

ABUTMENT REPAIR

LETTING DATE

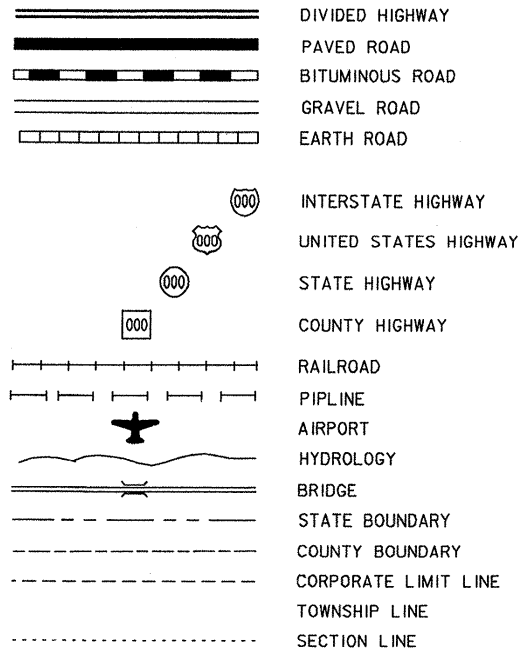
JUL 11, 2000

BRFN-926-0(6)--39-94

WEBSTER COUNTY - DESIGN NO. 201

WEBSTER COUNTY

CONVENTIONAL SIGNS



Iowa Department of Transportation

Project Development Division

PLANS OF PROPOSED IMPROVEMENTS ON THE

PRIMARY ROAD SYSTEM

WEBSTER COUNTY

ABUTMENT REPAIR

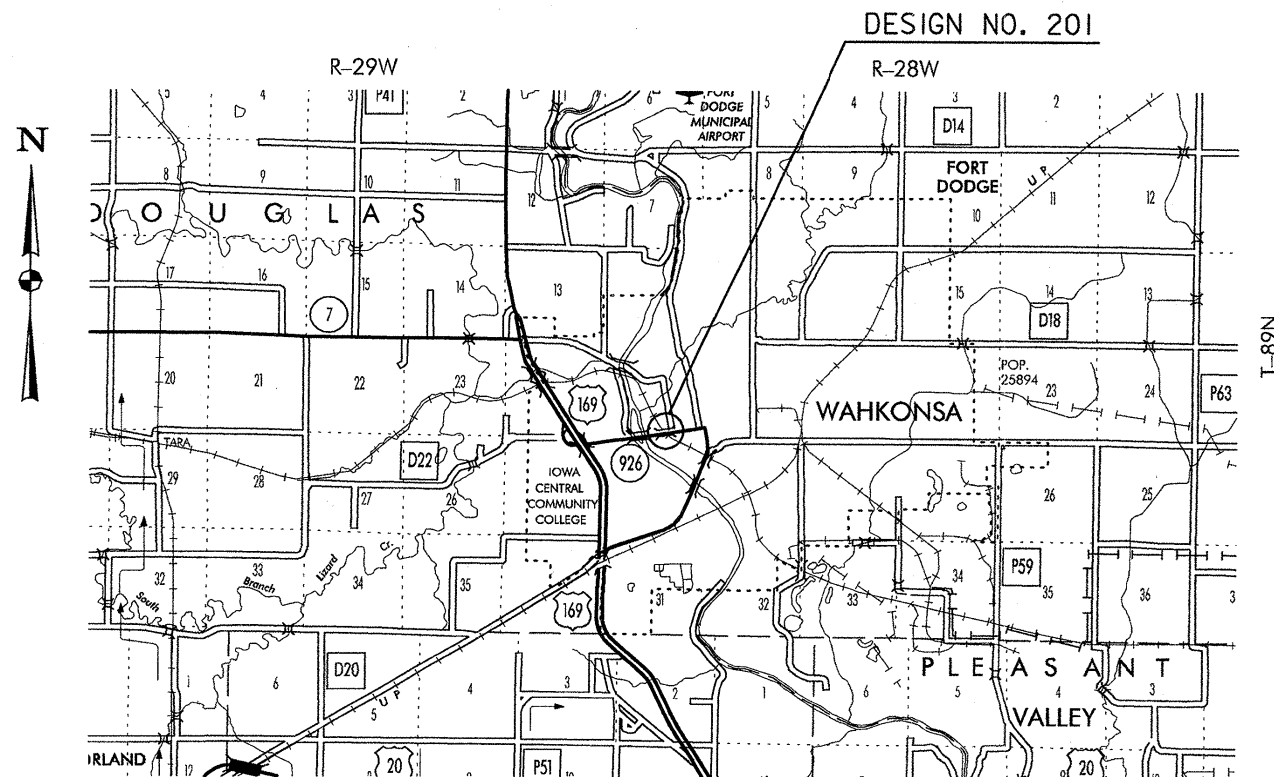
ON IA. 926

OVER C.C. RAILROAD AND 2nd ST. S.W.

SCALES: As Noted

The Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, series of 1997, plus current supplemental specifications and special provisions shall apply to construction work on this project.

Value Engineering Saves. Refer to General Notes on Sheet 2



388
BB

Corrected By DAVID MARTIN 2000
Checked By J. Summers 2000

PROJECT DIRECTORY NAME: 94926010A00

DESIGN TEAM: WHKS & Co.

