STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

STRUCTURE NO. 016-0052 I-57 SB OVER I-80 EB

I-57

2021 ADT = 110,300 SPEED LIMIT = 55 MPH

I-80:

2021 ADT = 106,500 SPEED LIMIT = 55 MPH

STRUCTURE NO. 016-0053 I-57 NB OVER I-80 EB

I-57:

2021 ADT = 110,300 SPEED LIMIT = 55 MPH

I-80:

 \circ

 \circ

2021 ADT = 106,500SPEED LIMIT = 55 MPH

STRUCTURE NO. 016–2026 I–57 NB OVER I–80 WB

I-57:

2021 ADT = 110,300 SPEED LIMIT = 55 MPH

I-80:

2021 ADT = 106,500 SPEED LIMIT = 55 MPH

STRUCTURE NO. 016–2027 I–57 SB OVER I–80 WB

I-57:

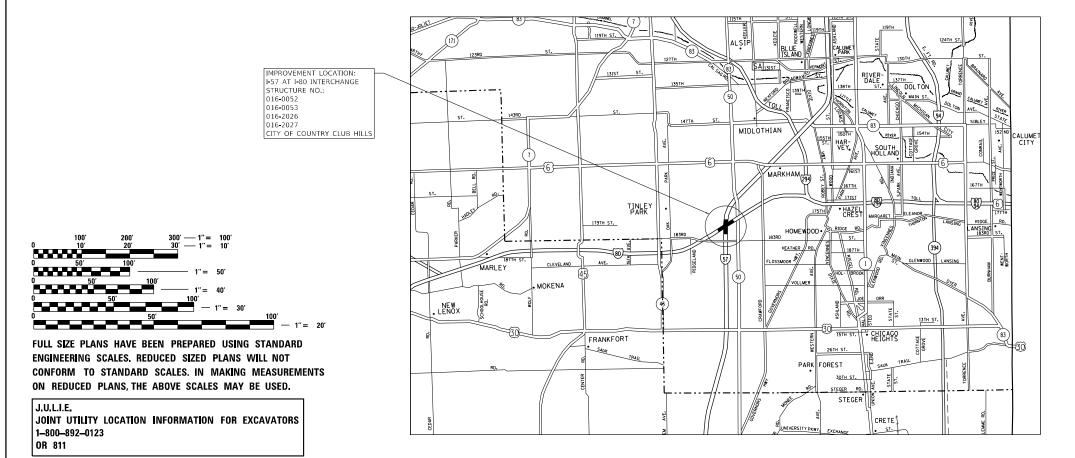
2021 ADT = 110,300 SPEED LIMIT = 55 MPH

2021 ADT = 106,500SPEED LIMIT = 55 MPH

PROPOSED HIGHWAY PLANS

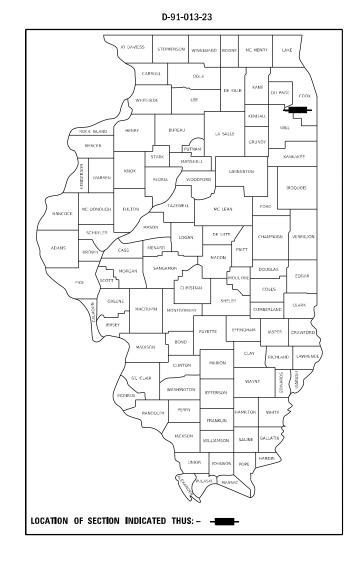
FAI ROUTE 57: I-57
AT I-80 INTERCHANGE
SECTION FAI 57 22 BP
BRIDGE PAINTING
COOK COUNTY

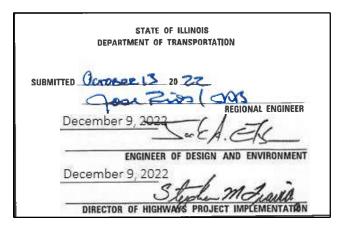
C-91-019-23



PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705–4580 PROJECT MANAGER: J. ALAIN MIDY (847) 221–3056

CONTRACT NO. 62U15





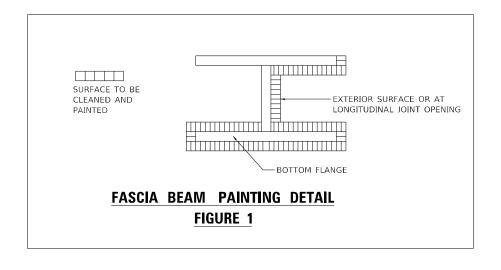
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS STATE STANDARDS

1	COVER SHEET	STANDARD NO.	DESCRIPTION
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
3	SUMMARY OF QUANTITIES	701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
4-8	EXISTING BRIDGE PLANS (SN 016-0052)	701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
9-1	2 EXISTING BRIDGE PLANS (SN 016-0053)	701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
13-	17 EXISTING BRIDGE PLANS (SN 016-2026)	701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
18-	21 EXISTING BRIDGE PLANS (SN 016-2027)	701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
22	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
23	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)	701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
24	TRAFFIC CONTROL AND PROTECTION FOR FREEWAY SHOULDER	701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
	CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701901-08	TRAFFIC CONTROL DEVICES

GENERAL PAINT NOTES

- 1 CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- 2 ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.
- 3 FOR STRUCTURES 016-0052, 016-0053, 016-2027: ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST SSPC-SP-10.
- FOR STRUCTURE 016-2026: THE EXTERIOR SURFACES AND TOP AND BOTTOM FLANGE OF THE FASCIA BEAM OUTSIDE THE DECK JOINTS FOR THE LENGTH OF THE BRIDGE (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP-10.
- ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 5FT (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SO10.
- THESE AREAS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2. 5YR 3/4.
- 6 A MINIMUM OF 2 AIR MONITOR AT EVERY LOCATION WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDIE"



GENERAL NOTES

- 1 BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF COUNTRY CLUB HILLS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 6 THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- 7 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 9 WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
- 11 THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR THE ABUTMENTS IF ELECTRICAL JUNCTIONS BOXES AND ATTACHED CONDUITS ARE PRESENT.
- 12 DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

FILE NAME: pw:\\ildot pw b

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS
GENERAL NOTES AND GENERAL PAINT NOTES

SHEET 1 OF 1 SHEETS STA. TO

F.A.I. SECTION COUNTY TOTAL SHEETS NO. 57 FAI 57 22 BP COOK 24 2 CONTRACT NO. 62U15

	SUMMARY OF QUANTITIES				CO	NSTRUCTIO	ON TYPE C	ODE		SUMMA	ARY OF QUANTITIES				CO	NSTRUCTIO	N TYPE CO	DDE	
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES 100% STATE	0047 BRIDGE 1	0047 BRIDGE 2	0047 BRIDGE 3	0047 BRIDGE 4		CODE NO		ITEM	UNIT	TOTAL QUANTITIES						
67100100	MOBILIZATION	L SUM	STATE 1	016-0052	0. 25	0. 25	016-2027												
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0. 25	0. 25	0. 25	0. 25												
x6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	18	4. 5	4. 5	4.5	4. 5												
x7011015	TRAFFIC CONTROL AND PROTECTION	L SUM	1	0. 25	0. 25	0. 25	0. 25												
	(EXPRESSWAYS)																		
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT	L SUM	1	1															
	CLEANING RESIDUES NO. 1																		
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT	L SUM	1		1														
	CLEANING RESIDUES NO. 2																		
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT	L SUM	1			1													
	CLEANING RESIDUES NO. 3																		
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT	L SUM	1				1												
	CLEANING RESIDUES NO. 4																		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1															
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1														
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1													
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1				1												
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500															
FILE NAME = pw:\Vidat-pw.bentley.com	n-PWIDDT Documents/DDT Of Fides District NProjects/DDI323:CADData/Design/DI01323:ett-\$ 0 0,00 PLOT SCALE = 100,0000 '/ In. CH	SIGNED - SAWN - ECKED - ITE -		REVISED REVISED REVISED REVISED	- - -		D		ILLINOIS RANSPORTA	ΓΙΟΝ		UMMARY OF QUANT 1 OF 1 SHEETS STA		O STA.	F.A.I. RTE. 57	SECTION FAI 57 2	2 BP	COUNTY SHI	0042 OTAL SHEET 1EETS NO. 24 3 NO. 62P42

Existing Structure: S.N. 016-0052, originally built in 1964 as a four-span continuous steel superstructure with stub abutments and three multi-column trapezoidal piers. The back to back length is $241'-6\frac{3}{4}''$ and the out-to-out width is 64'-2'' typically but varies at bridge ends. Structure is to be repaired as detailed in these plans.

FOR INFORMATION ONLY

DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

f'c = 3,500 psify = 60,000 psi

fy = 50,000 psi M223 Gr.50 & M222

fy = 36,000 psi M183

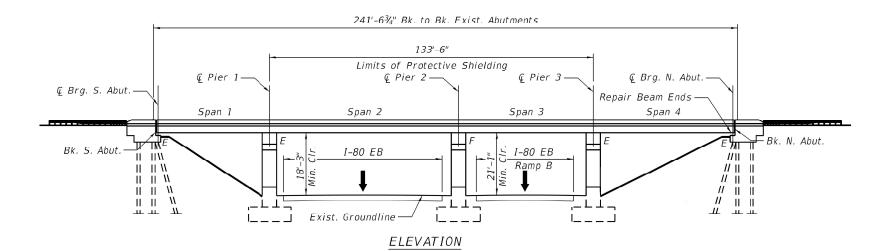
FIELD UNITS (NEW CONST.)

