06-13-14 LETTING ITEM 067

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

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

0

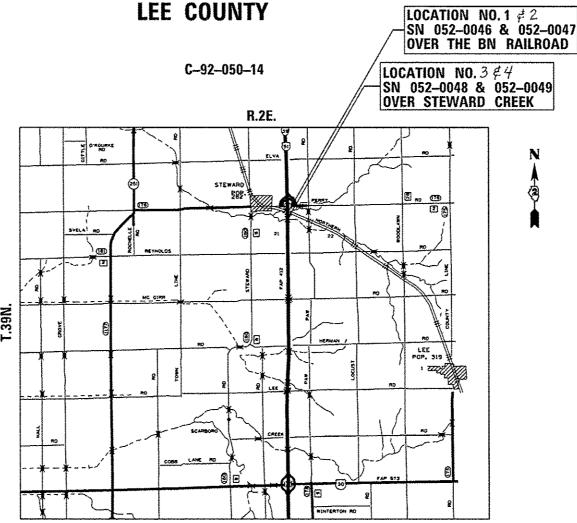
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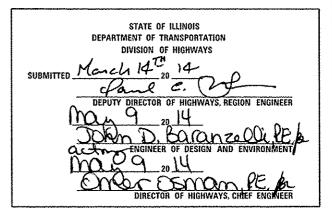
PROPOSED HIGHWAY PLANS

FAI ROUTE 39 (I-39)
SECTION: D2 BRIDGE PAINTING 2014-4
TYPE of IMPROVEMENT: BRIDGE PAINTING



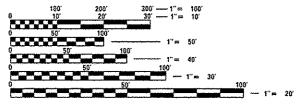
RTE. SECTION COUNTY TOTAL SHEET NO. 39 02 BRIDGE PAINTING 2014-4 LEE SZ 1
RLLINDIS CONTRACT NO. 64KI1

D-92-031-14



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ALTO TOWNSHIP, SECTION 21



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. 64K11

Qev.

INDEX OF SHEETS

INDEX OF SHEETS & STATE STANDARDS & GENERAL NOTES

SUMMARY OF QUANTITIES

TYPICAL SECTIONS

TRAFFIC CONTROL PLAN - STAGE I TRAFFIC CONTROL PLAN - STAGE II

TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)

PAINTING DETAILS (DIST STD 44.1)
INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) (DIST STD 39.2)

18 - 32 EXISTING PLAN SHEETS

STATE STANDARDS

701101 - 04	OFF -RD OPERATIONS, MULTILANE, 15'(4,5m) TO 24"(600mm) FROM PAVEMENT EDGE
701106 - 02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15'(4,5m) AWAY
701400 - 07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 08	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402 - 09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411 - 08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS≥ 45 MPH
701426 - 06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS≥ 45 MPH
701901 - 03	TRAFFIC CONTROL DEVICES
704001 - 07	TEMPORARY CONCRETE BARRIER
720011 - 01	SIGN PANEL MOUNTING DETAILS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

All BorrowWaste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpaing 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 123 ENERGY AVENUE ROCKFORD, IL 61109

Telephone: FRONTIER ATTN: DONALD BELMORE 2239 NEWBURG ROAD BELVIDERE, IL 61008

NICOR GAS CO. ATTN: CONSTANCE LANE 1844 FERRY ROAD

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 ALTERNATEMODIFIED 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). ABSOLULTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.

FILE HAPE :	USER NAME = doesdd	DESIGNED -	REVISED -
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Default	PLOT DATE > Mon Mar 17 14:12:55 2014	DATE -	REVISED -

STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

INDEX OF SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
STATE STANDARDS	39	DZ BRIDGE PAINTING 2014-4		32	2
SHEET OF SHEETS STA, TO STA,		IELENDISIPED, AI	CONTRAC	T NO.	64K11

SUMMARY OF QUANTITIES

			STATE	STATE
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	_
				0014
		1 01111		
67100100	MOBILIZATION	L SUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1
70300220	TEMPORARY PAVEMENT MARKING LINE 4"	FOOT	12,473	12,473
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4,158	4,158
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3,129.49	3129.49
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3,091.48	3,091.48
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	8,473	8,473
70007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
<u></u>	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.3	L SUM	1	/
	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	LSUM	1	1
	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.4	LSUM	ļ	1
Z001050 I	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM		11
20010503	CLEANING AND PAINTING STEEL BRIDGE NO.3	L SUM		
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	LSUM	1,	1,
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO.4	L SUM	/	/
	SPEED DISPLAY TRAILER	CAL MO	3	3
* 5	pecialty /tems			F.A.I. SEC

Rev,

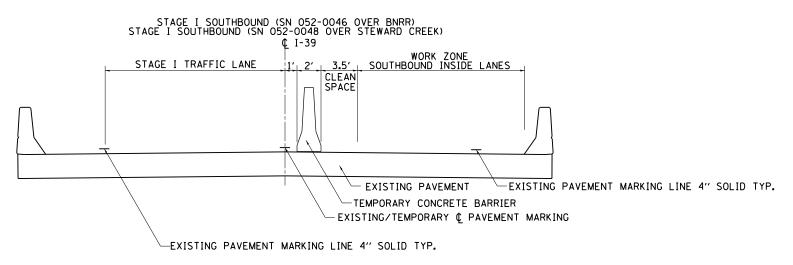
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

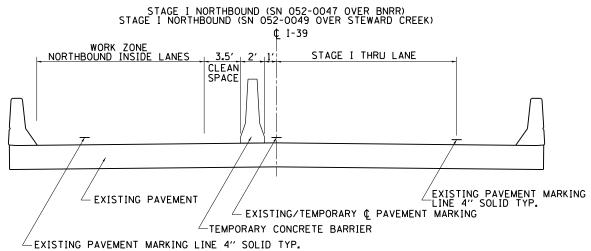
SUMMARY OF QUANTITIES

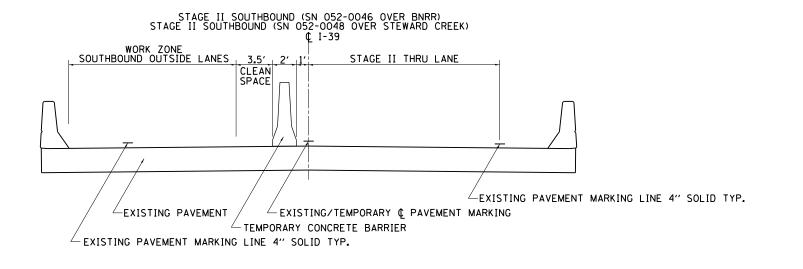
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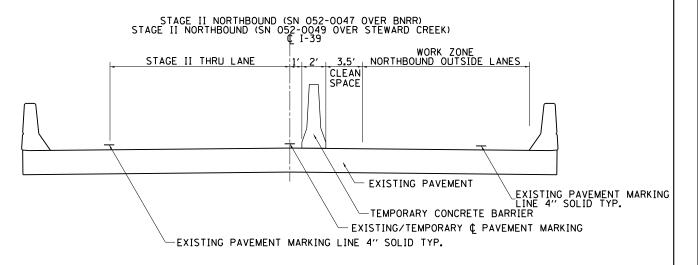
100%

STAGING TYPICALS









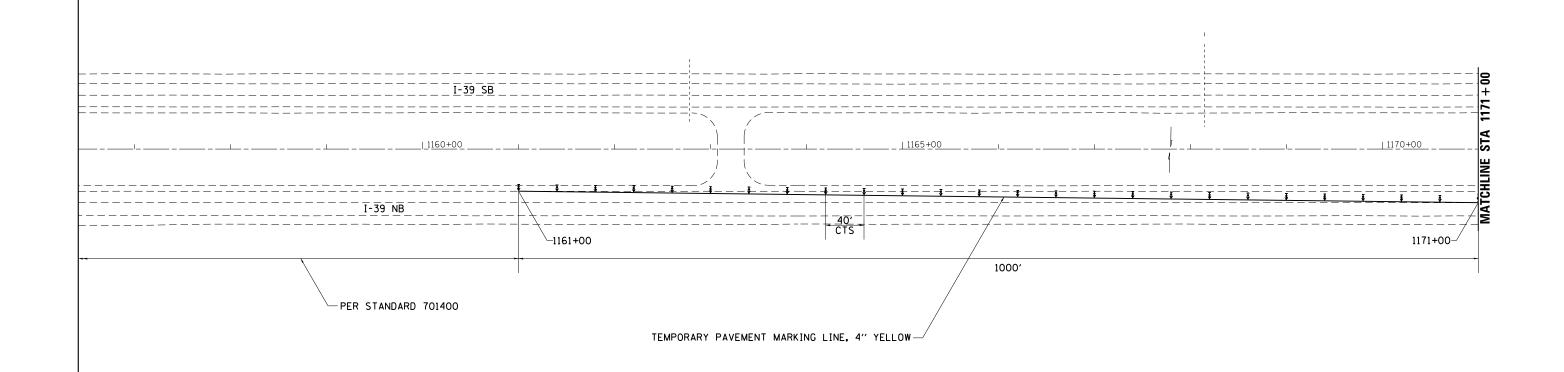
FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED -	Ī
0:\BR\Doss\Lee\64Kll Cleaning & Painting	SN 052-0046, 052-0047,052-0048,052-0049\C	CDROWN t-cover.dgn	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	STAGING TYPICALS					F.A.I RTE.		SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
		STAGIN	G IYPI	JALS		39	D2 BRIDG	E PAI	NTING 2	2014-4	LEE	32	4
											CONTRACT	NO.	64K11
CALE:	SHEET	OF	SHEETS	STA	TO STA				ILLINOIS	FED. AI	D PROJECT		

TRAFFIC CONTROL PLAN - STAGE I





SYMBOLS





- ⊧ Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier

 - Drums with steady burning monodirectional light

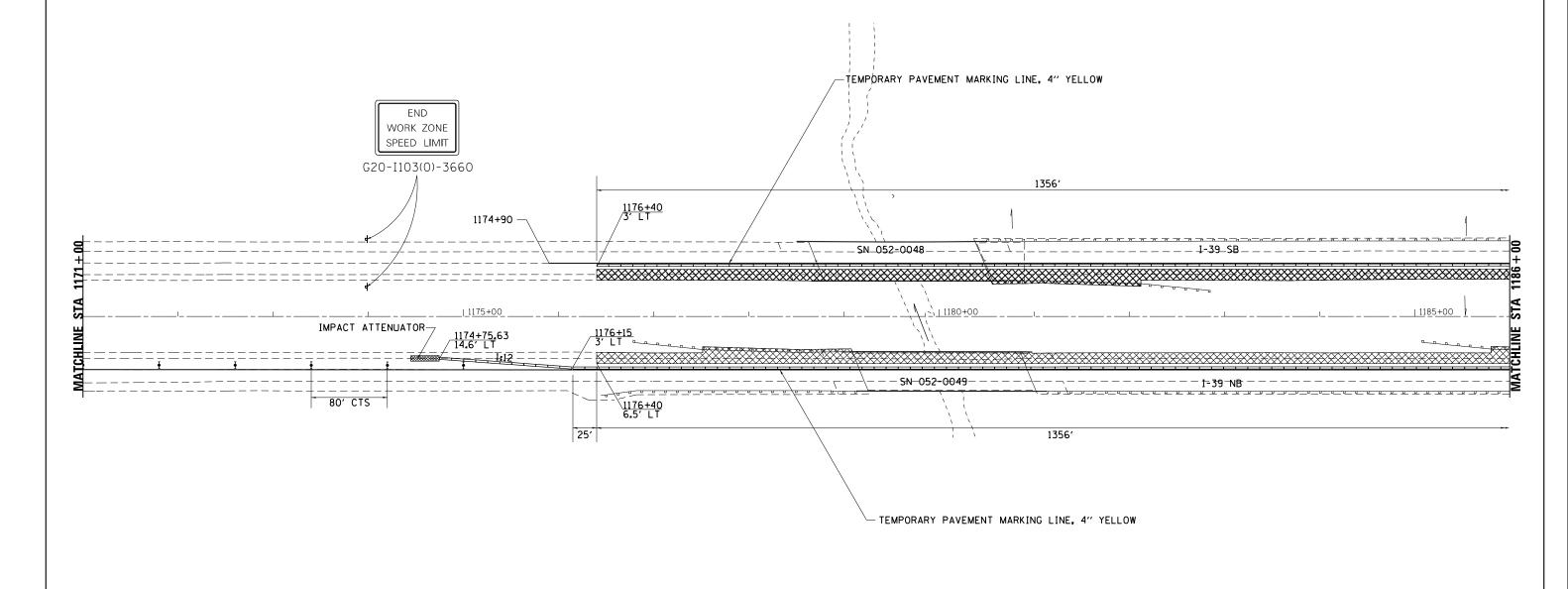
- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25′ (7.6 m).

 Markers on right shall be shall be crystal and markers on left shall be amber.
- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- (4) Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFIC CONTROL PLAN	RTF. SECTION	COUNTY SHEETS NO.
0:\BR\Doss\Lee\64KII Cleaning & Painting	SN 052-0046, 052-0047, 052-0048, 052-0049	.CACDRAW Nht-cover.dgn	REVISED	STATE OF ILLINOIS		39 D2 BRIDGE PAINTING 2014-	4 LEE 32 5
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	STAGE I		CONTRACT NO. 64K11
Default	PLOT DATE = Mon Mar 17 11:49:29 2014	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	ILLINOIS FED. A	AID PROJECT

TRAFFIC CONTROL PLAN - STAGE I





SYMBOLS



Work area

⊧ Sign

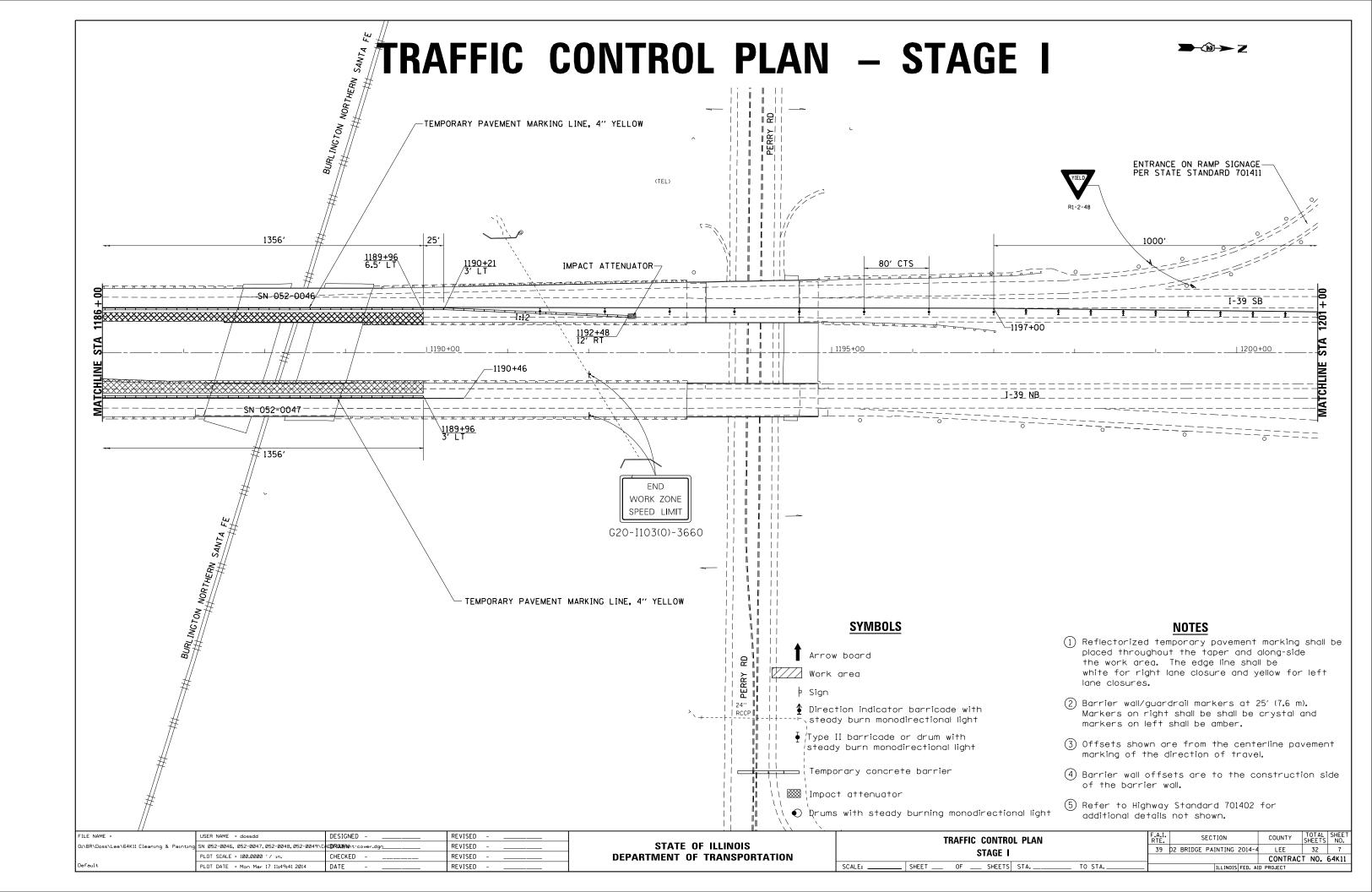
- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

