

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	28VBR-BRR	SANGAMON	12	1
		ILLINOIS	CONTRACT NO. 72715	

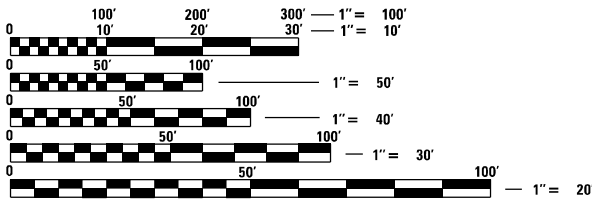
D-96-039-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
CONTRACT MAINTENANCE

FAP ROUTE 668 (IL 29 / DIRKSEN PKWY)
SECTION 28VBR-BRR
PROJECT (STATE)
BRIDGE SUBSTRUCTURE REPAIR
SANGAMON COUNTY

C-96-086-23

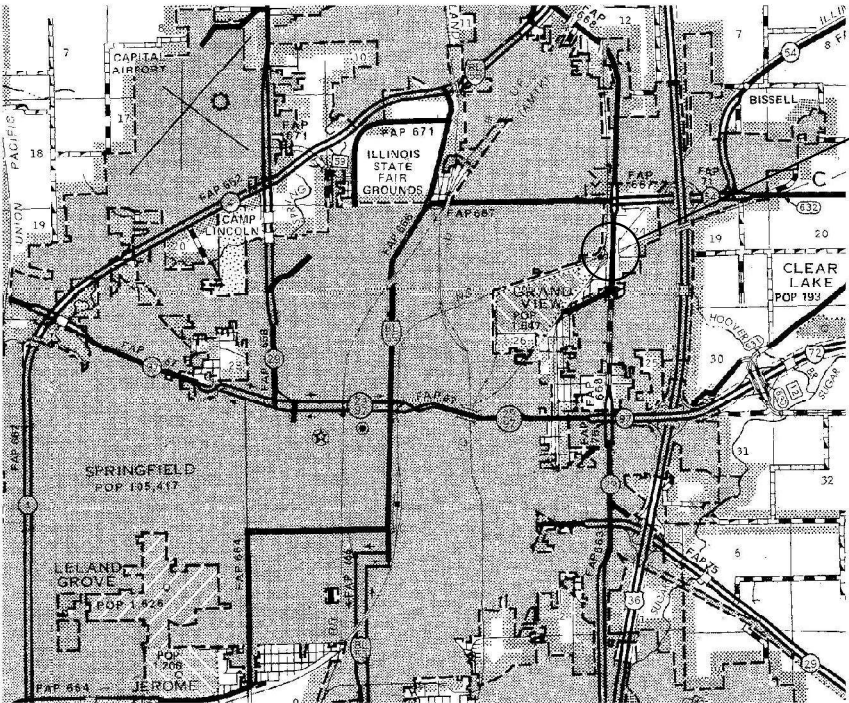


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

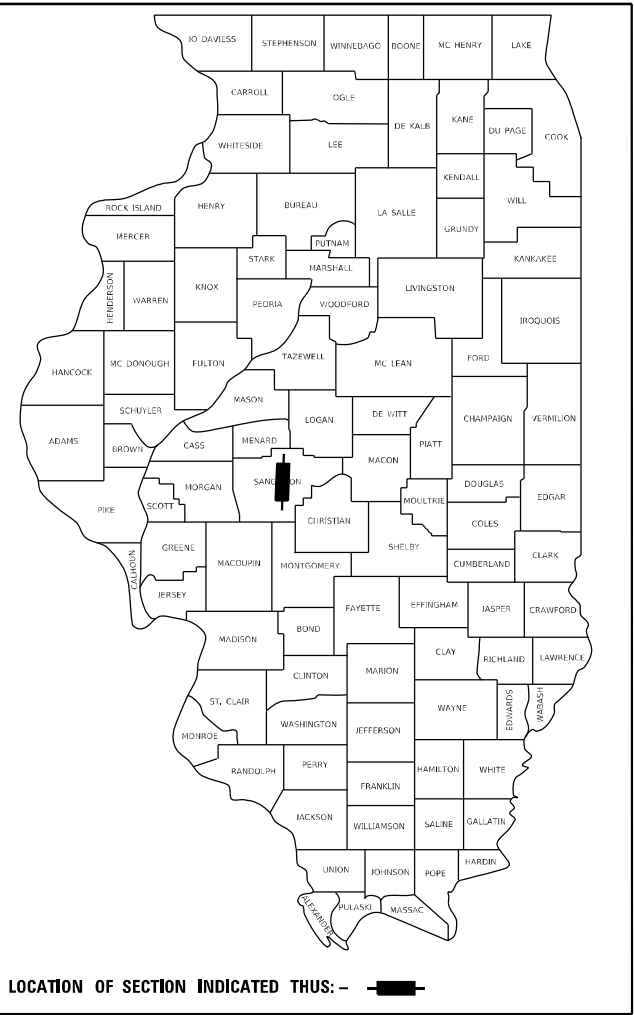
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY – (217) 785-9290

CONTRACT NO. 72715



SN 084-0073 (SB) & 0178 (NB)
IL 29 (DIRKSEN PKWY.)
OVER NSRR & ICRR
0.4 MI S SANGAMON AVE.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 7 2025
Lora Renshaw REGIONAL ENGINEER

December 5 2025
Scott A. Etkin ENGINEER OF DESIGN AND ENVIRONMENT

December 5 2025
John P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GROSS LENGTH = 415 FT. = 0.08 MILE
NET LENGTH = 415 FT. = 0.08 MILE

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-12 SN 084-0073 & 0178 BRIDGE PLANS

STANDARDS

- 000001-09
- 001001-02
- 001006
- 701101-05
- 701106-02
- 701601-09
- 701901-11

GENERAL NOTES:

PRIOR RO START OF ANY CONSTRUCTION ON NSRR RIGHT-OF-WAY, WRITTEN APPROVAL FROM NSRR FOR THE CONSTRUCTION PROCEDURE MUST BE SECURED.

One Call services do not locate buried railroad signal and communications lines. The contractor shall contact the Railroad's representative two days in advance of work at those places where excavation, pile driving, or heavy loads may damage the Railroad's underground facilities. Upon request from the Contractor or Sponsor, Railroad forces will locate and paint mark or flag the Railroad's underground facilities. The Contractor shall avoid excavation or other disturbance of these facilities. If disturbance or excavation is required near a buried Railroad facility, the Contractor shall coordinate with the Railroad to have the facility potholed manually with careful hand excavation. The facility shall be protected by the Contractor during the course of the disturbance under the supervision and direction of the Railroad's representative. (See NS Public Projects Manual, Appendix E, Section 3.D)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED

January 27,

20

25

ENGINEER OF OPERATIONS

EXAMINED

January 27,

20

25

ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED

January 27,

20

25

ENGINEER OF PROGRAM DEVELOPMENT

REV - MS

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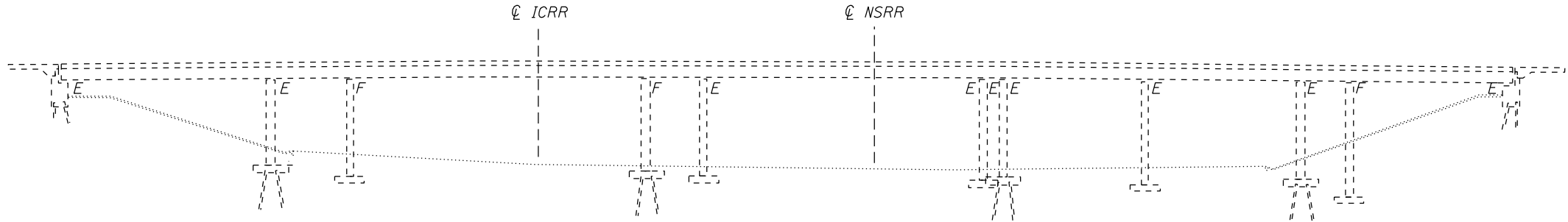
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		DRAWN -	REVISED -						668	28VBR-BRR	SANGAMON	12	2
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	PLOT DATE = 8/25/2025	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			
					ILLINOIS FED. AID PROJECT								

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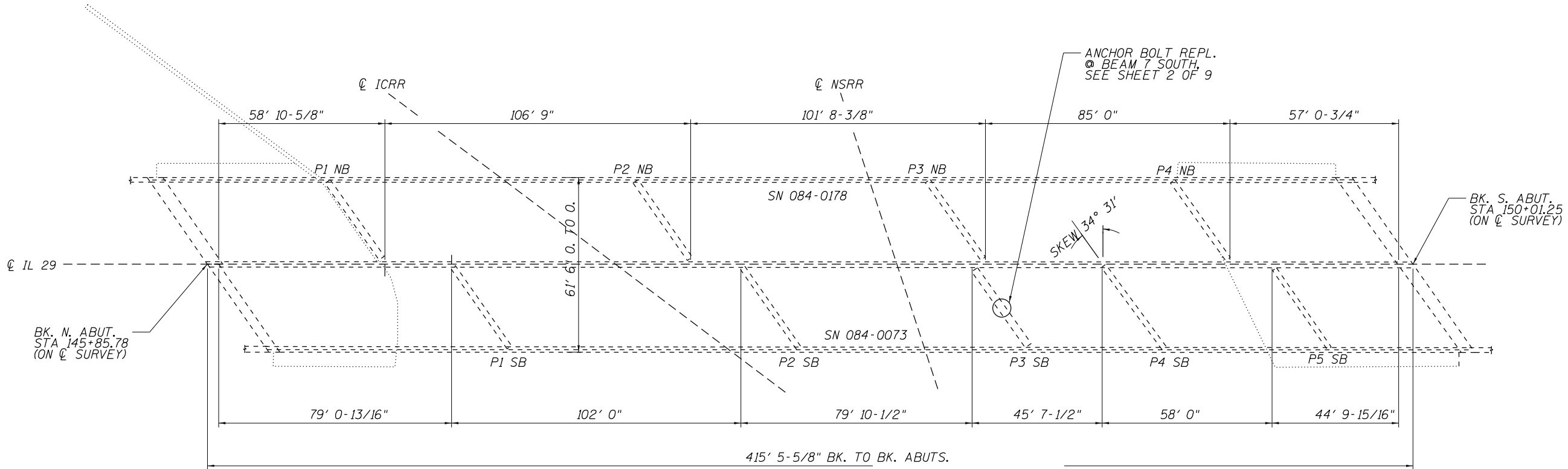
				0-02180-6003
				SN 084-0073/0178
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/URBAN
				0047
				SANGAMON
50300225	CONCRETE STRUCTURES	CU YD	12	12
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2120	2120
52100520	ANCHOR BOLTS, 1"	EACH	1	1
67100100	MOBILIZATION	L SUM	1	1
X5051206	STRUCTURAL STEEL REPAIR	POUND	13	13
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	263	263
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	3	3

