Eisenhower West Transportation Study

Scope of Work Summary

Background

The City Council recognizes the economic potential of Eisenhower West, and on May 28, 2013 gave staff direction to begin work on the Eisenhower West Small Area Plan (SAP) in FY 14, citing the anticipated benefits that the SAP could have in unlocking the economic potential of the area.

The transportation study is intended to help resolve major transportation issues that impact Eisenhower Valley, the Duke Street Corridor, and Landmark/Van Dorn areas. The Eisenhower West Transportation Study is prepared to begin and will be initiated prior to the SAP. It will focus on three key components, including:

- Serve as the transportation element / analysis of the SAP, which will include the analysis of various "build" land use scenarios to be further explored in the SAP;
- Conduct additional analysis of the Multi-modal bridge concept that was recommended in the Landmark/Van Dorn Corridor Plan (adopted in 2009) to determine a more specific alignment;
- Conduct additional analysis of the need for an extension of the Clermont Connector between Eisenhower Avenue and Duke Street (Eisenhower to Duke Connector).

The current schedule for the Eisenhower West SAP is to immediately start the transportation study (anticipated to begin late Fall 2013), followed by the SAP and related land use planning effort which will begin in Spring 2014, with an anticipated completion date 18 months later. Council has directed staff to complete the SAP as expeditiously as possible. It is anticipated that a consultant for the transportation study will be selected by the City in late Fall 2013, and the project will commence in late 2013.

The transportation study scope of work includes a study of issues related to the former Eisenhower Connector project and more detailed study of major planned transportation improvements (such as the multi-modal bridge in the Landmark/Van Dorn Corridor Plan and the Farrington Avenue road extension).

Scope of Work Summary

The project scope of work will include the following key components:

Task 1 - Project Management: This task involves various elements related to managing the project including technical direction, coordinating meetings, and managing scope, schedule,

invoices and progress reports. This task also includes working with a Technical Advisory Committee comprised of technical staff from the City, FHWA, Fairfax County, VDOT and WMATA, that will meet periodically to review deliverables and provide technical input.

Deliverables: Progress Reports, Invoices, meeting minutes, project schedule

Task 2 – FHWA/VDOT Review of Project: This task involves a meeting with both FHWA and VDOT to review the project approach to ensure it is acceptable.

Deliverables: Refined project scope of work if needed

Task 3 – Civic Engagement: This task involves a collaborative engagement plan with the community, that is consistent with the City's "What's Next, Alexandria?" civic engagement program. The civic engagement plan for the project will include outreach to stakeholders through the use of public meetings, a project website and social media, briefings to Council and various commissions, and the use of a Steering Committee. The Steering Committee will be composed of residents, landowners, and other stakeholders to provide guidance on the transportation study, as well as the Eisenhower West SAP. One of the key tasks of the Committee during the Transportation Study will be to provide input on land use scenarios for analysis. It is anticipated that the Committee will have approximately two to three meetings during the transportation study.

Deliverables: Civic Engagement Plan, public meeting materials, and content for webpage and social media

Task 4 – Review Background Materials / Information: This task includes a review of previous local and regional planning studies, emphasizing information that is relevant to the study area. This includes regional goals and objectives, background on the Clermont connector project, travel patterns, current and future land use patterns, existing and anticipated transportation deficiencies, corridors identified for major transit investments, prioritization of corridors, promising corridor alternatives, and available financial resources for the construction and operation of corridor improvements.

Deliverables: Summary of Project Background

Task 5 – Existing Conditions: This task includes the documentation of existing transportation conditions for all modes. It includes an inventory of current planned and programmed projects,

collection of weekday AM/PM traffic counts (including pedestrian and bicycle) at up to 30 intersections, analysis of the existing traffic operations (to include level of service, average delay, travel time and queue analysis). In addition, the existing land use, social, economic and environmental conditions will be summarized.

Deliverables: Existing Conditions Report

Task 6 – Landmark Van Dorn Corridor Plan Multi-Modal Bridge Analysis: This task includes a review of the multi-modal link / bridge (between the Van Dorn metrorail station and Pickett Street) that was recommended in the Landmark Van Dorn Corridor Plan. While the Landmark Van Dorn Corridor Plan identified a conceptual layout for the new bridge, a more detailed analysis is needed to determine a more specific alignment and conceptual design. This task will require the analysis of options and recommend a preferred alignment and layout for the multi-modal bridge.

