

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
820 & 836	(22)BR-1,(115)BR-1	ILLINOIS	36*	1
			CONTRACT NO. 70H62	
			* 36 + 2 = 38 TOTAL SHEETS	* DOUGLAS & EDGAR

D-95-004-26



LOCATION OF SECTION INDICATED THUS: - ■ -

PROPOSED HIGHWAY PLANS

FAP ROUTE 820 (IL-130) & 836 (IL-49)
SECTION (22)BR-1,(115)BR-1
PROJECT
BRIDGE DECK REPAIRS
DOUGLAS & EDGAR COUNTY

C-95-048-25

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DOUGLAS CO.

CURRENT TRAFFIC DATA
FAP 820 (IL 130)

2024 ADT = 2,000
2044 ADT = 2,000

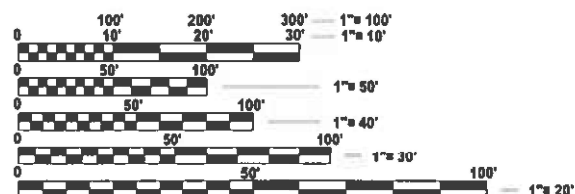
DESIGN DESIGNATION
MINOR ARTERIAL

EDGAR CO.

CURRENT TRAFFIC DATA
FA9 836 (IL 49)

2024 ADT = 675
2044 ADT = 682

DESIGN DESIGNATION
MINOR ARTERIAL



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.

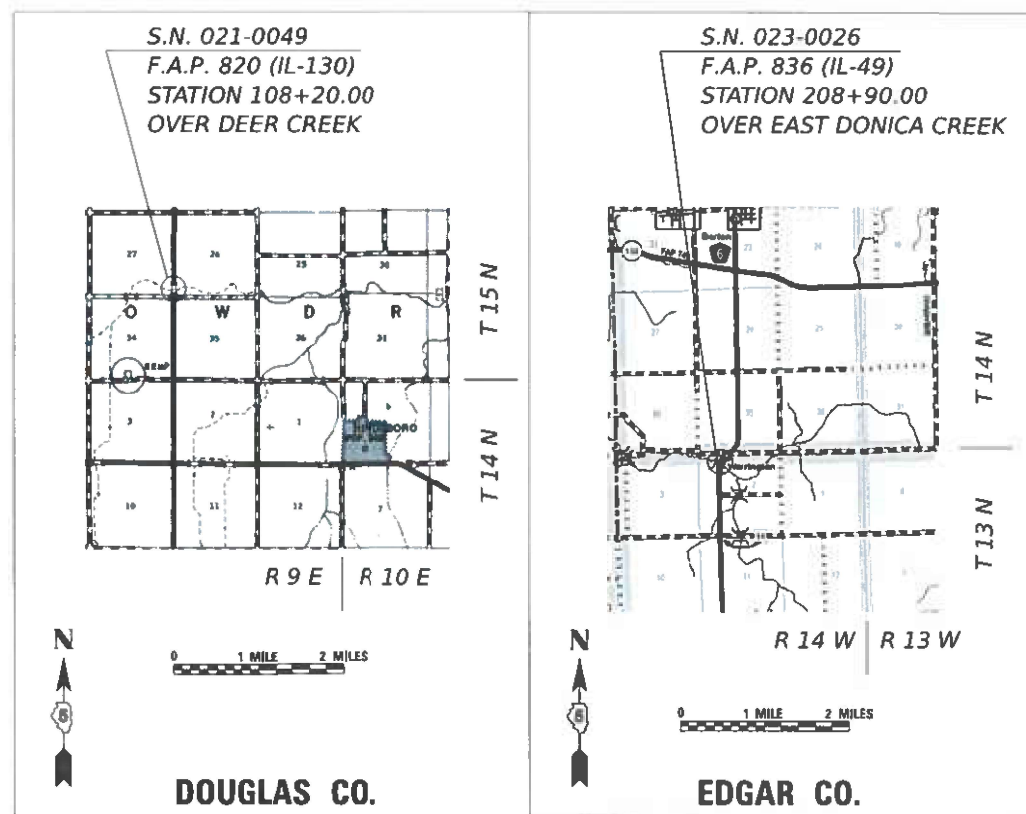
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

TOWNSHIP:

S.N. 021-0049 BOWDRE
S.N. 023-0026 KANSAS

PROJECT ENGINEER: TIM J. BRANDENBURG
PROJECT MANAGER: ERIC S. SHAWLER
PHONE: (217) 465-4181

CONTRACT NO. 70H62



GROSS LENGTH = N/A FT. = N/A MILE
NET LENGTH = N/A FT. = N/A MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1/21 2025

Kensel A. Barnette
REGIONAL ENGINEER

January 23, 2026

Eric S. Shawler
ENGINEER OF DESIGN AND ENVIRONMENT

January 23, 2026

Tim J. Brandenburg
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
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7-18	S.N. 021-0049 STRUCTURE PLANS
19	S.N. 023-0026 CONCRETE BARRIER LAYOUT
20-32B	S.N. 023-0026 STRUCTURE PLANS
33-35	WIDTH RESTRICTION SIGNS
36	TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & STREET CLOSURE)

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	IL 130	IL 130
Mixture Use	Base Course Option	Base Course Option
	Bottom Binder	Surface (top 1-1/2")
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 19.0	IL 9.5
Friction Aggregate	N.A.	Mix C
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	3000	3000
Material Transfer Device (Required)	NO	NO

SEE R.E. FILE FOR CALCULATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
D5-70200000	TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDE ROAD / STREET CLOSURES)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHEET INDEX, STANDARDS, GENERAL NOTES
S.N. 021-0049 & S.N. 023-0026**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	2
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

DOUGLAS CO. & EDGAR CO.	
FAP 820 (IL-130) / FAP 836 (IL-49)	
RURAL / TWO-LANE	
BRIDGE	
100% STATE	
0047	
STATION	STATION
108+20.00	208+90.00

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 021-0049 QUANTITY	S.N. 023-0026 QUANTITY
20200100	EARTH EXCAVATION	CU YD	54.0	54.0	0.0
50102400	CONCRETE REMOVAL	CU YD	32.3	23.0	9.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	50.8	41.6	9.2
50300300	PROTECTIVE COAT	SQ YD	95.0	69.0	26.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,530.0	0.0	3,530.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,300.0	5,150.0	1,150.0
50800515	BAR SPLICERS	EACH	76.0	52.0	24.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	36.0	0.0	36.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	5.0	0.0	5.0
52100520	ANCHOR BOLTS, 1"	EACH	20.0	0.0	20.0
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	31.2	31.2	0.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0	3.0	3.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5

* SPECIALTY ITEMS

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PLOT DATE = 11/21/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N. 021-0049 & S.N. 023-0026

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	3
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR
REV. 1/29/26

DOUGLAS CO. & EDGAR CO.	
FAP 820 (IL-130) / FAP 836 (IL-49)	
RURAL / TWO-LANE	
BRIDGE	
100% STATE	
0047	
STATION	STATION
108+20.00	208+90.00

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 021-0049 QUANTITY	S.N. 023-0026 QUANTITY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2.0	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.7	0.3
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2.0	1.0	1.0
70106700	TEMPORARY RUMBLE STRIPS	EACH	12.0	12.0	0.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	637.5	325.0	312.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	637.5	325.0	312.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 30	EACH	4.0	2.0	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	2.0	2.0
X3550101	BASE COURSE (OPTION)	SQ YD	242.0	242.0	0.0
X5051204	STRUCTURAL STEEL REMOVAL	POUND	4,500.0	1,920.0	2,580.0
X5051206	STRUCTURAL STEEL REPAIR	POUND	4,270.0	0.0	4,270.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.5	0.5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	25.6	0.0	25.6

* SPECIALTY ITEMS

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PLOT DATE = 11/21/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

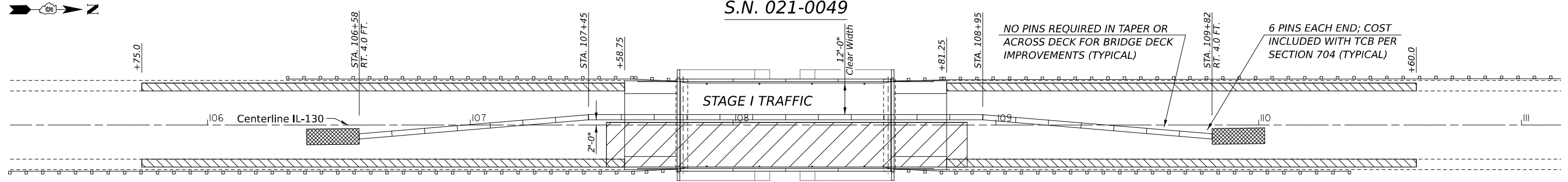
SUMMARY OF QUANTITIES
S.N. 021-0049 & S.N. 023-0026

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	4
820 & 836 ILLINOIS FED. AID PROJECT			CONTRACT NO. 70H62	

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT

S.N. 021-0049



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 OR 701301.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

EARTH EXCAVATION (Pre-Stage) Stage I						
STR. 021-0049						
SIDE	BEGIN STATION	END STATION	LENGTH (FOOT)	WIDTH (FOOT)	DEPTH (FOOT)	REMOVAL (CU YD)
LEFT	105+75	107+58.75	183.75	3.0	0.67	13.68
LEFT	108+81.25	110+60	178.75	3.0	0.67	13.31
						TOTAL 26.99
						PLAN 27.00

BASE COURSE (OPTION) 8" (Pre-Stage) Stage I					
STR. 021-0049					
SIDE	BEGIN STATION	END STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)
LEFT	105+75	107+58.75	183.75	3.0	61.25
LEFT	108+81.25	110+60	178.75	3.0	59.58
					TOTAL 120.83
					PLAN 121.00

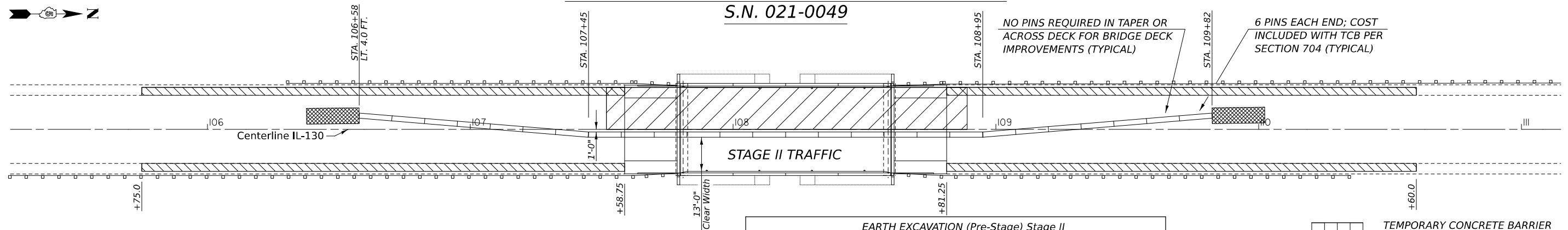
- TEMPORARY CONCRETE BARRIER
- PROPOSED WORK AREA
- IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3
- EARTH EXCAVATION BASE COURSE (OPTION)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	27.0
BASE COURSE (OPTION)	SQ YD	121.0
TEMPORARY CONCRETE BARRIER	FOOT	325.0
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

STAGE II TEMPORARY CONCRETE BARRIER LAYOUT

S.N. 021-0049



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 OR 701301.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

EARTH EXCAVATION (Pre-Stage) Stage II						
STR. 021-0049						
SIDE	BEGIN STATION	END STATION	LENGTH (FOOT)	WIDTH (FOOT)	DEPTH (FOOT)	REMOVAL (CU YD)
RIGHT	105+75	107+58.75	183.75	3.0	0.67	13.68
RIGHT	108+81.25	110+60	178.75	3.0	0.67	13.31
						TOTAL 26.99
						PLAN 27.00

BASE COURSE (OPTION) 8" (Pre-Stage) Stage II					
STR. 021-0049					
SIDE	BEGIN STATION	END STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)
RIGHT	105+75	107+58.75	183.75	3.0	61.25
RIGHT	108+81.25	110+60	178.75	3.0	59.58
					TOTAL 120.83
					PLAN 121.00

- TEMPORARY CONCRETE BARRIER
- PROPOSED WORK AREA
- IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3
- EARTH EXCAVATION BASE COURSE (OPTION)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	27.0
BASE COURSE (OPTION)	SQ YD	121.0
REL. TEMPORARY CONCRETE BARRIER	FOOT	325.0
REL. IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

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PLOT DATE = 9/30/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER LAYOUT
S.N. 021-0049

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	6
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

STRUCTURE NO. 021-0049 BUILT AS FA RTE. 820, CONTRACT 36726 SECTION 22BR IN 1984 AT STATION 108+20. A SINGLE-SPAN STEEL W27X178 BEAM STRUCTURE. A REINFORCED CONCRTE DECK ON SPILL THRU ABUTMENTS SUPORTED BY STEEL METAL SHELL PILES. THE BACK TO BACK ABUTMENTS LENGTH IS 83'-6", AN OUT TO OUT WIDTH OF 35'-2" AND A CLEAR WIDTH OF 32'-0" FACE TO FACE OF PARAPET AND IS NOT SKEWED.

WORK SHALL BE COMPLETED WITH STAGE CONSTRUCTION.

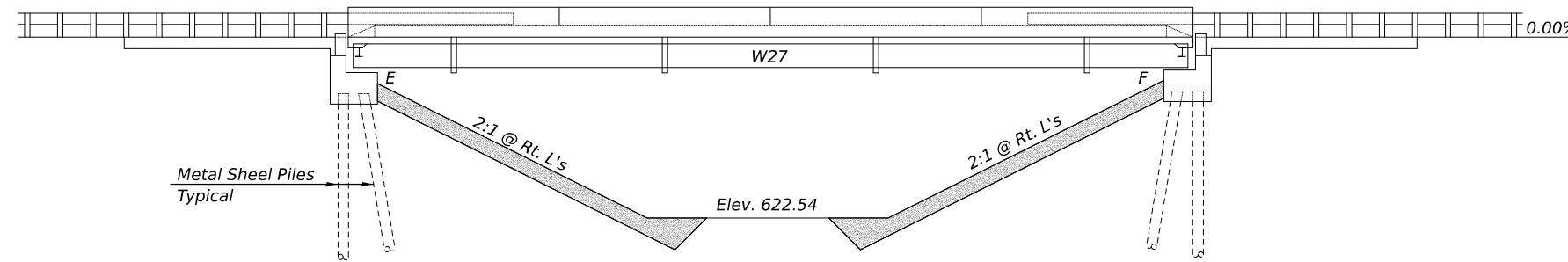
GENERAL PLAN & ELEVATION
S.N. 021-0049

SCOPE OF WORK

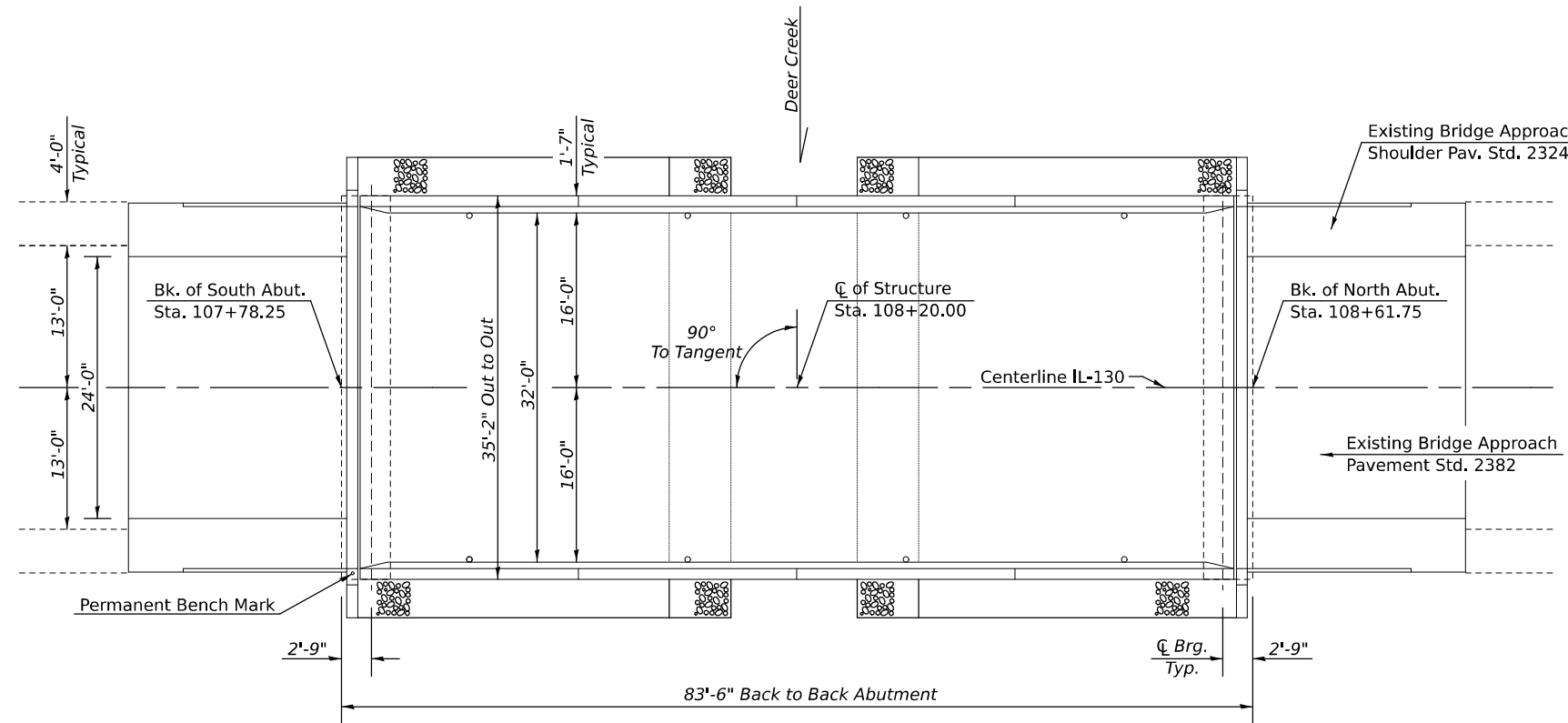
1. CONCRETE REMOVAL FOR JOINT ELIMINATION.
2. STRUCTURAL STEEL REMOVAL AT ABUTMENTS.
3. PERFORM BRIDGE DECK PATCHING (FULL DEPTH).
4. POUR CONCRETE SUPERSTRUCTURE.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	23.0
CONCRETE SUPERSTRUCTURE	CU YD	41.6
REINFORCEMENT BARS, EPOXY COATED	POUND	5,150.0
BAR SPLICERS	EACH	52.0
STRUCTURAL STEEL REMOVAL	POUND	1,920.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	31.2
PROTECTIVE COAT	SQ YD	69.0
PERMANENT BENCH MARKS	EACH	1.0



ELEVATION VIEW



PLAN VIEW

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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.

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.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE UTILIZING PNEUMATIC NEEDLE SCALERS OR BY SAND BLASTING. AREAS CLEANED SHALL BE COATED WITH 2 COATS OF ALUMINUM EPOXY MASTIC ARTICLE 1008.03. THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SUPERSTRUCTURE AS SPECIFIED IN ARTICLE 503.19 OF THE STANDARD SPECIFICATIONS.



Expires November 30, 2026

Justin W. Mann

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 021-0049

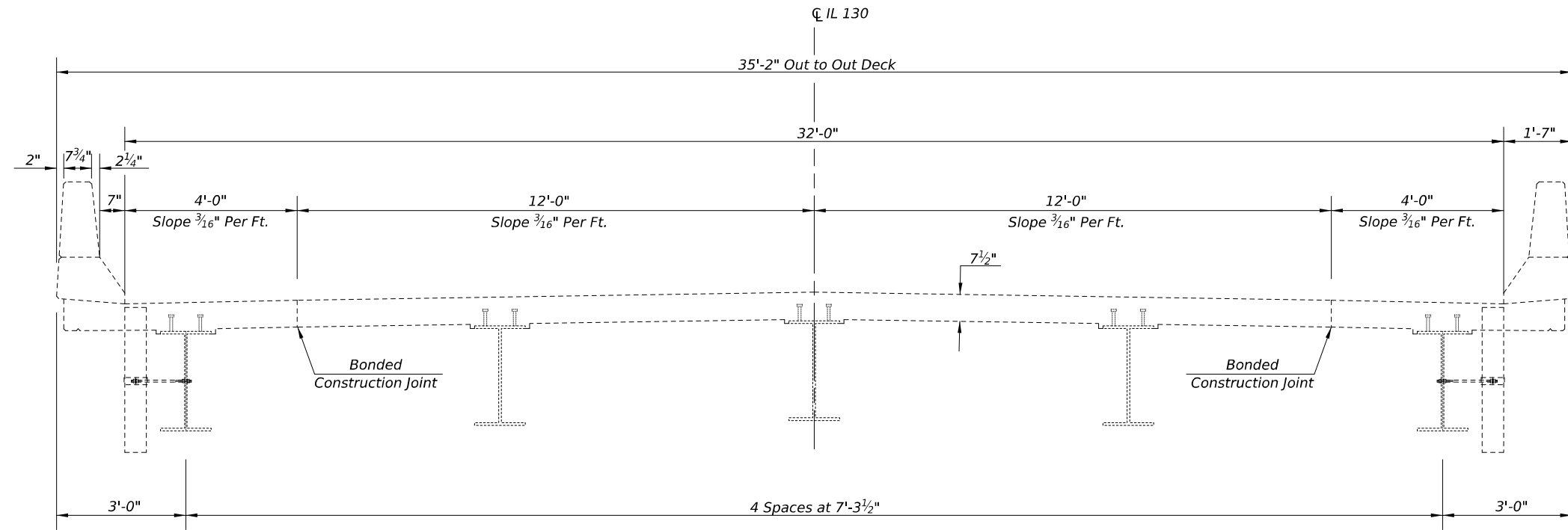
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	(22)BR-1,(115)BR-1		36	7
CONTRACT NO. 70H62				

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

820 & 836 ILLINOIS FED. AID PROJECT

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EXISTING DECK CROSS SECTION
S.N. 021-0049



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK CROSS SECTION
S.N. 021-0049

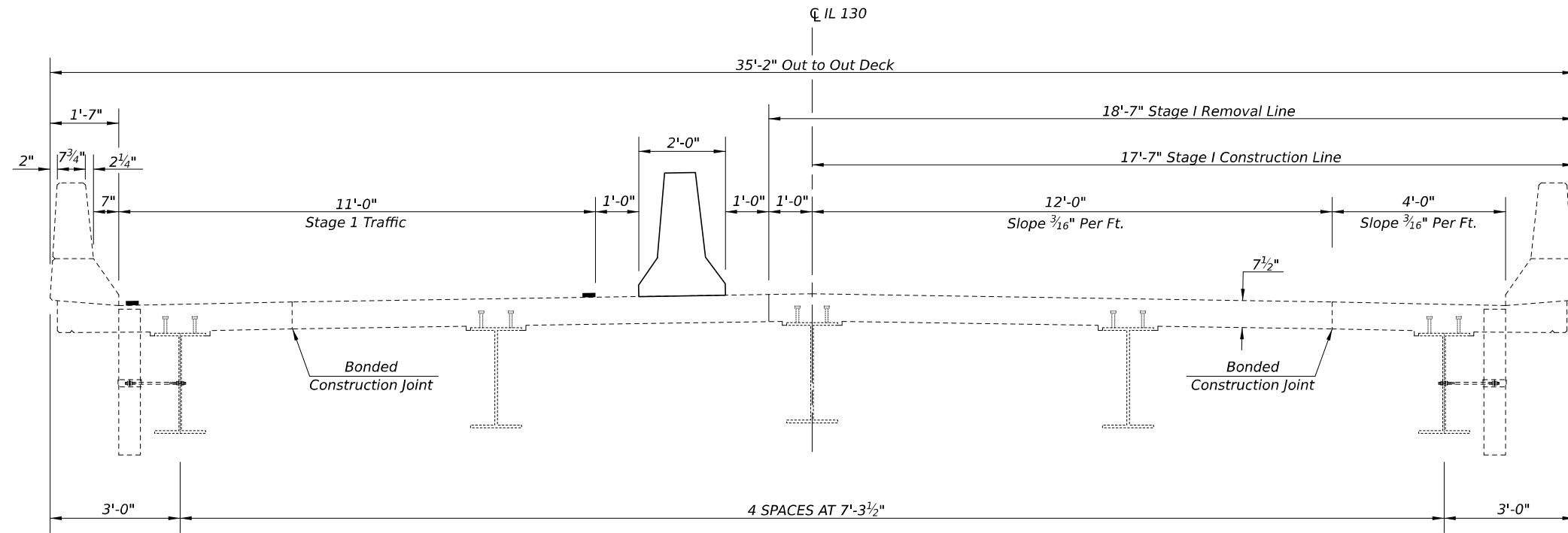
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	8
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

STAGE I CONSTRUCTION DETAILS

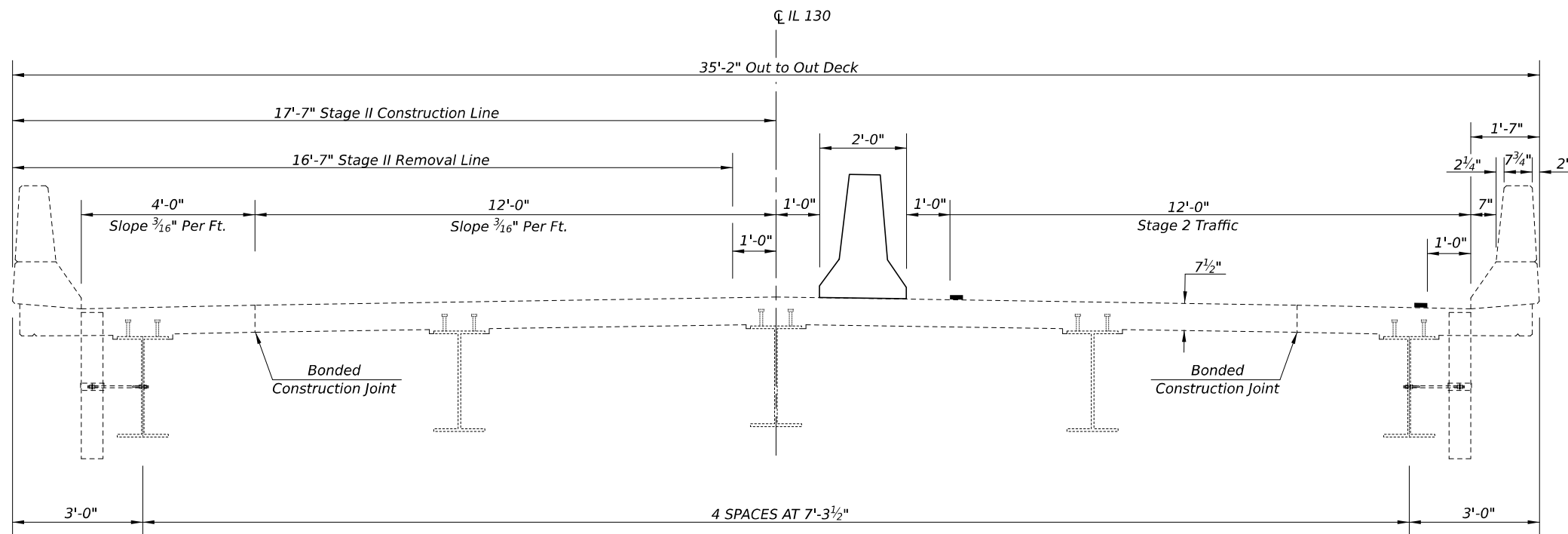
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LOOKING NORTH

