

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873/776	107SCR-1/115SCR-1	FRANKLIN/HAMILTON	9	1
CONTRACT NO. 78953				

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

PROPOSED HIGHWAY PLANS

FAP 873 (IL 149) AND FAP 776 (IL 142)
SECTION 107SCR-1 /115SCR-1
PROJECT HBFPIIS(915)
SCOUR REPAIR
FRANKLIN & HAMILTON COUNTIES

TRAFFIC DATA

SN. 028-0040
2021 ADT = 2050
WITH 12.2% TRUCKS

SN. 033-0016
2021 ADT = 2550
WITH 12.5% TRUCKS

TOWNSHIP
RURAL

COORDINATE SYSTEM:
POSTED SPEED: 55 MPH

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

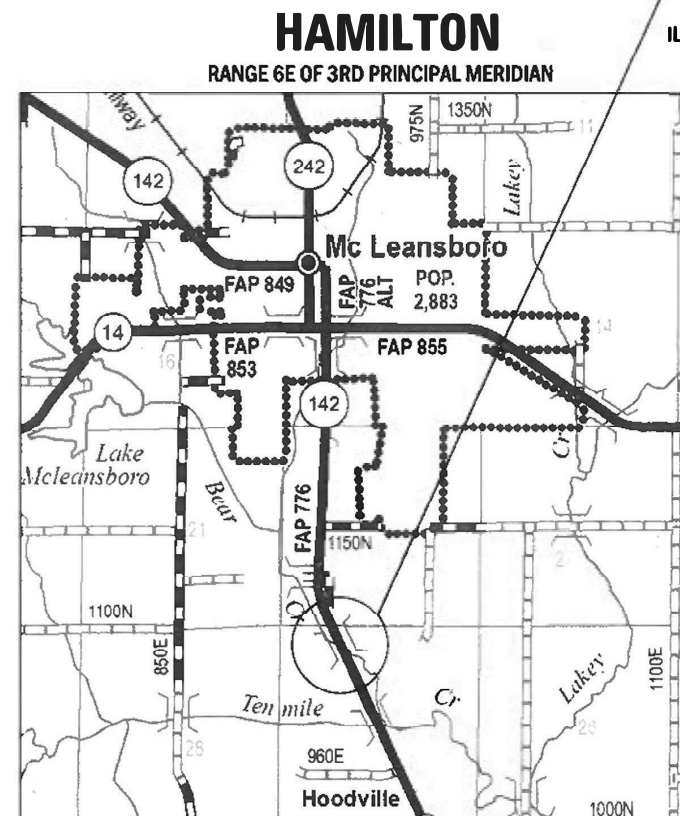
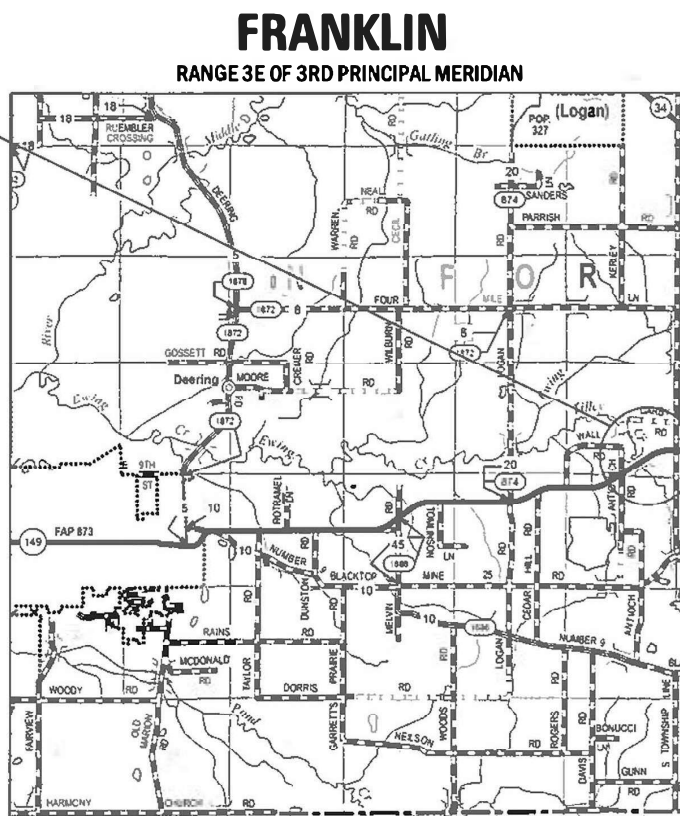
PROJECT ENGINEER: GRANT DETERDING
DESIGN ENGINEER: ADRIAN ADAMS

