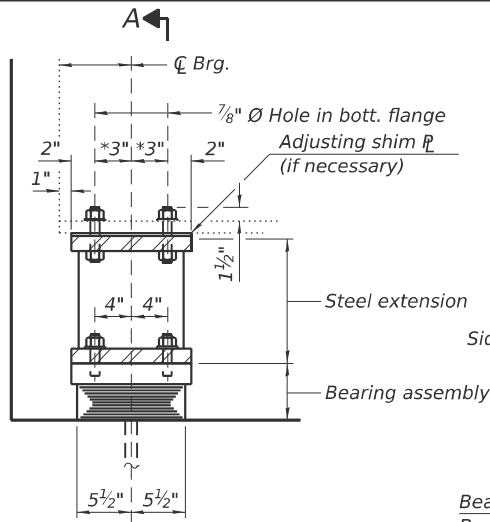
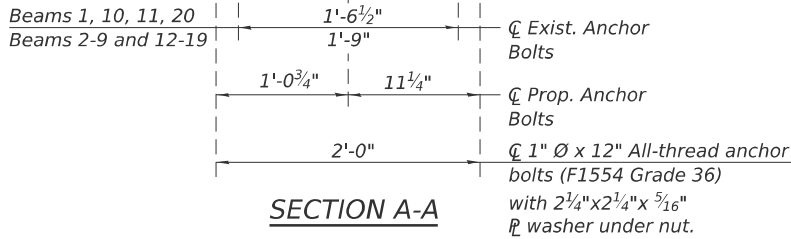


MODEL: West Abutment Bearing Details
FILE NAME: pwr/jacobs-us-vp-pw-q4/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0010 & 060-0011/D876E45-sh-0600010&0600011-014-West Abutment Bearing Details



ELEVATION AT WEST ABUT.

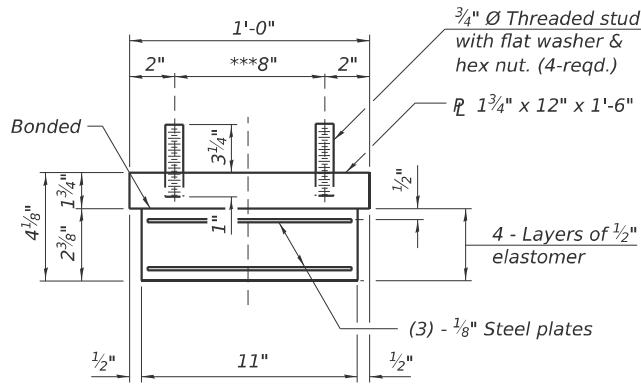
* Match existing



SECTION A-A

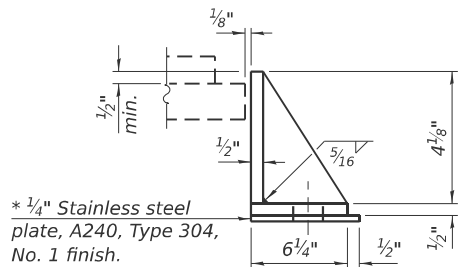
TYPE I ELASTOMERIC EXP. BRG.

*** 6" - Beams 1, 10, 11, & 20

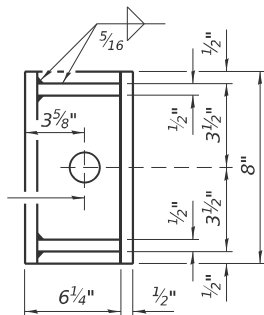


BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.

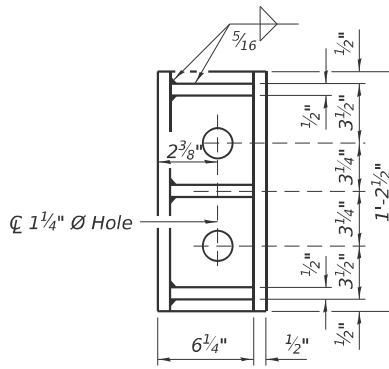


* Stainless steel plate to be cut to fit, if required.



SIDE RETAINER 1

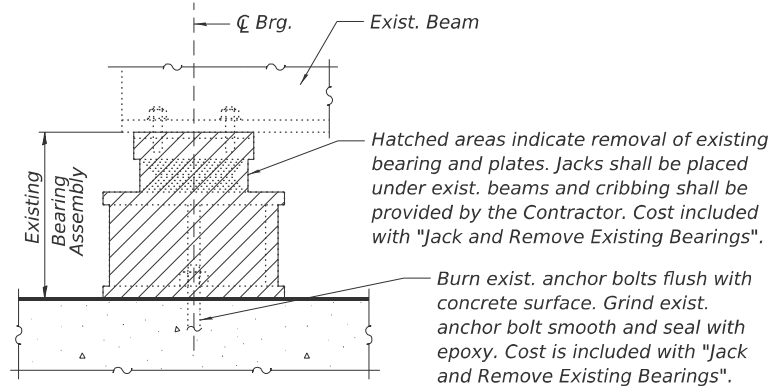
(South side of bearing)



SIDE RETAINER 2

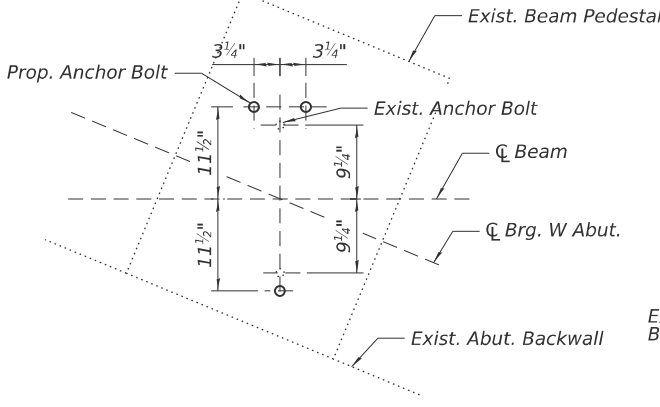
(North side of bearing)

- Notes:
- Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly Type I.
 - The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
 - Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
 - All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
 - Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.



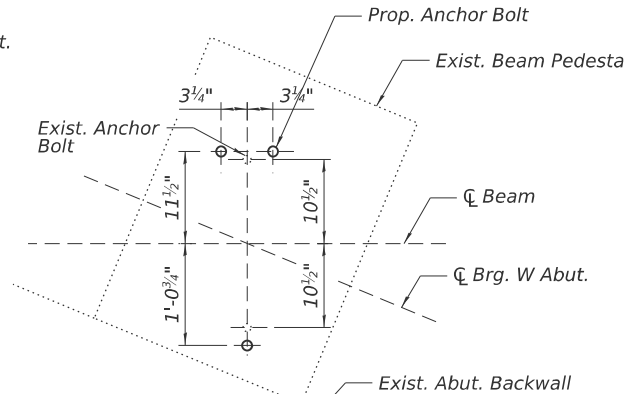
EXISTING BEARING REMOVAL

** Match existing
Beams 1, 2, 9, 10, 11, 12, 19, 20 A = 4"
Beams 3 - 8, 13 - 18 A = 6 1/4"



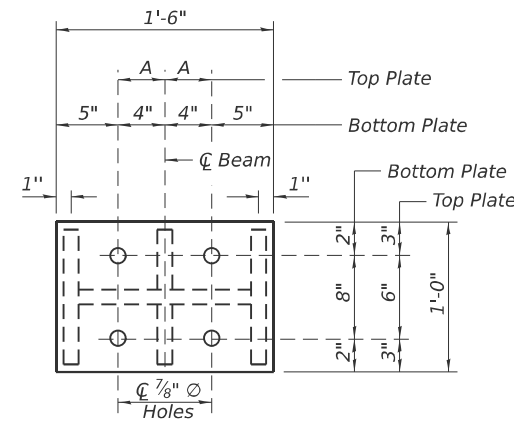
EXISTING AND PROPOSED
ANCHOR BOLT LAYOUT

For Beams 1, 10, 11, 20

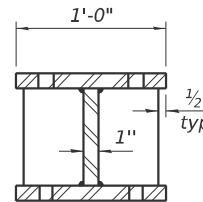


EXISTING AND PROPOSED
ANCHOR BOLT LAYOUT

For Beams 2-9 & 12-19

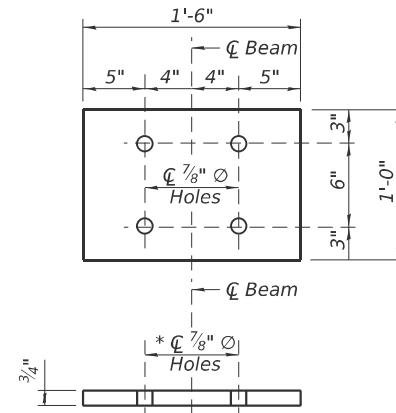


PLAN STEEL EXTENSION



SECTION B-B

ELEVATION STEEL EXTENSION



ELEVATION STEEL EXTENSION

Beams 1, 10, 11 & 20

BILL OF MATERIAL

Item	Unit	QUANTITY		
		SN 060-0010	SN 060-0011	Total
Furnishing and Erecting Structural Steel	Pound	2,150	2,150	4,300
Elastomeric Bearing Assembly Type I	Each	10	10	20
Anchor Bolts, 1"	Each	30	30	60
Jack and Remove Existing Bearings	Each	10	10	20

INTERIOR BEAM REACTION TABLE

	Existing Service Loads Beams 3 thru 8 & 13 thru 18	Proposed Service Loads Beams 3 thru 8 & 13 thru 18	Existing Service Loads Beams 1, 2, 9, 12, 19 & 20	Proposed Service Loads Beams 1, 2, 9, 12, 19 & 20
R DL (k)	38.0	77.36	31.9	68.14
R LL (k)	38.9	38.9	35.6	35.6
Imp. (k)	9.3	9.3	8.5	8.5
R Total (k)	86.2	125.56	76.0	112.24

The Minimum Jack Capacity shall be 155 kips.

COLLINS
ENGINEERS

USER NAME =	kzalewski	DESIGNED -	CRM	REVISED -	
CHECKED -	EKM	REVISED -			
PLOT SCALE =	SSCALES	DRAWN -	DR	REVISED -	
PLOT DATE =	11/25/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

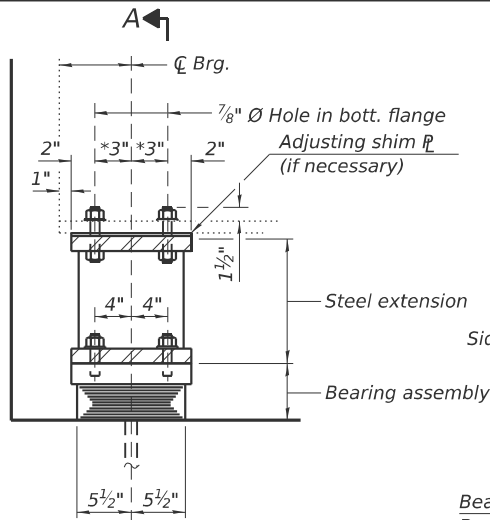
WEST ABUTMENT BEARING DETAILS
STRUCTURE NO. 060-0010 & 060-0011

SHEET 5-14 OF 5-20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	501
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

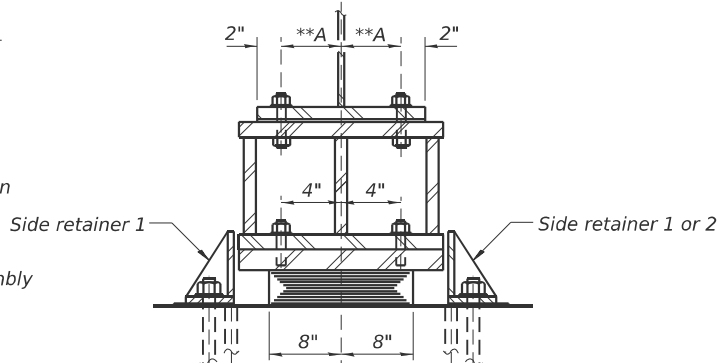
11/25/2025 9:24:14 AM

MODEL: East Abutment Bearing Details
FILE NAME: pwr/jacobs-us-vp-pw-q4/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/ST/Collins/SN060-0010 & 060-0011/D876E45-sh-0600010&0600011-015-East Abutment Bearing Details



ELEVATION AT WEST ABUT.

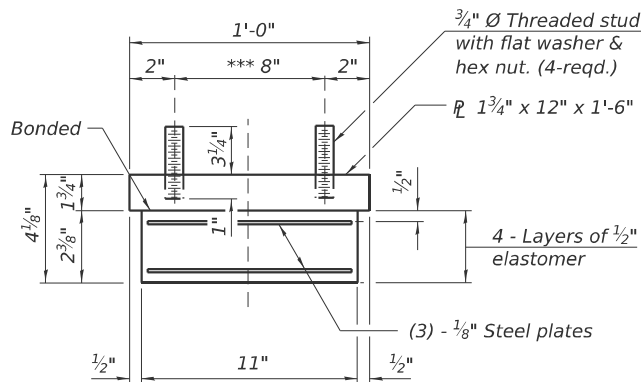
* Match existing



Beams 1, 10, 11, 20	1'-6 1/2"	CL Exist. Anchor Bolts
Beams 2-9 and 12-19	1'-9"	
Beams 1, 10, 11, 20	11 1/4"	CL Prop. Anchor Bolts
Beams 2-9 and 12-19	1'-0 3/4"	
Beams 1, 10, 11, 20	1'-10 1/2"	CL 1" Ø x 12" All-thread anchor bolts (F1554 Grade 36) with 2 1/4"x2 1/4"x 5/16" PL washer under nut.
Beams 2-9 and 12-19	2'-0"	

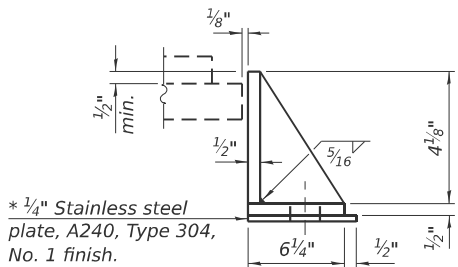
TYPE I ELASTOMERIC EXP. BRG.

*** 6 1/2" - Beams 1, 10, 11, & 20



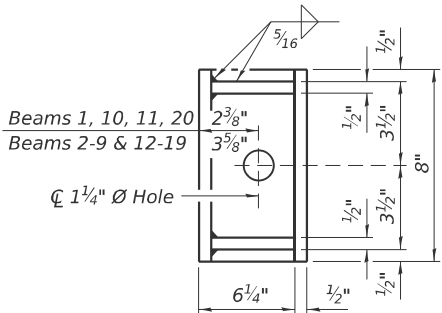
BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.



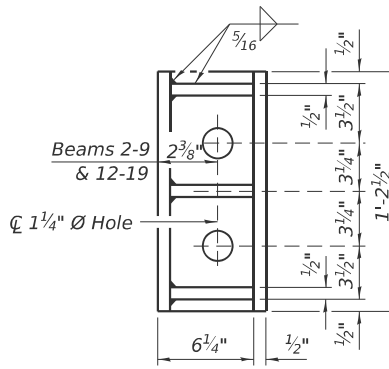
* Stainless steel plate to be cut to fit, if required.

- Notes:
- Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly Type I.
 - The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
 - Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
 - All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
 - Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.



SIDE RETAINER 1

2 Required at Beams 1, 10, 11, 20
1 Required at Beams 2-9 & 12-19
(North side of bearing)

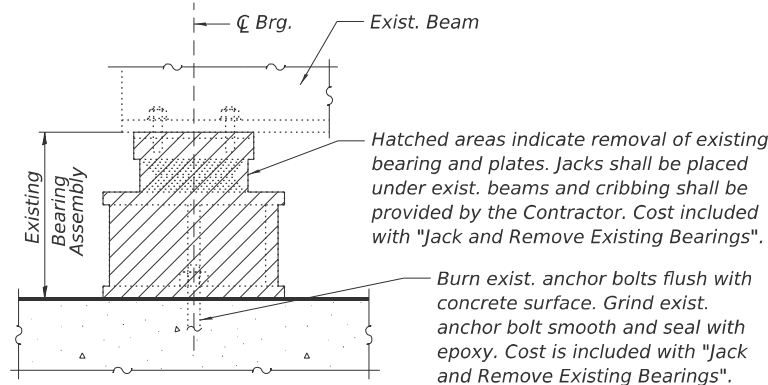


SIDE RETAINER 2

1 Required at Beams 2-9 & 12-19
(South side of bearing)

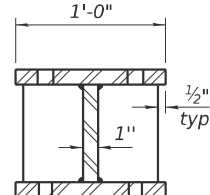
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

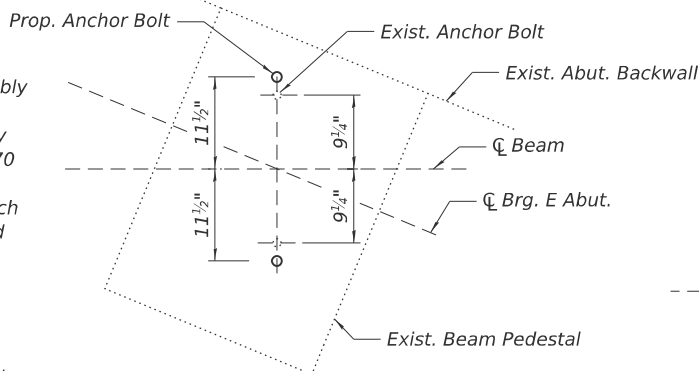


EXISTING BEARING REMOVAL

** Match existing
Beams 1, 2, 9, 10, 11, 12, 19, 20 A = 4"
Beams 3 - 8, 13 - 18 A = 6 1/4"

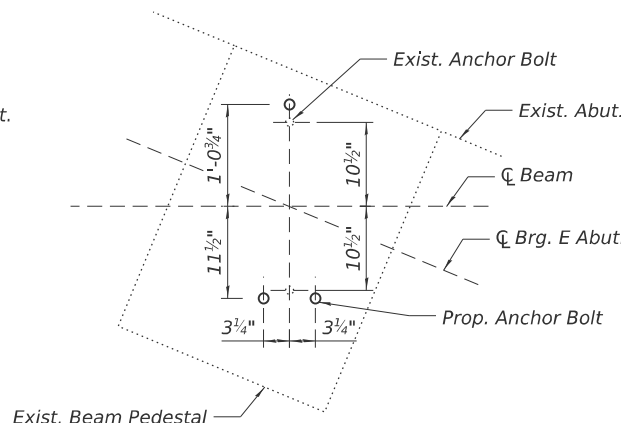


SECTION B-B



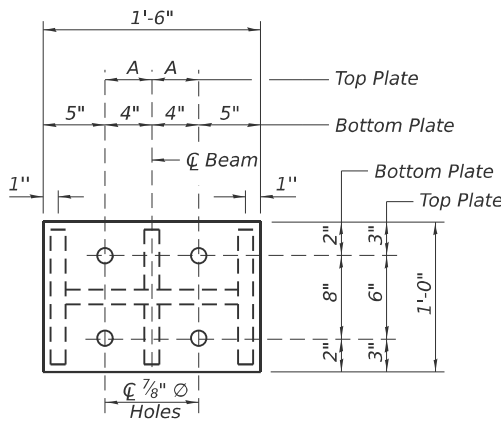
EXISTING AND PROPOSED ANCHOR BOLT LAYOUT

For Beams 1, 10, 11, 20

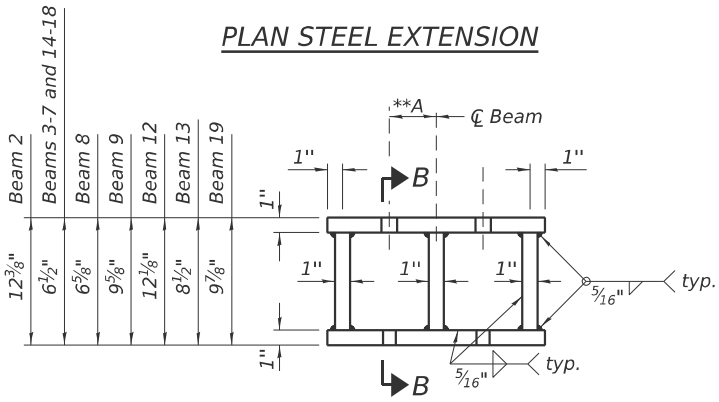


EXISTING AND PROPOSED ANCHOR BOLT LAYOUT

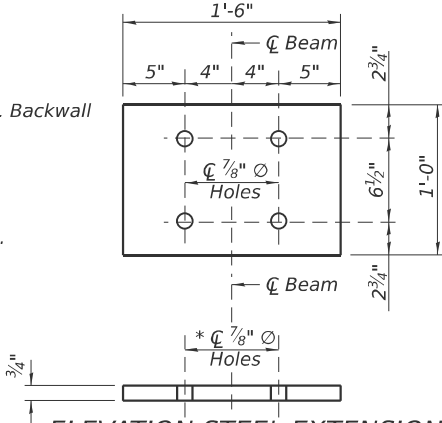
For Beams 2-9 & 12-19



PLAN STEEL EXTENSION



ELEVATION STEEL EXTENSION



ELEVATION STEEL EXTENSION

Beams 1, 10, 11 & 20

BILL OF MATERIAL

Item	Unit	QUANTITY		
		SN 060-0010	SN 060-0011	Total
Furnishing and Erecting Structural Steel	Pound	2,110	2,080	4,190
Elastomeric Bearing Assembly Type I	Each	10	10	20
Anchor Bolts, 1"	Each	30	30	60
Jack and Remove Existing Bearings	Each	10	10	20

INTERIOR BEAM REACTION TABLE

	Existing Service Loads Beams 3 thru 8 & 13 thru 18	Proposed Service Loads Beams 3 thru 8 & 13 thru 18	Existing Service Loads Beams 1, 2, 9, 12, 19 & 20	Proposed Service Loads Beams 1, 2, 9, 12, 19 & 20
R DL (k)	38.0	77.36	31.9	68.14
R LL (k)	38.9	38.9	35.6	35.6
Imp. (k)	9.3	9.3	8.5	8.5
R Total (k)	86.2	125.56	76.0	112.24

The Minimum Jack Capacity shall be 155 kips.

COLLINS ENGINEERS

USER NAME =	kzalewski	DESIGNED -	CRM	REVISED -	
PLOT SCALE =	SSCALES	CHECKED -	EKM	REVISED -	
PLOT DATE =	11/25/2025	DRAWN -	DR	REVISED -	
		CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT BEARING DETAILS
STRUCTURE NO. 060-0010 & 060-0011

SHEET 5-15 OF 5-20 SHEETS

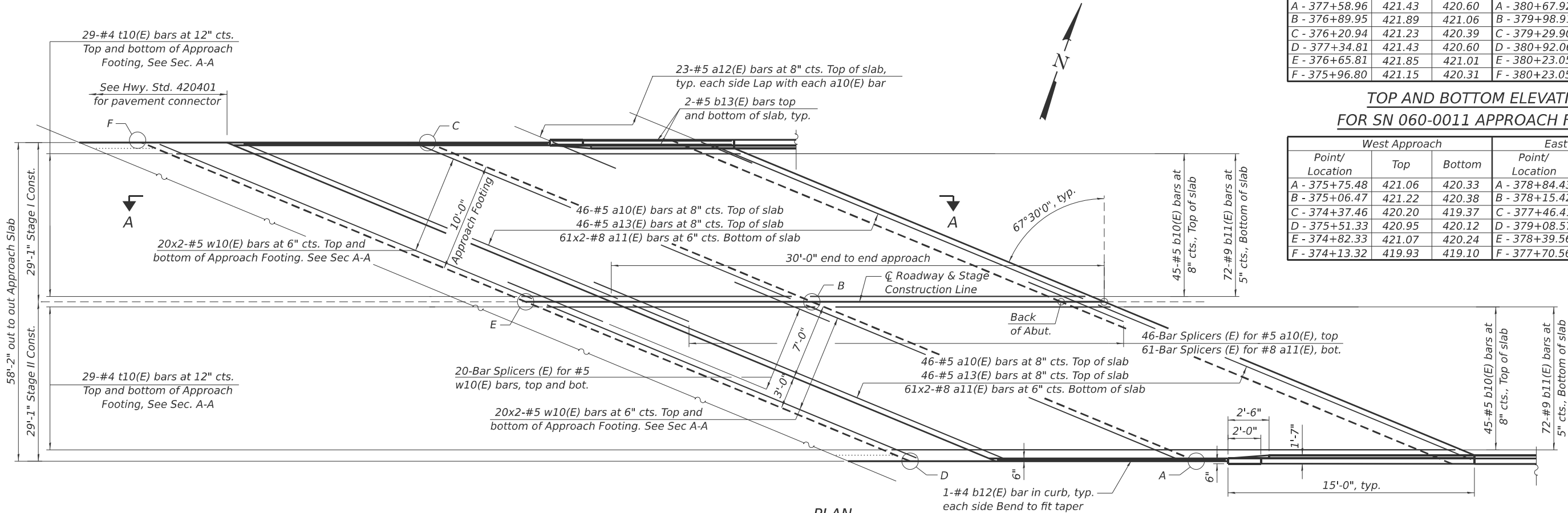
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	502
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

TOP AND BOTTOM ELEVATIONS
FOR SN 060-0010 APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - 377+58.96	421.43	420.60	A - 380+67.92	421.02	420.18
B - 376+89.95	421.89	421.06	B - 379+98.91	421.52	420.69
C - 376+20.94	421.23	420.39	C - 379+29.90	421.02	420.18
D - 377+34.81	421.43	420.60	D - 380+92.06	421.02	420.18
E - 376+65.81	421.85	421.01	E - 380+23.05	421.52	420.69
F - 375+96.80	421.15	420.31	F - 380+23.05	421.03	420.18

TOP AND BOTTOM ELEVATIONS
FOR SN 060-0011 APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - 375+75.48	421.06	420.33	A - 378+84.43	421.27	420.43
B - 375+06.47	421.22	420.38	B - 378+15.42	421.89	421.05
C - 374+37.46	420.20	419.37	C - 377+46.41	421.43	420.60
D - 375+51.33	420.95	420.12	D - 379+08.57	421.27	420.43
E - 374+82.33	421.07	420.24	E - 378+39.56	421.84	421.01
F - 374+13.32	419.93	419.10	F - 377+70.56	421.43	420.60

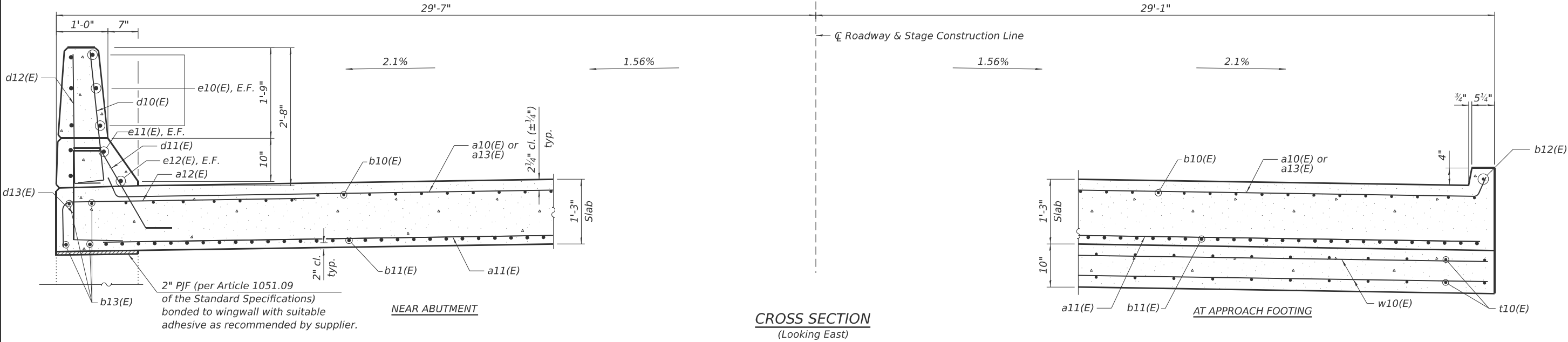


MINIMUM BAR LAP:

#5 bar = 2'-0" (Footing)
#5 bar = 2'-6" (Slab)
#8 bar = 5'-2"

(Shown for WB SN 060-0011 West Approach Slab, others similar)
Not to Scale

Notes:
1. Bars indicated thus 10x2-#5 etc. indicates 10 lines of bars with 2 lengths per line



CROSS SECTION
(Looking East)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS I
STRUCTURE NO. 060-0010 & 060-0011

SHEET 5-16 OF 5-20 SHEETS

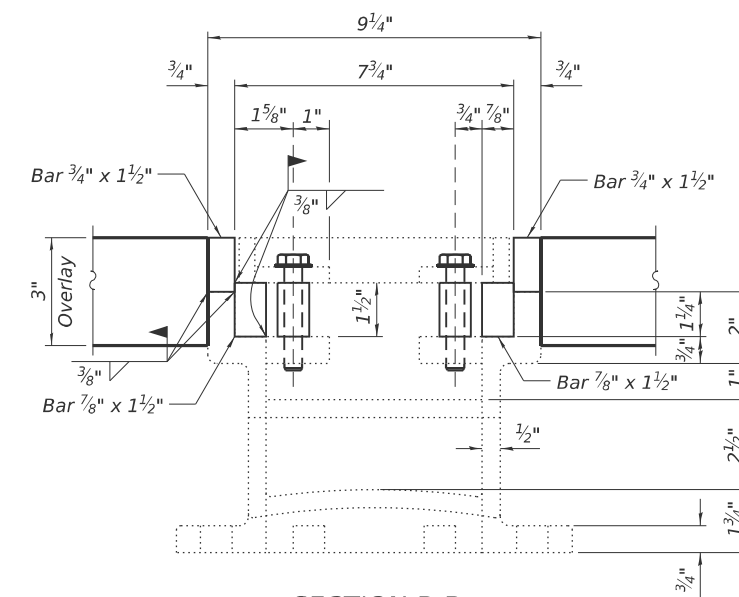
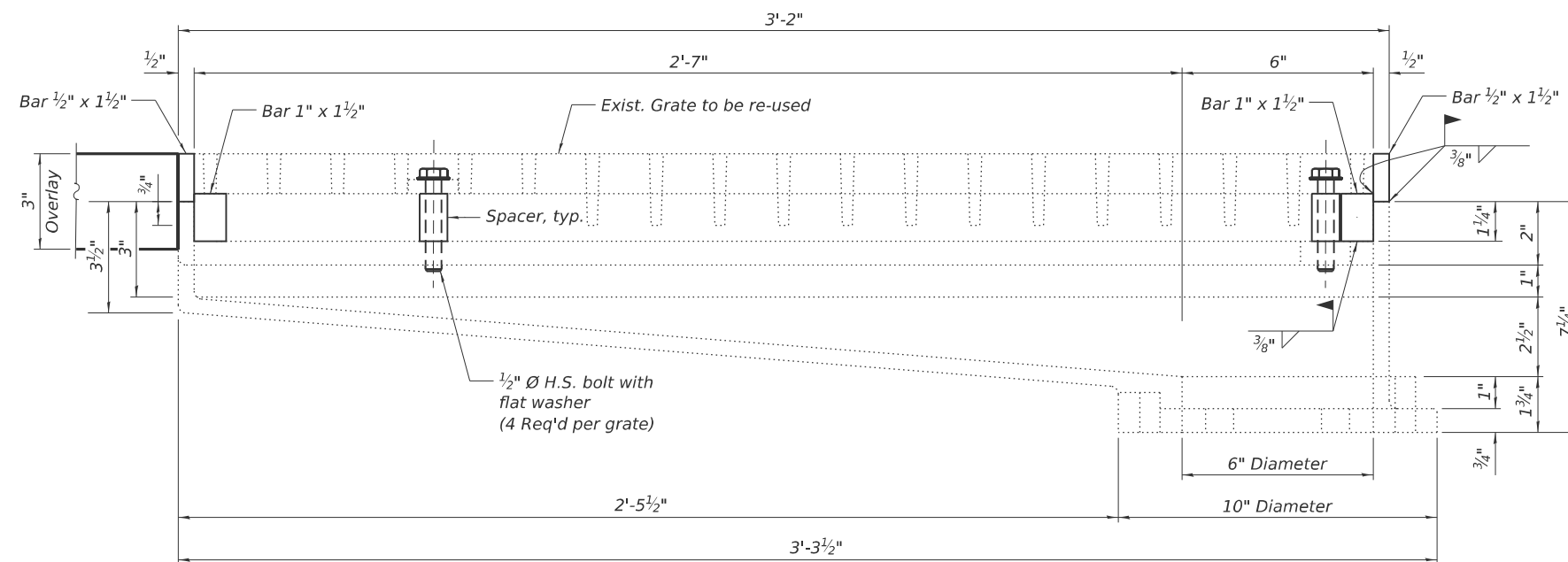
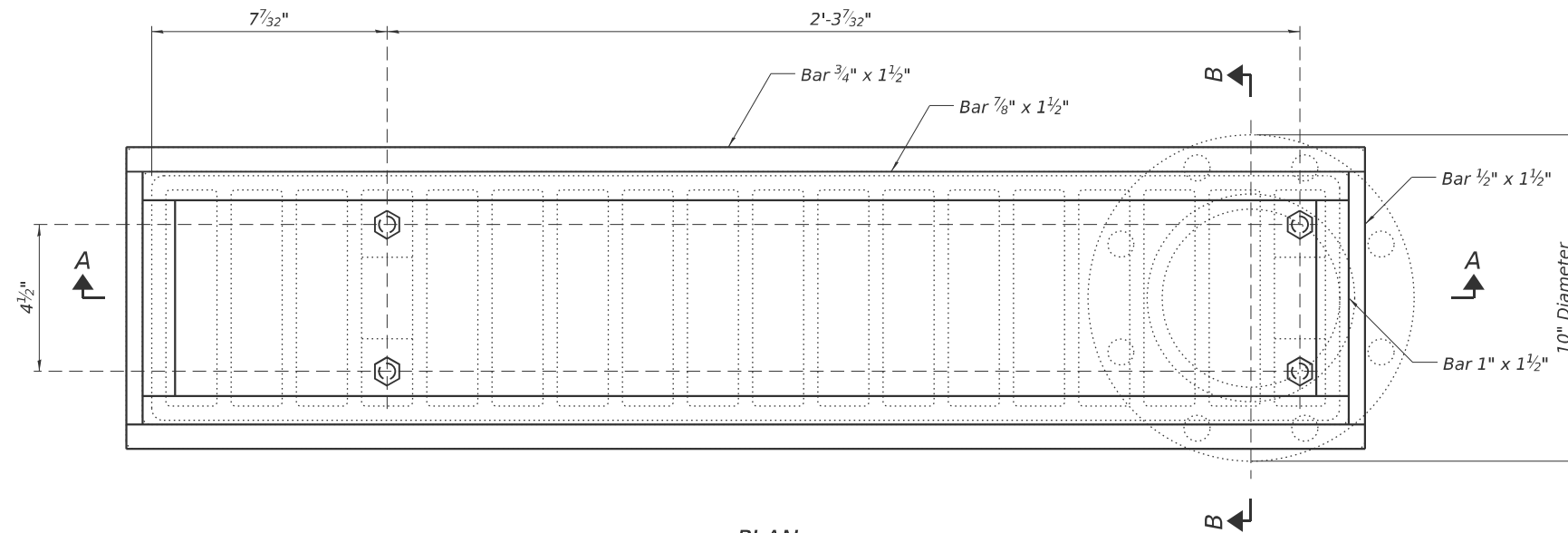
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	503
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: Approach Slab Details I
FILE NAME: pww/jacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw-04/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0010 & 060-0011/060-0011-016-Approach Slab Details I

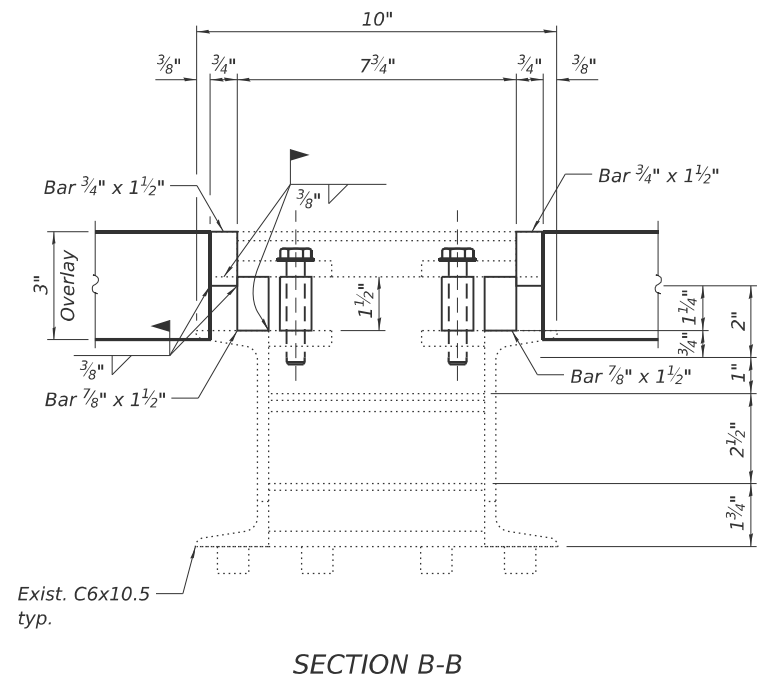
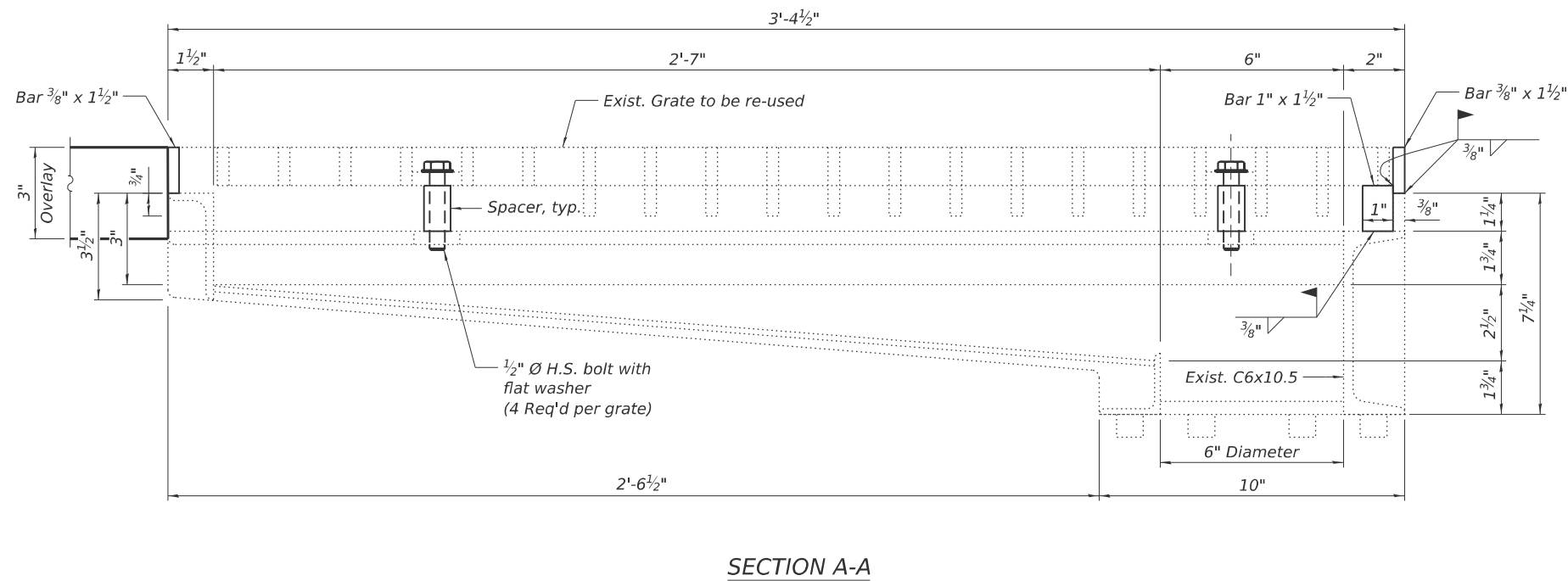
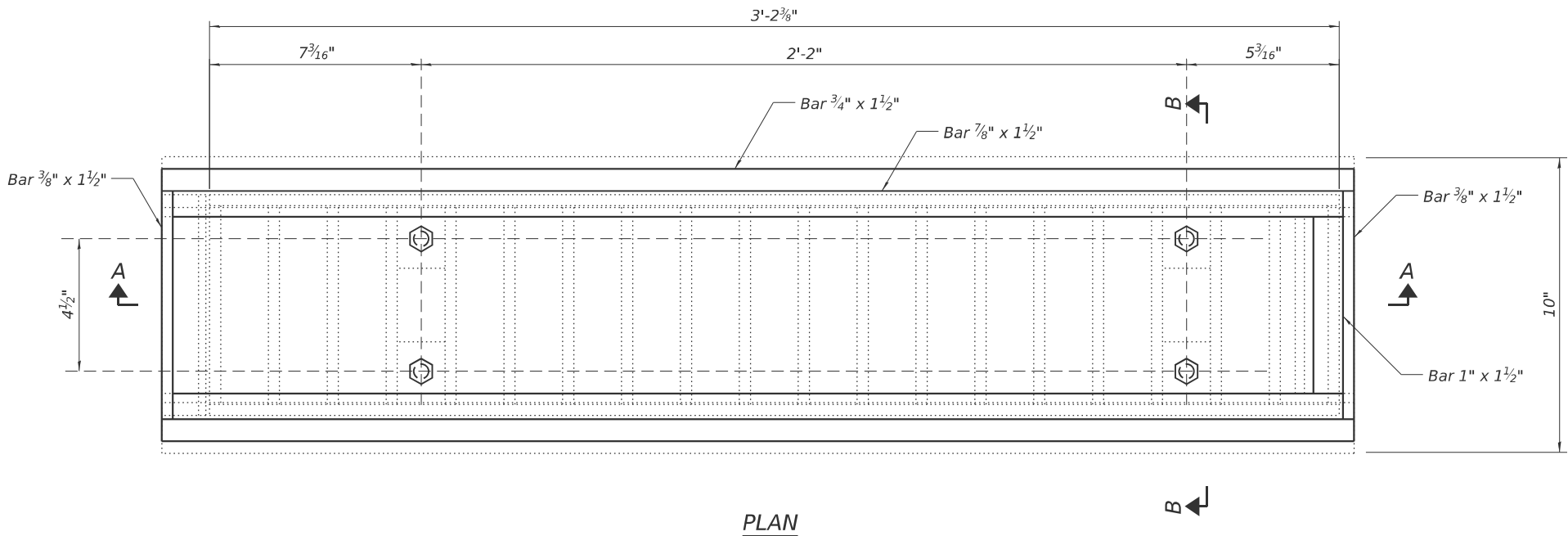
COLLINS
ENGINEERS

USER NAME =	kzalewski	DESIGNED -	CRM	REVISED -	
		CHECKED -	EKM	REVISED -	
PLOT SCALE =	SSCALES	DRAWN -	DR	REVISED -	
PLOT DATE =	11/25/2025	CHECKED -	2025/10/03	REVISED -	

11/25/2025 9:24:59 AM



MODEL: Drainage Scupper Details
FILE NAME: p:\w\jacobs-us-va-pw-04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\PID\IST\Collins\Sh0060-0010 & 060-0011\0600010&0600011-019-Drainage Scupper Details.dgn
11/25/2025 9:25:41 AM



Note: Contractor shall verify if scuppers are cast iron or steel prior to adjusting.
See Sheet S-18 for Bill of Material for Drainage Scuppers to be Adjusted.

COLLINS
ENGINEERS

USER NAME =	kzalewski	DESIGNED -	CRM	REVISED -	
		CHECKED -	EKM	REVISED -	
PLOT SCALE =	SSCALE\$	DRAWN -	DR	REVISED -	
PLOT DATE =	11/25/2025	CHECKED -	2025/10/03	REVISED -	

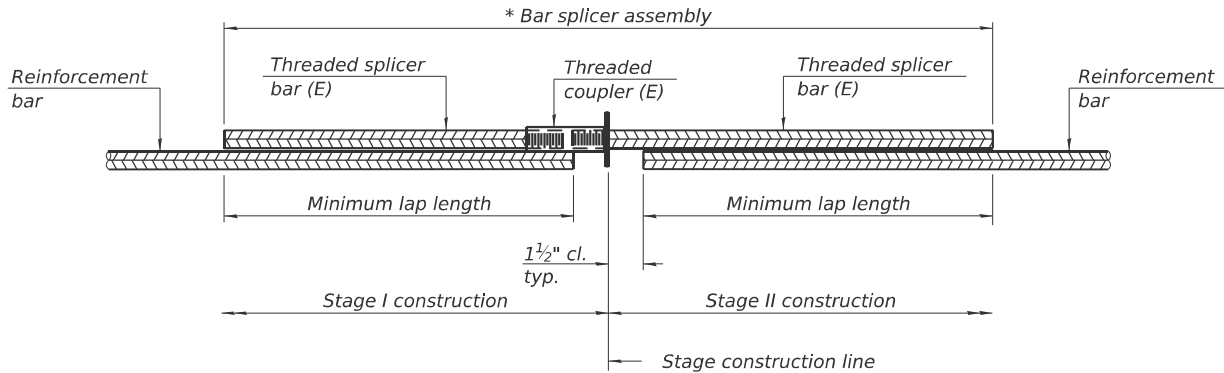
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER DETAILS (STEEL)
STRUCTURE NO. 060-0010 & 060-0011

SHEET S-19 OF S-20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	506
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: Bar Splicer Assembly and Mechanical Splicer Details
FILE NAME: p:\w\jacobs-us-va-pw\benley.com\jacobs-us-va-pw\0600010&060011\020-Bar Splicer Assembly and Mechanical Splicer Details



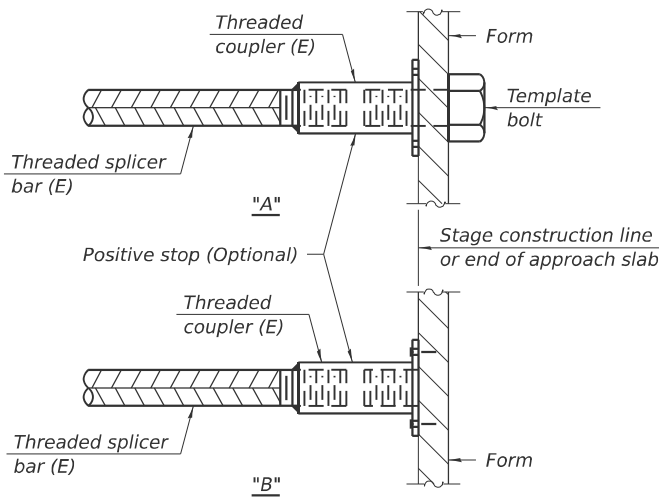
STANDARD BAR SPLICER ASSEMBLY PLAN

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
		SN 060-0010	SN 060-0011	TOTAL	
Superstructure Deck	#4	4	4	8	2'-4"
	#5	36	36	72	2'-0"
	#6	10	10	20	3'-9"
Approach Slab	#5	172	172	344	2'-0"
	#8	122	122	244	5'-2'

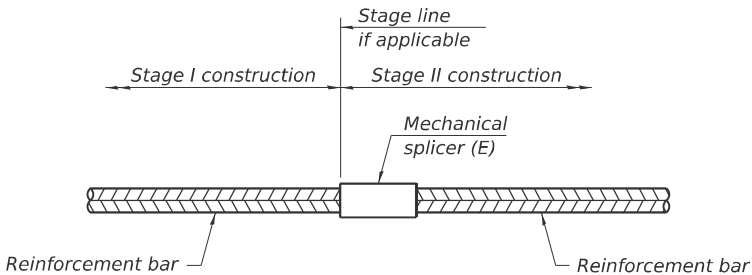


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

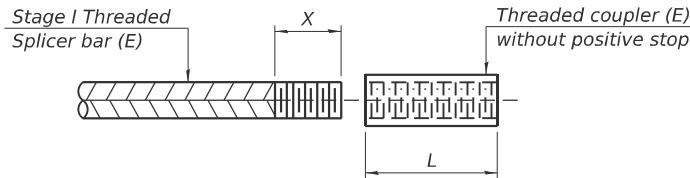
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required		
		SN 060-0010	SN 060-0011	TOTAL
Abutment Diaphragm	#6	8	8	16



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.

BSD-1

4-4-2025



USER NAME =	kzalewski	DESIGNED -	CRM	REVISED -	
		CHECKED -	EKM	REVISED -	
PLOT SCALE =	\$\$CALE\$	DRAWN -	DR	REVISED -	
PLOT DATE =	11/25/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 060-0010 & 060-0011

SHEET 5-20 OF 5-20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	507
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

Benchmark: R.R. Spike in 42" Cottonwood 87.5' Lt. Sta 87+90, Elev. 416.20

Existing Structure: SN 060-0146 was built in 1961 under Project I-70-1(5)6. The structure a 9-span, WF beam superstructure supported by concrete dual-column piers and concrete stub abutments founded on cast-in-place concrete piles. The bridge measures 528'-3" back-to-back abutments and 31'-2" out-to-out, with a 20°38'30" skew.

Traffic Control: Stage construction with one open lane shared in both directions.

No Salvage.

SCOPE OF WORK

1. Apply a hot-mix asphalt / waterproofing membrane system (HMA/WMS) overlay to bridge deck and approach slabs.
2. Replace all expansion joints with strip seals.
3. Remove and replace 3' of deck ends at all joint replacement locations.
4. Clean and paint all superstructure steel.
5. Replace all end diaphragms at the abutments and Piers 2 and 6 with galvanized steel members.
6. Replace bearings at Abutments and Piers 2 and 6.
7. Formed concrete repairs on Pier 2 and Pier 6.
8. Graffiti removal on Piers and Abutments.
9. Crashwall retrofit on Piers 3 and 5.

DESIGN SPECIFICATIONS

2002 AASHTO LFD Bridge Design Specifications, 17 Edition

DESIGN STRESSES

FIELD UNITS (NEW CONDITION)

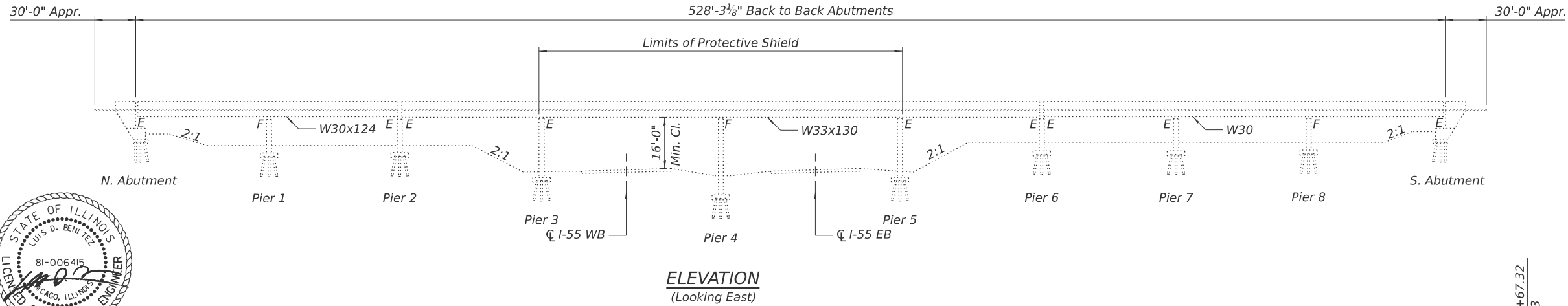
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

FIELD UNITS (EXISTING CONSTRUCTION)

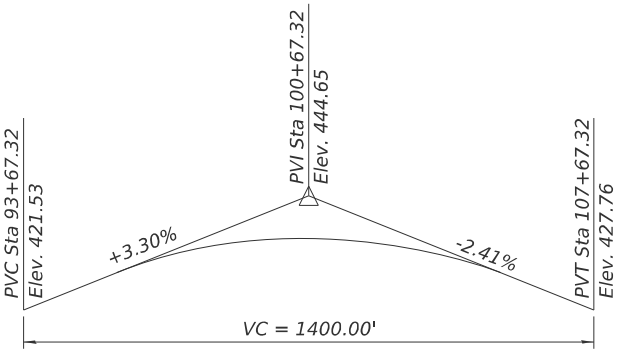
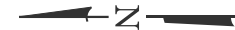
f'c = 3,500 psi
fs = 20,000 psi (Reinforcement)
fs = 18,000 psi (Structural Steel)

LOADING HS-20-44

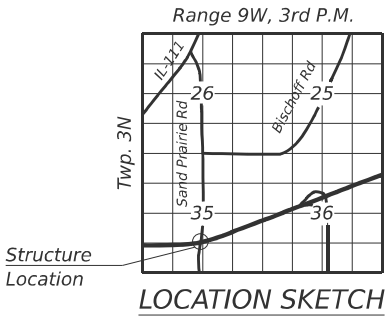
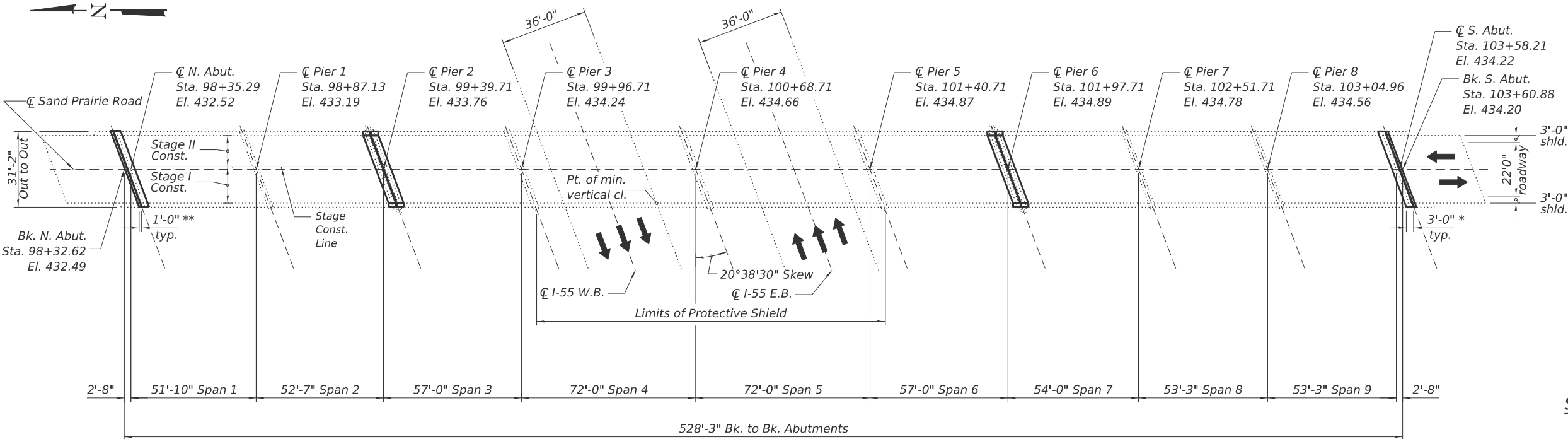
(Original Construction)
No allowance for future wearing surface.



COLLINS ENGINEERS, INC.
LUIS D. BENITEZ, P.E., S.E.
NO. 81-006415
EXP.: 11/30/2026



EXISTING PROFILE GRADE



GENERAL PLAN AND ELEVATION
SAND PRAIRIE ROAD OVER I-55/70
F.A.I 70 - SECTION 60-6RS-2
MADISON COUNTY
STA: 100+68.71
SN. 060-0146

- * Remove and replace 3'-0" of deck ends at all joint replacement locations.
** Remove and replace 1'-0" of back wall at N. and S. abutments.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 060-0146

SHEET 1 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	508
				CONTRACT NO. 76E84
				ILLINOIS FED. AID PROJECT

MODEL: GPE
FILE NAME: p:\jacobson-us-vp-pw-bentley.com\jacobson-us-vp-pw-bentley.com\Documents\03152026.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SN060-0146\0876E45-SHT-0600146-001-GPE



USER NAME =	credzic	DESIGNED -	A. SPALETTO	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$CALES\$	DRAWN -	A. SPALETTO	REVISED -	
PLOT DATE =	11/26/2025	CHECKED -	2025/10/03	REVISED -	

11/26/2025 1:44:10 PM

MODEL: GENOTES
FILE NAME: pw://jacobs-us-epw-pw.bentley.com/jacobs-us-va-pw-04/Documents/D3152206.02_ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SH0060-0146/D876E45-SHT-0600146-002-GENOTES

GENERAL NOTES

1.

All new structural steel shall be AASHTO M270 Grade 50, unless otherwise noted.
2.

All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
3.

No field welding is permitted except as specified in the contract documents.
4.

Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel." Bolts ³/₄" diameter, holes ¹³/₁₆" diameter, unless otherwise noted.
5.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¹/₄" deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
6.

Reinforcement bars designated (E) shall be epoxy coated.
7.

Plan dimensions and details relative to the existing structure have been taken from 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.
8.

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 at the Contractors expense.
9.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
10.

The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.
11.

Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.
12.

Joint openings shall be adjusted to Article 520.04 of the Standard Specifications when the concrete adjacent to joints is poured at an ambient temperature other than 50° F.
13.

The Organic Zinc Rich Primer / Epoxy / Urethane paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that the exterior surfaces and bottom of the bottom flange of the fascia beams, masked off connection surfaces, and field installed fasteners, shall all be touched up and finish coated in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
14.

Treat all structural steel repair areas as primary connections.
15.

A minimum of 4 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."
16.

SSPC QP1 and QP2 Painting Contractor Certification required for the cleaning and painting work.

INDEX OF SHEETS

1.

General Plan and Elevation
2.

General Notes, Index of Sheets, & Bill of Material
3.

Staged Construction Details
4.

Temporary Concrete Barrier
5.

Full Lane Sealant Waterproofing System
6.

End Diaphragm Replacement
7.

Expansion Joint Replacement Detail I
8.

Expansion Joint Replacement Detail II
9.

Preformed Joint Strip Seal
10.

Bearing Replacement S. Pier 2 & N. Pier 6
11.

Bearing Replacement S. Pier 6
12.

Bearing Replacement N. Abut., S. Abut., & N. Pier 2
13.

Concrete Repairs - Pier 2 & Pier 6
14.

Piers 3 and 5 Crashwall Details
15.

Bar Splicer Assembly and Mechanical Splicer Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "E", N80	Ton	150
Concrete Removal	Cu. Yd.	23
Protective Shield	Sq. Yd.	499
Concrete Superstructure	Cu. Yd.	27.1
Cleaning and Painting Steel Bridge No. 7	L. Sum	1
Reinforcement Bars, Epoxy Coated	Pound	5010
Bar Splicers	Each	78
Preformed Joint Strip Seal	Foot	129
Elastomeric Bearing Assembly, Type I	Each	18
Elastomeric Bearing Assembly, Type II	Each	18
Full Lane Sealant Waterproofing System	Sq. Yd.	1831
Concrete Sealer	Sq. Ft.	1562
Graffiti Removal	Sq. Yd.	75
Structural Steel Removal	Pound	7370
Jack and Remove Existing Bearings	Each	36
Containment and Disposal of Lead Paint Cleaning Residues No. 7	L. Sum	1
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq. Ft.	85
Anchor Bolts, 1"	Each	72
Concrete Structure	Cu. Yd.	5
Furnishing and Erecting Structural Steel	Pound	7370



USER NAME =	credzic	DESIGNED -	A. SPALETTO	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$\$CALES\$	DRAWN -	A. SPALETTO	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

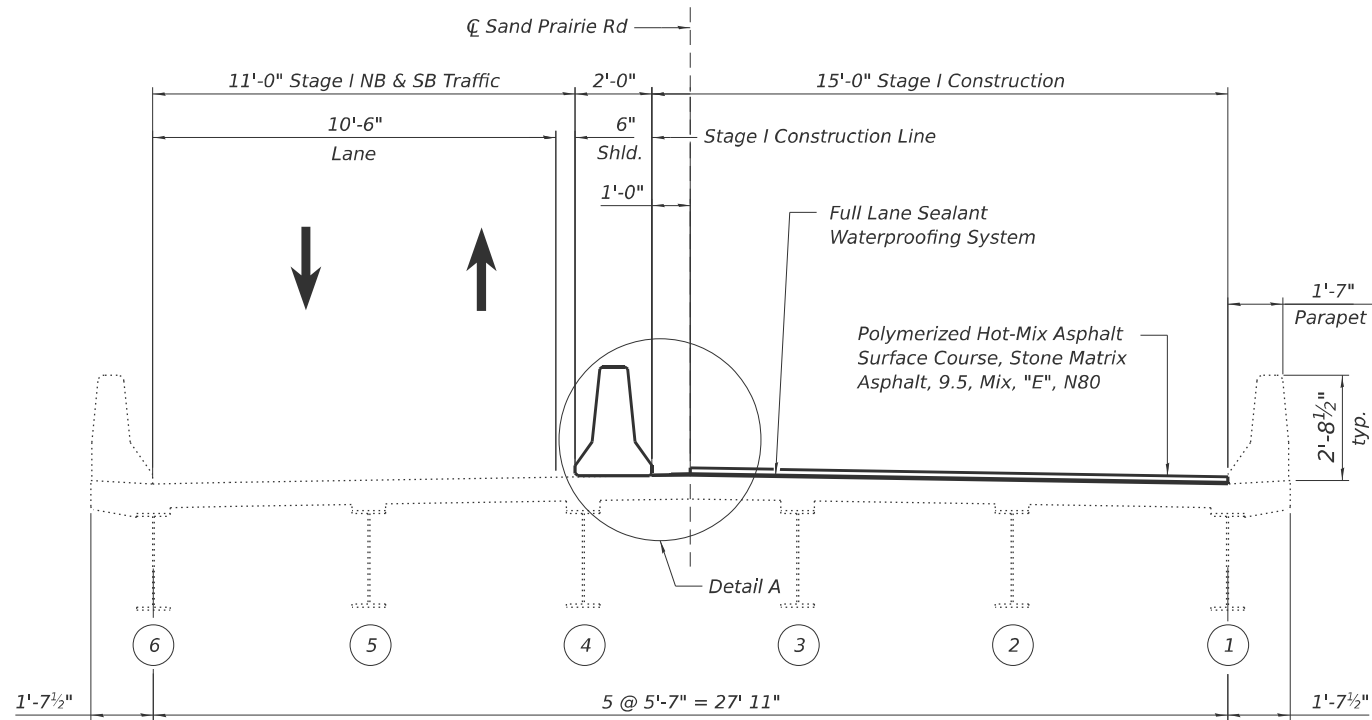
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEET, & BILL OF MATERIAL
STRUCTURE NO. 060—0146

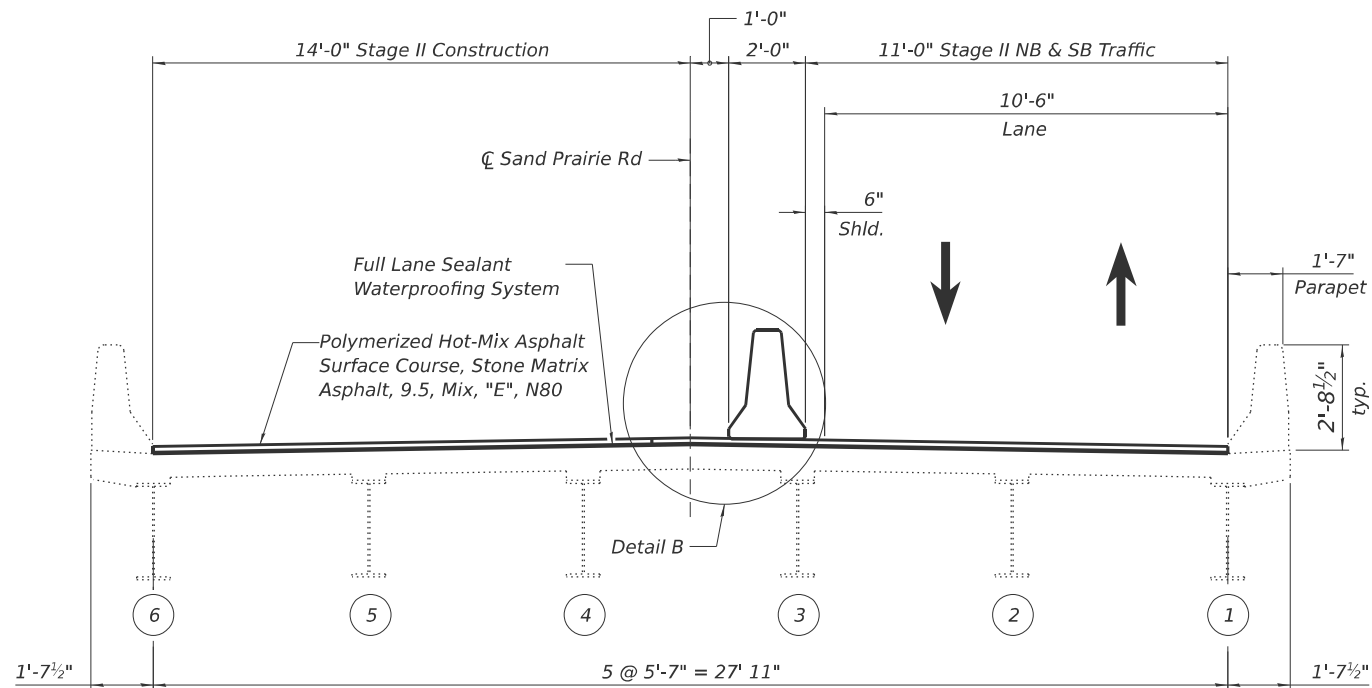
SHEET 2 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	509
CONTRACT NO. 76E84				
		ILLINOIS	FED. AID PROJECT	

MODEL: STAGED CONSTRUCTION DETAILS
FILE NAME: pwr/jacobs-us-vp-pw-bentley.com/jacobs-us-vp-pw-bentley.com/Project Data/PID/IST/Collins/SH060-0146/D876E45-SHT-0600146-003-STAGED CONSTRUCTION DETAILS



STAGE I CONSTRUCTION
(Looking North)

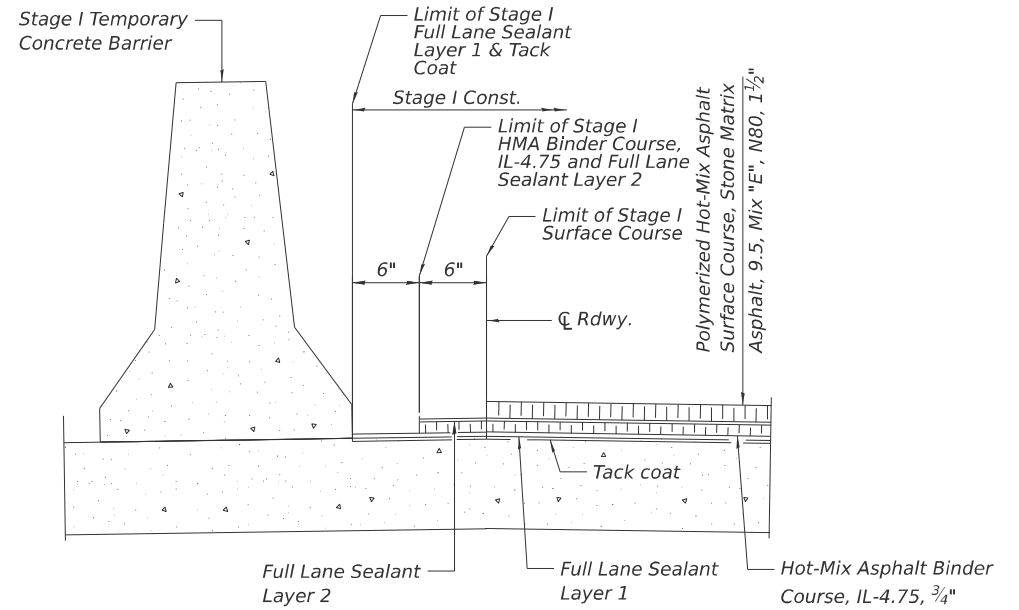


STAGE II CONSTRUCTION
(Looking North)

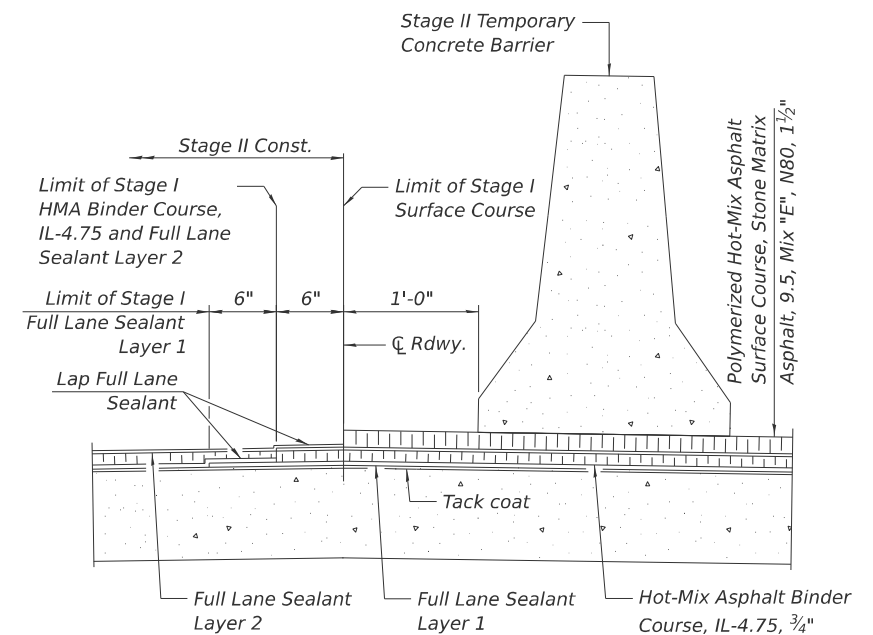
LEGEND:



Temporary Concrete Barrier.



DETAIL A



DETAIL B

Notes:
For quantity of Temporary Concrete Barrier, see roadway plans.
Full depth deck replacements at the abutment joints not shown.



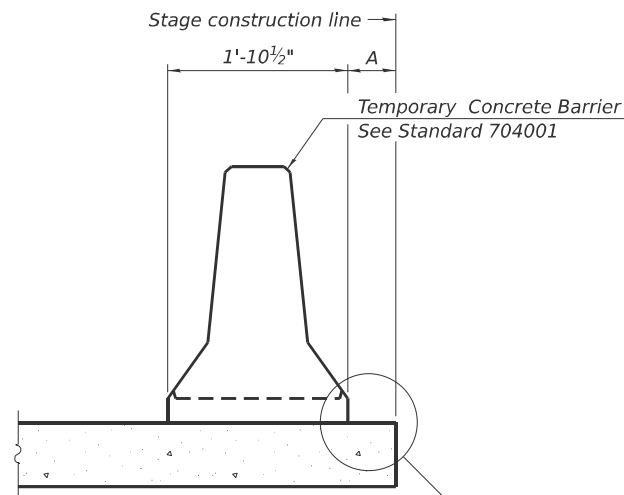
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PLOT SCALE =	\$\$CALE\$	DRAWN -	A. SPALETTA	REVISED -	
PLOT DATE =	11/21/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 060-0146

SHEET 3 OF 15 SHEETS

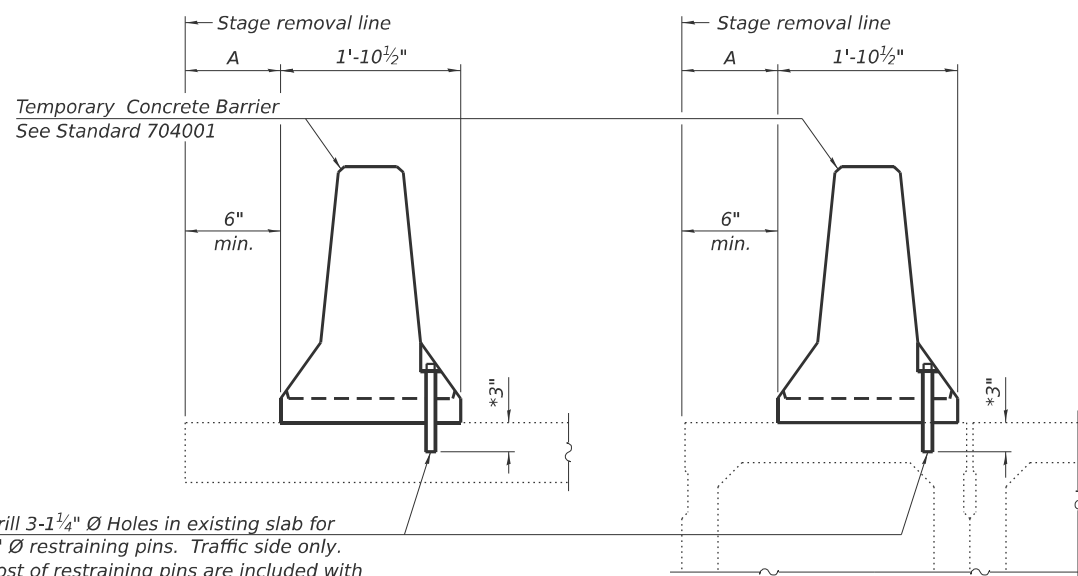
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70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	510
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

— See Detail I, II or III

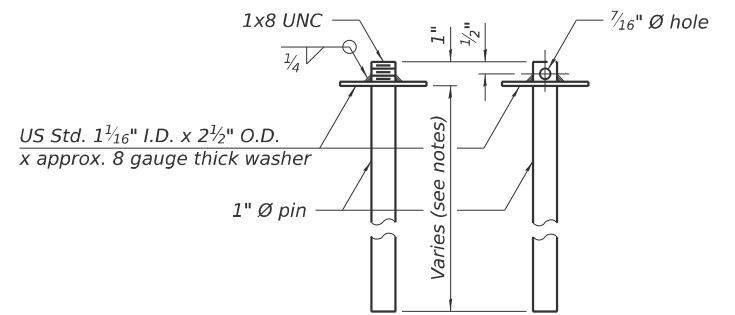
NEW SLAB OR NEW DECK BEAM



Drill 3-1¹/₄" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

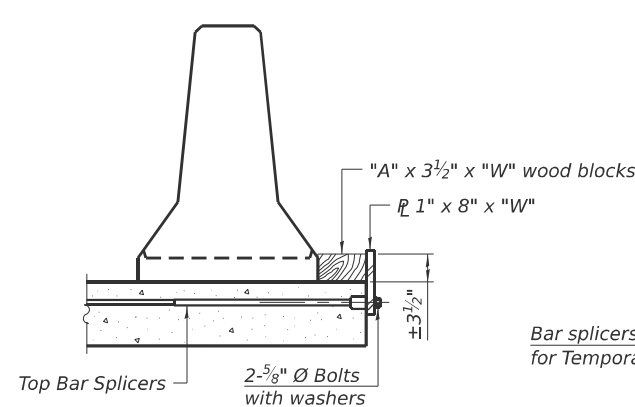
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

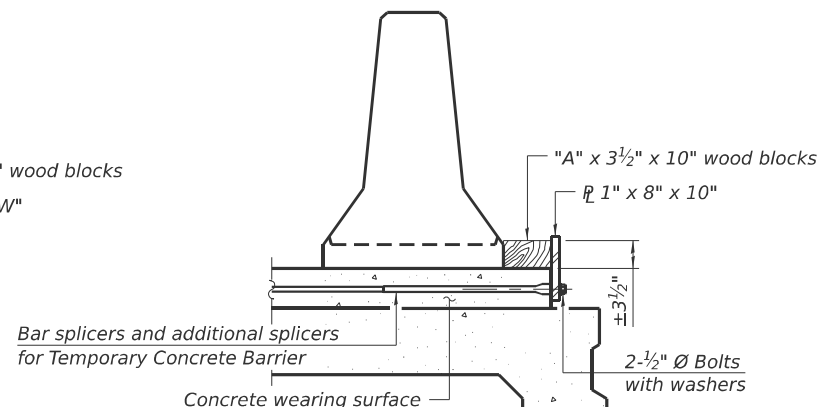


RESTRAINING PIN

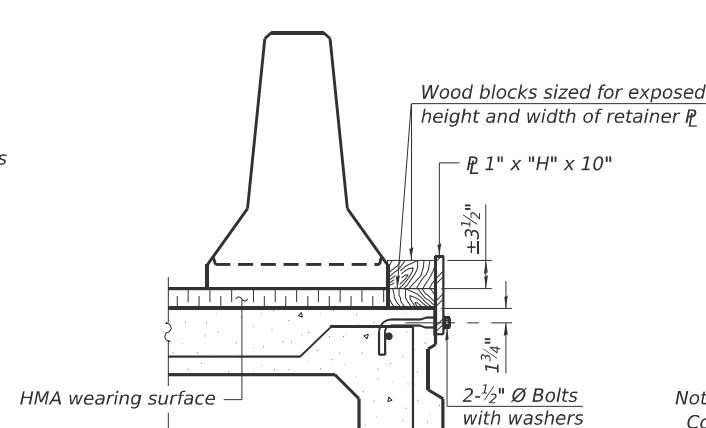
SECTIONS THRU SLAB OR DECK BEAM



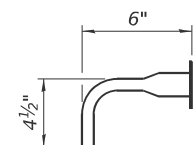
DETAIL 1



DETAIL II



DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate $\frac{1}{4}$ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

STEEL RETAINER PL 1" x 8" x "W"
(Detail I and II)

STEEL RETAINER PL 1" x "H" x 10"
(Detail III)

COLLINS
ENGINEERS INC.

USER NAME = dredzic	DESIGNED - A. SPALETTA	REVISED -
	CHECKED - L. BENITEZ	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - A. SPALETTA	REVISED -
PLOT DATE = 11/21/2025	CHECKED - 2025/10/03	REVISED -

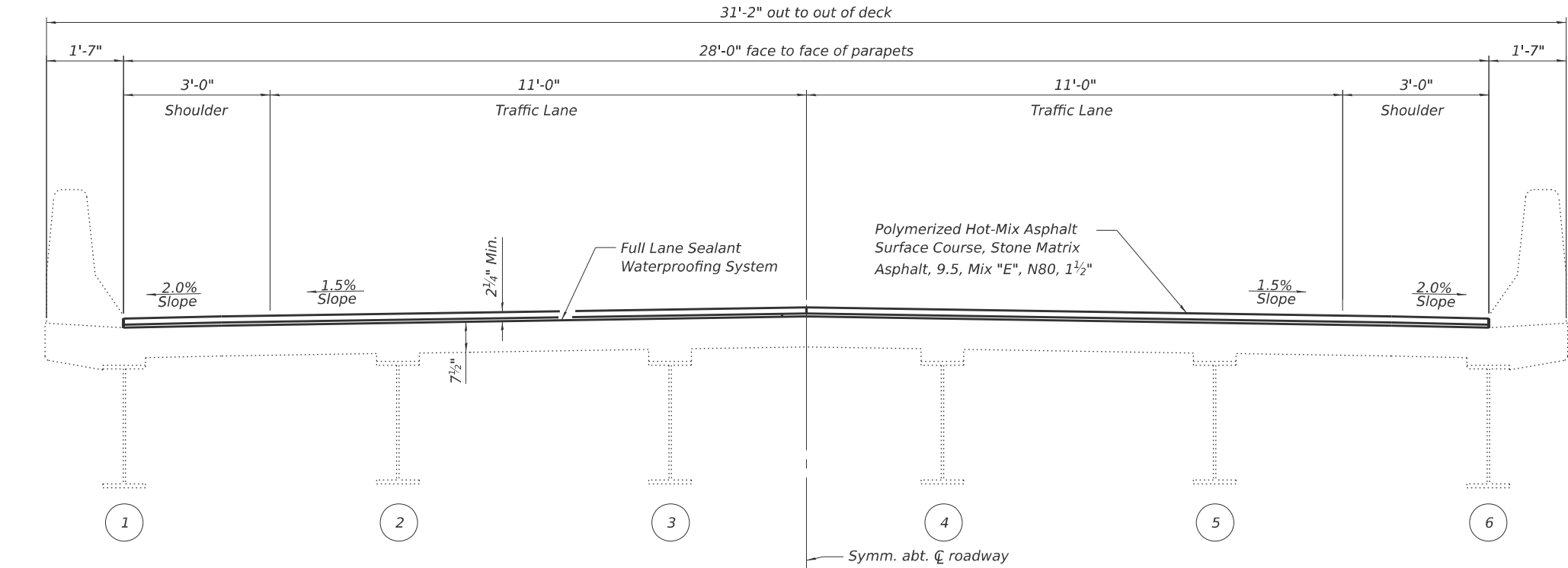
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 060-0146**

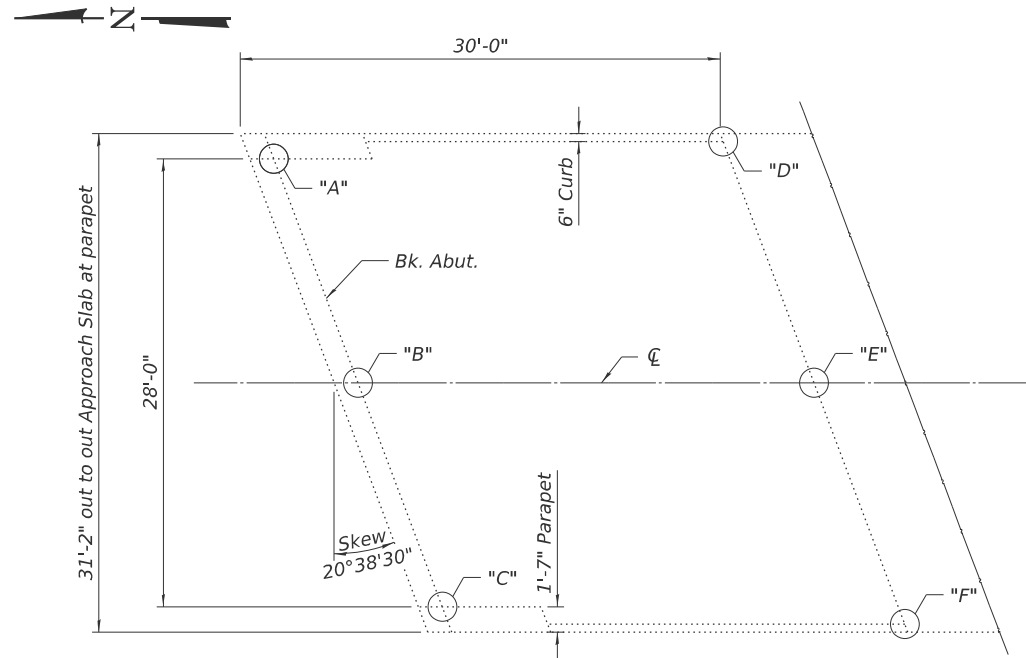
SHEET 4 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	511
		CONTRACT NO. 76E84		
		ILLINOIS FED. AID PROJECT		

MODEL: FULL SEALANT WATERPROOF SYSTEM
FILE NAME: pw://jacobs-us-vapw-04/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SH060-0146/D876E45-SHT-0600146-005-FULL SEALANT WATERPROOF SYSTEM

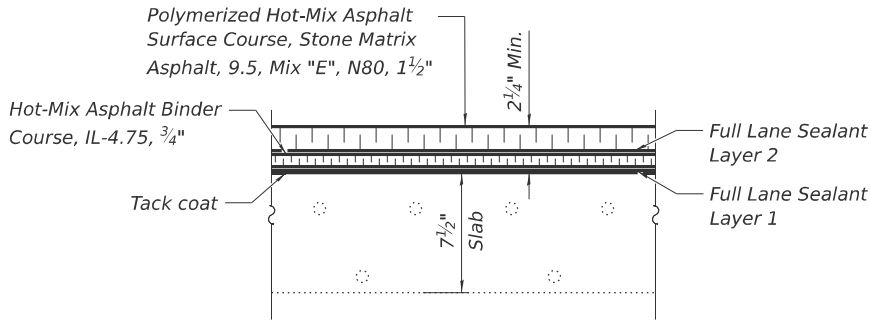


TYPICAL CROSS SECTION
(Looking South)



PLAN

(South approach slab shown, north approach slab similar by 180° rotation)



CROSS SECTION DETAILS

Note:
Full Lane Sealant Waterproofing System consists of an initial tack coat to promote bonding, Layer 1 of Full Lane Sealant, a layer of Hot-Mix Asphalt Binder Coarse, IL-4.75, and Layer 2 of Full Lane Sealant.
Full Lane Sealant Waterproofing System is to be placed on the deck and approaches.

