

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	1
FAP 326 (IL 47) & FAS 268A (CH 15) BRIDGE			CONTRACT NO. 66K89	

INDEX OF SHEETS

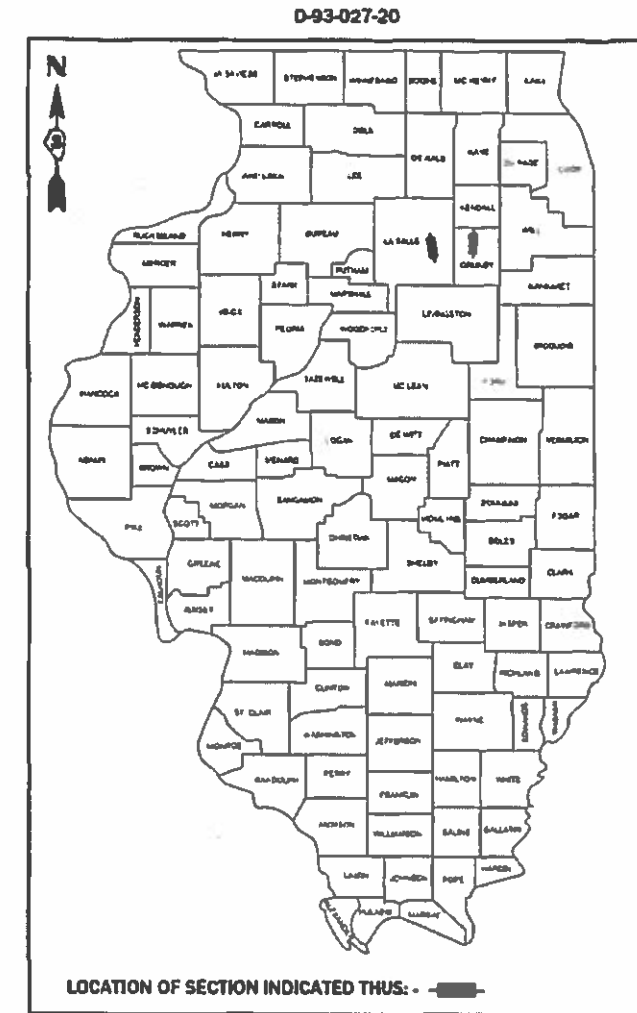
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- 52 - 55. BEARING DETAILS FOR STRUCTURE NO. 050-0219

STANDARDS

- | | |
|-----------|--|
| 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 701001-02 | OFF-ROAD OPERATIONS 2L 2W, MORE THAN 15' (4.5 m) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY |
| 701201-05 | LANE CLOSURE, 2L 2W DAY ONLY, FOR SPEEDS \geq 45 MPH |
| 701206-05 | LANE CLOSURE, 2L 2W NIGHT ONLY, FOR SPEEDS \geq 45 MPH |
| 701301-04 | LANE CLOSURE, 2L 2W SHORT TIME OPERATIONS |
| 701321-18 | LANE CLOSURE, 2L 2W BRIDGE REPAIR WITH BARRIER |
| 701423-10 | LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS \geq 45 MPH |
| 701426-09 | LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \geq 45 MPH |
| 701428-01 | TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY |
| 701901-08 | TRAFFIC CONTROL DEVICES |

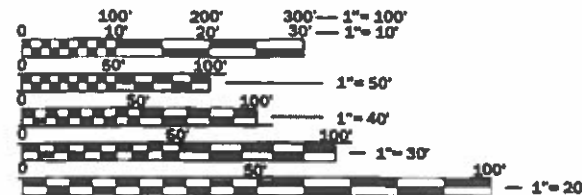
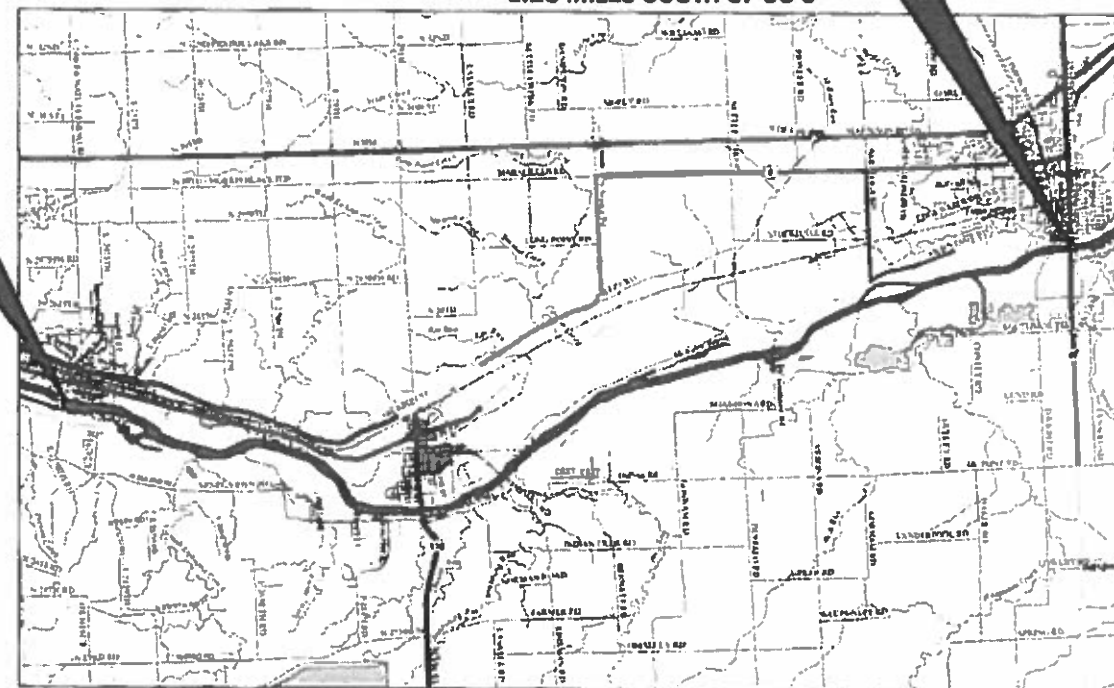
**PROPOSED
HIGHWAY PLANS**
F.A.P. 326 (IL 47) & F.A.S. 268A (CH 15)
SECTION [(111BR, BR-1)(1B-1)]BP
PROJECT: STP-G1UZ(974)
BRIDGE BEAM END CLEANING AND PAINTING
GRUNDY & LASALLE COUNTY

C-93-066-20



PROJECT LOCATION 2
STRUCTURE NO. 050-0219
F.A.S. 268A (CH 15) CARRYING
OVER THE ILLINOIS RIVER
.41 MILES SOUTH OF US 6

PROJECT LOCATION 1
STRUCTURE NO. 032-0099
F.A.P. 326 (IL 47) CARRYING
OVER THE ILLINOIS RIVER
1.23 MILES SOUTH OF US 6



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: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66K89

PROJECT LOCATION 2

GROSS LENGTH = 1,660 FT. = 0.31 MILE
NET LENGTH = 1,650 FT. = 0.31 MILE

PROJECT LOCATION 1

GROSS LENGTH = 1,730 FT. = 0.33 MILE
NET LENGTH = 1,730 FT. = 0.33 MILE

FUNCTIONAL CLASSIFICATION

URBAN	RURAL
OTHER ARTERIAL	MAJOR COLLECTOR
F.A.P. ROUTE 57 (IL 47)	F.A.S. 268A (CH 15)
2019 ADT = 18900	2016 ADT = 4450
P.V. 87.31% S.U. 6.61% M.U. 6.08%	P.V. 90.56% S.U. 7.87% M.U. 1.57%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17 20 20

[Signature] REGIONAL ENGINEER

MAY 8 20 20

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

MAY 8 20 20

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

STRUCTURE NO. 032-0099 SHALL BE DESIGNATED AS "LOCATION 1".

STRUCTURE NO. 050-0219 SHALL BE DESIGNATED AS "LOCATION 2".

THE SSPC-QPI AND SSoC-QP-2 "PAINTING CONTRACTOR CERTIFICATION" WILL BE REQUIRED FOR THIS PROJECT.

A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR EACH STRUCTURE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS AS DIRECTED BY THE ENGINEER. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".)

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

a) ALL EXISTING STRUCTURAL STEEL, WITHIN A DISTANCE OF 15' AS MEASURED FROM END OF EACH BEAM, INCLUDING BEAMS/GIRDERS, DIAPHRAGMS BEARING STIFFENERS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF BEARINGS, DRAINS AND OTHER RELATED STEEL COMPONENTS SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPS-SP-10.

b) ALL EXISTING STRUCTURAL STEEL, WITHIN A DISTANCE OF 15' AS MEASURED FROM END OF EACH BEAM, INCLUDING BEAMS/GIRDERS, DIAPHRAGMS BEARING STIFFENERS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF BEARINGS, DRAINS AND OTHER RELATED STEEL COMPONENTS SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1-OZ-E-U".

1. THE FINAL FINISH COAT FOR "ALL" STRUCTURAL STEEL SHALL BE "RED BROWN, MUNSELL NO. 2.5 YR 3/4".

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LISCENSED TO DISPOSE OF NON-LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED COMPLETION DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN PROPERLY REMOVED AND DISPOSED OF.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Tom Beaulieu
DISTRICT STUDIES & PLANS ENGINEER

DATE: March 17, 2020

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(((111BR, BR-1)) (18-1);)BP	GRUNDY LASALLE	55	2
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING	BRIDGE PAINTING
				80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE
				0047	0047
				RURAL	URBAN
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	0.5	0.5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	15	8	7
70400100	TEMPORARY CONCRETE BARRIER	FOOT	800	400	400
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	800	400	400
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	2	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	2	1
* 78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	530	530	0
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	100	0	100
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	306	256	50
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	0.5	0.5

*= SPECIALTY ITEM

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PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	3
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE PAINTING	BRIDGE PAINTING
				80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE
				0047	0047
				RURAL	URBAN
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	0.5	0.5
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	0.5	0.5
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	0.5	0.5

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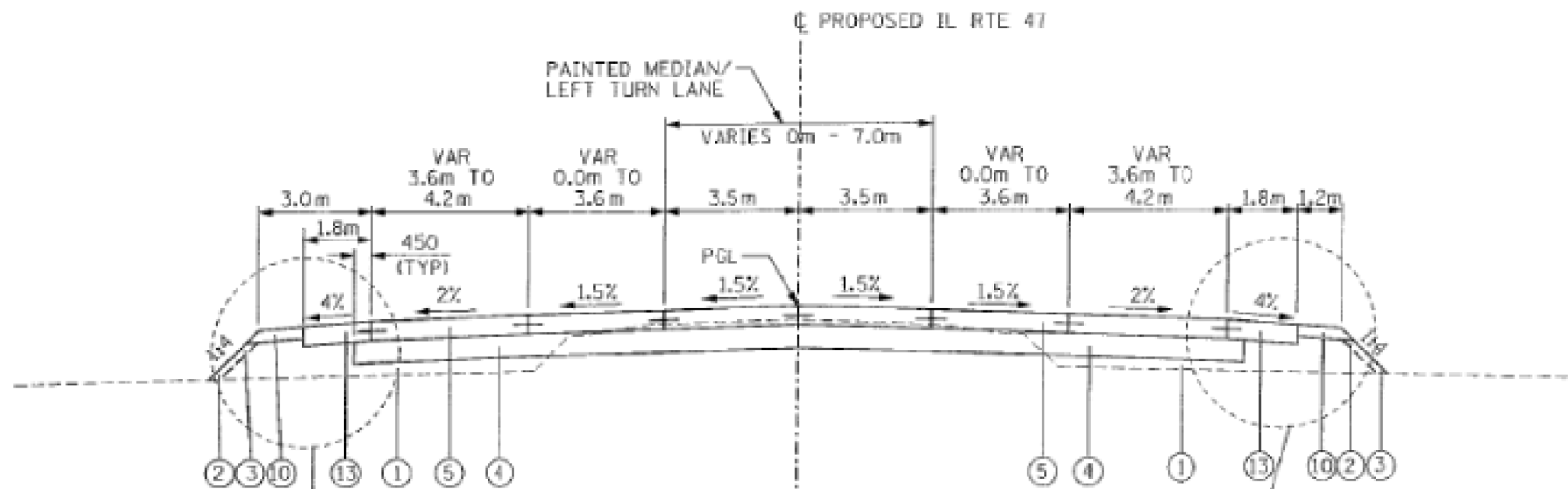
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PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

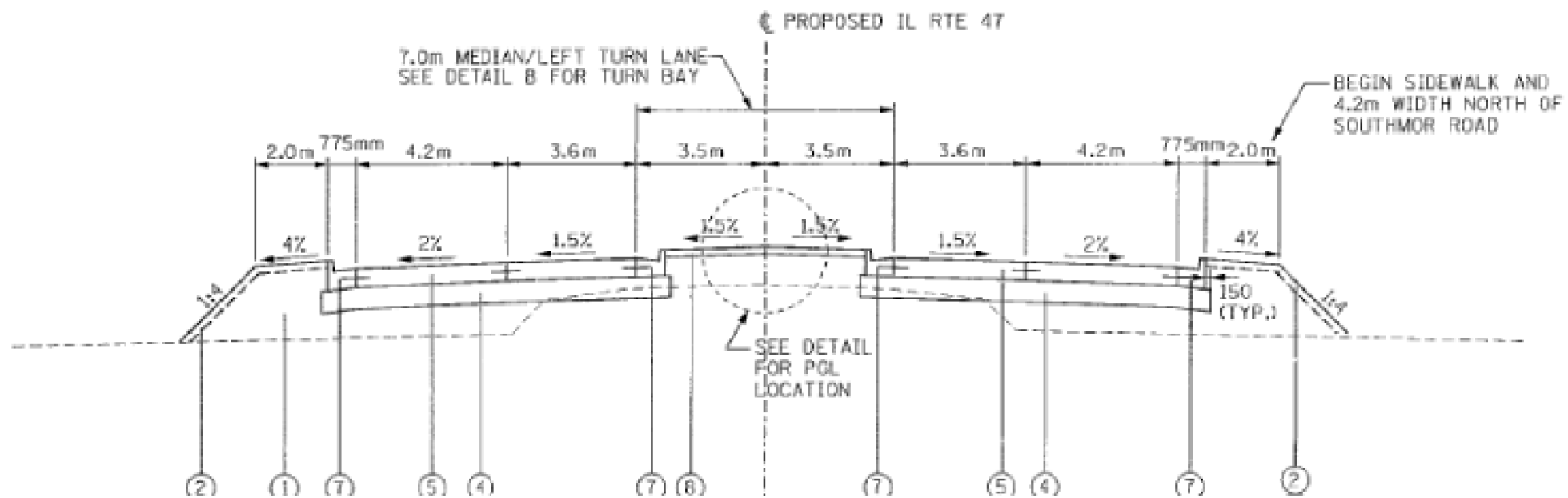
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	4
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL IL ROUTE 47

STA. 24+650 - STA. 24+939.221



EXISTING TYPICAL IL ROUTE 47

STA. 24+939.221 - STA. 25+585.671

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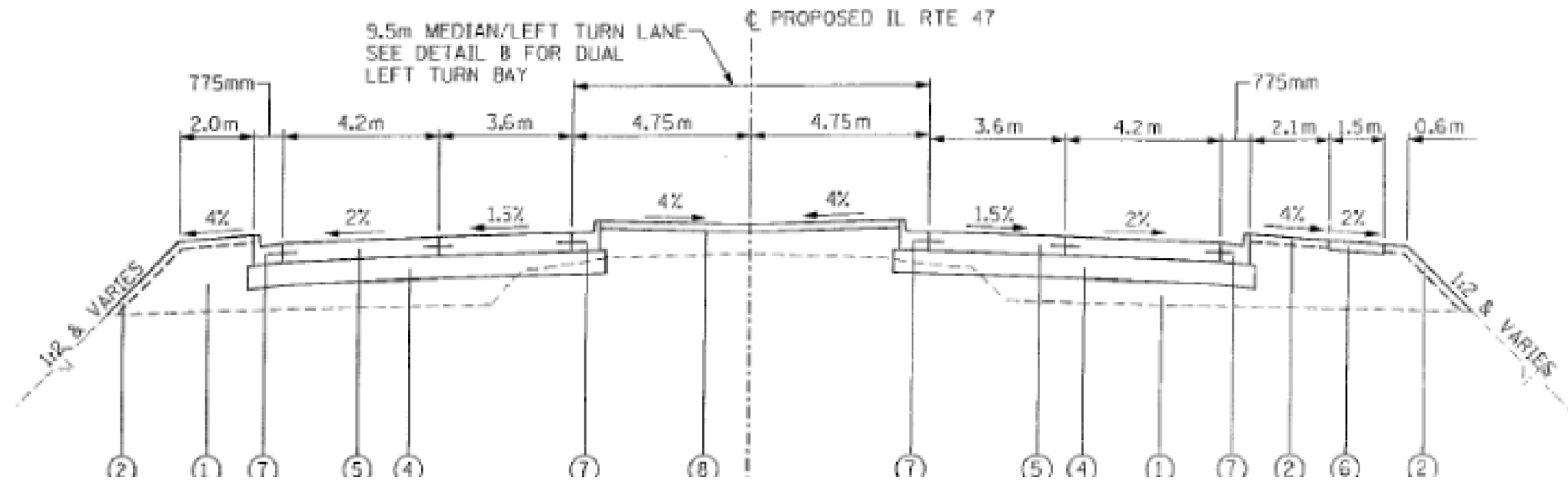
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PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS FOR
STRUCTURE NO. 032-0099**

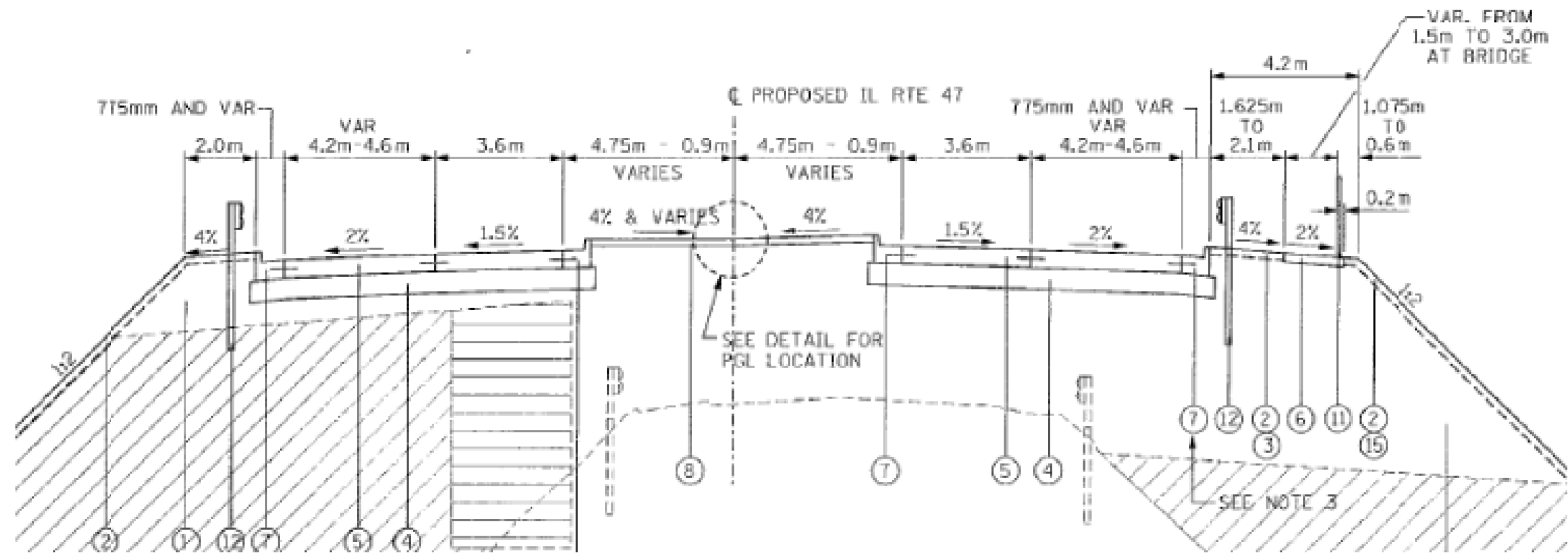
SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	5
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL IL ROUTE 47

STA. 25+678.171 - STA. 26+038.000



EXISTING TYPICAL IL ROUTE 47

STA. 26+038 - STA. 26+749.050

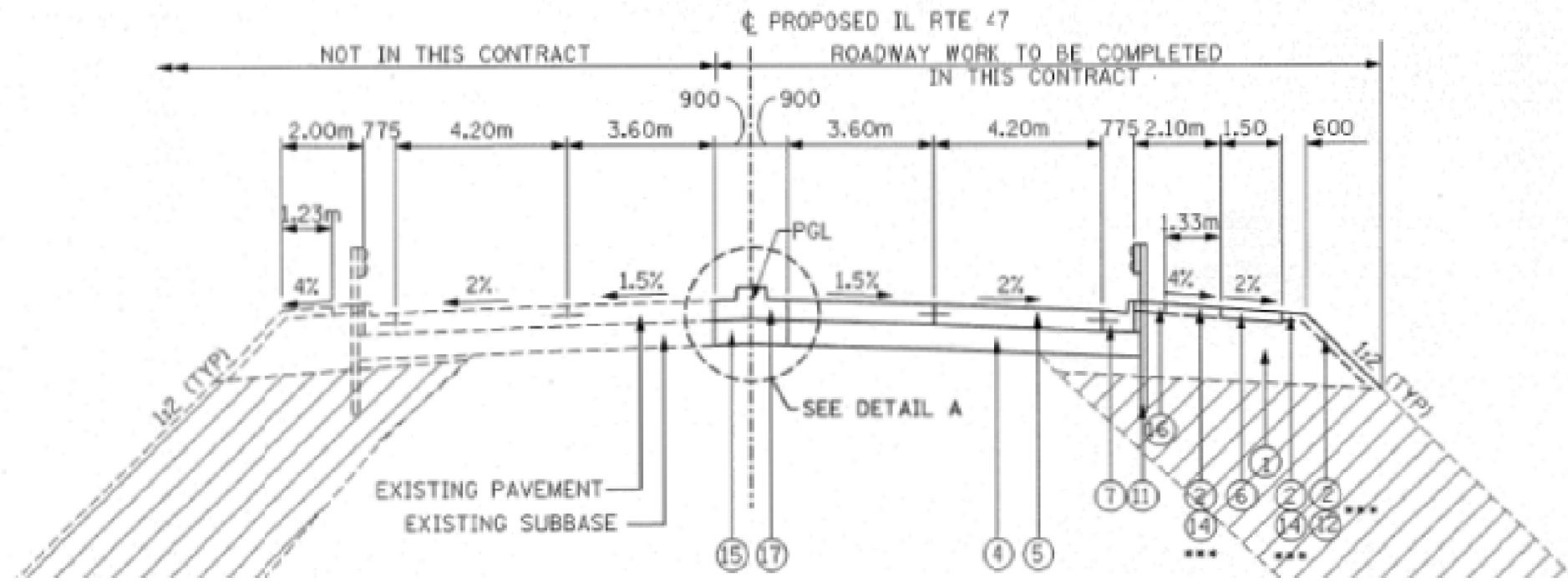
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

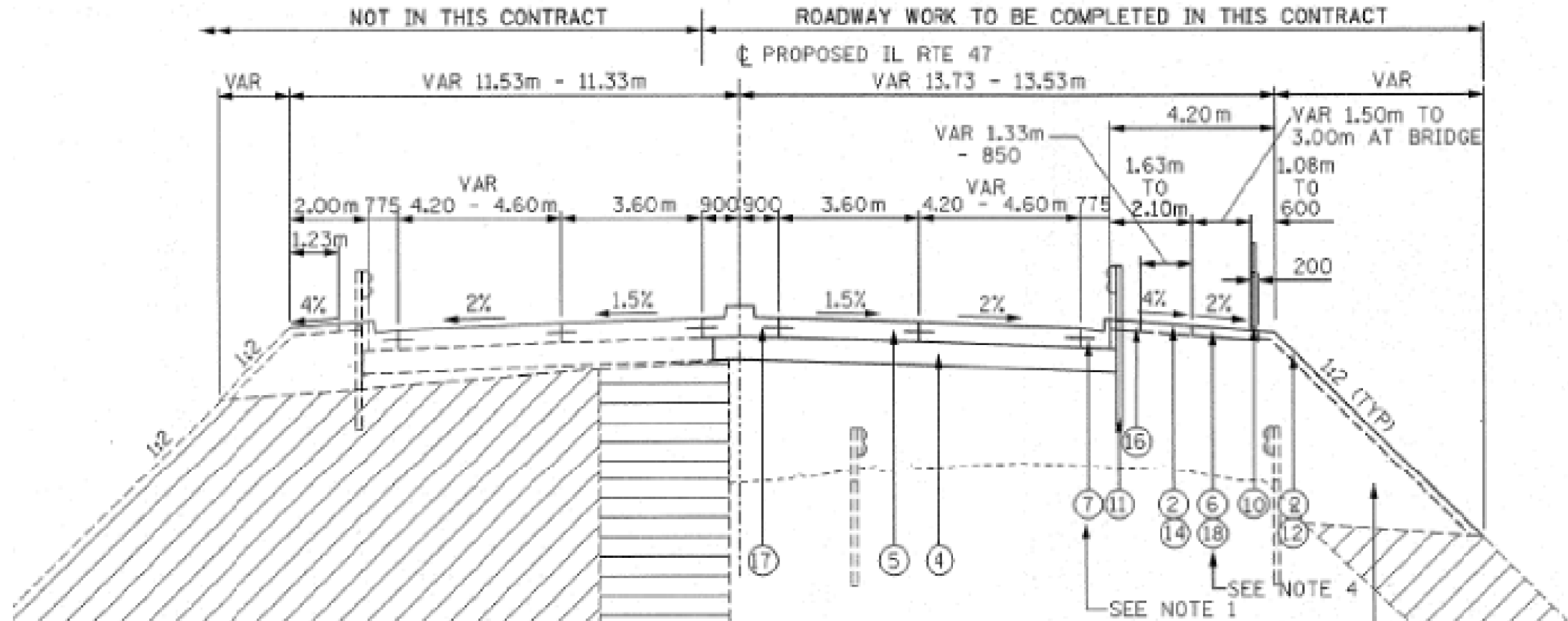
TYPICAL SECTIONS FOR STRUCTURE NO. 032-0099			
SCALE: _____	SHEET 2	OF 4 SHEETS	STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	6
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL IL ROUTE 47

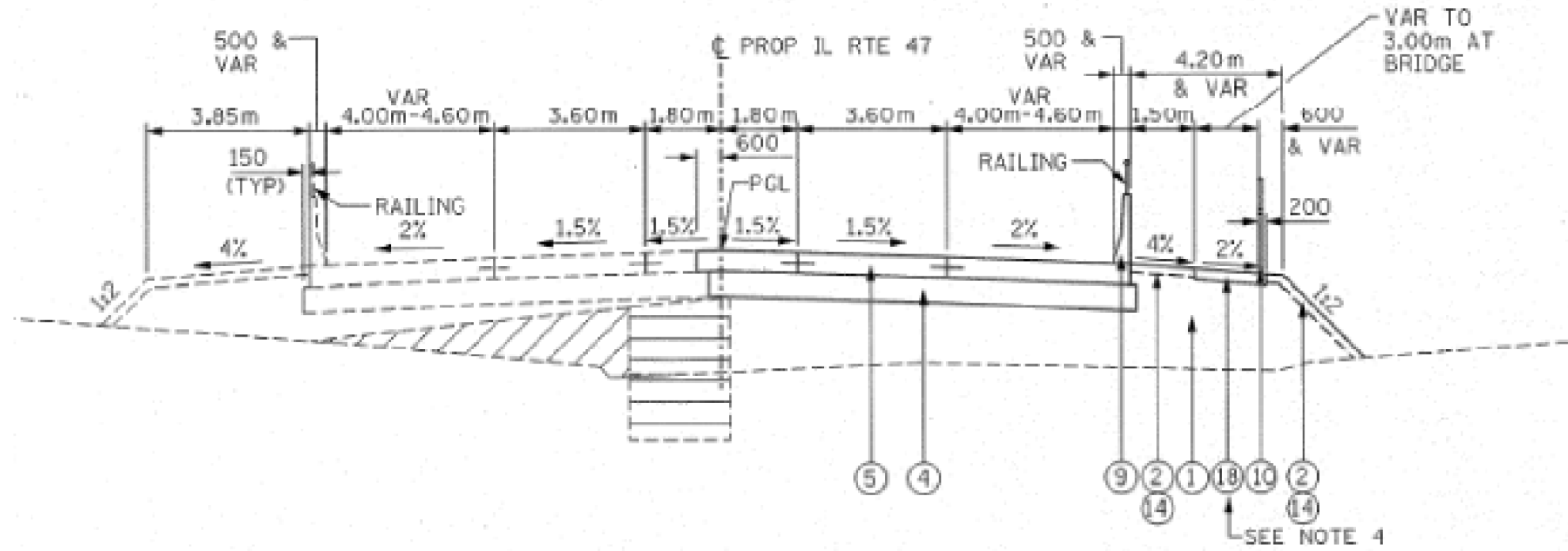
STA. 26+455.950 - STA. 26+638.000



EXISTING TYPICAL IL ROUTE 47

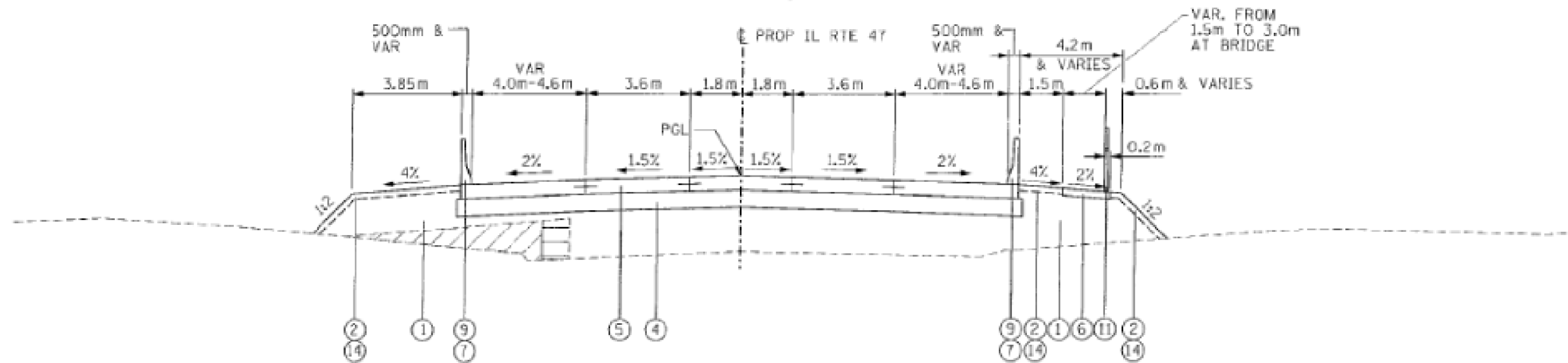
STA. 27+276.200 - STA. 27+285.200

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PLOT SCALE = 100.0000' / in.	DRAWN - TG	REVISED - _____		SCALE: _____	SHEET 3 OF 4 SHEETS	STA. _____ TO STA. _____	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	7
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED - _____					*FAP 326 (IL 47) & FAS 268A (CH 15)	CONTRACT NO. 66K89		
	DATE - 3/5/2020	REVISED - _____					ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL IL ROUTE 47

STA. 27+276.200 - STA. 27+285.200



EXISTING TYPICAL IL ROUTE 47

STA. 27+276.200 - STA. 27+305

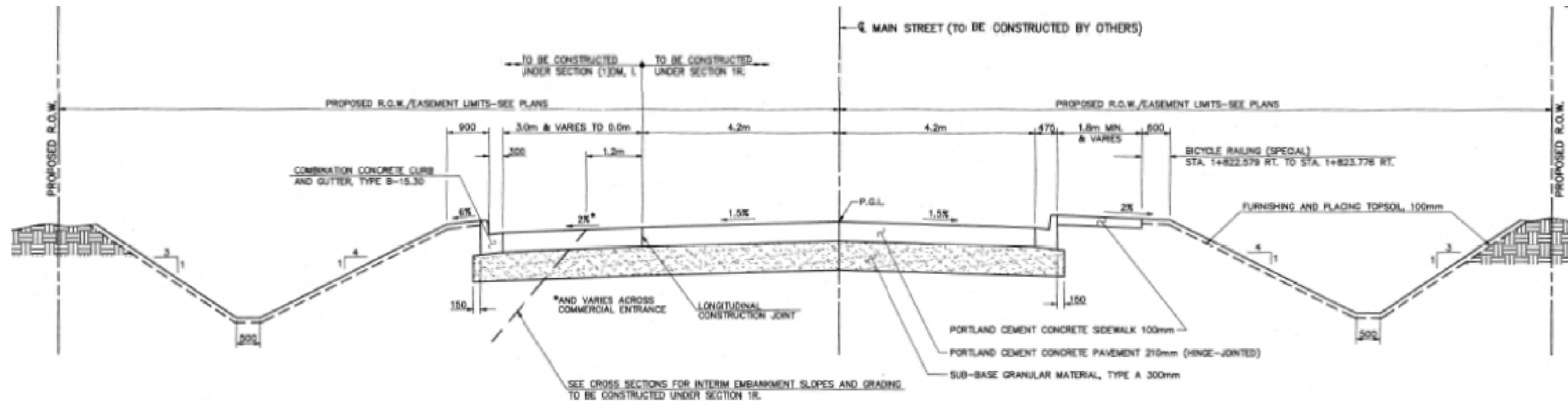
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

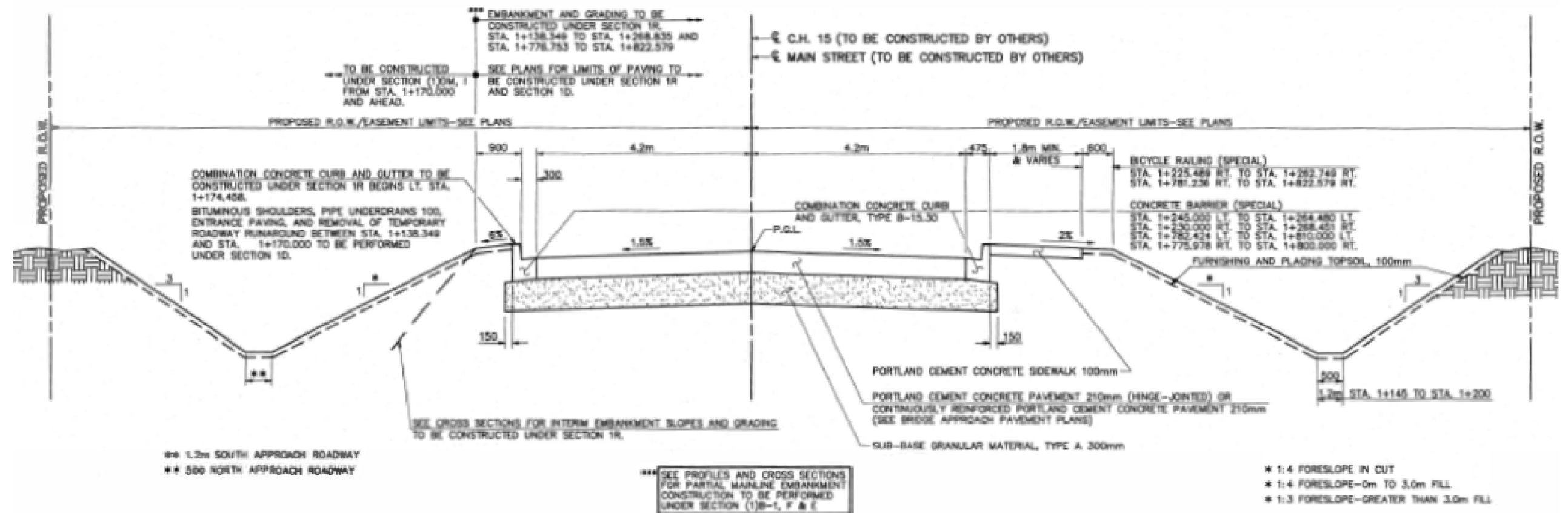
TYPICAL SECTIONS FOR STRUCTURE NO. 032-0099			
SCALE: _____	SHEET 4	OF 4 SHEETS	STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	8
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL – MAIN STREET

STA. 1+822.579 - STA. 1+953.511



EXISTING TYPICAL – C.H. 15/MAIN STREET

STA. 1+138.349 - STA. 1+266.835

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PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION FOR STRUCTURE NO. 050-0219	
SCALE: _____	SHEET 1 OF 1 SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[[111BR, BR-1(1B-1)]BP	GRUNDY, LASALLE	55	9
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

PAINTING SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	POLYUREA PAVEMENT MARKING TYPE I - 6"	PREFORMED PLASTIC PAVEMENT MARKING TYPE B - 6"	PAVEMENT REMOVAL - WATER BLASTING
STRUCTURE NO.	FT	FT	EACH	EACH	SQ FT	SQ FT	SQ FT
050-0219	400	400	2	2		530	256
032-0099	400	400	1	1	100		50
TOTALS	800	800	3	3	100	530	306

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	DRAWN - TG	REVISED - _____
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PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

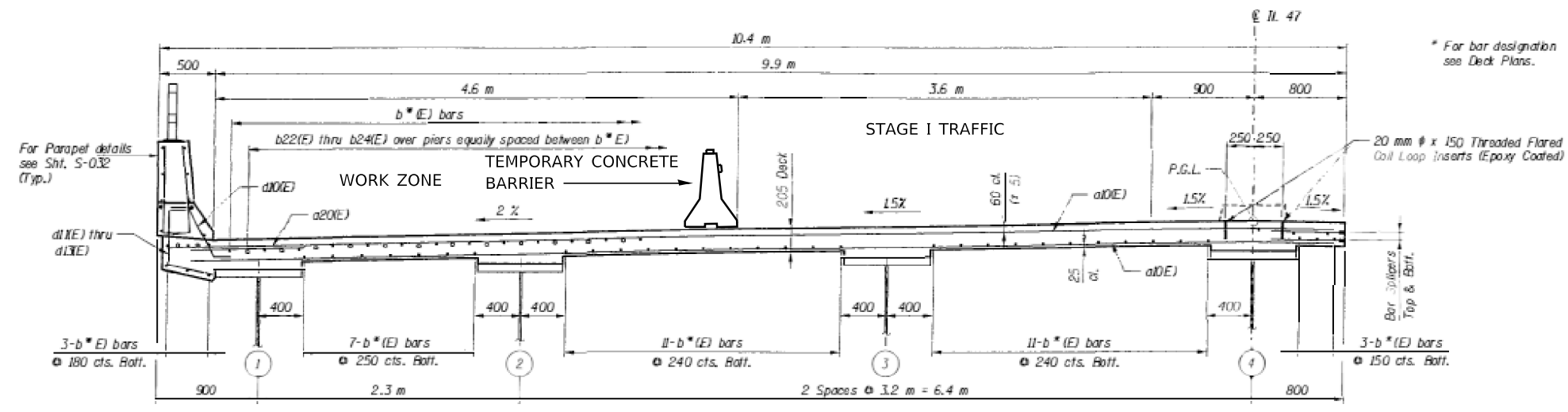
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE FOR
STRUCTURES NO. 032-0099 AND 050-0219**

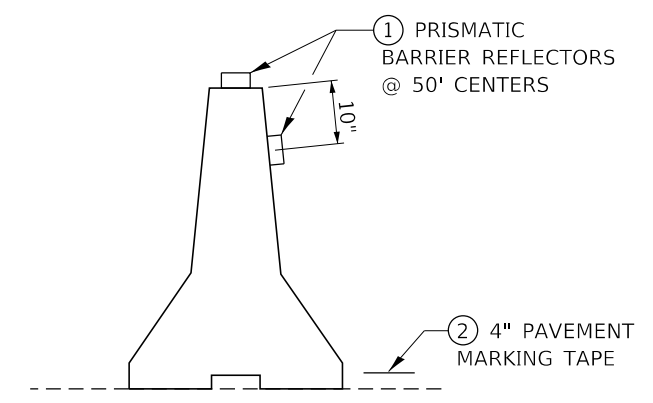
SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	10
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS	FED. AID PROJECT	

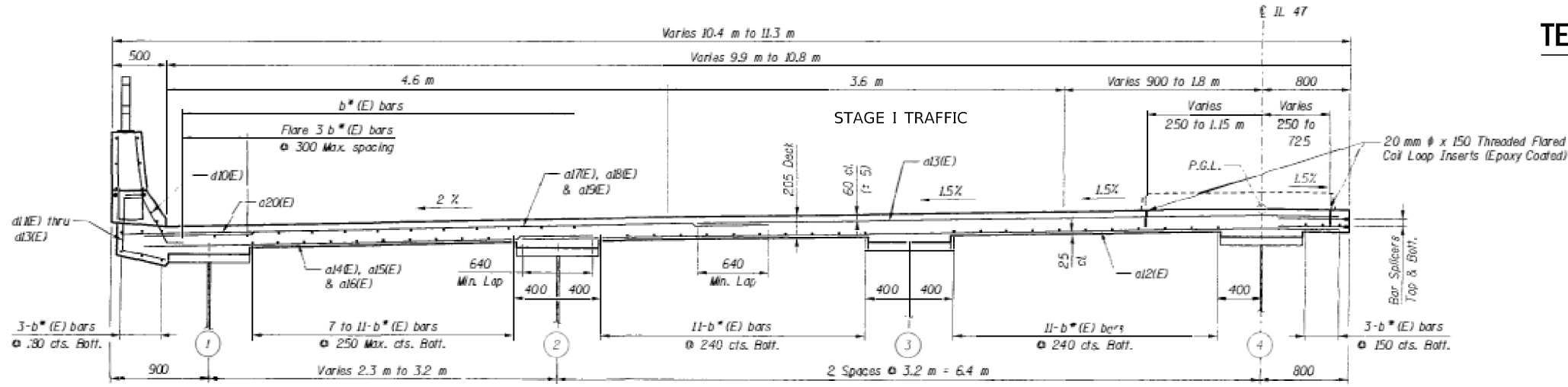
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	145	105
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
• (11) BR				



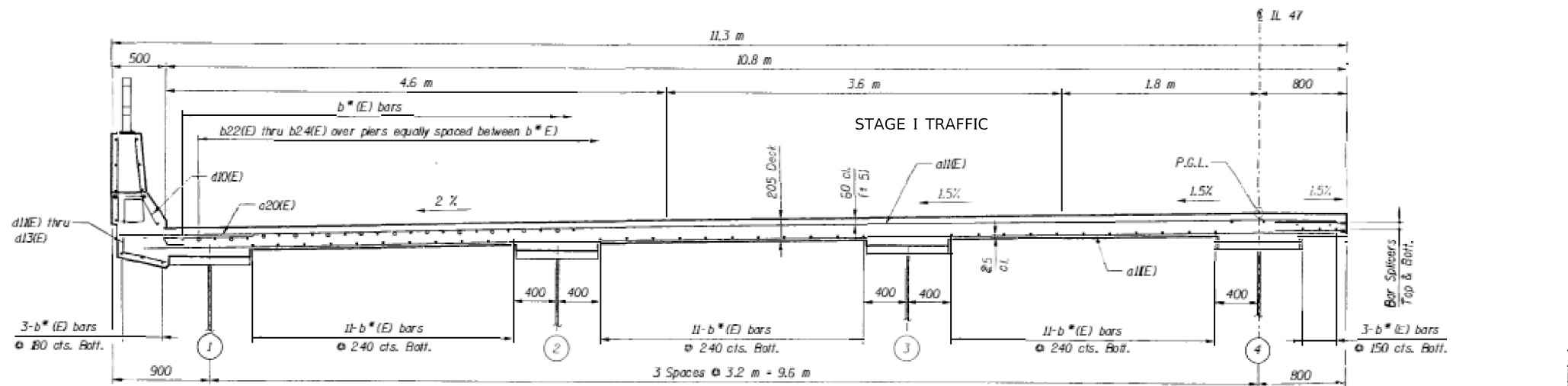
DECK CROSS SECTION A-A
STAGE I TRAFFIC



TEMPORARY CONCRETE BARRIER



DECK CROSS SECTION B-B
STAGE I TRAFFIC



DECK CROSS SECTION C-C
STAGE I TRAFFIC

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
 - Bars designated (E) shall be epoxy coated.
 - Work this sheet with Shts. S-019 thru S-027.
 - Cost of Threaded Flared Coil Loop Inserts Included with Reinforcement Bars, Epoxy Coated.
 - For Parapet Elevations see Shts. S-029 thru S-031.
 - For Bar List & Bill of Material see Sht. S-033.

FOR INFORMATION ONLY

SHT. S-028

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 47 OVER IAW CANAL AND ILLINOIS RIVER
F.A. RTE 326 SEC (11) (1) BR-1 (11) BR-1 (11) BR-1
STRUCTURE NUMBER 032-0099
STATION 27+03.200, GRUNDY COUNTY
PUBLIC WATERS

**DECK CROSS SECTIONS
SOUTH BOUND**

DATE: 11/10/00

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

USER NAME = woodshankr	DESIGNED - TG	REVISED - _____
	DRAWN - TG	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED - _____
PLOT DATE = 3/17/2020	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

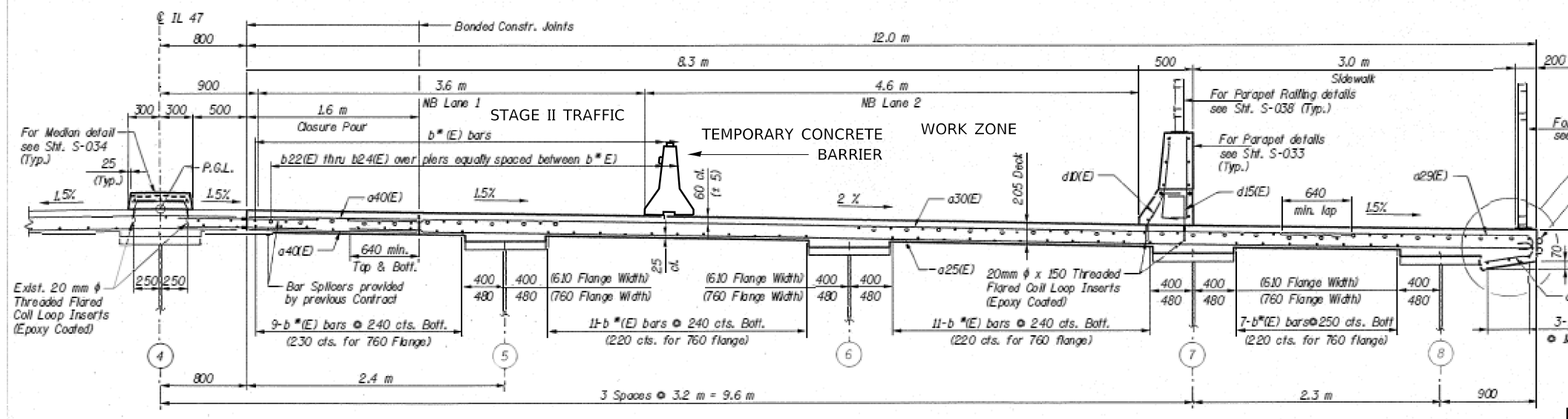
**CROSS SECTIONS AND STAGING DETAILS FOR
STRUCTURE NO. 032-0099**

SCALE: _____ SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	[(11)BR-1](1B-1)BP	GRUNDY, LASALLE	55	11
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

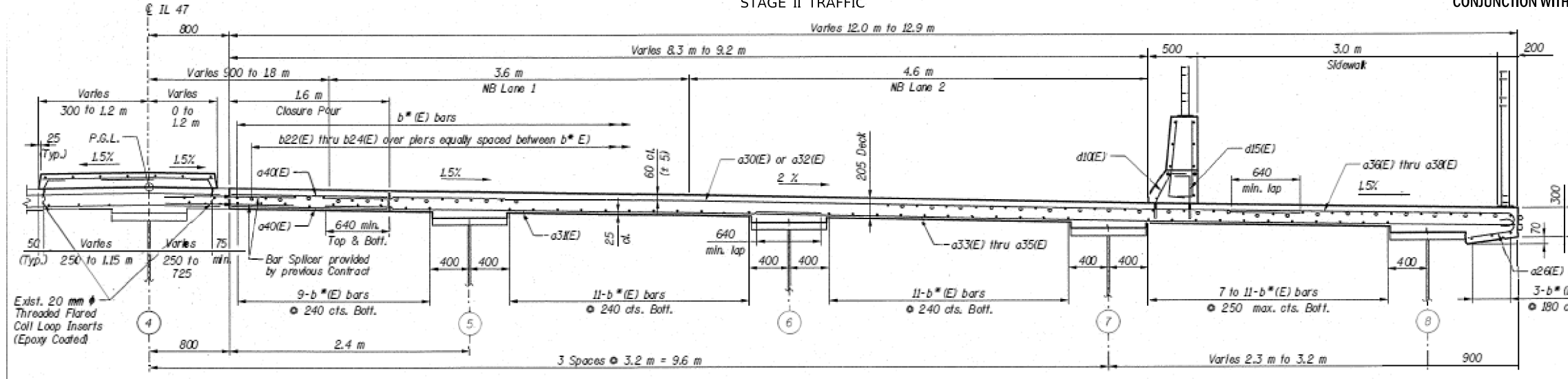
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	137	097
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		111BR-1, DM		

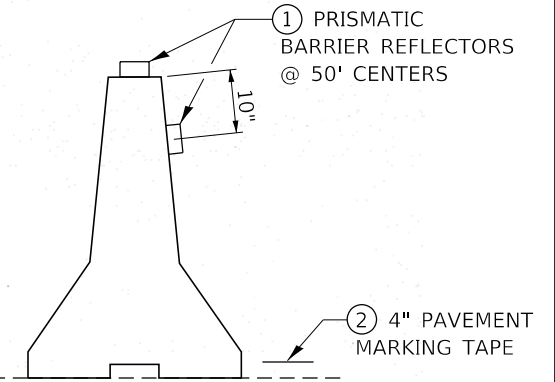


DECK CROSS SECTION A-A
STAGE II TRAFFIC

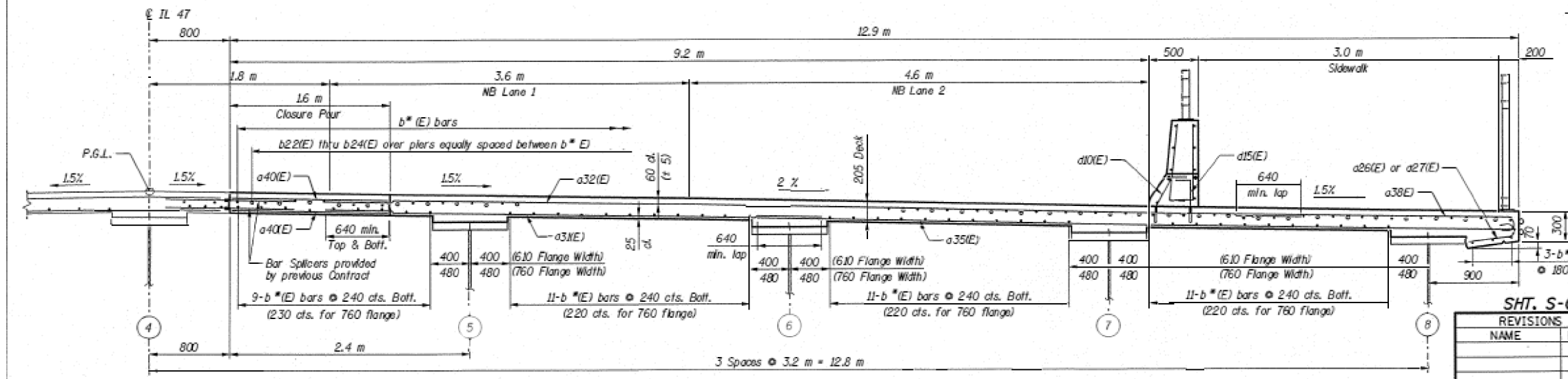
NOTE:
TEMPORARY CONCRETE BARRIER ONLY REQUIRED AT THE SOUTH ABUTMENT IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701423



DECK CROSS SECTION B-B
STAGE II TRAFFIC



TEMPORARY CONCRETE BARRIER



DECK CROSS SECTION C-C
STAGE II TRAFFIC

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
 - Bars designated (E) shall be epoxy coated.
 - Work this sheet with Shts. S-020 thru S-028.
 - For Parapet Elevations see Shts. S-030 thru S-032.
 - For Bar List & Bill of Material see Sht. S-034.
 - For Detail 1 see Sht. S-033.
 - Cost of Threaded Flared Coil Loop Inserts included with Reinforcement Bars, Epoxy Coated.

