

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

TAP FUNDS
FAP 0678 (IL ROUTE 4 / N. JEFFERSON ST.)
SECTION 21-00024-02-BT (PH1) / 23-00024-03-BT (PH2)
PROJECT ZQ3A(722)
SHARED-USE PATH
ST. CLAIR COUNTY
C-98-033-23

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678		ST. CLAIR	65	1
		ILLINOIS	CONTRACT NO. 97878	

21-00024-02-BT & 23-00024-03-BT

INDEX OF SHEETS

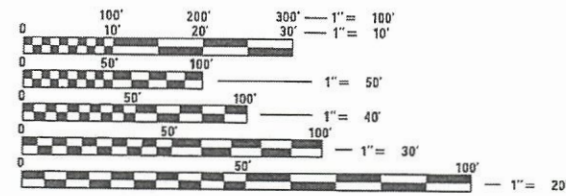
- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS
- 3-6 SUMMARY OF QUANTITIES
- 7-9 TYPICAL SECTIONS
- 10-15 SCHEDULE OF QUANTITIES
- 16-18 REMOVAL PLAN SHEETS
- 19-24 PLAN AND PROFILE
- 25-29 DRAINAGE PLAN AND PROFILE
- 30-32 EROSION CONTROL
- 33-38 STRUCTURAL PLANS
- 39-43 GEOMETRIC DETAILS
- 44-46 PAVEMENT MARKING & SIGNAGE
- 47-48 MISCELLANEOUS DETAILS
- 49 FLASHING BEACON DETAIL
- CROSS SECTIONS
- 50-62 IL ROUTE 4 SUP
- 63-65 BERM TRAIL

LIST OF HIGHWAY STANDARDS

SEE SHEET 2 FOR LIST OF HIGHWAY STANDARDS

DESIGN DESIGNATION

ROUTE NUMBER 0678 (IL RTE 4)
ROADWAY CLASSIFICATION = MINOR ARTERIAL
DESIGN SPEED = 40 MPH
ADT (2021) = 7400 VPD
ADT (2031) = 8175 VPD



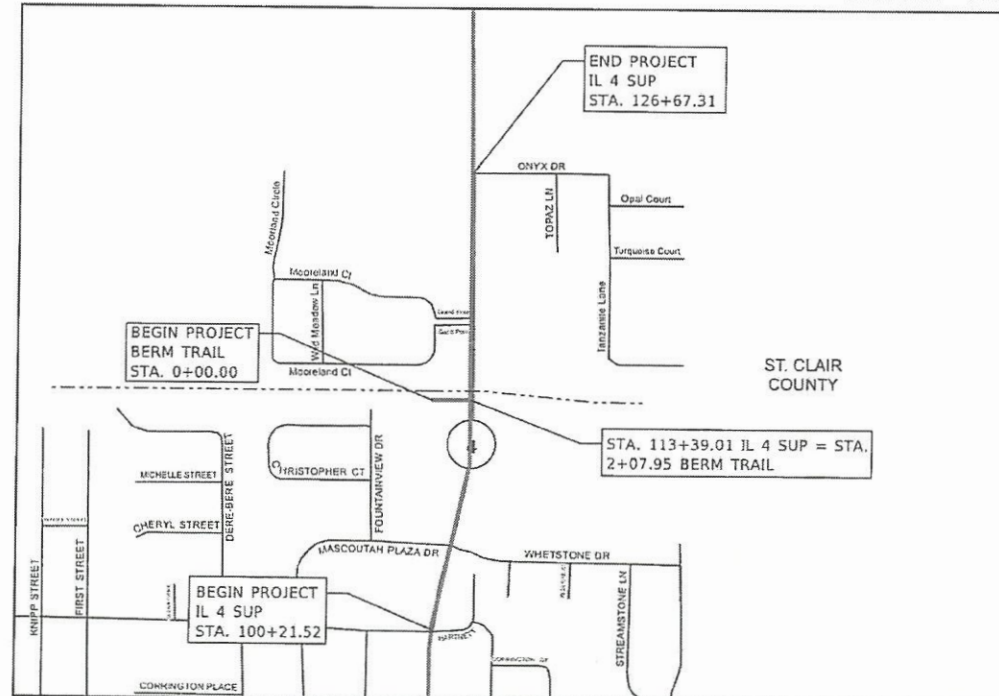
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PLANS PREPARED BY:

TWM ENGINEERING GEOSPATIAL SERVICES
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
www.twm-inc.com

Illinois Professional Design Firm
No. 184-001220
License Expires: 04/30/2027

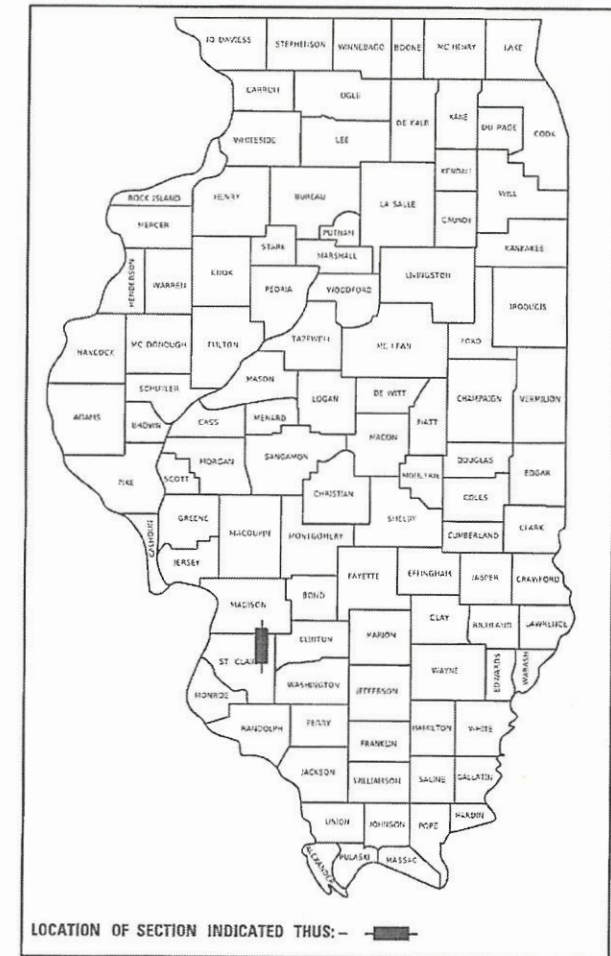


GROSS/NET LENGTH = 2853.74 FT. = 0.540 MILE

N.T.S.



Signed: 1/15/2026
JOSHUA W. STEIN, P.E.
LICENSE NO. 062-062775
EXPIRATION DATE 11-30-2027



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED January 15 20 26
Walter Sutton
MAYOR
CITY OF MASCOUTAH

PASSED 2/19 20 26
[Signature]
DISTRICT 8 ENGINEER
LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW
2/19 20 26
[Signature]
REGION FIVE ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE CITY OF MASCOUTAH AND IDOT AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
- ALL CONSTRUCTION SIGNS SHALL BE 48" FLUORESCENT ORANGE.
- PRIOR TO CONSTRUCTING ANY ENTRANCE, THE PROPERTY OWNER WILL BE NOTIFIED IN WRITING, INFORMING THEM OF CONSTRUCTION AND ESTIMATED DATES CONSTRUCTION WILL TAKE PLACE.
- ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURE.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGH OUT THE CONSTRUCTION PROJECT. THE EMBANKMENT SURFACES SHALL BE SLOPED TO DRAIN OFF THE EMBANKMENT TO SIDE SLOPES. DITCHES ALONG THE SIDES OF THE EMBANKMENT SHALL BE GRADED TO DRAIN THROUGH THE EMBANKMENT UNTIL SUCH TIME THAT PIPE CULVERTS ARE INSTALLED AND FUNCTIONAL. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN EARTH EXCAVATION AND/OR FURNISHED EXCAVATION.
- EXISTING DITCHES/SWALES WILL NEED TO BE REGRADED/SHAPED TO ENSURE ALL FLOWS ENTER THE PROPER DITCH, CROSSROAD CULVERT OR OTHER DRAINAGE APPURTENANCES, UNLESS OTHERWISE INDICATED. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTHWORK, UNLESS NOTED OTHERWISE.
- ALL DRAINAGE STRUCTURES THAT ARE CONSTRUCTED, RECONSTRUCTED OR ADJUSTED SHALL BE CLEANED OF ANY ACCUMULATED SILT OR DEBRIS. THIS WORK WILL BE INCLUDED IN THE THE COST OF VARIOUS DRAINAGE STRUCTURE PAY ITEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE PROPOSED SIDEWALK AND ADJOINING RAMPS IN ACCORDANCE WITH APPLICABLE ADA STANDARDS.
- ALL DETECTABLE WARNING PANELS SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS.
- EXISTING UNDERGROUND AND ABOVE-GRADE UTILITY STRUCTURES AND FACILITIES HAVE BEEN PLOTTED ON THESE PLANS BASED ON TOPOGRAPHIC SURVEYS CONDUCTED DURING DESIGN. THE LOCATIONS OF THESE FEATURES MUST BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES WHICH DID NOT EXIST OR WERE NOT KNOWN DURING PREPARATION OF THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL EXISTING FACILITIES LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION ACTIVITIES AND TO PROTECT ALL SUCH FACILITIES THROUGHOUT CONSTRUCTION.
- ANY EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE IN ACCORDANCE WITH ARTICLE 701.07 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES

- THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. REFER TO THE SPECIAL PROVISIONS "STATUS OF UTILITIES TO BE ADJUSTED" FOR ADDITIONAL INFORMATION:
 - AMEREN IP
 - CHARTER COMMUNICATIONS
 - ILLINOIS AMERICAN WATER CO.
 - CLEARWAVE COMMUNICATIONS
 - FRONTIER COMMUNICATIONS
 - SLM WATER COMMISSION
 - CITY OF MASCOUTAH
- OFFSET - = LT
OFFSET + = RT

COMMITMENTS

NONE

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SDIEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
424026-04	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-07	PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
604036-03	GRATE TYPE 8
604046-03	FRAME AND GRATE TYPE 10
604091-05	FRAME AND GRATE TYPE 24
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-04	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630116	BACK SIDE PROTECTION OF GUARDRAIL
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-11	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION WERE UTILIZED TO CALCULATE CONTRACT QUANTITIES:

AGGREGATES (SURFACE, BASE, BACKFILL)	2.10 TON/CY
BITUMINOUS MATERIALS - TACK COAT (EX. HMA, MILLED SURFACE, CONCRETE, MILLED/TINED CONCRETE)	0.05 LB/SF
BITUMINOUS MATERIALS - TACK COAT (BETWEEN HMA LIFTS, IL 4.75, BRICK)	0.025 LB/SF
BITUMINOUS MATERIAL - PRIME COAT (AGGREGATE BASES)	0.25 LB/SF
HOT-MIX ASPHALT SURFACE/BINDER/BASE	0.056 TON/SY PER INCH
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
AGRICULTURE GROUND LIMESTONE	2 TON/ACRE
MULCH	2 TON/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE	SURFACE	SHOULDERS	CLASS D PATCHES
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=70
MIX COMPOSITION	IL 9.5	IL 19.0L	IL 19.0
FRICTION AGG	MIXTURE "C"		
MIXTURE WEIGHT	115 LBS/SQ YD/IN	115 LBS/SQ YD/IN	115 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA

MODEL Dwg: 11
FILE NAME: P:\2020\20200713\A4 CADD - DWG\K47 TransSheets\200713A-shh-gmnotes.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher
DESIGNED -
DRAWN -
PLOT SCALE = 10.0000 ' / in.
CHECKED -
PLOT DATE = 1/14/2026
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



CITY OF MASCOUTAH

GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	2
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				

* 21-00024-02-BT & 23-00024-03-BT

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
60905305	BOX CULVERTS TO BE CLEANED	FOOT	91
* 63000035	BACK SIDE PROTECTION OF GUARDRAIL	FOOT	198
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	182
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10
67100100	MOBILIZATION	L SUM	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	69
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	6
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	254
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	512
* 78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	229
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	741

* SPECIALTY ITEM

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	111
* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	126
X0324058	OUTLET (SPECIAL)	EACH	2
* X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2
X1700066	POTHOLING	EACH	50
* X2700018	GROOVED THERMOPLASTIC PAVEMENT MARKING- LINE 6"	FOOT	6377
* X2700020	GROOVED THERMOPLASTIC PAVEMENT MARKING- LINE 24"	FOOT	90
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	79
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	409
X5510100	STORM SEWER REMOVAL	FOOT	174
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	40
X6024242	INLETS, SPECIAL, NO. 1	EACH	4
X6024244	INLETS, SPECIAL, NO. 2	EACH	7
X6024246	INLETS, SPECIAL, NO. 3	EACH	3
X6024248	INLETS, SPECIAL, NO. 4	EACH	1

* SPECIALTY ITEM

MODEL: Default
FILE NAME: E:\2024\20240713\AS CADD - DWG\A.7 ItemSheet\20240713-11-C500.dwg



USER NAME = efisher
DESIGNED -
DRAWN -
PLOT SCALE = 2.0000" / 1"
PLOT DATE = 2/2/2026

REVISIONS
REVISIONS
REVISIONS
REVISIONS



CITY OF MASCOUTAH

SUMMARY OF QUANTITIES

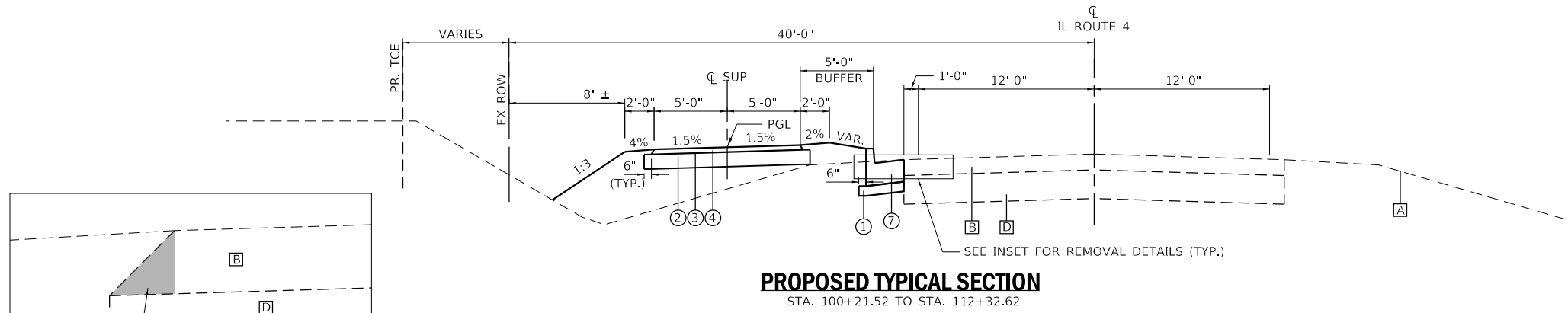
SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	5
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
* 21-00024-02-BT & 23-00024-03-BT

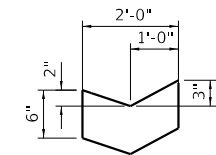
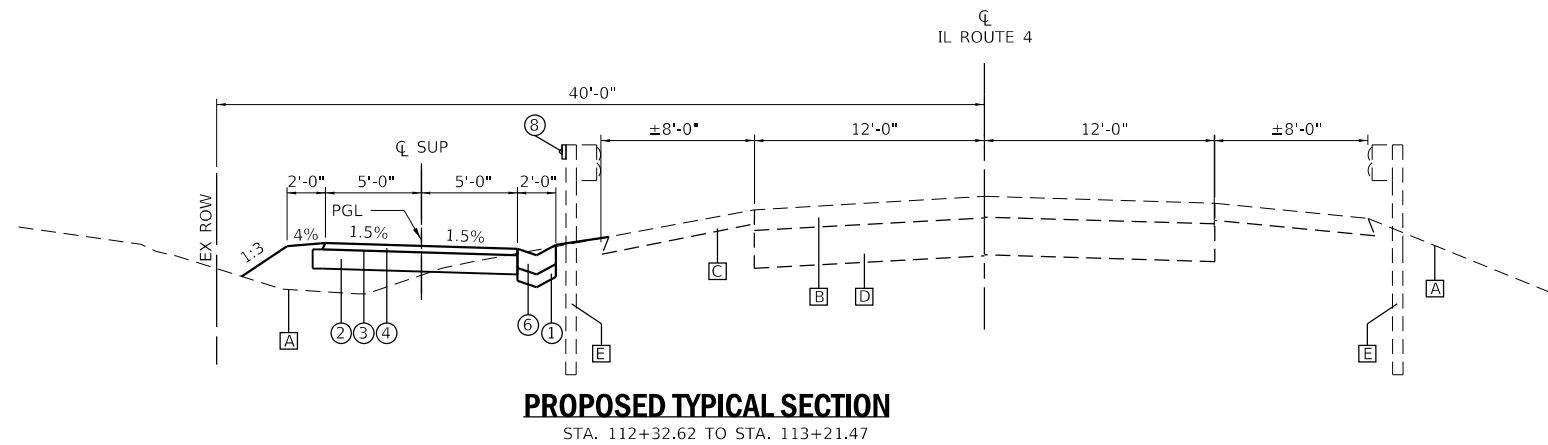
LEGEND

- [A] EX GROUND
 - [B] EX HMA PAVEMENT
 - [C] EX AGGREGATE / EARTH SHOULDER
 - [D] EX AGGREGATE BASE COURSE
 - [E] EX GUARDRAIL
-
- ① PR AGGREGATE BASE COURSE, TYPE A, 4"
 - ② PR AGGREGATE BASE COURSE, TYPE A, 6"
 - ③ PR BITUMINOUS MATERIALS (PRIME COAT)
 - ④ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 2"
 - ⑤ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 6"
 - ⑥ PR TYPE A GUTTER, SPECIAL
 - ⑦ PR COMBINATION CURB AND GUTTER, TYPE B-6.24
 - ⑧ PR BACKSIDE PROTECTION OF GUARDRAIL

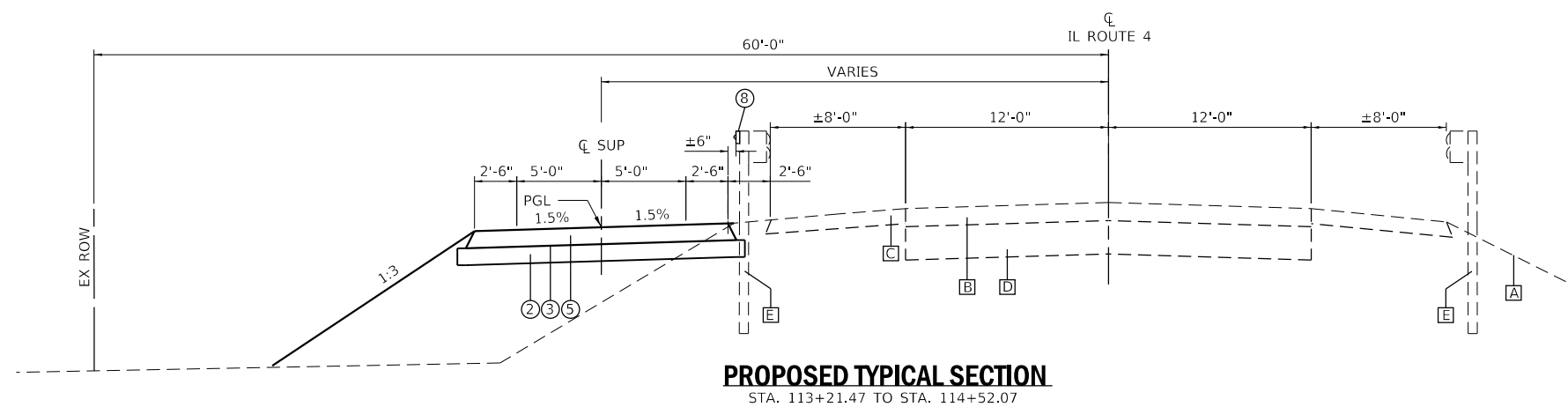


HMA WEDGE TO BE INCLUDED IN PAVEMENT REMOVAL (SPECIAL). SEE SPECIAL PROVISION.

INSET



TYPE A GUTTER, SPECIAL



MODEL: D:\dgn\... FILE NAME: P:\2020\20200713A4_CADD - DWG\K7_TrafficSheets\200713a-sh-typrcal.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

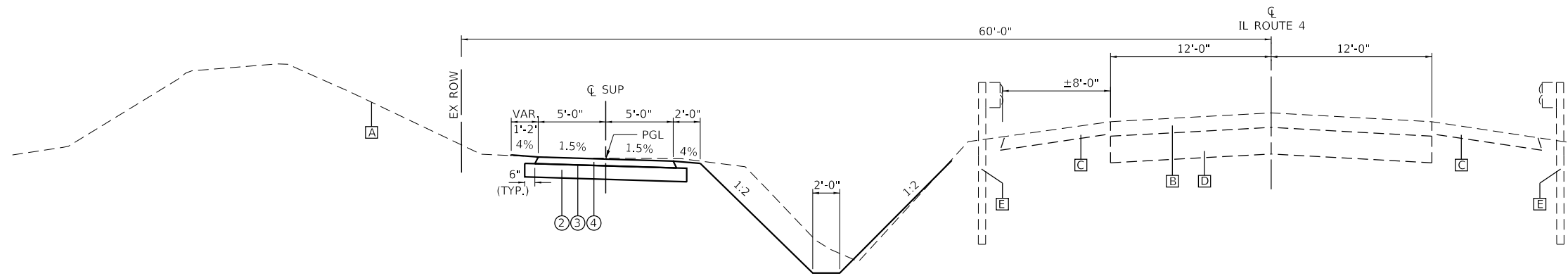
TYPICAL SECTIONS			
IL ROUTE 4			
SCALE: N.T.S.	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 7
			CONTRACT NO. 97878	
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

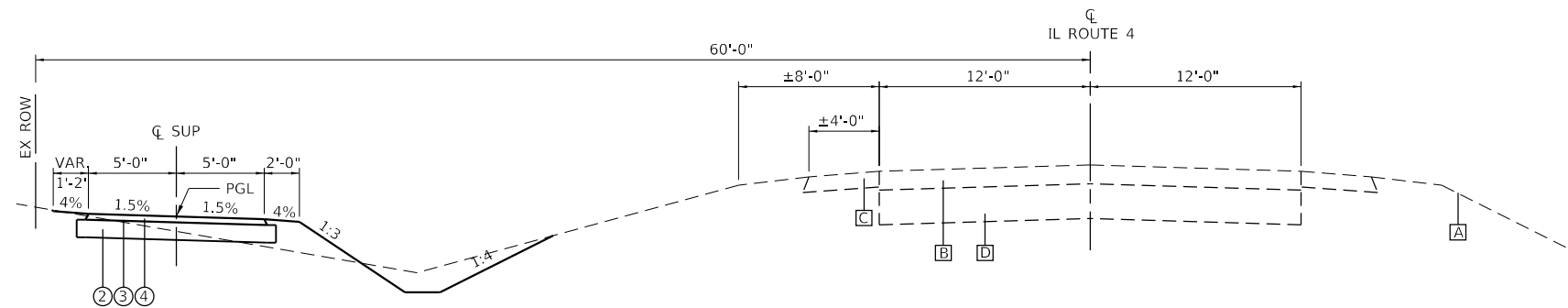
LEGEND

- [A] EX GROUND
- [B] EX HMA PAVEMENT
- [C] EX AGGREGATE / EARTH SHOULDER
- [D] EX AGGREGATE BASE COURSE
- [E] EX GUARDRAIL

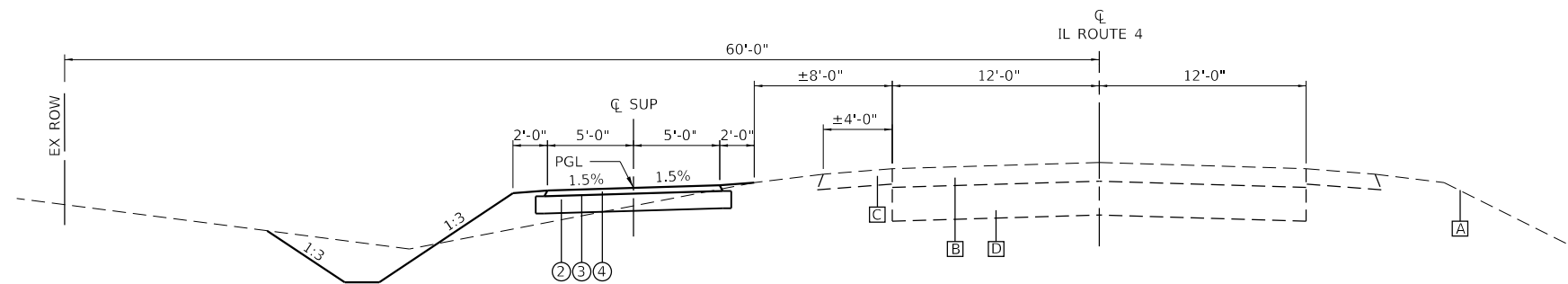
- ① PR AGGREGATE BASE COURSE, TYPE A, 4"
- ② PR AGGREGATE BASE COURSE, TYPE A, 6"
- ③ PR BITUMINOUS MATERIALS (PRIME COAT)
- ④ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 2"
- ⑤ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 6"
- ⑥ PR TYPE A GUTTER, SPECIAL
- ⑦ PR COMBINATION CURB AND GUTTER, TYPE B-6.24
- ⑧ PR BACKSIDE PROTECTION OF GUARDRAIL



PROPOSED TYPICAL SECTION
STA. 114+52.07 TO STA. 118++13.82



PROPOSED TYPICAL SECTION
STA. 118+13.82 TO STA. 123+41.72



PROPOSED TYPICAL SECTION
STA. 123+41.72 TO STA. 126+67.31

MODEL: D:\dgn\11\11-2022\02\020713A4_CADD - DWG\K4.7_Tpm\Sheets\200713A-sh-tyr\p\cals.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

TYPICAL SECTIONS IL ROUTE 4			
SCALE: N.T.S.	SHEET 2	OF 3 SHEETS	STA. TO STA.

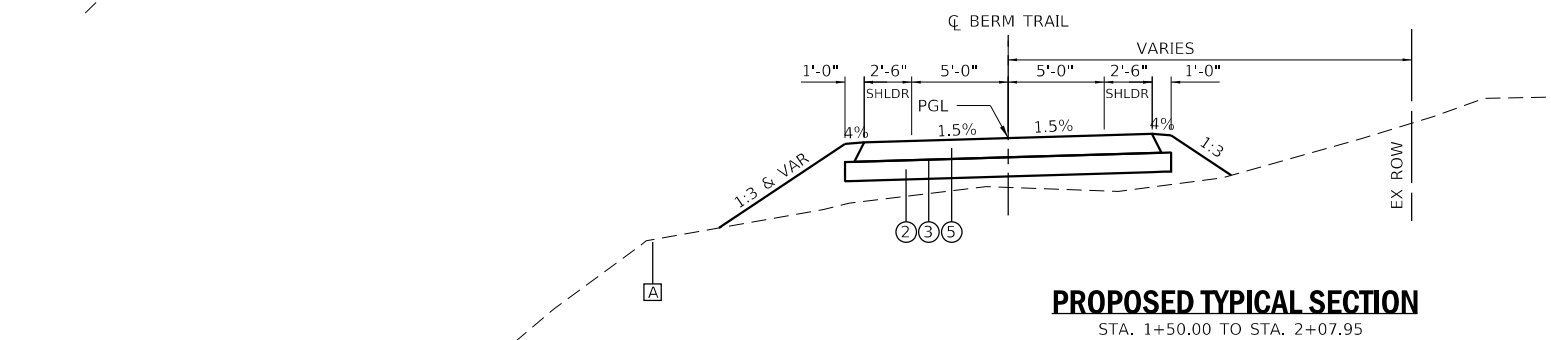
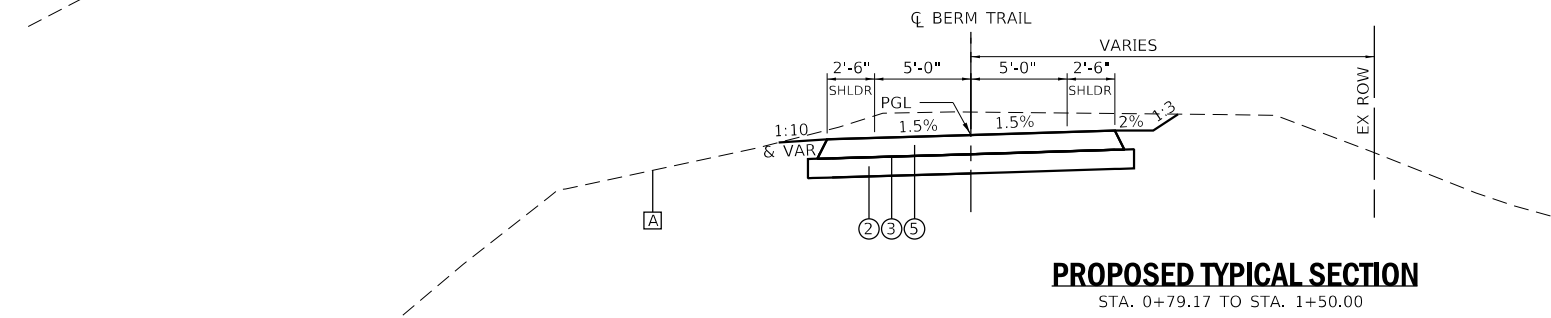
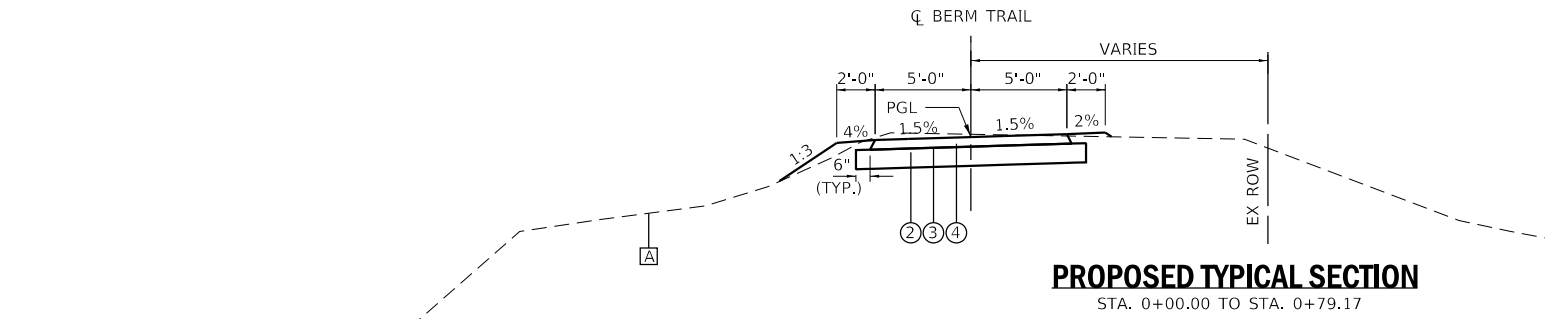
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	8
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
* 21-00024-02-BT & 23-00024-03-BT

LEGEND

- [A] EX GROUND
- [B] EX HMA PAVEMENT
- [C] EX AGGREGATE / EARTH SHOULDER
- [D] EX AGGREGATE BASE COURSE
- [E] EX GUARDRAIL

- ① PR AGGREGATE BASE COURSE, TYPE A, 4"
- ② PR AGGREGATE BASE COURSE, TYPE A, 6"
- ③ PR BITUMINOUS MATERIALS (PRIME COAT)
- ④ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 2"
- ⑤ PR HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 6"
- ⑥ PR TYPE A GUTTER, SPECIAL
- ⑦ PR COMBINATION CURB AND GUTTER, TYPE B-6.24
- ⑧ PR BACKSIDE PROTECTION OF GUARDRAIL



MODEL: D:\dgn\Twm\02020200713A4 CADD - DWG\K7 Tbm\Sheets\200713a-sh-tyr\calcdgn
 FILE NAME: P:\2020\200713A4 CADD - DWG\K7 Tbm\Sheets\200713a-sh-tyr\calcdgn


TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

TYPICAL SECTIONS			
BERM TRAIL CONNECTOR			
SCALE: N.T.S.	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	9
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

EARTHWORK SCHEDULE							
			FOR INFORMATION ONLY				
			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	FURNISHED EXCAVATION
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD	CU YD
IL ROUTE 4							
100+27.19	TO	126+00.00	881	661	1350	-689	689
SUB-TOTAL:			881	661	1350	-689	689
BERM TRAIL							
0+00.00	TO	1+90.26	82	62	106	-45	45
SUB-TOTAL:			82	62	106	-45	45
PAY TOTAL:			965				735

SEEDING SCHEDULE							
LOCATION			SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 3
STATION	TO	STATION	ACRE	POUND	POUND	POUND	ACRE
IL ROUTE 4							
100+26.22	TO	126+68.31	1.058	95.3	95.3	95.3	1.058
SUBTOTAL:			1.058	95.3	95.3	95.3	1.058
BERM TRAIL							
+00	TO	1+90.26	0.074	6.6	6.6	6.6	0.074
SUBTOTAL:			0.074	6.6	6.6	6.6	0.074
PAY TOTAL:			1.25	100	100	100	1.25

REMOVAL SCHEDULE											
LOCATION			PAVEMENT REMOVAL (SPECIAL)	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	DRIVEWAY PAVEMENT REMOVAL	STORM SEWER REMOVAL	PIPE CULVERT REMOVAL	CONCRETE MEDIAN REMOVAL	REMOVE SIGN PANEL ASSEMBLY - TYPE A	DRAINAGE STRUCTURE TO BE REMOVED
STATION	TO	STATION	SQ YD	FOOT	SQ FT	SQ YD	FOOT	FOOT	SQ FT	EACH	EACH
IL ROUTE 4											
EAST HARNETT STREET											
EAST HARNETT STREET	TO	101+89.81	15.4								2
101+89.81				15.8		123.3	58.3				1
101+89.81	TO	102+90.72	5.0								
102+90.72			7.5			118.9		50.2			
102+90.72	TO	MASCOUTAH PLAZA DRIVE	2.9								
MASCOUTAH PLAZA DRIVE											
			351.5	64.7	161.2			98.9	79.0		
MASCOUTAH PLAZA DRIVE	TO	108+14.56	8.9					2.7			
108+14.56			15.1			93.0		46.9			
108+14.56	TO	110+53.55	2.9								
110+53.55						115.8					
111+54.87						131.2		45.0			
GRAND PRAIRIE DRIVE											
121+05.68					93.4	215.6		105.6			
LEGACY PLACE				64.0	329.4			42.3			
HERITAGE WAY				19.4			17.7	8.0			
SUBTOTAL:			409	195	620	798	174	399	79	0	3
BERM TRAIL											
START	TO	END	0.1							3	
SUBTOTAL:			0	0	0	0	0	0	0	3	0
TOTAL:			409	195	620	798	174	399	79	3	3

MODEL: D:\p4\it...
 FILE NAME: P:\2020\20200713A4_CADD - DWG\K47_Tam\Schedules\200713A4-sh-Schedule.dgn



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = efisher
 PLOT SCALE = 2,000' / 1" in.
 PLOT DATE = 1/14/2026

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



CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES
 SCALE: N.T.S. SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	10
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				

* 21-00024-02-BT & 23-00024-03-BT

SIGNAGE SCHEDULE											
LOCATION			DESCRIPTION					SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	
STATION			SIGN	SHAPE	SIZE			SQ FT	FOOT	EACH	
IL ROUTE 4											
100+38.93	18.71	LT	R5-3	REC	24	X	24	4.00	13.2		
100+58.01	7.30	RT	NO PASSING ZONE, COMMUNITY PARK SIGN, R2-1	-	-	-	-		15.7	1	
100+48.55	9.25	LT	R1-1 WALK YOUR BIKE	OCT REC	18 24	X X	18 24	2.25 4.00	14.6		
104+42.85	1.28	RT	R1-1	OCT	18	X	18	2.25	12.5		
105+46.81	16.21	LT	STREET NAME SIGN	-	-	-	-		13.2	1	
105+69.04	11.81	LT	R1-1	OCT	18	X	18	2.25	12.6		
106+12.17	7.09	RT	R2-1	-	-	-	-		13.7	1	
117+59.59	8.00	RT	R1-1	OCT	18	X	18	2.25	12.8		
117+86.24	12.55	LT	R1-1, STREET NAME SIGN (x2)	-	-	-	-		15.7	1	
118+67.64	8.00	LT	R1-1	OCT	18	X	18	2.25	12.4		
122+69.20	6.82	RT	R1-1	OCT	18	X	18	2.25	12.3		
123+03.54	12.00	LT	R1-1, STREET NAME SIGN (x2)	-	-	-	-		15.7	2	
123+33.50	55.63	RT	W11-15	REC	30	X	30	6.25	18.2		
			W16-9P	REC	24	X	12	2.00			
			R1-6e	REC	12	X	36	3.00			
123+91.00	8.00	LT	R1-1	OCT	18	X	18	2.25	12.6		
126+33.31	10.34	LT	R5-3	REC	24	X	24	4.00	13.1		
126+33.31	5.66	RT	R1-1	OCT	18	X	18	2.25	14.1		
			WALK YOUR BIKE	REC	24	X	24	4.00			
			W16-7P	REC	21	X	15	2.19			
126+36.81	51.47	RT	W16-7P	REC	21	X	15	2.19			
			W16-7P	REC	21	X	15	2.19			
			R10-25	REC	9	X	12	0.75			
126+36.81	6.08	RT	W16-7P	REC	21	X	15	2.19			
			W16-7P	REC	21	X	15	2.19			
			R10-25	REC	9	X	12	0.75			
END			W11-15	REC	30	X	30	6.25	18.2		
			W16-9P	REC	24	X	12	2.00			
			R1-6e	REC	12	X	36	3.00			
SUBTOTAL:								66.76	241	6	
BERM TRAIL											
1+89.95	10.50	RT	R1-1	OCT	18	X	18	2.25	13.2		
SUBTOTAL:								2.25	13	0	
TOTAL:								69	254	6	

MISC. SCHEDULE					
LOCATION			WOOD RAIL	BACK SIDE PROTECTION OF GUARDRAIL	
STATION			FOOT	FOOT	
IL ROUTE 4					
112+53.86	TO	114+52.07	RT		198.2
113+50.91	TO	114+08.79	LT	42.7	
TOTAL:				43	198

EROSION CONTROL SCHEDULE							
LOCATION			TEMPORARY DITCH CHECKS		INLET AND PIPE PROTECTION	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER
STATION	TO	STATION	EACH	FOOT	EACH	SQ YD	FOOT
IL ROUTE 4							
100+00.00	TO	106+00.00	1	9	15		
106+00.00	TO	112+00.00	3	27	14		
112+00.00	TO	118+00.00	2	18	5		74.1
118+00.00	TO	124+00.00	2	18	5	146	
124+00.00	TO	126+83.42	1	9	1	189	
SUB-TOTAL:			81		40	335	74
BERM TRAIL							
0+00.00	TO	2+07.95	1	9	1	0	171.2
SUB-TOTAL:			9		1	0	171
TOTAL:			90		41	335	245

MODEL: D:\efish\11-20-2020\200713A4 CADD - DWG\47 Tpm\Sched\13A4-Sched.dwg
 FILE NAME: P:\2020\200713A4 CADD - DWG\47 Tpm\Sched\13A4-Sched.dwg



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = efisher
 PLOT SCALE = 2,000' / 1" in.
 PLOT DATE = 1/14/2026

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



CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	11
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT

PAVEMENT MARKING SCHEDULE

LOCATION					PAVEMENT MARKING REMOVAL - WATER BLASTING	GROOVED THERMOPLASTIC PAVEMENT MARKING			PAINT PAVEMENT MARKING				
						LINE 6"		LINE 24"	LINE 4"	LINE 8"	LINE 12"	LINE 24"	
						YELLOW FOOT	WHITE FOOT	WHITE FOOT	YELLOW FOOT	WHITE FOOT	WHITE FOOT	WHITE FOOT	
STATION	TO	STATION	LOCATION	TYPE	SQ FT								
IL ROUTE 4 SUP													
IL ROUTE 4			CENTERLINE	DOUBLE	107.6 *	6297.5							
EAST HARNETT STREET			CROSSWALK	SINGLE			79.9	90.0					
EAST HARNETT STREET TO MASCOUTAH PLAZA DRIVE			STOP BAR	SINGLE							76.4		
MASCOUTAH PLAZA DRIVE			STOP BARS	SINGLE							10.0		
MASCOUTAH PLAZA DRIVE TO GRAND PRAIRIE DRIVE			CL MARKING	SKIP-DASH					62.5				
GRAND PRAIRIE DRIVE			STOP BAR	SINGLE								33.4	
GRAND PRAIRIE DRIVE			CROSSWALK	SINGLE							169.4		
GRAND PRAIRIE DRIVE TO LEGACY PLACE			STOP BARS	SINGLE							10.0		
LEGACY PLACE			CL MARKING	SKIP-DASH					240.1				
LEGACY PLACE			EDGE LINES	SINGLE						228.6			
LEGACY PLACE			DIAGONALS	SINGLE							84.7		
LEGACY PLACE TO HERITAGE WAY			STOP BAR	SINGLE								13.9	
HERITAGE WAY			CROSSWALK	SINGLE							117.4		
HERITAGE WAY			STOP BARS	SINGLE							10.0		
HERITAGE WAY			CL MARKING	SKIP-DASH					100.6				
HERITAGE WAY			CROSSWALK	SINGLE							162.7		
HERITAGE WAY			STOP BAR	SINGLE								34.1	
HERITAGE WAY			STOP BARS	SINGLE							10.0		
HERITAGE WAY			CL MARKING	SKIP-DASH					60.8				
HERITAGE WAY			CROSSWALK	SINGLE							83.4		
HERITAGE WAY			STOP BAR	SINGLE								16.8	
SUBTOTAL:						126.3	6297.5	79.9	90.0	464.0	228.6	734.0	111.2
BERM TRAIL													
START	TO	END	CL MARKING	SKIP-DASH							47.6		
			STOP BAR	SINGLE								7.5	
SUBTOTAL:					0	0	0	0	47.6	0	7.5	0	
TOTAL:					126	6377	90	512	229	741	111		

*APPROXIMATELY 200 FEET SOUTH OF EAST HARNETT STREET TO 265 FEET NORTH OF ONYX DRIVE

ENTRANCE SCHEDULE

LOCATION	AGGREGATE BASE COURSE, TYPE A*	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	PROTECTIVE COAT**	AGGREGATE FOR TEMPORARY ACCESS	CONCRETE MEDIAN, TYPE SB (SPECIAL)
STATION	TON	SQ YD	SQ YD	SQ YD	TON	SQ FT
IL ROUTE 4						
101+89.81	27.4		117.4	117.4	54.8	
102+90.72	29.8		127.6	127.6	59.5	
MASCOUTAH PLAZA DRIVE	76.1	317.6		317.6	148.2	79.0
108+14.56	24.4		104.4	104.4	48.7	
110+53.55	28.2		120.8	120.8	56.4	
111+54.87	30.4		130.5	130.5	60.9	
GRAND PRAIRIE DRIVE	49.5	212.3		212.3	99.1	
SUBTOTAL:	266	530	601	1131	528	79
FROM PAVING SCHEDULE:	913.2					
FROM G&G SCHEDULE:	115.8			451.1		
FROM SIDEWALK SCHEDULE:	168.7					
TOTAL:	1464	530	601	1582	528	79

* SEE PAVING, C&G, AND SIDEWALK SCHEDULE FOR ADDITIONAL QUANTITY

** SEE C&G FOR ADDITIONAL QUANTITY

RIPRAP SCHEDULE

LOCATION	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	SQ YD	SQ YD	SQ YD
IL ROUTE 4			
100+32.60	RT	5.5	5.5
115+79.63	RT	436.0	436.0
SUBTOTAL:		442	442
FROM STRUCTURAL SHEETS		88.0	88.0
TOTAL:		442	530

MODEL: D:\p\11... FILE NAME: P:\2020\2020\13A4 CAD - DWG\K47 Tables\Schedules\200713a4sh-Schedules.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/14/2026	DATE -	REVISED -



CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	12
CONTRACT NO. 97878				

* 21-00024-02-BT & 23-00024-03-BT

CURB AND GUTTER SCHEDULE									
LOCATION			COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	CONCRETE GUTTER, TYPE A (SPECIAL)	CLASS SI CONCRETE (OUTLET), SPECIAL	OUTLET (SPECIAL)	PROTECTIVE COAT*	AGGREGATE BASE COURSE, TYPE A*
STATION	TO	STATION	FOOT	FOOT	FOOT	CU YD	EACH	SQ YD	TON
IL ROUTE 4									
EAST HARNETT STREET				53.6				17.9	4.3
EAST HARNETT STREET	TO	101+89.81		92.5				30.8	7.4
101+89.81				54.5			2.0	18.2	6.4
101+89.81	TO	102+90.72		25.1				8.4	2.0
102+90.72				73.2				24.4	5.9
102+90.72	TO	MASCOUTAH PLAZA DRIVE		54.0				18.0	4.3
MASCOUTAH PLAZA DRIVE				200.4				66.8	16.0
MASCOUTAH PLAZA DRIVE	TO	108+14.56		156.3				52.1	12.5
108+14.56				74.4				24.8	6.0
108+14.56	TO	110+53.55		164.2				54.7	13.1
110+53.55				68.7				22.9	5.5
110+53.55	TO	111+54.87		20.0				6.7	1.6
111+54.87				84.3				28.1	6.7
111+54.87	TO	GRAND PRAIRIE DRIVE			78.7	2.7		17.5	8.3
GRAND PRAIRIE DRIVE				88.0				29.3	7.0
LEGACY PLACE			64.2					17.8	4.3
LEGACY PLACE	TO	HERITAGE WAY		37.8				12.6	4.5
TOTAL:			64	1247	79	2.7	2	451	116

