

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

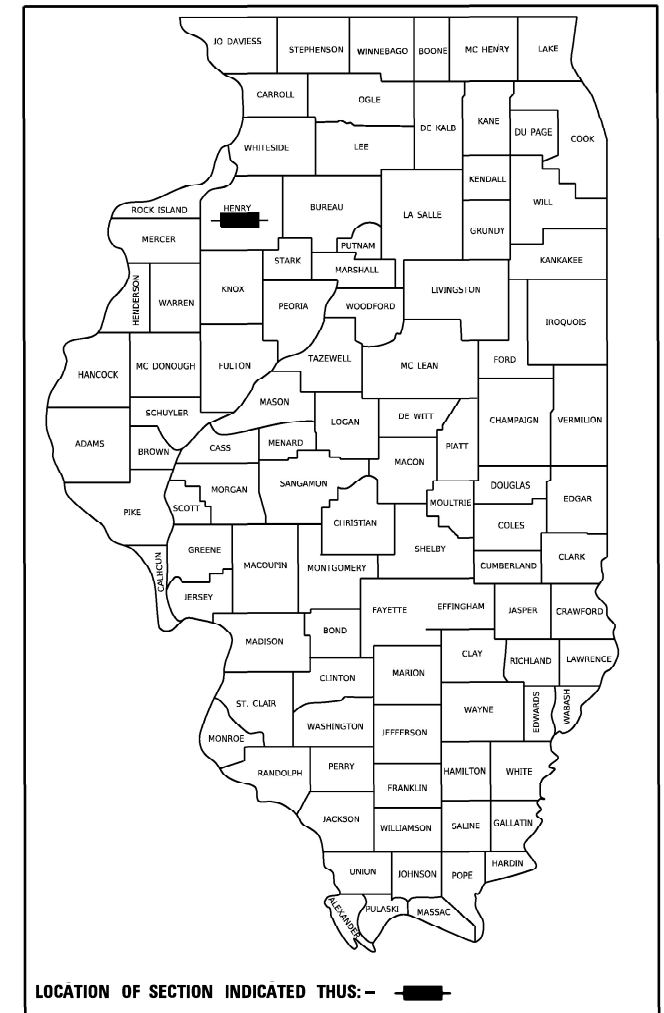
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

**FAI ROUTE 280 (I-280)**  
**SECTION: (81-2B)BP**  
**PROJECT: NHPP-6VR9(062)**  
**TYPE of IMPROVEMENT: BRIDGE PAINTING**  
**ROCK ISLAND COUNTY**

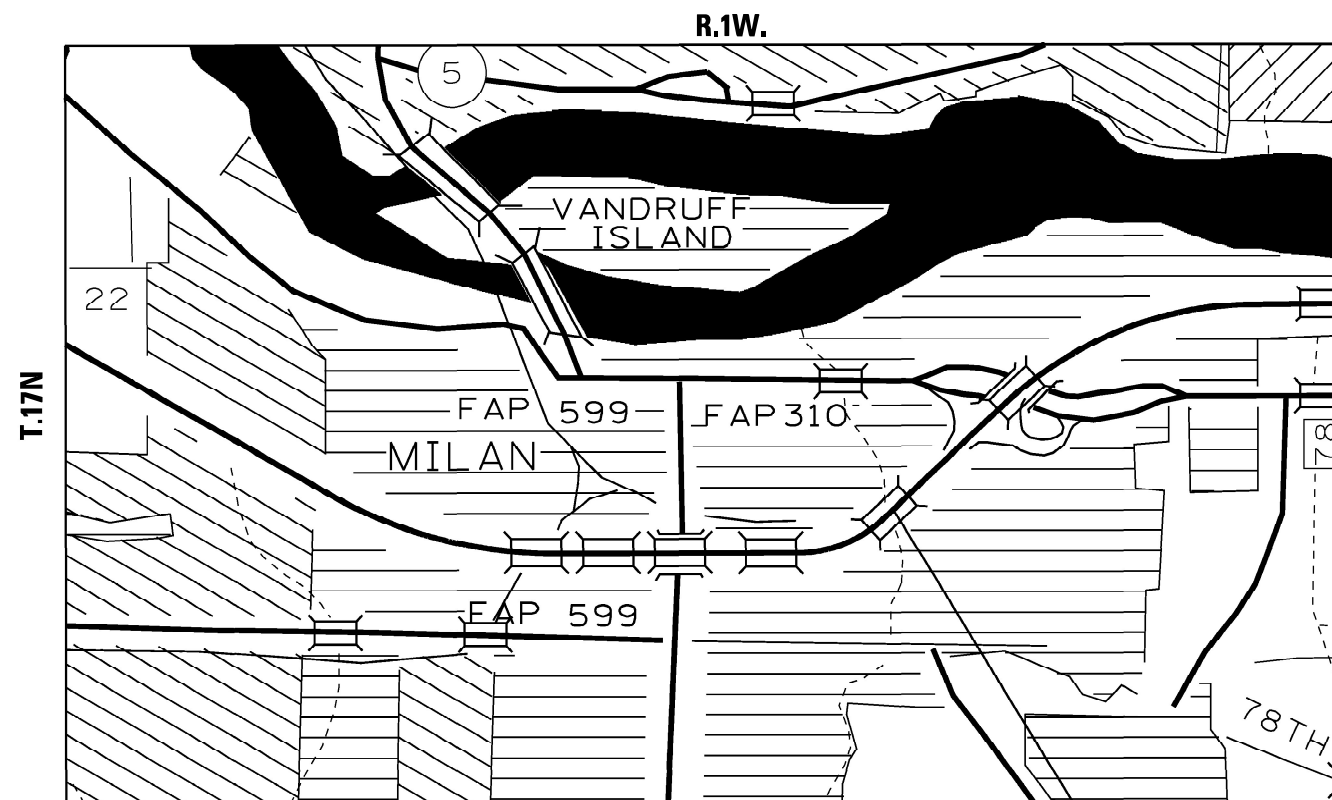
C-92-013-21

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	(81-2B)BP	ROCK ISLAND	10	1
		ILLINOIS	CONTRACT NO. 64P71	

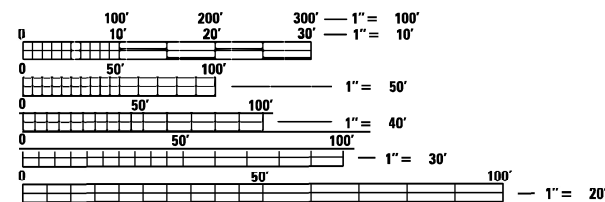
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**ROCK ISLAND COUNTY**  
**COAL VALLEY TOWNSHIP - SECTION 18**



**LOCATION 1**  
**SN 081-0030**  
**LOCATION 2**  
**SN 081-0031**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: DAVID DOSS (815) 284-5416  
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64P71

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 14 20 21  
*[Signature]*  
REGIONAL ENGINEER

March 19, 2021  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

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- 8-10 EXISTING PLAN SHEETS SN 081-0030 & 081-0031 (FOR INFORMATION ONLY)

# STATE STANDARDS

- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS  $\geq$  45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

# GENERAL NOTES

## LOCATION 1 - SN 081-0030

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 1.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 1.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 1.

## LOCATION 2 - SN 081-0031

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 2.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 2.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 2.

