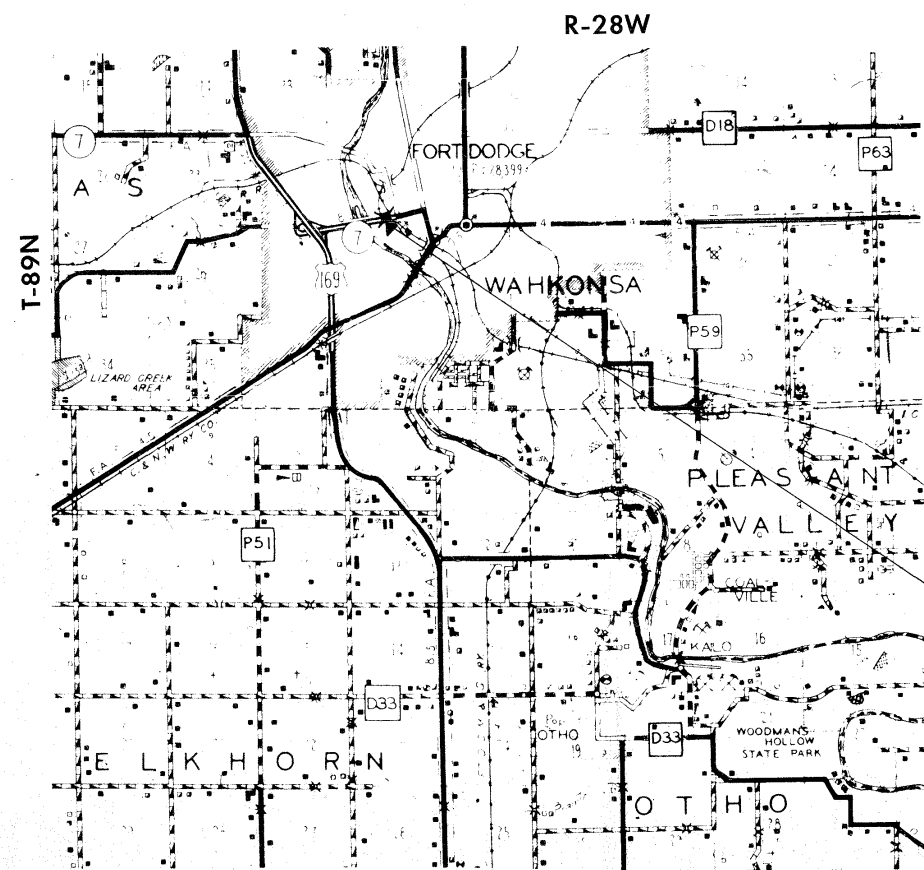
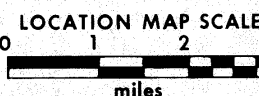




LOCATION MAP



STATE OF IOWA STATE HIGHWAY COMMISSION

PLANS OF PROPOSED IMPROVEMENT
ON THE

PRIMARY ROAD SYSTEM WEBSTER COUNTY

BRIDGE REPAIR

IOWA #7 OVER I.C. & C. & N.W. RAILROADS IN FORT DODGE

SCALES: AS NOTED

THE IOWA STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS
FOR CONSTRUCTION WORK, SERIES OF 1972 SHALL
APPLY TO WORK ON THIS PROJECT
(PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS)

SUPPLEMENTAL CONSTRUCTION SPECIFICATIONS

Spec. 725, "Supplemental Specifications for Traffic Controls."

Spec. 742, "Addendum to Supplemental Specification for Traffic Controls."

CONSTRUCTION PLANS SHOWING PROJECT AS BUILT

FOR BRIDGE DECK REPAIR IN 1975
CONTRACTOR CEDAR FALLS CONST. CO. INC.

