

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	1
ILLINOIS				

# PROPOSED ROADWAY PLANS

FAU ROUTE 9377 /IL ROUTE 177 (MAIN STREET)

CITY OF MASCOUTAH

ST. CLAIR COUNTY

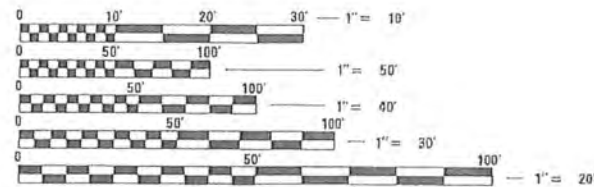
SECTION 14-00025-00-PV

C-98-354-16

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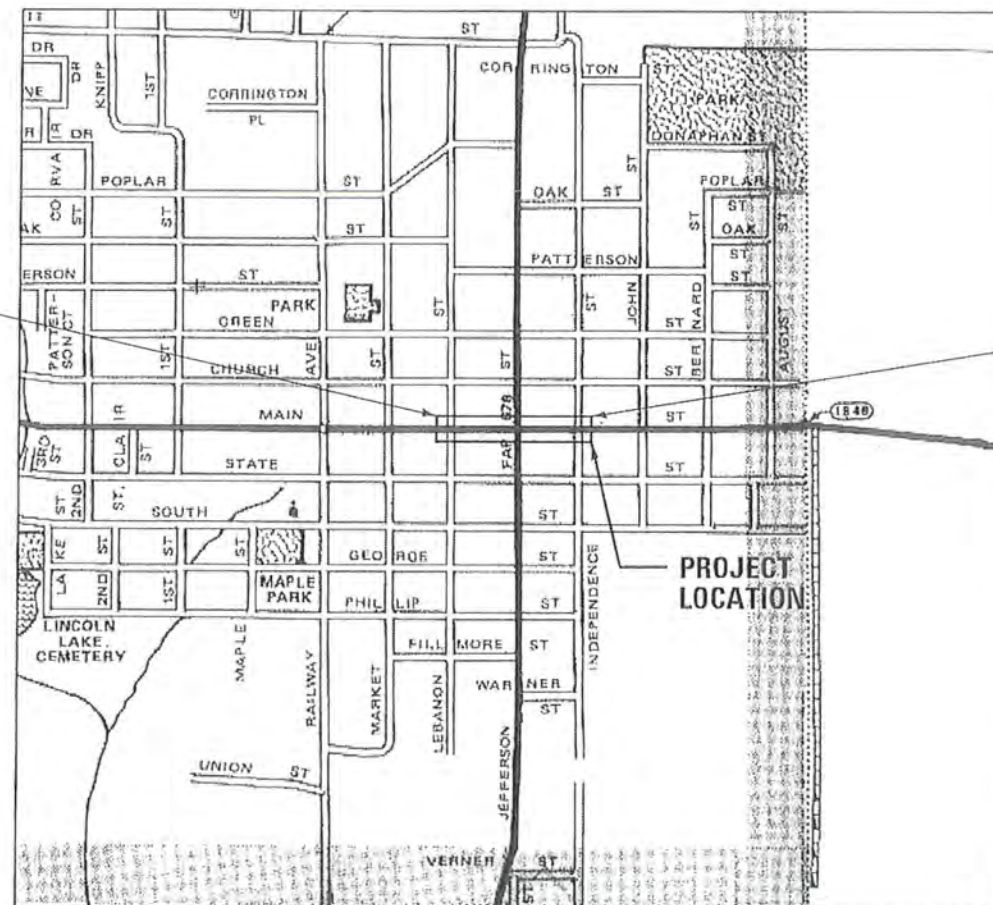
**IL ROUTE 177 (MAIN ST)**  
**FUNCTIONAL CLASSIFICATION:**  
**MAJOR COLLECTOR (NON-URBAN)**  
**DESIGN SPEED: 30 MPH**  
**2016 ADT=4,900**  
**2036 ADT=6,160**  
**FUNDING:**  
**POLICY UTILIZED: RECONSTRUCTION**



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

BEGIN PROJECT  
 STA. 618 + 23.00



END PROJECT  
 STA. 626 + 35.00



LOCATION OF SECTION INDICATED THUS: —

CITY OF MASCOUTAH

APPROVED March 27, 2020  
Derald F. Daugherty  
 MAYOR OF MASCOUTAH

PASSED April 30, 2020  
Tom Schauer  
 DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW April 30, 2020  
Keith Roberts  
 REGION FIVE ENGINEER

GROSS LENGTH = 812.00 FT. = 0.154 MILE  
 NET LENGTH = 812.00 FT. = 0.154 MILE

SIGNATURE Shelley L. Dintelman  
 DATE SIGNED: 4/1/2020  
 LICENSE EXPIRES: 11 / 30 / 2021

PREPARED BY  
**EFK Moen**  
 Civil Engineering Design

## HIGHWAY STANDARDS

000001-07	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
420001-09	PAVEMENT JOINTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
602301-04	INLET, TYPE A
602306-03	INLET, TYPE B
602401-06	PRECAST MANHOLE, TYPE A, 4' DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604006-05	FRAME AND GRATE, TYPE 3
604091-03	FRAME AND GRATE, TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
836001-04	LIGHT POLE FOUNDATION

## COMMITMENTS

NO COMMITMENTS

## GENERAL NOTES

- ALL REPAIRS DETAILED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO ALL CURRENT APPLICABLE IDOT POLICIES AND STANDARDS IN EFFECT ON THE DATE OF THE INVITATION FOR BIDS.
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT ARE BEFORE DIGGING. FIELD MARKING OF UTILITIES 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:
  - CLEARWAVE COMMUNICATIONS
  - AMEREN IP - GAS
  - CITY OF MASCOUTAH - WATER, ELECTRIC, SEWER & FIBER OPTIC
  - MASCOUTAH COMMUNITY SCHOOL DISTRICT #19 - FIBER OPTIC
  - CHARTER COMMUNICATIONS
  - FRONTIER COMMUNICATIONS

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.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR WILL BE REQUIRED TO REPAIR THOSE AREAS THAT ARE DAMAGED AS A PART OF THE EXECUTION OF THE CONTRACT OR AS OTHERWISE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE COST OF SEEDING, FERTILIZING AND MULCHING AREAS OF TURF THAT ARE DAMAGED, WILL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS WORK ITEMS RELATED TO THE OPERATIONS CAUSING THE DAMAGE.
- ALL PIPE CULVERT OR STORM SEWER EXTENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH METHOD II AS SPECIFIED IN ARTICLE 542.05 OF THE STANDARD SPECIFICATIONS. PRIOR TO EXTENDING ANY PIPE CULVERT OR STORM SEWER, THE ENTIRE LENGTH OF THE EXISTING PIPE CULVERT OR STORM SEWER SHALL BE CLEANED OF ALL EARTH AND DEBRIS BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL NOT BE PAID FOR SEPERATLEY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- EXISTING STORM SEWERS & STRUCTURES TO BE REMOVED SHALL BE BACKFILLED WITH SUITABLE MATERIAL. BACKFILL AND ASSOCIATED WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THE LOCATION AND REQUIREMENTS FOR PLACEMENT OF STOP SIGNS ALONG IL ROUTE 177 AND IL ROUTE 4 SHALL BE COORDINATED WITH IDOT PRIOR TO PLACEMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AS STATED IN ARTICLE 107.25.
- ALL EXISTING ROAD SIGNS WITHIN THE LIMITS OF THE PROJECT LABELED (UIP) SHALL BE FIELD VERIFIED ADA COMPLIANT BOTH HORIZONTALLY AND VERTICALLY AND RESET IF NECESSARY. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR, HOWEVER, WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- SIDEWALK RAMP MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THE PLANS.
- ONE ADA ACCESSIBLE PARKING SPACE SHALL BE PROVIDED NEAR THE INTERSECTION OF LEBANON STREET AND E. MAIN STREET AND ONE ADA ACCESSIBLE PARKING SPACE SHALL BE PROVIDED NEAR THE INTERSECTION OF INDEPENDENCE STREET AND E. MAIN STREET AS SHOWN ON THE PLANS. THE PARKING SPACES SHALL BE DESIGNATED WITH A GROUND MOUNTED SIGN ASSEMBLY INCLUDING R7-8 AND R7-1101 (\$250 FINE) AND SHALL BE INSTALLED PER APPROPRIATE IDOT STANDARDS. THE PARKING SPACE SHALL ALSO BE DESIGNATED WITH PAVEMENT MARKINGS IN ACCORDANCE WITH THE MUTCD AND IDOT'S STANDARD 780001. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

**EFK Moen**  
Civil Engineering Design

USER NAME = sd
PLOT SCALE = 20.000000' / in.
PLOT DATE = 3/27/2020

DESIGNED - JRD
DRAWN - MSK
CHECKED - PJK
DATE - 3/30/2020

REVISED -
REVISED -
REVISED -
REVISED -

City of Mascoutah, Illinois

HIGHWAY STANDARDS, COMMITMENTS, AND GENERAL NOTES

SCALE: N/A SHEET 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	2
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	
				0004	URBAN
20200100	EARTH EXCAVATION	CU YD	955	955	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	268	268	
25200100	SODDING	SQ YD	268	268	
25200200	SUPPLEMENTAL WATERING	UNIT	0.9	0.9	
28000510	INLET FILTERS	EACH	25	25	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3441	3441	
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	2124	2124	
42001000	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9"	SQ YD	764	764	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	207	207	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8612	8612	
42400800	DETECTABLE WARNINGS	SQ FT	238	238	
44000100	PAVEMENT REMOVAL	SQ YD	3708	3708	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	202	202	
44000300	CURB REMOVAL	FOOT	1422	1422	

• SPECIALTY ITEM

**EFK Moen**  
Civil Engineering Design

USER NAME = jordan  
PLOT SCALE = 28.0000' / in.  
PLOT DATE = 3/27/2020

DESIGNED - JRD  
DRAWN - MSK  
CHECKED - PJK  
DATE - 3/30/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

City of Mascoutah, Illinois

**SUMMARY OF QUANTITIES**  
SCALE: N/A SHEET 1 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	3

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				ROADWAY
				0004 URBAN
44000600	SIDEWALK REMOVAL	SQ FT	7939	7939
44201357	CLASS C PATCHES, TYPE III, 10 INCH	SQ YD	15	15
54210186	PIPE ELBOW, 18"	EACH	2	2
5421C018	PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY)	FOOT	43	43
54248510	CONCRETE COLLAR	CU YD	0.6	0.6
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	86	86
550B0090	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	27	27
55100500	STORM SEWER REMOVAL 12"	FOOT	161	161
55100900	STORM SEWER REMOVAL 18"	FOOT	65	65
60218500	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2	2
60219540	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	4	4
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	5	5
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	4	4

• SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				ROADWAY
				0004 URBAN
60261540	INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1
60600605	CONCRETE CURB, TYPE B	FOOT	156	156
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	10	10
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1563	1563
66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	2	2
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1150	1150
66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10
67100100	MOBILIZATION	LSUM	1	1
67201100	SEALING ABANDONED MONITORING WELLS	EACH	5	5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	421	421
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	141	141
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1242	1242
78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	562	562
78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	58	58

• SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				ROADWAY
				0004
				URBAN
78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	113	113
78100300	REPLACEMENT REFLECTOR	EACH	2	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7	7
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	765	765
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	205	205
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	72	72
84200804	REMOVAL OF POLE FOUNDATION	EACH	6	6
X0100019	SPECIAL WASTE PLANS AND REPORTS (SPECIAL)	LSUM	1	1
X0301834	STORM SEWER TO BE FILLED	FOOT	41	41
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	5	5
X0323859	DOWNSPOUT CONNECTION	EACH	8	8
X0327131	DRAINAGE STRUCTURES, NO. 1	EACH	2	2
X0327132	DRAINAGE STRUCTURES, NO. 2	EACH	2	2
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	263	263

• SPECIALTY ITEM



PAVEMENT & SIDEWALK SCHEDULE

LOCATION				AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	PCC PAVEMENT 9" JOINTED (SQ YD)	H-E-S PCC PAVEMENT 9" (SQ YD)	PCC DRIVEWAY PAVEMENT 8" (SQ YD)	CLASS C PATCHES TYPE 3 10" (SQ YD)	PCC SIDEWALK 5" (SQ FT)	PCC SIDEWALK 5" SPECIAL (SQ FT)
ROADWAY	STATION	STATION	SIDE							
E MAIN ST	618+23.00	626+25.00	BOTH	3,440.6						
E MAIN ST	618+23.00	621+45.79	BOTH		1,070.5					
E MAIN ST	623+00.00	626+25.00	BOTH		1,052.7					
E MAIN ST	621+45.79	623+00.00	BOTH			763.2				
E MAIN ST	622+36.86	623+75.73	LEFT				106.8			
E MAIN ST	622+64.44	623+44.86	RIGHT				48.7			
E MAIN ST	623+80.00	624+34.00	RIGHT				50.7			
E MAIN ST	618+23.00	618+48.27	LEFT						248.6	
E MAIN ST	618+86.27	622+03.24	LEFT						2,163.3	
E MAIN ST	622+37.41	623+08.32	LEFT						483.3	
E MAIN ST	623+60.93	625+55.20	LEFT						1,480.7	
E MAIN ST	625+89.16	626+07.78	LEFT						280.1	
E MAIN ST	618+34.86	618+49.75	RIGHT						114.5	
E MAIN ST	618+86.14	622+01.94	RIGHT						1,894.3	
E MAIN ST	622+37.01	622+75.39	RIGHT						344.8	
E MAIN ST	623+01.72	623+93.78	RIGHT						446.2	
E MAIN ST	624+20.22	625+52.77	RIGHT						800.7	
E MAIN ST	625+87.61	626+35.00	RIGHT						355.1	
E MAIN ST	622+34.23	622+37.66	RIGHT					14.7		
E MAIN ST	618+24.37	618+34.24	LEFT							39.6
E MAIN ST	618+44.81	618+47.89	LEFT							7.6
E MAIN ST	618+86.55	618+89.24	LEFT							6.7
E MAIN ST	618+99.74	619+28.57	LEFT							154.9
E MAIN ST	621+28.71	621+75.93	LEFT							175.2
E MAIN ST	622+58.45	623+04.57	LEFT							129.2
E MAIN ST	623+64.03	623+83.59	LEFT							78.3
E MAIN ST	625+17.73	625+33.71	LEFT							77.8
E MAIN ST	625+47.37	625+53.73	LEFT							21.1
E MAIN ST	625+89.11	625+95.72	LEFT							31.7
E MAIN ST	626+07.77	626+23.67	LEFT							81.0
E MAIN ST	618+86.02	618+87.39	RIGHT							1.3
E MAIN ST	618+87.89	618+89.12	RIGHT							0.9
E MAIN ST	618+99.62	621+65.00	RIGHT							888.5
E MAIN ST	622+54.08	622+71.08	RIGHT							32.4
E MAIN ST	623+08.57	623+89.42	RIGHT							258.3
E MAIN ST	624+24.58	625+32.28	RIGHT							366.5
E MAIN ST	625+44.74	625+52.38	RIGHT							30.1
E MAIN ST	625+87.80	625+95.71	RIGHT							37.8
E MAIN ST	626+06.96	626+23.67	RIGHT							84.1
TOTALS				3,441	2,124	764	207	15	8,612	2,503

EARTHWORK SCHEDULE

			20200100 FOR INFORMATION ONLY			
			EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)
STATION	TO	STATION				
618+23.00	TO	626+25.00	955	715	195	520
TOTALS			955	715	195	520



USER NAME = jordan	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 28,8000' / in.	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

City of Mascoutah, Illinois

SCHEDULE OF QUANTITIES			
SCALE: N/A	SHEET 1	OF 4	SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	8
ILLINOIS FED. AID PROJECT				



PAVEMENT, CURB & SIDEWALK REMOVAL SCHEDULE

LOCATION					PAVEMENT REMOVAL ( SQ YD)	DRIVEWAY PAVEMENT REMOVAL ( SQ YD)	CURB REMOVAL ( FOOT)	SIDEWALK REMOVAL ( SQ FT)
ROADWAY	STATION	OFFSET	STATION	OFFSET				
E MAIN ST	618+23.00	CL	626+25.00	CL	3708			
E MAIN ST	621+02.89	24.45' RT	621+42.64	25.04' RT		38.3		
E MAIN ST	621+54.00	24.69' RT	621+80.88	20.09' RT		17.3		
E MAIN ST	622+36.69	50.34' RT	622+98.10	19.66' RT		51.9		
E MAIN ST	623+98.14	19.51' RT	624+40.66	19.19' RT		27.7		
E MAIN ST	622+37.24	41.12' LT	622+90.03	27.10' LT		31.8		
E MAIN ST	623+27.38	27.28' LT	623+62.01	27.57' LT		24.5		
E MAIN ST	624+85.81	29.32' LT	624+95.78	28.59' LT		9.6		
E MAIN ST	618+23.00	13.84' RT	618+50.34	24.25' RT			35.2	
E MAIN ST	618+87.98	38.02' RT	621+02.81	16.11' RT			240.8	
E MAIN ST	621+42.55	20.94' RT	621+54.01	20.88' RT			18.7	
E MAIN ST	621+81.03	19.96' RT	622+02.51	50.34' RT			41.3	
E MAIN ST	622+45.52	19.74' RT	622+50.52	23.32' RT			7.4	
E MAIN ST	622+95.64	23.23' RT	624+01.16	23.94' RT			110.6	
E MAIN ST	624+34.97	24.06' RT	625+53.37	33.07' RT			131.8	
E MAIN ST	625+86.84	34.37' RT	626+35.00	20.26' RT			59.7	
E MAIN ST	618+23.00	17.71' LT	618+48.84	32.34' LT			38.1	
E MAIN ST	618+85.68	32.34' LT	622+03.78	41.12' LT			352.1	
E MAIN ST	622+45.07	36.09' LT	622+56.52	26.99' LT			42.4	
E MAIN ST	622+45.09	41.13' LT	622+57.84	27.15' LT			25.1	
E MAIN ST	622+90.03	27.10' LT	623+27.38	27.28' LT			54.4	
E MAIN ST	623+62.01	27.57' LT	624+85.82	25.39' LT			132.7	
E MAIN ST	624+95.90	25.84' LT	625+55.66	35.31' LT			73.3	
E MAIN ST	625+88.79	34.32' LT	626+35.00	20.46' LT			57.6	
E MAIN ST	618+34.86	14.47' RT	618+49.89	25.44' RT				117.6
E MAIN ST	618+85.88	23.75' RT	621+02.81	16.11' RT				1429.3
E MAIN ST	621+42.64	25.04' RT	621+54.00	24.69' RT				86.5
E MAIN ST	621+80.88	20.09' RT	622+02.01	50.34' RT				231.8
E MAIN ST	622+36.52	33.7' RT	622+50.52	23.32' RT				103.1
E MAIN ST	622+95.64	23.23' RT	624+01.16	23.94' RT				365.1
E MAIN ST	624+34.97	24.06' RT	625+50.02	40.16' RT				620.0
E MAIN ST	625+91.24	32.95' RT	626+35.00	20.79' RT				273.7
E MAIN ST	618+23.00	18.21' LT	618+48.34	29.07' LT				183.6
E MAIN ST	618+86.19	31.78' LT	622+03.13	35.51' LT				2670.0
E MAIN ST	622+37.72	34.91' LT	622+56.52	26.99' LT				140.5
E MAIN ST	622+90.03	27.10' LT	623+27.38	27.28' LT				244.9
E MAIN ST	623+62.01	27.57' LT	624+85.81	29.32' LT				852.8
E MAIN ST	624+95.78	28.59' LT	625+55.20	36.78' LT				443.5
E MAIN ST	625+91.23	41.91' LT	626+07.78	26.90' LT				176.0
TOTALS					3,708	202	1,422	7,939

CURB AND GUTTER SCHEDULE

LOCATION				CONCRETE CURB TYPE B ( FOOT)	COMBINATION CURB & GUTTER TYPE B-6.06 ( FOOT)	COMBINATION CURB & GUTTER TYPE B-6.24 ( FOOT)
ROADWAY	STATION	STATION	SIDE			
E MAIN ST	622+36.86	623+08.32	LEFT	83.9		
E MAIN ST	626+25.00	626+35.00	LEFT	10.0		
E MAIN ST	618+23.00	618+50.34	RIGHT	35.4		
E MAIN ST	618+85.37	618+87.89	RIGHT	15.8		
E MAIN ST	626+25.00	626+35.00	RIGHT	10.0		
E MAIN ST	618+23.00	618+30.51	LEFT		9.8	
E MAIN ST	618+30.51	618+48.86	LEFT			35.3
E MAIN ST	618+85.68	622+03.76	LEFT			357.3
E MAIN ST	622+37.16	625+55.66	LEFT			355.9
E MAIN ST	625+88.79	626+25.00	LEFT			56.7
E MAIN ST	618+85.37	622+02.53	RIGHT			344.5
E MAIN ST	622+36.43	625+53.37	RIGHT			356.4
E MAIN ST	625+86.84	626+25.00	RIGHT			56.7
TOTALS				156	10	1,563

**EFK Moen**  
Civil Engineering Design

USER NAME = jdoordan  
PLOT SCALE = 28.0000' / in.  
PLOT DATE = 3/27/2020

DESIGNED - JRD  
DRAWN - MSK  
CHECKED - PJK  
DATE - 3/30/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

City of Mascoutah, Illinois

SCALE: N/A  
SHEET 2 OF 4 SHEETS

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	9

ILLINOIS FED. AID PROJECT

PAVEMENT MARKING SCHEDULE

LOCATION				EPOXY PMT MARKING LINE 4" (FOOT)	EPOXY PMT MARKING LINE 6" (FOOT)	EPOXY PMT MARKING LINE 12" (FOOT)	EPOXY PMT MARKING LINE 24" (FOOT)	PAVMENT MARKING REMOVAL GRINDING (SQ FT)	REMARKS	
ROADWAY	STATION	STATION	SIDE							
E MAIN ST	617+13.00	621+10.22	CENTER	100.0					YELLOW SKIP-DASH	
E MAIN ST	622+93.26	627+88.00	CENTER	110.0					YELLOW SKIP-DASH	
E MAIN ST	621+10.22	621+92.62	CENTER	165.3					YELLOW CENTER DOUBLE	
E MAIN ST	621+10.22	621+92.21	CENTER	164.3					YELLOW CENTER DOUBLE	
E MAIN ST	622+44.99	622+93.26	CENTER	96.5					YELLOW CENTER DOUBLE	
E MAIN ST	622+45.21	622+93.26	CENTER	96.5					YELLOW CENTER DOUBLE	
E MAIN ST	618+03.00	618+32.62	CENTER	29.6					WHITE LEFT SIDE	
E MAIN ST	619+21.98	621+94.48	LEFT	272.5					WHITE LEFT SIDE	
E MAIN ST	623+77.00	625+24.31	LEFT	147.3					WHITE LEFT SIDE	
E MAIN ST	626+14.61	626+45	LEFT	30.4					WHITE LEFT SIDE	
E MAIN ST	625+96	656+25.00	RIGHT	29.2					WHITE RIGHT SIDE	
E MAIN ST	618+50.84	618+83.70	LEFT		32.9				WHITE CROSSWALK	
E MAIN ST	618+50.74	618+83.82	LEFT		33.1				WHITE CROSSWALK	
E MAIN ST	622+03.68	622+40.06	LEFT		36.4				WHITE CROSSWALK	
E MAIN ST	622+05.80	622+36.99	LEFT		31.2				WHITE CROSSWALK	
E MAIN ST	625+57.38	625+86.76	LEFT		29.4				WHITE CROSSWALK	
E MAIN ST	625+56.68	625+87.06	LEFT		30.4				WHITE CROSSWALK	
E MAIN ST	618+50.32	618+83.57	RIGHT		33.3				WHITE CROSSWALK	
E MAIN ST	618+49.87	618+84.87	RIGHT		35.0				WHITE CROSSWALK	
E MAIN ST	621+96.98	622+36.94	RIGHT		40.0				WHITE CROSSWALK	
E MAIN ST	621+97.71	622+37.45	RIGHT		39.7				WHITE CROSSWALK	
E MAIN ST	625+55.30	625+85.07	RIGHT		29.8				WHITE CROSSWALK	
E MAIN ST	625+55.07	625+85.21	RIGHT		30.2				WHITE CROSSWALK	
E MAIN ST	621+95.37	621+89.79	CENTER		38.4				WHITE CROSSWALK FROM LEFT TO RIGHT	
E MAIN ST	622+03.68	621+97.71	CENTER		41.1				WHITE CROSSWALK FROM LEFT TO RIGHT	
E MAIN ST	622+40.06	622+37.45	CENTER		40.6				WHITE CROSSWALK FROM LEFT TO RIGHT	
E MAIN ST	622+46.23	622+43.64	CENTER		40.3				WHITE CROSSWALK FROM LEFT TO RIGHT	
E MAIN ST	621+10.22	621+92.62	CENTER			13.2			WHITE 10' GAP @ 45°	
E MAIN ST	622+44.99	622+93.26	CENTER			16.8			YELLOW 10' GAP @ 45°	
E MAIN ST	621+56.38	621+94.48	LEFT			27.7			YELLOW 10' GAP @ 45°	
LEBANON ST	618+50.86	618+67.25	LEFT				16.4		STOP BAR	
JEFFERSON ST	622+05.86	622+19.97	LEFT				14.1		STOP BAR	
E MAIN ST	622+61.93	622+61.93	LEFT				13.0		STOP BAR	
INDEPENDENCE ST	625+57.40	625+72.08	LEFT				14.7		STOP BAR	
LEBANON ST	618+69.21	618+82.91	RIGHT				13.7		STOP BAR	
E MAIN ST	621+71.53	621+71.53	RIGHT				11.0		STOP BAR	
JEFFERSON ST	622+20.00	622+34.44	RIGHT				14.4		STOP BAR	
INDEPENDENCE ST	625+70.33	625+85.24	RIGHT				14.9		STOP BAR	
E MAIN ST	617+13.00	618+23.00	RIGHT					10.0	SKIP-DASH	
E MAIN ST	621+46.00	621+82.00	RIGHT					3.3	SKIP-DASH	
E MAIN ST	622+80.00	625+13.00	LEFT					20.0	SKIP-DASH	
E MAIN ST	625+96.00	627+88.00	CENTER					10.0	SKIP-DASH	
E MAIN ST	618+03.00	618+23.00	LEFT					9.2	EDGE LINE	
E MAIN ST	618+94.00	621+72.00	LEFT					92.4	EDGE LINE	
E MAIN ST	623+76.12	625+21.00	LEFT					53.7	EDGE LINE	
E MAIN ST	626+18.00	626+45.00	LEFT					11.9	EDGE LINE	
E MAIN ST	618+42.00	618+42.00	LEFT					5.9	CROSSWALK	
E MAIN ST	618+49.00	621+72.00	LEFT					5.9	CROSSWALK	
E MAIN ST	618+87.00	618+87.00	LEFT					5.9	CROSSWALK	
E MAIN ST	618+94.00	618+94.00	LEFT					5.9	CROSSWALK	
E MAIN ST	625+47.00	618+23.00	LEFT					7.1	CROSSWALK	
E MAIN ST	625+53.00	621+72.00	LEFT					7.2	CROSSWALK	
E MAIN ST	625+87.00	625+87.00	LEFT					6.9	CROSSWALK	
E MAIN ST	625+96.00	626+45.00	LEFT					6.8	CROSSWALK	
TOTALS				1,242	562	58	113	263		

ENVIRONMENTAL SCHEDULE

LOCATION				UNDERGROUND STORAGE TANK REMOVAL (EACH)	SOIL DISPOSAL ANALYSIS (EACH)	SEALING ABANDONED MONITORING WELLS (EACH)
ROADWAY	STATION	STATION	SIDE			
E MAIN ST	618+23	626+25.00	BOTH	2	10	5
TOTALS				2	10	5

TOPSOIL AND SODDING SCHEDULE

LOCATION				TOPSOIL FURNISH & PLACE 4" (SQ YD)	SODDING (SQ YD)	SUPPLEMENTAL WATERING (UNIT)
ROADWAY	STATION	STATION	SIDE			
E MAIN ST	618+23	626+25.00	BOTH	268	268	0.9
TOTALS				268	268	0.9

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE

LOCATION			RRPM REFLECTOR REMOVAL (EACH)	RRP MARKER REMOVAL (EACH)	REPLACEMENT REFLECTOR (EACH)
ROADWAY	STATION	STATION			
E MAIN ST	617+53.00	-	1		
E MAIN ST	626+71.00	-	1		
E MAIN ST	618+23.00	626+25.00		7	
E MAIN ST	617+53.00	-			1
E MAIN ST	626+71.00	-			1
TOTALS			2	7	2

**EFK Moen**  
Civil Engineering Design

USER NAME = jdoorden  
PLOT SCALE = 28,8000' / in.  
PLOT DATE = 3/27/2020

DESIGNED - JRD  
DRAWN - MSK  
CHECKED - PJK  
DATE - 3/30/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

City of Mascoutah, Illinois

SCHEDULE OF QUANTITIES  
SCALE: N/A SHEET 3 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	10

ILLINOIS FED. AID PROJECT

DETECTABLE WARNING SCHEDULE				DETECTABLE WARNING 12" (SQ FT)
LOCATION				
ROADWAY	STATION	STATION	SIDE	
E MAIN ST	618+39.31	618+44.31	LEFT	10.4
E MAIN ST	618+48.03	618+48.26	LEFT	11.8
E MAIN ST	618+86.44	618+86.29	LEFT	12.0
E MAIN ST	618+89.74	618+94.73	LEFT	10.6
E MAIN ST	621+95.37	622+03.19	LEFT	20.6
E MAIN ST	622+40.42	622+47.08	LEFT	15.5
E MAIN ST	625+41.41	625+46.87	LEFT	10.0
E MAIN ST	625+53.95	625+54.87	LEFT	18.3
E MAIN ST	625+89.04	625+89.15	LEFT	11.9
E MAIN ST	625+96.22	626+01.22	LEFT	10.0
E MAIN ST	618+40.38	618+45.37	RIGHT	10.0
E MAIN ST	618+49.43	618+49.72	RIGHT	10.2
E MAIN ST	618+86.21	618+87.55	RIGHT	10.9
E MAIN ST	618+89.62	618+94.63	RIGHT	10.7
E MAIN ST	621+89.91	621+93.46	RIGHT	10.0
E MAIN ST	622+39.41	622+44.51	RIGHT	14.9
E MAIN ST	625+39.69	625+44.24	RIGHT	10.0
E MAIN ST	625+52.51	625+52.77	RIGHT	10.0
E MAIN ST	625+87.76	625+87.62	RIGHT	10.0
E MAIN ST	625+96.21	626+01.21	RIGHT	10.0
TOTALS				238

SHORT TERM PAVEMENT MARKING SCHEDULE				SHORT TERM MARKING (FOOT)	SHORT TERM MARKING REMOVAL (SQ FT)	REMARKS
LOCATION						
ROADWAY	STATION	STATION	SIDE			
E MAIN ST	617+13.00	621+72.00	CENTER	40.0	13.3	SKIP-DASH (4' LENGTH @ 40' SPACING)
E MAIN ST	622+62.00	627+88.00	CENTER	44.0	14.7	SKIP-DASH (4' LENGTH @ 40' SPACING)
E MAIN ST	618+50.86	618+67.25	LEFT	49.2	16.4	STOPBAR (3X - 4" LINE)
E MAIN ST	622+05.86	622+19.97	LEFT	42.3	14.1	STOPBAR (3X - 4" LINE)
E MAIN ST	622+61.93	622+61.93	LEFT	39.0	13.0	STOPBAR (3X - 4" LINE)
E MAIN ST	625+57.40	625+72.08	LEFT	44.1	14.7	STOPBAR (3X - 4" LINE)
E MAIN ST	618+69.21	618+82.91	RIGHT	41.1	13.7	STOPBAR (3X - 4" LINE)
E MAIN ST	621+71.53	621+71.53	RIGHT	33.0	11.0	STOPBAR (3X - 4" LINE)
E MAIN ST	622+20.00	622+34.44	RIGHT	43.2	14.4	STOPBAR (3X - 4" LINE)
E MAIN ST	625+70.33	625+85.24	RIGHT	44.7	14.9	STOPBAR (3X - 4" LINE)
TOTALS				421	141	

LIGHTING SCHEDULE					UNDERGROUND CONDUIT PVC 1 1/2" DIA (FOOT)	UNDERGROUND CONDUIT PVC 2 1/2" DIA (FOOT)	LIGHT POLE FOUNDATION 30" DIAMETER (FOOT)	REMOVAL OF POLE FOUNDATION (EACH)
LOCATION								
ROADWAY	STATION	OFFSET	STATION	OFFSET				
E MAIN ST	618+46.50	16.95 RT	619+01.00	15.67 RT	55.0			
E MAIN ST	619+01.00	15.67 RT	619+65.00	15.67 RT	64.0			
E MAIN ST	619+65.00	15.67 RT	620+40.00	15.67 RT	75.0			
E MAIN ST	620+40.00	15.67 RT	621+15.00	15.68 RT	75.0			
E MAIN ST	621+15.00	15.68 RT	621+81.00	21.08 RT	67.0			
E MAIN ST	621+81.00	21.08 RT	622+61.00	20.8 RT	81.0			
E MAIN ST	622+61.00	20.8 RT	623+18.00	15.67 RT	59.0			
E MAIN ST	623+18.00	15.67 RT	623+82.00	15.83 RT	62.0			
E MAIN ST	623+83.00	15.83 RT	624+63.00	15.67 RT	81.0			
E MAIN ST	624+63.00	15.67 RT	625+31.00	15.67 RT	68.0			
E MAIN ST	625+31.00	15.67 RT	625+93.00	17.5 RT	63.0			
E MAIN ST	624+63.00	15.67 RT	624+63.00	23 RT	15.0			
E MAIN ST	624+18.28	36.30 LT	624+63.00	23.00 RT		75.0		
E MAIN ST	624+63.00	23.00 RT	625+92.14	15.83 RT		130.0		
E MAIN ST	618+46.50	16.95 RT					6	
E MAIN ST	619+01.00	15.67 RT					6	
E MAIN ST	619+65.00	15.67 RT					6	
E MAIN ST	620+40.00	15.67 RT					6	
E MAIN ST	621+15.00	15.68 RT					6	
E MAIN ST	621+81.00	21.08 RT					6	
E MAIN ST	622+61.00	20.8 RT					6	
E MAIN ST	623+20.00	15.75 RT					6	
E MAIN ST	623+83.00	15.83 RT					6	
E MAIN ST	624+63.00	15.67 RT					6	
E MAIN ST	625+31.00	15.67 RT					6	
E MAIN ST	625+93.00	17.5 RT					6	
E MAIN ST	619+37.52	19.04' LT						1
E MAIN ST	620+57.97	18.74' LT						1
E MAIN ST	621+67.19	18.30' LT						1
E MAIN ST	623+01.63	21.99' LT						1
E MAIN ST	624+17.33	22.40' LT						1
E MAIN ST	625+46.71	22.82' LT						1
TOTALS					765	205	72	6

**EFK Moen**  
Civil Engineering Design

USER NAME = jbordeen  
PLOT SCALE = 28.0000' / in.  
PLOT DATE = 3/27/2020

DESIGNED - JRD  
DRAWN - MSK  
CHECKED - PJK  
DATE - 3/30/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

City of Mascoutah, Illinois

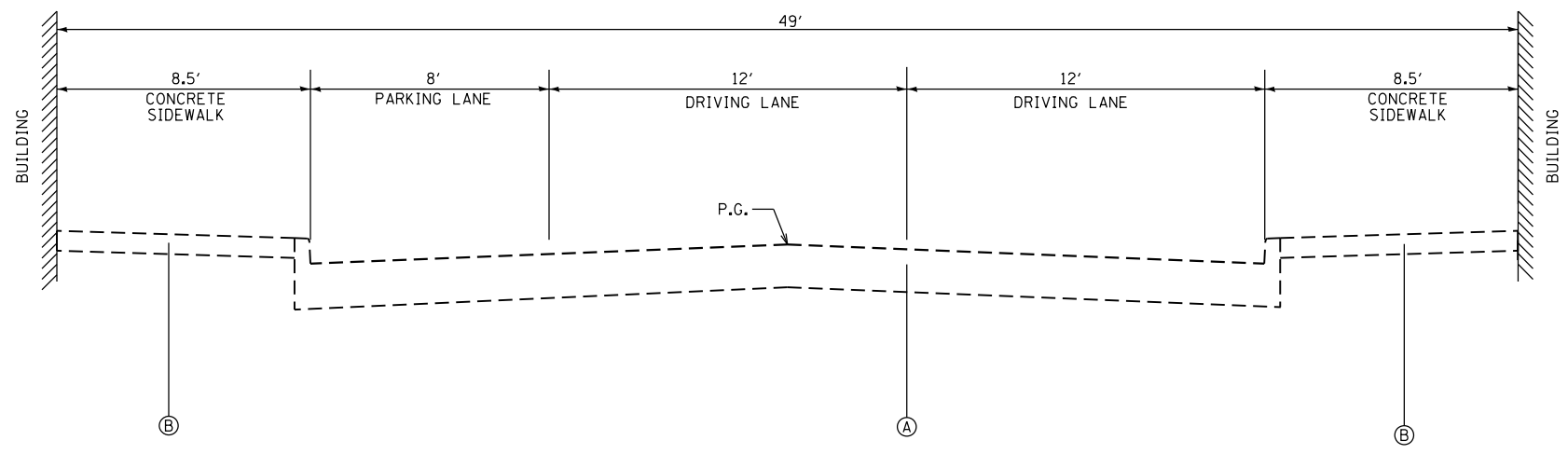
SCALE: N/A  
SHEET 4 OF 4 SHEETS

SCHEDULE OF QUANTITIES

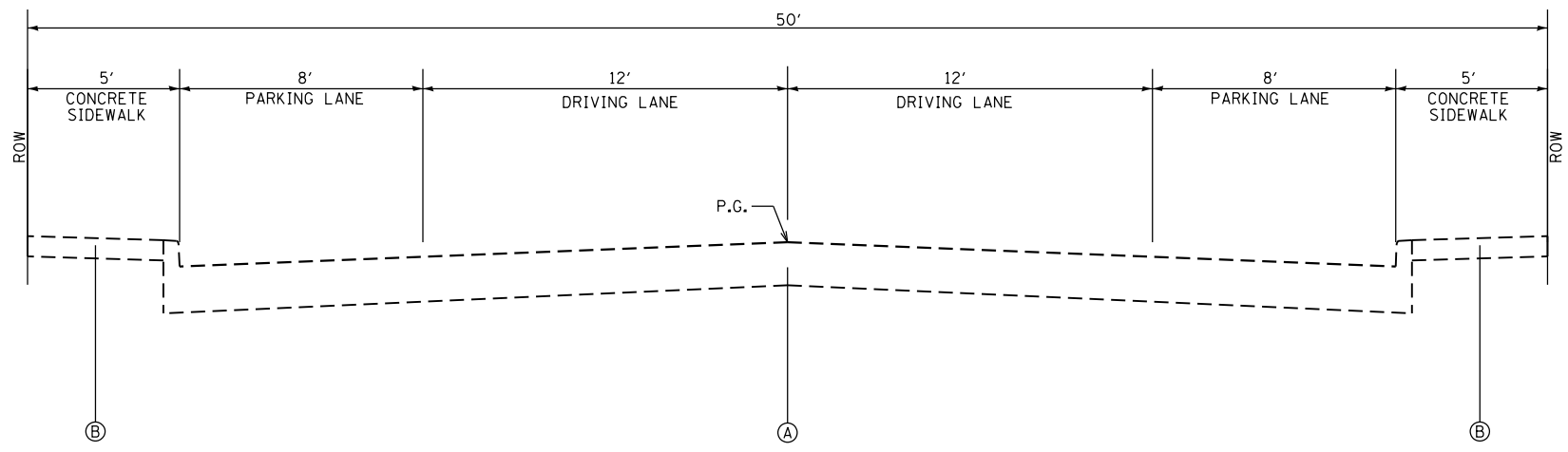
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	11

ILLINOIS FED. AID PROJECT

**EXISTING\***  
 (A) PAVEMENT  
 (B) CONCRETE SIDEWALK



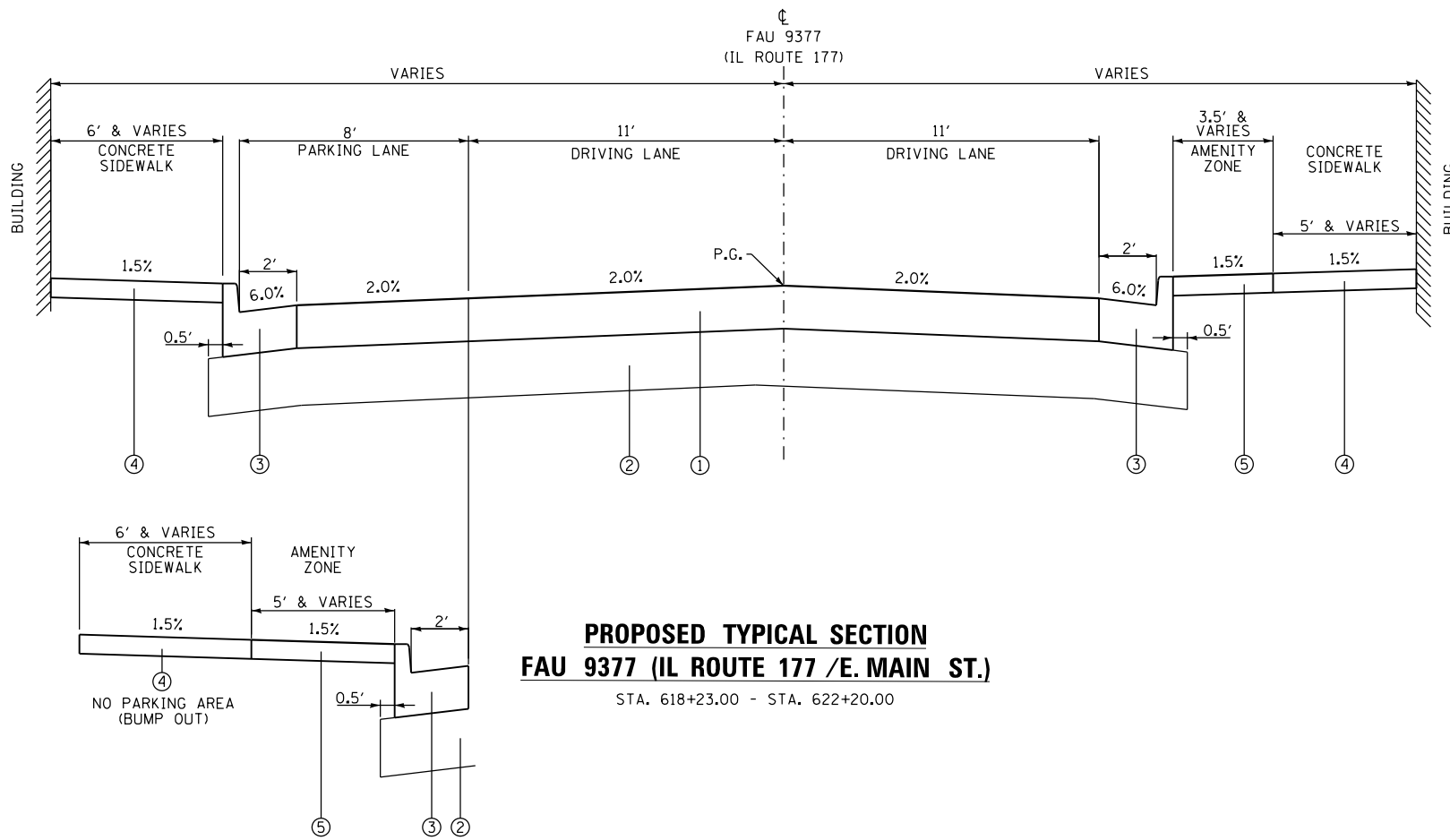
**EXISTING TYPICAL SECTION**  
**FAU 9377 (IL ROUTE 177 /E. MAIN ST.)**  
 STA. 618+23.00 - STA. 622+20.00



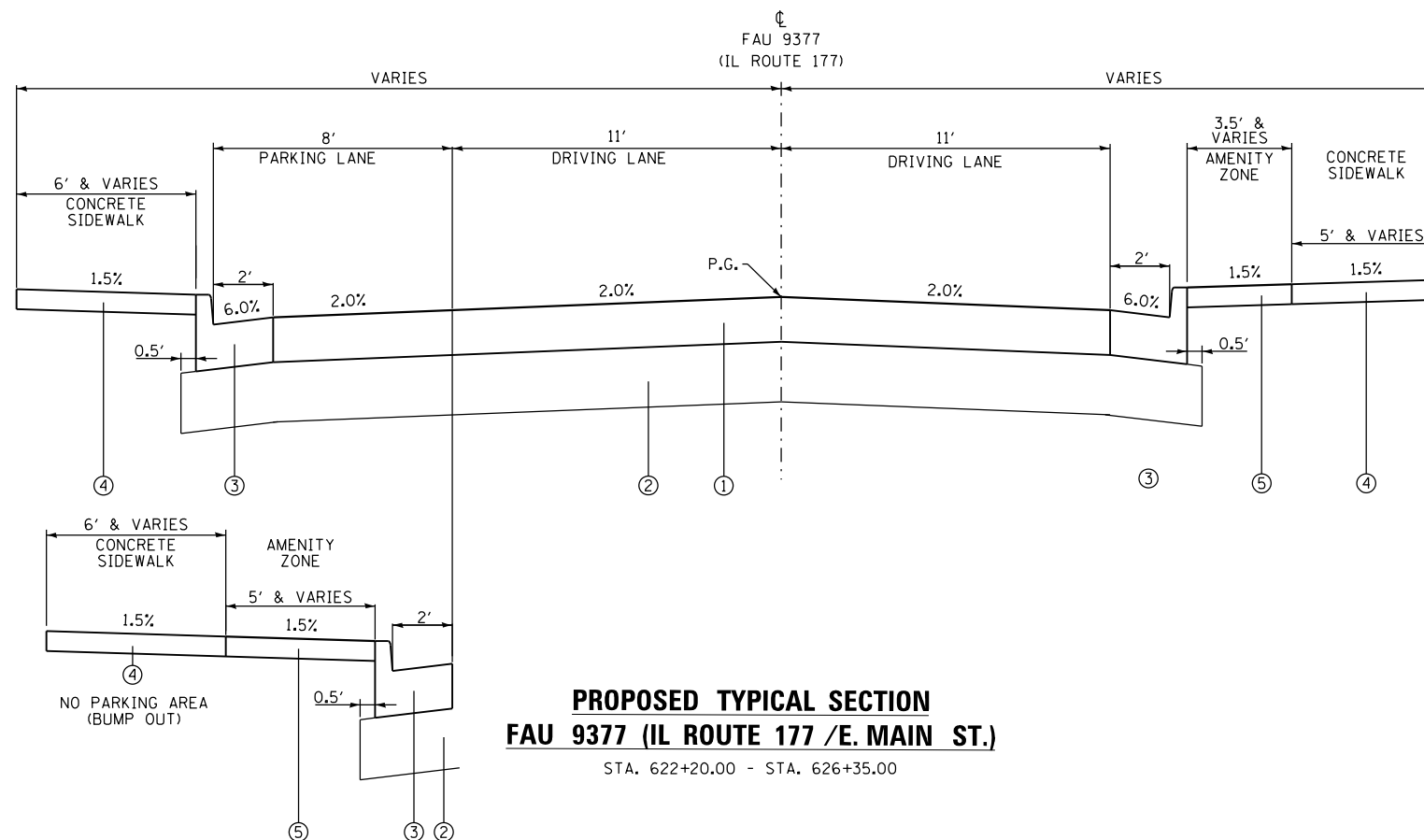
**EXISTING TYPICAL SECTION**  
**FAU 9377 (IL ROUTE 177 /E. MAIN ST.)**  
 STA. 622+20.00 - STA. 626+35.00

NOTE:  
 THE EXISTING TYPICALS WERE PROVIDED BY THE CITY OF MASCOUTAH.  
 THE EXISTING PAVEMENT STRUCTURE IS UNKNOWN.

<b>EFK Moen</b> Civil Engineering Design	USER NAME = sd	DESIGNED - DWB	REVISED -	<b>City of Mascoutah, Illinois</b>	<b>EXISTING TYPICAL SECTIONS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / in.	DRAWN - DWB	REVISED -					9377	14-00025-00-PV	ST. CLAIR	61	12
	PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -		SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	ILLINOIS FED. AID PROJECT					
		DATE - 3/30/2020	REVISED -									



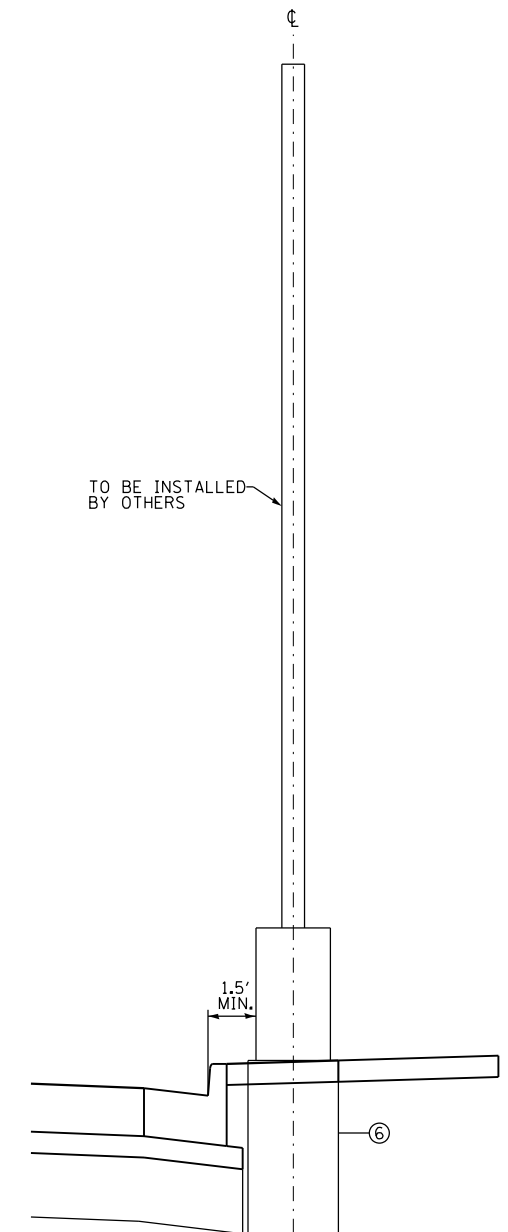
**PROPOSED TYPICAL SECTION  
FAU 9377 (IL ROUTE 177 /E. MAIN ST.)**  
STA. 618+23.00 - STA. 622+20.00



**PROPOSED TYPICAL SECTION  
FAU 9377 (IL ROUTE 177 /E. MAIN ST.)**  
STA. 622+20.00 - STA. 626+35.00

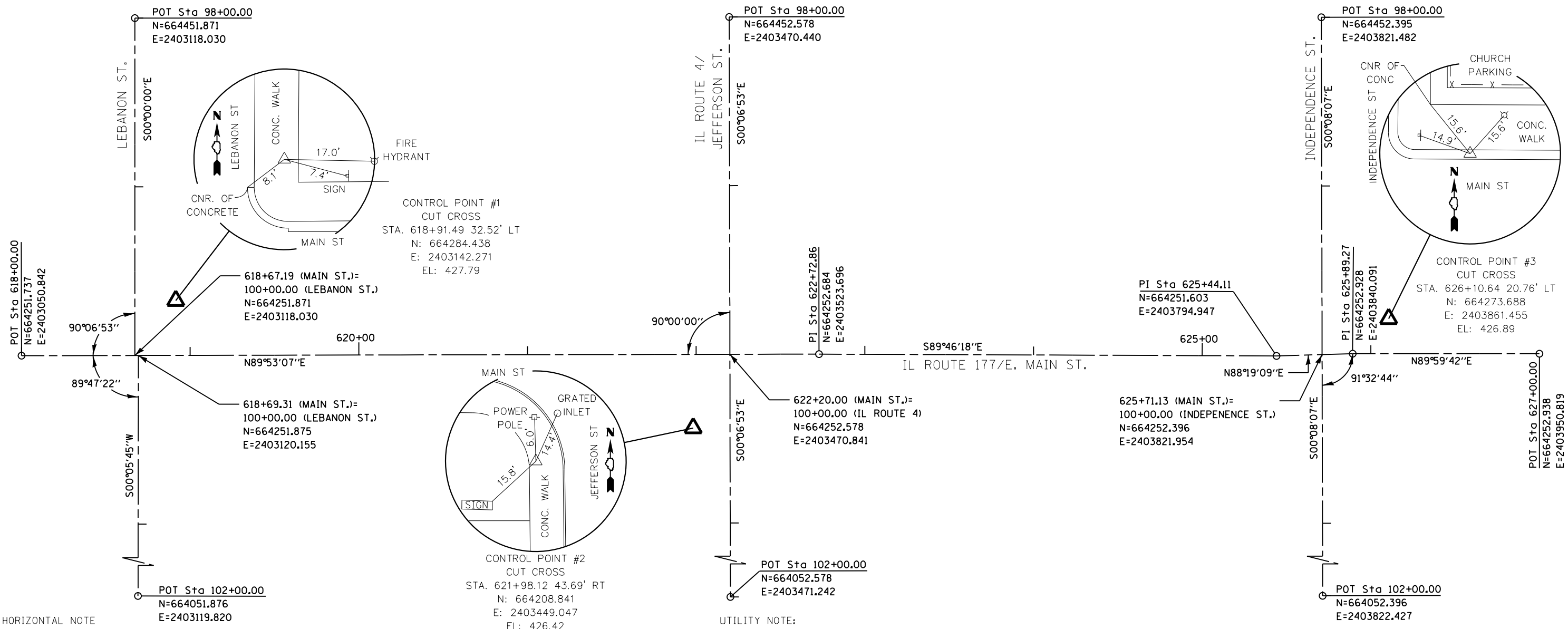
**PROPOSED**

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED) OR HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- ② AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ④ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑤ STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑥ LIGHT POLE FOUNDATION, 30" DIAMETER



**LIGHT STANDARD TYPICAL**

SEE LIGHTING FOUNDATION PLAN FOR FOUNDATION LOCATIONS



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - MSK	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

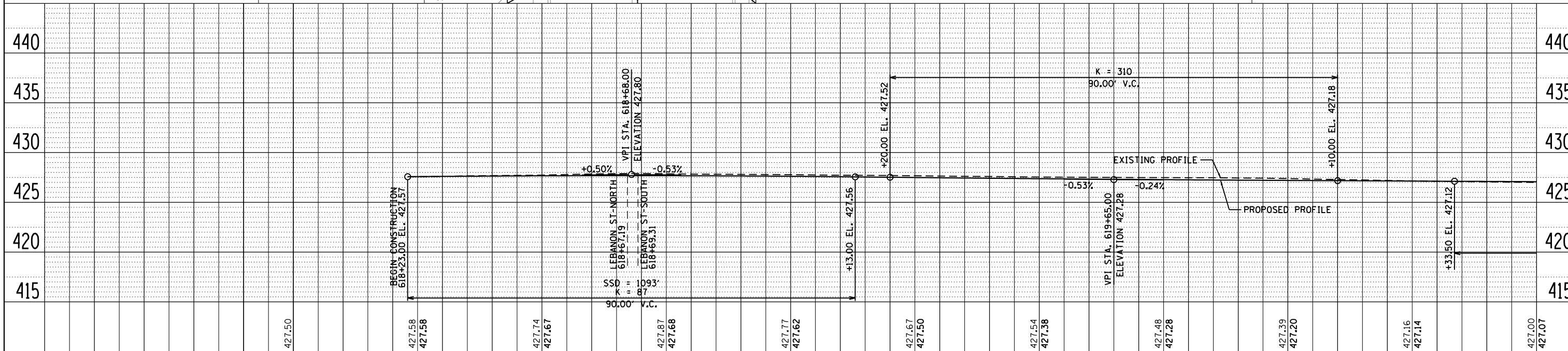
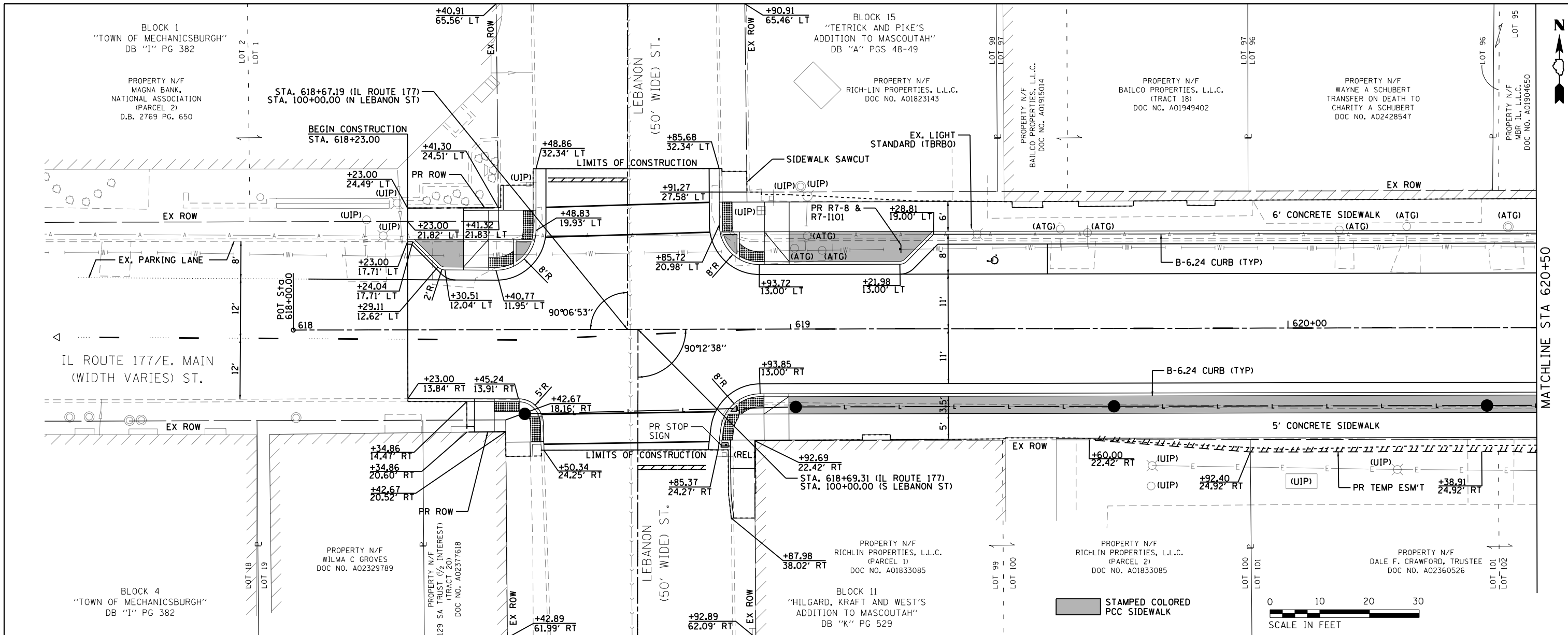
ALIGNMENT, TIES AND BENCHMARKS			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
9377	14-00025-00-PV	ST. CLAIR	61
SCALE: 1" = 30'		SHEET 1 OF 1 SHEETS	STA. 618+00.00 TO STA. 627+00.00

ILLINOIS	FED. AID PROJECT
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PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

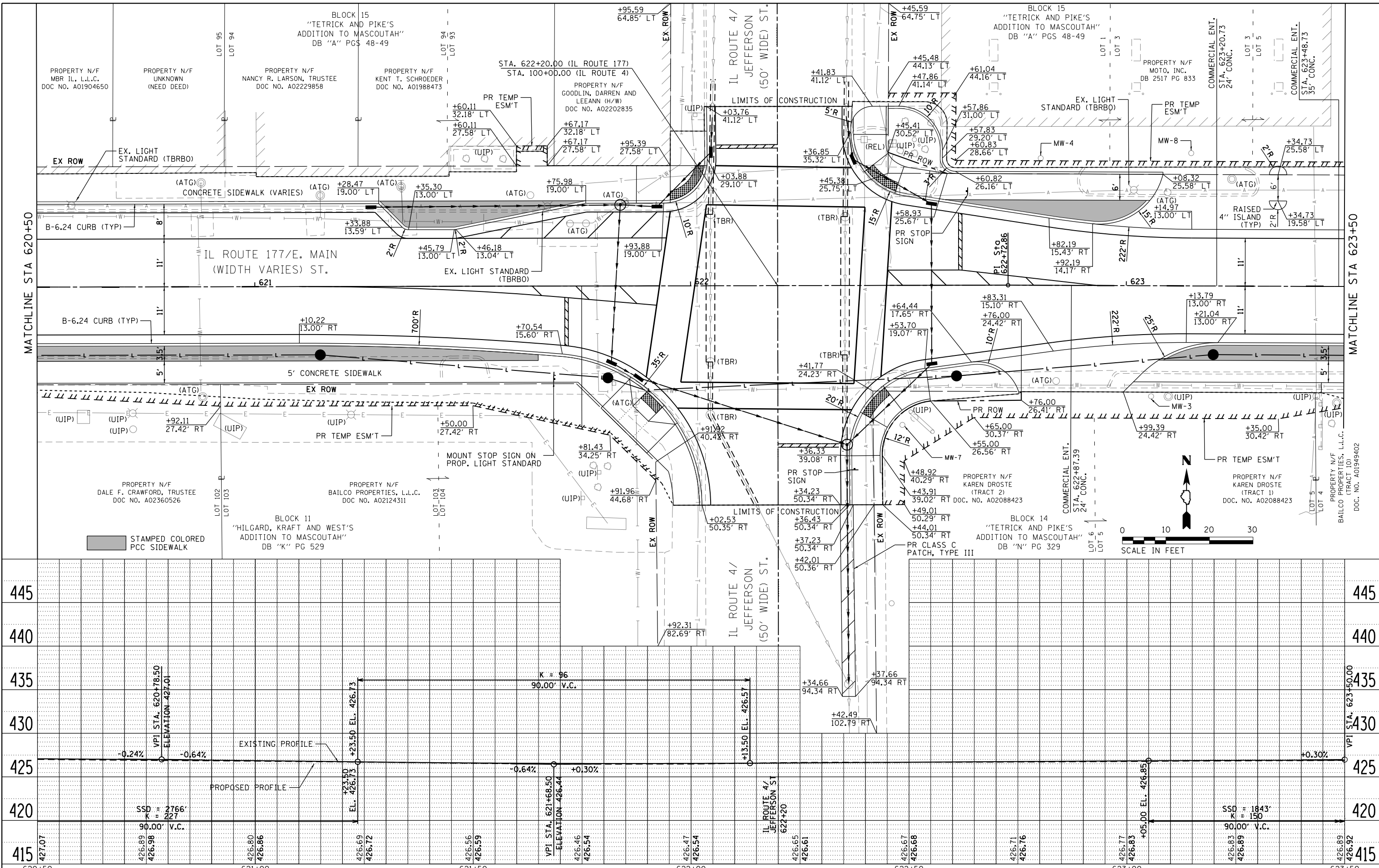
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



<b>EFK•Moen</b> Civil Engineering Design	USER NAME = sd	DESIGNED - JRD	REVISED -	<b>City of Mascoutah, Illinois</b>	<b>PLAN AND PROFILE</b> <b>E. MAIN ST.</b>		F.A.U. R.E. 9377	SECTION 14-00025-00-PV	COUNTY ST. CLAIR	TOTAL SHEETS 61	SHEET NO. 15
	PLOT SCALE = 20.000000' / 1" / in. PLOT DATE = 3/27/2020	DRAWN - MSK CHECKED - PJK DATE - 3/30/2020	REVISED - REVISED - REVISED - REVISED -		SCALE: 1" = 10' SHEET 1 OF 4 SHEETS STA. 617+50.00 TO STA. 620+50.00	ILLINOIS FED. AID PROJECT					

DATE	
BY	
REVISIONS	
PLAN	REVISIONS
NOTE BOOK	ALIGNED
NO.	CHECKED
	CARD FILE NAME

DATE	
BY	
REVISIONS	
PROFILE	REVISIONS
NOTE BOOK	GRADES CHECKED
NO.	BY
	STRUCTURE NOTATIONS CHKD

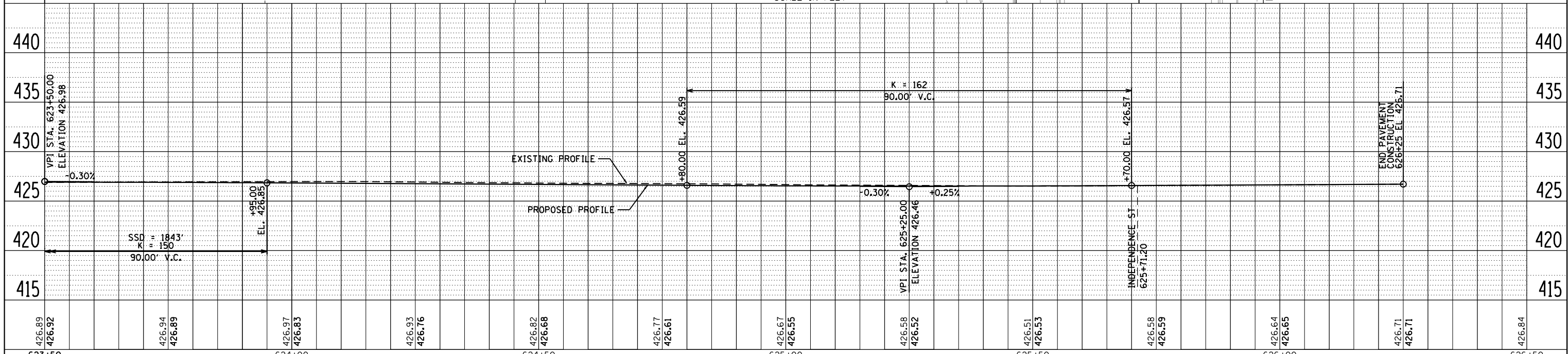
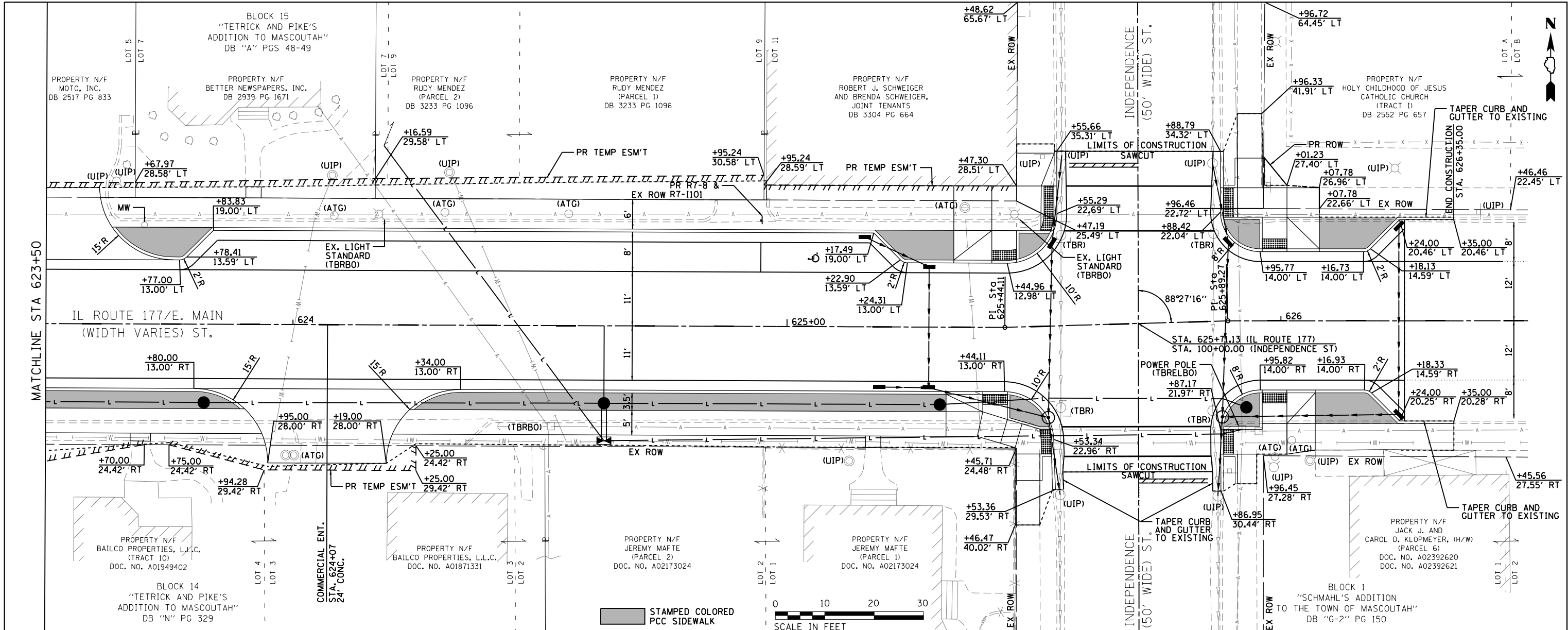


<b>EFK Moen</b> Civil Engineering Design	USER NAME = sd DESIGNED - JRD DRAWN - MSK CHECKED - PJK DATE - 3/30/2020	REVISED - REVISED - REVISED - REVISED -	<b>City of Mascoutah, Illinois</b>	<b>PLAN AND PROFILE</b> <b>E. MAIN ST.</b> SCALE: 1" = 10' SHEET 2 OF 4 SHEETS STA. 620+50.00 TO STA. 623+50.00	F.A.U. RTE. 9377 SECTION 14-00025-00-PV COUNTY ST. CLAIR ILLINOIS FED. AID PROJECT	TOTAL SHEETS 61 SHEET NO. 16
	PLOT SCALE = 20.000000' / 1". PLOT DATE = 3/27/2020	DATE - 3/30/2020			STA. 620+50 621+00 621+50 622+00 622+50 623+00 623+50	