REV. SK

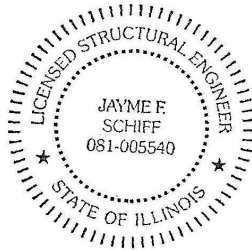
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		DRAWN -	REVISED -						668	28VBR-BRR	SANGAMON	12	3
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	PLOT DATE = 1/27/2025	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



ELEVATION



PLAN



EXPIRES 11-30-2026
Jayne F. Schiff

STRUCTURE GENERAL NOTES:

- ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED.
- ALL NEW STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STEEL STRUCTURES."
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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

EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

TOTAL BILL OF MATERIAL (084-0073 & 0178)

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	12
Reinforcement Bars, Epoxy Coated	Pound	2120
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	263
Temporary Shoring and Cribbing	Each	3
Anchor Bolts, 1" ϕ	Each	1
Structural Steel Repair	Pound	13

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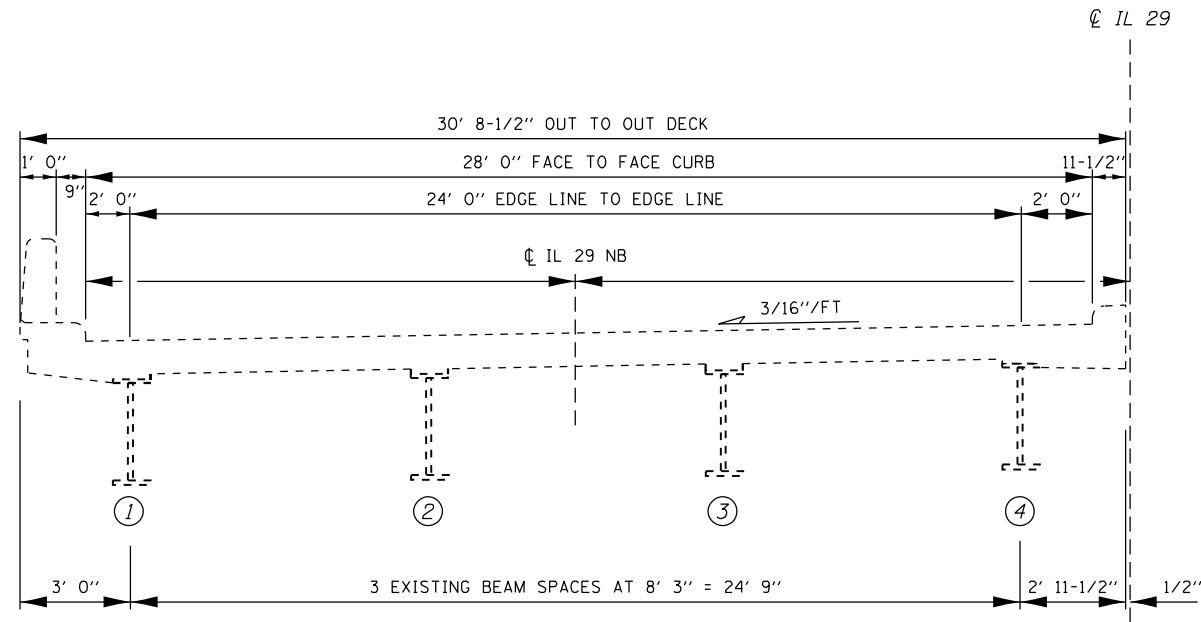
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

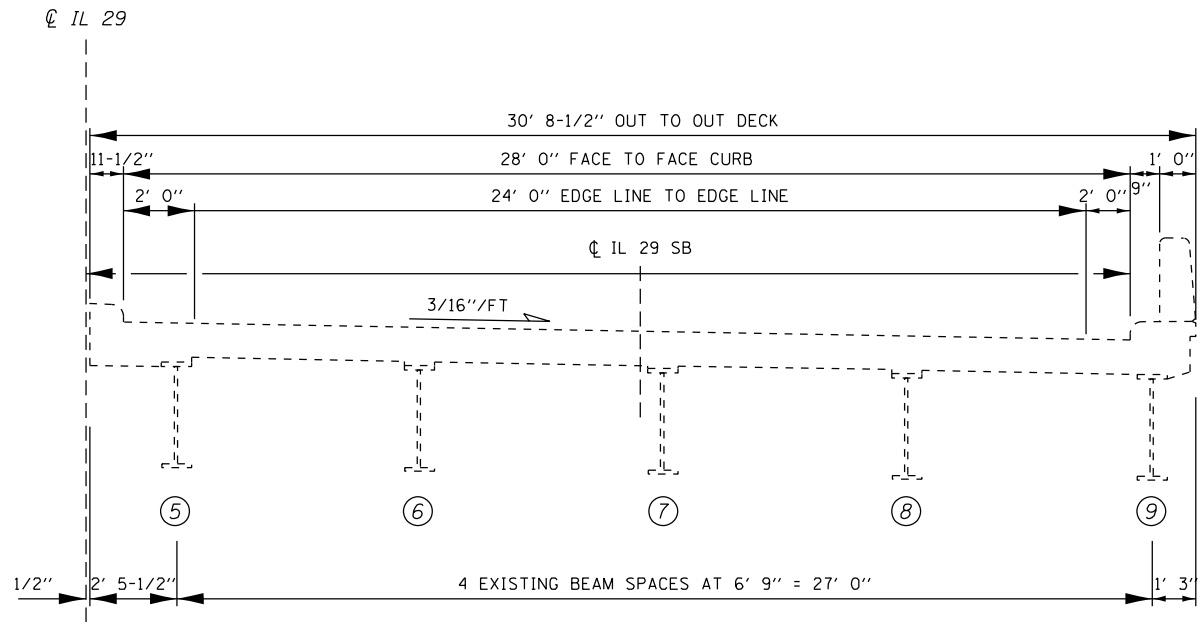
BRIDGE PLAN & ELEVATION
SN 084-0073 & 0178

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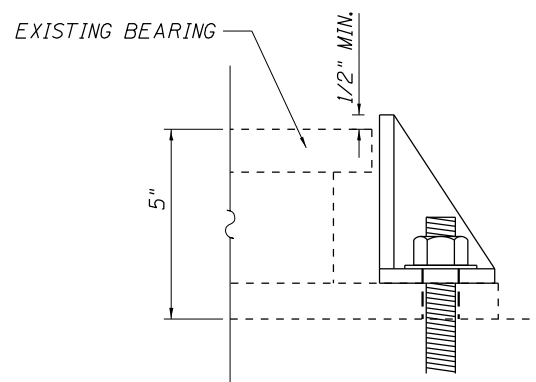
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CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				



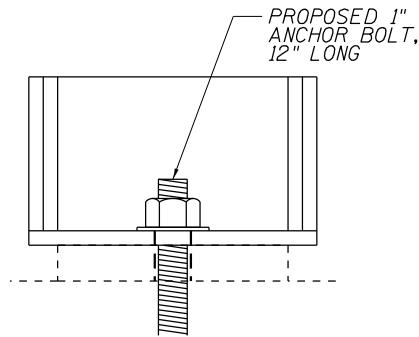
NORTHBOUND CROSS SECTION
LOOKING SOUTH



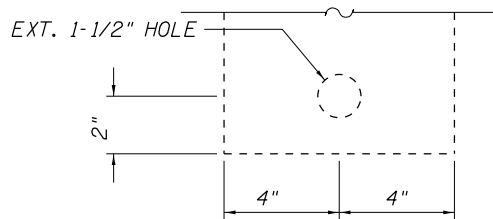
SOUTHBOUND CROSS SECTION
LOOKING SOUTH



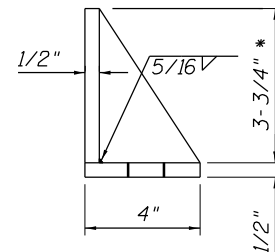
BEARING X-SECTION
(PIER 3, BEAM 7 SOUTH)



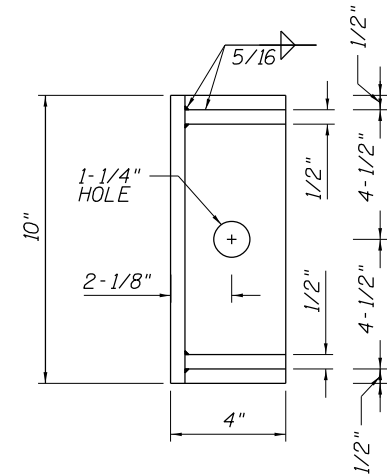
BEARING ELEVATION



EXISTING BOTTOM PLATE PLAN



* FIELD VERIFY PRIOR TO FABRICATION



SIDE RETAINER

- NOTES:
- ANCHOR BOLTS SHALL BE 1" DIA. ASTM F1554 GRADE 55 ALL-THREAD (OR AN ENGINEER-APPROVED ALTERNATE MATERIAL).
 - DRILLED AND SET ANCHOR BOLTS SHALL BE INSTALLED ACCORDING TO ARTICLE 521.06 OF THE STANDARD SPECIFICATIONS.
 - REMAINS OF EXISTING ANCHOR BOLT SHALL BE REMOVED DURING CONCRETE REPAIRS IN THIS LOCATION, PRIOR TO THE PLACEMENT OF THE NEW ANCHOR BOLT. SEE SHEET 4 OF 9.