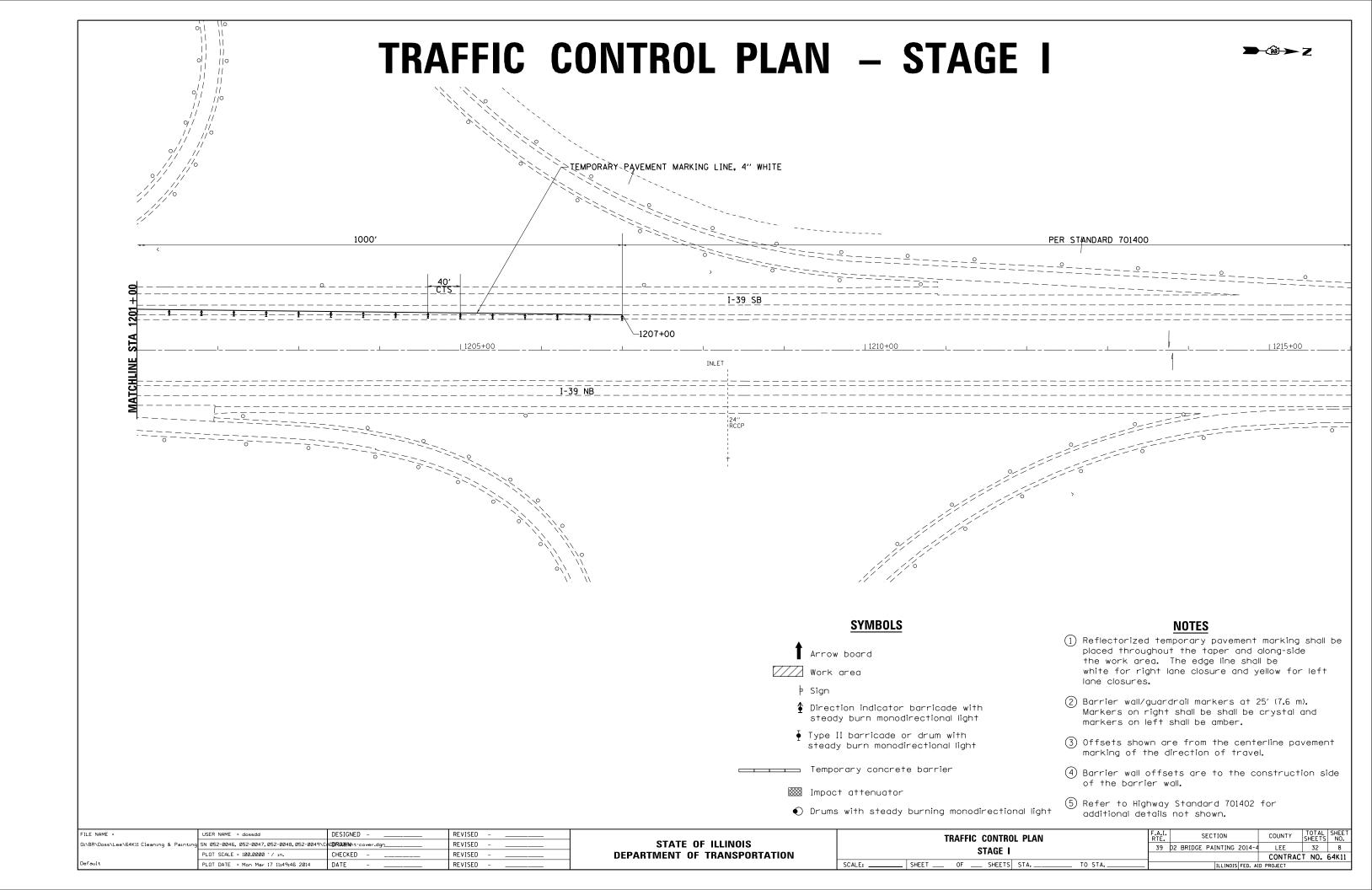
Temporary concrete barrier

Drums with steady burning monodirectional light

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25′ (7.6 m). Markers on right shall be shall be crystal and markers on left shall be amber.
- (3) Offsets shown are from the centerline pavement marking of the direction of travel.
- (4) Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

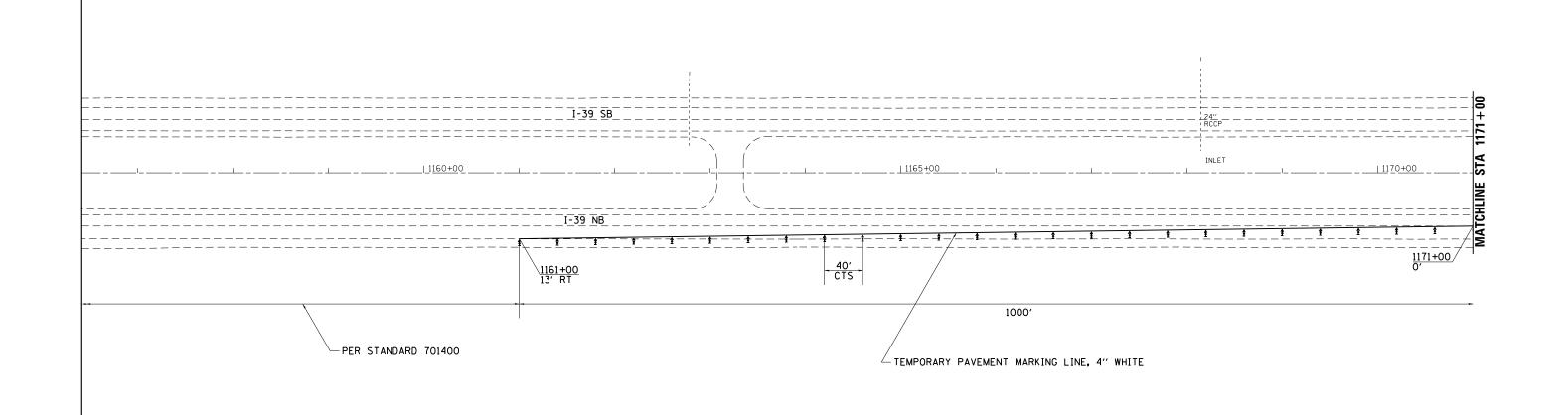
FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFIC CONTROL PLAN	RTF.	SECTION	COUNTY	SHEETS NO.
0:\BR\Doss\Lee\64K11 Cleaning & Painting	SN 052-0046, 052-0047, 052-0048, 052-0049\C	ADDRIA2Waht-cover.dgn	REVISED	STATE OF ILLINOIS		39	D2 BRIDGE PAINTING 2014-4	LEE	32 6
	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	STAGE I				CT NO. 64K11
Default	PLOT DATE = Mon Mar 17 11:49:36 2014	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	_	ILLINOIS FED. AID		





TRAFFIC CONTROL PLAN - STAGE II





SYMBOLS

Arrow boar

Work area

- ↑ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

Temporary concrete barrier

₩ Impact attenuator

• Drums with steady burning monodirectional light

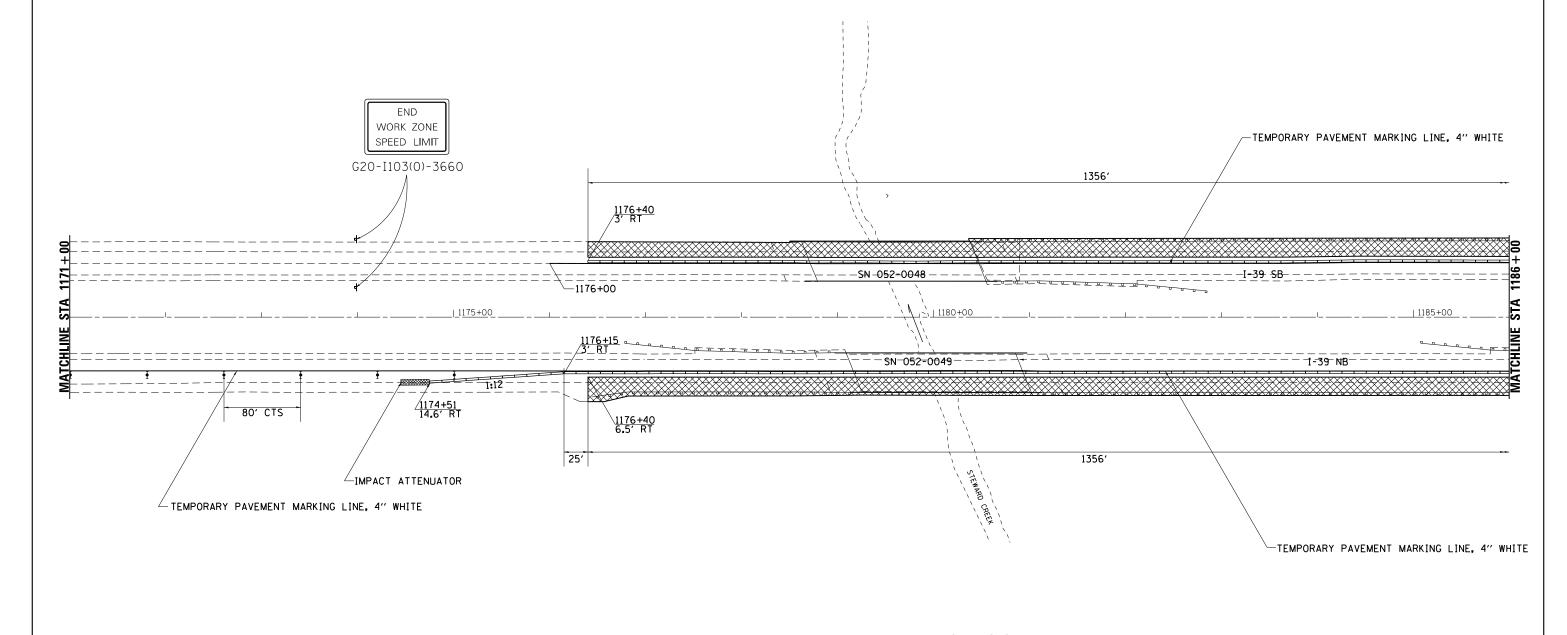
- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- (2) Barrier wall/guardrail markers at 25' (7.6 m).

 Markers on right shall be shall be crystal and markers on left shall be amber.
- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- (4) Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED -		TRAFFIC CONTROL PLAN	F.A.I. SECTION COUN	TY TOTAL SHEET
0:\BR\Doss\Lee\64Kll Cleaning & Painting	SN 052-0046, 052-0047, 052-0048, 052-0049\C	ACDROAWNt-cover.dgn	REVISED	STATE OF ILLINOIS		39 D2 BRIDGE PAINTING 2014-4 LEE	0
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	STAGE II		TRACT NO. 64K11
Default	PLOT DATE = Mon Mar 17 11:49:54 2014	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	ILLINOIS FED. AID PROJECT	

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TRAFFIC CONTROL PLAN - STAGE II



SYMBOLS

Arrow boa

Work area Sign

- ♣ Direction indicator barricade with steady burn monodirectional light
- ▼ Type II barricade or drum with steady burn monodirectional light

