

03-06-2015 LETTING ITEM 036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

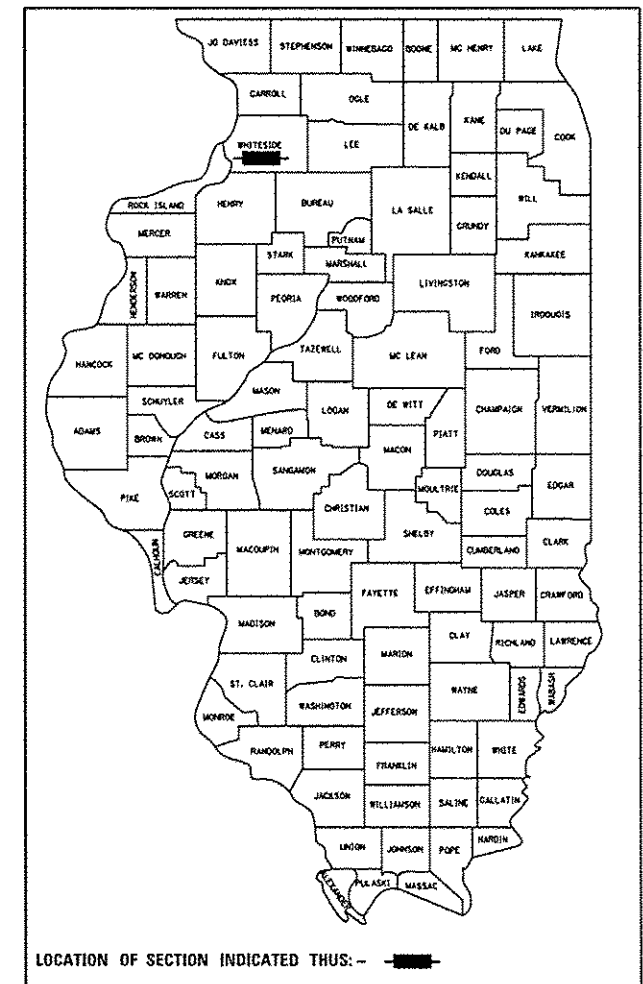
FAI ROUTE 88 (I-88)
SECTION (195-3B & 195 3B-1P)

WHITESIDE COUNTY

C-92-090-14

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	195-3B & 195-3B-1P	WHITESIDE	21	1
		ILLINOIS	CONTRACT NO. 64K48	

D-92-068-14



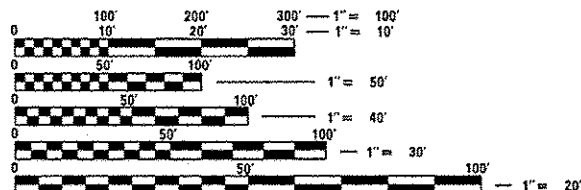
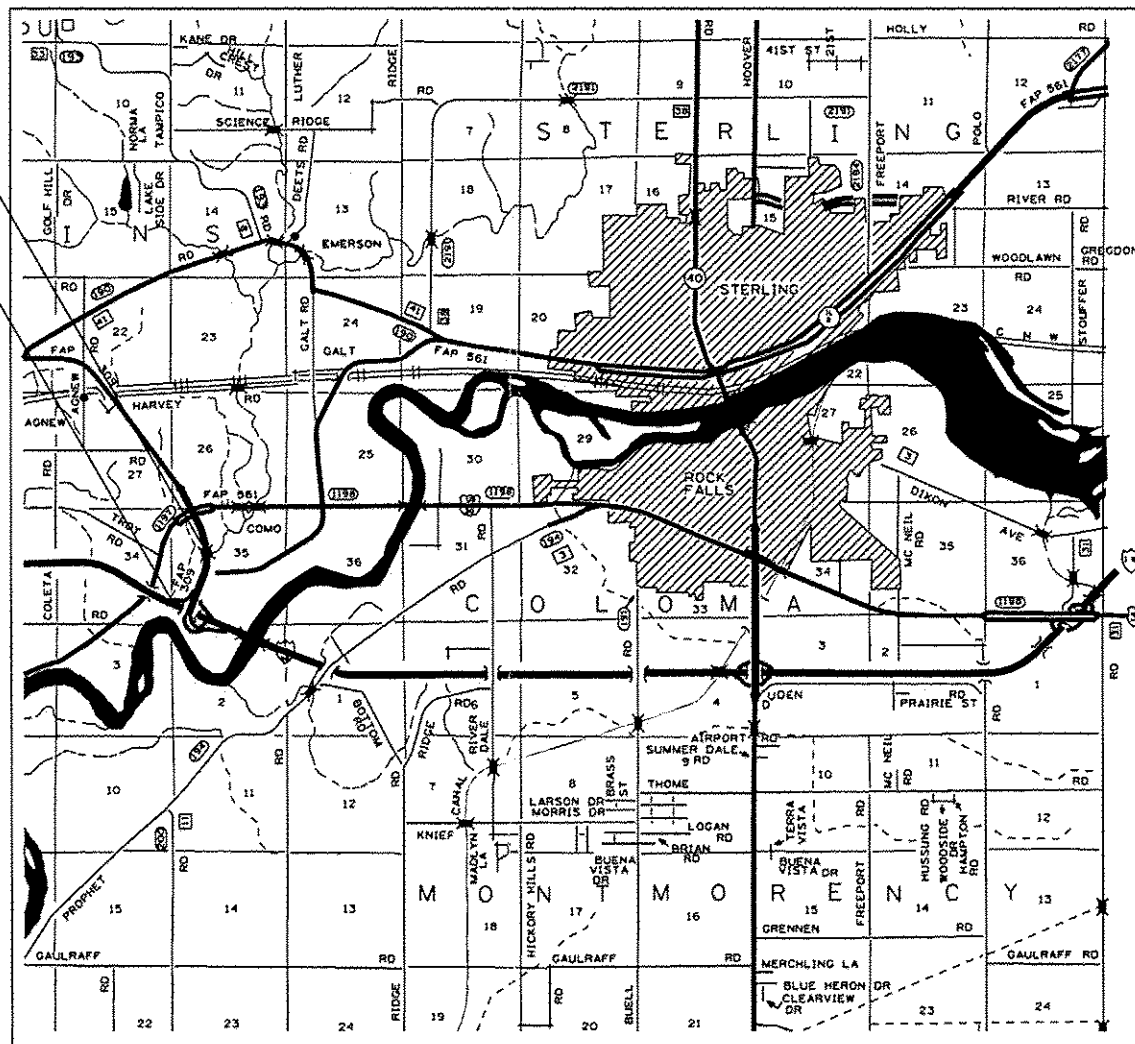
LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

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

HOPKINS TOWNSHIP - SECTION 35

SN 098-0093
SN 098-0094

SN 098-0092



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

CONTRACT NO. 64K48

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 10th 2014
Paul A. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30 2015
John D. Baranzelli, PE, Inc.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 2015
Emir Osman, PE, Inc.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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STATE STANDARDS

- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-10 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 701406-09 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- 701451-03 RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-04 TRAFFIC CONTROL DEVICES
- 704001-07 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)

FILE NAME : D:\BP\Draws\Whiteside\64K48 Partial Clearing & Painting SN 098-0092, 0093 & 0094\CD\DRAWING\48-shs-cover.dgn	USER NAME : dosadd	DESIGNED - _____	REVISED - 8-18-2014 DD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLT SCALE : 40,0000 / in.	CHECKED - _____	REVISED - _____	88			1195-3B & 195-3B-1JP	WHITESIDE	21	2	
PLT DATE : Thu Dec 18 09:27:05 2014	DATE - _____	REVISED - _____	CONTRACT NO. 64K48			ILLINOIS FED. AID PROJECT				
Default				SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____				

GENERAL NOTES

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.

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 following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

ELECTRIC:

COMMONWEALTH EDISON COMPANY
ATTN: NORA FERNANDEZ (815) 490-2869
123 ENERGY AVENUE
ROCK ISLAND, IL 61109

TELEPHONE:

AT&T
ATTN: DAVID GREEN (309) 757-4707
2800 7TH STREET
MOLINE, IL 61265

COMMUNICATIONS:

G4S TECHNOLOGY, LLC
ATTN: CECIL KUHSE (630) 343-2155
565 WILLOWBROOK CENTER PARKWAY
WILLOWBROOK, IL 60527

LIGHTCORE

ATTN: JUSTIN FRENCH (636) 887-4755
1151 CENTURYTEL DRIVE, BLDG A
WENTZVILLE, MO 63385

WATER:

IL AMERICAN WATER COMPANY
ATTN: (815) 625-3196
304 SECOND AVENUE
STERLING, IL 61081

CATV:

COMCAST CABLE
ATTN: MICHAEL OWENS (815) 395-8977
4450 KISHWAUKEE STREET
ROCKFORD, IL 61109

SEWER:

CITY OF STERLING
ATTN: SCOTT SHUMARD (815) 632-6624
212 3RD AVENUE
STERLING, IL 61081

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

No Stream Permits have been procured for this project. None are required from the Regulatory Agencies as long as there is no debris falling or being placed into the stream. Any temporary fill in the stream or the compromising of the dike (if applicable) will not be allowed. If the contractor chooses to use alternate/modified construction method(s) from the aforementioned, they will be responsible for obtaining the proper permits. No relief or compensation will be given for any delays, working days charged, or calendar days expired as a result of the loss of time or delay during the re-submittal process to procure the necessary permit(s) due to the contractor choosing alternate/modified construction method(s). Absolutely no construction activities will take place without the proper permits being secured

A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS, SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

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.

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.

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.

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

HAZARDS BEHIND TEMPORARY CONCRETE BARRIER WALL:
NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 3'-6" OF THE TEMPORARY CONCRETE BARRIER WALL, MEASURED FROM THE CLOSEST POINT OF THE BARRIER WALL PERPENDICULAR TO THE HAZARD. EQUIPMENT THAT IS ACTIVELY WORKING WITHIN 3'-6" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER, REQUIRED FOR THE WORK ACTIVITY, AND THERE IS NOT ANOTHER METHOD TO COMOPLETE THE WORK.

FILE NAME :	USER NAME : doadd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BP\Docs\Whiteside\64K48 Partial Clean	ing & Painting SH 090-0092, 0093 & 0094	CHECKED -	REVISED -			88	(195-3B & 195-3B-1P)	WHITESIDE	21	3	
Default	PLOT SCALE * 40,0000 / in.	CHECKED -	REVISED -			CONTRACT NO. 64K48		ILLINOIS FED. AID PROJECT			
	PLOT DATE * Thu Dec 10 09:20:15 2014	DATE -	REVISED -			SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____			

SUMMARY OF QUANTITIES

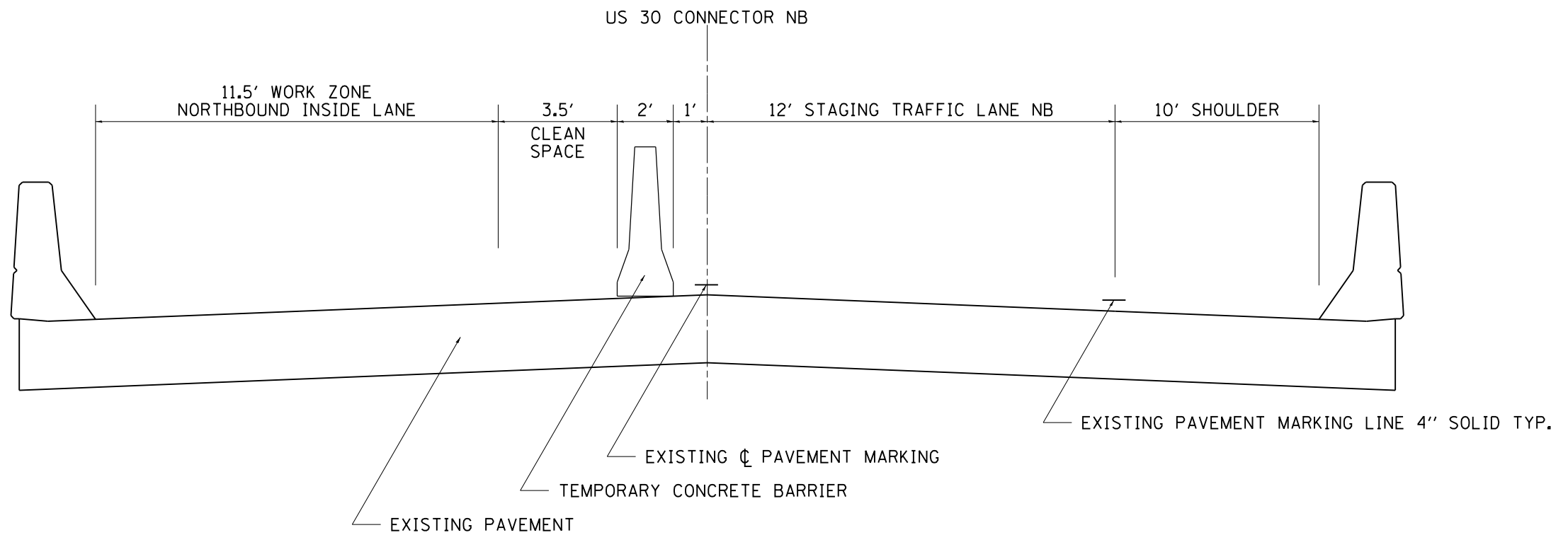
0014
100%
STATE

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
70300220	TEMPORARY PAVEMENT MARKING LINE 4"	FOOT	2,522
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	841
70400100	TEMPORARY CONCRETE BARRIER	FOOT	595.49
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1

17

STAGING TYPICAL

STAGING NORTHBOUND (SN 098-0093 OVER ELKHORN CREEK)



