# MARSHALL MODERNIZATION

## Progressive Design Build Project

## Calhoun County, Michigan

**Michigan Department of Transportation | Southwest Region**

September 2023

Horatio Earle Learning Center

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# Do Not Rush or Take Shortcuts:

Consequences of rushing or taking shortcuts may include but are not limited to:

- Accidents involving yourself and coworkers
- Potential disabling injuries, which could put you out of work
- Mistakes which can involve in unhappy customers
- Rework of material or task
- Product damage or loss
- Failure to perform tasks properly

Tips to help you stay focused and slow down:

- Always put safety first, consider consequences of moving in a hurry
- Do not take shortcuts
- Use the right tools for the job
- Involve the right team for the job
- Identify hazardous situations in advance; stop unsafe conditions or acts!

# Marshall & Emmett Townships, City of Marshall, Calhoun County, MI

# Project Goals

- Need to meet timeline of Battery Plant Operational Access needs
- Right-size infrastructure improvements, with innovative solutions
- Collaboration between MDOT, stakeholders, creating flexible environment to respond to changes
- Progressive Design-Build; One-Step solicitation, best value

# Ongoing Early Preliminary Engineering

**Surveying all routes; gathering geotechnical data**

**Temporary construction work on M-96 and at I-69 interchange**

**Plant surveys, initiating environmental investigations**

**Traffic modeling and analysis, validating initial traffic impact study**

**Developing ICE and CE&I scopes for advertisement**

# Key Risks

**Environmental:** Early in environmental process; difficult to establish specific impacts until scope is defined

**Budget:** Set budget for the project, with no additional funds readily available to cover any cost increases

**Schedule:** Battery Plant plans to open in 2026, will need to maintain access once open and through all construction phases

**Right-of-Way:** MAEDA has begun acquisition east of 12 Mile, and MDOT will begin once environmental is classified.

**Utilities**: Careful coordination of design required to avoid relocations of newly placed facilities and maintain access to the plant

# Project Coordination

## Local Stakeholder Coordination

- Stakeholders including public, tribal organizations, business owners and local municipalities will be key

