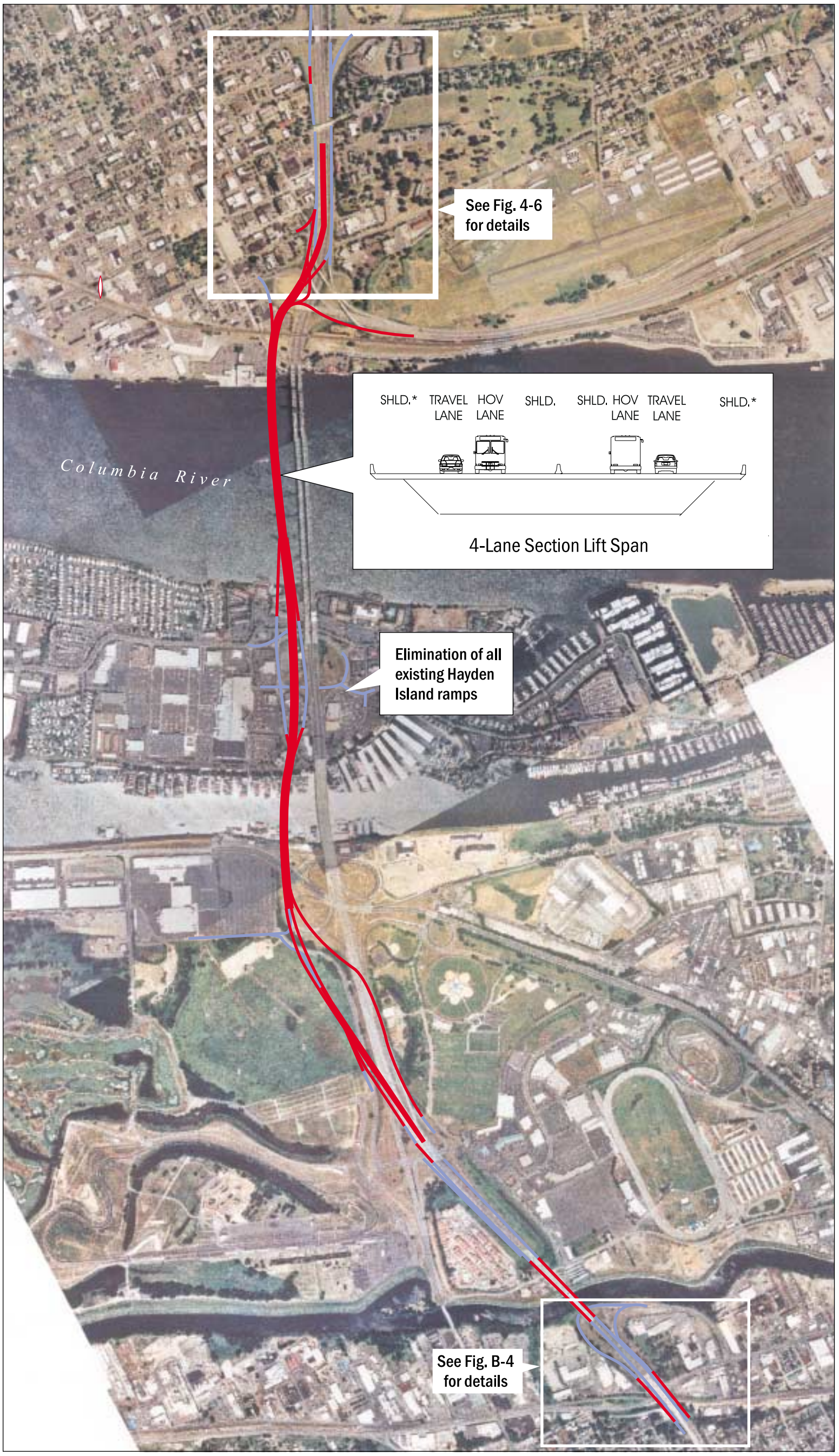

Roadway Construction

Bridge/ Elevated Roadway Construction

* Bicycle and Pedestrian access to be improved on new or existing bridges

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Fig. 5-1. New 4-lane Supplemental Bridge for Express Bus, HOV, and Hayden Island Access