ENGLISH

IOWA DOT * OFFICE OF BRIDGES AND STRUCTURES

FILE NO. 29544

WEBSTER COUNTY

PROJECT NUMBER BRFN-926-0(6)--39-94

SHEET NUMBER 1

TOTAL SHEETS

12

PROJECT NUMBER

BRFN-926-0(6)--39-94

R.O.W. PROJECT NUMBER

PROJECT IDENTIFICATION NUMBER

00-94-010-1

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	SITUATION PLAN AND QUANTITIES
3	BACKWALL REPAIR DETAILS
4	ABUTMENT REPAIR DETAILS
5	CONCRETE REPAIR DETAILS
6	ROADWAY QUANTITIES
7	TRAFFIC CONTROL PLAN
8-10	TABULATIONS & DETAILS
11-12	SPECIAL TRAFFIC CONTROL LAYOUT

Form 520003 12-87



I hereby certify that this project was constructed in accordance with the contract documents, the "as-built" plans were prepared under my supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

John M. Heggen
Project Engineer
Date Dec 21, 2000

My license renewal date is December 31, 2002

2000 WELDEN BROS. DAVE MARTIN
Year Contractor Project Inspector

YEAR	WORK	CONTRACTOR	PROJ. INSPECTOR
2000	ABUTMENT REPAIR	WELDEN BROS.	DAVE MARTIN

STANDARD ROAD PLANS

STANDARD ROAD PLANS ARE LISTED ON SHEET 6

DESIGN DATA RURAL

2001 AADT 3680 V.P.D.

REVISIONS

INDEX OF SEALS

SHEET NO.	NAME	TYPE
1	VENKATESH SESHAPPA	PRIMARY SIGNATURE BLOCK
6	ROBERT A. WELPER	ROADWAY DESIGN



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Venkatesh Seshappa 4/4/00
Venkatesh Seshappa, P.E. Date

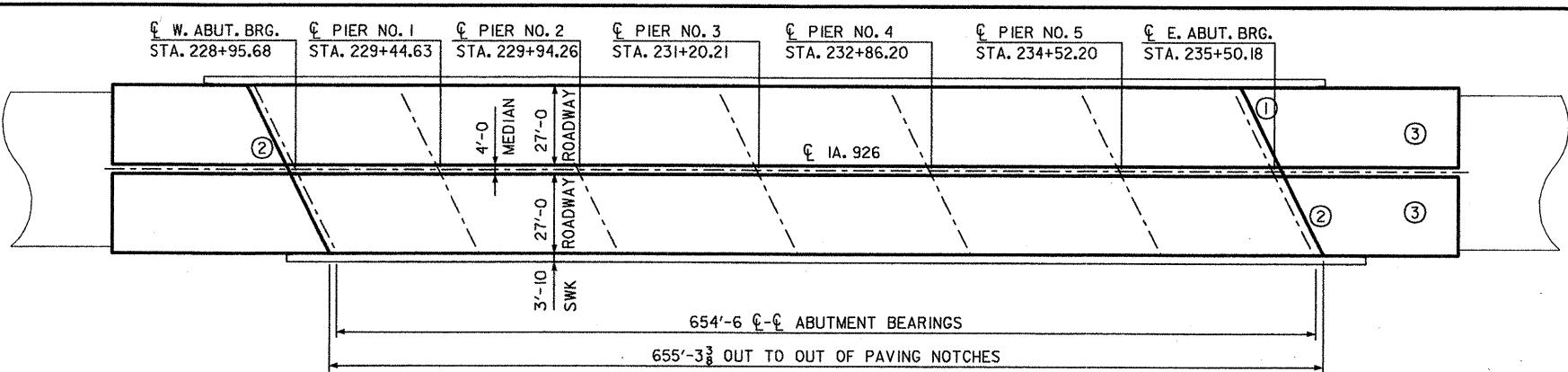
License Number 14006

My license renewal date is December 31, 2000

Pages or sheets covered by this seal:
SHEETS 1 THRU 5 OF 12

MICROFILMED

14 APR 2000
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WHKS JOB NO. 5800.04



SITUATION PLAN

GENERAL NOTES:

THIS DESIGN IS FOR REPAIRS TO THE EXISTING DUAL 654' X 58' CONTINUOUS STEEL GIRDER BRIDGE ON 1A. 926 OVER C.C. RAIL ROAD AND 2ND STREET SOUTHWEST IN FORT DODGE. COPIES OF THE ORIGINAL DESIGN AND OVERLAY PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT THE OFFICE OF CONTRACTS - PROJECT DEVELOPMENT DIVISION - IOWA D.O.T. - AMES.

- REPAIR SHALL CONSIST OF:
- ① BACKWALL AND EXPANSION JOINT REPAIR OF THE EAST ABUTMENT.
 - ② CONCRETE REPAIR AND CONCRETE SEALER AT BOTH ABUTMENTS.
 - ③ REMOVING AND REPLACING APPROACH PAVEMENT AT EAST ABUTMENT.

ALL DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PERTINENT TO NEW CONSTRUCTION IN RELATION TO EXISTING PORTIONS OF THE STRUCTURE SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING CONSTRUCTION. ALL DIMENSIONS REQUIRED TO FABRICATE NEW STRUCTURAL STEEL SHALL BE FIELD VERIFIED BY THE CONTRACTOR

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE BRIDGE CONTRACTOR OF THE STARTING DATE.

PLAN QUANTITY OF ABUTMENT REPAIR IS BASED ON THE ABUTMENT REPAIR AREAS AS SHOWN IN THESE PLANS. HATCHED PORTIONS REPRESENT SHALLOW CONCRETE REPAIR. CROSS HATCHED PORTIONS, IF SHOWN, REPRESENT REGULAR CONCRETE REPAIR. ACTUAL SPALLED AND HOLLOW AREAS, AS DETERMINED BY THE ENGINEER UPON COMPLETION OF THE REMOVAL OF CONCRETE DOWN TO THE CLASSIFICATION LINE, SHALL BE REPAIRED.

A SCRAPE SAMPLE WAS TAKEN FROM AN AREA OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE OF AND LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF TOTAL LEAD ON THIS SAMPLE WAS 775 PARTS PER MILLION (PPM). ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS <50 PPM. THESE ANALYSES SHOW THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS. LEVELS INDICATED BY THESE TESTS COULD CREATE CONDITIONS ABOVE REGULATORY LIMITS FOR HEALTH AND SAFETY REQUIREMENTS. NO OTHER CONSTITUENTS WERE ANALYZED. THE BIDDER SHOULD NOT RELY ON THE DEPARTMENT'S TESTING AND ANALYSIS FOR ANY PURPOSE OTHER THAN AS AN INDICATION OF THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS.

