

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	(13-1)T-1	JACKSON	14	1
		ILLINOIS	CONTRACT NO. 78A59	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

2023 TRAFFIC DATA
ADT 6200 WITH 8.55% TRUCKS

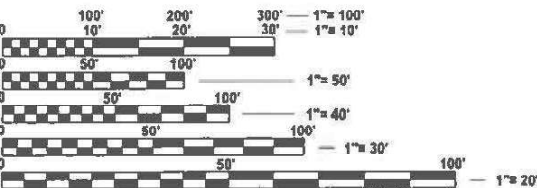
TOWNSHIPS
SOMERSET

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 42 (IL 13/127)
SECTION (13-1)T-1
STORM SEWER REPAIR
JACKSON COUNTY

C-99-083-24

COORDINATE SYSTEM : EPSG:102672
NAD 1983 STATEPLANE ILLINOIS WEST FIPS 1202 FEET
POSTED SPEED : 45 MPH

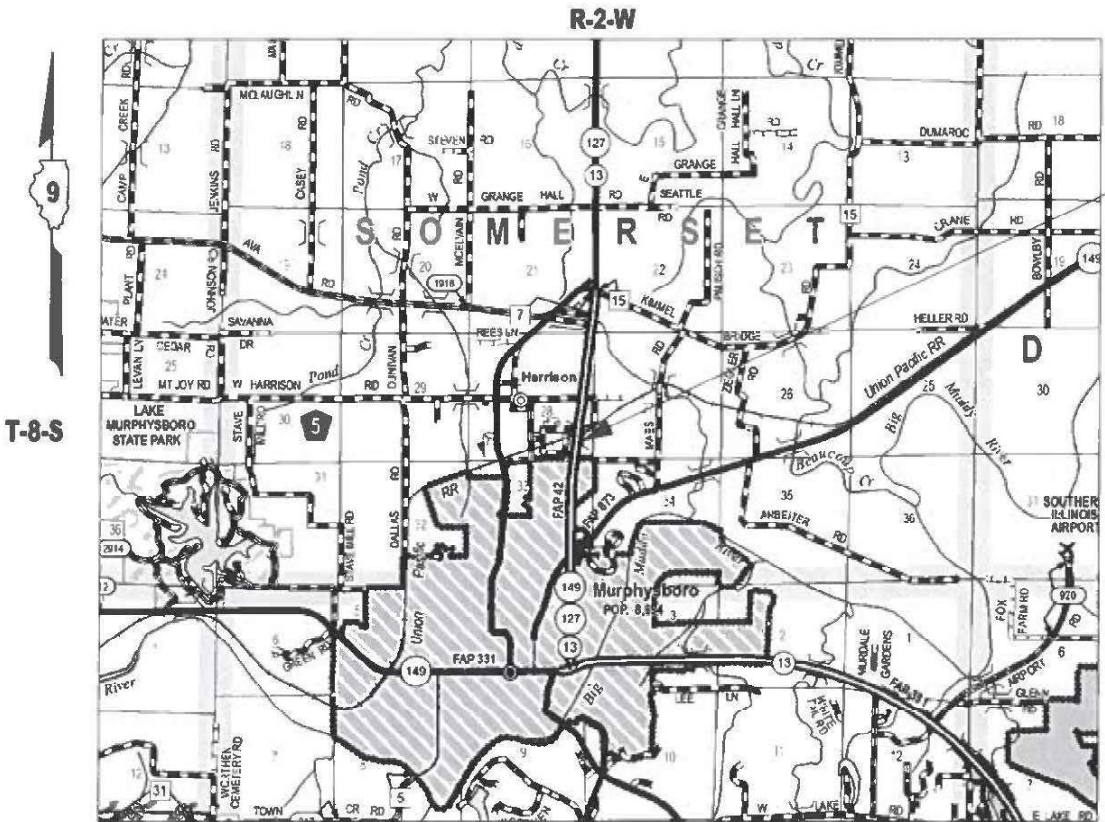


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER NATHAN TAYLOR
PROJECT MANAGER NADIA MCMICHAEL

CONTRACT NO. 78A59



GROSS LENGTH = 466 FT. = 0.088 MILE
NET LENGTH = 466 FT. = 0.088 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 15 20 24
Kirk H. Brown REGIONAL ENGINEER

December 6, 2024
Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT

December 6, 2024
Gemma J. Jan DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

Prepared By: *Susan Poe*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Nancy Lee*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Car Mel*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *R. C. C.*
DISTRICT OPERATIONS ENGINEER

Examined By: *Doris J. Melnick*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Brian Wilts*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Aam Hays*
DISTRICT MATERIALS ENGINEER

GENERAL NOTES

- 1

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

ALL AGGREGATE2.05 TONS/CU. YD.

RIPRAP1.50 TONS/CU. YD.