SH. S-029	
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111)BR-1 (11) BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200 GRUNDY COUNTY
 PUBLIC WATERS
 DECK CROSS SECTIONS
 NORTH BOUND
 DATE: 07/15/02
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FOR INFORMATION ONLY

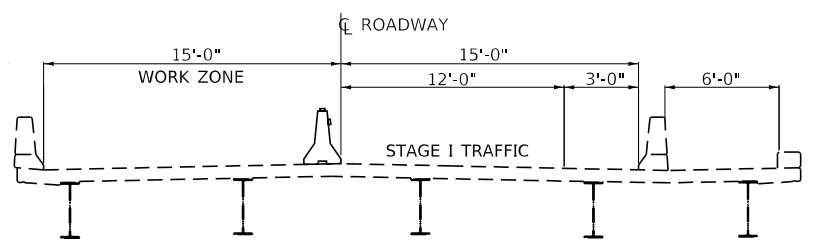
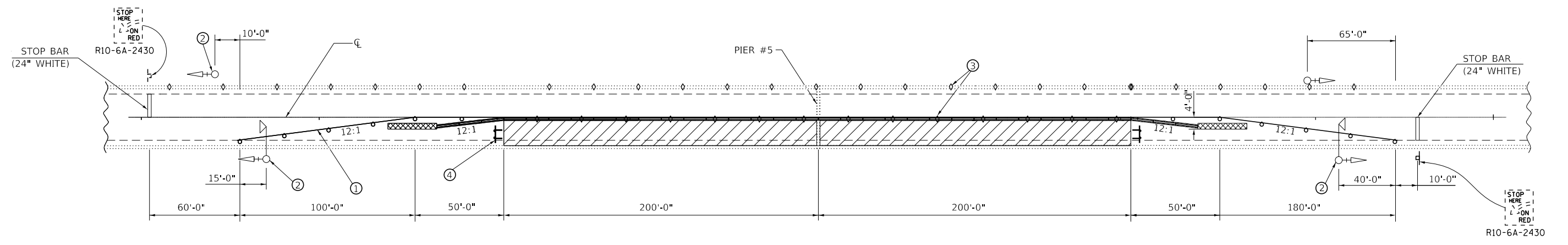
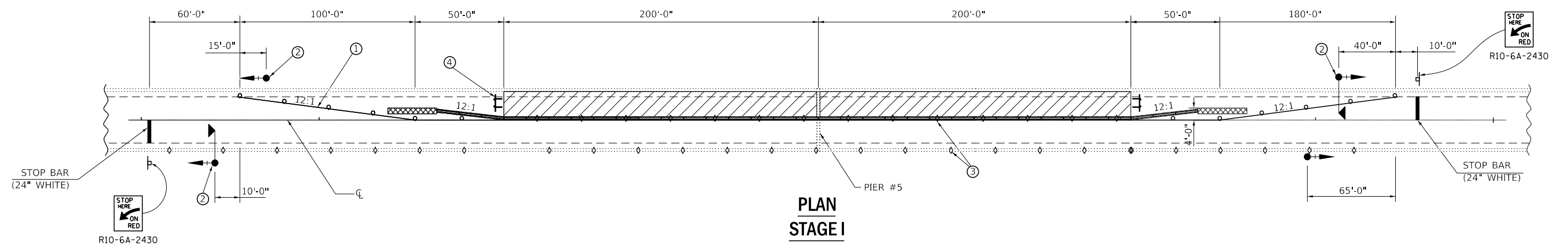
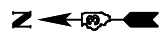
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PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/17/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

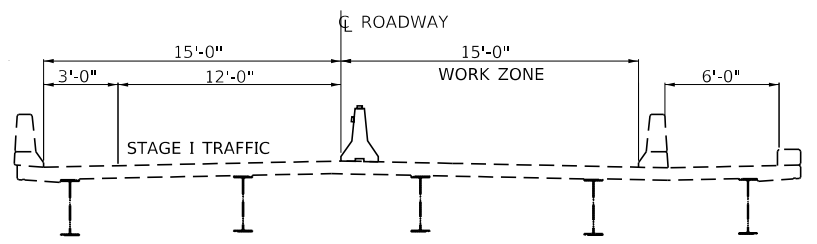
CROSS SECTIONS AND STAGING DETAILS FOR STRUCTURE NO. 032-0099			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	(111)BR-1(1B-1)BP	GRUNDY, LASALLE	55
SCALE:	SHEET 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 66K89

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(111)BR-1(1B-1)BP	GRUNDY, LASALLE	55	12
	*FAP 326 (IL 47) & FAS 268A (CH 15)	ILLINOIS	FED. AID PROJECT	

MODEL: Default
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**CROSS SECTION
STAGE I**
LOOKING SOUTH



**CROSS SECTION
STAGE II**
LOOKING SOUTH

**PLAN
STAGE II**

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL WITH BACKPLATE
- TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR
- TRAFFIC SIGNAL WITH BACKPLATE (INSTALLED IN STAGE I)
- TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR (INSTALLED IN STAGE I)
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (TAPERS)
- DRUM (TANGENTS)
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- TEMPORARY IMPACT ATTENUATOR

- ① TEMPORARY REFLECTORIZED PAVEMENT MARKING TAPE. (4")
- ② THE EDGE OF THE POST MOUNTED SIGNAL HEADSHALL BE BETWEEN 24 (610) AND 6' (1.8 M) FROM EDGE OF SHOULDER.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' (7.6 M) CTS. SEE STANDARDS 704001 & 782006.
- ④ TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.

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 OFFICE: \\bls01c01\pub\baronm.dwg
 DATE: 3/17/2020

USER NAME = woodshankr	DESIGNED - TG	REVISED - _____
PLOT SCALE = 100.0000' / in.	DRAWN - TG	REVISED - _____
PLOT DATE = 3/17/2020	CHECKED - RW	REVISED - _____
	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS - TRAFFIC CONTROL AND PROTECTION,
STANDARD 701321 AT PIER #5 "ONLY" FOR STRUCTURE NO. 050-0219**

SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

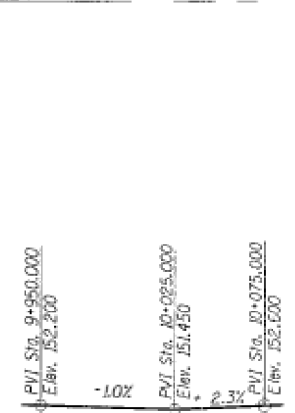
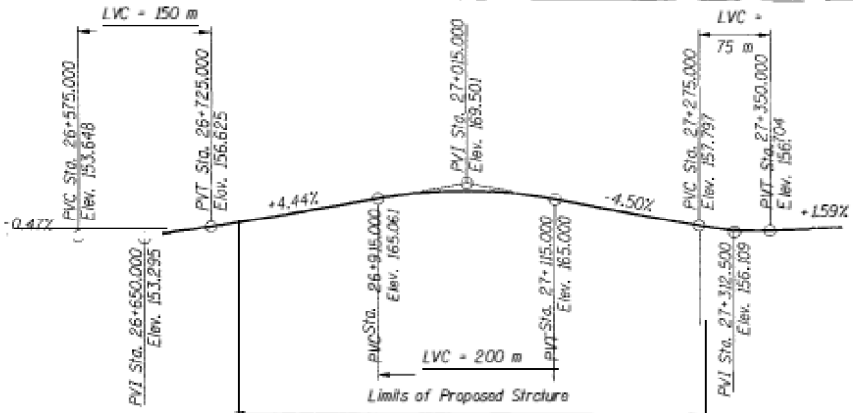
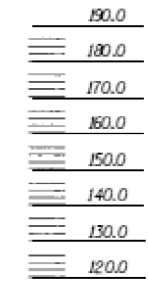
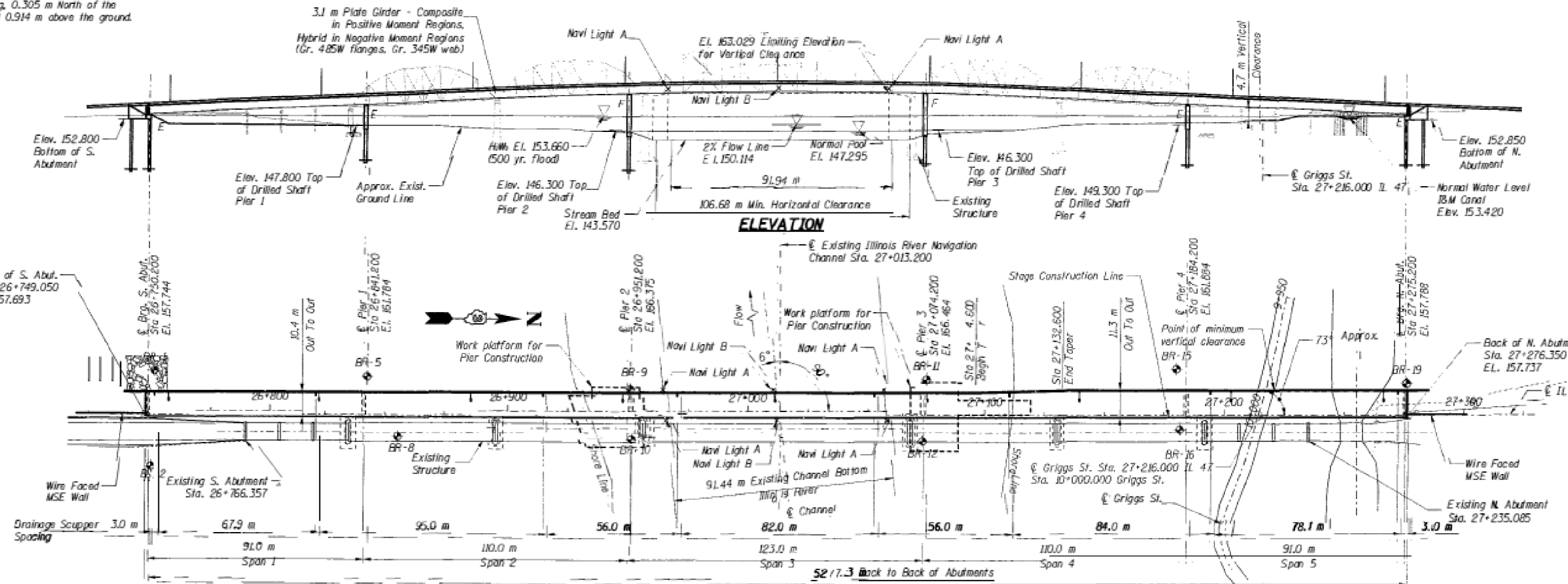
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[[111BR, BR-1](1B-1)]BP	GRUNDY, LASALLE	55	13
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

RT#	SECTION	COUNTY	SHEET NO.
326		GRUNDY	145 07B
STA. TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

• (11) BR

BENCHMARK

U.S.G.S. Benchmark "D 141 1947" at Morris Illinois about 0.556 km North along State Highway 47 from the Courthouse, at the Northeast corner of the intersection of Division Street (State Highway 47) and Chapin Street, set vertically in the East face of the Southeast corner of the Morris Center School Building, 0.305 m North of the Southeast corner and 0.914 m above the ground. Elevation 161.645.



GENERAL PLAN

Soil Boring Location

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGE AND STRUCTURES

EXISTING STRUCTURES:

Existing Structure: SN 032-0029. 11 spans, 444.443 m Bk. to Bk. of abutments. Built in 1933. Three simple, multiple stringer, north and south approach spans (14.78 m, 14.33 m and 14.63 m) two simple north and south steel Pratt through truss approach spans (61.48 m and 61.58 m) and the main simple steel Pratt through truss span (11.05 m) over the Illinois River for a total of eleven (11) spans. The roadway width is 7.01 m from edge to edge of curb. The substructure consists of reinforced concrete elements with piles.

Existing Structure: SN 032-0069. Single, multiple stringer, 5.18 m simple span, with timber/timber pile substructure. The roadway width is 7.10 m between existing railings with no shoulders or median.

The existing structures are to remain in place during the construction phase indicated in these plans. As part of a future contract, the structure shall be removed and the construction of the five-span continuous steel plate girder bridge will be completed. Roadway to remain open to two-way traffic utilizing stage construction.

No Salvage.

Notes:

- All dimensions are in millimeters (mm) except as noted.
- NAVI Light A - Permanent Navigational Light (180° red light and reflector).
- NAVI Light B - Permanent Navigational Light (360° green light and reflector).
- E Indicates Guided Expansion Pot Bearings. F Indicates Fixed Pot Bearings.

DESIGN SPECIFICATIONS:

1996 AASHTO Standard Specifications for Highway Bridges 1997 thru 1999 Interim Specifications. AASHTO Guide Specifications & Commentary for Vessel Collision Design of Highway Bridges, Method I.

DESIGN LOADING:

Roadway Live Load: MS-18
Sidewalk Live Load = 1.7 kN/m²
Future Wearing Surface = 2.4 kN/m²

DESIGN STRESSES:

Concrete, f'c = 24 MPa
Reinforcement, fy = 400 MPa
Structural Steel, fy = 345 MPa (M270 M Grade 345W)
fy = 485 MPa (M270 M Grade 485W (HPS))
fy = 250 MPa (M270 M Grade 250)

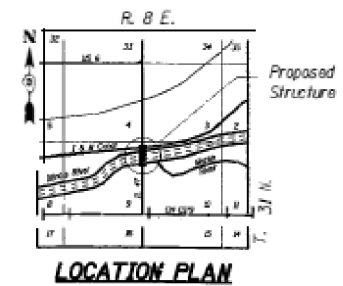
SEISMIC DATA:

Seismic Performance Category (SPC) = A
Importance Classification = I
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area = 19365.7 km² Low Grade Elev. 153.73 m @ Sta. 26+100 to 26+100

Flood	Freq. Yr.	Q m ³ /sec	Opening Sq. m		Nat. H.W.E. m		Head - m		Headwater Elev. m	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Deakin	50	2435	4072.4	4081.3	152.00	0.08	0.07	152.08	152.07	
			5258.6	5244.1	152.77	0.09	0.08	152.86	152.85	
Base Overflows Max. Conc.	100	2858	5668.5	5654.1	153.03	0.09	0.08	153.13	153.12	
			6585.3	6566.5	153.66	0.09	0.09	153.70	153.70	



Best Date 11/31/00 Expires 11/30/02

FOR INFORMATION ONLY

SHT. S-001

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 47 OVER IAW CANAL AND ILLINOIS RIVER
F.A. RTE 326 SEC (111)BR W&S-3 (11) BR, BR-1
STRUCTURE NUMBER 032-0099
STATION 27+013.200, GRUNDY COUNTY
PUBLIC WATERS

GENERAL PLAN AND ELEVATION SOUTH BOUND

DATE: 01/31/01

TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

REVISIONS	
NAME	DATE

USER NAME = grunstadaj	DESIGNED - TG	REVISED -
PLOT SCALE = 100.0000 / 1 in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

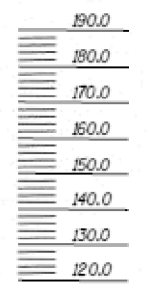
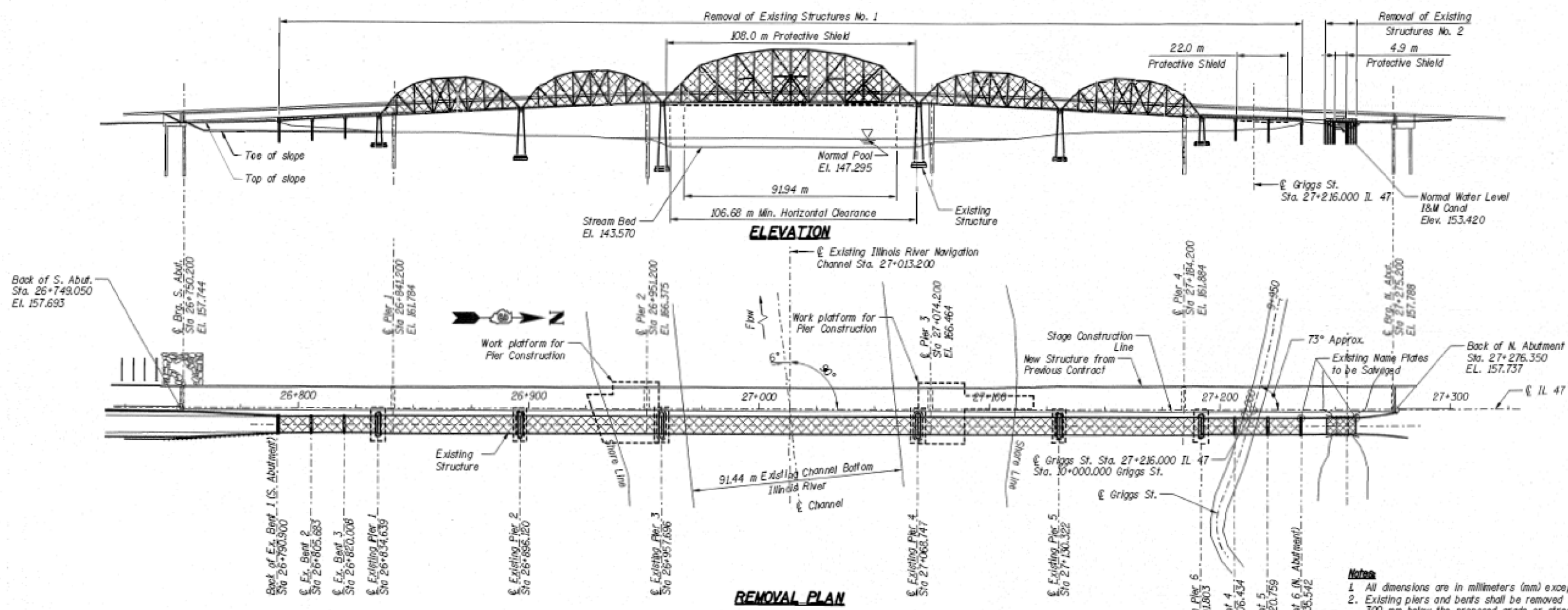
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLANS AND ELEVATIONS FOR
STRUCTURE NO. 032-0099

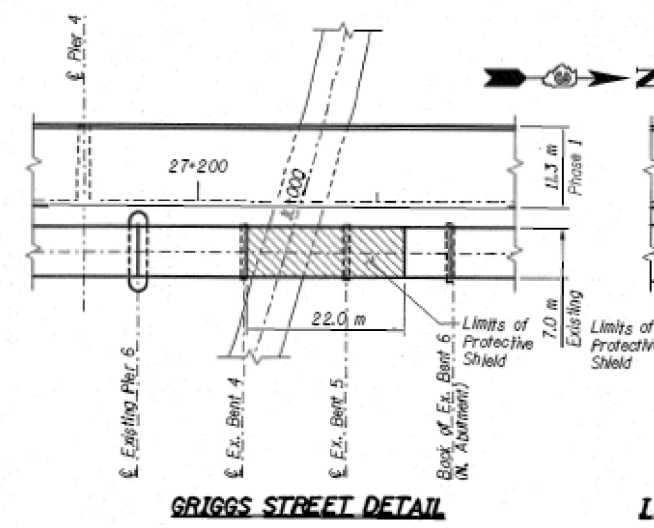
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(11)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	14
	*FAP 326 (IL 47) & FAS 268A (CH 15)	CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

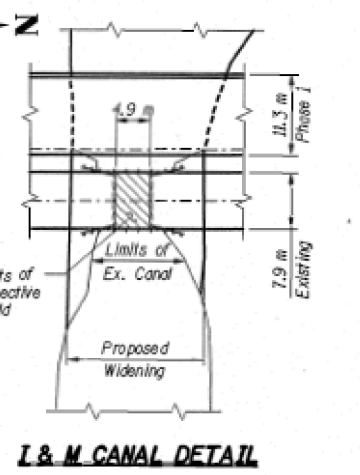
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	GRUNDY	137	072
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



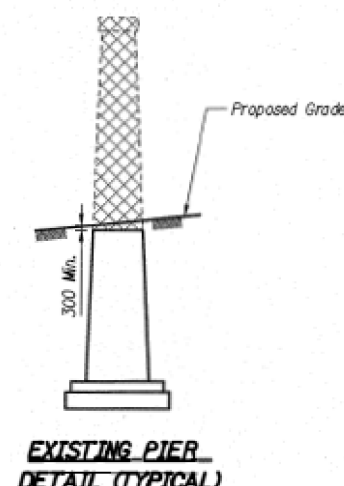
- Notes**
- All dimensions are in millimeters (mm) except as noted.
 - Existing piers and bents shall be removed to at least 300 mm below the proposed grade or stream bed.
 - Existing concrete-encased timber piles supporting SN 032-0069 shall be removed to at least 300 mm below the proposed stream bed of the I & M Canal.
 - Existing Piers 3 and 4 shall remain in place until after proposed Piers 2 and 3 are complete and the Work Platforms have been removed.
 - For additional details of existing structures refer to attached record plans.



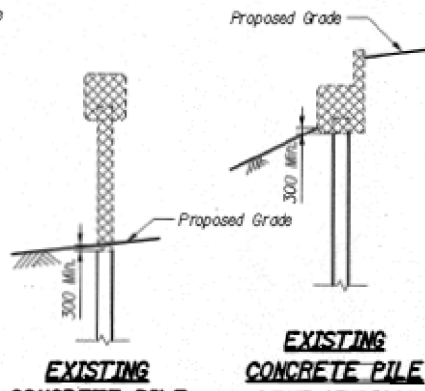
FOR INFORMATION ONLY



The concrete-encased timber piles that support the abutments and wingwalls of SN 032-0069 shall be removed to a depth of at least 300 mm below the proposed stream bed of the I & M Canal. This work shall be included in Removal of Existing Structures No. 2.



Piers shall be removed to at least 300 mm below the proposed grade or stream bed. The cost of this work shall be included with Removal of Existing Structures No. 1.



Structure	Elevation (m)
Bent 1	154.0
Bent 2	150.6
Bent 3	150.0
Pier 1	149.7
Pier 2	148.1
Pier 3	143.57
Pier 4	143.57
Pier 5	149.5
Pier 6	150.8
Bent 4	151.1
Bent 5	151.9
Bent 6	153.5

Item	Unit	Total
Removal of Existing Structures No. 1	Each	1
Removal of Existing Structures No. 2	Each	1
Protective Shield	Sq m	949

NAME	DATE

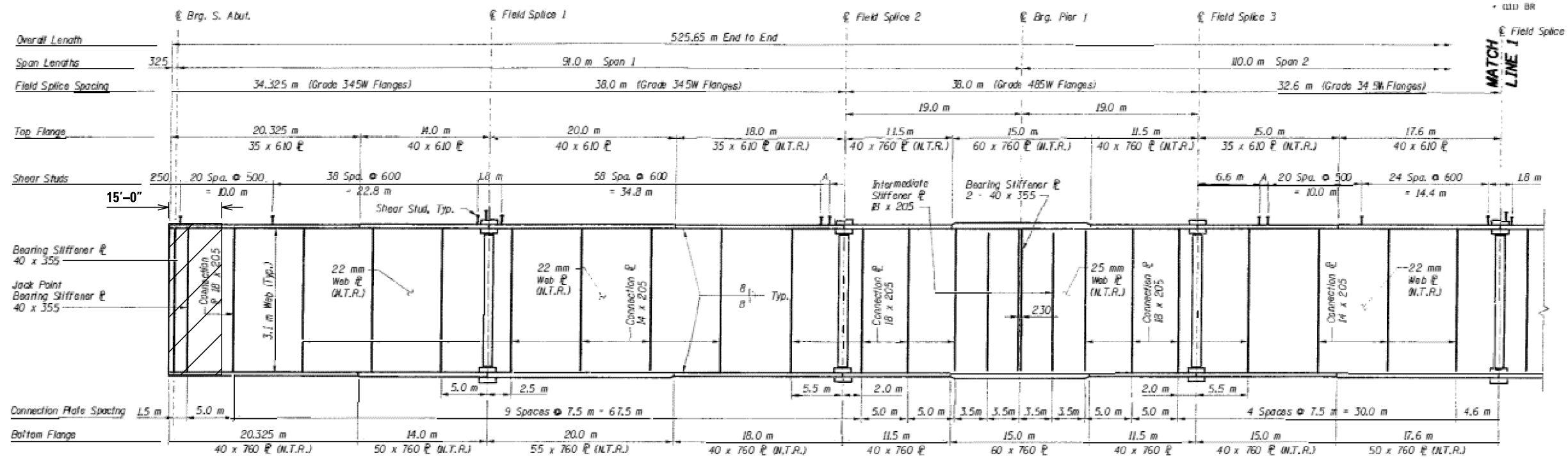
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEE (111)BR-1(1B-1)BP
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WORKS
 STRUCTURE REMOVAL
 NORTH BOUND
 DATE: 07/15/02
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

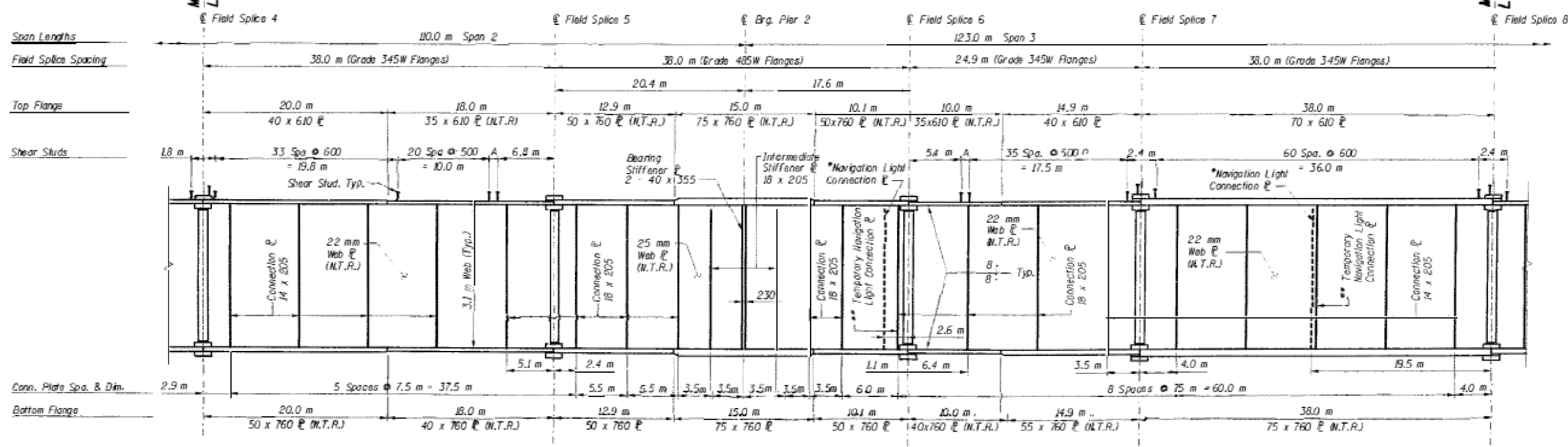
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLANS AND ELEVATIONS FOR
 STRUCTURE NO. 032-0099
 SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

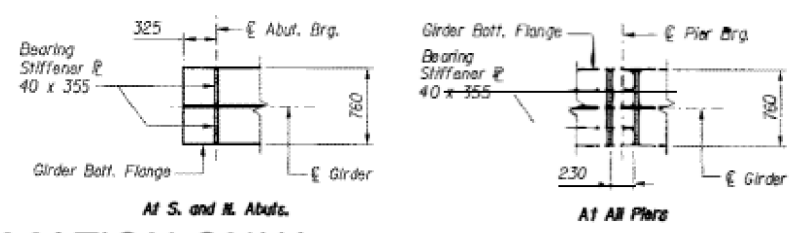
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[(111)BR-1](1B-1)BP	GRUNDY, LASALLE	55	15
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		



GIRDER ELEVATION



GIRDER ELEVATION



PLAN - BEARING STIFFENER DETAIL

Notes:

- All dimensions are in millimeters (mm) except as noted.
- All steel shown on this sheet shall be AASHTO M 270W Grade 345W except Girder Flanges which shall be Grade 485W in the negative moment regions as indicated.
- NT.R. denotes steel subject to Supplemental Requirements for Match Toughness (Zone 2).
- For Structural Steel details, see Sheet S-044.
- For Camber Diagram and Top of Web Elevations, see Sheet S-047.
- For Field Splices details, see Sheet S-046.
- "A" denotes 5 Spaces @ 100 = 600".

SHT. S-042

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAW CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111,118) WARS-5 (111) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

**GIRDER ELEVATIONS I
 SOUTH BOUND**

DATE: 11/10/00
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
DRAWN - TG	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

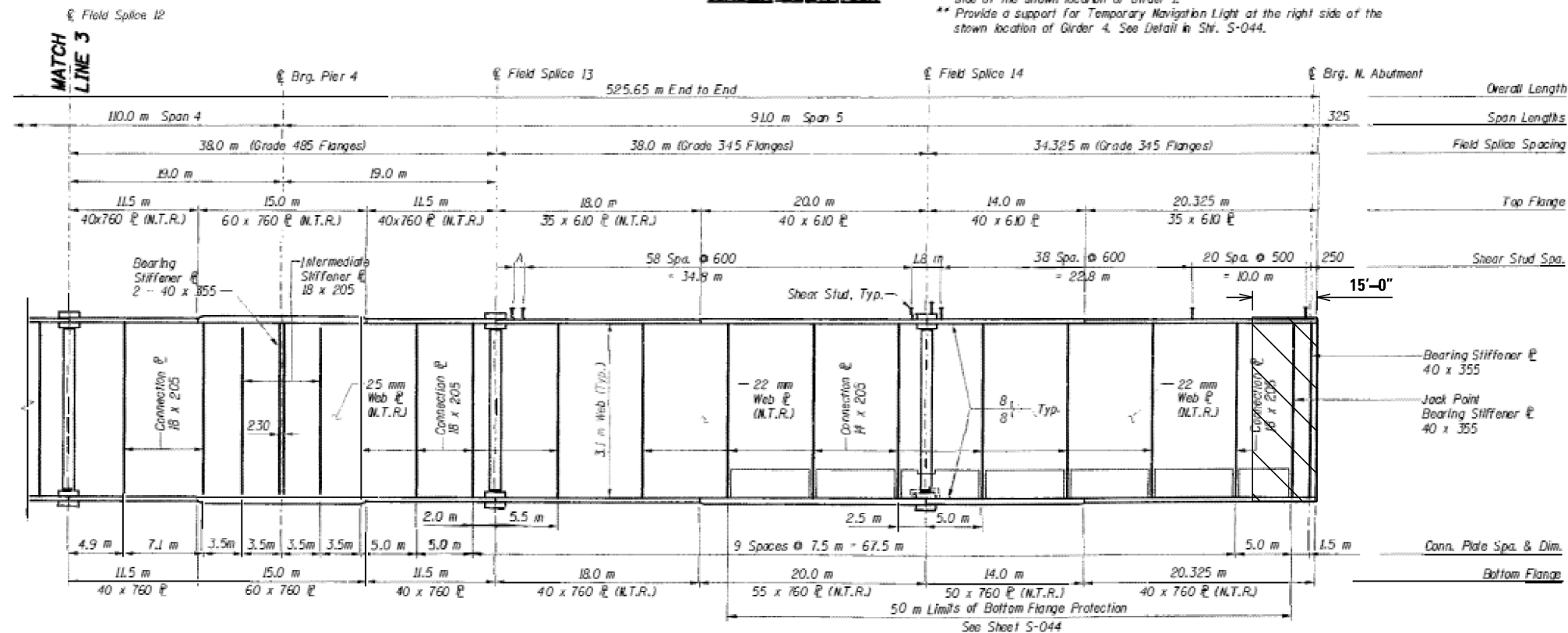
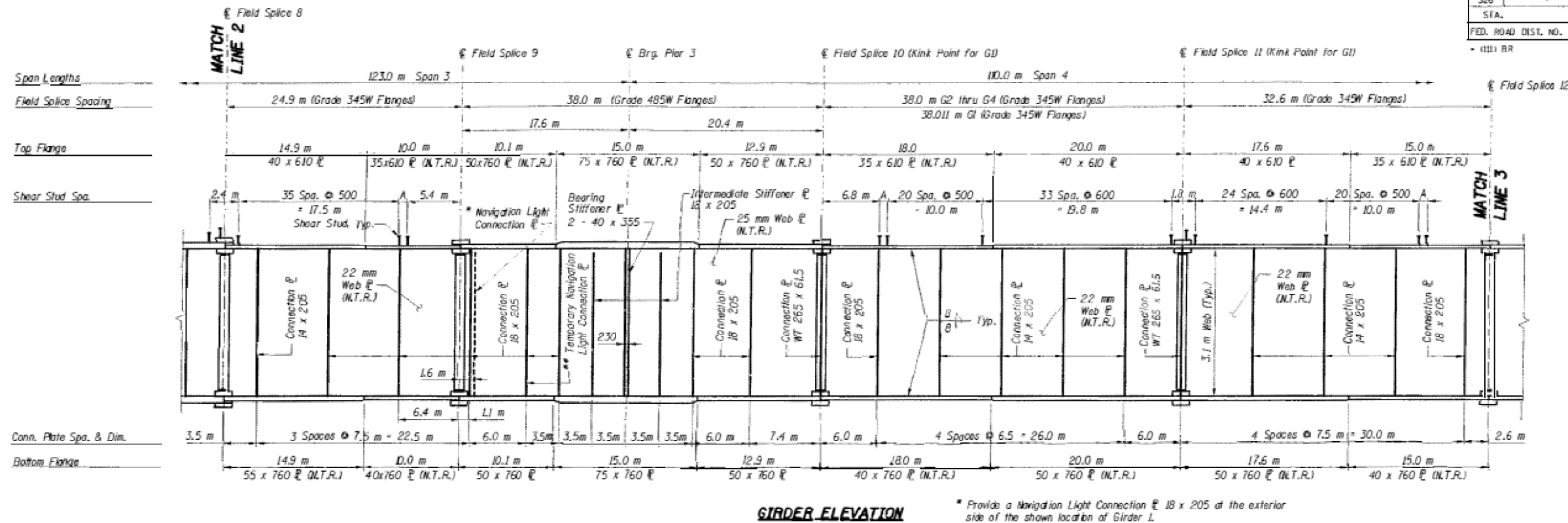
**GIRDER ELEVATION DETAILS FOR
 STRUCTURE NO. 032-0099**

SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FAP 326 (IL 47) & FAS 268A (CH 15)		GRUNDY, LASALLE	55	16
ILLINOIS		CONTRACT NO. 66K89		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	GRUNDY	145	120
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

• (111) BR



BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	7668

- Notes:**
- 1. All dimensions are in millimeters (mm) except as noted.
 - 2. All steel shown on this sheet shall be AASHTO M 270M Grade 345W except Girder Flanges which shall be Grade 485W in the negative moment regions as indicated.
 - 3. N.T.R. denotes steel subject to Supplemental Requirements for Match Toughness (Zone 2).
 - 4. For Structural Steel details, see Sheet S-044.
 - 5. For Camber Diagram and Top of Web Elevations, see Sheet S-047.
 - 6. For Field Splices details, see Sheet S-046.
 - 7. "A" denotes "B Spacing @ 100 = 600".

SHT. S-043

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 47 OVER IBM CANAL AND ILLINOIS RIVER
F.A. RTE 326 SEC (111)BR-1 (111) BR-1
STRUCTURE NUMBER 032-0099
STATION 27+013.200, GRUNDY COUNTY
PUBLIC WATERS

GIRDER ELEVATIONS II
SOUTH BOUND

DATE: 11/10/00



TENGE & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

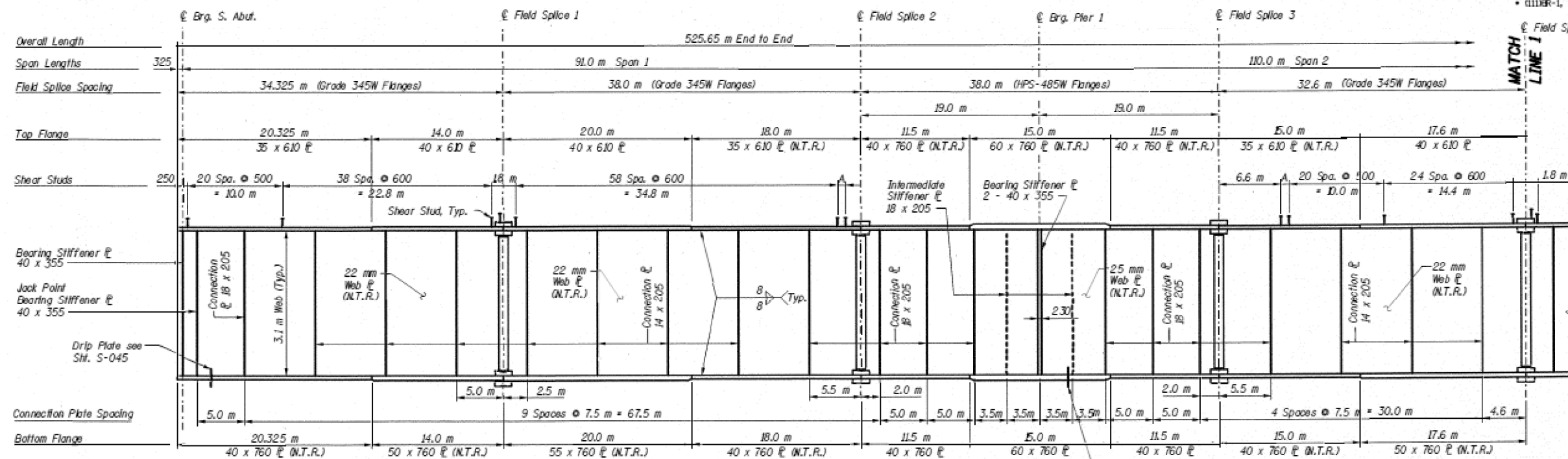
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION DETAILS FOR
STRUCTURE NO. 032-0099

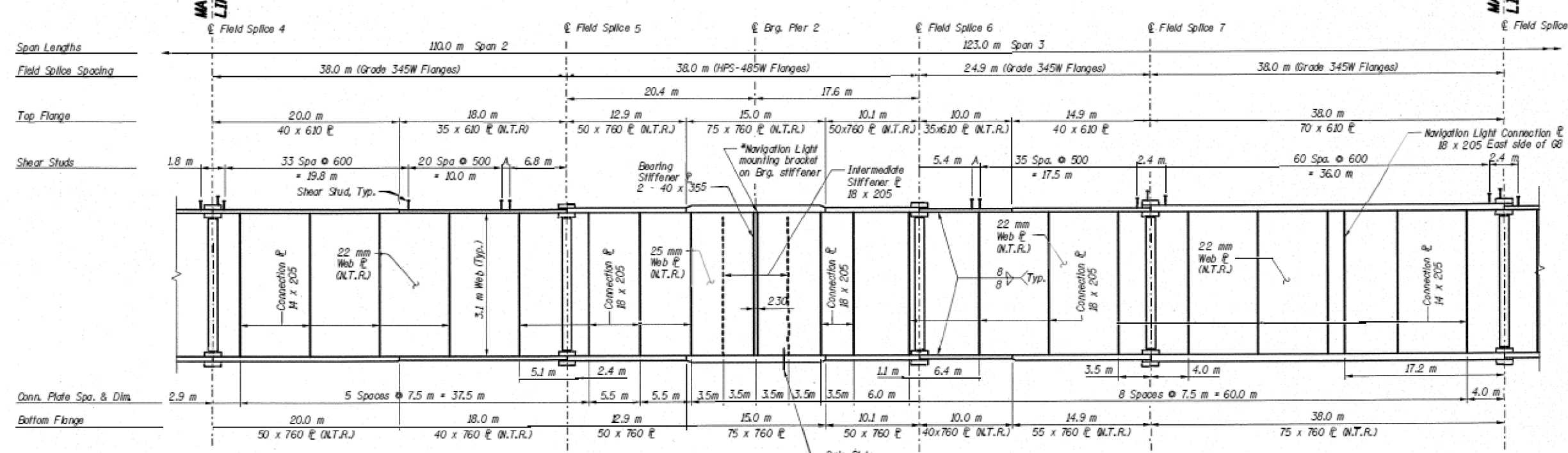
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	GRUNDY	145	120
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

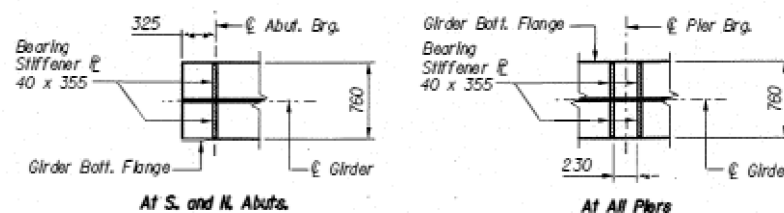
RTE.	SECTION	COUNTY	SHEETS	NO.
326		GRUNDY	137	111
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



GIRDER ELEVATION



GIRDER ELEVATION



PLAN - BEARING STIFFENER DETAIL

- Notes**
- All dimensions are in millimeters (mm) except as noted.
 - All steel shown on this sheet shall be AASHTO M 270M Grade 345W except Girder Flanges which shall be HPS-485W in the negative moment regions as indicated.
 - N.T.R. denotes steel subject to Supplemental Requirements for Notch Toughness (Zone 2).
 - For Structural Steel details, see Sheet S-045.
 - For Camber Diagram and Top of Web Elevations, see Sheet S-048.
 - For Field Splices details, see Sheet S-047.
 - "A" denotes 5 Spaces @ 100 = 600°.

SHT. S-043

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111)BR WARS-11 Q1D BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+03.200, GRUNDY COUNTY
 PUBLIC WORKS

**GIRDER ELEVATIONS I
 NORTH BOUND**

DATE: 07/15/02

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

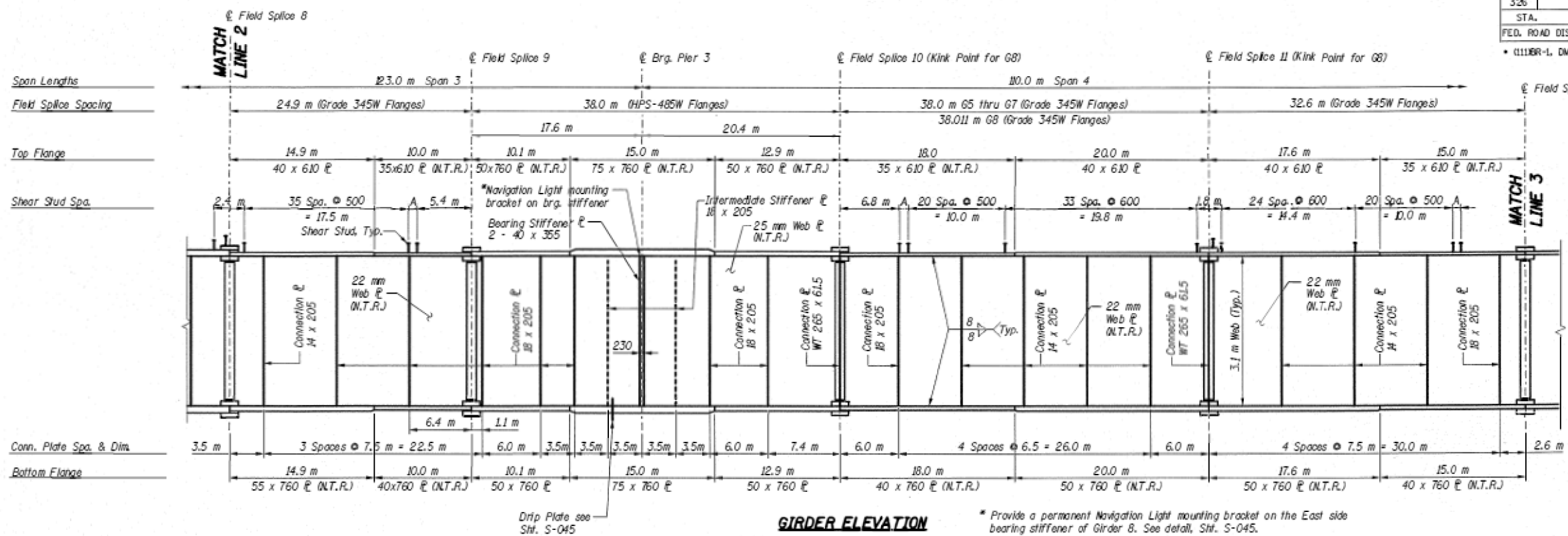
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GIRDER ELEVATION DETAILS FOR
 STRUCTURE NO. 032-0099**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

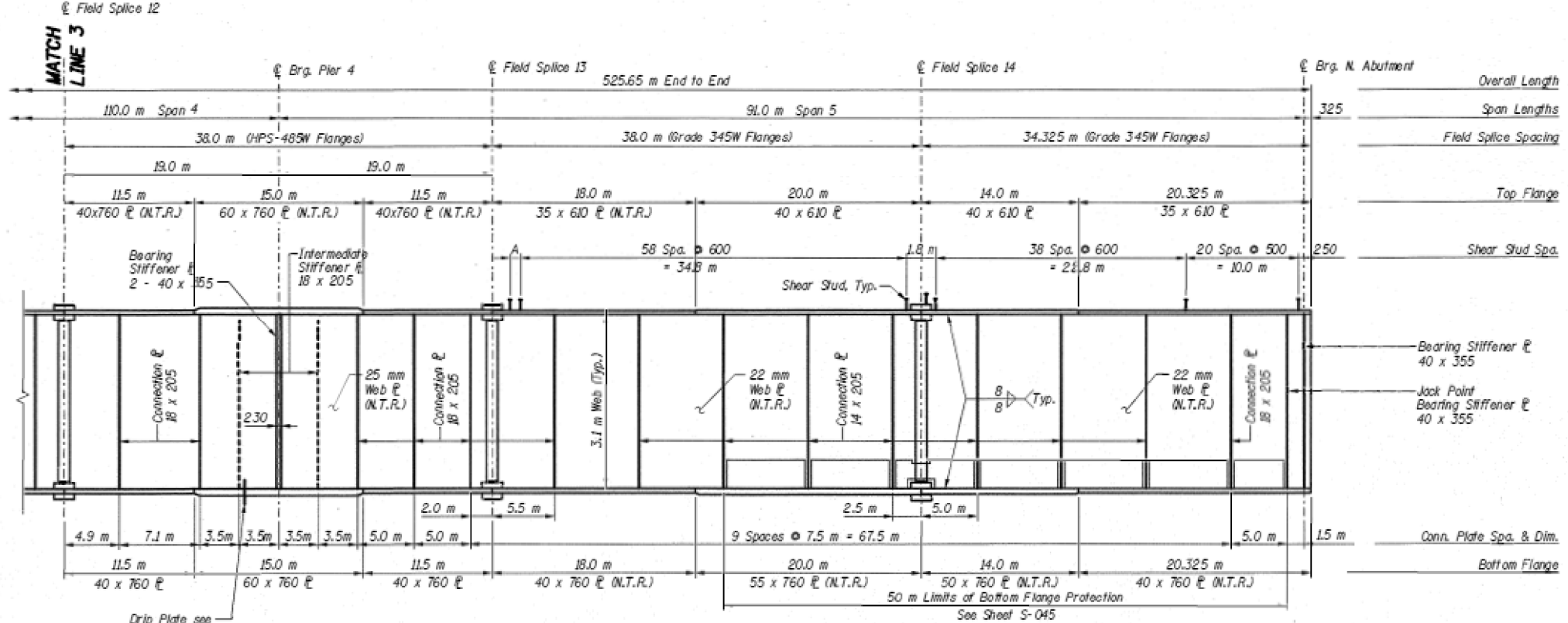
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(111)BR, BR-1	(111)BR	GRUNDY, LASALLE	55	18
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	137	112
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GIRDER ELEVATION

* Provide a permanent Navigation Light mounting bracket on the East side bearing stiffener of Girder 8. See detail, Sht. S-045.



GIRDER ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	7668

- Notes**
- All dimensions are in millimeters (mm) except as noted.
 - All steel shown on this sheet shall be AASHTO M 270M Grade 345W except Girder Flanges which shall be HPS-485W in the negative moment regions as indicated.
 - N.T.R. denotes steel subject to Supplemental Requirements for Notch Toughness (Zone 2).
 - For Structural Steel details, see Sheet S-045.
 - For Camber Diagram and Top of Web Elevations, see Sheet S-048.
 - For Field Splices details, see Sheet S-047.
 - "A" denotes "6 Spaces @ 100 = 600".