CONCRETE SEALER IS TO BE APPLIED TO THE FOLLOWING AREAS IN ACCORDANCE WITH SUB ARTICLE 2403.21:
1. ABUTMENT FACE AND SEAT OF BOTH EAST AND WEST ABUTMENTS.

CONSTRUCTION SHALL BE DONE IN STAGES WITH AT LEAST ONE LANE TRAFFIC IN EACH DIRECTION MAINTAINED AT ALL TIMES IN ACCORDANCE WITH 'TRAFFIC CONTROL PLAN' NOTE.

REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401 OF THE SPECIFICATIONS. ANY DAMAGE TO ANY STEEL OR CONCRETE NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRED AT NO EXTRA COST TO THE STATE

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

ALL COURSE AGGREGATE FOR STRUCTURAL CONCRETE SHALL BE CRUSHED LIMESTONE.

SPECIFICATIONS:
CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT SERIES, PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN STRESSES:
DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 1996.
CONCRETE IN ACCORDANCE WITH SECTION 8, f'c = 3,500 PSI.
REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60.
STRUCTURAL STEEL IN ACCORDANCE WITH SECTION 10, ASTM A-36.

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNITS	QUANTITY	AS BUILT QUANTITY
1	2401-6750001	REMOVALS, AS PER PLAN	LS	1.000	1.000
2	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	3.170	3.730
3	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	192.000	192.000
4	2408-7800000	STRUCTURAL STEEL	LB	1394.000	1394.000
5	2426-6772016	CONCRETE REPAIR	SF	28.000	90.703
6	2533-4980005	MOBILIZATION	LS	1.000	1.000

ESTIMATE REFERENCE INFORMATION

DATA LISTED BELOW IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT CONSTITUTE A BASIS FOR ANY EXTRA WORK ORDERS.

ITEM NO.	DESCRIPTION
2	INCLUDES THE COST OF CONCRETE SEALER.

DESIGN HISTORY AT THIS SITE

DES. NO.	TYPE OF WORK
2058	ORIGINAL DESIGN
275	OVERLAY
201	ABUTMENT REPAIR

LOCATION:

MAINTENANCE NO. 9402.35926
ON 1A. 926
OVER C.C. RAILROAD
AND 2nd ST. SW.
T-89N, R-28W
SECTION 19
WAHKONSA TOWNSHIP
WEBSTER COUNTY

DESIGN FOR REPAIR TO 26°24' SKEW
654'-6" x 58' CONTINUOUS
WELDED PLATE GIRDER BRIDGE

SITUATION PLAN AND QUANTITIES

STATION: 228+95.68
STATION: 235+50.18
MARCH, 2000

WEBSTER COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT DIVISION
DESIGN SHEET NO. 1 OF 4
FILE NO. 29544
DESIGN NO. 201

WHKS & CO.

ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IA DUBUQUE, IA AMES, IA ROCHESTER, MN

THE CONTRACTOR IS ENCOURAGED TO TAKE FULL ADVANTAGE OF SPECIFICATION 1105.15 -- VALUE ENGINEERING INCENTIVE PROPOSAL. A PAMPHLET AND CONCEPTUAL PROPOSAL FORM WILL BE AVAILABLE AT THE PRECONSTRUCTION CONFERENCE.

TRAFFIC CONTROL PLAN:
THE ROADWAY WILL BE OPEN TO THRU TRAFFIC.
REFER TO THE TRAFFIC CONTROL PLAN SHOWN ELSEWHERE IN THESE PLANS.

NOTE:
ROADWAY QUANTITIES SHOWN ELSEWHERE IN THESE PLANS.

DESIGNED BY V.S. CHECKED BY S.T.S.
DETAILED BY T.E.A. CADD FILE H940201.S01

WEBSTER COUNTY

PROJECT NUMBER
BRFN-926-0(6)--39-94

STATE	FWHA	FISCAL	SHEET	TOTAL
IOWA	7	YEAR	2	12

14 APR 2000

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WHKS JOB NO. 5800.04

CONCRETE PLACEMENT QUANTITIES

TYPE	UNITS	QUANTITY
SHALLOW REPAIR	SQ. FT.	0.0
REGULAR REPAIR	SQ. FT.	55.38
TOTAL (SQ. FT.)		55.38

LEGEND

- INDICATES SHALLOW REPAIR
- INDICATES REGULAR REPAIR.

STRUCTURAL CONCRETE QUANTITIES-CY

LOCATION	QUANTITY
EAST ABUT, W.B.L.	1.936
EAST ABUT, E.B.L.	1.800

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	3.736
REINFORCING STEEL, EPOXY COATED	LB	192.000
STRUCTURAL STEEL	LB	1394.000

EPOXY COATED REINFORCING STEEL

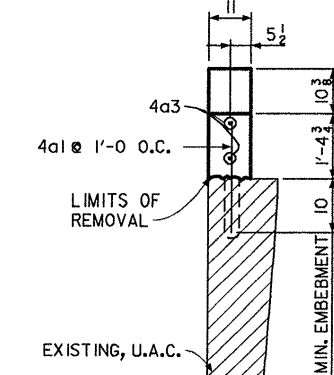
MARK	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
4a1	BACKWALL, VERTICAL DOWELS		58	2'-6	97.0
4a2	MEDIAN, DOWELS		2	7'-4	10.0
4a3	BACKWALL, LONGITUDINAL		4	31'-10	85.0
TOTAL (lbs)					192.0

NOTE:
ALL DIMENSIONS AND REPAIR LOCATIONS ARE APPROXIMATE. ACTUAL REPAIR AREAS TO BE DETERMINED AT THE TIME OF CONSTRUCTION. TOP OF ABUTMENTS MAY REQUIRE CONCRETE REPAIR, BUT ARE NOT SHOWN.