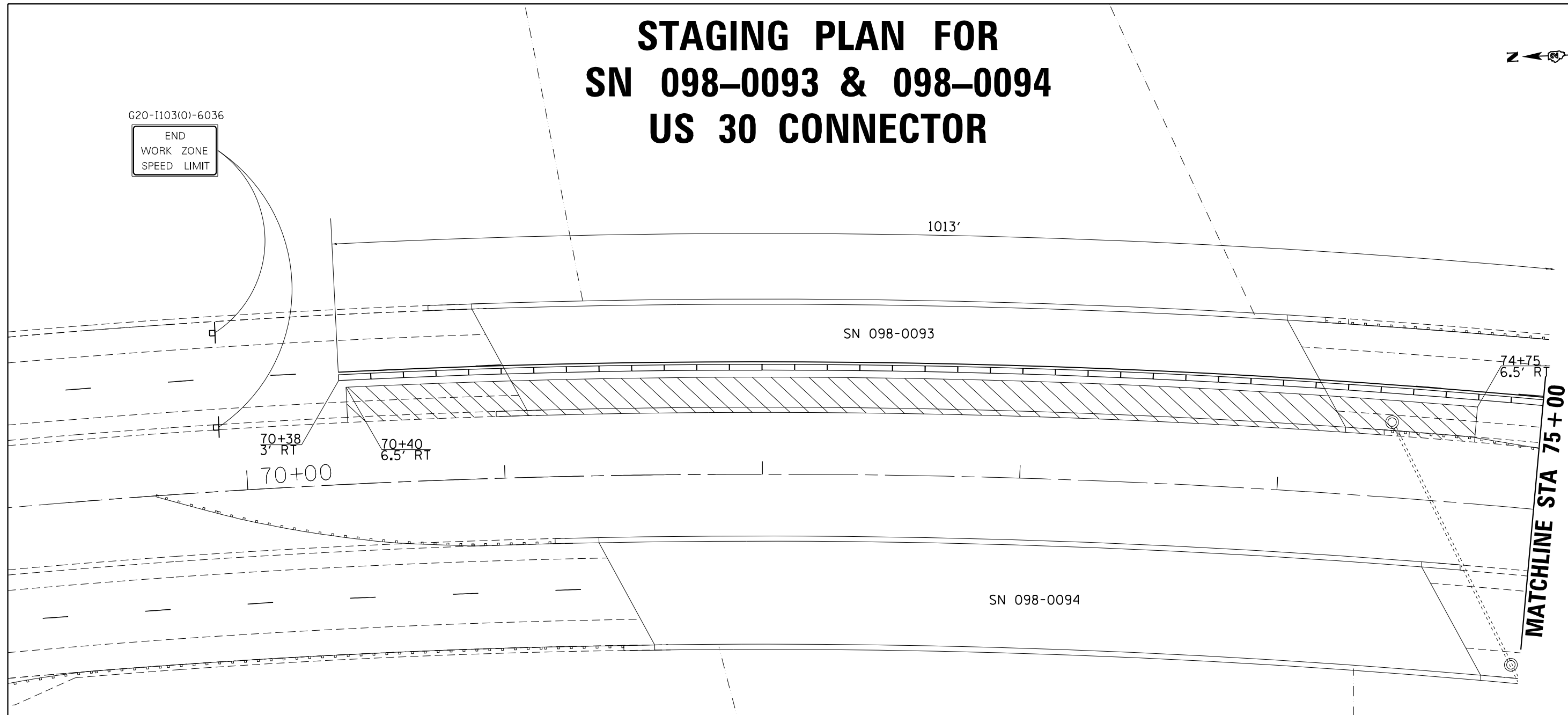
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D:\BR\Draw\Whiteside\64K48 Partial Clearing & Painting SN 098-0092,0093 & 0094\CAD\DRAWN\48-shk-cover.dgn		CHECKED - _____	REVISED - _____		88	(195-3B & 195-3B-1P)	WHITESIDE	21	5		
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K48		ILLINOIS FED. AID PROJECT		
	PLOT DATE = Thu Dec 18 09:28:32 2014	DATE - _____	REVISED - _____								

STAGING PLAN FOR SN 098-0093 & 098-0094 US 30 CONNECTOR



G20-1103(0)-6036

END
WORK ZONE
SPEED LIMIT



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

NOTES

ALL WORK ON STRUCTURES 098-0093 AND 098-0094 SHALL BE COMPLETED FROM THIS SET UP.

REFER TO STANDARDS 701402, 701411 AND 704001 FOR ADDITIONAL TRAFFIC CONTROL AND INFORMATION NOT SHOWN.

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

OFFSETS SHALL BE MEASURED FROM THE EXISTING NORTHBOUND CENTERLINE STRIPE

FILE NAME = D:\BR\Draw\Whiteside\64K48 Partial Clearing & Painting SN 098-0092, 0093 & 0094\CAD\DRAWN\48-shk-cover.dgn	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
		CHECKED - _____	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN FOR SN 098-0093 & 098-0094
US 30 CONNECTOR**

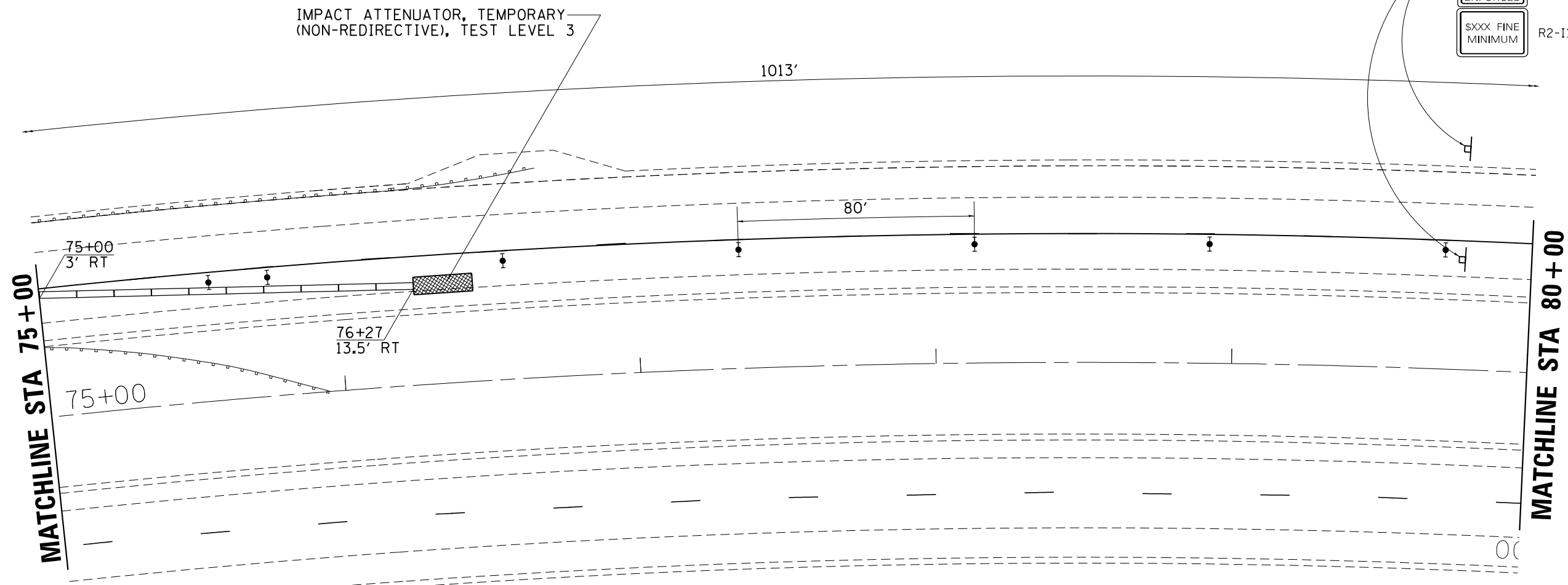
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B & 195-3B-1P)	WHITESIDE	21	6
CONTRACT NO. 64K48				
ILLINOIS FED. AID PROJECT				

STAGING PLAN FOR SN 098-0093 & 098-0094 US 30 CONNECTOR



WORK ZONE	W2-III5(0)-3618
SPEED LIMIT	R2-1-3648
55	
PHOTO ENFORCED	R10-I108p-3618
SXXX FINE MINIMUM	R2-I106p-3618



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ↕ Direction indicator barricade with steady burn monodirectional light
- ⬇ Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- ▬ Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▩ Impact attenuator

NOTES

ALL WORK ON STRUCTURES 098-0093 AND 098-0094 SHALL BE COMPLETED FROM THIS SET UP.

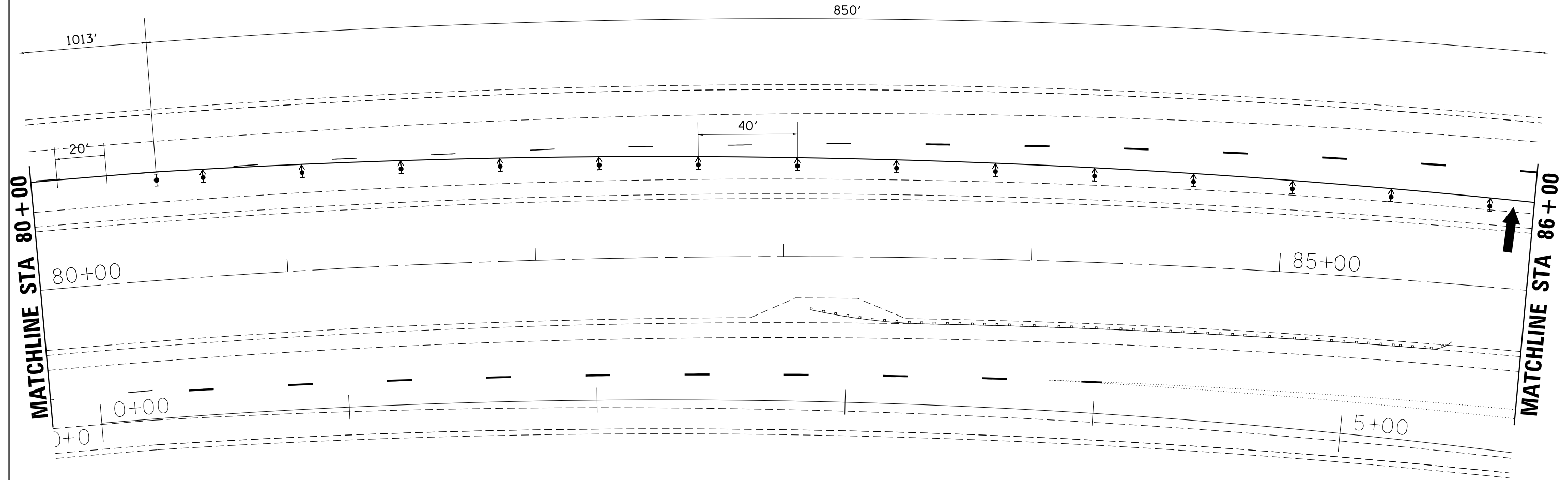
REFER TO STANDARDS 701402, 701411 AND 704001 FOR ADDITIONAL TRAFFIC CONTROL AND INFORMATION NOT SHOWN.

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

OFFSETS SHALL BE MEASURED FROM THE EXISTING NORTHBOUND CENTERLINE STRIPE

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING PLAN FOR SN 098-0093 & 098-0094 US 30 CONNECTOR	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						88	(195-3B & 195-3B-1P)	WHITESIDE	21	7	
						CONTRACT NO. 64K48					
						ILLINOIS FED. AID PROJECT					
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STAGING PLAN FOR SN 098-0093 & 098-0094 US 30 CONNECTOR



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

NOTES

ALL WORK ON STRUCTURES 098-0093 AND 098-0094 SHALL BE COMPLETED FROM THIS SET UP.

REFER TO STANDARDS 701402, 701411 AND 704001 FOR ADDITIONAL TRAFFIC CONTROL AND INFORMATION NOT SHOWN.

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

OFFSETS SHALL BE MEASURED FROM THE EXISTING NORTHBOUND CENTERLINE STRIPE

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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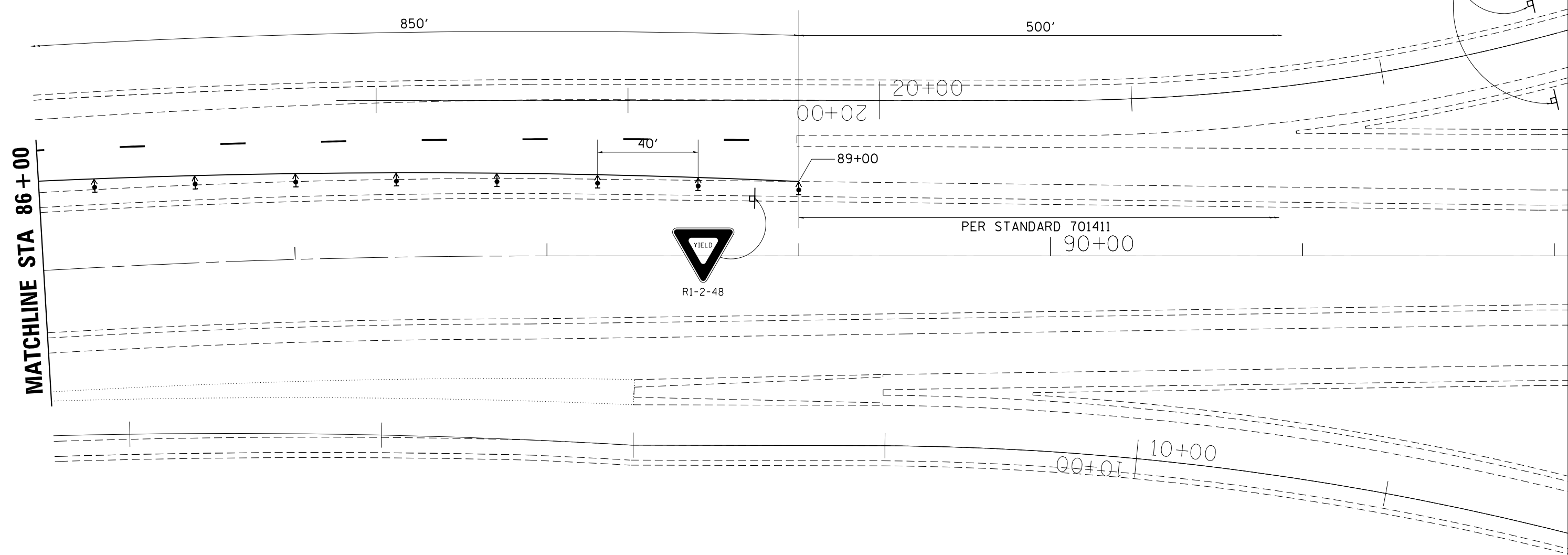
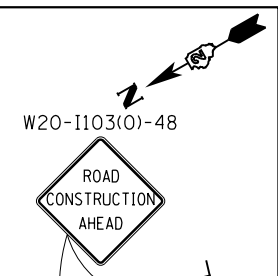
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN FOR SN 098-0093 & 098-0094
US 30 CONNECTOR**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B & 195-3B-1P)	WHITESIDE	21	8
CONTRACT NO. 64K48				
ILLINOIS FED. AID PROJECT				

STAGING PLAN FOR SN 098-0093 & 098-0094 US 30 CONNECTOR



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

NOTES

ALL WORK ON STRUCTURES 098-0093 AND 098-0094 SHALL BE COMPLETED FROM THIS SET UP.

REFER TO STANDARDS 701402, 701411 AND 704001 FOR ADDITIONAL TRAFFIC CONTROL AND INFORMATION NOT SHOWN.