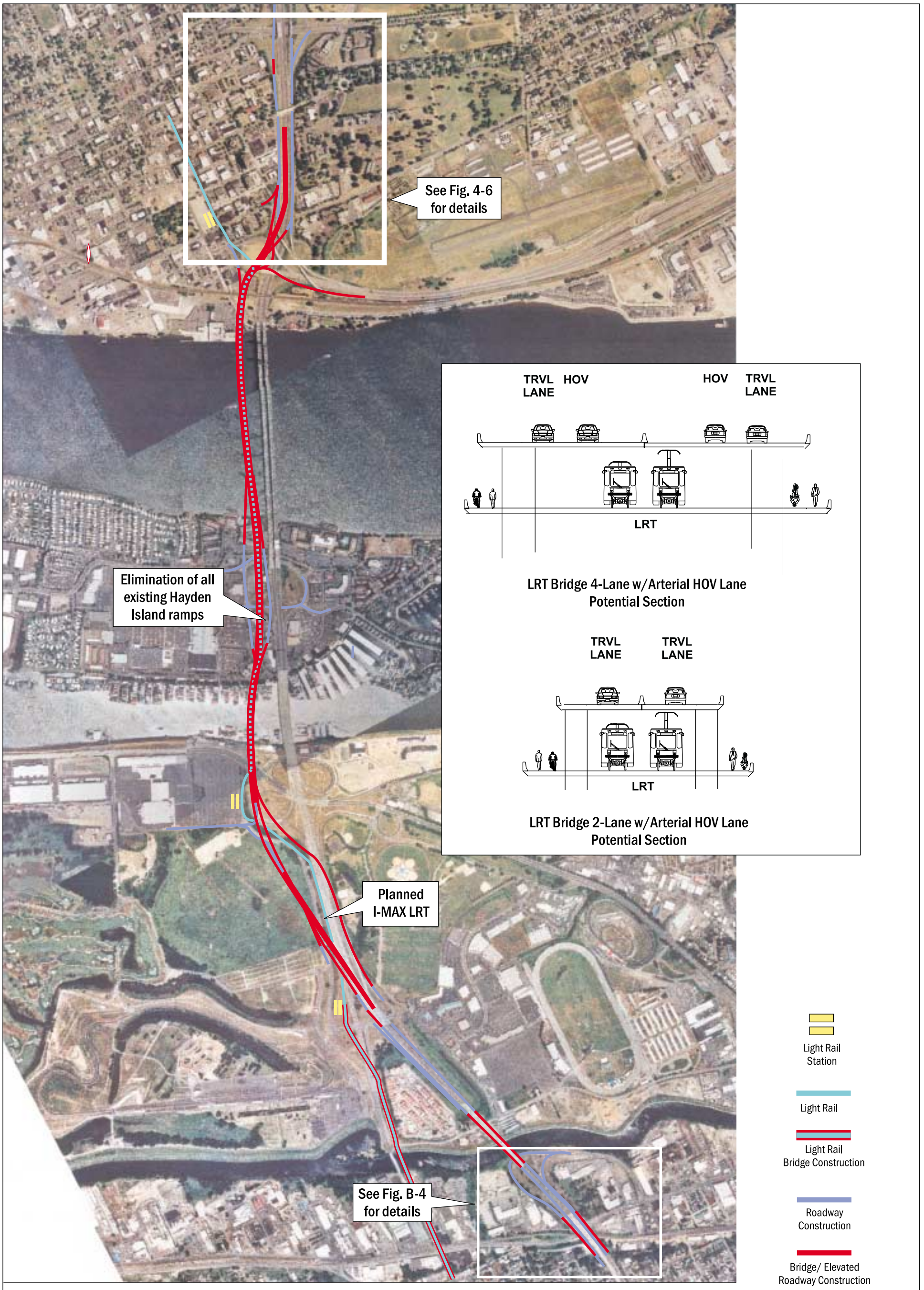

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Fig. 5-2. New 4-lane Supplemental Bridge for LRT, HOV, and Hayden Island Access