CONTRACT NO. 78953

C-99-061-22

IMPROVEMENT LOCATION
STRUCTURE 033-0016
IL 142 OVER BEAR CREEK

IMPROVEMENT LOCATION
STRUCTURE 028-0040
IL 149 OVER TILLEY CREEK



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 2 20 22
Kirk H. Brown
REGION FIVE ENGINEER

February 3, 2023
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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Prepared By: Charles Stein
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Deel
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Car Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]
DISTRICT OPERATIONS ENGINEER

Examined By: Daryl J. Weis
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Daryl J. Weis
DISTRICT CONSTRUCTION ENGINEER

Examined By: Aam Hagan
DISTRICT MATERIALS ENGINEER

USER NAME = Adnan Adams	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100 0000 ' / in	CHECKED - _____	REVISED - _____
PLOT DATE = 11/29/2022	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.	1075CR-1/1155CR-1	**	.9	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78953	

GENERAL NOTES

1) FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.

ALL AGGREGATE 2.05 TONS/CU. YD.

INDEX OF SHEETS

1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS, STANDARDS, AND COMMITMENTS
4	SUMMARY OF QUANTITIES
5	GENERAL PLAN, ELEVATION, & DETAILS SN 028-0040
6	GENERAL PLAN, ELEVATION, & DETAILS SN 033-0016
7	SHEET PILE DETAILS SN 033-0016
8	SOIL BORING LOG SN 033-0016 SW QUAD
9	SOIL BORING LOG SN 033-0016 NE QUAD

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES

COMMITMENTS

NONE

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USER NAME = Adrian.Adams PLOT SCALE = 100.0000 ' / in. PLOT DATE = 12/15/2022	DESIGNED - _____ DRAWN - _____	REVISED - _____ REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS, STANDARDS, AND COMMITMENTS	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
	CHECKED - _____ DATE - _____	REVISED - _____ REVISED - _____			* 1075CR-1/1155CR-1 ** 9 3
				SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT * 873/776 ** FRANKLIN/HAMILTON CONTRACT NO. 78953

SUMMARY OF QUANTITIES

ROUTE:	FAP 873 (IL 149)	FAP 776 (IL 142)
COUNTY:	FRANKLIN	HAMILTON
FUNDING:	80% FED/20% STATE	80% FED/20% STATE
LOCATION:	RURAL	RURAL
	BRIDGE	BRIDGE
	0013	0013

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	44		44
28100109	STONE RIPRAP, CLASS A5	SQ YD	603	212	391
28200200	FILTER FABRIC	SQ YD	603	212	391
52200015	PERMANENT SHEET PILING	SQ FT	1,698		1,698
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28	28