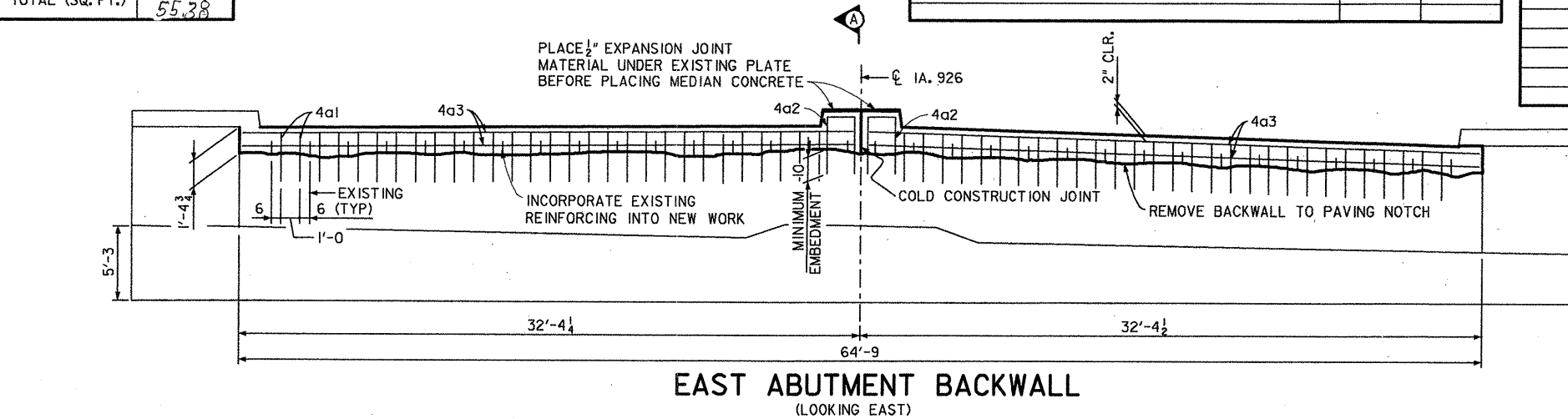
EXISTING REINFORCING BARS THAT ARE EXPOSED BY CONCRETE REMOVAL SHALL BE CLEANED AND CAREFULLY INCORPORATED INTO THE NEW WORK WHERE NOTED OR SHOWN. REINFORCING BARS WHICH ARE DAMAGED OR RENDERED UNSERVICEABLE BY REMOVAL OPERATIONS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

DOWEL SETTING NOTE:

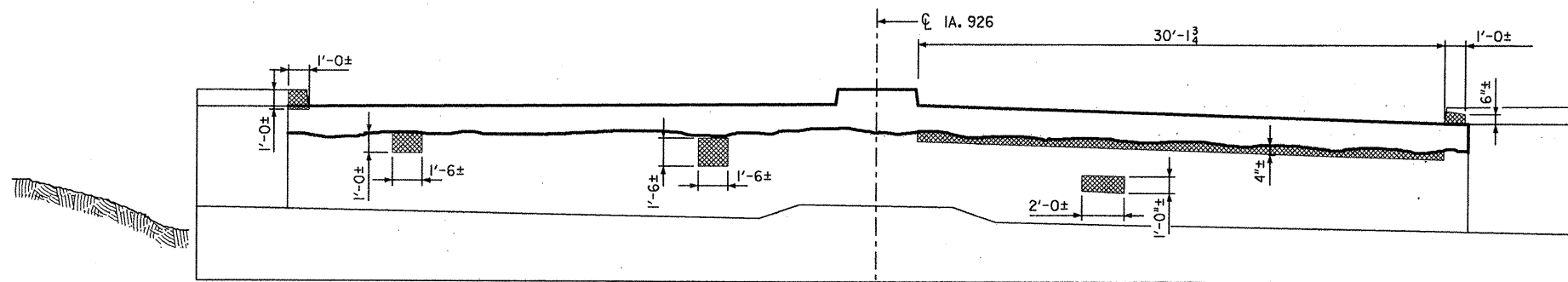
THE 4a1 AND 4a2 BARS SHALL BE SET AS DOWELS IN DRILLED HOLES. CONTRACTOR SHALL SPACE 4a1 BARS BETWEEN EXISTING VERTICAL BARS. CONTRACTOR MAY ADJUST NEW BARS AS NECESSARY SO EXISTING BARS DO NOT INTERFERE. THE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BONDING AGENT USED SHALL BE AN EPOXY GROUT SYSTEM IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 2301.12 AND CURRENT SUPPLEMENTAL SPECIFICATIONS OF THE IOWA D.O.T. HIGHWAY DIVISION.



