

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM 2026-1	VERMILION	9	1
		ILLINOIS	CONTRACT NO. 70H72	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

PROPOSED HIGHWAY PLANS

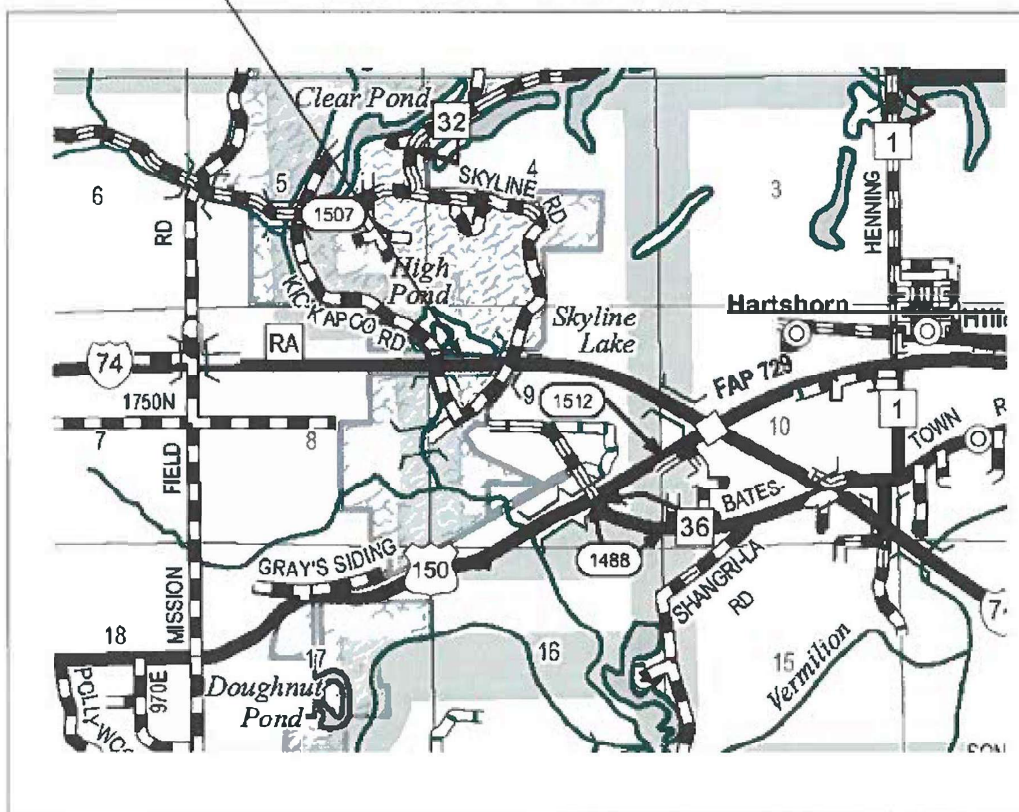
FAI ROUTE 74 (I-74)
SECTION MBPM 2026-1
PROJECT N/A
WING WALL REPAIR
VERMILION COUNTY

C-95-013-26

TRAFFIC DATA

	I-74
2025 ADT	27,000
2035 ADT	28,400
2045 AM D	1,740
2045 PM D	2,350
PV + PC%	70.3
SU%	3.4
MU%	26.3

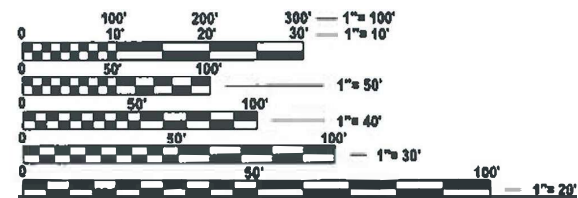
S.N. 092-8600
STA. 1638+50.00
WING WALL REPAIR



T 19 N

R 12 W

GROSS LENGTH = 50.00 FT. = 0.009 MILE
NET LENGTH = 50.00 FT. = 0.009 MILE



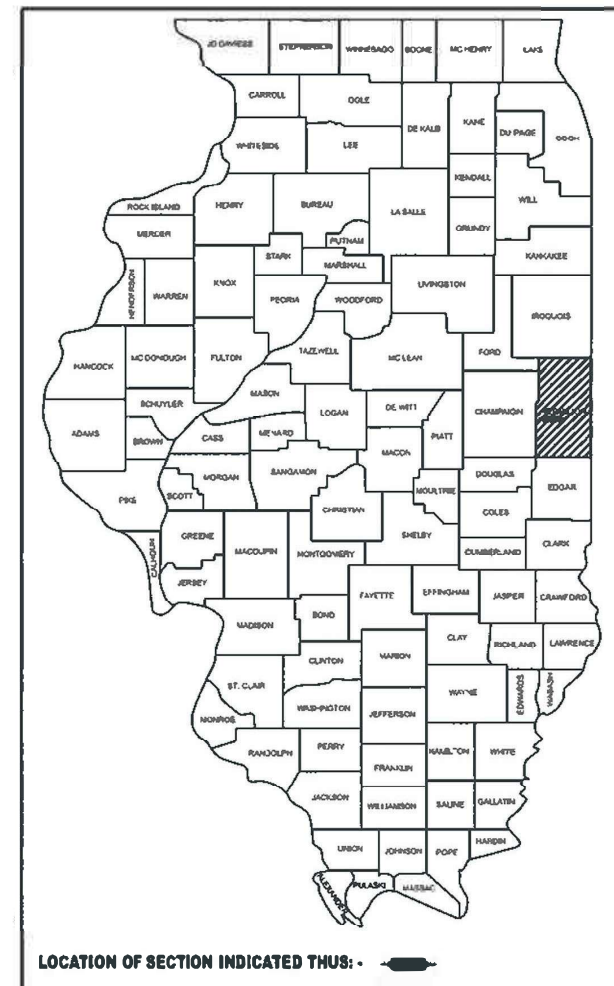
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM BRANDENBURG
PROJECT MANAGER: JEFF M. SHERER