PREPARED BY Ron DeBor DATE 2-21-78
RES. CONSTR. ENGR

THREE COPIES
ONE COPY TO JEFFERSON RES.
ONE COPY TO DISTRICT NO. 1
ONE COPY TO
RES. MAINTANCE ENGR

DES. NO. 275

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	5		1	8
PROJECT NUMBER				
F-7-5(9)--20-94				
R.O.W. PROJECT NUMBER				

INDEX OF SHEETS		105-3
NO.	DESCRIPTION	
1	Title Sheet	
1A	REVISION SHEET	
2	Estimate of Quantities	
3-8	Bridge Design No. 275 (Sta. 232+22.93)	

IOWA STATE HIGHWAY COMMISSION STANDARDS REQUIRED (Available at Bridge Design Services)		
STANDARD	ISSUED	REVISED

REVISED
SEE FOLLOWING SHEET 1A

APPROVED
2/26/75
DEPUTY CHIEF ENGINEER
IOWA HIGHWAY COMMISSION
DATE

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
UNDER MY SUPERVISION AND THAT ENGINEERING
DECISIONS WITH REGARD TO THE DESIGN WERE
MADE BY ME OR BY OTHER DULY REGISTERED
PROFESSIONAL ENGINEERS UNDER THE LAWS OF
THE STATE OF IOWA.
E. J. Schlotman
2792 2-14-75
IOWA REGISTRATION NUMBER DATE

U.S. DEPT. TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ENGINEER
DATE

LISTING OF PROJECT REVISIONS

DATE	SHEET NUMBER	DESCRIPTION OF REVISIONS	DATE	SHEET NUMBER	DESCRIPTION OF REVISIONS
4-15-75		Design 275			
	1A of 8	This sheet added to project (Revision Sheet).			
	8 of 8	Notes added to this sheet and additional information added.			
	7 of 8	This sheet voided.			
	1 of 8	Sheet 1A added to "Index of Sheets".			
		REASON: Signing layout had to be changed because it would not work as shown on plans at this site.			

MASTERS UNITED

02-12-75 William C. Eyer REG. NO. 2926
DATE WILLIAM C. EYER

DES. NO. 275	IOWA #7 OVER I. C. &	STA. 232+22.93
WEBSTER COUNTY	C. & N.W. RAILROADS	IA. CROSSING NO. 12807
	IN FORT DODGE	MAINT. NO. 9404.00007
SECTION 19	T-89N, R-28W	WAHKONSA TWP.