**TOP OF SLAB ELEVATIONS
AT APPROACHES**

Point/Location	060-0146 N. Approach	060-0146 S. Approach
A	432.26	433.98
B	432.49	434.20
C	432.26	433.98
D	431.82	433.73
E	432.05	433.96
F	431.82	433.73

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "E", N80	TON	150
Full Lane Sealant Waterproofing System	SQ YD	1831



USER NAME =	credzic	DESIGNED -	A. SPALETTO	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$\$CALES\$	DRAWN -	A. SPALETTO	REVISED -	
PLOT DATE =	11/21/2025	CHECKED -	2025/10/03	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FULL LANE SEALANT WATERPROOFING SYSTEM
STRUCTURE NO. 060-0146**

SHEET 5 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	512
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: END DIAPHRAGM REPLACEMENT
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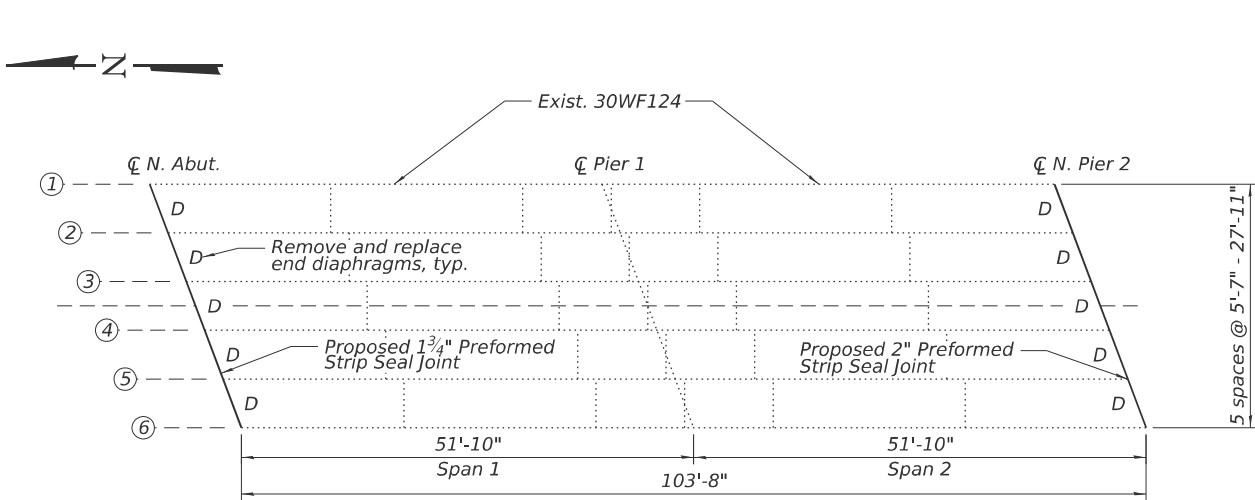
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

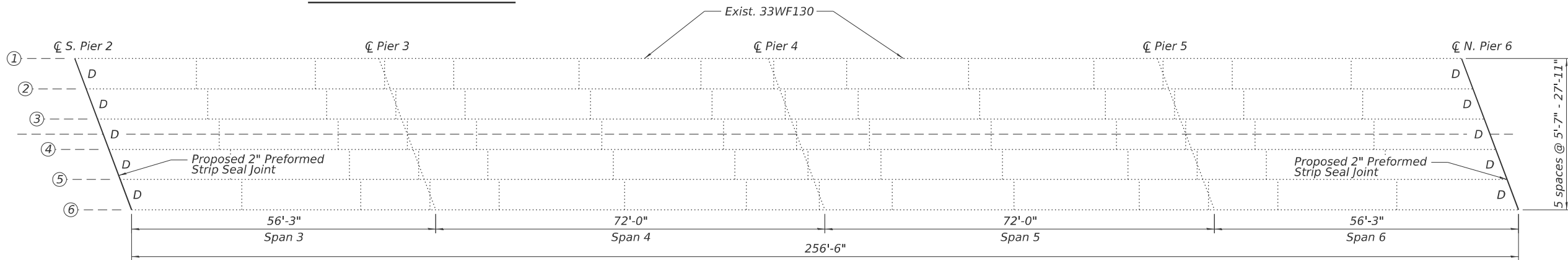
END DIAPHRAGM REPLACEMENT
STRUCTURE NO. 060-0146

SHEET 6 OF 15 SHEETS

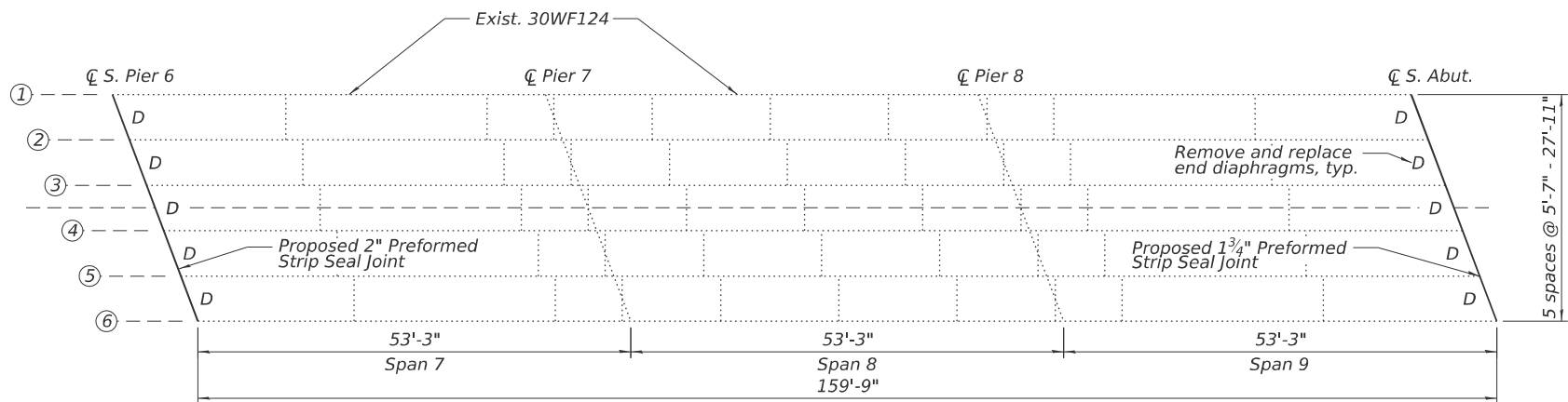
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	513
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



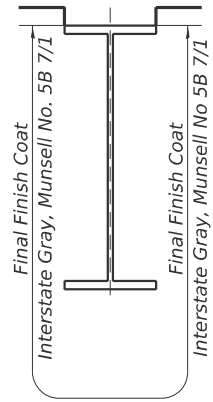
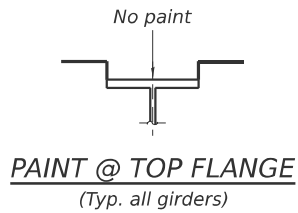
PLAN VIEW - SPANS 1 & 2



PLAN VIEW - SPANS 3, 4, 5, & 6

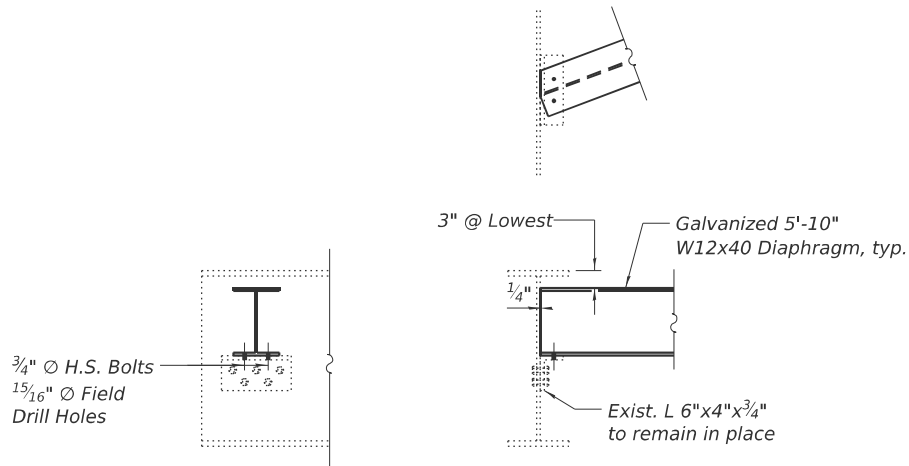


PLAN VIEW - SPANS 7, 8, & 9



GIRDER PAINTING
(Typ. all girders)

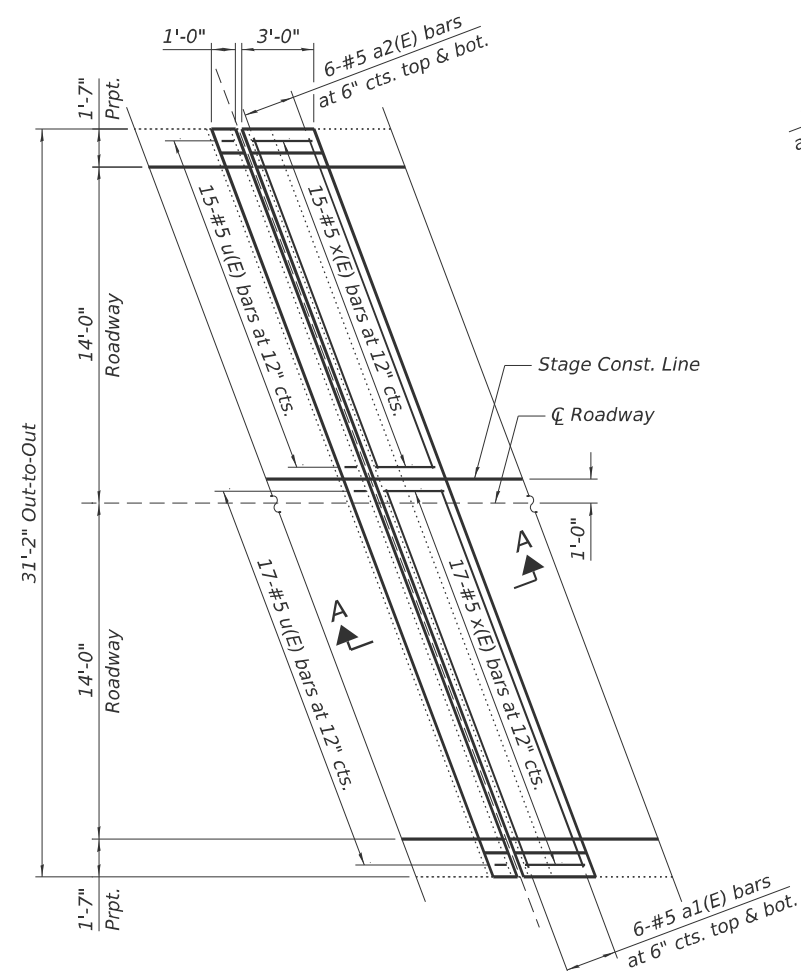
Notes:
All new fasteners shall be high strength bolts. Diaphragm connection holes shall be $\frac{15}{16}$ " $\varnothing$ holes for $\frac{3}{4}$ " $\varnothing$ bolts. Two hardened washers shall be required at diaphragm connections. Diaphragms and connection hardware shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
Surface preparation of existing steel in contact with new steel members shall be done according to GBSP 21 cleaning and painting contact surface area of existing steel structures.
Cost for removal and replacement of end diaphragms shall be included in Structural Steel Repair



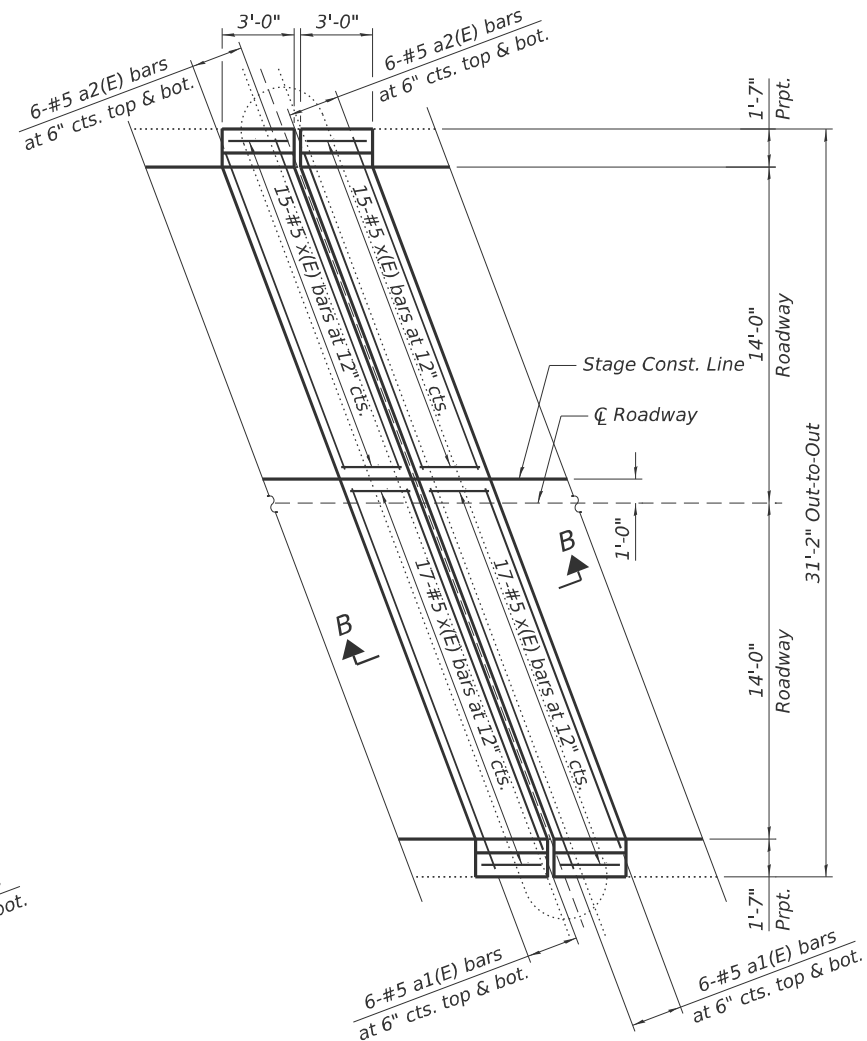
DIAPHRAGM "D"
(30 - UNITS)

BILL OF MATERIAL

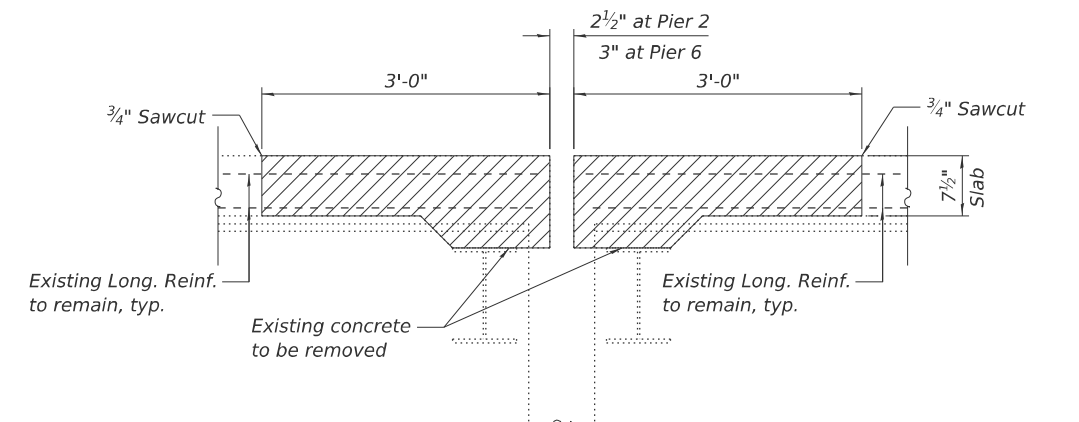
ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	7370
Furnishing and Erecting Structural Steel	Pound	7370
Cleaning and Painting Structural Steel, Location 7	L Sum	1
Containment and Disposal of Lead Paint Cleaning Residues No. 2	L Sum	1



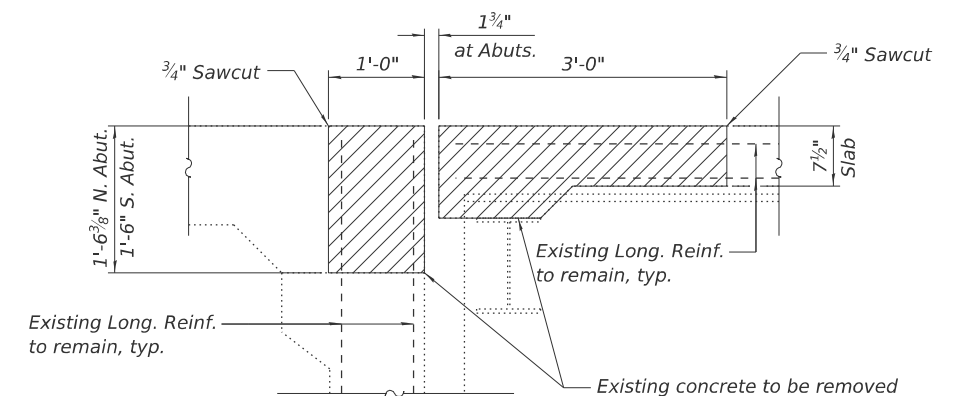
ABUTMENT JOINT RECONSTRUCTION PLAN



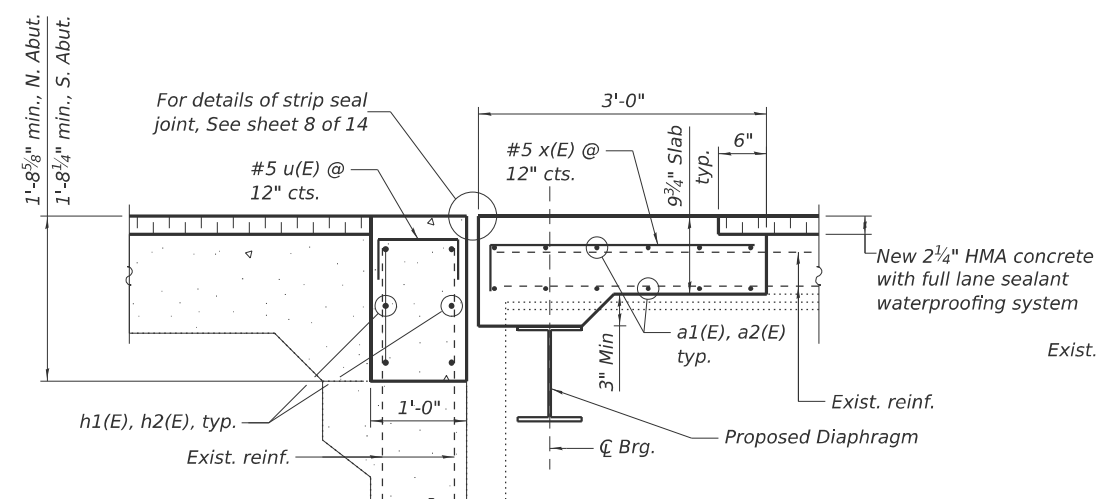
PIER JOINT RECONSTRUCTION PLAN



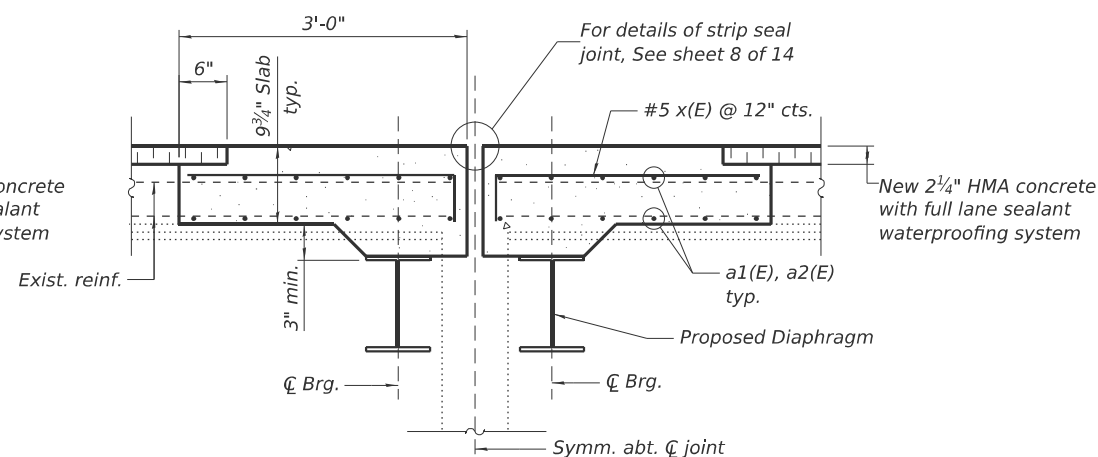
TYPICAL EXISTING PIER JOINT



TYPICAL EXISTING ABUTMENT JOINT



SECTION A-A
ABUTMENT JOINT RECONSTRUCTION



SECTION B-B
PIER JOINT RECONSTRUCTION

Notes:

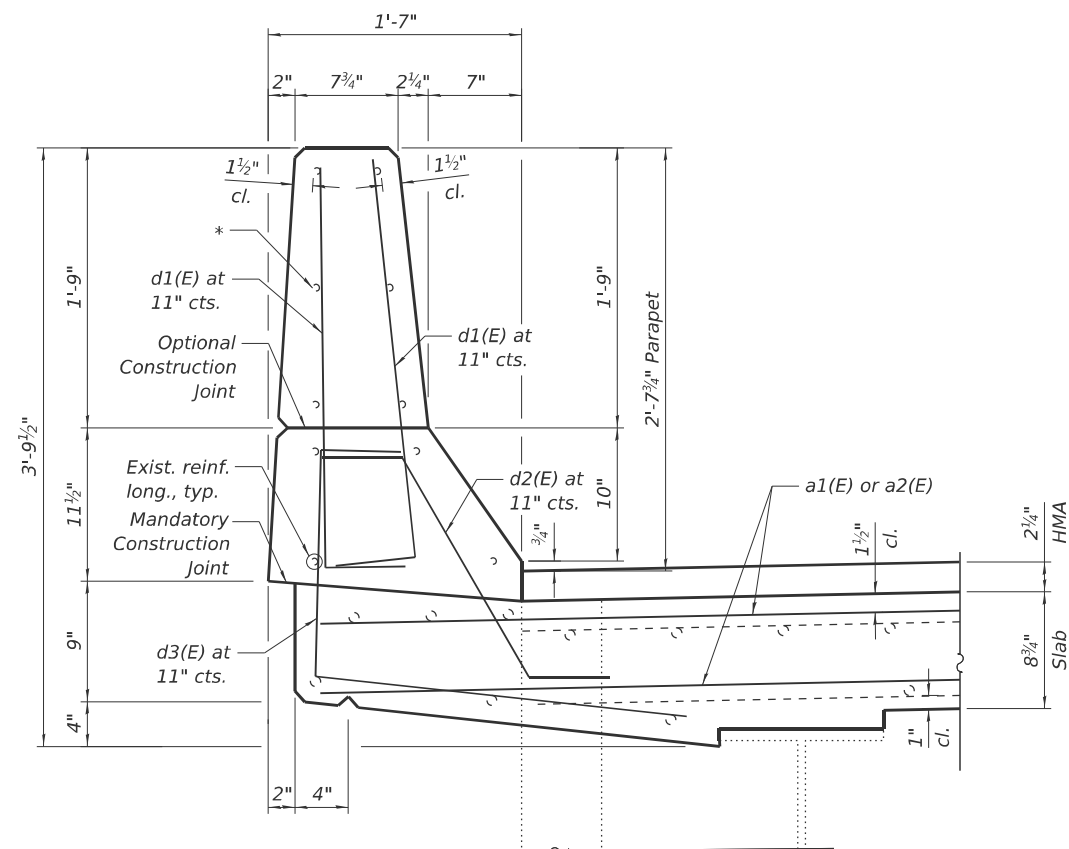
Removal of existing expansion joint devices shall be incidental to the "Concrete Removal" Pay item. Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.

Existing reinforcing steel bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcing steel bars that are damaged during Concrete Removal shall be replaced with approved bar splicer or anchorage system. Cost included with Concrete Removal.

All existing reinforcement in the parapets to remain in place.

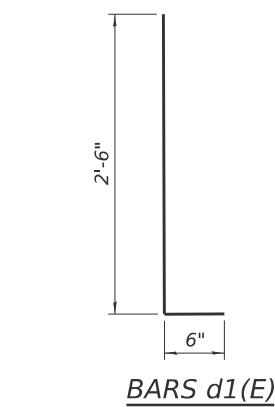
See Sheet 13 of 13 for Bar Splicers.

MODEL: EXPANSION JOINT REPLACEMENT
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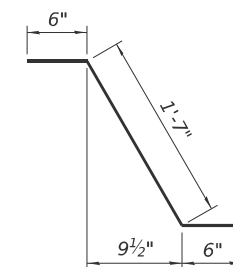


SECTION THRU PARAPET

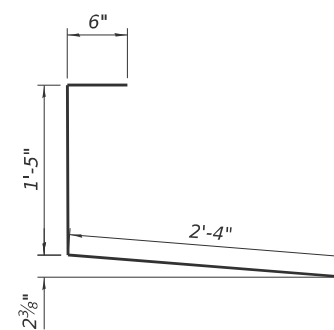
* Existing parapet reinforcement to incorporated into new parapet, typ.



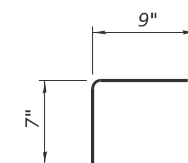
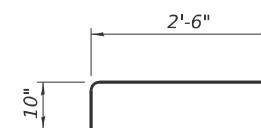
BARS d1(E)



BAR d2(E)



BAR d3(E)

 $u(E)$ BAR $x(E) \text{ BAR}$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	72	#5	17'-4 $\frac{3}{4}$ "	
a2(E)	72	#5	15'-3"	
d1(E)	48	#5	3'-0"	
d2(E)	48	#5	4'-3"	
d3(E)	48	#5	2'-7"	
h1(E)	12	#6	17'-4 $\frac{3}{4}$ "	
h2(E)	12	#6	15'-3"	
u(E)	68	#5	1'-11"	
x(E)	204	#5	3'-4"	
Concrete Removal			Cu. Yd.	23
Concrete Superstructure			Cu. Yd.	27.1
Reinforcement Bars, Epoxy Coated			Pound	4390
Bar Splicers			Each	84

USER NAME =	dredzic	DESIGNED -	A. SPALETTTO	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$SCALE\$	DRAWN -	A. SPALETTTO	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/11/21	REVISED -	

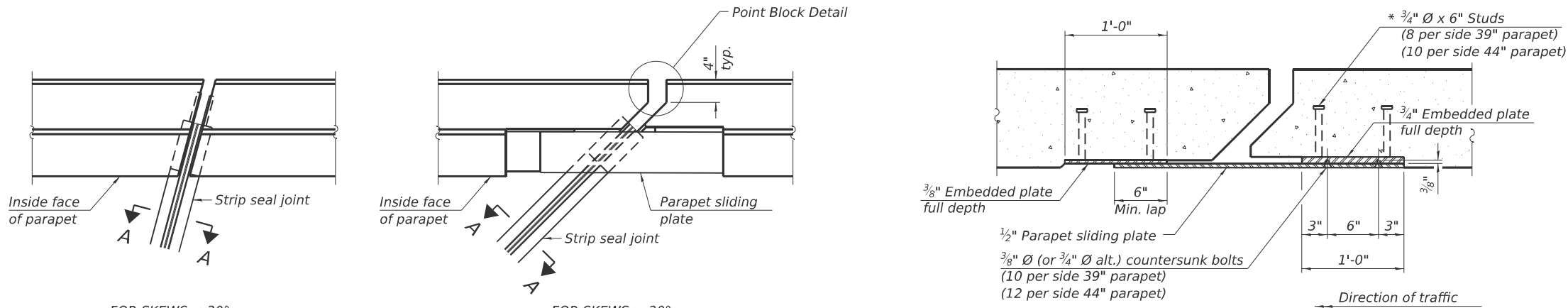
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAIL II
STRUCTURE NO. 060-0146

SHEET 8 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	51
		CONTRACT NO. 76E84		
ILLINOIS		FED. AID PROJECT		

MODEL: PREFORMED JOINT STRIP SEAL
FILE NAME: pwr/jacobs-us-va-pw-04/Documents/D3152206.02 - ILDOT - I-55 L-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0146/D876E45-SHT-0600146-009-PREFORMED JOINT STRIP SEAL
11/21/2025 11:29:09 AM



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

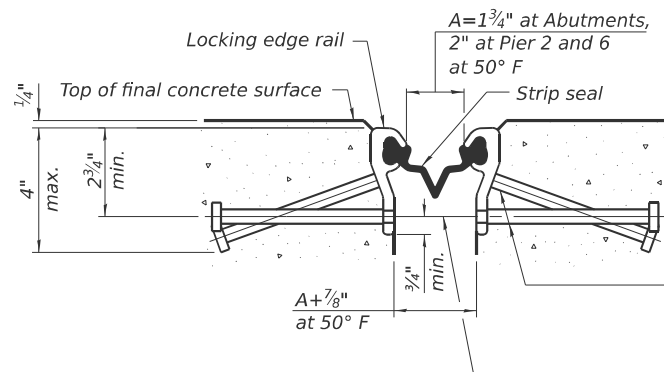
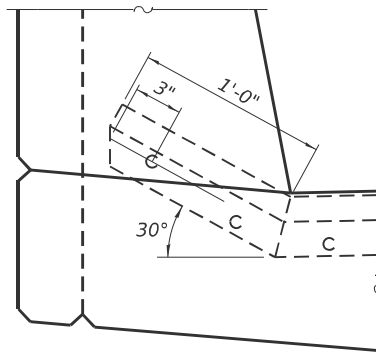
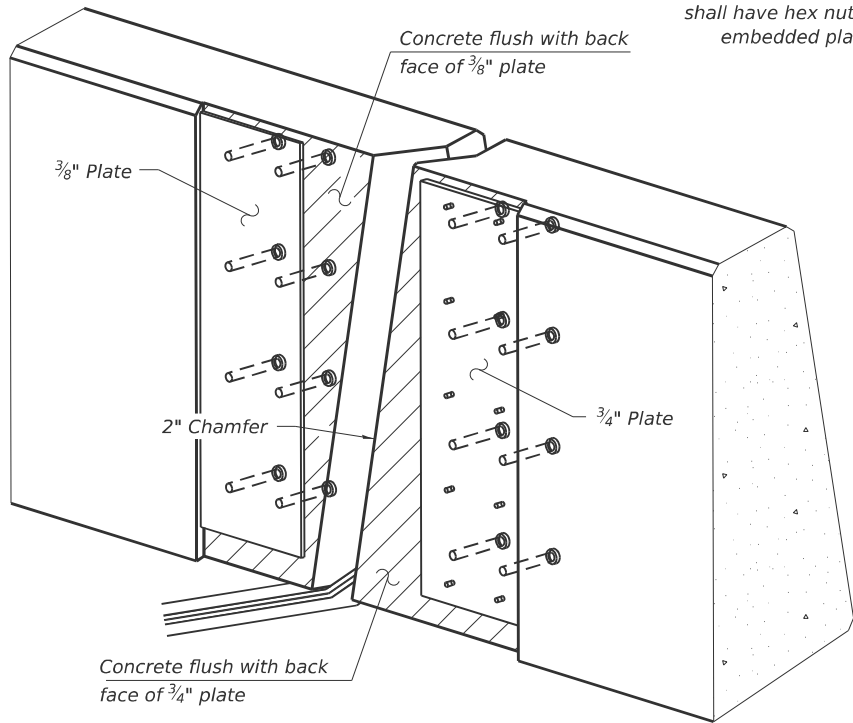
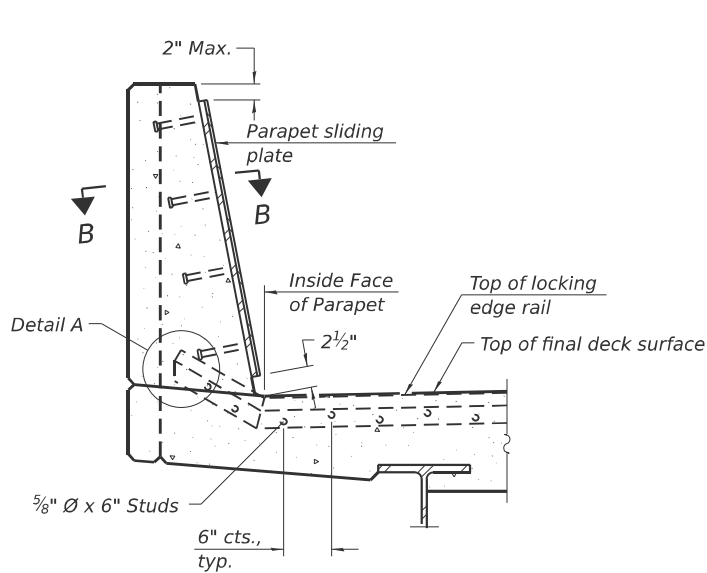
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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.



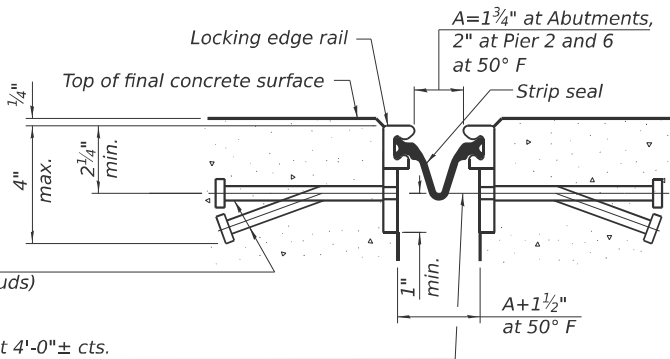
* $\frac{5}{8}$ " $\varnothing$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

$\frac{3}{8}$ " $\varnothing$ threaded rods in $\frac{7}{16}$ " $\varnothing$ holes at 4'-0" $\pm$ 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.

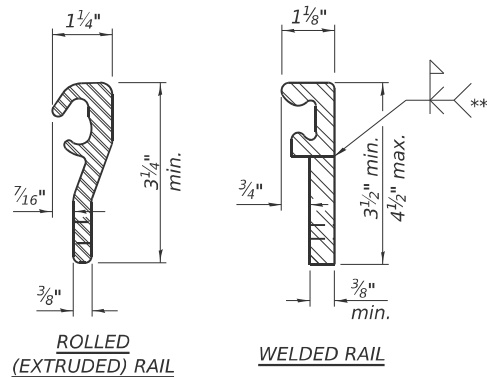
SECTION A-A

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

LOCKING EDGE RAILS



SHOWING WELDED RAIL JOINT



** 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	129



USER NAME =	credzic	DESIGNED -	A. SPALETTO	REVISED -	
PLOT SCALE =	\$SCALES\$	CHECKED -	L. BENITEZ	REVISED -	
PLOT DATE =	11/21/2025	DRAWN -	A. SPALETTO	REVISED -	
		CHECKED -	2025/10/03	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 060-0146**

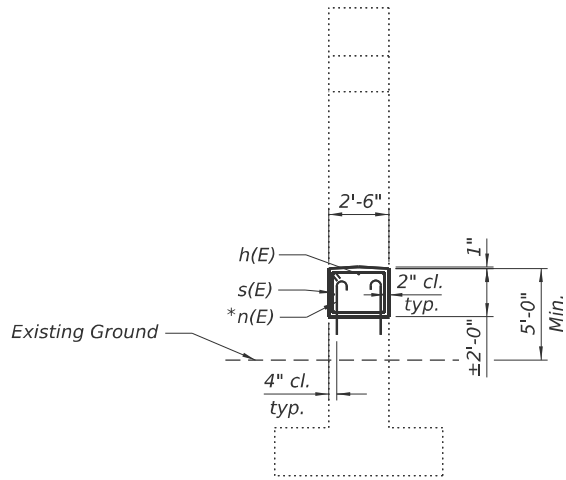
SHEET 9 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	515
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

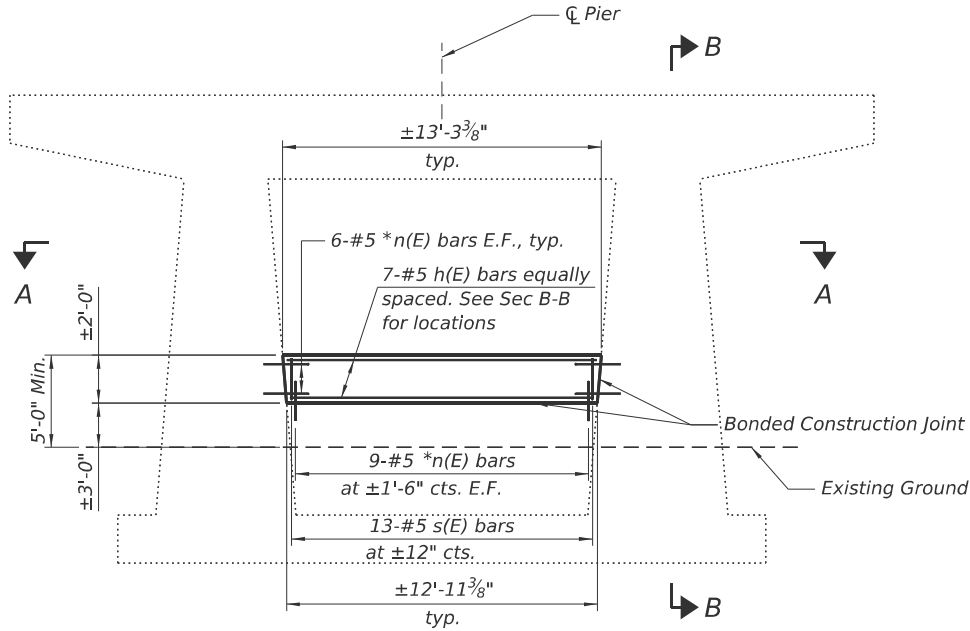


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 76E84		
ILLINOIS		FED. AID PROJECT		

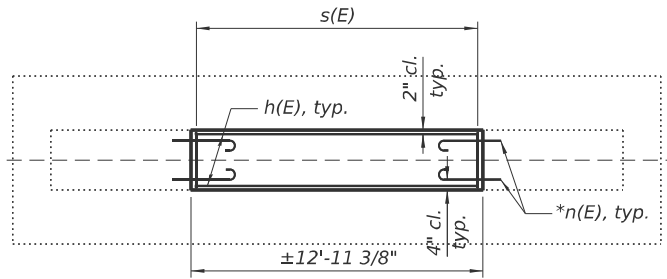
MODEL: PIERS 3 AND 5 CRASHWALL DETAILS
FILE NAME: pwr/jacobs-us-vp-pw-04/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SH060-0146/D876E45-SHT-0600146-014-PIERS 3 & 5 CRASHWALL DET



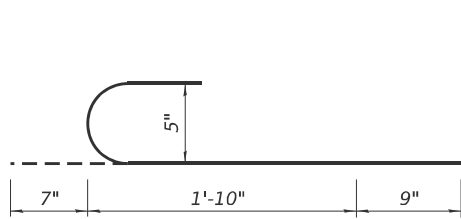
SECTION B-B



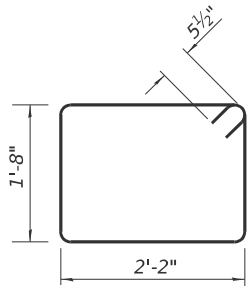
PIER 3 ELEVATION
(Pier 5 Similar)



SECTION A-A



BAR n(E)



BAR s(E)

Notes:
E.F. indicates each face.

*Epoxy grout n(E) bars in 9" min holes according to Article 584 of the Standard Specifications

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	12'-7"	—
n(E)	60	#5	3'-2"	⌋
s(E)	26	#5	8'-7"	⌋
Concrete Structures			Cu. Yd.	5
Reinforcement Bars, Epoxy Coated			Pound	620

COLLINS
ENGINEERS
INC.

USER NAME = credzic
PLOT SCALE = \$SCALE\$
PLOT DATE = 11/21/2025

DESIGNED - A. SPALETTO
CHECKED - L. BENITEZ
DRAWN - A. SPALETTO
CHECKED - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

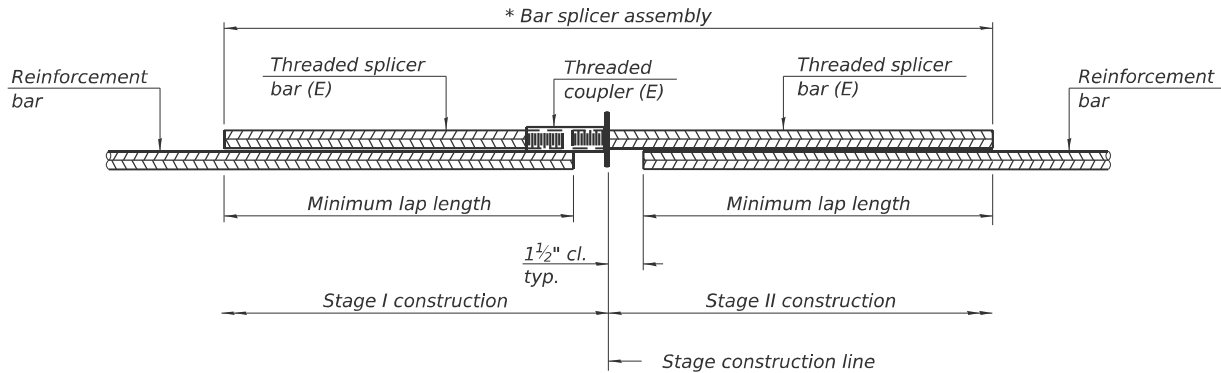
PIERS 3 AND 5 CRASHWALL DETAILS
STRUCTURE NO. 060-0146

SHEET 14 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	520
				CONTRACT NO. 76E84
		ILLINOIS	FED. AID PROJECT	

11/21/2025 11:36:34 AM

MODEL: BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
FILE NAME: pw://jacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw-04/Documents/D3152206.02_ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SH0060-0146/D876E45-SHT-0600146-015-BAR SPLICERS



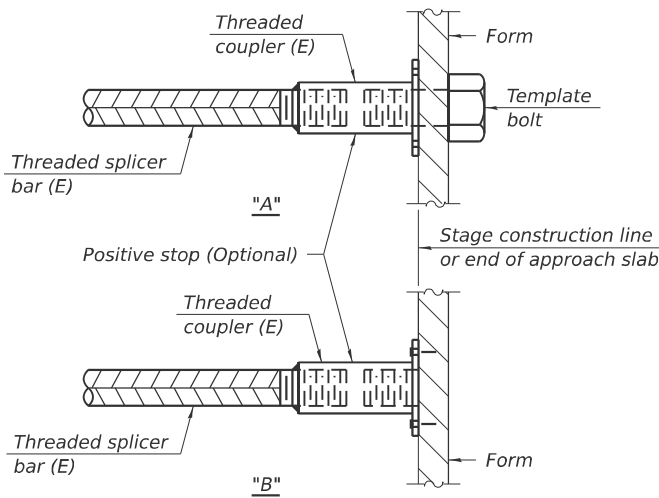
STANDARD BAR SPLICER ASSEMBLY PLAN

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.

Standard Bar Splicer Assembly Location	Bar Size	No. assemblies required	Minimum lap length
Abutment Back Wall	#6	12	3'-1"
Deck Bars	#5	72	3'-10"

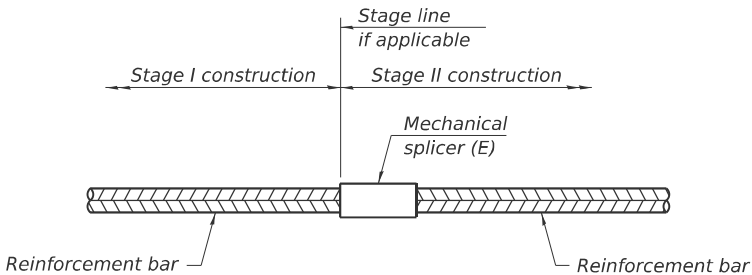


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

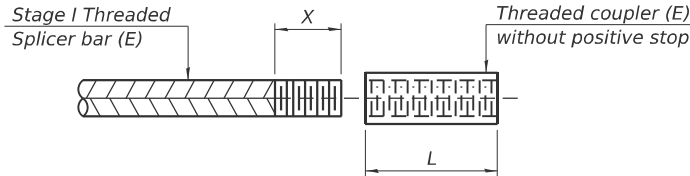
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(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.

BSD-1

4-4-2025



USER NAME =	credzic	DESIGNED -	A. SPALETTO	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$CALE\$	DRAWN -	A. SPALETTO	REVISED -	
PLOT DATE =	11/21/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAIL
STRUCTURE NO. 060-0146

SHEET 15 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	521
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

Benchmark: Southwest corner of steel lid on concrete box, C F.A.I. Rte 70, West side railroad track electrical junction box El. 418.51.

Existing Structures: SN 060-0208 & 060-0209 were built in 1980 as FAI Route 70, Section 60-6VBR at Sta. 303+47.90. The structures were repaired in 2001 by means of deck repairs and mudwall replacements. The structures are 5-span composite steel beam (weathering steel) bridges supported by reinforced concrete stub abutments founded on concrete and steel piles and reinforced concrete piers founded on battered steel piles. The bridges measure 411'-3" back-to-back abutments and 59'-2" out-to-out, with 0° skew.

Traffic Control: Stage Construction.

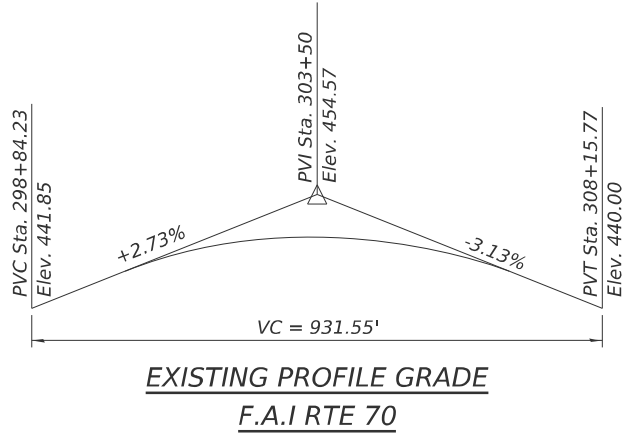
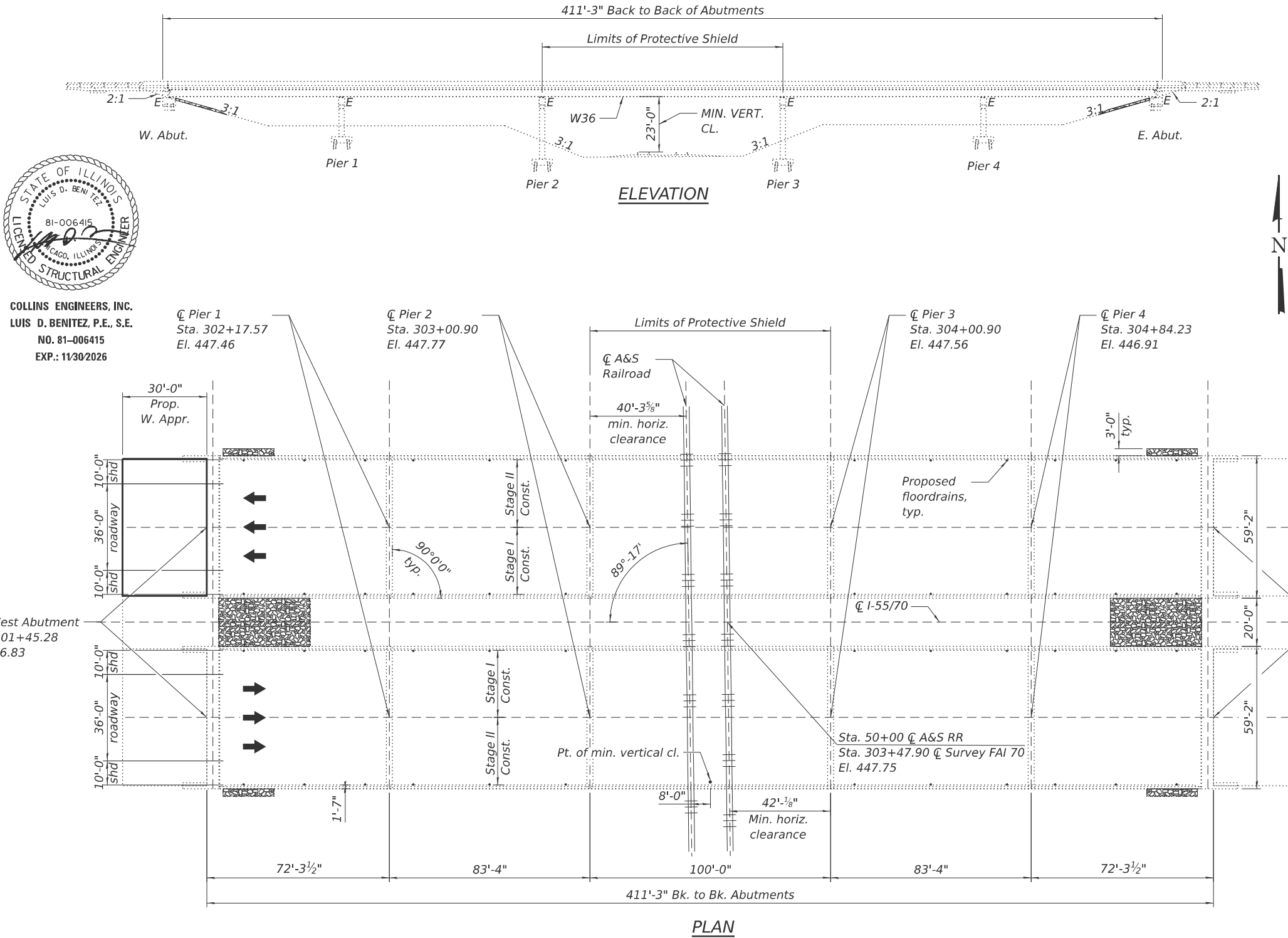
No Salvage.

DESIGN SPECIFICATIONS
2002 AASHTO LRFD Bridge Design
Specifications, 17 Edition

LOADING HS-20
No future wearing surface.

SCOPE OF WORK

1. Perform localized full depth repairs to the bridge deck.
2. Perform scarification (1/2") and hydo-demolition (1/2") and apply a 3" latex concrete overlay on the deck.
3. Install 48 floor drains on the N. and S. sides of Spans 1, 2, 4, and 5.
4. Replace silicone expansion joints at both abutments with preformed strip seals.
5. Remove and replace 3 feet of the deck ends at all joint replacement locations.
6. Install steel angle repair plates on all beam ends along 2 feet of beam ends.
7. Clean and paint, matching the color brown, 10 linear feet of beam ends.
8. Remove and replace all end diaphragms over the abutments.
9. Replace all expansion bearings at both abutments.
10. Perform formed concrete repairs to the abutments.
11. Replace the entire west approach on Structure 060-0209.
12. Perform formed concrete repairs to the N. & S. parapets on Structure 060-0209.
13. Re-grade and install riprap at all wingwalls and the median between wingwalls.



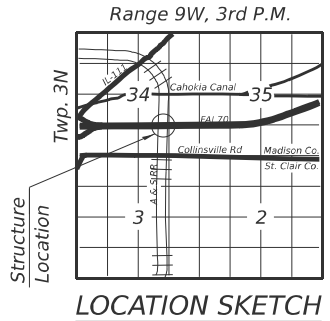
DESIGN STRESSES

FIELD UNITS (EXISTING CONDITION)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural Weathering Steel)

FIELD UNITS (NEW CONSTRUCTION)

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)



GENERAL PLAN AND ELEVATION
I-55/70 OVER THE A&S RAILROAD
F.A.I. 70 - SECTION 60-6RS-2
MADISON COUNTY
STATION 303+47.90
SN: 060-0208 & 060-0209

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 060-0208 & 060-0209

SHEET 1 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	522
				CONTRACT NO. 76E84
				ILLINOIS FED. AID PROJECT

MODEL: GPE
FILE NAME: p:\jacobson-us-vp-pw-bentley.com\jacobson-us-vp-pw-bentley.com\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SH060-0208 & 060-0209\060-0208 & 060-0209\060-0208-001-GPE

COLLINS ENGINEERS, INC.

USER NAME = ctedzic
PLOT SCALE = \$SCALES\$
PLOT DATE = 11/26/2025

DESIGNED - C. MORROW
CHECKED - L. BENITEZ
DRAWN - C. MORROW
CHECKED - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

GENERAL NOTES

1.

All new structural steel shall be AASHTO M270 Grade 50, unless otherwise noted.
2.

The Contractor shall obtain a construction permit from the railroad.
3.

No field welding is permitted except as specified in the contract documents.
4.

Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized. See Special Provision for “Hot Dip Galvanizing for Structural Steel.” Bolts ¾" diameter, holes 1⅜" diameter, unless otherwise noted.
5.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
6.

Reinforcement bars designated (E) shall be epoxy coated.
7.

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
8.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars damage during concrete removal shall be replaced with an approved bar splicer or anchorage system at the Contractors expense.
9.

The existing structural steel and bearings coating contains lead. The Contractor shall take precautions to deal with the presence of lead on this project.
10.

Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.
11.

Joint openings shall be adjusted to Article 520.04 of the Std. Specs. When the concrete adjacent to joints is poured at an ambient temperature other than 50° F.
12.

The Inorganic Zinc Rich Primer / Epoxy / Urethane paint system shall be used in shop and field for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that the exterior surfaces and bottom of the bottom flange of the fascia beams, masked off connection surfaces, and field installed fasteners, shall be touched up and finish coated in the field. The color of the final finish coat for all steel surfaces shall be Reddish Brown, Munsell No 2.5YR 3/4. Cost to be included in Cleaning and Painting Steel Bridge.
13.

Cleaning and painting of existing structural steel shall be as specified in the special provision for GBSP-21 "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". All beams, and other structural steel within 5 feet (measured along the beam) of either side of a repair area shall be cleaned per Near White Blast Cleaning - SSPC-SP10 and/or per Commercial Grade Power Tool Cleaning - SSPC-SP15. All cost is included under with Cleaning and Painting Steel Bridge or Structural Steel Repair pay item.
14.

Treat all structural steel repair areas as primary connections.
15.

A minimum of 4 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."
16.

SSPC QP1 and QP2 Painting Contractor Certification are required for the cleaning and painting work.
17.

The placement of the Bridge Deck Latex Concrete Overlay is recommended to be poured overnight.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Index of Sheets, & Bill of Materials
3. Staged Construction Details
4. Temporary Concrete Barrier
5. SN 060-0208 Deck Repairs
6. SN 060-0209 Deck Repairs
7. Diaphragm and Floor Drain Repair Details
8. Bridge Approach Slab Details (1 of 2)
9. Bridge Approach Slab Details (2 of 2)
10. Approach Slab Elevations
11. Parapet Repair Details (SN: 060-0209)
12. Expansion Joint Replacement and Painting Details
13. Preformed Joint Strip Seal
14. Elastomeric Bearing, Type II Repairs
15. Beam End Angle Repairs
16. East and West Abutment Repairs
17. Riprap Installation
18. Bar Splicer Assembly and Mechanical Splicer Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	Quantity
Stone Rip Rap, Class A1	Tons	48
Stone Rip Rap, Class A4	Sq. Yd.	248.4
Filter Fabric	Sq. Yd.	248.4
Concrete Removal	Cu. Yd.	134.1
Protective Shield	Sq. Yd.	1320
Floor Drains	Each	48
Concrete Structures	Cu. Yd.	17.7
Concrete Superstructure	Cu. Yd.	42.4
Concrete Superstructure (Approach Slab)	Cu. Yd.	81.8
Furnishing and Erecting Structural Steel	Pound	13592
Cleaning and Painting Steel Bridge No. 8	L. Sum	1
Cleaning and Painting Steel Bridge No. 9	L. Sum	1
Reinforcement Bars, Epoxy Coated	Pound	39,090
Bar Splicers	Each	220
Preformed Joint Strip Seal	Foot	236.8
Elastomeric Bearing Assembly, Type II	Each	28
Anchor Bolts, 1"	Each	56
Concrete Sealer	Sq. Ft.	2834
Bridge Deck Grooving	Sq. Yd.	5560
Structural Steel Removal	Pound	9150
Protective Coat	Sq. Yd.	5880
Jack and Remove Existing Bearings	Each	28
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq. Yd.	5580
Containment and Disposal of Lead Paint Cleaning Residue No. 8	L. Sum	1
Containment and Disposal of Lead Paint Cleaning Residue No. 9	L. Sum	1
Bridge Deck Scarification 1"	Sq. Yd.	5020
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	31
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	22



USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$\$CALE\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/22/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

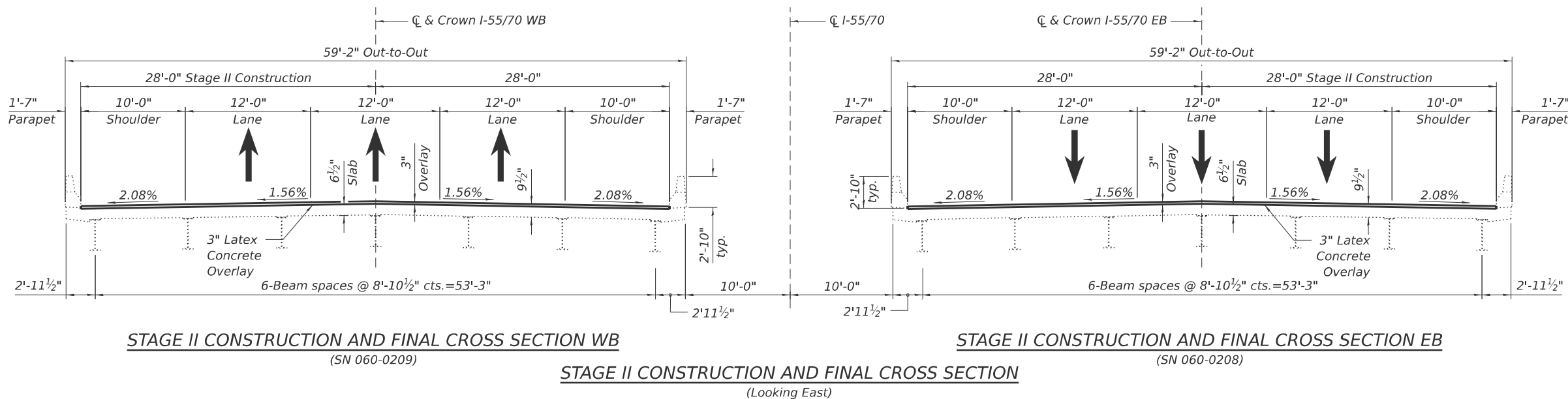
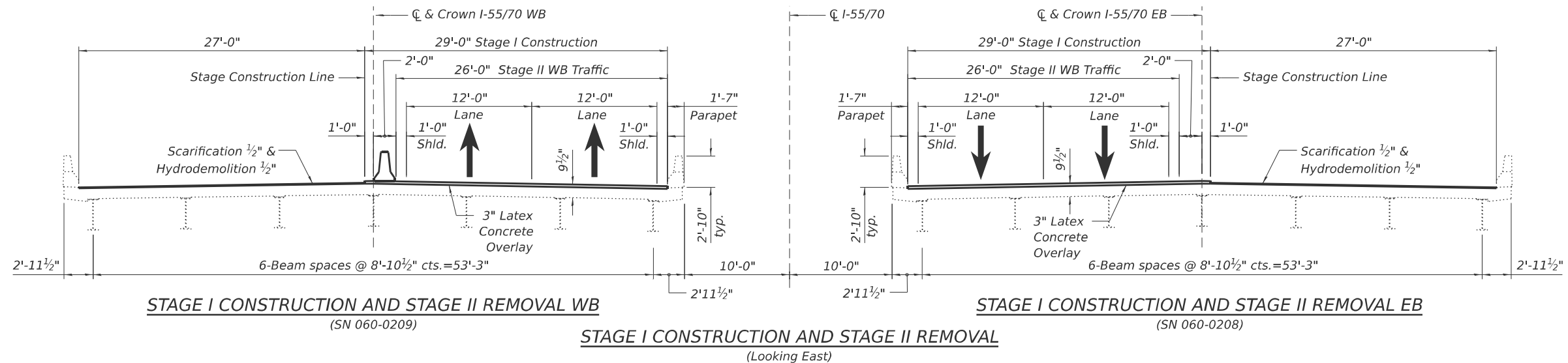
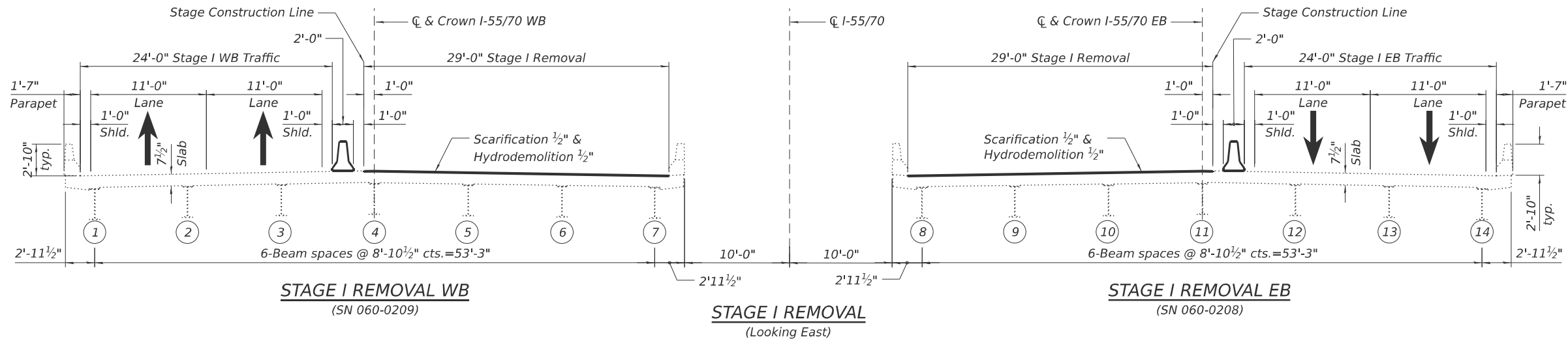
GENERAL NOTES, INDEX OF SHEETS, & BILL OF MATERIALS
STRUCTURE NO. 060-0208 & 060-0209

SHEET 2 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	523
			CONTRACT NO. 76E84	
		ILLINOIS	FED. AID PROJECT	

MODEL: GENOTES
FILE NAME: pw/jjacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw-04/Documents/D3152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0208 & 060-0209/D876E45-SHT-0600208&0600209-002-GENOTES
11/22/2025 5:11:29 PM

MODEL: STAGED CONSTRUCTION DETAILS
FILE NAME: p:\jacobson-us-va-pw-04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SH060-0208 & 060-0209\060-0208&060-0209-003-STAGED CONSTRUCTION DETAILS



LEGEND



Temporary Concrete Barrier.

Notes:
For quantity of Temporary Concrete Barrier, see roadway plans. Stage removal and construction shown in sections is limited to expansion joint replacement, bearing replacement, and deck end treatment repairs.



USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$Scales\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/22/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 060-0208 & 060-0209

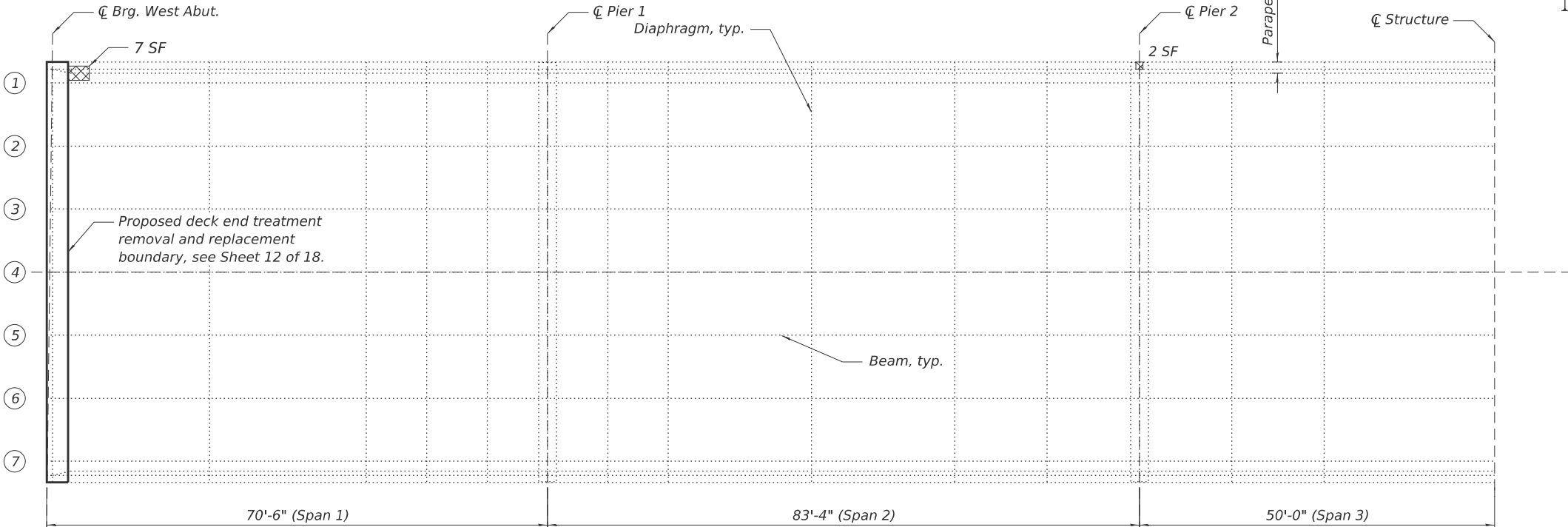
SHEET 3 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	524
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

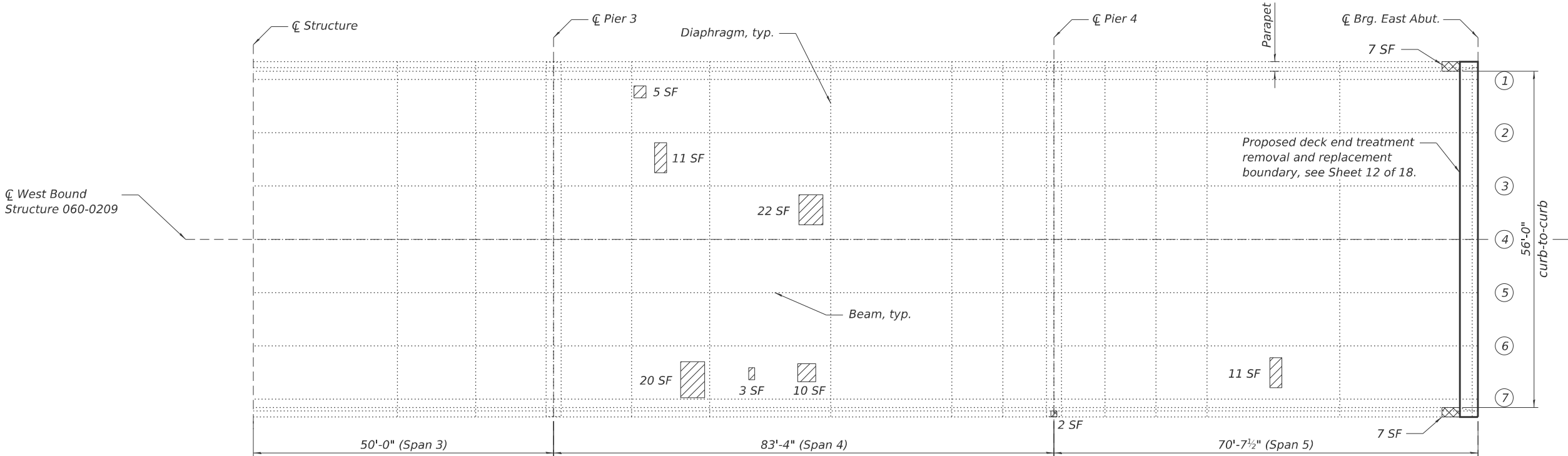
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	SQ YD	10
Bridge Deck Latex Concrete Overlay, 3"	SQ YD	2510
Concrete Bridge Deck Scarification, 1"	SQ YD	2510
Bridge Deck Grooving	SQ YD	2420
Protective Coat	SQ YD	2560

Notes:
Repair areas and locations shown are estimates. The Engineer shall document actual areas and locations of full depth on As-Built Plans.
Prior to Deck Slab Repairs, a 3/4" deep saw cut shall be made along all boundaries of removal areas adjacent to areas to remain in place.



DECK PLAN VIEW



DECK PLAN VIEW

LEGEND

- Deck Slab Repair (Full Depth)
- Chip away loose concrete, clean and paint exposed reinforcing steel bars on the deck underside
- SF Square Feet

MODEL: 0600209 Deck Repairs
FILE NAME: pw://jacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw.bentley.com/Projects/0600209 Deck Repairs
PROJECT: I-55 L-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0208 & 060-0209/060-0209 DECK REPAIRS
DATE: 11/22/2025 5:34:25 PM



USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$CALE\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/22/2025	CHECKED -	2025/10/03	REVISED -	

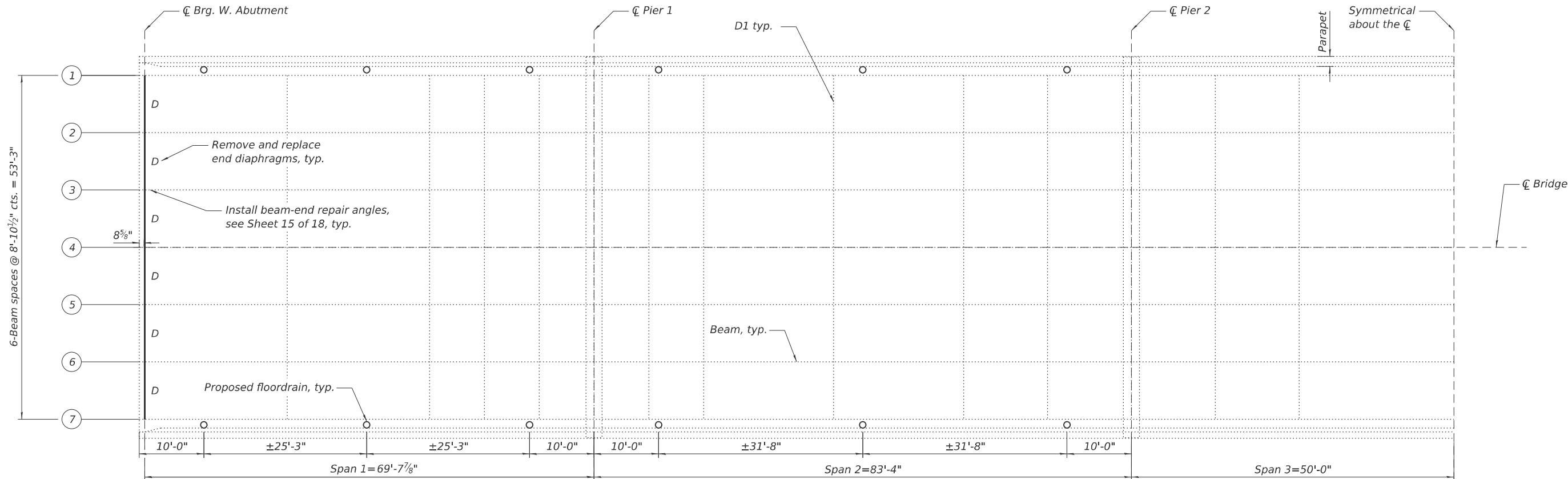
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 060-0209 DECK REPAIRS
STRUCTURE NO. 060-0208 & 060-0209

SHEET 6 OF 18 SHEETS

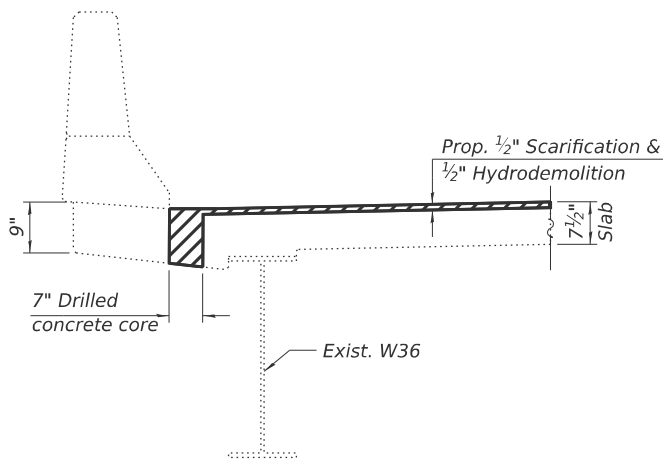
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	527
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: DIAPHRAGM AND FLOOR DRAIN DETAILS
FILE NAME: pww\jacobs-us-va-pw-04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SH060-0208 & 060-0209\060-0208-07-DIAPHRAGM AND FLOOR DRAIN DETAILS

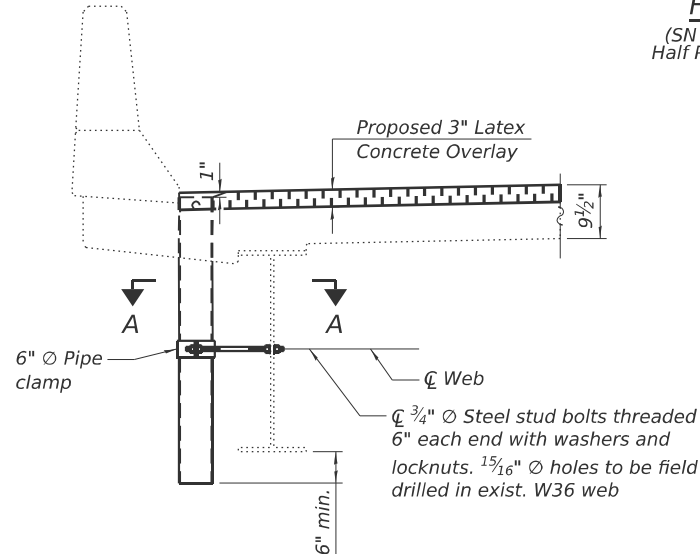


FRAMING PLAN

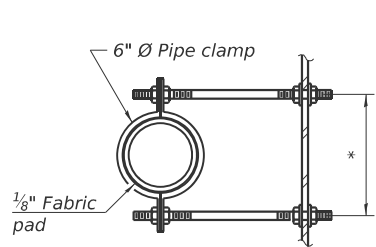
(SN 060-0208 & 060-0209)
Half Plan shown, symmetrical
about $\bar{C}$ Span 3



**FLOOR DRAIN CONCRETE DECK REMOVAL
FOR SPANS 1, 2, 4, & 5**

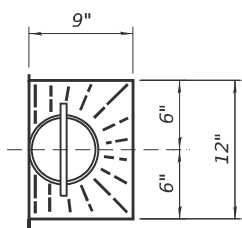


**FLOOR DRAIN INSTALLATION
FOR SPANS 1, 2, 4, & 5
(48 - Count)**

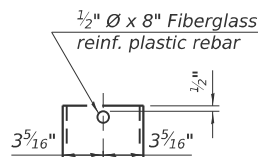


SECTION A-A

*Dimension as required by pipe clamp



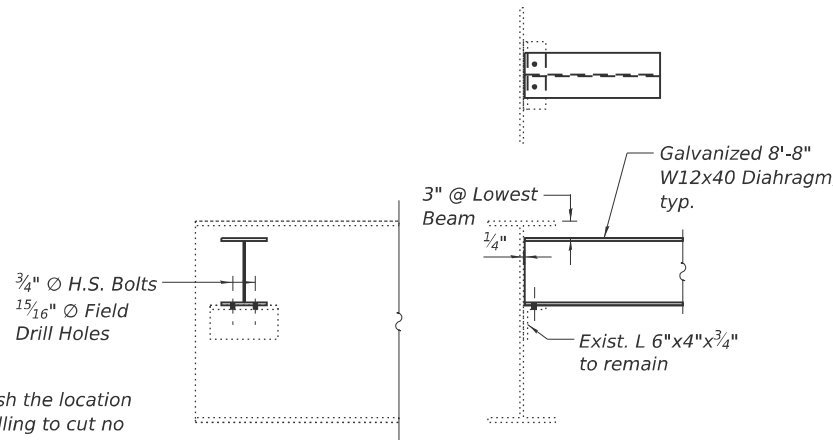
TOP PLAN



**FIBERGLASS
PIPE**

Notes:

- The contractor shall use the Nondestructive Method to establish the location of existing top transverse reinforcement in the deck prior to drilling to cut no more than 1 transverse rebar for the floor drain installation.
- Perimeter of the fiberglass pipe through the deck shall be sealed with approved epoxy, all cost included with Floor Drains pay item.
- Floor drains shall be cored and set in place prior to the 3" latex concrete overlay installation.
- Floor drains need not be painted.
- Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 P.S.I. minimum.
- The clamping device shall be galvanized according to AASHTO M 232. Cost included with floor drains.
- Drains shall be located clear of diaphragms
- Cost of removing concrete for the proposed floor drains shall be included with Floor Drains.
- Fasteners shall be ASTM F3125 Grade A325 Type 1, hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel", $\frac{15}{16}$ " $\bar{O}$ holes for $\frac{3}{4}$ " $\bar{O}$ bolts.
- Diaphragms and connection hardware shall be hot-dipped galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Surface preparation of existing steel in contact with new steel members shall be done according to GBSP 21 cleaning and painting contact surface area of existing steel structures.



