

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	1
		ILLINOIS	CONTRACT NO. 64P69	

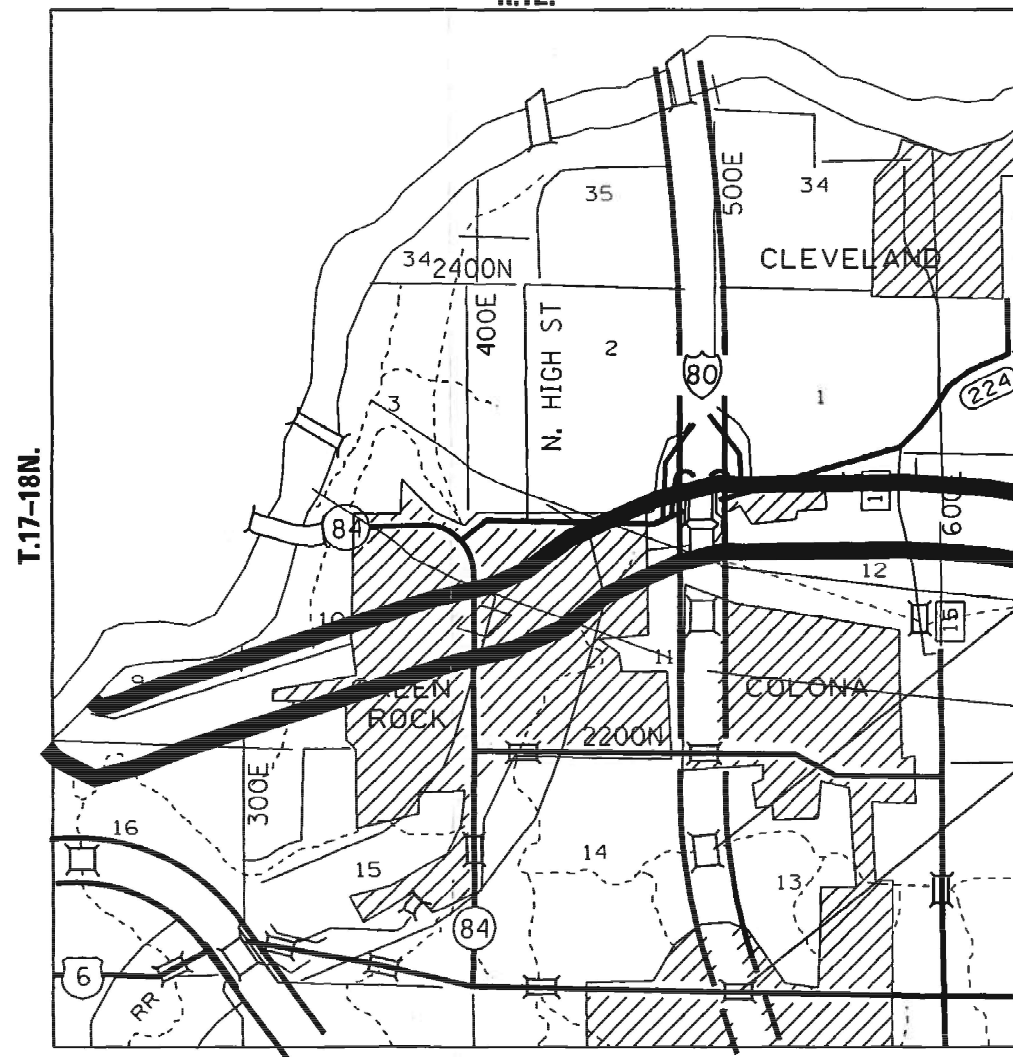
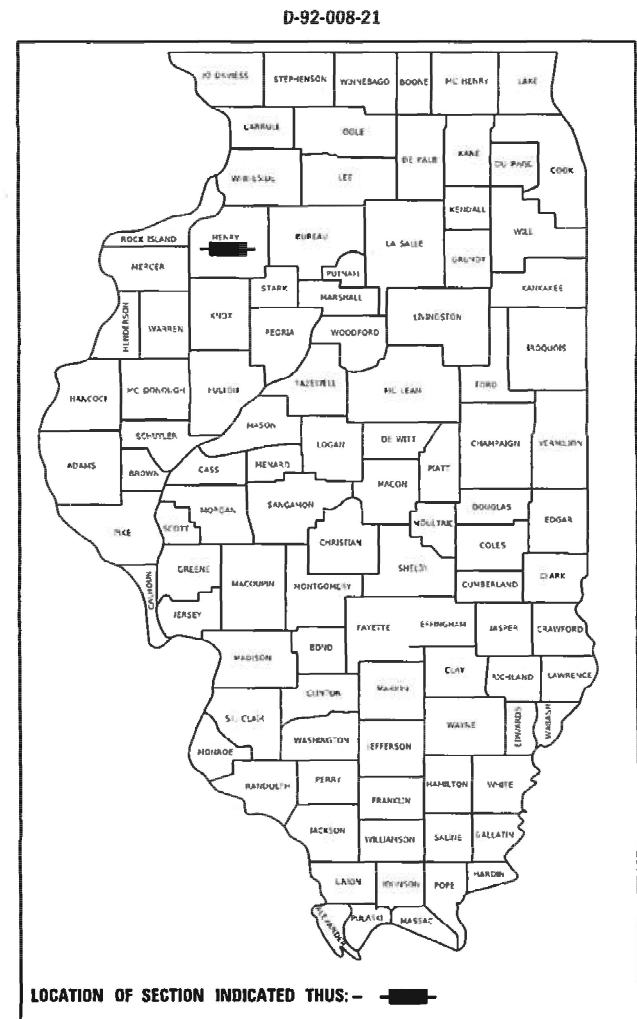
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED
HIGHWAY PLANS

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

FAI ROUTE 80 (I-80)
SECTION: (37-1BR-2, 37-1HB-2)BP
PROJECT: NHPP-0B3E(790)
TYPE of IMPROVEMENT: BRIDGE PAINTING
HENRY COUNTY

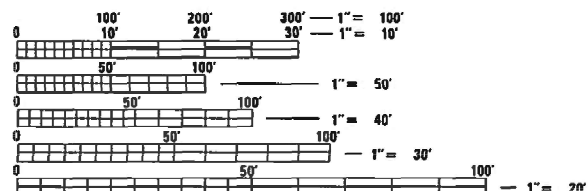
C-92-011-21
 R.1E.

HENRY COUNTY
COLONA TOWNSHIP - SECTION'S 13, 14 & 24



LOCATION 1
 SN 037-0029
LOCATION 2
 SN 037-0030

LOCATION 3
 SN 037-0079



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. 64P69

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 14, 2021

James A. Etk
 REGIONAL ENGINEER

March 19, 2021

James A. Etk
 ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021

James A. Etk
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

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STATE STANDARDS

- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
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- 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 037-0029

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 037-0030

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. 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.

LOCATION 3 - SN 037-0079

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. 3.

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. 3.

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. 3.

LOCATIONS 1, 2 and 3 - SN's 037-0029, 037-0030 AND 037-0079.

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 OP1 & OP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS,
STATE STANDARDS & GENERAL NOTES**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	2
CONTRACT NO. 64P69				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	0047 90% NHPP 10% STATE HENRY COUNTY	URBAN TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1550	1550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	3	3
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
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	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
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1

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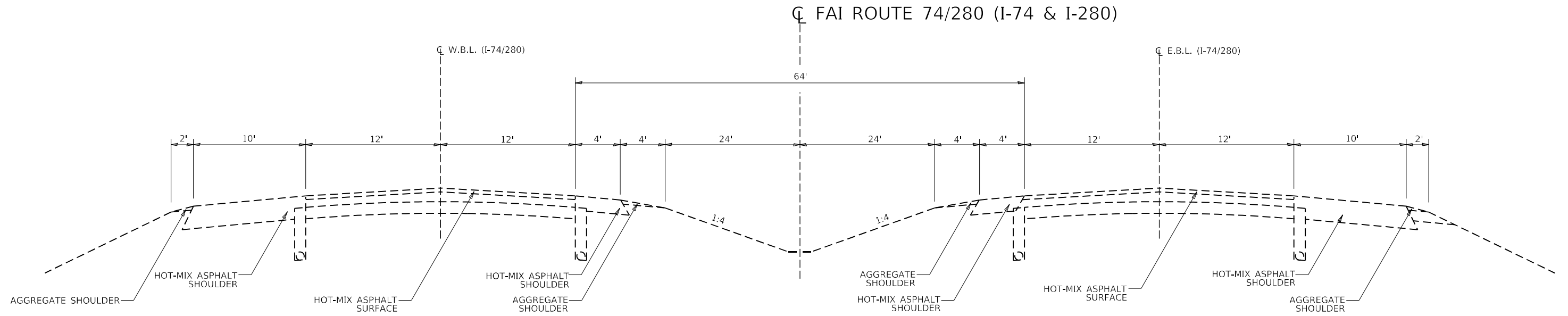
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	3
CONTRACT NO. 64P69				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL



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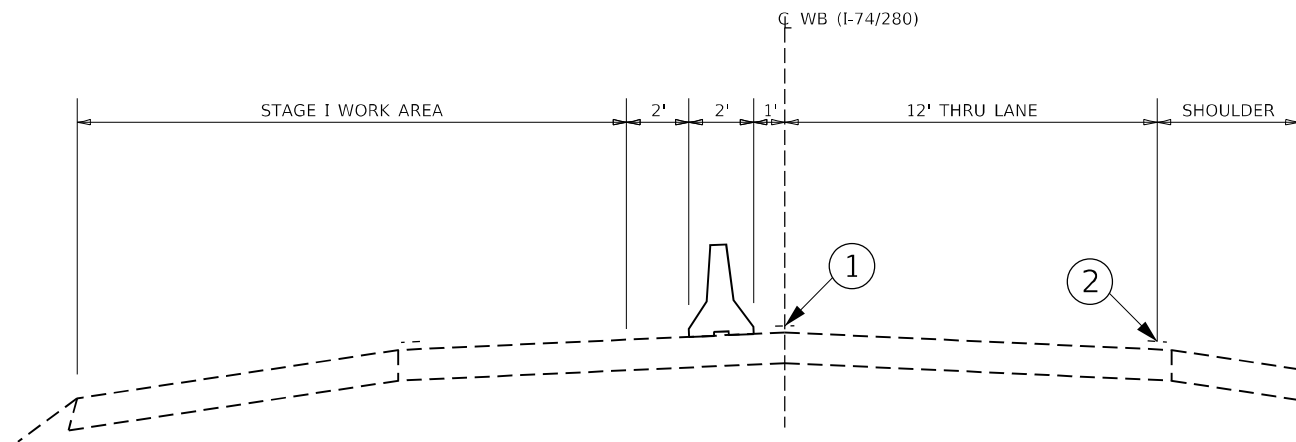
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL			
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STA. _____	TO STA. _____		

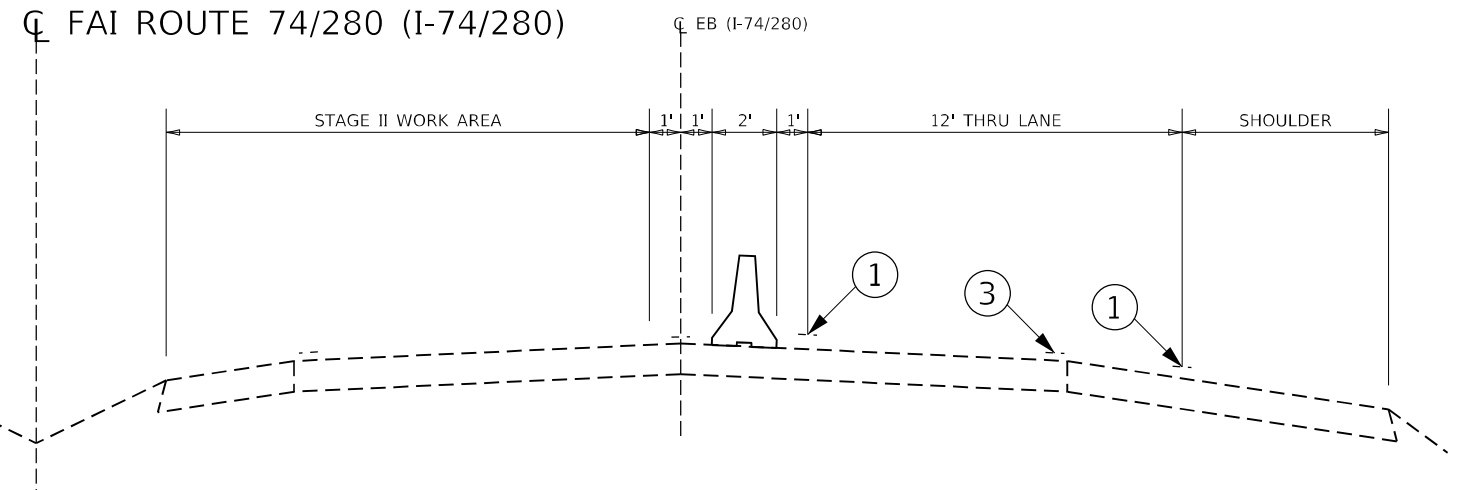
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80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	4
CONTRACT NO. 64P69				
ILLINOIS FED. AID PROJECT				

