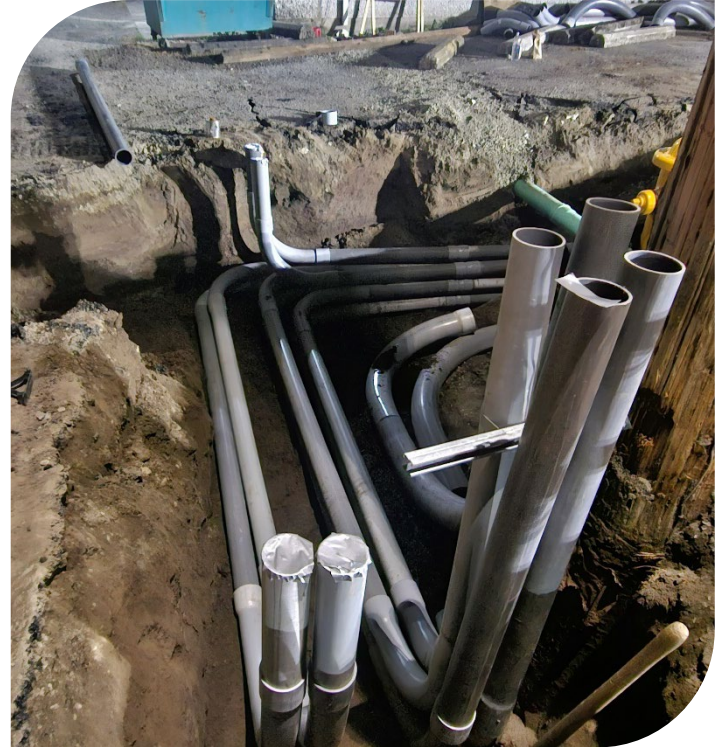


Element	Procurement time
Signal poles and controllers	9 months - 1 year
Decorative lighting	9 months - 1 year
Traffic cameras	6 months - 1 year
Precast concrete	3 - 6 months



# Methods for Mitigating Long-Lead Times

- Preorder materials
- Initiate contract procurement time and suspend
- Complete other project work and suspend







# Preorder Materials

- Process
  - 1) Order materials and procure materials prior to advertising the contract





# Preorder Materials

## Advantages

- Material is available to be installed at Contractor convenience.
- Agency preferred items can be installed without approving an “Approved Equal”.





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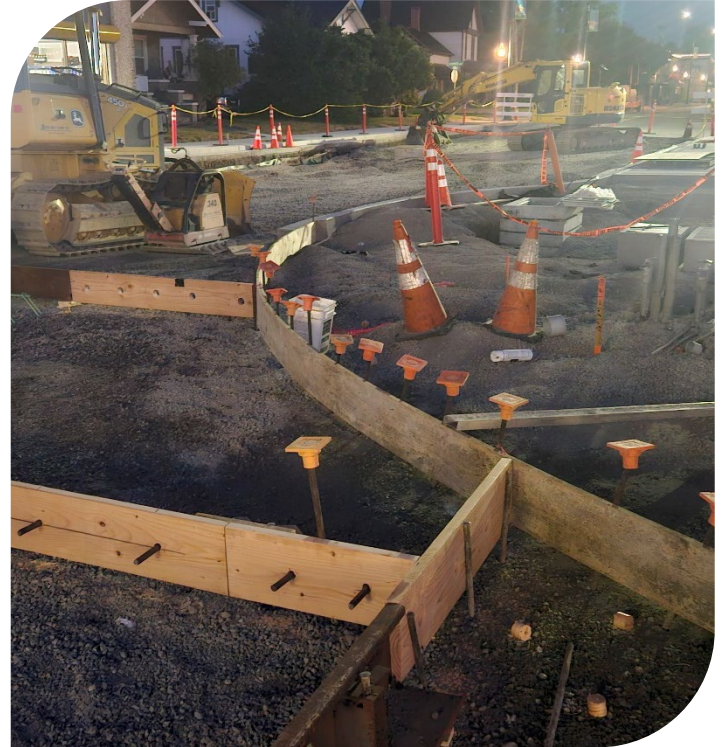
## Risks

- Some grants/agencies won't reimburse for the preordering of materials
- Agency owns handling and condition of materials
- Material Storage