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTION & ANCHOR BOLT REPAIR DETAIL
SN 084-0073 & 0178**

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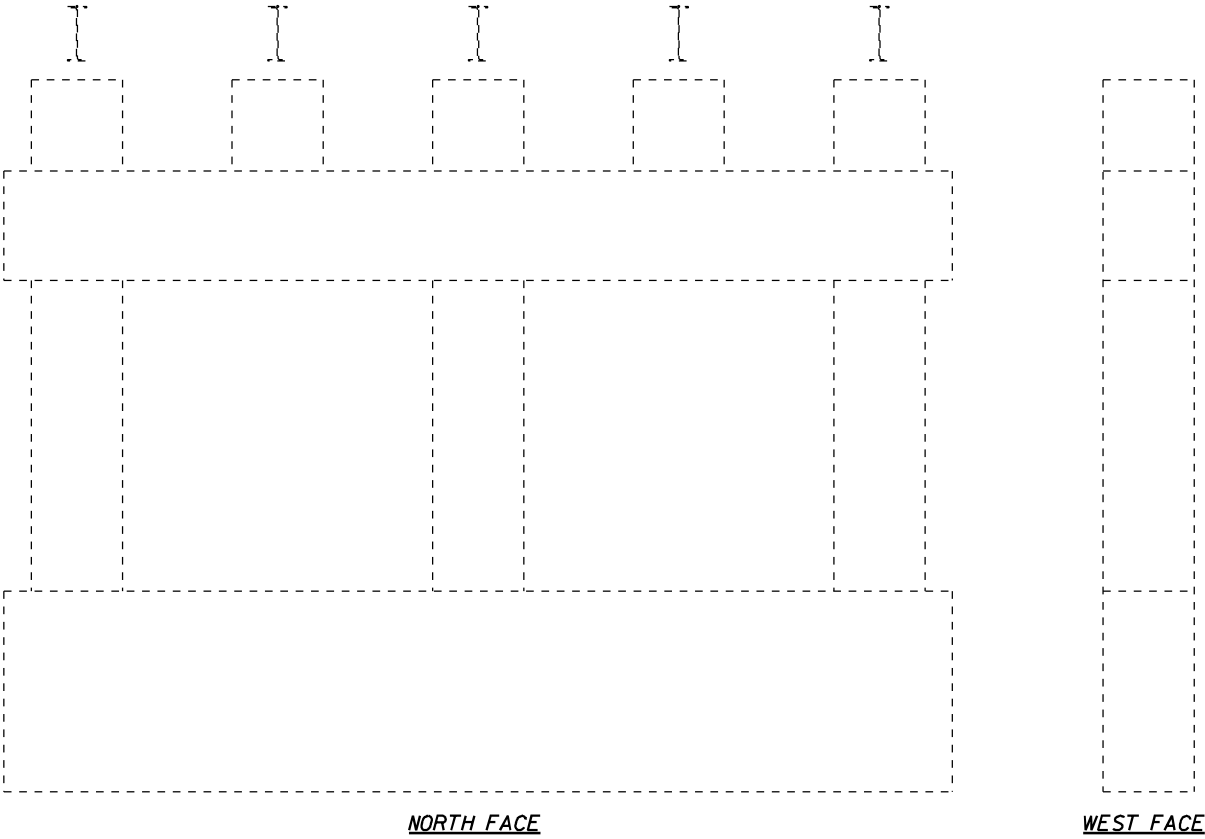
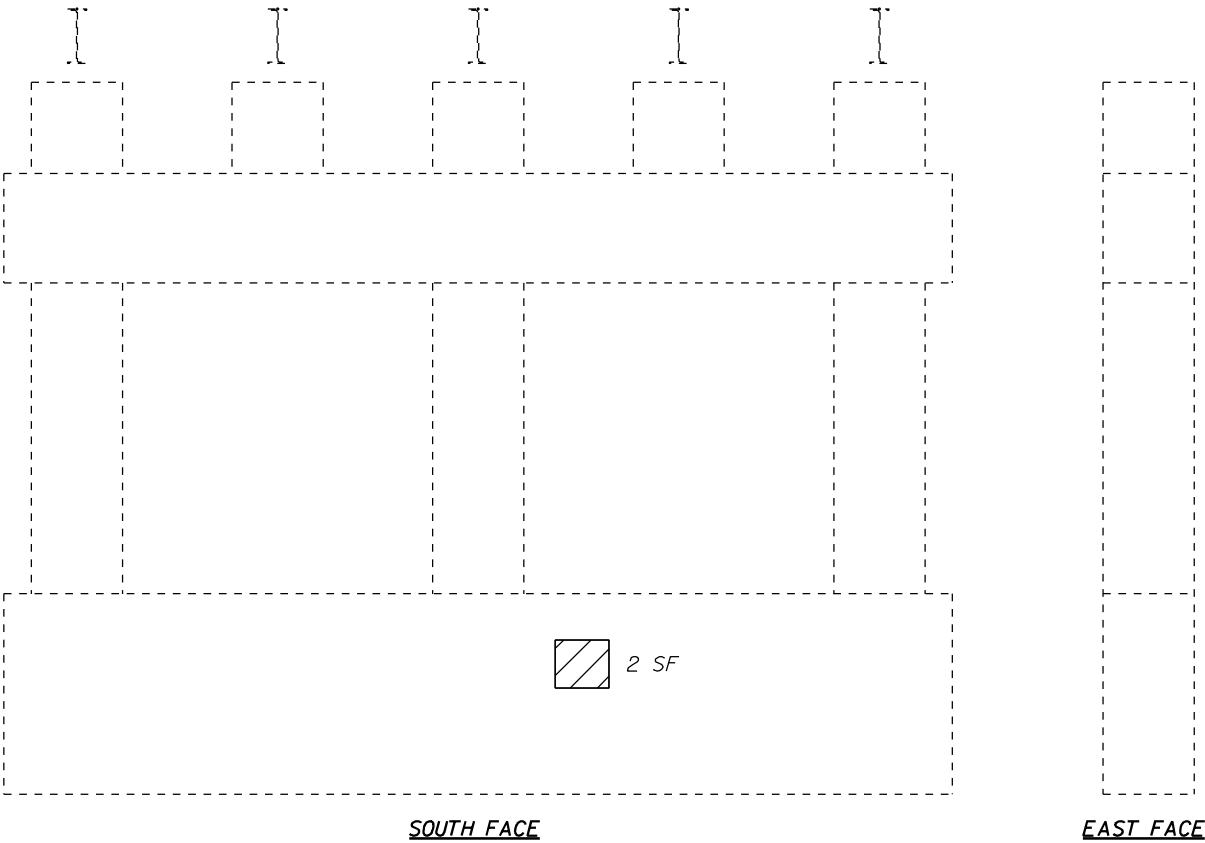
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668	28VBR-BRR	SANGAMON	12	5
CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				

SUBSTRUCTURE REPAIR SCHEDULE				
SUBSTR. UNIT	STR. REP. CONC. DEPTH =< 5" (SQ FT)	CONCRETE STRUCTURES (CU YD)	REINF. BAR (EPOXY CTD.) (POUND)	TEMP. SHORING AND CRIBBING
N. ABUT. (SB)	0	0	0	0
PIER 1 (SB)	2	0	0	0
PIER 2 (SB)	41	0	0	0
PIER 3 (SB)	89	12	2270	1
PIER 4 (SB)	2	0	0	0
PIER 5 (SB)	35	0	0	0
S. ABUT. (SB)	9	0	0	0
N. ABUT. (NB)	28	0	0	0
PIER 1 (NB)	45	0	0	2
PIER 2 (NB)	0	0	0	0
PIER 3 (NB)	2	0	0	0
PIER 4 (NB)	6	0	0	0
S. ABUT. (NB)	4	0	0	0
TOTALS	263	12	2270	3

BEAM REACTION TABLE AT TEMPORARY SHORING (SEE SPECIAL PROVISIONS)		
LOCATION	P1 NB	P3 SB
DEAD LOAD	115.6 KIPS	16.6 KIPS
LIVE LOAD	65.4 KIPS	33.9 KIPS
IMPACT	16.3 KIPS	9.9 KIPS
TOTAL	197.3 KIPS	50.4 KIPS

 STRUCTURAL REPAIR OF CONCRETE AREAS

 CONCRETE ENCASEMENT AREAS



PIER 1 SB ELEVATIONS

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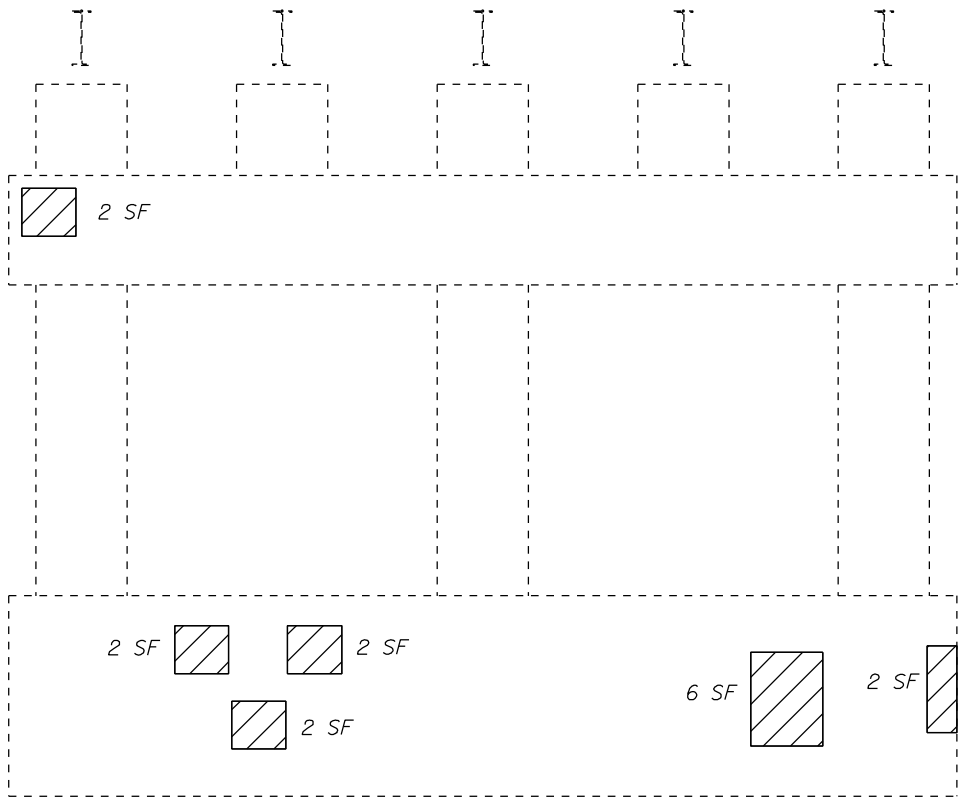
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
SN 084-0073 & 0178

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

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CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				

