



**Chatham Bridge
Rte. 3 over Rappahannock River
Stafford County and
Fredericksburg City Line**

October 25, 2010

Annette Adams, PE

District Structure and Bridge Engineer

Fredericksburg District, Structure and Bridge

History

- **Built 1941**
- **Length – 1,006 ft., approximately 11% on City property**
- **Width – 40 ft. between curbs, 4 ft. sidewalk each side**
- **Currently 4 – 10 ft. lanes**
- **Sufficiency Rating – 36 out of 100**
- **10 spans, structural steel**
- **Asphalt pavement over concrete deck, re-pave every 2 to 3 years**
- **Approximately 50% plans complete by Whitman, Requardt, & Associates (\$157,349)**

Construction Estimate and Schedule

Includes:

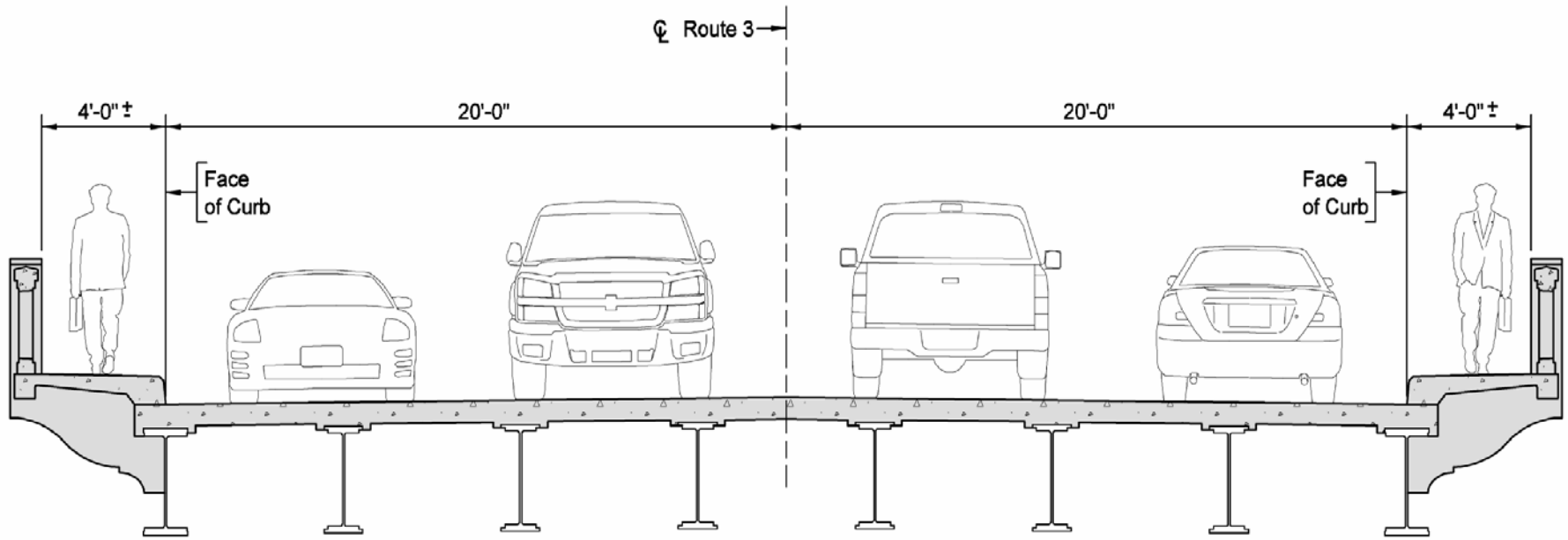
- Replacing the bridge deck, railing, and lighting
- Repairing existing structural steel beams and concrete substructure

- REPAIRS - \$8 million (2005 dollars)
- REPLACEMENT - \$14 million (2005 dollars)
- 30 months for construction using 2 stages

