#### **INSTA-SPAN BRIDGE SYSTEM**

Insta-Span Bridge System utilizes standardized details including modular precast concrete deck panels supported on a multiple steel rolled beam framing system. The transverse deck panel joints are connected in the field using a simple double female "shear key" filled with an epoxy, non-shrink grout. This system provides an economical alternative for most bridge replacement projects and can be installed in a fraction of the time compared to conventional on-site construction methods. Each project is custom designed to meet a customer's specific site constraints including the use of existing abutments and available construction depths.

#### SYSTEM ADVANTAGES

Cost effective – standardized details High quality factory built components Ease and speed of installation Minimizes construction duration Custom design – provides flexibility Low maintenance costs Engineering costs included in product cost



A set of erection/shop drawings and stamped design calculations are provided for review and approval prior to fabrication and delivery of each order. Insta-Span can accommodate spans up to 100 feet and skew angles up to 30 degrees. To minimize future maintenance and protect the owner's investment, we recommend the installation of a waterproofing membrane and an asphaltwearing surface over the precast deck panels. Insta-Span can incorporate standard DOT railing systems or a custom designed system to meet a customer's specific requirements.

#### **DESIGN CRITERIA**

AASHTO Live Load: HL-93 Minimum Concrete Ultimate Strength: 4500 psi Minimum Steel Yield Strength: 50,000 psi Concrete Cover for Deck: 2.5 inches (top), 1.5 inches (bottom) Future Wearing Surface Allowance: 35 psf

For More Information Contact: Jim Bumen at 740-663-2659 Scioto Valley Precast Co., 3218 S. Bridge Street, Chillicothe, Ohio 45601



## SCIOTO VALLEY PRECAST

American Made Products From A Family Owned Company Phone: 740-663-2659 Fax: 740-663-2017 Web: www.sciotovalleyprecast.com



# PICK A SYSTEM

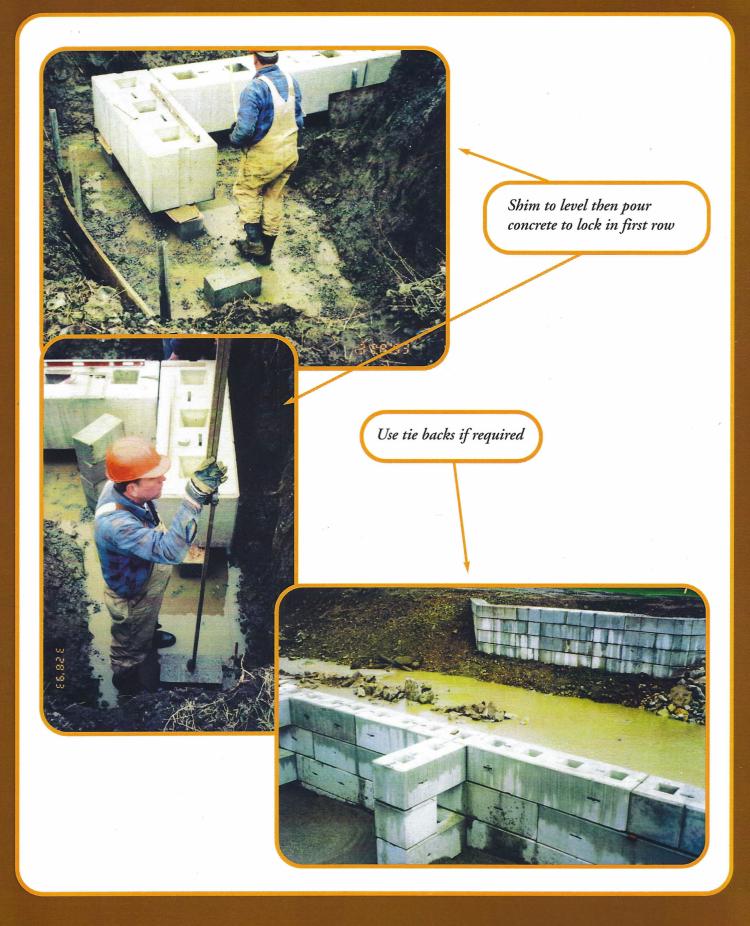
#### INSTANT PRE-CAST BRIDGE

Pre-cast deck beams up to 30' long in 4' wide increments
Ready to drive on that day

- Reuse existing abutments
  - Use pre-cast abutment blocks
    - Guardrail options



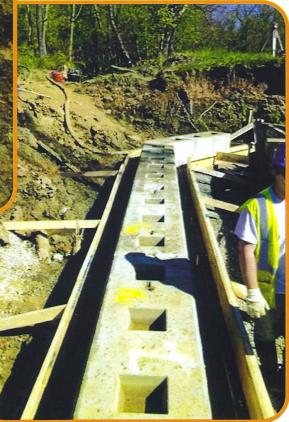
Preparing foundations and setting first row of blocks