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

OFFSETS SHALL BE MEASURED FROM THE EXISTING NORTHBOUND CENTERLINE STRIPE

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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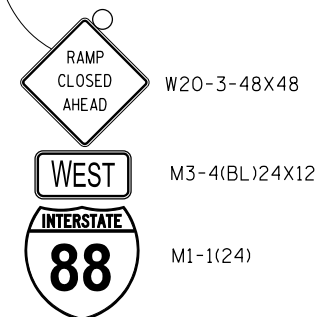
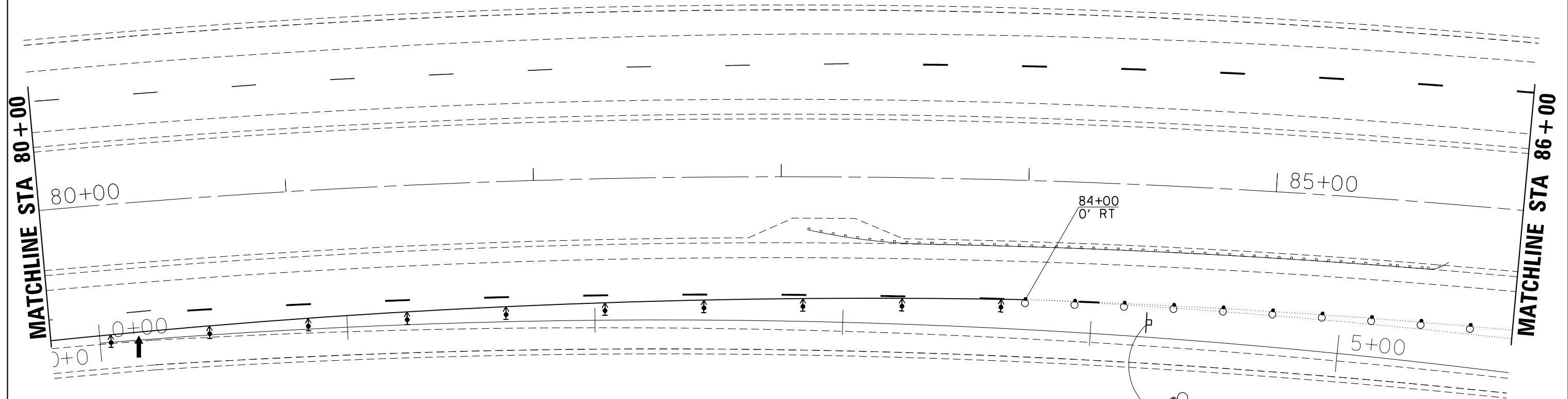
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN FOR SN 098-0093 & 098-0094
US 30 CONNECTOR**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B & 195-3B-1P)	WHITESIDE	21	9
CONTRACT NO. 64K48			ILLINOIS FED. AID PROJECT	

RAMP CLOSURE PLAN FOR SN 098-0092



INSTALL CLOSED SIGN ON
OVERHEAD SIGN

NOTES

OFFSETS SHALL BE MEASURED FROM THE EXISTING SOUTHBOUND CENTERLINE STRIPE

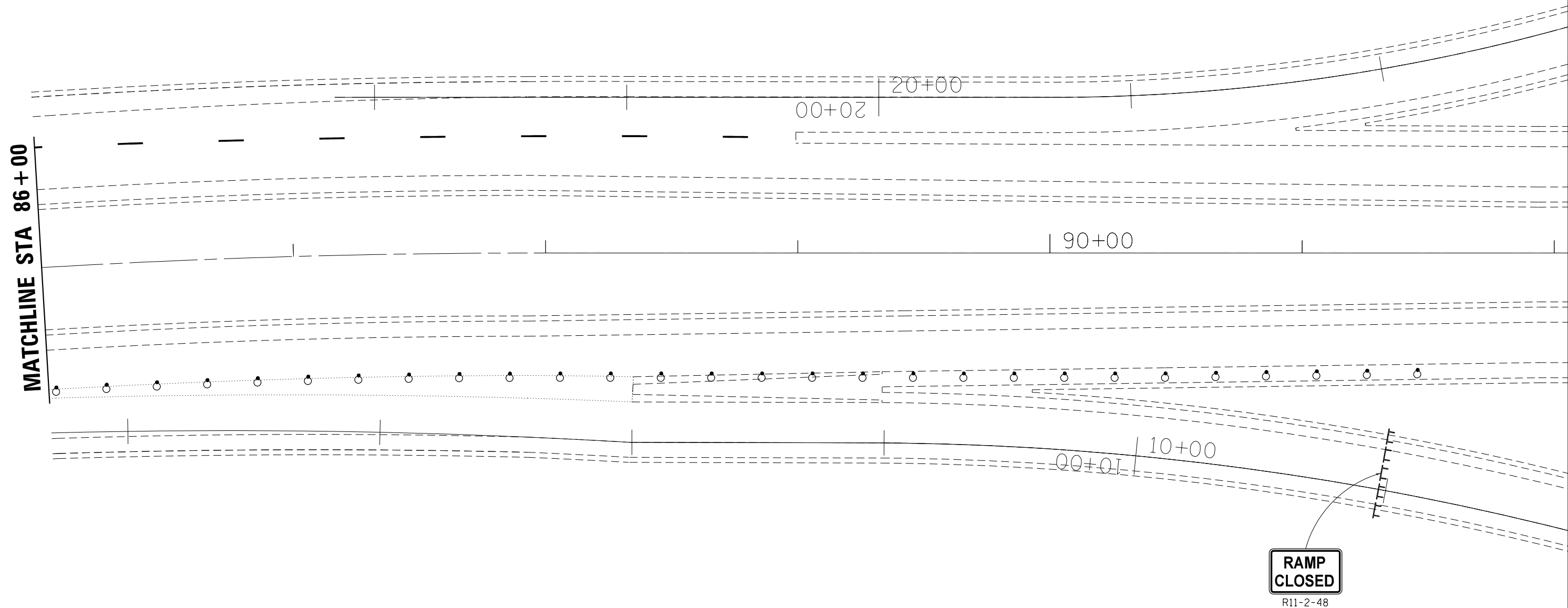
THE SIGNING AND TAPER SHOWN SHALL BE PAID FOR ACCORDING TO THE TRAFFIC CONTROL AND PROTECTION STANDARD 701401.

SYMBOLS

- Arrow board
- Drum with steady burning light
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type III barricade

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAMP CLOSURE PLAN FOR SN 098-0092	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Q:\BR\Draws\Whiteside\64K48 Partial Cleaning & Painting SN 098-0092, 0093 & 0094.CAD	DDRAWK48-shk-cover.dgn	REVISIONS	REVISIONS			88	(195-3B & 195-3B-1P)	WHITESIDE	21	11
Default	PLOT DATE = Thu Dec 18 09:29:20 2014	CHECKED - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K48 ILLINOIS FED. AID PROJECT		

RAMP CLOSURE PLAN FOR SN 098-0092



NOTES

OFFSETS SHALL BE MEASURED FROM THE EXISTING SOUTHBOUND CENTERLINE STRIPE

THE SIGNING AND TAPER SHOWN SHALL BE PAID FOR ACCORDING TO THE TRAFFIC CONTROL AND PROTECTION STANDARD 701401.

SYMBOLS

- ↑ Arrow board
- Drum with steady burning light
- ⊥ Sign
- ⚡ Direction indicator barricade with steady burn monodirectional light
- ⌈ Type III barricade

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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	PLOT DATE = Thu Dec 18 09:29:27 2014	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAMP CLOSURE PLAN
FOR SN 098-0092**

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

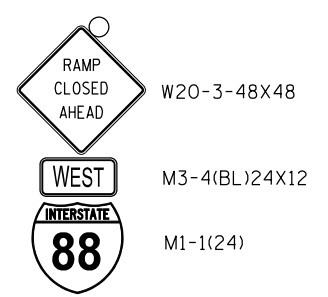
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B & 195-3B-1P)	WHITESIDE	21	12
CONTRACT NO. 64K48			ILLINOIS FED. AID PROJECT	

DETOUR ROUTE FOR SN 098-0092

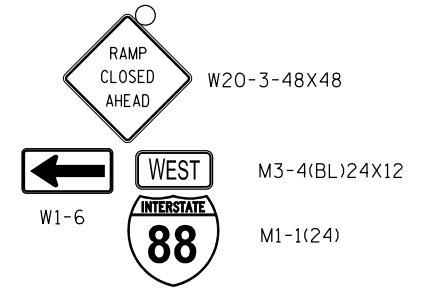


SN 098-0092
RAMP CLOSURE

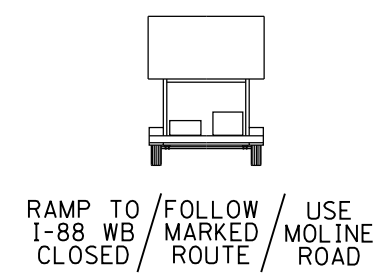
Ⓐ STA 46+00



Ⓑ



Ⓒ PORTABLE CHANGEABLE MESSAGE SIGN



SYMBOLS

- DETOUR ROUTE
- RAMP CLOSURE

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -
D:\BR\Draw\Whiteside\64K48 Partial Clearing & Painting SN 098-0092, 0093 & 0094\CD\DRAWK48-shk-cover.dgn			
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Thu Dec 18 09:34:24 2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

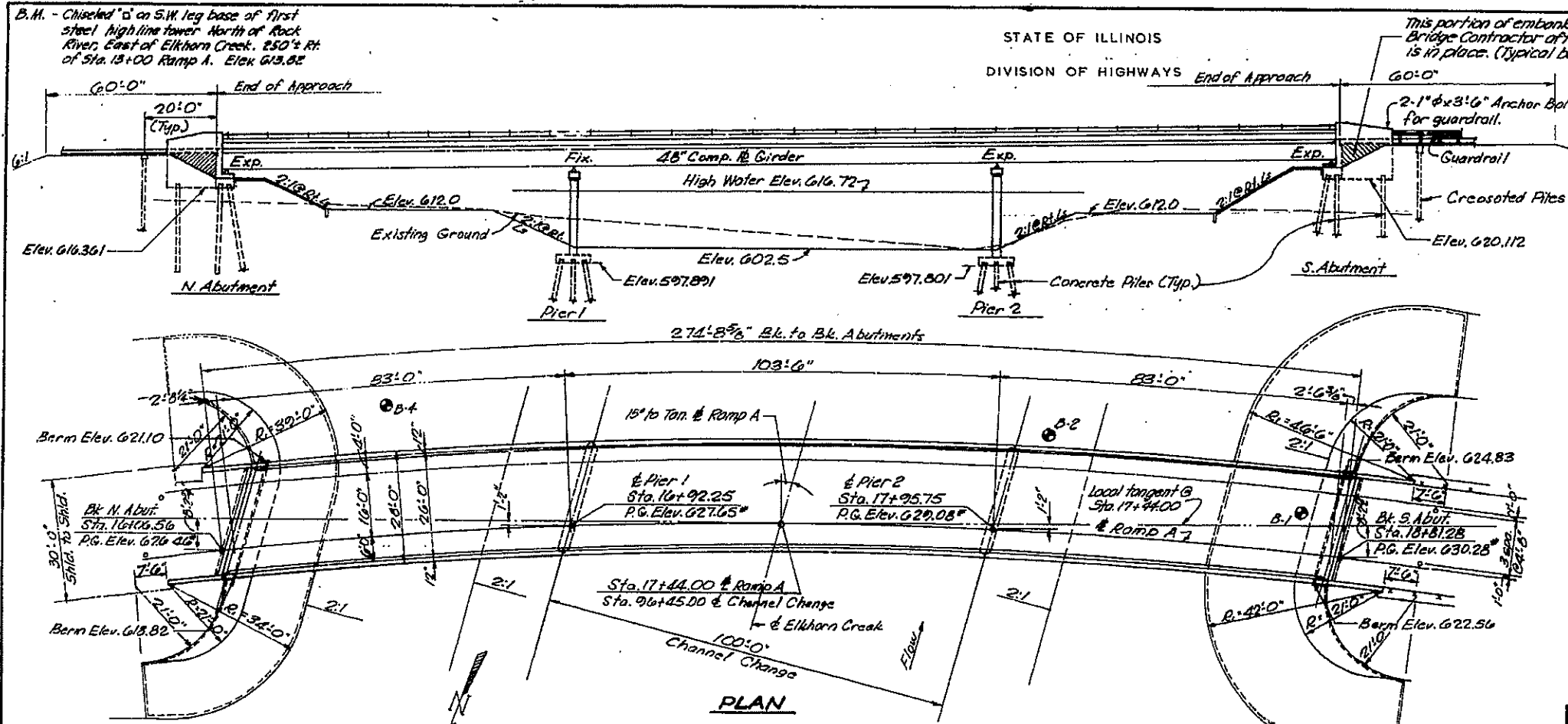
DETOUR ROUTE
FOR SN 098-0092

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B & 195-3B-1P)	WHITESIDE	21	13
CONTRACT NO. 64K48			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

098-0092



ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 403	195-3	WHITESIDE	21	14
FED. ROAD DIST. NO. 7 ILLINOIS F.A. PROJ.				

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 Fasteners shall be high strength bolts, 3/8" φ, open holes 5/8" φ, unless otherwise noted.
 Calculated weight of Structural Steel = 236,300 lbs.
 The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.
 Field welding of construction accessories will not be permitted to the bottom flange of 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 bolts shall be set before bolting cross frames over supports.
 Slope wall shall be reinforced with welded wire fabric, 6"x6" mesh, weighing 58 lbs. per sq. ft.
 The Contractor shall drive one concrete test pile at each abutment and pier in a permanent location as directed by the Engineer before ordering the remainder of piles.
 Concrete piles at abutments shall be driven in holes prepared through the embankment in accordance with Article 513.09(c) of the Standard Specifications.
 The concrete rail section above the mandatory construction joint of the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to requirements of Handrail Concrete.
 Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of abutments.

BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Structure Excavation	Cu. Yds.	---	140	140
Class X Concrete	Cu. Yds.	260.3	277.6	477.9
Structural Steel	Lump Sum	1	---	1
Reinforcement Bars	Lbs.	53354	18883	77237
Concrete Piles	Lin. Ft.	---	1360	1360
Test Piles, Concrete	Eq.	---	4	4
Creosoted Timber Piles (Railroad)	Lin. Ft.	---	190	190
Slope Wall 6"	Sq. Yds.	---	778	778
Bit Conc. Surf. Course, Class I	Tons	02	---	02
Coal Tar Inter. Prot. Coat	Sq. Yds.	738	---	738
Aluminum Railings	Lin. Ft.	543	---	543
Preformed Jt. Sealer	Lin. Ft.	30	---	30
Neoprene Exp. Joint (8x)	Lin. Ft.	28	---	28
Stud Spacer Connectors	Eq.	1944	---	1944
Protective Coat	Sq. Yds.	230	---	230
Name Plate	Eq.	1	---	1

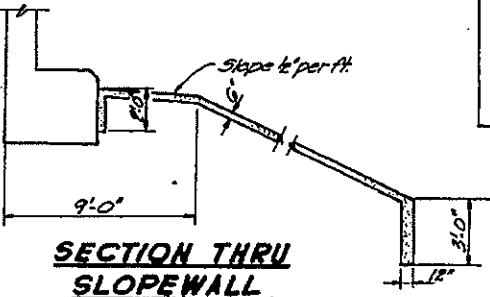
APPROACH PILE DATA

Type: Creosoted Piles
 No. Reg'd.: 8
 Length Reg'd.: 22' N. Appr.
 27' S. Appr.
 See Special Provisions

STATION 17+44.00
 BUILT 1972 BY
 STATE OF ILLINOIS
 F.A. RTE. 403 - SEC. 195-3B-1
 LOADING HS 20

NAME PLATE
 Sec Std. 2113

SECTION THRU SLOPEWALL



DESIGN STRESSES

$f_c = 1200$ psi Deck Slab
 $f_c = 1400$ psi Curb, Parapet, & Substructure
 $f_c = 75$ psi Footings
 $n = 10$
 $f_s = 20,000$ psi Reinf.
 $f_s = 20,000$ psi Struct.
 Allowable δ Deflection $L/1200$
 Design Specifications - 1969 AASHTO
 Add 25% per sq. ft. for future wearing surface

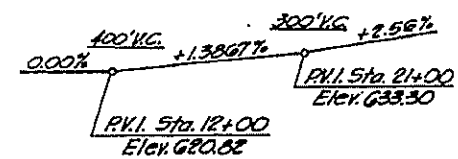
CURVE DATA

P.I. 18+72.32
 $\Delta = 80^\circ 40' 48''$
 $D = 5' 00' 00''$
 $T = 973.19'$
 $E = 357.48'$
 $R = 1145.92'$
 $L = 1613.60'$
 $S = 0.081/1$

LOADING - HS 20-44

WATERWAY INFORMATION

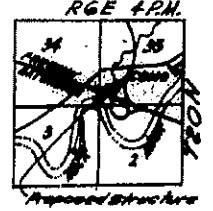
Drainage Area: 252 Sq. Miles
 $Q_{50} = 10,052$ c.f.s.
 Total Reg'd. Opening (50 year Flood): 2100 Sq. Ft.
 Created Head: 0.32'
 Proposed Opening: 2120 Sq. Ft.