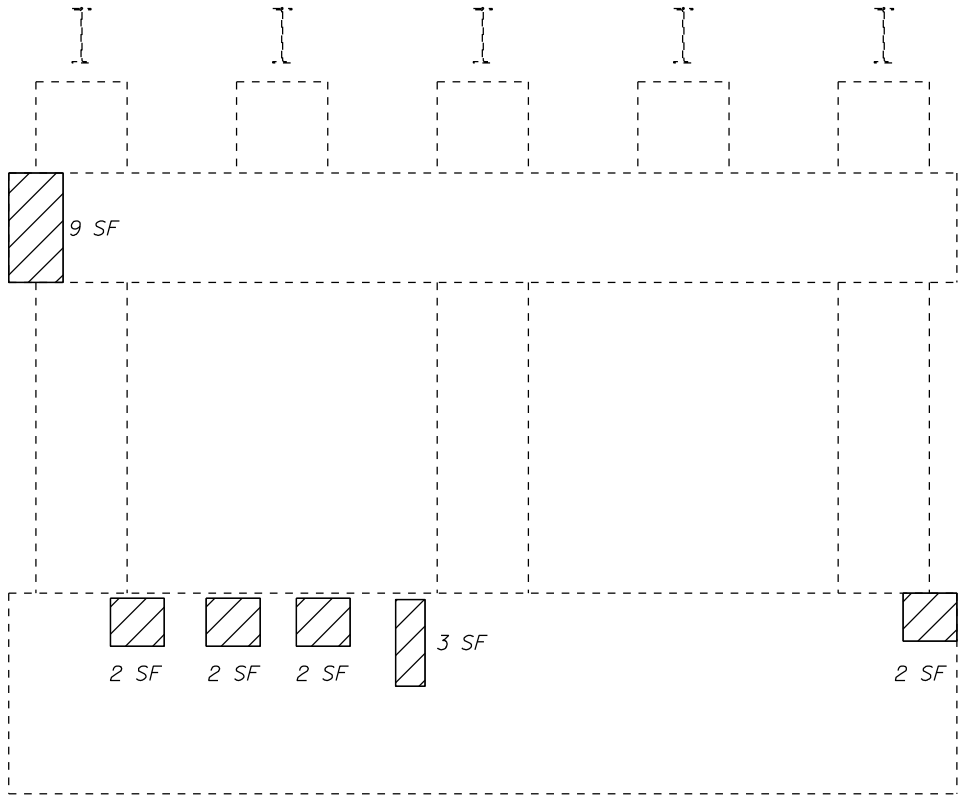
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SOUTH FACE



EAST FACE

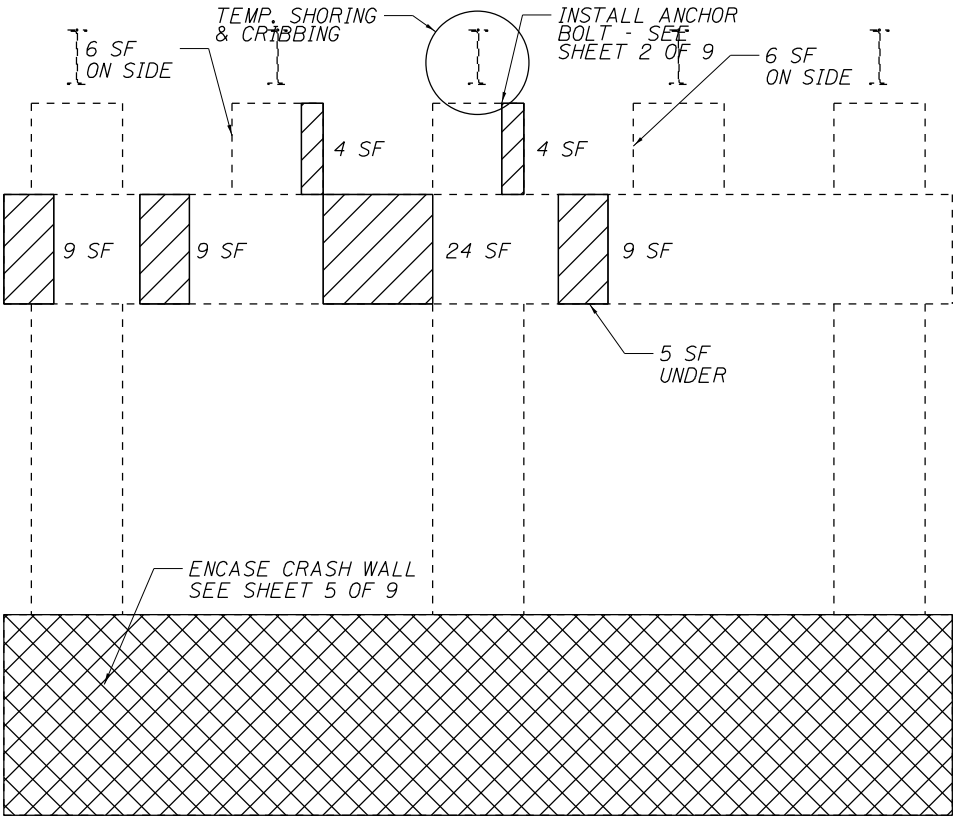


NORTH FACE



WEST FACE

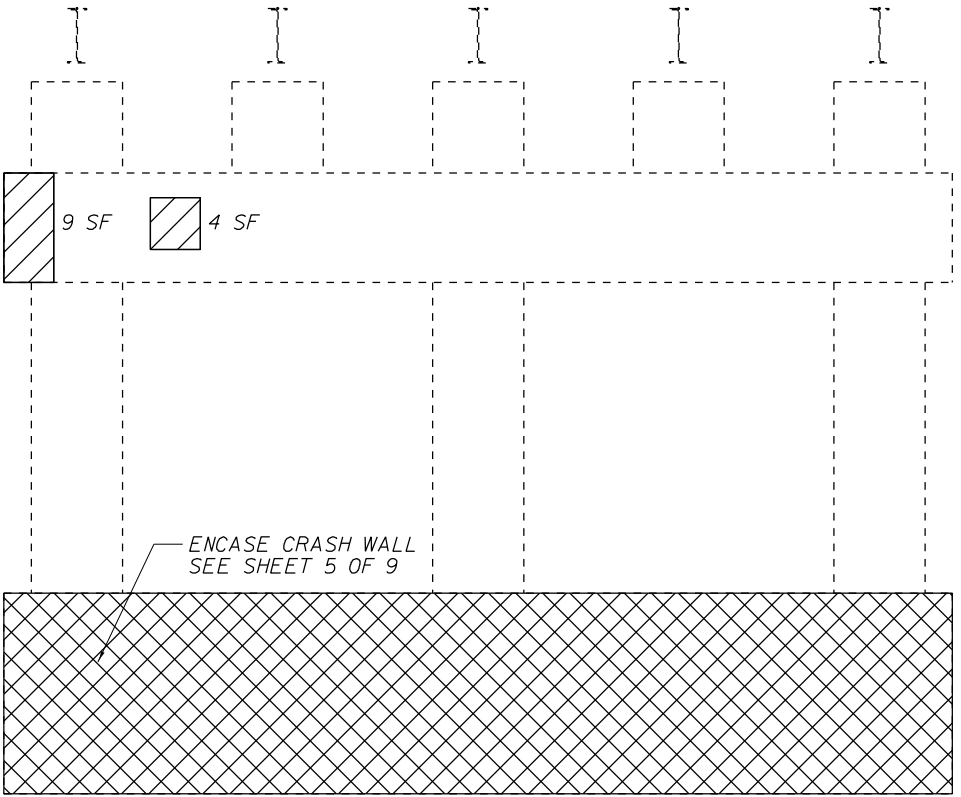
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SOUTH FACE



EAST FACE



NORTH FACE



WEST FACE

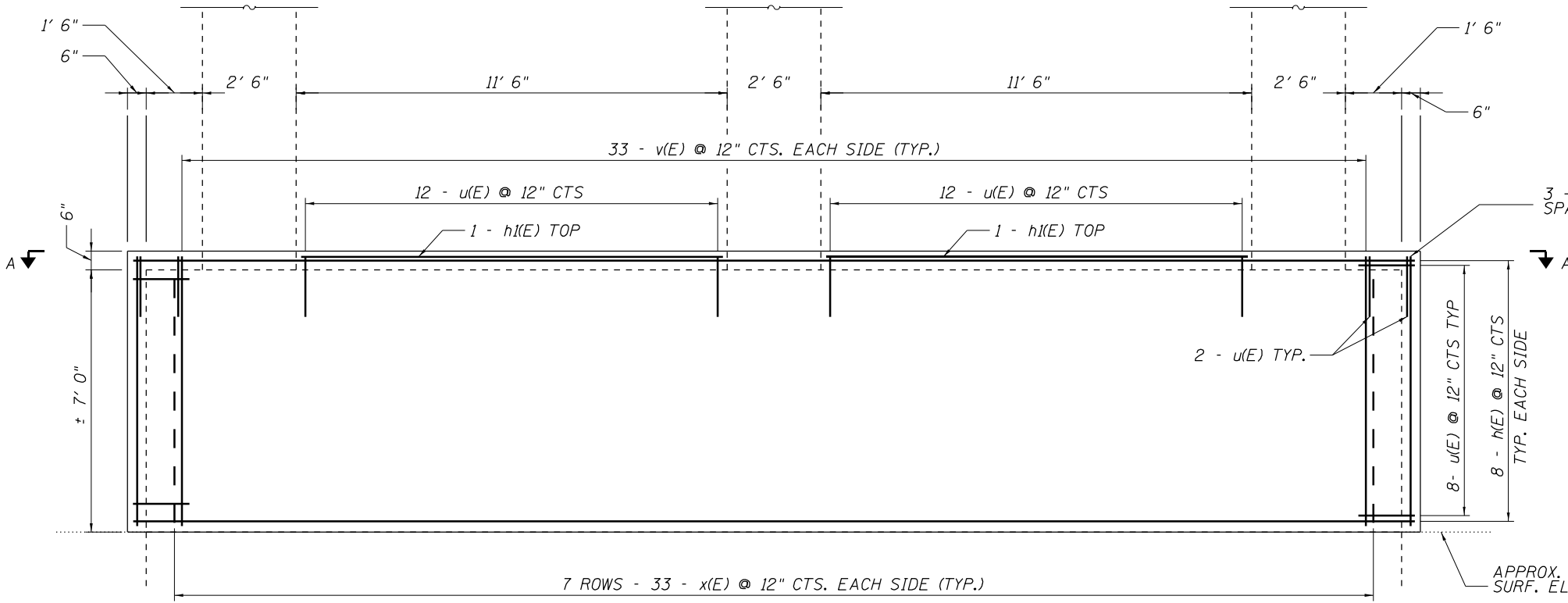
PIER 3 SB ELEVATIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