EXISTING PIPE UNDERDRAIN OUTLETS IN THE FORESLOPES OR MEDIAN SLOPES SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO AN UNDERDRAIN OUTLET RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- 2
- 3
- 4

COMMITMENTS:

1) TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 TO SEPTEMBER 30 OF ANY GIVEN YEAR

2) SHOULD THE PROJECT REQUIRE TEMPORARY OR PERMANENT LIGHTING, ALL LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH FEDERAL HIGHWAY ADMINISTRATION GUIDE FOR BATS WHICH RECOMMENDS THAT LIGHTING DOES NOT INCREASE ILLUMINATION ABOVE AMBIENT CONDITIONS AND THAT INCORPORATES FULL CUT OFF, DOWNWARD FACING LIGHTS DIRECTED AWAY FROM FORESTED AREAS.

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
4-5	SUMMARY OF QUANTITIES
6-7	SCHEDULES
8	DRAINAGE LOCATION
9	REMOVAL PLAN
10	PLAN AND PROFILE
11	DRAINAGE PROTECTION PLAN
12-14	DETAILS

HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006 DECIMAL OF AN INCH AND OF A FOOT
280001-07 TEMPORARY EROSION CONTROL SYSTEMS
542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
664001-02 CHAIN LINK FENCE
701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15 FT TO 24 IN FROM PAVEMENT EDGE
701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT AWAY
701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 45 TO 55 MPH
701901-10 TRAFFIC CONTROL DEVICES

REV - MS

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		DRAWN -	REVISED -				42	(13-1)T-1	JACKSON	14	3
		CHECKED -	REVISED -				CONTRACT NO. 78A59				
	PLOT DATE = 10/7/2024	DATE -	REVISED -		SCALE:	SHEET 3 OF 14 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

COUNTY:	JACKSON CO
ROUTE:	FAP 42
FUNDING:	100% STATE
LOCATION:	URBAN
TOTAL QUANTITY	UTILITIES
	0043

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UTILITIES
20100500	TREE REMOVAL, ACRES	ACRE	0.4	0.4
20300100	CHANNEL EXCAVATION	CU YD	63	63
20900110	POROUS GRANULAR BACKFILL	CU YD	171	171
25000200	SEEDING, CLASS 2	ACRE	0.5	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.9	0.9
25100115	MULCH, METHOD 2	ACRE	0.5	0.5
25100900	TURF REINFORCEMENT MAT	SQ YD	183	183
28100105	STONE RIPRAP, CLASS A3	SQ YD	7	7
28200200	FILTER FABRIC	SQ YD	17	17
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1

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		DRAWN -	REVISED -					42	(13-1)T-1	JACKSON	14	4
		CHECKED -	REVISED -					CONTRACT NO. 78A59				
	PLOT DATE = 10/15/2024	DATE -	REVISED -		SCALE:	SHEET 4 OF 14 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONTD

COUNTY:	JACKSON CO
ROUTE:	FAP 42
FUNDING:	100% STATE
LOCATION:	URBAN
TOTAL QUANTITY	UTILITIES
	0043

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UTILITIES
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	109	109
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1
550A1050	STORM SEWERS, CLASS A, TYPE 4 36"	FOOT	294	294
55101600	STORM SEWER REMOVAL 36"	FOOT	294	294
66400105	CHAIN LINK FENCE, 4'	FOOT	50	50
66405800	CHAIN LINK GATES, 4' X 12' DOUBLE	EACH	1	1
67100100	MOBILIZATION	L SUM	1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
X1700066	POTHOLING	EACH	6	6

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	PLOT DATE = 10/15/2024	DATE -	REVISED -		SCALE:	SHEET 5 OF 14 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

TREE REMOVAL SCHEDULE				
LOCATION PIPE ALIGNMENT			TREE REMOVAL	
			(ACRE)	
IL 13/127 JACKSON COUNTY				
STATION	TO	STATION		
00+62.26	TO	1+18.61	0.1	
1+67.47	TO	4+32.90	0.3	
PROJECT TOTAL			0.4	

POROUS GRANULAR BACKFILL SCHEDULE				
LOCATION PIPE ALIGNMENT			POROUS GRANULAR BACKFILL	
			(CUBIC YARD)	
IL 13/127 JACKSON COUNTY				
STATION	TO	STATION		
00+00.00	TO	2+93.66	171	
PROJECT TOTAL			171	

PIPE SCHEDULE						
LOCATION PIPE ALIGNMENT			STORM SEWER REMOVAL 36 INCH	CONCRETE HEADWALL REMOVAL	STORM SEWERS, CLASS A, TYPE 4 36 INCH	PRECAST REINFORCED CONCRETE FLARED END SECTION, 36 INCH
			(FOOT)	(EACH)	(FOOT)	(EACH)
IL 13/127 JACKSON COUNTY						
STATION	TO	STATION				
00+00.00	TO	2+93.66	294		294	
2+93.66	TO	3+02.14		1		1
PROJECT TOTAL			294	1	294	1

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		CHECKED -	REVISED -		SCALE:			CONTRACT NO. 78A59				
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MODEL: Schedules-1 [Sheet]
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DRAINAGE PROTECTION SCHEDULE									
LOCATION PIPE ALIGNMENT			TEMPORARY SOIL RETENTION SYSTEM	CHANNEL EXCAVATION	FILTER FABRIC	STONE RIPRAP, CLASS A3	CHAIN LINK FENCE	CHAIN LINK GATE	TURF REINFORCEMENT MAT
			(SQUARE FOOT)	(CUBIC YARD)	(SQUARE YARD)	(SQUARE YARD)	(FOOT)	(EACH)	(SQUARE YARD)
IL 13/127 JACKSON COUNTY									
STATION	TO	STATION							
00+00.00	TO	3+02.14	109				50	1	
3+02.14	TO	3+12.14		63	17	7			
3+12.14	TO	4+32.90							183
PROJECT TOTAL			109	63	17	7	50	1	183

