

04-27-2018 LETTING ITEM 043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52 CLV-1	ST. CLAIR	21	1
		ILLINOIS	CONTRACT NO. 76179	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

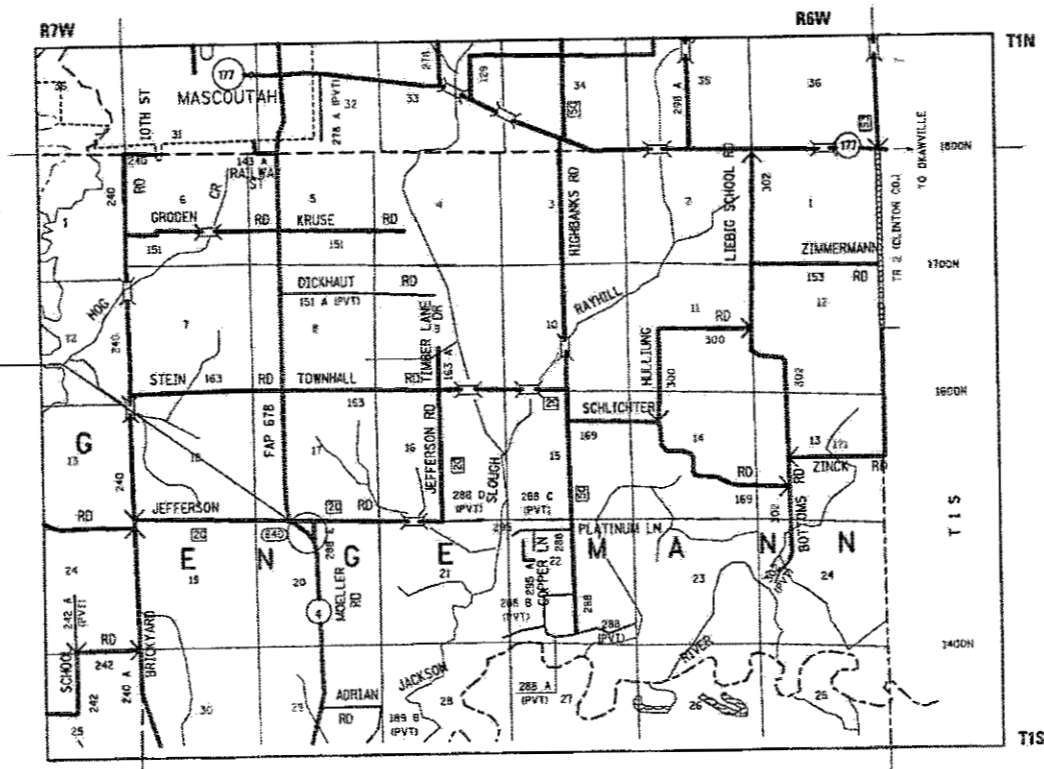
FAP ROUTE 678 (IL 4)
SECTION 50,52 CLV-1
CULVERT EXTENSION
ST. CLAIR COUNTY

TRAFFIC DATA

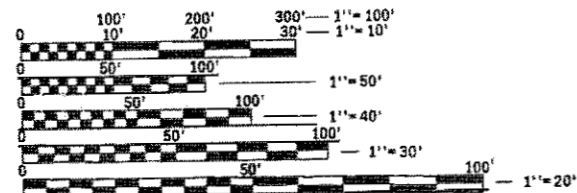
IL 4:
2017 ADT: 2750 (ACTUAL)
2018 ADT: 2800 (ESTIMATED)
2038 ADT: 3200 (ESTIMATED)
SU = 11.8%
MU = 8.2%

FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL

C-98-265-18



PROJECT LOCATION
SN 082-2406
STA. 224+50.91
LATITUDE: 38.43671
LONGITUDE: -89.79051



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

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

NOT TO SCALE

LOCATION MAP
ENGELMANN TOWNSHIP

GROSS LENGTH = 4.00 FT. = 0.001 MILE
NET LENGTH = 4.00 FT. = 0.001 MILE

PROJECT ENGINEER: HERVE GELIN (618) 346-3179
PROJECT MANAGER: CECIL DOWNING (618) 346-3145

CONTRACT NO. 76179

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 219 20 18

[Signature]
REGIONAL ENGINEER

Mar 23 20 18

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 23 20 18

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, GENERAL NOTES, COMMITMENTS & HIGHWAY STANDARDS
- 3-4 SUMMARY OF QUANTITIES
- 5 SCHEDULE OF QUANTITIES
- 6 PLAN SHEETS
- 7-11 PLAT OF HIGHWAYS
- 12-18 STRUCTURE PLANS
- 19-21 CROSS SECTIONS

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 666001-01 RIGHT OF WAY MARKERS
- 701001-02 OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701901-07 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

 - *AMEREN ILLINOIS - GAS & ELECTRIC (AERIAL & BURIED)
 - *CLEARWAVE COMMUNICATIONS - COMMUNICATIONS (AERIAL & BURIED)
 - *CLINTON COUNTY ELECTRIC COOPERATIVE, INC. - ELECTRIC (AERIAL & BURIED)
 - *VILLAGE OF FAYETTEVILLE - WATER & SANITARY SEWER (BURIED)
 - *FRONTIER NORTH, INC. - COMMUNICATIONS (AERIAL & BURIED)
 - *FSH WATER COMMISSION - WATER (BURIED)

J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND CONSTRUCTION.
3. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
4. ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
5. FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE PAID.
6. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
7. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
8. ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING".
9. THE RIGHT-OF-WAY SHALL BE STAKED PRIOR TO ANY CONSTRUCTION OPERATIONS. STAKES SHALL BE PLACED SUCH THAT THEY ARE VISIBLE FROM EACH OTHER AND ARE SUFFICIENTLY SPACED TO DETERMINE THE LOCATION OF THE RIGHT-OF-WAY IN ANY LOCATION. THE RIGHT-OF-WAY SHALL BE STAKED BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING". THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR CONSTRUCTION LAYOUT.
10. THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE PROPERTY CORNER MONUMENT.

GENERAL NOTES (CONT.)

11. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL LOCATIONS AT ALL TIMES. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, REGRADING, PLUGGING ABANDONED PIPES, OR OTHER ACTIVITIES REQUIRED.
12. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

1. THE CONTRACTOR WILL NOT BE ALLOWED TO WORK ON BOTH SIDES OF THE ROADWAY SIMULTANEOUSLY.

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	DRAWN -	REVISED -
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PLOT DATE = 2/9/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52 CLV-1	ST. CLAIR	21	2
			CONTRACT NO. 76J79	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BOX CULVERT 0013 S.N. 082-2406
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	15	15
20200100	EARTH EXCAVATION	CU YD	50	50
20400800	FURNISHED EXCAVATION	CU YD	410	410
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
28100107	STONE RIPRAP, CLASS A4	SQ YD	13	13
28200200	FILTER FABRIC	SQ YD	13	13
50102400	CONCRETE REMOVAL	CU YD	0.2	0.2
50800105	REINFORCEMENT BARS	POUND	3000	3000
54002020	EXPANSION BOLTS 3/4 INCH	EACH	24	24
54003000	CONCRETE BOX CULVERTS	CU YD	17.8	17.8
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8
67100100	MOBILIZATION	L SUM	1	1

100%
STATE

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PLOT DATE = 2/9/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50.52 CLV-1	ST. CLAIR	21	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76179	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BOX CULVERT 0013 S.N. 082-2406
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	19	19
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1

100%
STATE

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50.52 CLV-1	ST. CLAIR	21	4
CONTRACT NO. 76179			ILLINOIS FED. AID PROJECT	

EARTHWORK SCHEDULE							
STATION	TO	STATION	DISTANCE	EARTH EXCAVATION		FURNISHED EXCAVATION	
				LT	RT	LT	RT
				CU YD		CU YD	
223+00.00		223+50.00	50	0.06		2.26	
223+50.00		224+00.00	50	0.06		8.40	
224+00.00		224+30.00	30	1.17	0.10	42.11	53.40
224+30.00		224+50.00	20	1.05	6.23	36.84	35.92
224+50.00		224+50.91	0.91	0.64	0.61	0.51	0.03
224+50.91		224+70.00	19.09	14.42	8.02	17.68	39.21
224+70.00		225+00.00	30	3.77	1.83	34.57	61.07
225+00.00		225+50.00	50	3.24		16.08	
225+50.00		226+00.00	50	0.02		4.69	
SUBTOTAL				24.44	16.79	163.13	189.63
15% SHRINKAGE AND SWELL				3.67	2.52	24.47	28.44
TOTAL				47.42		405.67	
PLAN QUANTITY				50		410	

ROW MARKERS SCHEDULE			
STATION	OFFSET	DIRECTION	FURNISHING AND ERECTING ROW MARKERS
			EACH
223+70.00	41.67'	RT	1
223+95.00	38.34'	LT	1
224+20.00	54.36'	LT	1
224+40.00	66.63'	RT	1
224+70.00	54.41'	LT	1
224+90.00	66.57'	RT	1
225+50.00	38.53'	LT	1
225+50.00	41.47'	RT	1
TOTAL			8

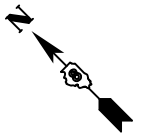
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PLOT DATE = 2/9/2018	DATE -	REVISED -

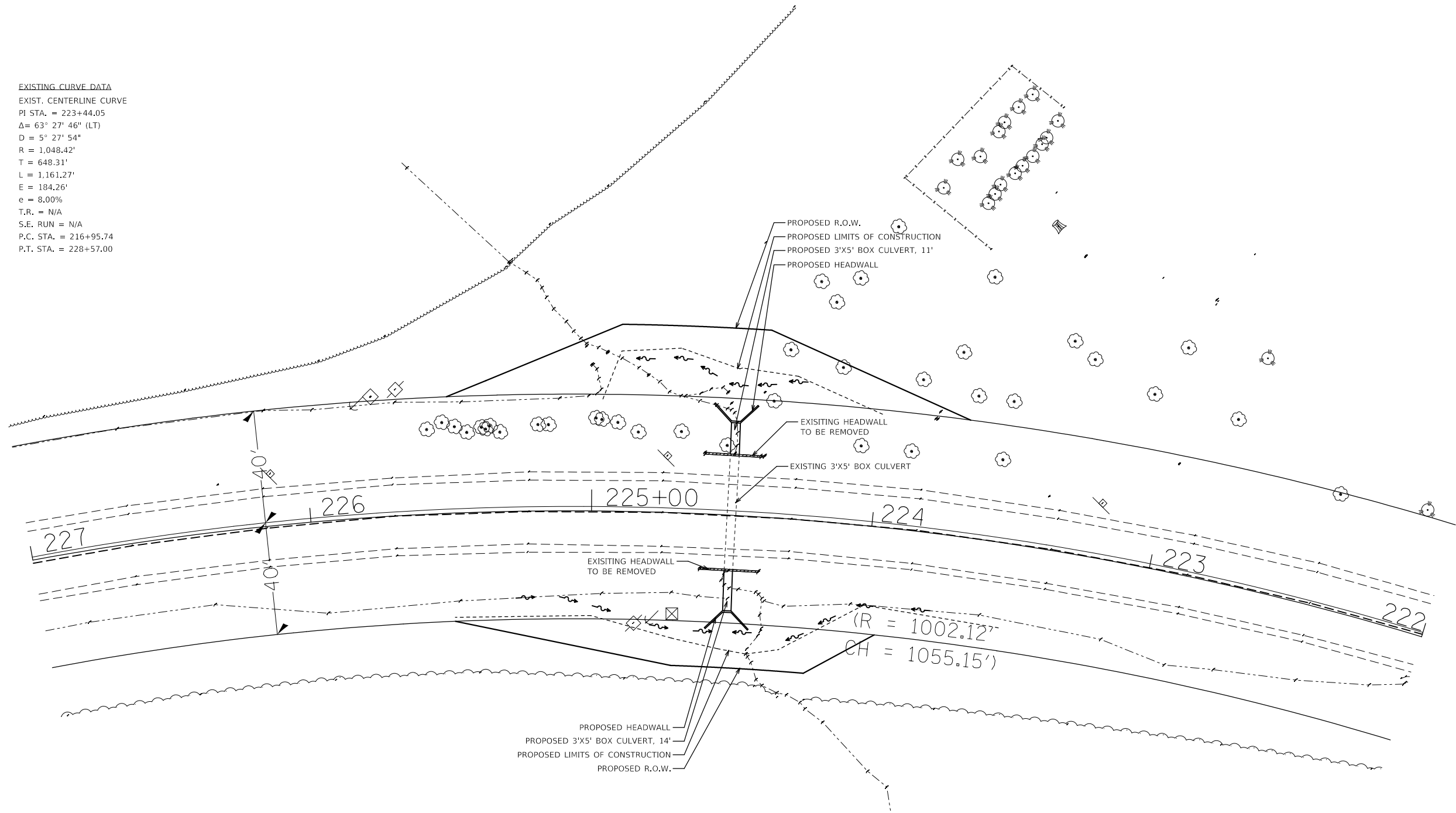
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

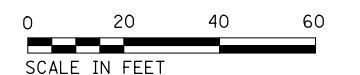
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678	50.52 CLV-1	ST. CLAIR	21	5
			CONTRACT NO. 76J79	
		ILLINOIS	FED. AID PROJECT	



EXISTING CURVE DATA
 EXIST. CENTERLINE CURVE
 P.I. STA. = 223+44.05
 $\Delta = 63^\circ 27' 46''$ (LT)
 $D = 5^\circ 27' 54''$
 $R = 1,048.42'$
 $T = 648.31'$
 $L = 1,161.27'$
 $E = 184.26'$
 $e = 8.00\%$
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 216+95.74
 P.T. STA. = 228+57.00



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	DRAWN -	REVISED -
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PLOT DATE = 2/23/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 222+00 TO STA. 227+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52CLV-1	ST. CLAIR	21	6
CONTRACT NO. 76J79				
ILLINOIS FED. AID PROJECT				

