STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-92-003-20

PROPOSED HIGHWAY PLANS

> FAI ROUTE 88 (I-88) SECTION: D2 BP 2020-2

PROJECT: NHPP I6SI(654)

TYPE of IMPROVEMENT: BRIDGE PAINTING ROCK ISLAND & WHITESIDE COUNTIES

ROCK ISLAND & WHITESIDE COUNTIES LOCATION 1 C-92-003-20 SN 098-0056 R.1E. R.3E.

STPPHINGS STONESSED SOURCE PRODUCTION INDICATED THUS:

UBMITTED Dec 02 20 19

REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

STATE OF ILLINOIS

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

WHITESIDE COUNTY
NEWTON TOWNSHIP - SECTIONS 34 & 35

ROCK ISLAND COUNTY
HAMPTON TOWNSHIP - SECTION 24

LOCATION 2
SN 081-0119

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. 64P00

0

INDEX OF SHEETS

COVER SHEET
INDEX OF SHEETS / STATE STANDARDS / GENERAL NOTES SUMMARY OF QUANTITIES EXISTING ROADWAY TYPICAL STAGING TYPICALS TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL) FOR SN 081-0119 TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) FOR SN 081-0119 TRAFFIC CONTROL DETAIL FOR SN 081-0119 (MOLINE RD OVER I-88) TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL) FOR SN 098-0056
TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) FOR SN 098-0056
TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) FOR SN 098-0056
SXISTING PLAN SHEETS SN 081-0119 (FOR INFORMATION ONLY)
SXISTING PLAN SHEETS SN 098-0056 (FOR INFORMATION ONLY)

STATE STANDARDS

OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE 701101-05 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE, FREEWAY/EXPRESSWAY 701301-04 701401-12 LANE CLOSURE, FREEWAL/CAPTRESSWAT

LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH

TRAFFIC CONTROL DEVICES

TEMPORARY CONCRETE BARRIER 701411-09 701426-09 701901-08 704001-08 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS 720011-01 TELESCOPING STEEL SIGN SUPPORT APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) 729001-01

GENERAL NOTES

LOCATION 1 - SN 098-0056

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 081-0119

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

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 098-0056 AND SN 081-0119

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

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.

SCALE.

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INDEX OF SHE	ETS,	F.A.I. RTE	SECTION
STATE STANDARDS & GE	NERAL NOTES	88	D2 BP 2020-2
STATE STANDANDS & GE	INCHAL NOTES		
UEET OF CHEETC	CT. TO CT.		

20

CONTRACT NO. 64P00 *ROCK ISLAND & WHITESID

SUMMARY OF QUANTITIES

			0047 90% NHPP 10% STATE	0047 90% NHPP 10% STATE	
CODE NUMBER	ITEM	UNIT	WHITESIDE COUNTY	ROCK ISLAND COUNTY	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	0.50	0.50	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	_	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1	2
70400100	TEMPORARY CONCRETE BARRIER	FOOT	775	-	775
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	1050	1325
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	-	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	4	6
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	4
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

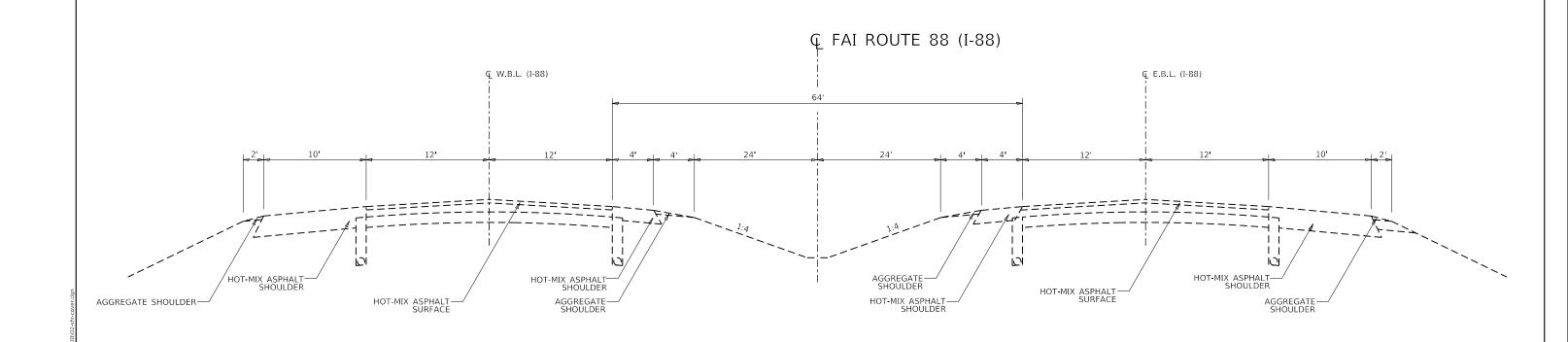
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SUMMARY OF QUANTITIES OF ___ SHEETS STA._