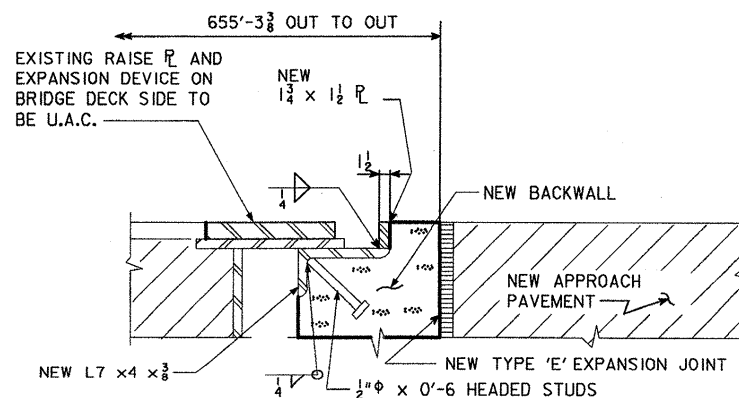
SECTION A-A
THRU BACKWALL



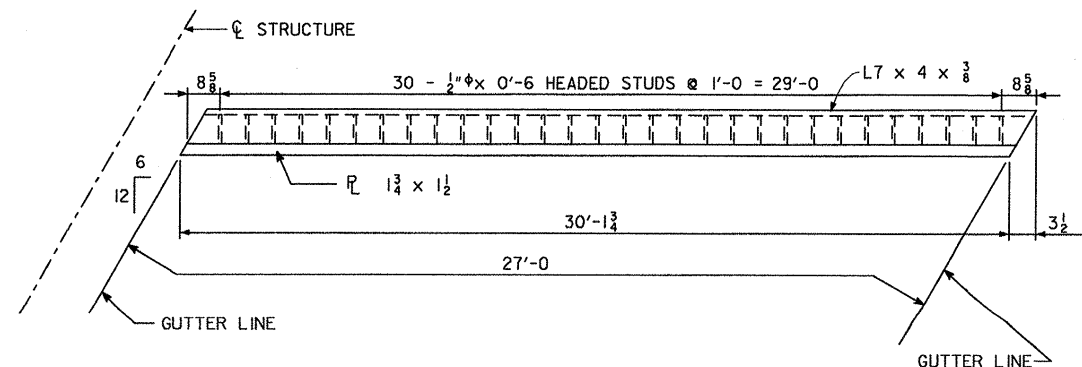
EAST ABUTMENT BACKWALL
(LOOKING EAST)



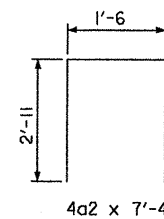
EAST ABUTMENT REPAIR AREAS
(LOOKING EAST)



PART LONGITUDINAL SECTION ALONG ROADWAY
EAST ABUTMENT ONLY



EXPANSION PLATE DETAILS
EAST ABUTMENT ONLY
(2 REQUIRED)



BENT BAR DETAIL

DESIGN FOR REPAIR TO 26°24' SKEW
654'-6 x 58' CONTINUOUS
WELDED PLATE GIRDER BRIDGE

EAST ABUT. BACKWALL REPAIR

STATION: 228+95.68
STATION: 235+50.18

MARCH, 2000

WEBSTER COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT DIVISION
DESIGN SHEET NO. 2 OF 4 FILE NO. 29544 DESIGN NO. 201

WHKS & CO.

ENGINEERS PLANNERS LAND SURVEYORS
MASON CITY, IA DUBUQUE, IA AMES, IA ROCHESTER, MN

DESIGNED BY V.S. CHECKED BY S.T.S.
DETAILED BY T.E.A. CADD FILE H940201.S02

WEBSTER COUNTY

PROJECT NUMBER

STATE	FHWA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	7		3	12

14 APR 2000

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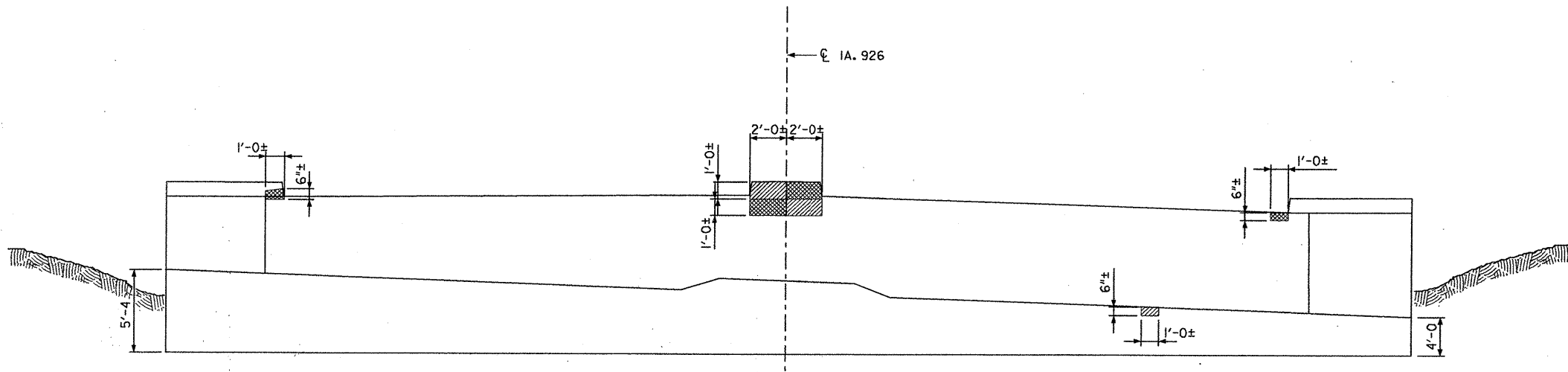
WHKS JOB NO. 5800.04

CONCRETE PLACEMENT QUANTITIES

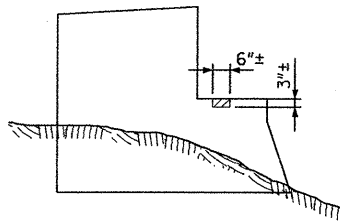
TYPE	UNITS	QUANTITY
SHALLOW REPAIR	SQ. FT.	0.0
REGULAR REPAIR	SQ. FT.	35.32
TOTAL (SQ. FT.)		35.32

LEGEND

- INDICATES SHALLOW REPAIR
INDICATES REGULAR REPAIR.

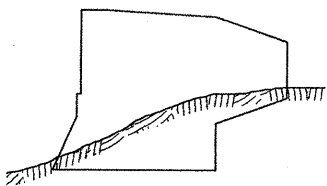


WEST ABUTMENT REPAIR AREAS
(LOOKING WEST)



SOUTH WING

NOTE:
ALL DIMENSIONS AND REPAIR LOCATIONS ARE APPROXIMATE. ACTUAL REPAIR AREAS ARE TO BE DETERMINED AT THE TIME OF CONSTRUCTION. TOP OF ABUTMENTS MAY REQUIRE CONCRETE REPAIR, BUT ARE NOT SHOWN.