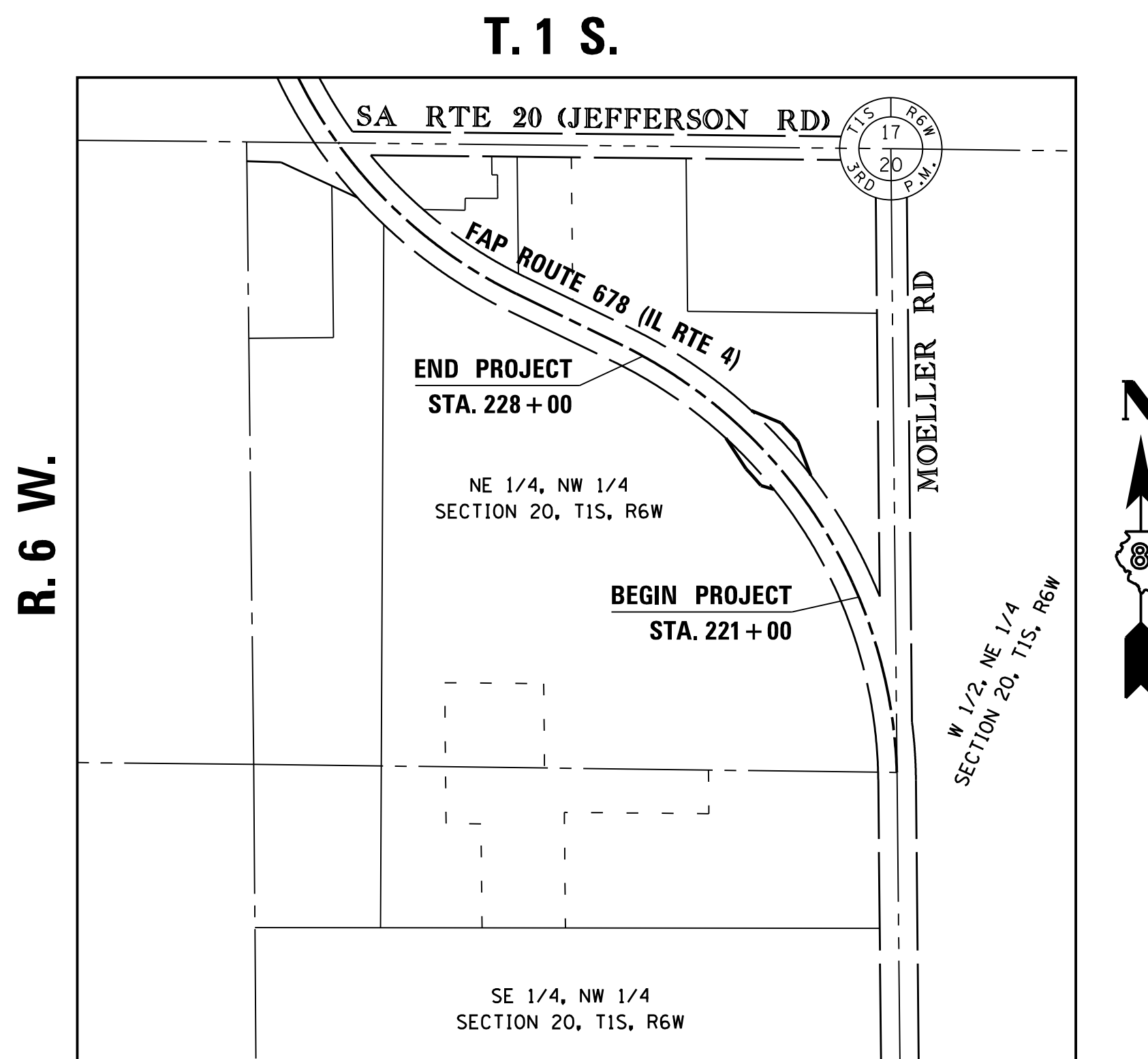
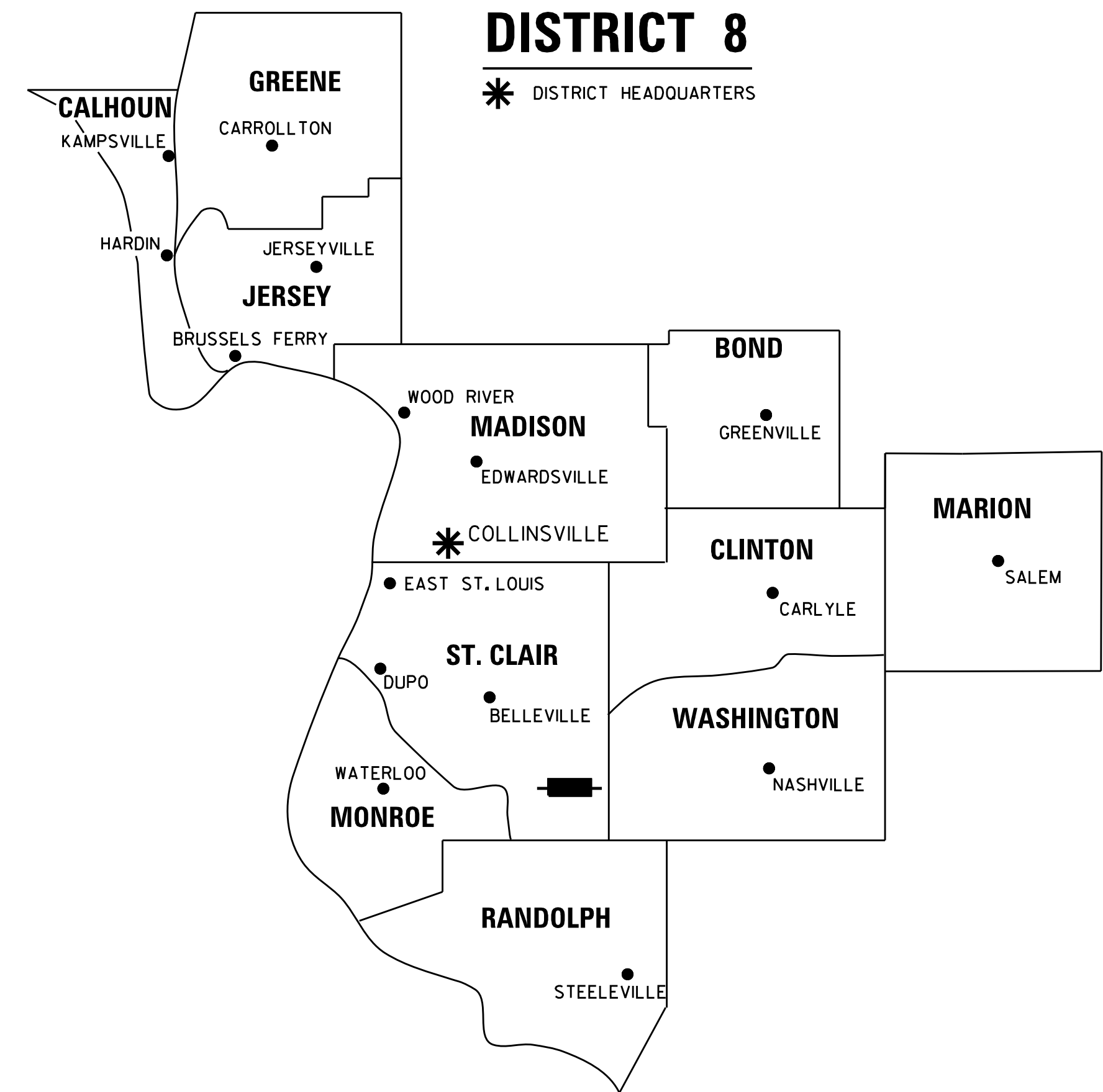
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SPACE RESERVED FOR RECORDING OFFICER

SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
1		COVER SHEET
2		LEGEND/NOTE SHEET
3	221+00 TO 228+00	PARCELS 8608021 & 8608022
4		TOTAL HOLDING
5		CONTROL & CL TIES SECTION CORNER TIES

PLAT OF HIGHWAYS

FAP ROUTE 678 (IL. ROUTE 4)
SECTION 50,52CLV-1
ST. CLAIR COUNTY
JOB NO. R-98-008-16



PROJECT LENGTH = 700 LIN. FT. = 0.1326 MILES

PREPARED BY:
API Survey LLC
17625 Mockingbird Road
P.O. Box 333
Nashville, Illinois 62263
Fax 618-478-9001
Ph. 618-478-9000
Email: gary@apisurvey.com
IDPR Design Firm License No. 184-006526



JACK A. GELSO, IPLS # 3786
EXPIRATION DATE: 11-30-2018

6/30/2017

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52CLV-1	ST. CLAIR	21	7
			CONTRACT NO. 76J79	
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

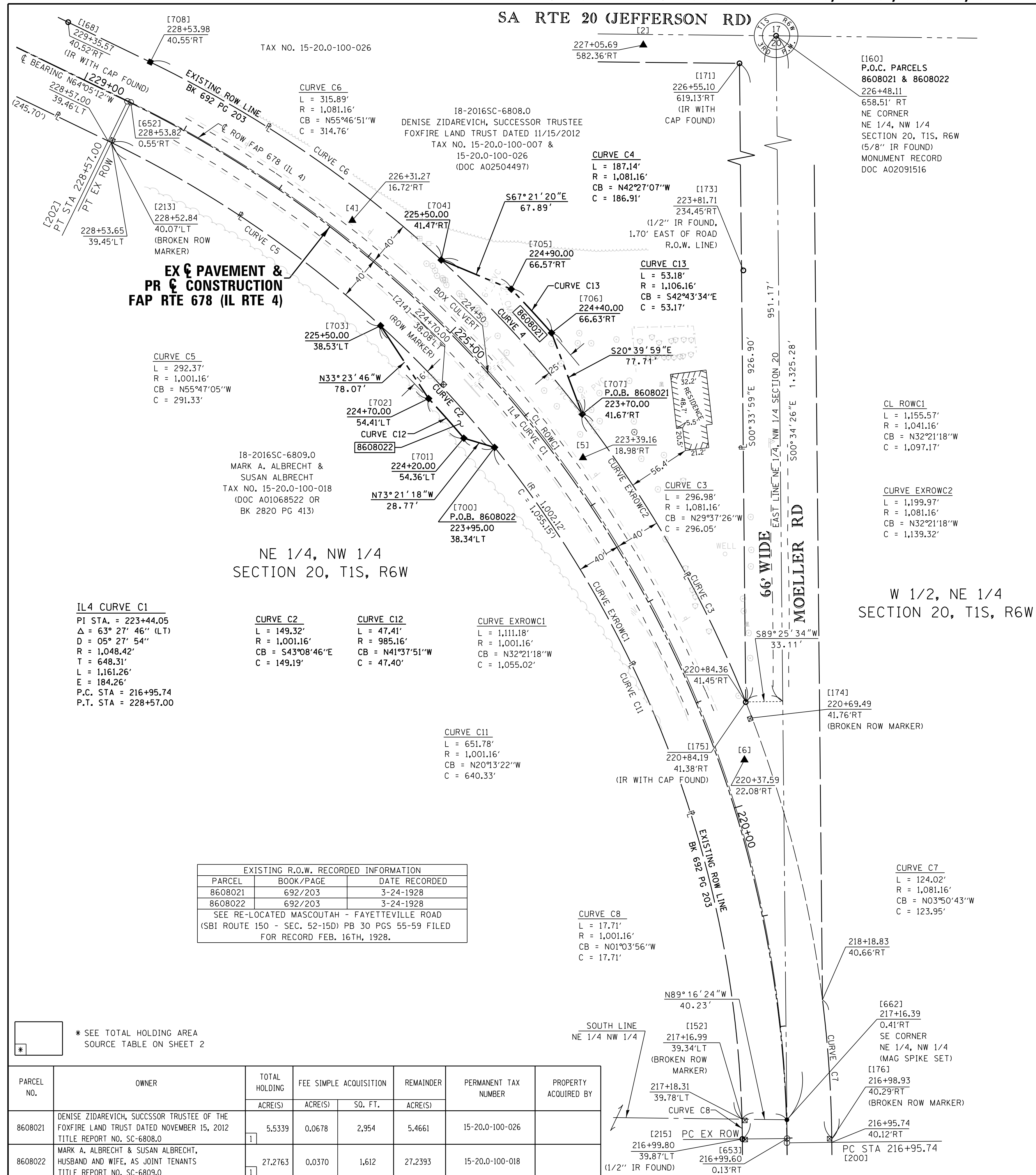
PART OF THE NE 1/4 OF NW 1/4 OF SECTION 20, T. 1 S., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

SA RTE 20 (JEFFERSON RD)

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYOR'S NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



SPACE RESERVED FOR RECORDING OFFICER



COORDINATE TABLE				
[PNT #]/DESCRIPTION	STATION	OFFSET	NORTH	EAST
[160]/(5/8") IR FOUND N 1/4 CORNER	226+48.11	658.51'RT	645,399.8630	404,739.1060
[662]/MAG SPIKE SET SE CORNER NE 1/4, NW 1/4	217+16.39	0.41'RT	644,074.6495	404,752.3781
[653]/PC CL EX ROW	216+99.60	0.13'RT	644,057.8472	404,752.4771
[215]/(1/2") IR FOUND	216+99.80	39.87'LT	644,057.4570	404,712.4790
EXISTING ROW	217+18.31	39.78'LT	644,075.2625	404,712.1469
[152]/BROKEN ROW MARKER	217+16.99	39.34'LT	644,074.0090	404,712.6280
[700]/PR ROW IR SET	223+95.00	38.34'LT	644,676.0182	404,490.8058
[701]/PR ROW IR SET	224+20.00	54.36'LT	644,684.2578	404,463.2457
[702]/PR ROW IR SET	224+70.00	54.41'LT	644,719.6879	404,431.7552
[703]/PR ROW IR SET	225+50.00	38.53'LT	644,784.8634	404,388.7863
[214]/EX ROW MARKER	224+70.00	38.08'LT	644,730.8110	404,443.7090
EXISTING ROW	228+53.65	39.45'LT	644,948.6806	404,147.8737
[213]/BROKEN ROW MARKER	228+52.84	40.07'LT	644,947.7810	404,148.2920
[652]/PT CL EX ROW	228+53.82	0.55'RT	644,984.6784	404,165.3138
[708]/EX ROW IR SET	228+53.98	40.55'RT	645,020.6762	404,182.7539
[168]/IR WITH CAP FOUND	229+35.57	40.52'RT	645,056.3570	404,109.2460
[704]/PR ROW IR SET	225+50.00	41.47'RT	644,843.6652	404,443.0299
[705]/PR ROW IR SET	224+90.00	66.57'RT	644,817.5276	404,505.6843
[706]/PR ROW IR SET	224+40.00	66.63'RT	644,778.4679	404,541.7606
[707]/PR ROW IR SET	223+70.00	41.67'RT	644,705.7564	404,569.1871
[173]/(1/2") IR FOUND	223+81.71	234.45'RT	644,834.3570	404,713.4090
EXISTING ROW	220+84.36	41.45'RT	644,448.4052	404,715.5252
[175]/IR WITH CAP FOUND	220+84.19	41.38'RT	644,448.2220	404,715.5270
[174]/BROKEN ROW MARKER	220+69.49	41.76'RT	644,434.1320	404,721.4720
EXISTING ROW	218+18.83	40.66'RT	644,181.9114	404,784.1628
[176]/BROKEN ROW MARKER	216+98.93	40.29'RT	644,057.7400	404,792.6430
[171]/IR WITH CAP FOUND	226+55.10	619.13'RT	645,375.2600	404,706.3630

SEE COORDINATE TABLE ON SHEET 2 FOR I.D.O.T. PROVIDED CONTROL AND ALIGNMENTS.