0047

SECTION D2 BP 2020-2 20 3 CONTRACT NO. 64P00

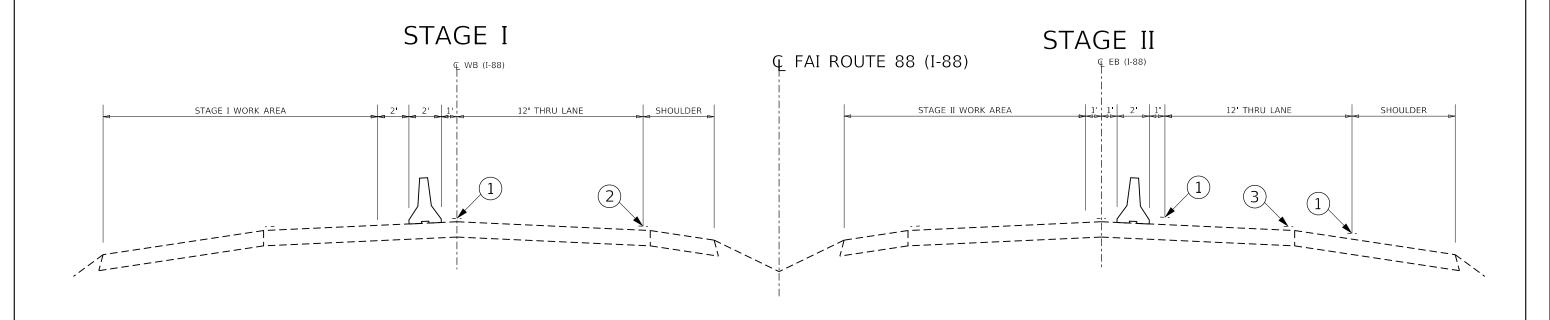
EXISTING TYPICAL

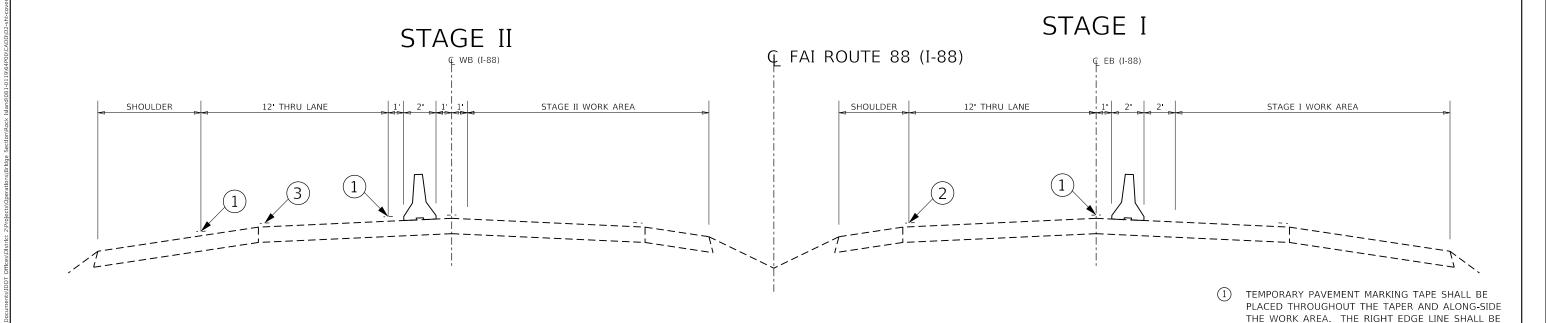


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS



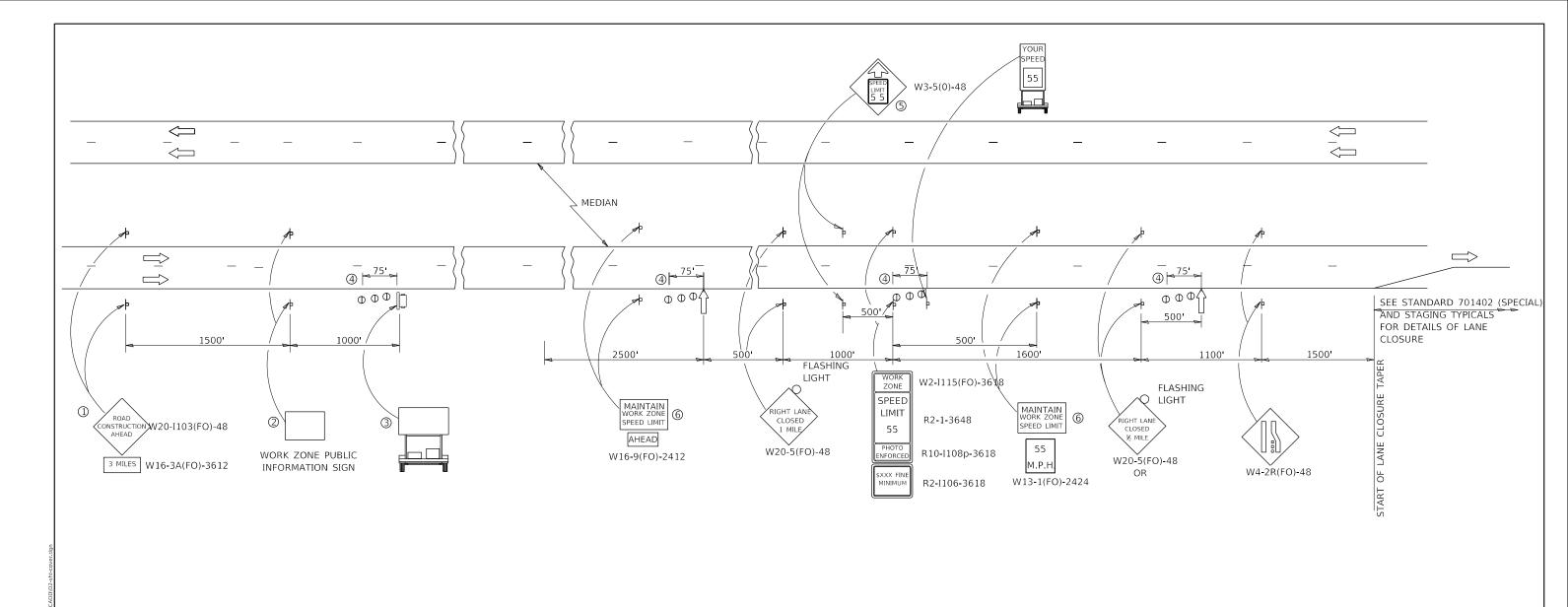


BLACKOUT TAPE TO COVER CONFLICTING EXISTING PAVEMENT MARKING LINES

2 EXISTING PAVEMENT MARKING LINE

WHITE AND THE LEFT EDGE LINE SHALL BE

YELLOW.



- THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ 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"
- THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- (5) THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.
- 6 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



ARROW BOARD



SIGN

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

SCALE:



TRAILER MOUNTED SPEED DISPLAY SIGN

GENERAL NOTE:

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

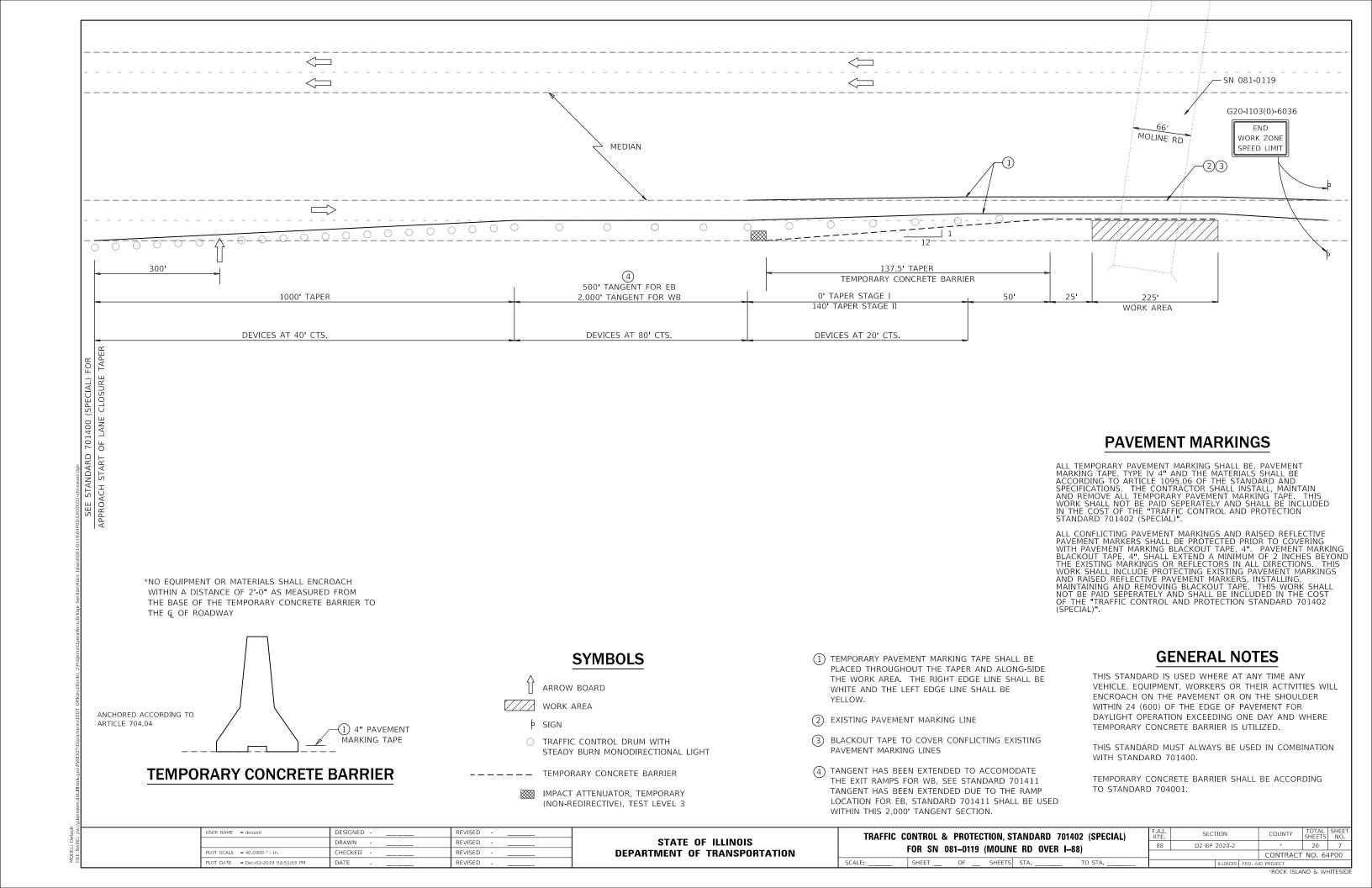
WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

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).