DESIGN FOR REPAIR TO (26° 24' SKEW)
654'-8 x 58' CONTINUOUS WELDED PLATE
GIRDER BRIDGE

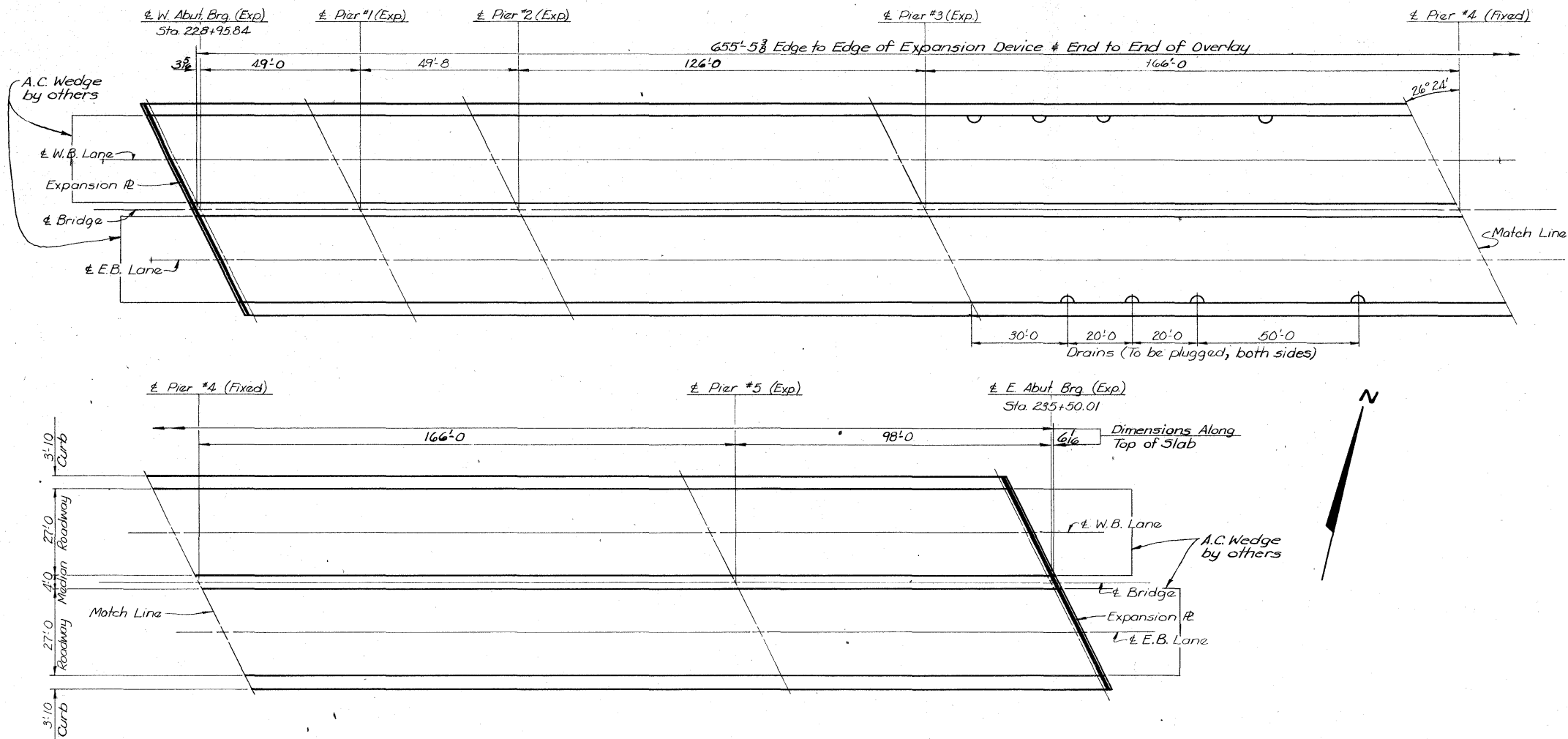
ESTIMATE OF QUANTITIES

NO.	ITEM	UNIT	TOTAL
1	Bridge Floor Overlay	Sq. Yds.	3933
2	Bridge Floor Repair, Class A	Sq. Yds.	1358
3	Structural Steel	Lbs.	3994

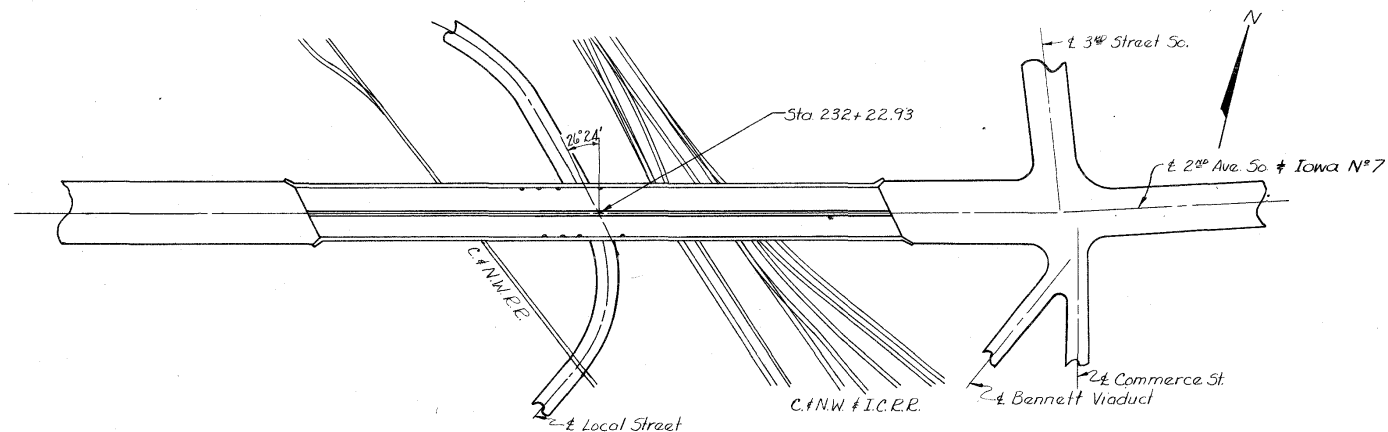
EXTRA WORK ORDER

ITEM NO	DESCRIPTION	EWO NO.	QUANTITY
7001	INCREASE BRIDGE FLOOR REPAIR CLASS "A"	1 BLANKET	1801 SQ YDS
	FURNISH & REDUCE A.C. PUNDOUTS	1-M BLANKET	1.6 TONS