NE 1/4, NW 1/4 SECTION 20, T1S, R6W

W 1/2, NE 1/4 SECTION 20, T1S, R6W

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	BOOK/PAGE	DATE RECORDED
8608021	692/203	3-24-1928
8608022	692/203	3-24-1928

SEE RE-LOCATED MASCOUHAH - FAYETTEVILLE ROAD (SBI ROUTE 150 - SEC. 52-150) PB 30 PGS 55-59 FILED FOR RECORD FEB. 16TH, 1928.

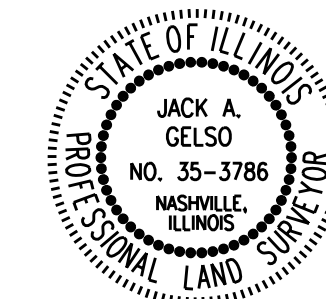
PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION	REMAINDER	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRE(S)	ACRE(S)	SO. FT.		
8608021	DENISE ZIDAREVICH, SUCCESSOR TRUSTEE OF THE FOXFIRE LAND TRUST DATED NOVEMBER 15, 2012 TITLE REPORT NO. SC-6808.0	5.5339	0.0678	2,954	15-20.0-100-026	
8608022	MARK A. ALBRECHT & SUSAN ALBRECHT, HUSBAND AND WIFE, AS JOINT TENANTS TITLE REPORT NO. SC-6809.0	27.2763	0.0370	1,612	15-20.0-100-018	

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, JACK A. GELSO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCELS TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 6/30/2017

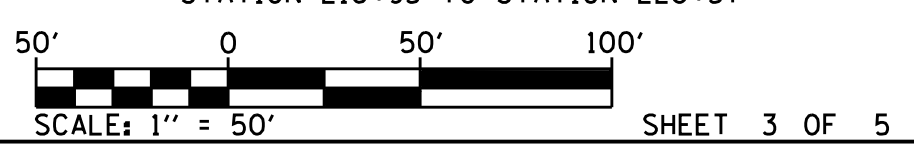
JACK A. GELSO, PLS NO. 3786
LICENSE EXPIRATION DATE: 11/30/2018



API Survey LLC
17625 Mockingbird Road
P.O. Box 333
Nashville, Illinois 62263
Fax 618-478-9001
Ph. 618-478-9000
Email: gary@apisurvey.com
IDPR Design Firm License No. 184-006526

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 678 (IL 4)
SECTION 50,52CLV-1
ST. CLAIR COUNTY
JOB NO. R-98-008-16
STATION 216+95 TO STATION 228+57



ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52CLV-1	ST. CLAIR	21	9

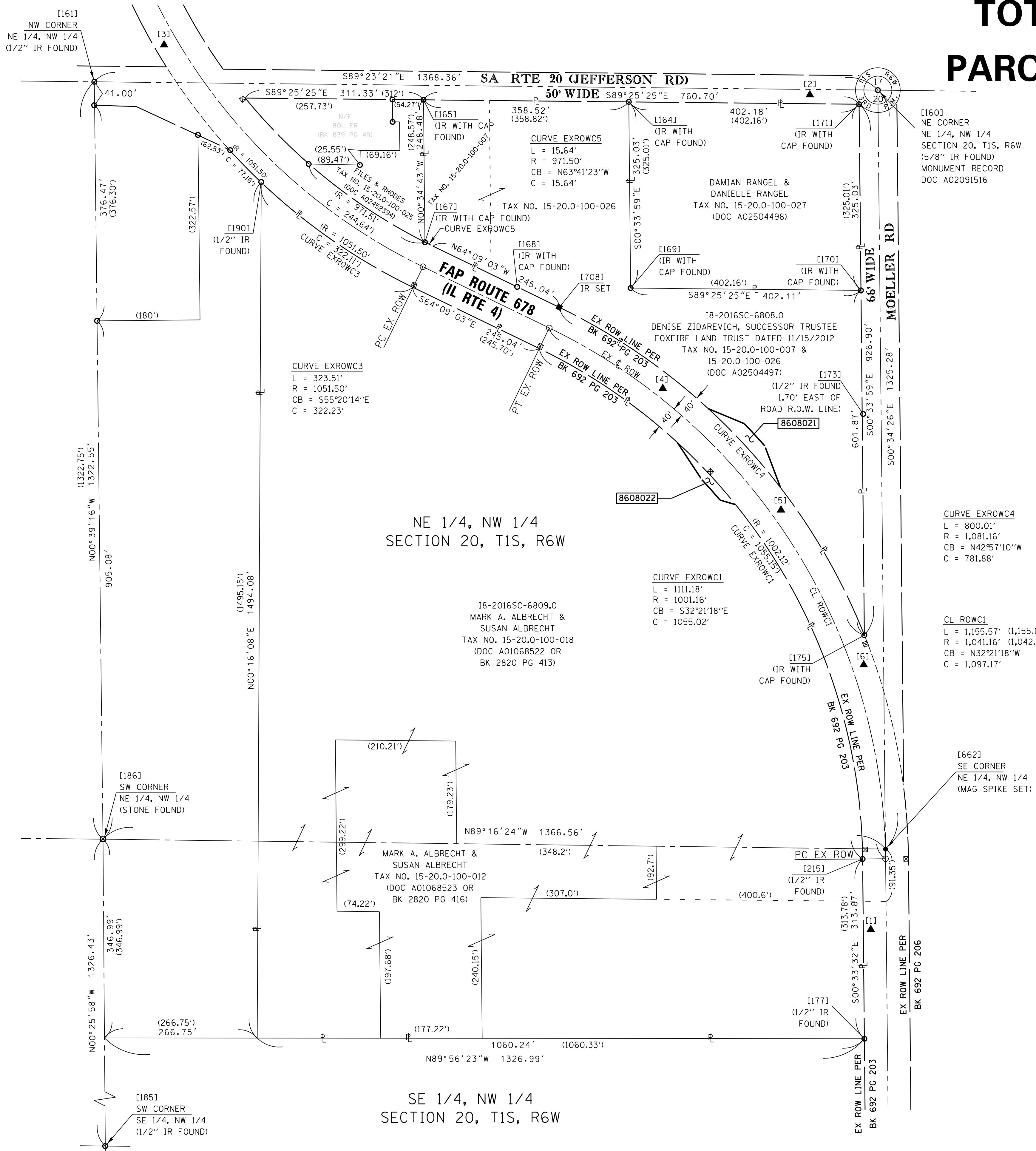
COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 10/14/2016	ROW STAKING:

FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT

TOTAL HOLDING SKETCH PARCELS 8608021 & 8608022



SPACE RESERVED FOR RECORDING OFFICER



COORDINATE TABLE				
[PNT #]/DESCRIPTION	STATION	OFFSET	NORTH	EAST
[160]/(5/8") IR FOUND N 1/4 CORNER	226+48.11	685.51'RT	645,399.8630	404,739.1060
[161]/(1/2") IR FOUND NW CORNER NE 1/4, NW 1/4			645,414.4480	403,370.8240
[185]/(1/2") IR FOUND SW CORNER SE 1/4, NW 1/4			642,765.5880	403,395.9440
[186]/STONE FOUND SW CORNER NE 1/4, NW 1/4			644,091.9830	403,385.9280
[662]/MAG SPIKE SET SE CORNER NE 1/4, NW 1/4	217+16.39	0.41'RT	644,074.6495	404,752.3781
[164]/IR WITH CAP FOUND	229+01.35	416.19'RT	645,379.4100	404,304.1960
[165]/IR WITH CAP FOUND	232+67.99	252.25'RT	645,382.9800	403,945.6960
[167]/IR WITH CAP FOUND	231+15.17	40.26'RT	645,134.3910	403,948.2060
[168]/IR WITH CAP FOUND	229+35.57	40.52'RT	645,056.3570	404,109.2460
[169]/IR WITH CAP FOUND	227+67.38	129.56'RT	645,054.2949	404,307.4098
[170]/IR WITH CAP FOUND	225+08.90	375.09'RT	645,050.2500	404,709.5030
[171]/IR WITH CAP FOUND	226+55.10	619.13'RT	645,375.2600	404,706.3630
[173]/(1/2") IR FOUND	223+81.71	234.45'RT	644,834.3570	404,713.4090
[175]/IR WITH CAP FOUND	220+84.19	41.38'RT	644,448.2220	404,715.5270
[177]/(1/2") IR FOUND			643,743.6050	404,715.5410
[190]/(1/2") IR FOUND	234+10.65	39.29'LT	645,239.6190	403,662.3130
[215]/(1/2") IR FOUND	216+99.80	39.87'LT	644,057.4570	404,712.4790

SEE COORDINATE TABLE ON SHEET 2 FOR I.D.O.T. PROVIDED CONTROL AND ALIGNMENTS.

API Survey LLC
17625 Mockingbird Road
P.O. Box 333
Nashville, Illinois 62263
Fax 618-478-9001
Ph. 618-478-9000
Email: gary@apisurvey.com
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ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 678 (IL 4)
SECTION 50,52CLV-1
ST. CLAIR COUNTY
JOB NO. R-98-008-16

STATION 216+95 TO STATION 228+57



ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

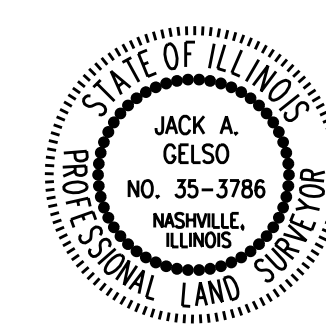
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50,52CLV-1	ST. CLAIR	21	10

STATE OF ILLINOIS)
) SS
COUNTY OF WASHINGTON)

I, JACK A. GELSO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 6/30/2017

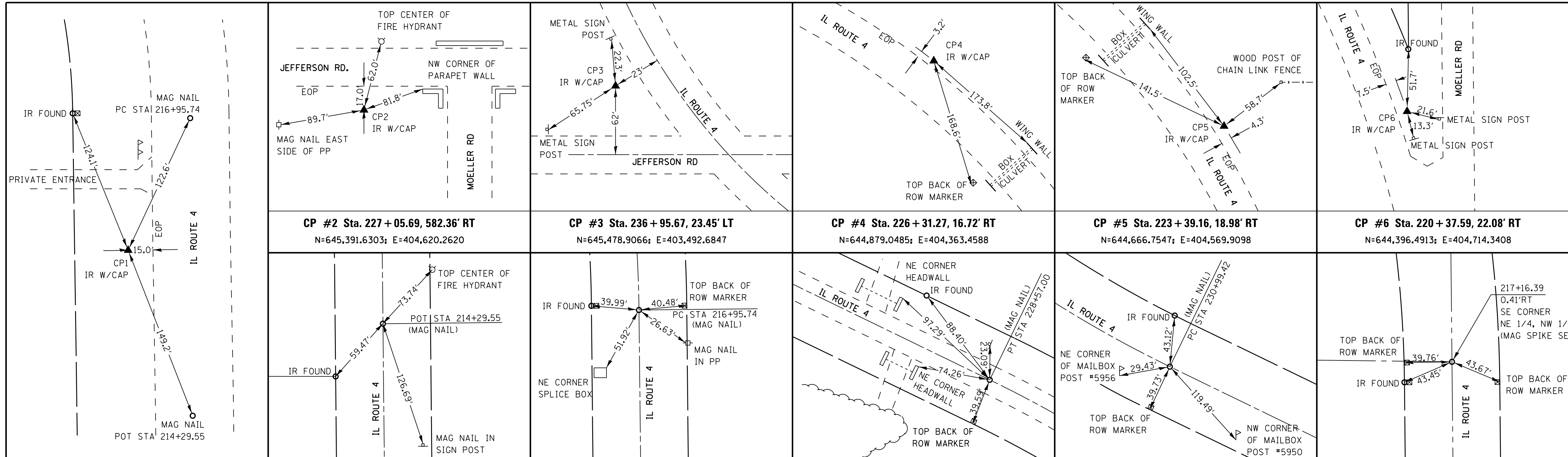
JACK A. GELSO, PLS NO. 3786
LICENSE EXPIRATION DATE: 11/30/2018



