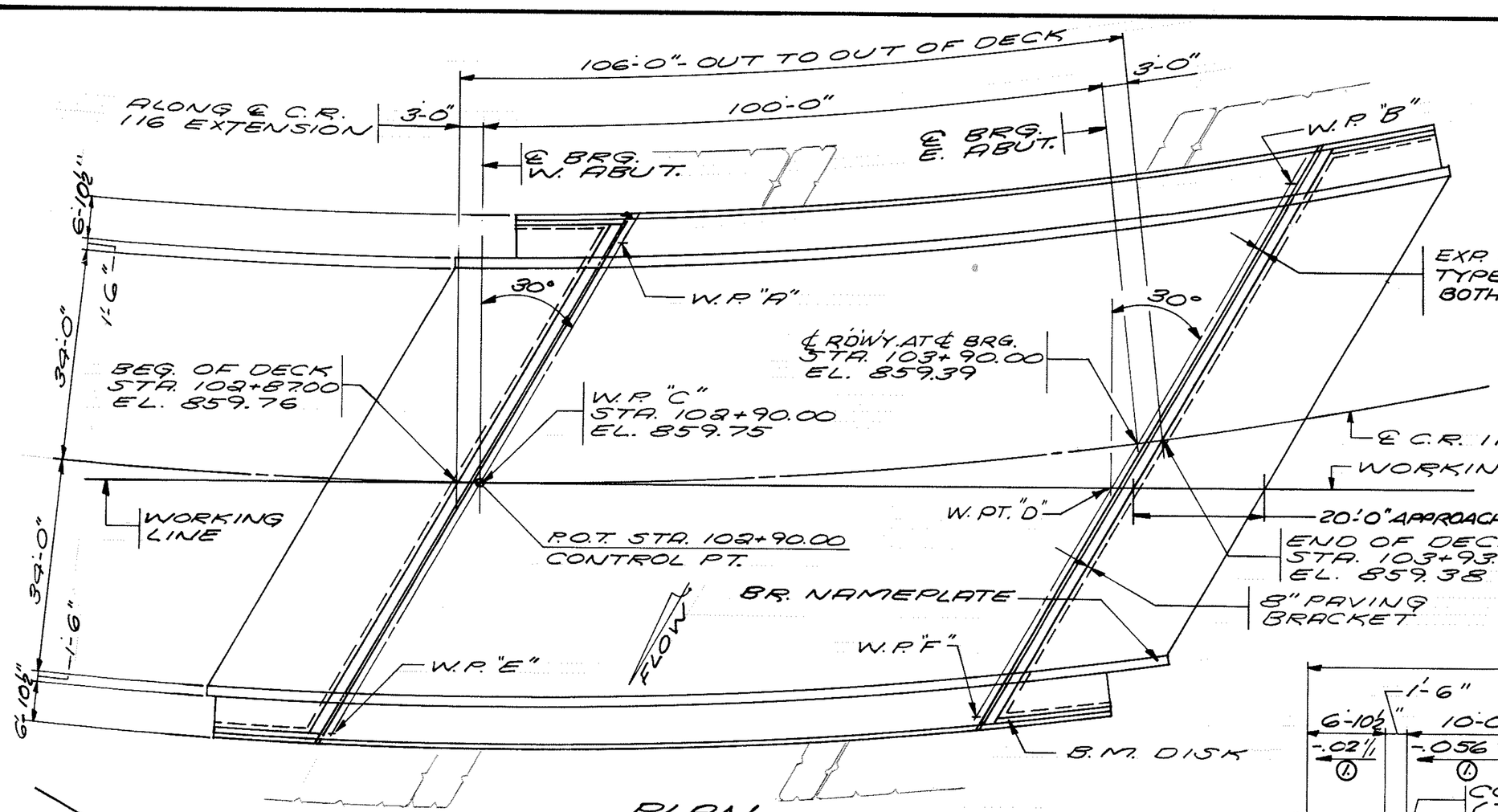