ESTIMATE SHEET



SITUATION PLAN



GENERAL PLAN

GENERAL NOTES:

This design is for the repair to the existing 654'-8" x 58' Continuous Welded Plate Girder Bridge, original Design No. 2053, Webster Co. Plans of existing structure may be obtained at the Ames Office of the Iowa State Highway Commission. Repairs shall consist of bridge floor repair and plugging existing drains. Construction shall be done in stages with at least one lane of traffic maintained at all times in accordance with I.S.H.C. Specs. No. 725 and No. 742 and with Design Sheets 5 and 6. Cost of all traffic control devices, to be furnished and/or maintained by the Contractor, shall be considered incidental to other work and no separate payment will be made.

A composite plot of I.S.H.C. Maintenance surveys is shown on Design Sheets 2 and 3. Solid outlines represent boundaries of spalled and hollow areas determined by audible and visual sounding. Dashed outlines represent boundaries of high corrosion potential areas determined by an electrical corrosion detection device. (It has been determined that significant corrosion of reinforcing is present when device registers 0.45 volt.) Hatched areas on the plot combine the spalled and hollow areas with additional areas of corrosion potential outside the spalled and hollow boundaries. The Engineer will resurvey the floor, using the same methods, and establish these areas for repair as they exist at the time of construction.

Hatched areas, as shown on the plans or as adjusted by the Engineer, are to be repaired by Class A repair methods. The entire concrete surface of the floor, including areas over Class A repair, shall have Bridge Floor Overlay.

Present floor thickness is about 7 inches. The Contractor will be required to exercise care in removing concrete in order to prevent unnecessary unbounding of reinforcing steel.

The Contractor is to plug existing drains in both exterior gutters as directed by the Engineer. Cost of plugging drains is considered incidental.

The bid item "Structural Steel" shall include all costs associated with furnishing and installing raise plates for expansion devices as shown and noted.

Field welding may be performed by an individual not pre-qualified by I.S.H.C. if that individual can demonstrate proficiency acceptable to Engineer.

The A.C. runout taper at each end of bridge will be placed by local I.S.H.C. Maintenance forces before traffic is shifted to new construction. The Contractor shall give adequate prior notice so that the A.C. may be placed during normal working hours and working days of I.S.H.C. Maintenance.

SPECIFICATIONS:

Construction: I.S.H.C. Standard Specifications, Series of 1972, plus current Special Provisions and Supplemental Specifications and including: Spec. 725 & 742, Supplemental Specifications for Traffic Controls.

LOCATION:

Webster County
T-89-N R-28-W
Section 19
Wahkonga Twp.
Iowa #7 over I.C. & C.N.W.
Railroads in Fort Dodge

TOTAL ESTIMATED QUANTITIES

Item No.	Item	Units	Quantity
1	Bridge Floor Overlay	Sq. Yds.	3933
2	Bridge Floor Repair, Class A	Sq. Yds.	1358
3	Structural Steel	Lbs.	3994

Design for Repair to (26'24" Skew)
654'-8" X 58' CONTINUOUS WELDED PLATE GIRDER BRIDGE
over C.N.W. & I.C. Railroads