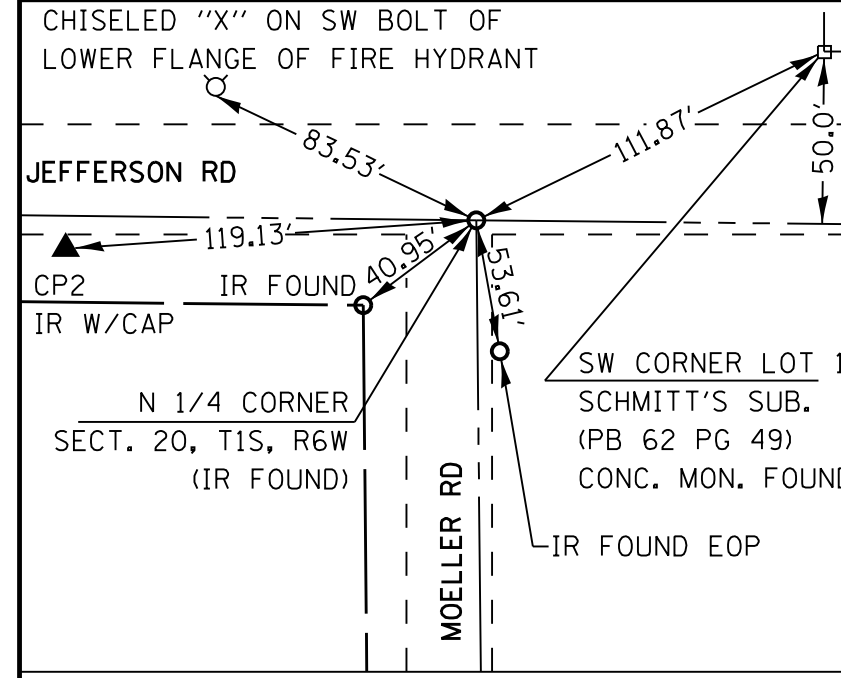
COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	10/14/16
ROW STAKING:	

FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT

SECTION CORNER, CONTROL, AND CENTERLINE TIE SHEET



CP #1 Sta. 215 + 76.26, 26.95' LT N=643,934.2238; E=404,726.7502	POT Sta. 214 + 29.55 N=643,787.8148; E=404,755.2917	PC Sta. 216 + 95.74 N=644,053.9899; E=404,752.3930	PT Sta. 228 + 57.00 N=644,985.5801; E=404,162.2053	PC Sta. 230 + 99.42 N=645,091.5203; E=403,944.1578	SE CORNER NE 1/4, NW 1/4 SECTION 20, T1S, R6W N=644,074.6495; E=404,752.3781
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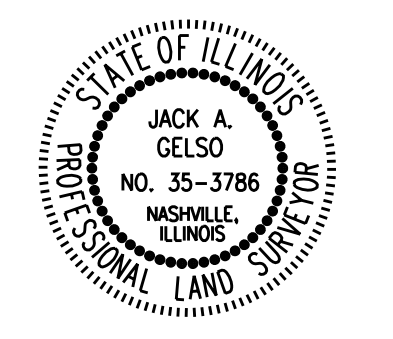
N 1/4 CORNER SECTION 20, T1S, R6W
N=645,399.8630; E=404,739.1060
DOC. NO. A02091516

N

SPACE RESERVED FOR RECORDING OFFICER

6/30/2017

JACK A. GELSO, IPLS # 3786
EXPIRATION DATE: 11-30-2018

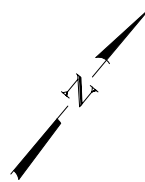


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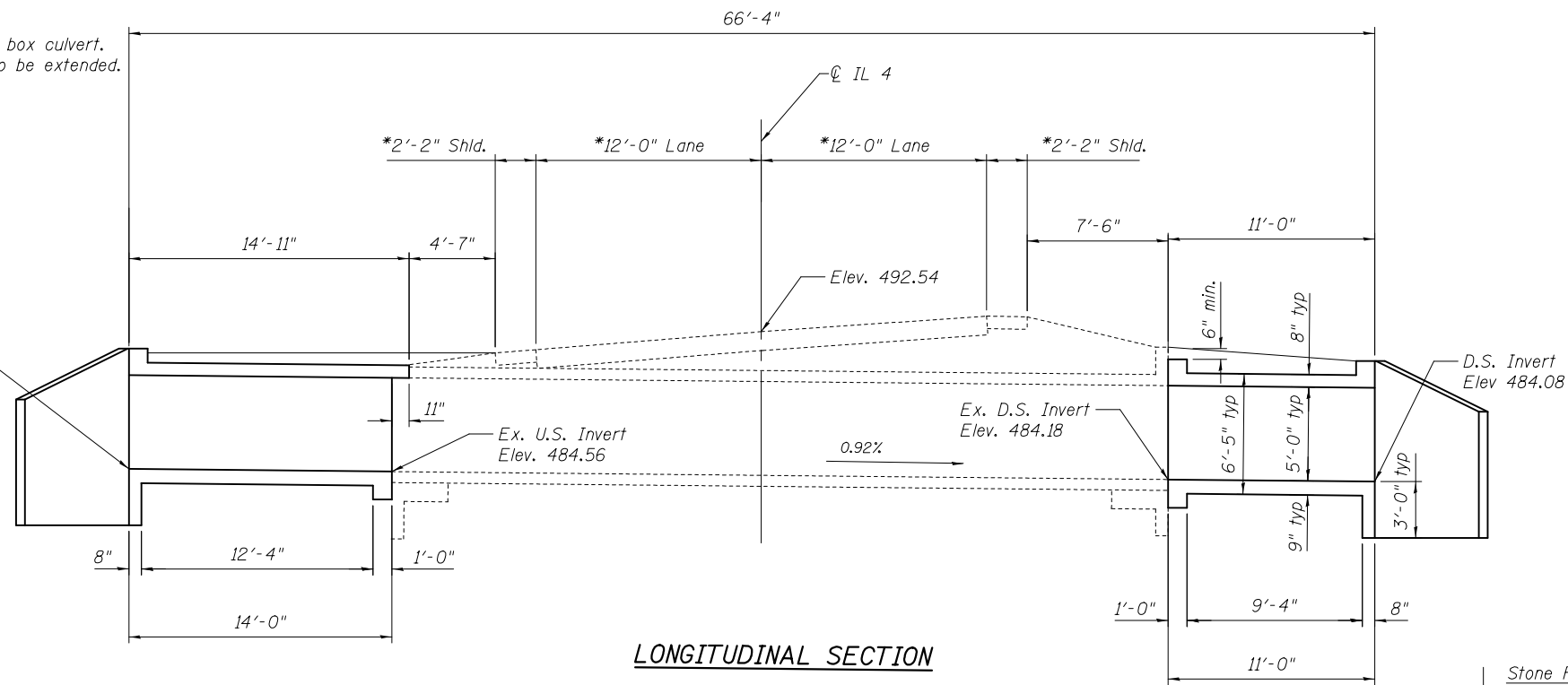
COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	10/14/16	ROW STAKING:	
ILLINOIS DEPARTMENT OF TRANSPORTATION PLAT OF HIGHWAYS FAP ROUTE 678 (IL 4) SECTION 50,52CLV-1 ST. CLAIR COUNTY JOB NO. R-98-008-16 SECTION CORNER, CONTROL, AND CENTERLINE TIE SHEET			
NOT TO SCALE		SHEET 5 OF 5	
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
678	50,52CLV-1	ST. CLAIR	21
		CONTRACT NO.	11
		76J79	
FED. ROAD DIST. NO. 8 [ILLINOIS] FED. AID PROJECT			

Existing Structure: A simple 3' x 5' box culvert.
The structure to be extended.

No salvage



U.S. Invert
Elev. 484.69



LONGITUDINAL SECTION

* Measured radially at ϕ of structure

GENERAL NOTES

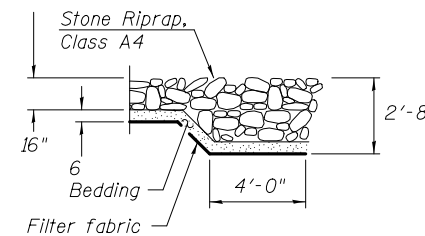
Precast alternate is not allowed

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and $\frac{3}{4}$ " ϕ x 12" hooked bolts.

For backfilling and embankment see Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

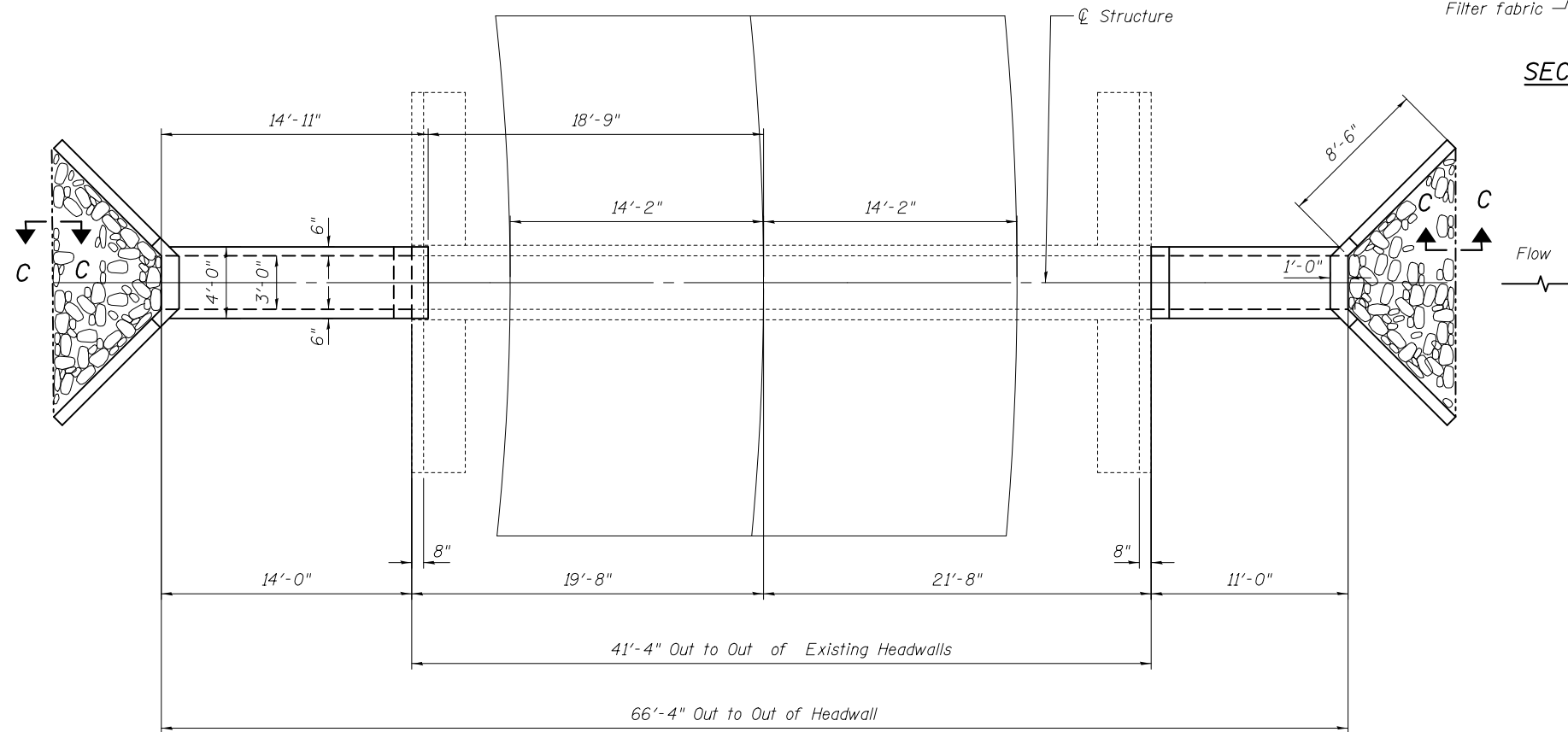
Existing reinforcement bars extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



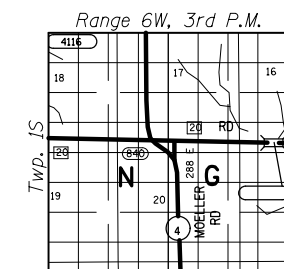
SECTION C-C

INDEX OF SHEETS

1. General Plan
2. Longitudinal Section (W. Extension)
3. Longitudinal Section (E. Extension)
4. Plan (W. Extension)
5. Plan (E. Extension)
6. Culvert Details
7. For Information Only (F.I.O)- Existing Culvert



PLAN



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	13
Filter Fabric	Sq. Yd.	13
Concrete Removal	Cu. Yd.	0.2
Reinforcement Bars	Pound	3000
Expansion Bolts $\frac{3}{4}$ "	Each	24
Concrete Box Culverts	Cu. Yd.	17.8
Membrane Waterproofing for Buried Structures	Sq. Yd.	19

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CHECKED -	REVIS
DRAWN - AYV	REVIS
CHECKED -	REVIS

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

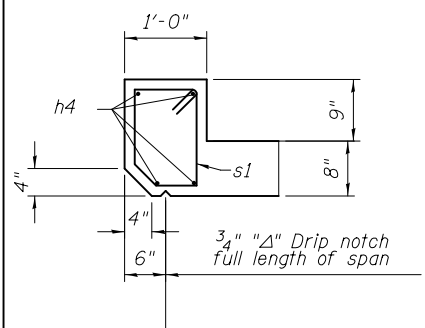
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN (IL 4 from Jefferson Rd to Moeller Rd)
SN 082-2406**

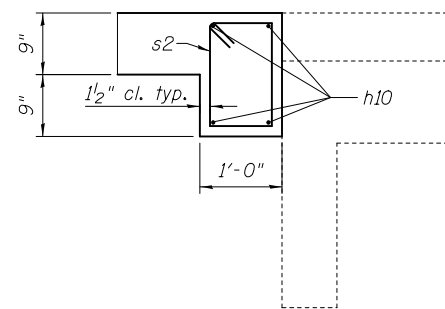
SHEET NO. 1 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76J79				