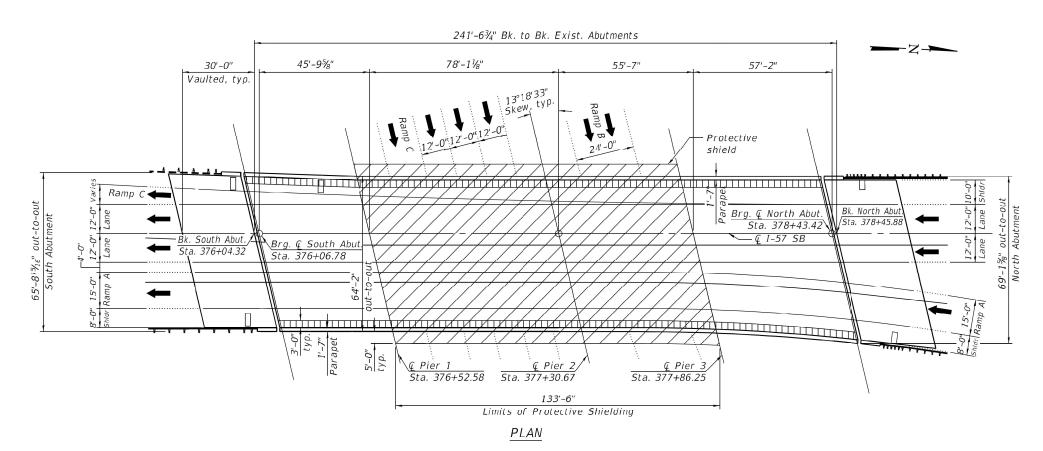
f'c = 4,000 psi (Superstructure) f'c = 3,500 psi (Substructure) fy = 60,000 psi (Reinforcement) DESIGN SPECIFICATIONS

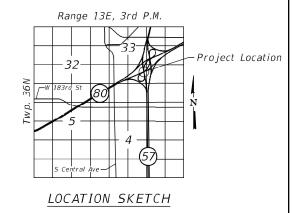
2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Existing and Proposed







 USER NAME
 = Jacob.Roth
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 100,0000 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 10/21/2022
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

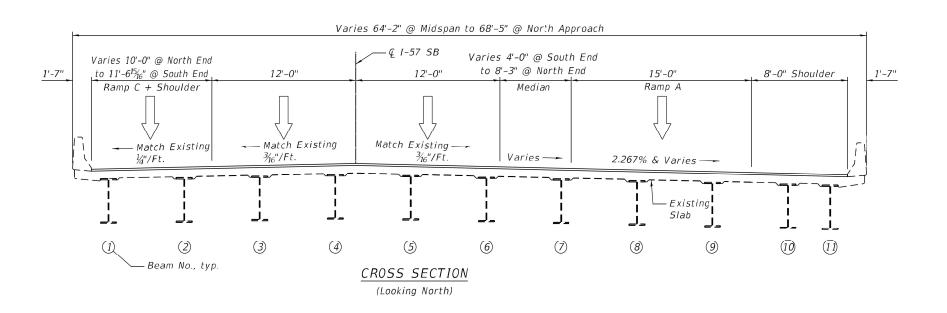
 F.A.I. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 57
 FAI 57 22 BP
 COOK
 24
 4

 CONTRACT NO. 62U15

 ILLINOIS FED. AID PROJECT

VE: pw:\\ildot.pw.bentley.com:PWIDOT\Docu



 USER NAME
 = Jacob Roth
 DESIGNED
 REVISED

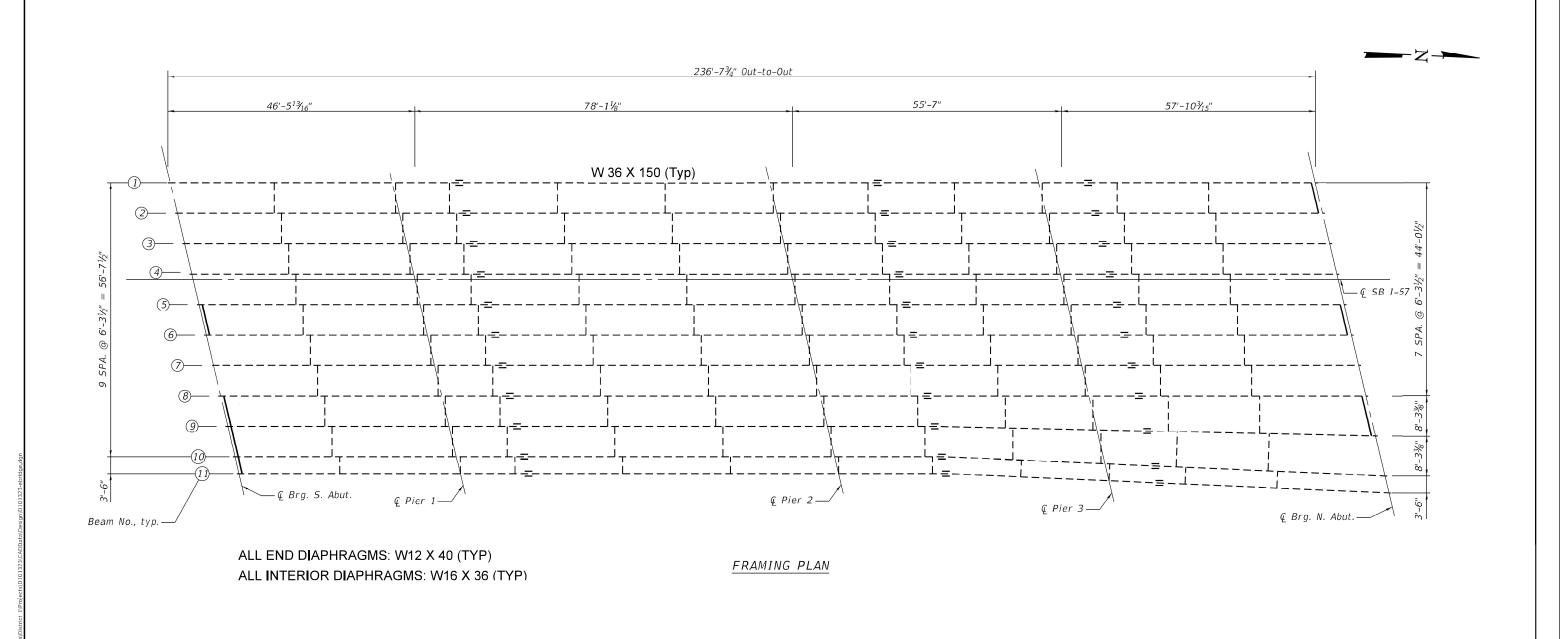
 DRAWN
 REVISED

 PLOT SCALE
 = 100,0000 / in
 CHECKED
 REVISED

 PLOT DATE
 = 10/21/2022
 DATE
 REVISED

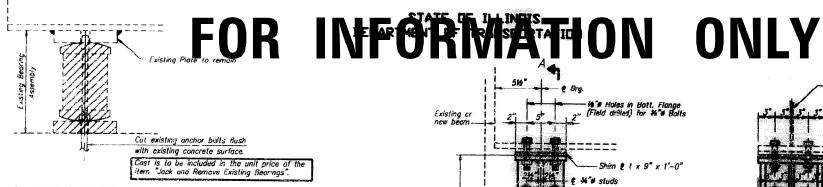
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODEL: Default



USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

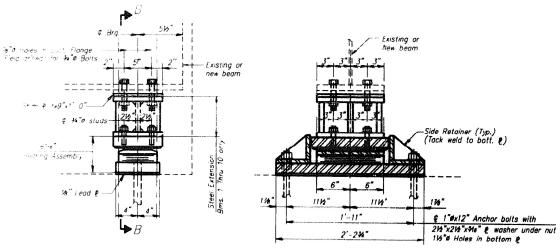
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I_57	۸т	1_20	INI	EBCHVI	ICE /C	016–0052)	57	FAI 57	22 BP		Π
1-37	Λ!	1-00	lia i	LIIUIIAI	IGE (C	010-0032/					П
SHEET	3	OF	5	SHEETS	STA	TO STA.			TELIMOIS	EED A	in.



EXISTING BEARING REMOVAL DETAIL

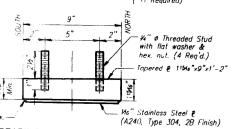
SECTION B-B

(South Abut. and North Abut.)

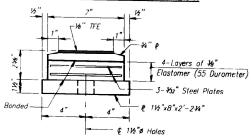


ELEVATION AT NORTH ABUT.

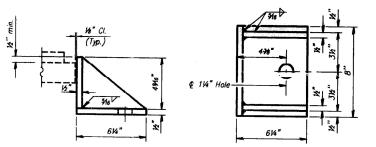
TYPE II TFE ELASTOMERIC EXP. BRG. AT NORTH ABUTMENT



TOP BEARING ASSEMBLY AT NORTH ABUT.

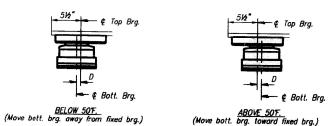


BOTTOM BEARING ASSEMBLY AT NORTH ABUT.



