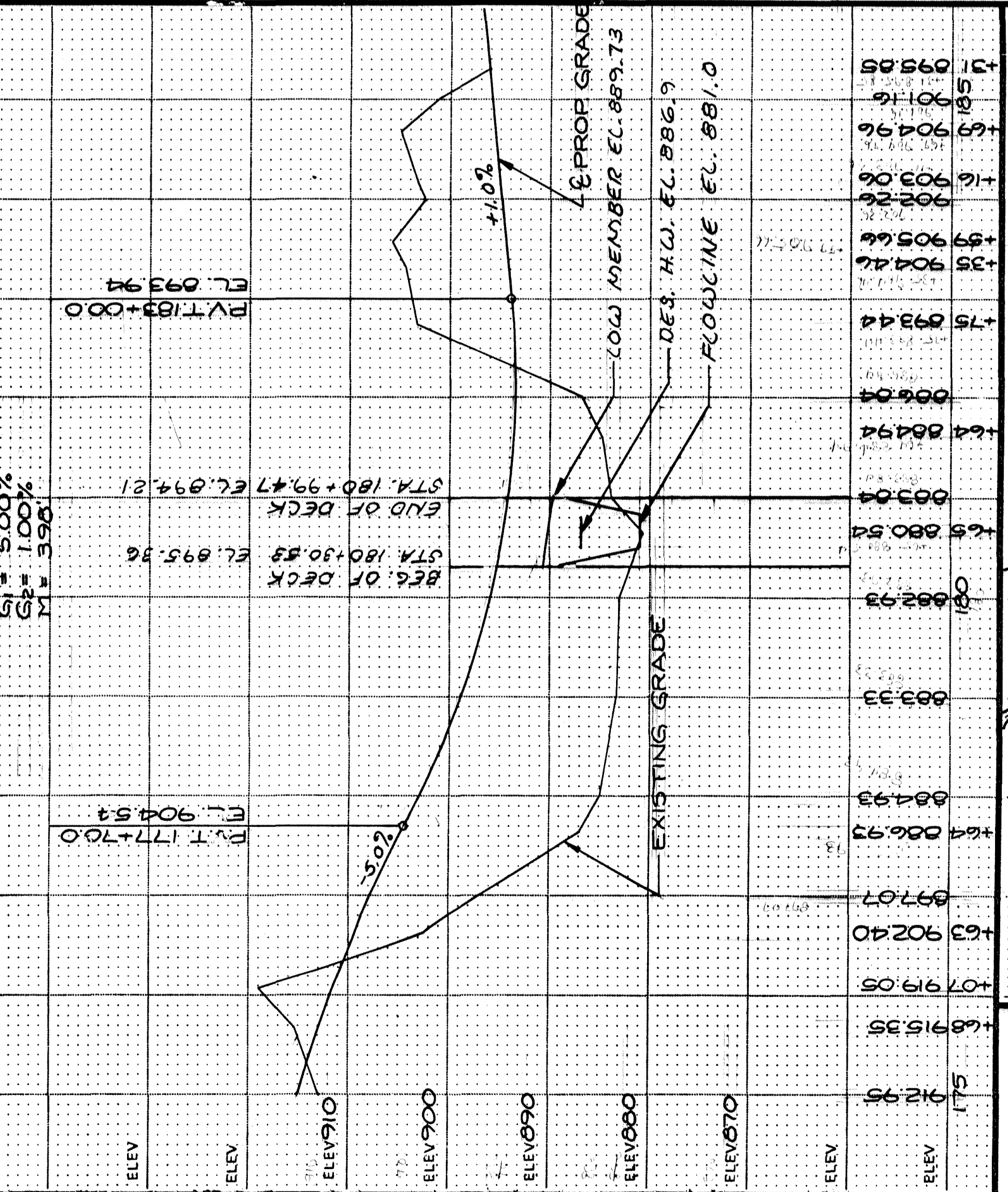


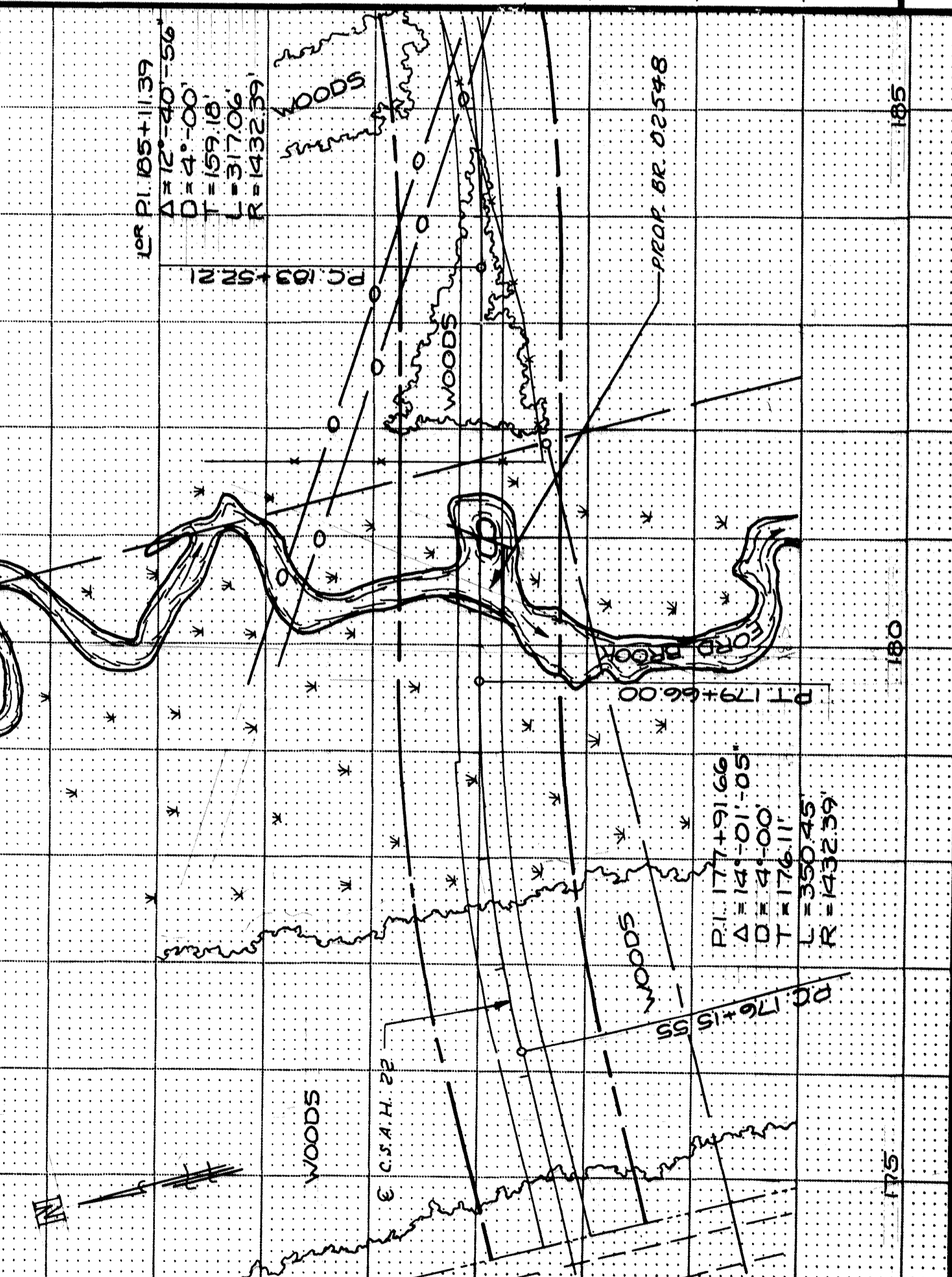
CONTRACTED PROFILE

SCALE: HOR. 1" = 50' VER. 1" = 10'