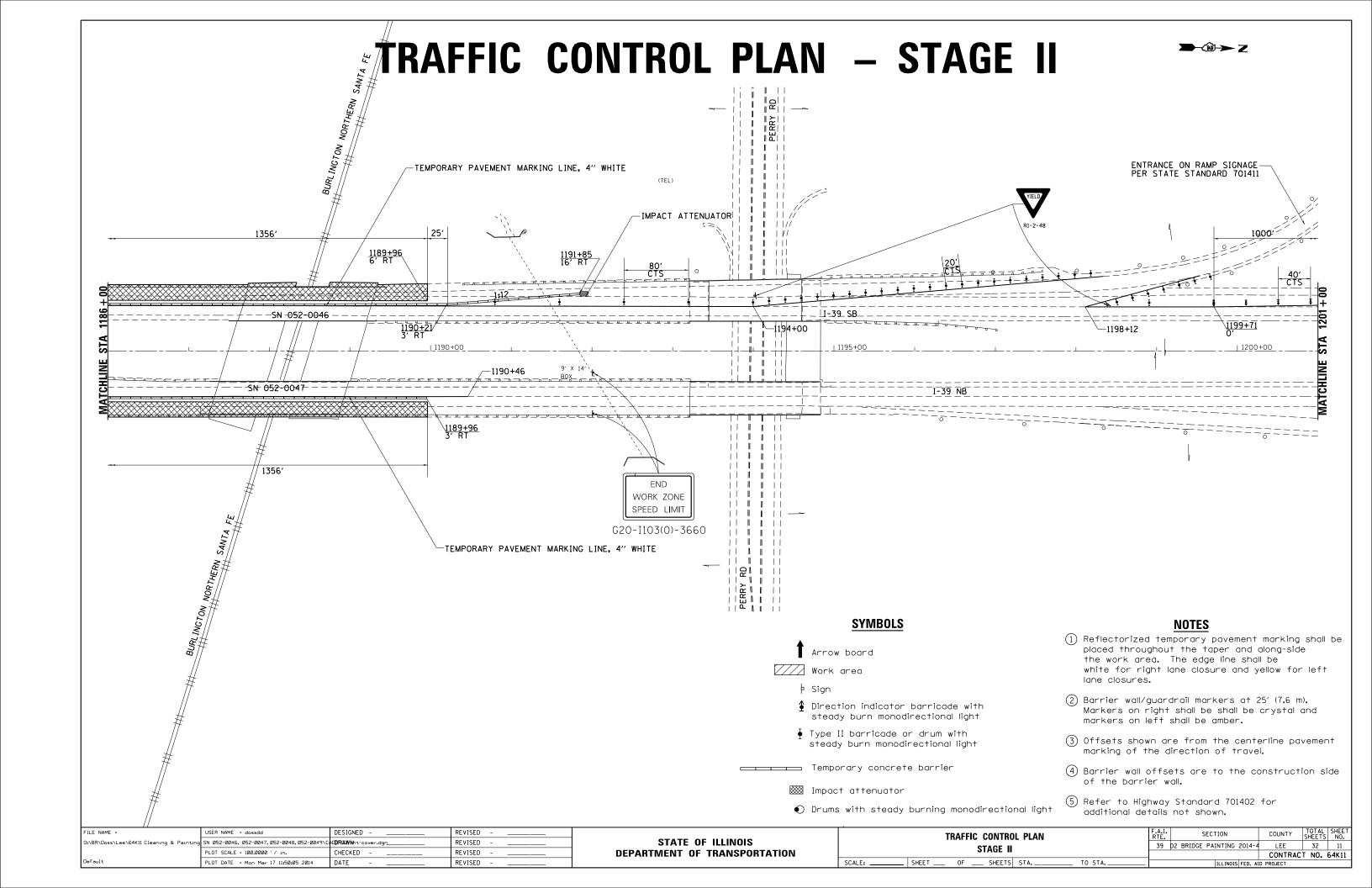
Temporary concrete barrier

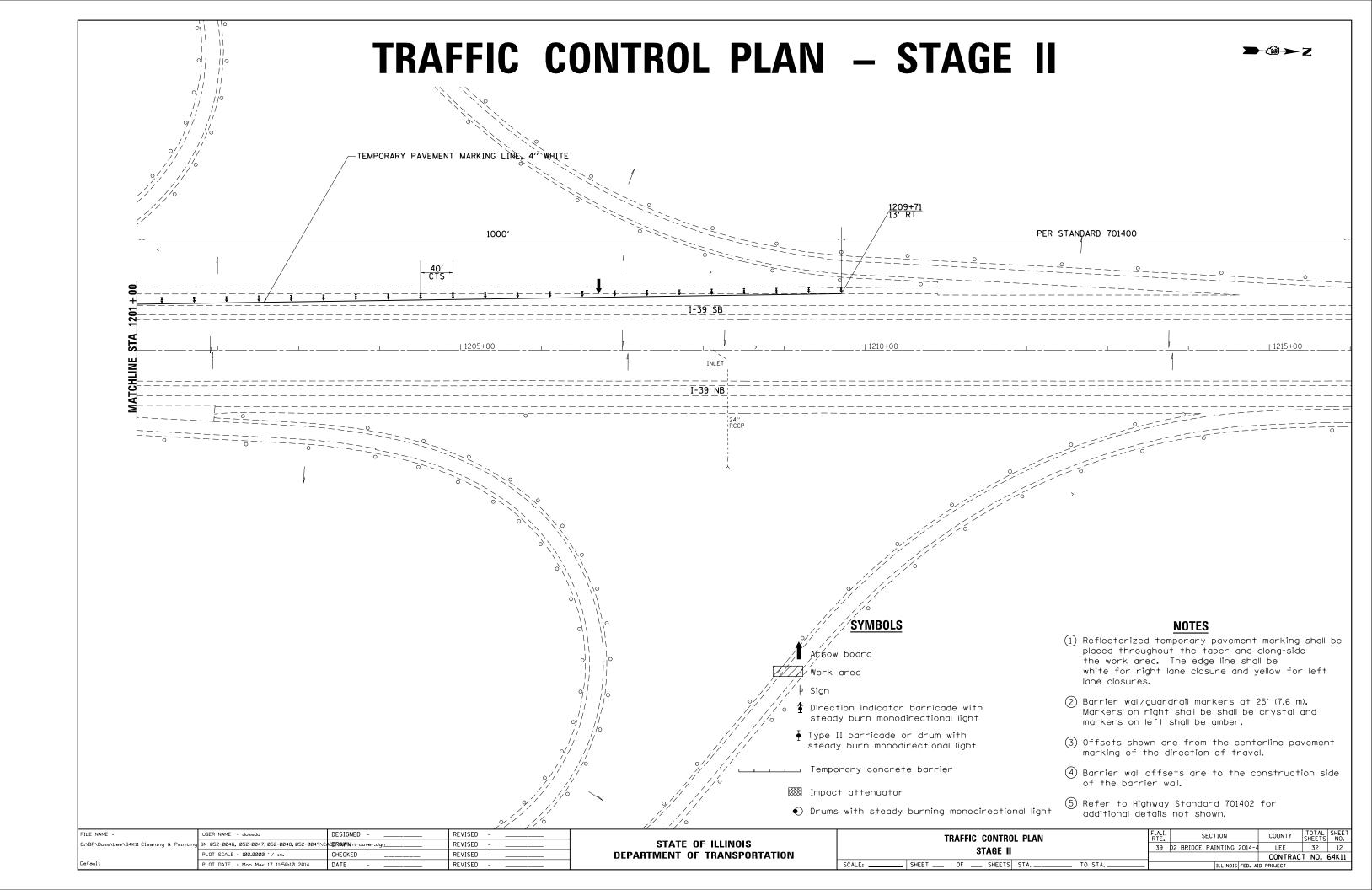
- Drums with steady burning monodirectional light

- (1) Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Barrier wall/guardrail markers at 25′ (7.6 m).

 Markers on right shall be shall be crystal and markers on left shall be amber.
- 3 Offsets shown are from the centerline pavement marking of the direction of travel.
- 4 Barrier wall offsets are to the construction side of the barrier wall.
- (5) Refer to Highway Standard 701402 for additional details not shown.

FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED		TRAFFIC CONTROL PLAN	RTF.	SECTION	COUNTY	SHEETS NO.
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	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	STAGE II				CT NO. 64K11
Default	PLOT DATE = Mon Mar 17 11:49:59 2014	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA	_	ILLINOIS FED. AID		

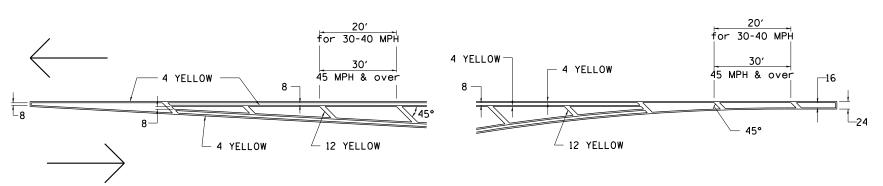


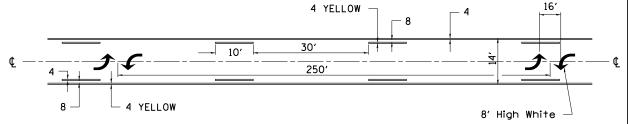


TYPICAL PAVEMENT MARKINGS

MEDIAN PAVEMENT MARKING

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE





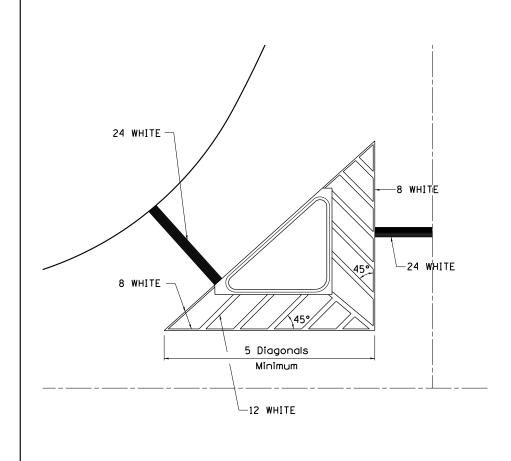
TYPICAL ISLAND OFFSET SHOULDER WIDTH

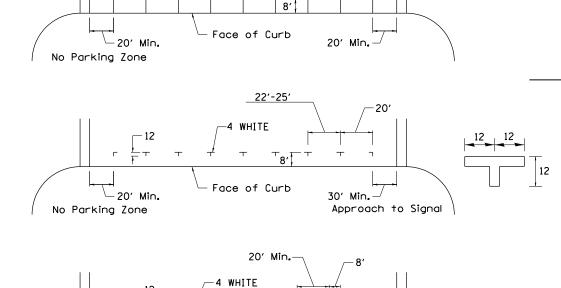
TYPICAL PARKING SPACING

22'-25'

.. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

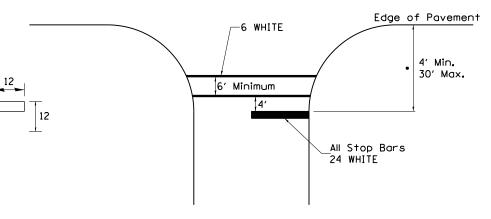
STANDARD CROSSWALK MARKING
See Schedules for Locations





81

20' Min.



 Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossdd	DESIGNED	REVISED - <u>3-05</u> -12
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	PLOT DATE = Mon Mar 17 11:50:15 2014	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

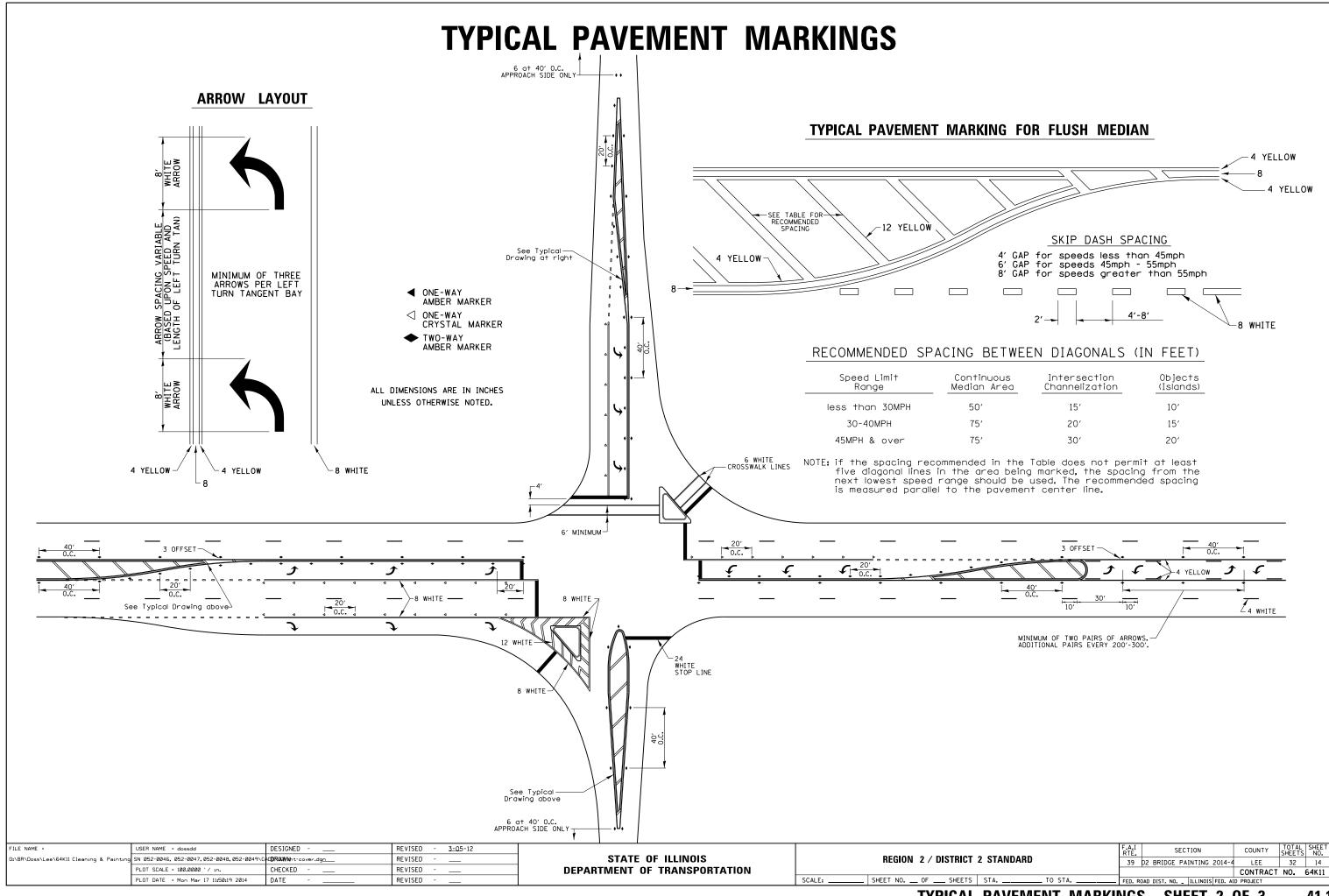
Face of Curb

 ackslash 20′ Min.

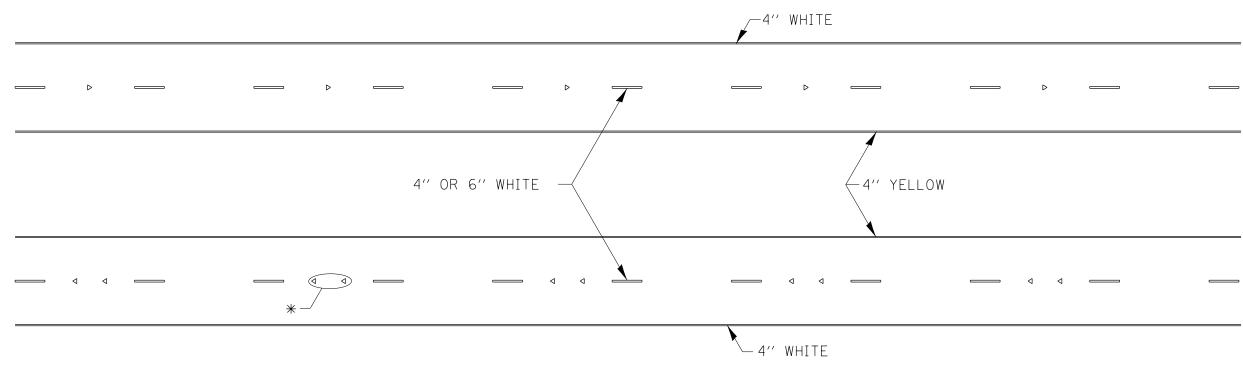
No Parking Zone

	REGION 2 / DISTRICT	2 STANDARD		R.
SCALE:	SHEET NO OF SHEETS	STA.	TO STA.	FE

F.A.I RTE.			S	ECTION			COUNTY	TOTAL SHEETS	SHEET NO.
39	þ2	BRID	GE	PAINTING	2014	-4	LEE	32	13
						Т	CONTRACT	NO.	64K11
 FFD. RO	nΔr	DIST.	NO.	THE INDIS	FFD.	AID	PROJECT		



TYPICAL PAVEMENT MARKINGS

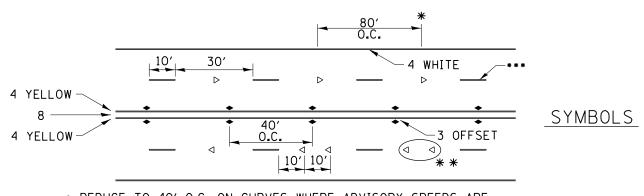


* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS. USE DOUBLE MARKERS WHEN ADT \geq 20,000.