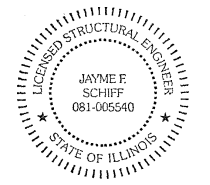
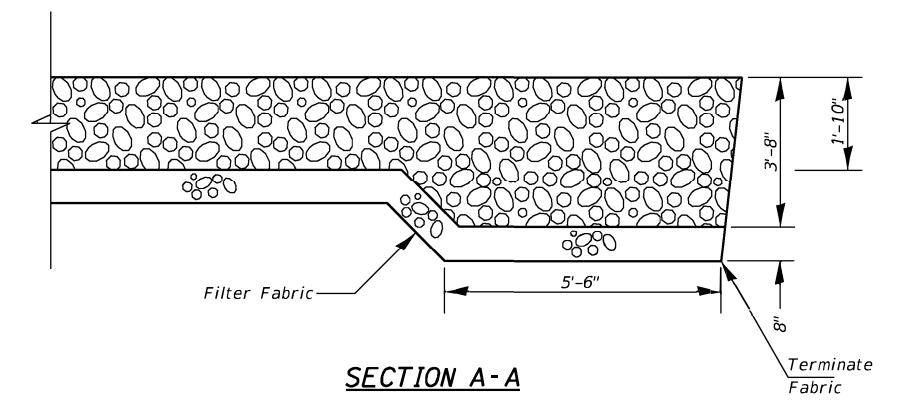
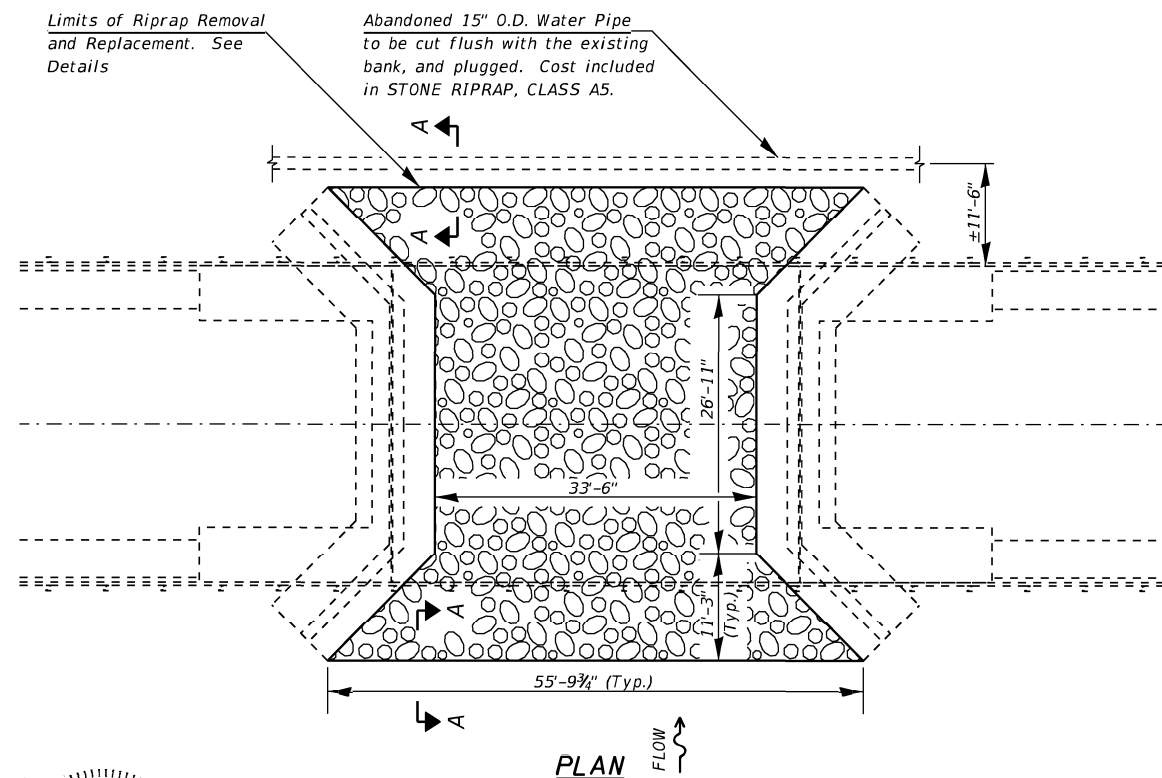
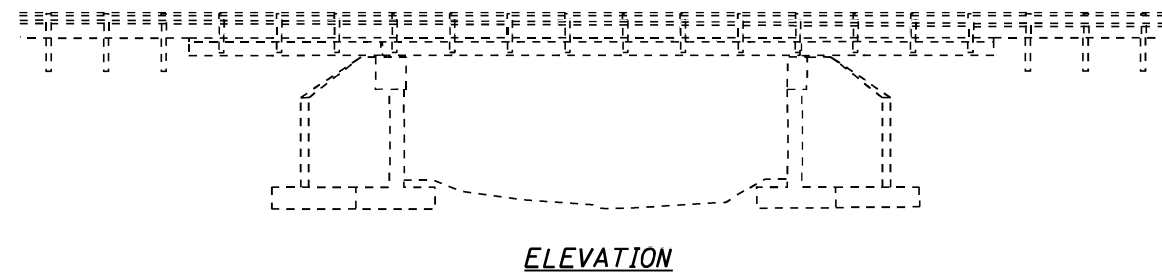
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DRAWN - _____	REVISED - _____	*					107SCR-1/115SCR-1	**	9	4	
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 78953				
PLOT DATE = 12/15/2022	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT * 873/776 ** FRANKLIN/HAMILTON							

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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



EXPIRES 11-30-2024
Jayme F. Schiff

SCOUR REPAIR
IL. RTE. 149 OVER TILLEY CREEK
F.A.P. ROUTE 873 - SECTION 107SCR-1
FRANKLIN COUNTY
STATION 1060+46
STRUCTURE NO. 028-0040

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PLOT DATE = 12/15/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN, ELEVATION, & DETAILS			
SN 028-0040			
SCALE: _____	SHEET 1	OF 1 SHEETS	STA. _____ TO STA. _____