**Diaphragm "D"
(24 - Count)**

LEGEND

- D Diaphragm "D"
- D1 Diaphragm "D1"

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Floor Drains	Each	48
Structural Steel Removal	Pound	9150
Deck Slab Repair Full Depth, Type II	SQ YD	2
Furnishing and Erecting Structural Steel	Pound	9150

**COLLINS
ENGINEERS**

USER NAME = credzic
PLOT SCALE = \$SCALES\$
PLOT DATE = 11/24/2025

DESIGNED - C. MORROW
CHECKED - L. BENITEZ
DRAWN - C. MORROW
CHECKED - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

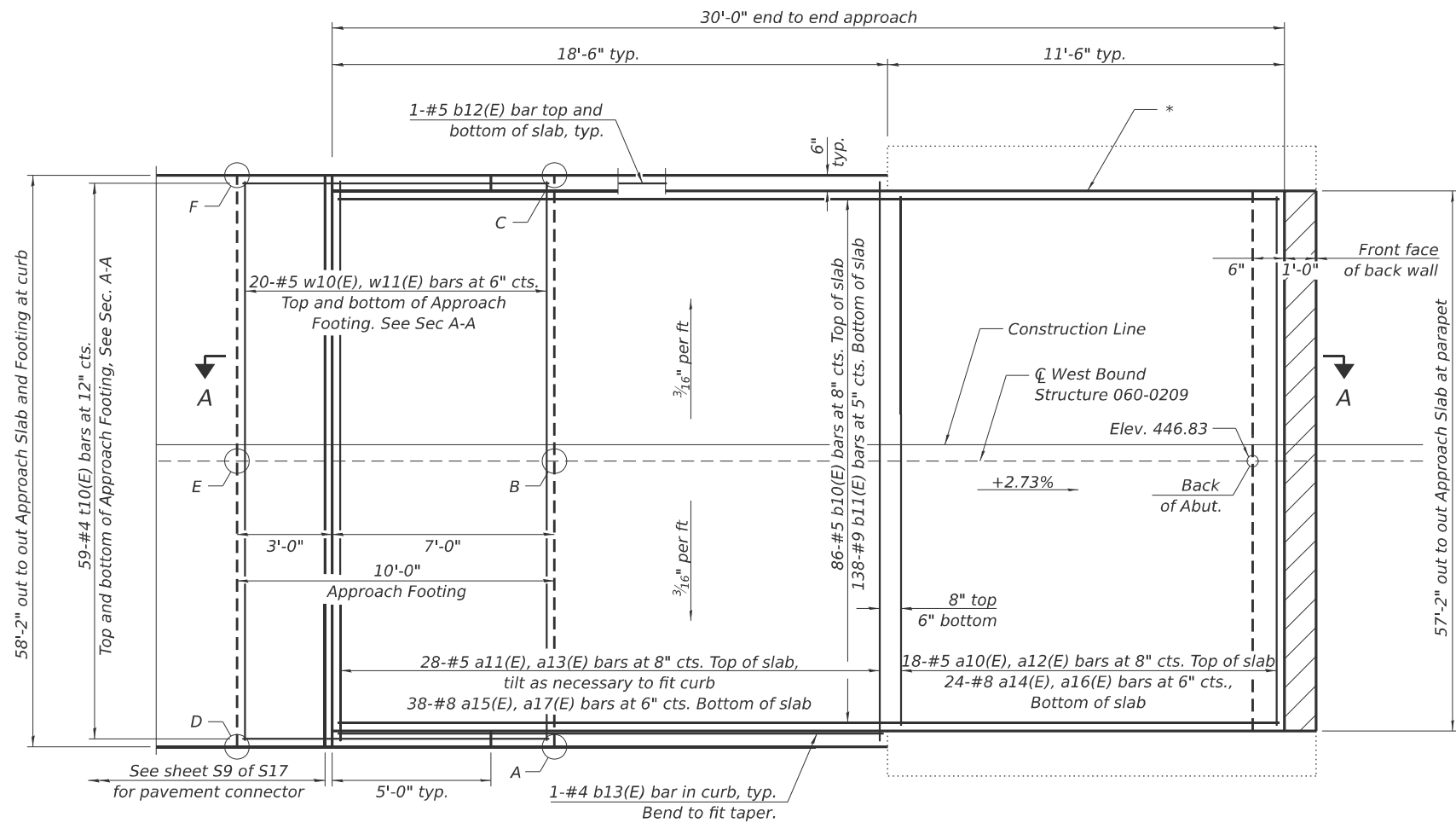
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM AND FLOOR DRAIN REPAIRS
STRUCTURE NO. 060-0208 & 060-0209**

SHEET 7 OF 18 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
70 82-(5,6)RS-2, 60-6RS-2 MADISON & ST. CLAIR 678 528
CONTRACT NO. 76E84
ILLINOIS FED. AID PROJECT

MODEL: 0600209 APPROACH SLAB 1 OF 2
FILE NAME: pw://jacobs-us-vapw-04/Documents/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SH0600209-008-0600209 APPROACH SLAB 1 OF 2

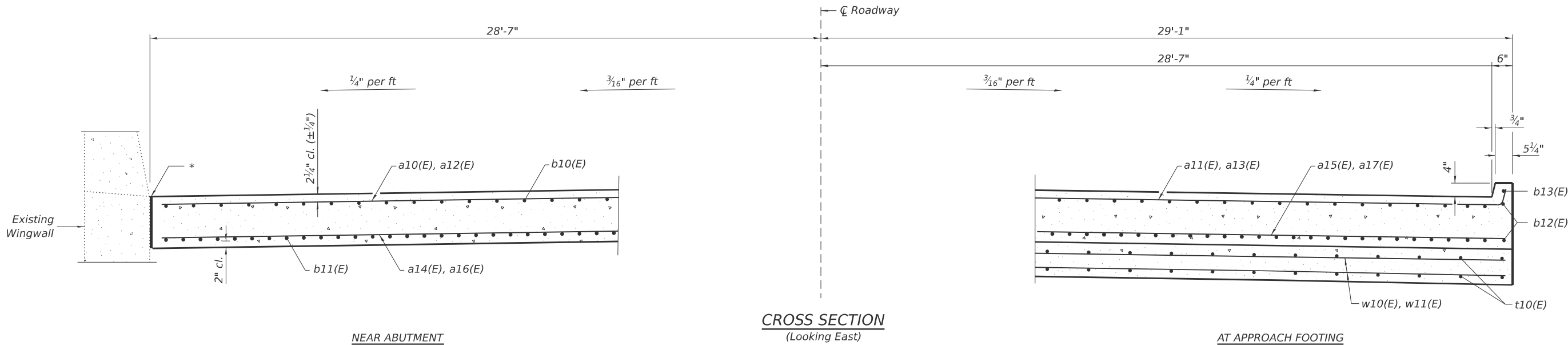


PLAN
(SN: 060-0209 west approach slab shown)

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

060-0209 W. Approach		
Point/ Location	Top	Bottom
A -	444.88	444.05
B -	445.32	444.49
C -	444.88	444.05
D -	444.75	443.92
E -	445.20	444.36
F -	444.75	443.92

* 1/2"Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.



CROSS SECTION
(Looking East)

AT APPROACH FOOTING



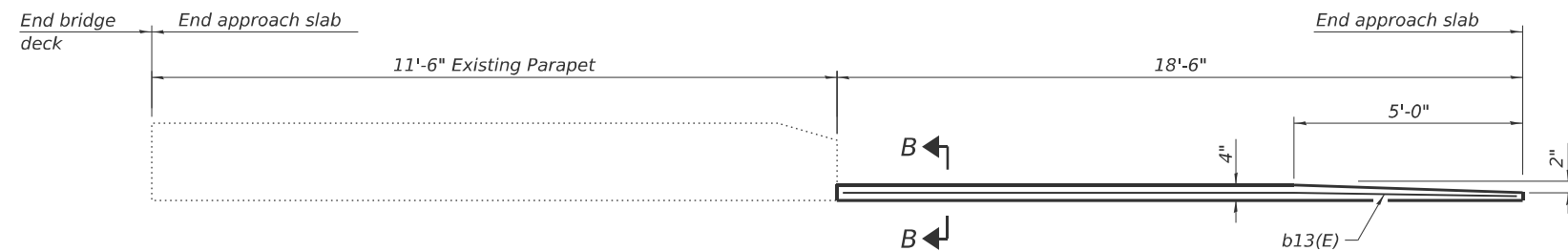
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		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$\$CALE\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

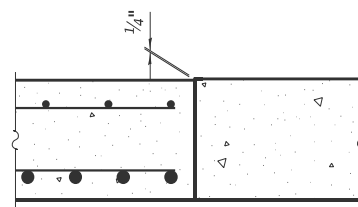
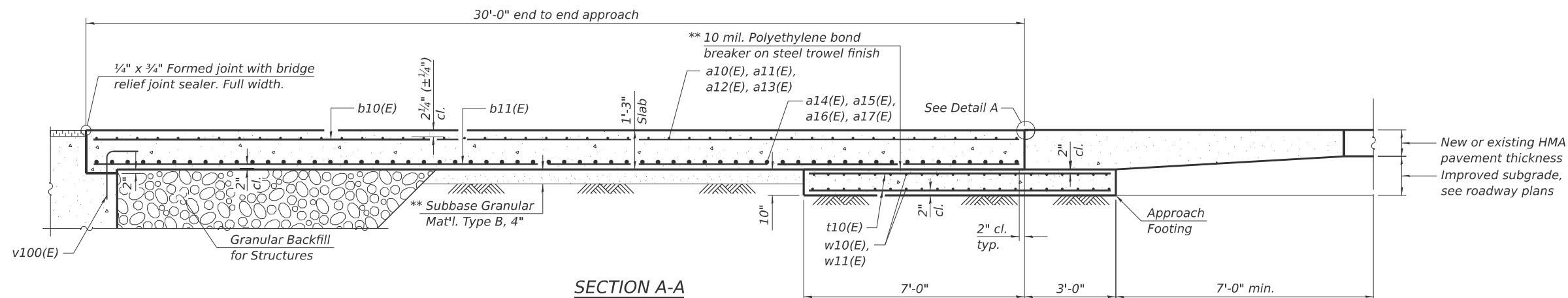
**BRIDGE APPROACH SLAB DEATAILS (1 OF 2)
STRUCTURE NO. 060-0208 & 060-0209**

SHEET 8 OF 18 SHEETS

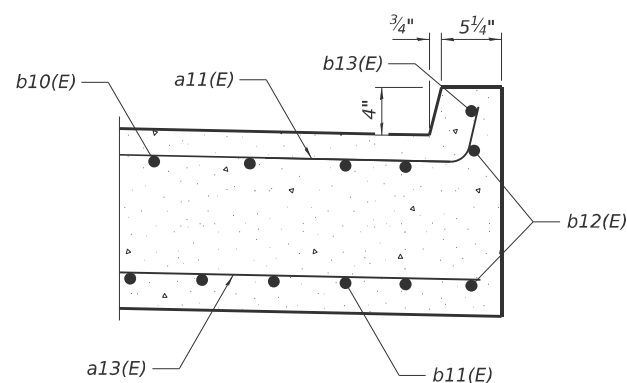
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	529
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET AND CURB



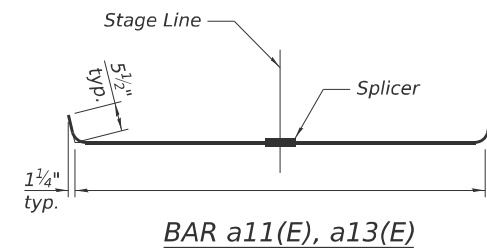
DETAIL A



SECTION B-B

Notes:

- Approach slab shall be paid for as Concrete Superstructure (Approach).
- Approach footing concrete shall be paid for as Concrete Structure.
- The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Superstructure (Approach).
- Cost of removal of the existing Approach and Footing shall be paid as Concrete Removal.
- Cost of additional granular backfill or subbase material that is needed due to disturbing sub base or getting the new Approach and Footing to grade shall be incidental to Concrete Superstructure (Approach).



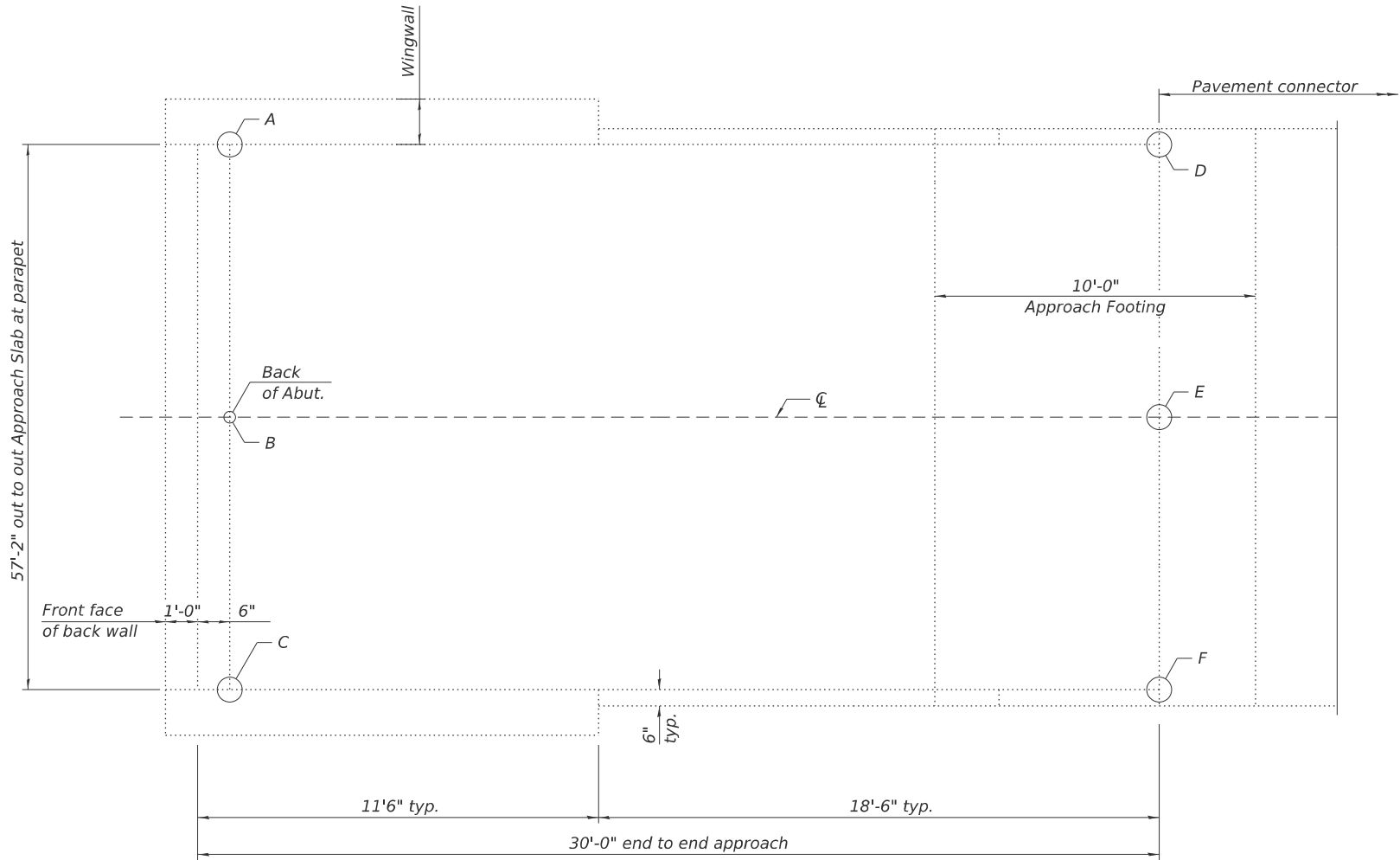
ONE APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	18	#5	29'-5"	————
a11(E)	28	#5	30'-4½"	————
a12(E)	18	#5	27'-5"	————
a13(E)	28	#5	28'-4½"	————
a14(E)	24	#8	29'-5"	————
a15(E)	38	#8	29'-11"	————
a16(E)	24	#8	27'-5"	————
a17(E)	38	#8	27'-11"	————
b10(E)	86	#5	29'-8"	————
b11(E)	138	#9	29'-8"	————
b12(E)	8	#5	18'-4"	————
b13(E)	4	#4	18'-4"	————
t10(E)	118	#4	9'-8"	————
w10(E)	40	#5	29'-11"	————
w11(E)	40	#5	27'-11"	————
Bar Splicers			Each	148
Concrete Superstructure (Approach)			Cu. Yd.	81.8
Reinforcement Bars, Epoxy Coated			Pound	32,250
Concrete Removal			Cu. Yd.	97.1
Concrete Structure			Cu. Yd.	17.7

** Cost included with Concrete Superstructure.

*** Per manufacturer recommendations

MODEL: APPROACH SLAB ELEVATIONS
FILE NAME: pww\jacobs-us-va-pw-04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\Shi060-0208 & 060-0209\060-0208-010-APPROACH SLAB ELEVATIONS



APPROACH SLAB ELEVATION PLAN VIEW

TOP OF SLAB ELEVATIONS
FOR APPROACHES

060-0208 & 0209 West Approach		060-0208 & 0209 East Approach	
Point/ Location	T/Slab	Point/ Location	T/Slab
A -	446.39	A -	445.55
B -	446.83	B -	445.99
C -	446.39	C -	445.55
D -	446.04	D -	445.08
E -	446.49	E -	445.53
F -	446.04	F -	445.08

Notes:
This sheet is for reference only, see civil sheets for overlay installation details at the approach slabs excluding the West Approach of SN 060-0209.



USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$CALE\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

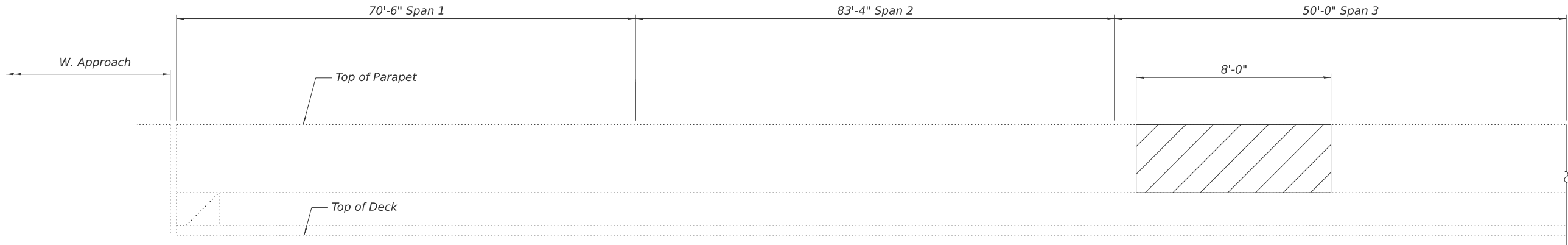
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0208 & 060-0209

SHEET 10 OF 18 SHEETS

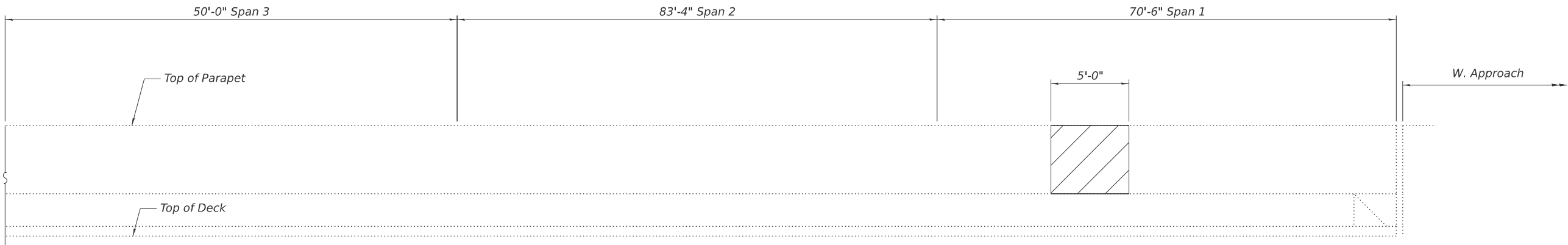
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	531
CONTRACT NO. 76E84				
ILLINOIS		FED. AID PROJECT		

MODEL: 0600209 PARAPET REPAIRS
FILE NAME: pwr/jacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw-04/Documents/D3152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0208 & 060-0209/D876E45-SHT-0600208&0600209-011-PARAPET REPAIRS



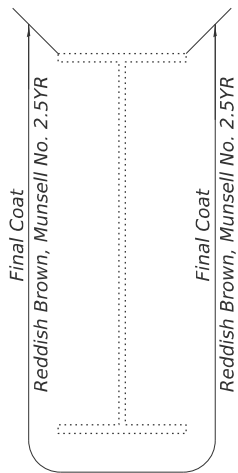
HALF ELEVATION VIEW - NORTH PARAPET

(Looking North)

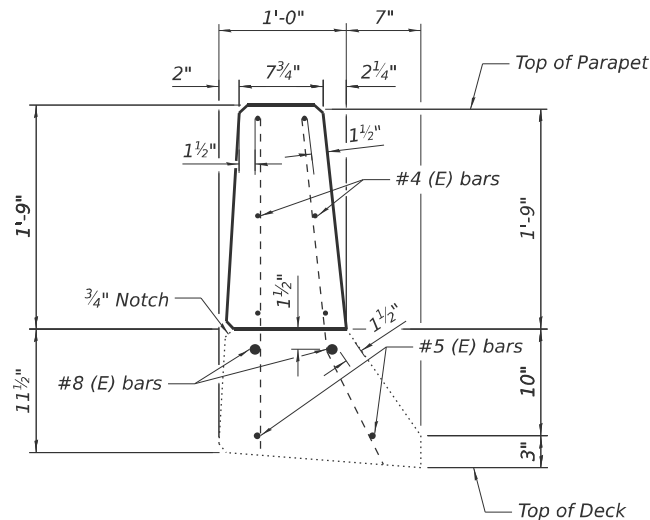


HALF ELEVATION VIEW - SOUTH PARAPET

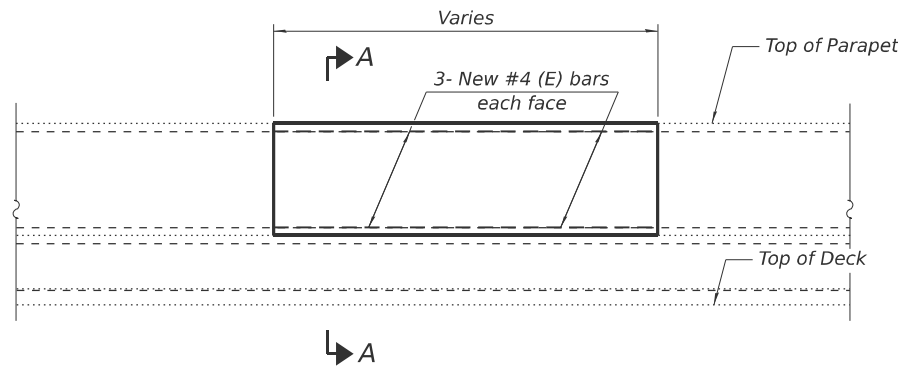
(Looking South)



GIRDER PAINTING
Typical All Girders



SECTION A-A



Notes:
All measurements and locations of the deteriorated concrete are approximate and shall be verified in the field by the contractor.
The areas of deteriorated concrete in the areas shown are to be chipped only to sound concrete prior to installing repairs.
All existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into new construction.
All new horizontal reinforcing steel shall be tied to existing reinforcing prior to concrete installation.
Prior to concrete removal, a 3/4" deep saw cut shall be made along all boundaries of removal areas adjacent to areas to remain in place.

LEGEND

 Concrete Structures

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Pound	60
Concrete Superstructure	Cu. Yd.	1.4
Concrete Removal	Cu. Yd.	1.4



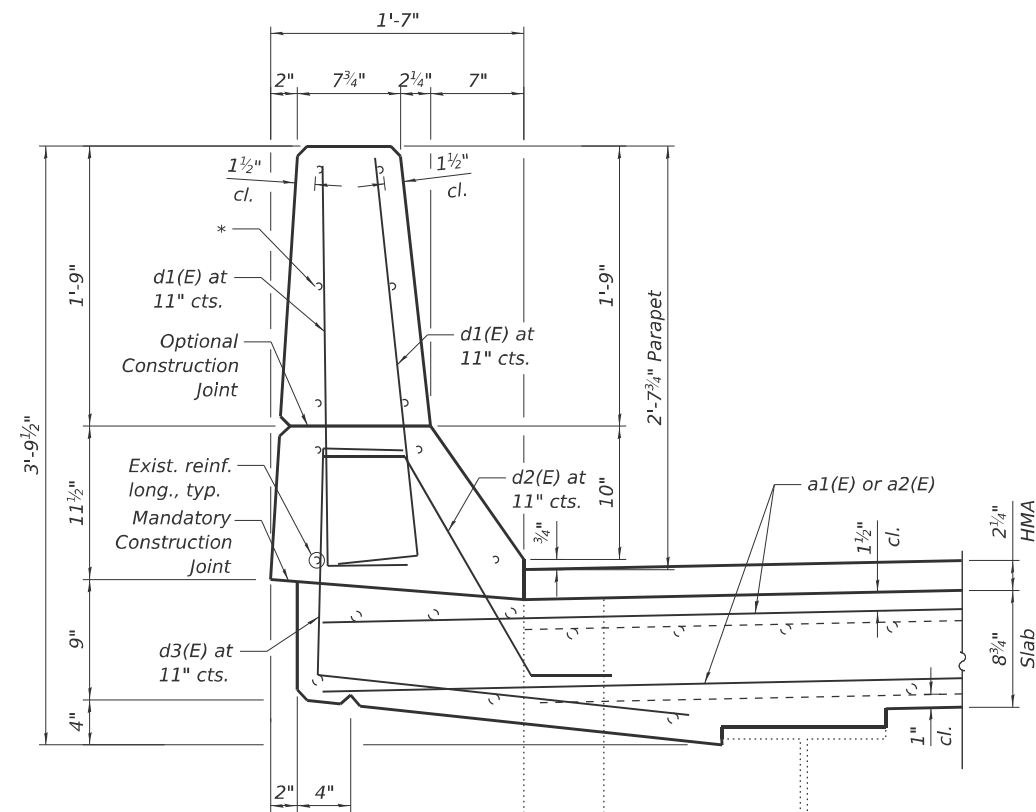
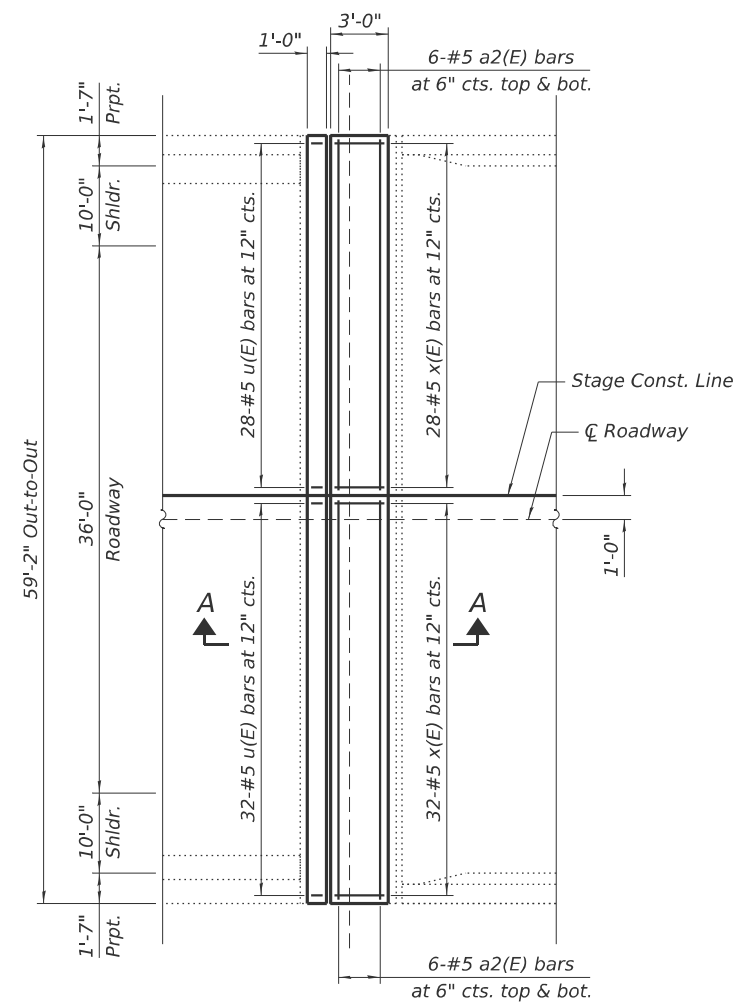
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CHECKED -	L. BENITEZ	REVISED -			
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PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

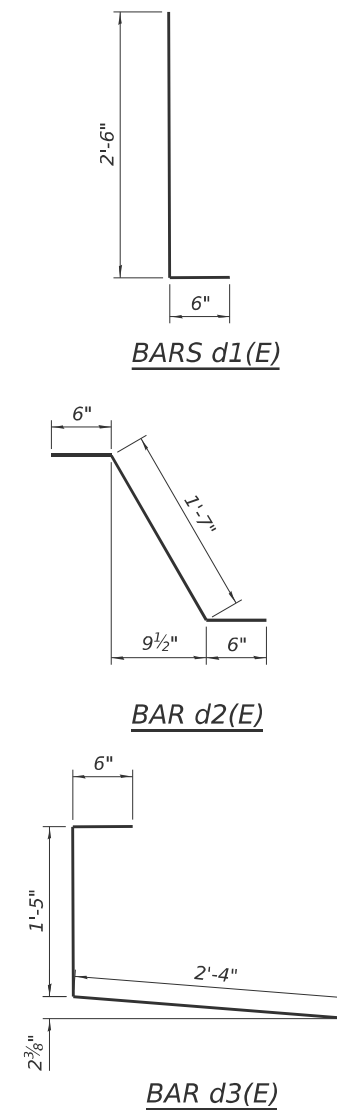
**PARAPET REPAIR DETAILS (SN: 060-0209)
STRUCTURE NO. 060-0208 & 060-0209**

SHEET 11 OF 18 SHEETS

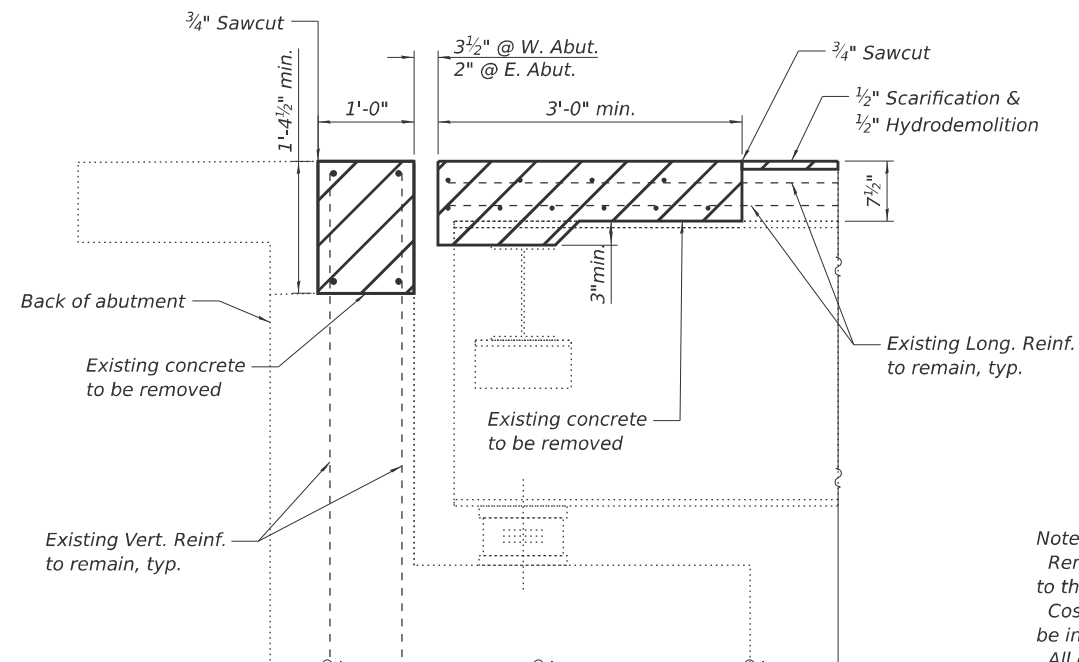
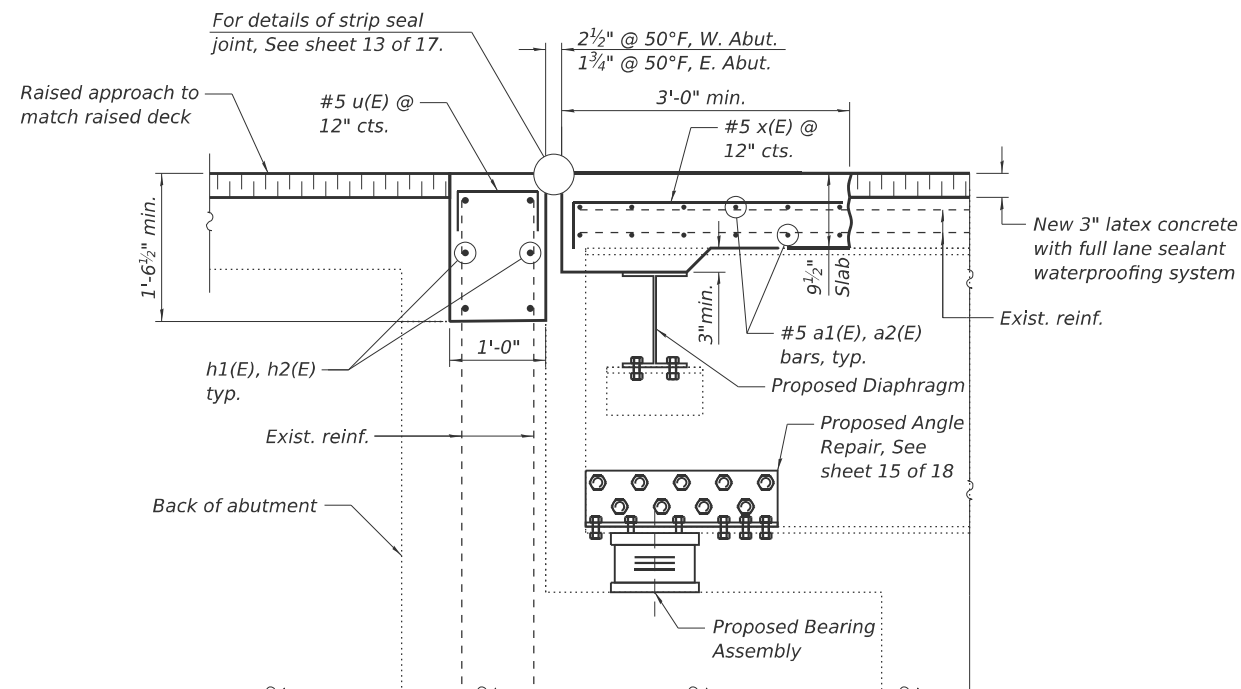
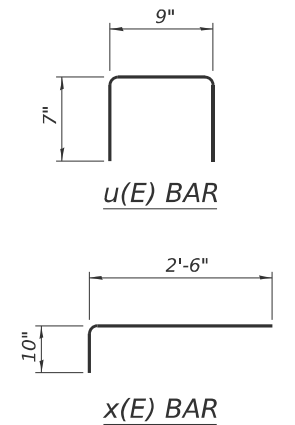
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	532
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



* Existing parapet reinforcement to incorporated into new parapet, typ.

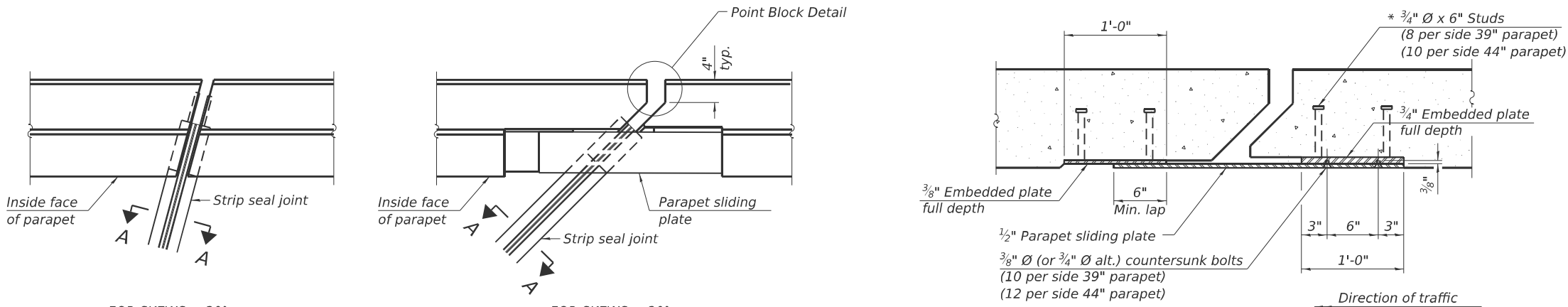


Bar	No.	Size	Length	Shape
a1(E)	48	#5	30'-5"	————
a2(E)	48	#5	28'-5"	————
d1(E)	32	#5	3'-0"	└┘
d2(E)	32	#5	4'-3"	└┘
d3(E)	32	#5	2'-7"	└┘
h1(E)	24	#6	30'-5"	————
h2(E)	24	#6	28'-5"	————
u(E)	240	#5	1'-11"	└┘
x(E)	240	#5	3'-4"	└┘
Concrete Removal			Cu. Yd.	35.6
Concrete Superstructure			Cu. Yd.	41.0
Reinforcement Bars, Epoxy Coated			Pound	6780
Bar Splicers			Each	72



Notes:
Removal of existing expansion joint devices shall be incidental to the "Concrete Removal" Pay item.
Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.
All existing reinforcement in the parapets to remain in place. See Sheet 18 of 18 for Bar Splicers.

MODEL: Preformed Strip Seal Joint
FILE NAME: pw/jacobse-us-vp-pw.bentley.com/jacobse-us-vp-pw.bentley.com/Projects/03152206.02 - ILDOT - I-55 L70 Rehabilitation/30 Project Data/PID/IST/Collins/SN106040208 & 06040209/D876E45-SHT-060208&060209-013-PREFORMED STRIP SEAL JOINT DETAILS



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

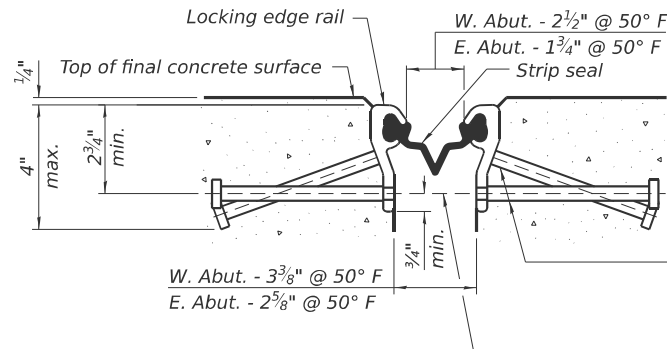
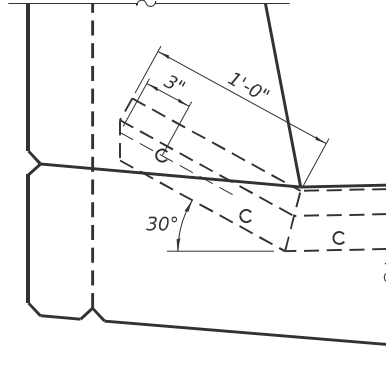
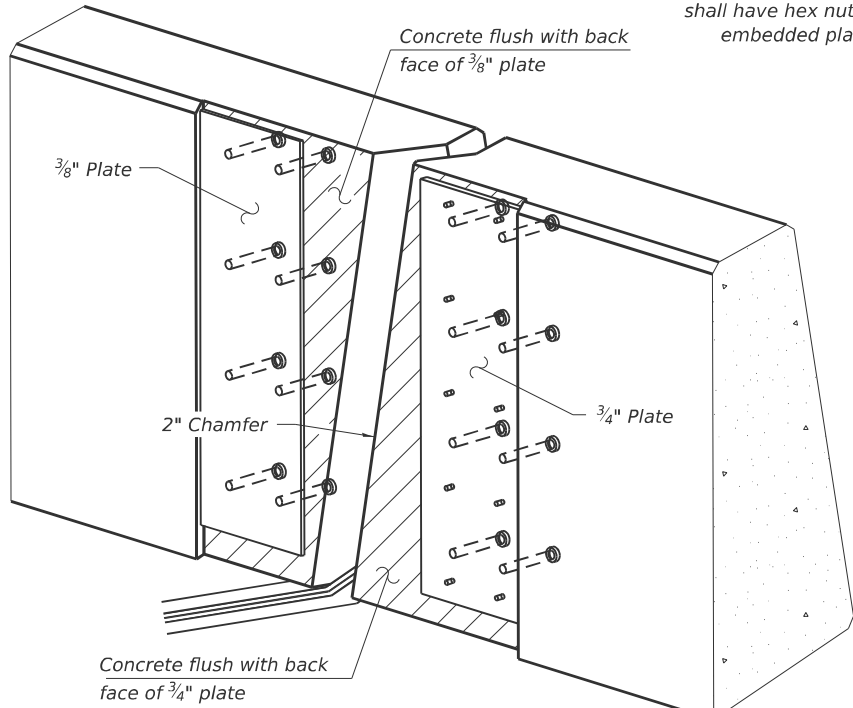
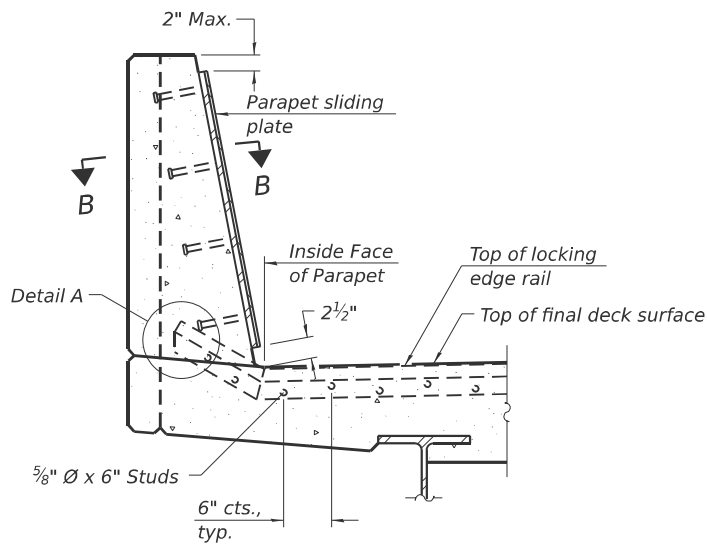
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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.

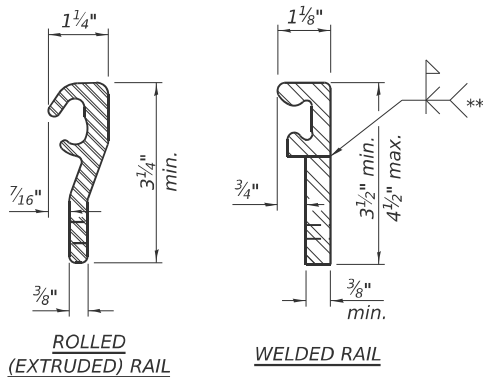
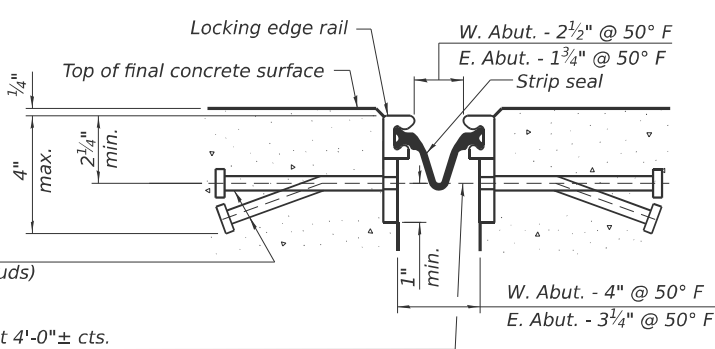


* 5/8" $\varnothing$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

3/8" $\varnothing$ threaded rods in 7/16" $\varnothing$ holes at 4'-0" $\pm$ 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.



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

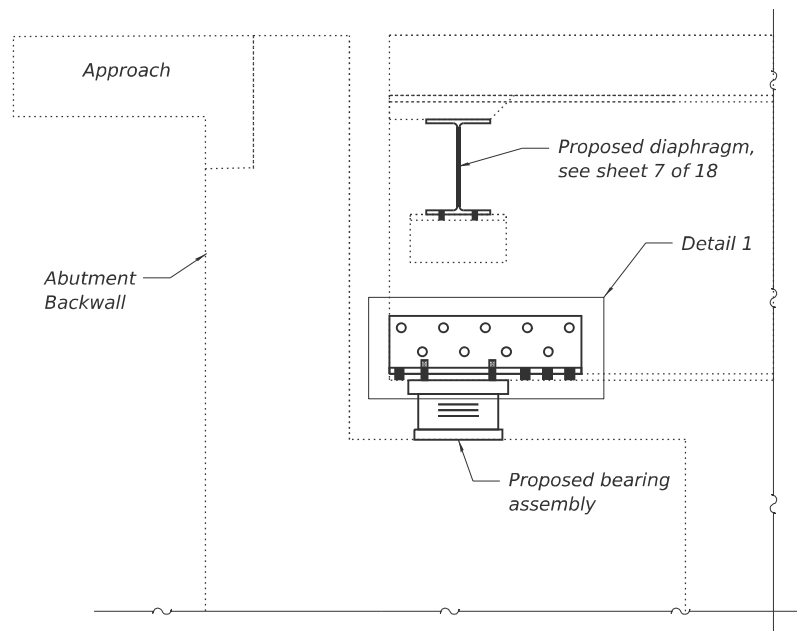
LOCKING EDGE RAIL SPLICE

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

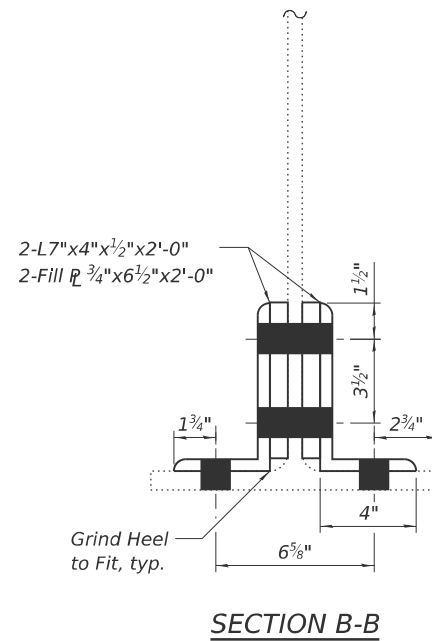
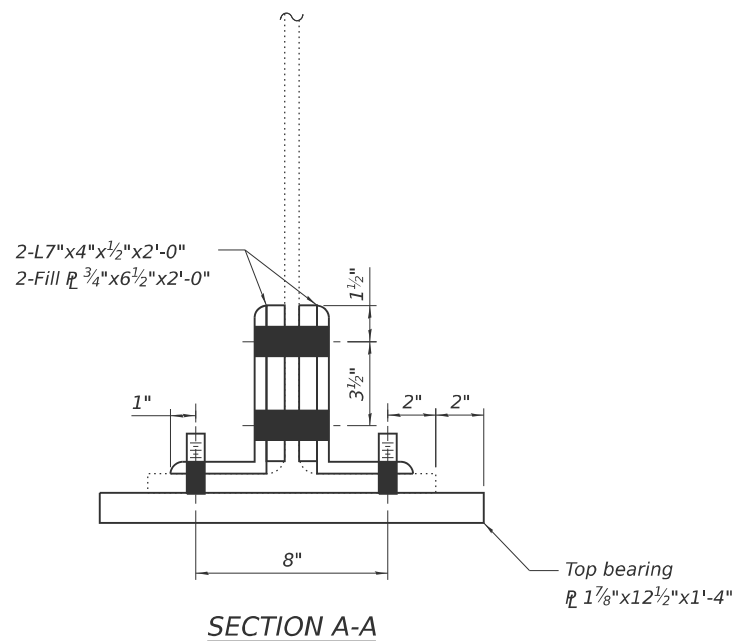
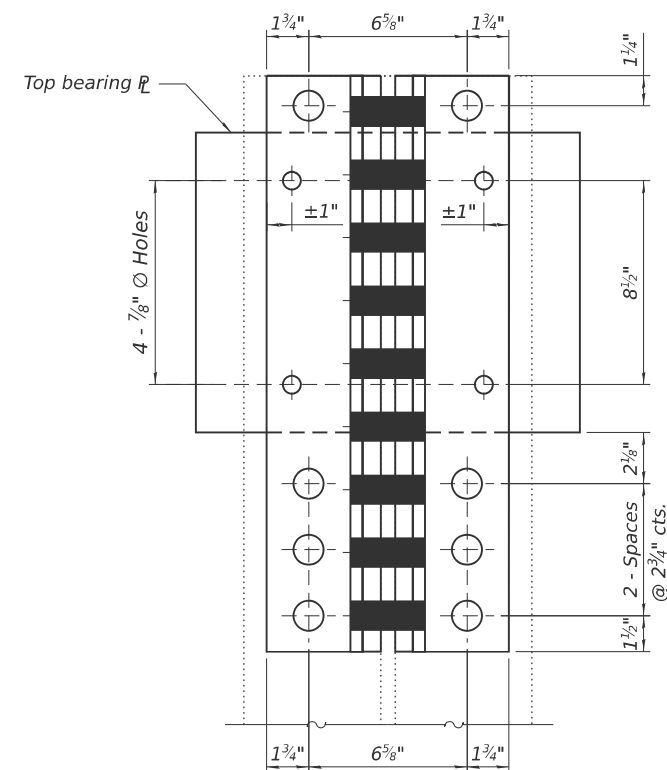
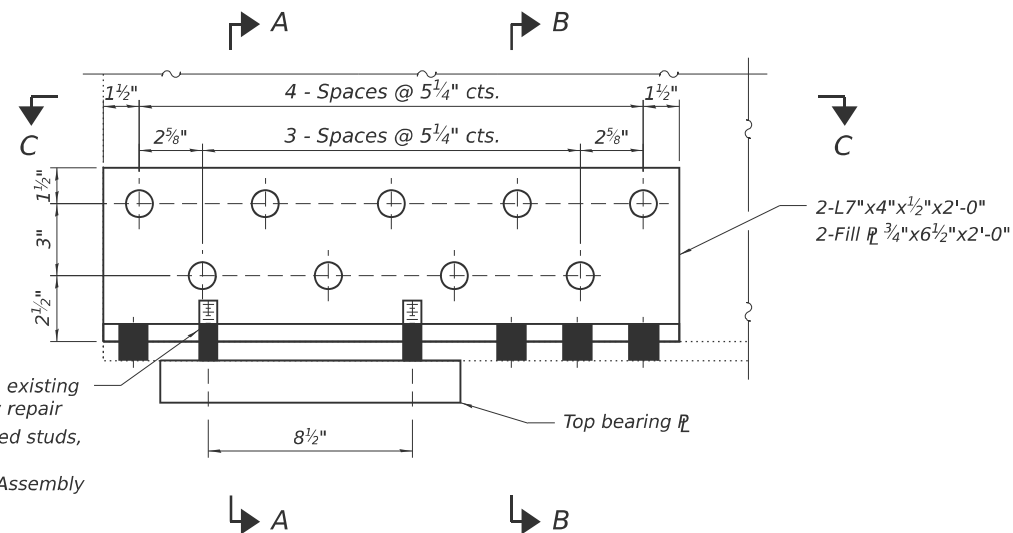
BILL OF MATERIAL

Item	Unit	Total
Preformed joint Strip Seal	Foot	236.8

MODEL: BEAM END ANGLE REPAIR DETAILS
FILE NAME: p:\jacobson-us-vp-pw-04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SH060-0208 & 060-0209\0600208&060209-015-BEAM END ANGLE REPAIR DETAILS



Field drill $\frac{7}{8}$ " $\varnothing$ holes in existing bottom flange and new repair angles for $\frac{3}{4}$ " $\varnothing$ threaded studs, All cost included with "Elastomeric Bearings Assembly Type II."



Notes:

- All new structural steel shall be painted.
- All bolts shall be 1" $\varnothing$ A325 steel bolts in 1 $\frac{1}{8}$ " $\varnothing$ holes unless shown otherwise.
- All holes shall be shop drilled unless shown otherwise.
- Use proposed plates as templates to field drill holes in the existing beams.
- Field drill 1 $\frac{1}{8}$ " $\varnothing$ holes for 1" $\varnothing$ high-strength bolts in existing member. All cost included under "Furnishing and Erecting Structural Steel" pay item.
- Surface preparation of existing steel in contact with new steel members shall be done according to GBSP 21 cleaning and painting contact surface areas of existing steel structures.
- Contractor can submit for approval equivalent bent plates in lieu of the proposed angles.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pounds	4442

COLLINS
ENGINEERS
INC.

USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
CHECKED -	L. BENITEZ	REVISED -			
PLOT SCALE =	\$\$\$CALES\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

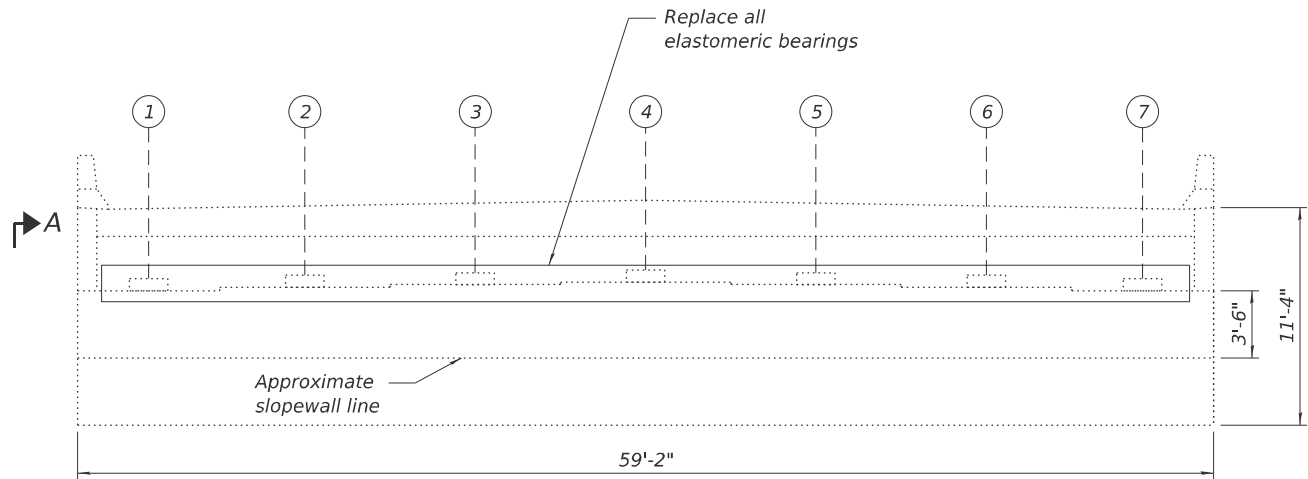
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END ANGLE REPAIRS
STRUCTURE NO. 060-0208 & 060-0209

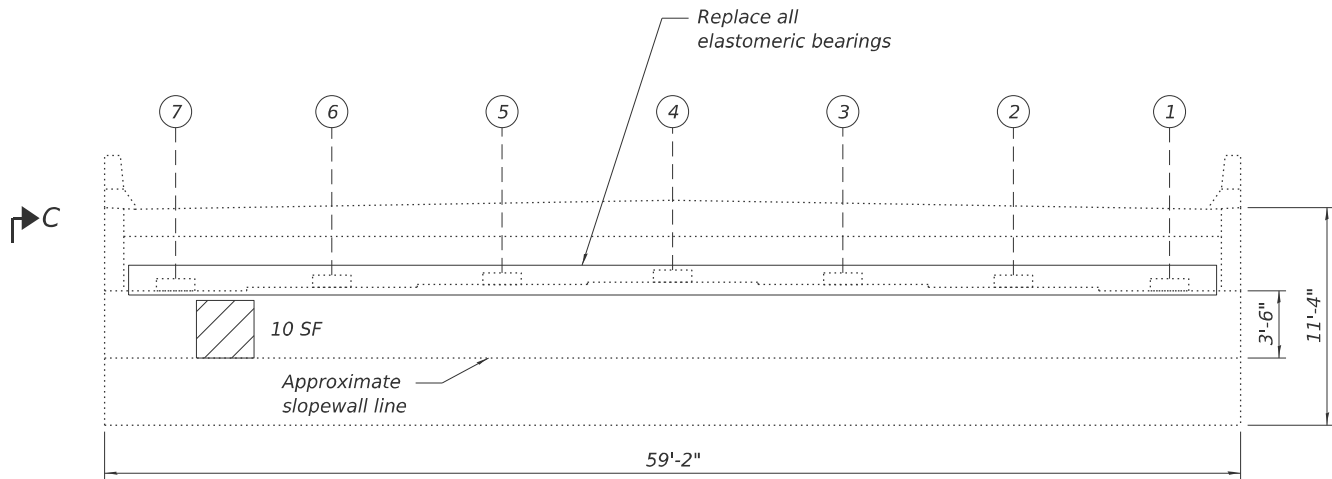
SHEET 15 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	536
				CONTRACT NO. 76E84
				ILLINOIS FED. AID PROJECT

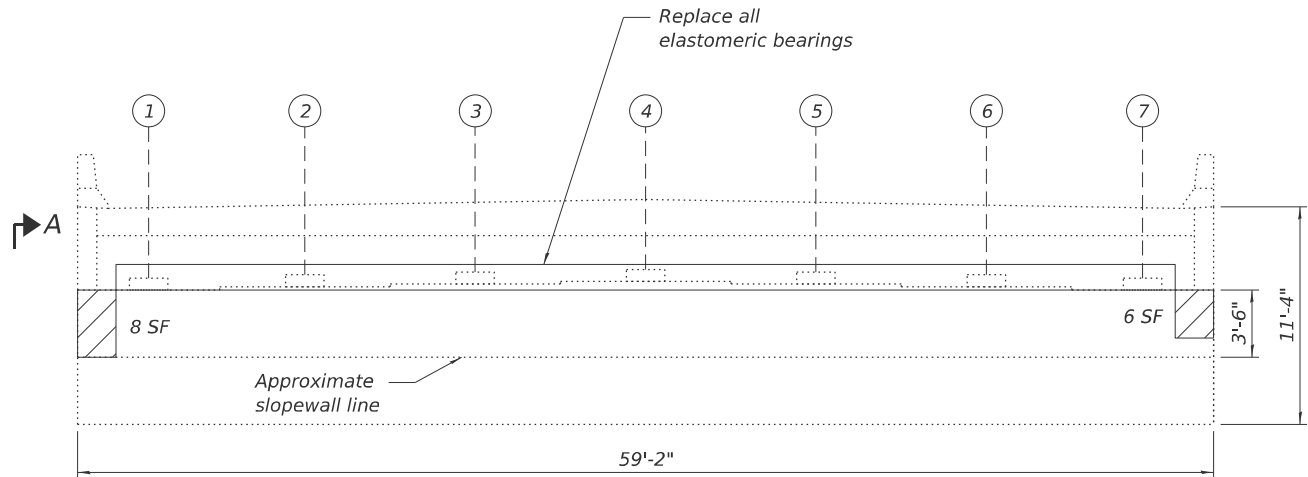
MODEL: EAST AND WEST ABUTMENT REPAIRS
FILE NAME: p:\jacobson-us-vp-pw\beniley.com\jacobson-us-vp-pw\04\Documents\03152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\FID\IST\Collins\SN060-0208 & 060-0209\060-0208-016-EAST AND WEST ABUTMENT REPAIRS



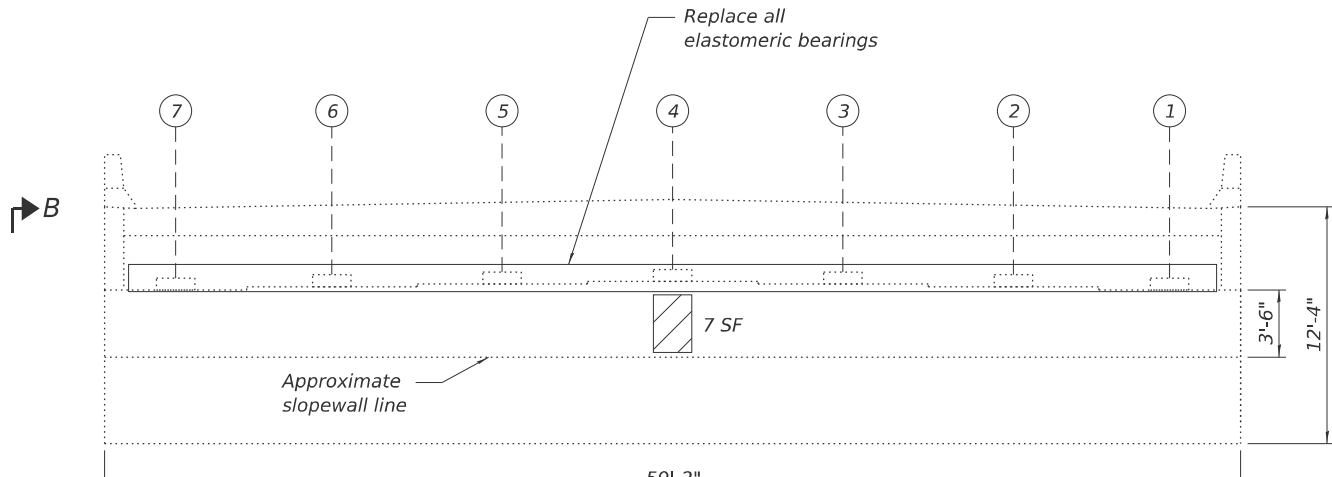
WEST ABUTMENT ELEVATION SN 060-0208
(LOOKING WEST)



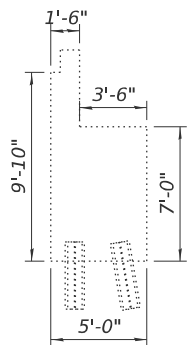
EAST ABUTMENT ELEVATION SN 060-0208
(LOOKING EAST)



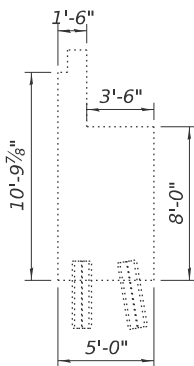
WEST ABUTMENT ELEVATION SN 060-0209
(LOOKING WEST)



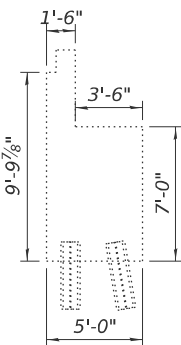
EAST ABUTMENT ELEVATION SN 060-0209
(LOOKING EAST)



SECTION A-A



SECTION B-B



SECTION C-C

LEGEND

- SF Square Feet
- Structural repair of concrete (depth equal to or less than 5 inches)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	31
Concrete Sealer	SQ FT	2834

Notes:

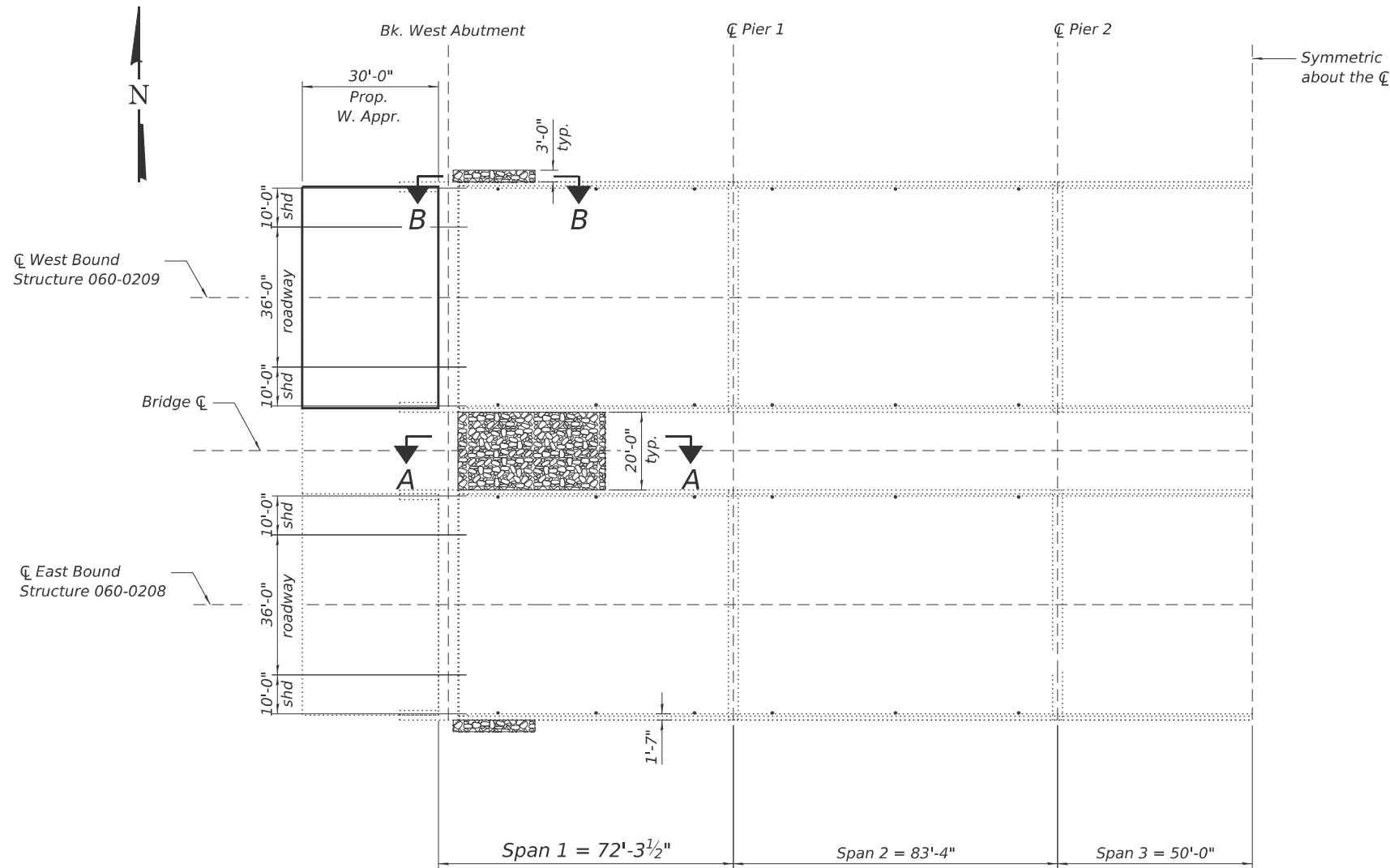
All measurements and locations of concrete repairs are approximate and shall be verified in the field by the contractor.

See sheet 14 of 17 for elastomeric bearing and bearing anchor rod replacement details.

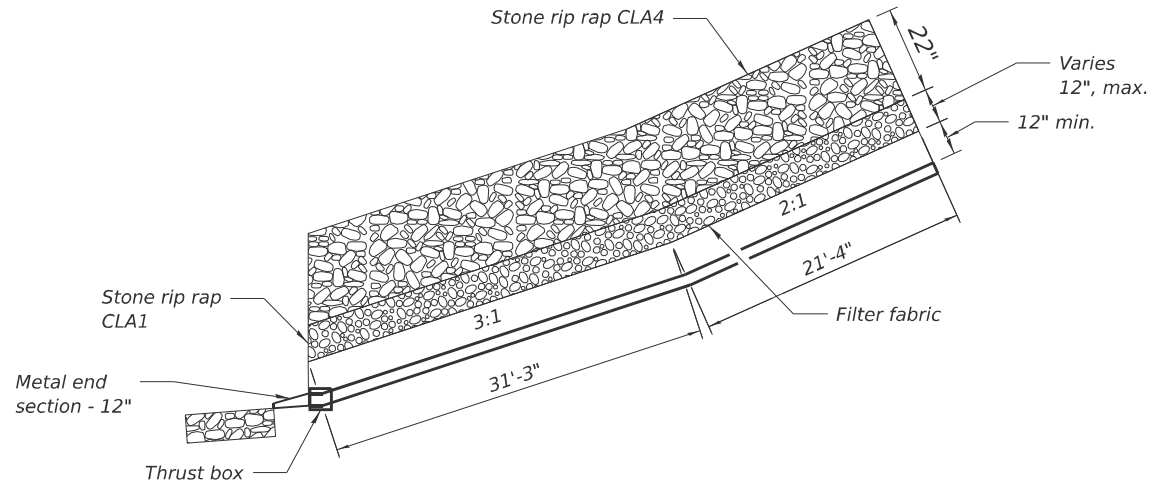
Structural repair of concrete (depth equal to or less than 5 in.) quantity is estimated based on the inspection report dated March 2023. The engineer shall mark removal areas.

Concrete Sealer shall be applied to the vertical and horizontal faces of the exposed abutment cap below the strip seal joints.

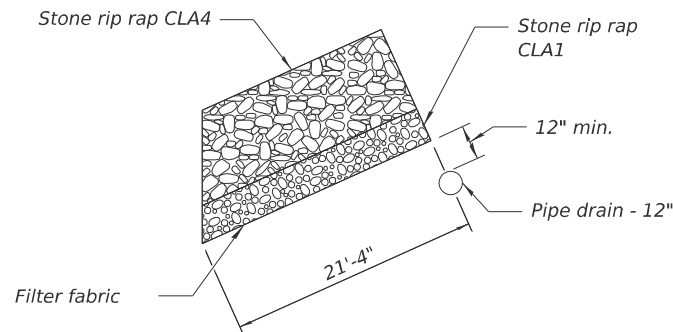
MODEL: RIP RAP INSTALLATION
FILE NAME: pw://jacobs-us-vp-pw.bentley.com/jacobs-us-vp-pw.bentley.com/projects/03152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/IST/Collins/SN060-0208 & 060-0209/D876E45-SHT-0600208&060209-17-RIPRAP INSTALLATION



HALF PLAN VIEW
SN 060-0208 & 060-0209
West Abutment shown E. Abutment similar



SECTION A-A



SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Rip Rap, Class A1	TONS	48
Stone Rip Rap, Class A4	SQ. YD.	248.4
Filter Fabric	SQ. YD.	248.4



USER NAME =	credzic	DESIGNED -	C. MORROW	REVISED -	
		CHECKED -	L. BENITEZ	REVISED -	
PLOT SCALE =	\$\$CALES\$	DRAWN -	C. MORROW	REVISED -	
PLOT DATE =	11/24/2025	CHECKED -	2025/10/03	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIPRAP INSTALLATION
STRUCTURE NO. 060-0208 & 060-0209

SHEET 17 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	538
				CONTRACT NO. 76E84
				ILLINOIS FED. AID PROJECT

Benchmark: BM 202 - Cut square on top of a highway sign concrete base of the south leg. "For Attractions" EXIT 6, just East of the San Prairie Lane Bridge over I-55/70. ELEV. = 413.32

Existing Structure: Structure Number 060-2541 originally built in 1959. The Structure is Cast-in-Place 5 feet by 6 feet reinforced concrete box culvert.

Traffic Control: Traffic is to be maintained with day time lane closure..

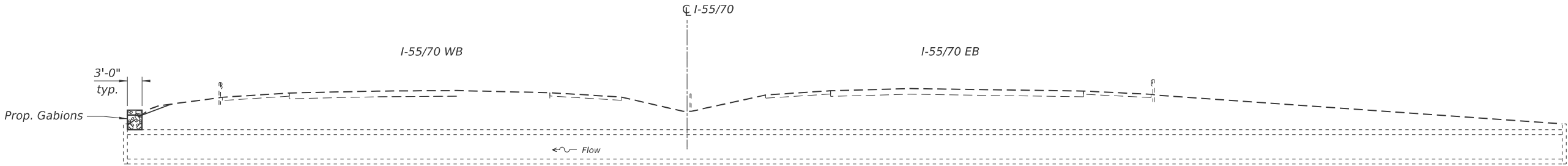
Salvage: None

HIGHWAY CLASSIFICATION

FAI I-55/70
Functional Class: Interstate
ADTT: 51700 (2021)
Design Speed: 70 m.p.h.
Posted Speed: 70 m.p.h.

SCOPE OF WORK

- 1) Clear and grub foreslope and area adjacent to box culvert end section.
- 2) Excavate behind wingwall and headwall.
- 3) Place filter fabric.
- 4) Install gabion baskets.
- 5) Shape and grade foreslope.



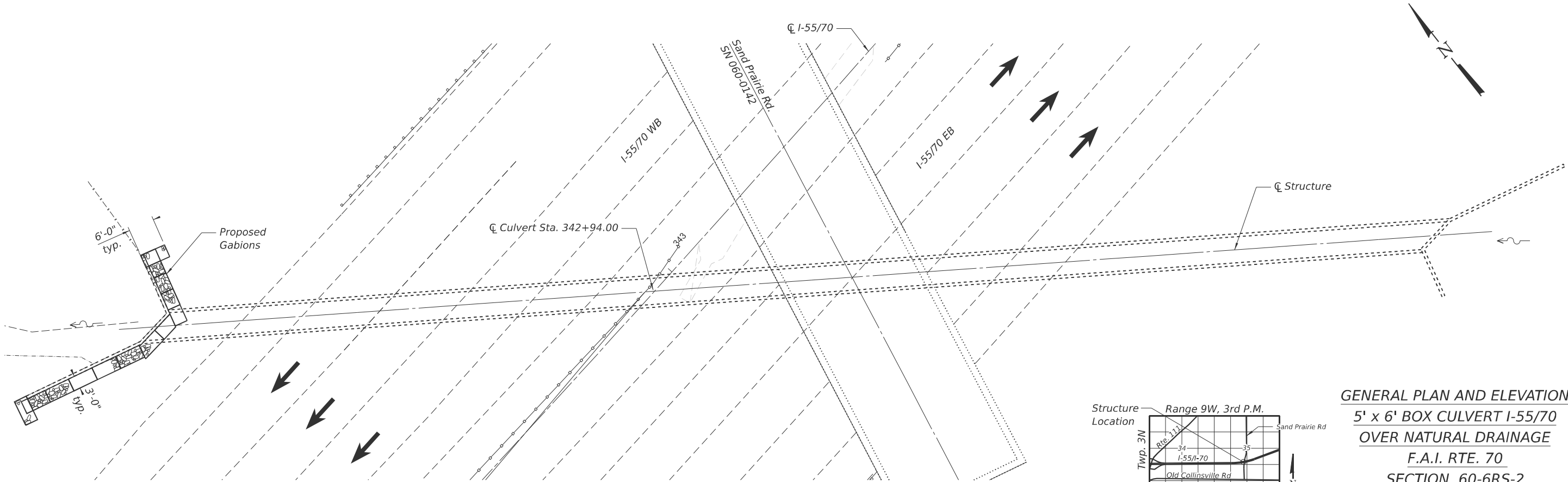
Signed:
Stephen E. Alsbury, S.E. IL Lic. No. 081-5261
Expires: 11/30/2026

Date: September 26, 2025

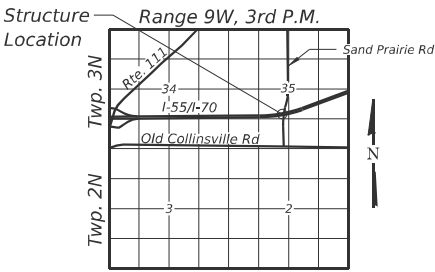
ELEVATION
(Looking East)

INDEX OF SHEETS

- 1) General Plan and Elevation
- 2) General Notes, Bill of Materials and Gabion Details



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

5' x 6' BOX CULVERT I-55/70
OVER NATURAL DRAINAGE
F.A.I. RTE. 70
SECTION 60-6RS-2
MADISON COUNTY
STATION 342+94.00
STRUCTURE NO. 060-2541



USER NAME = mjjones	DESIGNED - SEA	REVISED -
DRAWN - MBJ	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 060-2541

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

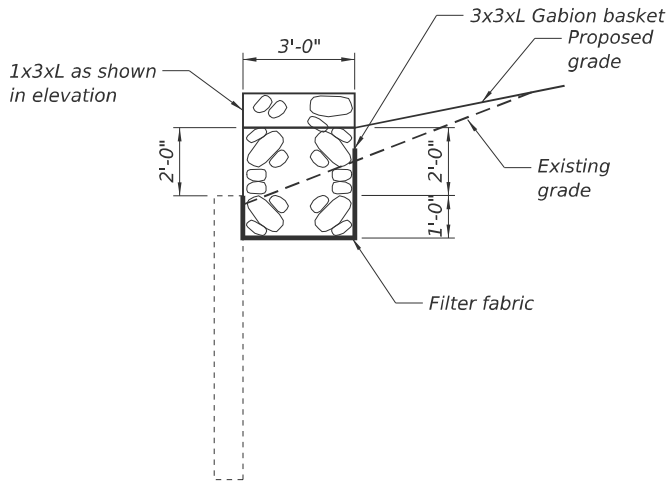
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	540
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

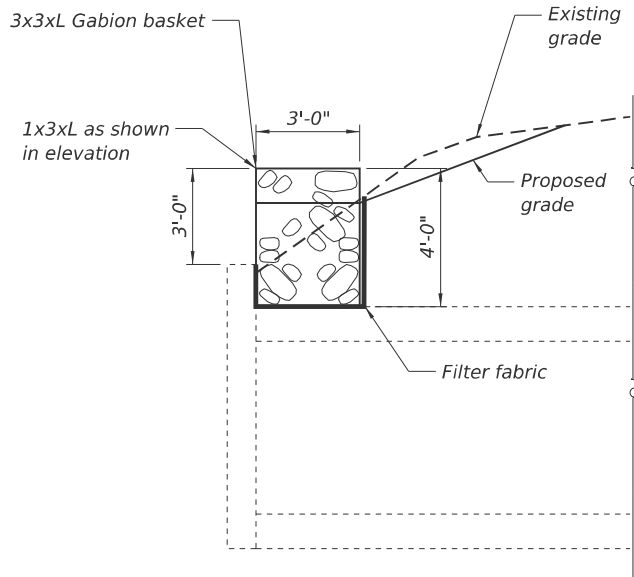
1.

Plan dimensions and details relative to existing structure have been taken from existing plans are subject to nominal construction variations.
The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2.

Trees 3" or greater in diameter or breast height will not be cleared from April 1 through September 30.



SECTION B-B



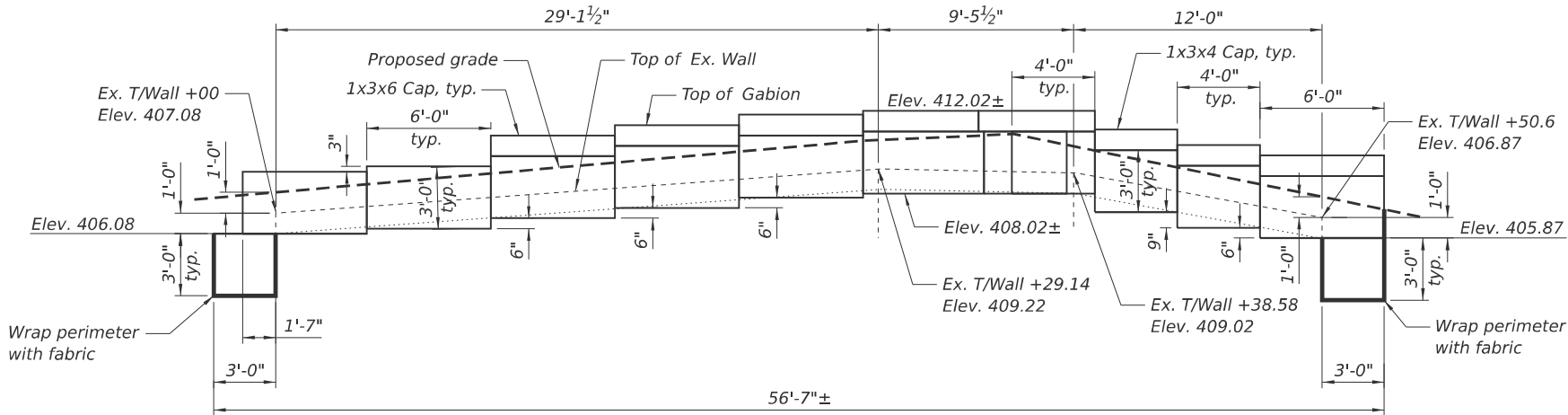
SECTION A-A

GABIONS

- 3'X3'X6' Long = 9 Each (1 Modified)
- 3'X3'X4' Long = 4 Each
- 1'X3'X6' Long = 5 Each (1 Modified)
- 1'X3'X4' Long = 4 Each

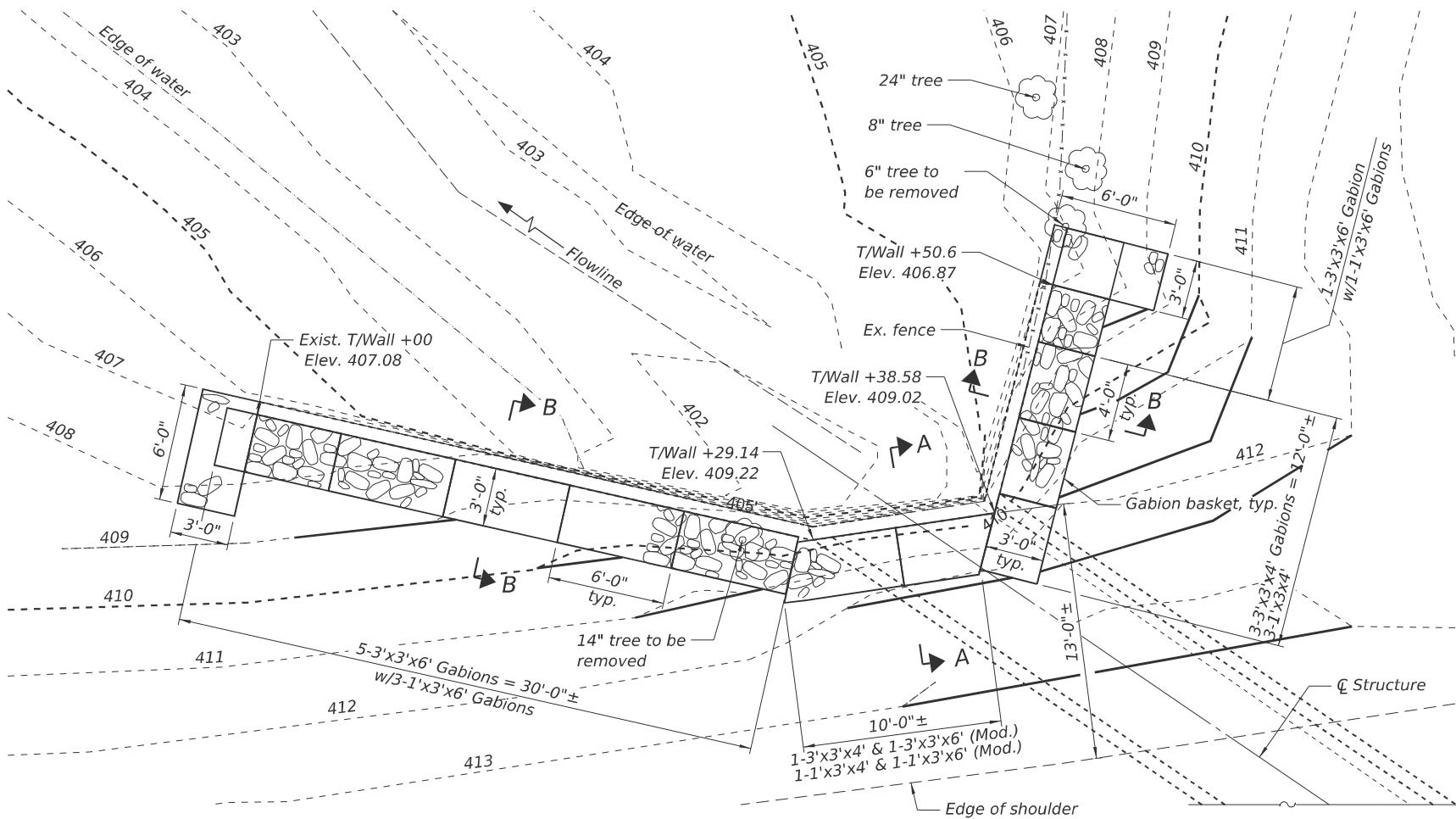
TOTAL BILL OF MATERIAL

Item	Unit	Total
Tree Removal (6 to 15 Units Diameter)	Unit	20
Filter Fabric	Sq. Yd.	66
Gabions	Cu. Yd.	29
Structure Excavation	Cu. Yd.	42



ELEVATION

(Unfolded view along back of wall)



PLAN

MODEL: S:\MODEL\NAMES
FILE NAME: c:\w\jacobs-us-va-pw\benley.com\jacobs-us-va-pw\Rehabilitation30 Project Data\PD\ST\ABNA\SHU060254-1-002-GENOTES.dgn



USER NAME = m.jones	DESIGNED - SEA	REVISED -
	DRAWN - MBJ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 12/3/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, TOTAL B.O.M. AND GABION DETAILS
STRUCTURE NO. 060-2541

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	541
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

Benchmark: Aluminum Disk in concrete swale (top of paved ditch) in median of Ramp from I-55/70 NB to IL 203 SB. ELEV. = 424.55'

Existing Structure: Structure Number 082-0024 originally built in 1960 under IDOT Contract I-70-1(24)2. The Structure is 457'-8¹/₄" long and consist of a 6-Span, WF beam superstructure supported by concrete piers on creosote timber piles and concrete pile bent abutments. In 1999 the bridge was rehabilitated under contract ACBHI-70-1 and the scope of work included removing and replacing the existing superstructure, widening abutments and modifying wingwall and backwall, minor repairs to piers and raising pier caps, removing and replacing bearings with seismic isolation bearings, and removing and replacing north concrete slopewall and a portion of the south concrete slopewall above pier 1. In 2000 the superstructure was repaired under contract 82-5HBR-HDF-2 and the scope of work included removing and replacing damaged sections of parapets. The structure is 461'-7³/₈" from back-to-back abutments with the substructure units on variable skew. The clear width is 35'-5" between curbs and the overall width of the bridge is 38'-8".