STAGE II CONSTRUCTION DETAILS

S.N. 021-0049



LOOKING NORTH

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

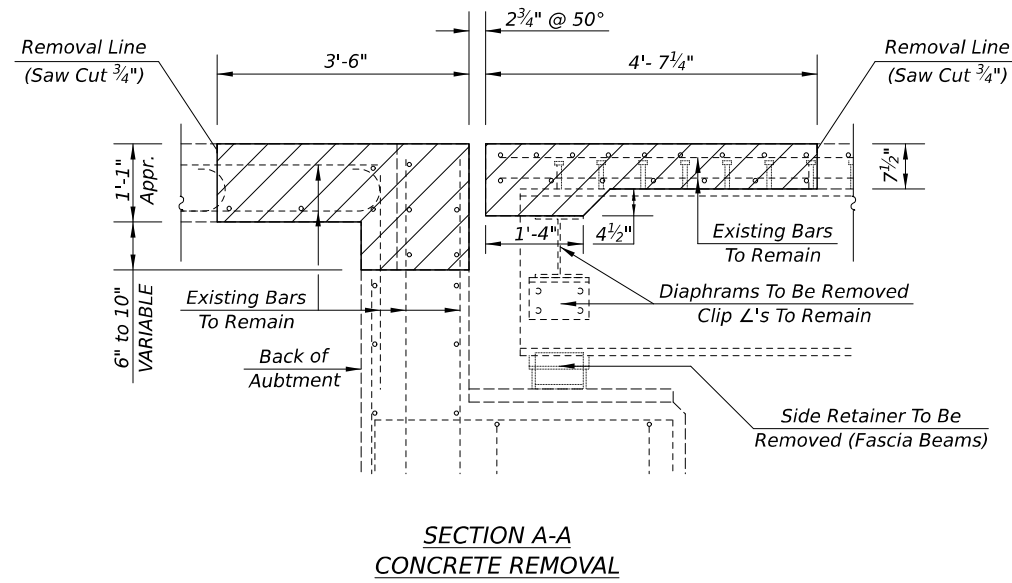
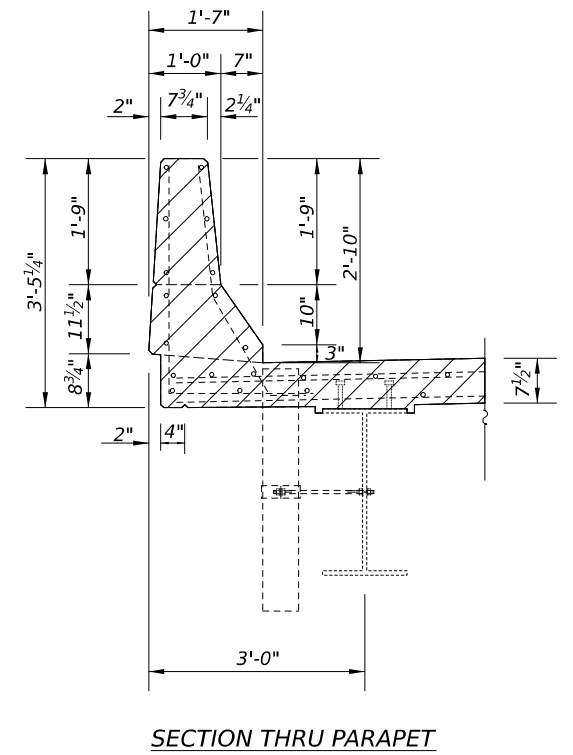
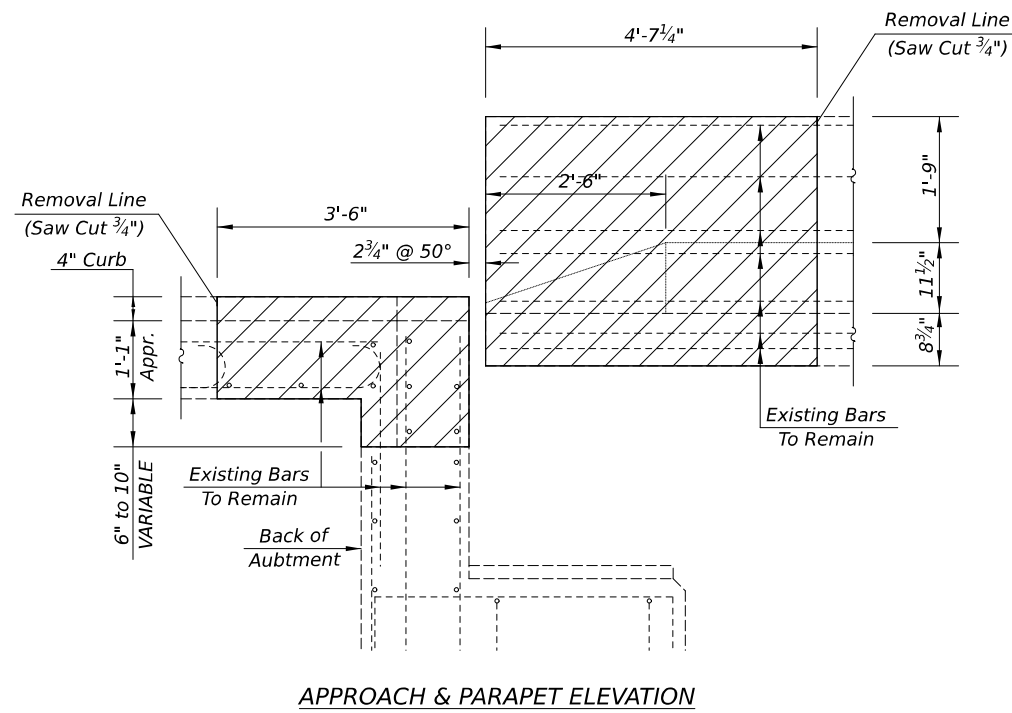
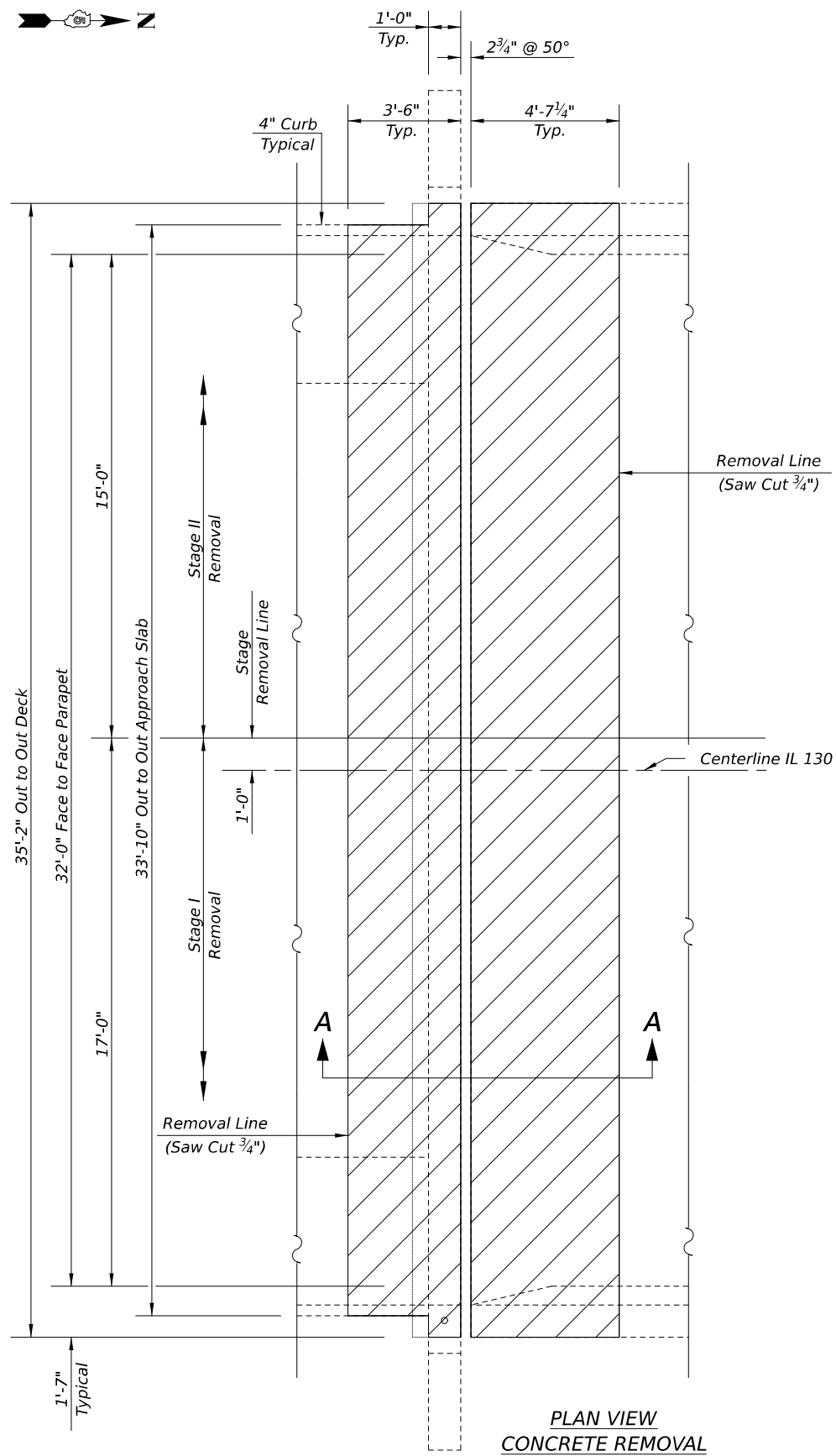
**STAGE CONSTRUCTION CROSS SECTIONS
S.N. 021-0049**

SCALE: SHEET 3 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	9
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT * DOUGLAS & EDGAR

**SOUTH ABUTMENT (EXPANSION)
CONCRETE REMOVAL DETAILS
S.N. 021-0049**



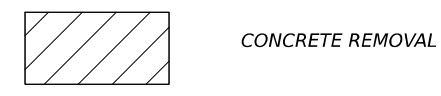
NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEND 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.

THE EXISTING EXPANSION JOINT SYSTEM SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING GUARDRAIL OR RAILING SHALL BE TEMPORARILY REMOVED AND RE-ERECTED TO ALLOW FOR REMOVAL AND REPLACEMENT OF THE PARAPET ENDS. ANY DAMAGE DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. COST INCLUDED WITH CONCRETE REMOVAL.

LEGEND



BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.6
STRUCTURAL STEEL REMOVAL	POUND	960.0

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USER NAME = eric.shawler	DESIGNED -	REVISED -
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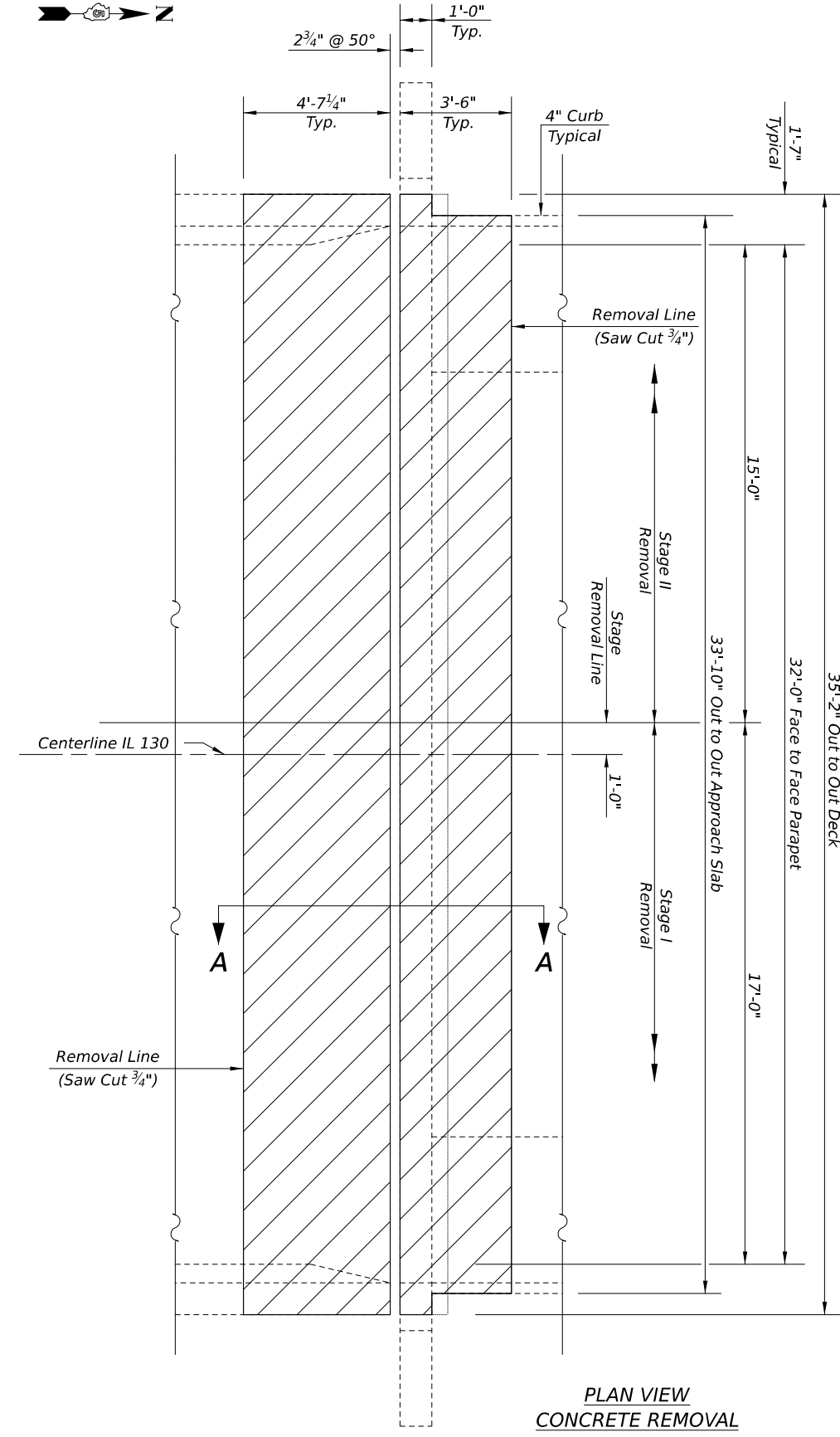
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT - CONCRETE REMOVAL DETAILS
S.N. 021-0049**

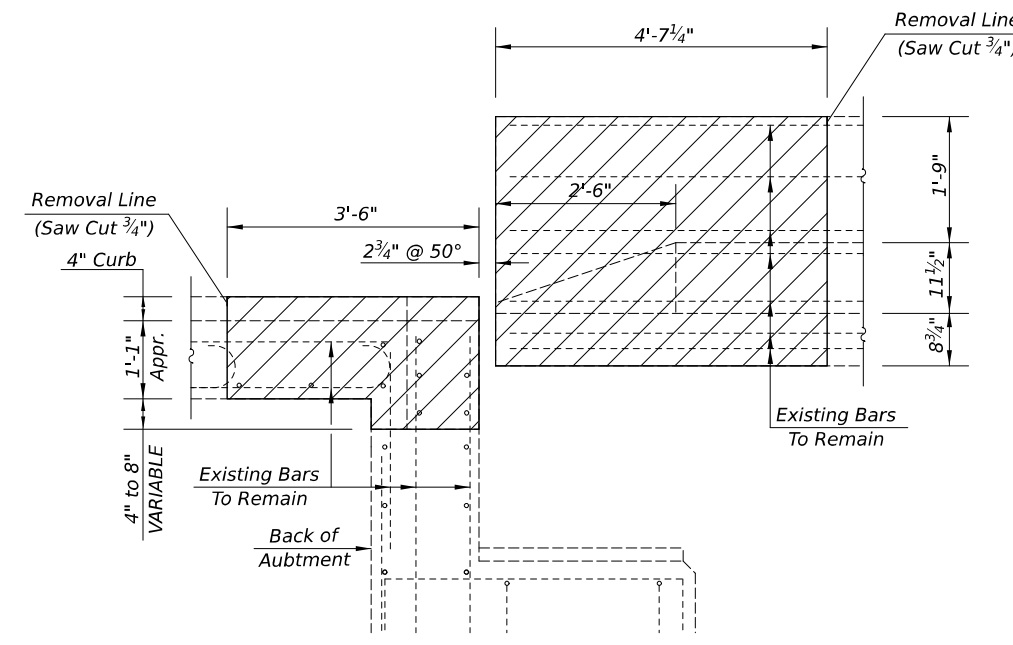
SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

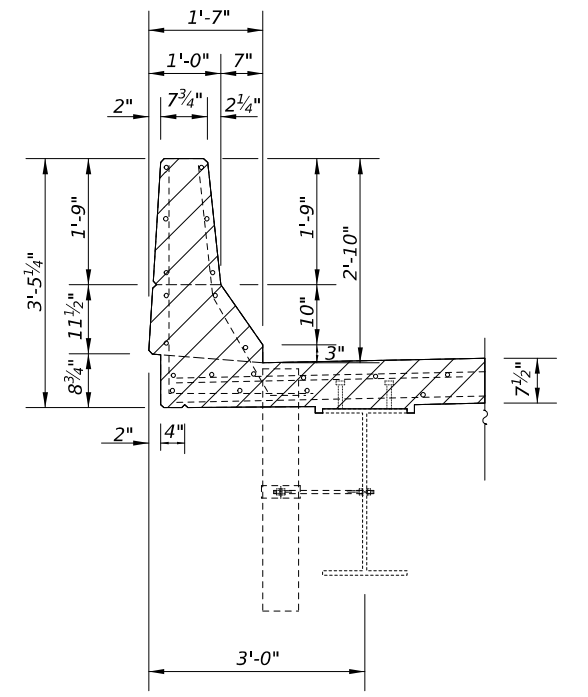
**NORTH ABUTMENT (FIXED)
CONCRETE REMOVAL DETAILS
S.N. 021-0049**



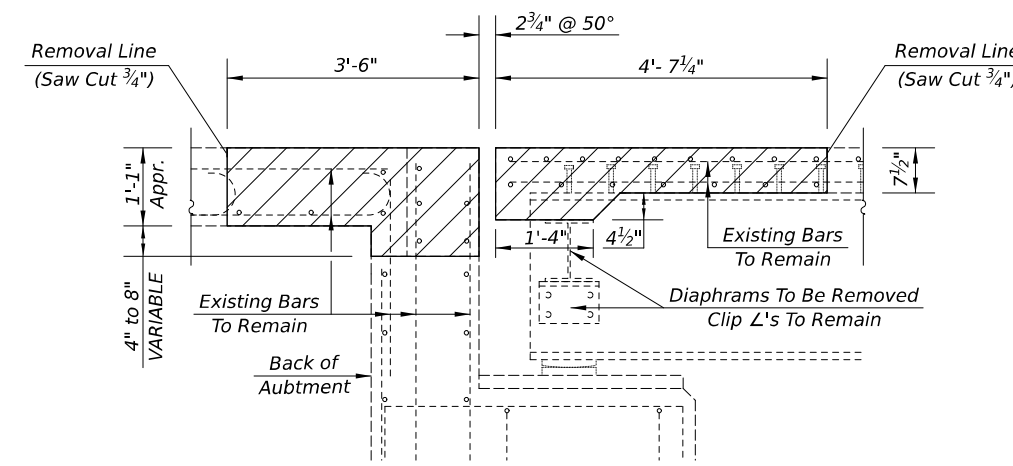
**PLAN VIEW
CONCRETE REMOVAL**



APPROACH & PARAPET ELEVATION

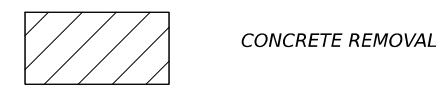


SECTION THRU PARAPET



**SECTION A-A
CONCRETE REMOVAL**

LEGEND



NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEND 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.

THE EXISTING EXPANSION JOINT SYSTEM SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING GUARDRAIL OR RAILING SHALL BE TEMPORARILY REMOVED AND RE-ERECTED TO ALLOW FOR REMOVAL AND REPLACEMENT OF THE PARAPET ENDS. ANY DAMAGE DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. COST INCLUDED WITH CONCRETE REMOVAL.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.4
STRUCTURAL STEEL REMOVAL	POUND	960.0

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

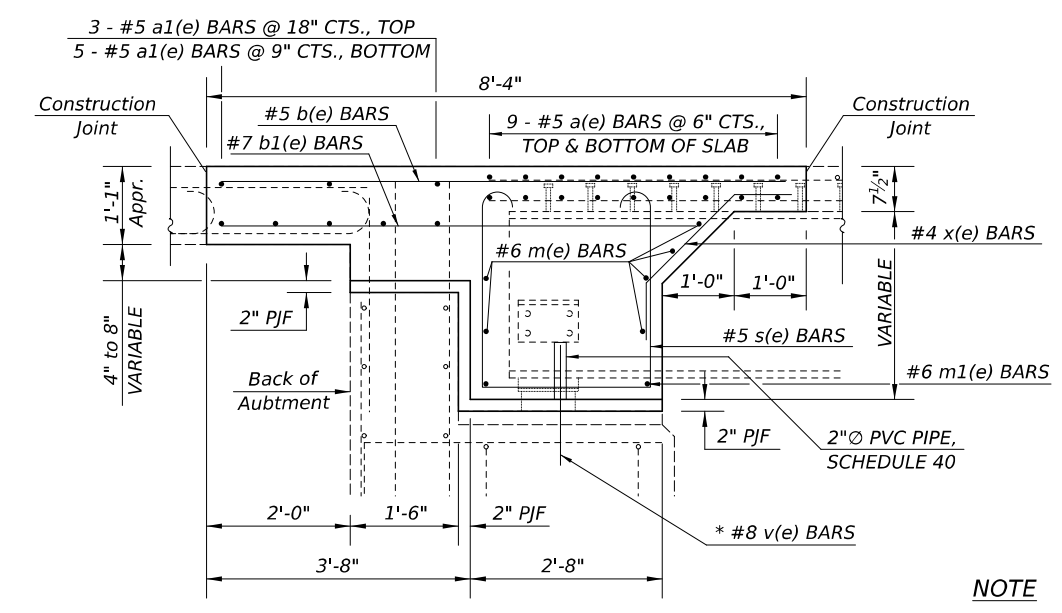
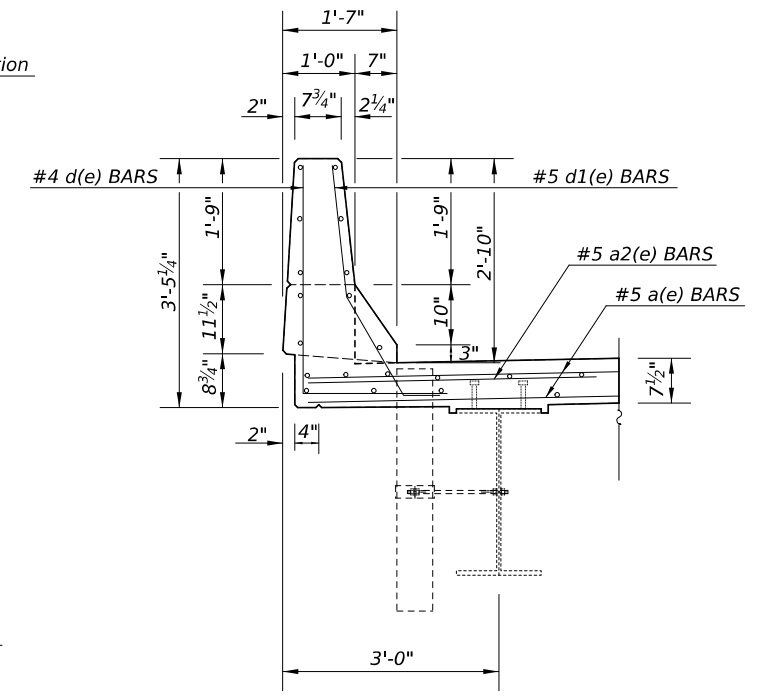
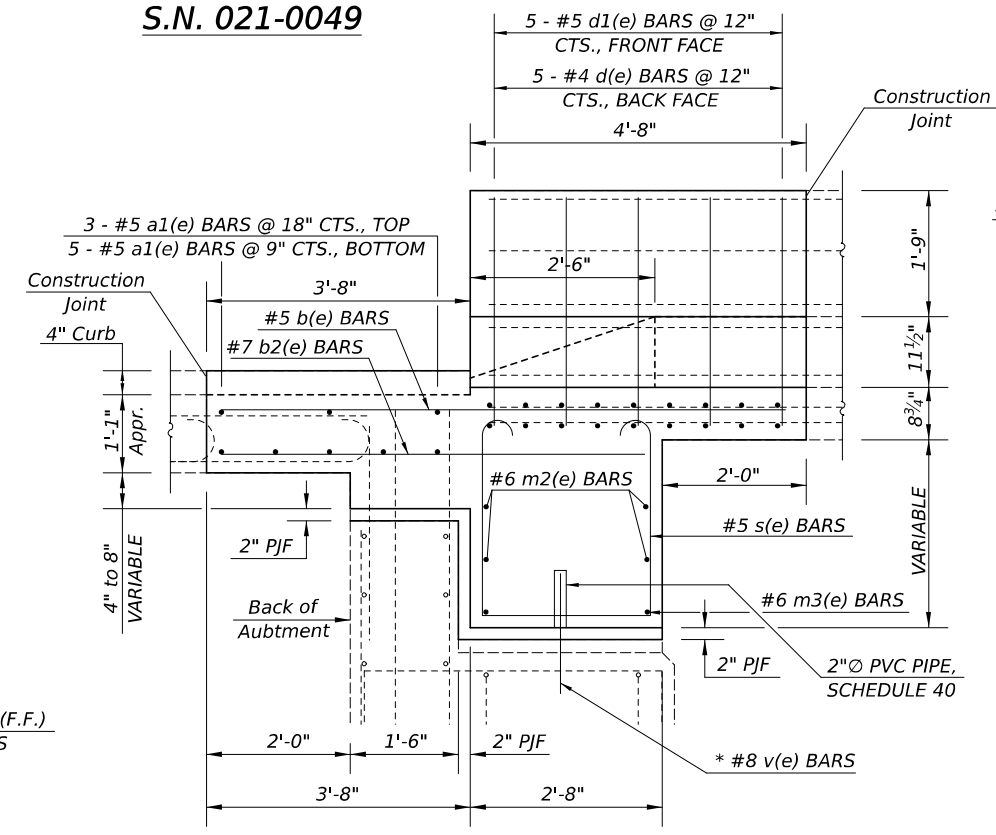
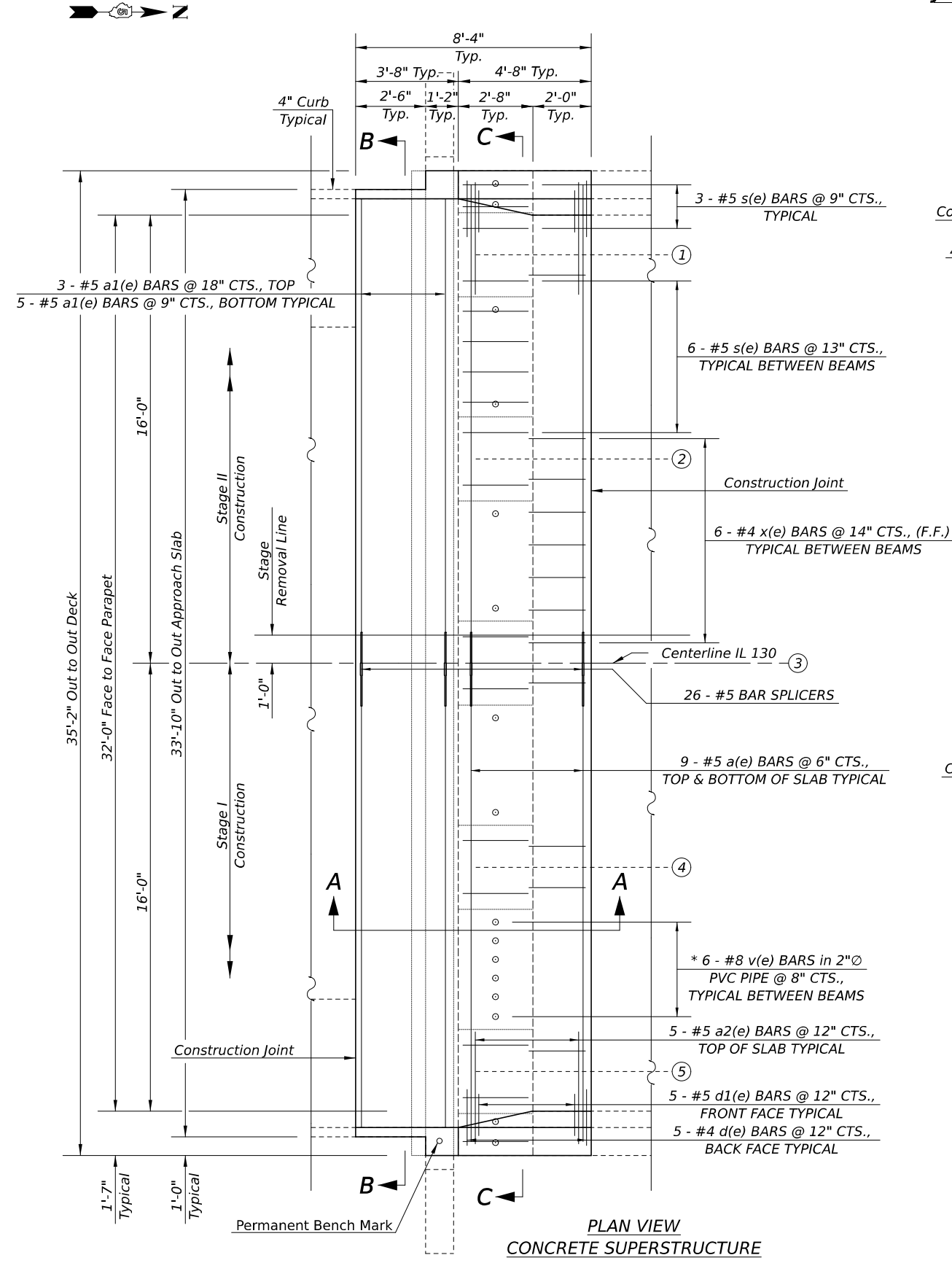
**NORTH ABUTMENT - CONCRETE REMOVAL DETAILS
S.N. 021-0049**

SCALE: SHEET 5 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	11
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

**SOUTH ABUTMENT (EXPANSION)
JOINT REPLACEMENT DETAILS**

S.N. 021-0049



NOTE
THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).
* EPOXY GROUT v(e) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.
COST OF 2" Ø PVC PIPE, SCHEDULE 40 INCLUDED WITH CONCRETE SUPERSTRUCTURES.