STAGING TYPICALS

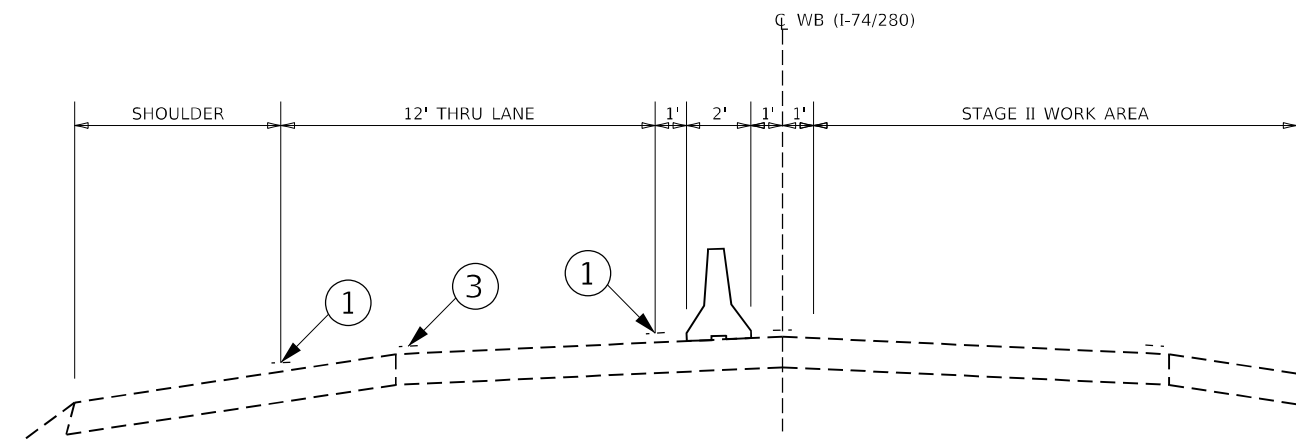
STAGE I



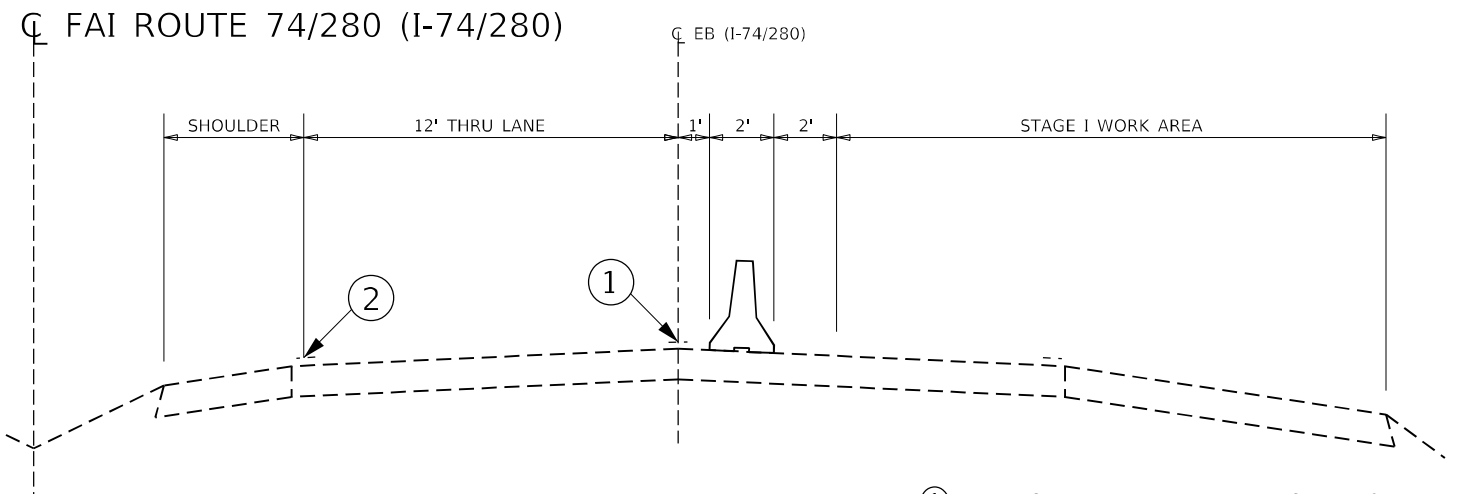
STAGE II



STAGE II



STAGE I



- 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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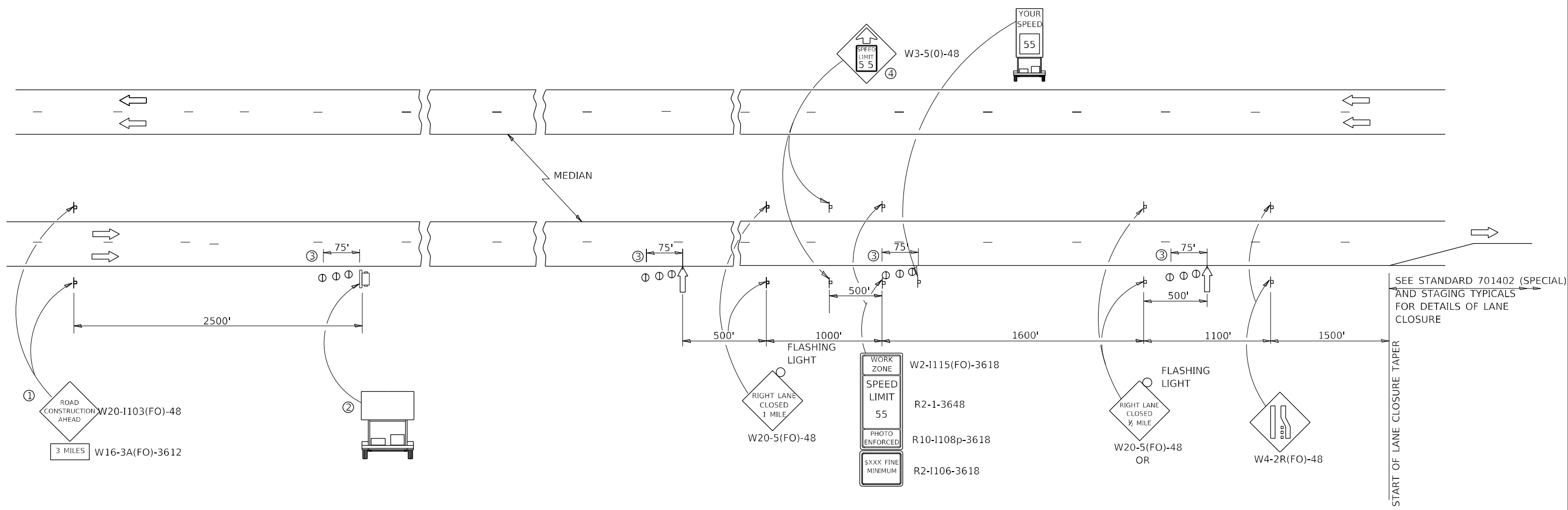
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	5
CONTRACT NO. 64P69				
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
- YOUR SPEED 45 TRAILER MOUNTED SPEED DISPLAY SIGN

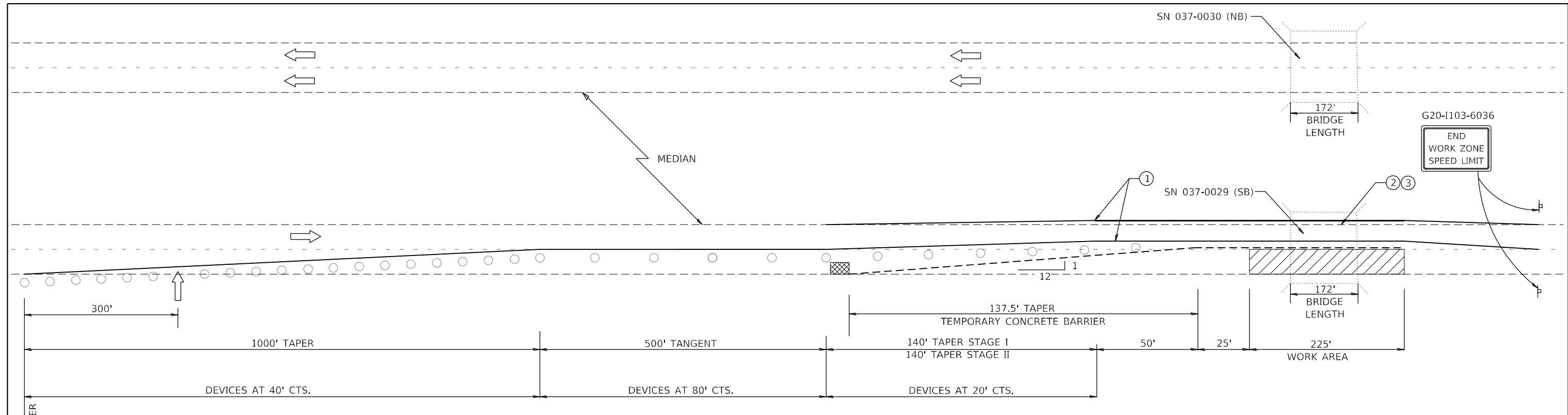
GENERAL NOTE:

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).

USER NAME = drossdd DESIGNED - _____ DRAWN - _____ PLOT SCALE = 40,0000 * / in. PLOT DATE = Jan-19-2021 09:36:04 AM	DESIGNED - _____ CHECKED - _____ DATE - _____	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL) FOR SN 037-0029 & 037-0030 CARRYING I-80 OVER MINERAL CREEK		F.A.I. RTE. 80	SECTION (37-1BR-2, 37-1HB-2)BP	COUNTY HENRY	TOTAL SHEETS 17	SHEET NO. 6
				SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64P69 ILLINOIS FED. AID PROJECT				

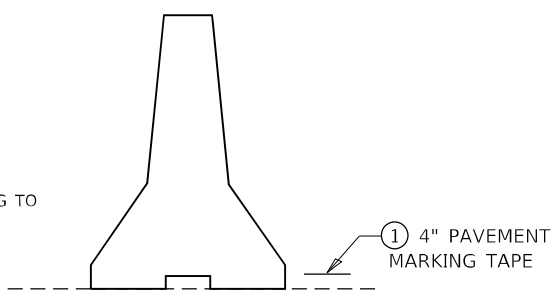


PAVEMENT MARKINGS

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)".

*NO EQUIPMENT OR MATERIALS SHALL ENCR OACH WITHIN A DISTANCE OF 2'-0" AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER TO THE Q 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

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCR OACH 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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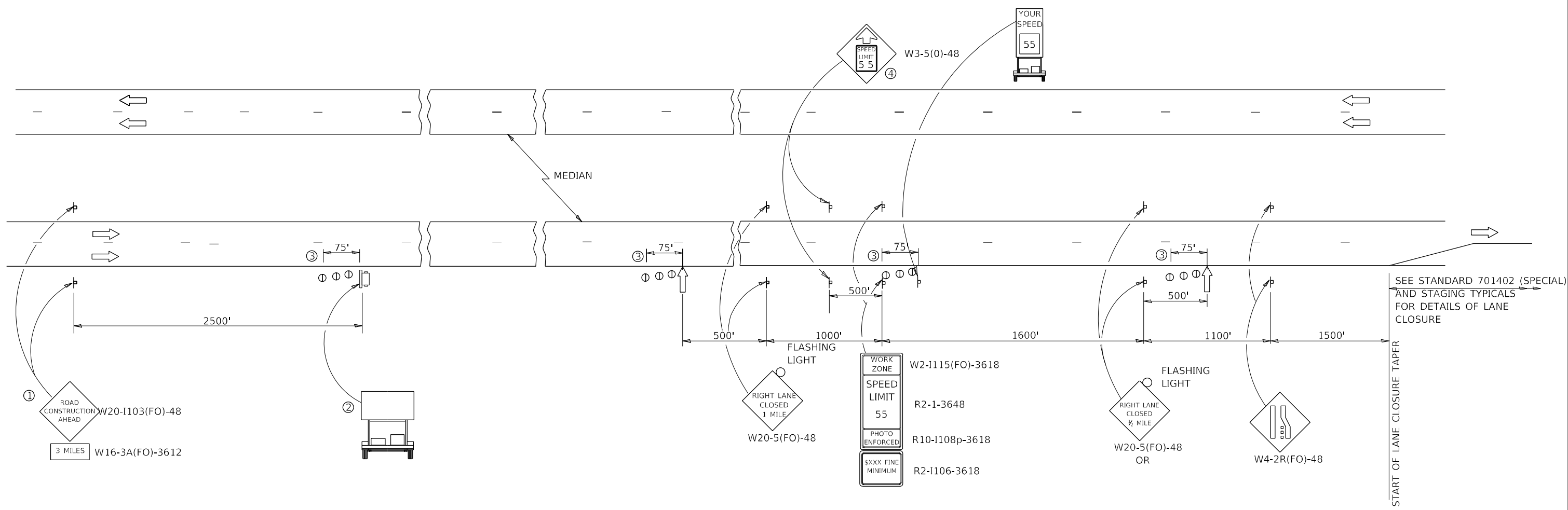
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL)
FOR SN 037-0029 & 037-0030 CARRYING I-80 OVER MINERAL CREEK**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	7
CONTRACT NO. 64P69				
ILLINOIS FED. AID PROJECT				

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

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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

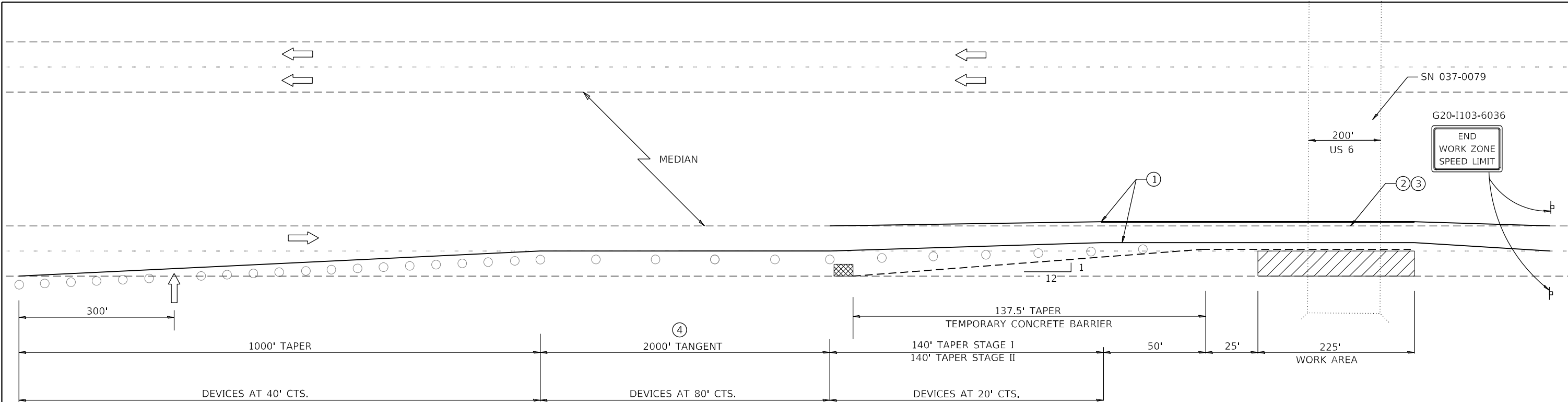
GENERAL NOTE:

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).