SEEDING SCHEDULE							
LOCATION PIPE ALIGNMENT			SEEDING, CLASS 2	NITROGEN FERTILIZER	PHOSPHOROUS FERTILIZER	POTASSIUM FERTILIZER	AGRICULTURAL GROUND LIMESTONE
			(ACRE)	(POUND)	(POUND)	(POUND)	(TONS)
IL 13/127 JACKSON COUNTY							
STATION	TO	STATION					
00+00.00	TO	4+32.90	0.5	45	45	45	0.9
PROJECT TOTAL			0.5	45	45	45	0.9

MODEL: ExB1 - Plan 1 (Sheet)
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	CHECKED -	REVISED -
PLOT DATE = 10/17/2024	DATE -	REVISED -

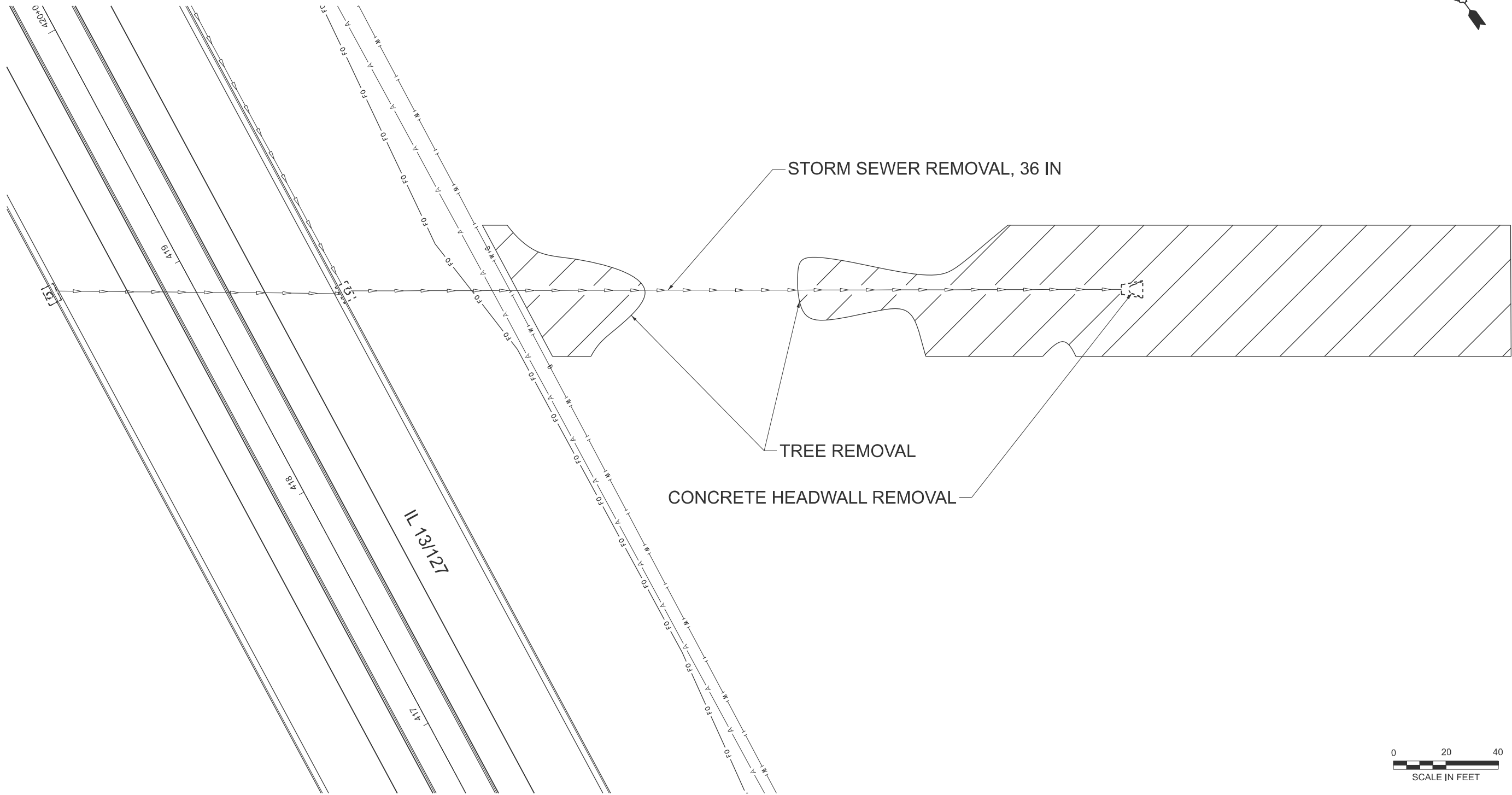
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE LOCATION