## LOCATIONS 1 and 2 - SN's 081-0030 AND 081-0031.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATOR WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD AND SPECIFICATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

THE SSPC QP1 & QP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

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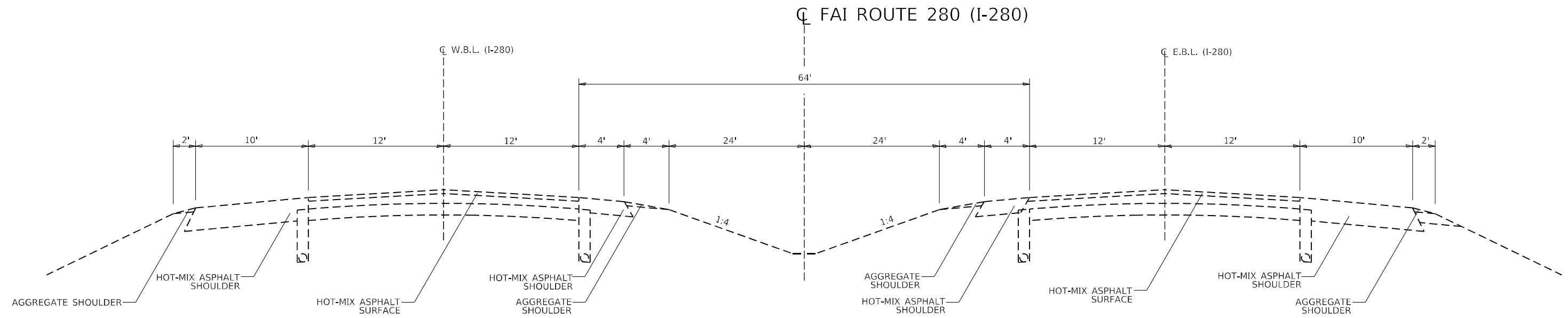
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	CHECKED - _____ DATE - _____	REVISED - _____ REVISED - _____			SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____	CONTRACT NO. 64P71 ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	0047 90% NHPP 10% STATE  ROCK ISLAND COUNTY	URBAN  TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	775	775
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1	1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1

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# EXISTING TYPICAL



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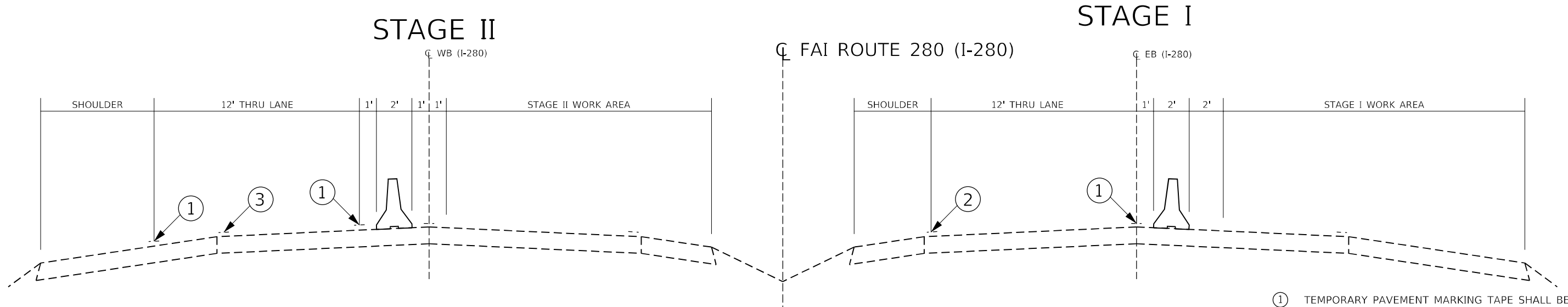
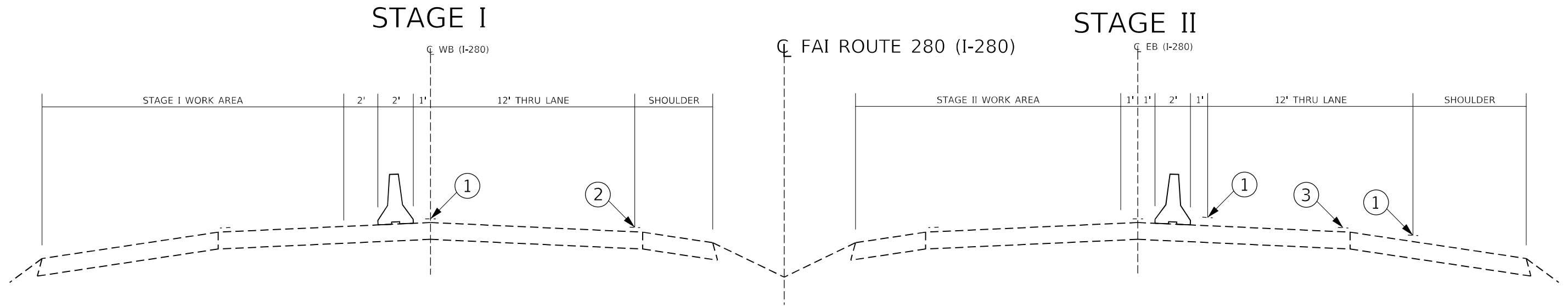
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL**  
 SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE. 280	SECTION (81-28)BP	COUNTY ROCK ISLAND	TOTAL SHEETS 10	SHEET NO. 4
CONTRACT NO. 64P71				
ILLINOIS FED. AID PROJECT				

# STAGING TYPICALS



- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② EXISTING PAVEMENT MARKING LINE
- ③ BLACKOUT TAPE TO COVER CONFLICTING EXISTING PAVEMENT MARKING LINES

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 OFFICE: DISTRICT 2  
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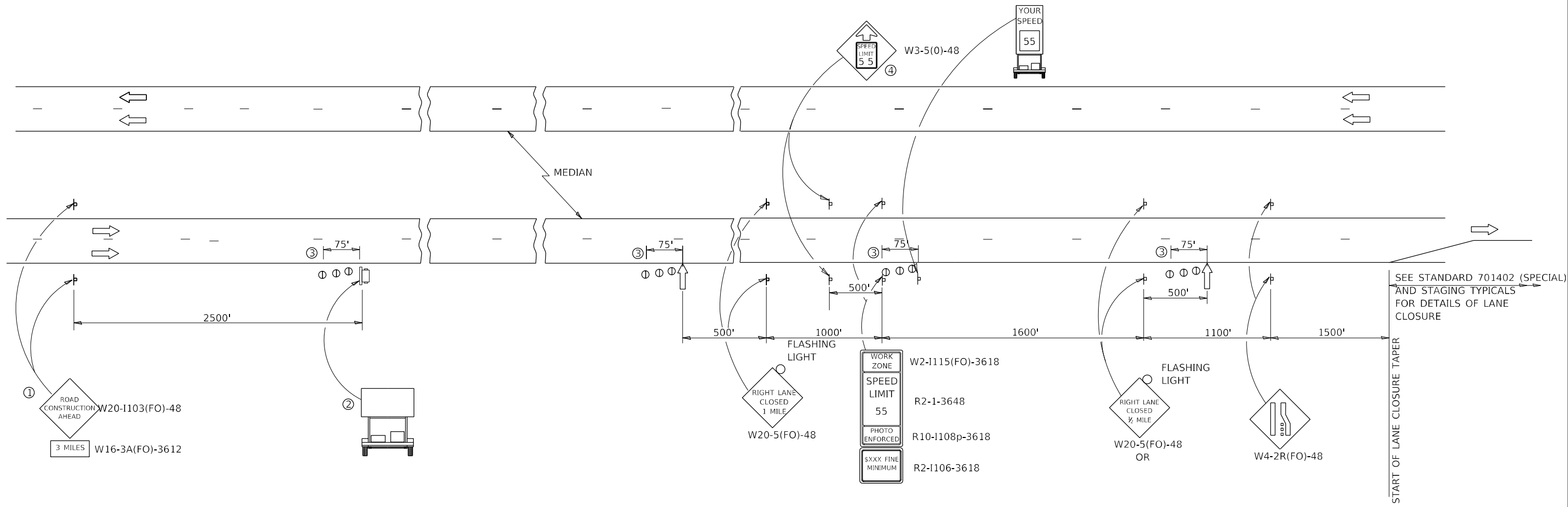
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGING TYPICALS</b>			
SCALE: _____	SHEET _____	OF _____	SHEETS
STA. _____	TO STA. _____		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	(81-28)BP	ROCK ISLAND	10	5
CONTRACT NO. 64P71				
ILLINOIS FED. AID PROJECT				