CONTRACT NO. 70H72

D-95-007-26



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 21, 2026
[Signature]
REGIONAL ENGINEER
March 20, 2026
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
March 20, 2026
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>ITEM</u>
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS/ GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	STRUCTURE REPAIR PLANS
6-7	BORING LOGS
8-9	AS-BUILT PLAN SHEETS

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701400-12	APPROACH TO LANE CLOSURE FREEWAY/ EXPRESSWAY
701406-13	LANE CLOSURE FREEWAY/ EXPRESSWAY DAY ONLY
701901-11	TRAFFIC CONTROL DEVICES

GENERAL NOTES

G.N.-100

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

AFTER INSTALLATION OF HELICAL ANCHORS, THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS AND ALL VOIDS BEHIND THE WINGWALLS WITH EMBANKMENT OR GRANULAR MATERIAL. THIS WORK SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF FURNISHING AND PLACING MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR HELICAL GROUND ANCHORS.

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE GRADED AND SHAPED TO BLEND WITH ADJACENT SURFACES AND TO PROVIDE PROPER DRAINAGE. ANY DISTURBED AREAS SHALL BE SEEDED TO MINIMIZE EROSION. THE COST OF THIS WORK IS INCLUDED IN THE VARIOUS PAY ITEMS OF THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS/ HIGHWAY STANDARDS
GENERAL NOTES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM 2026-1	VERMILION	9	2
CONTRACT NO. 70H72				
ILLINOIS FED. AID PROJECT				

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USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/22/2025	DATE -	REVISED -

VERMILION
 FAI-74 (I-74))
 RURAL
 WINGWALL REPAIR
 S.N. 092-8600
 100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0047
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	200.0	200.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3.0	3.0
67100100	MOBILIZATION	L SUM	1.0	1.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.0	21.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28.0	28.0
X0323992	HELICAL GROUND ANCHORS	EACH	16.0	16.0
X5051205	STRUCTURAL STEEL REPAIR	POUND	850.0	850.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	1.0

* SPECIALTY ITEM

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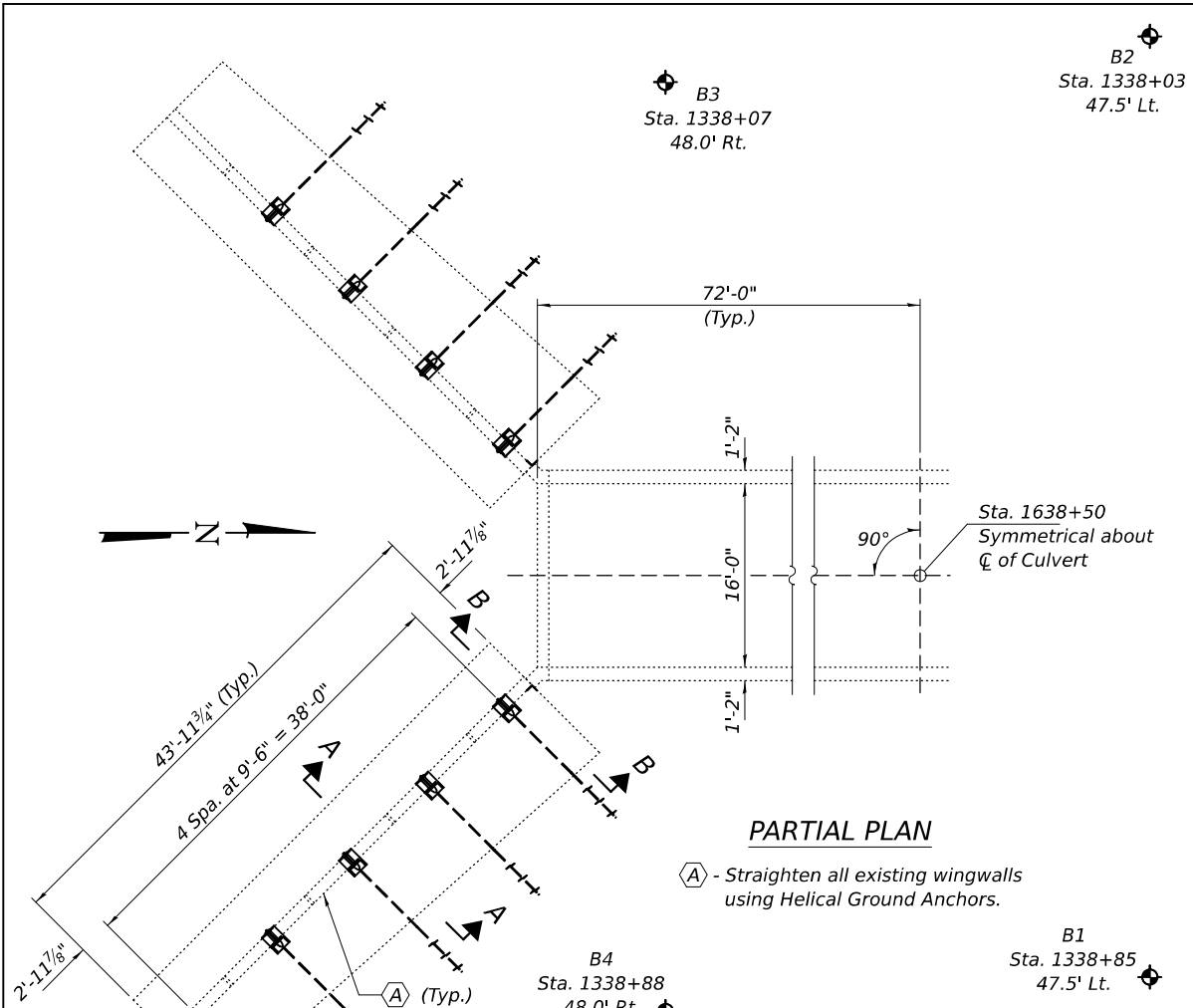
USER NAME = Jeff.Sherer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/22/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY QUANTITIES