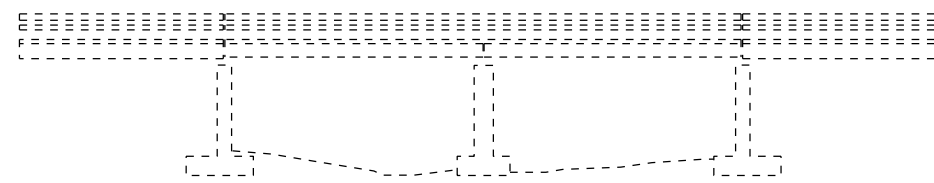
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	107SCR-1/115SCR-1	**	9	5
CONTRACT NO. 78953				
ILLINOIS FED. AID PROJECT			** FRANKLIN/HAMILTON	

* 873/776 ** FRANKLIN/HAMILTON

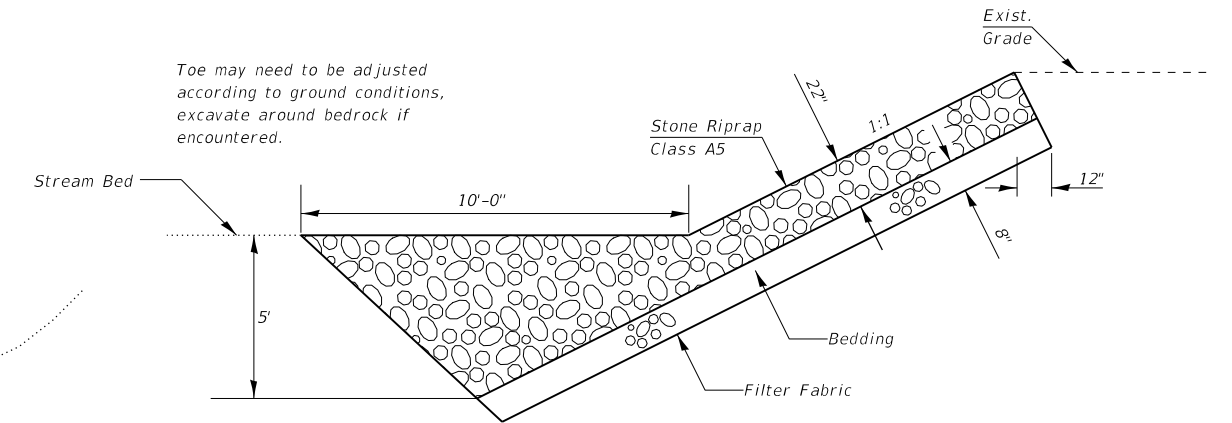
GENERAL NOTES

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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