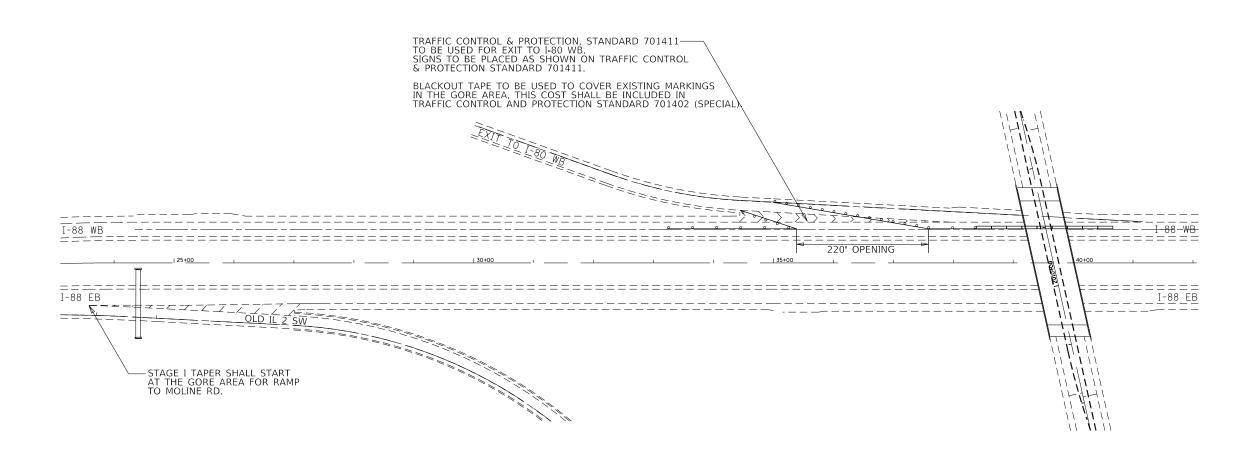
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC C	ONTROL	& PROTEC	CTION, S	TAND/	ARD 701400 (SPECIAL)	F.A.I. RTE	SECT	ΠΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
	FOR SN	021_0110	/MOLIN	F RN	OVER I-88)	88	D2 BP	2020-2	*	20	6
	I OII SIN	001-0113	(IVIOLIIV	LIID	OVER 1-00/				CONTRACT	NO. 6	4P00
ALE:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED	AID PROJECT		



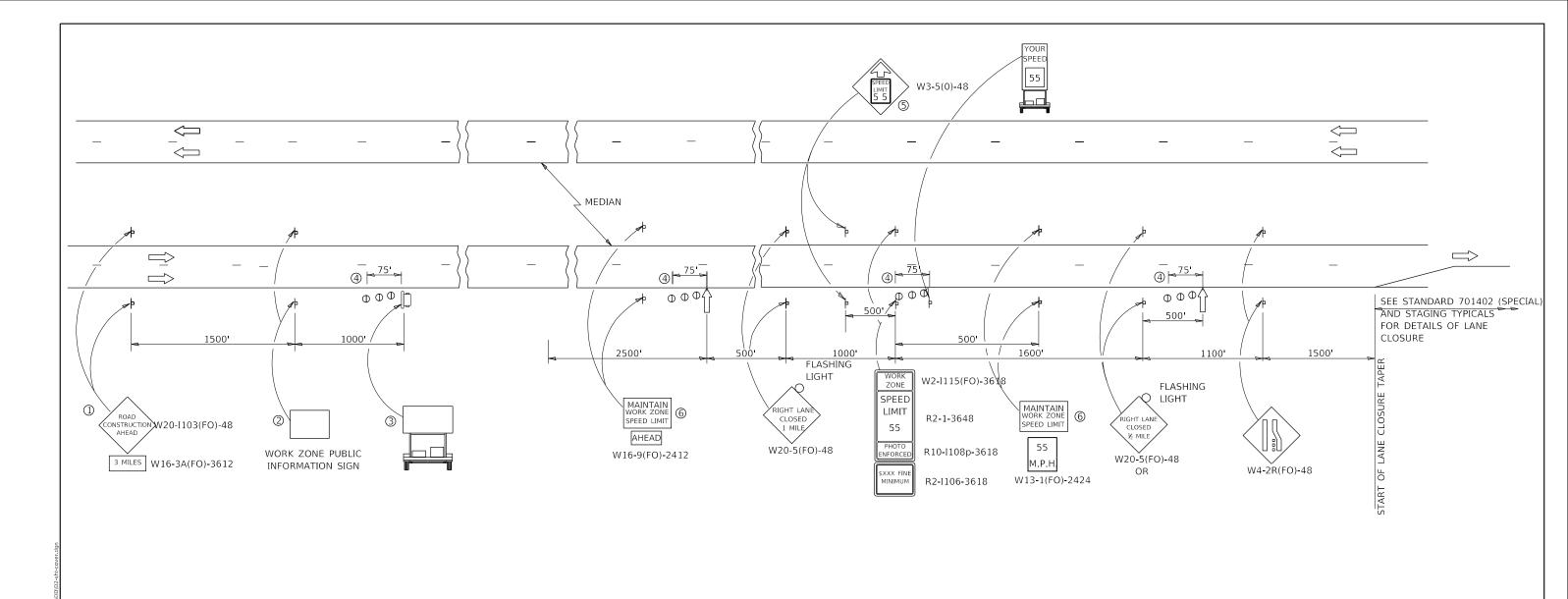
TRAFFIC CONTROL DETAIL FOR SN 081-0119 (MOLINE RD OVER I-88)



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PLOT DATE = Dec-09-2019 08:00:21 AM	DATE	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRAFFIC	CONTROL	. DET	AIL	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR SN	081_0110	/MOLINI	E RN	OVER I-88)	88	D2 BP 2020-2	*	20	8
I OII SIN	001-0113	(IVIOLIIVI	- 110	OVEII I=00/			CONTRACT	NO. 64	1P00
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED A	ID PROJECT		



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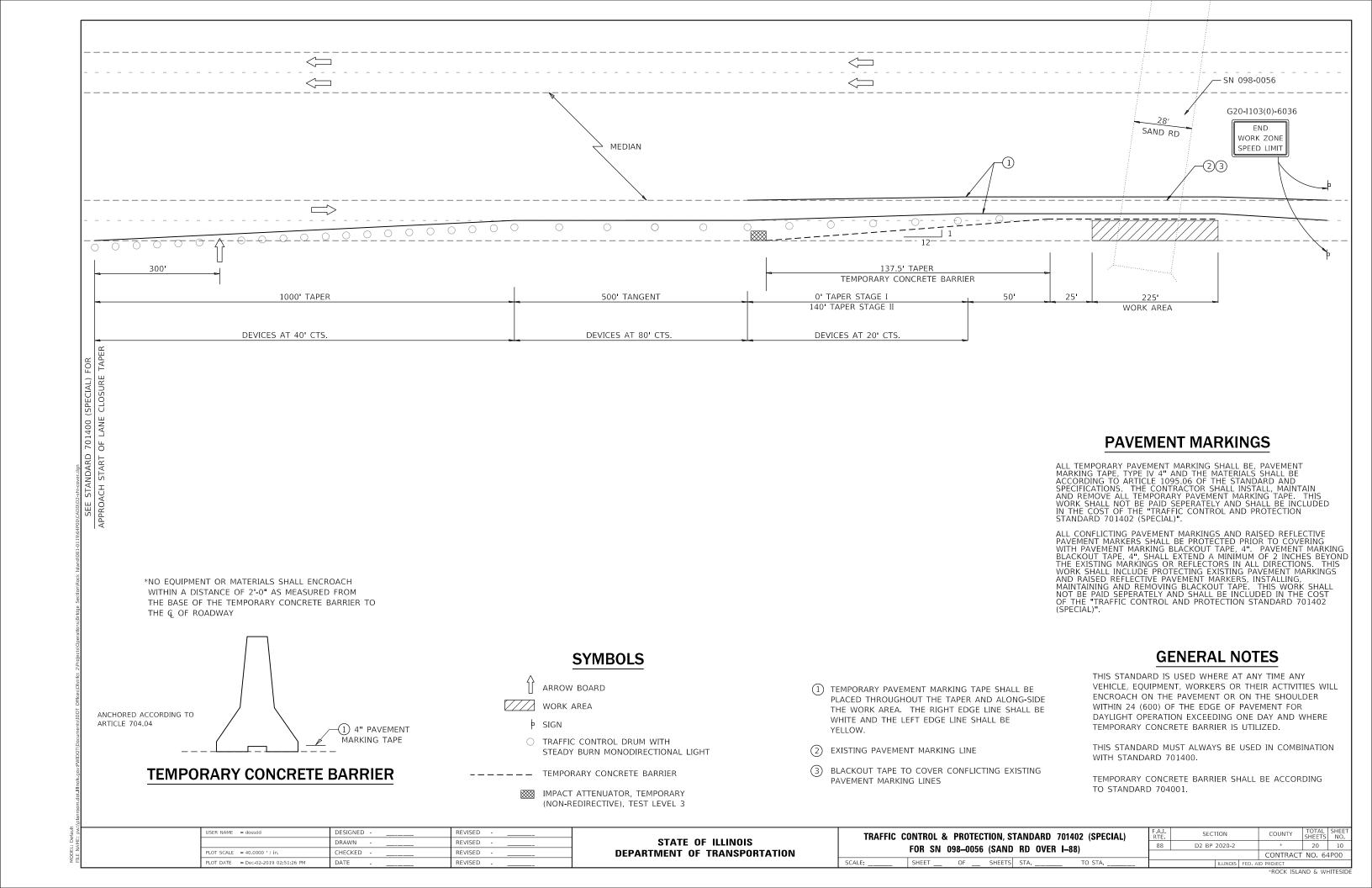
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC C	ONTROL 8	R PROTEC	TION, S	TANDA		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FOR SN	008_0056	(SAND	RD 0	VER I-88)	88	D2 BP 2020-2	*	20	9
	TON SIN	030-0030	(SAIND	יום ט	7VLII 1-00/			CONTRACT	NO. 6	4P00
AI F.	SHEET	OF	SHEETS	STA	TO STA		TILLIMOIS FED .	VID PROJECT		