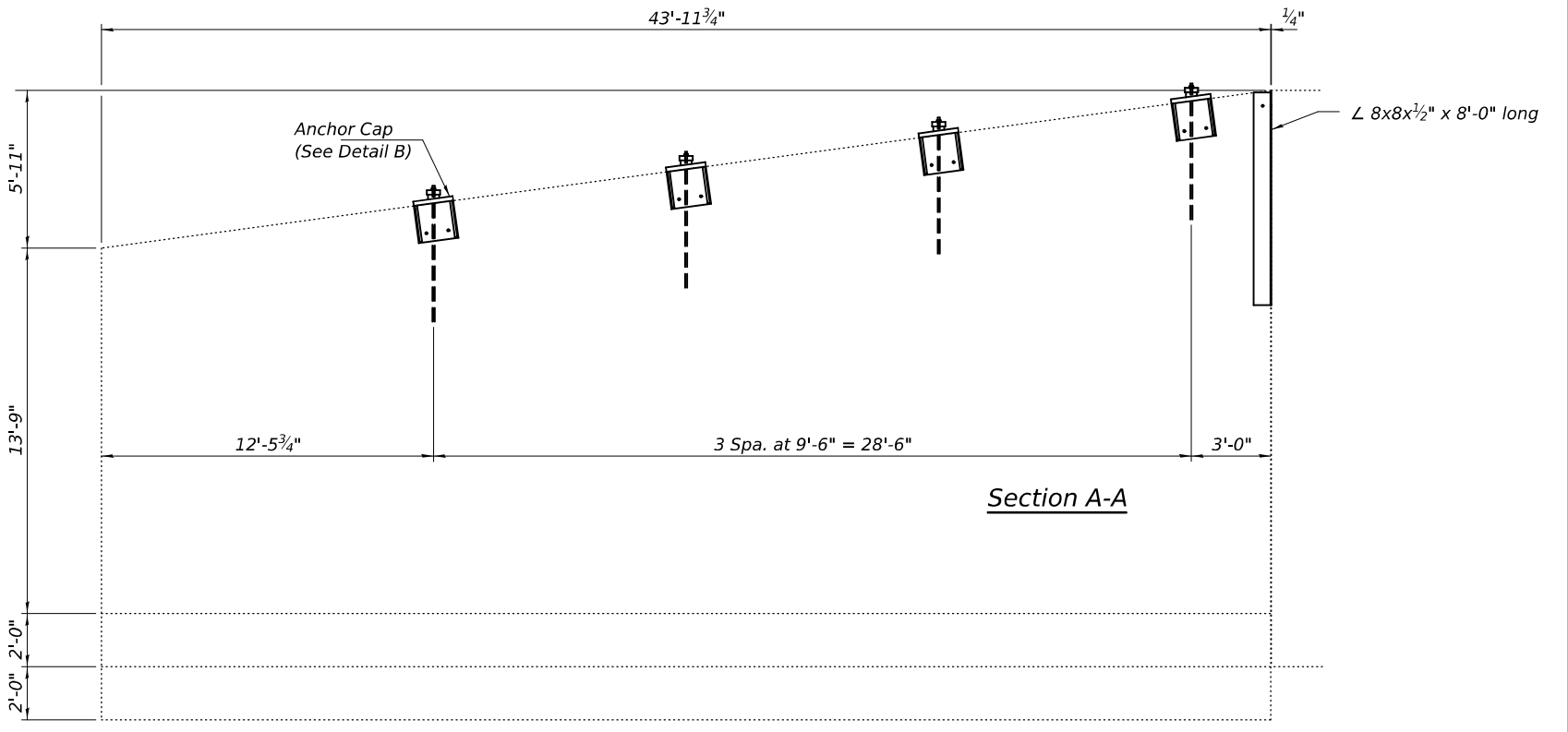
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM 2026-1	VERMILION	9	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70H72	