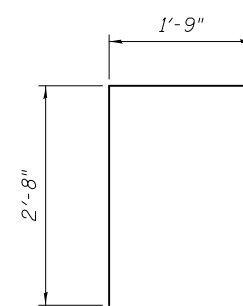
ILLINOIS FED. AID PROJECT



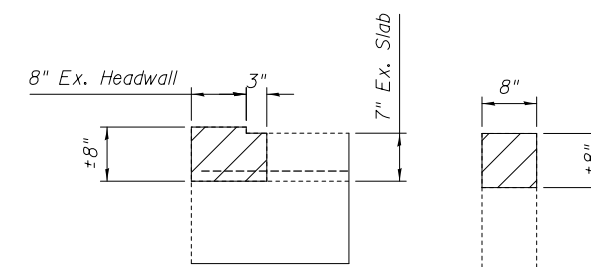
SECTION THRU UPSTREAM HEADWALL



SECTION THRU BOTTOM EDGE BEAM

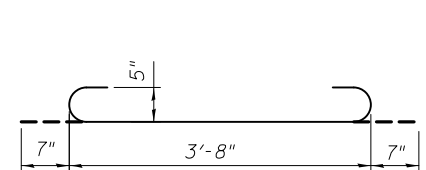


BAR d

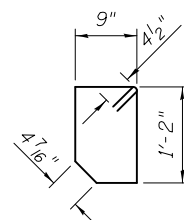


SECTION A-A

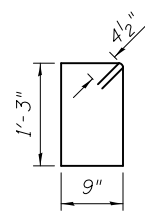
SECTION B-B



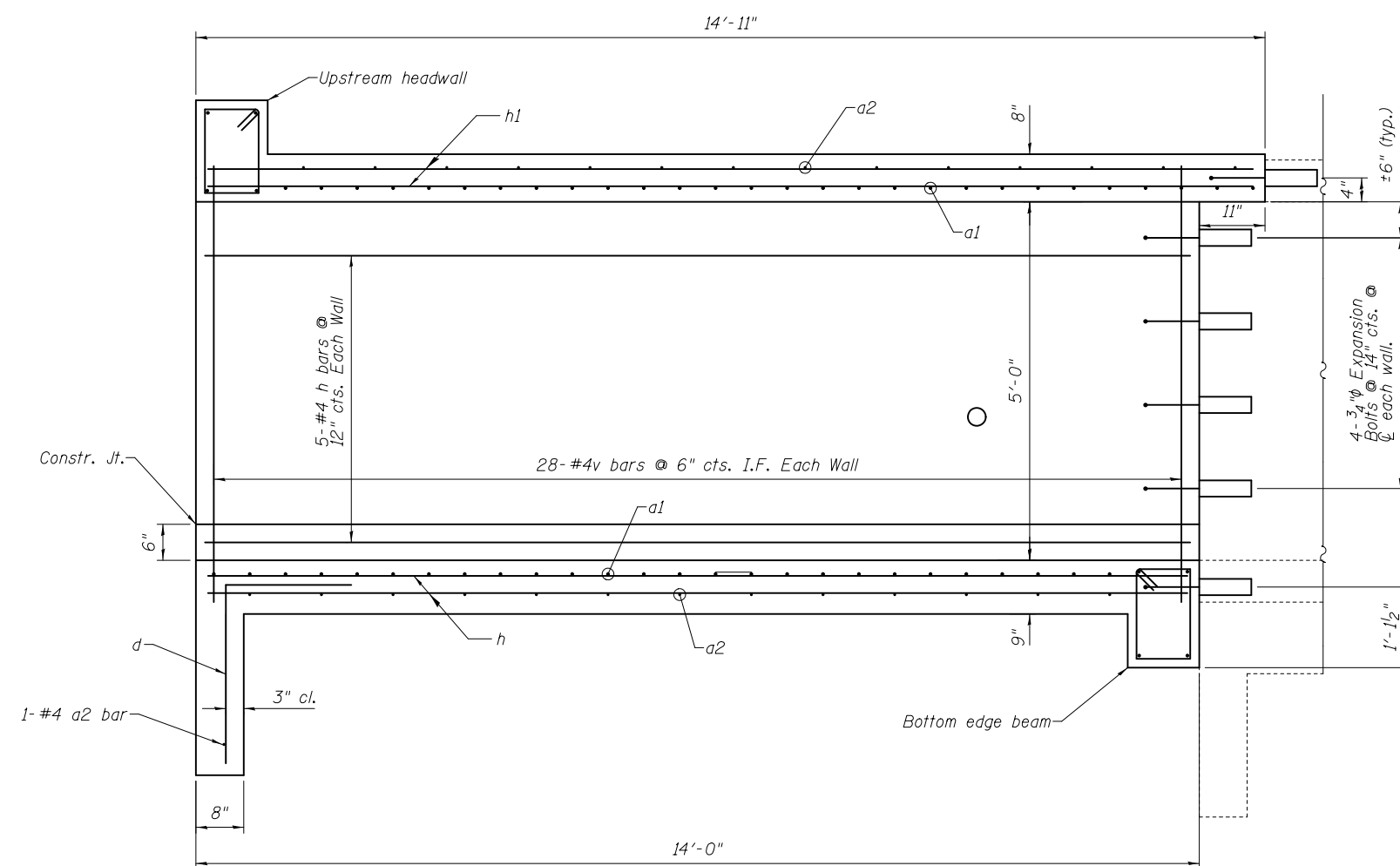
BAR a1



BAR s1

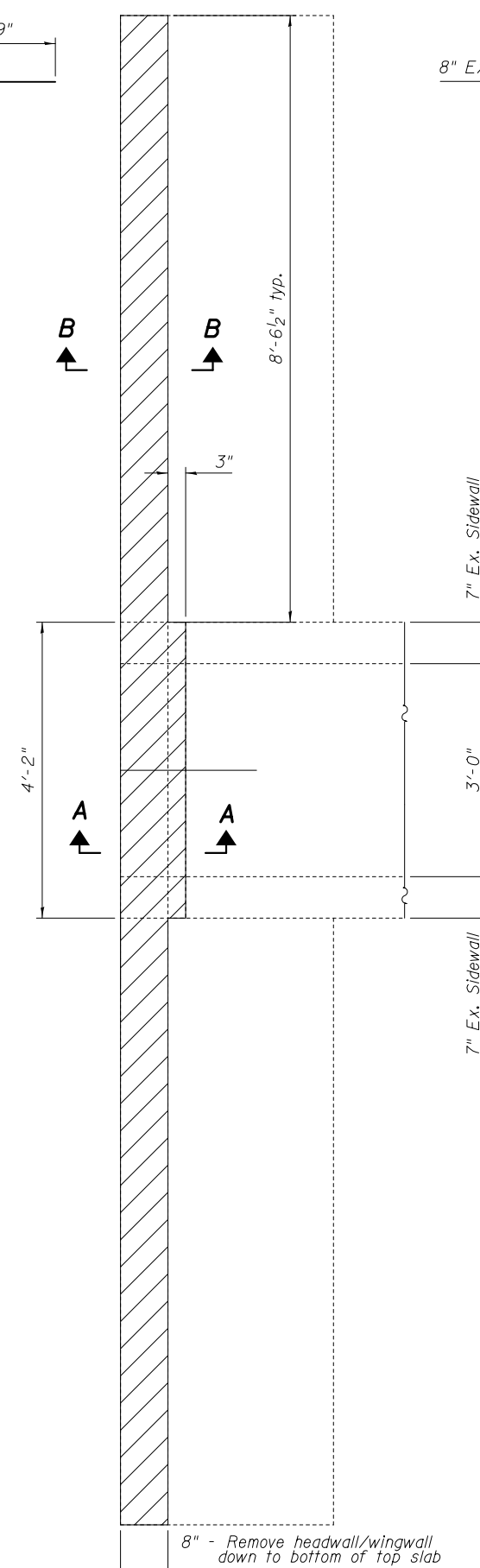


BAR s2



LONGITUDINAL SECTION

(West extension, looking north)



PLAN

(Removal of ex. west headwall/wingwall)



Concrete Removal

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	92	#5	4'-10"	U
a2	48	#4	3'-3"	—
d	8	#4	4'-5"	J
h	18	#4	13'-8"	—
h1	8	#4	14'-7"	—
h3	64	#5	8'-0"	—
h4	8	#6	2'-10"	—
h5	26	#4	10'-8"	—
h8	64	#5	11'-6"	—
h10	12	#6	3'-8"	—
s	8	#4	4'-7"	□
s1	4	#4	4'-6"	□
s2	8	#4	4'-9"	□
v	104	#4	6'-1"	—
v1	16	#4	9'-2"	—
Concrete Removal			Cu. Yd.	0.2
Concrete Box Culverts			Cu. Yd.	17.8
Reinforcement Bars			Pound	3000
Expansion Bolts 3/4"			Each	24

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DESIGNED - AYV	DATE -
CHECKED -	REVISOR -
DRAWN - AYV	REVISOR -
CHECKED -	REVISOR -

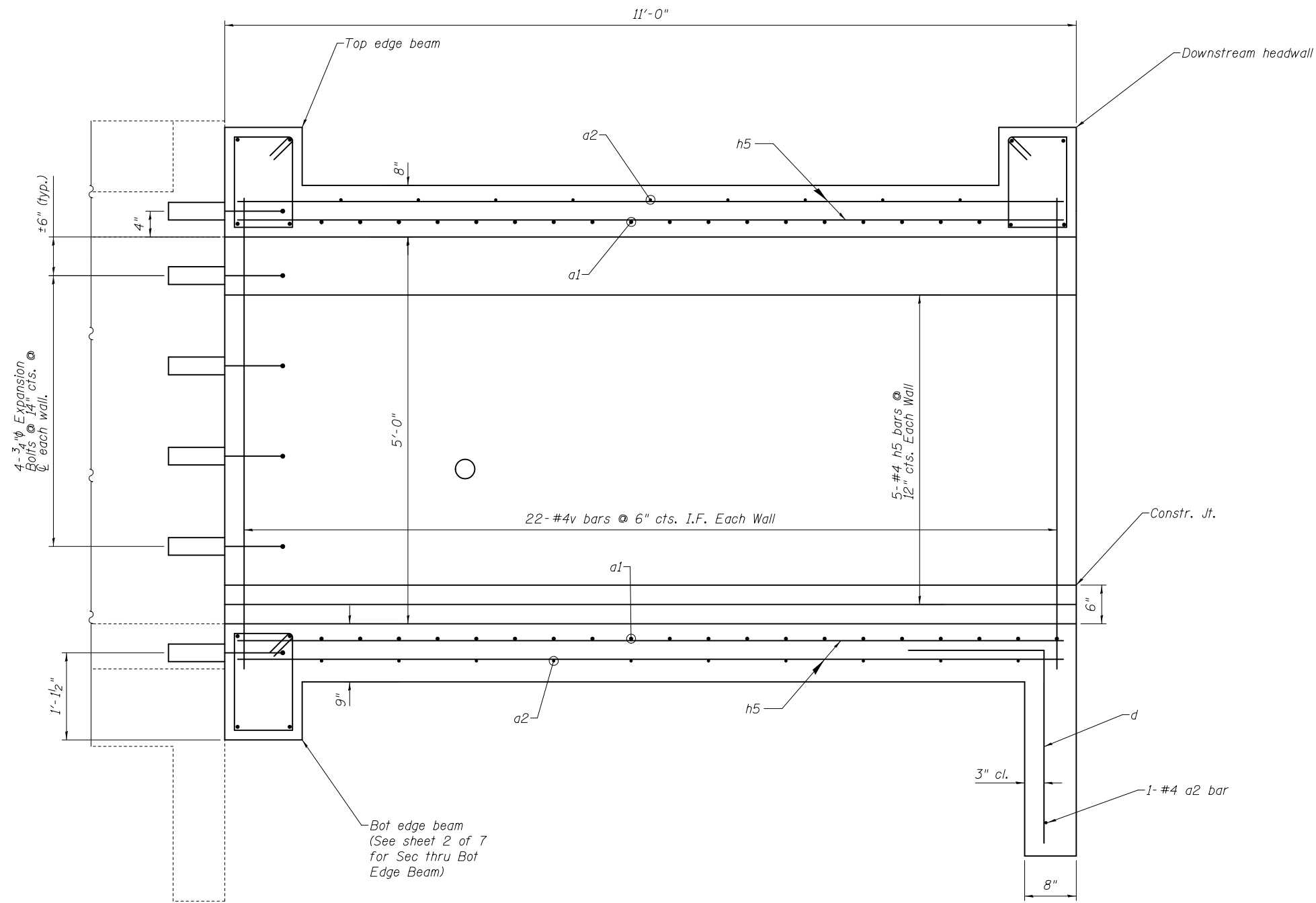
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LONGITUDINAL SECTION (W. Extension)
SN 082-2406**

SHEET NO. 2 OF 7 SHEETS

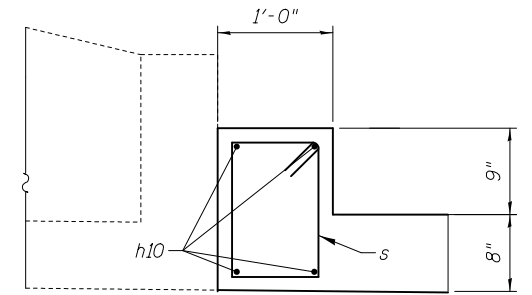
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50,52 CLV-1	ST CLAIR	21	13
CONTRACT NO. 76J79				

