

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

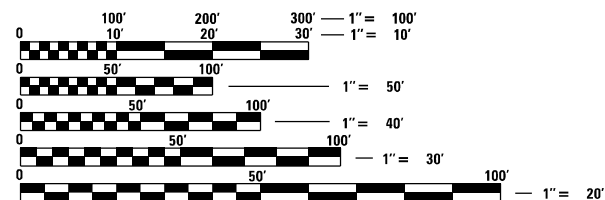
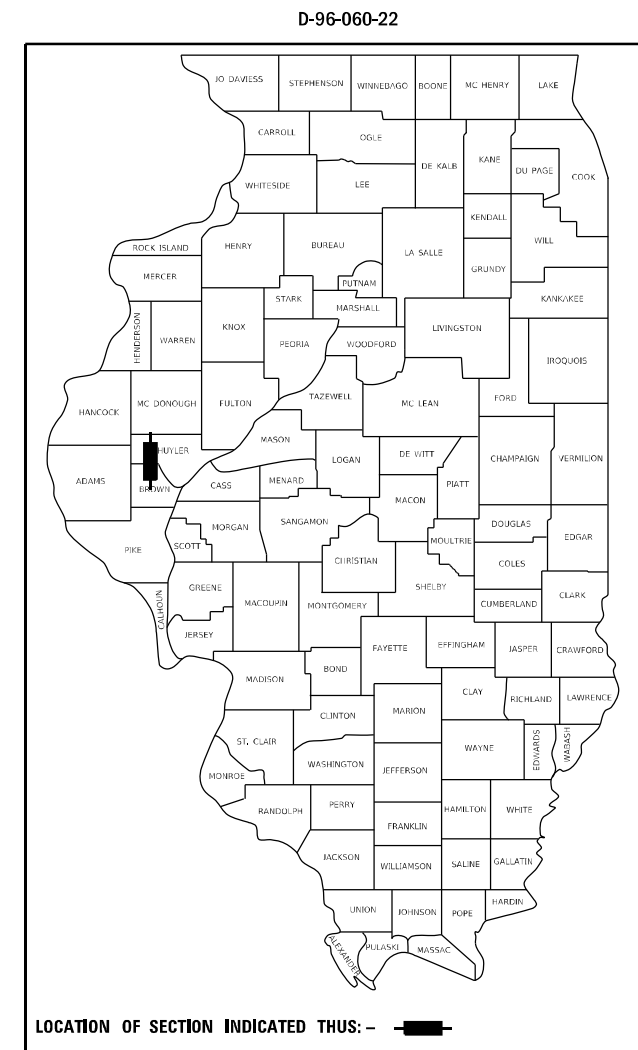
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	1
		ILLINOIS	CONTRACT NO. 72011	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 550 (IL 99)
SECTION 10(B-1,B-5)SCR
PROJECT (STATE)
BRIDGE REPAIRS
SCHUYLER COUNTY

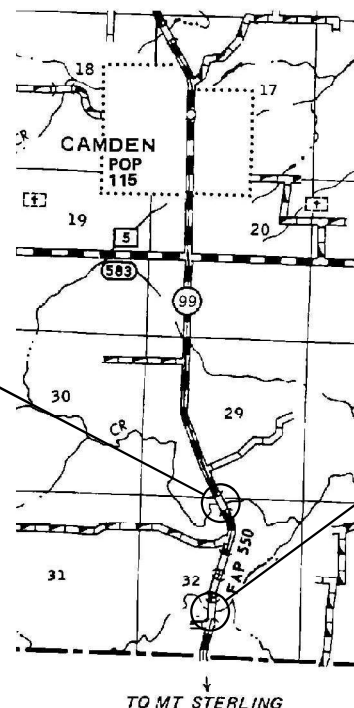
C-96-078-22



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

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

LOCATION #1
SN 085-0030
IL 99 OVER MISSOURI CR
1.0 MI N OF BROWN CO



LOCATION #2
SN 085-0031
IL 99 OVER LITTLE MISSOURI CR
0.25 MI N OF BROWN CO

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

GROSS LENGTH = 0.75 MILE
NET LENGTH = 350 FT. = 0.07 MILE

CONTRACT NO. 72011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 9 2022

July P. Meyer REGIONAL ENGINEER

July 1, 2022 Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

July 1, 2022 Stephen M. Spauld
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

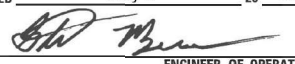
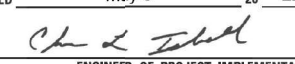
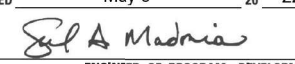
INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 SN 085-0030 BRIDGE PLANS
- 5-8 SN 085-0031 BRIDGE PLANS

STANDARDS

- 000001-08
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701901-08

GENERAL NOTES:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED <u> May 9 </u> 20 <u> 22 </u>  ENGINEER OF OPERATIONS	
EXAMINED <u> May 3 </u> 20 <u> 22 </u>  ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED <u> May 5 </u> 20 <u> 22 </u>  ENGINEER OF PROGRAM DEVELOPMENT	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, & SIGNATURES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	2
			CONTRACT NO. 72011	
ILLINOIS FED. AID PROJECT				