*SEE ENTRANCE SCHEDULE FOR TOTAL QUANTITY

PAVING SCHEDULE							
LOCATION			HOT-MIX ASPHALT SHOULDERS, 8"	AGGREGATE BASE COURSE, TYPE A*	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	BITUMINOUS MATERIALS (PRIME COAT)	CLASS D PATCHES, TYPE IV, 10 INCH
STATION	TO	STATION	SQ YD	TON	TON	POUND	SQ YD
IL ROUTE 4							
EAST HARNETT STREET	TO	MASCOUTAH PLAZA DRIVE		96.6	28.6	564.4	34.2
MASCOUTAH PLAZA DRIVE	TO	GRAND PRAIRIE DRIVE		437.4	187.3	2576.0	
GRAND PRAIRIE DRIVE	TO	LEGACY PLACE		172.2	50.9	1006.4	
LEGACY PLACE	TO	HERITAGE WAY	6.4	104.0	30.8	608.0	
SUBTOTAL:			6	810	298	4755	34
BERM TRAIL							
START	TO	END		103.1	74.4	615.2	
SUBTOTAL:			0	103	74	615	0
TOTAL:			6	913	372	5370	34

*SEE ENTRANCE FOR TOTAL QUANTITY

SIDEWALK SCHEDULE					
LOCATION			PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	DETECTABLE WARNINGS	AGGREGATE BASE COURSE, TYPE A*
STATION	TO	STATION	SQ FT	SQ FT	TON
IL ROUTE 4					
EAST HARNETT STREET			283.2	23.3	11.0
EAST HARNETT STREET	TO	MASCOUTAH PLAZA DRIVE	918.6		32.3
MASCOUTAH PLAZA DRIVE			636.6	55.0	16.5
MASCOUTAH PLAZA DRIVE	TO	GRAND PRAIRIE DRIVE	1257.5		37.9
GRAND PRAIRIE DRIVE			614.5	54.3	23.9
LEGACY PLACE			549.5	64.0	21.4
HERITAGE WAY			565.2	66.6	22.0
ONYX DRIVE			97.3	16.6	3.8
TOTAL:			4922	280	169

*SEE ENTRANCE SCHEDULE FOR TOTAL QUANTITY

MODEL: D:\dms\it... FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_TrafficSheets\200713a-sh-Schedule.dgn



USER NAME = efisher
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 2,000' / in.
 PLOT DATE = 1/14/2026

DESIGNED -
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -



CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	13
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				

* 21-00024-02-BT & 23-00024-03-BT

DRAINAGE STRUCTURES SCHEDULE

LOCATION				MANHOLES, TYPE A, 4'-DIAMETER			INLETS					INLETS, SPECIAL,					METAL FLARED END SECTIONS		PRECAST REINFORCED CONCRETE FLARED END SECTIONS		
				TYPE 1 FRAME, CLOSED LID	TYPE 8 GRATE	TYPE 24 FRAME AND GRATE	TYPE A		TYPE B			NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	12"	15"	ARCH, EQUIVALENT ROUND-SIZE 30"	24"	30"
							TYPE 3 FRAME AND GRATE	TYPE 8 GRATE	TYPE 10 FRAME AND GRATE	TYPE 3 FRAME AND GRATE	TYPE 8 GRATE										
STRUCTURE	STATION	OFFSET	LT/RT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
IL ROUTE 4																					
P-1-1A	100+27.06	4.18	LT																1		
E-1-OUTLET	100+32.00	55.08	RT																1		
P-1-1	100+38.52	8.72	LT																1		
P-1-2	100+47.88	7.24	RT				1														
P-1-5	101+62.61	10.66	LT																1		
P-1-4	101+64.52	6.88	RT				1														
P-1-6	102+15.68	10.47	LT																		
P-1-7	102+41.03	7.50	LT									1									
P-1-7a	102+41.03	14.44	LT																1		
P-1-8	102+41.03	10.00	RT				1														
P-1-9	102+68.22	10.50	LT																1		
P-1-10	103+13.20	10.37	LT																1		
P-1-11	103+18.49	7.23	RT				1														
P-1-12	103+25.00	0.00																	1		
P-1-15	104+05.76	13.07	LT																1		
P-1-13	104+05.77	0.00																	1		
P-1-14	104+05.70	8.95	RT				1														
P-1-16	104+72.71	15.35	LT																1		
P-1-17	105+41.31	15.16	LT																1		
P-1-18	105+60.33	12.21	LT	1																	
P-1-20	105+85.21	6.92	RT				1														
P-1-19	105+85.22	9.72	LT																1		
P-1-21	107+00.00	9.50	LT																1		
P-1-22	107+00.00	10.00	RT				1														
P-1-23	107+95.71	8.66	LT																1		
P-1-24	108+33.40	8.51	LT																1		
P-1-25	108+68.88	7.50	LT																1		
P-1-26	108+68.88	10.00	RT				1														
P-1-27	108+68.88	14.50	LT																1		
P-1-28	109+87.06	7.50	LT																1		
P-1-29	109+87.06	10.00	RT				1														
P-1-30	110+26.19	7.07	RT				1														
P-2-1A	110+82.60	7.30	RT				1														
P-2-1	111+22.97	7.21	RT																1		
P-2-2	111+22.97	10.67	LT																1		
P-2-3	111+74.95	8.92	LT																1		
P-2-4	111+96.72	11.90	RT				1														
P-2-5	112+00.00	0.00		1																	
P-2-8	112+61.42	0.00		1																	
P-2-7	112+61.42	6.00	RT																1		
P-2-11	113+18.97	0.00		1																	
P-2-10	113+18.97	6.00	RT																1		
P-3-1	114+92.04	17.77	RT																1		
P-3-2	116+69.22	18.68	RT																1		
P-3-3	117+50.00	15.47	LT																		
P-3-4	117+89.13	8.06	LT																1		
P-3-5	118+38.51	8.09	LT																1		
P-3-6	118+64.34	17.25	LT																1		
P-3-7	119+54.07	15.72	RT																1		
P-3-8	120+73.96	13.34	RT																1		
P-3-9	121+34.25	13.00	RT																1		
P-3-10	121+78.66	12.89	RT																1		
P-3-12	122+81.04	14.46	LT																1		
P-3-11	122+81.15	7.47	LT	1																	
P-3-13	123+93.57	6.53	LT	1																	
P-3-14	124+19.51	19.87	LT																1		
P-3-15	126+28.24	21.98	LT																1		
BERM TRAIL																					
P-4-1	1+70.00	16.15	RT																1		
P-4-2	1+70.00	14.99	LT																1		
TOTAL:				6	2	2	12	1	2	2	1	4	7	3	1	2	2	3	1	7	

MODEL: D:\a\h\it... FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_TranSched.dwg



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	14
CONTRACT NO. 97878				

* 21-00024-02-BT & 23-00024-03-BT

STORM SEWER SCHEDULE																		
LOCATION										STORM SEWERS							TRENCH BACKFILL	
										CLASS A					CLASS B			
										TYPE 1					EQUIVALENT ROUND-SIZE 30"	12"		15"
PIPE	STR.	STATION	OFFSET	LT/RT	TO	STR.	STATION	OFFSET	LT/RT	FOOT	12"	18"	24"	30"			FOOT	
IL ROUTE 4																		
E-OUTLET	P-1-1A	100+27.06	4.18	LT	TO	E-1-OUTLET	100+32.00	55.08	RT						51.0			7.2
P-1-1	P-1-1A	100+27.06	4.18	LT	TO	P-1-1	100+38.52	8.72	LT						8.2			1.3
P-1-7a	P-1-7a	102+41.03	14.44	LT	TO	P-1-7	102+41.03	7.50	LT							5.0		0.0
P-1-3	P-1-1	100+38.52	8.72	LT	TO	P-1-5	101+62.61	10.66	LT						121.9			1.4
P-1-2	P-1-1	100+38.52	8.72	LT	TO	P-1-2	100+47.88	7.24	RT		16.3							2.2
P-1-5	P-1-5	101+62.61	10.66	LT	TO	P-1-4	101+64.52	6.88	RT		15.5							2.0
P-1-6	P-1-5	101+62.61	10.66	LT	TO	P-1-6	102+15.68	10.47	LT						49.3			17.6
P-1-7	P-1-6	102+15.68	10.47	LT	TO	P-1-7	102+41.03	7.50	LT						22.2			0.0
P-1-8	P-1-8	102+41.03	10.00	RT	TO	P-1-7	102+41.03	7.50	LT		15.2							2.0
P-1-9	P-1-7	102+41.03	7.50	LT	TO	P-1-9	102+68.22	10.50	LT						24.4			0.0
P-1-10	P-1-9	102+68.22	10.50	LT	TO	P-1-10	103+13.20	10.37	LT						41.2			6.6
P-1-11	P-1-10	103+13.20	10.37	LT	TO	P-1-12	103+25.00	0.00							13.9			2.9
P-1-12	P-1-11	103+18.49	7.23	RT	TO	P-1-12	103+25.00	0.00			7.4							1.0
P-1-13	P-1-12	103+25.00	0.00		TO	P-1-13	104+05.77	0.00							76.8			20.7
P-1-15	P-1-15	104+05.76	13.07	LT	TO	P-1-13	104+05.77	0.00								11.1		0.7
P-1-14	P-1-13	104+05.77	0.00		TO	P-1-14	104+05.70	8.95	RT		6.7							0.9
P-1-16	P-1-13	104+05.77	0.00		TO	P-1-16	104+72.71	15.35	LT				65.4					7.6
P-1-17	P-1-16	104+72.71	15.35	LT	TO	P-1-17	105+41.31	15.16	LT				65.5					7.6
P-1-18	P-1-17	105+41.31	15.16	LT	TO	P-1-18	105+60.33	12.21	LT				15.1					1.8
P-1-19	P-1-18	105+60.33	12.21	LT	TO	P-1-19	105+85.22	9.72	LT				21.2					2.5
P-1-20	P-1-20	105+85.21	6.92	RT	TO	P-1-19	105+85.22	9.72	LT		14.4							1.9
P-1-21	P-1-19	105+85.22	9.72	LT	TO	P-1-21	107+00.00	9.50	LT				110.8					0.0
P-1-22	P-1-22	107+00.00	10.00	RT	TO	P-1-21	107+00.00	9.50	LT		17.2							2.3
P-1-23	P-1-21	107+00.00	9.50	LT	TO	P-1-23	107+95.71	8.66	LT			91.6						0.0
P-1-24	P-1-23	107+95.71	8.66	LT	TO	P-1-24	108+33.40	8.51	LT			34.2						3.6
P-1-25	P-1-24	108+33.40	8.51	LT	TO	P-1-25	108+68.88	7.50	LT			31.7						0.0
P-1-26	P-1-26	108+68.88	10.00	RT	TO	P-1-25	108+68.88	7.50	LT		15.2							2.0
P-1-27	P-1-27	108+68.88	14.50	LT	TO	P-1-25	108+68.88	7.50	LT							5.0		0.0
P-1-28	P-1-25	108+68.88	7.50	LT	TO	P-1-28	109+87.06	7.50	LT			113.8						0.0
P-1-29	P-1-29	109+87.06	10.00	RT	TO	P-1-28	109+87.06	7.50	LT		15.2							2.0
P-1-30	P-1-28	109+87.06	7.50	LT	TO	P-1-30	110+26.19	7.07	RT		39.6							5.2
P-2-1A	P-2-1A	110+82.60	7.30	RT	TO	P-2-1	111+22.97	7.21	RT		38.8							5.1
P-2-1	P-2-1	111+22.97	7.21	RT	TO	P-2-2	111+22.97	10.67	LT		15.1							2.0
P-2-2	P-2-2	111+22.97	10.67	LT	TO	P-2-3	111+74.95	8.92	LT		49.3							8.8
P-2-3	P-2-3	111+74.95	8.92	LT	TO	P-2-5	112+00.00	0.00		24.1								5.9
P-2-4	P-2-4	111+96.72	11.90	RT	TO	P-2-5	112+00.00	0.00		10.4								1.4
P-2-5	P-2-5	112+00.00	0.00		TO	P-2-8	112+61.42	0.00		57.6								17.8
P-2-7	P-2-7	112+61.42	6.00	RT	TO	P-2-8	112+61.42	0.00		3.5								0.5
P-2-8	P-2-8	112+61.42	0.00		TO	P-2-11	113+18.97	0.00		53.8								34.0
P-2-10	P-2-10	113+18.97	6.00	RT	TO	P-2-11	113+18.97	0.00		3.5								0.5
P-2-11	P-2-11	113+18.97	0.00		TO	OPENING IN BOX CULVERT						48.4						40.1
P-3-1	OPENING IN BOX CULVERT					TO	P-3-1	114+92.04	17.77	RT				97.4				54.1
P-3-3	P-3-2	116+69.22	18.68	RT	TO	P-3-3	117+50.00	15.47	LT					76.0				16.9
P-3-4	P-3-3	117+50.00	15.47	LT	TO	P-3-4	117+89.13	8.06	LT					31.9				6.8
P-3-5	P-3-4	117+89.13	8.06	LT	TO	P-3-5	118+38.51	8.09	LT					48.7				28.9
P-3-6	P-3-5	118+38.51	8.09	LT	TO	P-3-6	118+64.34	17.25	LT					22.2				6.1
P-3-7	P-3-6	118+64.34	17.25	LT	TO	P-3-7	119+54.07	15.72	RT					81.5				7.7
P-3-9	P-3-8	120+73.96	13.34	RT	TO	P-3-9	121+34.25	13.00	RT	48.0								3.9
P-3-11	P-3-10	121+78.66	12.89	RT	TO	P-3-11	122+81.15	7.47	LT					91.5				7.5
P-3-12	P-3-11	122+81.15	7.47	LT	TO	P-3-12	122+81.04	14.46	LT		4.4							0.0
P-3-14	P-3-13	123+93.57	6.53	LT	TO	P-3-14	124+19.51	19.87	LT					21.2				0.0
P-3-16	P-3-15	126+28.24	21.98	LT	TO	EXISTING STR. E-3-1								36.0				3.1
BERM TRAIL																		
P-4-1	P-4-1	1+70.00	16.15	RT	TO	P-4-2	1+70.00	14.99	LT							26.8		2.5
TOTAL:										48	423	320	314	470	409	16	32	356

MODEL: D:\efish\11-20-2020\20200713A4 CADD - DWG\K47 TrenchSchedules200713A-sh-Schedule.dgn
 FILE NAME: P:\2020\20200713A4 CADD - DWG\K47 TrenchSchedules200713A-sh-Schedule.dgn



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 PLOT SCALE = 2,000' / in.
 PLOT DATE = 1/14/2026

USER NAME = efisher
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

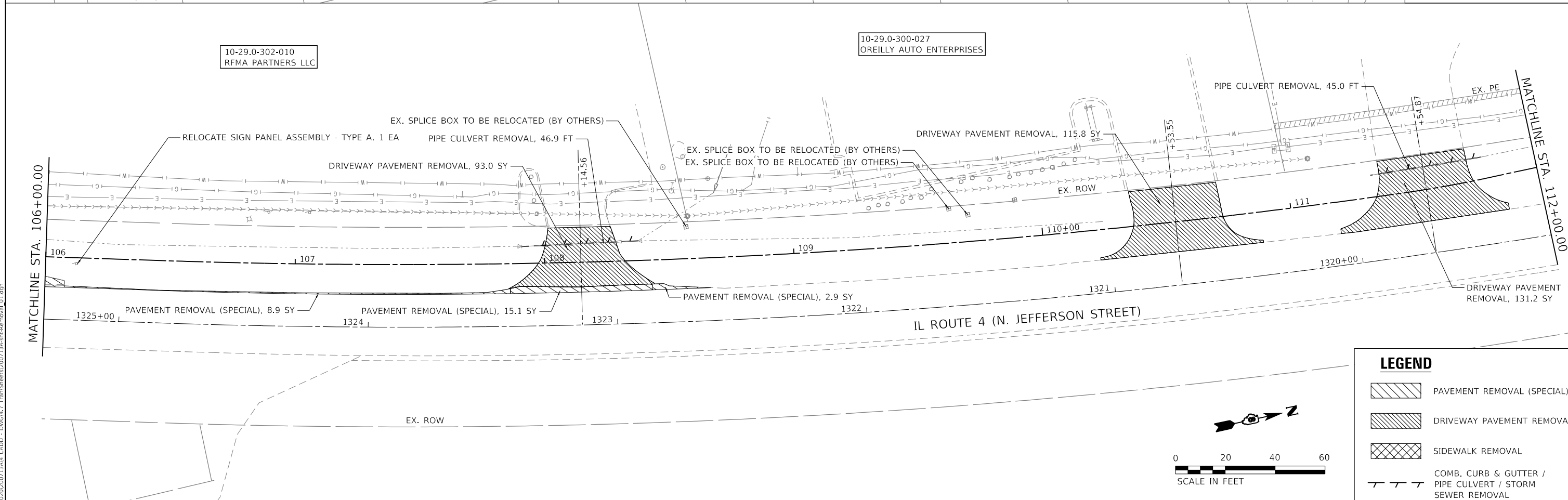
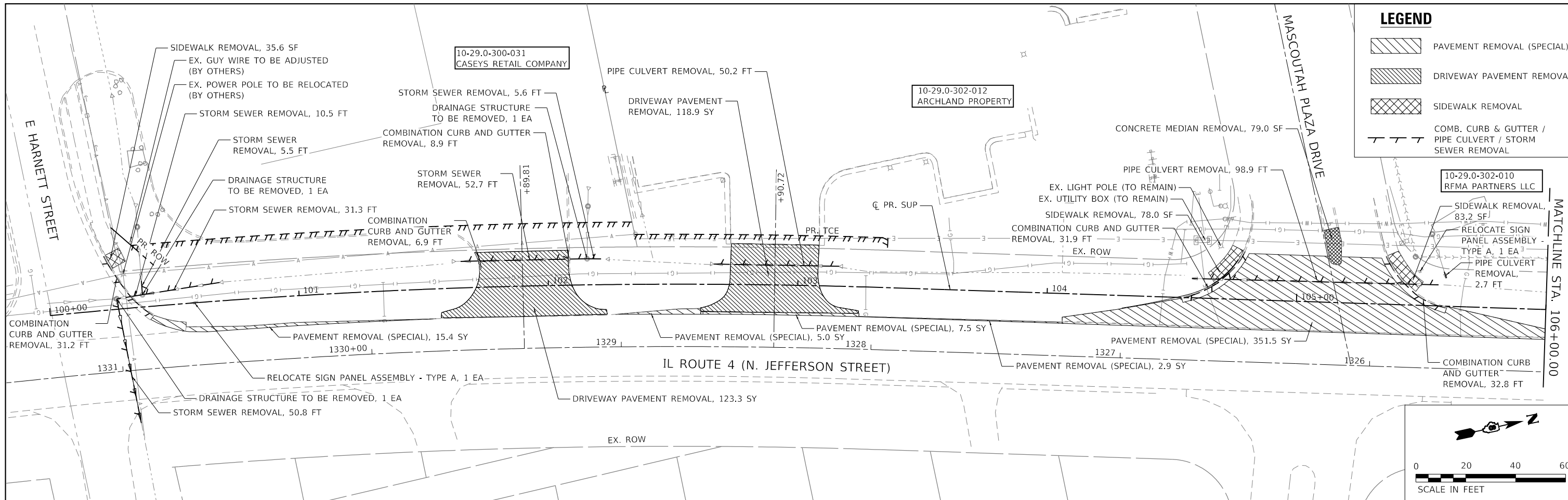


CITY OF MASCOUTAH

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	15
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	
* 21-00024-02-BT & 23-00024-03-BT				



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

REMOVAL PLAN SHEETS

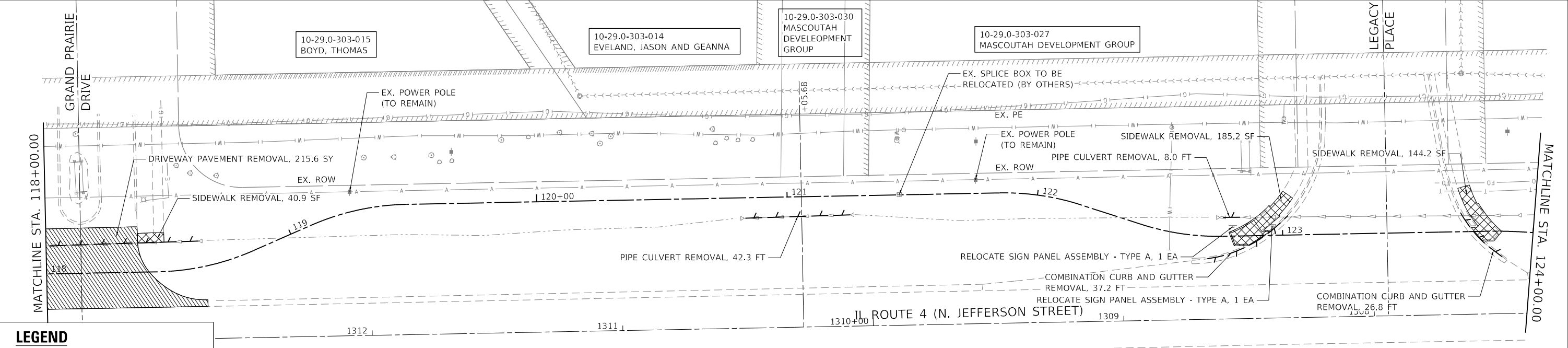
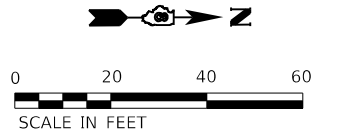
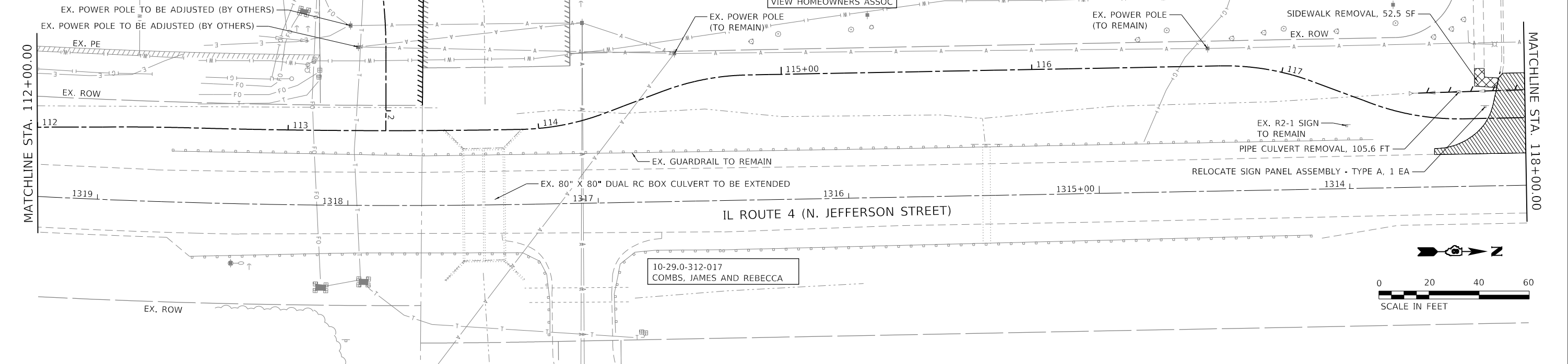
SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 100+00.00 TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	16
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT

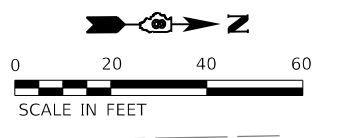
LEGEND

- PAVEMENT REMOVAL (SPECIAL)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMB. CURB & GUTTER / PIPE CULVERT / STORM SEWER REMOVAL



LEGEND

- PAVEMENT REMOVAL (SPECIAL)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMB. CURB & GUTTER / PIPE CULVERT / STORM SEWER REMOVAL



MODEL: Dwg.dwg
 FILE NAME: P:\2020\200713A4_CADD - DWG\47_TownSheets\200713A-sh-Removal_02.dwg
 DATE: 1/14/2026



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = efisher
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -



CITY OF MASCOUTAH





REMOVAL PLAN SHEETS

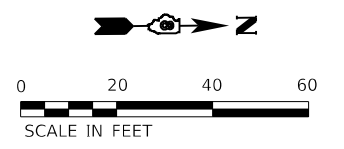
SCALE: 1"=20'
 SHEET 2 OF 3 SHEETS
 STA. 112+00.00 TO STA. 124+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	17
CONTRACT NO. 97878				





ILLINOIS FED. AID PROJECT
 * 21-00024-02-BT & 23-00024-03-BT

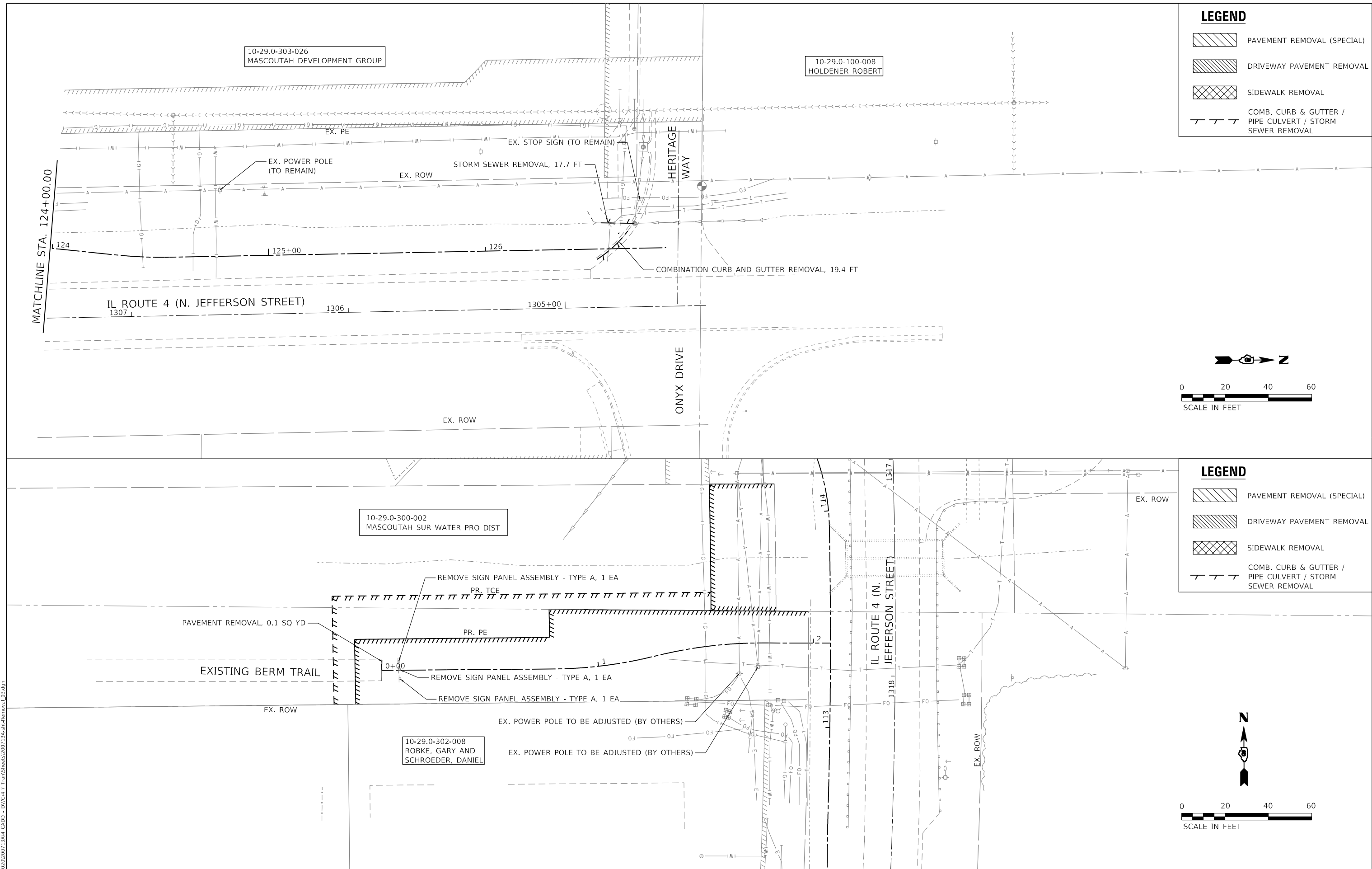
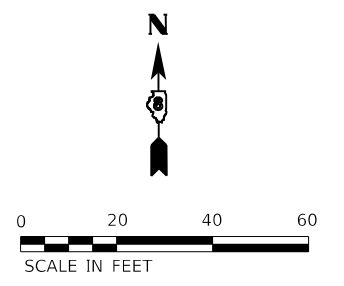
LEGEND

-  PAVEMENT REMOVAL (SPECIAL)
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  COMB. CURB & GUTTER / PIPE CULVERT / STORM SEWER REMOVAL



LEGEND

-  PAVEMENT REMOVAL (SPECIAL)
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  COMB. CURB & GUTTER / PIPE CULVERT / STORM SEWER REMOVAL



TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

REMOVAL PLAN SHEETS

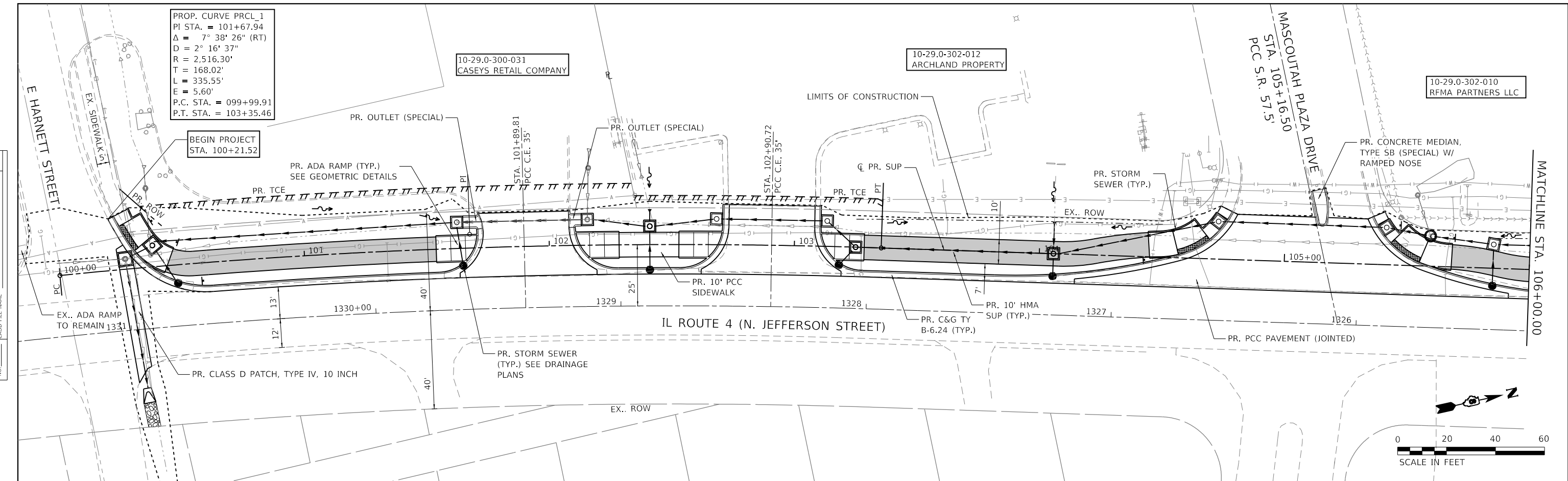
SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 100+00.00 TO STA. 200+00.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 18
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT				

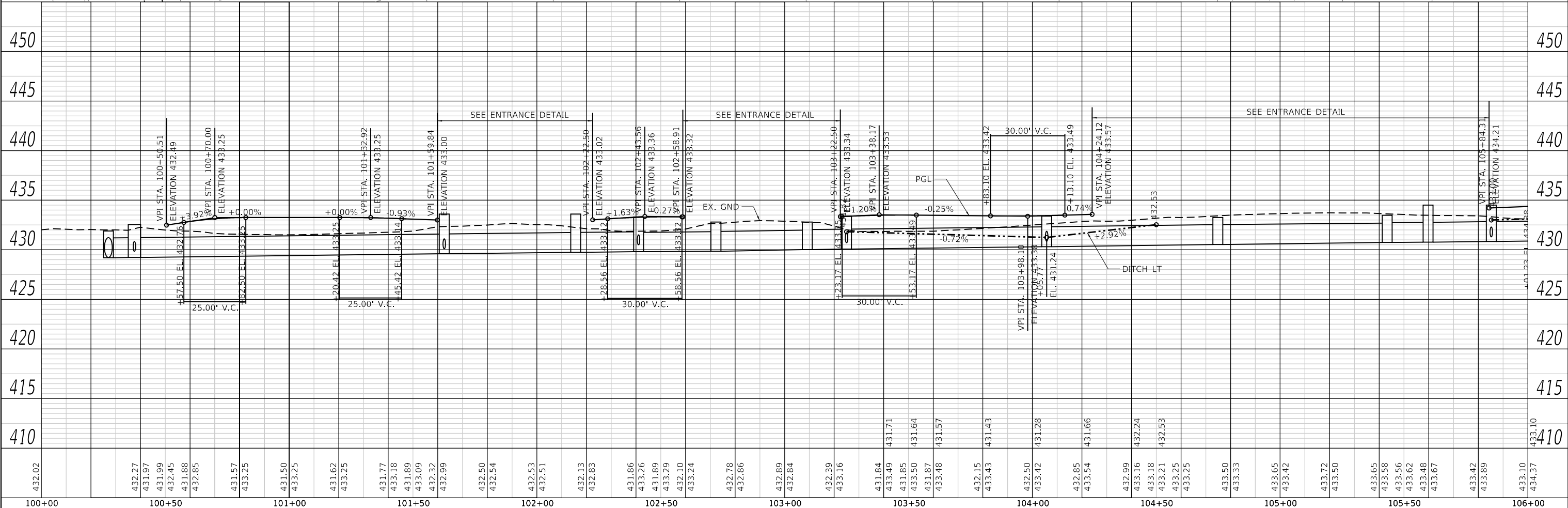
MODEL: D:\dgn\11... FILE NAME: P:\2020\200713A4_CADD - DWG\K47_TrimSheets\200713A4-sh-Removal_03.dgn

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS	
	NO.	



PROP. CURVE PRCL_1
 PI STA. = 101+67.94
 $\Delta = 7^\circ 38' 26''$ (RT)
 $D = 2^\circ 16' 37''$
 $R = 2,516.30'$
 $T = 168.02'$
 $L = 335.55'$
 $E = 5.60'$
 P.C. STA. = 099+99.91
 P.T. STA. = 103+35.46



MODEL: Defaul
 FILE NAME: P:\2020\20200713\4 CAD - DWG\4.7 Tran\Sheets\200713a-sh-rfp_01.dgn

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = efisher
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -



CITY OF MASCOUHAH

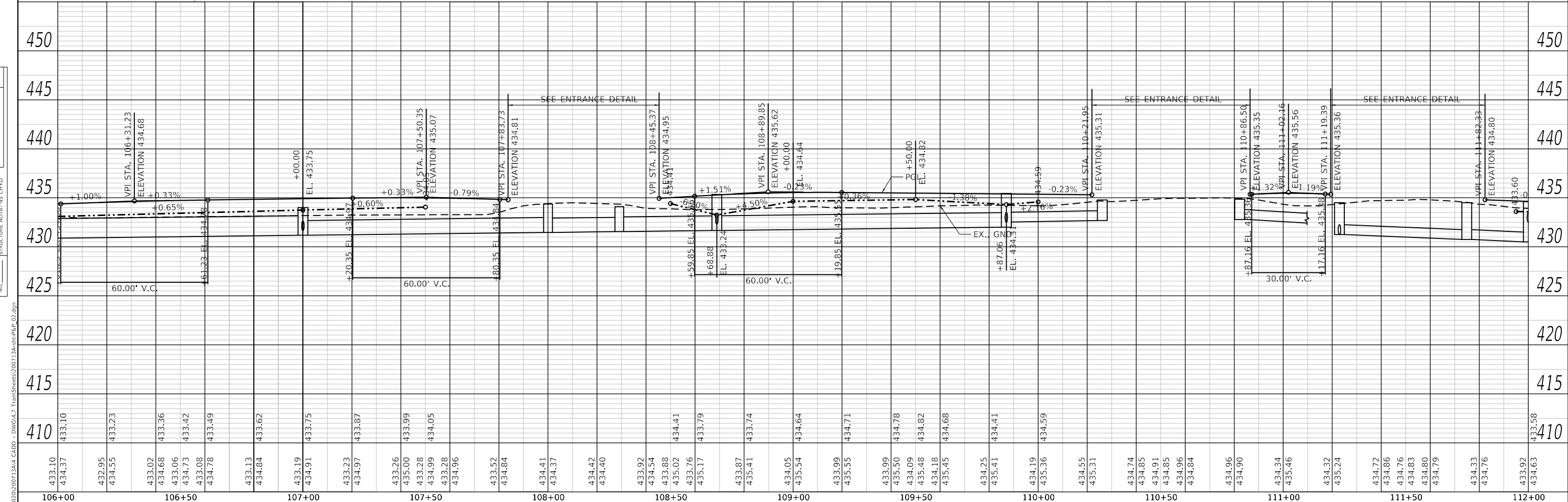
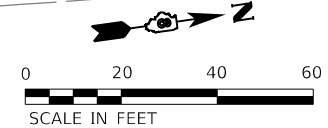
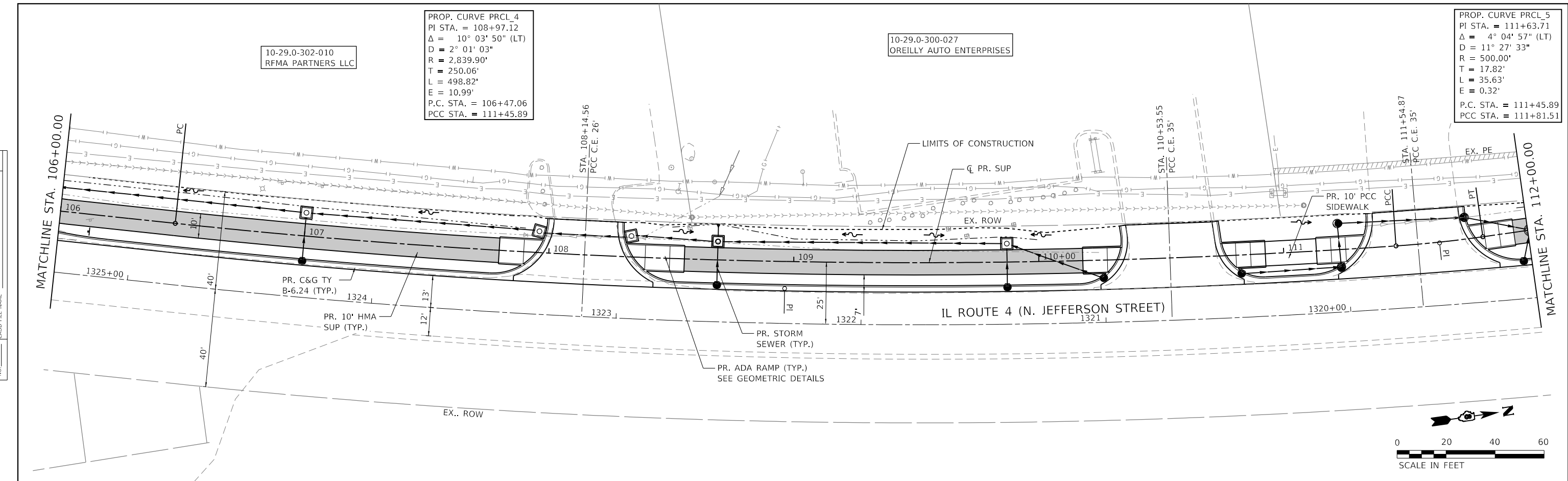
PLAN AND PROFILE
 SCALE: 1"=20'
 SHEET 1 OF 6 SHEETS
 STA. 100+00.00 TO STA. 106+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	19
CONTRACT NO. 97878				

* 21-00024-02-BT & 23-00024-03-BT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



433.10	434.37	432.95	434.55	433.02	434.68	433.06	434.73	433.08	434.78	433.13	434.84	433.19	434.91	433.23	434.97	433.26	435.00	433.28	434.99	433.28	434.96	433.52	434.84	434.41	434.37	434.42	434.40	433.92	434.54	433.88	435.02	433.76	435.17	433.87	435.41	434.05	435.54	433.99	435.55	434.71	433.99	435.50	434.09	435.48	434.18	435.45	434.25	435.41	434.19	435.36	434.55	435.31	434.74	434.85	434.91	434.85	434.96	434.84	434.96	434.90	434.34	435.46	434.32	435.24	434.72	434.86	434.76	434.83	434.80	434.79	434.33	434.76	433.92	434.63
106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00																																																														

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME	= efisher
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-



CITY OF MASCOU TAH

PLAN AND PROFILE

SCALE: 1"=20'

SHEET 2 OF 6 SHEETS

STA. 106+00.00 TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	20
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

PROP. CURVE PRCL_8
 PI STA. = 112+46.80
 $\Delta = 1^\circ 45' 04''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 15.28'$
 $L = 30.56'$
 $E = 0.12'$
 P.C. STA. = 112+31.51
 PRC STA. = 112+62.08

PROP. CURVE PRCL_9
 PI STA. = 113+27.47
 $\Delta = 2^\circ 42' 16''$ (LT)
 $D = 2^\circ 04' 06''$
 $R = 2,770.00'$
 $T = 65.39'$
 $L = 130.75'$
 $E = 0.77'$
 PRC STA. = 112+62.08
 PCC STA. = 113+92.83

10-29.0-300-002
 MASCOUHAH SUR WATER PRO DIST

10-29.0-315-018
 PRAIRIE VIEW
 HOMEOWNERS ASSOC

PROP. CURVE PRCL_13
 PI STA. = 114+69.36
 $\Delta = 19^\circ 36' 57''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 17.29'$
 $L = 34.24'$
 $E = 1.48'$
 P.C. STA. = 114+52.07
 P.T. STA. = 114+86.30