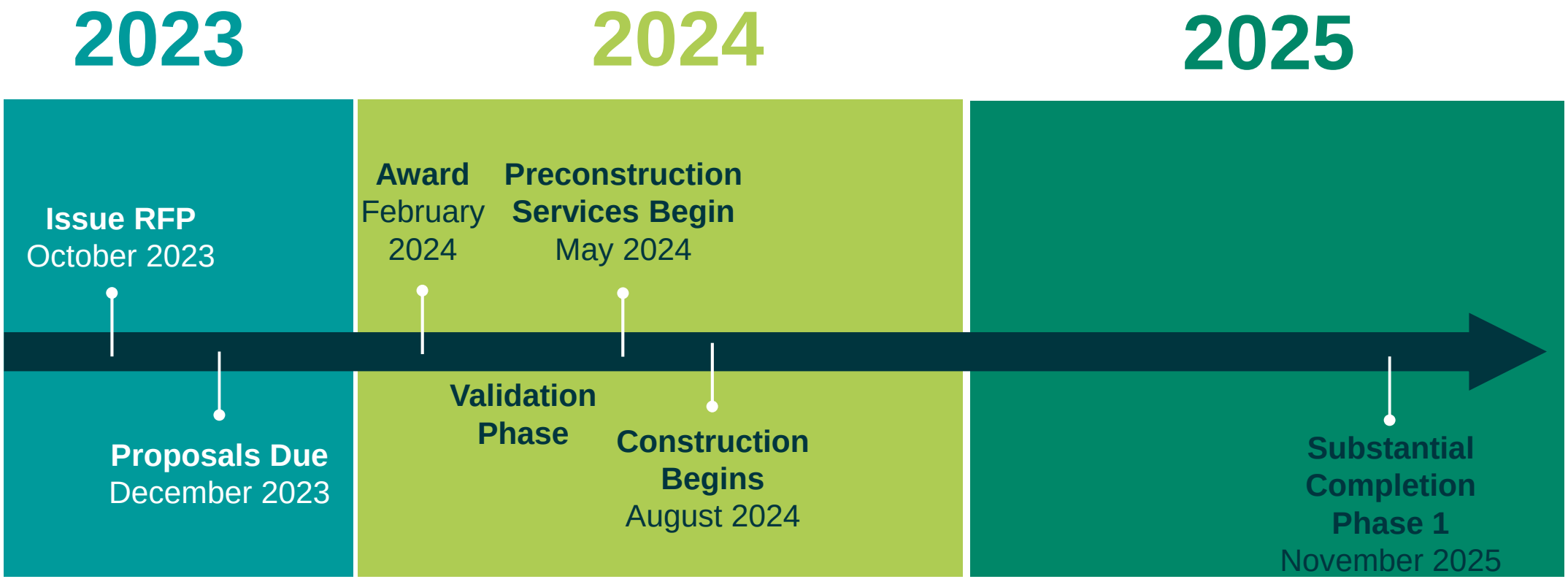
## Utility Coordination

- Coordination with utilities is on-going as utilities are also making improvements within the corridor

## Developer & Its Consultants

- Necessary to coordinate access driveways into the site and future improvements into the transportation network

# Project Schedule



## Duration: ~10 weeks

- RID available at RFP issuance
- Multiple options for Q&A submittal

## Interview Required

- 60 minutes total, 20 min presentation followed by 40 min Q&A
- 10 team member max in attendance

## Pricing/Rates Required

- MDOT will provide Preconstruction Fee Form to be completed with Proposal
- Number of hours/scope will be set by MDOT in RFP