SCALE: 1"=30' SHEET 8 OF 14 SHEETS STA. 0+00.00 TO STA. 0+00.00

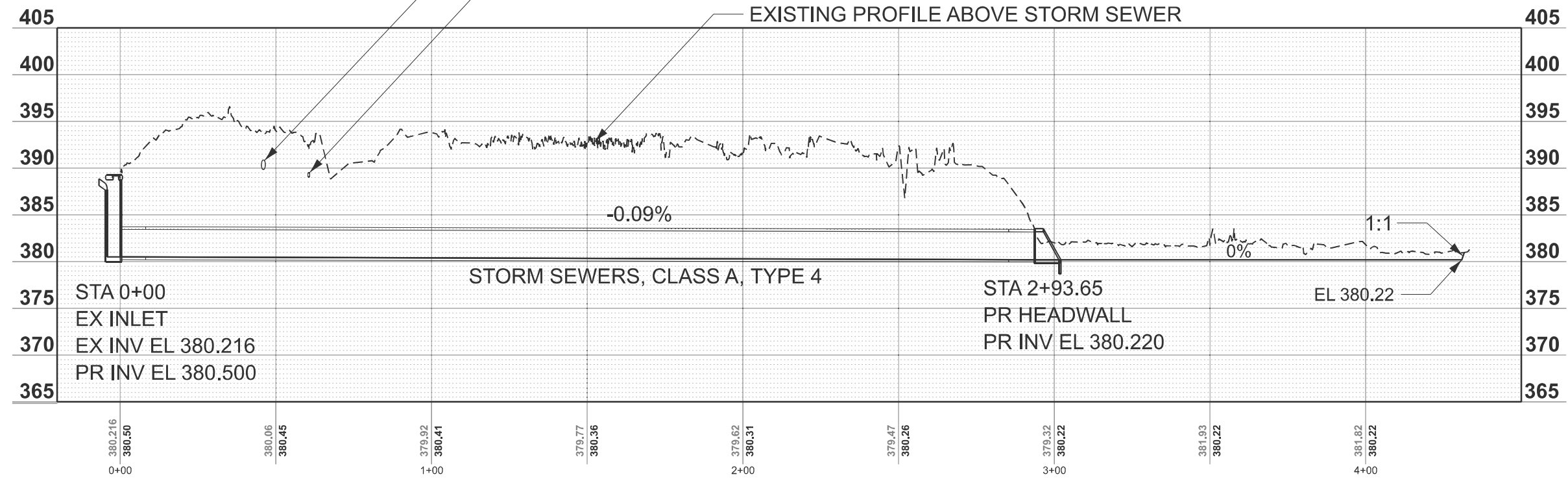
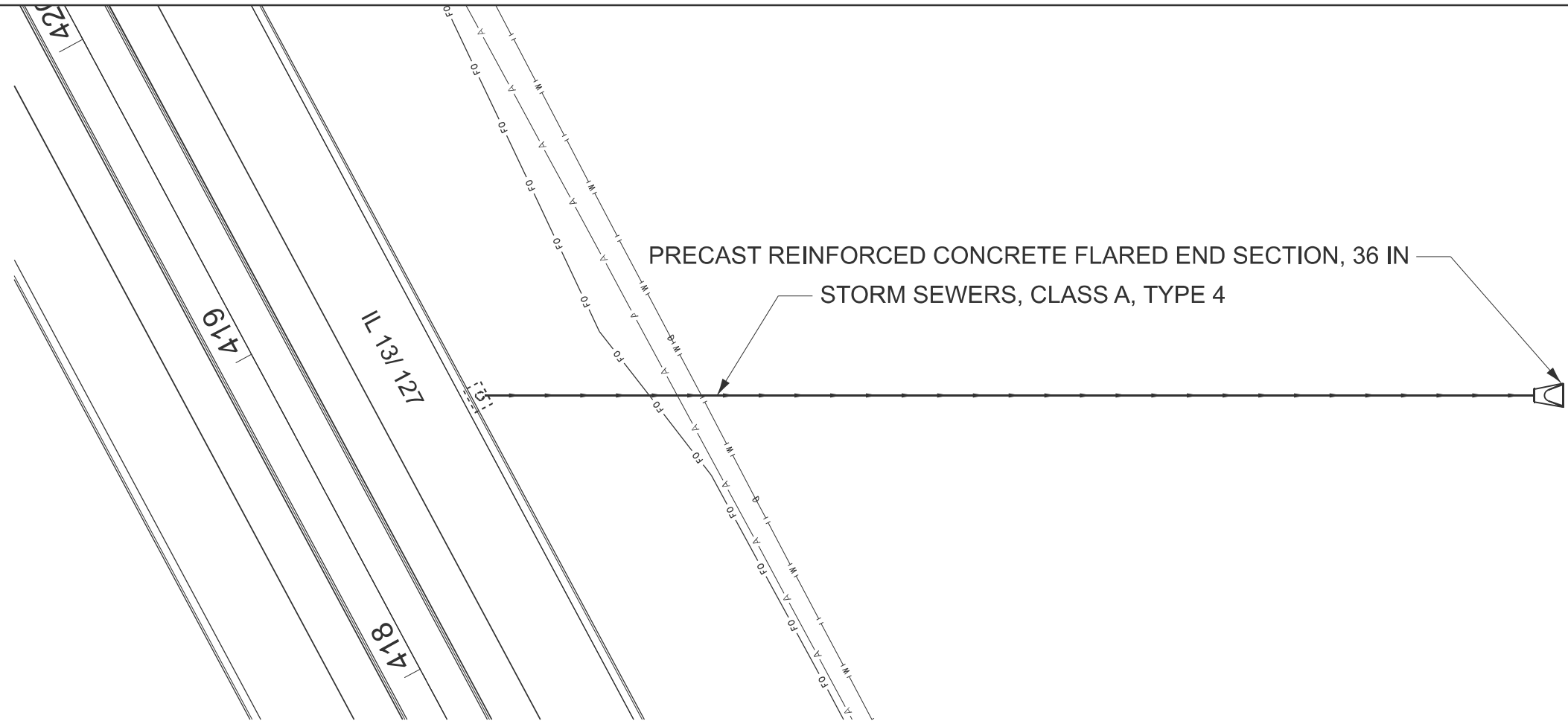
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42	(13-1)T-1	JACKSON	14	8
CONTRACT NO. 78A59				
ILLINOIS FED. AID PROJECT				