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

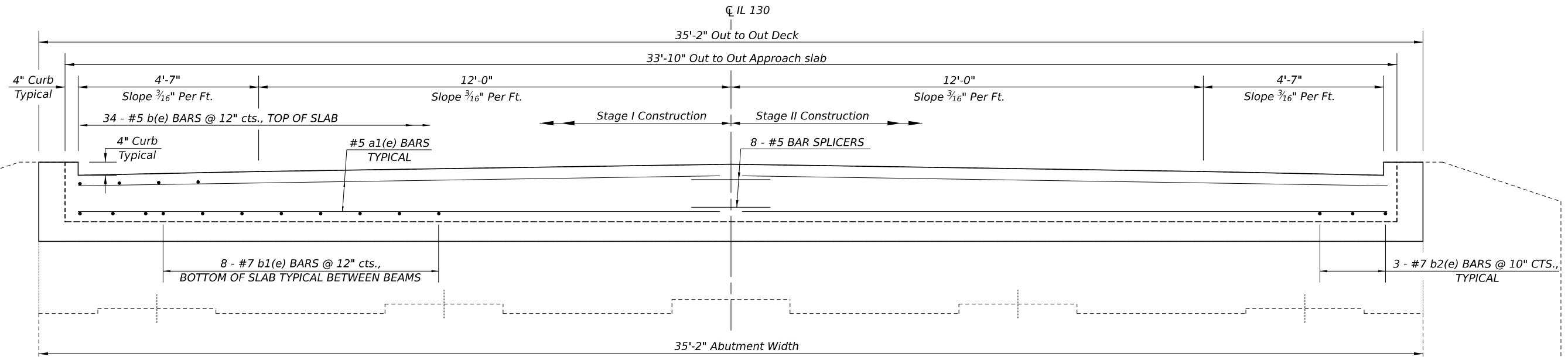
**SOUTH ABUTMENT - JOINT REPLACEMENT DETAILS
S.N. 021-0049**

SCALE: SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	12
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

**SOUTH ABUTMENT (EXPANSION)
JOINT REPLACEMENT DETAILS
S.N. 021-0049**



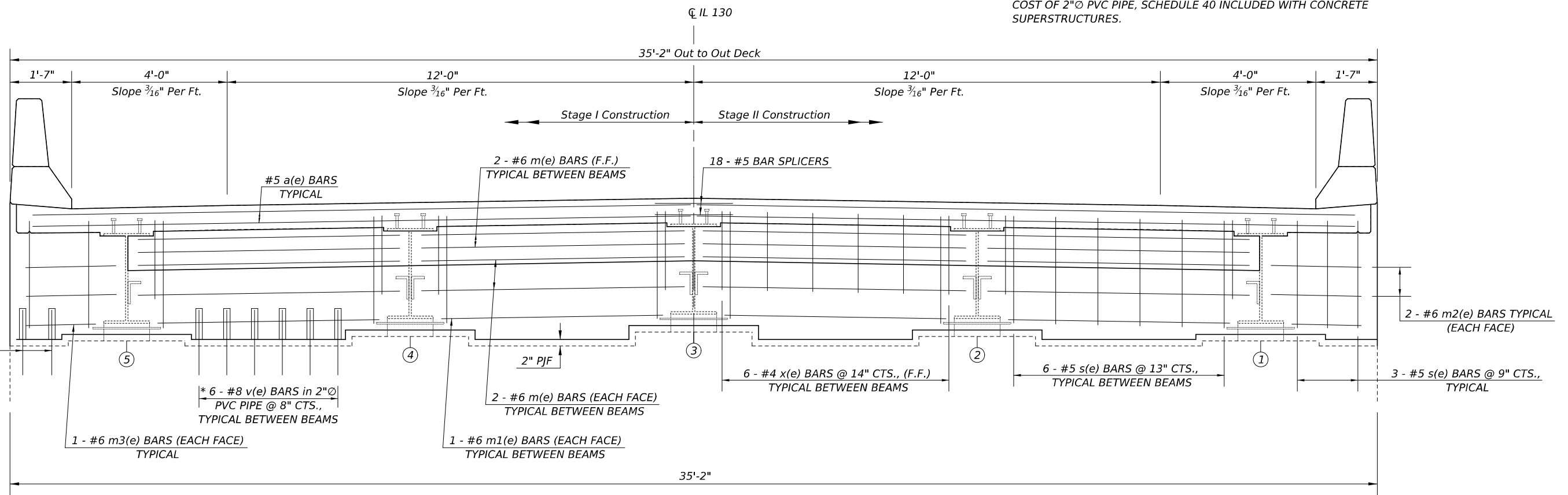
SECTION B-B

NOTE

THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).

* EPOXY GROUT v(e) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.

COST OF 2"Ø PVC PIPE, SCHEDULE 40 INCLUDED WITH CONCRETE SUPERSTRUCTURES.



SECTION C-C

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT - JOINT REPLACEMENT DETAILS
S.N. 021-0049**

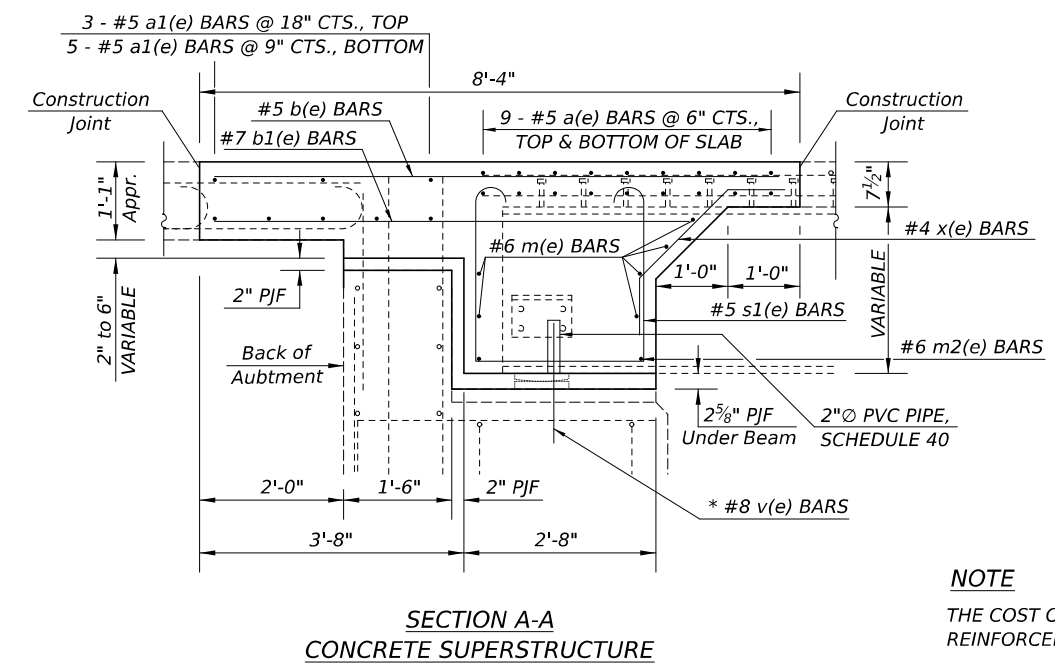
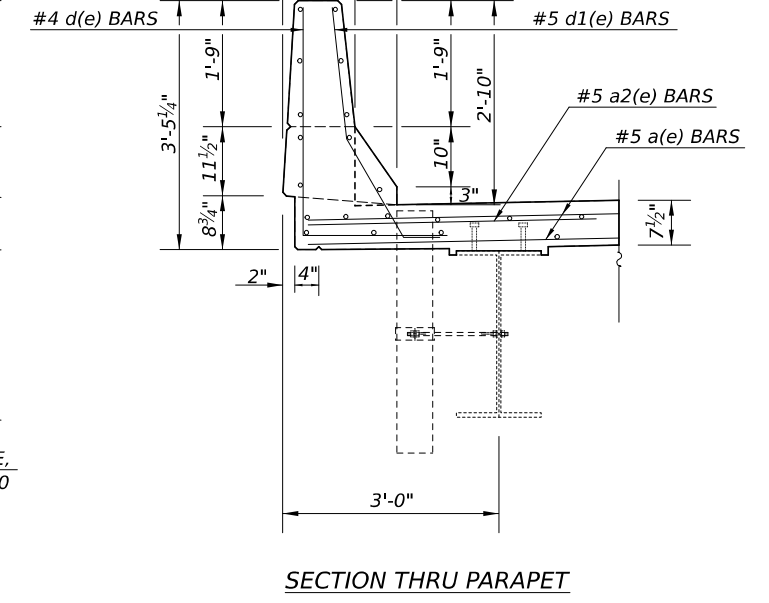
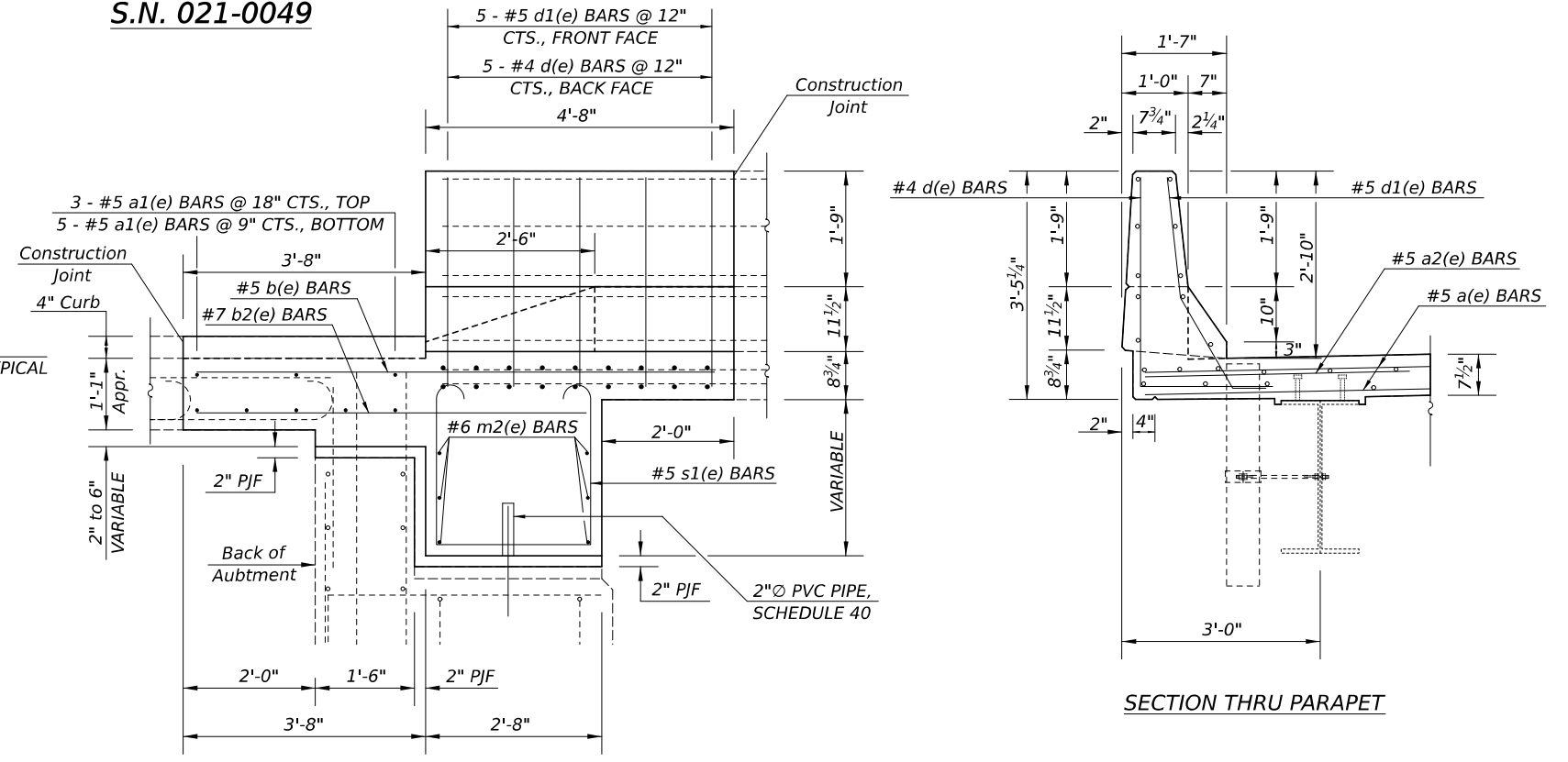
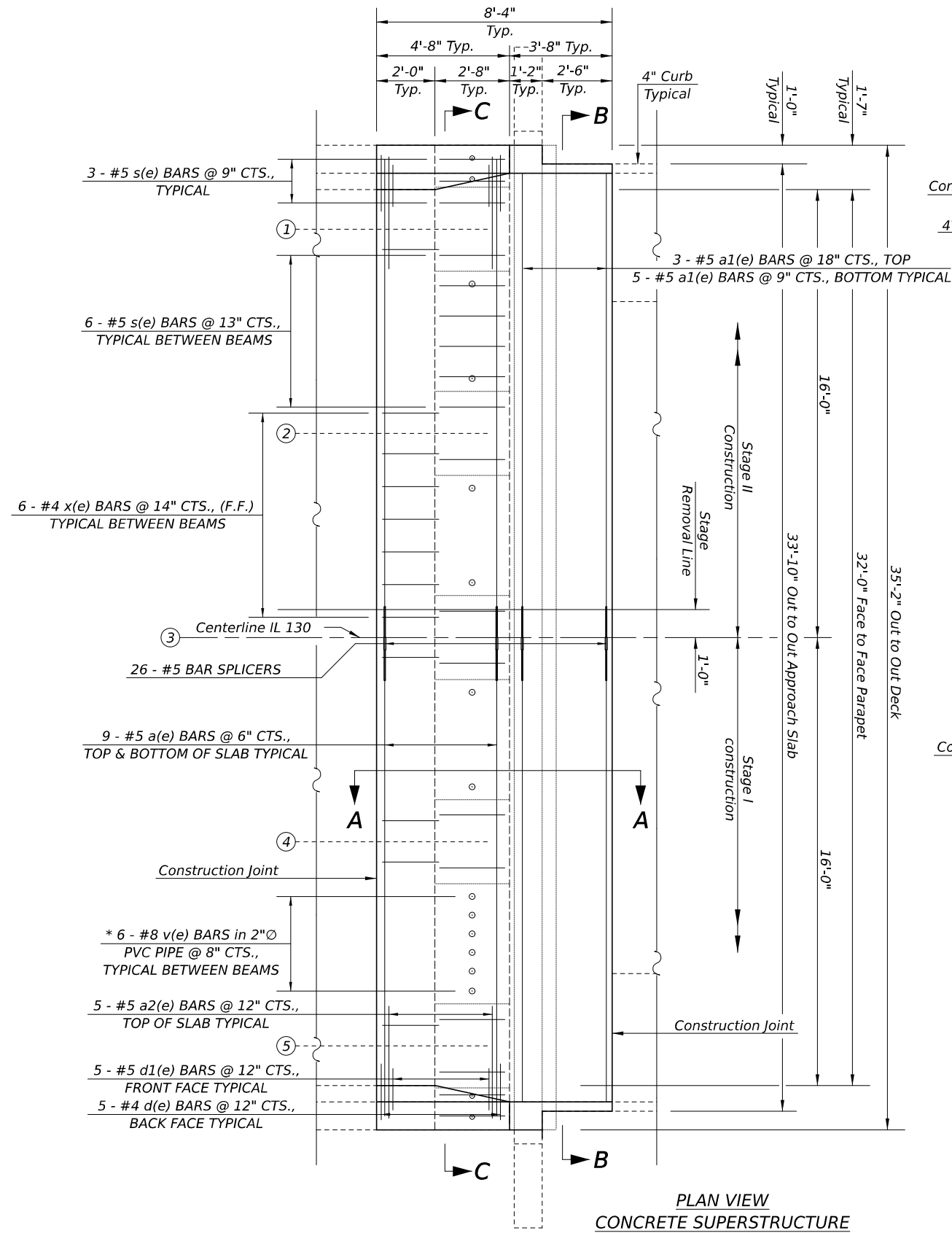
SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	13
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT

* DOUGLAS & EDGAR

**NORTH ABUTMENT (FIXED)
JOINT REPLACEMENT DETAILS
S.N. 021-0049**



NOTE
THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).
* EPOXY GROUT v(e) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.
COST OF 2" Ø PVC PIPE, SCHEDULE 40 INCLUDED WITH CONCRETE SUPERSTRUCTURES.

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

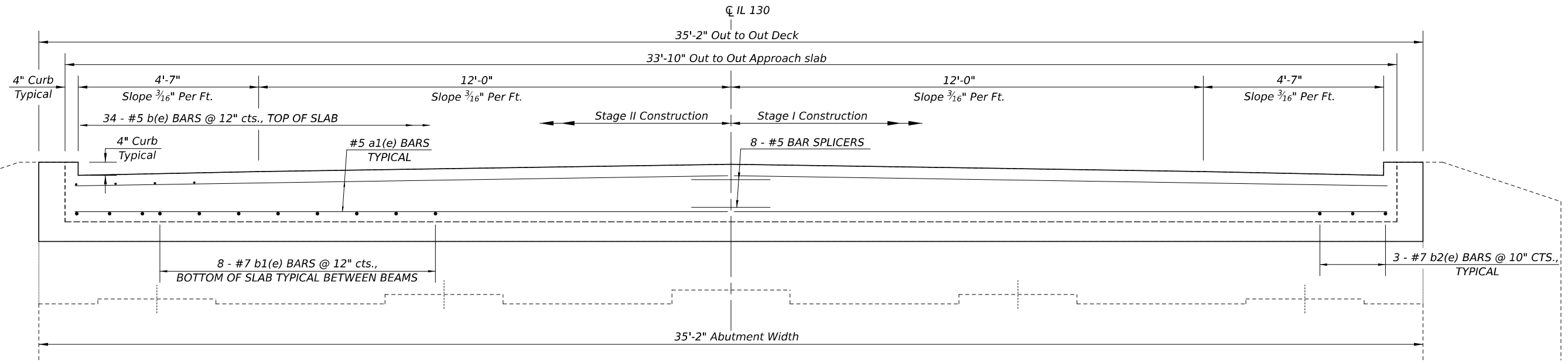
**NORTH ABUTMENT - JOINT REPLACEMENT DETAILS
S.N. 021-0049**

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	14
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

**NORTH ABUTMENT (FIXED)
JOINT REPLACEMENT DETAILS
S.N. 021-0049**



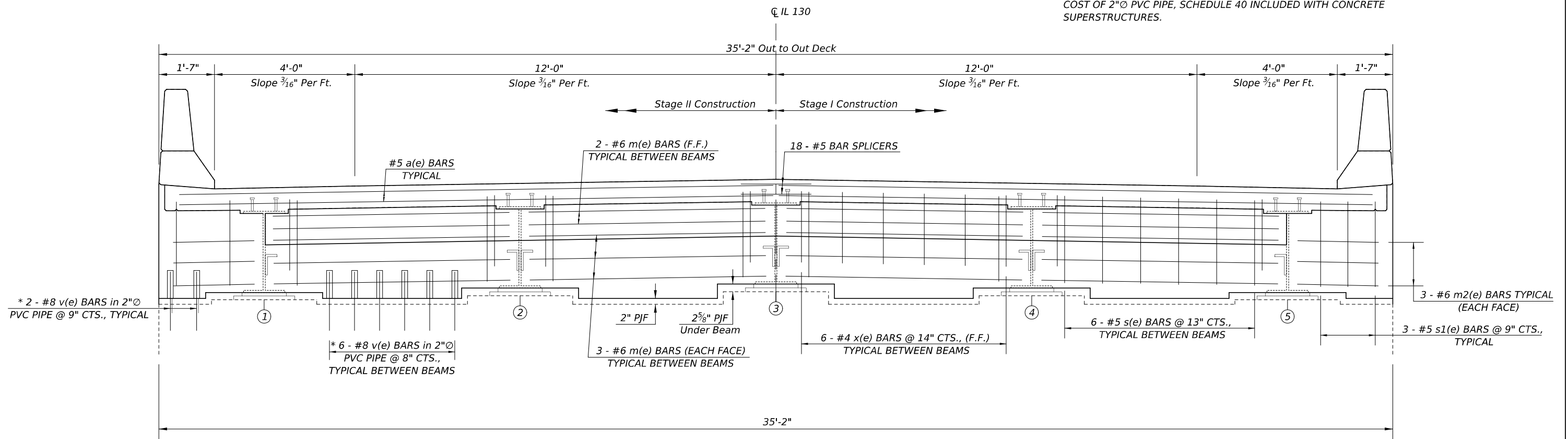
SECTION B-B

NOTE

THE COST OF EPOXY GROUTING BARS SHALL BE INCLUDED WITH REINFORCEMENT BARS (EPOXY COATED).

* EPOXY GROUT v(e) BARS IN 9" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.

COST OF 2"Ø PVC PIPE, SCHEDULE 40 INCLUDED WITH CONCRETE SUPERSTRUCTURES.



SECTION C-C

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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

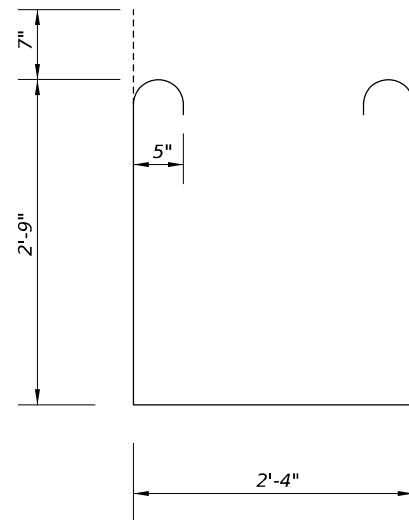
**NORTH ABUTMENT - JOINT REPLACEMENT DETAILS
S.N. 021-0049**

SCALE: SHEET 9 OF 12 SHEETS STA. TO STA.

