



US Army Corps
of Engineers

Downtown Reno Alternatives



Truckee River Flood
Management Project

**FPCC Meeting
Virginia Street Bridge Workshop
March 16, 2007**

Definition of Terms

- **NED – National Economic Development Plan :**
 - This is the plan developed by the Corps that creates the greatest benefit to the economy of the United States as a Whole.
 - Benefit categories spelled out in Corps policy
 - Funded with Full Federal Participation
- **LPP – Locally Preferred Plan:**
 - The plan preferred by the local sponsor that included project elements that are not in the NED but have been determined locally to be needed
 - The additional cost to things added to the project that are not included in the NED are paid for by the sponsor
- **FFP – Full Federal Participation:**
 - This means that the Corps would cost share project costs to the total amount allowed by law even if the project elements are not in the NED.
 - Only Congress can authorize full federal funding of a LPP
- **LERRDs – Lands, Easements, Replacement, Relocation, and Disposal areas**
 - Paid for 100% by the local sponsor

Virginia Street Bridge (VSB) Alternatives

- **Replacement – NED:** Remove existing bridge and replace with a clear span type.
 - Non-Fed responsible for all construction and land costs
 - Corps responsible for historic and cultural mitigation costs
- **Bypass & Restore – LPP:** Construct a bypass channel around both abutments. Strengthen abutments, Modify approaches. Cost shared per Corps Policy.
 - Non-Fed Responsible for all costs over the NED plan
 - Corps responsible for mitigation costs and construction costs up to NED costs.
- **Bypass & Restore – FFP:** Same as Bypass & Restore but cost shared at Full Federal Participation (65% Fed-35% non-Fed)
 - Non Fed responsible for LERRDs including modifications to VSB
 - Corps responsible for all other constructions costs
 - Congressional direction needed.

Virginia Street Bridge (VSB) Alternatives

Replacement – NED

Federal Cost	Non-Federal Cost	* NDOT / FHWA	Total
\$5.1 M	\$15.2 M	\$5.0M	\$25.3 M

1. * NDOT Mitigation costs for Center Street Bridge are not included in this estimate.
2. * If the Virginia Street Bridge is replaces NDOT is still responsible to complete the mitigation for the Center Street Bridge

Virginia Street Bridge (VSB) Alternatives

Bypass & Restore – LPP

Federal Cost	Non-Federal Cost	* NDOT / FHWA	Total
\$11.0 M	\$24.4 M	\$5.0M	\$40.4 M

* NDOT Mitigation costs for Center Street Bridge are not paid for by the Corps of Engineers

Virginia Street Bridge Alternatives

Bypass & Restore – FFP

Federal Cost	Non-Federal Cost	* NDOT / FHWA	Total
\$22.1 M	\$13.3 M	\$5.0M	\$40.4 M

* NDOT Mitigation costs for Center Street Bridge are not paid for by the Corps of Engineers

Virginia Street Bridge Alternatives

Alternative	Federal Cost	Non-Federal Cost	* NDOT / FHWA	Total
Replacement	\$5.1 M	\$15.2 M	\$5.0M	\$25.3 M
Bypass & Modify - LPP	\$11.0 M	\$24.4 M	\$5.0M	\$40.4 M
Bypass & Modify – FFP	\$22.1 M	\$13.3 M	\$5.0M	\$40.4 M

NDOT Mitigation costs for Center Street Bridge are not included in this estimate

Downtown Reno Alternatives

- **Replacement (NED):** Remove and replace three existing bridges and replace with a clear span type. (40-50 year Level of Protection)
- **Replacement (FFP):** Same as above but with the floodwalls to provide 100-year Level of Protection. Costs shared as Full Federal participation (65% Fed 35% non-Fed)
- **Bypass & Restore –LPP:** Construct bypass at VSB, restore VSB, replace two bridges and Floodwalls. Non-Fed responsible for all costs over the Corps Policy Complaint Plan (NED)
- **Bypass & Restore – FFP:** Same as Bypass & restore VSB but cost shared as Full Federal Participation (65% Fed-35% non-Fed). **Congressional direction needed**

Downtown Reno Alternatives

Alternative	Federal Cost	Non-Federal Cost	* NDOT / FHWA	Total
Replacement (NED)	\$9.7 M	\$41.5 M	\$5.0M	\$56.2 M
Replacement (100yr) FFP	\$88.3 M	\$54.4 M	\$5.0M	\$147.7 M
Bypass (100yr) LPP	\$9.7 M	\$150.8 M	\$5.0M	\$165.5 M
Bypass (100yr) FFP	\$104.3 M	\$56.2 M	\$5.0M	\$165.5 M

1. * NDOT Mitigation costs for Center Street Bridge are not included in this estimate.
2. * If the Virginia Street Bridge is replaced NDOT is still responsible to complete the mitigation for the Center Street Bridge

Summary

- FPCC has determined to Bypass & Restore Virginia Street Bridge if feasible.
- Cost to Washoe County and partners depend how the project is authorized.
- Determining the feasibility of the Bypass & Modify Option is an on-going process.