10-29.0-315-016
 HAHN, PATRICK AND JENNIFER

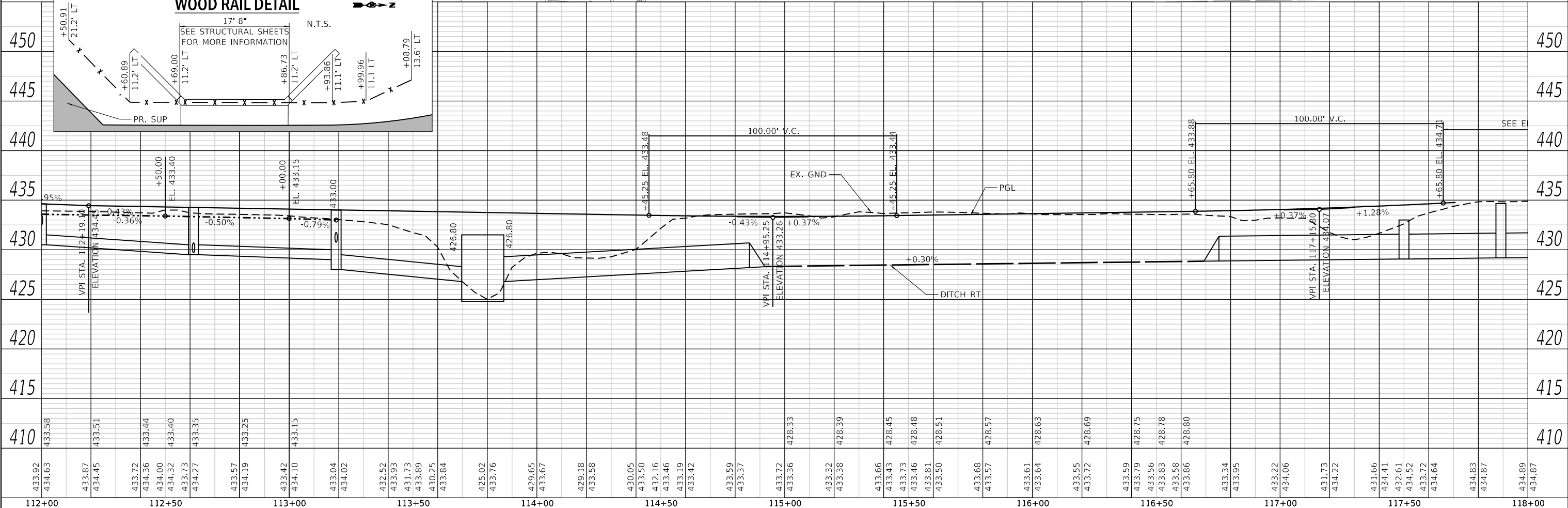
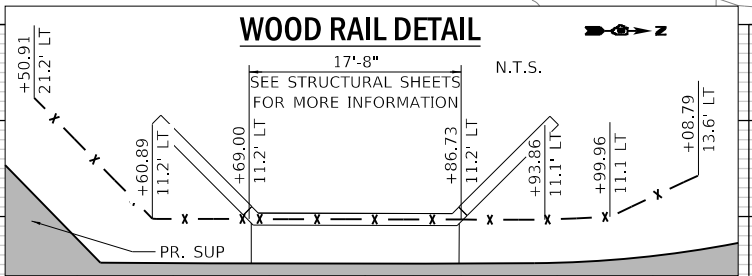
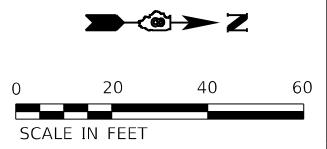
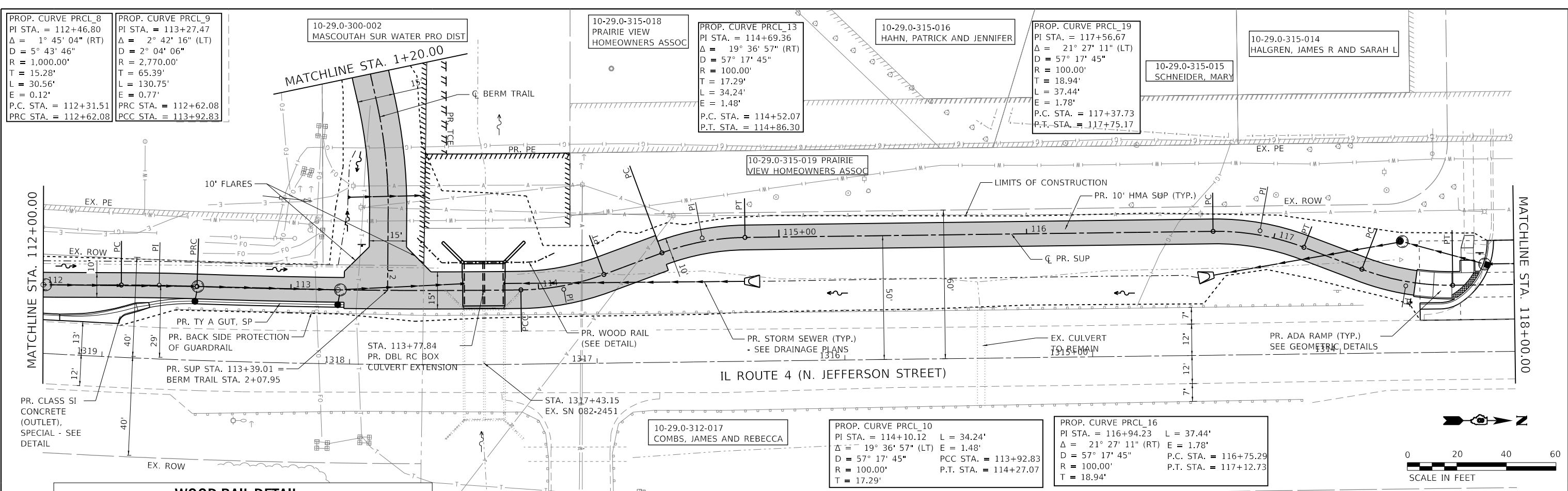
PROP. CURVE PRCL_19
 PI STA. = 117+56.67
 $\Delta = 21^\circ 27' 11''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 18.94'$
 $L = 37.44'$
 $E = 1.78'$
 P.C. STA. = 117+37.73
 P.T. STA. = 117+75.17

10-29.0-315-014
 HALGREN, JAMES R AND SARAH L

10-29.0-315-015
 SCHNEIDER, MARY

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



433.92	434.63	433.87	434.45	433.72	434.36	434.00	434.32	433.73	434.27	433.57	434.19	433.42	434.10	433.04	434.02	432.52	433.93	431.73	433.89	430.25	433.84	425.02	433.76	429.65	433.67	429.18	433.58	430.05	433.50	432.16	433.46	433.19	433.42	433.59	433.37	433.72	433.36	433.32	433.38	433.66	433.43	433.73	433.46	433.81	433.50	433.68	433.57	433.61	433.64	433.55	433.72	433.59	433.79	433.56	433.83	433.58	433.86	433.34	433.95	433.22	434.06	431.73	434.22	431.66	434.41	432.61	434.52	433.72	434.64	434.83	434.87	434.89	434.87
112+00		112+50		113+00		113+50		114+00		114+50		115+00		115+50		116+00		116+50		117+00		117+50		118+00																																																	

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher
 PLOT SCALE = 40,0000' / in.
 PLOT DATE = 1/14/2026

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -



CITY OF MASCOUHAH

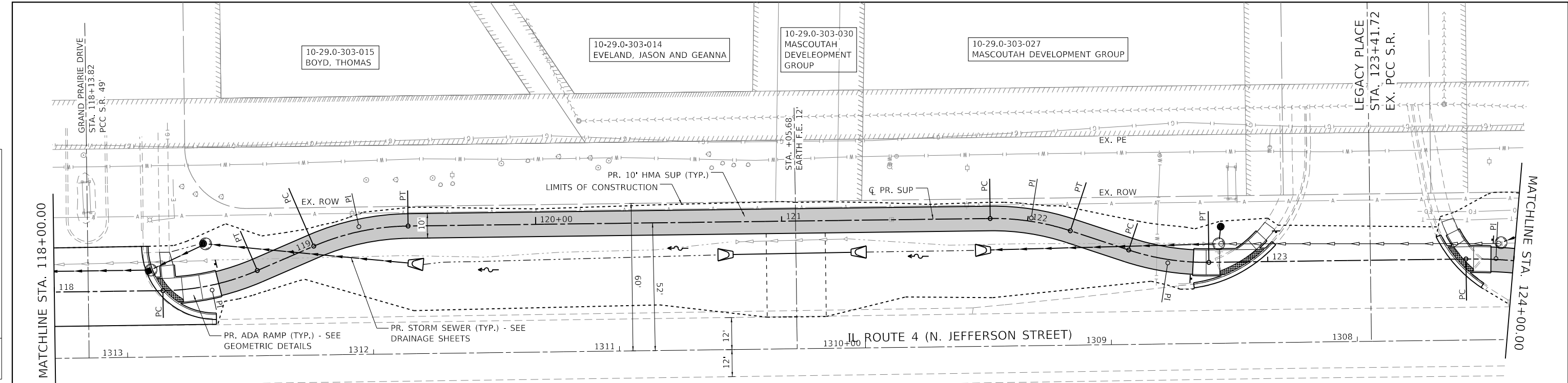
PLAN AND PROFILE

SCALE: 1"=20'
 SHEET 3 OF 6 SHEETS
 STA. 112+00.00 TO STA. 118+00.00

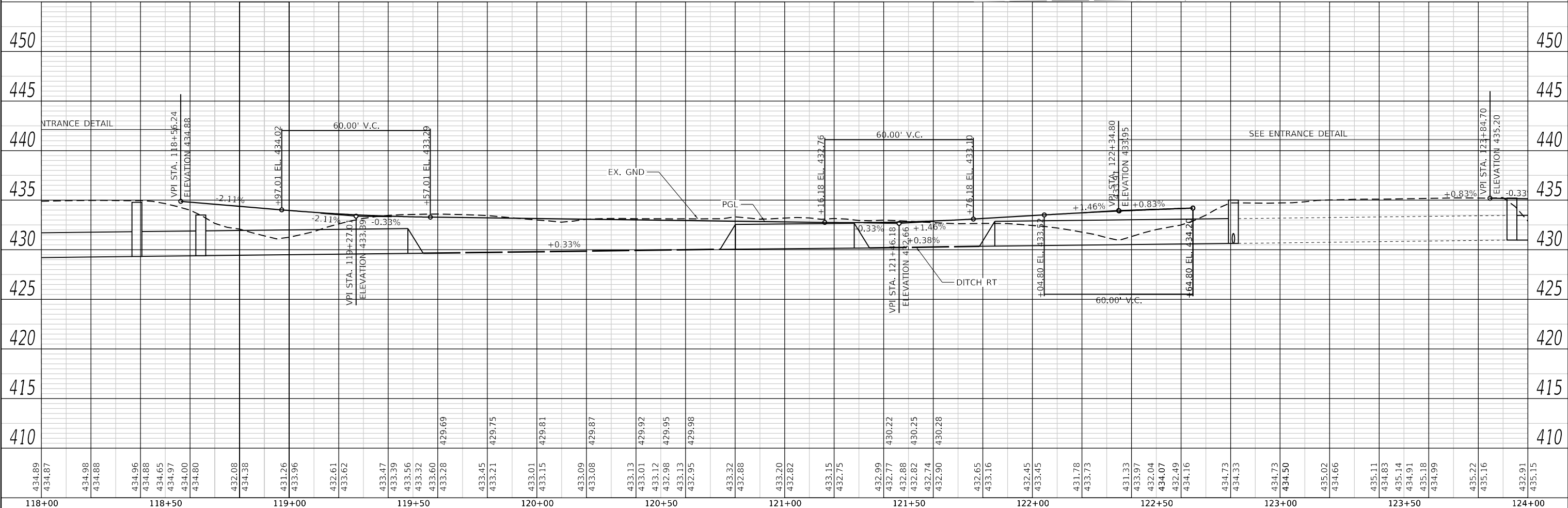
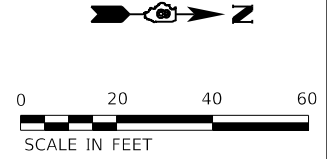
F.A.P. RTE. 0678	SECTION *	COUNTY	TOTAL SHEETS 65	SHEET NO. 21
		ST. CLAIR	CONTRACT NO. 97878	
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



PROP. CURVE PRCL_22 PI STA. = 118+64.18 $\Delta = 22^\circ 37' 12''$ (LT) L = 39.48' D = 57° 17' 45" E = 1.98' R = 100.00' P.C. STA. = 118+44.18 T = 20.00' P.T. STA. = 118+83.66	PROP. CURVE PRCL_25 PI STA. = 119+28.66 $\Delta = 22^\circ 37' 12''$ (RT) L = 39.48' D = 57° 17' 45" E = 1.98' R = 100.00' P.C. STA. = 119+08.66 T = 20.00' P.T. STA. = 119+48.14	PROP. CURVE PRCL_28 PI STA. = 122+01.52 $\Delta = 18^\circ 58' 37''$ (RT) L = 33.12' D = 57° 17' 45" E = 1.39' R = 100.00' P.C. STA. = 121+84.81 T = 16.71' P.T. STA. = 122+17.93	PROP. CURVE PRCL_31 PI STA. = 122+59.64 $\Delta = 18^\circ 58' 37''$ (LT) L = 33.12' D = 57° 17' 45" E = 1.39' R = 100.00' P.C. STA. = 122+42.93 T = 16.71' P.T. STA. = 122+76.05	PROP. CURVE PRCL_34 PI STA. = 123+92.78 $\Delta = 6^\circ 58' 41''$ (RT) L = 24.36' D = 28° 38' 52" E = 0.37' R = 200.00' P.C. STA. = 123+80.59 T = 12.19' P.T. STA. = 124+04.95
---	---	---	---	--



434.89	434.87	434.98	434.88	434.96	434.88	434.65	434.97	434.00	434.80	432.08	434.38	431.26	433.96	432.61	433.62	433.47	433.39	433.56	433.32	433.60	433.28	429.69	433.45	433.21	429.75	433.01	433.15	429.81	433.09	433.08	429.87	433.13	433.01	429.92	433.12	432.98	429.95	433.13	432.95	429.98	433.32	432.88	433.20	432.82	433.15	432.75	432.99	432.77	432.88	432.82	432.74	432.90	430.22	430.25	430.28	432.65	433.16	432.45	433.45	431.78	433.73	431.33	433.97	432.04	434.07	432.49	434.16	434.73	434.33	434.73	434.50	435.02	434.66	435.11	434.83	435.14	434.91	435.18	434.99	435.22	435.16	432.91	435.15
118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00																																																																							

MODEL: DefRail
 FILE NAME: P:\2020\20071344_CADD - DWG\4.7 TransSheets\2007134-sh-rfp_04.dgn

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 "/>		

CITY OF MASCOU TAH

DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

PLAN AND PROFILE

SCALE: 1"=20'

SHEET 4 OF 6 SHEETS

STA. 118+00.00 TO STA. 124+00.00

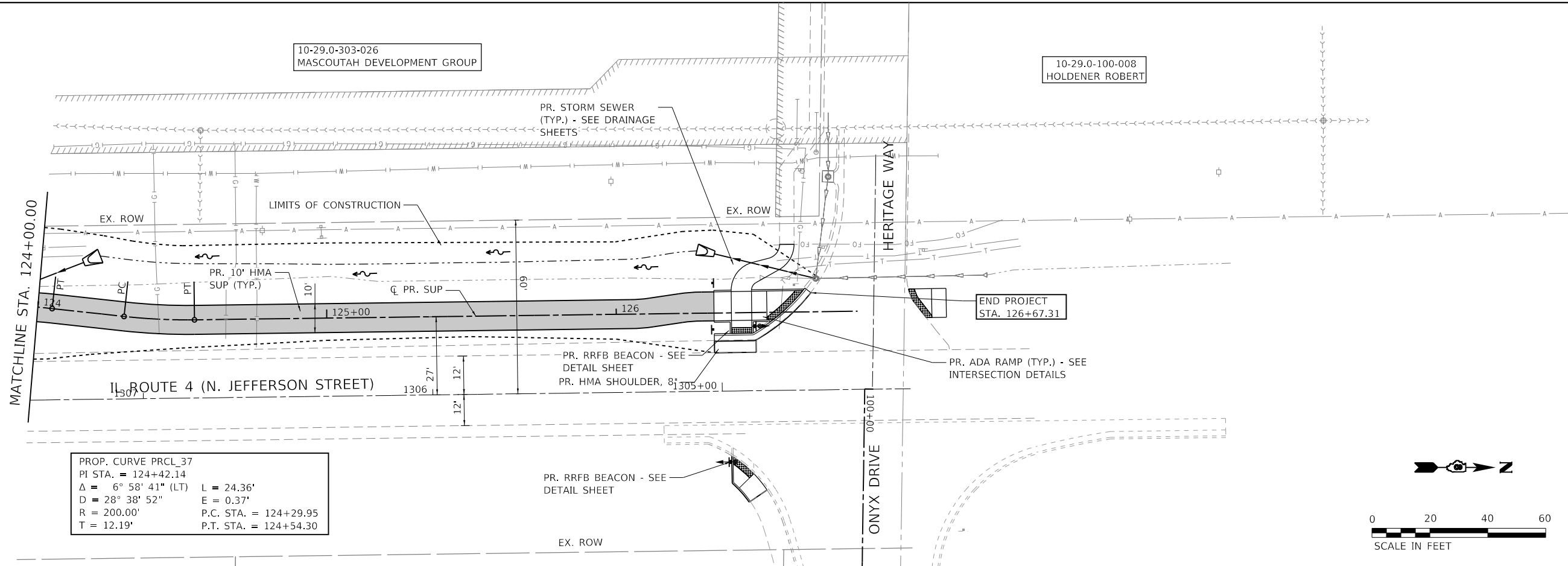
F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 22
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	

* 21-00024-02-BT & 23-00024-03-BT

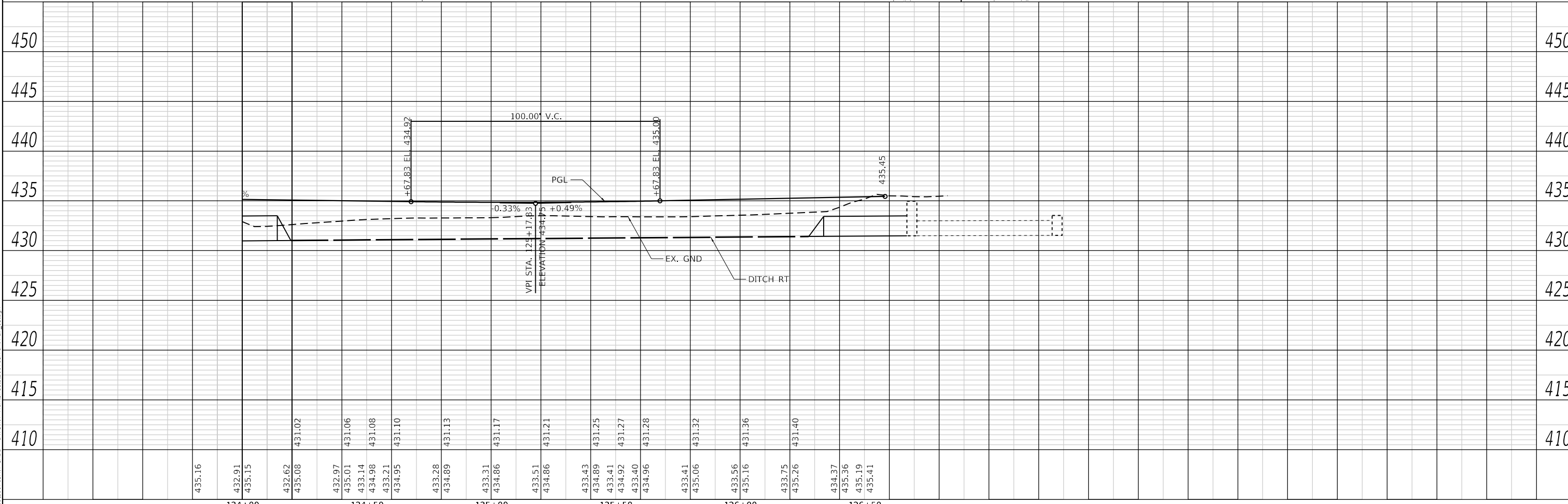
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK NO.	
	STRUCTURE NOTATIONS CHECKED	

MODEL: Default
FILE NAME: P:\2020\20200713\4 CAD - DWG\4.7 Tran\Sheets\200713a-sh-rfp_05.dgn



PROP. CURVE PRCL_37
 PI STA. = 124+42.14
 $\Delta = 6^\circ 58' 41''$ (LT) L = 24.36'
 D = 28° 38' 52" E = 0.37'
 R = 200.00' P.C. STA. = 124+29.95
 T = 12.19' P.T. STA. = 124+54.30



435.16	432.91	435.15	432.62	435.08	431.02	432.97	435.01	431.06	433.14	434.98	433.21	434.95	431.10	433.28	434.89	431.13	433.31	434.86	431.17	433.51	434.86	431.21	433.43	434.89	431.25	433.41	434.92	431.27	433.40	434.96	431.28	433.41	435.06	431.32	433.56	435.16	431.36	433.75	435.26	431.40	434.37	435.36	435.19	435.41																
124+00	124+05	124+10	124+15	124+20	124+25	124+30	124+35	124+40	124+45	124+50	124+55	124+60	124+65	124+70	124+75	124+80	124+85	124+90	124+95	125+00	125+05	125+10	125+15	125+20	125+25	125+30	125+35	125+40	125+45	125+50	125+55	125+60	125+65	125+70	125+75	125+80	125+85	125+90	125+95	126+00	126+05	126+10	126+15	126+20	126+25	126+30	126+35	126+40	126+45	126+50	126+55	126+60	126+65	126+70	126+75	126+80	126+85	126+90	126+95	127+00

TWM ENGINEERING GEOSPATIAL SERVICES
 TWM, INC. www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME	= efisher
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 40.0000" / 1"
PLOT DATE	= 1/14/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



CITY OF MASCOUTAH

PLAN AND PROFILE
 SCALE: 1"=20' SHEET 5 OF 6 SHEETS STA. 124+00.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	23
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT

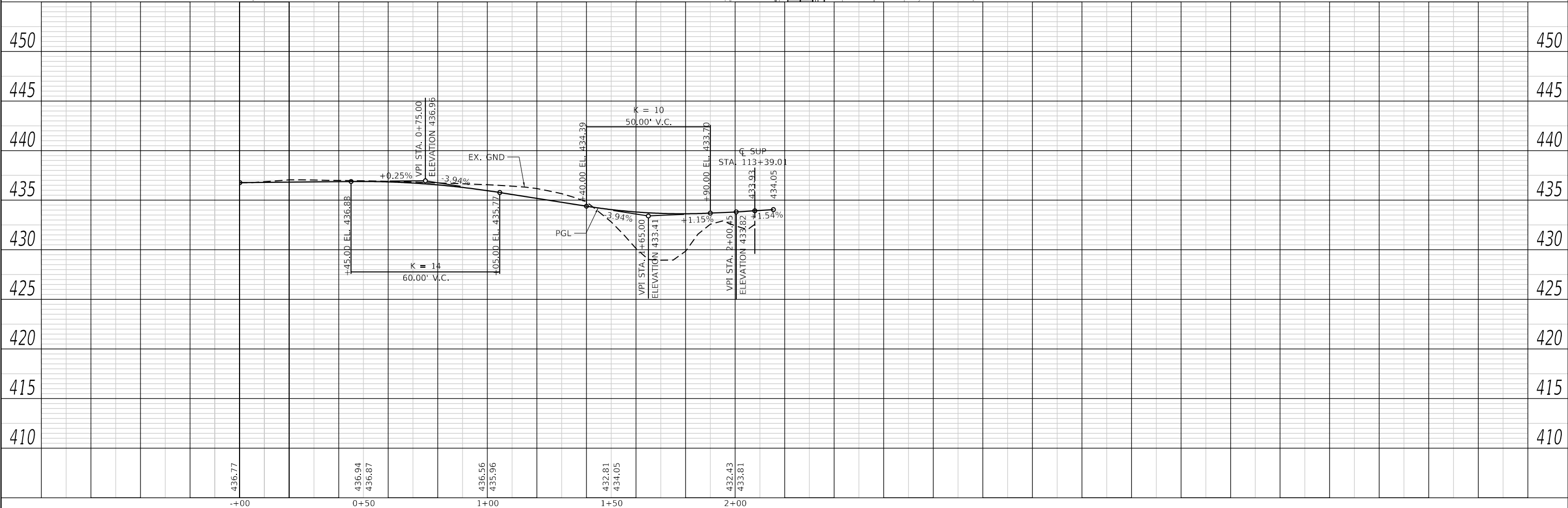
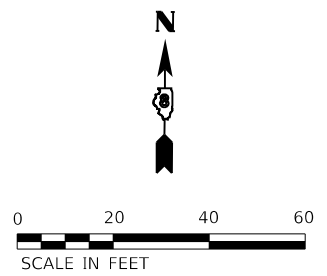
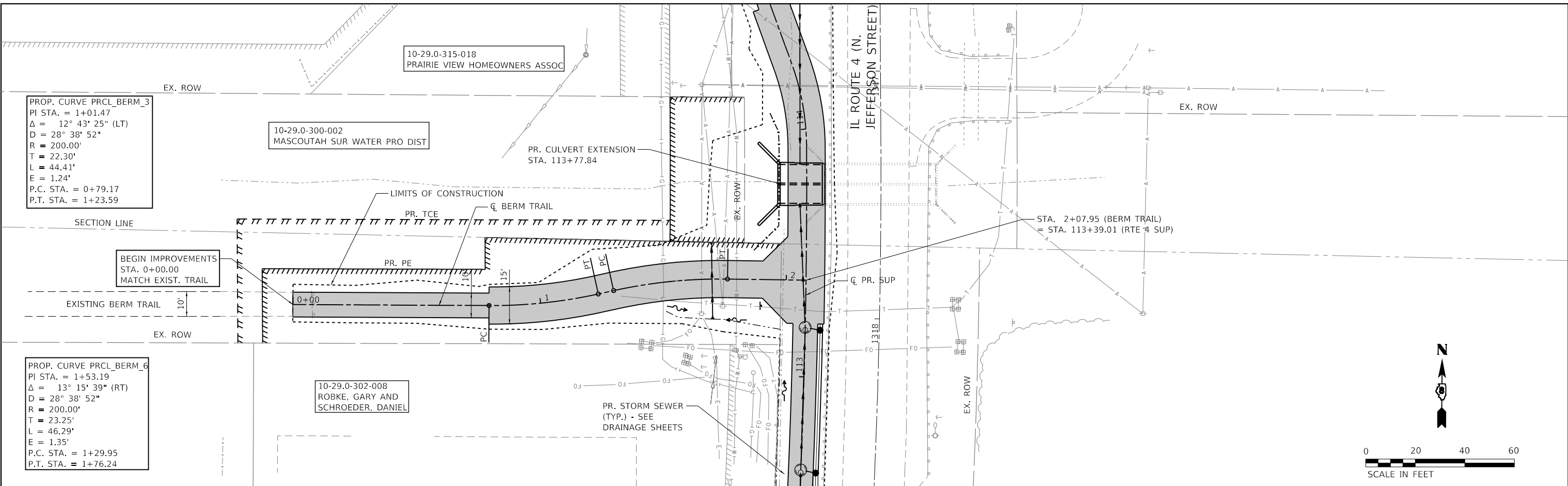
DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

MODEL: Default
FILE NAME: P:\2020\2020\1344 CAD - DWG\4.7 Tran\Sheets\20071344-sh-REP-06.dgn

PROP. CURVE PRCL_BERM_3
PI STA. = 1+01.47
 $\Delta = 12^\circ 43' 25''$ (LT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 22.30'$
 $L = 44.41'$
 $E = 1.24'$
P.C. STA. = 0+79.17
P.T. STA. = 1+23.59

PROP. CURVE PRCL_BERM_6
PI STA. = 1+53.19
 $\Delta = 13^\circ 15' 39''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 23.25'$
 $L = 46.29'$
 $E = 1.35'$
P.C. STA. = 1+29.95
P.T. STA. = 1+76.24



436.77	436.94	436.87	436.56	435.96	432.81	434.05	432.43	433.81
--------	--------	--------	--------	--------	--------	--------	--------	--------

USER NAME	= elfisher
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 40.0000" / 1"
PLOT DATE	= 1/14/2026
REVISD	-
REVISD	-
REVISD	-
REVISD	-



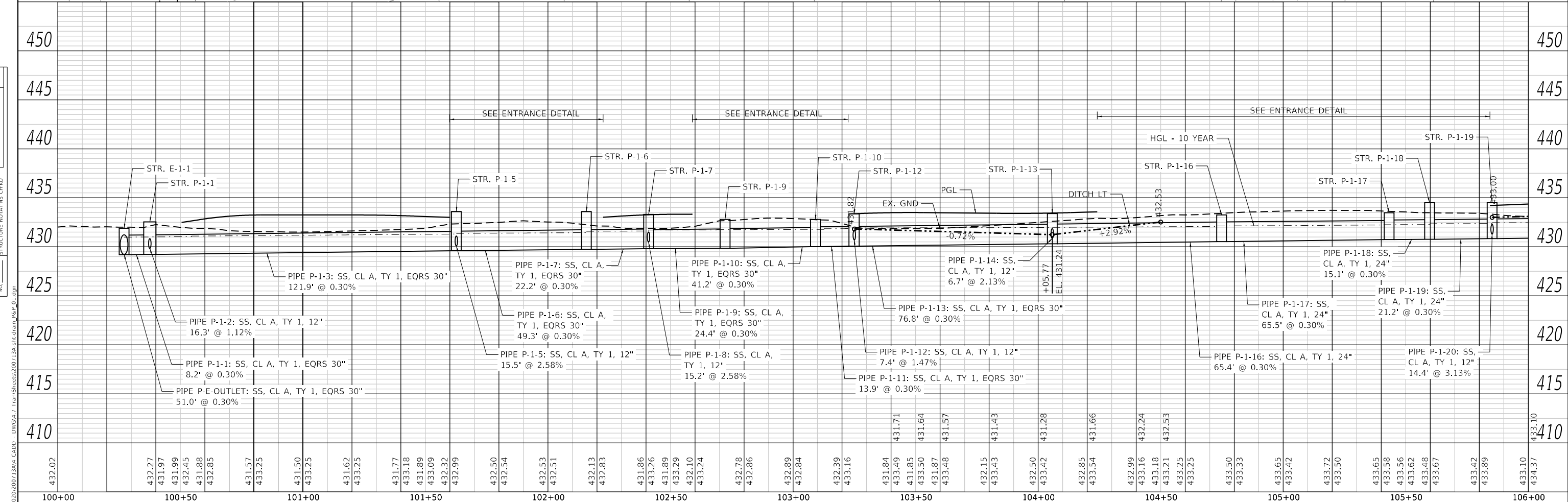
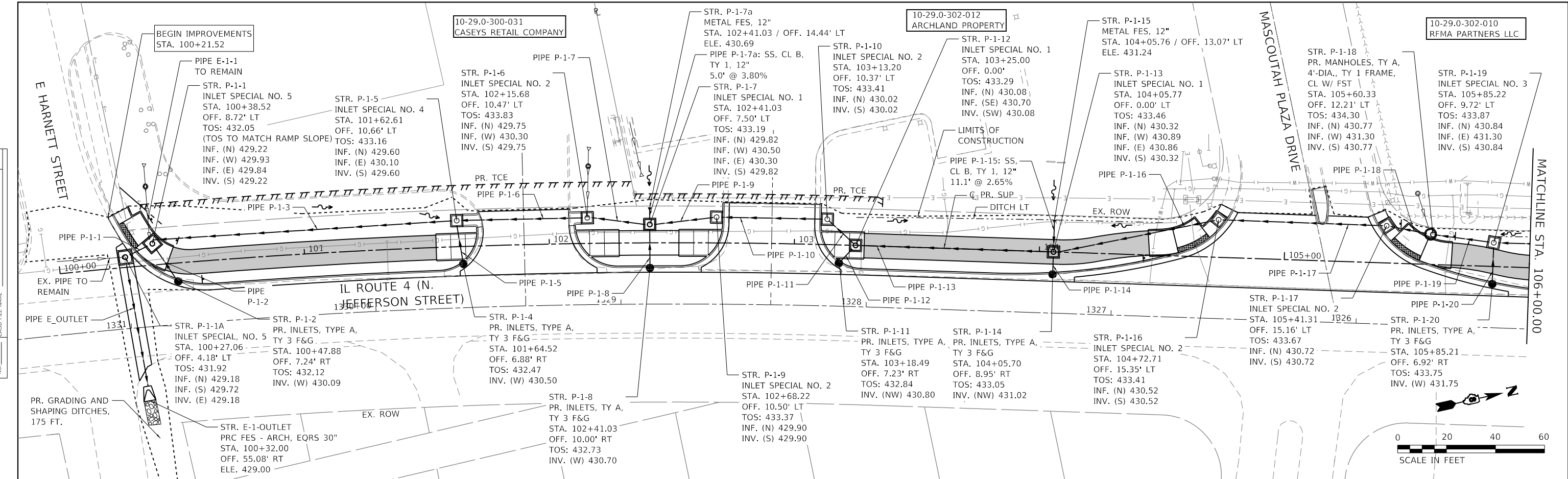
CITY OF MASCOU TAH

PLAN AND PROFILE			
SCALE: 1"=20'	SHEET 6	OF 6	SHEETS
STA. 0+00.00	TO STA. 2+07.95		

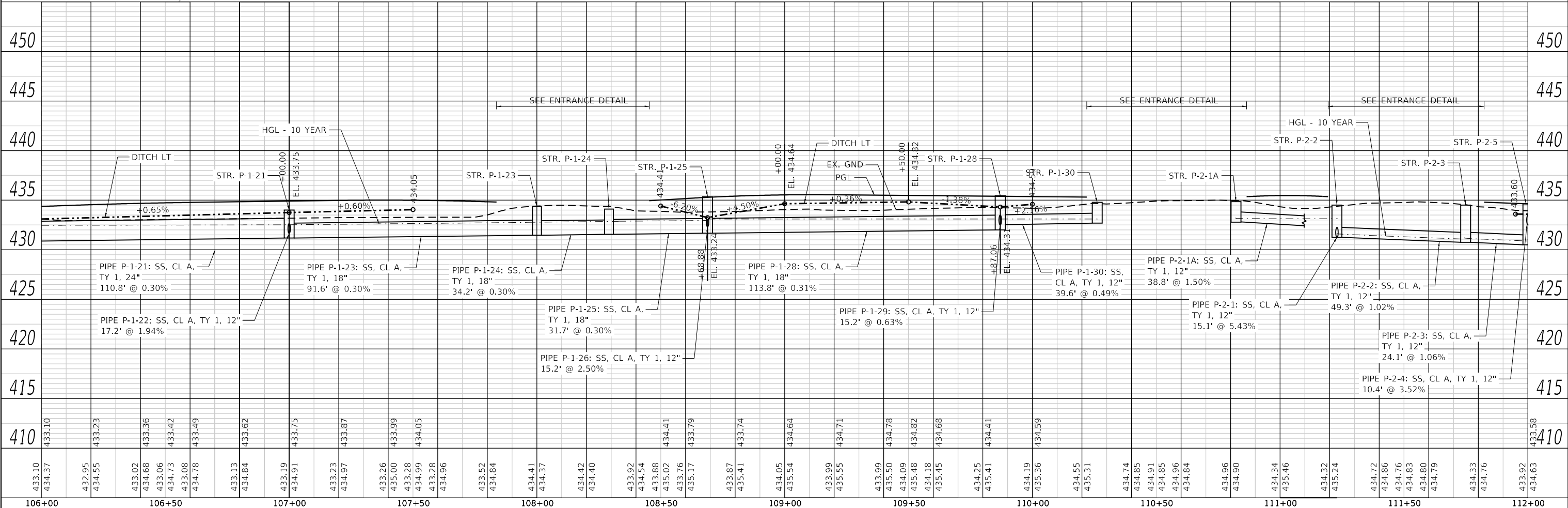
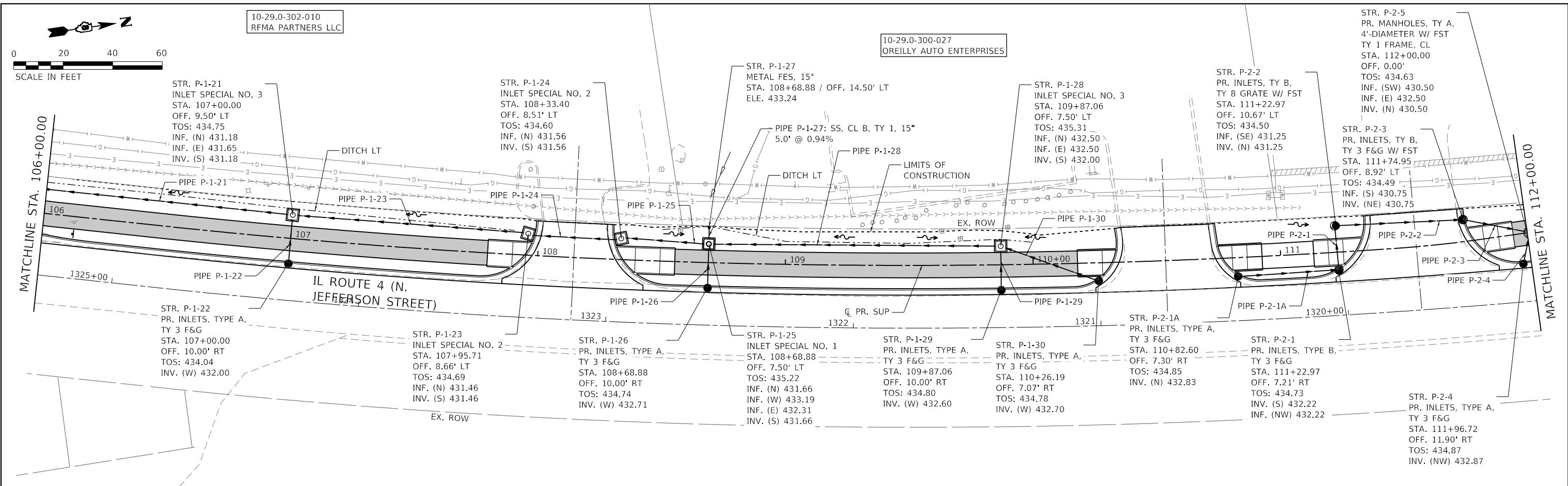
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	24
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADE CHECKED	
STRUCTURE NOTATION	
NOTE BOOK NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATION	
NOTE BOOK NO.	
CADD FILE NAME	



<p>TWM ENGINEERING GEOSPATIAL SERVICES</p>	<p>TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220</p>	USER NAME = efisher	DESIGNED -	REVISED -	<p>CITY OF MASCOUHA</p>	DRAINAGE PLAN AND PROFILE		F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 25
		PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -		SCALE: 1"=20'	SHEET 1 OF 5 SHEETS	STA. 100+00.00 TO STA. 106+00.00	CONTRACT NO. 97878		ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/14/2026		DATE -	REVISED -					* 21-00024-02-BT & 23-00024-03-BT				



410	415	420	425	430	435	440	445	450
433.10	433.10	433.10	433.10	433.10	433.10	433.10	433.10	433.10
434.37	434.37	434.37	434.37	434.37	434.37	434.37	434.37	434.37
432.95	432.95	432.95	432.95	432.95	432.95	432.95	432.95	432.95
434.55	434.55	434.55	434.55	434.55	434.55	434.55	434.55	434.55
433.02	433.02	433.02	433.02	433.02	433.02	433.02	433.02	433.02
434.68	434.68	434.68	434.68	434.68	434.68	434.68	434.68	434.68
433.06	433.06	433.06	433.06	433.06	433.06	433.06	433.06	433.06
434.73	434.73	434.73	434.73	434.73	434.73	434.73	434.73	434.73
433.08	433.08	433.08	433.08	433.08	433.08	433.08	433.08	433.08
434.78	434.78	434.78	434.78	434.78	434.78	434.78	434.78	434.78
433.13	433.13	433.13	433.13	433.13	433.13	433.13	433.13	433.13
434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84
433.19	433.19	433.19	433.19	433.19	433.19	433.19	433.19	433.19
434.91	434.91	434.91	434.91	434.91	434.91	434.91	434.91	434.91
433.23	433.23	433.23	433.23	433.23	433.23	433.23	433.23	433.23
434.97	434.97	434.97	434.97	434.97	434.97	434.97	434.97	434.97
433.26	433.26	433.26	433.26	433.26	433.26	433.26	433.26	433.26
435.00	435.00	435.00	435.00	435.00	435.00	435.00	435.00	435.00
433.28	433.28	433.28	433.28	433.28	433.28	433.28	433.28	433.28
434.99	434.99	434.99	434.99	434.99	434.99	434.99	434.99	434.99
433.28	433.28	433.28	433.28	433.28	433.28	433.28	433.28	433.28
434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96
433.52	433.52	433.52	433.52	433.52	433.52	433.52	433.52	433.52
434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84
434.41	434.41	434.41	434.41	434.41	434.41	434.41	434.41	434.41
434.37	434.37	434.37	434.37	434.37	434.37	434.37	434.37	434.37
434.42	434.42	434.42	434.42	434.42	434.42	434.42	434.42	434.42
434.40	434.40	434.40	434.40	434.40	434.40	434.40	434.40	434.40
433.92	433.92	433.92	433.92	433.92	433.92	433.92	433.92	433.92
434.54	434.54	434.54	434.54	434.54	434.54	434.54	434.54	434.54
433.88	433.88	433.88	433.88	433.88	433.88	433.88	433.88	433.88
435.02	435.02	435.02	435.02	435.02	435.02	435.02	435.02	435.02
433.76	433.76	433.76	433.76	433.76	433.76	433.76	433.76	433.76
435.17	435.17	435.17	435.17	435.17	435.17	435.17	435.17	435.17
433.87	433.87	433.87	433.87	433.87	433.87	433.87	433.87	433.87
435.41	435.41	435.41	435.41	435.41	435.41	435.41	435.41	435.41
434.05	434.05	434.05	434.05	434.05	434.05	434.05	434.05	434.05
435.54	435.54	435.54	435.54	435.54	435.54	435.54	435.54	435.54
433.99	433.99	433.99	433.99	433.99	433.99	433.99	433.99	433.99
435.55	435.55	435.55	435.55	435.55	435.55	435.55	435.55	435.55
433.99	433.99	433.99	433.99	433.99	433.99	433.99	433.99	433.99
435.50	435.50	435.50	435.50	435.50	435.50	435.50	435.50	435.50
434.09	434.09	434.09	434.09	434.09	434.09	434.09	434.09	434.09
435.48	435.48	435.48	435.48	435.48	435.48	435.48	435.48	435.48
434.18	434.18	434.18	434.18	434.18	434.18	434.18	434.18	434.18
435.45	435.45	435.45	435.45	435.45	435.45	435.45	435.45	435.45
434.25	434.25	434.25	434.25	434.25	434.25	434.25	434.25	434.25
435.41	435.41	435.41	435.41	435.41	435.41	435.41	435.41	435.41
434.19	434.19	434.19	434.19	434.19	434.19	434.19	434.19	434.19
435.36	435.36	435.36	435.36	435.36	435.36	435.36	435.36	435.36
434.55	434.55	434.55	434.55	434.55	434.55	434.55	434.55	434.55
435.31	435.31	435.31	435.31	435.31	435.31	435.31	435.31	435.31
434.74	434.74	434.74	434.74	434.74	434.74	434.74	434.74	434.74
434.85	434.85	434.85	434.85	434.85	434.85	434.85	434.85	434.85
434.91	434.91	434.91	434.91	434.91	434.91	434.91	434.91	434.91
434.85	434.85	434.85	434.85	434.85	434.85	434.85	434.85	434.85
434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96
434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84	434.84
434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96	434.96
434.90	434.90	434.90	434.90	434.90	434.90	434.90	434.90	434.90
434.34	434.34	434.34	434.34	434.34	434.34	434.34	434.34	434.34
435.46	435.46	435.46	435.46	435.46	435.46	435.46	435.46	435.46
434.32	434.32	434.32	434.32	434.32	434.32	434.32	434.32	434.32
435.24	435.24	435.24	435.24	435.24	435.24	435.24	435.24	435.24
434.72	434.72	434.72	434.72	434.72	434.72	434.72	434.72	434.72
434.86	434.86	434.86	434.86	434.86	434.86	434.86	434.86	434.86
434.76	434.76	434.76	434.76	434.76	434.76	434.76	434.76	434.76
434.83	434.83	434.83	434.83	434.83	434.83	434.83	434.83	434.83
434.80	434.80	434.80	434.80	434.80	434.80	434.80	434.80	434.80
434.79	434.79	434.79	434.79	434.79	434.79	434.79	434.79	434.79
434.33	434.33	434.33	434.33	434.33	434.33	434.33	434.33	434.33
434.76	434.76	434.76	434.76	434.76	434.76	434.76	434.76	434.76
433.92	433.92	433.92	433.92	433.92	433.92	433.92	433.92	433.92
434.63	434.63	434.63	434.63	434.63	434.63	434.63	434.63	434.63

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME	= efisher
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 1/14/2026

REVISIED	-
REVISIED	-
REVISIED	-
REVISIED	-



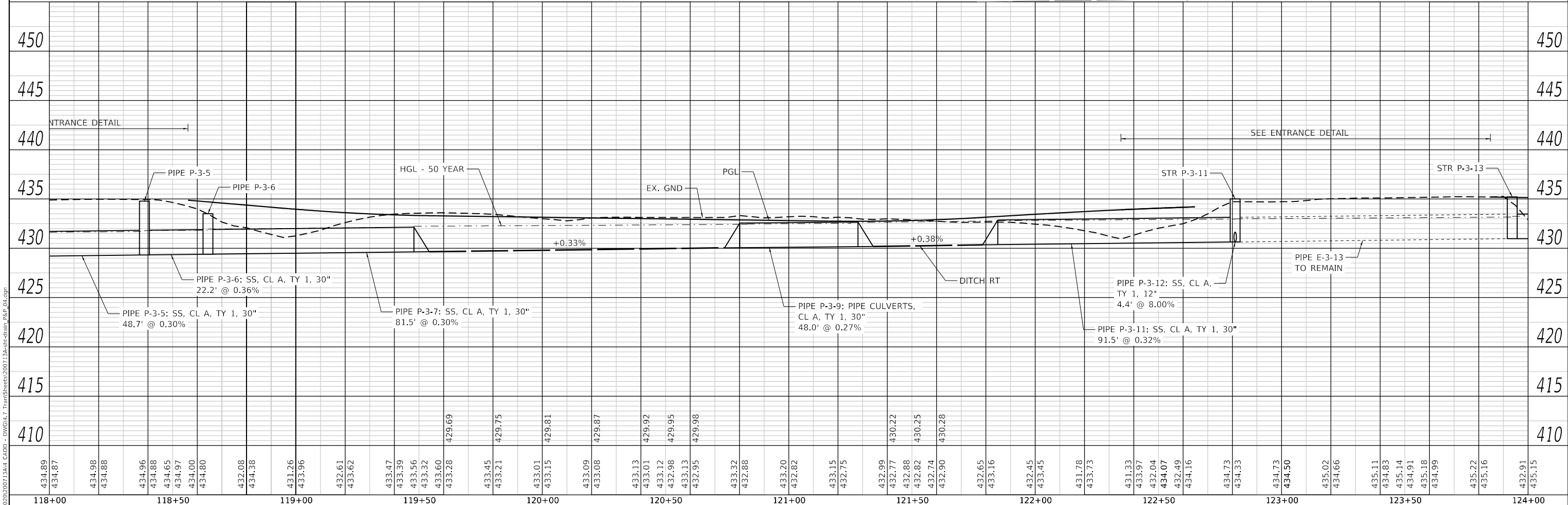
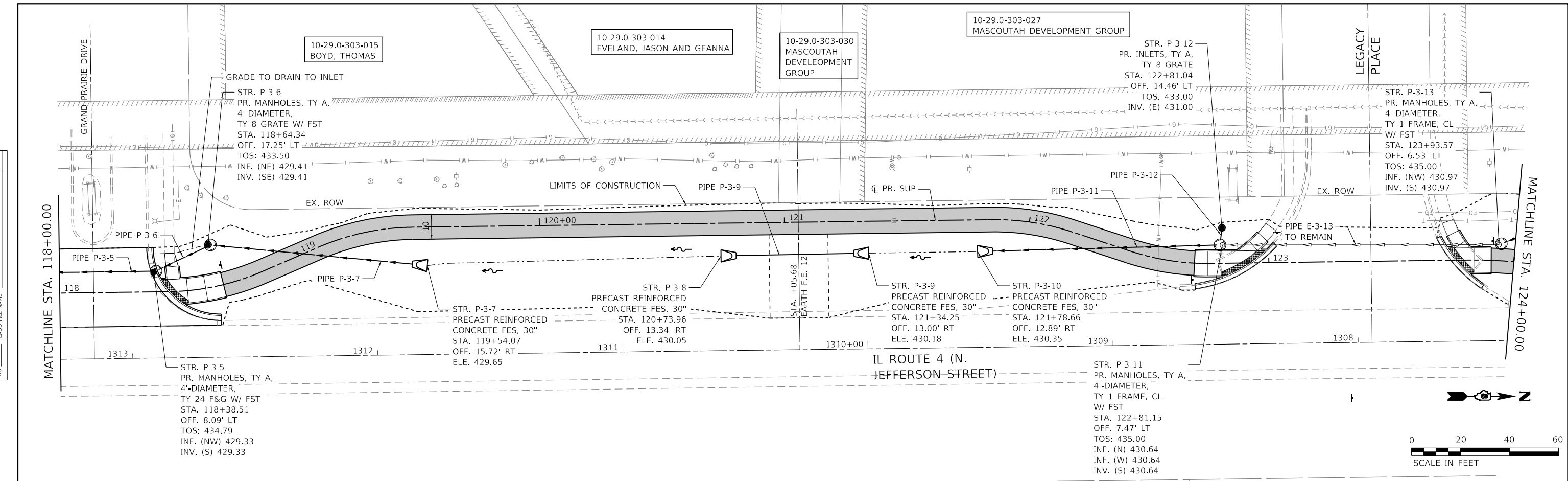
CITY OF MASCOU TAH

DRAINAGE PLAN AND PROFILE	
SCALE: 1"=20'	SHEET 2 OF 5 SHEETS
STA. 106+00.00	TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	26
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	
* 21-00024-02-BT & 23-00024-03-BT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	FILE NAME	
	PROJECT	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS	
	NO.	