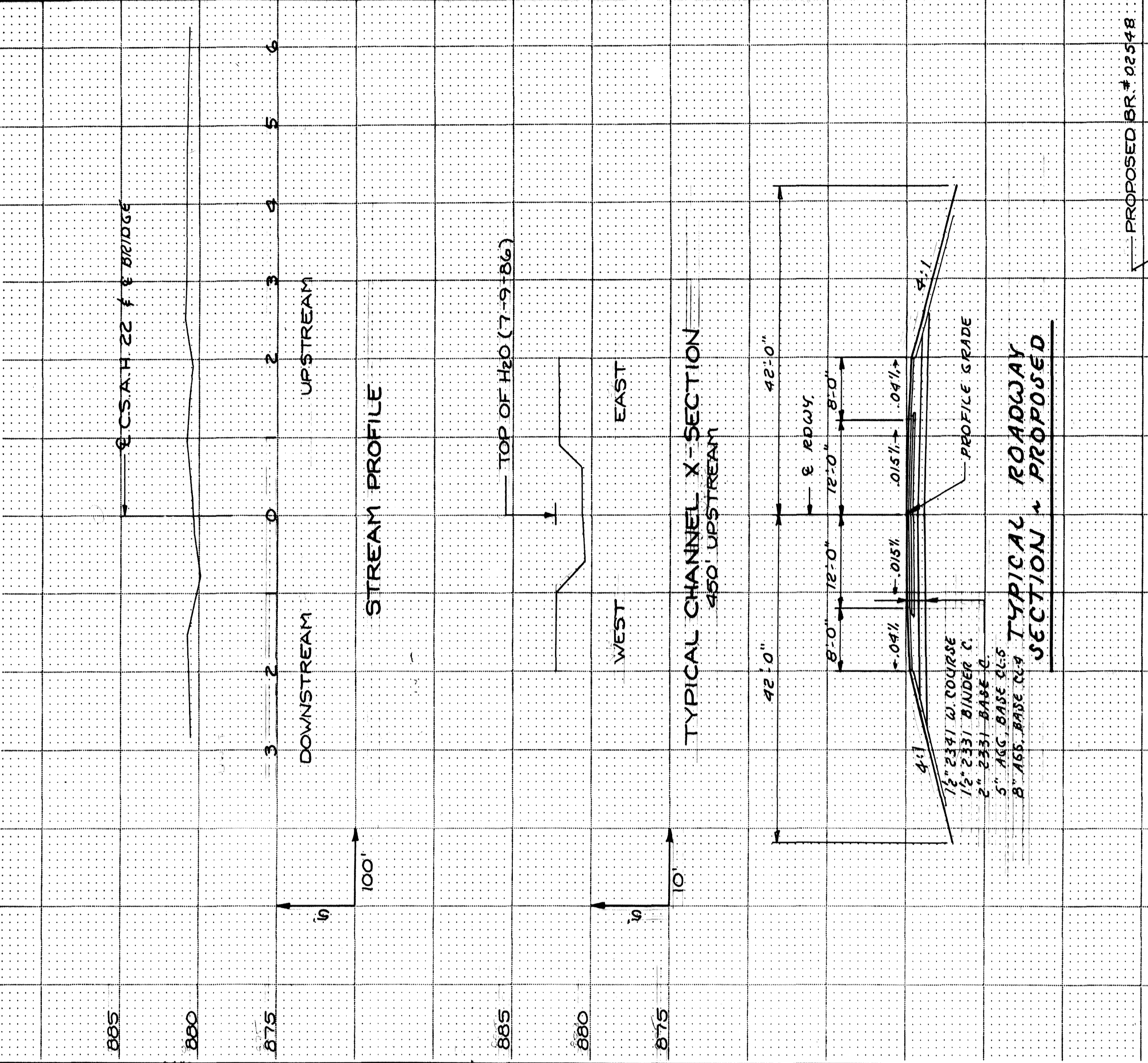
PLAT

SCALE: 1" = 100'



TYPICAL SECTIONS & PERTINENT DATA

SCALES AS SHOWN



Fed. Proj. No.

LOCATION ENGINEER'S OBSERVATIONS AT BRIDGE SITE

1. Special Features: Waterfalls, dams, floods, ice, debris, sliding banks, recreational boating.

2. Other bridges or culverts over the same stream (particularly structures which carry high water without overflow of roadway): Given location, type, length, height above high water, cross-sectional area etc.

3. Apparent highwater elevation: Obtained from:

4. Other data: Approx. velocity of water at time of survey.

HYDRAULIC ENGINEERS RECOMMENDATION

DATE: AUG. 5, 1986

Stream or ditch designation: FORD BROOK

Drainage area: 23.0 SQ. MI.

Max. flood on record: UNK. Design flood: 50 yr. freq. 626 CFS

Max. observed highwater elevation: UNK. Design highwater elevation: 886.9

Design mean velocity through structure: 2.8 F.P.S.

Low superstructure at or above elevation: 889.9

Flowline elevation: 881.0

Waterway area req'd. below elevation: 22.3 Sq. Ft. at Rt. angles to channel

In the interest of flood plain zoning the regional flood (100 yr. freq.) is 766 C.F.S. at stage 887.6 and mean velocity of 3.2 F.P.S. with 0.7 Ft. wellhead.

The above recommendation will provide a structure of adequate waterway to pass the regional flood within criteria established by the Dept. of Natural Resources.

FOUNDATION ENGINEERS RECOMMENDATION

DATE: AUG. 5, 1986

1-67' PRESTR. CONC. BEAM SPAN

40' ROADWAY

20' GREG

Bridge survey sheets made from: ANOKA COUNTY SURVEY DATA

Bench mark elevation: 897.86 (M.S.L. 1929 Adj.)

Location: SPK. 8. OAK STA. 103+70

MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE SURVEY

AT MILE POINT: ON C.S.A.H. 22 (M.H. C.S.A.H. CR. #6)

PROPOSED BRIDGE LOCATED 0.379 MILES W. OF T.H. 47

SEC. 23 TWP. 33 N. R. 25 W.

TOWNSHIP BURNS COUNTY ANOKA

BRIDGE NO. 02548

APP'D. 5-26-87

INDEX MAP (FOUR SECTIONS)

PROPOSED BR. 02548