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- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:  
 "RIGHT LANE CLOSED" / " x MILES AHEAD"  
 "LEFT LANE CLOSED" / " x MILES AHEAD"  
 "ALL LANES OPEN"
- ③ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ④ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TRAILER MOUNTED SPEED DISPLAY SIGN

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

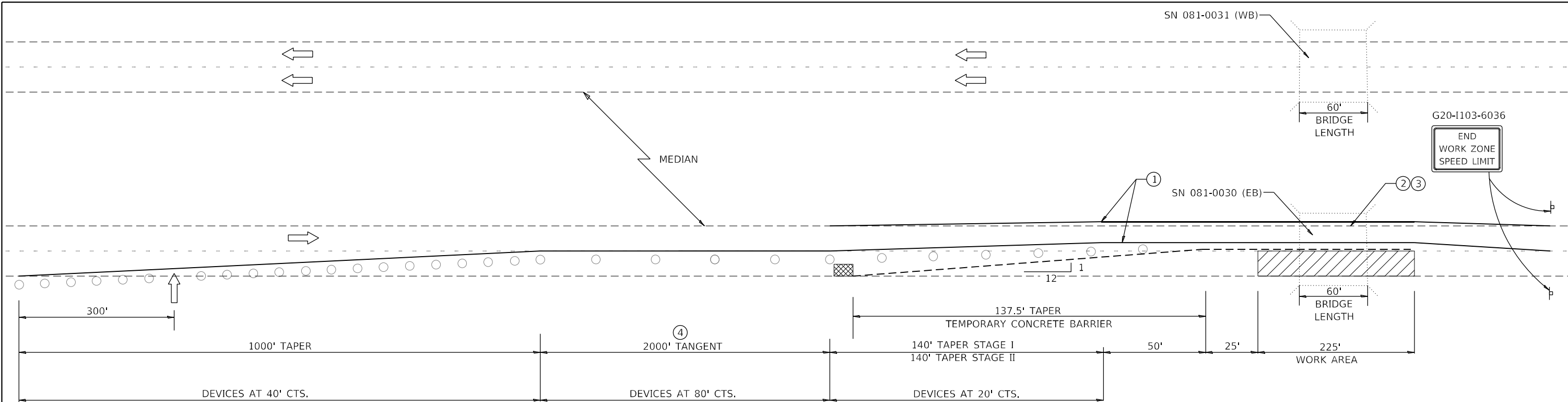
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL)  
FOR SN 081-0030 & 081-0031 CARRYING I-280 OVER CASE CREEK**

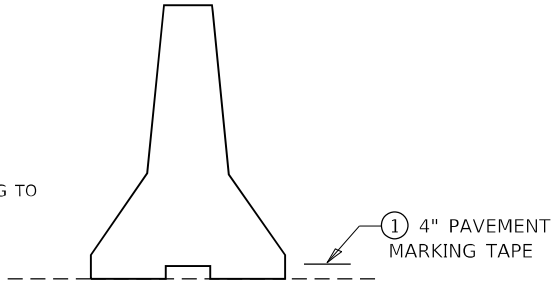
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CONTRACT NO. 64P71				
ILLINOIS FED. AID PROJECT				

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_



SEE STANDARD 701400 (SPECIAL) FOR APPROACH START OF LANE CLOSURE TAPER

\*NO EQUIPMENT OR MATERIALS SHALL ENCROACH WITHIN A DISTANCE OF 2'-0" AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER TO THE  $\phi$  OF ROADWAY



**TEMPORARY CONCRETE BARRIER**

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② EXISTING PAVEMENT MARKING LINE
- ③ BLACKOUT TAPE TO COVER CONFLICTING EXISTING PAVEMENT MARKING LINES
- ④ TANGENT HAS BEEN EXTENDED TO ACCOMODATE THE RAMP, STANDARD 701411 SHALL BE USED WITHIN THIS 2,000' TANGENT SECTION.

**PAVEMENT MARKINGS**

ALL TEMPORARY PAVEMENT MARKING SHALL BE, PAVEMENT MARKING TAPE, TYPE IV 4" AND THE MATERIALS SHALL BE ACCORDING TO ARTICLE 1095.06 OF THE STANDARD AND SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE. THIS WORK SHALL NOT BE PAID SEPERATELY AND SHALL BE INCLUDED IN THE COST OF THE "TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)".

ALL CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PROTECTED PRIOR TO COVERING WITH PAVEMENT MARKING BLACKOUT TAPE, 4". PAVEMENT MARKING BLACKOUT TAPE, 4", SHALL EXTEND A MINIMUM OF 2 INCHES BEYOND THE EXISTING MARKINGS OR REFLECTORS IN ALL DIRECTIONS. THIS WORK SHALL INCLUDE PROTECTING EXISTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS, INSTALLING, MAINTAINING AND REMOVING BLACKOUT TAPE. THIS WORK SHALL NOT BE PAID SEPERATELY AND SHALL BE INCLUDED IN THE COST OF THE "TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)".