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

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



623+50	624+00	624+50	625+00	625+50	626+00	626+50
426.89	426.94	426.89	426.97	426.83	426.93	426.76
426.92	426.89	426.85	426.81	426.77	426.61	426.55
426.88	426.84	426.70	426.58	426.52	426.51	426.53
426.84	426.71	426.71	426.58	426.59	426.64	426.65
426.84	426.71	426.71	426.58	426.59	426.64	426.65

**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.000000" / 1"	DRAWN - MSK	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

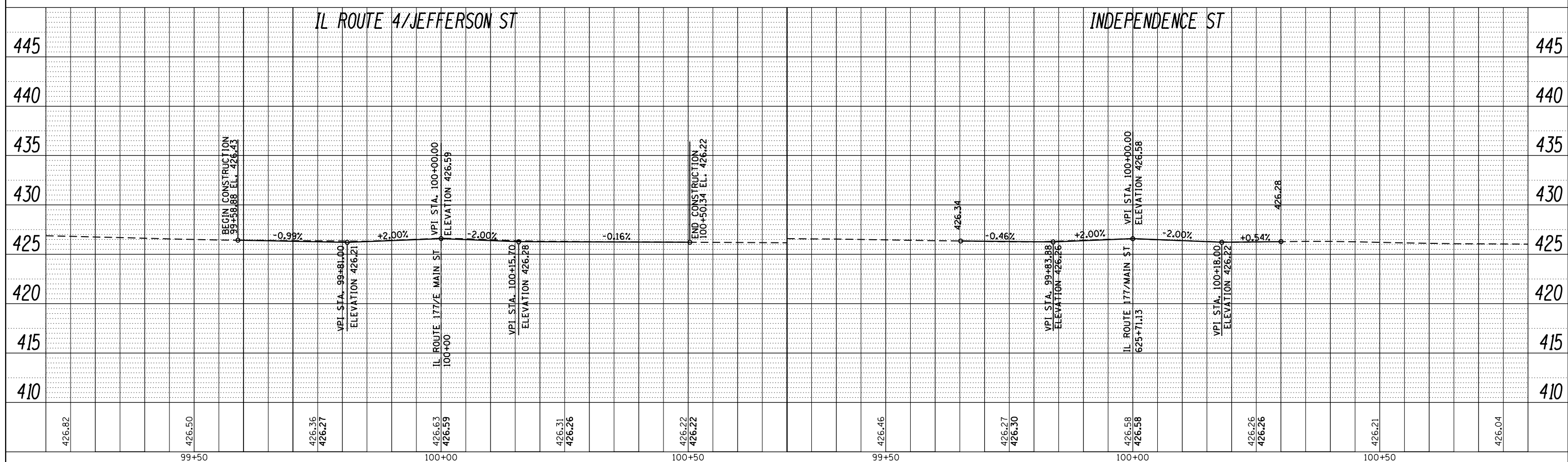
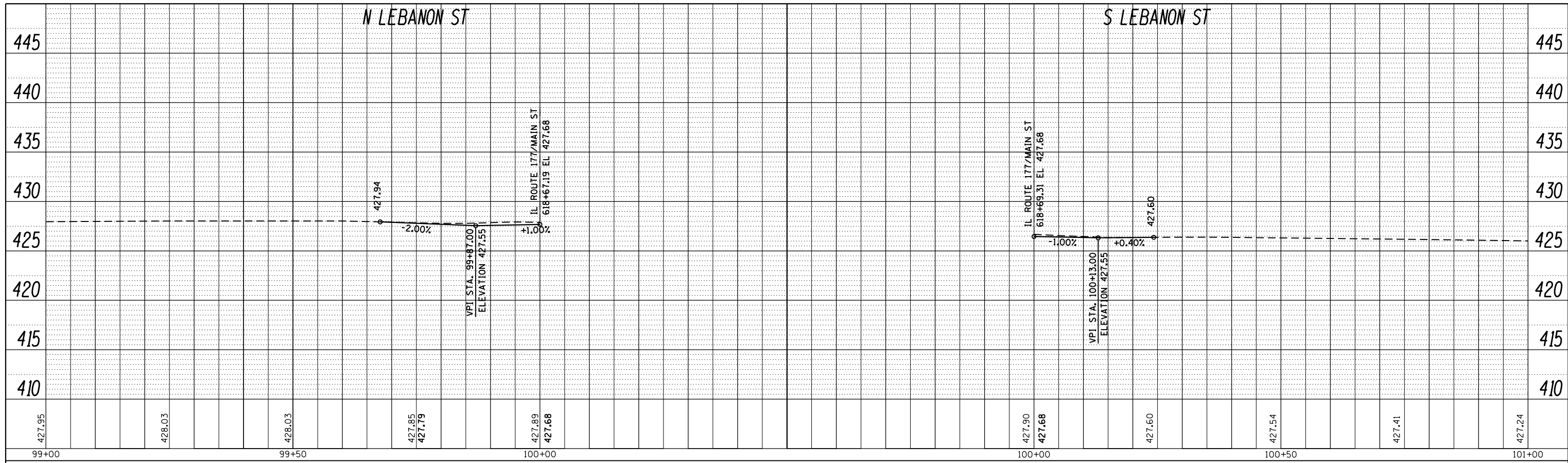
SCALE: 1" = 10'	SHEET 3 OF 4 SHEETS	STA. 623+50.00 TO STA. 626+50.00
-----------------	---------------------	----------------------------------

**PLAN AND PROFILE**  
**E. MAIN ST.**

F.A.U. RTE. 9377	SECTION 14-00025-00-PV	COUNTY ST. CLAIR	TOTAL SHEETS 61	SHEET NO. 17
ILLINOIS FED. AID PROJECT				

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

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



427.95	428.03	428.03	427.85 427.79	427.89 427.68	427.90 427.68	427.60	427.54	427.41	427.24
99+00		99+50		100+00		100+00		100+50	101+00

426.82	426.50	426.36 426.27	426.63 426.59	426.31 426.26	426.22 426.22	426.46	426.27 426.30	426.58 426.58	426.26 426.26	426.21	426.04
99+50			100+00		100+50		99+50		100+50		100+50

**EFK•Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JRD	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

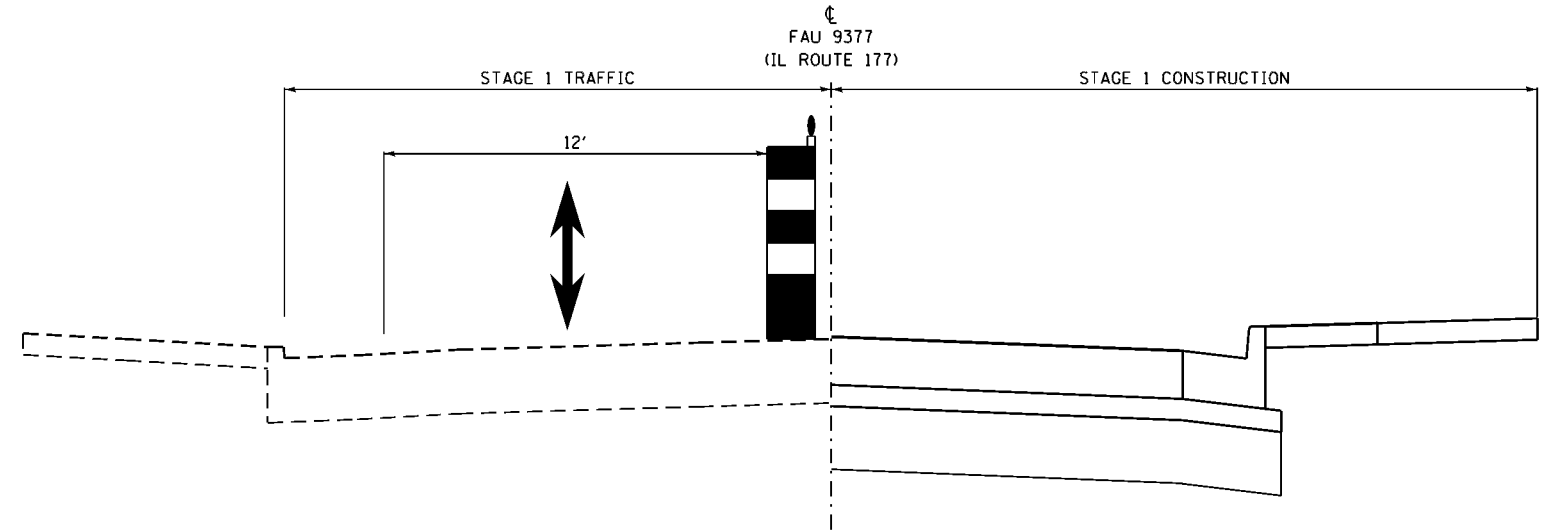
**PROFILE**  
**LEBANON ST., JEFFERSON ST., & INDEPENDENCE ST.**  
SCALE: 10'H=5'V SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00025-00-PV	ST. CLAIR	61	18

ILLINOIS FED. AID PROJECT

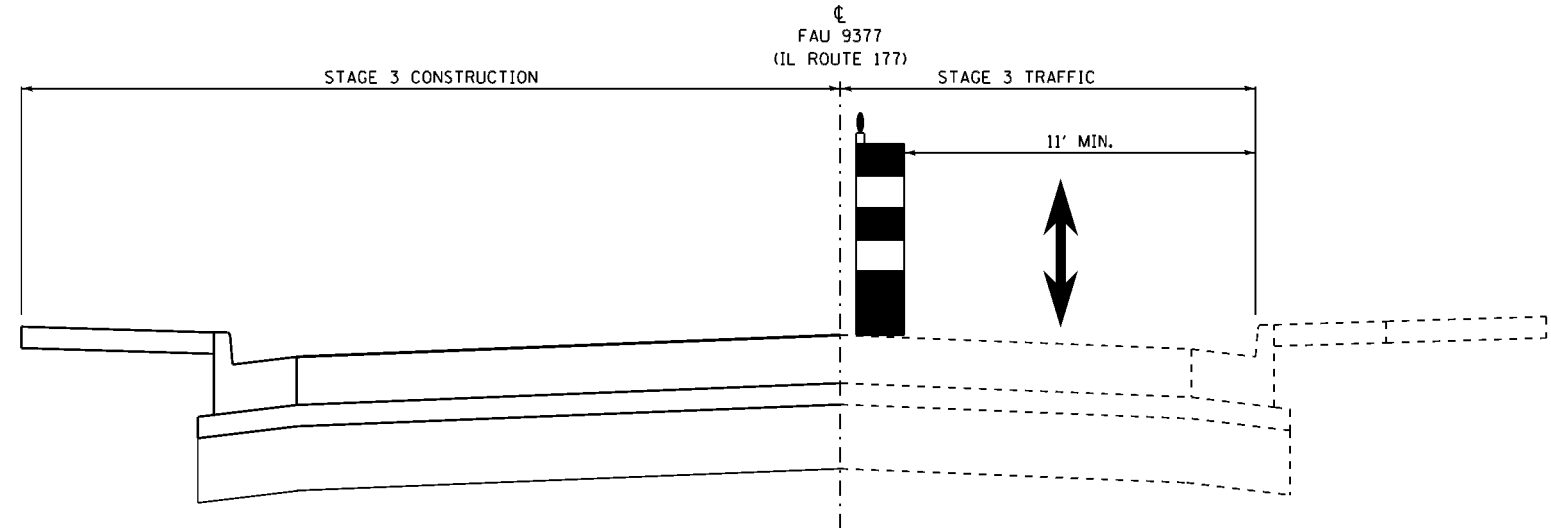
**STAGING NOTES:**

1. SEE SPECIAL PROVISIONS FOR ADDITIONAL CONSTRUCTION STAGING REQUIREMENTS.
2. THE EXACT LOCATION OF THE TEMPORARY SIGNALS AND TEMPORARY CONSTRUCTION SIGNING SHALL BE APPROVED BY THE ENGINEER.
3. PARKING WILL NOT BE PERMITTED ALONG E. MAIN ST. BETWEEN STOP BARS OR AS DIRECTED BY THE ENGINEER FOR THE DURATION OF THE PROJECT.
4. ACCESS TO PARCELS 10, 17, AND 18 FROM E. MAIN ST. WILL BE CLOSED FOR THE DURATION OF THE PROJECT. ACCESS TO PARCELS 10 AND 18 WILL REMAIN OPEN FROM JEFFERSON ST. ACCESS TO PARCEL 17 WILL REMAIN OPEN FROM THE ALLEY SOUTH OF E. MAIN ST. AND NORTH OF E. STATE ST.
5. ALL SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE COVERED.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION & SEDIMENT CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
7. PRIOR TO BEGINNING STAGE 1 THE CONTRACTOR SHALL CONSTRUCT TEMPORARY PIPE REQUIRED TO MAINTAIN STORM SEWER FLOW DURING SUBSEQUENT STAGES OF CONSTRUCTION. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED OVER THE TEMPORARY PIPE. SEE SHEET 24 FOR TEMPORARY PIPE LOCATIONS, SEE SHEET 29 FOR TEMPORARY ITEM SCHEDULE. TEMPORARY CONNECTION TO DRAINAGE STRUCTURES AND PIPES SHALL BE INCLUDED IN THE COST OF STORM SEWER AND TEMPORARY PIPE CULVERT. ALTERNATIVE METHODS OF MAINTAINING STORM SEWER FLOW SHALL BE APPROVED BY THE ENGINEER.
8. STAGE 2 CLOSURE OF THE INTERSECTION OF IL ROUTE 177 (MAIN STREET) AND IL ROUTE 4 WILL BE PERMITTED ONLY ON A WEEKEND. SEE SPECIAL PROVISIONS FOR CLOSURE TIME LIMITS. DETOUR ROUTE SIGNING SHALL BE IN PLACE FOR THE DURATION OF THE STAGE 2 INTERSECTION CLOSURE.



**TYPICAL SECTION – STAGE 1**

LEBANON ST. TO INDEPENDENCE ST.

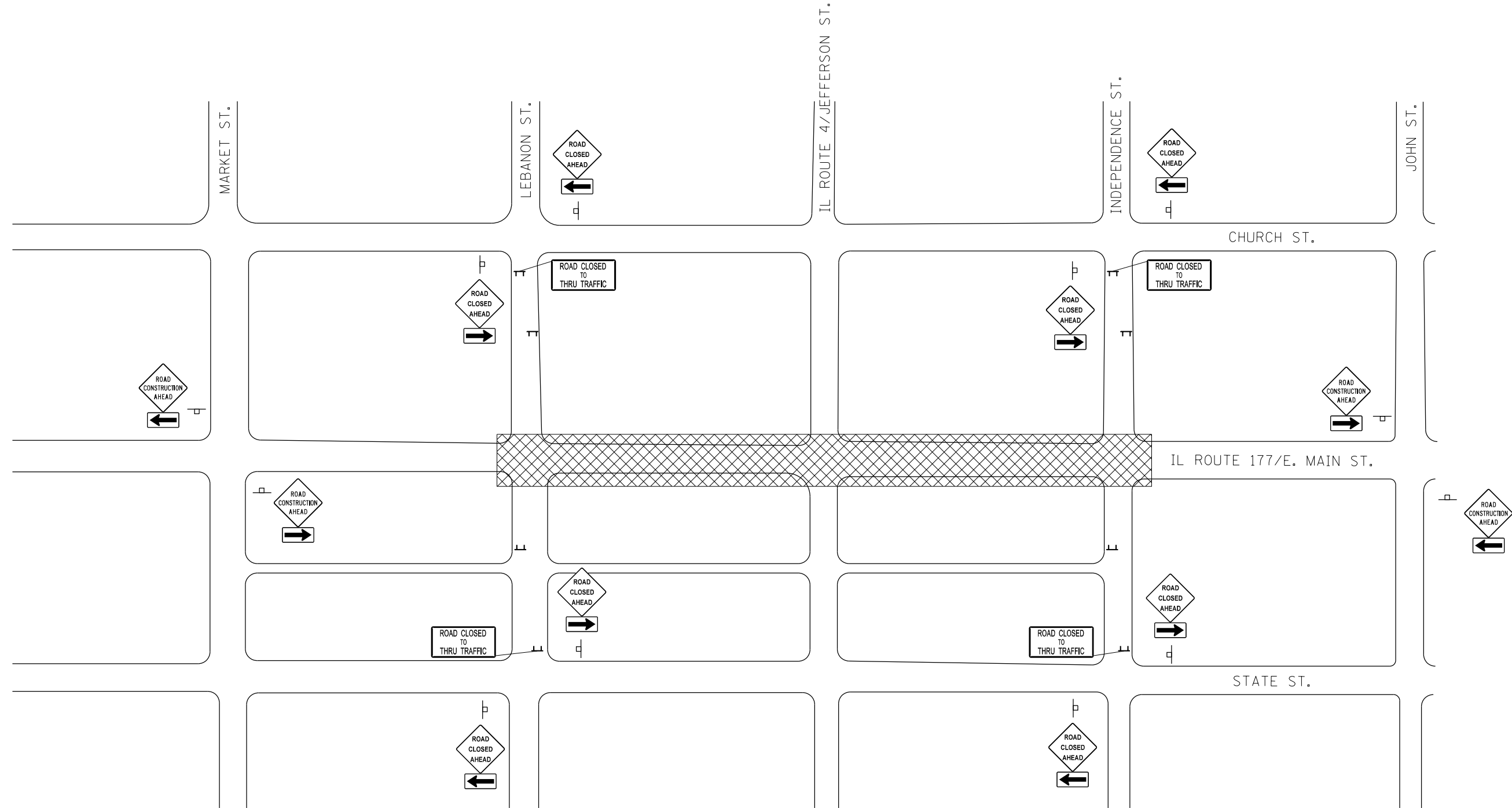
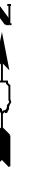


**TYPICAL SECTION – STAGE 3**

LEBANON ST. TO INDEPENDENCE ST.

**NOTES:**

1. ADVANCED SIGNING SHALL BE PLACED 25' PRIOR TO THE INTERSECTION OR AS DIRECTED BY THE ENGINEER.
2. SEE STAGING PLANS FOR ADDITIONAL SIGNING.



**LEGEND**

- SIGN
- TYPE III BARRICADE WITH SIGN R11-2 (ROAD CLOSED)
- AREA OF IMPROVEMENT

**EFK Moen**  
Civil Engineering Design

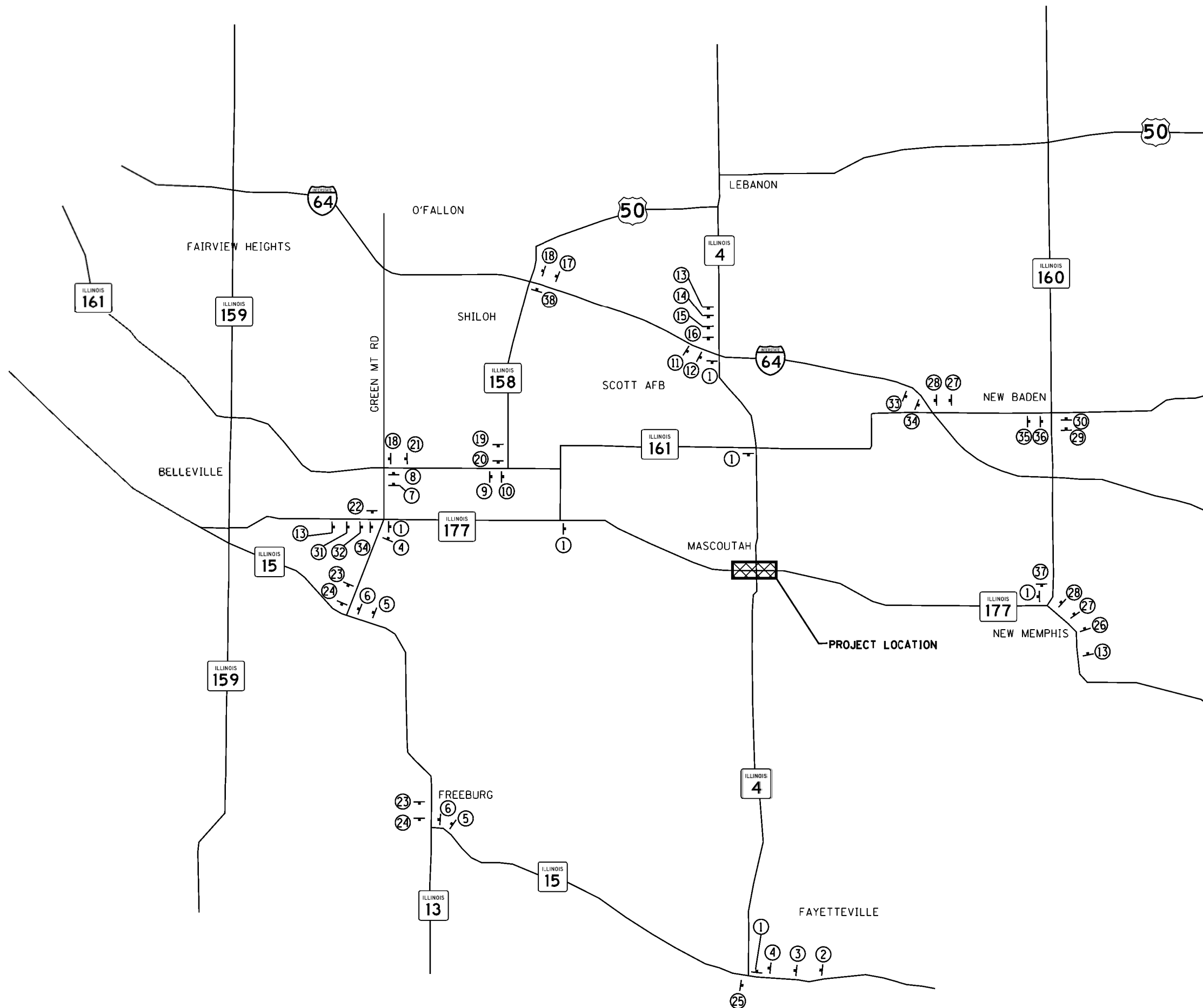
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	DRAWN - JRD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**TRAFFIC CONTROL - E. MAIN ST.**  
**ADVANCED SIGNING FOR STAGE 1 & STAGE 3**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	20

ILLINOIS FED. AID PROJECT



NOTES:  
SEE SHEETS 22 & 23  
FOR SIGNS DETAILS

**EFK Moen**  
Civil Engineering Design

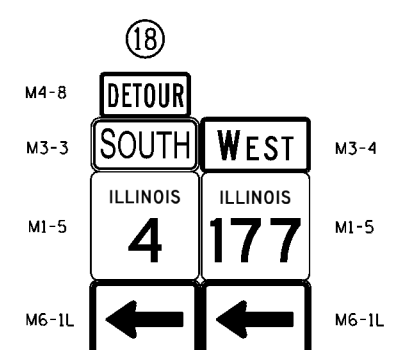
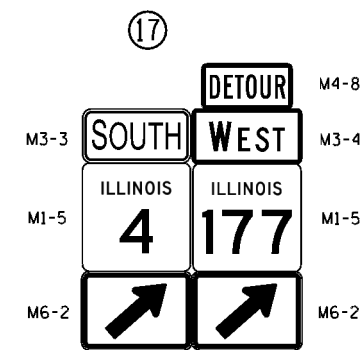
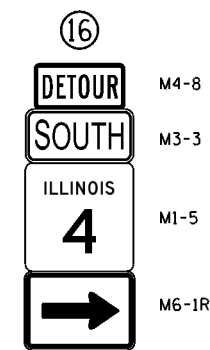
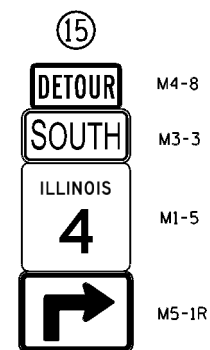
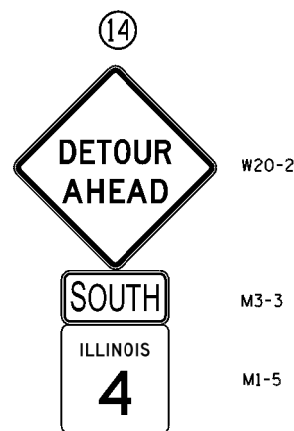
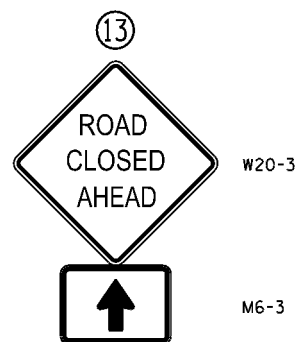
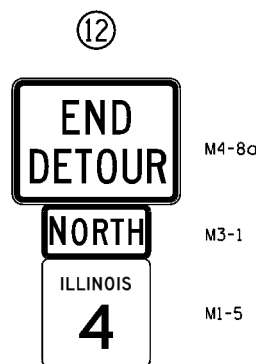
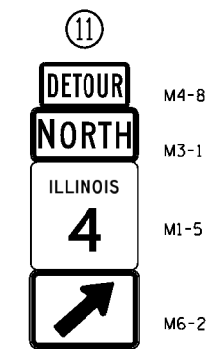
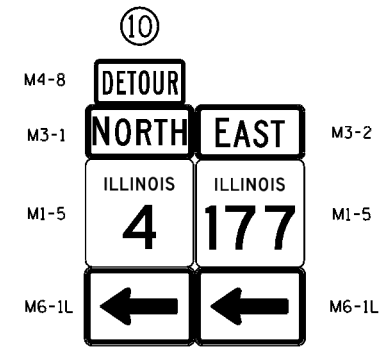
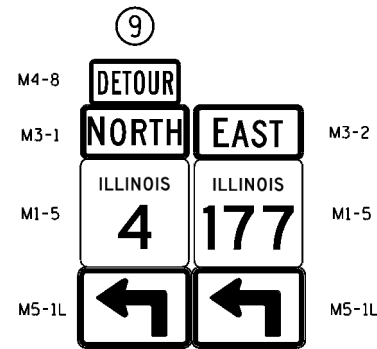
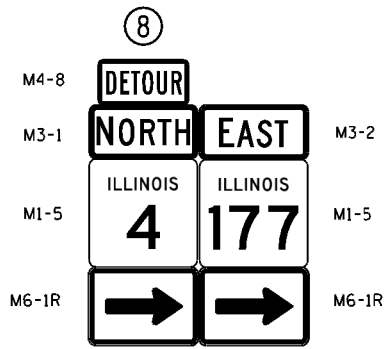
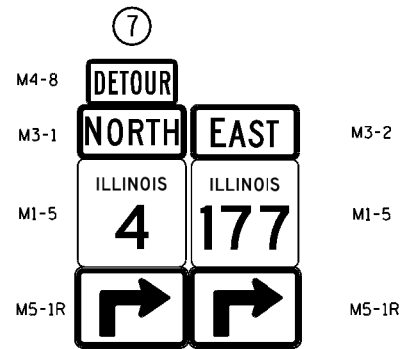
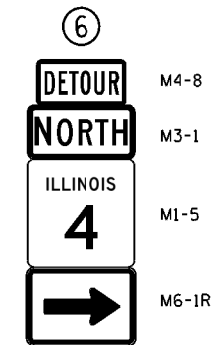
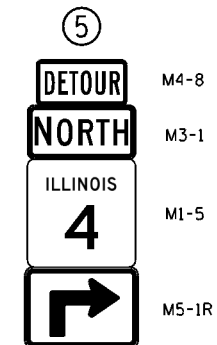
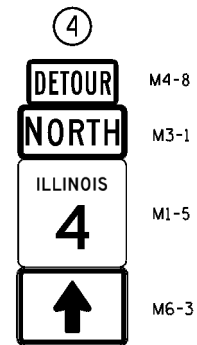
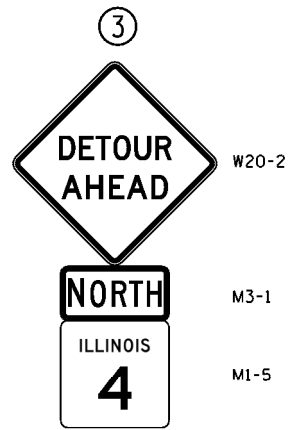
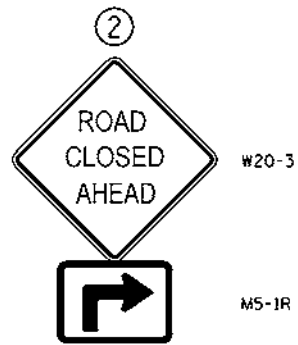
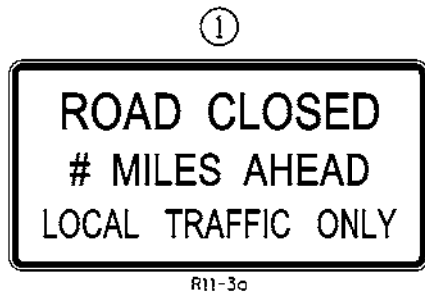
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PLOT DATE = 4/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

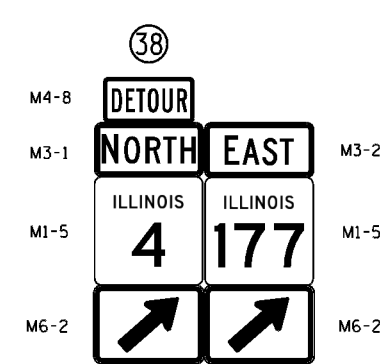
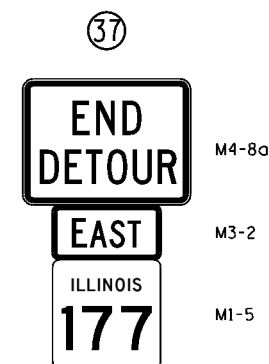
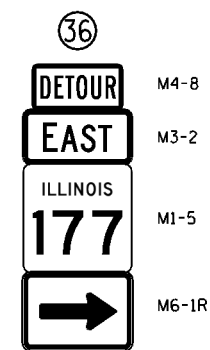
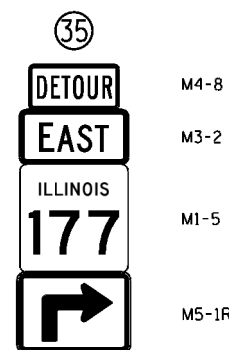
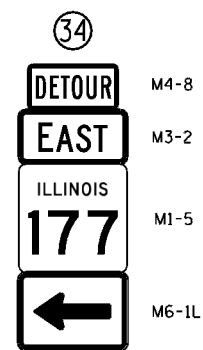
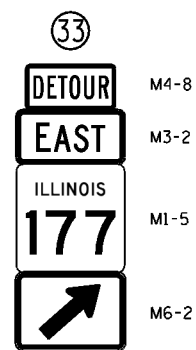
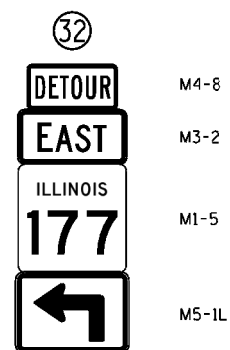
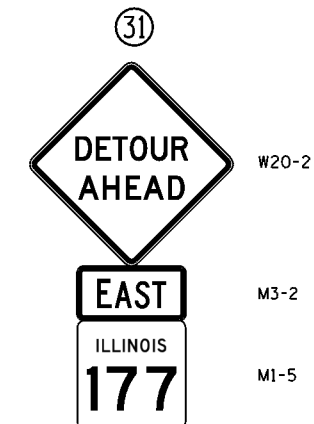
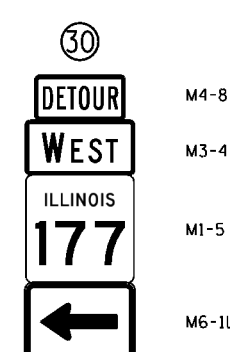
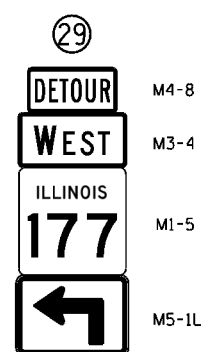
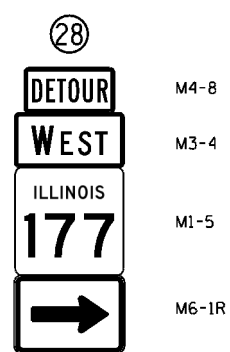
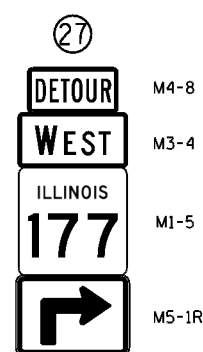
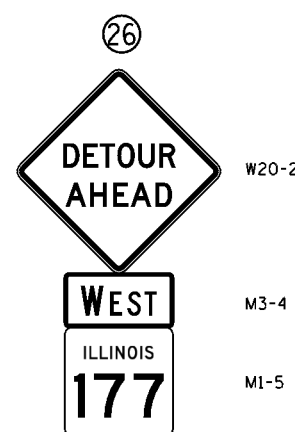
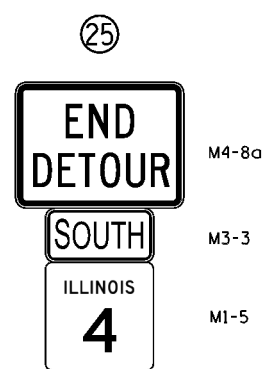
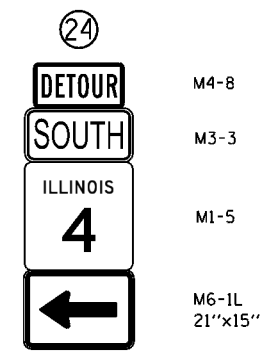
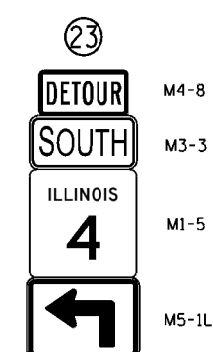
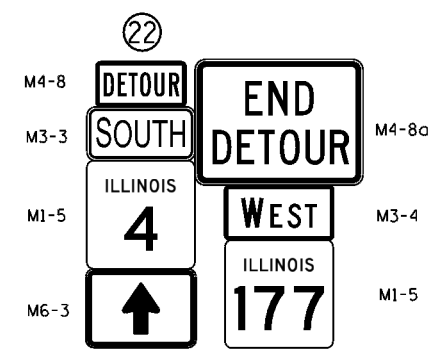
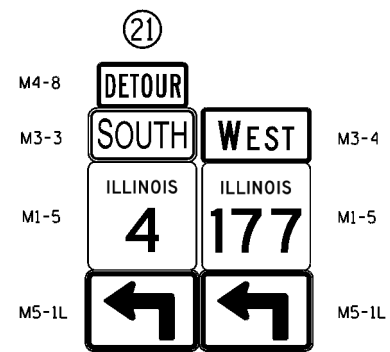
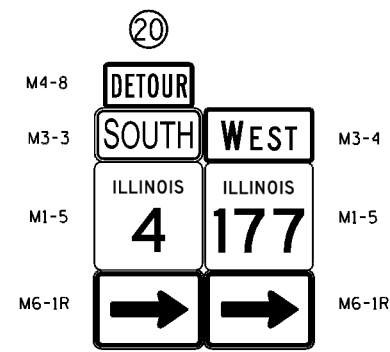
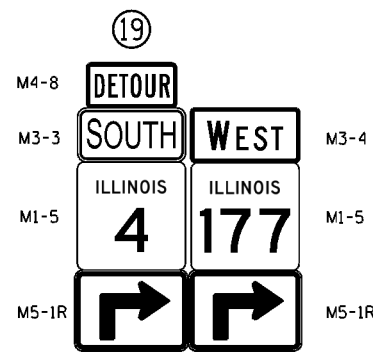
**TRAFFIC CONTROL - DETOUR  
ROUTE 177**

SCALE: N.T.S. SHEET 3 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	21
ILLINOIS FED. AID PROJECT				



NOTES:  
SEE SHEET 21 FOR  
DETOUR MAP  
AND SIGN LOCATIONS



NOTES:  
SEE SHEET 21 FOR  
DETOUR MAP  
AND SIGN LOCATIONS

**EFK Moen**  
Civil Engineering Design

USER NAME = jordan	DESIGNED - JRD	REVISED -
PLOT SCALE = 1/8" = 100'	DRAWN - JRD	REVISED -
PLOT DATE = 4/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**







**TRAFFIC CONTROL - DETOUR  
ROUTE 177**

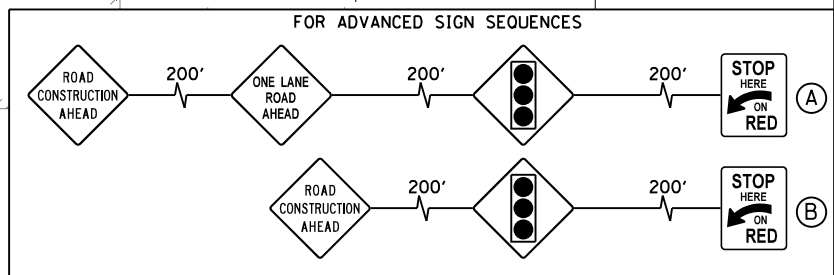
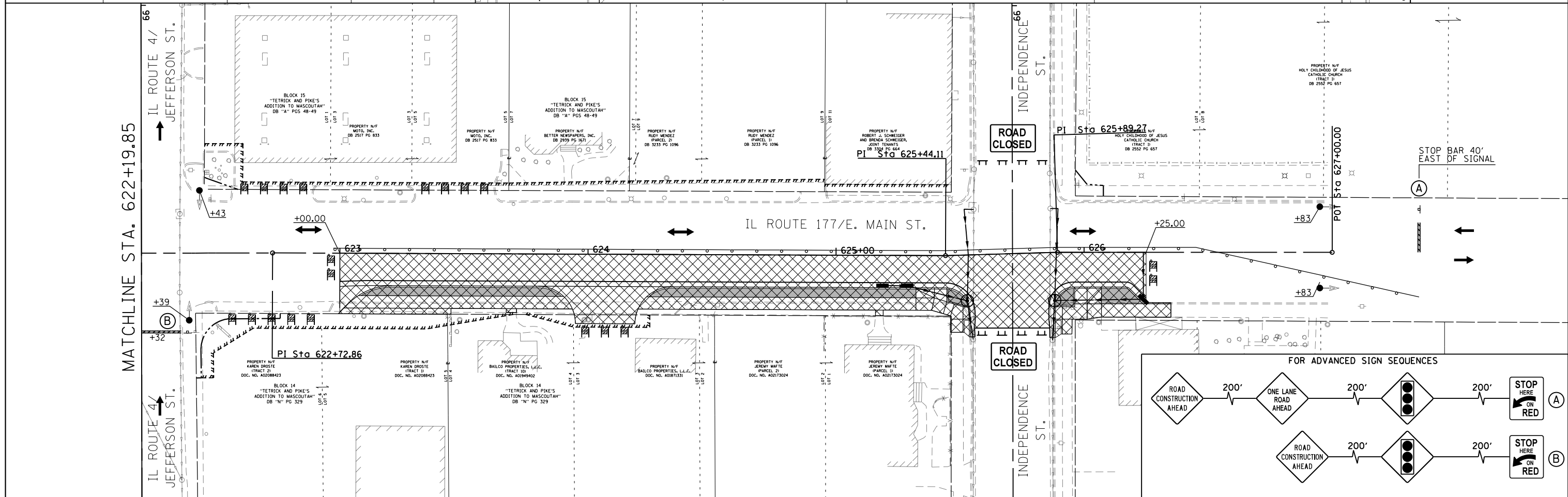
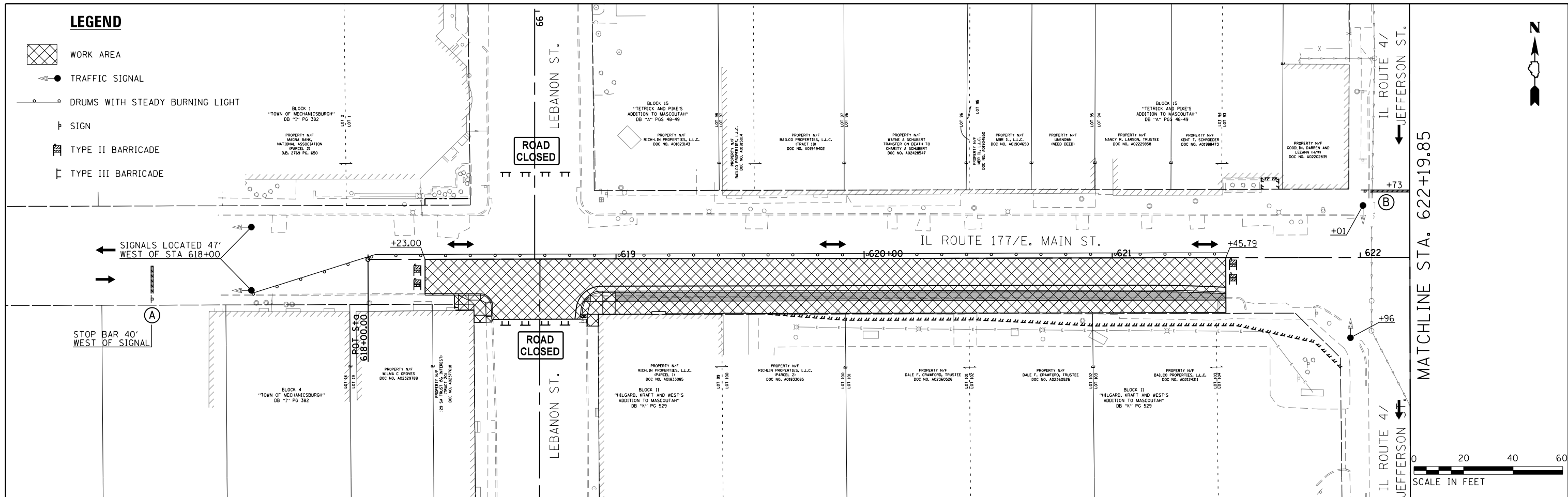
SCALE: N.T.S. SHEET 5 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	23

ILLINOIS FED. AID PROJECT

**LEGEND**

-  WORK AREA
-  TRAFFIC SIGNAL
-  DRUMS WITH STEADY BURNING LIGHT
-  SIGN
-  TYPE II BARRICADE
-  TYPE III BARRICADE



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 48.000000' / in.	DRAWN - JRD	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -







**City of Mascoutah, Illinois**

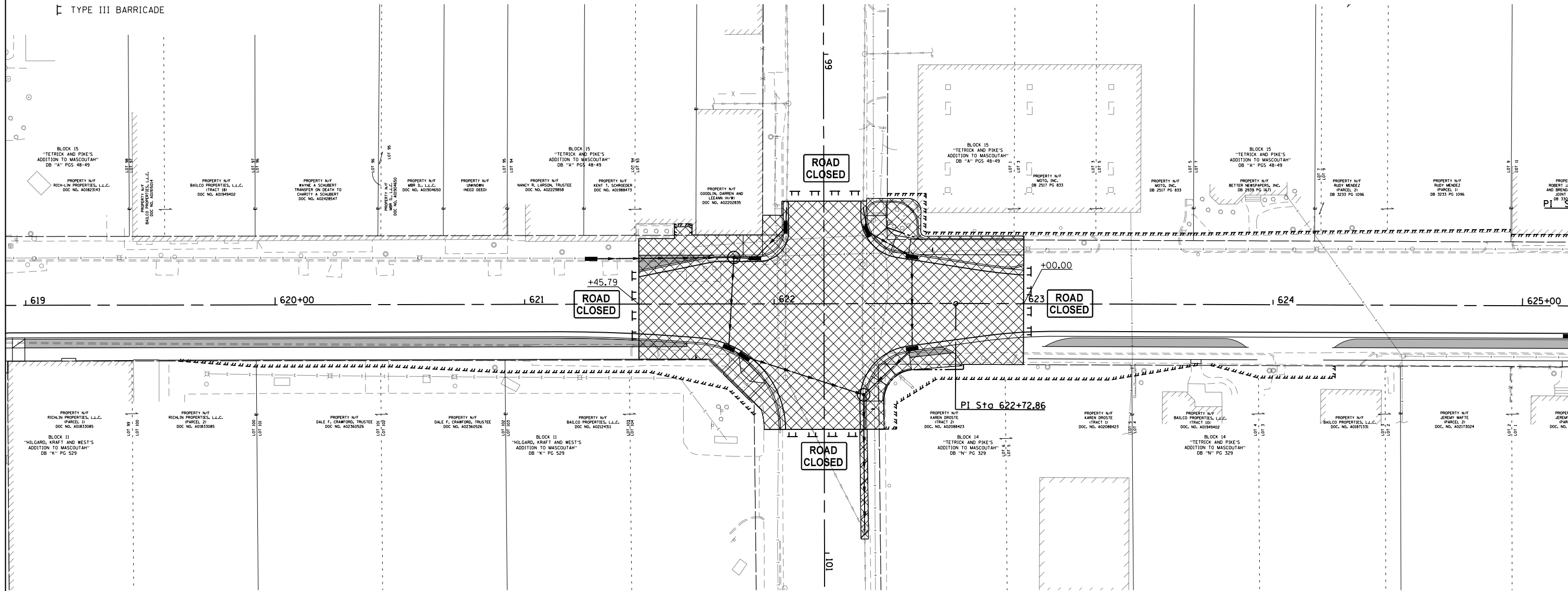
**TRAFFIC CONTROL - E. MAIN ST.**  
**STAGE 1**  
SCALE: 1" = 20' SHEET 6 OF 8 SHEETS STA. 618+23.00 TO STA. 626+25.00

F.A.U. RTE. 9377	SECTION 14-00025-00-PV	COUNTY ST. CLAIR	TOTAL SHEETS 61	SHEET NO. 24
ILLINOIS FED. AID PROJECT				









**LEGEND**

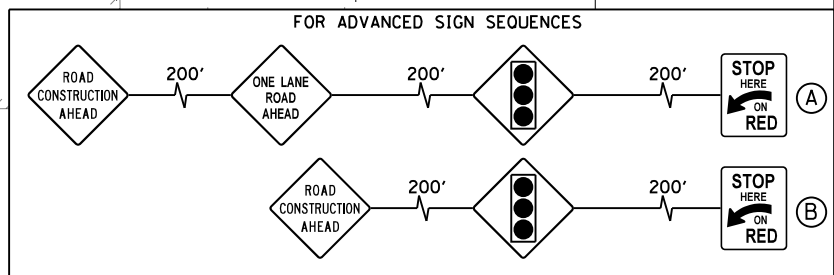
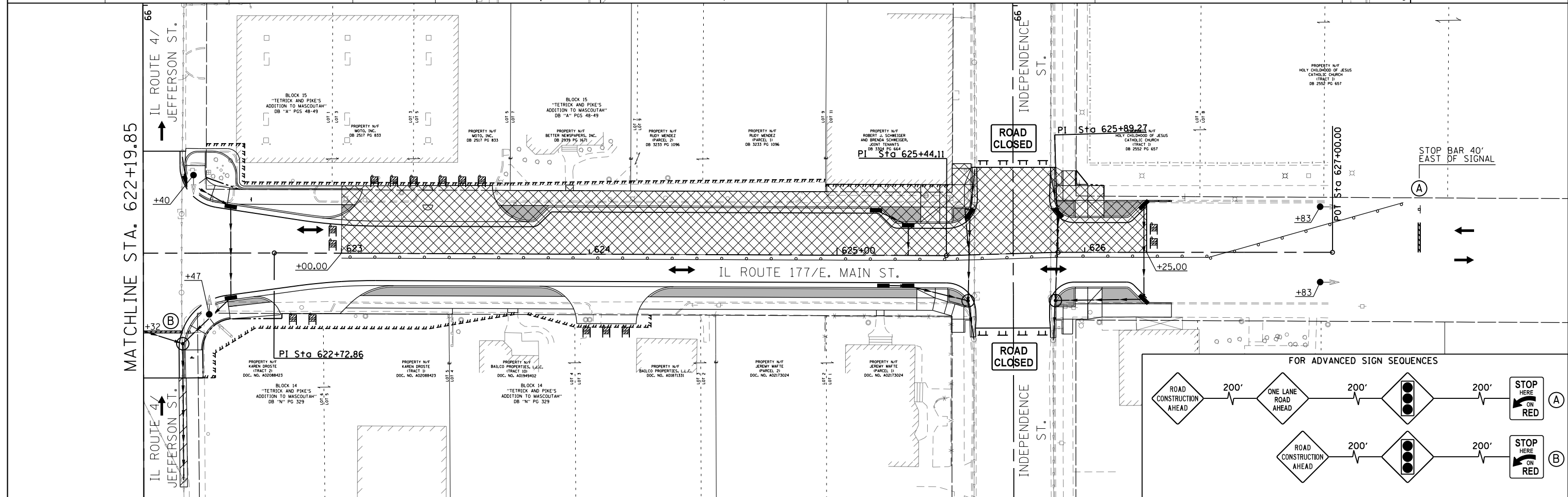
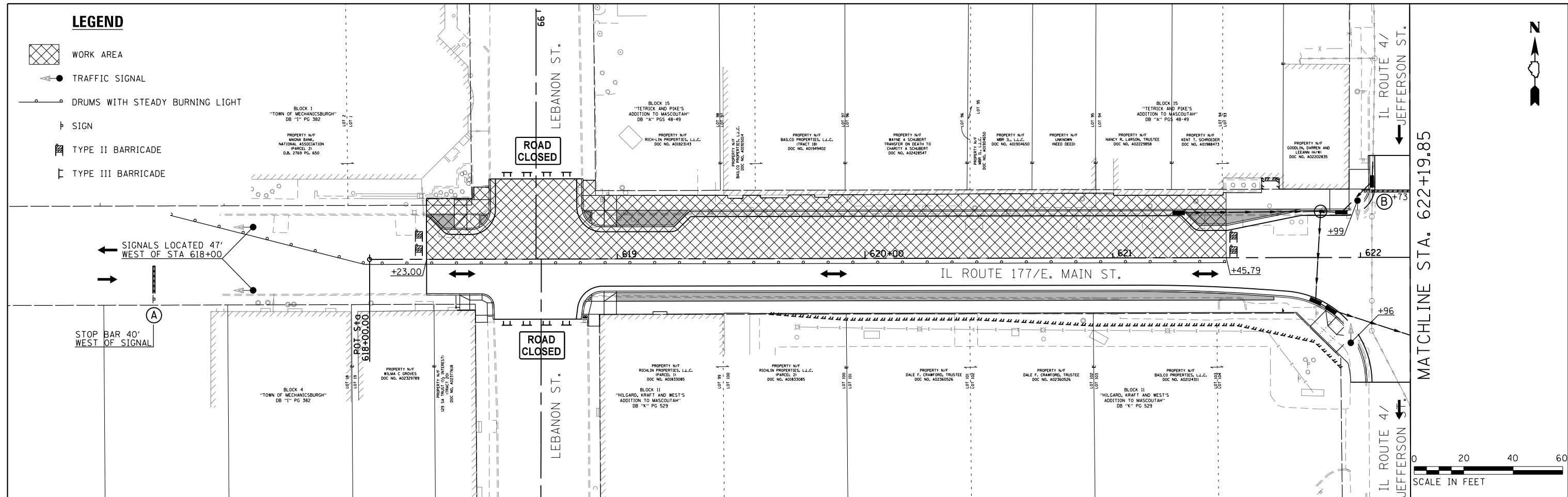
-  WORK AREA
-  TRAFFIC SIGNAL
-  DRUMS WITH STEADY BURNING LIGHT
-  SIGN
-  TYPE II BARRICADE
-  TYPE III BARRICADE



<b>EFK Moen</b> Civil Engineering Design	USER NAME = sd	DESIGNED - JRD	REVISED -	<b>City of Mascoutah, Illinois</b>	<b>TRAFFIC CONTROL - E. MAIN ST. STAGE 2</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.000000' / in.	CHECKED - PJK	REVISED -		SCALE: 1"=20'	SHEET 7 OF 8 SHEETS	STA. 618+23.00 TO STA. 626+25.00	9377	14-00025-00-PV	ST. CLAIR	61	25
	PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -					ILLINOIS FED. AID PROJECT				

**LEGEND**

-  WORK AREA
-  TRAFFIC SIGNAL
-  DRUMS WITH STEADY BURNING LIGHT
-  SIGN
-  TYPE II BARRICADE
-  TYPE III BARRICADE



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 48.000000' / in.	DRAWN - JRD	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

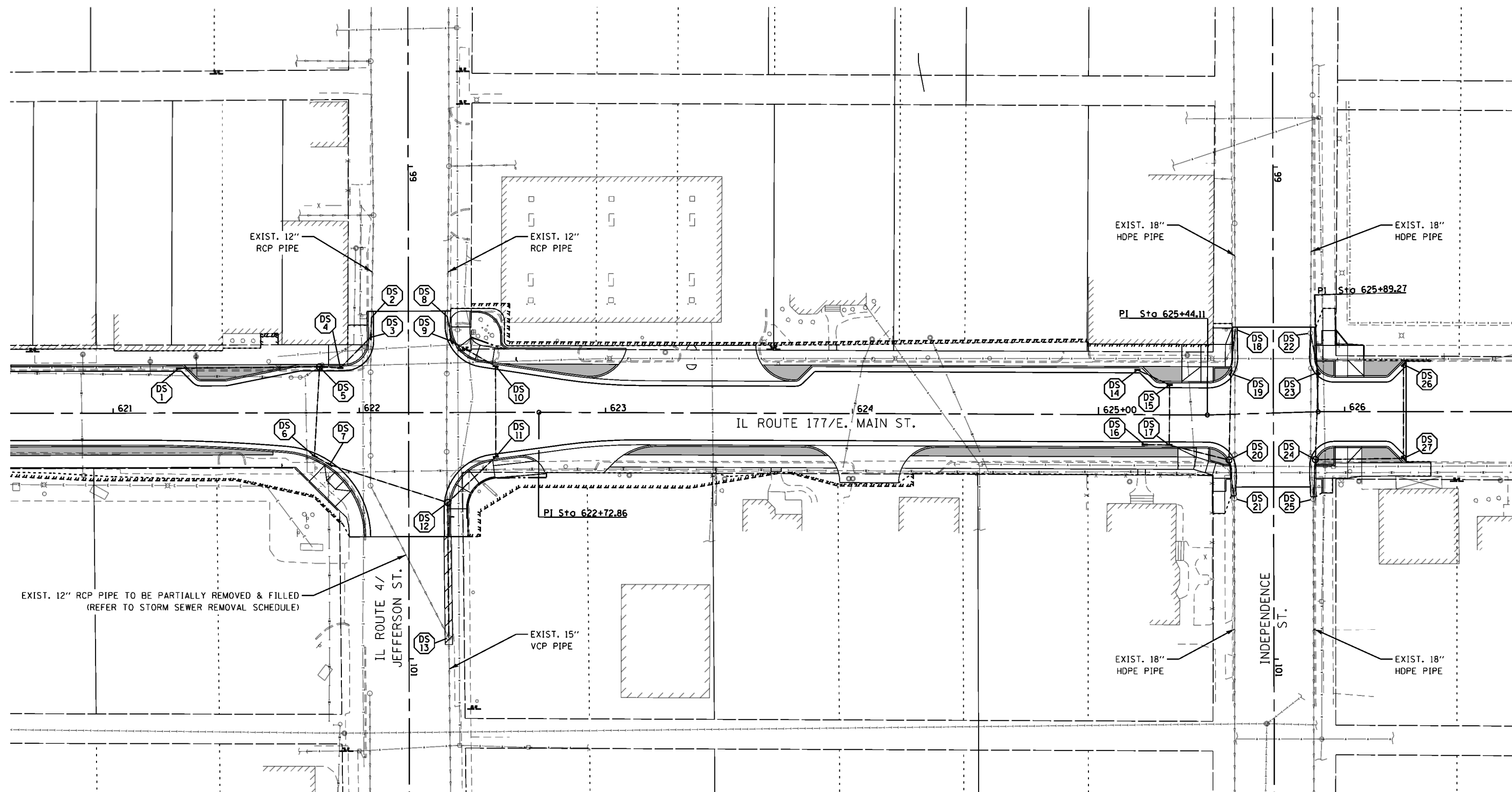
**City of Mascoutah, Illinois**

**TRAFFIC CONTROL - E. MAIN ST.**  
STAGE 3

SCALE: 1" = 20' SHEET 8 OF 8 SHEETS STA. 618+23.00 TO STA. 626+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	26

ILLINOIS FED. AID PROJECT



**NOTES:**

1. ALL DRAINAGE STRUCTURE LOCATIONS PROVIDED AT CENTER OF DRAINAGE STRUCTURE (NOT AT CENTER OF DRAINAGE CASTING).
2. ALL DRAINAGE STRUCTURES HAVE BEEN LOCATED SO THAT ALL DRAINAGE CASTINGS CAN BE LOCATED OUTSIDE OF SIDEWALKS AND CURB RAMPS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL DRAINAGE CASTINGS BE PLACED WHERE INTENDED.
3. THE CONTRACTOR IS ADVISED THAT STORM SEWERS WILL PROTRUDE INTO THE PAVEMENT BASE MATERIAL AND THAT HE/SHE SHALL EXERCISE CAUTION IN THESE AREAS TO PREVENT DAMAGE TO ANY EXISTING OR PROPOSED DRAINAGE ELEMENTS. ANY VARIATIONS IN PAVEMENT BASE PLACEMENT METHODS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR WHICH THE PLACEMENT VARIATION IS BEING MADE; NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
4. THE CONTRACTOR IS ADVISED THAT MINIMAL TRENCH BACKFILL WILL BE REQUIRED FOR THIS PROJECT. ANY TRENCH BACKFILL REQUIRED SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR WHICH IT IS BEING PLACED; NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
5. PROPOSED STORM SEWERS CROSSING UNDER IL ROUTE 177 / E. MAIN ST. SHALL BE DUCTILE IRON AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR STORM SEWER (WATER MAIN REQUIREMENTS) OF THE SIZE SPECIFIED.
6. ANY EXISTING PAVEMENT DISTURBED DURING REMOVAL AND CONSTRUCTION OF STORM SEWER AND DRAINAGE STRUCTURES BEYOND THE PAVEMENT REMOVAL AND PAVEMENT PATCHING LIMITS SHOWN ON THE PLANS SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 442. THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF THE STORM SEWER OR DRAINAGE STRUCTURE. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

DS SEE SHEET 28 FOR DRAINAGE STRUCTURE SCHEDULE



**EFK Moen**  
Civil Engineering Design

USER NAME = jordan	DESIGNED - BJC	REVISED -
PLOT SCALE = 48.000000' / in.	DRAWN - BJC	REVISED -
PLOT DATE = 4/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**PROPOSED DRAINAGE PLAN**  
SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. 618+20 TO STA. 626+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	27
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE SCHEDULE																	
PLAN STRUCTURE NUMBER	LOCATION		STRUCTURE CASTING TOP* ELEVATION (FEET)	INVERT ELEVATION (FEET)	INLET FILTERS (EACH)	INLETS TA T3 F&G (EACH)	INLETS TB T3 F&G (EACH)	INLETS TB T24 F&G (EACH)	MAN TA 4 DIA T3 F&G (EACH)	MAN TA 4 DIA T24 F&G (EACH)	DRAIN STRUCTURES N1 (EACH)	DRAIN STRUCTURES N2 (EACH)	PRO SS CONN TO EX MAN (EACH)	CONCRETE COLLAR (CU YD)	INLETS ADJ WITH NEW T24 F&G (EACH)	FLAT SLAB TOP REQUIRED	NOTES
	STATION	OFFSET															
1	STA. 621+26.65	18.27' LT.	426.19	423.76	1	1										-	-
2	STA. 622+05.07	38.65' LT.	426.10*	424.27*										0.3		-	SEE DRAINAGE DETAILS SHEET
3	STA. 622+04.85	30.65' LT.	426.10	423.69	1			1								YES	-
4	STA. 621+92.34	18.02' LT.	426.07	423.64	1			1								YES	-
5	STA. 621+83.91	18.60' LT.	426.01	423.62	1				1							YES	-
6	STA. 621+81.75	17.71' RT.	426.06	423.53	1				1							-	-
7	STA. 621+88.10	20.96' RT.	426.02	423.51	1			1								YES	-
8	STA. 622+35.80	38.84' LT.	426.18*	424.29*										0.3		-	SEE DRAINAGE DETAILS SHEET
9	STA. 622+37.19	28.93' LT.	426.10	423.63	1			1								YES	-
10	STA. 622+55.32	18.83' LT.	426.22	423.55	1											YES	-
11	STA. 622+55.32	18.12' RT.	426.22	423.46	1											YES	-
12	STA. 622+35.83	36.53' RT.	425.97	423.39	1											YES	-
13	STA. 622+36.13	91.50' RT.	425.83*	423.33*	1											-	-
14	STA. 625+15.67	18.27' LT.	426.19	423.72	1	1										-	-
15	STA. 625+28.73	12.27' LT.	426.18	423.65	1			1								YES	-
16	STA. 625+18.73	12.27' RT.	426.12	423.58	1	1										-	-
17	STA. 625+28.73	12.27' RT.	426.12	423.53	1			1								YES	-
18	STA. 625+56.64	34.46' LT.	426.17*	423.84*	1									1		-	-
19	STA. 625+53.59	16.72' LT.	426.08	423.45	1						1					YES	SEE DRAINAGE DETAILS SHEET
20	STA. 625+52.38	18.49' RT.	426.00	423.41	1							1				YES	SEE DRAINAGE DETAILS SHEET
21	STA. 625+54.30	34.19' RT.	425.89*	423.39*	1								1			-	-
22	STA. 625+87.09	31.94' LT.	425.96*	423.74*	1								1			-	-
23	STA. 625+89.93	16.01' LT.	426.17	423.41	1							1				YES	SEE DRAINAGE DETAILS SHEET
24	STA. 625+87.58	19.38' RT.	426.16	423.37	1								1			YES	SEE DRAINAGE DETAILS SHEET
25	STA. 625+86.22	35.38' RT.	425.89*	423.35*	1								1			-	-
26	STA. 626+23.82	19.24' LT.	426.43	423.62	1	1										-	-
27	STA. 626+23.72	18.59' RT.	426.35	423.49	1			1								YES	-
TOTALS					25	4	5	4	2	1	2	2	5	0.6	1		

\*TOP ELEVATION REFERS TO ELEVATION OF DRAINAGE CASTING AT FLOWLINE OF GUTTER UNLESS OTHERWISE NOTED

DOWNSPOUT SCHEDULE			
ROADWAY	STATION	OFFSET	DOWNSPOUT CONNECTION (EACH)
E MAIN ST	619+93.00	25' LT	1
E MAIN ST	620+39.00	25' LT	1
E MAIN ST	621+00.00	25' LT	1
E MAIN ST	621+44.00	26' LT	1
E MAIN ST	621+96.00	29' LT	1
E MAIN ST	625+47.00	30' LT	1
E MAIN ST	618+95.00	23' RT	1
E MAIN ST	619+54.00	22' RT	1
TOTALS			8

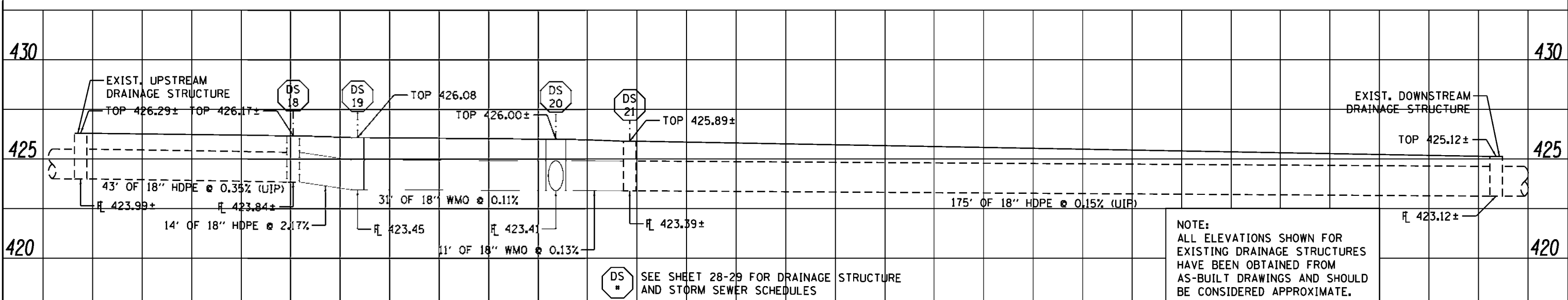
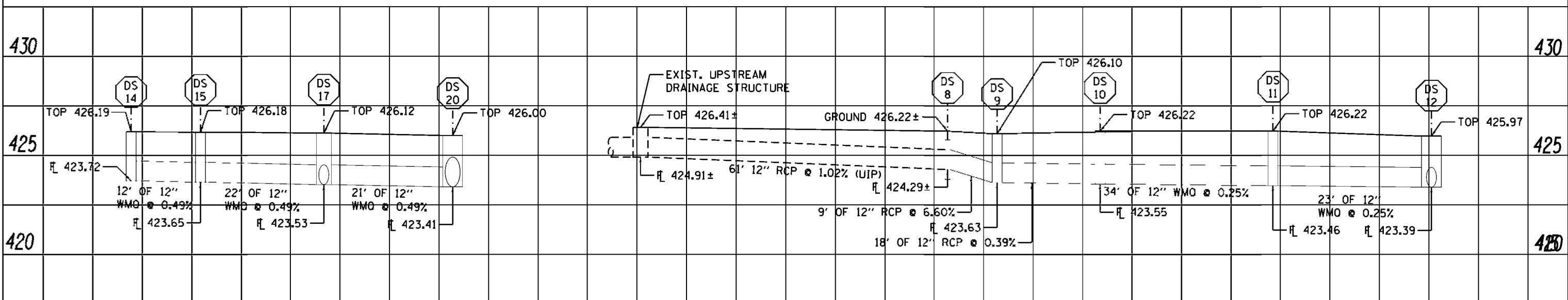
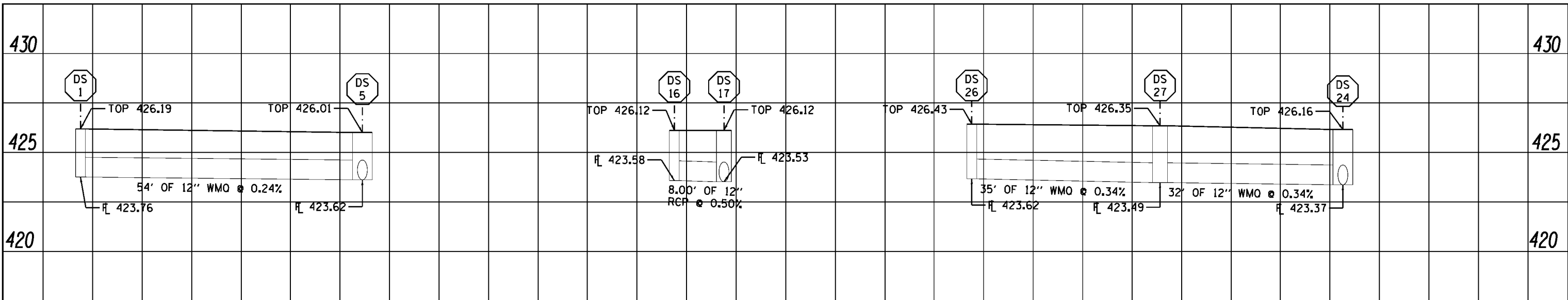
DRAINAGE STRUCTURE REMOVAL SCHEDULE		
LOCATION		DRAINAGE STR TO BE REMOVED (EACH)
STATION	OFFSET	
STA. 622+04.61	16.40' LT.	1
STA. 622+04.55	17.50' RT.	1
STA. 622+04.49	29.61' RT.	1
STA. 622+35.51	15.80' LT.	1
STA. 622+35.40	15.90' RT.	1
STA. 625+56.01	18.29' LT.	1
STA. 625+54.96	16.55' RT.	1
STA. 625+86.90	17.75' LT.	1
STA. 625+85.66	18.08' RT.	1
TOTALS		9

STORM SEWER SCHEDULE									
PIPE I.D. (DS to DS)	UPSTREAM INVERT  ( FEET)	DOWNSTREAM INVERT  ( FEET)	APPROX. SLOPE  (%)	STORM SEW CL A 1 12"	STORM SEW WM REQ 12"	STORM SEW CL B 1 18"	STORM SEW WM REQ 18"	AVERAGE TRENCH DEPTH  ( FEET)	STORM SEWERS REQUIRING MINIMAL TRENCH BACKFILL
1 to 5	423.76	423.62	0.24%		54			0.83	
2 to 3	424.27*	423.69	7.25%		7			0.54	
3 to 4	423.69	423.64	0.28%		15			1.50	
4 to 5	423.64	423.62	0.24%		5			0.83	
5 to 6	423.62	423.53	0.25%		33			0.88	
6 to 7	423.53	423.51	0.28%		4			0.94	
7 to 12	423.51	423.39	0.24%		46			0.96	
8 to 9	424.29*	423.63	6.60%	9				0.60	
9 to 10	423.63	423.55	0.39%	18				1.65	
10 to 11	423.55	423.46	0.25%		34			1.13	X
11 to 12	423.46	423.39	0.25%		23			1.09	X
12 to 13	423.39	423.33*	0.11%	51				0.96	
14 to 15	423.72	423.65	0.49%		12			0.92	
15 to 17	423.65	423.53	0.49%		22			0.98	
16 to 17	423.58	423.53	0.50%	8				0.99	
17 to 20	423.53	423.41	0.49%		21			1.68	
18 to 19	423.84*	423.45	2.17%			14		0.65	
19 to 20	423.45	423.41	0.11%				31	0.78	
20 to 21	423.41	423.39*	0.13%				11	0.71	
22 to 23	423.74*	423.41	2.02%			13		0.66	
23 to 24	423.41	423.47	0.11%				31	0.94	X
24 to 25	423.37	423.35*	0.12%				12	0.83	X
26 to 27	423.62	423.49	0.34%		35			1.25	X
27 to 24	423.49	423.37	0.34%		32			1.91	X
TOTALS				86	343	27	85		

NOTES:  
 \* PIPE LENGTHS PROVIDED REPRESENT THE TOTAL LENGTH BETWEEN STRUCTURES FROM INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE

TEMPORARY ITEMS SCHEDULE							
BEGIN LOCATION		END LOCATION		P CUL CL C 1 18 TEMP	PIPE ELBOW 18	TEMP PAVEMENT	NOTES
STATION	OFFSET	STATION	OFFSET	( FOOT)	( EACH)	( SQ YD)	
STA. 625+56.02	18.23' LT.	STA. 625+53.31	CL	22	1	9	PRIOR TO STAGE 1
STA. 625+86.91	17.75' LT.	STA. 625+89.46	CL	21	1	8	PRIOR TO STAGE 1
TOTALS				43	2	17	

STORM SEWER REMOVAL SCHEDULE								
BEGIN LOCATION		END LOCATION		STORM SEWER REM 12	STORM SEWER REM 18	STORM SEWER FILLED	STORM SEWER REMOVAL	NOTES
STATION	OFFSET	STATION	OFFSET	( FOOT)	( FOOT)	( FOOT)	( FOOT)	
STA. 622+05.07	38.65' LT.	STA. 622+04.61	16.40' LT.	22				EXIST. 12" RCP
STA. 622+04.61	16.40' LT.	STA. 622+04.55	17.50' RT.				34	EXIST. 2' x2' BOX
STA. 622+04.55	17.50' RT.	STA. 622+04.49	29.61' RT.	12				EXIST. 12" RCP
STA. 622+04.49	29.61' RT.	STA. 622+14.94	50.34' RT.	23				EXIST. 12" RCP
STA. 622+14.94	50.34' RT.	STA. 622+34.08	87.48' RT.			41		EXIST. 12" RCP
STA. 622+34.08	87.48' RT.	STA. 622+36.13	91.50' RT.	5				EXIST. 12" RCP
STA. 622+35.80	38.84' LT.	STA. 622+35.51	15.80' LT.	23				EXIST. 12" RCP
STA. 622+35.51	15.80' LT.	STA. 622+35.40	15.90' RT.				32	EXIST. 2' x2' BOX
STA. 622+35.40	15.90' RT.	STA. 622+36.13	91.50' RT.	76				EXIST. 12" VCP
STA. 625+56.64	34.46' LT.	STA. 625+56.01	18.29' LT.		16			EXIST. 18" HDPE
STA. 625+56.01	18.29' LT.	STA. 625+54.96	16.55' RT.				35	EXIST. 2' x2' BOX
STA. 625+54.96	16.55' RT.	STA. 625+54.30	34.19' RT.		18			EXIST. 18" HDPE
STA. 625+87.09	31.94' LT.	STA. 625+86.90	17.75' LT.		14			EXIST. 18" HDPE
STA. 625+86.90	17.75' LT.	STA. 625+85.66	18.08' RT.				36	EXIST. 2' x2' BOX
STA. 625+85.66	18.08' RT.	STA. 625+86.22	35.38' RT.		17			EXIST. 18" HDPE
TOTALS				161	65	41	137	



NOTE:  
ALL ELEVATIONS SHOWN FOR  
EXISTING DRAINAGE STRUCTURES  
HAVE BEEN OBTAINED FROM  
AS-BUILT DRAWINGS AND SHOULD  
BE CONSIDERED APPROXIMATE.

