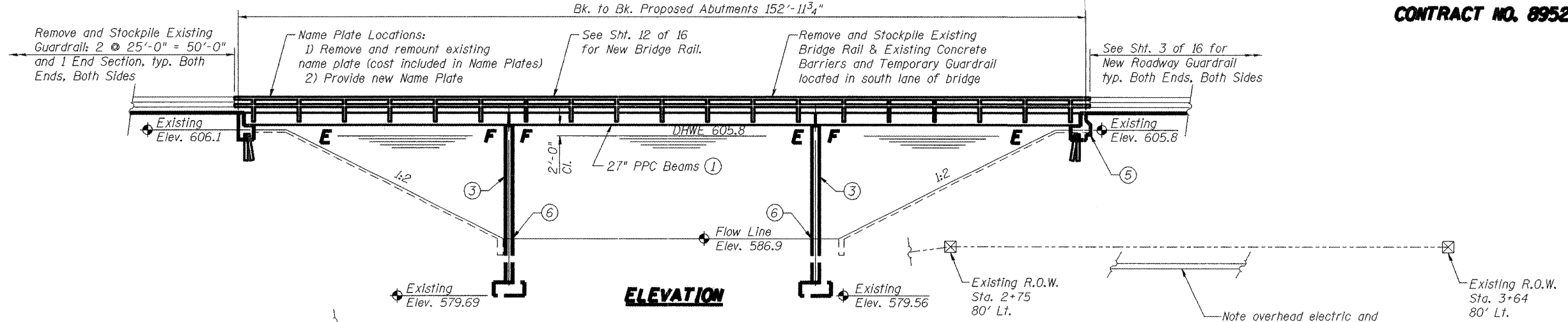


Benchmark: USGS Bronze Tablet "3RLJ 1977" atop southwest wing wall of existing bridge, El. 610.008 (1929 Datum)

Existing Structure SN072-3101 was built in 1977 as Section 73-00114-00-BR and is a 3 Span, P.P.C. Deck beam bridge, 152'-0" back to back of existing abutments by 33'-0" out to out width, supported on pile bent abutments and hammerhead piers founded on shale bedrock.

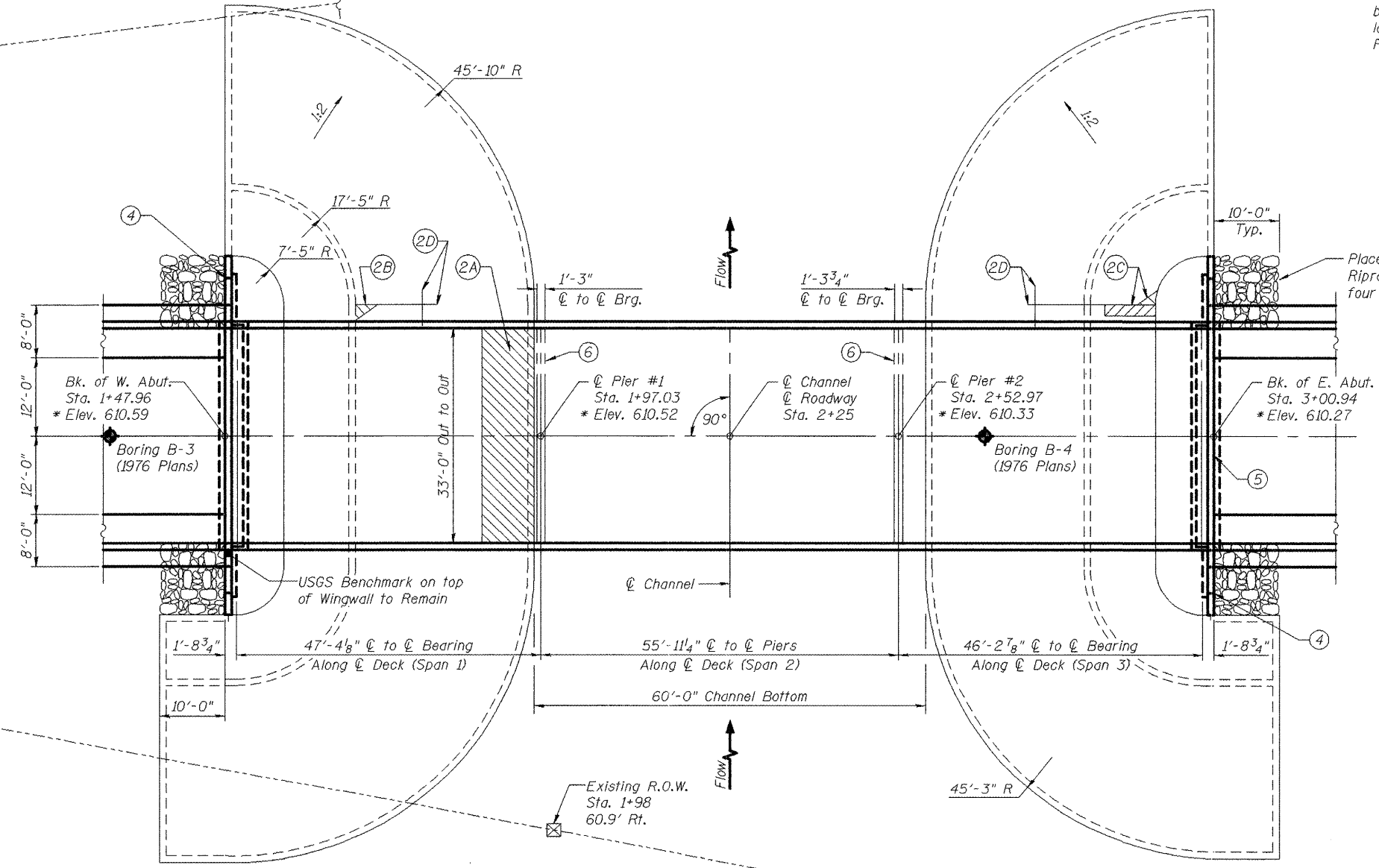
Proposed work includes superstructure removal and replacement on existing piers and abutments.