BUILT 19

BY

FA PROJECT EBRF-403-1(7)

NAME PLATE

HS 20-44 And Allowance For 25 P.S.F. Future

fc=1000 P.S.I. For Conc. In Contact with Earth

13 Prop. Structure

LOCATION MAP

FA 403

Wearing Surface

fc = 1400 P.S.I Except As Follows:

fs = 20,000 PS.I.- MIBSStructural Steel

fs = 20,000 PSI- Reinforcement Steel

Allowable Live Load Deflection=

V = 75 P.S.I. Allowable Shear in Footings

fc = 1200 P.S.I. For Deck Slab.

SEE STD 2113

STATE OF ILLINOIS FA 403 SECTION 161 - IHB

LOADING HS 20

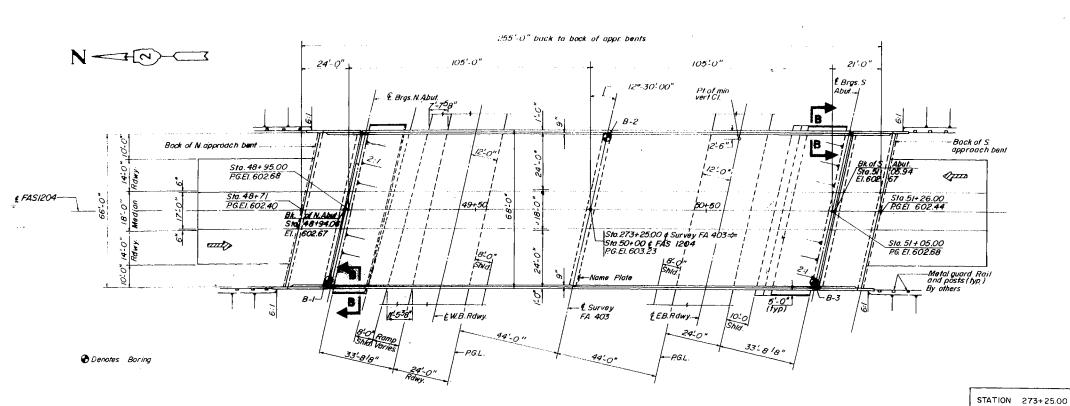
DESIGN NOTES

DESIGN LOADING

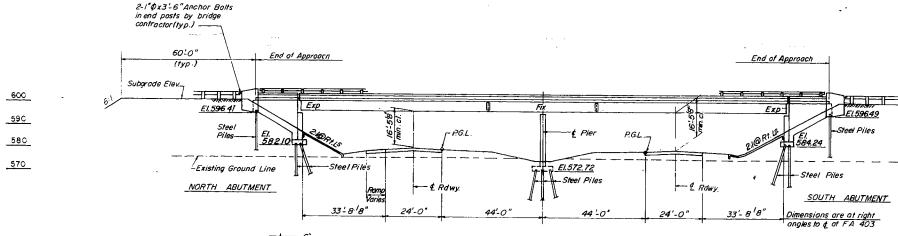
DESIGN STRESSES

L/1200(Composite) DESIGN SPECIFICATIONS AASHO 1969 As Applicable

n = 10



PLAN



Back of abut. Book of abut.

> SECTION THRU SLOPEWALL AT SOUTH ABUT

OMP DESIGNED B.T.M. CHECKED A.MDRAWN CHECKED DMP

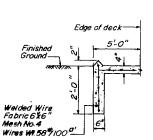
SECTION THRU SLOPEWALL AT NORTH ABUT 0.0%

PROFILE FA-403 ALONG & SURVEY

ELEVATION

400'V.C.

PROFILE FAS 1204 Top of Class I



SECTION B-B

ROUTE NO. SECTION	COUNTY	TOTAL BHEETS	AHEET MO.	SHEET NO. I
r ^ 403 -1	ROCK ISLAND	545	215	15 внеета
PSD. ROAD DIST. No. 7	ILLINOIS PED. AID P	NOJECT.		

GENERAL NOTES

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two '8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

All Reinforcement bars shall be lapped 24 diameters unless otherwise

Field connections shall be bolted using high strength bolts. Bolts 34 0, open holes 1315 " \$\phi\$, unless otherwise noted.

Field welding of construction accessories will not be permitted to the bottom of flange of beams or girders 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

Anchor bolls shall be set before bolling cross frames over supports.

Slope wall shall be reinforced with welded wire fabric 6° x 6° mesh, weighing $58^{\#}$ per 100 Sq. F1.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments

The contractor shall drive three steel lest piles in a permanent location, one each at the north and south abutments and pier as directed by the engineer pefore ordering the remainder of the piles.

The concrete royl section above the Mandatory const. joint at the top of the slab shall be constructed of class X concrete, except the aggregates shall conform to the requirements of handrail concrete.

Protective Coat shall not be applied to surfaces to which Weterproofing Nembron System is applied.

The Basic Lead Silico Chromate Paint System shall be used for shop and field painting of structural steel

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.

TOTAL BULL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Structure Excavation	Cu. Yds.		/35	/35
Protective Coat	Sq. Yds.	747	_	747
Class "X" Concrete	Qu. Yds.	665.7	426.6	1092.3
Structural Steel	L.Sum	0 29		029
Aluminum Railing	Lin.Ft.	499		499
Reinforcement Bars	Lbs.	162,630	52,570	215,200
Stud Shear Connectors	Each	3402	_	3402
		-		
Steel Piles HP8 x 36	Lin.Ft.		3441	344/
Test Piles HP8 x36	Each		.3	3
Name Plate	Each	1 - "	7	7
Slope Wall 4"	Sa Yas	ļ — —	461	46/
Bit. Conc. Surface Course Cl. I	Tons	1/3	_	//3
Waterproofing Men. System	Sq.Yds.	/338	_	1338
Sand Backfill	Cu.Yds.	T -	56/	56/
Preformed Jt. Sealer (A")	Lin.Ft.	139	_	139
Permanent B. M. Type I	Each	1		_/_
	ļ			

Structural Steel = 485,060 Lbs

APPROVED

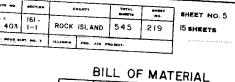
GENERAL PLAN & ELEVATION FA 403 SECTION 161- IHB

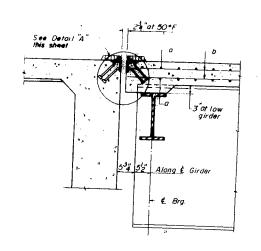
FA 403 UNDER FAS 1204

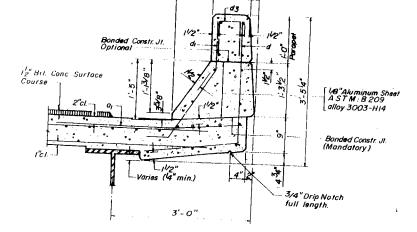
ROCK ISLAND COUNTY STATION 273+25.00

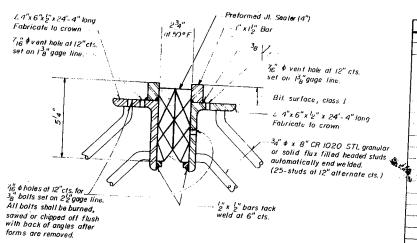
Rev. Reint. Bors Sub from 52,330 to 52,570 ", Total from 214,960 to 215,200 " 10-8-74 D.D.