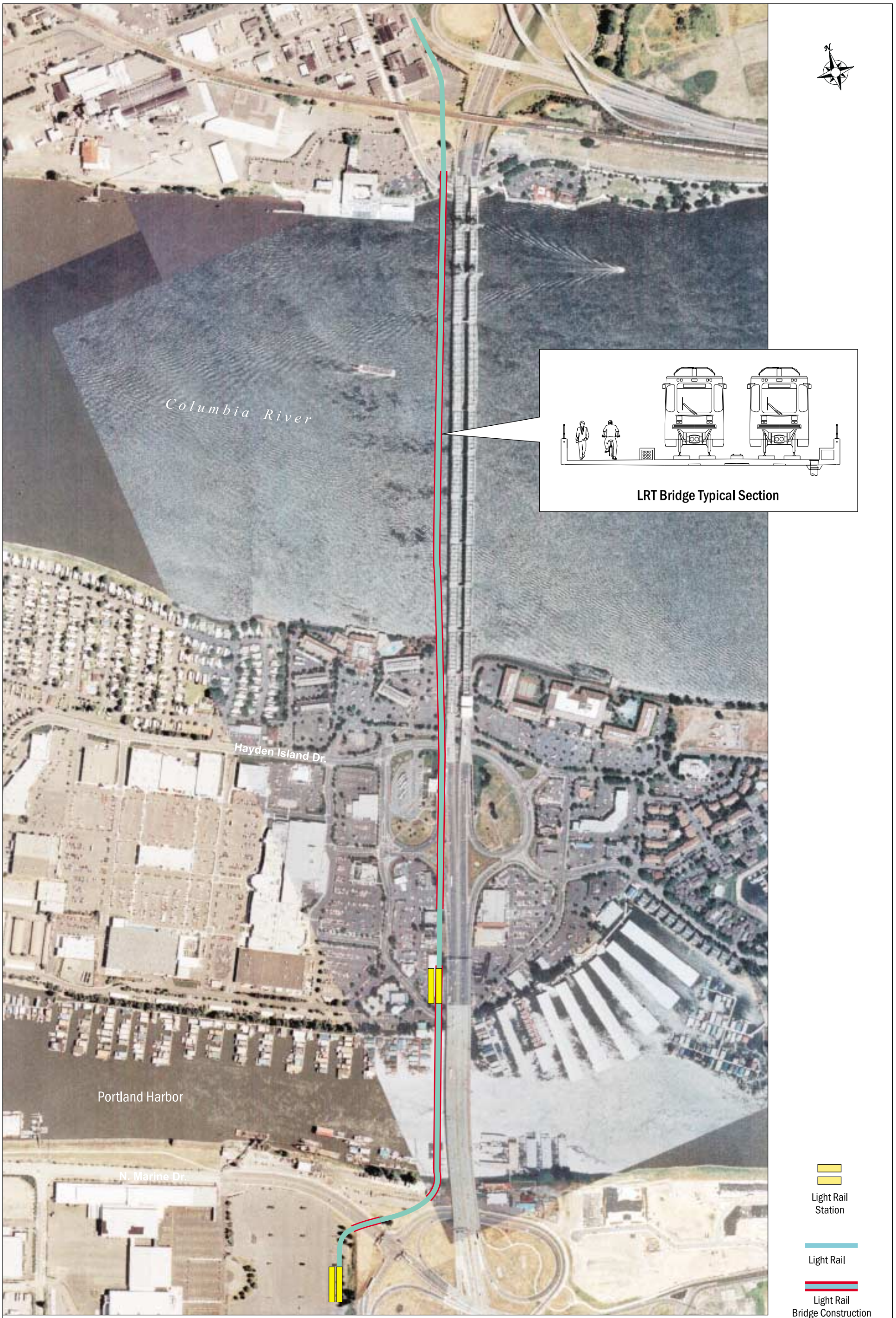

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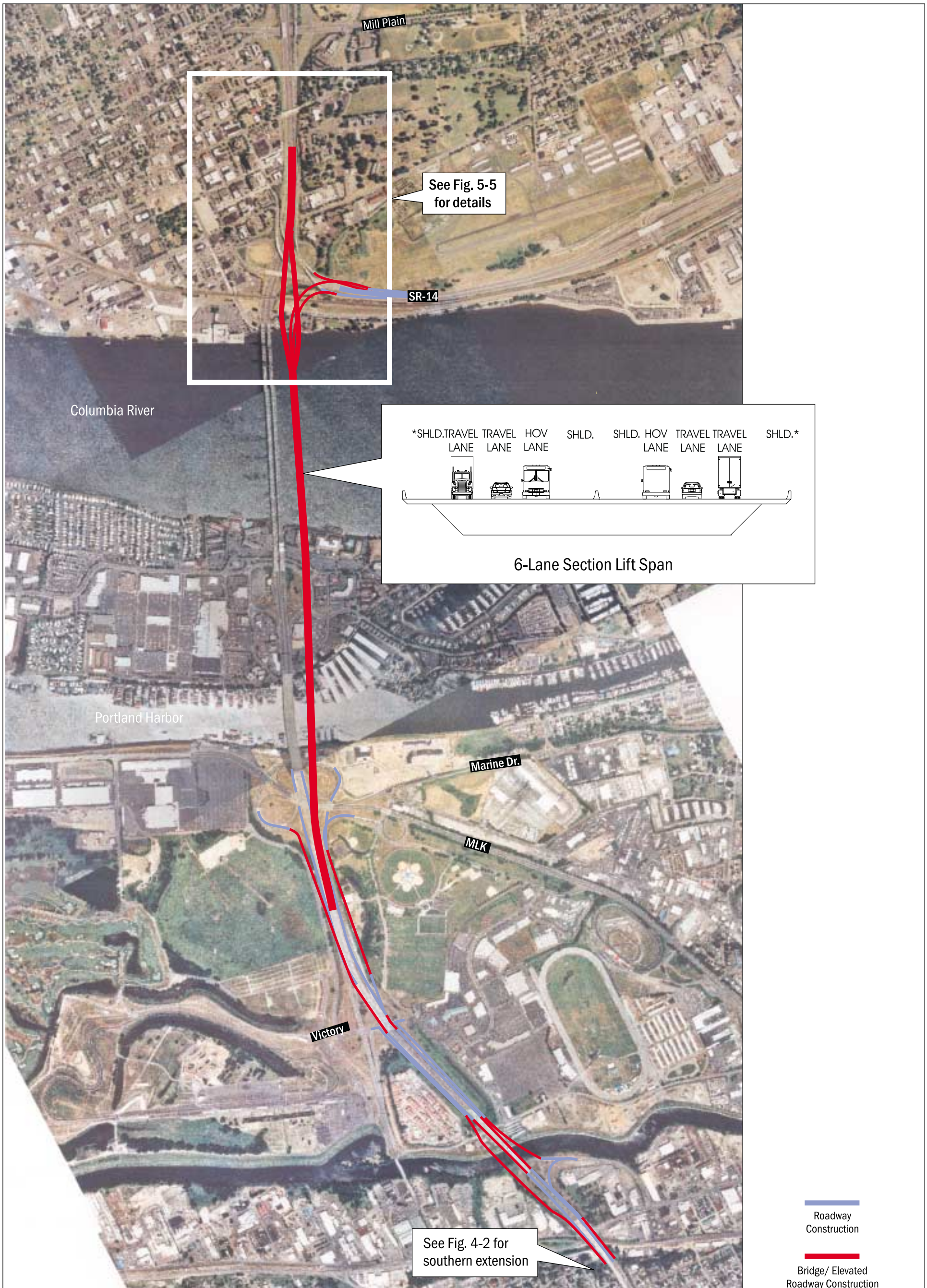
Fig. 5-3. New Supplemental Bridge for LRT only



* Bicycle and Pedestrian access to be improved on new or existing bridges

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Fig. 5-4. New Supplemental 6-lane Bridge