MULTI-LANE / DIVIDED

30'

YELLOV



- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT \geq 20,000
- *** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

I		F.A.I RTE.		SEC	TION		COUNTY
I	REGION 2 / DISTRICT 2 STANDARD	39	D2 E	BRIDGE PA	AINTING 2	2014-4	LEE
l							CONTRA
ı	SCALE: SHEET NO OF SHEETS STA TO STA	FED. R	OAD D	DIST. NO	ILLINOIS	FED. AI	PROJECT

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3

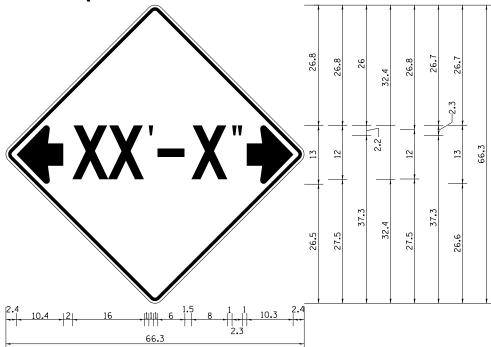
EDGE OF PAVEMENT

WHITE

WHITE-

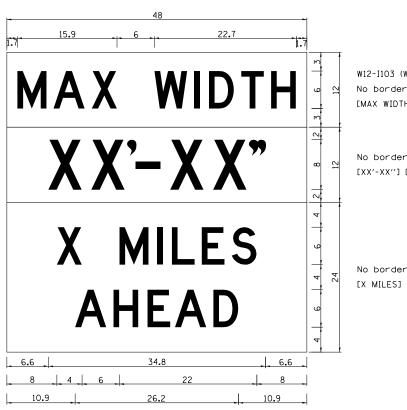
PAINTING DETAILS EXIT RAMP NOTE: GORE HATCHING PLACED ONLY 4 YELLOW EOP-WHEN SCHEDULED IN THE PLANS -4 OR 6 WHITE 12 WHITE 30' CENTERS 4 WHITE7 CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER. 10' SHOULDER ∕-4' SHOULDER 8' SHOULDER 4 YELLOW EOP · 4 YELLOW ∠ OPTIONAL METHOD FOR HIGH VOLUME OFF RAMPS ENTRANCE RAMP 4 OR 6 WHITE 4 WHITE— EOP · 10' SHOULDER 30' 10′ 8 WHITE 8' SHOULDER ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. 4 YELLOW 4 YELLOW CLOVERLEAF 10' SHOULDER 10' SHOULDER 4 WHITE-10' SHOULDER 8 WHITE 8 WHITE EOP 4 WHITE 4 YELLOW 4 YELLOW EOP -200' (TYP.) (TAPER LENGTH AS DIRECTED BY THE ENGINEER) F.A.I SECTION COUNTY TOTAL SHEETS NO. 39 D2 BRIDGE PAINTING 2014-4 LEE 32 16 CONTRACT NO. 64K11 DESIGNED -REVISED - 8-27-13 STATE OF ILLINOIS SN 052-0046, 052-0047, 052-0048, 052-0049\CADDRAWNt-cover.dgn REGION 2 / DISTRICT 2 STANDARD 0:\BR\Doss\Lee\64KII Cleaning & Paint REVISED - <u>10-1</u>8-11 PLOT SCALE = 100.0000 '/ in. CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = Mon Mar 17 11:50:32 2014 REVISED ___ SHEET NO. ___ OF ___ SHEETS | STA. _____ TO STA. _ DATE

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES

W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°



W12-I103 (Width is 8D);
No border, Black on White;
[MAX WIDTH] D:

No border, Black on Orange; [XX'-XX''] D;

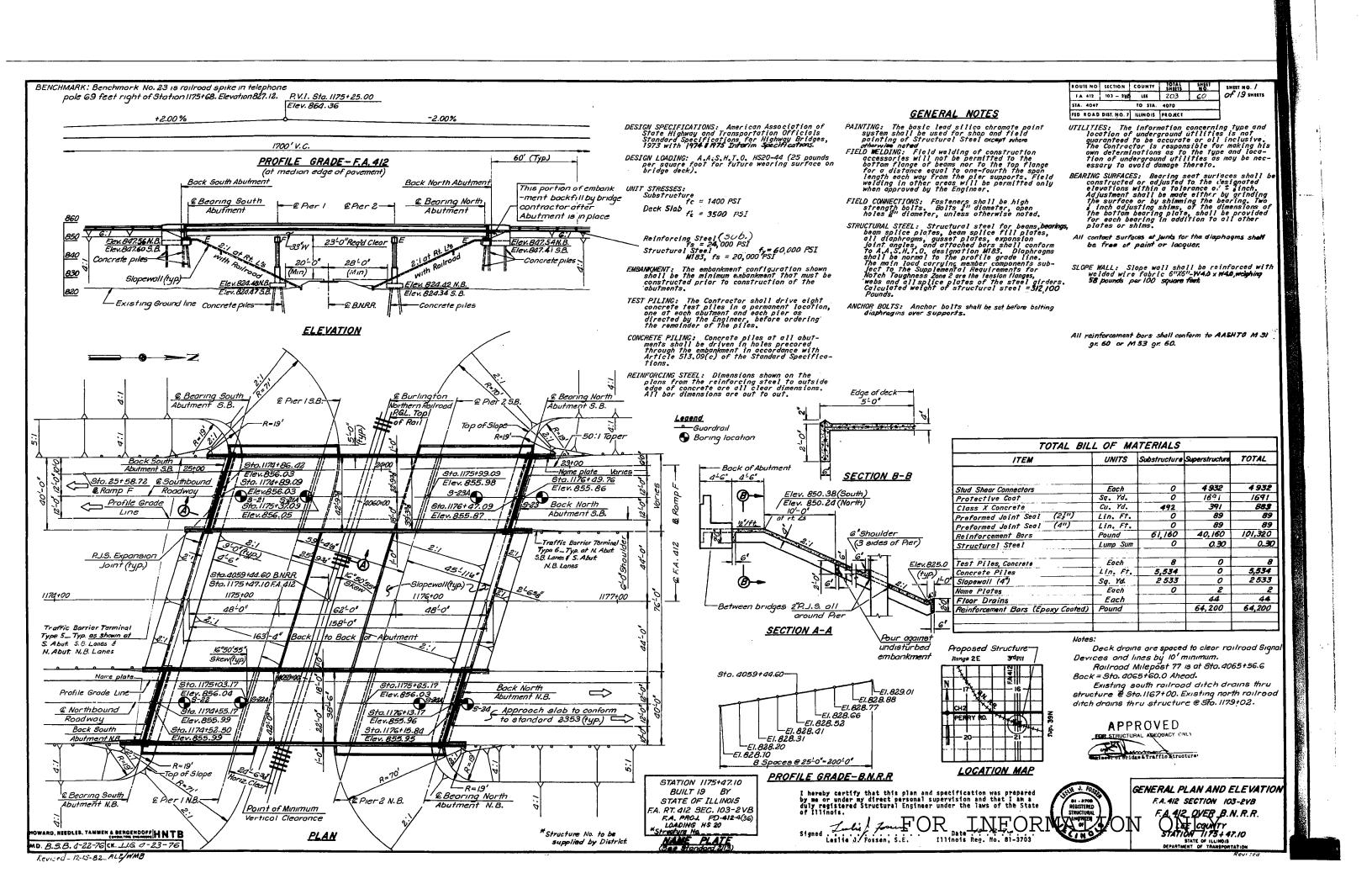
No border, Black on White;
[X MILES] D; [AHEAD] D;

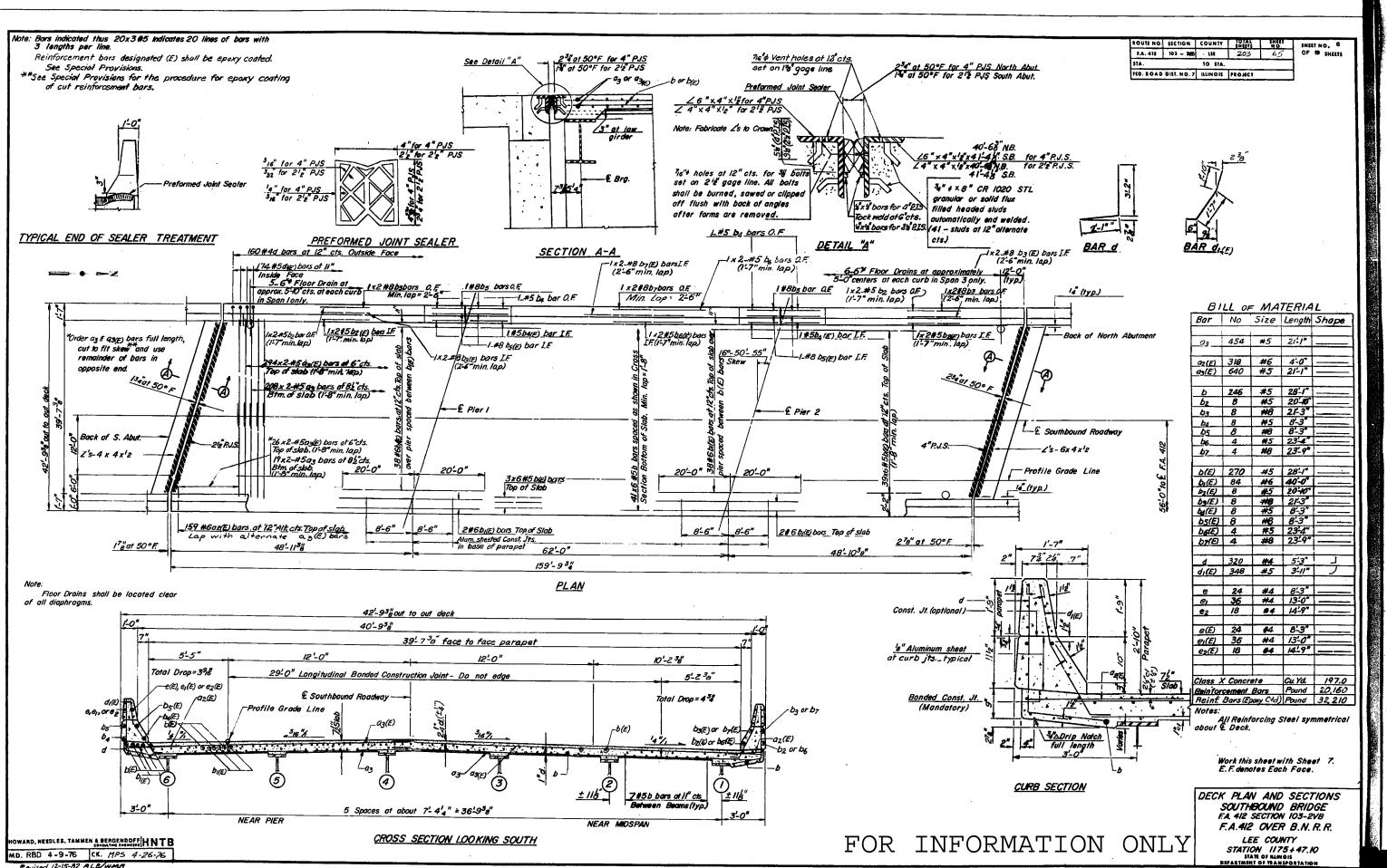
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

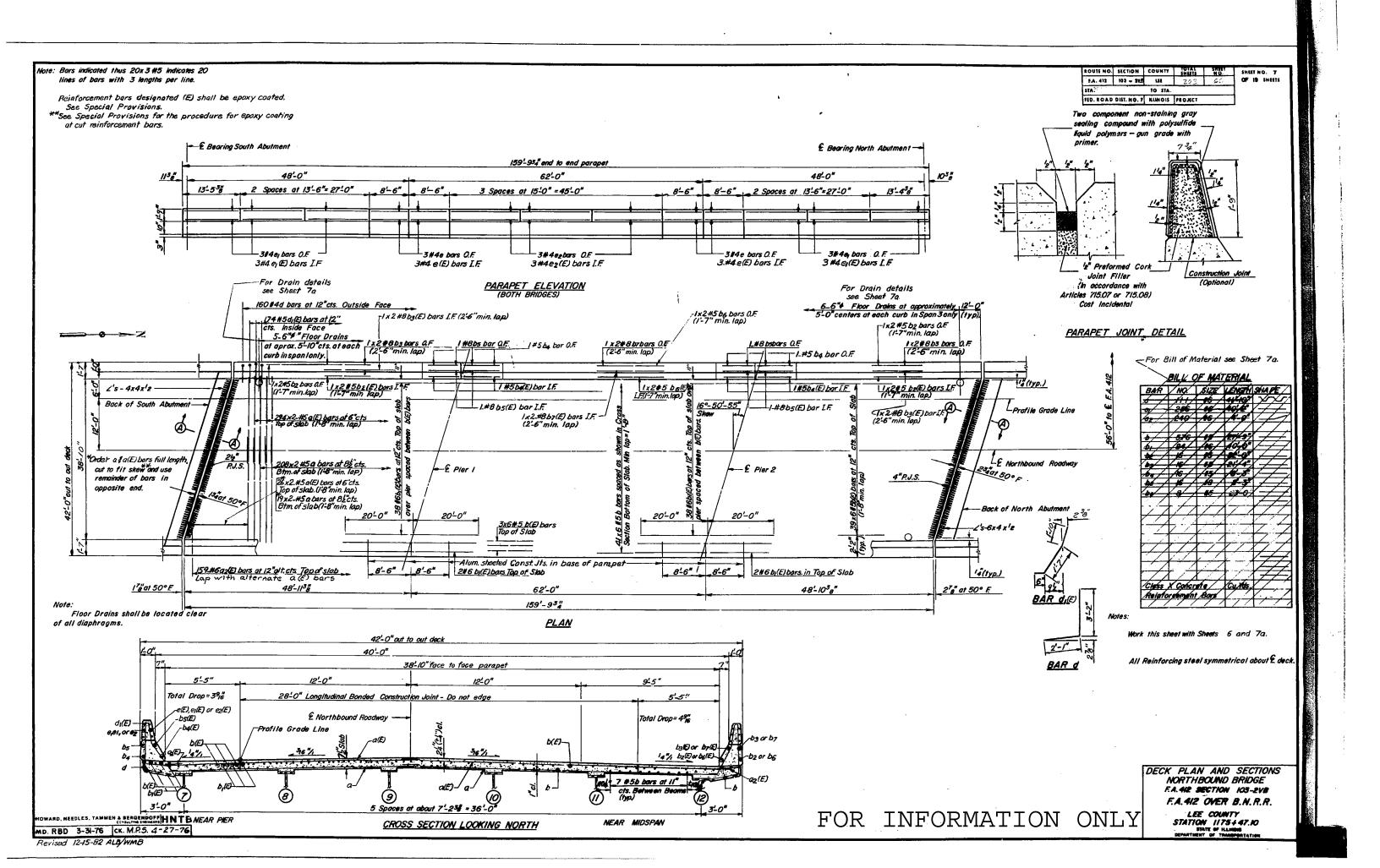
REVISED - 5-15-09

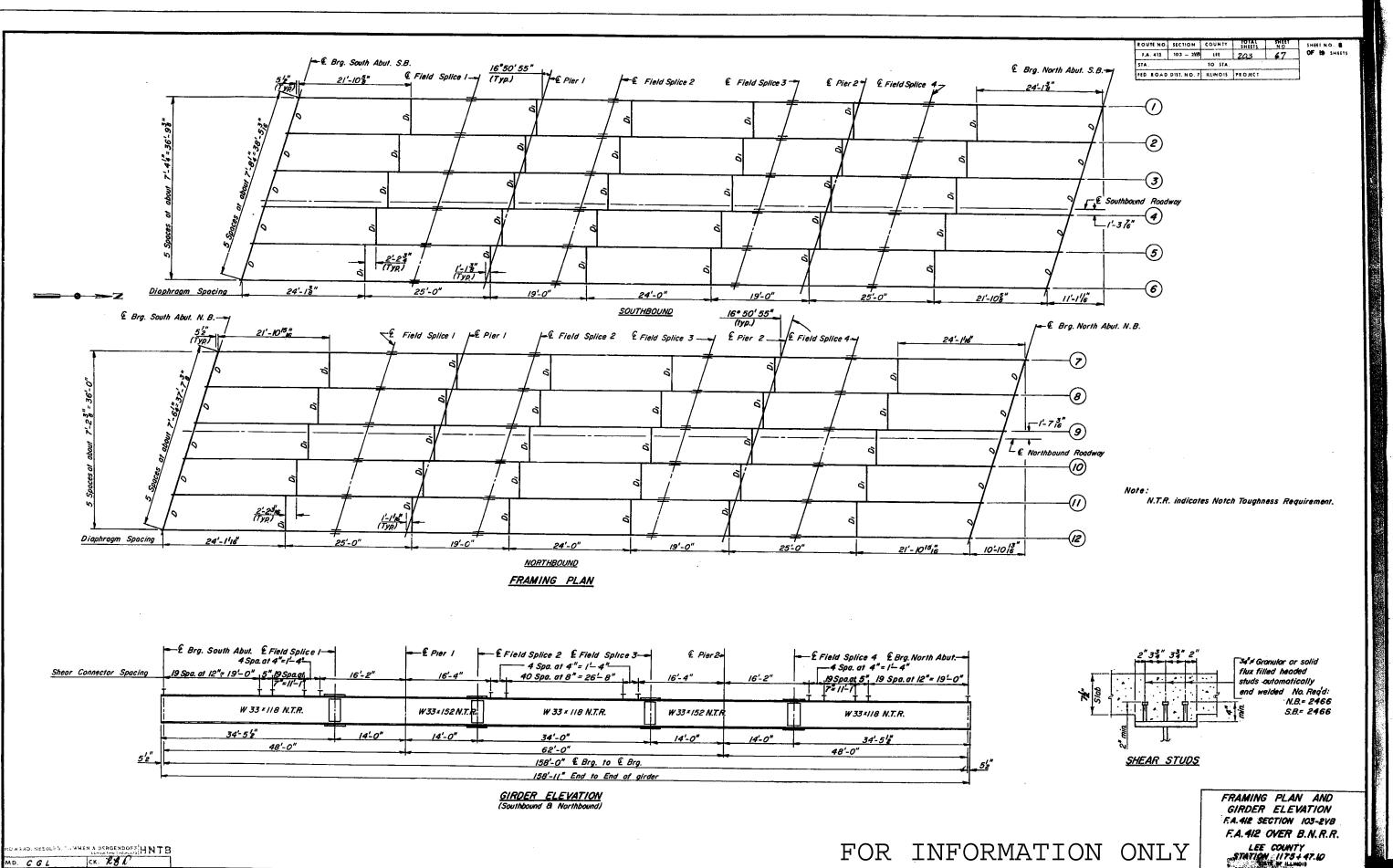
REVISED		F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
REVISED	REGION 2 / DISTRICT 2 STANDARD		D2 BRIDGE PAINTING 2014-4		32	17	
REVISED				CONTRACT	NO.	64K11	
REVISED	SCALE: 100.0000 // in.SHEET NO OF SHEETS STA TO STA	FED. R	DAD DIST, NO. ILLINOIS FED. AI	D PROJECT			