Construction Issues

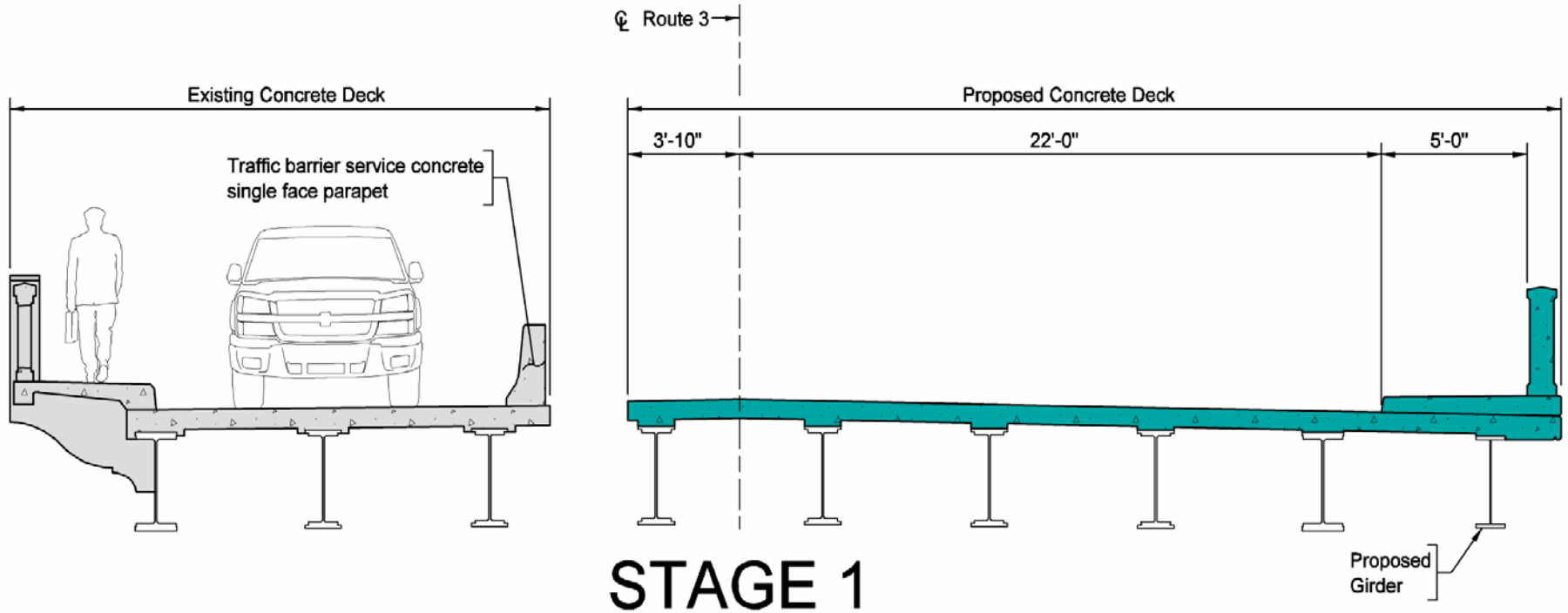
- **Significant utility impacts and accommodations**
- **Historic district**
- **Stone Warehouse, downstream on City end**
- **National Park Service land, upstream on Stafford end**
- **Possibly build temporary causeway to City island in river as staging area**