DS \* SEE SHEET 28-29 FOR DRAINAGE STRUCTURE AND STORM SEWER SCHEDULES

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

**EFK•Moen**  
Civil Engineering Design

USER NAME = jdoerden  
PLOT SCALE = 28.000000' / in.  
PLOT DATE = 4/27/2020

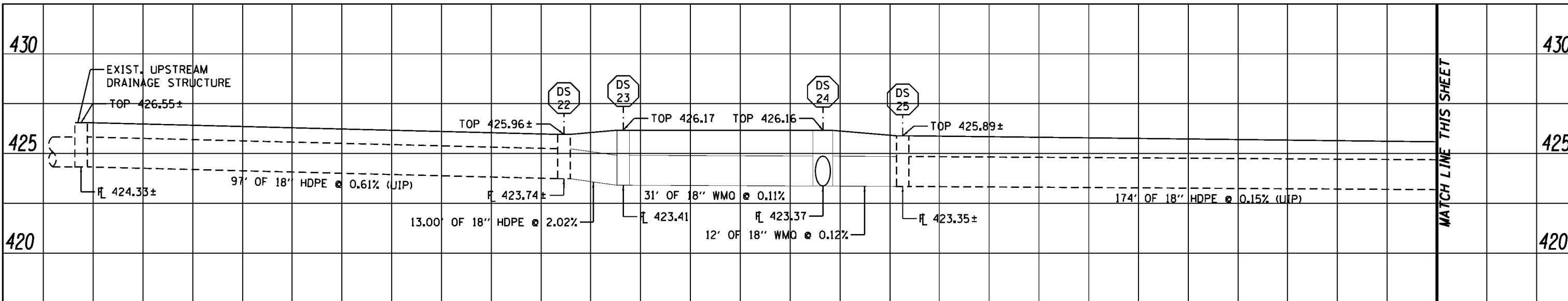
DESIGNED - BJC  
DRAWN - MSK  
CHECKED - PJK  
DATE - 3/30/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

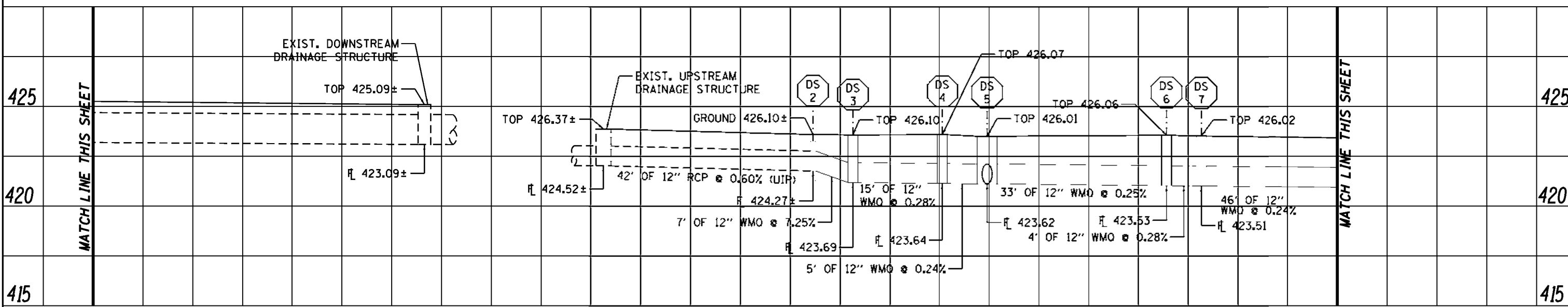
**City of Mascoutah, Illinois**

**DRAINAGE PROFILES**  
SCALE: 20'H:5'V SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	30
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

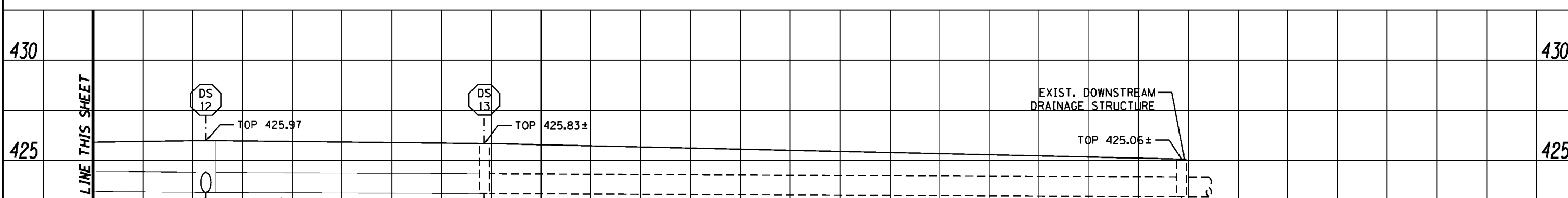


MATCH LINE THIS SHEET



MATCH LINE THIS SHEET

MATCH LINE THIS SHEET



MATCH LINE THIS SHEET

DS \* SEE SHEET 28-29 FOR DRAINAGE STRUCTURE AND STORM SEWER SCHEDULES

NOTE:  
ALL ELEVATIONS SHOWN FOR  
EXISTING DRAINAGE STRUCTURES  
HAVE BEEN OBTAINED FROM  
AS-BUILT DRAWINGS AND SHOULD  
BE CONSIDERED APPROXIMATE.

DATE	
BY	
PROFILE	
REVISIONS	
NO.	
NOTE BOOK	
GRANGES CHECKED	
STRUCTURE NOTATIONS CHD	

**EFK Moen**  
Civil Engineering Design

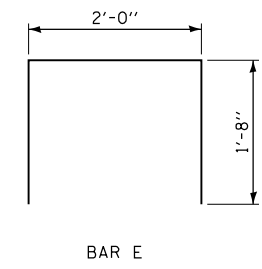
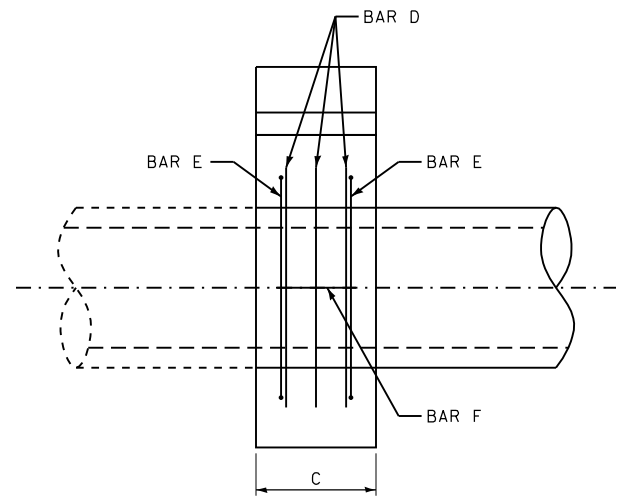
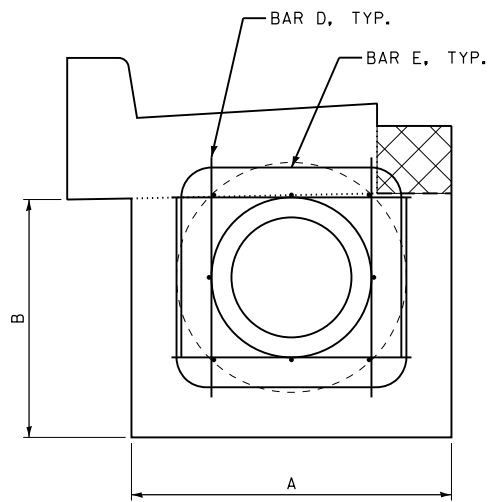
USER NAME = jbordean	DESIGNED - BJC	REVISED -
PLOT SCALE = 28.000000' / in.	DRAWN - MSK	REVISED -
PLOT DATE = 4/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**DRAINAGE PROFILES**  
SCALE: 20'H:5'V SHEET 5 OF 7 SHEETS STA. TO STA.

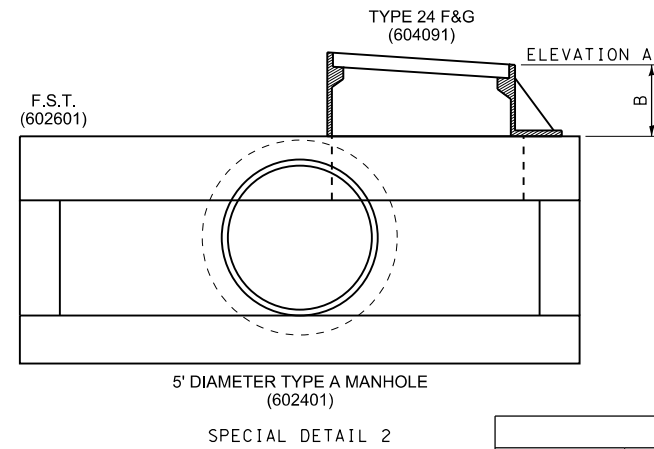
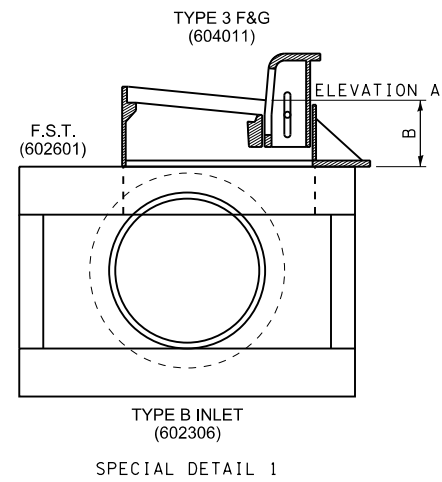
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	31
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**CONCRETE COLLAR DETAILS**



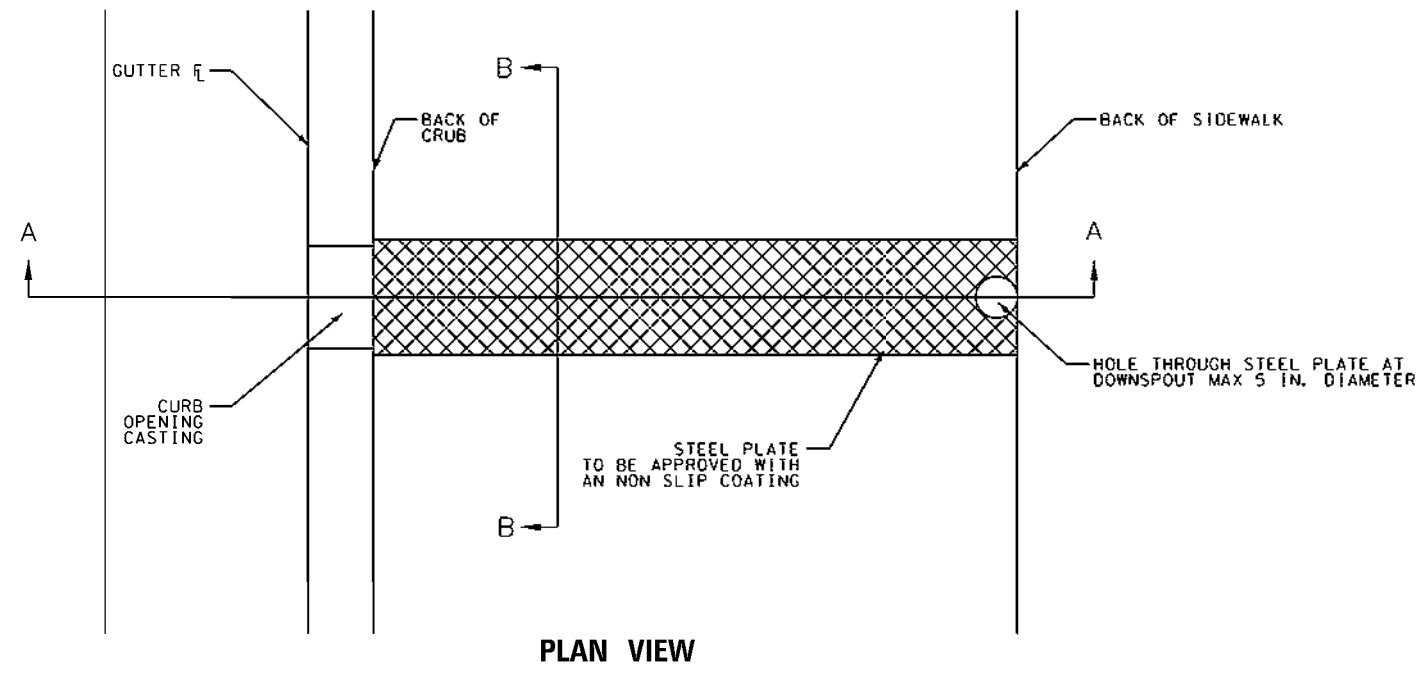
CONCRETE COLLAR TABLE OF DIMENSIONS												
LOCATION	PIPE SIZE & TYPE (SLOPE)		ELEVATION DATA		DIMENSIONS			LENGTH OF BARS			QUANTITIES	
	PLAN STRUCTURE NUMBER	INFLUENT (IN.)	EFFLUENT (IN.)	CURB & GUTTER FLOWLINE ELEVATION (FT.)	PIPE INVERT ELEVATION	A (FT. - IN.)	B (FT. - IN.)	C (FT. - IN.)	D (#4) 12 REQUIRED (EACH COLLAR) (FT. - IN.)	E (#4) 4 REQUIRED (EACH COLLAR) (FT. - IN.)	F (#4) 8 REQUIRED (EACH COLLAR) (FT. - IN.)	CONCRETE (CU YD)
2	12" RCP (0.60%)	12" WMO (7.25%)	426.10±	424.27±	2' - 8"	2' - 0"	1' - 0"	2' - 0"	5' - 4"	0' - 9"	0.30	30
8	12" RCP (1.02%)	12" RCP (6.60%)	426.18±	424.29±	2' - 8"	2' - 1"	1' - 0"	2' - 0"	5' - 4"	0' - 9"	0.30	30

**DRAINAGE STRUCTURE NO.1 AND NO.2 DETAILS**

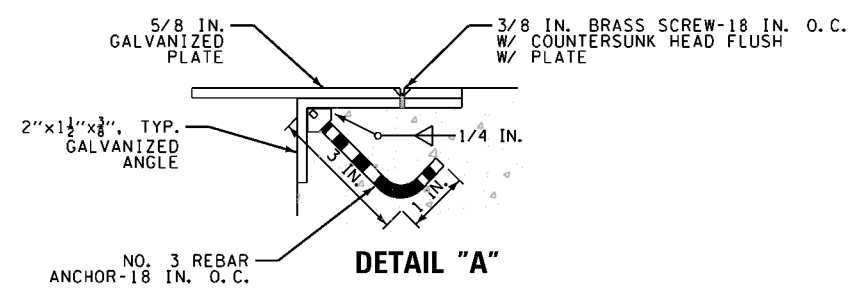
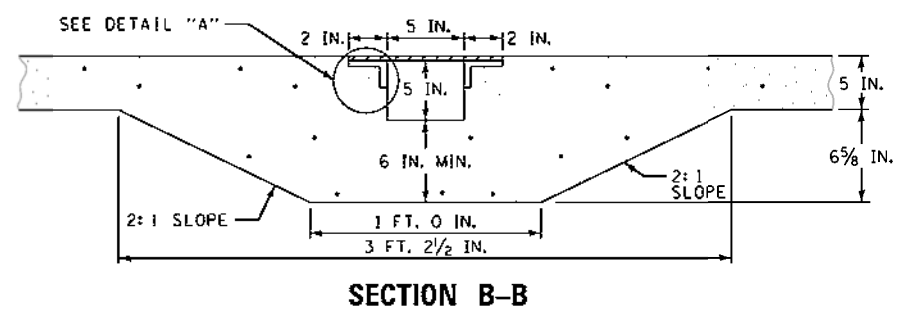
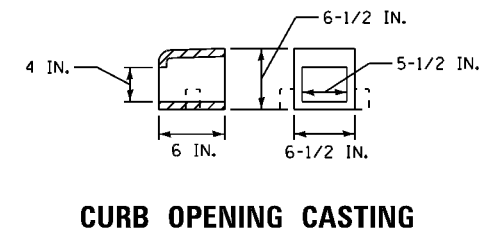
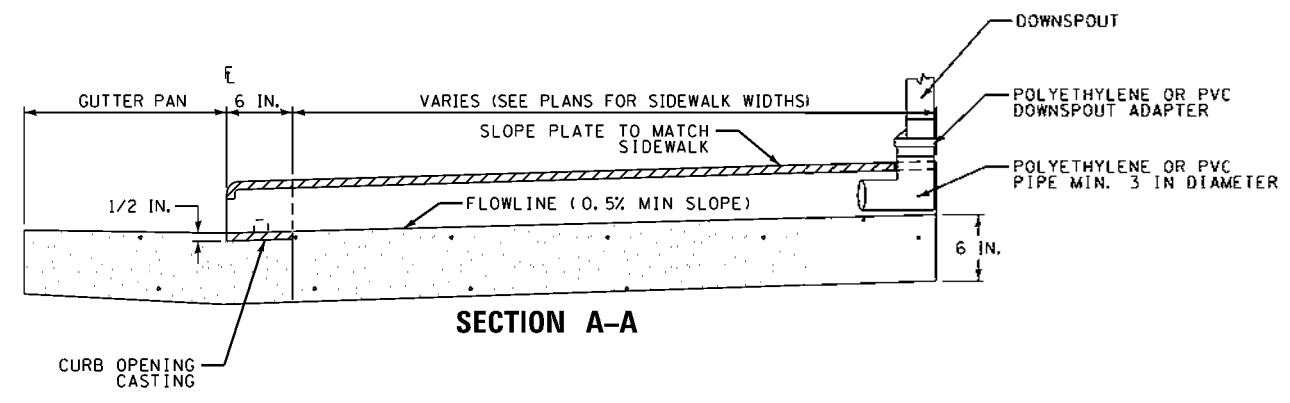


DRAINAGE STRUCTURE SPECIAL SCHEDULE												
PLAN STRUCTURE NUMBER	SPECIAL DETAIL NUMBER	LOCATION		DRAINAGE CASTING			DRAINAGE STRUCTURE			PIPE CONTROLLING DESIGN		
		STATION	OFFSET	TYPE	FLOWLINE ELEVATION A (FEET)	APPROX. HEIGHT AT FLOWLINE B (INCHES)	TYPE	INVERT ELEVATION (FEET)	STANDARD FLAT SLAB TOP THICKNESS (INCHES)	TYPE	SIZE (INCHES)	MATERIAL
19	1	STA. 625+53.59	16.72' LT.	TYPE 3 F&G	426.08	8.28	INLET TYPE B	423.45	6.00	EFFLUENT	18.00	PVC
20	2	STA. 625+52.38	18.49' RT.	TYPE 24 F&G	426.00	9.00	MH TYPE A, 5' DIA.	423.41	8.00	EFFLUENT	18.00	PVC
23	1	STA. 625+89.93	16.01' LT.	TYPE 3 F&G	426.17	8.28	INLET TYPE B	423.41	6.00	EFFLUENT	18.00	PVC
24	2	STA. 625+87.58	19.38' RT.	TYPE 24 F&G	426.16	9.00	MH TYPE A, 5' DIA.	423.37	8.00	EFFLUENT	18.00	PVC





- NOTES:
1. DOWNSPOUT, ADAPTER, AND CURB OPENING CASTING CONFIGURATION TO BE APPROVED BY ENGINEER.
  2. PLATE SHALL BE FLUSH WITH SIDEWALK IN COMPLIANCE WITH ADA REQUIREMENTS.
  3. NON SLIP COATING AND PATTERN ON PLATE SHALL MEET ADA REQUIREMENTS.
  4. ALTERNATIVE MATERIALS, PRE-FABRICATED FLUMES/TRENCHES, OR ALTERNATIVE DESIGNS MAY BE ALLOWED. THE CONTRACTOR SHALL SUBMIT ANY ALTERNATIVES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SIDEWALK WORK BEGINNING.
  5. ALL WORK TO COMPLETE THE DOWNSPOUT CONNECTION FROM THE EXISTING DOWNSPOUT TO THE GUTTER INCLUDING BUT NOT LIMITED TO CONCRETE TRENCH, SIDEWALK PLATE, CURB OPENING, DOWNSPOUT ADAPTORS, PIPE, AND HARDWARE SHALL BE INCLUDED IN THE UNIT COST FOR "DOWNSPOUT CONNECTION".
  6. "PORTLAND CEMENT CONCERTE SIDEWALK 5 INCH" AND "PORTLAND CEMENT CONCERTE SIDEWALK 5 INCH, SPECIAL" WILL BE MEASURED THROUGH THE DOWNSPOUT CONNECTION AREA WITH NO DEDUCTION MADE FOR THE TRENCH AREA. ANY ADDITIONAL CONCRETE THICKNESS REQUIRED SHALL BE INCLUDED IN THE UNIT COST FOR "DOWNSPOUT CONNECTION".



**DOWNSPOUT CONNECTION DETAILS**

• DRAWINGS ARE NOT TO SCALE

<b>EFK•Moen</b> Civil Engineering Design	USER NAME = jbordeen	DESIGNED - MYS	REVISED -	<b>City of Mascoutah, Illinois</b>	<b>MISCELLANEOUS DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.000000' / in.	DRAWN - SJF	REVISED -					9377	14-00025-00-PV	ST. CLAIR	61	33
	PLOT DATE = 4/27/2020	CHECKED - SLD	DATE - 3/30/2020		REVISED -	SCALE: N/A	SHEET 7 OF 7 SHEETS	ILLINOIS FED. AID PROJECT				

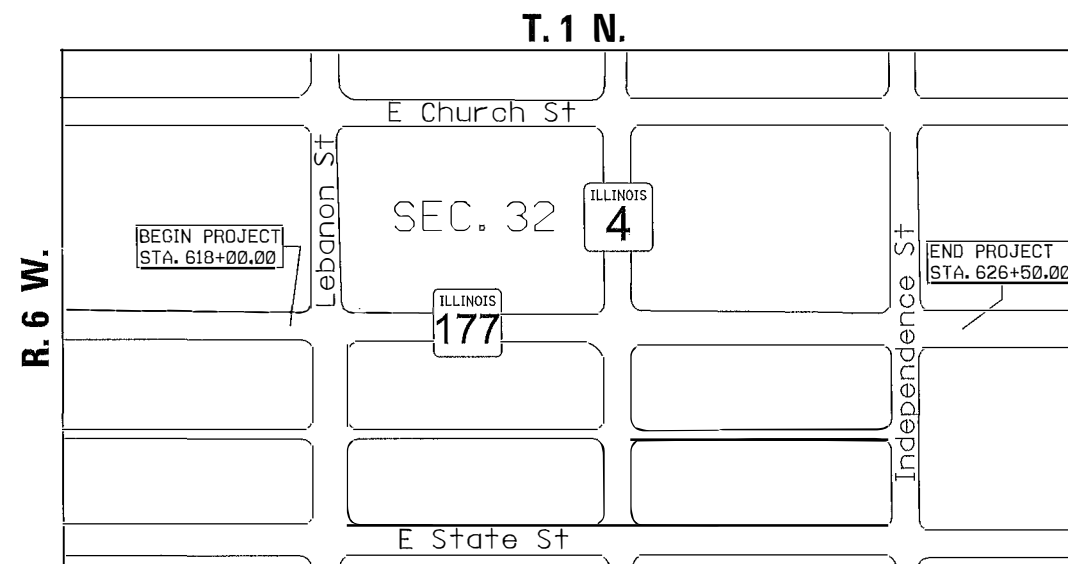
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLAT OF HIGHWAYS

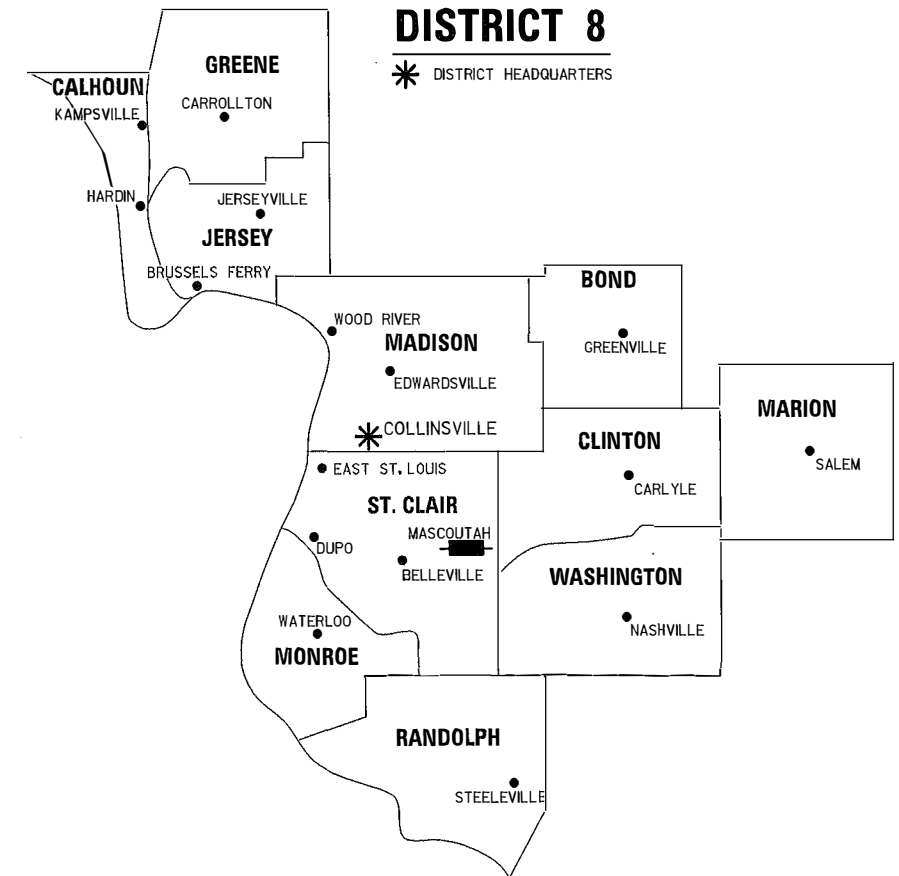
FAU ROUTE 9377 /IL ROUTE 177 (MAIN STREET)  
JOB NO. R-98-016-17  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY  
SECTION 14-00025-00-PV

SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
1	N/A	COVER SHEET
2	N/A	LEGEND AND GENERAL NOTES
3	617+00 TO 620+50	PLAT OF HIGHWAYS
4	617+00 TO 620+50	PLAT OF HIGHWAYS
5	620+50 TO 624+00	PLAT OF HIGHWAYS
6	620+50 TO 624+00	PLAT OF HIGHWAYS
7	624+00 TO 626+50	PLAT OF HIGHWAYS
8	N/A	TIE SHEET

SPACE RESERVED FOR RECORDING OFFICER



PROJECT LENGTH = 850 LIN. FT. = 0.16 MILE



LOCATION OF SECTION INDICATED THUS:

**PREPARED BY:**

**EFK Moen, LLC**  
Civil Engineering Design  
303 FOUNTAINS PKWY, SUITE 240  
FAIRVIEW HEIGHTS, IL 62208  
618-206-4250  
IL. LICENSE NO. 184-002293

STATE OF ILLINOIS )  
                          ) SS  
COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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 \_\_\_\_\_

RANDALL E. BRICKEY, PLS NO. 3441  
LICENSE EXPIRATION DATE: 11/30/2020

SHEET 1 OF 8

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	34
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

**LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS**

TRAFFIC SIGNAL GULFBOX	○	DRAINAGE FLOW LINE	
TRAFFIC SIGNAL HANDHOLE	⊠	RIP RAP	
TRAFFIC SIGNAL SIGNAL POST	○	HEADWALL	
TRAFFIC SIGNAL STEEL MAST ARM	—	CULVERT END SECTION	
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	⊙	DRAINAGE MANHOLE	
TRAFFIC SIGNAL WOODEN POLE	⊙	INLET	
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	⊙	ROADWAY DITCH FLOW	
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	⊙	VEGETATION LINE	
TRAFFIC SIGNAL JUNCTION BOX	⊠	STUMP	
TRAFFIC SIGNAL CONTROLLER	⊠	SHRUB	
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	⊠	EVERGREEN TREE	
RAILROAD CANTILEVER MAST ARM		DECIDUOUS TREE	
RAILROAD CROSSBUCK		WOODS/BUSH LINE	
RAILROAD TRACK		TRAFFIC SIGN	
RAILROAD TRACK (ABANDONED)		GUARDRAIL POST	
RAILROAD CROSSGATE		GUARDRAIL	
RAILROAD CONTROL BOX		FIELD LINE	
RAILROAD FLASHING SIGNAL		LEVEE/NOISE BARRIER	
UTILITY TELEPHONE SPLICE BOX		FENCE	
UTILITY POWER POLE	⊙	MAIL BOX	
UTILITY TRAFFIC SIGNAL	⊙	ADVERTISING SIGN	
UTILITY LIGHT POLE	⊙	MARSH	
UTILITY FIRE HYDRANT	⊙	LIGHTING HANDHOLE	
UTILITY MANHOLE	⊙	LIGHTING POWER POLE	
UTILITY TELEPHONE POLE	⊙	LIGHTING JUNCTION BOX	
UTILITY GUY ANCHOR	⊙	LIGHTING HEAVYDUTY HANDHOLE	
UTILITY PIPELINE WARNING SIGN	⊙	LIGHTING CONTROLLER	
UTILITY HANDHOLE	⊙	LIGHTING PULL POINT	
UTILITY SPLICE BOX	⊙	HIGHWAY LIGHTING ELECTRICAL GROUND	
UTILITY JUNCTION BOX	⊙	HIGHWAY LIGHTING SINGLE UNIT	
UTILITY HEAVY DUTY HANDHOLE	⊙	HIGHWAY LIGHTING DOUBLE UNIT	
UTILITY DOUBLE HANDHOLE	⊙	EXISTING CONCRETE BARRIER	
UTILITY CONTROLLER	⊙	EXISTING CREEK OR DITCH	
UTILITY WATER METER	⊙	EXISTING EDGE OF PAVEMENT	

**RIGHT-OF-WAY LEGEND**

	SECTION CORNERS		QUARTER SECTION CORNERS
---	EXISTING CENTERLINE	---	EXISTING RIGHT-OF-WAY LINE
---	FORMER RIGHT-OF-WAY LINE	---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE	---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE	---	EXISTING ACCESS CONTROL LINE
---	EXISTING ACCESS CONTROL LINE	---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE	---	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE	---	PROPOSED CENTERLINE
---	PROPOSED RIGHT-OF-WAY LINE	---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED TEMPORARY EASEMENT LINE	---	PROPOSED PERMANENT EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE	---	SECTION LINE
---	SECTION LINE	---	QUARTER SECTION LINE
---	QUARTER SECTION LINE	---	QUARTER QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE	---	PROPERTY LINE (TITLE)
---	PROPERTY LINE (TITLE)	---	RECORDED PLAT/DEED LINE
---	RECORDED PLAT/DEED LINE	---	APPEARANT PROPERTY LINE
---	APPEARANT PROPERTY LINE	---	SAME OWNERSHIP
121.45'	MEASURED DIMENSION	---	MEASURED DIMENSION
(121.45')	RECORDED DIMENSION	---	FOUND STONE
□	FOUND STONE	○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED	●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED	⊙	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
⊙	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)	△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED	+	FOUND CUT CROSS
+	FOUND CUT CROSS	+	SET CUT CROSS

■ STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

■<sup>B</sup> STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS IN CULTIVATED AREA, A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

**TOTAL HOLDING AREA SOURCE TABLE**

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

**BASIS OF COORDINATE & BEARING STATEMENT**

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS USING AN EPOCH MODEL 50 ROVER (S/N45224833036) AND A CELLULAR EQUIPPED SPECTRA PRECISION RANGER AND BASED ON THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING REFERENCE STATIONS, WHICH UTILIZES THE NAD83 (CORS 96) EPOCH 2002.00 GPS NETWORK. ILLINOIS STATE PLANE WEST ZONE GRID COORDINATES FOR THE CONTROL POINTS WERE CALCULATED.

THE AVERAGE COMBINED PROJECT GRID FACTOR IS 0.9999386 AS CALCULATED BY SPECTRA PRECISION SURVEY PRO 5.0 SOFTWARE.

PROJECT COORDINATES ARE MODIFIED ILLINOIS STATE PLANE COORDINATES AND WERE ESTABLISHED BY APPLYING THE INVERSE OF THE PROJECT GRID FACTOR (1.0000614) ABOUT (0,0). THE COORDINATES WERE CONVERTED TO FEET BY MULTIPLYING THE METRIC VALUES BY 3.2808333 (39.37 INCHES PER METER/12 INCHES PER FOOT).

**LEGEND FOR ABBREVIATIONS**

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m	METER
m <sup>2</sup>	SQUARE METERS
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
PL	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

**PROPOSED PARCEL NUMBER LEGEND**

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001Ded	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

**CURVE ABBREVIATIONS**

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CB	CHORD BEARING
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

**TOPOGRAPHIC STATEMENT**

THE TOPOGRAPHY SHOWN HEREON WAS SURVEYED BY EFK MOEN DURING THE MONTH OF OCTOBER 2014. THE SURVEYOR PHYSICALLY LOCATED IN THE FIELD THE FOLLOWING ITEMS ON 10/14 THRU 10/20/2014:

- BUILDINGS, CURBS, PAVEMENT, DRIVEWAYS, FENCES, WALKS, SIGNS, ABOVE GROUND UTILITIES, MARKED UNDERGROUND UTILITIES, OVERHANGS, STORM AND SANITARY SEWERS, LANDSCAPING, WALLS, STEPS AND PORCHES.

**PREPARED BY:**

**EFK Moen, LLC**  
 Civil Engineering Design  
 303 FOUNTAINS PKWY, SUITE 240  
 FAIRVIEW HEIGHTS, IL 62208  
 618-206-4250  
 IL. LICENSE NO. 184-002293

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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 \_\_\_\_\_

RANDALL E. BRICKEY, PLS NO. 3441  
 LICENSE EXPIRATION DATE: 11/30/2020

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAU ROUTE 9377 (IL 177)  
 SECTION 14-00025-00-PV  
 ST. CLAIR COUNTY  
 JOB NO. R-98-016-17

SHEET 2 OF 8

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	35
				CONTRACT NO.

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

PART OF THE NW 14 OF SECTION 32, T. 1 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

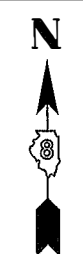
SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

IL ROUTE 177 COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
618+00.00	0.00'	664251.7365	2403050.8417	BEGIN PROJECT
618+67.19	0.00'	664251.8711	2403118.0296	P.O.T. MAINLINE
618+69.31	0.00'	664251.8754	2403120.1548	P.O.T. MAINLINE
618+91.49	32.52' LT	664284.4380	2403142.2710	CONTROL POINT #1
621+98.12	43.69' RT	664208.8410	2403449.0470	CONTROL POINT #2
622+20.00	0.00'	664252.5780	2403470.8409	P.O.T. MAINLINE
622+72.86	0.00'	664252.6839	2403523.6964	P.I. MAINLINE
625+44.11	0.00'	664251.6033	2403794.9470	P.I. MAINLINE
625+71.13	0.00'	664252.3959	2403821.9544	P.O.T. MAINLINE
625+89.27	0.00'	664252.9281	2403840.0906	P.I. MAINLINE
627+00.00	0.00'	664252.9377	2403950.8192	P.O.T. MAINLINE

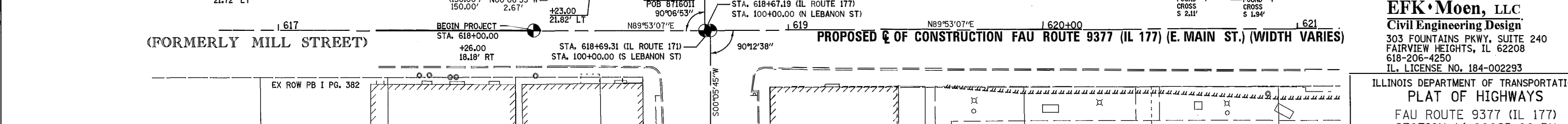
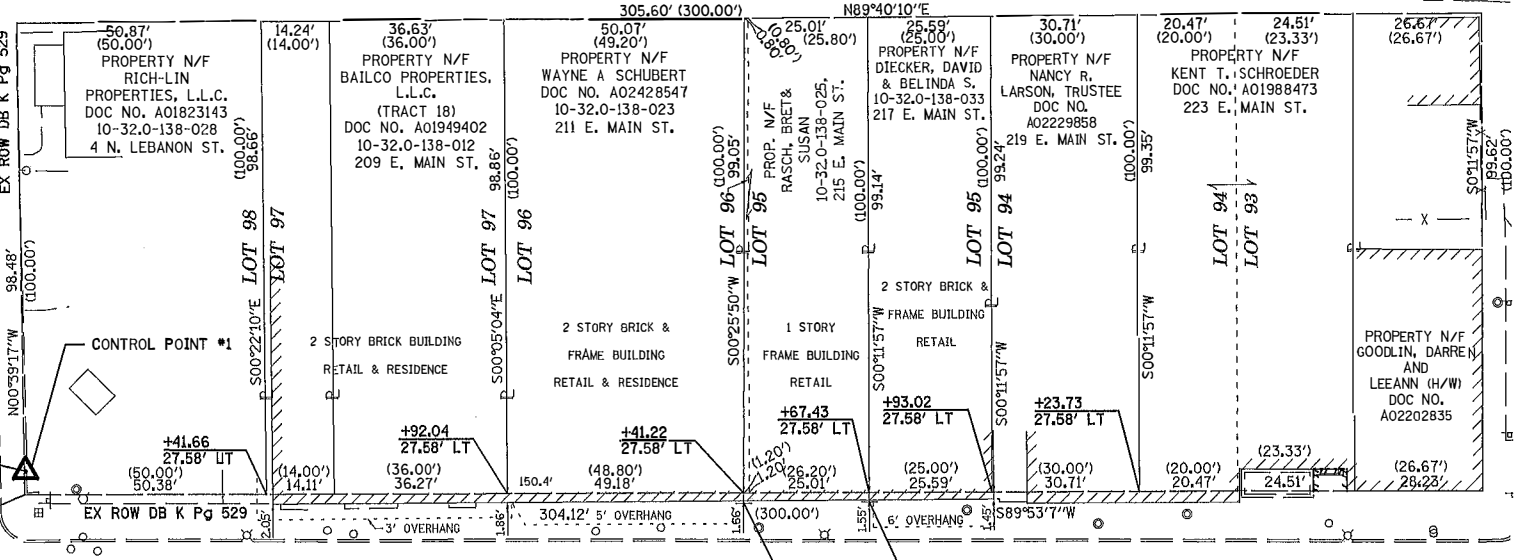
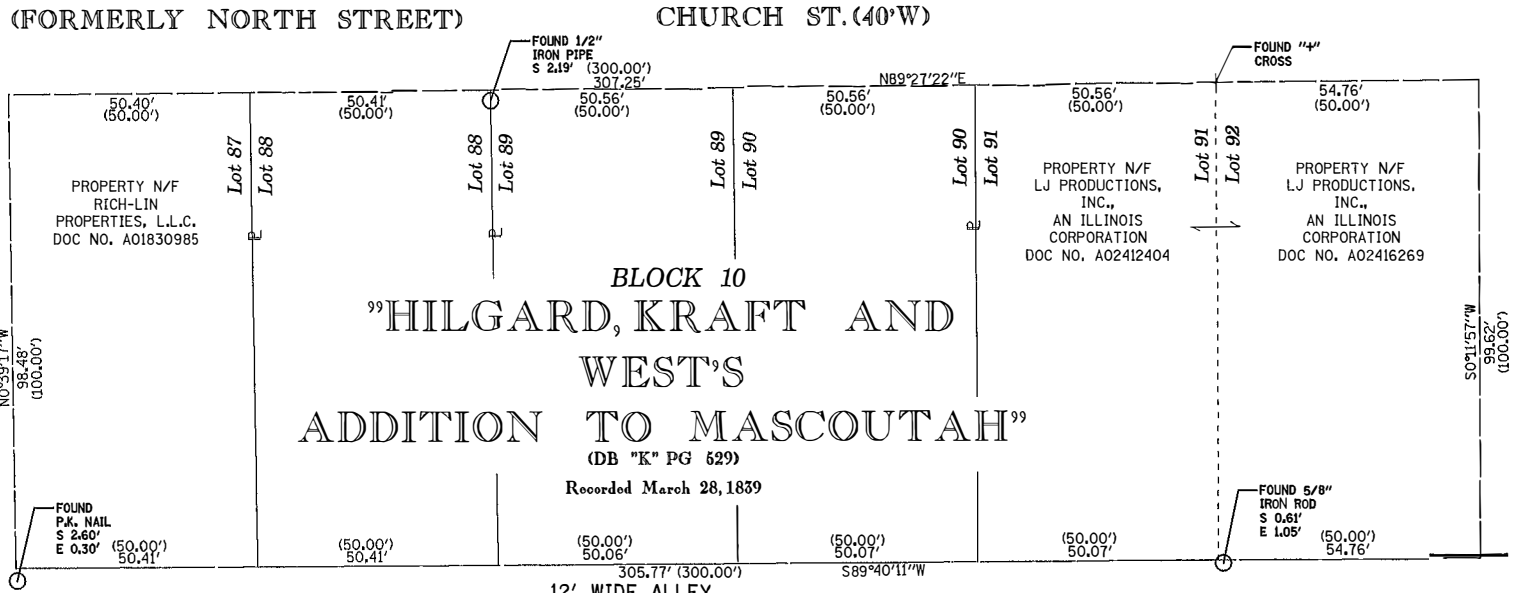
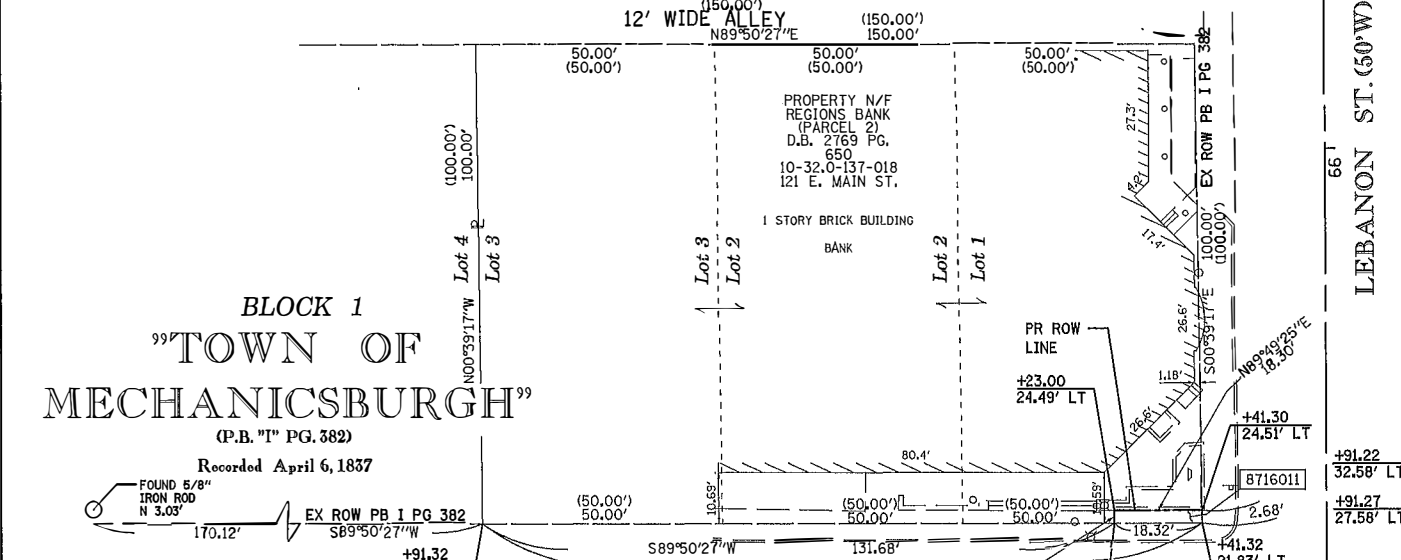
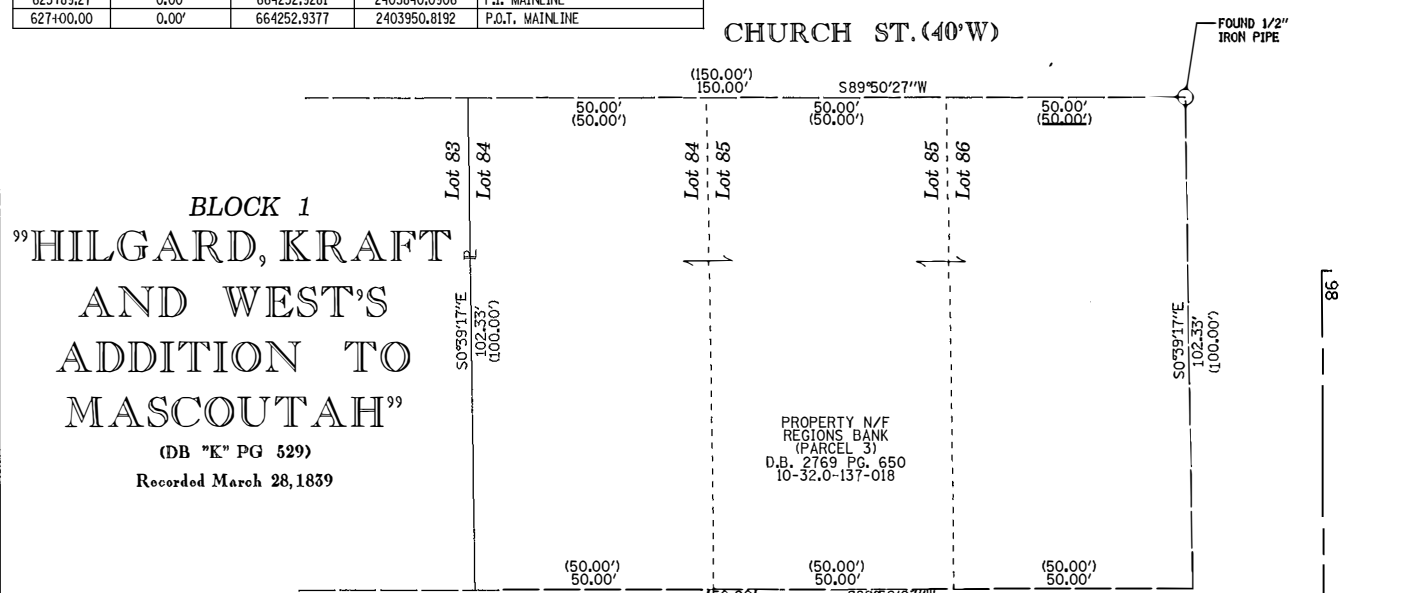
LEBANON STREET NORTH COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
98+00.00	0.00'	664451.8711	2403118.0296	P.O.T. MAINLINE
100+00.00	0.00'	664251.8711	2403118.0296	P.O.T. MAINLINE

PROPOSED ROW COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
618+23.00	21.82' LT	664273.6025	2403073.7979	
618+23.00	24.49' LT	664276.2743	2403073.7926	
618+41.30	24.51' LT	664276.3306	2403092.0908	
618+41.32	21.83' LT	664273.6533	2403092.1214	

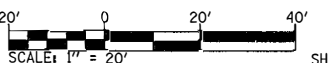


SPACE RESERVED FOR RECORDING OFFICER



**EFK Moen, LLC**  
 Civil Engineering Design  
 303 FOUNTAINS PKWY, SUITE 240  
 FAIRVIEW HEIGHTS, IL 62208  
 618-206-4250  
 IL. LICENSE NO. 184-002293

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAU ROUTE 9377 (IL 177)  
 SECTION 14-00025-00-PV  
 ST. CLAIR COUNTY  
 JOB NO. R-98-016-17  
 STATION 616+76.82 TO STATION 621+00



STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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: \_\_\_\_\_  
 RANDALL E. BRICKEY, PLS NO. 3441  
 LICENSE EXPIRATION DATE: 11/30/2020

\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			ACRES	SQ FT		PE = PERMANENT ACRES	TE = TEMPORARY SQ FT		
8716011	REGIONS BANK D.B. 2769 PG. 650 179380BMT	0.3443	0.0011	49	0.3432	N/A	N/A	N/A	10-32.0-137-018

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	10-20-2014	ROW STAKING:	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	36

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

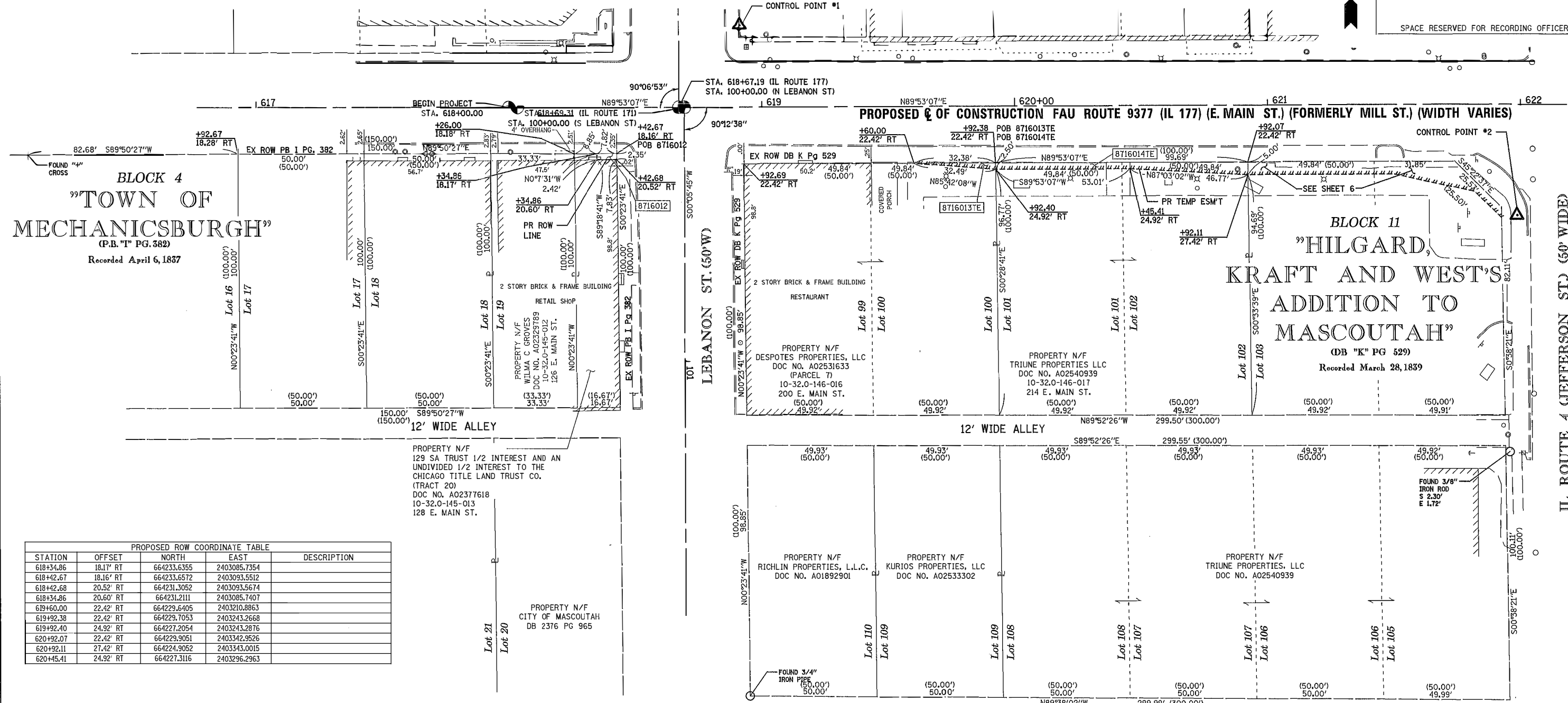
PART OF THE NW 1/4 OF SECTION 32, T. 1 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

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

STATION	OFFSET	NORTH	EAST	DESCRIPTION
I00+00.00	0.00'	664251.8754	2403120.1548	P.O.T. MAINLINE
I02+00.00	0.00'	664051.8757	2403119.8201	P.O.T. MAINLINE



SPACE RESERVED FOR RECORDING OFFICER



STATION	OFFSET	NORTH	EAST	DESCRIPTION
618+34.86	18.17' RT	664233.6355	2403085.7354	
618+42.67	18.16' RT	664233.6572	2403093.5512	
618+42.68	20.52' RT	664231.3052	2403093.5674	
618+34.86	20.60' RT	664231.2111	2403085.7407	
619+60.00	22.42' RT	664229.6405	2403210.8863	
619+92.38	22.42' RT	664229.7053	2403243.2668	
619+92.40	24.92' RT	664227.2054	2403243.2876	
620+92.07	22.42' RT	664229.9051	2403342.9526	
620+92.11	27.42' RT	664224.9052	2403343.0015	
620+45.41	24.92' RT	664227.3116	2403296.2963	

\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION ACRES	REMAINDER SO FT	REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
						PE = PERMANENT ACRES	TE = TEMPORARY SO FT			
8716012	129 SA TRUST 1/2 INTEREST AND AN UNDIVIDED 1/2 INTEREST TO CHICAGO TITLE LAND TRUST CO. DOC NO. A02377618 179381BMT	0.0383	0.0004	19	0.0379	N/A	N/A	N/A	10-32.0-145-013	
8716013	DESPTOTES PROPERTIES, LLC DOC NO. A02531633	0.2269	N/A	N/A	0.2269	TE=0.0009	TE=40	SIDEWALK CONSTRUCTION GRADING	10-32.0-146-016	
8716014	TRIUNE PROPERTIES LLC DOC NO. A02540939	0.2278	N/A	N/A	0.2278	TE=0.0071	TE=308	SIDEWALK CONSTRUCTION GRADING	10-32.0-146-017	

STATE OF ILLINOIS )  
 ) SS  
COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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: \_\_\_\_\_  
RANDALL E. BRICKEY, PLS NO. 3441  
LICENSE EXPIRATION DATE: 11/30/2020

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PLAT OF HIGHWAYS  
FAU ROUTE 9377 (IL 177)  
SECTION 14-00025-00-PV  
ST. CLAIR COUNTY  
JOB NO. R-98-016-17  
STATION 616+76.82 TO STATION 622+00

SCALE: 1" = 20'

SHEET 4 OF 8

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	37

COMPLETION DATE OF FIELD WORK PERFORMED  
LAND SURVEY: 10-20-2014 ROW STAKING:

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

**EFK Moen, LLC**  
Civil Engineering Design  
303 FOUNTAINS PKWY, SUITE 240  
FAIRVIEW HEIGHTS, IL 62208  
618-206-4250  
IL. LICENSE NO. 184-002293

PART OF THE NW 14 OF SECTION 32, T. 1 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

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

JEFFERSON STREET COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
98+00.00	0.00'	664452.5776	2403470.4401	P.O.T. MAINLINE
100+00.00	0.00'	664252.5780	2403470.8409	P.O.T. MAINLINE
102+00.00	0.00'	664052.5784	2403471.2416	P.O.T. MAINLINE

CHURCH ST.  
(FORMERLY NORTH ST.) (40' WIDE)

CHURCH ST. (FORMERLY NORTH ST.) (40' WIDE)

BLOCK 10  
HILGARD, KRAFT AND  
WEST'S ADDITION  
TO MASCOUTAH

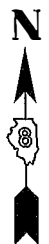
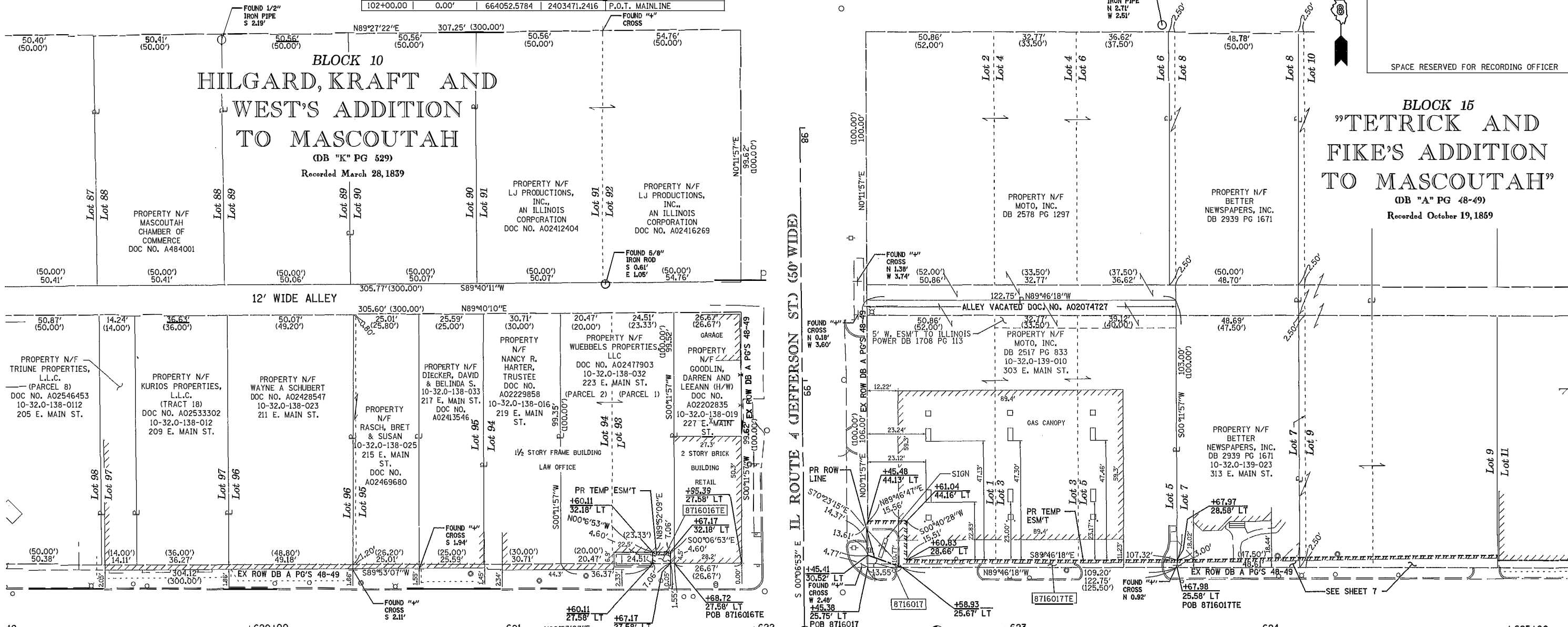
(DB "K" PG 529)

Recorded March 28, 1859

BLOCK 15  
"TETRICK AND  
FIKE'S ADDITION  
TO MASCOUTAH"

(DB "A" PG 48-49)

Recorded October 19, 1859



SPACE RESERVED FOR RECORDING OFFICER

PROPOSED ROW COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
621+60.11	27.58' LT	664280.0413	2403410.8936	
621+60.11	32.18' LT	664284.6387	2403410.8844	
621+67.17	32.18' LT	664284.6549	2403417.9477	
621+67.17	27.58' LT	664280.0555	2403417.9569	
622+45.38	25.75' LT	664278.3771	2403496.1703	
622+45.41	30.52' LT	664283.1462	2403496.1869	
622+58.93	25.67' LT	664278.3231	2403509.7223	
622+45.48	44.13' LT	664296.7601	2403496.2342	
622+61.04	44.16' LT	664296.8199	2403511.7927	
622+60.83	28.66' LT	664281.3156	2403511.6102	
623+67.97	28.58' LT	664280.8881	2403618.9282	
623+67.98	25.58' LT	664277.8881	2403618.9178	

\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

CONTROL POINT #2

STATE OF ILLINOIS )  
 ) SS  
COUNTY OF ST. CLAIR )

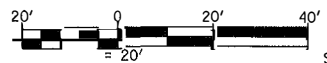
I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT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

DATED: \_\_\_\_\_

RANDALL E. BRICKEY, PLS NO. 3441  
LICENSE EXPIRATION DATE: 11/30/2020

**EFK Moen, LLC**  
Civil Engineering Design  
303 FOUNTAINS PKWY, SUITE 240  
FAIRVIEW HEIGHTS, IL 62208  
618-206-4250  
IL. LICENSE NO. 184-002295

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PLAT OF HIGHWAYS  
FAU ROUTE 9377 (IL 177)  
SECTION 14-00025-00-PV  
ST. CLAIR COUNTY  
JOB NO. R-98-016-17  
STATION 619+06 TO STATION 625+25



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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	38

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 10-20-2014	ROW STAKING:

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			ACRES	SO FT		PE = PERMANENT	TE = TEMPORARY		
8716016	WUEBELS PROPERTIES, LLC DOC NO. A02477903	0.1027	N/A	N/A	0.1027	TE=0.0007	TE=32	10-32.0-138-032	SIDEWALK CONSTRUCTION AND GRADING
8716017	MOTO, INC. DB 2517 PG 833 179382BMT	0.2987	0.0007	32	0.2980	TE=0.0132	TE=575	10-32.0-139-010	ENTRANCE CONSTRUCTION SIDEWALK CONSTRUCTION AND GRADING

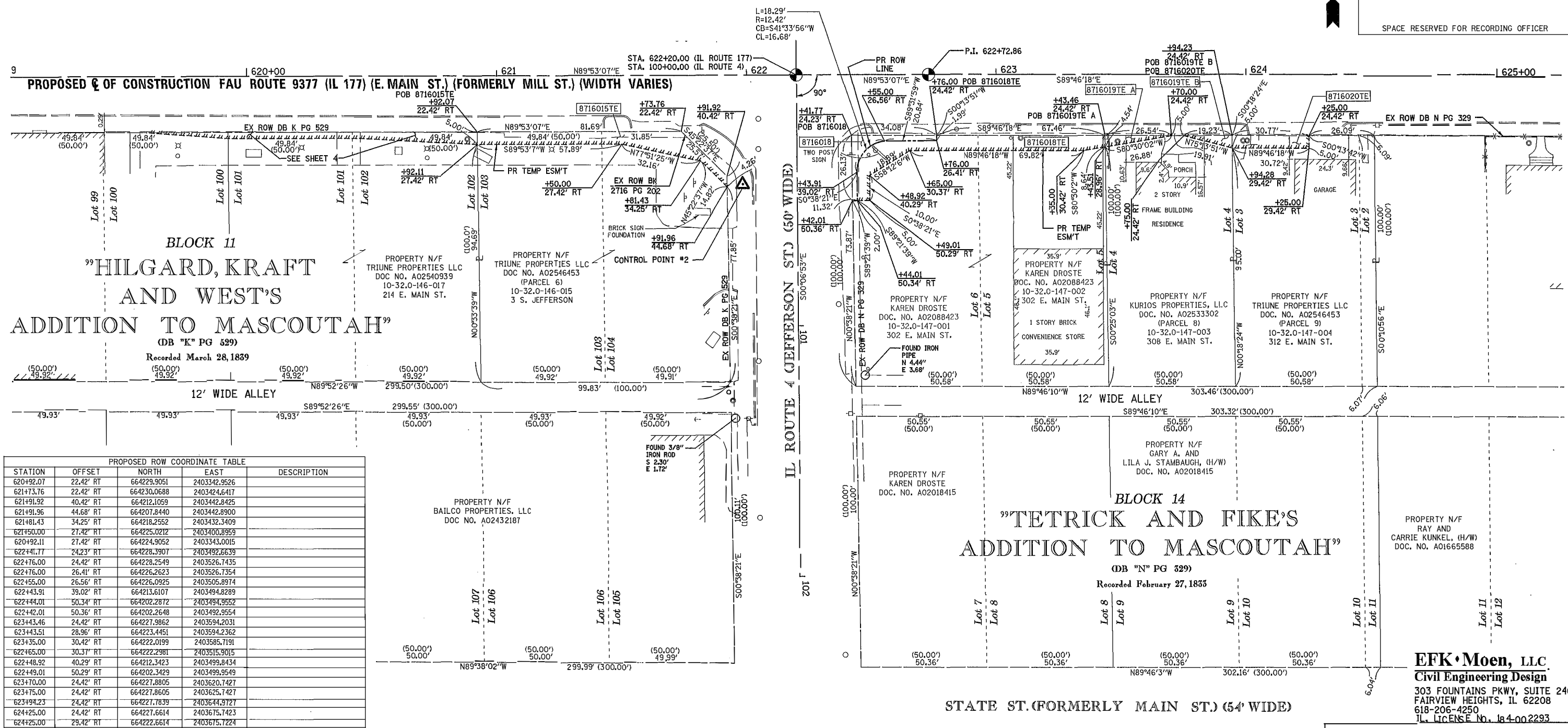
PART OF THE NW 14 OF SECTION 32, T.1 N., R.6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS

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

JEFFERSON STREET COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
98+00.00	0.00'	664452.5776	2403470.4401	P.O.T. MAINLINE
100+00.00	0.00'	664252.5780	2403470.8409	P.O.T. MAINLINE
102+00.00	0.00'	664052.5784	2403471.2416	P.O.T. MAINLINE



SPACE RESERVED FOR RECORDING OFFICER



PROPOSED ROW COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
620+92.07	22.42' RT	664229.9051	2403342.9526	
621+73.76	22.42' RT	664230.0688	2403424.6417	
621+91.92	40.42' RT	664212.1059	2403442.8425	
621+91.96	44.68' RT	664207.8440	2403442.8900	
621+81.43	34.25' RT	664218.2552	2403432.3409	
621+50.00	27.42' RT	664225.0212	2403400.8959	
620+92.11	27.42' RT	664224.9052	2403343.0015	
622+41.77	24.23' RT	664228.3907	2403492.6639	
622+76.00	24.42' RT	664228.2549	2403526.7435	
622+76.00	26.41' RT	664226.2623	2403526.7354	
622+55.00	26.56' RT	664226.0925	2403505.8974	
622+43.91	39.02' RT	664213.6107	2403494.8289	
622+44.01	50.34' RT	664202.2872	2403494.9552	
622+42.01	50.36' RT	664202.2648	2403492.9554	
623+43.46	24.42' RT	664227.9862	2403594.2031	
623+43.51	28.96' RT	664223.4451	2403594.2362	
623+35.00	30.42' RT	664222.0199	2403585.7191	
622+65.00	30.37' RT	664222.2981	2403515.9015	
622+48.92	40.29' RT	664212.3423	2403499.8434	
622+49.01	50.29' RT	664202.3429	2403499.9549	
623+70.00	24.42' RT	664227.8805	2403620.7427	
623+75.00	24.42' RT	664227.8605	2403625.7427	
623+94.23	24.42' RT	664227.7839	2403644.9727	
624+25.00	24.42' RT	664227.6614	2403675.7423	
624+25.00	29.42' RT	664222.6614	2403675.7224	
623+94.28	29.42' RT	664222.7838	2403644.9995	

**EFK Moen, LLC**  
 Civil Engineering Design  
 303 FOUNTAINS PKWY, SUITE 240  
 FAIRVIEW HEIGHTS, IL 62208  
 618-206-4250  
 IL LICENSE No. 14-002293

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PLAT OF HIGHWAYS  
 FAU ROUTE 9377 (IL 177)  
 SECTION 14-00025-00-PV  
 ST. CLAIR COUNTY  
 JOB NO. R-98-016-17  
 STATION 619+06 TO STATION 625+25

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

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	39

COMPLETION DATE OF FIELD WORK PERFORMED  
 LAND SURVEY: 10-20-2014    ROW STAKING: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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: \_\_\_\_\_