Deliverables: Technical memorandum describing proposed options, evaluation and recommendations for the Multi-modal bridge

Task 7 – Establish Future Land Use Scenario Measures of Effectiveness: This task includes the development of Measures of Effectiveness (MOE's) to be used in analyzing future (Year 2040) land use scenarios. The MOE's will be used to conduct a thorough evaluation, and may include both quantitative and qualitative criteria/measures. The Contractor will work with staff, the Technical Advisory Group and other stakeholders as appropriate to confirm the MOE's prior to the analysis.

Deliverables: Technical memorandum describing proposed Measures of Effectiveness

Task 8 – Establish Future 2040 Baseline Scenario: This task includes the development of a land use scenario that can be compared against future 2040 build scenarios. It would assume current planned land uses, as well as programmed transportation system improvements (in the City's 2014-23 Capital Improvement Program, and TIP, regional programmed transportation improvements). The traffic operations analysis will assume the latest version of the Metropolitan Washington Council of Governments (COG) regional travel demand model and existing traffic count data to develop Year 2040 AM and PM peak hour intersection turning movement volume projections. These traffic forecasts will be applied to the future baseline roadway network files to forecastt future baseline traffic operations (to include level of service, average delay, travel time and queue analysis).

Deliverables: 2040 Baseline Scenario Technical Memorandum

Task 9 – Development of Future 2040 Build Land Use Scenarios: The Eisenhower West Transportation Study will be conducted prior to the SAP which includes a more detailed land use analysis. For the purposes of the Eisenhower West planning effort, the transportation impacts associated with various land use thresholds will be used to inform the land use planning effort. This task includes establishment of future (year 2040) development "Low" and "High" land use scenarios for the study area, in consultation with staff, the Steering Committee, and other stakeholders as determined.

Deliverables: Technical Memorandum with description and comparison of the "low" and "high" land Baseline Scenario

Task 10 – Analysis of Future 2040 Land Use Scenarios: This task includes the analysis of the future 2040 build land uses (developed as part of Task 9). The task will include the assessment of the future transportation system for both land use development scenarios, analyzing each scenario, and comparing to the Baseline scenario using the measures of effectiveness identified in Task 7. This analysis will include an assessment of traffic operations, potential interactions between automobile traffic and pedestrians, bicycles and transit. Traffic forecasts will be applied to the future build roadway network files to forecast 2040 build traffic operations (to include level of service, average delay, travel time and queue analysis). The analysis will also identify and use qualitative measures that are more appropriate for evaluating performance of the circulation system as a whole in an urban context, which may include pedestrian and bicycle service and safety, transit service quality, mode shares and mode choice, local mobility and local access.

As part of this task, transportation-related capital improvements and operational changes that will be needed to support the future land use scenarios will be identified, and will include an assessment of the need for the Eisenhower to Duke extension of the Clermont Connector. Additional operational analysis will be conducted to determine the potential effects if major plan components are required to address the future land use scenarios. This task also includes the development of planning level order-of-magnitude cost estimates (cost range) for the needed improvements and operational changes, and a phasing strategy.

Deliverables: Technical Memorandum summarizing the analysis of 2040 scenarios (against the measures of effectiveness) and identified additional improvements, cost estimates and phasing.

Task 11 – VDOT and Chapter 527 Processing: This task includes the preparation of a project scoping document to be submitted to the Virginia Department of Transportation (VDOT), and a

traffic impact analysis report for the Eisenhower West Small Area Plan in compliance with VDOT Chapter 527 guidelines. The report will be used to verify that the assumptions and methodology of the study are performed in accordance with the Virginia Traffic Impact Analysis Regulations 24 VAC 30-155 (Chapter 527).

Deliverables: Scoping document and meeting with VDOT, and draft/final versions of the Chapter 527 Report (submitted to VDOT)

Task 12 – Technical Report: This task includes the compilation of the various technical memorandums into a draft and final report, including a list of recommendations. The report will include an Executive Summary and applicable appendices.

Deliverables: Draft and Final Report