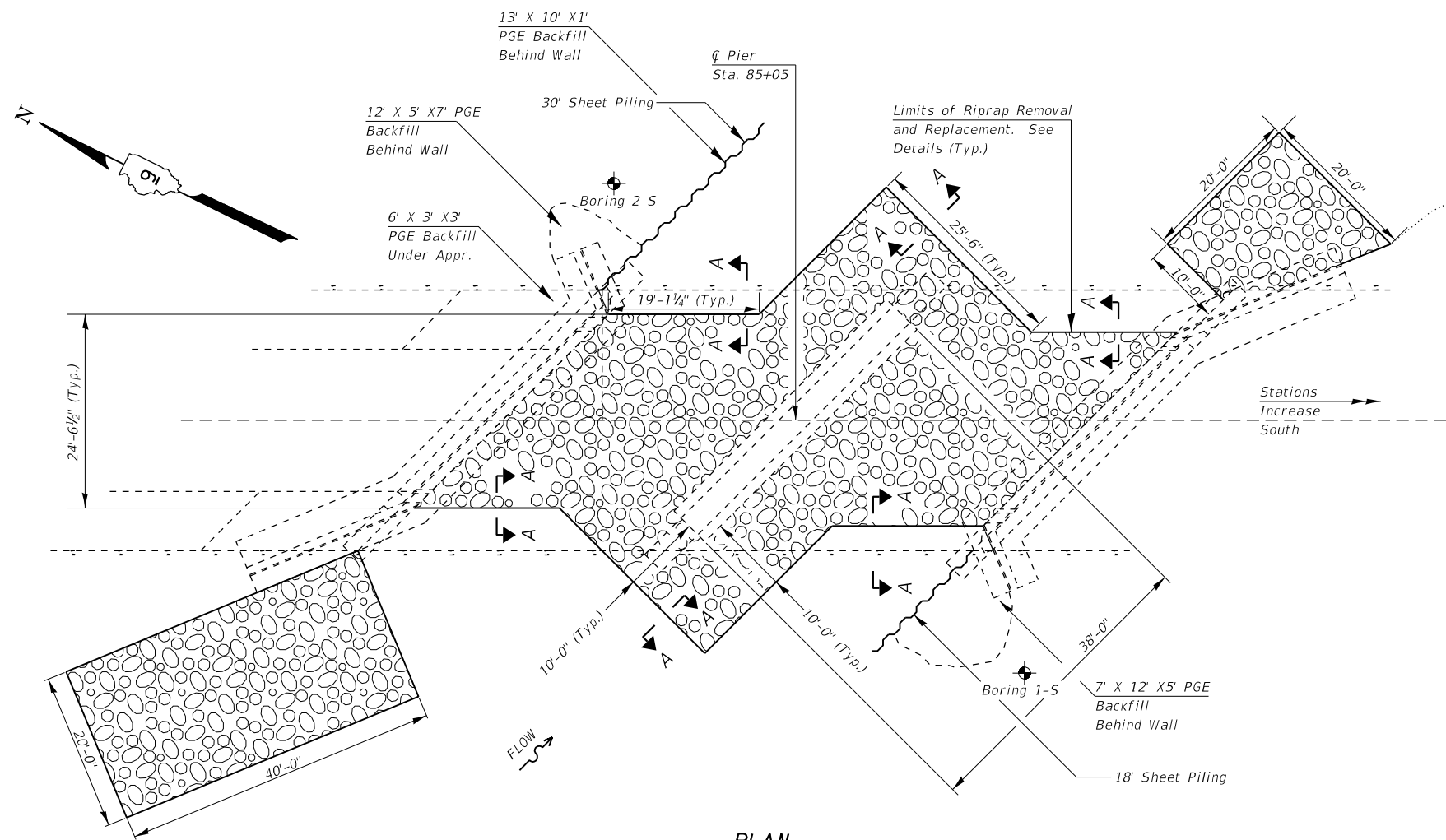
Any timber piles that are encountered shall be removed to the bottom of the bedding elevation. Cost included in the cost of STONE RIPRAP, CLASS A5.



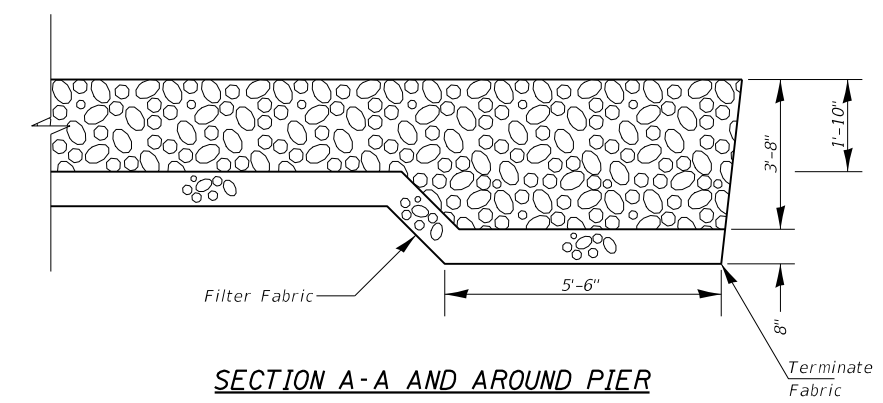
ELEVATION



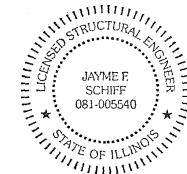
RIPRAP AT 1:1 SLOPES OUTSIDE OF ABUTMENTS



