



ALTERNATIVE ANALYSIS MATRIX



**Local Concept Development Study for Bridge C0609
Picket Place Bridge over South Branch of Raritan River
Branchburg and Hillsborough Townships, Somerset County, New Jersey**

Criteria →	Satisfies Purpose & Need	Impacts to Picket Place Traffic during Construction					Total Construction Duration	Permits Required			Right-of-Way Impacts			Estimated Construction Cost w/o ROW
		Traffic Control	Open To:			Maintains Emergency Services Support		FWW/FHA/SESC	SWM	Mitigation	Easements	Acquisitions	Estimated Cost	
Veh.	Bikes		Peds.											
Alternative 1 - No-Build ¹	NO	N / A					N / A	N / A			N/A			N / A
Alternative 2 - Rehabilitate Superstructure and Substructure using Detour	YES	Detour	NO	NO	NO	NO	15-18 MO.	✓	✓		Temporary	NO	\$50,000	\$7.4M
Alternative 3 - Replace Superstructure, Rehabilitate Substructure using Staged Construction	YES	1 Lane Alternating (Stages 1 and 2)	YES	YES	NO	YES	20-27 MO.	✓	✓		Temporary	NO	\$50,000	\$8.6M
Alternative 4 - Replace Superstructure, Rehabilitate Substructure using Detour	YES	Detour	NO	NO	NO	NO	15-18 MO.	✓	✓		Temporary	NO	\$50,000	\$7.5M
Alternative 5 - Bridge Replacement, Staged Construction Maintaining 1 Lane	YES	1 Lane Alternating (Stages 1 and 2)	YES	YES	NO	YES	18-24 MO.	✓	✓		Temporary	NO	\$50,000	\$9.7M
Alternative 6 - Bridge Replacement, Staged Construction Maintaining 2 Lanes ²	YES	1 Lane Alt. (Stage 1) 2 Lanes (Stage 2)	YES	YES	NO	YES	20-27 MO.	✓	✓	✓	Temporary and Permanent	YES	\$75,000	\$13.7M
Alternative 7 - Bridge Replacement, Off-Line Construction	YES	2 Lanes	YES	YES	YES	YES	18-24 MO.	✓	✓	✓	Permanent and Permanent	YES	\$100,000	\$13.1M
Alternative 8 - Bridge Replacement, Detour	YES	Detour	NO	NO	NO	NO	12-15 MO.	✓	✓		Temporary	NO	\$50,000	\$8.5M

NOTES:

- County continues to incur regular maintenance costs. Bridge deterioration continues.
- Alternating traffic is only required in the first construction stage.

PERMITS LEGEND:

- FWW : NJDEP Freshwater Wetlands.
- FHA : NJDEP Flood Hazard Area.
- SESC : Somerset-Union Soil Conservation District certification.
- SWM : NJDEP Stormwater Management compliance
- Mitigation : Mitigation required for Wetlands and/or Riparian Zone impacts.

NOTE:
THIS DRAWING IS IN DRAFT FORM. PLEASE DO NOT REPLICATE. IT HAS BEEN RELEASED AS CLASSIFIED ADVISORY, CONSULTATIVE AND DELIBERATIVE MATERIAL PURSUANT TO N.J.S.A. 47:1A-6. IT IS INTENDED FOR REVIEW AND COMMENT PURPOSES ONLY. ANY QUESTIONS, PLEASE CONTACT: LILIH. TSU, SOMERSET COUNTY PRINCIPAL ENGINEER II, TEL. 908-231-7079, EMAIL: tsu@co.somerset.nj.us

Recommended Preliminary Preferred Alternative (PPA)

