11-09-2018 LETTING ITEM 015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

### D-91-351-18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO

0

0

0

TRAFFIC DATA

OHIO RAMP:

2017 ADT = 18100 POSTED SPEED LIMIT=30 MPH - 45 MPH

1-90/94 KENNEDY EXPY:

2017 ADT = 292600 POSTED SPEED LIMIT = 55 MPH

# PROPOSED HIGHWAY PLANS

FAI ROUTE 94:1-90/94
1) SN 016-0204 EB RAMP TO OHIO
2) SN 016-2551 REVERSIBLE TO OHIO

**SECTION 2018-059-BP** 

PROJECT: NHPP-83GC(689)

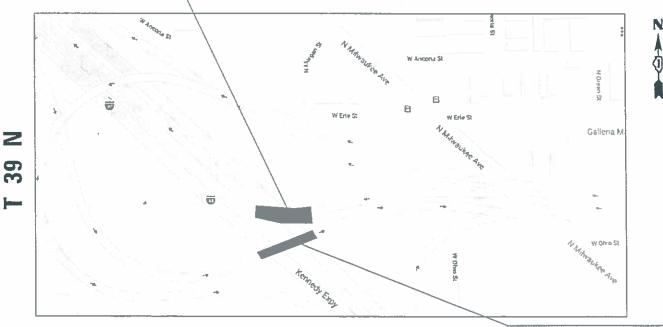
**BRIDGE PAINTING** 

COOK COUNTY

C-91-276-18

2) SN 016-2551 REVERSIBLE TO OHIO

R 14 E



**WEST CHICAGO TOWNSHIP** 

1) SN 016-0204 EB RAMP TO OHIO ## DAMES | STAND | STA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED ALBUST 15 20 18

LOCATION OF SECTION INDICATED THUS: - -

PRESIDENT ALL ENGINEER

20 TO A CONTROL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTAL

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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.

C.U.A.N. CHICAGO UTILITY ALERT NETWORK

1-312-744-7000

PROJECT ENGINEER: MIDY, J. ALAIN (847) 221-3056

PROJECT MANAGER: AQUEEL, FAWAD (847) 705–4247

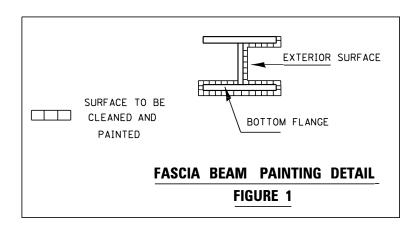
CONTRACT NO. 62G89

## **INDEX OF SHEETS**

DESCRIPTION

SHEET NO.

1.	TITLE SHEET
2.	INDEX OF SHEETS AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
4-7	BRIDGE DETAILS SN 016-0204
8-11	BRIDGE DETAILS SN 016-2551
12.	FREEWAY ENTRANCE AND EXISTING RAMP CLOSURE DETAILS (TC-08)
13	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09)
14.	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDEF CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)



### STATE STANDARDS

STD NO.	DESCRIPTION
701106-02	OFF- ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
701901-07	TRAFFIC CONTROL DEVICES

**GENERAL NOTES** 

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL .C. U. A. N. . AT (312) 744-7000 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 CHICAGO.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO 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 SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE OUTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.

### **GENERAL PAINT NOTES**

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANES AND PAINTED.

### SN 016-2551

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT, (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING

THESE AREAS SHALL BE PAINTED ACCORDING TO THE REGUIREMENTS 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.

### SN 016-0204

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

ALL AREAS SHALL BE PAINTED ACCORDING TO THE REGUIREMENTS 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.