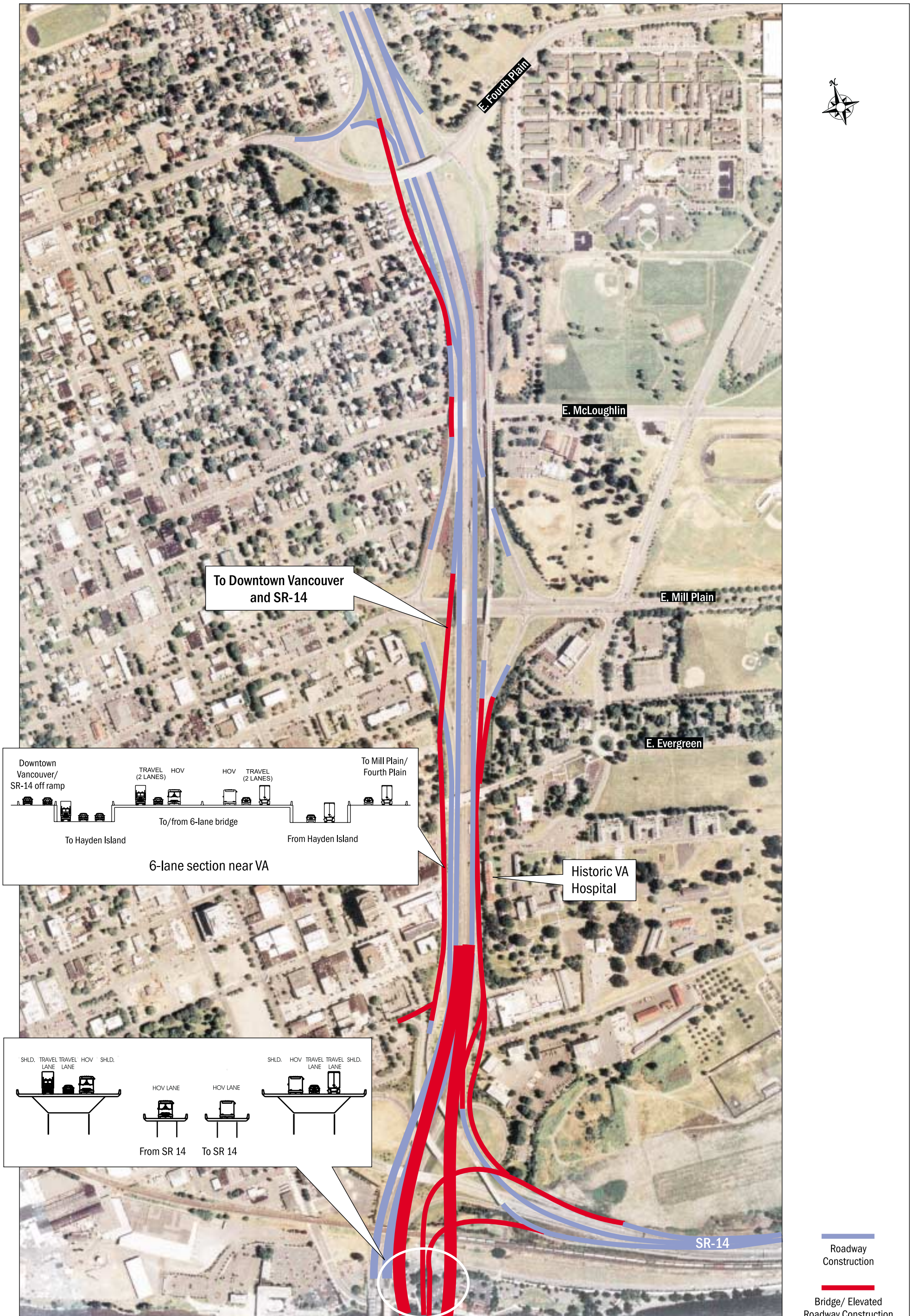

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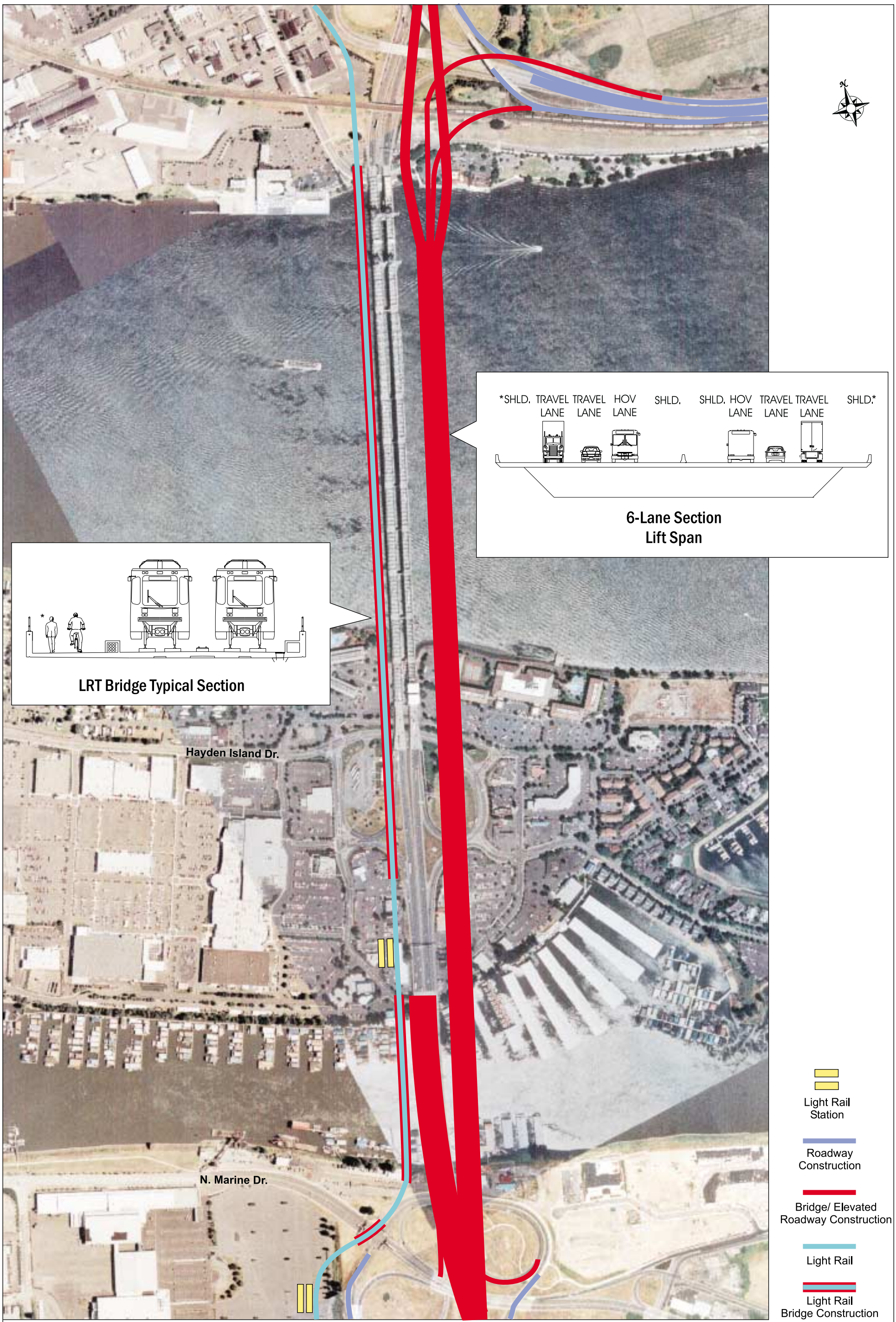
Fig. 5-5. New Supplemental 6-lane Bridge Transition Near VA Hospital