	USER NAME = drossdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) FOR SN 037-0079 CARRYING US 6 OVER I-80	F.A.I. RTE. 80	SECTION (37-1BR-2, 37-1HB-2)BP	COUNTY HENRY	TOTAL SHEETS 17	SHEET NO. 8
	PLOT SCALE = 40,0000 * / in.	CHECKED - _____	REVISED - _____		SCALE: _____	SHEET _____ OF _____ SHEETS		STA. _____ TO STA. _____		CONTRACT NO. 64P69
	PLOT DATE = Jan-19-2021 09:36:32 AM	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT					



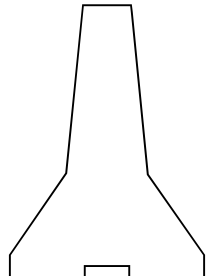
SEE STANDARD 701400 (SPECIAL) FOR APPROACH START OF LANE CLOSURE TAPER

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)".

*NO EQUIPMENT OR MATERIALS SHALL ENCR OACH WITHIN A DISTANCE OF 2'-0" AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER TO THE ϕ OF ROADWAY



TEMPORARY CONCRETE BARRIER

ANCHORED ACCORDING TO ARTICLE 704.04

① 4" PAVEMENT MARKING TAPE

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 RAMPS, STANDARD 701411 SHALL BE USED WITHIN THIS 2,000' TANGENT SECTION.

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCR OACH 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.

MODEL: Default FILE NAME: p:\pub\mranon.dwt\illinois\dot\Documents\DOT_Offices\Distric_2\Projects\Operations\Briago_Section\Henry\037-0079_037-0079_037-0079\CAD\Briago_Sect-04.dgn

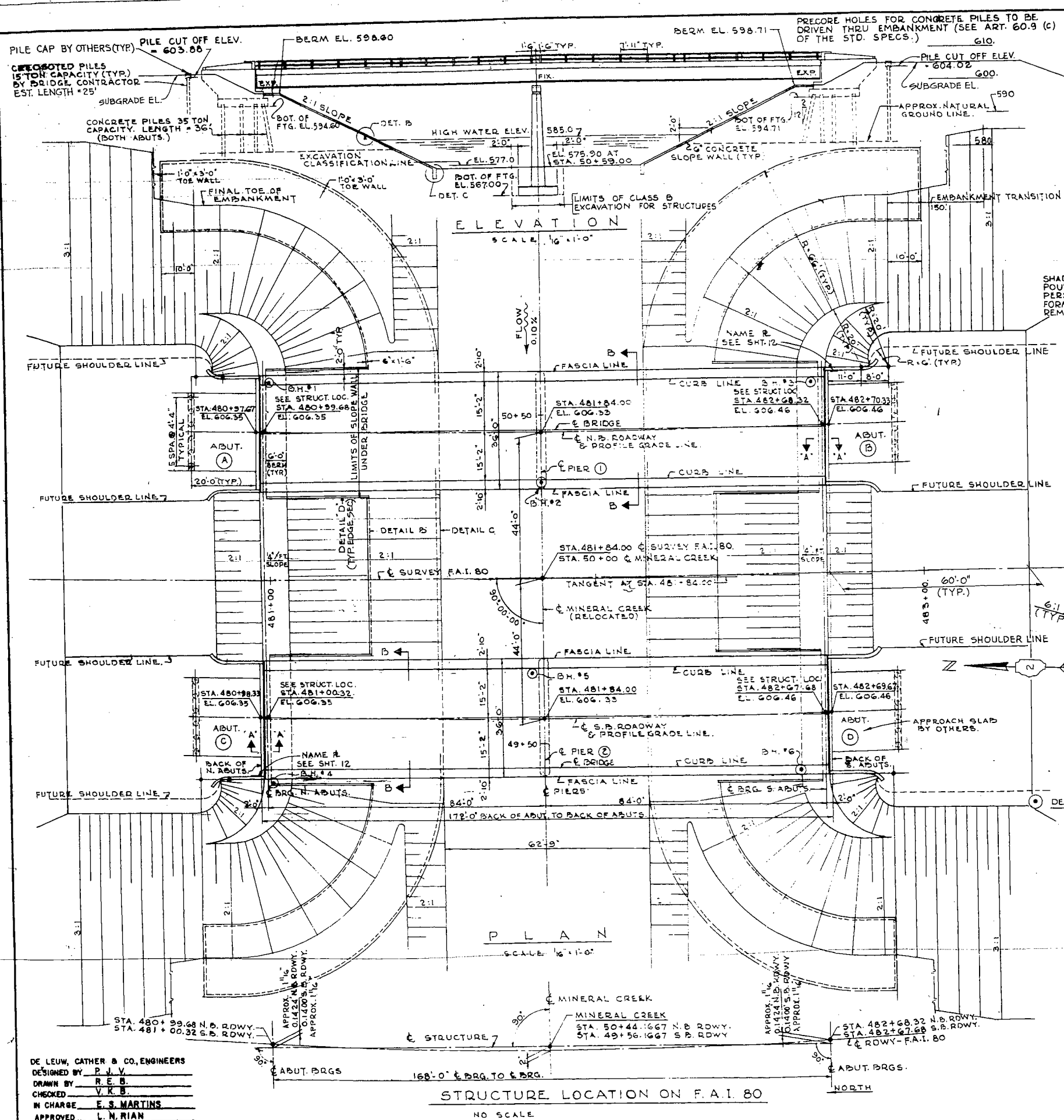
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PLOT DATE = Jan-13-2021 11:56:33 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

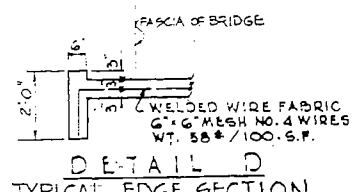
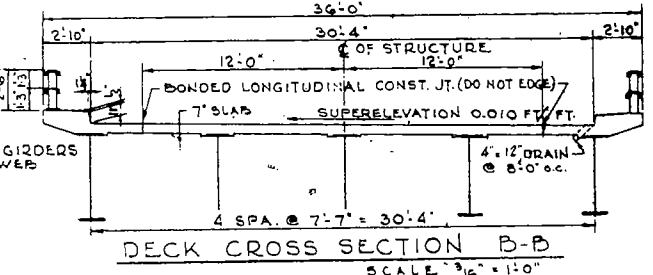
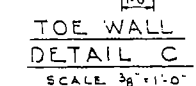
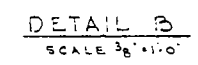
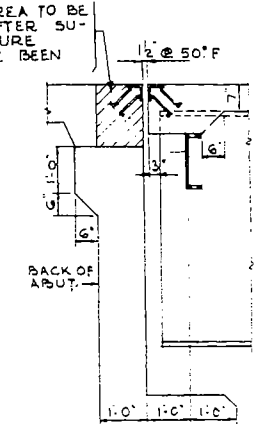
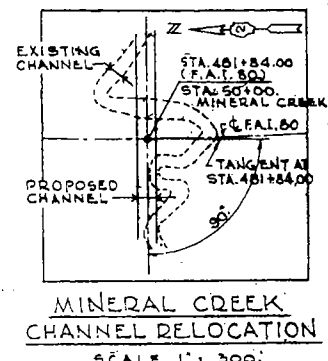
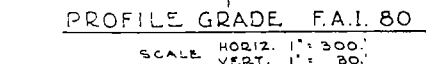
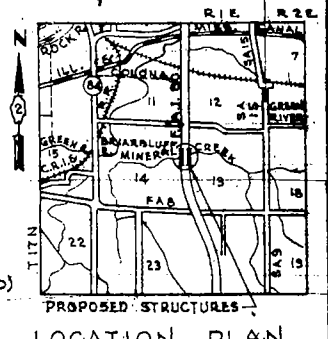
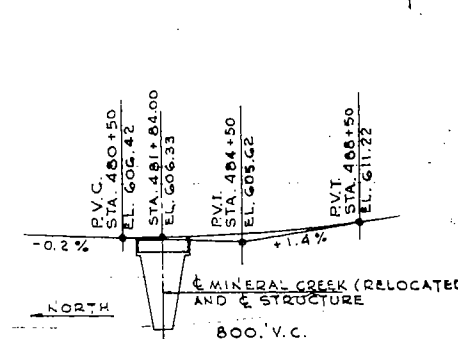
TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
FOR SN 037-0079 CARRYING US 6 OVER I-80

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(37-1BR-2, 37-1HB-2)BP	HENRY	17	9
CONTRACT NO. 64P69				
ILLINOIS FED. AID PROJECT				



WATERWAY INFORMATION
 DRAINAGE AREA 17,200 ACRES.
 CHARACTER ROLLING, PARTLY WOODED.
 * REQUIRED OPENING 700 SQ. FT.
 PROPOSED OPENING 702 SQ. FT.
 * 50 YEAR FLOOD.



CURVE DATA:

A	20° 28' 50"
D	0° 30' 00"
R	11 459.19'
T	2 070.15'
L	4 096.11'
E	185.49'
P.C.	478+33.17
P.T.	499+03.32
P.T.	519+29.28
SUPER. = 0.010 FT. FT.	
REMOVE CROWN AND ATTAIN	
SUPER IN 100 FT.	
STA.	477+83.17 TO 478+83.17
STA.	519+79.26 TO 518+79.26
P.T.	STA. 519+29.28

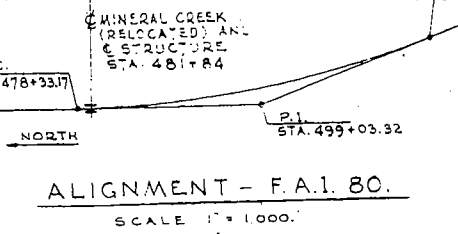
DESIGN LOADING: AASHO H-20 S16 AND ALTERNATE

DESIGN STRESSES:

$f_c = 4,400$ p.s.i.	SUPERSTRUCTURE AND SUBSTRUCTURE.
$f_c = 1,000$ p.s.i.	SUBSTRUCTURE (CONCRETE WITH EARTH PRESSURE.)
$f_s = 20,000$ p.s.i.	REINFORCING BARS
$f_s = 20,000$ p.s.i.	STRUCTURAL STEEL A36
$V = 75$ p.s.i.	ALLOWABLE SHEAR IN PIER FOOTINGS
$n = 10$	

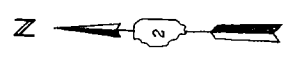
BILL OF MATERIAL

ITEM	UNIT	QUANT.
FURNISHING CREOSOTED PILES 20.1 TO 38 FEET	LIN. FT.	600
DRIVING TIMBER PILES	LIN. FT.	600
SLOPE WALL 6 INCH	SQ. YD.	2,978



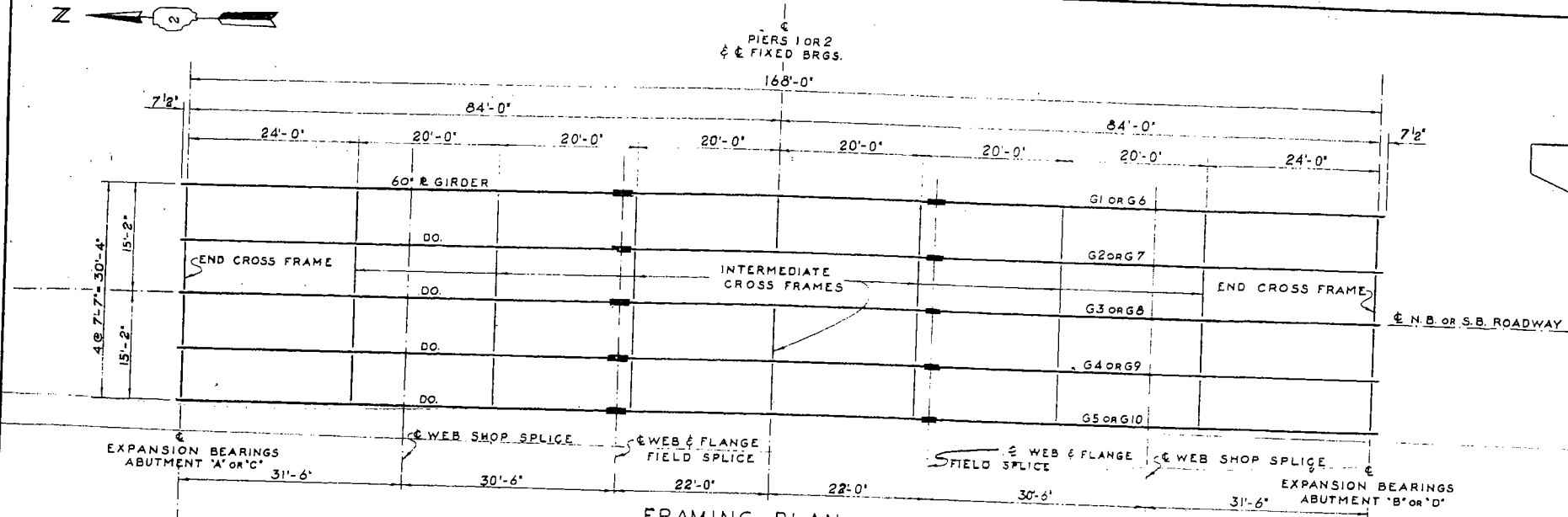
GENERAL PLAN & ELEVATION
 F.A.I. 80 SECTION 37-1B-2
 F.A.I. 80 OVER MINERAL CREEK
 HENRY COUNTY
 STATION 481 + 84.00
 SCALE: AS NOTED DATE:

DE LEUW, CATHER & CO. ENGINEERS
 DESIGNED BY P. J. V.
 DRAWN BY R. E. B.
 CHECKED V. R. B.
 IN CHARGE E. S. MARTINS
 APPROVED L. N. RIAN

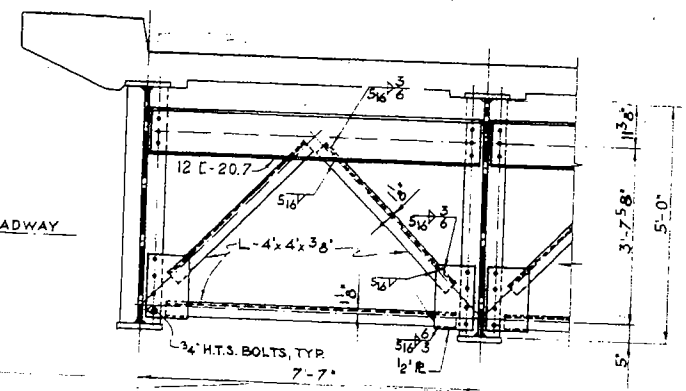


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 80	37-18-2	HENRY	32	10
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 10
SHEETS



FRAMING PLAN
SCALE: 3/32" = 1'-0"

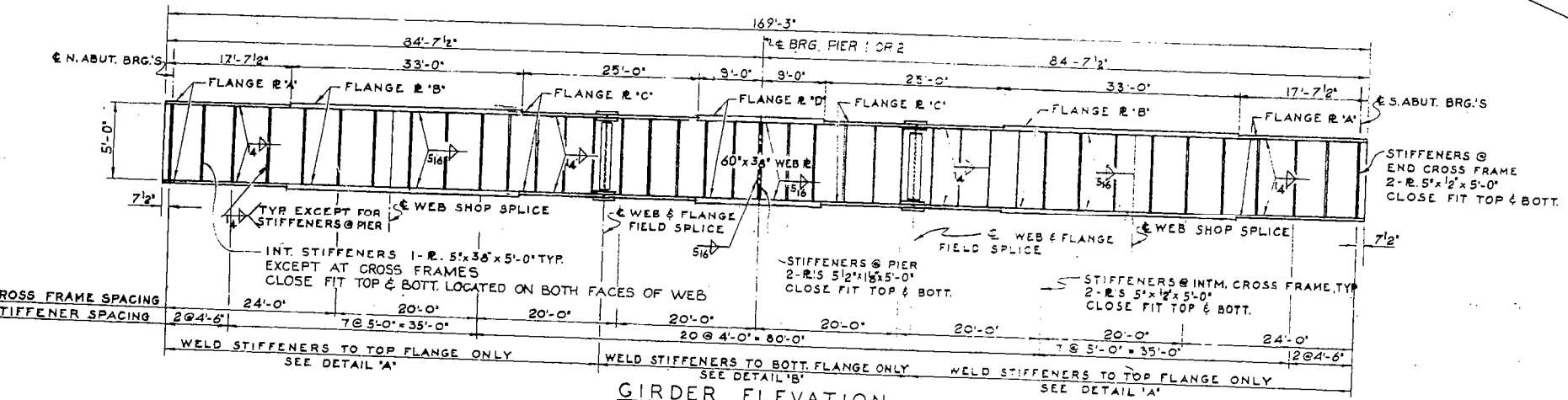


END CROSS FRAME
SCALE: 1/2" = 1'-0"

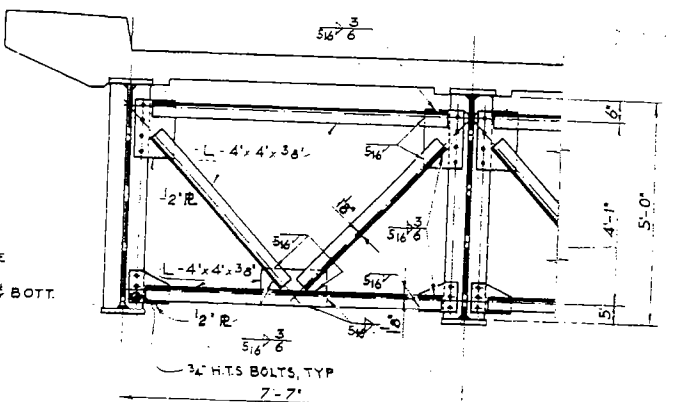
ELEVATIONS AT TOP OF STEEL				
GIRDER	W	X	Y	Z
G 2	605.635	605.635	605.681	605.750
G 3	605.711	605.712	605.757	605.825
G 4	605.786	605.788	605.833	605.901
G 5	605.862	605.862	605.887	605.977
G 6	605.935	605.960	605.984	605.975
G 7	605.934	605.936	605.981	605.948
G 8	605.710	605.712	605.757	605.824
G 9	605.786	605.786	605.833	605.900
G 10	605.862	605.863	605.887	605.975

NOTE: ELEVATIONS AT POINTS W, Y, AND Z ARE FINAL TOP OF STEEL ELEVATIONS AND ARE TO BE HELD. ELEVATION AT POINT X IS A THEORETICAL TOP OF ST'L ELEVATION ASSUMING TOP OF WEB TO BE STRAIGHT LINES AS SHOWN. POINT Y AND POINTS W AND Z ARE THE ELEVATIONS AT THE TOP OF THE ST'L AT PIER & ABUTMENT BEARING & BASED ON TOP OF SLAB BEING 8 1/4" ABOVE TOP OF WEB AT THESE POINTS. ELEVATIONS AT POINT X ARE GIVEN AT TOP OF SPLICE PLATE

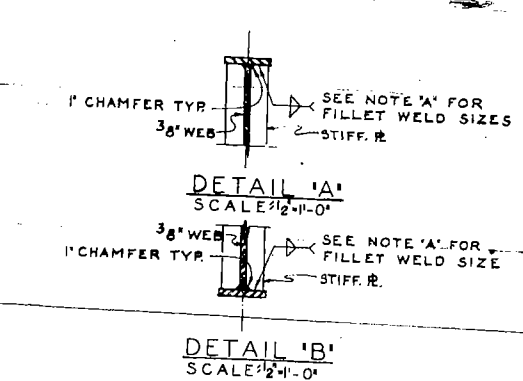
BILL OF MATERIAL - 2 BRIDGES		
ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	310,952



GIRDER ELEVATION
SCALE: HOR. 3/32" = 1'-0"; VERT. 3/16" = 1'-0"

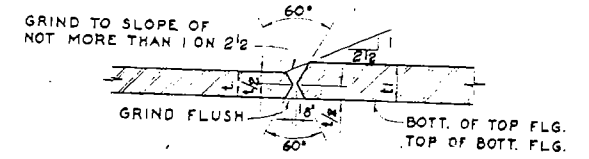


INTERMEDIATE CROSS FRAME
SCALE: 1/2" = 1'-0"



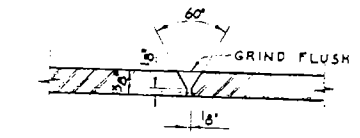
NOTE 'A':
1/4" FILLET WELD FOR 5/8" - 3/4" FLANGE R.
5/16" FILLET WELD FOR 7/8" - 1 1/8" FLANGE R.

FLANGE PLATE SCHEDULE				
GIRDERS	A	B	C	D
G1, G5, G6, G10	12"x5/8"	12"x7/8"	12"x3/4"	12"x1/2"
G2, G3, G4, G7, G8, G9	12"x5/8"	12"x1"	12"x3/4"	12"x1/2"

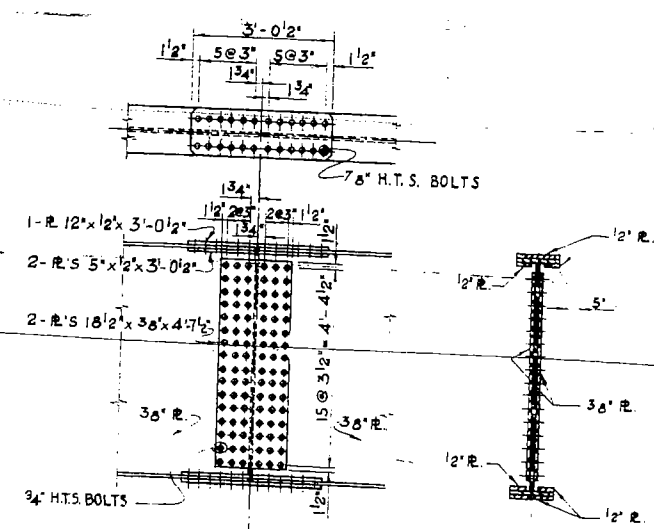


DETAIL FLANGE BUTT WELD AT TRANSITION OF THICKNESS

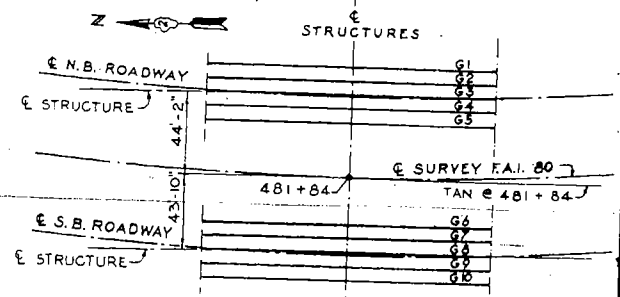
ELECTRODES FOR MANUAL SHIELDED METAL ARC-WELDING
Electrodes conforming to either the E60XX or the E70XX series of Tentative Specifications for Mild Steel Arc-Welding Electrodes (AWS Designation A231) shall be used for A36 steel in thicknesses of 3/4 inch or less. Only E70XX low-hydrogen electrodes shall be used on thicknesses of A36 steel over 3/4 inch.



DETAIL WEB BUTT WELD



FIELD SPLICE DETAIL
SCALE: 1/2" = 1'-0"



KEY PLAN OF GIRDERS
SCALE: 1" = 50'

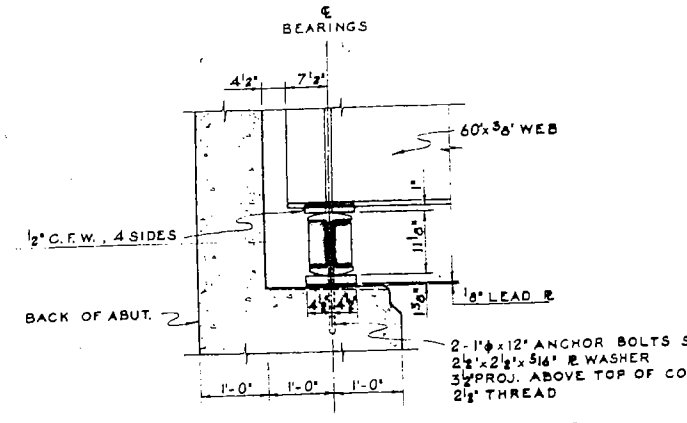
NOTES:
1. FOR DESIGNATION OF STEEL REQUIRED SEE 'GENERAL NOTES', SHEET 2.
2. FOR BEARINGS AND EXPANSION GUARDS SEE SHEET 11.

SUPERSTRUCTURE-FRAMING PLAN AND GIRDER DETAILS
FA.I. 80 SECTION 37-18-2
FA.I. 80 OVER MINERAL CREEK
HENRY COUNTY
STATION 481 + 84.00
SCALE: AS NOTED DATE:

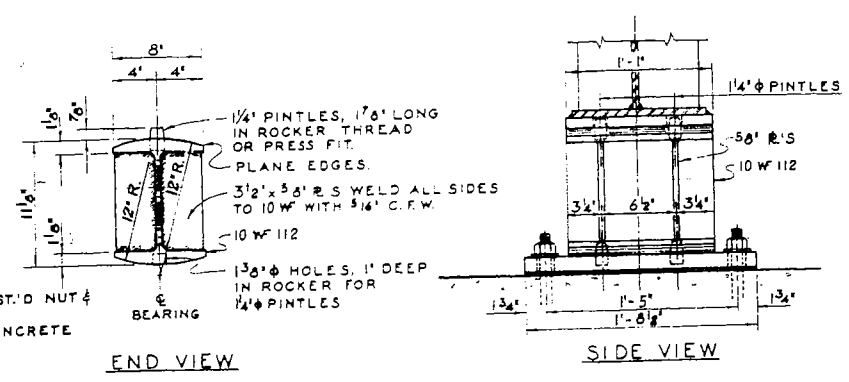
DESIGNED BY P.G.B.
DRAWN BY E.M.W.
CHECKED P.A.M./B.A.L.
IN CHARGE E.S. MARTINS
APPROVED L.N. RIAN

JOB NO. 1000

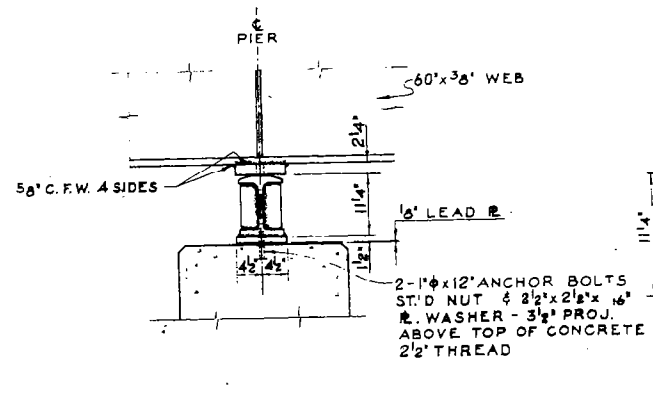
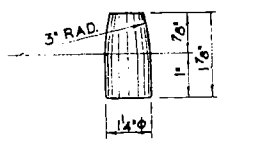
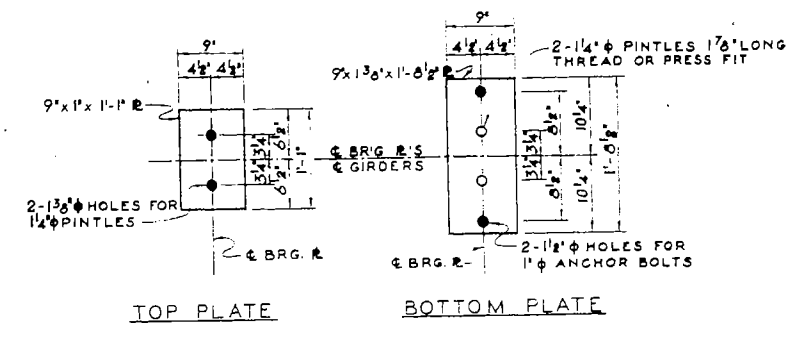
Revision 4-11-63: Added Electrode note; Changed optional splice to field splice. M.C.K.