Revised 12-15-82 ALB/WMB





Revised 12-15-82 ALRIWMR

LEE COUNTY

STATION 1175+47.40

LETE W ILLMOST

DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A. 412	103 - 24B	LEE	203	68
STA.		TO STA.		

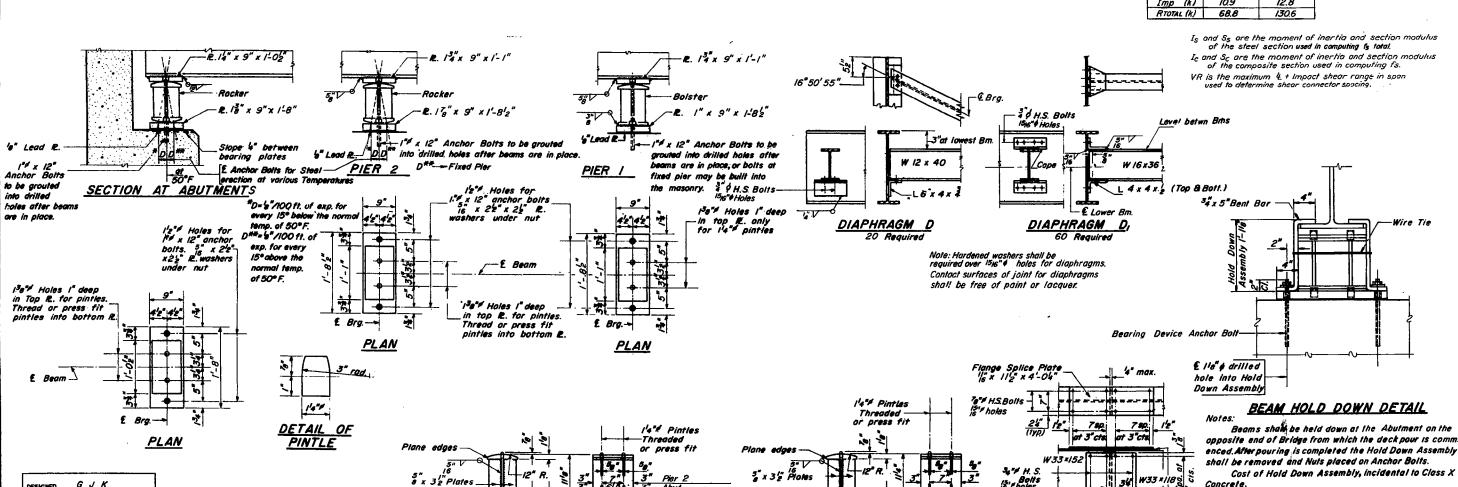
of 19 SHEETS

TOP OF WIDE FLANGE ELEVATIONS (FOR FABRICATION ONLY)												
BEAM NO.	E Brg. S. Abut.	£FS / #	£ Pier I	£ F.S.2 #	£ F.S. 3 #	£ Pier 2	£ F.S.4 #	& Brg.N. Abut				
	854.99	<i>854.9</i> 6	854.94	854.92	854.89	854.87	854.86	854.80				
2	855.I4	855.12	855.10	855.08	855.05	855.03	855.02	854.96				
3	855.26	855.24	855.22	855.2/	855.17	855.16	855.15	855.10				
4	855.34	855.32	855.30	855.29	855.25	855.24	855.23	855.18				
5	855.22	855.21	855.19	855.17	855.14	855.12	855.11	855.07				
6	855.08	855.07	855.05	855.04	855.00	854.99	854.98	854.94				
7	855.05	855.05	855.04	855.04	855.02	855.02	855.02	855.00				
8	855.18	855.19	855.18	855.18	85 5./6	855.16	855.16	855.14				
9	855.29	855.30	855.29	855.29	855.27	855.27	855.27	855.25				
10	855.22	855.24	<i>855.23</i>	855.23	855.21	855.21	855.21	855.20				
11	855.10	<i>855.12</i>	855.II	855.//	855.10	855.10	855.IO	855.08				
12	854.95	854.96	<i>854.95</i>	854.95	854.95	854.95	854.95	854.93				

*Elevations at Splices are for top of W 33 x 152.

INTERIOR	GIRDER N	OMENT TAL	BLE
	0.4 Sp. 1 or 3	Pier I or 2	0.5 Sp. 2
Is (in?)	5900	B160	5900
Ic (inf)	16,329	3	15,329
Ss (in³)	359	487	359
Sc (in3)	535		<i>535</i>
P (k/1)	.837	1.197	.837
MQ (IK)	122	369	126
s nan-compliksi)	4:1	9.1	4.2
50 (K/1)	.321		.321
Mse (ik)	54		68
ME (IK)	335	225	371
Mpmp (Ik)	97	63	100
TOTAL (IK)	486	288	539
fs comp (ksi)	10.9	.7.1	12.1
& TOTAL (KSI)	15.0	16.2	16.3
VR (k)	50.0		427

INTERIOR GIRDER REACTION TABLE								
Abut. Pier								
RQ (k)	20.4	72.2						
RE (K)	37.5	45.6						
Imp (k)	10.9	12.8						
RTOTAL (K)	68.8	130.6						



13e" holes for

G J KK.B. D. CHECKED GGL CHECKED L. B. D.

Revised 12-15-82 ALB/WMB

OWARD, NEEDLES, TAMMEN & BERGENDOFF HNTB

14" Pintles

3" 15. Bolts is holes Web Splice Plate 5" XIBX2'-44" —

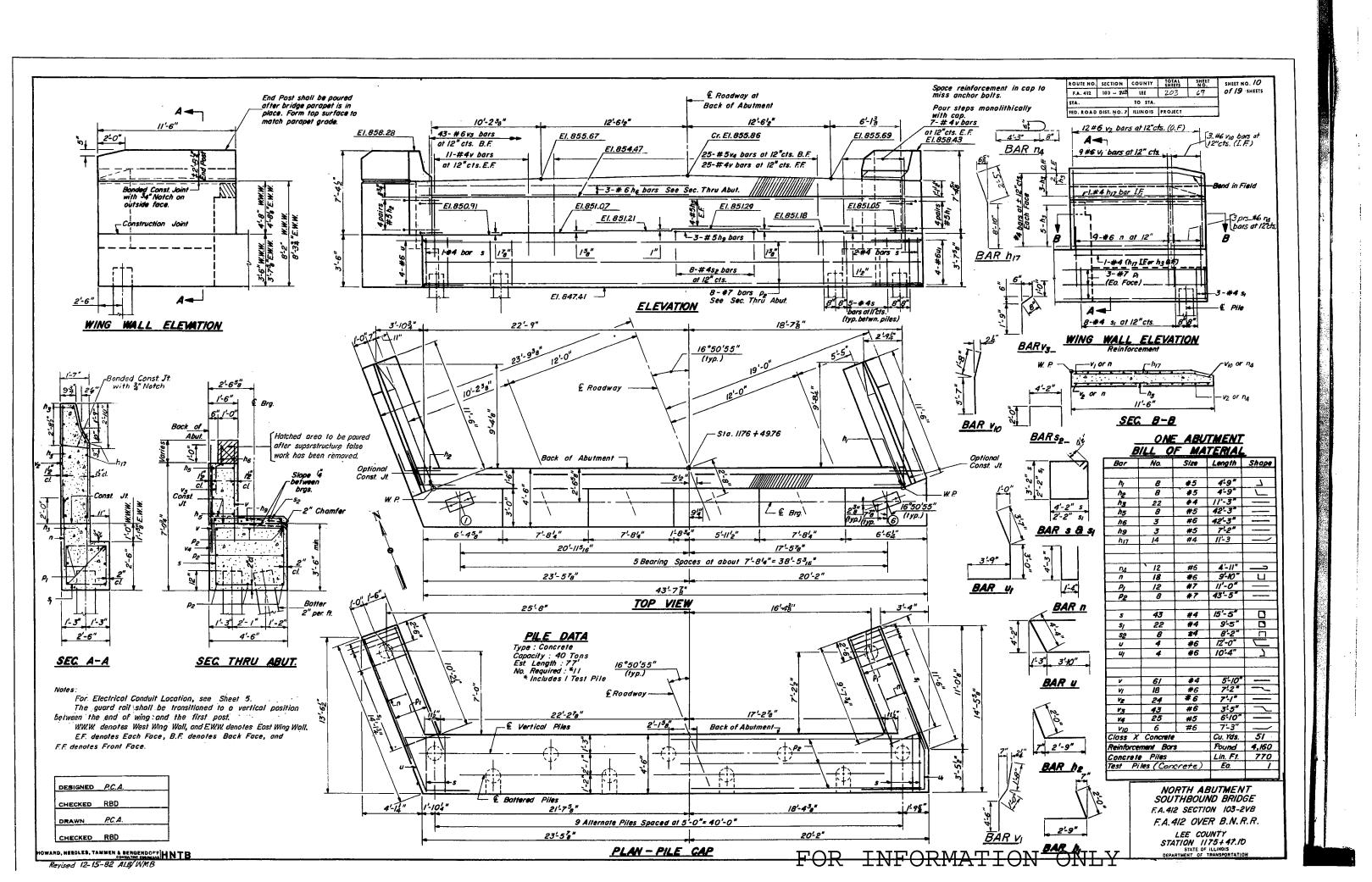
DETAIL OF BOLSTER AT PIER I

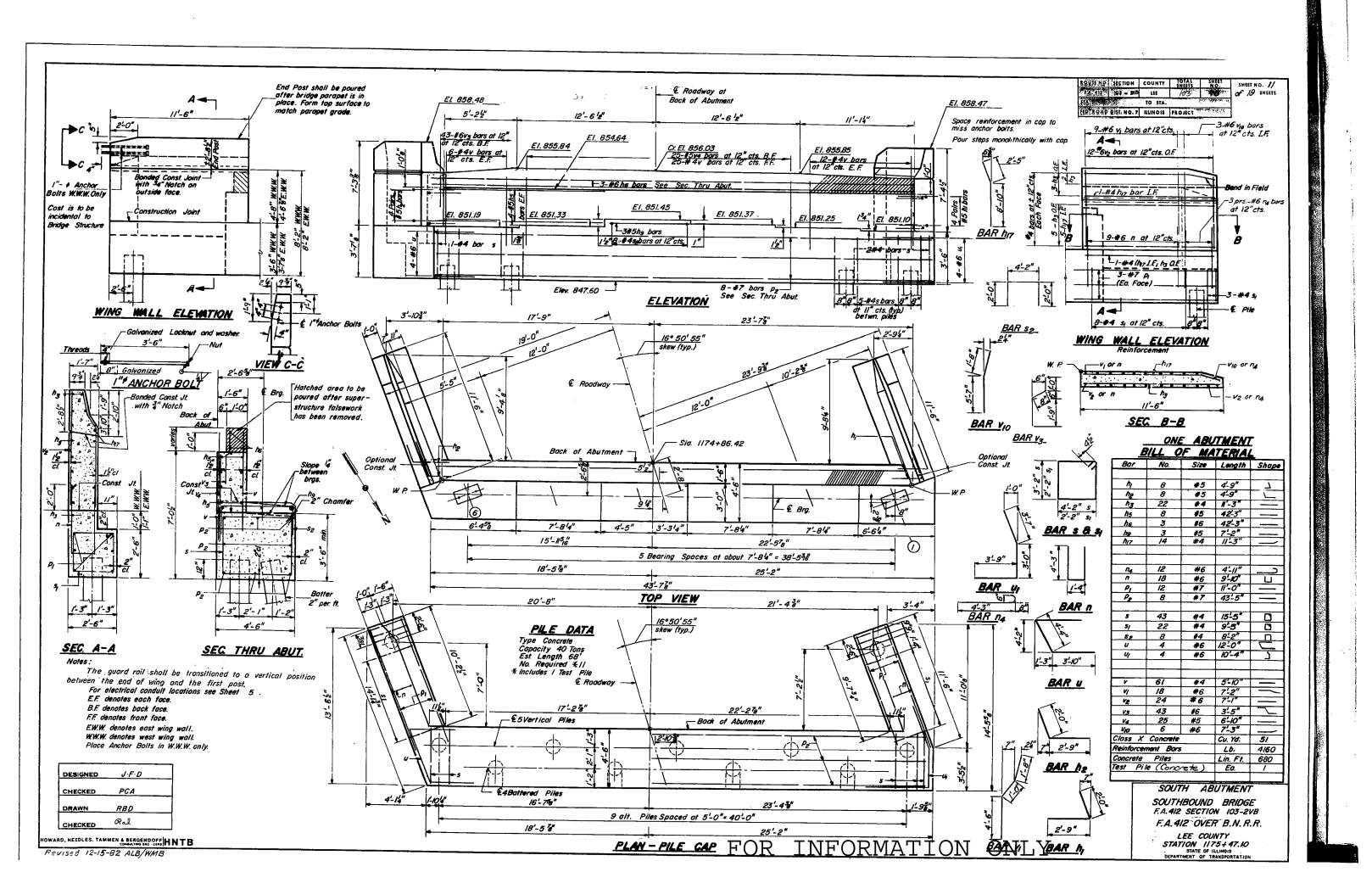
F.A.412 SECTION 103-2VB F.A.412 OVER B.N.R.R. Fill R & x 112" x 2'-0" LEE COUNTY