Current Configuration



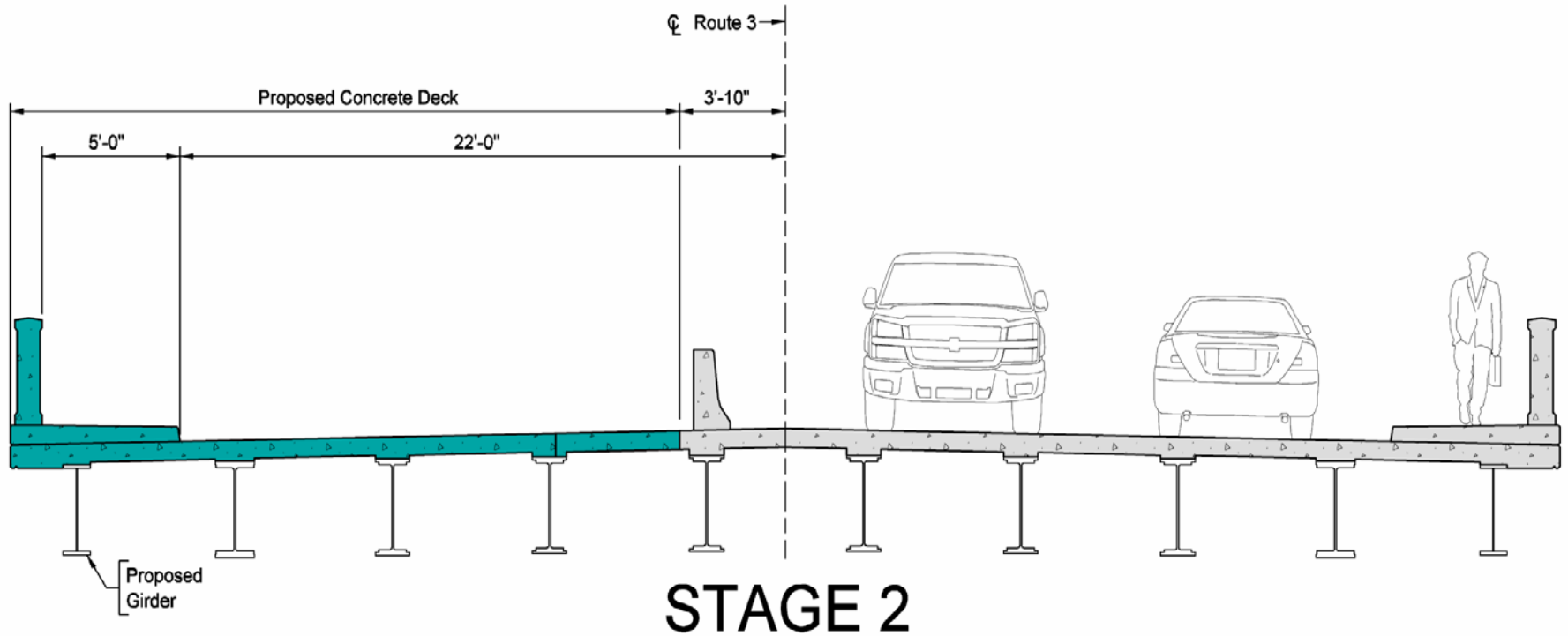
EXISTING BRIDGE

Current Stage 1 Construction



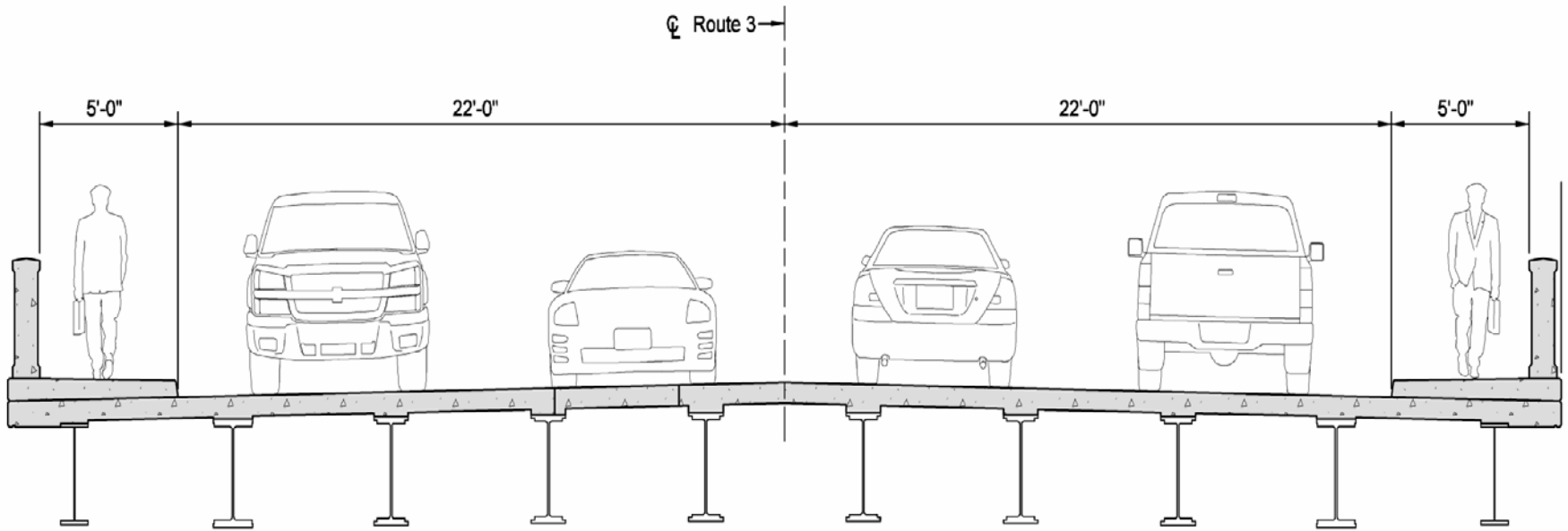
Single lane of traffic
from Stafford into City

Current Stage 2 Construction



Single lane of traffic, each direction
between Stafford and City

Current Final Construction



FINISHED BRIDGE

4 – 11 ft. lanes
2 – 5 ft. sidewalks

Potential Different Final Configurations

- **Separate bridge for bicycles, pedestrians, utilities**
- **Single bridge with one multi-use path, 4 travel lanes, one sidewalk**

Questions?



Falmouth Bridge History

- **Built 1943**
- **Length – 1,416 ft., portion on City property**
- **Width – 44 ft. between curbs, 4 ft. sidewalk each side**
- **Currently 4 – 11 ft. lanes**
- **Sufficiency Rating – 44 out of 100**
- **14 spans, structural steel**
- **Concrete deck**
- **Lighting removed due to deteriorated condition**

Falmouth Bridge Current Status

- **Whitman, Requardt & Associated tasked with assessing current condition and proposing rehabilitation options (\$165,180)**
- **Hands-on assessment scheduled for first two weeks in November 2010**
- **Phase I Preliminary Engineering Report expected May 2011**
- **No bridge improvements part of Rte. 1, 17, and 218 project**



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