Traffic Control: Traffic is to be maintained using stage construction.

Salvage: No salvage of bridge components.

SCOPE OF WORK

- 1) Remove and replace joints at abutments..
- 2) Substructure concrete repairs. Pier 3, 4 & 5 Columns.
- 3) Replace north approach slab.
- 4) Clean deck drains.

EX. CURVE DATA

PI STA. = 105+64.45
Δ = 60°39'07" (LT)
D = 07°09'43"
R = 800.00'
T = 467.95'
L = 846.86'
E = 126.82'
SE = 7.1%

Note: I = Existing Isolation Bearings

ELEVATION



Signed:
Stephen E. Alsbury, S.E. IL. Lic. No. 081-5261
Expires: 11/30/2026

Date: October 31, 2025

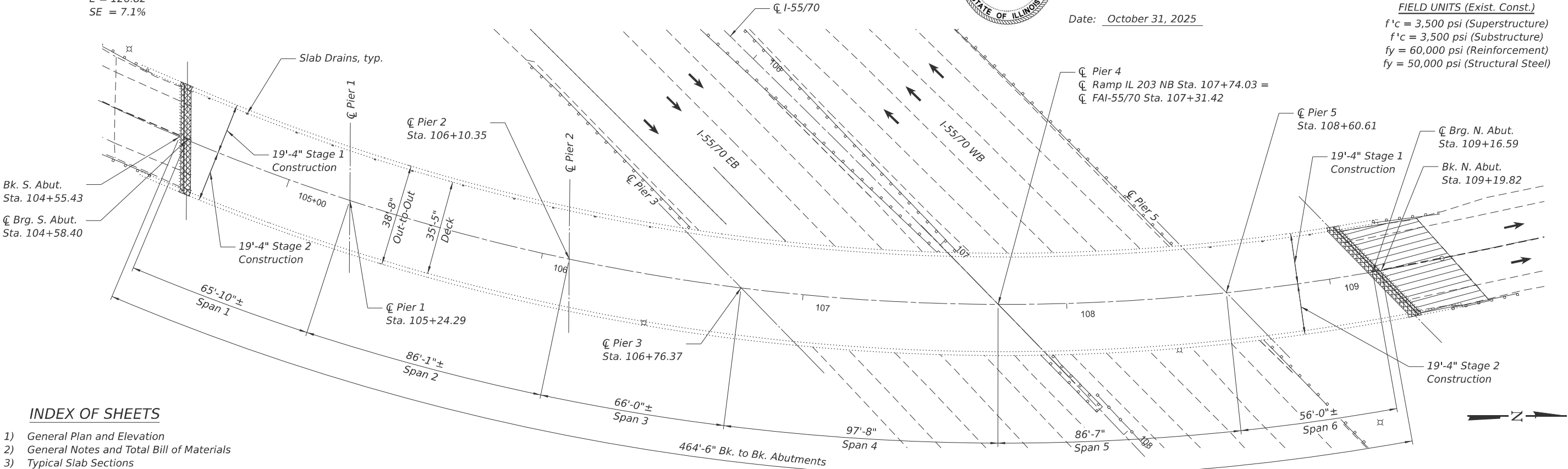
DESIGN STRESSES

FIELD UNITS (New Const.)

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

FIELD UNITS (Exist. Const.)

f'c = 3,500 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural Steel)



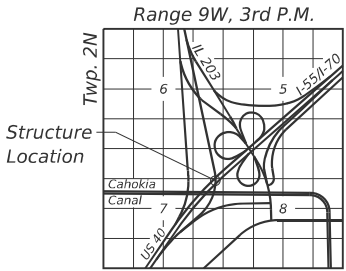
INDEX OF SHEETS

- 1) General Plan and Elevation
- 2) General Notes and Total Bill of Materials
- 3) Typical Slab Sections
- 4) Stage 1 Typical Sections
- 5) Stage 2 Typical Sections
- 6) Temporary Concrete Barrier
- 7) Expansion Joint Removal
- 8) Expansion Joint Repair - South Abutment
- 9) Expansion Joint Repair - North Abutment
- 10) Reinforcement Details
- 11) Preformed Joint Strip Seal
- 12) Bridge Approach Slab Details 01
- 13) Bridge Approach Slab Details 02
- 14) Bar Splicers
- 15) Substructure Repair 01
- 16) Substructure Repair 02

LEGEND

- Joint Replacement
- Approach Slab Replacement

PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RAMP TO IL 203 NB OVER DRAINAGE

CANAL & I-55 / I-70

F.A.I. RTE. 70

SECTION 82-(5,6)RS-2

ST. CLAIR COUNTY

STATION 107+74.03

STRUCTURE NO. 082-0024



USER NAME = m.jones	DESIGNED - SEA	REVISED -
DRAWN - MBJ	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	542
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete(SSPC – SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement bars extending into the removal area shall be cleaned, straighened and incorporated into the new construction. Cost included with Concrete Removal. Any reinforcement bars that are damaged during concrete removal shall replaced with an approved bar splicer or anchorage system at the contractors expense..

Joint openings shall be adjusted according to Article 520.04 of the Standard specifications, when the deck is poured at ambient temperature other than 50°.

Concrete sealer shall be applied to the designated areas of the South and North abutments. The concrete sealer shall be a "Film Forming" type for horizontal surfaces.

No field welding is permittted except as specified in the contract documents.

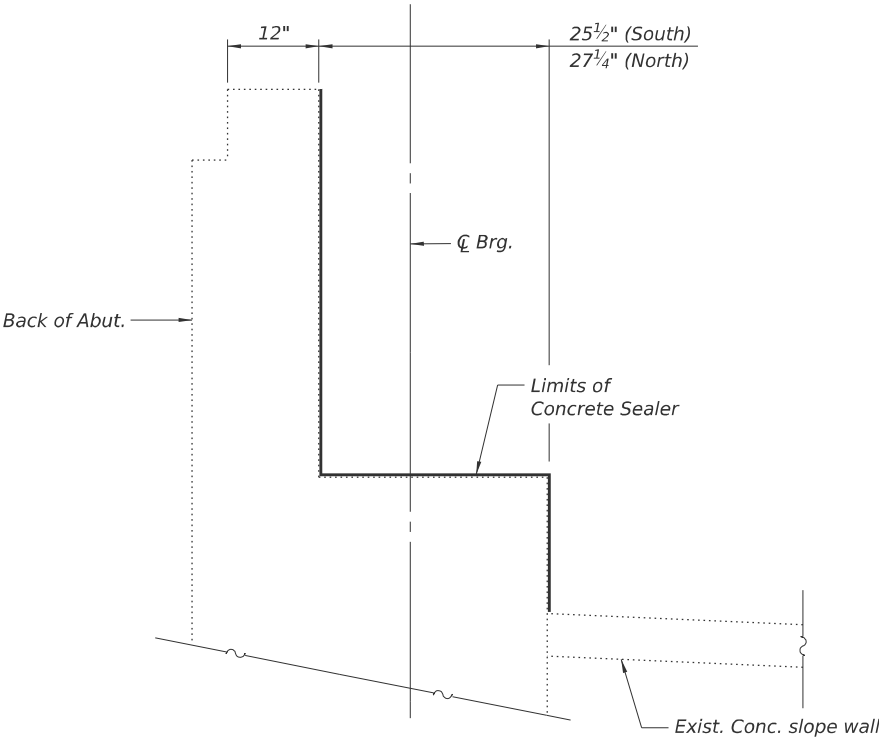
The deck surface shall have its final finish tined accordingto Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Structures.

All Structural Steel shall conform to AASHTO Classificatin M-270 Gr 36 unless otherwise noted.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	13.3
Concrete Structures	Cu. Yd.	13.4
Concrete Superstructure	Cu. Yd.	13.3
* Protective Coat	Sq. Yd.	2360
Concrete Superstructure (Approach Slab)	Cu. Yd.	50.9
Reinforcement Bars, Epoxy Coated	Pound	23560
Bar Splicers	Each	173
Preformed Joint Strip Seal	Foot	89
Concrete Sealer	Sq. Ft.	550
Floor Drains to be Cleaned	Each	14
Approach Slab Removal	Sq. Yd.	120
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	189

* Protective Coat shall be applied to top and front face of all parapets and the deck.



CONCRETE SEALER TYPICAL

MODEL: \$MODELNAME\$ FILE NAME: pwr/jacobs-us-va-pw.bentley.com/jacobs-us-va-pw Documents/D3152206.02 - ILDOT - I-55 I-70 Rehabilitation/30 Project Data/PID/ST/ABNA/SH082002-4-002-GENOTES.dgn



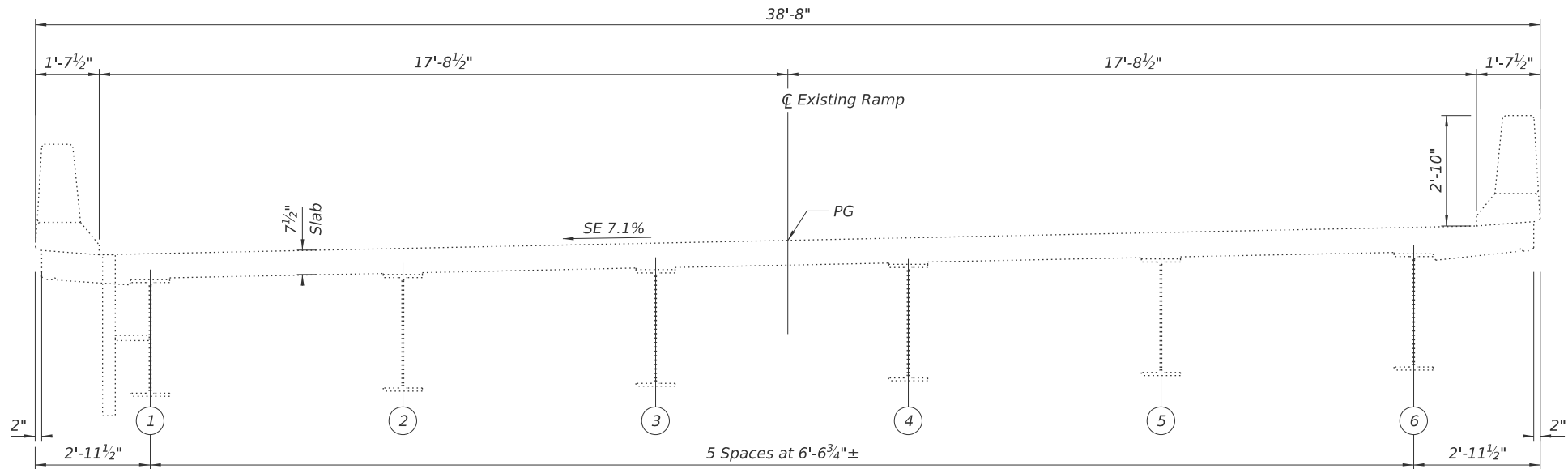
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	DRAWN - MBJ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

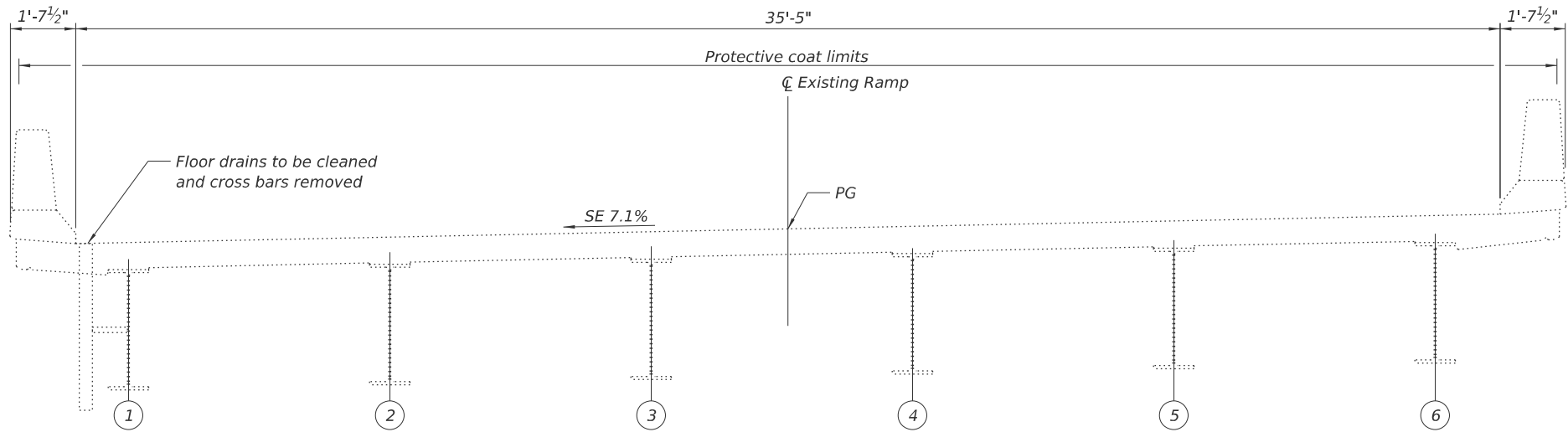
GENERAL NOTES AND TOTAL BILL OF MATERIALS
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 2 OF 16 SHEETS STA. TO STA.

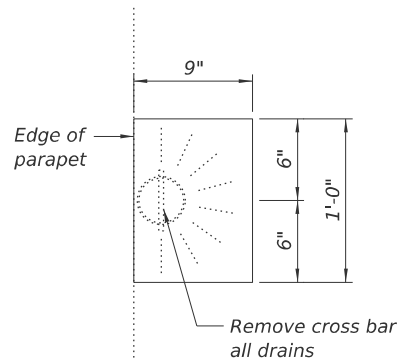
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	543
CONTRACT NO. 76E84				
ILLINOIS			FED. AID PROJECT	



EXISTING TYPICAL SLAB SECTION
(Looking North - Upstation)



PROPOSED TYPICAL SLAB SECTION
(Looking North - Upstation)



DRAIN TOP PLAN

MODEL: \$MODELNAME\$
FILE NAME: p:\w\jacobs-us-va-pw.bentley.com\jacobs-us-va-pw-44\Documents\3152206.02 - ILDOT - L55 I-70 Rehabilitation\30 Project Data\PD\ST\ABNA\SH082002-4-003-TYPSECTION.dgn



USER NAME	= m.jones	DESIGNED	- SEA	REVISED	-
DRAWN	- MBJ	CHECKED	- SEA	REVISED	-
PLOT SCALE	= \$SCALE\$	DATE	- 2025/10/03	REVISED	-
PLOT DATE	= 11/26/2025				

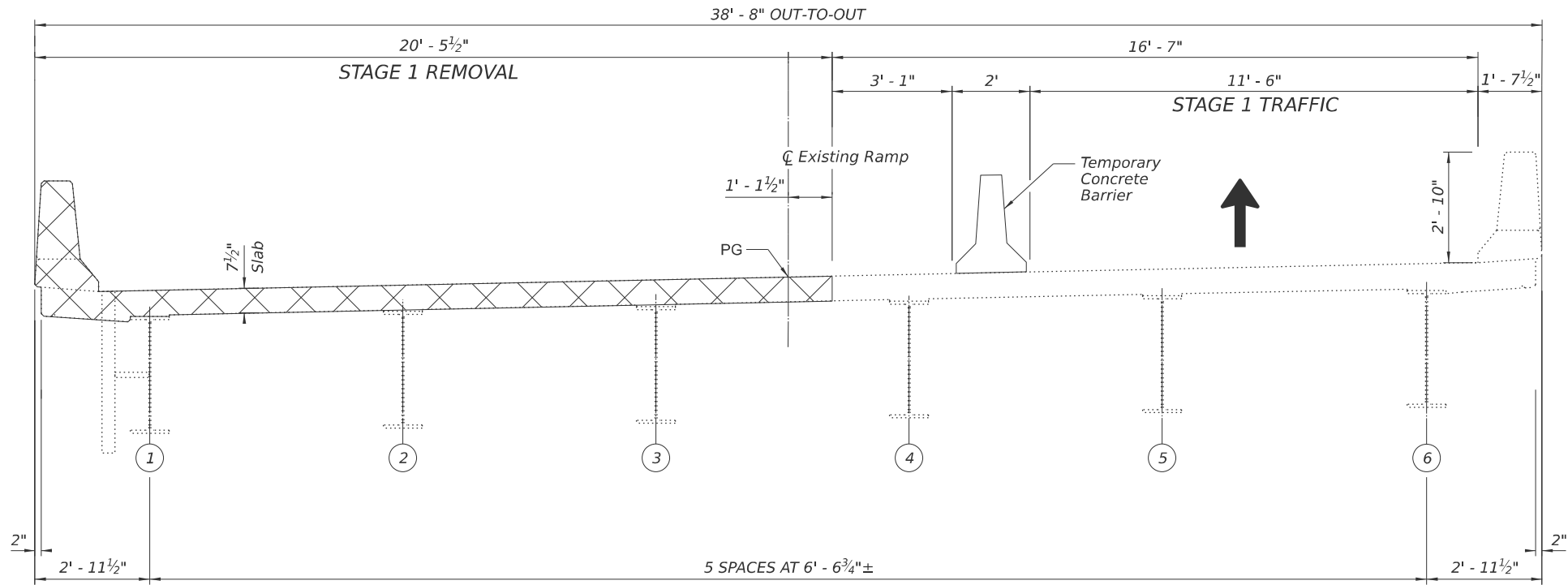
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SLAB SECTIONS
STRUCTURE NO. 082-0024

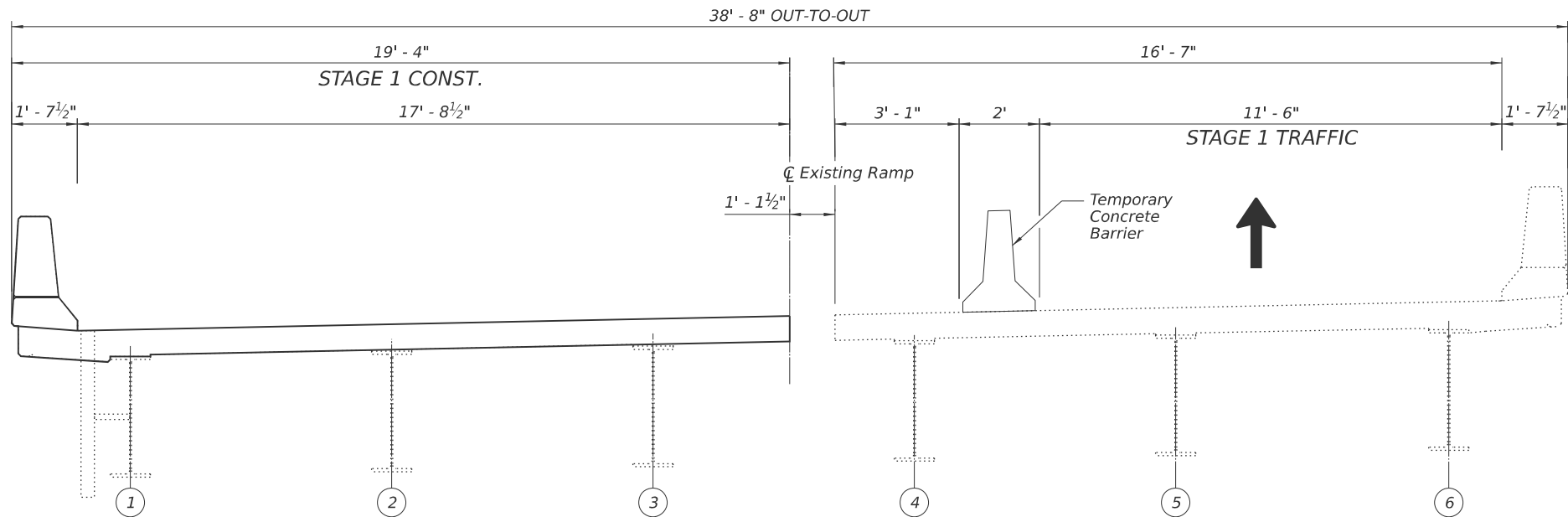
SCALE: NTS SHEET 3 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	544
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: S\MODEL\NAMES
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STAGE 1 REMOVAL
(Looking North - Upstation)



STAGE 1 CONSTRUCTION
(Looking North - Upstation)



USER NAME = m.jones	DESIGNED - ---	REVISED -
	DRAWN - ---	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - ---	REVISED -
PLOT DATE = 11/26/2025	DATE -	REVISED - PRELOAD - SELECT REVISION TO ADVANCE

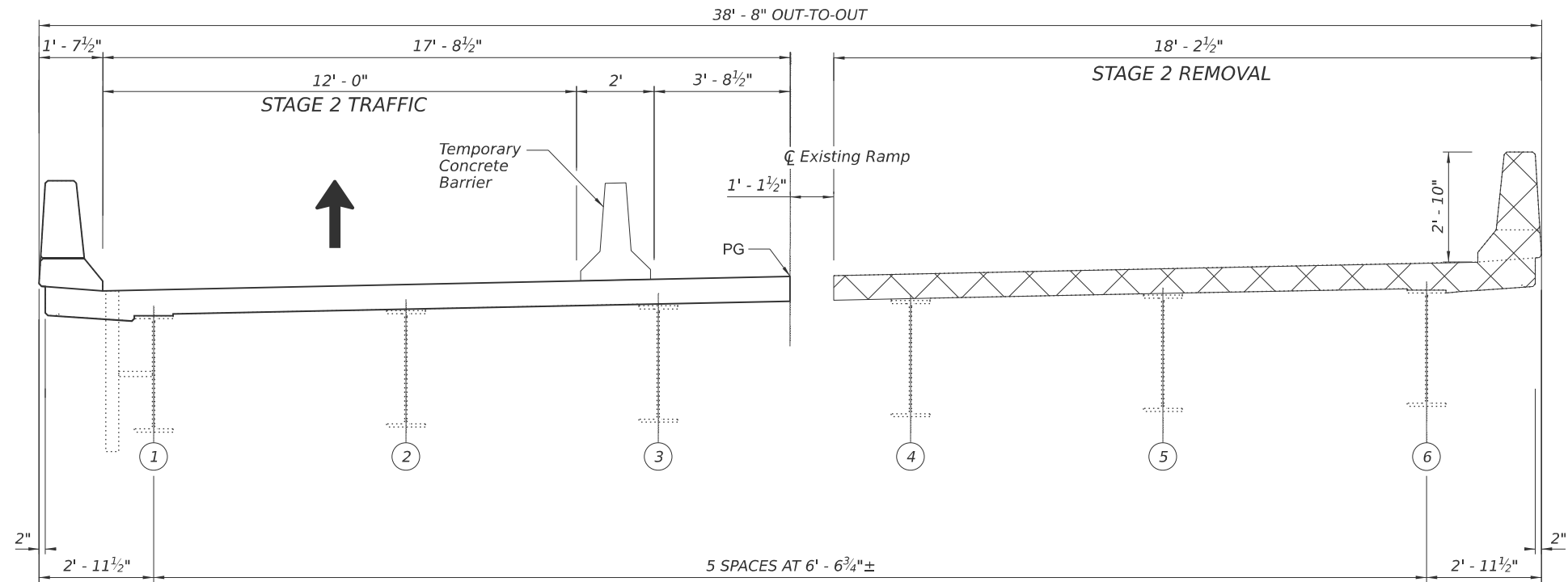
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - TYPICAL SECTION
STRUCTURE NO. 082-0024

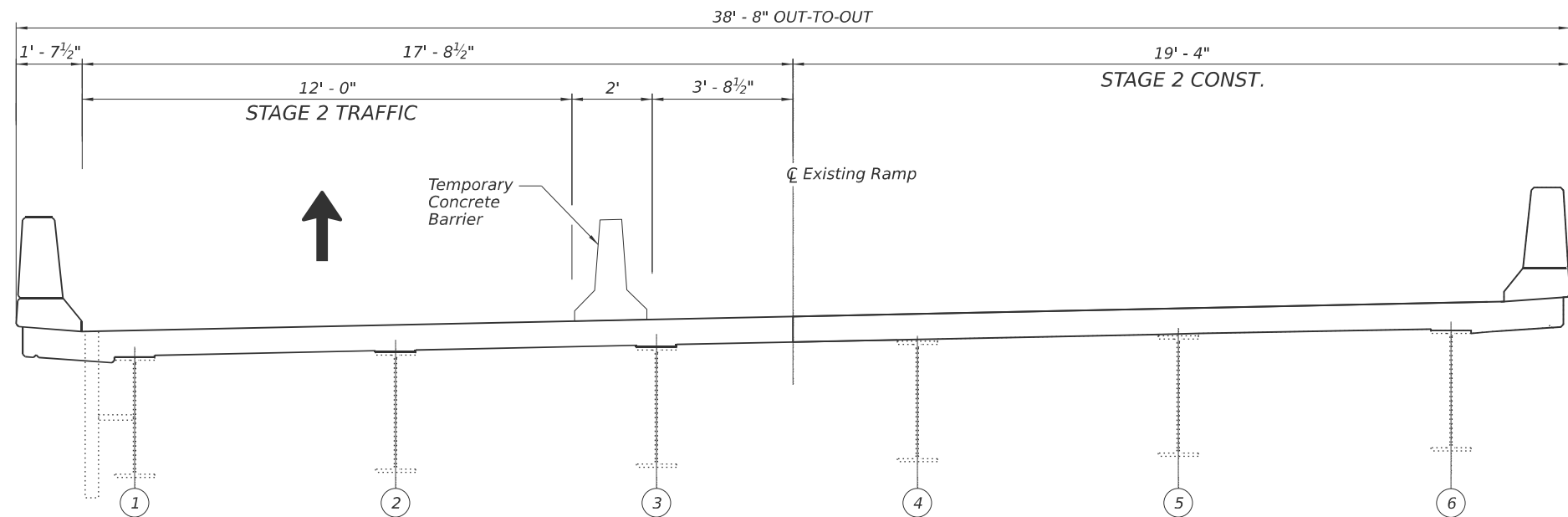
SCALE: NTS SHEET 4 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	544A
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: \$MODELNAME\$
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STAGE 2 REMOVAL
(Looking North - Upstation)



STAGE 2 CONSTRUCTION
(Looking North - Upstation)



USER NAME = m.jones	DESIGNED - ---	REVISED -
	DRAWN - ---	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - ---	REVISED -
PLOT DATE = 11/26/2025	DATE -	REVISED - PRELOAD - SELECT REVISTION TO ADVANCE

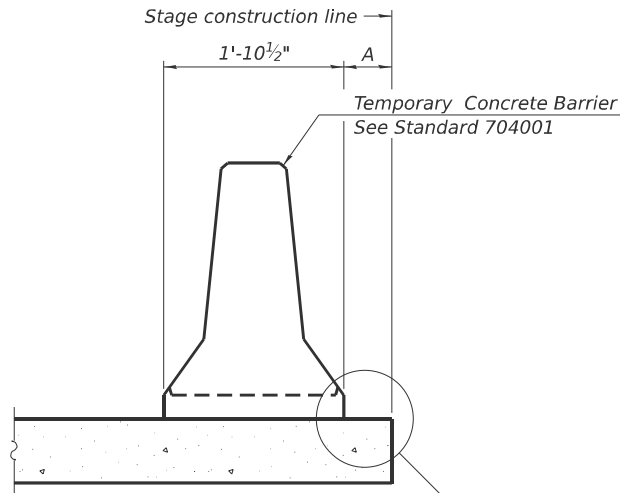
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 - TYPICAL SECTION
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 5 OF 16 SHEETS STA. TO STA.

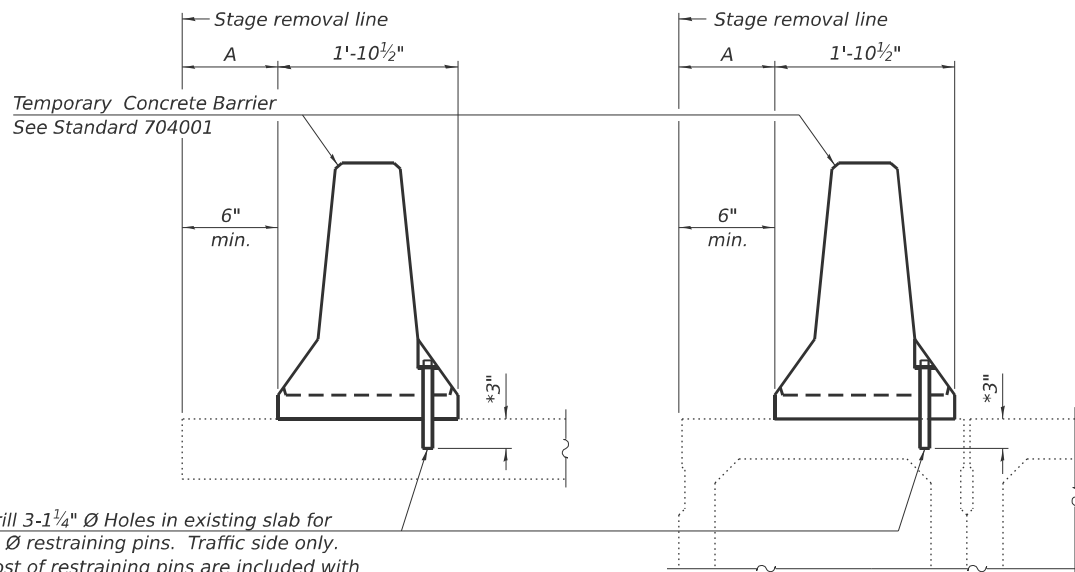
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70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	544B
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: \$MODEL\$
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

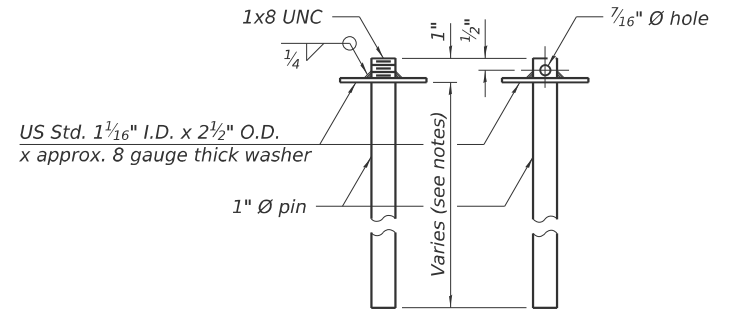


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

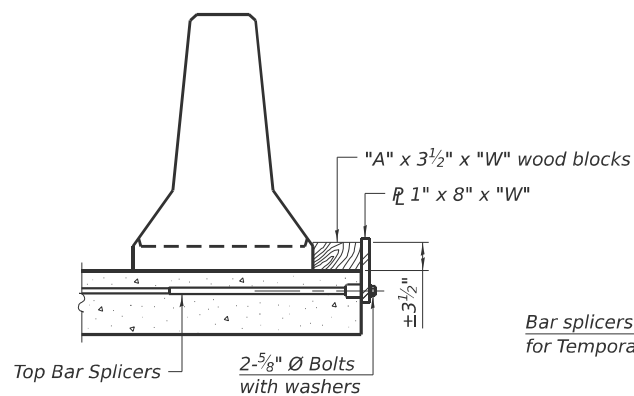
EXISTING SLAB

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

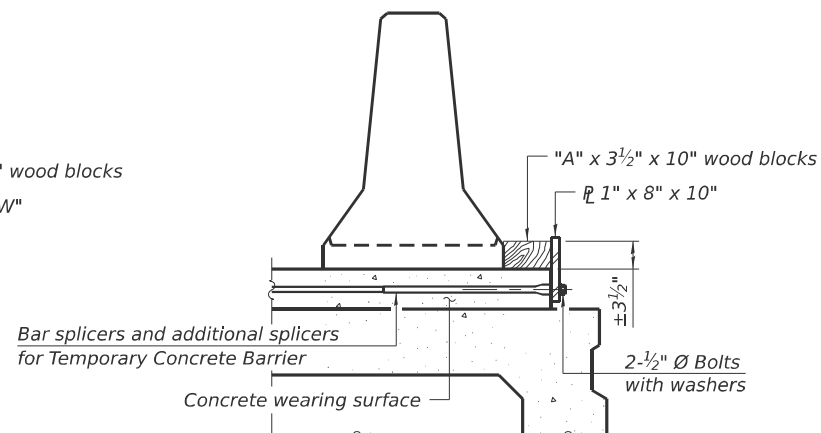
EXISTING DECK BEAM



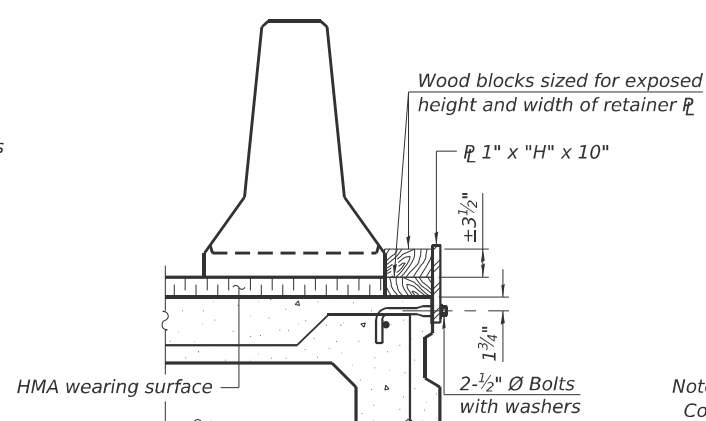
RESTRAINING PIN



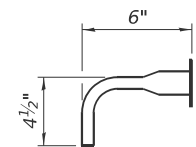
DETAIL I



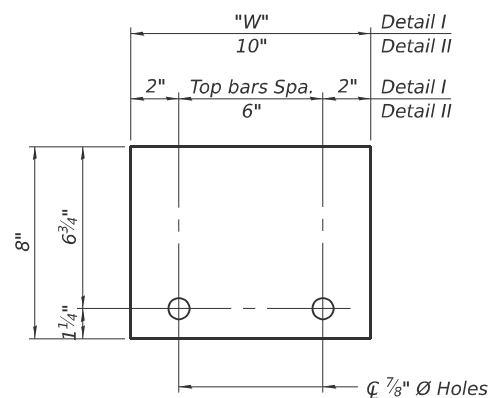
DETAIL II



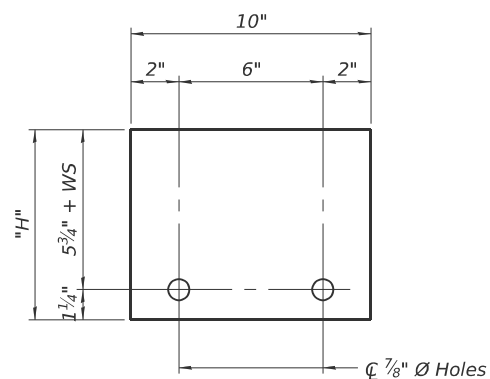
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate $\frac{1}{2}$ " of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME	= m.jones
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 11/26/2025

DESIGNED	- ---
DRAWN	- ---
CHECKED	- ---
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	- PRELOAD - SELECT REVIS

TION TO ADVANCE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 082-0024

SCALE: NTS

SHEET 6

OF 16

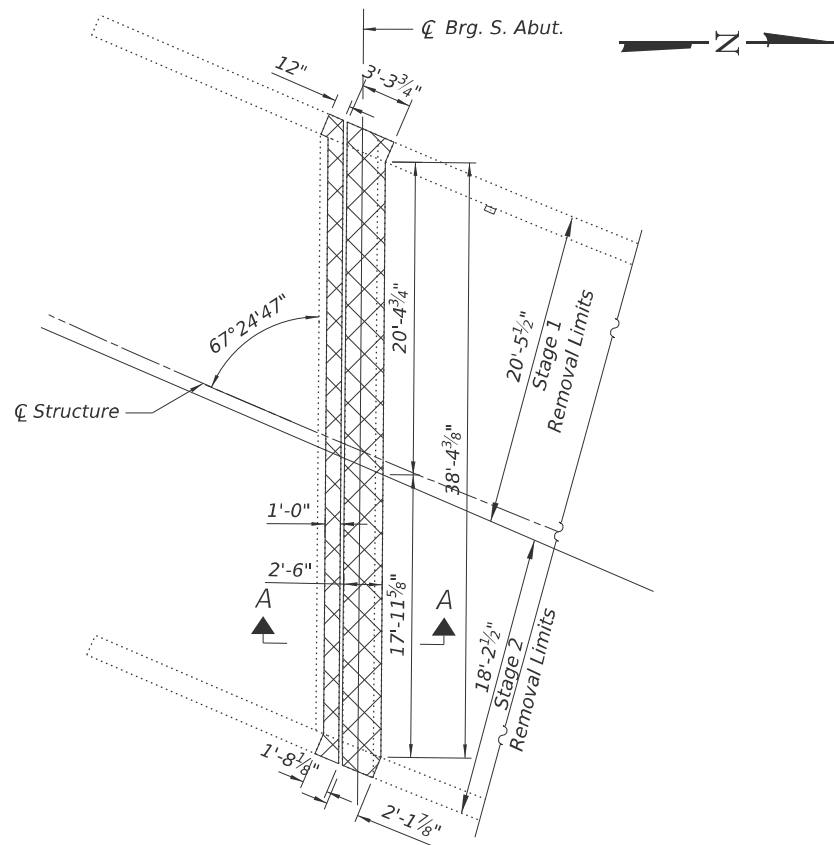
SHEETS

STA.

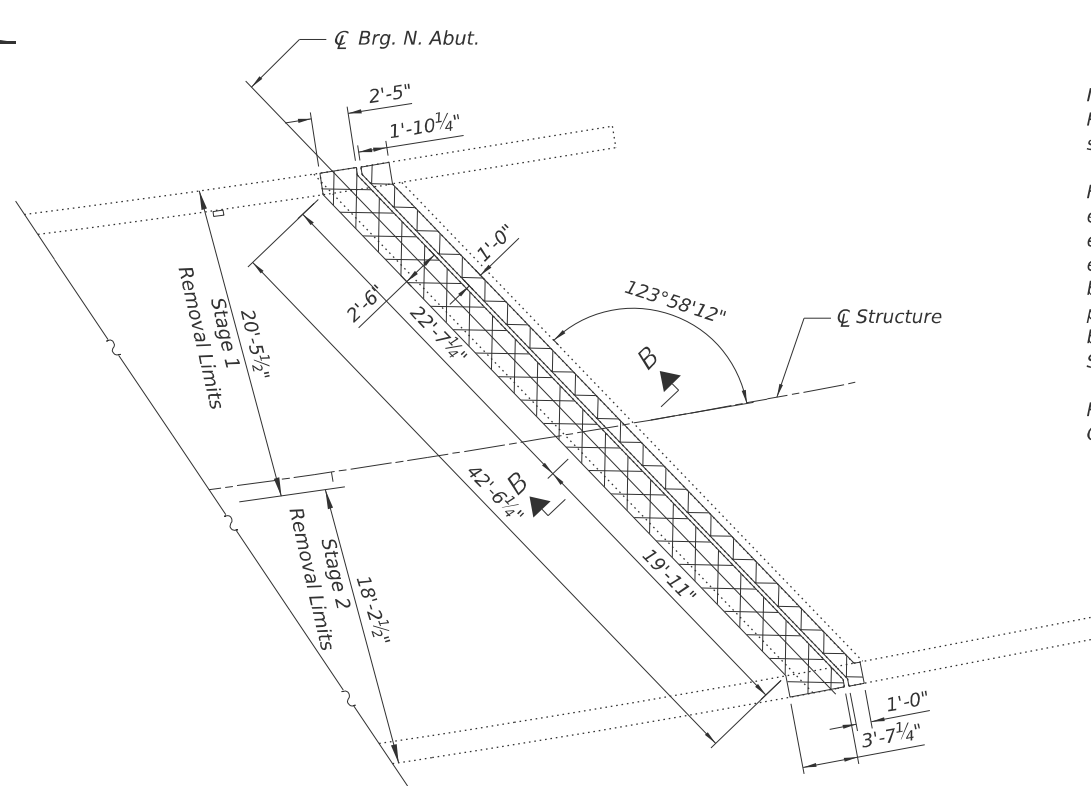
TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	544C
				CONTRACT NO. 76E84
				ILLINOIS FED. AID PROJECT

MODEL: \$MODELNAME\$
FILE NAME: p:\w\jacobs-us-a-pw\benley.com\jacobs-us-a-pw\benley.com\Project Data\PD\ST\ABNA\SHU082002-4-007-01\JOINT DETLS01.dgn



S. ABUTMENT

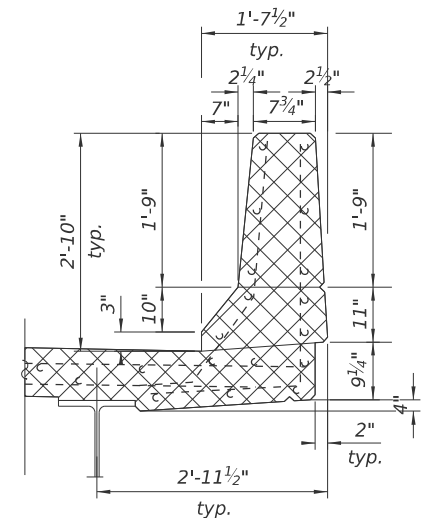


N. ABUTMENT

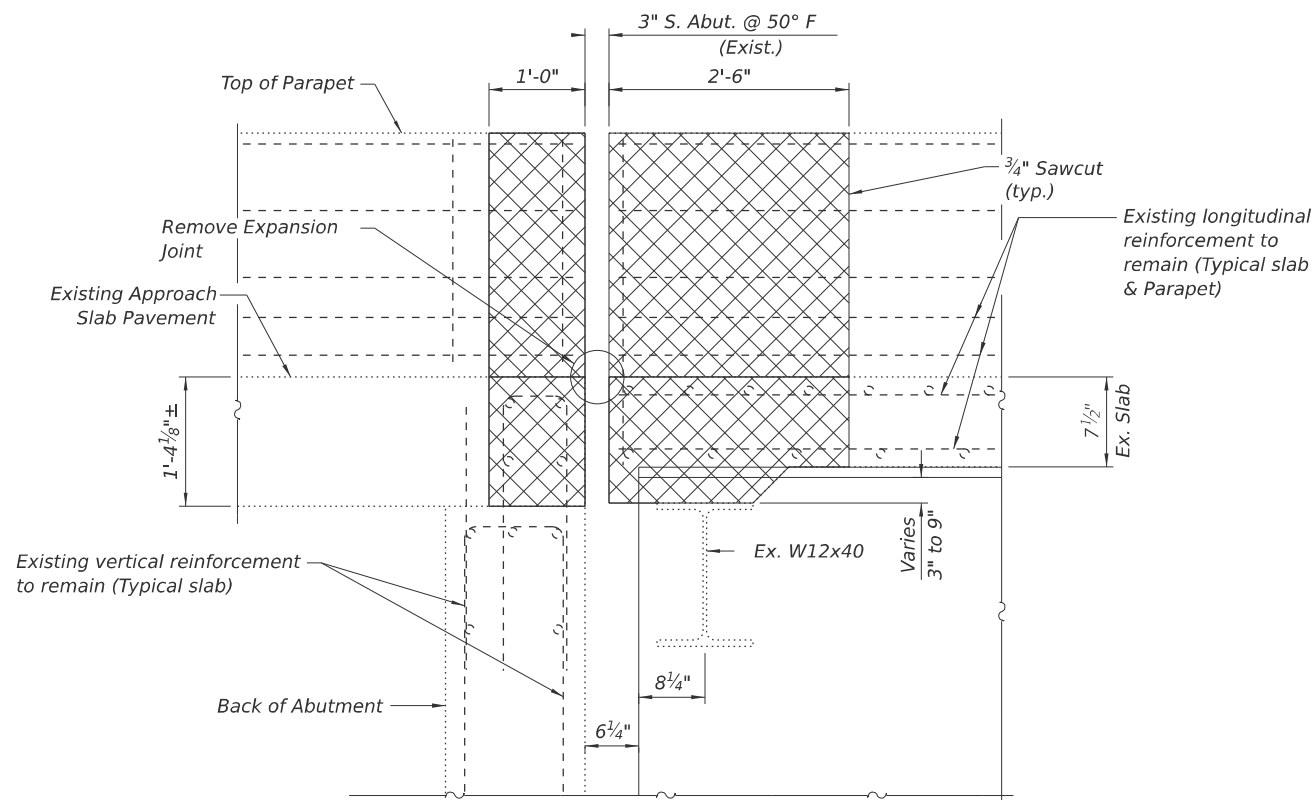
REMOVAL PLAN

Notes:
Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

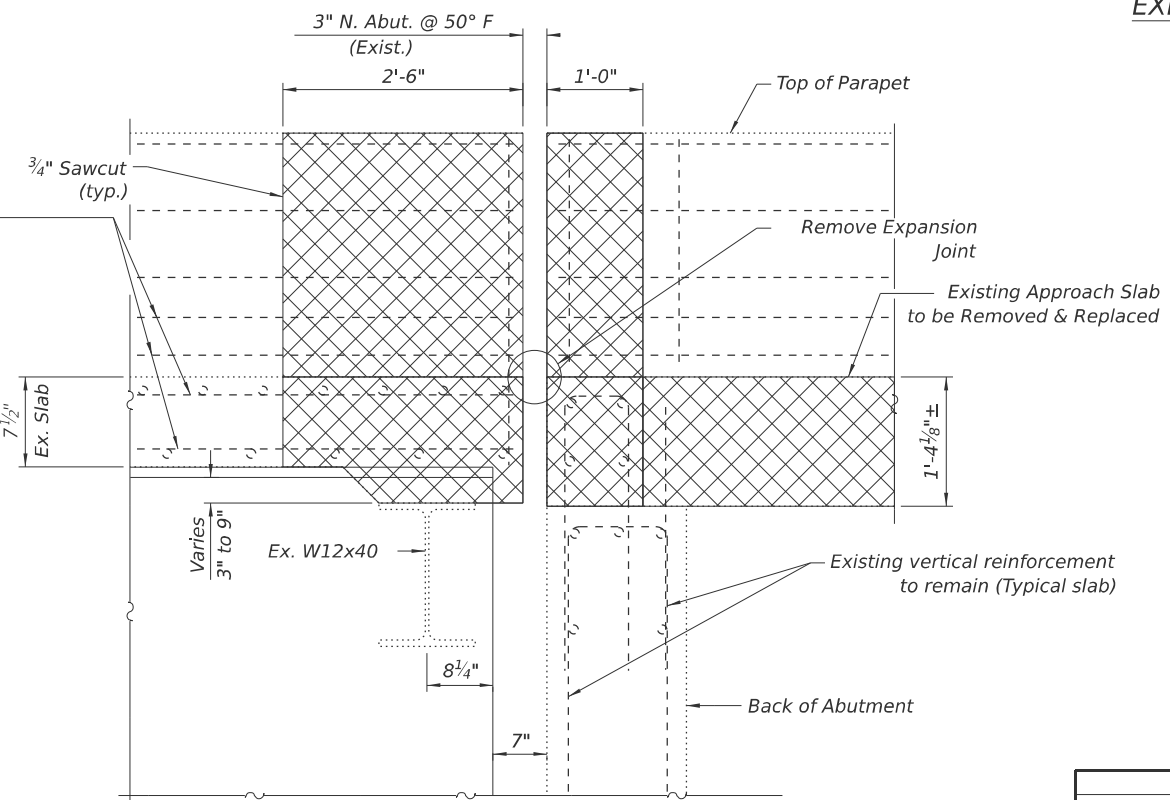
Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged. All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System at the Contractors expense.
Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.



EXISTING PARAPET
SECTION



SECTION A-A
(South Abutment)



SECTION B-B
(North Abutment)

LEGEND



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	13.3



USER NAME = m.jones	DESIGNED - SEA	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MBJ	REVISED -
PLOT DATE = 11/26/2025	CHECKED - SEA	REVISED -
	DATE - 2025/10/03	REVISED -

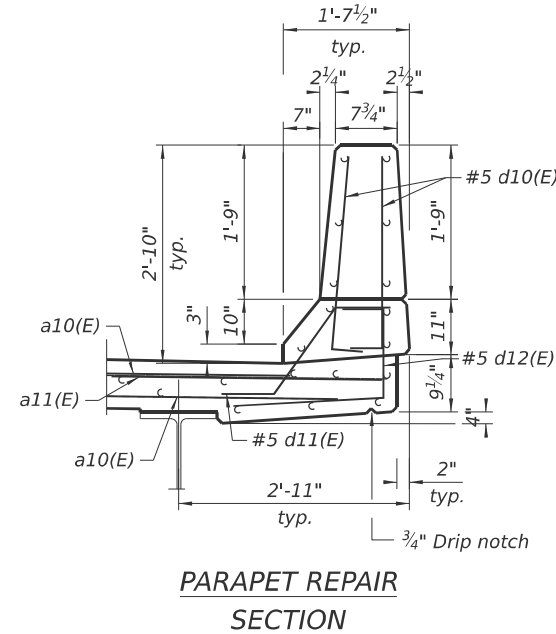
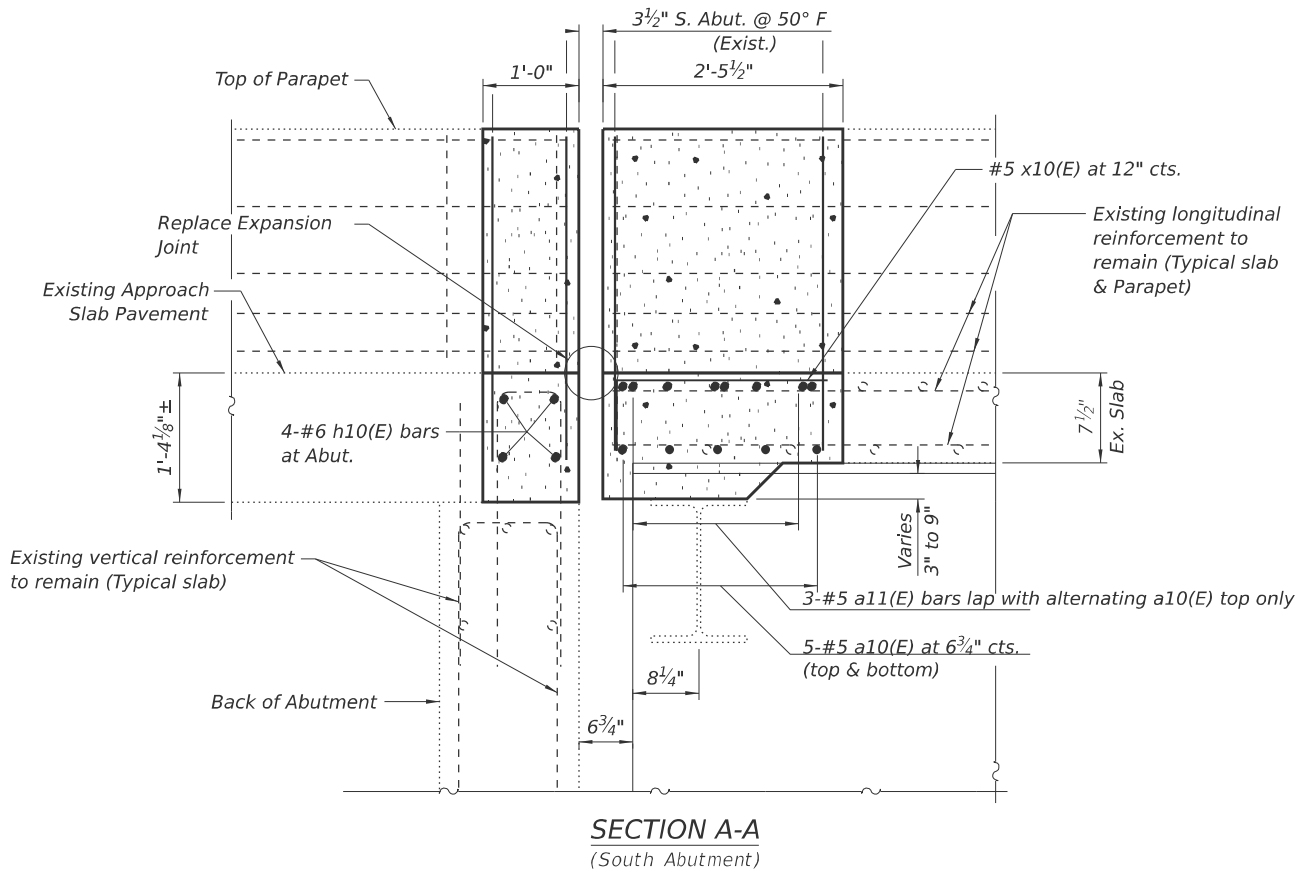
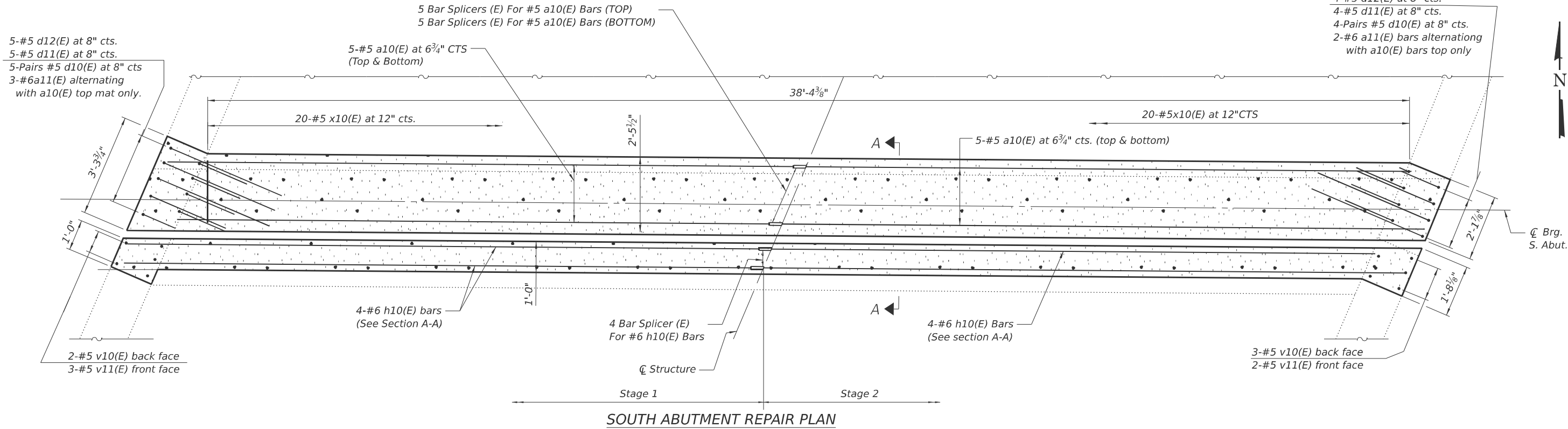
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 7 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	545
ILLINOIS FED. AID PROJECT				

MODEL: \$MODELNAME\$
FILE NAME: p:\r\jacobs-us-a-pw.bentley.com\jacobs-us-a-pw\2024\08\02\024-008-JOINT DETLS02.dgn



Minimum Bar Lap
#5 Bars = 3'-10"
#6 Bars = 5'-3"

BILL OF MATERIAL

Item	Unit	Total
Concrete Superstructure	Cu. Yd.	6.3



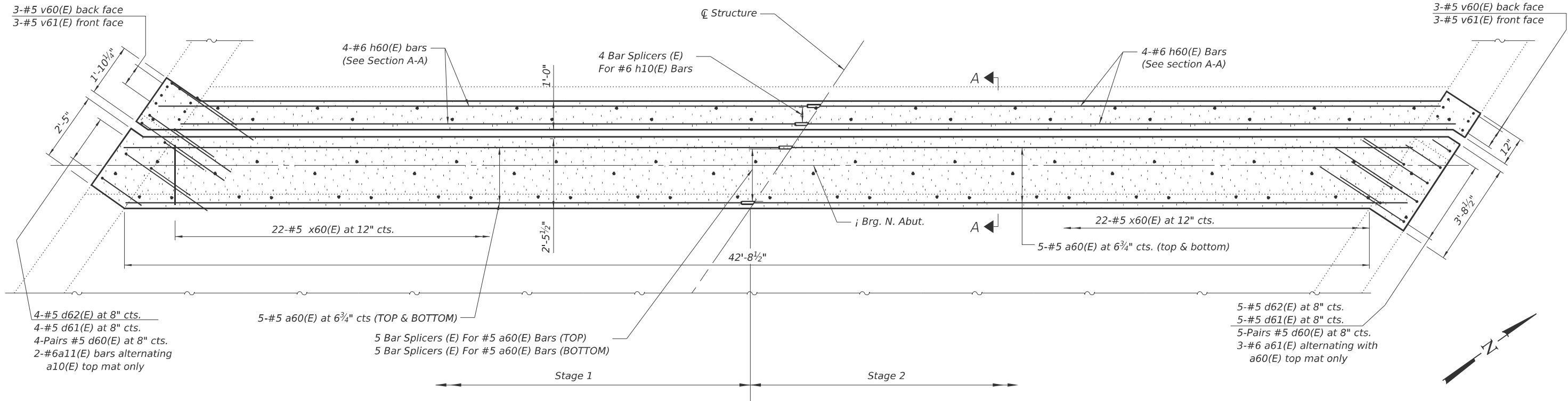
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

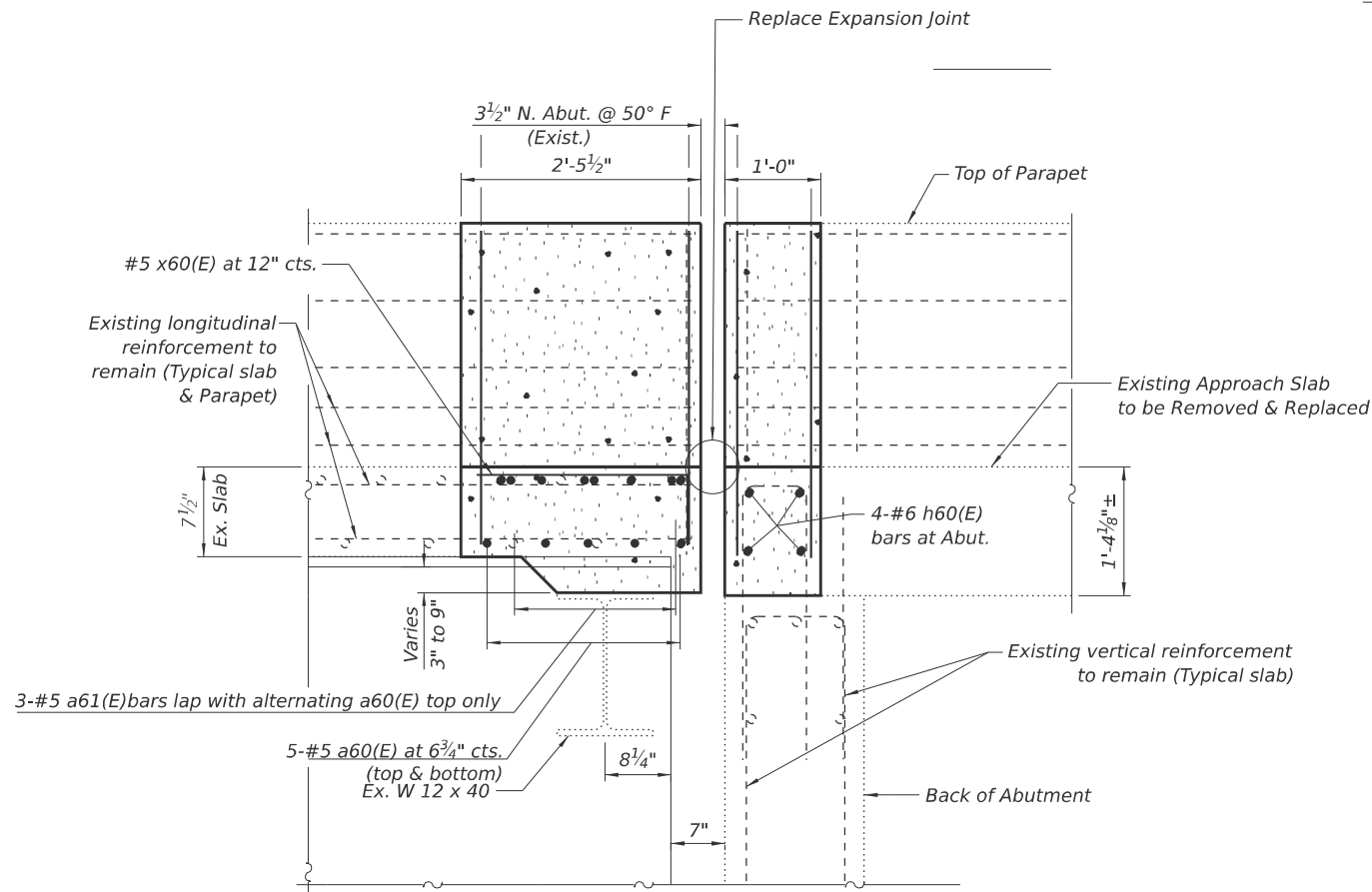
**EXPANSION JOINT REPAIR - SOUTH ABUTMENT
STRUCTURE NO. 082-0024**

SCALE: NTS SHEET 8 OF 16 SHEETS STA. TO STA.

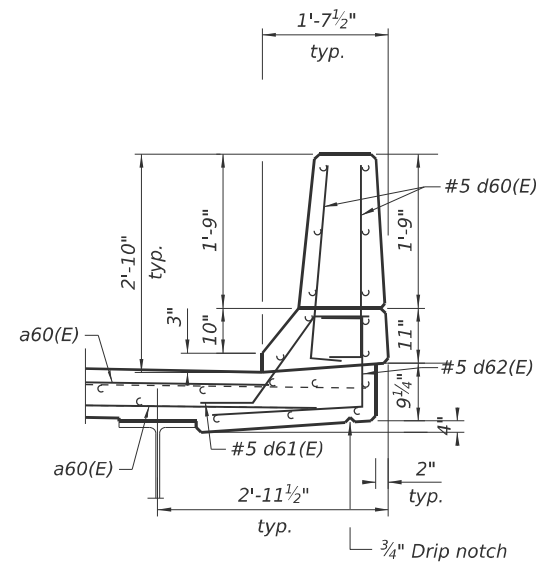
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70	Section82(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	546
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



NORTH ABUTMENT REPAIR PLAN



SECTION A-A
(North Abutment)



PARAPET REPAIR
SECTION

Minimum Bar Lap

#5 Bars = 3'-10"
#6 Bars = 4'-5"

BILL OF MATERIAL

Item	Unit	Total
Concrete Superstructure	Cu. Yd.	7.0

MODEL: \$MODELNAME\$
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPAIR – NORTH ABUTMENT
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 9 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	547
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

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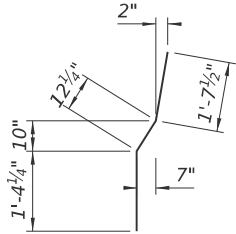
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

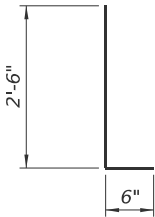
REINFORCEMENT DETAILS STRUCTURE NO. 082-0024		
SCALE: NTS	SHEET 10 OF 16 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

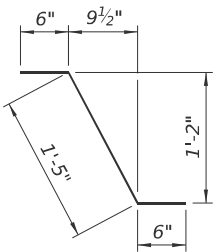
BAR v11(E) or v61(E)



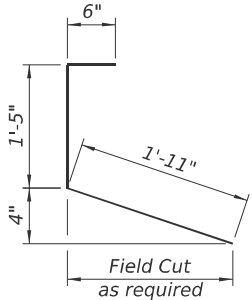
BAR d10(E) or d60(E)



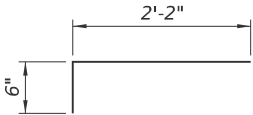
BAR d11(E) or d61(E)



BAR d12(E) or d62(E)



BAR x10(E) or x60(E)



SOUTH ABUTMENT
BILL OF MATERIAL

a10(E)	16	#5	20'-4"	————
a11(E)	5	#6	6'-0"	————
d10(E)	20	#5	3'-0"	┐
d11(E)	10	#5	2'-5"	┐
d12(E)	10	#5	3'-10"	┐
h10(E)	8	#6	20'-4"	————
x10(E)	40	#5	2'-8"	┐
v10(E)	6	#5	3'10"	————
v11(E)	6	#5	4'-0"	————
Reinforcement Bars, Epoxy Coated			Pound	900
Bar Splicers			Each	14

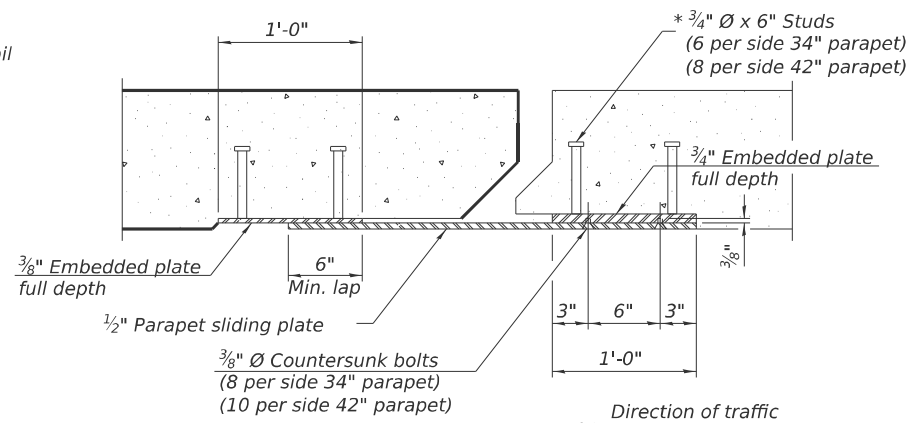
NORTH ABUTMENT
BILL OF MATERIAL

a60(E)	20	#5	23'-9"	————
a61(E)	5	#6	6'-0"	————
d60(E)	18	#5	3'-0"	┐
d61(E)	9	#5	2'-5"	┐
d62(E)	9	#5	3'-10"	┐
h60(E)	8	#6	23'-9"	————
x60(E)	44	#5	2'-8"	┐
v60(E)	5	#5	3'10"	————
v61(E)	5	#5	4'-0"	————
Reinforcement Bars, Epoxy Coated			Pound	1110
Bar Splicers			Each	14

Notes:
For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. 11.



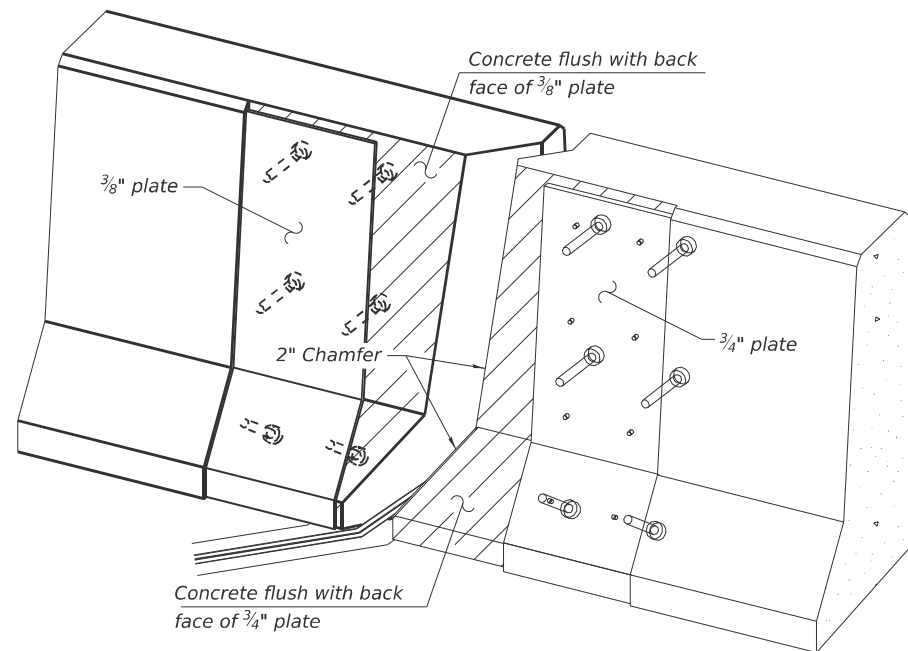
PLAN AT PARAPET



SECTION B-B

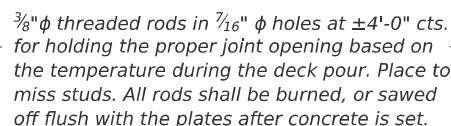


(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



TRIMETRIC VIEW

(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT



LOCKING EDGE RAILS

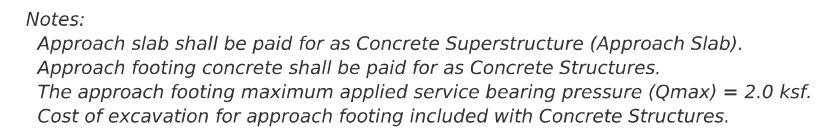
**** Back gouge not required if complete joint penetration is verified by mock-up.**



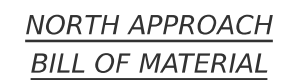
The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	89.0



SECTION A-A



Minimum Bar Lap

#5 Bar = 2'-6"
#8 Bar = 5'-2"



Figure 1 is a cross-sectional view of a composite structure. The structure consists of a central core (a103(E)) sandwiched between two outer layers (b100(E) and b102(E)). The core is reinforced with fibers (a101(E) and a103(E)). The outer layers are reinforced with fibers (b101(E) and b103(E)). Dimensions are indicated: 3/4 inch for the top layer thickness, 5 1/4 inch for the total width, and 4 inch for the core height.

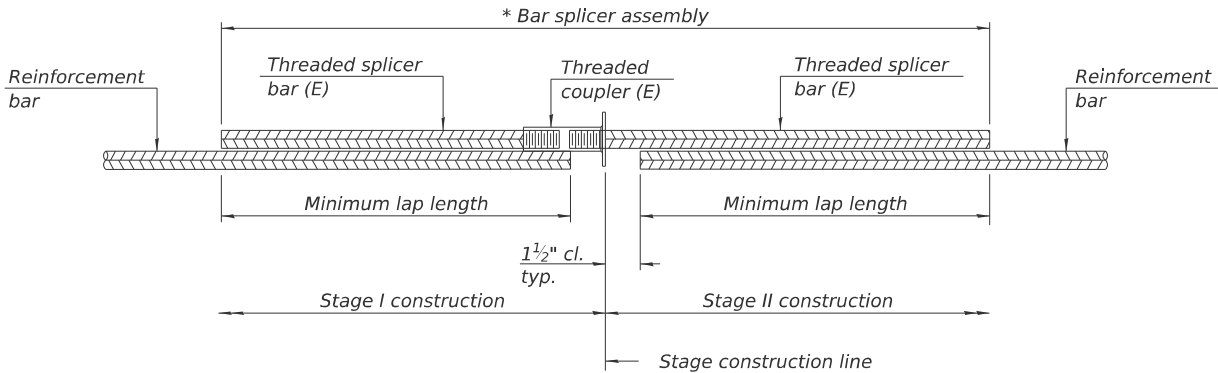
SECTION B-B

** Cost included with Concrete Superstructure (Approach Slab).

*** Per manufacturer recommendations

(Sheet 2 of 2)

MODEL: \$MODELNAME\$
FILE NAME: c:\w\jacobs-us-va-pw.bentley.com\jacobs-us-va-pw\Documents\ID3152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\PD\ST\ABNA\SW\082002-4-014-BAR SPLICER.dgn



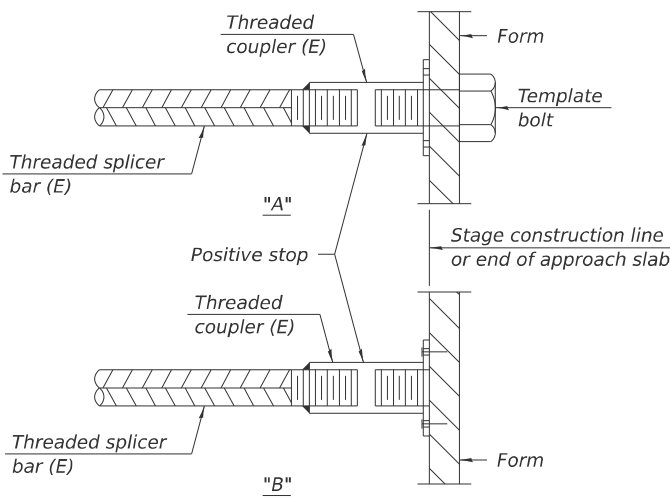
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + 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
S. Abut.	5	10	3'-10"
S. Abut.	6	4	4'-5"
N. Abut.	5	10	3'-10"
N. Abut.	6	4	4'-5"
N. Appr. Slab	5	86	2'-6"
N. Appr. Slab	8	59	5'-2"

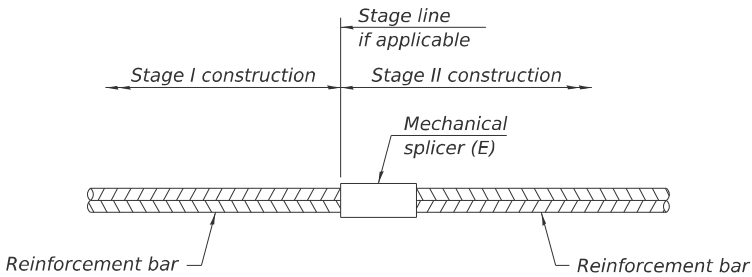


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

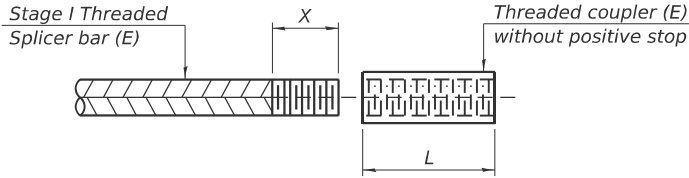
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(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.