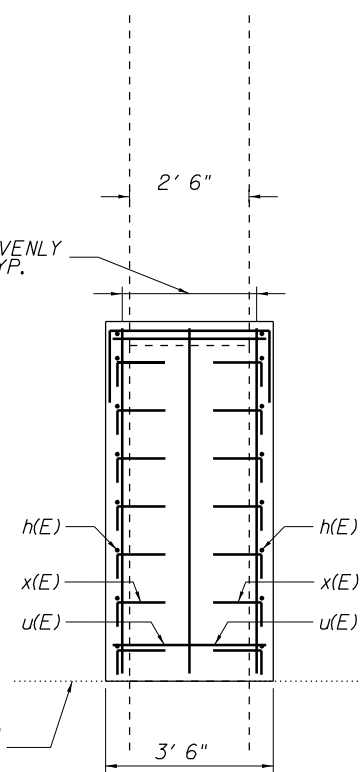
SUBSTRUCTURE REPAIRS
SN 084-0073 & 0178

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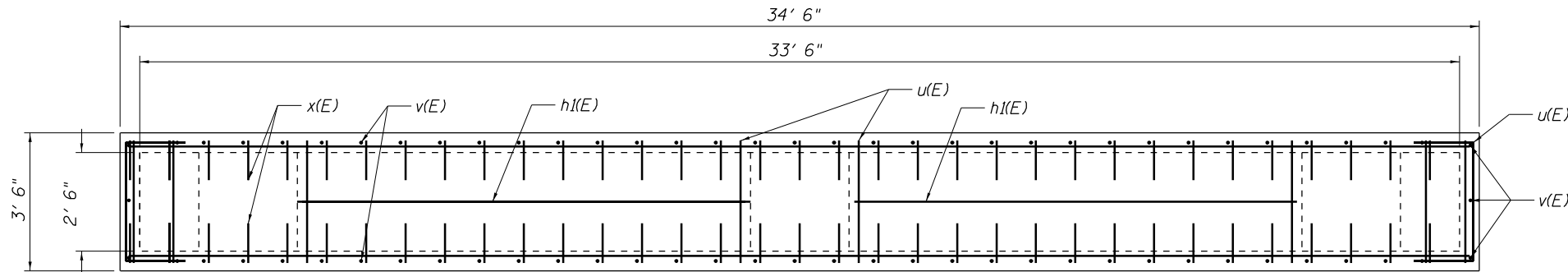
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CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				



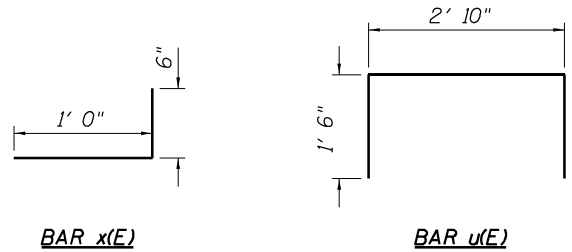
P3 (SB) ELEVATION



END VIEW



SECTION A-A



NOTES: REMOVAL OF UNSOUND CONCRETE, SURFACE PREPARATION, AND REINFORCEMENT PREPARATION SHALL CONFORM TO THE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE. COST TO BE INCLUDED IN THE BID PRICE FOR CONCRETE STRUCTURES.

PIER ENCASEMENT SHALL EXTEND FROM APPROXIMATELY THE EXISTING GROUND SURFACE TO 6" ABOVE THE EXISTING TOP OF PIER CRASH WALL AND SHALL BE A MINIMUM 7' 6" TALL.

EPOXY GROUT x(E) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECS.

P3 CRASH WALL BILL OF MATERIAL				
BAR	#	SIZE	LENGTH	SHAPE
h(E)	16	#5	34' 2"	—
h(E)	2	#5	11' 2"	—
u(E)	44	#5	5' 10"	□
v(E)	72	#5	7' 2"	—
x(E)	462	#5	1' 6"	└
REINFORCEMENT BARS (EPOXY COATED)			POUND	2120
CONC. STRUCTURES			CU YD	12

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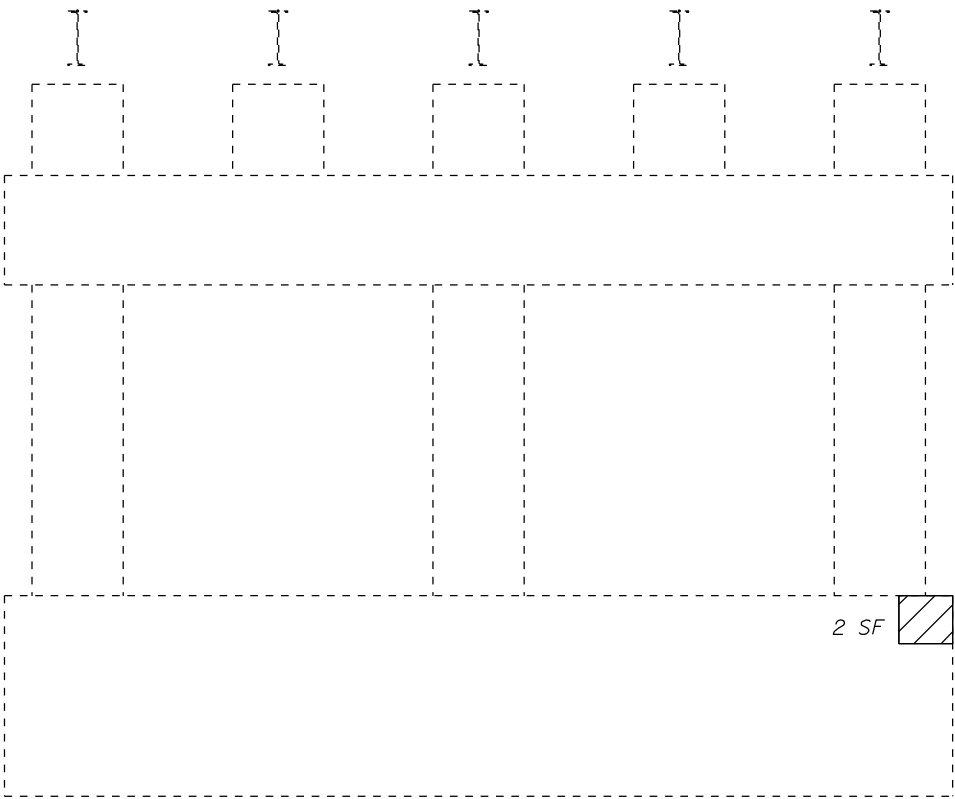
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
SN 084-0073 & 0178

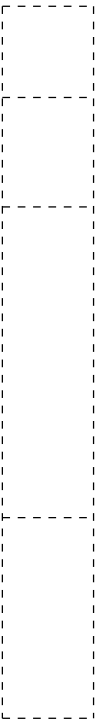
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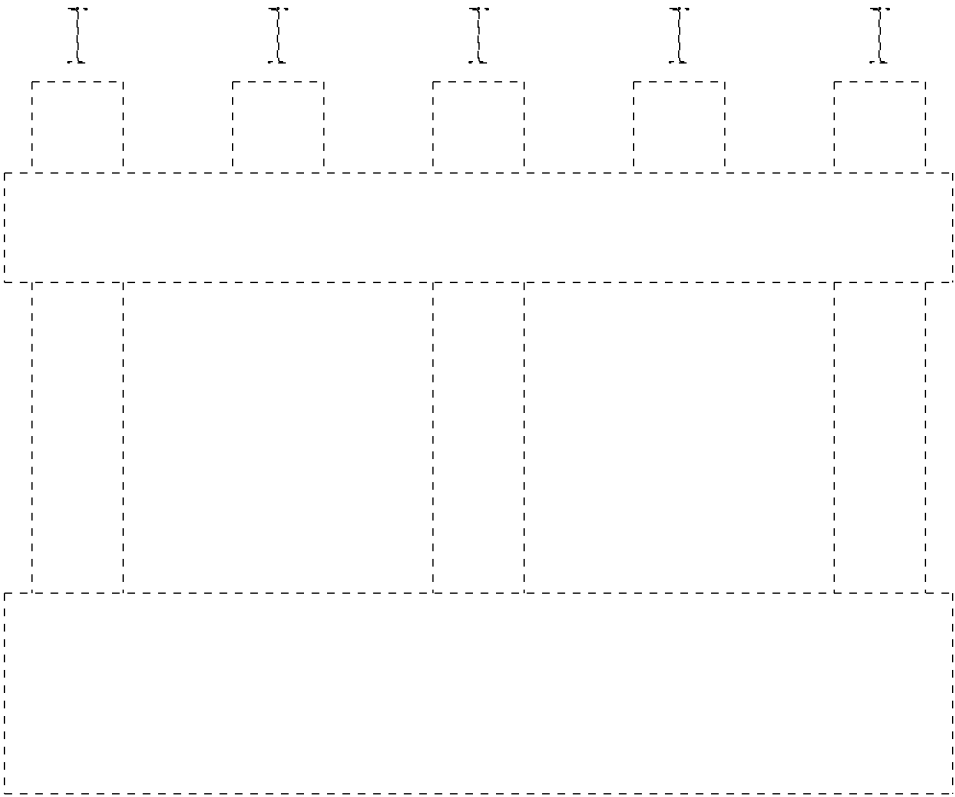
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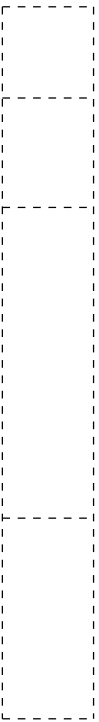
SOUTH FACE