SHT. S-044

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111,118) W&S-1, (11D BR, BR-1)
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

**GIRDER ELEVATIONS II
 NORTH BOUND**

DATE: 07/15/02

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

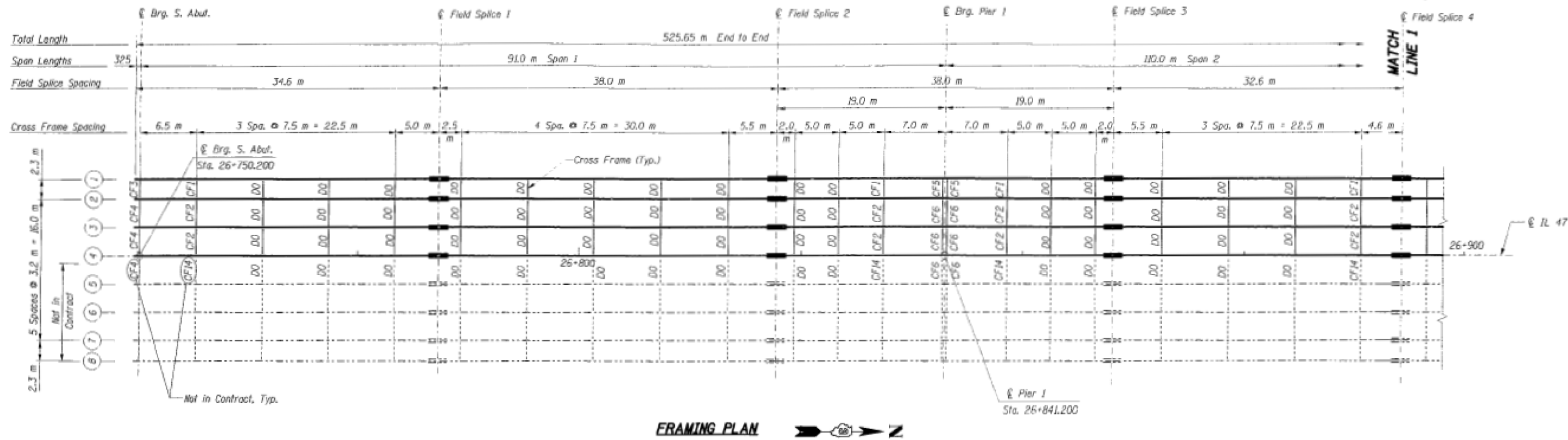
**GIRDER ELEVATION DETAILS FOR
 STRUCTURE NO. 032-0099**

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

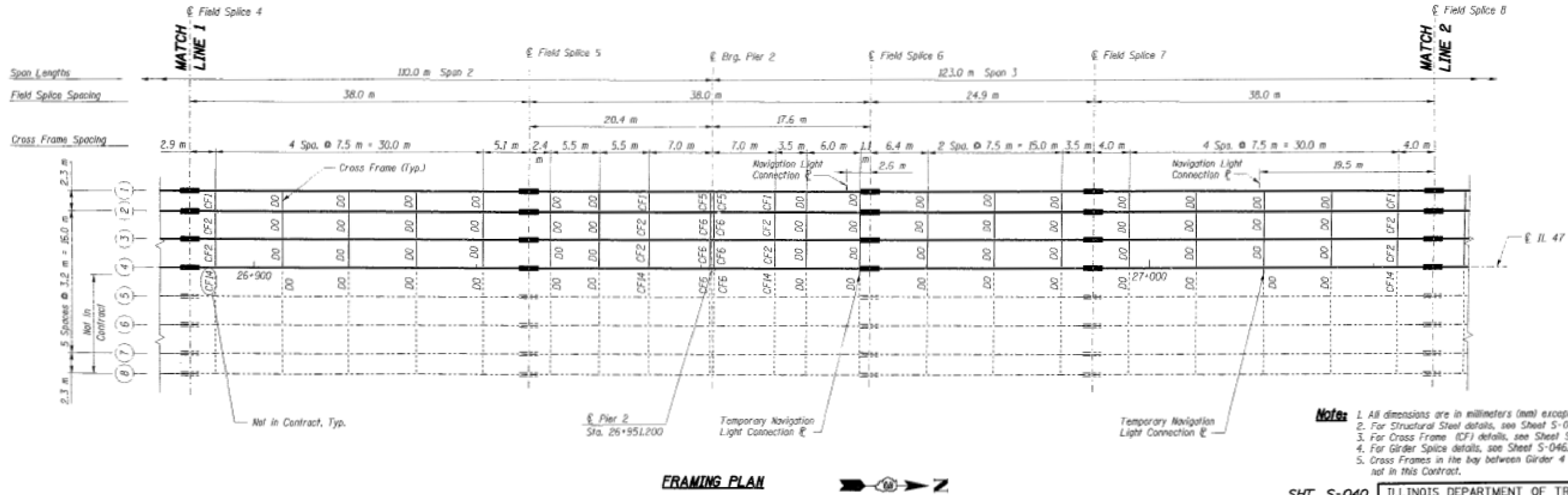
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	55	19
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	145	117
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FRAMING PLAN



FRAMING PLAN

- Note:**
1. All dimensions are in millimeters (mm) except as noted.
 2. For Structural Steel details, see Sheet S-044.
 3. For Cross Frame (CF) details, see Sheet S-045.
 4. For Girder Splice details, see Sheet S-046.
 5. Cross Frames in the bay between Girder 4 and 5 not in this Contract.

FOR INFORMATION ONLY

SHT. S-040

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAM CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (11,118) WARS-1j (11) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

STEEL FRAMING PLAN I
SOUTH BOUND

DATE: 11/10/00
 DRAWN BY: HM
 CHECKED BY: JLR

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstadaj	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

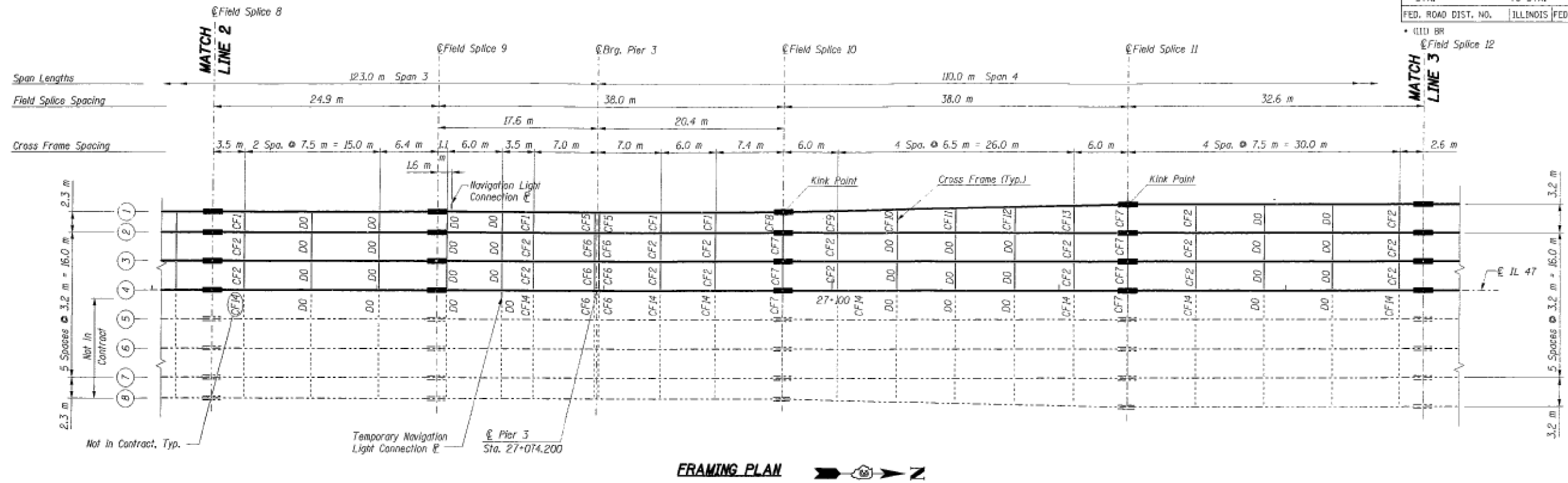
FRAMING PLAN DETAILS FOR
STRUCTURE NO. 032-0099

SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

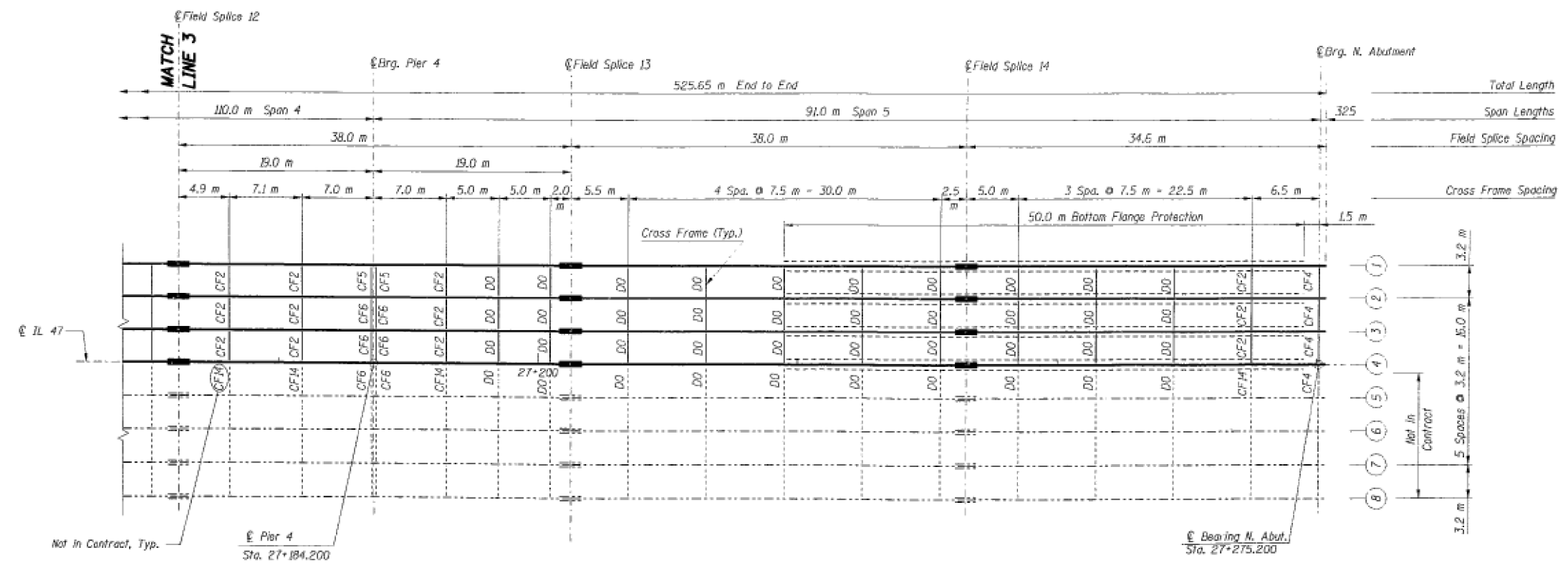
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(11)BR, BR-1](1B-1)BP	LASALLE, GRUNDY	55	20
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	145	118
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FRAMING PLAN



FRAMING PLAN

FOR INFORMATION ONLY

- Note:**
1. All dimensions are in millimeters (mm) except as noted.
 2. For Structural Steel details, see Sheet S-044.
 3. For Cross Frame (CF) details, see Sheet S-045.
 4. For Girder Splice details, see Sheet S-046.
 5. Cross Frames in the bay between Girder 4 and 5 not in this Contract.
 6. For Bottom Flange Cover & details see Sht. S-044.

SHT. S-041

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (11,118) WARS-1, (11) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

STEEL FRAMING PLAN II
 SOUTH BOUND DRAWN BY: HW
 DATE: 01/31/01 CHECKED BY: JLR

TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

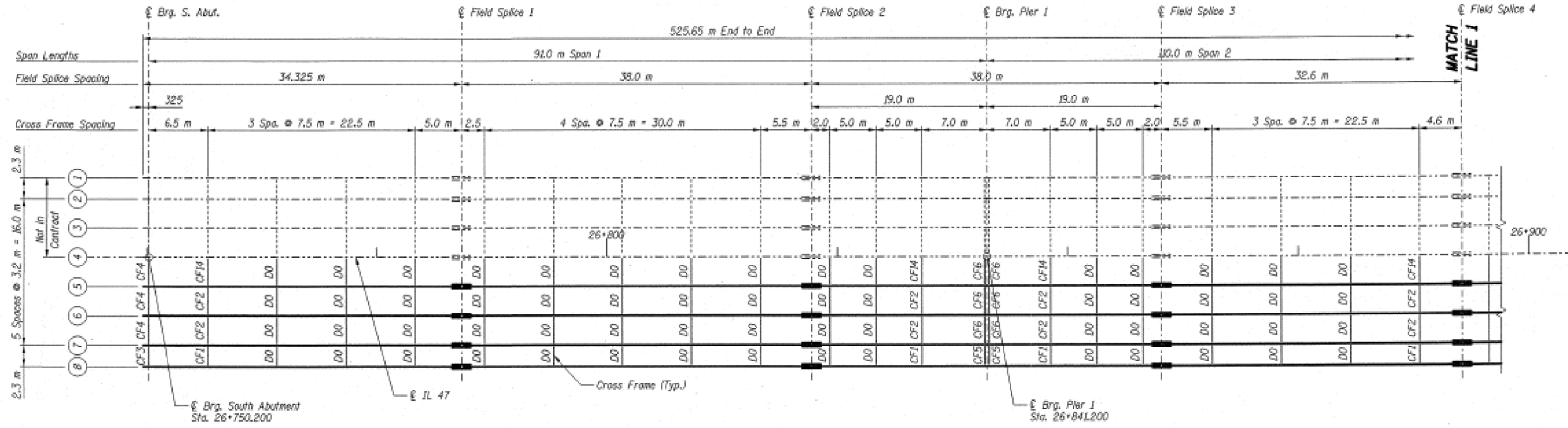
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FRAMING PLAN DETAILS FOR STRUCTURE NO. 032-0099			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

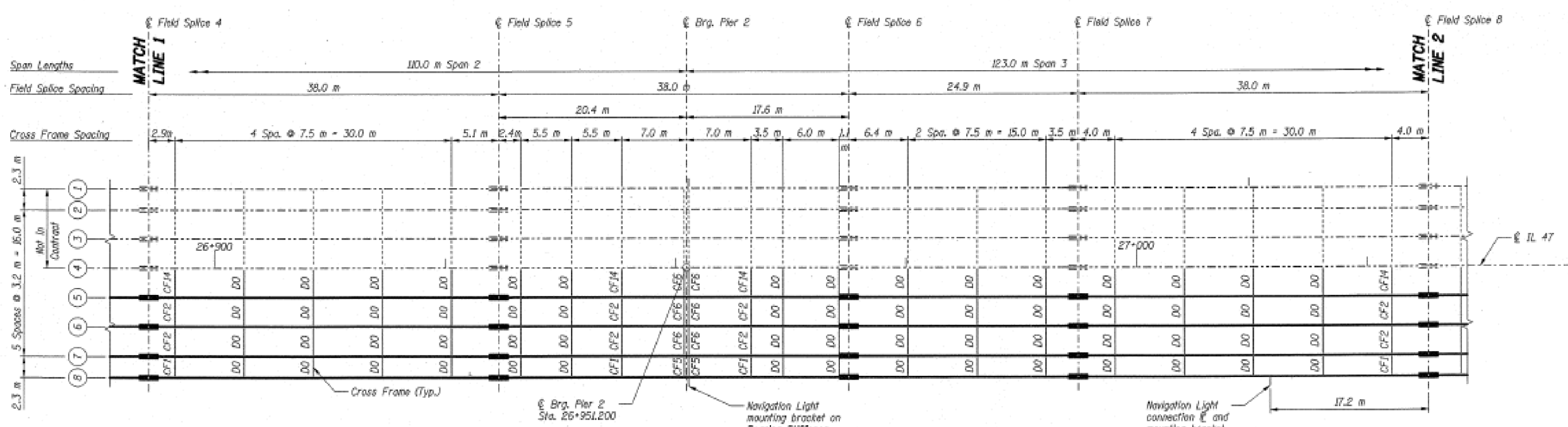
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(11)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	21
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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RTE.	SECTION	COUNTY	SHEETS NO.
326		GRUNDY	137 139
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



FRAMING PLAN



FRAMING PLAN

FOR INFORMATION ONLY

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
 - For Structural Steel details, see Sheet S-045.
 - For Cross Frame (CF) details, see Sheet S-046.
 - For Girder Splice details, see Sheet S-047.
 - For Navigation Light mounting bracket details see SM. S-045.

SHT. S-041

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111,118) WARS-14 (11) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

STEEL FRAMING PLAN I
 NORTH BOUND

DATE: 07/15/02
 DRAWN BY: HM
 CHECKED BY: JLR

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN DETAILS FOR
 STRUCTURE NO. 032-0099

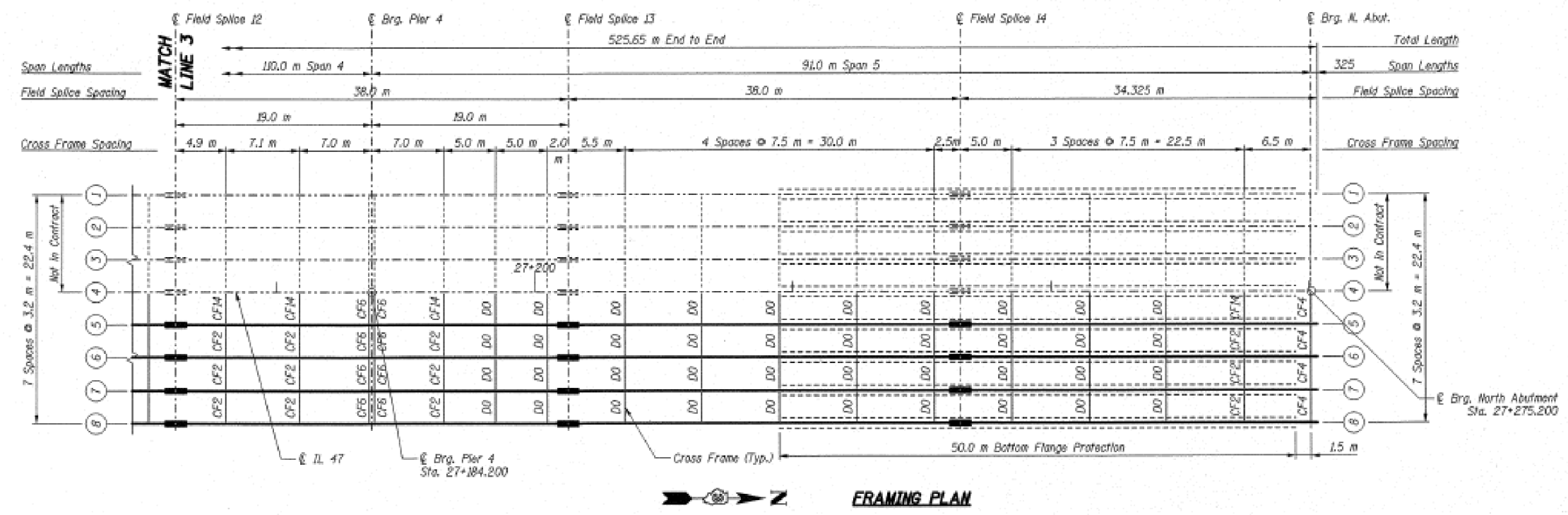
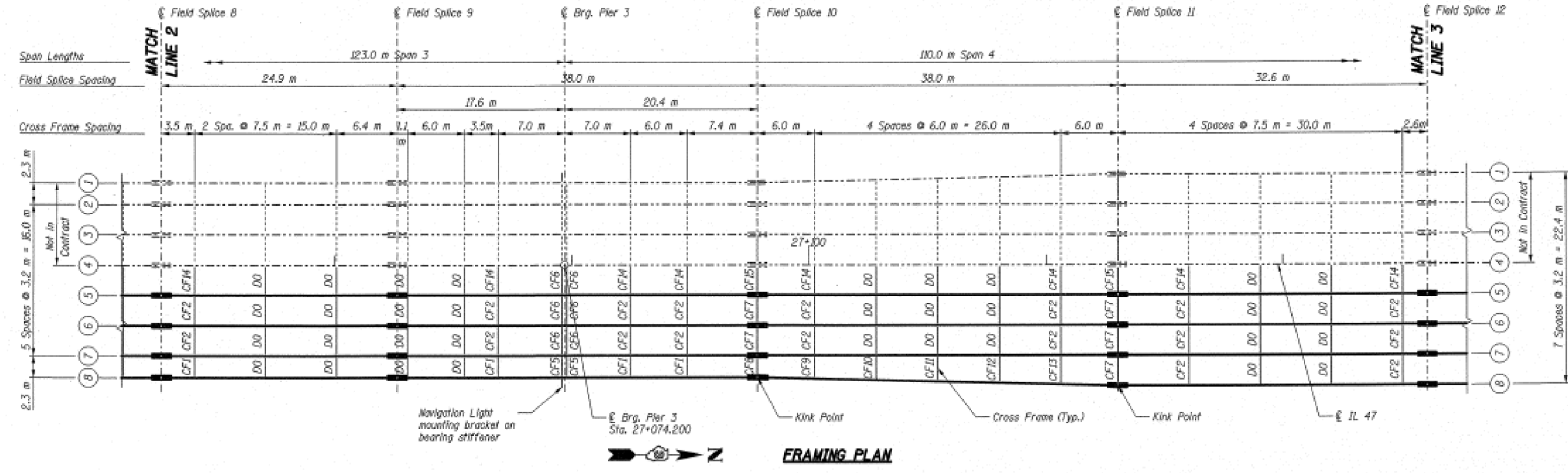
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	22
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	137	110
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (111BR-1), DN



FOR INFORMATION ONLY

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
 - For Structural Steel details, see Sheet S-045.
 - For Cross Frame (CF) details, see Sheet S-046.
 - For Girder Splice details, see Sheet S-047.
 - For Bottom Flange Protection details and Navigation Light mounting bracket see Sheet S-045.

SHT. S-042

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAM CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111,118) WARS-1, (111) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

STEEL FRAMING PLAN II
 NORTH BOUND

DATE: 07/15/02
 DRAWN BY: HM
 CHECKED BY: JLR

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

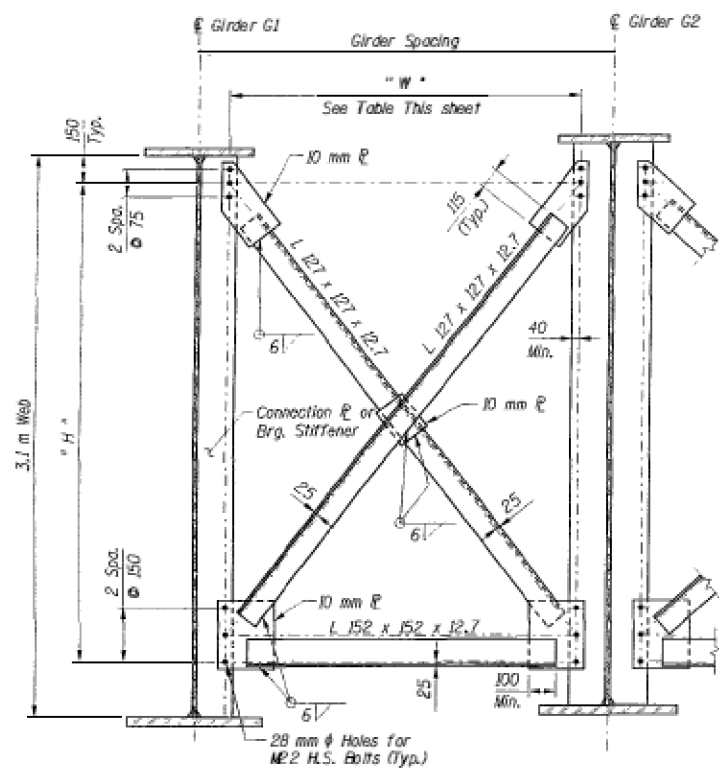
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN DETAILS FOR
 STRUCTURE NO. 032-0099

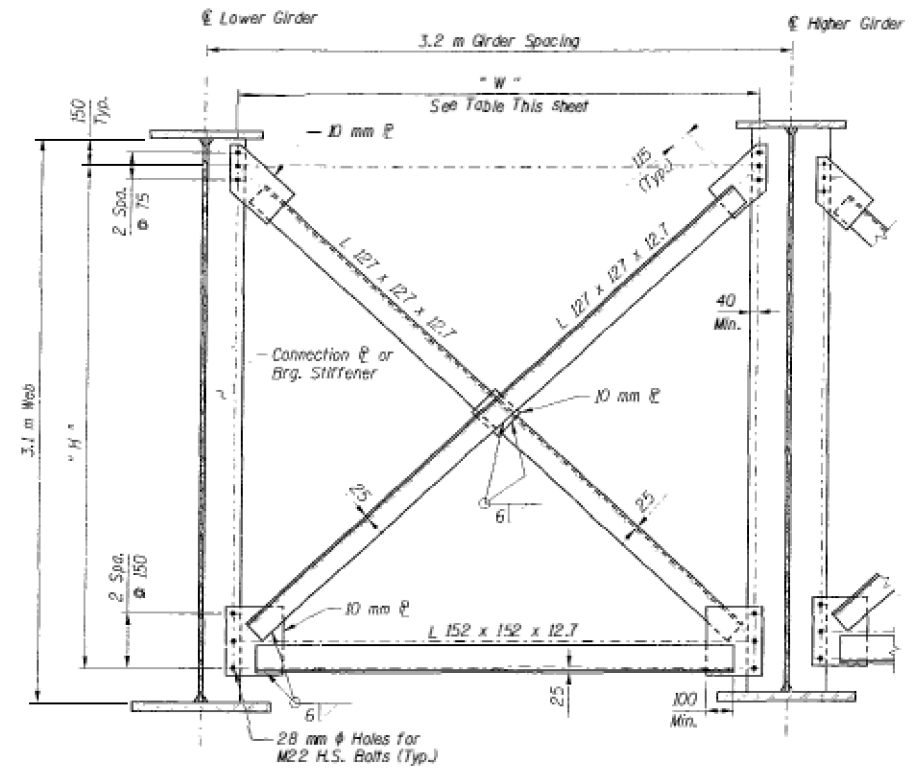
SCALE: _____ SHEET 4 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	[(111)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	23
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

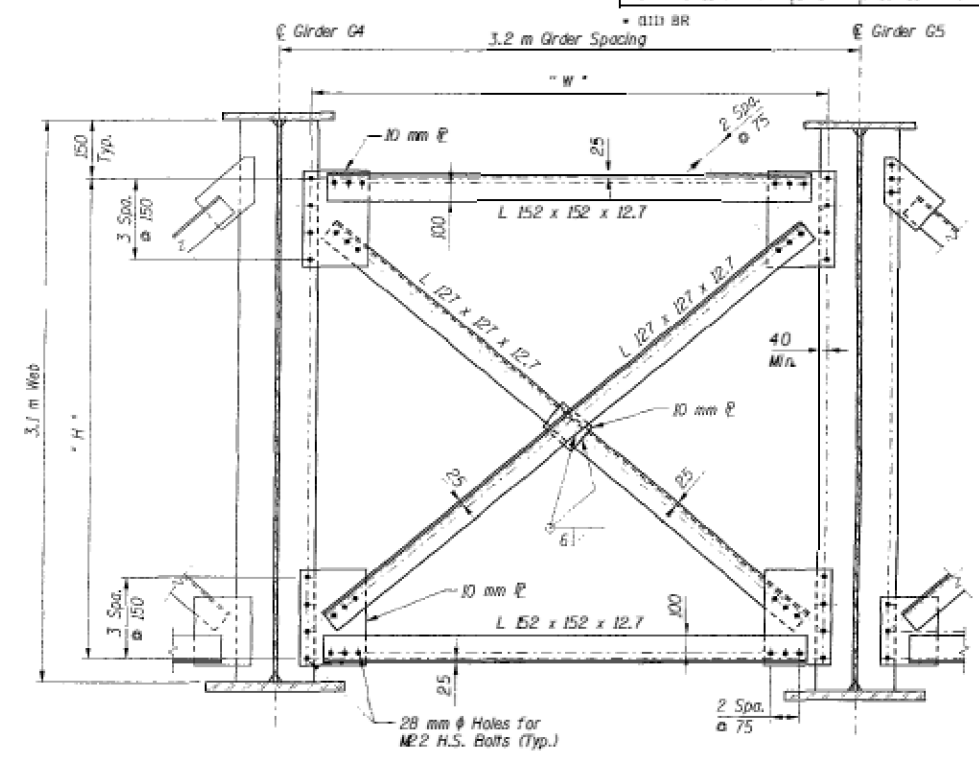
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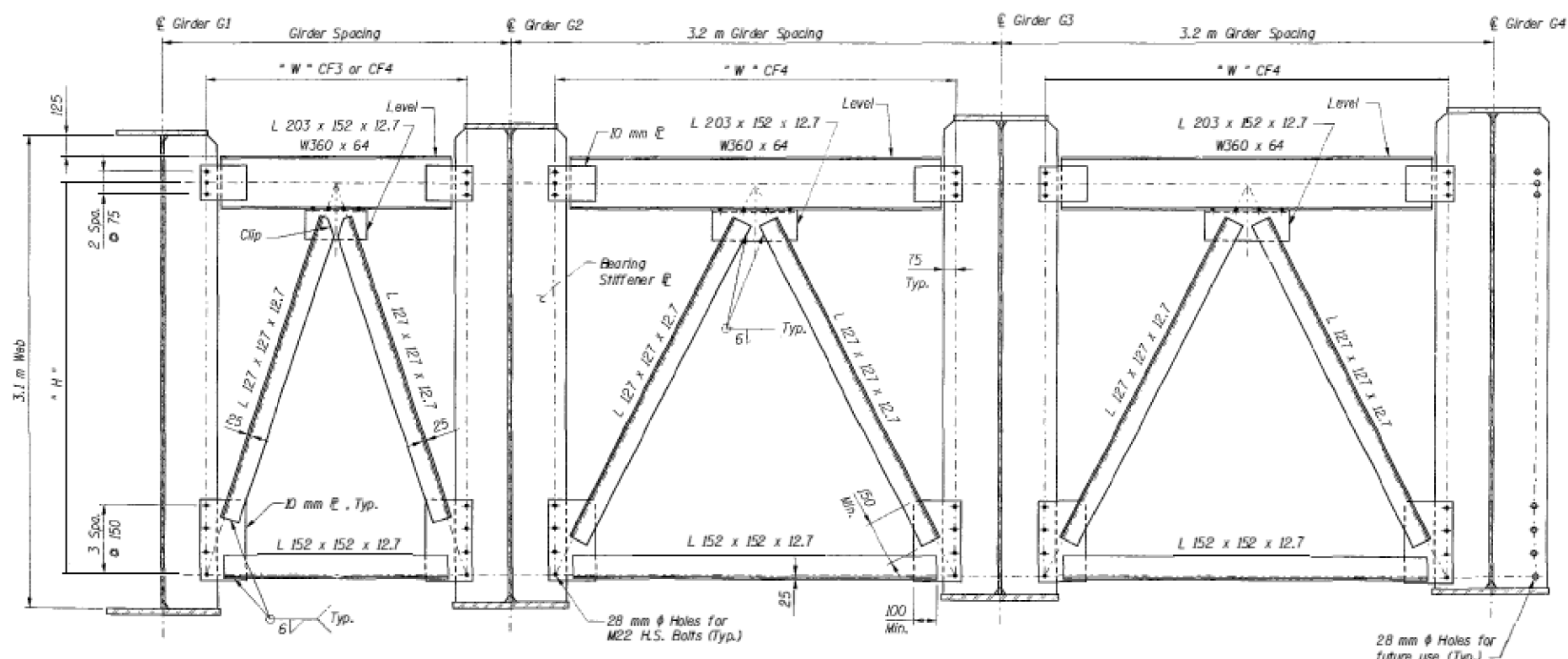
INTERIOR CROSS FRAME
CF1, CF5, CF9 THRU CF13



INTERIOR CROSS FRAME
CF2 & CF6



CF14
(For future use)



FOR INFORMATION ONLY

END CROSS FRAME
CF3 & CF4

Cross Frame Designation	* H * (m)	* W * (m)	Number
CF1	2.75	1.95	46
CF2	2.75	2.85	159
CF3	2.56	1.72	1
CF4	2.56	2.62	5
CF5	2.75	1.65	6
CF6	2.75	2.55	18
CF7	2.49	2.69	5
CF8	2.49	1.79	1
CF9	2.75	2.10	1
CF10	2.75	2.25	1
CF11	2.75	2.40	1
CF12	2.75	2.56	1
CF13	2.75	2.71	1
CF14	2.75	2.85	N.L.C.

- Notes:**
- Fasteners shall be High Strength Bolts (AASHTO M 164M, Type 3). Bolts M22, open holes 28 mm dia.
 - Two hardened washers shall be required for all 28 mm ϕ holes.
 - Work this sheet with Sheets S-040 & S-041.
 - For details of crossframes CFT & CFB see Sht. S-046.
 - All dimensions are in millimeters (mm) except as noted.
 - All steel shall be AASHTO M 270M Grade 345W.

SHT. S-045

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAN CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111.118) WARS-1 (111) BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

CROSS FRAME DETAILS
SOUTH BOUND

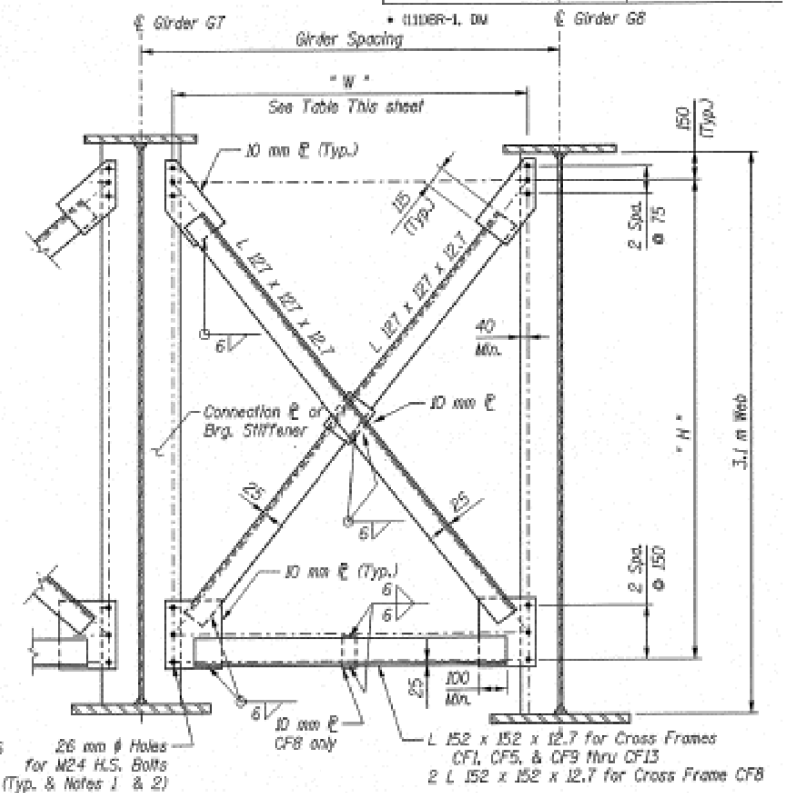
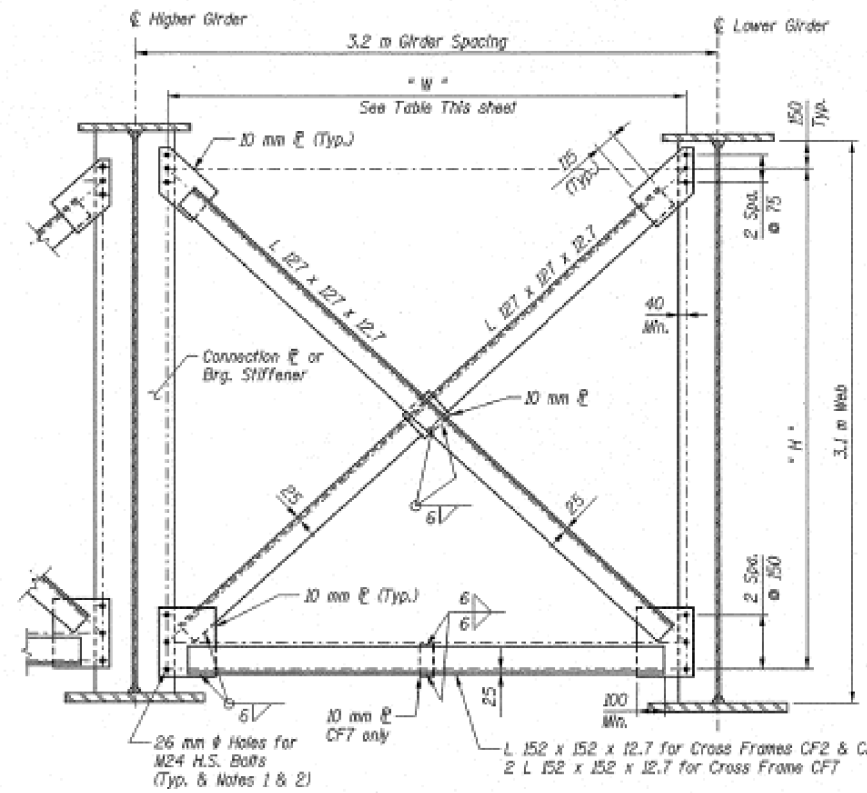
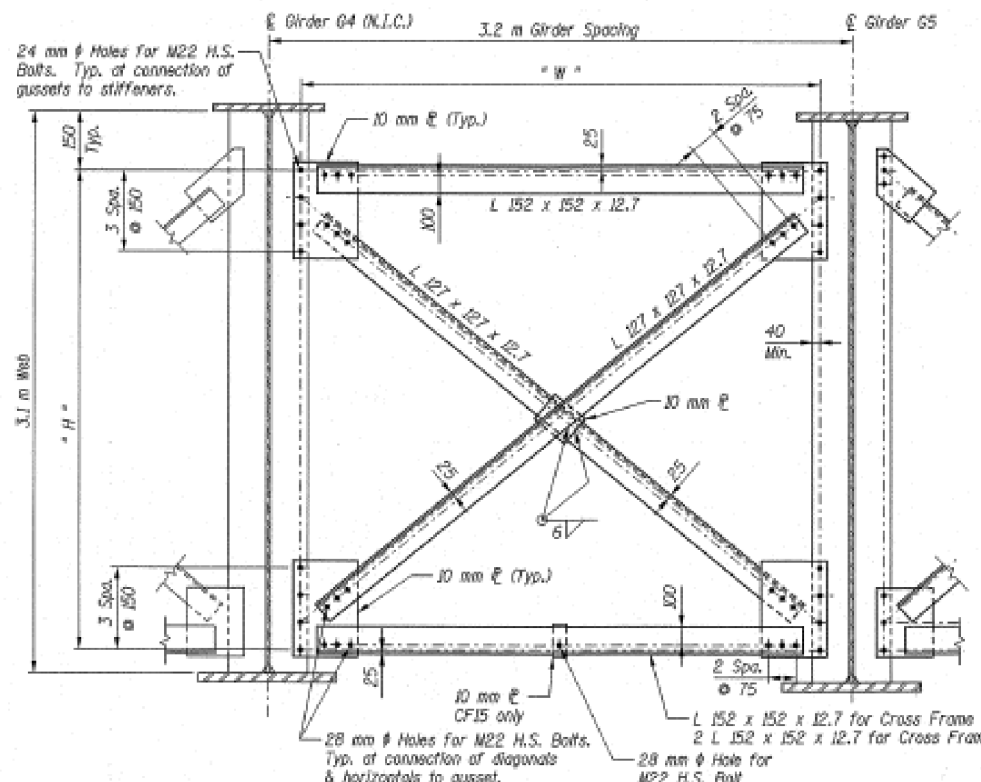
DATE: 11/10/00

TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS FRAME DETAILS FOR
 STRUCTURE NO. 032-0099



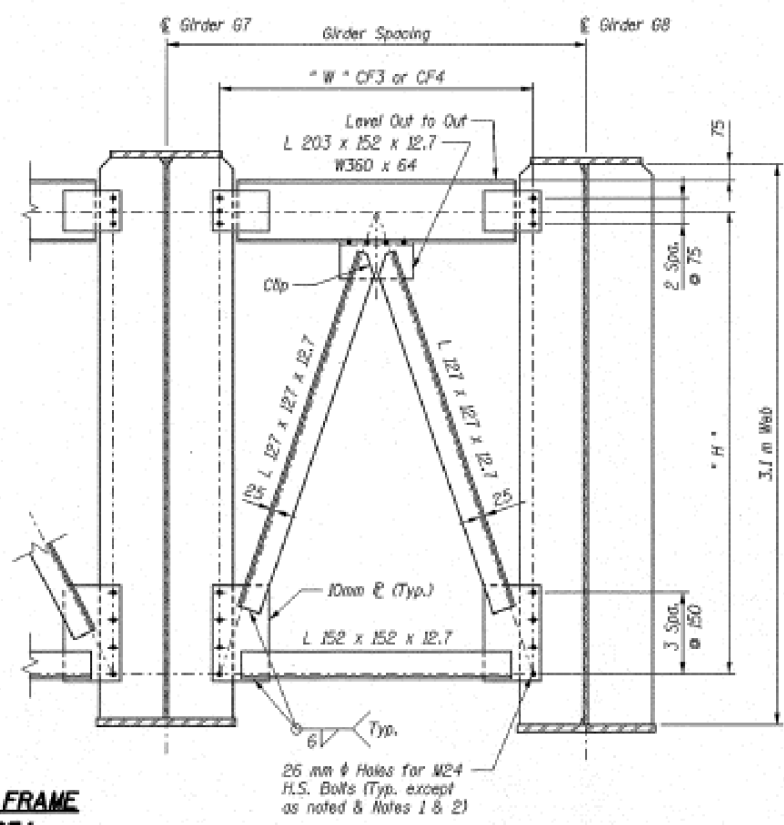
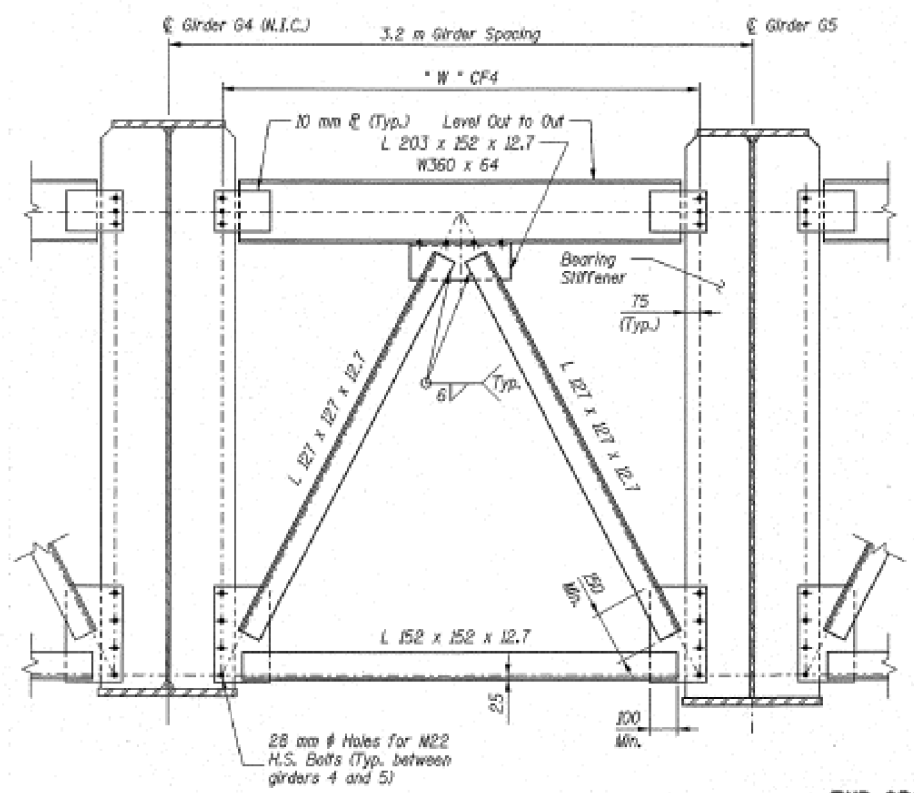
- Erection Sequence for CF4 & CF15:**
1. Bolt gusset plates to Girders 4 & 5. Tighten bolts fully.
 2. Bolt top and bottom horizontal members with single bolt. Tinger tight, in hole closest to girder web.
 3. After Deck Pour #9, add remaining bolts and cross members.
 4. Fully tighten all bolts.
 5. Pour closure strip to deck.

CF4 & CF15

**INTERIOR CROSS FRAME
CF2, CF6 & CF7**

**INTERIOR CROSS FRAME
CF1, CF5, CF8 THRU CF13**

Cross Frame Designation	* H * (m)	* W * (m)	Number
CF1	2.75	1.95	46
CF2	2.75	2.85	156
CF3	2.56	1.72	1
CF4	2.56	2.62	7
CF5	2.75	1.65	6
CF6	2.75	2.55	26
CF7	2.49	2.69	5
CF8	2.49	1.79	1
CF9	2.75	2.10	1
CF10	2.75	2.25	1
CF11	2.75	2.40	1
CF12	2.75	2.56	1
CF13	2.75	2.71	1
CF14	2.75	2.85	69
CF15	2.49	2.69	2



**END CROSS FRAME
CF3 & CF4**

- Notes:**
1. All crossframe bolts shall be AASHTO M253M, Type 3 of the diameters detailed.
 2. Open hole diameters shall be as detailed. Except for connection of diagonals and horizontals to gussets in CF14 and CF15, bolts shall be installed in "standard" holes with threads excluded from the shear plane. Field reaming of holes shall only be permitted between girders 6 and 7.
 3. Two hardened washers shall be required for all 28 mm ϕ holes.
 4. Work this sheet with Sheets S-041 & S-042.
 5. For details of crossframes CF7, CF8 & CF15 see Sht. S-047.
 6. All dimensions are in millimeters (mm) except as noted. All steel shall be AASHTO M 270M Grade 345W.

SHT. S-046

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (I11118) W&S-1 (I11) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

CROSS FRAME DETAILS

NORTH BOUND
 DRAWN BY: HW
 CHECKED BY: JLR

DATE: 07/15/02



FOR INFORMATION ONLY

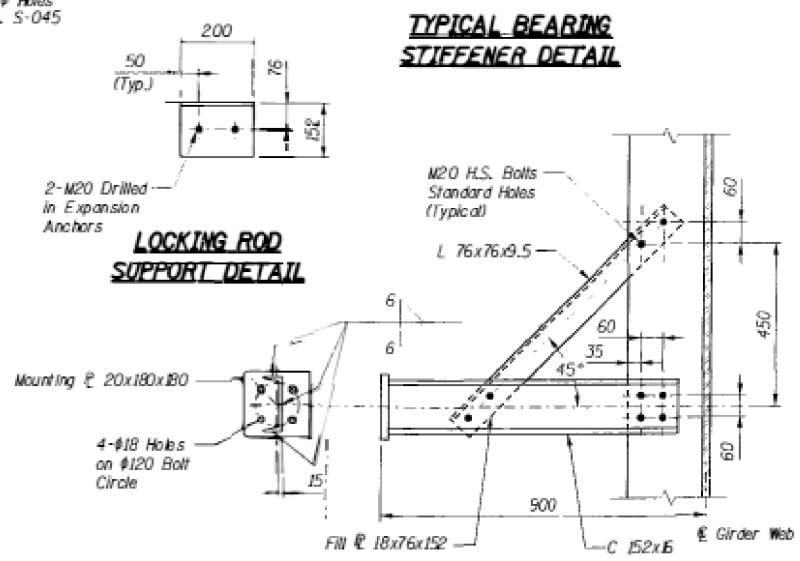
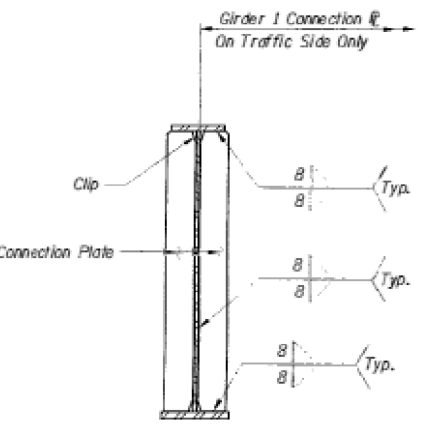
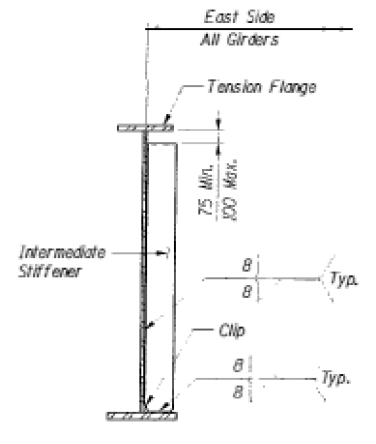
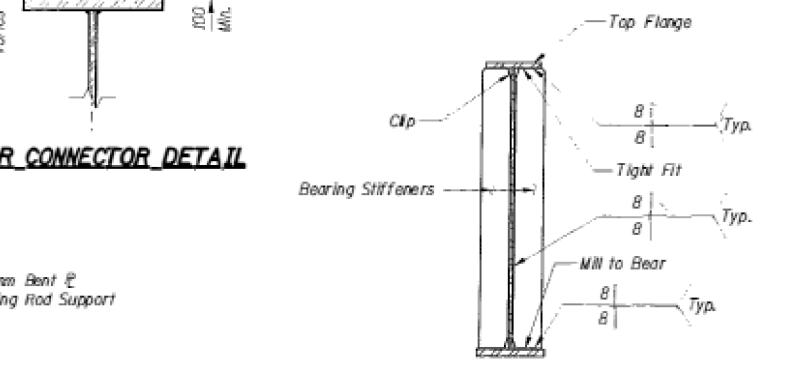
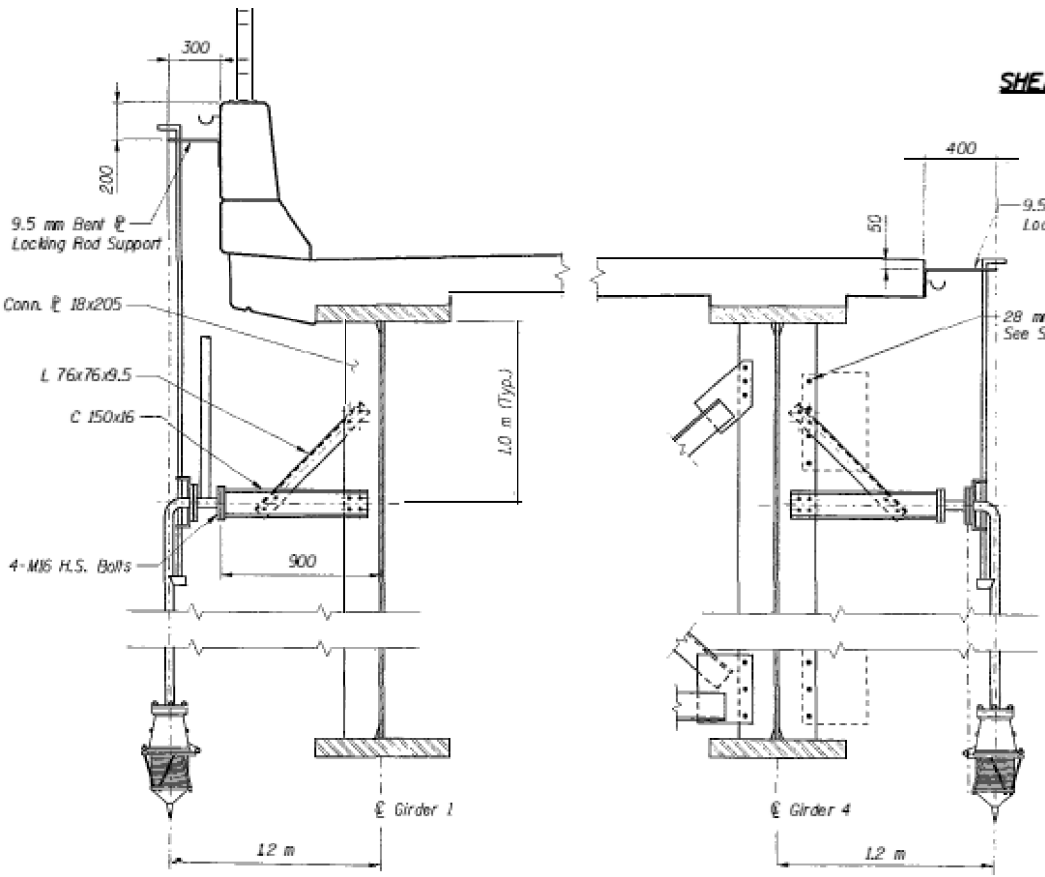
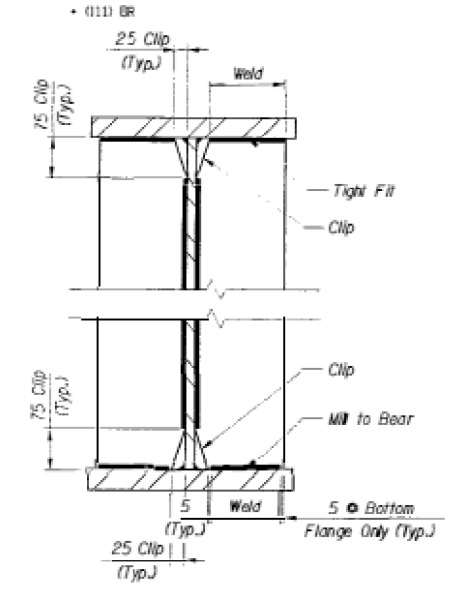
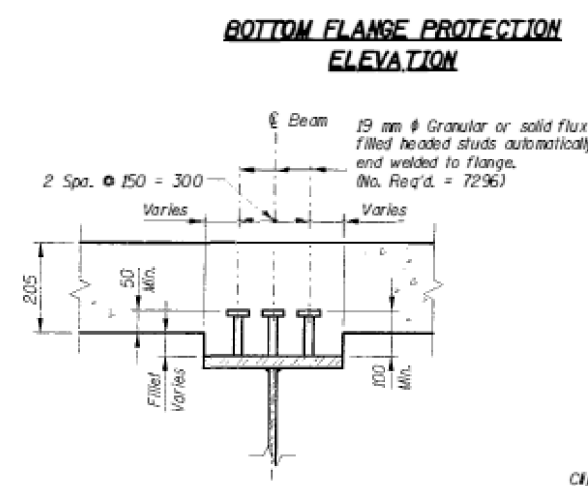
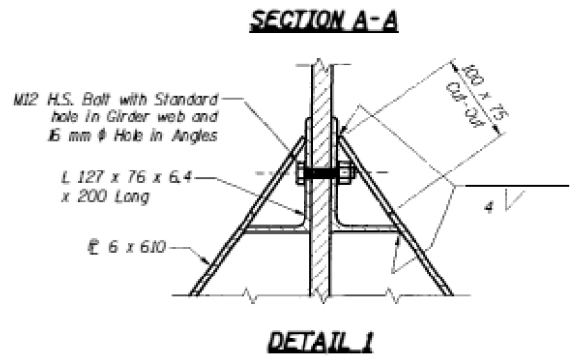
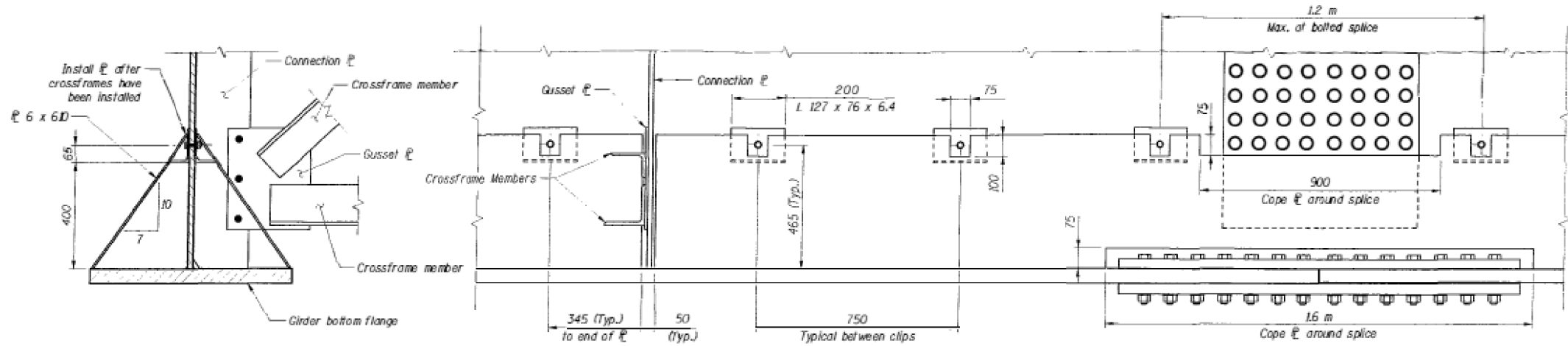
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	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS FRAME DETAILS FOR
 STRUCTURE NO. 032-0099

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	145	121
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				



- Notes:**
- All dimensions are in millimeters (mm) except as noted.
 - All plates and shapes shown on this sheet shall be AASHTO M 270M Grade 345W.
 - For Navigation Light details, see Electrical Plans.