# Initiate Contract Procurement Time and Suspend

- Process
  - 1) Issue NTP to the Contractor
  - 2) Review and approve materials for procurement
  - 3) Suspend contract upon receipt of paid invoice





# Initiate Contract Procurement Time and Suspend Advantages

- Grant and Federal allowable
- All contract work completed at the same time
- Shorten project duration





# Initiate Contract Procurement Time and Suspend

## Advantages

- Grant and Federal allowable
- All contract work completed at the same time
- Shorten project duration

## Risks

- Project can push to following season
- Delay in completion of other improvements
- Compounds schedule risk



# Complete Other Project Work and Suspend

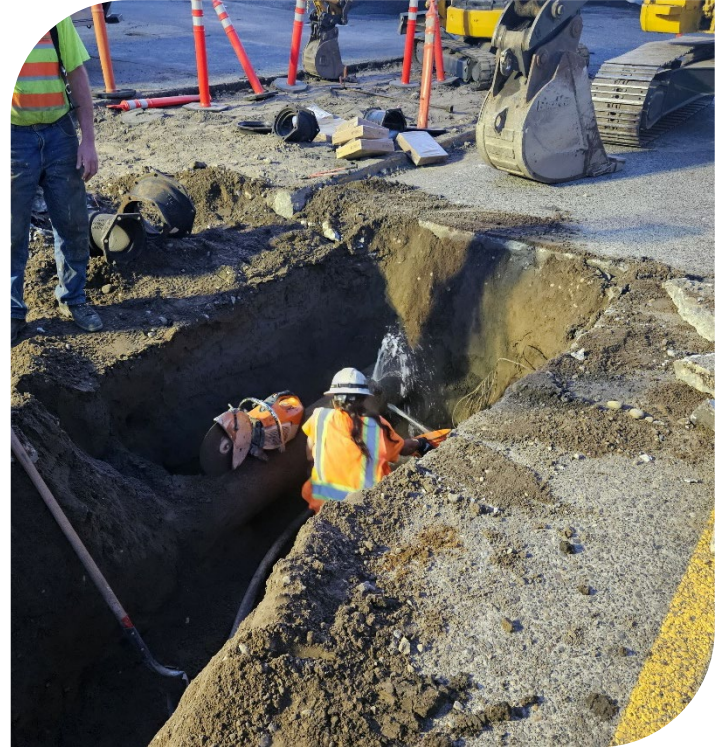
- Process
  - 1) Issue NTP to the Contractor
  - 2) Review and approve materials for procurement
  - 3) Complete all available work
  - 4) Suspend contract until materials are received





# Complete Other Project Work and Suspend Advantages

- Grant and Federal allowable
- Take advantage of Construction season
- Earliest project completion







# Complete Other Project Work and Suspend

## Advantages

- Grant and Federal allowable
- Take advantage of construction season
- Earliest project completion

## Risks

- Construction sitting out there 90% complete
- Construction Fatigue
- On going maintenance