434.89	434.87	434.98	434.88	434.96	434.88	434.65	434.97	434.00	434.80	432.08	434.38	431.26	433.96	432.61	433.62	433.47	433.39	433.56	433.32	433.60	433.28	429.69	433.45	433.21	429.75	433.01	433.15	429.81	433.09	433.08	429.87	433.13	433.01	429.92	433.12	432.98	429.95	433.13	432.95	429.98	433.32	432.88	433.20	432.82	433.15	432.75	432.99	432.77	430.22	432.88	432.82	430.25	432.74	432.90	430.28	432.65	433.16	432.45	433.45	431.78	433.73	431.33	433.97	432.04	434.07	432.49	434.16	434.73	434.33	434.73	434.50	435.02	434.66	435.11	434.83	435.14	434.91	435.18	434.99	435.22	435.16	432.91	435.15
118+00		118+50		119+00		119+50		120+00		120+50		121+00		121+50		122+00		122+50		123+00		123+50		124+00																																																											



USER NAME = efisher
 TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM LICENSE NO: 184-001220
 PLOT SCALE = 40,0000' / in.
 PLOT DATE = 1/14/2026

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



CITY OF MASCOUTAH

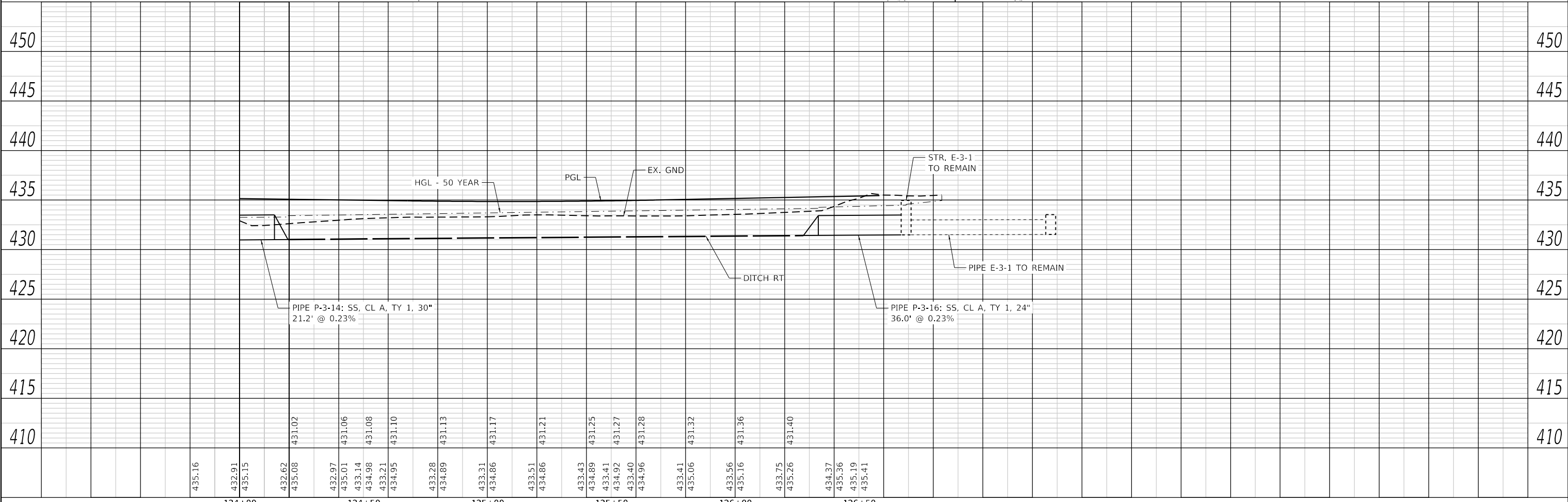
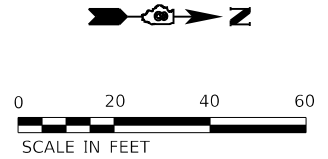
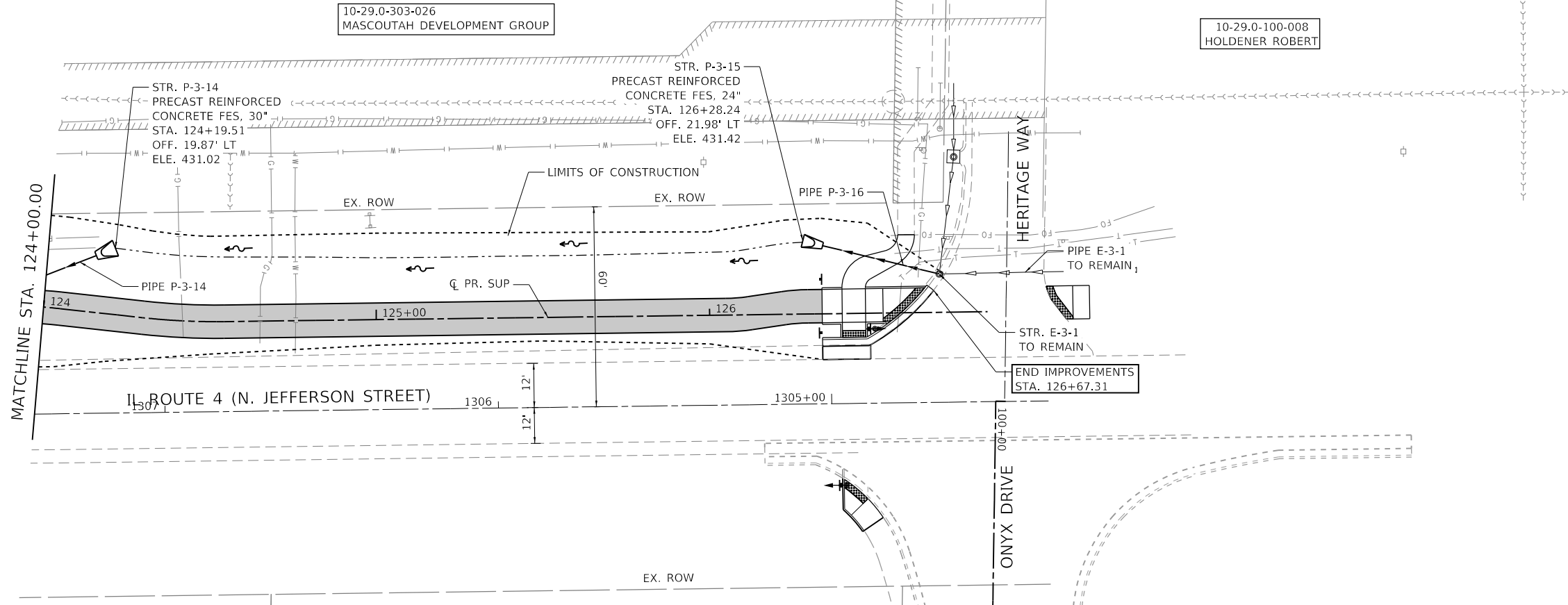
DRAINAGE PLAN AND PROFILE
 SCALE: 1"=20'
 SHEET 4 OF 5 SHEETS
 STA. 118+00.00 TO STA. 124+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	28
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

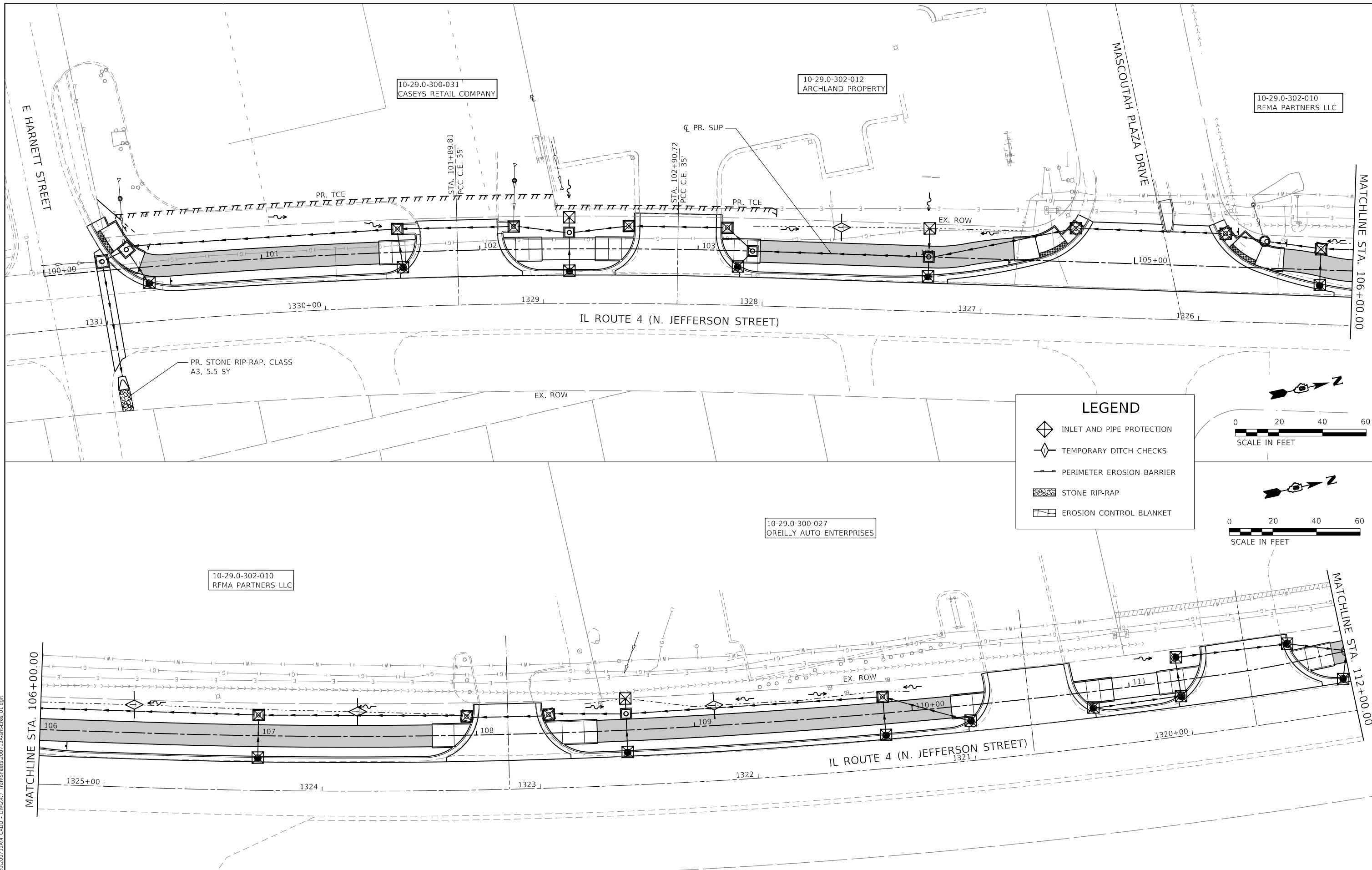
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

MODEL: Default
 FILE NAME: P:\2020\20200713\44 CADD - DWG\4.7 Tran\Sheets\200713a-shit-draft\pdp_05.dgn

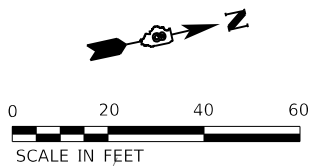
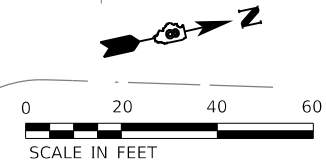


	TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = efisher DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -		CITY OF MASCOUTAH	DRAINAGE PLAN AND PROFILE			F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 29
	PLOT SCALE = 40.0000' / in. PLOT DATE = 1/14/2026	SCALE: 1"=20' SHEET 5 OF 5 SHEETS STA. 124+00.00 TO STA.	CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT							



LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- STONE RIP-RAP
- EROSION CONTROL BLANKET



MODEL: Dwg.rvt
 FILE NAME: P:\2020\200713A4_CADD - DWG\K47_TownSheets\200713A-sh-Eros-01.dgn

TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher
 PLOT SCALE = 40,0000' / in.
 PLOT DATE = 1/14/2026

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

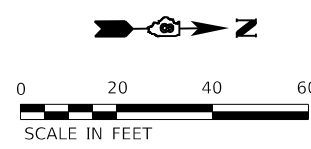


CITY OF MASCOU TAH

EROSION CONTROL
 SCALE: 1"=20'
 SHEET 1 OF 3 SHEETS
 STA. 100+00.00 TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	30
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
 * 21-00024-02-BT & 23-00024-03-BT



MATCHLINE STA. 112+00.00

MATCHLINE STA. 1+20.00

MATCHLINE STA. 118+00.00

LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- STONE RIP-RAP
- EROSION CONTROL BLANKET

10-29.0-300-002
MASCOUTAH SUR WATER PRO DIST

10-29.0-315-018
PRAIRIE VIEW
HOMEOWNERS ASSOC

10-29.0-315-016
HAHN, PATRICK AND JENNIFER

10-29.0-315-014
HALGREN, JAMES R AND SARAH L

10-29.0-315-015
SCHNEIDER, MARY

10-29.0-315-019 PRAIRIE
VIEW HOMEOWNERS ASSOC

10-29.0-312-017
COMBS, JAMES AND REBECCA

10-29.0-303-015
BOYD, THOMAS

10-29.0-303-014
EVELAND, JASON AND GEANNA

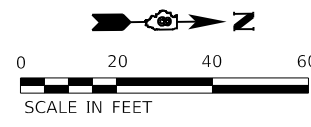
10-29.0-303-030
MASCOUTAH
DEVELOPMENT
GROUP

10-29.0-303-027
MASCOUTAH DEVELOPMENT GROUP

LEGACY
PLACE

MATCHLINE STA. 118+00.00

MATCHLINE STA. 124+00.00



MODEL: Dwg.rvt
FILE NAME: P:\2020\200713A4_CADD - DWG\K47_TermSheets\200713A-shr-Eros_02.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISD -
REVISD -
REVISD -
REVISD -



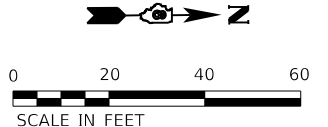
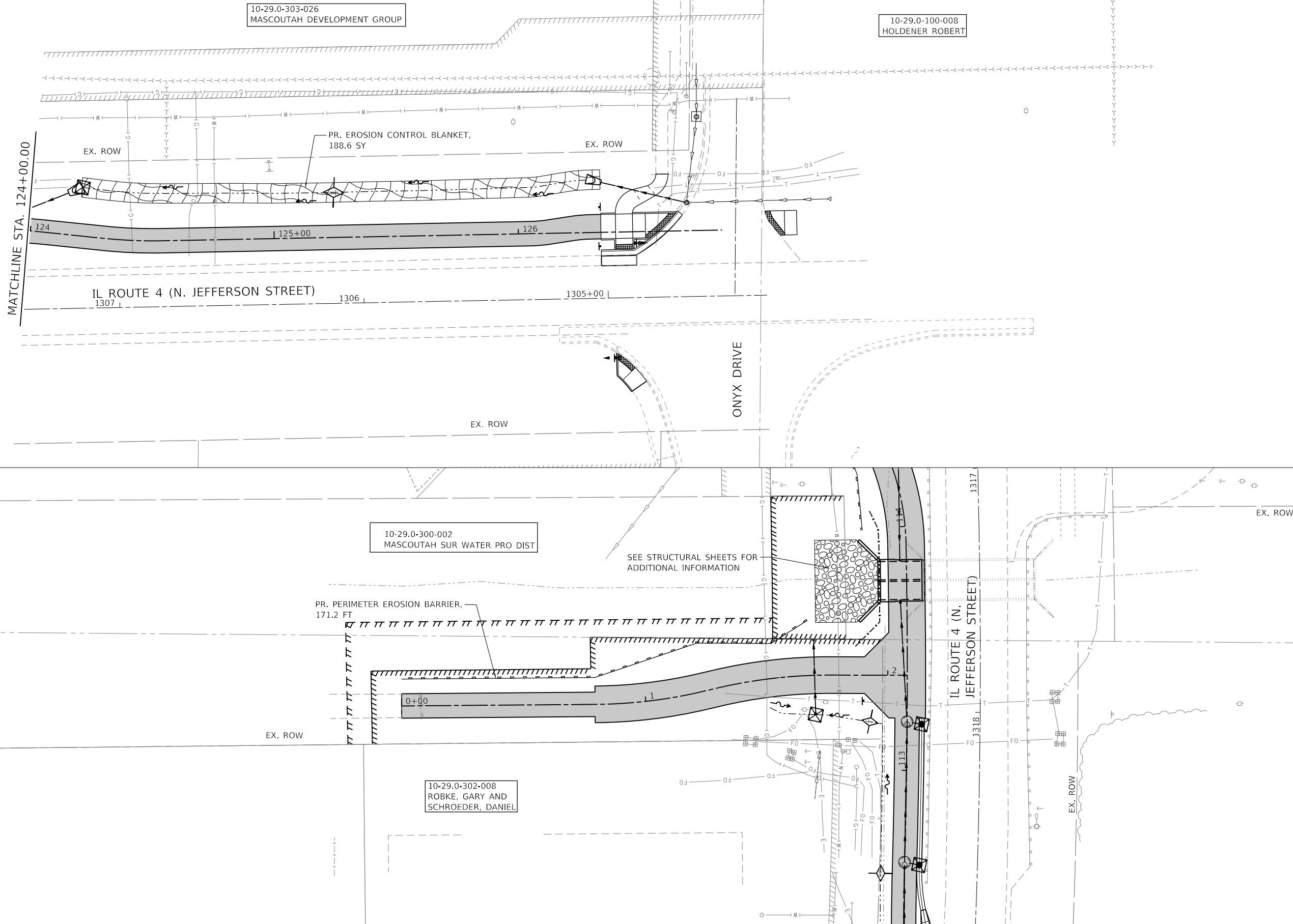
CITY OF MASCOUTAH

EROSION CONTROL

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 112+00.00 TO STA. 124+00.00

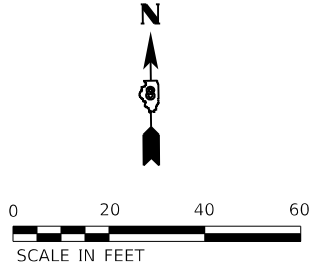
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	31
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
* 21-00024-02-BT & 23-00024-03-BT



LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- STONE RIP-RAP
- EROSION CONTROL BLANKET



MODEL: Dwg1.rvt
 FILE NAME: P:\2020\200713A4_CADD - DWG\K7_Team\Sheets\200713A4-eh-Eros_03.dgn

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	efisher
PLOT SCALE =	40.0000 ' / in.
PLOT DATE =	1/14/2026

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	



CITY OF MASCOUHAH

EROSION CONTROL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	32
CONTRACT NO. 97878				

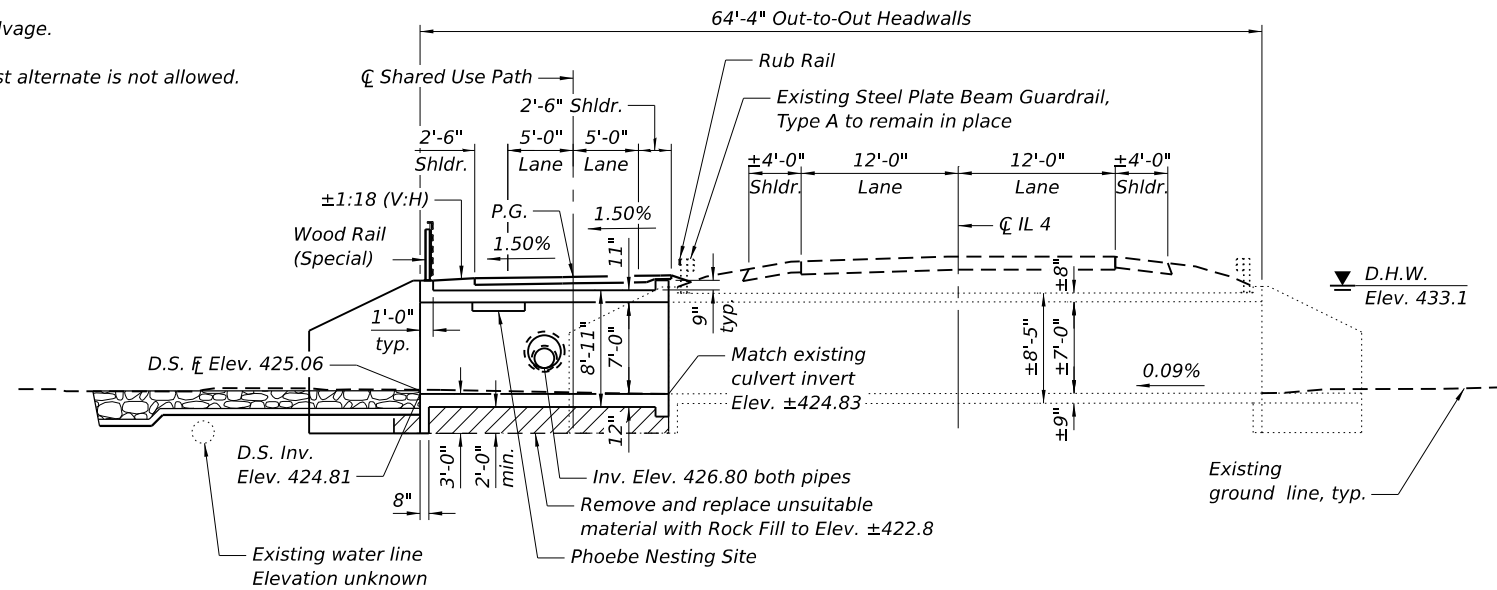
ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT

Bench Mark: Cut "X" on the SE corner of the sidewalk at the intersection of IL Rte. 4 and Moorland Cir., Elev. 434.72

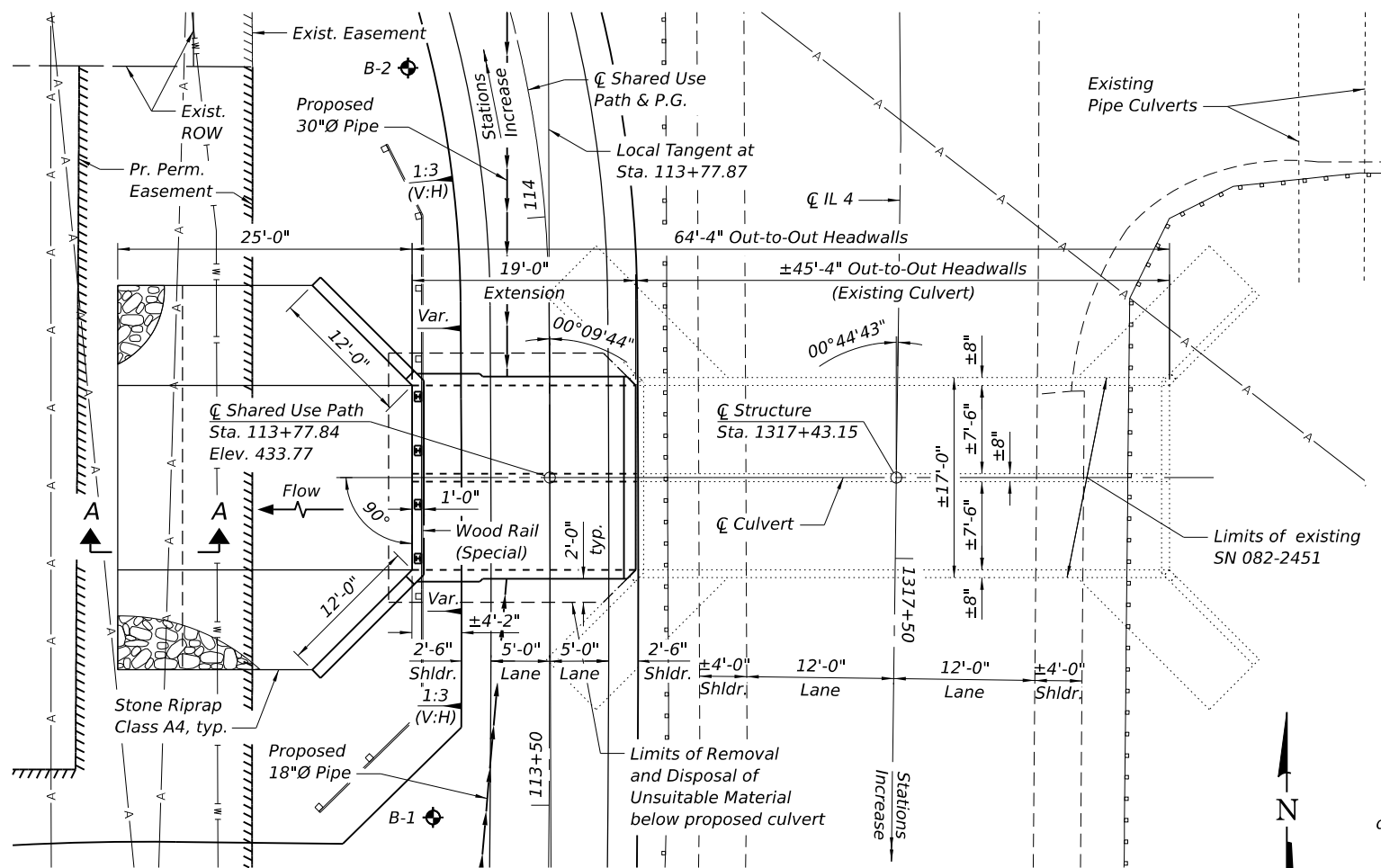
Existing Structure: S.N. 082-2451 was built in 1961 as a part of the Hog River - Pig Creek Diversion Channel project for the Mascoutah Surface Water Protection District. The existing structure is a double cell reinforced concrete box culvert with L-type wingwalls. The overall length of the culvert is 45'-4" and the overall width is 17'-0". No traffic control necessary.

No Salvage.

Precast alternate is not allowed.



LONGITUDINAL SECTION
(Looking North)
Dimensions at Rt. \angle 's to Roadway



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	88
Filter Fabric	Sq. Yd.	88
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	33
Reinforcement Bars	Pound	8,030
Expansion Bolts $\frac{3}{4}$ "	Each	32
Concrete Box Culverts	Cu. Yd.	45.4
Box Culverts to be Cleaned	Foot	91
Membrane Waterproofing System for Buried Structures	Sq. Yd.	40
Rock Fill - Foundation	Ton	59
Wood Rail (Special)	Foot	18

GENERAL NOTES

Expansion bolts shall be $\frac{3}{4}$ " hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
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.
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the Geotechnical and Field Engineers for variable subsurface conditions encountered in the field. The minimum Unconfined Compressive Strength of the layer below the removal limit shall be 1.0 tsf.

INDEX OF SHEETS

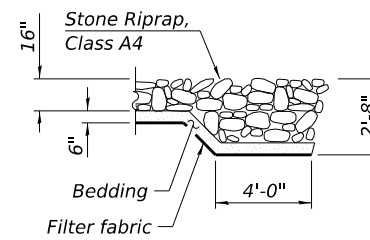
1. General Plan & Elevation
2. General Data
3. Culvert Extension Details
4. Culvert Extension Details
5. Wood Rail Details
6. Soil Boring Logs

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

WATERWAY INFORMATION

		Q		Opening Ft ²		Nat. Head - Ft.		Headwater El.	
Flood Yr.	Freq.	C.F.S.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.
Ten-Year	10	375	103	103	431.7	0.2	0.2	431.9	431.9
Design	50	604	105	105	433.1	0.7	0.7	433.8	433.8
Base	100	707	105	105	433.6	1.0	1.0	434.6	434.6
Max. Calc.	500	962	105	105	434.7	0.7	0.7	435.4	435.4



SECTION A-A

CURVE DATA

P.I. Sta. = 113+27.47
 $\Delta = 2^\circ 42' 16''$ (LT)
 $D = 2^\circ 04' 06''$
 $R = 2,770.00'$
 $T = 65.39'$
 $L = 130.75'$
 $E = 0.77'$
P.C. Sta. = 112+62.08
P.T. Sta. = 113+92.83

CURVE DATA

P.I. Sta. = 114+10.12
 $\Delta = 19^\circ 36' 57''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 17.29'$
 $L = 34.24'$
 $E = 1.48'$
P.C. Sta. = 113+92.83
P.T. Sta. = 114+27.07

LOADING HL-93

No allowance for future wearing surface.

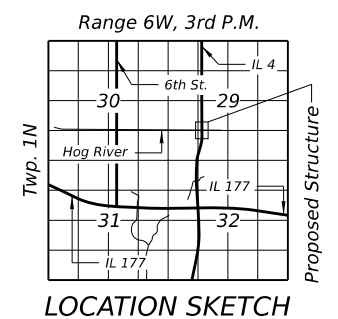
DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

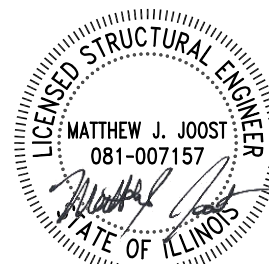
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (EXISTING CONSTRUCTION)

$f'_c = 3,500$ psi (Barrel)
 $f'_c = 2,500$ psi (Wingwalls)
 $f_y = 40,000$ psi (Reinforcement)

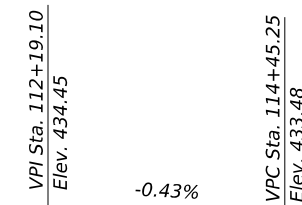


LOCATION SKETCH



Signed: 11/20/2025
Expires: 11/30/2026

I certify that to the best of knowledge, information and belief, this box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Design Specifications shown on the plans.



PROFILE GRADE

(along \bar{C} Shared Use Path)

GENERAL PLAN & ELEVATION
IL RTE. 4 SHARED USE PATH OVER HOG RIVER
F.A.P. RTE. 678 SEC. 21-00024-02-BT
ST. CLAIR COUNTY
STATION 113+77.84
STRUCTURE NO. 082-2451

MODEL: Default
FILE NAME: P:\2020\200713A\4 CADD - DWG\4.4 Struc\0822451-001-General Plan & Elevation.dgn
11/20/2025 8:58:33 AM



USER NAME = jesker
DESIGNED - JBE
CHECKED - CDK/MJJ
DRAWN - JBE
CHECKED - CDK/MJJ

DESIGNED - JBE
CHECKED - CDK/MJJ
DRAWN - JBE
CHECKED - CDK/MJJ

REVISED -
REVISED -
REVISED -
REVISED -

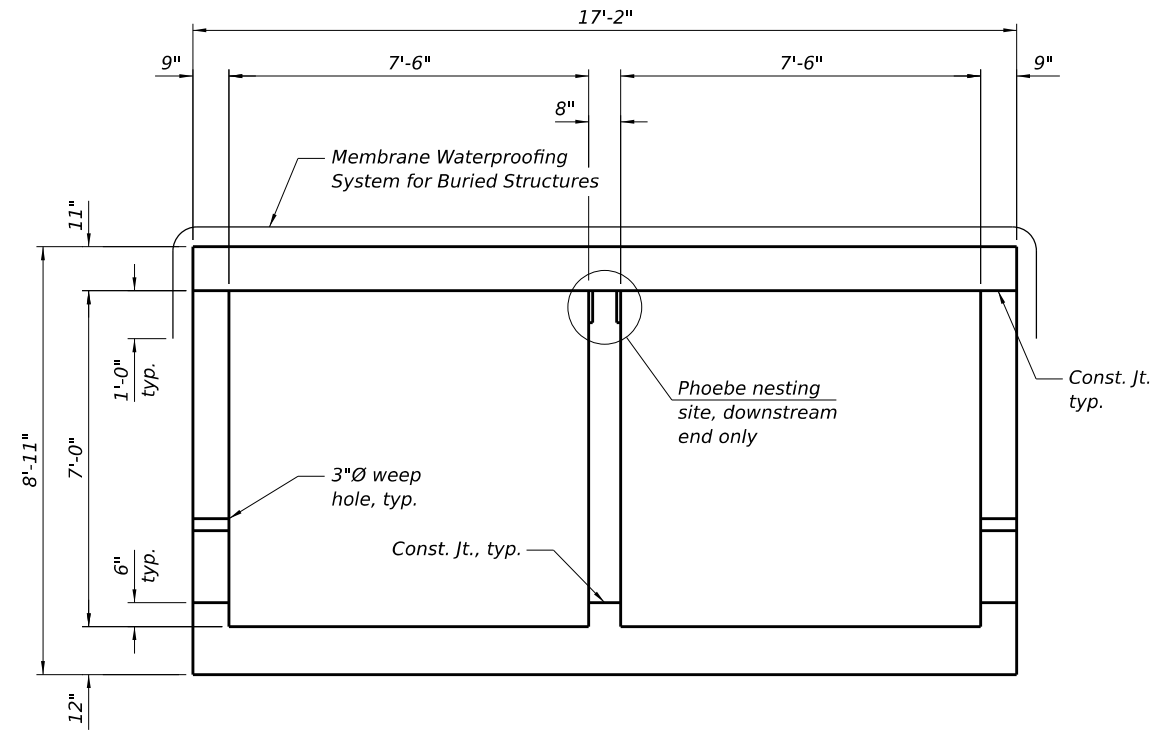


CITY OF MASCOUTAH

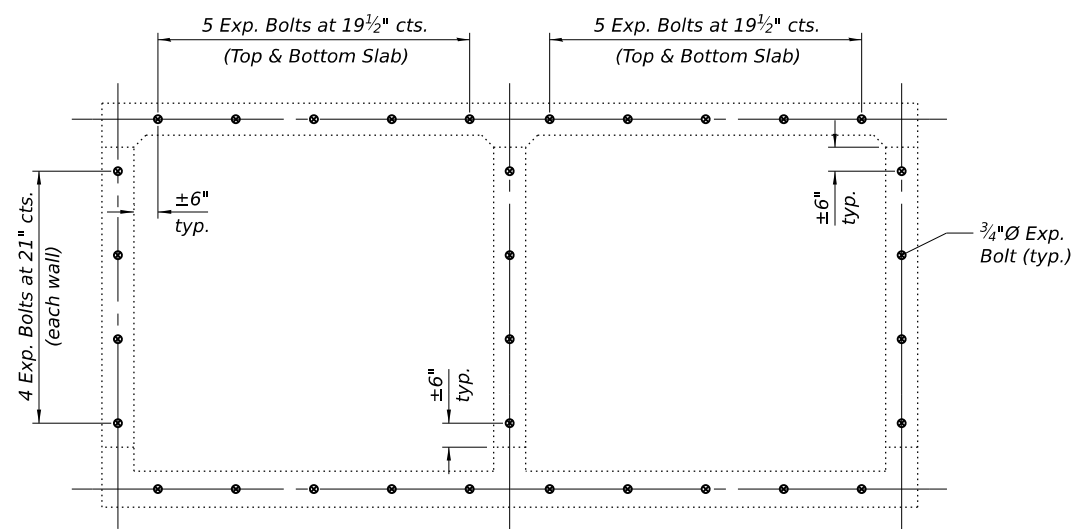
GENERAL PLAN & ELEVATION
STRUCTURE NO. 082-2451
SHEET 1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	21-00024-02-BT	ST. CLAIR	65	33

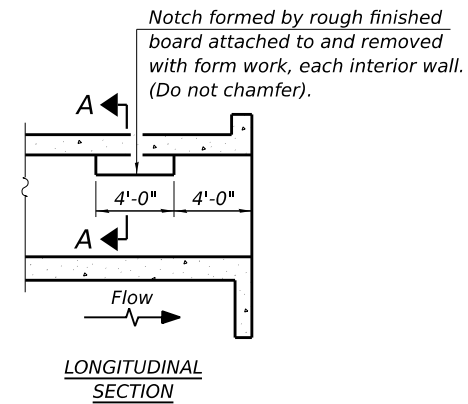
CONTRACT NO. ILLINOIS FED. AID PROJECT



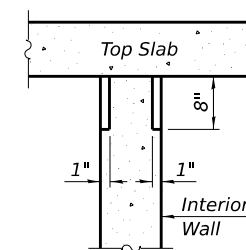
SECTION THRU BARREL



EXPANSION BOLT DETAIL

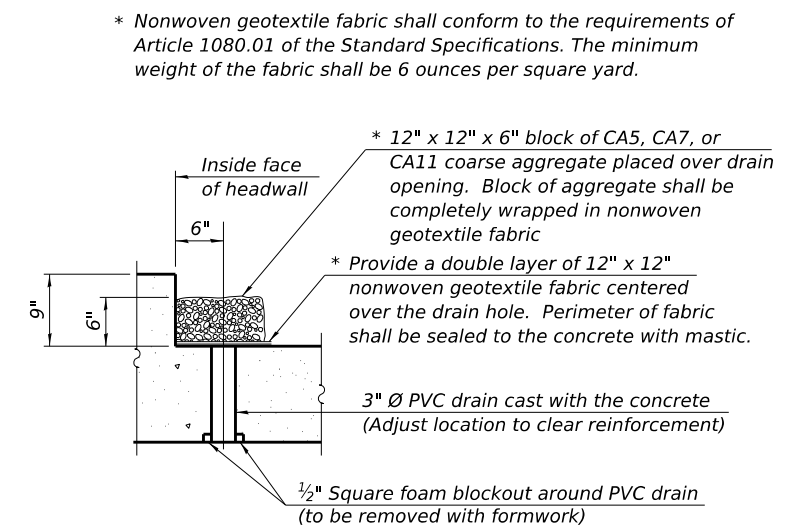


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS (Downstream End Only)



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

MODEL: Default
FILE NAME: P:\2020\200713A\4 CADD - DWG\4.4 Struct\0822451-002-General Data.dgn
11/11/2025 8:10:55 AM



TWM, INC.
www.twm-inc.com
ILL. DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = jesker
DESIGNED - JBE
CHECKED - MJJ
PLOT SCALE = 0.167' / in.
DRAWN - JBE
PLOT DATE = 11/11/2025
CHECKED - MJJ
REVISED -

DESIGNED - JBE
CHECKED - MJJ
DRAWN - JBE
CHECKED - MJJ
REVISED -

REVISED -
REVISED -
REVISED -
REVISED -

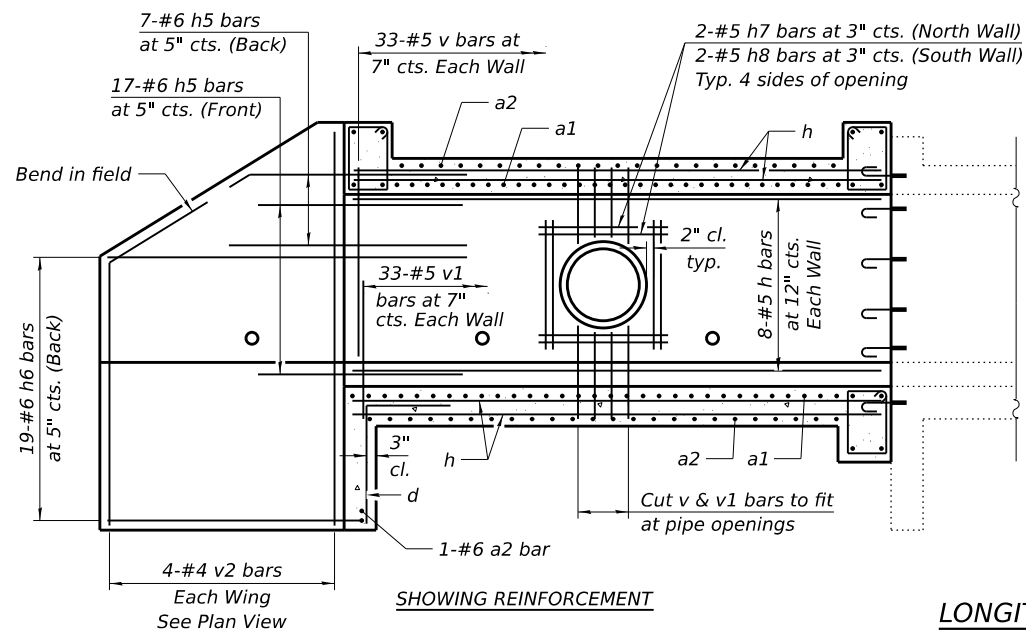


CITY OF MASCOUTAH

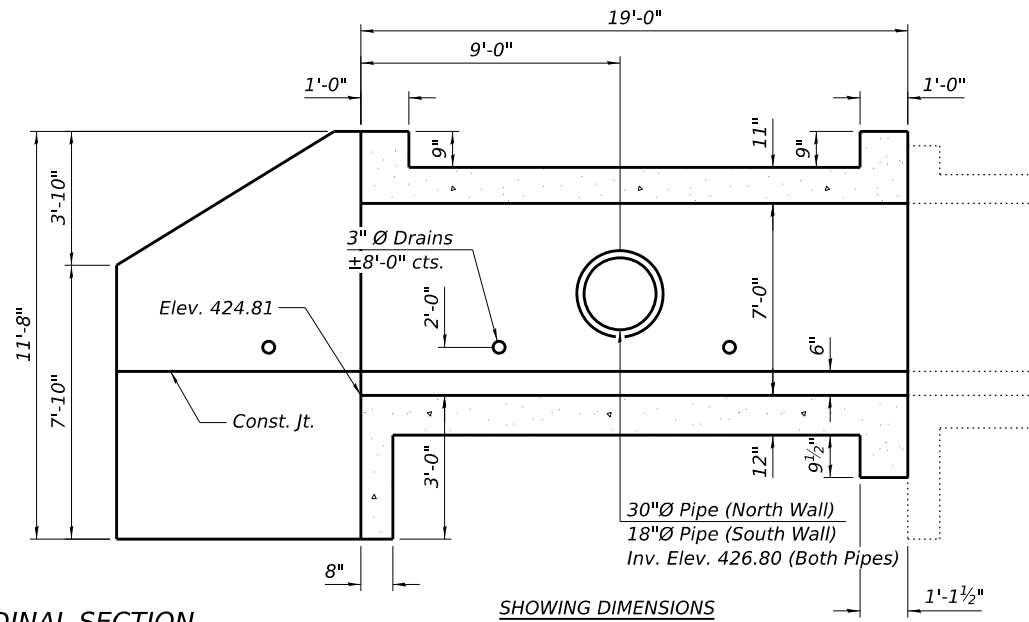
**GENERAL DATA
STRUCTURE NO. 082-2451**

SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	21-00024-02-BT	ST. CLAIR	65	34
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