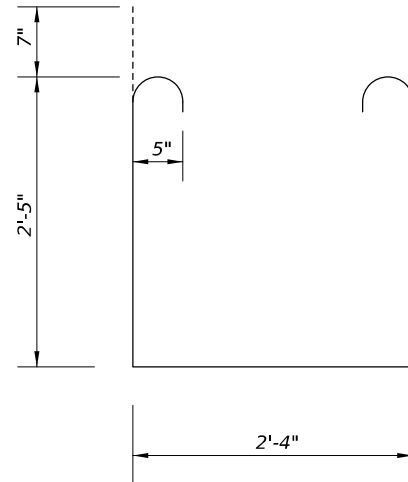
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	15
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

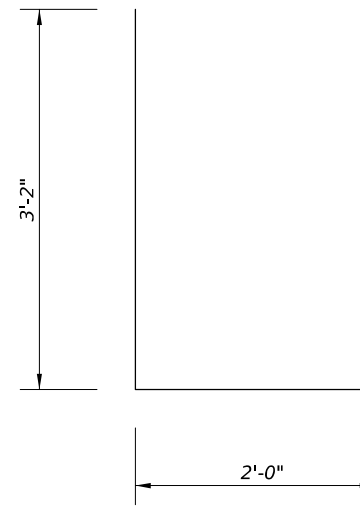
**CONCRETE SUPERSTRUCTURE
BILL OF MATERIALS
S.N. 021-0049**



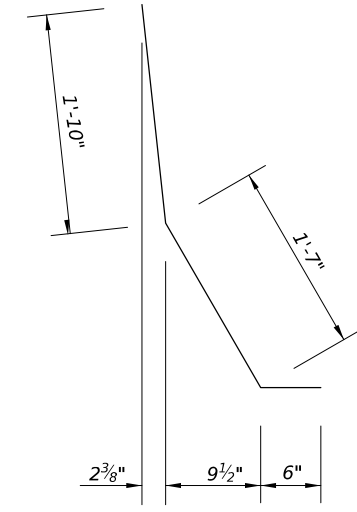
BAR s(e)



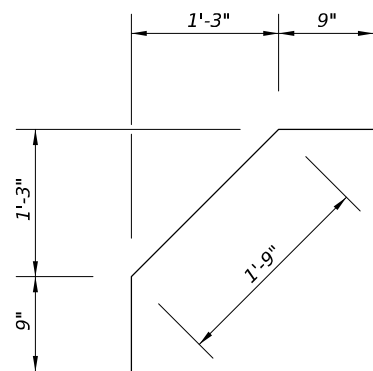
BAR s1(e)



BAR d(e)



BAR d1(e)



BAR x(e)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE	
a(e)	72	#5	17'-3"	—	
a1(e)	32	#5	16'-7"	—	
a2(e)	20	#5	4'-0"	—	
b(e)	68	#5	7'-10"	—	
b1(e)	64	#7	6'-8"	—	
b2(e)	12	#7	5'-10"	—	
d(e)	20	#4	5'-2"	┘	
d1(e)	20	#5	3'-11"	┘	
m(e)	72	#6	6'-9"	—	
m1(e)	8	#6	5'-8"	—	
m2(e)	20	#6	2'-5"	—	
m3(e)	4	#6	1'-10"	—	
s(e)	24	#5	5'-7"	□	
s1(e)	24	#5	4'-8"	□	
v(e)	56	#8	1'-8"	—	
x(e)	48	#4	3'-3"	┘	
ITEM				UNIT	TOTAL
REINFORCEMENT BARS, EPOXY COATED				POUND	5,150.0
CONCRETE SUPERSTRUCTURE				CU YD	41.6
BAR SPLICERS				EACH	52.0
PROTECTIVE COAT				SQ YD	69.0
PERMANENT BENCH MARKS				EACH	1.0

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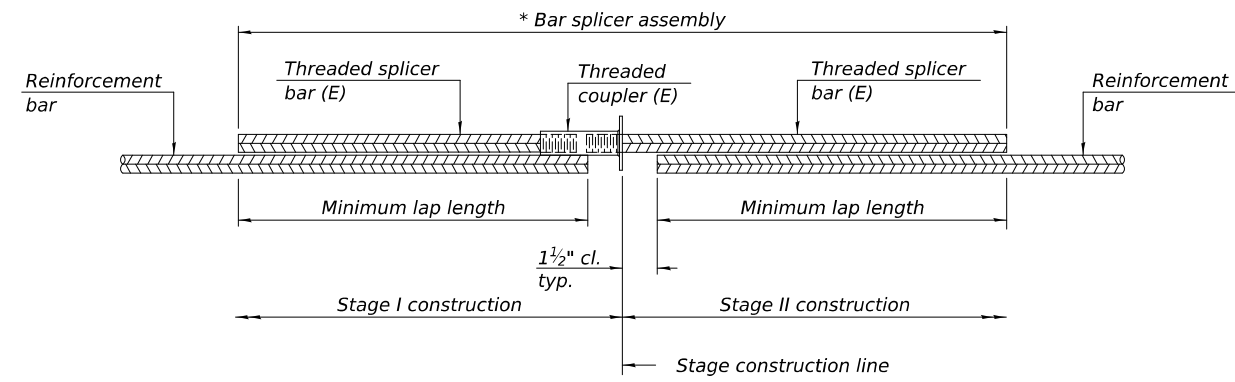
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PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE SUPERSTRUCTURE - BILL OF MATERIALS
S.N. 021-0049**

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	16
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

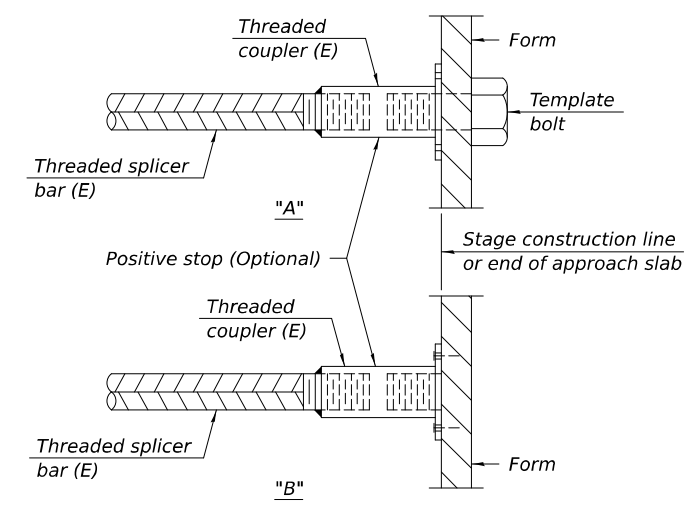


STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

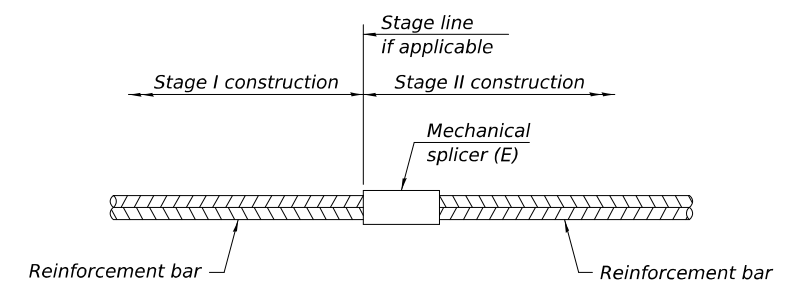
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
APPROACH SLAB	#5	16	3'-6"
DECK ENDS	#5	36	3'-6"



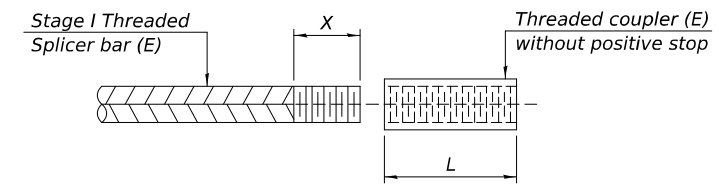
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

4-4-2025

USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
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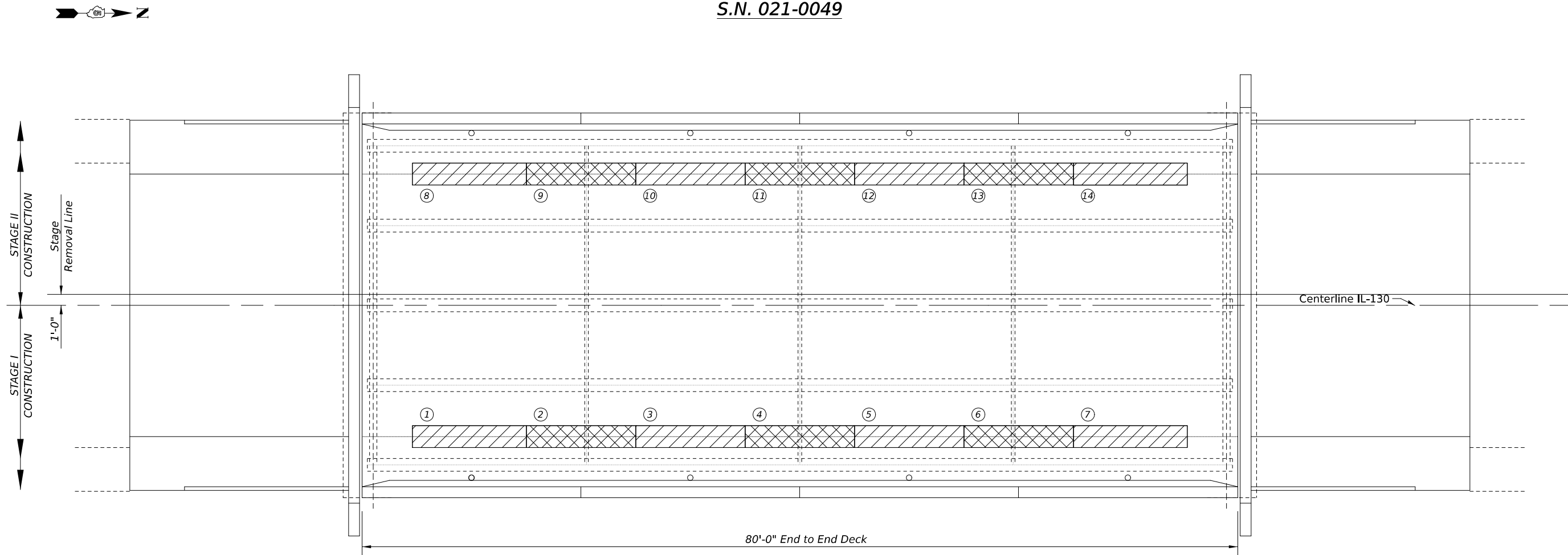
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 021-0049

SCALE: SHEET 11 OF 12 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	17
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

BRIDGE DECK PATCHING
S.N. 021-0049



PLAN VIEW

PATCH NO.	SIZE W. FT. * L. FT.	DECK SLAB REPAIR (PART DEPTH)		
		SQ YD	SQ YD	SQ YD
1	2.0 X 10.5			2.3
2	2.0 X 10.0			2.2
3	2.0 X 10.0			2.2
4	2.0 X 10.0			2.2
5	2.0 X 10.0			2.2
6	2.0 X 10.0			2.2
7	2.0 X 10.5			2.3
8	2.0 X 10.5			2.3
9	2.0 X 10.0			2.2

PATCH NO.	SIZE W. FT. * L. FT.	DECK SLAB REPAIR (PART DEPTH)		
		SQ YD	SQ YD	SQ YD
10	2.0 X 10.0			2.2
11	2.0 X 10.0			2.2
12	2.0 X 10.0			2.2
13	2.0 X 10.0			2.2
14	2.0 X 10.5			2.3

- * LONGITUDINAL REMOVAL FOR DECK SLAB REPAIR (FULL-DEPTH, TYPE II) MUST BE DONE IN ALTERNATING SECTIONS OF NO MORE THAN 10 FEET. ADJACENT SECTIONS MUST NOT BE REMOVED UNTIL BOTH OF THE FOLLOWING REQUIREMENTS ARE MET:
1. AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR, AND
 2. THE CONCRETE SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 650 PSI OR A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIR ON THE AS-BUILT PLANS. THE PREFERRED METHOD OF RECORDING THIS INFORMATION IS DATA RECORDING BY GPS OR TOTAL STATION, PROCESSED IN MICROSTATION. IF DESIRED, THE ENGINEER MAY RECORD BY HAND.

LEGEND

- * DECK SLAB REPAIR FULL DEPTH, TYPE II
- * DECK SLAB REPAIR FULL DEPTH, TYPE II

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR FULL DEPTH, TYPE II	SQ YD	31.2

DECK SURVEY PERFORMED
JANUARY, 2025.

METHOD OF SURVEY:
VISUAL

PATCHES ACTUAL SIZE
AND LOCATIONS SHOULD
BE SHOWN ON THIS SHEET.

MODEL: S:\021-0049-12 (Sheet)
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	CHECKED - TJB	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
S.N. 021-0049

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	18
CONTRACT NO. 70H62				

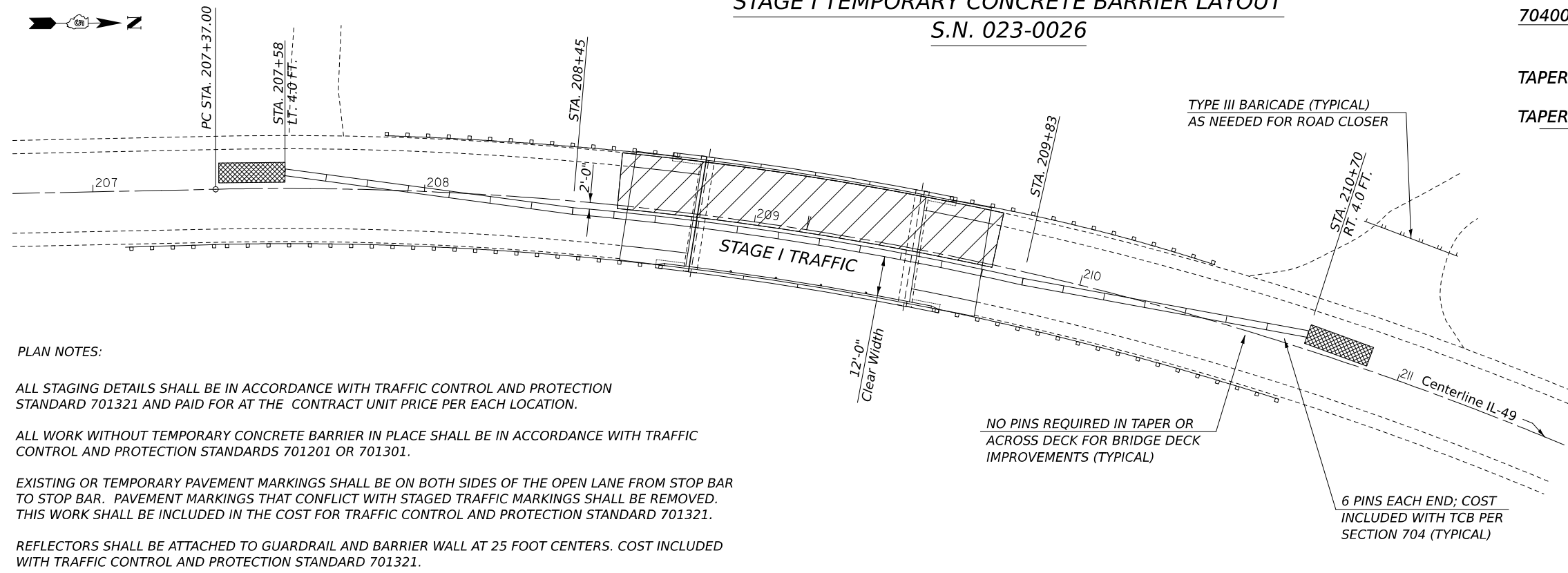
820 & 836 ILLINOIS FED. AID PROJECT * DOUGLAS & EDGAR

STAGE I TEMPORARY CONCRETE BARRIER LAYOUT

S.N. 023-0026

70400100 TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	LENGTH
TAPER	207+58		208+45	87.5
TAPER	208+45		209+83	137.5
TAPER	209+83		210+70	87.5
SUB-TOTAL =				312.5



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 OR 701301.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

- TEMPORARY CONCRETE BARRIER
- PROPOSED WORK AREA
- IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3

BILL OF MATERIALS

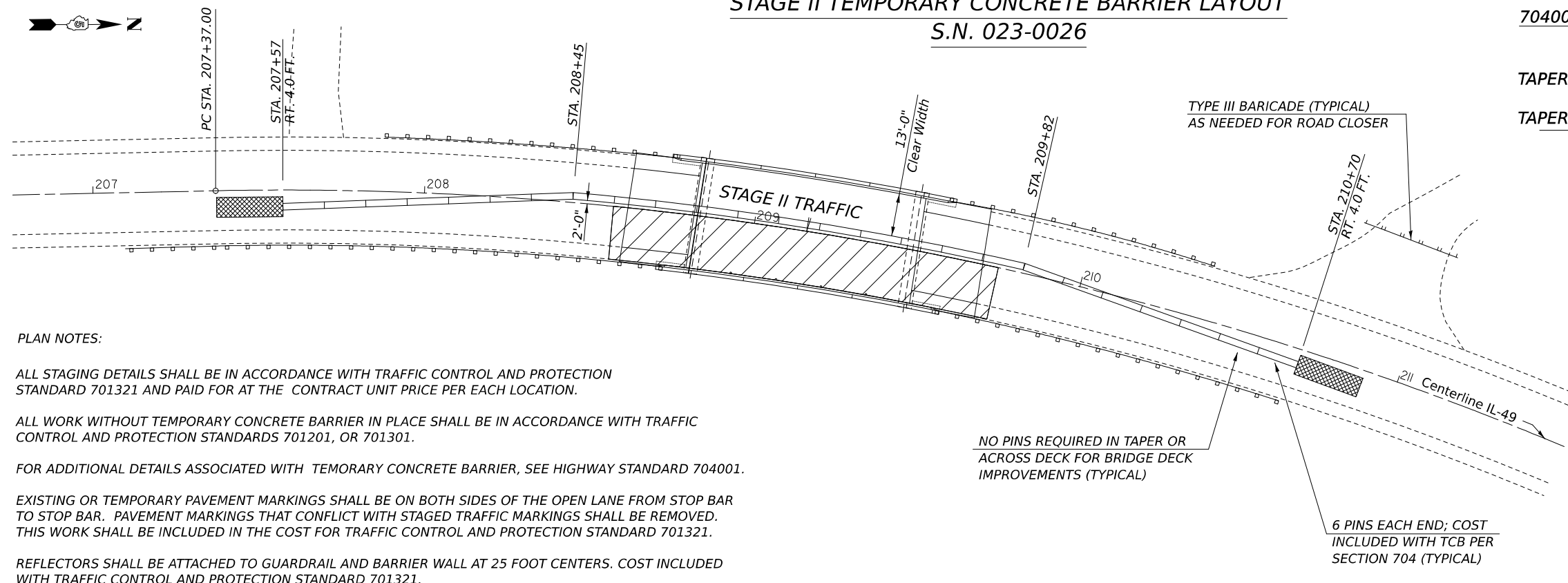
ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	312.5
IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

STAGE II TEMPORARY CONCRETE BARRIER LAYOUT

S.N. 023-0026

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	LENGTH
TAPER	207+57		208+45	87.5
TAPER	208+45		209+82	137.5
TAPER	209+83		210+70	87.5
SUB-TOTAL =				312.5



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201, OR 701301.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

- TEMPORARY CONCRETE BARRIER
- PROPOSED WORK AREA
- IMPACT ATTENUATOR, TEMPORARY, NON-REDIRECTIVE TEST LEVEL 3

BILL OF MATERIALS

ITEM	UNIT	TOTAL
REL. TEMPORARY CONCRETE BARRIER	FOOT	312.5
REL. IMPACT ATTENUATOR TEMPORARY NON-REDIRECTIVE TEST LEVEL 3	EACH	2.0

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PLOT DATE = 9/30/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER LAYOUT
S.N. 023-0026

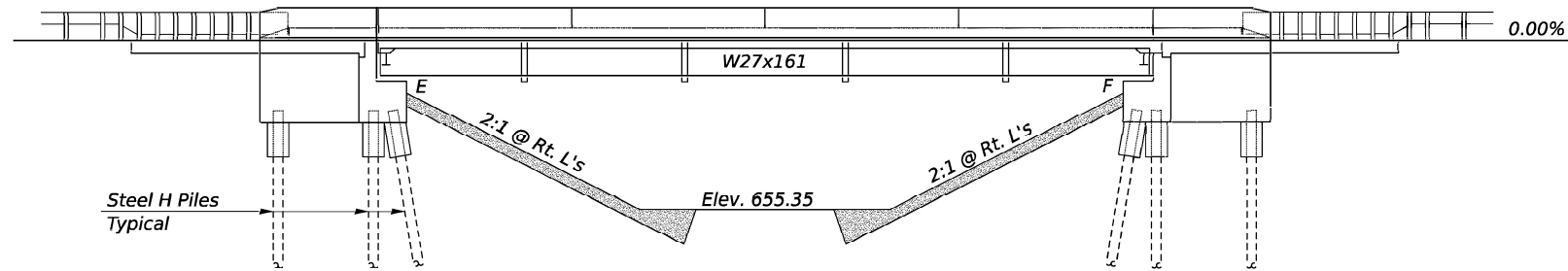
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	19
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

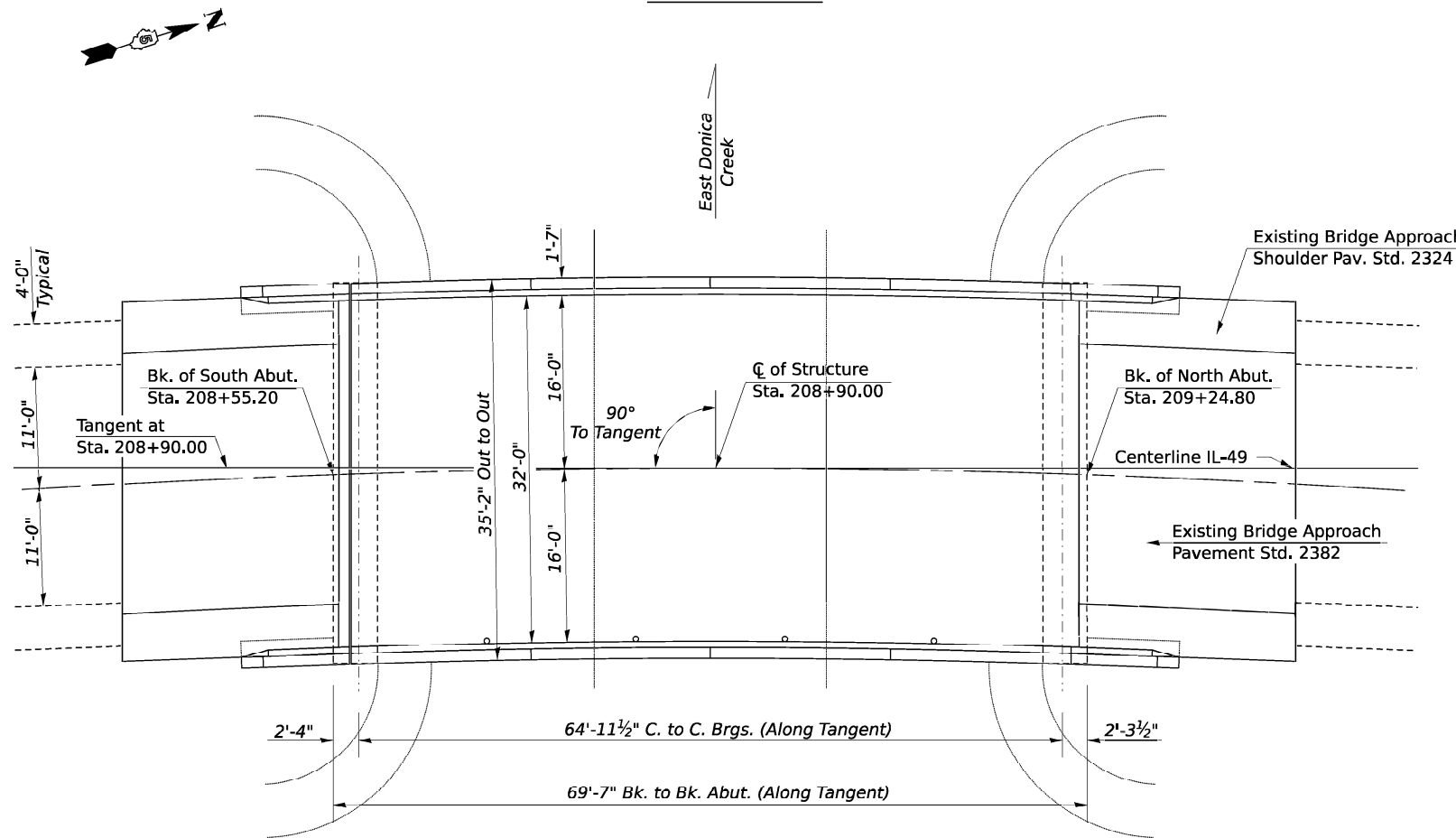
STRUCTURE NO. 023-0026 BUILT AS FA RTE. 836, CONTRACT 36887 SECTION 115BR IN 1984 AT STATION 208+90. A SINGLE-SPAN STEEL W27X161 BEAM STRUCTURE. A REINFORCED CONCRTE DECK ON SPILL THRU ABUTMENTS SUPPORTED BY STEEL HP 10X42 PILES. THIS STRUCTURE IS BUILT ON A TANGENT TO A HORIZONTAL CURVE THAT HAS A RADIUS OF 1000. THE OFFSET TO THE CURVE AT THE BACK OF ABUTMENT IS 7" PLAN AND 7 1/4" AS-BUILT. THE P.I. STATION OF THE CURVE IS 213+10. THE BACK TO BACK ABUTMENTS LENGTH IS 69'-7" (ALONG TANGENT), AN OUT TO OUT WIDTH OF 35'-2" AND A CLEAR WIDTH OF 32'-0" FACE TO FACE OF PARAPET AND IS NOT SKEWED TO THE TANGENT.

GENERAL PLAN & ELEVATION
S.N. 023-0026

WORK SHALL BE COMPLETED WITH STAGE CONSTRUCTION.



ELEVATION VIEW



PLAN VIEW

SCOPE OF WORK

1. REMOVE DECK ENDS, AND HATCH BLOCK.
2. PERFORM PARTIAL DEPTH PATCHING ON APPROACHES.
3. COMPLETE STRUCTURAL STEEL REPAIR, REPLACE BEARINGS AND END DIAPHRAGMS.
4. POUR CONCRETE SUPERSTRUCTURE.
5. PLACE RUBBER STRIP SEAL INTO LOCKING EDGE RAILS.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	9.3
CONCRETE SUPERSTRUCTURE	CU YD	9.2
FURNISH & ERECTING STRUCTURAL STEEL	POUND	3,530.0
REINFORCEMENT BARS, EPOXY COATED	POUND	1,150.0
BAR SPLICERS	EACH	24.0
PREFORMED JOINT STRIP SEAL	FEET	36.0
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	5.0
ANCHOR BOLTS 1"	EACH	20.0
JACK & REMOVE EXISTING BEARING	EACH	10.0
STRUCTURAL STEEL REMOVAL	POUND	2,580.0
STRUCTURAL STEEL REPAIR	POUND	4,270.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	25.6
PROTECTIVE COAT	SQ YD	26.0

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS HAVE BEEN TAKEN FROM THE 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.

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.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL RUST, MILL SCALE, AND OTHER POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE UTILIZING PNEUMATIC NEEDLE SCALERS OR BY SAND BLASTING. AREAS CLEANED SHALL BE COATED WITH 2 COATS OF ALUMINUM EPOXY MASTIC ARTICLE 1008.03. THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

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 CONTRACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLY SHALL BE GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL".

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SUPERSTRUCTURE AS SPECIFIED IN ARTICLE 503.19 OF THE STANDARD SPECIFICATIONS.