0-02177-6015	0-02177-6015
SN 085-0030	SN 085-0031
100% STATE	100% STATE
BRIDGE/RURAL	BRIDGE/RURAL
0047	0047
SCHUYLER	SCHUYLER

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/RURAL 0047 SCHUYLER	BRIDGE/RURAL 0047 SCHUYLER
28100107	STONE RIPRAP, CLASS A4	SO YD	140	0	140
28100207	STONE RIPRAP, CLASS A4	TON	70	50	20
28200200	FILTER FABRIC	SO YD	140	0	140
50200100	STRUCTURE EXCAVATION	CU YD	53	0	53
50300225	CONCRETE STRUCTURES	CU YD	13	0	13
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	620	0	620
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	4	4	0
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5

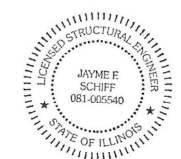
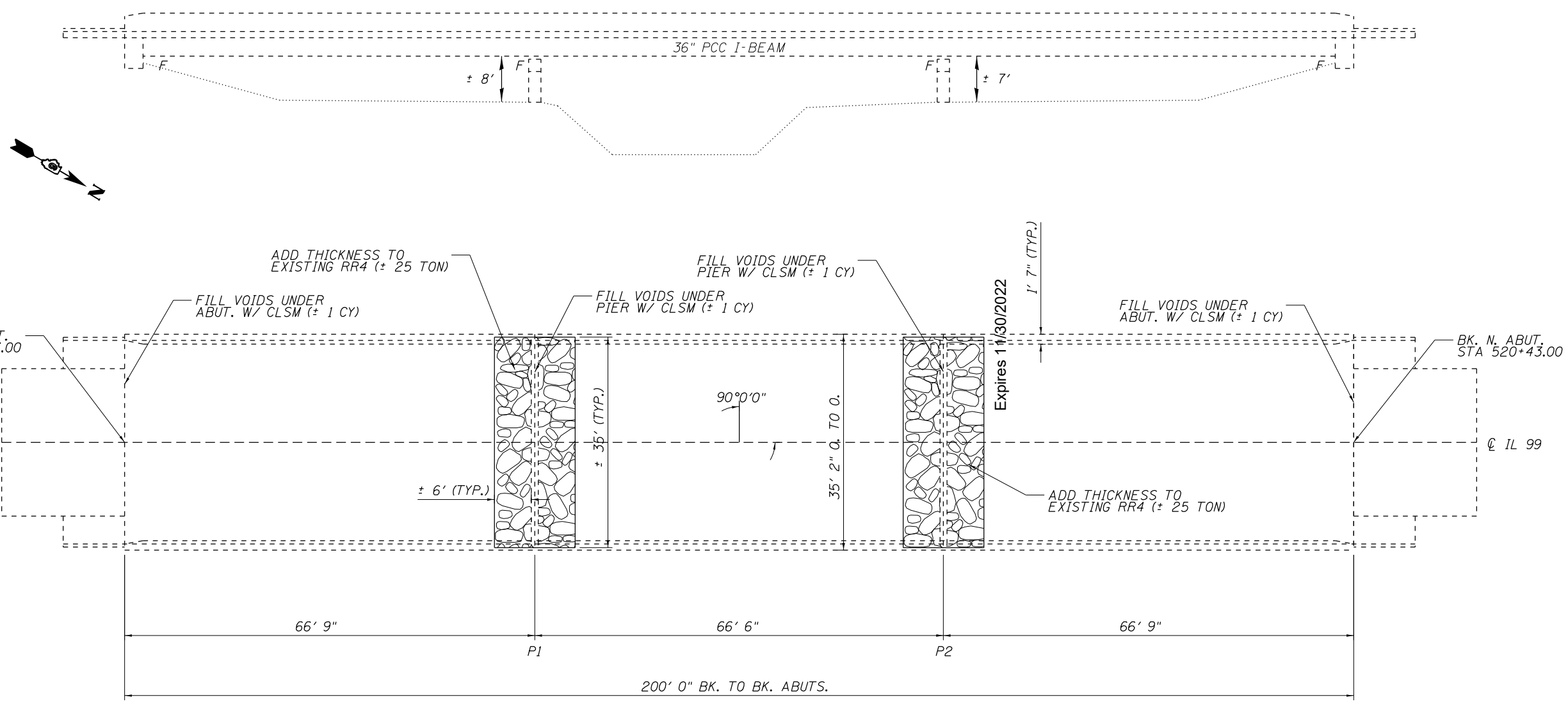
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	3
				CONTRACT NO. 72011
				ILLINOIS FED. AID PROJECT



Expires 11/30/2022

Jayme F. Schiff

TOTAL BILL OF MATERIAL (085-0030)

ITEM	UNIT	QUANTITY
Controlled Low-Strength Material	Cu. Yd.	4
Stone Riprap, Class A4	Ton	50

STRUCTURE GENERAL NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

PROPOSED RIPRAP IS SUPPLEMENTING EXISTING RIPRAP. NO EXCAVATION, FILTER FABRIC, OR BEDDING MATERIAL IS REQUIRED.