PROFILE - RAMP A

* Elevations are to top of Class I

DESIGNED H.M.W.	EXAMINED	19
CHECKED C.D.C.	PASSED	
DRAWN C.D.C. & L.R.	APPROVED	
CHECKED S.M.C.		



LOCATION SKETCH

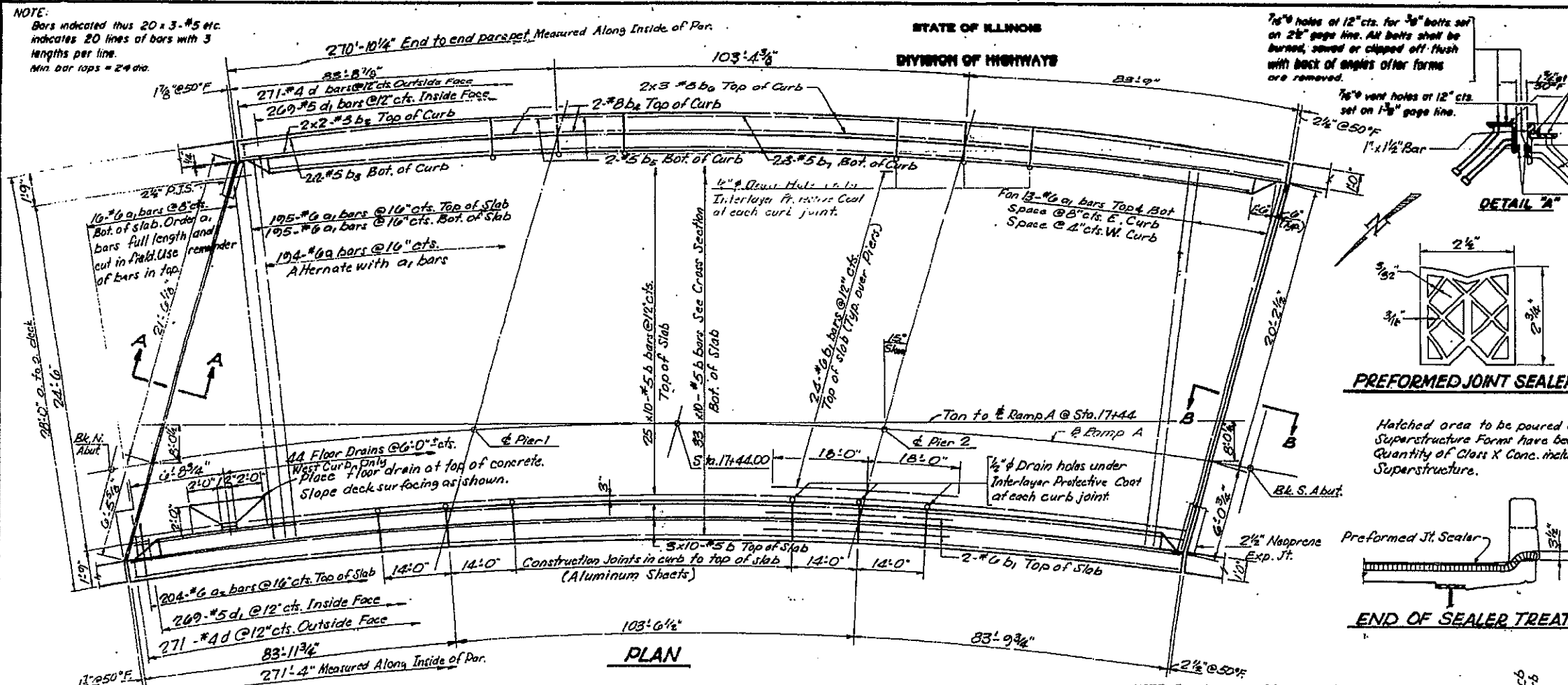
APPROVED
 FIRM STRUCTURAL AGENCY ONLY
 Mackie Engineering Co.
 Registered Professional Engineer

GENERAL PLAN & ELEVATION

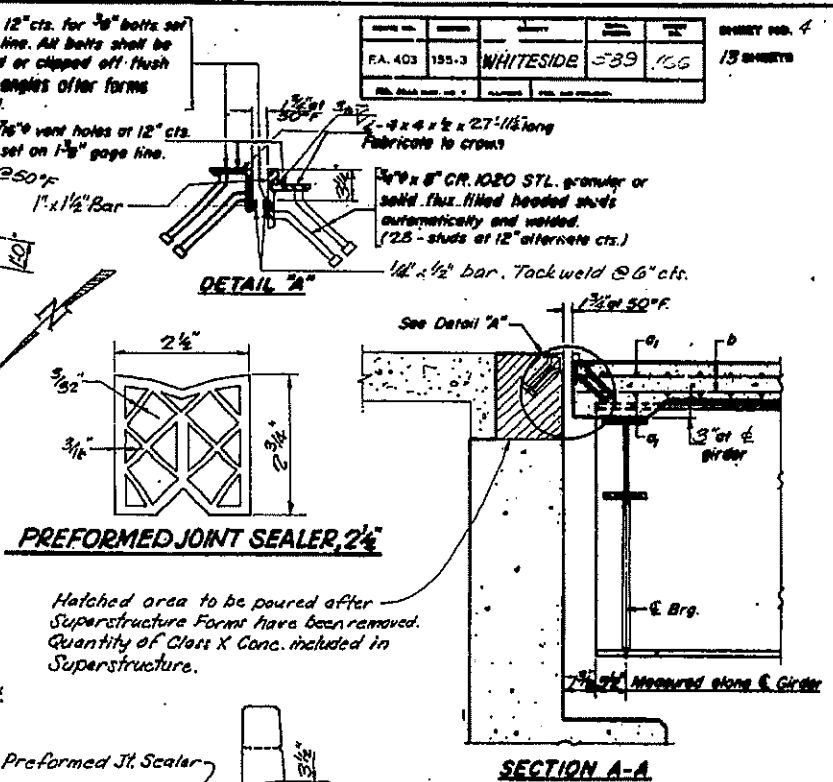
RAMP A OVER ELKHORN CREEK
 F.A. RTE. 403 - SEC. 195-3B-1
 WHITESIDE COUNTY
 STATION 17+44.00

FOR INFORMATION ONLY

NOTE:
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 Min. bar laps = 2'-0"

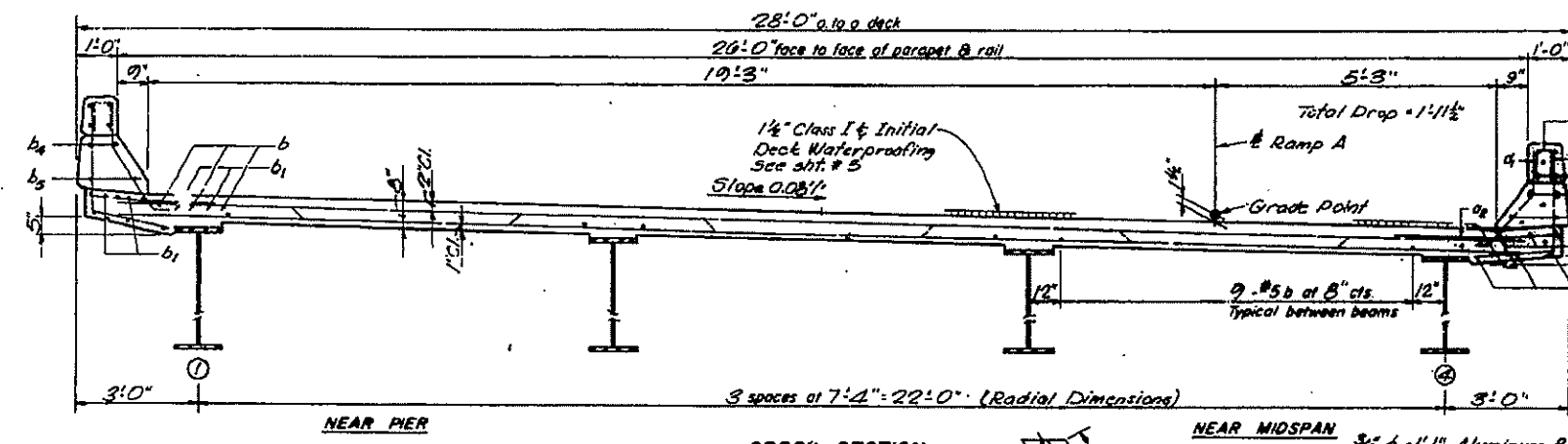


PROJECT NO.	WHITESIDE	589	106
DATE			
DRAWN BY			
CHECKED BY			
DATE			



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	194	#6	27'-0"	
a	432	#6	20'-0"	
a	408	#6	4'-0"	
b	640	#5	26'-3"	
b	56	#5	30'-0"	
b	16	#5	36'-1"	
b	16	#5	35'-5"	
b	16	#5	19'-9"	
b	16	#5	19'-9"	
b	12	#5	20'-5"	
b	12	#5	25'-1"	
c	542	#4	4'-7"	
c	555	#4	3'-5"	
Reinforcement Bars				Lbs. 56771
Class X Concrete				Cu. Yds. 205.0

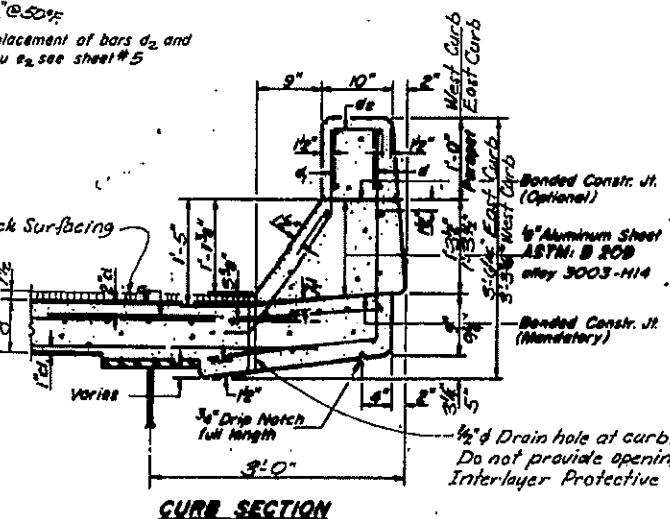
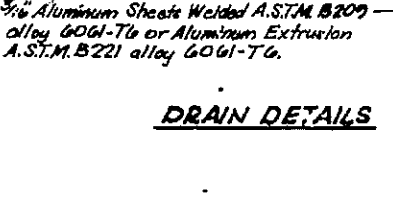


DESIGNED	C.D.C.
CHECKED	S.M.K.
DRAWN	C.D.C.
CHECKED	S.M.K.

19
 12-3-69

S-586-0 4-22-68, 12-3-69

NEAR MIDSPAN
 3/4" x 1 1/2" Aluminum Bar A.S.T.M. B211 alloy 6061-T6
 3/8" Aluminum Sheats Welded A.S.T.M. B209 alloy 6061-T6 or Aluminum Extrusion A.S.T.M. B221 alloy 6061-T6.

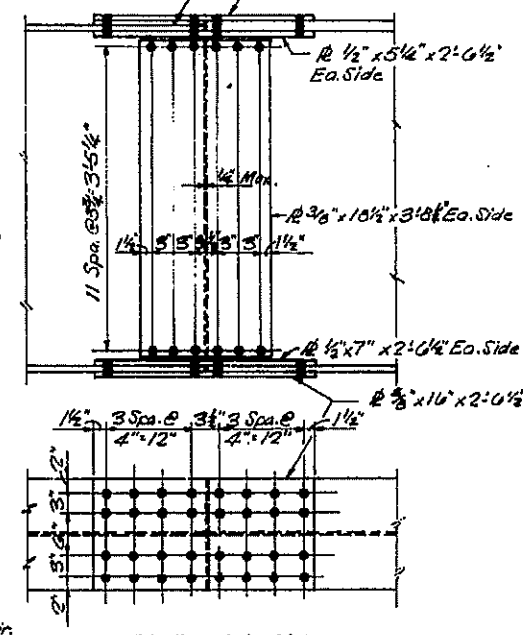
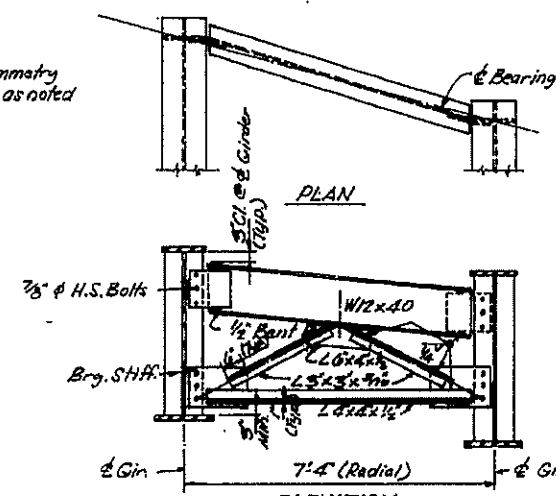
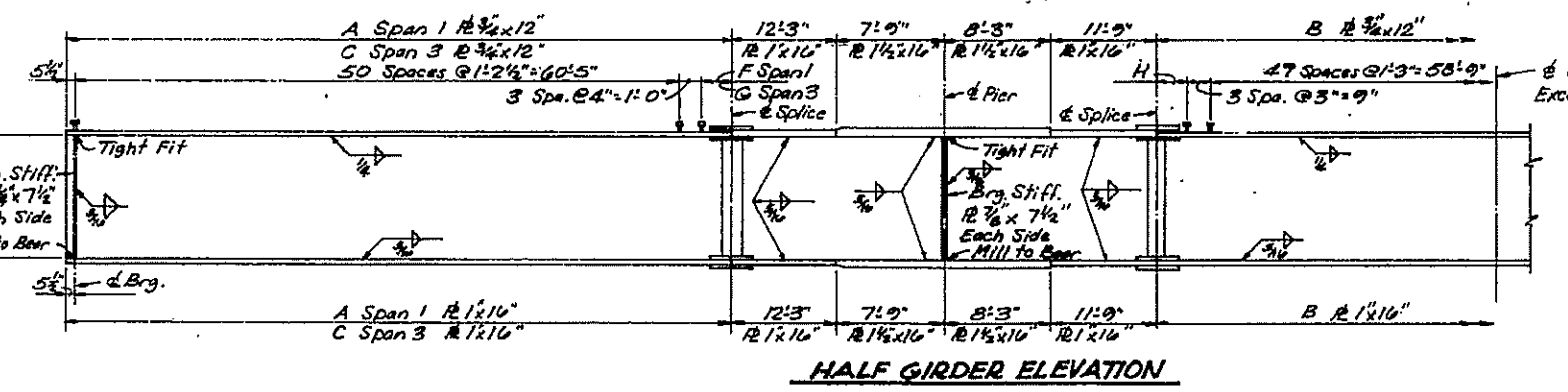
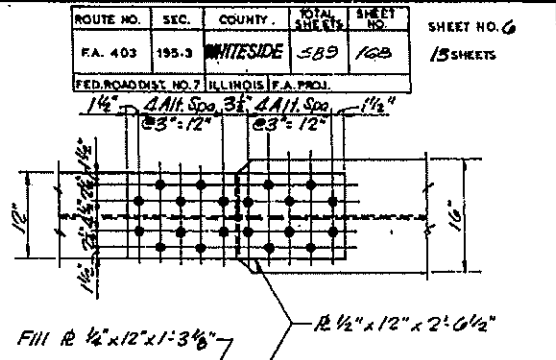
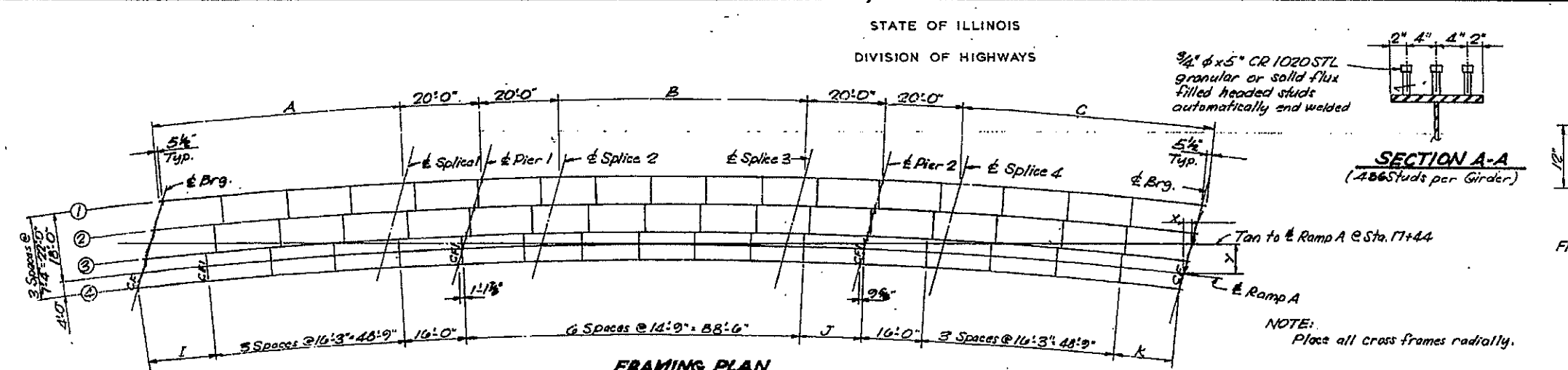