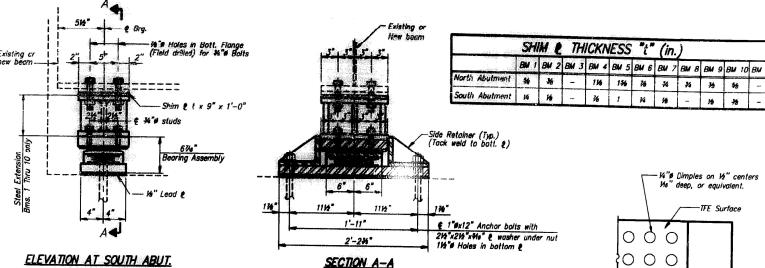
SIDE RETAINER AT NORTH ABUT.

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

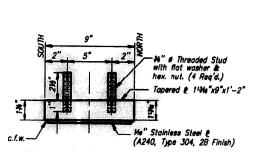


SETTING ANCHOR BOLTS AT EXP. BRG.

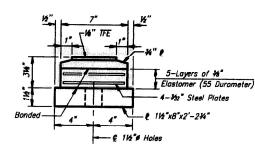
D=16" per each 100' of expansion for every 15" temp. change



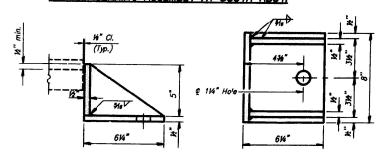
TYPE II THE ELASTOMERIC EXP. BRG. AT SOUTH ABUTMENT (11 Required)



TOP BEARING ASSEMBLY AT SOUTH ABUT.



BOTTOM BEARING ASSEMBLY AT SOUTH ABUT.



SIDE RETAINER AT SOUTH ABUT.

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

SCALE:

USEK NAME = Jacob, Koth	DESIGNED -	KEVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LOCATION 1: BEARING DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57 AT I-80 INTERCHANGE (SN 016-0052)	57	FAI 57 22 BP	COOK	24	7
1-37 AT 1-00	CONTRACT NO. 62U15				
SHEET 4 OF 5 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

000 000 PLAN-TFE SURFACE 16" TFE with dimpled surface

- ¼"ø Dimples on ½" centers

-TFE Surface

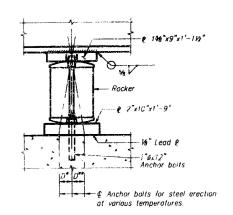
116 156 26 34 34 35

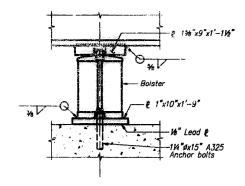
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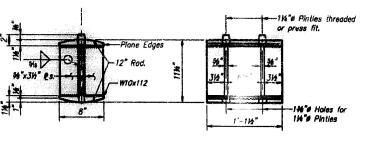
36 1 14 16

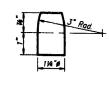
SECTION THRU TFE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



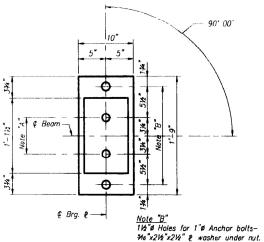




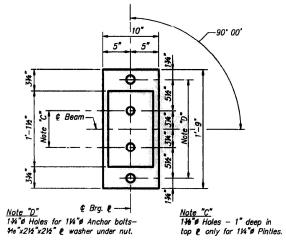


<u>PINTLE</u>

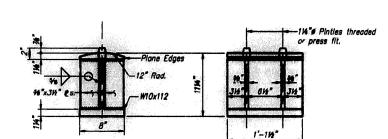
ELEVATION AT PIERS 1 & 3
(BEAM 11 ONLY)



ELEVATION AT PIER 2 (BEAM 11 ONLY)



ROCKER



BOLSTER

Note "A"
118" o Holes 1" deep
in top & for '4" o Pintles.
Thread or press fit
Pintles in boltom &

PLAN AT PIERS 1 & 3
(BEAM 11 ONLY)

PLAN AT PIER 2
(BEAM 11 ONLY)

FOR INFORMATION ONLY

USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

ı	.OCA	TION	1:	BEARIN	IG DET	TAILS	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	
I_57 A	T L	au In	ITE	BCHANG	F /SN	016-0052)	57	FAI 57	22 BP		СООК	24	8
I-3/ A	' '-	00 11	4 I L	IIOIIAIVO	IL (314	010-0032)					CONTRACT	F NO. 62	2U15
SHEET	5	OF	5	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

Existing Structure: S.N. 016-0053, originally built in 1964 as a three-span continuous steel superstructure with stub abutments and two multi-column trapezoidal piers. The back to back length is $204'-4\frac{3}{4}''$ and the out-to-out width is 43'-2" typically but varies at bridge ends. Structure is to be repaired as detailed in these

FOR INFORMATION ONLY

DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

 $f'c = 3,500 \ psi$ fy = 60,000 psi

fy = 50,000 psi M223 Gr.50 & M222

fy = 36,000 psi M183

FIELD UNITS (NEW CONST.)

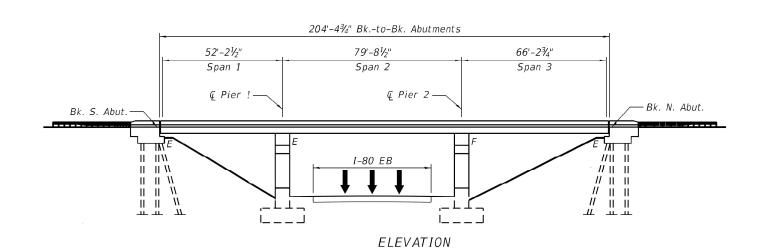
f'c = 4,000 psi (Superstructure) f'c = 3,500 psi (Substructure)fy = 60,000 psi (Reinforcement)

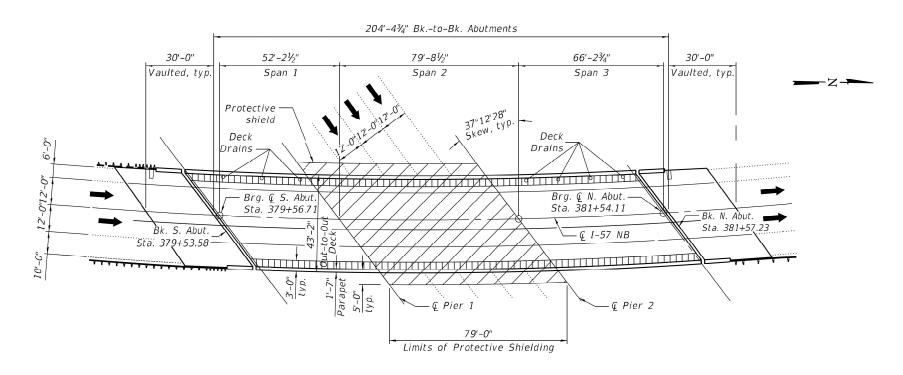
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Existing and Proposed





- Project Location

LOCATION SKETCH

Range 13E, 3rd P.M.

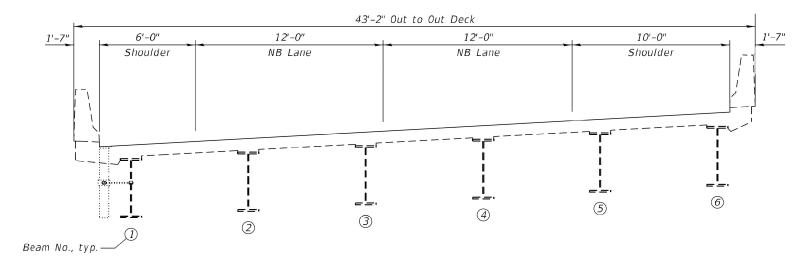
PLAN

USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						EVATION	••
						N 016-0053	5)
SHEET	1	OF	4	SHEETS	STA.		TO 5

SECTION FAI 57 22 BP COOK 24 9 CONTRACT NO. 62U15



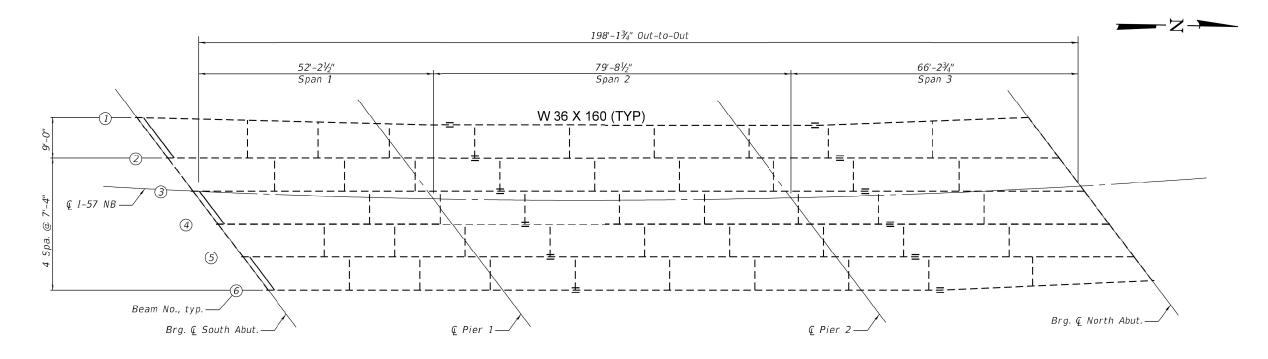
CROSS SECTION

(Looking North)

USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	l

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	LOCATION 2: CROSS SECTION						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
L-57 Λ'	57 AT I–80 INTERCHANGE (SN 016–0053)							FAI 57 22 BP	COOK	24	10
-31 A		יון טט	111	IUIIAIVU	L (SIA	010-0033)			CONTRACT	NO. 62	U15
SHEET	2	OF	4	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

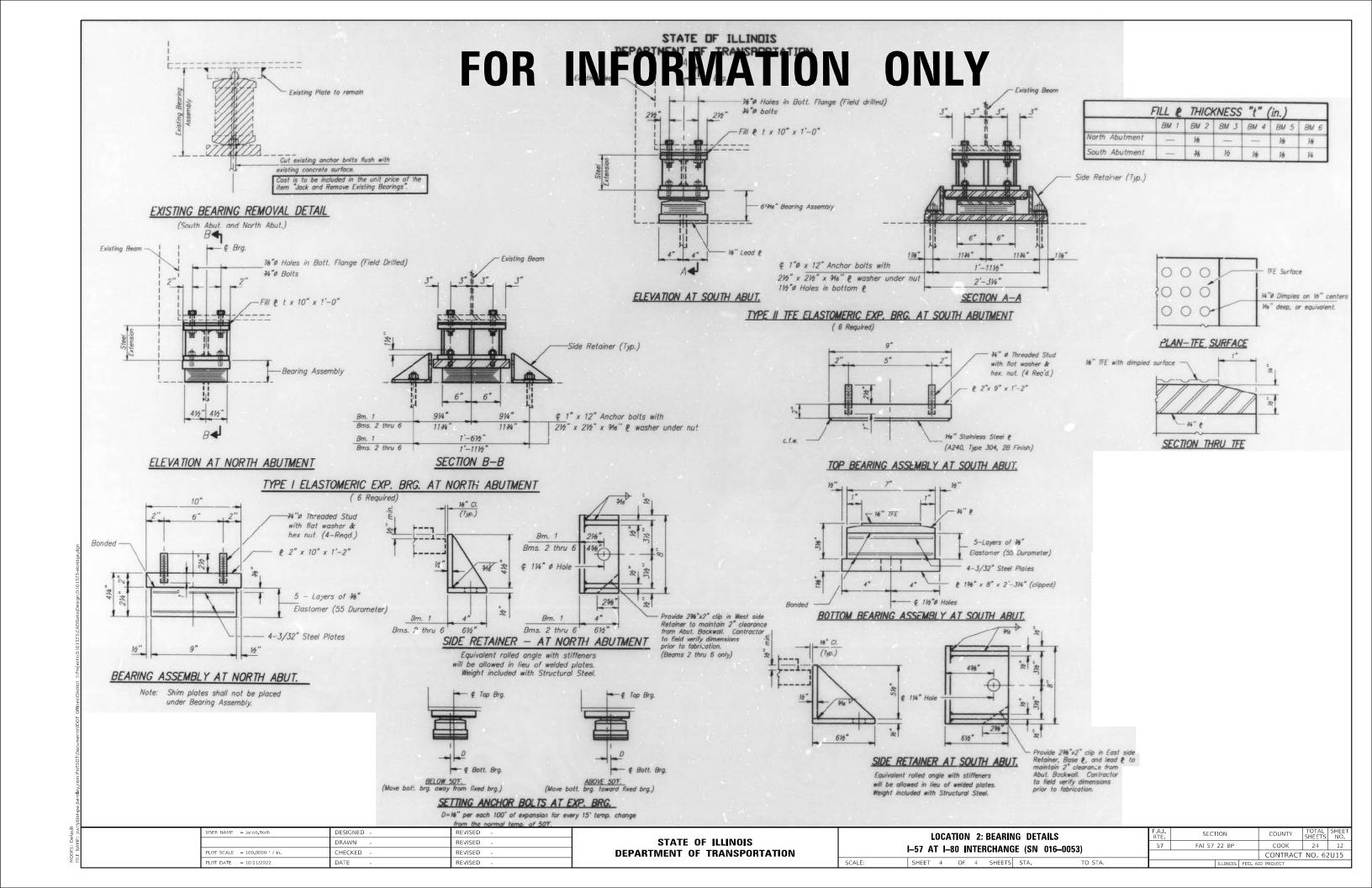


ALL END DIAPHRAGMS: W12 X 40 (TYP)
ALL INTERIOR DIAPHRAGMS: W16 X 36 (TYP)

FRAMING PLAN

USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

LOCATION 2: FRAMING PLAN	F.A.I. RTE.	SEC ⁻	LION		COUNTY	TOTAL SHEETS	SHEET NO.	
-57 AT I-80 INTERCHANGE (SN 016-0053	4	57	FAI 57	22 BP		COOK	24	11
-37 AT 1-00 HATCHCHAINGE (SIN 010-0033	7					CONTRACT	NO. 62	2U15
SHEET 3 OF 4 SHEETS STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



Existing Structure: S.N. 016-2026 was originally build in 1965 and reconstructed/widened in 1996. The structure has a back-to-back abutment length of 224'-3" and an out-to-out deck width that varies from 73'-2" to 77'-85%". The superstructure consists of a 7½" thick reinforced concrete deck supported on four span continuous steel beams of span lengths 51'-0", 46'-5", 77'-3" and 44'-8". The substructure consists of reinforced concrete abutments supported on reinforced concrete piles and reinforced concrete piers on spread footings

<u>LOADING</u>

HS20-44 (Existing and Proposed)

<u>DESIGN SPECIFICATION</u>

2002 AASHTO Standard Specification for Highway Bridges, 17th Edition

RECONSTRUCTION 1992 AASHTO Standard Specifications with 1993 Interim

SECTION

FAI 57 22 BP

COOK 24 13

CONTRACT NO. 62U15

LOCATION 3: PLAN AND ELEVATION

I-57 AT I-80 INTERCHANGE (SN 016-2026)

SHEET 1 OF 5 SHEETS STA.

FOR INFORMATION ONLY

DESIGNED

DRAWN

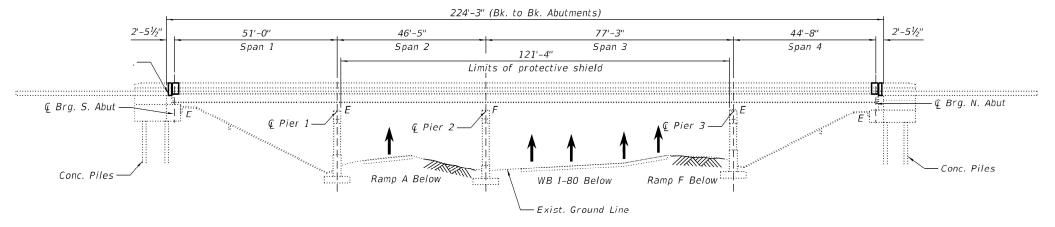
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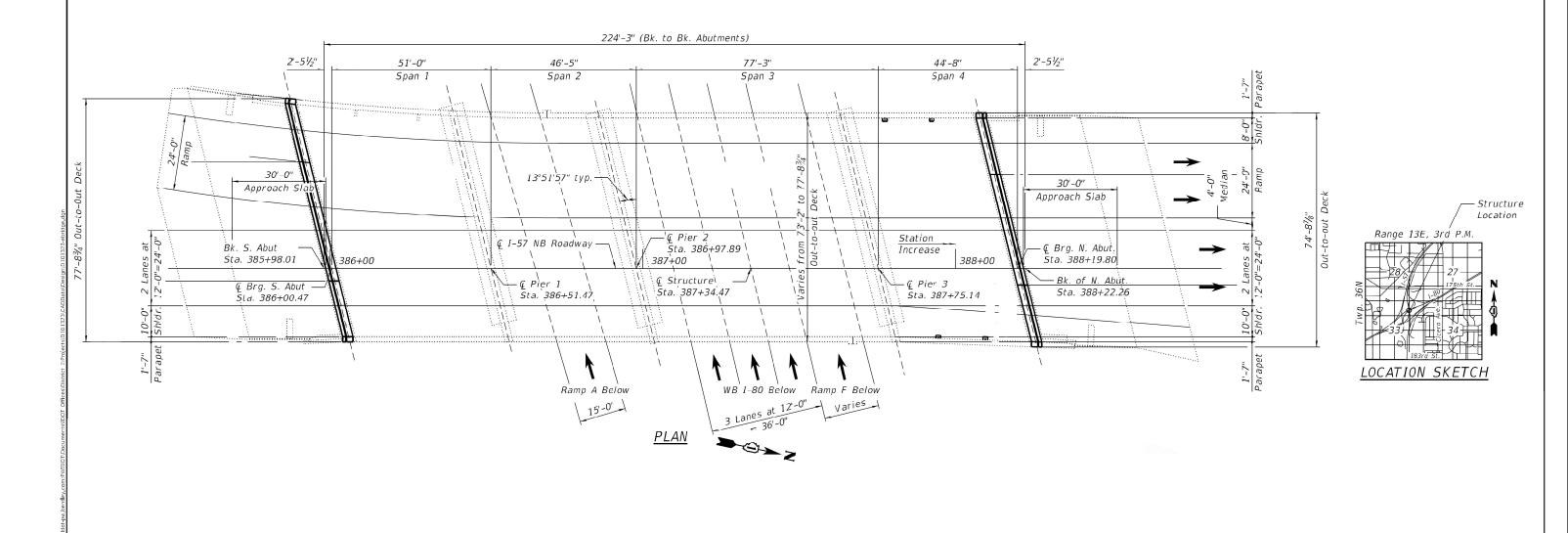
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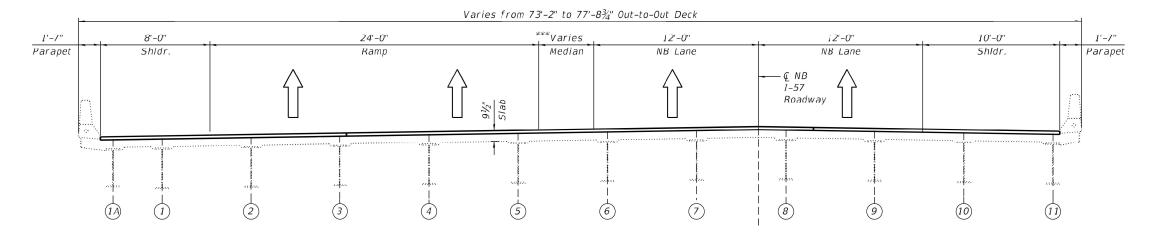
* Measured Radially