EAST FACE

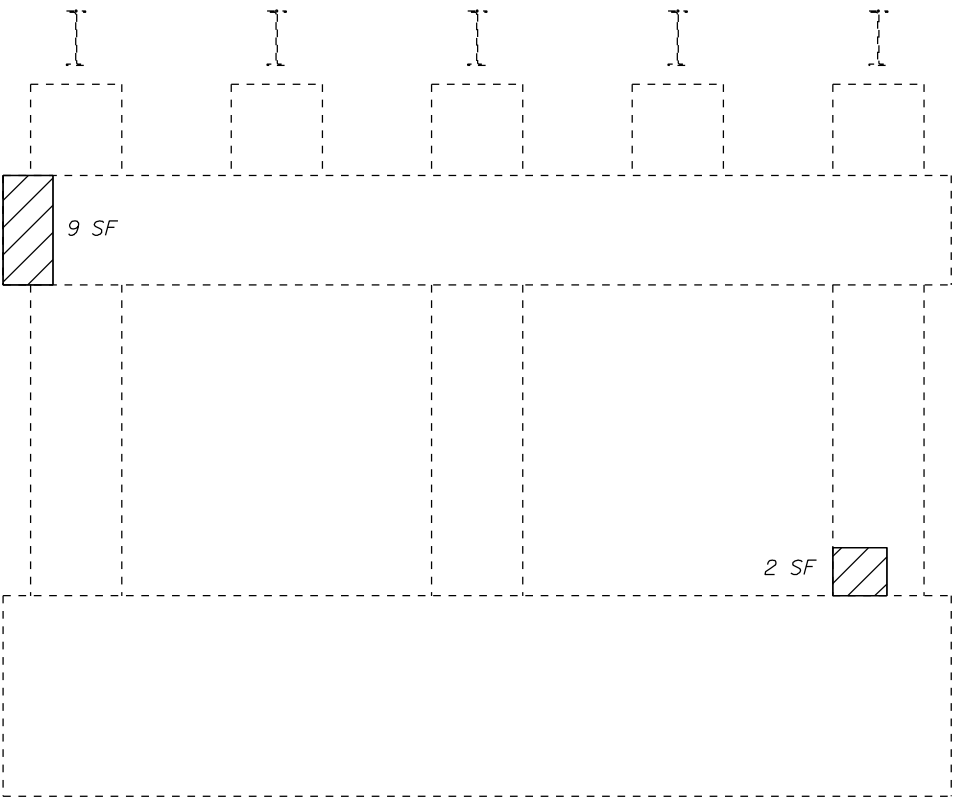


NORTH FACE



WEST FACE

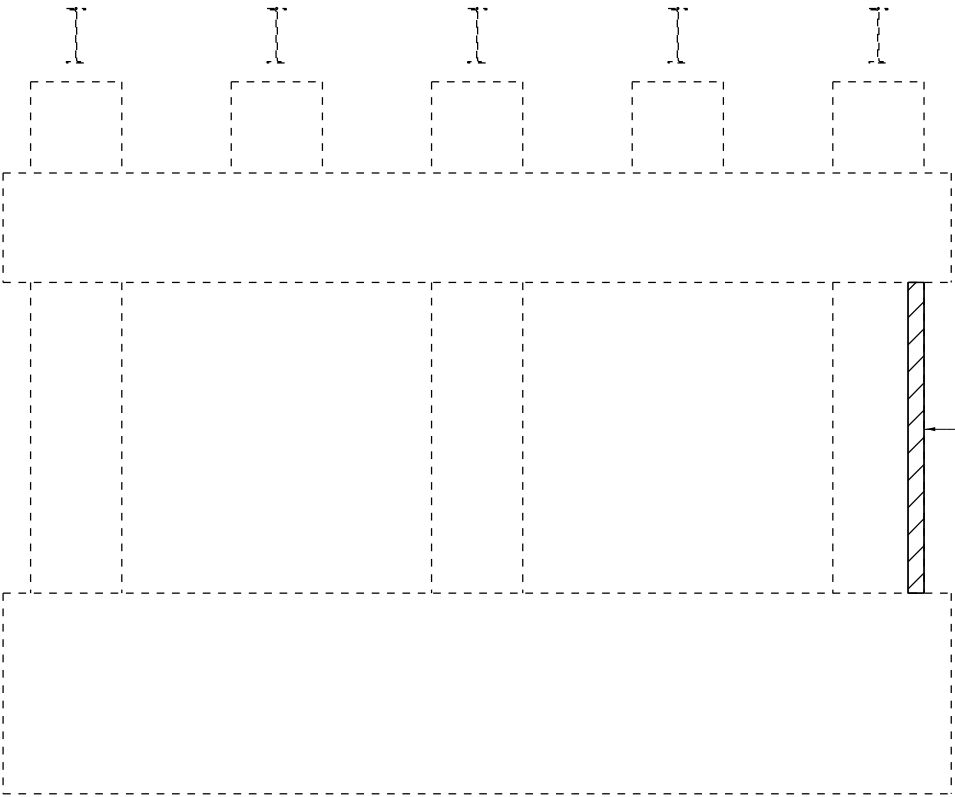
PIER 4 SB ELEVATIONS



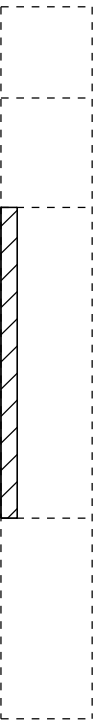
SOUTH FACE



EAST FACE



NORTH FACE



WEST FACE

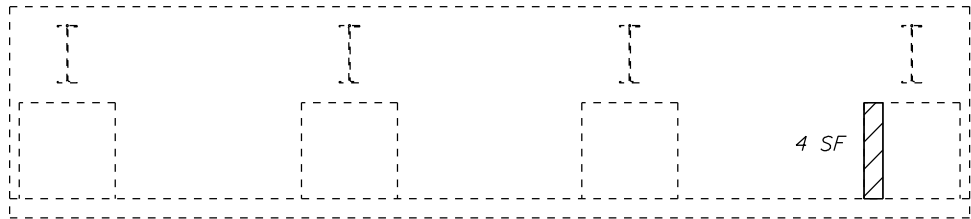
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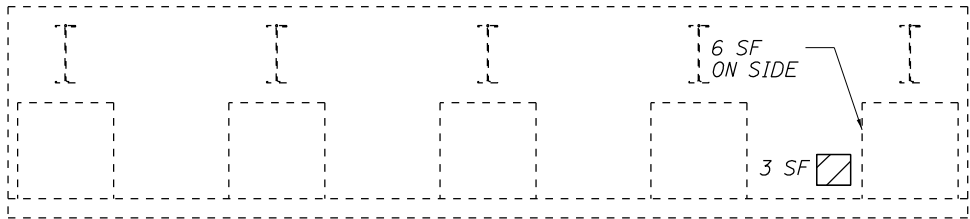
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS SN 084-0073 & 0178			
SCALE:	SHEET 6	OF 9 SHEETS	STA. TO STA.

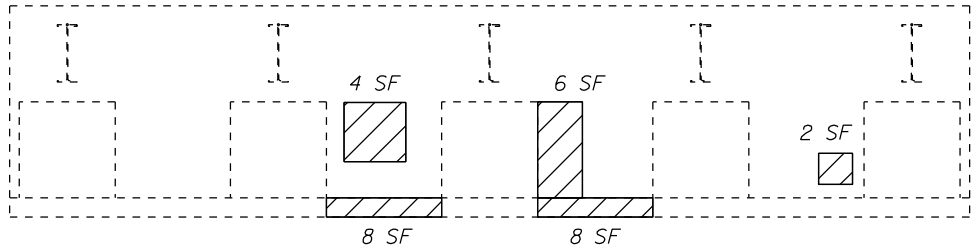
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668	28VBR-BRR	SANGAMON	12	9
CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				