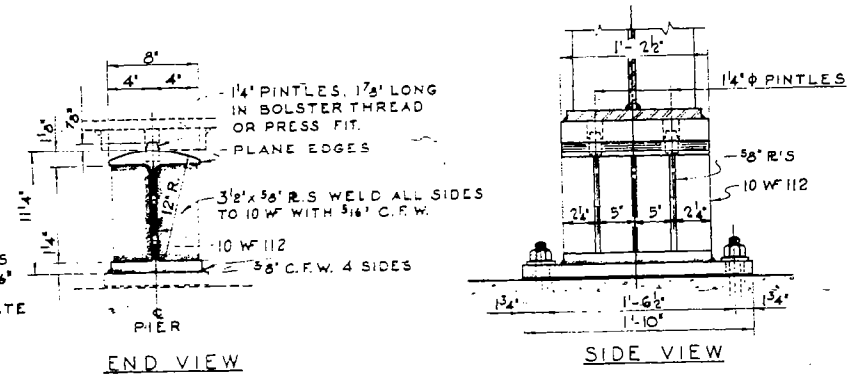
EXPANSION BEARING DETAIL AT ABUTMENT
20 BEARINGS REQUIRED - WT./BR'G = 268'
SCALE: 3/4" = 1'-0"



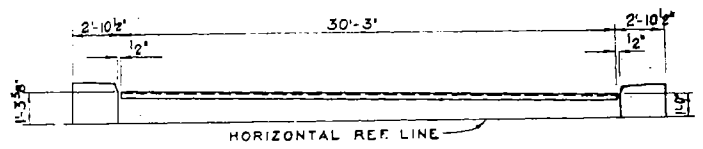
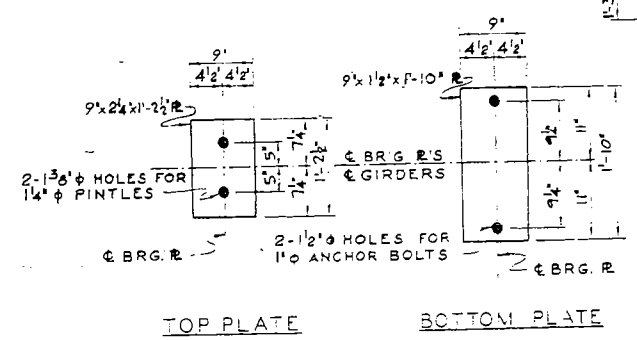
ROCKER DETAIL FOR EXPANSION BEARINGS
SCALE: 1/2" = 1'-0"



FIXED BEARING DETAIL AT PIER
10 BEARINGS REQUIRED - WT./BR'G = 360'
SCALE: 3/4" = 1'-0"

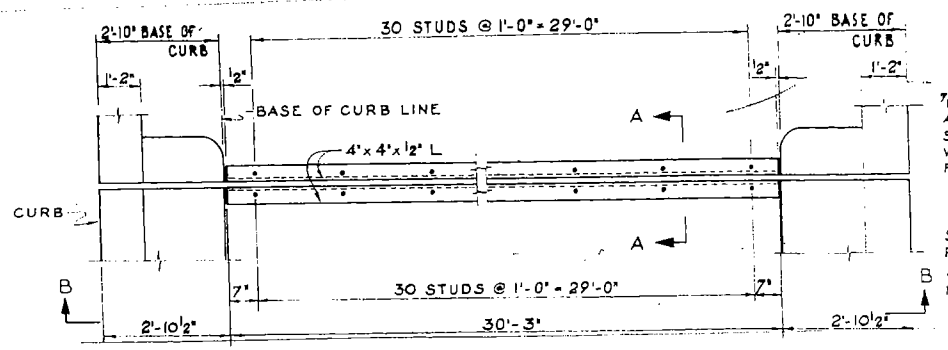


BOLSTER DETAIL FOR FIXED BEARINGS
SCALE: 1/2" = 1'-0"

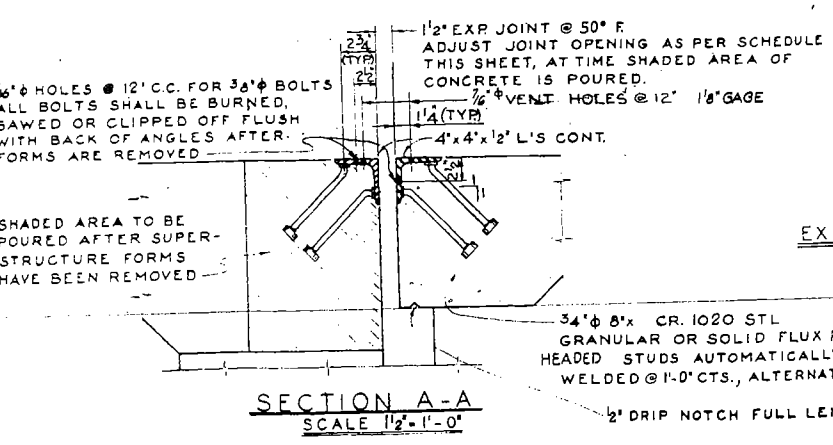


LOOKING NORTH FOR ABUT'S A & C
SECTION SIMILAR BUT OPPOSITE HAND FOR ABUT'S B & D

- 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 CROSS SECTION AT THE JOINT. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.
 - ALL PARTS OF GUARD ASSEMBLY INCLUDING STUDS 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 ALLOW FOR A POSSIBLE FORWARD MOVEMENT AT THE TOP OF THE ABUTMENT DUE TO EARTH PRESSURE, THRUST OF APPROACH SLAB, ETC. OF 1/8". THE OPENING WILL INCREASE OR DECREASE APPROXIMATELY 1/16" FOR EACH 10° F DROP OR RISE IN TEMPERATURE RESPECTIVELY.
 - TOTAL ESTIMATED WEIGHT OF SUPERSTRUCTURE EXPANSION GUARDS = 3412#



PLAN OF EXPANSION GUARDS
SCALE: 1/2" = 1'-0"



EXPANSION GUARD ADJUSTMENT SCHEDULE

TEMPERATURE °F	110°	90°	70°	50°	30°	10°
ABUT'S A, B, C, D	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"

BILL OF MATERIAL - 2 BRIDGES

ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	12372

BEARING & EXPANSION GUARD DETAILS.
F.A.I. 80 SECTION 37-18-2
F.A.I. 80 OVER MINERAL CREEK
HENRY COUNTY
STATION 481 + 84.00
SCALE: AS NOTED DATE:

DE LEUW, CATHER & CO., ENGINEERS
DESIGNED BY: H.G.B.
DRAWN BY: E.H.W.
CHECKED BY: P.A.M. / B.A.L.
IN CHARGE: E.S. MARTINS
APPROVED: E.L. RIAN

JOB NO. 1000

Revision 4-15-63, Changed guard L studs from 4x4x1/2 to 4x4x8 headed, 11/24

EXISTING STRUCTURE: CONCRETE ON TOP STEP OF R.W. WITH MAIN - Elev. 643.07
 Existing Structure: #037-0079 is 231'-7 3/4" long by 35'-8" wide, built as F.A.I. Rte. 80, Sec. 37-1HB-2 at Sta. 515+29.26
 In 1964. Traffic shall be maintained during the removal and replacement of the existing concrete deck, utilizing
 Stage Construction.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	JOB	SHEET NO.
037-0079	11B12	11/7	104	13 SHEETS

GENERAL NOTES

Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Pier dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All Structural Steel shall be cleaned by Method I. The three coat lead and chromate free alkyl paint system shall be used for field painting of Existing Structural Steel. The color of the final finish coat shall be Munsell Standard 7.5G 4/8 Interstate Green. The three coat lead and chromate free alkyl paint system shall be used for shop and field painting of New Structural Steel. The color of the final coat shall be Munsell Standard 7.5G 4/8 Interstate Green.

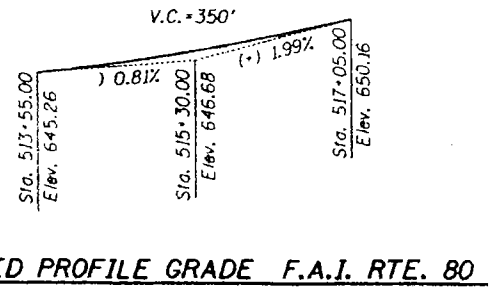
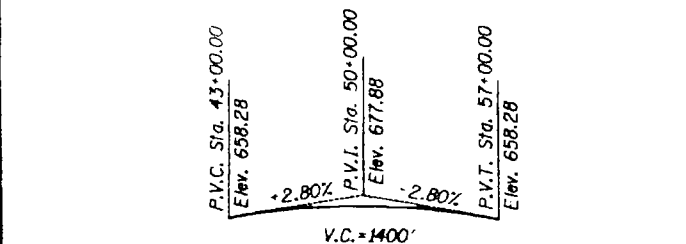
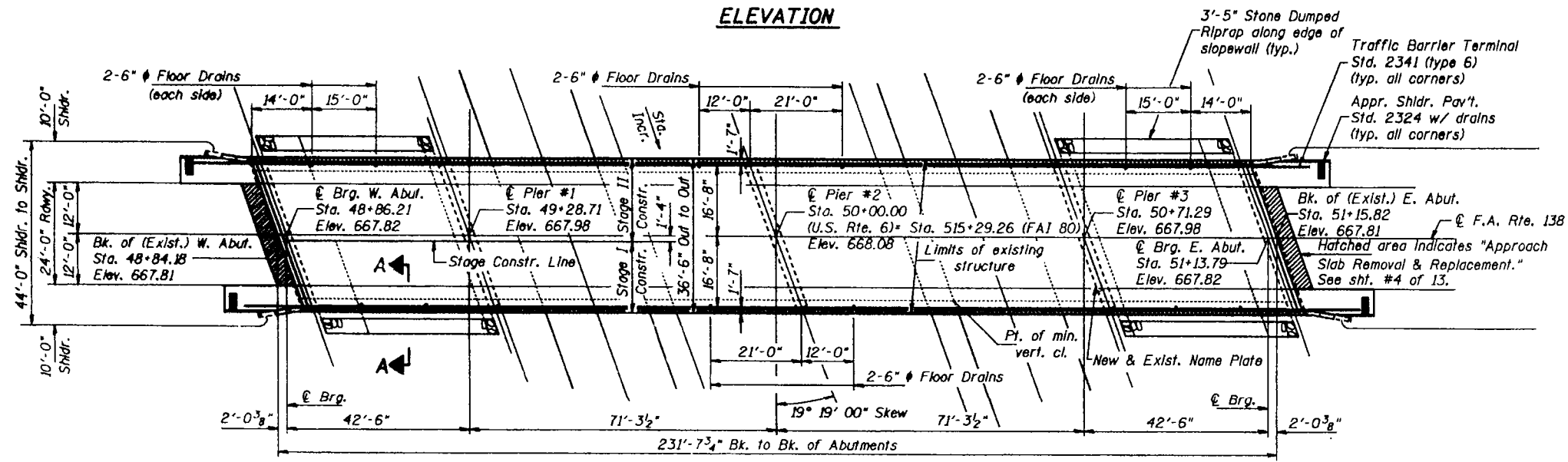
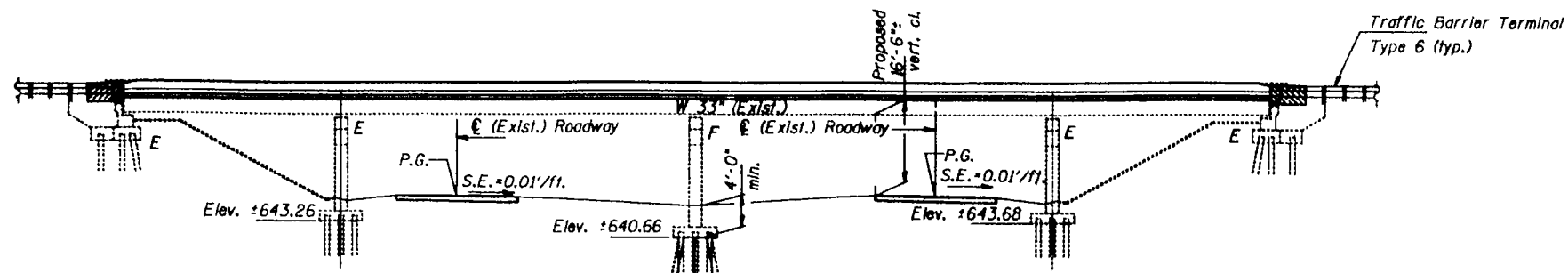
Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and 3/4" x 12" hooked bolts.

All top surfaces of abutments shall receive Bridge Seat Sealer. Estimated quantity = 143 Sq. Ft.

Two 1/2" adjusting shims, of the dimensions of the bottom bolster plate, shall be provided for each new bearing in addition to all other plates or shims.

The Contractor will be required to mark, on top of the concrete deck, the locations of the top flange of all the steel beams, prior to any removal of the bridge concrete deck. Saw cutting directly over the top of the beam flanges is not permitted.

The estimated weight of existing Structural Steel to be cleaned and painted = 109 tons.