ELEVATION



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

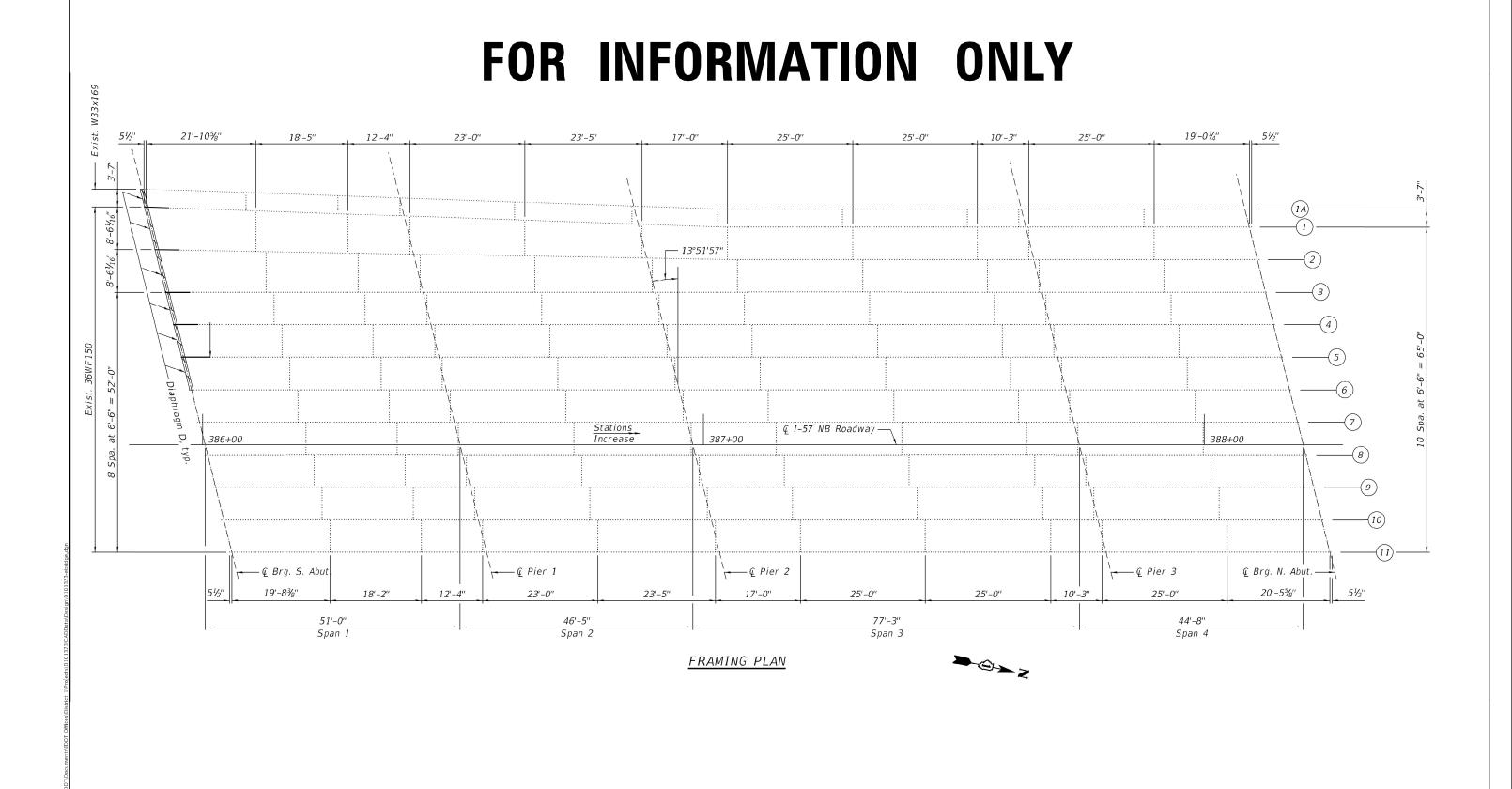


FINAL DECK CROSS SECTION

(Looking North)

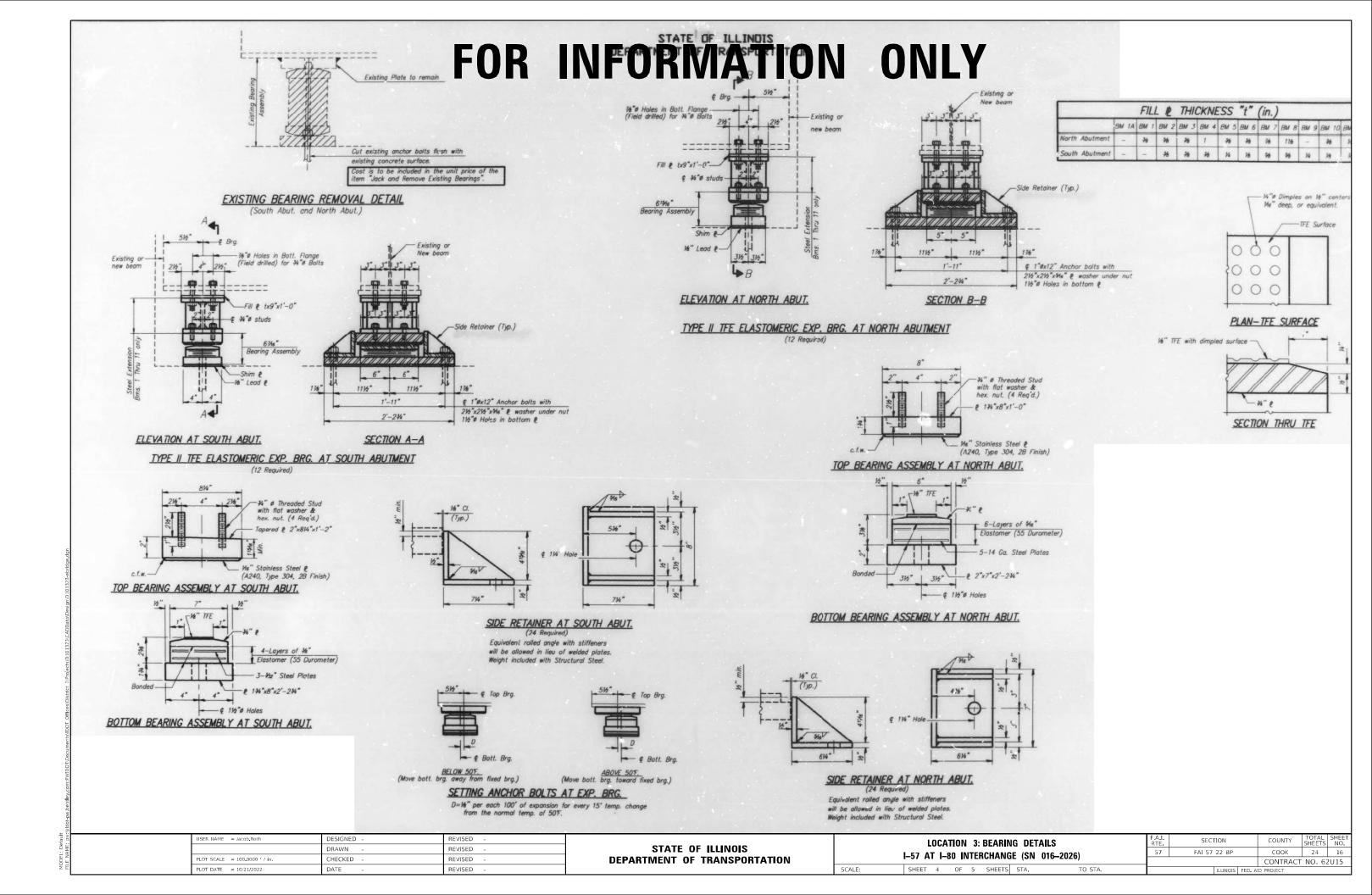
USER NAME = Jacob.Roth	DESIGNED -	REVISED -	$\overline{}$
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