* Bicycle and Pedestrian access to be improved on new or existing bridges

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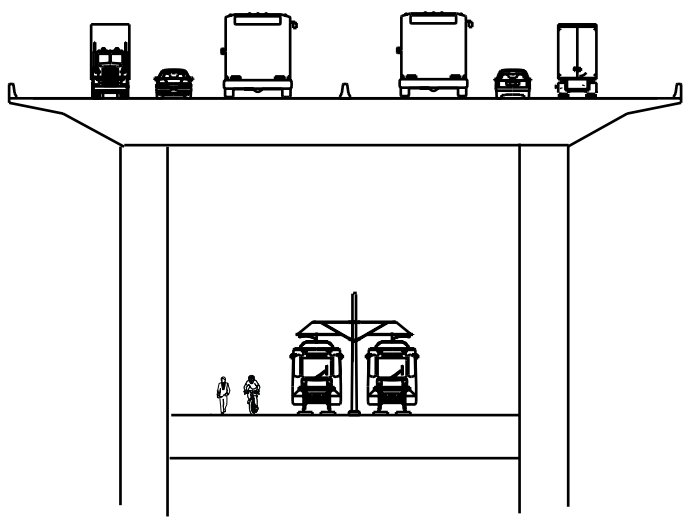
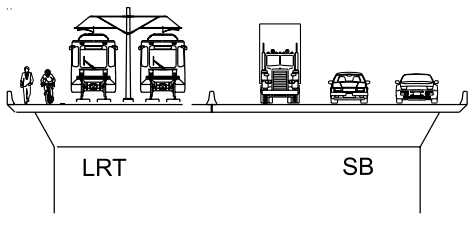
Fig. 5-6. New Supplemental 6-lane Bridge with separate LRT Bridge

Below are three potential cross sections that demonstrate how light rail could be integrated into a new 5 or 6-lane supplemental bridge. If such a bridge were preferred by the Task Force, the following are some of the issues that would need to be addressed in and EIS:

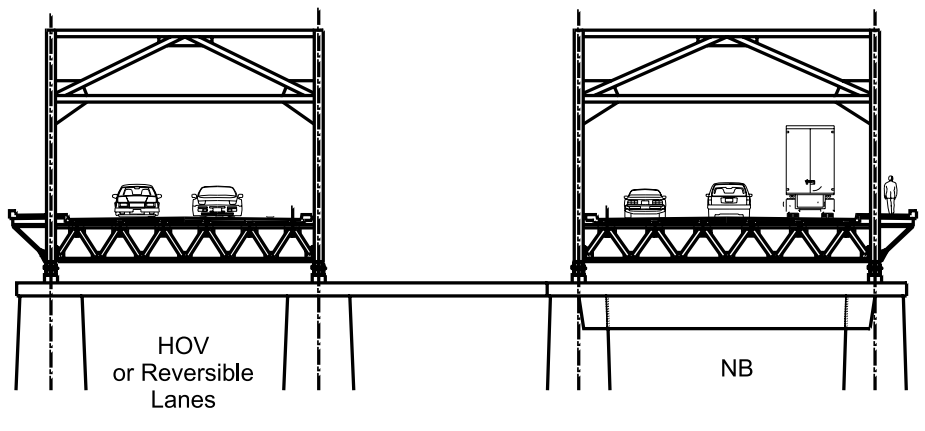
- Whether the supplemental bridge would be east or west of the existing bridges
- Whether the bridge should be double deck or single deck design
- How the existing bridges should be used: light rail, HOV or reversible lanes, local traffic?
- How the supplemental bridge should be used: light rail, HOV or reversible lanes, local traffic?
- Location and design of bike and pedestrian facilities.



Potential cross section



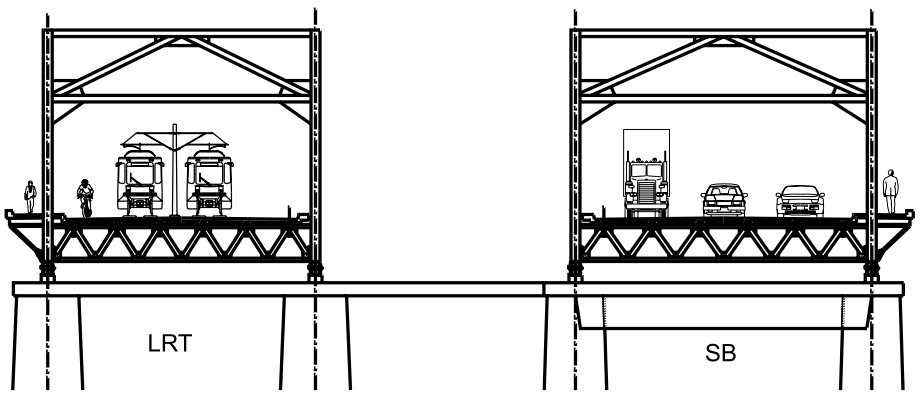
New supplemental
bridge west of existing bridges