NORTH WING



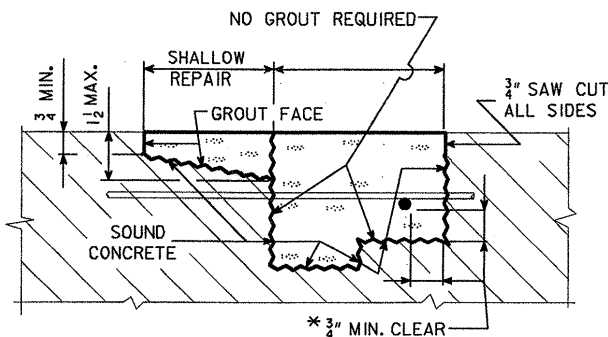
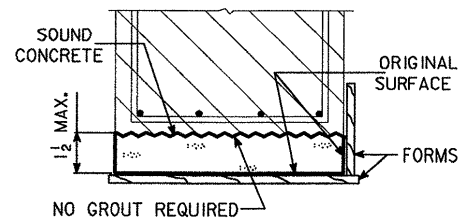
DESIGNED BY V.S. CHECKED BY S.T.S.
DETAILED BY T.E.A. CADD FILE H940201S03

WEBSTER COUNTY

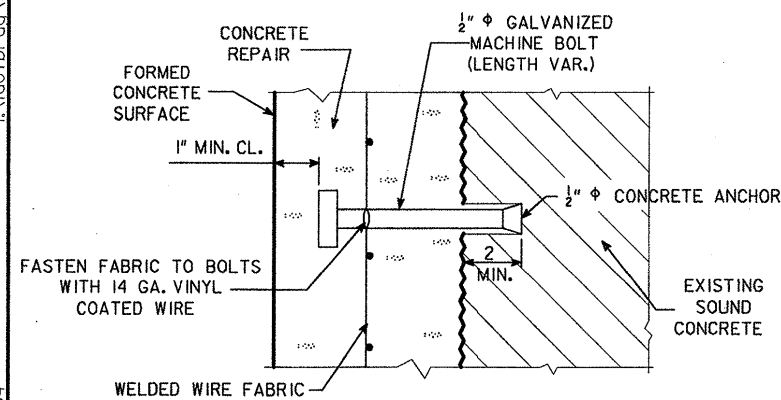
PROJECT NUMBER

DESIGN FOR REPAIR TO 26°24' SKEW
**654'-6 x 58' CONTINUOUS
WELDED PLATE GIRDER BRIDGE**
WEST ABUTMENT REPAIR DETAILS
STATION: 228+95.68
STATION: 235+50.18
MARCH, 2000
WEBSTER COUNTY
IOWA DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT DIVISION
DESIGN SHEET NO. 3 OF 4 FILE NO. 29544 DESIGN NO. 201

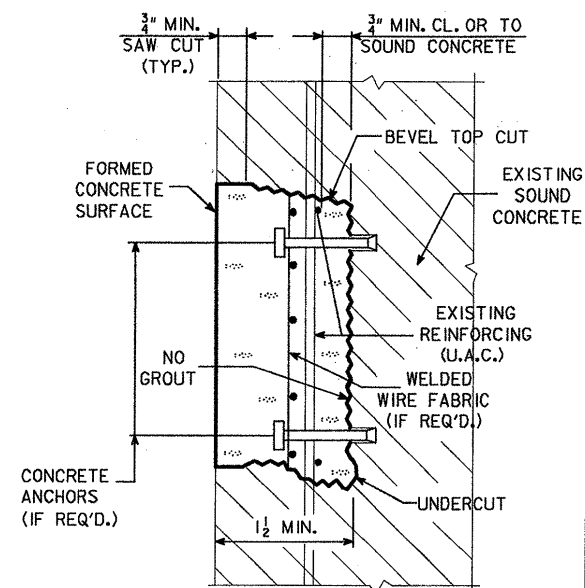
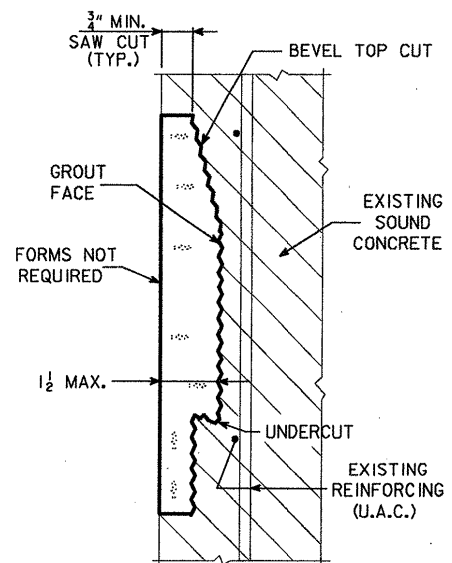
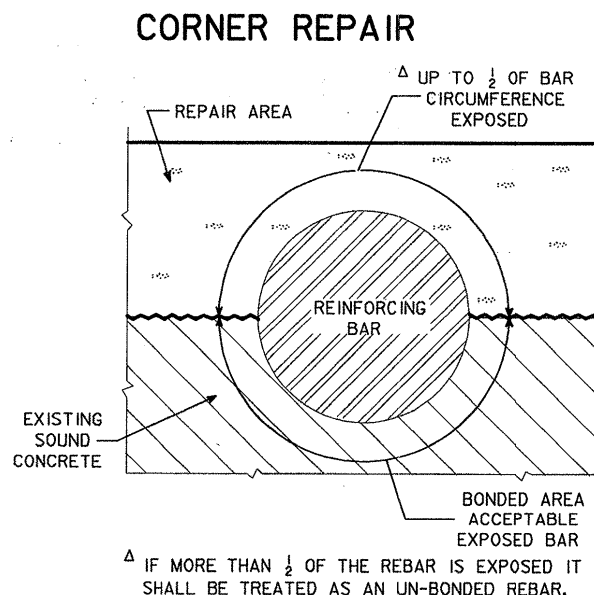
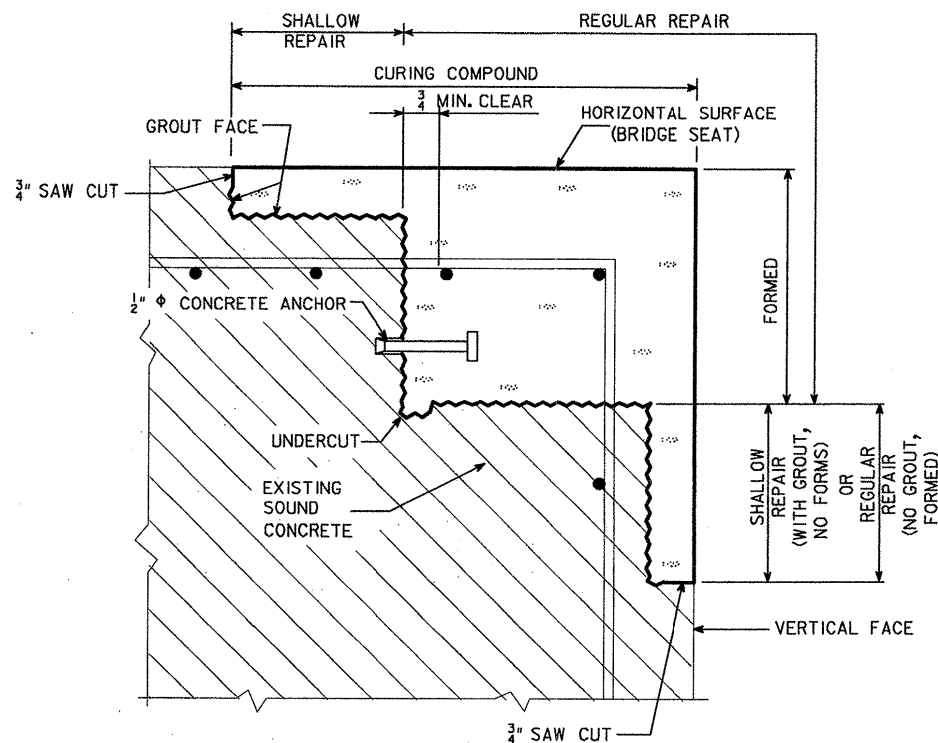
STATE	FHWA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	7		4	12