SHOWING REINFORCEMENT

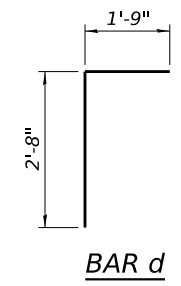


LONGITUDINAL SECTION

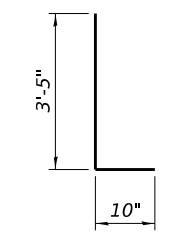
(Pipe opening at North Wall shown, South Wall similar)

BILL OF MATERIAL

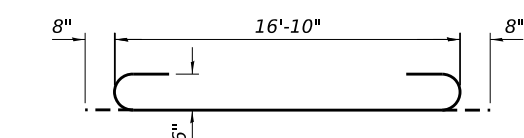
Bar	No.	Size	Length	Shape
a1	61	#6	18'-2"	
a2	47	#6	16'-10"	
d	16	#4	4'-5"	
h	94	#5	18'-7"	
h1	4	#7	15'-6"	
h2	4	#6	15'-6"	
h3	2	#7	16'-4"	
h4	2	#6	16'-4"	
h5	48	#6	8'-0"	
h6	38	#6	15'-0"	
h7	8	#5	4'-6"	
h8	8	#5	3'-6"	
s	49	#4	5'-1"	
v	105	#5	7'-1"	
v1	105	#5	4'-3"	
v2	8	#4	11'-3"	
Concrete Box Culverts			Cu. Yd.	45.4
Reinforcement Bars			Pound	8,030



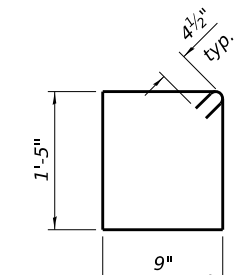
BAR d



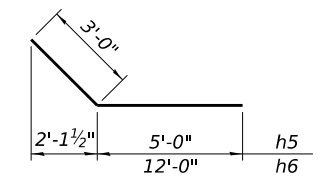
BAR v1



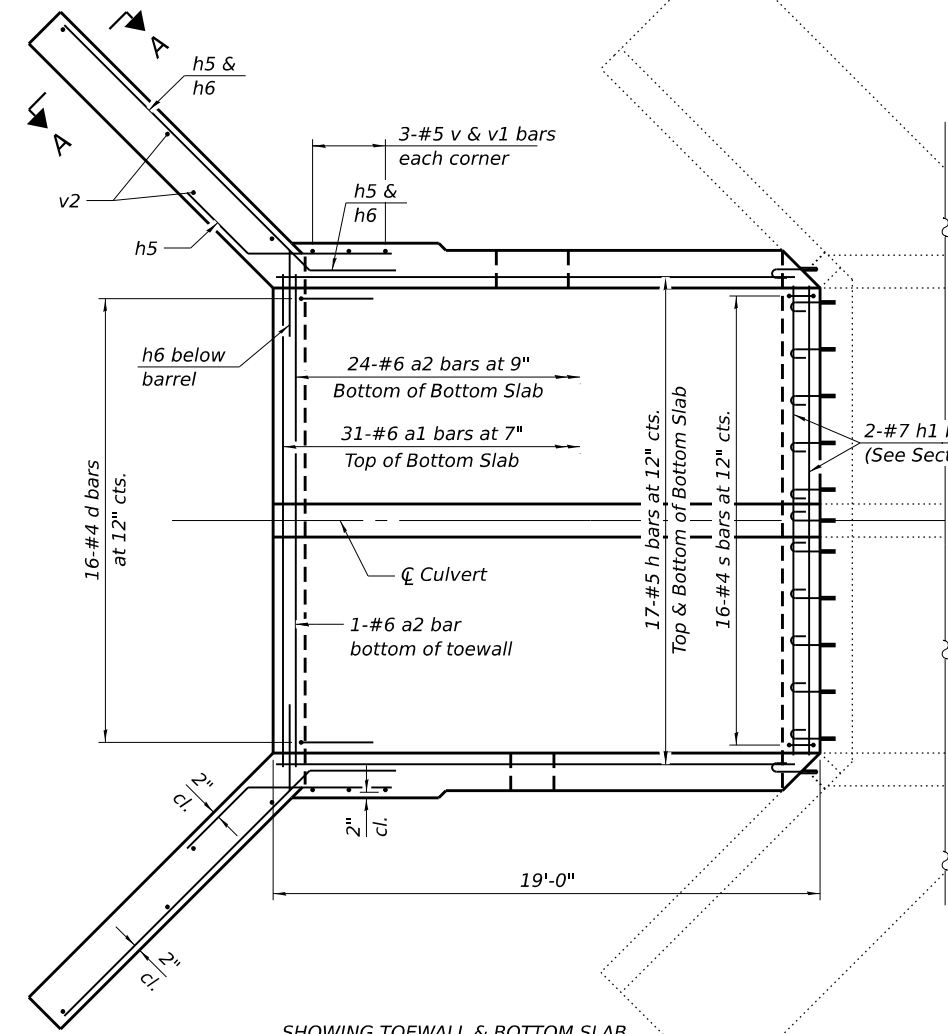
BAR a1



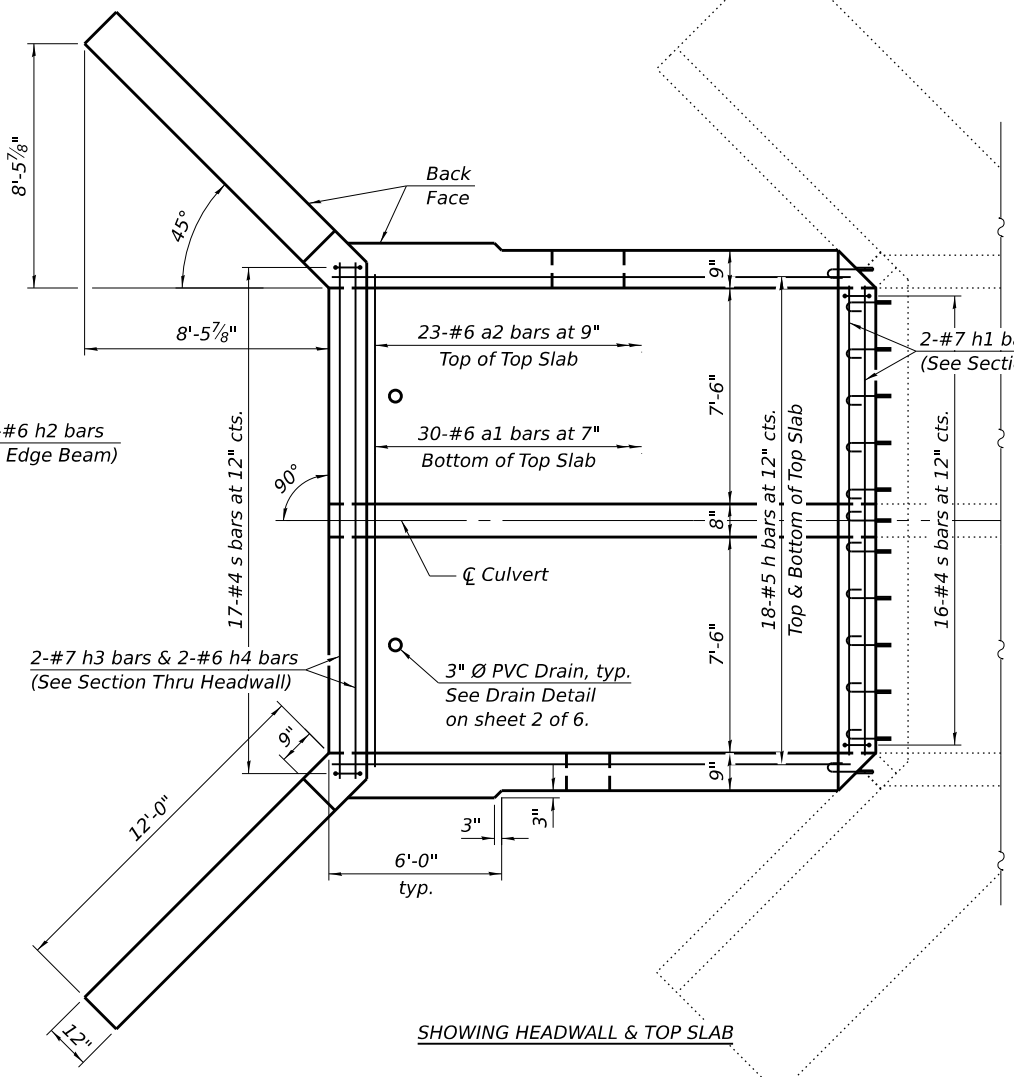
BAR s



BARS h5 & h6



SHOWING TOEWALL & BOTTOM SLAB



SHOWING HEADWALL & TOP SLAB

PLAN

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls. See Sheet 4 of 6 for Section Thru Barrel, Section Thru Headwall, Section Thru Edge Beam, and Section A-A.

At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

Pipe sections shall be cast in the exterior culvert walls at the location shown. The ends shall extend a minimum of 6 inches past the inside face of walls. The pipes shall extend through and beyond the outside face a sufficient distance to allow connections.

The Contractor shall carefully construct the walls around the pipes to prevent leakage along the surfaces. The Contractor shall seal any voids between the culvert walls and sections with non-shrink grout per Article 1024.02 of the Standard Specifications.

The cost of the connection shall not be paid for separately but shall be included in the length of pipe culvert or storm sewer of the class, type, and size shown.

MODEL: Default
FILE NAME: P:\2020\200713A\4 CADD - DWG\4.4 Struc\0822451-003-Culvert Extension Details.dgn
11/20/2025 8:57:53 AM



TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM LICENSE NO: 184-001220

USER NAME = jesker
DESIGNED - JBE
CHECKED - CDK/MJJ
DRAWN - JBE
CHECKED - MJJ

REVISIONS:
REVISED -
REVISED -
REVISED -
REVISED -

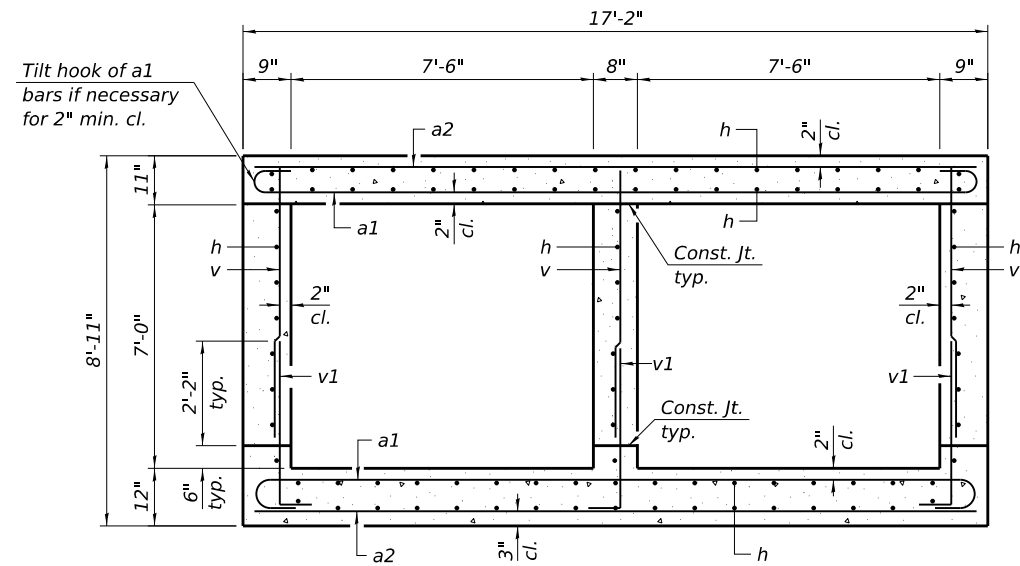


CITY OF MASCOUTAH

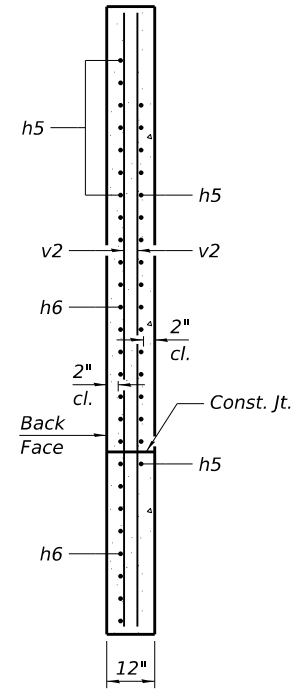
**CULVERT EXTENSION DETAILS
STRUCTURE NO. 082-2451**

SHEET 3 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	21-00024-02-BT	ST. CLAIR	65	35
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

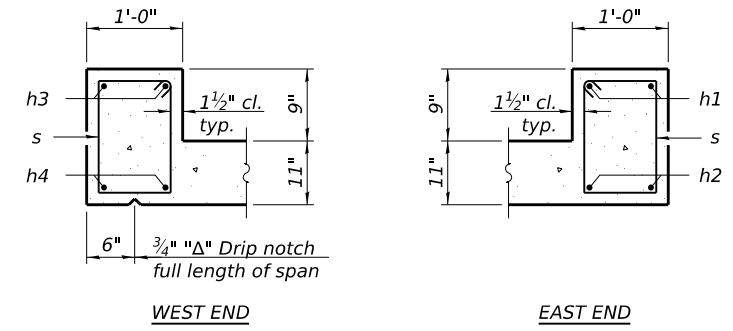


SECTION THRU BARREL

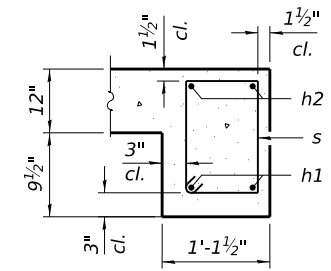


SECTION A-A

(See Sheet 3 of 6 for location of Section A-A)



SECTION THRU HEADWALL



SECTION THRU EDGE BEAM

MODEL: Default
FILE NAME: P:\2020\200713A14 CADD - DWG\4.4 Struc\0822451-004-Culvert Extension Details.dgn
11/11/2025 12:03:02 PM



TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = jesker
DESIGNED - JBE
CHECKED - CDK/MJJ
DRAWN - JBE
MJJ
PLOT SCALE = 0.167' / in.
PLOT DATE = 11/11/2025

DESIGNED - JBE
CHECKED - CDK/MJJ
DRAWN - JBE
MJJ
REVISIONS

REVISIONS
REVISIONS
REVISIONS
REVISIONS

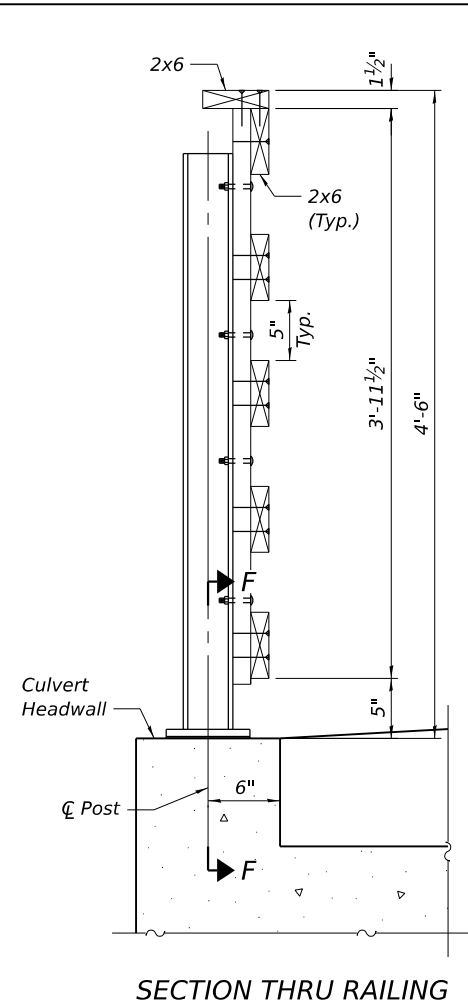


CITY OF MASCOUTAH

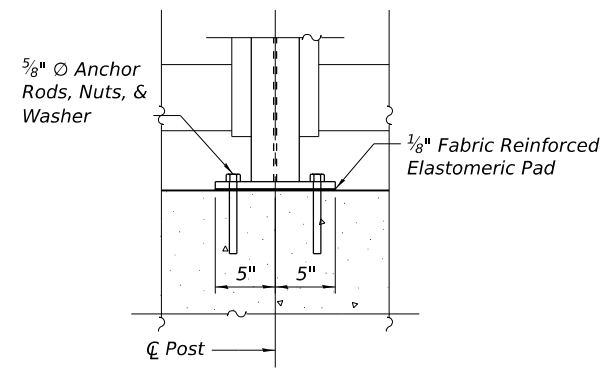
**CULVERT EXTENSION DETAILS
STRUCTURE NO. 082-2451**

SHEET 4 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	21-00024-02-BT	ST. CLAIR	65	36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

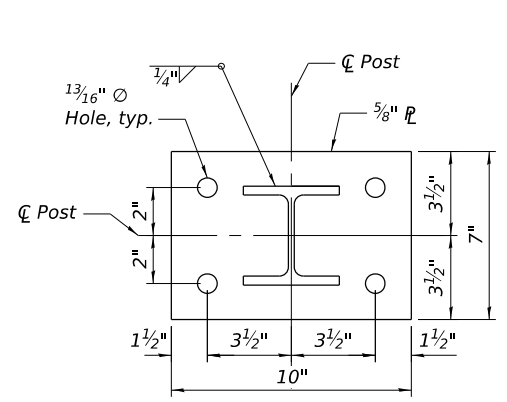


SECTION THRU RAILING

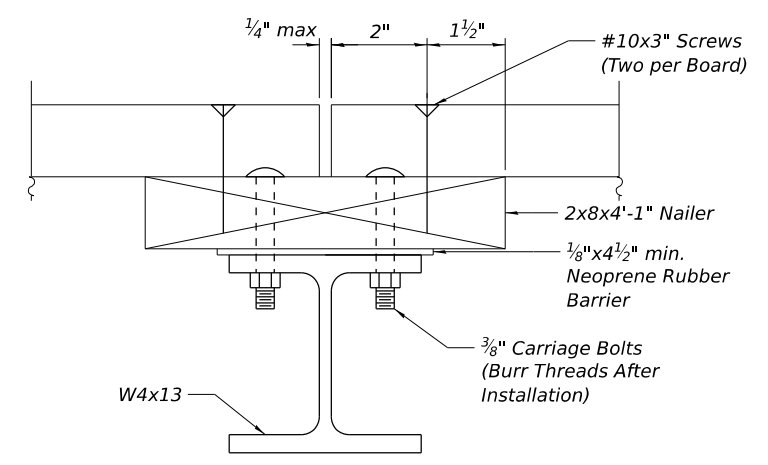


SECTION F-F

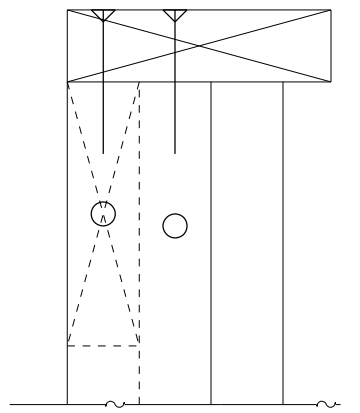
Drill and set 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment (6" min.) shall be according to the manufacturer's specifications.



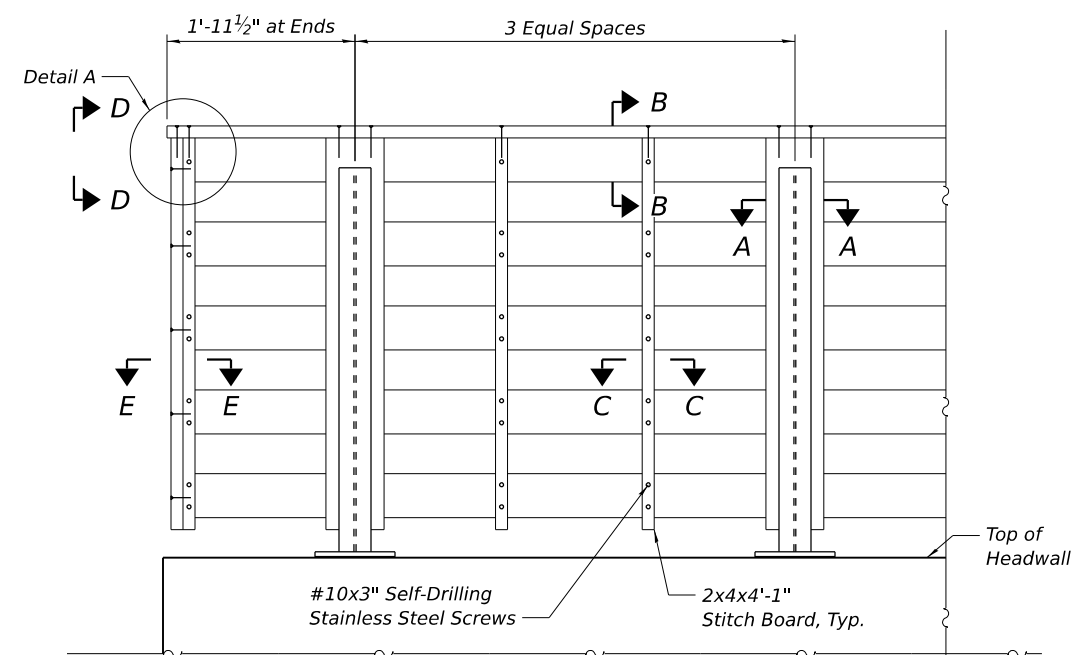
BASE PLATE



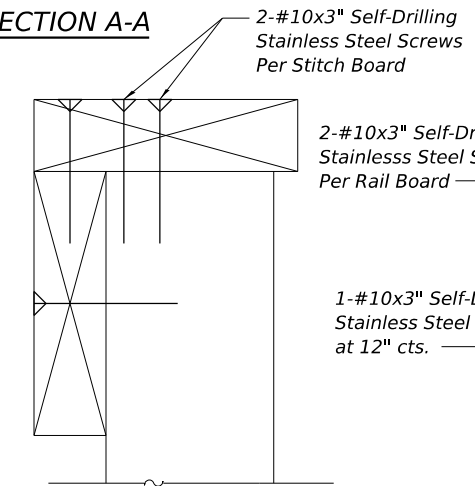
SECTION A-A



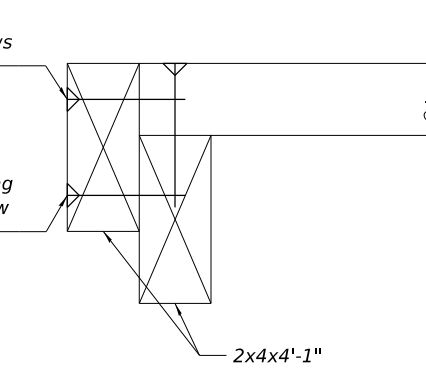
SECTION D-D



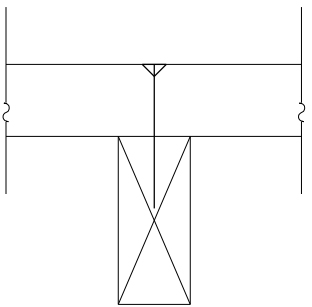
RAILING ELEVATION



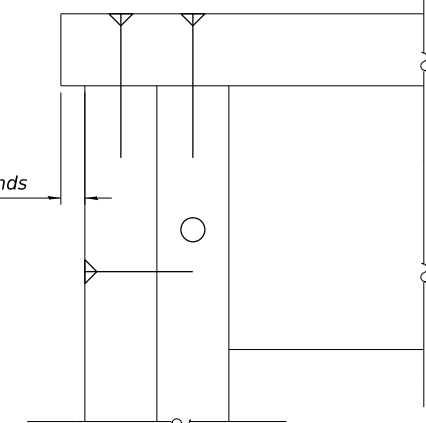
SECTION B-B



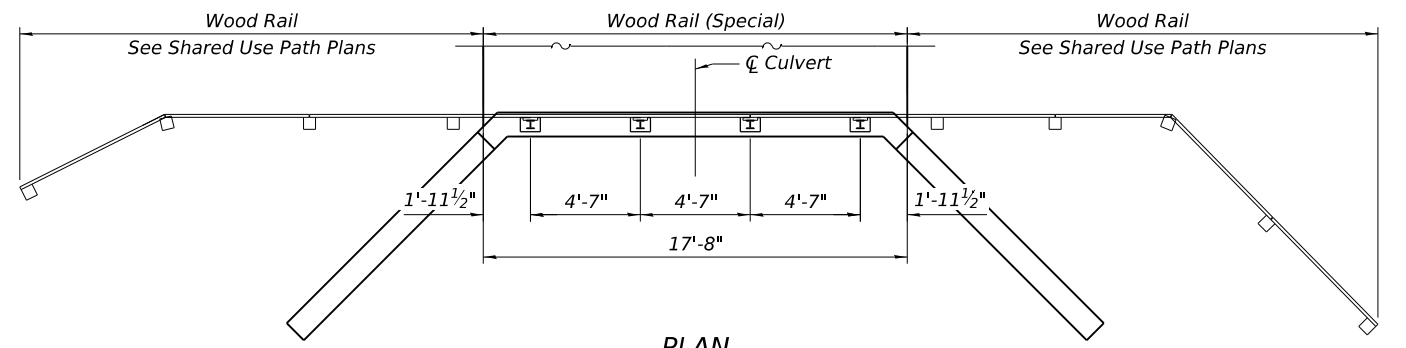
SECTION E-E



SECTION C-C



DETAIL A



PLAN

- Notes:
- Carriage bolts and screws shall be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 - Neoprene rubber barrier shall meet the material requirements of Article 1052.02 (a) of the Standard Specifications.
 - Anchor bolts, nuts, and washers shall be hot dipped galvanized in accordance with ASTM F 2329.
 - Wood rail construction shall be in accordance with Section 507 of the Standard Specification except as modified by these plans.
 - Submit pressure treatment type and retention level prior to ordering timber. Pressure treatment shall be one of the following:
 - MCA with a minimum retention level of 0.23
 - ACQ with a minimum retention level of 0.60
 - Pressure treated lumber shall not contact any metal except stainless steel fasteners.
 - Screws shall be driven such that boards are tightly clamped. Where screw threads in top board push the boards apart screws shall be backed out and re-driven until the boards are tightly clamped. If re-driving does not tightly clamp boards other methods such as pre-drilling top boards shall be used.
 - Rail boards shall only terminate at posts as shown in Section A-A. Rail boards shall be continuous over the end posts. Terminate as shown in the Railing Elevation.
 - Holes for anchor bolts may be drilled through reinforcement.
 - Cost of furnishing and installing anchor bolts, fabricating and installing posts, and furnishing and installing timber, including all fasteners and neoprene barrier shall be included in the cost of Wood Rail (Special). This work will be measured for payment in place in feet. The length measured will be the overall length along the top longitudinal railing member through all posts and gaps.

MATERIALS

W Shapes = AASHTO M270 Grade 50W
 Plates = AASHTO M270 Grade 50W
 Anchor Bolts = F1554 Grade 36
 Welds = E70XX Electrodes
 Timber = No. 1 Southern Pine (Pressure Treated)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Wood Rail (Special)	Foot	18

MODEL: Default
 FILE NAME: P:\2020\200713A\4 CADD - DWG\4.4_Struct\0822451-005-Wood Rail (Special) Details.dgn
 11/20/2025 9:03:45 AM

TWM
 ENGINEERING
 GEOSPATIAL SERVICES
 TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jesker	DESIGNED - JMM	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - JBE	REVISED -
PLOT DATE = 11/20/2025	DRAWN - JMM	REVISED -
	CHECKED - JBE	REVISED -



CITY OF MASCOUTAH

**WOOD RAIL (SPECIAL) DETAILS
 STRUCTURE NO. 082-2451**

SHEET 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	21-00024-02-BT	ST. CLAIR	65	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.


Surface Elevation: <u>432.0</u>		Completion Date: <u>12/28/23</u>		GRAPHIC LOG	SAMPLES	SHEAR STRENGTH, tsf				
Datum: <u>NAVD88</u>						Δ - UU/2	○ - QU/2	□ - Rimac/2		
DEPTH IN FEET	ELEVATION IN FEET	STANDARD PENETRATION RESISTANCE				WATER CONTENT, %				
		▲ N-VALUE (BLOWS PER FOOT) (ASTM D 1586)		PL	10	20	30	40	50	LL
		Stiff to soft, brown and gray, LEAN CLAY, trace to some sand - (CL)								
		4-6-7 (21)	SS1							
		3-3-4 (11)	SS2							
5	427.0	2-3-4 (11)	SS3							
		2-2-3 (8)	SS4							
10	422.0	2-2-3 (8)	SS5							
		1-1-2 (5)	SS6							
15	417.0	1-1-2 (5)	SS7							
		1-2-2 (7)	SS8							
20	412.0	0-0-0 (0)	SS9							
		2-5-3 (13)	SS10							
25	407.0	Boring terminated at 25.0 feet								
30	402.0									
35	397.0									

GROUNDWATER DATA
ENCOUNTERED AT 21 FEET ∇

DRILLING DATA
 ___ AUGER 3 3/4" HOLLOW STEM
 WASHBORING FROM ___ FEET
RR DRILLER SAG LOGGER
CME 55LC DRILL RIG
 HAMMER TYPE Auto
 HAMMER EFFICIENCY 98 %

REMARKS:

Drawn by: WAH Checked by: ACE App'vd. by: CKK
 Date: 1/2/24 Date: 2-8-24 Date: 2-15-24



Pedestrian Trail
over Hog River
Mascoutah, Illinois

LOG OF BORING: B-01
Page 1 of 1

Project No. J039045.01

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.


Surface Elevation: <u>429.0</u>		Completion Date: <u>12/28/23</u>		GRAPHIC LOG	SAMPLES	SHEAR STRENGTH, tsf				
Datum: <u>NAVD88</u>						Δ - UU/2	○ - QU/2	□ - Rimac/2		
DEPTH IN FEET	ELEVATION IN FEET	STANDARD PENETRATION RESISTANCE				WATER CONTENT, %				
		▲ N-VALUE (BLOWS PER FOOT) (ASTM D 1586)		PL	10	20	30	40	50	LL
		Stiff to soft, brown and gray, LEAN CLAY, trace sand and roots - (CL)								
		2-3-3 (10)	SS1							
		1-2-3 (8)	SS2							
5	424.0	1-2-2 (7)	SS3							
		0-2-4 (10)	SS4							
10	419.0	0-2-4 (10)	SS5							
		0-0-2 (3)	SS6							
15	414.0	0-1-2 (5)	SS7							
		0-0-1 (2)	SS8							
20	409.0	1-3-6 (15)	SS9							
		0-2-2 (7)	SS10							
25	404.0	Boring terminated at 25.0 feet.								
30	399.0									
35	394.0									

GROUNDWATER DATA
ENCOUNTERED AT 16 FEET ∇

DRILLING DATA
 ___ AUGER 3 3/4" HOLLOW STEM
 WASHBORING FROM ___ FEET
RR DRILLER SAG LOGGER
CME 55LC DRILL RIG
 HAMMER TYPE Auto
 HAMMER EFFICIENCY 98 %

REMARKS:

Drawn by: WAH Checked by: ACE App'vd. by: CKK
 Date: 1/2/24 Date: 2-8-24 Date: 2-15-24



Pedestrian Trail
over Hog River
Mascoutah, Illinois

LOG OF BORING: B-02
Page 1 of 1

Project No. J039045.01

MODEL: Default
FILE NAME: P:\2020\200713A14 CADD - DWG\4.4 Struct\0822451-406-Boring_Logs.dgn



USER NAME = jesker	DESIGNED - JBE	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - MJJ	REVISED -
PLOT DATE = 11/11/2025	DRAWN - JBE	REVISED -
	CHECKED - MJJ	REVISED -

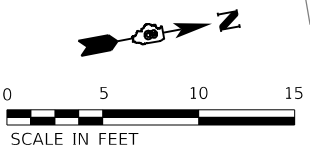


CITY OF MASCOUTAH

SOIL BORING LOGS
STRUCTURE NO. 082-2451

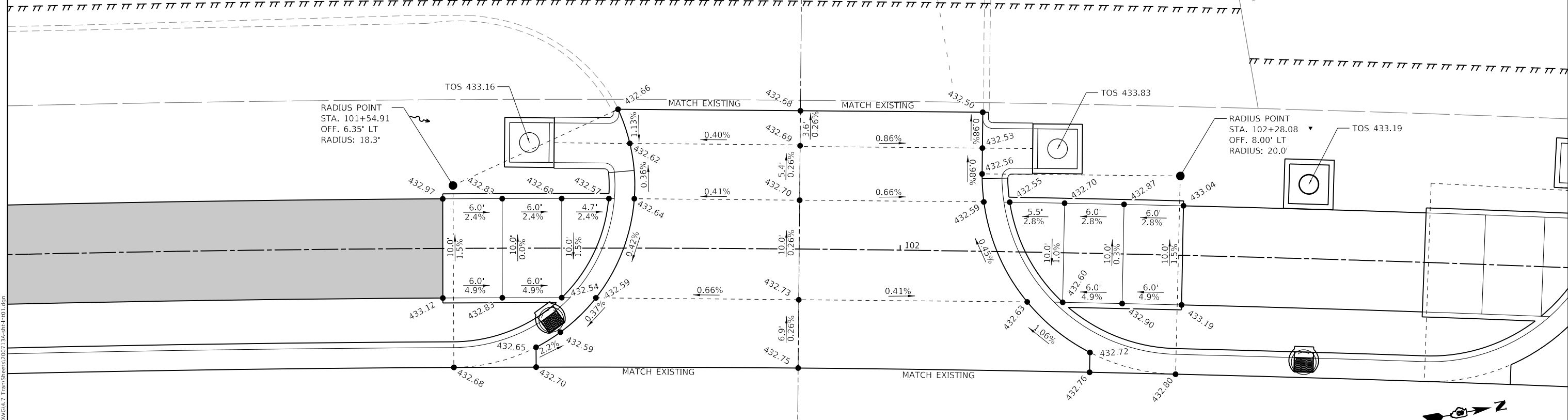
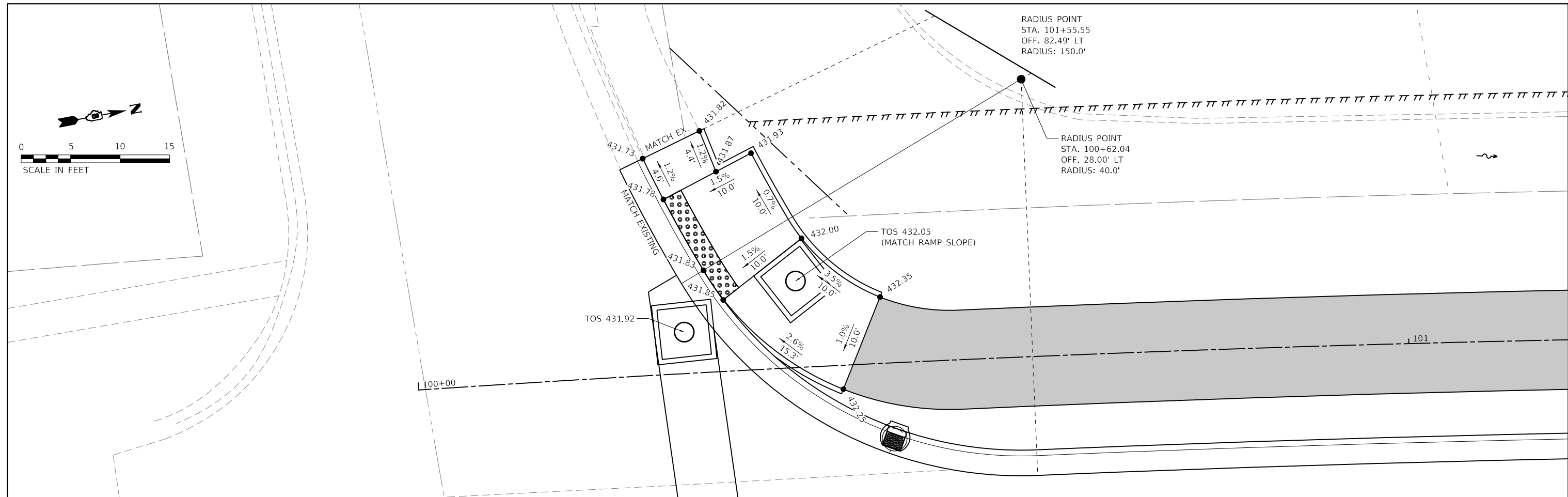
SHEET 6 OF 6 SHEETS

F.A.P. RTE. 678	SECTION 21-00024-02-BT	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 38
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

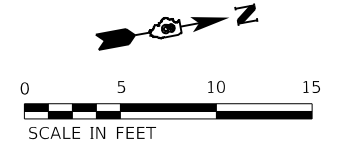


RADIUS POINT
STA. 101+55.55
OFF. 82.49' LT
RADIUS: 150.0'

RADIUS POINT
STA. 100+62.04
OFF. 28.00' LT
RADIUS: 40.0'



C.E. STATION 101+89.81



MODEL: Dwg.dwg
 FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_TownShip\Sheets\200713A4.dwg



USER NAME = efisher
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 1/14/2026

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



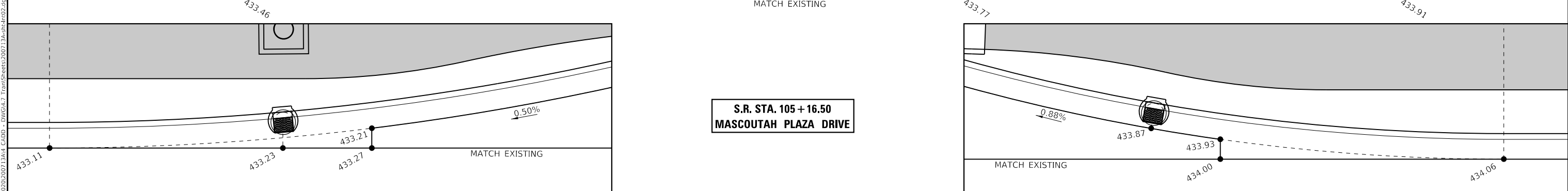
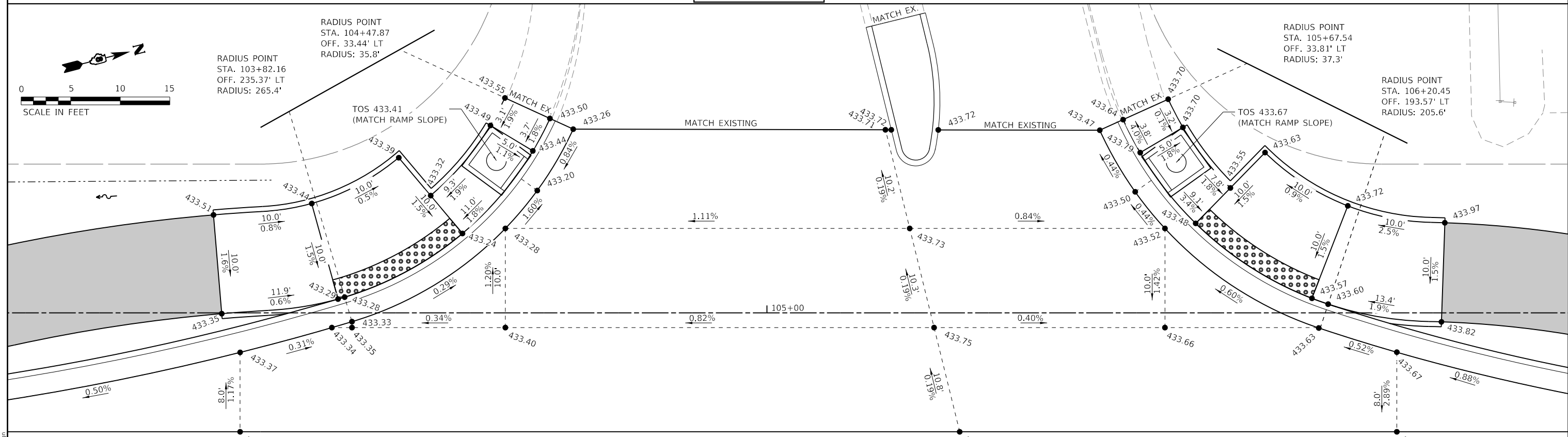
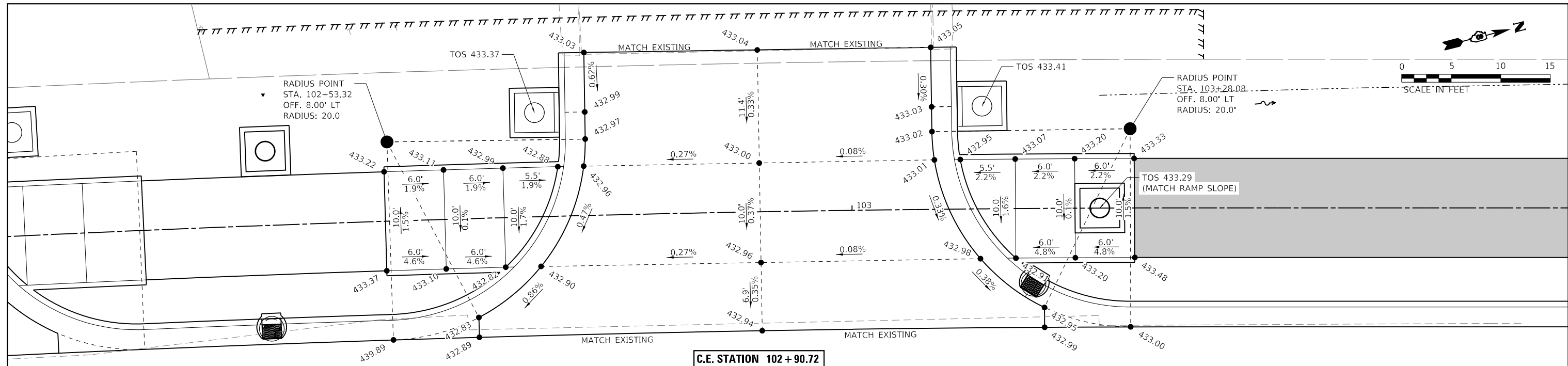
CITY OF MASCOUTAH

GEOMETRIC DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	39
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT



C.E. STATION 102 + 90.72

S.R. STA. 105 + 16.50
MASCOUTAH PLAZA DRIVE

MODEL: Dwg.dwg
 FILE NAME: P:\2020\20200713\14 CAD - DWG\47 Twp\Sheets\200713a-sh1-jr02.dwg