# Pre-Quals/DBE Goal

**Anticipated Construction Pre-qualifications:**

Comb/Jt 300000 Cb, Ea or

Comb/Jt 300000 Cb, Fa or

Comb/Jt 300000 B, Ea or

Comb/Jt 300000 B, Fa or

Comb/Jt 300000 Ea, Fa

**Subclassification Required:**

Cb, B, Ea, Fa

**Design Services Pre-qualifications:**

Design – Roadway: Complex

Design – Bridge: Complex

Design – Hydraulics

Geotechnical: Advanced

Design – Traffic

Design – Utilities: Municipal

Surveying

*More listed on Proj Info Sheet

**Disadvantage Business Enterprise (DBE) Goal:**

0%*

100% State Funded Project, No DBE Requirement

**Key Staff**:

Project Manager

Project Supervisor

Construction Quality Control Manager

Design Manager

Lead Roadway Engineer

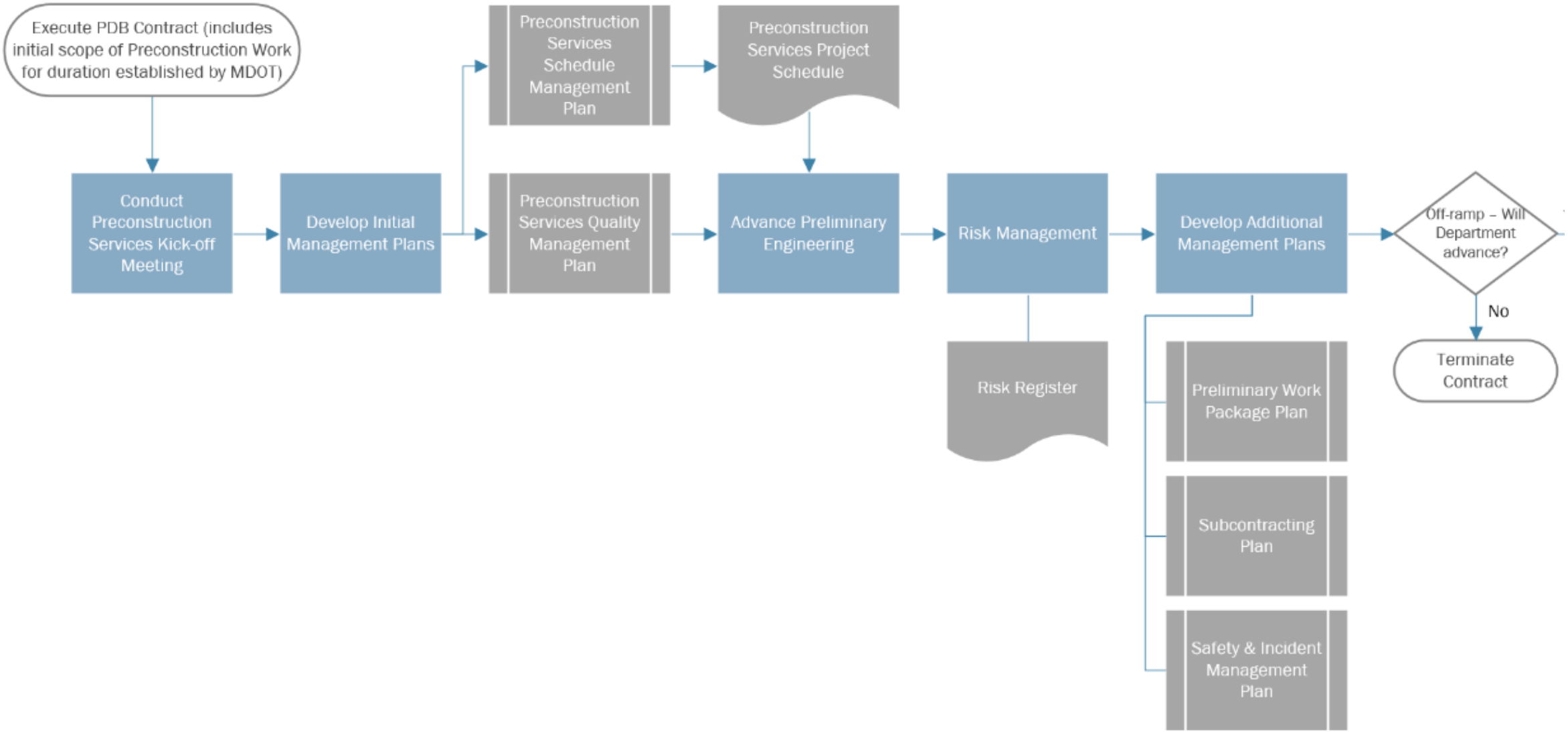
Lead Structures Engineer

Lead Cost Estimator

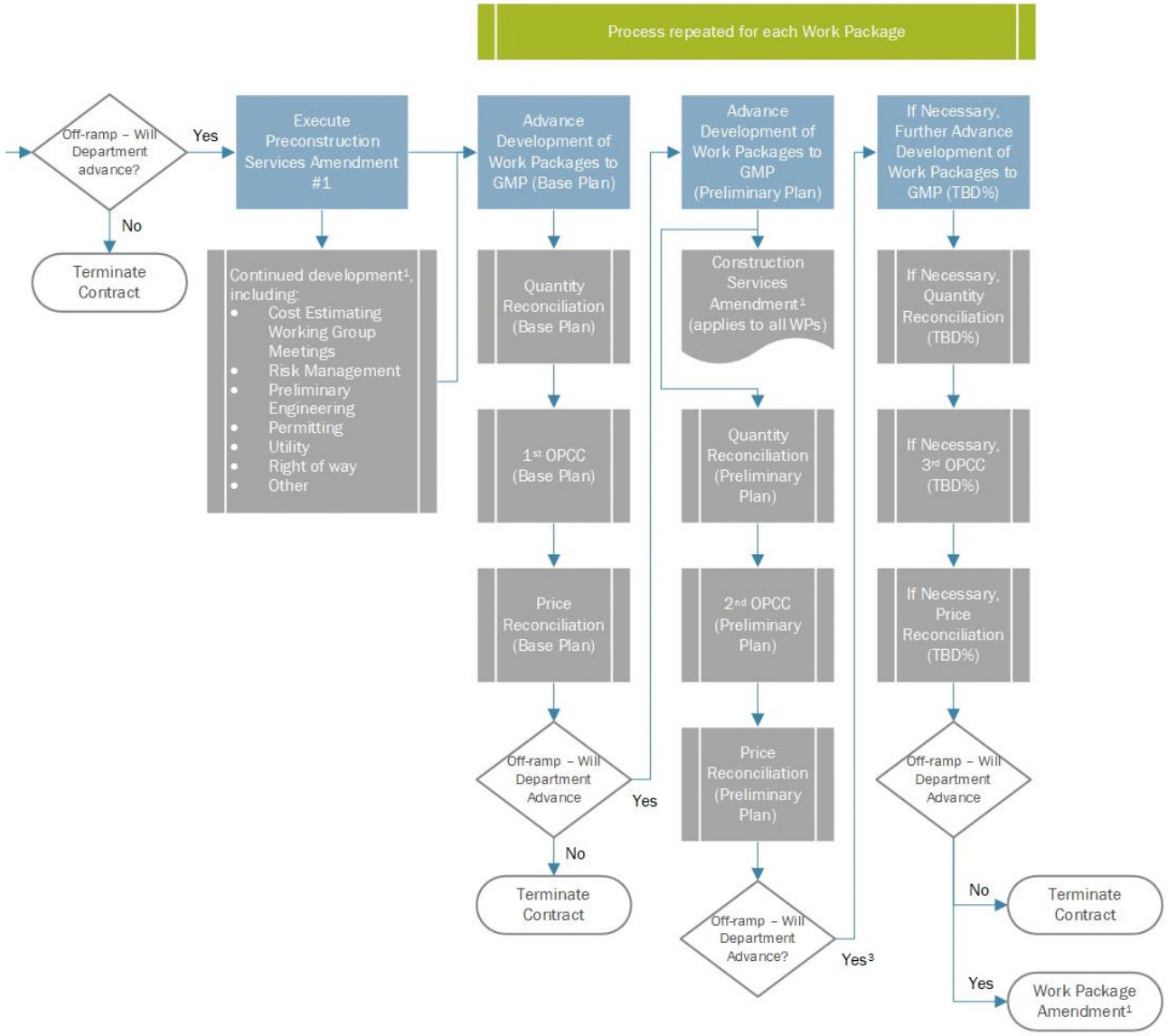
Environmental Compliance Manager

*Total of 14 anticipated*

# PDB Process


Execute PDB Contract (includes initial scope of Preconstruction Work for duration established by MDOT)
Conduct Preconstruction Services Kick-off Meeting
Develop Initial Management Plans
Preconstruction Services Schedule Management Plan
Preconstruction Services Quality Management Plan
Preconstruction Services Project Schedule
Advance Preliminary Engineering
Risk Management