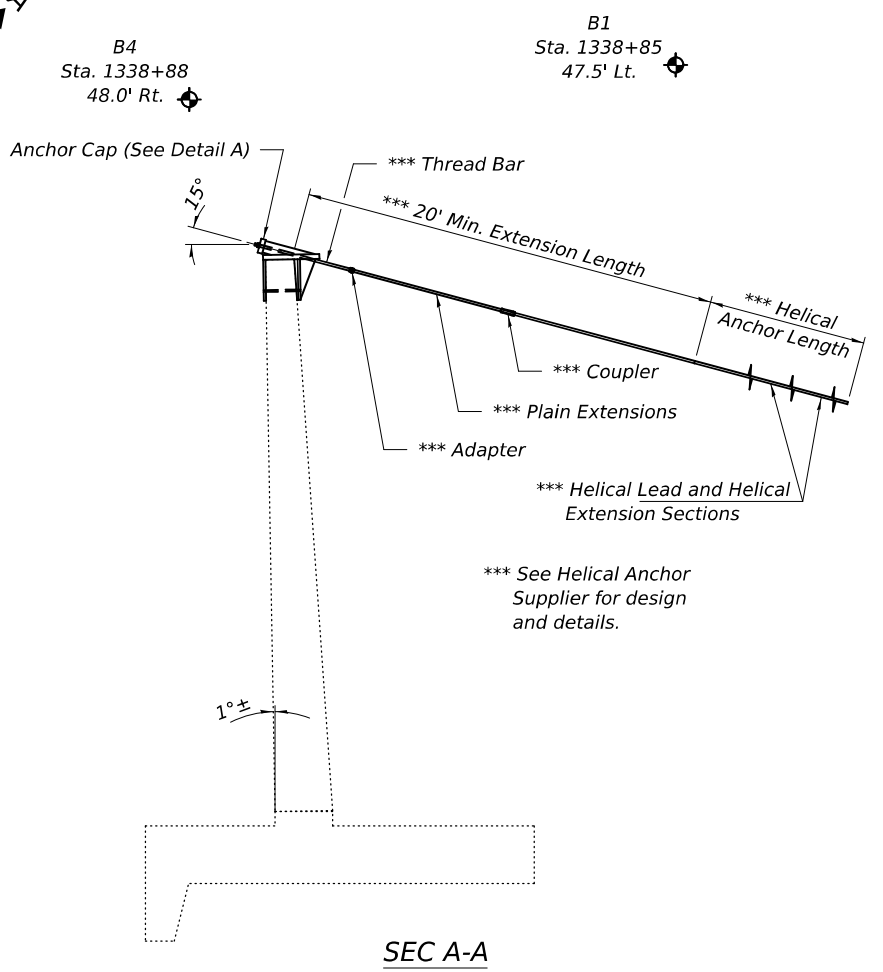
PARTIAL PLAN

(A) - Straighten all existing wingwalls using Helical Ground Anchors.

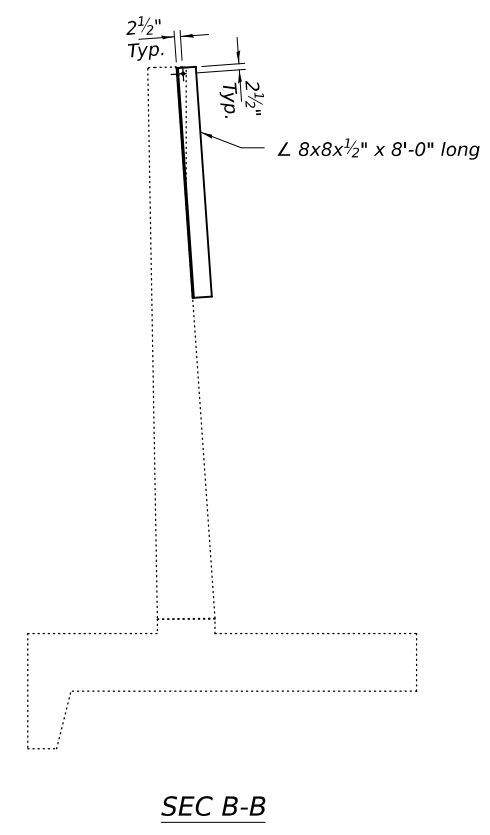


Section A-A

ELEVATION
(Inside Face)



SEC A-A



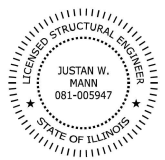
SEC B-B

GENERAL NOTES

- All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
- 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.
- All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Strutral Steel".
- 1. Helical Anchor shall be designed by manufacturer. (See Special Provisions).
- 2. The Contractor shall submit design calculations and shop drawing for the proposed Helical Ground Anchor to the Engineer for review and approval.
- 3. Helical anchor design load (Service) = 29 K/Anchor.
- 4. All anchor components shall be galvanized according to Article 509.05 of the Standard Specifications.
- 5. Cost of steel plates, washers, and nuts included in the cost of Helical Ground Anchors.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Helical Ground Anchor	Each	16
Structural Steel Repair	Pound	850



Expires: November 30, 2026

MODEL: 70H72-004
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DESIGNED - Jeffrey S. Burke	EXAMINED - [Signature]
CHECKED - Tapasvi Patel	ENGINEER OF STRUCTURAL SERVICES
DRAWN - daburdell	PASSED - [Signature]
CHECKED - JSB TP	ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 17, 2026	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-74 OVER KICKAPOO POND
SN 092-8600

SHEET 1 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM-2026-1	VERMILION	9	4
CONTRACT NO. 70H72				
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 3/26/25

ROUTE I-74 DESCRIPTION SN 092-8600 NE WING WALL - C#70H72 LOGGED BY R. KEYS
DRILLED BY L. WHEELER
SECTION 92-10 LOCATION NW 1/4, SEC. 9, TWP. 19N, RNG. 12W, 2nd PM
IL 1201 S.P.E. COORDS: 1260994.69 N., 1152601.83 E.
COUNTY Vermilion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 092-8600 DEPT H N Qu T Surface Water Elev. 548.65 ft DEPT H N Qu T
Station 1638+50 Stream Bed Elev. _____ ft DEPT H N Qu T
BORING NO. 1 NE GROUNDWATER Elev.: _____ ft DEPT H N Qu T
Station 1638+85 First Encounter 537.0 ft DEPT H N Qu T
Offset 47.50ft LT Upon Completion COLLAPSE ft DEPT H N Qu T
Ground Surface Elev. 566.49 ft After _____ Hrs. _____ ft DEPT H N Qu T

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	SPT (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION
0				Asphalt Shoulder on Gravel Base	0				Firm, Dry, Friable Silty Clay Loam with Shale Fragments (continued)
4					12				
2					15	2.0	16		
5					10	P			
-5									
5					6				
4	1.5	15			10				
5	P			Moist, Loose, Brown Medium Sand with Gravel	8				
-10									
6					WOH				
4					WOH				
5				(no sample)	1				
-15									
8					16				
10	4.5+	13		(wash bored - 2 foot sand blown into auger)	25	3.0	15		
5	P			Gray Weathered Shale (bedrock)	36	S			
-20									