SOUTH ABUT. NB ELEVATION



SOUTH ABUT. SB ELEVATION



NORTH ABUT. NB ELEVATION

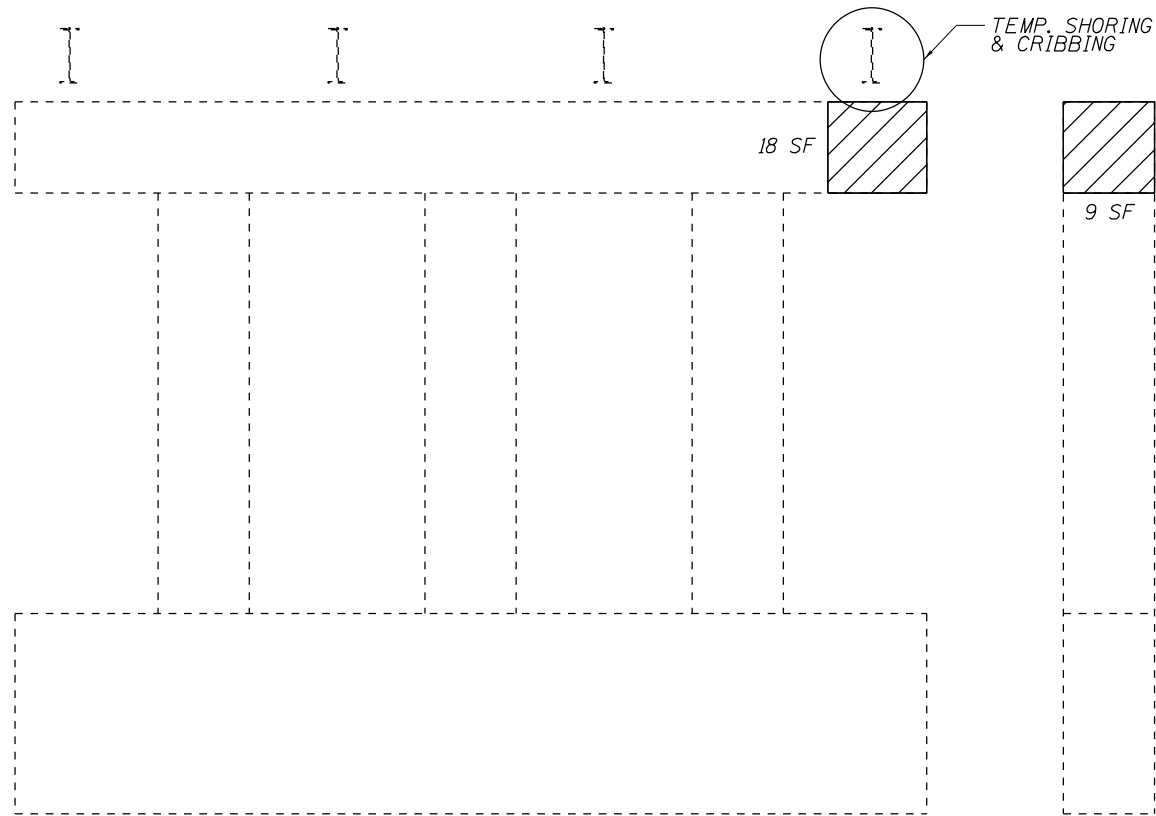


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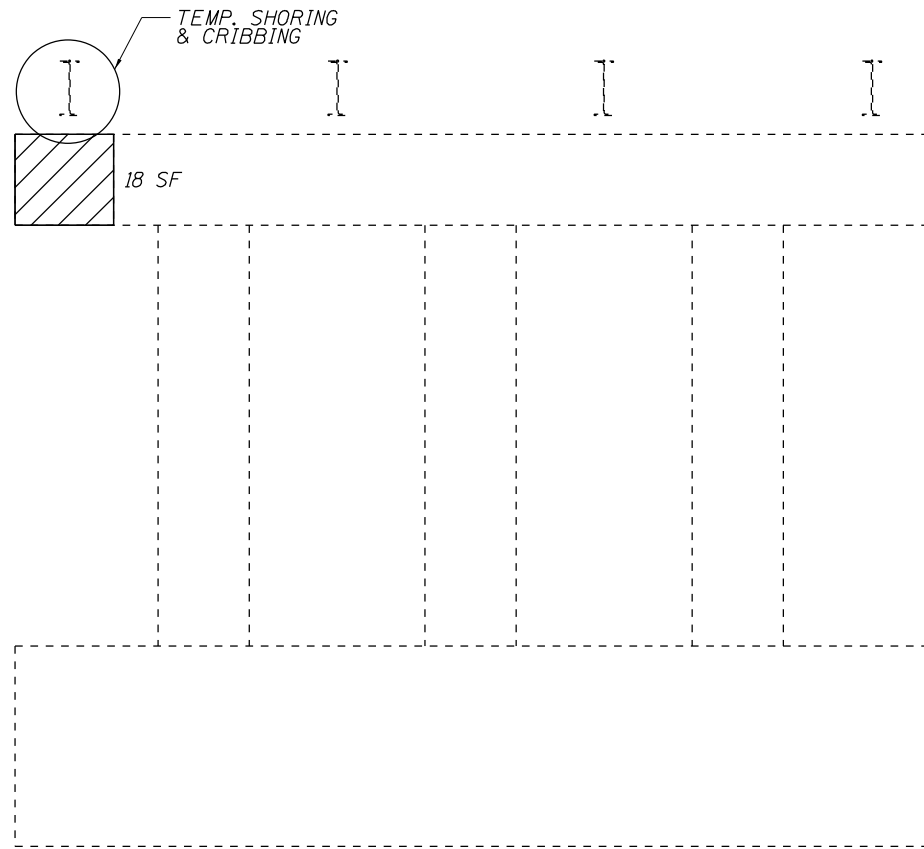
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		DRAWN -	REVISED -					668	28VBR-BRR	SANGAMON	12	10
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 72715				
	PLOT DATE = 8/23/2025	DATE -	REVISED -		SCALE:	SHEET 7	OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\Bridges\BridgesPlans_CAD\72715 - 0840073 & 0178 sub repairs\subsheet.dgn



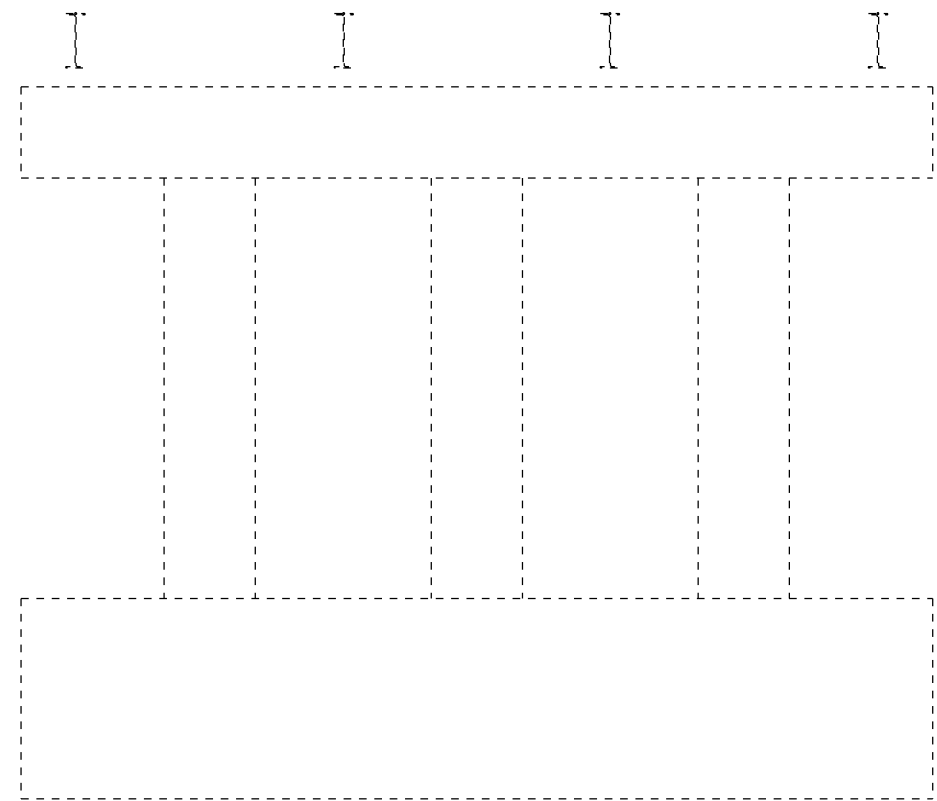
SOUTH FACE

EAST FACE



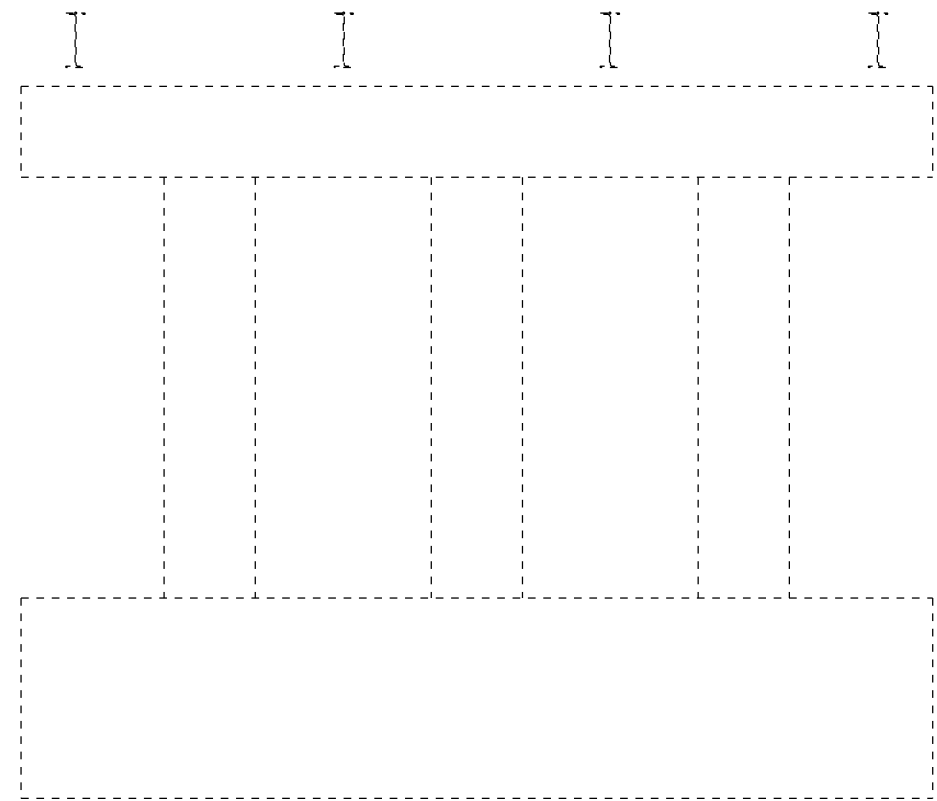
NORTH FACE

WEST FACE



SOUTH FACE

EAST FACE



NORTH FACE

WEST FACE

PIER 1 NB ELEVATIONS

PIER 2 NB ELEVATIONS

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 100,0000 ' / in.	DATE	-	REVISED	-
PLOT DATE	= 8/23/2025				