PLAN



SECTION A-A AND AROUND PIER



EXPIRES 11-30-2024

Jayme F. Schiff

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

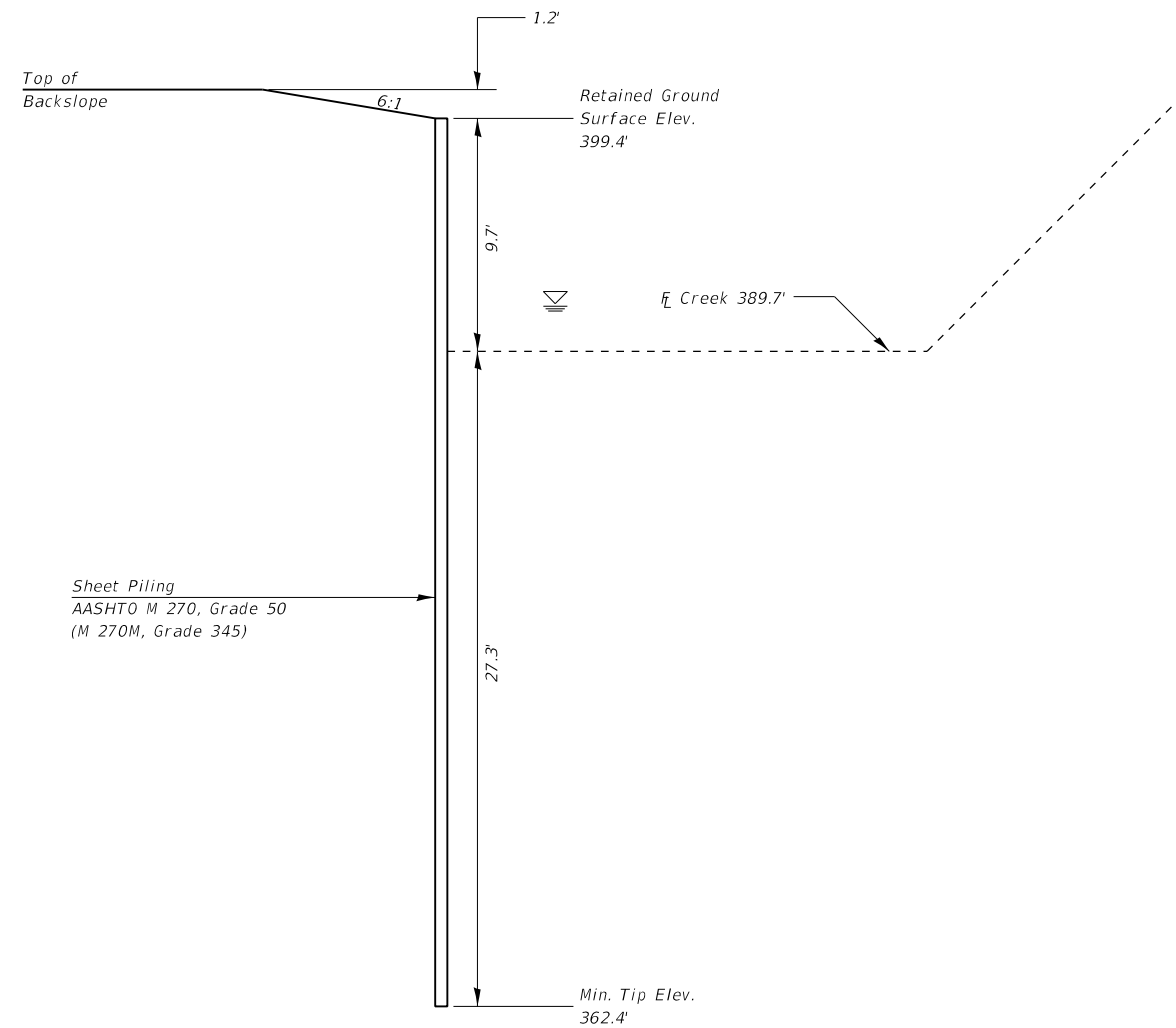
**GENERAL PLAN, ELEVATION, & DETAILS
SN 033-0016**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	1075SCR-1/1155CR-1	**	9	6
CONTRACT NO. 78953				