SHT. S-044

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAM CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC 326 (111) BR WARS-1 (111) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+03.200, GRUNDY COUNTY
 PUBLIC WATERS

STRUCTURAL STEEL DETAILS
 SOUTH BOUND

DATE: 11/10/00

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS FOR
 STRUCTURE NO. 032-0099

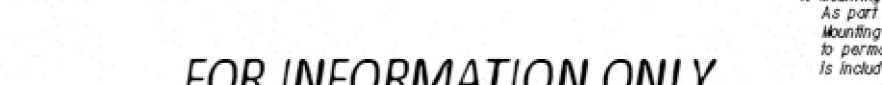
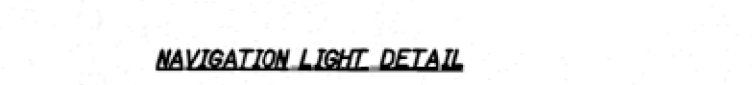
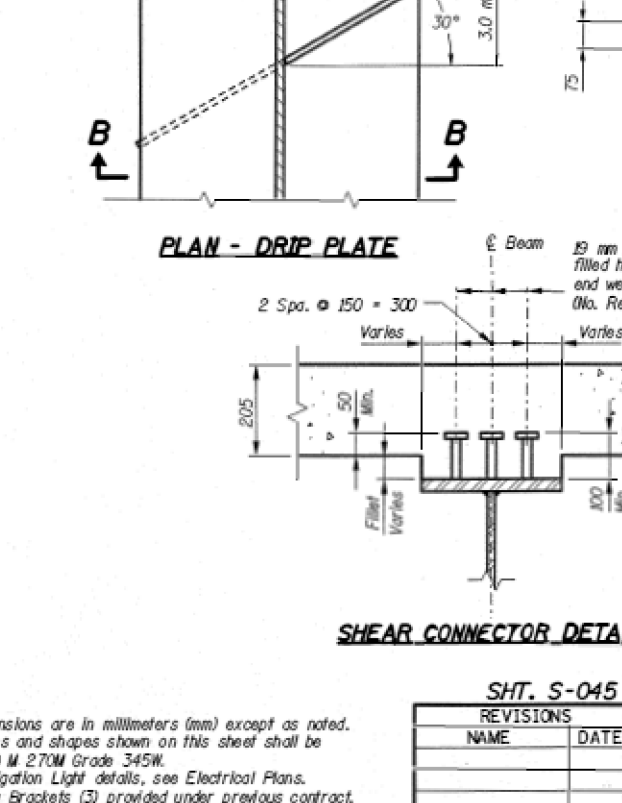
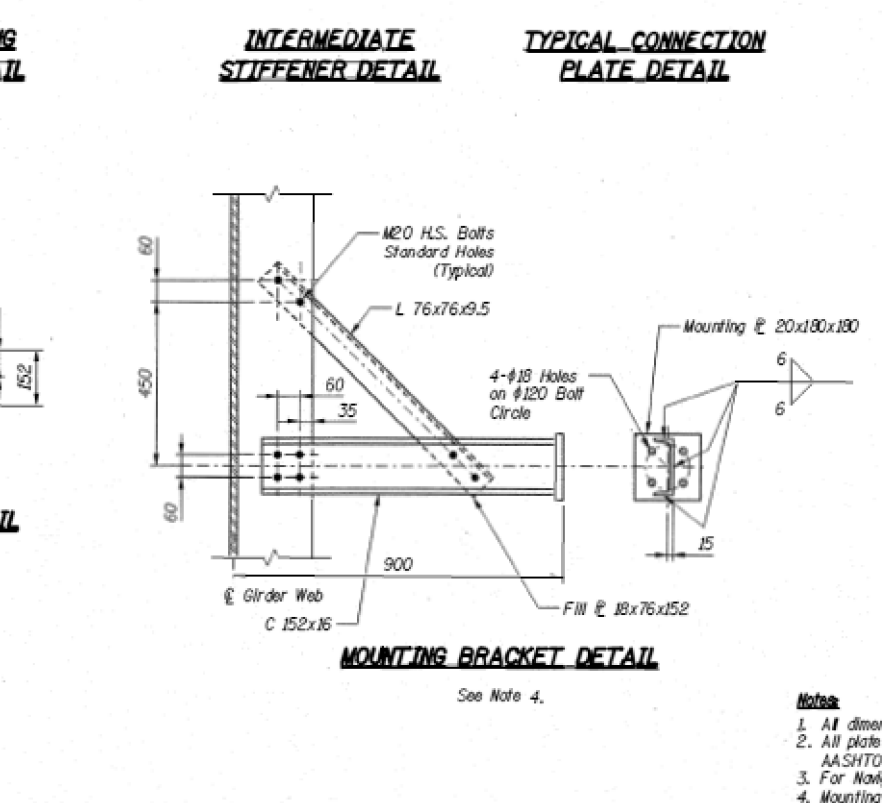
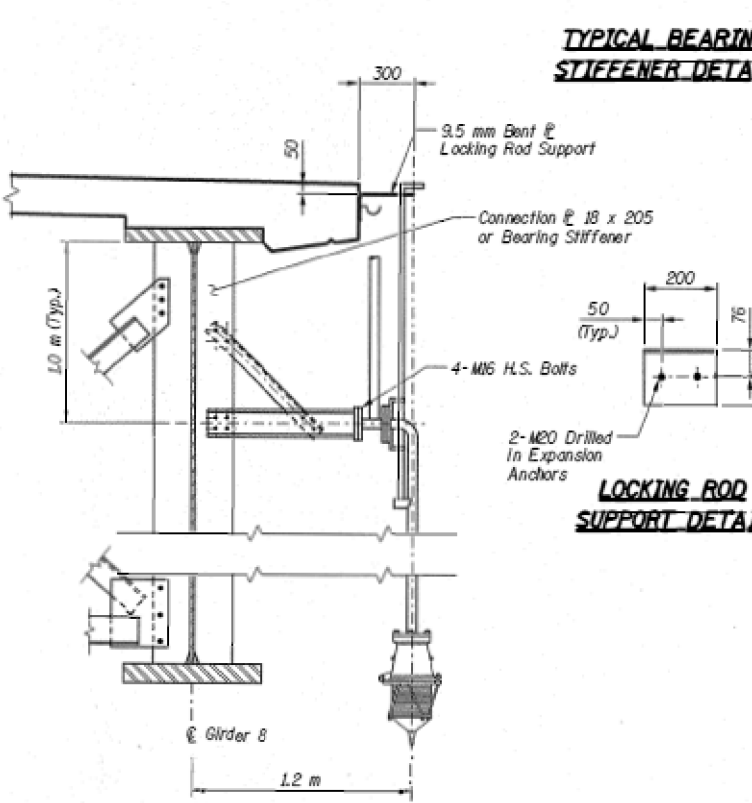
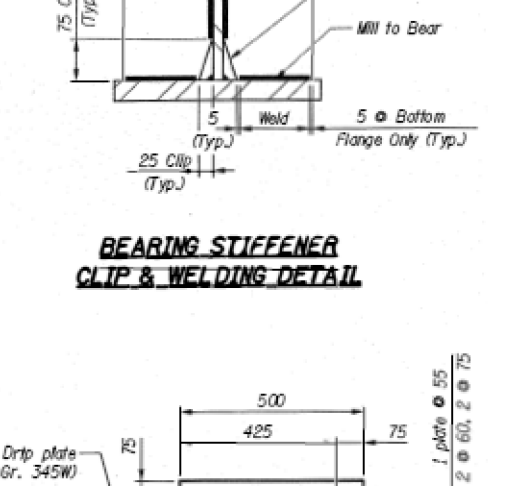
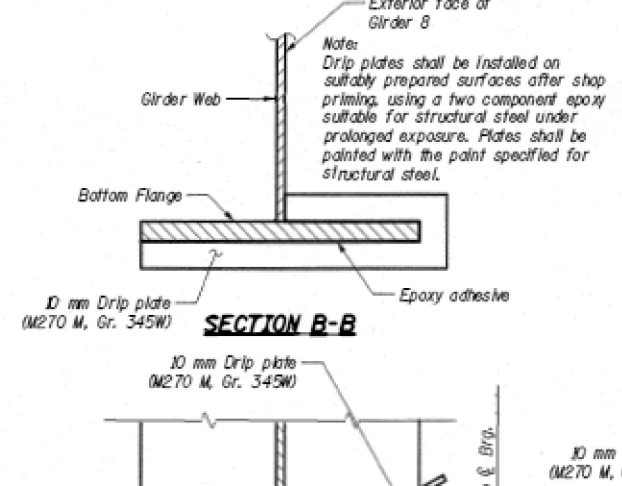
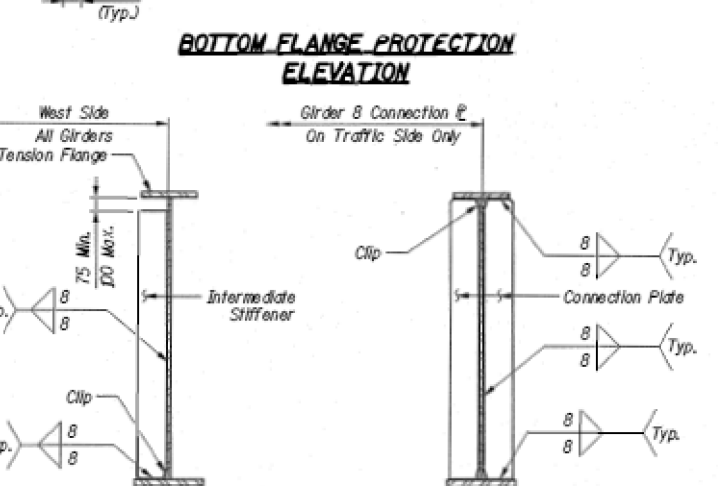
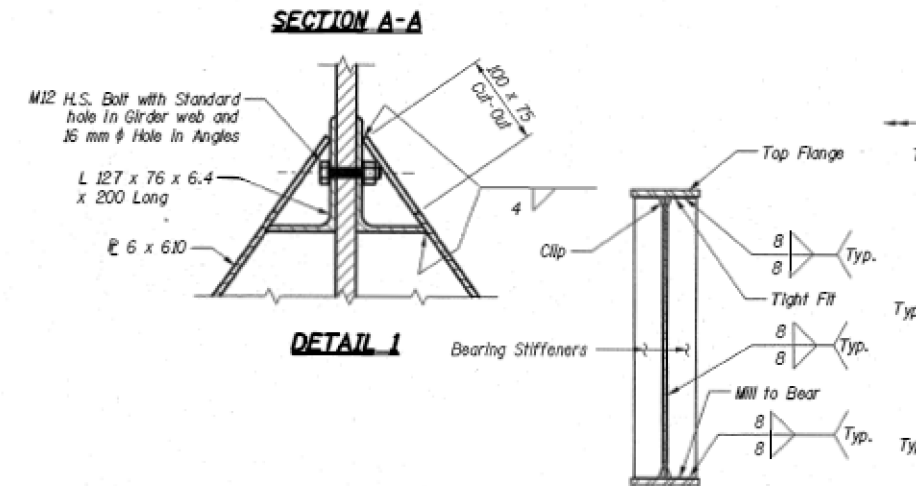
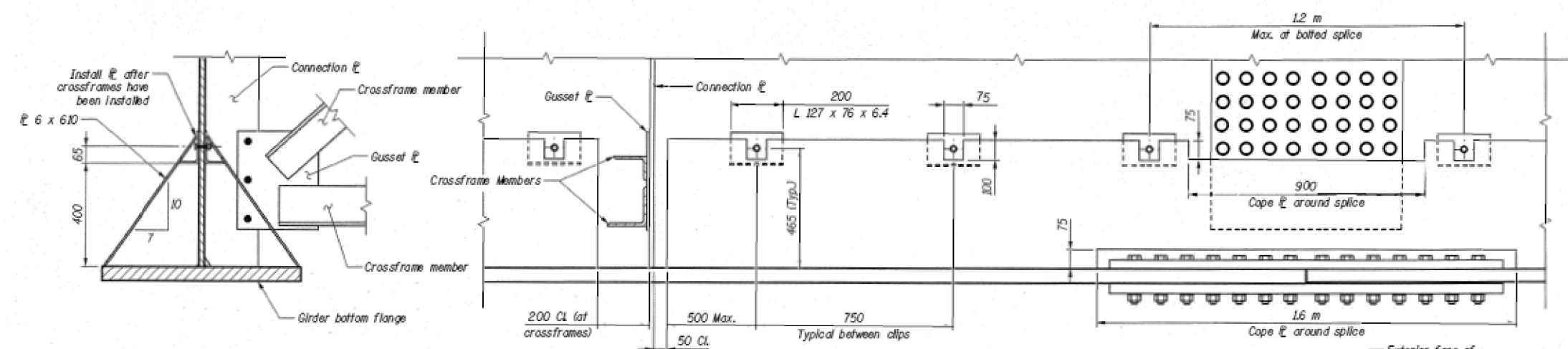
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[[111]BR, BR-1] (1B-1)]BP	GRUNDY, LASALLE	55	26
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	137	113

STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

• (111BR-1, DM)



Notes:

- All dimensions are in millimeters (mm) except as noted.
- All plates and shapes shown on this sheet shall be AASHTO M 270M Grade 345W.
- For Navigation Light details, see Electrical Plans.
- Mounting Brackets (3) provided under previous contract. As part of this contract, Contractor shall move the Mounting Brackets from temporary locations on Girder 4 to permanent locations on Girder 8. The cost of this work is included with Furnishing and Erecting Structural Steel.

SHT. S-045

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 47 OVER 194 CANAL AND ILLINOIS RIVER
F.A. RTE 326 SEC (111,118) WARS-1 (111) BR BR-1
STRUCTURE NUMBER 032-0098
STATION 27+013.200, GRUNDY COUNTY
PUBLIC WATERS

STRUCTURAL STEEL DETAILS
NORTH BOUND

DATE: 07/15/02

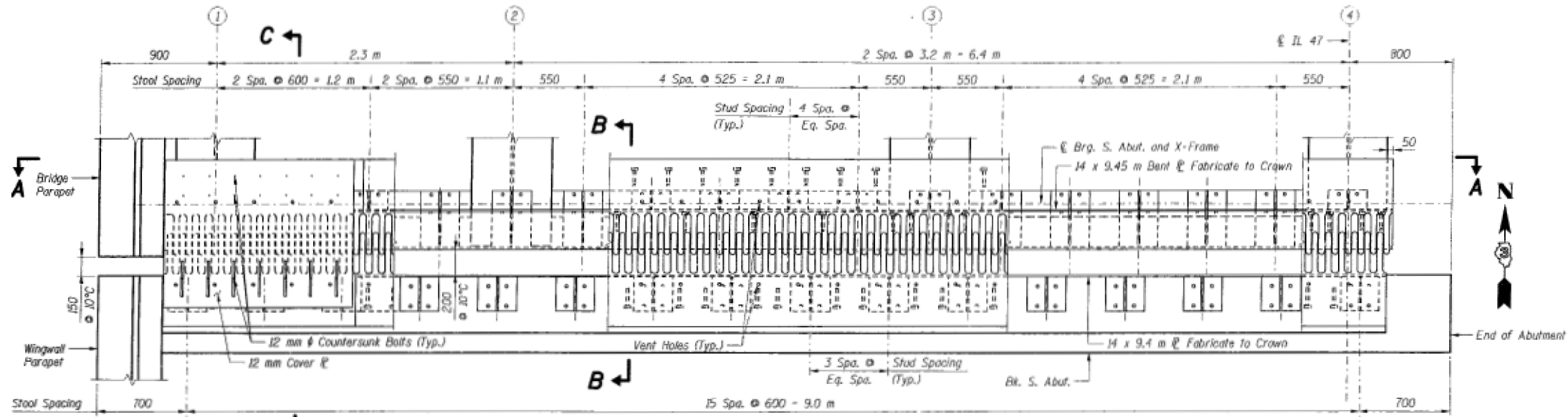
TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS

FOR INFORMATION ONLY

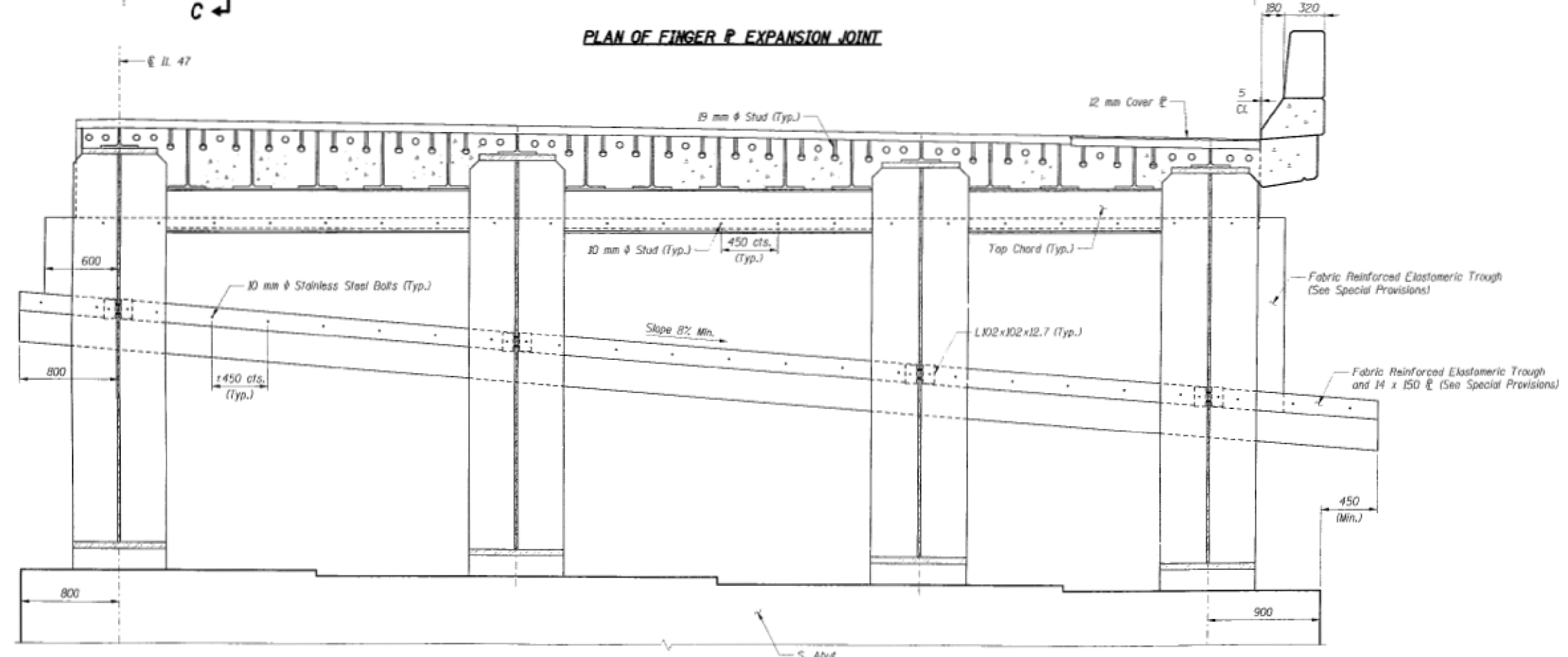
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RTS.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	145	111
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (111) BR



PLAN OF FINGER & EXPANSION JOINT



SECTION A-A
(Cross Frames Not Shown For Clarity)

FOR INFORMATION ONLY

- Notes**
1. Work this sheet with Sheet S-036.
 2. All dimensions are in millimeters (mm) except as noted.

SHT. S-034

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAM CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC 011.118 WARS-1 (111) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

EXPANSION JOINT SOUTH ABUTMENT SOUTH BOUND

DATE: 11/10/00
 DRAWN BY: TMH
 CHECKED BY: J.R.

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED - _____
	DRAWN - TG	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED - _____
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

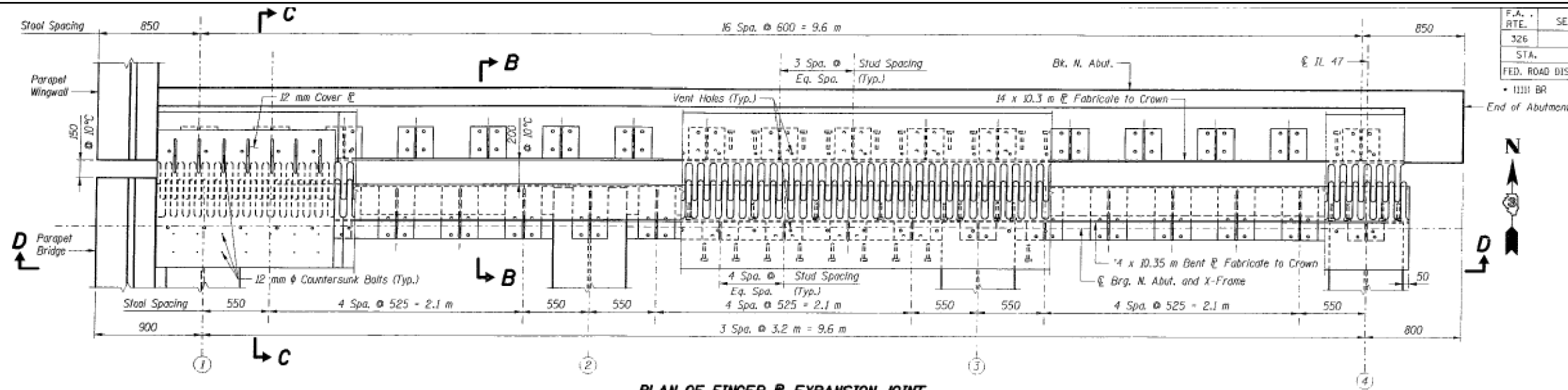
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STRUCTURE NO. 032-0099**

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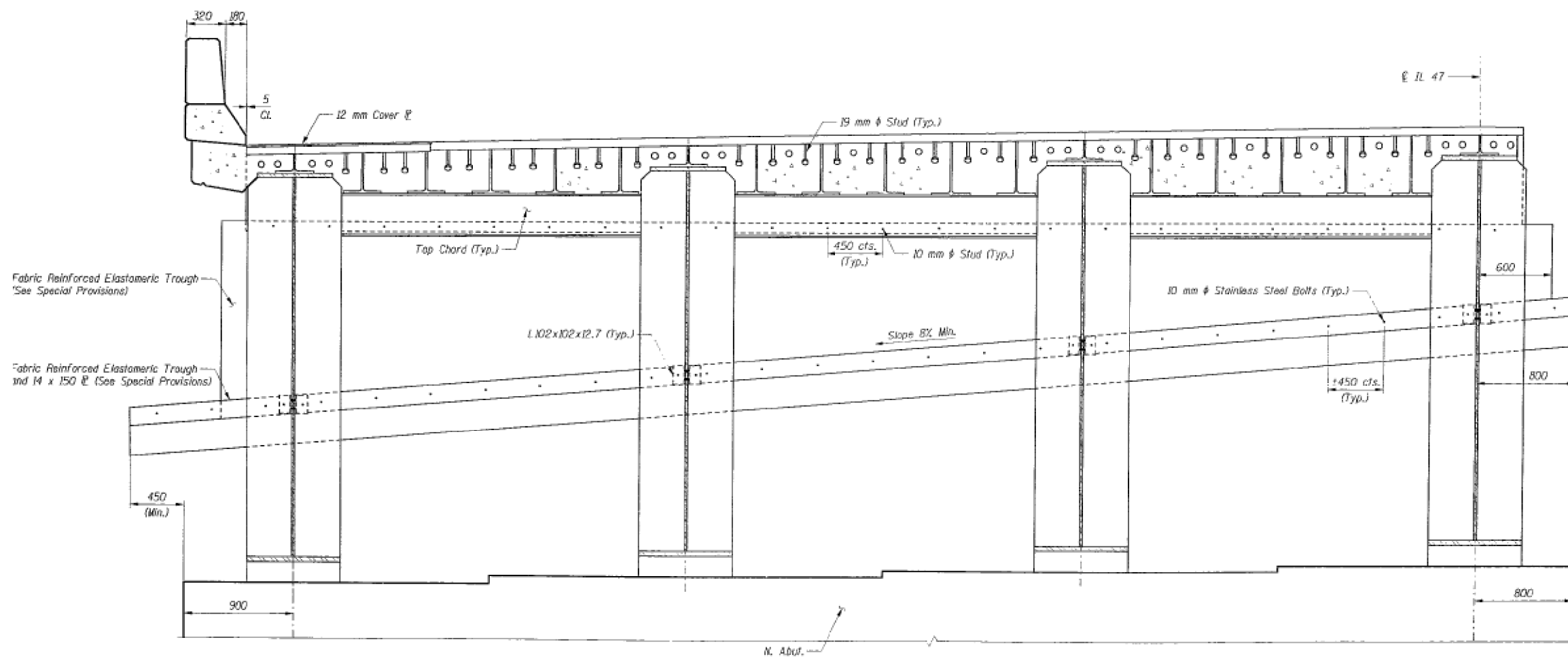
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111)BR-1](1B-1)BP	GRUNDY, LASALLE	55	28
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	GRUNDY	145	112
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	



PLAN OF FINGER & EXPANSION JOINT



SECTION D-D
(Cross Frames Not Shown for Clarity)

FOR INFORMATION ONLY

- Notes:
 1. Work this sheet with Sheet S-036.
 2. All dimensions are in millimeters (mm) except as noted.

SHT. S-035

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAW CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111.114) WARS-1 (111) BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

**EXPANSION JOINT
 NORTH ABUTMENT
 SOUTH BOUND**

DATE: 11/10/00
 DRAWN BY: TMR
 CHECKED BY: JLR

TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 1111 N. WASHINGTON ST., SUITE 100, CHICAGO, IL 60610

MODEL: Default
 FILE: Model: ExpansionJoint.dwg
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USER NAME = grunstad	DESIGNED - TG	REVISED - _____
PLOT SCALE = 100,0000' / in.	DRAWN - TG	REVISED - _____
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED - _____
	DATE - 3/5/2020	REVISED - _____

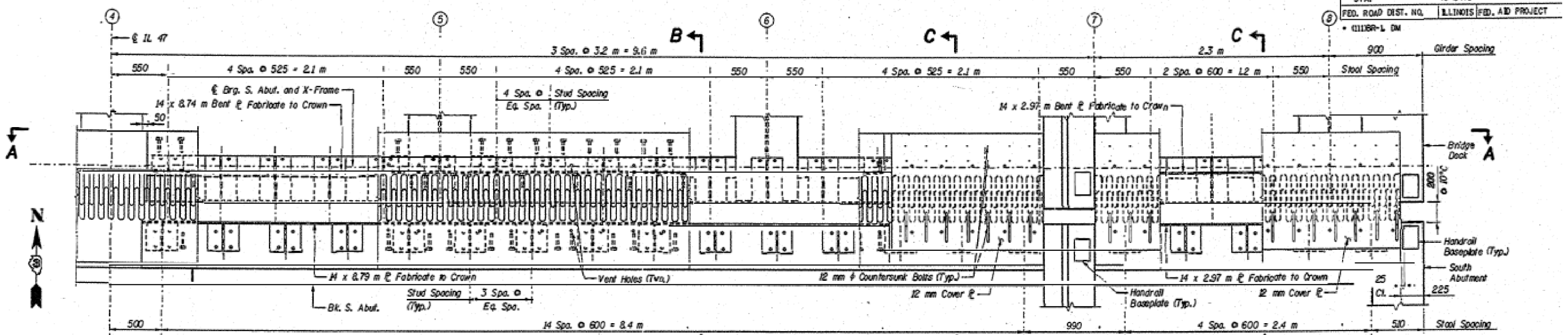
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS FOR
 STRUCTURE NO. 032-0099

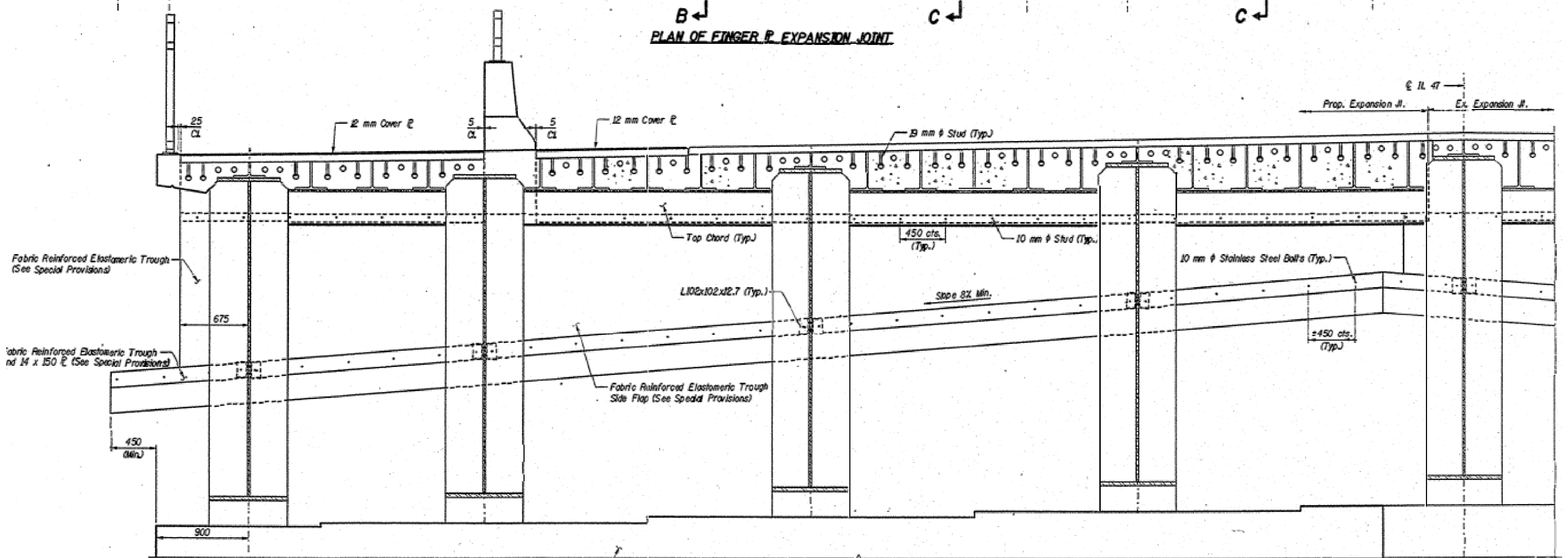
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	[(111)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	29
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		GRUNDY	137	103
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PLAN OF FINGER & EXPANSION JOINT



SECTION A-A
(Cross Frames Not Shown for Clarity)

FOR INFORMATION ONLY

SHT. S-035

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER TAM CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC 0111BR W&S-B (IID) BR. BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200 - GRUNDY COUNTY
 PUBLIC WATERS

**EXPANSION JOINT
 SOUTH ABUTMENT
 NORTH BOUND**

DATE: 07/15/02

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

- Notes:**
1. Work this sheet with Sheet S-037.
 2. All dimensions are in millimeters (mm) except as noted.

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PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

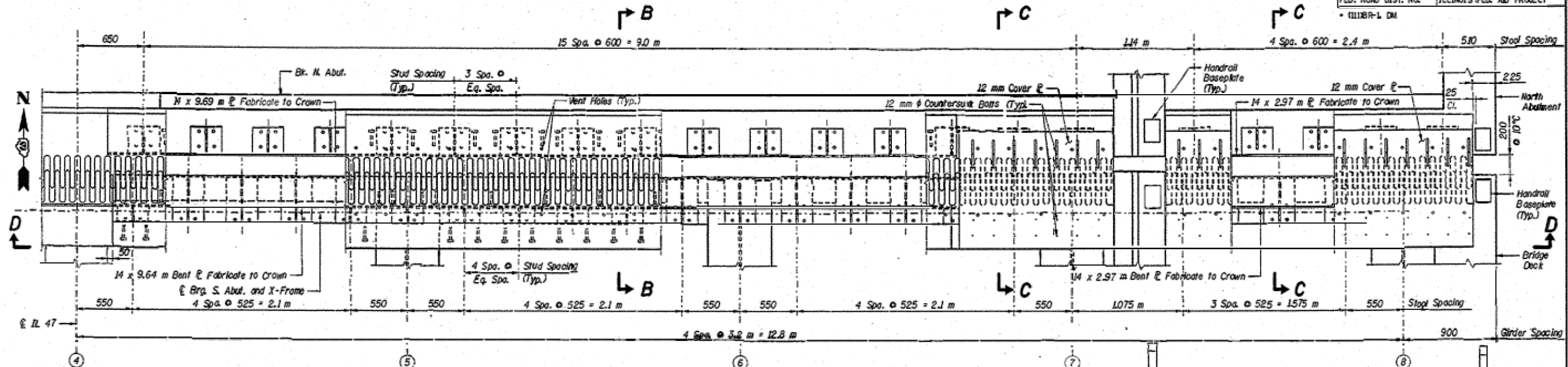
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAILS FOR
 STRUCTURE NO. 032-0099**

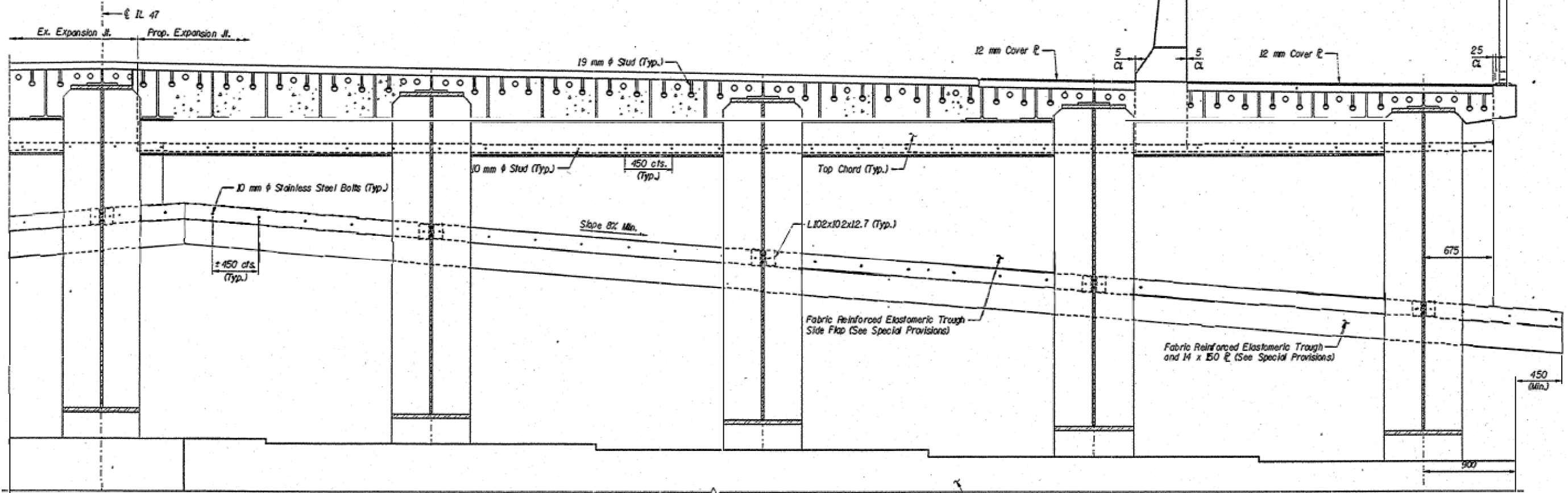
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	[(111)BR-1](1B-1)BP	GRUNDY, LASALLE	55	30
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS FED. AID PROJECT				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326			137	104
STA.	TO			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
• (111BR-1) DM				



PLAN OF FINGER P EXPANSION JOINT



SECTION D-D
(Cross Frames Not Shown for Clarity)

FOR INFORMATION ONLY

SHT. S-036

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IAW CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC 0118B W&RS-1; 0111 BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

EXPANSION JOINT
 NORTH ABUTMENT
 NORTH BOUND

DATE: 07/15/02

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

Notes:
 1. Work this sheet with Sheet S-037.
 2. All dimensions are in millimeters (mm) except as noted.

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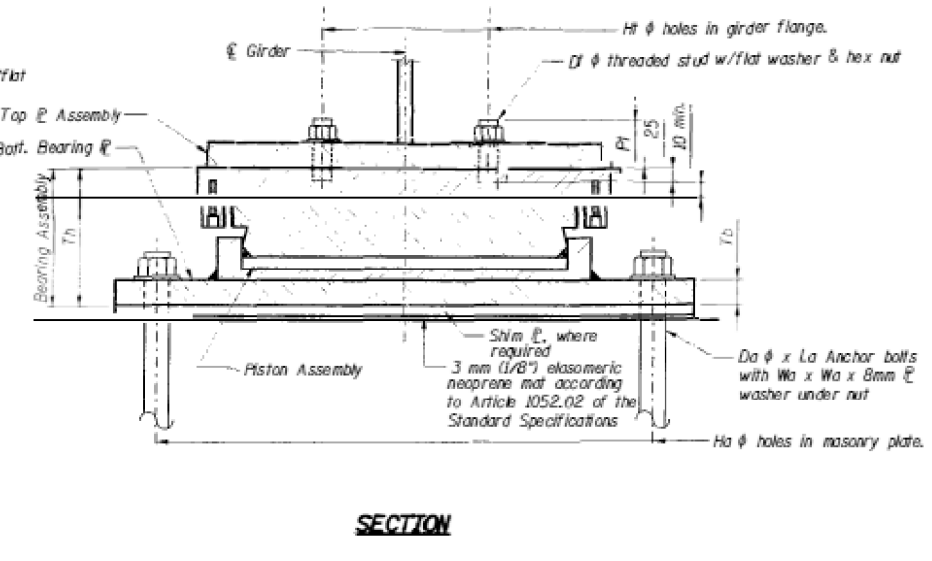
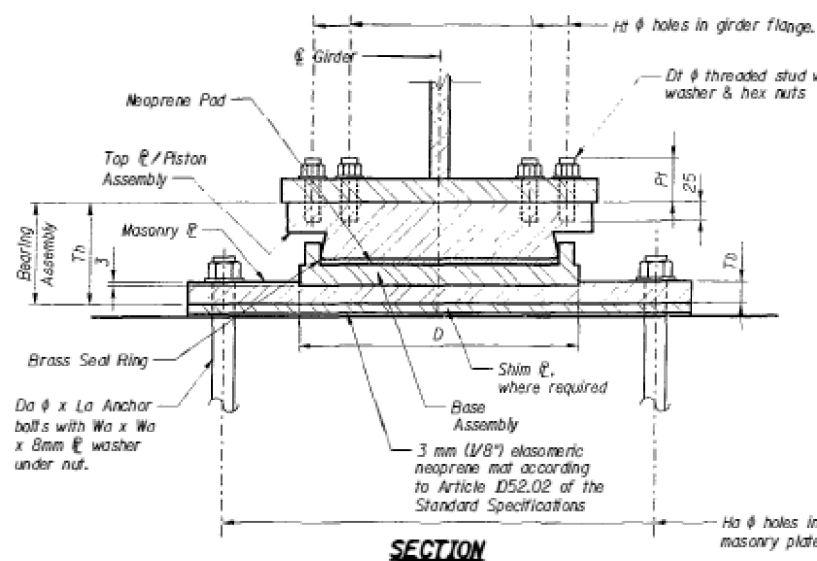
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	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

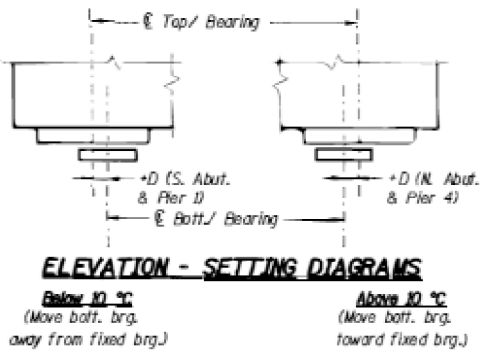
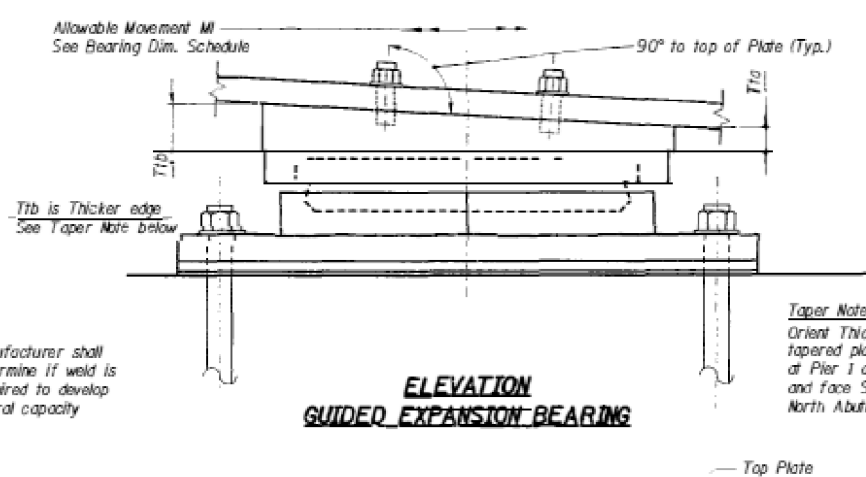
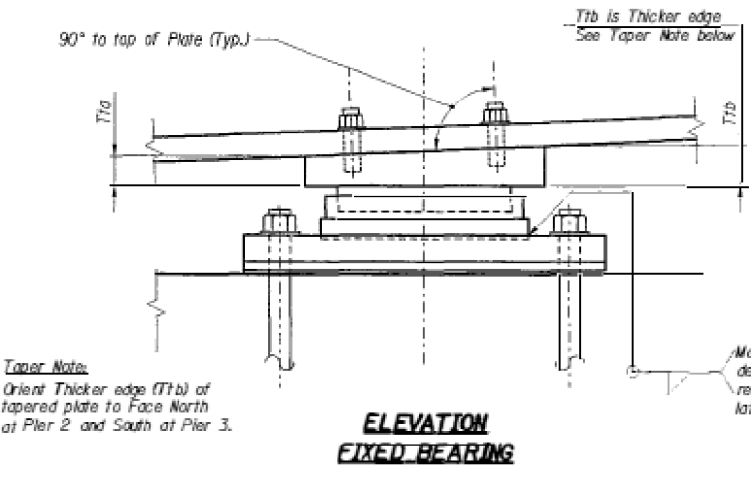
EXPANSION JOINT DETAILS FOR
 STRUCTURE NO. 032-0099

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

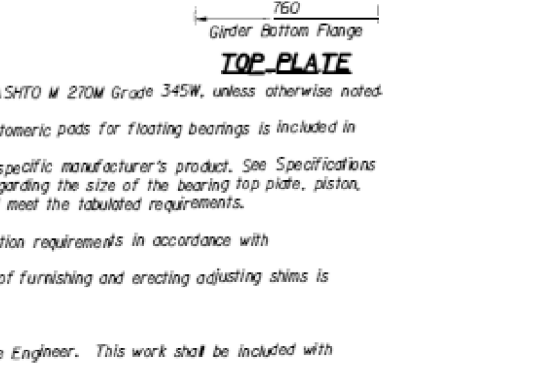
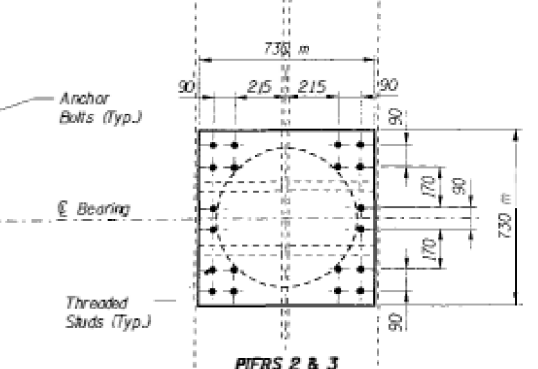
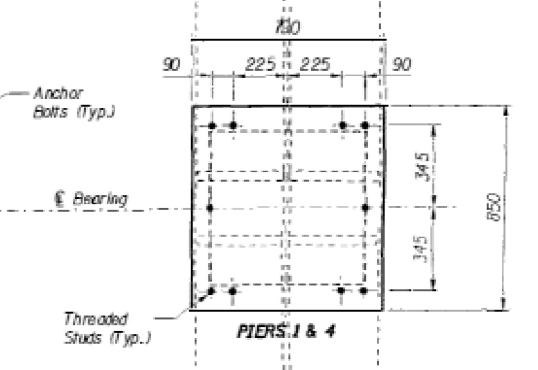
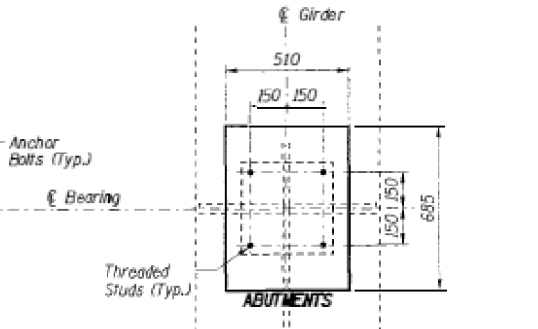
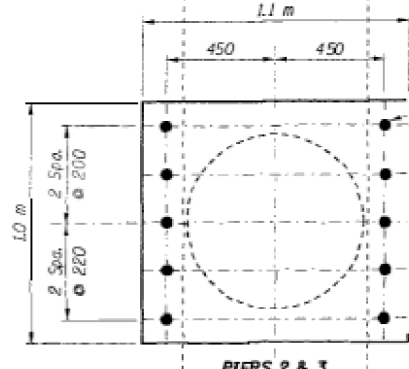
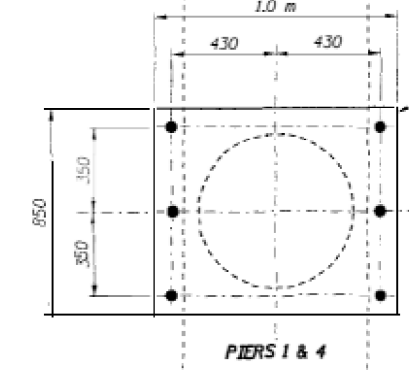
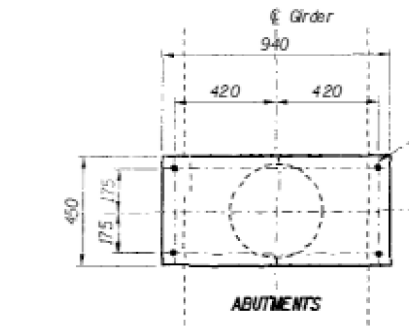
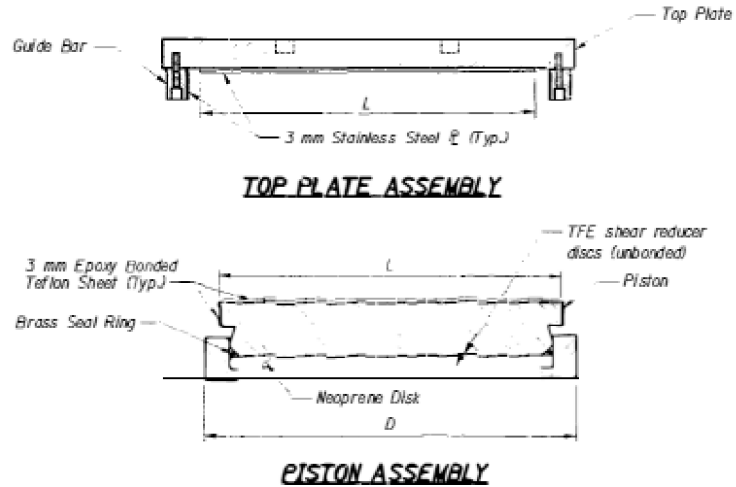
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	31
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS FED. AID PROJECT				



Notes: M48 Anchor Bolts at fixed bearings shall be built into the masonry.



