

DESIGN DATA

1983 AND CURRENT INTERIM A.A.S.H.T.O. DESIGN SPECIFICATIONS.
 DESIGN LOADING HS 20 LIVE LOAD - LOAD FACTOR DESIGN METHOD. (DEAD LOAD INCLUDES 17 PSF FOR FUTURE WEARING COURSE MODIFICATIONS)
 MAXIMUM ALLOWABLE DESIGN STRESSES:
 REINFORCED CONCRETE N = 8
 F_y = 4,000 PSI
 F_c = 60,000 PSI (REINFORCEMENT)

DESIGN SPEED = 55 MPH DECK AREA = 1448 SF.
 2500 ADT (CURRENT)
 6000 PROJECTED ADT FOR YEAR 2009

LIST OF SHEETS

1	COVER SHEET
2	GENERAL PLAN AND ELEVATION
3	BRIDGE LAYOUT
4	ABUTMENT DETAILS
5	ABUTMENT BAR LIST AND SUMMARY OF QUANTITIES
6	SUPERSTRUCTURE REINFORCEMENT
7	SUPERSTRUCTURE DETAILS AND SUMMARY OF QUANTITIES
8	CONCRETE RAILING TYPE J
9	STANDARD DETAILS B103 AND B201
10	STANDARD DETAIL B551
11	BRIDGE SURVEY
12	BRIDGE SURVEY PLAN AND PROFILE

Designed by
TKDA

TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES, INC.
 SAINT PAUL, MINNESOTA

