



Engineering, Operations, & Technology Committee

# Professional Services Agreements for Zero-Emission Vehicles Infrastructure Upgrades

Item 8-2

October 7, 2024

## Item 8-2

### Professional Services Agreements for ZEV Infrastructure Upgrades

#### Subject

Authorize on-call agreements in amounts not to exceed \$3 million each, for engineering services to support zero-emission vehicle (ZEV) infrastructure upgrades

- Black & Veatch Corp.
- Burns & McDonnell Western Enterprise Inc.
- HDR Inc.
- Stantec Consulting Services Inc.

#### Purpose

Contracting with multiple firms provides flexibility & an efficient means for Metropolitan to develop designs for ZEV infrastructure upgrades

#### Recommendation and Fiscal Impact

Authorize agreements

Fiscal Impact – None

#### Budgeted

# Metropolitan Fleet Service Area & Transportation Hubs



- 1,200+ fleet assets
- 5,200 square mile service area & desert regions
- Across five counties
- Over 5,300 structures
- Over 300 miles of patrol roads

## Professional Services Agreements

## ZEV Infrastructure Upgrades

### Background

- Metropolitan's Climate Action Plan
  - Reduce carbon footprint
  - Offset greenhouse gas emissions
- Advanced Clean Fleets (ACF) regulates purchases of medium & heavy-duty, on-road fleet vehicles
  - 50% or more ZEV after Jan. 1, 2024
  - 100% or more ZEV after 2027
- Installing charging infrastructure is a key component of Metropolitan's Zero Emission Vehicle (ZEV) transition

# Zero-Emission Vehicle Infrastructure Upgrades

- Initial
  - Testing networked stations
  - Equip. ownership
- Goals
  - Learn about challenges
  - Bridge the gap until full build-out is complete



Pilot Charger

Professional  
Services  
Agreements

ZEV Infrastructure  
Upgrades

## Professional Services Agreements

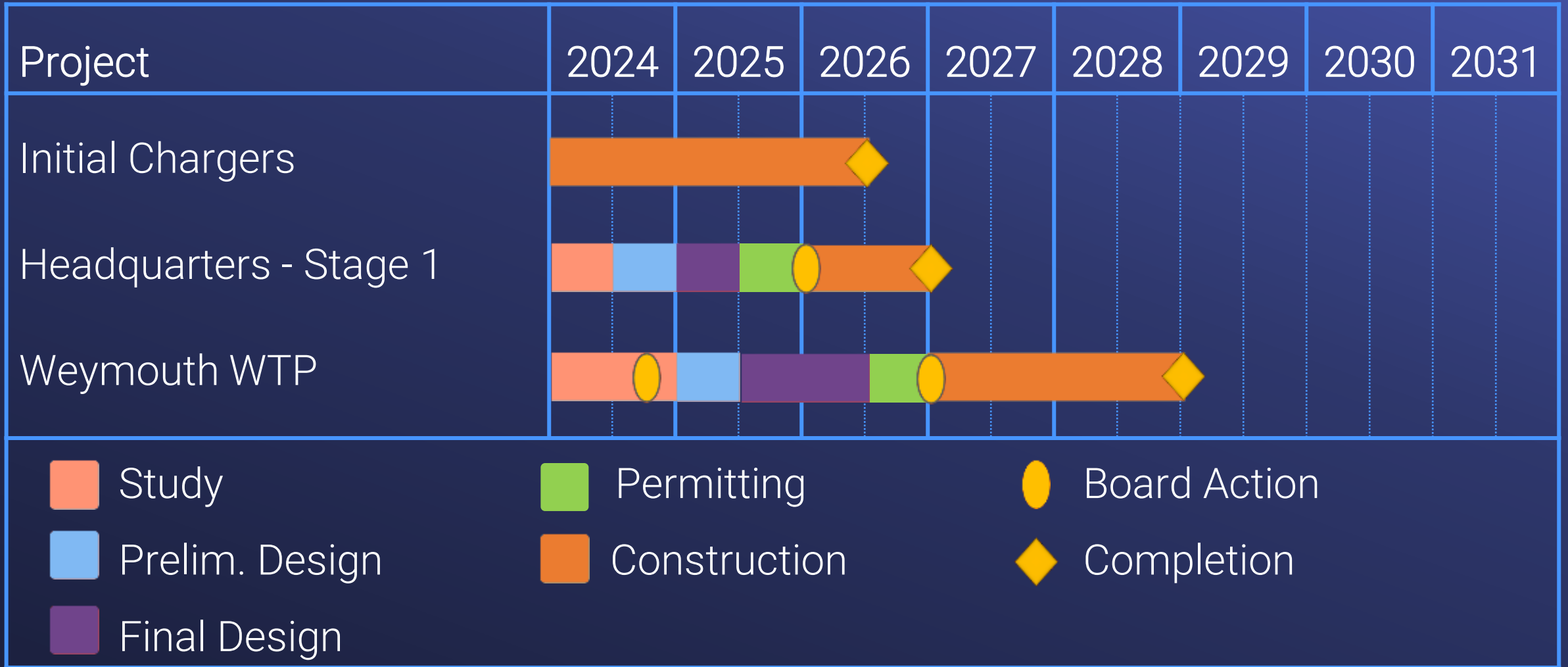
## ZEV Infrastructure Upgrades

# Zero-Emission Vehicle Infrastructure Upgrades

- Activities for full build-out
  - Transmission & distribution analysis
  - Planning & partnering with utilities
  - Investigation of codes & regulations
  - Development of contract documents
- Pursue incentives
- Coordinate infrastructure with vehicle procurement



# Schedule - Phase 1 Typical



Professional  
Services  
Agreements  
ZEV Infrastructure  
Upgrades

## Request for Qualification (RFQ) 1368

- Issued March 2024 to establish a pool of qualified firms
- Covered services in three categories:
  1. ZEV infrastructure improvements
  2. Hydrogen fueling systems
  3. Enterprise visualization analytics



Professional  
Services  
Agreements  
ZEV Infrastructure  
Upgrades

## Request for Qualification (RFQ) 1368

- Services to be provided include:
  - Perform field inspection
  - Evaluate standards & recommend equip.
  - Develop design criteria & coord. w/ utilities
  - Prepare conceptual, prelim. & final design documents
  - Provide permitting, grant application & compliance reporting support
  - Develop construction cost estimates & provide bid support
- SBE participation level – 25%

## Professional Services Agreements

### ZEV Infrastructure Upgrades

## Alternatives Considered

- Utilize Metropolitan staff
  - Staff concentrating on core work
- Selected Alternative – Hybrid approach
  - Utilize several consulting firms to support design
  - Metropolitan staff provides facility information & technical oversight

# Board Options

- Option #1

Authorize on-call agreements with Black & Veatch Corporation, Burns & McDonnell Western Enterprises Inc., HDR Inc., and Stantec Consulting Services Inc., in an amount not to exceed \$3 million each, for a maximum period of three years, to provide design and support services related to the ZEV infrastructure upgrades at Metropolitan facilities.

- Option #2

Do not authorize the consulting agreements at this time.

# Staff Recommendation

- Option #1