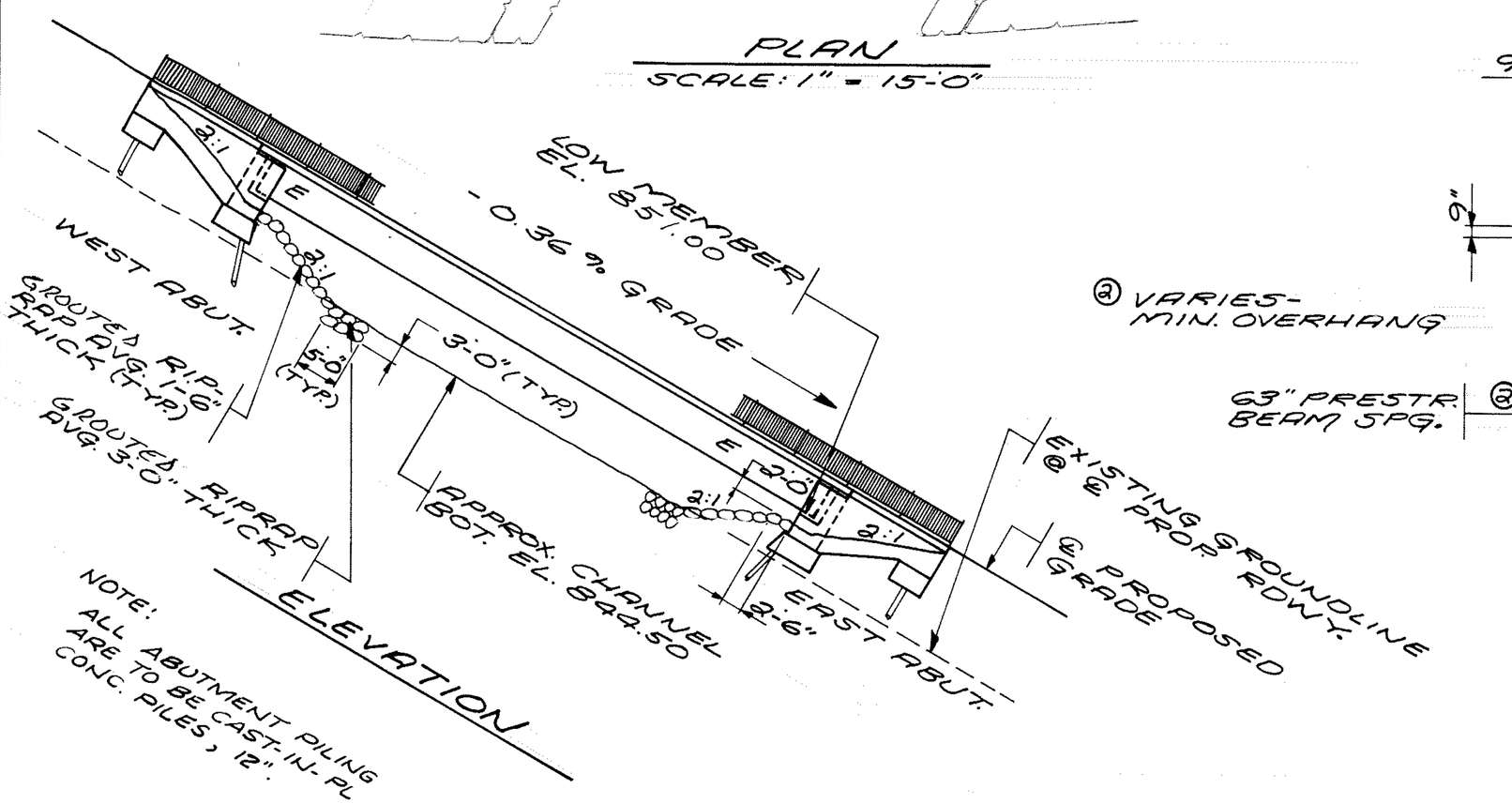