* INDICATES CLEARANCE FOR AN UN-BONDED REBAR.



FOR SPACING AND USE OF CONCRETE ANCHORS
AND WWF SEE THE STANDARD NOTES.



STANDARD NOTES:

THE SPALLED AND HOLLOW AREAS OF THIS BRIDGE AS NOTED AND SHOWN IN THESE PLANS SHALL BE REPAIRED AS FOLLOWS:

ALL THE COSTS OF EQUIPMENT AND MATERIALS REQUIRED TO REPAIR THE SPALLED AND HOLLOW AREAS OF THIS BRIDGE SHALL BE INCLUDED IN THE PRICE BID FOR "CONCRETE REPAIR".

THE PRICE BID FOR "CONCRETE REPAIR" SHALL INCLUDE THE COST OF ALL CONCRETE ANCHORS AND MESH REQUIRED BY THE PLANS.

THE ENGINEER SHALL DETERMINE AND OUTLINE BY VISUAL AND AUDIBLE INSPECTION THE ACTUAL AREAS OF THE CONCRETE REPAIRS. THE CONTRACTOR SHALL BE PAID FOR THE ACTUAL AMOUNT OF REPAIRS MADE ON A SQUARE FOOT BASIS BASED ON THE PRICE BID PER SQUARE FOOT.

ALL EXISTING REINFORCING BARS THAT ARE EXPOSED BY CONCRETE REMOVAL SHALL BE CLEANED AND CAREFULLY INCORPORATED INTO THE NEW WORK, EXCEPT BADLY DETERIORATED EXISTING REINFORCING WHICH SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.

THE CONCRETE ANCHORS REQUIRED SHALL HAVE A MINIMUM PULL OUT OF 5000 LBS. BASED ON 4000 PSI CONCRETE. AN ANCHOR MEETING THE REQUIREMENTS OF IOWA D.O.T. MATERIALS I.M. 453.09 AND THE PULL OUT LOAD ABOVE IS REQUIRED. THE ANCHORS SHALL BE GALVANIZED AND SHALL BE INSTALLED ACCORDING TO RECOMMENDATIONS OF THE MANUFACTURER. THE COST OF FURNISHING AND INSTALLING THE CONCRETE ANCHORS SHALL BE INCLUDED IN THE PRICE BID FOR "CONCRETE REPAIR".

THE WELDED WIRE FABRIC SHALL BE ASTM A185 AND GALVANIZED AS PER ASTM A-641. THE WWF WIRES SHALL BE SPACED 3 X 3 OR 4 X 4 AND THE WIRES SHALL HAVE A NOMINAL AREA OF 0.014 TO 0.029 SQUARE INCHES INCLUSIVE, EXAMPLE "WWF 3 X 3 - W1.4 X W2.9".

WHERE REINFORCEMENT HAS BEEN EXPOSED AND CLEARANCE AROUND THE PERIPHERY OF THE EXISTING BAR IS PROVIDED NO SUPPLEMENTAL REINFORCING IS REQUIRED, EXCEPT WHERE EXISTING REINFORCEMENT DENSITY AND PATTERN ARE SUCH THAT INDIVIDUAL OPEN SPACES BETWEEN BARS ARE OF 1.5 SQUARE FEET OR LARGER. FOR THIS CONDITION, 1/2" CONCRETE ANCHORS AND WELDED WIRE FABRIC SHALL BE INSTALLED AT THE RATE OF ONE CONCRETE ANCHOR WITH WWF PER EACH 1.5 SQUARE FEET OF AREA WITHIN EACH OPEN SPACE.

SEE "STRUCTURAL CONCRETE REPAIR" IN CURRENT STANDARD SPECIFICATIONS FOR MORE INFORMATION CONCERNING THIS WORK.

CONCRETE PLACEMENT QUANTITIES

MARK	TYPE	UNITS	QUANTITY
①	SHALLOW REPAIR	SQ. FT.	0
②	REGULAR REPAIR	SQ. FT.	90.703
TOTAL (SQ. FT.)			

SEE DESIGN SHEETS 2 AND 3 FOR CONCRETE REPAIR AREAS.