SITUATION PLAN

Station: 232+22.93

February 1975

WEBSTER COUNTY

Maint. # 9404.00007

Iowa Crossing # 12807

IOWA STATE HIGHWAY COMMISSION

Design Sheet No.: 1 Of 6 File No.: 25563 Design No.: 275

DESIGNED BY: C. Cole
DETAILED BY: J. Matney

TRACED BY: J. Matney
CHECKED BY: H. Server

Section Leader: W.C. Eyer

WEBSTER COUNTY

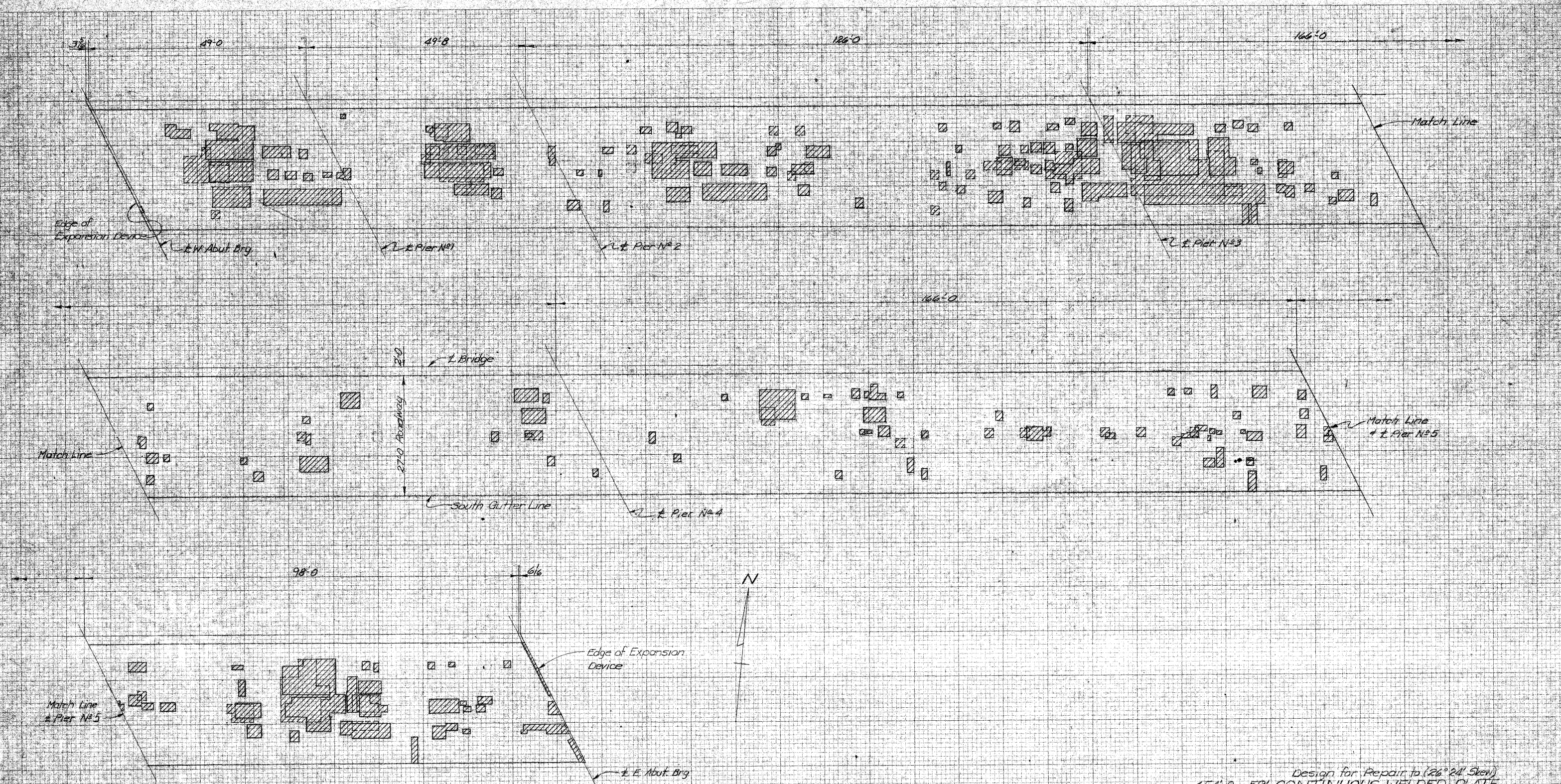