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -

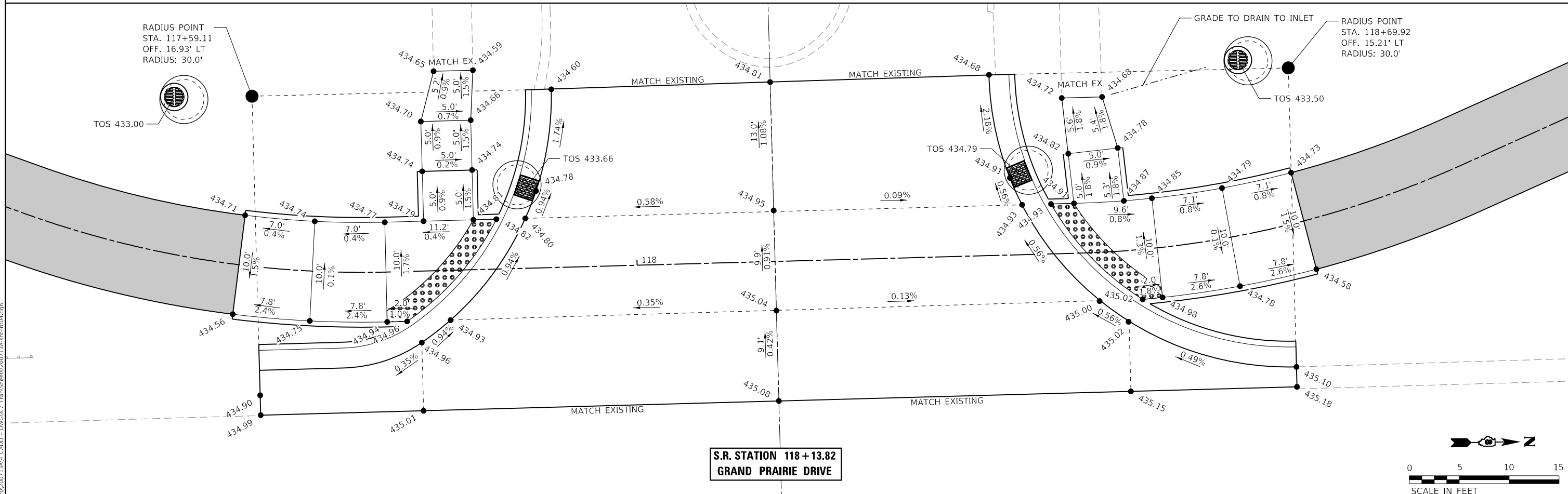
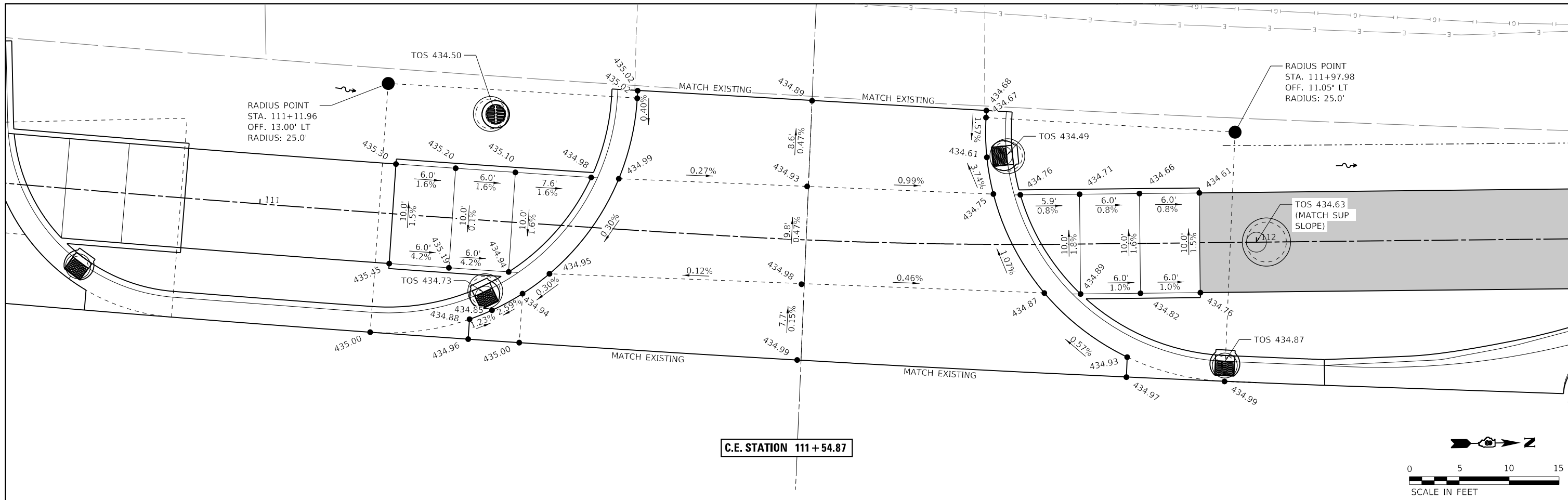


CITY OF MASCOUTAH

GEOMETRIC DETAILS

SCALE: 1"=5' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 40
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				



MODEL: Dwg.dgn
 FILE NAME: P:\2020\20200713A4_CADD - DWG\K47_TranSheets\200713A4.dgn



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = efisher
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 1/14/2026

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

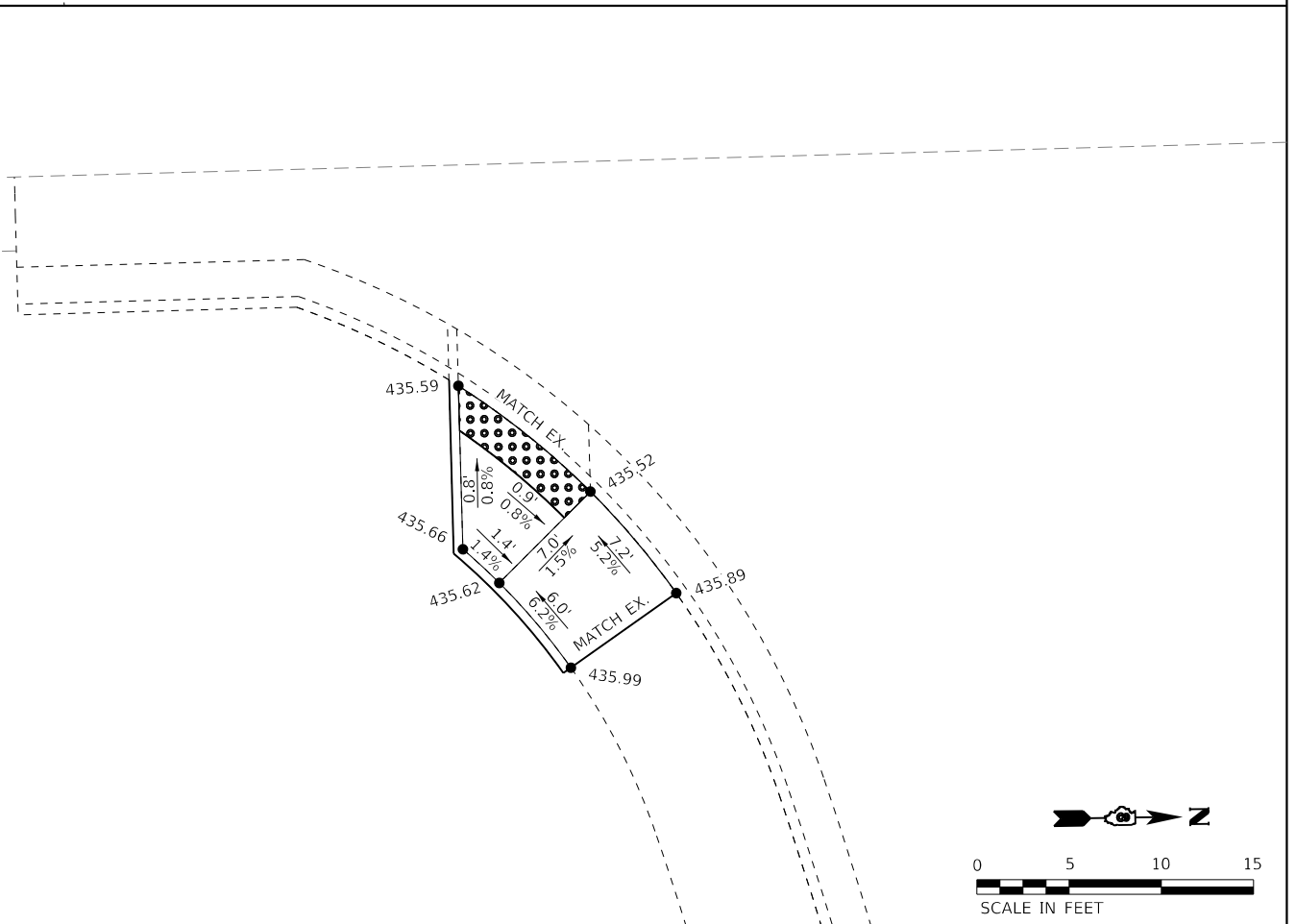
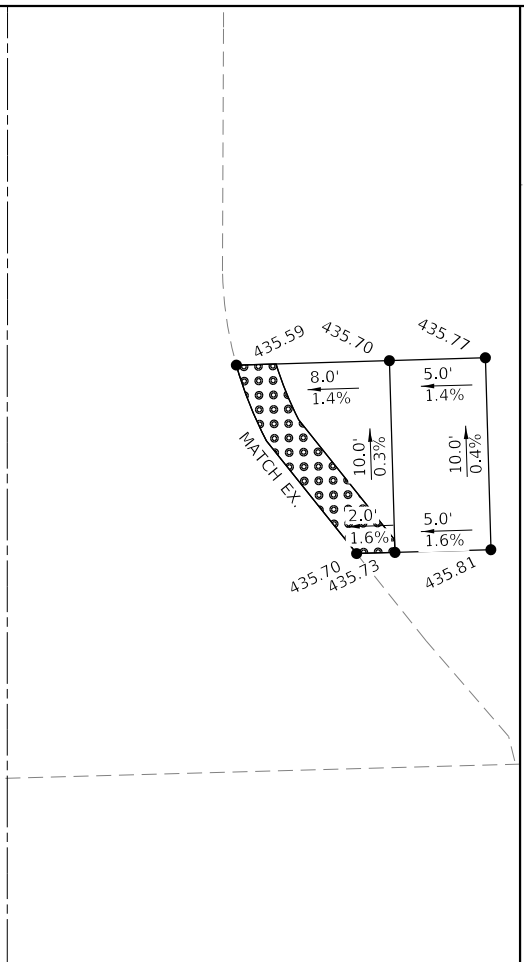
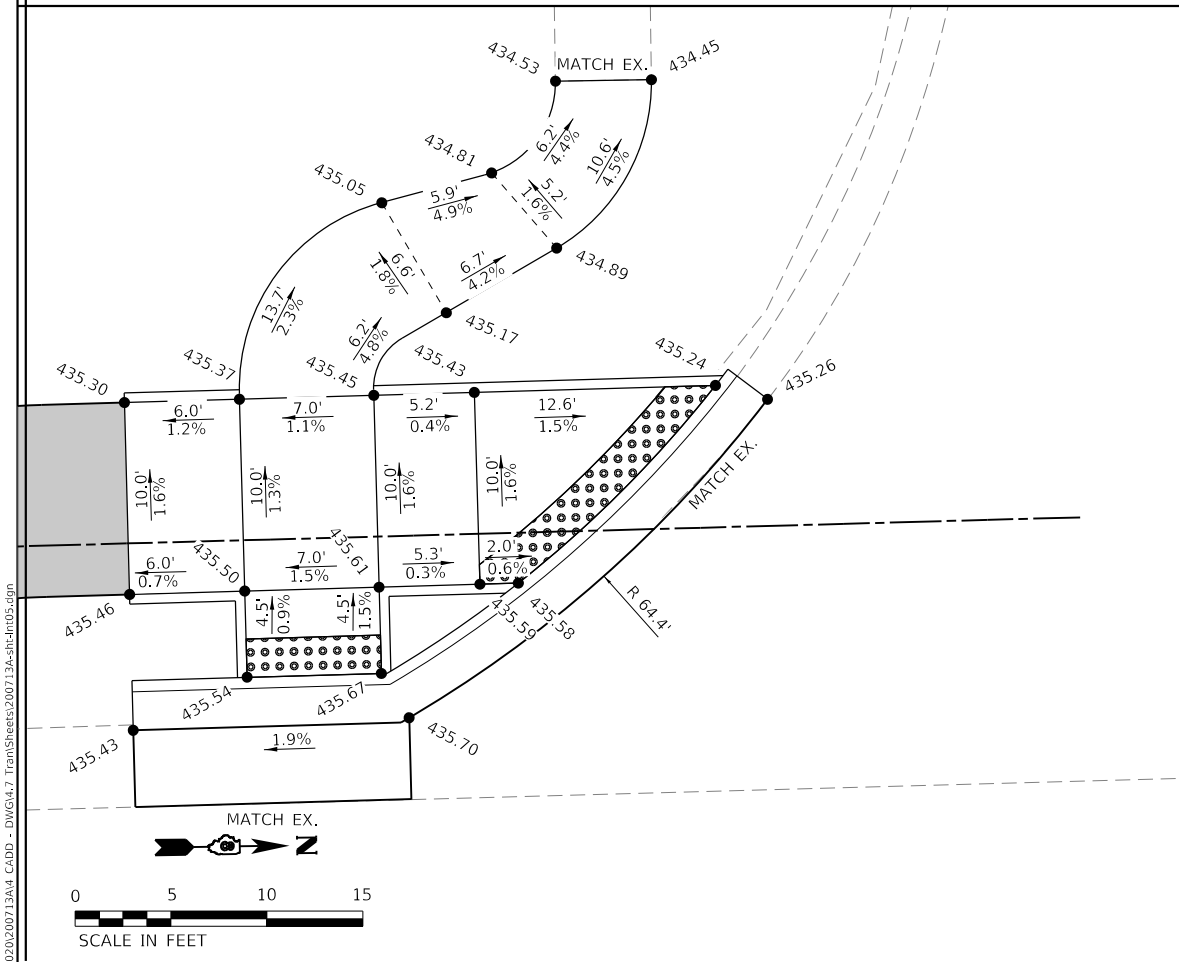
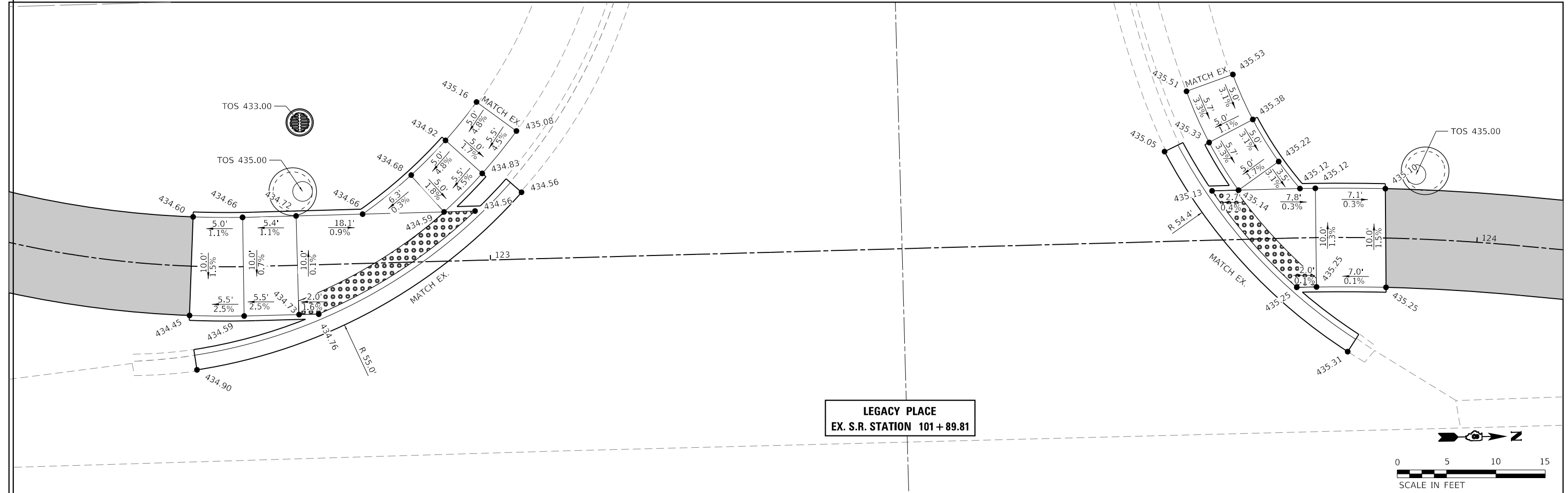


CITY OF MASCOUTAH
GEOMETRIC DETAILS

SCALE: 1"=5'
 SHEET 4 OF 5 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	42
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
 * 21-00024-02-BT & 23-00024-03-BT



TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
ILL. DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

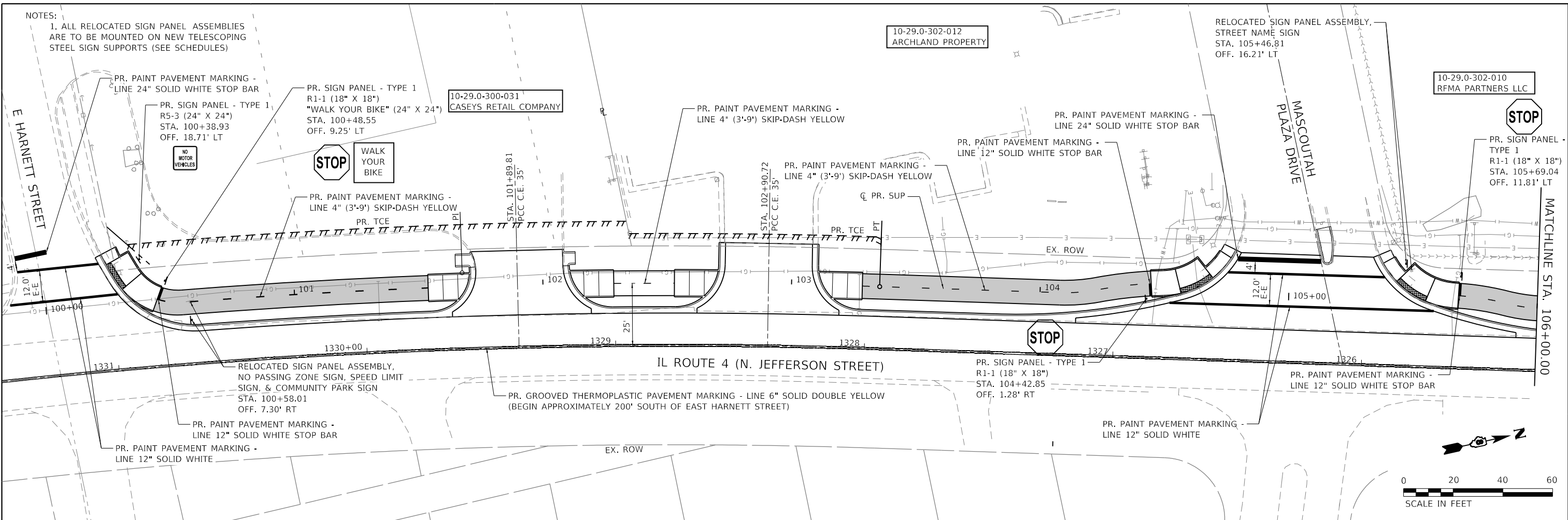
GEOMETRIC DETAILS

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

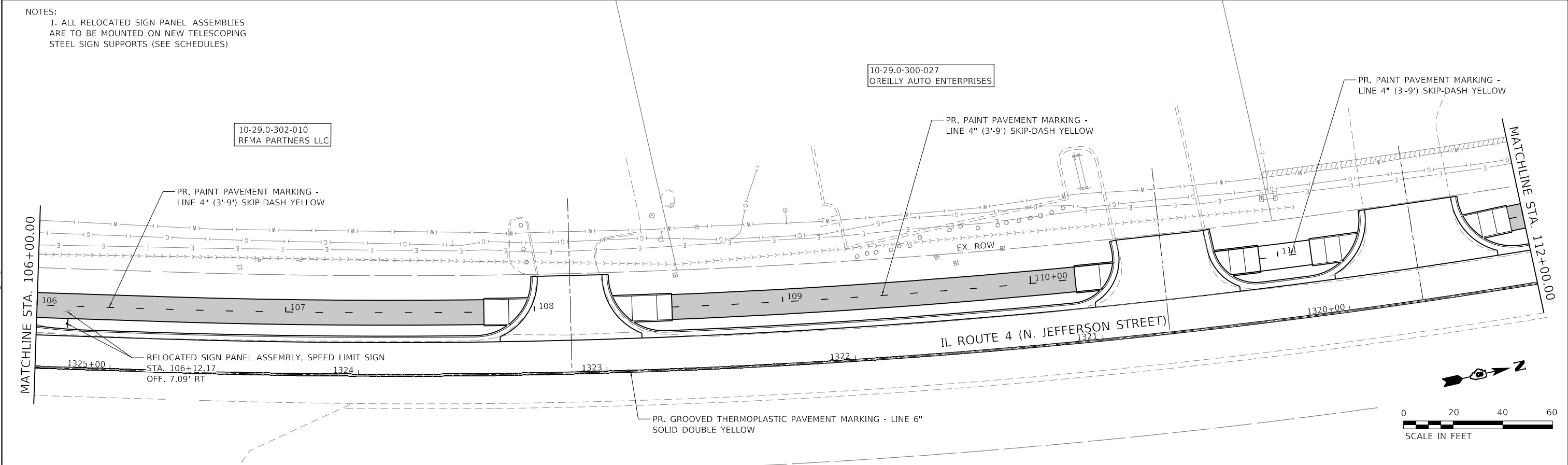
F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 43
			CONTRACT NO. 97878	

* 21-00024-02-BT & 23-00024-03-BT

NOTES:
1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)



NOTES:
1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)



MODEL: D:\p4\11
 FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_Traffic\Sheet\200713A-shr-RMK_01.dwg



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -

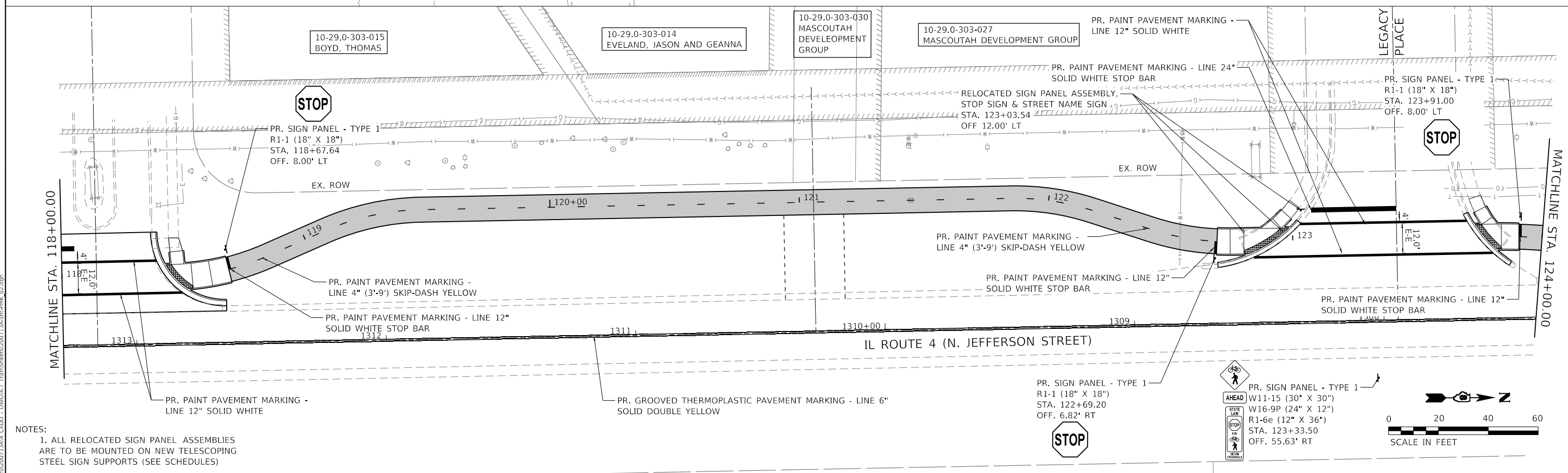
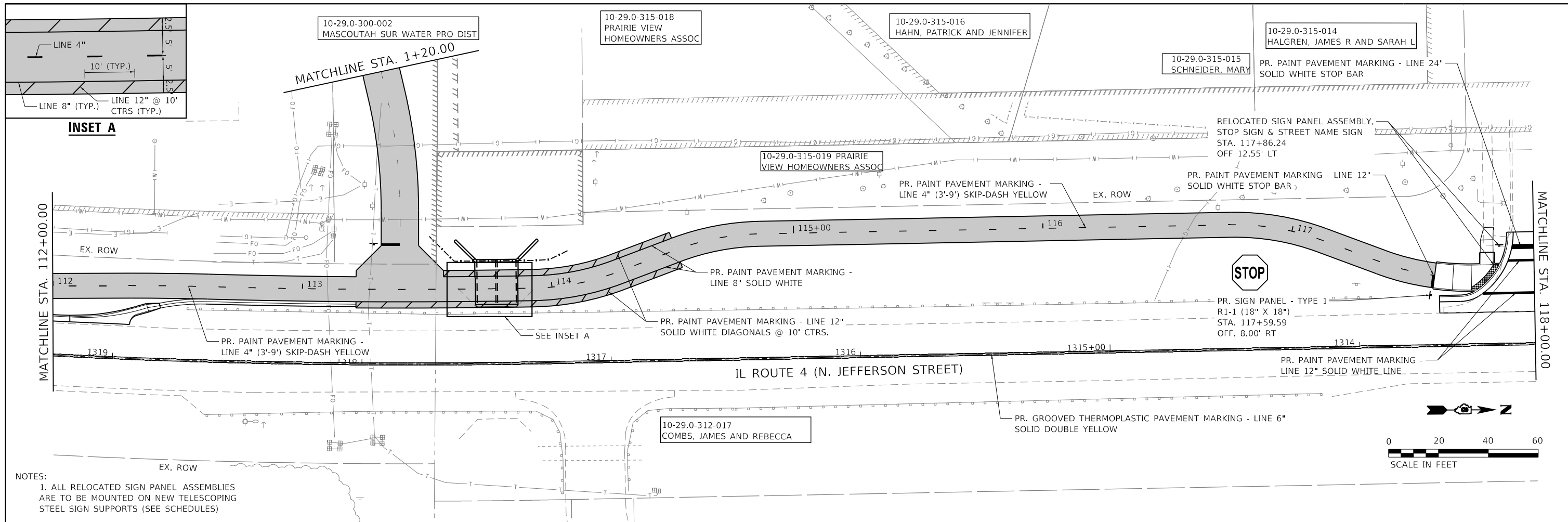


CITY OF MASCOUTAH

PAVEMENT MARKING AND SIGNAGE

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 100+00.00 TO STA. 112+00.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 44
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	
* 21-00024-02-BT & 23-00024-03-BT				



NOTES:
1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)

NOTES:
1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)

MODEL: Dwg.rvt
FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_TownShed\200713\sh-rmk_02.dwg



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOUTAH

PAVEMENT MARKING AND SIGNAGE SHEET

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 112+00.00 TO STA. 124+00.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 45
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	

* 21-00024-02-BT & 23-00024-03-BT

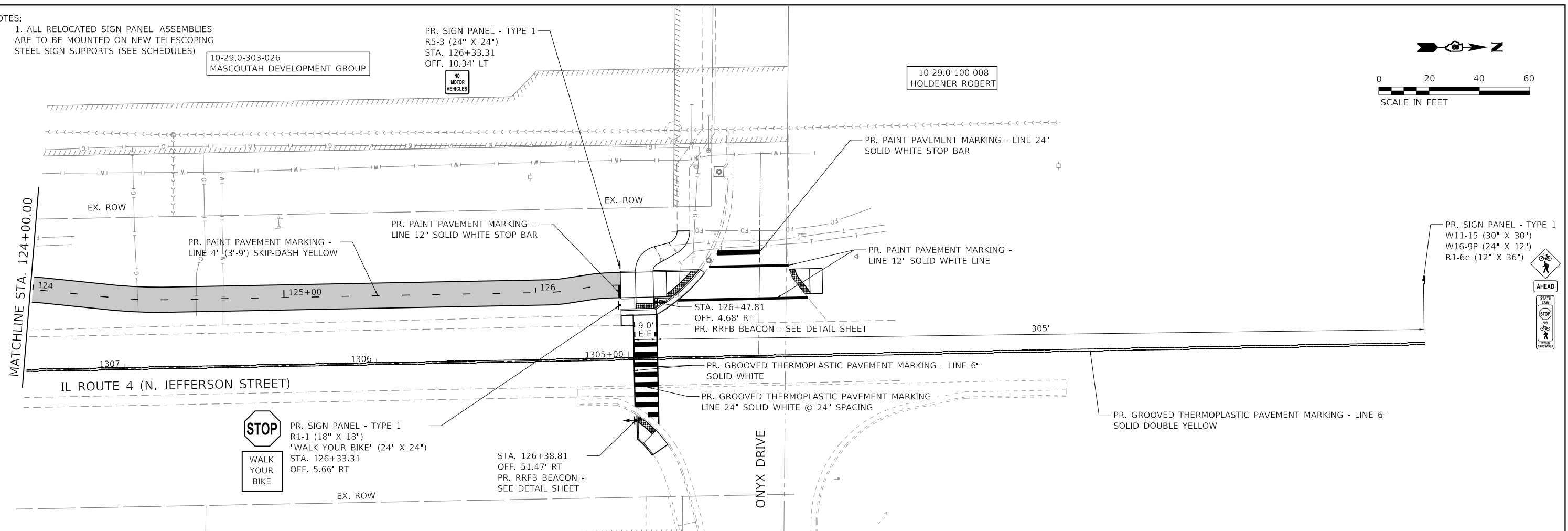
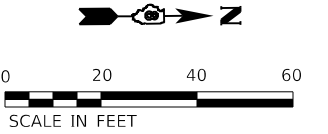
NOTES:

1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)

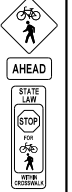
10-29.0-303-026
MASCOUTAH DEVELOPMENT GROUP

PR. SIGN PANEL - TYPE 1
R5-3 (24" X 24")
STA. 126+33.31
OFF. 10.34' LT

10-29.0-100-008
HOLDENER ROBERT



PR. SIGN PANEL - TYPE 1
W11-15 (30" X 30")
W16-9P (24" X 12")
R1-6e (12" X 36")



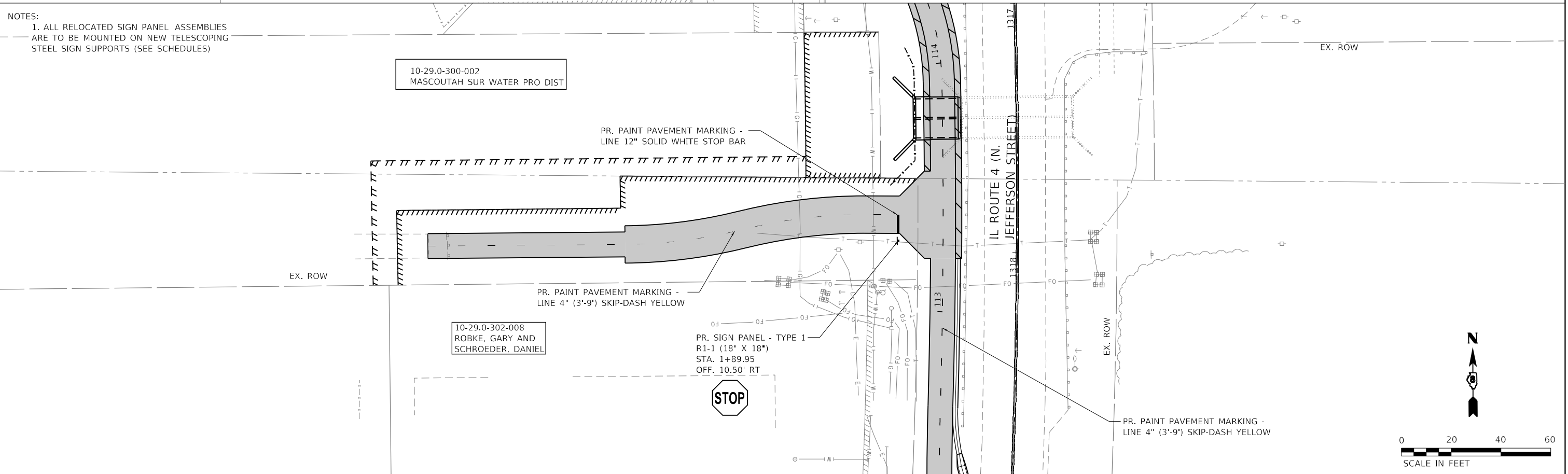
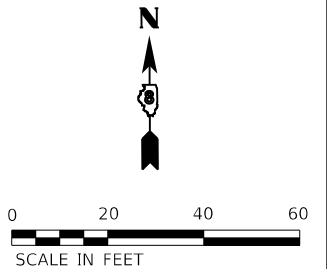
NOTES:

1. ALL RELOCATED SIGN PANEL ASSEMBLIES ARE TO BE MOUNTED ON NEW TELESCOPING STEEL SIGN SUPPORTS (SEE SCHEDULES)

10-29.0-300-002
MASCOUTAH SUR WATER PRO DIST

10-29.0-302-008
ROBKE, GARY AND
SCHROEDER, DANIEL

PR. SIGN PANEL - TYPE 1
R1-1 (18" X 18")
STA. 1+89.95
OFF. 10.50' RT



MODEL Dwg: 11
FILE NAME: P:\2020\20200713\A4_CADD - DWG\47_Traffic\Sheets\200713a-shp-rmk_03.dwg

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= efisher
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 1/14/2026

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



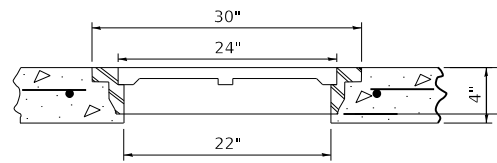
CITY OF MASCOUTAH

PAVEMENT MARKING AND SIGNAGE SHEET

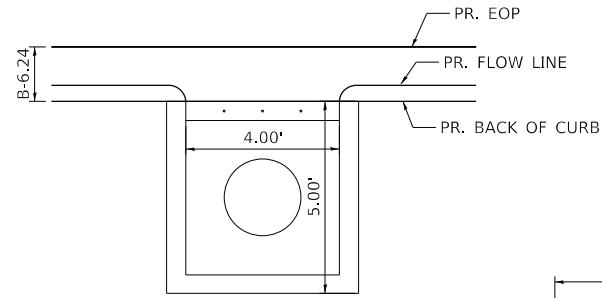
SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 100+00.00 TO STA. 200+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	46
CONTRACT NO. 97878				

* 21-00024-02-BT & 23-00024-03-BT

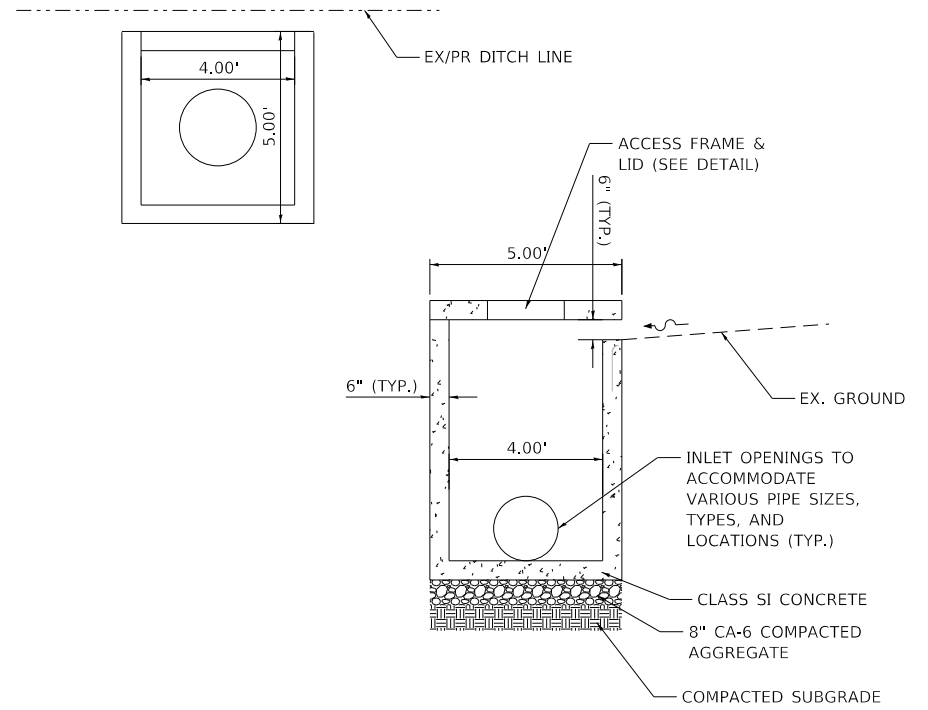


ACCESS FRAME AND LID



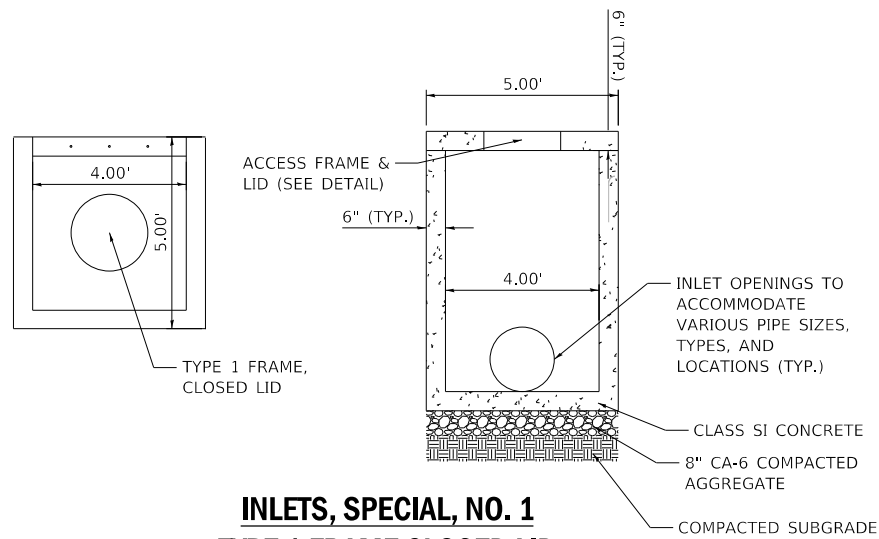
INLETS, SPECIAL, NO. 2

(1 OPENING ADJACENT TO CURB/GUTTER)



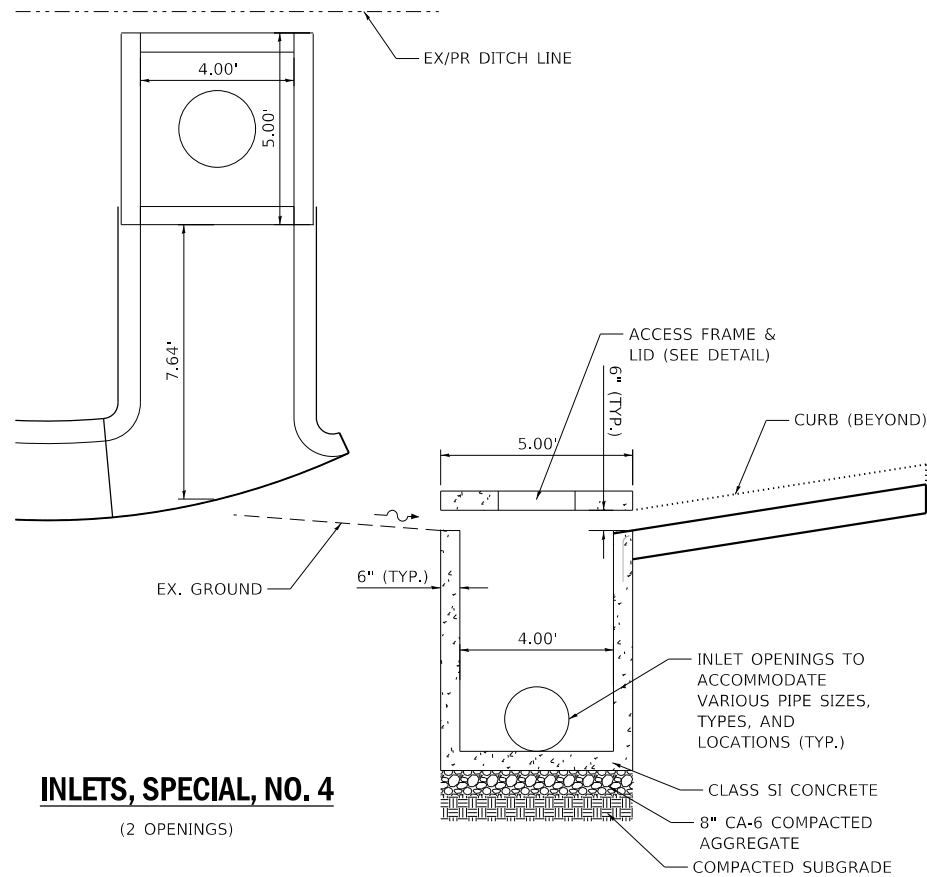
INLETS, SPECIAL, NO. 3

(1 OPENING ADJACENT TO EARTH)



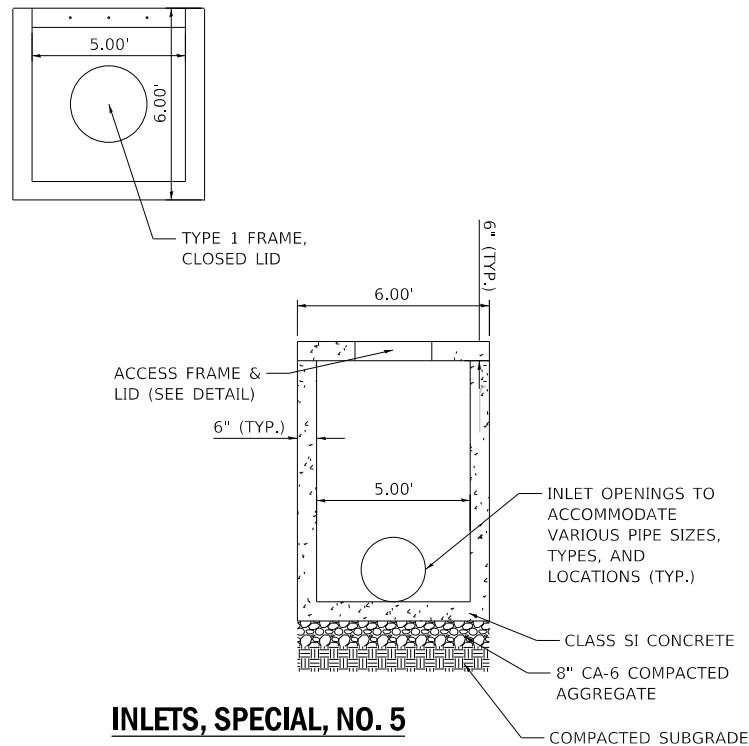
**INLETS, SPECIAL, NO. 1
TYPE 1 FRAME CLOSED LID**

(NO OPENINGS)



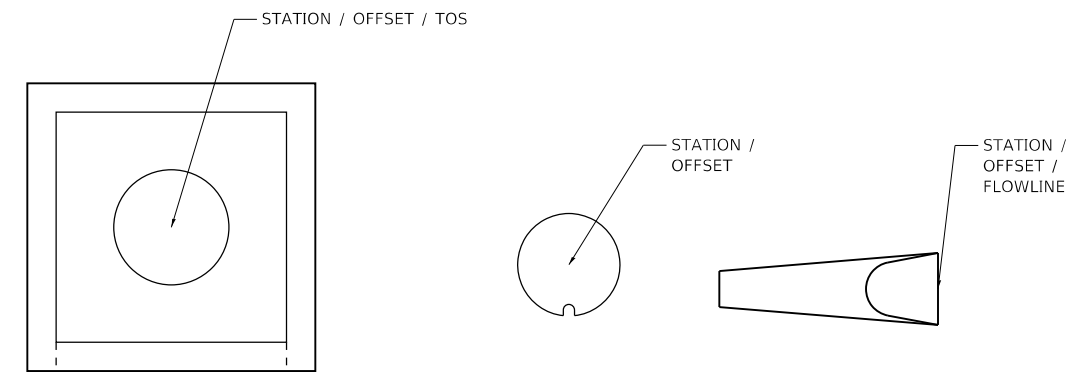
INLETS, SPECIAL, NO. 4

(2 OPENINGS)



**INLETS, SPECIAL, NO. 5
TYPE 1 FRAME CLOSED LID**

(NO OPENINGS)



INLETS, SPECIAL, NO. 1-5

TOS = TOP OF LID



**TYPE 3 FRAME
AND GRATE**

TOS = GUTTER FLOW LINE

**TYPE 10 FRAME
AND GRATE**

TOS = GUTTER FLOW LINE

TYPE 8 GRATE

TOS = DITCH FLOW LINE

**TYPE 24 FRAME
AND GRATE**

TOS = GUTTER FLOW LINE

MODEL: D:\dwg\11... FILE NAME: P:\2020\20200713\14 CAD - DWG\K47 Tmsh\Sheet200713A-shd.dwg