DESIGNED: P. H. P. B.
 EXAMINED: [Signature]
 DRAWN: R. S.
 CHECKED: P. B.
 December 19 1985
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

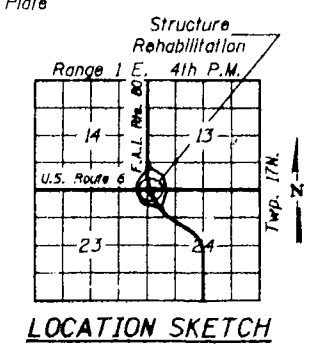
STATION 515+29.26
 REBUILD 19 BY
 STATE OF ILLINOIS
 F.A.I. RTE. 80 SECTION 37-1HBY-2
 PROJECT ACIE-80-1 (122)
 LOADING HS20
 STR. NO. 037-0079
 NAME PLATE
 See Std. 2113
 Locate next to existing Name Plate

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		7.0	7.0
Expansion Bolts 3/4"	Each	102		102
Removal of Existing Concrete Deck	L.S.	1		1
Floor Drains	Each	12		12
Preformed Joint Seal 4"	Lin. Ft.	77		77
Class X Concrete Superstructure	Cu. Yd.	262.4		262.4
Protective Coat	Sq. Yd.	193		193
Elastomeric Brg. Assembly Type II	Each	12		12
Structural Steel	Lbs.	4,810		4,810
Stud Shear Connectors	Each	3,780		3,780
Cleaning & Painting Steel Bridge	L.S.	0.33		0.33
Reinforcement Bars, Epoxy Coated	Lbs.	61,340	760	62,100
Name Plates	Each	1		1
Stone Dumped Riprap	Sq. Yd.		70	70
Jack & Remove Exst. Bearings	Each	12		12
Bridge Seat Sealer	L.S.		.33	.33
Approach Slab Removal & Replacement	Sq. Yd.		17	17

* Quantity Includes Parapet only.

DESIGN SPECIFICATIONS
 AASHTO (1983) and applicable Interims (1984 thru 1988)
 LOADING HS 20-44
 Allow 25#/sq. ft. for Future Wearing Surface
 DESIGN STRESSES
 FIELD UNITS
 f_c = 3,500 psi
 f_y = 60,000 psi (Reinf.)
 f_y = 36,000 psi (Struct.) (M183)

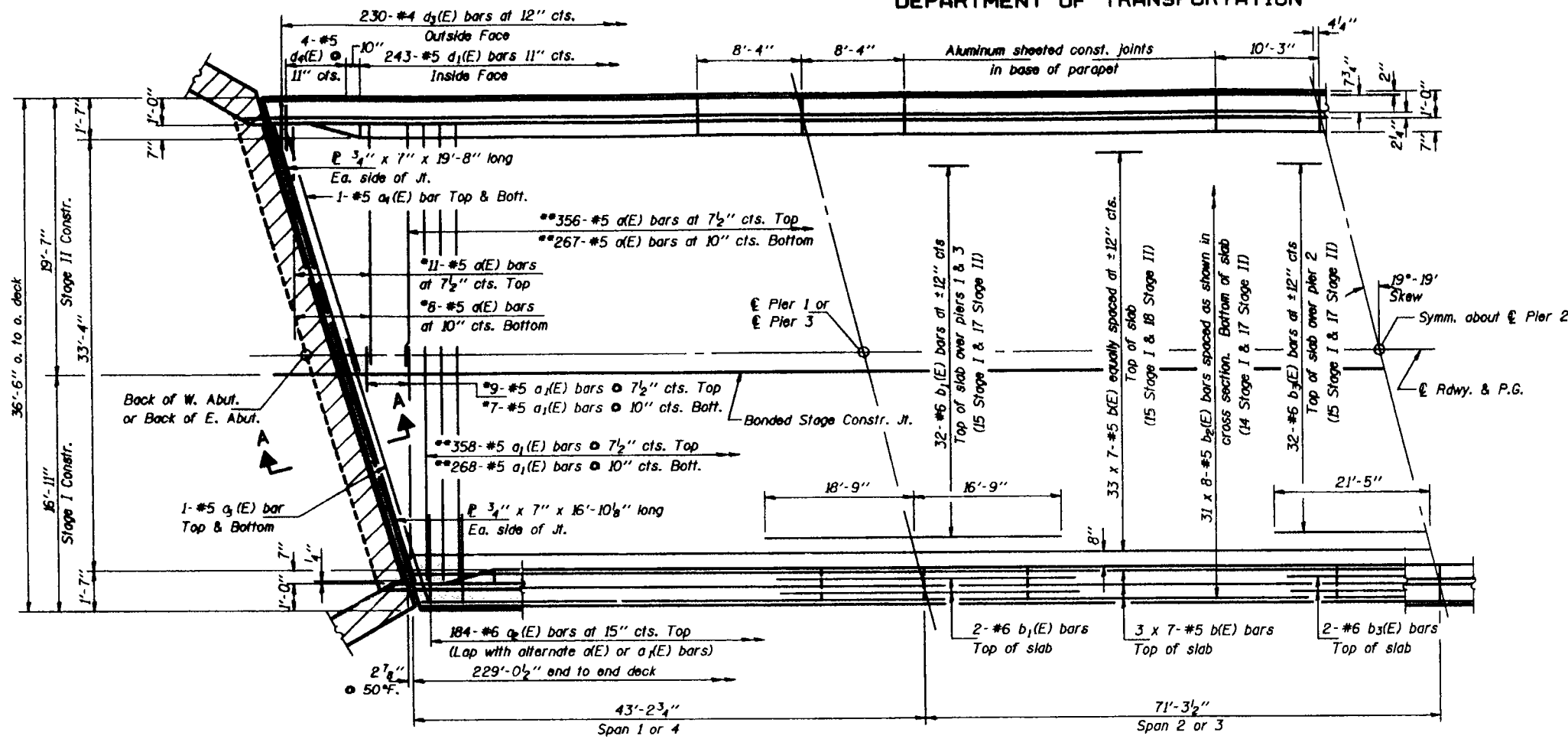


GENERAL PLAN
 F.A. ROUTE 138 (U.S. 6) OVER
 F.A.I. ROUTE 80
 F.A.I. ROUTE 80 SECTION 37-1HBY-2
 HENRY COUNTY
 STATION 515+29.26 (FAI RTE. 80)
 STRUCTURE NUMBER 037-0079

TAMERAN
 A B C
 Reel 166
 SN 037-0079 Rehab

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET	TOTAL SHEETS	SHEET NO.
80-1147-2	HENRY-2	147	115	7
13 SHEETS				



HALF PLAN

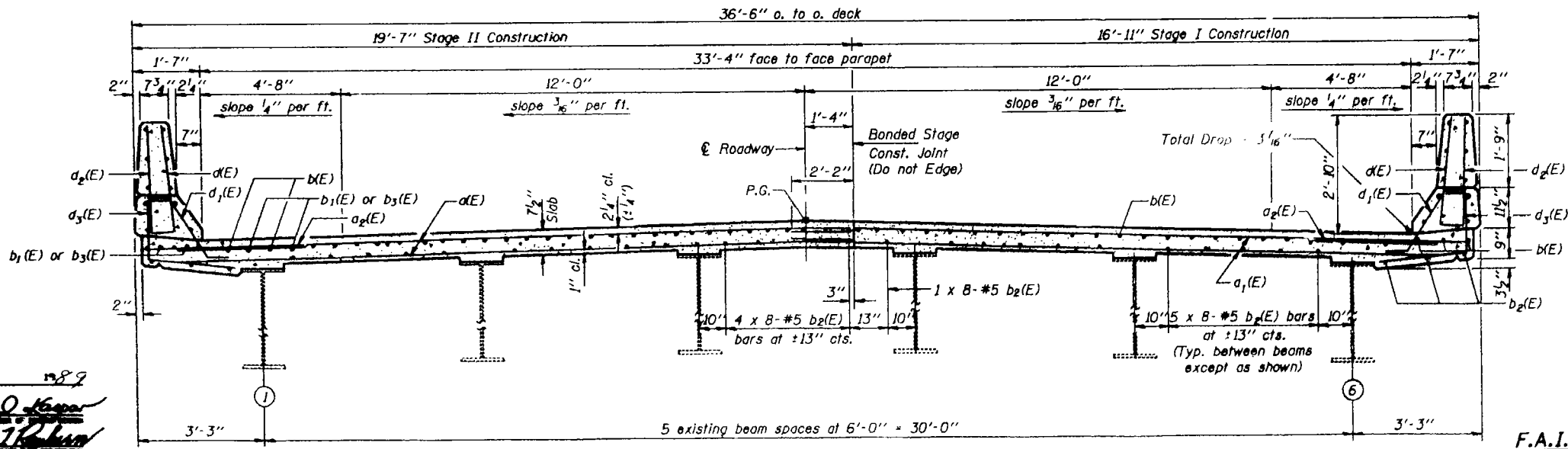
*Order a(E) & a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes: See Sheet #8 of 13 for superstructure details. Section A-A, parapet reinforcement and Bill of Material. Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

** a₁(E) bars lapped with a₂(E) bars shall be tied with double the number of ties normally used.

MIN. BAR LAPS

*5 a(E), a₁(E), a₂(E) & a₃(E) bars shall be lapped 2'-2"
*5 b(E) & b₂(E) bars shall be lapped 1'-8"



NEAR PIERS

CROSS SECTION

(Looking East)

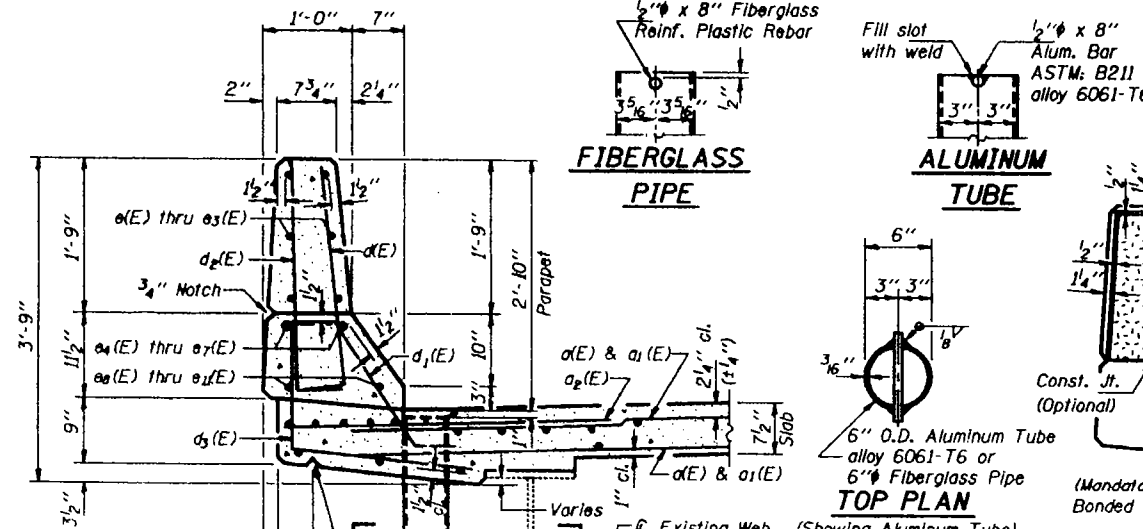
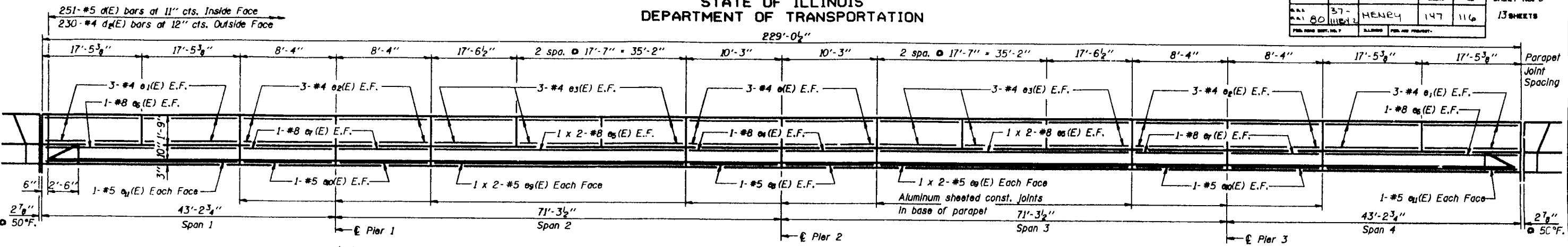
NEAR MIDSPAN

DESIGNED Robert T. Boro
CHECKED Ken H. Malaga
DRAWN B. Sumner
CHECKED KTB
EXAMINED Craig O. Stover
PREPARED James J. Johnson
APPROVED

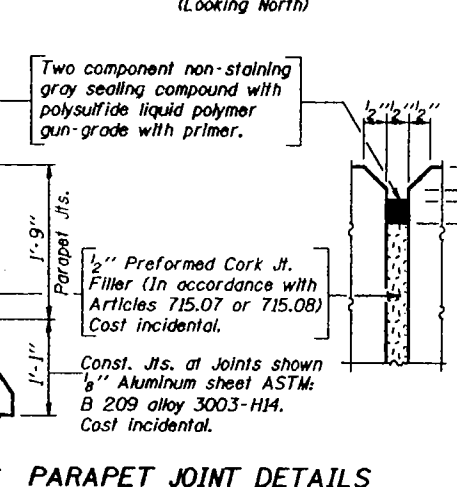
SUPERSTRUCTURE
F.A.I. RT. 80 SEC. 37-1147-2
HENRY COUNTY
STATION 515+29.26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	DESIGNER	DRAWN	CHECKED	SHEET NO. 8
80	37-11BY-2	11/22/87	HENRY	147	116	13 SHEETS
DESIGNED BY		DRAWN BY		CHECKED BY		

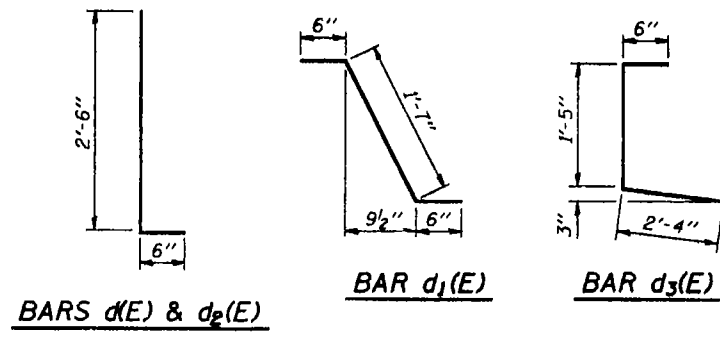


INSIDE ELEVATION OF PARAPET
(Looking North)

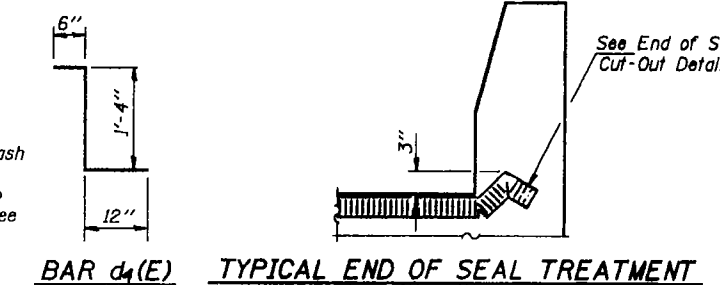


PARAPET JOINT DETAILS

Notes:
The exterior surfaces of the Floor Drain shall be painted with the final finish coat specified for New Structural Steel. The exterior surface of the Aluminum tube shall be cleaned and given a washcoat pretreatment in accordance with Steel Structural Painting Council's Spec. SSPC-SPI & SSPC-Paint 27 prior to painting. Fiberglass to have prewash as per MIL-P-15328 prior to painting.
Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.
See sh. #1 of 13 for Floor Drain Spacing.