Temp. (°C)	D ^a Abutments (mm)	D ^a Piers 1 & 4 (mm)
-34	-127	-83
-20	-87	-57
-10	-58	-38
0	-29	-19
D	0	0
20	29	19
30	58	38
40	87	57
54	127	83



- Notes:**
- All steel for floating bearings shall conform to the requirements of AASHTO M 270M Grade 345W, unless otherwise noted.
 - Anchor bolts and threaded studs shall be M 164M (A325M).
 - The cost of furnishing and erecting anchor bolts, shim plates and elastomeric pads for floating bearings is included in the cost of Floating Bearings.
 - The dimensions and details shown for the floating bearings are for a specific manufacturer's product. See Specifications regarding changes to dimensions and details. Information not shown regarding the size of the bearing top plate, piston, and base assemblies shall be determined by the manufacturer and shall meet the tabulated requirements.
 - The sliding coefficient of friction shall not exceed 3 percent.
 - Certification of compliance to proof load and sliding coefficient of friction requirements in accordance with AASHTO 18.3.5.3 shall be provided with shop drawing submittal.
 - Adjusting shims shall be placed as required during erection. The cost of furnishing and erecting adjusting shims is included in the cost of Floating Bearings.
 - All dimensions are in millimeters (mm) except as noted.
 - The bearings shall be blocked during the erection of structural steel.
 - The Contractor shall submit to the Erection Procedure for approval by the Engineer. This work shall be included with the pay item for Floating Bearings.

Type	Vertical Load kN	Lateral Load kN	Quantity Each	Location	Th mm	M mm	D mm	L mm	Top Plate					Bottom Bearing Plate				
									T1a mm	T1b mm	Df mm	Ht mm	Pt mm	Tb mm	Da mm	Ha mm	La mm	Wa mm
Floating Bearing, Guided Expansion, 1900kN	8150	-	4	S. Abut.	253	254	381	343	50	80	M24	450	940	70	M24	40	380	60
Floating Bearing, Guided Expansion, 5700kN	5530	-	4	1	333	166	638	575	82	120	M30	850	1000	70	M36	52	450	75
Floating Bearing, Fixed, 6500kN	6111	2030	4	2	263	0	726	-	43	75	M30	1000	1100	70	M48	64	600	85
Floating Bearing, Fixed, 6500kN	6111	2030	4	3	263	0	726	-	43	75	M30	1000	1100	70	M48	64	600	85
Floating Bearing, Guided Expansion, 5700kN	5530	-	4	4	333	166	638	575	82	120	M30	850	1000	70	M36	52	450	75
Floating Bearing, Guided Expansion, 1900kN	1815	-	4	N. Abut.	253	254	381	343	50	80	M24	450	940	70	M24	40	380	60

Item	Unit	Total
Floating Bearing, Guided Expansion, 1900kN	Each	8
Floating Bearing, Guided Expansion, 5700kN	Each	8
Floating Bearing, Fixed, 6500kN	Each	8

NAME	DATE

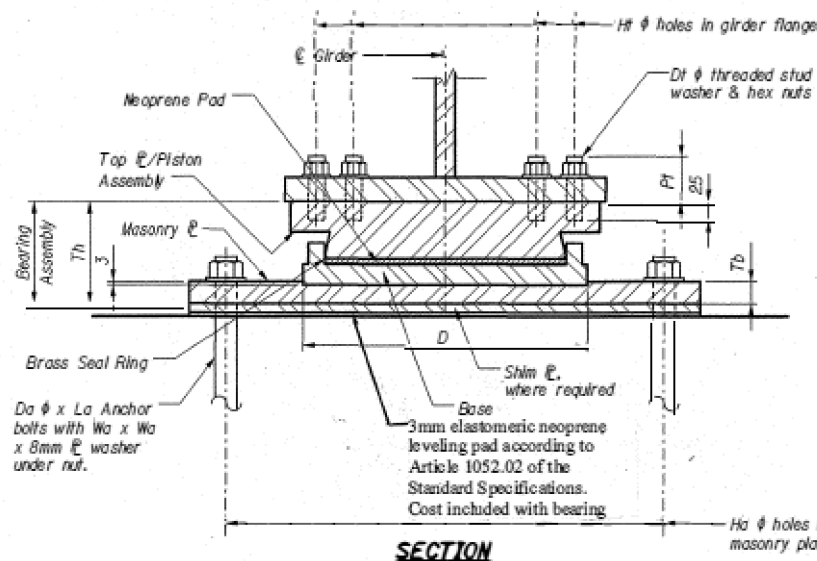
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER IRR CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC 011,118 WARS-4 011D BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 21+43.200 - GRUNDY COUNTY
 PUBLIC WATERS
 BEARING DETAILS
 SOUTH BOUND
 DATE: 11/10/20

FOR INFORMATION ONLY

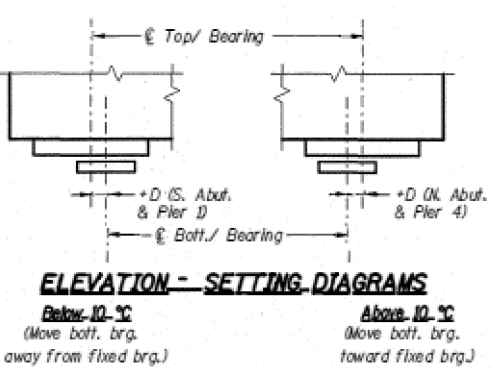
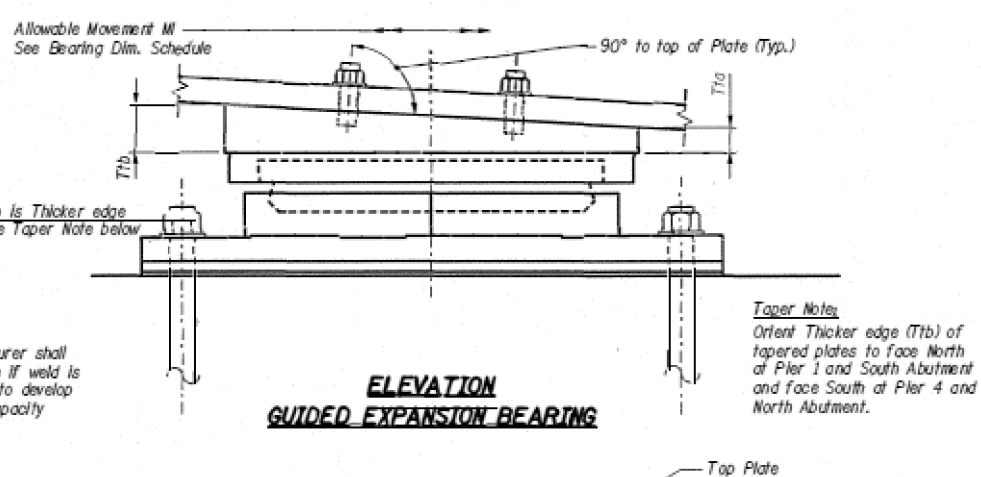
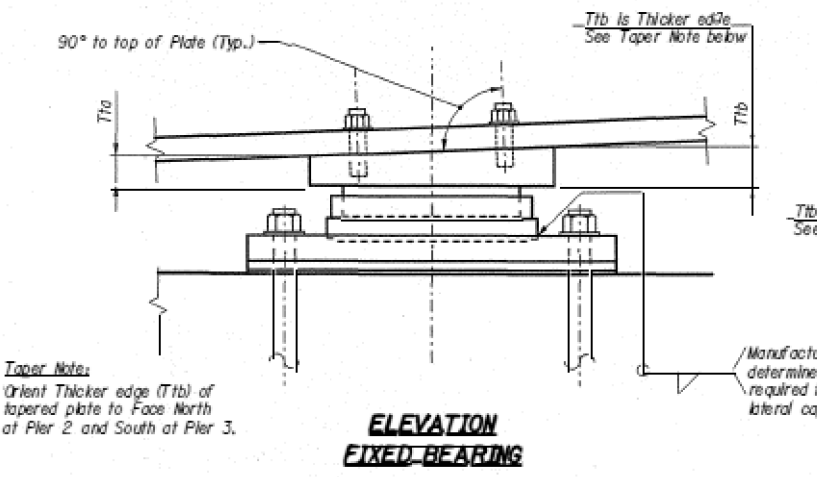
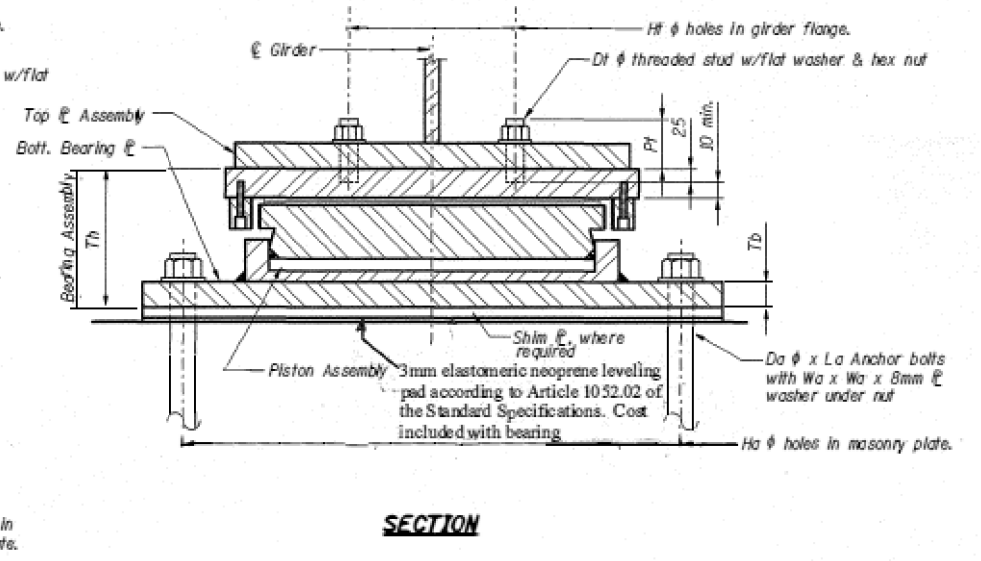
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS FOR
 STRUCTURE NO. 032-0099

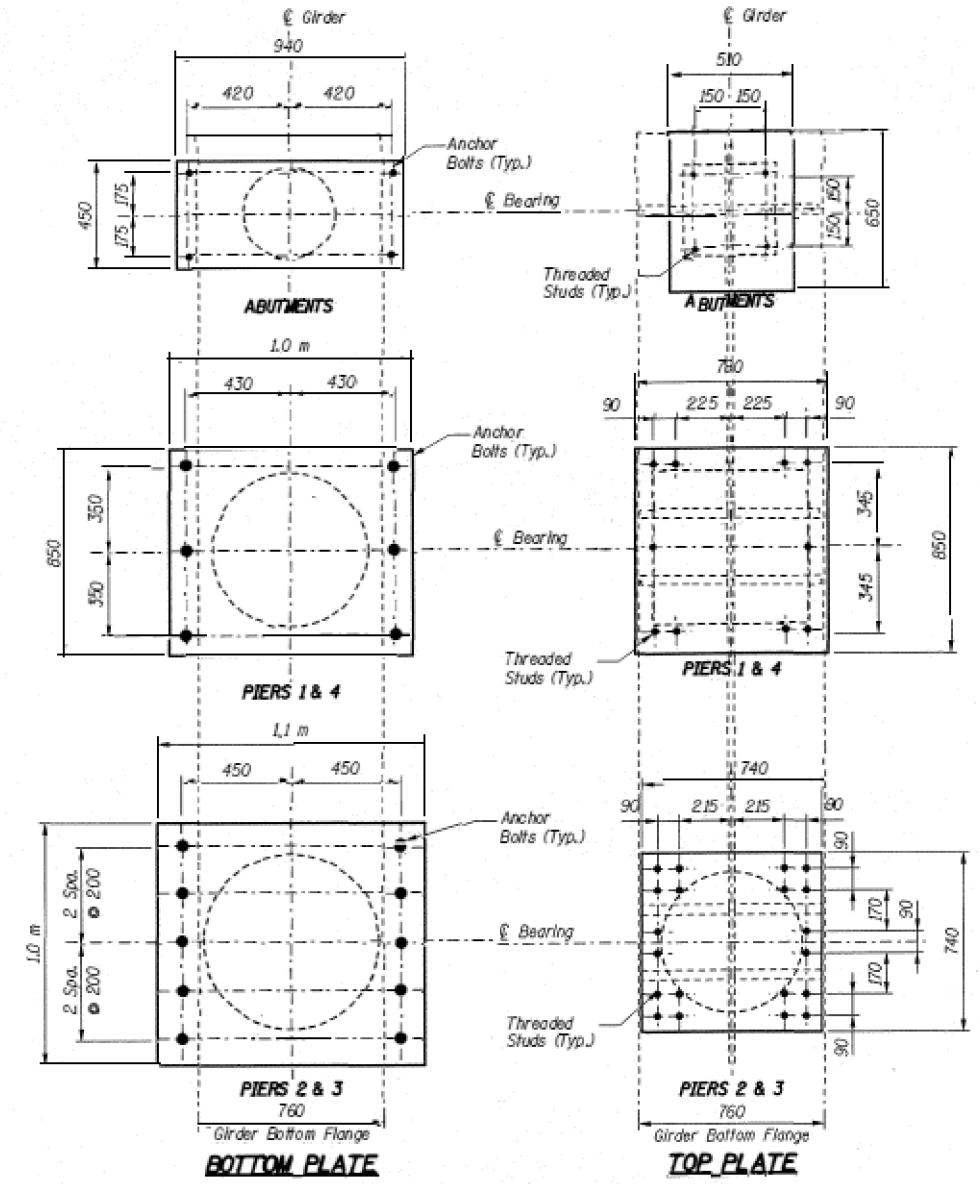
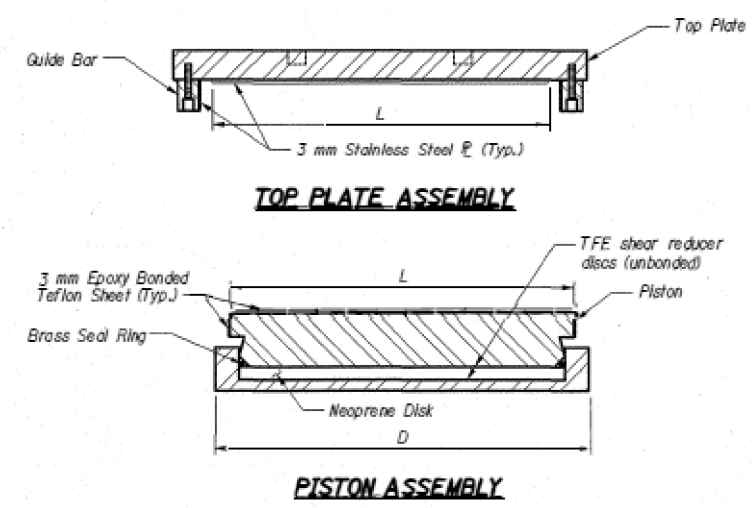
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Note: M48 Anchor Bolts at fixed bearings shall be bolted into the masonry.



Temp. (°C)	D° Abutments (mm)	D° Piers 1 & 4 (mm)
-34	-127	-83
-20	-87	-57
-10	-58	-38
0	-29	-19
D	0	0
20	29	19
30	58	38
40	87	57
54	127	83



- Notes:**
- All steel for floating bearings shall conform to the requirements of AASHTO M 270M Grade 345W, unless otherwise noted.
 - Anchor bolts and threaded studs shall be M 164M (A325M).
 - The cost of furnishing and erecting anchor bolts, shim plates and elastomeric pads for floating bearings is included in the cost of Floating Bearings.
 - The dimensions and details shown for the floating bearings are for a specific manufacturer's product. See Specifications regarding changes to dimensions and details. Information not shown regarding the size of the bearing top plate, piston, and base assemblies shall be determined by the manufacturer and shall meet the tabulated requirements.
 - The sliding coefficient of friction shall not exceed 3 percent.
 - Certification of compliance to proof load and sliding coefficient of friction requirements in accordance with AASHTO 18.3.5.3 shall be provided with shop drawing submittal.
 - Adjusting shims shall be placed as required during erection. The cost of furnishing and erecting adjusting shims is included in the cost of Floating Bearings.
 - All dimensions are in millimeters (mm) except as noted.
 - The bearings shall be blocked during the erection of structural steel.
 - The Contractor shall submit the Erection Procedure for approval by the Engineer. This work shall be included with the pay item for Floating Bearings.

Type	Vertical Load kN	Lateral Load kN	Quantity Each	Location	Th mm	M mm	D mm	L mm	Top Plate					Bottom Bearing Plate				
									Tth mm	Ttb mm	Dt mm	Ht mm	Pt mm	Tb mm	Da mm	Ha mm	La mm	Wa mm
Floating Bearing, Guided Expansion, 1900kN	1815	-	4	S. Abut.	254	254	387	349	51	80	M24	28	90	64	M24	40	380	60
Floating Bearing, Guided Expansion, 5700kN	5530	-	4	1	361	166	670	591	82	120	M30	34	110	64	M36	52	450	75
Floating Bearing, Fixed, 6500kN	611	2030	4	2	254	0	740	-	42	75	M30	34	125	60	M48	64	600	85
Floating Bearing, Fixed, 6500kN	611	2030	4	3	254	0	740	-	42	75	M30	34	125	60	M48	64	600	85
Floating Bearing, Guided Expansion, 5700kN	5530	-	4	4	361	166	670	591	82	120	M30	34	110	64	M36	52	450	75
Floating Bearing, Guided Expansion, 1900kN	1815	-	4	N. Abut.	254	254	387	349	51	80	M24	28	90	64	M24	40	380	60

Item	Unit	Total
Floating Bearing, Guided Expansion, 1900kN	Each	8
Floating Bearing, Guided Expansion, 5700kN	Each	8
Floating Bearing, Fixed, 6500kN	Each	8

SHT. S-049

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL 47 OVER I&M CANAL AND ILLINOIS RIVER
 F.A. RTE 326 SEC (111)BR BR-1 Q11 BR, BR-1
 STRUCTURE NUMBER 032-0099
 STATION 27+013.200, GRUNDY COUNTY
 PUBLIC WATERS

BEARING DETAILS
 NORTH BOUND

DATE: 07/15/02

TENG ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

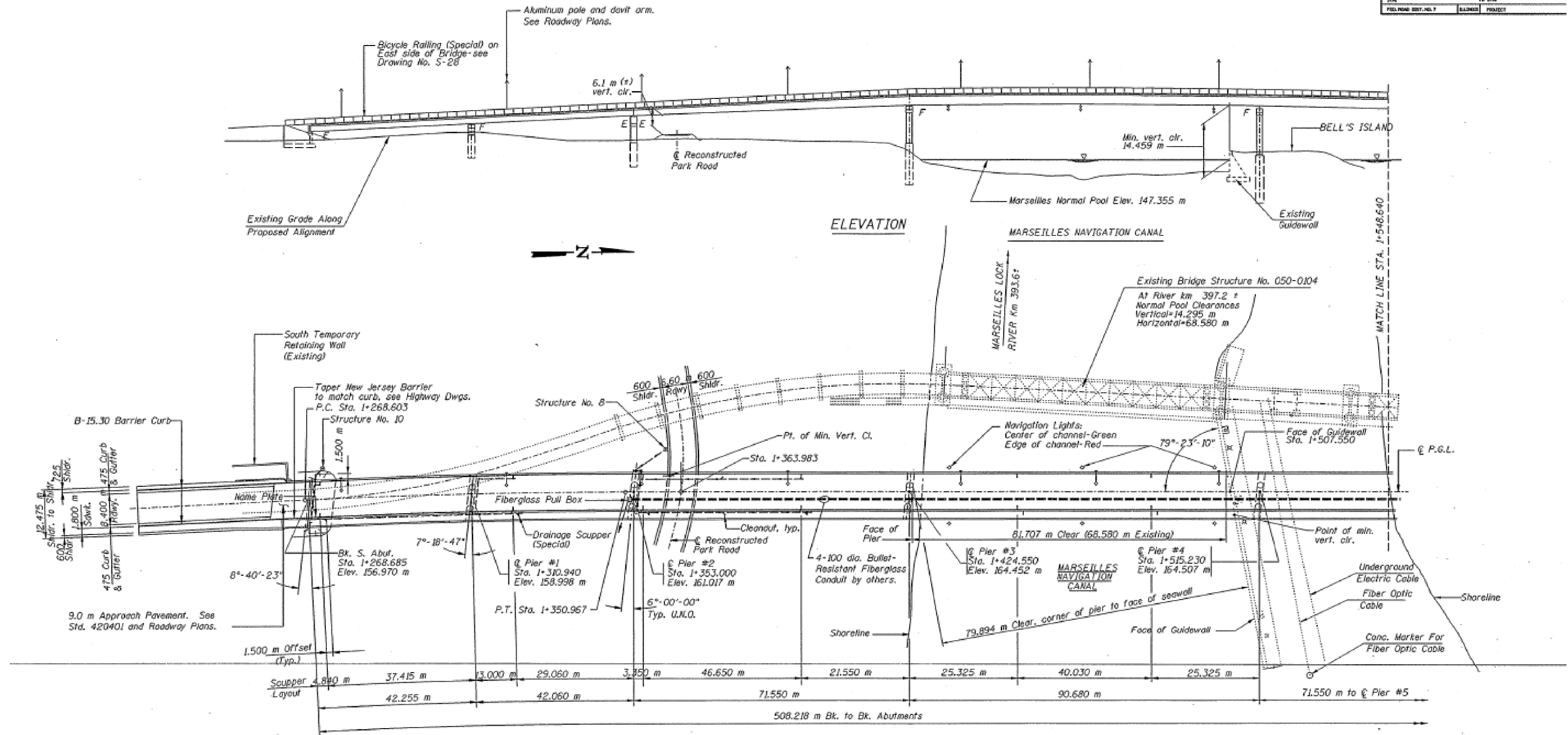
BEARING DETAILS FOR
 STRUCTURE NO. 032-0099

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	33
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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ROUTE NO.	SECTION	COUNTY	SHEETS	"A"
F.A. RTE.	30	LA SALLE	100	30
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



FOR INFORMATION ONLY

- Notes:
1. Temporary Retaining Wall at the South and North Abutments are to accommodate construction of a temporary roadway runaround in this vicinity.
 2. All dimensions are in millimeters (mm) except as noted.
 3. Structure No's 8 and 10 are existing, see Roadway Plans.

GENERAL PLAN
 CH-15 OVER ILLINOIS RIVER
 F.A.O. RTE. 6265 (CH-15) SECTION 1D
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DESIGNED BY: M.H.	PROJECT NO.
DRAWN BY: M.E.W.	DATE: 2-25-17
CHECKED BY: M.J.F.	
APPROVED BY: S.C.J.	
ACTIVITY: RETAIN	

DRAWING NUMBER
S-2

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION FOR
 STRUCTURE NO. 050-0219

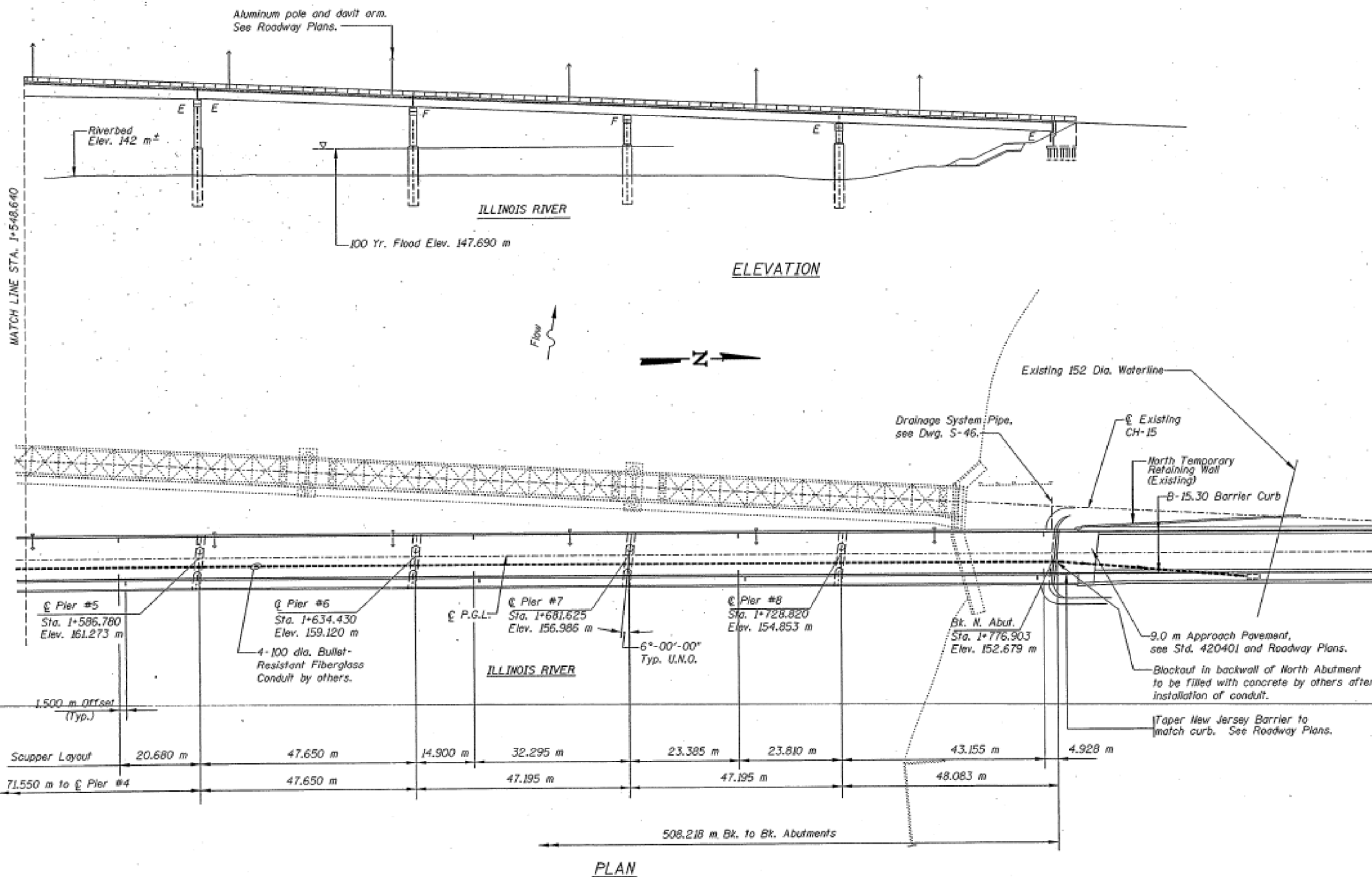
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111BR	BR-1(1B-1)BP	GRUNDY, LASALLE	55	34
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Roadway expansion guards shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.
- The roadway expansion plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.
- The Inorganic Zinc rich Primer / Acrylic / Acrylic paint system shall be used for shop and field painting of New Structural Steel except where otherwise noted. The color of the acrylic finish coat shall be reddish brown Munsell No. 2.5 YR 3/4. The field coats for all existing structural steel including girders and cross frames is included in this contract. See Special Provisions "Cleaning and Painting Metal Structures".
- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- Reinforcement bars shall conform to the requirements of AASHTO M-31M, M-42M or M-53M Grade 400.
- When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum modulus of rupture of 4.5 MPa or a minimum compressive strength of 24 MPa.



FOR INFORMATION ONLY

Note: All dimensions are in millimeters (mm) unless noted otherwise.

GENERAL PLAN CH-15 OVER ILLINOIS RIVER	
F.A.N. RTE. 6265 (CH-15)	SECTION ID
LA SALLE COUNTY	STA. 1+922.794
STRUCTURE NUMBER 050-0219	
CDI CLARK DIETZ, INC. ENGINEERS ARCHITECTS	
CHAMPAIGN, ILLINOIS	CHICAGO, ILLINOIS
MULTI-DISCIPLINARY DATA IS SET TO BE OBTAINED BY SOLIDWORKS PARTS OF THIS DRAWING.	
DESIGNED BY: H.J.L.	CHECKED BY:
DRAWN BY: H.E.N.	DATE: 2-15-22
DESIGNED BY: M.J.F.	
APPROVED BY: S.C.T.	
ACTIVITY: STALS	
DRAWING NUMBER S-3	

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

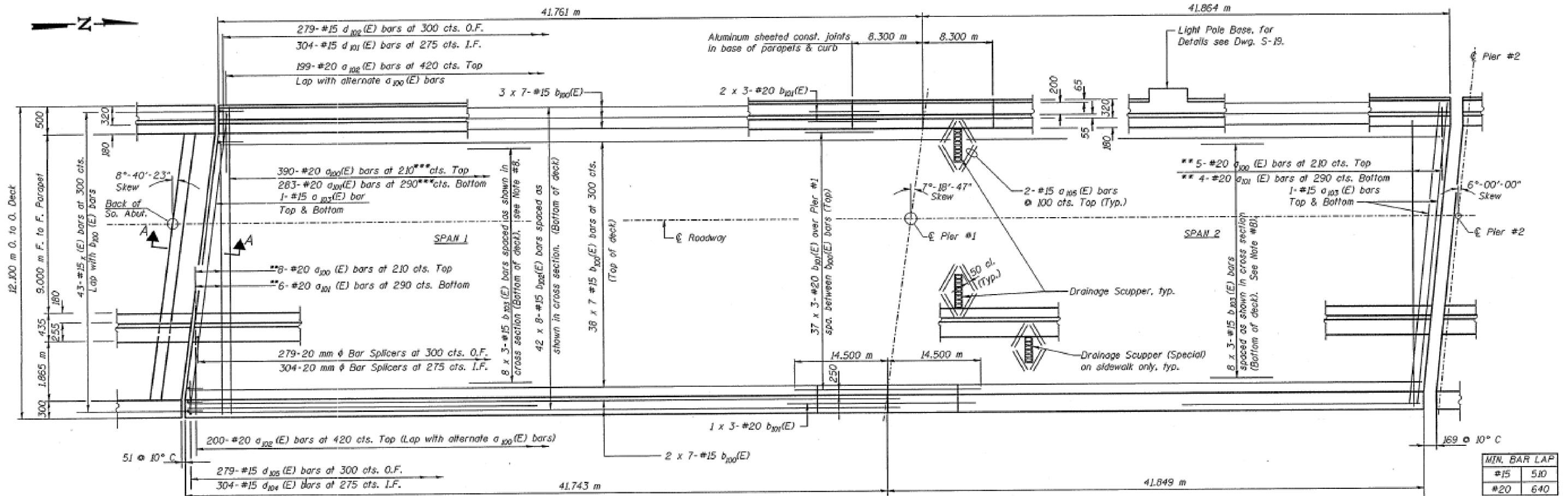
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION FOR
STRUCTURE NO. 050-0219**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111BR, BR-1(1B-1)BP		GRUNDY, LASALLE	55	35
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

FILE NO.	100	LA SHEET	4
STA.	TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	



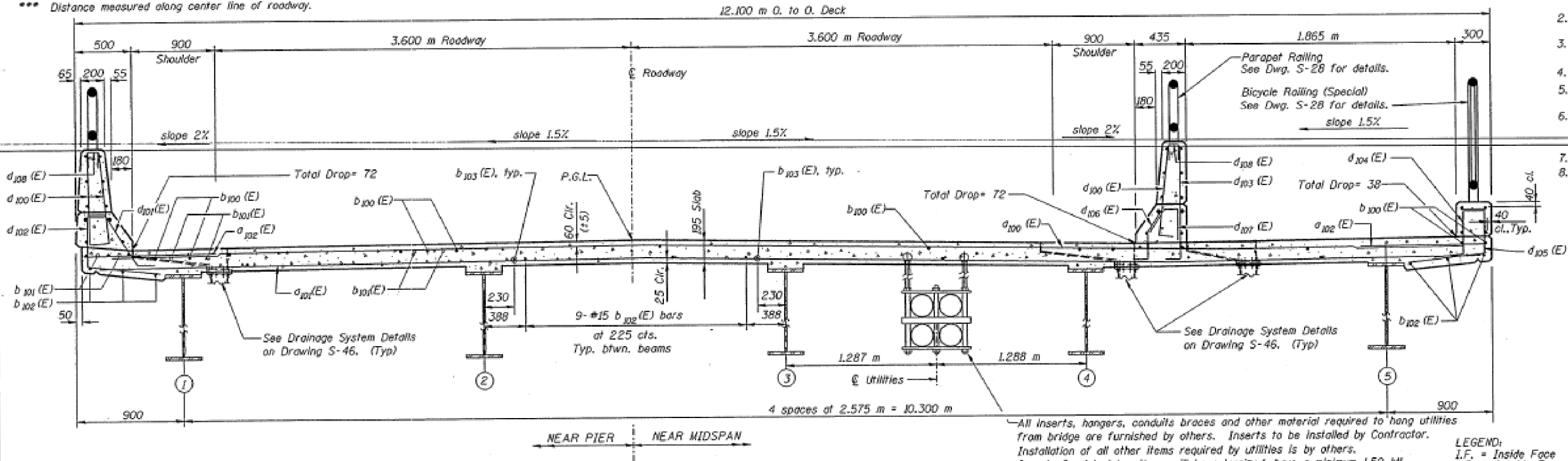
** Order $d_{102}(E)$ & $d_{101}(E)$ bars full length. Field cut to fit skew and use remainder of bars in opposite end.

*** Distance measured along center line of roadway.

PLAN

- Notes:
- See Drawing S-16 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 - See Drawing S-16 for parapet reinforcement.
 - All dimensions are in millimeters (mm) except as noted.
 - All Scuppers and Light Pole Bases are not shown in Plan. See Drawing S-19 and S-20 for details, locations and Rail Post spacing.
 - See Drawing S-19 for Section A-A.
 - #15 $b_{103}(E)$ bars shall be placed as shown at locations where the top girder flange is 310 mm wide. See Drawing S-32.

MIN. BAR LAP	
#15	510
#20	640



CROSS SECTION (Looking North)

All inserts, hangers, conduits braces and other material required to hang utilities from bridge are furnished by others. Inserts to be installed by Contractor. Installation of all other items required by utilities is by others. Inserts furnished by others will be galvanized, have a minimum 150 kN capacity and shall engage with the bottom reinforcement mat. Inserts are at 3.0 m centers, see Plans by others for location. Cost of installing inserts is included in unit price bid for CONCRETE SUPERSTRUCTURE.

LEGEND:
I.F. = Inside Face
O.F. = Outside Face

FOR INFORMATION ONLY

DECK PLAN & SECTION- SPANS 1 & 2
CH-15 OVER ILLINOIS RIVER

F.A.U. ME, 6265 (CH-15) SECTION 1D
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

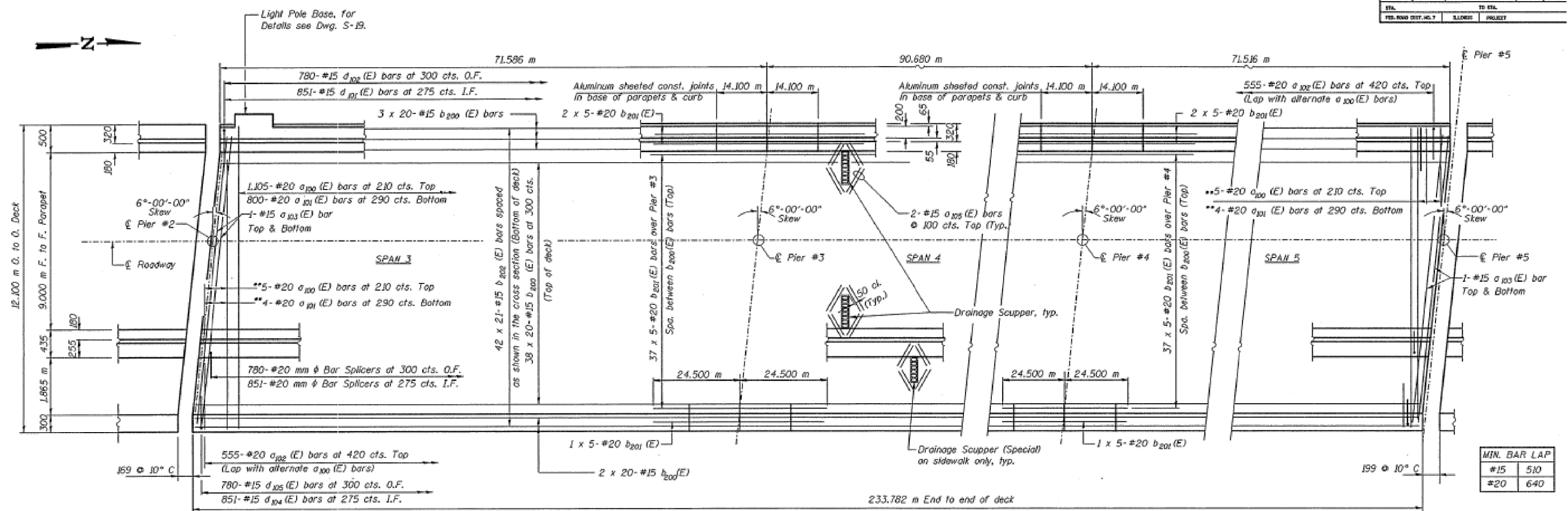
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

REVISIONS:

DESIGNED BY:	H.M.	DATE:	2-15-27
CHECKED BY:	M.J.F.		
APPROVED BY:	S.C.J.		

DRAWING NUMBER: S-13

PROJECT NO.	100	42
FAILURES	LA SALLE	
STA.	TO STA.	
FED. ROAD DIST. NO. 7	SHEET	PROJECT

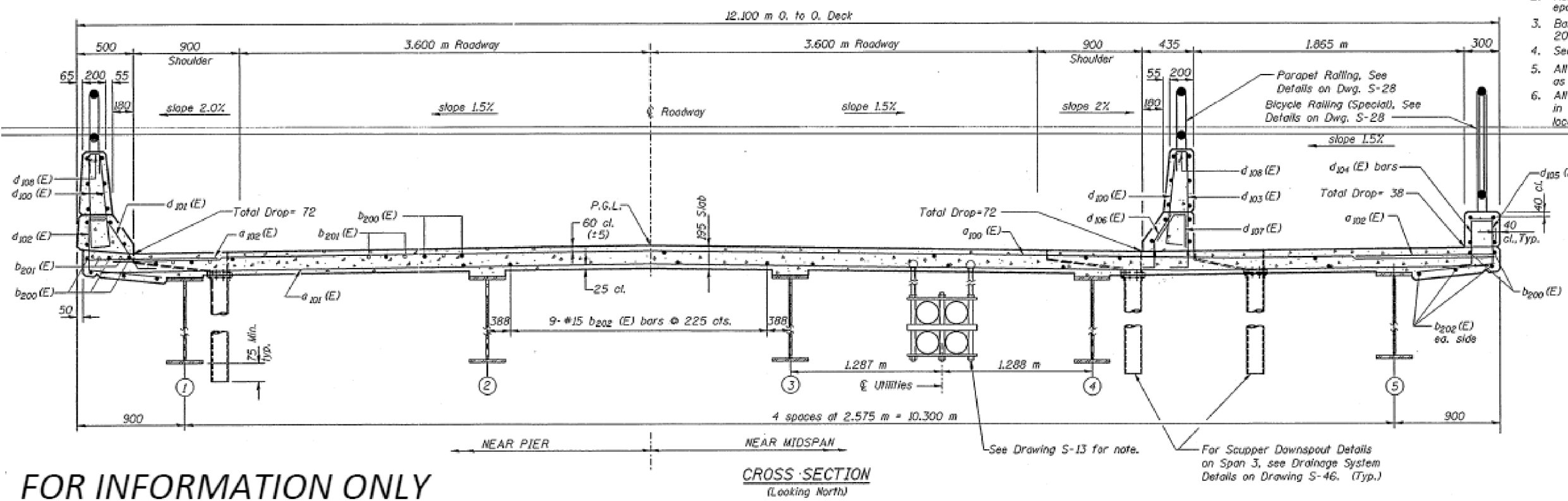


MIN. BAR LAP	
#15	510
#20	640

** Order a₁₀₀(E) & a₁₀₁(E) bars full length. Field cut to fit skew and use remainder of bars in opposite end.

- Notes:**
- See Drawing S-17 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 - See Drawing S-17 for parapet reinforcement.
 - All dimensions are in millimeters (mm) except as noted.
 - All Scuppers and Light Pole Bases are not shown in Plan. See Drawing S-19 and S-21 for details, locations and Rail Post spacing.

LEGEND:
I.F. = Inside Face
O.F. = Outside Face



FOR INFORMATION ONLY

DECK PLAN & SECTION- SPANS 3, 4 & 5
CH-15 OVER ILLINOIS RIVER
F.A.V. RTE. 6265 (CH-15) SECTION 1D
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTE: DIMENSIONAL DATA IS NOT TO BE DERIVED BY SCALE FOR PORTION OF THIS DRAWING.

DESIGNED BY: M.J.M.	PROJECT NO.
DRAWN BY: M.J.M.	DATE: 2-15-20
CHECKED BY: M.J.F.	
APPROVED BY: S.C.J.	
ACTIVITY: DETAILS	

S-14

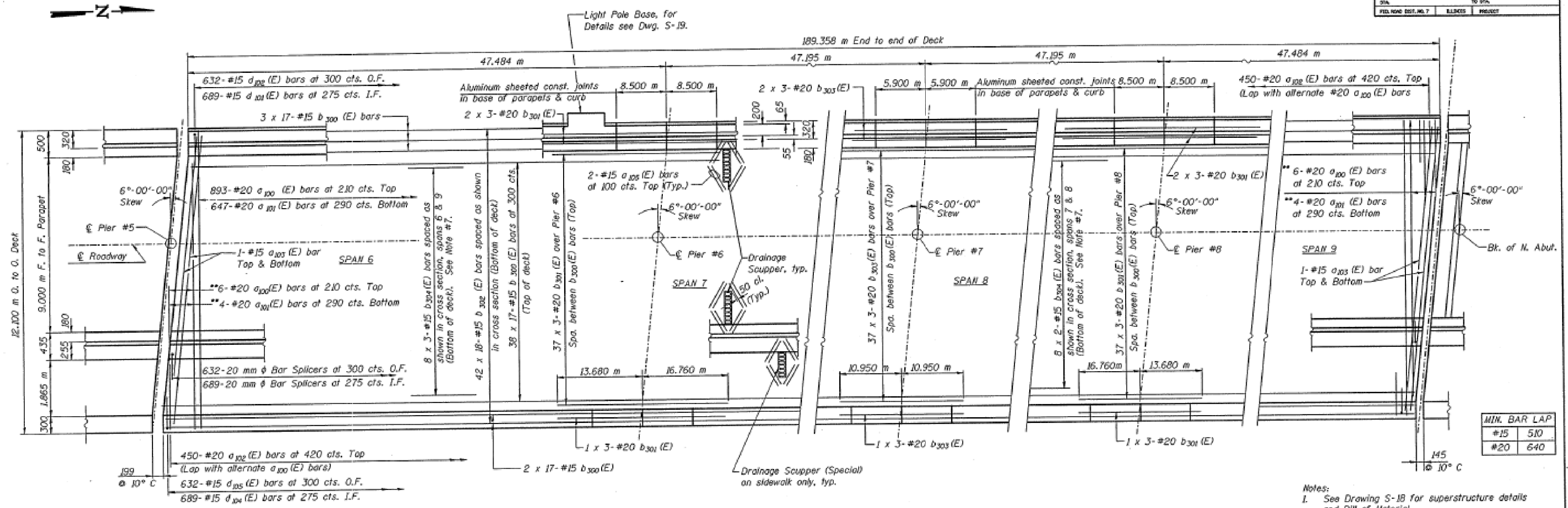
USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS FOR
STRUCTURE NO. 050-0219

SCALE: _____ SHEET 2 OF 3 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	37
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

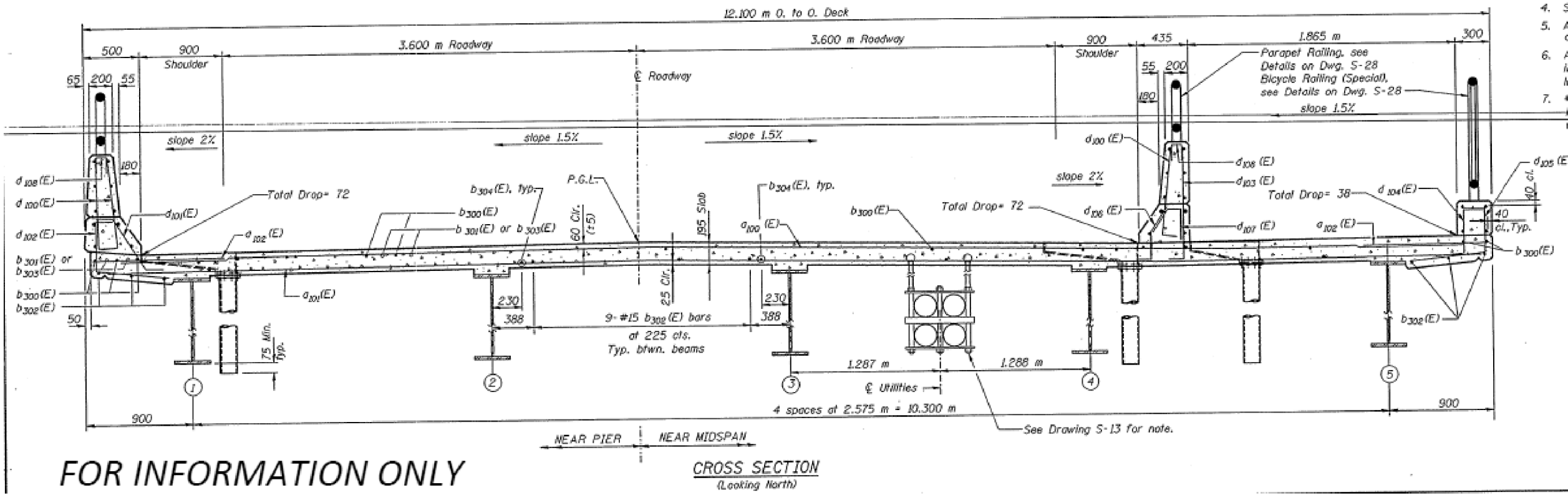


PLAN

** Order a_{100} (E) & a_{101} (E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

- Notes:
- See Drawing S-18 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 - See Drawing S-18 for parapet reinforcement.
 - All dimensions are in millimeters (mm) except as noted.
 - All Scuppers and Light Pole Bases are not shown in Plan. See Drawing S-19 and S-22 for details, locations and Rail Post spacing.
 - #15 b_{304} (E) bars shall be placed as shown at locations where the top girder flange is 310 mm wide. See Drawing S-34.

MIN. BAR LAP	
#15	510
#20	640



CROSS SECTION (Looking North)

FOR INFORMATION ONLY

LEGEND:
I.F. = Inside Face
O.F. = Outside Face

DECK PLAN & SECTION - SPANS 6, 7, 8 & 9
CH-15 OVER ILLINOIS RIVER
F.A.N. RTE. 6265 (CH-15) SECTION 1D
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DATE: 2-18-17
PROJECT NO.:
SHEET NO.: 55 OF 38
DRAWING NUMBER: S-15

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS FOR
STRUCTURE NO. 050-0219

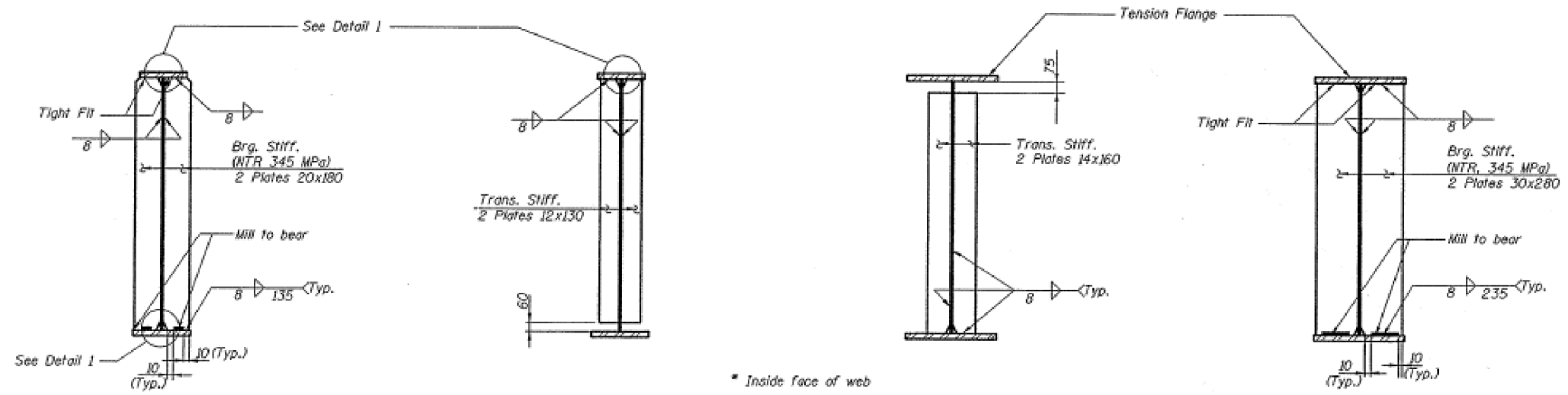
SCALE: _____ SHEET 3 OF 3 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111BR, BR-1(1B-1)BP		GRUNDY, LASALLE	55	38
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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 PROJECT: 050-0219-15-15
 OFFICE: CHICAGO
 DATE: 3/16/2020
 USER: grunstad

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 326	10	LA SALLE	100	60
STA.	TO STA.			
FED. AID DIST. NO. 7	ILLINOIS	PROJECT		

- NOTES:**
- All structural steel for plate girders, bearing stiffeners and splice plates shall be AASHTO M270 Grade 345.
 - N.T.R. designates members subject to the supplemental requirements for notch toughness (Zone 2).
 - Clip all stiffener plates and cross frame connection plates 25 mm horizontally and 80 mm vertically at web to flange connection. See Detail 1.
 - Fasteners shall be high strength M22 bolts, 24 mm diameter holes, unless otherwise noted.
 - The ends of plate girders shall be cut vertically.
 - All bearing stiffeners, intermediate stiffeners and cross frame plates shall be perpendicular to the centerline of the plate girders.
 - No. of Shear Studs required:
 Spans 1 & 2 456 / beam x 5 = 2,280
 Spans 3, 4 & 5 885 / beam x 5 = 4,425
 Spans 6, 7, 8 & 9 1,128 / beam x 5 = 5,640
 Total = 12,345
 - Information on this sheet is based upon horizontal curve data rounded to the nearest 5 mm.
 - All dimensions are in millimeters (mm) except as noted.
 - The top of the top flange in the area of stud shear connectors shall be painted in the shop with one coat of the zinc silicate primer. The dry film paint thickness shall be 1.5 mils maximum. See Special Provisions.