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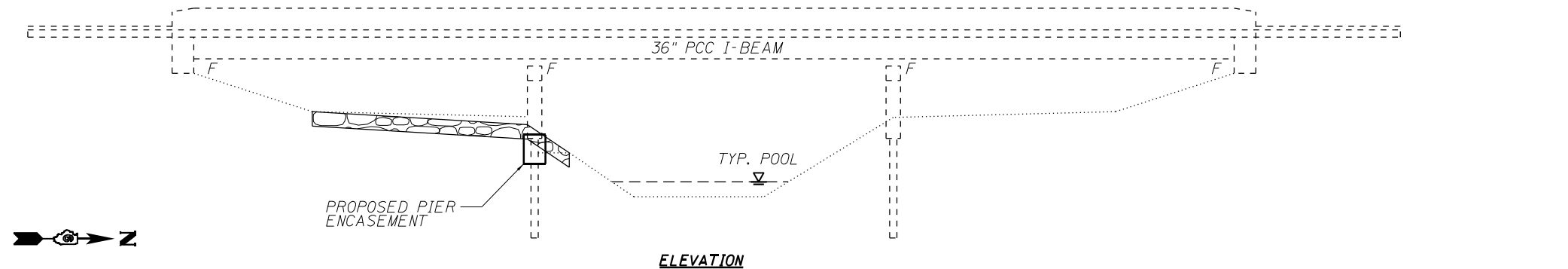
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

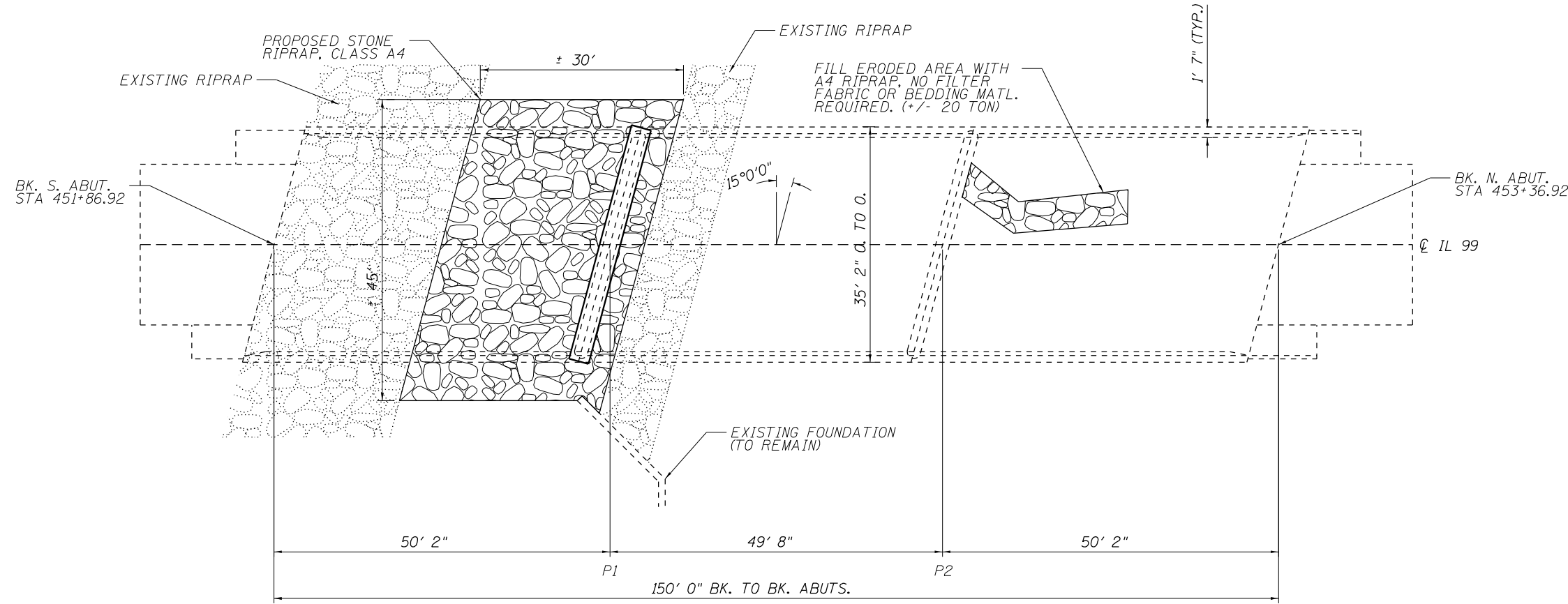
**BRIDGE PLAN & ELEVATION
SN 085-0030**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	4
CONTRACT NO. 72011			ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN



Expires 11/30/2022

Jayme F. Schiff

TOTAL BILL OF MATERIAL (085-0031)

ITEM	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	53
Reinforcement Bars, Epoxy Coated	Pound	620
Concrete Structures	Cu. Yd.	13
Filter Fabric	Sq. Yd.	140
Stone Riprap, Class A4	Sq. Yd.	140
Stone Riprap, Class A4	Ton	20