BSD-1

4-4-2025



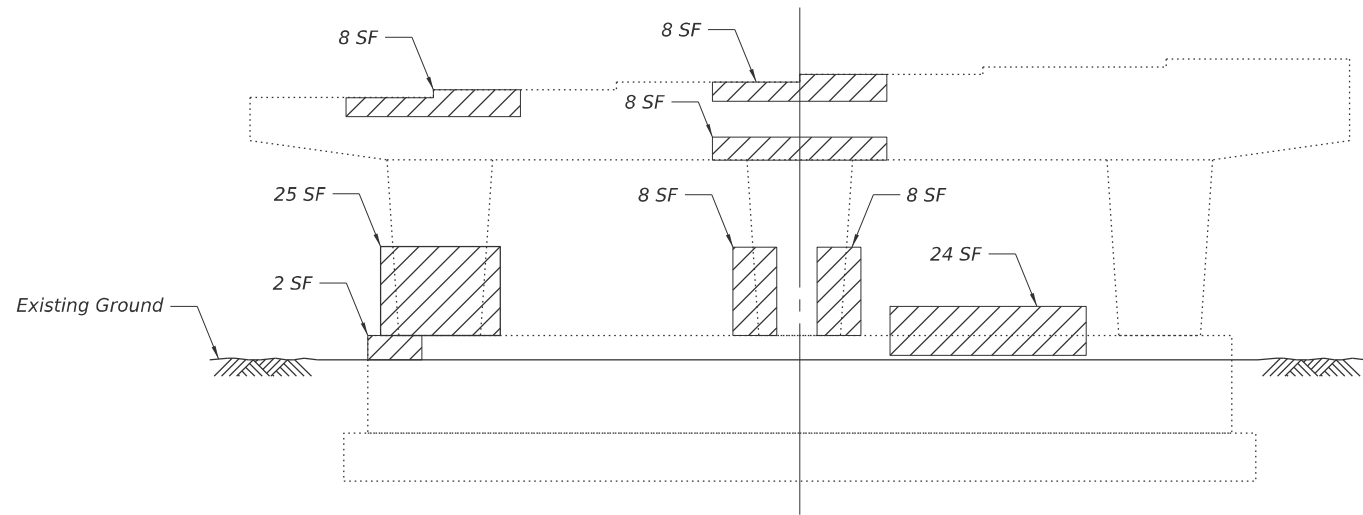
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

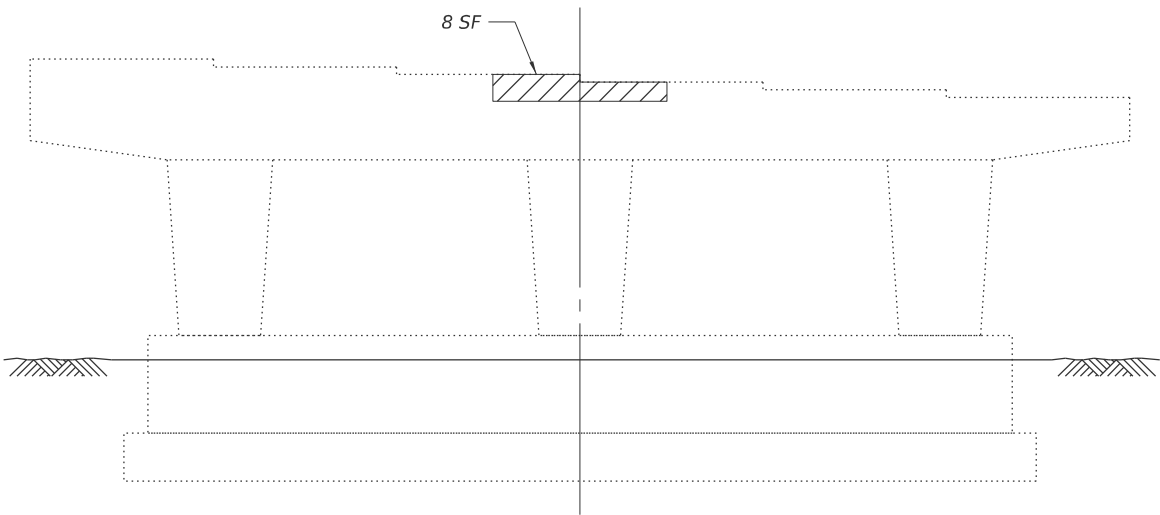
BAR SPLICERS
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 14 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	551A
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



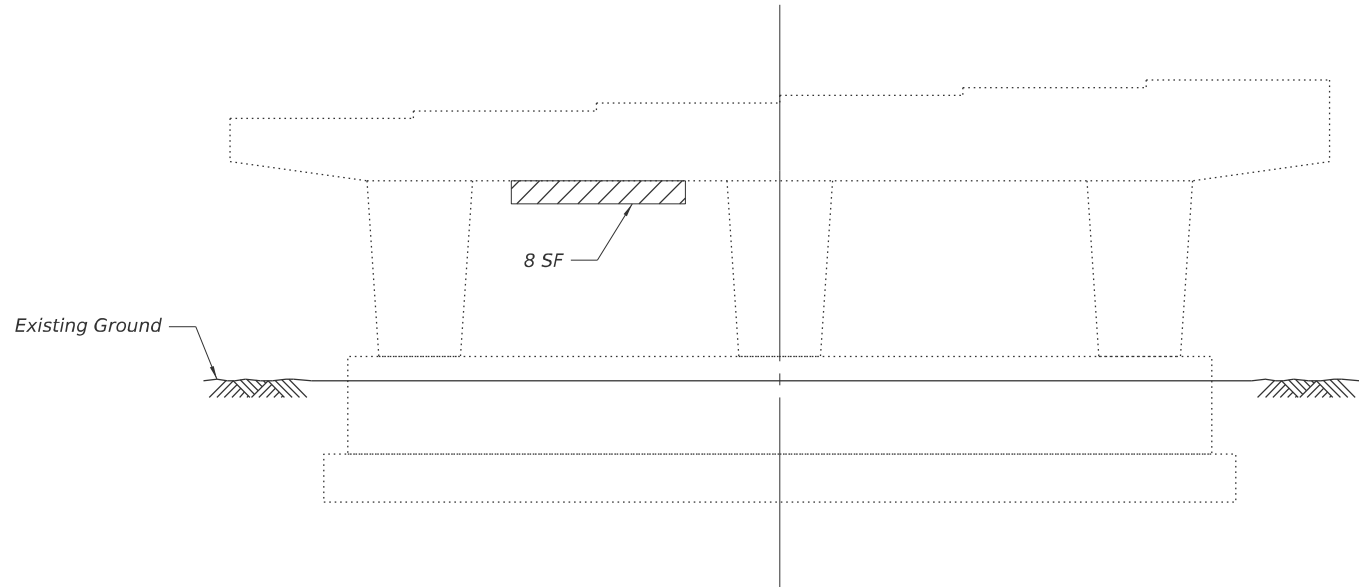
PIER 3 - SOUTH ELEVATION



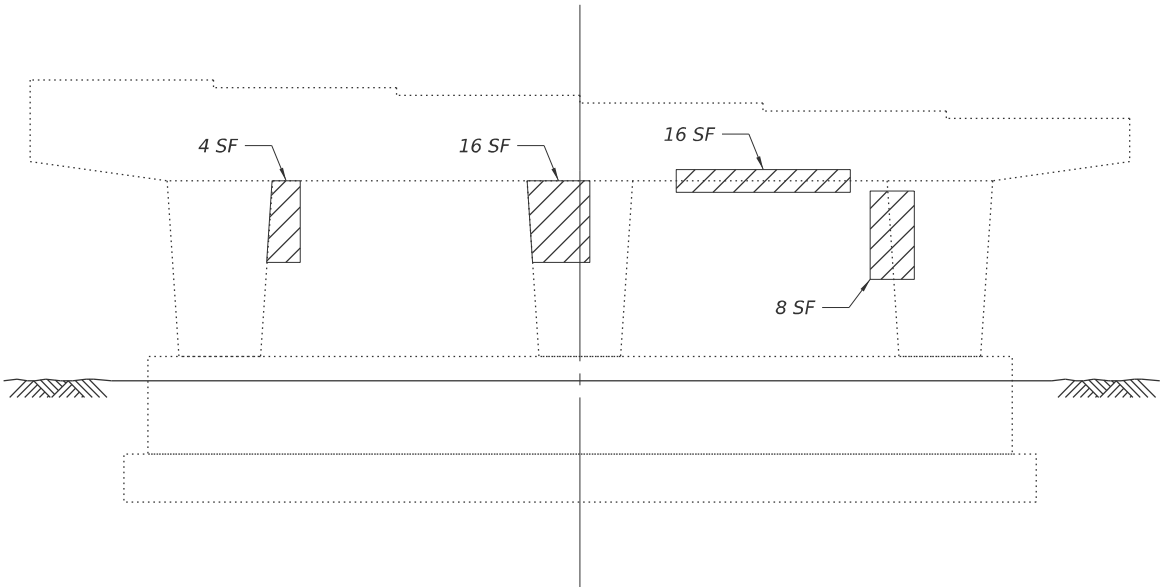
PIER 3 - NORTH ELEVATION

LEGEND

 Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PIER 4 - SOUTH ELEVATION



PIER 4 - NORTH ELEVATION

SUBSTRUCTURE REPAIR ELEVATIONS

Note: Repairs are estimates. Actual size and locatin of repairs will be decided upon by the Engineer.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	189

MODEL: \$MODELNAME\$
FILE NAME: p:\w\jacobs-us-a-pw.bentley.com\jacobs-us-a-pw\44\Documents\ID312206.02 - ILDOT - L55 I-70 Rehabilitation\30 Project Data\PID\ST\ABNA\SH082002-4-015-SUBSTR01.dgn



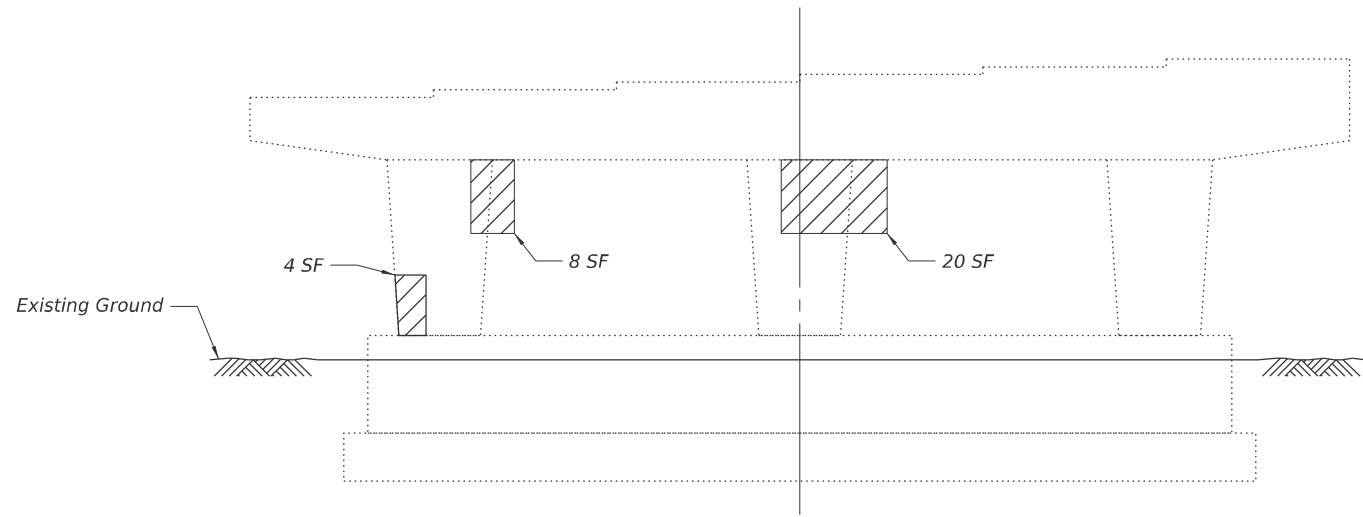
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	DRAWN - MBJ	REVISED -
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PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

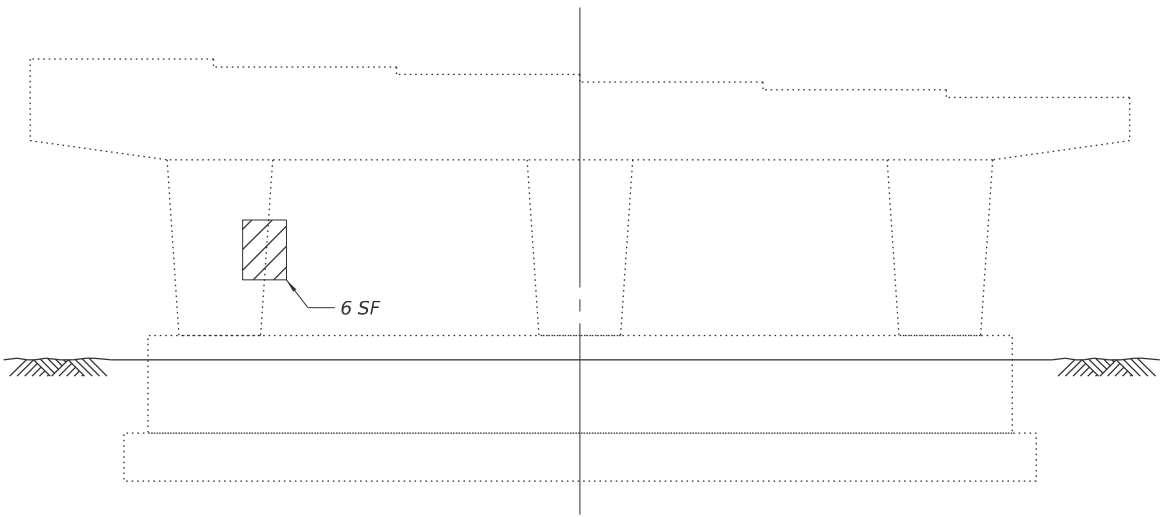
SUBSTRUCTURE REPAIR 01
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 15 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	552
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



PIER 5 - SOUTH ELEVATION



PIER 5 - NORTH ELEVATION

SUBSTRUCTURE REPAIR ELEVATIONS

Note: Repairs are estimates. Actual size and locatin of repairs will be decided upon by the Engineer.

LEGEND



Structural Repair of Concrete
(Depth equal to or less than 5 inches)

MODEL: \$MODELNAME\$
FILE NAME: c:\w\jacobs-us-va-pw.bentley.com\jacobs-us-va-pw-44\Documents\ID3152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\PID\ST\ABNA\SH\082002-4-016-SUBSTR02.dgn



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PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR 02
STRUCTURE NO. 082-0024

SCALE: NTS SHEET 16 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	553
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

Benchmark: Aluminum Disk in concrete swale (top of paved ditch) in median of Ramp from I-55/70 NB to IL 203 SB. ELEV. = 424.55'

Existing Structure: Structure Number 082-0025 originally built in 1960 under IDOT Contract I-70-1(25)2. The Structure is 217'-5" long and consist of a 3-Span, WF beam superstructure supported by concrete piers on creosoted timber piles and concrete pile abutments. In 1999 the bridge was rehabilitated under contract ACBHI-70-1(174)3 and the scope of work included removing and replacing the existing superstructure, widening abutments and modifying wingwall and backwall, minor repairs to piers, removing and replacing bearings with low profile fixed and elastomeric expansion bearings, and removing and replacing concrete slopewalls. The structure is 217'-5" from back-to-back abutments on a 57 degree skew. The overall width of the bridge is 38'-8".

Traffic Control: Traffic is to be maintained using stage construction.

Salvage: No salvage of bridge components

DESIGN STRESSES

FIELD UNITS (New Const.)

f'c = 4,000 psi (Superstructure)

fy=60,000 psi (Reinforcement)

FIELD UNITS (Exist. Const.)

f'c = 3,500 psi (Superstructure)

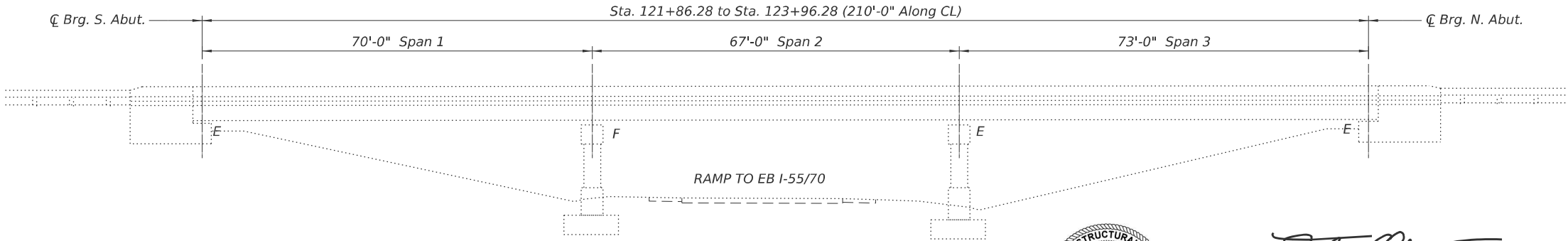
f'c = 3,500 psi (Substructure)

fy = 60,000 psi (Reinforcement)

fy = 50,000 psi (Structural Steel)

SCOPE OF WORK

- 1) Remove and replace joints at abutments.
- 2) Repair deck slab.
- 3) Replace north approach slab West curb.
- 4) Clean deck drains and approach slab inlets.
- 5) Full lane sealant waterproofing and HMA overlay.
- 6) Place concrete sealer under expansion joints.
- 7) Apply protective coat to barriers and new concrete.
- 8) Asphalt curb repair.

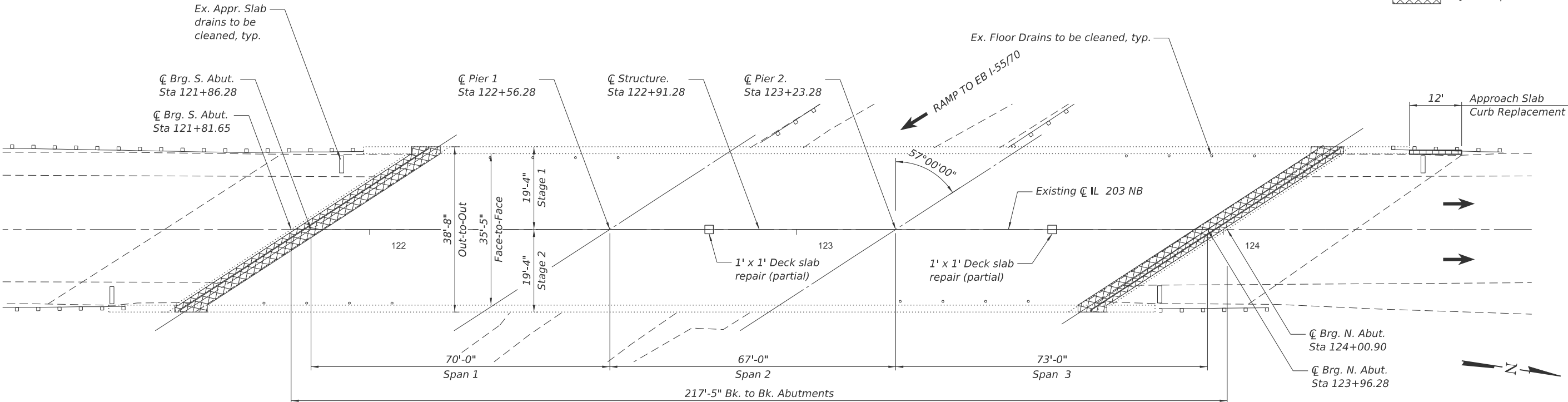


Signed:
Stephen E. Alsbury, S.E. IL. Lic. No. 081-5261
Expires: 11/30/2026

Date: September 26, 2025

ELEVATION

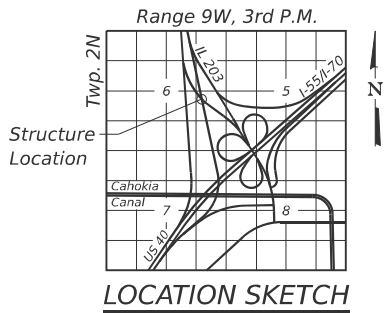
LEGEND



INDEX OF SHEETS

- 1) General Plan and Elevation
- 2) General Notes and Total Bill of Materials
- 3) Typical Slab Sections
- 4) Stage 1 Typical Sections
- 5) Stage 2 Typical Sections
- 6) Temporary Concrete Barrier
- 7) Expansion Joint Removal
- 8) Expansion Joint Repair - South Abutment
- 9) Expansion Joint Repair - North Abutment
- 10) Reinforcement Details
- 11) Preformed Joint Strip Seal
- 12) Bar Splicer

PLAN



GENERAL PLAN AND ELEVATION

IL 203 NB OVER
SB RAMP TO EB I-55/70
F.A.I. RTE. 70
SECTION 82-(5,6)RS-2
ST. CLAIR COUNTY
STATION 122+91.28
STRUCTURE NO. 082-0025



USER NAME = m.jones	DESIGNED - SEA	REVISED -
	DRAWN - MBJ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 082-0025

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	554
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete(SSPC – SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished 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. Cost included with Concrete Removal. Any reinforcement bars that are damaged during concrete removal shall replaced with an approved bar splicer or anchorage system at the contractors expense..

Joint openings shall be adjusted according to Article 520.04 of the Standard specifications, when the deck is poured at ambient temperature other than 50°.

Concrete sealer shall be applied to the designated areas of the South and North abutments. The concrete sealer shall be a "Film Forming" type for horizontal surfaces.

All structural steel shall conform to AASHTO classification M-270 Gr, 36 unless otherwise noted.

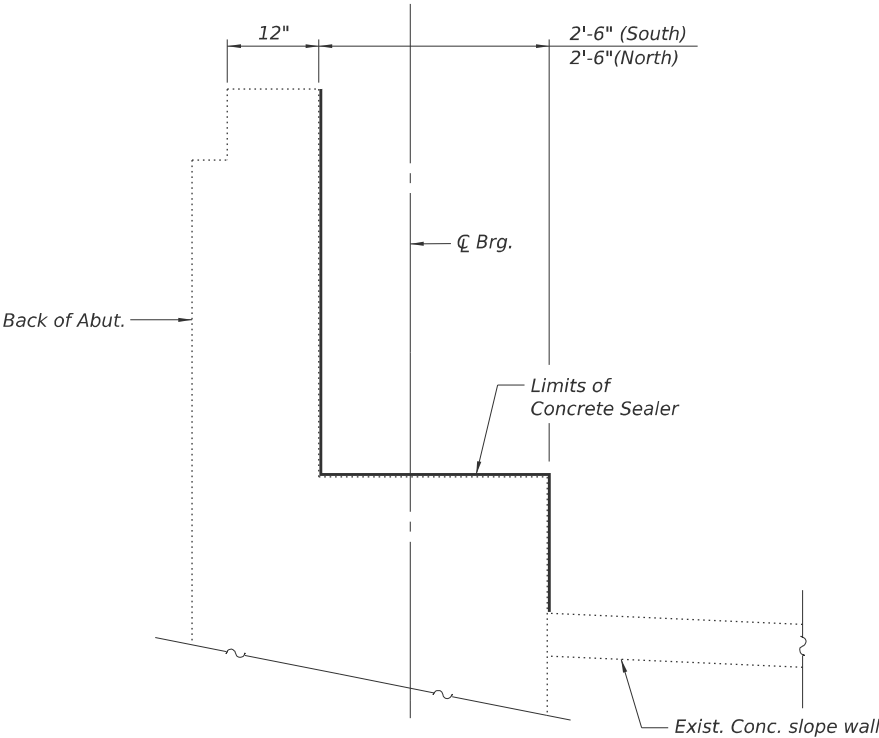
No field welding is permitted except as specified in the contract documents.

Areas of deck repairs shown are estimates. The engineer shall show actual deck repairs on As-build plans.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "E", N80	Ton	70
Concrete Removal	Cu. Yd.	19.6
Concrete Superstructure	Cu. Yd.	22.2
* Protective Coat	Sq. Yd.	56
Reinforcement Bars, Epoxy Coated	Pound	3080
Bar Splicer	Each	28
Preformed Joint Strip Seal	Foot	134
Concrete Sealer	Sq. Ft.	1124
Full Lane Sealant Waterproofing System	Sq. Yd.	836
Floor Drains to be Cleaned	Each	16
Deck Slab Repair (Partial)	Sq. Yd.	1.0
Clean Approach Slab Drain	Each	4
Hot-Mix Asphalt Curb Repair	Foot	12

* Protective coat shall be applied to the top and front face of new parapet concrete and new deck at joints.



CONCRETE SEALER TYPICAL

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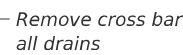
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

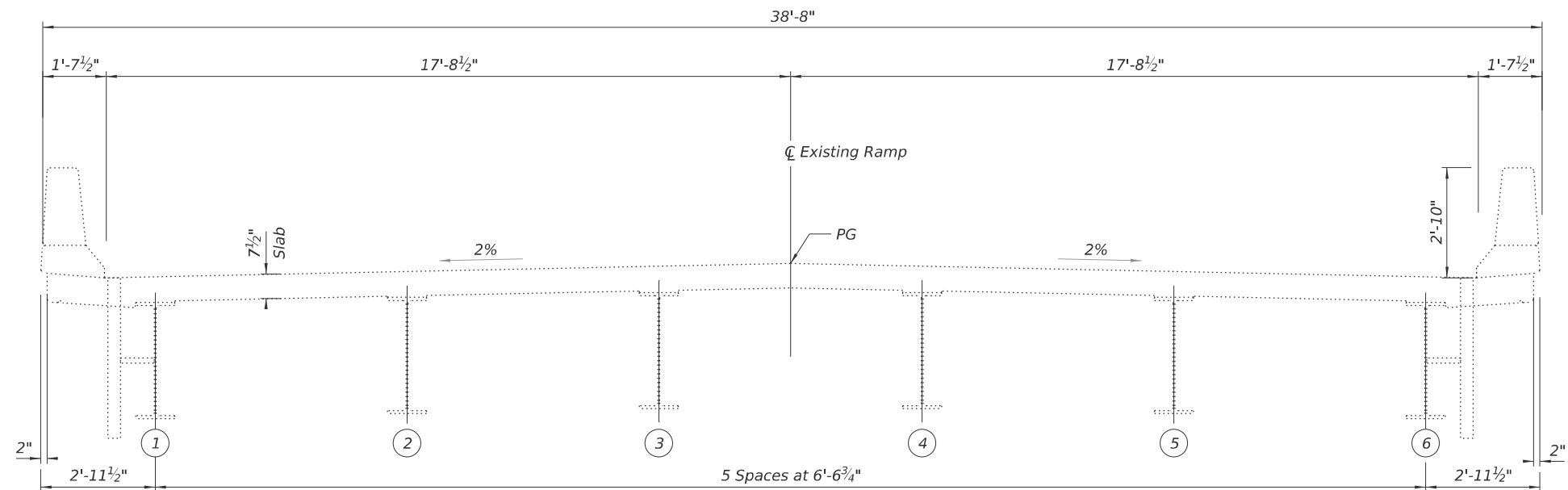
GENERAL NOTES AND TOTAL BILL OF MATERIALS
STRUCTURE NO. 082–0025

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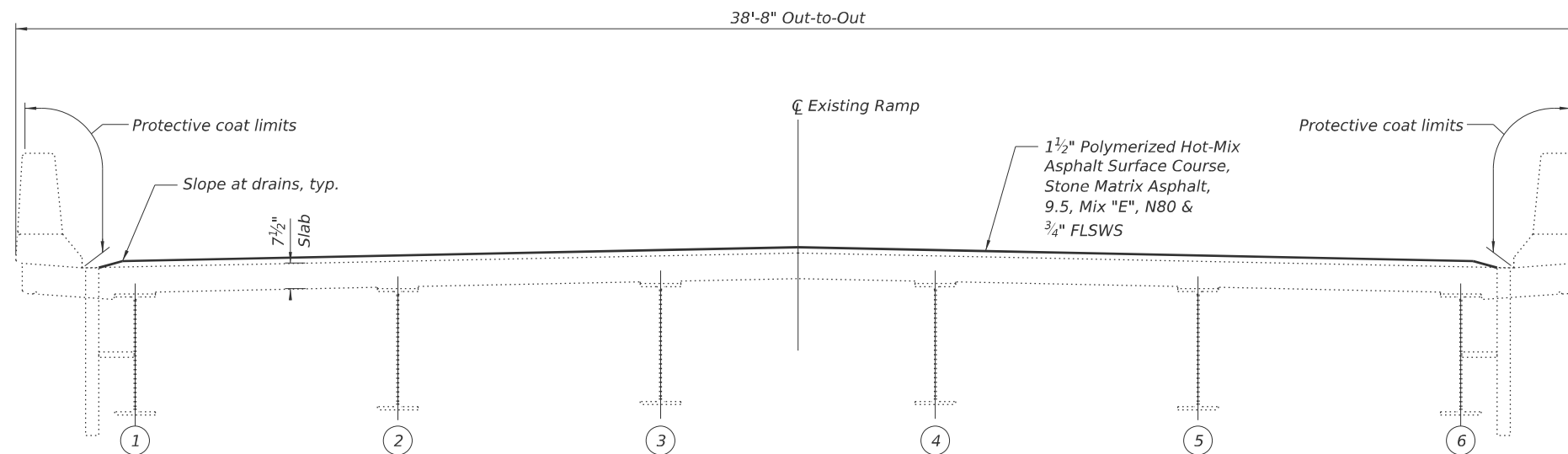
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	555
CONTRACT NO. 76E84				
ILLINOIS			FED. AID PROJECT	



DRAIN SLOPE



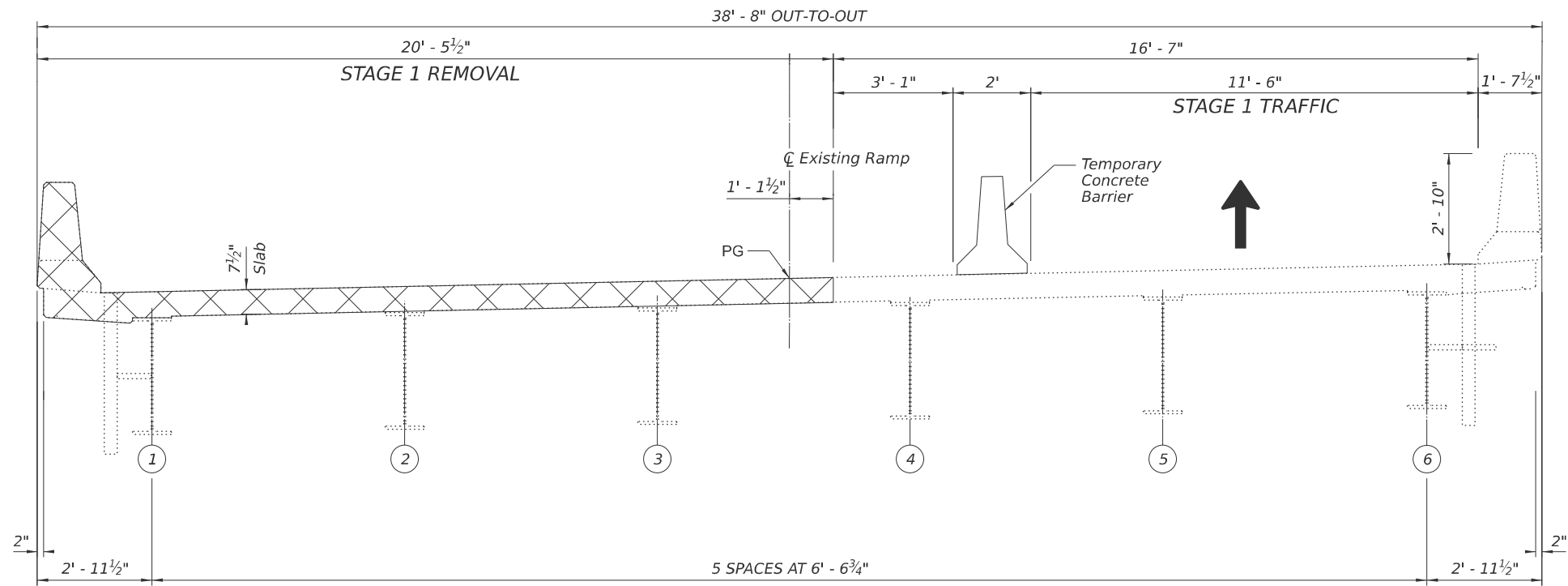
EXISTING TYPICAL SLAB SECTION
(Looking North - Upstation)



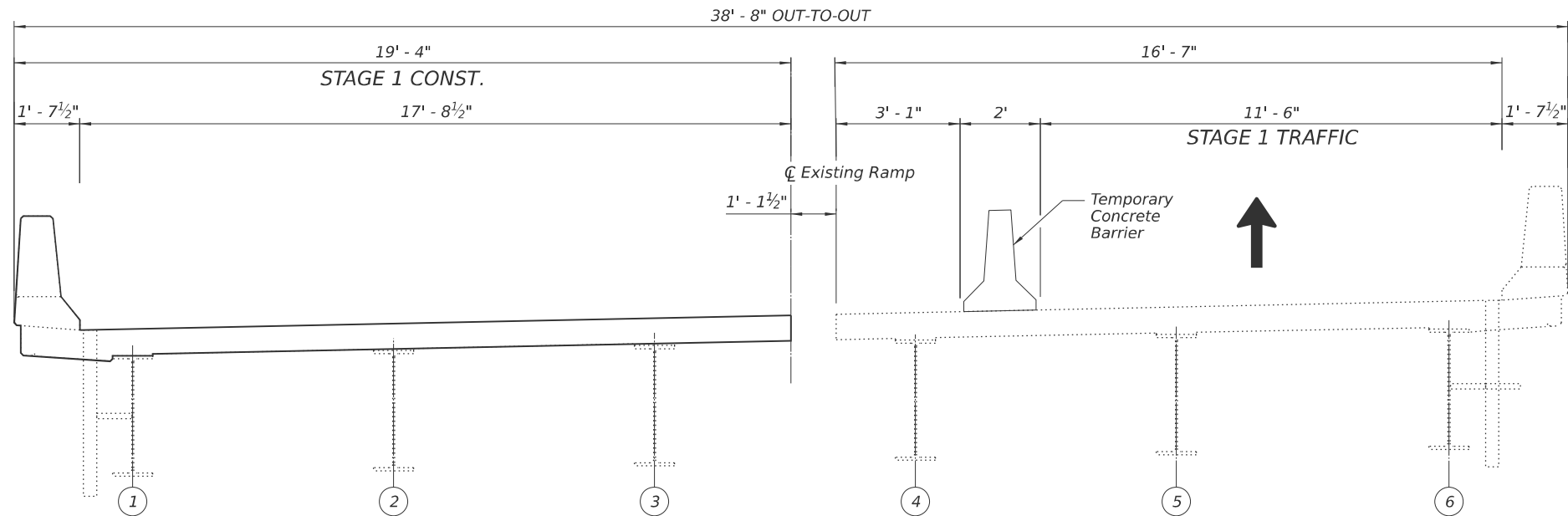
PROPOSED TYPICAL SLAB SECTION
(Looking North - Upstation)

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	PLOT DATE = 11/28/2025	CHECKED - SEA	REVISED -			CONTRACT NO. 76E84				
	DATE - 2025/10/03	REVISED -	SCALE: NTS SHEET 3 OF 12 SHEETS STA. TO STA.							

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STAGE 1 REMOVAL
(Looking North - Upstation)



STAGE 1 CONSTRUCTION
(Looking North - Upstation)



USER NAME = m.jones	DESIGNED - ---	REVISED -
	DRAWN - ---	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - ---	REVISED -
PLOT DATE = 11/26/2025	DATE -	REVISED -

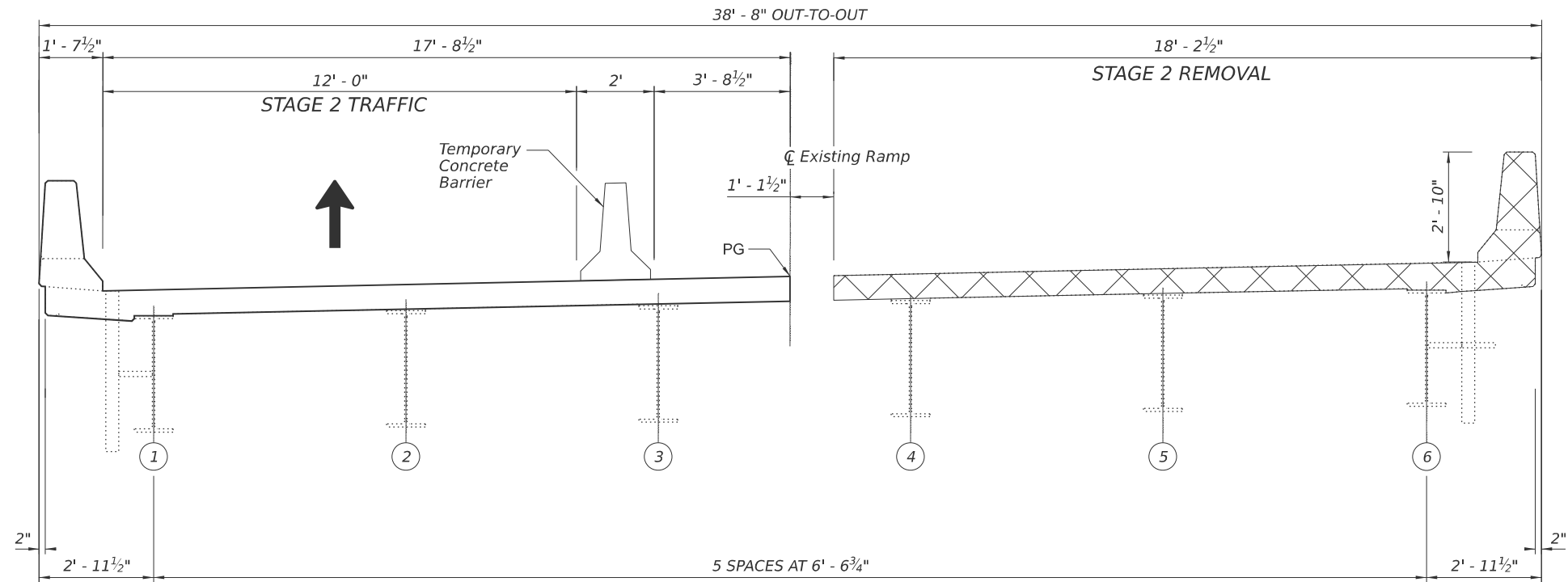
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - TYPICAL SECTION
STRUCTURE NO. 082-0025

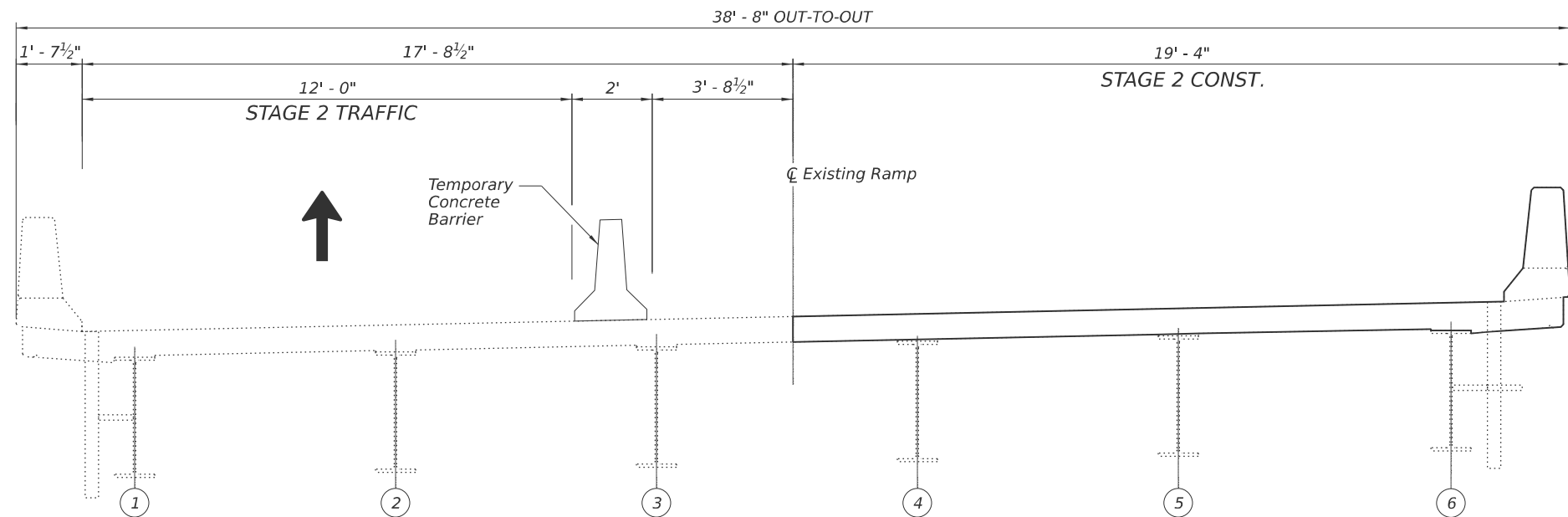
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

MODEL: \$MODELNAME\$
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STAGE 2 REMOVAL
(Looking North - Upstation)



STAGE 2 CONSTRUCTION
(Looking North - Upstation)



USER NAME = m.jones	DESIGNED - ---	REVISED -
DRAWN - ---	REVISED -	
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PLOT DATE = 11/26/2025	DATE -	REVISED -

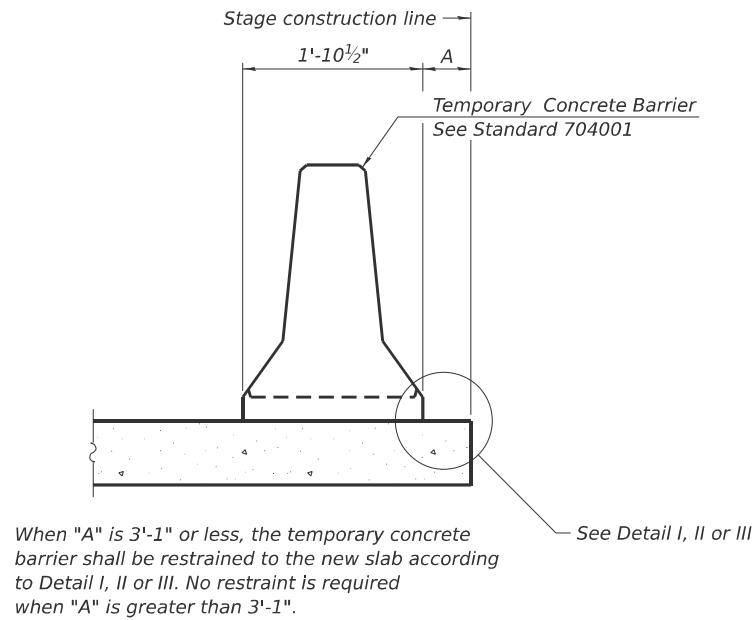
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 - TYPICAL SECTION
STRUCTURE NO. 082-0025

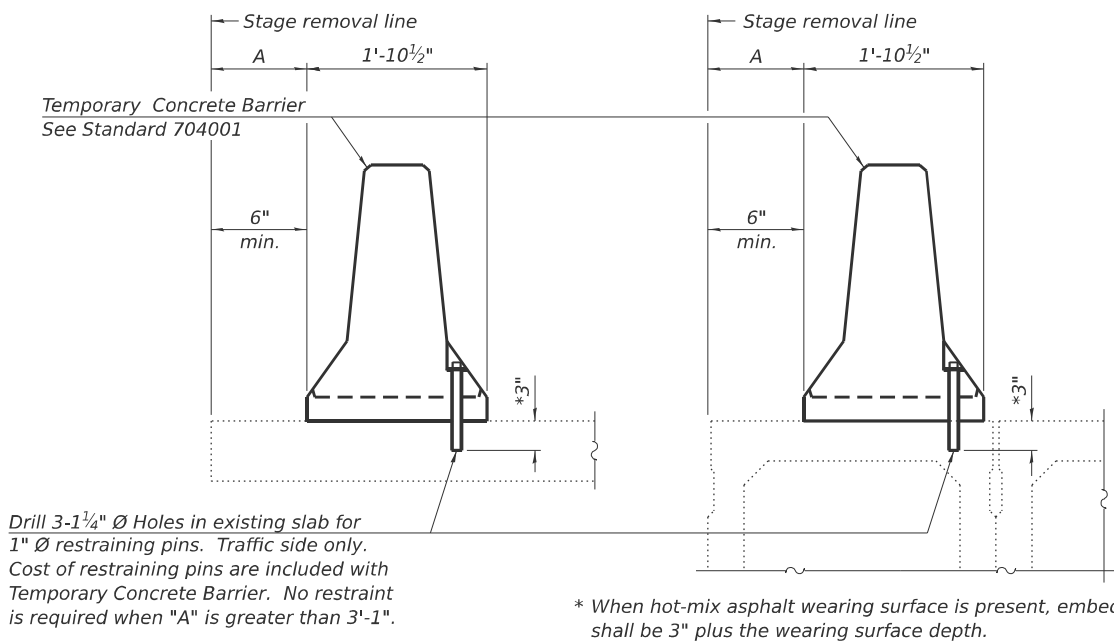
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CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

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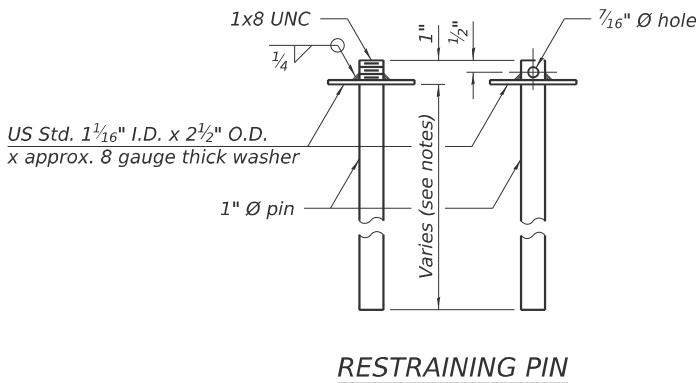


NEW SLAB OR NEW DECK BEAM

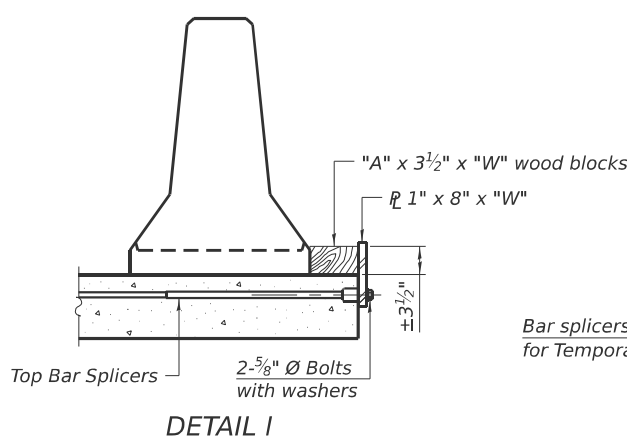


EXISTING SLAB

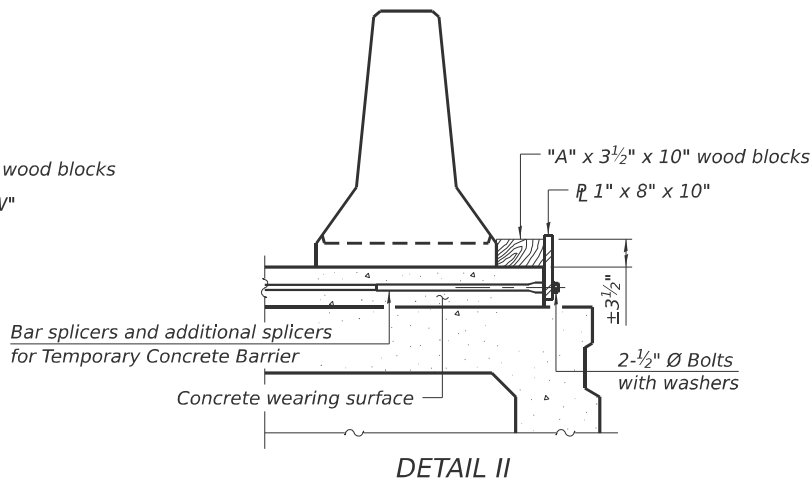
EXISTING DECK BEAM



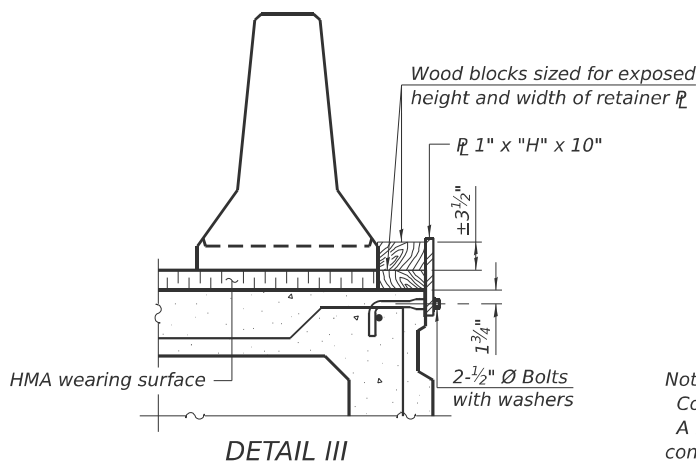
SECTIONS THRU SLAB OR DECK BEAM



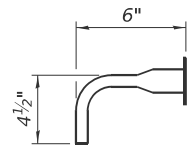
DETAIL I



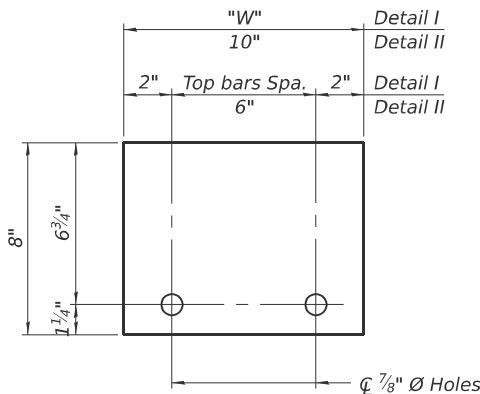
DETAIL II



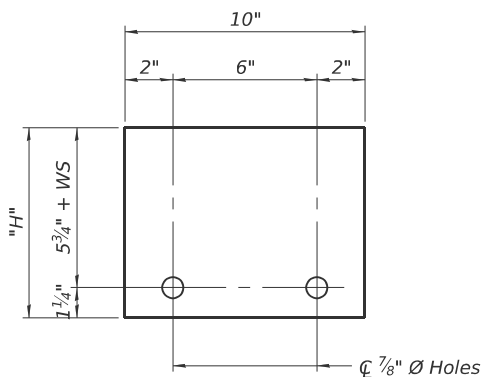
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate $\frac{1}{2}$ of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME	= mjohns
PLOT SCALE	= \$SCALE\$
PLOT DATE	= 11/26/2025

DESIGNED	- ---
DRAWN	- ---
CHECKED	- ---
DATE	- ---

REVISED	- ---
REVISED	- ---
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REVISED	- ---

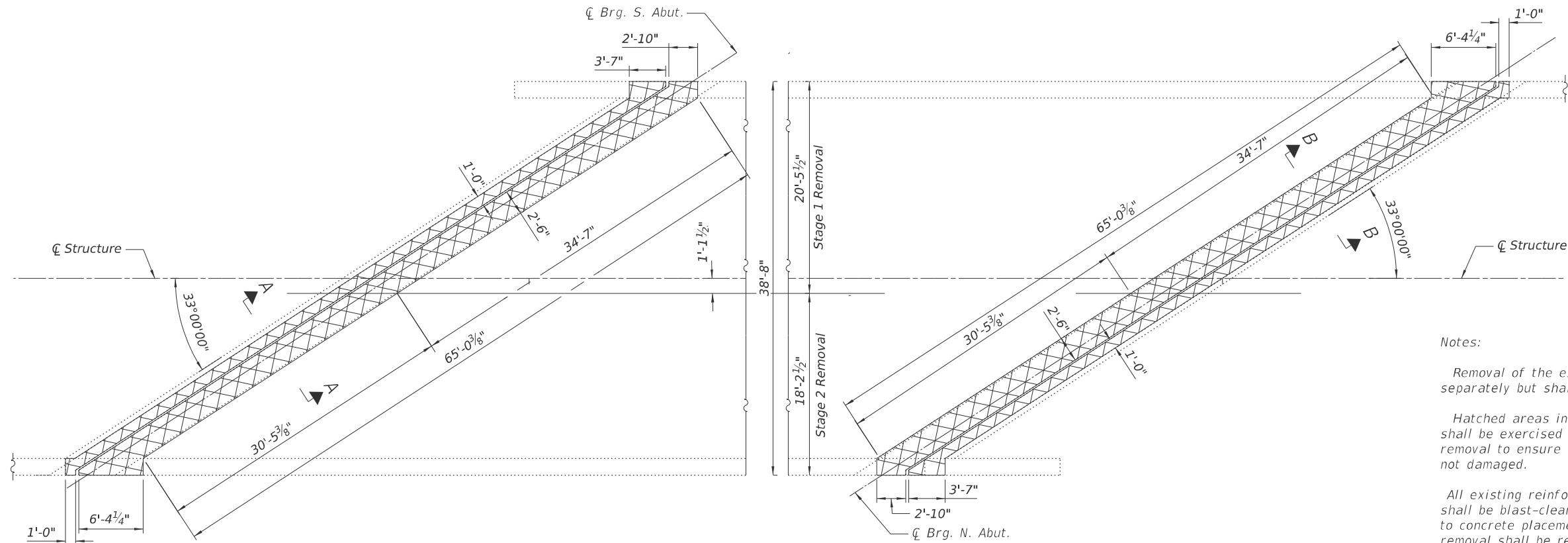
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 082-0025

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	556C
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

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Notes:

Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged.

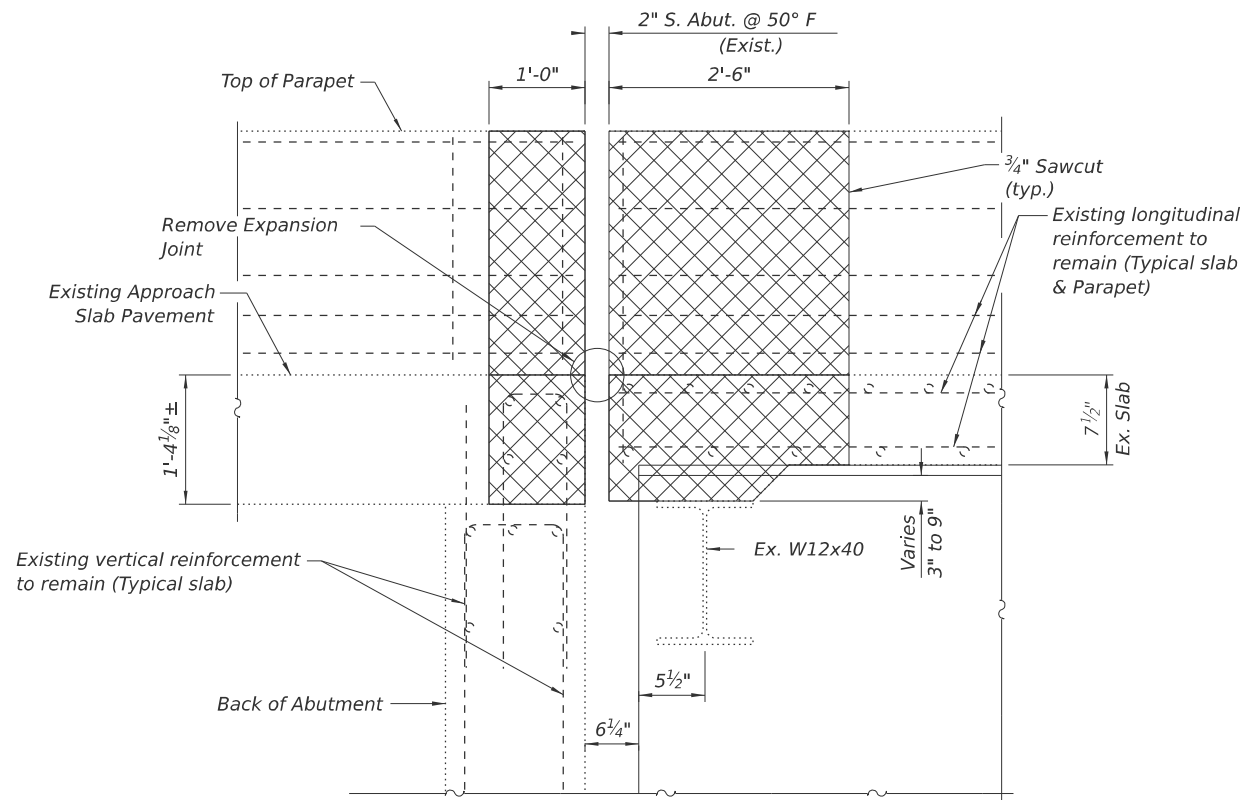
All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System at the Contractors expense.

Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.

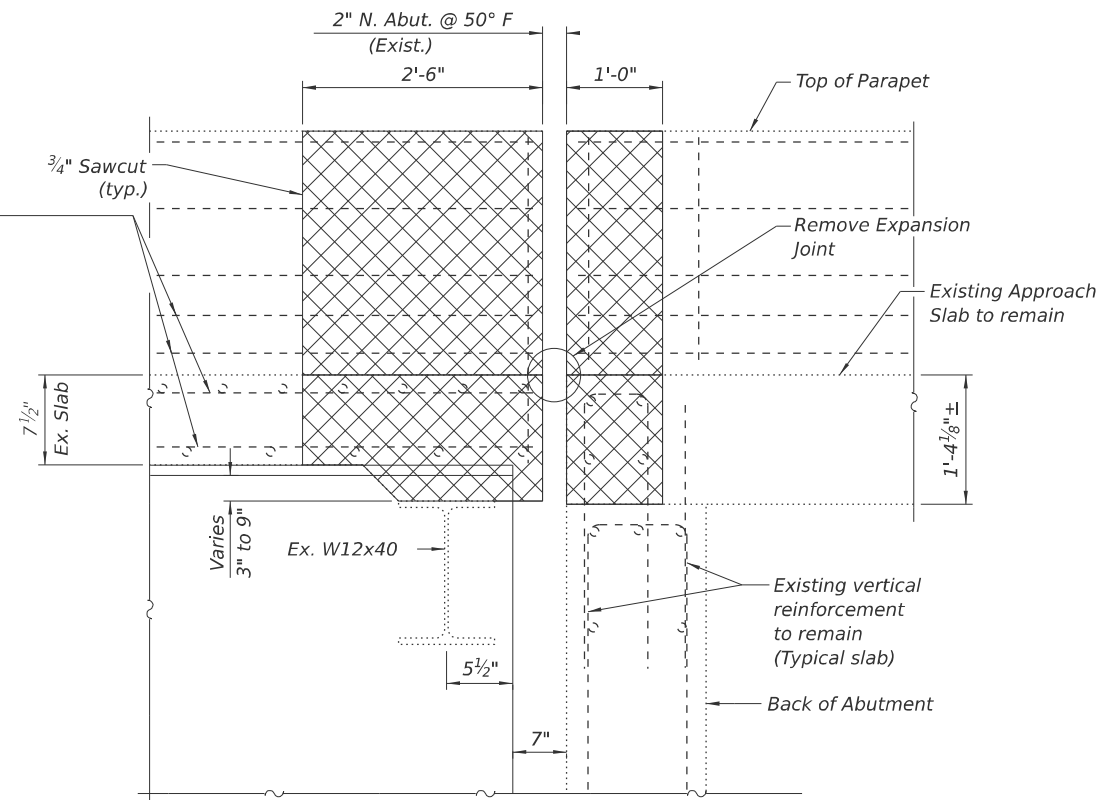
REMOVAL PLAN

N. ABUTMENT

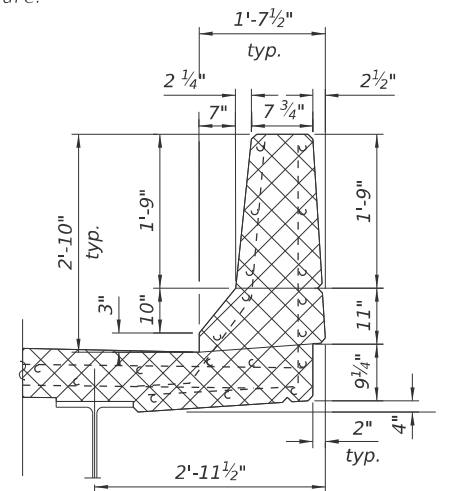
S. ABUTMENT



SECTION A-A
(South Abutment)



SECTION B-B
(North Abutment)



EXISTING PARAPET
SECTION

LEGEND



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	19.6



USER NAME = m.jones	DESIGNED - SEA	REVISED -
DRAWN - MBJ	REVISOR -	
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 11/26/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL
STRUCTURE NO. 082-0025

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 824(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	557
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



#5 Bars = 3'-10"
#6 Bars = 5'-3"

Item	Unit	Total
Concrete Superstructure	Cu. Yd.	11.1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

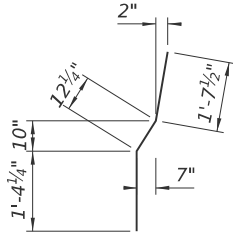
REINFORCEMENT DETAILS
STRUCTURE NO. 082-0025

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

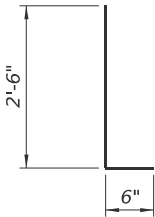
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70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	560
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

SOUTH & NORTH ABUTMENTS
BILL OF MATERIAL

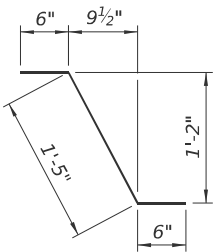
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a11(E)	12	#6	6'-0"	_____
d10(E)	48	#5	3'-0"	┐
d11(E)	24	#5	2'-5"	┐
d12(E)	24	#5	3'-10"	┐
h10(E)	16	#6	32'-3	_____
x10(E)	132	#5	2'-8"	┐
v10(E)	14	#5	3'-10"	_____
v11(E)	12	#5	4'-0"	_____
Reinforcement Bars, Epoxy Coated			Pound	3080
Bar Splicer			Each	28



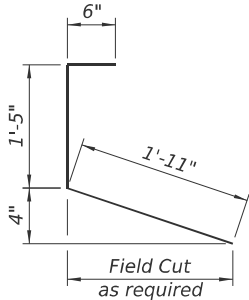
BAR v11(E)



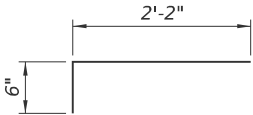
BAR d10(E)



BAR d11(E)



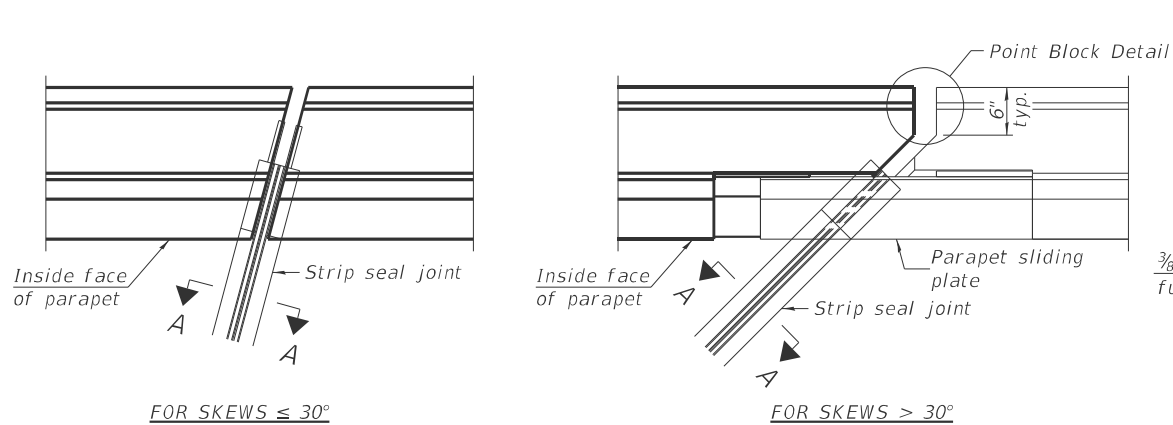
BAR d12(E)



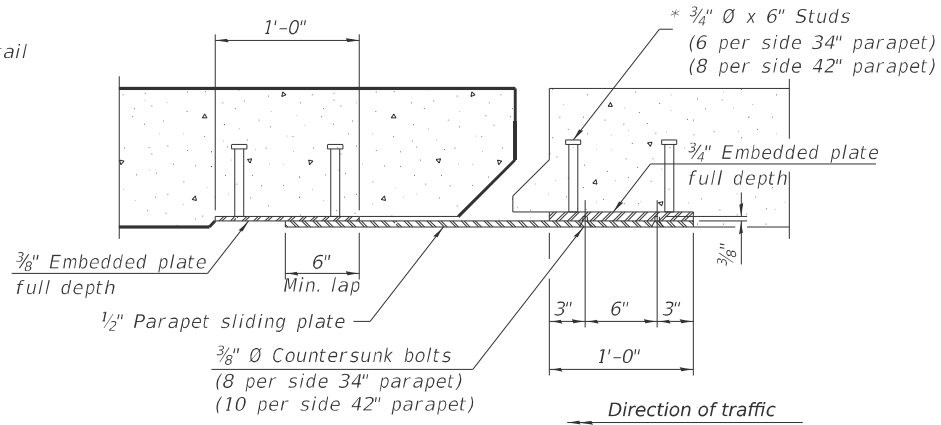
BAR x10(E)

Notes:
For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. 11.

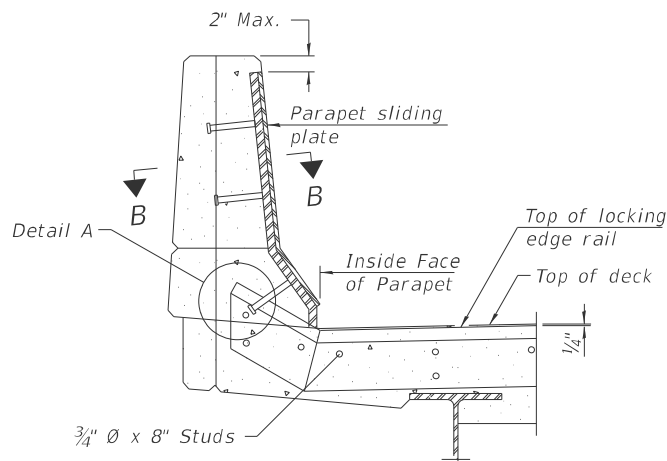
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PLAN AT PARAPET

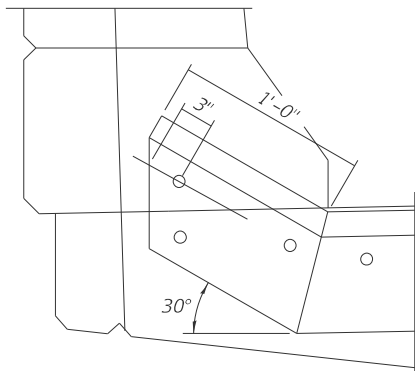


SECTION B-B

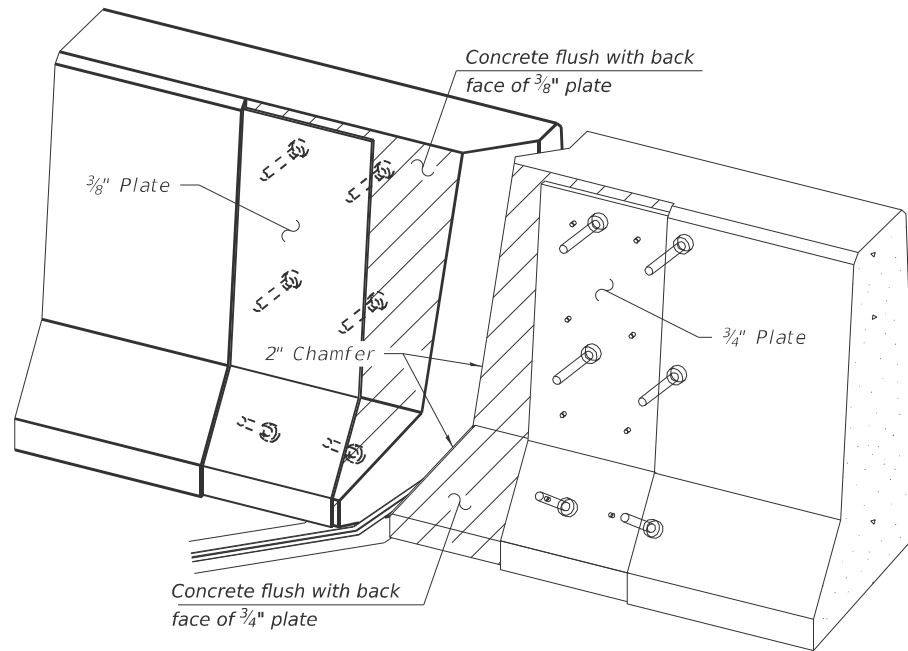


ELEVATION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

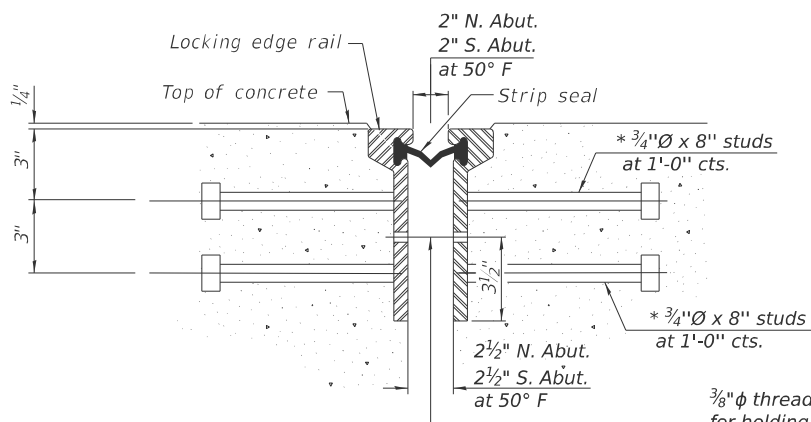


DETAIL A



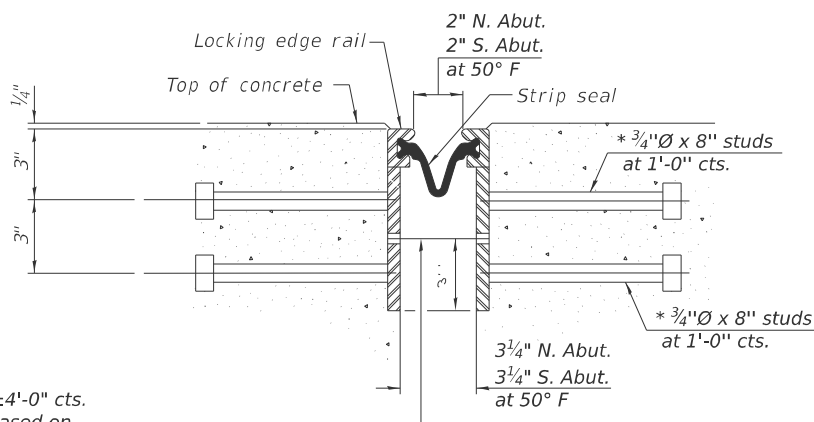
TRIMETRIC VIEW

(Showing embedded plates only)

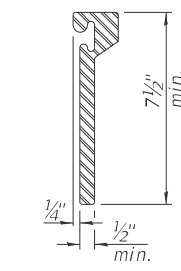


SHOWING ROLLED RAIL JOINT

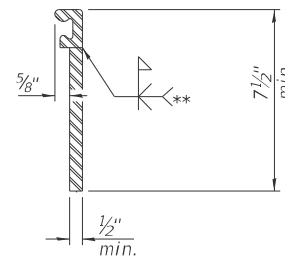
3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



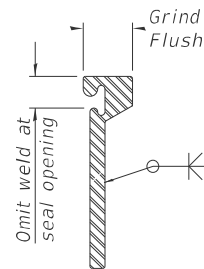
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

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

LOCKING EDGE RAILS

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	134.0

EJ-SS (TALL WITH GUTTER)

10-1-19

SECTION A-A

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 082-0025

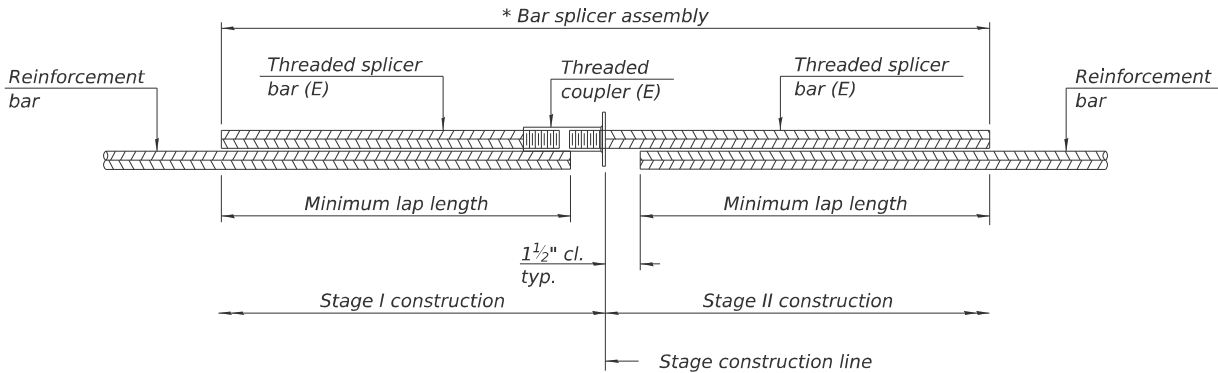
SCALE: NTS SHEET 11 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 824(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	561
				CONTRACT NO. 76E84
ILLINOIS FED. AID PROJECT				



USER NAME = m.jones	DESIGNED - SEA	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MBJ	REVISED -
PLOT DATE = 11/26/2025	CHECKED - SEA	REVISED -
	DATE - 2025/10/03	REVISED -

MODEL: \$MODELNAME\$
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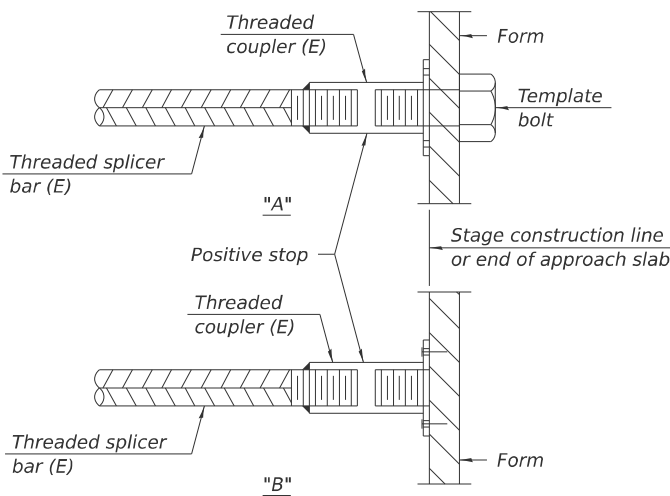
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + 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
S. Abut.	5	10	3'-10"
S. Abut.	6	4	4'-5"
N. Abut.	5	10	3'-10"
N. Abut.	6	4	4'-5"

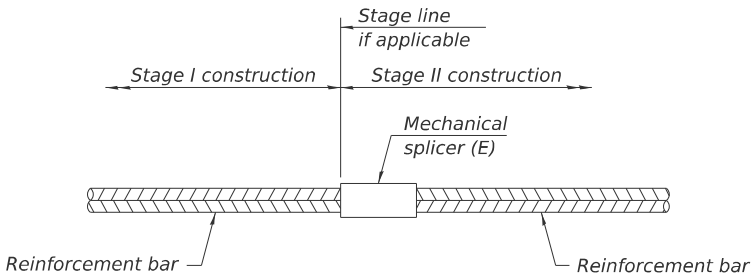


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

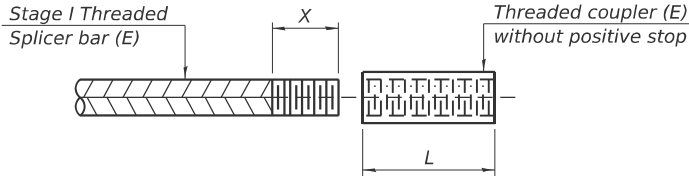
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(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.

BSD-1

4-4-2025



USER NAME = mjones	DESIGNED - ---	REVISED -
	DRAWN - ---	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - ---	REVISED -
PLOT DATE = 12/3/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICERS
STRUCTURE NO. 082-0025

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

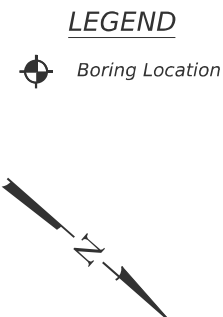
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	561A
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

17'-6" x 12'

19' x 10'

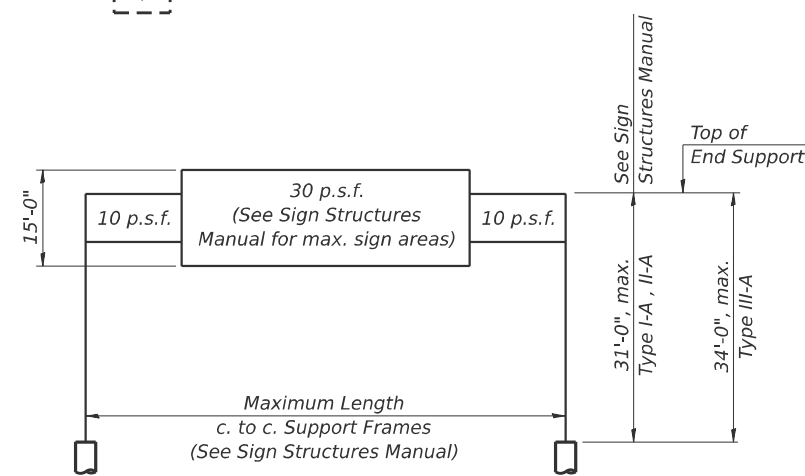
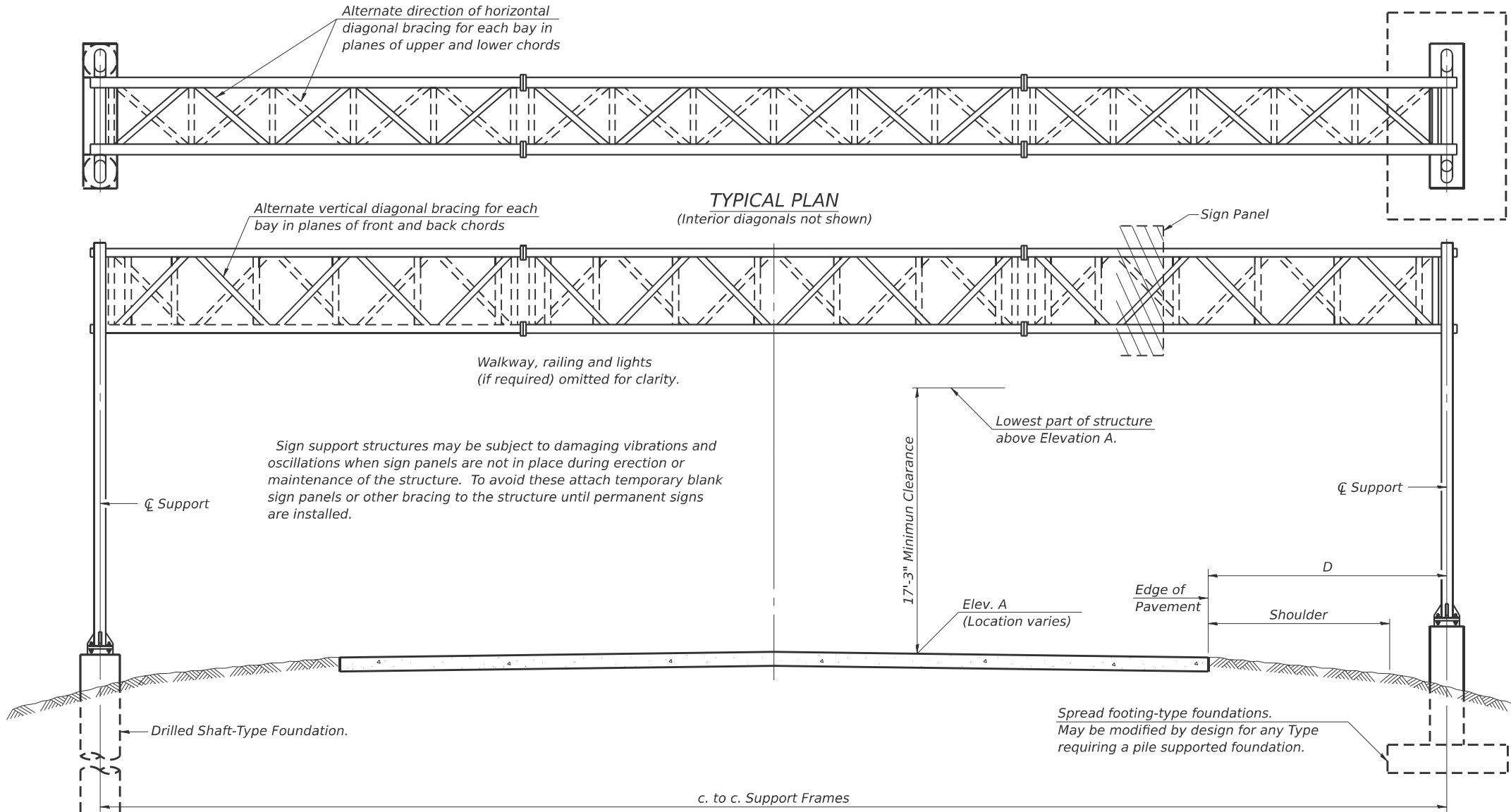


ELEVATION
(Looking West at face of signs)



ITEM	UNIT	TOTAL
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	2

MODEL: S:\MODEL\NAMES
FILE NAME: p:\r\jacobs-us-va-pw-bentley.com\jacobs-us-va-pw-bentley.com\Documents\13152206.02 - ILDOT - I-55 I-70 Rehabilitation\30 Project Data\PID\ST\ABNA\SW\850821055L0043-002-OHSS-GPE.dgn



DESIGN WIND LOADING DIAGRAM
Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL PLAN
(Interior diagonals not shown)

TYPICAL ELEVATION
(Looking at Face of Signs**)

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
8S0821055L004.3	129+94.00	II-A	110'-0"	411.06	32'-0"	12'-0"	440

** Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

*** Granular soil is present. Temporary casing may be required to maintain shaft stability. Cost of temporary casing shall be included with pay item for Drilled Shaft Concrete Foundations.

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
 $f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	110
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	44
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	24.6

OS-A-1

5-15-2023



USER NAME = mjohns	DESIGNED - SEA	REVISED -
	DRAWN - MBJ	REVISED -
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PLOT DATE = 12/4/2025	DATE - 2025/10/03	REVISED -

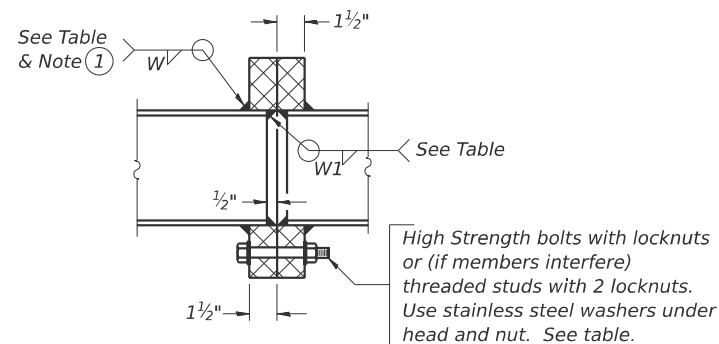
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM TRUSS SUPPORTS
STRUCTURE NO. 8S0821055L004.3

SCALE: NTS SHEET 2 OF 14 SHEETS STA. TO STA.