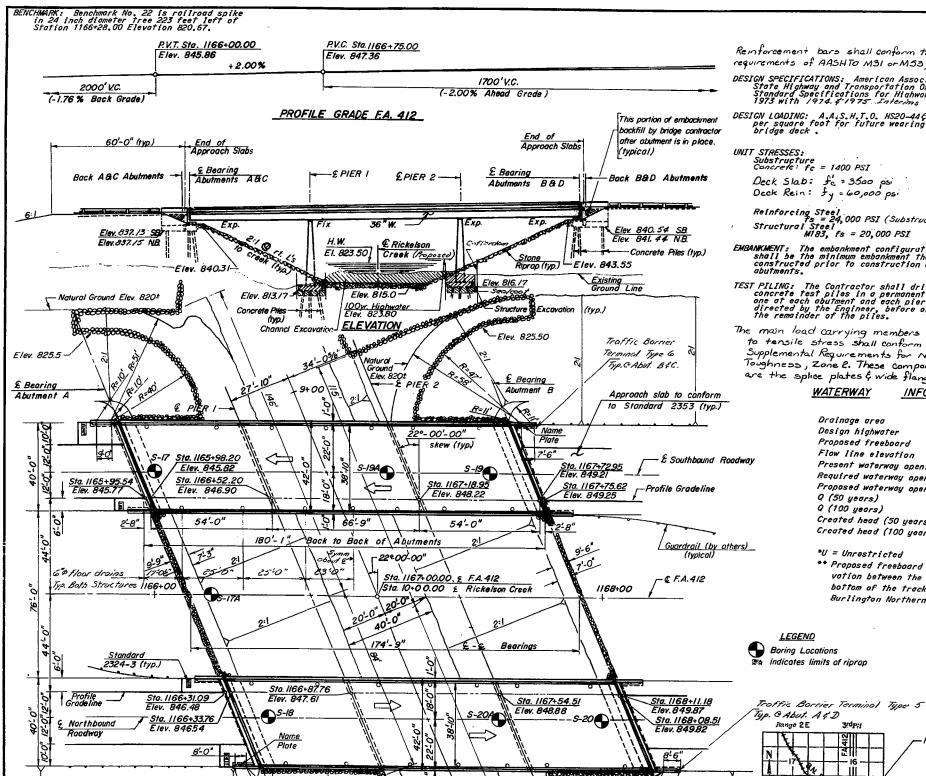
STATION 1/75+47.10

STRUCTURAL STEEL DETAILS

DETAIL







11+00

Elev. 825.50

€ Bearing

PLAN

OWARD, HEEDLES, TAMMEN & BERGENDOFF HNTB

MD. LLG 1-14-76 CK. RBD 1-16-76

Reinforcement bars shall conform to the requirements of AASHTO M31 or M53, Gr. 60

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials Standard Specifications for Highway Bridges, 1973 with 1974 \$1975 Laterims

DESIGN LOADING: A.A.S.H.T.O. HS20-44 \$25 pounds per square foot for future wearing surface on bridge deck.

Substructure Concrete: fc = 1400 PSI

Deck Slab: fc = 3500 psi Deck Rein: fy = 60,000 ps.

Reinforcing Steel fs = 24,000 PSI (Substructure) Structural Steel M183, fs = 20,000 PSI

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

TEST PILING: The Contractor shall drive eight concrete test piles in a permanent location, one at each abutment and each pier as directed by the Engineer, before ordering the remainder of the piles.

The main load carrying members subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness , Zone 2. These components are the splice plates & wide flange bms. WATERWAY

Drainage area

Q (50 years)

Q (100 years)

Design highwater

Proposed freeboard

Flow line elevation

Present waterway opening

Required waterway opening

Proposed waterway opening

Created head (50 years)

*U = Unrestricted

Created head (100 years)

GENERAL NOTES

CONCRETE PILING: Concrete piles at all abut-ments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifica-

REINFORCING STEEL: Dimensions shown on the plans from the reinforcing steel to outside edge of concrete are all clear dimensions.

All bar dimensions are out to out.

Expansion joint angles and attached bors shall be shop pointed with two coats of bosic lead silico chromate paint.

PAINTING: The basic lead silico chromate paint system shall be used for shap and field painting of Structural Steel. Except where otherwise noted.

FIELD MELDING: 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.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

ROUTE NO SI	CHOP	COUNTY	SHEETS	SHIEL	SHEET NO /
FA 412 10	11 - 25	166	203	43	of 17 SHEETS
STA.		TO STA			
FED. ROAD DIS	1. NO. 7	ILLINOIS	PROJECT		

FIELD CONNECTIONS: Fosteners shall be high strength bolts. Bolts ;" diameter, open holes "" diameter, unless otherwise noted.

STRUCTURAL STEEL: Structural steel for beams, beam splice plates, beam splice fill plates, all diaphragms, bearings, gusset plates, expansion faint angles, and attached bars shall conform to A.A.S.H.T.O. designation MIBS. Diaphragms shall be normal to the profile grade line.

Calculated weight of structural steel = 382,900 pounds.

ANCHOR BOLTS: Anchor bolts for bearing devices shall be set before bolting diaphragms over

All contact surfaces of joints for diaphragms, shall be free of paint or lacquer:

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

ITEM	UNITS	Substructure	Superstructure	TOTAL
Reinforcement Bors (EpoxyC+d)	Pounds	0	69,780	69,780
Structure Excavation	Cu. Yd.	384	0	384
Protective Coat	Sq. Yd.	0	1848	1848
Class X Concrete	Cu. Yd.	206	445	65/
Preformed Joint Seal (22")	Lin. Ft.	0	9/	91.
Preformed Joint Seal. (4")	Lin. Ft.	0	91.	91
Reinforcement Bars	Pounds	74,710	41,760	116,470
Structural Steel	Lump Sum	0	0.36	0.36
Floor Drains	· Each	0	28	28
Test Piles (Conc.)	Each	8	0	8
Concrete Piles	Lin. Ft.	4658	0	4658
Class A Concrete	Cu. Yd.	617	Ö	617
Name Plates	Each	0	2	2
Channel Excavation	Cu. Yd	5183	0	5/83
offerdom Excavation	Cu. Yds.	703		703
Sealcoat Concrete	Cu. Yds.	212	0	272
Cofferdom	Each	4	0	4

Notes:
Remove clayey materials to top of sand of all 4 abutments - full depth to 4.5'
(Elevation 816.5) at South Abutment (SB), 5.5' (Elevation 815.4) at South Abutment (NB), 4.5' (Elevation 815.9) at North Abutment (NB), 4.5' (Elevation 816.9) at North Abutment (NB) and 5.0' (Elevation 817.0) at North Abutment (NB), - between the following limits: (a) outer 4 point of end slopes and 10' behind back of abutments (or to merge with removal under roadways) and (b) between mid-points of side slopes. Replace with P.G.E. to 2'-0" above water level, if any, in excavation at time of replacement, and above that level, with suitable earth embankment. (See Special Provisions)

for Riprap quantities, see Highway Plans.





GENERAL PLAN & ELEVATION F.A. 412 SECTION 103 - 28

F.A.412 OVER RICKELSON CREEK LEE COUNTY STATION 1167+00.00 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

<u>LEGEND</u> Boring Locations a indicates limits of riprap

Typ. @ Abut. A & D Proposed Structure

СН2 PERRY BO LOCATION SKETCH

INFORMATION

** Proposed freeboard is the difference in ele-

vation between the design high water and the

bottom of the track ballast of the adjacent

Burlington Northern Railroad.

16.17 Sq. Mi.

823.50 Feet

814.92 Feet

U*

324

480

2397

2876

4.00**Feet

Sq. Ft.

Sq. Ft.

Sq. Ft.

cfs

cfs

0.79 Feet

1.00 Feet

NAME PLATE (See Standard 2113) * Structure number to be supplied by the District.

* STO. NO LOADING HS20

STATION 1167+00.00

F.A. PROJ. PD-412-4(36)

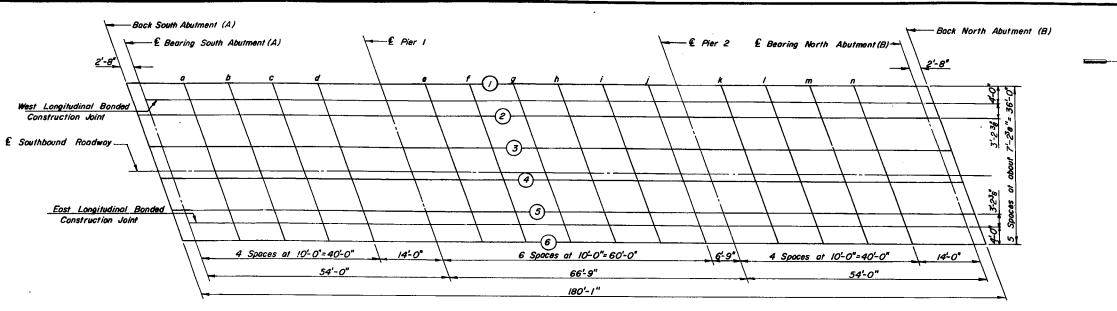
BUILT 19 BY

STATE OF ILLINOIS

.A. RT. 412 SEC. 103-28

I hereby certify that this plan and specification was prepared by me or under my direct personal supervision and that I am a duly registered Structural Engineer under the laws of the State of Illinois.

FOR INFORMATION ONLY



STA.	TO STA.	
FED. ROAD DIST. NO.	7 KLINOIS	PROJECT

| ROUTE NO. SECTION | COUNTY | TOTAL SHEET NO. 2 | F.A. 412 | 103 - 28 | LEE | 203 | 44 | Of 17 SHEET NO. 2 | STA. | TO STA.

GIRDER /

Location	STATIJA	GARSET FT.	* * * ELEVAT	ADJUSTED	DEFLECTION INCHES
Back South Abutment	(A) 1165+62.60	-2×. v 13	645.223	845,223	Ø. ÷
Bearing South Abutment	(A) 1165+85.27	-20.333	645.276	645 . 276	ن. ب
g	1165+95.27	-20.000	645.474	645.493	⊌. <u>223</u>
Ь	1166+95.27	-20.023	645.674	845.702	ø.335
c	1166+15.27	-20.073	845.674	845.679	Ø.298
đ	1166+25.27	-20.300	74 ن. 6÷8	845.687	₩ . I 55
€ Pier I	1166+39.27	-20.223	846.354	846.354	ø, 3
e	1166+49.27	-20.300	546.554	846.564	Ø. Ø74
f	1166+59.27	-20.000	846.754	845.772	¥.218
g h	1100+59.27	-20.300	546.954	840.980	₩.313
h	1166+79.27	-20.300	847.154	847.178	9.293
i	1156+89.27	-20.200	847.352	847.366	0.171
1	1166+99.27	-20.000	047.547	.647.55W	9.936
€ Pier 2	1167+25.42	-20.,,30	847.078	847.678	0. 0
k	1167+16.02	-20.200	a47.369	647.877	6.093
/	1107+26.42	-20.::00	648.058	848.279	w.248
m	1167+36.42	-20.020	643.245	843.273	6.338
n	1167+46.02	-25.€33	648.430	843.453	€.286
& Bearing North Abutment	167+60.22	-28.303	548.034	848.684	ย.ช
Back North Abutment((9) 1157+62.69	-20.000	545.732	845.732	u.3

WEST LONGITUDINAL BONDED CONSTR. JOINT

PLAN

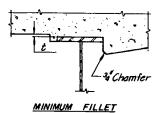
				771. 007777
STATIJA	CARSEY AT.	* * * ELSVAT	Iu.: * * * ADJUSTED	DEFLECTION INCHES
1165+86.89	قىدى. 15.	الأق.645	845.391	٠.ن
1165+96.39	-15.00	c45.59a	845.608	ນ.223
1166+36.65	-16.600	845.79J	845.617	0.335
1166+16-65	-10.000	345.990	645.014	V.298
1166+26.09	-16.000	640.190	646.202	
1100.20,09	-10.020	640.190	040,202	რ . 155
1166+40.39	-16.500	846.47⊅	846.470	3.0
1166+50.59	-16.500	846.67₽	646.676	0.374
1166+60.69	-10.000	846.874	646.668	0.218
1166+70.69	ئندن 16.	847.270	E47.996	Ø.313
1166+84.69	-16.030	847.269	847.294	₩.293
1166+94.39	-16.020	647.457	847.461	9.171
1167+20.65	-16.000	847.662	847.665	
	10.000	047.002	047.003	0.∂36
1167+27.54	-15.000	847.792	847.792	0.2
1167+17,64	-16.000	847.463	647.991	2.093
1167+27.64	-16. Just	648.172	848.193	₩-24B
1107+37.64	-10.000	648.358	348.387	Ø.338
1167+47.54	-16.300	643.542	843.566	Ø.286
	10.000	040.042	040.500	200ء
1167+61.64	-15,000	548.796	848.796	o.3
				- 1

GIRDER 2

		NDLN Z		
KOLTATE	GFPSET FT.	* # * ELSVAT THEORETICAL		OEFLECTION
1105+65.51	-12.8u3	845.431	845.431	0.3
1165+68.18	-12.800	845.483	845.463	0.0
1105+98.16	-12.800	845.682	845.701	0,223
1166+28.18	-12.822	845.832	945.91	0.335
1106+18.18	لهه 12.8-	846.482	840.147	0.298
1166+23.18	-12.830	846.282	846.295	Ø. I 55
1166+42.18	-12.803	846.562	846.562	₩. Δ
1166+52.18	-12.89J	846,762	846.768	₩. J74
1166+62.18	-12.800	846.962	846.989	₩.218
1166+72.18	-12.800	847.162	847.188	0.313
1166+82.18	-12.8/1/	847.361	847.386	Ø.293
1166+92.18	-12.800	847.558	847.573	0.171
1167+42.18	-12.8.33	847.753	847.756	Ø, 236
1167+08.93	-12,8%0	847.683	847.863	<i>ن</i> . ص
1167+13.93	-12.80a	848.574	844,282	6.493
1167+28.93	-12.893	648.263	o48.283	Ø.248
1167+38.93	-12.8	648.449	843.477	ย. 338
1167+48.93	-12.699	848.633	843.656	0.286
1167+62.43	-12.833	845.686	840.800	6.3
1167+65.60	-12.8.4	843.734	643.934	الد رنع

GIRDER 3

STATION	OFFSET FT.	* * * ELEVAT LASITERDEHT		DEFLECTION INCHES	Location
1105+83.42	ند6.6-	845.624	845.664	v. a	Back South Abutment(A)
1165+91.09	-5.604	845.657	845.657	0.0	& Bearing South Abutment(A
1166+01.09 1166+11.09 1166+21.09	-5.600 -5.600 -5.600	845.857 846.057 846.257	845.875 846.085 845.231	0.223 0.335 0.298	8 6
1166+31,49	-5.640 -5.640	846.457 846.737	846.479 846.737	0.155 0.0	d € Pier /
1166+55.49 1166+65.49 1166+75.49 1166+85.49	-5.600 -5.600 -5.600 -5.600	846.937 847.137 847.337 847.535 847.732	845.943 847.155 847.363 847.560 847.746	0.218 0.313 0.293	• • • • • • • • • • • • • • • • • • • •
1167+65.39 1167+11.84	د.6.6- دد6.6-		847.929 843.656		£ Pier 2
1167+21.34 · 1167+31.34 1167+41.34 1167+51.54	-5.6.3 -5.6.3 -5.6.3	843.434	843.254 845.454 843.647 843.626	0.24õ v.338	k I m n
1167+65.84 1167+63.51	-5.600 -5.600	•	847.655 847.102		€ Bearing North Abutment(8) Back North Abutment(8)



t La Chomfer is Munimum

MAXIMUM FILLET

Chamfer numum Sout

4 Spaces @ 13-6"=54-0"

4 Spaces @ 13-6"=54-0"

4 Spaces @ 13-6"=54-0"

E Bearing
South Abutment(4)

E Pier 1

€ Bearing North Abutment(B) Note: All theoretical and adjusted elevations in the lop of slob elevation tobles

must be increased by .125 ft.