Existing Bridge

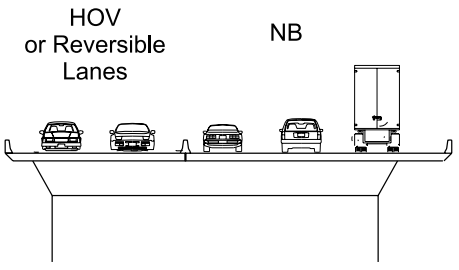
Existing Bridge

Potential cross section



Existing Bridge

Existing Bridge



New supplemental
bridge east of existing bridges

Potential cross section

Fig. 5-7. New Supplemental 6-lane Bridge with Joint Use LRT

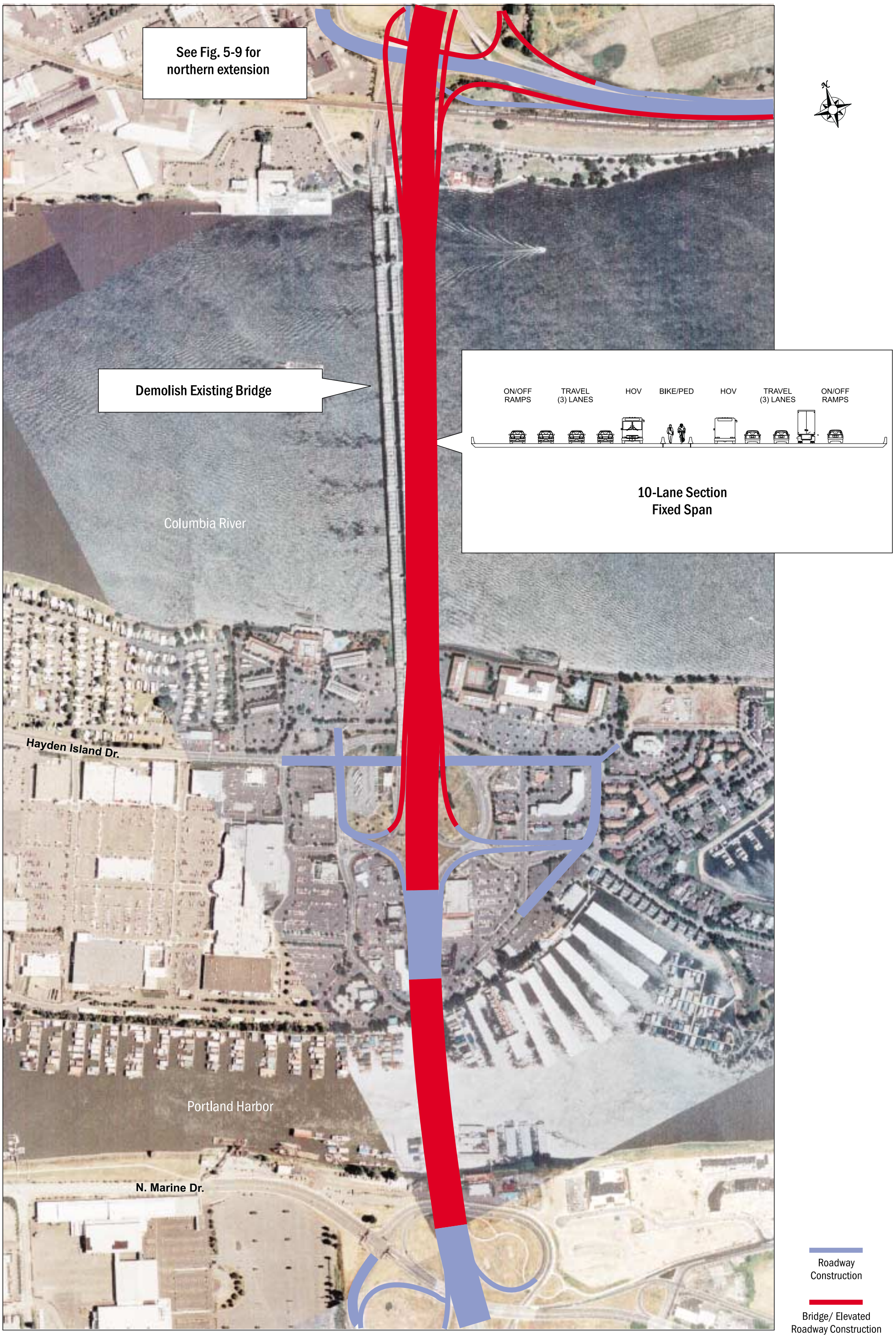


Fig. 5-8. New 10-lane Replacement Bridge

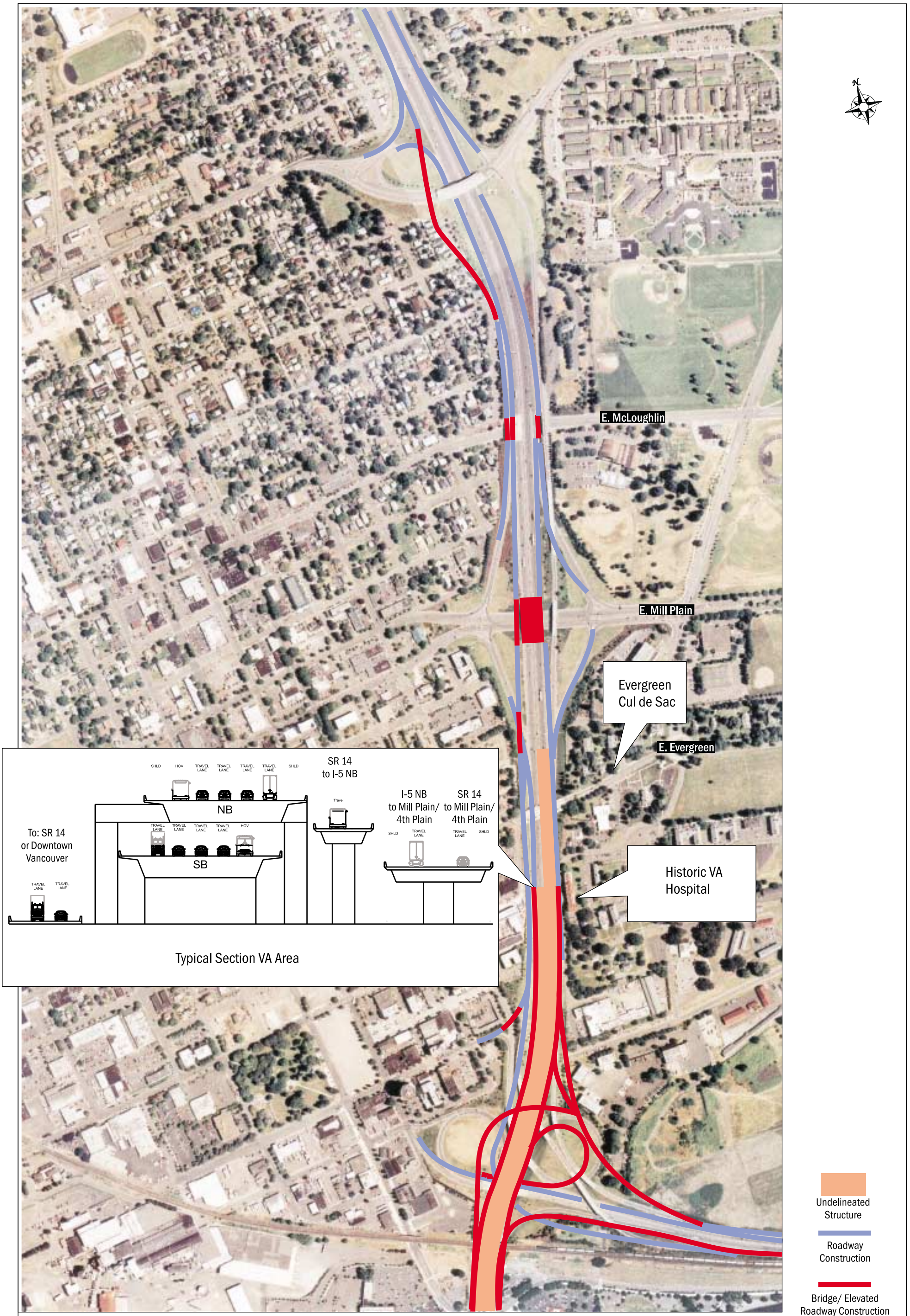
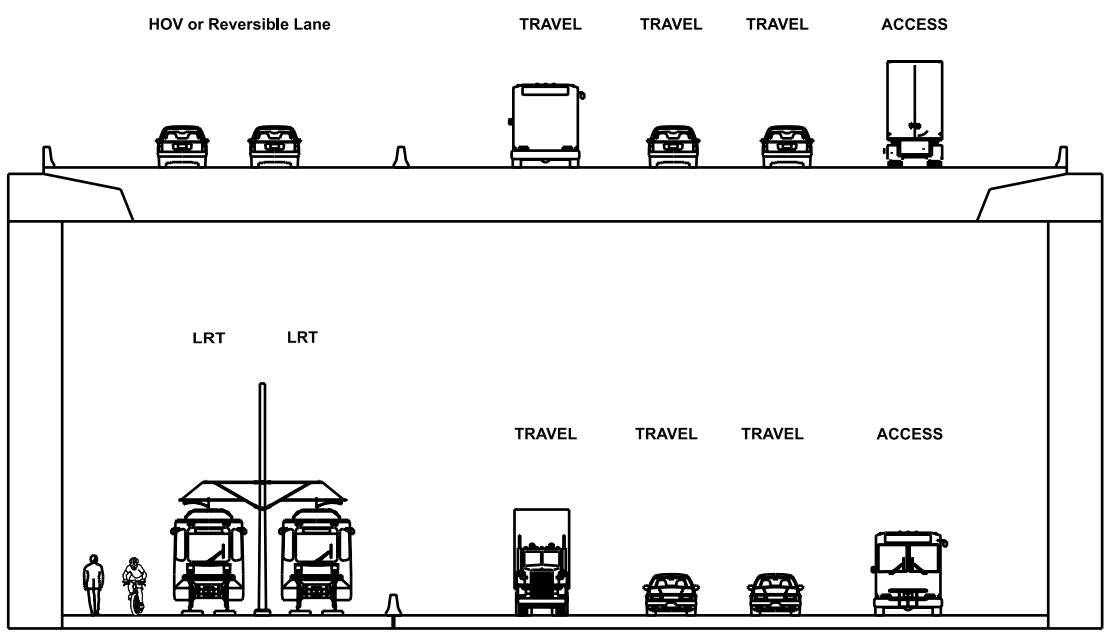


