

FLH Office of Bridges and Stuctures

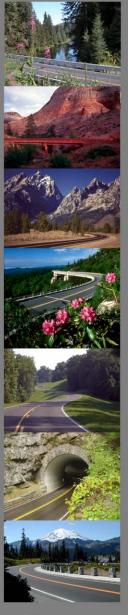
Presentation Number: P15-6799

ABC at Federal Lands Highway Division and the Seney Bridge Replacement Project

Rich Pakhchanian, PE EFLHD Branch Leader

Phil Boinske, PE Bridge Design Team Leader





FLH Office of Bridges and Structures

- Eastern Federal Lands Highway Division EFLHD
 Bridge Staff 29
- Central Federal Lands Highway Division CFLHD Bridge Staff - 9
- Western Federal Lands Highway Division WFLHD Bridge Staff - 4

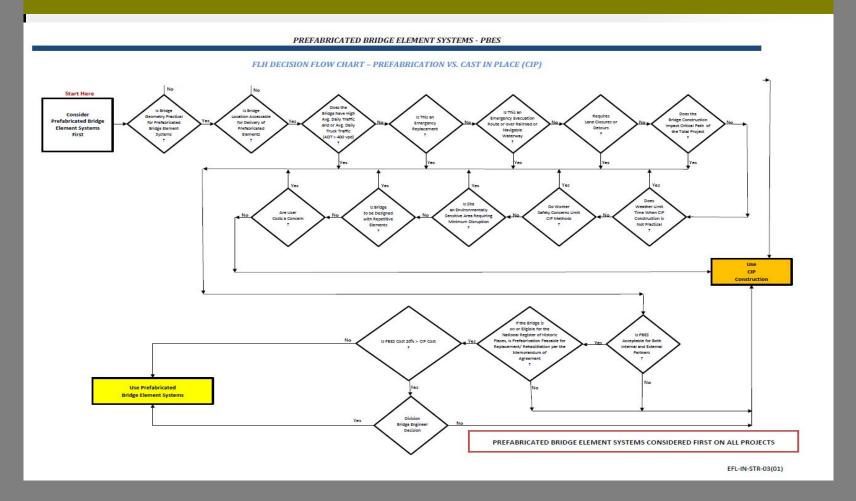


# of PBES Structures Oct , 2014				
	Division			
	CFL	EFL	WFL	Total
Under Construction	8	10	3	21
Under Design	14	6	3	23
Total	22	16	6	44



Federal Lands Highway Office of Bridges and Structures Policy

Prefabricated Bridge Element Systems considered first on all projects!









- Emergency Relief Funding Hurricane damage
- •2 Bridges Bridge length 70' (3 spans each)
- HPC in remote location
- 1 week to drive piles
- 2 weeks to erect superstructures





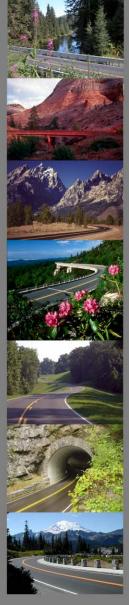




Sabine National Wildlife Refuge, LA



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Sequoia National Park, Ca.

- 34' single span
- Cost effective design
- NPS forces built bridge
- Construction 3 months with 6 people









Wolf Trap National Park Pedestrian Bridge Wolf Trap National Park for the Performing Arts, Virginia



- Prefabricated in 3 sections
- 15 minute full closure
- Main span erected in 4 hours
- Normal construction 25 days



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Vieques National Wildlife Refuge, Virgin Islands



- 70' Span
- Precast worked well for the remote location
- •GRS-IBS Abutments
- Voided slabs



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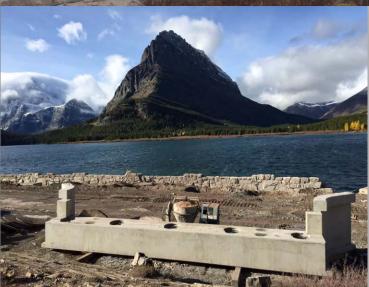
Glacier National Park, Montana