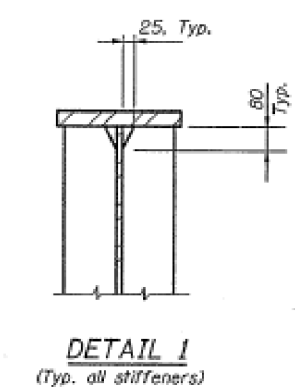
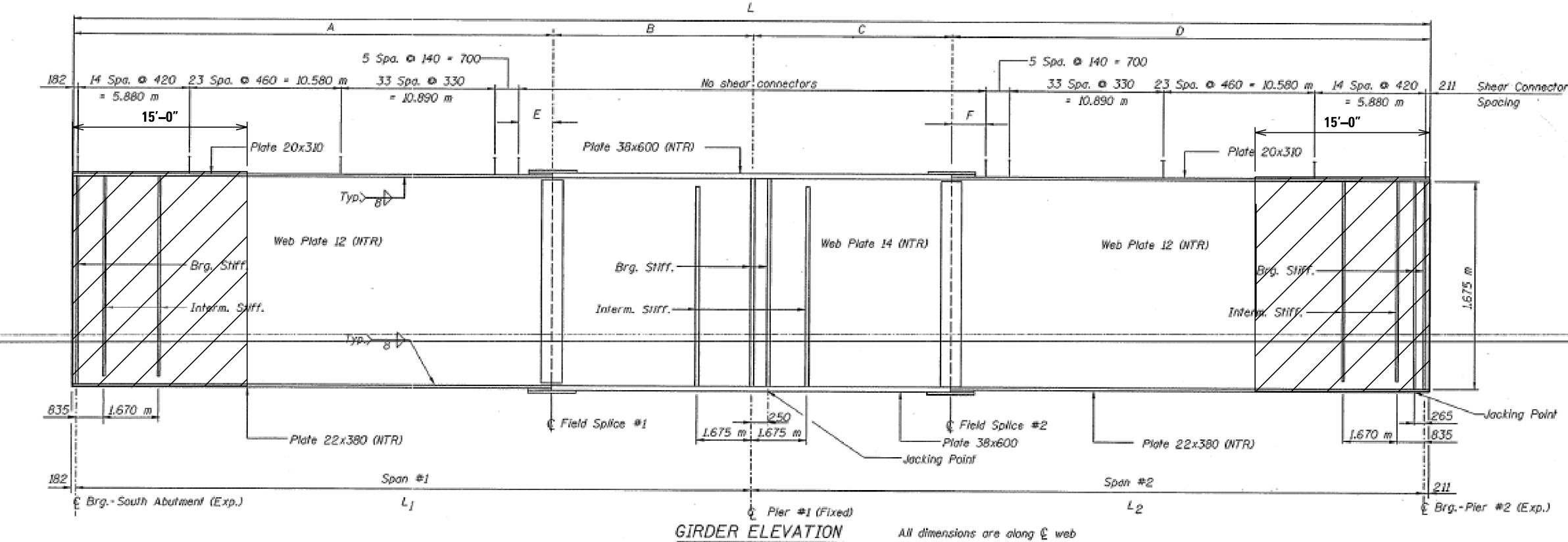
BEARING STIFFENER @ SOUTH ABUTMENT AND PIER NO. 2
 Brg. Stiff. (NTR, 345 MPa) 2 Plates 20x180
 Trans. Stiff. 2 Plates 12x130
 Mill to bear
 8 135 (Typ.)
 10 (Typ.)

INTERM. STIFFENER NEAR END SUPPORTS
 Int. Girder-2 Plates 12x130
 Ext. Girder-1 Plate 12x130*

INTERM. STIFFENER NEAR PIER NO. 1
 Int. Girder-2 Plates 14x160
 Ext. Girder-1 Plate 14x160*

BEARING STIFFENER AT PIER NO. 1
 Brg. Stiff. (NTR, 345 MPa) 2 Plates 30x280
 Trans. Stiff. 2 Plates 14x160
 Mill to bear
 8 235 (Typ.)
 10 (Typ.)

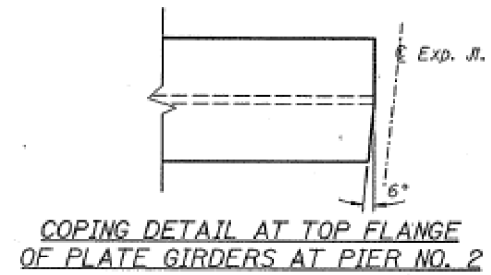
* Inside face of web



SHEAR STUDS ARE INCLUDED IN THIS CONTRACT. OTHER WORK SHOWN IS FOR INFORMATION ONLY.

GIRDER DIMENSIONS

GIRDER	RADIUS (m)	A (m)	B (m)	C (m)	D (m)	E (m)	F (m)	L ₁ (m)	L ₂ (m)	L (m)
1	1,750.475	29.426	12.200	12.200	29.628	1.194	1.367	41.444	41.617	83.454
2	1,747.900	29.427	12.200	12.200	29.629	1.195	1.368	41.445	41.618	83.456
3	1,745.325	29.428	12.200	12.200	29.629	1.196	1.368	41.446	41.618	83.457
4	1,742.750	29.430	12.200	12.200	29.630	1.198	1.369	41.448	41.619	83.460
5	1,740.175	29.431	12.200	12.200	29.631	1.199	1.370	41.449	41.620	83.462



FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
DRAWN - TG	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GIRDER ELEVATION DETAILS FOR
STRUCTURE NO. 050-0219**

SCALE: _____ SHEET 1 OF 3 SHEETS STA. _____ TO STA. _____

**SOUTH APPROACH CURVED GIRDER SPANS 1 & 2-GIRDER ELEVATION
CH-15 OVER ILLINOIS RIVER**
 F.A.D. RTE. 6265 (CH-15) SECTION 10
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY WALKING ANY PORTION OF THIS DRAWING.

DESIGNED BY: M.M. DATE: 2-15-97
 CHECKED BY: M.J.F.
 APPROVED BY: S.C.J.

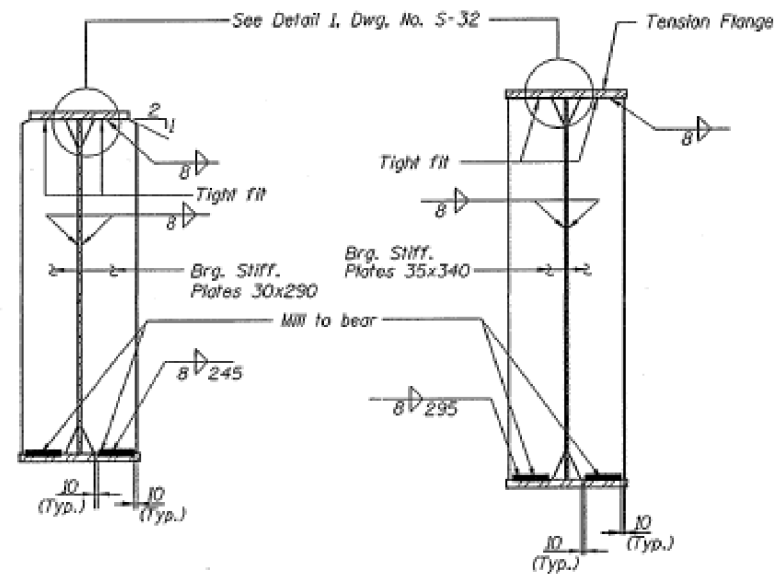
DRAWING NUMBER: **S-32**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	39
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS FED. AID PROJECT				

MODEL: Default FILE: \\nas01\pub\arcom\dat\illinc\sc\p\111101\Documents\11101\Office\Drawings\3\Project\03\66K89\CADD\03\66K89-cover.dwg

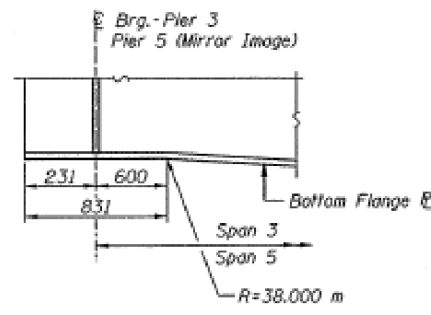
FAS 608	10	LA SALLE	100	61
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

- Notes:
- See notes on Dwg. S-32.
 - All dimensions are in millimeters (mm) except as noted.

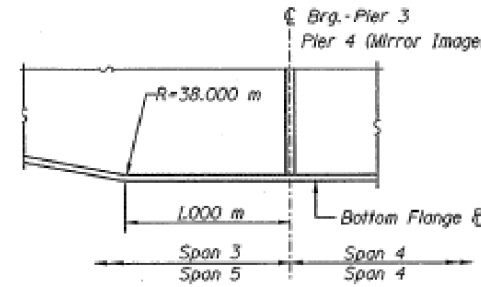


BEARING STIFFENERS
OVER PIER NO. 2 OR NO. 5

BEARING STIFFENERS
OVER PIER NO. 3 & 4



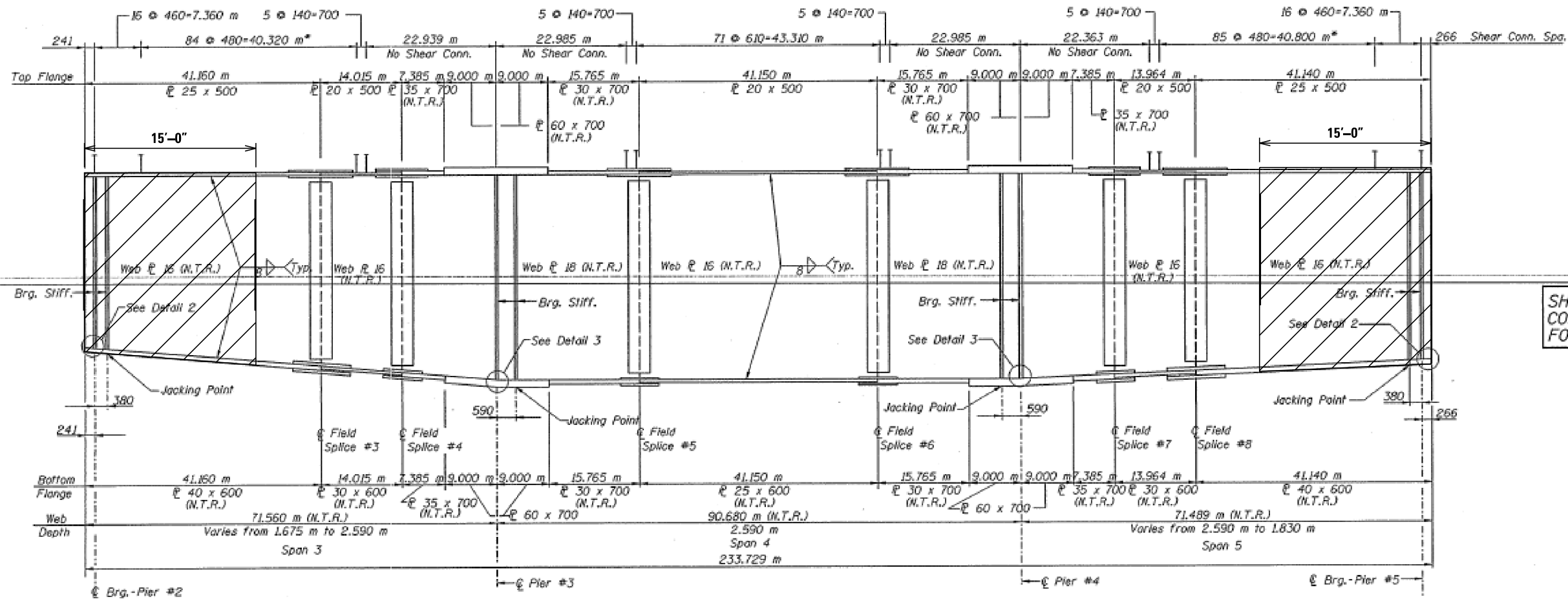
DETAIL 2



DETAIL 3

COPING DETAIL AT TOP FLANGE
OF PLATE GIRDERS AT PIER NO. 2 & PIER NO. 5

*Spacing varies over Splice ℄'s, see Detail on Dwg. No. S-42 & S-43.



GIRDER ELEVATION

SHEAR STUDS ARE INCLUDED IN THIS CONTRACT. OTHER WORK SHOWN IS FOR INFORMATION ONLY.

NAVIGATION SPANS 3, 4 & 5-GIRDER ELEVATION
CH-15 OVER ILLINOIS RIVER
F.A.U. RTE. 6265 (CH-15) SECTION 10
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAGN, ILLINOIS CHICAGO, ILLINOIS

DRAWING NUMBER

DESIGNED BY: M.M. DATE: 2-15-97
DRAWN BY: M.E.V.
CHECKED BY: S.C.J.
APPROVED BY: S.C.J.
ACTIVITY: DETAILS

S-33

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
DRAWN - TG	REVISED -	
PLOT SCALE = 100,000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

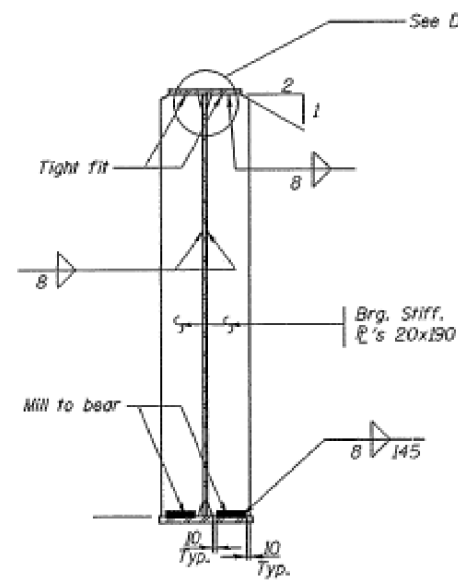
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION DETAILS FOR
STRUCTURE NO. 050-0219

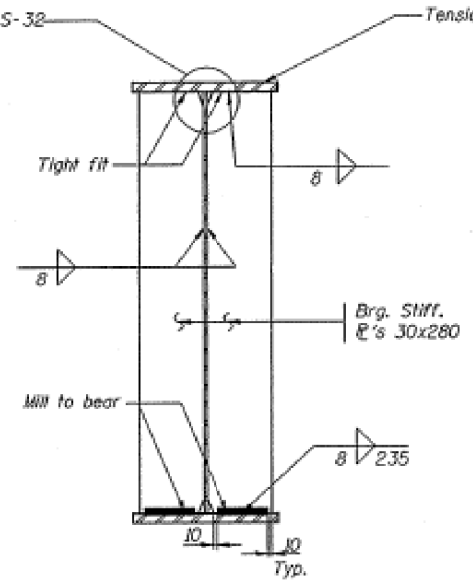
SCALE: _____ SHEET 2 OF 3 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111)BR-BR-1(1B-1)]BP	GRUNDY, LASALLE	55	40
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

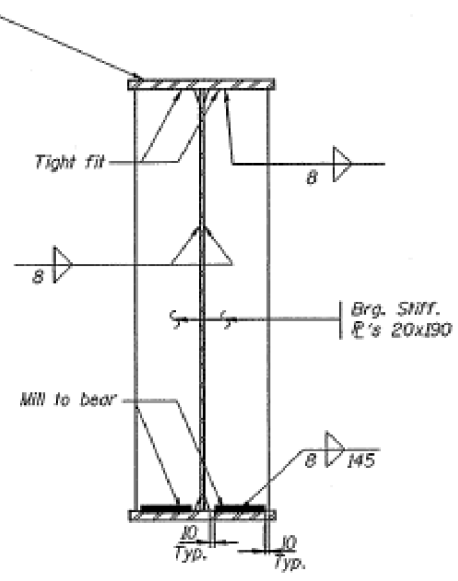
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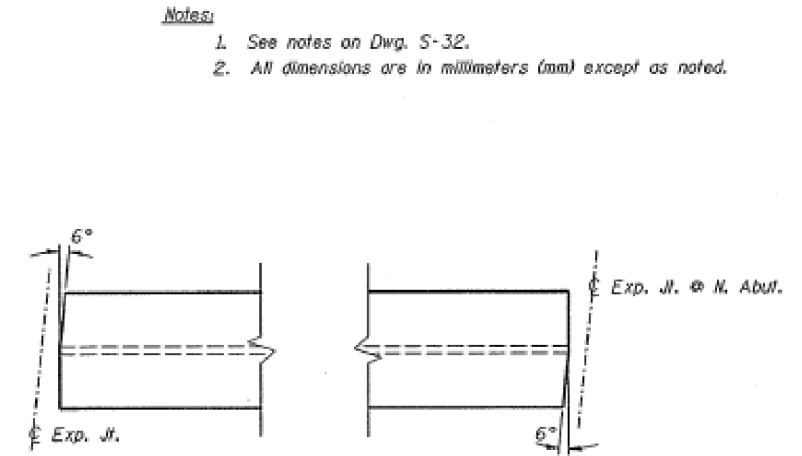
**BEARING STIFFENERS
OVER PIER NO. 5 & NO. ABUTMENT**



**BEARING STIFFENERS
OVER PIER NO. 6 & 8**

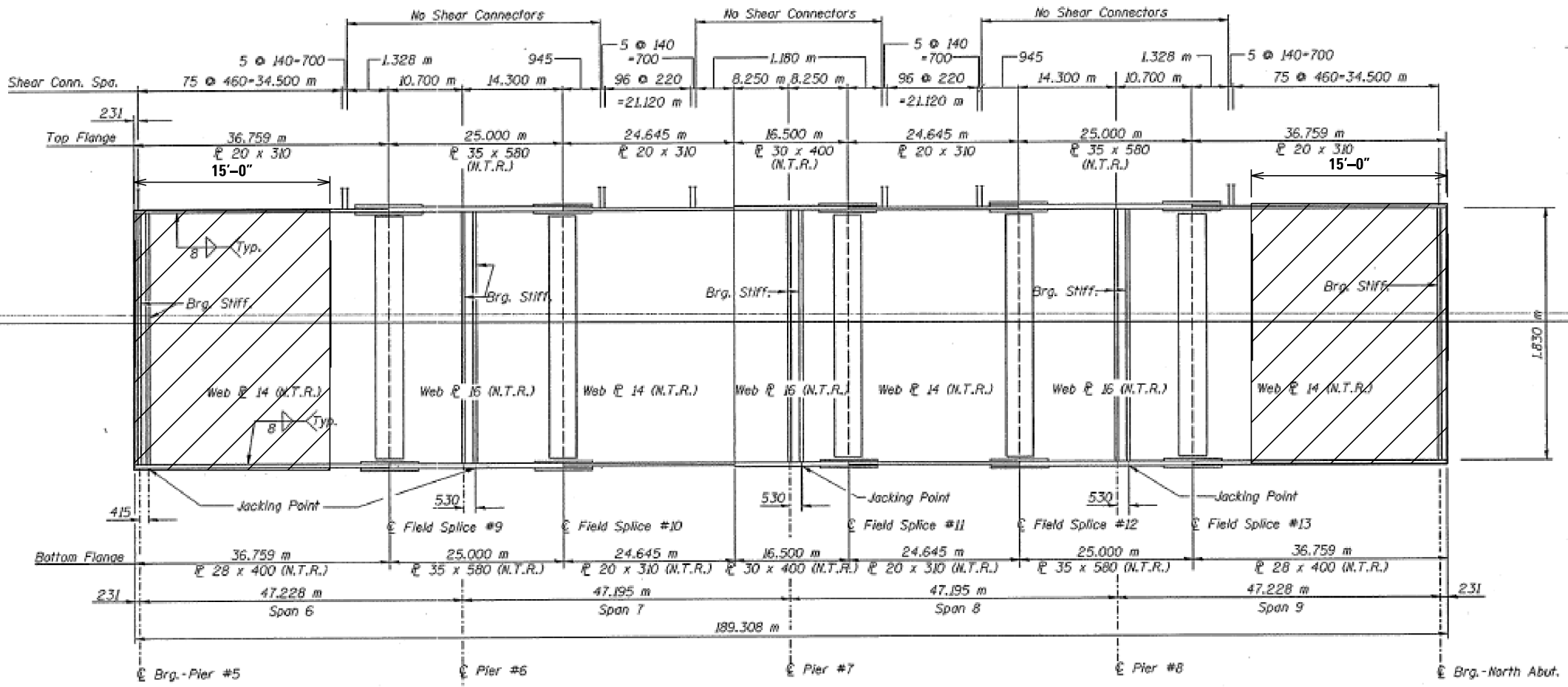


**BEARING STIFFENERS
OVER PIER NO. 7**



**COPING DETAIL AT TOP FLANGES
OF PLATE GIRDERS AT PIER NO. 5 & N. ABUT.**

Notes:
1. See notes on Dwg. S-32.
2. All dimensions are in millimeters (mm) except as noted.



**SHEAR STUDS ARE INCLUDED IN
THIS CONTRACT. OTHER WORK
SHOWN IS FOR INFORMATION ONLY.**

GIRDER ELEVATION

FOR INFORMATION ONLY

**NORTH APPROACH SPANS 6, 7, 8 & 9 GIRDER ELEVATION
CH-15 OVER ILLINOIS RIVER**

F.A.U. RTE. 6265 (CH-15) SECTION 1D
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI **CLARK DIETZ, INC.**
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTED: DIMENSIONS SHOWN ARE NOT TO BE EXCEEDED BY SPACING AND PORTION OF SIZE CHANGE.

DESIGNED BY: M.M. HOSLEY JR.
DRAWN BY: M.E.V. WITH 2-15-97
CHECKED BY: M.J.P.
APPROVED BY: S.C.J.

DRIVING NUMBER
S-34

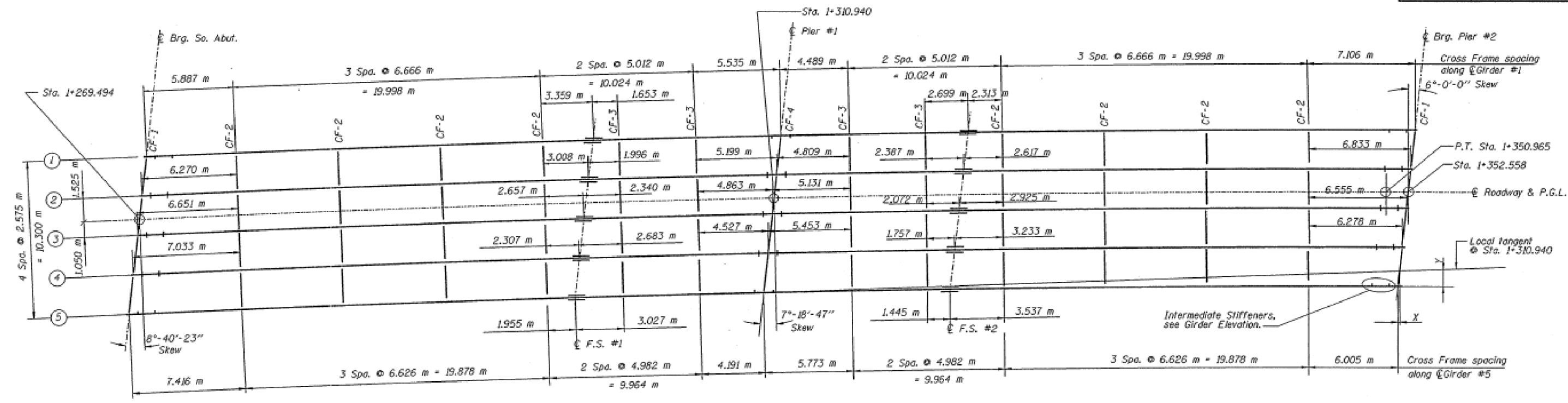
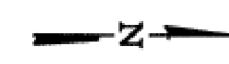
USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GIRDER ELEVATION DETAILS FOR
STRUCTURE NO. 050-0219**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	41
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
SCALE: _____		SHEET 3 OF 3 SHEETS	STA. _____ TO STA. _____	

MODEL: Default
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SOUTH APPROACH FRAMING PLAN

LAYOUT DIMENSIONS

INTERIOR GIRDER MOMENT TABLE				
	0.4 Sp. 1	Pier #1	0.6 Sp. 2	
I_s (10^6 mm^4)	15,074	38,941	15,074	
I_c (n) (10^6 mm^4)	34,141	---	34,141	
I_c (sn) (10^6 mm^4)	25,072	---	25,072	
S_s (10^3 mm^3)	18,691	44,478	18,691	
S_c (n) (10^3 mm^3)	25,221	---	25,221	
S_c (sn) (10^3 mm^3)	22,912	---	22,912	
S_{bl} (10^3 mm^3)	530	2,280	530	
M (kN·m)	15,383	24,497	15,383	(1)
$M\phi$ (kN·m)	1,515	6,170	1,542	
$s\phi$ (kN/m)	6,202	---	6,202	
$M_s\phi$ (kN·m)	655	---	675	
M_t (kN·m)	1,818	2,154	1,824	
M (Imp) (kN·m)	348	413	350	
$S_{c(imp)} + M$ (kN·m)	3,610	4,278	3,623	
M_a (kN·m)	7,527	13,582	7,592	
M_{bi} (kN·m)	0	0	0	
$f_s\phi$ non-comp (MPa)	81	139	82	
$f_s\phi$ (comp) (MPa)	29	---	29	
$f_s f_w$ (Imp) (MPa)	143	96	144	
f_w (MPa)	0	0	0	
$f_s + f_w$ (Overload) (MPa)	253	235	255	
T_s (Total) (MPa)	329	305	332	(2)
f_s (Total) + f_w (MPa)	329	305	332	
VR (kN)	325	---	325	
F_b (MPa)	345	321	345	

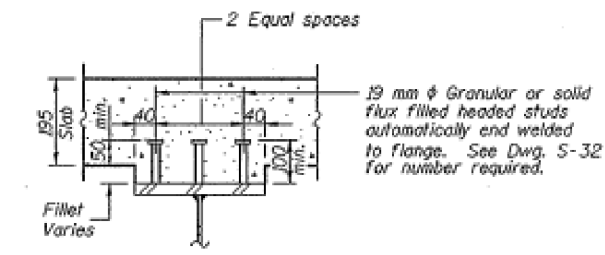
(1) Average Dead Load per each span.
 (2) Non-Compact Section

INTERIOR GIRDER REACTION TABLE			
	S. Abut.	Pier #1	Pier #2
$R\phi$ (kN)	318	1,233	321
R_t (kN)	245	465	245
Imp. (kN)	47	89	47
R (Total) (kN)	610	1,787	613

GIRDER	RADIUS (m)	SOUTH ABUTMENT		SPLICE #1		PIER #1		SPLICE #2		PIER #2	
		X	Y	X	Y	X	Y	X	Y	X	Y
#1	1,750.475	61	478	5	39	0	0	6	46	65	506
#2	1,747.900	62	487	5	41	0	0	6	44	64	499
#3	1,745.325	64	495	6	44	0	0	5	42	63	492
#4	1,742.750	65	504	6	46	0	0	5	40	62	485
#5	1,740.175	66	513	6	49	0	0	5	37	61	479

GIRDER SPACING ALONG SKEW			
GIRDER - GIRDER	So. Abut.	Pier #1	Pier #2
GIRDER #1 - GIRDER #2	2,605	2,596	2,589
GIRDER #2 - GIRDER #3	2,605	2,596	2,589
GIRDER #3 - GIRDER #4	2,605	2,596	2,589
GIRDER #4 - GIRDER #5	2,605	2,596	2,589

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 $I_{c(n)}$ and $S_{c(n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 $I_{c(sn)}$ and $S_{c(sn)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)
 S_{bl} is the section modulus for one flange for lateral flange bending.
 VR is the maximum Live Load + Impact shear range in span. (for composite area).
 $M\phi$ = Moment due to dead loads on non-composite section.
 $M_s\phi$ = Moment due to dead loads on composite section.
 M_t = Moment due to live load on non-composite or composite section.
 M (Imp) = Moment due to live load impact on non-composite or composite section.
 M_a (Applied Moment) = $1.3[M\phi + M_s\phi + 5_3(M_t + M_{imp})]$.
 $(f_s + f_w)$ (Overload) is the sum of the stresses due to $M\phi + M_s\phi + 5_3(M_t + M_{imp}) + (M_{bi} / 1.50)$.
 f_s (Total) is the sum of the stresses due to $1.3[M\phi + M_s\phi + 5_3(M_t + M_{imp})]$.
 M_{bi} is the lateral bending moment for flange plate (Factored)
 f_w is the calculated normal stresses at the edge of flange due to lateral bending (Factored).
 F_b - maximum allowable stress F_{bu} or F_{bv} computed according to AASHTO [Guide Specification for Horizontally Curved Highway Bridges Section 2.12 (B) and 2.16].



TYP. SHEAR CONNECTOR DETAIL

- Notes:
- Information on this drawing is based upon horizontal curve data rounded to the nearest 5 mm.
 - All interior diaphragms are radial.
 - All dimensions are in millimeters (mm) except as noted.

Shear studs are included in this contract. Other work shown is For Information Only.

FOR INFORMATION ONLY

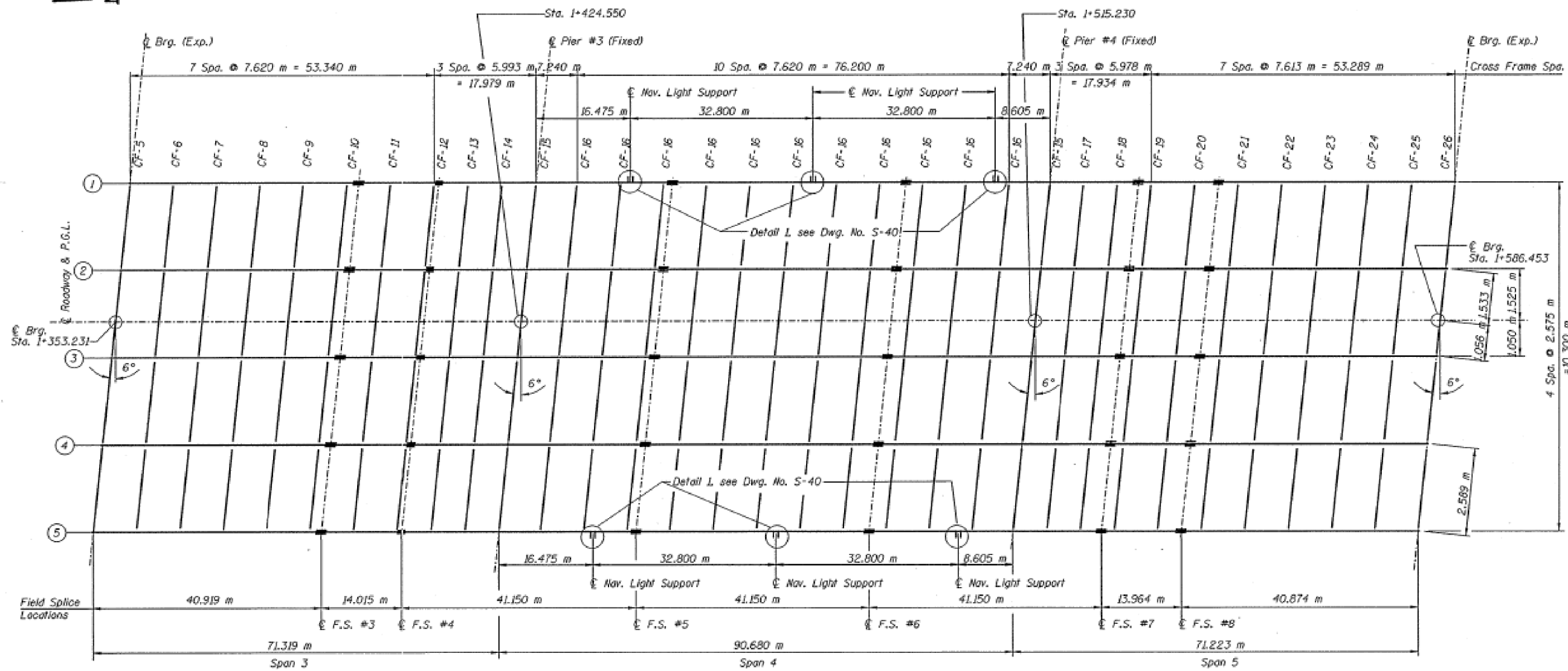
SOUTH APPROACH FRAMING PLAN - SPANS 1 & 2
 CR-15 OVER ILLINOIS RIVER
 F.A.N. RTE. 6265 (CH-15) SECTION 10
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTE: DIMENSIONS SHOWN IN THIS DRAWING ARE TO BE OBSERVED BY HOLDING THE POSITION OF THIS DRAWING.

DESIGNED BY: M.H.M. PROJECT NO.:
 DRAWN BY: M.J.F. DATE: 2-15-22
 CHECKED BY: M.J.F.
 APPROVED BY: S.C.J.
 ACTIVITY: DETAILS

DRAWING NUMBER
 S-29



NAVIGATION SPAN FRAMING PLAN

	0.4 Sp. 3	Pier #3	0.5 Sp. 4	Pier #4	0.6 Sp. 5
I_s (10^6 mm^4)	48,836	173,565	65,194	173,565	53,890
I_c (n) (10^6 mm^4)	91,582	---	121,231	---	100,364
I_c (sn) (10^6 mm^4)	67,748	---	90,240	---	74,364
S_s (10^3 mm^3)	54,964	128,091	53,384	128,091	57,899
S_c (n) (10^3 mm^3)	67,033	---	67,795	---	70,658
S_c (sn) (10^3 mm^3)	61,589	---	61,189	---	64,855
M (kN-m)	19,083	25,697	19,906	25,751	19,192
M_R (kN-m)	5,328	20,515	4,763	20,232	5,462
s_R (kN-m)	6,202	---	6,202	---	6,202
M_{sR} (kN-m)	1,900	---	1,699	---	1,926
M_L (kN-m)	4,417	6,826	5,223	6,794	4,498
M (Imp) (kN-m)	615	879	618	875	626
M_0 (kN-m)	8,387	12,842	9,735	12,782	8,540
M_a (kN-m)	20,300	43,365	21,056	42,918	20,706
f_s non-comp (MPa)	97	160	89	158	94
f_s comp (MPa)	31	---	28	---	30
f_s (1/3 Imp) (MPa)	125	100	144	100	121
f_s (Overload) (MPa)	253	260	261	258	245
f_s (Total) (MPa)	329	338	339	335	319
VR (kN)	503	---	569	---	503

	Pier #2	Pier #3	Pier #4	Pier #5
R_R (kN)	614	2,376	2,369	621
R_L (kN)	315	790	790	318
Imp. (kN)	44	102	102	44
R (Total) (kN)	973	3,268	3,261	983

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_{cn} and S_{cn} are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 I_{csn} and S_{csn} are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 M_0 (Applied Moment) = $1.3(M_R + M_{sR} + 5_3(M_L + M_{Imp}))$.
 M_R = Moment due to dead loads on non-composite section.
 M_{sR} = Moment due to dead loads on composite section.
 M_L = Moment due to live load on non-composite or composite section.
 M (Imp) = Moment due to live load impact on non-composite or composite section.
 f_s (Overload) is the sum of the stresses due to $M_R + M_{sR} + 5_3(M_L + M_{Imp})$.
 f_s (Total) (Non-compact section) is the sum of the stresses due to $1.3(M_R + M_{sR} + 5_3(M_L + M_{Imp}))$.

(1) Average g on span.
 (2) Non-Compact Section

FOR INFORMATION ONLY

THIS DRAWING FOR INFORMATION ONLY.

NAVIGATION SPANS FRAMING PLAN-SPANS 3, 4, & 5
 CH-15 OVER ILLINOIS RIVER
 F.A.U. RTE. 6285 (CH-15) SECTION 10
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

THIS DRAWING IS NOT TO BE REPRODUCED BY ANY MEANS OR BY ANY NAME WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
 DRAWING NUMBER
 S-30

All dimensions are in millimeters (mm) except as noted.

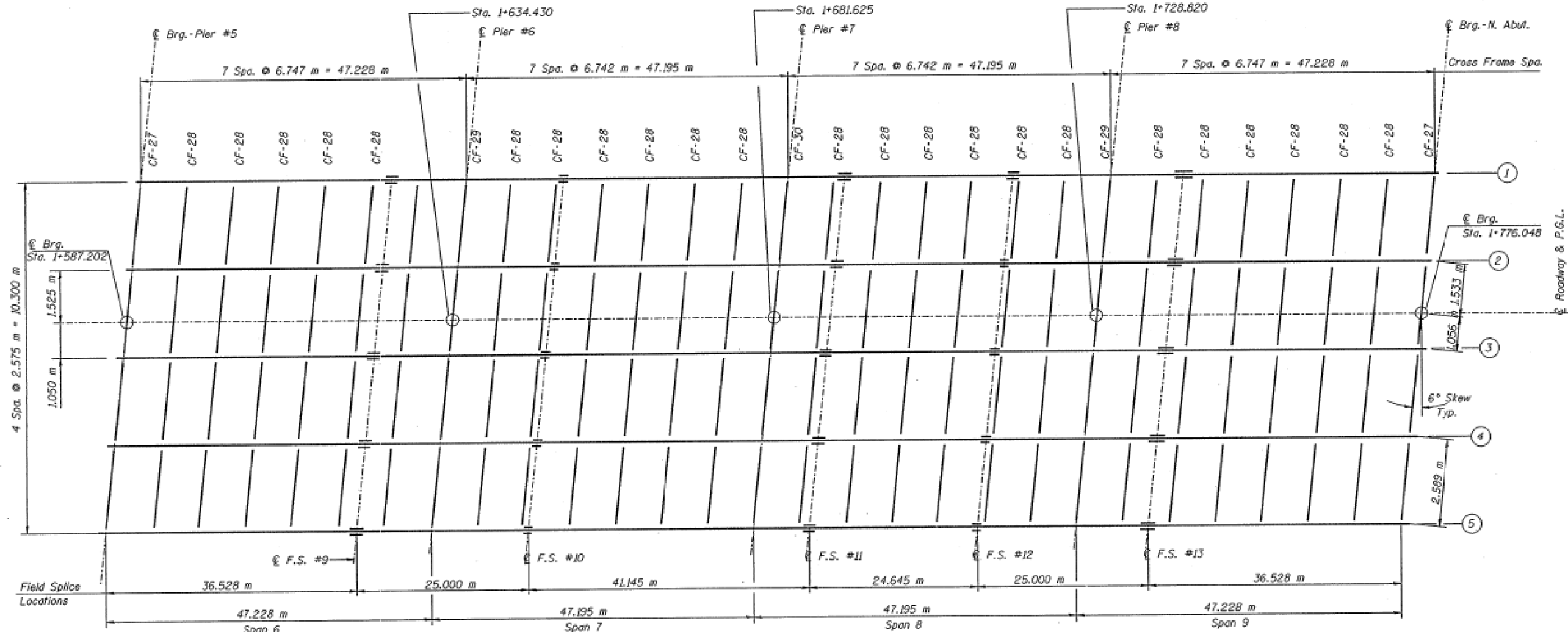
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PLOT SCALE = 100,0000' / in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN DETAILS FOR
 STRUCTURE NO. 050-0219

SCALE: _____ SHEET 2 OF 3 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111)BR, BR-1](1B-1)BP	GRUNDY, LASALLE	55	43
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS			FED. AID PROJECT	



NORTH APPROACH FRAMING PLAN

	0.4 Sp. 6 & 0.6 Sp. 9 Pier 6 & 8	0.5 Sp. 7 & 8	Pier 7	
I_s (10^6 mm^4)	21,615	43,481	17,760	28,930
I_c (n) (10^6 mm^4)	47,912	---	37,908	---
I_c (sn) (10^6 mm^4)	34,626	---	28,038	---
S_x (10^3 mm^3)	25,903	45,769	18,996	30,614
S_c (n) (10^3 mm^3)	34,693	---	25,975	---
S_c (sn) (10^3 mm^3)	31,329	---	23,307	---
M (kN-m)	16,710	22,964	16,814	23,016
$M \bar{L}$ (kN-m)	2,468	6,589	909	3,525
$s \bar{L}$ (kN-m)	6,202	---	6,202	---
$M s \bar{L}$ (kN-m)	1,009	---	442	---
$M \bar{L}$ (kN-m)	2,211	2,497	1,756	1,989
M (Imp) (kN-m)	395	446	314	355
$S_x (M \bar{L} + M \text{Imp})$ (kN-m)	4,343	4,905	3,450	3,907
$M \bar{L}$ (kN-m)	10,192	14,941	6,242	9,662
$f_s \bar{L}$ non-comp (MPa)	96	144	48	115
$f_s \bar{L}$ comp (MPa)	32	---	19	---
$f_s \bar{L}_s$ (k + Imp) (MPa)	125	107	133	128
f_s (Overload) (MPa)	253	251	200	243
f_s (Total) (MPa)	329	326	260	316
VR (kN)	425	---	451	---

(1) Average Dead Load per each span.
 (2) Non-Compact Section

	Pier #5	Pier #6 & #8	Pier #7	No. Abut.
$R \bar{L}$ (kN)	402	1,289	956	402
$R \bar{L}$ (kN)	248	504	465	248
Imp. (kN)	44	90	83	44
R (Total) (kN)	694	1,883	1,504	694

I_s and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 $I_{c(n)}$ and $S_{c(n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 $I_{c(sn)}$ and $S_{c(sn)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (See AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 $M \bar{L}$ = Moment due to dead loads on non-composite section.
 $M s \bar{L}$ = Moment due to dead loads on composite section.
 $M \bar{L}$ = Moment due to dead loads on non-composite or composite section.
 M (Imp) = Moment due to live load impact on non-composite or composite section.
 $M \bar{L}$ (Applied Moment) = $1.3[M \bar{L} + M s \bar{L} + S_x(M \bar{L} + M \text{Imp})]$.
 f_s (overload) is the sum of the stresses due to $M \bar{L} + M s \bar{L} + S_x(M \bar{L} + M \text{Imp})$.
 f_s (Total) Non-compact section is the sum of the stresses due to $1.3[M \bar{L} + M s \bar{L} + S_x(M \bar{L} + M \text{Imp})]$.

THIS DRAWING FOR INFORMATION ONLY

NORTH APPROACH FRAMING PLAN-SPANS 6, 7, 8 & 9
 CH-15 OVER ILLINOIS RIVER
 F.A.V. RTE. 6265 (CH-15) SECTION 10
 LA SALLE COUNTY STA. 1-582.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTE: DIMENSIONAL DATA IS NOT TO BE DERIVED BY SCALE BUT FROM THIS DRAWING.
 DRAWING NUMBER S-31

FOR INFORMATION ONLY

All dimensions are in millimeters (mm) except as noted.

USER NAME = grunstad	DESIGNED - TG	REVISED -
DRAWN - TG	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN DETAILS FOR
 STRUCTURE NO. 050-0219

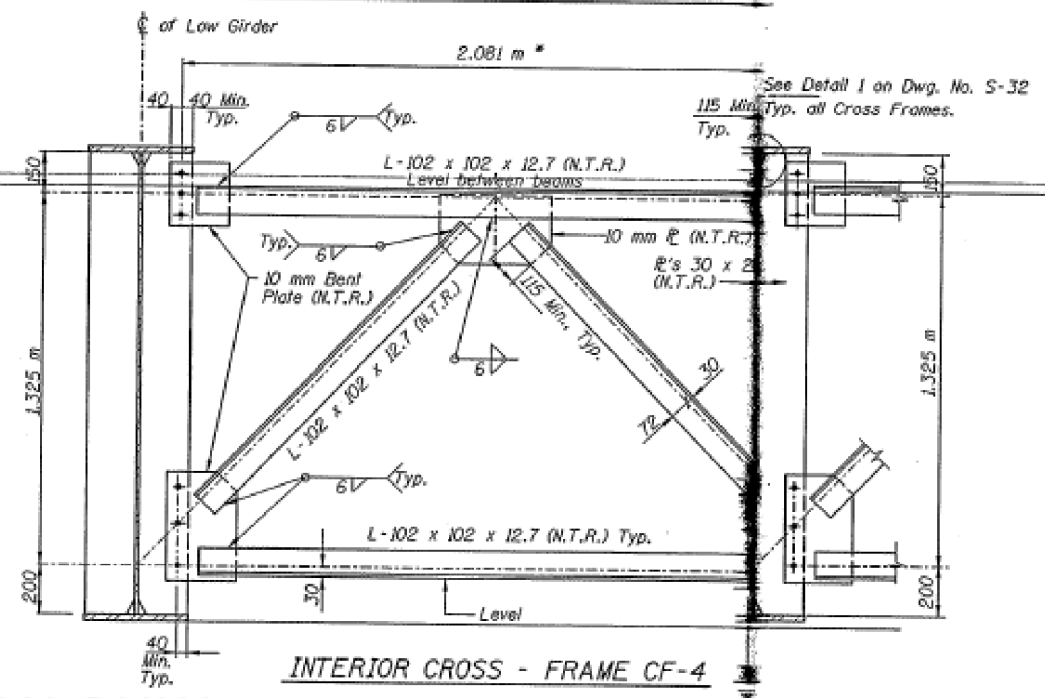
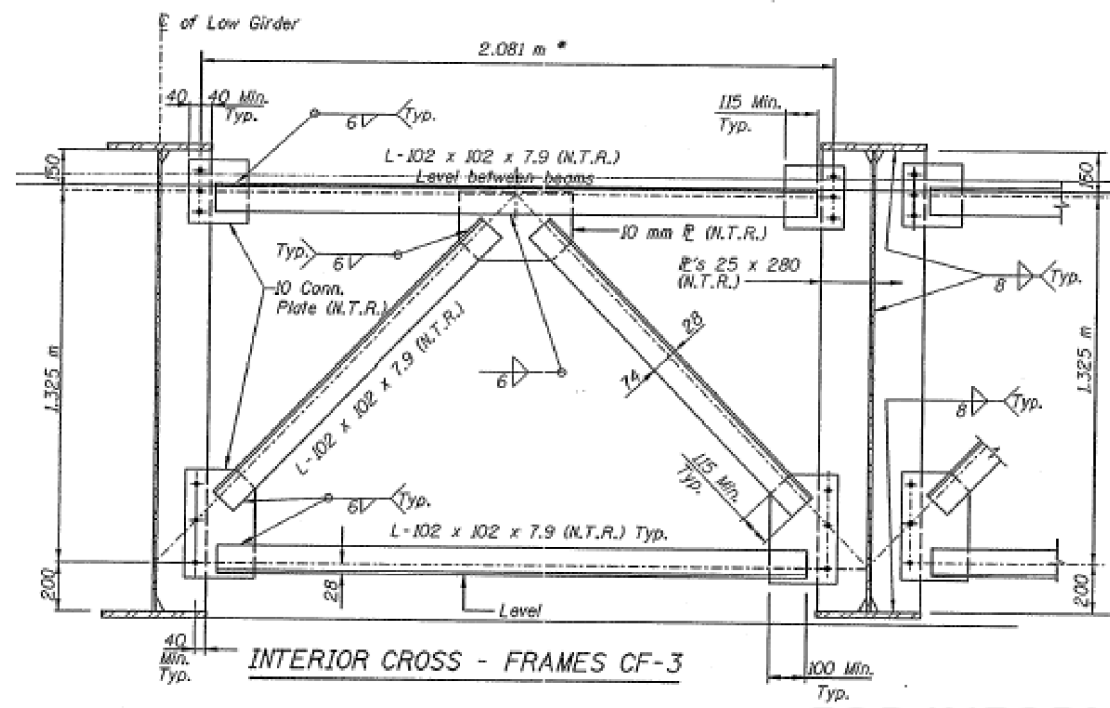
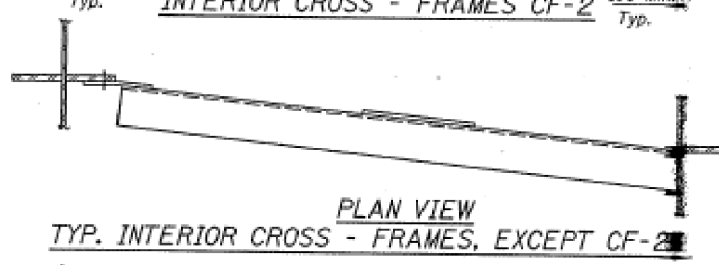
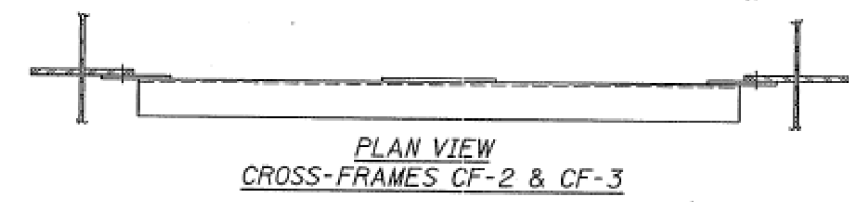
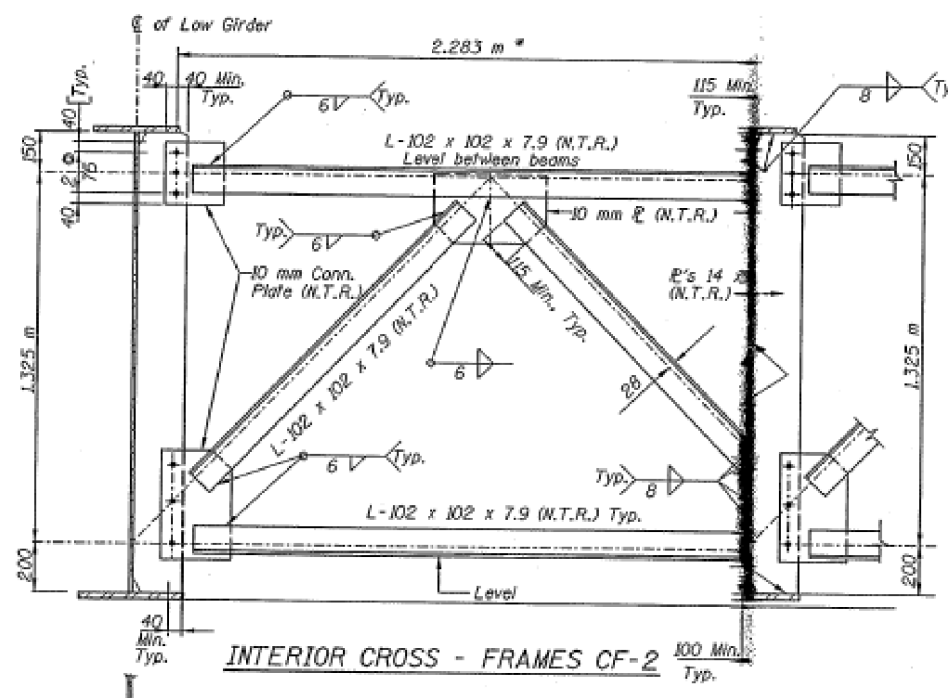
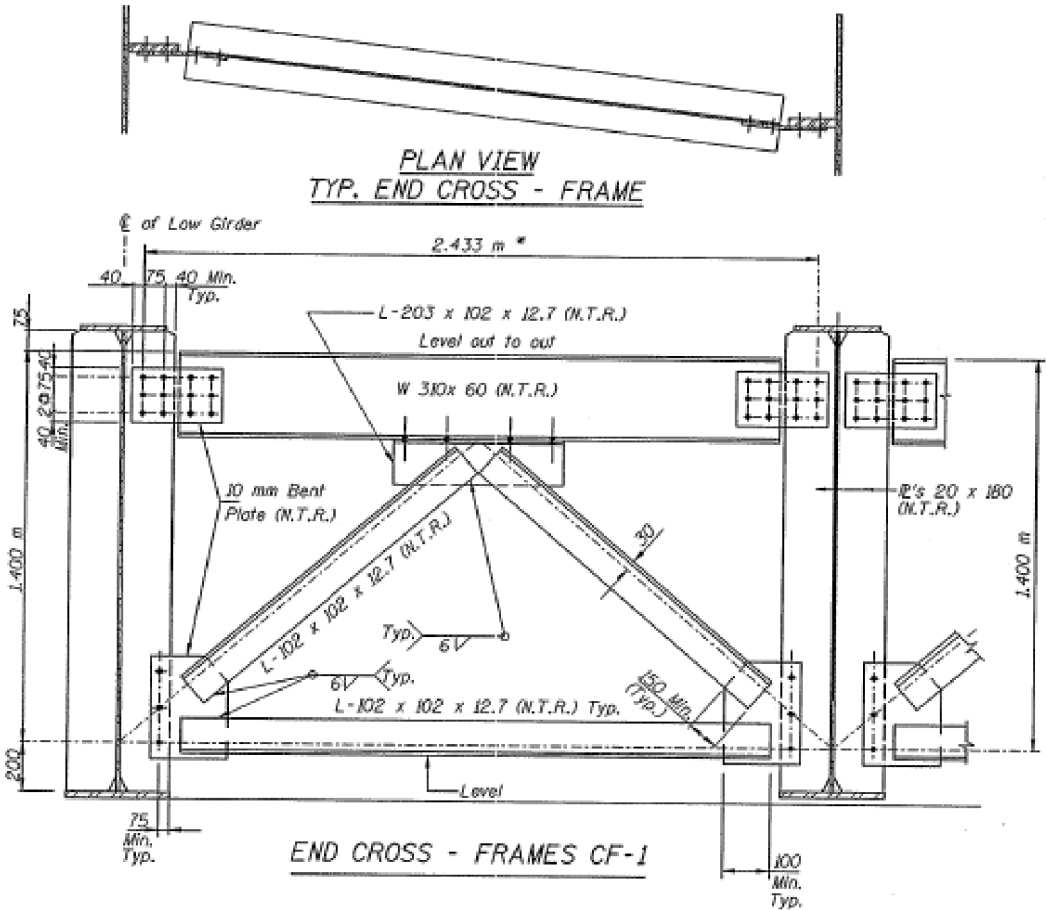
SCALE: _____ SHEET 3 OF 3 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111)BR-BR-1(1B-1)]BP	GRUNDY, LASALLE	55	44
	*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89	
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAILLING	10	LA SALLE	100	62
STA.	TO STA.			
FED. ROAD DIST. NO. 7	RAILROAD	PROJECT		

* At right angles to ϕ girder.