BAR NO. SIZE LENGTH SHAPE 1352 *****6 336 1392 27' - 5 204 16-6 b2 32 *5 22'-7 b3 24 #8 30'-7" 18'-5" 18'-5" 422 *****5 211 *****5 2'-8" 16' - 8"

422

422 #5

= 4

4'-9"

3' - 7"

Lbs. 127970

Cu. Yds. 488

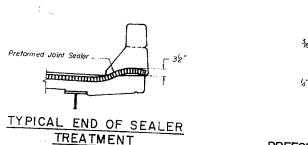
Lbs. 485,060 Sq. Yds. 587

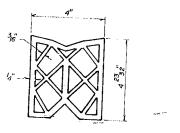
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SECTION A-A





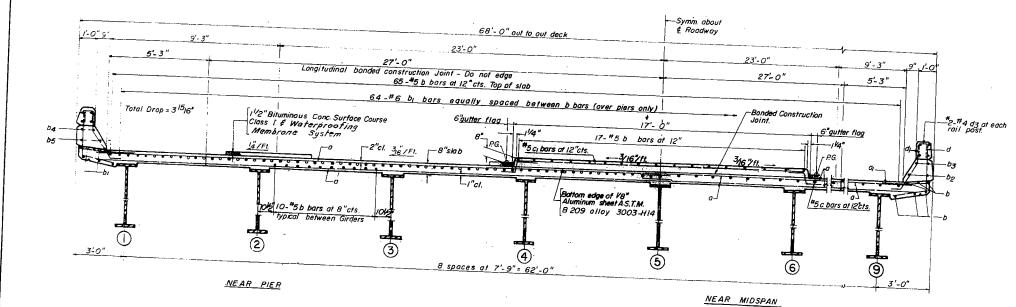


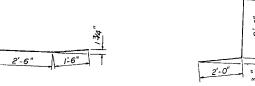
PREFORMED JOINT SEALER (4") (CONT. THRU MEDIAN)

BAR a

DETAIL A

Scale: 3" = 1'-0"

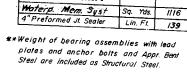


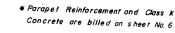






BAR d





Work this Sheet with Sheet No. 4

Reinforcement Bors

* Class X Concrete

** Structural Steel

Protective Coat

Bituminous Conc.

Surface Course Class !

|--|

BTM
1
H. R.S.
6 6

CROSS SECTION

DECK DETAILS

FA 403 SECTION 161-1HB

FA 403 UNDER FAS 1204

ROCK ISLAND COUNTY STATION 273 + 25.00

BOUTE NO. BECTION COUNTY TOTAL BHEETE NO.

8 8 1.

7 A 403 1-1 ROCK ISLAND 545 221

Is and Ss are the moment of inertia and section modulus of the steel section.

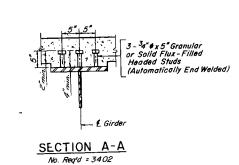
IS SHEETS

Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs.

VR is the maximum 4.+ Impact shear range In span.

INTERIOR GIRDER REACTION TABLE			
	ABUTMENT	PIER	
R Q +SQ (k)	58.80	210.7	
R4+Imp.(k)	55.2	93.7	
R Total (k)	114.0	304.4	

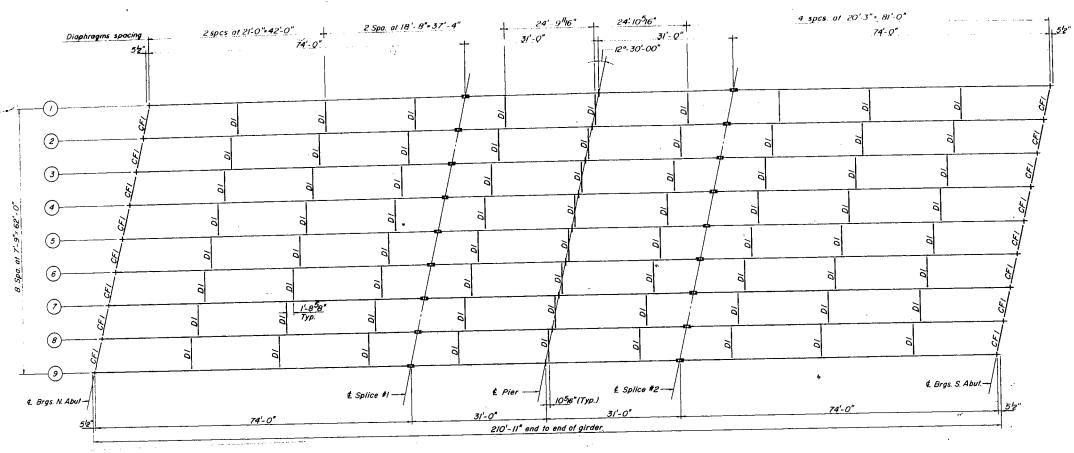
fs Total (ksl) 18.90 VR (k) 65.0



STRUCTURAL STEEL
FA 403 SECTION 161-1HB

FA 403 UNDER FAS 1204

ROCK ISLAND COUNTY STATION 273+25.00

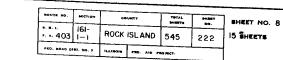


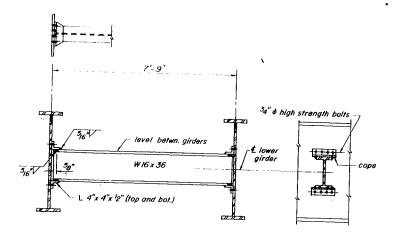
FRAMING PLAN

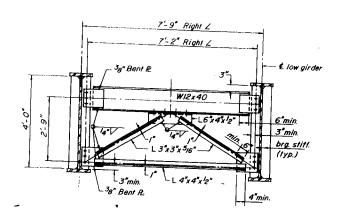
Shear connectors Spacing	- 5 ¹ 2* 10 Spa. at 13 ¹ 2" = 11 ² -3"	2'-2" 37 Spaces at '-4" = 49'-4" O Spa. at 13'2" 74'-0" = 11'-3"	4 Spa.al 6" =2'-0 26'-10" 20'-0" '-0"	26'-10" =2'-0" 	2'-2" 10 Spa. at 3 2" 37 Spaces at -4"=49'-4" - 1/-3" 74'-0"	10 Spa. at 13 ½" 5½" = 11'-3"
		Flange R 14"x34"		Flange R. [16"x2'2"	Flange R 14"x 34"	
2 Rs 6 ¹ 2"x ⁵ 6" Abut. Brg. stiffener	/g=D	48"x '2" Web R throughout	Flange & 16"x1'4" 516" Flange & 16"x1'4"	Flange R. 16"x1'4" 516" 2 R. s 758"x1" Pler Brg. stiffener Flange R. 16"x1'4" Flange R. 16"x1'4"	1 ₄)	*2 ft.s 6 ¹ 2"x ⁵ 6" Abut. Brg. stiffener
	-£ Brg. N. Abut.	Flange & 4"x ⁵ 8"	11-0"	58*/ - £ Pier 11-0"	Flange № 14"x1 ⁵ 8"	£ Brg. S. Abut. ————————————————————————————————————
<u>5½</u>	97	74'-0" 05'-0"	3/-0*		/05'-O"	
			210'-11" end_f	o end of girder		

GIRDER ELEVATION

	· · · · · · · · · · · · · · · · · · ·
DESIGNED	B.T.M.
CHECKED	H. R. S.
DRAWN	1.P.
CHECKED	H.R.S.