MODEL: Existing Pipe and Channel Baseline - Plan 1 [Sheet]
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		CHECKED -	REVISED -					CONTRACT NO. 78A59				
	PLOT DATE = 10/17/2024	DATE -	REVISED -		SCALE: 1"=20'	SHEET 9	OF 14 SHEETS	STA. 0+00.00	TO STA. 5+75.00	ILLINOIS FED. AID PROJECT		

MODEL: Proposed Pipe and Channel Baseline - Plan 1 (Sheet)
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 10/15/2024	DATE	-	REVISED	-

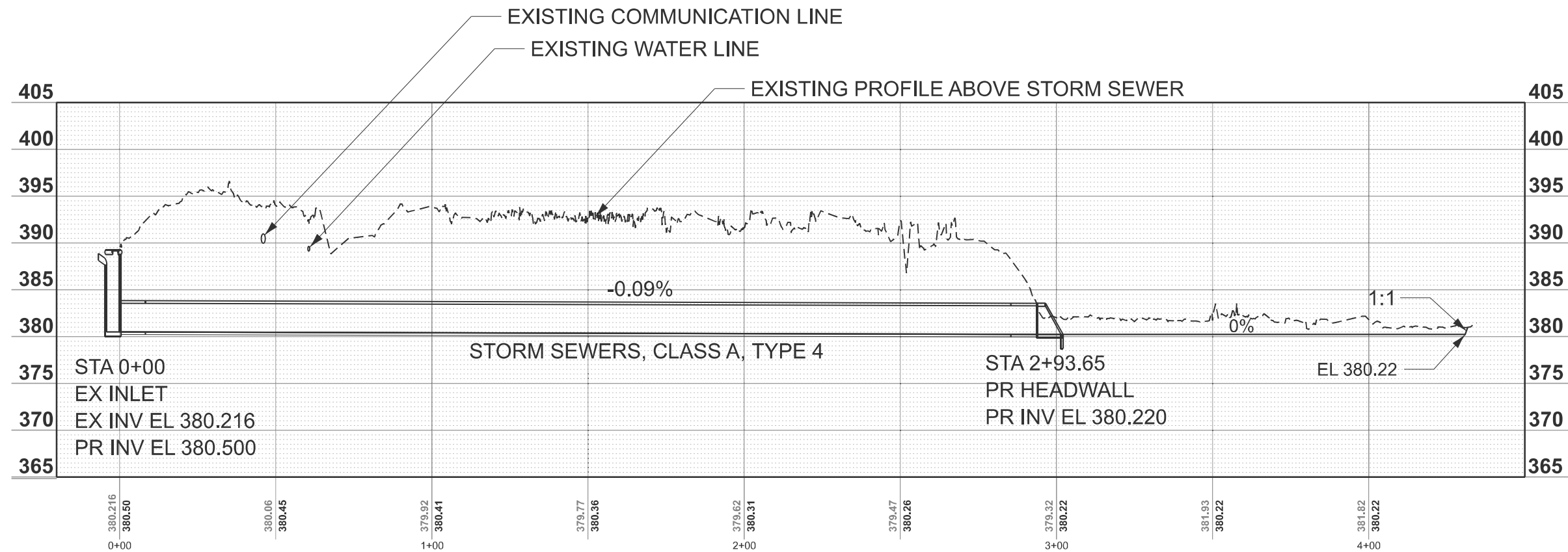
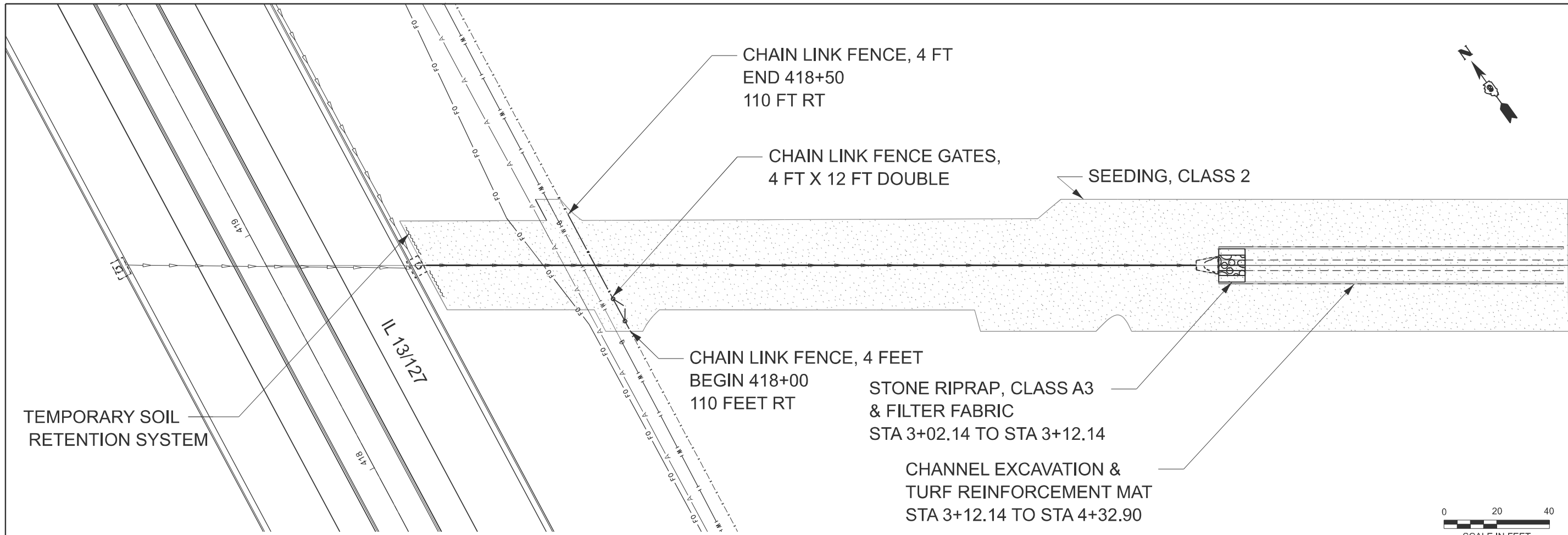
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIPE
PLAN AND PROFILE