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



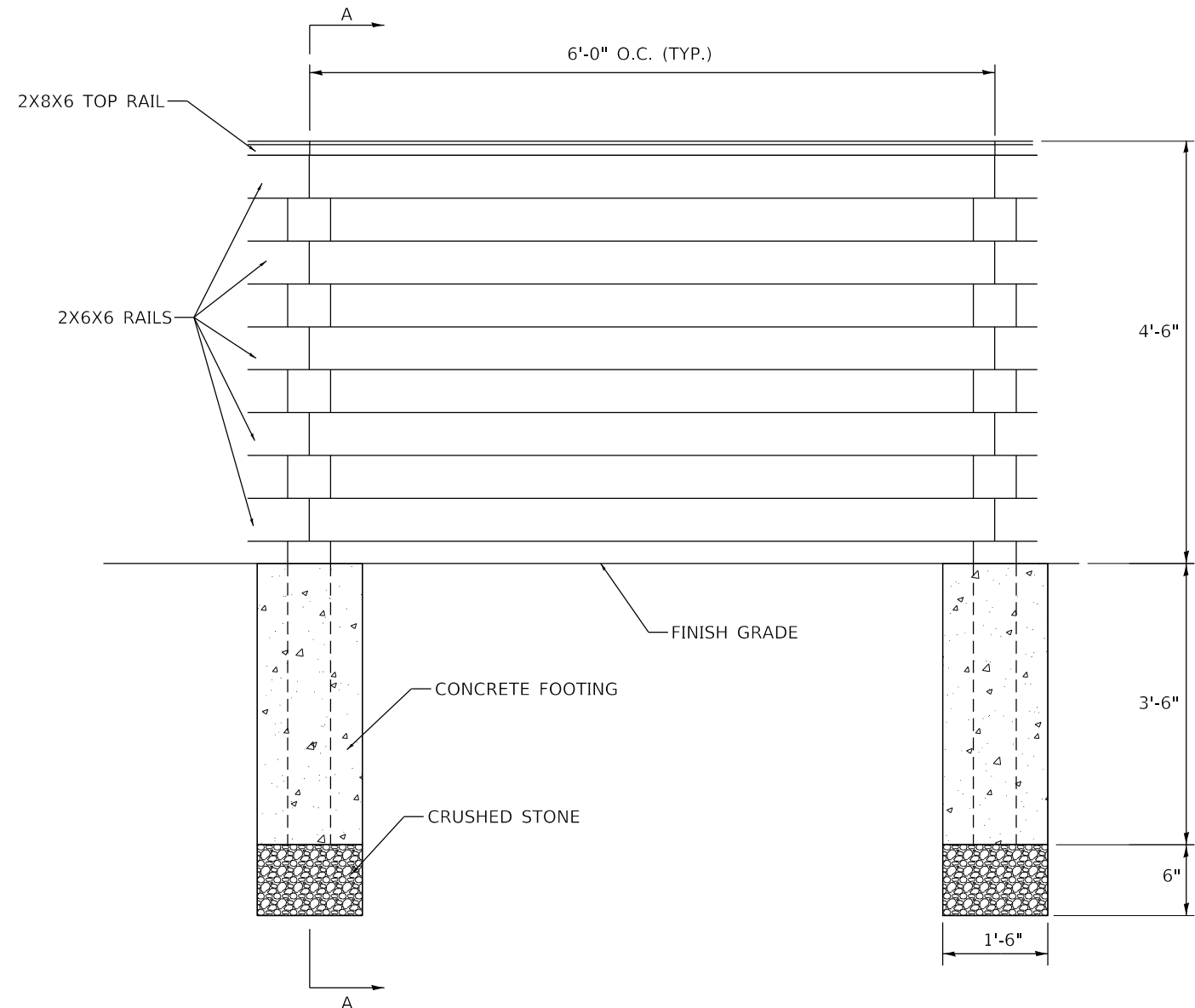
CITY OF MASCOUTAH

MISCELLANEOUS DETAILS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	47
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
* 21-00024-02-BT & 23-00024-03-BT

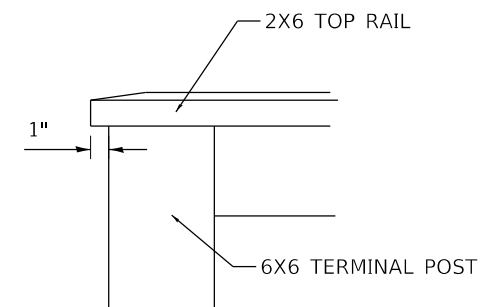


ELEVATION

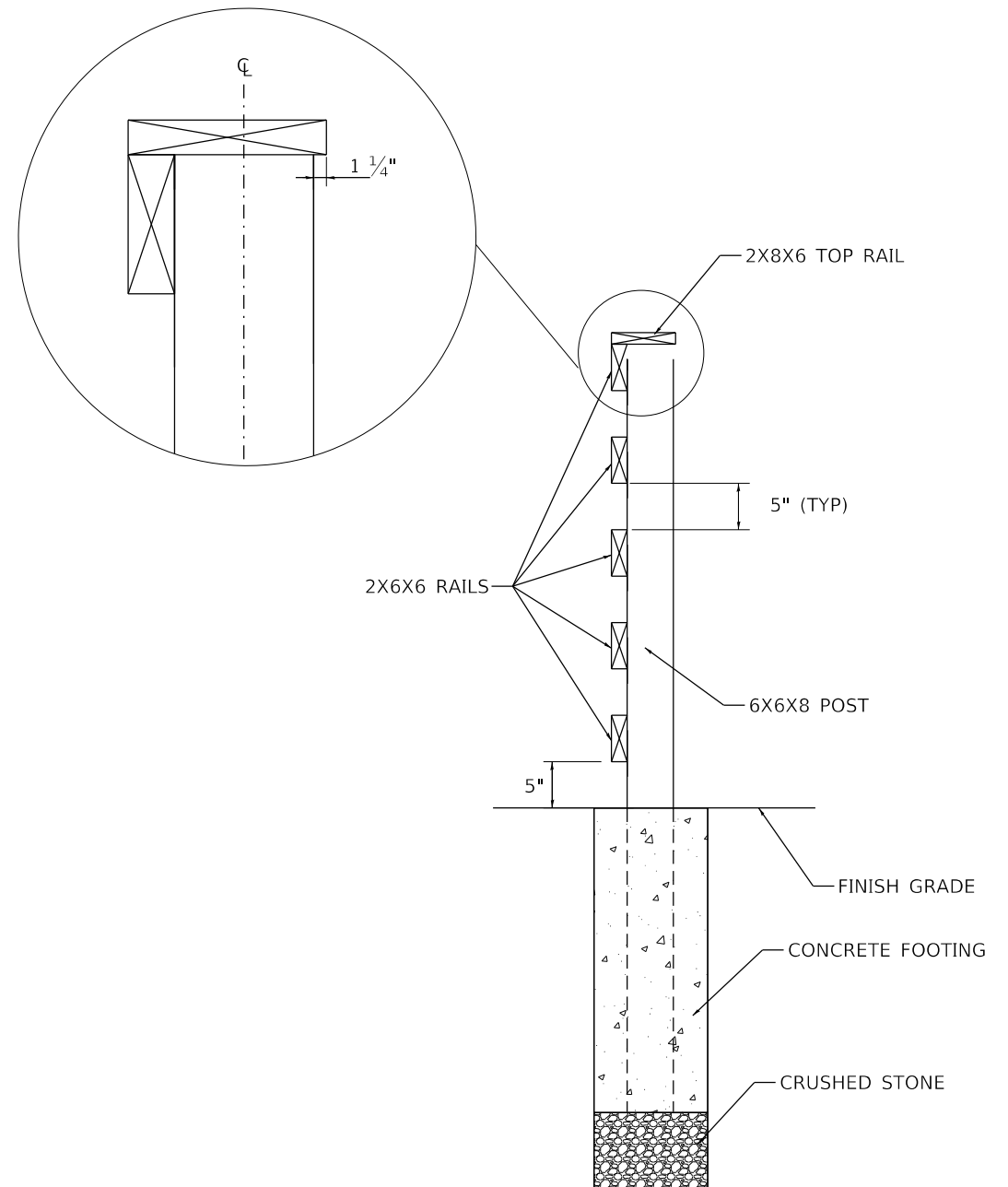
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE LAYOUT WITH ENGINEER PRIOR TO INSTALLATION.
2. ALL LUMBER SHALL BE PRESSURE TREATED NO. 1 SOUTHERN PINE.
3. ALL SCREWS SHALL BE #10 X 3".
4. ATTACH RAILS WITH 3 STAINLESS STEEL SCREWS AT EACH POST.

WOOD POST AND RAIL FENCE



TERMINAL POST ELEVATION



SECTION A-A

MODEL: D:\dgn\...
 FILE NAME: P:\2020\20200713\A4_CADD - DWG\K47_TerminalSheets200713a-sh-dtl-woodrail.dgn



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



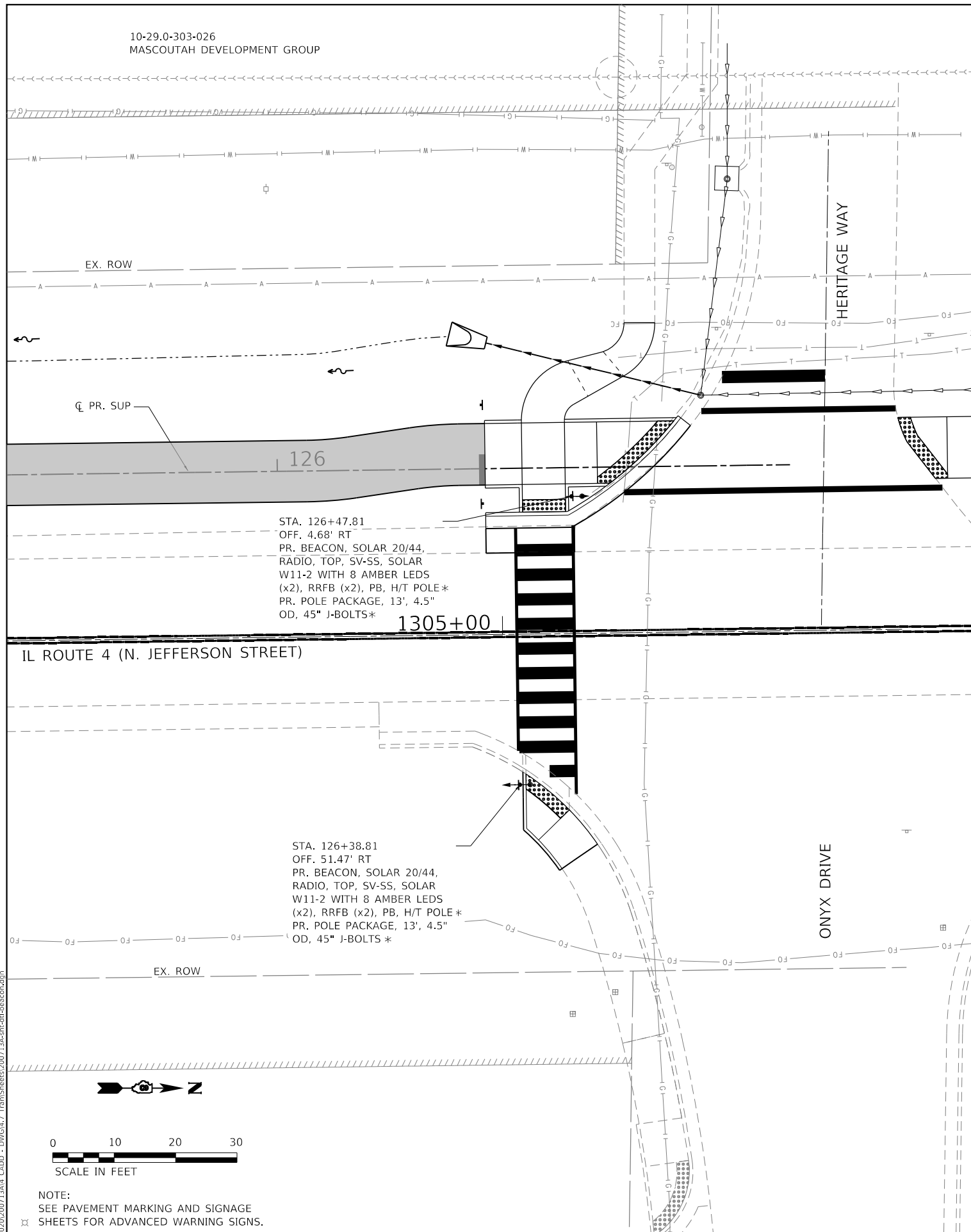
CITY OF MASCOUTAH

MISCELLANEOUS DETAILS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

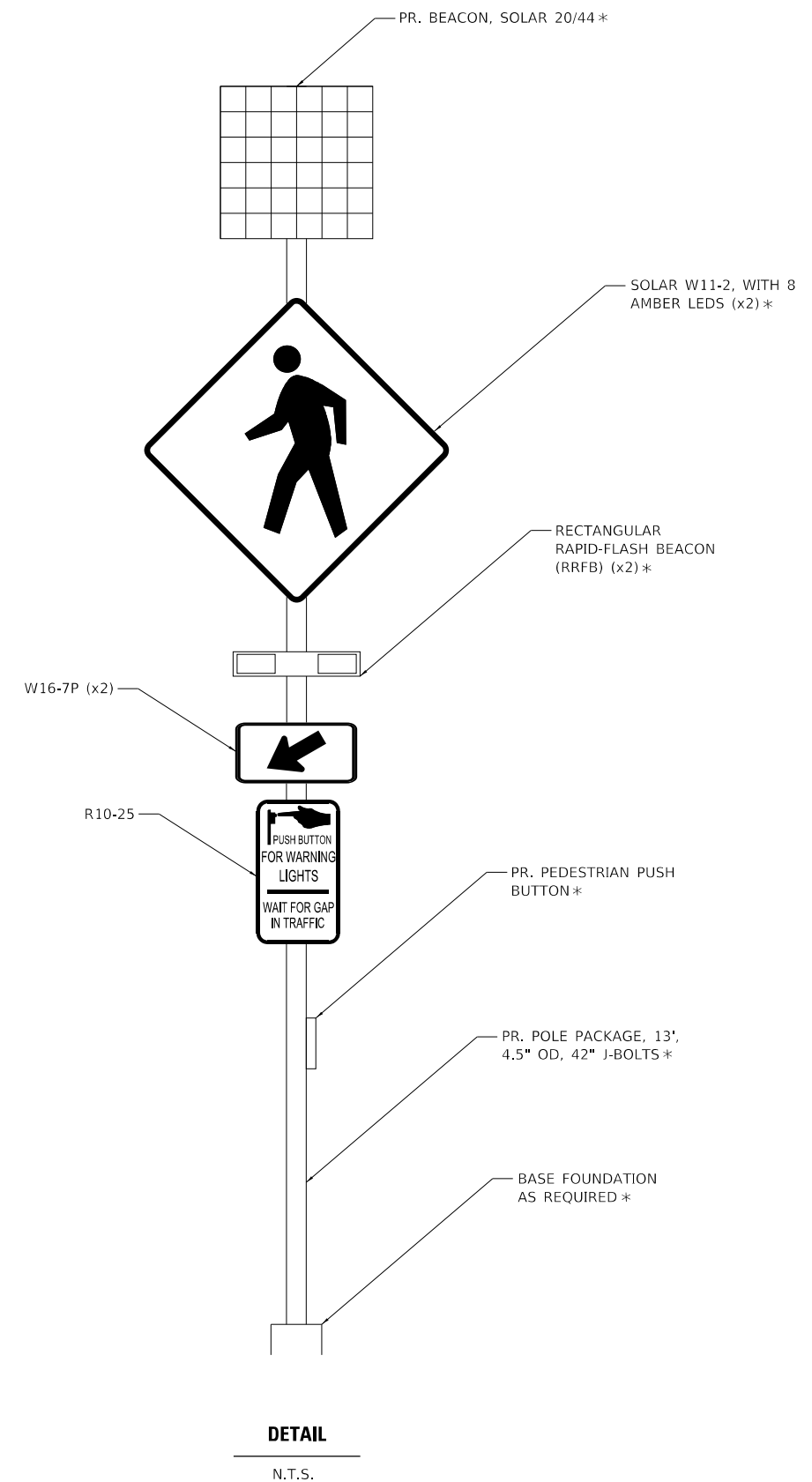
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	48
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT
 * 21-00024-02-BT & 23-00024-03-BT



STA. 126+47.81
OFF. 4.68' RT
PR. BEACON, SOLAR 20/44,
RADIO, TOP, SV-SS, SOLAR
W11-2 WITH 8 AMBER LEDS
(x2), RRFB (x2), PB, H/T POLE*
PR. POLE PACKAGE, 13', 4.5"
OD, 45" J-BOLTS*

STA. 126+38.81
OFF. 51.47' RT
PR. BEACON, SOLAR 20/44,
RADIO, TOP, SV-SS, SOLAR
W11-2 WITH 8 AMBER LEDS
(x2), RRFB (x2), PB, H/T POLE*
PR. POLE PACKAGE, 13', 4.5"
OD, 45" J-BOLTS*



DETAIL
N.T.S.
* INCLUDED IN THE COST OF SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE). SEE SPECIAL PROVISIONS.

MODEL: D:\p1\10-29.0-303-026\10-29.0-303-026.dwg
FILE NAME: P:\2020\20200713\10-29.0-303-026.dwg
DATE: 1/14/2026

NOTE:
SEE PAVEMENT MARKING AND SIGNAGE
SHEETS FOR ADVANCED WARNING SIGNS.



USER NAME = efisher
DESIGNED -
DRAWN -
CHECKED -
DATE -
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 1/14/2026

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



CITY OF MASCOUTAH

FLASHING BEACON DETAIL

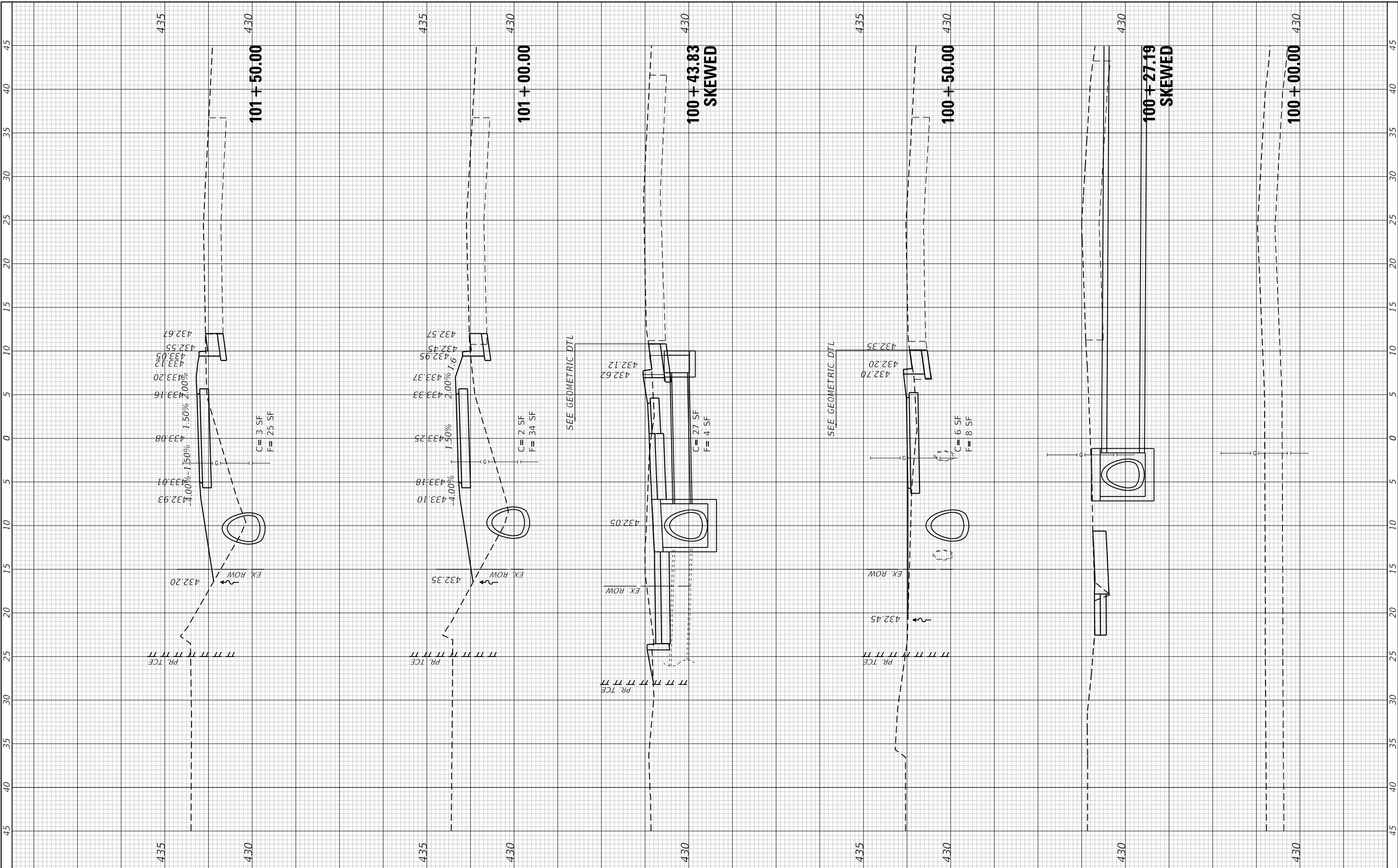
SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	49
CONTRACT NO. 97878				

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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: D:\enr MODEL: P:\2020\2020\200713\4 CAD - DWG\4.7 Trans\Sheet200713a.dwg
 TWM, INC. LICENSE NO: 184-001220



CITY OF MASCOUTAH

**CROSS SECTIONS
IL ROUTE 4 SUP**

SCALE: 1"=10' SHEET 1 OF 13 SHEETS STA. 100+00.00 TO STA. 101+50.00

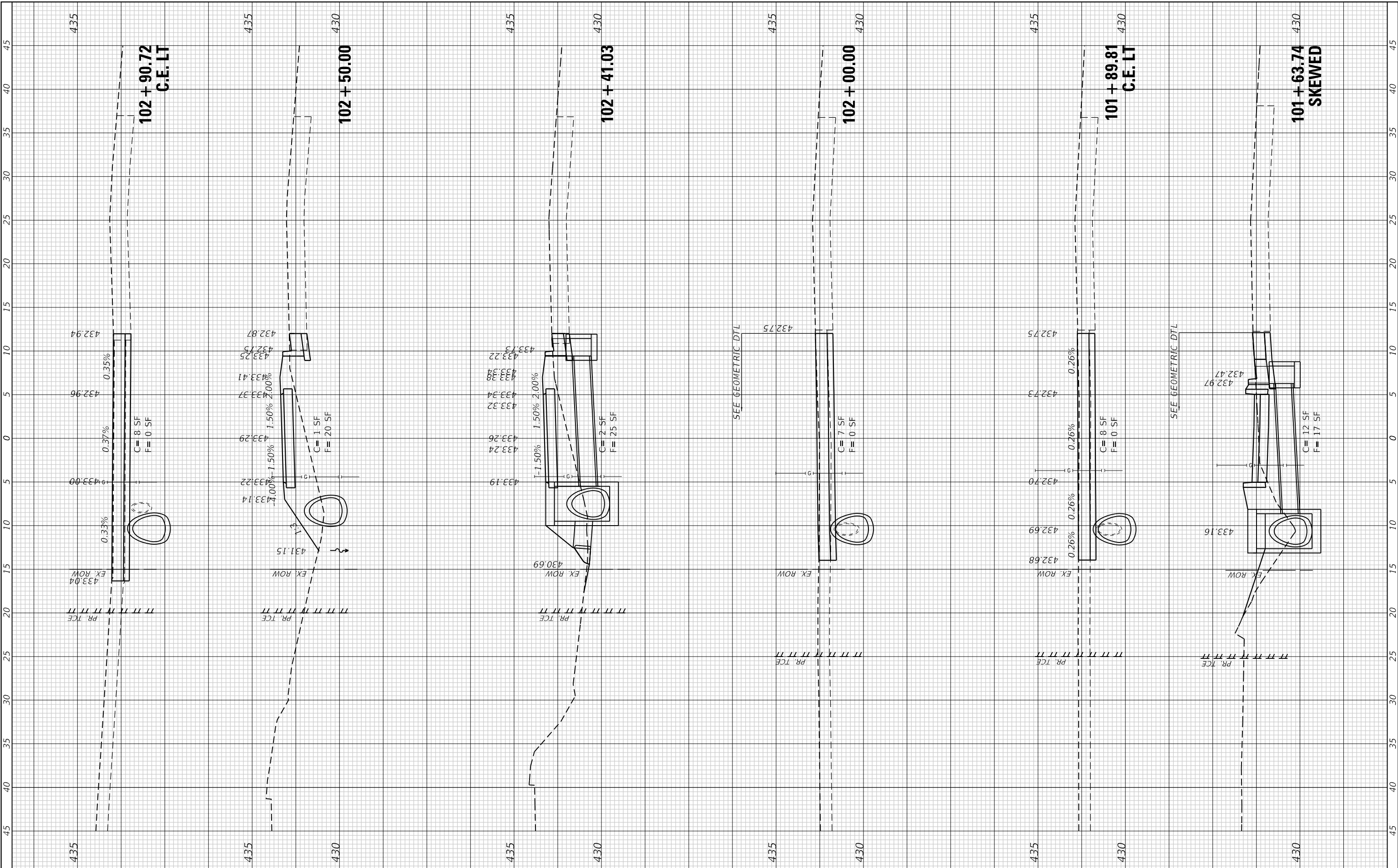
F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 50
CONTRACT NO. 97878				

ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSeres200713a-sh-288c.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME	= efisher
PLOT SCALE	= 10.0000 ' / in.
PLOT DATE	= 1/14/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



CITY OF MASCOU TAH

**CROSS SECTIONS
 IL ROUTE 4 SUP**

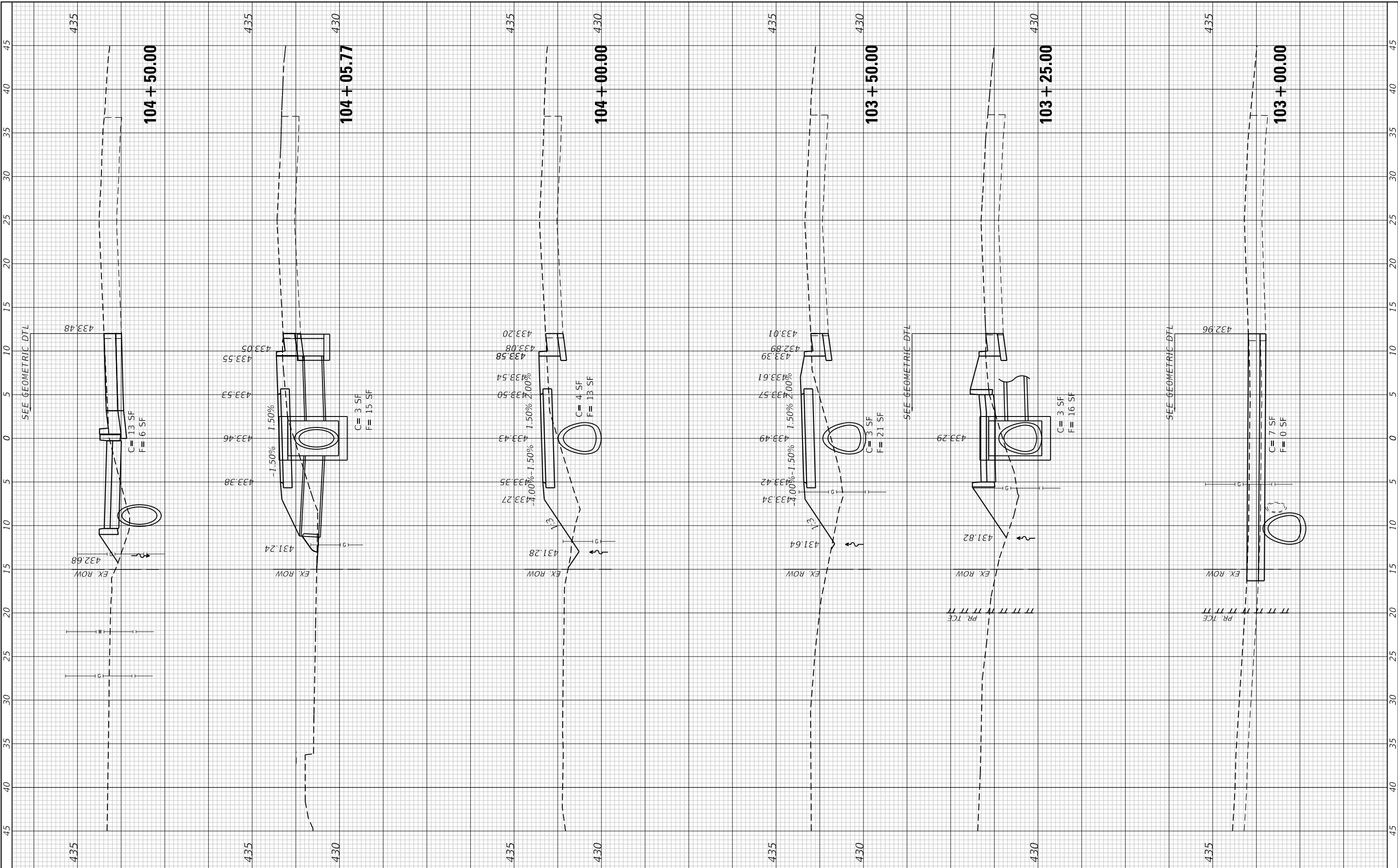
SCALE: 1"=10' SHEET 2 OF 13 SHEETS STA. 101+63.74 TO STA. 102+90.72

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	51
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSheets\200713a-sh-288c.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = efisher
 PLOT SCALE = 10.0000" / 1'
 PLOT DATE = 1/14/2026

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -



CITY OF MASCOU TAH

**CROSS SECTIONS
 IL ROUTE 4 SUP**

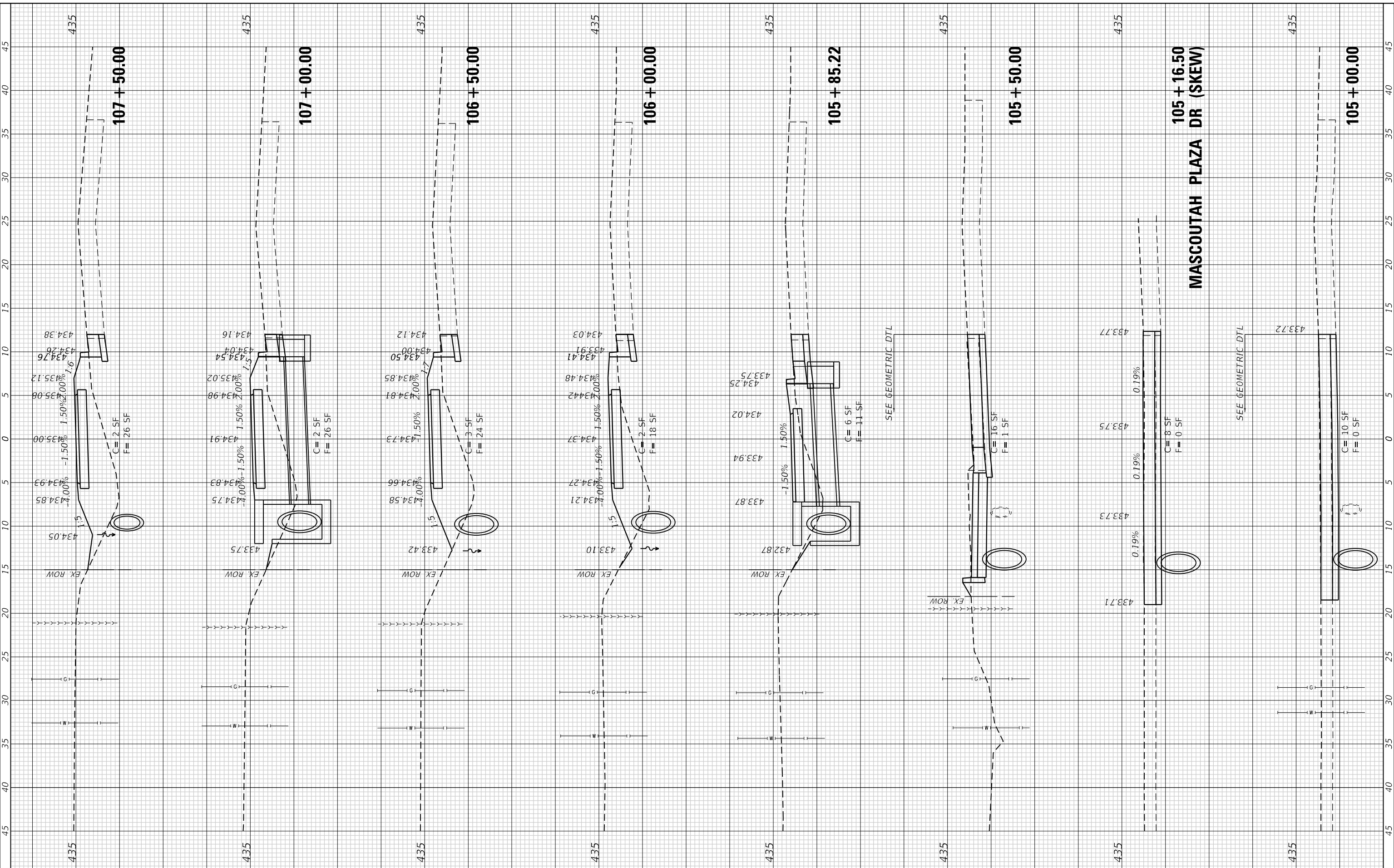
SCALE: 1"=10' SHEET 3 OF 13 SHEETS STA. 103+00.00 TO STA. 104+50.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 52
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSheets\200713a\sh-238c.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME	= efisher
PLOT SCALE	= 10.0000' / in.
PLOT DATE	= 1/14/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



CITY OF MASCOUTAH

SCALE: 1"=10' SHEET 4 OF 13 SHEETS STA. 105+00.00 TO STA. 107+50.00

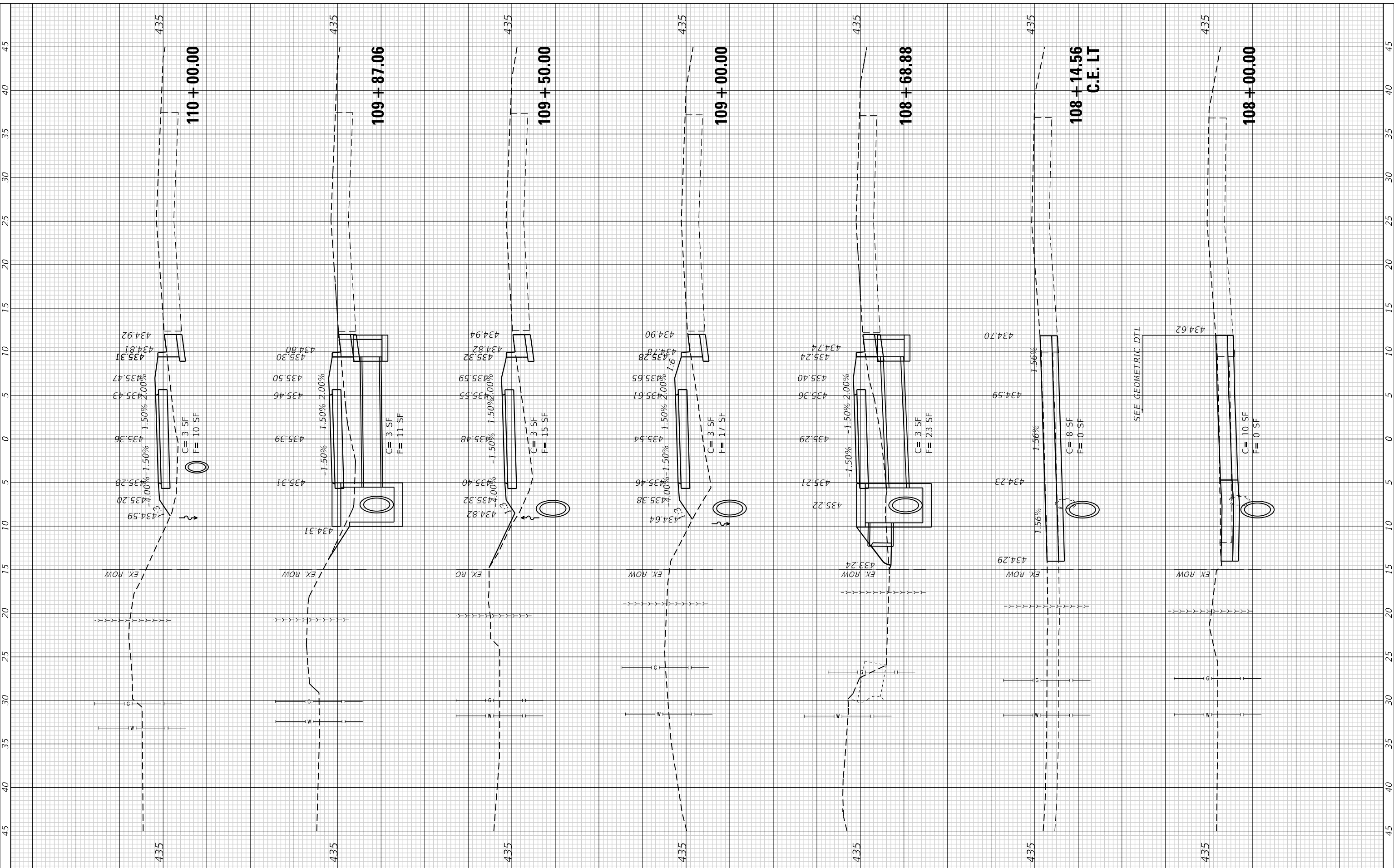
**CROSS SECTIONS
 IL ROUTE 4 SUP**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	53
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransStrees200713a.mxd
 No. 184-001220



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	efisher
DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	



CITY OF MASCOU TAH

**CROSS SECTIONS
 IL ROUTE 4 SUP**

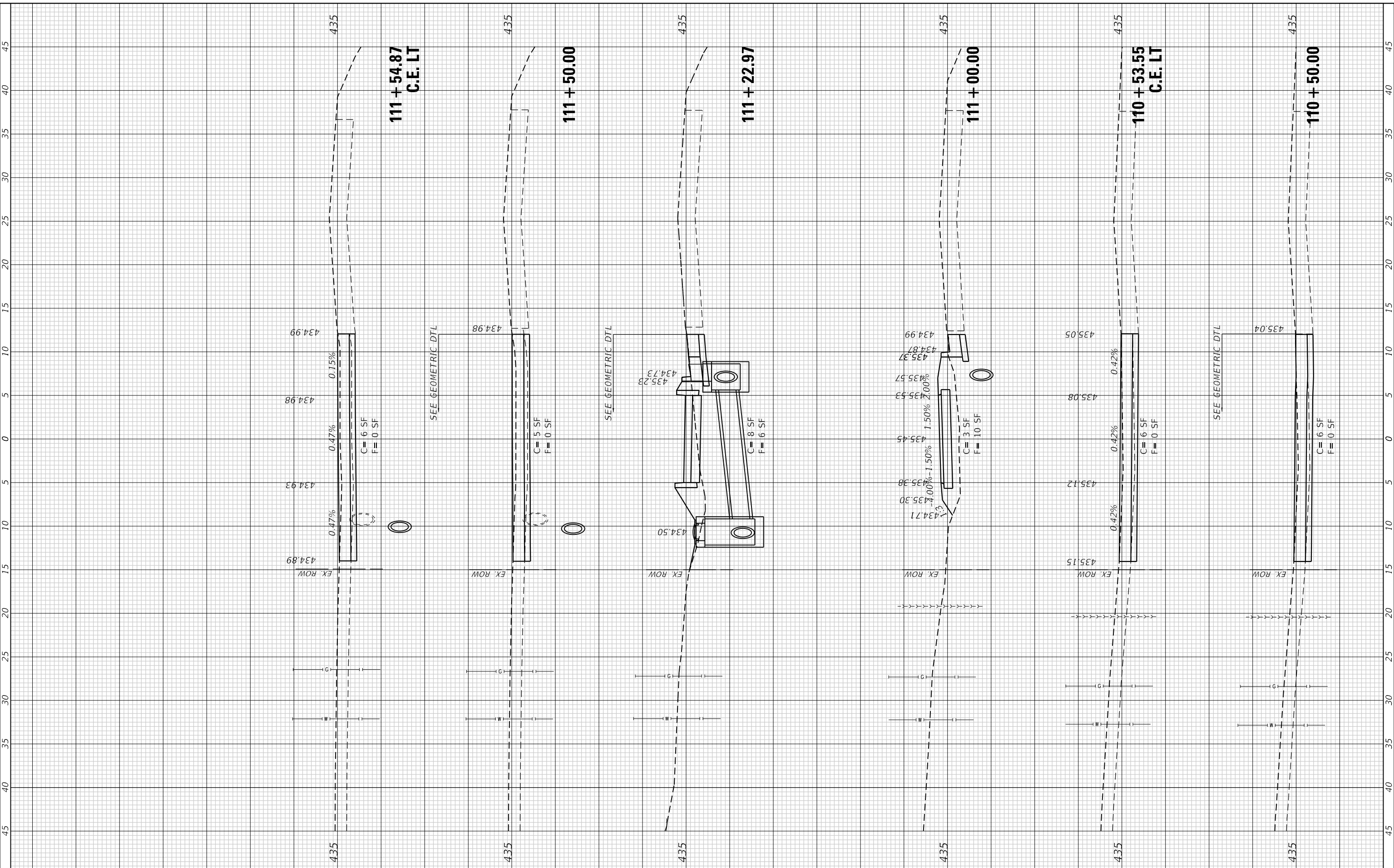
SCALE: 1"=10' SHEET 5 OF 13 SHEETS STA. 108+00.00 TO STA. 110+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	54
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransShts\200713a-sh-238c.dgn



TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO.:
184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000 ' / in.
PLOT DATE =	1/14/2026

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	



CITY OF MASCOU TAH

CROSS SECTIONS
IL ROUTE 4 SUP

SCALE: 1"=10' SHEET 6 OF 13 SHEETS STA. 110+50.00 TO STA. 111+54.87

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	55
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
FILE NAME: P:\2020\20200713\4 CAD - DWG\4.7 Trans\Sheets\200713\4sh-248c.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = efisher
PLOT SCALE = 10.0000' / in.
PLOT DATE = 1/14/2026