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 137

BORING 1 - NE

SOIL BORING LOG

Date 3/26/25

ROUTE I-74 DESCRIPTION SN 092-8600 NW WING WALL-C#70H72 LOGGED BY R. KEYS
DRILLED BY L. WHEELER
SECTION 92-10 LOCATION NW 1/4, SEC. 9, TWP. 19N, RNG. 12W, 2nd PM
IL 1201 S.P.E. COORDS: 1260994.11 N., 1152519.37 E.
COUNTY Vermilion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 092-8600 DEPT H N Qu T Surface Water Elev. 548.65 ft DEPT H N Qu T
Station 1638+50 Stream Bed Elev. _____ ft DEPT H N Qu T
BORING NO. 2 NW GROUNDWATER Elev.: _____ ft DEPT H N Qu T
Station 1638+03 First Encounter 537.3 ft DEPT H N Qu T
Offset 47.50ft LT Upon Completion COLLAPSE ft DEPT H N Qu T
Ground Surface Elev. 567.26 ft After _____ Hrs. _____ ft DEPT H N Qu T

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	SPT (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION
0				Asphalt Shoulder on Gravel Base	0				Firm, Dry, Friable Silty Clay Loam Till with Shale Fragments (continued)
4					5				
2					7	3.5	15		
5					7	P			
-5									
2					7				
3	2.5	16			10	2.5	15		
5	P			Moist Brown Medium Sand	10	P			
-10									
6					WOR				
4					WOR				
7	1.8	21		Wet, Loose and Soft, Medium Clayey Sand	1				
-15									
4					1				
5	3.5	17							
7	P			End of Boring					
-20									

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 137

BORING 2 - NW

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DESIGNED - JSB	EXAMINED	DATE - MARCH 17, 2026
CHECKED - TP	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISER -
CHECKED - JSB TP	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
SN 092-8600

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM-2026-1	VERMILION	9	6
CONTRACT NO. 70H72				
ILLINOIS FED. AID PROJECT				

SHEET 3 OF 6 SHEETS

SOIL BORING LOG

Date 3/18/25

ROUTE I-74 DESCRIPTION SN 092-8600 SW WING WALL-C#70H72 LOGGED BY R. KEYS
DRILLED BY L. WHEELER
SECTION 92-10 LOCATION NW 1/4, SEC. 9, TWP. 19N, RNG. 12W, 2nd PM
IL 1201 S.P.E. COORDS: 1260899.06 N., 1152523.66 E.
COUNTY Vermilion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 092-8600
Station 1638+50
BORING NO. 3 SW
Station 1638+07
Offset 48.00ft RT
Ground Surface Elev. 567.19 ft

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				HMA Shoulder, +/-9" Thick on Aggregate Base
1				Stiff Brown/Gray Silty Clay Loam Till Embankment (with Shale and Coal fragments)
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

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 137

BORING 3 - SW

SOIL BORING LOG

Date 3/18/25

ROUTE I-74 DESCRIPTION SN 092-8600 SE WING WALL-C#70H72 LOGGED BY R. KEYS
DRILLED BY L. WHEELER
SECTION 92-10 LOCATION NW 1/4, SEC. 9, TWP. 19N, RNG. 12W, 2nd PM
IL 1201 S.P.E. COORDS: 1260899.23 N., 1152605 E.
COUNTY Vermilion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 092-8600
Station 1638+50
BORING NO. 4 SE
Station 1638+88
Offset 48.00ft RT
Ground Surface Elev. 566.48 ft

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
0				HMA Shoulder, +/- 9" Thick on Aggregate Base
1				Firm Gray/Brown Silty Clay Loam Till Embankment with Shale Fragments
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

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 137

BORING 4 - SE

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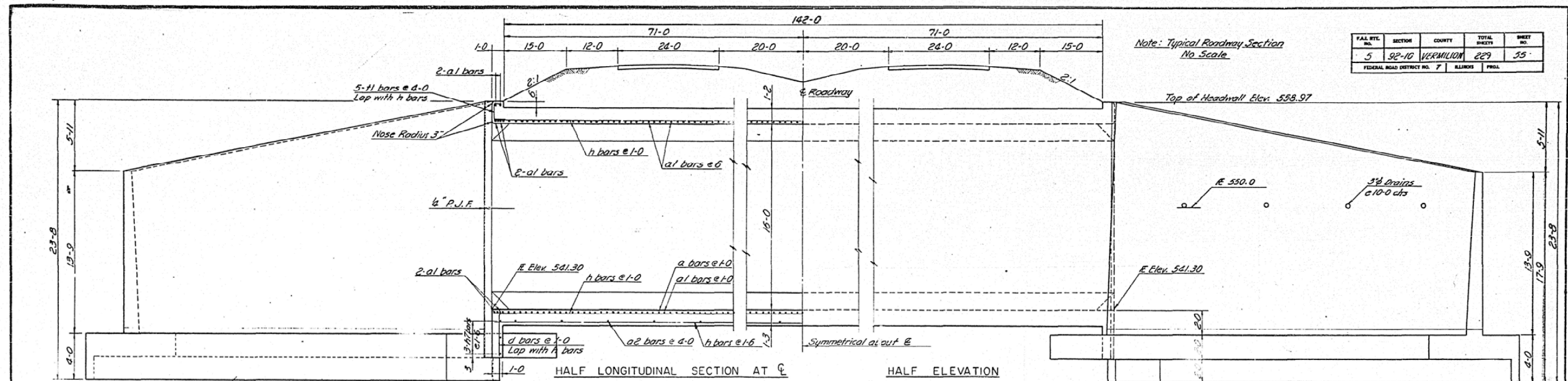
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CHECKED - TP	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISOR -
CHECKED - JSB TP	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