SCALE: 1"=20' SHEET 10 OF 14 SHEETS STA. 0+00.00 TO STA. 5+00.00

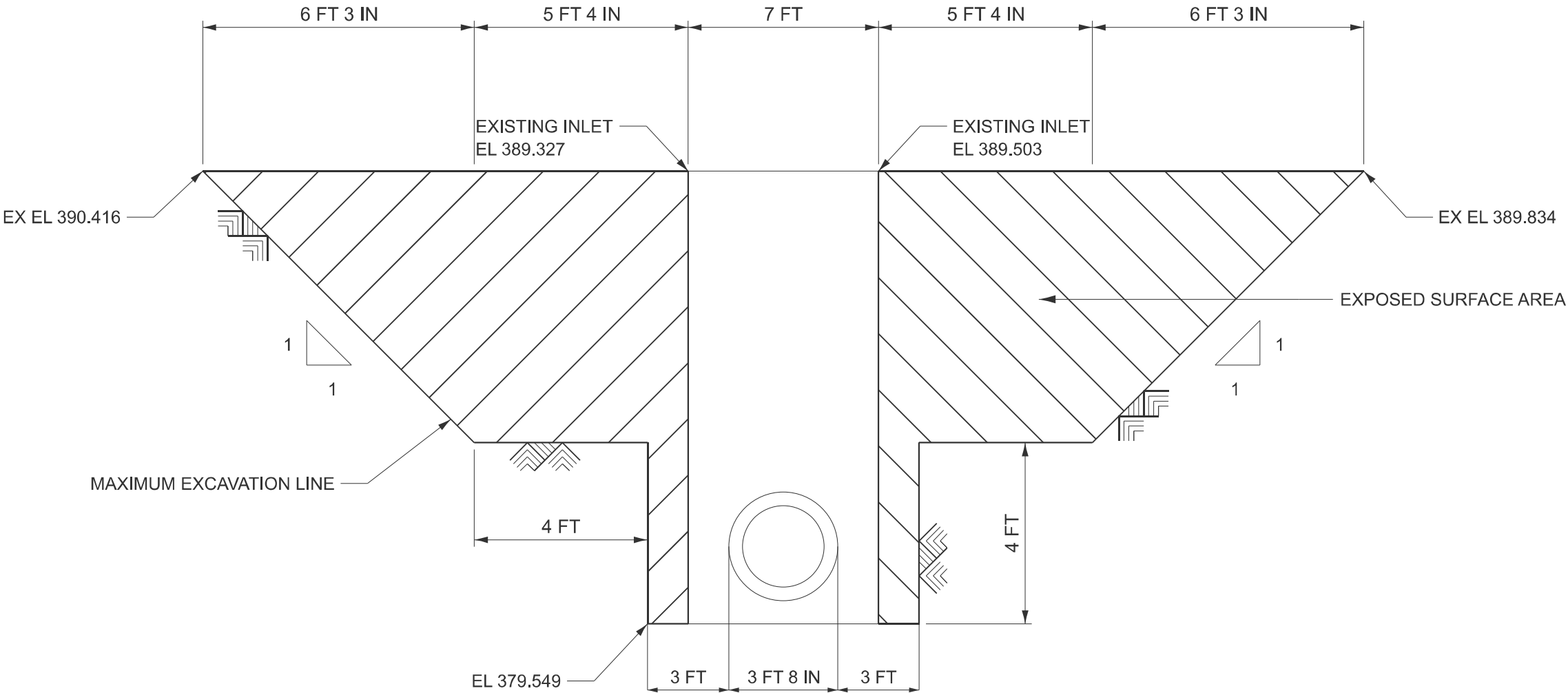
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42	(13-1)T-1	JACKSON	14	10
CONTRACT NO. 78A59				
ILLINOIS FED. AID PROJECT				

