

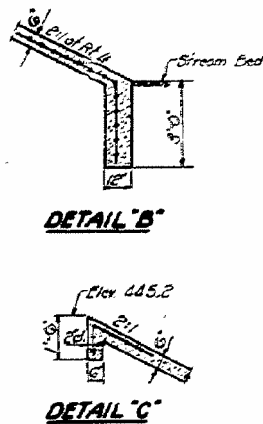
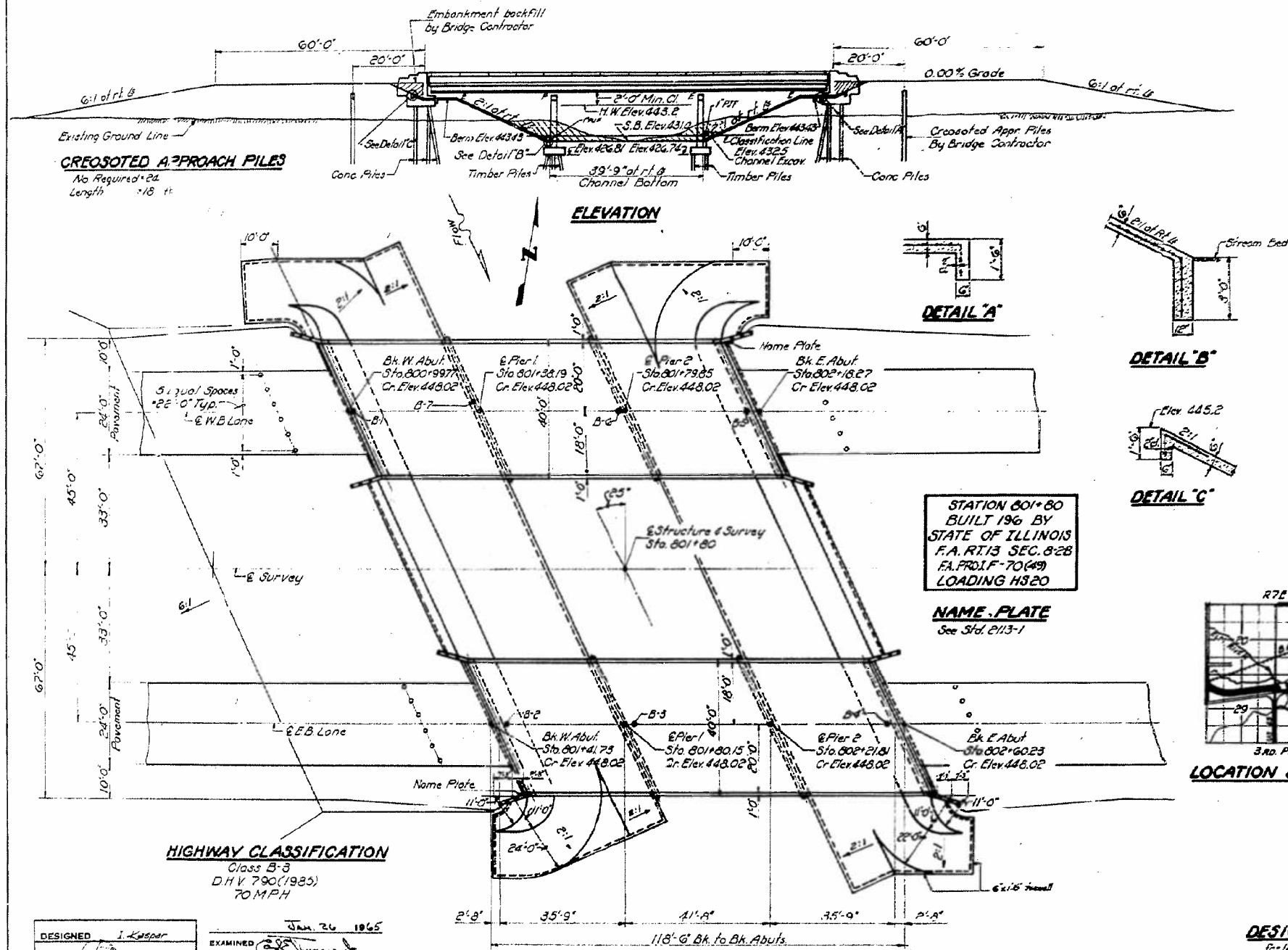
B.M. SAW in roof of 32' C x 4' 230
 L1 Sta 800+52 Elev 46.87
 No Existing Structure