Expires November 30, 2026

Justin W. Mann

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 023-0026

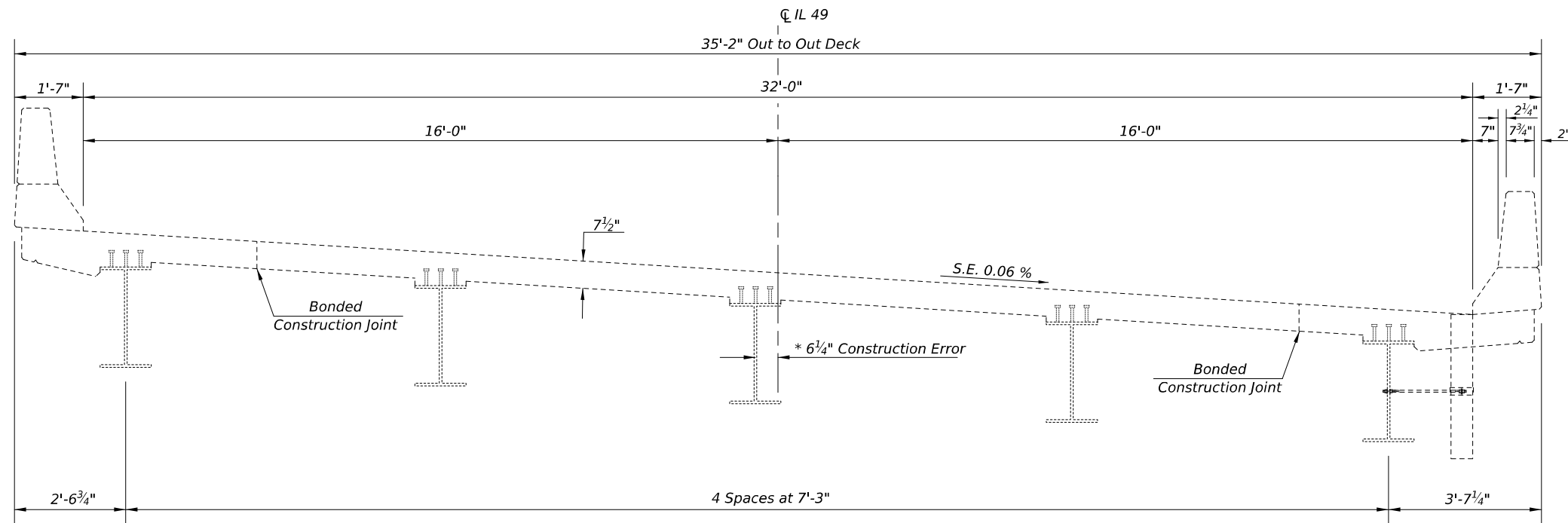
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	20
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT

* DOUGLAS & EDGAR

EXISTING DECK CROSS SECTION
S.N. 023-0026



LOOKING NORTH
(All Transverse Dimensions are Radial)

* As-Built Dimensions

PROPOSED DECK CROSS SECTION
S.N. 023-0026

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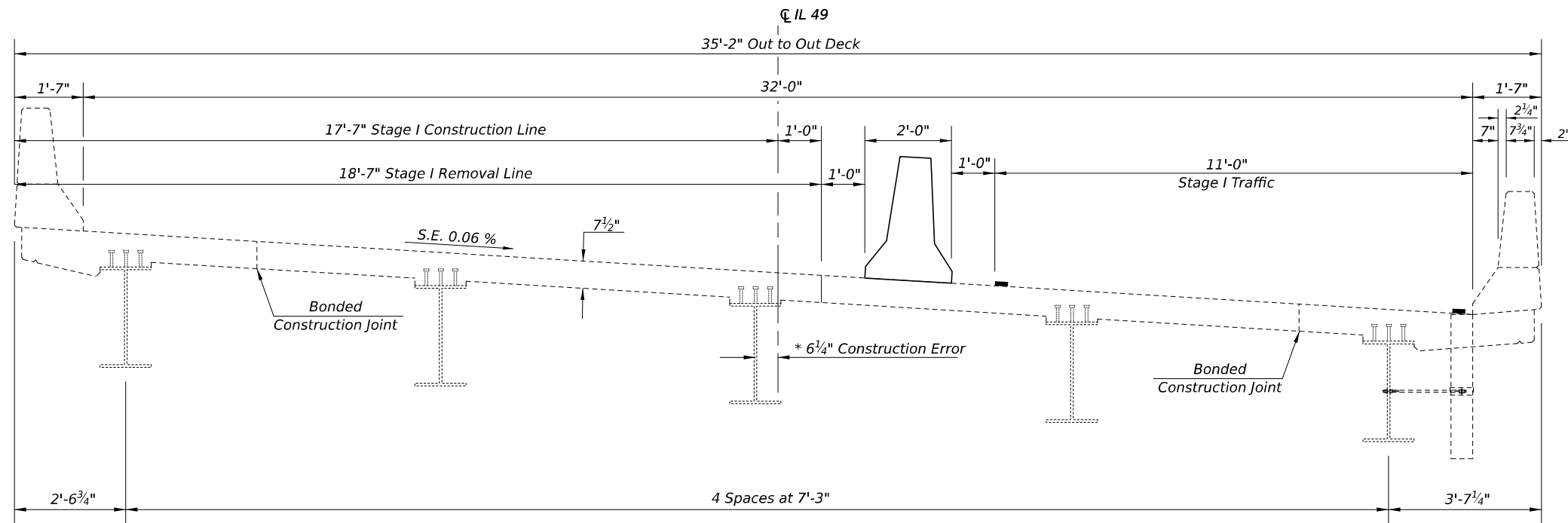
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK CROSS SECTION
S.N. 023-0026

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	21
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

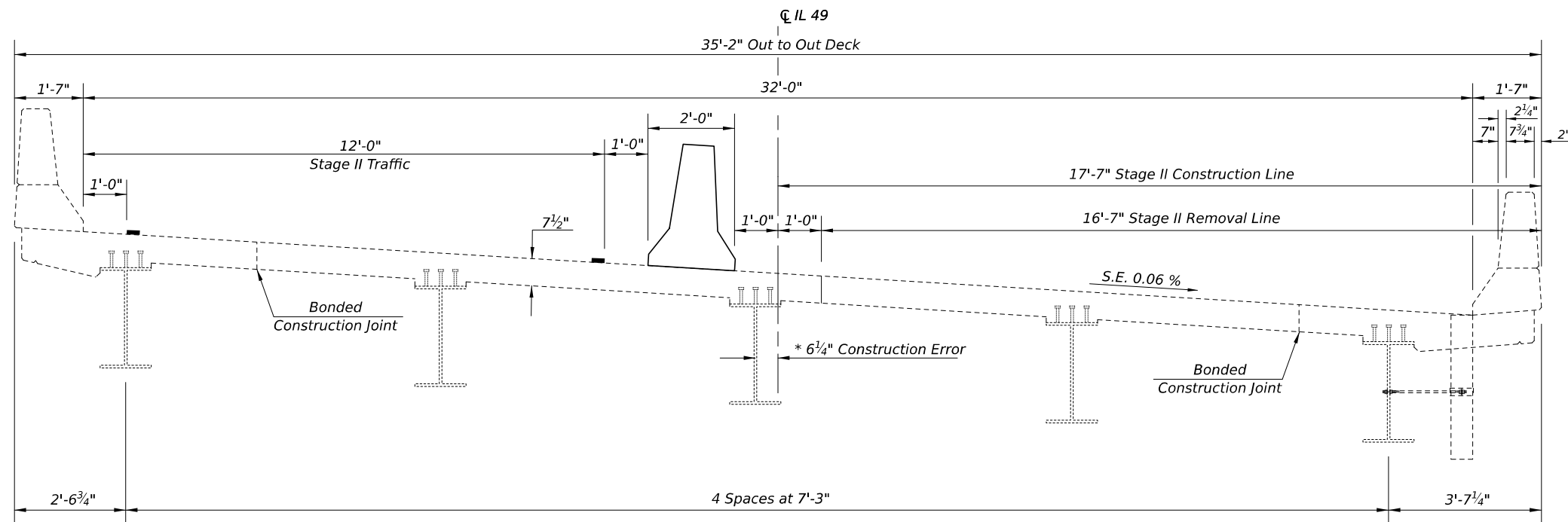
STAGE I CONSTRUCTION DETAILS
S.N. 023-0026



LOOKING NORTH
(All Transverse Dimensions are Radial)

* As-Built Dimensions

STAGE II CONSTRUCTION DETAILS
S.N. 023-0026



LOOKING NORTH
(All Transverse Dimensions are Radial)

* As-Built Dimensions

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
S.N. 023-0026

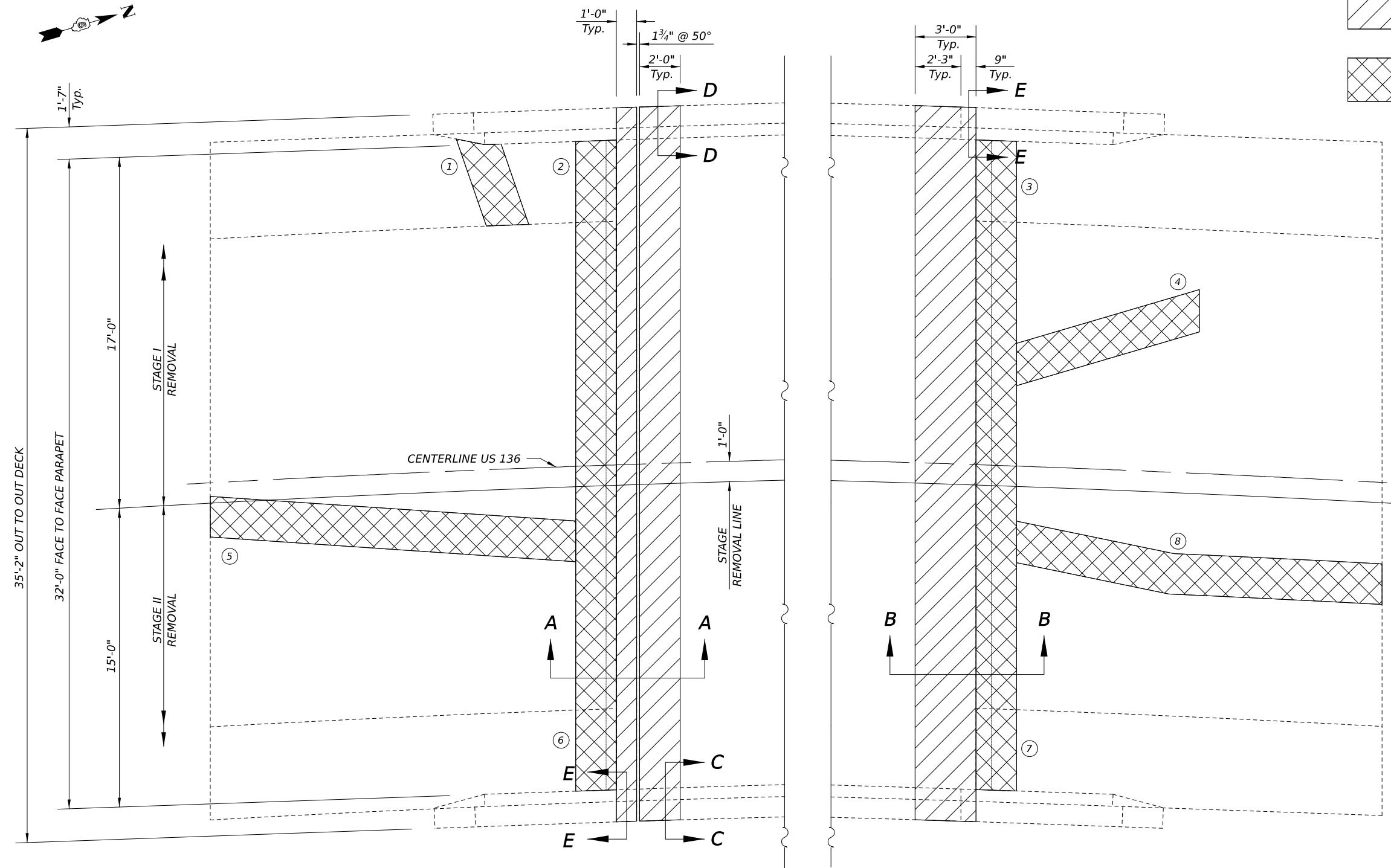
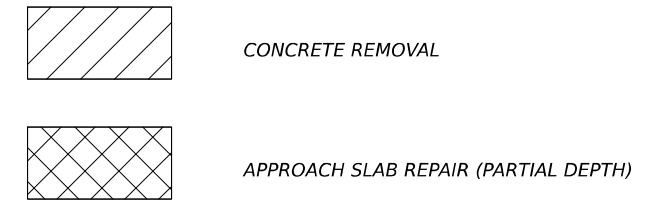
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	22
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT

* DOUGLAS & EDGAR

CONCRETE REMOVAL & APPROACH SLAB REPAIR
S.N. 023-0026



PATCH NO.	SIZE	SQ YD
	L. FT. * W. FT.	
1	4.4 X 2.0	1.0
2	16.0 X 2.0	3.6
3	16.0 X 2.0	3.6
4	9.4 X 2.0	2.1
5	18.0 X 2.0	4.0
6	16.0 X 2.0	3.6
7	16.0 X 2.0	3.6
8	18.2 X 2.0	4.1

PLAN VIEW
CONCRETE REMOVAL

NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEND 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.

THE EXISTING EXPANSION JOINT SYSTEM SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	25.6

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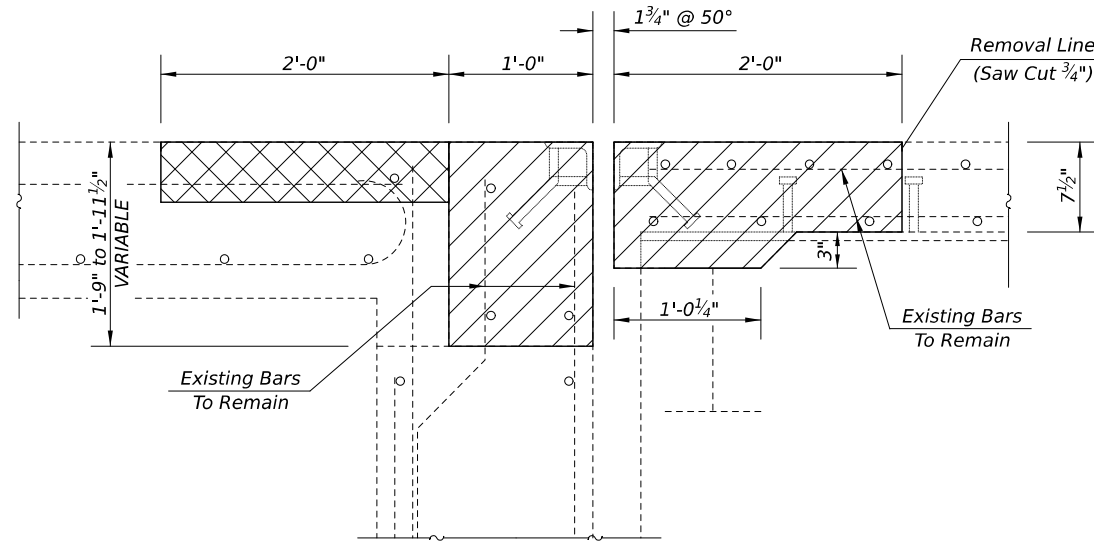
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL & APPROACH SLAB REPAIR
S.N. 023-0026

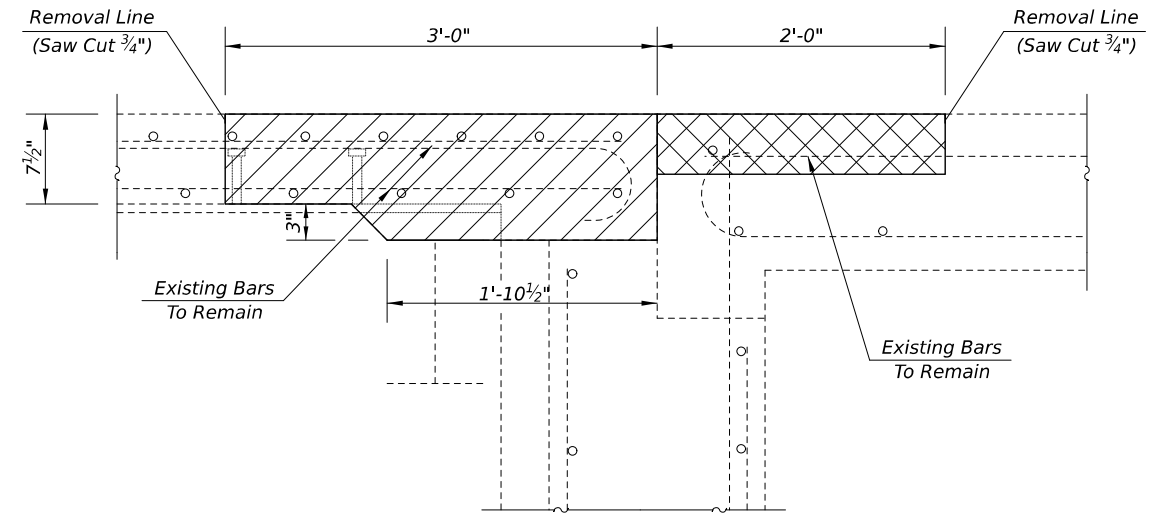
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CONTRACT NO. 70H62				

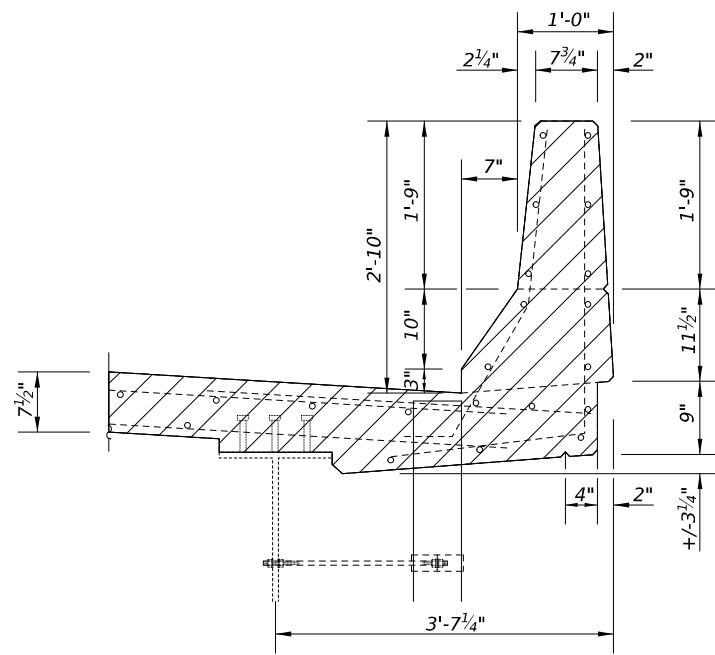
CONCRETE REMOVAL DETAILS
S.N. 023-0026



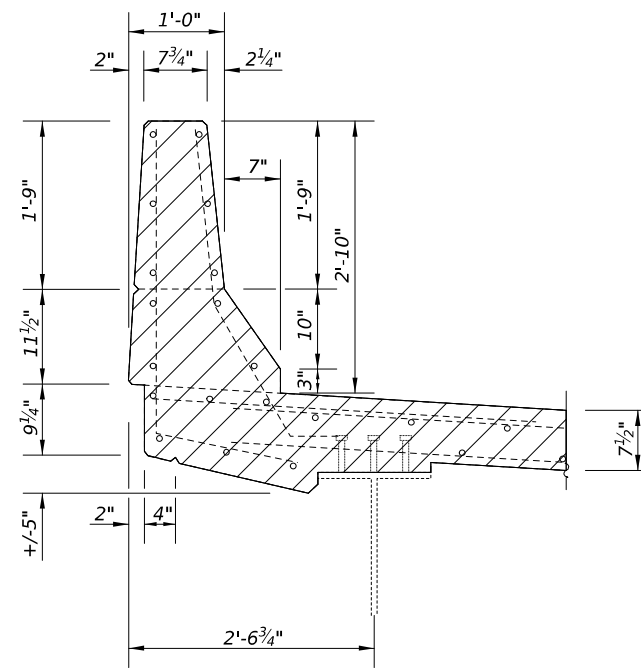
SECTION A-A
CONCRETE REMOVAL
(South Abutment)



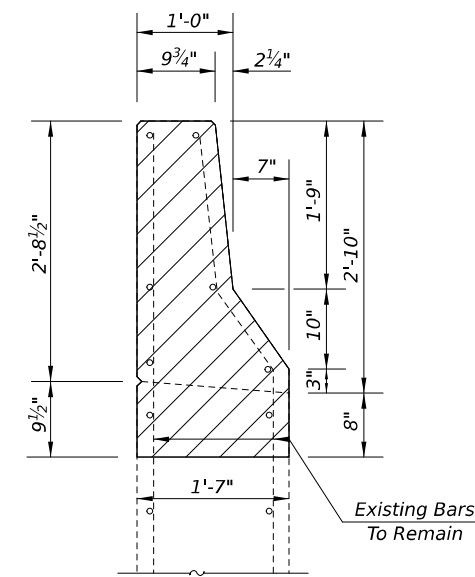
SECTION B-B
CONCRETE REMOVAL
(North Abutment)



SECTION C-C
CONCRETE REMOVAL



SECTION D-D
CONCRETE REMOVAL



SECTION E-E
CONCRETE REMOVAL



CONCRETE REMOVAL



APPROACH SLAB REPAIR (PARTIAL DEPTH)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	9.3

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

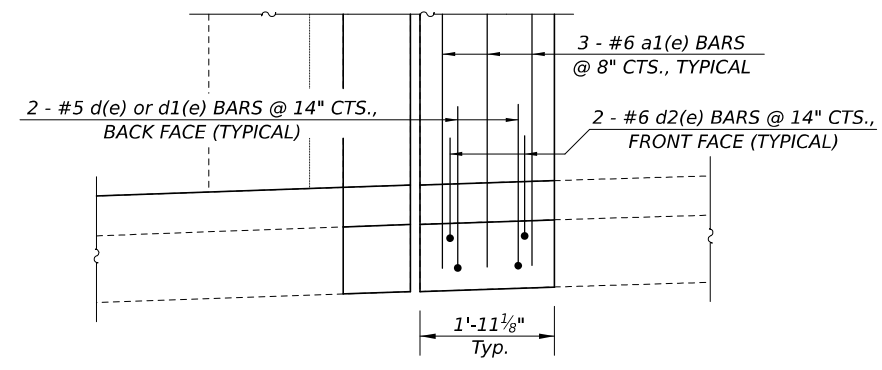
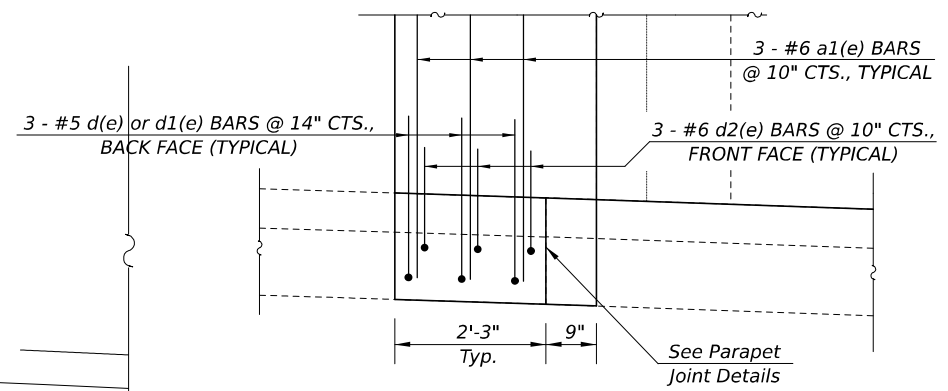
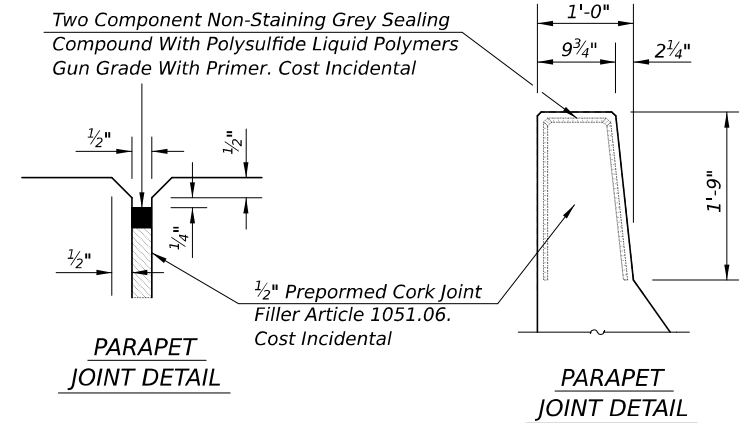
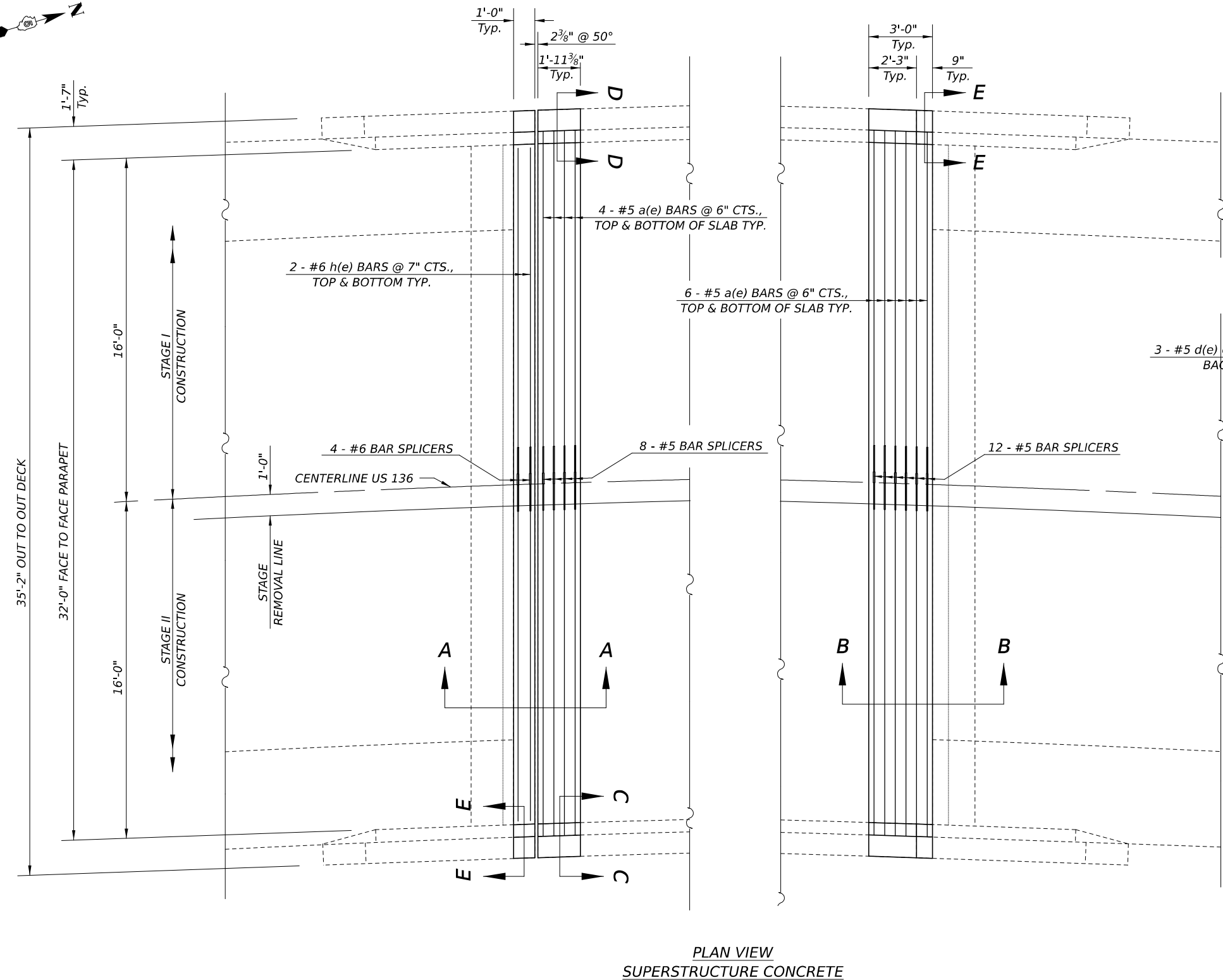
CONCRETE REMOVAL DETAILS
S.N. 023-0026

SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	24
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

CONCRETE SUPERSTRUCTURE PLAN
S.N. 023-0026



PLAN VIEW
SUPERSTRUCTURE CONCRETE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE SUPERSTRUCTURE PLAN
S.N. 023-0026

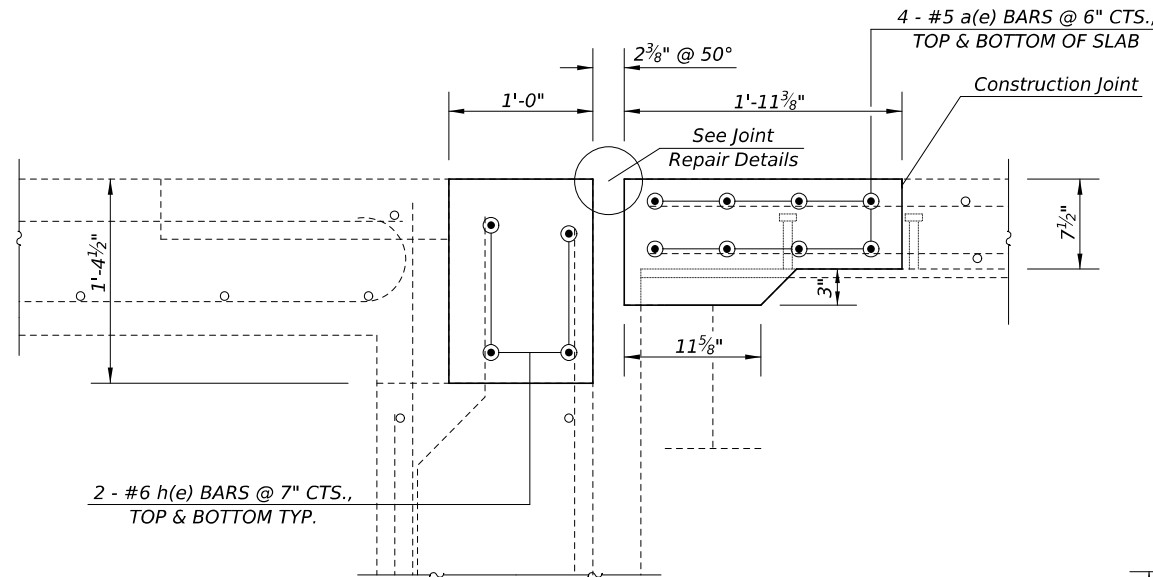
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	25
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