"Theoretical Elevations" are at top of concrete slab.

O denotes girder number.

Dead Load Deflection Diagram

To determine t: elevations of the top florges of girders shall be taken at the locations shown. These elevations subtracted from the "Adjusted Elevations" shown in the tables minus slob thickness, equals the fillet heights t above top flanges of girders.

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown obove.

FOR INFORMATION ONLY

TOP OF SLAB ELEVATIONS
SOUTHBOUND BRIDGE
FA.412 SECTION 103-28
F.A.412 OVER RICKELSON CREEK

LEE COUNTY
STATION 1167+00.00
STATE OF BLINGS
PEPARIMENT OF TRANSPORTATION

HOWARD, HEEDLES, TAMMEN & BERGENDOFF H NTB

MD. Ral 1-7-76 CK. W.J.B. 1-12-76

FILLET HEIGHTS

POUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO 3
F.A. 412	103 - 3 <u>B</u>	LEE	203	45	of 17 SHEET
STA.		TO STA			i
/19. 10AD	BIST NO. 7	RIMOIS	PROJET		

GIRDER 4

			GII	ULI T		
Location		STATIO.	OFFSET	* * * ELEVAT THEORETICAL		DEFLECTION INCHES
Back South	Abutment(A	1105+91.33	1.001	645.724	645.724	5.2
Bearing South	Abutmenté	V 165+94.⊌2	1.660	845.777	845.777	3.5
	0	166+64.00	0د6.1	845.977	845.996	S.223
	b	1166+14,56	1.600	846.177	846.245	6.335
	c	1166+24.00	1.600	846.377	846.442	0.298
	ď	1166+34.00	1.600	840.577	845.590	3.155
٤	Pier 1	1166+48.20	1.630	846.657	845.657	نه و ن
	e	1166+58.99	1.600	847. 257	c÷7.453	74 ن. ن
	f	1166+68.00	1.699	847.257	847.275	2.218
	2	1166+78.00	1.603	847.457	547.483	v.313
	Ž	1166+88.20	1.604	647.655	847.680	. 293
	,	1166+98.40	1.6.54	647.651	547.865	£.171
	1	1167+03.00	1.689	348.244	845.047	36 36
€	Pier 2	1167+14.75	1.600	848.174	848.174	ند. ن
	k	1167+24.75	1.603	648.363	648.371	93 د. د
	ï	1167+34.75	1.653	848.55 <i>0</i>	843.571	246
	m	1167+44.75	1.600	848.735	648.763	338 . س
	n	1167+54.75	1.633	848,917	848.941	⊳.286
E Bearing North	Abutmenti	1167+68.75	1.698	849.169	849.169	٠ نه.٠٠
Book North	Musiman t (5)	1167+71.42	1.693	849.216	849.216	ن ن

GIRDER 5

STATION	OFFSET FT.	* * * ELEVATI THEORETICAL	ADJUSTED	EFECTION ENDRES
		T.I.LONZITONE	N_JC31E3	1
1165+94.23	ندی۔8	845.679	845.67	2.4
1165+96.50	8.023	δ45.723	ċ45 . 723	10 . <i>d</i>
1166+26.95	دەۋ.ق		545,942	₩.223
1166+15. 70	نده.8	546.123	646.151	335. ط
1166+26.90	ىنىن 6.8	846.323	645.348	298. ك
1166+36.70	8.530	646.523	845.535	₽.155
1166+50,90	8.833	640.833	845.883	i5.3
1166+64.94	8.5.3	547.003	647.009	0.374
1!ác+7J.yú	8.6	647.233	647.221	218. تا
1166+80.96	8.8	847.403	647.429	313.0
1166+90.95	نسخ. څ	847.6 <i>00</i>	847,624	£.293
1167+60.50	8.6.00	847.795	€47.809	Ø.171
1167+10.96	دە≓.8	647.988	847.991	ø. 036
1167+17.65	8.8	848.117	848.117	9.9
1167+27.65	5.6.0	848.305	645.313	0.393
1167+37,65	8.4.3	548.492	845.512	Ø.248
1167+47.55	8.5.0	648.676	843.744	Ø.338
1167+57.65	8.000	848.658	643.881	2.286
1167+71.65	دننۍ . 8	849.148	849.148	٥.٥
1167+74-32	8.0.0	849,155	649.155	6.3

EAST LONGITUDINAL BONDED CONSTR. JOINT

STATION-	OFFSET FT.	* * * ELEVAT		DEFLECTION NUCHES
1165+98.28	12.203	645.699	845.699	ن.ن
1166+08.20	12.033	845.899	845.918	
1166+18.20	12.003	846.099	846.127	₩.33 5
1166+23.20	12.034	846.299	846.324	
1166+38.20	12.033	846.499	846.512	U. 155
1166+52.20	12.000	846.779	846.779	۵,۵
1166+62.20	12.334	546,979	846.985	Ø. Ø74
1166+72.20	12.034		847.197	
1166+82.20	12.660		847.494	
1166+92.20	12.624		847.64	
1167+62,20	12.650			
1167+12.20	12.000	847.463	847.966	0.030
1167+18.95	12.000	548.091	843.091	9.3
1167+28.95	12.600	848.282	848.287	0.393
1167+38.95	12.333		643.486	
1167+45.75	12.003		849.678	
1167+58.95	12.000	848.831	848.855	9.28
1167+72.95	12.000	849. 481	849.E61	0.0

CIRDER 6

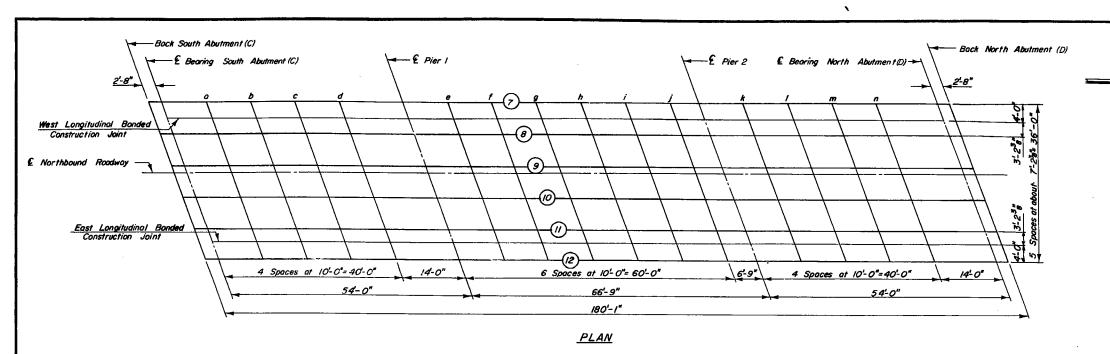
		6	GIRDER		
Location	JEALECTION INCHES	CETEULLA	* * * ELEVAT	OFFSET FT.	STATION
Back South Abutment (A)	. .3	£45.5y5	645 . 5≯5	16.940	1165+97.14
E Bearing South Abutment(A)		645.648	645.648	16.860	1165+99.81
a b c	223 335 298	645.557 645.276 645.273	846.248	16.222 16.222 16.222	1166+69.81 1166+19.81 1166+29.81
d € Pier I	د.155 د.ن	645 . 401 645 . 728		16.203	1166+39.81
e /	218.ء 313.ء	645.934 647.146 847.353	647.128 647.327	16.034 16.093 16.084	1166+63.81 1166+73.81 1166+83.81
<i>h i</i>	293 171 36	647.548 847.733 647.913	847.718	16.839 16.839 16.839	1166+93.81 1167+03.81 1167+13.81
£ Pier 2	ث.ن	846.239	648.039	16.000	1167+29.56
k	248	643.235 643.433 643.624 643.641	543.413 546.596	16.363 6.363 6.663 6663 6663	1167+3J.56 1167+4U.56 1167+5J.56 1167+6J.56
€ Bearing North Abutment (6)	۵.۵	649.026	849.626	16.300	1167+74.56
Back North Abutment (B)	3.3	849.074	849.674	16.000	1167+77.23

Notes:
For grid location and other information, see Sheet 2.

Note: All theoretical and adjusted elevations in the top of slab elevation tables must be increased by .125 ft.

TOP OF SLAB ELEVATIONS SOUTHBOUND BRIDGE F.A. 412 SECTION 103-2B F.A. 412 OVER RICKELSON CREEK

LEE COUNTY
STATION 1/67+00.00
STATION 1/67+00.00
PUPARIMENT OF TRANSPORTATION



OUTE NO SECTION COUNTY SHEETS NO 6 A 412 103 - 2B LEE 203 46 10 STA FED ROAD DIST NO 7 HLINOIS PROJECT

Note: All theoretical and adjusted elevations in the top of slob elevation tubles must be increased by 125 ft.

GIRDER 7

Location		STATION	OFFSET FT.	* * * ELEVAT THEORETICAL	* * * MOI CETELLGA	DEFLECTION INCHES
Back South Ab	utment(C)	1166+29.48	-16.800	646.241	846.241	ث. ت
Bearing South A	butment(C)	1166+32,15	-16.200	645.275	645.2 √ 5 °	ن.ن
		1166+42.15	-16.630	c46.4y5	643,513	Ø.223
		1166+52.15	-16.303	046.6 7 5	645.723	~.335
		1166+62.15	-16.235	84 6. 095	845.920	-,298
	ď	1166+72.15	-16.000	847.295	847.138	4.155
£ A	Pier I	1166+86.15	-16.665	847.373	847.373	5.0
	е	1166+96.15	-16.003	647.569	847.576	74 ناء ب
	f	1167+66.15	-16.000	647.753	647.761	~.218
	g	1167+16.15	-16.633	847.555	847.991	w.313
	h	1167+26.15	-16.333	646.144	848,168	2،293
	i	1167+35.15	-16.6.13	64ö.331	643.345	v. 171
	j	1167+46.15	-10.688	648.515	643.518	·36
€ A	ier 2	1167+52.90	-16.634	848.638	643.638	. 6.0
	k	1167+62.90	-16.500	848.619	848.827	3ون.ن
	1	1167+72.90	-16.600	848.447	64y.218	248
	m	1167+62.90	-16.620	649.173	64x.201	v. 336
	n	1167+92.90	-16.600	849.345	647.374	266.
€ Bearing North A	butment(Di	1168+06.90	-16.688	649.585	047.565	ن.ن
Back North Ab	utmen t (D)	1168+09-57	-16.234	649.634	649.630	ن ـ ن

WEST LONGITUDINAL BONDED CONSTR. JOINT

	-12.033			
	-12 434			
1166+33.76	12.000	د45.41 تا	843.416	3.3
1166+43.76	-12.000	540.612	c45.629	223
1166+53.76	~12.ผมง	645.513	ċ÷ċ.&3ċ	v.335
1166+63.76	-12.500	ك ان. c47	647. 63 5	248
1166+73.76	-12.200	847.210	647.223	155ء م
1166+87.76	-12.030	3 47. 486	647.456	0.0
1166+97.76	لايون. 12-	ē47.684	847.650	2.374
1167+07.76	فدن. 12.	647.67ö	647.6y6	2.218
1167+17.76	-12.030	848.269	943.295	2.313
1167+27.76	-12.000	648.257	643.252	293.ك
1167+37.76	-12.003	548.444	643.45B	2.171
1107+47.76	-12.000	848.028	643.631	3.036
1167+54.51	-12.000	643.751	845.751	٥.٥
1167+64.51	-12.063	848.931	845.939	3 نون د
1167+74.51	-12.UJJ	549.124	ć4×.129	J.248
1107+84.51	درن . 12.	549.204	547.312	4.338
1167+94.51	-12.000	849.457	64,481	~.286
1168+98.51	-12.000	649.696	=44.646	۵. ۵

GIRDER 8

STATION	G-FSET FT.	* * * ELEVAT THEORETICAL		DEFLECTION INCHES
1166+32.38	-8.803	646.433	ē46.433	ພູຟ
1106+35.05	-5.824	646.485	c∸a.4ā¢	2.4
1100+45.05	-8.803	645.686	a-0.705	223
1166+55.35	-ĉ.8 <i>30</i>	845.886	c45.914	
1160+65.05	-3.823		647.111	
1166+75.35	-3.800	647 . 256	647 . 299	. 155 و
5ن، لا8+66 11	-8.84)	647.564	t47.564	2.0
1100+99.05	-8.000	647.75Y	ċ47 . 7ċ5	₩. £74
1167+67.35	-8.830	847.y52	£47 .97 1	218. ت
1167+19.35	-8.801	548.143	848.169	313.ن
1167+29.25	-8.800	848.332	648.356	₩.2¥3
1167+39.05	-6.800	648.518	843.532	171.⊍
1167+49.05	-8.500	848.702	643.705	4.436
1167+55.64	-8.80	843.824	845.824	6.9
1167+65.80	-5.800	849.004	947.612	Ø.J93
1167+75.34	-8.600		247.242	ø.248
1167+85.60	-6.800	849.357	849.365	Ð.338
1167+55.64	-2.000	049.529	849.553	ย.286
1166+69.50	-6.820	649.767	547.767	6.9
1166+12.47	-8.800	849.812	649.812	6.9

GIRDER 9

STATIU:	OFFSET FT.	* * * ELEVAT THEURETICAL		DEFLECTION INCHES	Location
				,	Back South Abutment (C)
1166+35.29	-1.033	846.0.3	645.643	u.4	Back South Adulment (C)
1100+37.46	-1.633	846.057.	5∸5.557	ن.ن	€ Bearing South Abutment(C)
1100+47.96	-1.600	640.657	5-5.5 <u>7</u> 5		ļ <i>a</i>
1166+57.96	-1.600	047.257	c-7.v54		<i>b</i>
1160+67.96	-1.633	847.257	6+7.201	29 6	6 6 6
1166+77.96	-1.638	847.456	647.469	⊌.155	"
1166+91.96	-1.600	847.733	c-7.733	٧.3	€ Pier
1167+01.96	-1.620	847. 428	647.934	₩. ∂ 74	0
1107+11.96	-1.684	848.120	849.139	₩.218	f
1167+21.96	-1.623	848.311	843 .337	313. ت	9
1167+31.96	-1.600	648.498	E43.523	4.293	j <i>h</i>
1107+41.96	-1.600	848.084	643 .69 8	0.171	<i>i</i>
1167+51.96	-1.600	848,657	643 .67 ₽	2.236	/
1167+58.71	-1.600	848.769	648.989	c.4	£ Pier 2
1167+68.71	-1.603	849.168	849.176	ø. ₫9 3	İ *
1167+78.71	-1.620	849.345	c 4 y . 3 55	6.248	/
1167+88.71	-i.6-i	849.519	54d دنځ	ພ.338	m
1167+98.71	-1.600	849.691	844.715	0.286	n
1168+12.71	-1.6±1	849.528	649.925	2.0	€ Bearing North Abutment (D)
1168+15.38	-1.643	849.973	â4y . 973	0.0	Bock North Abutment (D)

- 3 Chamfer

& Chamfer

South Abutment(C) ← € Pier 3 Dead Load Deflection Diagram

"Theoretical Elevations" are at top of concrete slab. O denotes girder number.

MINIMUM FILLET MAXIMUM FILLET

To determine t: elevations of the top flanges of girders shall be taken at the locations Shown. These elevations subtracted from the "Adjusted Elevations" shown in the tables minus slob thickness, equals the fillet heights t above top flanges of girders.

(Includes weight of concrete only.) Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown obove.