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

| | | | | | |
|-------|------|------|----|---|-----------|
| FA 13 | B-28 | CLAY | 24 | 5 | 11 SHEETS |
|-------|------|------|----|---|-----------|

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and wing walls must be absolutely free of chert, flint, limonite, lignite and soft sandstone.
 The concrete floor slab shall be finished in accordance with Article 519 of Standard Specifications.
 Slope wall shall be reinforced with welded wire fabric G-40 mesh, weighing 36# per 100 sq. ft.
 Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.
 All reinforcement shall be lapped 20 diameters unless otherwise noted.
 All structural steel shall conform to ASTM Specifications for Structural Steel designation A-36.
 Rivets 3/8" open holes 1/2" unless otherwise noted.
 Anchor bolt shall be set before riveting diaphragms over supports.
 The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint; the contact surfaces shall be given one coat of red lead paint; Anchor studs shall not be painted.
 Expansion guards are included in the quantity of Structural Steel. Est. Weight = 4,620 lbs.
 Except as otherwise provided all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specification.
 The contractor shall drive two concrete test piles in a permanent location: one at W. Abutment W.B.L., one at E. Abutment E.B.L., and two timber test piles one at Pier 1 West Bound Lanes, and one at Pier 2 E.B.L. as directed by the Engineer before casting the remainder of piles.



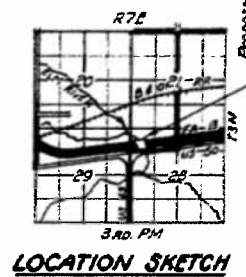
STATION 801+80
 BUILT 1965 BY
 STATE OF ILLINOIS
 F.A. RT.13 SEC. 8-28
 F.A. PROJ. F-70(49)
 LOADING HS20

NAME PLATE
 See Std. E113-1

TOTAL BILL OF MATERIAL

| Items | Unit | Super | Sub | Total |
|-----------------------------------|----------|---------|--------|---------|
| Class B Excavation For Structures | Cu. Yds. | | 432 | 432 |
| Channel Excavation | Cu. Yds. | | 1670 | 1670 |
| Structural Steel | Lbs. | 165,860 | | 165,860 |
| Class A Concrete | Cu. Yds. | | 356.2 | 356.2 |
| Class X Concrete | Cu. Yds. | 255.0 | 142.8 | 423.8 |
| Aluminum Handrail | Lin. Ft. | | 460 | 460 |
| Reinforcement Bars | Lbs. | 57,970 | 25,540 | 83,510 |
| Concrete Piles | Lin. Ft. | | 1080 | 1080 |
| Test Pile (Concrete) | Each | | 2 | 2 |
| Crossed Piles | Each | | 2 | 2 |
| Test Piles (Timber) | Each | | 2 | 2 |
| Name Plates | Each | | 2 | 2 |
| Slope Wall | Sq. Yds. | | 1,920 | 1,920 |
| Protective Coat | Sq. Yds. | 1,130 | | 1,130 |
| Bridge Seat Sealant | Lump Sum | | | 1.5 |
| Timber Piles | Lin. Ft. | | 2067 | 2067 |
| Class A Excavation For Structures | Cu. Yds. | | 125 | 125 |

* Includes Excavation for Slope Wall.
 ** At Abutments.



HIGHWAY CLASSIFICATION
 Class B-3
 D.V. 790 (1985)
 70 MPH

DESIGNED: I. Kusper
 CHECKED: J. Albrecht
 DRAWN: W.E. Dickerson
 EXAMINED: J. Albrecht
 PASSED: H. S. Altman
 APPROVED: J. Albrecht

PLAN

Note: For Design Data see sheet B

WATERWAY INFORMATION

Drainage Area: 7738 Acres
 Character: Rolling, Hilly, wooded & cultivated
 Required Opening: 720 Sq. Ft.
 Proposed Opening: 720 Sq. Ft.

DESIGN STRESSES

F_c = 1400 psi (Super & Sub)
 F_s = 20,000 psi (Struct.)
 F_s = 20,000 psi (Rein.)
 V_c = 75 psi (F₁)
 n = 10
 Allowable & Defl. Span/1000
 LOADING HS20-44

PROJ. F-70(49)
GENERAL PLAN & ELEVATION
 F.A. RT.13 SEC. 8-28
 OVER ELM RIVER
 CLAY COUNTY
 STA. 801+80