	LOCATION 3: CROSS SECTION -57 AT I-80 INTERCHANGE (SN 016–2026)					F.A.I. RTE	SEC.	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.	
L-57 Λ'						57	FAI 57	22 BP		COOK	24	14	
-37 A	-37 AT 1-60 INTERCHANGE (SIN DIG-2020)										CONTRACT	NO. 62	2U15
SHEET	2	OF	5	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

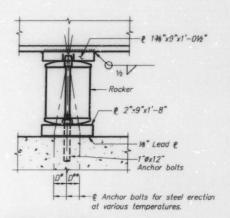


USER NAME = Jacob.Roth	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

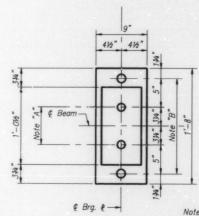
	LOCATION 3: FRAMING PLAN I–57 AT I–80 INTERCHANGE (SN 016–2026)							F.A.I. RTE	SEC.	LION		COUN
								57	FAI 57	22 BP		COO
	1-37 A	1-37 AT 1-00 INTERCHANGE (3N 010-2020)										CONT
	SHEET	3	OF	5	SHEETS	STA.	TO STA.			ILLINOIS	FED A	D PROJECT



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



ELEVATION AT PIERS 1 & 3 (BEAM 1A ONLY)



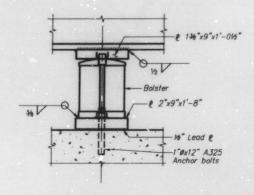
Note "A"
1¾6"Ø Holes
in top & for 1¼"Ø Pintles.
Thread or press fit 1¼"Ø
Pintles in bottom &.

© Brg. @ Note "B"

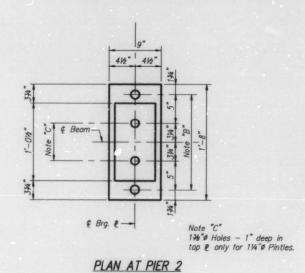
Note "B"

1½"5 Holes for 1"\$x12 Anchor bults—
%6"x2½"x2½" @ washer under nut.

PLAN AT PIERS 1 & 3 (BEAM 1A ONLY)



ELEVATION AT PIER 2
(BEAM 1A ONLY)



(BEAM 1A ONLY)

Plane Edges

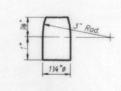
12" Rad.

3" 6½" 3"

14"\$ Pintles threaded or press fit.

W10x112

11-0½" 14"\$ Holes 1" deep in rocker for 1¼"\$ Pintles



PINTLE

ROCKER

Plane Edges

12" Rad.

3" 614" 3"

1'-012"

BOLSTER

FOR INFORMATION ONLY

USER NAME = Jacob.Roth	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/21/2022	DATE -	REVISED -	

LOCATION 3: BEARING DETAILS				SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.
-57 AT -80 NTERCHAN	57	FAI 57	22 BP		COOK	24	17		
-37 AT 1-00 HATEHOLIAN					CONTRACT	NO. 62	2U15		
SHEET 5 OF 5 SHEET	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT		

Existing Structure: S.N. 016-2027 was originally build in 1965 and reconstructed/widened in 1996. The structure has a back-to-back abutment length of 199'-8%'' along the tangent line at Sta. 383+76.18 and an out-to-out deck width of 43'-2''. The superstructure consists of a 7½" thick reinforced concrete deck supported on three span continuous steel beams of span lengths 62'-3 $\frac{1}{4}$ ", 78'-2", and 53'-0 $\frac{1}{6}$ ". The substructure consists of reinforced concrete abutments supported on reinforced concrete piles and reinforced concrete piers on spread footings

LOADING

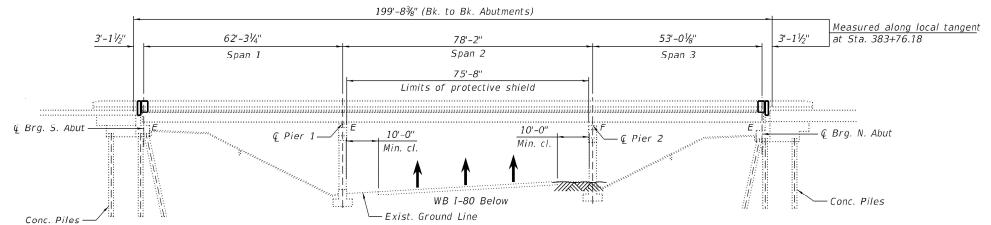
HS20-44 (Existing and Proposed)

DESIGN SPECIFICATION

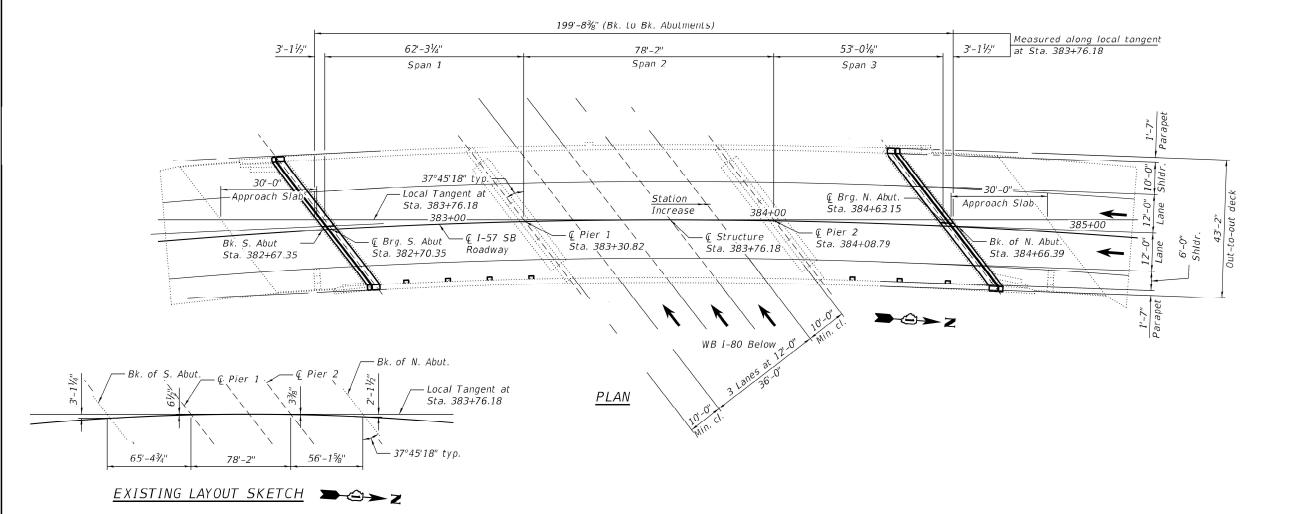
2002 AASHTO Standard Specification for Highway Bridges, 17th Edition

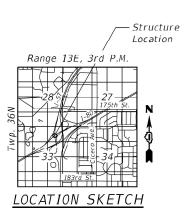
RECONSTRUCTION 1992 AASHTO Standard Specifications with 1993 Interim

FOR INFORMATION



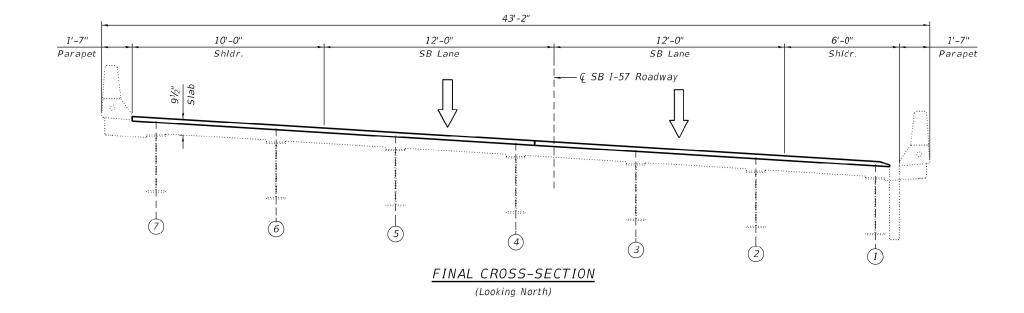
ELEVATION





USER NAME = Jacob.Roth	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2022	DATE -	REVISED -

LOCATION 4: PLAN AND ELEVATION	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57 AT I-80 INTERCHANGE (SN 016-2027)	57	FAI 57 22 BP	соок	24	18
1-37 AT 1-00 INTERIORANCE (SN 010-2027)			CONTRACT	NO. 62	2U15
SHEET 1 OF A SHEETS STA TO STA		TILINOIS FED A	ID DROJECT		