BARS d1(E) & d3(E)



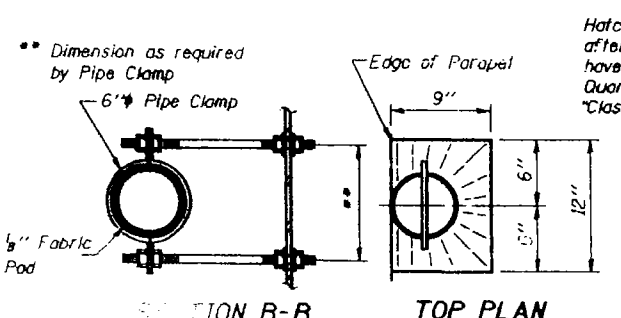
BAR d4(E) TYPICAL END OF SEAL TREATMENT

SUPERSTRUCTURE BILL OF MATERIAL

Bar No.	Size	Length	Shape
d(E)	642 #5	18'-7"	—
a1(E)	642 #5	18'-2"	—
a2(E)	368 #6	4'-6"	—
a3(E)	4 #5	19'-2"	—
a4(E)	4 #5	19'-8"	—
b(E)	273 #5	34'-2"	—
b1(E)	72 #6	35'-6"	—
b2(E)	248 #5	30'-3"	—
b3(E)	36 #6	42'-10"	—
d(E)	502 #5	3'-0"	—
d1(E)	486 #5	2'-7"	—
d2(E)	460 #4	3'-0"	—
d3(E)	460 #4	4'-3"	—
d4(E)	16 #5	2'-10"	—
e(E)	24 #4	10'-0"	—
e1(E)	48 #4	17'-2"	—
e2(E)	48 #4	8'-1"	—
e3(E)	72 #4	17'-4"	—
e4(E)	8 #8	10'-0"	—
e5(E)	16 #8	28'-0"	—
e6(E)	8 #8	34'-8"	—
e7(E)	16 #8	8'-1"	—
e8(E)	8 #5	10'-0"	—
e9(E)	16 #5	27'-2"	—
e10(E)	16 #5	8'-1"	—
e11(E)	8 #5	34'-8"	—
Reinforcement Bars (Epoxy Coated)			Lbs. 61,340
Class X Concrete Superstructure			Cu. Yds. 262.4

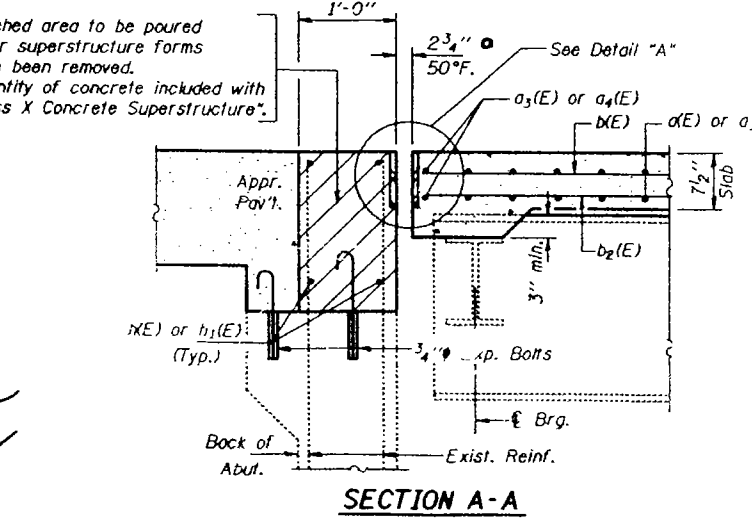
Reinforcement bars designated (E) shall be epoxy coated.
Bars Indicated thus 20 x 3-#5 etc. Indicates 20 lines of bars with 3 lengths per line.

SECTION THRU PARAPET

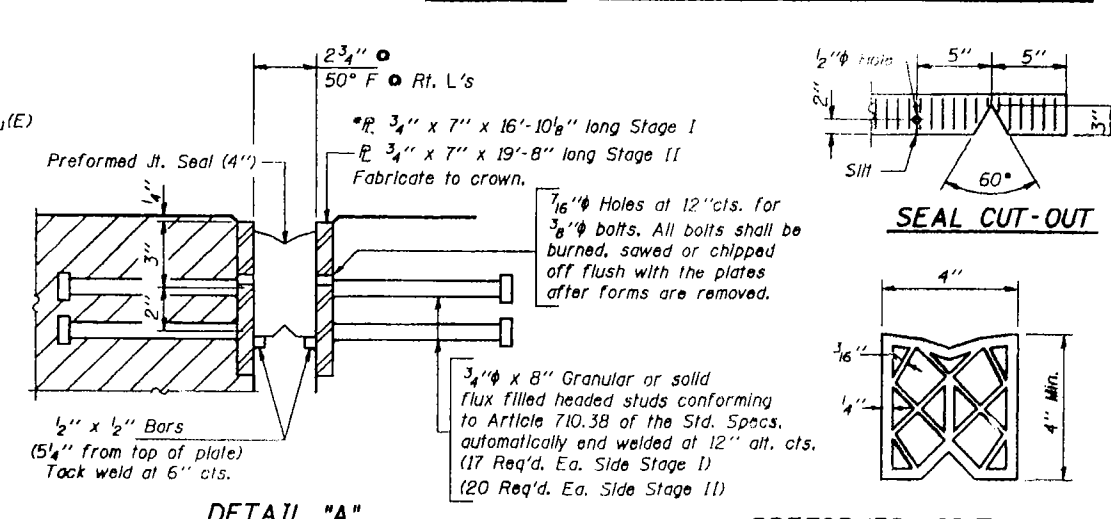


SECTION B-B

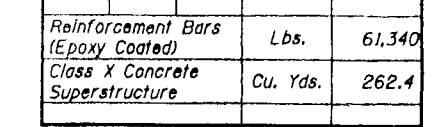
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with "Class X Concrete Superstructure".
Dimension as required by Pipe Clamp
6" Pipe Clamp
1/2" Fabric Pod



SECTION A-A
(Dimensions in Ft. L's)



DETAIL "A"



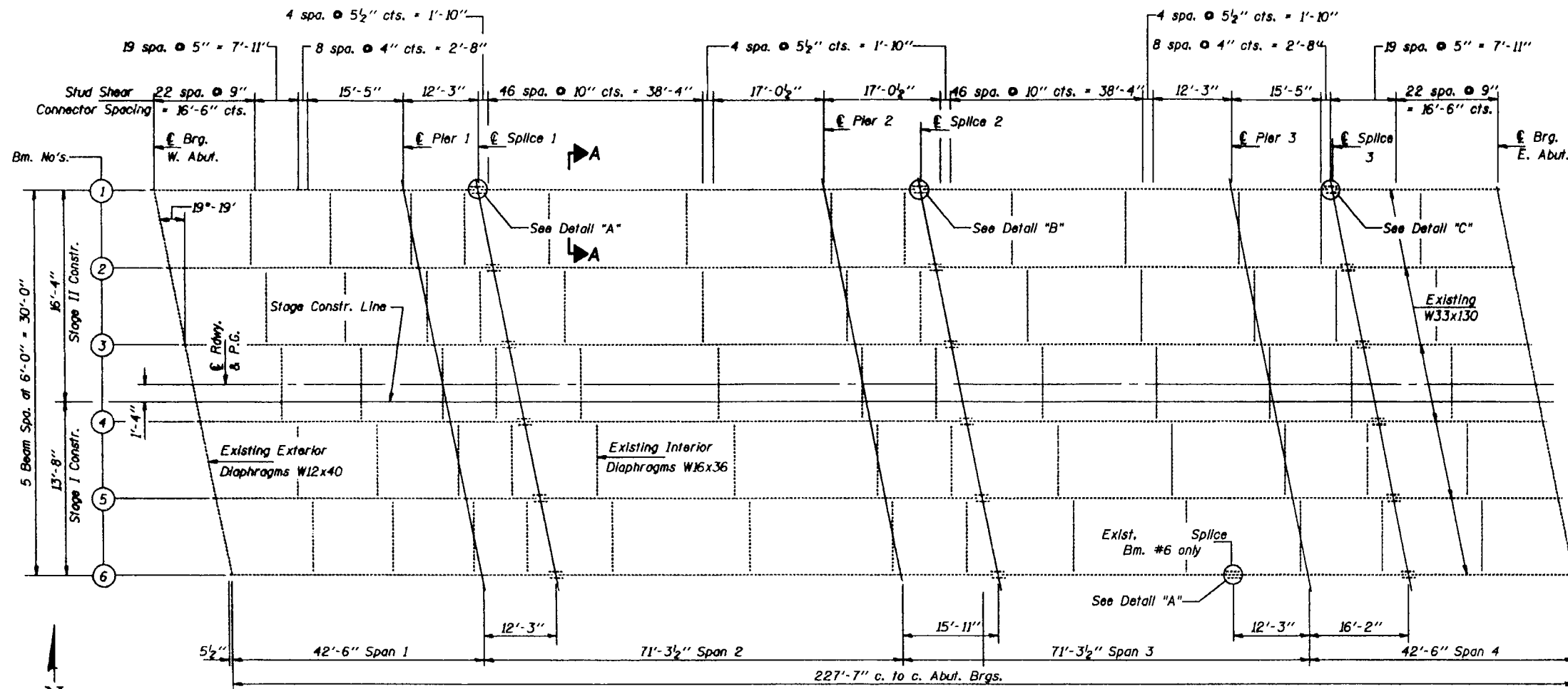
SEAL CUT-OUT

SUPERSTRUCTURE DETAILS
F.A.I. RT. 80 SEC. 37-1HBY-2

HENRY COUNTY
STATION 515+29.26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	BY	CHKD	DATE
80-1184-3			HENRY	147	117
SHEET NO. 9					
13 SHEETS					



INTERIOR BEAM MOMENT TABLE

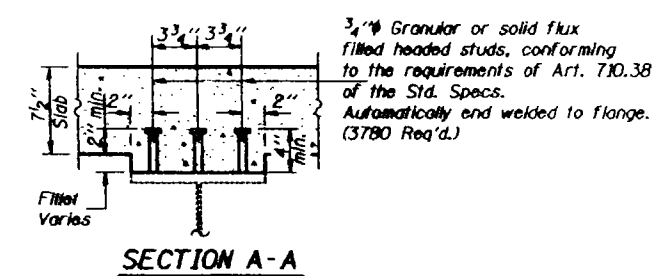
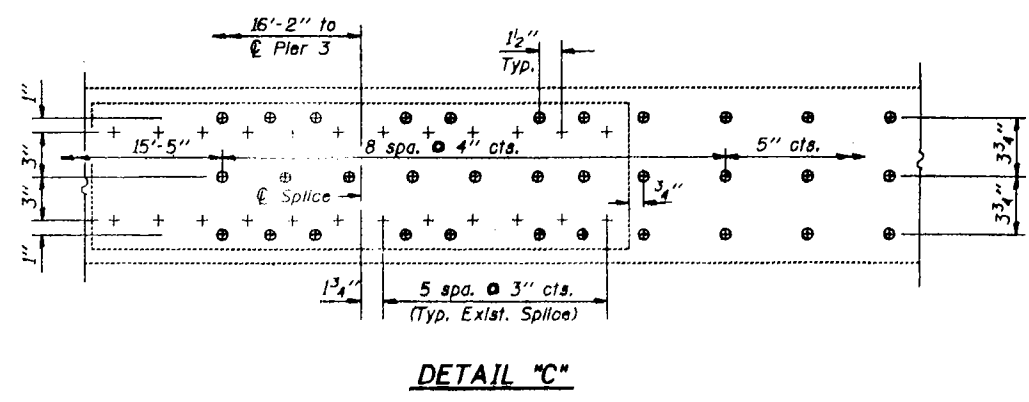
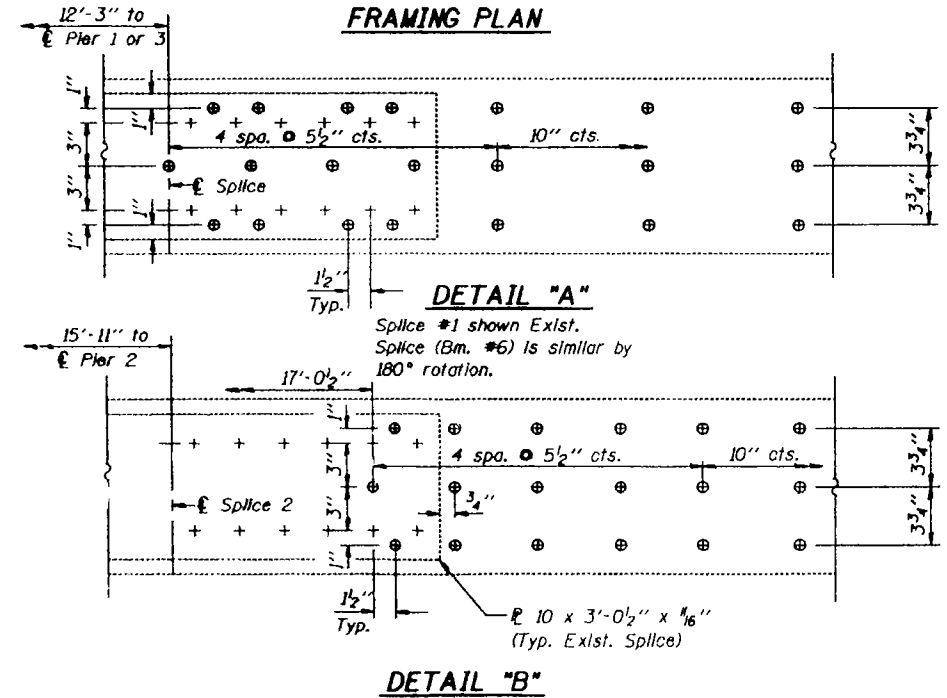
	0.4 Sp. #1 or 0.6 Sp. #4	Piers #1 & #3	.5 Span #2 & #3	Pier #2
I_s	(in ⁴) 6710	6710	6710	8916
I_c	(in ⁴) 17105		17105	
S_s	(in ³) 406	406	406	527
S_c	(in ³) 585		585	
R	(K/ft.) .738	1.014	.738	1.014
M_R	(K) 63.2	314.2	165.0	478.3
M_c	(K/ft.) .276		.276	
M_sR	(K) 30.9		83.0	
M_c	(K) 228.8	185.9	384.6	249.1
M (Imp)	(K) 68.3	51.4	97.9	63.5
$M_2(M_k + I)$	(K) 495.2	395.5	804.2	521.0
M_3	(K) 766.1	922.6	1367.7	1299.2
M_u	(K) 2475		2475	
f_s non-comp (k.s.i.)	1.87	9.29	4.88	10.89
f_s (comp) (k.s.i.)	0.63		1.70	
f_s (k + I)	(k.s.i.) 10.16	11.69	16.50	11.86
f_s (Overload) (k.s.i.)	12.66	20.98	23.08	22.75
f_s (Total) (k.s.i.)		27.3		29.6
VR	(K) 42.9		40.8	