- NOTES:**
1. Fasteners for cross frames shall be high strength M22 bolts, 28 mm dia. holes, unless otherwise noted.
 2. Two hardened washers are required over all oversized holes.
 3. All dimensions are in millimeters (mm) except as noted.



THIS DRAWING FOR INFORMATION ONLY.

CROSS FRAME DETAILS-SPANS 1 & 2
CH-15 OVER ILLINOIS RIVER
F.A.U. RTE. 6265 (CH-15) SECTION 10
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DESIGNED BY: H.M. PROJECT NO.:
DRAWN BY: M.F.M. DATE: 2-15-97
CHECKED BY: M.J.F.
APPROVED BY: S.C.J.
ACTIVITY: DETAILS

DRAWING NUMBER: S-38

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

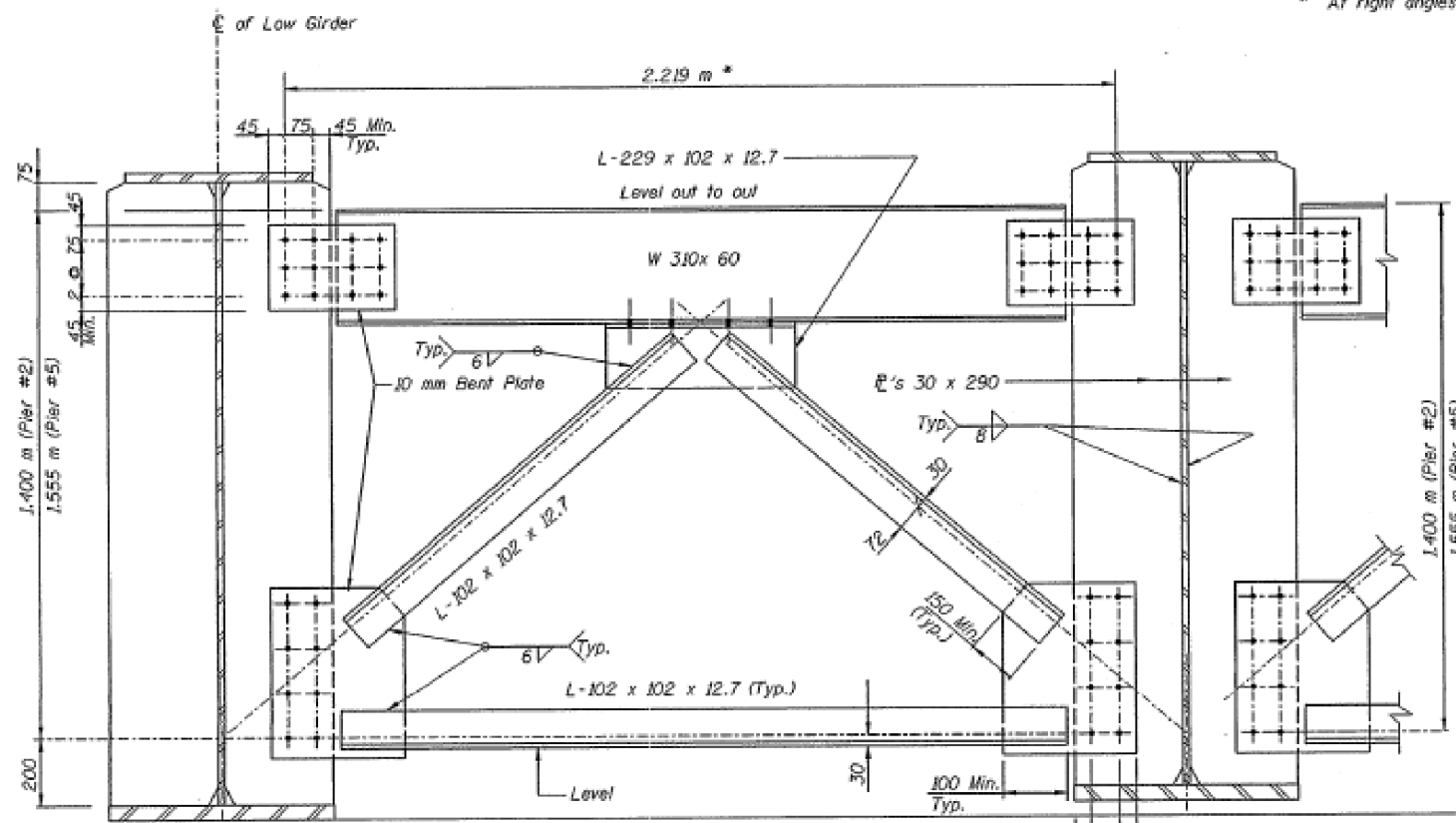
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS FRAME DETAILS FOR
STRUCTURE NO. 050-0219

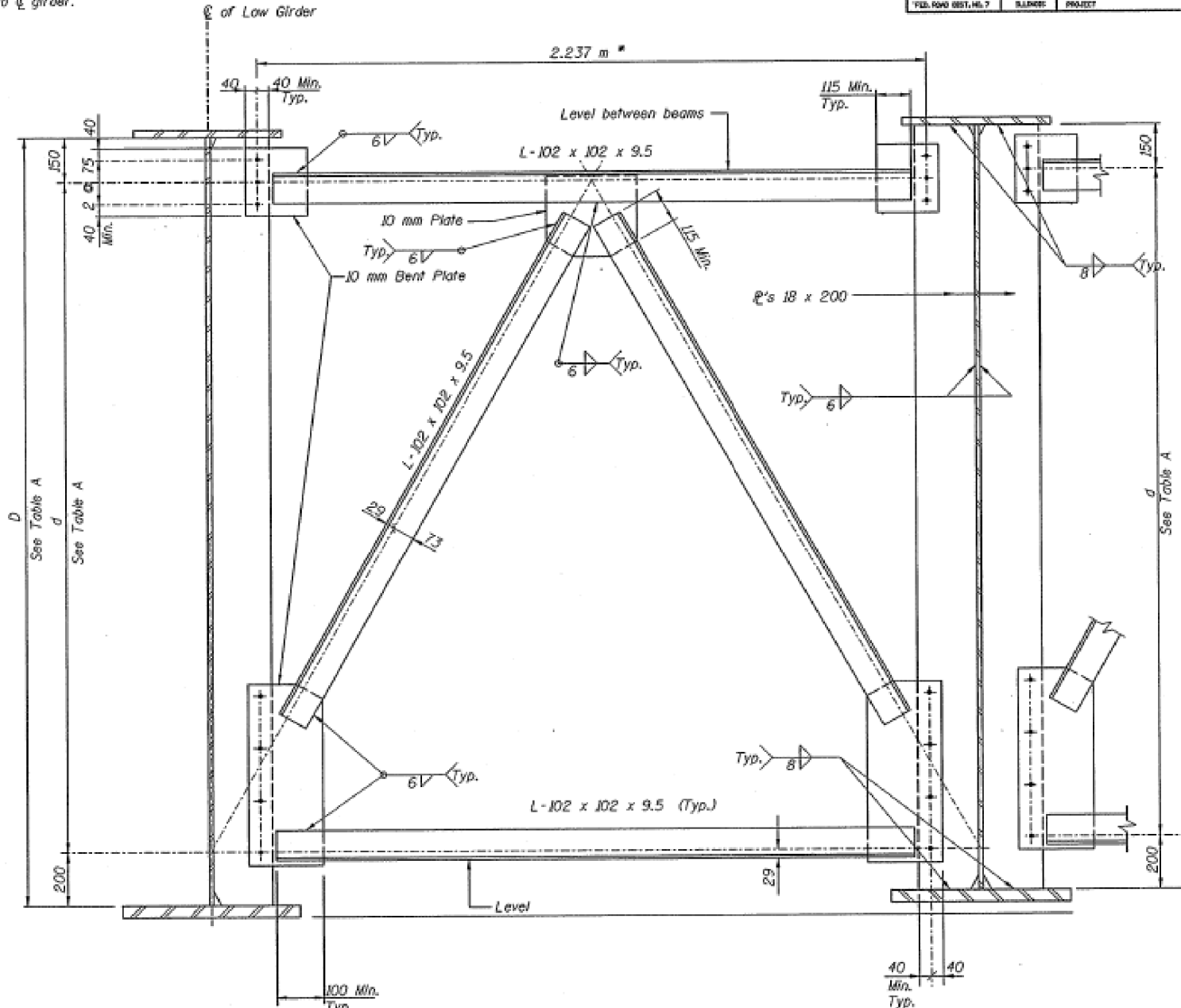
SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	45
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

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END CROSS - FRAMES CF-5 & 26
 For End Cross Frames CF-5 & CF-26, fasteners shall be M24 high strength bolts, 30 mm dia. holes.



CROSS FRAMES - FRAMES CF-6 - 14 & 16 - 25

TABLE A

CF-NO.	D	d
CF-6	1.767	1.417
CF-7	1.867	1.517
CF-8	1.967	1.617
CF-9	2.067	1.717
CF-10	2.167	1.817
CF-11	2.267	1.917
CF-12	2.367	2.017
CF-13	2.446	2.096
CF-14	2.524	2.174
CF-15	2.590	2.240
CF-16	2.590	2.240
CF-17	2.536	2.186
CF-18	2.470	2.120
CF-19	2.405	2.055
CF-20	2.322	1.972
CF-21	2.239	1.889
CF-22	2.156	1.806
CF-23	2.073	1.723
CF-24	1.990	1.640
CF-25	1.907	1.557

THIS DRAWING FOR INFORMATION ONLY.

NAVIGATION SPAN CROSS FRAMES-SPANS 3, 4 & 5
 CN-15 OVER ILLINOIS RIVER
 F.A.O. RTE. 6265 (CN-15) SECTION 1D
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NON-CONSTRUCTION DATA IS NOT TO BE DETACHED BY SCALING ANY PORTION OF THIS DRAWING.
 DESIGNED BY: M.H. PROJECT NO.:
 DRAWN BY: M.E.W. DATE: 2-16-97
 CHECKED BY: M.J.P.
 APPROVED BY: S.C.J.
 ACTIVITY: BRIDGE

DRAWING NUMBER
S-39

FOR INFORMATION ONLY

All dimensions are in millimeters (mm) unless noted otherwise.

USER NAME = grunstad	DESIGNED - TG	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

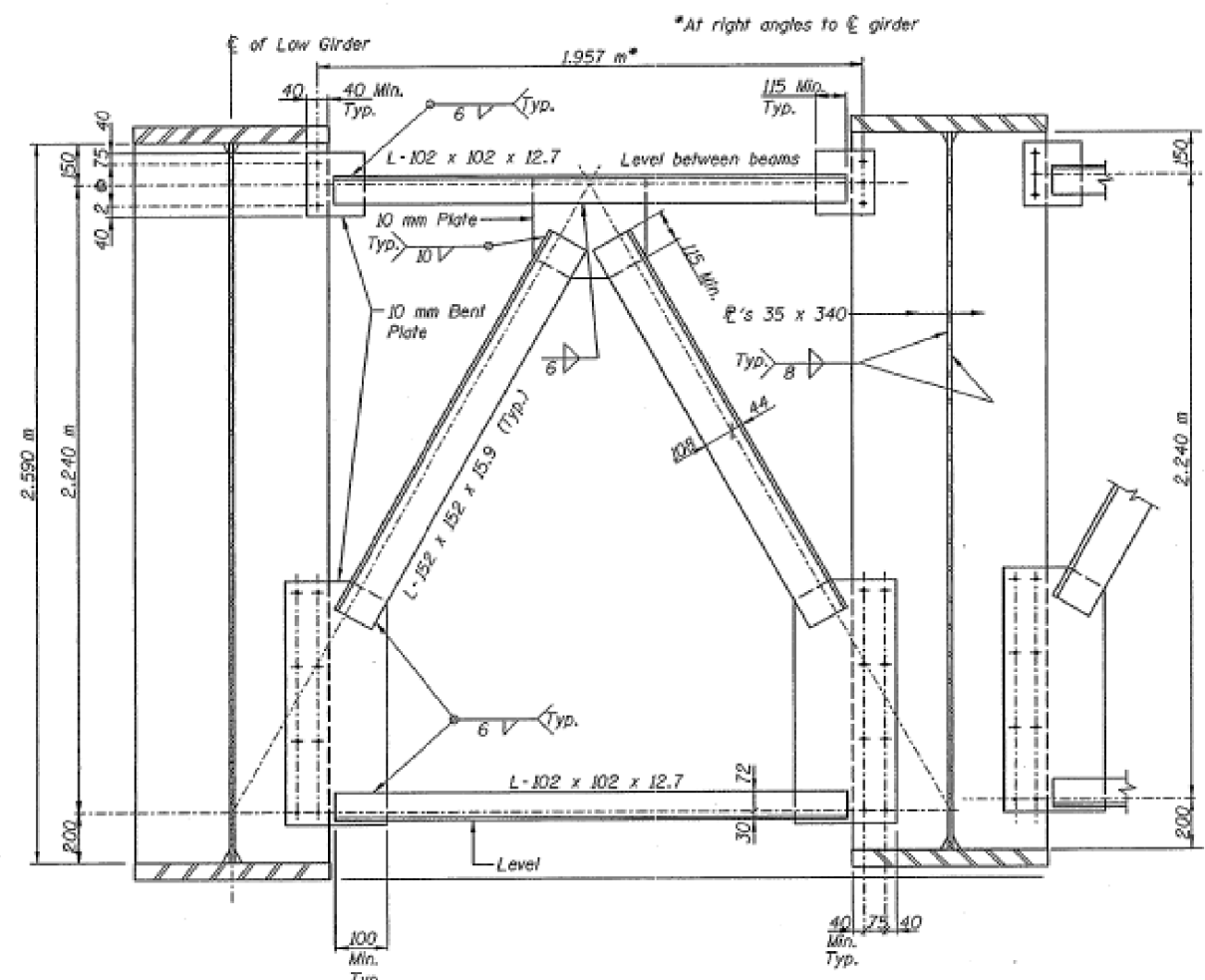
CROSS FRAME DETAILS FOR
 STRUCTURE NO. 050-0219

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

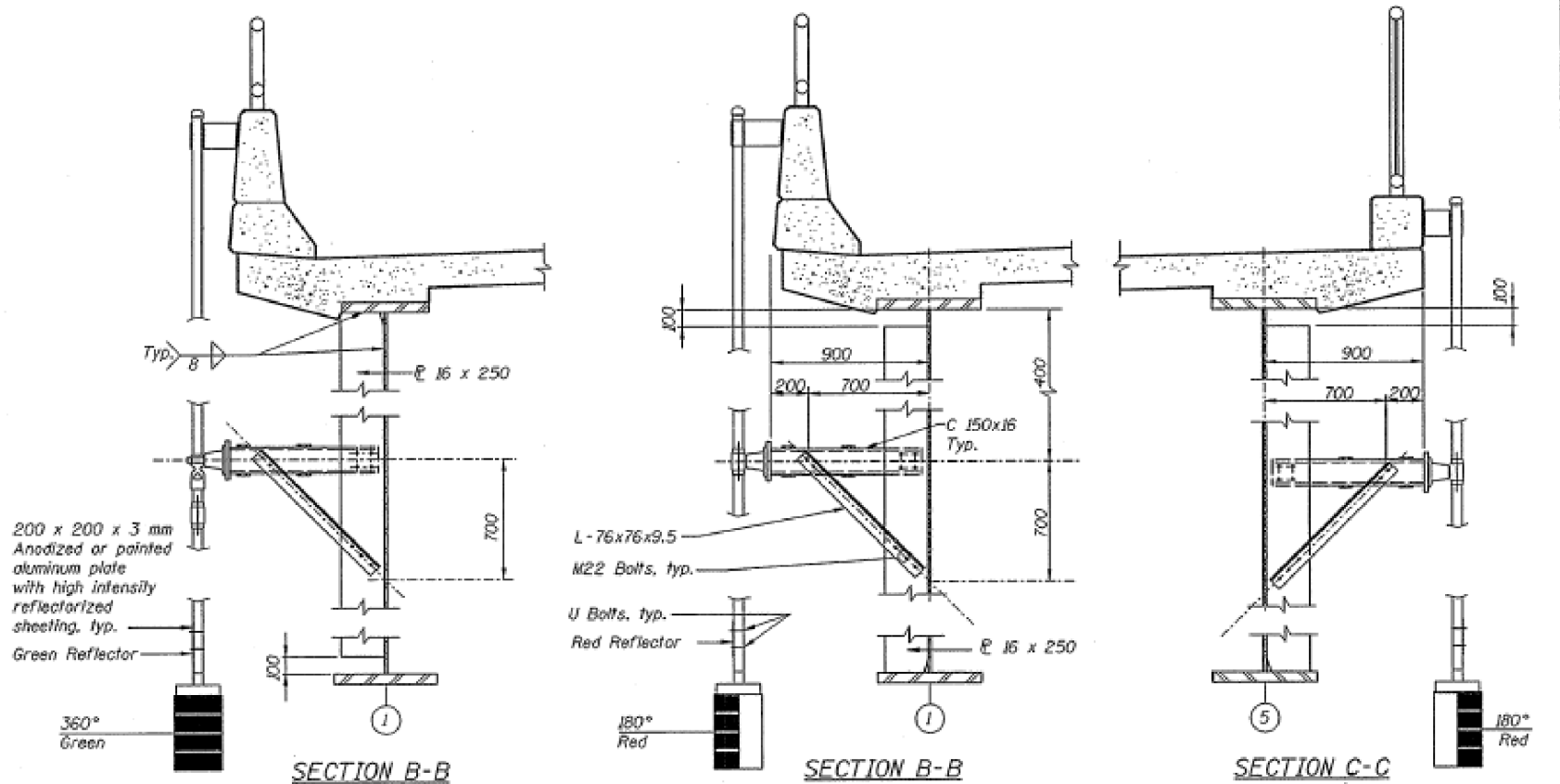
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111BR, BR-1(1B-1)BP	GRUNDY LASALLE	55	46	
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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DATE	SECTION	COUNTY	SHEET	NO.
FAS 685	10	LA SALLE	100	63
STA.		TO STA.		
FEL 326 (IL 47) & FAS 268A (CH 15)		PROJECT		



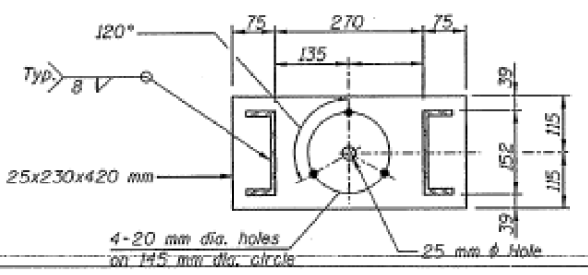
CROSS FRAME - FRAME CF-15
(Over Piers #3 & #4)



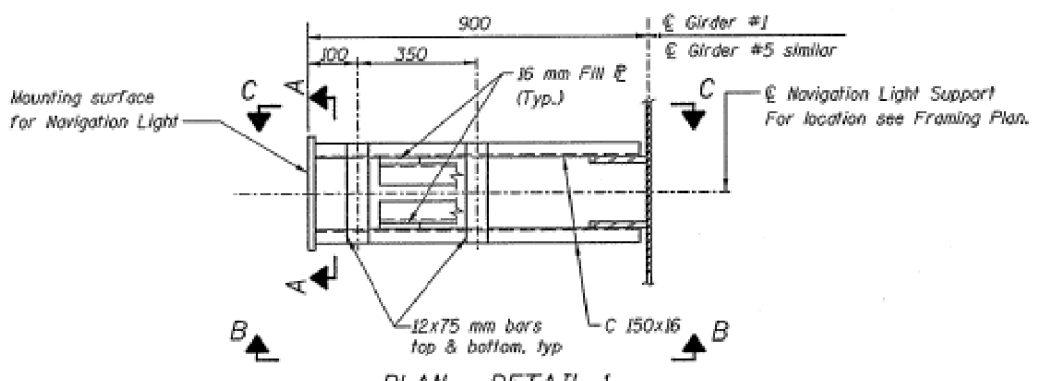
SECTION B-B

SECTION B-B

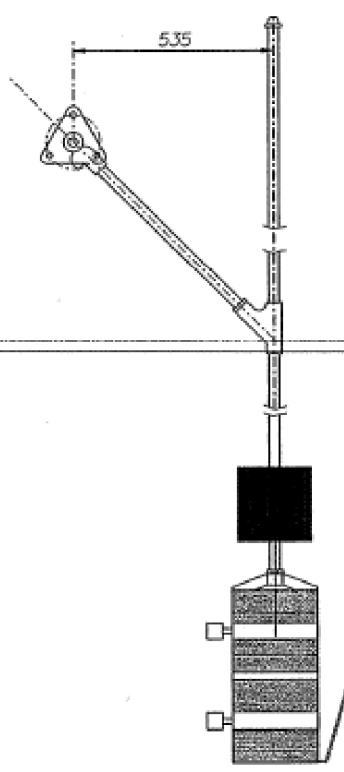
SECTION C-C



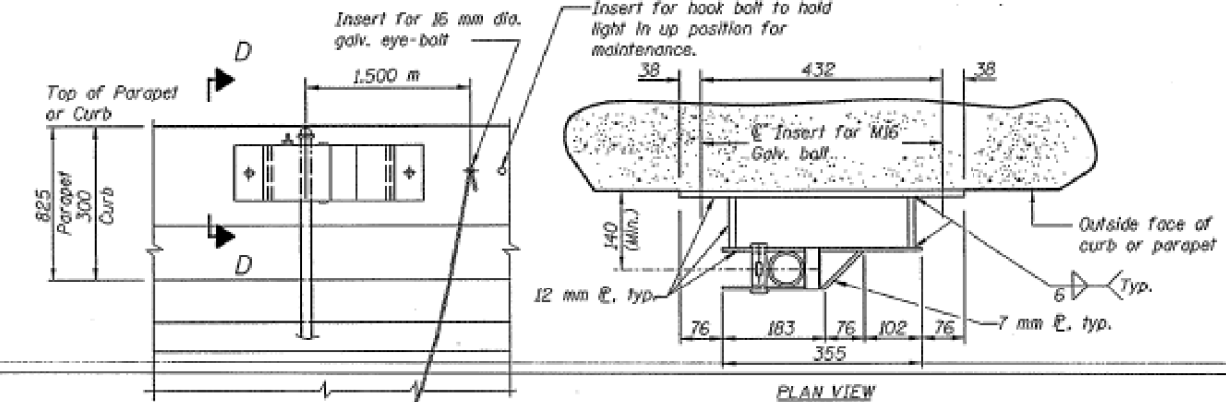
SECTION A-A



PLAN - DETAIL 1
See Framing Plan for locations.



NAVIGATIONAL LIGHTING DETAIL



LOCKING PLATE DETAILS

ELEVATION

Note: The chain length shall have maximum slack without hanging below the light.

The navigation lights and associated hardware have been furnished by others. Navigation lights have been mounted to girders and temporarily wired by others. Work in this contract includes installing all items mounted to concrete and final wiring of the navigation lights. All work is included in the unit prices bid for the associated electrical work. See Roadway Plans for additional information. All other work shown on this drawing is for information only.

SECTION D-D

All dimensions are in millimeters (mm) except as noted.

NAVIGATION SPAN CROSS FRAMES-SPARS 3, 4 & 5
CH-15 OVER ILLINOIS RIVER
F.A.U. RTE. 6265 (CH-15) SECTION 10
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

METEOROLOGICAL DATA IS NOT TO BE DEPEND ON BEING BY HOLDING ANY PORTION OF THIS DRAWING.

DESIGNED BY: M.M.	PROJECT NO.
DRAWN BY: M.E.W.	DATE: 2-15-17
CHECKED BY: M.J.P.	
APPROVED BY: S.C.J.	
ACTIVITY	DETAILS

S-40

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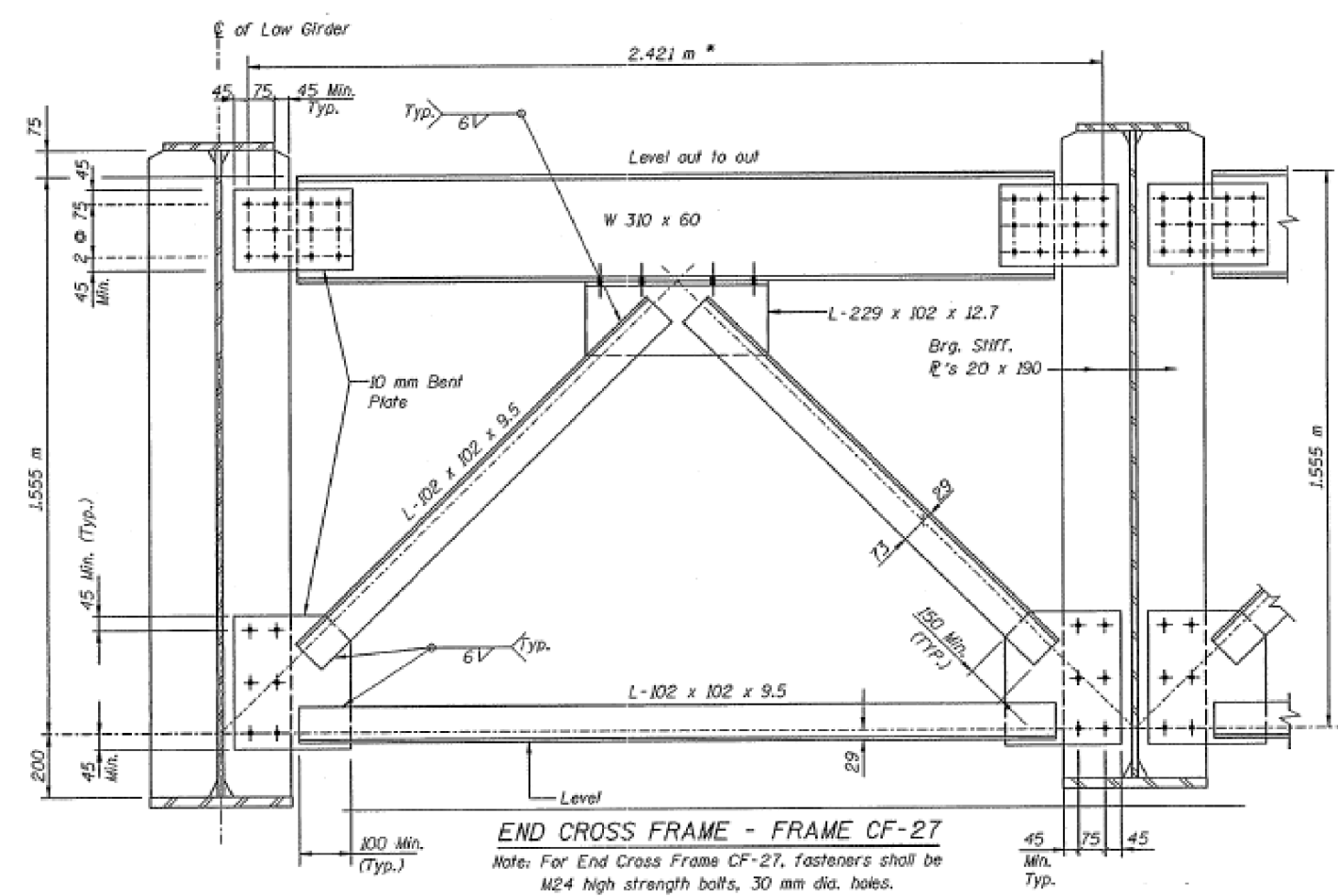
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	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

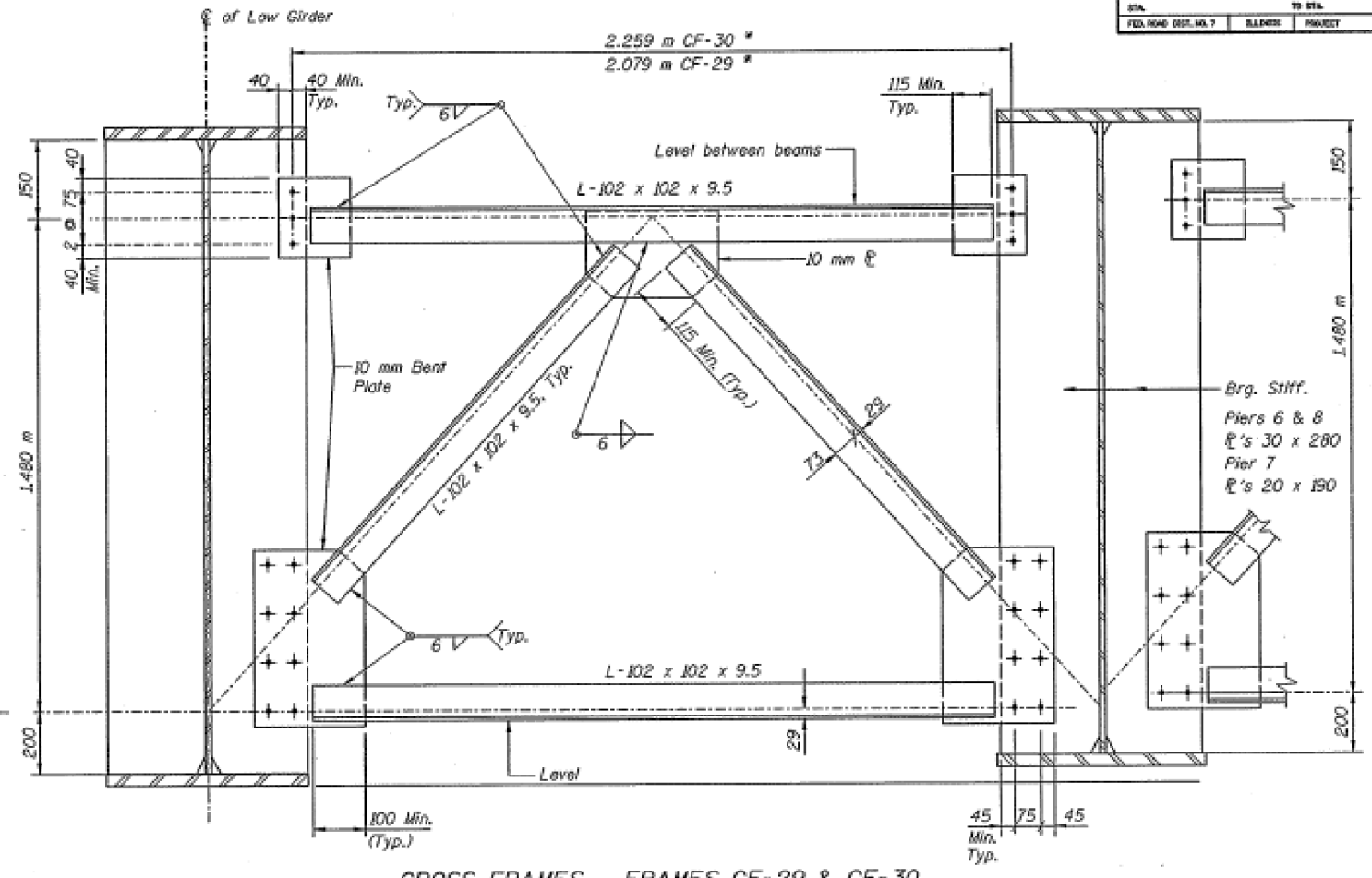
CROSS FRAME DETAILS FOR
STRUCTURE NO. 050-0219

SCALE: _____ SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	47
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

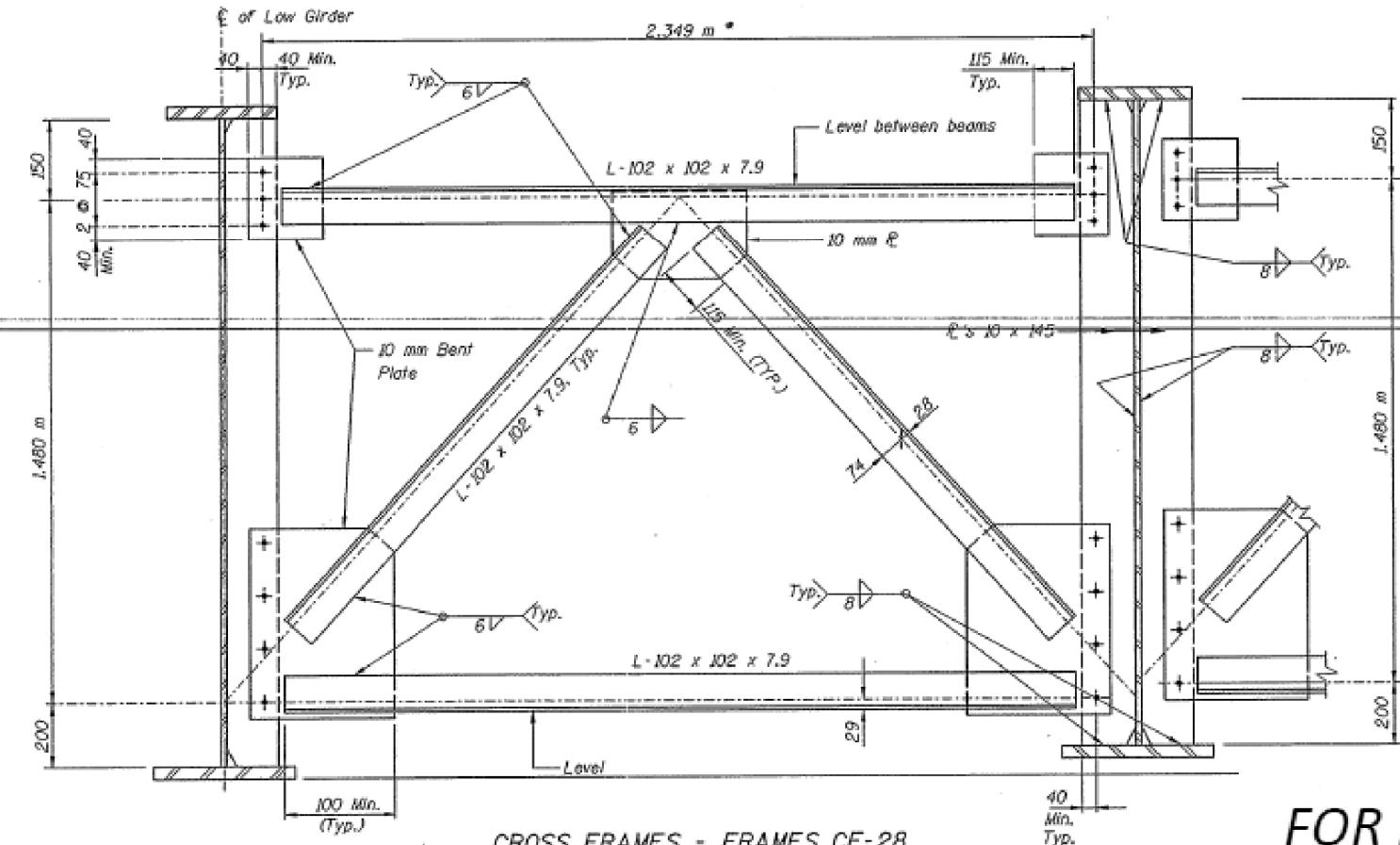


END CROSS FRAME - FRAME CF-27
 Note: For End Cross Frame CF-27, fasteners shall be M24 high strength bolts, 30 mm dia. holes.



**CROSS FRAMES - FRAMES CF-29 & CF-30
 OVER PIER 6, 7 & 8**

* At right angles to C girder.



CROSS FRAMES - FRAMES CF-28

THIS DRAWING FOR INFORMATION ONLY.

**NORTH APPROACH CROSS FRAME DETAILS- SPANS 6, 7, 8 & 9
 CH-15 OVER ILLINOIS RIVER**
 F.A.M. RTE. 6885 (CH-15) SECTION 1D
 LA SALLE COUNTY STA. 1+522.794
 STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DESIGNED BY: M.S.	CHECKED BY: M.S.	DATE: 2-12-97	DRAWING NUMBER S-41
DRAWN BY: M.E.V.	CHECKED BY: M.E.V.	DATE: 2-12-97	
DESIGNED BY: M.J.F.	CHECKED BY: M.J.F.	DATE: 2-12-97	
DESIGNED BY: S.C.J.	CHECKED BY: S.C.J.	DATE: 2-12-97	

FOR INFORMATION ONLY

All dimensions are in millimeter (mm) except as noted.

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

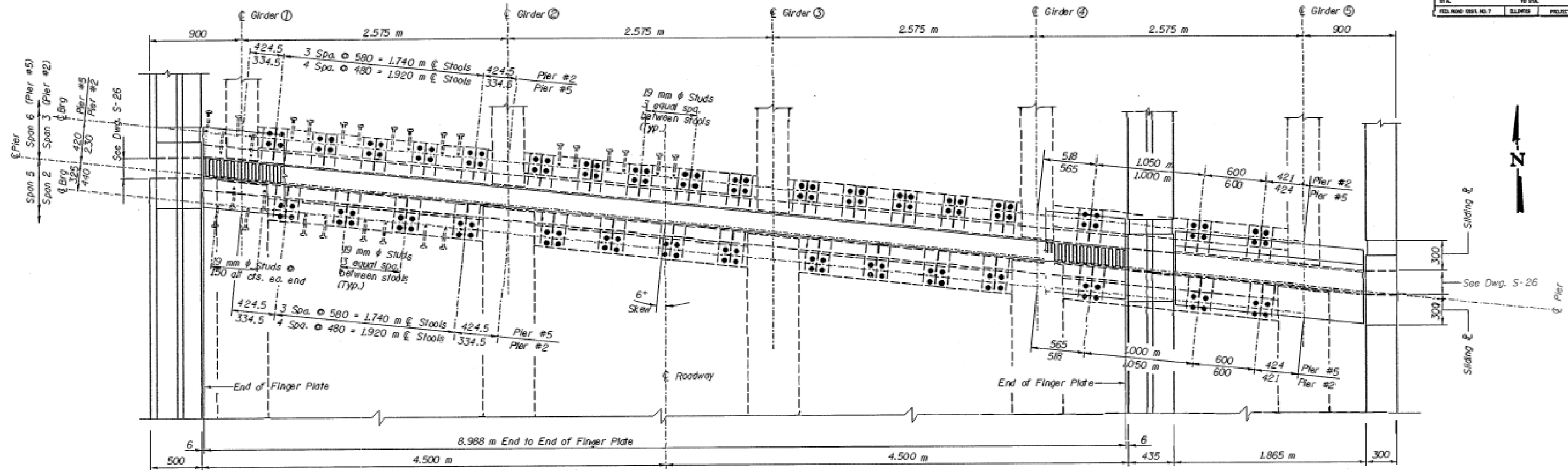
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS FRAME DETAILS FOR
 STRUCTURE NO. 050-0219**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	48
	*FAP 326 (IL 47) & FAS 268A (CH 15)	CONTRACT NO. 66K89		
		ILLINOIS FED. AID PROJECT		

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 PLOTTER: HP DesignJet 5000 Series
 PLOT SCALE: 100,0000' / in.
 PLOT DATE: 3/16/2020



PLAN AT PIER NO. 5
 PLAN AT PIER NO. 2 (SIM.)
 For Deck Plans of Pier No. 2 and No. 5
 see Drawing S-26.

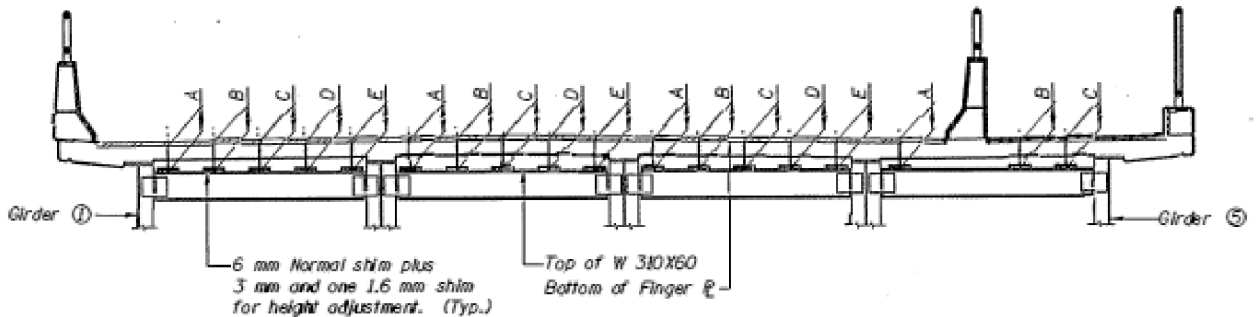
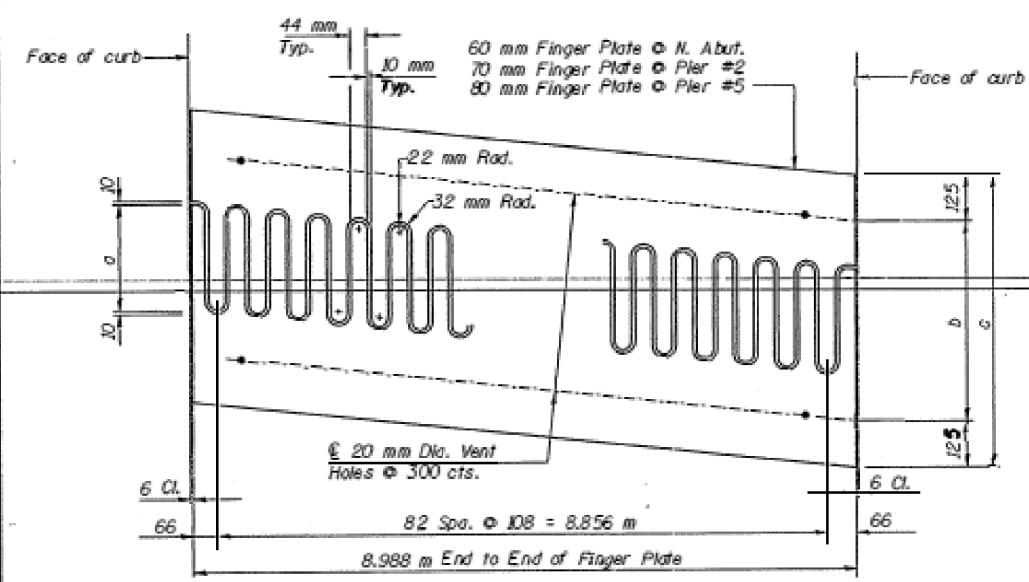


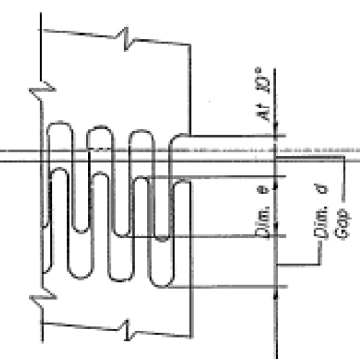
TABLE OF STOOL HEIGHTS AT PIER #2 & PIER #5

Location	Between Girders 1 & 2					Between Girders 2 & 3					Between Girders 3 & 4					Between Girders 4 & 5		
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C
Pier #5 / Span 5	289	301	312	324	—	341	353	362	356	—	348	342	336	330	—	317	361	373
Pier #5 / Span 6	266	276	286	296	306	320	329	338	340	335	329	324	318	313	308	296	340	352
Pier #2 / Span 6	318	323	328	333	338	345	351	356	353	344	330	321	311	301	292	272	294	300
Pier #2 / Span 3	330	336	342	348	—	357	363	367	355	—	338	327	315	304	—	282	305	311

Heights shown are at E bearing and diaphragm and include 6 mm nominal shims. Stool heights shown in the tables on this Drawing and on Drawing S-25 are theoretical. Contractor shall field verify elevation of supporting element and adjust stool heights accordingly. Cost included in unit price bid for F & E Structural Steel.



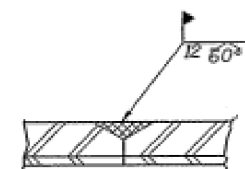
FLAME CUTTING DIAGRAM



FINGER PLATE SETTING DIAGRAM

TABLE OF VARIABLES

LOCATION	a	b	c	d	e
Pier No. 2	230	360	610	107	136
Pier No. 5	306	436	686	144	174
No. Abut.	186	316	566	85	114



FINGER PLATE SPLICE DETAIL

- NOTE:
- The Finger Plates shall be flame cut as provided in Article 505.04 (k) of the Standard Specifications using a 10 mm wide cut.
 - All dimensions for expansion gaps are at 10° C, except as noted.
 - For additional notes, see Drawing S-25.
 - All dimensions are in millimeters (mm) except as noted.