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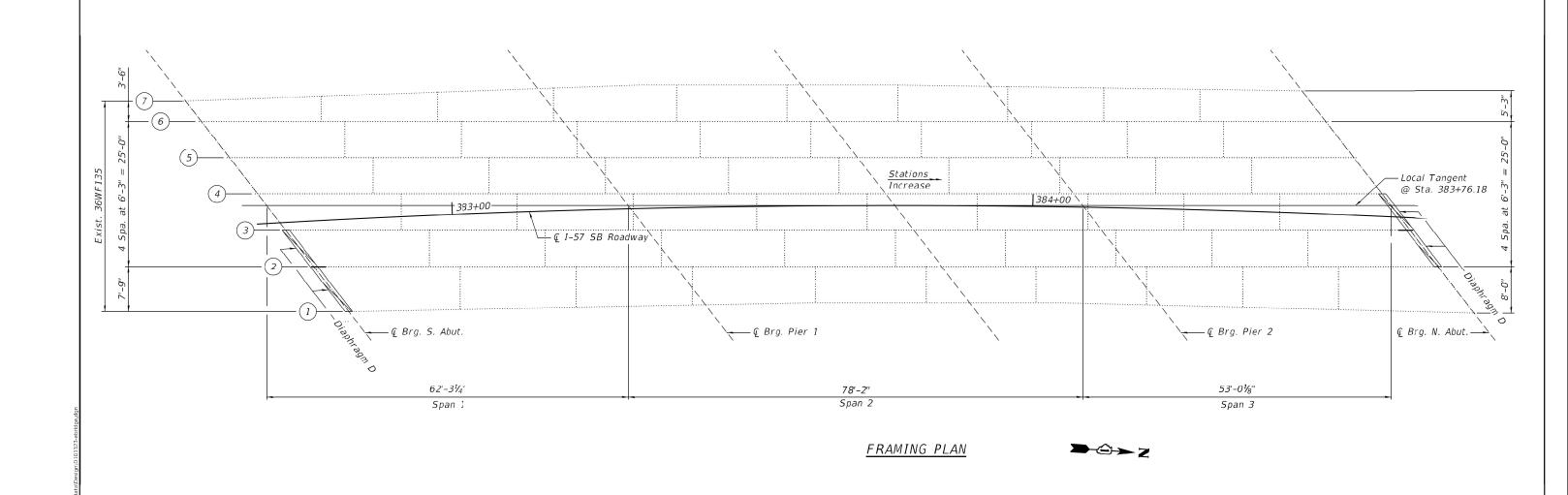
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 PLOT DATE
 = 10/21/2022
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA. TO STA.



 USER NAME
 = Jacob Roth
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 PLOT SCALE
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 CHECKED
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 PLOT DATE
 = 10/21/2022
 DATE
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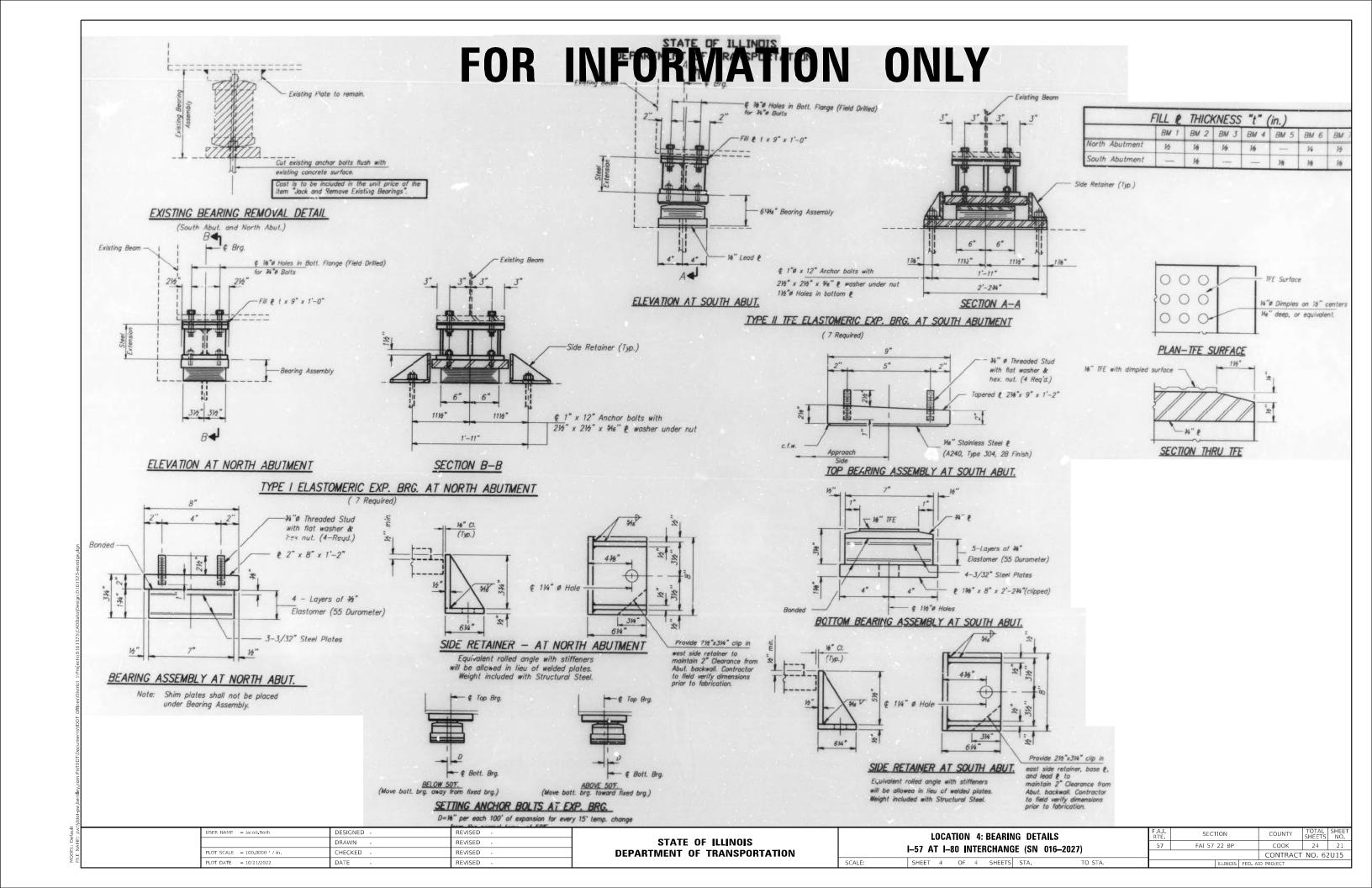
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

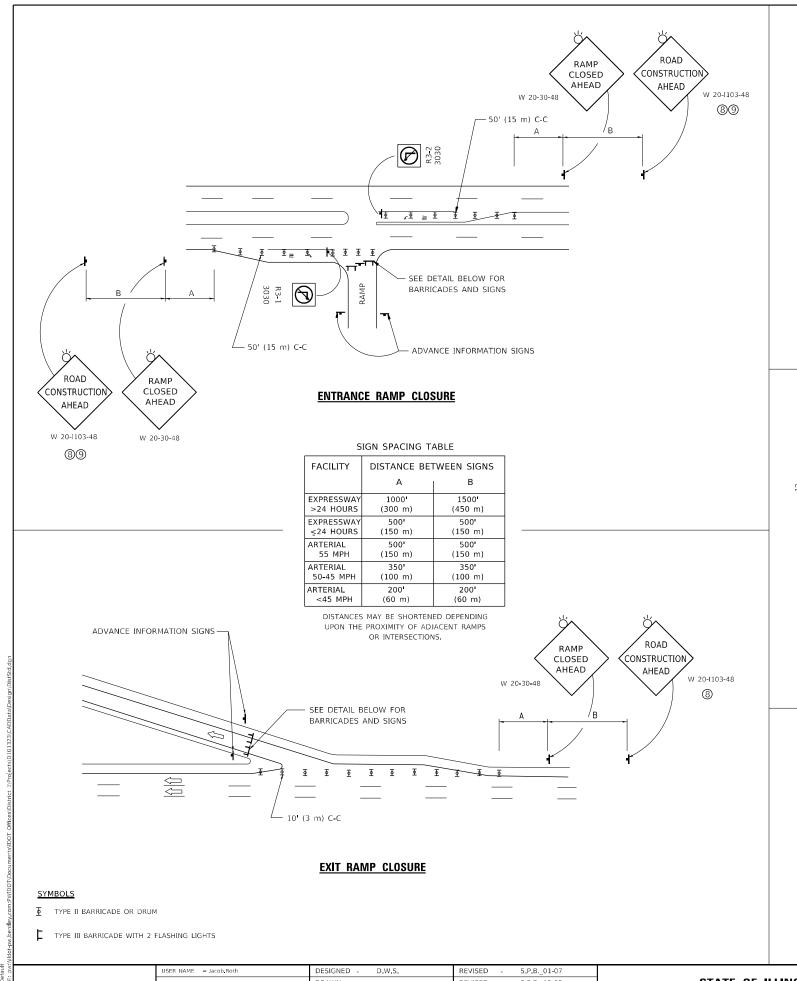
LOCATION 4: FRAMING PLAN

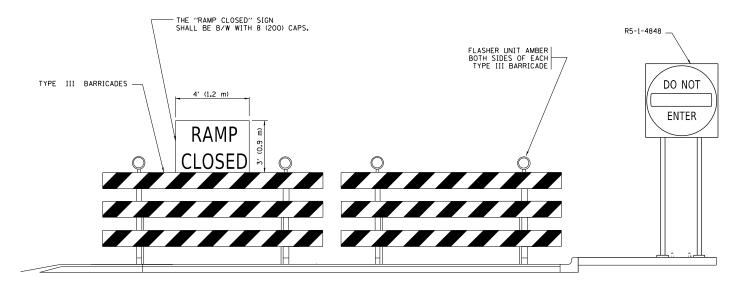
I-57 AT I-80 INTERCHANGE (SN 016-2027)