PROJECT NUMBER
F-7-5(9)--20-94

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	5		3	8

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EUGENE DIEZGEN CO.
100% SURE - 100% SURE
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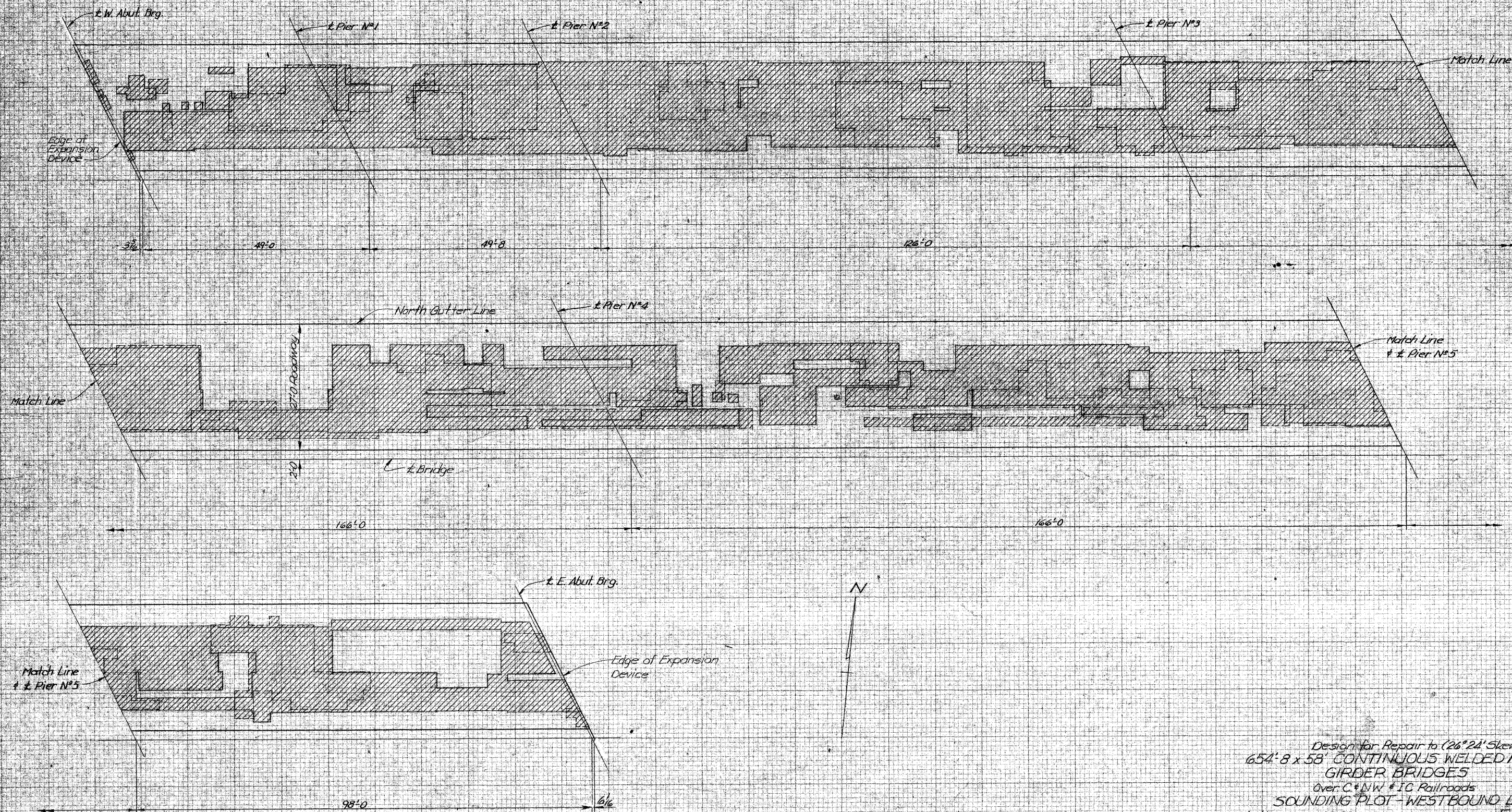
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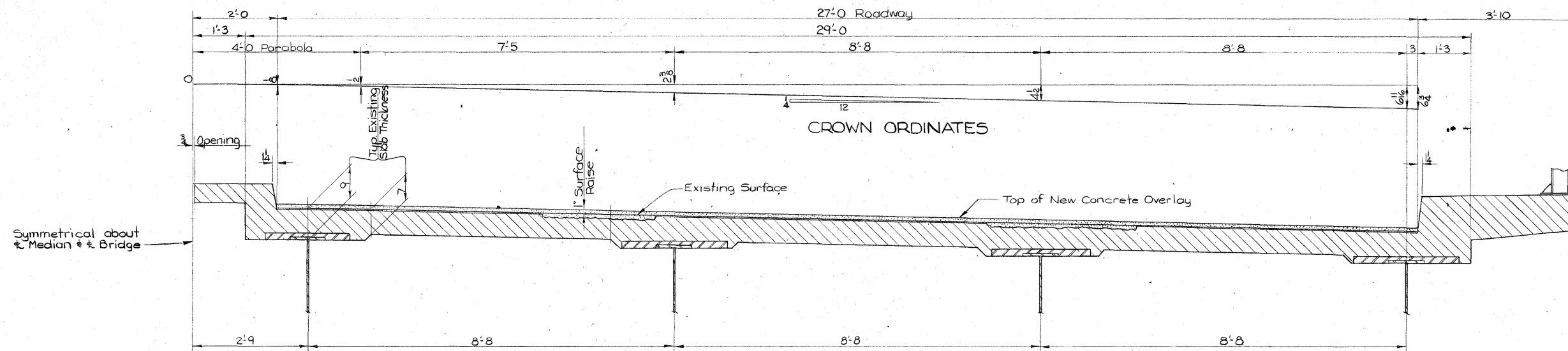