Fig. 5-9. New 10 -lane Replacement Bridge: Transition near VA Hospital

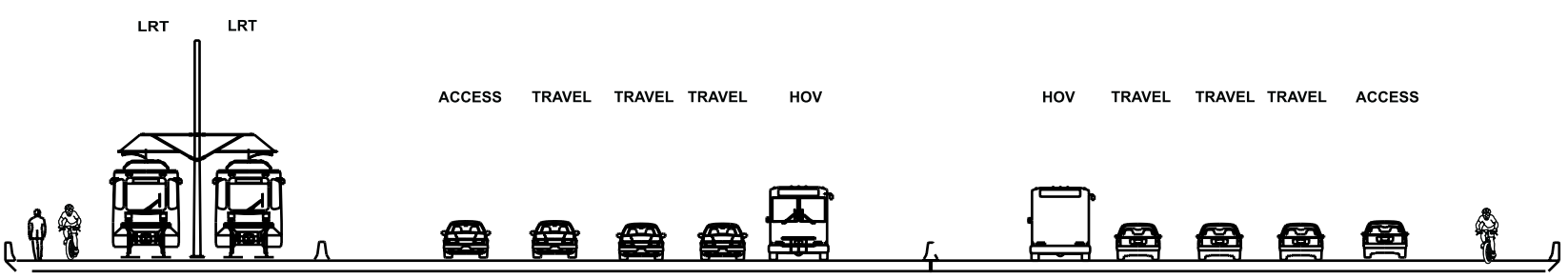
Fig. 5-10. New 10-Lane Replacement Bridge with Separate LRT Bridge

Below are two potential cross sections that demonstrate how light rail could be integrate into a new 10-lane replacement bridge. If a joint use, replacement bridge were preferred by the Task Force, the following are some of the issues that would need to be addressed in an EIS:

- Whether the bridge should be a double deck or single deck design.
- Whether the bridge should be a fixed span or a lift span.
- Location and design of bike and pedestrian facilities.

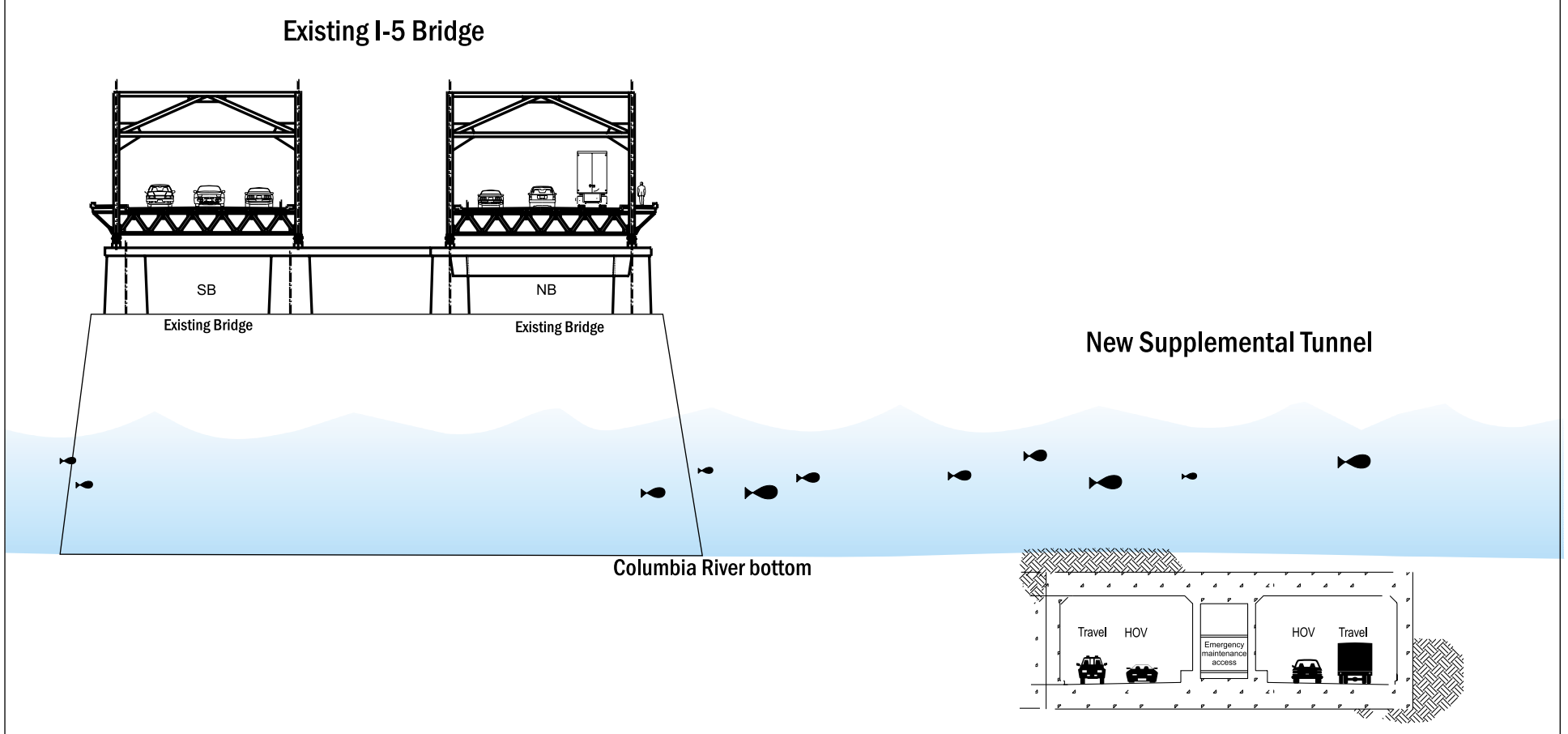


Potential Cross Sections



Potential Cross Sections

Fig. 5-11. New 10-Lane Replacement Bridge with Joint Use LRT



Potential Cross Section

Immersed Tube Tunnel is shown
Tunnel may be bored (deeper) in some sections

Fig. 5-12. New Supplemental Tunnel Concept with Existing Bridges