ILLINOIS FED. AID PROJECT

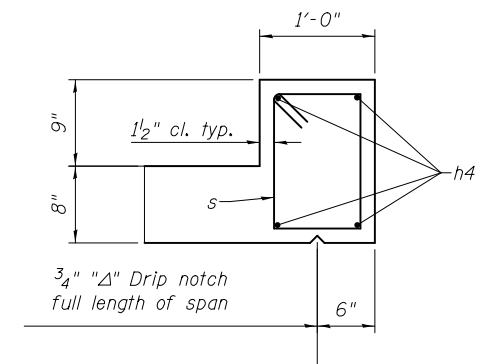


LONGITUDINAL SECTION

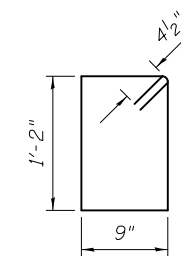
(East extension, looking north)



SECTION THRU TOP EDGE BEAM



SECTION THRU DOWNSTREAM HEADWALL



BAR s

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CHECKED -		REVISD
DRAWN - AYV		REVISD
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	

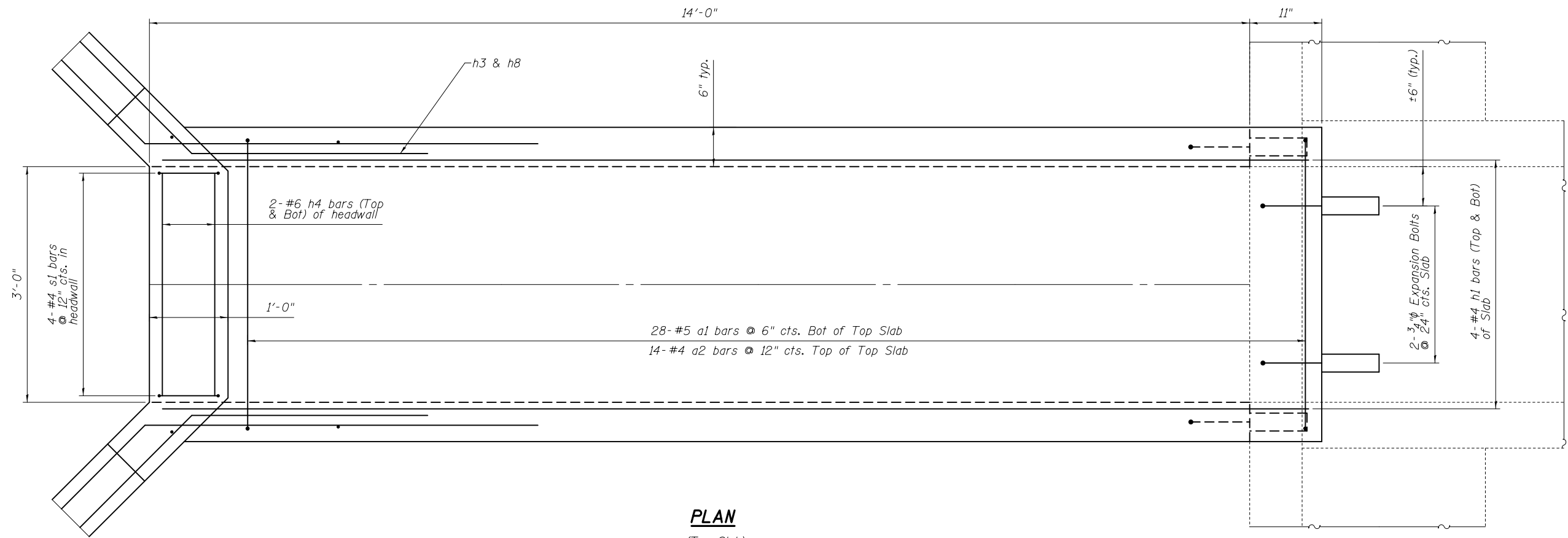
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LONGITUDINAL SECTION (E. Extension)
SN 082-2406

SHEET NO. 3 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50,52 CLV-1	ST CLAIR	21	14
CONTRACT NO. 76J79				

ILLINOIS FED. AID PROJECT



PLAN

(Top Slab)



PLAN

(Bot Slab)

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CHECKED -	
DRAWN -	AYV
CHECKED -	

PASSED	_____	DATE -	_____
ENGINEER OF BRIDGES AND STRUCTURES		REVISED	_____
		REVISED	_____

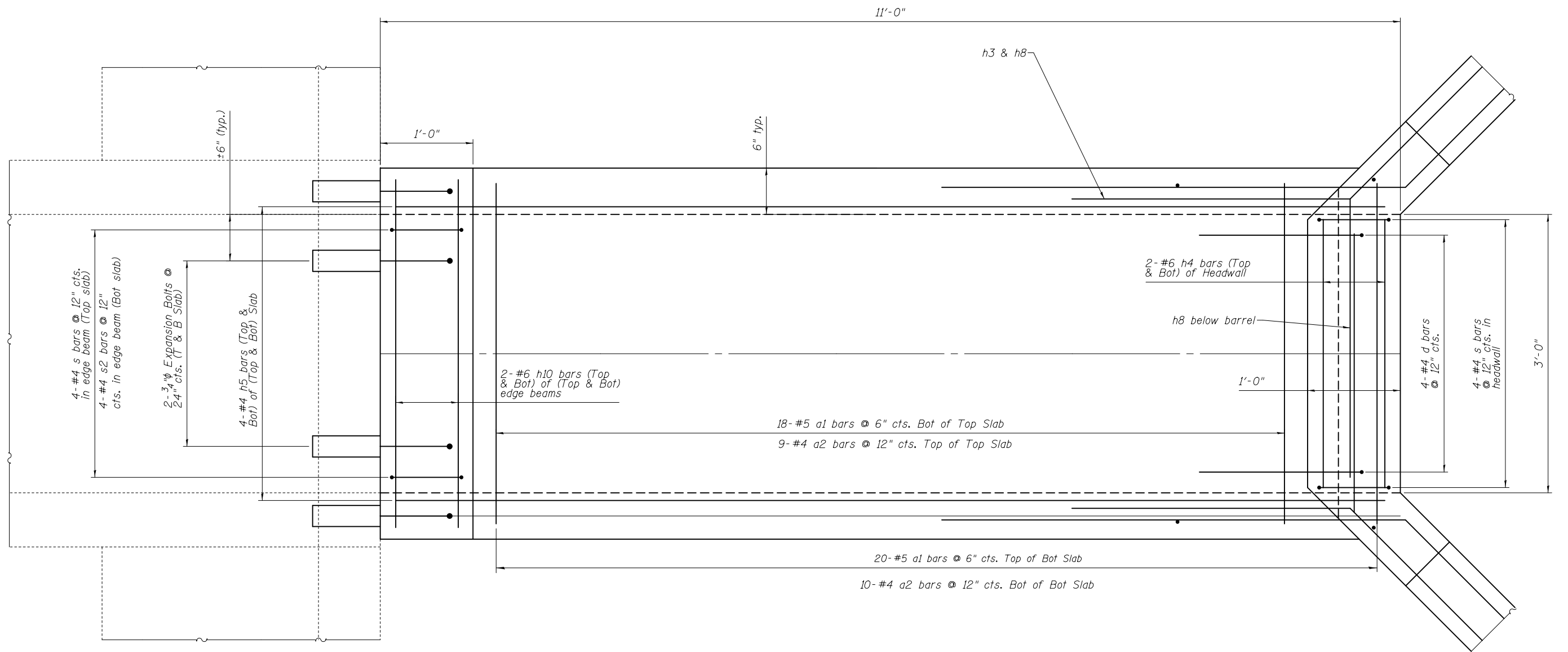
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN (W. Extension)
082-2406

SHEET NO. 4 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50, 52 CLV-1	ST CLAIR	21	15
CONTRACT NO. 76J79				

ILLINOIS FED. AID PROJECT



PLAN

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CHECKED -	REVIS

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

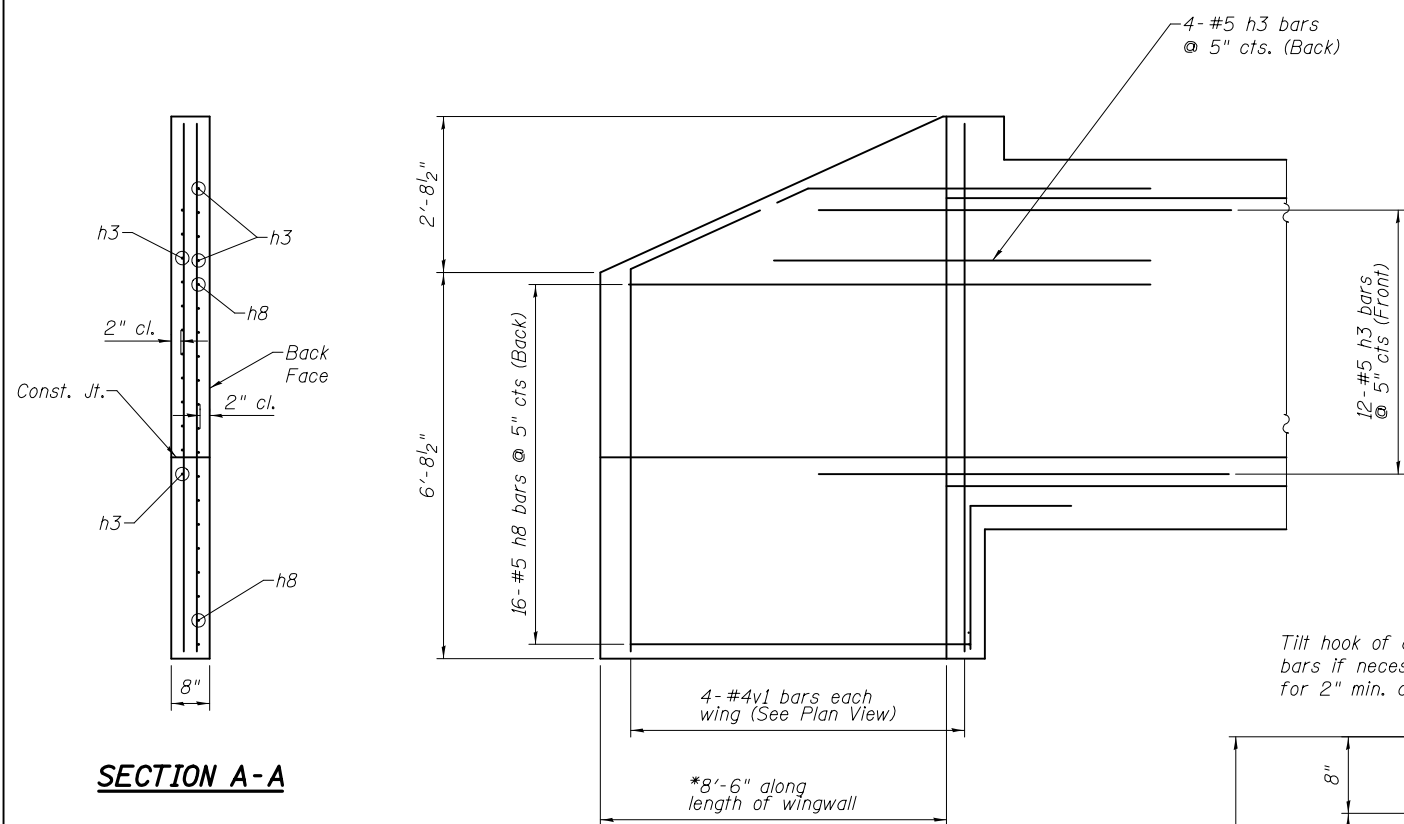
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN (E. Extension)
SN 082-2406**

SHEET NO. 5 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50, 52 CLV-1	ST CLAIR	21	16
CONTRACT NO. 76J79				