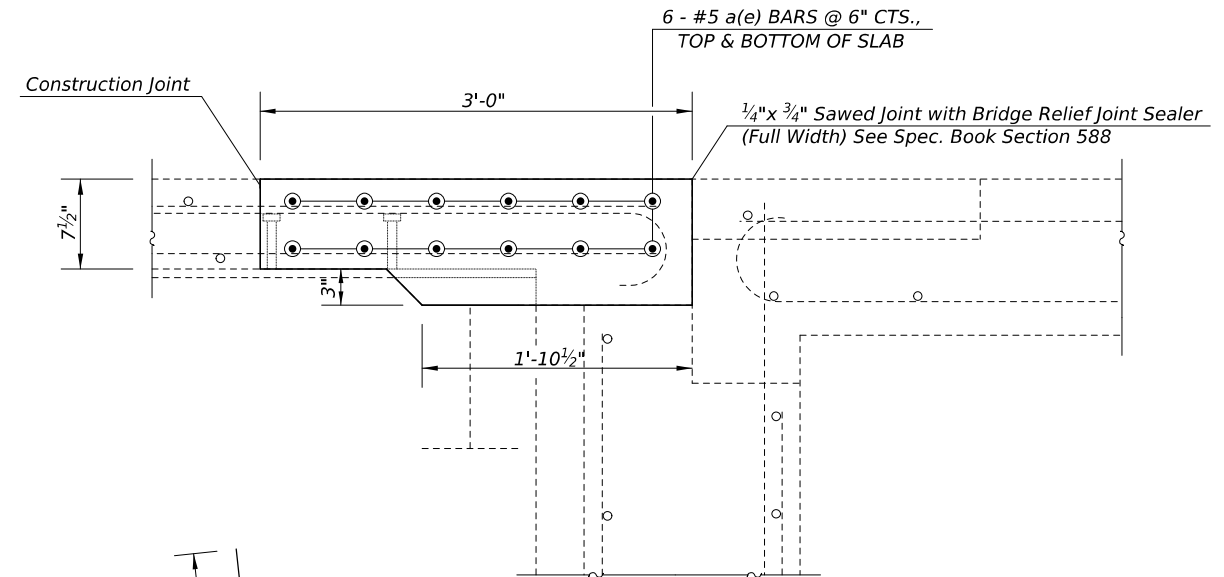
* DOUGLAS & EDGAR

CONCRETE SUPERSTRUCTURE DETAILS

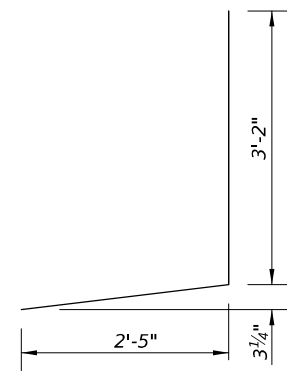
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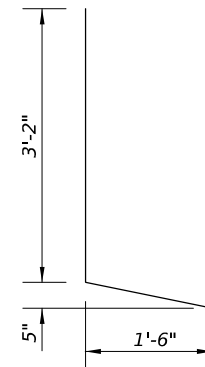
**SECTION A-A
CONCRETE SUPERSTRUCTURE
(South Abutment)**



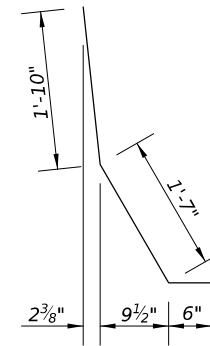
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CONCRETE SUPERSTRUCTURE
(North Abutment)**



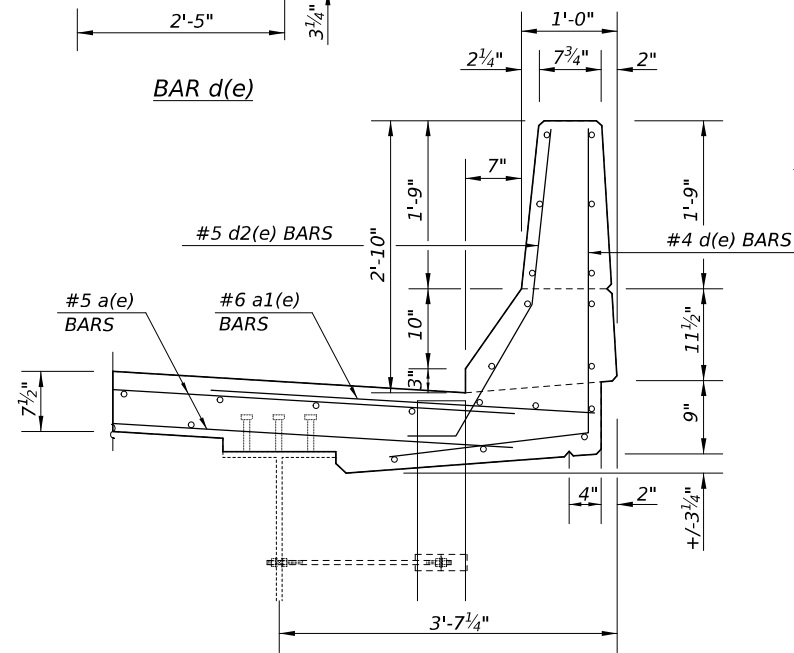
BAR d(e)



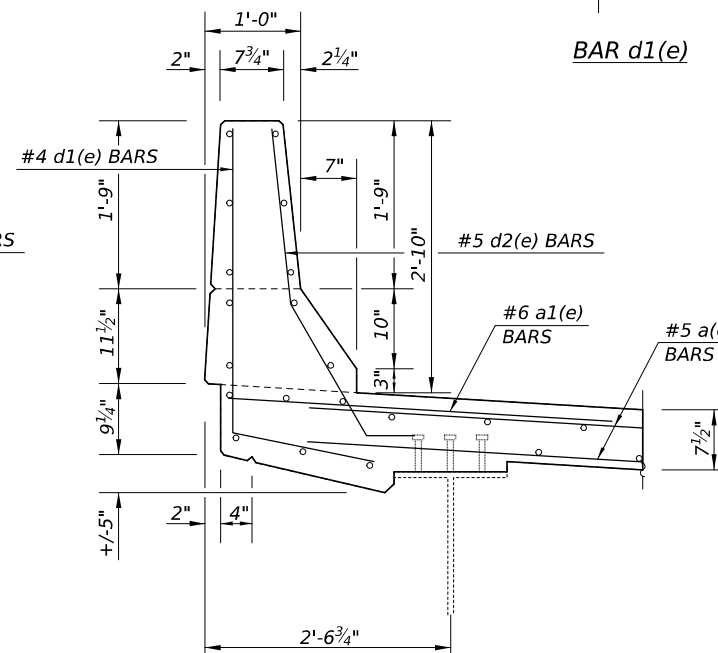
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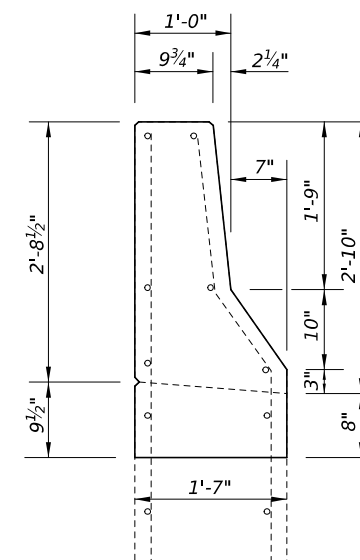
BAR d2(e)



**SECTION C-C
CONCRETE SUPERSTRUCTURE**



**SECTION D-D
CONCRETE SUPERSTRUCTURE**



**SECTION E-E
CONCRETE SUPERSTRUCTURE**

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE	
a(e)	40	#5	16'-7"	—	
a1(e)	12	#6	4'-0"	—	
h(e)	8	#6	15'-10"	—	
d(e)	5	#4	5'-7"	┘	
d1(e)	5	#4	4'-8"	┘	
d2(e)	10	#5	3'-11"	┘	
ITEM					
REINFORCEMENT BARS, EPOXY COATED				UNIT	TOTAL
				POUND	1,150.0
CONCRETE SUPERSTRUCTURE				CU YD	9.2
BAR SPLICERS				EACH	24.0
PROTECTIVE COAT				SQ YD	26.0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

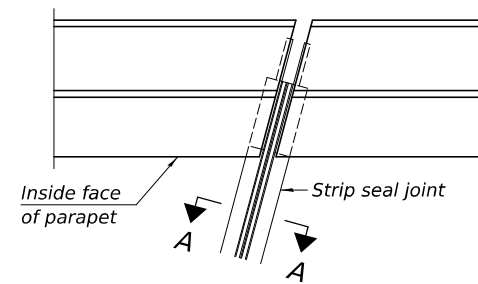
**CONCRETE SUPERSTRUCTURE DETAILS
S.N. 023-0026**

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

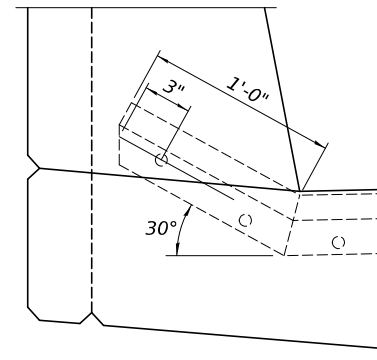
* DOUGLAS & EDGAR

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



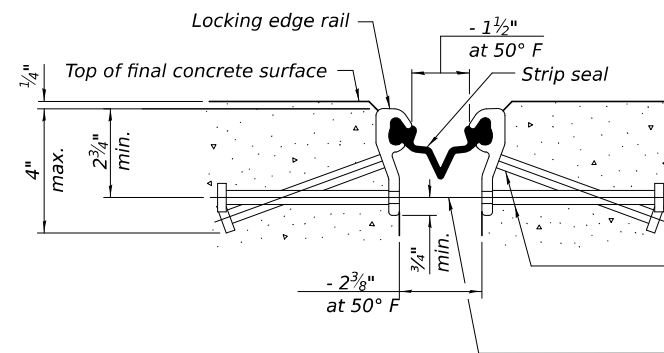
FOR SKEWS ≤ 30°

PLAN AT PARAPET



DETAIL A

(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)



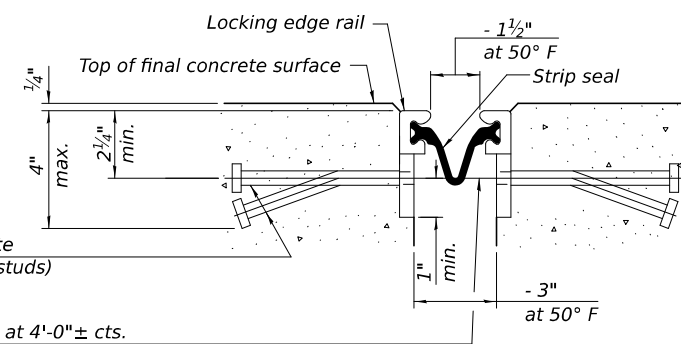
SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

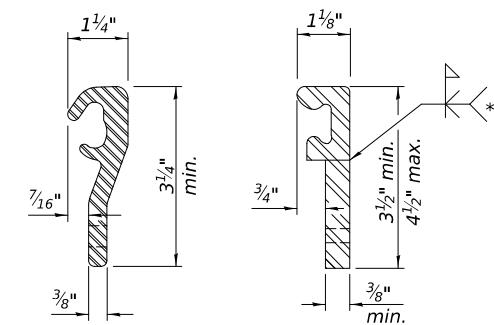
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

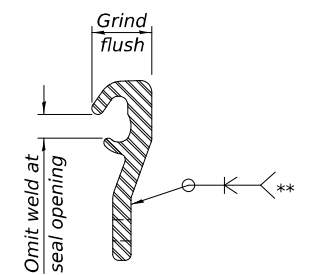


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	36.0

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EJ-SS - MODIFIED 4-4-2025

USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

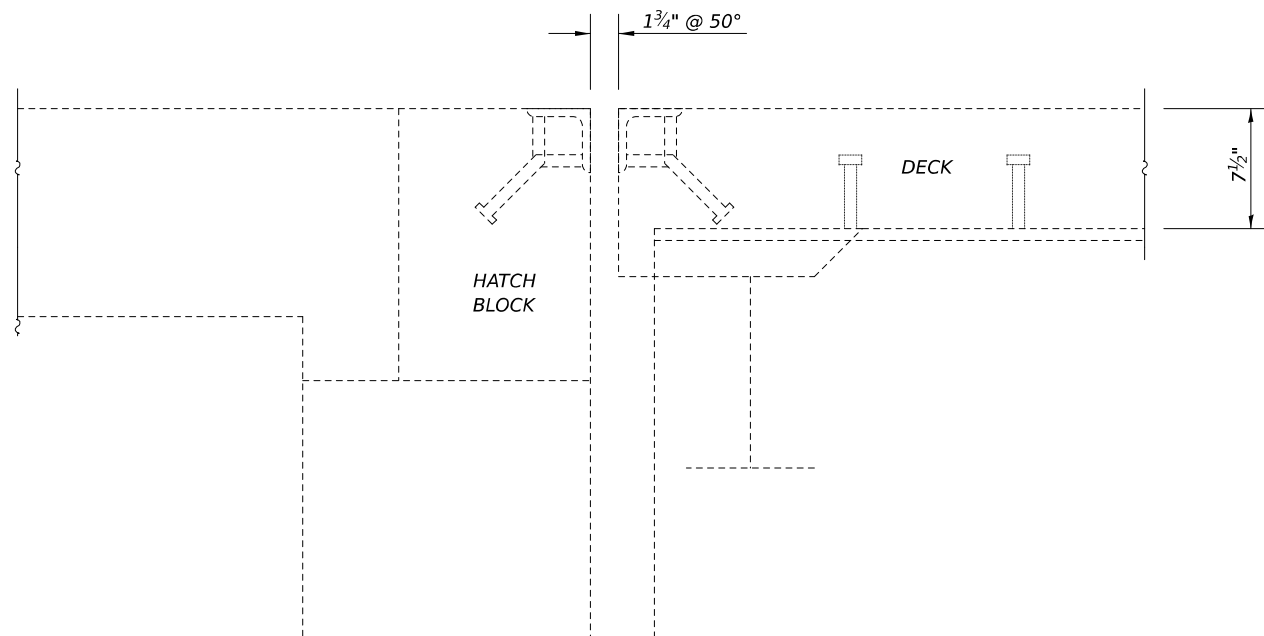
PREFORMED JOINT STRIP SEAL
 S.N. 023-0026

SCALE: SHEET 8 OF 13 SHEETS STA. TO STA.

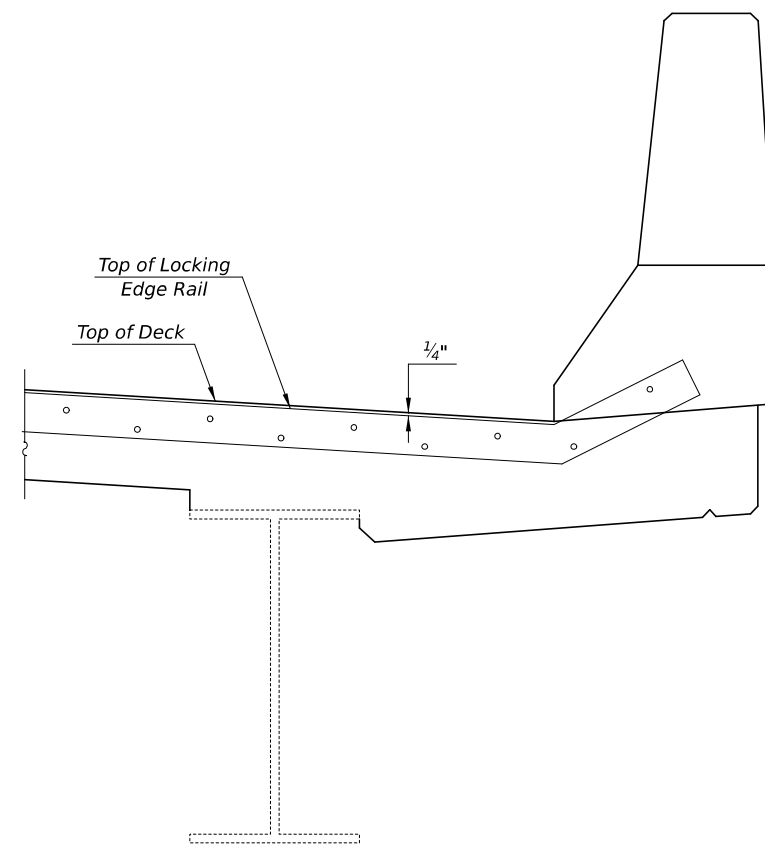
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	27
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

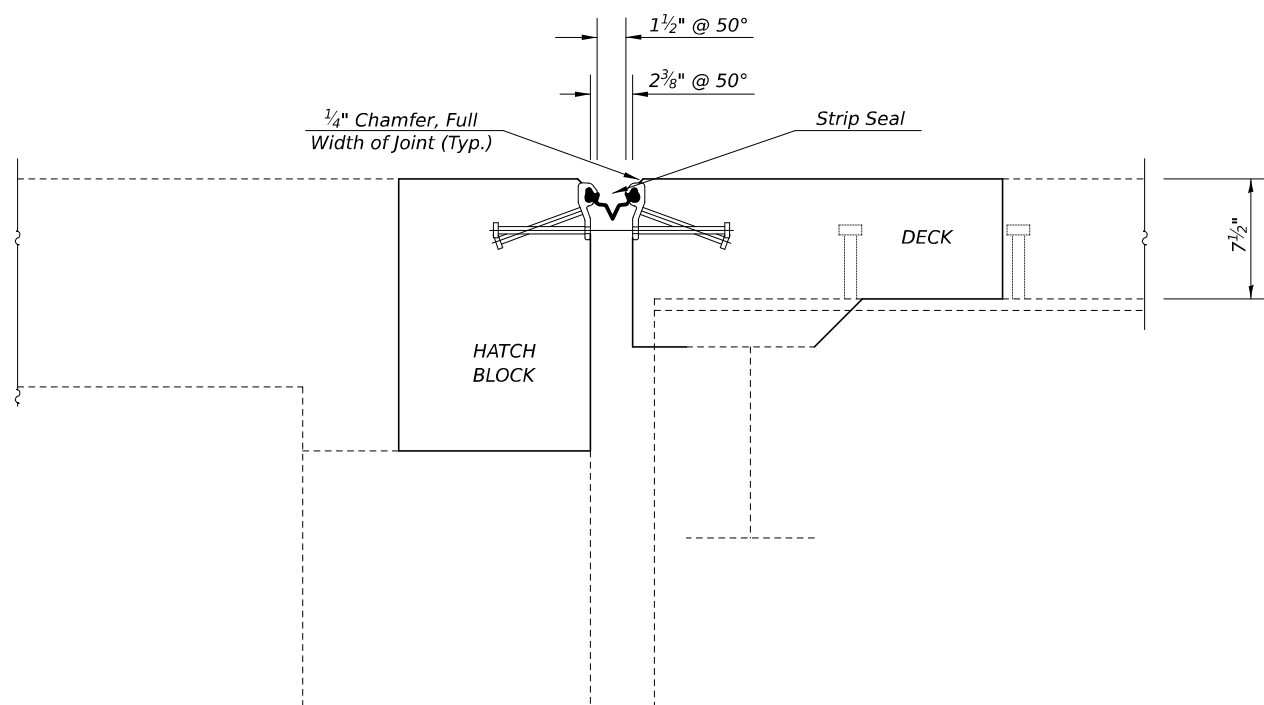
JOINT REPLACEMENT DETAIL
S.N. 023-0026



SOUTH ABUTMENT
SECTION AT EXISTING JOINT
SHOWING ROLLED RAIL JOINT



SECTION AT PROPOSED JOINT
SHOWING ROLLED RAIL JOINT



SOUTH ABUTMENT
SECTION AT PROPOSED JOINT
SHOWING ROLLED RAIL JOINT

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USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN - ESS	REVISED -
	CHECKED - TJB	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

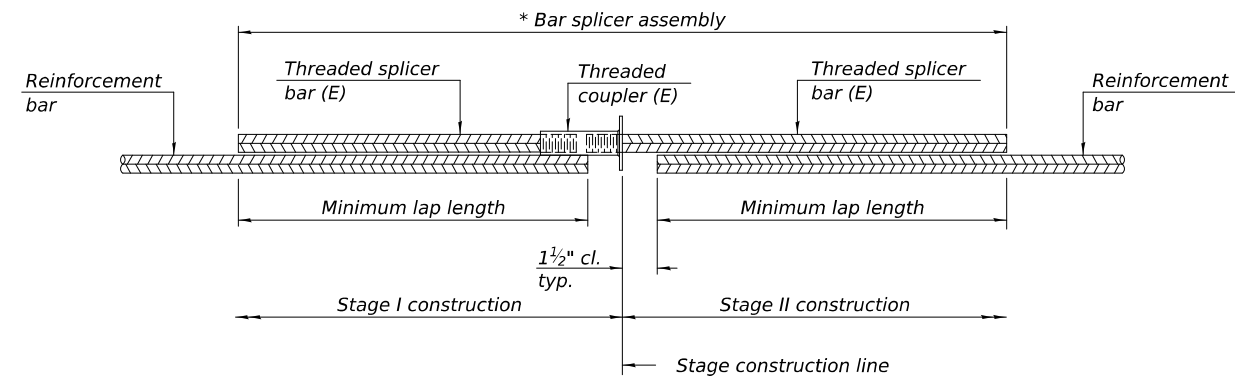
JOINT REPLACEMENT DETAILS
S.N. 023-0026

SCALE: SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	28
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT

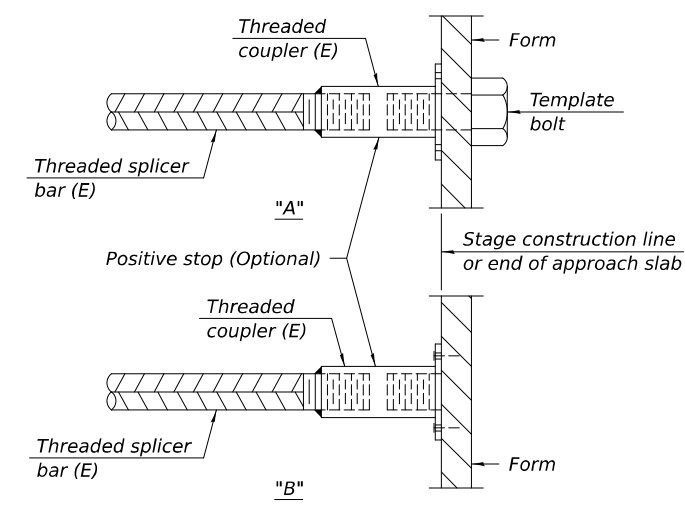
* DOUGLAS & EDGAR



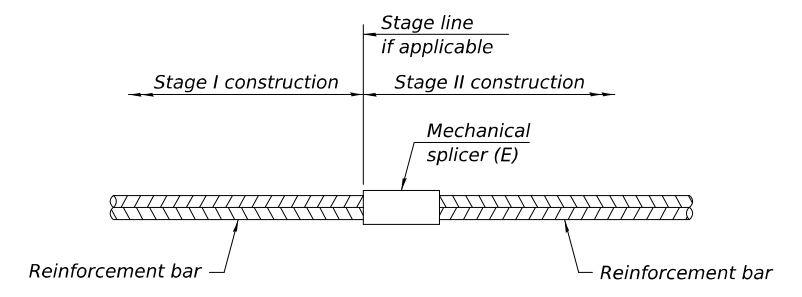
STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length
 * Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
HATCH BLOCKS	#6	4	4'-0"
DECK ENDS	#5	20	3'-6"

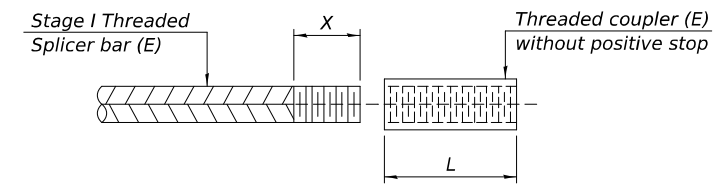


INSTALLATION AND SETTING METHODS
 "A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

4-4-2025

USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

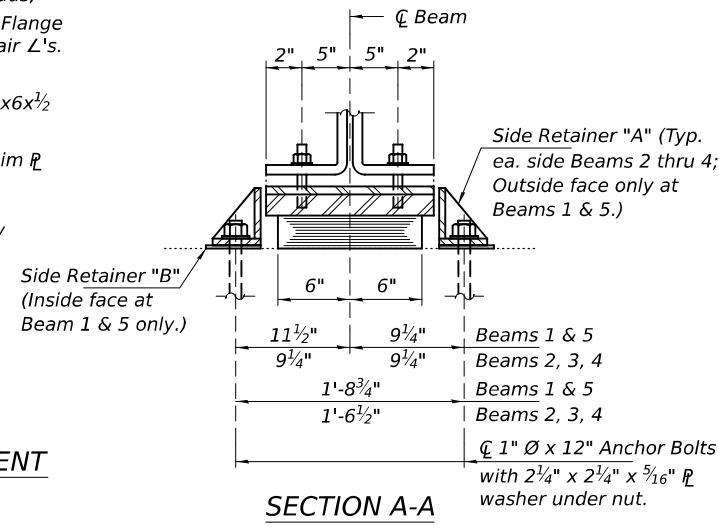
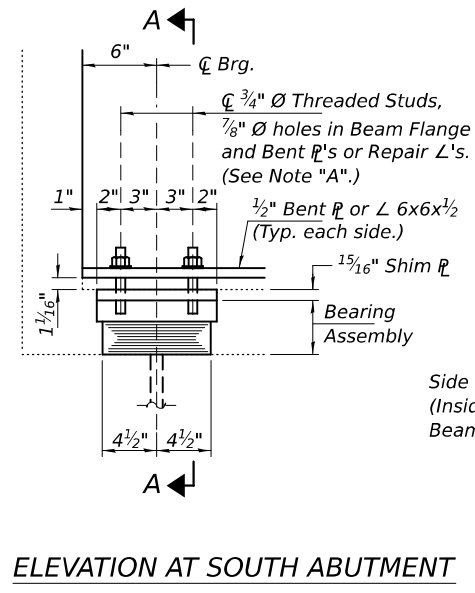
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 023-0026

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	29
CONTRACT NO. 70H62				

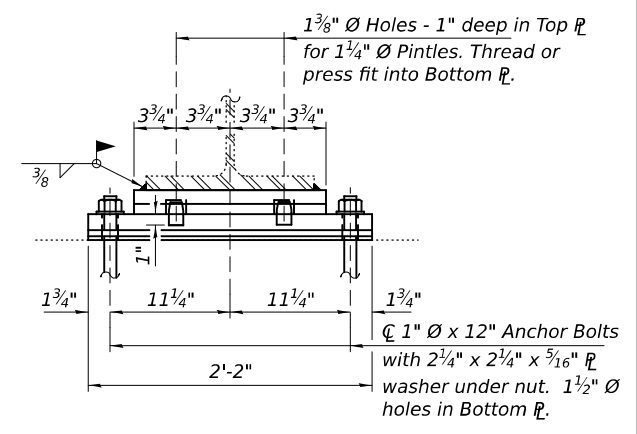
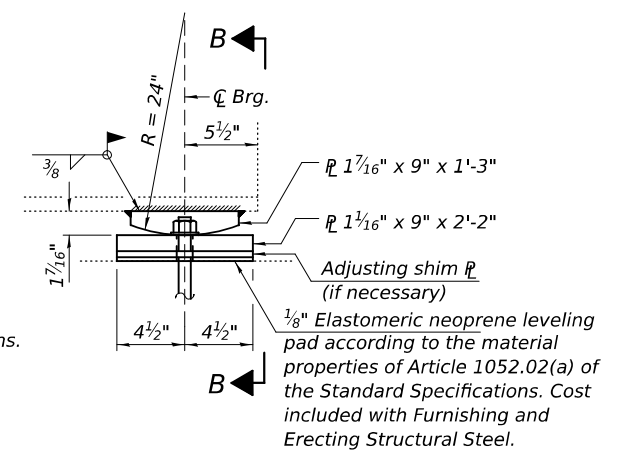
820 & 836 ILLINOIS FED. AID PROJECT * DOUGLAS & EDGAR



BEAM REACTIONS

R _ℓ	(K)	39.8
R _L	(K)	40.6
Imp.	(K)	10.7
R (Total)	(K)	91.1

Notes:
 New fixed bearings, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 50 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



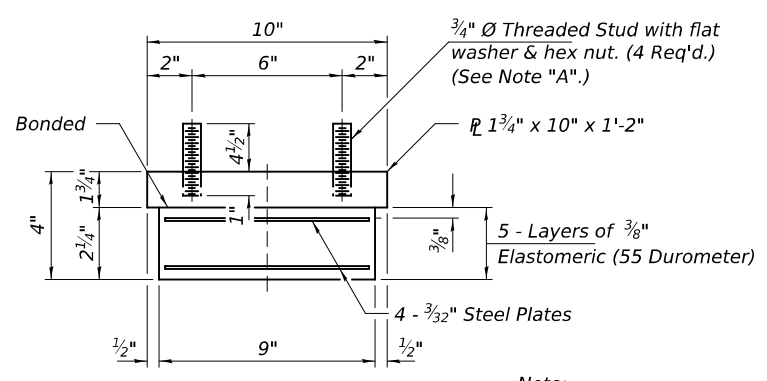
ELEVATION AT NORTH ABUTMENT

SECTION B-B

TYPE I ELASTOMERIC EXPANSION BEARING

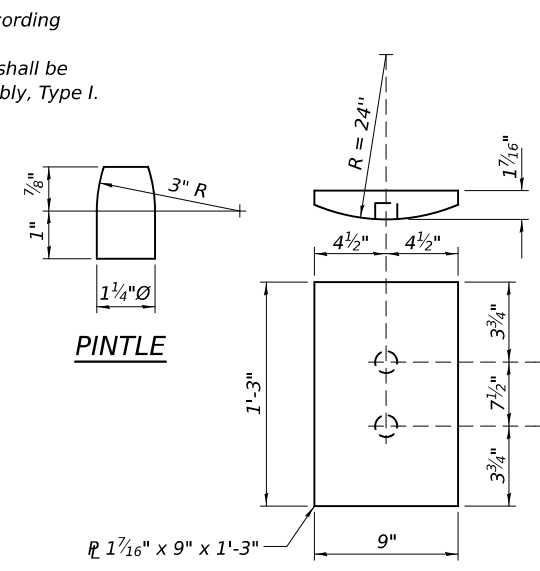
(5 Required)

Note "A":
 3/4" Ø Threaded Studs shall be field installed thru the Bent ℓ or Repair ℓ and into the Brg. ℓ after the Brg. Assembly has been positioned.