For Section B-B see sheet #5. Parapet Reinforcement and Class X Concrete are billed on sheet #5.

SUPERSTRUCTURE
 F.A. RTE. 403 - SEC. 195-38-1
 WHITESIDE COUNTY
 STATION 17+44.00

FOR INFORMATION ONLY

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 403	195-3	WHITESIDE	589	168
FED. ROAD DIST. NO. 7 ILLINOIS I.P.A. PROJ.				
1 1/2" 4 1/2" Sp. @ 3' 4 1/2" Sp. @ 3' 1 1/2" @ 3'-12" @ 3'-12" @ 3'-12"				



Dim.	Gir. 1	Gir. 2	Gir. 3	Gir. 4
A	63'-3 1/2"	63'-4 3/4"	63'-5 1/2"	63'-6"
B	63'-4 3/4"	63'-5 1/4"	63'-5 3/4"	63'-6 1/4"
C	63'-5"	63'-5 1/2"	63'-5 3/4"	63'-5 3/4"
F	1'-5"	1'-5 1/2"	1'-6"	1'-7 1/4"
G	1'-6 1/2"	1'-6 3/4"	1'-6 3/4"	1'-7 1/4"
H	1'-6 1/2"	1'-7 1/4"	1'-7 1/4"	1'-7 1/4"
I	10'-2 1/2"	10'-3 1/2"	10'-4 1/2"	10'-5 1/2"
J	14'-6 1/4"	14'-6 3/4"	14'-7 1/4"	14'-8 1/4"
K	17'-4 1/4"	17'-5 1/4"	17'-5 1/4"	17'-5 1/4"

	4 Span 1	Pier	5 Span 2
I_x (in ⁴)	18939	34020	18939
I_y (in ⁴)	883	1334	883
DL (k/ft)	0.964	0.964	0.964
Mpl (k)	418	217	349
$I_{c(100)k}$	35005	—	35005
Sc (in ³)	1115	—	1115
Spl (k/ft)	0.480	0.480	0.480
Msol (k)	255	406	237
$I_{c(100)k}$	252	3.65	255
$I_{c(100)k}$	49420	—	49420
Sc (in ³)	1229	—	1229
M4 (k)	688	580	728
Mcomp (k)	166	123	159
Mtotal (k)	857	601	887
$I_{c(100)k}$	833	5.25	873
$I_{c(100)k}$	16.46	17.86	16.02
VR	527	—	527

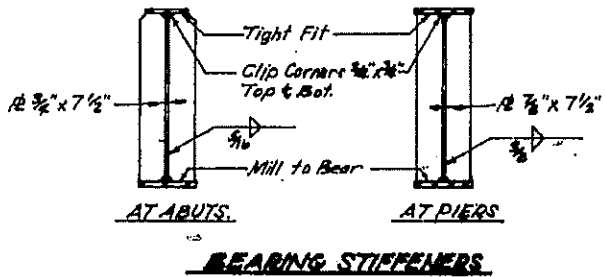
	Abut.	Pier
RdL (k)	48.1	137.3
RdR (k)	46.5	67.5
Rmp (k)	11.2	13.5
Rtotal (k)	105.8	240.3

	Gir. 1	Gir. 2	Gir. 3	Gir. 4
Abut. N.Abt.	627.012	628.309	625.759	625.132
Splice 1	627.806	627.240	626.020	626.005
Pier 1	628.143	627.525	626.906	626.287
Splice 2	628.412	627.796	627.179	626.562
Splice 3	629.277	628.667	628.050	627.440
Pier 2	629.554	628.940	628.337	627.728
Splice 4	629.823	629.217	628.610	627.990
Abut. S.Abt.	630.687	630.086	629.485	628.883

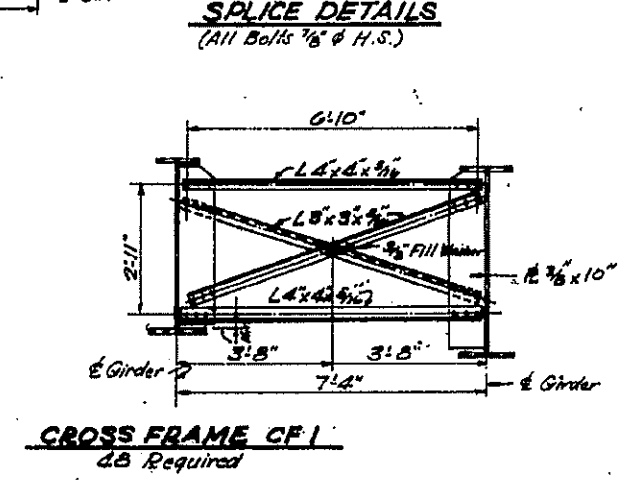
I_x and S_x are the moment of inertia and section modulus of the steel section.
 $I_{c(100)}$ and $S_{c(100)}$ are the moment of inertia and section modulus of the composite section used in computing I_x .
 VR is the maximum \pm impact shear range in the span.

DESIGNED	J.D.	EXAMINED	19
CHECKED	S.MCK.	PASSED	L
DRAWN	C.D.C.	APPROVED	
CHECKED	S.MCK.		

Girder 1	Girder 2	Girder 3	Girder 4	Abutment
1163'-11"	1156'-7"	1149'-3"	1141'-11"	1135'-11"



11'-11"	2'-11"	2'-5"	7'-8"	8'-2"	1'-2"	3'-6"	7'-6"	1'-8"	7'-6"	1'-2"	2'-5"	7'-8"	11'-11"
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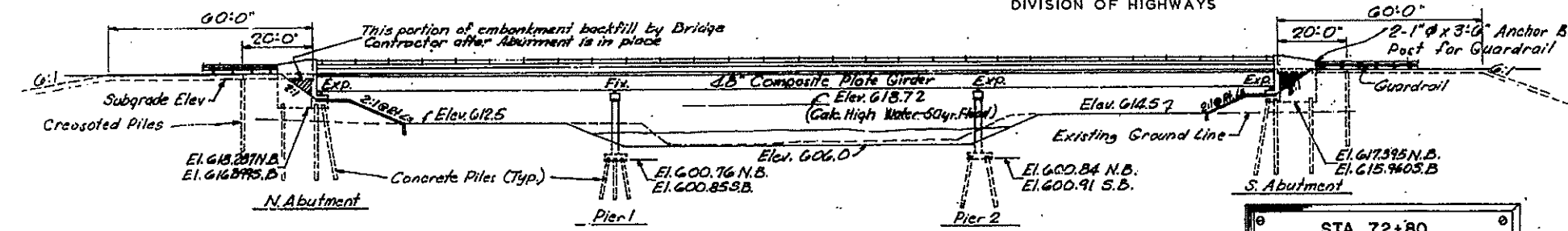
STRUCTURAL STEEL
 F.A. RTE. 403-SEC. 195-3B-1
 WHITESIDE COUNTY
 STATION 17+44.00

FOR INFORMATION ONLY

098-0093 & 098-0094

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A. 403	195-3	Whiteside	589	176	20 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS F.A. PROJ.					

STATE OF ILLINOIS
DIVISION OF HIGHWAYS



ELEVATION

APPROACH FILE DATA
Type: Creosoted
No. Required: 28
Length Required: 25'
See Special Provisions

NAME PLATE
See Std. 2113

STA. 72+80
BUILT 1972 BY
STATE OF ILLINOIS
F.A. RTE. 40 SEC. 195-3B
LOADING HS20

NAME PLATE
See Std. 2113

GENERAL NOTES

All reinforcement shall be lapped E4 diameters unless otherwise shown. Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ \"/>

Field welding of construction accessories will not be permitted to the bottom 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.

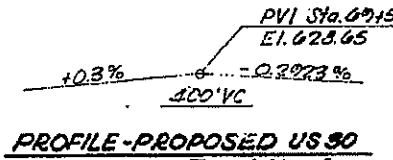
Anchor bolts shall be set before bolting cross frames over supports. Slope wall shall be reinforced with welded wire fabric G \times G mesh weighing 55 $\frac{1}{2}$ \"/>

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive one concrete test pile in a permanent location at each Abutment and each Pier as directed by the Engineer before ordering the remainder of the piles.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the Abutments. The concrete rail section above the mandatory construction 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 Cool Tar Interlayer Protective Coat is applied.

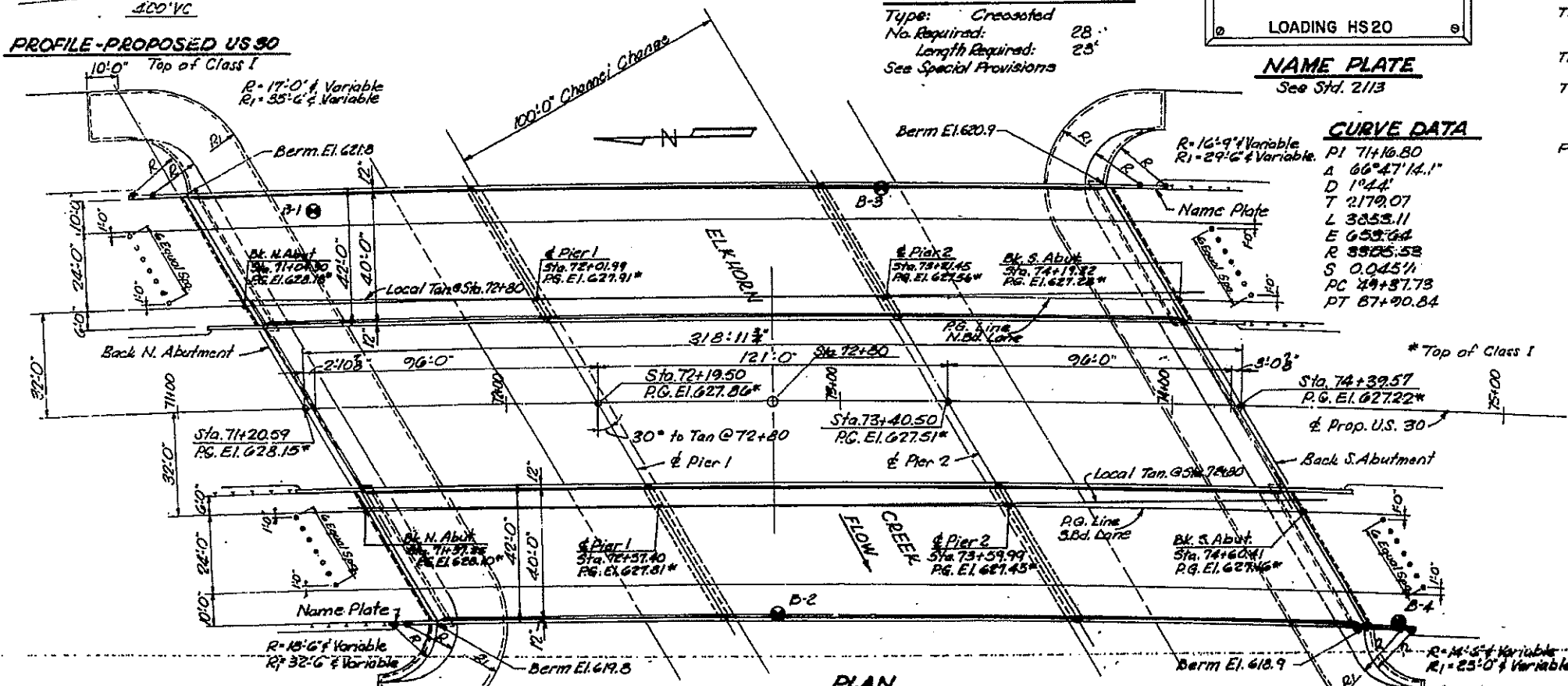


PROFILE-PROPOSED US 30

CURVE DATA

PI 71+16.80
A 66 \times 47'14.1\"/>

D 194.4'
T 2179.07'
L 3853.11'
E 653.64'
R 3525.52'
S 0.0451'
PC 49+37.73'
PT 67+90.84'