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

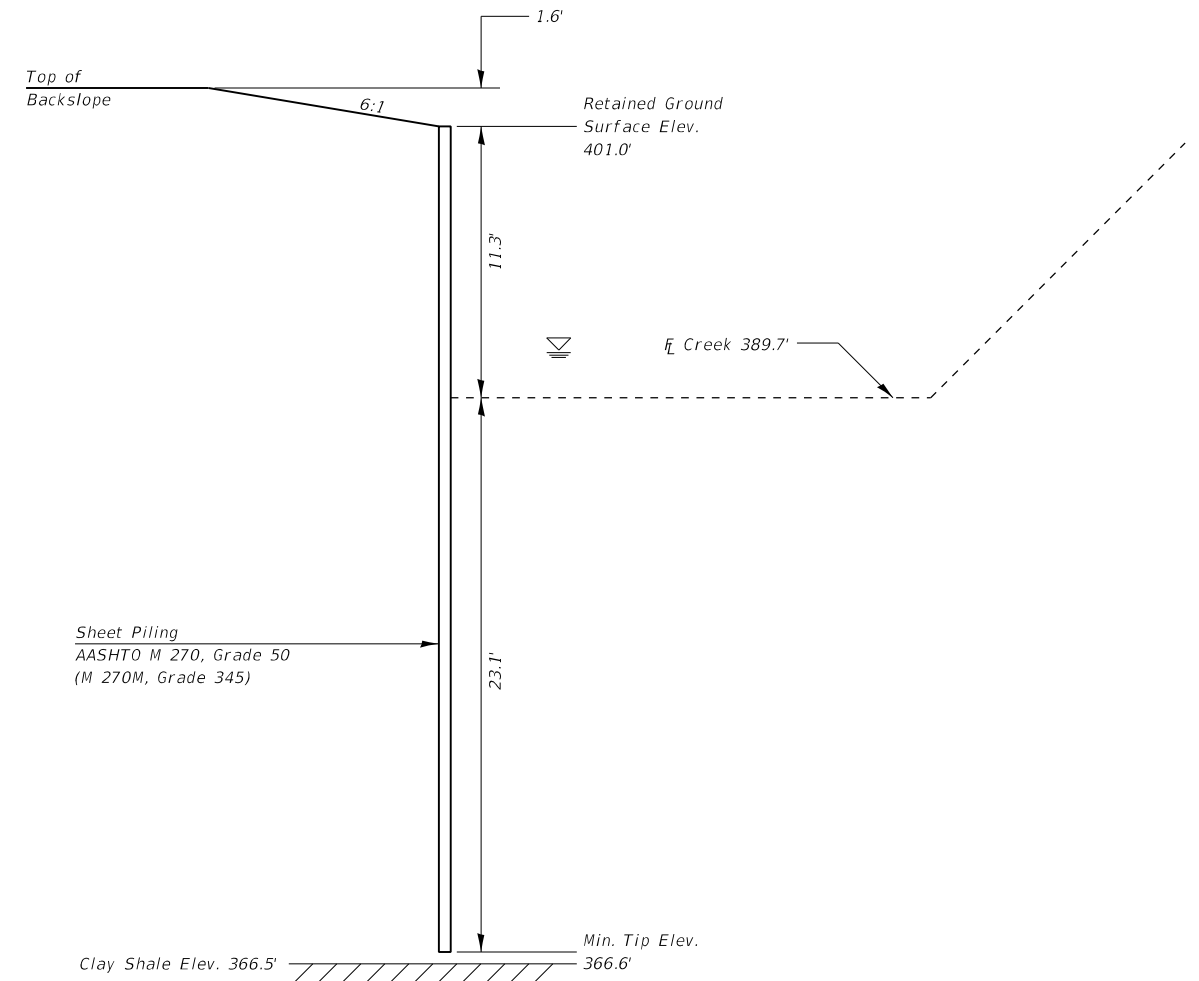
ILLINOIS FED. AID PROJECT
* 873/776 ** FRANKLIN/HAMILTON

Min. Req'd
Section
Modulus =
25.92 Cu. In.
per Ft.



ELEVATION - SW QUAD - BORING 1-S

Min. Req'd
Section
Modulus =
29.0 Cu. In.
per Ft.



ELEVATION - NE QUAD - BORING 2-S

MOEFL - Default
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	DRAWN - _____	REVISED - _____
PLOT SCALE = 8.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 12/15/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE DETAILS
SN 033-0016

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	1075CR-1/115SCR-1	**	9	7
CONTRACT NO. 78953				

* 873/776 ** FRANKLIN/HAMILTON



SOIL BORING LOG

Date 9/20/22

ROUTE IL 142 DESCRIPTION IL 142 over Bear Creek LOGGED BY L. Estel

SECTION 115 BR-1 (Existing) LOCATION 1.8 mi. S of IL 14 (SW Quad.), SEC. 27, TWP. 5S, RNG. 6E, PM

COUNTY Hamilton DRILLING METHOD HSA (8" OD, 3.25" ID) HAMMER TYPE Auto 140 lbs SPT, HE=86.5%

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	LOW (tsf)	UCS (%)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
033-0016	85+05	1-S	85+34	30.0ft Rt	399.4					389.7	389.7	369.9	369.9		
Stiff Brown, Moist SILTY CLAY LOAM															
Medium Stiff Light Grey and Brown, Moist SILTY LOAM (continued)															
Stiff Brown and Grey, Moist SILTY LOAM															
Stiff Brown, Moist SILTY CLAY LOAM															
Soft Grey, Moist SILTY CLAY															
Stiff Grey, Moist SILTY CLAY															
Stiff Grey, Moist CLAY - SILTY CLAY															
Very Stiff Brownish Grey, Moist CLAY - SILTY CLAY															
Medium Stiff light Grey, Moist SILTY LOAM															
Very Stiff light Grey, Moist SILTY LOAM															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 9/20/22