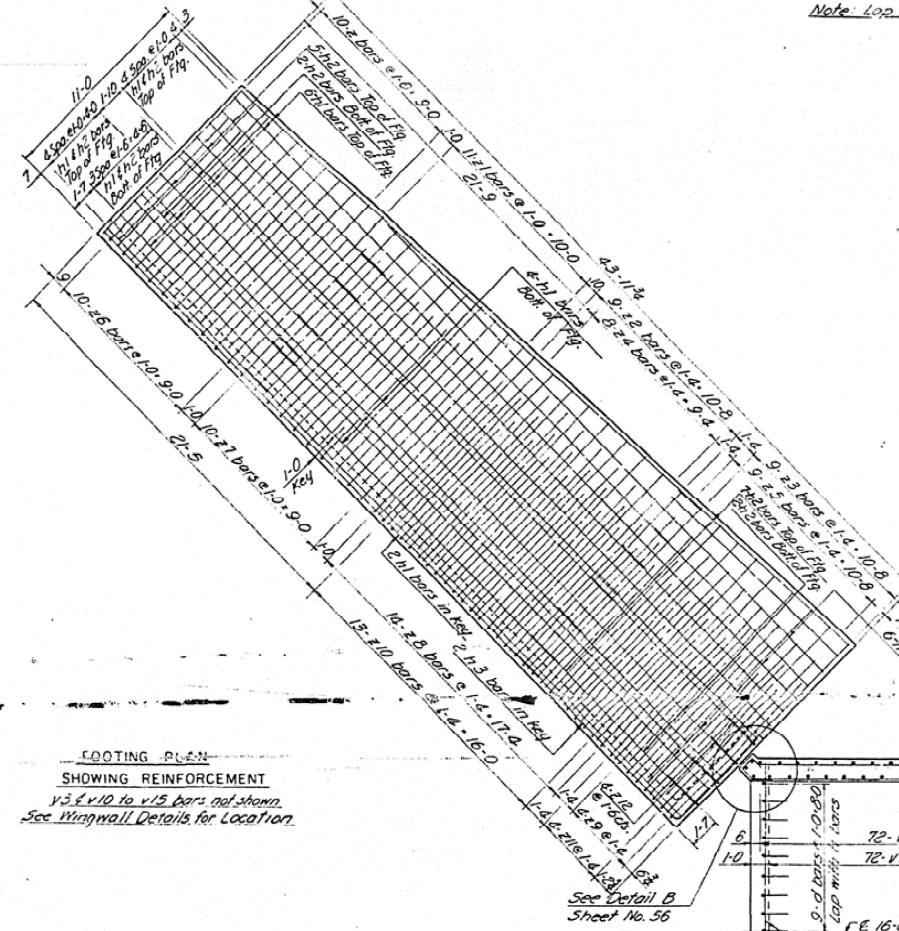
BORING LOGS
SN 092-8600

SHEET 4 OF 6 SHEETS

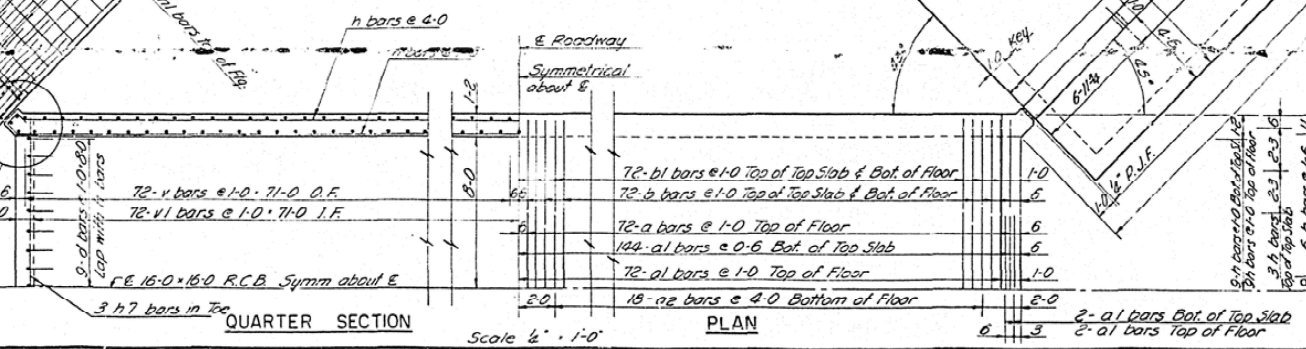
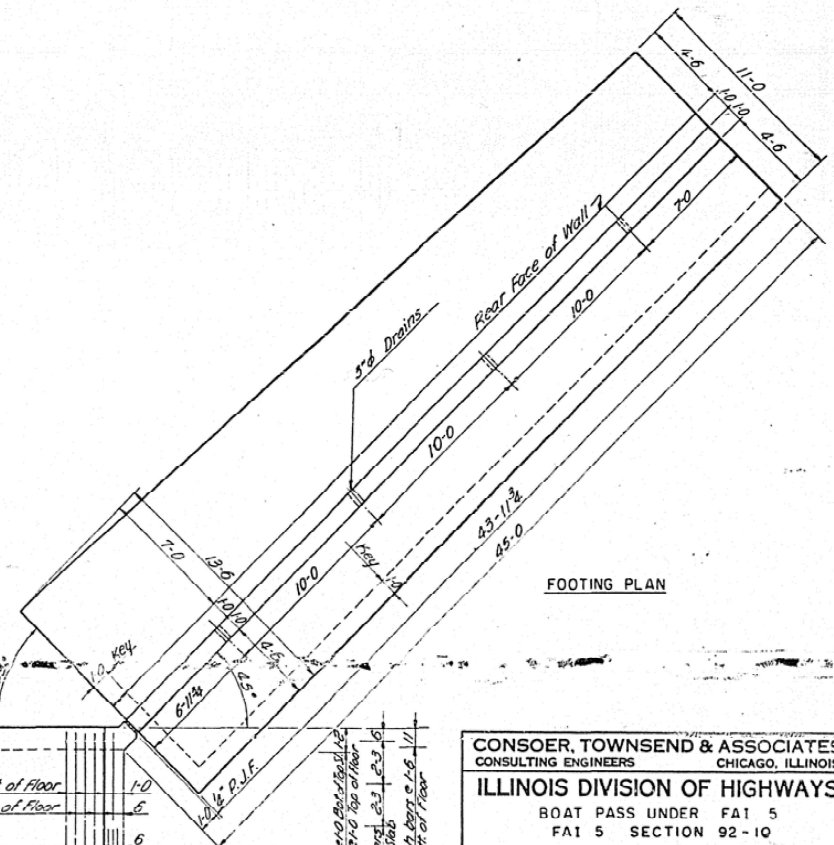
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM-2026-1	VERMILION	9	7
CONTRACT NO. 70H72				
ILLINOIS FED. AID PROJECT				