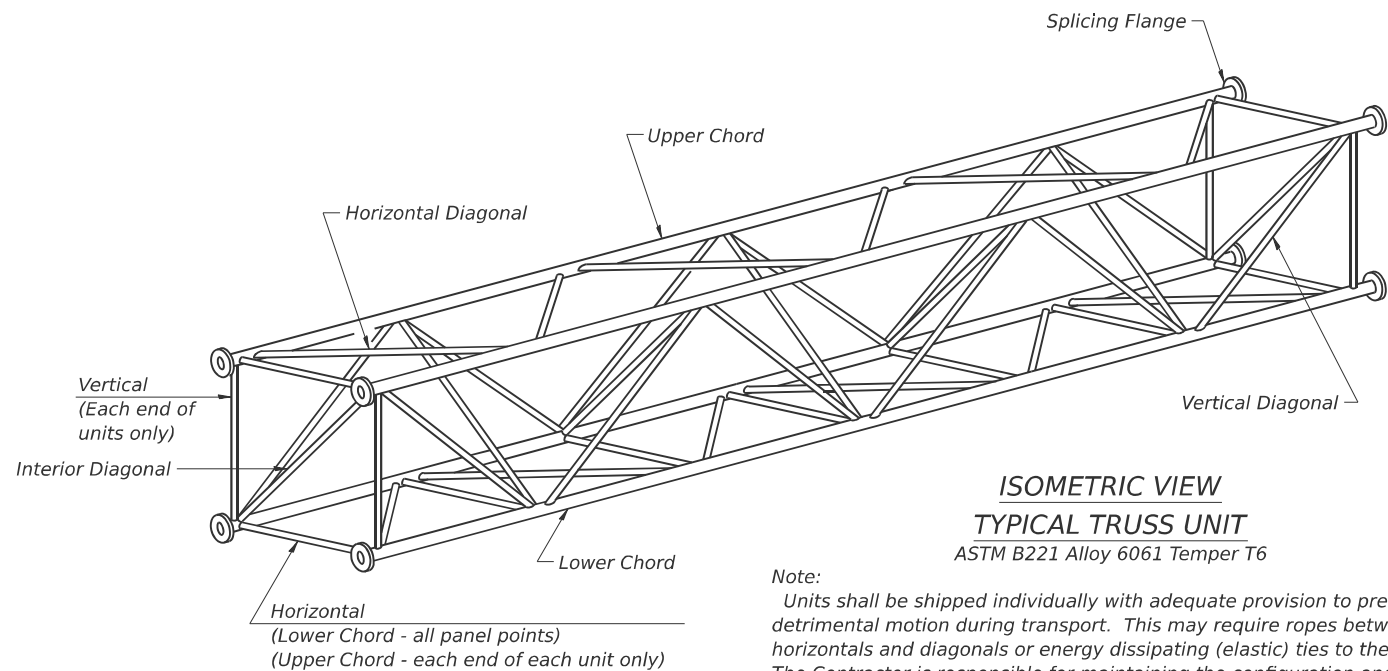
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70	Section 824(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	563
				CONTRACT NO. 76E84
ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

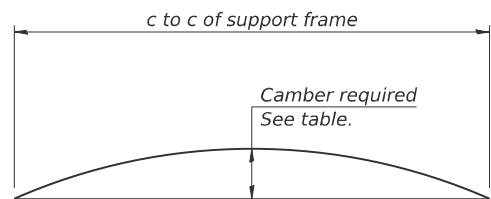
[illegible]

SECTION B-B

- ① *Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.*



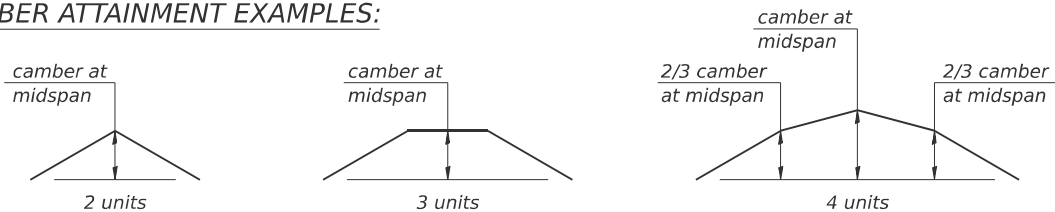
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



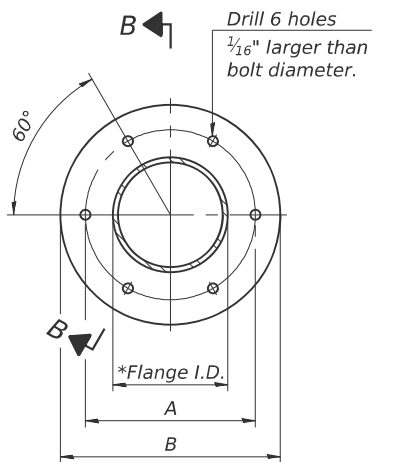
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

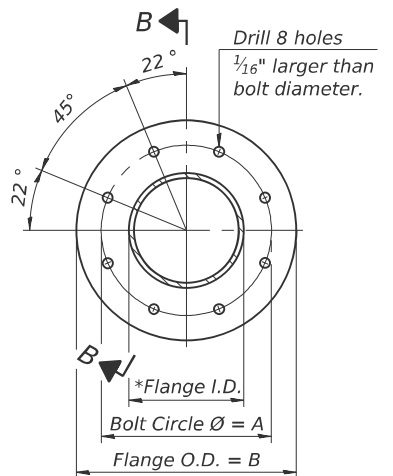
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



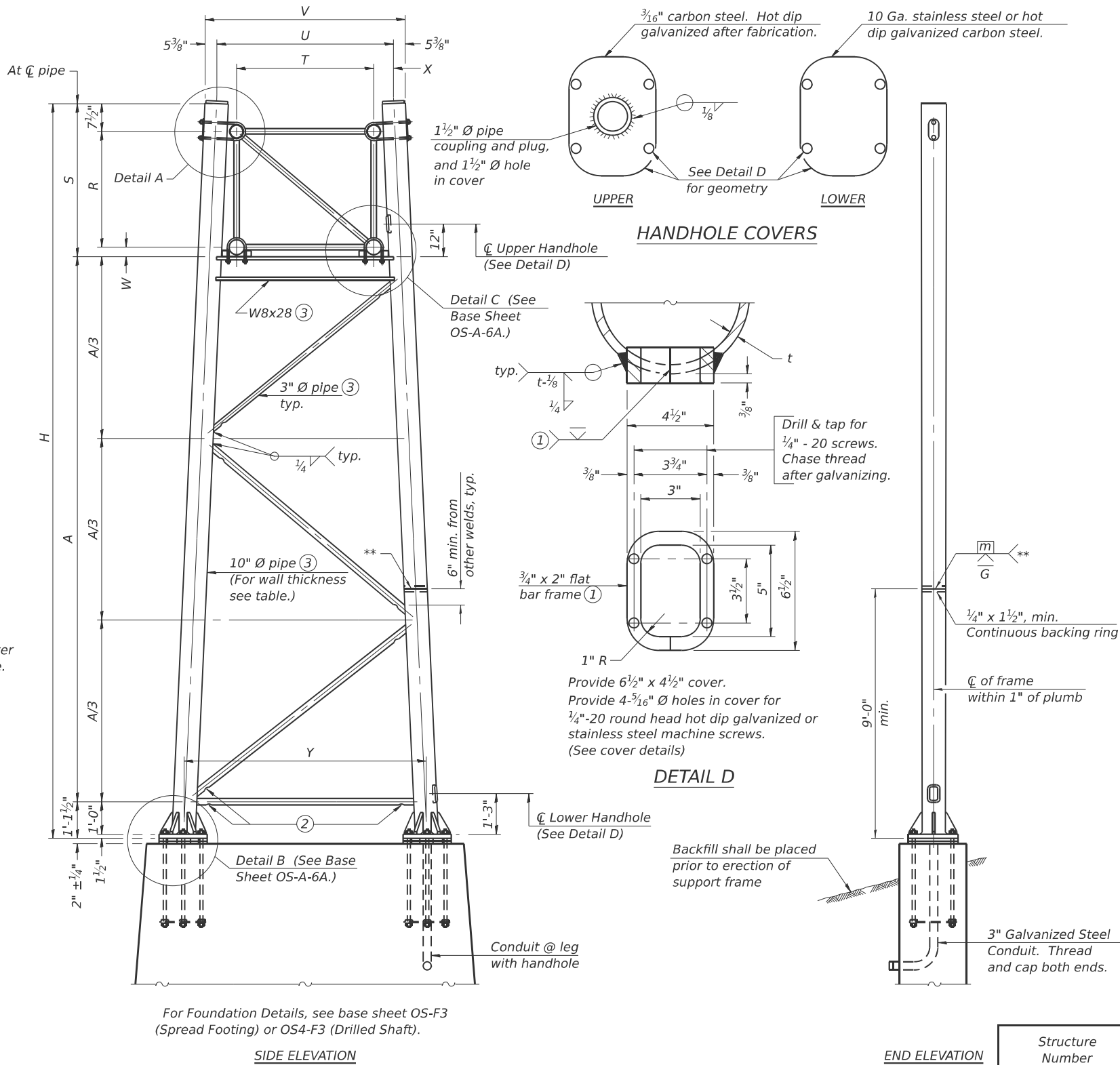
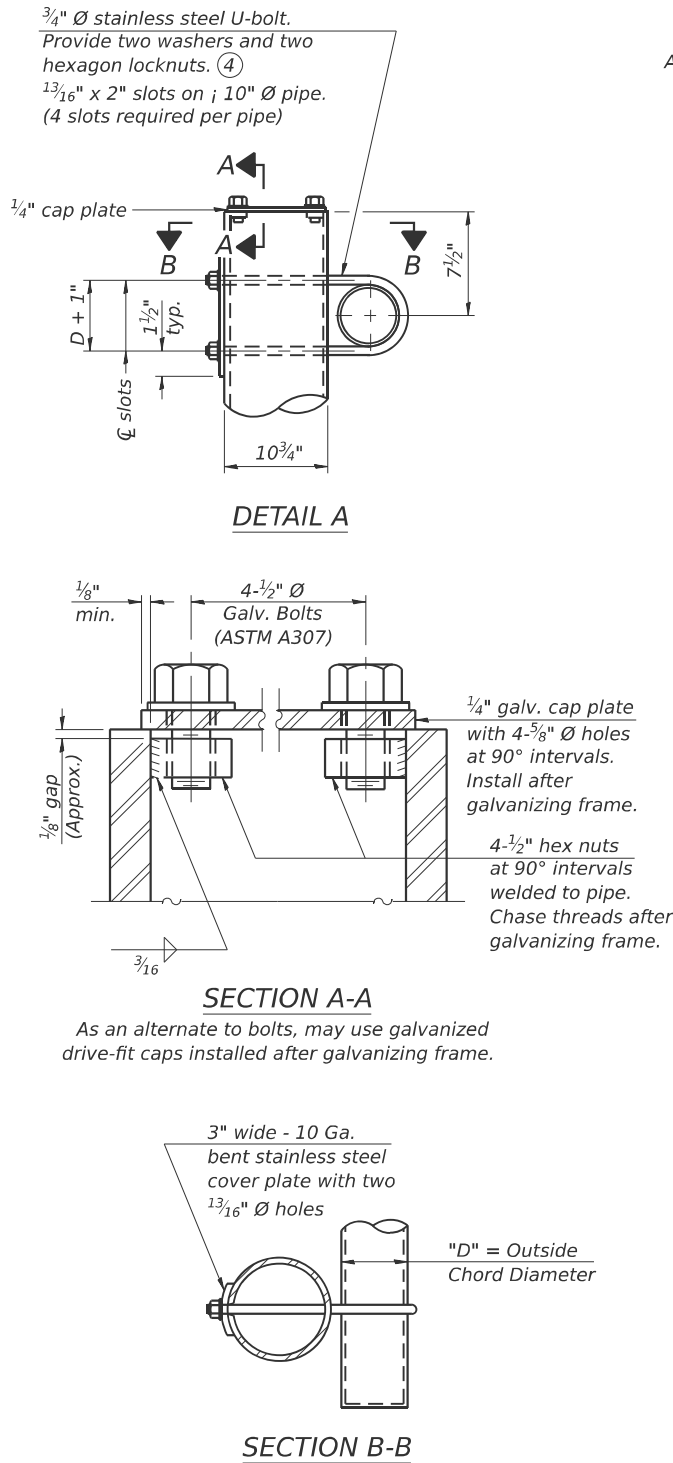
TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

*To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".

MODEL: \$MODELNAME\$
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Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:

- a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

10" $\varnothing$ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 $\frac{1}{2}$ "	4'-0"	5'-6"	6'-4 $\frac{3}{4}$ "	4"	9"	8'-3"
II-A ⑤	5'-3"	6'-3 $\frac{1}{4}$ "	4'-6"	6'-1"	6'-11 $\frac{3}{4}$ "	4 $\frac{3}{4}$ "	9 $\frac{1}{2}$ "	8'-3"

OS-A-6

5-15-2023



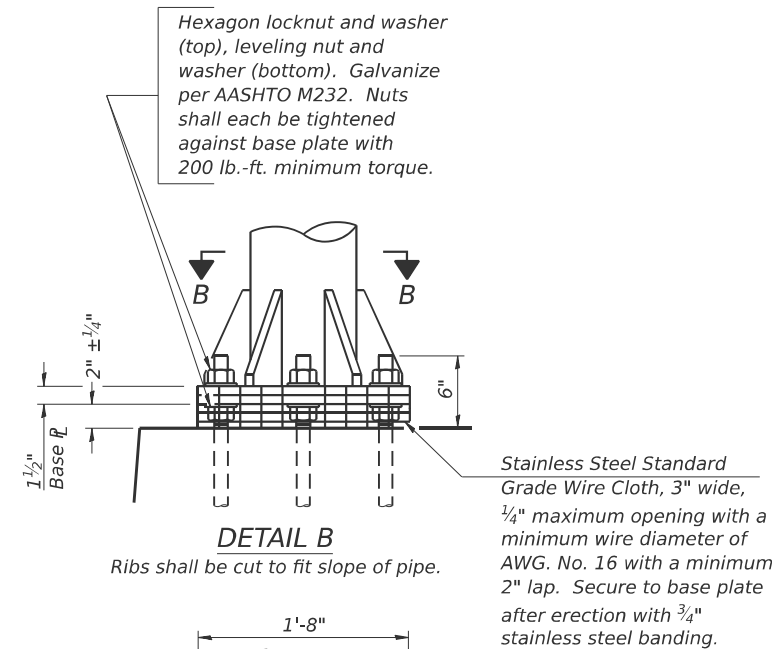
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DRAWN - MBJ	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - SEA	REVISED -
PLOT DATE = 12/3/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPPORT FRAME DETAILS FOR ALUMINUM TRUSS
STRUCTURE NO. 8S0821055L004.3

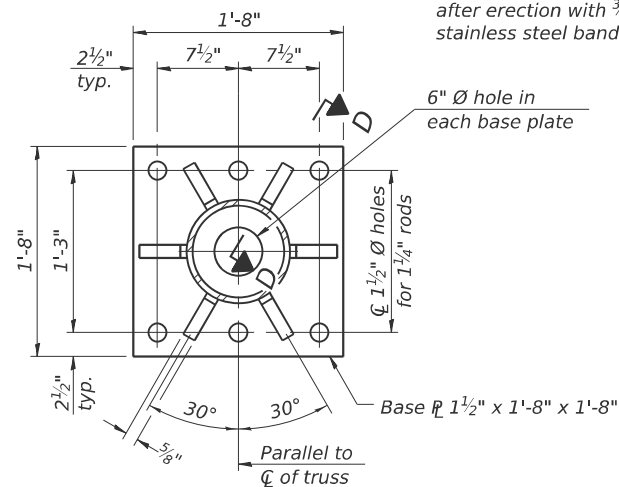
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 82(5.6) RS-2, 60-6 RS-2	MADISON & ST. CLAIR	678	567
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

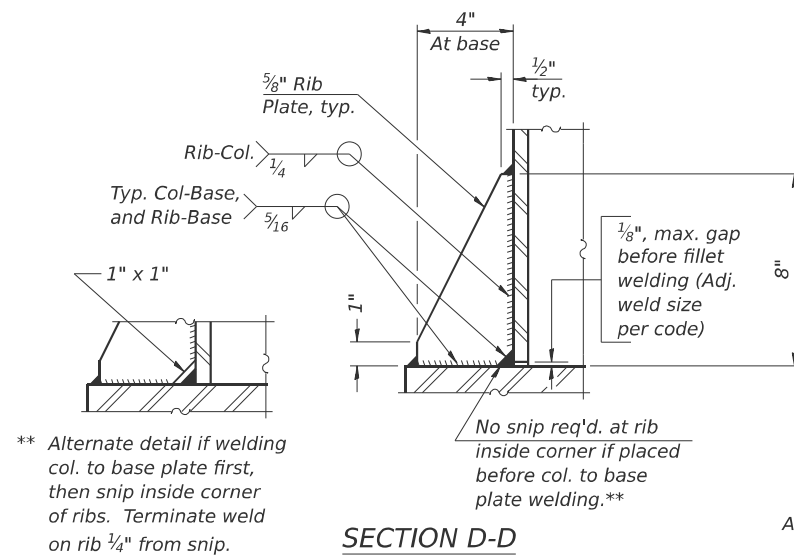


DETAIL B

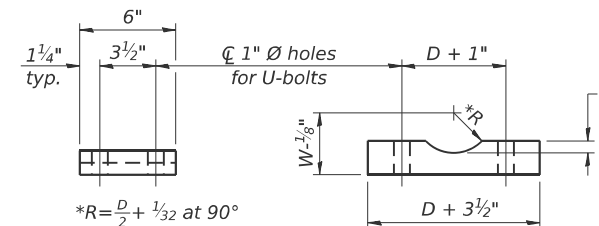
Ribs shall be cut to fit slope of pipe.



SECTION B-B



SECTION D-D

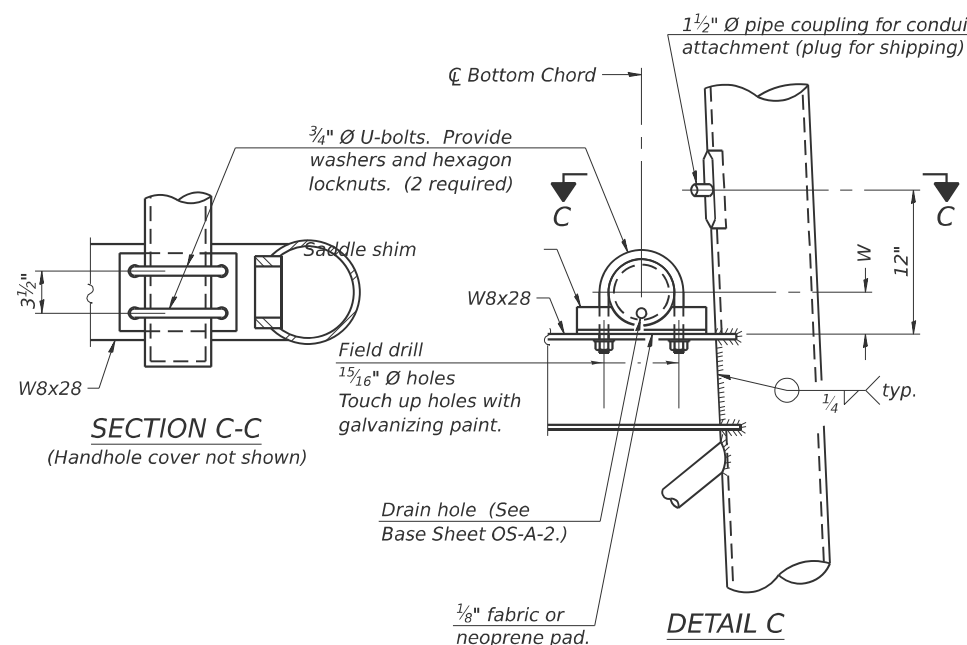


*D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.*

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T6
(4 required per sign truss)

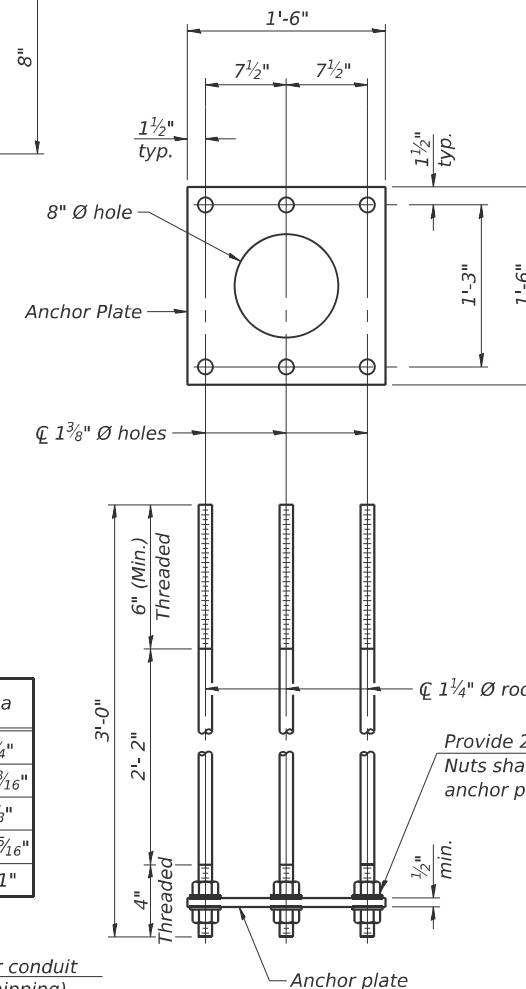
Truss Chord Nominal Dia.	a
5"	$\frac{3}{4}$ "
5½"	$1\frac{3}{16}$ "
6"	$\frac{7}{8}$ "
6½"	$1\frac{5}{16}$ "
7"	1"



SECTION C-C

(Handhole cover not shown)

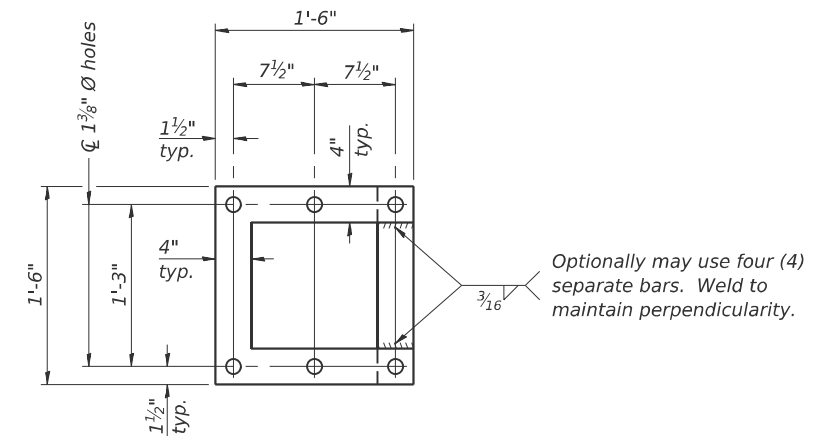
DETAIL C



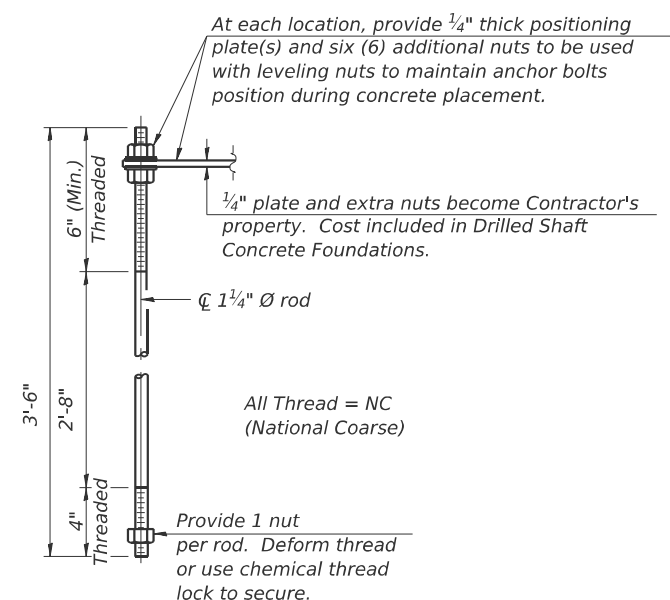
ANCHOR ROD DETAIL

Spread Footing Foundation

Spread Footing Foundation



POSITIONING PLATE(S)



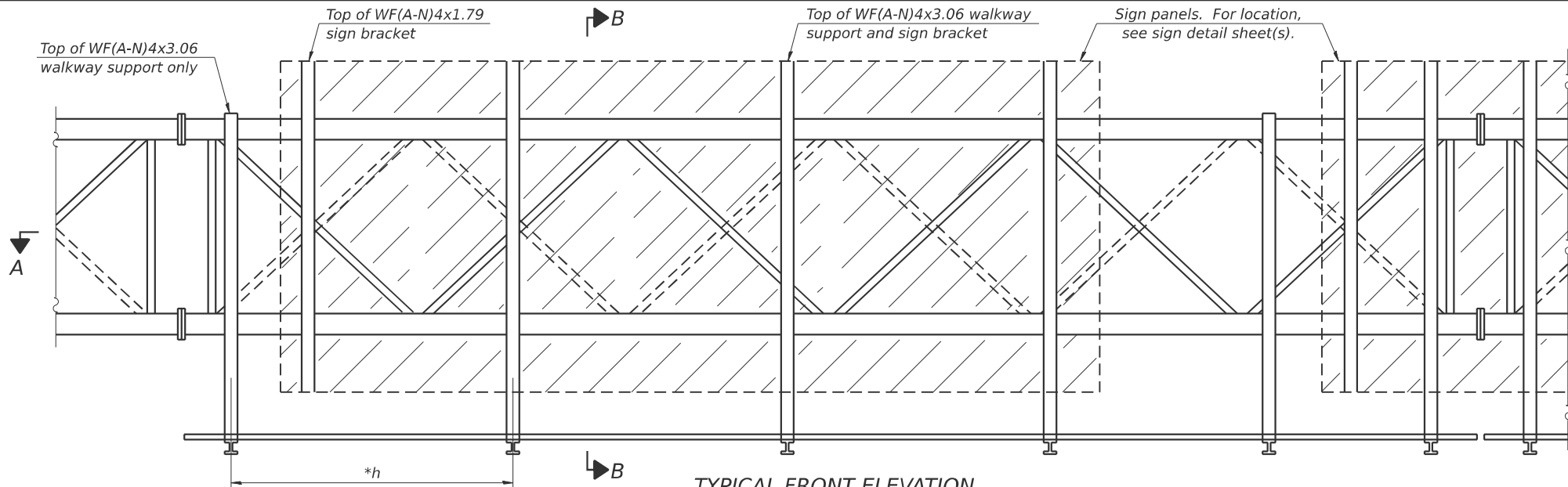
ANCHOR ROD DETAIL
Drilled Shaft Foundation

Drilled Shaft Foundation

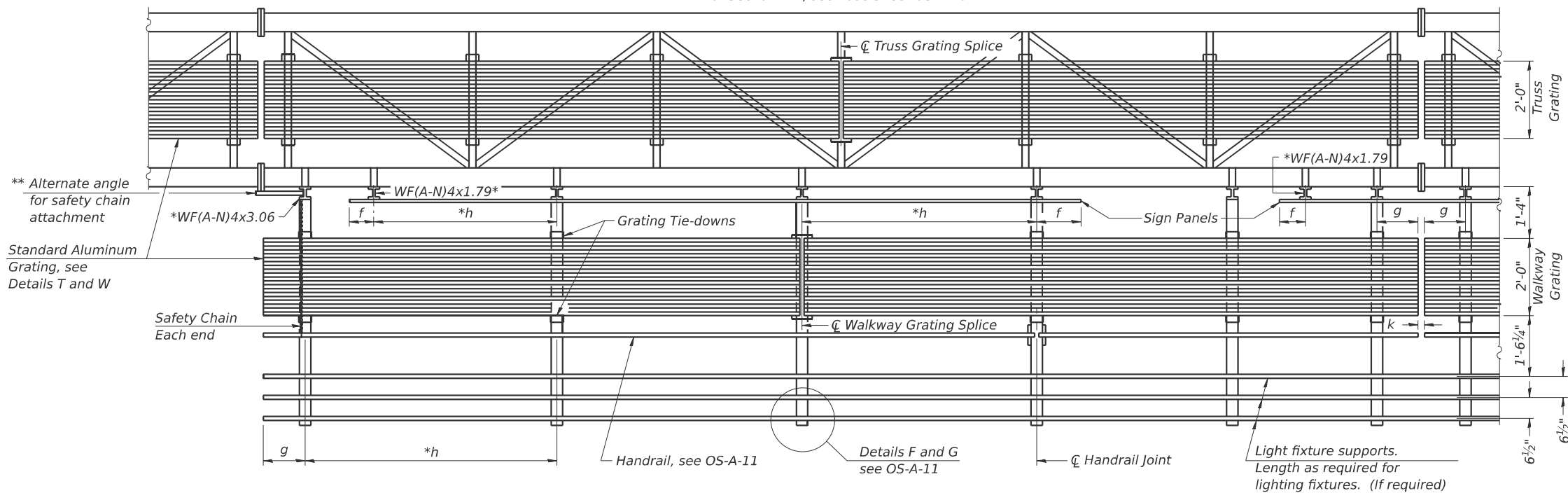
Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

10" Ø PIPE SUPPORT FRAME DETAILS

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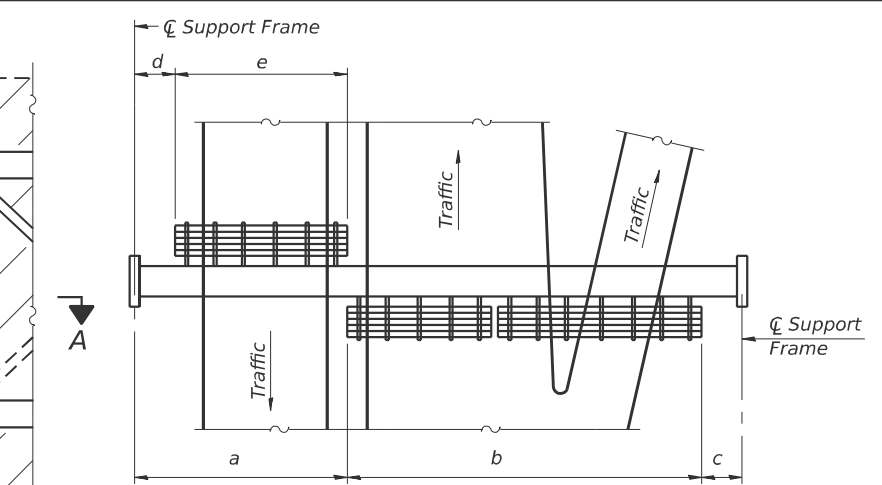
TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Handrail joints, grating, and light support splices placed as needed.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
850821055L004.3	129+94.00	38'-0"	44'-0"	28'-0"	-	-	44'-0"



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

- Notes:
- * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to Cl of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to Cl of nearest support bracket)
h = 6'-0" maximum (Cl to Cl sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
For Handrail Details see Base Sheet OS-A-11.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses.
Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary ±1/2" based on available standard widths.

OS-A-9

5-15-2023



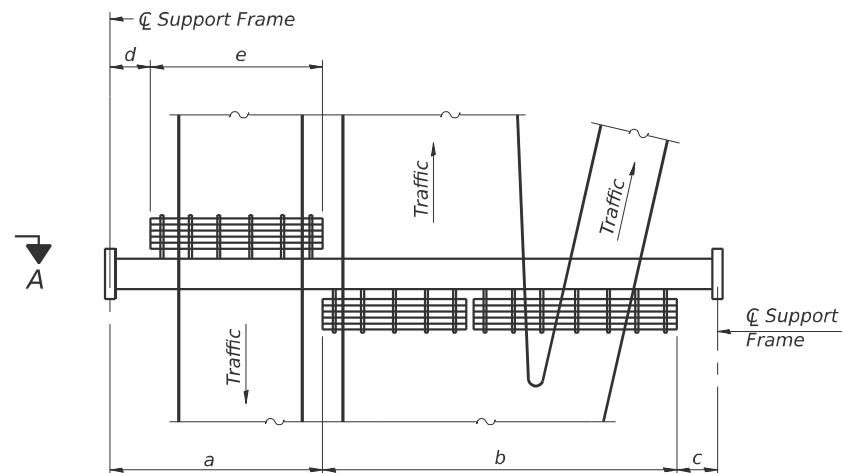
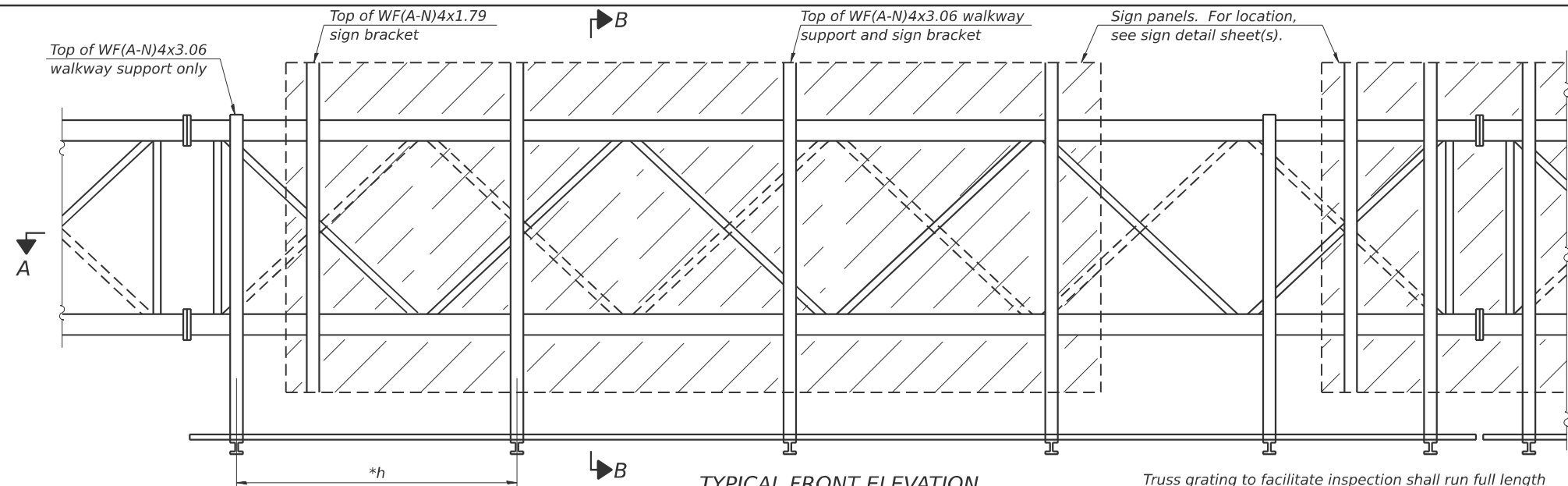
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PLOT DATE = 12/3/2025	CHECKED - SEA	REVISED -
	DATE - 2025/10/03	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

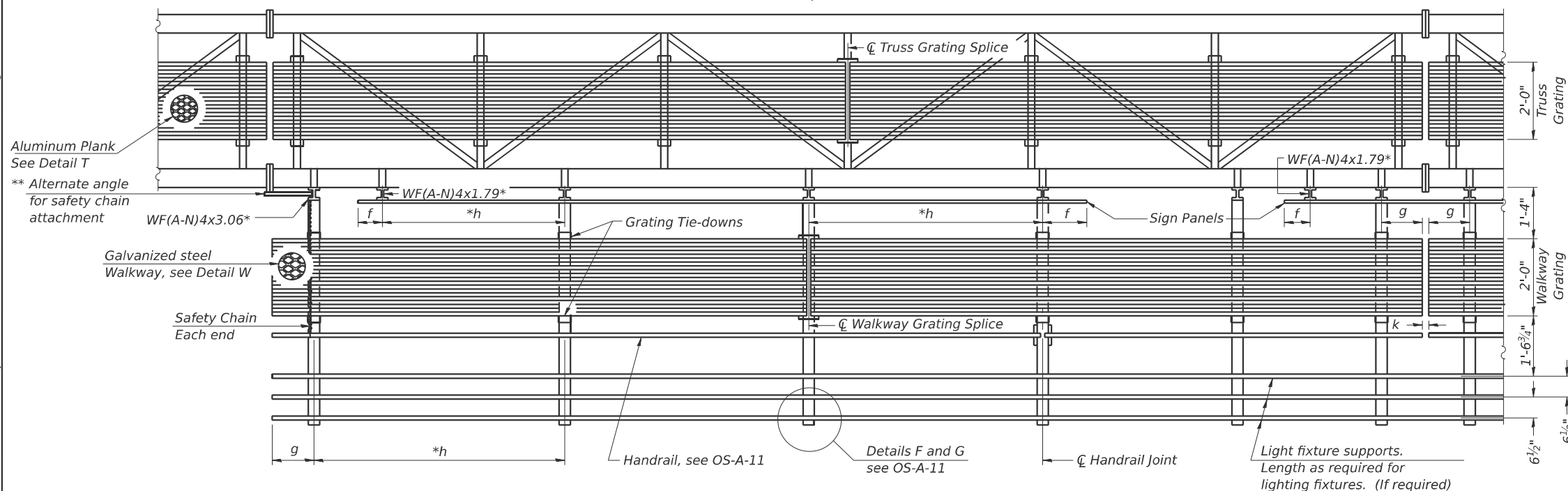
**ALUMINUM WALKWAY DETAILS
STRUCTURE NO. 850821055L004.3**

SCALE: NTS SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section 824(5.6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	569
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

*Note:
Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.*

Walkway and Truss Grating width dimensions are nominal and may vary $\pm \frac{1}{2}$ " based on available standard widths.

[illegible]

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to Ⓞ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to j of nearest support bracket)
h = 6'-0" maximum (Ⓞ to Ⓞ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

**** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.**

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
For handrail details see base sheet OS-A-11.



SOIL BORING LOG

Page 1 of 1

Date 2/27/23

ROUTE FAI Route 70 (I-55/70) DESCRIPTION I-55 / I-70 from I-64 Interchange to Fairmount Ln LOGGED BY KEG

SECTION 82-(5,6)RS-2, 60-6RS-2 LOCATION Fairmont City, IL, Latitude 38.6480917°, Longitude -090.1246083°

COUNTY St. Clair DRILLING METHOD HSA / Mud Rotary Wash at 16' HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	
ASHPALT - 5"	408.2											
SILTY CLAY FILL - Brown, Medium Stiff, w/ Some Gravel + Asphalt Debris		5										
		10	3.0	18								
		8	P									
	405.2											
SILTY CLAY - Brown, Medium Stiff, Moist		5										
LL=45%, PL=19%, PI=26%		4	0.2	25								
		4	S									
	402.7											
SAND - Gray, Poorly Graded, Fine, Medium Dense		5										
		2	-	8								
		4										
No Recovery		3										
		2	-									
		2										
	378.7											
End of Boring												
Becomes Wet, Loose, w/ Silt + Gravel		3										
Cc=1.33, Cu=2.81; 6% Gravel, 81.7% Sand, 12.3% Silt/Clay		4	-	17								
		1										
		2										
		3	-	23								
		5										
Becomes Brown + Gray, Coarse, Medium Dense, Poorly Graded												
Changes to Mud Wash, Gray + Brown Sand, Well Graded, Loose		WH										
		2	-	22								
		2										
		9										
		11	-	19								
		11										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 2/28/23

ROUTE FAI Route 70 (I-55/70) DESCRIPTION I-55 / I-70 from I-64 Interchange to Fairmount Ln LOGGED BY KEG

SECTION 82-(5,6)RS-2, 60-6RS-2 LOCATION Fairmont City, IL, Latitude 38.6479417°, Longitude -090.1246583°

COUNTY St. Clair DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
		(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	
ASHPALT - 5"	404.0											
SILT FILL - Brown, Medium Stiff, w/ Gravel + Asphalt Debris		7										
Poor Recovery		12	1.0	15								
		11	P									
	401.0											
CLAYEY SILT - Brown, Stiff, Moist		1										
		1	0.8	33								
		2	P									
LL=25%, PL=19%, PI=6%		1										
		1	0.1	31								
		2	B									
	396.0											
SAND - Brown, Very Fine, Poorly Graded, Medium Dense		2										
		4	-	24								
		3										
	374.5											
End of Boring												
CLAY - Gray + Brown, Medium Stiff, w/ Some Sand		WH										
LL=58%, PL=26%, PI=32%;		1	0.2	43								
		3	B									
SAND - Brown, Fine, Poorly Graded, Moist												
		1										
		5	-	25								
		3										
	392.5											
Becomes Gray + Brown, Coarse, Poorly Graded,		2										
		4	-	14								
		10										
		10										
		10	-	12								
		14										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: SMOELNAMES
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DRAWN - MBJ	REVISED -	
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PLOT DATE = 12/3/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 8S082I055L004.3

SCALE: NTS SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	575
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

SIGN TRUSS REPAIR SCHEDULE

Structure Number	Type	Locking Pin Repair A	Tighten Anchor Bolts (Span) Repair B	Repair / Replace Rodent Screen Repair C	Handhole or Utility Cover Adjusted Repair D	Replace Safety Chain Repair E	Replace / Tighten U-Bolt Repair F	Removal of Sign Lighting No Salvage Repair G	Remove Electric Service Repair H	Comments
8C082I055L002.7	Cantilever	1	2	-	1	-	-	-	-	
8S082I055L003.0	Span	-	1	-	-	-	-	-	-	
8S082I055R003.0	Span	-	3	2	1	1	2	-	-	
8S082I055R003.6	Span	-	2	1	4	-	-	2	1	
8S082I055L003.6	Span	-	1	-	-	-	-	-	-	
8S082I055R003.7	Span	3	-	-	-	2	-	1	1	
8F082I055L005.2	Butterfly	-	-	-	-	-	1	-	-	
Totals		4	9	3	6	3	3	3	2	

Repair A: Repair Handhole Locking Pin Connections - OS-A-11
Repair B: Tighten Support Anchor Bolt - Span OS-A-6A
Repair C: Repair / Replace Rodent Screen - OS-A-6A
Repair D: Handhole to be Adjusted - OS-A-6
Repair E: Safety Chain - OS-A-11
Repair F: Replace / Tighten U-Bolt - OS-A-6 (Detail A)
Repair G: Removal of Sign Lighting No Salvage
Repair H: Remove Electric Service

Notes:
Removal of Existing Sign Lighting Units and Terminate
Electrical Service to Truss on all Sign Structures Noted.

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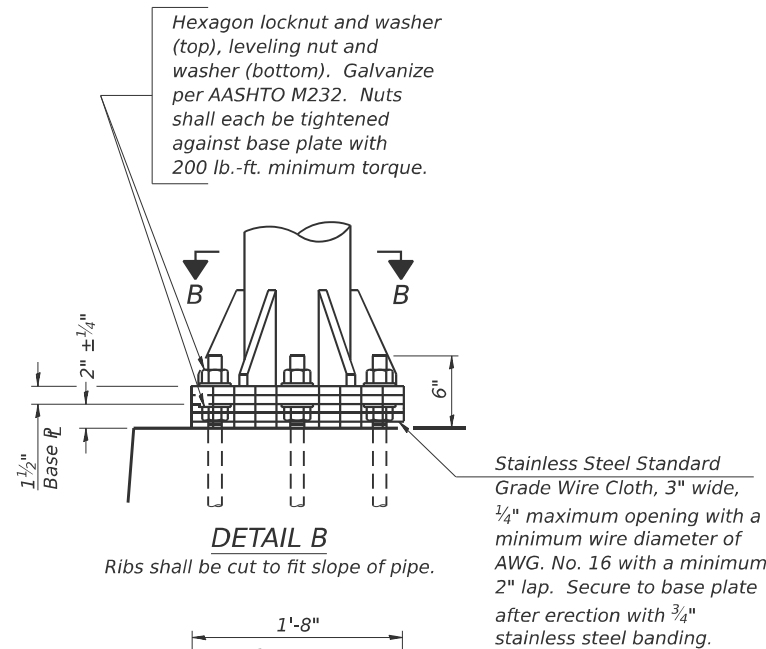


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	DRAWN - MBJ	REVISED -
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PLOT DATE = 12/3/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN TRUSS REPAIR SCHEDULE			
SCALE: NTS	SHEET 1 OF 4 SHEETS	STA.	TO STA.

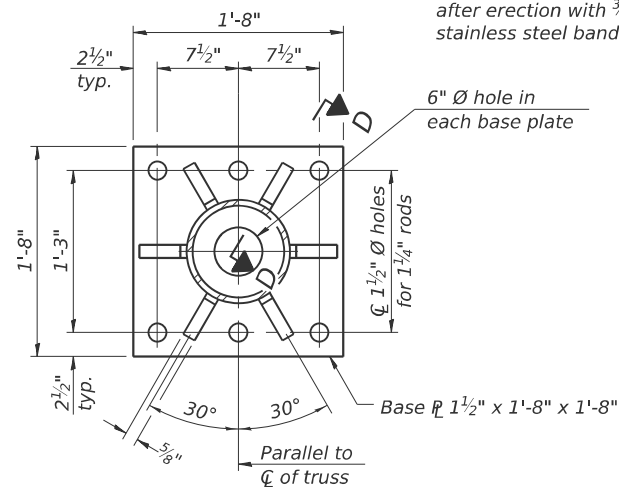
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70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	576
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



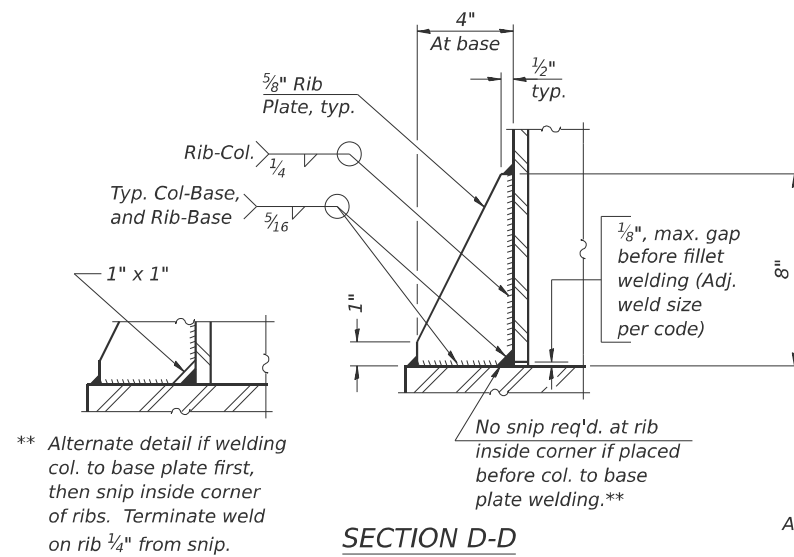
DETAIL B

Ribs shall be cut to fit slope of pipe.

*Stainless Steel Standard
Grade Wire Cloth, 3" wide,
1/4" maximum opening with a
minimum wire diameter of
AWG. No. 16 with a minimum
2" lap. Secure to base plate
after erection with 3/4"
stainless steel banding.*

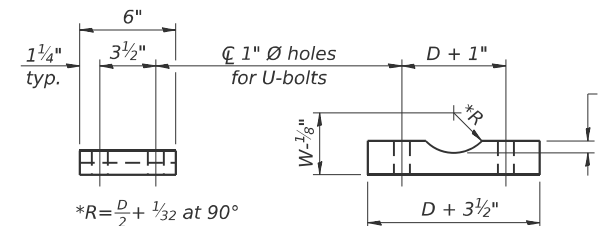


SECTION B-B



SECTION D-D

**** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib $\frac{1}{4}$ " from snip.**

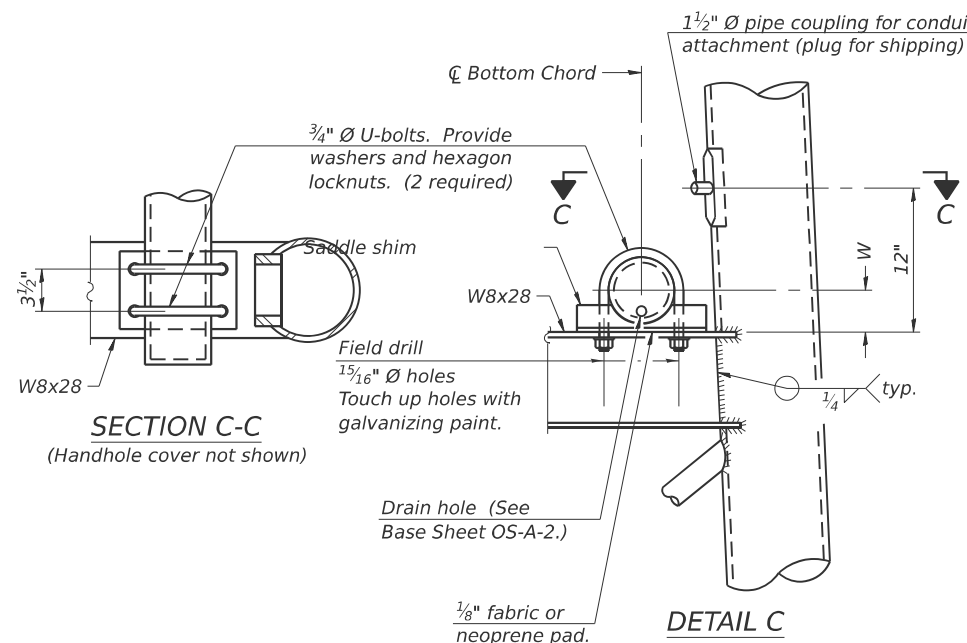


*D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.*

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T6
(4 required per sign truss)

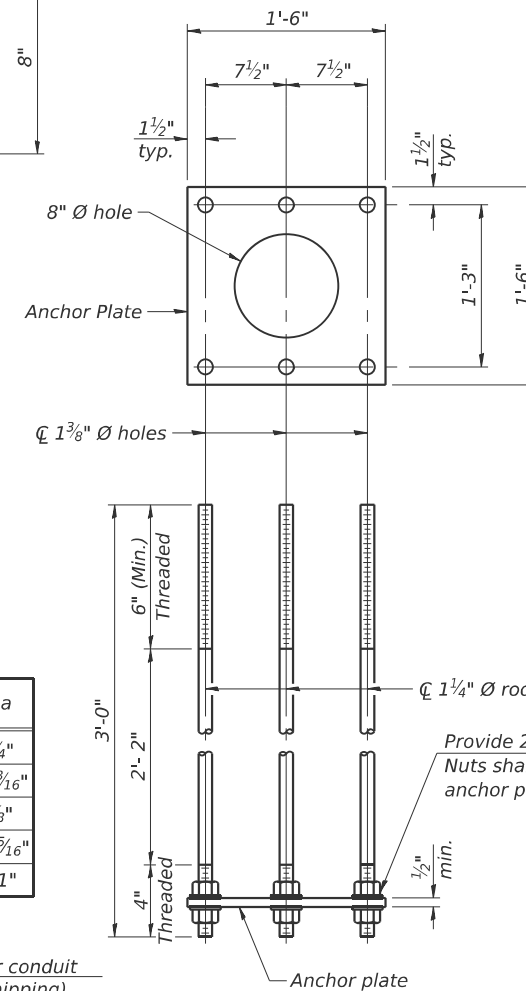
Truss Chord Nominal Dia.	a
5"	$\frac{3}{4}"$
5½"	$\frac{13}{16}"$
6"	$\frac{7}{8}"$
6½"	$\frac{15}{16}"$
7"	1"



SECTION C-C

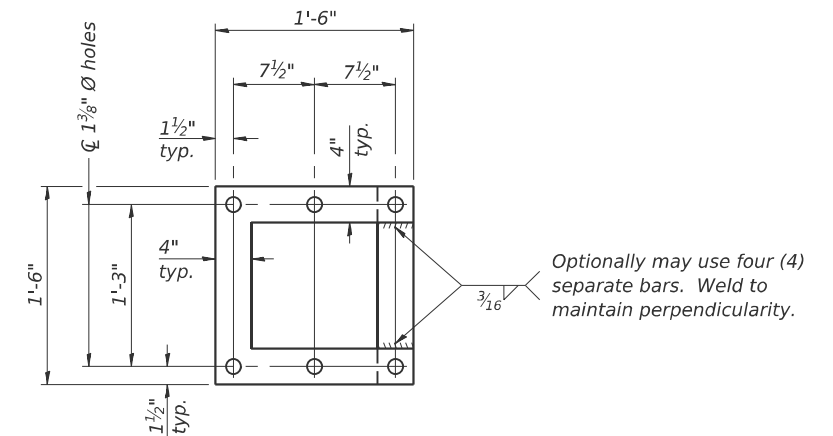
(Handhole cover not shown)

DETAIL C



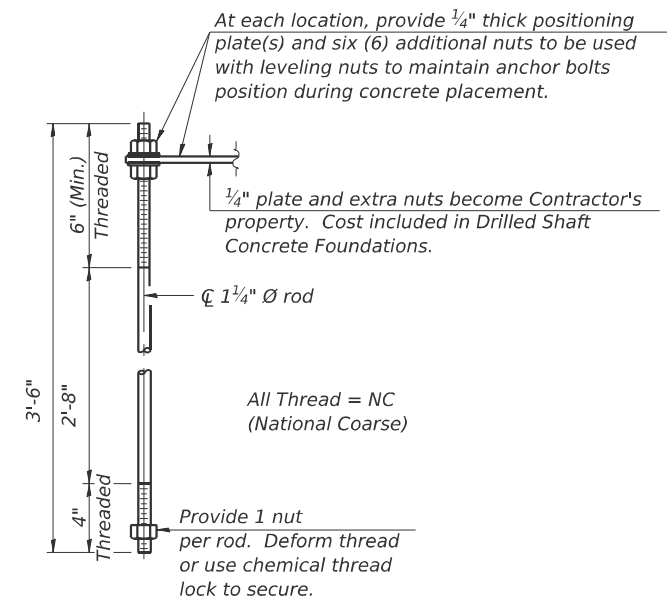
ANCHOR ROD DETAIL

Spread Footing Foundation



POSITIONING PLATE(S)

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



ANCHOR ROD DETAIL

Drilled Shaft Foundation

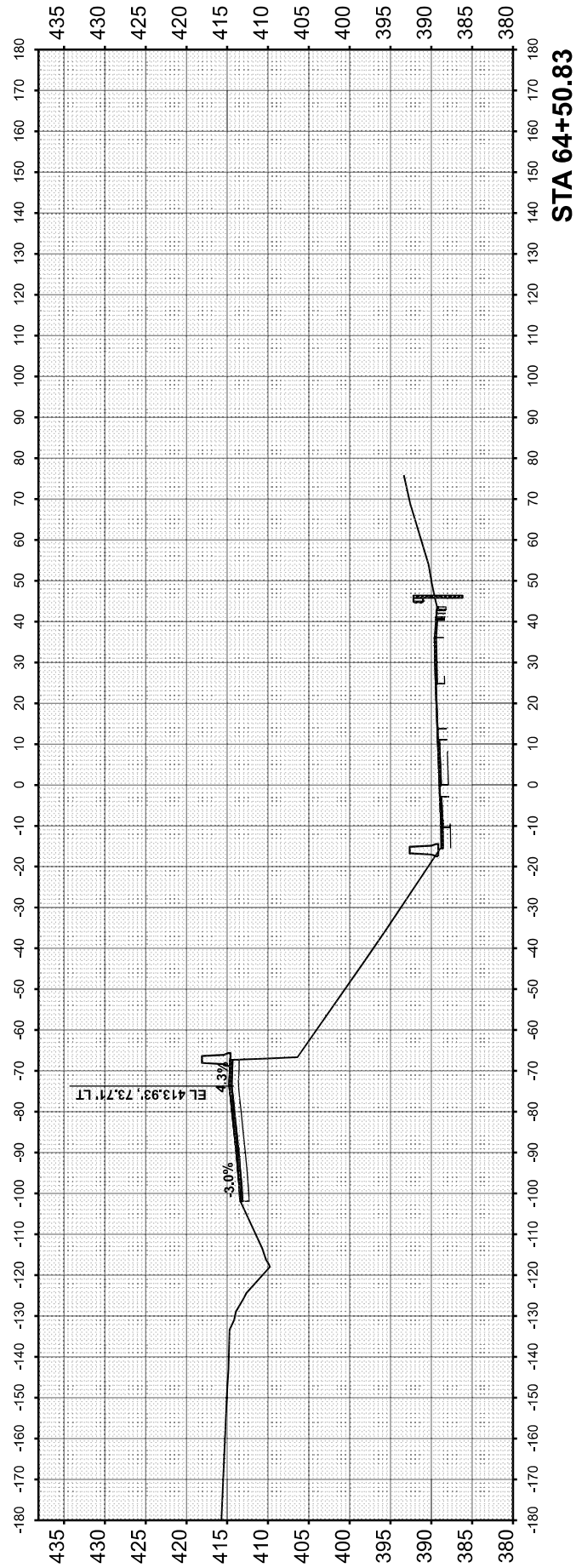
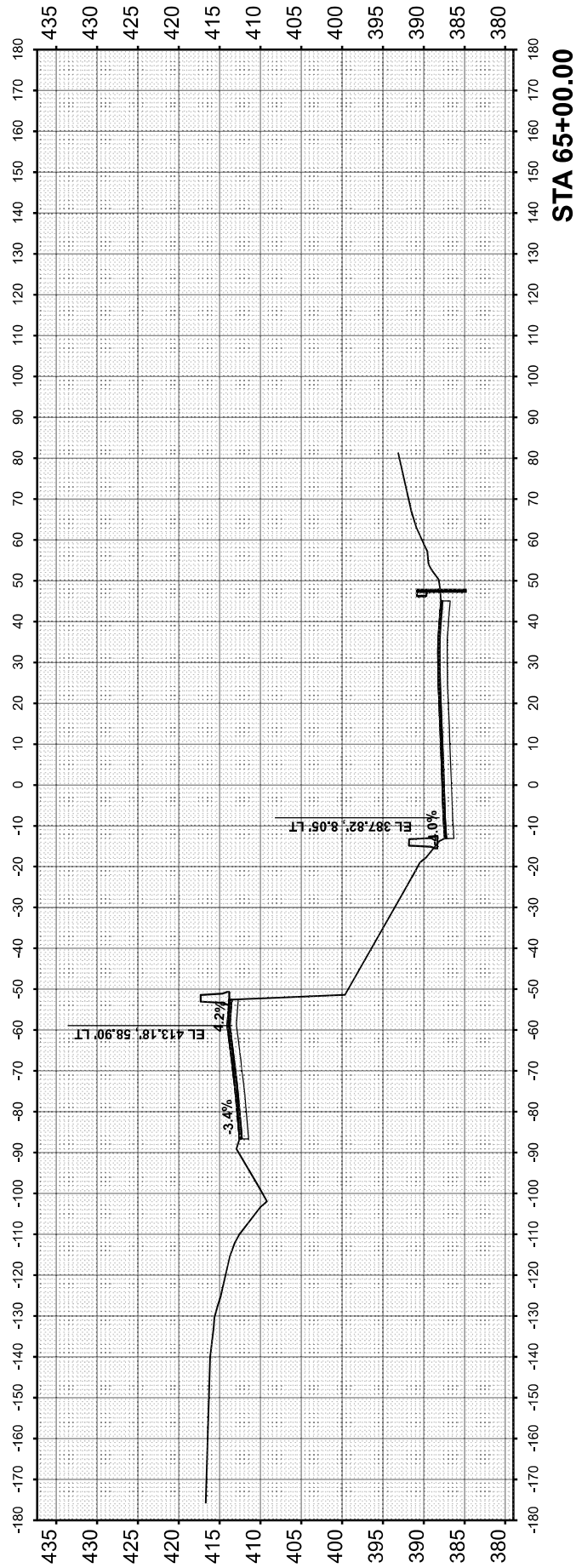
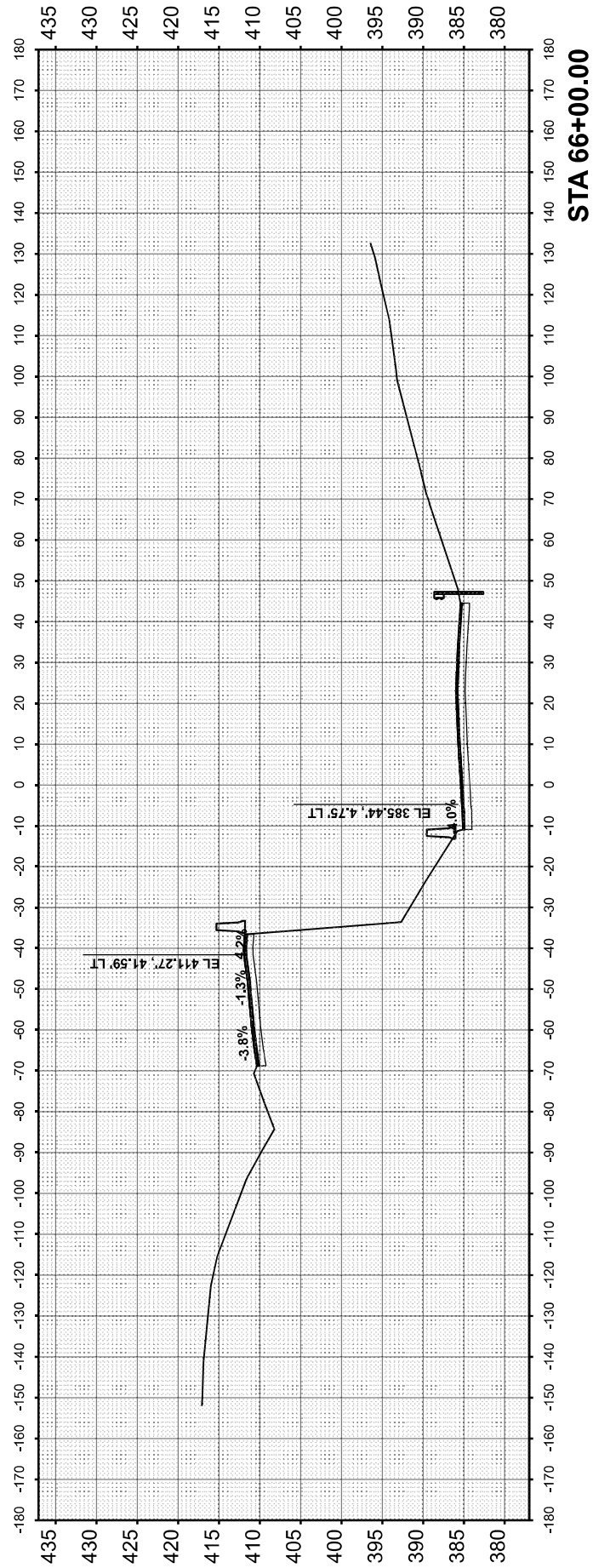
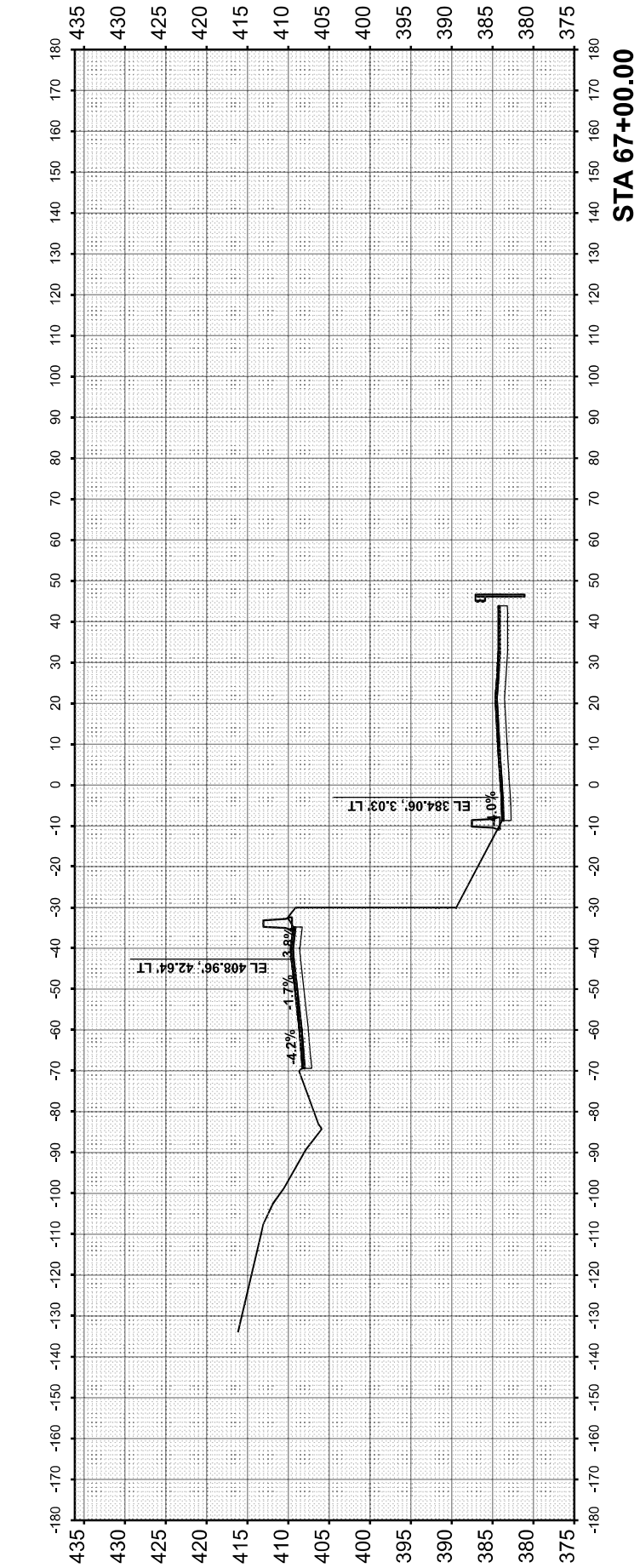
Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

10" Ø PIPE SUPPORT FRAME DETAILS

FINAL SURVEY		BY		DATE	
NO.	SURVEY NOTE BOOK	NO.	AREAS CHECKED	SURVEYED	
				PLOTTED	
				TEMPLATE	

ORIGINAL SURVEY		BY		DATE	
NO.	SURVEY NOTE BOOK	NO.	AREAS CHECKED	SURVEYED	
				PLOTTED	
				TEMPLATE	

MODEL: \$MODEL\$
FILE NAME: D8E84-RS-2-sh-XS-01.dgn



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PLOT SCALE	= 0.16666633' / in.
PLOT DATE	= 10/2/2025

DESIGNED	-	MS
DRAWN	-	MS
CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

SCALE: 1"=20'

SHEET 1 OF 7 SHEETS

STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-4(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	580
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

MODEL: \$MODEL\$NAMES
FILE NAME: D816E84-R57/0-sh1-XS-02.dgn



525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

USER NAME	= jacobsprw18ics04\$
PLOT SCALE	= 0.16666633 ' / in.
PLOT DATE	= 10/2/2025

DESIGNED	-	MS
DRAWN	-	MS
CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

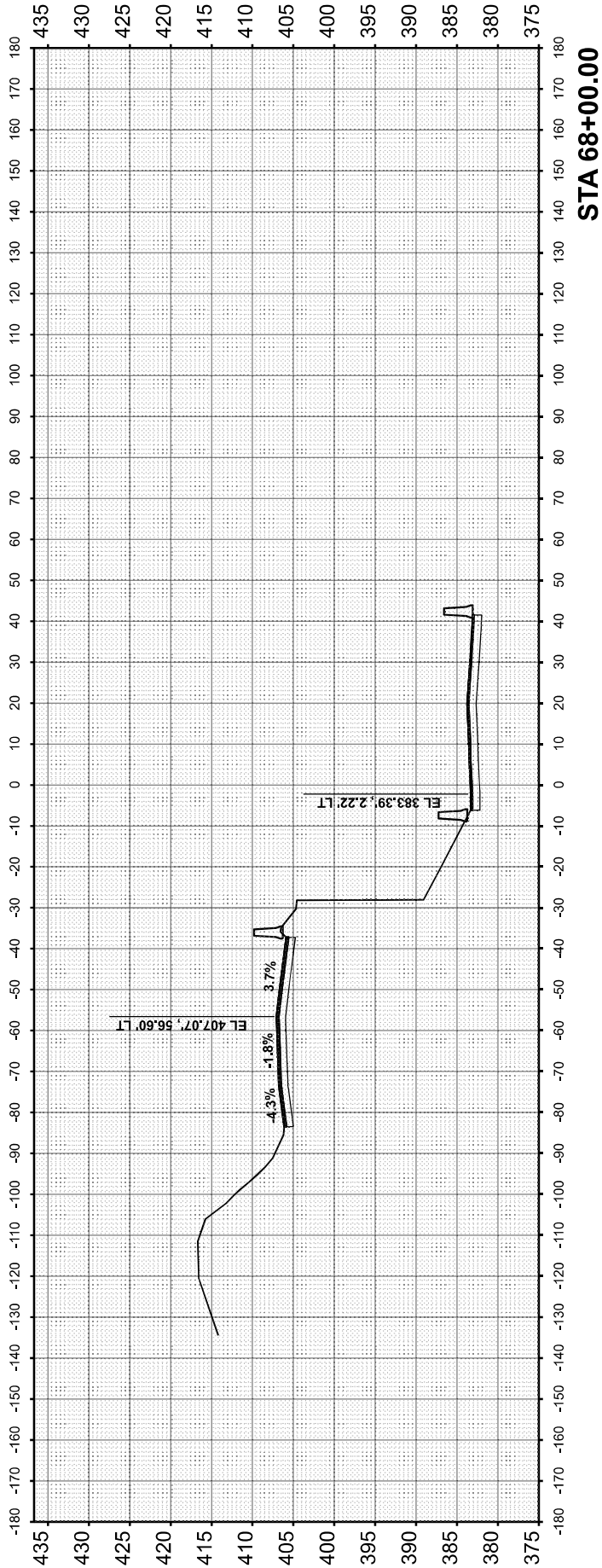
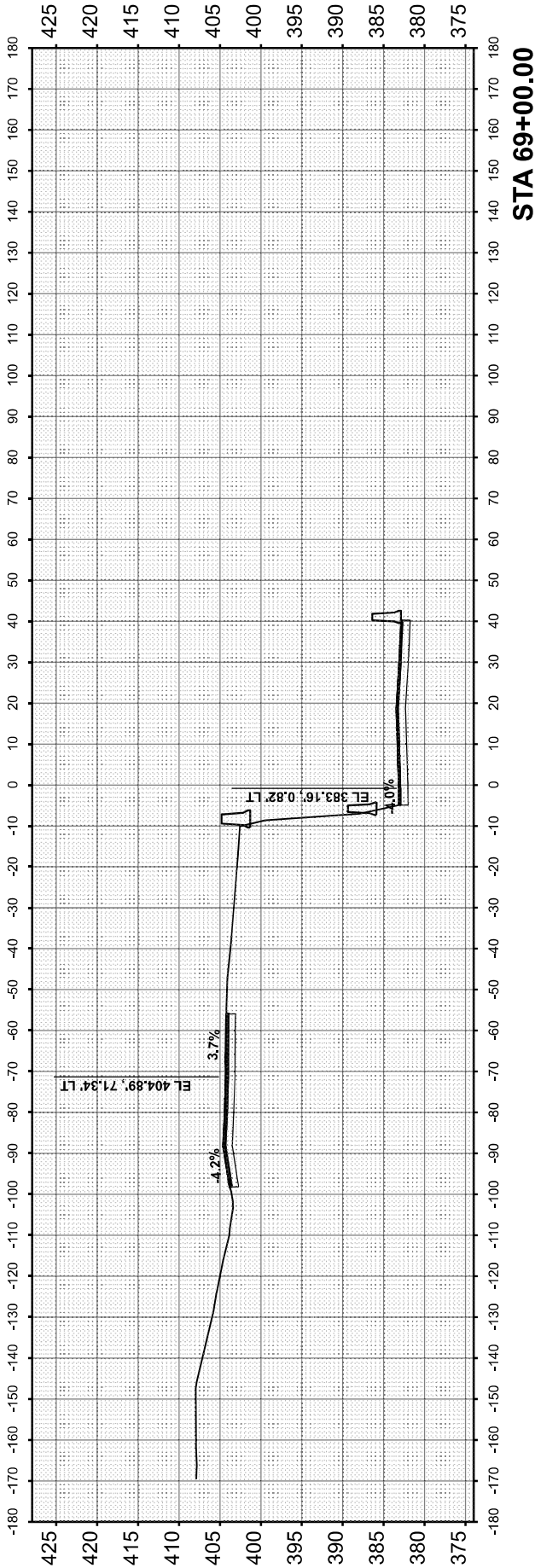
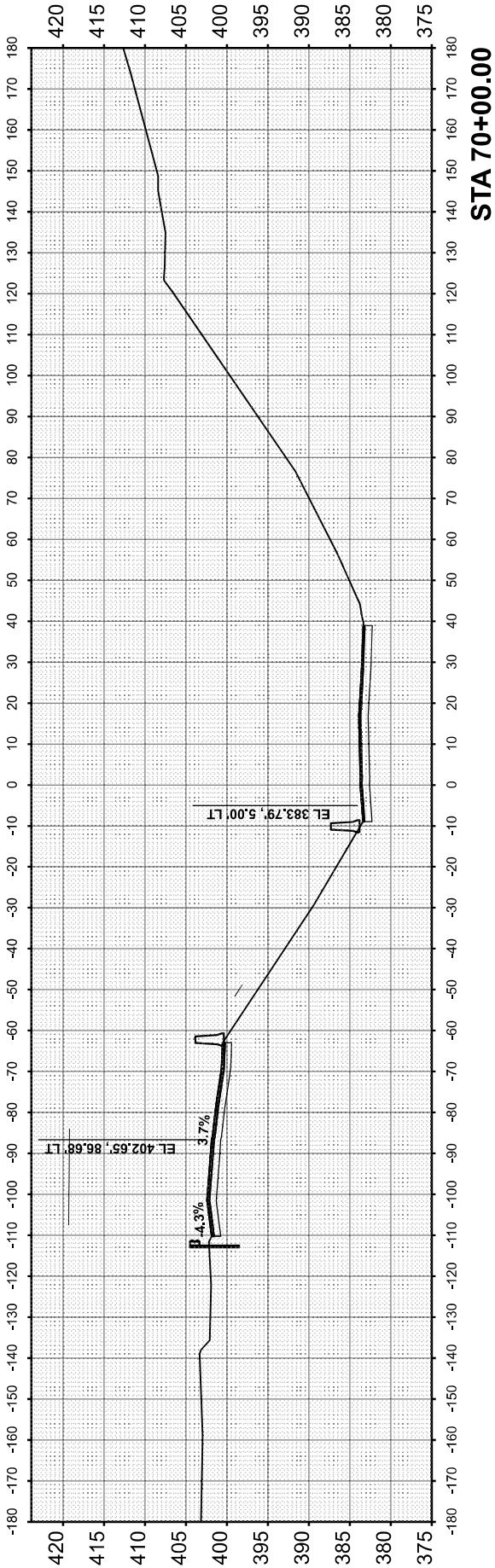
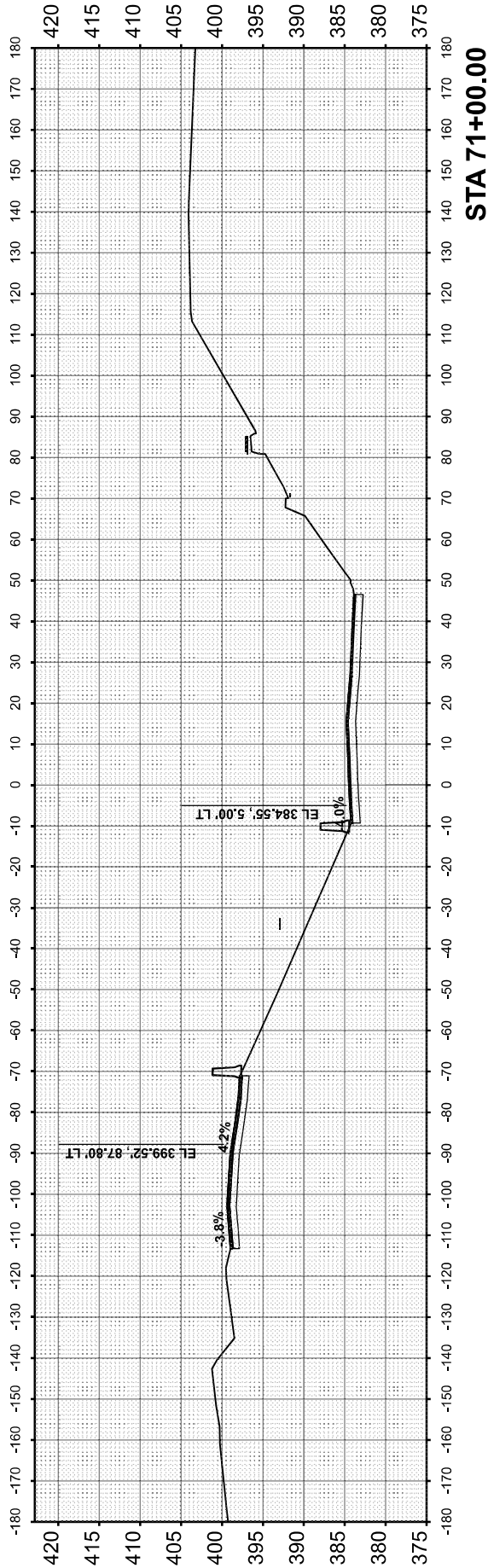
SCALE: 1"=20'

SHEET 2 OF 7 SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	581
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



FINAL		BY		DATE	
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ORIGINAL		BY		DATE	
NO.	SURVEY	NO.	DATE	BY	DATE

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FILE NAME: D876E8475570-sh-XS-03.dgn



525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

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DATE	-	2025/10/03

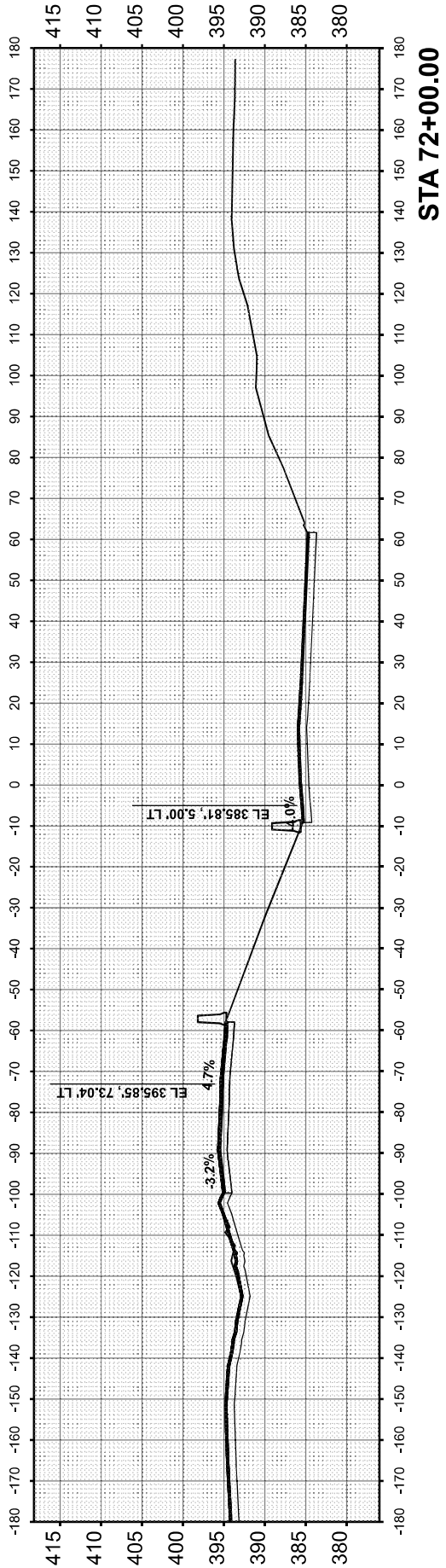
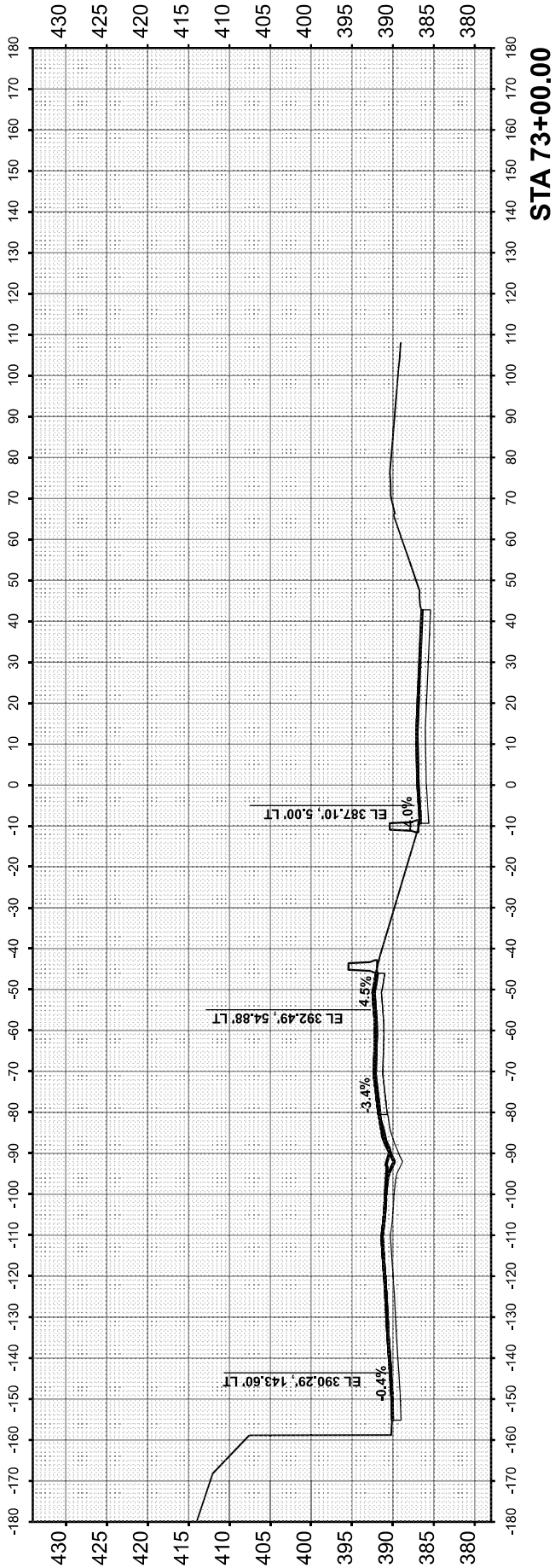
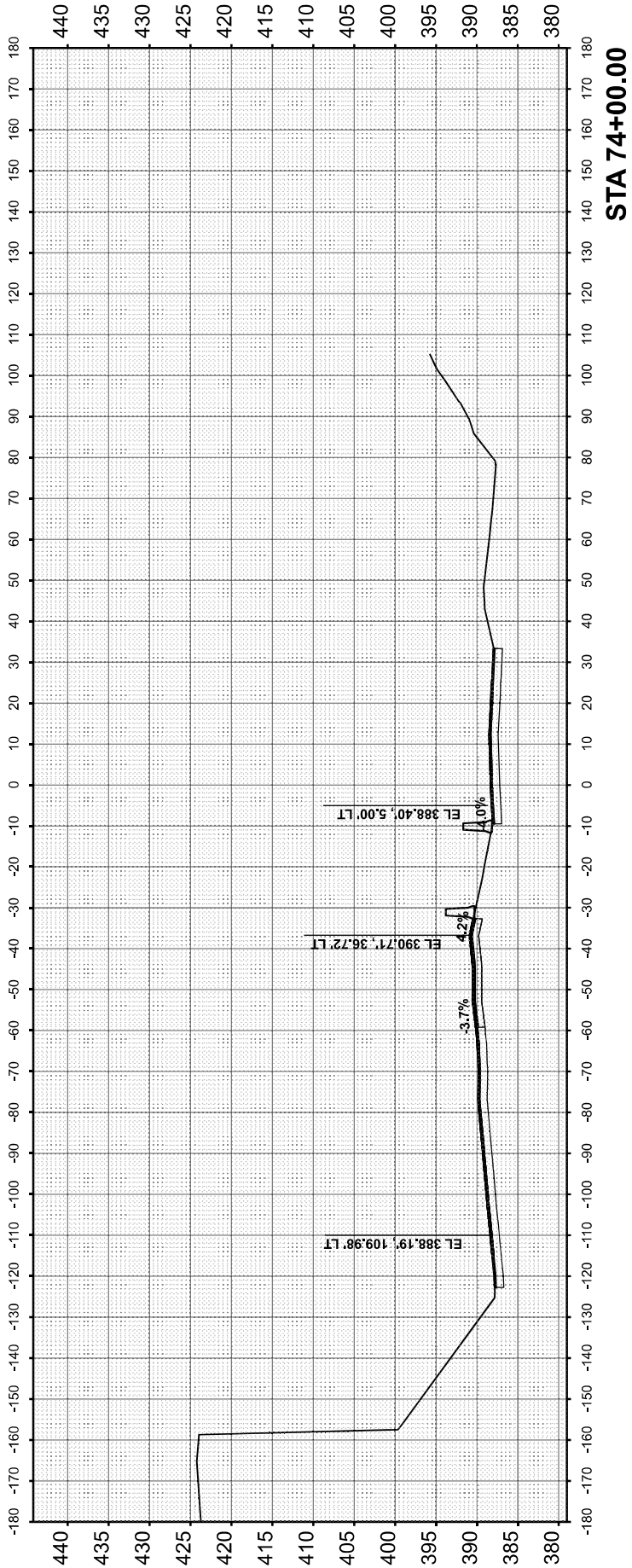
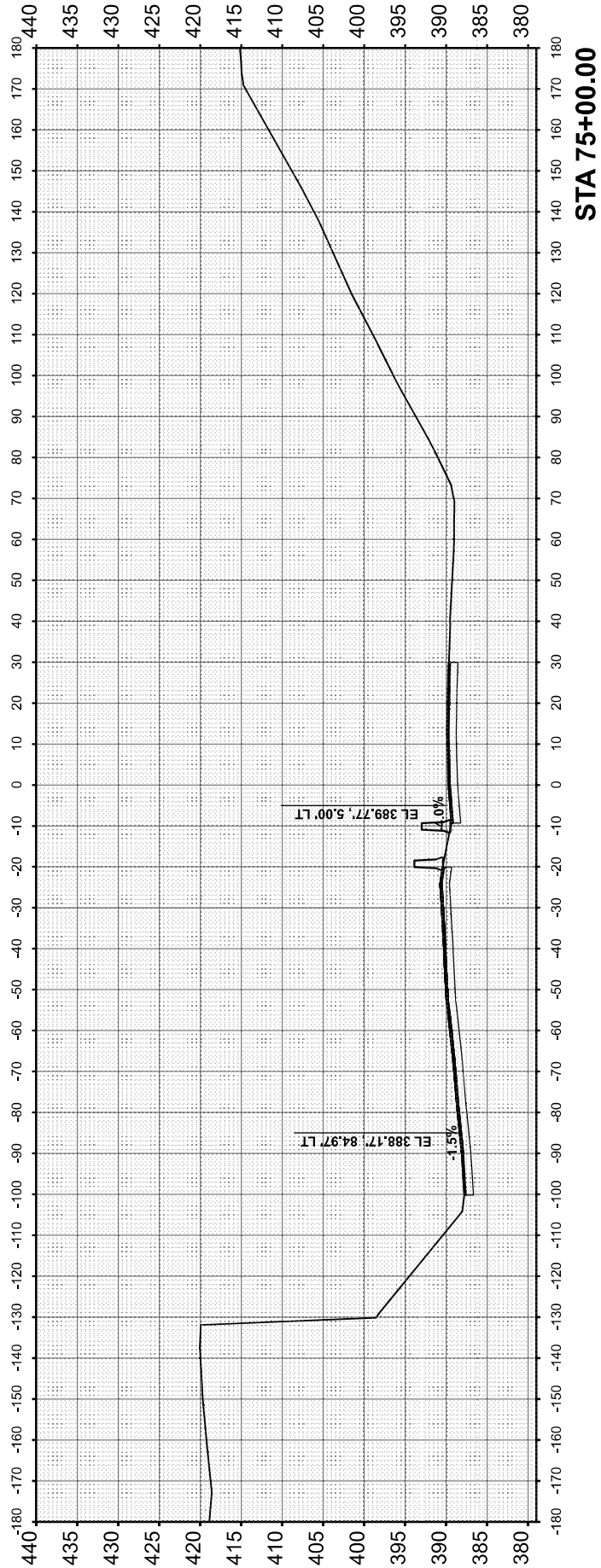
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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	582
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