STRUCTURE GENERAL NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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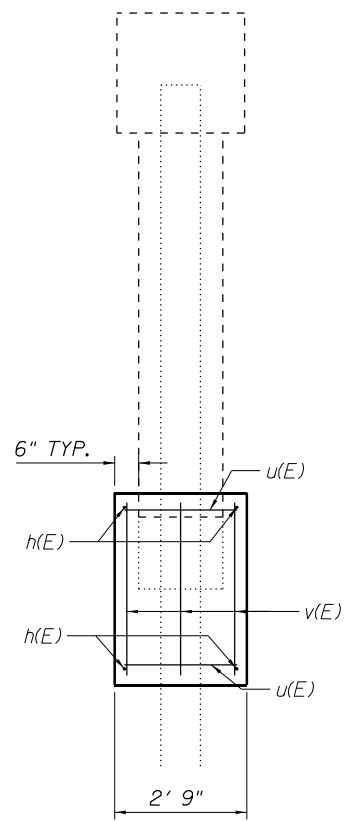
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

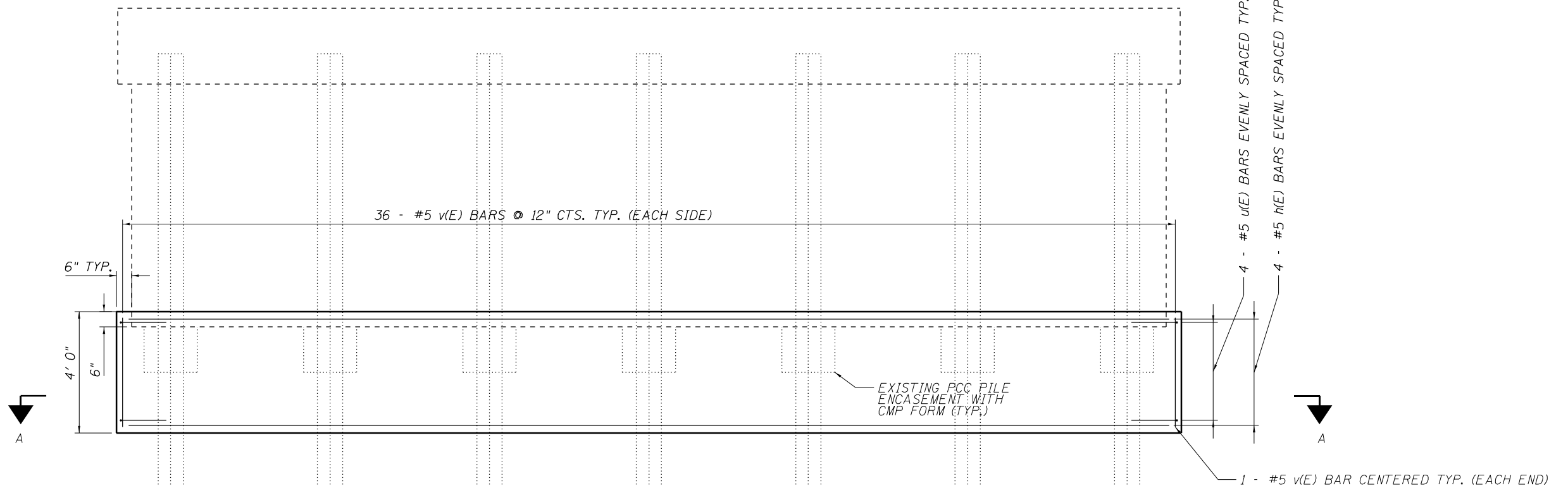
**BRIDGE PLAN & ELEVATION
SN 085-0031**

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

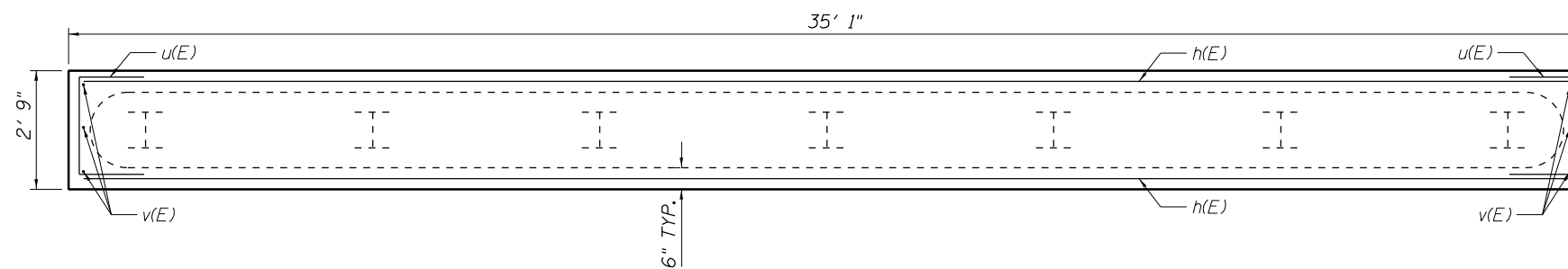
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CONTRACT NO. 72011			ILLINOIS FED. AID PROJECT	



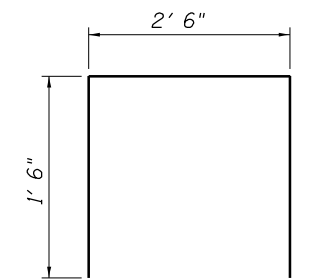
END VIEW



ELEVATION



SECTION A-A



u(E) BAR

PIER 1 REPAIR NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

A 2" MINIMUM CLEAR SPACING SHALL BE PROVIDED BETWEEN ALL REINFORCING BARS AND FORMWORK.