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS FOR
 STRUCTURE NO. 050-0219

SCALE: _____ SHEET 1 OF 3 SHEETS STA. _____ TO STA. _____

FINGER PLATE AT PIER NO. 2 AND PIER NO. 5
 CH-15 OVER ILLINOIS RIVER
 F.A. RT. (266 (CH-15)) SECTION 10
 LA SALLE COUNTY STA. 1452.794
 STRUCTURE NUMBER 050-0219

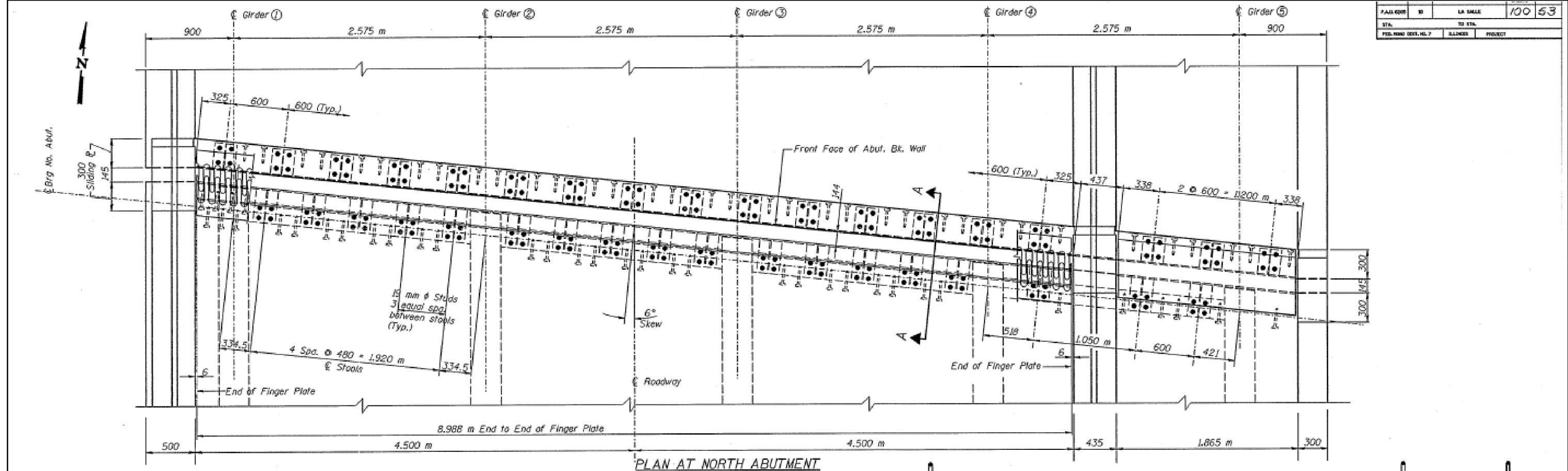
CDI CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DESIGNED BY: N.M. CHECKED BY: M.E.W. DATE: 2-26-20
 DRAWN BY: M.L.P. APPROVED BY: S.C.L. DATE: 3-5-20
 CHECKED BY: S.C.L. DATE: 3-5-20

DRAWING NUMBER
S-24

F.A. RT. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100 52	10	GRUNDY, LASALLE	55	49
*FAP 326 (IL 47) & FAS 268A (CH 15)			CONTRACT NO. 66K89	
ILLINOIS			FED. AID PROJECT	

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PLAN AT NORTH ABUTMENT

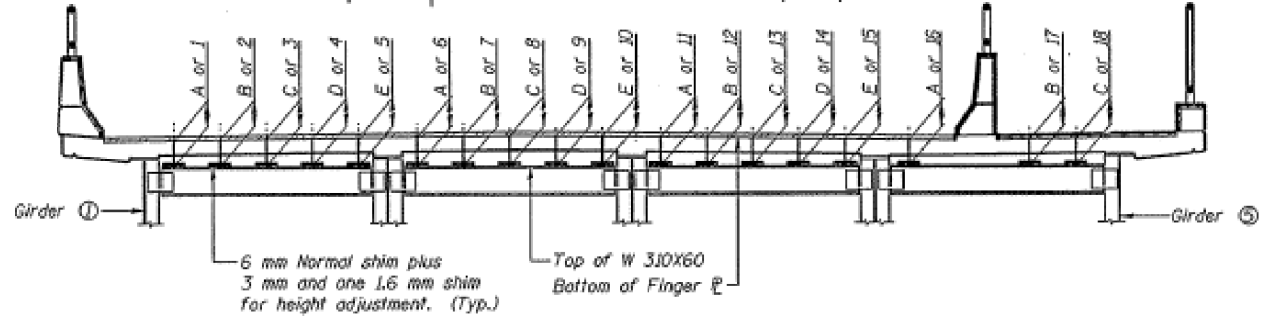
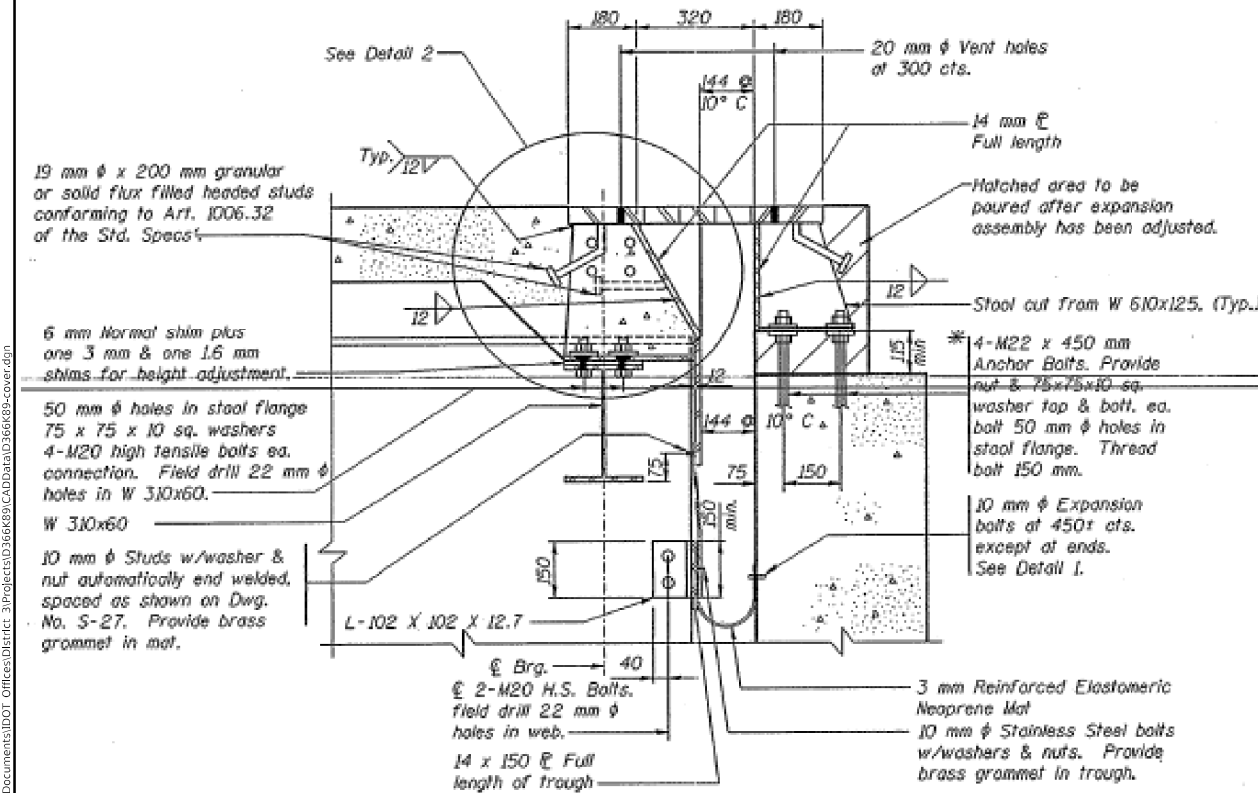
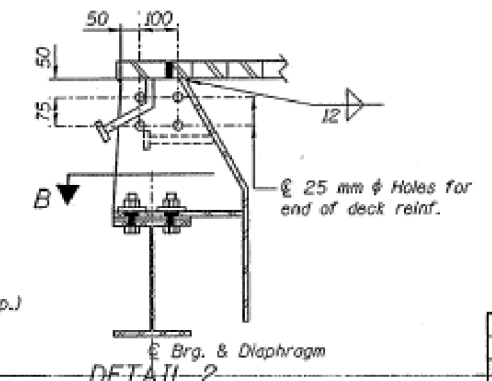


TABLE OF STOOL HEIGHTS AT NORTH ABUTMENT (See Notes on Drawing S-24.)

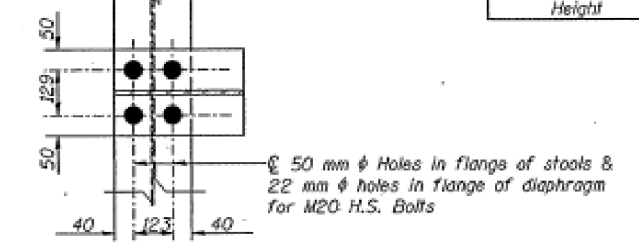
Back Wall Location	Back Wall Height																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Between Girders	1 & 2									2 & 3			3 & 4						4 & 5		
Location	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C			
Height	287	297	306	316	326	340	349	358	360	355	349	344	339	333	328	317	340	352			



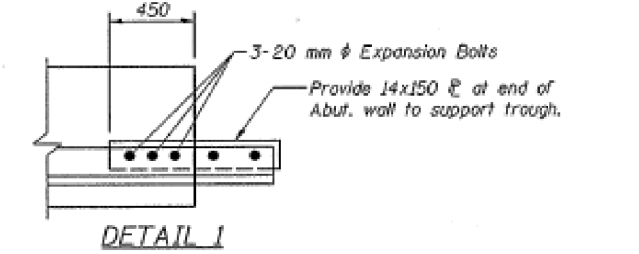
SECTION A-A



DETAIL 2



SECTION B



DETAIL 1

- Notes:**
- The expansion device shall be fabricated to fit the roadway grade and cross slope.
 - All plates, studs, stools, bolts and all other work and materials needed for the Finger Plate Assembly shall be included in the unit price bid for Furnishing and Erecting Structural Steel (AASHTO M270 Grade 345).
 - The cost of the Elastomeric Neoprene Mat, Trough and End Dam complete in place shall be paid for at the unit price bid for Reinforced Neoprene Expansion Joint Treatment.
 - 10 mm φ and 19 mm φ Headed studs shall conform to Article 1006.32 of the Standard Specifications and shall be granular or solid flux filled automatically end welded.
 - 10 mm φ Threaded studs automatically end welded shall conform to Article 1052 (a) of the Standard Specifications.
 - All dimensions are in millimeters (mm) except as noted.

FINGER PLATE AT NORTH ABUTMENT
CH-15 OVER ILLINOIS RIVER
F.A.O. RTE. 6265 (CH-15) SECTION 10
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DRAWING NUMBER
S-25

* Drill and epoxy grout anchor bolts in place in accordance with Section 584 of the Standard Specifications. Minimum embedment is 225 mm.

FOR INFORMATION ONLY

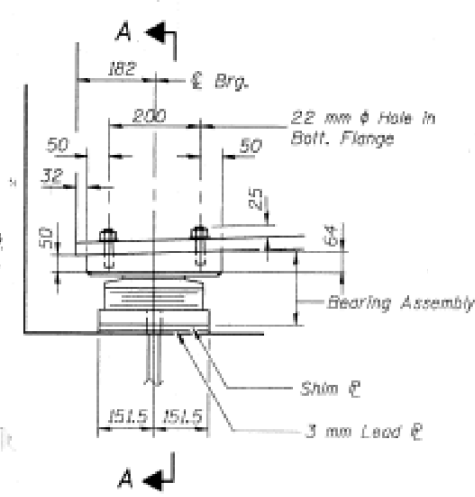
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

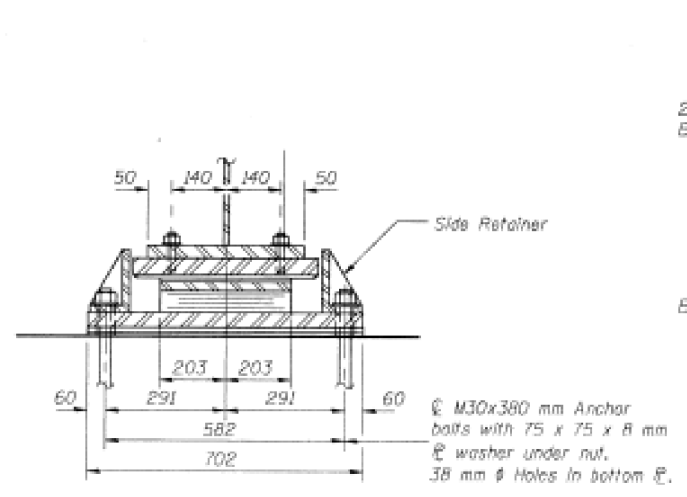
EXPANSION JOINT DETAILS FOR
STRUCTURE NO. 050-0219

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 PLOT DATE: 3/16/2020

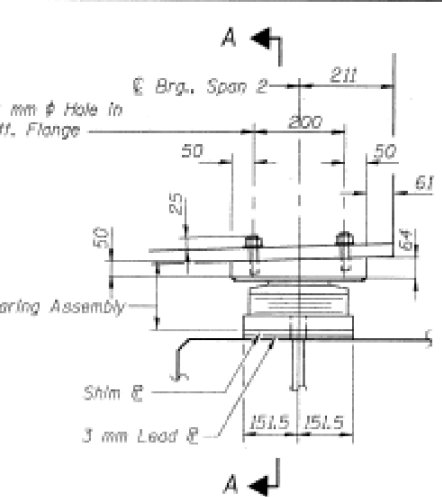
ROUTE NO.	METER	COUNTY	TOTAL SHEETS	NO.
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STA.	TO STA.			
FED. AID DIST. NO. 7	ALIGNED	PROJECT		



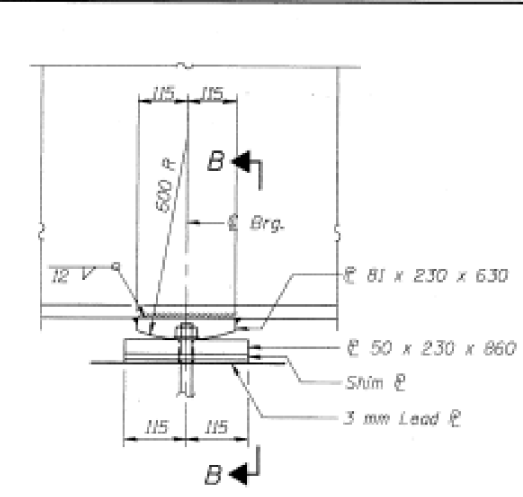
ELEVATION AT SOUTH ABUT.



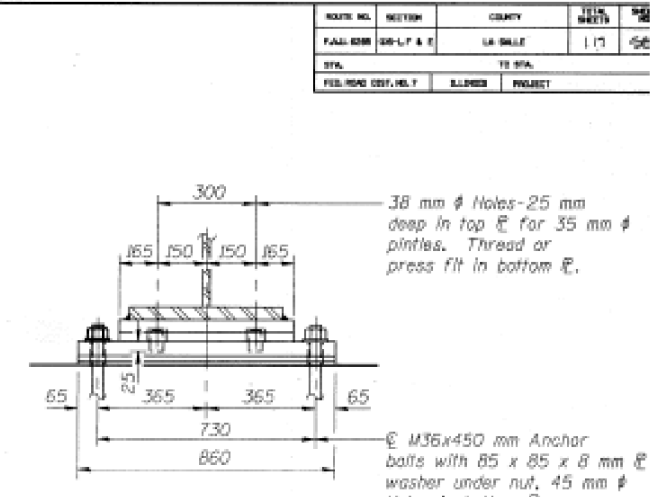
SECTION A-A



ELEVATION AT PIER #2



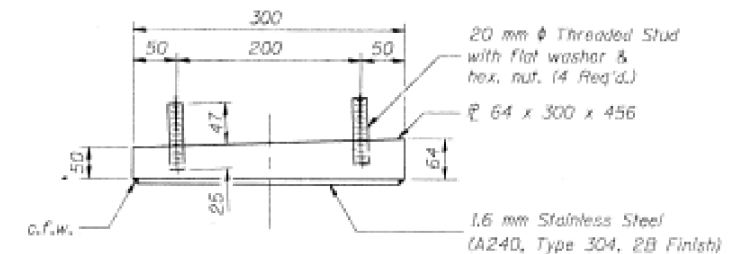
ELEVATION AT PIER #1



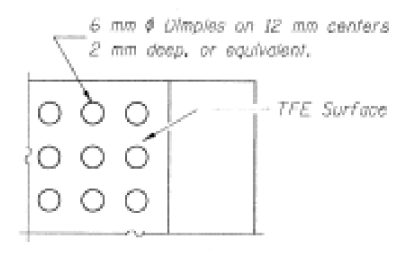
SECTION B-B

TYPE II TFE ELASTOMERIC EXP. BRG. @ SO. ABUT. & PIER #2
(No. required = 10)

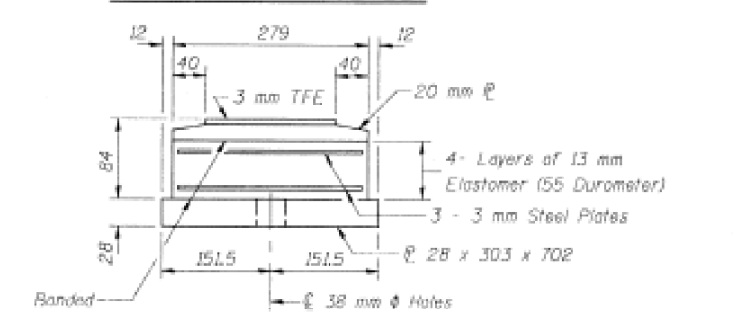
FIXED BEARING @ PIER #1
(No. required = 5)



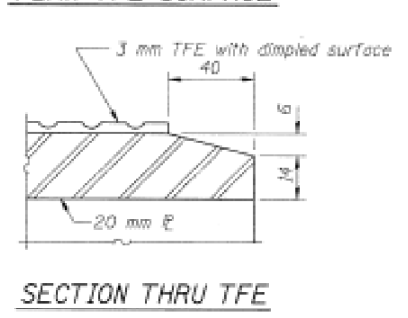
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



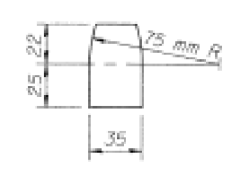
BOTTOM BEARING ASSEMBLY



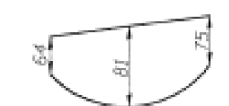
SECTION THRU TFE

Note: The 3 mm TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 3 mm TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



PINTLE



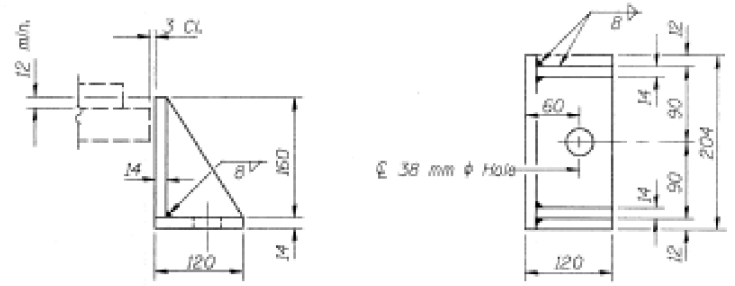
TOP PLATE ELEVATION

Notes: Anchor bolts of fixed bearings may be built into the masonry. See Drawing No. 5-31 for Anchor Bolt Installation. All dimensions are in millimeters (mm) except as noted.

- Bearing Plates including Pintles are M270 Gr. 345.
Shim Plates are required as follows:
28 mm @ S. Abutment: Beam 3
11 mm @ S. Abutment: Beam 4
11 mm @ Pier #1: Beam 3
8 mm @ Pier #1: Beam 4
6 mm @ Pier #2-Span 2: Beam 2
5 mm @ Pier #2-Span 2: Beam 4
6 mm @ Pier #2-Span 3: Beam 2
5 mm @ Pier #2-Span 3: Beam 4
6 mm @ Pier #3: Beam 2
5 mm @ Pier #3: Beam 4

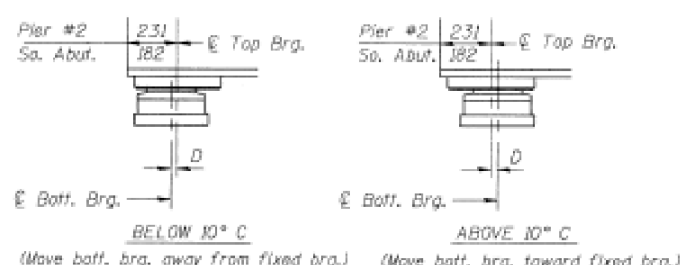
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	10



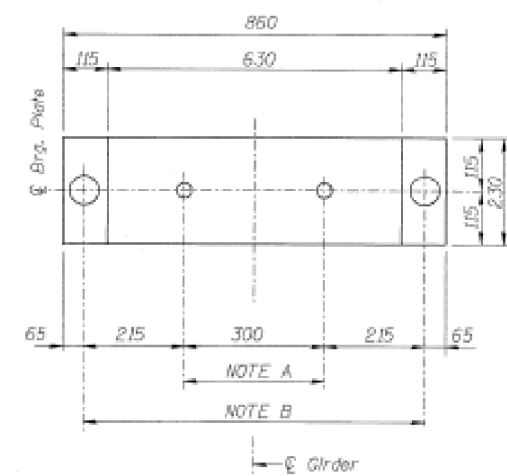
SIDE RETAINER

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 = 1 mm per each 10 m of expansion for every 0° C temp. change from the normal temp. of 10° C.



PLAN AT PIER NO. 1

NOTE A: 35 mm Pintles-47 mm long in bottom plate. Threaded or press fit pintles in bottom plate. 38 mm holes in top plate for pintles.

NOTE B: 45 mm Holes for M36x450 mm anchor bolts. 85 x 85 x 8 mm Plate washer under nut.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS FOR
STRUCTURE NO. 050-0219

SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

SOUTH APPROACH BEARING DETAILS-SO. ABUTMENT, PIER #1 & #2
CH-15 OVER ILLINOIS RIVER
F.A.D. RTE. 6265 (CH-15) SECTION (1118-1), F & E
LA SALLE COUNTY STA. 1+582.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

DATE: 11/15/19
DRAWN BY: M.E.S. DATE: 8-21-98
CHECKED BY: P.S.
APPROVED BY: S.C.J.

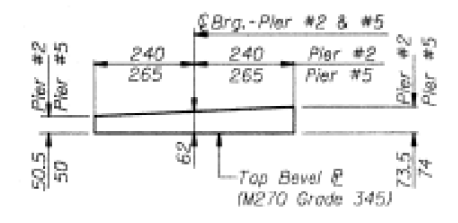
DRAWING NUMBER
S-32

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

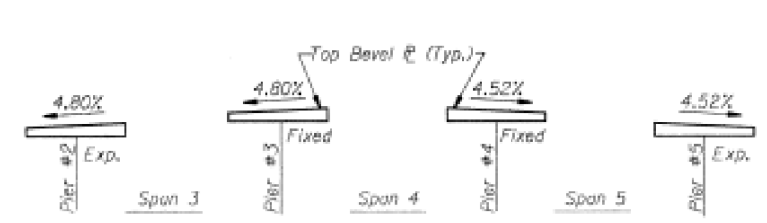
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1118-1	BR-1(1B-1)BP	GRUNDY, LASALLE	55	52
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	SHEETS	TOTAL
F.A.N. RTE. 6265 (CH-15)	CH-15 & E	LA SALLE	117	69
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

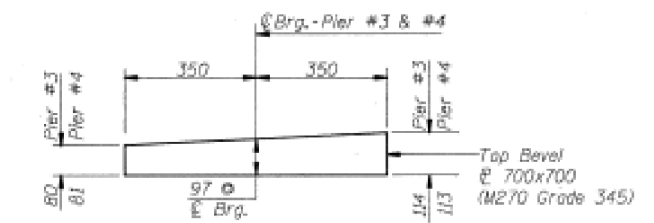
- NOTES:
1. For Pat Bearing Data and Bill of Material see Drawing No. S-35.
 2. All dimensions are in millimeters (mm) except as noted.



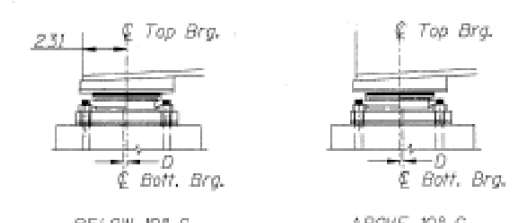
TOP PLATE ELEVATION



SCHEMATIC SLOPES OF TOP BEVEL PLATES

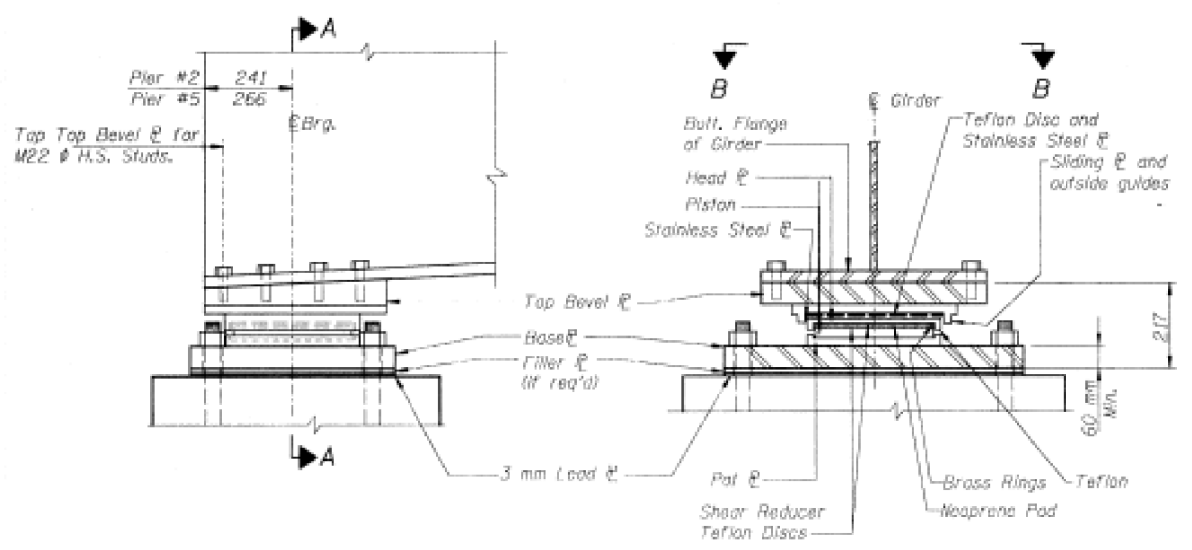


TOP PLATE ELEVATION



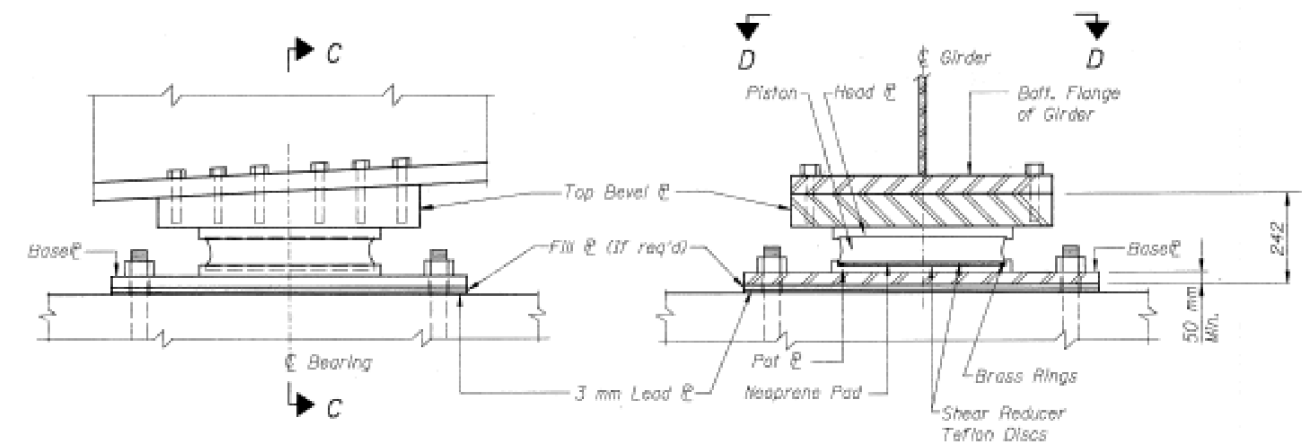
SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1 mm per each 10 m of expansion for every 8° C temp. change from the normal temp. of 10° C.



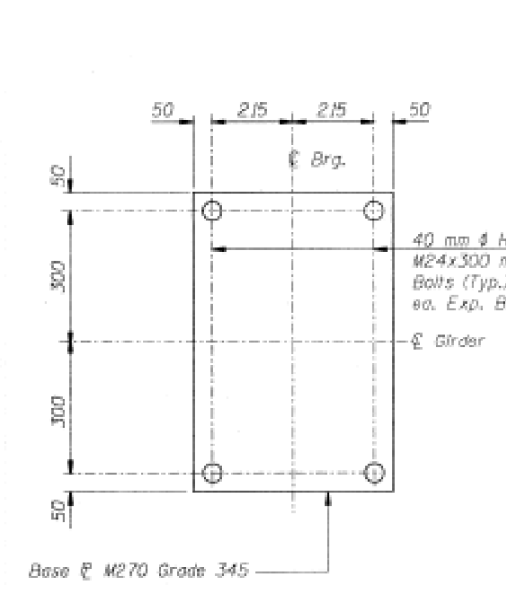
BEARING ELEVATION

SECTION A-A

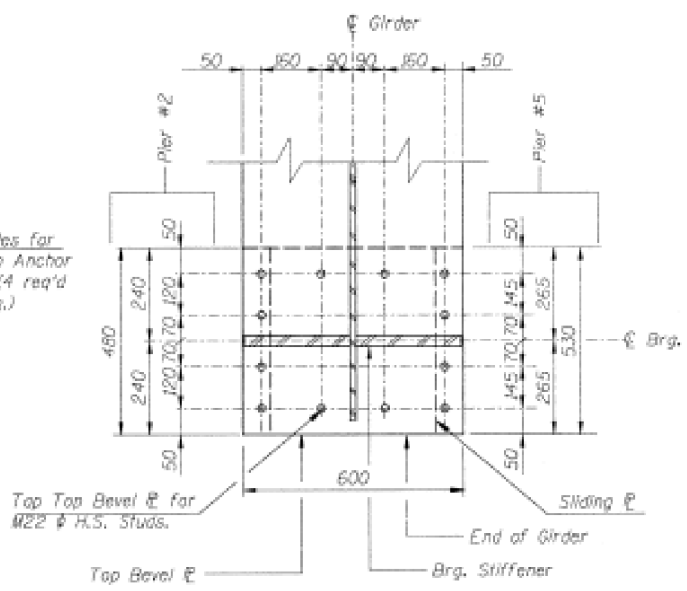


BEARING ELEVATION

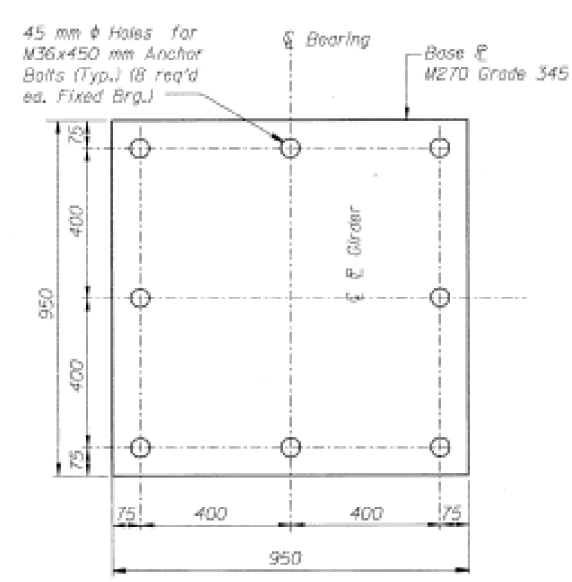
SECTION C-C



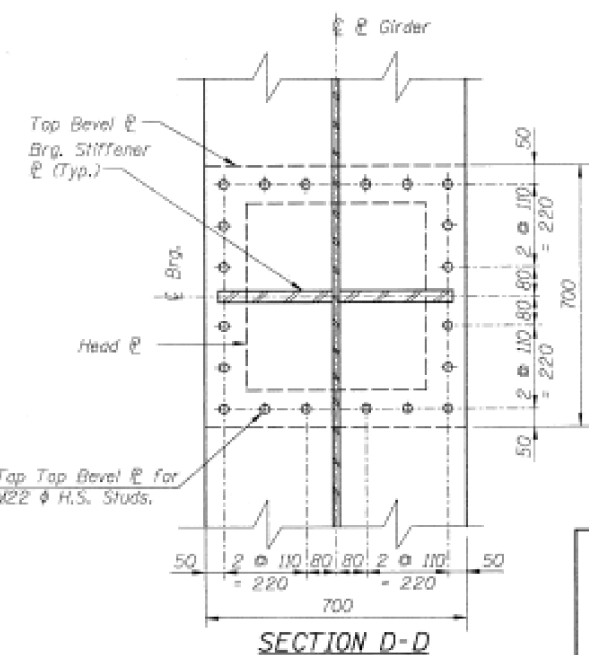
BASE PLATE PLAN



SECTION B-B



BASE PLATE PLAN



SECTION D-D

1000 kN FLOATING BEARING-GUIDED EXPANSION AT PIERS #2 (SPAN 3) AND #5 (Span 5)
 (Pier #2 shown - Pier #5 similar)
 (No. required = 10)

3500 kN FLOATING BEARING-FIXED AT PIERS #3 AND #4
 (Pier #3 shown - Pier #4 similar)
 (No. required = 10)

FOR INFORMATION ONLY

USER NAME = grunstad	DESIGNED - TG	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - TG	REVISED -
PLOT DATE = 3/16/2020	CHECKED - RW	REVISED -
	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS FOR
 STRUCTURE NO. 050-0219

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

NAVIGATION SPANS POT BEARINGS-PIERS #2, #3, #4 & #5
 CH-15 OVER ILLINOIS RIVER
 F.A.N. RTE. 6265 (CH-15) SECTION (110-1, F & E)
 LA SALLE COUNTY STA. 1+522.754
 STRUCTURE NUMBER 050-0219

CDI		CLARK DIETZ, INC. ENGINEERS ARCHITECTS	
CHAMPAIGN, ILLINOIS		CHICAGO, ILLINOIS	
NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.			
DESIGNED BY: M.P.S.	CONTRACT NO.:		
DRAWN BY: M.E.W.	DATE: 8-21-95		
CHECKED BY: P.C.S.			
APPROVED BY: S.C.J.			
ACTIVITY: INITIALS			
		SECTION	COUNTY
		[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE
		*FAP 326 (IL 47) & FAS 268A (CH 15)	CONTRACT NO. 66K89
		ILLINOIS	FED. AID PROJECT

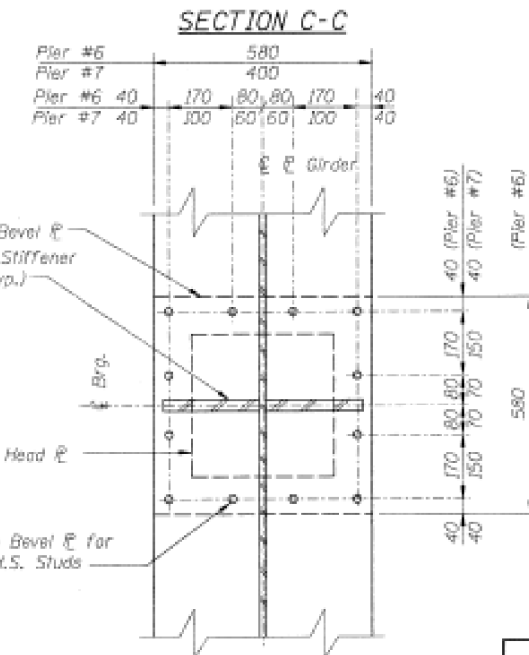
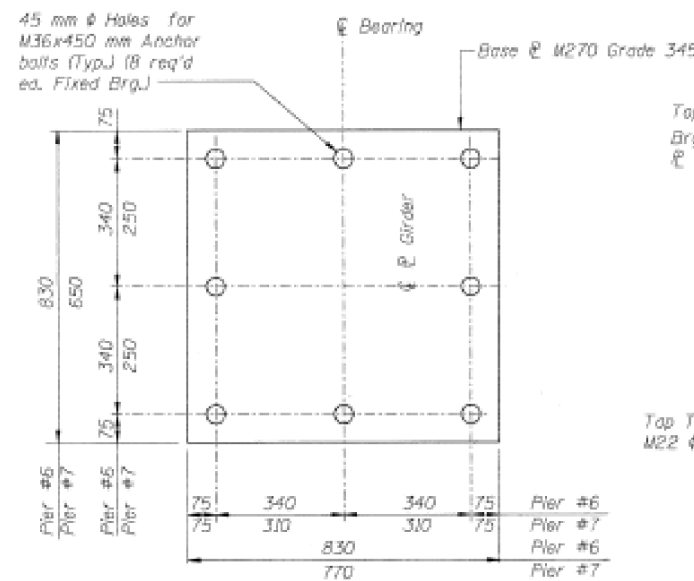
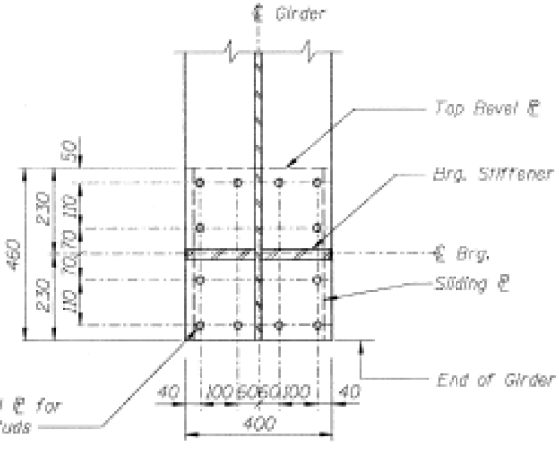
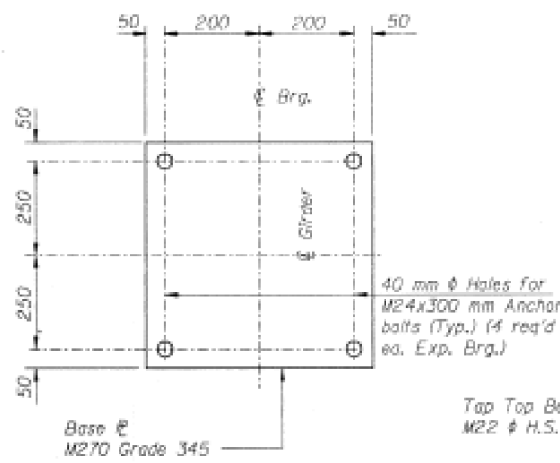
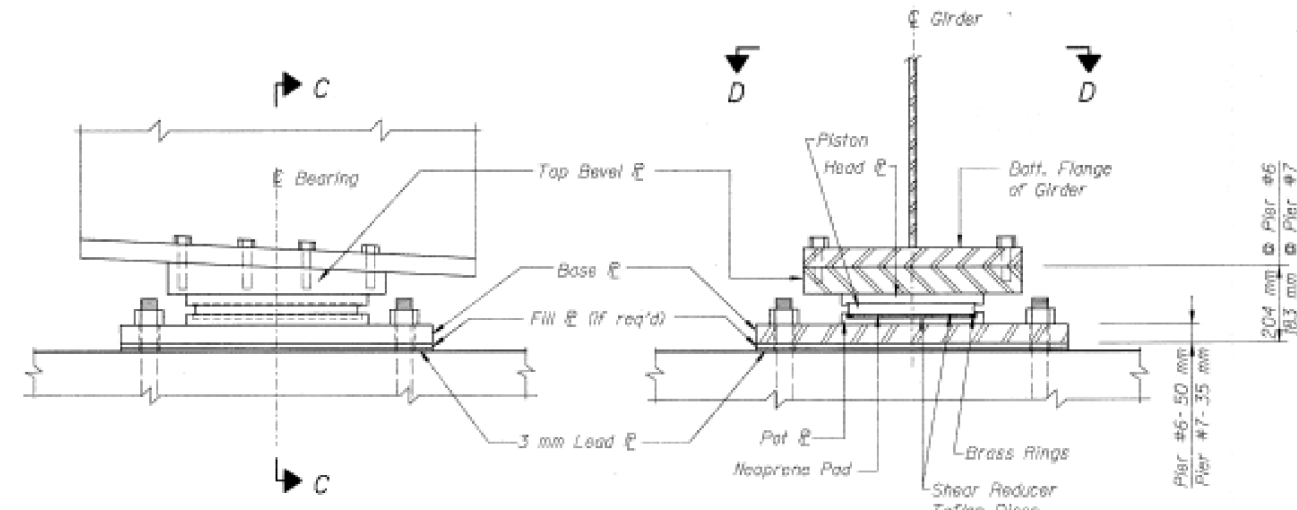
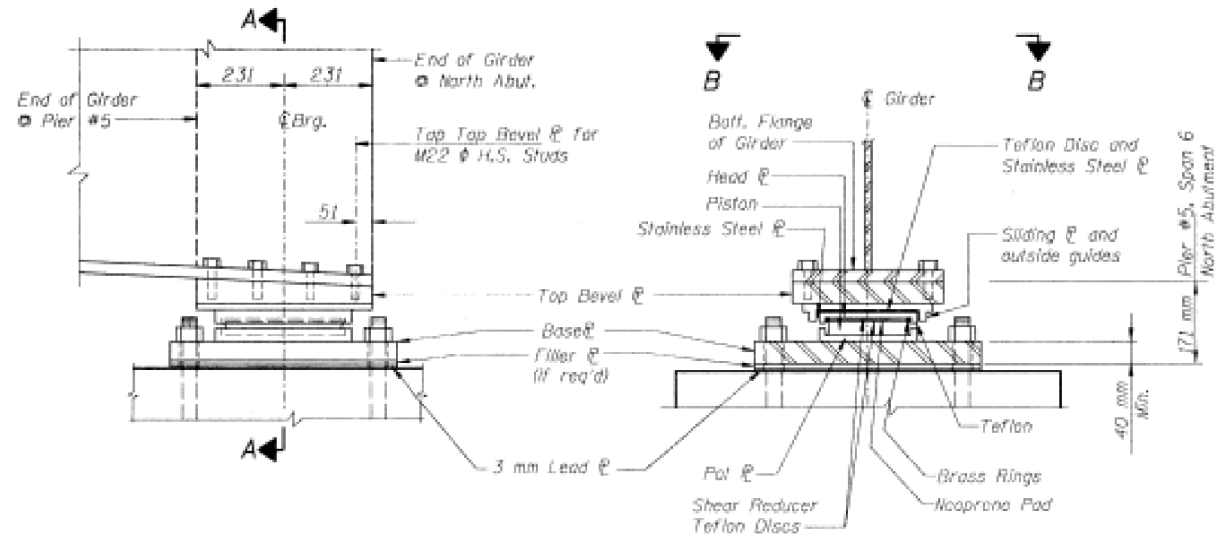
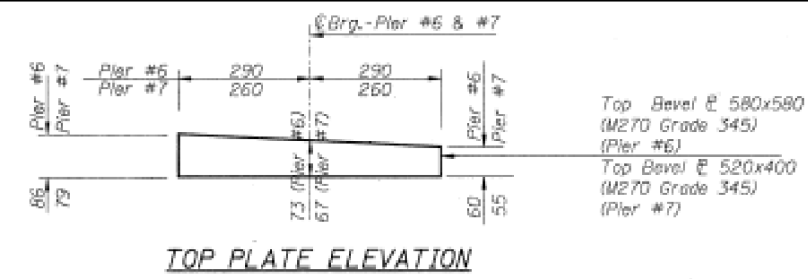
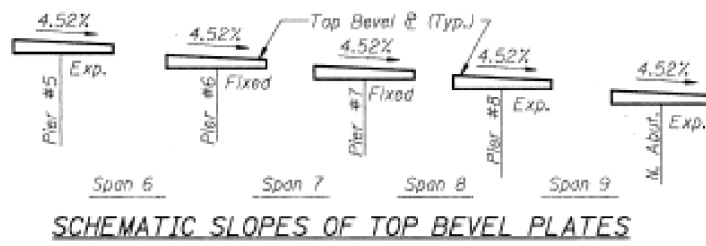
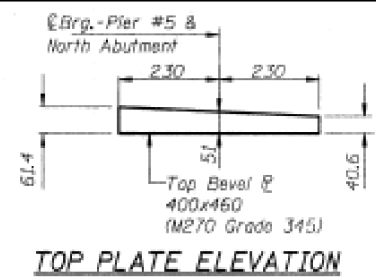
S-33

TOTAL SHEETS	55	SHEET NO.	53
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DATE	SECTION	COUNTY	SHEETS	TOTAL
FALL 2019	BR-1, F & E	LA SALLE	117	10
STA.		TO STA.		
P.L. ROAD DIST. NO. 7		ILLINOIS PROJECT		

- NOTES:
- For Pot Bearing Data and Bill of Material see Drawing No. S-35.
 - All dimensions are in millimeters (mm) except as noted.



750 kN FLOATING BEARING-GUIDED EXPANSION AT PIER #5 (SPAN 6) AND NORTH ABUTMENT
(Pier #5 shown - North Abutment similar)
(No. Req'd = 10)

**2000 kN FLOATING BEARING-FIXED AT PIERS #6 (NO. REQ'D = 5)
1750 kN FLOATING BEARING-FIXED AT PIERS #7 (NO. REQ'D = 5)**

FOR INFORMATION ONLY

USER NAME	DESIGNED	REVISIONS
= grunstda	TG	
	TG	
	RW	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[(111BR, BR-1)(1B-1)]BP	GRUNDY, LASALLE	55	54
	*FAP 326 (IL 47) & FAS 268A (CH 15)	CONTRACT NO. 66K89		
		ILLINOIS	FED. AID PROJECT	

**BEARING DETAILS FOR
STRUCTURE NO. 050-0219**

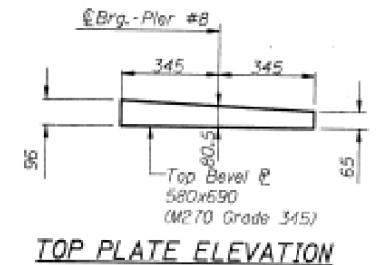
NORTH APPROACH POT BEARINGS-PIERS #5, #6, #7 AND NO. ABUTMENT
CH-15 OVER ILLINOIS RIVER
F.A.U. WTE. 6265 (CH-15) SECTION 111B-1, F & E
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

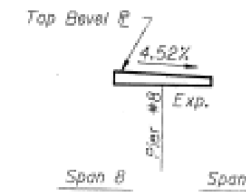
REVISION	DATE	BY	DESCRIPTION

S-34

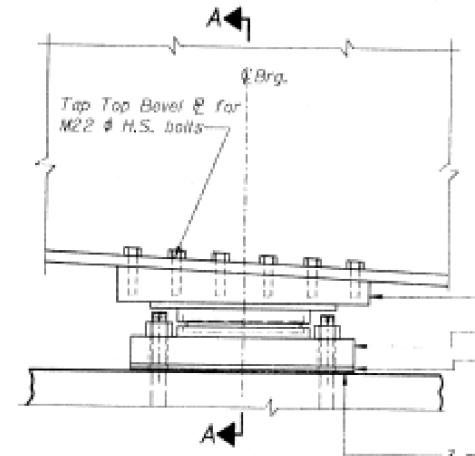
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
F.A.U. RTE. 6265 (CH-15)	111B-1, F & E	LA SALLE	117
STA.	TO STA.		
P.L. PROJ. DIST. NO. 1	ILLINOIS	PROJECT	



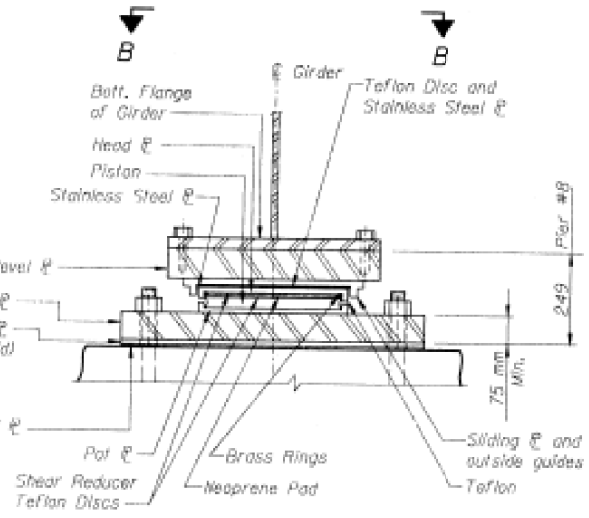
TOP PLATE ELEVATION



SCHEMATIC SLOPE OF TOP BEVEL PLATE



BEARING ELEVATION

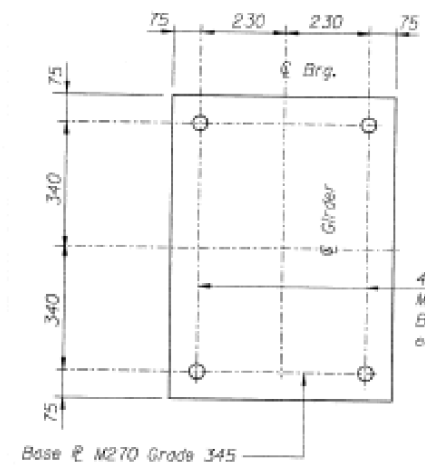


SECTION A-A

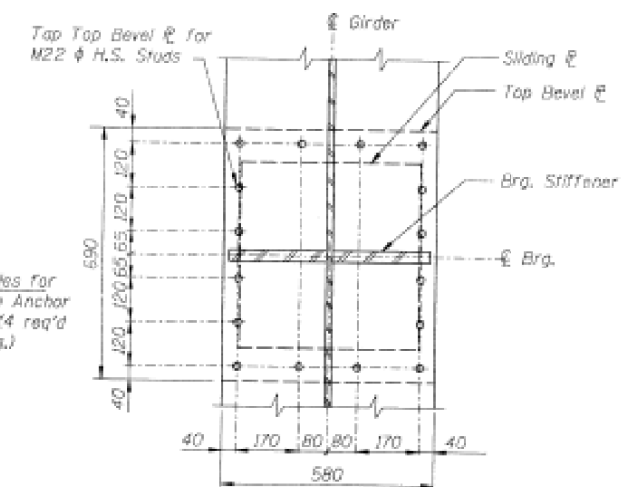
POT BEARING DATA

	NAVIGATION CANAL SPANS			NORTH APPROACH SPANS				N. ABUT. EXP.
	PIER #2 EXP.	PIER #5 EXP.	PIER #3 & #4 FIXED	PIER #5 EXP. (SPAN 6)	PIER #6 FIXED	PIER #7 FIXED	PIER #8 EXP.	
Min. P (kN)	582	582	2,256	379	1,215	902	1,215	379
Max. P (kN)	621	621	2,376	402	1,289	956	1,289	402
Σ P (kN)	362	362	892	292	594	548	594	292
Total (kN)	983	983	3,268	694	1,883	1,504	1,883	694
Long. Loads (max.)								
Wind (kN)	0	0	76	0	53	53	0	0
Earthquake (kN)	0	0	601	0	436	436	0	0
Trans. Loads (max.)								
Wind (kN)	40	40	160	28	80	67	80	28
Earthquake (kN)	125	125	476	81	258	192	258	81
Rotation (Radians)	0.02	0.02	0.002	0.015	0.005	0.001	0.005	0.010
Movement Long. (mm)	65 E.W.	95 E.W.	0	50 E.W.	0	0	50 E.W.	70 E.W.
Movement Tran. (mm)	3 E.W.	3 E.W.	3 E.W.	3 E.W.	3 E.W.	3 E.W.	3 E.W.	3 E.W.
Earthquake A. Bolts								
Long. (kN)	0	0	601	0	436	436	0	0
Trans. (kN)	125	125	476	81	258	192	258	81

Maximum sliding coefficient of friction shall not exceed 3 percent.



BASE PLATE PLAN



PLAN TOP PLATE SECTION B-B

2000 kN FLOATING BEARING-GUIDED EXPANSION AT PIER #8
(No. Req'd = 5)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing Floating Bearings, Guided Exp. 1,000 kN	Ea.	10
Furnishing Floating Bearings, Guided Exp. 750 kN	Ea.	10
Furnishing Floating Bearings, Guided Exp. 2,000 kN	Ea.	5
Furnishing Floating Bearings, Fixed 3,500 kN	Ea.	10
Furnishing Floating Bearings, Fixed 2,000 kN	Ea.	5
Furnishing Floating Bearings, Fixed 1,750 kN	Ea.	5

FOR INFORMATION ONLY

NORTH APPROACH POT BEARING-PIER #8
CH-15 OVER ILLINOIS RIVER
F.A.U. RTE. 6265 (CH-15) SECTION 111B-1, F & E
LA SALLE COUNTY STA. 1+522.794
STRUCTURE NUMBER 050-0219

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS

NOTE: DIMENSIONAL DATA IS NOT TO BE DEPENDENT ON SCALE AND NOT PORTION OF THIS DRAWING.
DESIGNED BY: H.M. PROJECT NO.:
DRAWN BY: M.E.M. DATE: 3-21-20
CHECKED BY: P.S.
APPROVED BY: S.C.L.
ACTIVITY: DETAILS

DRAWING NUMBER:
S-35

USER NAME = grunstad	DESIGNED - TG	REVISED -
	DRAWN - TG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RW	REVISED -
PLOT DATE = 3/16/2020	DATE - 3/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS FOR
STRUCTURE NO. 050-0219

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
111B-1, F & E	BR-1(1B-1)BP	GRUNDY, LASALLE	55	55
*FAP 326 (IL 47) & FAS 268A (CH 15)		CONTRACT NO. 66K89		
ILLINOIS		FED. AID PROJECT		

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