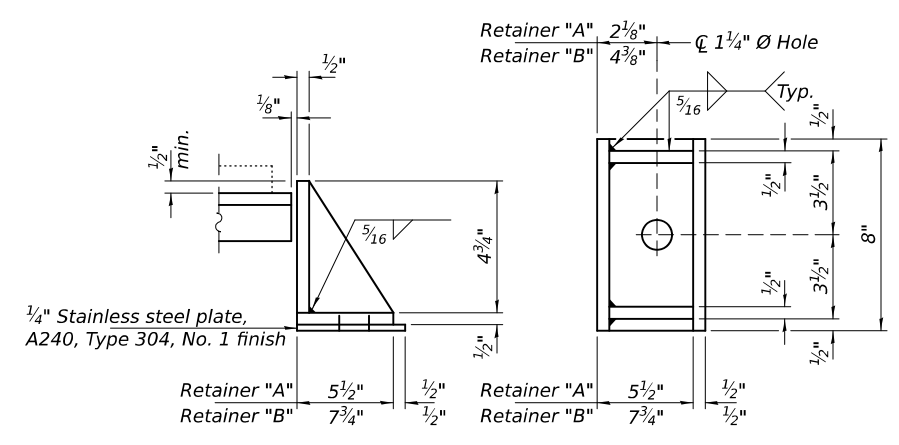
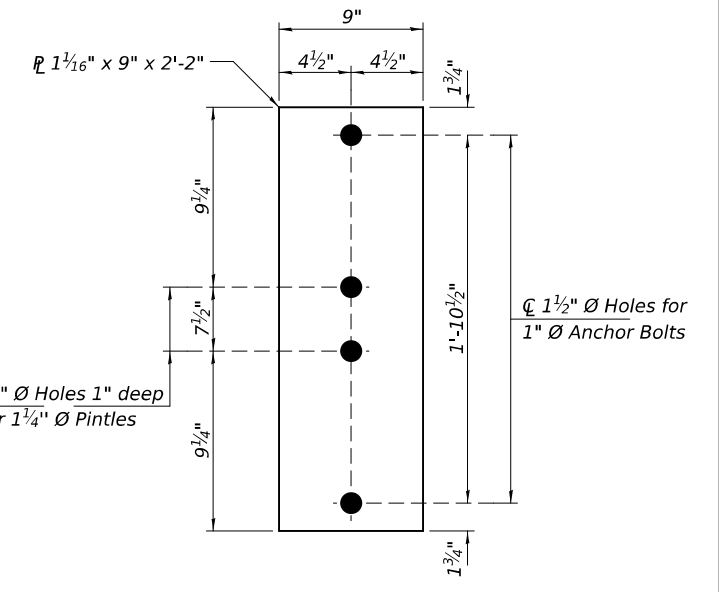


Note:
 Shim plates shall not be placed under Bearing Assembly.

BEARING ASSEMBLY



FIXED BEARING
 (5 Required)



SIDE RETAINER "A" & "B" DETAILS

Side Retainer "A" - 8 Required.
 Side Retainer "B" - 2 Required.
 (Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.)

EXISTING BEARING REMOVAL DETAIL AT SOUTH ABUTMENT (EXP.)

Cost included with Jack and Remove Existing Bearings.

EXISTING BEARING REMOVAL DETAIL AT NORTH ABUTMENT (FIXED)

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	5
Jack and Remove Existing Bearings	Each	10
Furnishing and Erecting Structural Steel	Pound	3530
Anchor Bolts, 1"Ø	Each	20

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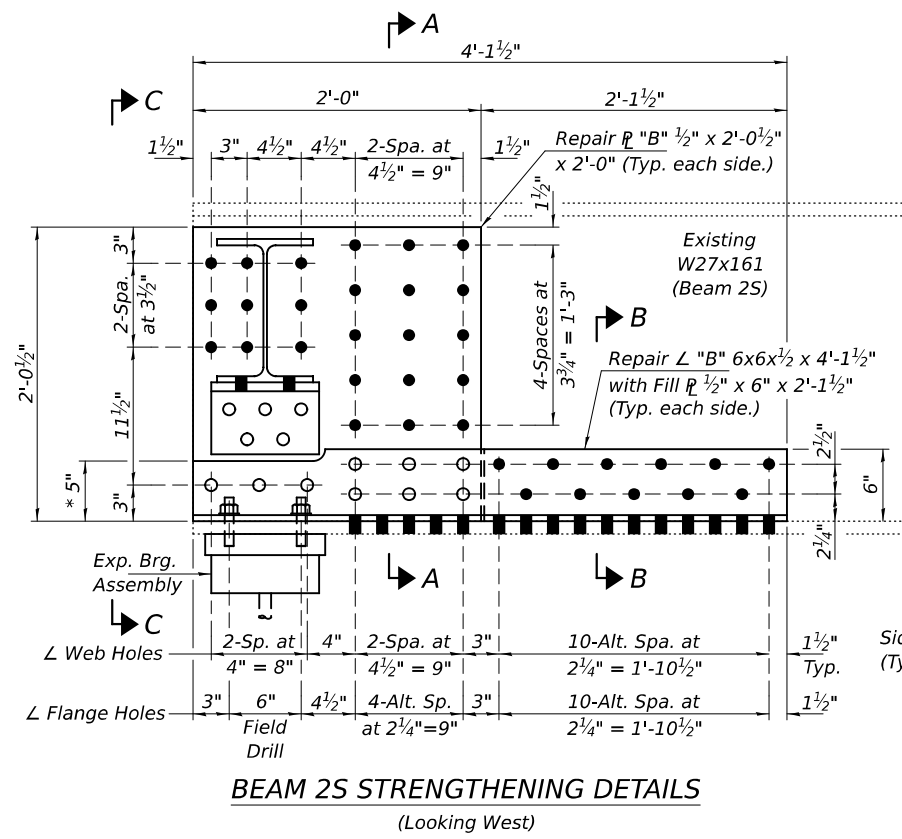
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CHECKED - CAL	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISOR -
CHECKED - SMR CAL	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

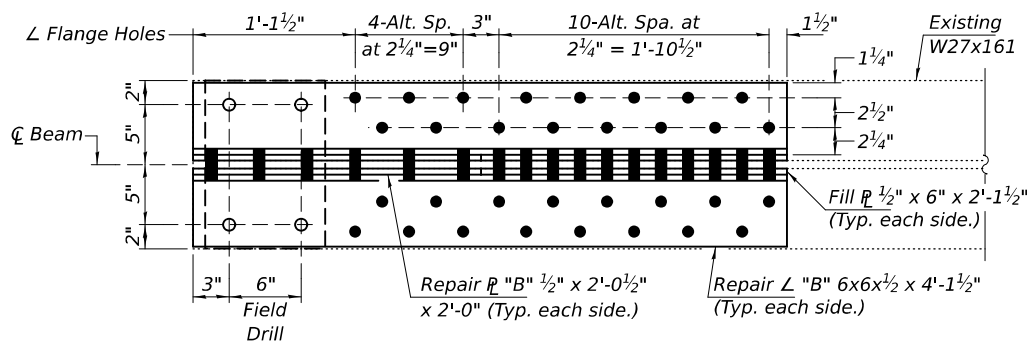
BEARING REPLACEMENT DETAILS
SN 023-0026

F.A.P. RTE. 836	SECTION (22)BR-1,(115)BR-1	COUNTY EDGAR	TOTAL SHEETS 36	SHEET NO. 31
CONTRACT NO. 70H62				
ILLINOIS FED. AID PROJECT				

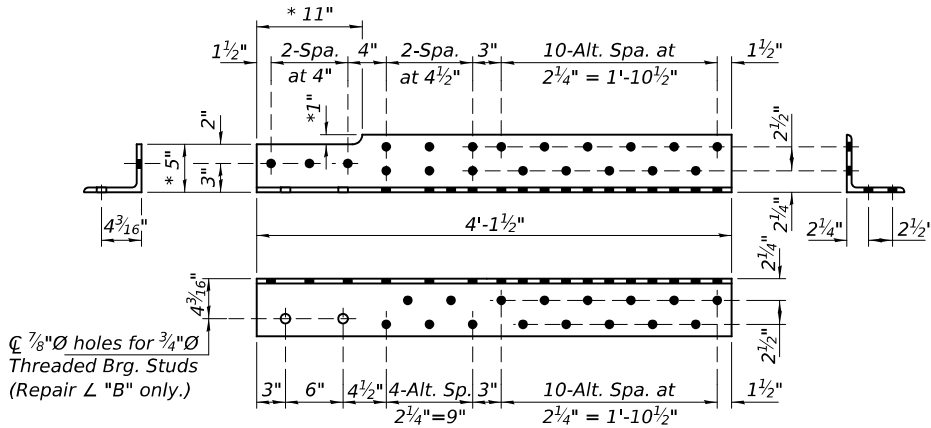
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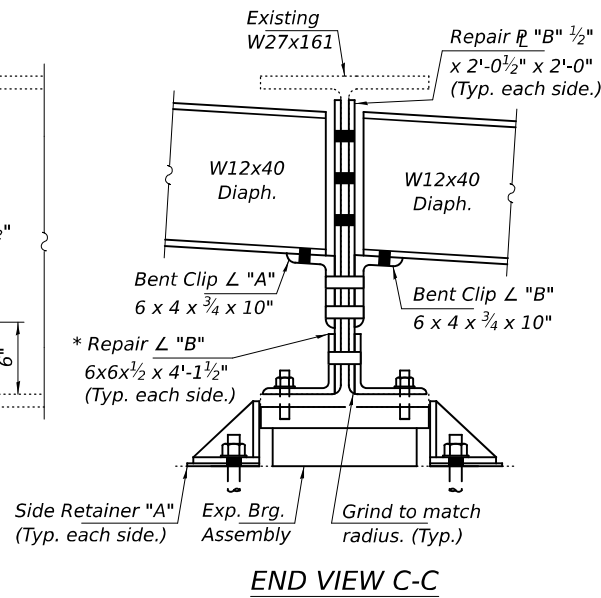
BEAM 2S STRENGTHENING DETAILS
(Looking West)



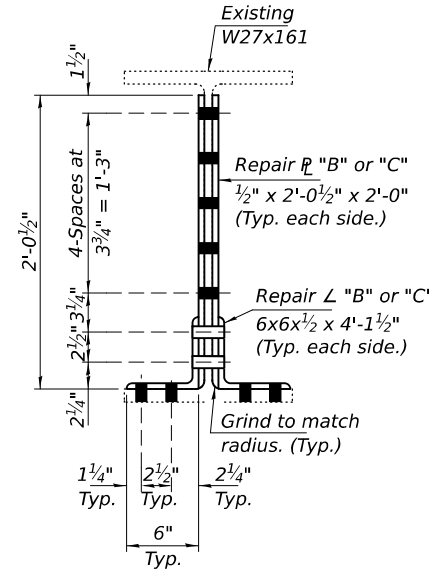
BEAM 2S PLAN VIEW
(Brg. Side Retainers not shown for clarity.)



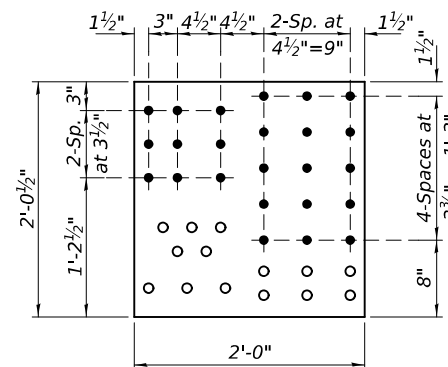
REPAIR ANGLE "B" & "C" DETAILS
 L "B" 6x6x1/2 x 4'-1 1/2" (2 Req'd; 1 as shown, 1 opposite.)
 L "C" 6x6x1/2 x 4'-1 1/2" (2 Req'd; 1 as shown, 1 opposite.)



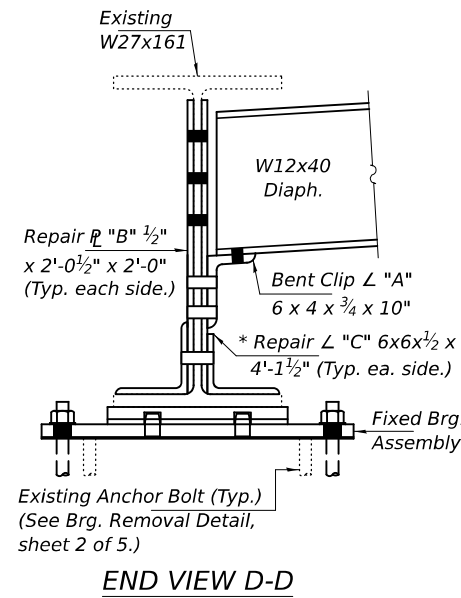
END VIEW C-C



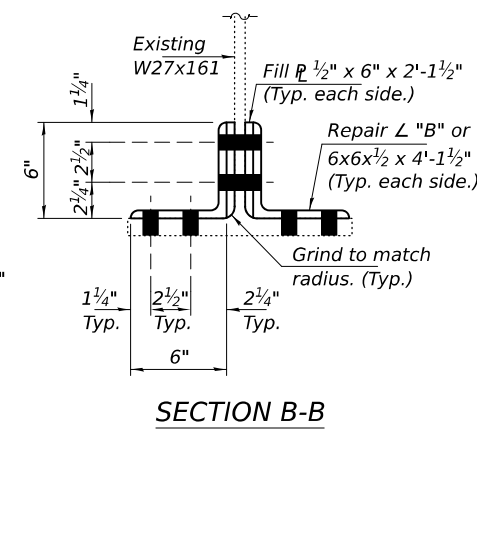
SECTION A-A



REPAIR PLATE "B" & "C" DETAILS
 L "B" 6x6x1/2 x 4'-1 1/2" (2 Req'd)
 L "C" 6x6x1/2 x 4'-1 1/2" (2 Req'd)

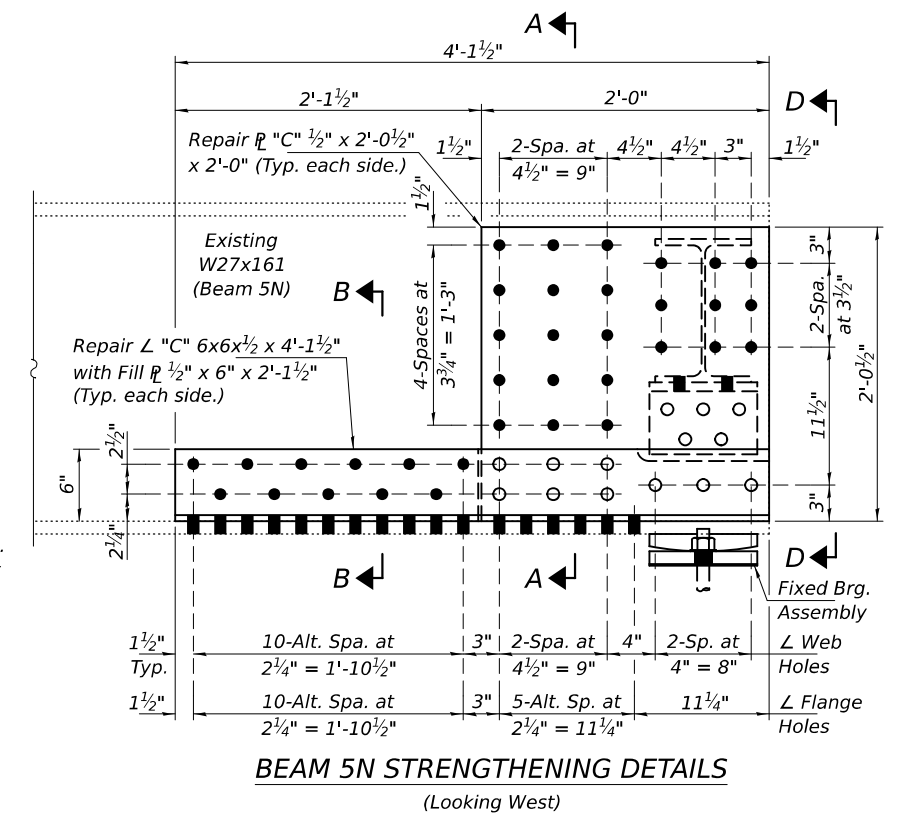


END VIEW D-D

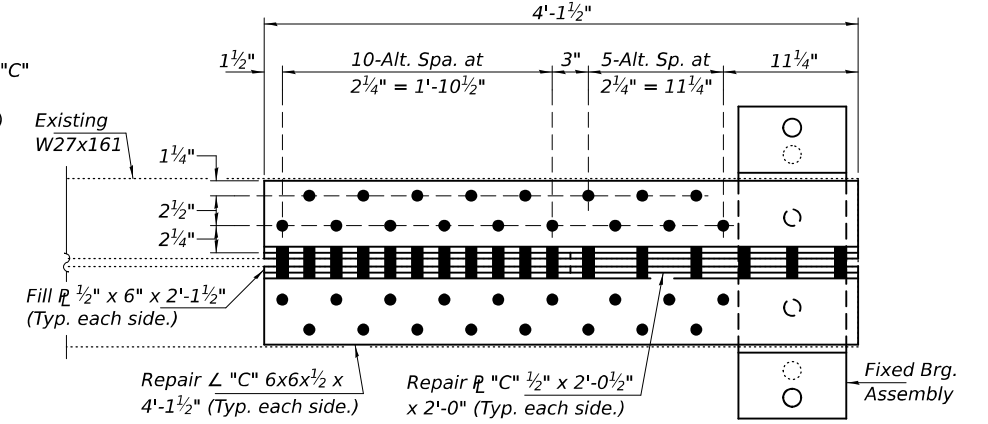


SECTION B-B

* Trim Repair L as req'd to miss new Clip L.



BEAM 5N STRENGTHENING DETAILS
(Looking West)



BEAM 5N PLAN VIEW

NOTES:
 For Diaphragm and Clip L Details, see sheet 1 of 5.
 For Bearing Assembly & Side Retainer Details, see sheet 2 of 5.
 All plates, fill plates, angles and bolts to be paid for as Structural Steel Repair.

BOLT HOLE LEGEND

- - Shop Drilled holes in new steel.
- - Field Drilled holes in Repair L's using holes in new Repair L's & Clip L's as template.

DESIGNED - SMR	EXAMINED	DATE - JANUARY 22, 2026
CHECKED - CAL	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISER -
CHECKED - SMR CAL	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

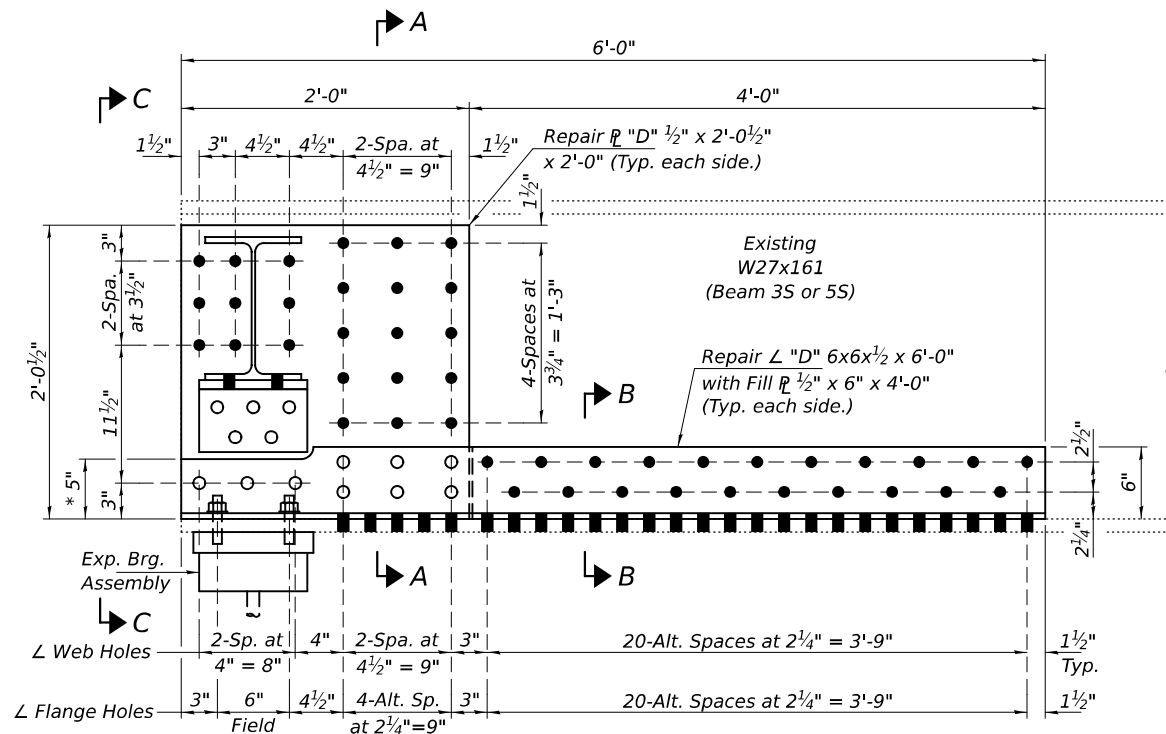
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DATE - JANUARY 22, 2026
REVISER -
REVISER -

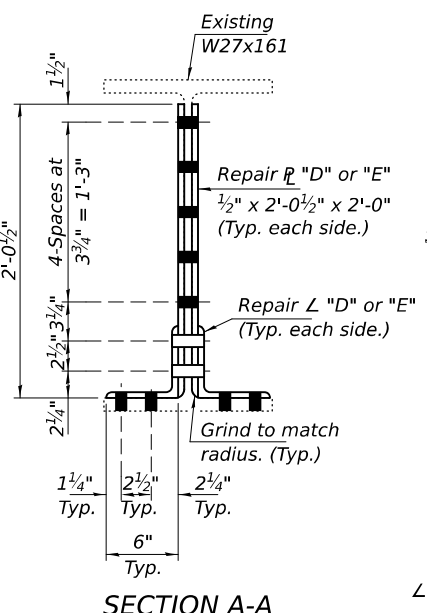
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR DETAILS
 SN 023-0026
 SHEET 4 OF 5 SHEETS

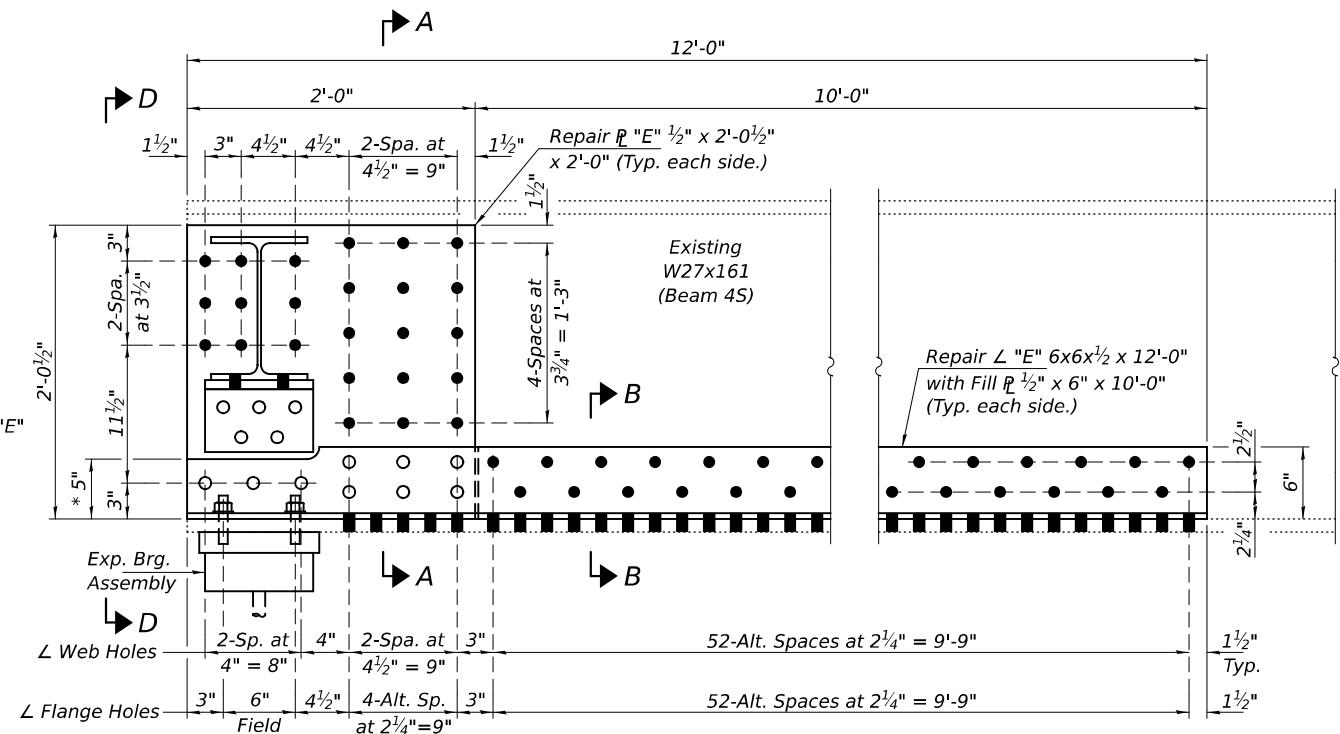
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836	(22)BR-1,(115)BR-1	EDGAR	36	32A
CONTRACT NO. 70H62				
ILLINOIS FED. AID PROJECT				



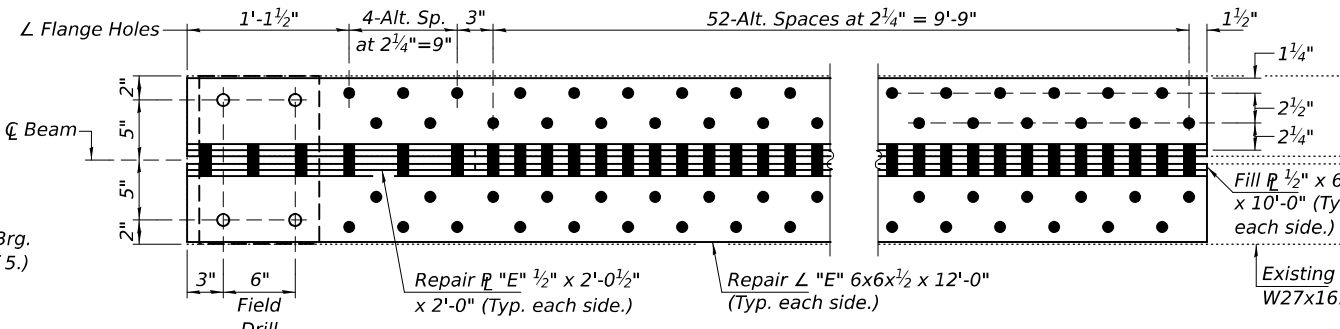
BEAM 3S & 5S STRENGTHENING DETAILS
(Looking West)
(Beam 3S shown, Beam 5S similar except as noted.)