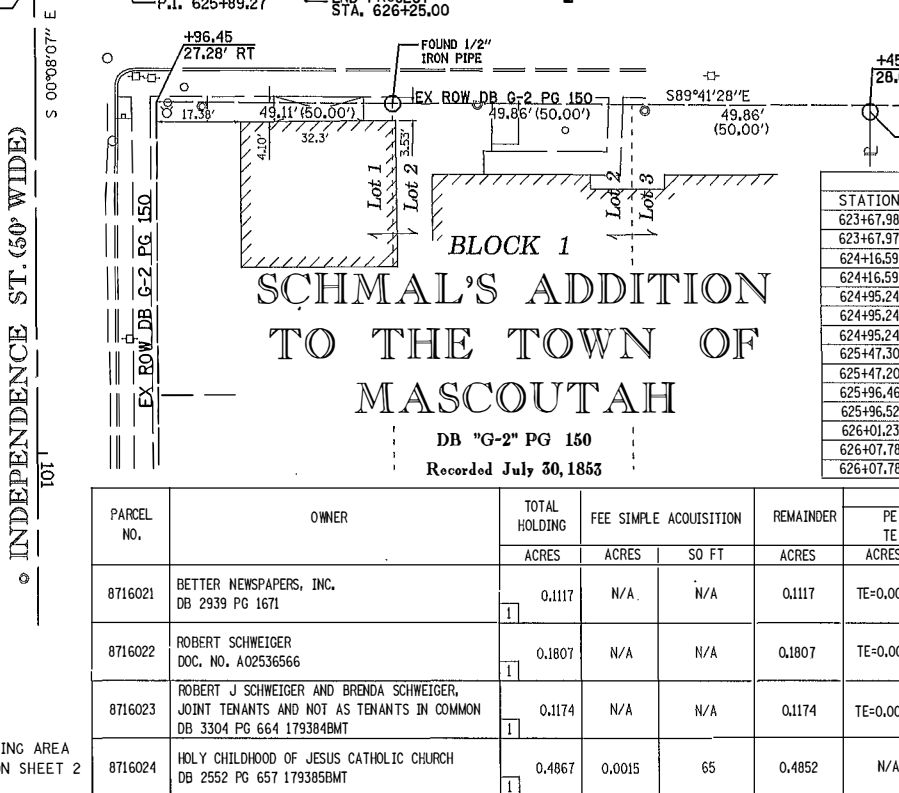
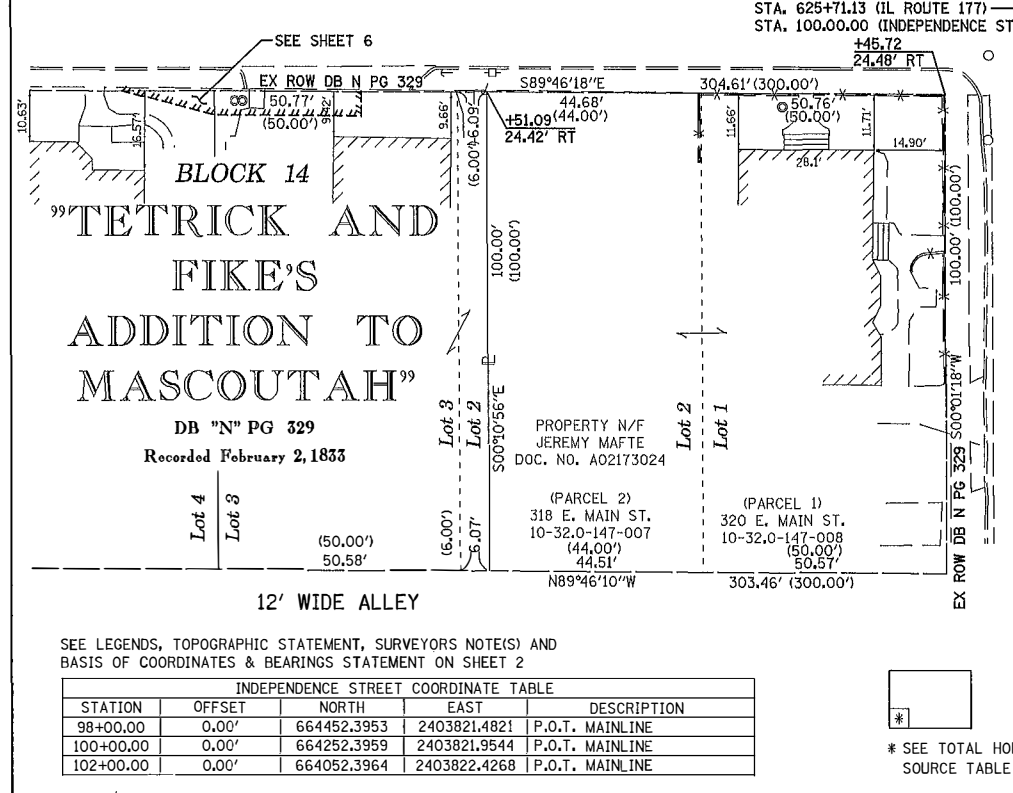
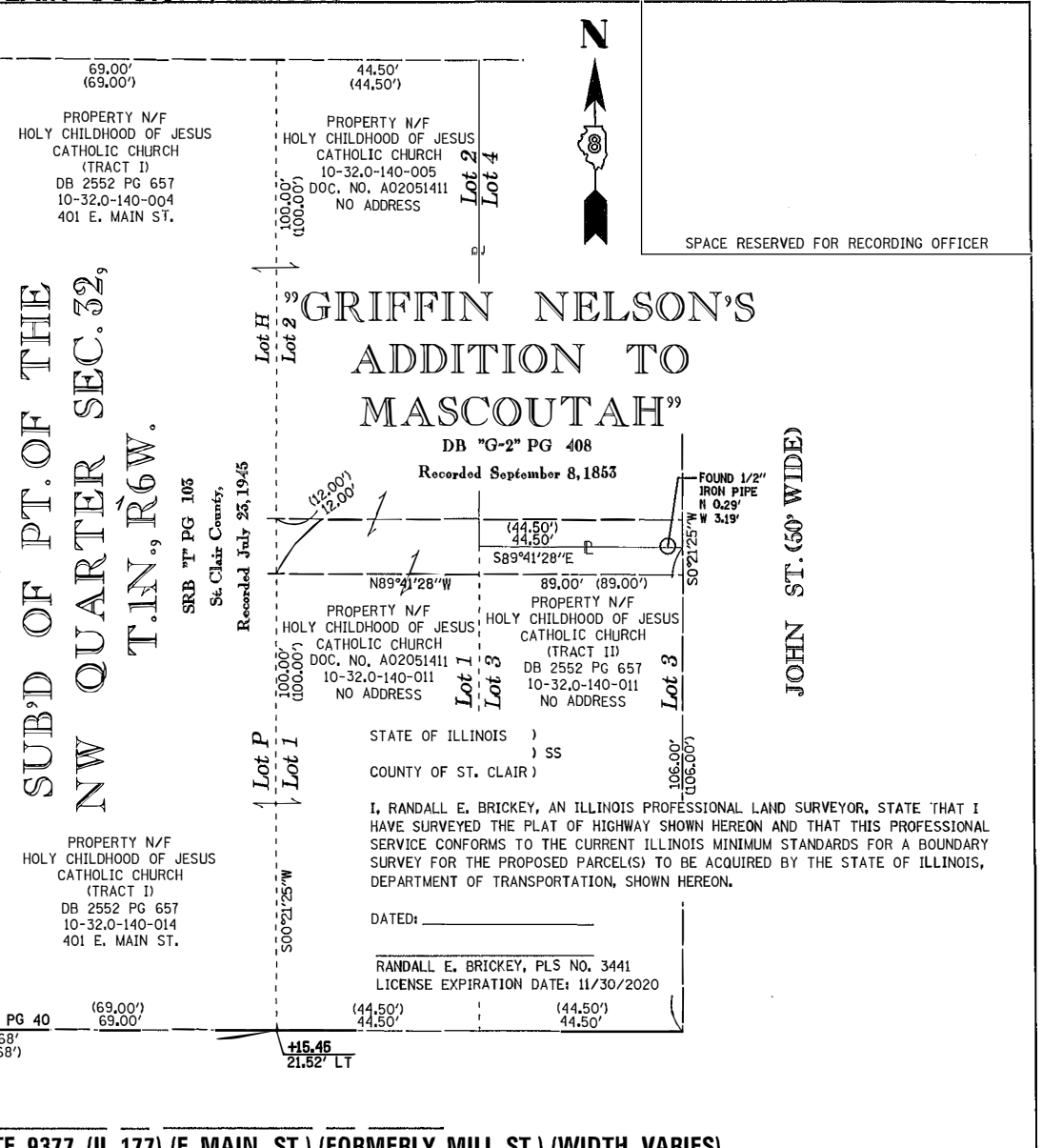
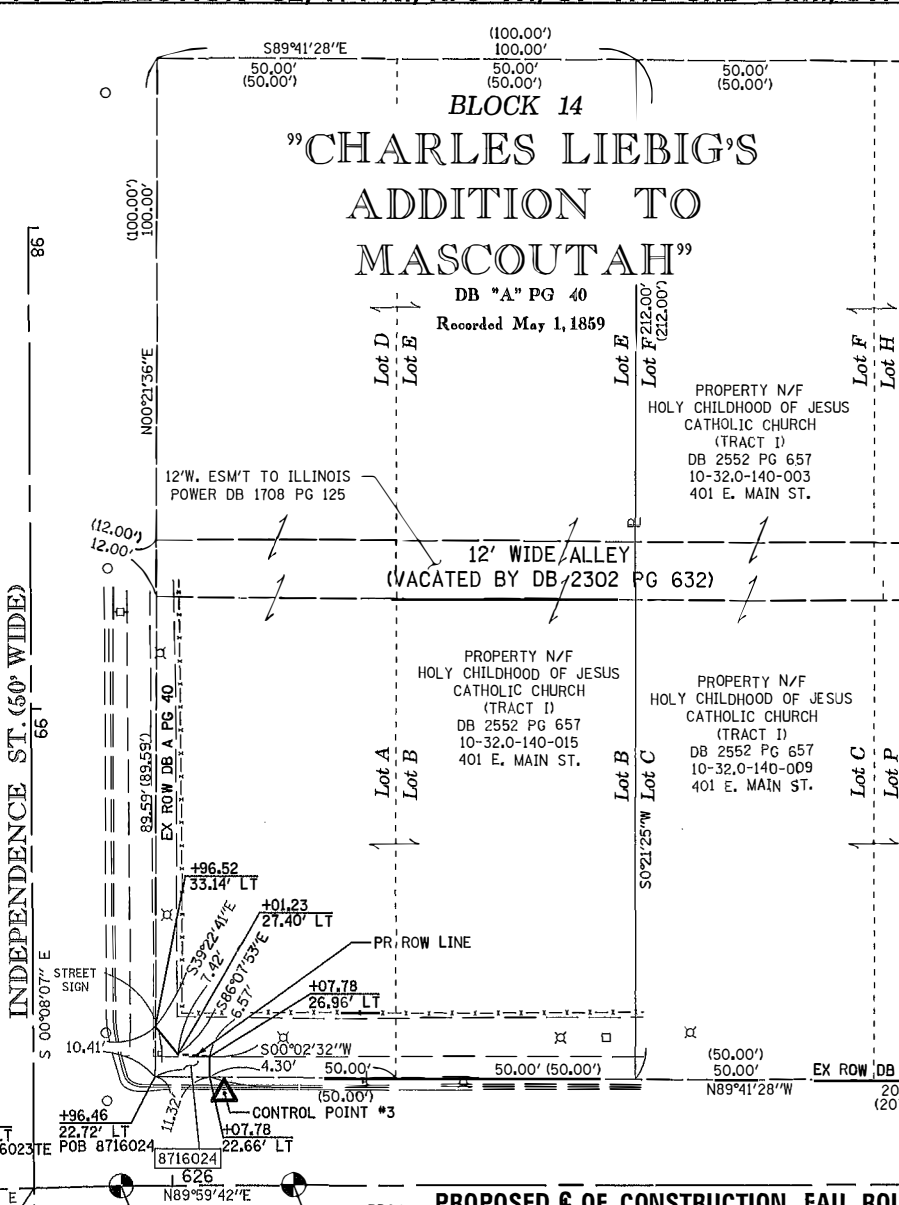
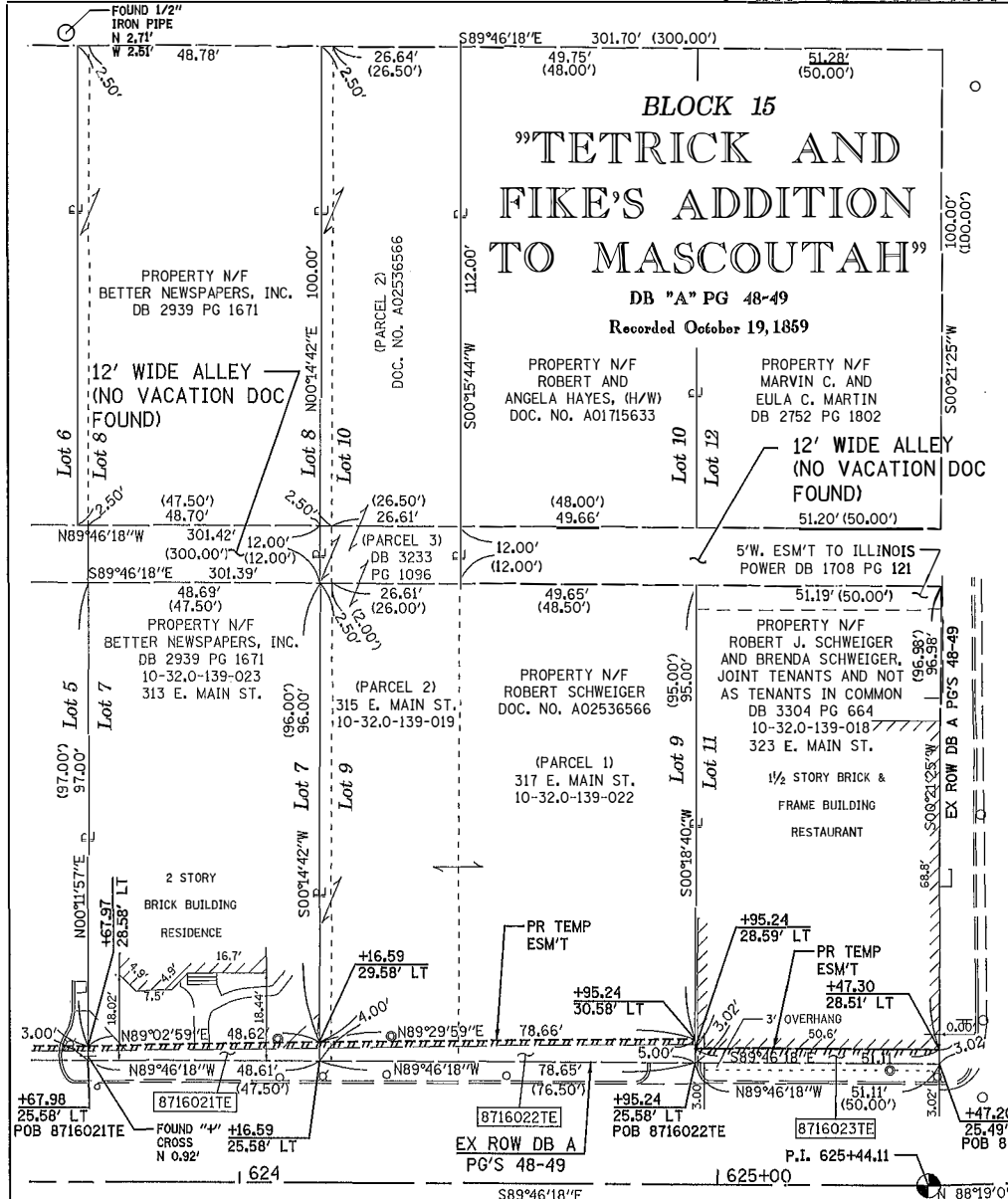
RANDALL E. BRICKEY, PLS NO. 3441  
 LICENSE EXPIRATION DATE: 11/30/2020

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION		REMAINDER	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			ACRES	SQ FT		ACRES	SQ FT		
8716015	TRIUNE PROPERTIES LLC DOC NO. A02546453	0.2288	N/A	N/A	0.2288	TE=0.0131	TE=569	10-32.0-146-015	
8716018	KAREN DROSTE DOC NO. A02088423 179383BMT	0.2326	0.0036	155	0.2290	TE=0.0154	TE=670	10-32.0-147-001 10-32.0-147-002	
8716019	KURIOS PROPERTIES, LLC DOC. NO. A02533302	0.2466	N/A	N/A	0.2466	TE-A=0.0014 TE-B=0.0011	TE-A=60 TE-B=48	10-32.0-147-003	
8716020	TRIUNE PROPERTIES LLC DOC. NO. A02546453	0.1302	N/A	N/A	0.1302	TE=0.0035	TE=154	10-32.0-147-004	

PART OF THE NW 14 OF SECTION 32, T. 1 N., R. 6 W., OF THE 3RD P.M., ST. CLAIR COUNTY, ILLINOIS



SPACE RESERVED FOR RECORDING OFFICER



**PROPOSED & OF CONSTRUCTION FAU ROUTE 9377 (IL 177) (E. MAIN ST.) (FORMERLY MILL ST.) (WIDTH VARIES)**

STA. 625+17.13 (IL ROUTE 177)  
STA. 100.00,00 (INDEPENDENCE ST.)

STATION	OFFSET	NORTH	EAST	DESCRIPTION
623+67.98	25.58' LT	664277.8881	2403618.9178	
623+67.97	28.58' LT	664280.8881	2403618.9282	
624+16.59	29.58' LT	664281.6944	2403667.5445	
624+16.59	25.58' LT	664277.6945	2403667.5274	
624+95.24	25.58' LT	664277.3812	2403746.1736	
624+95.24	30.58' LT	664282.3811	2403746.2008	
624+95.24	28.59' LT	664280.3976	2403746.1900	
625+47.30	28.51' LT	664280.1940	2403797.3020	
625+47.20	25.49' LT	664277.1776	2403797.2832	
625+96.46	22.72' LT	664275.6505	2403847.2147	
625+96.52	33.14' LT	664286.0641	2403847.3395	
626+01.23	27.40' LT	664280.3313	2403852.0448	
626+07.78	26.96' LT	664279.8880	2403858.6005	
626+07.78	22.66' LT	664275.5894	2403858.5973	

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION ACRES	REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
					PE = PERMANENT ACRES	TE = TEMPORARY ACRES		
8716021	BETTER NEWSPAPERS, INC. DB 2939 PG 1671	0.1117	N/A	0.1117	TE=0.0039	TE=170	10-32.0-139-023	
8716022	ROBERT SCHWEIGER DOC. NO. A02536566	0.1807	N/A	0.1807	TE=0.0081	TE=354	10-32.0-139-019 10-32.0-139-022	
8716023	ROBERT J SCHWEIGER AND BRENDA SCHWEIGER, JOINT TENANTS AND NOT AS TENANTS IN COMMON DB 3304 PG 664 1793848MT	0.1174	N/A	0.1174	TE=0.0035	TE=154	10-32.0-139-018	
8716024	HOLY CHILDHOOD OF JESUS CATHOLIC CHURCH DB 2552 PG 657 1793858MT	0.4867	0.0015	65	N/A	N/A	10-32.0-140-015	

**EFK Moen, LLC**  
Civil Engineering Design  
303 FOUNTAINS PKWY, SUITE 240  
FAIRVIEW HEIGHTS, IL 62208  
618-206-4250  
IL. LICENSE NO. 184-002293

COMPLETION DATE OF FIELD WORK PERFORMED  
LAND SURVEY: 10-20-2014 ROW STAKING:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAU ROUTE 9377 (IL 177)  
SECTION 14-00025-00-PV  
ST. CLAIR COUNTY  
JOB NO. R-98-016-17  
STATION 623+56 TO STATION 626+25

SCALE: 1" = 20'  
SHEET 7 OF 8

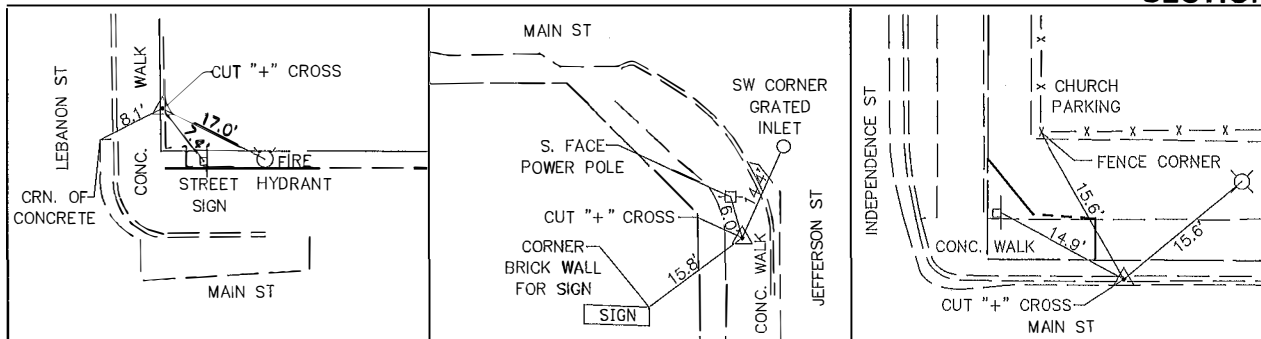
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	40

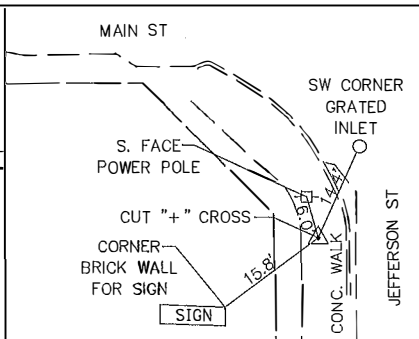
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



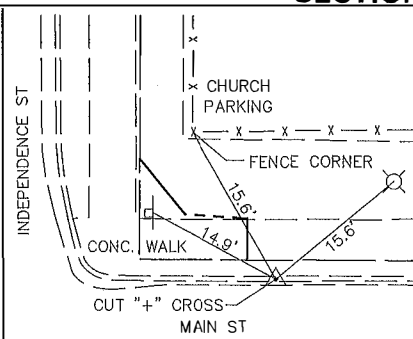
SECTION CORNER AND CENTERLINE TIE SHEET



**CONTROL POINT #1**  
 STA. 618+91.49 32.52' LT,  
 N=664284.438, E=2403142.271



**CONTROL POINT #2**  
 STA. 621+98.12 43.69' RT  
 N=664208.841 E=2403449.047



**CONTROL POINT #3**  
 STA. 626+10.64 20.76' LT  
 N=664273.688, E=2403861.455



SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF ST. CLAIR )

I, RANDALL E. BRICKEY, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE 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 \_\_\_\_\_

RANDALL E. BRICKEY, PLS NO. 3441  
 LICENSE EXPIRATION DATE: 11/30/2020

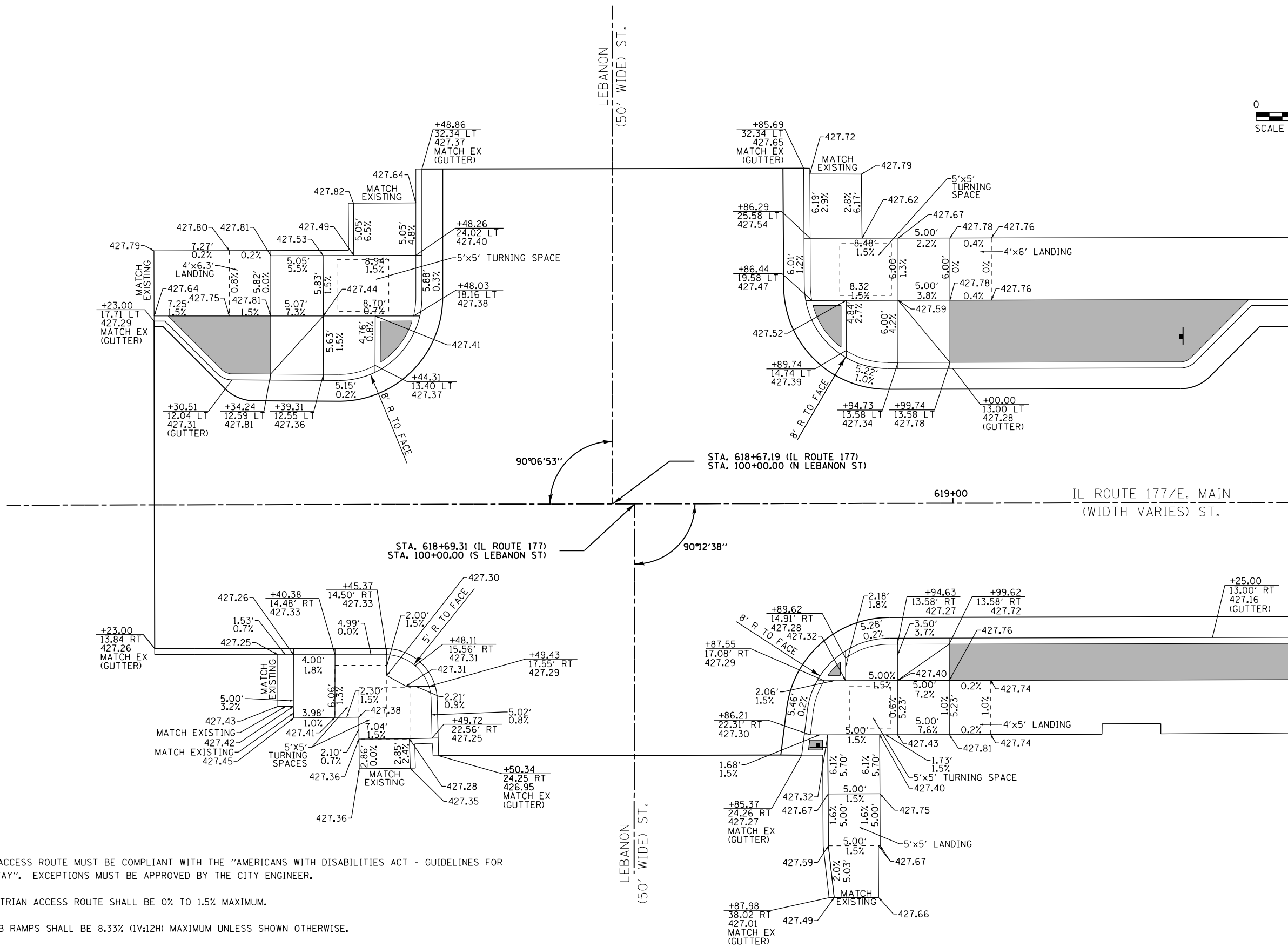
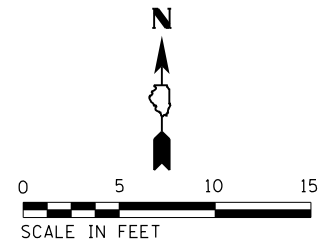
**EFK Moen, LLC**  
**Civil Engineering Design**  
 303 FOUNTAINS PKWY, SUITE 240  
 FAIRVIEW HEIGHTS, IL 62208  
 618-206-4250  
 IL. LICENSE NO. 184-002293

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAU ROUTE 9377 (IL 177)  
 SECTION 14-00025-00-PV  
 ST. CLAIR COUNTY  
 JOB NO. R-98-016-17

SHEET 8 OF 8

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

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	41
CONTRACT NO.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTES:**

1. ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE "AMERICANS WITH DISABILITIES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY". EXCEPTIONS MUST BE APPROVED BY THE CITY ENGINEER.
2. THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 0% TO 1.5% MAXIMUM.
3. THE RUNNING SLOPE OF THE CURB RAMPS SHALL BE 8.33% (1V:12H) MAXIMUM UNLESS SHOWN OTHERWISE.
4. SPOT ELEVATIONS, SLOPES, AND DIMENSIONS ARE APPROXIMATE AND MAY VARY DURING CONSTRUCTION. THESE ARE PROVIDED TO CONFIRM RAMP, LANDING, AND SIDEWALK DETAILS CONFORM TO ADA GUIDELINES AND MAY BE MODIFIED FOR FIELD CONDITIONS. TIE INS TO THE EXISTING STREET PAVEMENT OR SIDEWALK SHALL BE FLUSH.
5. ALL STATIONS AND OFFSETS ARE ARE BASED ON THE IL ROUTE 177 CENTERLINE AND ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STAMPED COLORED  
PCC SIDEWALK

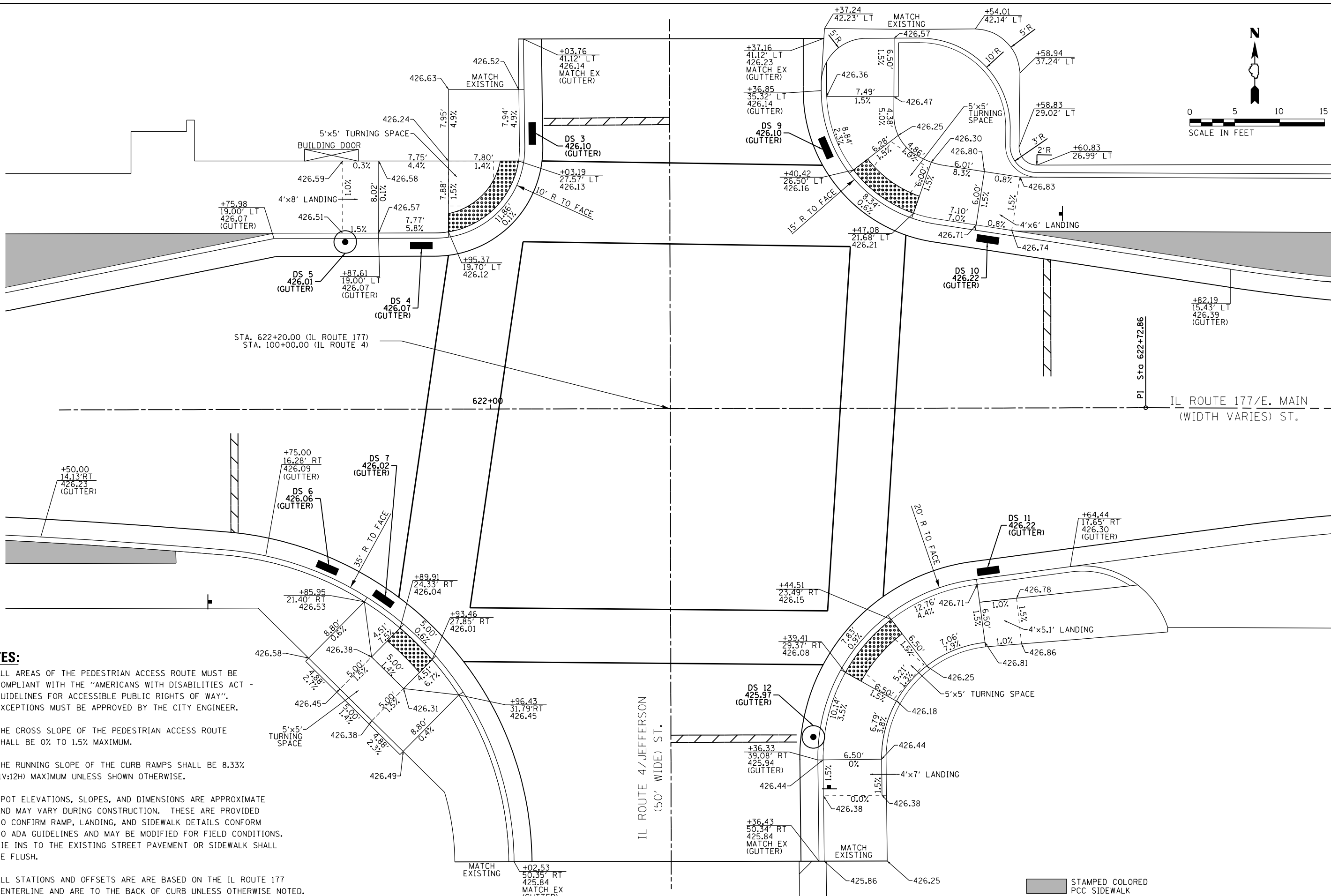
**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 10.000000 "/>	DRAWN - SJF	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**INTERSECTION AND SIDEWALK  
RAMP DETAILS**  
SCALE: 1" = 5' SHEET 1 OF 3 SHEETS STA. 618+23.00 TO STA. 619+32.72

F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00PV	ST. CLAIR	61	42
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE "AMERICANS WITH DISABILITIES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY". EXCEPTIONS MUST BE APPROVED BY THE CITY ENGINEER.
2. THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 0% TO 1.5% MAXIMUM.
3. THE RUNNING SLOPE OF THE CURB RAMPS SHALL BE 8.33% (1V:12H) MAXIMUM UNLESS SHOWN OTHERWISE.
4. SPOT ELEVATIONS, SLOPES, AND DIMENSIONS ARE APPROXIMATE AND MAY VARY DURING CONSTRUCTION. THESE ARE PROVIDED TO CONFIRM RAMP, LANDING, AND SIDEWALK DETAILS CONFORM TO ADA GUIDELINES AND MAY BE MODIFIED FOR FIELD CONDITIONS. TIE INS TO THE EXISTING STREET PAVEMENT OR SIDEWALK SHALL BE FLUSH.
5. ALL STATIONS AND OFFSETS ARE BASED ON THE IL ROUTE 177 CENTERLINE AND ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

**EFK Moen**  
Civil Engineering Design

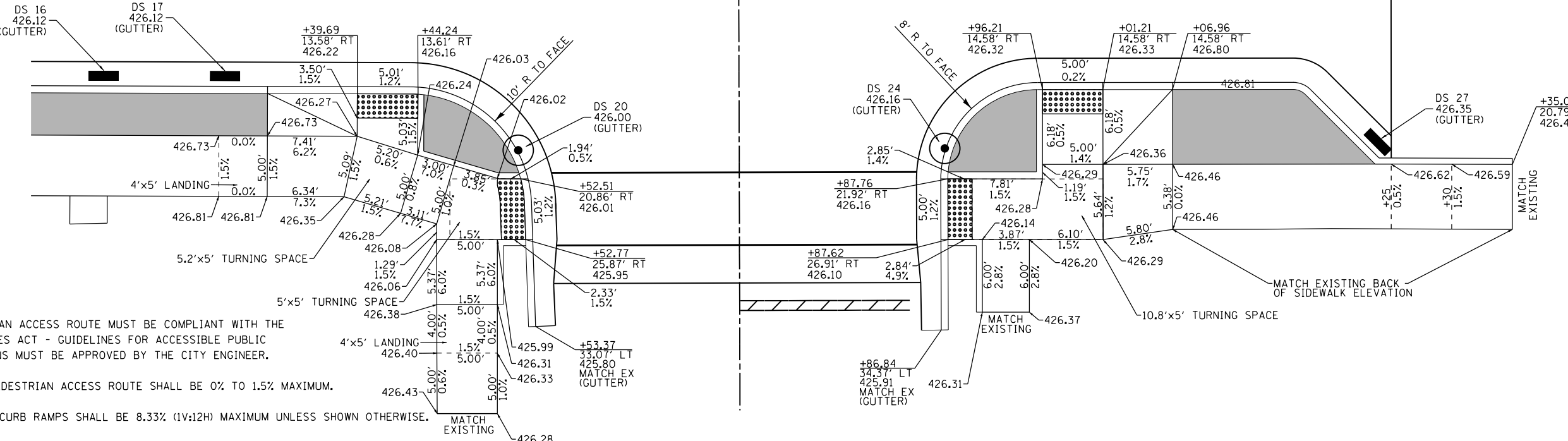
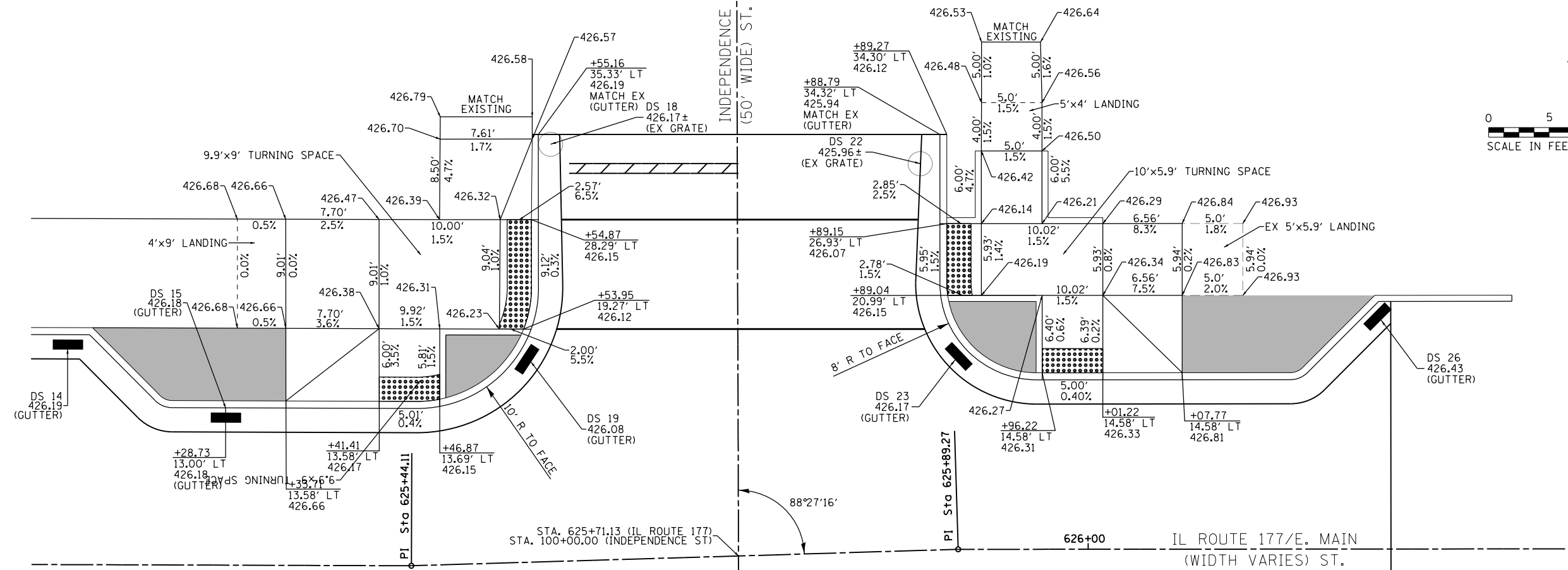
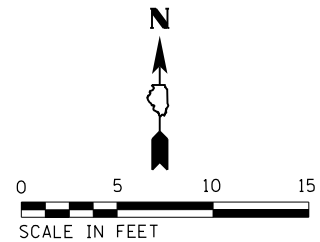
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PLOT SCALE = 10.000000 "/> <td>DRAWN - SJF</td> <td>REVISED -</td>	DRAWN - SJF	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**INTERSECTION AND SIDEWALK RAMP DETAILS**  
SCALE: 1" = 5' SHEET 2 OF 3 SHEETS STA. 621+52.06 TO STA. 622+93.74

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	43

ILLINOIS FED. AID PROJECT



**NOTES:**

1. ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE "AMERICANS WITH DISABILITIES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY". EXCEPTIONS MUST BE APPROVED BY THE CITY ENGINEER.
2. THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 0% TO 1.5% MAXIMUM.
3. THE RUNNING SLOPE OF THE CURB RAMPS SHALL BE 8.33% (1V:12H) MAXIMUM UNLESS SHOWN OTHERWISE.
4. SPOT ELEVATIONS, SLOPES, AND DIMENSIONS ARE APPROXIMATE AND MAY VARY DURING CONSTRUCTION. THESE ARE PROVIDED TO CONFIRM RAMP, LANDING, AND SIDEWALK DETAILS CONFORM TO ADA GUIDELINES AND MAY BE MODIFIED FOR FIELD CONDITIONS. TIE INS TO THE EXISTING STREET PAVEMENT OR SIDEWALK SHALL BE FLUSH.
5. ALL STATIONS AND OFFSETS ARE BASED ON THE IL ROUTE 177 CENTERLINE AND ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STAMPED COLORED PCC SIDEWALK

**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 10.010736 ' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

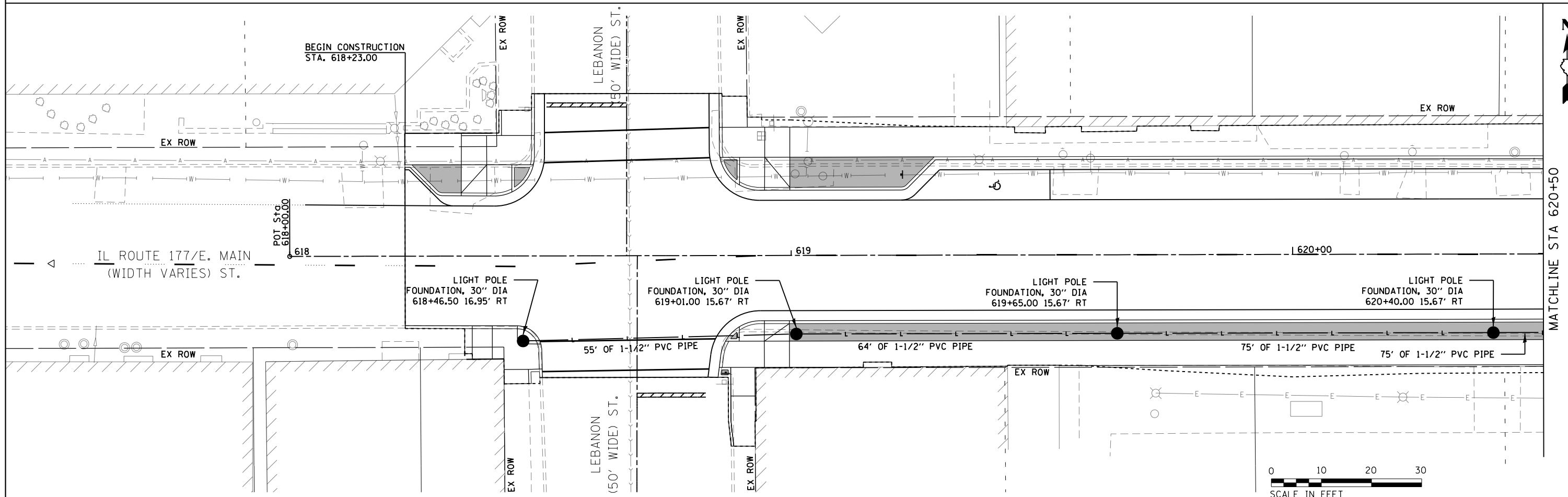
INTERSECTION AND SIDEWALK RAMP DETAILS			
SCALE: 1" = 5'	SHEET 3 OF 3 SHEETS	STA. 625+12.75 TO STA. 626+25.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-OOPV	ST. CLAIR	61	44
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE STANDARD 836001 FOR LIGHT POLE FOUNDATION ELECTRODE
2. BOLT CIRCLE DIAMETER AND BOLT PATTERN SHALL BE VERIFIED WITH CITY ENGINEER PRIOR TO CONSTRUCTING FOUNDATIONS.



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - SLD	REVISED -
PLOT SCALE = 20.000000' / 1" =	DRAWN - MSK	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

City of Mascoutah, Illinois

**LIGHTING FOUNDATION PLAN**

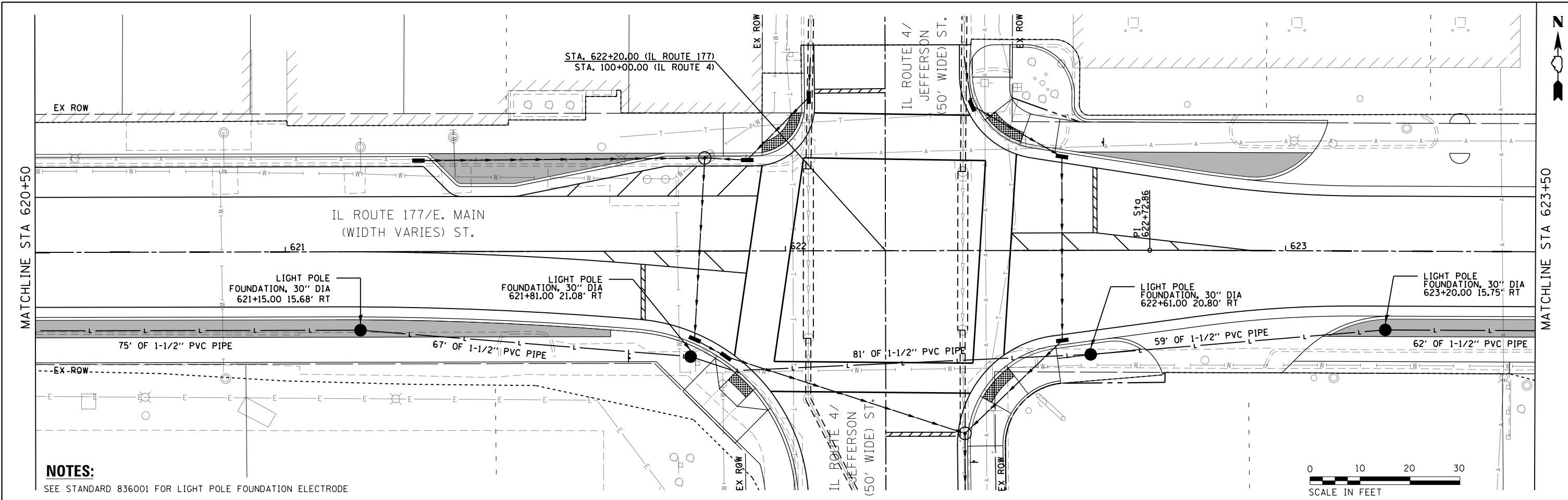
SCALE: 1" = 10' SHEET 1 OF 2 SHEETS STA. 618+00.00 TO STA. 620+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	46

ILLINOIS FED. AID PROJECT

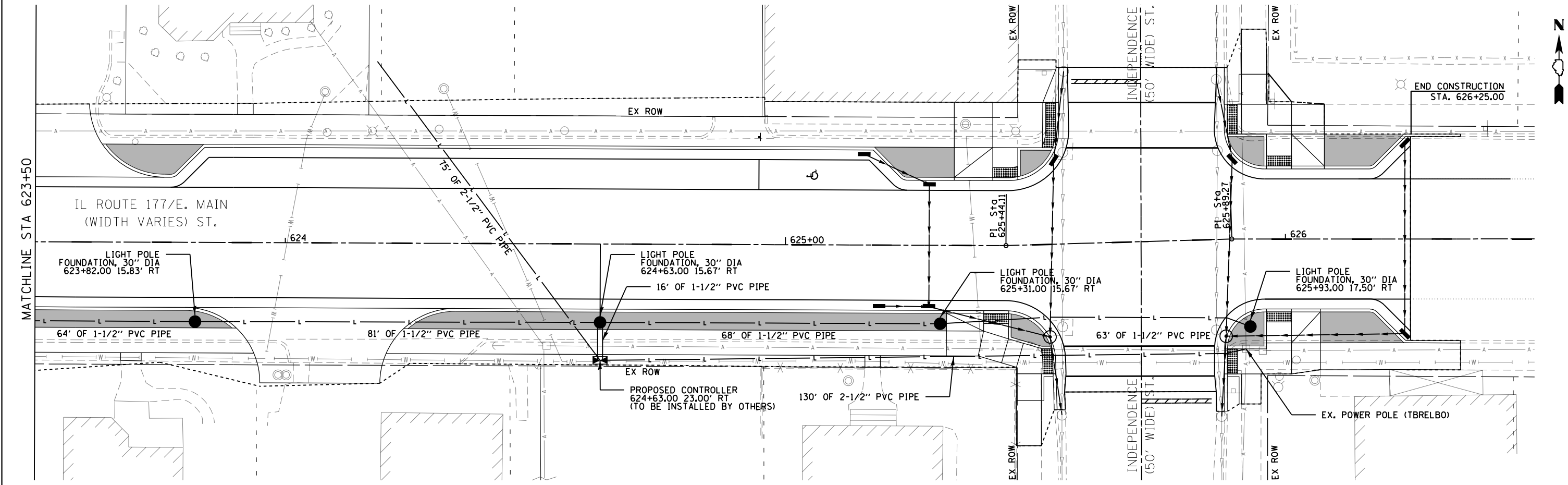


MATCHLINE STA 620+50



**NOTES:**

SEE STANDARD 836001 FOR LIGHT POLE FOUNDATION ELECTRODE



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - SLD	REVISED -
PLOT SCALE = 20.000000' / 1"	DRAWN - MSK	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

City of Mascoutah, Illinois





**LIGHTING FOUNDATION PLAN**

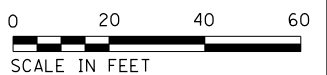
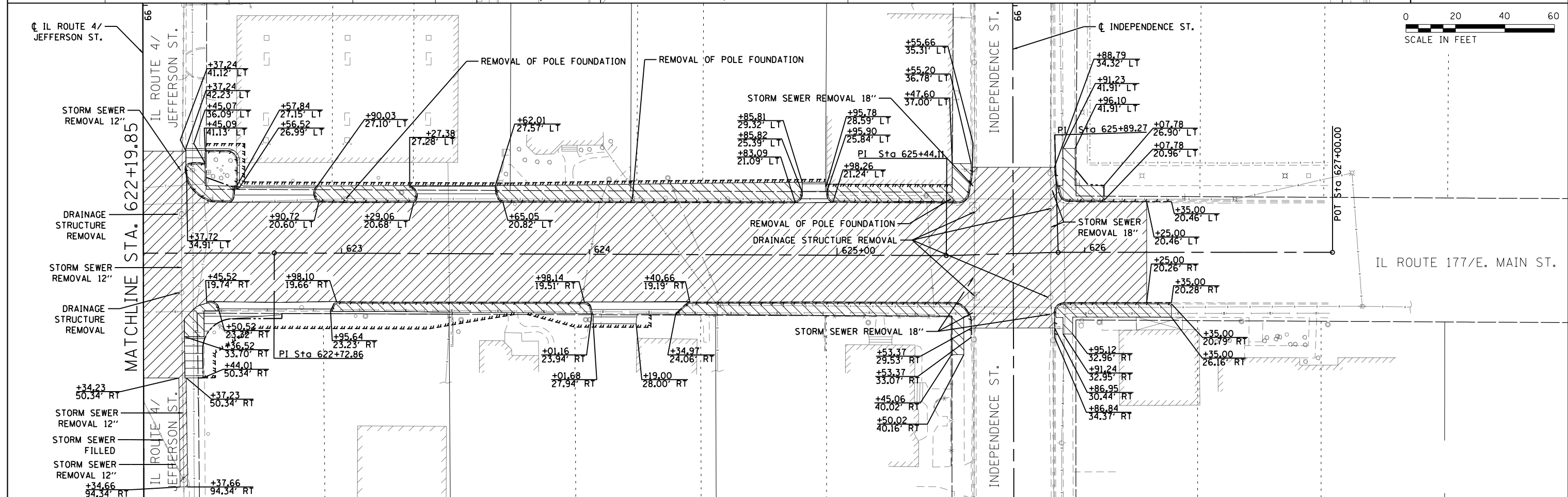
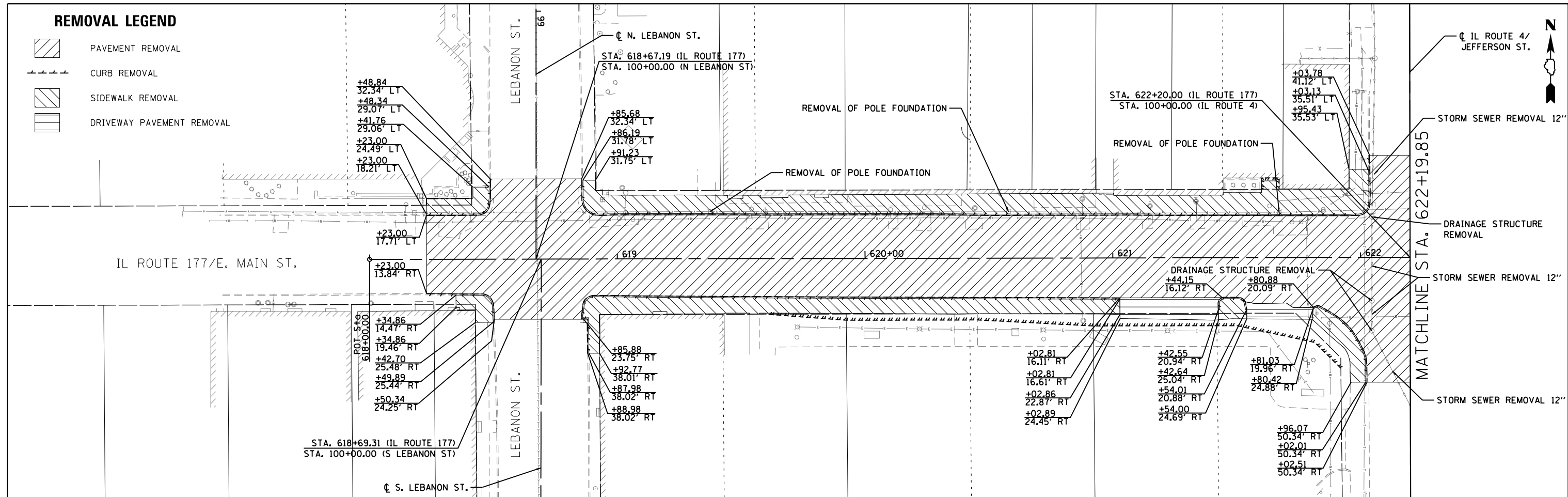
SCALE: 1" = 10' SHEET 2 OF 2 SHEETS STA. 620+50.00 TO STA. 626+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00-PV	ST. CLAIR	61	47

ILLINOIS FED. AID PROJECT

**REMOVAL LEGEND**

-  PAVEMENT REMOVAL
-  CURB REMOVAL
-  SIDEWALK REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL



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Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
PLOT SCALE = 48.000000' / in.	DRAWN - MSK	REVISED -
PLOT DATE = 3/27/2020	CHECKED - PJK	REVISED -
	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**REMOVAL PLAN**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 618+23.00 TO STA. 626+35.00

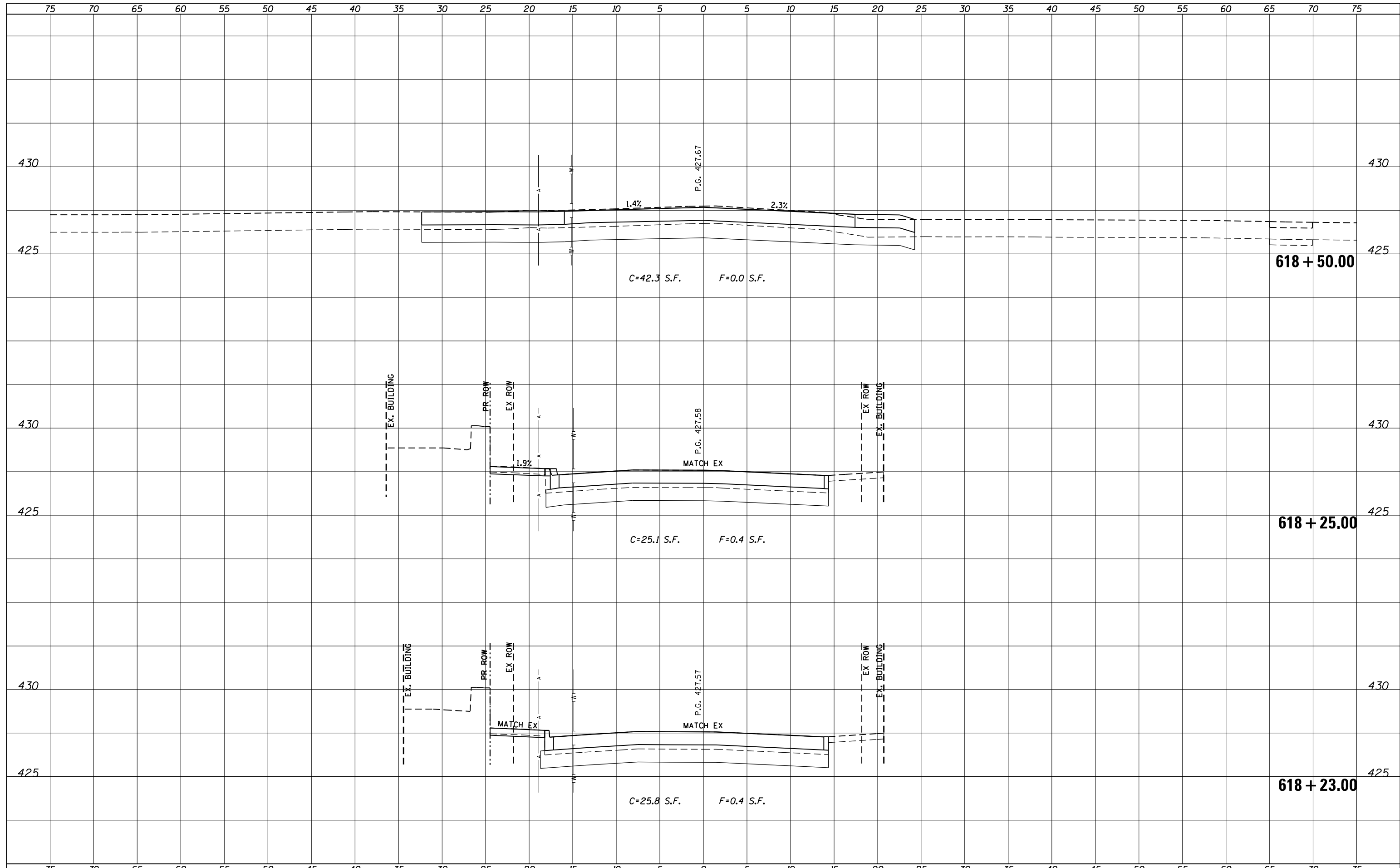
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00PV	ST. CLAIR	61	48

ILLINOIS FED. AID PROJECT



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FINAL SURVEY	
NOTE BOOK	
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NOTE BOOK	
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Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

SCALE: 5'H : 2.5'V		SHEET 1 OF 13 SHEETS	STA. 618+23.00 TO STA. 618+50.00
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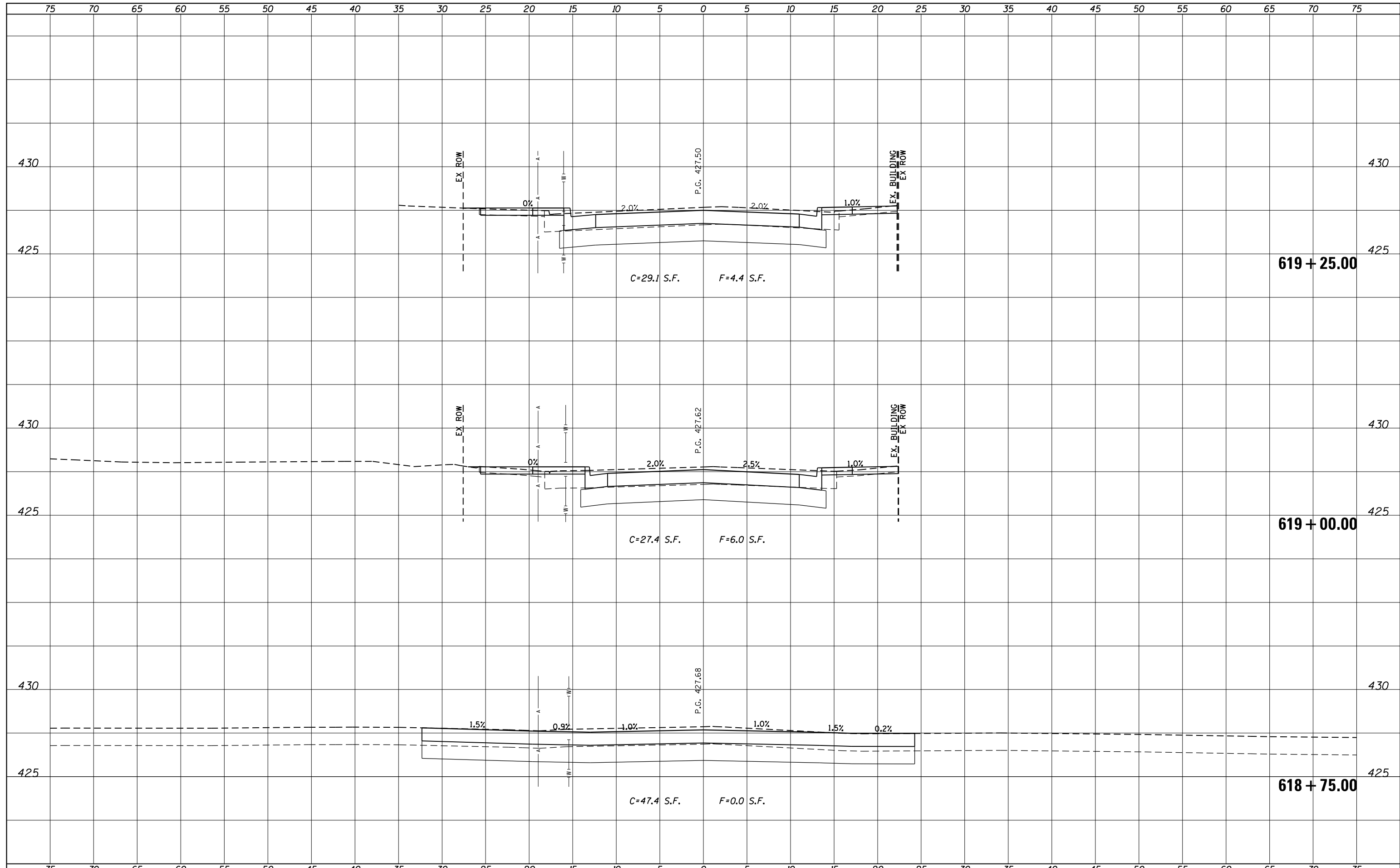
**CROSS SECTIONS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	49

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	
NOTE BOOK	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**CROSS SECTIONS**

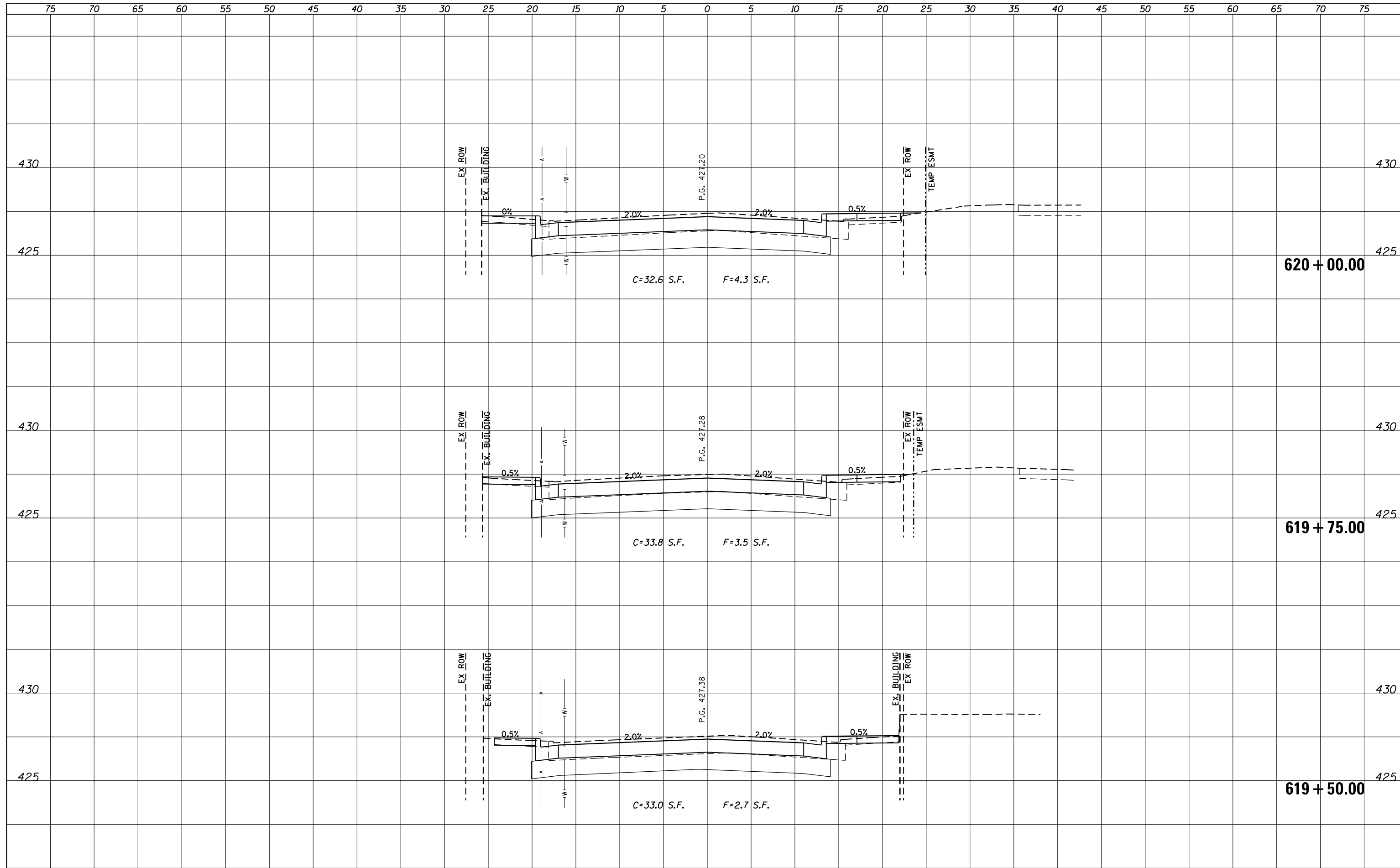
SCALE: 5'H : 2.5'V SHEET 2 OF 13 SHEETS STA. 618+75.00 TO STA. 619+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	50

ILLINOIS FED. AID PROJECT

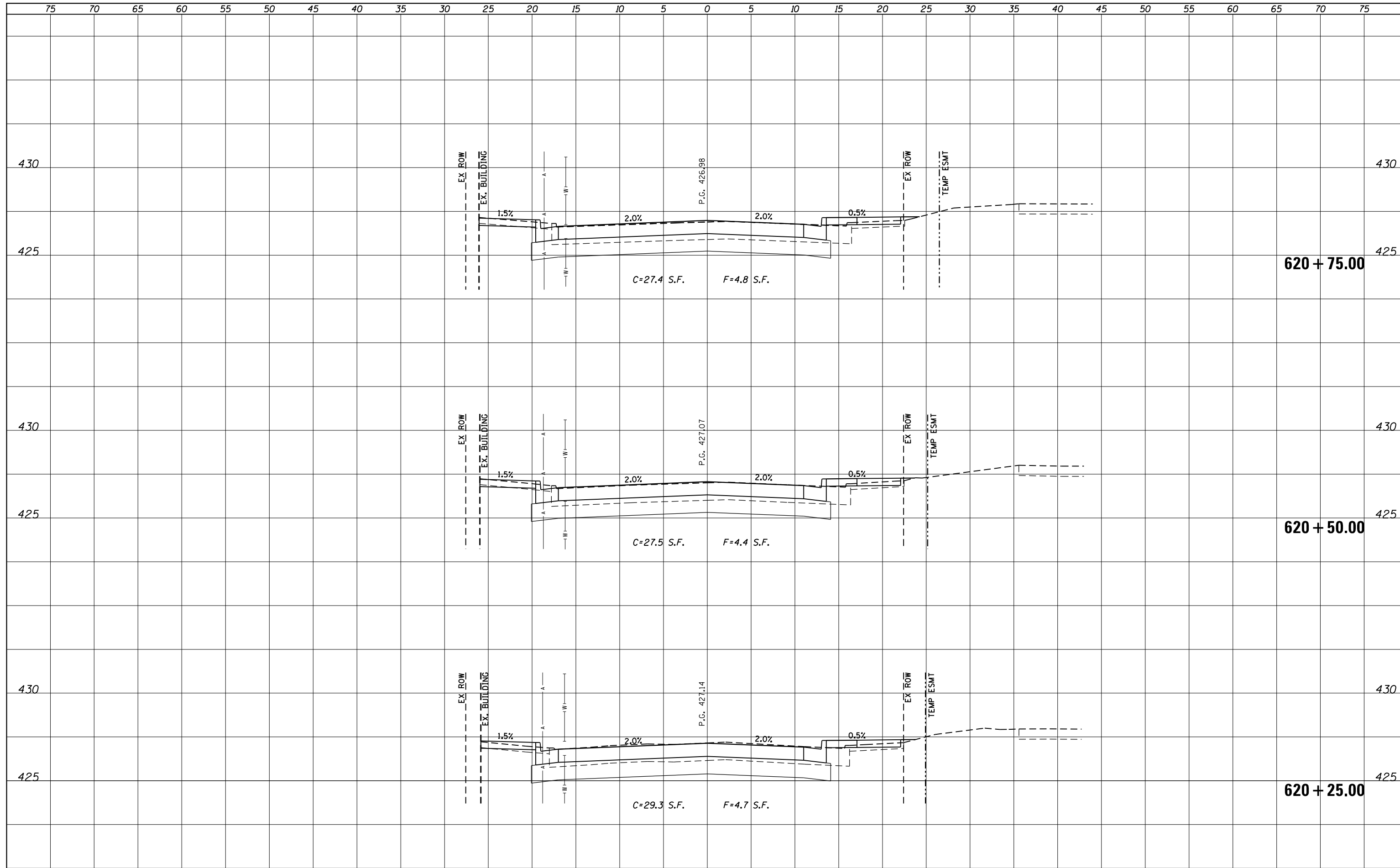
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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FINAL SURVEY	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**CROSS SECTIONS**