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNED *Gregory O. Cole*

DATE 4-24-89 REG. NO. 8715

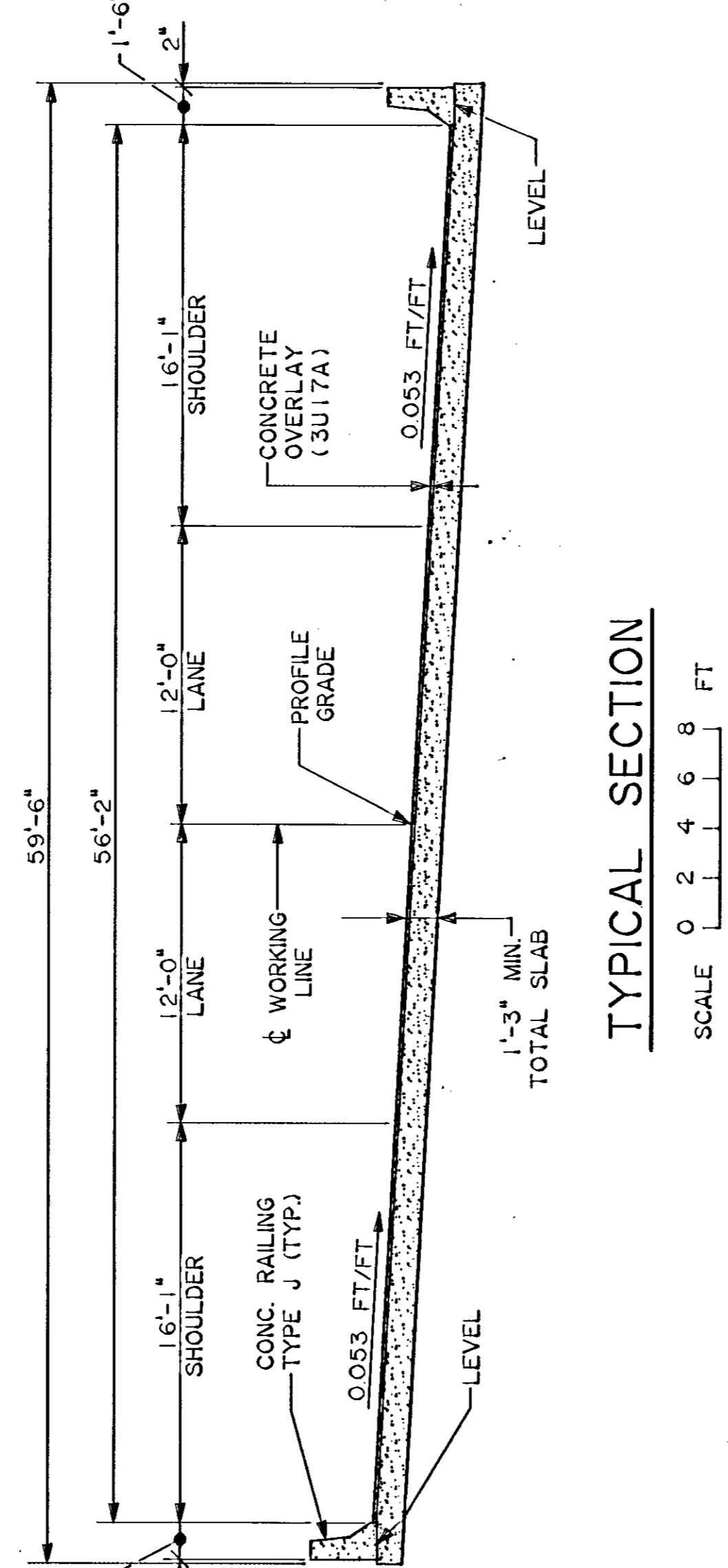
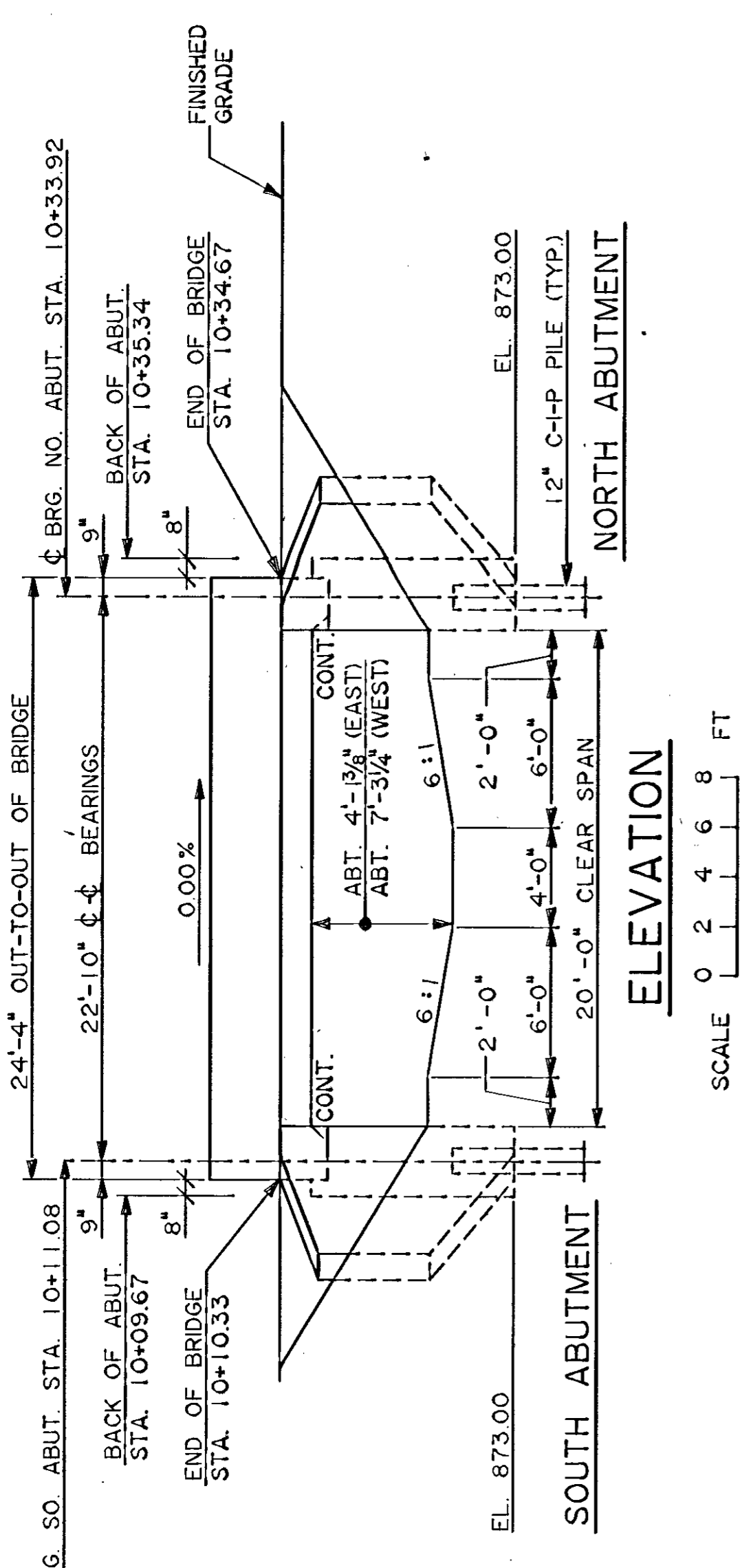
BENCH MARK ELEV. 882.68
 (M.S.L. 1929 ADJ.) TOP NUT HYD.
 N.E. CORNER BUNKER LAKE BLVD.
 (C.S.A.H. 116) AND NEW CROSSTOWN
 BLVD. (C.R. 18)