ANY PACK RUST PRESENT ON THE STEEL PILES SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER PRIOR TO POURING NEW CONCRETE.

EXISTING CMP FORMS SURROUNDING PILE ENCASEMENTS SHALL BE REMOVED PRIOR TO POURING NEW CONCRETE, INCLUDED IN THE COST OF CONCRETE STRUCTURES.

FOR EXISTING PIER DIMENSIONS REFER TO INCLUDED EXISTING PLAN SHEET (SHEET 4 OF 4).

PIER 1 REPAIR BILL OF MATERIAL				
BAR	#	SIZE	LENGTH	SHAPE
u(E)	8	#5	5' 6"	U
h(E)	8	#5	34' 7"	—
v(E)	74	#5	3' 8"	—
REINFORCEMENT BARS (EPOXY COATED)		POUND	620	
CONC. STRUCTURES		CU YD	13	

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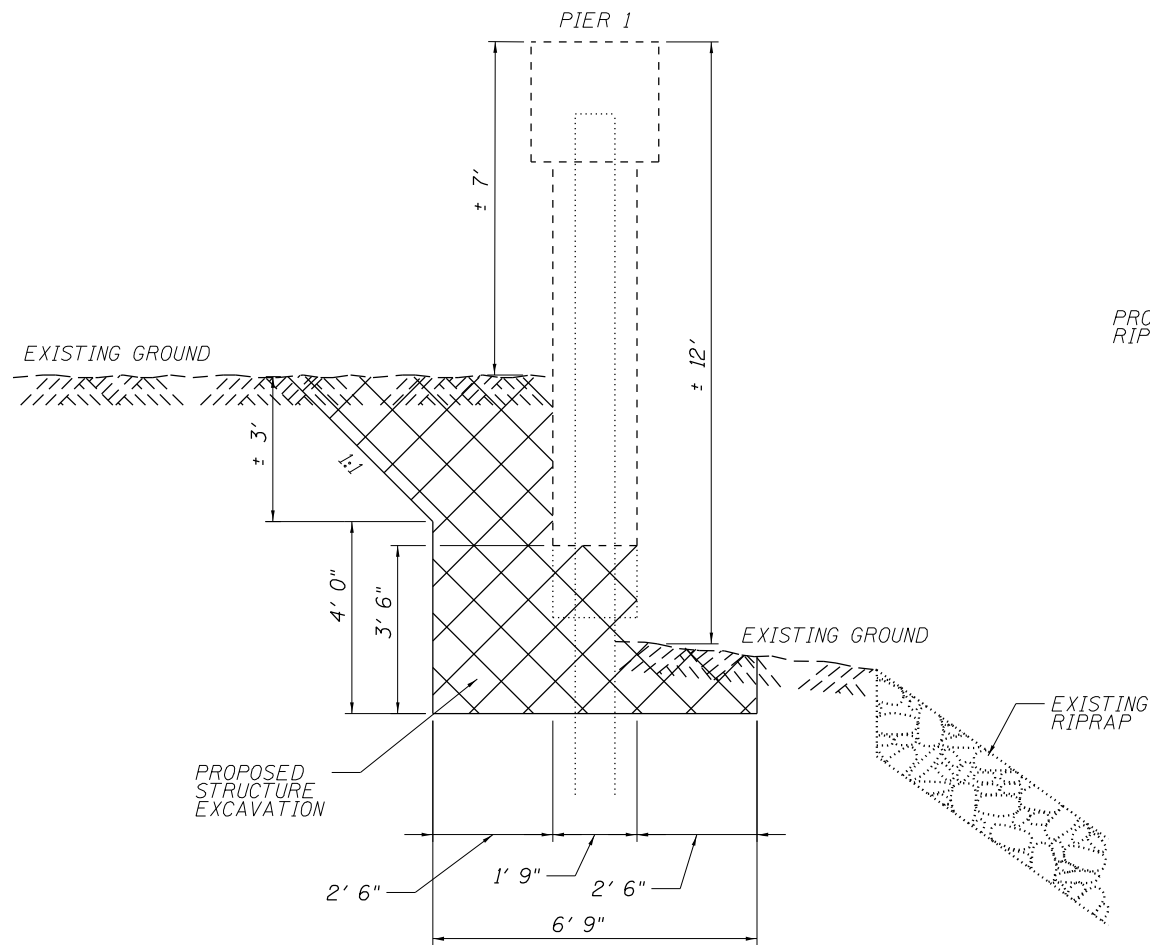
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