SECTION

2018-059-BP

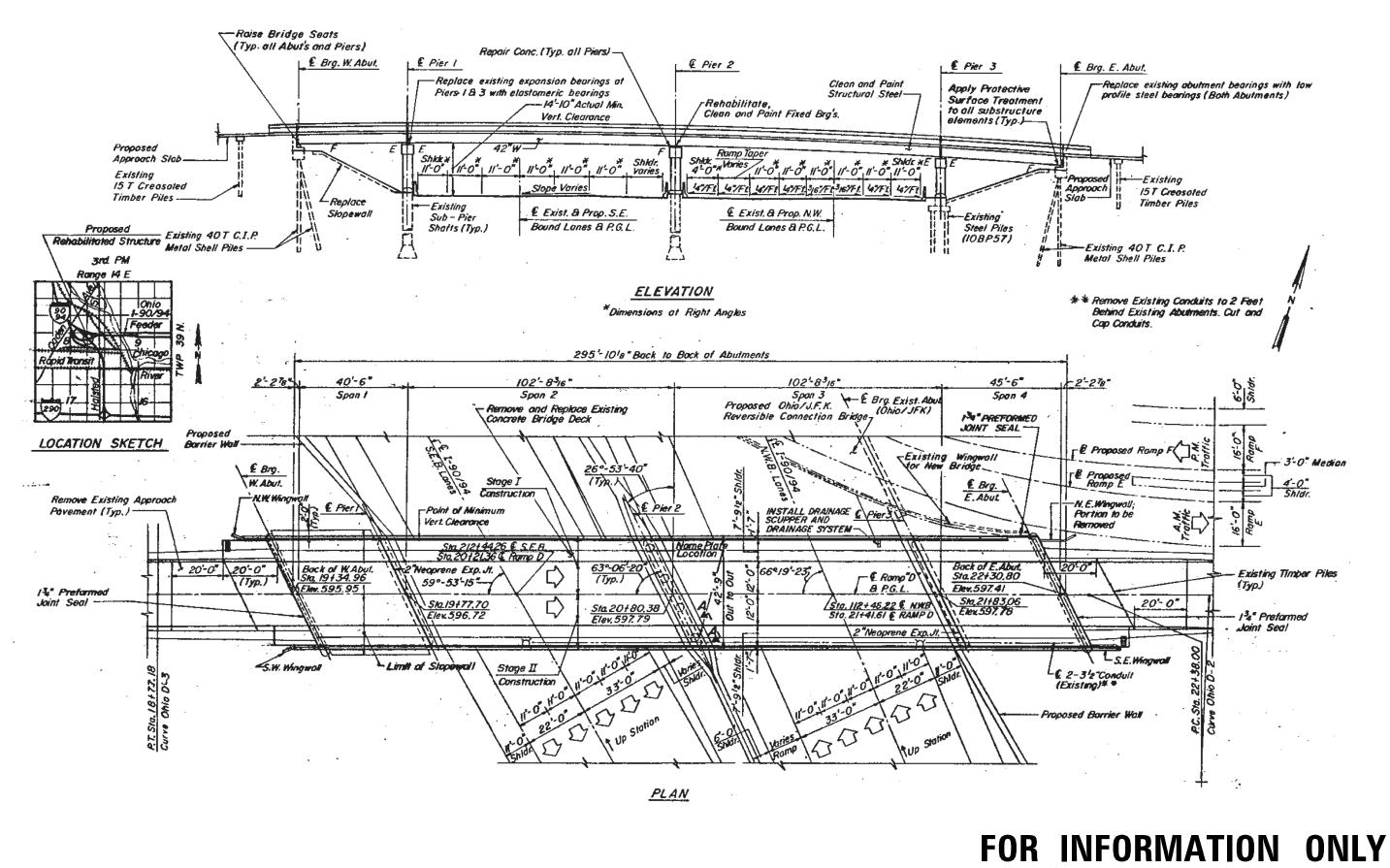
	RTE.
Ì	94
ГА	TA.