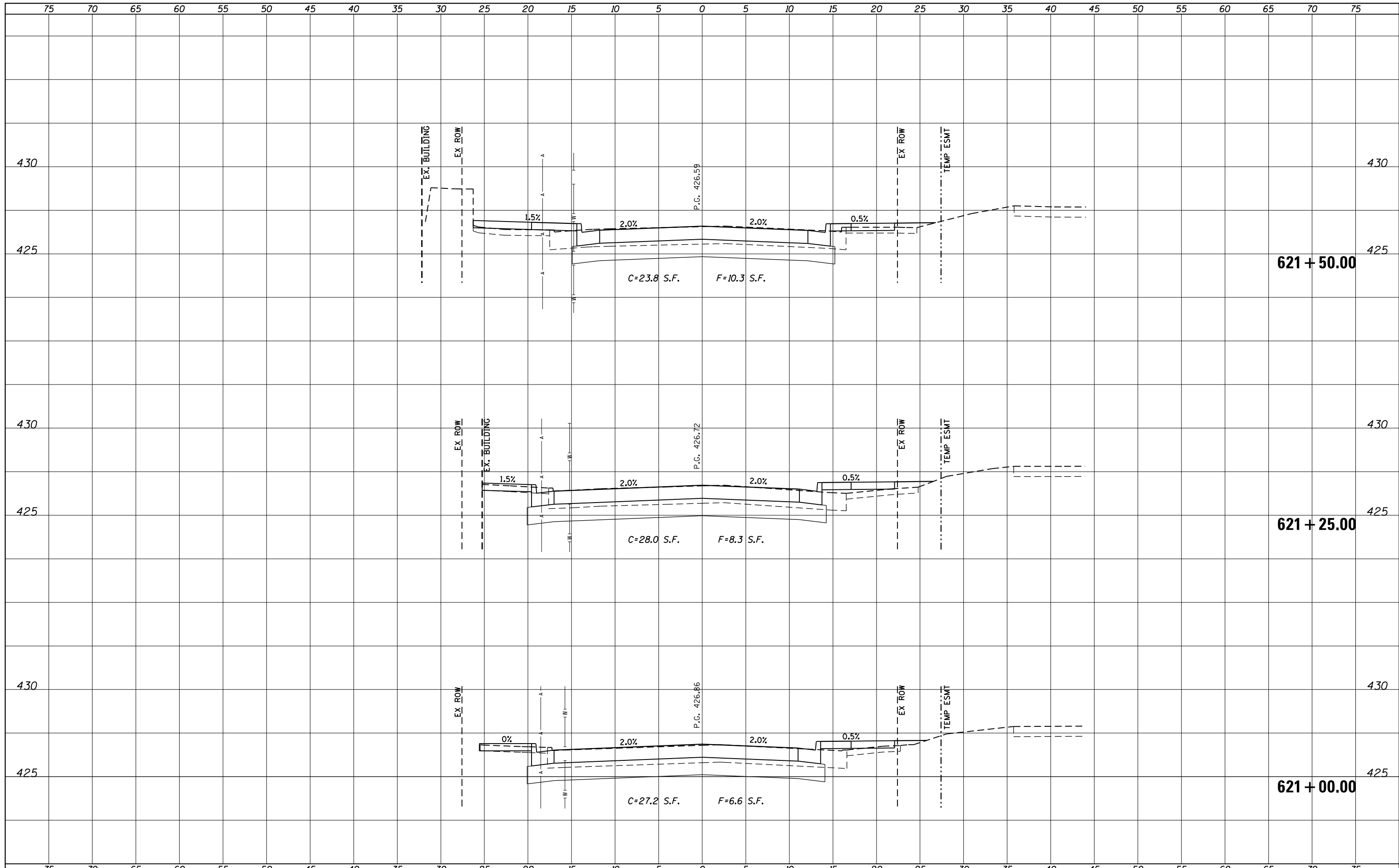
SCALE: 5'H : 2.5'V SHEET 4 OF 13 SHEETS STA. 620+25.00 TO STA. 620+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	52

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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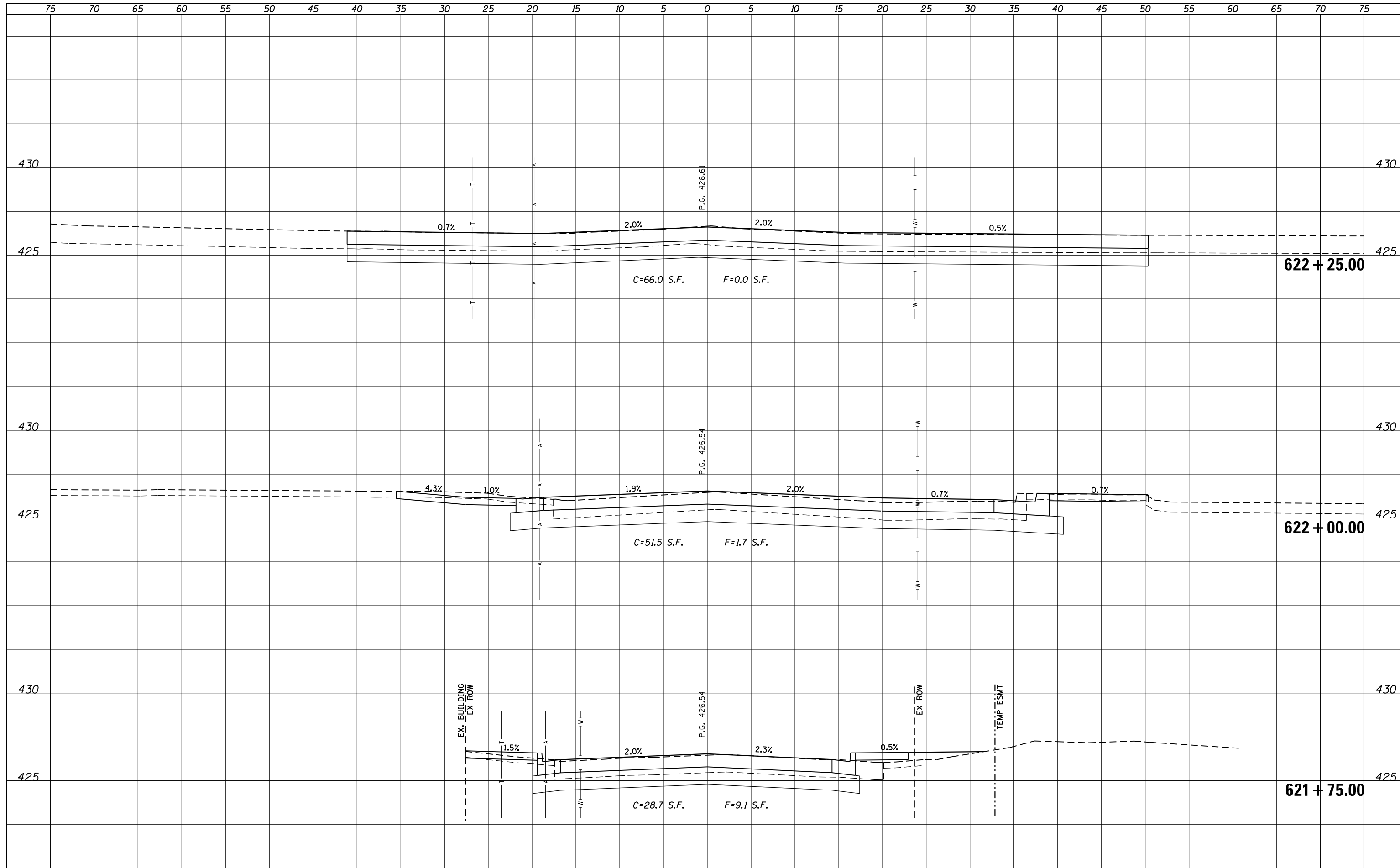


USER NAME = sd	DESIGNED - JRD	REVISIED -
	DRAWN - MSK	REVISIED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISIED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISIED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	53
ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISIED -
	DRAWN - MSK	REVISIED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISIED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISIED -

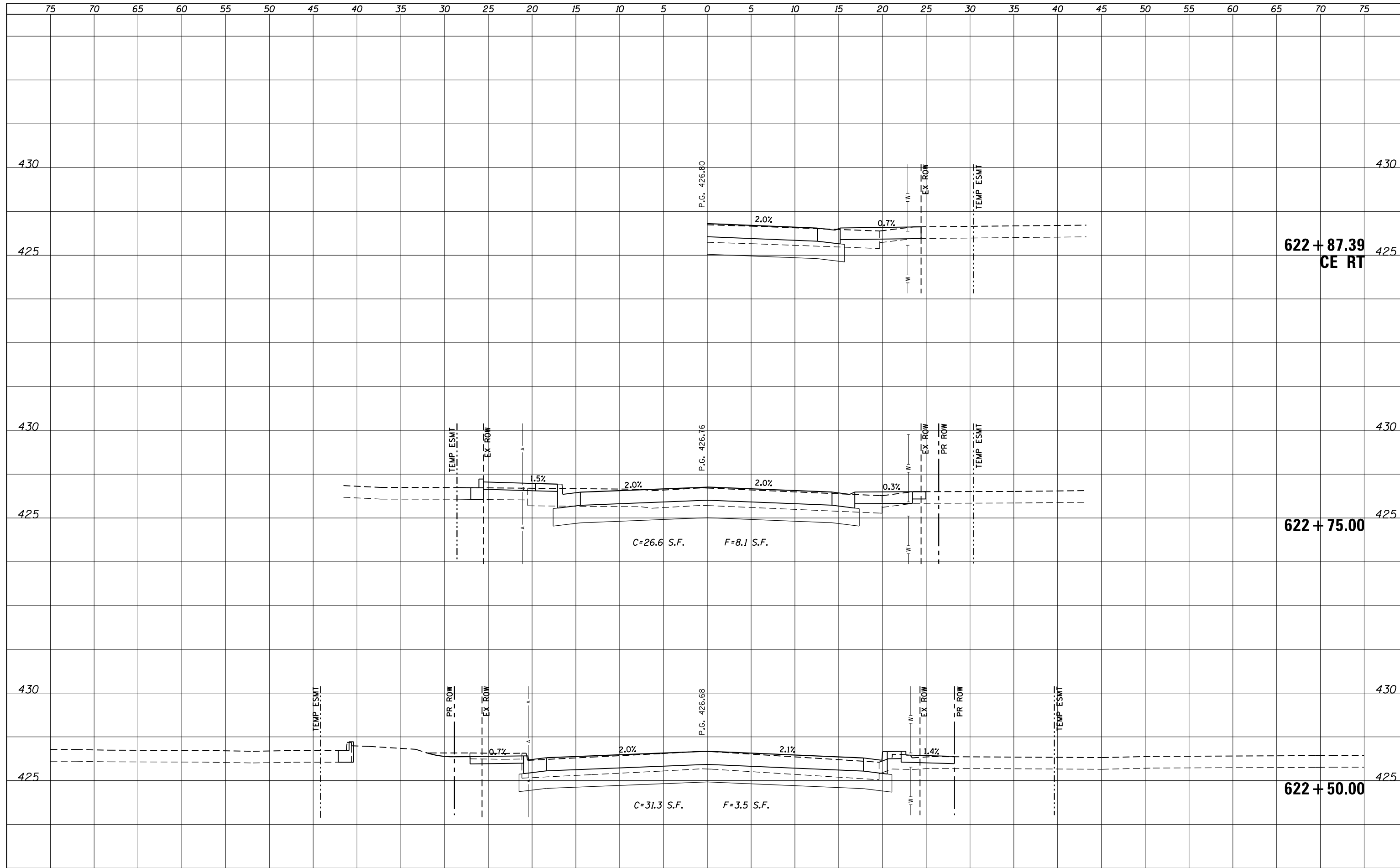
**City of Mascoutah, Illinois**

<b>CROSS SECTIONS</b>	
SCALE: 5'H : 2.5'V	SHEET 6 OF 13 SHEETS
STA. 621+75.00 TO STA. 622+25.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	54
ILLINOIS FED. AID PROJECT				

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

DATE	
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TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISIED -
	DRAWN - MSK	REVISIED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISIED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISIED -

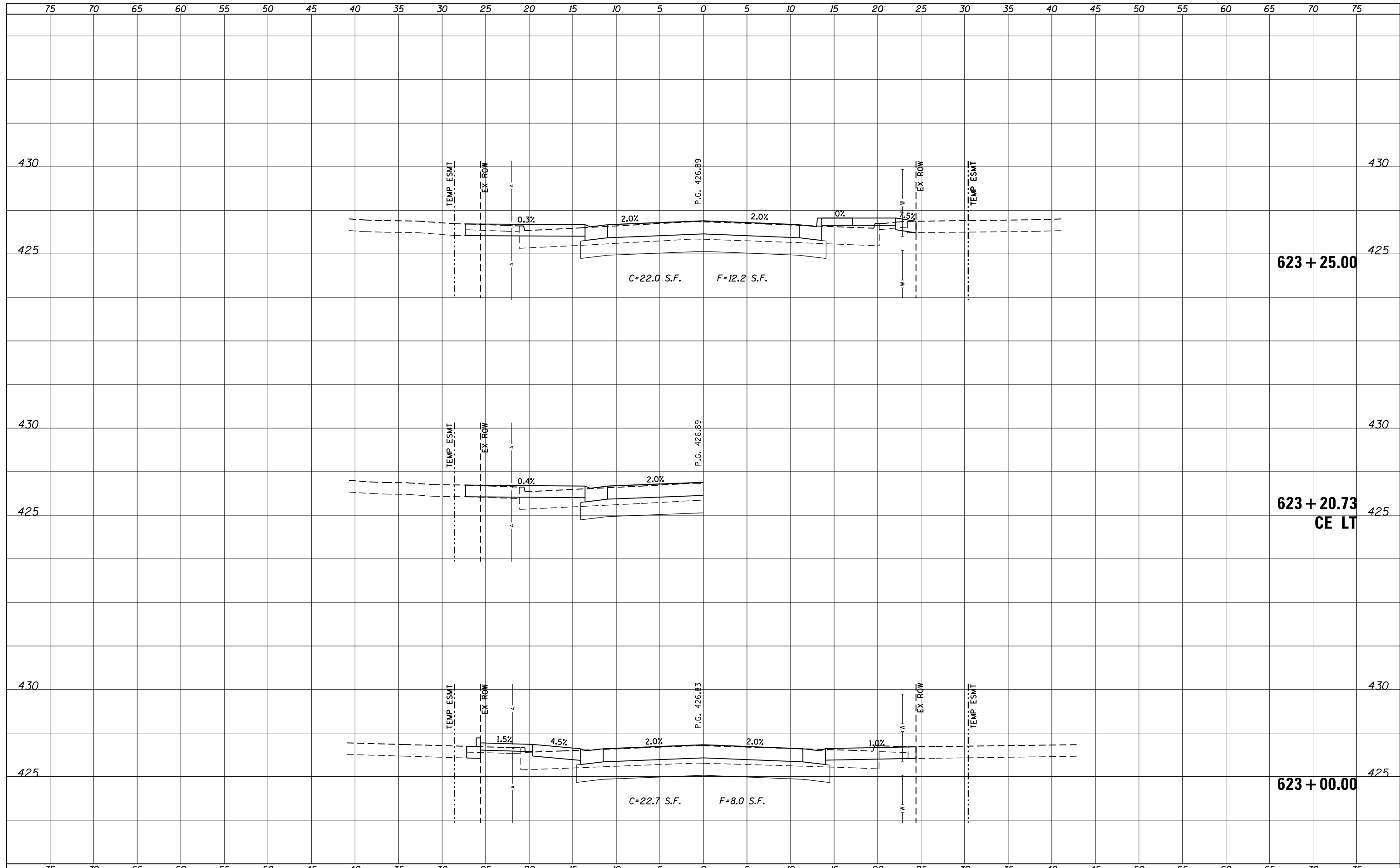
**City of Mascoutah, Illinois**

<b>CROSS SECTIONS</b>	
SCALE: 5'H : 2.5'V	SHEET 7 OF 13 SHEETS
STA. 622+50.00 TO STA. 622+83.39	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	55
ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISIED -
	DRAWN - MSK	REVISIED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISIED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISIED -

City of Mascoutah, Illinois

SCALE: 5'H : 2.5'V		SHEET 8 OF 13 SHEETS	STA. 623+00.00 TO STA. 623+25.00
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CROSS SECTIONS

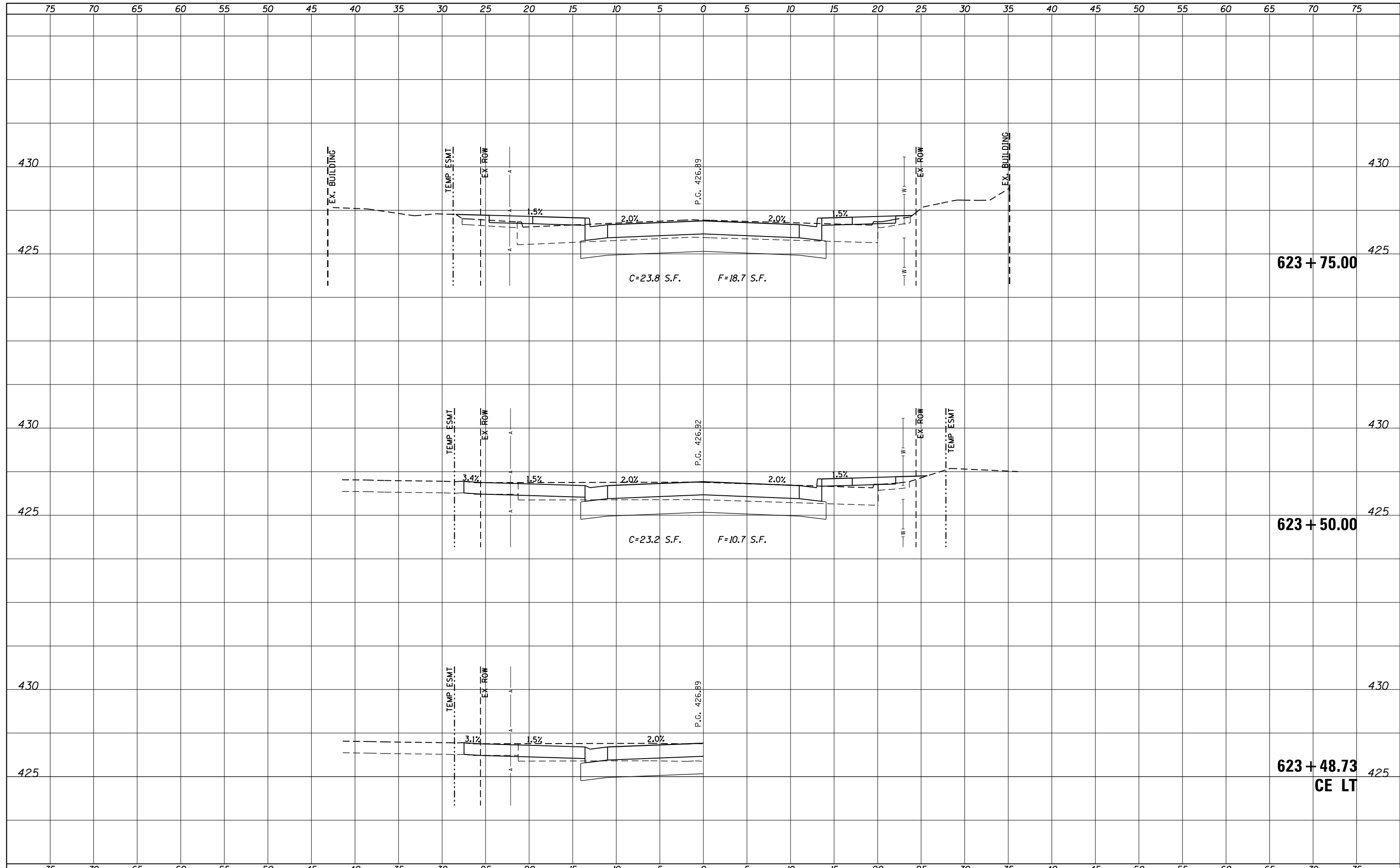
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	56

ILLINOIS FED. AID PROJECT



DATE	
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SURVEYED	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1" =	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

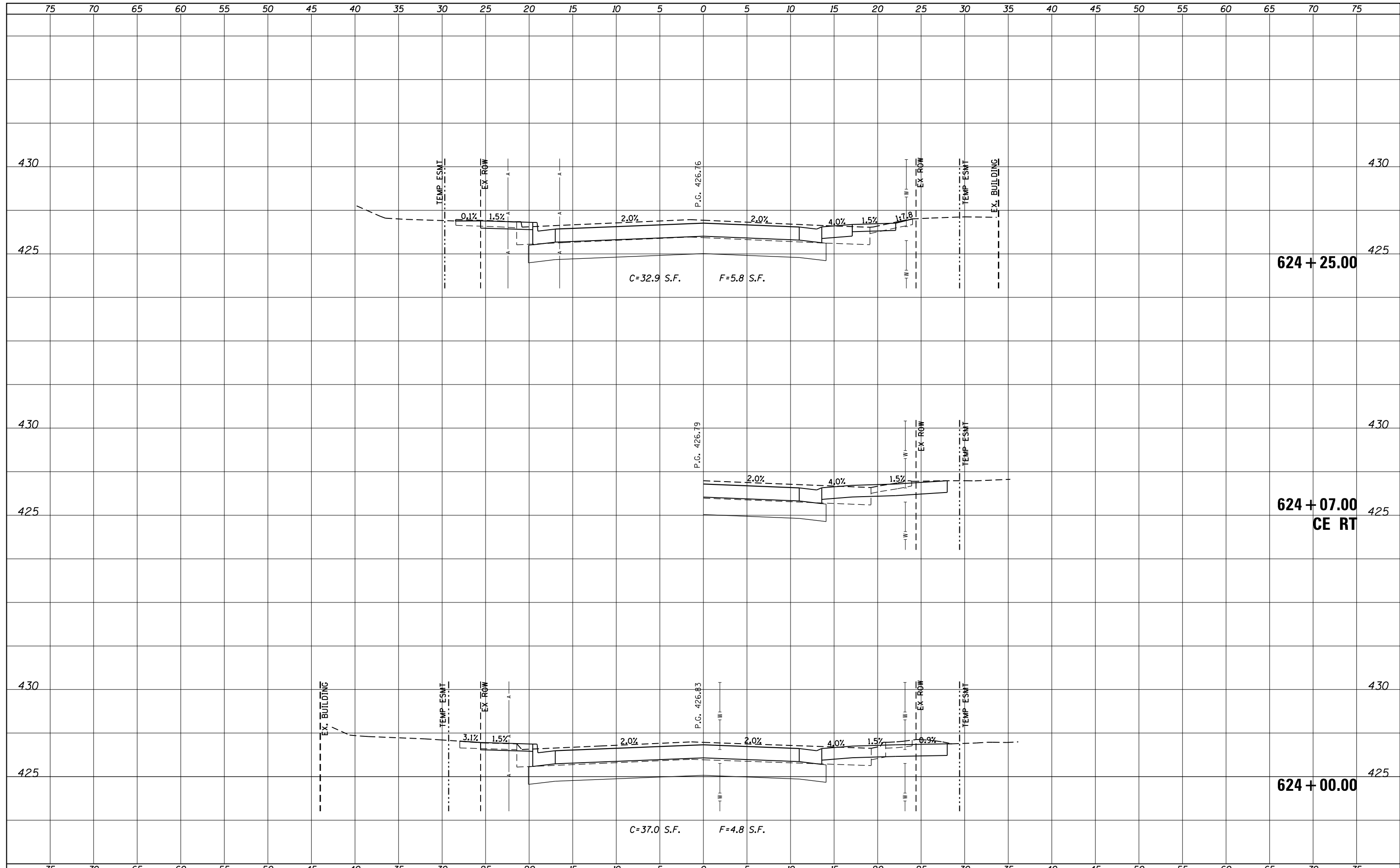
**City of Mascoutah, Illinois**

<b>CROSS SECTIONS</b>	
SCALE: 5'H : 2.5'V	SHEET 9 OF 13 SHEETS
STA. 623+48.73	TO STA. 623+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	57
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

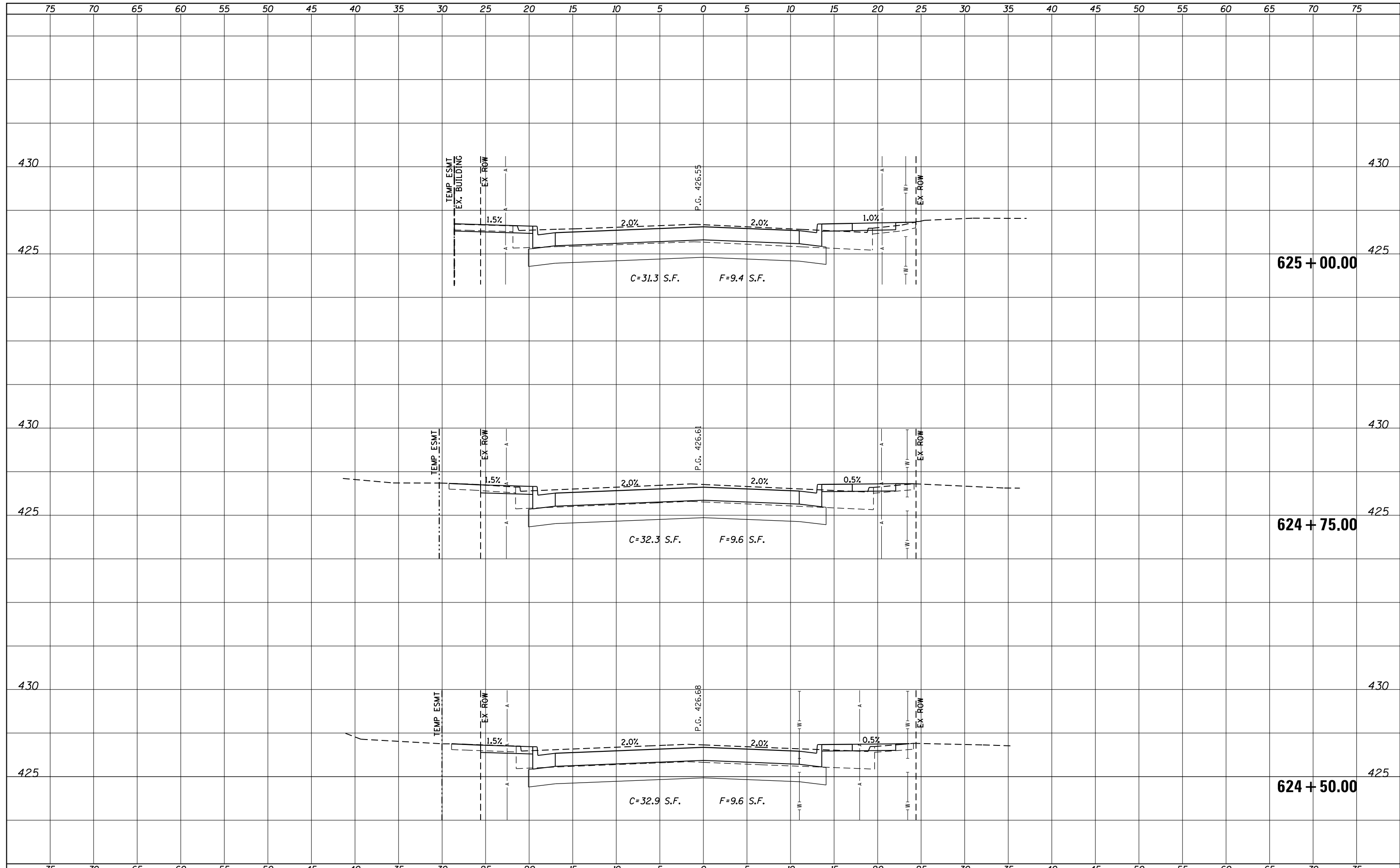
**CROSS SECTIONS**  
SCALE: 5'H : 2.5'V SHEET 10 OF 13 SHEETS STA. 624+00.00 TO STA. 624+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	58

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	
NOTE BOOK	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**CROSS SECTIONS**

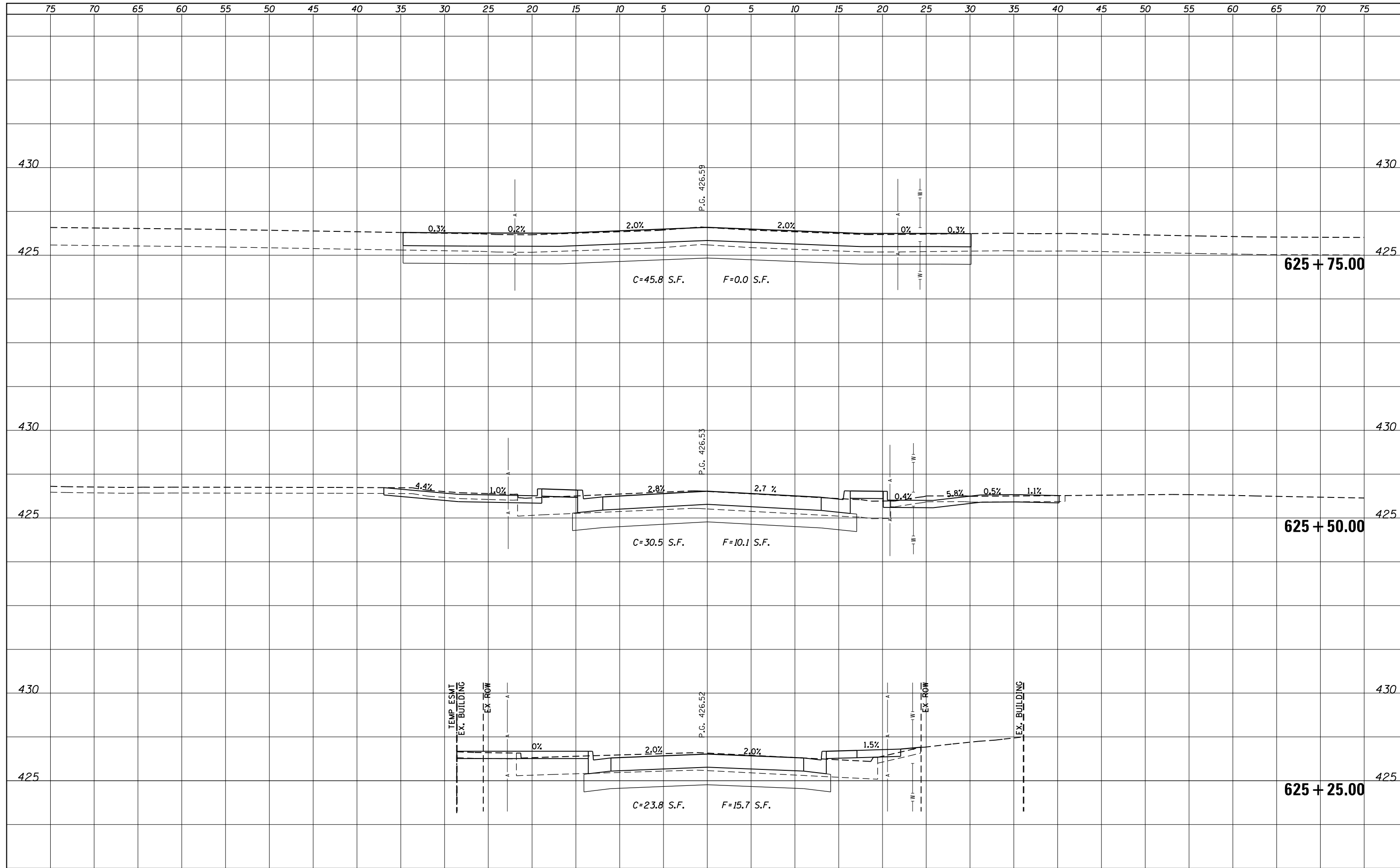
SCALE: 5'H : 2.5'V SHEET 11 OF 13 SHEETS STA. 624+50.00 TO STA. 625+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	59

ILLINOIS FED. AID PROJECT

DATE	
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SURVEYED	
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**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - PJK	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/30/2020	REVISED -

**City of Mascoutah, Illinois**

**CROSS SECTIONS**

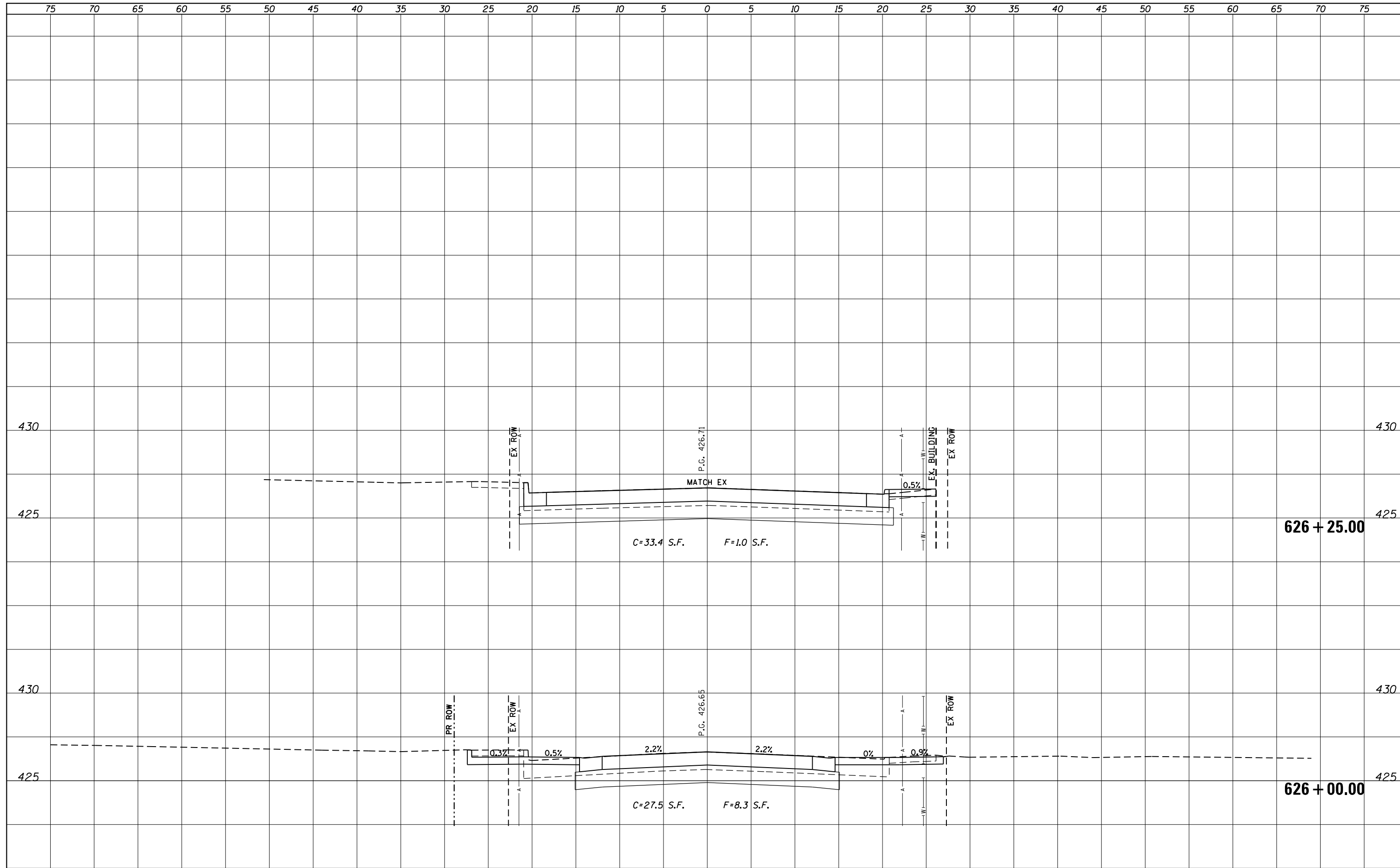
SCALE: 5'H : 2.5'V SHEET 12 OF 13 SHEETS STA. 625+25.00 TO STA. 625+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	60

ILLINOIS FED. AID PROJECT

DATE	
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TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
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ORIGINAL SURVEY NOTE BOOK NO.	



**EFK Moen**  
Civil Engineering Design

USER NAME = sd	DESIGNED - JRD	REVISED -
	DRAWN - MSK	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - PJK	REVISED -
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City of Mascoutah, Illinois


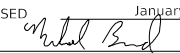
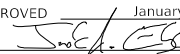
**CROSS SECTIONS**

SCALE: 5'H : 2.5'V SHEET 13 OF 13 SHEETS STA. 626+00.00 TO STA. 626+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9377	14-00025-00 PV	ST. CLAIR	61	61

ILLINOIS FED. AID PROJECT

ABV	ABOVE	CU YD	CUBIC YARD	HD	HEAD	PED	PEDESTAL	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HDW	HEADWALL	PNT	POINT	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	HMA	HOT MIX ASPHALT			SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HWY	HIGHWAY	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HORIZ	HORIZONTAL	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HSE	HOUSE	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	IL	ILLINOIS	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IMP	IMPROVEMENT	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IN DIA	INCH DIAMETER	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	INL	INLET	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INST	INSTALLATION	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	IDS	INTERSECTION DESIGN STUDY	PROF	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	INV	INVERT	PGL	PROFILE GRADELINE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	IP	IRON PIPE	PROJ	PROJECT	TEL	TELEPHONE
B	BARN	EA	EACH	IR	IRON ROD	P.C.	PROPERTY CORNER	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	JT	JOINT	PL	PROPERTY LINE	TP	TELEPHONE POLE
BGN	BEGIN	EOP	EDGE OF PAVEMENT	kg	KILOGRAM	PR	PROPOSED	TEMP	TEMPORARY
BM	BENCHMARK	E-CL	EDGE TO CENTERLINE	km	KILOMETER	R	RADIUS	TBM	TEMPORARY BENCH MARK
BIND	BINDER	E-E	EDGE TO EDGE	LS	LANDSCAPING	RR	RAILROAD	TD	TILE DRAIN
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RRS	RAILROAD SPIKE	TBE	TO BE EXTENDED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	RPS	REFERENCE POINT STAKE	TBR	TO BE REMOVED
BLVD	BOULEVARD	EXC	EXCAVATION	LP	LIGHT POLE	REF	REFLECTIVE	TBS	TO BE SAVED
BRK	BRICK	EX	EXISTING	LGT	LIGHTING	RCCP	REINFORCED CONCRETE CULVERT PIPE	TWP	TOWNSHIP
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LF	LINEAL FEET OR LINEAR FEET	REINF	REINFORCEMENT	TR	TOWNSHIP ROAD
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	L	LITER OR CURVE LENGTH	REM	REMOVAL	TS	TRAFFIC SIGNAL
CIP	CAST IRON PIPE	E	OFFSET DISTANCE TO VERTICAL CURVE	LC	LONG CHORD	RC	REMOVE CROWN	TSCB	TRAFFIC SIGNAL CONTROL BOX
CB	CATCH BASIN	F-F	FACE TO FACE	LNG	LONGITUDINAL	REP	REPLACEMENT	TSC	TRAFFIC SYSTEMS CENTER
C-C	CENTER TO CENTER	FA	FEDERAL AID	L SUM	LUMP SUM	REST	RESTAURANT	TRVS	TRANSVERSE
CL	CENTERLINE OR CLEARANCE	FAI	FEDERAL AID INTERSTATE	MACH	MACHINE	RESURF	RESURFACING	TRVL	TRAVEL
CL-E	CENTERLINE TO EDGE	FAP	FEDERAL AID PRIMARY	MB	MAIL BOX	RET	RETAINING	TRN	TURN
CL-F	CENTERLINE TO FACE	FAS	FEDERAL AID SECONDARY	MH	MANHOLE	RT	RIGHT	TY	TYPE
CTS	CENTERS	FAUS	FEDERAL AID URBAN SECONDARY	MATL	MATERIAL	ROW	RIGHT-OF-WAY	T-A	TYPE A
CERT	CERTIFIED	FP	FENCE POST	MED	MEDIAN	RD	ROAD	TYP	TYPICAL
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	RDWY	ROADWAY	UNDGND	UNDERGROUND
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	RTE	ROUTE	USGS	U.S. GEOLOGICAL SURVEY
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SAN	SANITARY	USEL	UPSTREAM ELEVATION
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SANS	SANITARY SEWER	USFL	UPSTREAM FLOWLINE
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SEC	SECTION	UTIL	UTILITY
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	SEED	SEEDING	VBOX	VALVE BOX
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	SHAP	SHAPING	VV	VALVE VAULT
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	S	SHED	VL	VAULT
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SH	SHEET	VEH	VEHICLE
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SHLD	SHOULDER	VP	VENT PIPE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SW	SIDEWALK OR SOUTHWEST	VERT	VERTICAL
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SIG	SIGNAL	VC	VERTICAL CURVE
CONT	CONTINUOUS	GV	GAS VALVE	NOAA	NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION	SOD	SODDING	VPC	VERTICAL POINT OF CURVATURE
COR	CORNER	GRAN	GRANULAR			SM	SOLID MEDIAN	VPI	VERTICAL POINT OF INTERSECTION
CORR	CORRUGATED	GR	GRATE	NC	NORMAL CROWN	SB	SOUTHBOUND	VPT	VERTICAL POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	GRVL	GRAVEL	NB	NORTHBOUND	SE	SOUTHEAST	WM	WATER METER
CNTY	COUNTY	GND	GROUND	NE	NORTHEAST	SPL	SPECIAL	VV	WATER VALVE
CH	COUNTY HIGHWAY	GUT	GUTTER	NW	NORTHWEST	SD	SPECIAL DITCH	WMAIN	WATER MAIN
CSE	COURSE	GP	GUY POLE	OLID	OPEN LID	SQ FT	SQUARE FEET	WB	WESTBOUND
XSECT	CROSS SECTION	GW	GUY WIRE	PAT	PATTERN	m <sup>2</sup>	SQUARE METER	WILDFL	WILDFLOWERS
m <sup>3</sup>	CUBIC METER	HH	HANDHOLE	PVD	PAVED	mm <sup>2</sup>	SQUARE MILLIMETER	W	WITH
mm <sup>3</sup>	CUBIC MILLIMETER	HATCH	HATCHING	PVMT	PAVEMENT	SQ YD	SQUARE YARD	WO	WITHOUT
				PM	PAVEMENT MARKING	STB	STABILIZED		

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DATE	REVISIONS
1-1-19	Added new symbols.
1-1-11	Updated abbreviations and symbols.

## STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

(Sheet 1 of 9)

**STANDARD 000001-07**

<u>ADJUSTMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>ALIGNMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>DRAINAGE ITEMS</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted			ADJ	Baseline	_____	_____		Channel or Stream Line	-----	-----	
Structure To Be Cleaned			C	Centerline	-----	-----		Culvert Line	-----	-----	
Main Structure To Be Filled			FM	Centerline Break Circle	o	o		Grading & Shaping Ditches	-----	-----	
Structure To Be Filled			F	Baseline Symbol	\	\		Drainage Boundary Line	////	////	
Structure To Be Filled Special			FSP	Centerline Symbol	CL	CL		Paved Ditch	-----	-----	
Structure To Be Removed			R	PI Indicator	Δ	Δ		Aggregate Ditch	-----	-----	
Structure To Be Reconstructed			REC	Point Indicator	o	o		Pipe Underdrain	-----	-----	
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=		Storm Sewer	-----	-----	
Frame and Grate To Be Adjusted			A	<u>BOUNDARIES ITEMS</u>		<u>EX</u>	<u>PR</u>	Flowline	FL	FL	
Frame and Lid To Be Adjusted			A	Dashed Property Line	-----	-----		Ditch Check	◆	◆	
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line	_____	_____		Headwall	-	∩	
Valve Vault To Be Adjusted			A	Section/Grant Line	-----	-----		Inlet	□	■	
Special Adjustment			SP	Quarter Section Line	-----	-----		Manhole	⊙	⊙	
Item To Be Abandoned			AB	Quarter/Quarter Section Line	-----	-----		Summit	↔	↔	
Item To Be Moved			M	County/Township Line	-----	-----		Roadway Ditch Flow	~→	~→	
Item To Be Relocated			REL	State Line	-----	-----		Swale	→	→	
Pavement Removal and Replacement				Iron Pipe Found	o	o		Catch Basin	○	●	
				Iron Pipe Set	●	●		Culvert End Section	◁	◁	
				Survey Marker	◐	◐		Water Surface Indicator	▽	▽	
				Property Line Symbol	P	P		Riprap	▨	▨	
				Same Ownership Symbol (Half Size)	↗	↗		<u>HYDRAULICS ITEMS</u>		<u>EX</u>	<u>PR</u>
				Northwest Quarter Corner (Half Size)	◐	◐		Overflow	↪	↪	
				Section Corner (Half Size)	◐	◐		Sheet Flow	→	→	
				Southeast Quarter Corner (Half Size)	◐	◐		Hydrant Outlet	→	→	

**STANDARD SYMBOLS,  
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AND PATTERNS**  
(Sheet 2 of 9)  
**STANDARD 000001-07**

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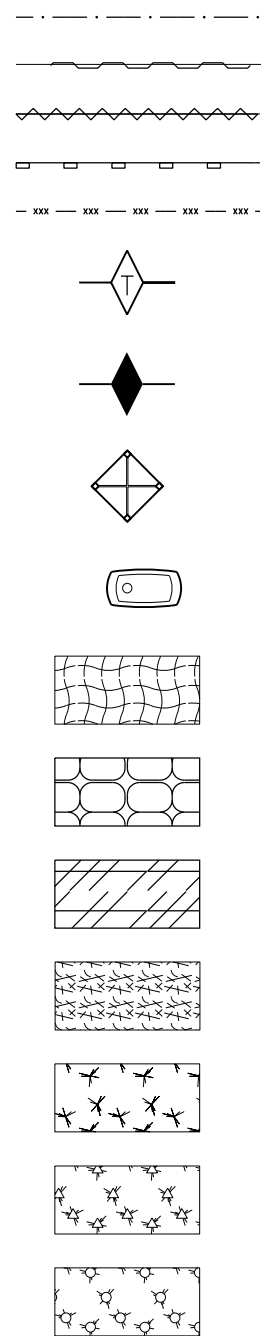
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**EROSION & SEDIMENT CONTROL ITEMS**

**EX**

**PR**

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

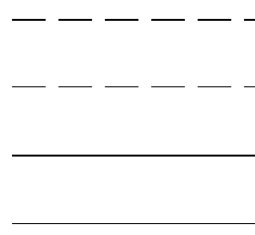


**CONTOUR ITEMS**

**EX**

**PR**

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

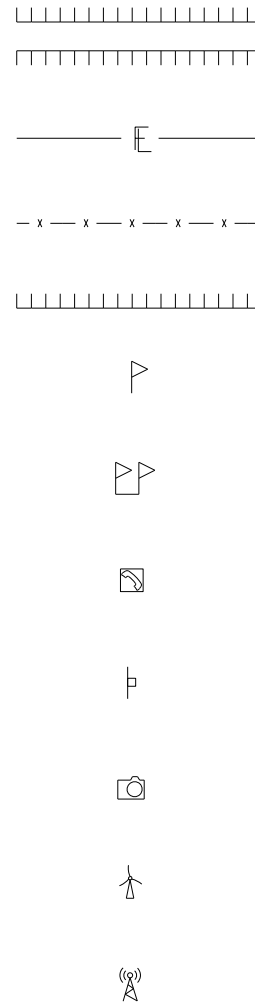


**NON-HIGHWAY IMPROVEMENT ITEMS**

**EX**

**PR**

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- ITS\* Camera
- Wind Turbine
- Cellular Tower



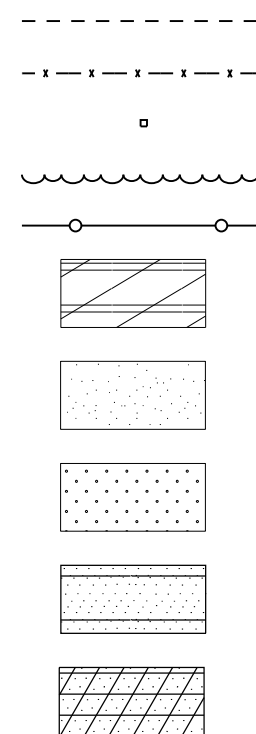
\*Intelligent Transportation Systems

**LANDSCAPING ITEMS**

**EX**

**PR**

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

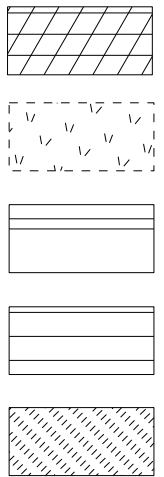


**EXISTING LANDSCAPING ITEMS (contd.)**

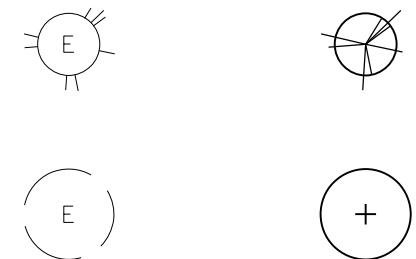
**EX**

**PR**

- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding
- Mowstake w/Sign



- Tree Trunk Protection
- Evergreen Tree
- Shade Tree

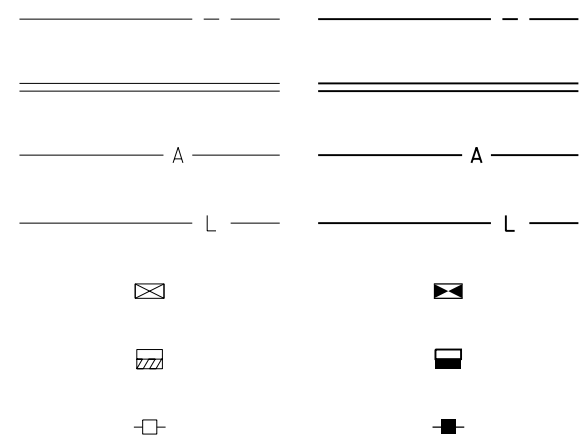


**LIGHTING**

**EX**

**PR**

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**

(Sheet 3 of 9)

**STANDARD 000001-07**

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**LIGHTING  
(contd.)**

**EX**

**PR**

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



Traffic Flow Arrow



High Mast Pole  
(Half Size)



Light Unit-1

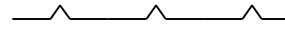


**PAVEMENT (MISC.)**

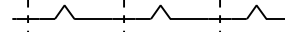
**EX**

**PR**

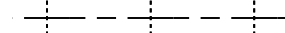
Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



**PAVEMENT MARKINGS**

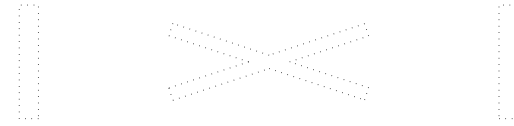
**EX**

**PR**

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



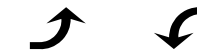
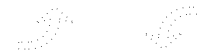
Raised Marker Amber 2 Way



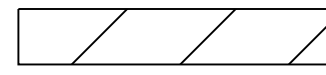
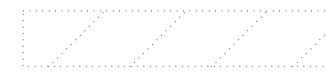
Raised Marker Crystal 1 Way



Two Way Turn Left



Shoulder Diag. Pattern



Skip-Dash White



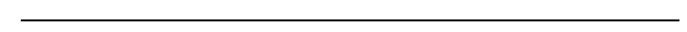
Skip-Dash Yellow



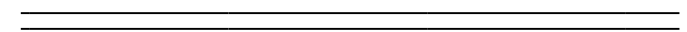
Stop Line



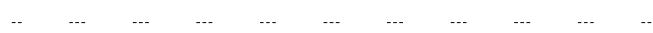
Solid Line



Double Centerline



Dotted Lines



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**STANDARD SYMBOLS,  
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(Sheet 4 of 9)

**STANDARD 000001-07**

**PAVEMENT MARKINGS**  
**(contd.)**

CL 2Ln 2Way  
RRPM 12.2 m (40') o.c.

CL 2Ln 2Way  
RRPM 80' (24.4 m) o.c.

CL Multilane Div.  
RRPM 40' (12.2 m) o.c.

CL Multilane Div.  
RRPM 80' (24.4 m) o.c.

CL Multilane Div. Dbl.  
RRPM 80' (24.4 m) o.c.

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

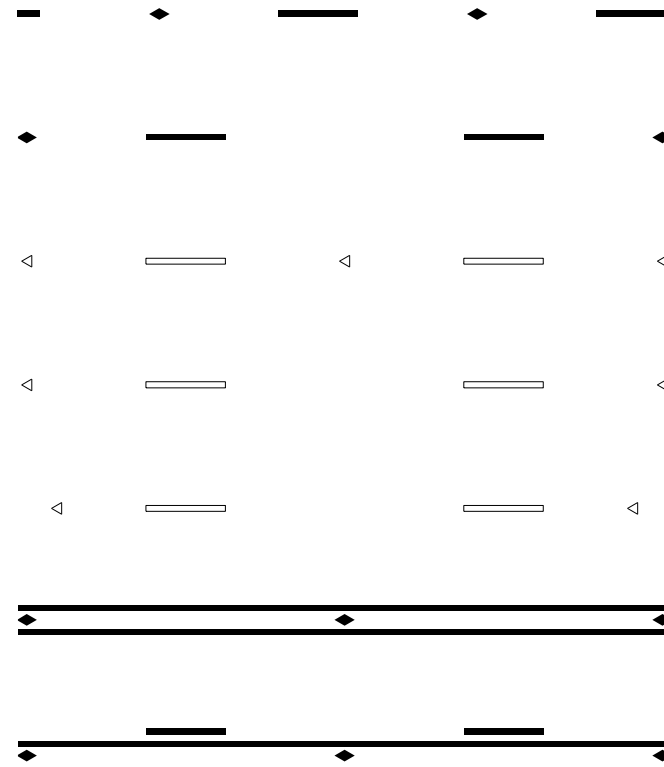
Urban Left Turn Only

Urban Right Turn Only

Urban Thru Only

**EX**

**PR**



ONLY ONLY ONLY



ONLY ONLY ONLY

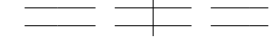


**RAILROAD ITEMS**

**EX**

**PR**

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck

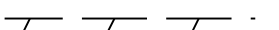


**REMOVAL ITEMS**

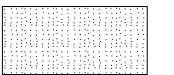
**EX**

**PR**

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



**RIGHT OF WAY ITEMS**

**EX**

**PR**

Future ROW Corner Monument



ROW Marker



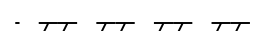
ROW Line



Easement



Temporary Easement



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 5 of 9)

**STANDARD 000001-07**

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**PAVEMENT MARKINGS**  
**(contd.)**

**EX**

**PR**

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



Rural Left Turn Arrow



Rural Right Turn Arrow



Rural Left Turn Only



ONLY



Rural Right Turn Only



ONLY



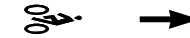
Rural Thru Only



ONLY



Bike Lane Symbol



Bike Lane Text

BIKE LANE

Bike Path Shared



Bike Shared Roadway



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**STANDARD SYMBOLS,  
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**RIGHT OF WAY ITEMS  
(contd.)**

	<u>EX</u>	<u>PR</u>
Access Control Line	—	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— x — AC —	— x — AC — x —
Excess ROW Line		— XS —

**ROADWAY PLAN  
ITEMS**

	<u>EX</u>	<u>PR</u>
Cable Barrier		
Concrete Barrier		
Edge of Pavement	---	---
Bit Shoulders, Medians and C&G Line	---	---
Aggregate Shoulder	---	---
Sidewalks, Driveways	---	---
Guardrail		
Guardrail Post	□	
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		STA. 45+00
Slope Limit Line	---	
Typical Cross-Section Line	---	---

**ROADWAY PROFILES**

	<u>EX</u>	<u>PR</u>
P.I. Indicator	△	△
Point Indicator	○	○
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side	----	----
Ditch Profile Right Side	----	----
Roadway Profile Line	----	----
Storm Sewer Profile Left Side	----	----
Storm Sewer Profile Right Side	----	----

**SIGNING ITEMS**

	<u>EX</u>	<u>PR</u>
Cone, Drum or Barricade		○
Barricade Type II		
Barricade Type III		TT
Barricade With Edge Line		
Flashing Light Sign		○
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

**SIGNING ITEMS  
(contd.)**

	<u>EX</u>	<u>PR</u>
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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**STANDARD SYMBOLS,  
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(Sheet 7 of 9)

**STANDARD 000001-07**

**SIGNING ITEMS**  
**(contd.)**

**EX**

**PR**

One Way Arrow Lrg. W1-6-(O)  
(Half Size)



Two Way Arrow Large W1-7-(O)  
(Half Size)



Detour M4-10L-(O)  
(Half Size)



Detour M4-10R-(O)  
(Half Size)



One Way Left R6-1L  
(Half Size)



One Way Right R6-1R  
(Half Size)



Left Turn Lane R3-I100L  
(Half Size)



Keep Left R4-7AL  
(Half Size)



Keep Left R4-7BL  
(Half Size)



Keep Right R4-7AR  
(Half Size)



Keep Right R4-7BR  
(Half Size)



Stop Here On Red R10-6-AL  
(Half Size)



Stop Here On Red R10-6-AR  
(Half Size)



No Left Turn R3-2  
(Half Size)



No Right Turn R3-1  
(Half Size)



Road Closed R11-2  
(Half Size)



Road Closed Thru Traffic R11-2  
(Half Size)

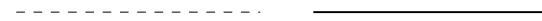


**STRUCTURES ITEMS**

**EX**

**PR**

Box Culvert Barrel



Box Culvert Headwall



Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



**TRAFFIC SHEET ITEMS**

**EX**

**PR**

Cable Number



Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



**TRAFFIC SIGNAL ITEMS**

**EX**

**PR**

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



**STANDARD SYMBOLS,  
ABBREVIATIONS  
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**TRAFFIC SIGNAL ITEMS (contd.)**

	<u>EX</u>	<u>PR</u>
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

**UNDERGROUND UTILITY ITEMS**

	<u>EX</u>	<u>PR</u>	<u>ABANDONED</u>
Cable TV			
Electric Cable			
Fiber Optic			
Gas Pipe			
Oil Pipe			
Sanitary Sewer			
Telephone Cable			
Water Pipe			

**UTILITIES ITEMS**

	<u>EX</u>	<u>PR</u>
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadman Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Monitoring Well (Gasoline)		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

**UTILITY ITEMS (contd.)**

	<u>EX</u>	<u>PR</u>
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line		

**VEGETATION ITEMS**

	<u>EX</u>	<u>PR</u>
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

**WATER FEATURE ITEMS**

	<u>EX</u>	<u>PR</u>
Stream or Drainage Ditch		
Waters Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

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APPROVED January 1, 2019  
  
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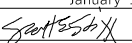
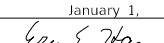
ISSUED 1-1-97

**STANDARD SYMBOLS,  
 ABBREVIATIONS  
 AND PATTERNS**

(Sheet 9 of 9)

**STANDARD 000001-07**

REINFORCEMENT BARS - ENGLISH (METRIC)																	
Bar Size	Dia. in. mm	Cross-Sectional Area sq. in. (sq. mm)	Weight lbs./ft. kg/m	SPACING, in. (mm)													
				4 (100)	4½ (115)	5 (125)	5½ (140)	6 (150)	6½ (165)	7 (175)	7½ (190)	8 (200)	8½ (215)	9 (225)	10 (250)	11 (275)	12 (300)
English (metric)				AREA OF STEEL PER FOOT (METER), sq. in. (sq. mm)													
3 (10)	0.375 (9.5)	0.110 (71)	0.376 (0.560)	0.330 (710)	0.293 (617)	0.264 (568)	0.240 (507)	0.220 (473)	0.203 (430)	0.189 (406)	0.176 (374)	0.165 (355)	0.155 (330)	0.147 (316)	0.132 (284)	0.120 (258)	0.110 (237)
4 (13)	0.500 (12.7)	0.196 (129)	0.668 (0.944)	0.588 (1290)	0.523 (1122)	0.470 (1032)	0.428 (921)	0.392 (860)	0.362 (782)	0.336 (737)	0.314 (679)	0.294 (645)	0.277 (600)	0.261 (573)	0.235 (516)	0.214 (469)	0.196 (430)
5 (16)	0.625 (15.9)	0.307 (199)	1.043 (1.552)	0.921 (1990)	0.819 (1730)	0.737 (1592)	0.670 (1421)	0.614 (1327)	0.567 (1206)	0.526 (1137)	0.491 (1047)	0.461 (995)	0.433 (926)	0.409 (884)	0.368 (796)	0.335 (724)	0.307 (663)
6 (19)	0.750 (19.1)	0.442 (284)	1.502 (2.235)	1.326 (2840)	1.179 (2470)	1.061 (2272)	0.964 (2029)	0.884 (1893)	0.816 (1721)	0.758 (1623)	0.707 (1495)	0.663 (1420)	0.624 (1321)	0.589 (1262)	0.530 (1136)	0.482 (1033)	0.442 (947)
7 (22)	0.875 (22.2)	0.601 (387)	2.044 (3.042)	1.803 (3870)	1.603 (3365)	1.442 (3096)	1.311 (2764)	1.202 (2580)	1.110 (2345)	1.030 (2211)	0.962 (2037)	0.902 (1935)	0.848 (1800)	0.801 (1720)	0.721 (1548)	0.656 (1407)	0.601 (1290)
8 (25)	1.000 (25.4)	0.785 (510)	2.670 (3.973)	2.355 (5100)	2.093 (4435)	1.884 (4080)	1.713 (3543)	1.570 (3400)	1.449 (3091)	1.346 (2914)	1.256 (2684)	1.178 (2550)	1.108 (2372)	1.047 (2267)	0.942 (2040)	0.856 (1855)	0.785 (1700)
9 (29)	1.128 (28.7)	1.000 (645)	3.400 (5.060)	3.000 (6450)	2.667 (5609)	2.400 (5160)	2.182 (4607)	2.000 (4300)	1.846 (3909)	1.714 (3686)	1.600 (3395)	1.500 (3225)	1.412 (3000)	1.333 (2867)	1.200 (2580)	1.091 (2345)	1.000 (2150)
10 (32)	1.270 (32.3)	1.267 (819)	4.303 (6.404)	3.801 (8190)	3.379 (7122)	3.041 (6552)	2.764 (5850)	2.534 (5460)	2.339 (4964)	2.172 (4680)	2.027 (4311)	1.901 (4095)	1.789 (3809)	1.689 (3640)	1.520 (3276)	1.382 (2978)	1.267 (2730)
11 (36)	1.410 (35.8)	1.561 (1006)	5.313 (7.907)	4.683 (10060)	4.163 (8748)	3.746 (8048)	3.406 (7186)	3.122 (6707)	2.882 (6097)	2.676 (5749)	2.498 (5295)	2.342 (5030)	2.204 (4679)	2.081 (4471)	1.873 (4024)	1.703 (3658)	1.561 (3353)

 Illinois Department of Transportation  
 PASSED January 1, 2009  
  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Deleted metric table. Soft converted English table.

**AREAS OF REINFORCEMENT BARS**  
  
**STANDARD 001001-02**

DECIMAL OF AN INCH AND OF A FOOT																	
A		B	A		B	A		B	A		B	A		B			
$\frac{1}{64}$	0.0052	$\frac{1}{16}$	$\frac{1}{64}$	0.171875	$2\frac{1}{16}$	$\frac{1}{32}$	0.3385	$4\frac{1}{16}$	$\frac{3}{64}$	0.5052	$6\frac{1}{16}$	$\frac{4}{64}$	0.671875	$8\frac{1}{16}$	$\frac{27}{32}$	0.8385	$10\frac{1}{16}$
	0.0104	$\frac{1}{8}$		0.1771	$2\frac{1}{8}$		0.34375	$4\frac{1}{8}$		0.5104	$6\frac{1}{8}$		0.6771	$8\frac{1}{8}$		0.84375	$10\frac{1}{8}$
	0.015625	$\frac{3}{16}$		0.1823	$2\frac{3}{16}$		0.3490	$4\frac{3}{16}$		0.515625	$6\frac{3}{16}$		0.6823	$8\frac{3}{16}$		0.8490	$10\frac{3}{16}$
	0.0208	$\frac{1}{4}$		0.1875	$2\frac{1}{4}$		0.3542	$4\frac{1}{4}$		0.5208	$6\frac{1}{4}$		0.6875	$8\frac{1}{4}$		0.8542	$10\frac{1}{4}$
$\frac{1}{32}$	0.0260	$\frac{5}{16}$	$\frac{1}{32}$	0.1927	$2\frac{5}{16}$	$\frac{2}{64}$	0.359375	$4\frac{5}{16}$	$\frac{17}{32}$	0.5260	$6\frac{5}{16}$	$\frac{45}{64}$	0.6927	$8\frac{5}{16}$	$\frac{55}{64}$	0.859375	$10\frac{5}{16}$
	0.03125	$\frac{3}{8}$		0.1979	$2\frac{3}{8}$		0.3646	$4\frac{3}{8}$		0.53125	$6\frac{3}{8}$		0.6979	$8\frac{3}{8}$		0.8646	$10\frac{3}{8}$
	0.0365	$\frac{7}{16}$		0.203125	$2\frac{7}{16}$		0.3698	$4\frac{7}{16}$		0.5365	$6\frac{7}{16}$		0.703125	$8\frac{7}{16}$		0.8698	$10\frac{7}{16}$
	0.0417	$\frac{1}{2}$		0.2083	$2\frac{1}{2}$		0.3750	$4\frac{1}{2}$		0.5417	$6\frac{1}{2}$		0.7083	$8\frac{1}{2}$		0.8750	$10\frac{1}{2}$
$\frac{3}{64}$	0.046875	$\frac{9}{16}$	$\frac{1}{32}$	0.2135	$2\frac{9}{16}$	$\frac{25}{64}$	0.3802	$4\frac{9}{16}$	$\frac{35}{64}$	0.546875	$6\frac{9}{16}$	$\frac{23}{32}$	0.7135	$8\frac{9}{16}$	$\frac{57}{64}$	0.8802	$10\frac{9}{16}$
	0.0521	$\frac{3}{8}$		0.21875	$2\frac{3}{8}$		0.3854	$4\frac{3}{8}$		0.5521	$6\frac{3}{8}$		0.71875	$8\frac{3}{8}$		0.8854	$10\frac{3}{8}$
	0.0573	$\frac{11}{16}$		0.2240	$2\frac{11}{16}$		0.390625	$4\frac{11}{16}$		0.5573	$6\frac{11}{16}$		0.7240	$8\frac{11}{16}$		0.890625	$10\frac{11}{16}$
	0.0625	$\frac{3}{4}$		0.2292	$2\frac{3}{4}$		0.3958	$4\frac{3}{4}$		0.5625	$6\frac{3}{4}$		0.7292	$8\frac{3}{4}$		0.8958	$10\frac{3}{4}$
$\frac{1}{16}$	0.0677	$\frac{13}{16}$	$\frac{1}{64}$	0.234375	$2\frac{13}{16}$	$\frac{13}{32}$	0.4010	$4\frac{13}{16}$	$\frac{9}{16}$	0.5677	$6\frac{13}{16}$	$\frac{47}{64}$	0.734375	$8\frac{13}{16}$	$\frac{29}{32}$	0.9010	$10\frac{13}{16}$
	0.0729	$\frac{7}{8}$		0.2396	$2\frac{7}{8}$		0.40625	$4\frac{7}{8}$		0.5729	$6\frac{7}{8}$		0.7396	$8\frac{7}{8}$		0.90625	$10\frac{7}{8}$
	0.078125	$\frac{15}{16}$		0.2448	$2\frac{15}{16}$		0.4115	$4\frac{15}{16}$		0.578125	$6\frac{15}{16}$		0.7448	$8\frac{15}{16}$		0.9115	$10\frac{15}{16}$
	0.0833	1		0.2500	3		0.4167	5		0.5833	7		0.7500	9		0.9167	11
$\frac{3}{32}$	0.0885	$\frac{17}{16}$	$\frac{1}{64}$	0.2552	$3\frac{17}{16}$	$\frac{27}{64}$	0.421875	$5\frac{17}{16}$	$\frac{19}{32}$	0.5885	$7\frac{17}{16}$	$\frac{49}{64}$	0.7552	$9\frac{17}{16}$	$\frac{59}{64}$	0.921875	$11\frac{17}{16}$
	0.09375	$\frac{1}{8}$		0.2604	$3\frac{1}{8}$		0.4271	$5\frac{1}{8}$		0.59375	$7\frac{1}{8}$		0.7604	$9\frac{1}{8}$		0.9271	$11\frac{1}{8}$
	0.0990	$\frac{3}{16}$		0.265625	$3\frac{3}{16}$		0.4323	$5\frac{3}{16}$		0.5990	$7\frac{3}{16}$		0.765625	$9\frac{3}{16}$		0.9323	$11\frac{3}{16}$
	0.1042	$\frac{1}{4}$		0.2708	$3\frac{1}{4}$		0.4375	$5\frac{1}{4}$		0.6042	$7\frac{1}{4}$		0.7708	$9\frac{1}{4}$		0.9375	$11\frac{1}{4}$
$\frac{7}{64}$	0.109375	$\frac{5}{16}$	$\frac{9}{32}$	0.2760	$3\frac{5}{16}$	$\frac{7}{16}$	0.4427	$5\frac{5}{16}$	$\frac{39}{64}$	0.609375	$7\frac{5}{16}$	$\frac{25}{32}$	0.7760	$9\frac{5}{16}$	$\frac{15}{16}$	0.9427	$11\frac{5}{16}$
	0.1146	$\frac{1}{8}$		0.28125	$3\frac{1}{8}$		0.4479	$5\frac{1}{8}$		0.6146	$7\frac{1}{8}$		0.78125	$9\frac{1}{8}$		0.9479	$11\frac{1}{8}$
	0.1198	$\frac{3}{16}$		0.2865	$3\frac{3}{16}$		0.453125	$5\frac{3}{16}$		0.6198	$7\frac{3}{16}$		0.7865	$9\frac{3}{16}$		0.953125	$11\frac{3}{16}$
	0.1250	$\frac{1}{2}$		0.2917	$3\frac{1}{2}$		0.4583	$5\frac{1}{2}$		0.6250	$7\frac{1}{2}$		0.7917	$9\frac{1}{2}$		0.9583	$11\frac{1}{2}$
$\frac{1}{8}$	0.1302	$\frac{19}{16}$	$\frac{1}{64}$	0.296875	$3\frac{19}{16}$	$\frac{29}{64}$	0.4635	$5\frac{19}{16}$	$\frac{5}{8}$	0.6302	$7\frac{19}{16}$	$\frac{51}{64}$	0.796875	$9\frac{19}{16}$	$\frac{61}{64}$	0.9635	$11\frac{19}{16}$
	0.1354	$\frac{1}{8}$		0.3021	$3\frac{1}{8}$		0.46875	$5\frac{1}{8}$		0.6354	$7\frac{1}{8}$		0.8021	$9\frac{1}{8}$		0.96875	$11\frac{1}{8}$
	0.140625	$\frac{3}{16}$		0.3073	$3\frac{3}{16}$		0.4740	$5\frac{3}{16}$		0.640625	$7\frac{3}{16}$		0.8073	$9\frac{3}{16}$		0.9740	$11\frac{3}{16}$
	0.1458	$\frac{1}{4}$		0.3125	$3\frac{1}{4}$		0.4792	$5\frac{1}{4}$		0.6458	$7\frac{1}{4}$		0.8125	$9\frac{1}{4}$		0.9792	$11\frac{1}{4}$
$\frac{5}{64}$	0.1510	$\frac{11}{16}$	$\frac{1}{32}$	0.3177	$3\frac{11}{16}$	$\frac{19}{32}$	0.484375	$5\frac{11}{16}$	$\frac{4}{64}$	0.6510	$7\frac{11}{16}$	$\frac{13}{16}$	0.8177	$9\frac{11}{16}$	$\frac{31}{32}$	0.984375	$11\frac{11}{16}$
	0.15625	$\frac{1}{8}$		0.3229	$3\frac{1}{8}$		0.4896	$5\frac{1}{8}$		0.65625	$7\frac{1}{8}$		0.8229	$9\frac{1}{8}$		0.9896	$11\frac{1}{8}$
	0.1615	$\frac{3}{16}$		0.328125	$3\frac{3}{16}$		0.4948	$5\frac{3}{16}$		0.6615	$7\frac{3}{16}$		0.828125	$9\frac{3}{16}$		0.9948	$11\frac{3}{16}$
	0.1667	2		0.3333	4		0.5000	6		0.6667	8		0.8333	10		0.9167	12

A = Fractions of Inch or Foot  
 B = Inch Equivalents to Foot Fractions

DATE	REVISIONS
1-1-97	New Standard.