Design for Repair to (26" 24' Skew)
654'-8 x 53' CONTINUOUS WELDED PLATE
GIRDER BRIDGES
over C+N.W. & I.C. Railroads
SOUNDING PLOT EASTBOUND LANES
Station: 232+22.93 February 1975
WEBSTER COUNTY
Maint. No. 9404.00007 Road Crossing No. 12807
Towa State Highway Commission
Design Sheet No. 2 File No. 25563 Design No. 276

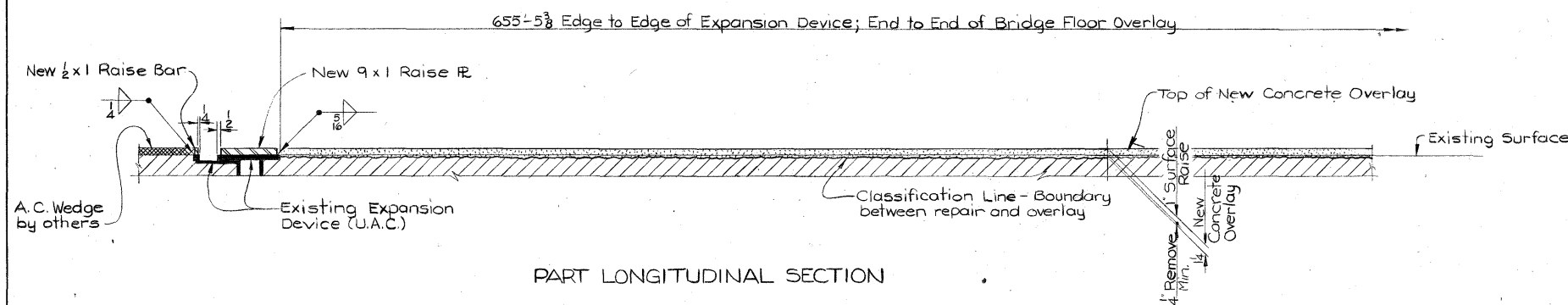
WEBSTER COUNTY



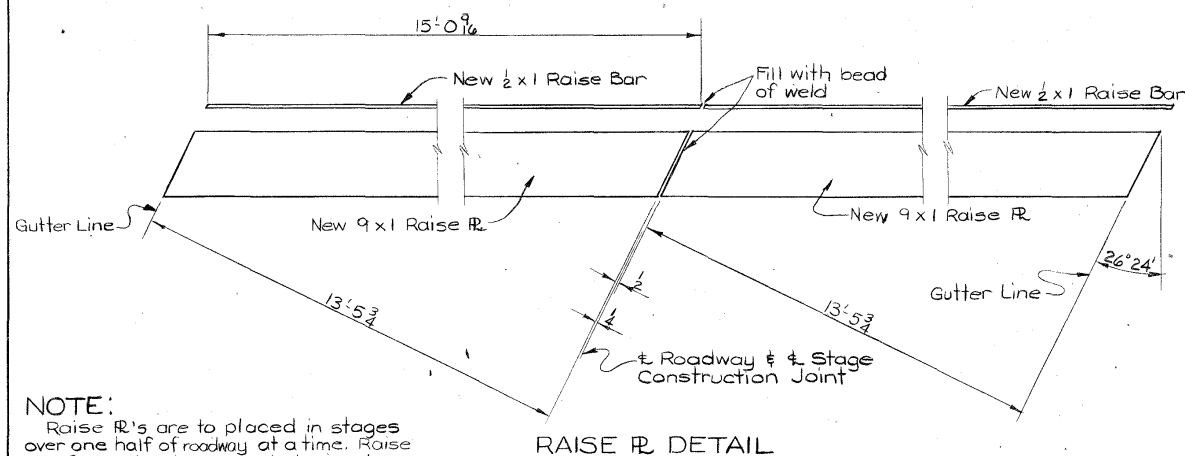
Design for Repair to (26°24' Skew)
654'-8" x 58' CONTINUOUS WELDED PLATE
GIRDER BRIDGES
Over C & NW & IC Railroads
SOUNDING PLOT - WEST BOUND LANES
Station: 232+22.93 February 1975
WEBSTER COUNTY
Maint. N° 9404.00007 Iowa Crossing N° 12807
Iowa State Highway Commission
Design Sheet N° 3 of 6 File N° 65312 Design N° 275



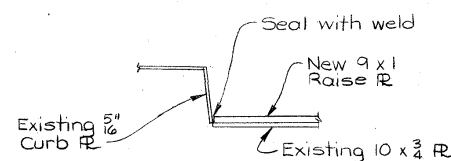
TYPICAL HALF CROSS SECTION