COOK 14 2

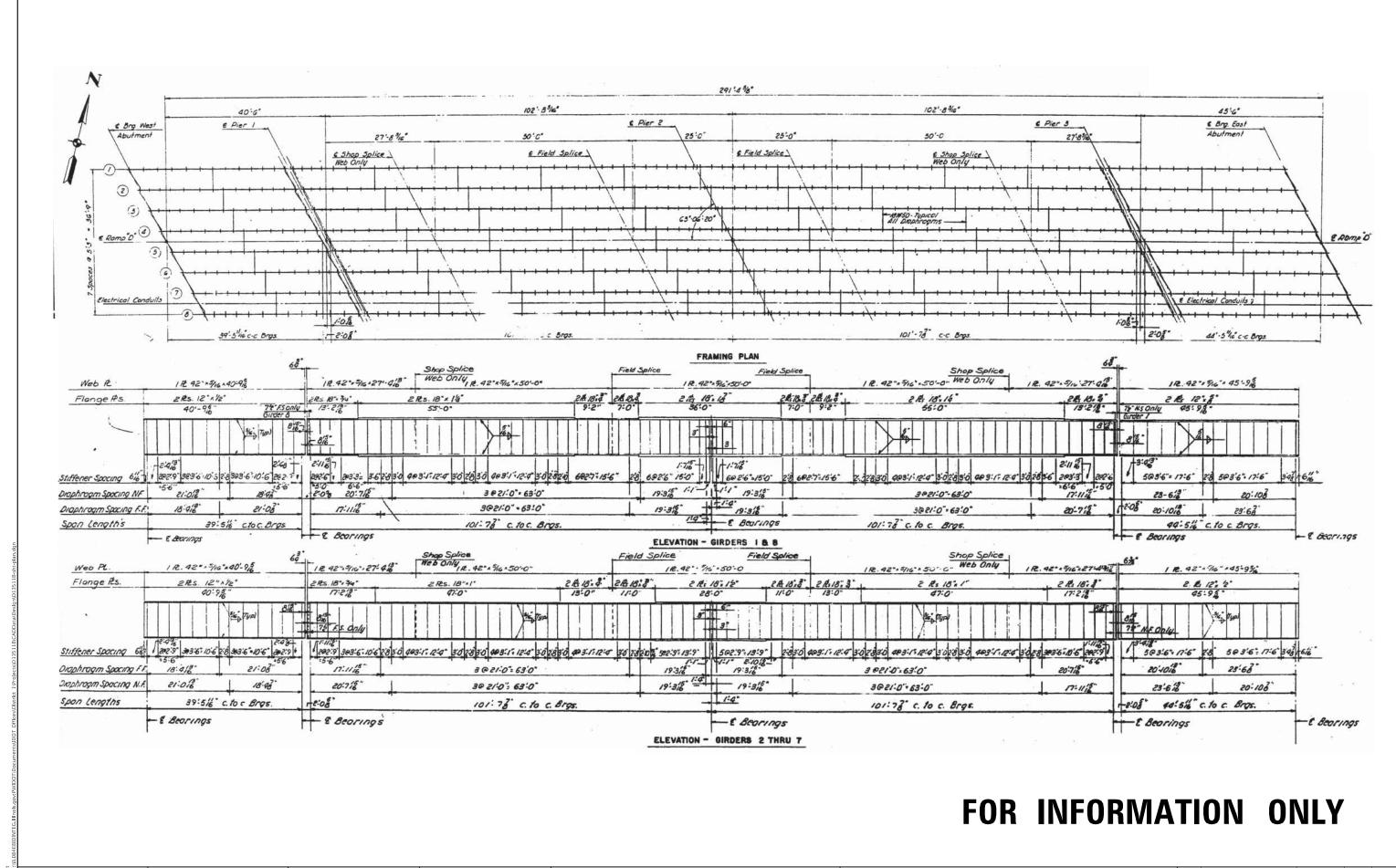
COUNTY

### CONTRACT NO. 62G89 ILLINOIS FED. AID PROJECT REV. 9/20/18

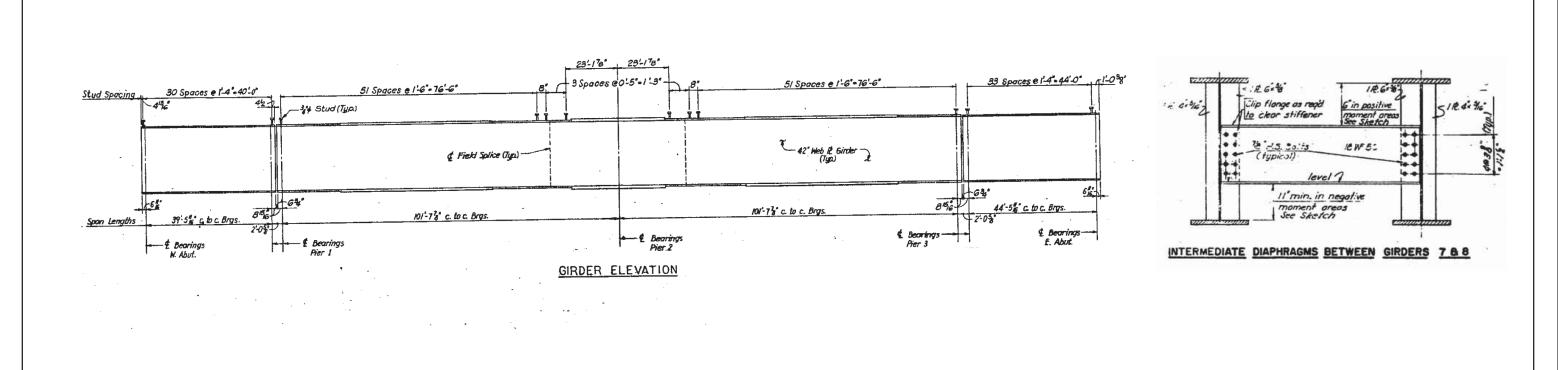
	CHAMADY OF CHANTITIES			1	CO	NSTRUCTIO	ON TYPE C	ODE	0047		CIMALES OF CONTESTS			1	CO	NSTRUCTION	N TYPE COI	DE	
	SUMMARY OF QUANTITIES		URBAN	0047	0047					T	SUMMARY OF QUANTITIE	S						Î	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0047 BRIDGE 1 SN 016-0204 90% FED 10% STATE	SN 016-2551 90% FED 10% STATE					CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3														
57100100	MOBILIZATION	L SUM	1	0.5	0.5	T T			5								-		
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5														
x7011015 T	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.5	0.5														
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1	0.5	0.5														
	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1		·							3						
20010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1														
			1/			1.5°	4			6.3									
																1,			
		2						5											
						\$ 5													
						in the second													
		1.			:								31.				ľ	2	
II E NAME -	INCENTIAL	ICNED		PENICES							,	,			[FAI]			1.00	TAI I SHI
ILE NAME = v:\VL084EBIDINTEGJIIIn	USER NAME = gorengautab DES.  Inols.gov:PWIDDT\Documents\DDF Offices\District \Projects\District \DDAta\Design\District \DDAta\Design\Dis	IGNED -		REVISED REVISED					STATE	OF ILLINOIS					F.A. I. RTE. 94	SECTIO		COOK 14	TAL SHEE ETS NO. 4 3
		-																COOK 1 14	.   5
	PLOT SCALE = 100,0000 '/ In. CHE	CKED -		REVISED	-		D			F TRANSPORTATION	on	SUMMARY OF QUAN	TITIES		34	2018-059		ONTRACT NO	). 6