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

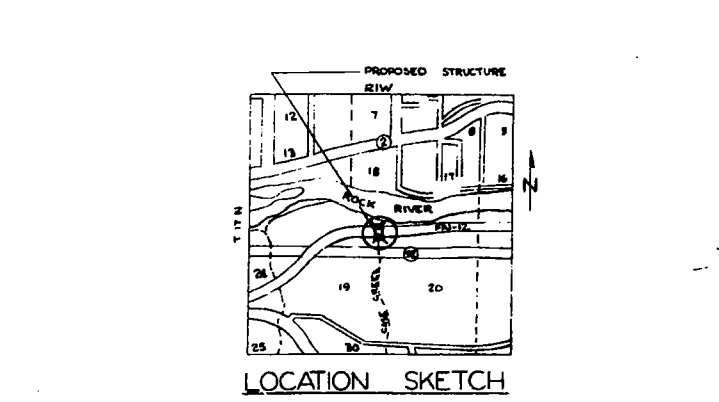
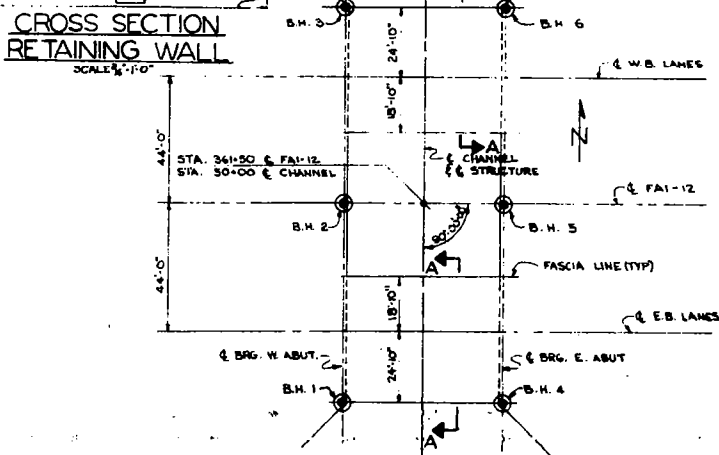
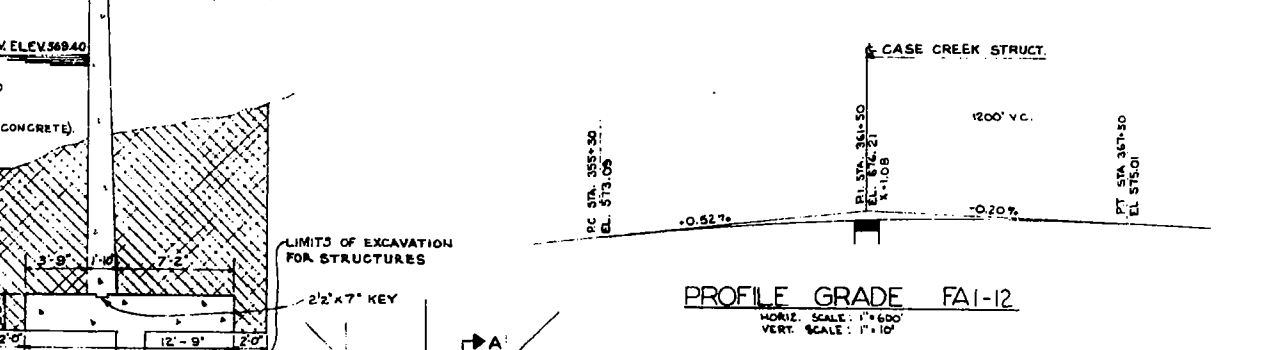
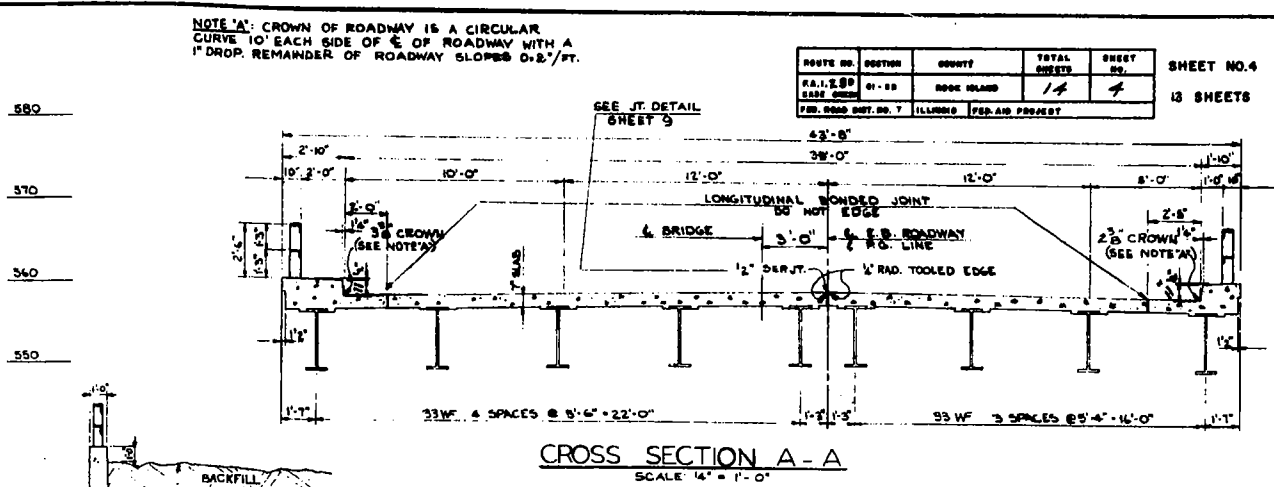
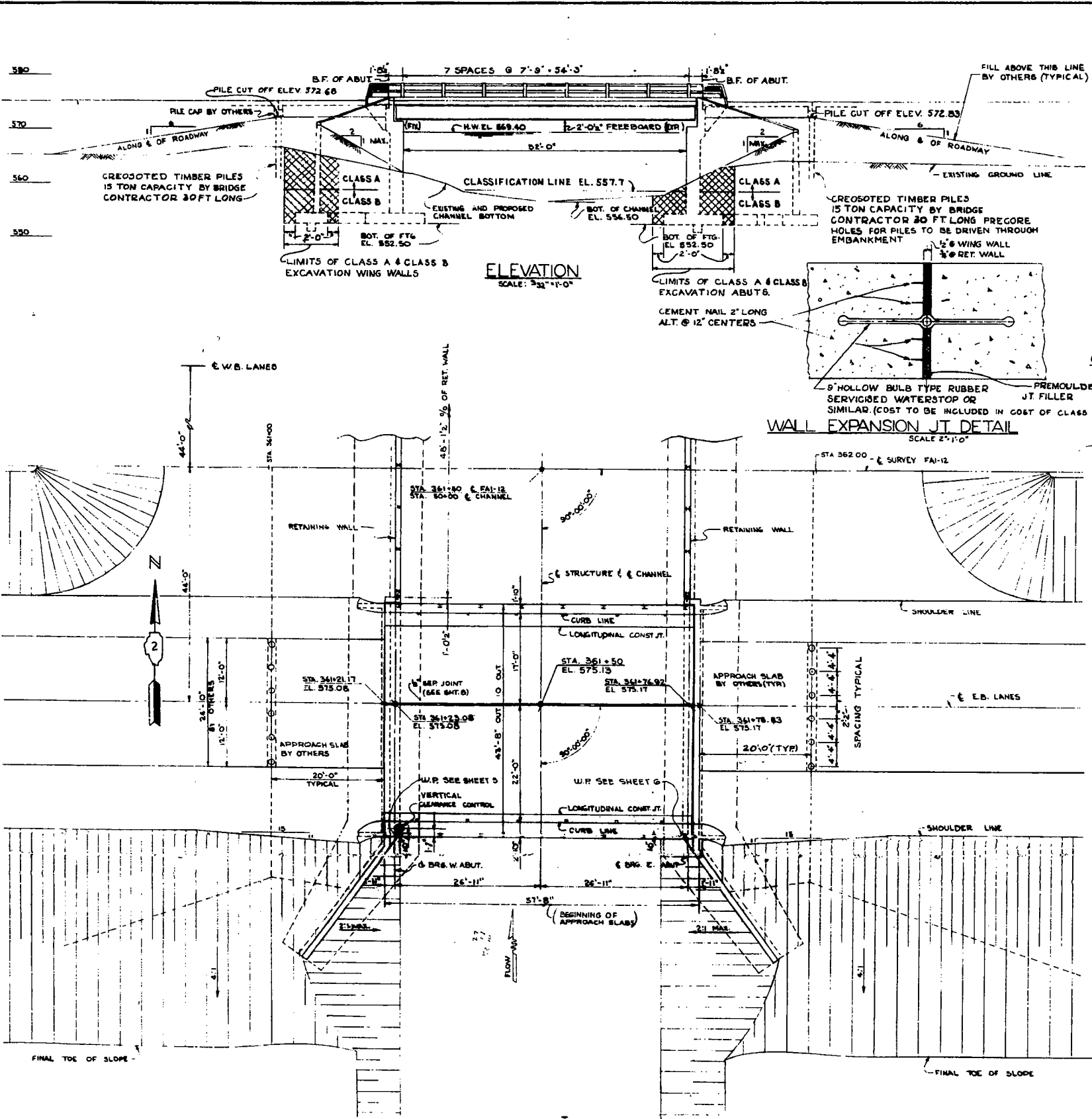
**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)  
FOR SN 081-0030 & 081-0031 CARRYING I-280 OVER CASE CREEK**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	(81-28)BP	ROCK ISLAND	10	7
CONTRACT NO. 64P71				

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.1.250	01-28	ROCK ISLAND	14	4
SHEET NO. 4				
13 SHEETS				



**WATERWAY INFORMATION:**  
 DRAINAGE AREA: 11,500 ACRES  
 CHARACTER: ROLLING, WOODED  
 REQUIRED OPENING: 355 SQ. FT. (150 YEAR FLOOD)  
 PRESENT OPENING: 376.75 SQ. FT. (APPROX. 1200 FT. UPSTREAM)  
 PROPOSED OPENING: 550 SQ. FT.