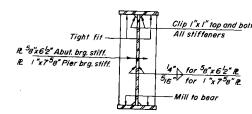






TYPICAL DIAPHRAGM D-1

TYPICAL END CROSS FRAME CF-I



TYPICAL SECTION (At Abut's and Pier)

Note: Hordened woshers shall be regid over 1516 & holes.

* TOP WEB ELEVATIONS						
LOCATION	£ Brg. N. Abut.	É Splice /	£ Pier	4-Sptice 2	É Brg. S. Abu	
Girder I	601.467	601.800	601.800	601.800	601.323	
Girder 2	601.611	601.962	601.962	601.962	601.503	
Girder 3	601.716	602.086	602.086	602.086	601.644	
Girder 4	601.820	602.207	602.207	602.207	601.784	
Girder 5	601.923	602.328	602.328	602.328	601.923	
Girder 6	601.784	602.207	602.207	602.207	601.820	
Girder 7	601.644	602.086	602086	602.086	601.716	
Girder 8	601.503	601.962	601.962	601.962	601.611	
Girder 9	601.323	601.800	601.800	601.800	601.467	

DESIGNED 8 T M HFS CHECKED DRAWN AM CHECKED

To" # H.S. Bolts

R 2"x14"x1'-6"

L 78" # H.S. Bolls

Top Flange

Web Splice

Bottom Flange

DETAIL OF SPLICE #1
(Splice #2 opposite hand)

-R 58"x14"x3'-04"

2 Rs 2"x 6"x 3'-04"

2 ft.s ½"x. 19" x 3'-7" (/ - each face)

78" O H.S. Bolls

-2 Rs 58"x6"x3'-64"

-R38"x14"x1'-9"

-R 58"x14"x 3: 614"

STRUCTURAL STEEL FA 403 SECTION 161-1HB FA 403 UNDER FAS 1204

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ROCK ISLAND COUNTY

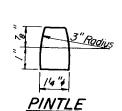
STATION 273 + 25.00

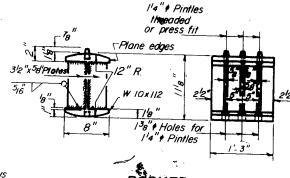
Tight fit— R ⁵ 8' <u>x6'2" Abut. brg. stift.</u> R 1 "x7 ⁻⁵ 8" Pier brg. stiff.	Clip I"x I" top and bott. All stiffeners 4" for 58"x6'2" R 516" for 1"x758" R
•	Mill to bear

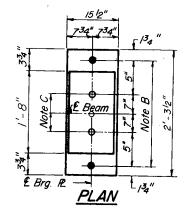
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS



É Brg. R 12"x 142"11-8" R 278"x 15 12"x2-312" Anchor bolts ELEVATION



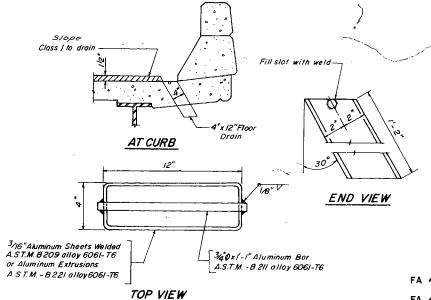




NOTE C

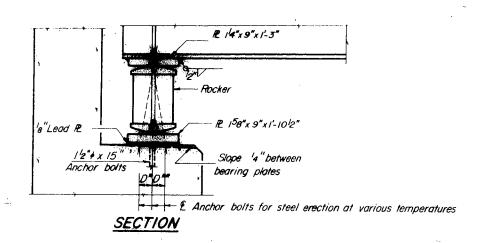
138" ♦ Holes | " deep in top PL only for 114" ♦ pintles. Thread or press fit pintles in bottom P.

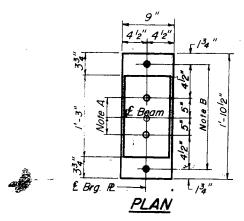
BEARING ASSEMBLY DETAILS



FLOOR DRAINS Cost Incidental

BEARINGS FA 403 SECTION 161-1HB FA 403 UNDER FAS 1204 ROCK ISLAND COUNTY STATION 273+25.00





AT ABUTMENT

NOTE A 138" Holes - I" deep in top P. for pintles. Thread or press fit pintles into bottom R.

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

a) D*(Side of brg. away from fixed brg.) D* 's" per each IOP of expansion for every 15° fall below the normal temp. of 50°F D**(Side of brg. toward fixed brg.)

D** = '8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.

b) After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

DESIGNED	B. T. M.	
CHECKED	H. R. S.	
DRAWN	A.M.	
CHECKED	H.R. S.	