ESTIMATED CONCRETE REPAIR QUANTITIES

DESCRIPTION	UNITS	AMOUNT
CONCRETE REPAIR	SQ. FT.	90.703

DESIGN FOR REPAIR TO 26°24' SKEW
654'-6" x 58' CONTINUOUS
WELDED PLATE GIRDER BRIDGE

CONCRETE REPAIR DETAILS

STATION: 228+95.68
STATION: 235+50.18

MARCH, 2000

WEBSTER COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT DIVISION
DESIGN SHEET NO. 4 OF 4 FILE NO. 29544 DESIGN NO. 201

DESIGNED BY V.S. CHECKED BY S.T.S.
DETAILED BY T.E.A. CADD FILE H940201.S04

STANDARD SHEET 1045

WEBSTER COUNTY

PROJECT NUMBER

STATE	FHWA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	7		5	12

100-0A
10-28-97

ESTIMATE REFERENCE INFORMATION

100-4B
07-15-97

Data listed below is for informational purposes only and shall not constitute a basis for any extra work orders.

STANDARD ROAD PLANS

105-4
12-03-96

The following Standard Road Plans shall be considered applicable to construction work on this project.

Professional Engineer Seal for Robert A. Welper, License No. 12869, State of Iowa.

I hereby certify that this plan was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature _____ Date _____

Printed or Typed Name Robert A. Weiper

My license renewal date is December 31, 2001

Pages or sheets covered by this seal: 6-12

DESIGN TEAM WHKS & CO.

IOWA DOT • OFFICE OF DESIGN

WEBSTER

COUNTY

PROJECT NUMBER

BRFN-926-0(6)--39-94

SHEET NUMBER 6 of 12

(Refer to Standard Road Plan RF-19E, RK-16, RK-19A, RK-19B, RK-19C, RK-19D, RK-19E, RK-19F, RK-19G, RK-19H, or RK-19J)

① Not a bid item

112-6
10-27-98

* Not a bid item.

110-1
04-27-99

STATION TO STATION		PAVEMENT TYPE	AREA Sq. Yds.	SAW CUT Lin. Ft.*	REMARKS
232+22.93	Lt.	PCC	54.587	31	East Bridge Approach
	Rt.	PCC	55.387	28	East Bridge Approach
	Lt.	PCC	46.0	278	Median Curb
	Rt.	PCC	46.0	278	Median Curb

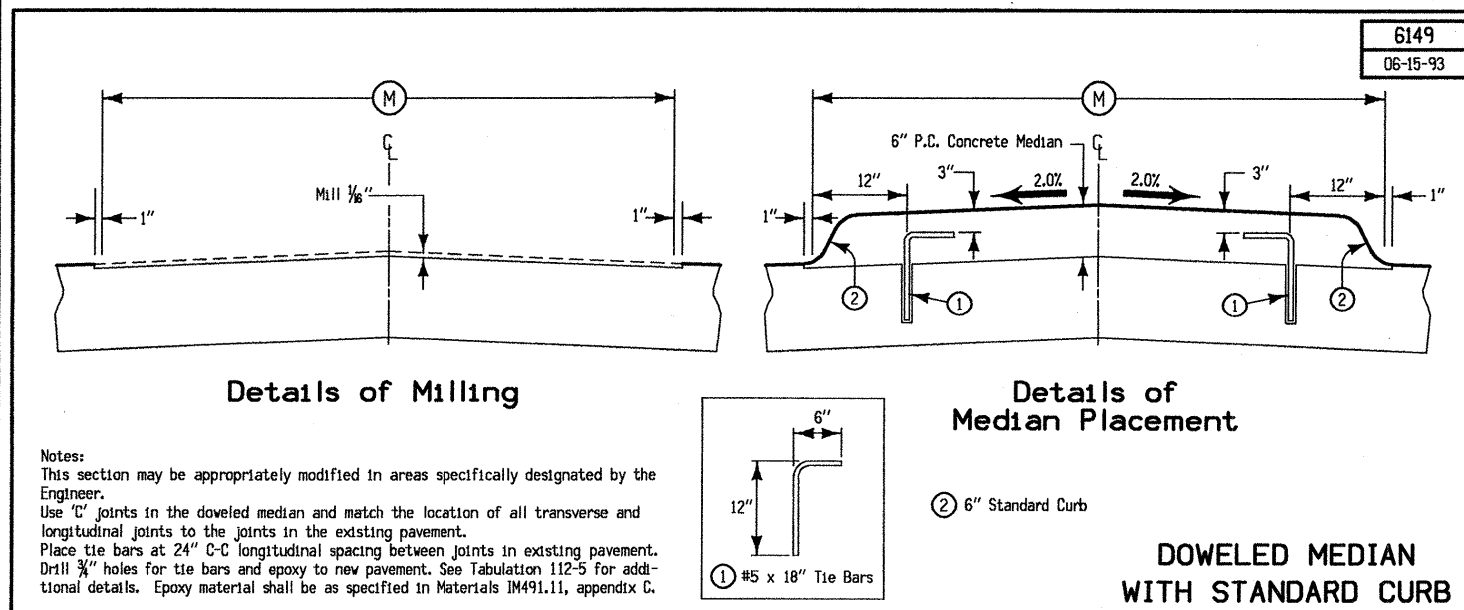
112-5
04-18-80

Technical drawing of a 6" standard curb. The drawing shows a cross-section of the curb with the following dimensions and features:

- Overall Height:** 6"
- Top Flange Width:** 7 1/2"
- Top Flange Thickness:** 4 1/2"
- Radius:** A 3" radius is indicated at the top outer corner of the curb face.
- Form Grade Elev.:** A callout box points to the top surface of the curb.
- P.C. Conc.:** The curb is constructed of Portland Cement Concrete.
- Normal Slope:** An arrow points to the sloped side of the curb.
- Thickness (T):** A circle with the letter 'T' indicates the thickness of the curb base.

Legend:

- (T) is the thickness specified for pavement
- ③ 3" radius



DESIGN NO. 201
FILE NO. 29544