**CHANNEL CHANGE:**  
 NONE REQUIRED

**DESIGN LOADING:**  
 W20-510 & MODIFIED

**DESIGN STRESSES:**  
 C = 1,400 P.S.I. SUPERSTRUCTURE  
 F<sub>c</sub> = 1,800 P.S.I. SUBSTRUCTURE (CONCRETE WITH EARTH PRESSURE)  
 F<sub>s</sub> = 20,000 P.S.I. WELDS  
 F<sub>t</sub> = 18,000 P.S.I. STRUCTURAL STEEL  
 V = 75 P.S.I. ALLOWABLE SHEAR IN FOOTINGS  
 MAX. TOE PRESS. UNDER FOOTING 5,800 P.S.I.

**BILL OF MATERIALS:**  
 INCLUDES SHEETS 3, 4 & 5

ITEM	UNIT	QUANTITY
BORROW EXCAVATION	CUYDS	5014
FURNISHING CREOSOTED PILES	LN. FT.	720
DRIVING TIMBER PILES	LN. FT.	720
TREE REMOVAL	ACRES	0.6

**GENERAL PLAN & ELEVATION**  
 FA.1.250 SECTION 01-28  
 FA.1.250 OVER CASE CREEK  
 ROCK ISLAND COUNTY  
 STATION 361+50  
 SCALE: AS NOTED DATD

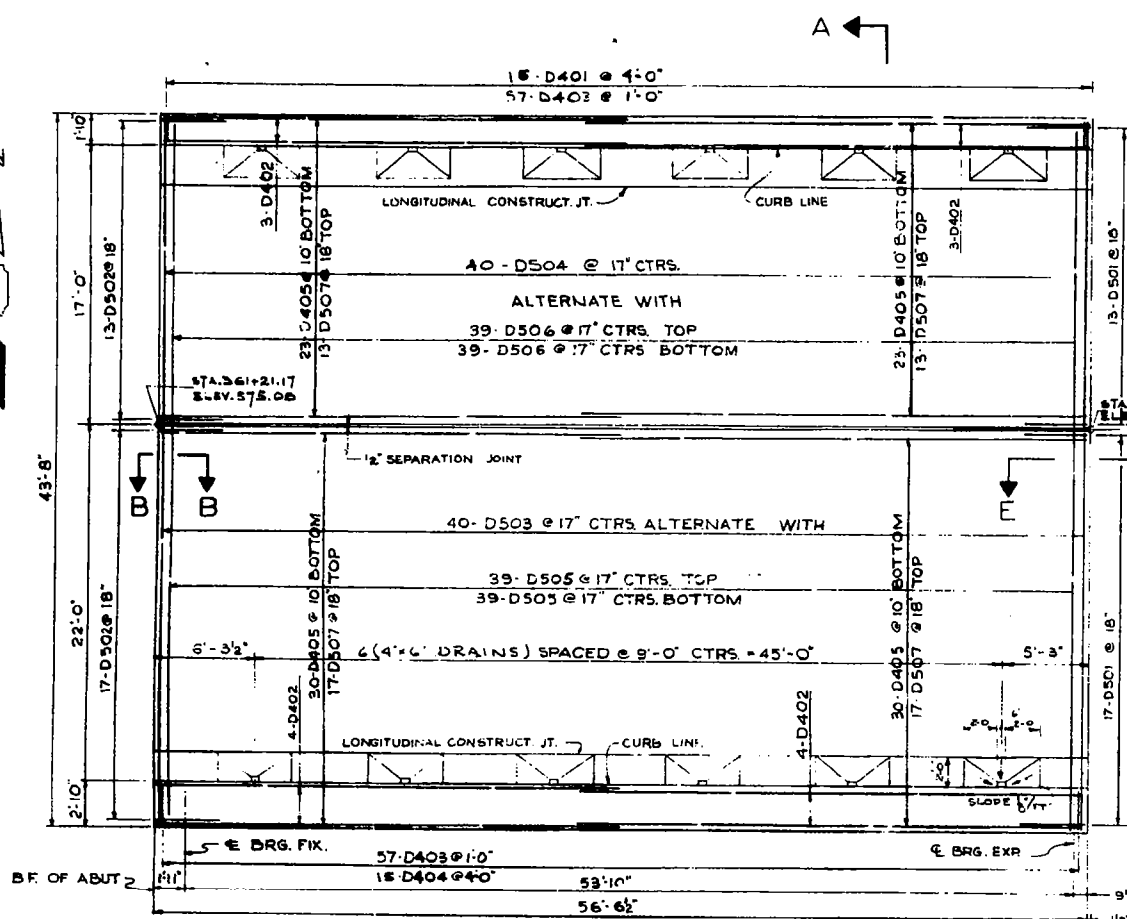
DE LEUW, CATHER & CO. ENGINEERS  
 DESIGNED BY W.J.C.  
 DRAWN BY W.J.C.  
 CHECKED N.S.W.  
 IN CHARGE E.S. MARTINS  
 APPROVED L.N. RIAN

JOB NO. 859

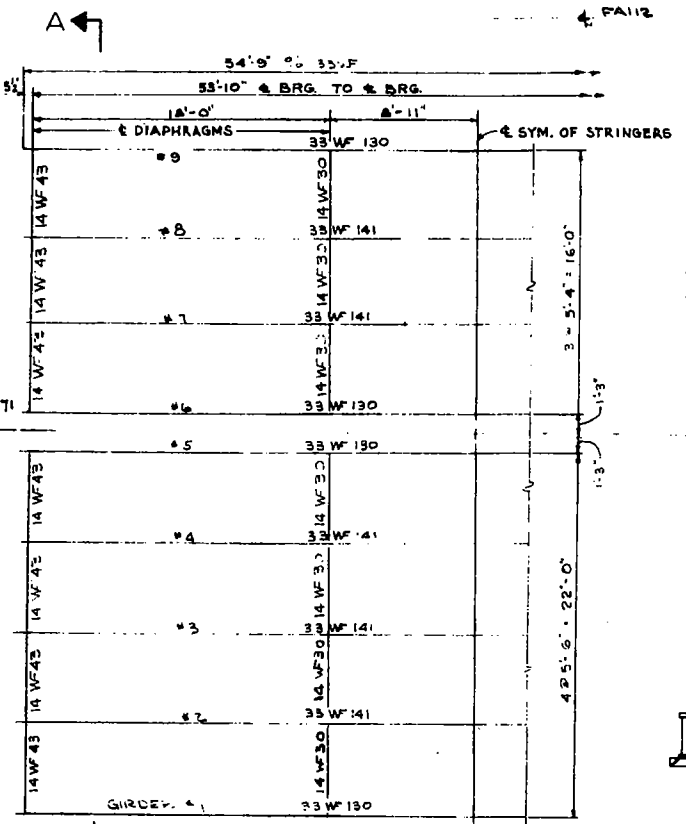
Revised 1-22-60 Curb Height R.R.D.