Salvage: Contractor shall remove existing steel bridge rail, roadway guardrail, concrete barrier sections, and terminal sections and safely stockpile on-site as directed by the Engineer, for relocation by County. Cost shall be included in Removal of Existing Superstructures.



**CONCRETE REPAIRS**

- ① Remove existing 27" PPC deck beams, furnish and install new deck beams.
  - ② Repairs to 6" concrete slope wall: See also Sht. 5 of 16.
    - A. saw cut, remove and replace 8' x 30'±
    - B. saw cut, remove and replace 2' x 2'±
    - C. saw cut, remove and replace 1' x 1'± and 1' x 6'±
    - D. rout, clean, and seal concrete joints and cracks.
  - ③ Pier concrete repairs. See Sht. 14 of 16.
  - ④ Repair concrete at abutment wing wall joints. See Sht. 15 and 16 of 16.
  - ⑤ Build back wall for East Abutment (omitted during original 1977 construction). See Sht. 16 of 16.
  - ⑥ Underwater Structure Excavation Protection for Pier and Slopewall Repairs. See Sht. 14 of 16.
    - Location 1 at Pier #1
    - Location 2 at Pier #2
- \* Proposed P.G. Elevations shown were determined based on surveyed top of curb elevations to align top of existing and proposed P.C.C. deck beams, thus:  
 P.G. = Top of Curb - 12" curb + 3<sup>1</sup>/<sub>2</sub>" crown + 3<sup>1</sup>/<sub>2</sub>" overlay.



**WATERWAY INFORMATION**

(from 1976 Plans, built 1977)

Note: Elevations have been adjusted from 1976 plans by addition of 9.79 ft. for conformance with USGS benchmark on site.

Drainage Area = 437 sq. mi.

Present & Proposed Opening = 4007 Sq. Ft.  
 Bridge Opening (1754 Sq. Ft.)  
 Over Roadway (2253 Sq. Ft.)

Design High Water Elevation (15 Year Flood Frequency) = 605.8

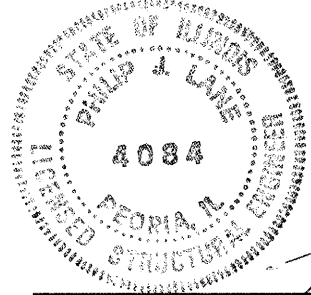
Discharge (15 Year Flood Frequency) = 16,000 CFS

High Water Elevation (100 Year Flood Frequency) = 608.4

Discharge (100 Year Flood Frequency) = 23,450 CFS

**GENERAL PLAN & ELEVATION**  
**SPOON RIVER ROAD**  
**STATION 2+25.00**

DESIGNED	PJL
CHECKED	LLV
DRAWN	MGM
CHECKED	PJL



Philip J. Lane, Illinois Licensed Structural Engineer No. 4084  
 Lic. Expires: 11/30/10

4/10/09  
 Date

**AECOM**

111 NE Jefferson Ave.  
 Peoria, Illinois 61602  
 Ph: 309.676.8464  
 Fax: 309.676.5445  
 IL Design Firm Reg. No. 184-001518  
 www.aecom.com

HWY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH R15	08-00092-01-BR	PEORIA	16	4
STRUCTURE NO. 072-3101				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	BROS-143(050)	