PLAN

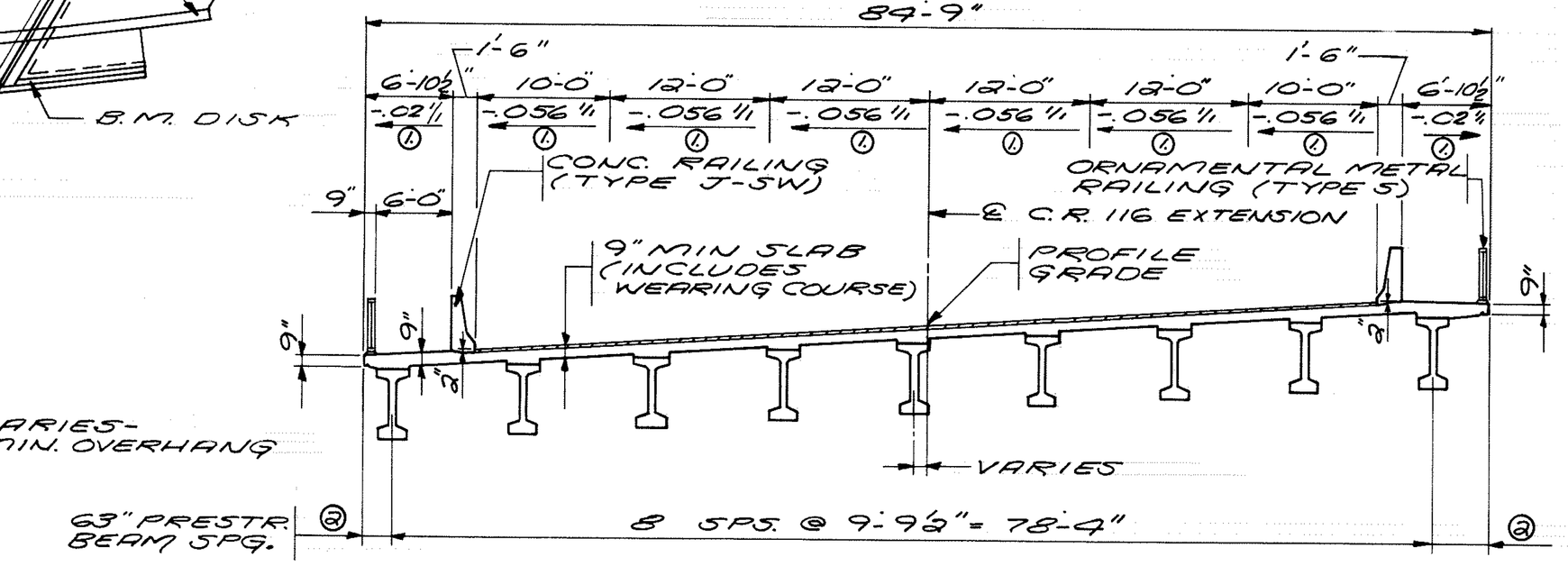
SCALE: 1" = 15'-0"

HORZ. CURVE DATA
Δ = 25° 23' 29"
DC = 8° 30' 00"
R = 674.068'
L = 298.722'
T = 151.855'
E = 16.893



ELEVATION

① BRIDGE DECK TO BE AT FULL SUPER OF .056" FROM BEG. OF BRIDGE TO STA. 103+71.77. FROM STA. 103+71.77 TO END OF DECK TO BE IN SUPEREL. TRANSITION. SEE SHT. 2 FOR CHART.



TRANSVERSE SECTION THRU DECK

CONSTRUCTION NOTES

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

BRIDGE SEAT REINFORCEMENT SHALL BE PLACED TO AVOID INTERFERENCE WITH DRILLING HOLES FOR ANCHOR RODS. THE SUPERSTRUCTURE BEAMS SHALL BE PLACED IN FINAL POSITION PRIOR TO DRILLING HOLES FOR ANCHOR RODS.

THE FIRST DIGIT OR THE FIRST TWO DIGITS OF EACH BAR MARK INDICATES THE BAR SIZE. BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