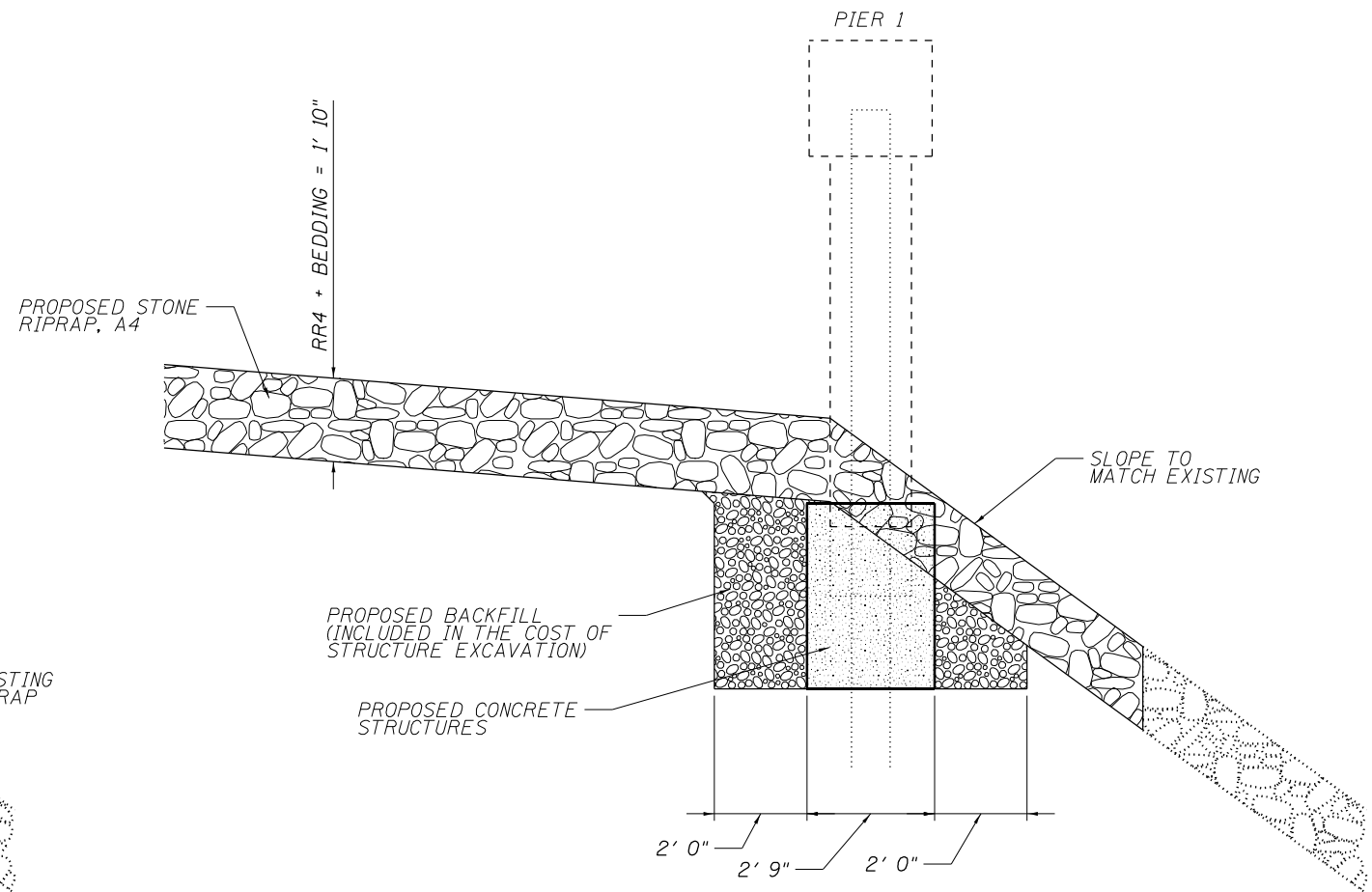
**PIER ENCASEMENT DETAIL
SN 085-0031**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72011	



**END ELEVATION - LOOKING WEST
(SHOWING PROPOSED STRUCTURE EXCAVATION)**



**END ELEVATION - LOOKING WEST
(SHOWING PROPOSED REPAIRS & RIPRAP)**

EARTHWORK & RIPRAP NOTES:

STRUCTURE EXCAVATION SHALL INCLUDE EXCAVATING UNDER THE PIER STEM, BETWEEN PILES, AND REMOVING MATERIAL WITHIN THE PILE WEBS.

BACKFILL FOR STRUCTURE EXCAVATION SHALL CONSIST OF EXCAVATED MATERIAL FROM THE JOBSITE. THE MOISTURE CONTENT AND COMPACTION OF FILL SHALL BE TO THE SATISFACTION OF THE ENGINEER. BACKFILL SHALL BE CONSIDERED INCIDENTAL TO STRUCTURE EXCAVATION AND WILL NOT BE MEASURED FOR PAYMENT SEPARATELY.

THE FINISHED GRADE FOR RIPRAP AREAS SHALL ROUGHLY APPROXIMATE THE EXISTING GRADE. THE FINISHED GRADE SHALL FALL TOWARDS THE CHANNEL AND SHALL BE CROWNED AT CENTERLINE TO DRAIN AROUND THE ENDS OF THE PIER. ANY ADDITIONAL EXCAVATION NECESSARY TO ACHIEVE THESE GRADES SHALL BE CONSIDERED INCIDENTAL TO STONE RIPRAP, CLASS A4 AND SHALL NOT BE MEASURED FOR PAYMENT SEPARATELY.

FOR EXISTING PIER DIMENSIONS REFER TO INCLUDED EXISTING PLAN SHEET (SHEET 4 OF 4).