PLAN

ITEM	UNIT	SUPER.	SUBSTR.	TOTAL
Structure Excavation	Cu. Yds.		424	424
Class X Concrete	Cu. Yds.	820.1	644.3	1464.4
Structural Steel	Lbs.		1	1
Reinforcement Bars	Lbs.	192443	46156	238600
Concrete Piles	Lin. Ft.		2911	2911
Test Piles, Concrete	Eq.		0	0
Slope Wall, &	Sq. Yds.		1154	1154
5 1/2\"/>				
Cool Tar Interlayer Coat	Sq. Yds.	2694		2694
Aluminum Scaffolding	Lin. Ft.	1360		1360
Precasted Joint Scales	Lin. Ft.	94		94
Non-slip Epoxy Joint (E)	Lin. Ft.	98		98
Steel Slip Connectors	Eq.	6894		6894
Name Plates	Eq.		2	2
Protective Coat	Sq. Yds.	529		529
Creosoted Piles (30' to 38')	Lin. Ft.			644

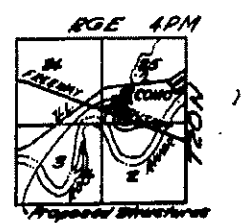
DESIGN STRESSES

f_c = 1200 psi Deck Slab
 f_c = 1400 psi Curbs, Dampers, Approach Slab & Substructure
 f_c = 75 psi Footings
 n = 10
 f_s = 20,000 psi Reinf.
 f_s = 20,000 psi Struct.
Allowable & Deflection = $\frac{1}{1600}$
Design Specifications - AASHTO (as applicable)
Allow 25 $\frac{1}{2}$ \"/>

LOADING - HS 20 - 44

WATERWAY INFORMATION

Drainage Area = 258 Sq. Mi.
Q₁₀₀ = 10000 cfs
Required Opening (50 year flood) = 2100 Sq. Ft.
Proposed Opening = 2100 Sq. Ft.
Crested Head = 0.32 ft



LOCATION SKETCH

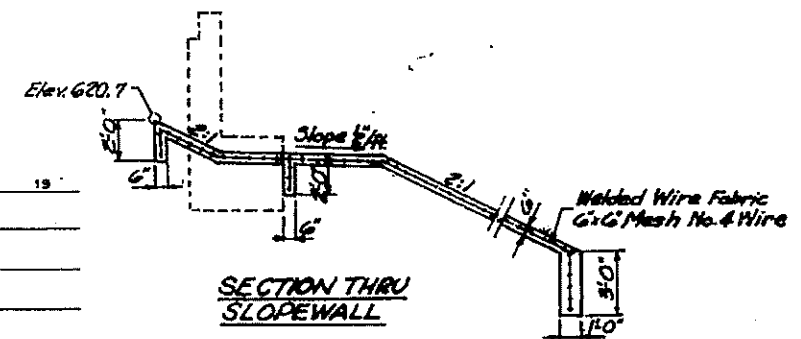


APPROVED
FOR STRUCTURAL ADMINISTRATION
Mackie Eng. Co.
Engineer of Professional Services

GENERAL PLAN & ELEVATION
PROPOSED U.S. 30 OVER ELKHORN CREEK
F.A. RTE. 403 - SEC. 195-3B
WHITESIDE COUNTY
STATION 72+80

PLANS PREPARED BY MACKIE ENG. CO.

DESIGNED C.D.C.	EXAMINED
CHECKED H.M.W.	PASSED
DRAWN W.H.G.	APPROVED
CHECKED M.G.	



SECTION THRU SLOPE WALL

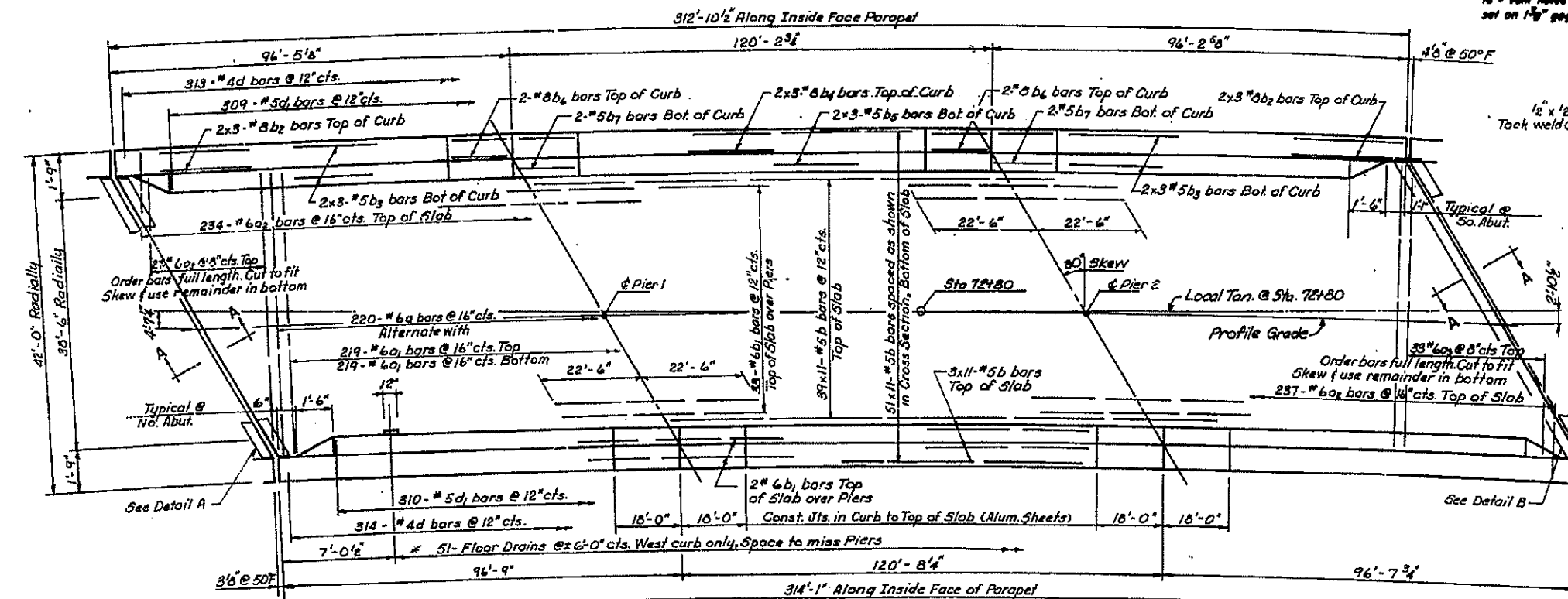
FOR INFORMATION ONLY

NOTE:
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 24 dia.

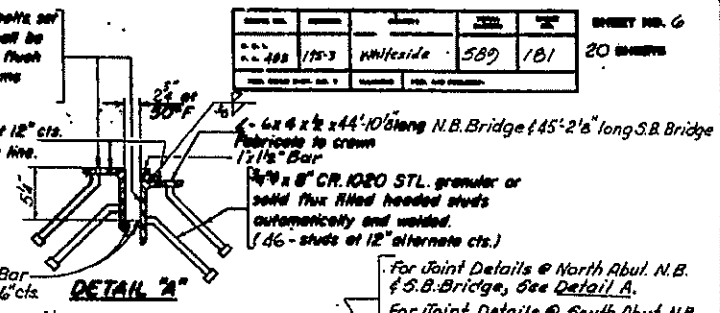
STATE OF ILLINOIS
DIVISION OF HIGHWAYS

7/8" holes at 12" cts. for 3/8" bolts set on 2" page line. All bolts shall be turned, sized or clipped off flush with back of angles after forms are removed.

NO.	DATE	BY	CHKD.	DRY
488	1/5-3	Whiteside	589	181
20 SHEETS				

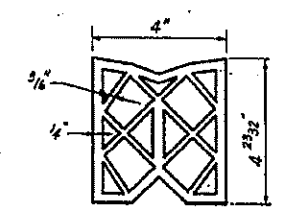


PLAN

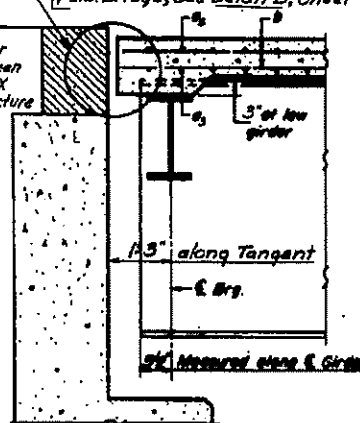


DETAIL A

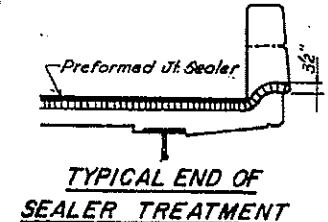
Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.



PREFORMED JOINT SEALER

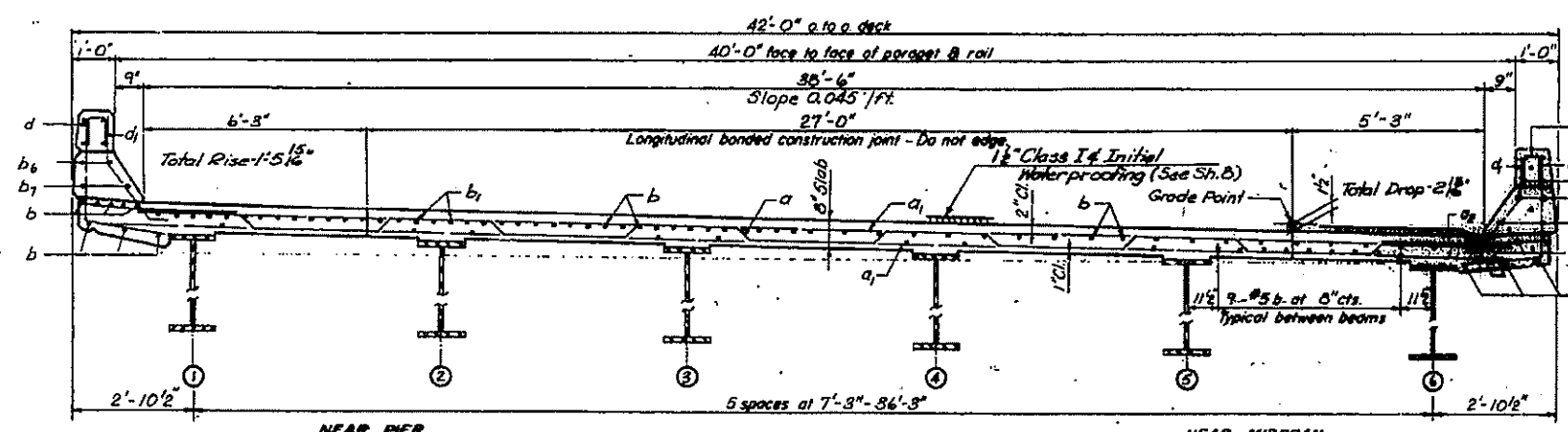


SECTION A-A

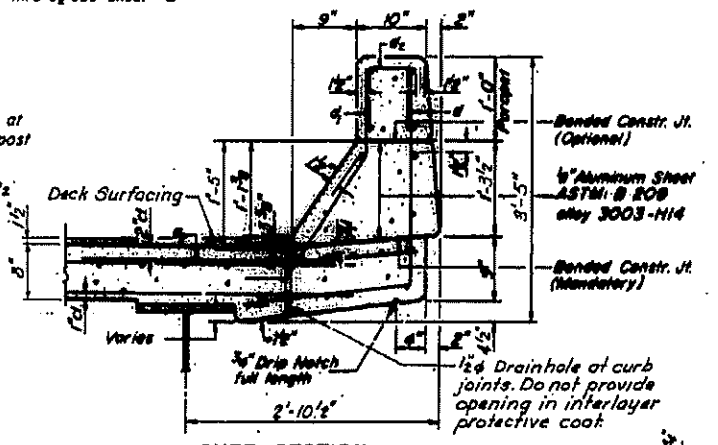


TYPICAL END OF SEALER TREATMENT

NOTE: For placement of bars d₂ and a thru e₂ see sheet # 8



CROSS SECTION Looking South



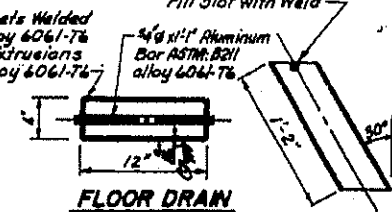
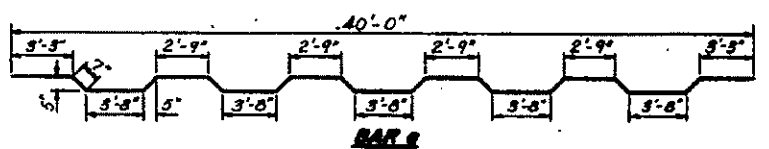
CURB SECTION

Cost of Aluminum Sheets shall be incidental to Class X Concrete.

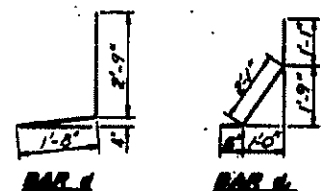
Bar	Qty	Length	Weight
a	220	#6	41-8
b	338	#6	40-0
c	471	#6	4-6
d	60	#6	42-8
e	1084	#6	21-0
f	84	#6	25-0
g	24	#6	27-2
h	24	#6	27-0
i	12	#6	29-4
j	12	#6	28-0
k	16	#8	17-8
l	627	#6	4-5
m	619	#6	3-8
Reinforcement Bars	Lbs.	99940	
Class X Concrete	Cu. Yds.	347.2	