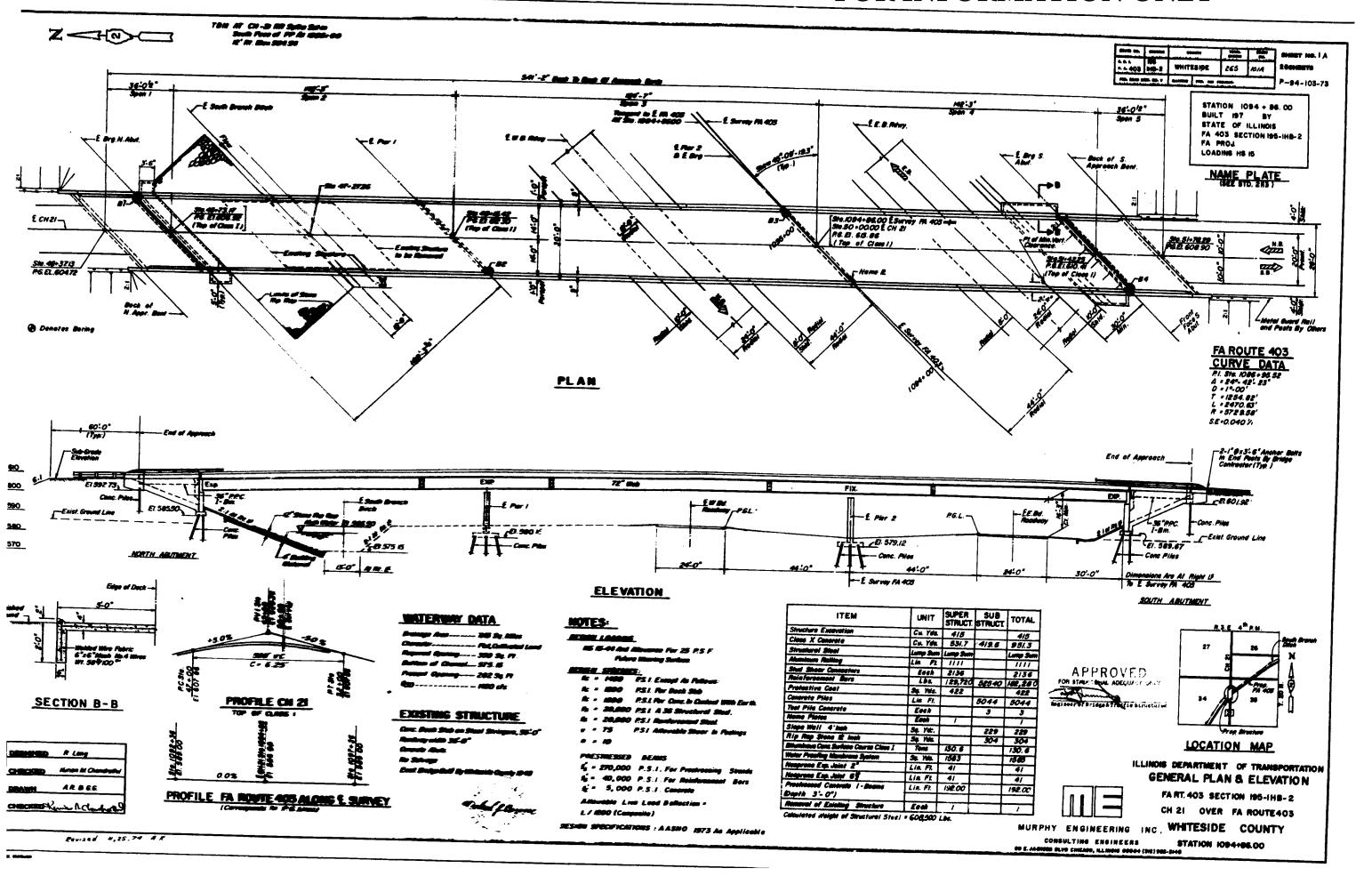
2" Holes for 1/2" anchor bolts

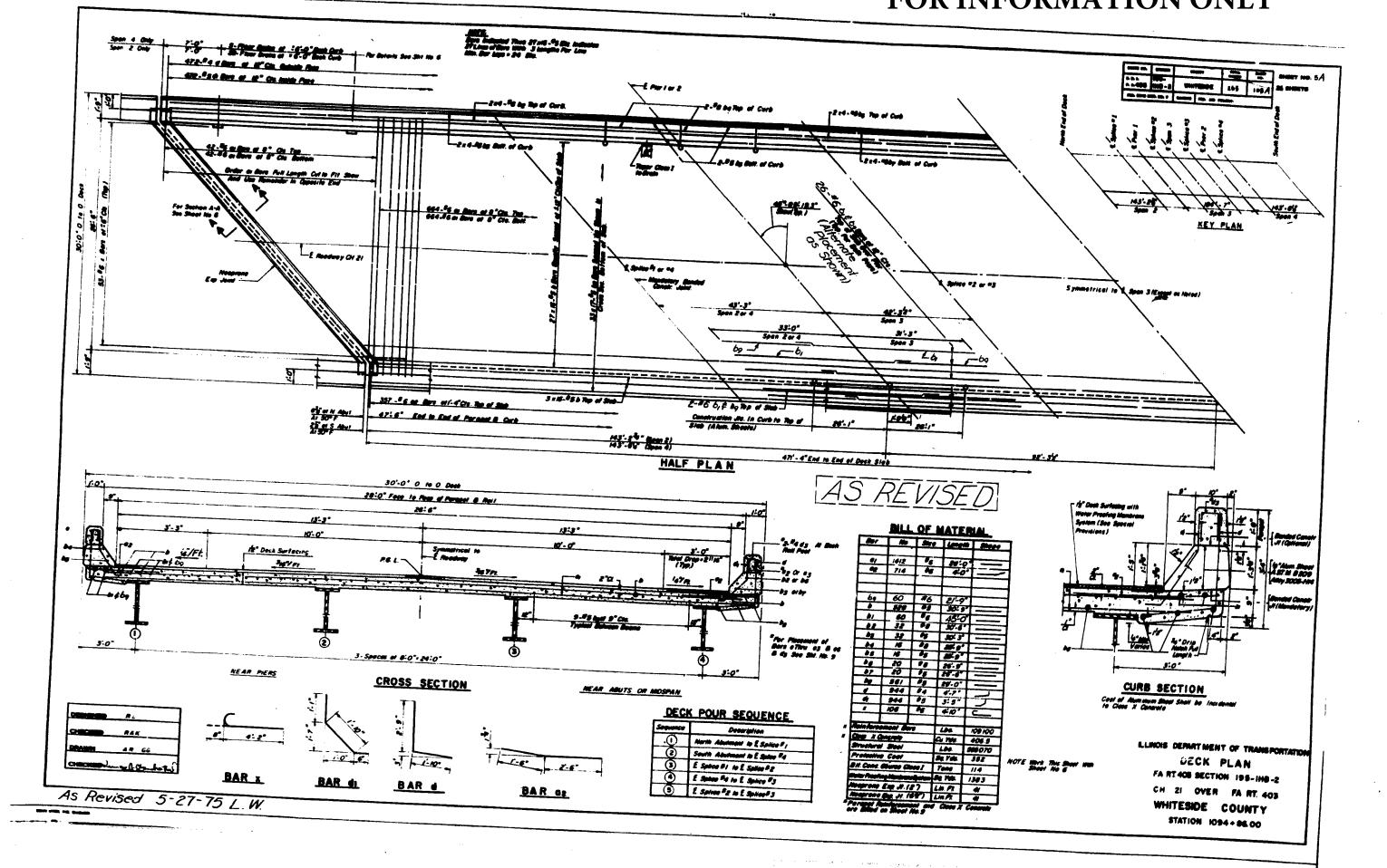
5/6" x 2 12" x 2 12" P. Washers

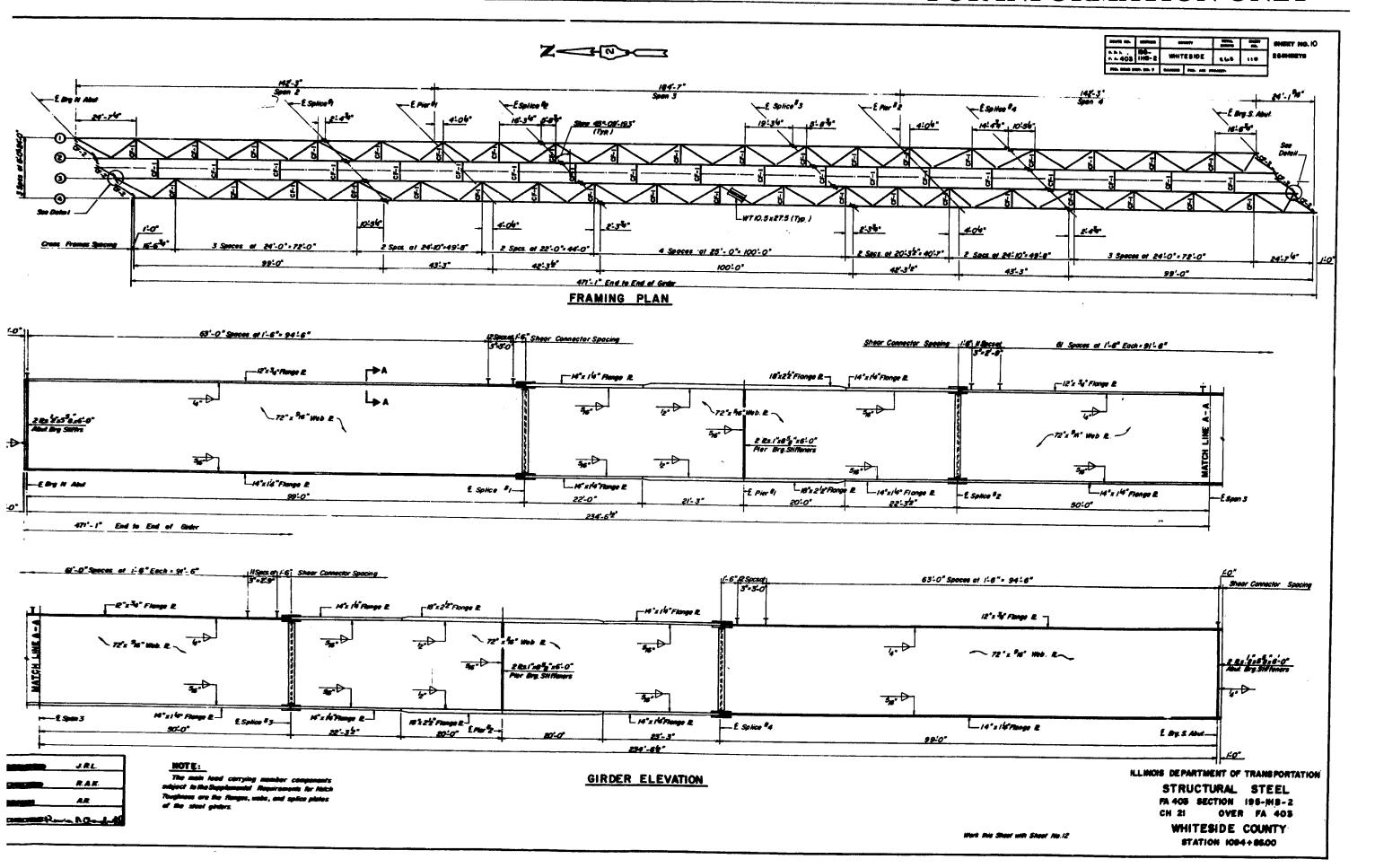
under nut

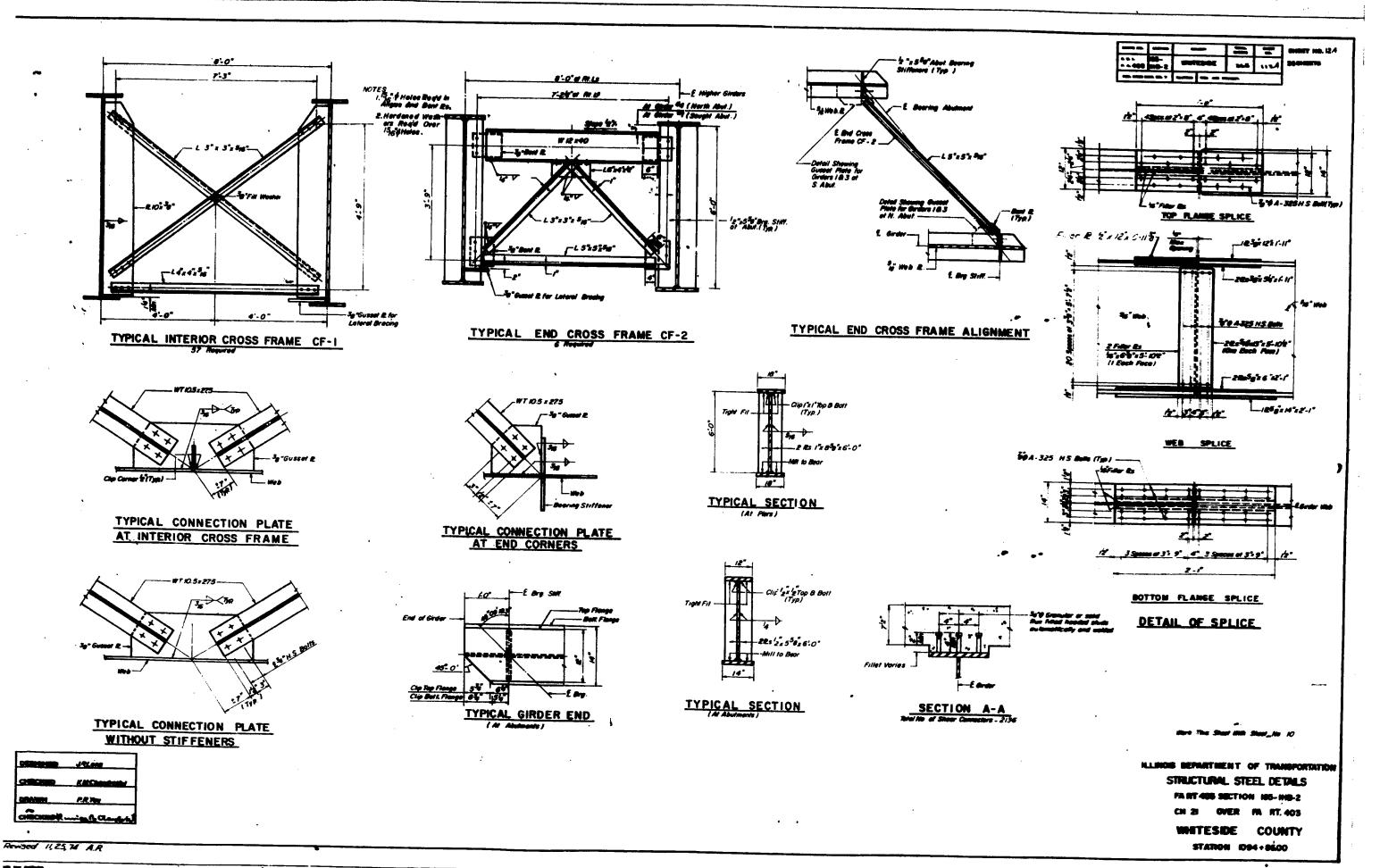
AT PIER

(2)

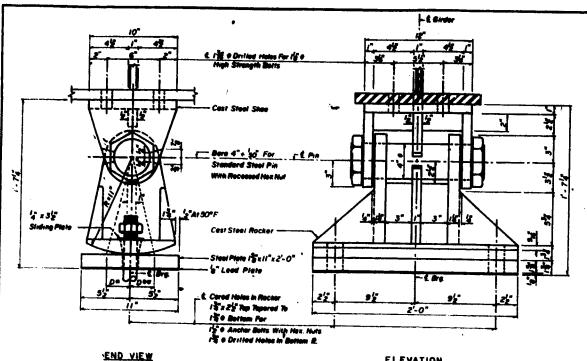








MIL. No. 644



ELEVATION

EXPANSION BEARING - AT ABUTMENTS

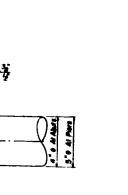
NOTES ON SETTING OF ANCHOR BOLTS AT EXP BRGS a) Do(Side of Brg. Away From Fixed Brg.) D" . " Per Each 100" of Expension for Every 15" Fall Below the Normal Tomp. of 50°F.

Due (Sies of Brg. Toware France Brg.) Date 1 Per Each 100' of Expension for every 15" Rise Above the Normal Tamp, of 50°F.

b). After Girders have been erected and dimensions: $D^{\, \alpha}$ or $D^{\, \alpha \alpha}$ determined, holes shell be drilled and anchor polls shall be growted in place a minimum of 15" in the concrete. All fixed enchar boils may be built into the mesonry.