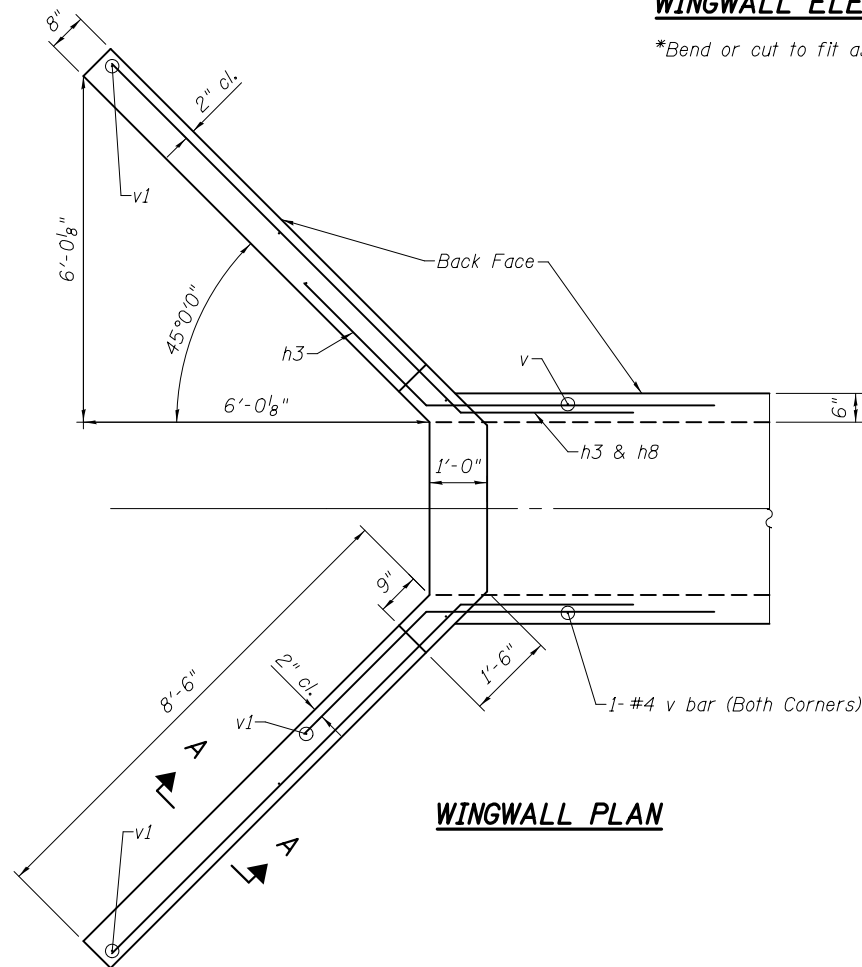
ILLINOIS FED. AID PROJECT



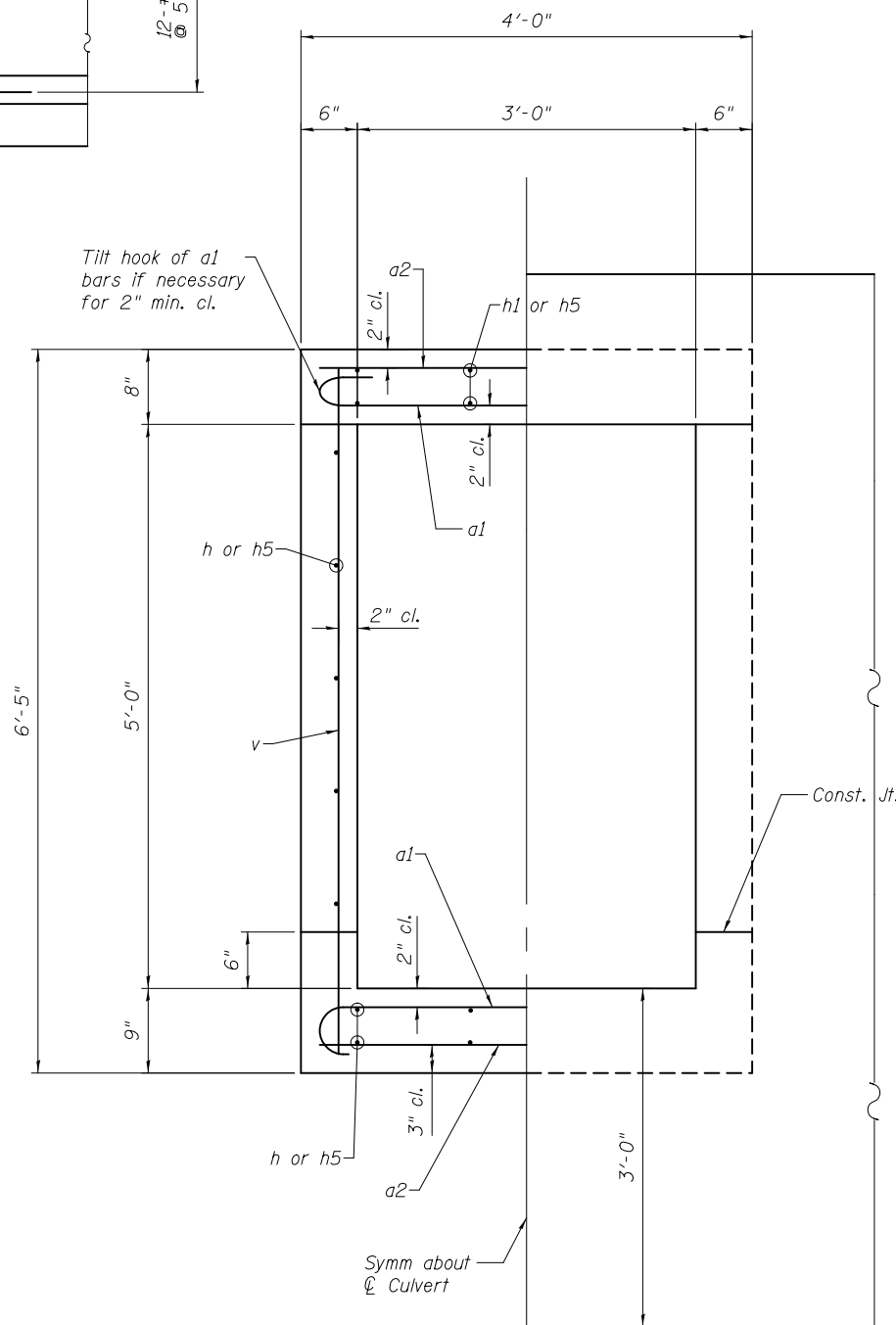
SECTION A-A

WINGWALL ELEVATION

*Bend or cut to fit as required

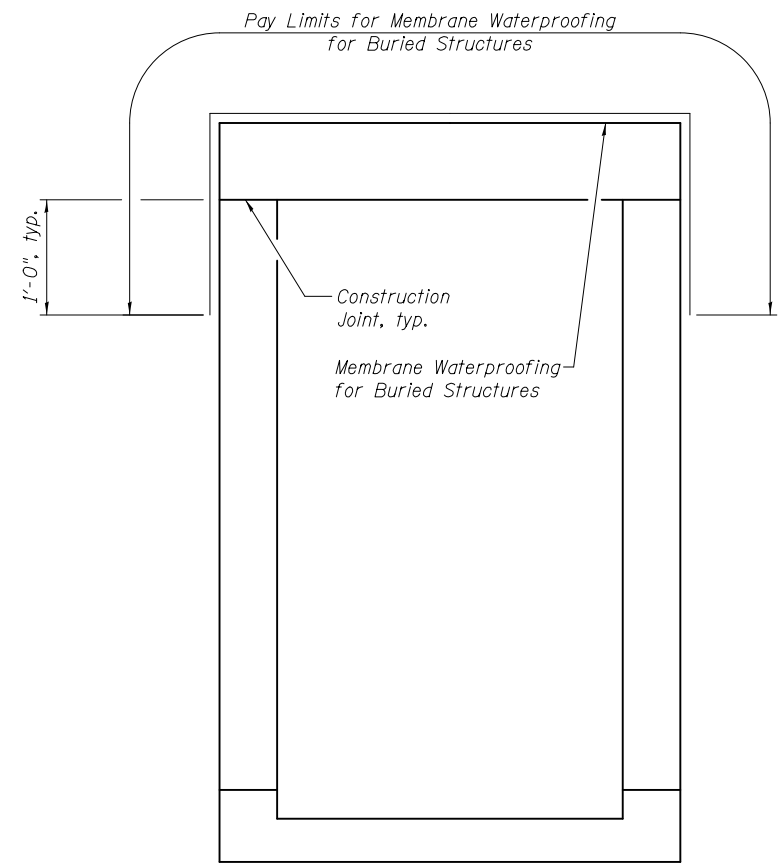


WINGWALL PLAN

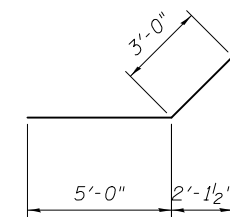


HALF SEC THRU BARREL

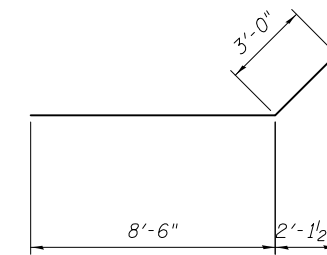
HALF END ELEVATION



MEMBRANE WATERPROOFING DETAILS



BAR h3



BAR h8

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DRAWN - AYV	REVISED
CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

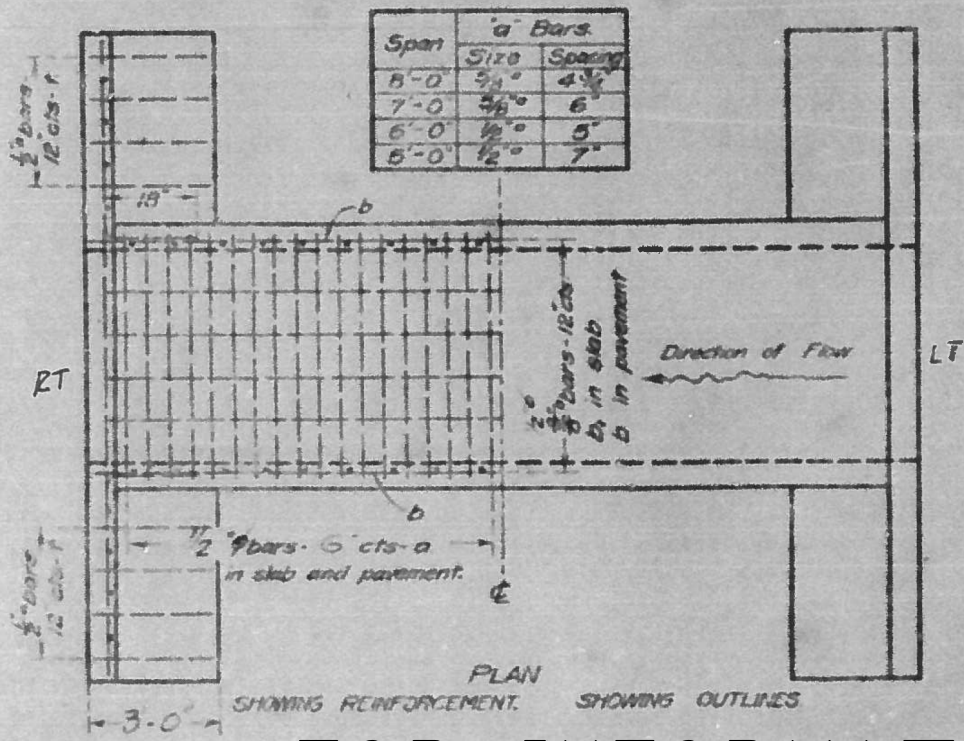
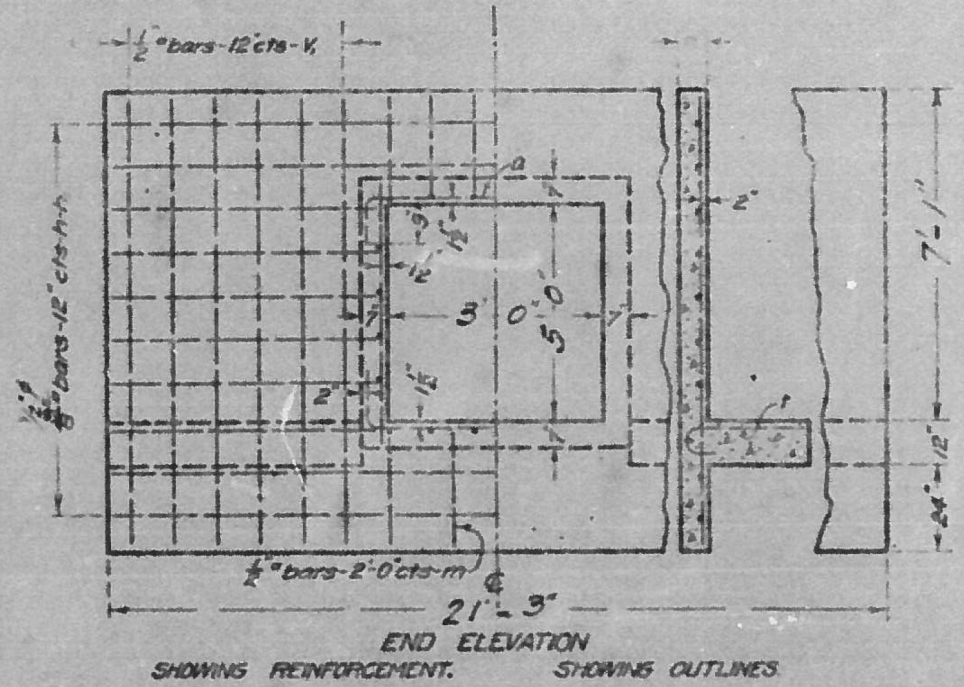
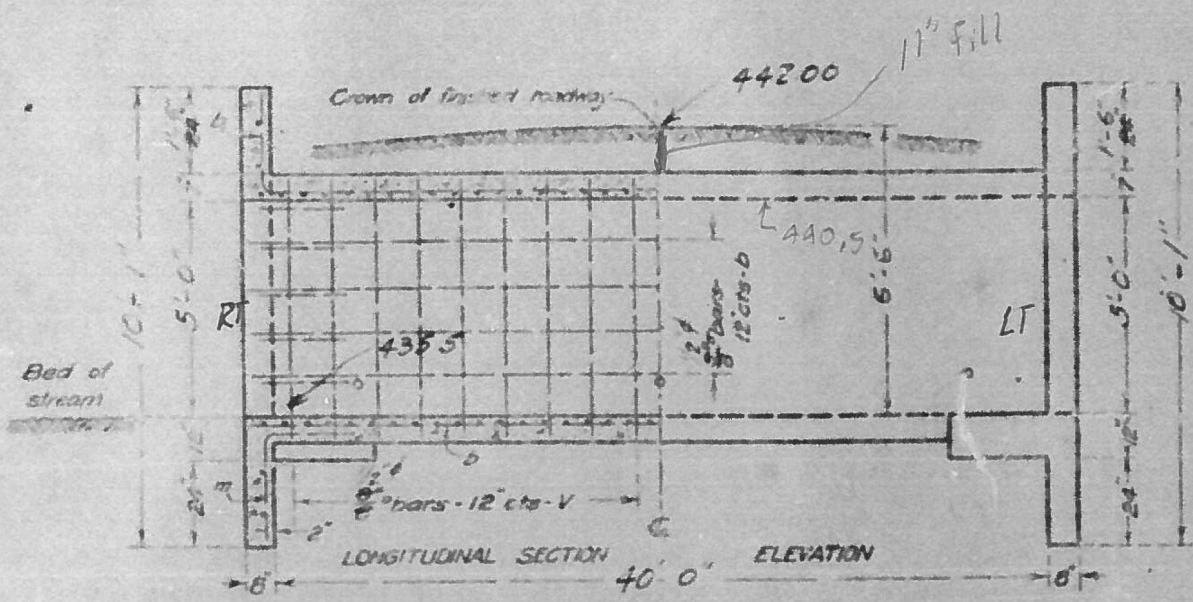
CULVERT DETAILS
SN 082-2406

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50,52 CLV-1	ST CLAIR	21	17
CONTRACT NO. 76J79				

SHEET NO. 6 OF 7 SHEETS

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
REINFORCED CONCRETE BOX CULVERT



Note - Use 'm' bars in downstream headwall only.
Box is designed for no fill.
Maximum clearance = 7'-6"

**BUILD TOPS OF HEAD-WALLS
PARALLEL TO GRADE LINE.**
**ADJUST HEIGHT OF HEAD
WALLS TO BE 12 INCHES ABOVE
SHOULDER ELEVATION.**

BILL OF MATERIAL

Bars	No.	Size	Length
v	80	3/8"	5'-9" 2'
v	32	1/2"	9'-9" 2'
n	10	3/8"	20'-9" 1/2'
n	20	3/8"	9'-9" 2'
a	62	1/2"	5'-6"
b	28	3/8"	21'-6"
b	8	3/8"	22'-9"
r	32	1/2"	3'-6"
m	2	1/2"	5'-0"
Steel-Lbs.			2010
Concrete-Cu Yds			28.5

Class A concrete to be used throughout
Proportions 1-24-4.