ORIGINAL SURVEY		FINAL SURVEY		BY		DATE	
NO.	NOTE BOOK	NO.	NOTE BOOK				
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	PLOTTED		PLOTTED				
	TEMPLATE		TEMPLATE				
	AREAS		AREAS				

ORIGINAL SURVEY		FINAL SURVEY		BY		DATE	
NO.	NOTE BOOK	NO.	NOTE BOOK				
	AREAS CHECKED		AREAS CHECKED				
	PLOTTED		PLOTTED				
	TEMPLATE		TEMPLATE				
	AREAS		AREAS				

MODEL: \$MODEL\$NAMES
FILE NAME: D876E8475570-shh-XS-04.dgn



525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

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PLOT SCALE	= 0.16666633' / in.
PLOT DATE	= 10/2/2025

DESIGNED	-	MS
DRAWN	-	MS
CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

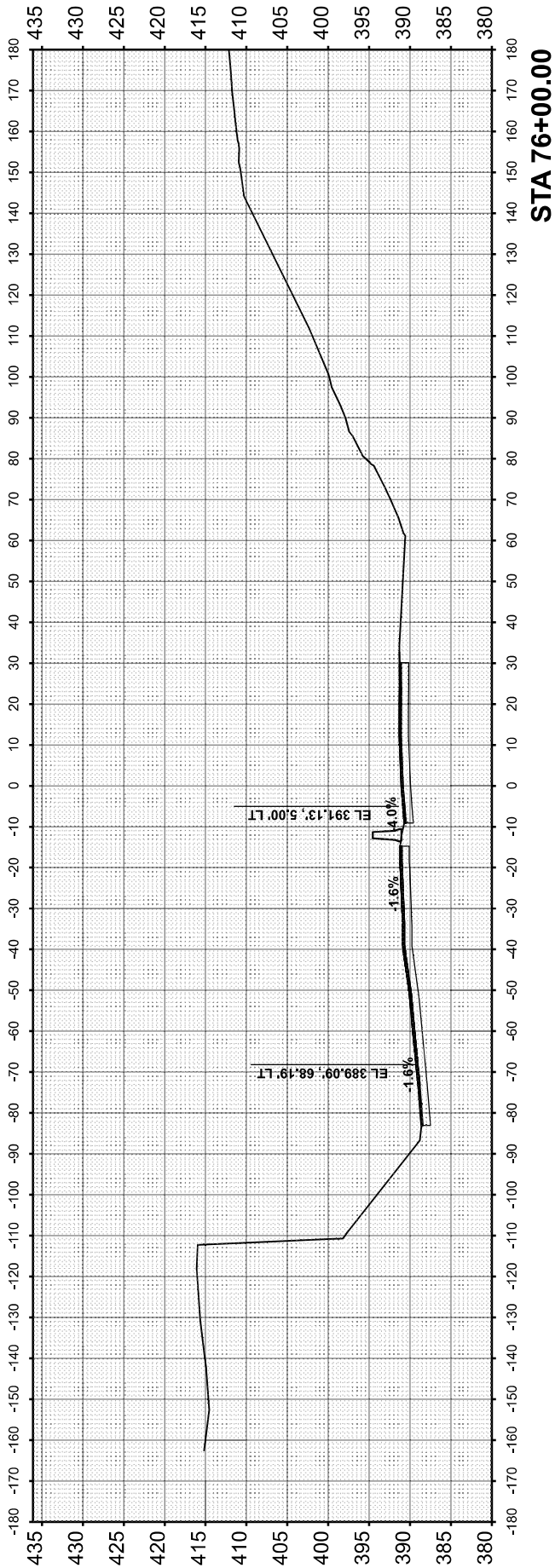
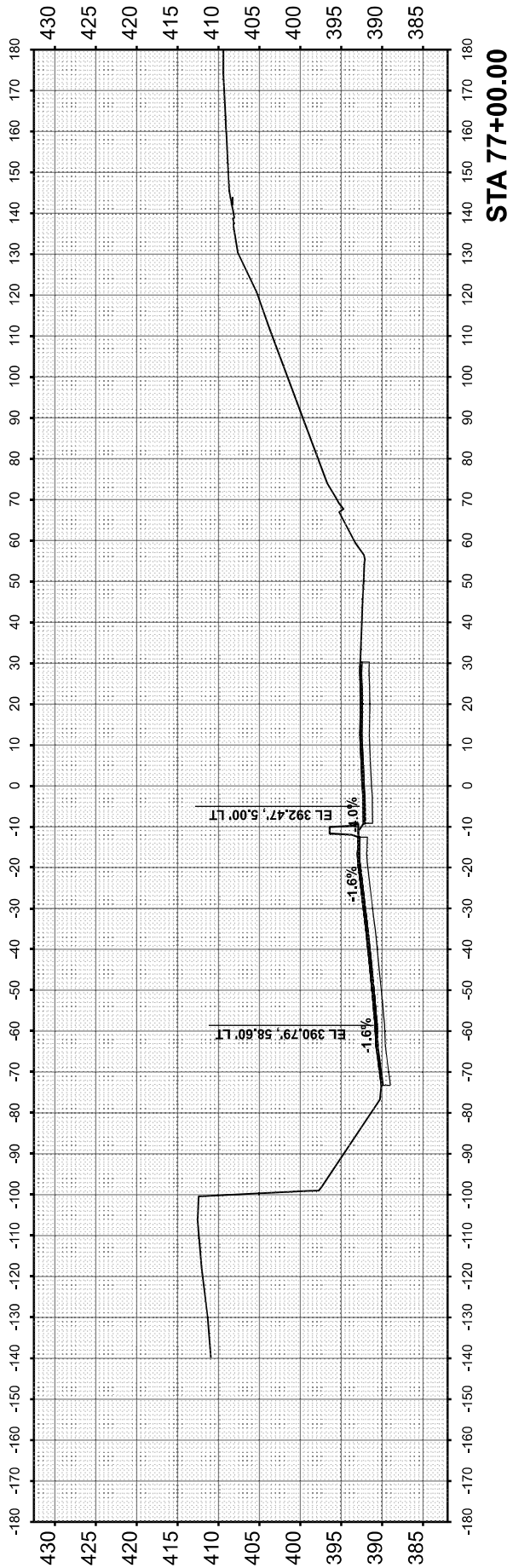
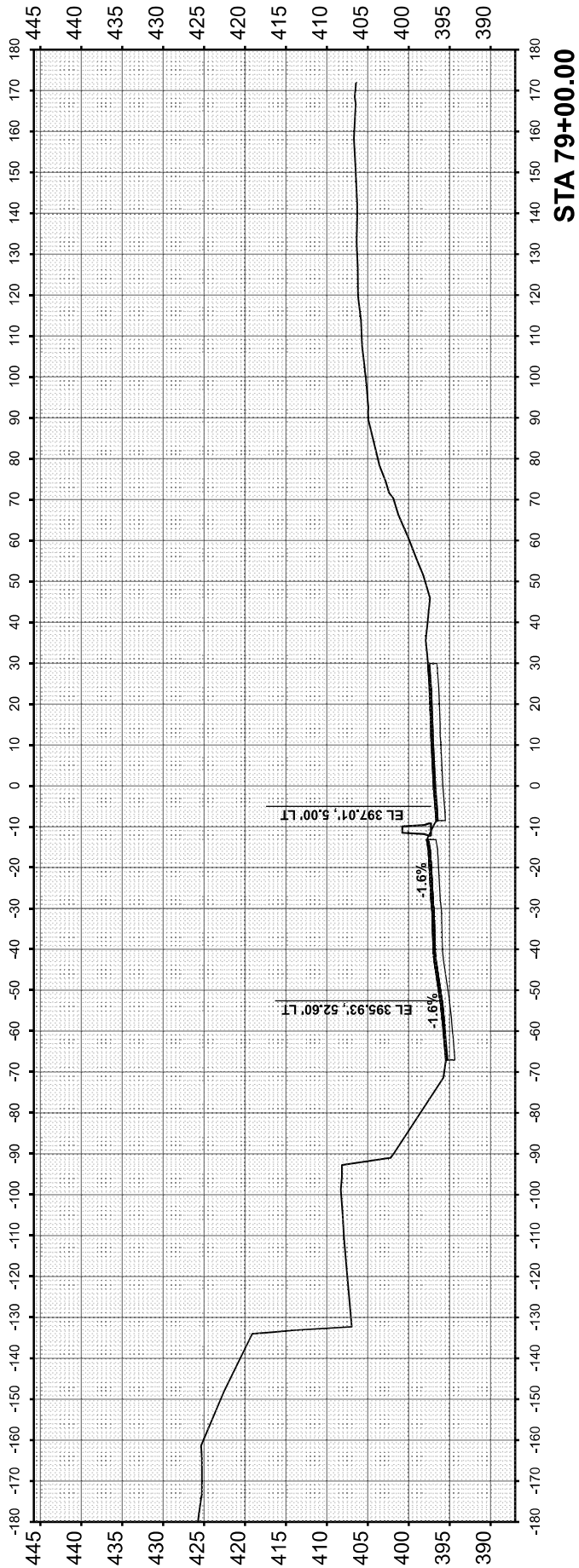
SCALE: 1"=20'

SHEET 4 OF 7 SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



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	NOTE BOOK		AREAS		
	AREAS CHECKED		AREAS CHECKED		

ORIGINAL		BY		DATE	
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	NOTE BOOK		AREAS		
	AREAS CHECKED		AREAS CHECKED		

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525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

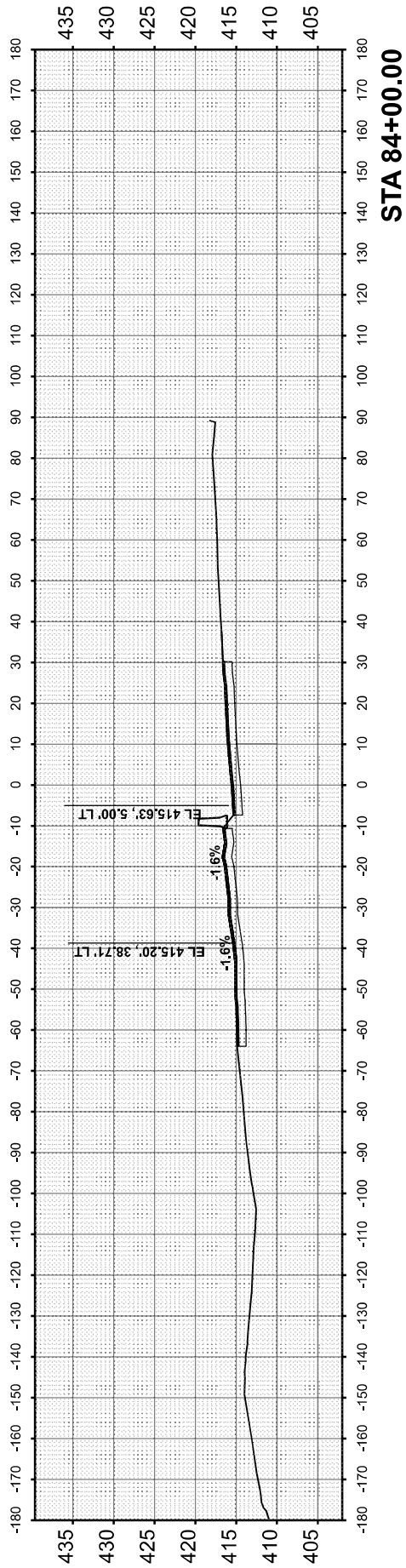
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PLOT DATE = 10/2/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

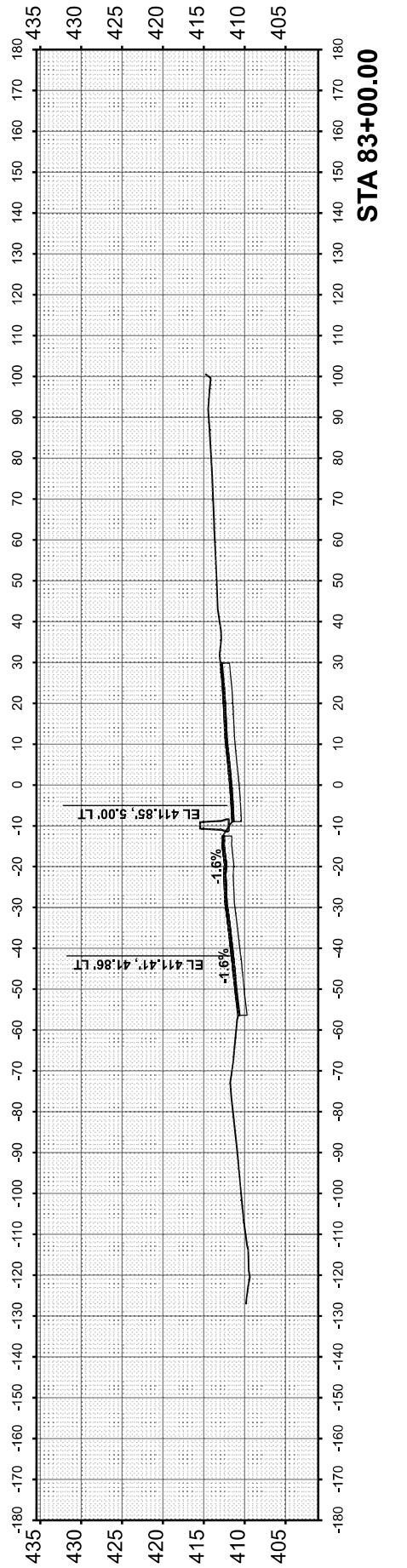
CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

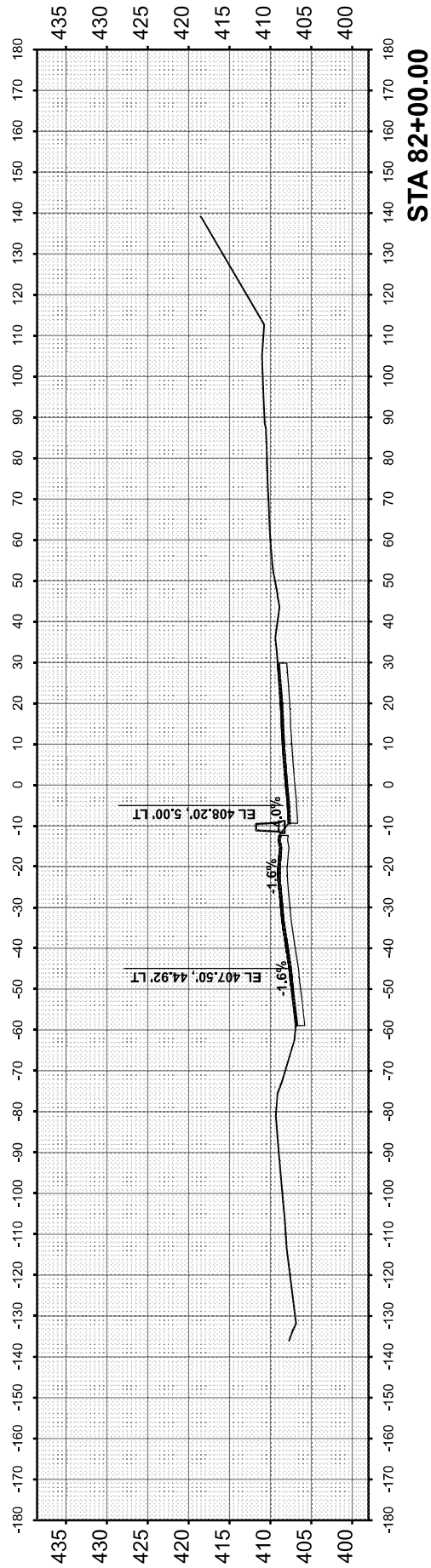
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-4(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	584
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



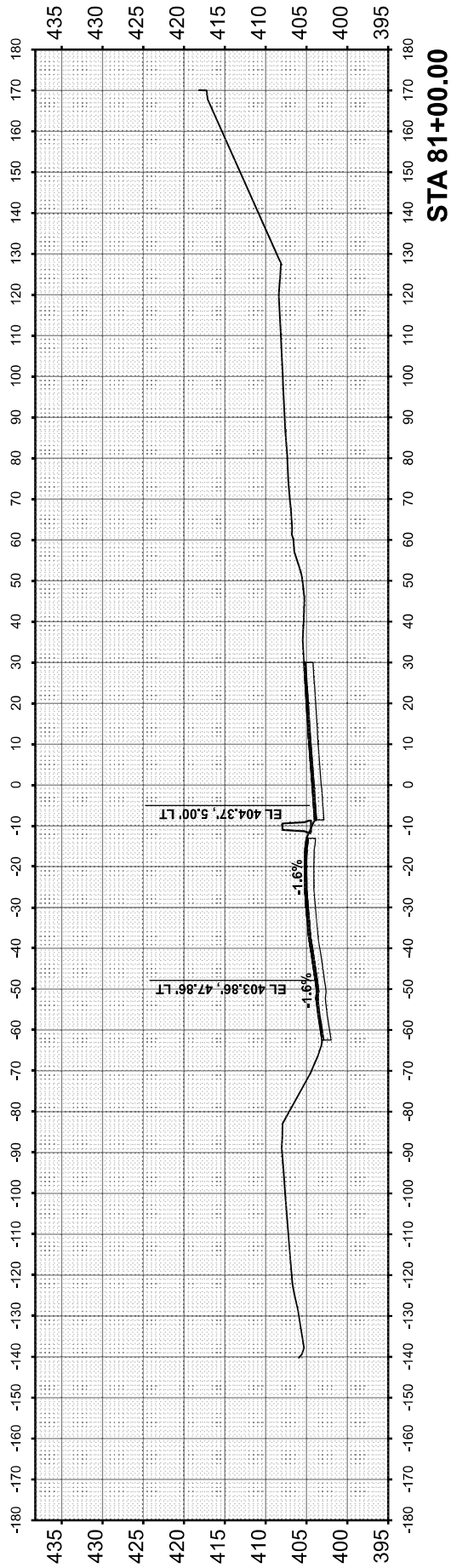
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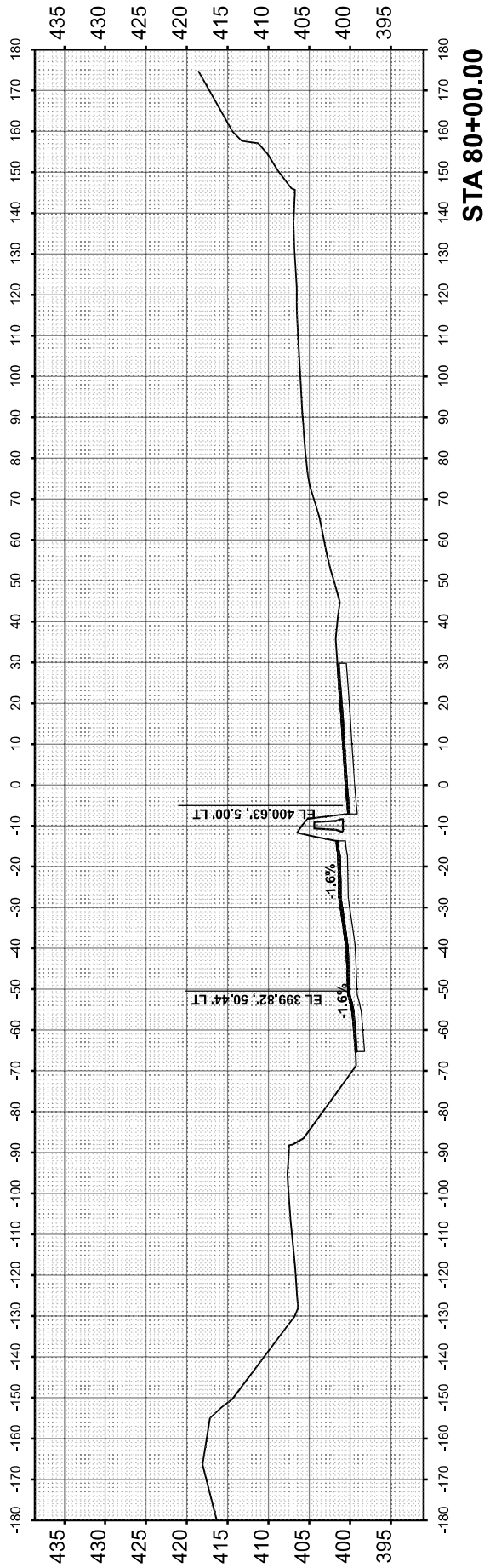
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STA 82+00.00



STA 81+00.00

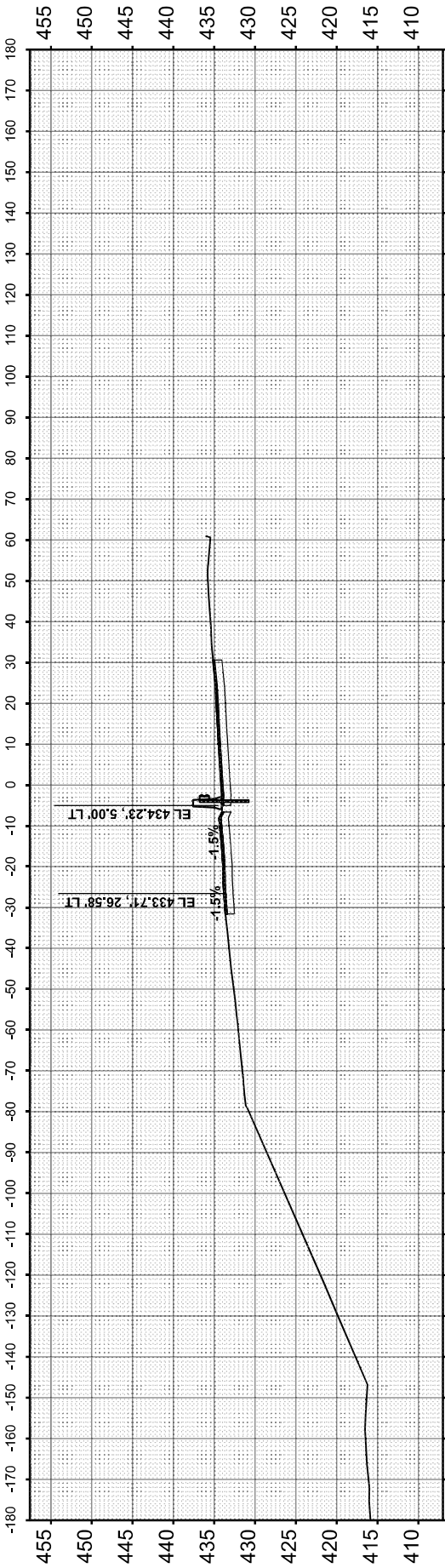


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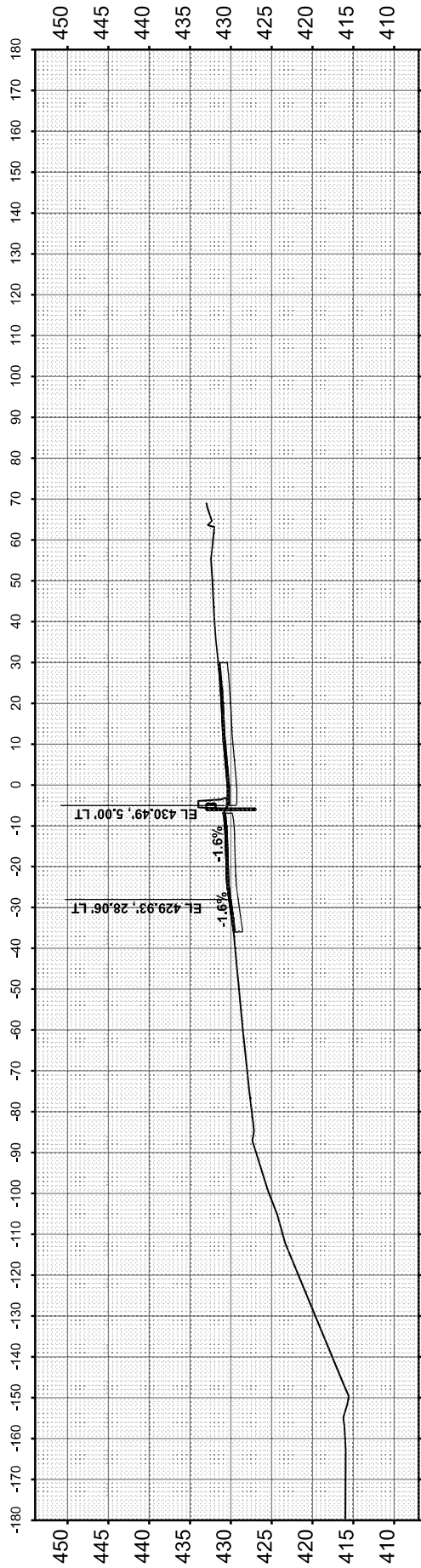
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ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE	BY	DATE

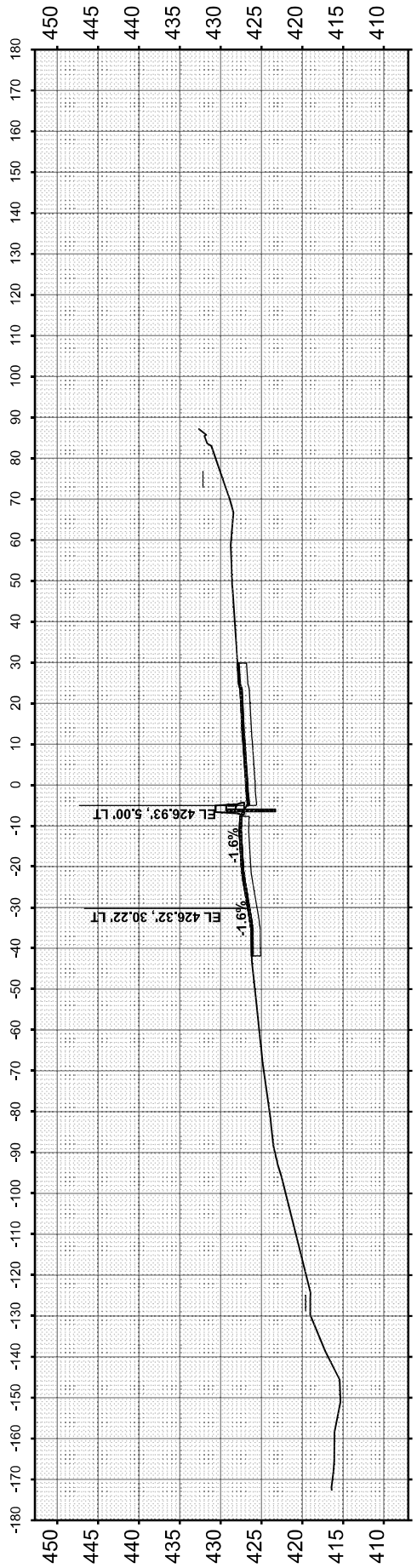
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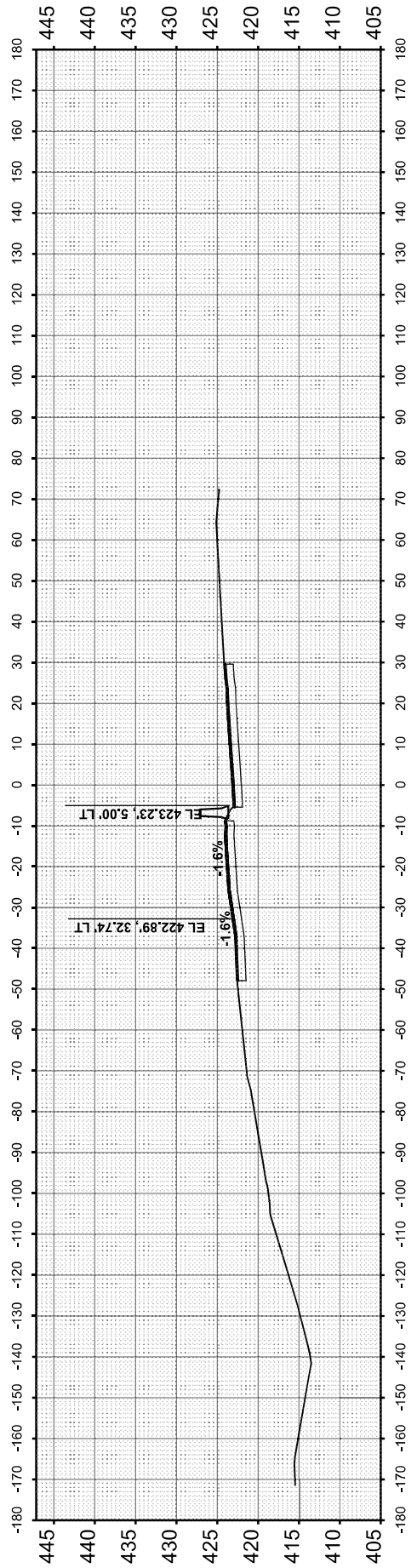
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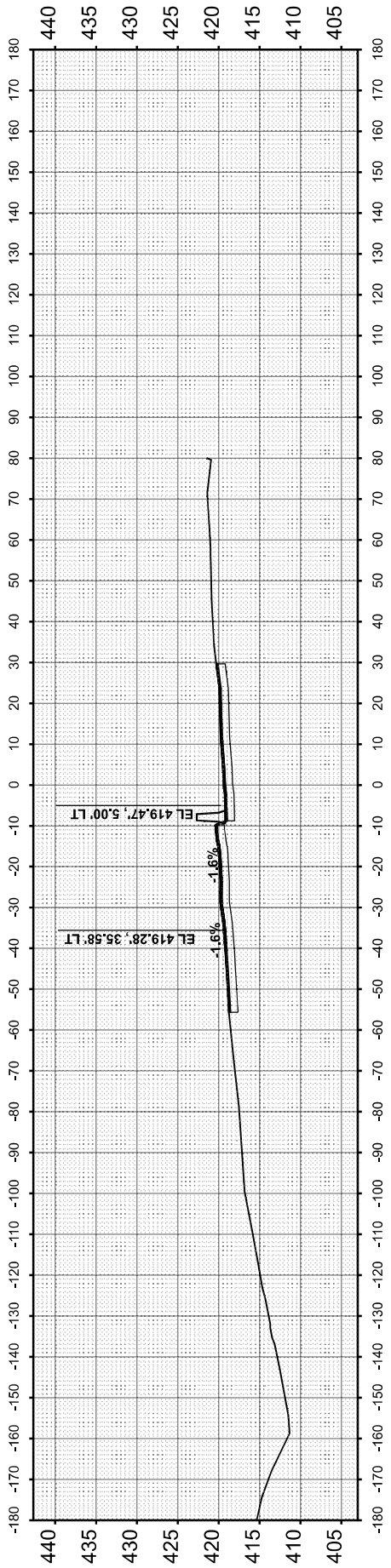
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STA 87+00.00



STA 86+00.00



STA 85+00.00



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Suite 1600
Chicago, IL 60661
(312) 251-3000

USER NAME	= jacobspw18ics01S
PLOT SCALE	= 0.16666633' / in.
PLOT DATE	= 10/2/2025

DESIGNED	- MS
DRAWN	- MS
CHECKED	- MS
DATE	- 2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

SCALE: 1"=20'

SHEET 6 OF 7 SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	585
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE

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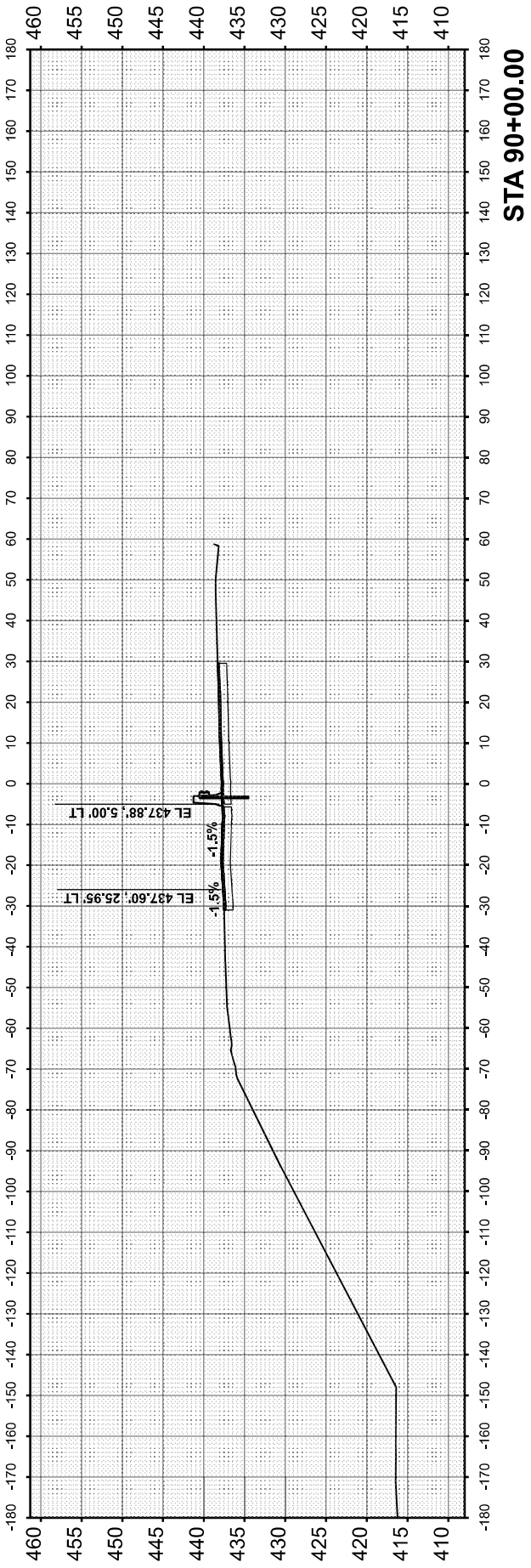
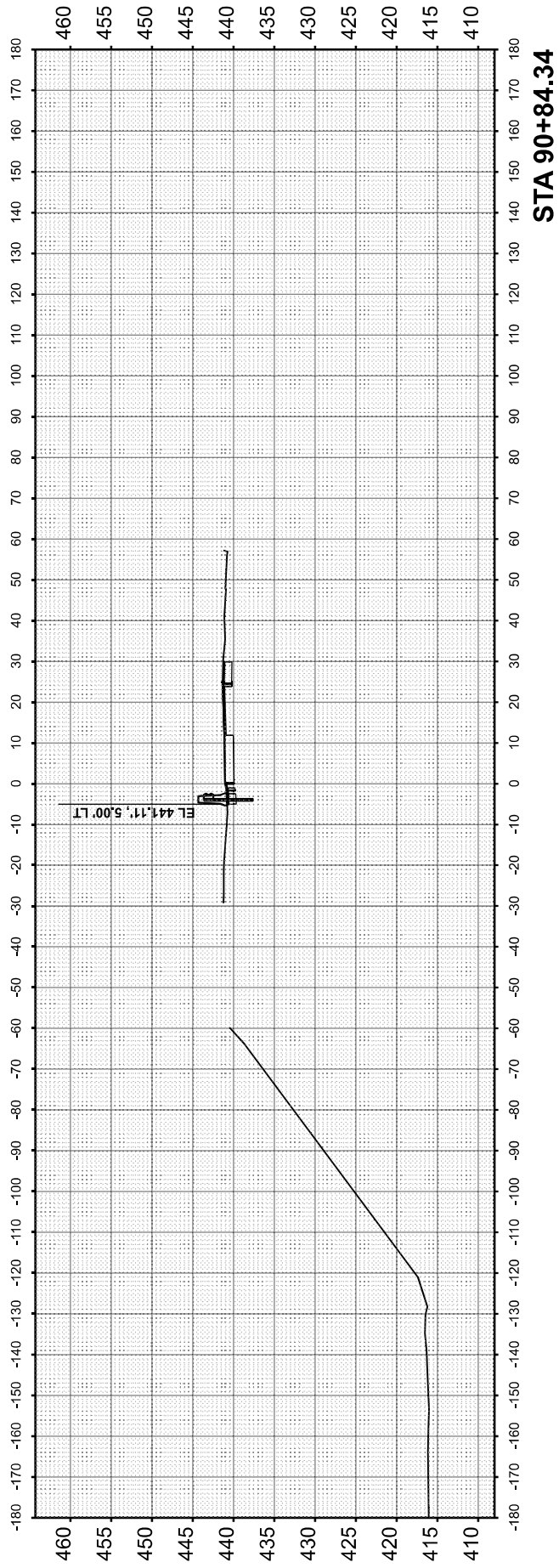
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PLOT DATE = 10/2/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 NORTHBOUND SOUTHBOUND

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

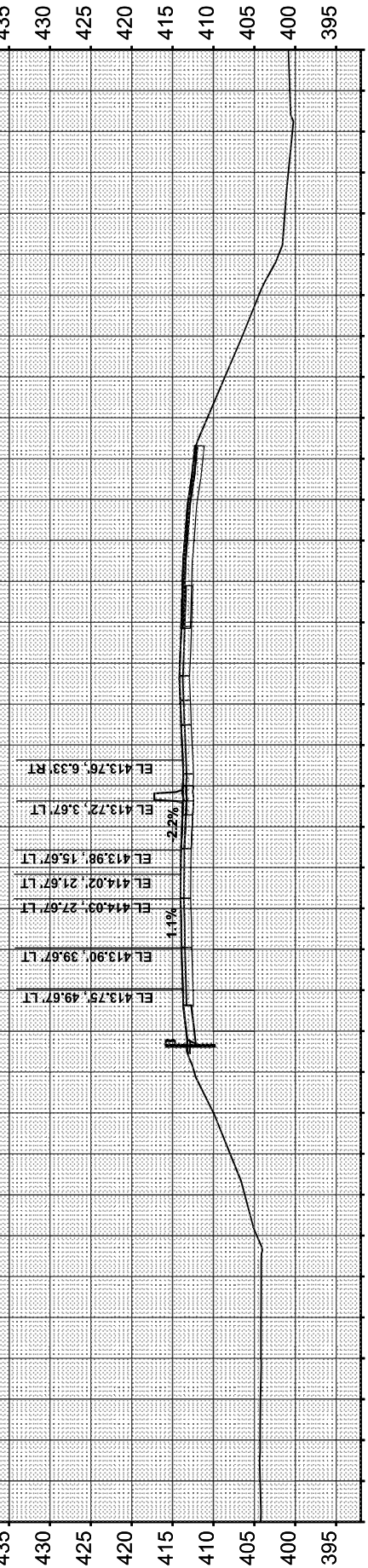
F&I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	586
CONTRACT NO. 76E84				
		ILLINOIS	FED. AID PROJECT	



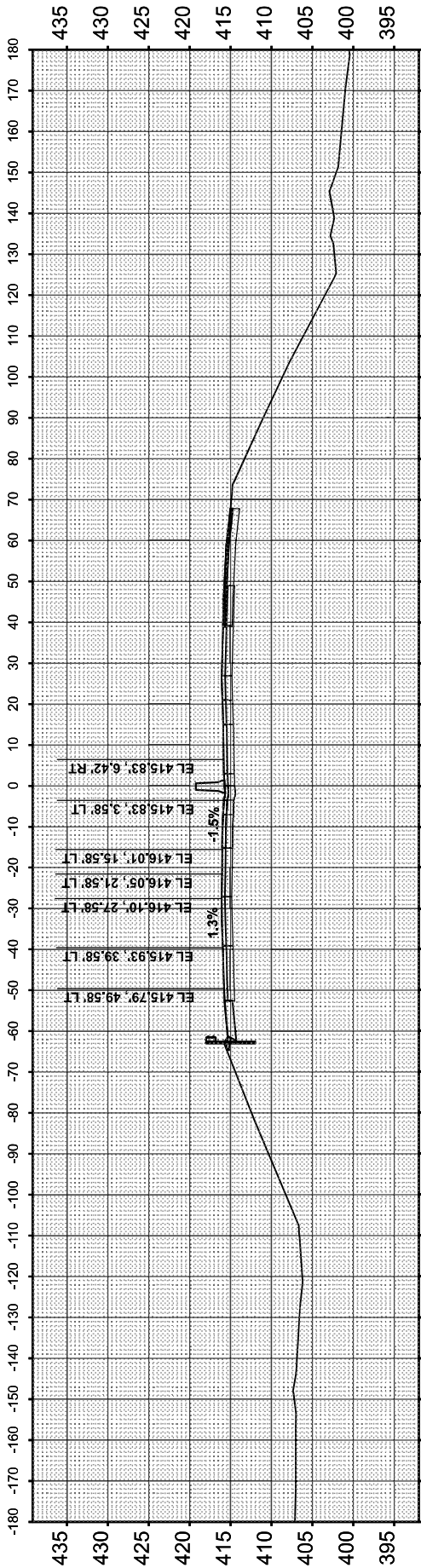
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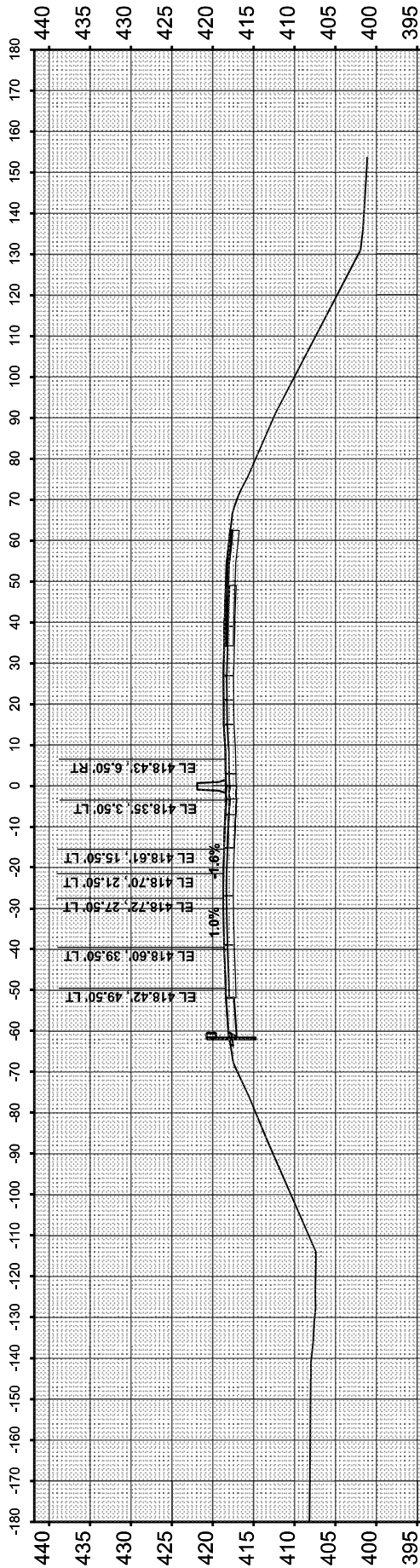
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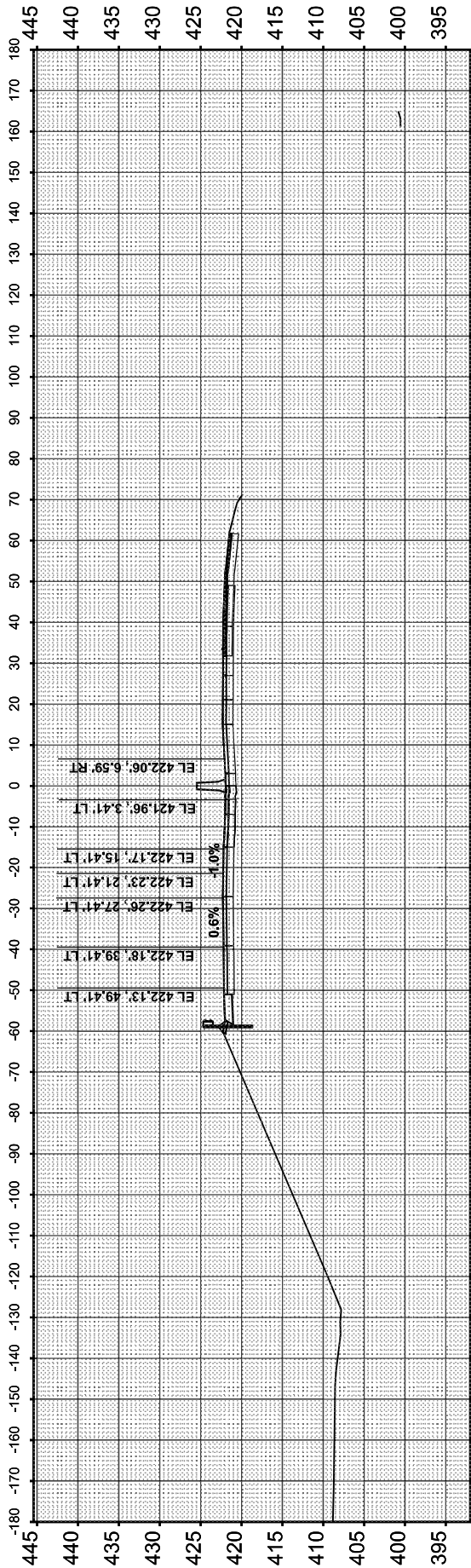
STA 93+00.00



STA 92+00.00



STA 91+00.00



STA 90+00.00

BRIDGE OMISSION
SEE SN 082-0017

STA 89+00.00



USER NAME = jacobspw18ics035
PLOT SCALE = 0.16666633' / in.
PLOT DATE = 10/2/2025

DESIGNED - MS
DRAWN - MS
CHECKED - MS
DATE - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 / I-70

SCALE: 1"=20' SHEET 1 OF 46 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	587
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO.	BY	DATE	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK NO.	BY	DATE	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

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Suite 1600
Chicago, IL 60661
(312) 251-3000

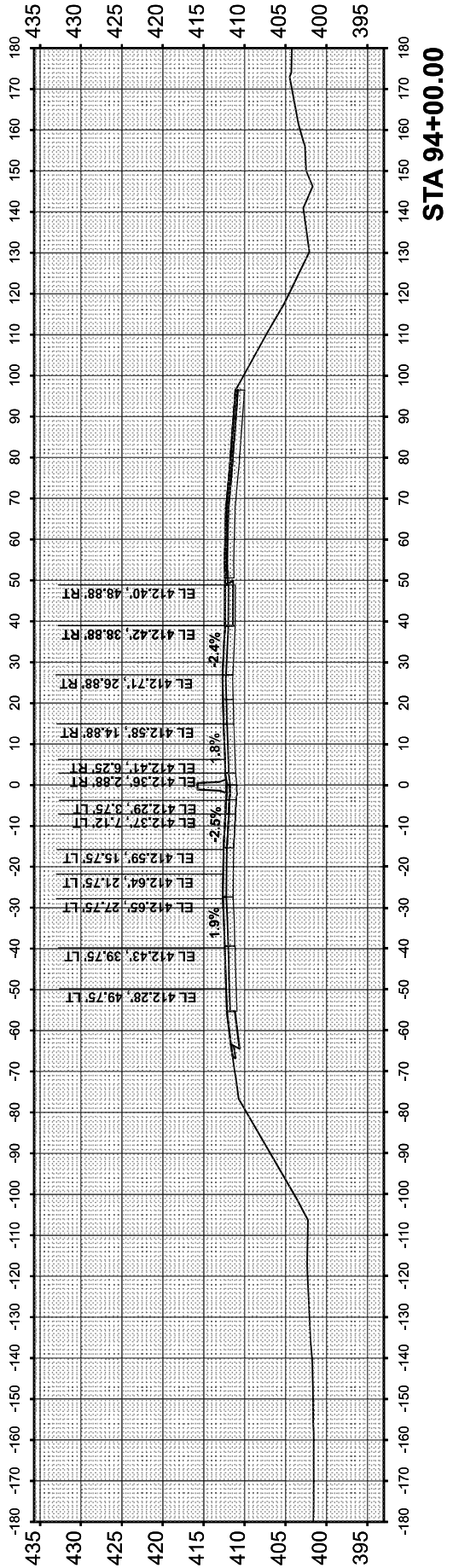
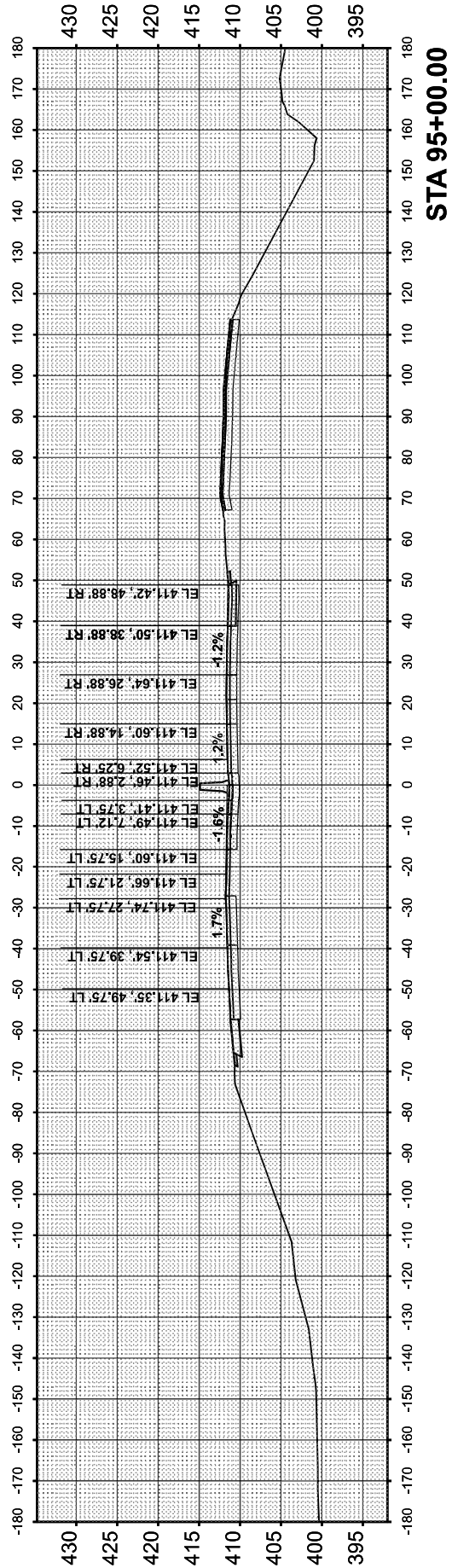
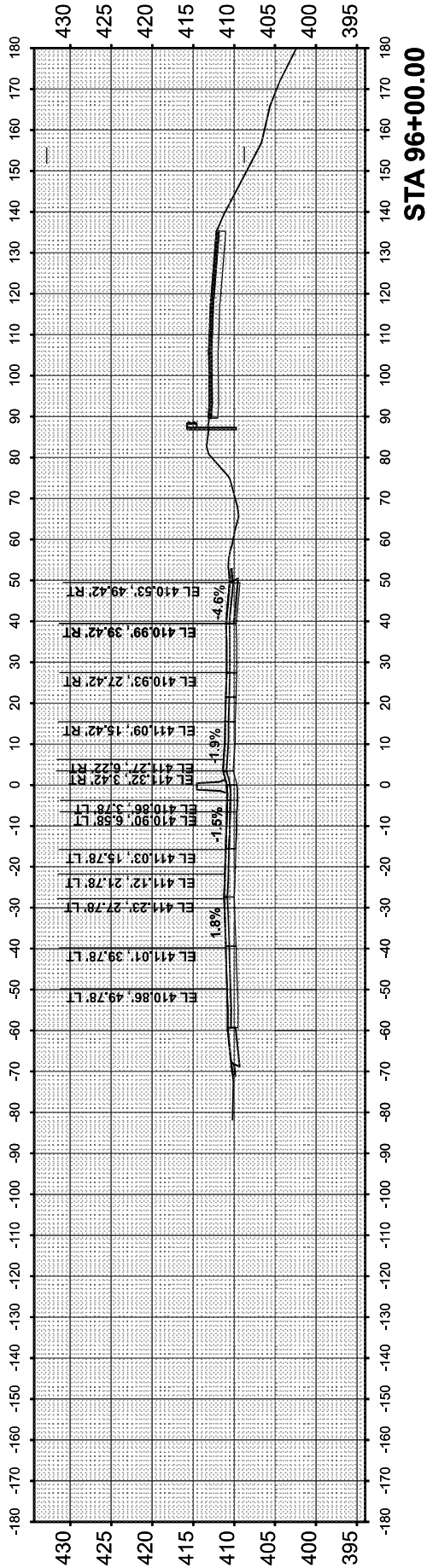
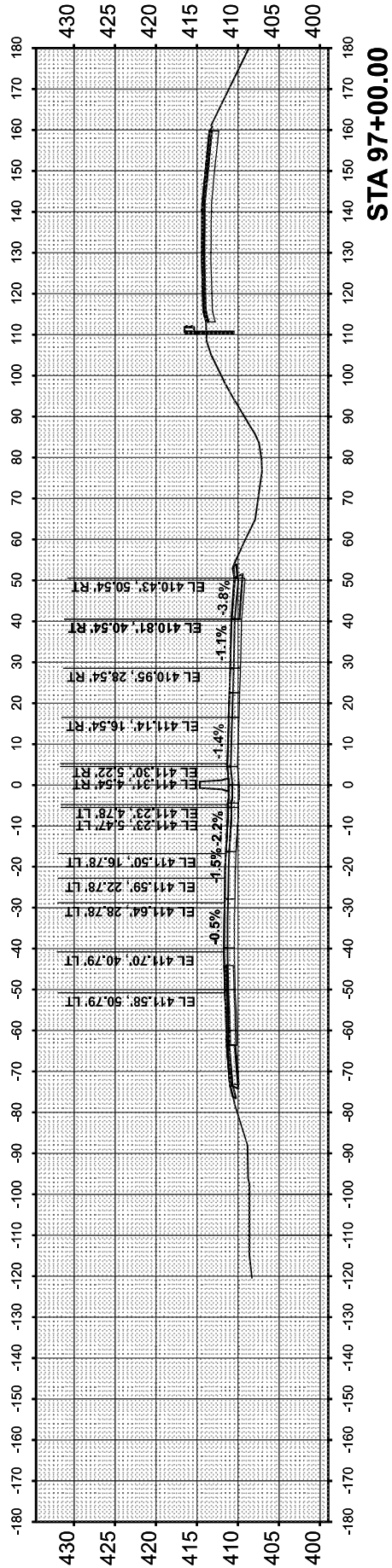
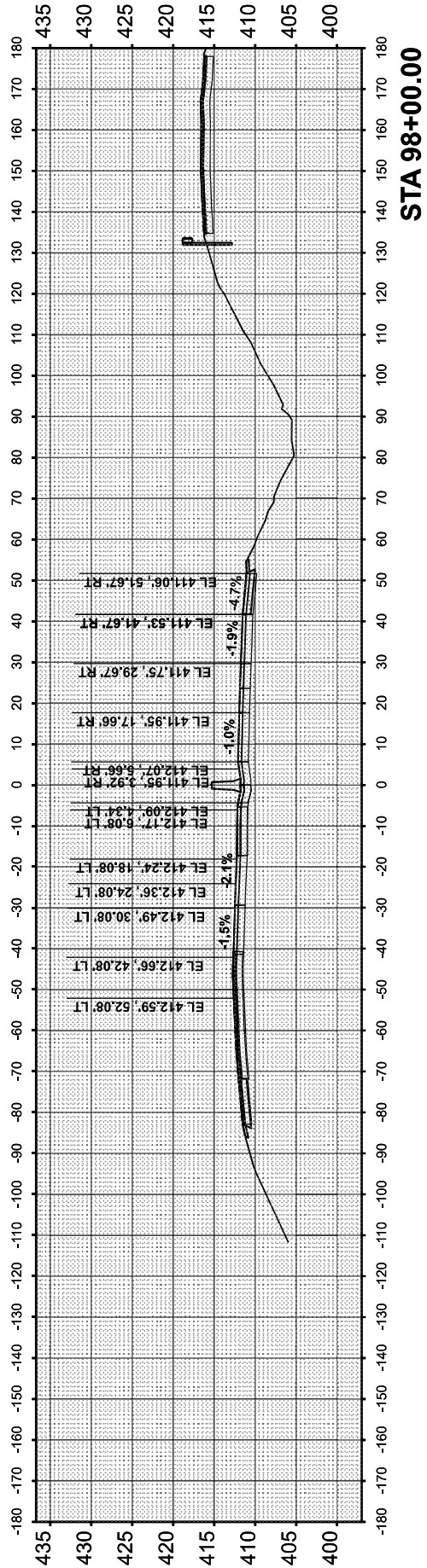
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PLOT DATE = 10/2/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 / I-70

SCALE: 1"=20' SHEET 2 OF 46 SHEETS STA. TO STA.

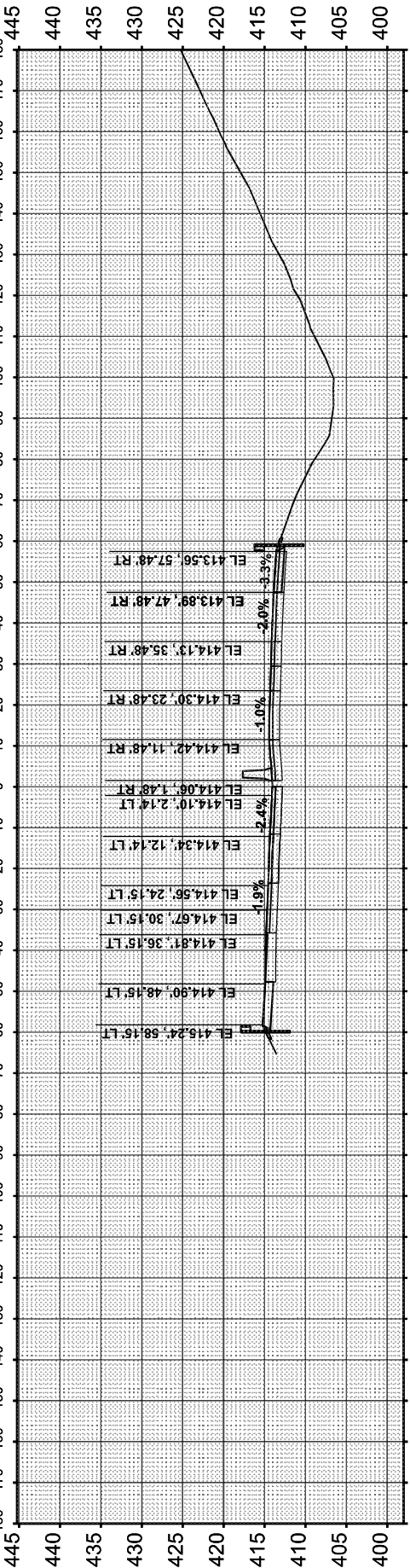
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(4,5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	588
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



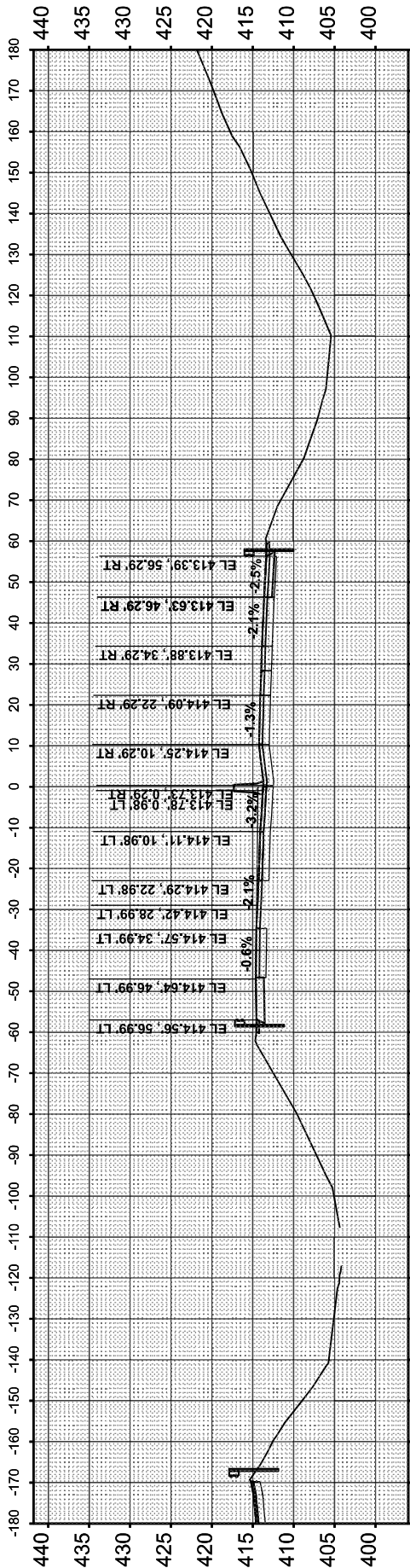
FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

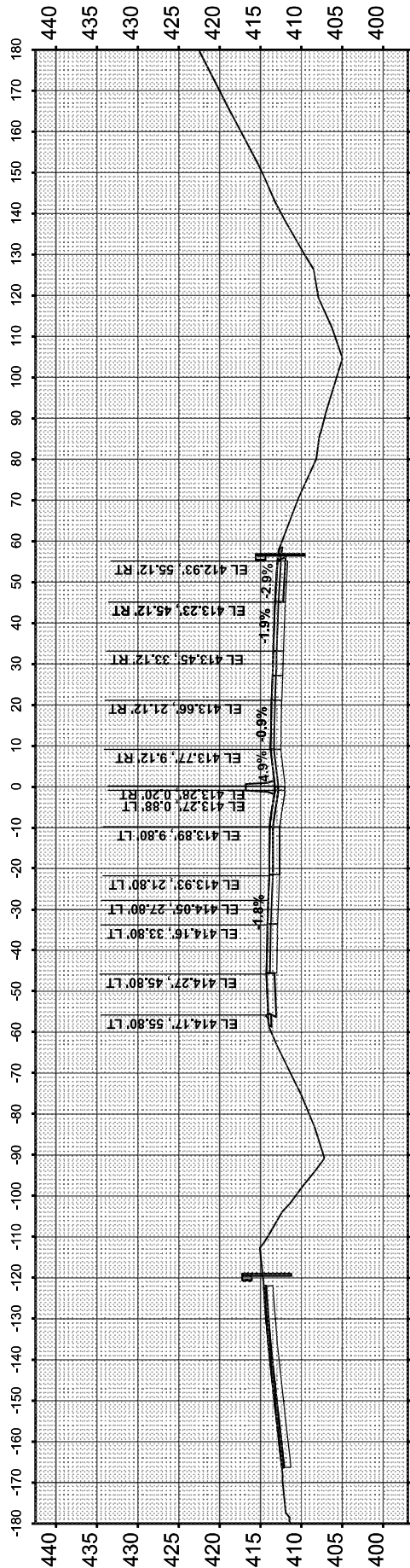
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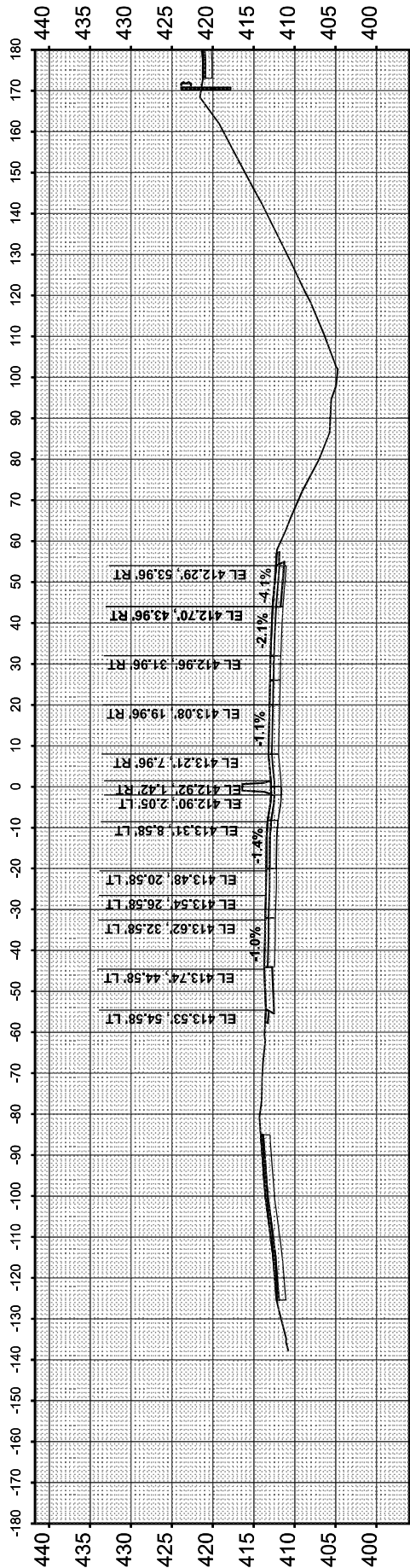
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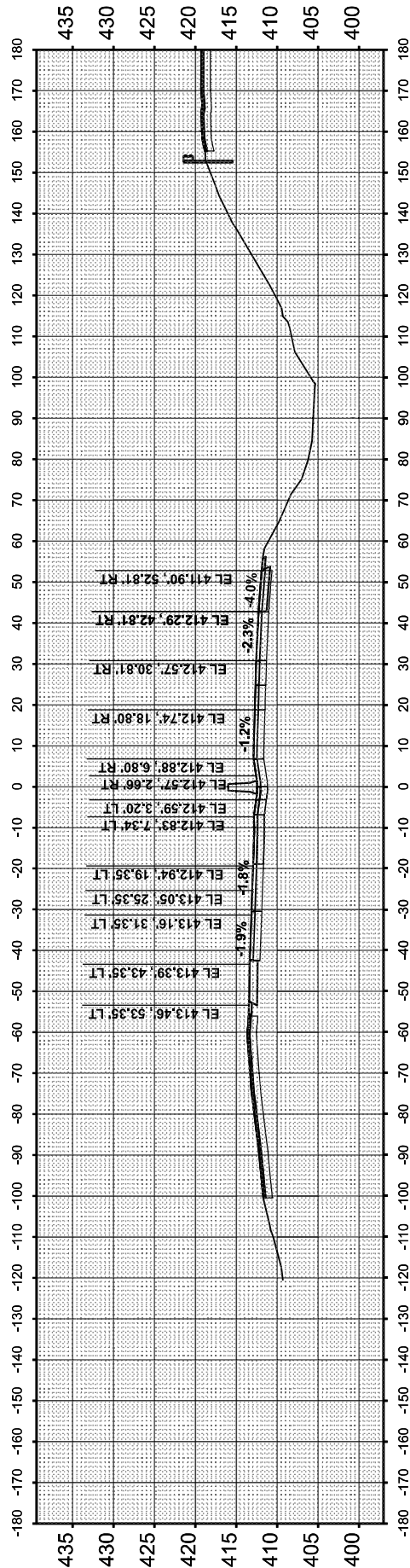
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STA 101+00.00



STA 100+00.00



STA 99+00.00



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DESIGNED	- MS
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CHECKED	- MS
DATE	- 2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'

SHEET 3 OF 46 SHEETS

STA.

TO STA.

CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(4,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	589
CONTRACT NO. 76E84				
ILLINOIS FED.AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL: \$MODEL\$NAMES
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Suite 1600
Chicago, IL 60661
(312) 251-3000

USER NAME	= jacobspw18ks01S	DESIGNED	- MS
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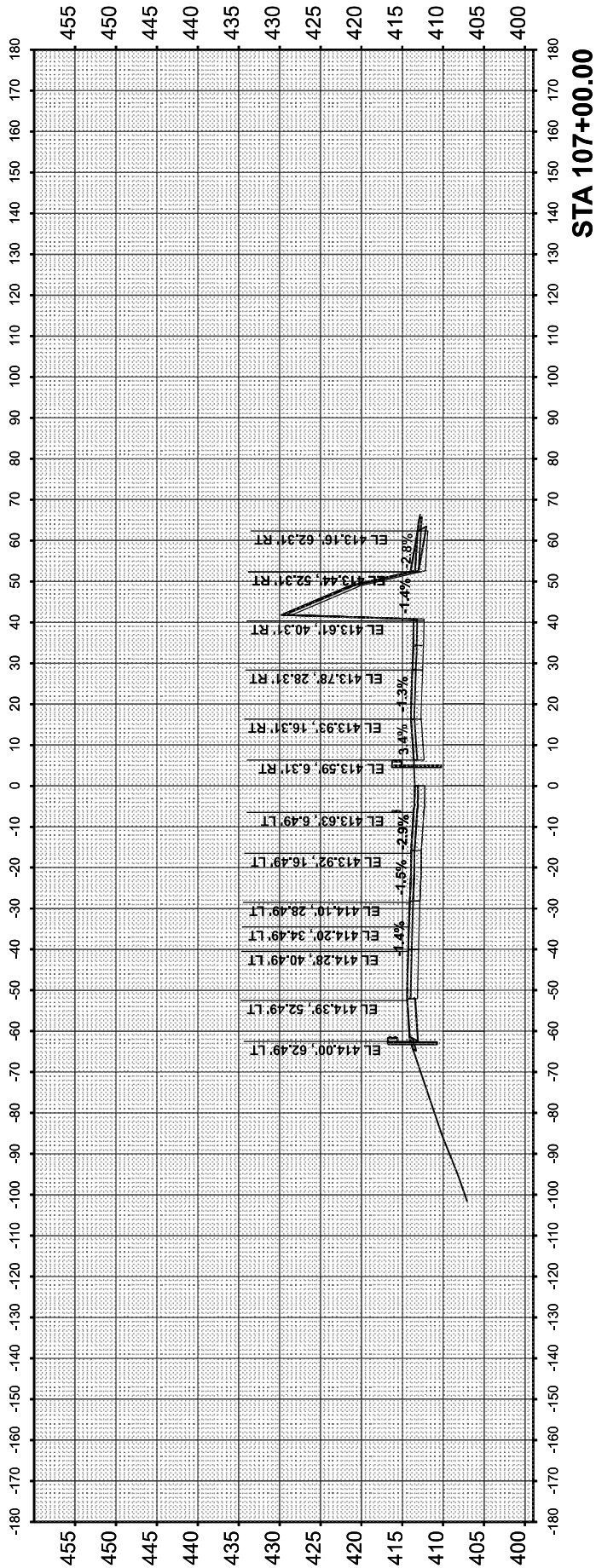
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

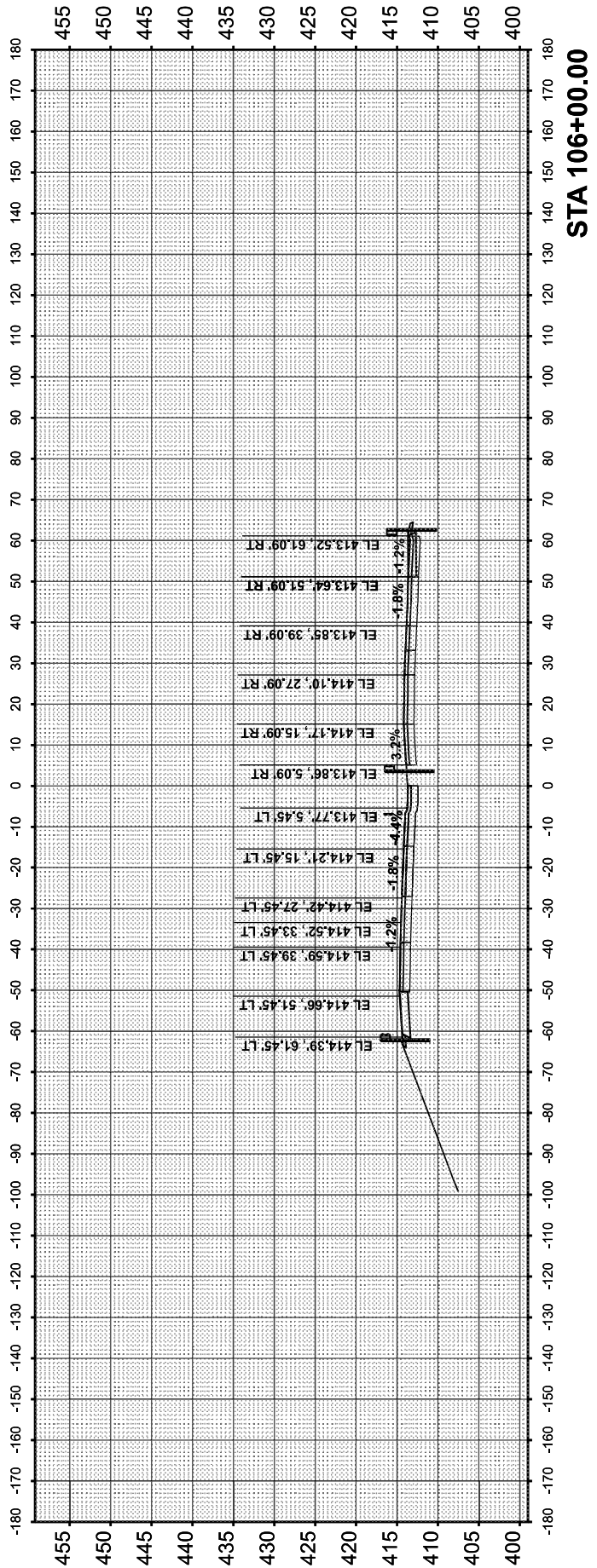
CROSS SECTION
I-55 / I-70

SCALE: 1"=20' SHEET 4 OF 46 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	590
CONTRACT NO. 76E84				
ILLINOIS		FED. AID PROJECT		



STA 107+00.00



STA 106+00.00

BRIDGE OMISSION
SEE SN 082-0018 AND 082-0019

STA 105+00.00

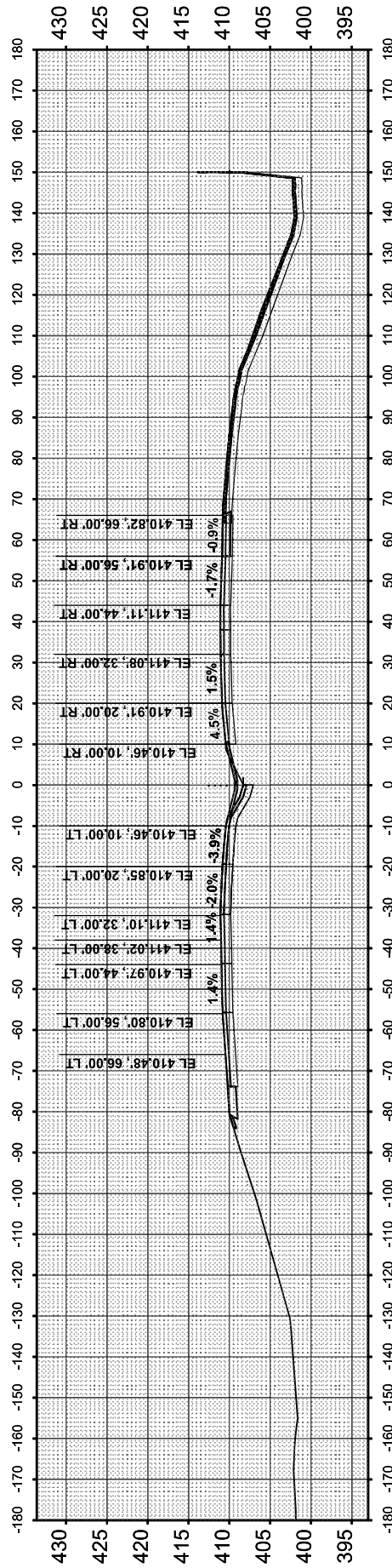
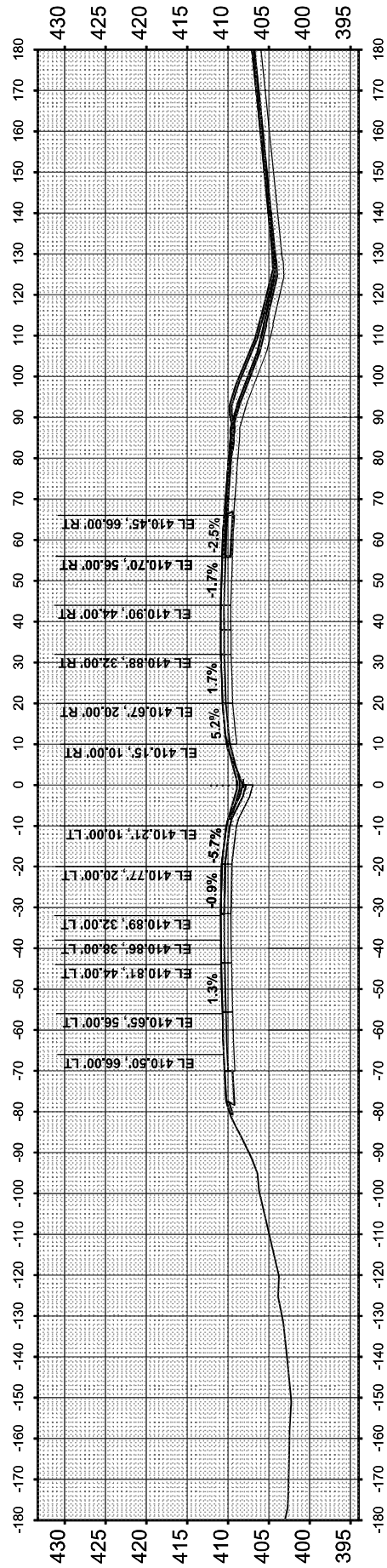
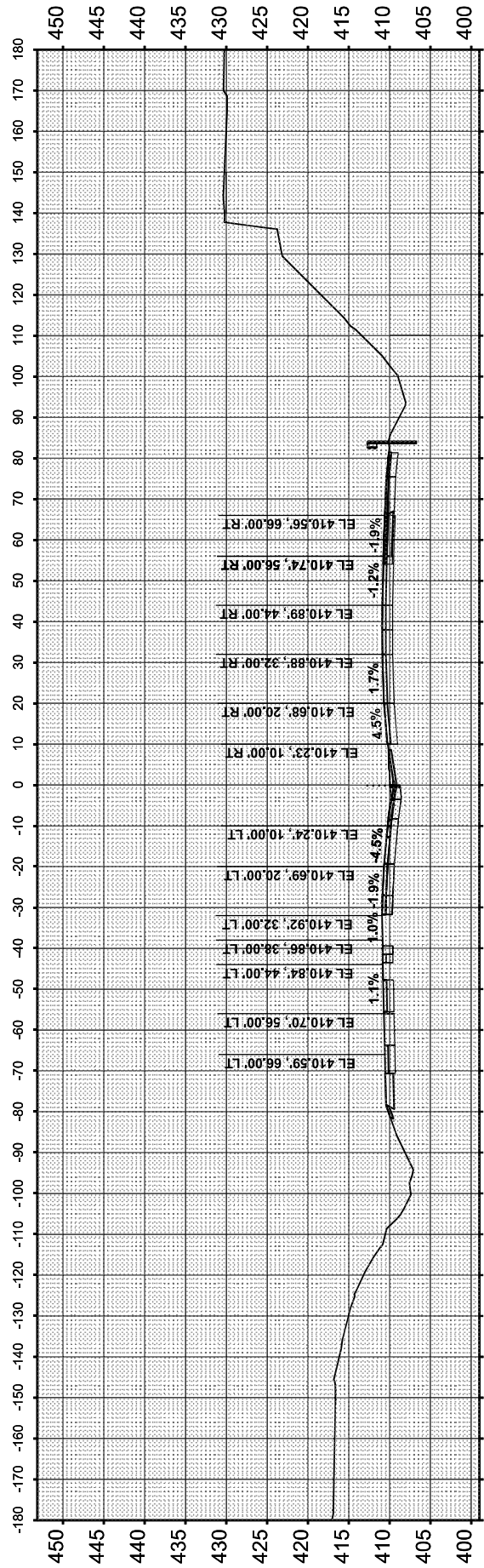
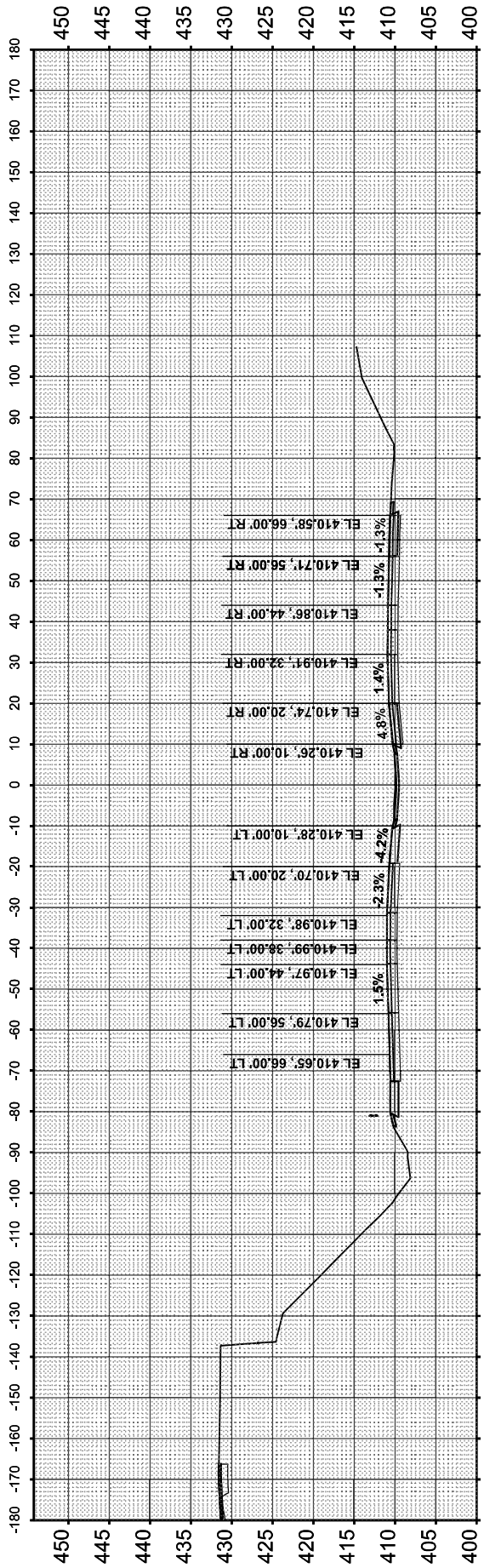
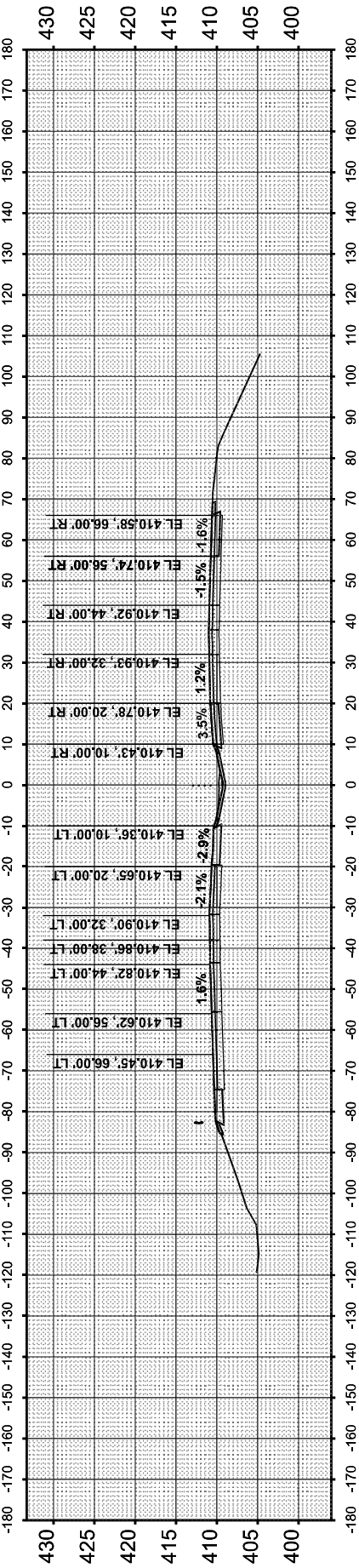
BRIDGE OMISSION
SEE SN 082-0018 AND 082-0019

STA 104+00.00

FINAL SURVEY NO.	SURVEYED PLOTTED NO.	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NO.	BY	DATE

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DRAWN	-	MS
CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'

SHEET 6 OF 46 SHEETS STA.