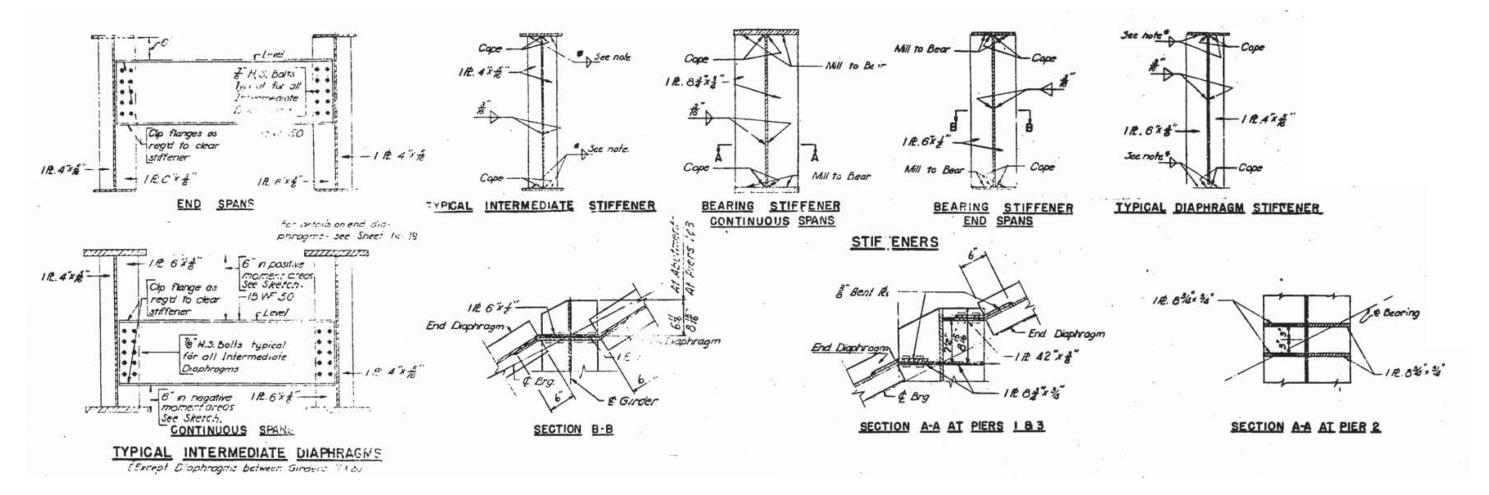


USER NAME = gorengautab	DESIGNED -	REVISED -		LOC 1: EXISTING BRIDGE PLAN				SECTION	COUNTY	TOTAL SH	HEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS		EB RAMP TO OHIO (SN 016-0204	11	94	2018-059-BP	СООК	14	4
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	ED RAIVIP TO UNIO (SIN UTO-0204)					CONTRACT	NO. 62G	89
PLOT DATE = 8/9/2018	DATE -	REVISED -		SCALE:	SHEET 1 OF 4 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



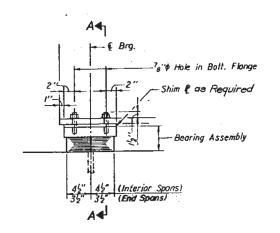
USER NAME = gorengautab	DESIGNED -	REVISED -		Inc.	1: EXISTING BRIDGE STRUCTURAL FRAMING PLAN	F.A.I. RTF	SECTION	COUNTY	TOTAL S	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		EB RAMP TO OHIO (SN 016-0204)	94	2018-059-BP	соок	14	5
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	ED NAIMIR TO UNIO (SIN UTO-UZU4)				CONTRACT	r NO. 62	G89
PLOT DATE = 8/9/2018	DATE -	REVISED -		SCALE:	SHEET 2 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

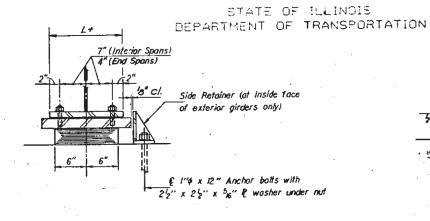


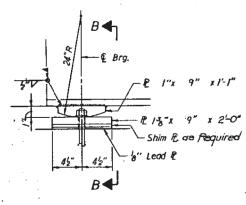


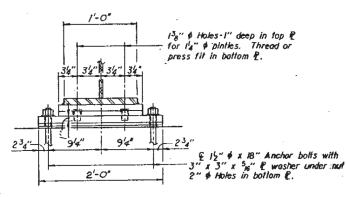
## FOR INFORMATION ONLY

USER NAME = gorengautab	DESIGNED -	REVISED -		LOC 1: EXISTI	ING BRIDGE CROSS SECTIO	N AND DIAPHRAC	SM DETAILS	F.A.I.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	LOO I. LAIGII			JIVI DETAILS	94	2018-059-BP	соок	14	6
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EB RAMP TO OHIO (SN 016-0204)			CONTRACT NO. 62G8			2G89		
PLOT DATE = 8/9/2018	DATE -	REVISED -		SCALE:	SHEET 3 OF 4 SHEETS	STA. TO	STA.		ILLINOI	FED. AID PROJECT		









ELEVATION AT PIERS 1 & 3

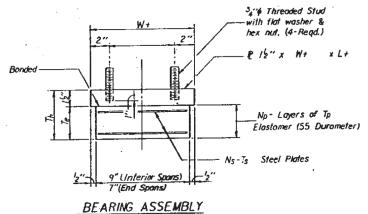
SECTION A-A

**ELEVATION AT ABUTMENTS** 

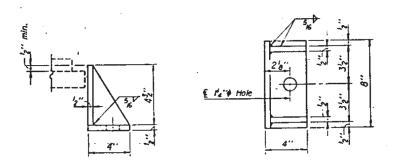
**PINTLE** 

SECTION B-B

## TYPE I ELASTOMERIC EXP. BRG. (No. Reg'd. 32)



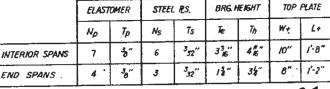
Note: Shim plates shall not be placed under Bearing Assembly.

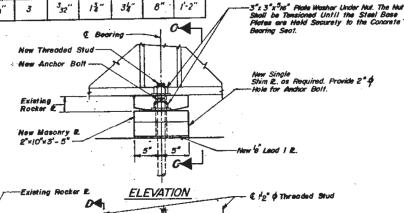


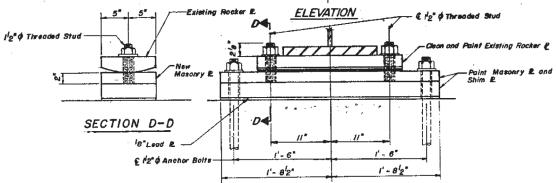
SIDE RETAINER Equivalent rolled angle with stiffeners will be allowed in lieu of we'ded plates.