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

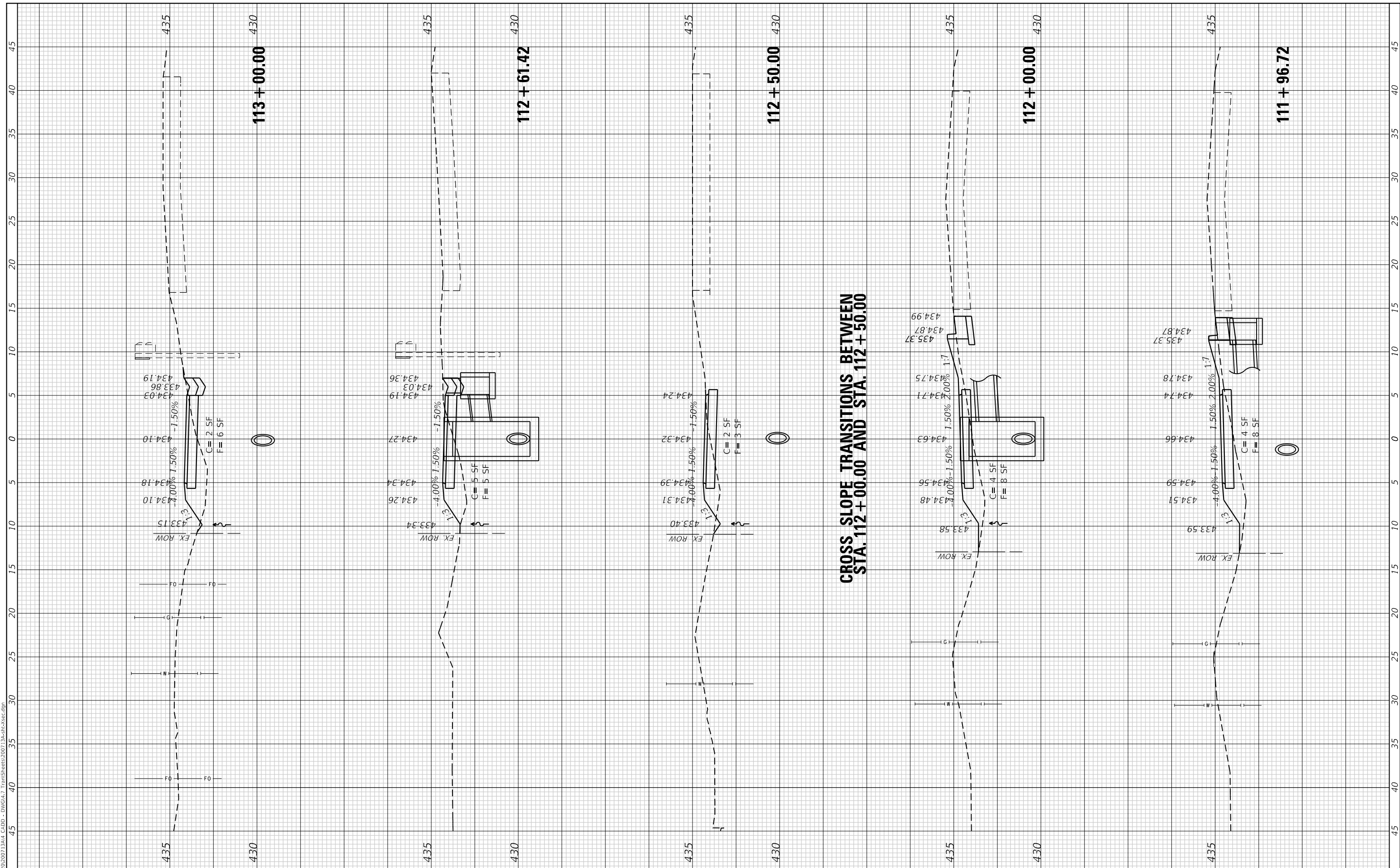


CITY OF MASCOU TAH

**CROSS SECTIONS
IL ROUTE 4 SUP**

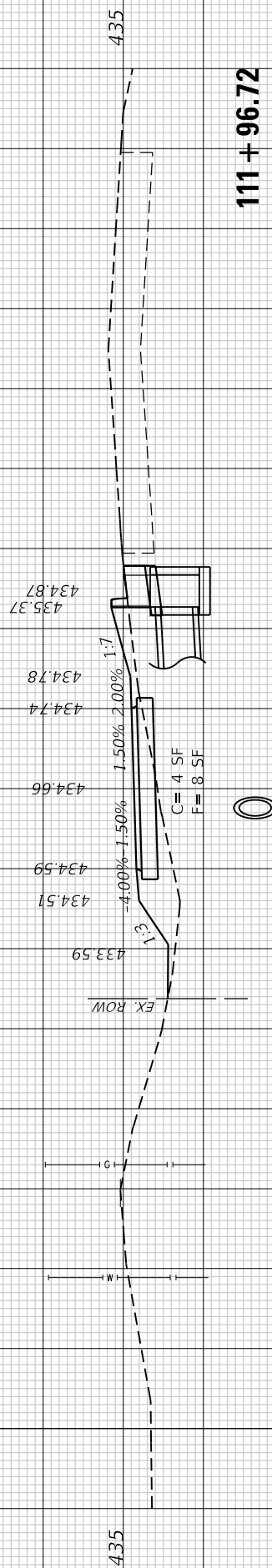
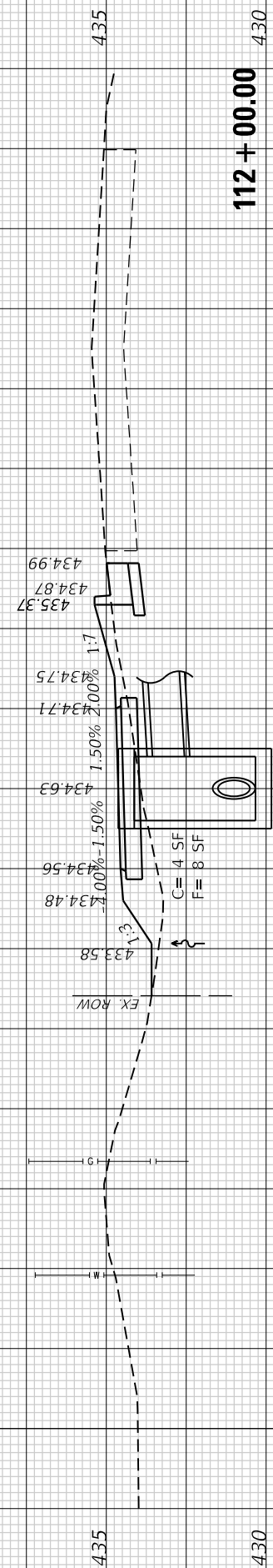
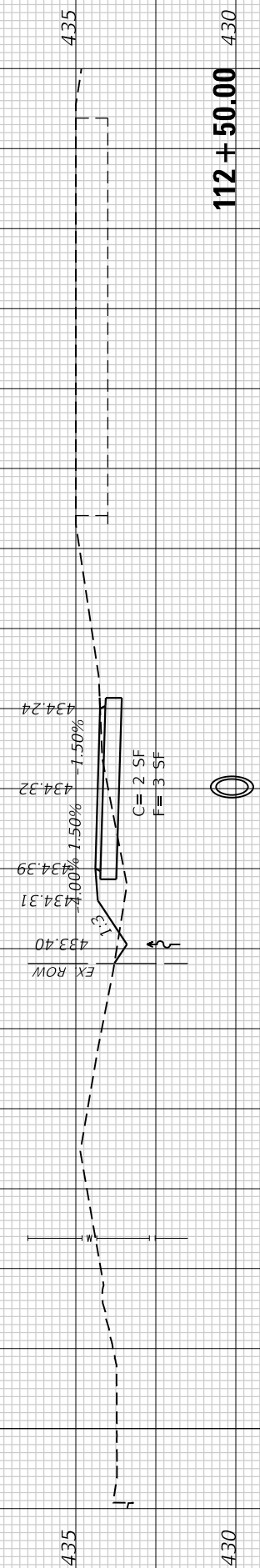
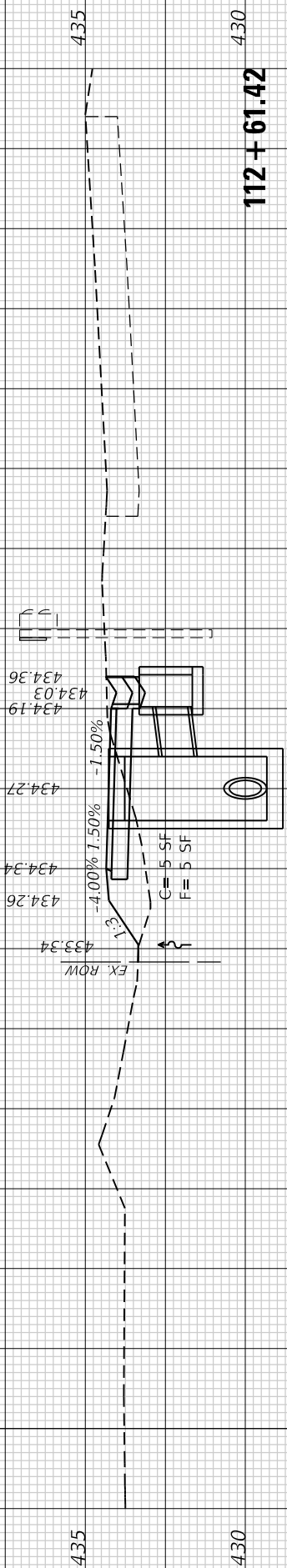
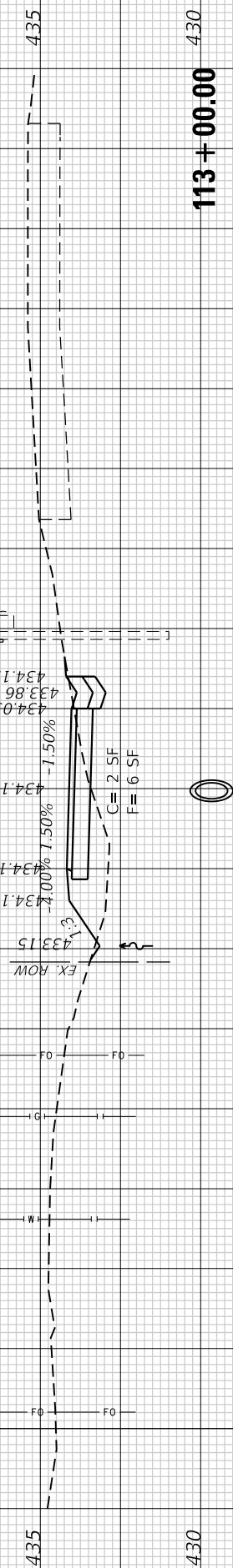
SCALE: 1"=10' SHEET 7 OF 13 SHEETS STA. 111+96.72 TO STA. 113+00.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 56
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				



45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45

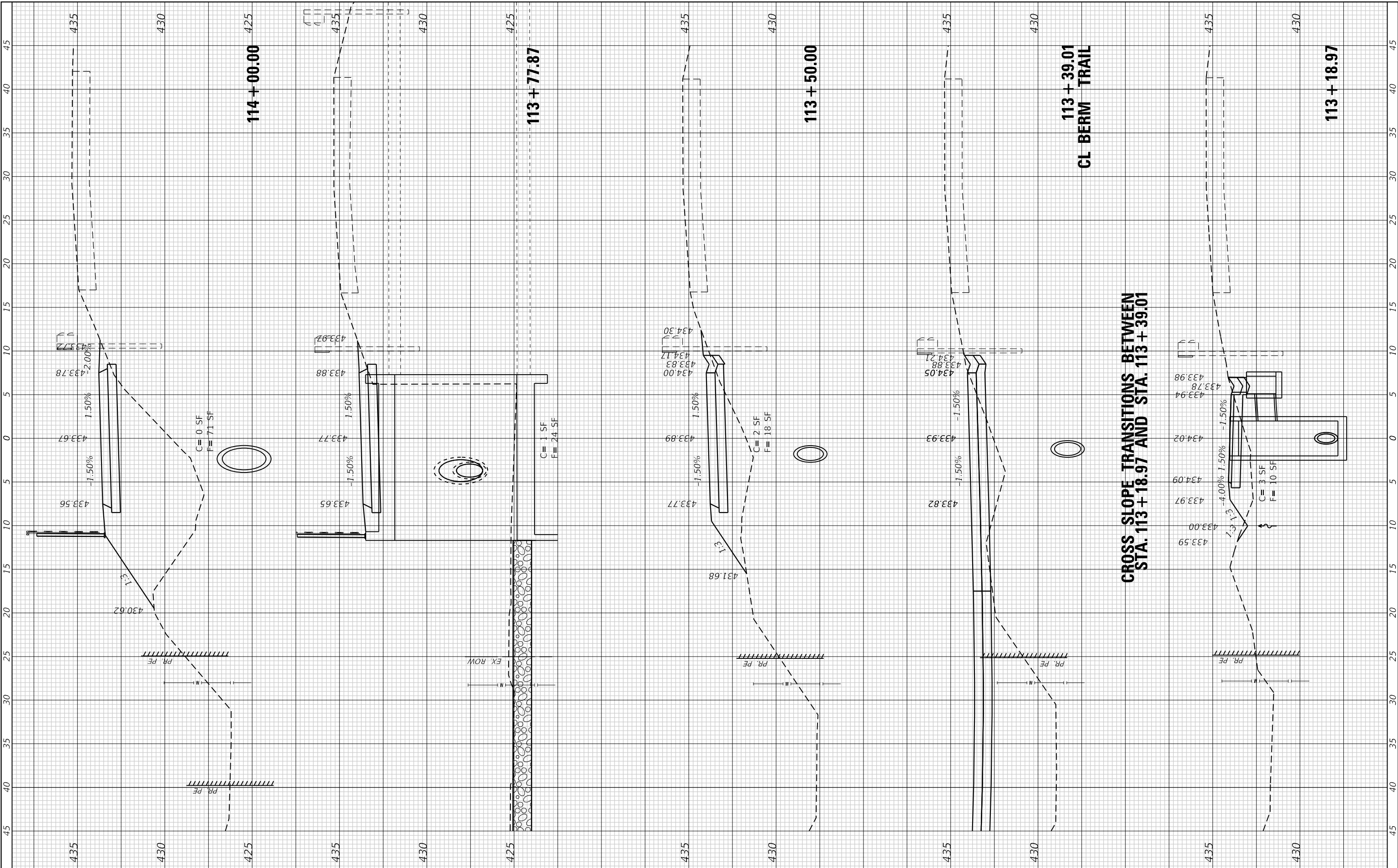
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSect\200713a.mxd



CROSS SLOPE TRANSITIONS BETWEEN STA. 113 + 18.97 AND STA. 113 + 39.01

**113 + 39.01
CL BERM TRAIL**

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO.:
 184-001220

USER NAME	= efisher
PLOT SCALE	= 10.0000' / in.
PLOT DATE	= 1/14/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



CITY OF MASCOU TAH

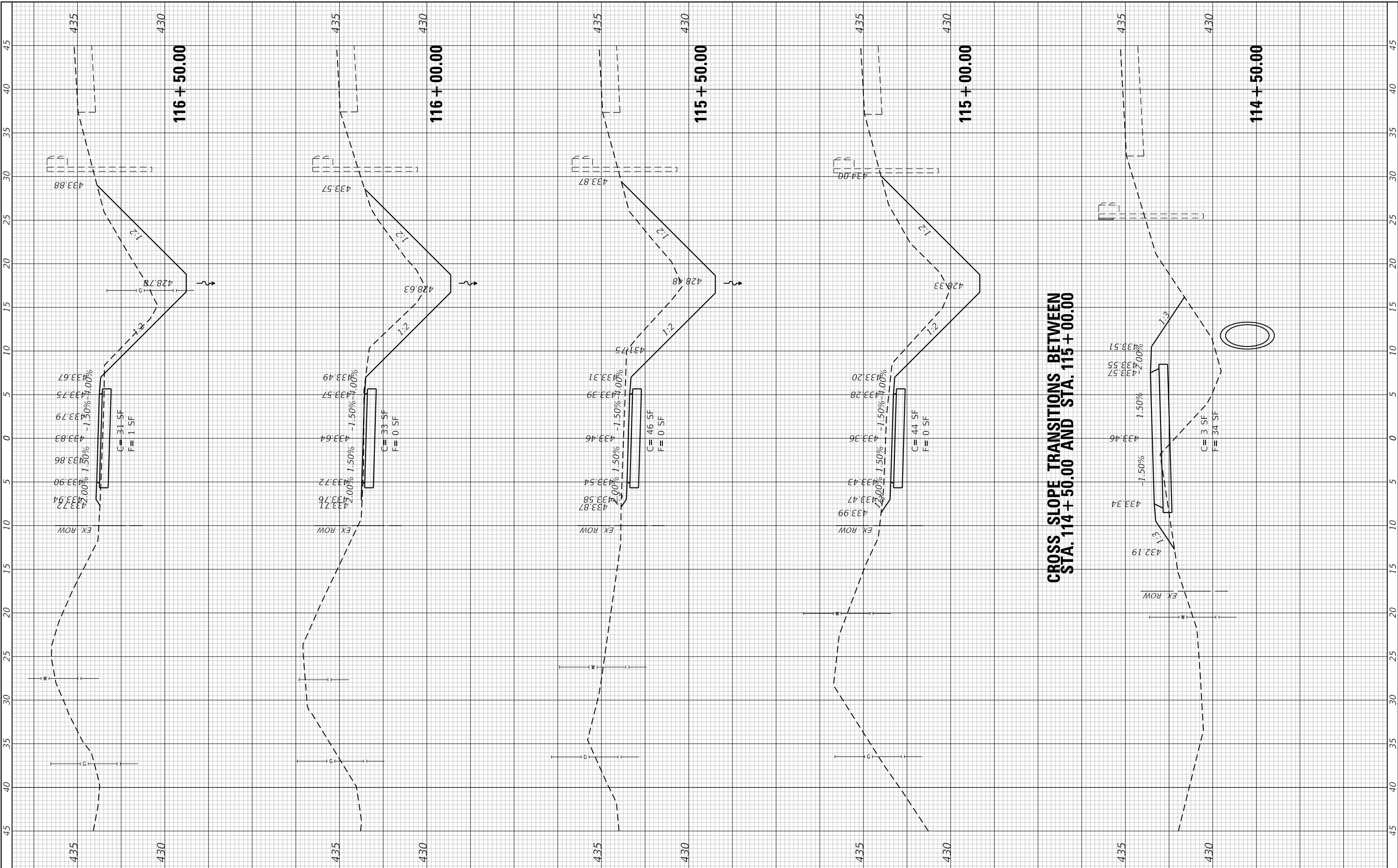
CROSS SECTIONS IL ROUTE 4 SUP			
SCALE:	1"=10'	SHEET	8 OF 13 SHEETS
STA.	113+18.97	TO STA.	114+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	57
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransStrees200713a.mxd
 No. 184-001220



CROSS SLOPE TRANSITIONS BETWEEN STA. 114 + 50.00 AND STA. 115 + 00.00

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME	= efisher
PLOT SCALE	= 10.0000 "/td>
PLOT DATE	= 1/14/2026

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



CITY OF MASCOU TAH

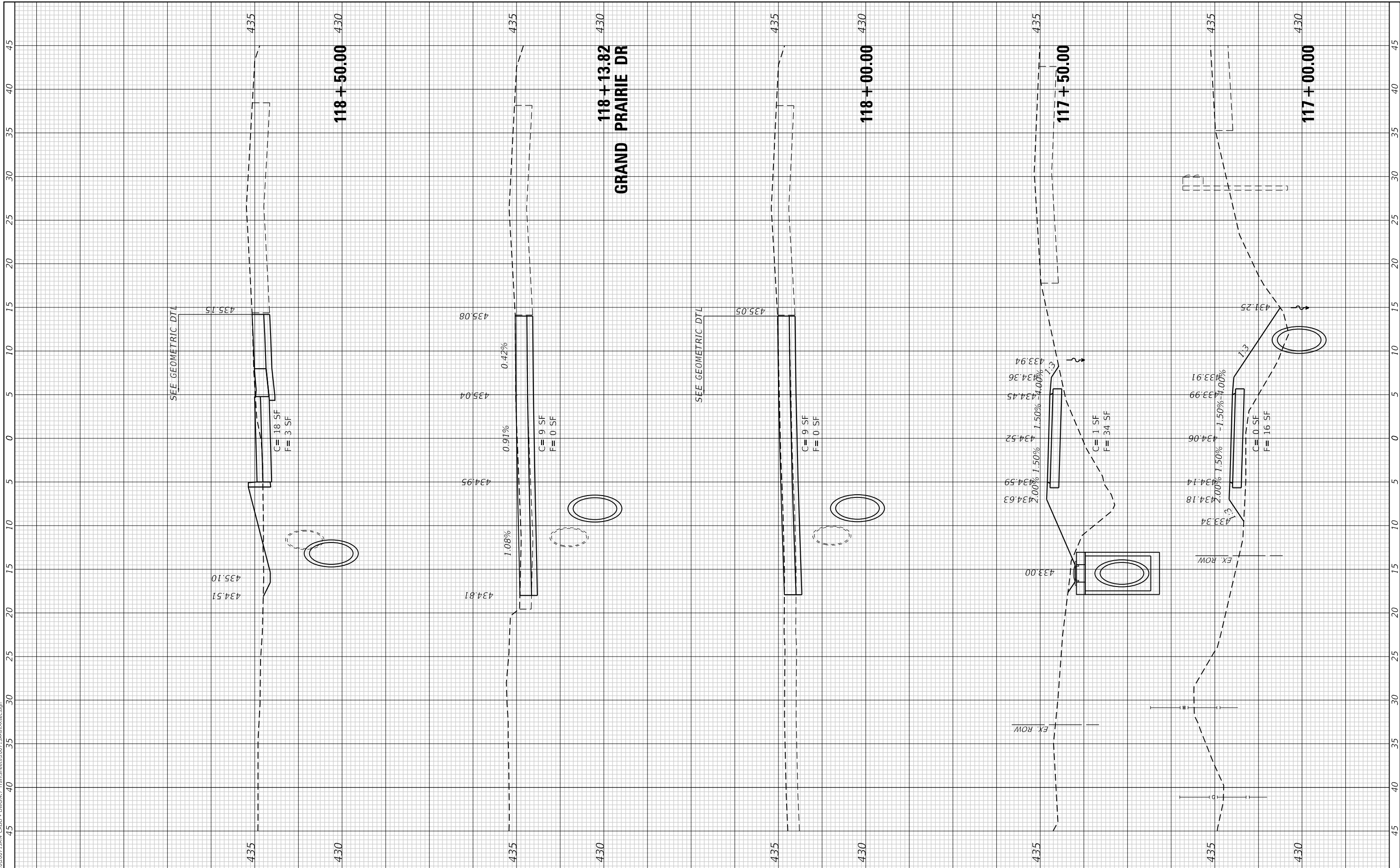
CROSS SECTIONS IL ROUTE 4 SUP			
SCALE: 1"=10'	SHEET 9	OF 13 SHEETS	STA. 114+50.00 TO STA. 116+50.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 58
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: D:\enr\...
 FILE NAME: P:\2020\20200713\4 CAD - DWG\4.7 Trans\Sheet200713a.dwg



TWM ENGINEERING GEOSPATIAL SERVICES
 TWM, INC. www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000" / in.
PLOT DATE =	1/14/2026

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



CITY OF MASCOU TAH

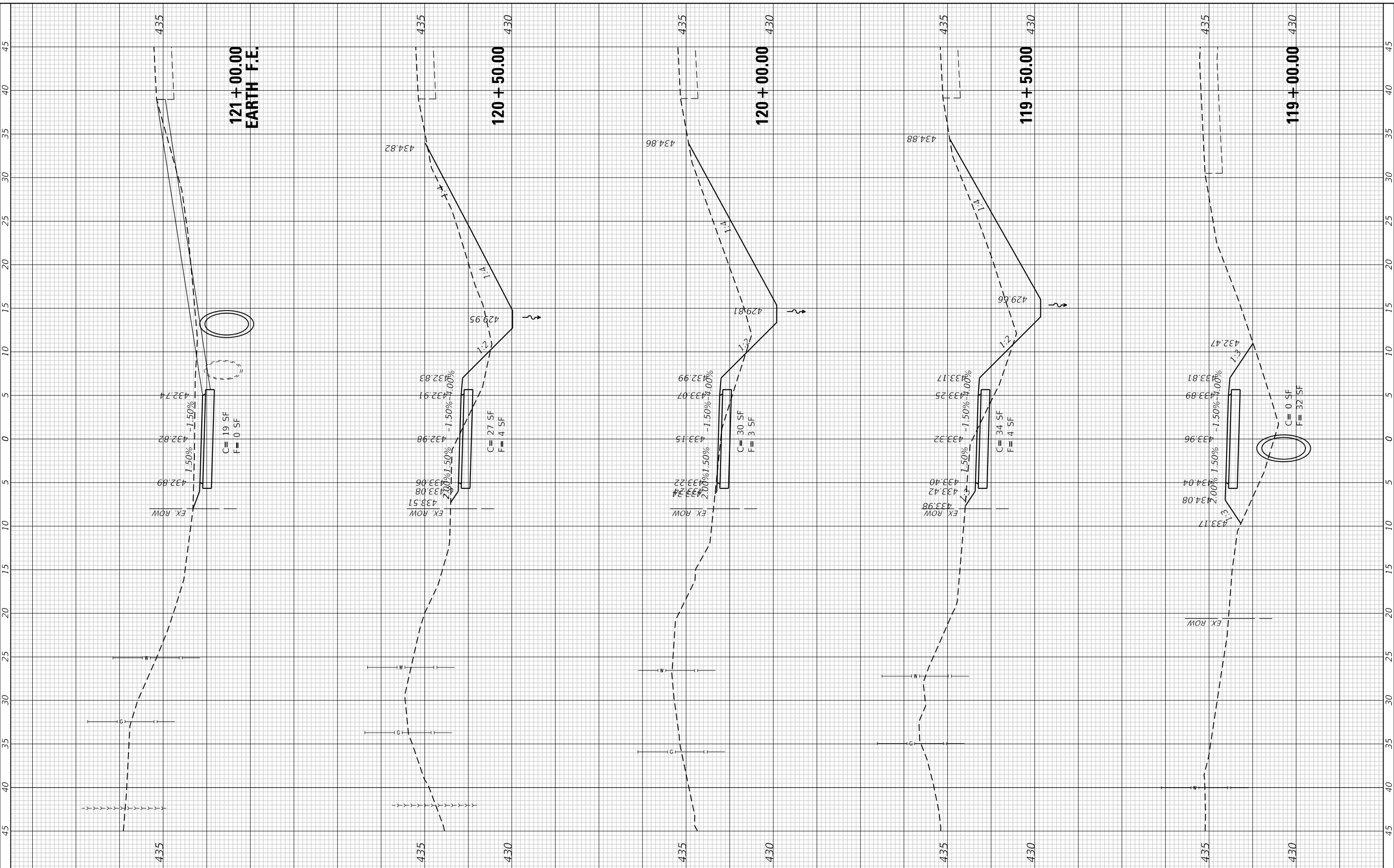
**CROSS SECTIONS
 IL ROUTE 4 SUP**
 SCALE: 1"=10' SHEET 10 OF 13 SHEETS STA. 117+00.00 TO STA. 118+50.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 59
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT * 21-00024-02-BT & 23-00024-03-BT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSeres200713a.mxd
 TWM, INC. LICENSE NO: 184-001220



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = efisher	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/14/2026	CHECKED -	REVISED -
	DATE -	REVISED -



CITY OF MASCOU TAH

**CROSS SECTIONS
 IL ROUTE 4 SUP**

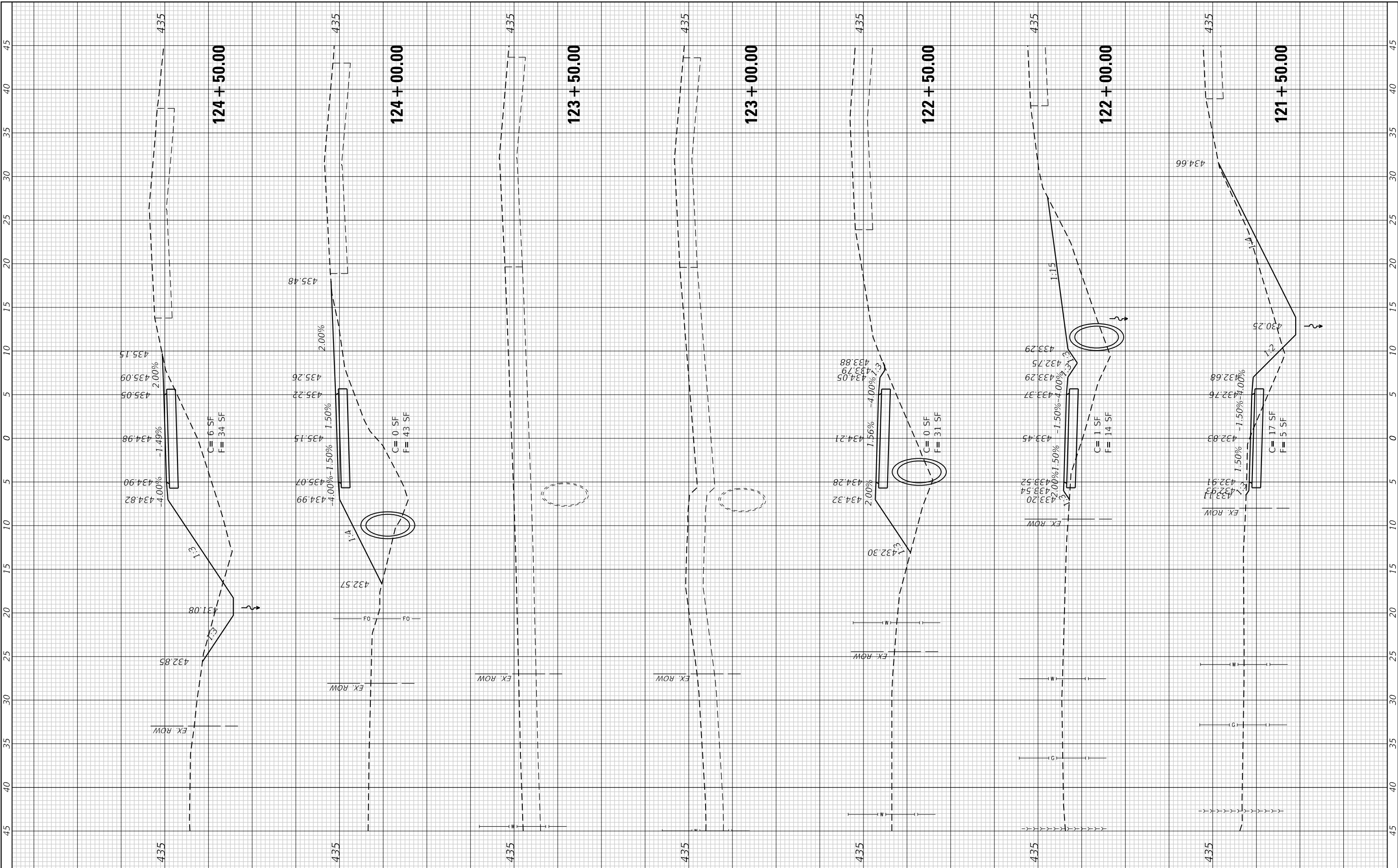
SCALE: 1"=10' SHEET 11 OF 13 SHEETS STA. 119+00.00 TO STA. 121+00.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 60
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransShts\2021\3acth-288c.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000' / in.
PLOT DATE =	1/14/2026

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	



CITY OF MASCOU TAH

**CROSS SECTIONS
 IL ROUTE 4 SUP**

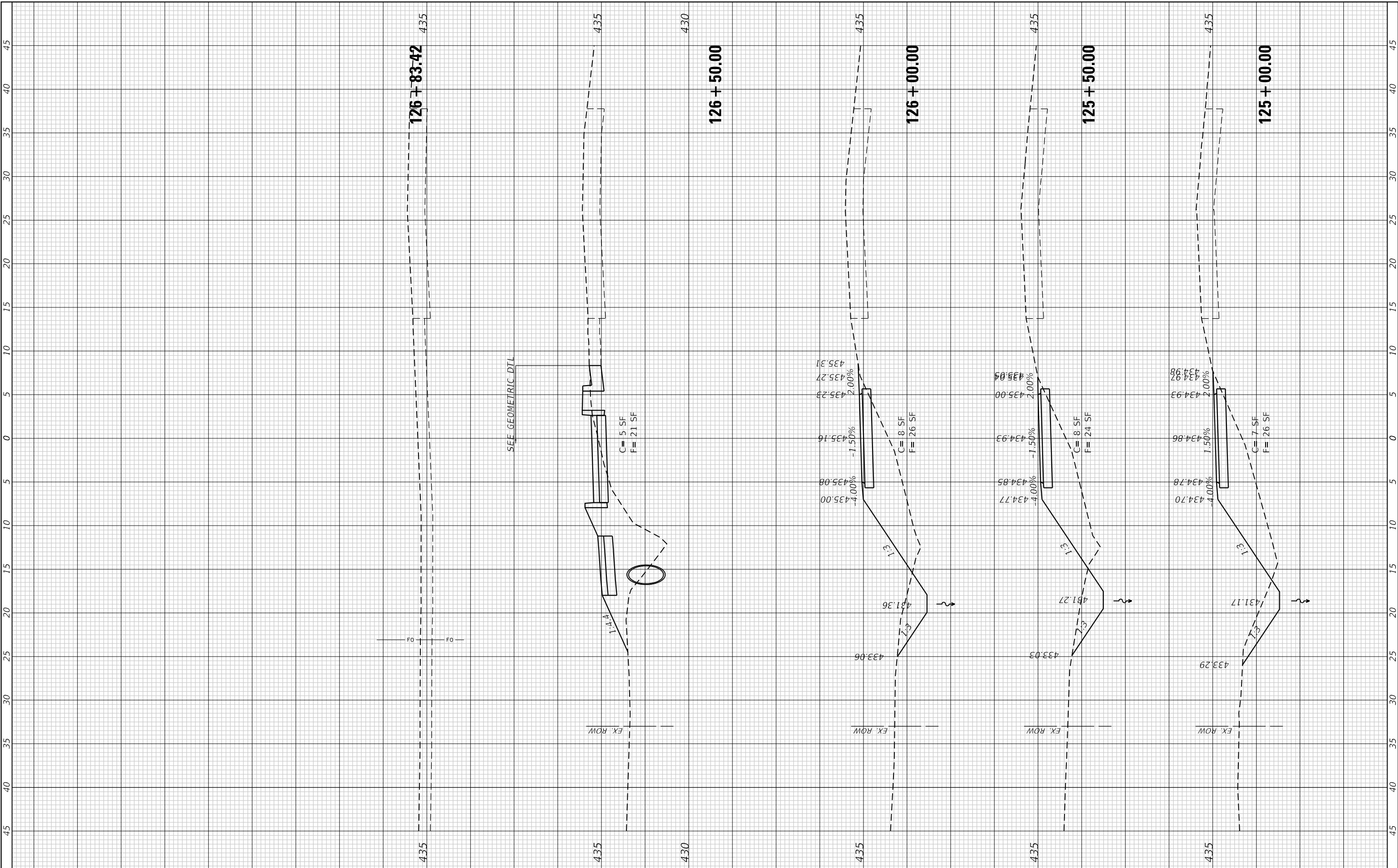
SCALE: 1"=10' SHEET 12 OF 13 SHEETS STA. 121+50.00 TO STA. 124+50.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 61
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
FILE NAME: P:\2020\2020\200713M4_CADD - DWG\4.7_TransSeres200713a.mxd
DATE: 1/14/2026



TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000 ' / in.
PLOT DATE =	1/14/2026

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	



CITY OF MASCOU TAH

**CROSS SECTIONS
IL ROUTE 4 SUP**

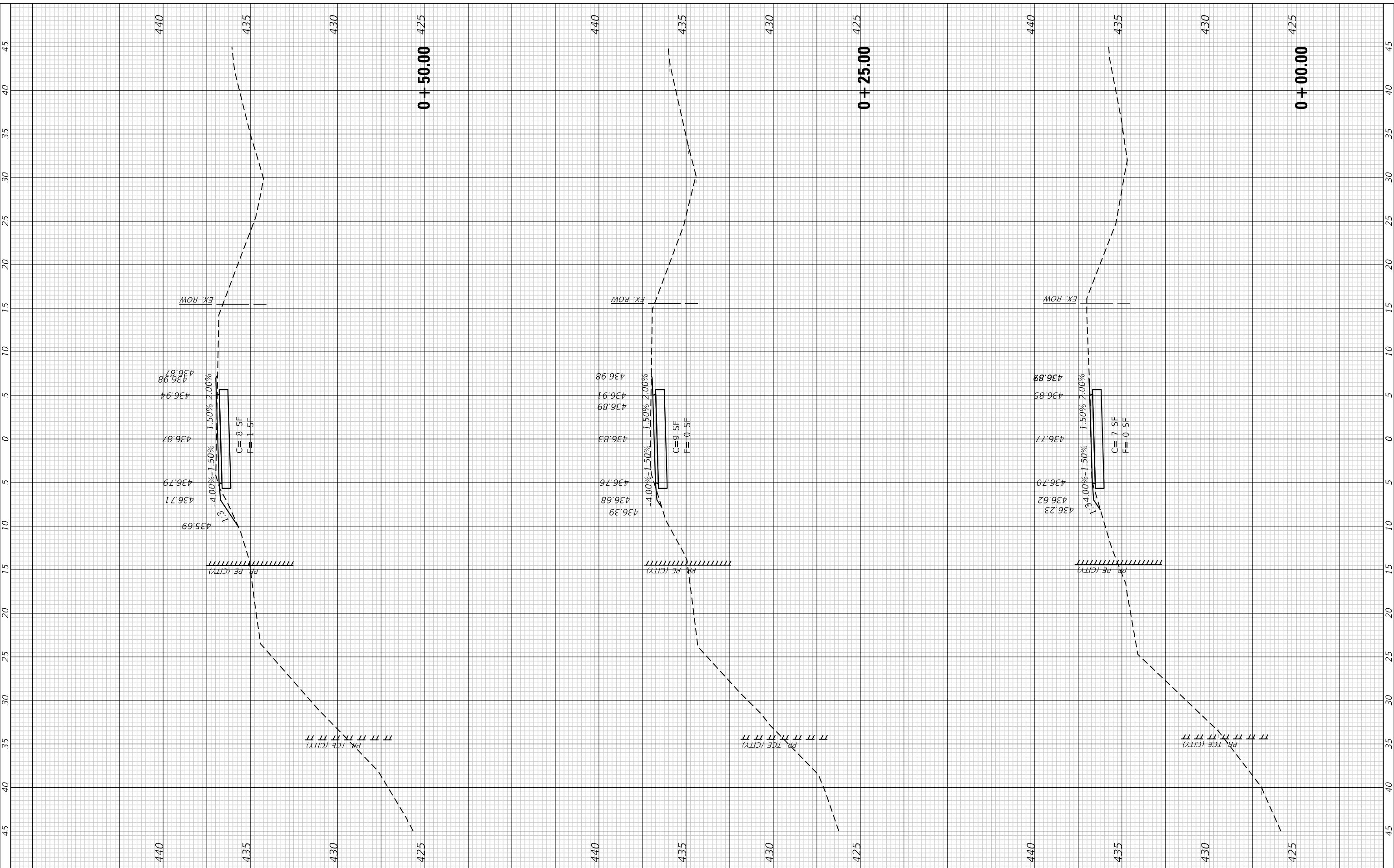
SCALE: 1"=10' SHEET 13 OF 13 SHEETS STA. 125+00.00 TO STA. 126+83.42

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8978	*	ST. CLAIR	65	62
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P:\2020\20200713\44 CAD - DWG\4.7 Trans\Sheets\2021\3a\sh-cssec-Berm.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO.:
 184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000 ' / in.
PLOT DATE =	1/14/2026

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

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



CITY OF MASCOU TAH

CROSS SECTIONS
BERM TRAIL

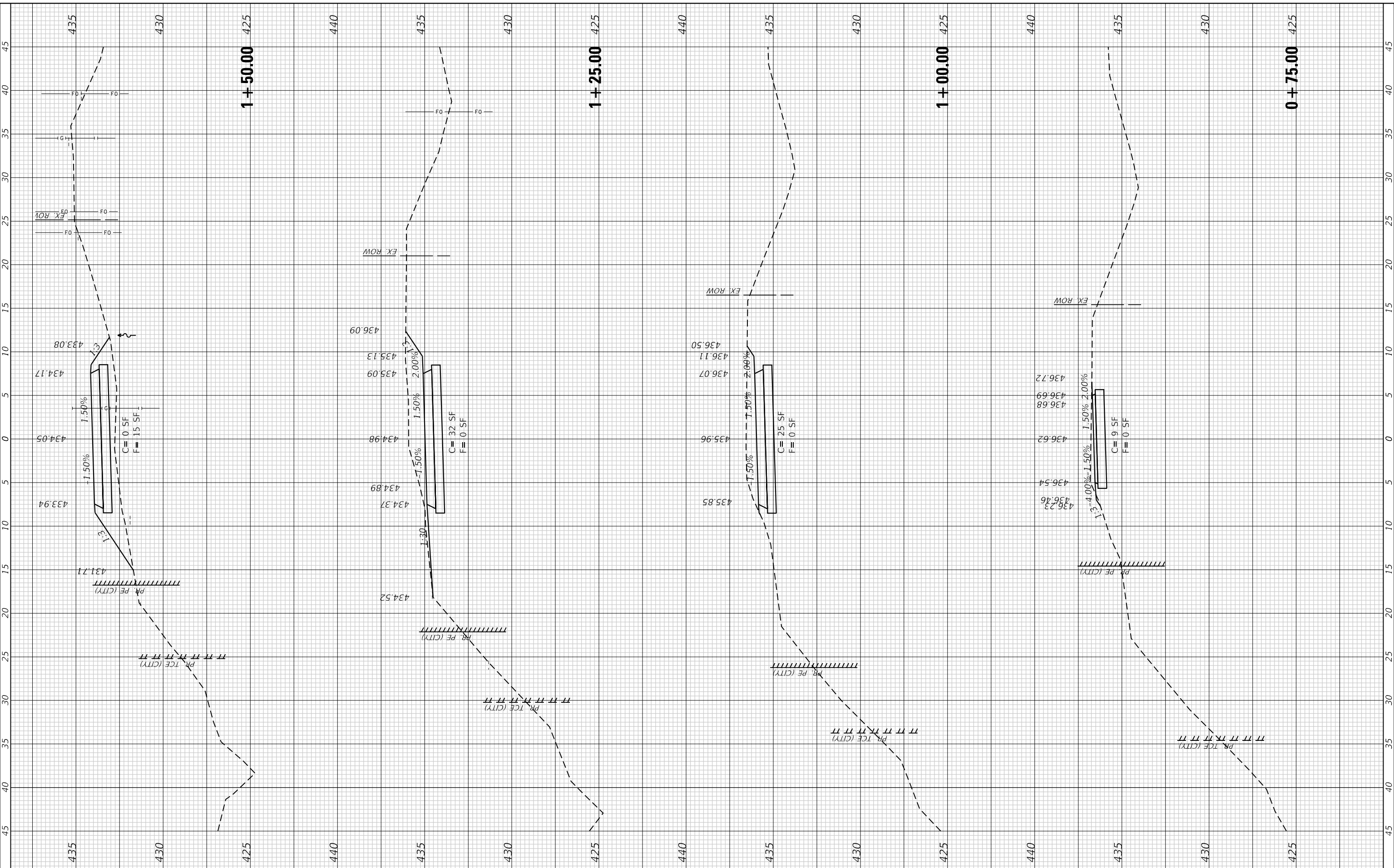
SCALE: 1"=10' SHEET 1 OF 3 SHEETS STA. +00.00 TO STA. +50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0678	*	ST. CLAIR	65	63
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
 FILE NAME: P:\2020\20200713\44 CAD - DWG\4.7 Trans\Series200713\asht-2\asc-Berm.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	efisher
PLOT SCALE =	10.0000 ' / in.
PLOT DATE =	1/14/2026

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



CITY OF MASCOU TAH

CROSS SECTIONS
BERM TRAIL

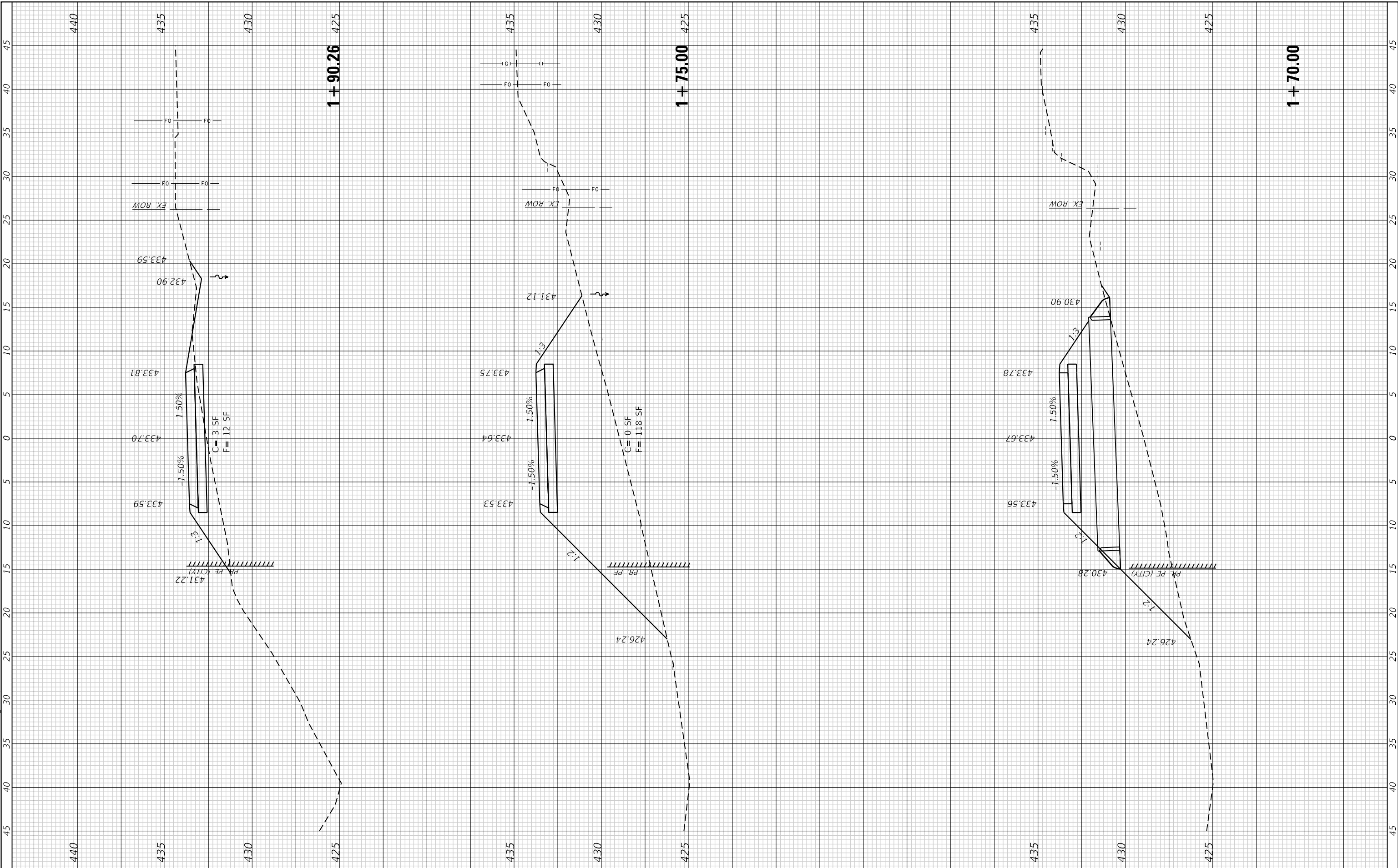
SCALE: 1"=10' SHEET 2 OF 3 SHEETS STA. +75.00 TO STA. 1+50.00

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 64
CONTRACT NO. 97878			ILLINOIS FED. AID PROJECT	
* 21-00024-02-BT & 23-00024-03-BT				

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

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

MODEL: Defnair
 FILE NAME: P:\2020\20200713M4_CADD - DWG\4.7_TransSeres200713aesh-xsec-Berm.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	efisher
DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISOR	
REVISION	
DATE	



CITY OF MASCOU TAH

CROSS SECTIONS
BERM TRAIL

SCALE: 1"=10' SHEET 3 OF 3 SHEETS STA. 1+70.00 TO STA. 1+90.26

F.A.P. RTE. 0678	SECTION *	COUNTY ST. CLAIR	TOTAL SHEETS 65	SHEET NO. 65
CONTRACT NO. 97878				
ILLINOIS FED. AID PROJECT				
* 21-00024-02-BT & 23-00024-03-BT				