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PLOT DATE = 5/9/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXCAVATION & RIPRAP DETAIL
SN 085-0031**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10(B-1,B-5)SCR	SCHUYLER	8	7
			CONTRACT NO. 72011	
		ILLINOIS FED. AID PROJECT		

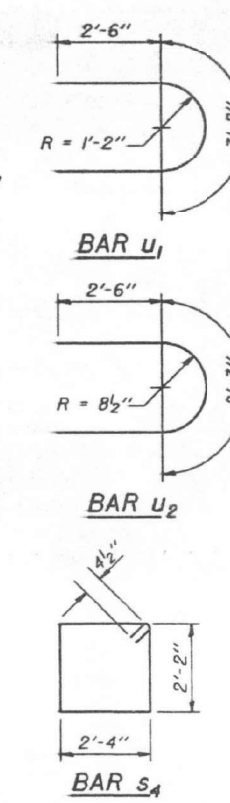
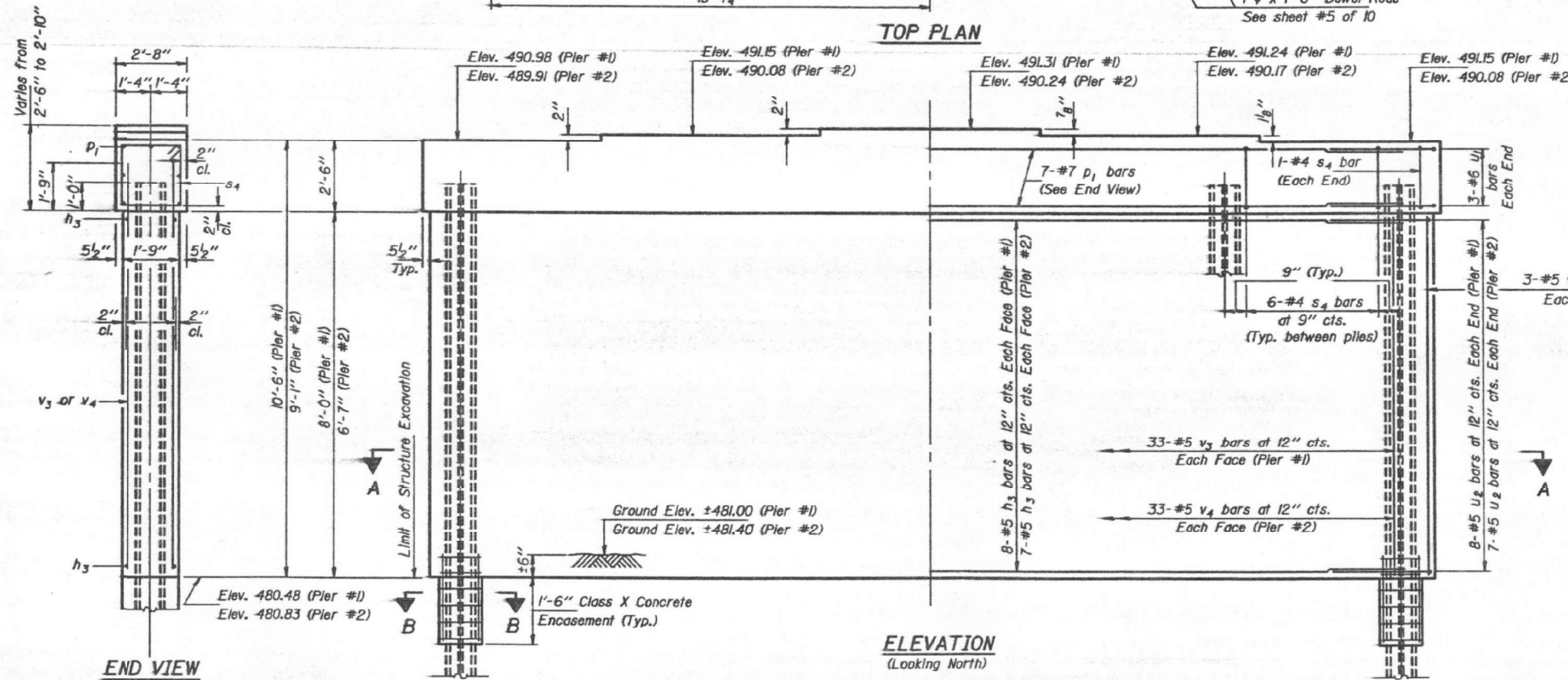
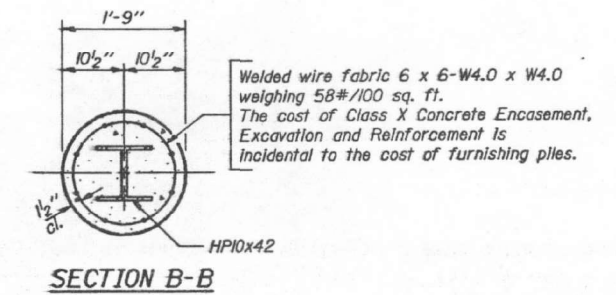
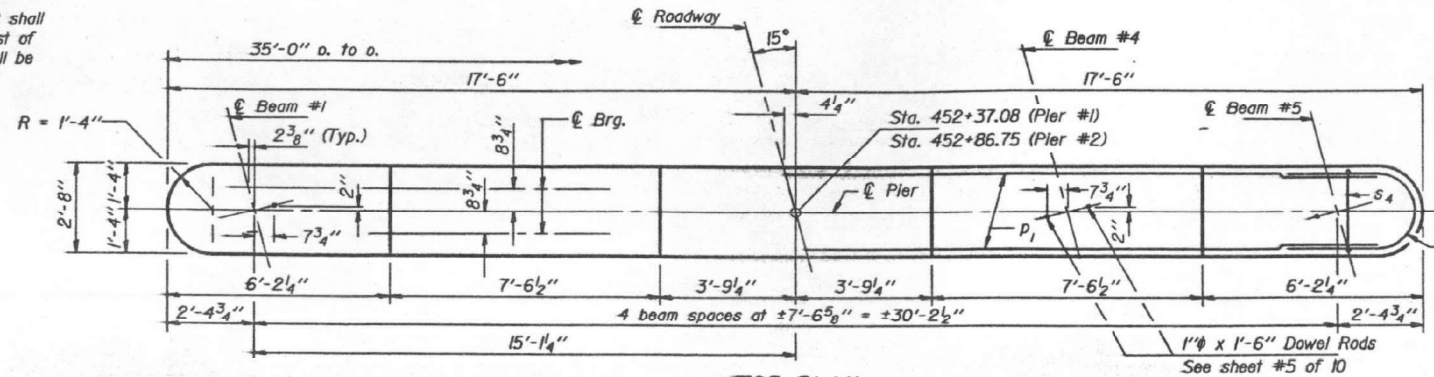
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A. 550	10B-1	Brown-Schuyler	69	28
SHEET NO. 10				