- . I. See Dwg. SD-15 for Anchor Bolt Installation.
- Remove Existing Bearings at East and West Abutments and at Piers Land 3.
   Remove the Top Bearing Plate Using Air Arc Method. Grind Bottom of Girder Flange Smooth.
- 3. At East and West Abutments and at Piers I and 3 Existing Anchor Balts shall be Burned off 3" Below Proposed Bridge Seat Elevation Except for Girders 7 and 8 at East Abutment Where Easting Anchor Bolts shall be Burned off Flush with Existing Concrete Surface.
- 4 At Pier 2 Existing Anchor Bolts shall be Burned off Flush with Existing Concrete Surface.

	ELAST	OMER	STEE	L RS,	BRG. F	EIGHT	TOP PLATE		
	Np	Τp	Ns	Ts	Te	Th	Μ÷	L+	
INTERIOR SPANS	7	3"	6	352"	33"	4%-	10"	1'-8"	
END SPANS .	4 .	30"	3	332"	12"	34"	8"	1'-2"	







SECTION C-C EXISTING FIXED BEARING - PIER 2

## FIXED BEARING - ABUTMENTS (No. Reg'd. 16)

		TABLE	OF BEA	RING SH			
		Pi	er /	Ι'	Pier	East	
Girder No.	West Abutment	End Span	Interior Span	Pier 2	Interior Span	End Span	Abutment
1	-	234	Τ-	-	-	1 16	-
2	-	/ <sup>3</sup> /6"	-	-	-	116	
3	-	3,5	_	_	_	5,	-
4	-	_	-	_	-	3,"	
5		15	1 -		_	13° 16	
6	-	4	_	3 1516"	-	-	_
7		15	-	3'5"	12	13/16	34
8		5.5	_	36"	_	_	1/36

BILL OF MATERIAL		
/ tem	Unit	Total
Jack and Remove Existing Bearings	Each	56
Erecting Structural Steel	L Sum	1
Install Elast. Bearing Assembly, Type I	Each	32
Cleoning and Pointing Exist Bearing	L. Sum	/

Jacking of the superstructure at Pier 2 for the purpose of modifying existing fixed bearings as shown here, as well as installation of fixed bearings at abutments, shall be included under the pay item "Erecting Structural Steet."

## FOR INFORMATION ONLY

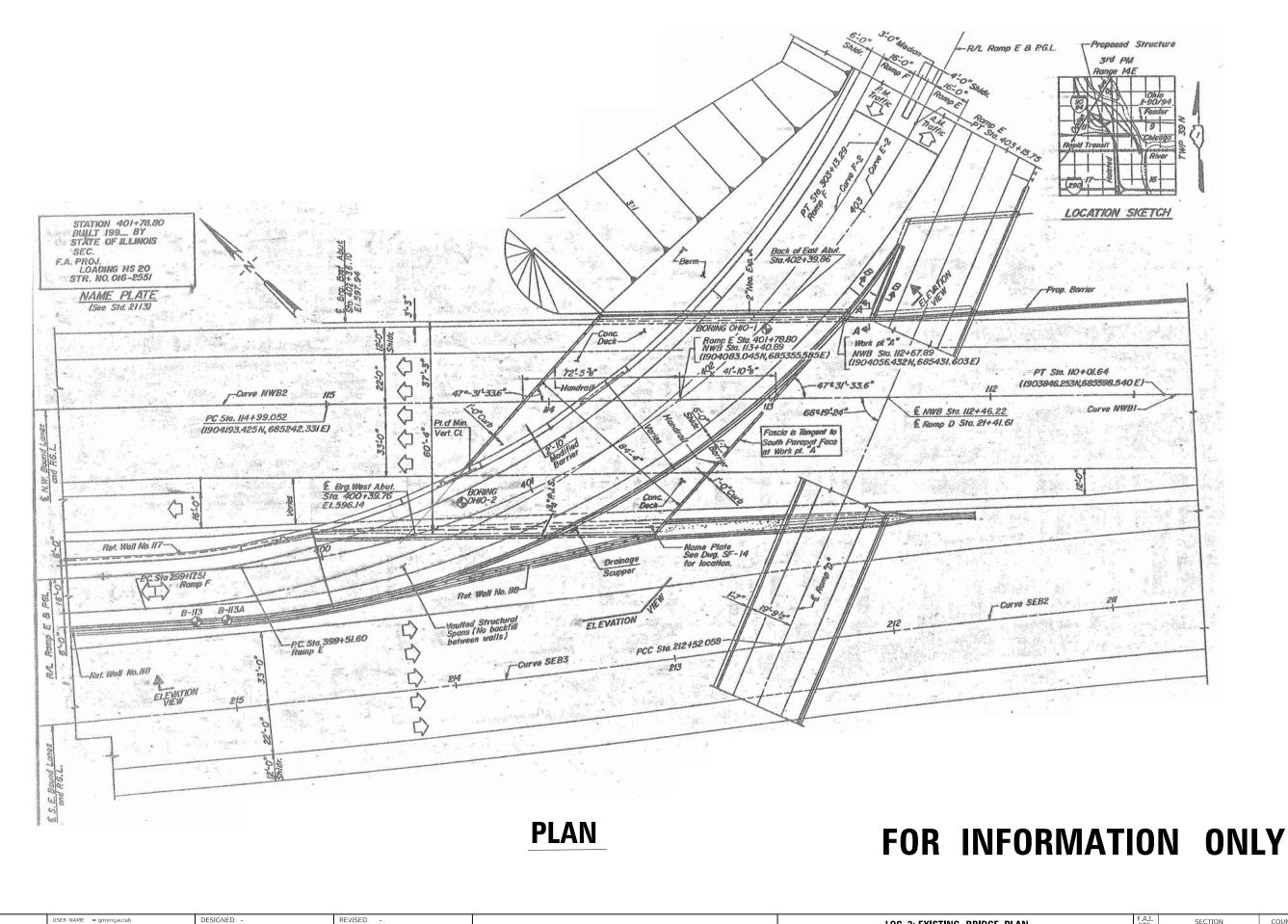
USER NAME = gorengautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