## DECIMAL OF AN INCH AND OF A FOOT

STANDARD 001006

Illinois Department of Transportation

PASSED January 1, 1997

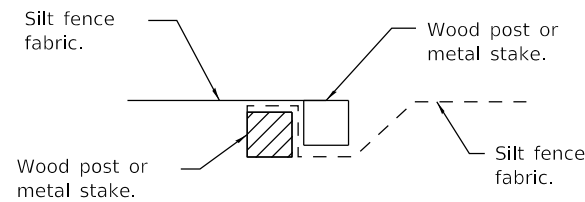
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 1997

ENGINEER OF DESIGN AND ENVIRONMENT

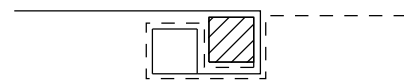
ISSUED 1-1-97





Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

**STEP 1**

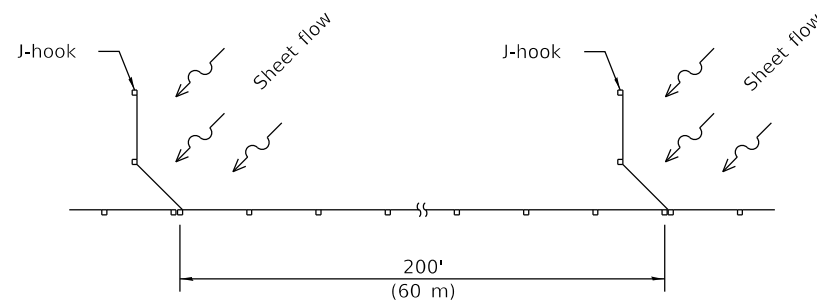


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

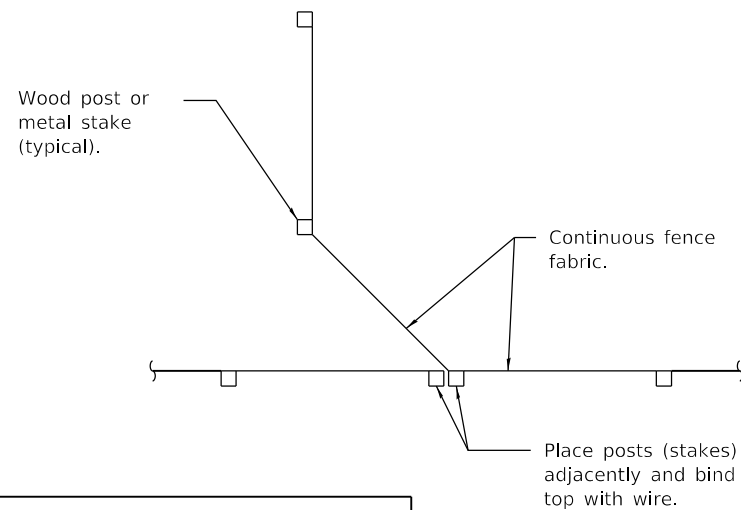
**STEP 2**

**ATTACHING TWO SILT FILTER FENCES**

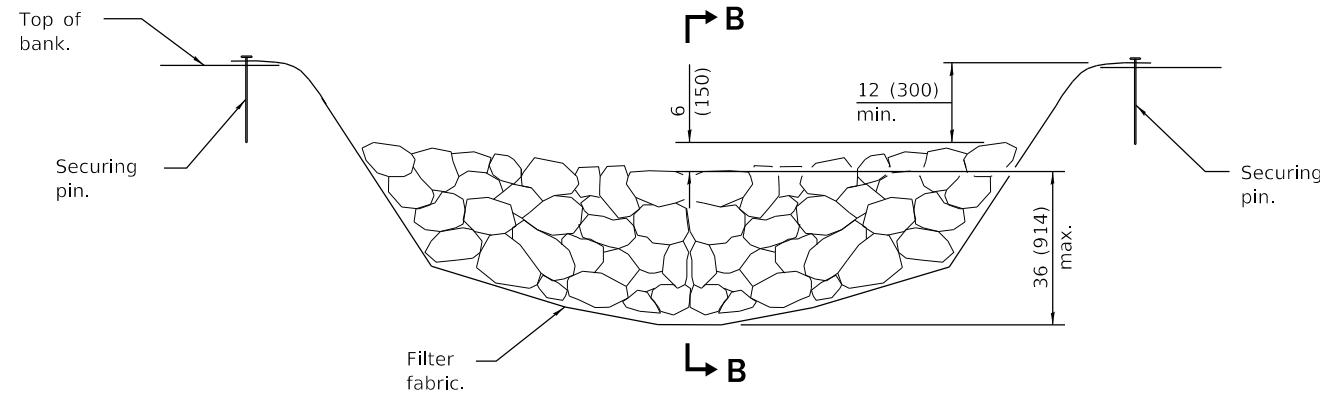
(Not applicable for J-hooks)



**SILT FILTER J-HOOK PLACEMENT**

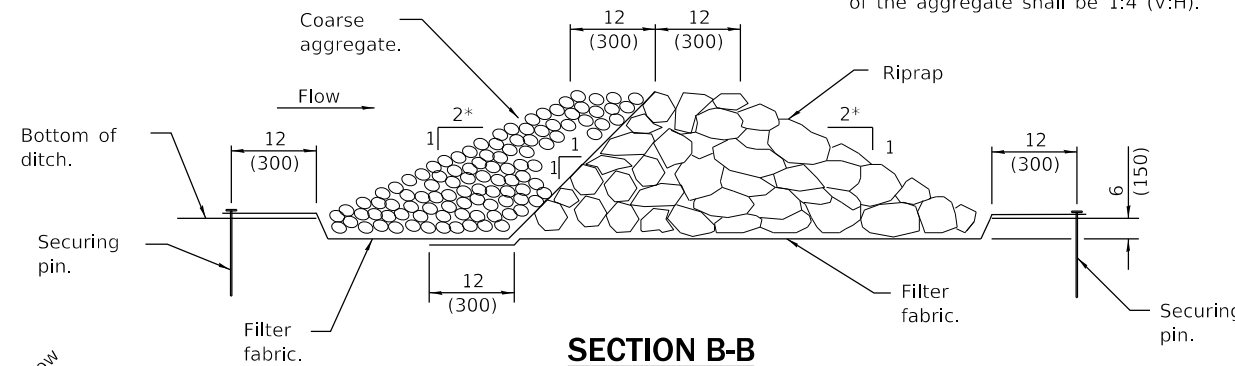


**J-HOOK**



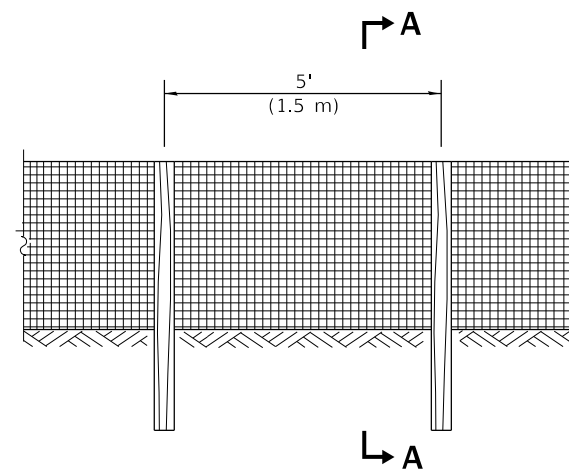
**ELEVATION**

\* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



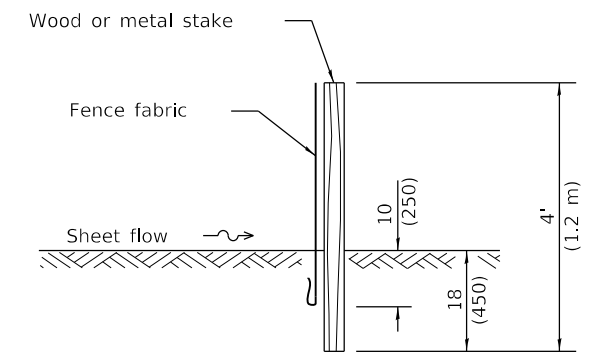
**SECTION B-B**

**AGGREGATE DITCH CHECK**

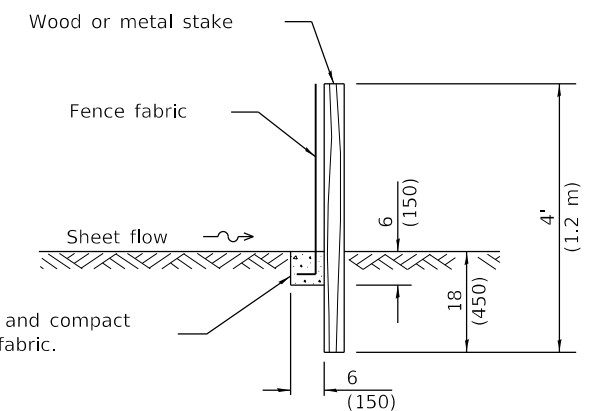


**ELEVATION**

**SILT FILTER FENCE AS A PERIMETER EROSION BARRIER**



**SLICE METHOD**



**TRENCH METHOD**

**SECTION A-A**

Excavate, backfill and compact trench to secure fabric.

**GENERAL NOTES**

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2013  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

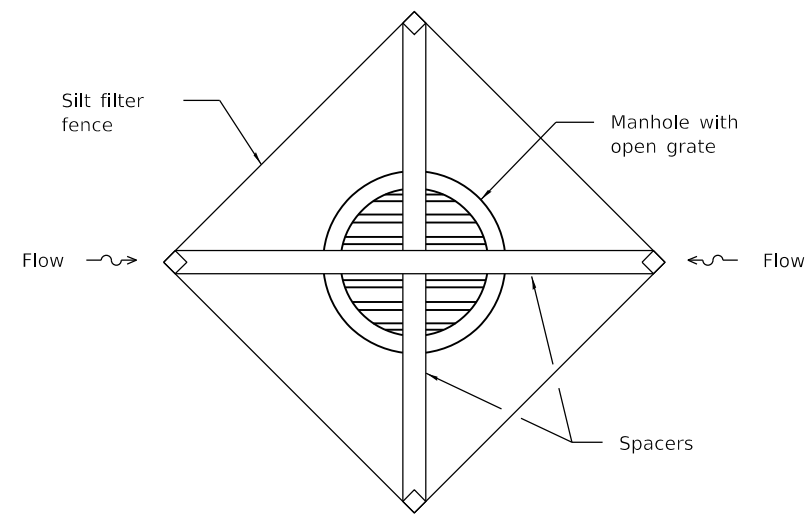
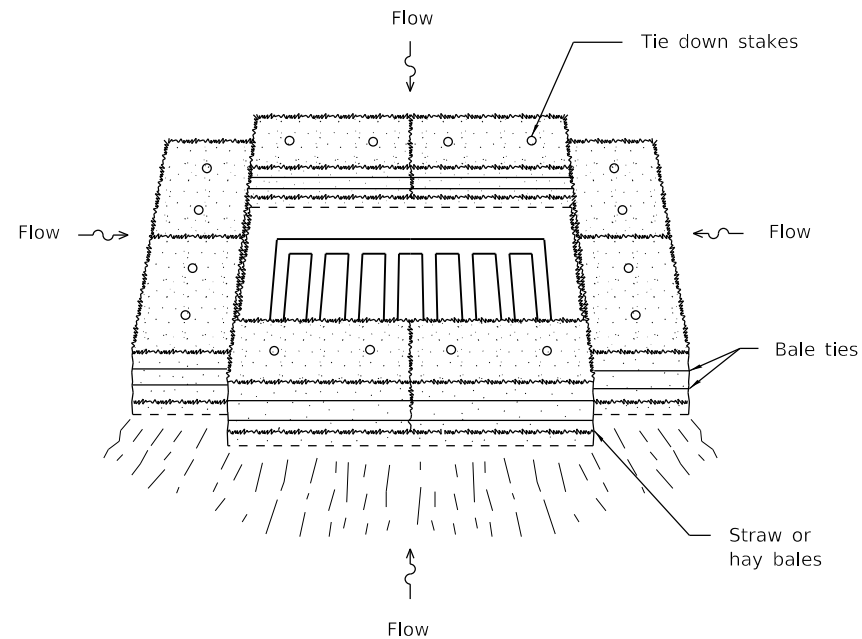
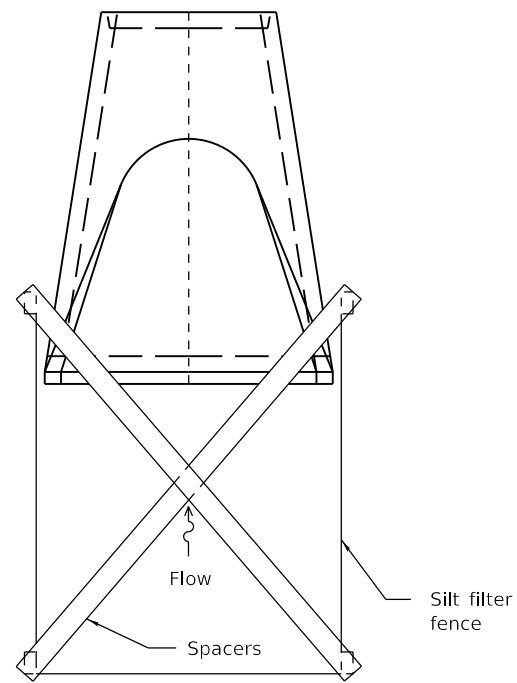
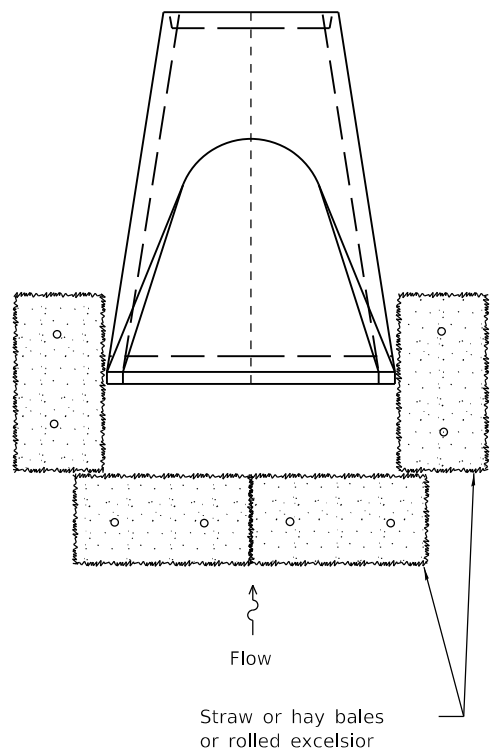
ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Corrected notation for flowline (f <sub>l</sub> ) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

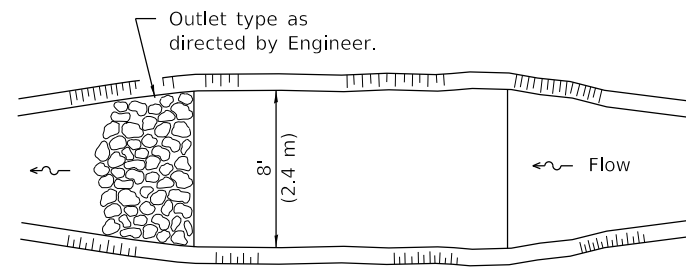
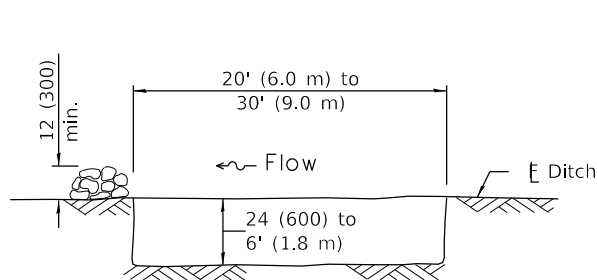
**TEMPORARY EROSION CONTROL SYSTEMS**

(Sheet 1 of 2)

**STANDARD 280001-07**



**INLET AND PIPE PROTECTION**



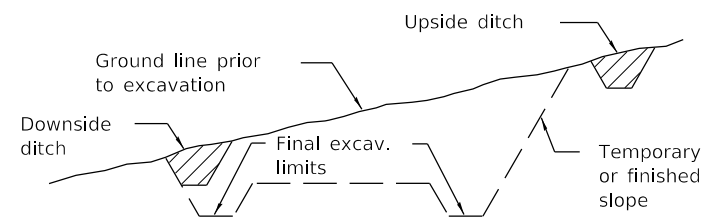
The performance of the basin will improve if put into a series.

The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

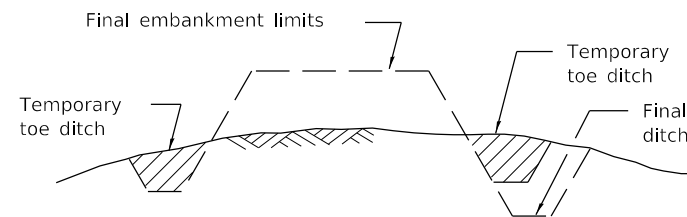
**ELEVATION**

**PLAN**

**SEDIMENT BASIN**



**TYPICAL CUT CROSS-SECTION**



**TYPICAL FILL CROSS-SECTION**

**TEMPORARY DITCHES FOR CUT & FILL SECTIONS**

Illinois Department of Transportation

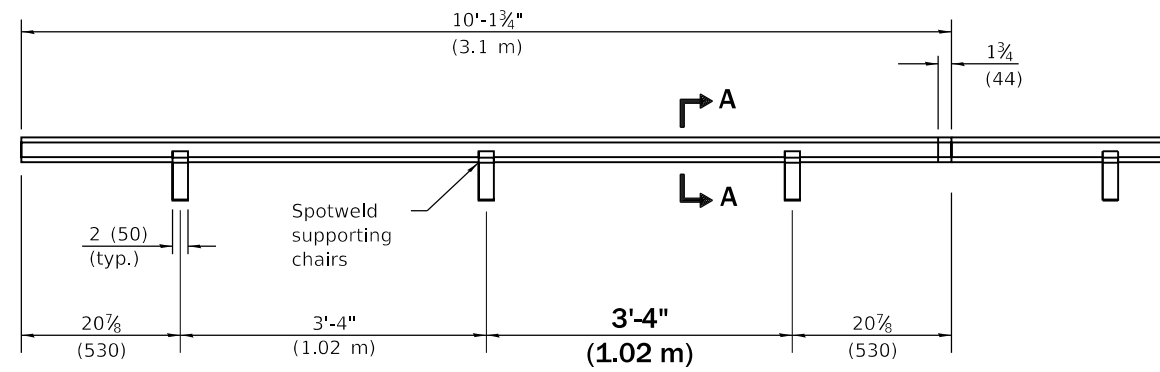
PASSED January 1, 2013  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

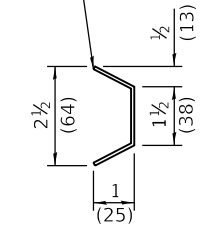
**TEMPORARY EROSION CONTROL SYSTEMS**  
 (Sheet 2 of 2)

**STANDARD 280001-07**

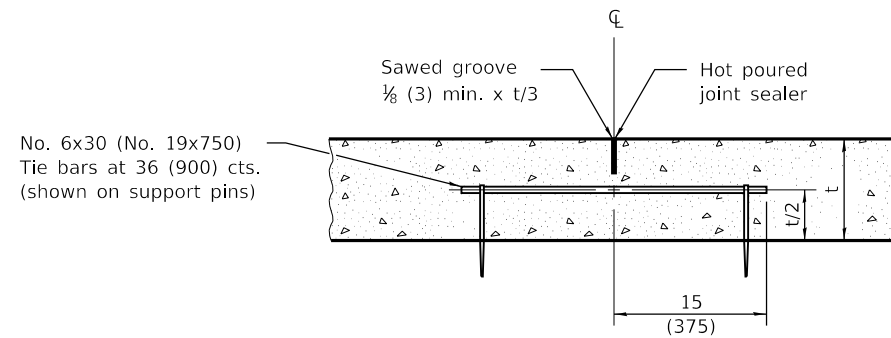


**TYPE C METAL JOINT**

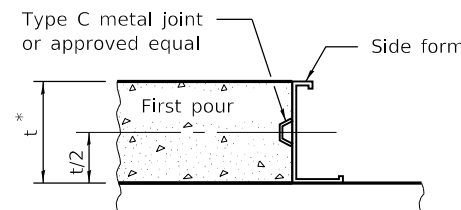
Sheet steel of suitable thickness to form keyway as detailed or approved equal.



**SECTION A-A**

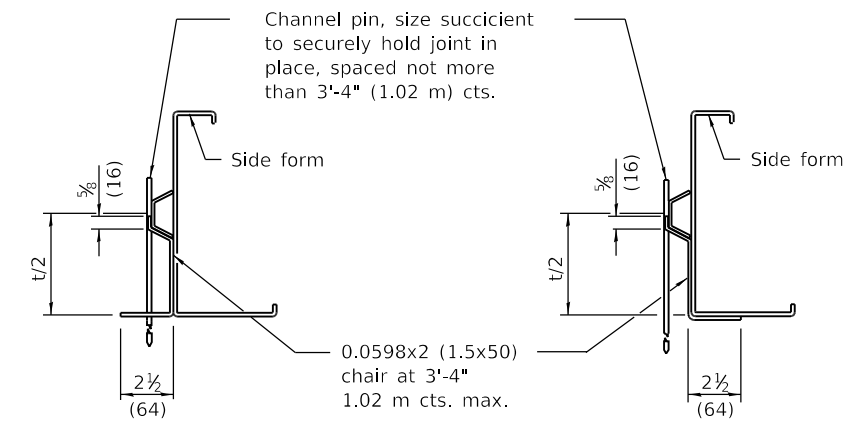


**LONGITUDINAL SAWED JOINT**



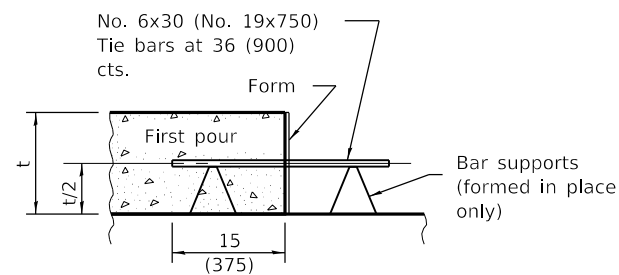
**LONGITUDINAL KEYED JOINT**

\* 8 (203) min. pavement thickness for keyed joints.



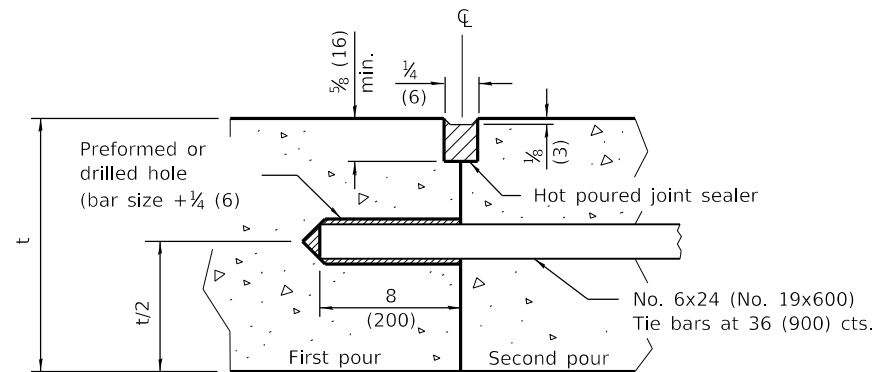
**SUPPORTING CHAIR ALTERNATE**

**SUPPORTING CHAIR ALTERNATE**



**LONGITUDINAL CONSTRUCTION JOINT**

(TIE BAR FORMED IN PLACE OR MECHANICALLY INSERTED)



**LONGITUDINAL CONSTRUCTION JOINT**

(TIE BAR GROUTED IN PLACE)

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2018  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018  
*Marcus M. Beck*  
 ENGINEER OF DESIGN AND ENVIRONMENT

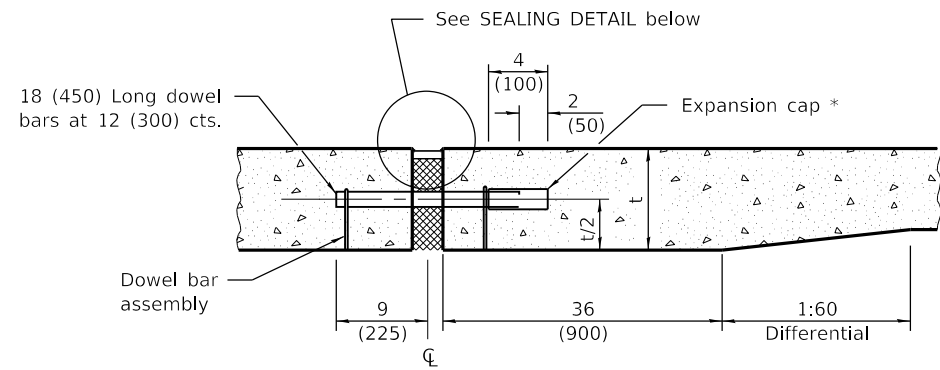
ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Changed tie bar spacing to 36 (900) cts. Revised DOWEL BAR TABEL.
1-1-08	Switched units to English (metric).

**PAVEMENT JOINTS**

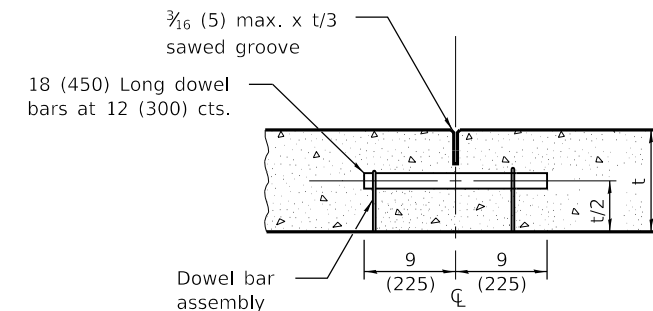
(Sheet 1 of 2)

**STANDARD 420001-09**

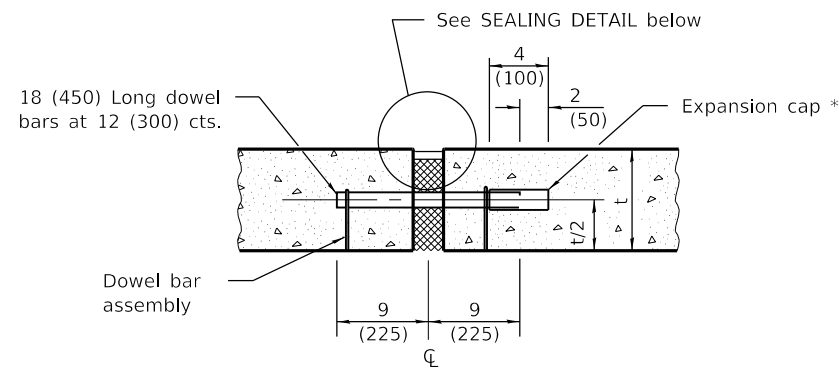


**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH UNEQUAL THICKNESS)

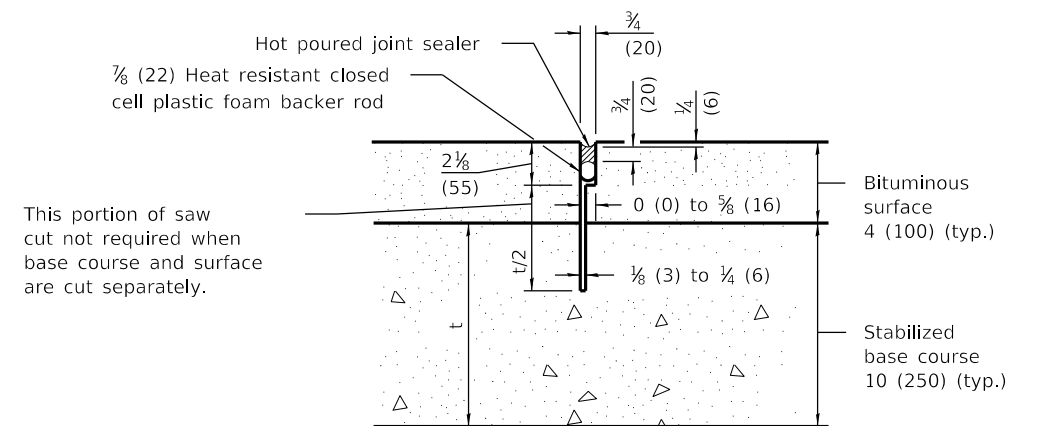
\* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



**TRANSVERSE CONTRACTION JOINT**

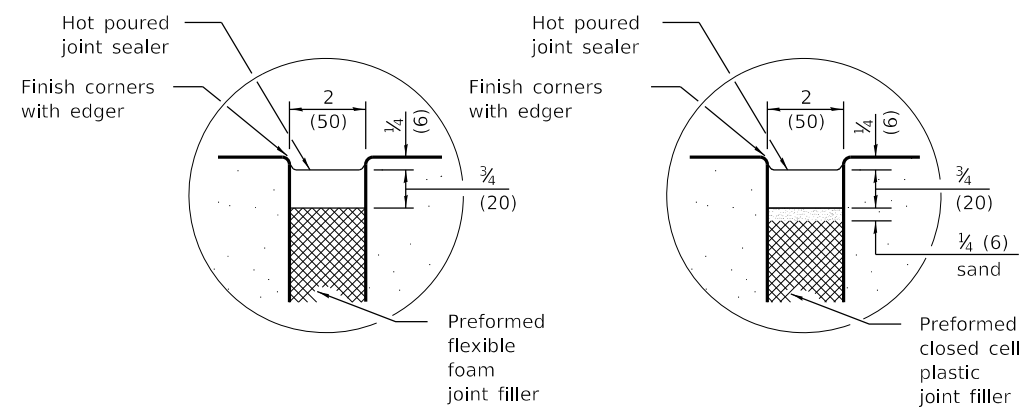


**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH EQUAL THICKNESS)



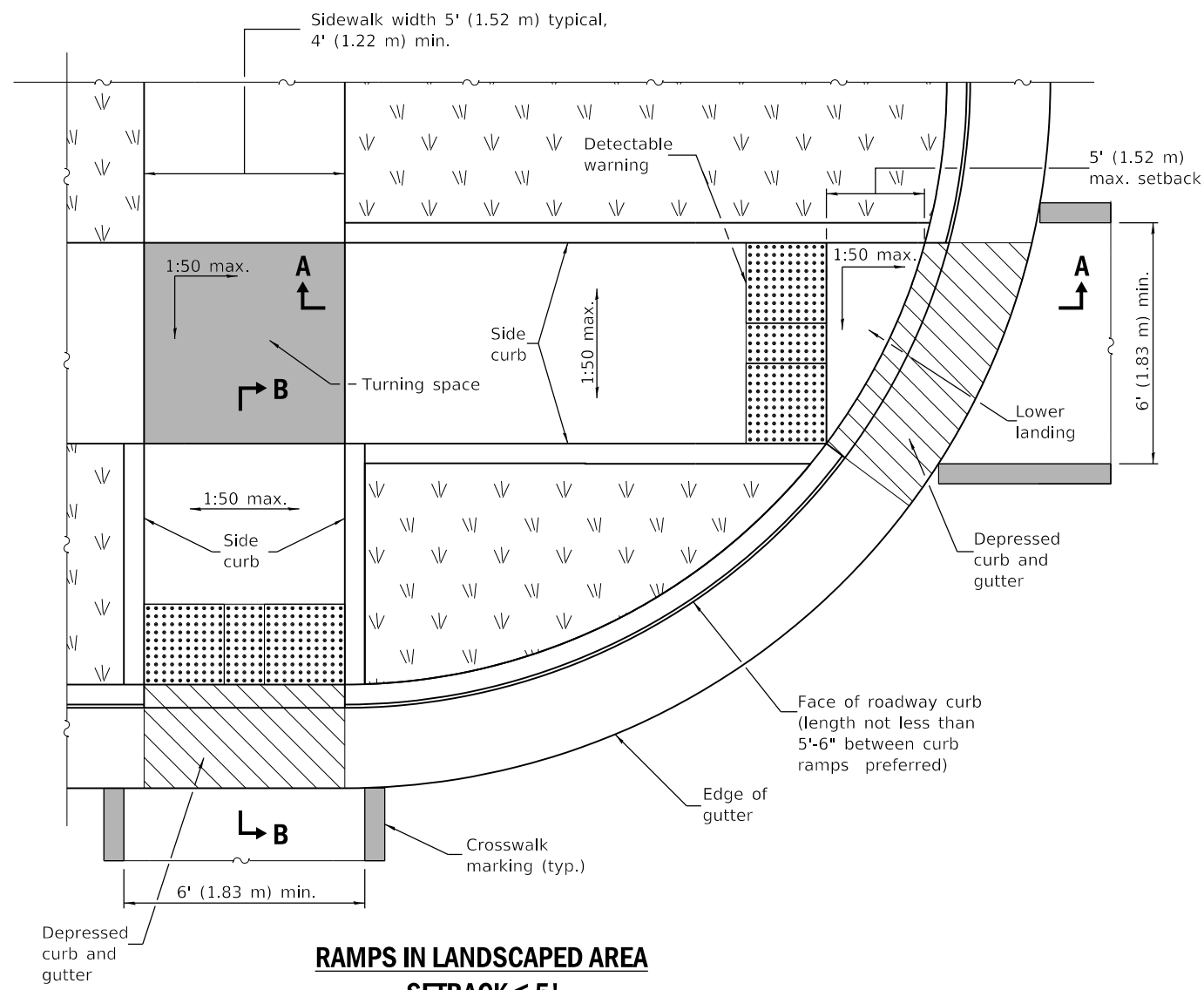
This portion of saw cut not required when base course and surface are cut separately.

**TRANSVERSE CONTRACTION JOINT**  
(FOR CAM, CFA AND LFA BASE COURSE MIXTURES)

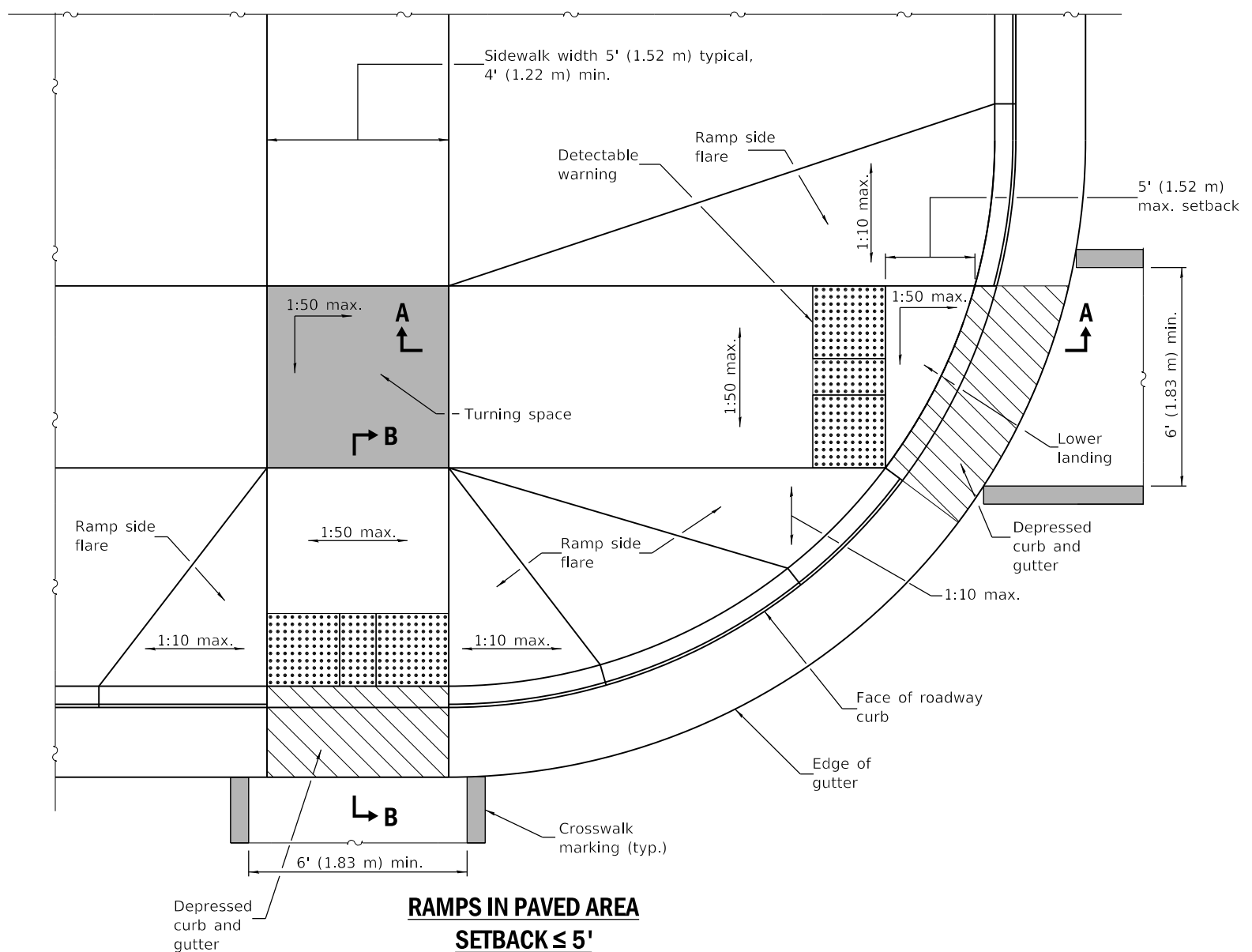


**SEALING DETAIL**

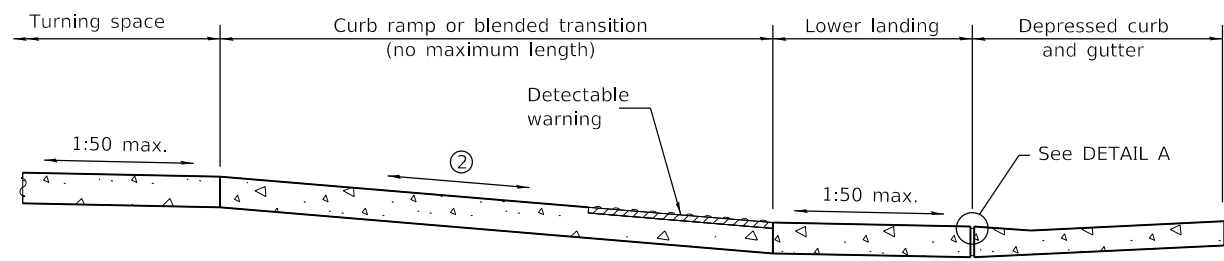
DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
10 (250) or greater	1 1/2 (38)
8 (200) thru 9.99 (249)	1 1/4 (32)
Less than 8 (200)	1 (25)



**RAMPS IN LANDSCAPED AREA  
SETBACK ≤ 5'**

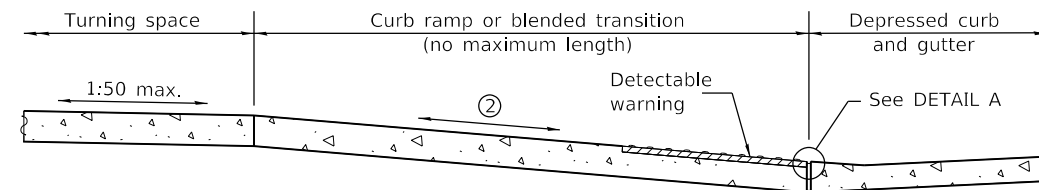


**RAMPS IN PAVED AREA  
SETBACK ≤ 5'**



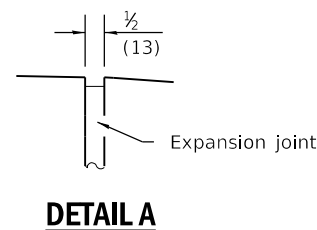
**SECTION A-A**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

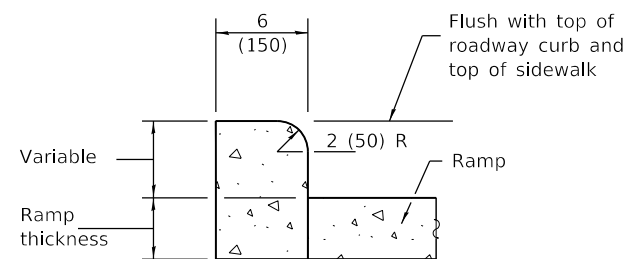


**SECTION B-B**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**DETAIL A**



**SIDE CURB DETAIL**

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*John E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

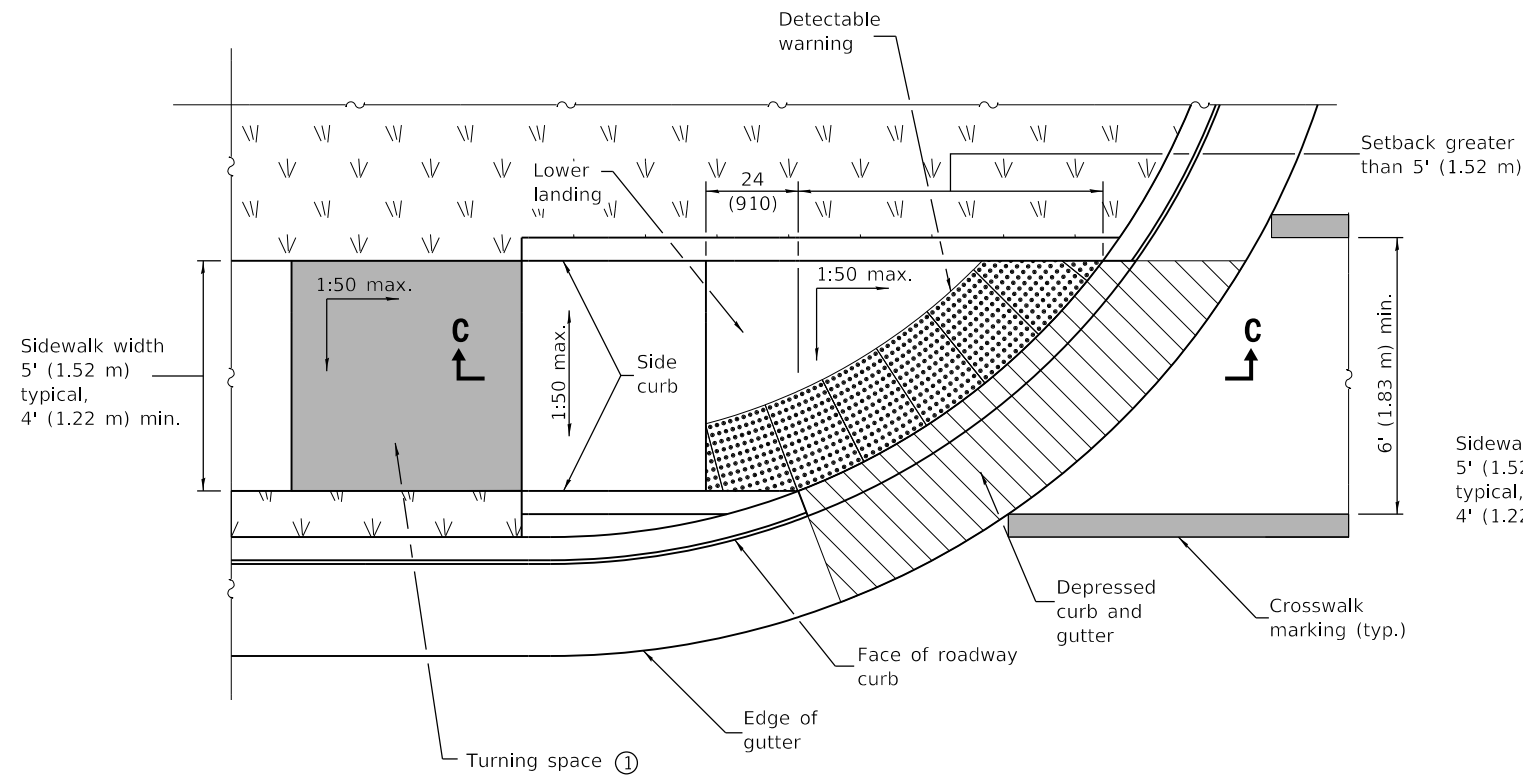
ISSUED 1-1-97

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added "Blended transitions" and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at turning spaces and lower landings.

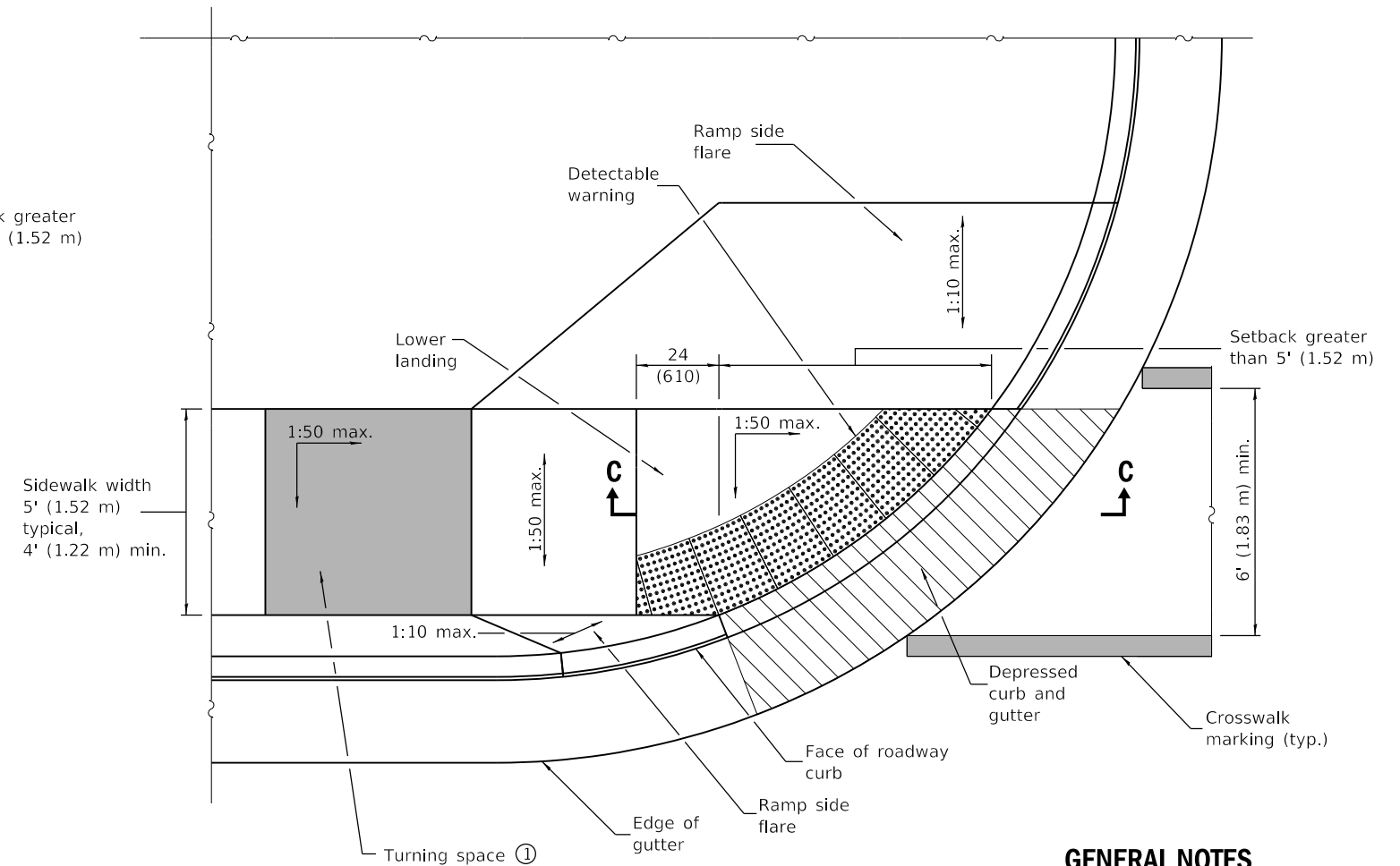
See Sheet 2 for GENERAL NOTES.

**PERPENDICULAR CURB RAMPS  
FOR SIDEWALKS**  
(Sheet 1 of 2)

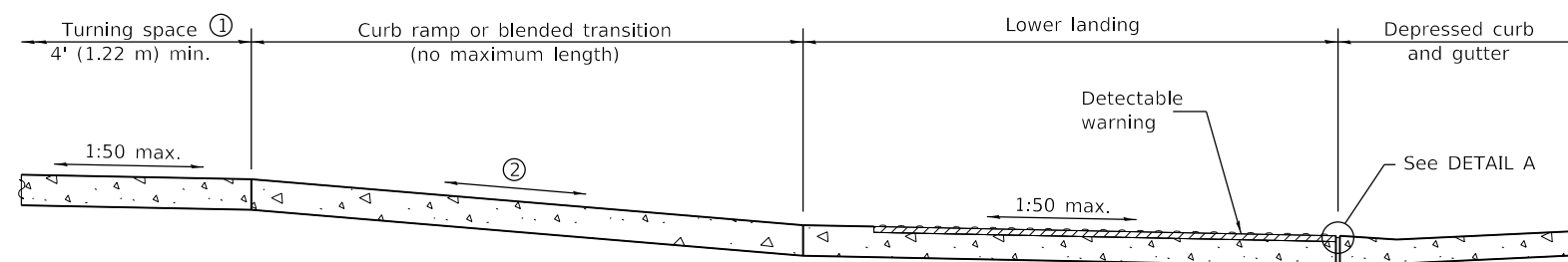
**STANDARD 424001-11**



**RAMP IN LANDSCAPED AREA  
SETBACK > 5'**



**RAMP IN PAVED AREA  
SETBACK > 5'**



**SECTION C-C**

- ① This turning space not required for blended transitions.
- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

**PERPENDICULAR CURB RAMPS  
FOR SIDEWALKS**

(Sheet 2 of 2)

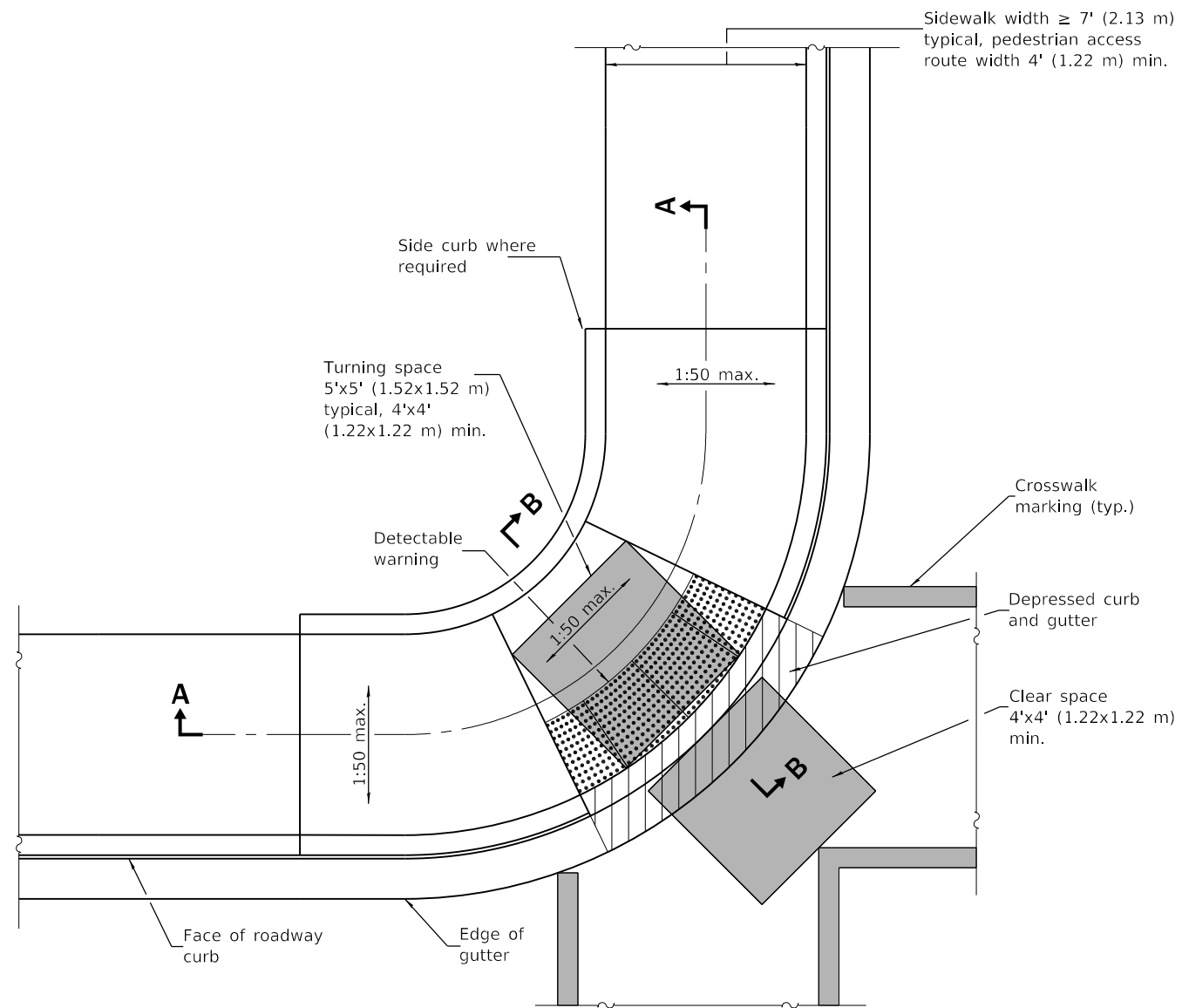
**STANDARD 424001-11**

Illinois Department of Transportation

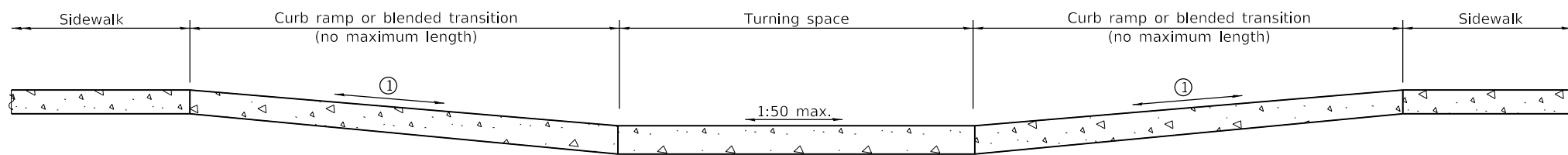
PASSED January 1, 2019  
*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

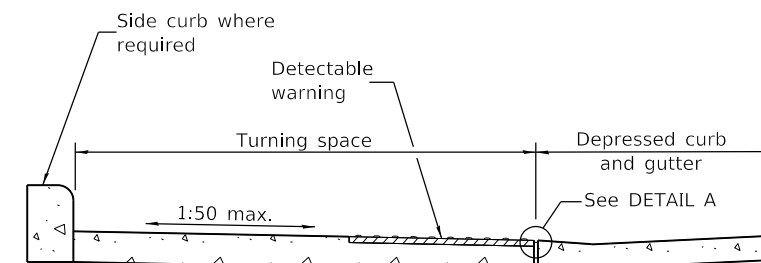


**CORNER PARALLEL CURB RAMP**

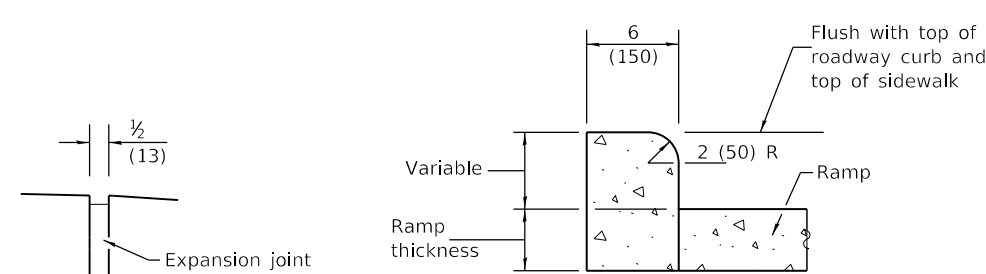


**SECTION A-A**

① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**SECTION B-B**



**DETAIL A**

**SIDE CURB DETAIL**

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transition and detectable warning tolerances.
1-1-17	Revised sidewalk width to include 24 (610) buffer behind curb.

**CORNER PARALLEL CURB RAMPS FOR SIDEWALKS**

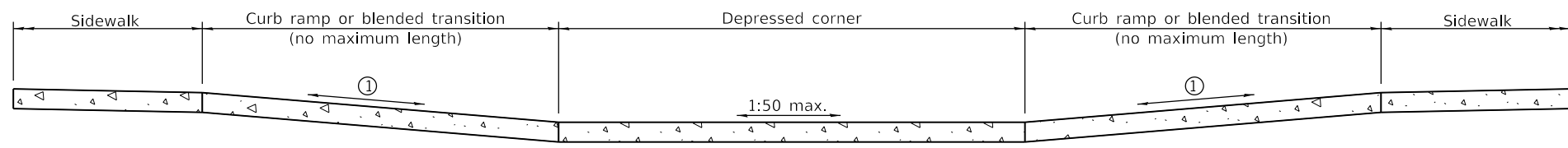
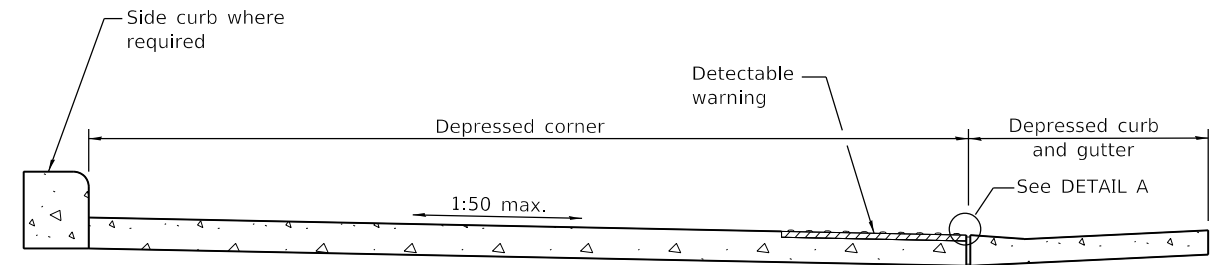
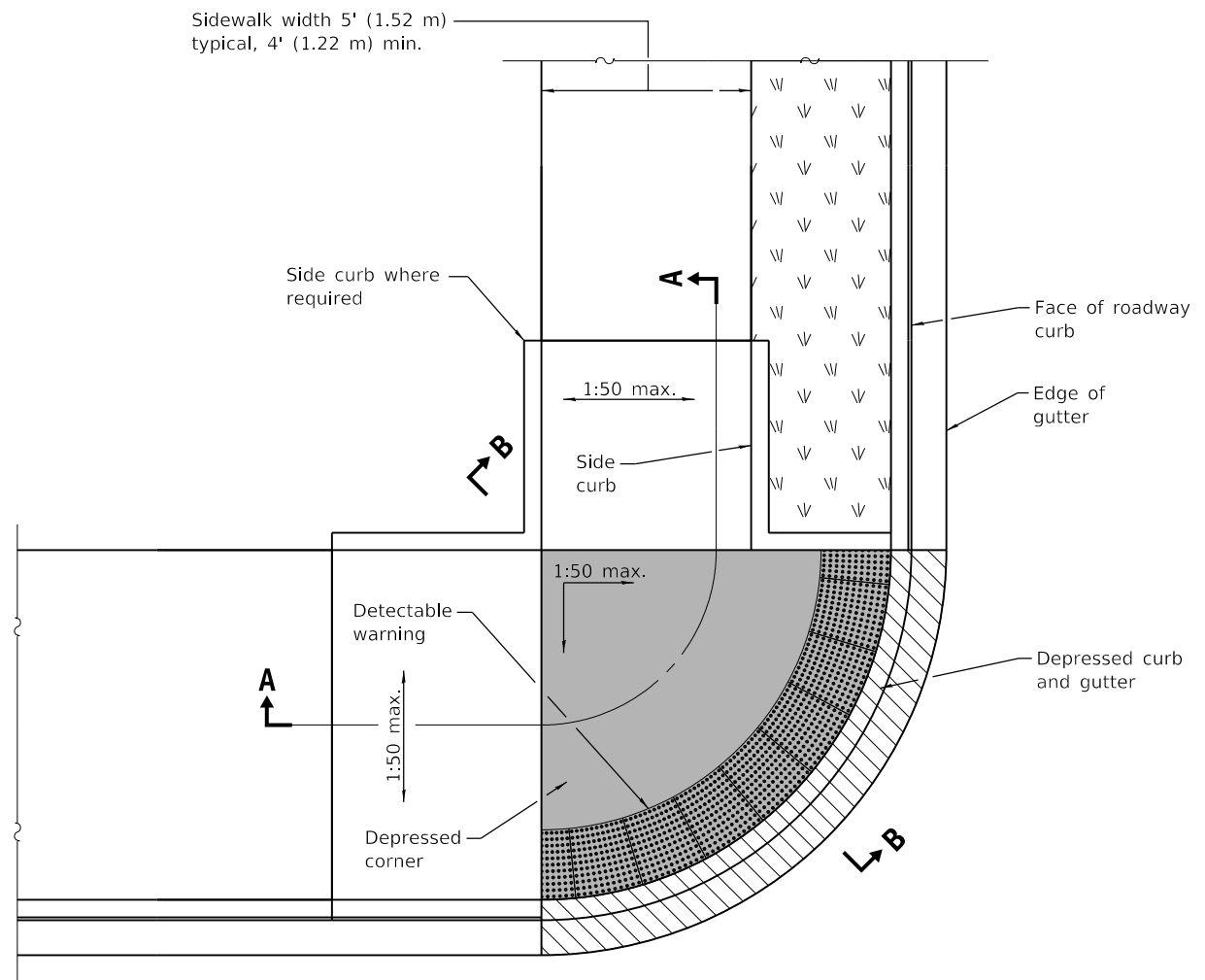
**STANDARD 424011-04**

Illinois Department of Transportation

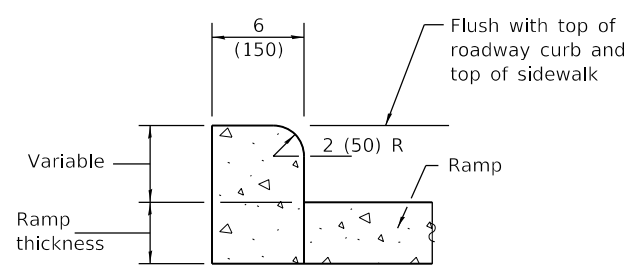
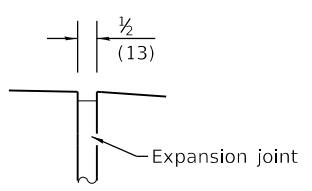
PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*John E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12



① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**GENERAL NOTES**

This standard shall only be used for curb radii of 6 ft. (1.83 m) or greater.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal tolerances but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Removed upper landings, added blended transition and detectable warning tolerances.
1-1-18	Omitted diagonal slope at turning spaces and upper landings.

**DEPRESSED CORNER FOR SIDEWALKS**

**STANDARD 424021-05**

Illinois Department of Transportation

PASSED January 1, 2019

ENGINEER OF POLICY AND PROCEDURES

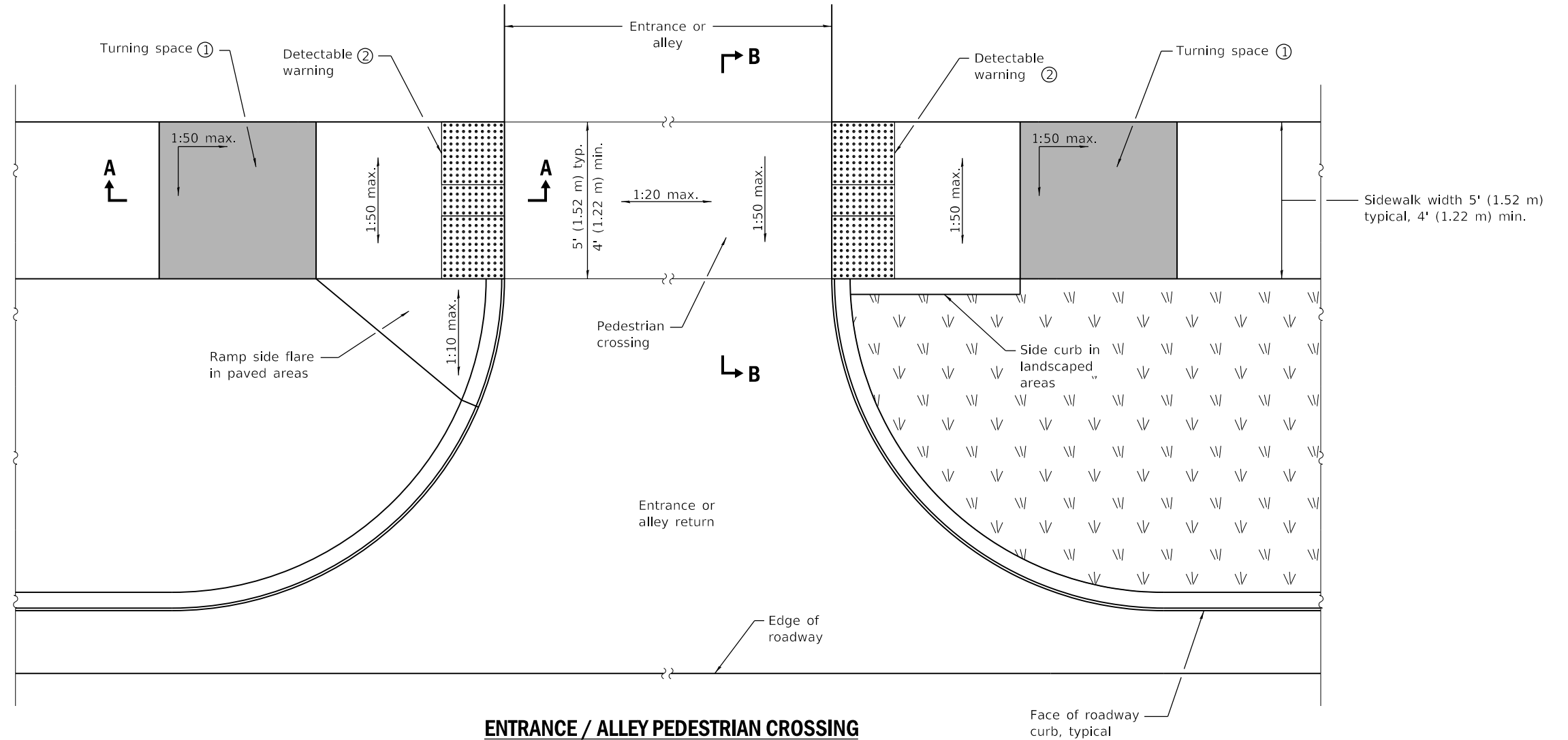
APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

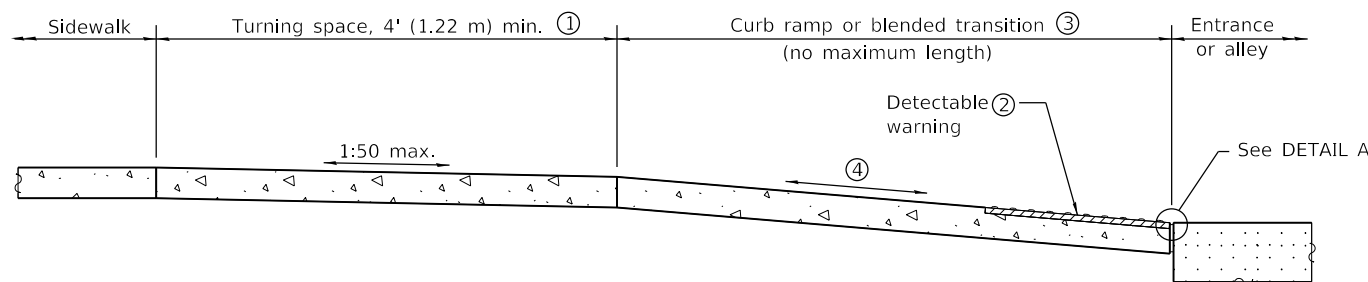
ISSUED 1-1-12



- ② Detectable warning shall only be installed at entrances/alleys with permanent traffic control devices (i.e. stop signs, signals).
- ③ Where possible, maintain the grade of the sidewalk across the entrance/alley to avoid the need for ramps and turning spaces.