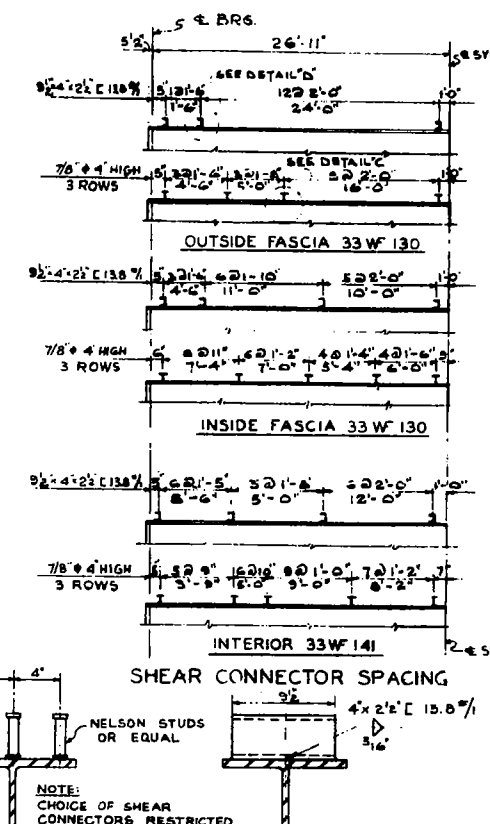
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FA.1.290	11-22	ROCK ISLAND	17	9	18 SHEETS



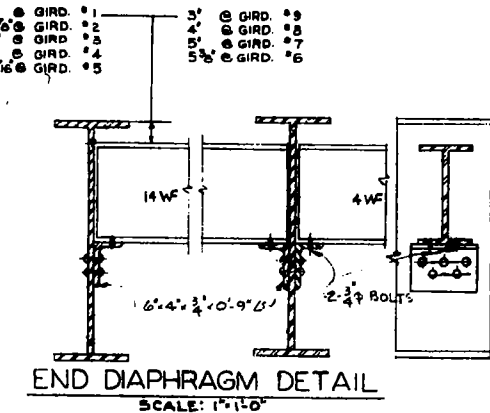
PLAN OF DECK REINFORCEMENT A  
SCALE: 3/16" = 1'-0"



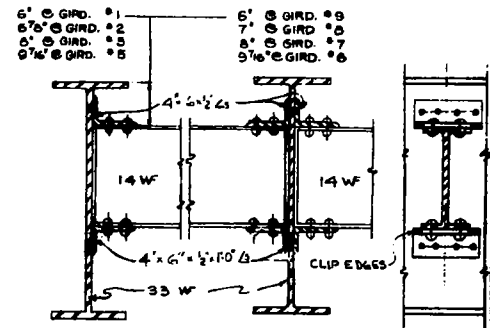
E B BRIDGE (W.B. SIMILAR)  
FRAMING HALF PLAN  
SCALE: 3/16" = 1'-0"



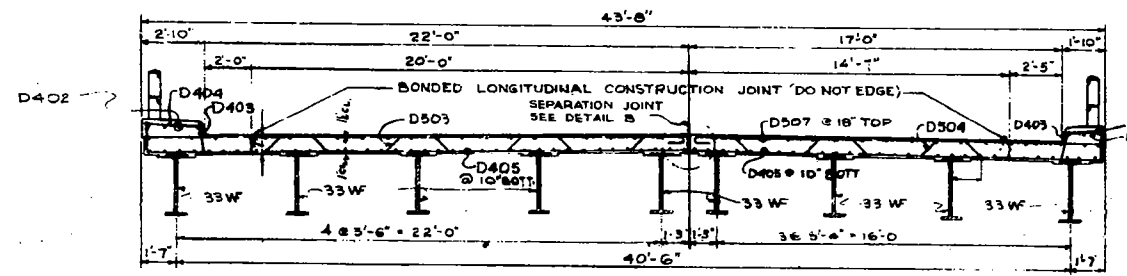
DETAIL 'C' SCALE: 1/2" = 1'-0"  
DETAIL 'D' SCALE: 1/2" = 1'-0"



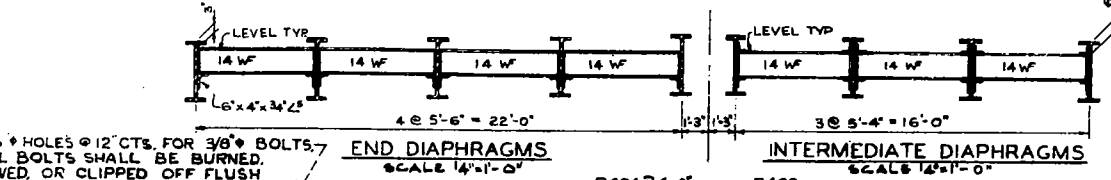
END DIAPHRAGM DETAIL  
SCALE: 1" = 1'-0"



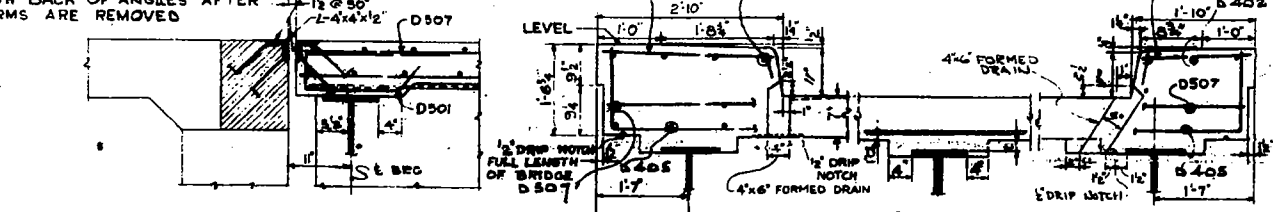
INTERMEDIATE DIAPHRAGM DETAILS  
SCALE: 1" = 1'-0"



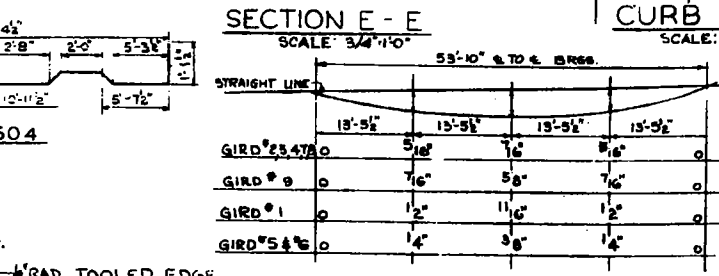
CROSS SECTION A-A (SEE DIAGRAMMATIC LAYOUT SHT. 4)  
SCALE: 1/4" = 1'-0"



END DIAPHRAGMS SCALE: 1/4" = 1'-0"  
INTERMEDIATE DIAPHRAGMS SCALE: 1/4" = 1'-0"



CURB DETAIL  
SCALE: 3/4" = 1'-0"



SECTION E-E SCALE: 3/4" = 1'-0"  
STRINGER DEFLECTION DUE TO CONCRETE DEAD LOAD ONLY

AFTER ALL STRUCTURAL STEEL HAS BEEN ERRECTED ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT 1/4 PYS.

FROM THESE ELEVATIONS SUBTRACT THE INCREMENT OF DEFLECTION FOR THESE POINTS, DETERMINED FROM CONC. SLAB D.L DEFLECTION DIAGRAM. THE ELEVATIONS SO ATTAINED SUBTRACTED FROM THE THEORETICAL GRADE ELEVATIONS, MINUS FLOOR THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP OF BEAM.