C.P 88-09-116

SCHEDULE OF QUANTITIES FOR THE ENTIRE BRIDGE

ITEM NO.	ITEM	UNIT	QUANTITY
2401.501	STRUCTURE CONCRETE (1A43)	CU. YD	147 (P)
2401.501	STRUCTURE CONCRETE (3Y43)	CU. YD.	242 (P)
2401.512	BRIDGE SLAB CONCRETE (3X36)	SQ. FT.	9158 (P)
2401.513	TYPE J RAILING CONCRETE (3X46)	LIN. FT.	298 (P)
2401.515	SIDEWALK CONCRETE (3X46)	SQ. FT	356 (P)
2404.501	CONCRETE OVERLAY (3U17A)	SQ. FT.	7303 (P)
2401.541	REINFORCEMENT BARS, EPOXY COATED	POUND	90870 (P)
2401.541	REINFORCEMENT BARS	POUND	5750 (P)
2402.591	EXPANSION JOINT DEVICES, TYPE 3	LIN. FT.	208 (P)
2402.595	BEARING ASSEMBLY	EACH	18
2405.502	PRESTRESSED CONCRETE BEAMS, TYPE 63	LIN. FT.	912 (P)
2405.511	DIAPHRAGMS FOR TYPE 63 PRESTRESSED BEAMS	LIN. FT.	158 (P)
2402.583	ORNAMENTAL METAL RAILING	LIN. FT	281
2557.501	WIRE FENCE, DESIGN, SI	LIN. FT	294
2545.509	CONDUIT SYSTEM (TELEPHONE)	LUMP SUM	1
2545.509	CONDUIT SYSTEM (POWER)	LUMP SUM	1
2545.509	CONDUIT SYSTEM (WATERMAIN)	LUMP SUM	1
2545.509	CONDUIT SYSTEM (GAS MAIN)	LUMP SUM	1
2545.509	CONDUIT SYSTEM (FUTURE UTILITIES)	LUMP SUM	1
2452.507	CAST-IN-PLACE CONCRETE PILING, DELIVERED, 12"	LIN. FT.	3685
2452.508	CAST-IN-PLACE CONCRETE PILING, DRIVEN, 12"	LIN. FT	3685
2452.519	CAST-IN-PLACE CONCRETE TEST PILES 65 FT. LG., 12"	EACH	4
0301.601	BRIDGE APPROACH PANELS	LUMP SUM	1
0401.601	STRUCTURE EXCAVATION	LUMP SUM	1
0401.601	SLOPE PREPARATION	LUMP SUM	1
2511.507	GROUTED RIPRAP	CU. YD.	370

DESIGN DATA

1989 A.A.S.H.T.O. DESIGN SPECIFICATIONS LOAD FACTOR DESIGN METHOD
H525 LOADING INCLUDES 17 P.S.F. D.L. ALLOWANCE FOR FUTURE WEARING COURSE MODIFICATIONS
REINFORCED CONCRETE:
f'c = 4000 P.S.I. n = 8
fy = 60000 P.S.I. REINFORCEMENT
STRUCTURAL STEEL:
fy = 36,000 P.S.I. SPEC. 3306
fy = 50000 P.S.I. SPEC. 3309
PRESTRESSED CONCRETE:
f'c = 6000 P.S.I. n = 6 LOW RELAX
f'ps = 270000 P.S.I. 270 STRANDS
DECK AREA = 9158 SQ FT.
PROJECTED A.D.T. FOR 2009 = 19,150

LIST OF SHEETS

NO.	DESCRIPTION
1	GENERAL PLAN & ELEVATION
2	BRIDGE LAYOUT
3-5	WEST ABUTMENT DETAILS
6-8	WEST ABUTMENT REINFORCEMENT
9-11	EAST ABUTMENT DETAILS
12-14	EAST ABUTMENT REINFORCEMENT
15&16	SUPERSTRUCTURE DETAILS
17-19	SUPERSTRUCTURE REINFORCEMENT
20	SUPERSTRUCTURE QUANTITIES
21	FRAMING PLAN
22	63" PRESTRESSED CONCRETE BEAMS
23	BIKEWAY RAILING CONC. RAIL, TYPE J & FENCE
24	ORNAMENTAL METAL RAILING, TYPE S
25&26	WATERPROOF EXPANSION DEVICE
27	BRIDGE APPROACH PANELS
28	UTILITIES
29-34	DETAILS
35	BRIDGE SURVEY
36	BRIDGE SURVEY - PLAN & PROFILE

B.M. EL. 873.23
S.E. COR. SIDEWALK @ S.E. COR. ICE ARENA

APPROVED:
Paul K. Lund
COUNTY ENGINEER
ANOKA COUNTY
DATE: 9/29/89

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION & THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Brian R. Watts
REG. NO. 13896
DATE: 9/25/89

C.R. 116 EXTENSION
MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 02546

C.R. 116 EXTENSION FROM C.R. 97 IN RAMSEY TO C.S.A.H. 7 IN ANOKA OVER THE RUM RIVER
100' PRESTRESSED BEAM SPAN. - 48'-0" ROADWAY, 2-6'-0" SIDEWALKS
30° SKEW, 8° 30'-00" CURVE
SPAN IDENT. NO. 501

GENERAL PLAN AND ELEVATION

SEC. 25 TWP. 32N R25W
RAMSEY TOWNSHIP
ANOKA COUNTY

APPROVED:

PLAN PREPARED BY: ERICKSON ENGINEERING | 3340 REPUBLIC AVE. ST LOUIS PK., MINN. 55426 | SHEET 18 OF 36B SHEETS | 02546 | D.J.V. R.R.T.