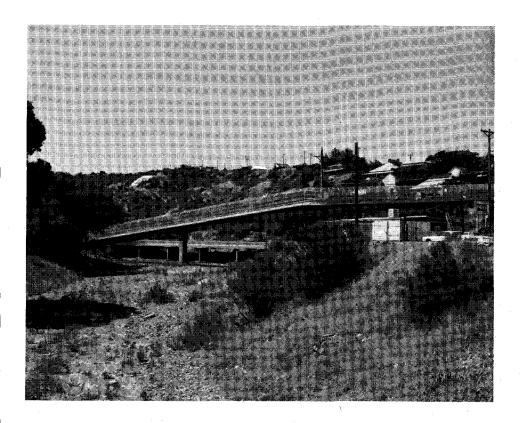


Central School Pedestrian Overpass

This four-span precast prestressed concrete box beam pedestrian overpass crosses Route 60 on the Phoenix-Globe Highway in Globe, Gila County, Arizona. The facility provides pedestrians with a safe crossing over both U.S. Highway 60 and Pinal Creek. The bridge connects the Central School parking lot with a convenient discharge point in the city.

The structure has four spans [33.0, 96.7, 96.7, 91 ft (10.1, 29.5, 29.5, 27.7 m)] and an overall length of about 338 ft (102 m). Four precast prestressed concrete box beams are used with a cantilevered top slab. Elevation and section details of the structure are given on the next spread pages. It will be noted that in the pretensioned girders some of the strands were debonded.



The following are the main dimensions of the box beams:

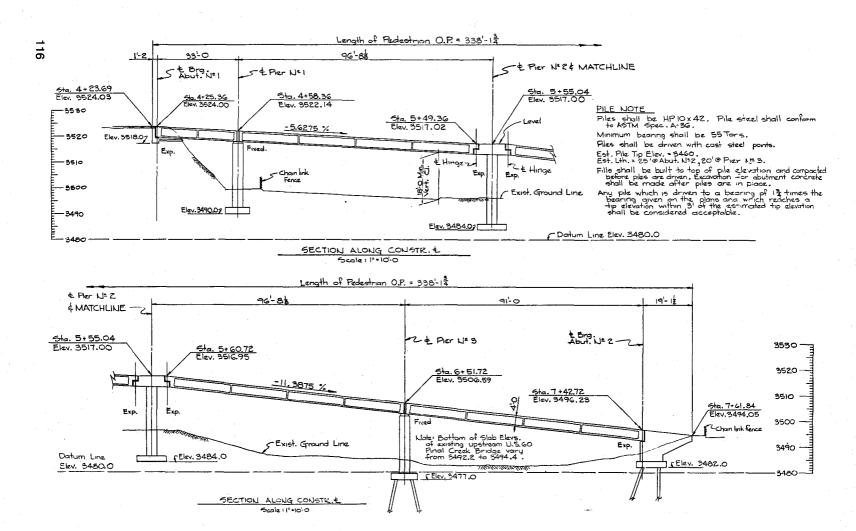
Depth: 4 ft (1.2 m); width: 4 ft (1.2 m). Cantilevers: Two at 3 ft (0.91 m). Surface width (total): 10 ft (3.05 m).

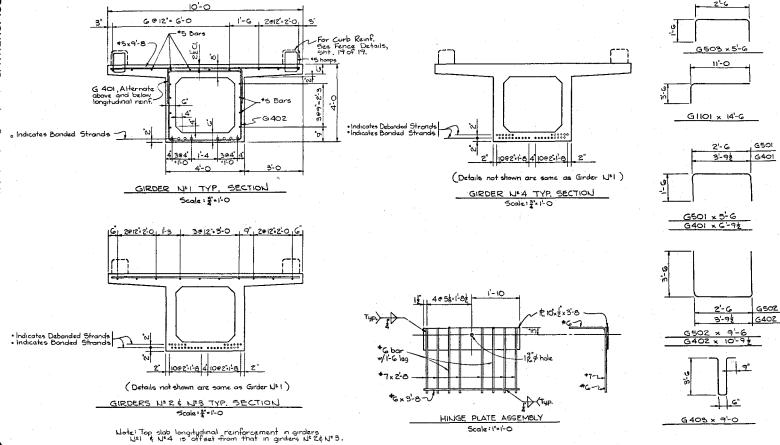
Length: 33.0, 90.92, 90.92, 91.0 ft (10.1, 27.7, 27.7, 27.8 m).

The precast elements are seated on a conventionally reinforced concrete cantilevered section at Pier No. 2. This section provides a 53-degree turn in the structure while maintaining the lines of the prestressed concrete components. The cantilevered top slab affords full composite action of the complete section for both dead load and live load, and minimized on-site forming requirements over traffic and the creek.

The precast prestressed superstructure elements provide a durable, maintenance-free bridge built with minimum traffic control and detour requirements, obviating the need for falsework within both the existing traffic pattern and Pinal Creek which frequently flows with ferocity.

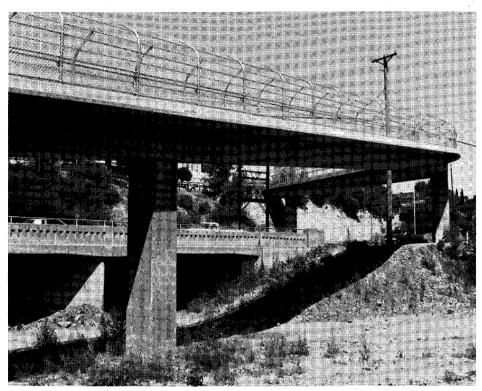
The structure was completed on schedule in February 1981.





Note: Debonded Strands to be debonded for G-O from & Brg. on each end of girders shown.

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CENTRAL SCHOOL PEDESTRIAN OVERPASS, Route 60 on Phoenix-Globe Highway, Globe, Arizona.

Credits

Engineer and Owner: Structures Section, Arizona Department of Transportation, Phoenix, Arizona.

Contractor: C. S. McCrossan, Inc., Phoenix, Arizona.

Precast Prestressed Concrete Manufacturer: TPAC Division of the Tanner Companies, Phoenix, Arizona.