INTERIOR BEAM REACTION TABLE

	Abuts.	Piers #1 & #3	Pier #2
RR	(K) 14.2	62.7	76.9
R_k	(K) 29.5	37.3	41.6
Imp.	(K) 8.8	10.3	10.6
R (Total)	(K) 52.5	110.3	129.1

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Overload).
 VR is the maximum Live Load + Impact shear range in span.
 M_a (Applied Moment) = $1.3(M_R + M_sR + 5/8 M_k + I)$.
 M_u is the Full Plastic Moment Capacity computed according to AASHTO 10.48.1 & 10.50.1.1.
 f_s (Overload) is the sum of the stresses due to $M_R + M_sR + 5/8 M_k + I$.
 f_s (Total) (Non-compact section) is the sum of the stresses due to $1.3(M_R + M_sR + 5/8 M_k + I)$.

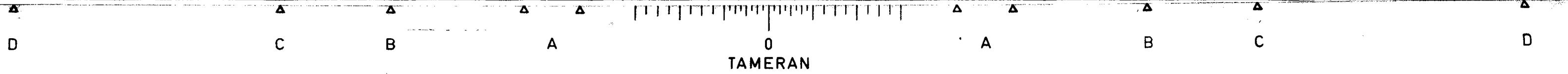
FRAMING PLAN



DESIGNED Robert T. Bora
 CHECKED Alan J. Maloney
 DRAWN R. B. ...
 CHECKED RYB REA

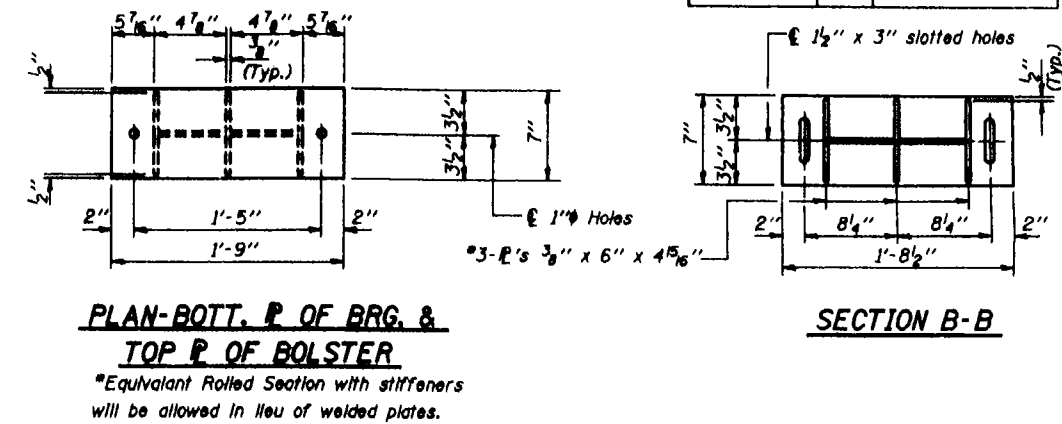
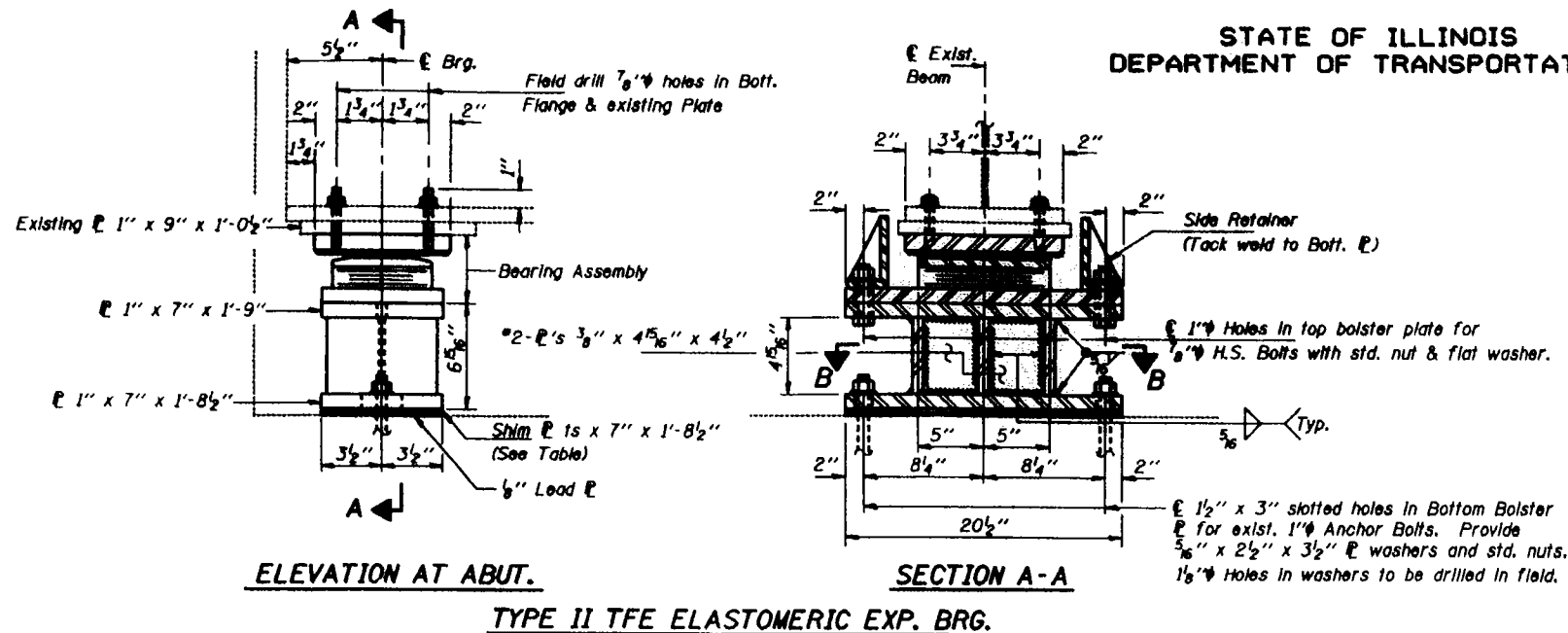
Dec 19 1989
 ENGINEER Craig J. ...
 PROJECT ...
 APPROVED ...

STRUCTURAL STEEL
 F.A.I. RT. 80 SEC. 37-118Y-2
 HENRY COUNTY
 STATION 515+29.26

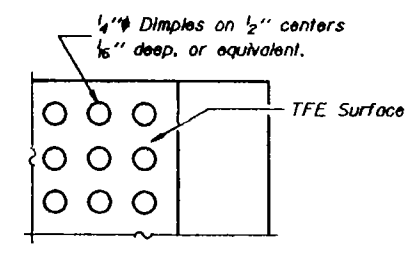
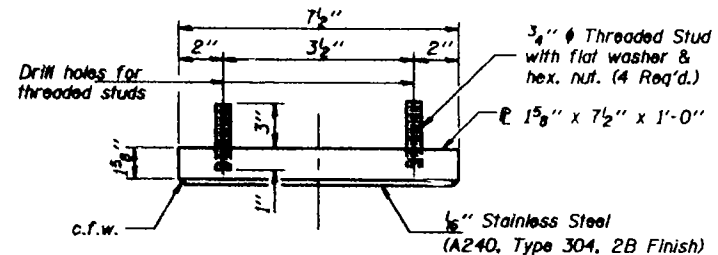


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

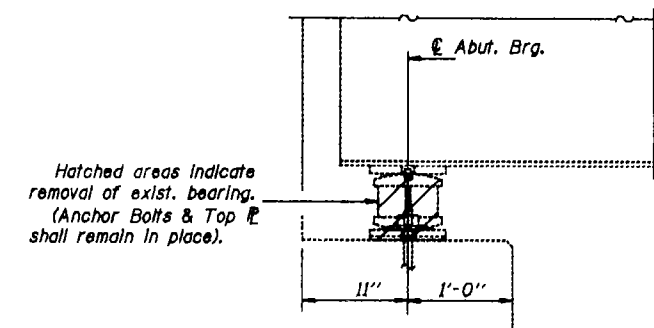
PROJECT NO.	DATE	DESIGNER	JOB NO.	SHEET NO.
BO 118BY-2	3-7-	HENRY	147	118
SHEET NO. 10 13 SHEETS				



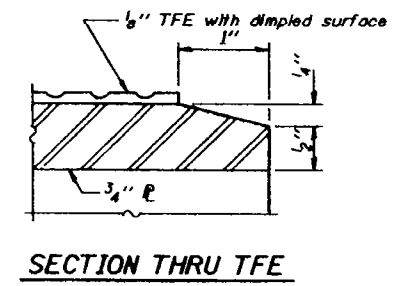
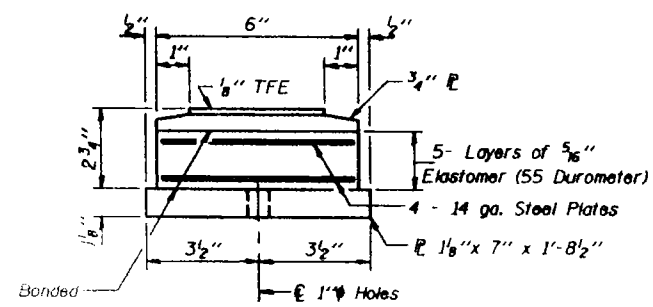
TYPE II TFE ELASTOMERIC EXP. BRG.



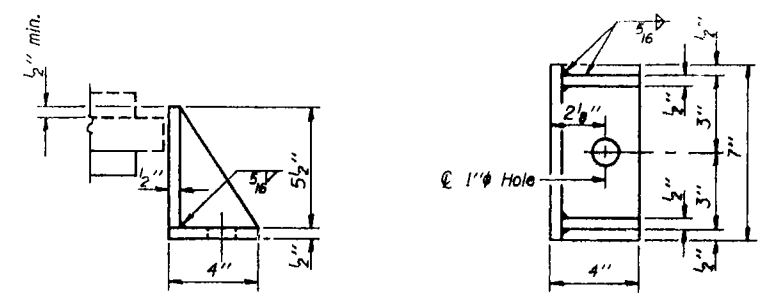
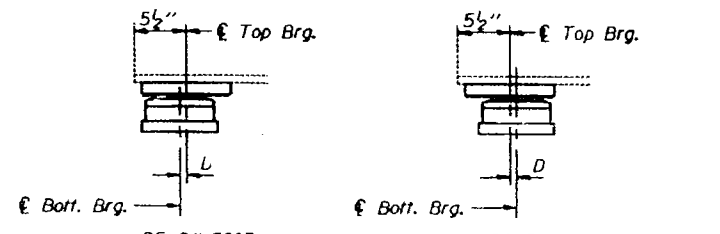
Bm.	W. Abut.	E. Abut.
2	$\frac{3}{8}''$	$\frac{7}{16}''$
3	$\frac{9}{16}''$	$\frac{9}{16}''$
4	$\frac{5}{8}''$	$\frac{1}{16}''$



Notes: Jacking, cribbing, and bearing replacement shall occur under Stage Construction. The maximum dead load reaction with the deck removed (per bearing) at each abutment is 2.1 kips. Bearing removal and replacement shall be completed before new deck is poured.



Note: The $\frac{1}{8}''$ TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of $\frac{1}{8}''$ TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12

BEARING DETAILS
F.A.I. RT. 80 SEC. 37-1HBY-2
HENRY COUNTY
STATION 515+29.26

DESIGNED: Robert T. Bore
CHECKED: Jim H. Walby
DRAWN: R. S. ...
CHECKED: RTB REA

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]