COUNTY ROAD NO. 18
 MINNESOTA
 DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 02551
CROSSTOWN BLVD (C.R. NO. 18)
OVER WETLANDS

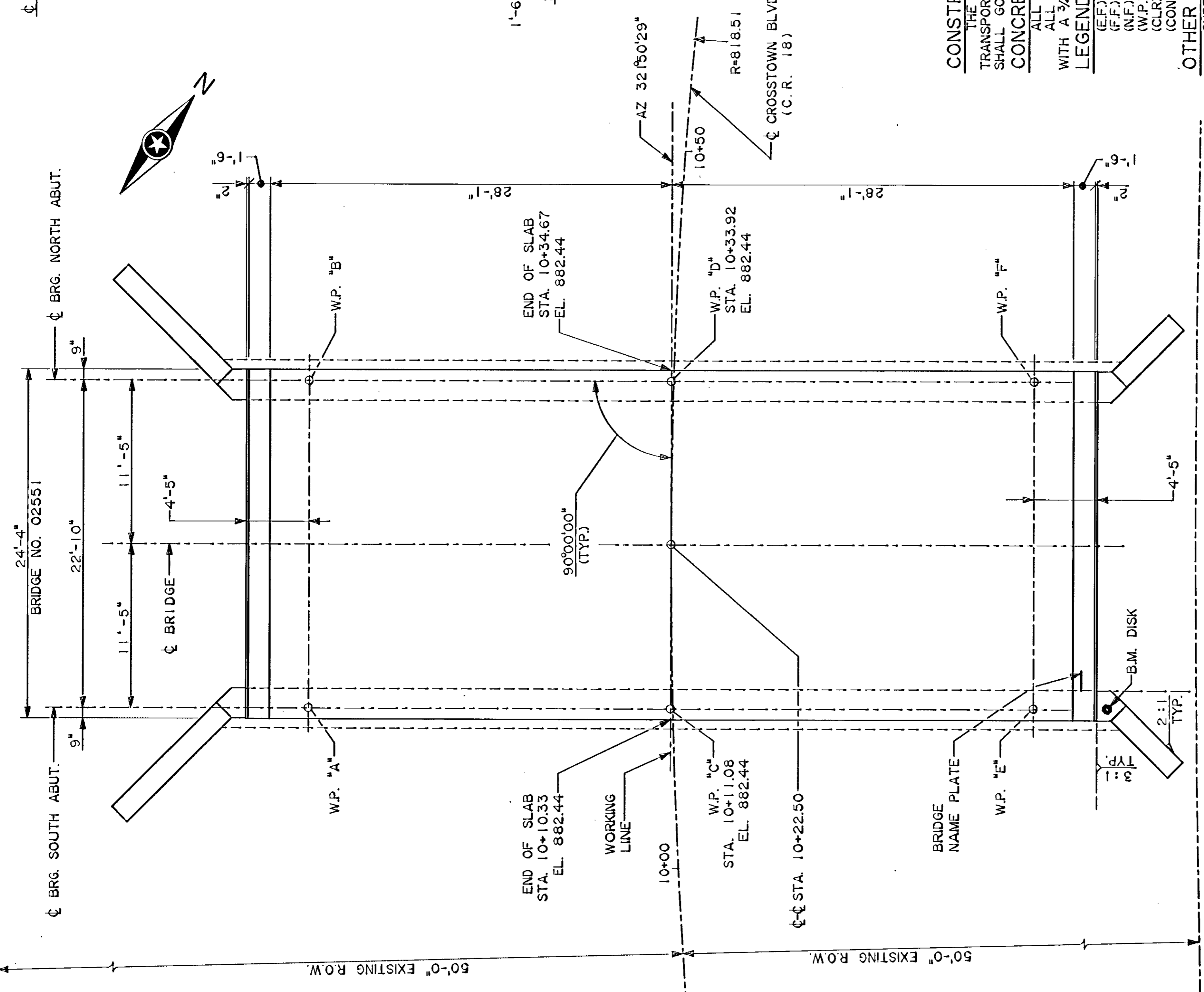
GENERAL PLAN AND ELEVATION
 SEC 33 T 32 N R 24 W
 CITY OF ANDOVER ANOKA COUNTY
 APPROVED

