



ALTERNATIVE ANALYSIS MATRIX

**Local Concept Development Study for Bridge K0607
New Brunswick Road over Al's Brook
Franklin Township, Somerset County, New Jersey**

Criteria →	Satisfies Purpose & Need	Impacts to New Brunswick Rd. Traffic during Construction		Accelerates Bridge Construction	Total Construction Duration	Permits Required						Right-of-Way Impacts				Estimated Construction Cost	Other
		Open to Vehicles/Bikes/Peds.	Duration of Closures			FWW	FHA	SESC	D&RCC	SWM	Mitigation	Temporary Easements	Permanent Easements	Fee Parcels	Estimated Cost		
Alternative 1 - No-Build	NO	N / A		N / A	N / A	N / A						N / A				N / A	County continues to incur maintenance costs.
Alternative 2 - On-Line, Temporary Bridge	YES	YES	8 weekends	NO	10 Months	✓	✓	✓	Exempt	N / A	N / A	YES UTILITY ESM'T 10,725 SF CONSTR. ESM'T 8,150 SF	YES BRIDGE ESM'T 11,800 SF	NO	\$25,000	\$2,390,000	Requires Contractor to work adjacent to, and below, active traffic.
Alternative 3 - On-Line, Accelerated Construction	YES	NO	3 weeks	YES	4 Months	✓	✓	✓	Exempt	N / A	N / A	YES UTILITY ESM'T 10,725 SF CONSTR. ESM'T 11,775 SF	YES BRIDGE ESM'T 11,800 SF	NO	\$25,000	\$1,390,000	Most economical. Shortest duration of traffic impact.
Alternative 4 - Off-Line Construction	YES	YES	1 weekend	NO	12 Months	✓	✓	✓	✓	✓	✓	YES CONSTR. ESM'T 13,225 SF	NO	YES 4 ACRES (174,000 SF)	\$755,000	\$3,100,000	Greatest impacts and highest cost. Requires residential relocation. Improves intersection of New Brunswick Rd. / Cedar Grove Lane.

NOTES:

1. Anticipated Duration of Construction Contract excludes time to temporarily or permanently relocate utilities.
2. Estimated Construction Costs includes 25%± contingencies.
3. Estimated Right-of-Way cost for Alternative 4 does not include any cost associated with resident relocation.

PERMITS LEGEND:

- FWW : NJDEP Freshwater Wetlands.
- FHA : NJDEP Flood Hazard Area.
- SESC : Somerset-Union Soil Conservation District certification.
- D & RCC : Delaware and Raritan Canal Commission review.
- SWM : NJDEP Stormwater Management compliance
- Mitigation : Mitigation required for Wetlands and/or Riparian Zone impacts.

NOTE:

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