MODEL: Existing Pipe and Channel Baseline - Plan 1 [Sheet]
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		DRAWN -	REVISED -							42	(13-1)T-1	JACKSON	14	11
		CHECKED -	REVISED -		CONTRACT NO. 78A59									
	PLOT DATE = 10/17/2024	DATE -	REVISED -		SCALE:1"=20'	SHEET 11	OF 14	SHEETS	STA. 0+00.00	TO STA. 6+00.00	ILLINOIS FED. AID PROJECT			

TEMPORARY SOIL RETENTION SYSTEM



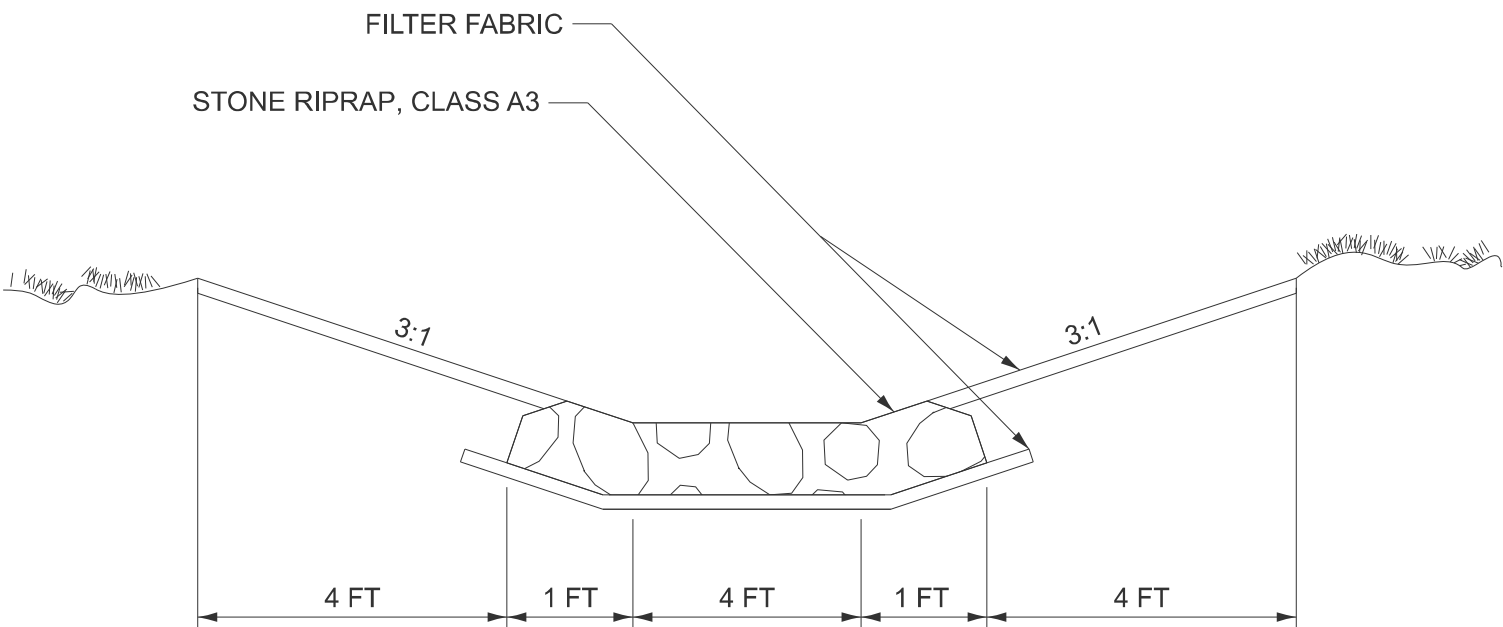
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STA 418+59.58 52 FT RT