ROUTE IL 142 DESCRIPTION IL 142 over Bear Creek LOGGED BY L. Estel

SECTION 115 BR-1 (Existing) LOCATION 1.8 mi. S of IL 14 (SW Quad.), SEC. 27, TWP. 5S, RNG. 6E, PM

COUNTY Hamilton DRILLING METHOD HSA (8" OD, 3.25" ID) HAMMER TYPE Auto 140 lbs SPT, HE=86.5%

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	LOW (tsf)	UCS (%)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
033-0016	85+05	1-S	85+34	30.0ft Rt	399.4					389.7	389.7	369.9	369.9		
(Washed) Medium Dense Grey, Moist SAND 13% f. GRAVEL & c. SAND, 30% m. SAND, 43% f. SAND, 11% SILT, 3% CLAY, Non-Plastic (Lab 48)															
Stiff Grey, Moist CLAY - CLAY TILL															
Bottom of hole @ 46 ft															
Free water encountered @ 29.5 ft															
To convert "N" values to "N60", multiply by 1.44; Hammer efficiency = 86.5%															
Ground surface elevation referenced to BM 526; Square Cut on NE Pier at Abutment; EL. 400.42															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude 39.0664886 Longitude -88.5337818 Datum NAD83 Job Number

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS\FILE\HAMILTON 033\STRUCTURES\033-0016 142 OVER BEAR CREEK GPJ Data Template D6\TEMPLATE.GDT Date Printed 10/28/22
Latitude 39.0664886 Longitude -88.5337818 Datum NAD83 Job Number

USER NAME = Adrian.Adams	DESIGNED - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 12/15/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
SN 033-0016 SW QUAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	1075SCR-1/115SCR-1	**	9	8
CONTRACT NO. 78953				



SOIL BORING LOG

Date 9/21/22

ROUTE IL 142 DESCRIPTION IL 142 over Bear Creek LOGGED BY L. Estel

SECTION 115 BR-1 (Existing) LOCATION 1.8 mi. S of IL 14 (NE Quad.) SEC. 27, TWP. 5S, RNG. 6E, PM

COUNTY Hamilton DRILLING METHOD HSA (8" OD, 3.25" ID) HAMMER TYPE Auto 140 lbs SPT, HE=86.5%

STRUCT. NO. <u>033-0016</u>	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>389.7</u> ft	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)
Station <u>85+05</u>					Stream Bed Elev. <u>389.7</u> ft				
BORING NO. <u>2-S</u>	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)	Groundwater Elev.:	DEPTH (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)
Station <u>84+82</u>					▽ First Encounter <u>376.5</u> ft				
Offset <u>32.0ft Lt</u>					▽ Upon Completion _____ ft				
Ground Surface Elev. <u>401.0</u> ft					▽ After _____ Hrs. _____ ft				

Very Stiff Brown, Moist SILTY CLAY LOAM					Very Stiff Brown, Moist CLAY LOAM - SANDY CLAY LOAM (continued)				
		3			379.00		3	2.25	19
		6	2.5	12			5	1.1	22
		6	P				7	B	
	396.50				▽ 376.50				
Very Stiff Brown and Grey, Moist SILTY CLAY - SILTY CLAY LOAM		2					1		
		4	2.0	19			2	1.05	20
		5	S				4	B	
	394.00								
Medium Stiff Grey, Moist SILT		2					1		
		2	0.7	23			3	1.65	21
		3	B				4	B	
	391.50				371.50				
Stiff Dark Grey, Moist SILTY CLAY		1					7		
		2	1.25	21			5	1.0	18
		4	B				5	P	
	389.00				369.00				
Stiff Brown and Grey with specks of Black, Moist CLAY - SILTY CLAY		3					6		
		5	1.65	20			20	3.5	7
		6	B				25	P	
	386.50				366.50				
Stiff Brown and mottled Grey, Moist CLAY - SILTY CLAY		3					50		
		4	1.65	21					
		5	B						
	384.00								
Stiff Brown, Moist CLAY LOAM - SANDY CLAY LOAM		1							
		3	1.1	21					
		4	B						
	381.50								
		1							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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USER NAME = Adrian Adams	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOG SN 033-0016 NE QUAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000 ' / in.	CHECKED - _____	REVISED - _____			*	1075CR-1/1155CR-1	**	9	9	
PLOT DATE = 12/15/2022	DATE - _____	REVISED - _____			CONTRACT NO. 78953					
SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____						ILLINOIS FED. AID PROJECT				