TO STA.

CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(4,5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	592
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

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525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

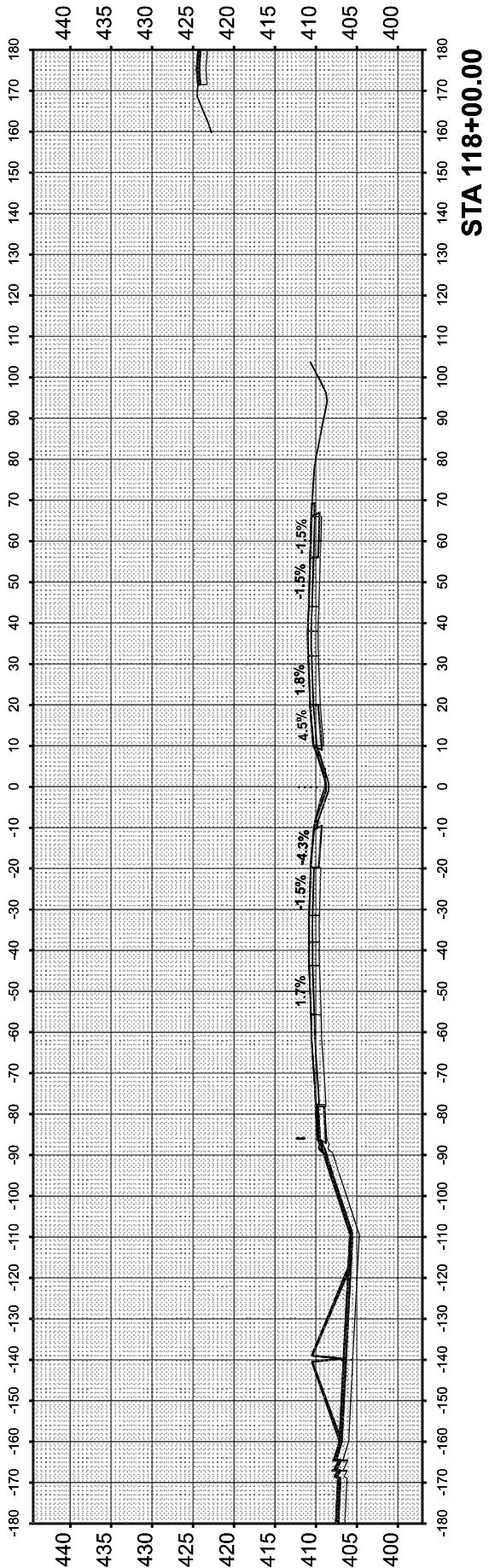
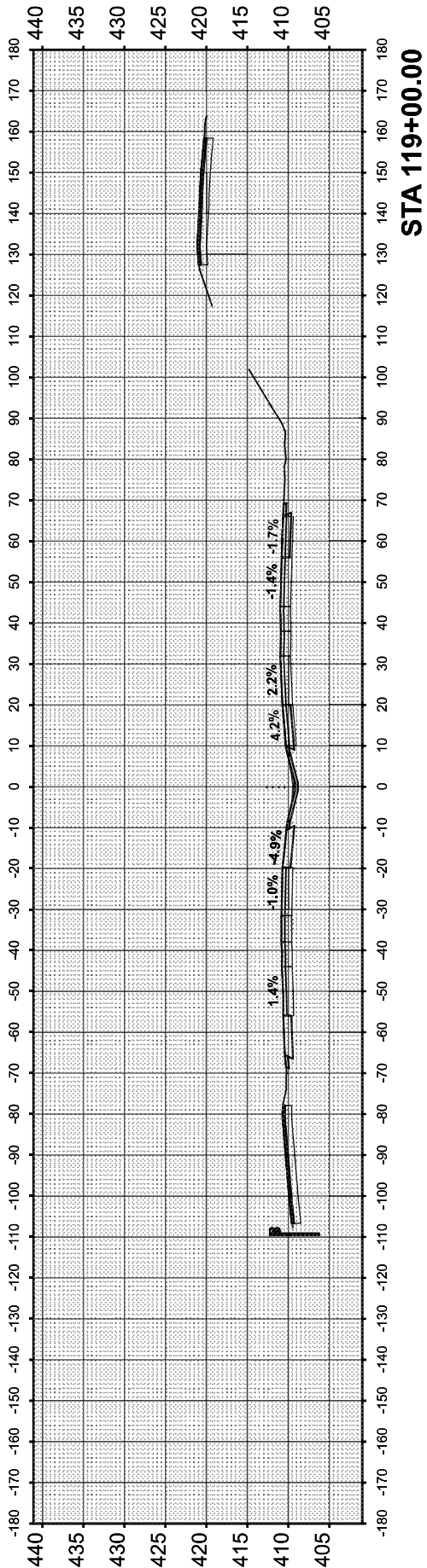
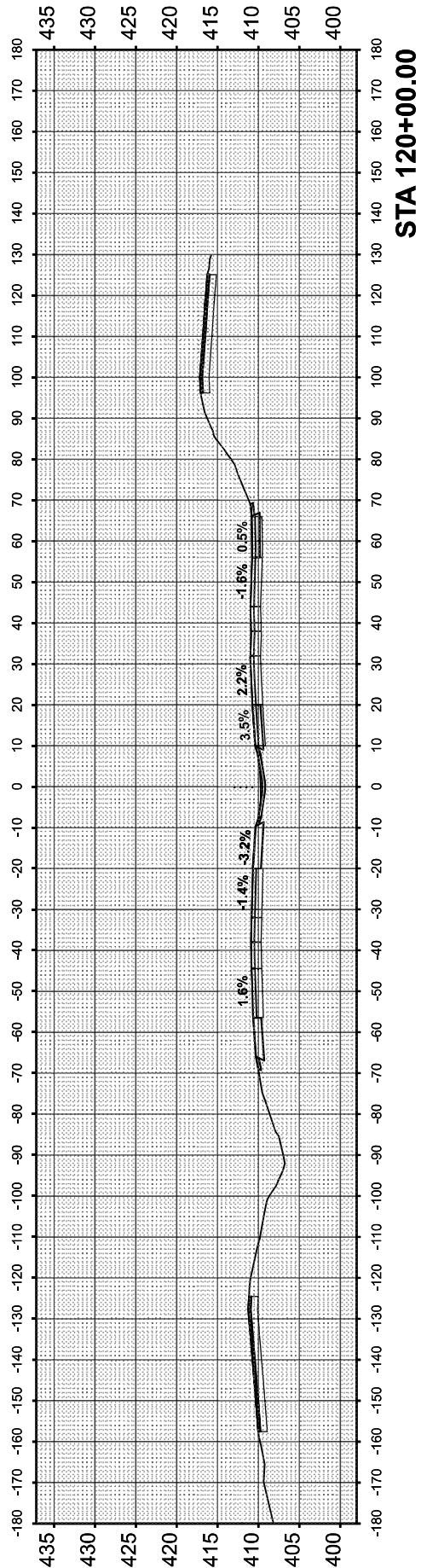
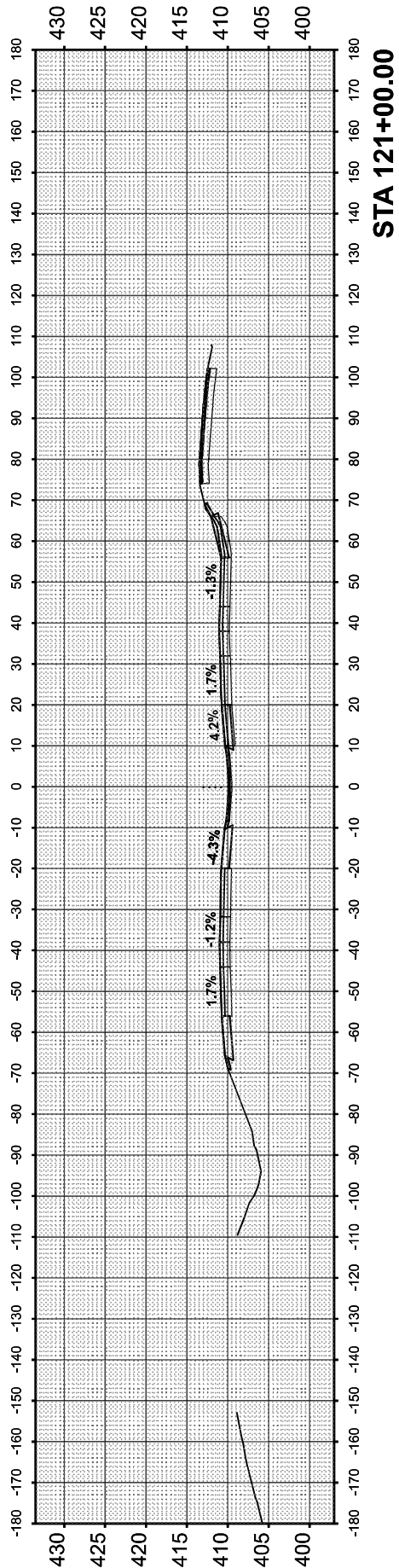
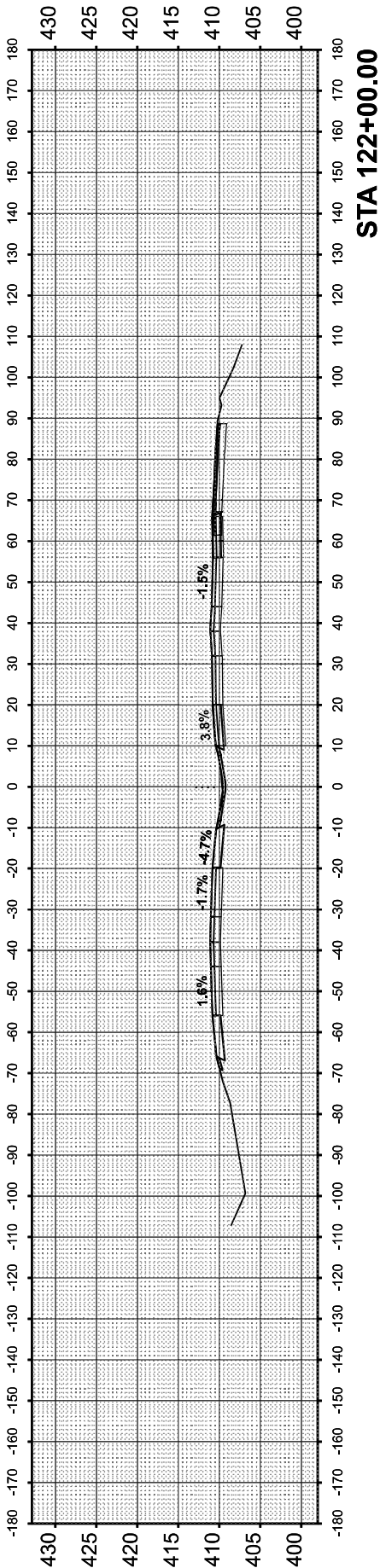
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PLOT DATE = 10/2/2025	DATE - 2025/10/03	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 / I-70

SCALE: 1"=20' SHEET 7 OF 46 SHEETS STA. TO STA.

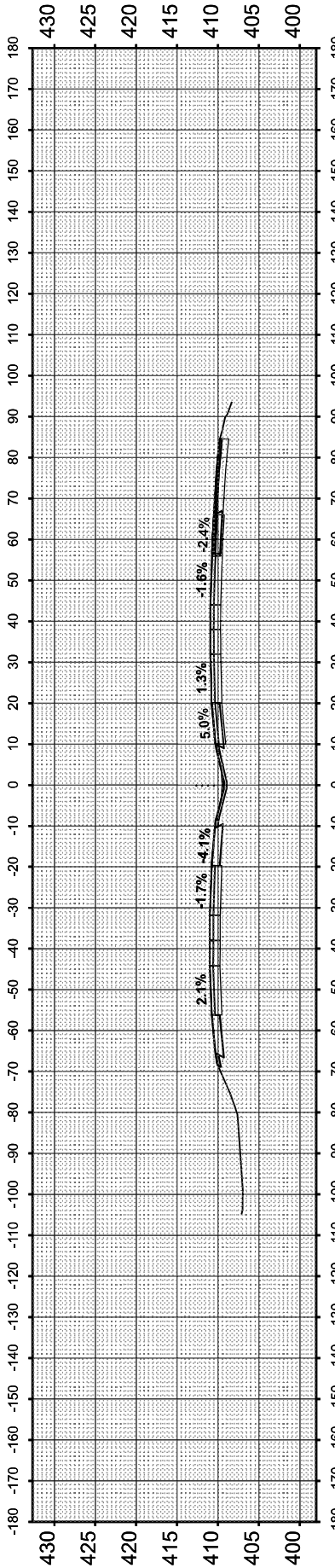
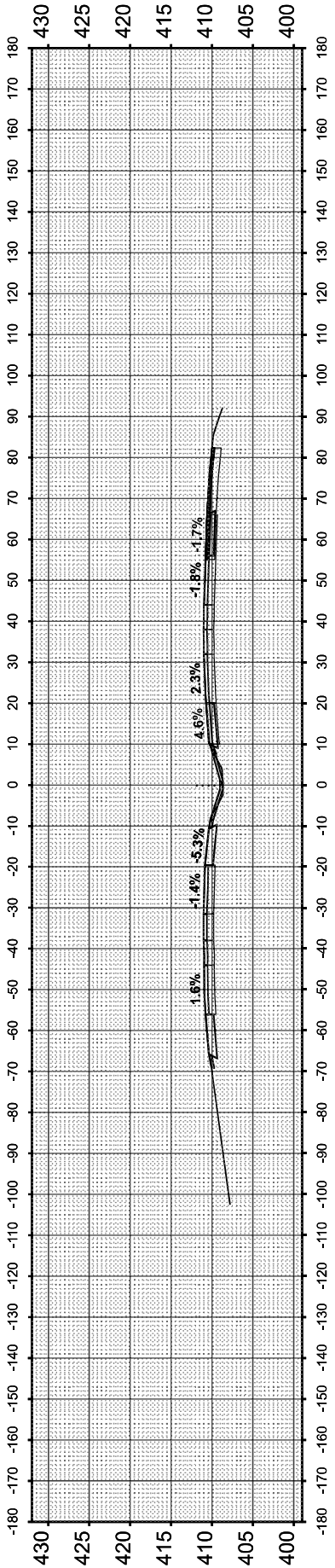
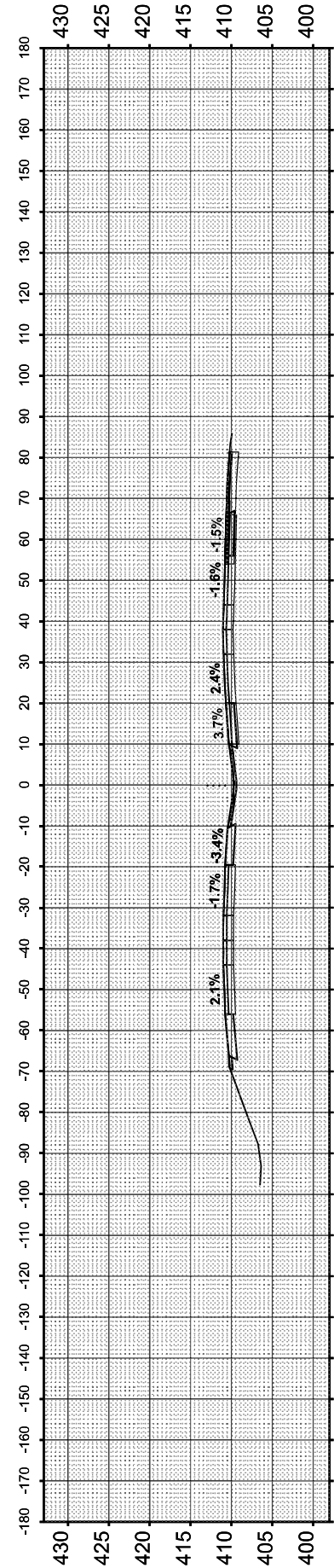
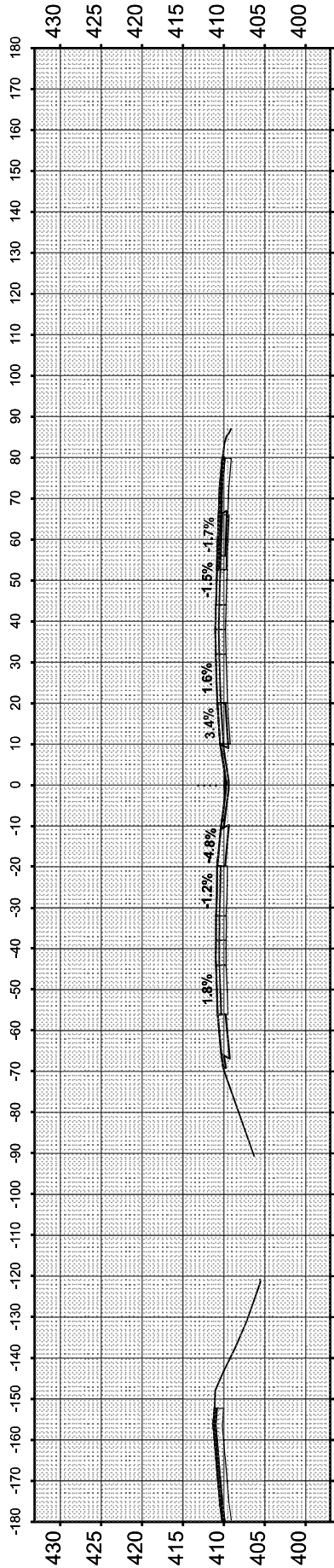
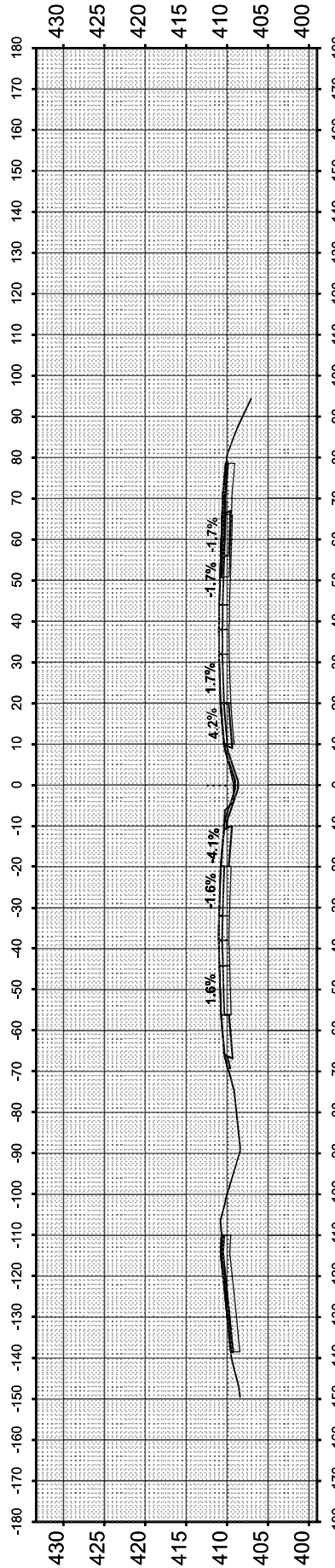
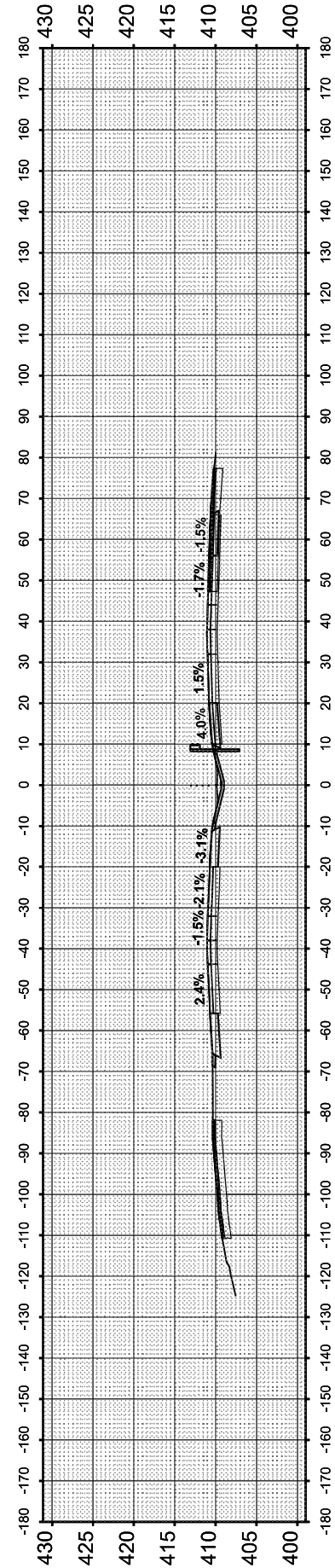
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	593
CONTRACT NO. 76E84				
ILLINOIS		FED.AID PROJECT		



FINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED NOTE BOOK	PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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PLOT DATE = 10/2/2025

DESIGNED - MS
DRAWN - MS
CHECKED - MS
DATE - 2025/10/03

REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 / I-70

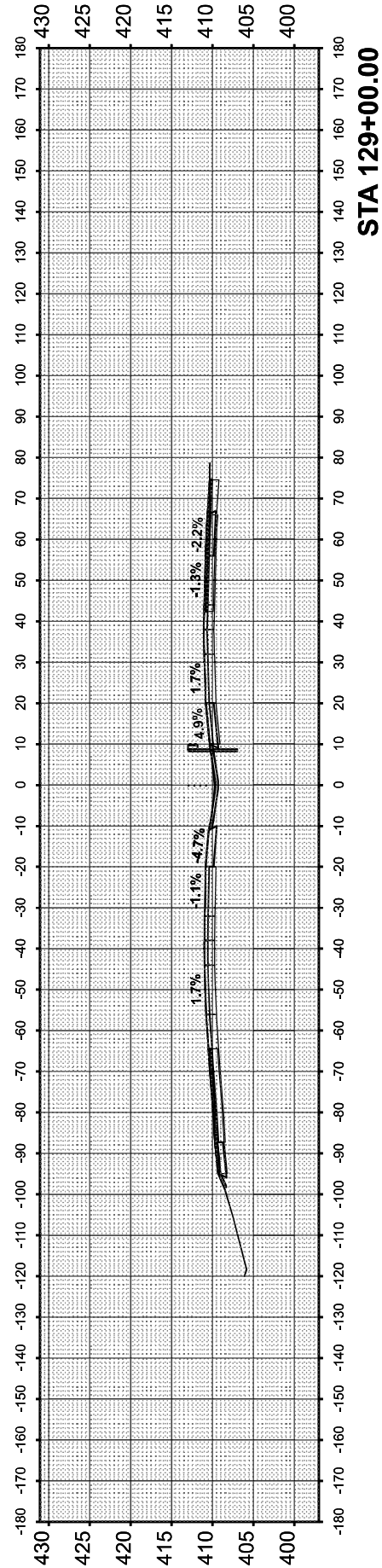
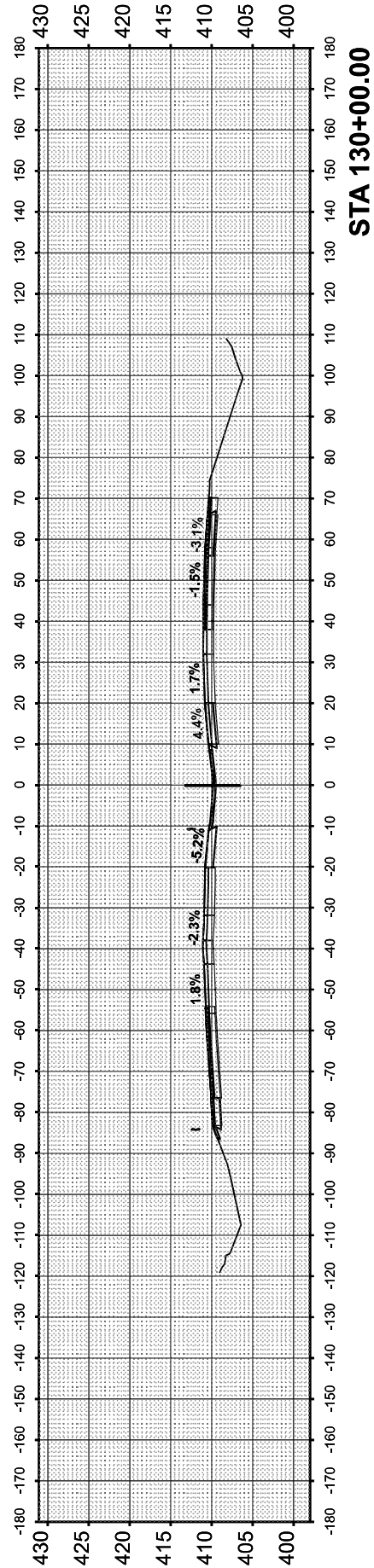
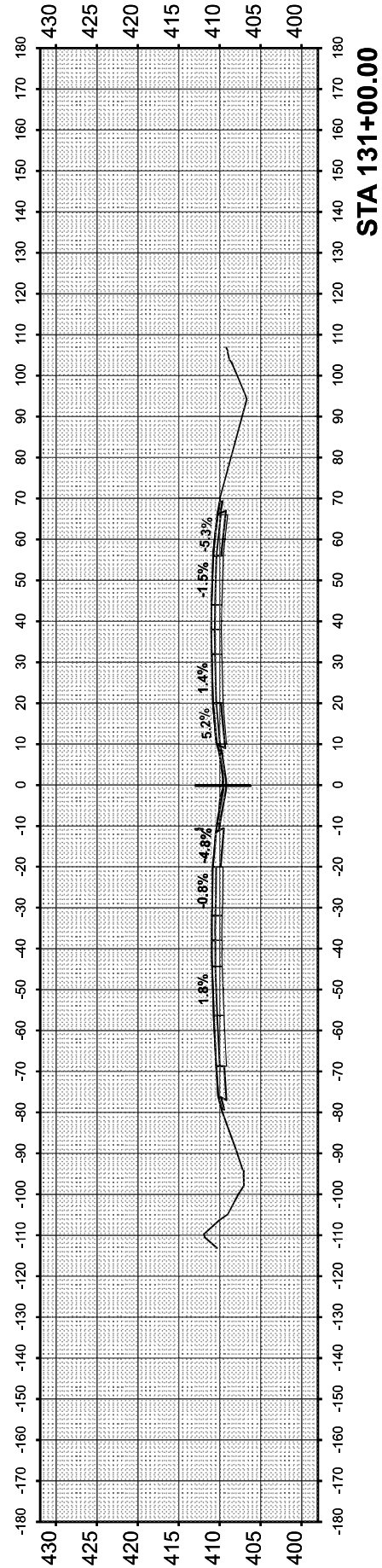
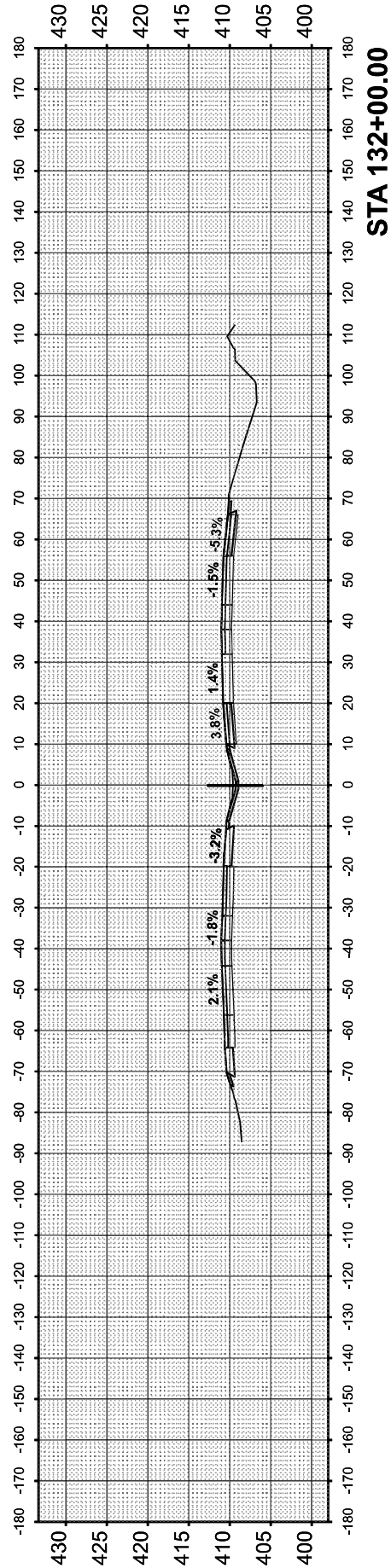
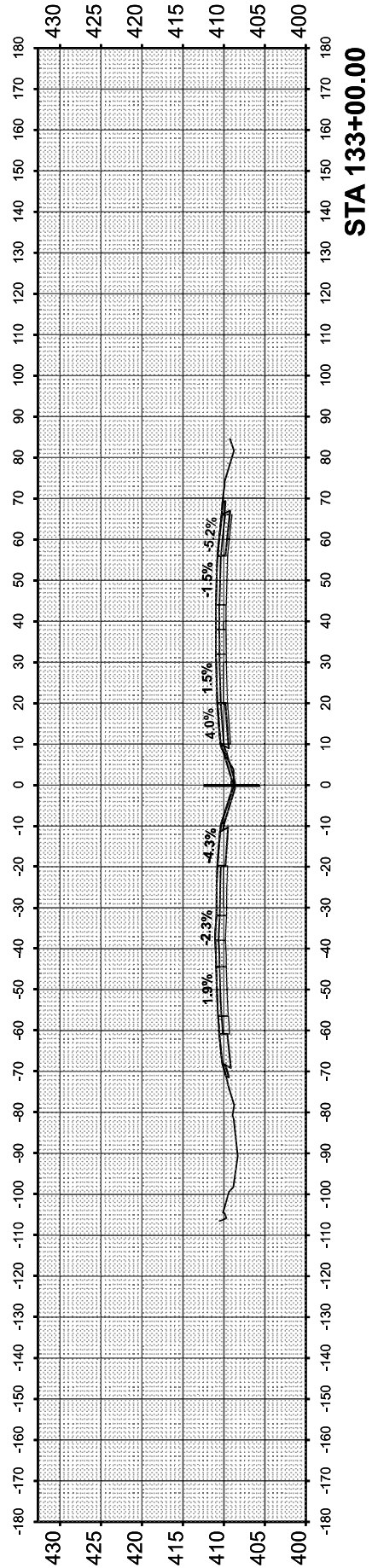
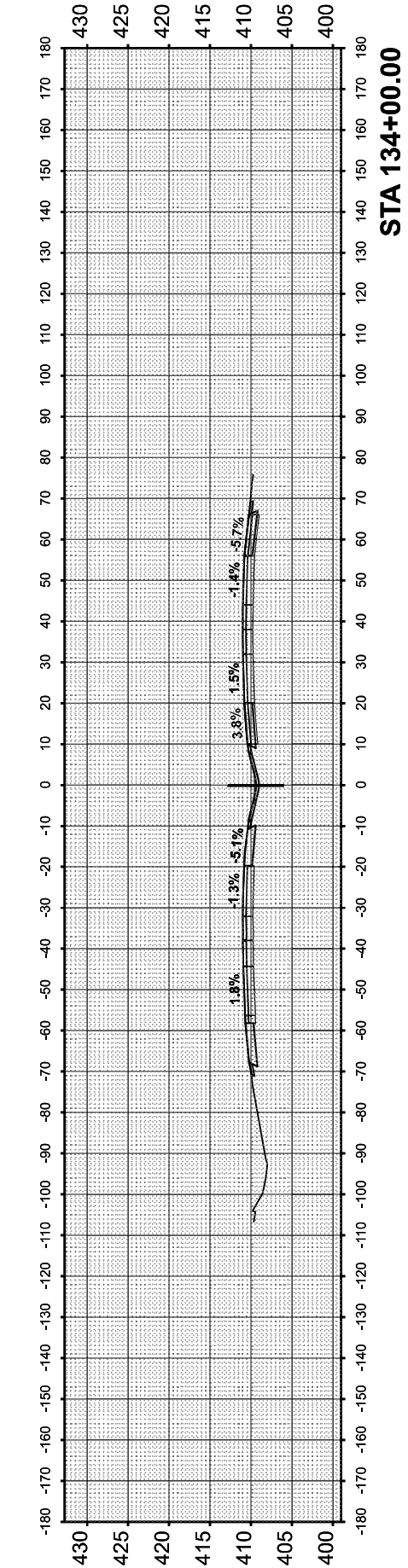
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-4(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	594
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

ORIGINAL		SURVEYED		BY		DATE	
SURVEY		PLOTTED					
NOTE BOOK		TEMPLATE					
NO.		AREAS CHECKED					
		AREAS CHECKED					

ORIGINAL		SURVEYED		BY		DATE	
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NOTE BOOK		TEMPLATE					
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CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'

SHEET 9 OF 46 SHEETS

STA.

TO STA.

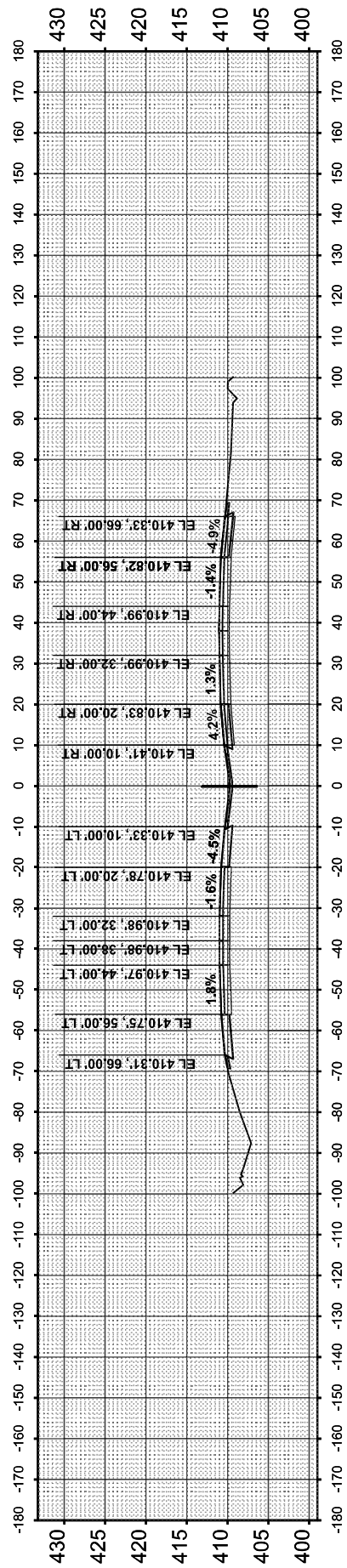
CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	595
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

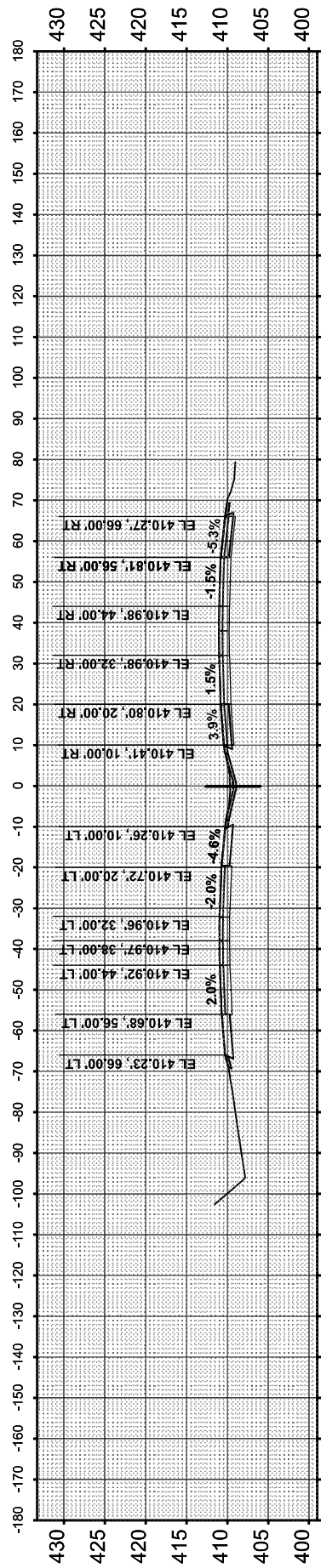
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	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
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	PLOTTED _____		
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	AREAS _____		
NOTE BOOK	AREAS CHECKED _____	NO. _____	

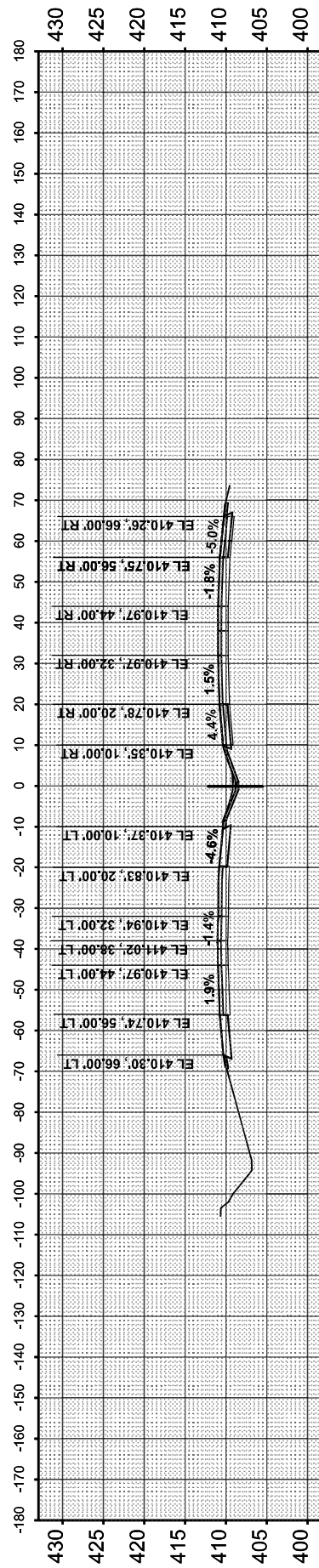
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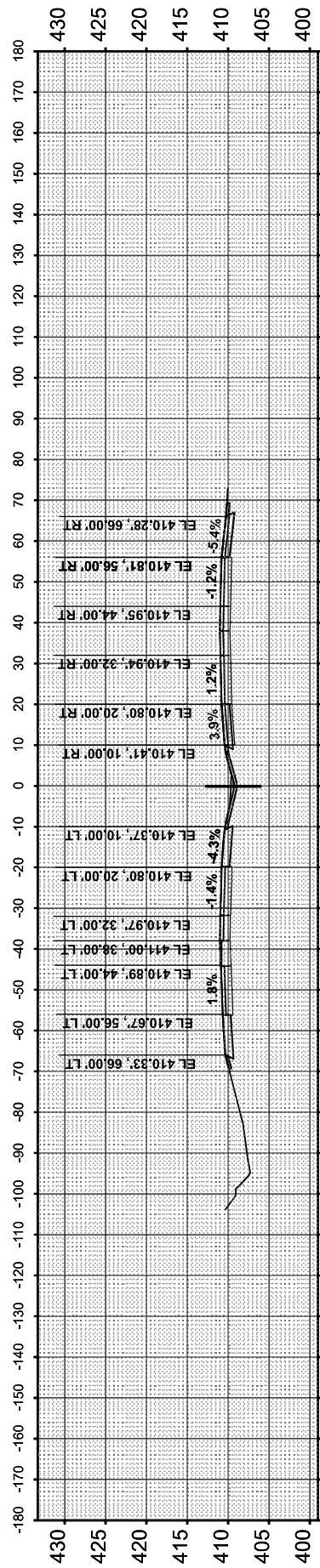
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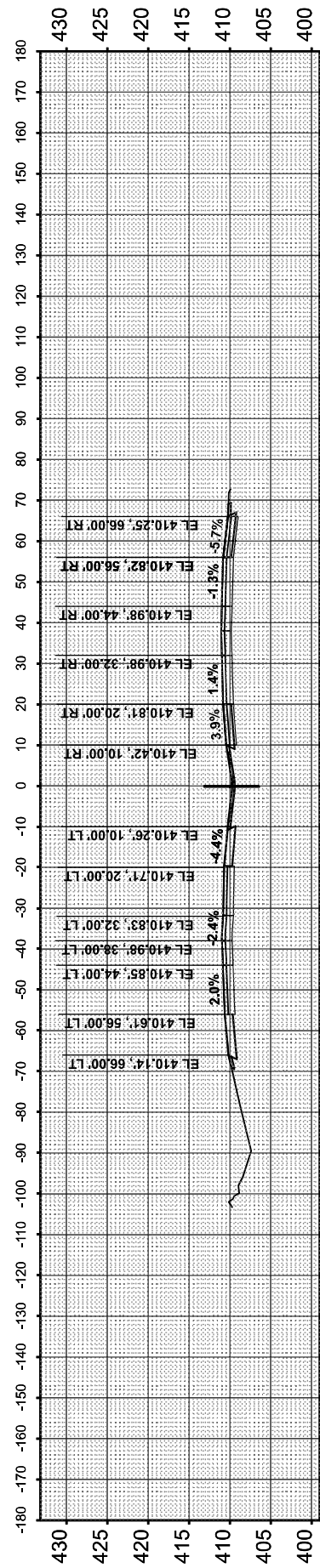
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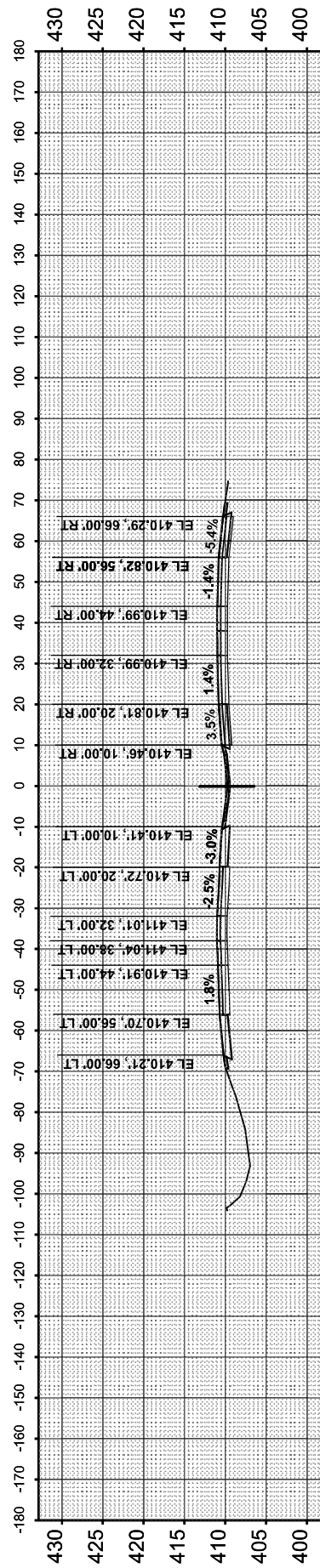
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STA 164+00.00



STA 163+20.26



STA 135+00.00



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PLOT DATE	= 10/2/2025

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DRAWN	-	MS
CHECKED	-	MS
DATE	-	2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CROSS SECTION
I-55 / I-70**

SCALE: 1"=20'

SHEET 10

46 SHEETS

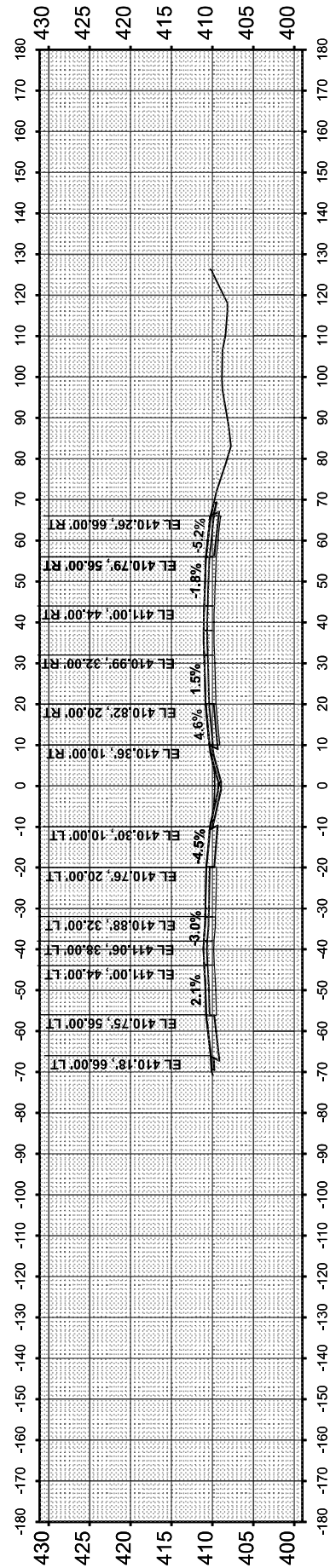
TO STA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	596
		CONTRACT NO. 76E84		
		ILLINOIS EED AID PROJECT		

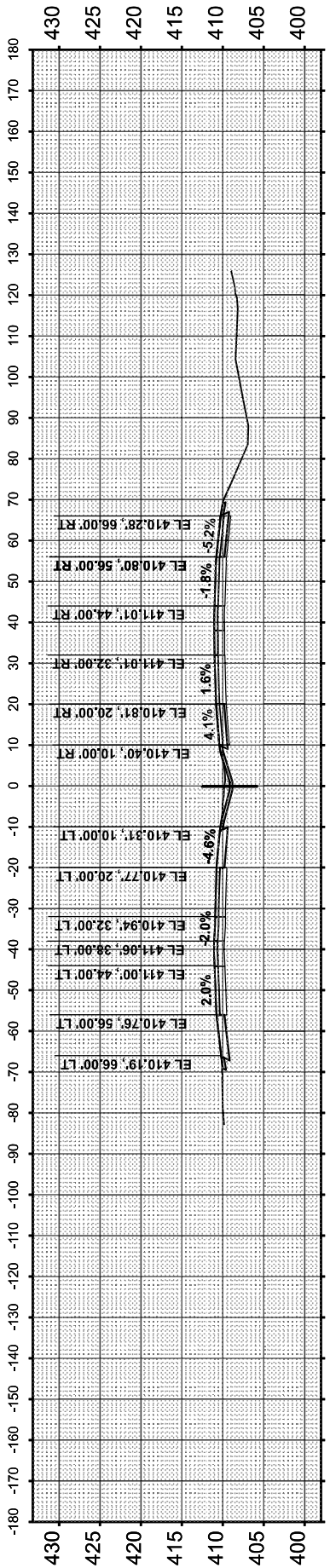
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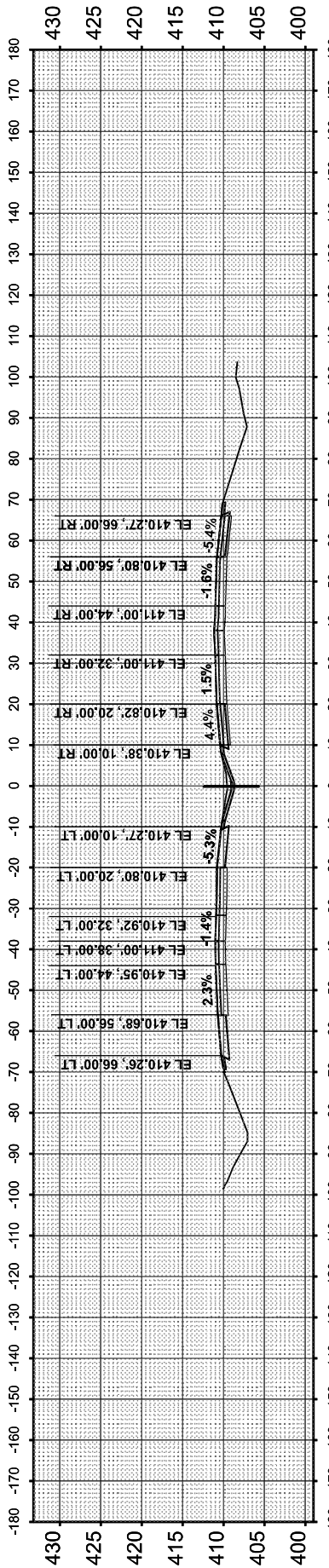
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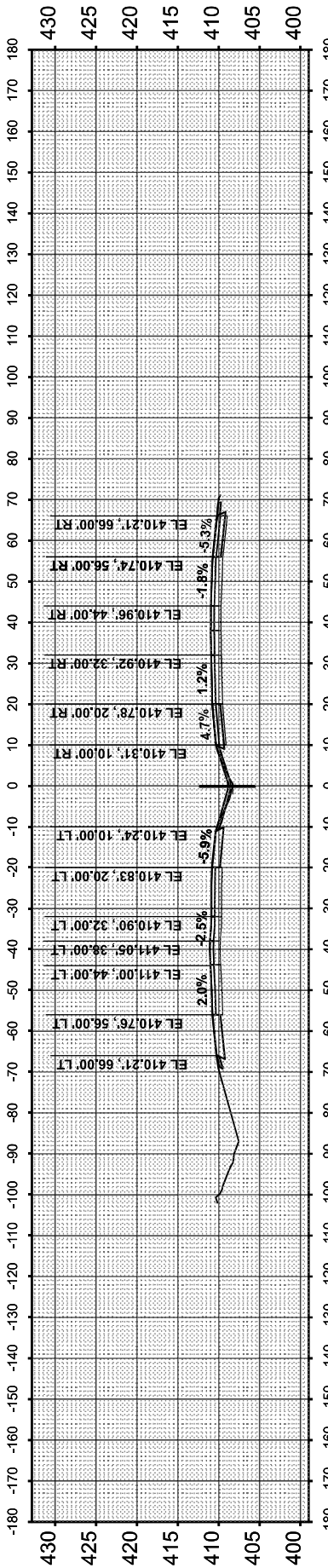
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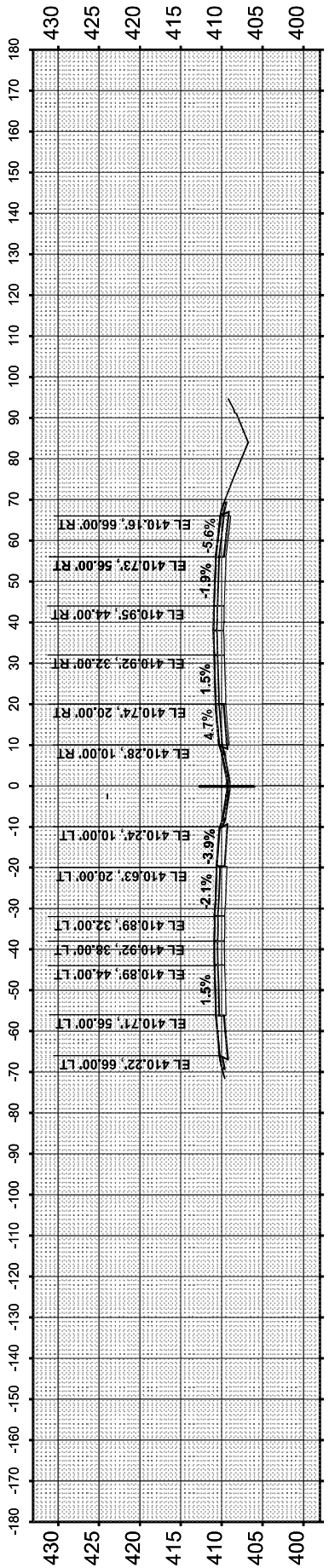
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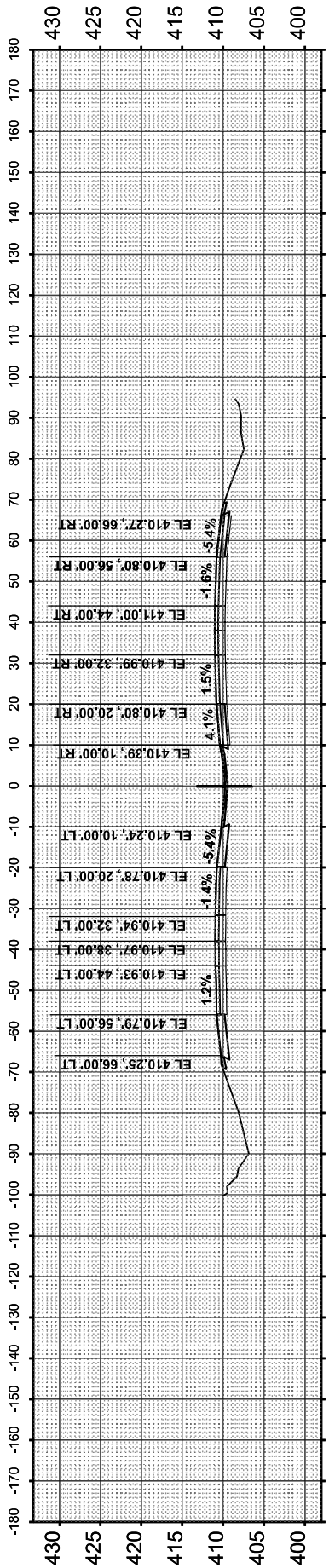
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STA 170+00.00



STA 169+00.00



STA 168+00.00



USER NAME = jacobspw18ics04\$
PLOT SCALE = 0.16666633' / in.
PLOT DATE = 10/2/2025

DESIGNED - MS
DRAWN - MS
CHECKED - MS
DATE - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'

SHEET 11 OF 46 SHEETS

STA.

TO STA.

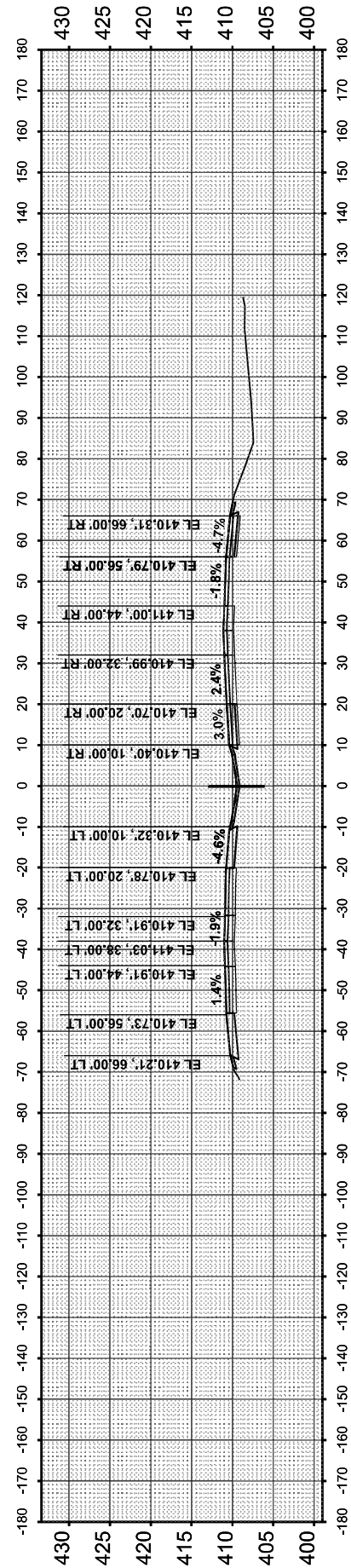
CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	597
CONTRACT NO. 76E84				
ILLINOIS FED.AID PROJECT				

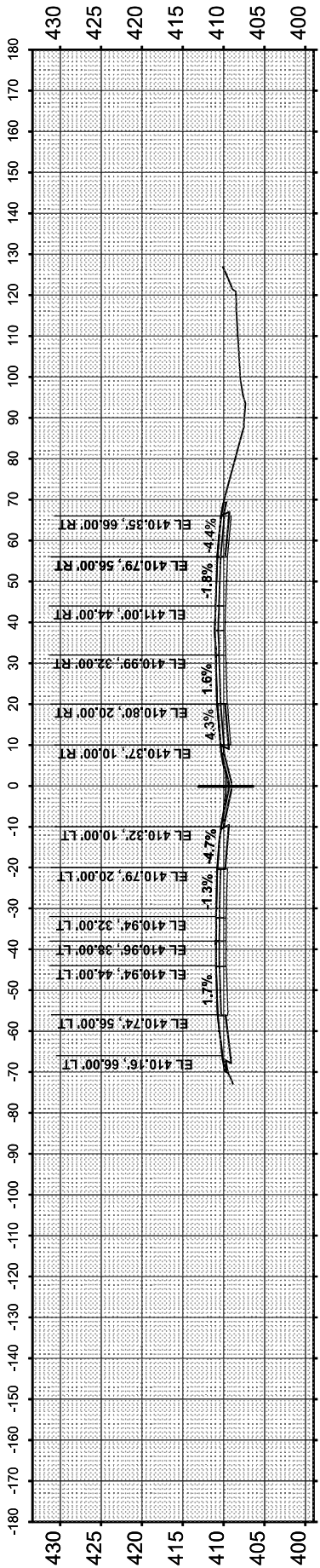
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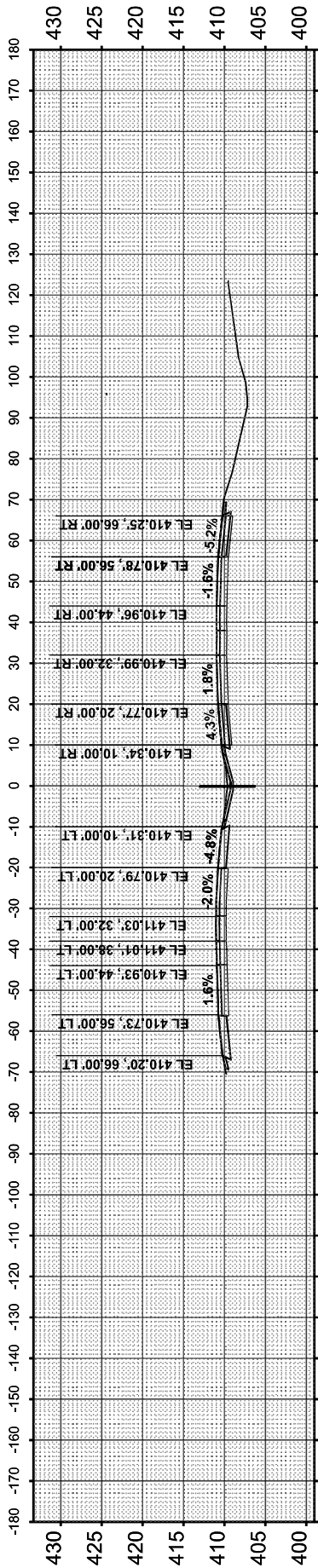
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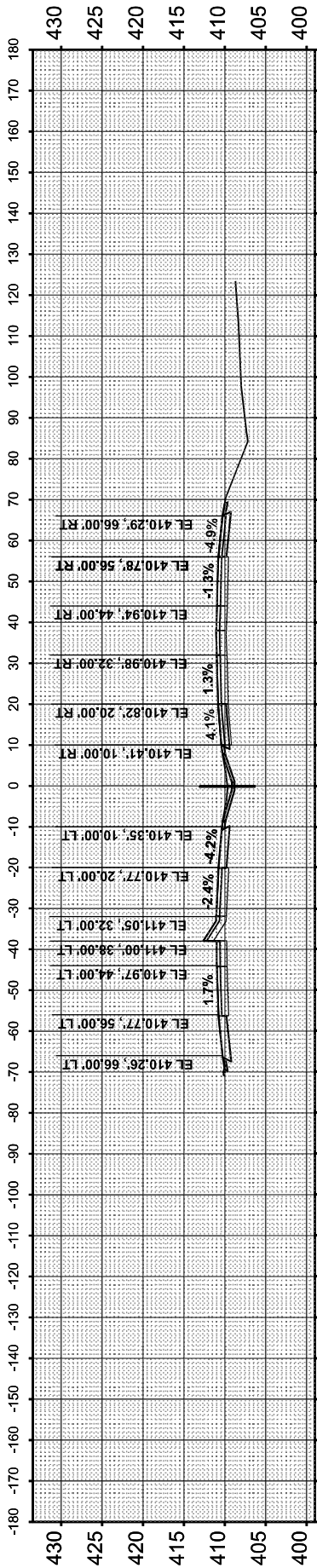
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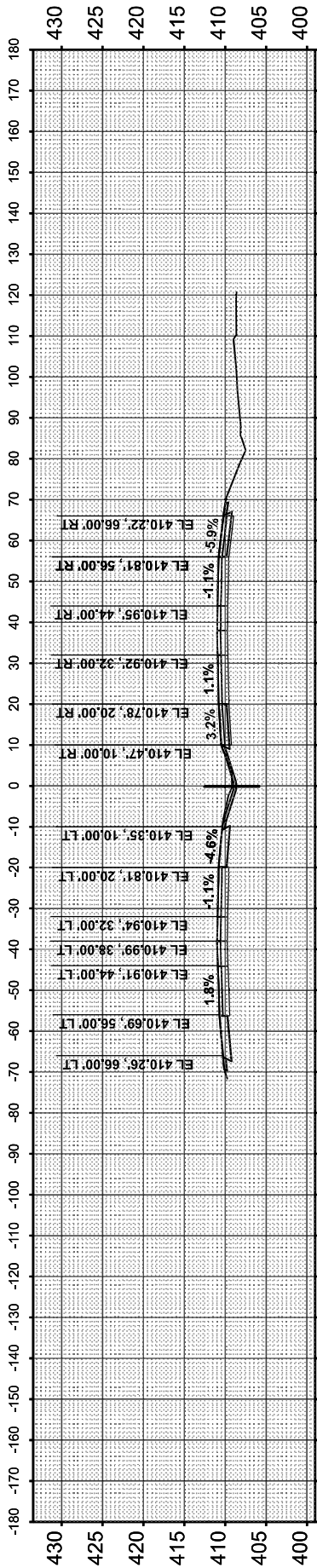
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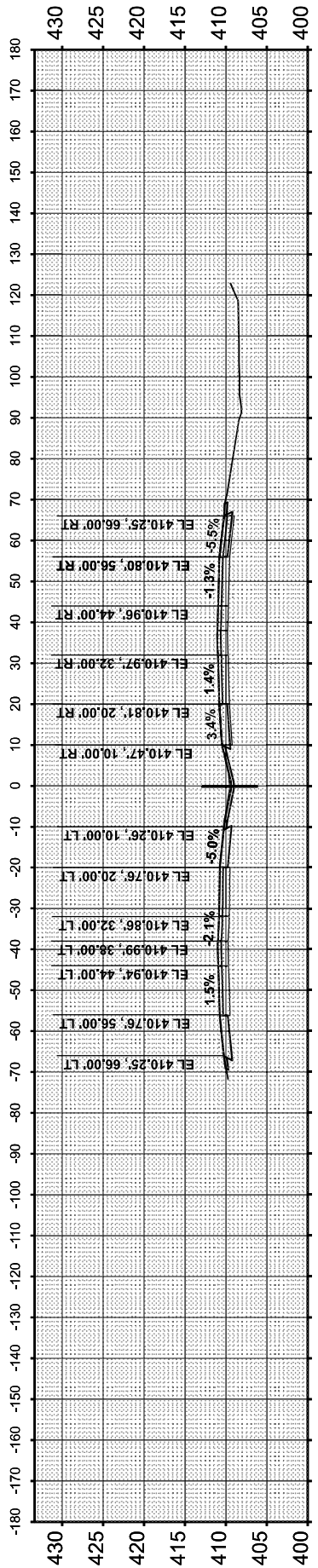
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STA 176+00.00



STA 175+00.00



STA 174+00.00



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PLOT DATE = 10/2/2025

DESIGNED - MS
DRAWN - MS
CHECKED - MS
DATE - 2025/10/03

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20' SHEET 12 OF 46 SHEETS STA. TO STA.

CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82-4(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	598
CONTRACT NO. 76E84				
ILLINOIS FED.AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

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525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

USER NAME	= jacobsprw18ics04\$
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PLOT DATE	= 10/2/2025

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DRAWN	- MS
CHECKED	- MS
DATE	- 2025/10/03

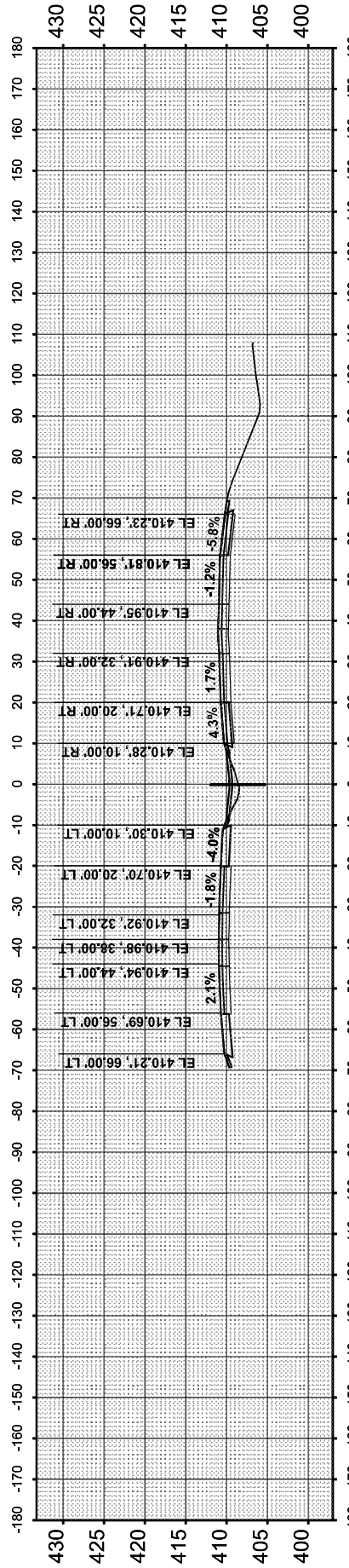
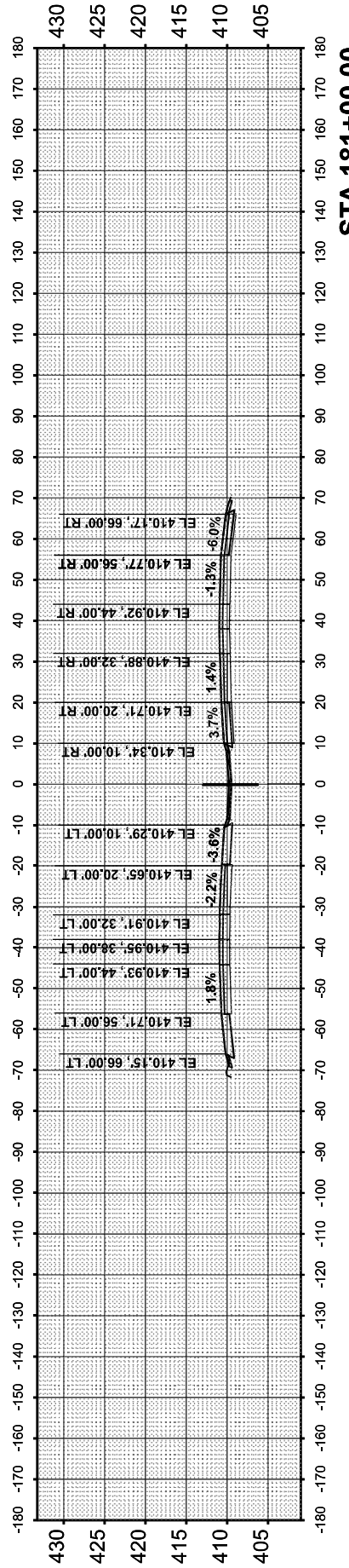
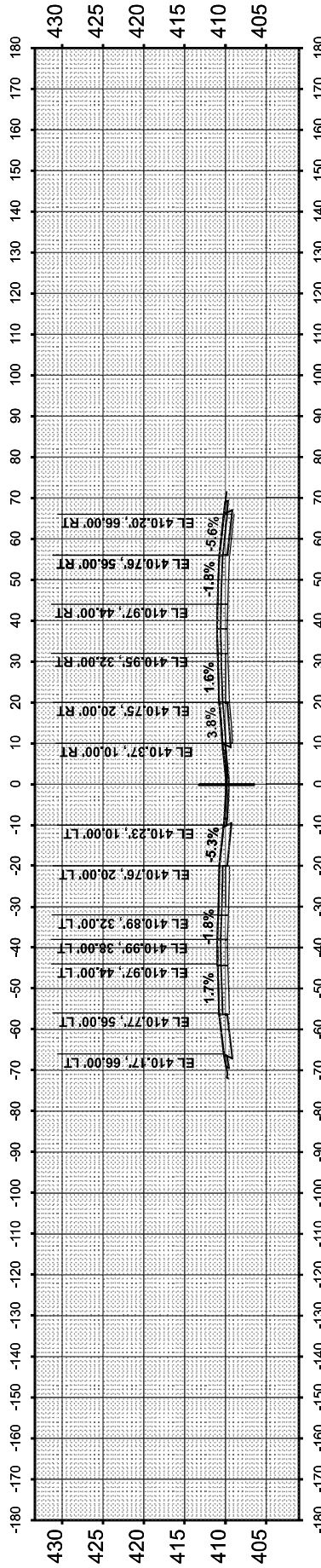
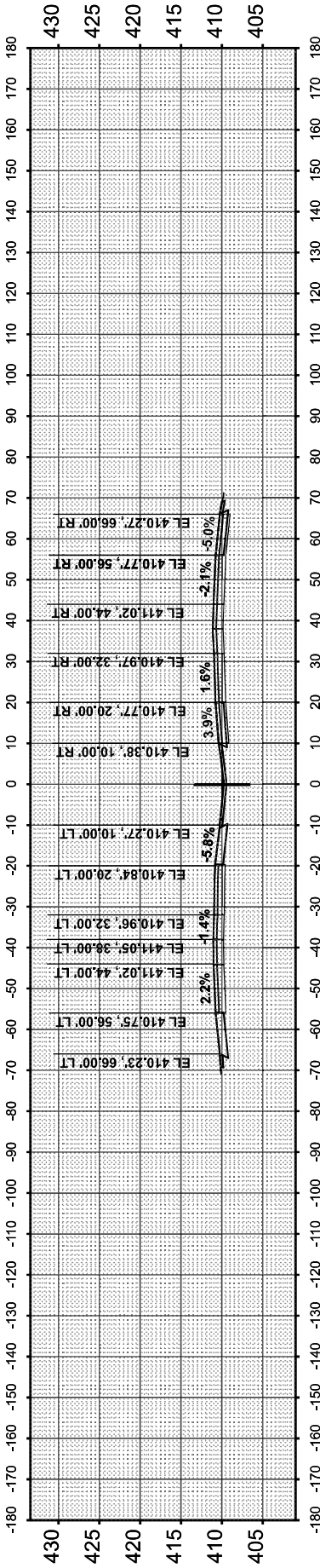
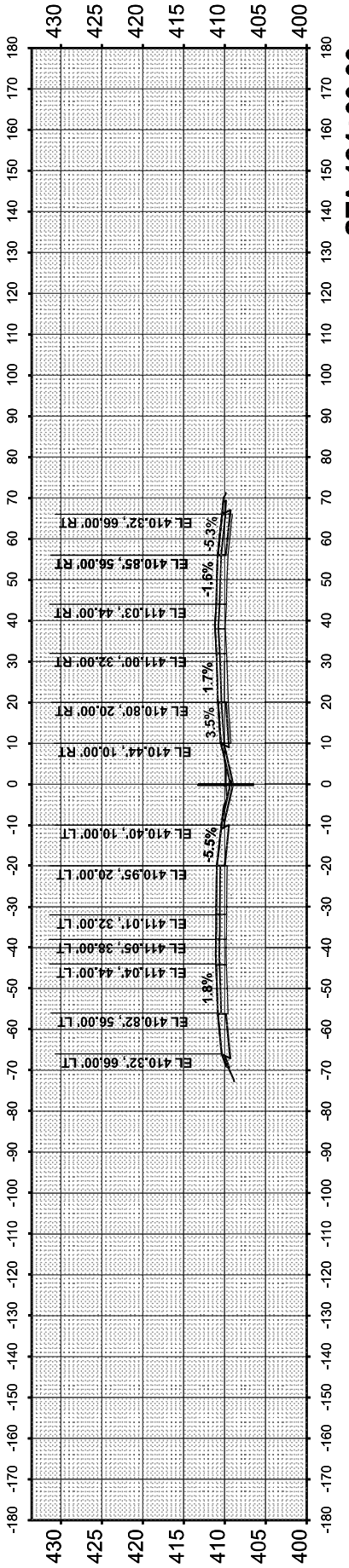
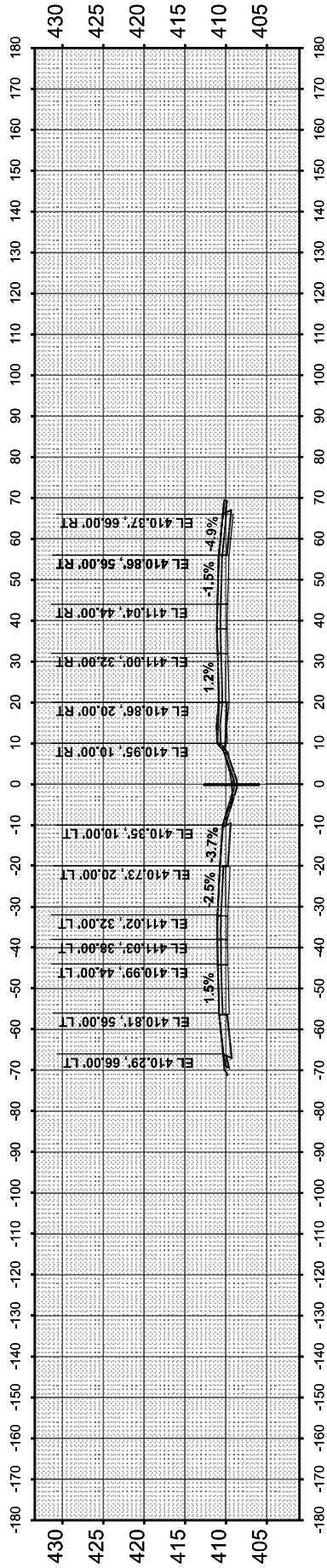
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
I-55 / I-70

SCALE: 1"=20' SHEET 13 OF 46 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section824(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	599
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

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525 West Monroe
Suite 1600
Chicago, IL 60661
(312) 251-3000

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PLOT SCALE	= 0.16666633' / in.
PLOT DATE	= 10/2/2025

DESIGNED	- MS
DRAWN	- MS
CHECKED	- MS
DATE	- 2025/10/03

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20' SHEET 14 OF 46 SHEETS STA. TO STA.

CROSS SECTION
I-55 / I-70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	Section82(5,6)RS-2, 60-6RS-2	MADISON & ST. CLAIR	678	600
CONTRACT NO. 76E84				
ILLINOIS FED. AID PROJECT				

