Accelerated Bridge Construction
2008 AASHTO Spring Meeting

ABC Definition
- Accelerated Bridge Construction, where the elements are built off-site and away from traffic.

Benefits of ABC
- Minimized traffic disruption – reduced from months to days
- Improved work zone and worker safety
- Improved product quality – controlled environment, cure times, easier access, etc.

Family of ABC
- Precast Elements – Deck panels, precast footings/caps, post tension girders/columns/bents
- Prefab Sections – Pivoting, launching, segmental bridges
- Prefab Bridges – Skidding, SPMT, heavy lift cranes, strand jacks

SPMT Definition
- Self-Propelled Modular Transports are multi-axle, computer-controlled platform vehicles able to move heavy loads vertically and in any horizontal direction with precision to within millimeters.

SPMT Project and User Cost Savings
- Fewer/shorter maintenance-of-traffic setups
- Shorter hours for law enforcement officers
- Smaller owner and contractor crews with fewer shift changes
- No temporary-detour construction
- No repair of long-term detours on existing roads
- Reduced onsite time for engineering and inspection requirements
- Reduced construction-related delay, detour and congestion costs

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