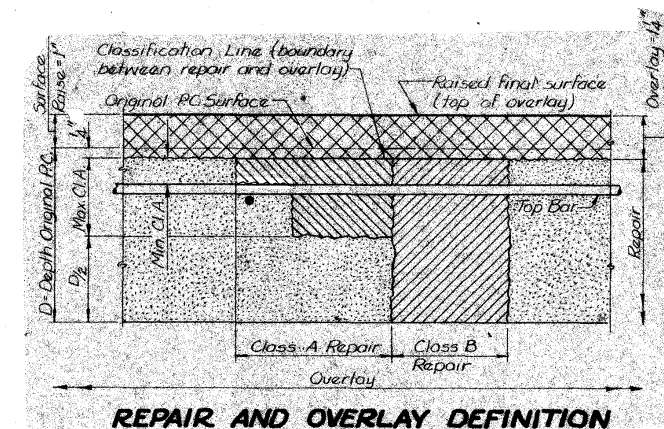
PART LONGITUDINAL SECTION



RAISE R DETAIL



SECTION AT CURB



REPAIR AND OVERLAY DEFINITION

NOTE:
Raise R's are to be placed in stages over one half of roadway at a time. Raise R's for each stage are to be in place before new bridge surfacing of that stage is in place.

Design for Repair to (26° 24' Skew)
654'-8 x 58' CONTINUOUS WELDED PLATE GIRDER BRIDGE
Over C & N.W. & I.C. Railroads
REPAIR DETAILS
Station: 232 + 22.93 February 1975
WEBSTER COUNTY
Maint. No. 9404.00007 Iowa Crossing No. 12807
IOWA STATE HIGHWAY COMMISSION
Design Sheet No.: 4 Of 6 File No.: 25563 Design No.: 275

DESIGNED BY: C. Cole
DETAILED BY: C. Cole

TRACED BY: C. Cole
CHECKED BY: H. Server

Webster COUNTY

PROJECT NUMBER

F-7-5(9)--20-94

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	5		6	8