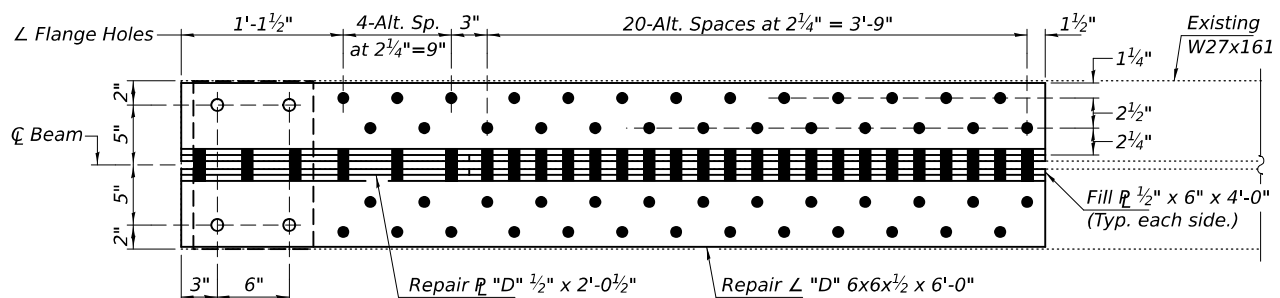
SECTION A-A



BEAM 4S STRENGTHENING DETAILS
(Looking West)



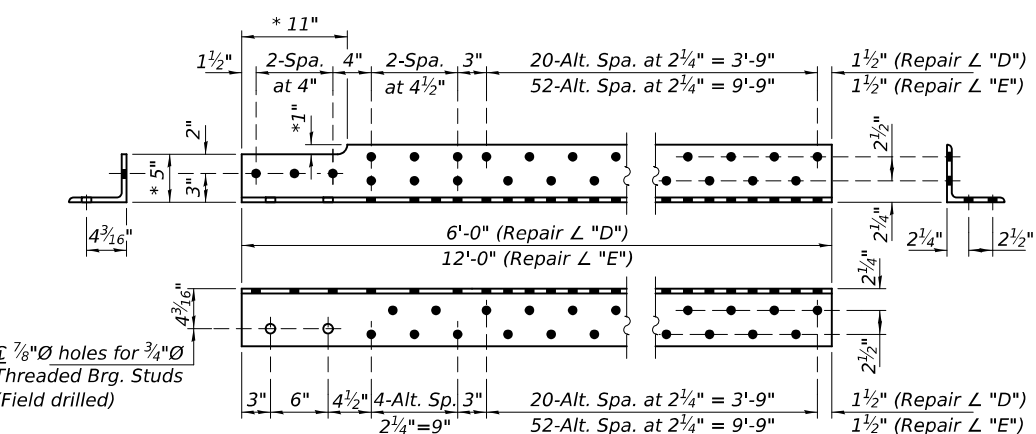
BEAM 4S PLAN VIEW
(Brg. Side Retainers not shown for clarity.)



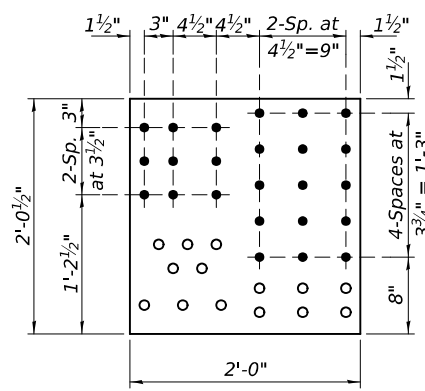
BEAM 3S & 5S PLAN VIEW
(Brg. Side Retainers not shown for clarity.)

* Trim Repair L as req'd to miss new Clip L.
** Existing Anchor Bolt (See Brg. Removal Detail, sheet 2 of 5.)

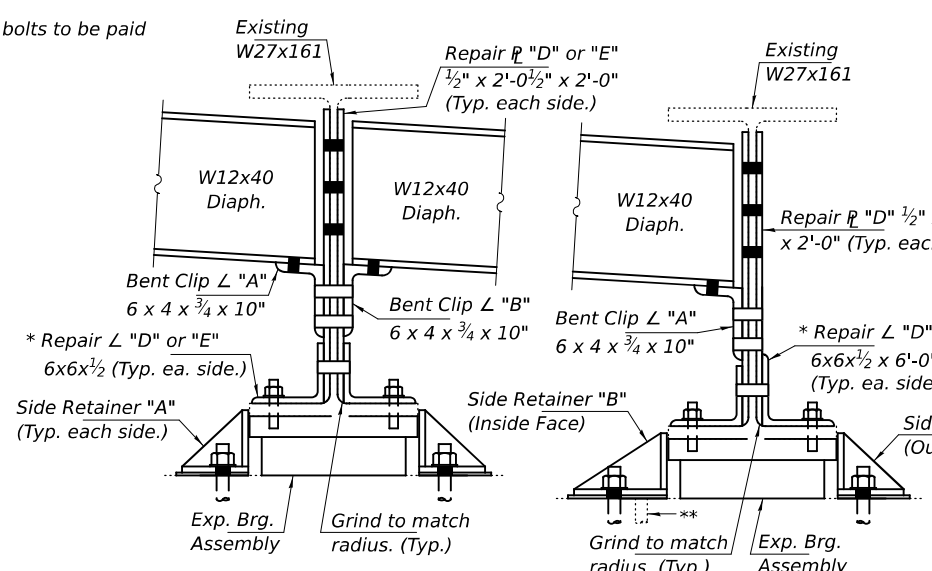
NOTES:
For Diaphragm and Clip L Details, see sheet 1 of 5.
For Bearing Assembly & Side Retainer Details, see sheet 2 of 5.
All plates, fill plates, angles and bolts to be paid for as Structural Steel Repair.



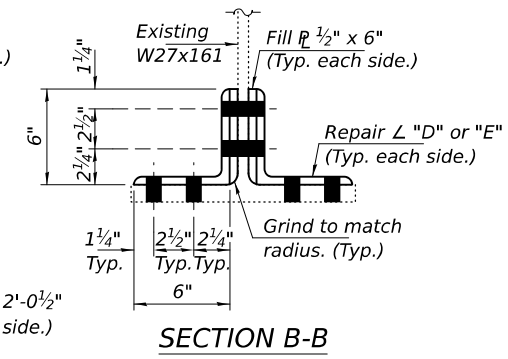
REPAIR ANGLE "D" & "E" DETAILS
L "D" 6x6x1/2 x 6'-0" (4 Req'd; 2 as shown, 2 opposite.)
L "E" 6x6x1/2 x 12'-0" (2 Req'd; 1 as shown, 1 opposite.)



REPAIR PLATE "D" & "E" DETAILS
L "D" 1/2" x 2'-0 1/2" x 2'-0" (4 Req'd)
L "E" 1/2" x 2'-0 1/2" x 2'-0" (2 Req'd)



END VIEW C-C AT BEAM 3S
END VIEW D-D AT BEAM 4S



SECTION B-B

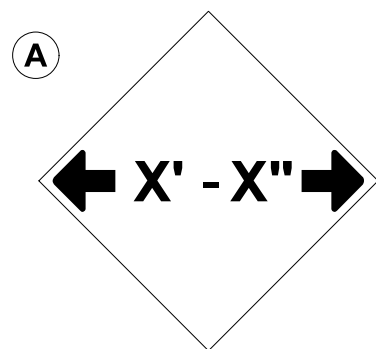
BOLT HOLE LEGEND
● - Shop Drilled holes in new steel.
○ - Field Drilled holes in Repair L's using holes in new Repair L's & Clip L's as template.

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DESIGNED - SMR	EXAMINED	DATE - JANUARY 22, 2026
CHECKED - CAL	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - SMR CAL	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL REPAIR DETAILS SN 023-0026	F.A.P. RTE. 836	SECTION (22)BR-1,(115)BR-1	COUNTY EDGAR	TOTAL SHEETS 36	SHEET NO. 32B
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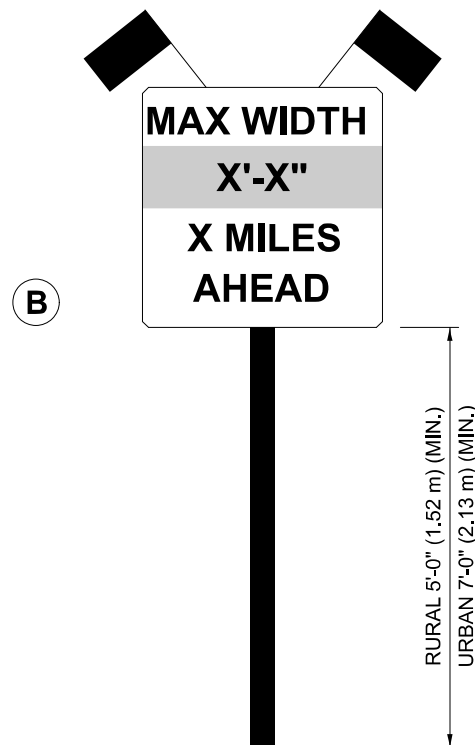
SHEET 5 OF 5 SHEETS		ILLINOIS		FED. AID PROJECT	
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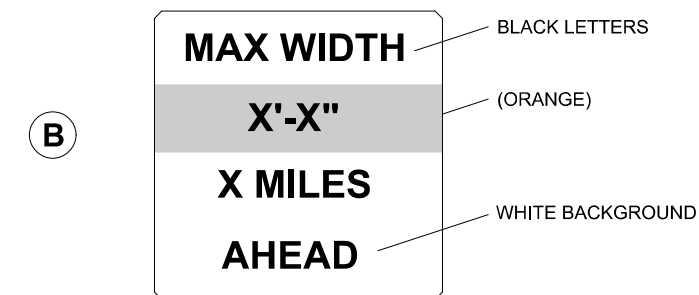
W12-2(O)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



**W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS**

S.N. 021-0049

STAGE WIDTHS:

STAGE 1 WIDTH = 12'-0" actual; 10'-6" posted; REQUIRED
STAGE 2 WIDTH = 13'-0" actual; 11'-6" Posted: REQUIRED

S.N. 023-0026

STAGE WIDTHS:

STAGE 1 WIDTH = 12'-0" actual; 10'-6" posted; REQUIRED
STAGE 2 WIDTH = 13'-0" actual; 11'-6" Posted: REQUIRED

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: X7200201 (Sheet)
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USER NAME = eric.shawler	DESIGNED -	REVISED - 05/08
	DRAWN -	REVISED - 10/08 KJT
	CHECKED -	REVISED - 07/09 KJT
PLOT DATE = 9/30/2025	DATE -	REVISED - 03/11 KJT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
S.N. 021-0049 & S.N. 023-0026**

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

DISTRICT 5 DETAIL NO. X7200201

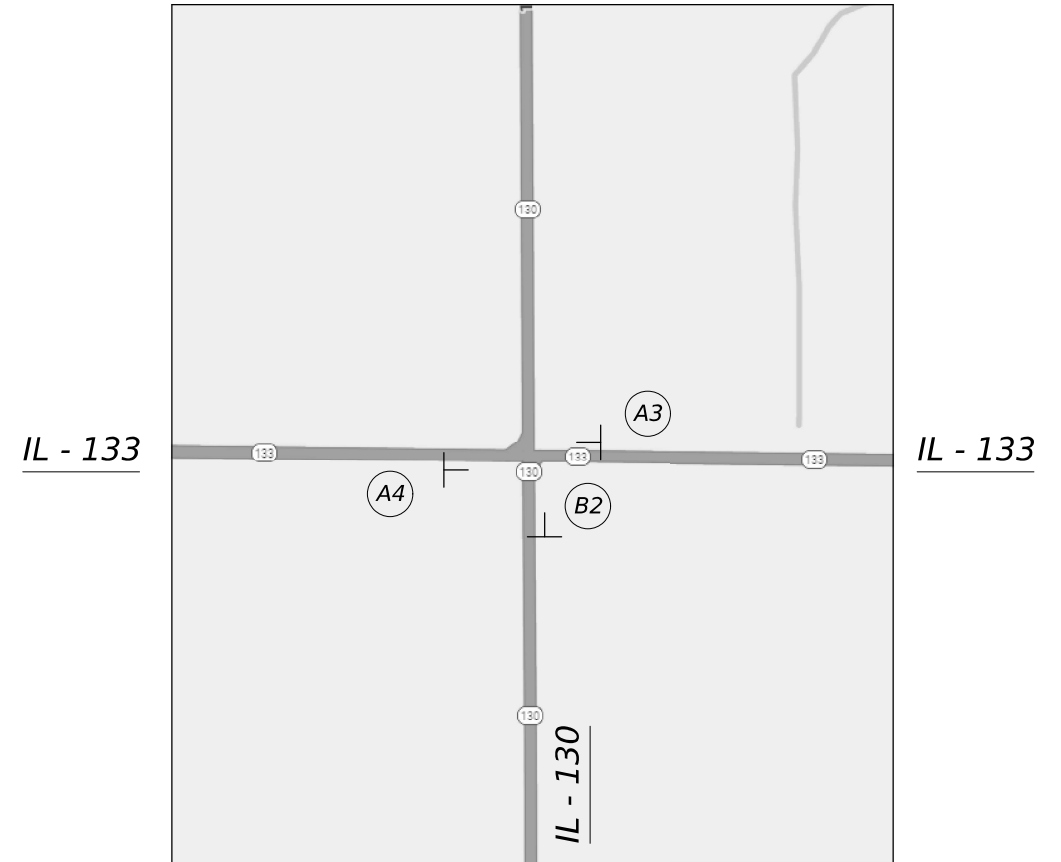
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	33
			CONTRACT NO. 70H62	
820 & 836	ILLINOIS	FED. AID PROJECT		

WIDTH RESTRICTION SIGNING LOCATIONS
S.N. 021-0049

IL - 130 / US - 36 INTERSECTION



IL - 130 / IL - 133 INTERSECTION



- B1** SOUTH OF IL-130/US-36 INTERSECTION ON IL-130
ERECT 100FT BEFORE CHARELSTON/OLONEY GREENBOARD
5 MILES AHEAD 5 MILE
- A1** EAST OF IL-130/US-36 INTERSECTION ON US-36
ERECT 75FT PRIOR DECATUR/CHARELSTON GREENBOARD
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN ←
- A2** WEST OF IL-130/US-36 INTERSECTION ON US-36
ERECT NEAR INDIANAPOLIS/CHARESTON GREENBOARD
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN →

- B2** SOUTH OF IL-130/IL-133 INTERSECTION ON IL-130
ERECT 50FT BEFORE ARCOLA/PARIS GREENBOARD
2 MILES AHEAD 2 MILE
- A3** EAST OF IL-130/IL-133 INTERSECTION ON IL-133
ERECT 75FT PRIOR CHARLESTON/URBANA GREENBOARD
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN →
- A4** WEST OF IL-130/IL-133 INTERSECTION ON IL-133
ERECT 75FT PRIOR URBANA/CHARESTON GREENBOARD
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN ←

MODEL: Sheet1 [Sheet]
FILE NAME: c:\pw\work\project\shawleresid1094673\0570H62-Shit-Detail_X7200201.dgn

USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING LOCATIONS
S.N. 021-0049**

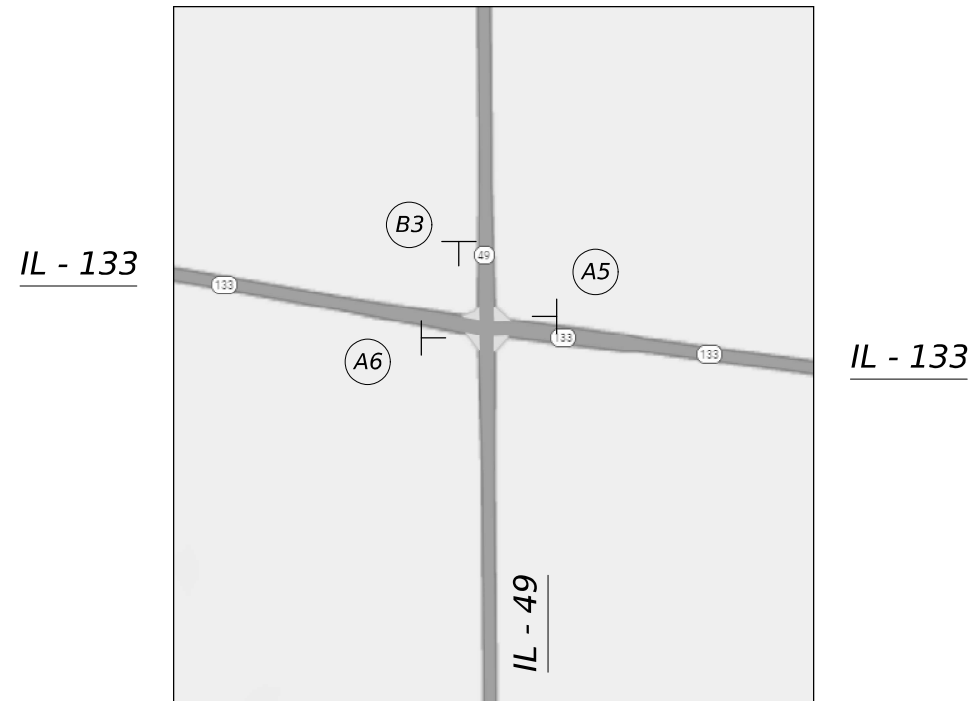
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	34
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

* DOUGLAS & EDGAR

WIDTH RESTRICTION SIGNING LOCATIONS
S.N. 023-0026

IL - 49 / IL - 133 INTERSECTION



IL - 49 / IL - 16 INTERSECTION



- B3** NORTH OF IL-49/IL-133 INTERSECTION ON IL-49
ERECT 100FT BEFORE PARIS/ARCOLA GREENBOARD
3 MILES AHEAD 3 MILE
- A5** EAST OF IL-49/IL-133 INTERSECTION ON IL-133
ERECT 75FT PRIOR CASEY/KANKAKEE GREENBOARD
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN ←
- A6** WEST OF IL-49/IL-133 INTERSECTION ON IL-133
ERECT 75FT PRIOR KANKAKEE/CASEY GREENBOARD
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN →

- B4** SOUTH OF IL-49/IL-16 INTERSECTION
ERECT 20FT PAST EAST IL-16 SIGN
4 MILES AHEAD 4 MILE
- A7** NORTH OF IL-49/IL-16 INTERSECTION ON IL-49
ERECT NEAR NORTH IL-49 SIGN
INCLUDE 4 MILES AHEAD SIGN BELOW WIDTH SIGN 4 MILE

MODEL: Sheet2 [Sheet]
FILE NAME: c:\pw\work\pawliconshaw\eresd1094673\0570H62-Shit-Detail_X7200201.dgn

USER NAME = eric.shawler	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/30/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING LOCATIONS
S.N. 023-0026**

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

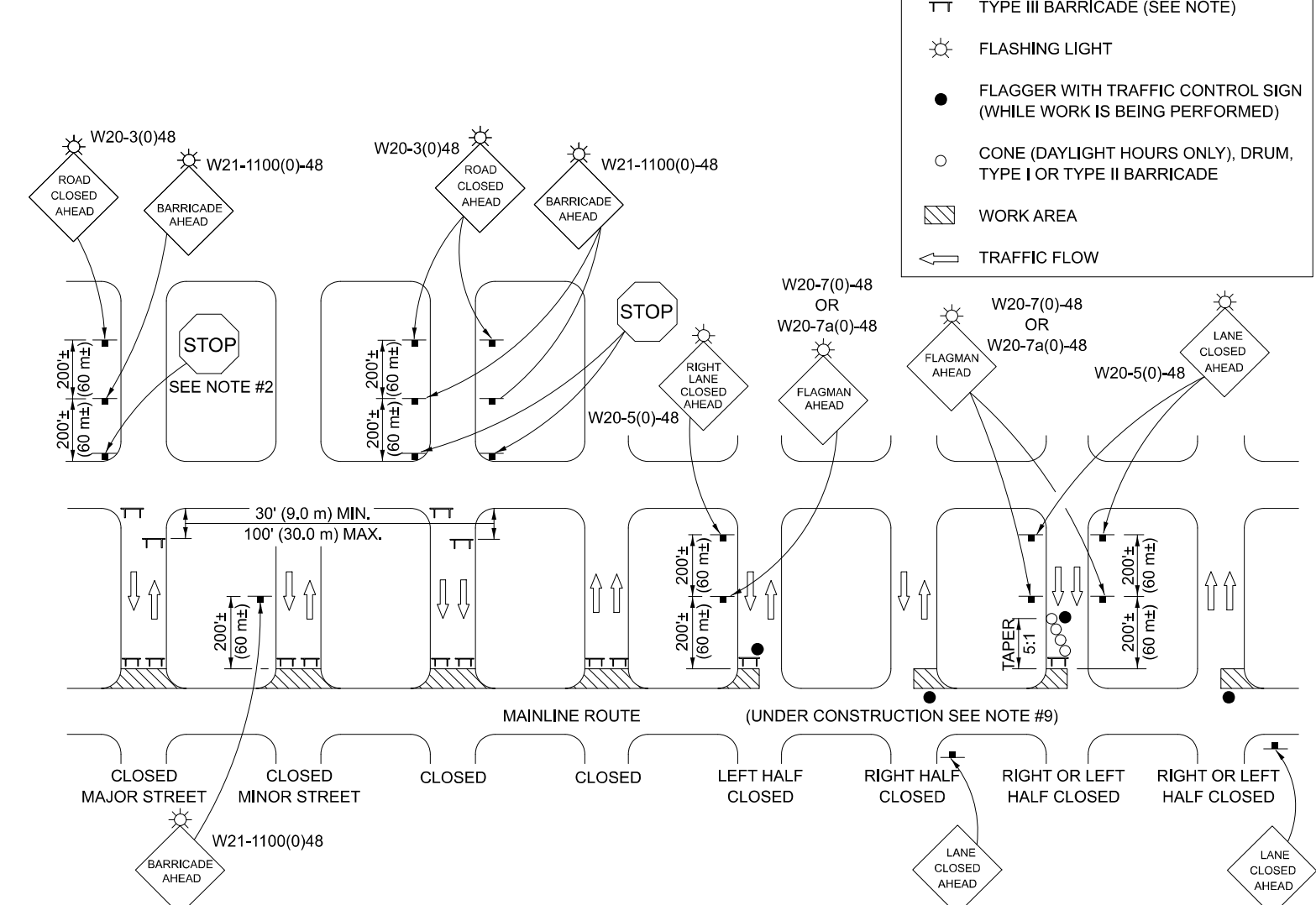
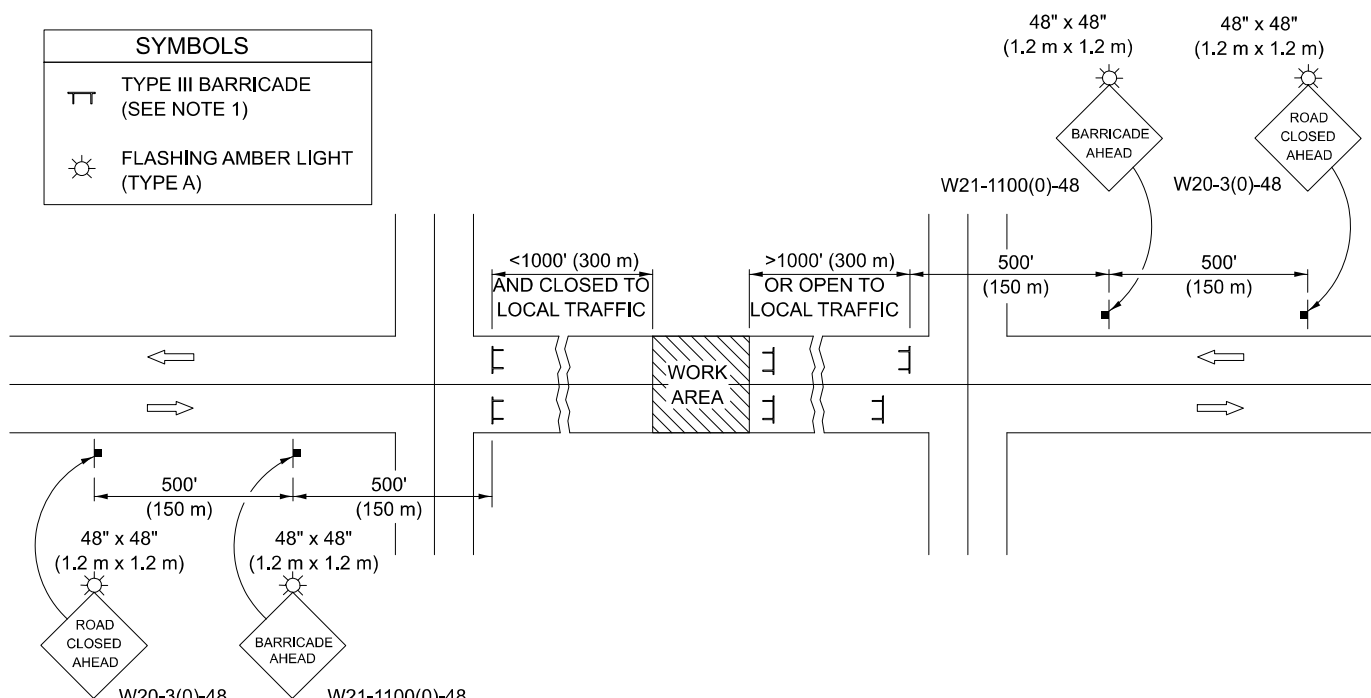
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	35
CONTRACT NO. 70H62				

820 & 836 ILLINOIS FED. AID PROJECT

* DOUGLAS & EDGAR

ROAD CLOSURE

SIDEROAD / STREET CLOSURE



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

USER NAME	= eric.shawler	DESIGNED	-	REVISED	-	11/06
		DRAWN	-	REVISED	-	12/07
		CHECKED	-	REVISED	-	09/09 KJT
PLOT DATE	= 9/30/2025	DATE	-	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD / STREET CLOSURES)

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(22)BR-1,(115)BR-1		36	36
CONTRACT NO. 70H62				
820 & 836	ILLINOIS	FED. AID PROJECT		

MODEL: 70200000 [Sheet]
FILE NAME: c:\pwworking\ericshawler\d1094673\0570H62-Sht-Detail_70200000.dgn