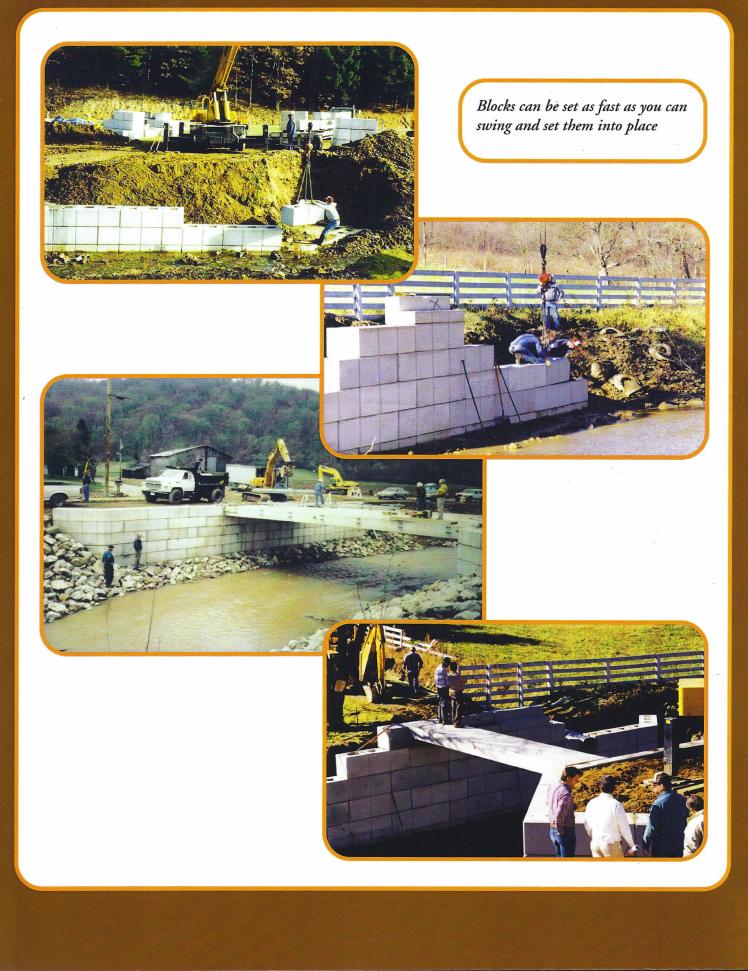
Set blocks on concrete pad and pour concrete around to lock them in