LOC 1: EXISTING BRIDGE E	REARING DETAILS
LOO I. LAIGITING DITIDGE L	JEANNING DETAILS
ED DAME TO OUR	(ONL 04C 0004)
EB RAMP TO OHIO	(SN 016-0204)
	,

SHEET 4 OF 4 SHEETS STA.

F.A.I. RTE.	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEE		
94	2018-0	59-BP		соок	14	7		
				CONTRACT	NO. 62	2G89		
		ILLINOIS	FED. A	ID PROJECT				



MODEL: Default

REVISED - DEPA

DRAWN

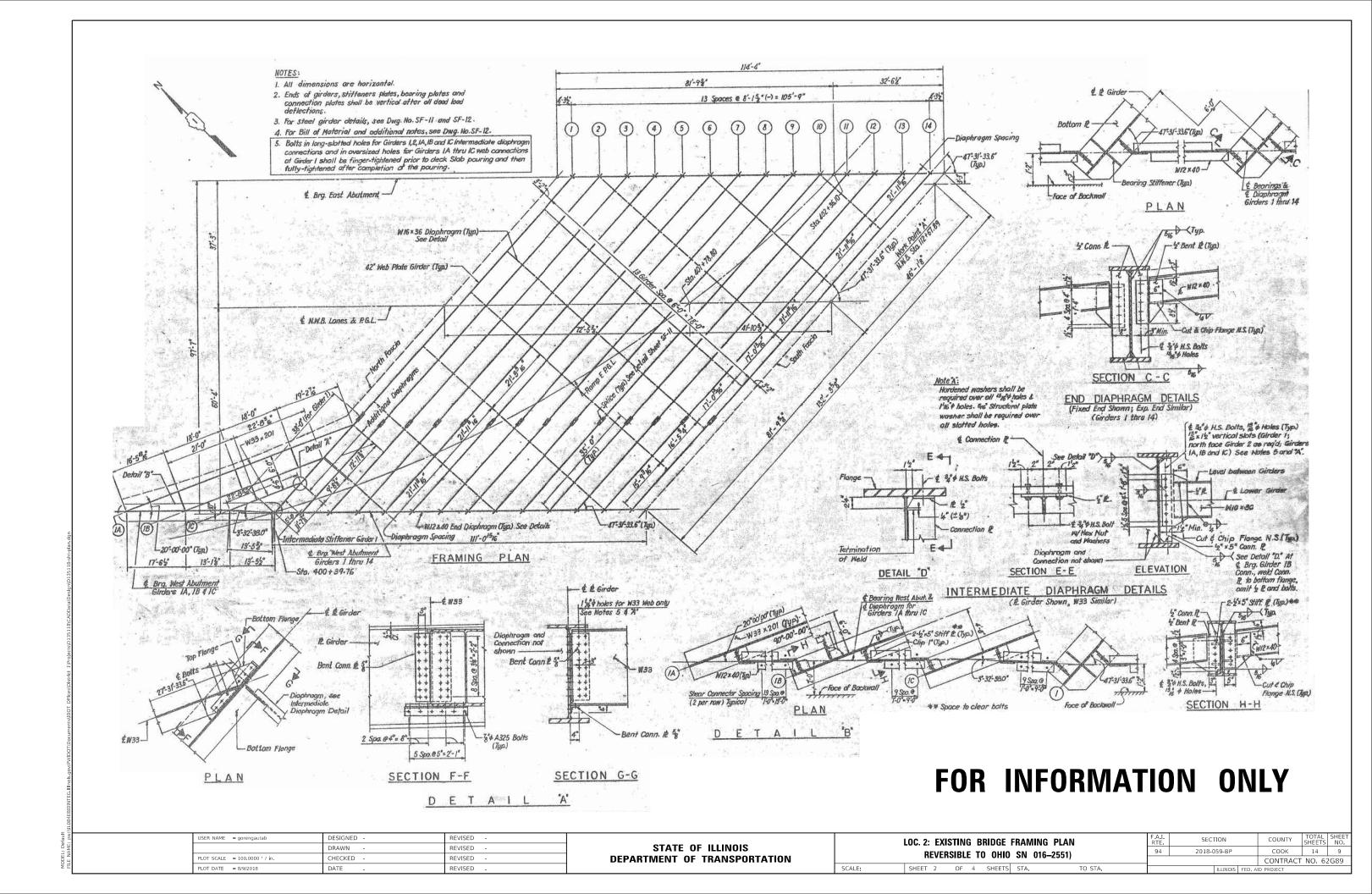
DATE

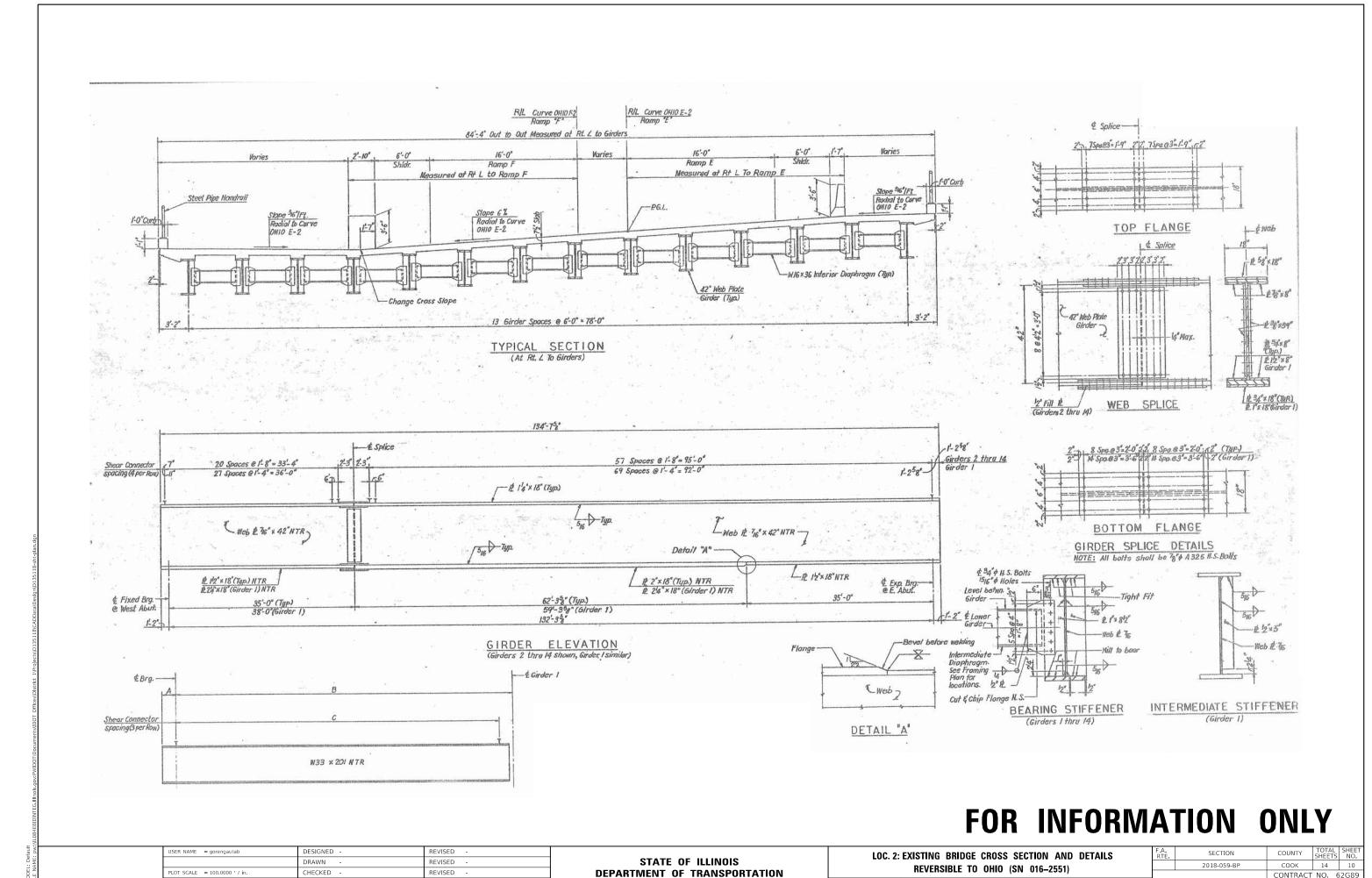
CHECKED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC. 2: EXISTING BRIDGE PLAN
REVERSIBLE TO OHIO (SN 016–2551)

SHEET 1 OF 4 SHEETS STA.

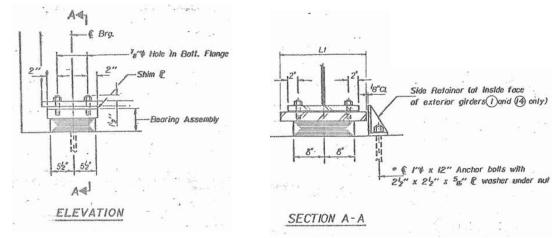


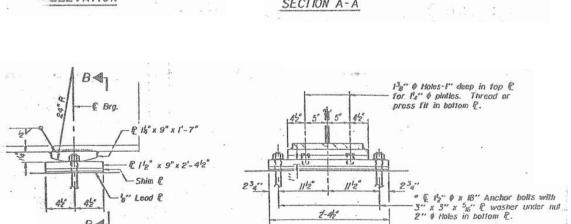


DATE

CONTRACT NO. 62G89

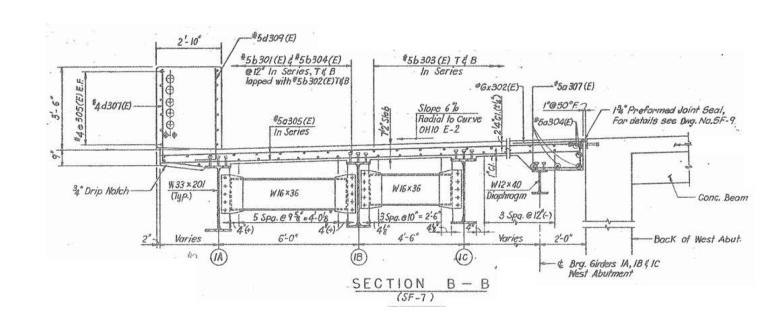
SHEET 3 OF 4 SHEETS STA.



