

Accelerated Bridge Construction Examples

- We have been using ABC methods to build bridges since 2007 on approximately 25 projects.
- We used this approach in response to Tropical Storm Irene
- The following slides show some examples of past projects

Accelerated Bridge Construction



Driven steel piles with precast concrete cap for abutment

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The first of three Precast Concrete Caps being placed

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Precast concrete Abutment in place and ready for Superstructure

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Precast Concrete NEXT Beam lifted into place

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The second NEXT Beam being placed

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Three NEXT Beams in place with the final unit ready

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Precast Bridge Unit (PBU) delivered to site

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Precast Bridge Unit (PBU) lifted onto abutments

Accelerated Bridge Construction



Precast Bridge Units (PBUs) connected together

Rigid Frame Examples

- Generally arch shapes and flat-top frames are both allowed
- There are many different configurations available

Rigid Frames



Site is dewatered and excavated for footing

Rigid Frames



Precast footing section lifted into position

Rigid Frames



Footing components are connected together

Rigid Frames



Abutment is backfilled and compacted

Rigid Frames



Precast frame is lifted into position on the abutment

Rigid Frames



More sections added – Note dewatering pipe

Rigid Frames



Top of frame is waterproofed

Rigid Frames



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Gravel roadway surface is placed over frame section

Rigid Frames



Side view of frame with guardrail attached

Building Bridges pre-1995