NOTE:

Cost steel shall be Class 90. Structural steel welde equal sections and meeting ASTM A 486 may be substituted for cestings at the option of the Centractor, subject to approvel by the Engineer prior to febrication. No additional compensation will be allowed the Confractor



PIN DETAIL

Cost Pin Surface With Anti-rust

Compound or Lacuser

18% 41 Pret 1

PLAN . SECTION F-F

RECESSED NUT DETAILS

CHECKED & Junion 1 Clared

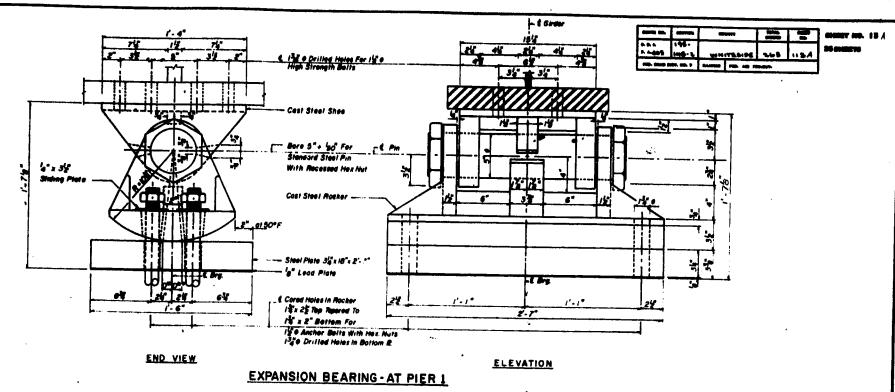
BEARING ASSEMBLY DETAILS

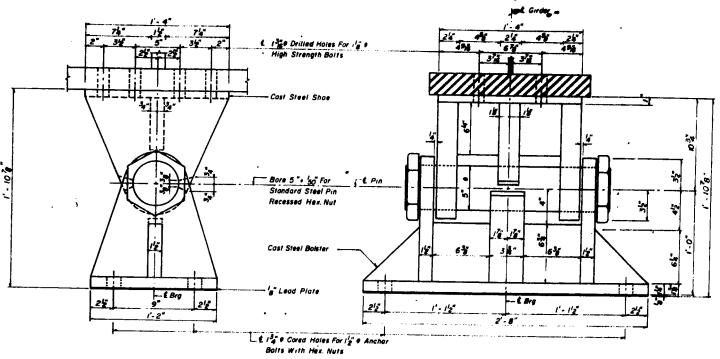
Al Apris

5% For 4" 9 Pm

74 For 5" @ Pin

rÞF





END VIEW

FIXED BEARING-AT PIER 2

ELEVATION

ILLINOIS DEPARTMENT OF TRANSPORTATION BEARING DETAILS FART. 403 SECTION 195-1HB-2 CH 21 OVER FA ROUTE 403 WHITESIDE COUNTY STATION 1094+86.00