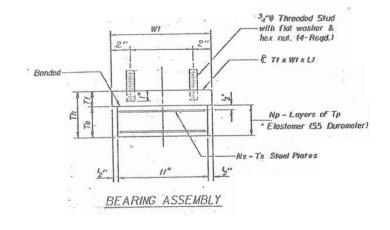


FIXED BEARING AT WEST ABUTMENT

ELEVATION

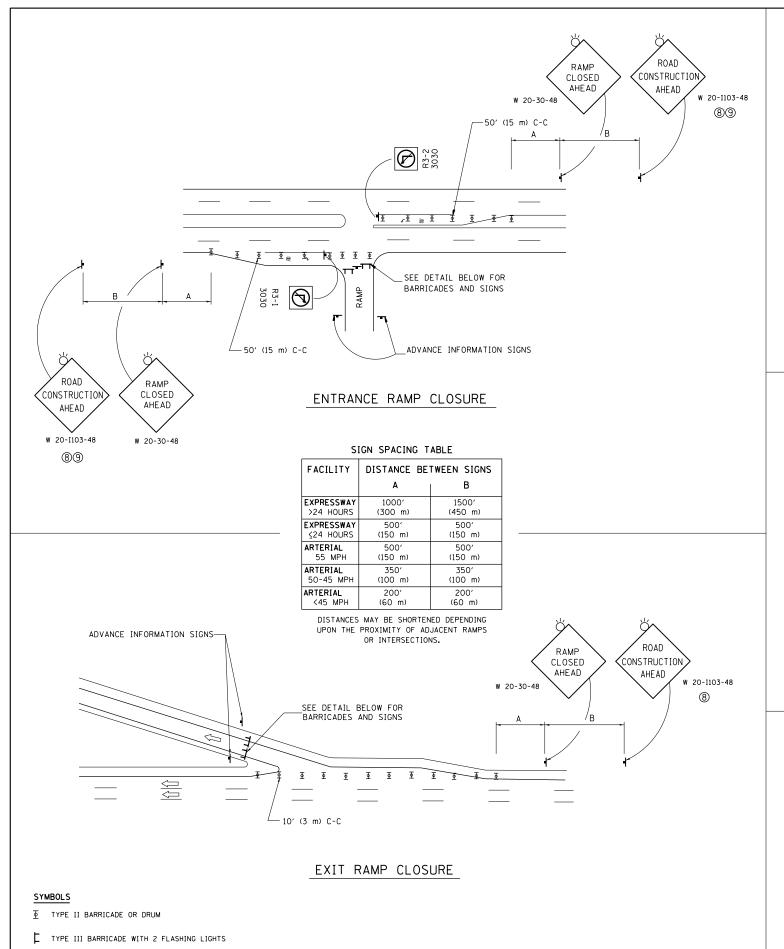


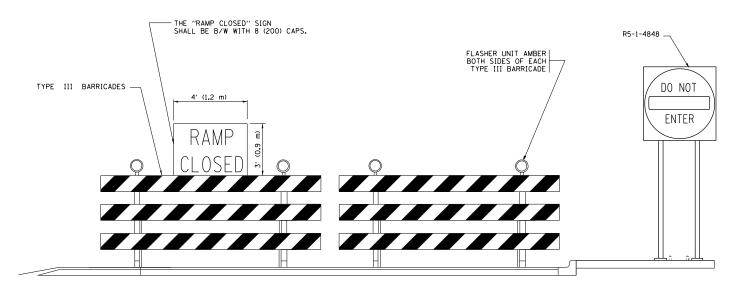
SECTION B-B



## FOR INFORMATION ONLY

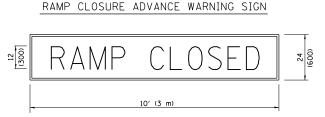
	USER NAME = gorengautab	DESIGNED -	REVISED -			LOC. 2: EXI	ISTING E	RRINGE REA	ARING DET	VII S	F.A.I.	SECTION	COUNTY	TOTAL	SHEET
		DRAWN -	REVISED -	STATE OF ILLINOIS					94	2018-059-BP	соок	14	11		
	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	REVERSIBLE TO OHIO (SN 016-2551)						CONTRAC	T NO. 62	2G89		
	PLOT DATE = 8/9/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS S	TA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE INFORMATION SIGN



CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT
GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE

5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
5 (125)
6 (150)
7 (1.2 m)

BLACK LEGEND ON WHITE BACKGROUND

WHITE BACKGROUND

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TILLED WITH THE TILLED WITH THE TILLED WITH THE DATES AND THE TILLED WITH THE TILLED WITH

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.
- (5) 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.
- (7) 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.

FILE NAME =	USER NAME = gorengautab	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07		ENTRANCE AND EXIT RAMP	F.A. I.	SECTION	COUNTY TOTAL SHEETS	HEET NO.
pw:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\D	ocuments\IDOT Offices\District 1\Projects\D13	511 <b>87:XWN</b> ata\Design\DistStd.dgn	REVISED - S.P.B. 12-09	STATE OF ILLINOIS	CLOSURE DETAILS	94	2018-059-BP	COOK 14	12
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - M.D. 06-13	DEPARTMENT OF TRANSPORTATION	GLUSUNE DETAILS		TC-08	CONTRACT NO. 620	89
Default	PLOT DATE = 8/9/2018	DATE - 02-83	REVISED - M.D. 01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ID PROJECT	