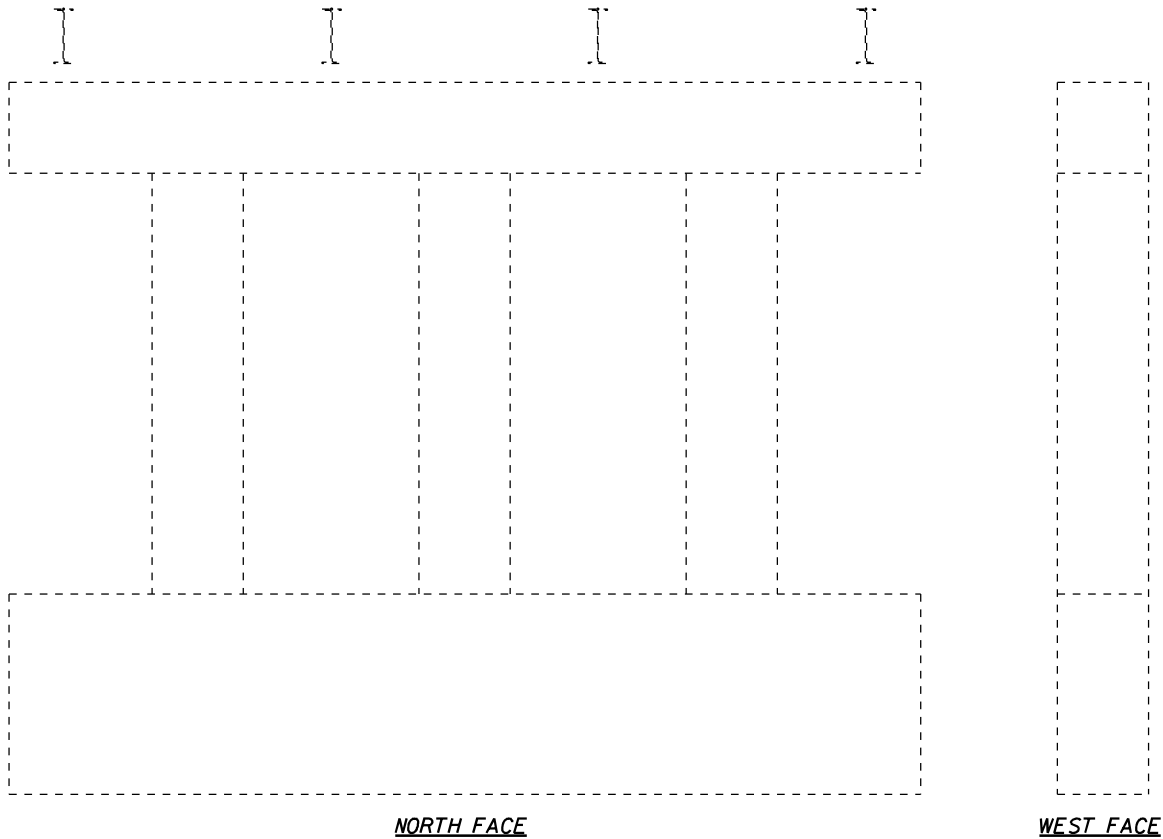
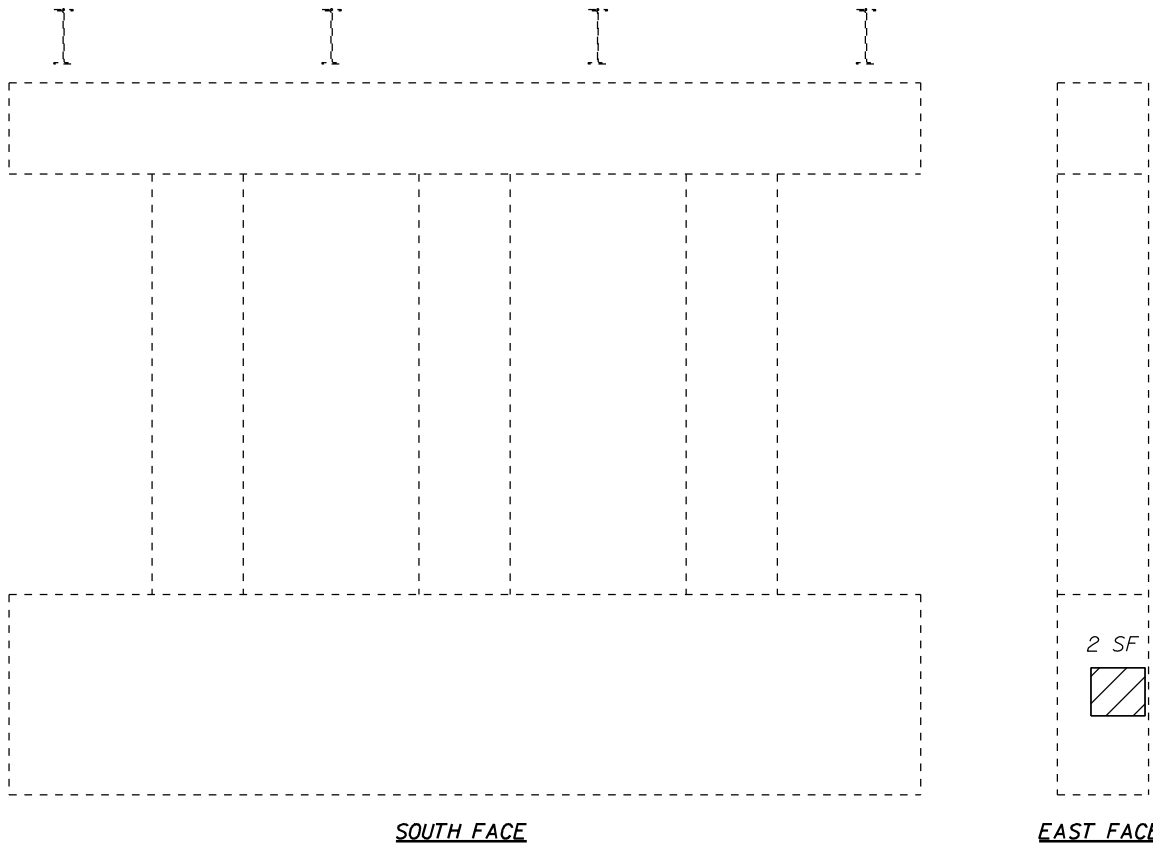
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
SN 084-0073 & 0178

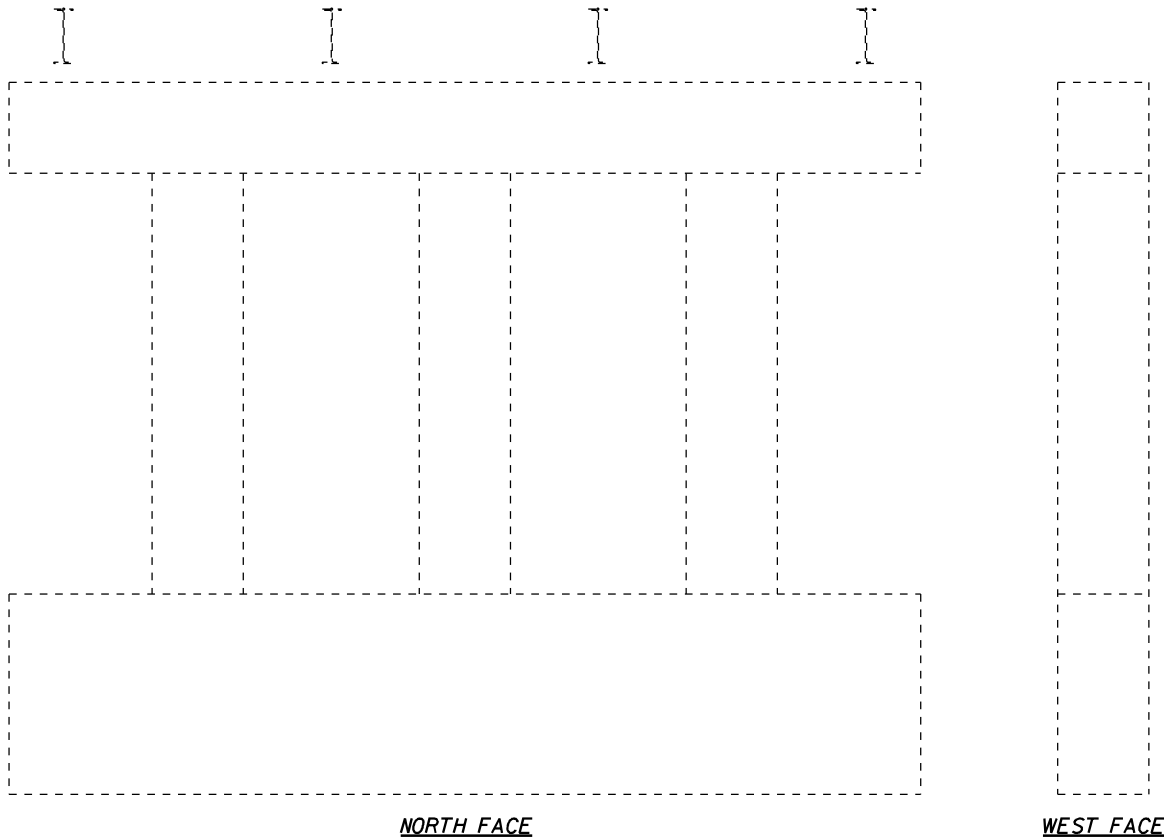
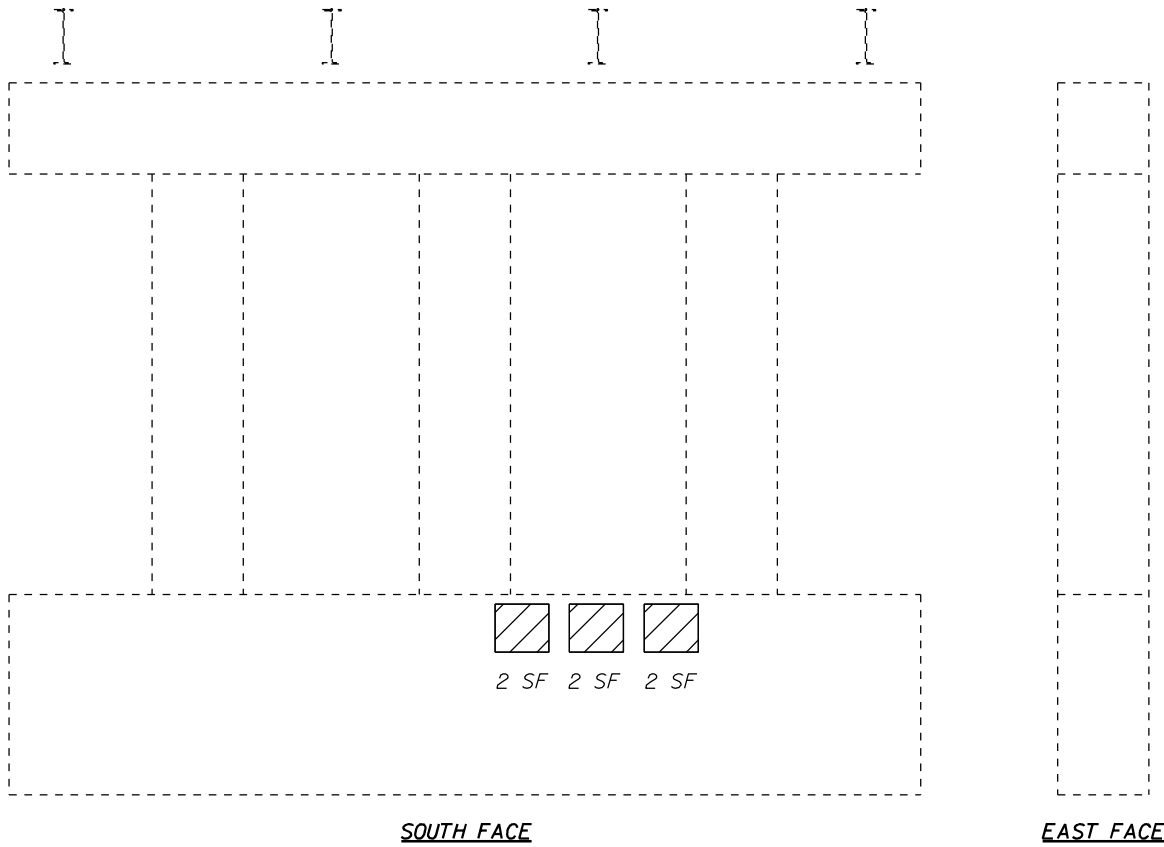
SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	28VBR-BRR	SANGAMON	12	11
CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: S:\Bridges\Bridges.dwg - 0840073 & 0178 sub repairs\subsheet.dwg



PIER 3 NB ELEVATIONS



PIER 4 NB ELEVATIONS

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 100,0000 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 8/23/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS SN 084-0073 & 0178			
SCALE:	SHEET 9	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	28VBR-BRR	SANGAMON	12	12
CONTRACT NO. 72715				
ILLINOIS FED. AID PROJECT				