# LEARNING OBJECTIVES



Objective 1 - Risks and mitigation for long-lead procurement



Objective 2 - Identify public coordination needs during construction

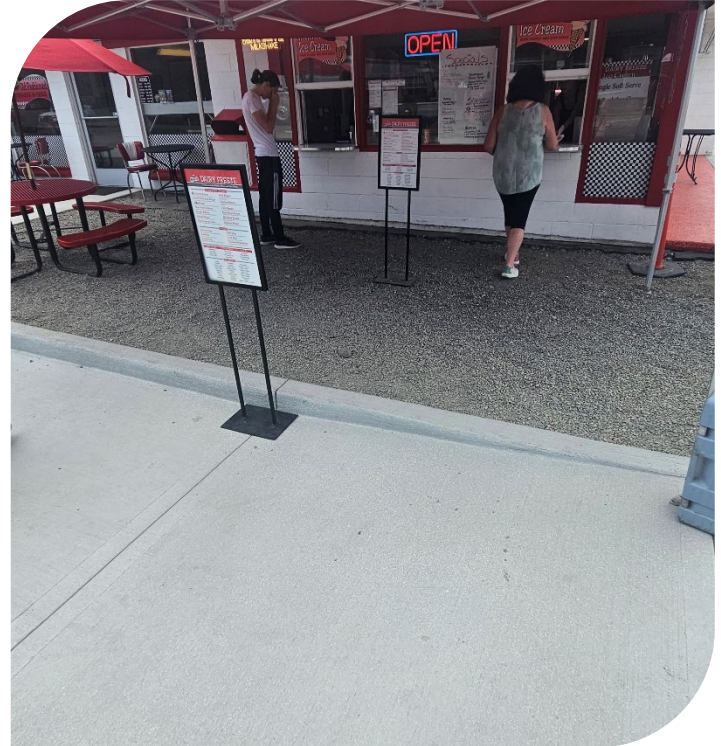


Objective 3 - Evaluate the advantages and risks of advanced utility relocation



# Identify Public Coordination Needs During Construction

- Process
  - Precon - Commitments List Review
  - Walk and Knocks
  - First Weekly Meeting





# Walk and Knocks (businesses / residents)

- Hours of operation
- Delivery days
- Special events
- Services interruptions / connections





# Walk and Knocks (businesses / residents)

- Garbage Days
  - Outreach to the servicer even if the road is open
- Bus Routes
- Mail Delivery
- Education on ADA and how that can effect their driveway





## General Public/Patrons

- Custom Signs for Business Access
- CMS Board
- Project Website Updates





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# Evaluate the Advantages and Risks of Advanced Utility Relocation

- Balancing Schedule Risk with Potential Conflicts







# Schedule Risks (During Construction)

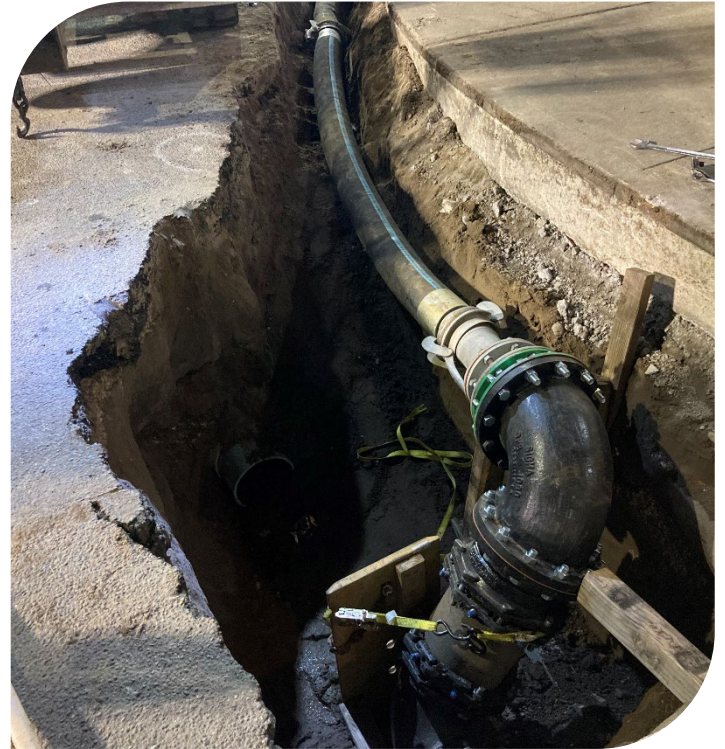
- Delays
- Emergency work





# Schedule Mitigation (During Construction)

- Precon Meeting
- Weekly Utility Coordination
- Site Preperation





## Conflict Risks

- New layout in conflict with new improvements
  - Work Area
  - Clearances
- Design Changes





# Conflict Mitigations

## Before Construction

- Survey Improvements
- Agency Representative on site

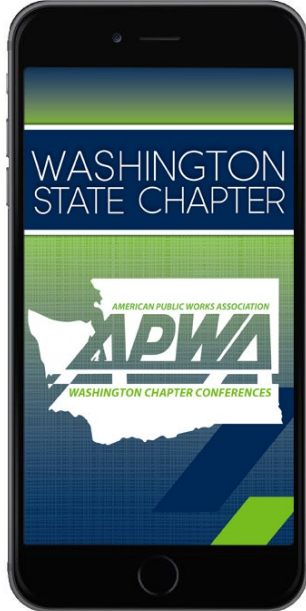
## During Construction

- Agency Representative on site
- Regular Utility Coordination Meetings

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