F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	92-10	VERMILION	229	55
FEDERAL ROAD DISTRICT NO. 7		ILLINOIS	PROJ.	



FOR INFORMATION ONLY



DESIGNED		JWS	CHECKED		TP	DRAWN		daburdell	CHECKED		JWS	REVIEWED		HSM	DATE		2/25/59
CHECKED		TP	DRAWN		JWS	CHECKED		LDB	REVIEWED		HSM	DATE		2/25/59	REVISED		

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DESIGNED	JWS
CHECKED	TP
DRAWN	daburdell
CHECKED	JWS TP

EXAMINED
 ENGINEER OF STRUCTURAL SERVICES
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE	MARCH 17, 2026
REVISED	
REVISED	

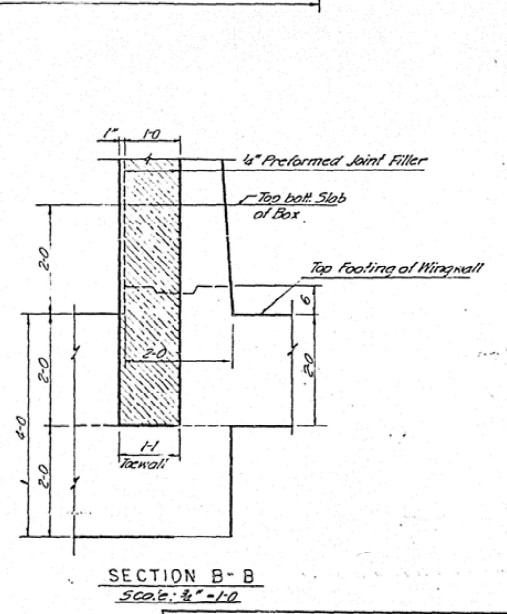
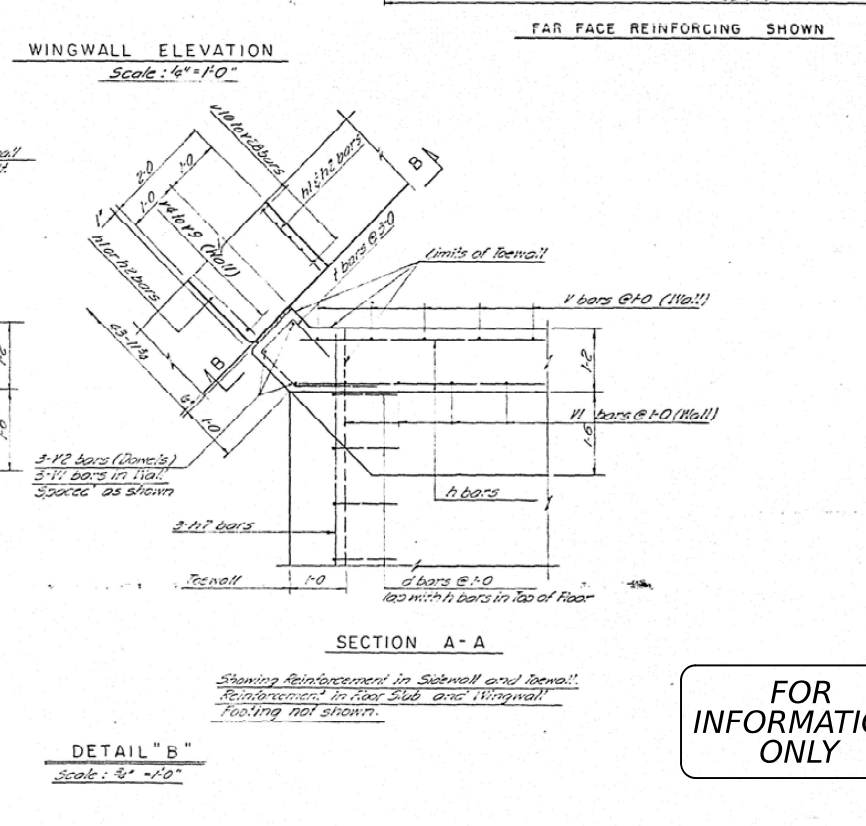
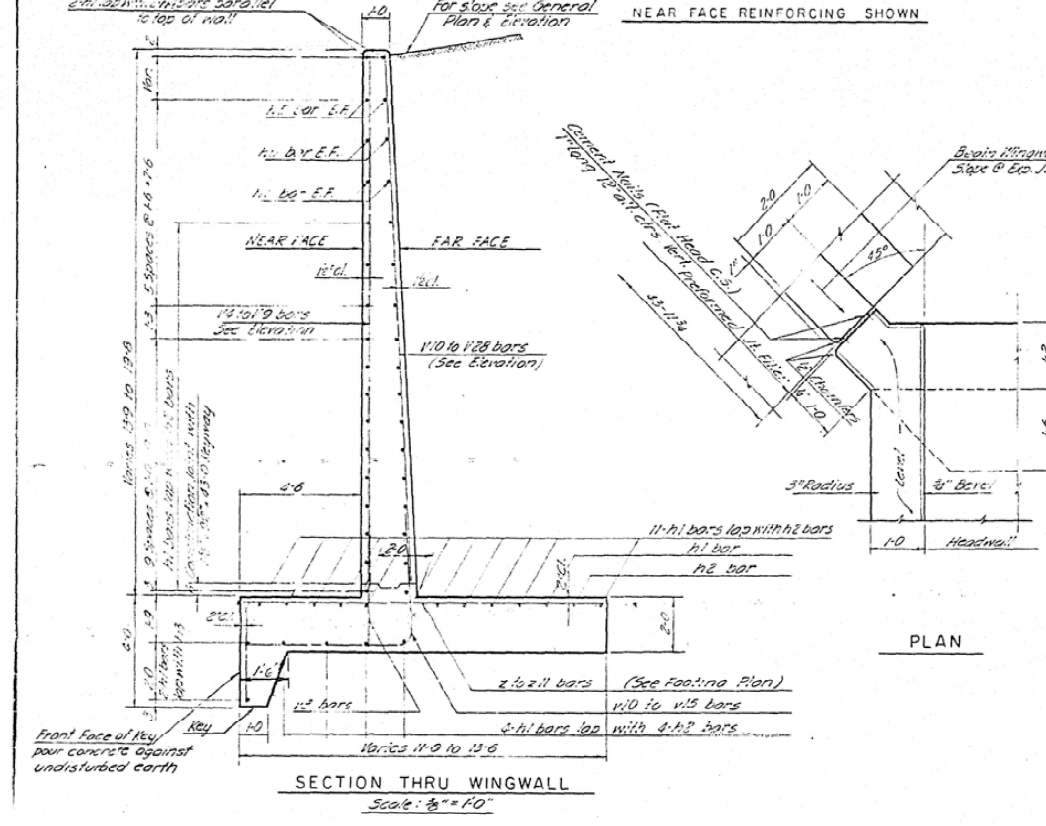
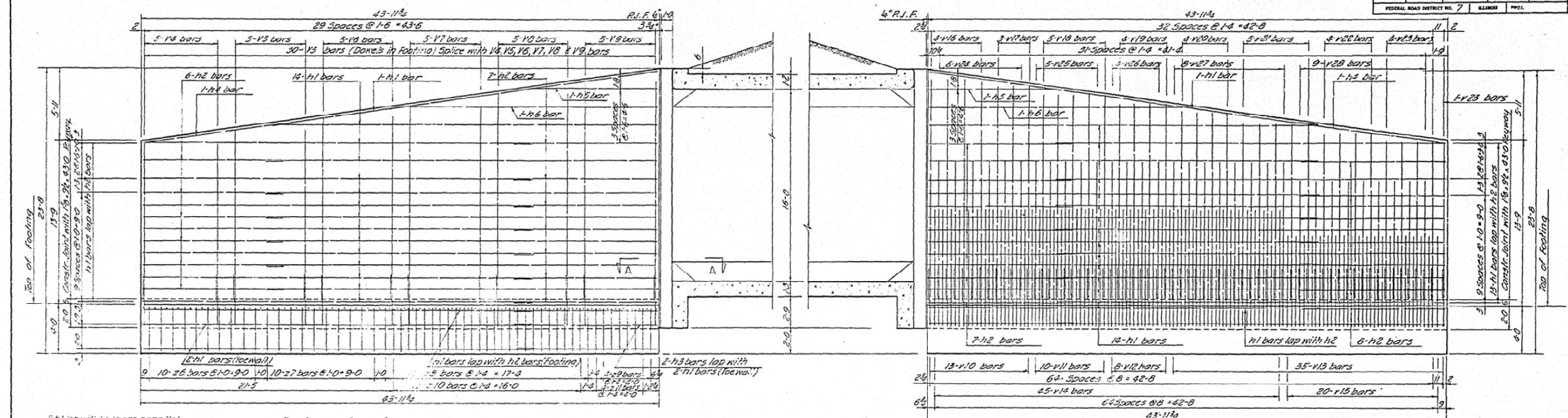
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEET - FIO
 SN 092-8600

SHEET 5 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM-2026-1	VERMILION	9	8
CONTRACT NO. 70H72				
ILLINOIS		FED. AID PROJECT		

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	92-10	VERMILION	229	56
FEDERAL ROAD DISTRICT NO. 7		ILLINOIS	PROJ.	



FOR INFORMATION ONLY

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
BOAT PASS UNDER FAI 5
FAI 5 SECTION 92-10
VERMILION COUNTY STA. 1638 + 50

WINGWALL DETAILS...

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
JH	JT	JT	JH	LOB	HSM	2/25/26

MODEL: 70H72-009
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DESIGNED - JSB	EXAMINED	DATE - MARCH 17, 2026
CHECKED - TP	PASSED	REVISIONS
DRAWN - daburdell		
CHECKED - JSB TP		

ENGINEER OF STRUCTURAL SERVICES
Quater W. Mann
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 17, 2026
REVISIONS
REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEET - FIO
SN 092-8600
SHEET 6 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MBPM-2026-1	VERMILION	9	9
CONTRACT NO. 70H72				
ILLINOIS FED. AID PROJECT				