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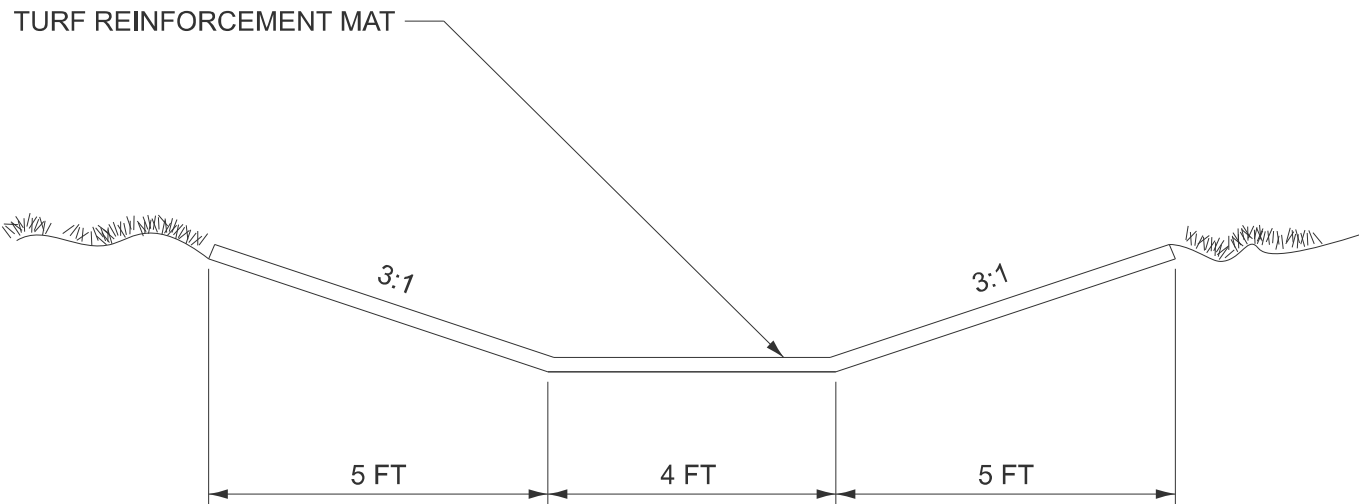
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		DRAWN -	REVISED -					42	(13-1)T-1	JACKSON	14	12
		CHECKED -	REVISED -					CONTRACT NO. 78A59				
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OUTFALL AND CHANNEL EXCAVATION DETAILS



TO BE USED

STA 3+02.14 TO 3+12.14



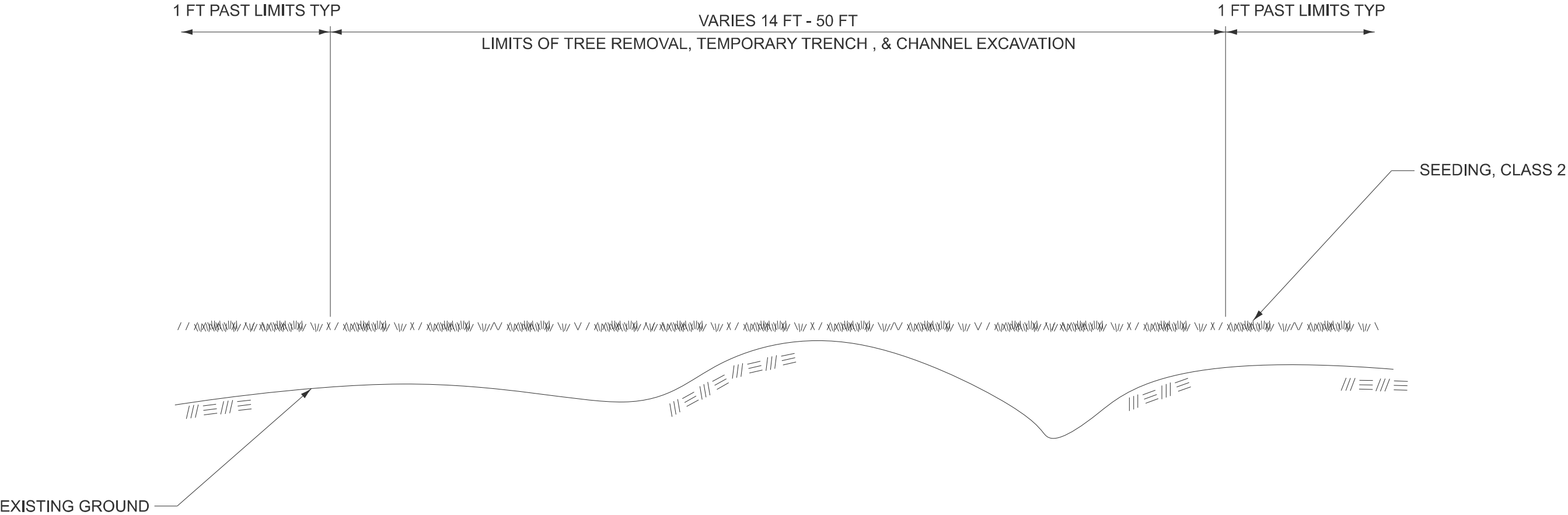
TO BE USED

STA 3+12.14 TO 4+32.90

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		DRAWN -	REVISED -					42	(13-1)T-1	JACKSON	14	13
		CHECKED -	REVISED -					CONTRACT NO. 78A59				
	PLOT DATE = 10/10/2024	DATE -	REVISED -		SCALE:	SHEET 13	OF 14 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SEEDING AND MULCHING DETAILS



TO BE USED

STA 0+00 TO 4+32.90

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		DRAWN -	REVISED -					42	(13-1)T-1	JACKSON	14	14
		CHECKED -	REVISED -					CONTRACT NO. 78A59				
	PLOT DATE = 10/7/2024	DATE -	REVISED -		SCALE:	SHEET 14	OF 14 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		