Risk Register
Develop Additional Management Plans
Preliminary Work Package Plan
Subcontracting Plan
Safety & Incident Management Plan
Off-ramp – Will Department advance?
No
Terminate Contract

# PDB Process


Process repeated for each Work Package
Off-ramp – Will Department advance?
Yes
No
Terminate Contract
Execute Preconstruction Services Amendment #1
Continued development[1], including:
Cost Estimating Working Group Meetings
Risk Management
Preliminary Engineering
Permitting
Utility
Right of way
Other
Advance Development of Work Packages to GMP (Base Plan)
Quantity Reconciliation (Base Plan)
1st OPCC (Base Plan)
Price Reconciliation (Base Plan)
Off-ramp – Will Department Advance
Yes
No
Terminate Contract
Advance Development of Work Packages to GMP (Preliminary Plan)
Construction Services Amendment[1] (applies to all WPs)
Quantity Reconciliation (Preliminary Plan)
2nd OPCC (Preliminary Plan)
Price Reconciliation (Preliminary Plan)
Off-ramp – Will Department Advance?
Yes[3]
If Necessary, Further Advance Development of Work Packages to GMP (TBD%)
If Necessary, Quantity Reconciliation (TBD%)
If Necessary, 3rd OPCC (TBD%)
If Necessary, Price Reconciliation (TBD%)
Off-ramp – Will Department Advance
No
Terminate Contract
Yes
Work Package Amendment[1]

# Questions