BRIDGE ENGINEER
 REG. NO. 02551
 DEPUTY DIVISION DIRECTOR



TYPICAL SECTION

SCALE 0 2 4 6 8 FT



PLAN

SCALE 0 2 4 6 8 FT

CONSTRUCTION NOTE:

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
CONCRETE
 ALL CONCRETE SHALL CONFORM TO MN/DOT 2461.
 ALL EXPOSED EDGES OF CONCRETE SHALL BE FINISHED WITH A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

LEGEND

- (EF) EACH FACE
- (FF) FAR FACE
- (NF) NEAR FACE
- (WP) WORKING POINT
- (CLR) CLEAR
- (CONT.) CONTRACTION
- (ABT.) ABOUT
- (GPS) SPACES
- (SER) SERIES
- (TYP) TYPICAL
- (BRG) BEARING
- (SH) SHEET
- (ABT.) ABOUT

OTHER NOTES
 SUPERSTRUCTURE NOTES SH 7
 PILE NOTES SH 5
 STRUCTURE EXCAVATION SH 5

REINFORCEMENT BARS
 REINFORCEMENT BARS SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO MN/DOT 3301, GRADE 60.
 ALL REINFORCEMENT BARS ARE DESIGNATED ON THE PLANS BY MARKS. THE LETTER INDICATES THE LOCATION, THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK INDICATE THE BAR SIZE. LETTERS INDICATING LOCATION ARE AS FOLLOWS:
 A - ABUTMENT
 B - SLAB BOTTOM
 T - SLAB TOP
 R - RAILINGS
 BAR DETAILS SHALL CONFORM TO ACI 315, LATEST EDITION.
 ALL BENT BAR DIMENSIONS ARE GIVEN OUT-TO-OUT.
 ALL BARS OF A SERIES SHALL VARY BY A CONSTANT INCREMENT. THE SHORTEST AND THE LONGEST BAR OF A SERIES GROUP ARE TABULATED IN THE BAR LIST.
 THE CLEAR DISTANCE BETWEEN REINFORCEMENT BARS AND FACE OF CONCRETE SHALL BE 2" UNLESS NOTED.
 BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH 3301.

REVISED 4-25-89

SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE									
ITEM NO.	2021.501	2401.501	2401.513	2401.541	2402.521	2404.501	2452.508	2452.519	
MOBILIZATION	LUMP SUM	CU. YD.	112 (P)	1	22250 (P)	SQ. FT.	1367 (P)	980	2
STRUCTURE CONCRETE (3143)	CU. YD.	64 (P)							
STRUCTURE CONCRETE (3X36)	CU. YD.	49 (P)							
TYPE J RAILING CONCRETE (3X46)	LIN. FT.								
REINFORCEMENT BARS (EPOXY COATED)	POUND								
STRUCTURAL STEEL (S306)	POUND								
C-I-P CONC. PILING DELIVERED, 12" LONG.	LIN. FT.								
C-I-P CONC. PILING DRIVEN, 12" LONG.	LIN. FT.								
C-I-P CONC. TEST PILES	80' LONG, 12" DIA.								
C-I-P CONC. TEST PILES	80' LONG, 12" DIA.								