METHOD OF DETERMINING FILLET HEIGHTS -t-

BILL OF BARS 2 BRIDGES					
BAR	NO	SIZE	LENGTH	SHAPE	WEIGHT
D401	30	#4	1'-5"		28
D402	28	#4	28'-9"		63
D403	22	#4	1'-0"		18
D404	30	#4	2'-5"		48
D405	212	#4	28'-9"		401
D501	60	#5	4'-3"		264
D502	60	#5	6'-3"		391
D503	80	#5	27'-3"		3274
D504	80	#5	20'-2"		1,683
D505	156	#5	24'-6"		3,986
D506	156	#5	16'-0"		3,013
D507	120	#5	25'-0"		3,528
					20,045

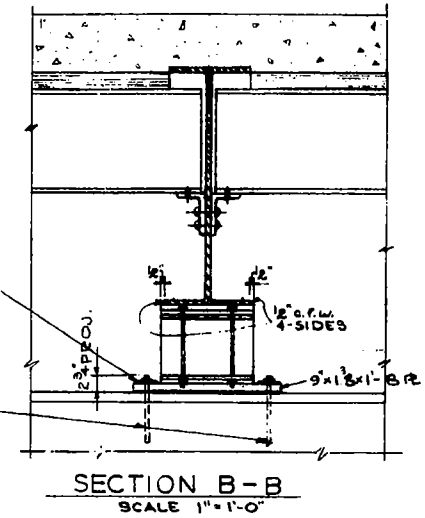
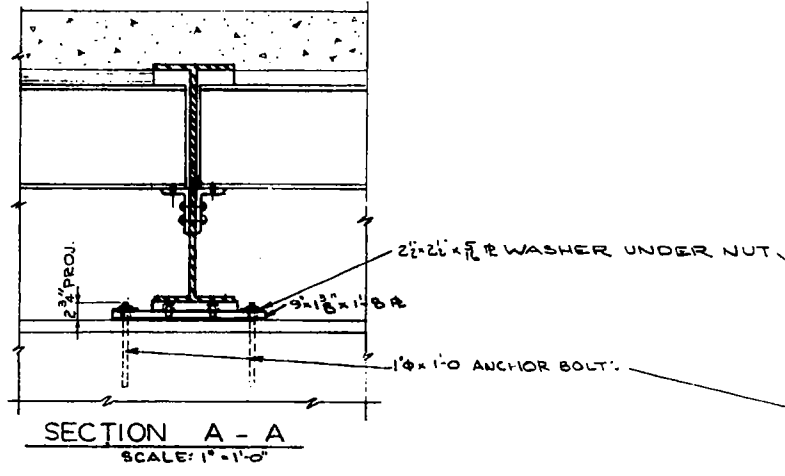
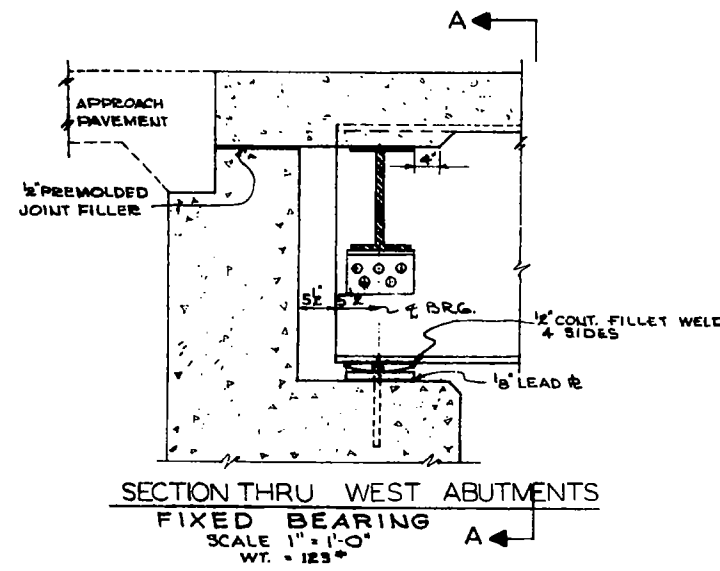
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YDS.	187.4
REINFORCEMENT BARS	LBS.	20,045
ERECTING AND ERECTING STRUCTURAL STEEL	LBS.	154,541

SUPERSTRUCTURE SLAB DETAILS AND FRAMING PLAN

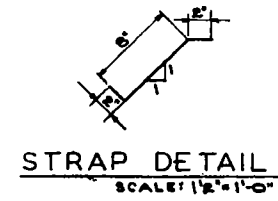
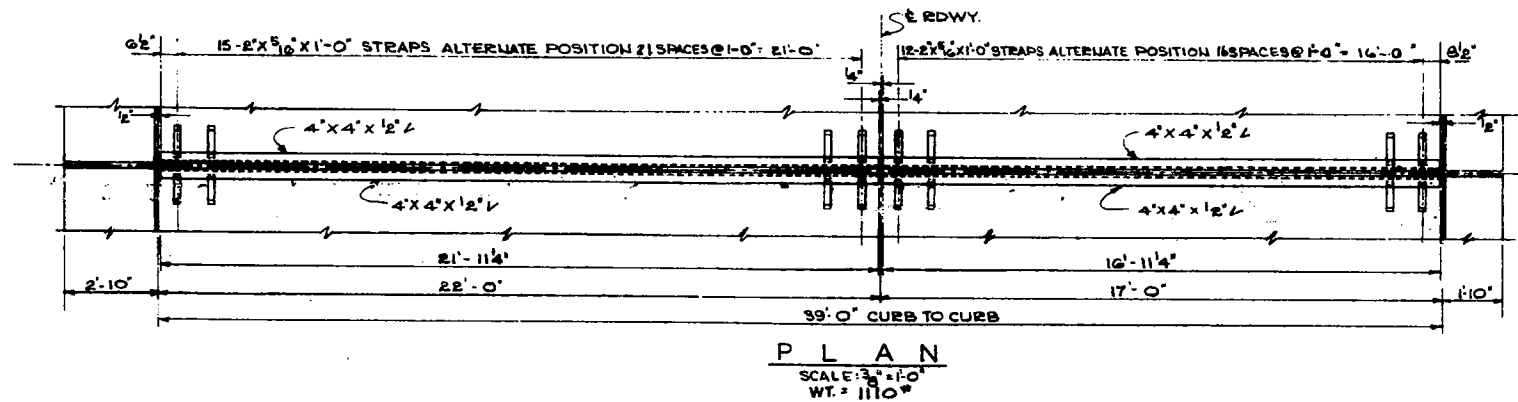
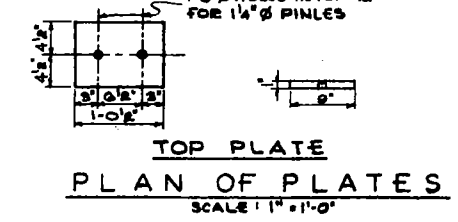
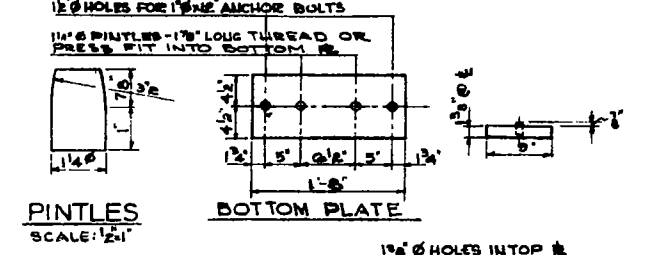
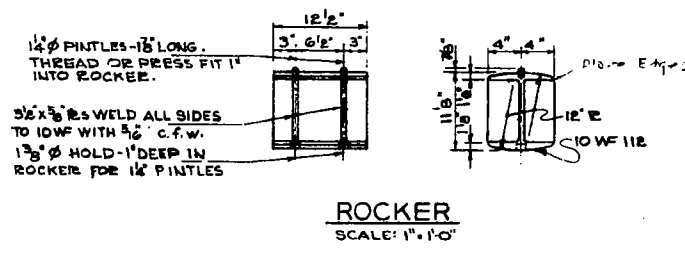
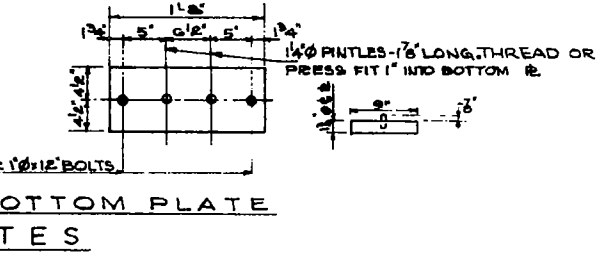
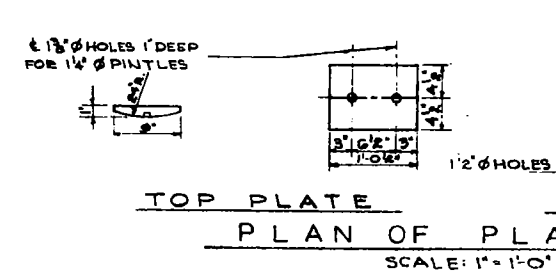
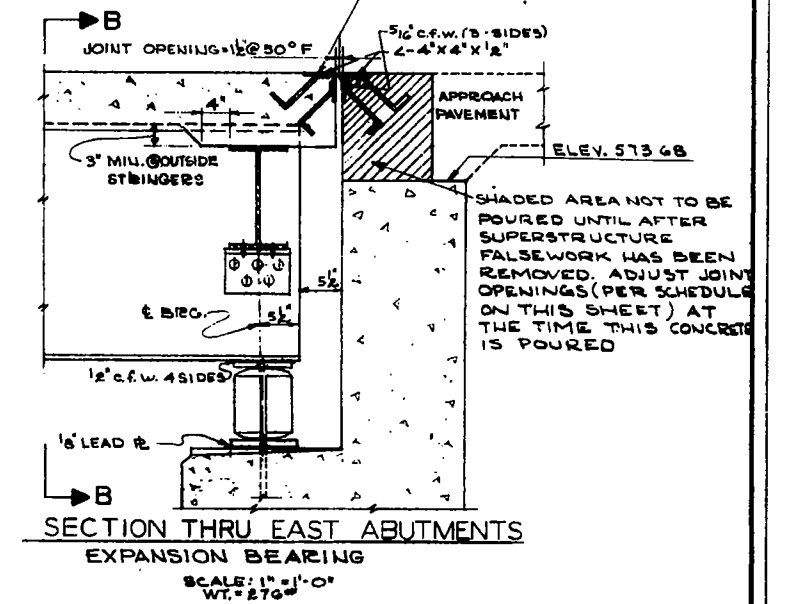
FA.1.290 SECTIONS 11-28  
FA.1.290 OVER CREEK  
ROCK ISLAND COUNTY  
STATION 361+50  
SCALE: AS NOTED DATE:

DE LEUW, CATHAR & CO. ENGINEERS  
DESIGNED BY W.J.C.  
DRAWN BY M.R.  
CHECKED E.S.M., M.S.W.  
IN CHARGE E.S. MARTINS  
APPROVED L.H. RIAN

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
FA.1.280	81-28	ROCK ISLAND	14	10	10 SHEETS
CON. ROAD DIST. NO. 7	ILLINOIS	OVER CREEK			



7/16" HOLES @ 12" OC. FOR 3/8" BOLTS. ALL BOLTS SHALL BE BURNED, SAWED, OR CLIPPED OFF FLUSH WITH BACK OF ANGLES AFTER FORMS ARE REMOVED.



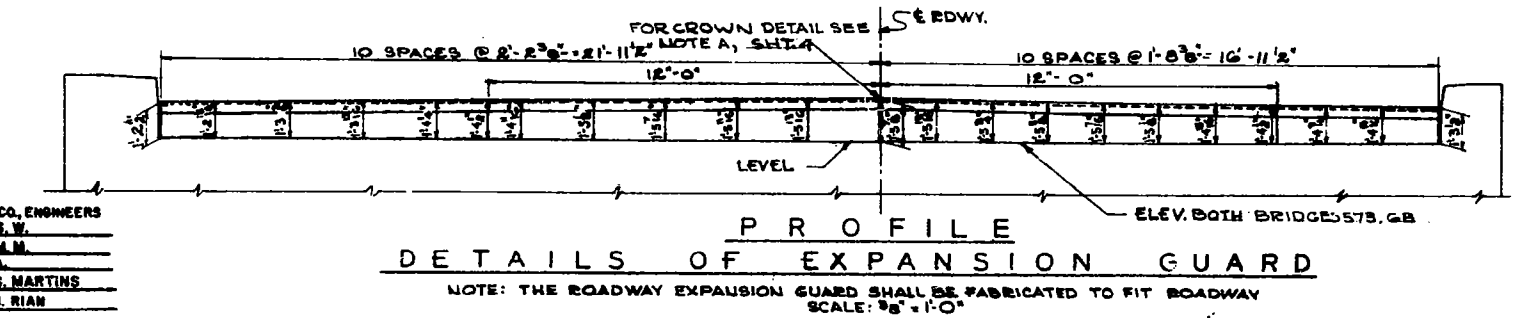
TEMPERATURE	100° F	110° F	120° F	130° F	140° F	150° F
EAST DIMENSION OF ABUT. JOINT OPENING	1 1/4"	1 1/8"	1 1/2"	1 1/4"	1 1/8"	1 1/4"

BASED ON 1/2" CLEARANCE AT 50°F. DIMENSIONS SHOWN IN SCHEDULE ARE PARALLEL TO CENTER LINE OF ROADWAY

**EXPANSION GUARD NOTES:**  
 SEE GENERAL NOTES FOR STRUCTURAL STEEL. SHEET NO. 2  
 EXPANSION GUARD ASSEMBLIES SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE GUARD. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.  
 ALL PARTS OF GUARD ASSEMBLY INCLUDING STRAP ANCHORS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.

**GUARD SETTING INSTRUCTIONS:**  
 JOINT OPENINGS SHOWN ON GUARD DETAILS ARE BASED ON AN ASSUMED TEMPERATURE OF 50°F. THEY INCLUDE A 1/2" ALLOWANCE FOR POSSIBLE FORWARD MOVEMENT AT TOP OF THE ABUTMENT DUE TO EARTH PRESSURE, THRUST OF APPROACH SLAB, ETC. THE OPENING WILL INCREASE OR DECREASE APPROXIMATELY 1/32" FOR EACH 10°F. DROP OR RISE IN TEMPERATURE FOR EAST ABUTMENTS.

ITEM	UNIT	QUANTITY
FURNISHING & ERECTING STRUCTURAL STEEL GUARD & BRGS ONLY	LBS.	9402



DE LEUW, CATHAR & CO. ENGINEERS  
 DESIGNED BY N.S.W.  
 DRAWN BY M.M.M.  
 CHECKED B.A.  
 IN CHARGE E.S. MARTINS  
 APPROVED L.N. RIAN

**BEARINGS & EXPANSION GUARD DETAILS**  
 FA.1.280 SECTION 81-28  
 FA.1.280 OVER CREEK  
 ROCK ISLAND COUNTY  
 STATION 36450  
 SCALE: AS NOTED

TOTAL ESTIMATE WEIGHT OF SUPERSTRUCTURE EXPANSION GUARDS FOR 2 BRIDGES 2220#