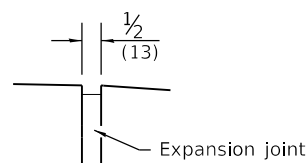


**ENTRANCE / ALLEY PEDESTRIAN CROSSING**

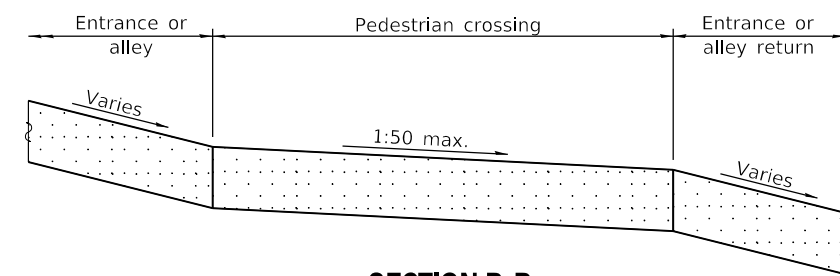


**SECTION A-A**

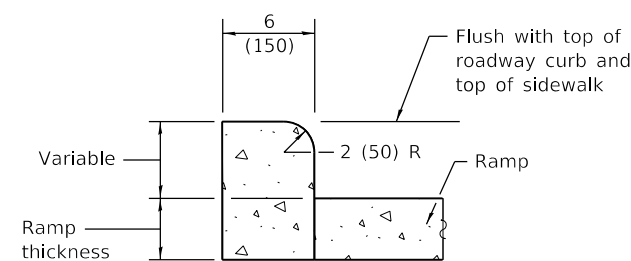
- ① Turning space not required for blended transitions.
- ④ The running slope of a curb ramp shall be 1:20 min and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**DETAIL A**



**SECTION B-B**



**SIDE CURB DETAIL**

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Added blended transitions and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at upper landings.

**ENTRANCE / ALLEY PEDESTRIAN CROSSINGS**

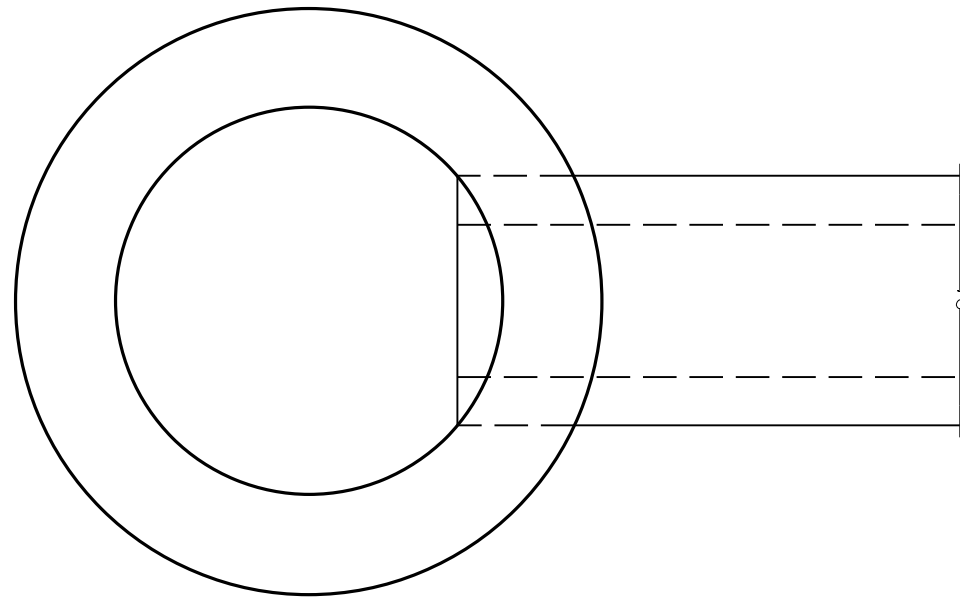
**STANDARD 424026-03**

Illinois Department of Transportation

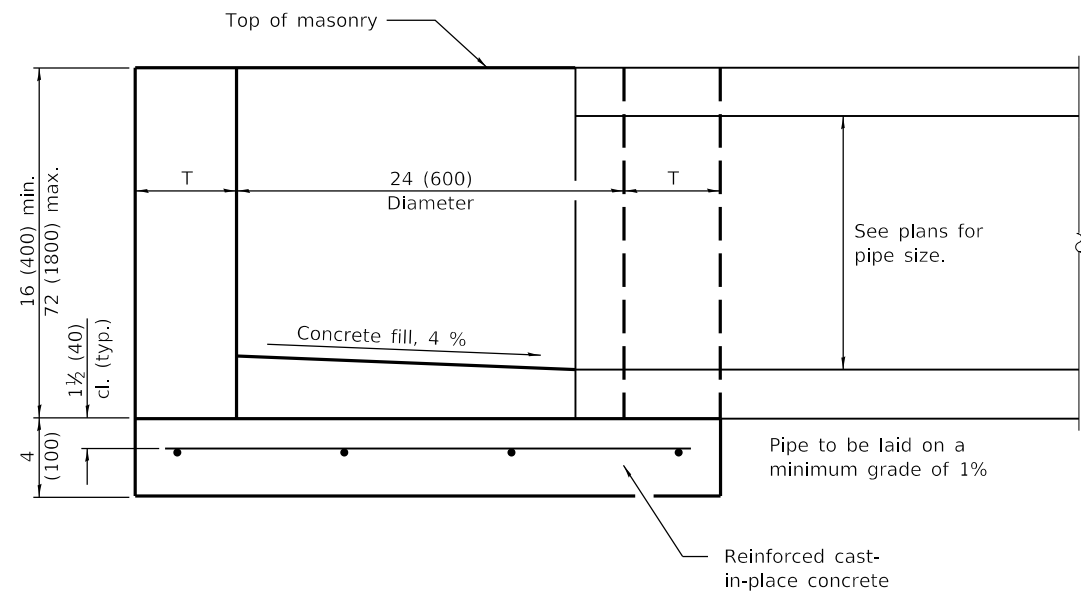
PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*Joe E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

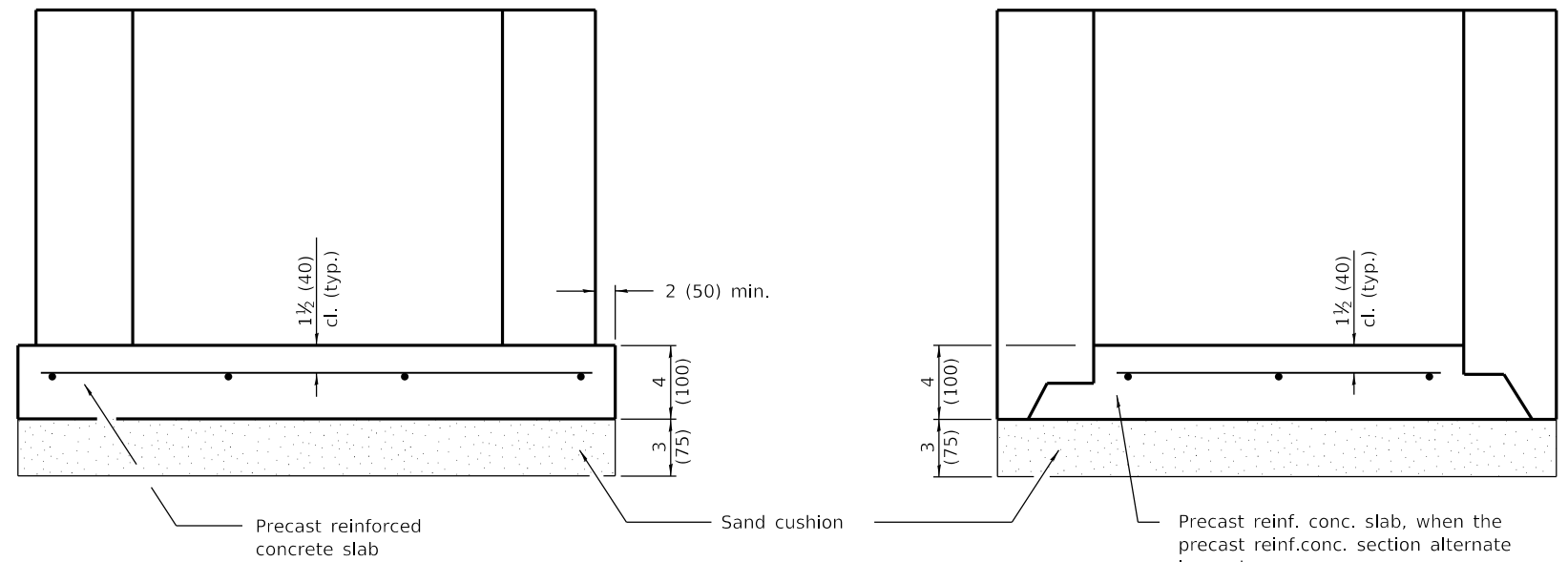


**PLAN**



**ELEVATION**

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



**ALTERNATE METHODS**

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

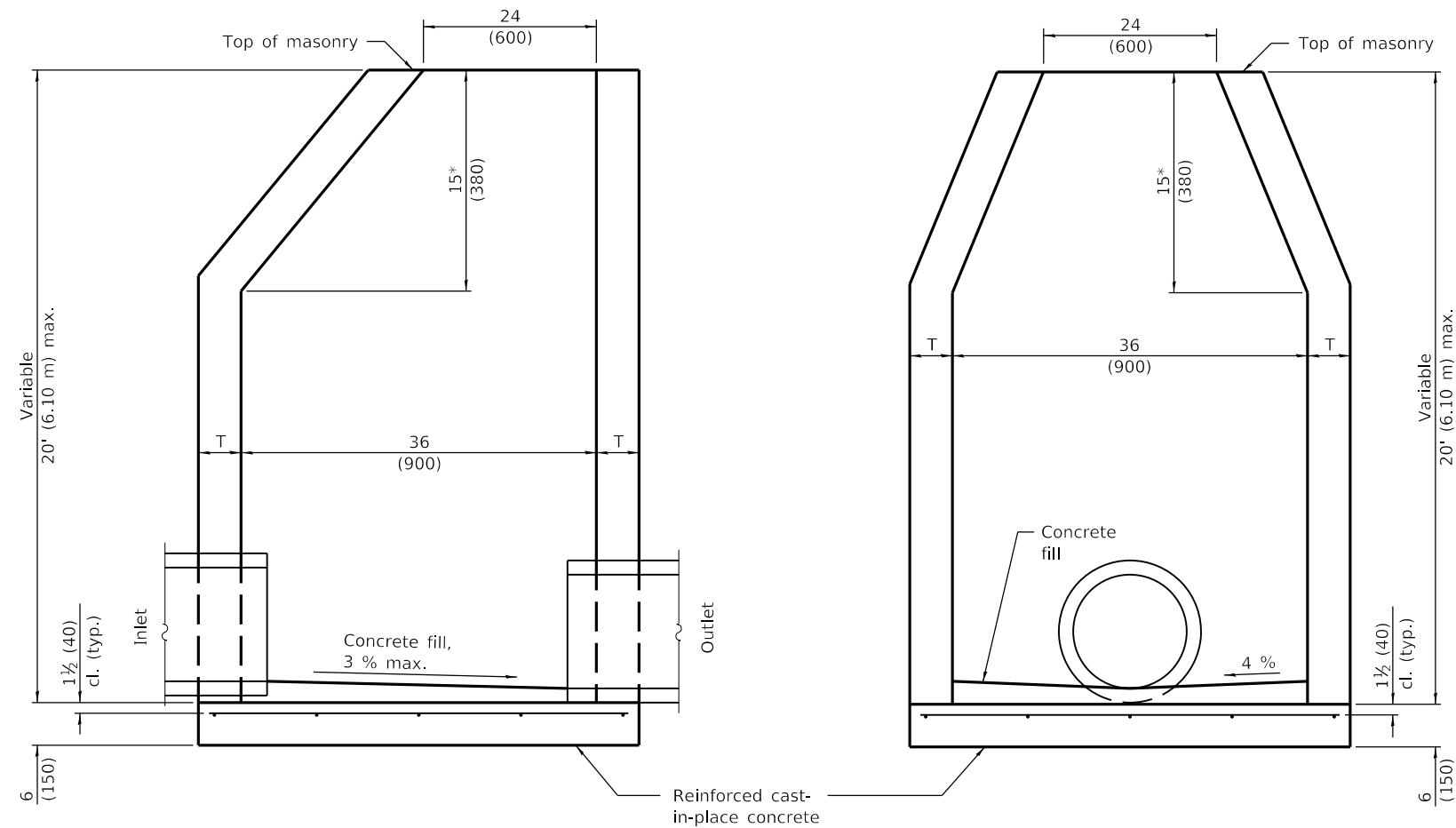
DATE	REVISIONS
1-1-14	Increased height to 72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

**INLET - TYPE A**

**STANDARD 602301-04**

Illinois Department of Transportation  
 PASSED January 1, 2014  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2014  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 ISSUED 1-1-97

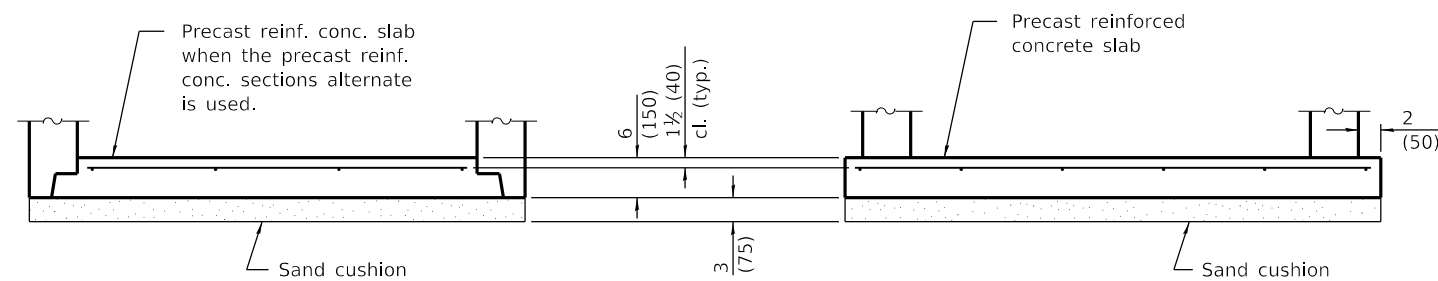
\* For precast reinforced concrete sections, this dimension may vary from the dimension given to plus 6 (150).



**ELEVATION - ECCENTRIC**

**ELEVATION - CONCENTRIC**

ALTERNATE MATERIALS FOR WALLS	T (min.)
Concrete Masonry Unit	5 (125)
Brick Masonry	8 (200)
Precast Reinforced Concrete Section	3 (75)
Cast-in-Place Concrete	6 (150)



**ALTERNATE BOTTOM SLAB**

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft. (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to
	English (metric).

**INLET - TYPE B**

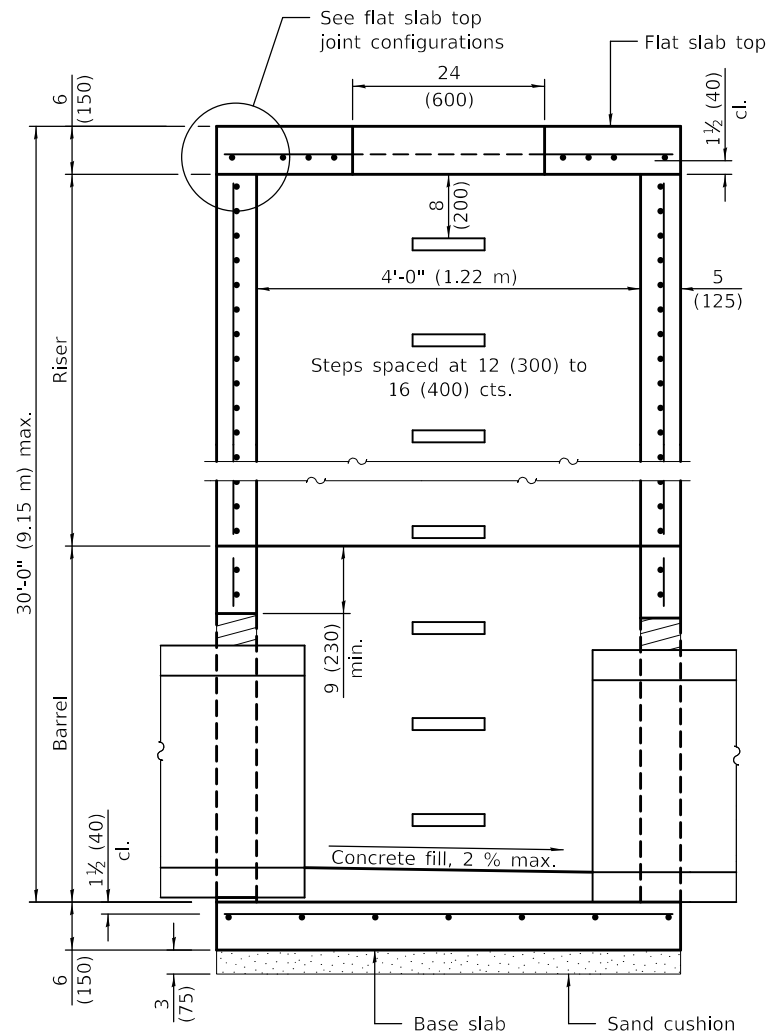
**STANDARD 602306-03**

Illinois Department of Transportation

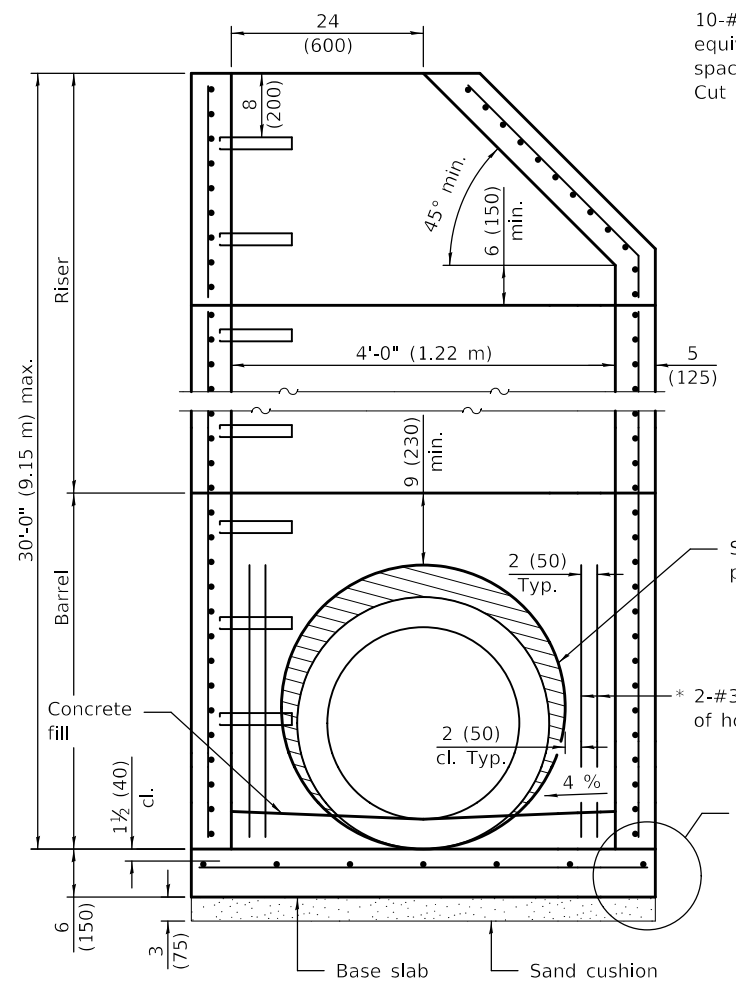
PASSED January 1, 2011  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011  
*Scott Schick*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**SECTION PARALLEL TO PIPE**  
(Without conical top riser)

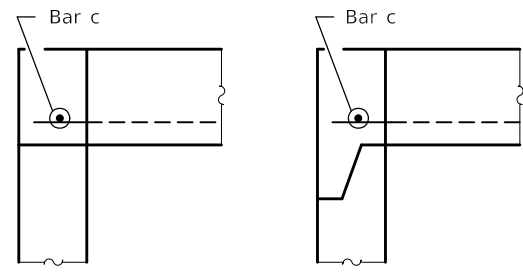


**SECTION PERPENDICULAR TO PIPE**  
(With conical top riser)

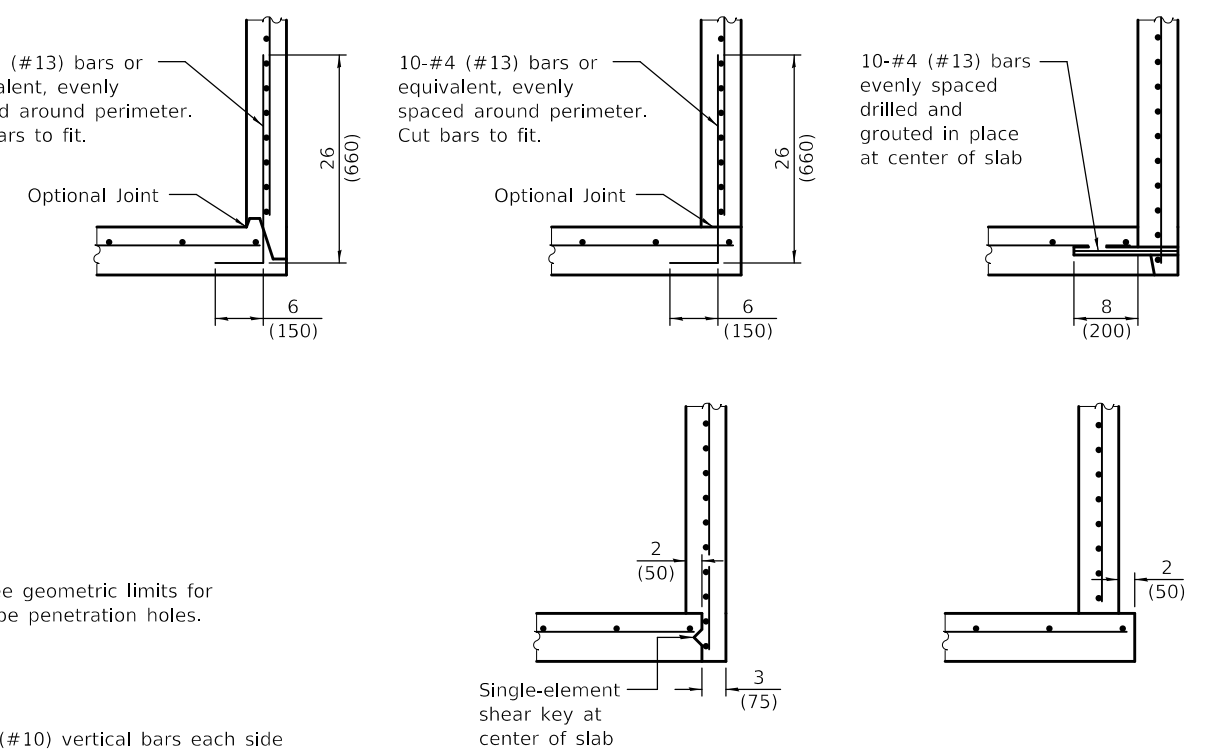
\* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.

**GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES**

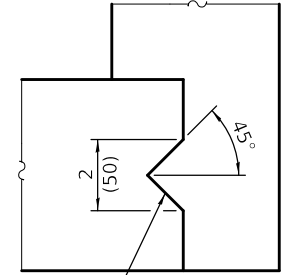
1. A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 24 (600).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



**FLAT SLAB TOP JOINT CONFIGURATIONS**  
(Shown at access hole)



**BASE SLAB JOINT CONFIGURATIONS**



Single-element shear key at center of slab  
**SHEAR KEY GEOMETRY**  
(Reinforcement not shown for clarity)

**GENERAL NOTES**

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
3-1-19	Moved wall reinforcement from inside face to middle.
1-1-19	Expanded / refined reinforcement options. Increased manhole depths.

**PRECAST MANHOLE TYPE A**  
**4' (1.22 m) DIAMETER**  
(Sheet 1 of 2)

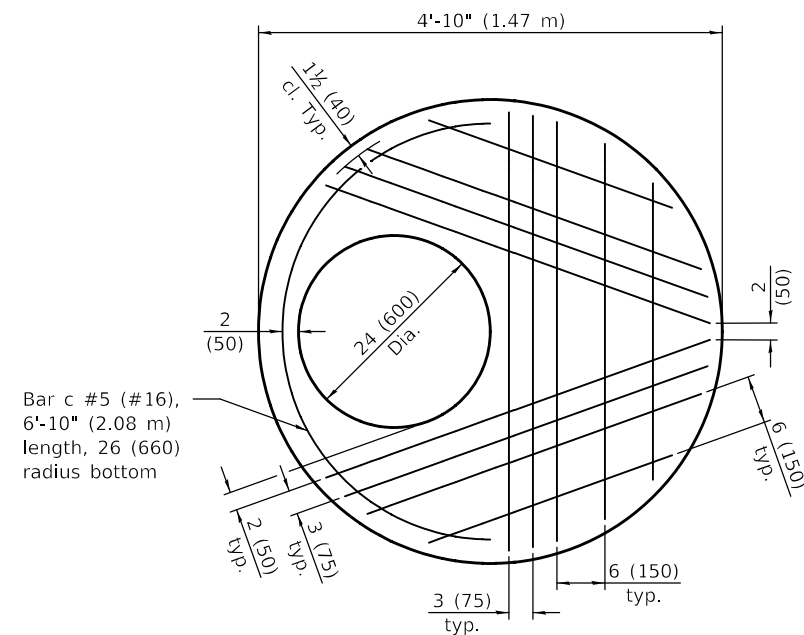
**STANDARD 602401-06**

Illinois Department of Transportation

PASSED March 1, 2019  
ENGINEER OF POLICY AND PROCEDURES

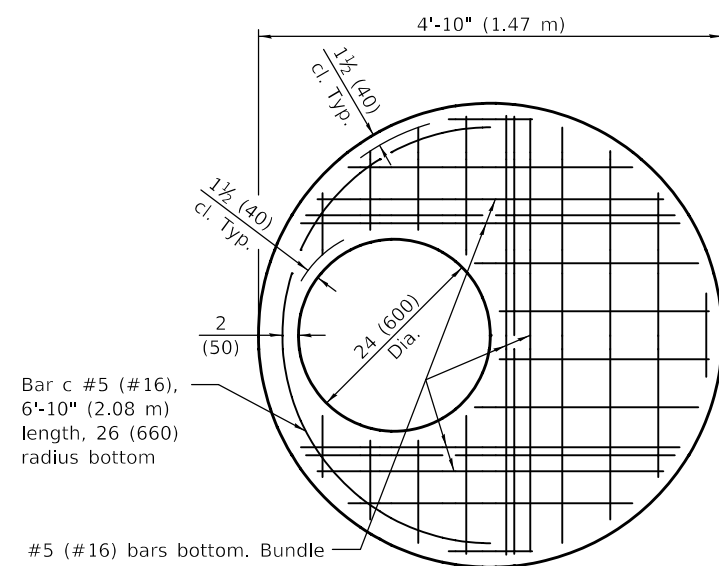
APPROVED March 1, 2019  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**PLAN - FLAT SLAB TOP**

(Showing layout of reinforcement bars and c bars)



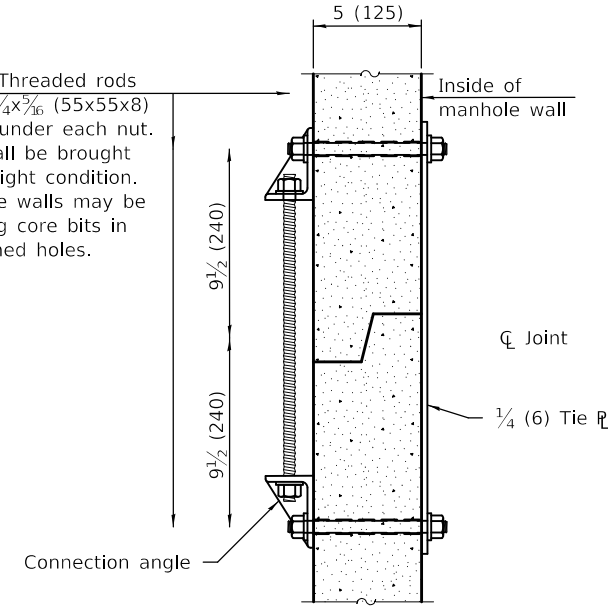
**PLAN - FLAT SLAB TOP**

(Showing layout of welded wire reinforcement and c bars)

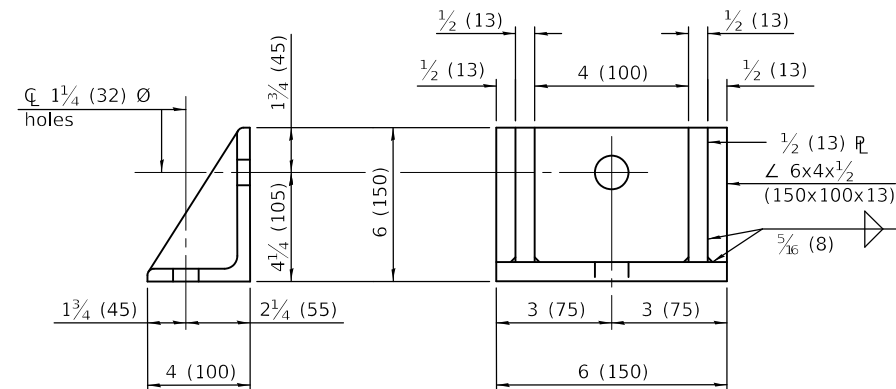
Bar c #5 (#16), 6'-10" (2.08 m) length, 26 (660) radius bottom

#5 (#16) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

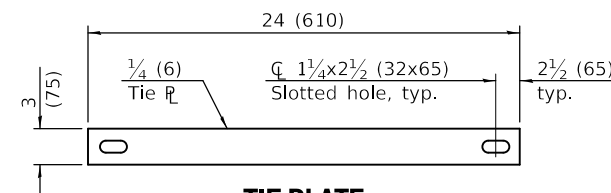
Ø 1(25) Threaded rods with 2 1/4 x 2 1/4 x 5/16 (55x55x8) washers under each nut. All nuts shall be brought to a snug tight condition. Holes in the walls may be drilled using core bits in lieu of formed holes.



**JOINT SPLICE**



**CONNECTION ANGLE**



**TIE PLATE**

**FLAT SLAB TOP REINFORCEMENT**

Location	WWR (each direction)		Rebar		
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)	Bar Size
Bottom Mat	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

\*\* Only one layer of WWR permitted to avoid congestion.

**WALL REINFORCEMENT**

Location	Orientation	WWR or Rebar	
		A <sub>s</sub> (min.)	Spacing (max.)
Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

**BASE SLAB REINFORCEMENT**

Location	Total Height	WWR or Rebar (each direction)	
		A <sub>s</sub> (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)

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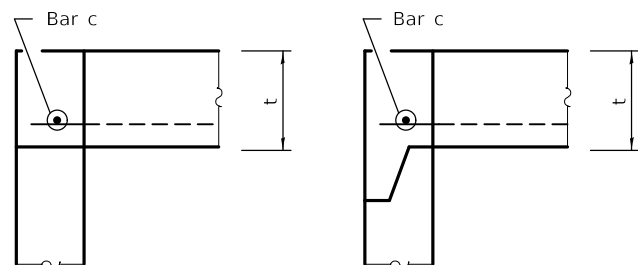
PASSED March 1, 2019  
  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**PRECAST MANHOLE TYPE A**  
**4' (1.22 m) DIAMETER**  
 (Sheet 2 of 2)

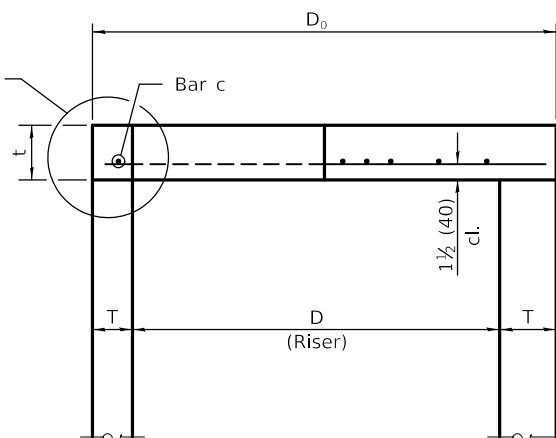
**STANDARD 602401-06**



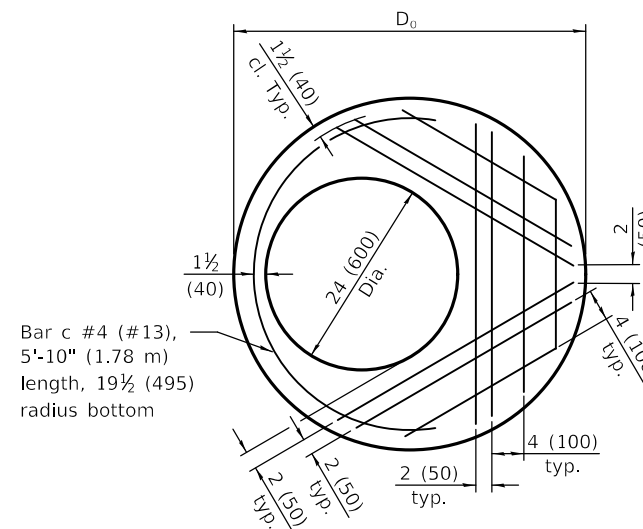
**FLAT SLAB TOP JOINT CONFIGURATIONS  
FOR D = 36 (900) AND D = 4'-0" (1.22 m)**

(Shown at access hole)

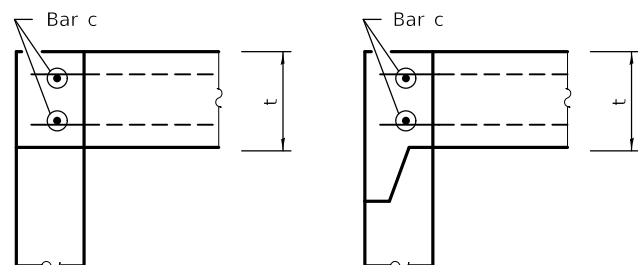
See Top Slab Joint Configurations for D=36 (900) and D=4'-0" (1.22 m)



**SECTION THRU FLAT SLAB TOP  
FOR D = 36 (900) AND D = 4'-0" (1.22 m)**



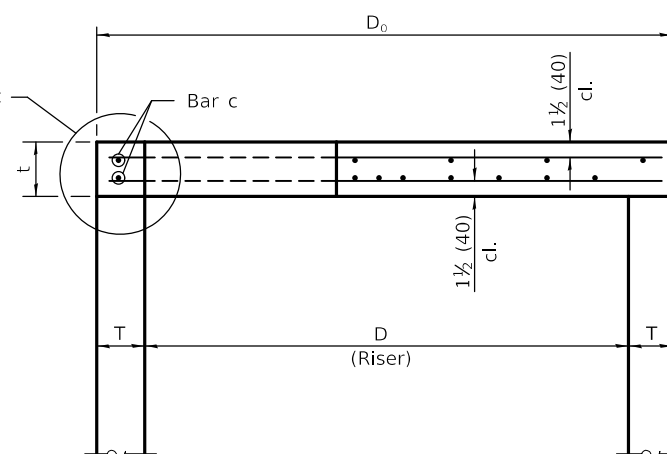
**PLAN - FLAT SLAB TOP FOR D = 36 (900)**  
(Showing layout of reinforcement bars and c bars)



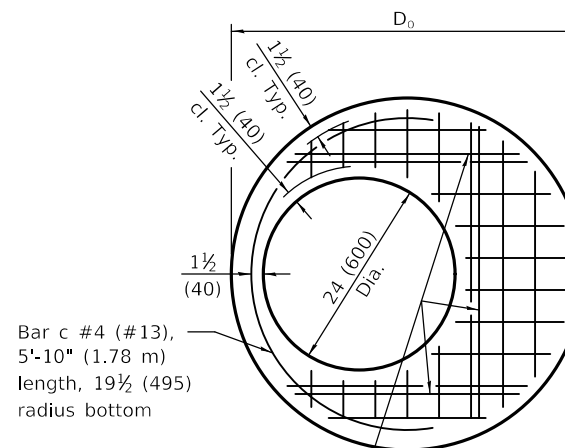
**FLAT SLAB TOP JOINT CONFIGURATIONS  
D = 5'-0" (1.52 m)**

(Shown at access hole)

See Top Slab Joint Configurations for D=5'-0" (1.52 m)



**SECTION THRU FLAT SLAB TOP  
FOR D = 5'-0" (1.52 m)**



#4 (#13) bars bottom. Bundle with closest WWR bar to the opening.

**PLAN - FLAT SLAB TOP FOR D = 36 (900)**  
(Showing layout of welded wire reinforcement and c bars)

**TABLE**

D	T	D <sub>0</sub> (min.)	t
36 (900)	See applicable Standards	D + 2T	6 (150)
4'-0" (1.2 m)			6 (150)
5'-0" (1.5 m)			8 (200)

**GENERAL NOTES**

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602016, or 602306 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Expanded / refined reinforcement options.
1-1-18	Revised for compliance with LRFD.

**PRECAST REINFORCED  
CONCRETE FLAT SLAB TOP**

(Sheet 1 of 2)

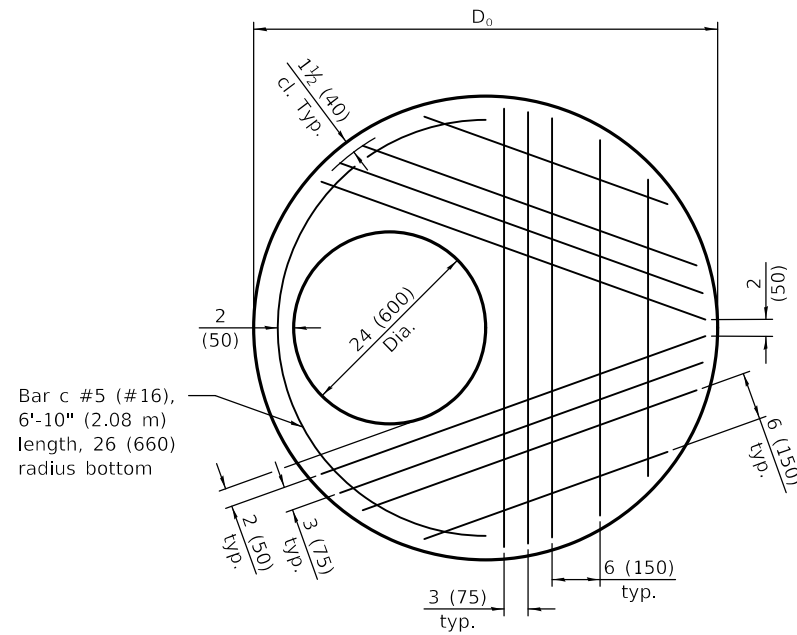
**STANDARD 602601-06**

Illinois Department of Transportation

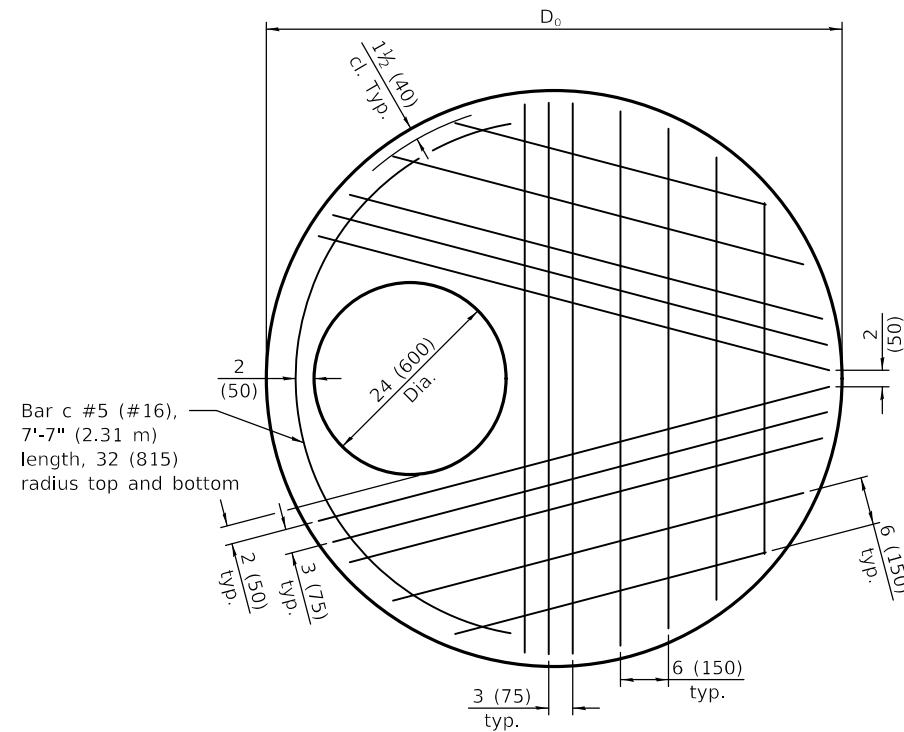
PASSED January 1, 2019  
  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

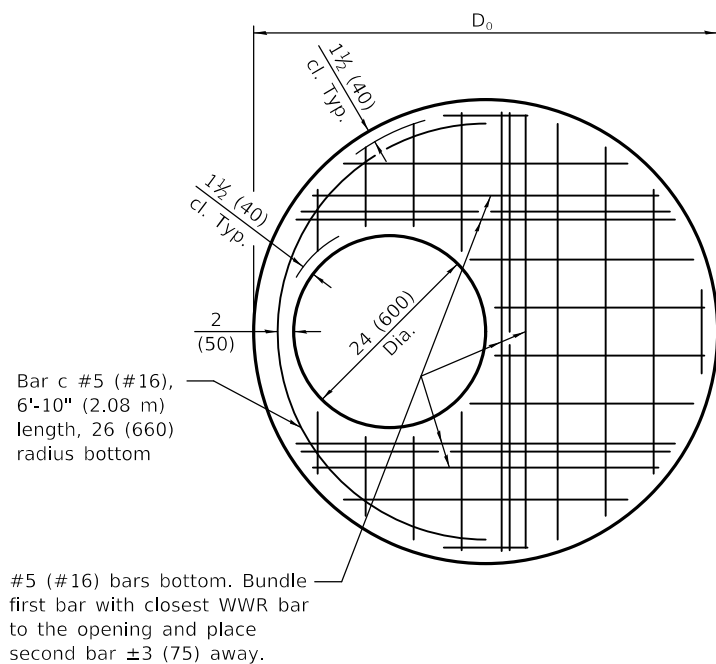
ISSUED 1-1-97



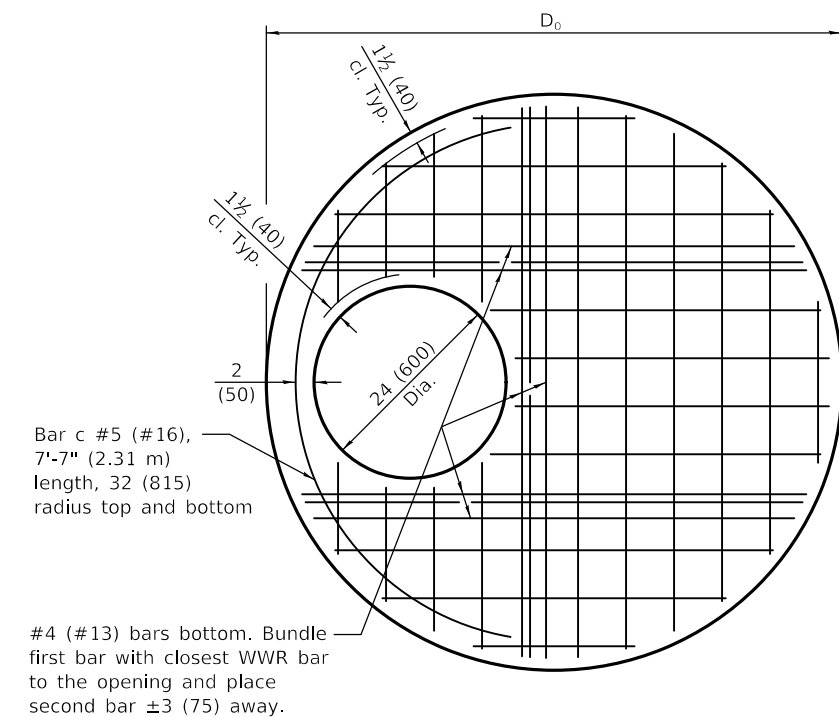
**PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)**  
(Showing layout of reinforcement bars and c bars)



**PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)**  
(Showing layout of bottom reinforcement bars and c bars)



**PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)**  
(Showing layout of welded wire reinforcement and c bars)



**PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)**  
(Showing layout of welded wire reinforcement and c bars)

**FLAT SLAB TOP REINFORCEMENT FOR D = 36 (900)**

Location	WWR (each direction)		Rebar		
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.60 sq. in./ft. (1270 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

**FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0" (1.22 m)**

Location	WWR (each direction)		Rebar		
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)

**FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)**

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	* 0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

\* Only one layer of WWR permitted to avoid congestion.

Illinois Department of Transportation

PASSED January 1, 2019  
  
 ENGINEER OF POLICY AND PROCEDURES

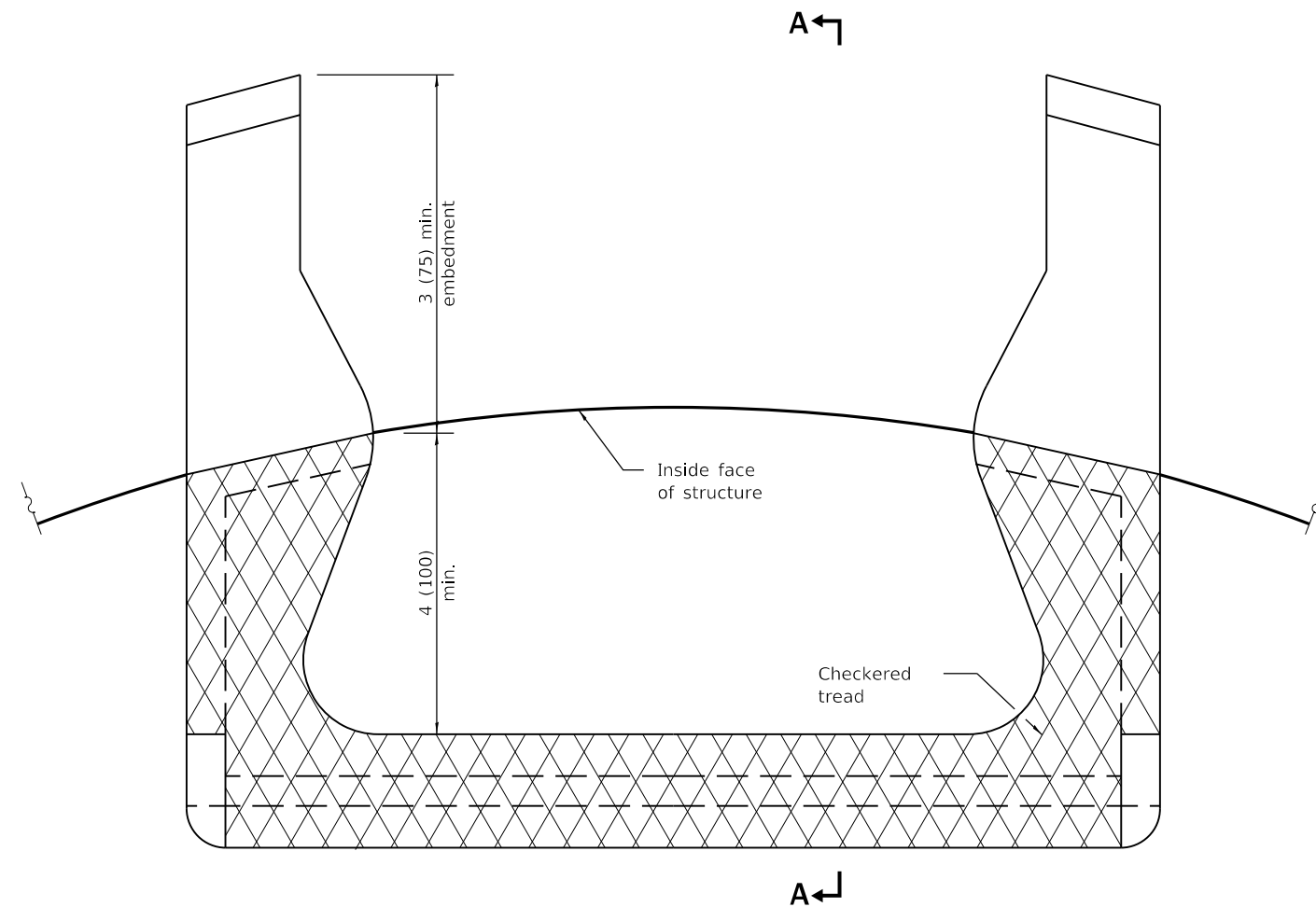
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

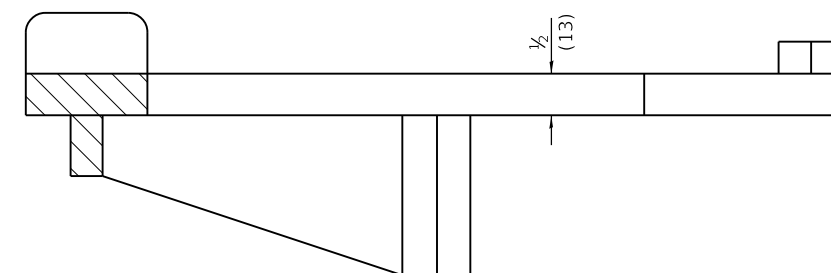
**PRECAST REINFORCED CONCRETE FLAT SLAB TOP**

(Sheet 2 of 2)

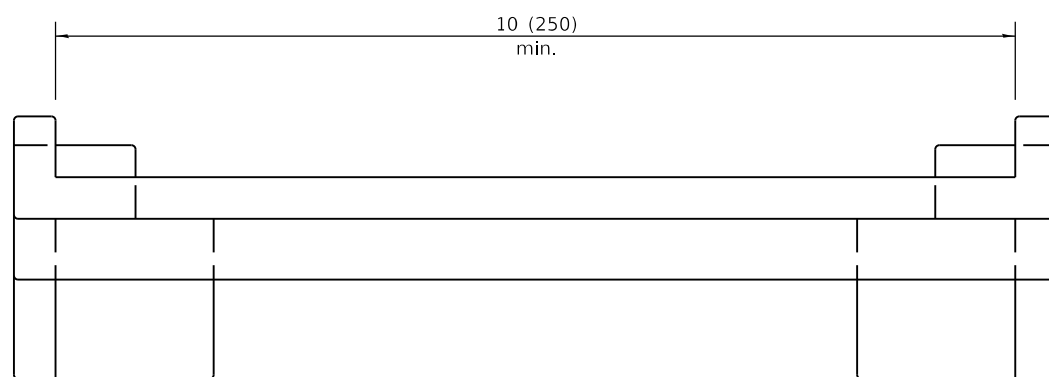
**STANDARD 602601-06**



**PLAN VIEW**




**SECTION A-A**



**ELEVATION VIEW**

All dimensions are in inches (millimeters) unless otherwise shown.


 Illinois Department of Transportation  
 PASSED January 1, 2009  
*[Signature]*  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2009  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

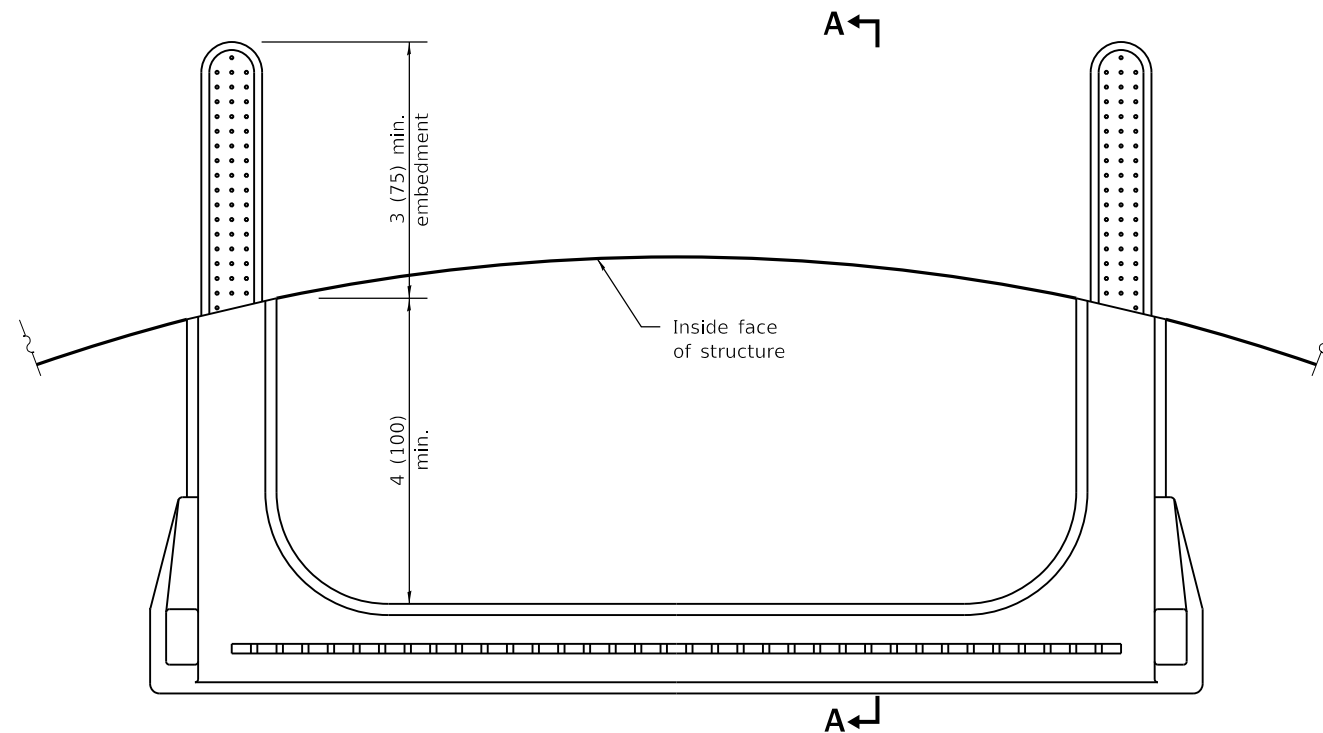
DATE	REVISIONS
1-1-09	Switched units to English (metric).
4-1-06	Revised title, drawings, and added plastic steps on sheet 2.

**MANHOLE STEPS**

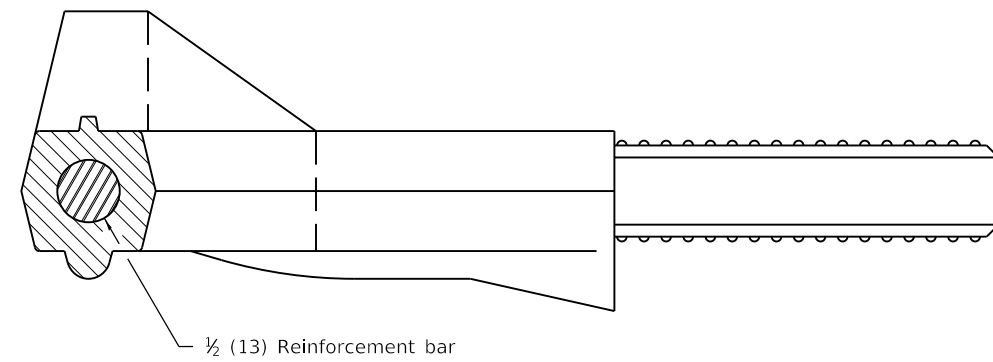
(Sheet 1 of 2)

**STANDARD 602701-02**

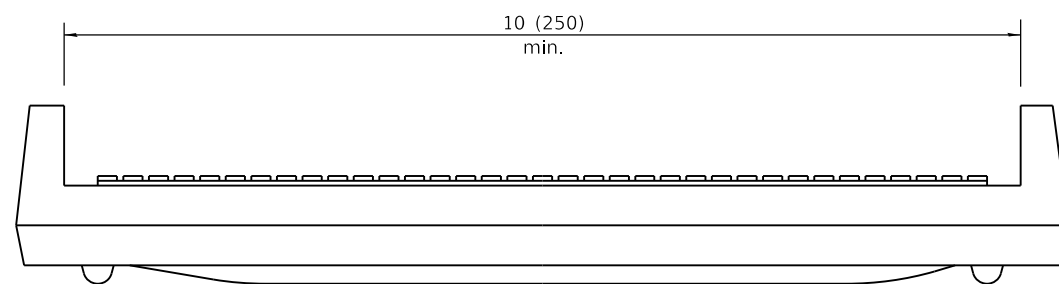




**PLAN VIEW**



**SECTION A-A**

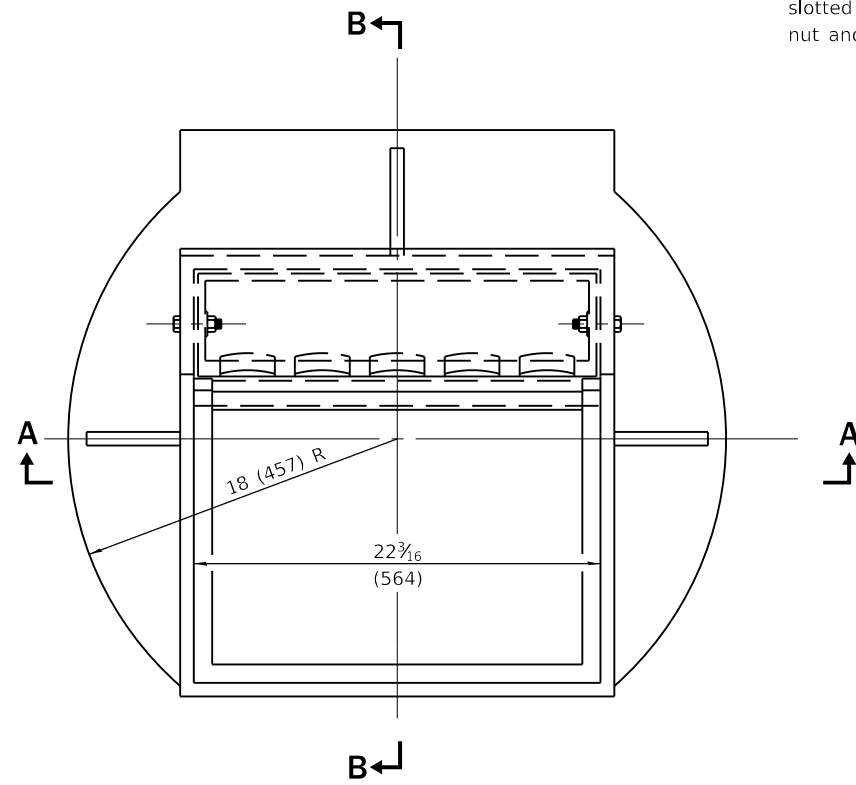


**ELEVATION VIEW**

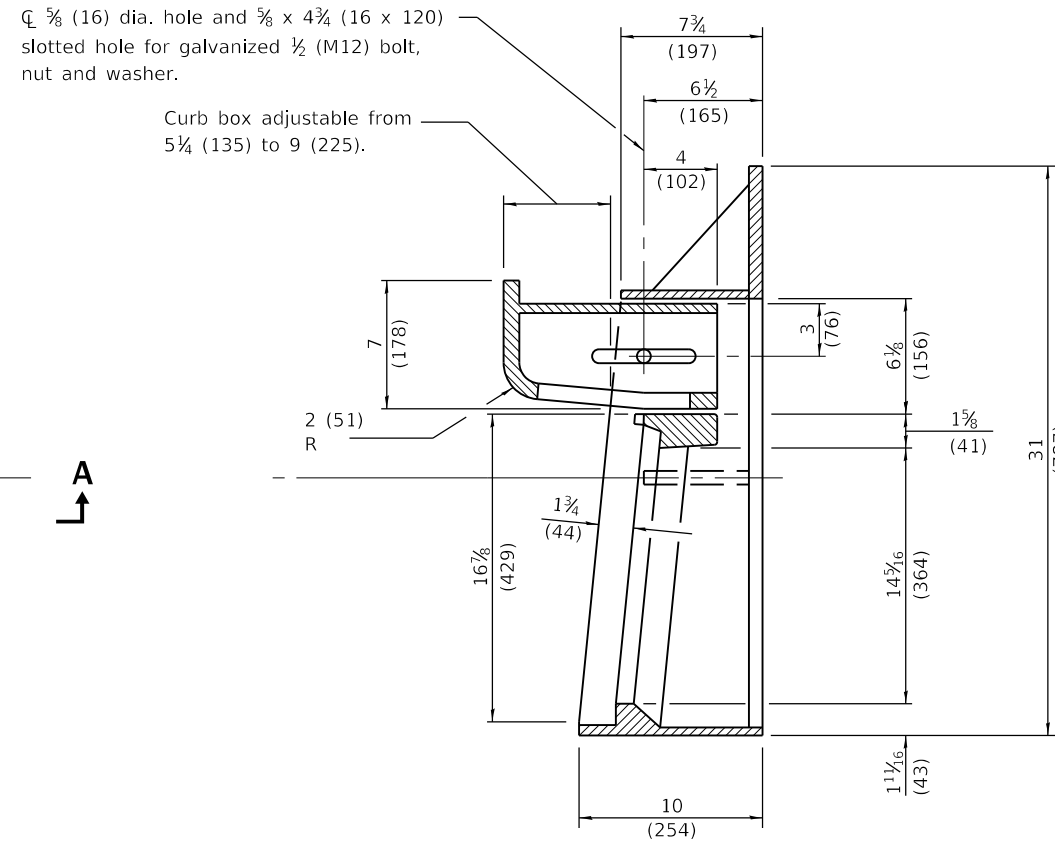
Illinois Department of Transportation  
PASSED January 1, 2009  
ENGINEER OF POLICY AND PROCEDURES  
APPROVED January 1, 2009  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

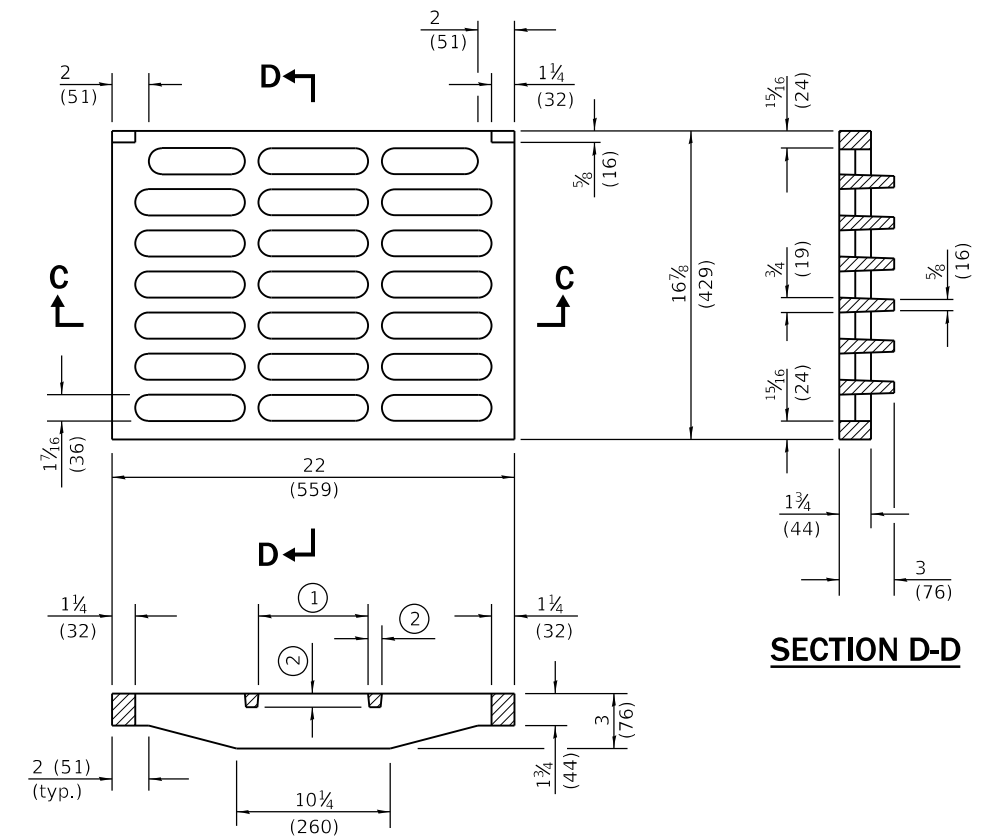
**MANHOLE STEPS**  
(Sheet 2 of 2)  
**STANDARD 602701-02**



**CAST FRAME**



**SECTION B-B**

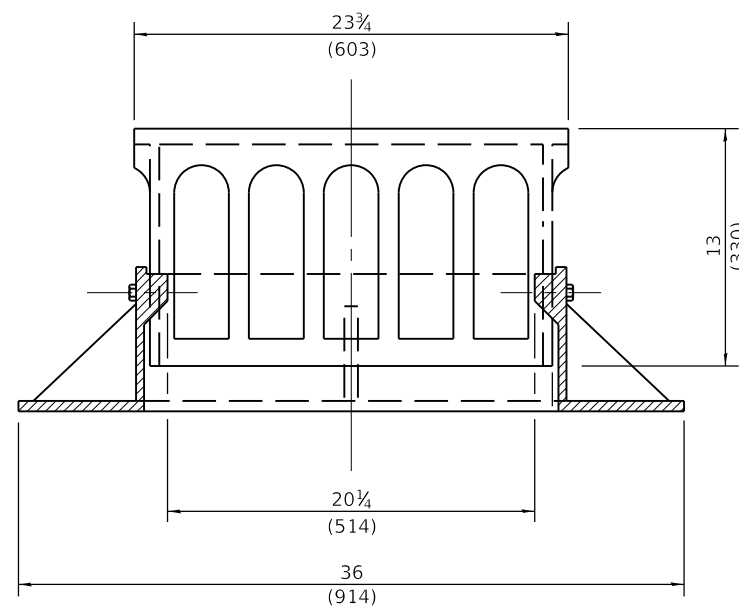


**SECTION C-C**

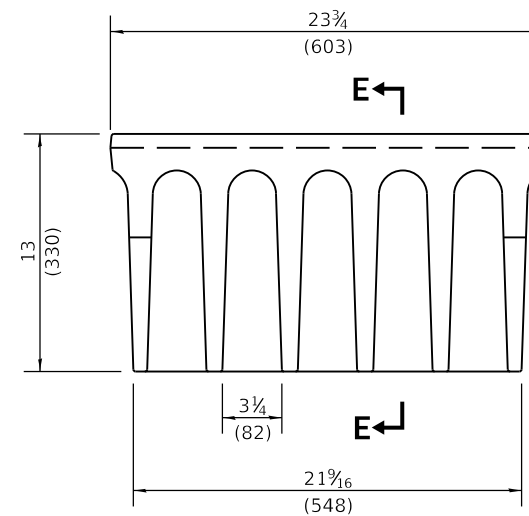
- ① = 6 (152) typ.
- ② = 3/4 (19) typ.