FOR INFORMATION ONLY

PASSED BY
[Signature]

STA 224+50
SEC 52-15d
ST. CLAIR Co ILLINOIS

DESIGNED	AYV
CHECKED	-
DRAWN	AYV
CHECKED	-

PASSED	DATE -
ENGINEER OF BRIDGES AND STRUCTURES	REVISED
	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

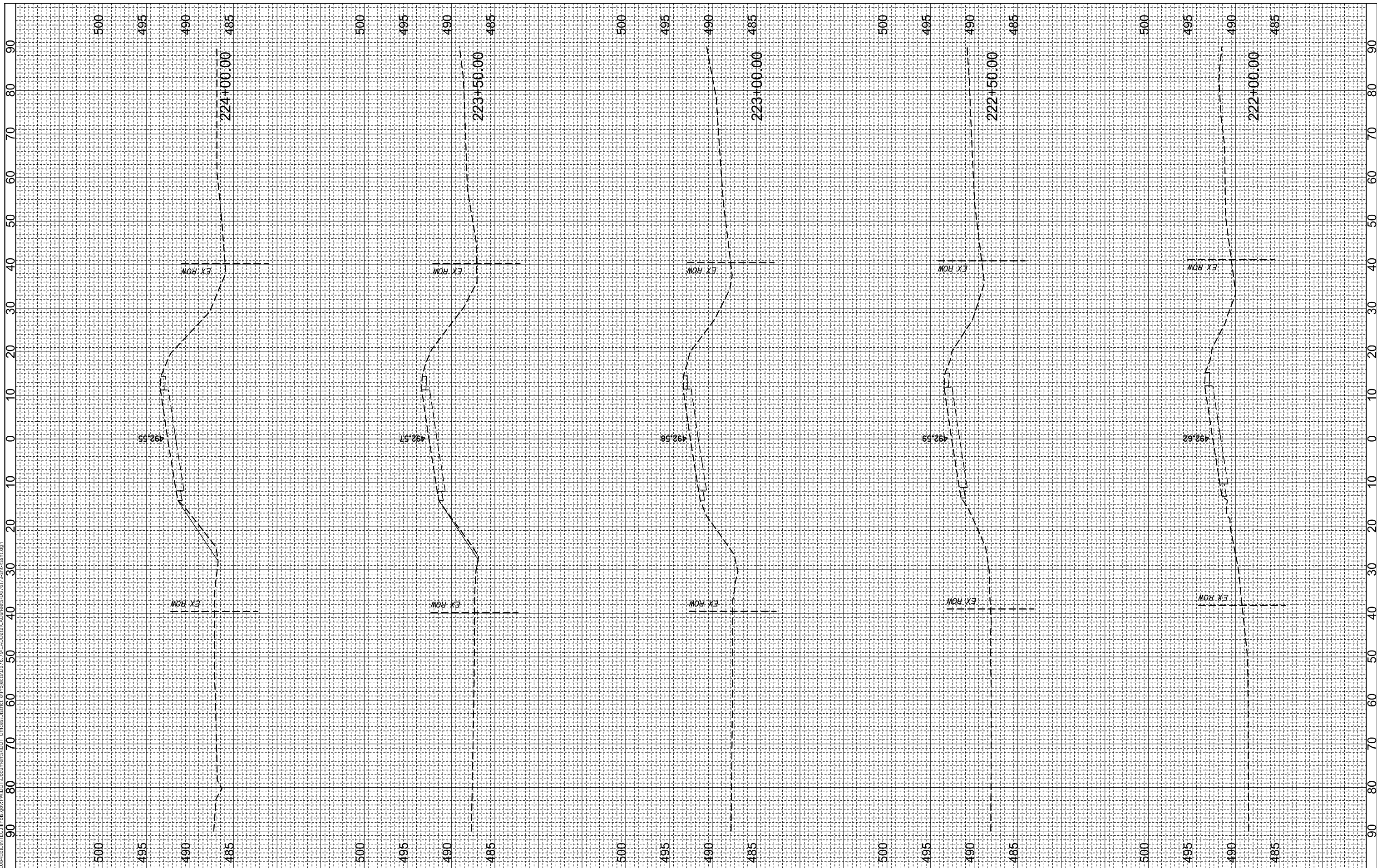
FOR INFORMATION ONLY-EXISTING CULVERT
SN 082-2406

SHEET NO. 7 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	50, 52 CLV-1	ST CLAIR	21	18
CONTRACT NO. 76J79				
ILLINOIS FED. AID PROJECT				

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USER NAME = smithma
 PLOT SCALE = 60000.0000' / in.
 PLOT DATE = 2/23/2018

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

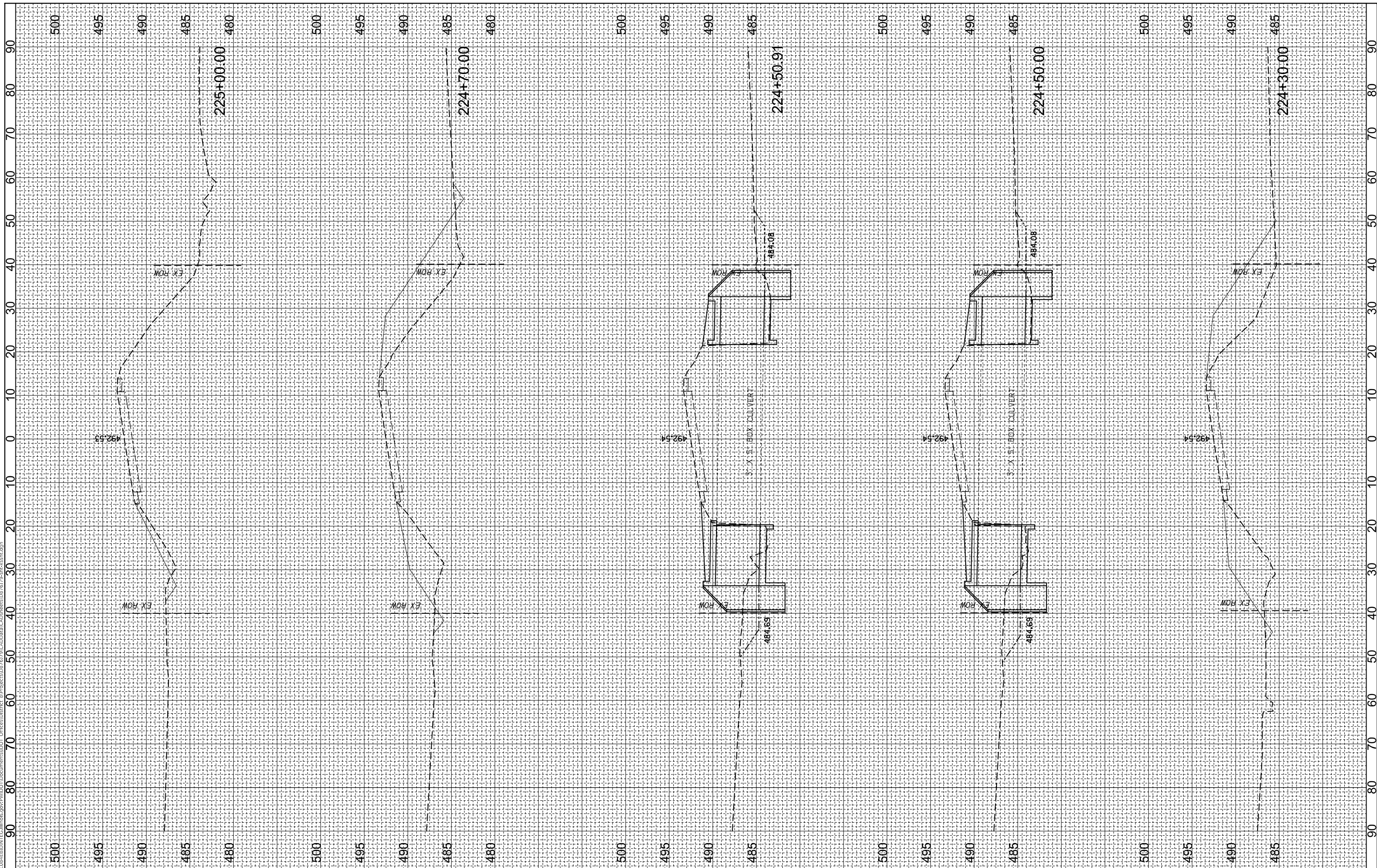
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 1 OF 3 SHEETS STA. 222+00 TO STA. 224+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50, 52 CLV-1	ST. CLAIR	21	19
CONTRACT NO. 76J79				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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USER NAME = smrhma
 PLOT SCALE = 60000.0000" / in.
 PLOT DATE = 2/23/2018

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 DATE -

REVISED -
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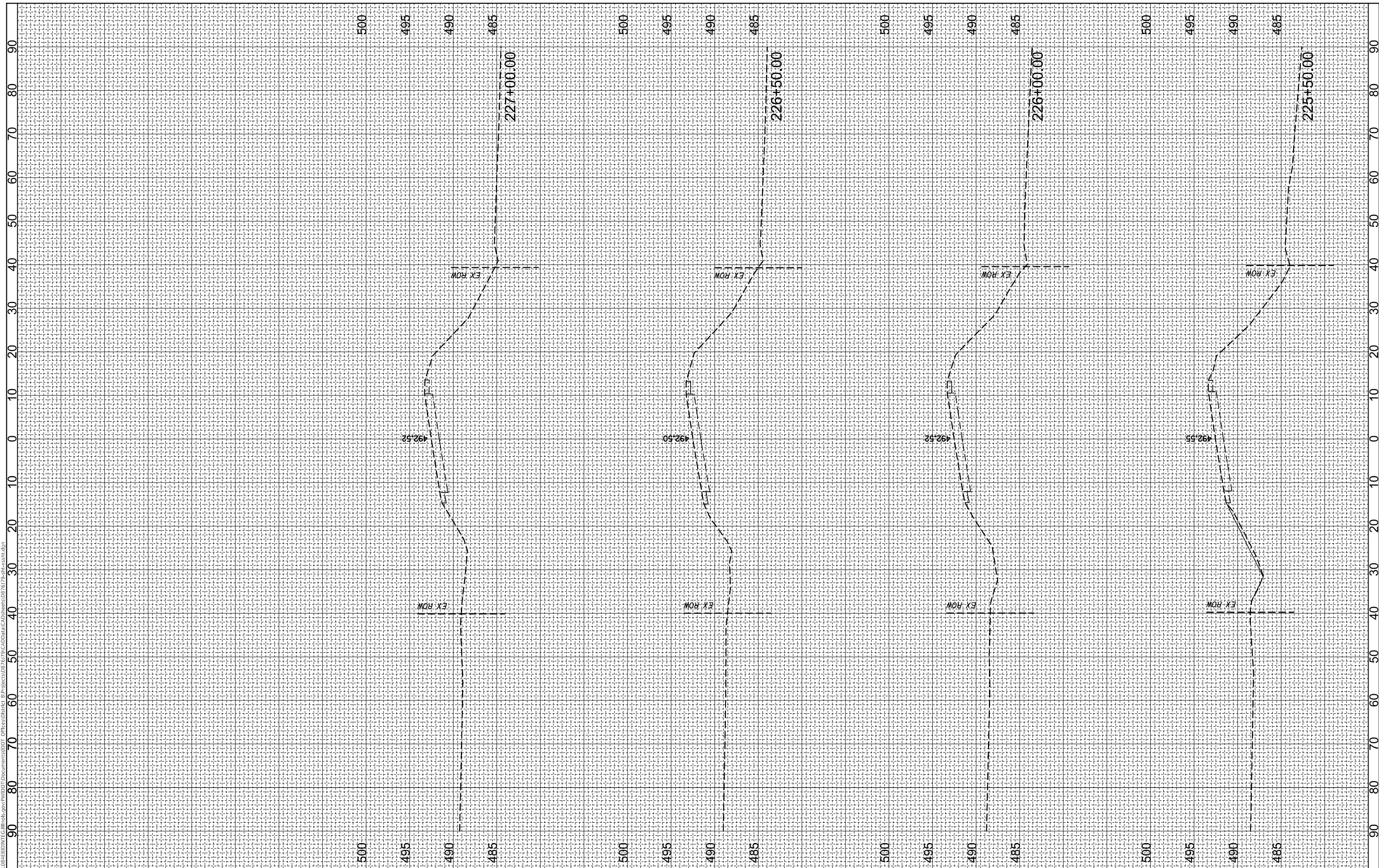
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 2 OF 3 SHEETS STA. 224+30 TO STA. 225+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50, 52 CLV-1	ST. CLAIR	21	20
CONTRACT NO. 76J79				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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USER NAME = smrhma
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 PLOT DATE = 2/23/2018

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 3 OF 3 SHEETS STA. 225+50 TO STA. 227+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
678	50, 52 CLV-1	ST. CLAIR	21	21
CONTRACT NO. 76J79				
ILLINOIS		FED. AID PROJECT		