•Bridge length: 85'-0"

 Precast due to extreme weather conditions

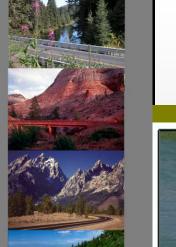
Entire bridge precast

•Construction – Sept 29 – Nov. 11, 2014





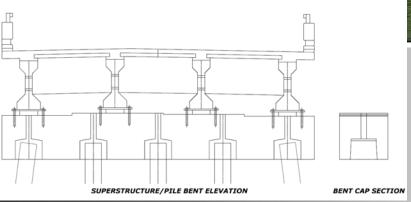




Fort Pulaski Bridge, Georgia



- Bridge length: 1295' 70'/105'spans
- Entire bridge precast
- Partial depth deck panels
- Railing precast (under study)
- Construction 1 Calendar year





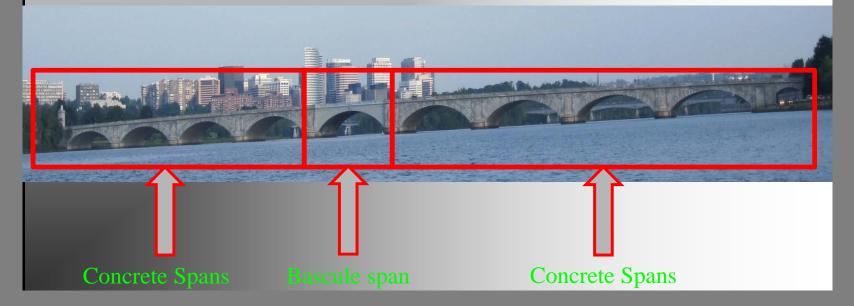


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Arlington Memorial Bridge, Washington DC

- Movable Steel Truss Bascule Span
- ◆ Total length of the bridge: 2,108 feet
- Bascule span:
 - 216 feet (Main Trunnion to Main Trunnion)
- Approach Spans:
 - 10 Total (5 on each side of bascule)
- Curb to curb: 60 feet (6 lanes)
- Sidewalk width 17 feet





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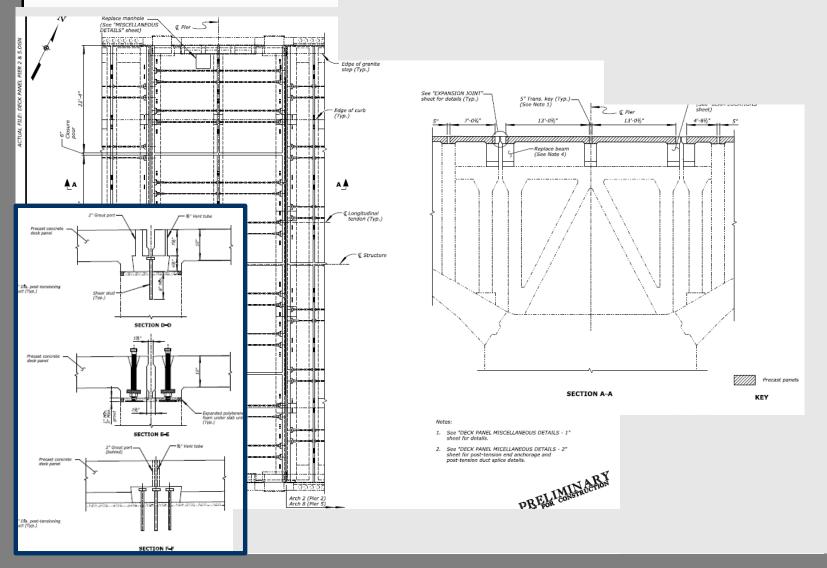






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Arlington Memorial Bridge, Washington DC