SHEET 3 OF 4 SHEETS STA TO STA

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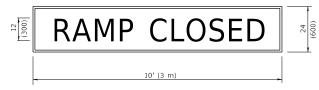






DETAIL FOR REQUIRED BARRICADES & SIGNS

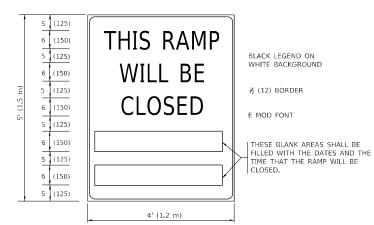
RAMP CLOSURE ADVANCE WARNING SIGN



BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE EXIT

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

BLACK LEGEND ON ORANGE



RAMP CLOSURE ADVANCE INFORMATION SIGN

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

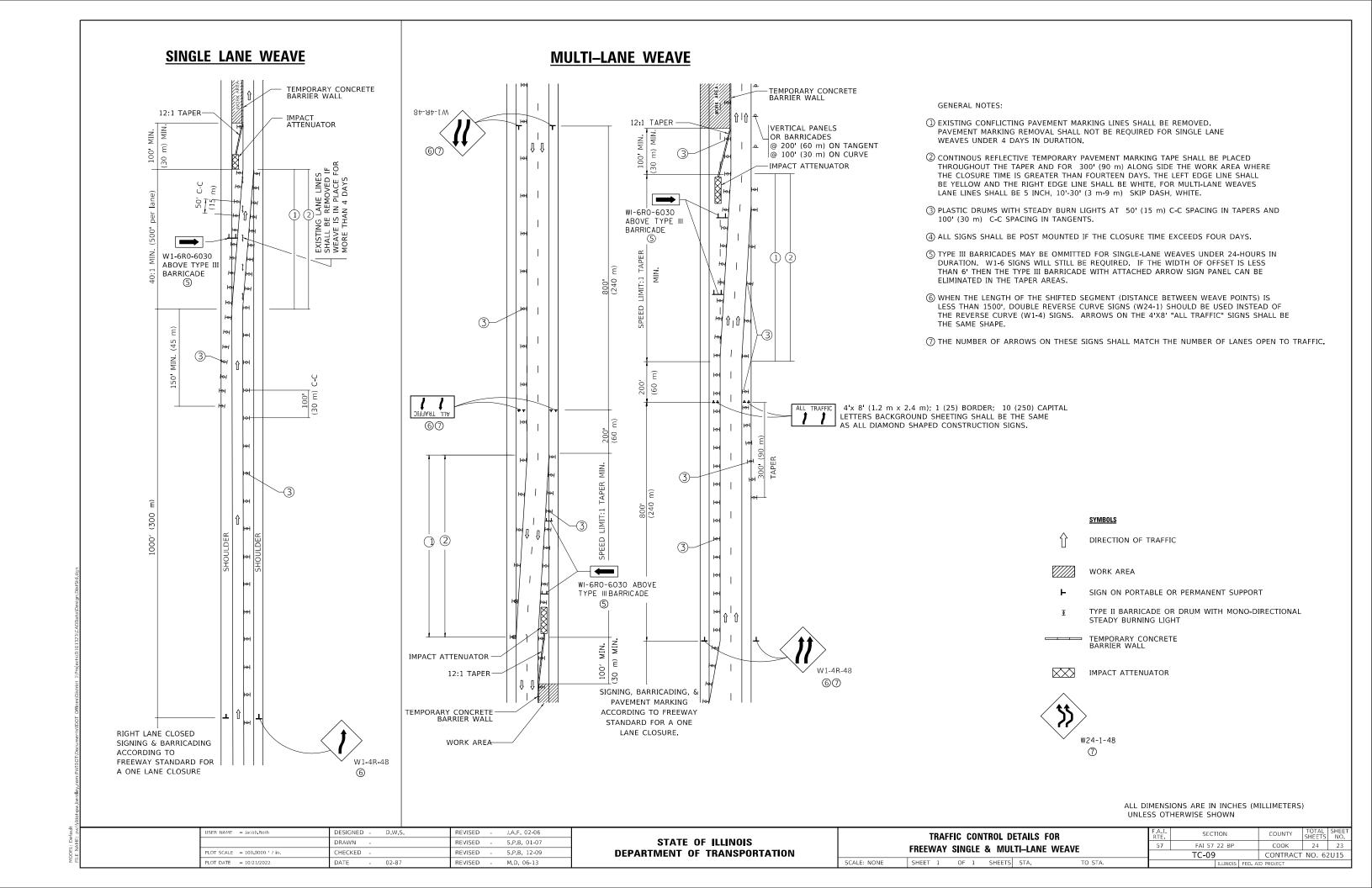
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (3) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

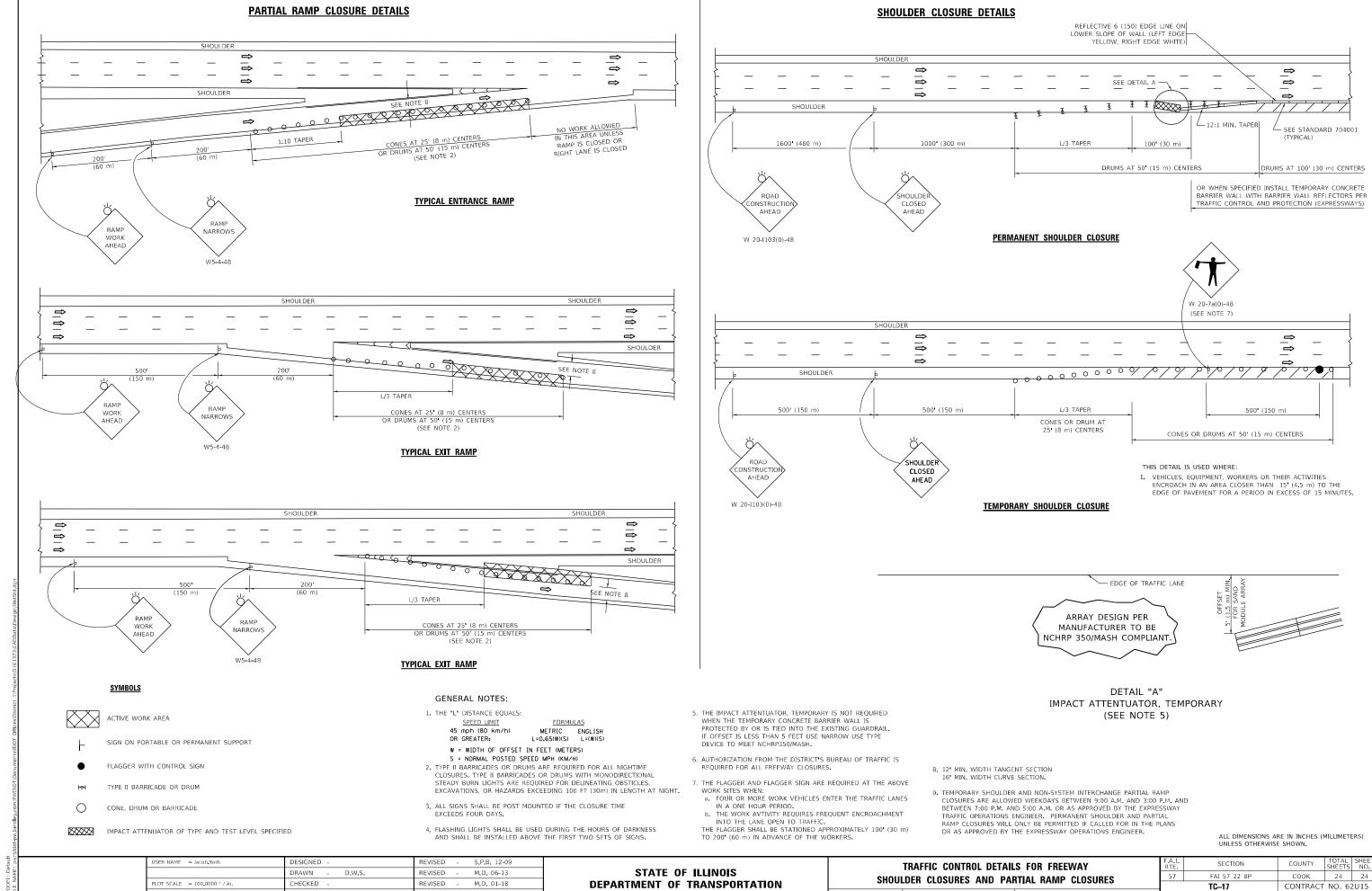
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED
 ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

OSER NAME = 30000,0001	DESIGNED - D.W.S.	KEVISED - 5.1.B0107		1	EN7	TRAN
	DRAWN -	REVISED - S.P.B12-09	STATE OF ILLINOIS	1	LIVI	
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PLOT DATE = 10/21/2022	DATE - 02-83	REVISED - M.D01-18		SCALE: NONE	SHEET 1	OF

RANCE_AND_EXIT_RAMP CLOSURE_DETAILS					F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
					57	FAI 57 22 BP			соок	24	22
					TC-08			CONTRACT NO. 62U15			
OF 1 SI	HEETS	STA	TO S	$T\Delta$			TUTNOTE	EED A	D DROJECT		





M.D. 10-20

REVISED

DATE

SHEET 1 OF 1 SHEETS STA.