Parapet Reinforcement and Class X Concrete are billed on sheet # 8

DESIGNED: WLC	EXAMINED: _____
CHECKED: W.H.C.	PASSED: _____
DRAWN: E.J.W.	APPROVED: _____
CHECKED: WLC	



FLOOR DRAIN



BAR 1

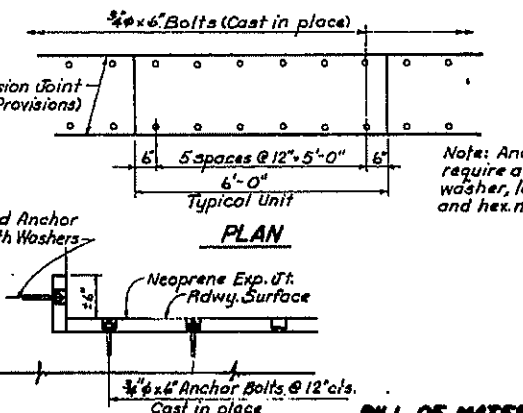
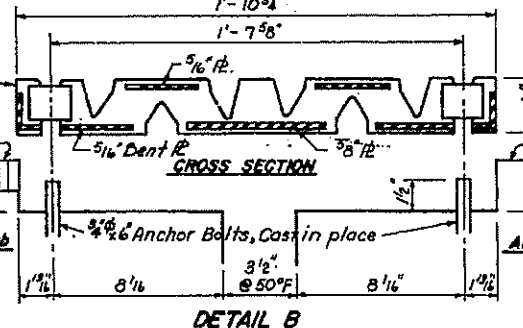
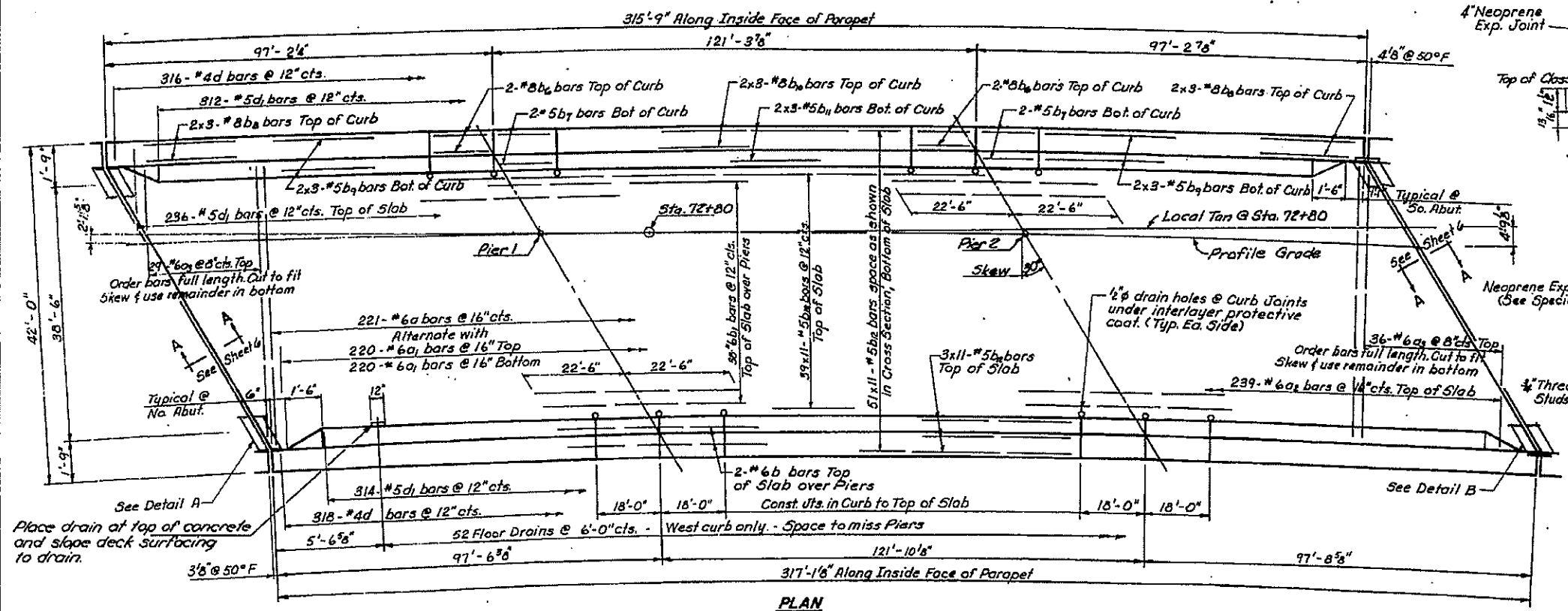
BAR 2

SUPERSTRUCTURE-NR BRIDGE
F.A. RTE. 403-SEC. 195-3B
WHITESIDE COUNTY
STATION 72+80

FOR INFORMATION ONLY

NOTE:
 Bars indicated thus 20x3-#5 etc.
 indicates 20 lines of bars with 3
 lengths per line.
 Min. bar laps = 24 dia.

DATE	BY	CHKD	APPD	REVISION
195-3	W.H.C.	580	182	20

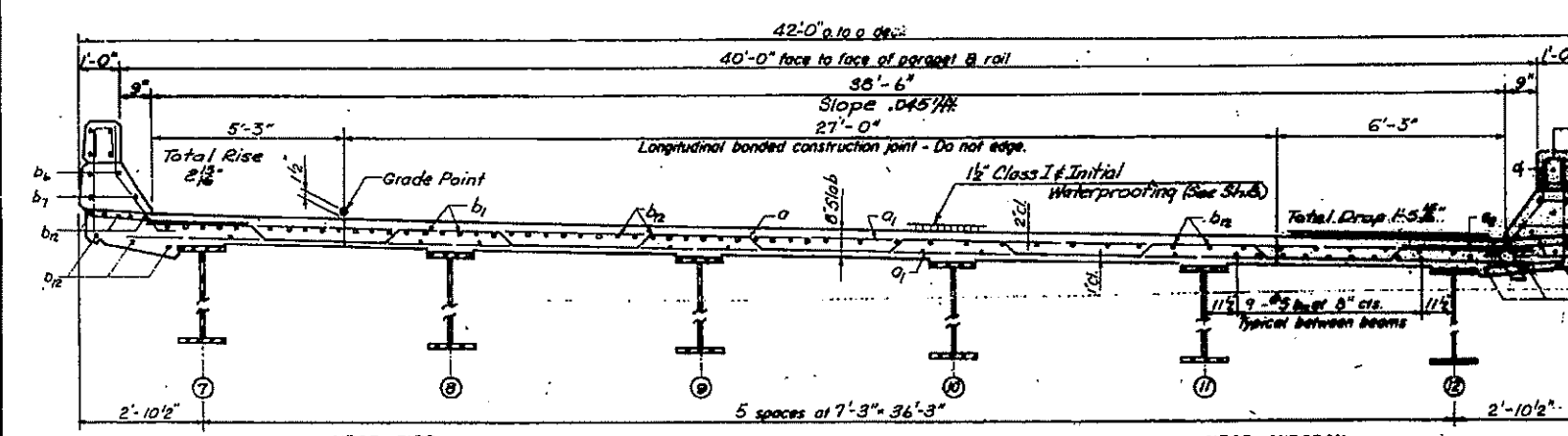


Place drain at top of concrete and slope deck surfacing to drain.

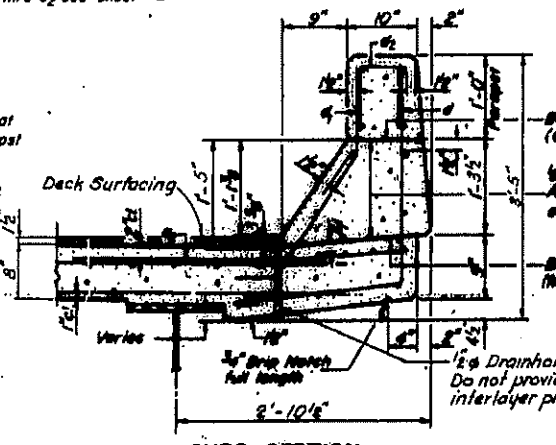
ABUTMENT INSTALLATION

BILL OF MATERIAL

Bar	Qty	Size	Length	Notes
b1	221	#6	41'-0"	
b2	440	#6	40'-0"	
b3	475	#6	42'-0"	
b4	65	#6	42'-6"	
b5	1056	#6	29'-11"	
b6	84	#6	43'-0"	
b7	16	#6	17'-5"	
b8	16	#6	17'-5"	
b9	24	#6	27'-9"	
b10	24	#6	27'-9"	
b11	12	#8	29'-10"	
b12	12	#8	29'-10"	
c	634	#4	2'-3"	
d	626	#4	3'-0"	
Reinforcement Bars		Lbs	94831	
Class X Concrete		Cu Yds	550.5	

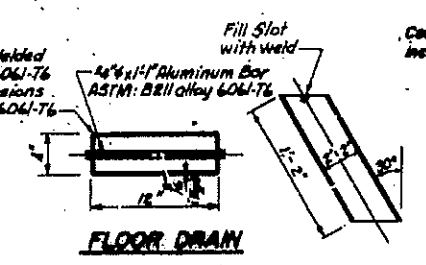
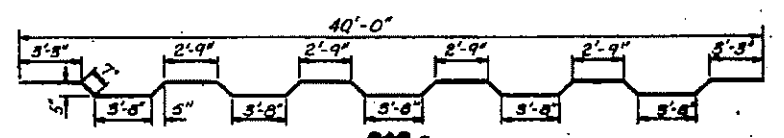


NOTE: For placement of bars b2 and a thru e2 see sheet #B



DESIGNED	W.H.C.
CHECKED	W.H.C.
DRAWN	E.Z.W.
CHECKED	W.H.C.

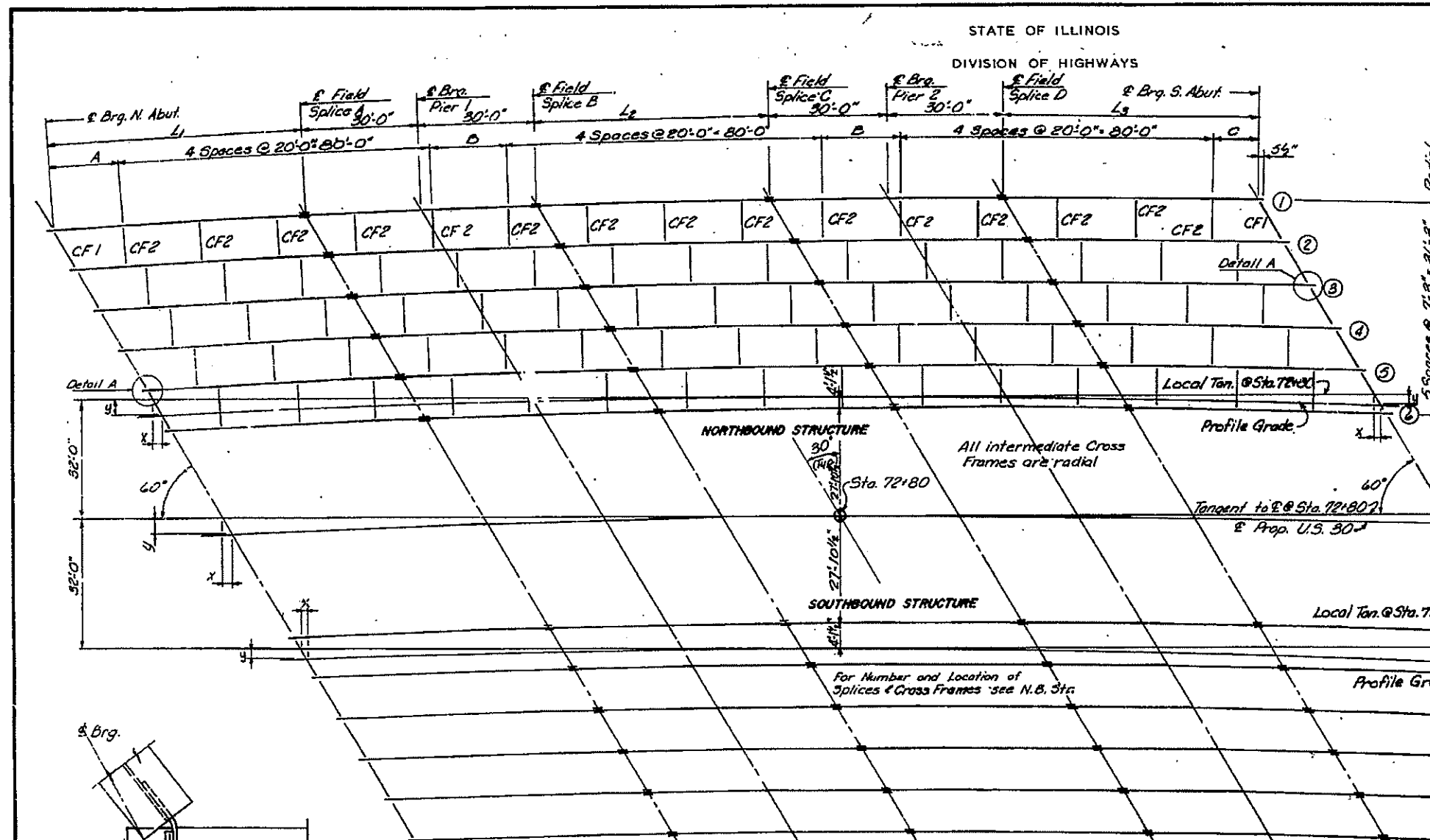
EXAMINED	_____
APPROVED	_____



Parapet Reinforcement and Class X Concrete are billed on sheet #C

SUPERSTRUCTURE-SB BRIDGE
 F.A. RTE. 403 ~ SEC. 195-3B
 WHITESIDE COUNTY
 STATION 72+80

FOR INFORMATION ONLY



ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 403	195-3	Whiteside	589	184
FED. ROAD DIST. NO. 7 (ILLINOIS F.A. PROJ.)			SHEET NO. 9	
			20 SHEETS	

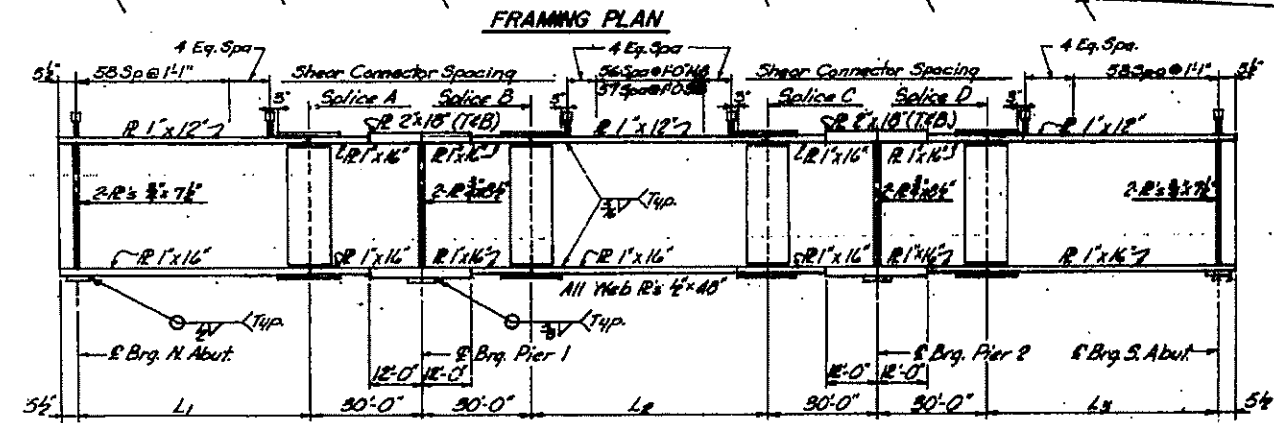
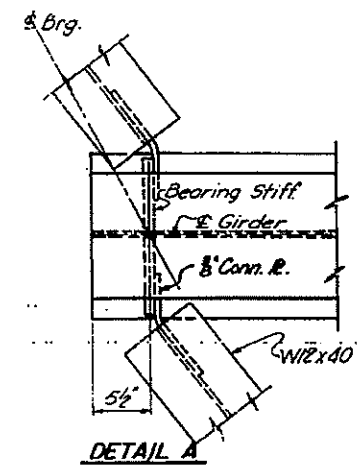
Girder	Brig. N.A.	Splice A	Brig. P1	Splice B	Splice C	Brig. P2	Splice D	Brig. S.A.
1	5.499	2.175	2.335	1.885	1.977	0.807	0.417	0.885
2	5.581	2.207	2.277	1.824	2.701	0.889	0.840	0.821
3	5.024	2.703	2.703	1.775	0.676	0.526	0.277	0.885
4	4.285	2.203	1.764	1.184	1.077	0.676	0.885	0.885
5	4.447	2.686	1.827	1.066	0.771	0.561	0.885	0.885
6	4.446	2.567	1.678	0.781	0.285	0.526	0.885	0.885
7	3.704	2.397					0.885	0.885
8	3.029	1.785	0.889	0.489	0.803	0.175	0.885	0.885
9	2.856	1.647	0.788	0.487	0.287	0.144	0.885	0.885
10	2.434	1.466	0.677	0.388	0.207	0.115	0.885	0.885
11	2.581	1.872	1.116	0.278	0.170	0.069	0.885	0.885
12	2.291	1.281	0.446	0.257	0.087	0.050	0.885	0.885
P.C. N.B.	4.581	2.687		0.979	0.584		0.885	0.885
P.G. S.B.	2.928	1.690		0.272	0.157		0.885	0.885

The additional stress due to curvature is approx. and in the order of 2.5% Not included in table. I_y and S_y are the moment of inertia and section modulus of the steel section. I_x and S_x are the moment of inertia and section modulus of the composite section used in computing f_s . V_e is the maximum LL + Impact shear range in span.