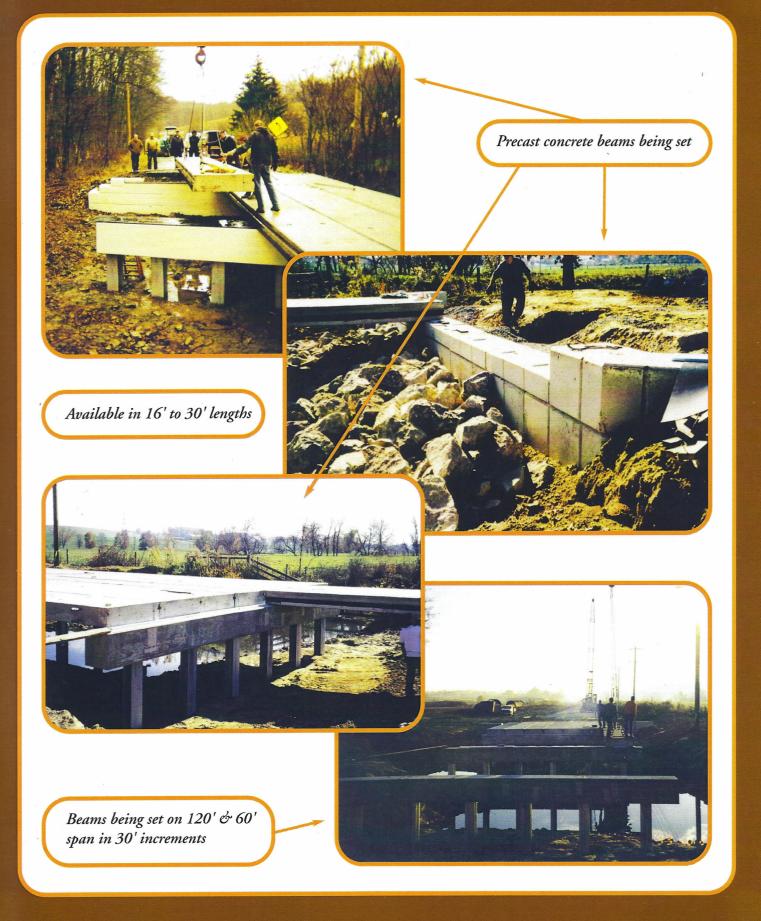






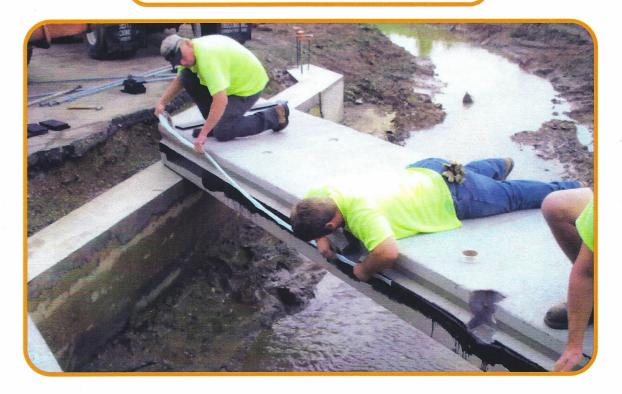
After first row is installed, the remaining blocks can be set







Beams being set on reconditioned existing abutments



Most decks can be placed in a matter of hours not days

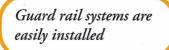
Precast Panels poured under controlled conditions being set on galvanized steel beams, saving the cost of forming, expensive delays and curing time.

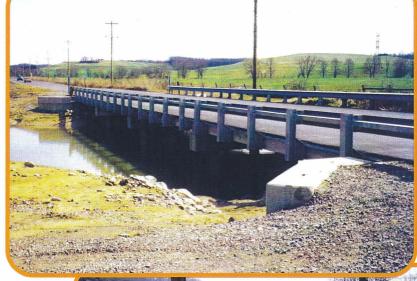
**BRIDGE DESIGN NOTES** 

AASHTO HS-25 [LFD Design] or

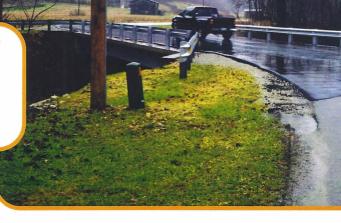
AASHTO HL-93 [LRFD Design]

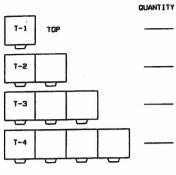


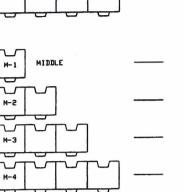


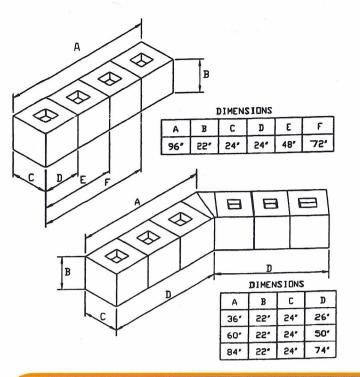


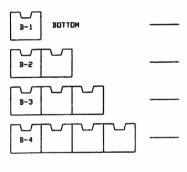
Completed in a fraction of the time, months of onsite work, travel time and weather delays are a thing of the past











SPECIAL

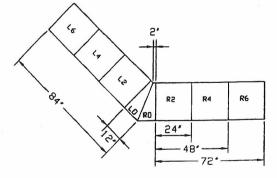
S-1

S-5

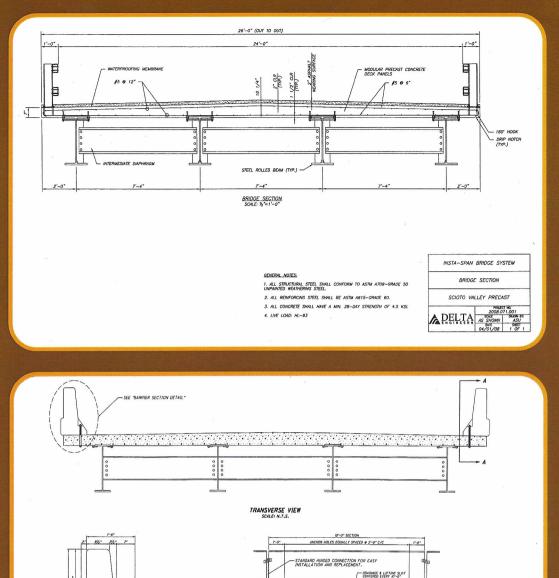
S-3

S-4





Our pre-cast blocks are designed for easy layout and quick installation. Bridge abutments, wing walls, retaining walls, and aggregate storage are some of your options



#### SCIOTO VALLEY PRECAST YOUR ONE STOP PRECAST CENTER

Scale As Noted

Date

Project

LONGITUDINAL VIEW, SECTION "A-A"

INSTA-SPAN BRIDGE SYSTEM WITH 36" BARRIER

(PLAN VIEW, ELEVATIONS & DETAILS)

SCIOTO VALLEY PRECAS 3218 S. BRIDGE STREET CHILLICOTHE, OH 4560

P DIA. H.S. ANCHOR BOLT:

BARRIER SECTION DETAIL

S-D.01

Data

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