FOR INFORMATION ONLY

TOP OF SLAB ELEVATIONS NORTHBOUND BRIDGE F.A. 412 SECTION 103-28 F.A. 412 OVER RICKELSON CREEK

LEE COUNTY
STATION 1/67+00.00
STATION 1/67+00.00
STATION STATION

FILLET HEIGHTS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF HNTB Ral 1-7-76 CK.W.J.B 1-12-76

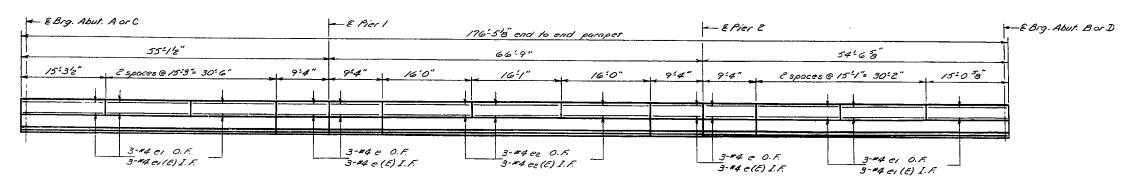
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

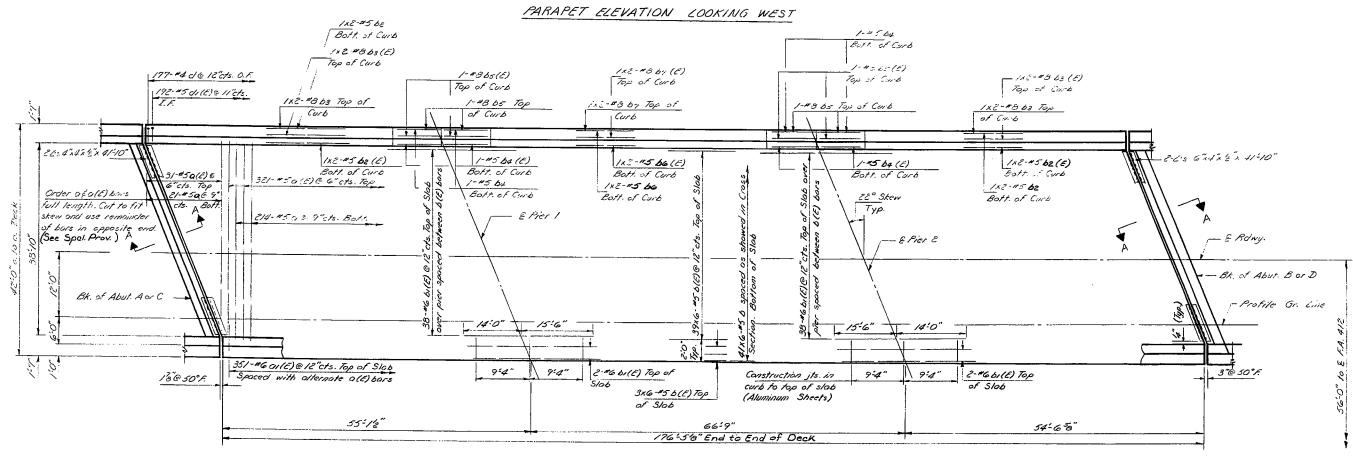


17 SHEETS



Min. Bo	r Lops
b, b(C)	1:8"
63,63(E)	2:6"
66,66(E)	1:8"
67.67(E)	2:6"
bz, bz(E)	/ ' 8"
1	





DECK PLAN South Bd. Shown (North Bd. similar except P.G.L.)

Note: Bors indicated thus COx3-#5 etc. indicates 20 lines of bors with 3 lengths per line.

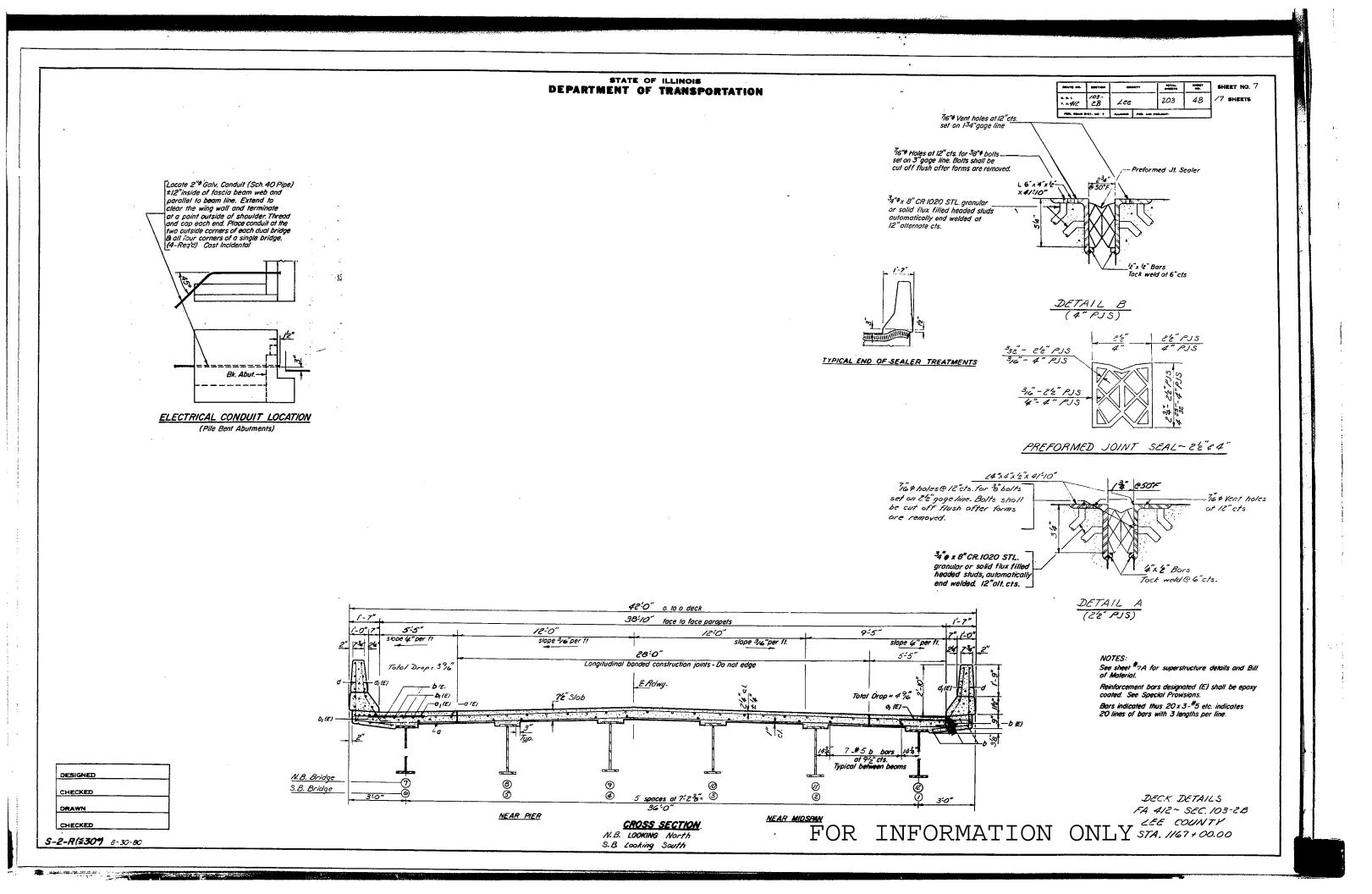
I.F. denotes inside foce O.F. denotes outside face

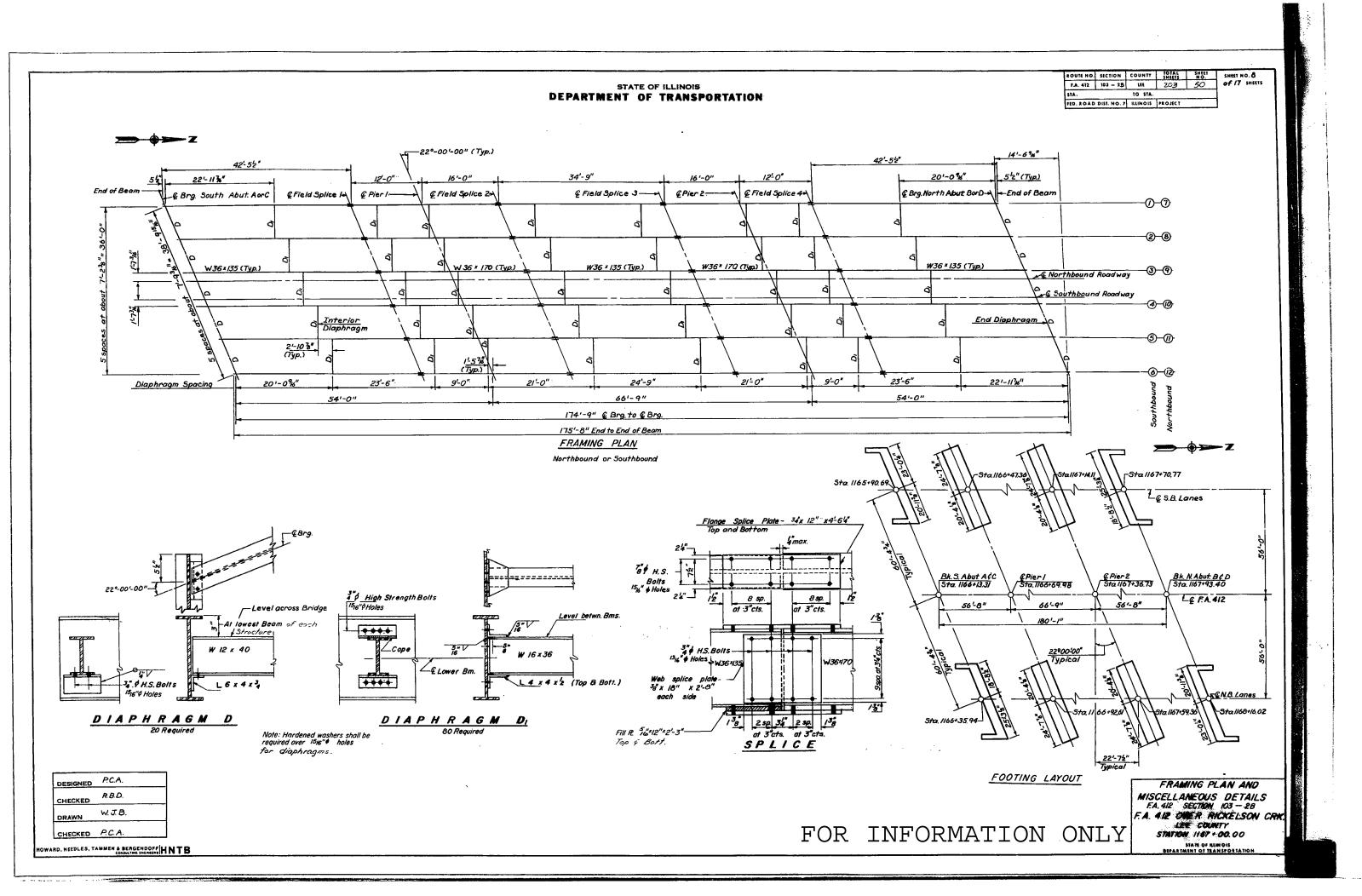
Work this sheet with sheet 747A

DECK PLAN F.A. 412 - SEC. 103-28 LEE COUNTY

FOR INFORMATION ONLY STA. 1/67+00.00

DESIGNED CHECKED CHECKED

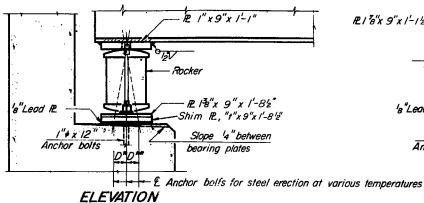


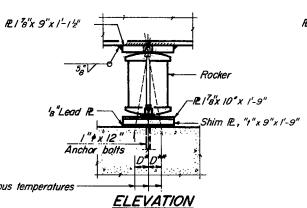


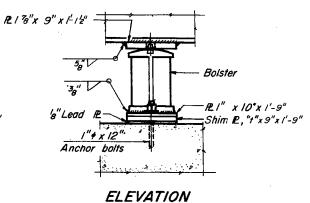


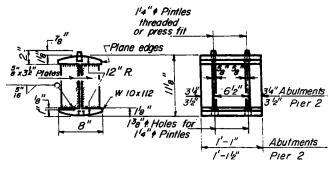
ROUTE NO. SECTION COUNTY SHEETS NO. SHEET NO. 9

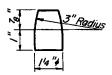
F.A. 412 103 - 28 LEE 20 51 of 17 SHEETS TO STA. FED. ROAD DIST. NO. 7 ILLINOIS PROJECT





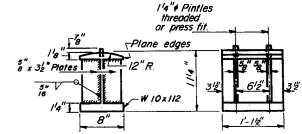




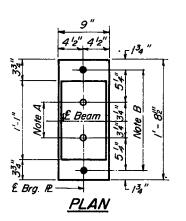


ROCKER

PINTLE

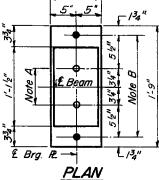


BOLSTER



AT ABUTMENTS

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



AT PIER 2

1'2" Holes for 1" anchor bolts. under nut.

AT PIER

PLAN

NOTE C

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D^* (Side of brg. away from fixed brg.) $D^*= {}^{+}$ ${}^{-}$ 8" per each tOO' of expansion for every 15° fall below the normal temp. of 50°F D**(Side of brg. toward fixed brg.)
 - D** = 's" per each IOO' 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.

INTE	RIOR GIRDER	MOMENT	TABLE
	0.4 Sp or 3	Pier	0.5 Sp 2
I (in.4)	7800	10,500	7800
Q (K/1)	1.14	1.18	1.14
MQ (IK)	220	454	188
Me (IK)	359	330	354
Imp. (Ik)	100	88	91
M total (IK)	679	872	633
fs (Ksi)	18.6	18.0	17.3

INTERIOR GIRDER REACTION TABL				
	Т	Abut.	Pier	
R₽	(R)	22.0	78.0	
RŁ	(k)	37./	47.5	
Imp.	(k)	10.3	12.7	
RTota	1(4)	69.4	/38.2	

Girder	&Brg. S. Abut.	\$F.S.14	#Pier 1	¢F.S.2	₫F.S.3	#Pier 2	₫F.S.4	&Brg.N.Abut
1	844.72	845.49	845.74	846.03	846.72	847.06	847.30	848.13
2	844.93	845,70	845.94	846, Z3	846,93	847.27	847.51	848.33
3	845.10	845,87	846.1Z	846.41	847.10	847.44	847.68	848.50
4	845.22	845, 99	846. 24	846,53	847.22	847.56	847.80	848.62
5	845.17	845. 94	846.19	846.48	847./7	847.51	847.75	848.55
6	845.09	845, 86	846.11	846.40	847.09	847.43	847. 67	848.47
7	845.74	846,51	846.75	847.03	847.69	848.0Z	848. E5	848.03
8	845.94	846,7/	846.95	847.22	847.87	848,20	848.43	849.21
9	846.11	846, 87	847.11	847.39	848.06	848.39	848.61	849.36
10	846.10	846.87	847.11	847. 38	848.03	848.36	848.59	849.36
11 -	846.04	846.81	847.05	847.33	847. 97	848, 29	848.52	849.29
12	845.95	846.72	846.96	847.23	847.88	848.20	848.42	849.19

A Top of W36x135 @ Splices

		SHIM PLATES	
	Girder	Location	"†"
S.B.	4	S. Abut.	5 ₈ "
	4	Pier I	5 ₈ "
	4	Pier 2	₹"
NB.	9	Pier 2	<i>'</i> 8"
	9	N Abut	' _R "

FOR INFORMATION ONLY

BEARING DEVICES AND DETAILS F. A. 412 SECTION 103-28 F. A.412 OVER MICKELSON CREEK LEE COUNTY STATION: 1167+00.00 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W.J.B. CHECKED DNC W.J.B.

DESIGNED

CHECKED

DNC

OWARD, NEEDLES, TAMMEN & BERGENDOFF HNTB