	0.5 Sp. 1	Pier	0.5 Sp. 2
I_y (in ⁴)	21252.6	49652.0	21252.6
S_y (in ³)	918.5	1908.9	918.5
DL (%)	0.965	0.965	0.965
MDL (ft-k)	550	1316	471
f_s DL (ksi)	6.92	8.27	6.18
I_x (in ⁴)	36653.7	29633.0	36653.7
S_x (in ³)	1123.0	1908.9	1123.0
SDL (%)	0.417	0.417	0.417
MSDL (ft-k)	269	480	284
f_s SDL (ksi)	2.87	3.02	3.08
V_e (in ³)	29942.7	29633.0	29942.7
S_x (in ³)	1228.6	1908.9	1228.6
MLL (ft-k)	796	763	830
Minip (ft-k)	179	162	168
Mtotal (ft-k)	975	925	998
f_s LL (ksi)	9.55	5.81	9.77
f_s TOTAL (ksi)	19.53	17.10	18.95
V_e (k)	57.69	-	51.11

	Abut.	Pier 1	Pier 2
RDL (k)	48.1	175.5	175.5
RLL (k)	46.8	75.2	75.2
IMP (k)	10.6	16.1	16.1
Rtotal (k)	105.5	266.8	266.8

Girder	Radius	L1	L2	L3	A	B	C
1	5849.655	60'-8"	60'-8"	60'-8"	17'-6"	20'-2"	18'-8"
2	5842.205	60'-8"	60'-8"	60'-8"	17'-6"	20'-3"	18'-8"
3	5805.185	60'-8"	60'-8"	60'-8"	17'-6"	20'-3"	18'-8"
4	5847.905	60'-8"	60'-8"	60'-8"	17'-6"	20'-4"	18'-8"
5	5800.405	60'-8"	60'-8"	60'-8"	17'-6"	20'-4"	18'-8"
6	5802.205	60'-8"	60'-8"	60'-8"	17'-6"	20'-4"	18'-8"
7	5777.405	60'-8"	60'-8"	60'-8"	18'-8"	20'-9"	18'-8"
8	5770.205	60'-8"	60'-8"	60'-8"	18'-8"	20'-9"	18'-8"
9	5863.156	60'-8"	60'-8"	60'-8"	18'-8"	20'-10"	18'-8"
10	5736.905	60'-8"	60'-8"	60'-8"	18'-8"	20'-10"	18'-8"
11	5806.655	60'-8"	60'-8"	60'-8"	18'-8"	20'-11"	18'-8"
12	5841.905	60'-8"	60'-8"	60'-8"	18'-8"	20'-11"	18'-8"



GIRDER ELEVATION
(To be fabricated to its required radius)

Note: All bolts for field splices shall be 1/2" high strength bolts. Contact surfaces of all splices shall be free of oil or paint.

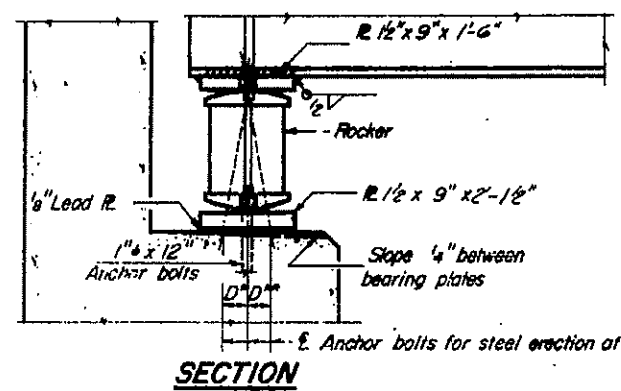
DESIGNED	JFK	EXAMINED	
CHECKED	M/L	PASSED	
DRAWN	RLC	APPROVED	
CHECKED	M/L		

FRAMING PLAN
F.A. RTE. 403 - SEC. 195-3B
WHITESIDE COUNTY
STATION 72+80

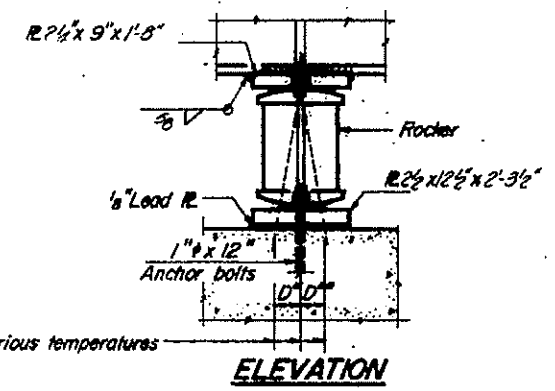
FOR INFORMATION ONLY

STATE OF ILLINOIS
DIVISION OF HIGHWAYS

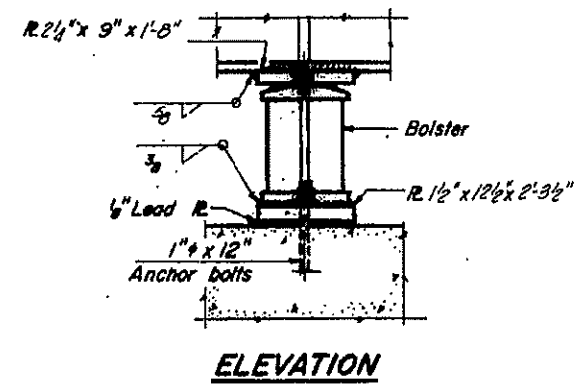
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
403	195-3	Whiteside	589	185
SHEET NO. 10 20 SHEETS				



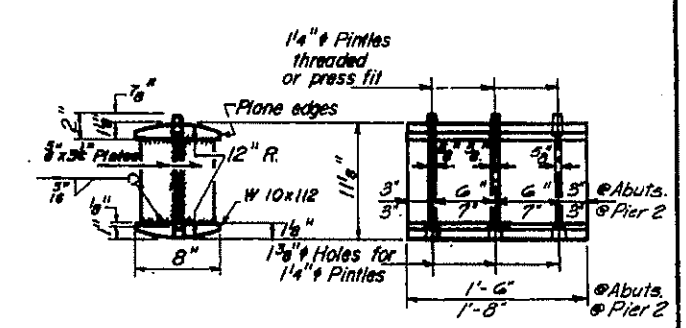
SECTION



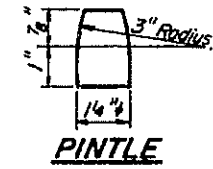
ELEVATION



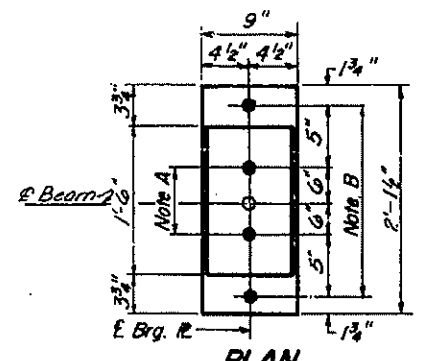
ELEVATION



ROCKER



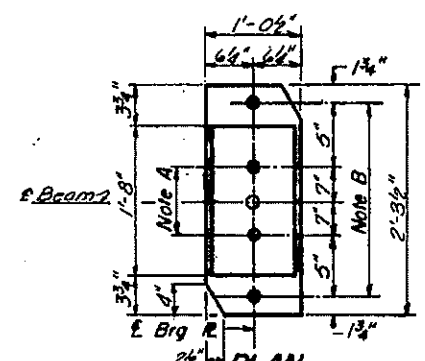
PINTLE



PLAN

AT ABUTMENT

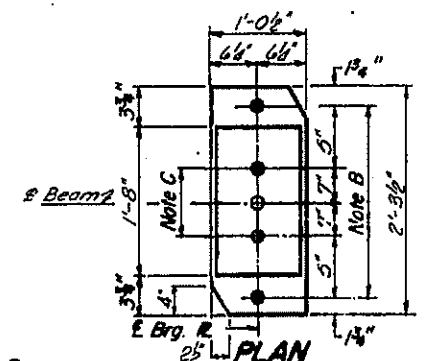
NOTE A
1 3/8 inch Holes - 1 inch deep in top R for pintles Thread or press fit pintles into bottom R.



PLAN

AT PIER 2

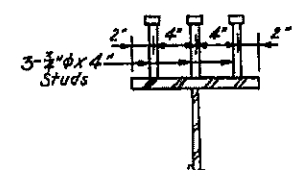
NOTE B
1 1/2 inch Holes for 1 inch anchor bolts. 3/8 x 2 1/2 x 2 1/2 inch R. Washers under nut.



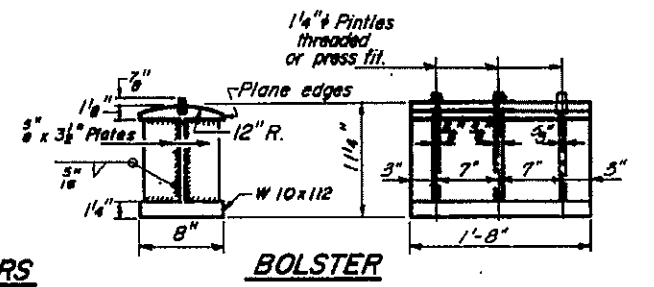
PLAN

AT PIER 1

NOTE C
1 3/8 inch Holes 1 inch deep in top R. only for 1/4 inch pintles.



SHEAR CONNECTORS

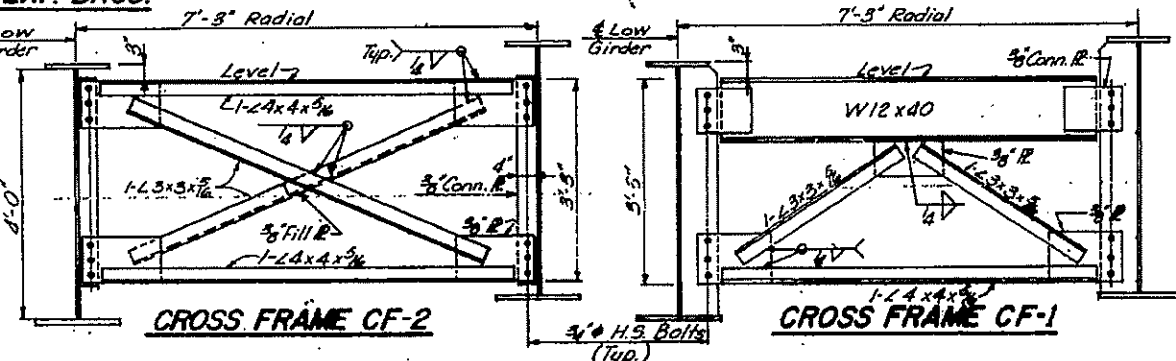


BOLSTER

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

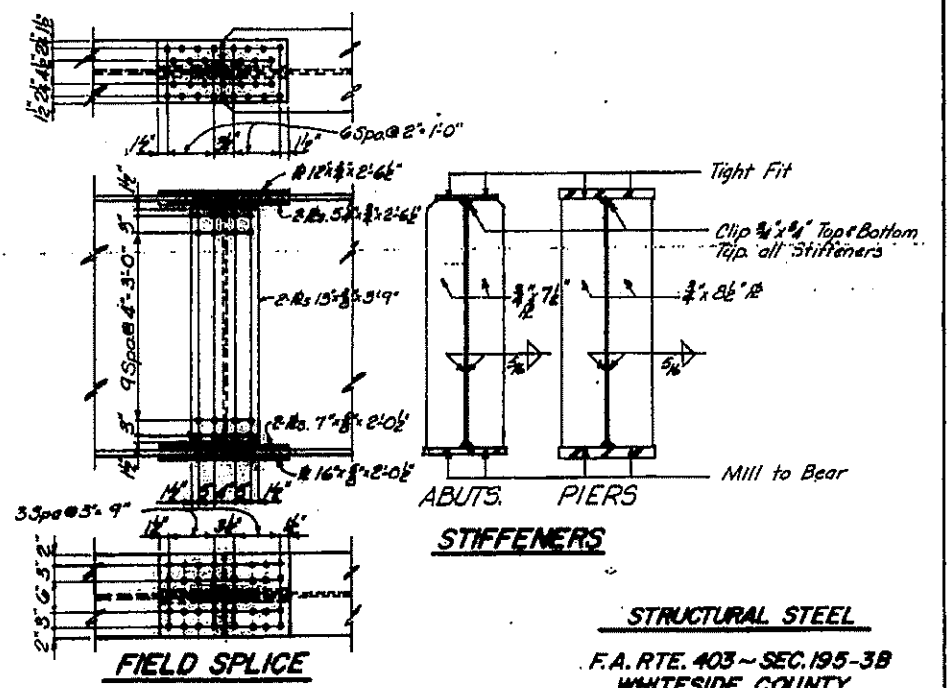
- a) D* (Side of brg away from fixed brg)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F
- D** (Side of brg toward fixed brg)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F
- b) After beams have been erected and dimensions 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.

BEARING ASSEMBLY DETAILS



ELEVATIONS-TOP OF WEB (For Fabrication Only)

Girder	Splice A	Splice B	Splice C	Splice D	Splice E	Splice F	Splice G	Splice H
1	628.71	628.06	628.58	628.89	628.12	628.08	627.94	627.85
2	628.38	628.12	628.08	627.95	627.70	627.67	627.61	627.51
3	629.08	627.79	627.70	627.61	627.64	627.85	627.57	627.17
4	629.71	627.85	627.56	627.20	627.10	627.02	626.93	626.83
5	627.58	627.11	627.03	626.94	626.76	626.68	626.59	626.49
6	627.04	626.77	626.69	626.60	626.42	626.30	626.25	626.15
7	627.54	627.06	626.97	626.88	626.70	626.61	626.52	626.42
8	627.00	626.72	626.63	626.54	626.36	626.27	626.18	626.08
9	626.67	626.39	626.30	626.20	626.02	625.93	625.84	625.74
10	626.33	626.04	625.95	625.86	625.68	625.59	625.50	625.40
11	625.99	625.70	625.62	625.53	625.34	625.25	625.16	625.06



STIFFENERS

FIELD SPLICE

DESIGNED	J.F.K.	18
CHECKED	W.L.O.	
DRAWN	R.L.C.	
CHECKED	W.L.O.	

STRUCTURAL STEEL
F.A. RTE. 403 - SEC. 195-3B
WHITESIDE COUNTY
STATION 72+80