Notes: All edges shall have standard 3/4" chamfer except as noted.
Four steps monolithically with cap.
Sonotubes shall be placed below Elev. 480.48 (Pier #1) and Elev. 480.83 (Pier #2) after excavation for pier walls. Class X Concrete and Reinforcement shall then be placed under water into sonotubes. Cost of excavation, furnishing and placing sonotubes shall be incidental to furnishing piles.

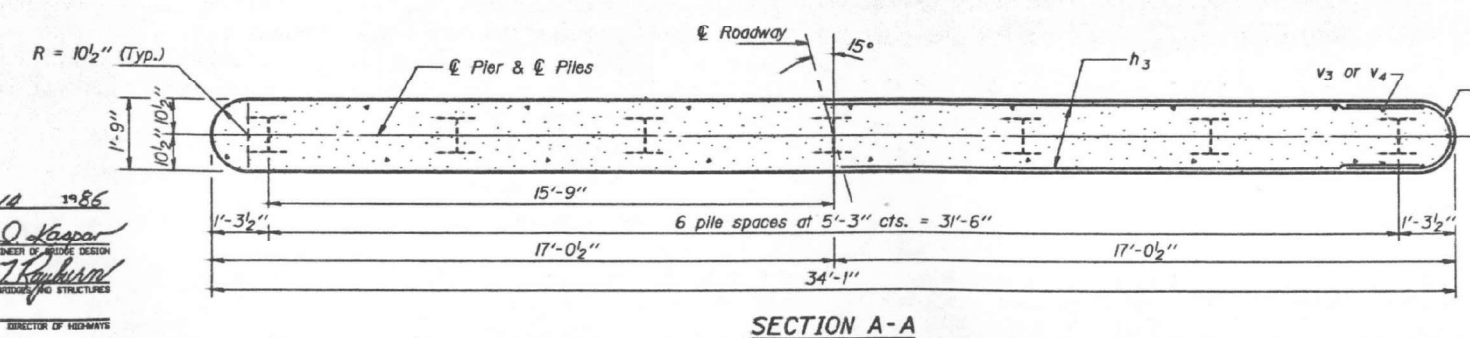
PILE DATA

Type: Steel HPI0x42
Capacity: Drive to Refusal
Est. Length: 30' (Pier #1) & 34' (Pier #2)
No. Required: 7 (Pier #1)
6 + 1 test pile (Pier #2)



TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3	30	#5	32'-4"	—
p1	14	#7	32'-4"	—
s4	76	#4	9'-9"	□
u1	12	#6	8'-8"	U
u2	30	#5	7'-3"	U
v3	72	#5	9'-7"	—
v4	72	#5	8'-2"	—
Class X Concrete		Cu. Yd.	50.2	
Reinforcement Bars		Pound	4150	
Steel Piles HPI0x42		Lin. Ft.	414	
Test Pile		Each	1	
Steel (HPI0x42)				



DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DRAWN: R. Doty
CHECKED DKM: *[Signature]*

EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

March 10 1986

PIERS #1 AND #2
F.A. RT. 550 SEC. 10B-1
SCHUYLER COUNTY
STA. 452+61.92

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PIER DETAIL, SN 085-0031
(FOR INFORMATION ONLY)

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SCALE:	SHEET 4 OF 4 SHEETS	STA.	TO STA.
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
550	10(B-1, B-5) SCR	SCHUYLER	8
			SHEET NO. 8
			CONTRACT NO. 72011
		ILLINOIS	FED. AID PROJECT

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