GWMP Dead Run and Turkey Run Bridges

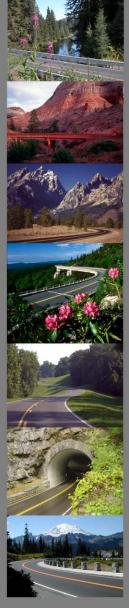
- Constructed in the year 1998
- •ADT 20,000
- Weekend closures
- 100'-150' erected per weekend
- Construction 1 season for 3 bridges. 300'-400' in length (Each)



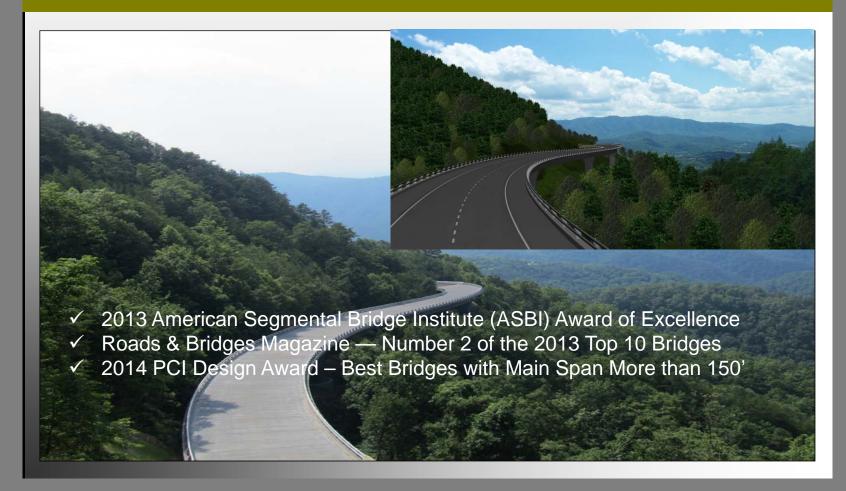




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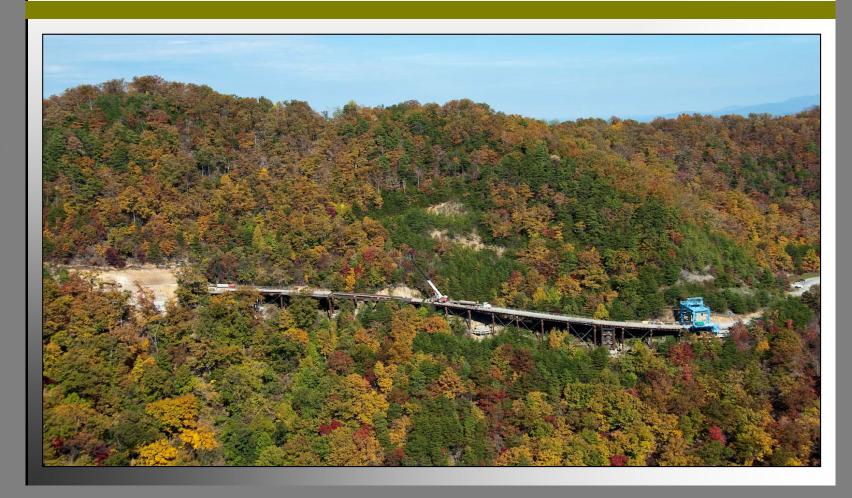
Foothills Parkway Bridge 2 Great Smoky Mountains National Park, Tennessee



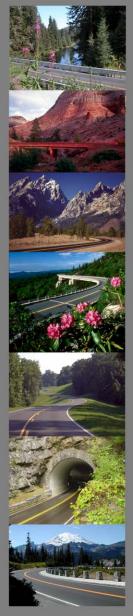


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Foothills Parkway Bridge 2 Great Smoky Mountains National Park, Tennessee













FEDERAL LANDS HIGHWAY BRIDGE

Questions?



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