**SECTION D-D**

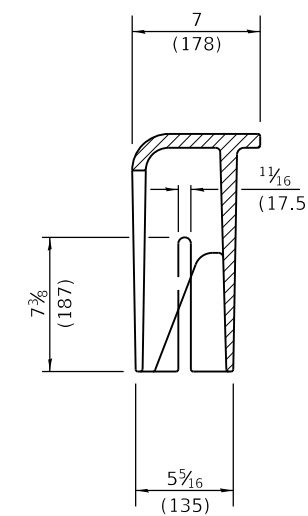
**CAST GRATE**



**SECTION A-A**



**ALTERNATE CURB BOX**



**SECTION E-E**

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2015  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

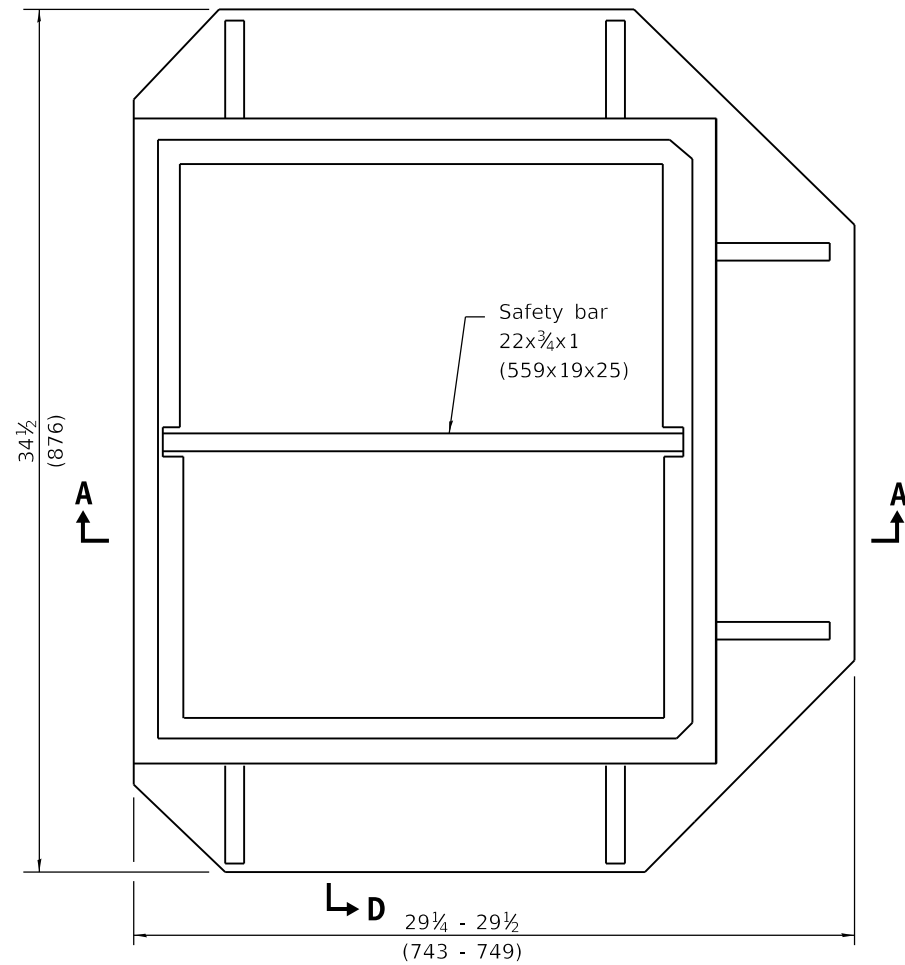
APPROVED January 1, 2015  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

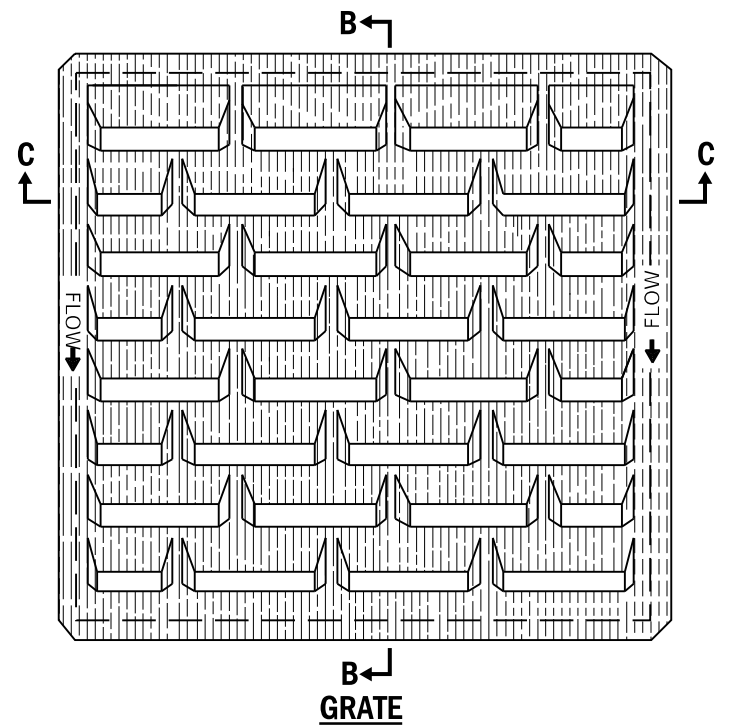
DATE	REVISIONS
1-1-15	Revised dimenstions of frame and alternate curb box.
1-1-09	Switched units to English (metric).

**FRAME AND GRATE  
TYPE 3**

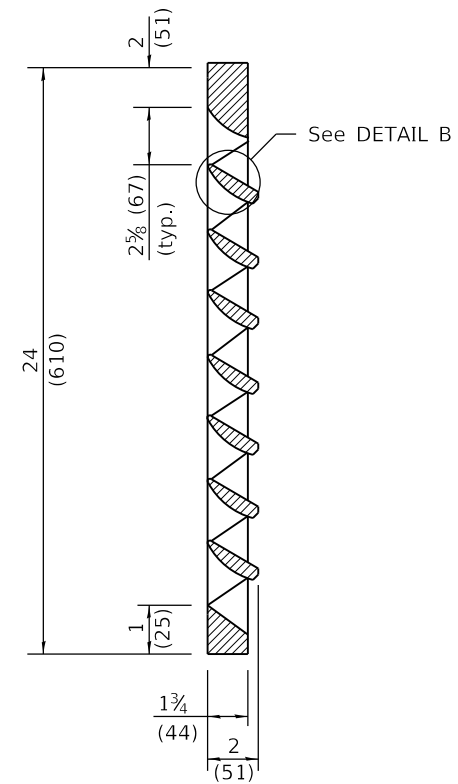
**STANDARD 604006-05**



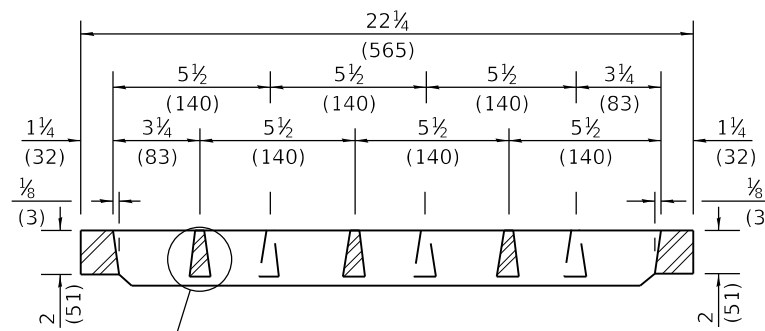
**PLAN - FRAME**



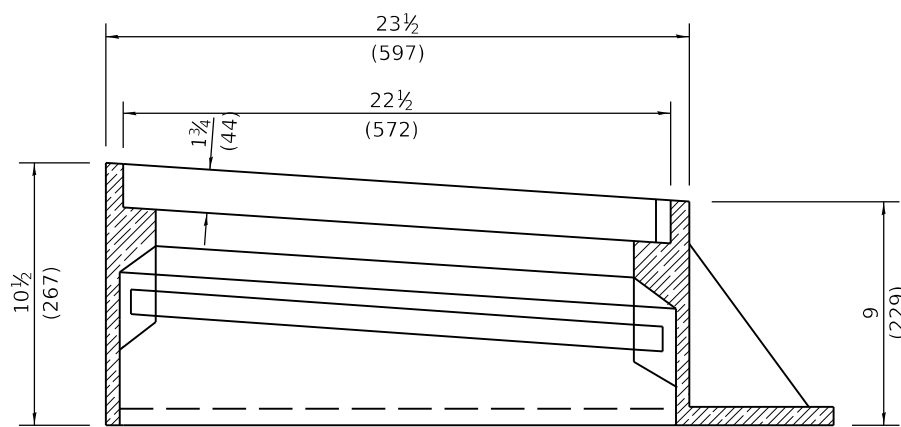
**GRATE**



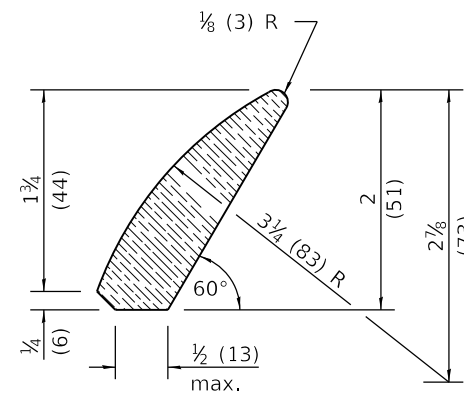
**SECTION B-B**



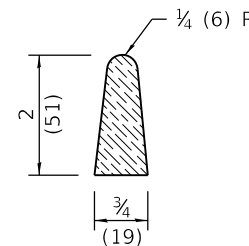
**SECTION C-C**



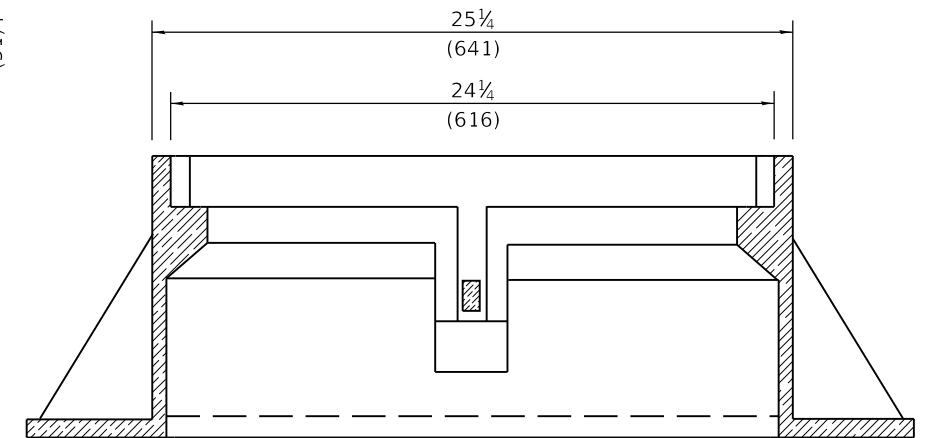
**SECTION A-A**



**DETAIL B**



**DETAIL A**



**SECTION D-D**

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2015  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

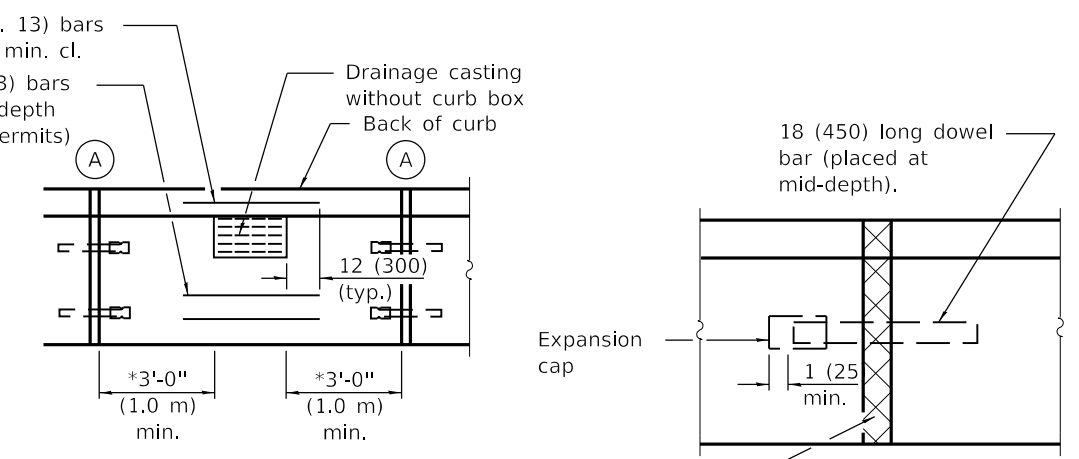
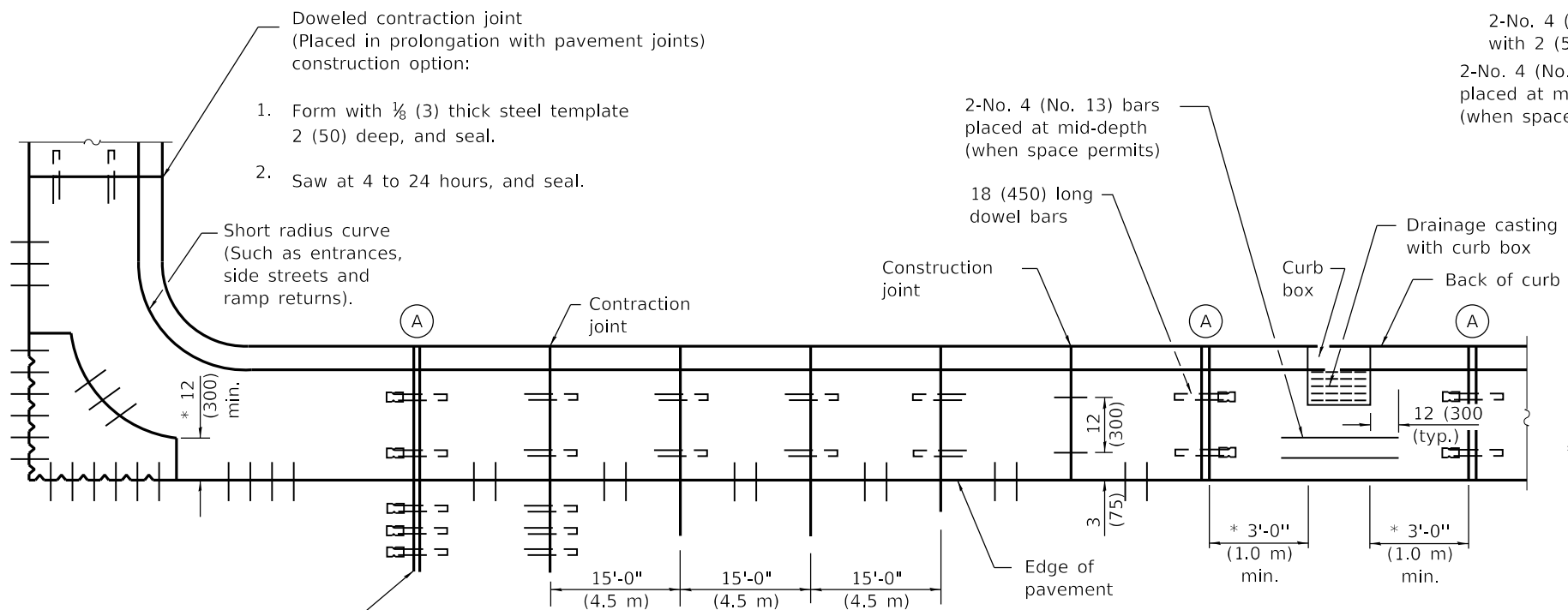
APPROVED January 1, 2015  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

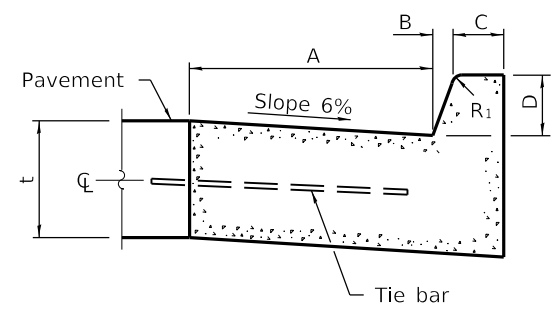
DATE	REVISIONS
1-1-15	Revised dimensions of frame.
1-1-09	Switched units to English (metric).

**FRAME AND GRATE  
TYPE 24**

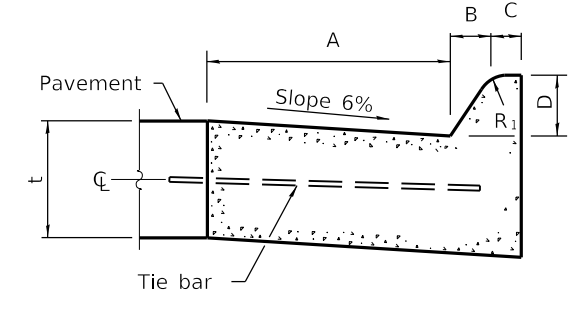
**STANDARD 604091-03**



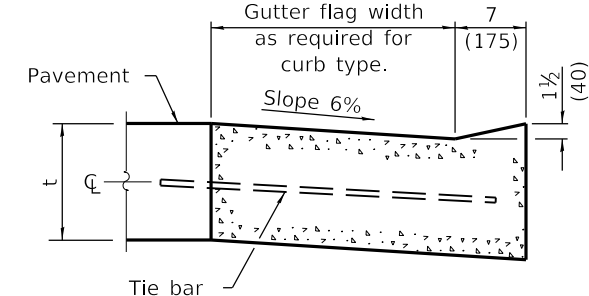
**PLAN**  
**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**



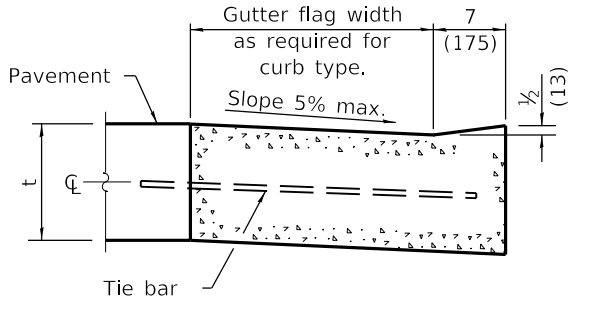
**BARRIER CURB**



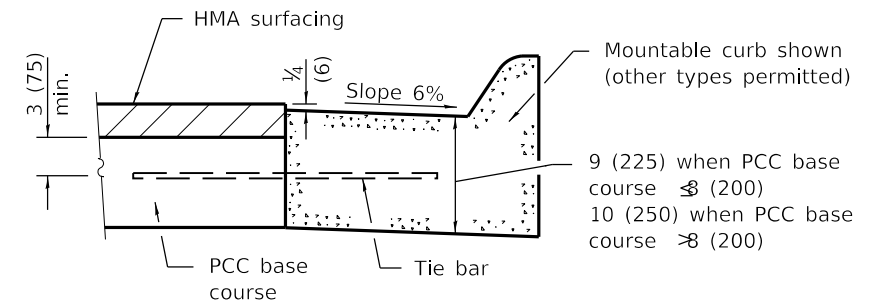
**MOUNTABLE CURB**



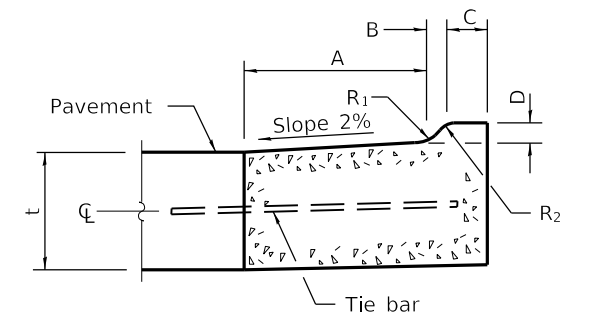
**DEPRESSED CURB (TYPICAL)**



**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**



**ADJACENT TO PCC BASE COURSE WITH HMA SURFACING**



**M-2.06 (M-5.15) and M-2.12 (M-5.30)**

TABLE OF DIMENSIONS BARRIER CURB					
TYPE	A	B	C	D	R <sub>1</sub>
B-6.06 *	6	1	6	6	1
(B-15.15)	(150)	(25)	(150)	(150)	(25)
B-6.12	12	1	6	6	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)
B-6.18	18	1	6	6	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)
B-6.24	24	1	6	6	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)
B-9.12	12	2	5	9	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)
B-9.18	18	2	5	9	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)
B-9.24	24	2	5	9	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)

\* For corner islands only.

TABLE OF DIMENSIONS MOUNTABLE CURB						
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>
M-2.06	6	2	4	2	3	2
(M-5.15)	(150)	(50)	(100)	(50)	(75)	(50)
M-2.12	12	2	4	2	3	2
(M-5.30)	(300)	(50)	(100)	(50)	(75)	(50)
M-4.06	6	4	3	4	3	NA
(M-10.15)	(150)	(100)	(75)	(100)	(75)	NA
M-4.12	12	4	3	4	3	NA
(M-10.30)	(300)	(100)	(75)	(100)	(75)	NA
M-4.18	18	4	3	4	3	NA
(M-10.45)	(450)	(100)	(75)	(100)	(75)	NA
M-4.24	24	4	3	4	3	NA
(M-10.60)	(600)	(100)	(75)	(100)	(75)	NA
M-6.06	6	6	2	6	2	NA
(M-15.15)	(150)	(150)	(50)	(150)	(50)	NA
M-6.12	12	6	2	6	2	NA
(M-15.30)	(300)	(150)	(50)	(150)	(50)	NA
M-6.18	18	6	2	6	2	NA
(M-15.45)	(450)	(150)	(50)	(150)	(50)	NA
M-6.24	24	6	2	6	2	NA
(M-15.60)	(600)	(150)	(50)	(150)	(50)	NA

**GENERAL NOTES**

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.
1-1-15	Added B-6.06 (B-15.15) barrier curb and gutter to table (corner islands only).

**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**  
(Sheet 1 of 2)

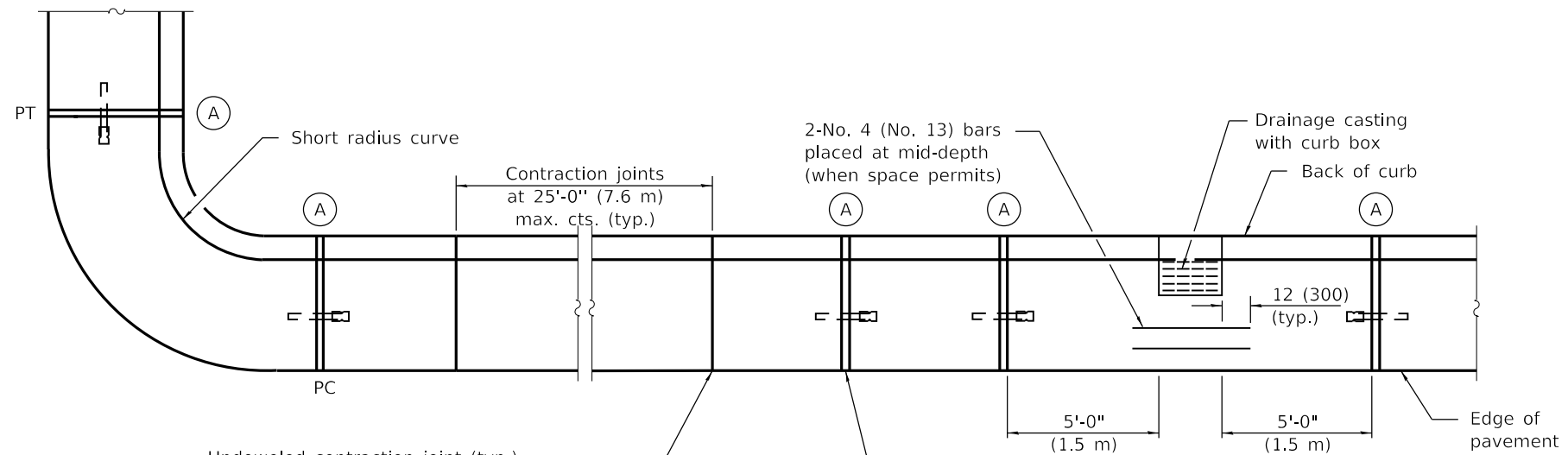
**STANDARD 606001-07**

Illinois Department of Transportation

PASSED January 1, 2018  
Michael Brand  
ENGINEER OF POLICY AND PROCEDURES

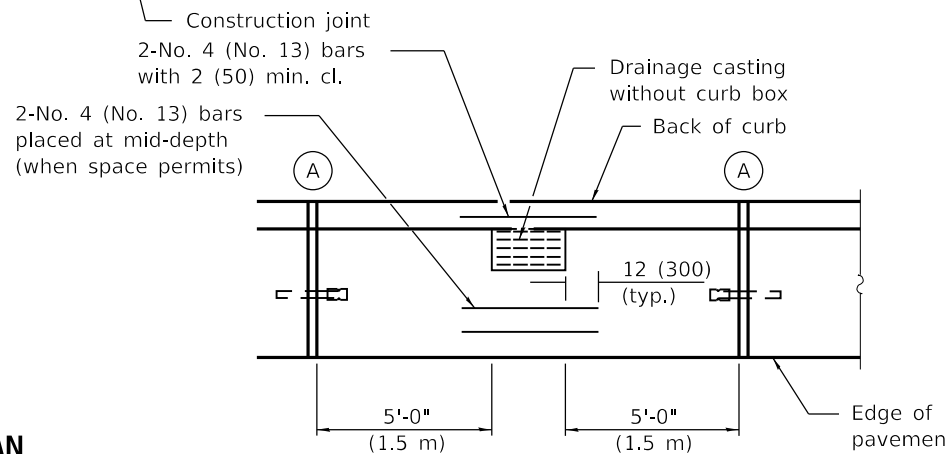
APPROVED January 1, 2018  
Maureen M. Beck  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

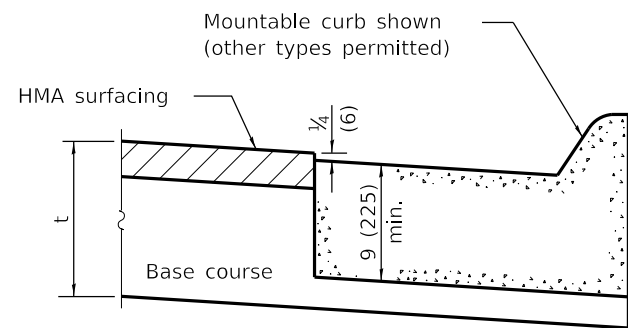


Undoweled contraction joint (typ.) construction options:

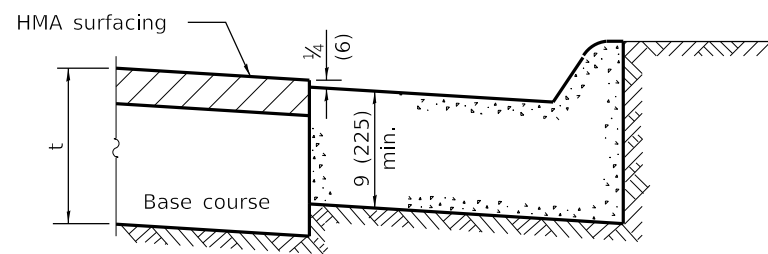
1. Form with 1/8 (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert 3/4 (20) thick preformed joint filler full depth and width.



**PLAN**

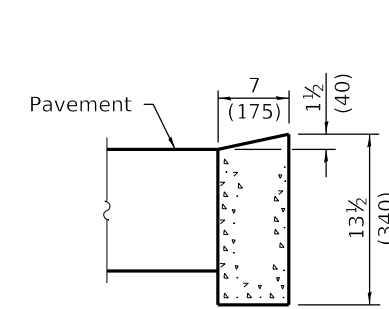


**ON DISTURBED SUBGRADE**

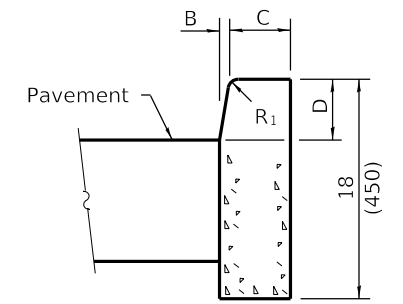


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

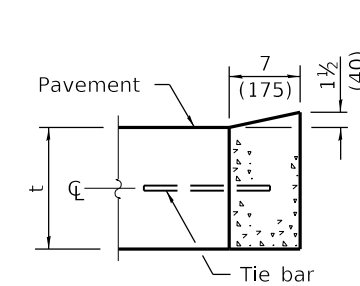


**DEPRESSED CURB**

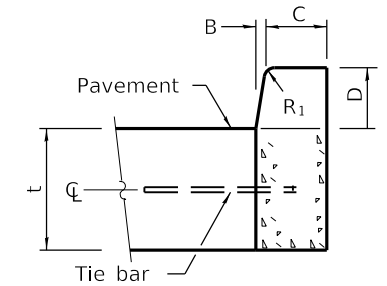


**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



**BARRIER CURB**

**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**

**CONCRETE CURB TYPE B**

**CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER**

(Sheet 2 of 2)

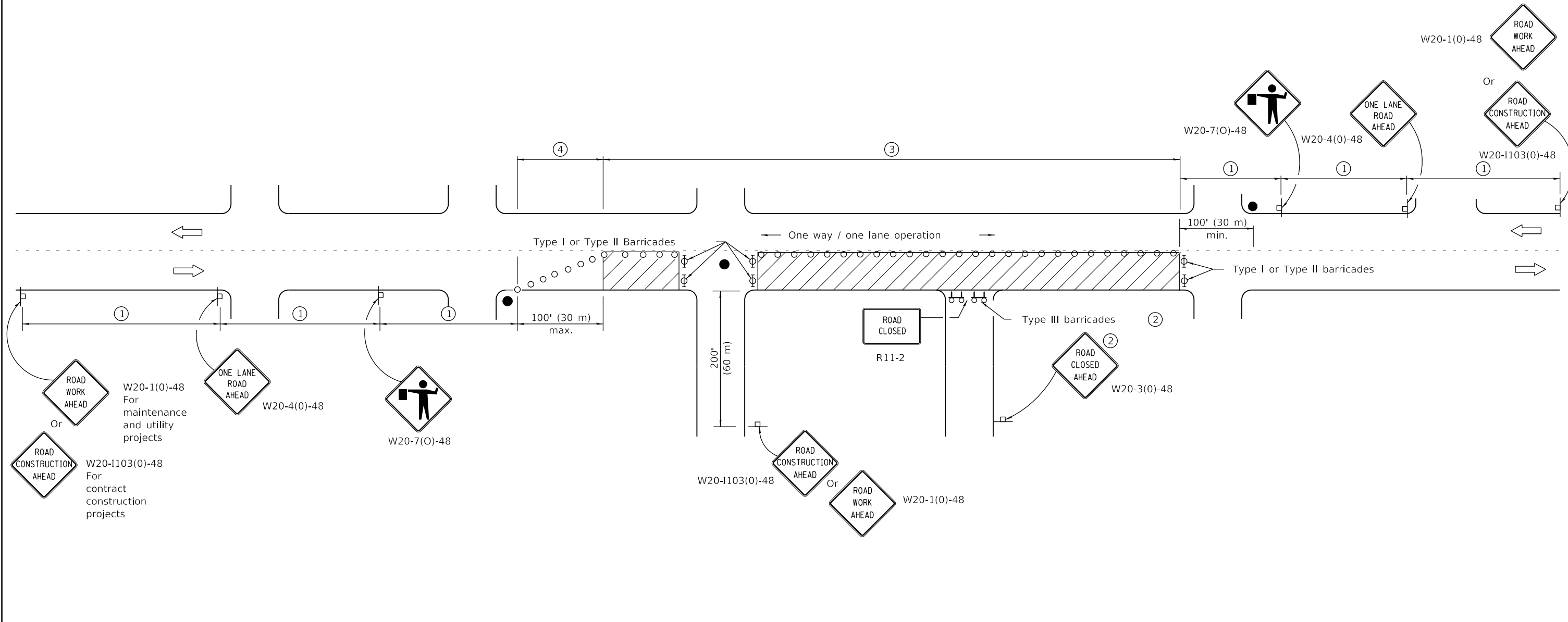
**STANDARD 606001-07**

Illinois Department of Transportation

PASSED January 1, 2018  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018  
*Marcus M. Beck*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011  
*[Signature]*  
 ENGINEER OF SAFETY ENGINEERING

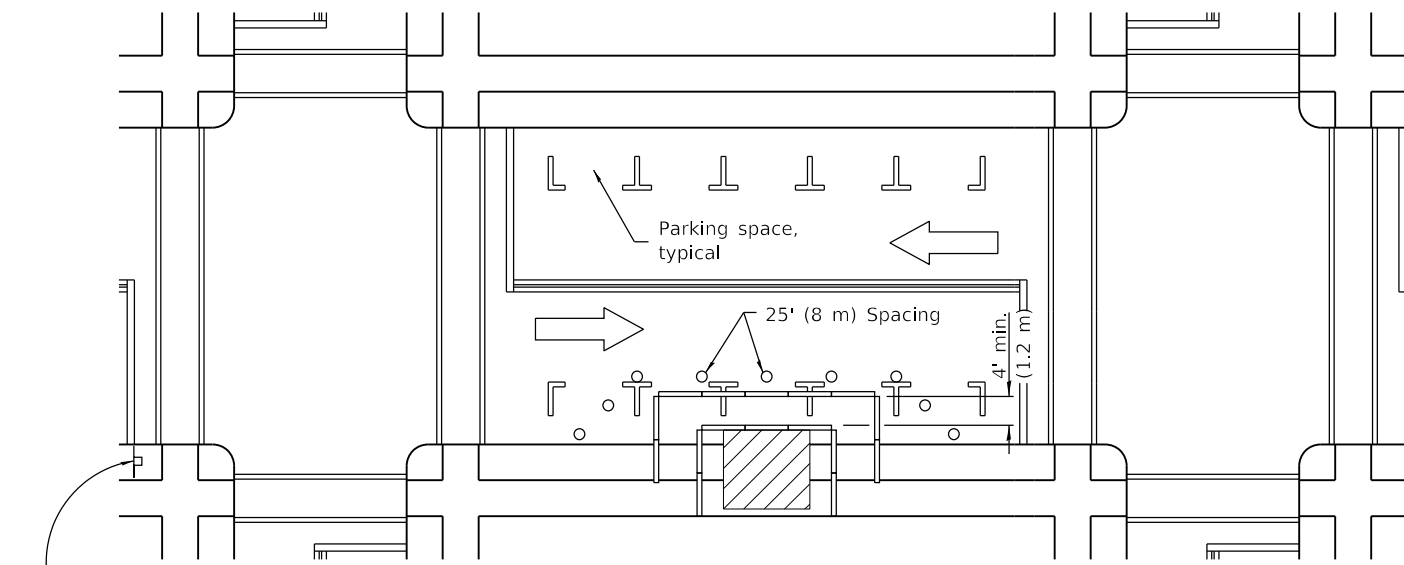
APPROVED January 1, 2011  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

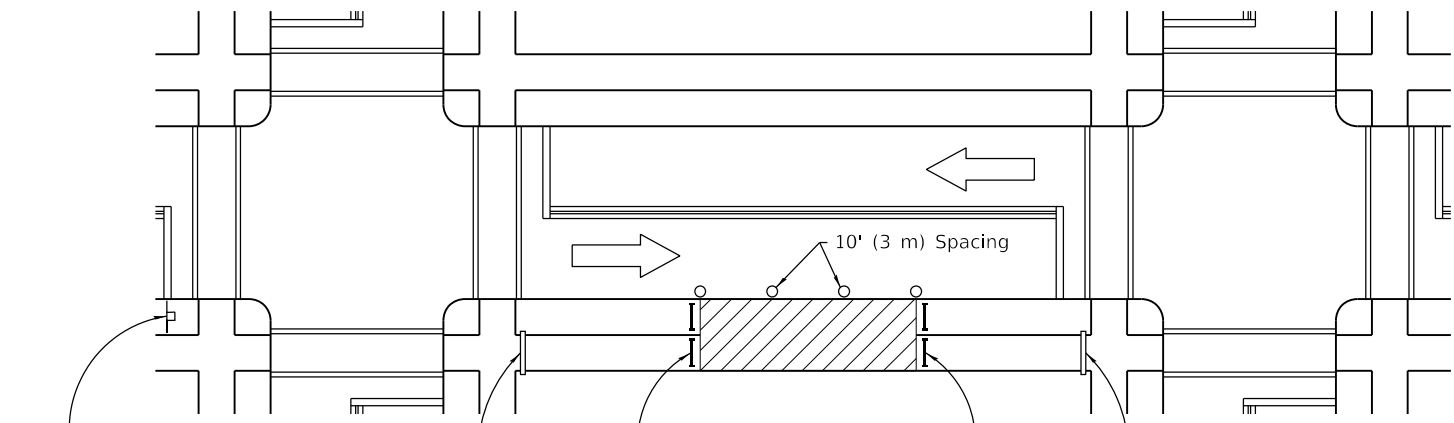
**STANDARD 701501-06**



① ROAD CONSTRUCTION AHEAD W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD W20-1(0)-48 for maintenance and utility projects

**SIDEWALK DIVERSION**



① ROAD CONSTRUCTION AHEAD W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD W20-1(0)-48 for maintenance and utility projects

R11-1102-2430

R11-1101-2418

R11-1102-2430

**SIDEWALK CLOSURE**

① Omit whenever duplicated by road work traffic control.

**GENERAL NOTES**

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.







The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

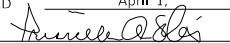
Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.


All dimensions are in inches (millimeters) unless otherwise shown.

**SYMBOLS**

-  Work area
-  Sign on portable or permanent support
-  Barricade or drum
-  Cone, drum or barricade
-  Type III barricade
-  Detectable pedestrian channelizing barricade

Illinois Department of Transportation

PASSED April 1, 2016  
  
 ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

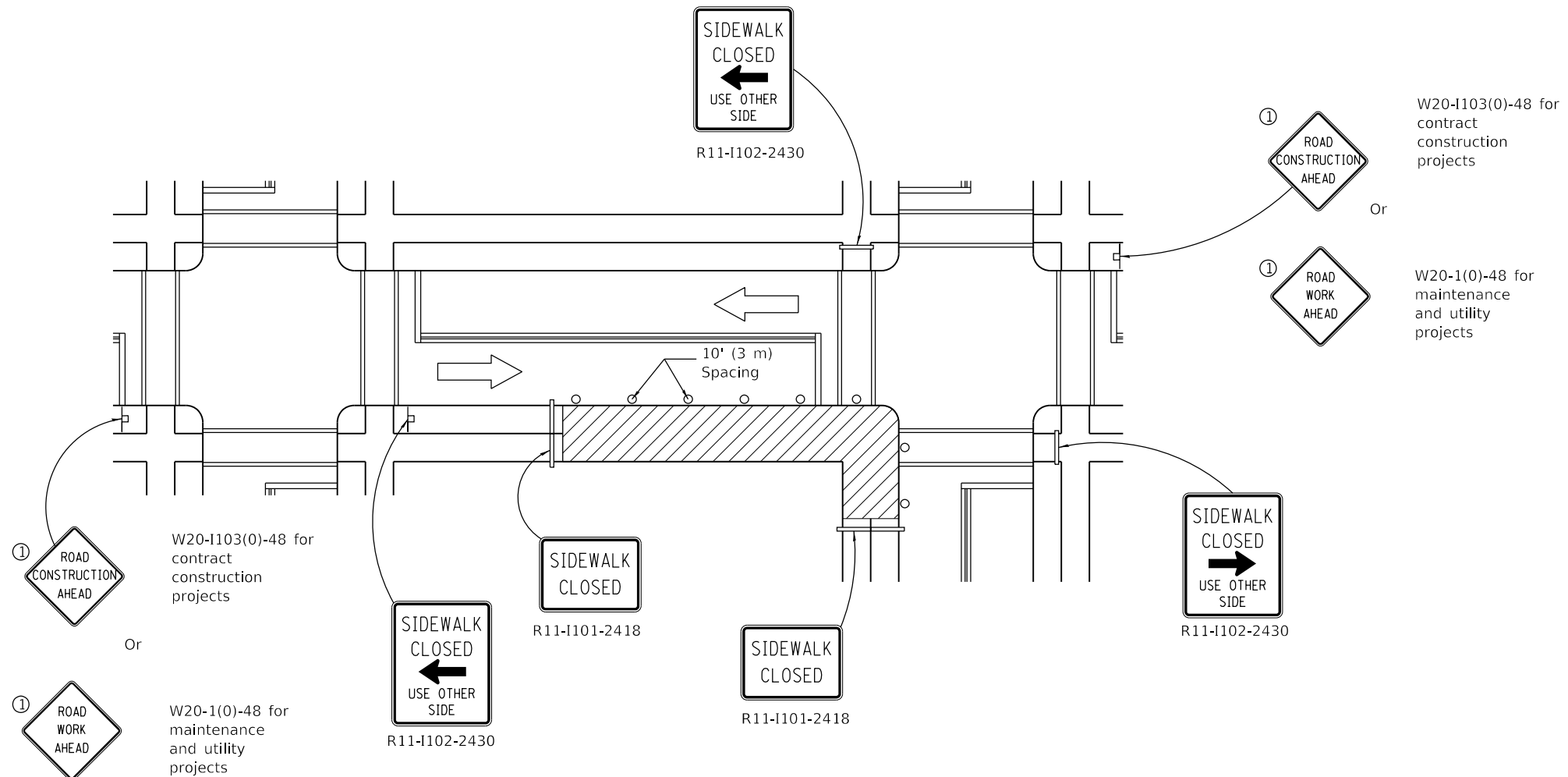
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

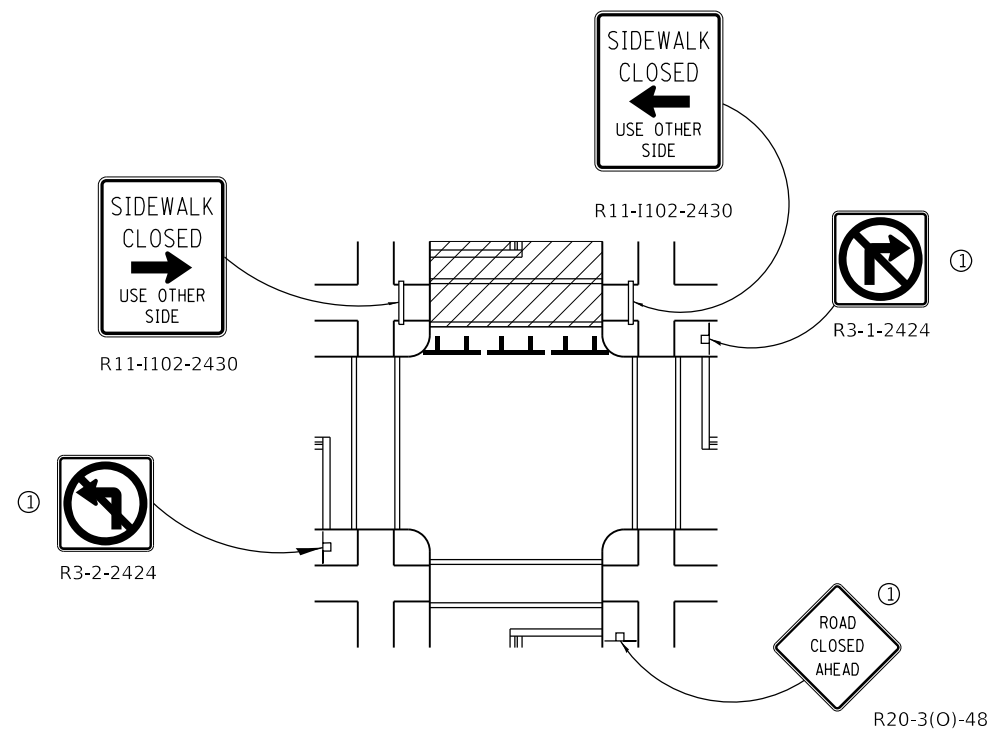
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

**STANDARD 701801-06**



**CORNER CLOSURE**



**CROSSWALK CLOSURE**

W20-I103(0)-48 for contract construction projects

Or

W20-1(0)-48 for maintenance and utility projects

**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 2 of 2)

**STANDARD 701801-06**

Illinois Department of Transportation

PASSED April 1, 2016

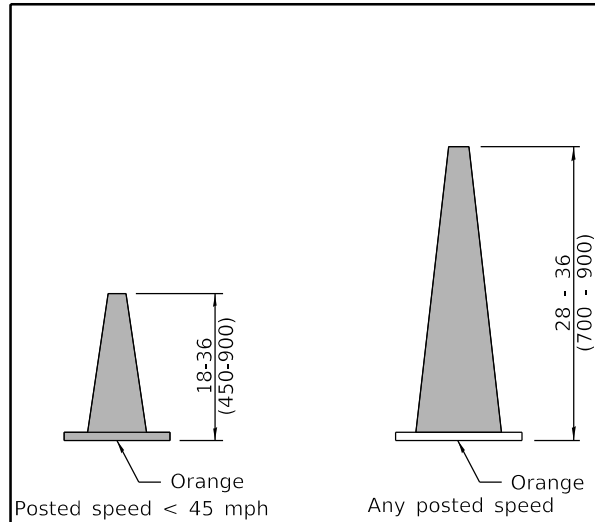
*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

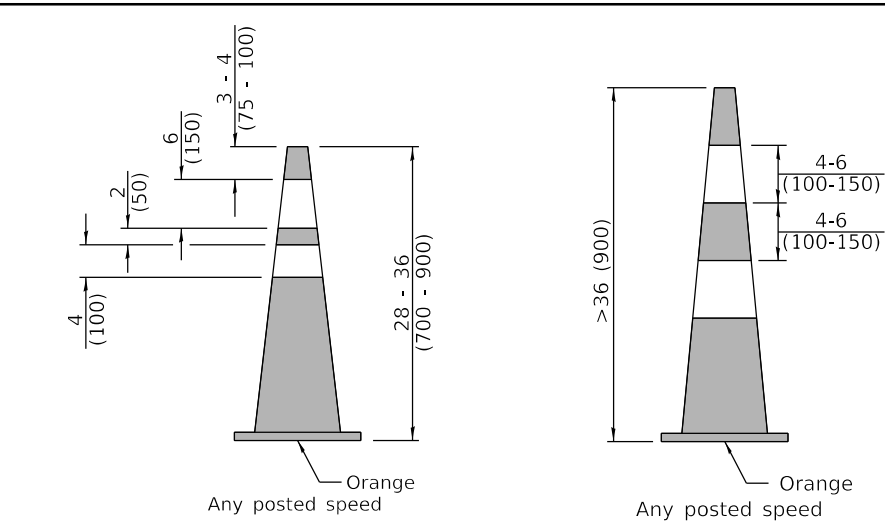
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

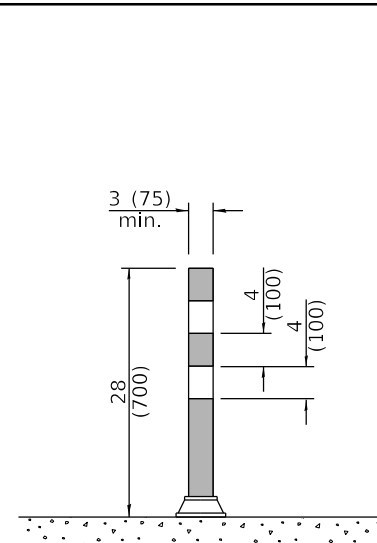




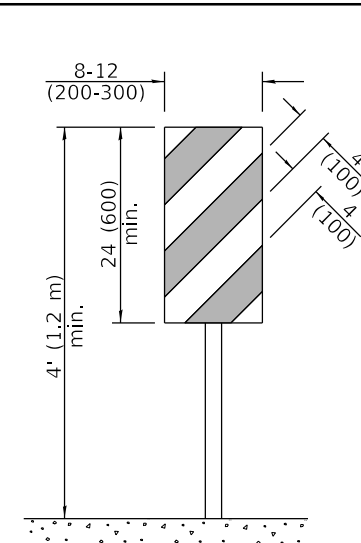
**DAYTIME USE**



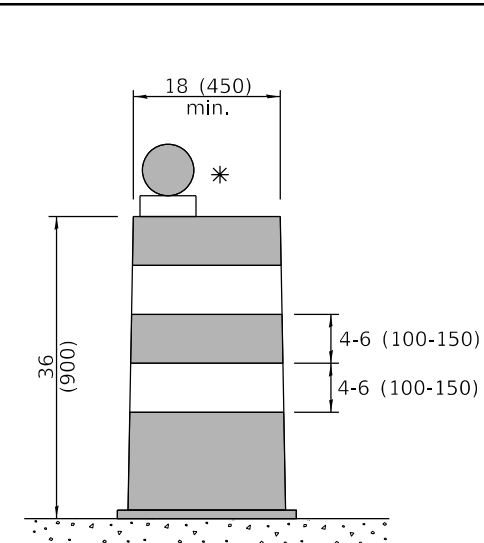
**DAY OR NIGHTTIME USE**



**TUBULAR MARKER**

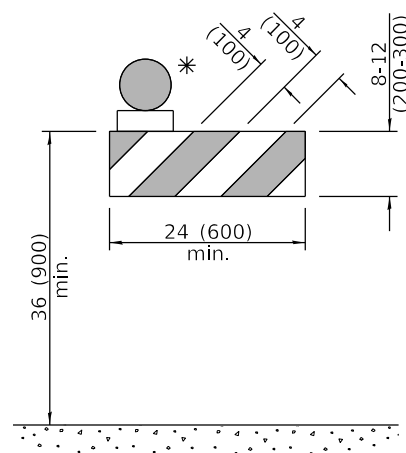


**VERTICAL PANEL  
POST MOUNTED**

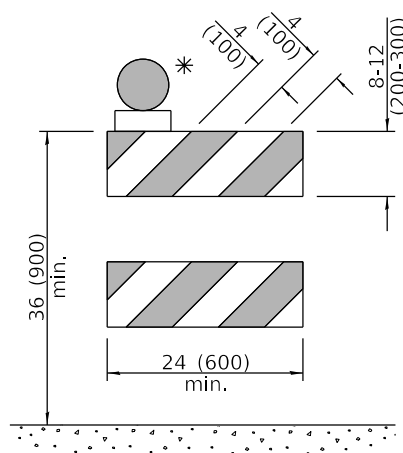


**DRUM**

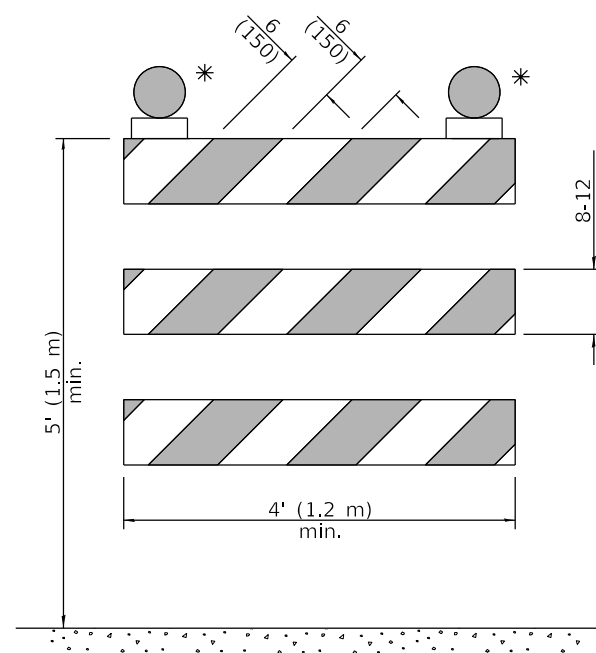
**CONES**



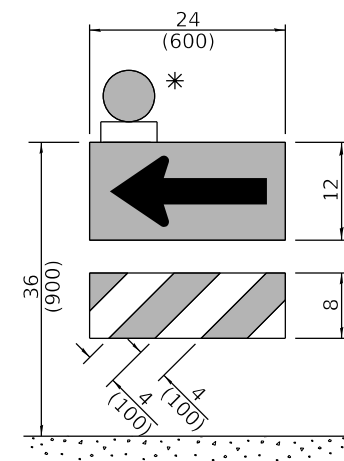
**TYPE I BARRICADE**



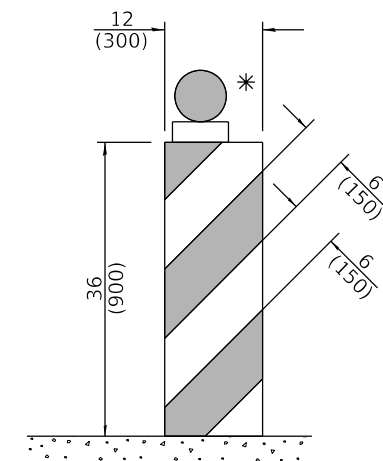
**TYPE II BARRICADE**



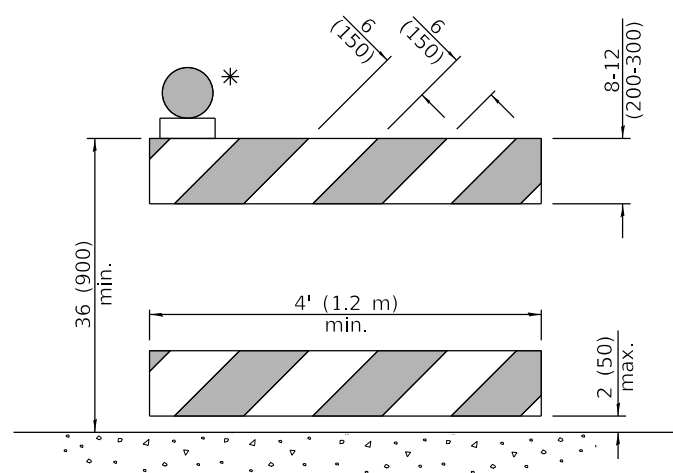
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 mm) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

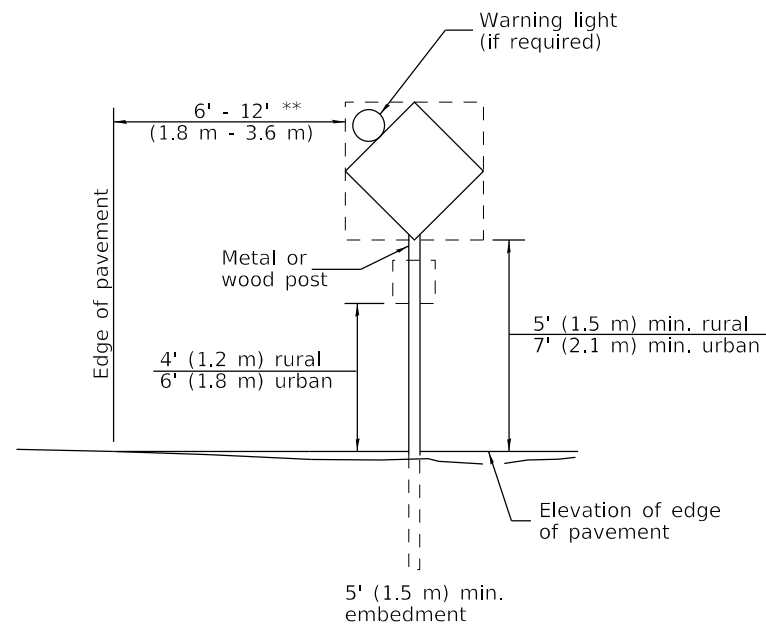
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

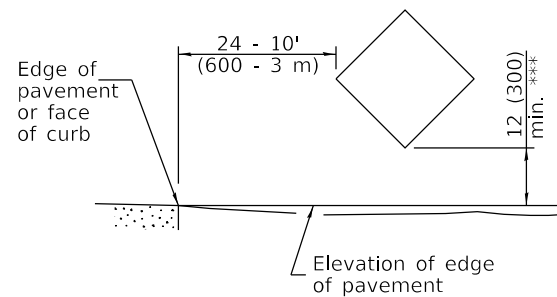
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
 ET-1-1



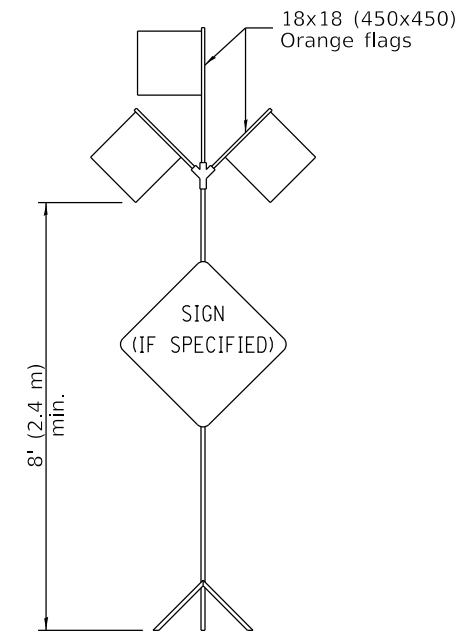
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

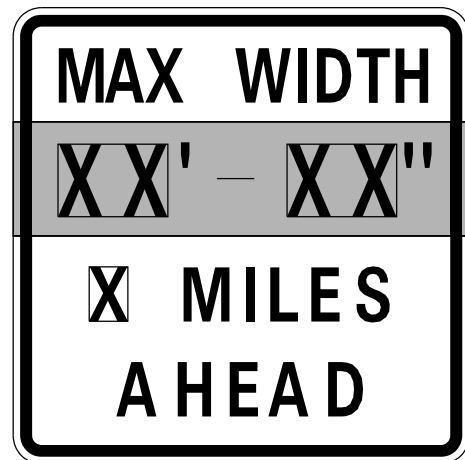


**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



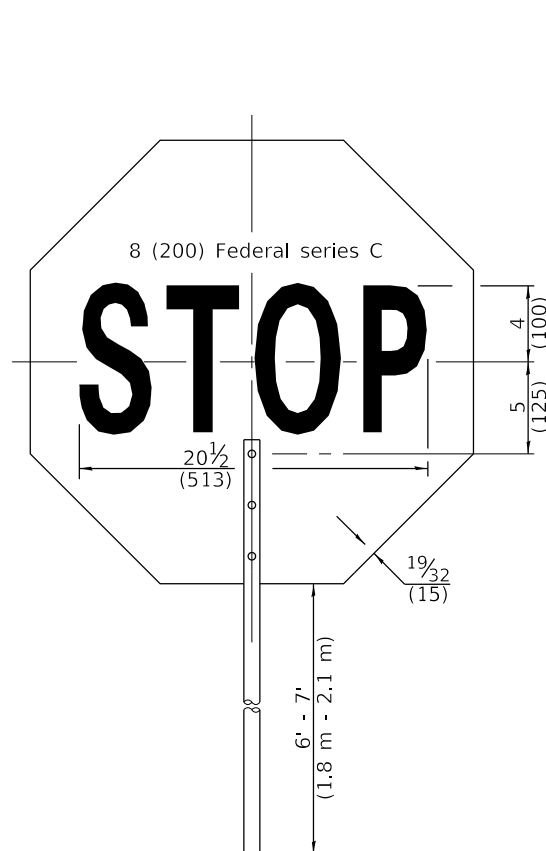
**HIGH LEVEL WARNING DEVICE**



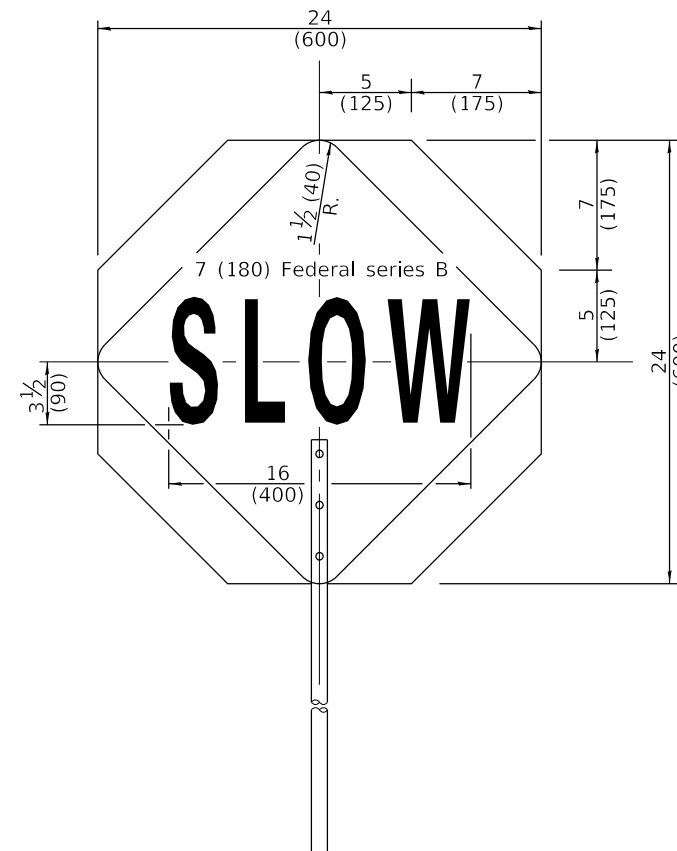
W12-I103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**



G20-I104(0)-6036



G20-I105(0)-6024

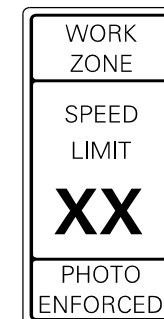
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**



W21-III5(0)-3618

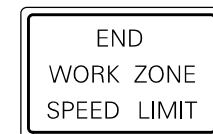
R2-1-3648

R10-I108p-3618 \*\*\*\*



R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

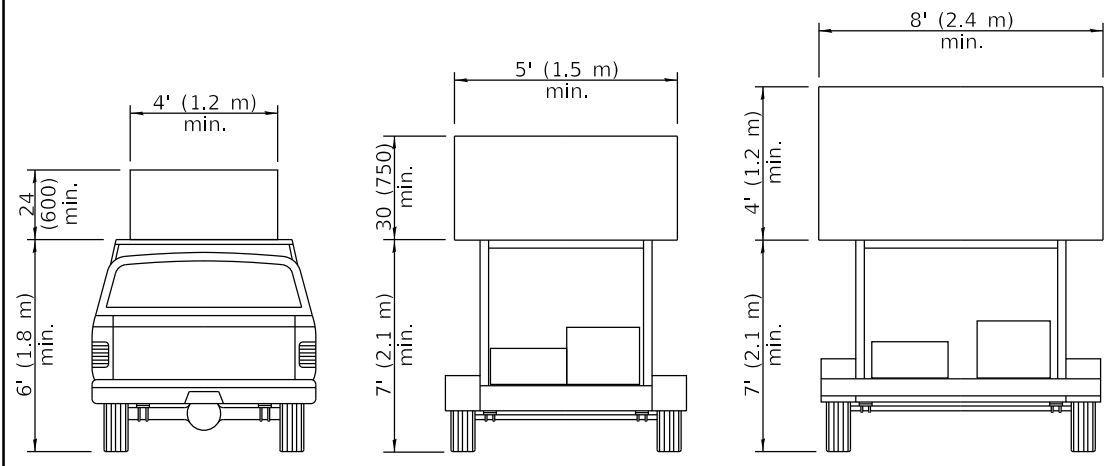
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
*Amber Watt*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*Joe E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

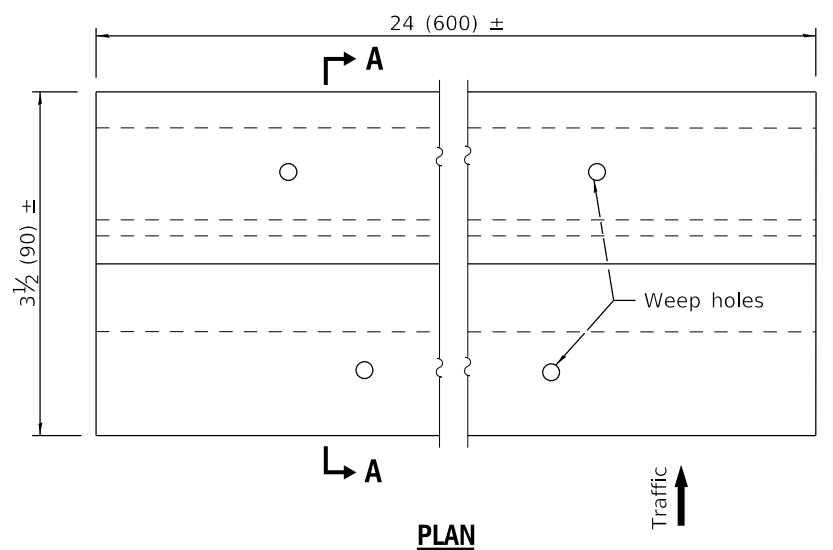


**TYPE A  
ROOF  
MOUNTED**

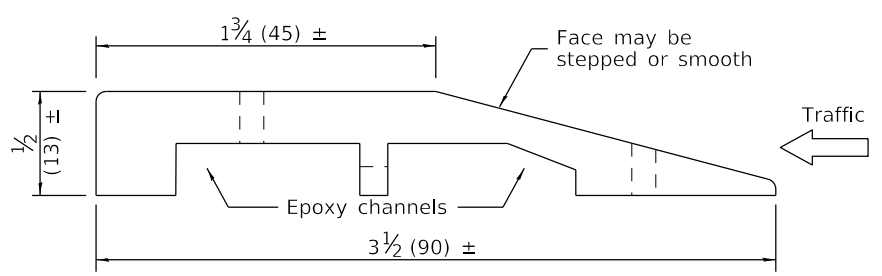
**TYPE B  
ROOF OR TRAILER  
MOUNTED**

**TYPE C  
TRAILER  
MOUNTED**

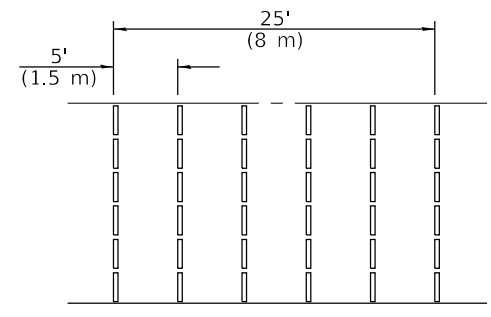
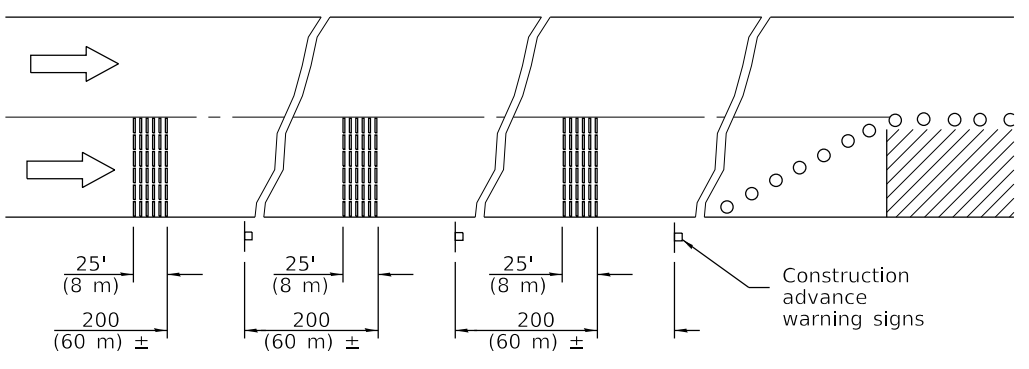
**ARROW BOARDS**



**PLAN**

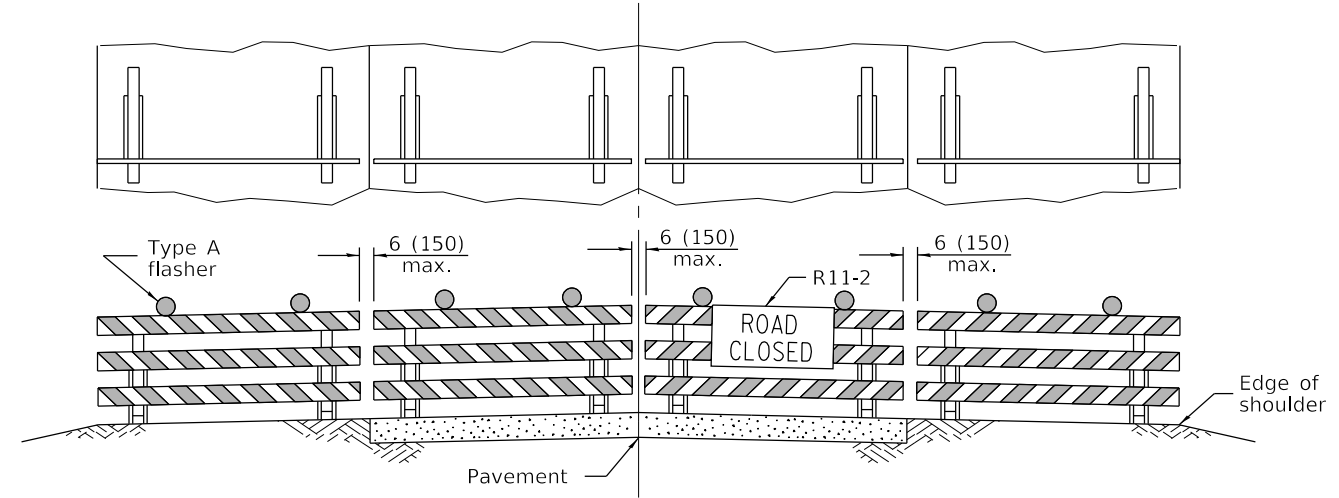


**SECTION A-A**



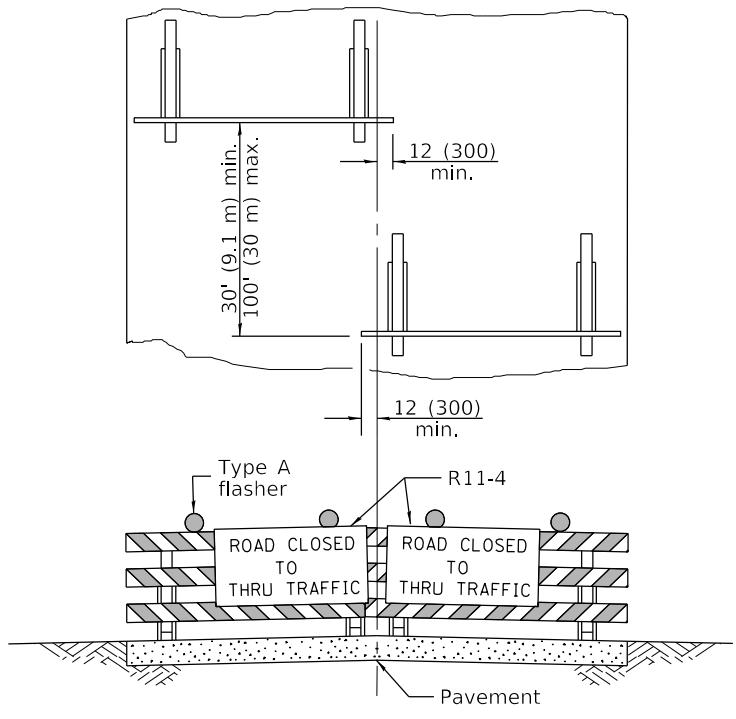
**TYPICAL INSTALLATION**

**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF  
TYPE III BARRICADES CLOSING A ROAD**

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

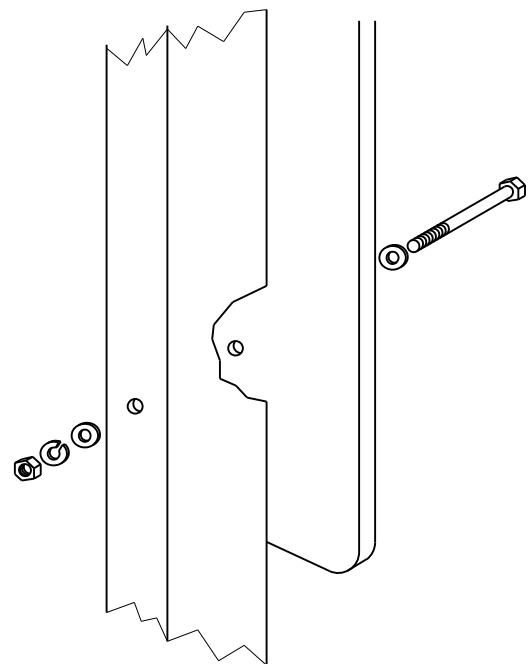
APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES  
E1-1-1 Q3551

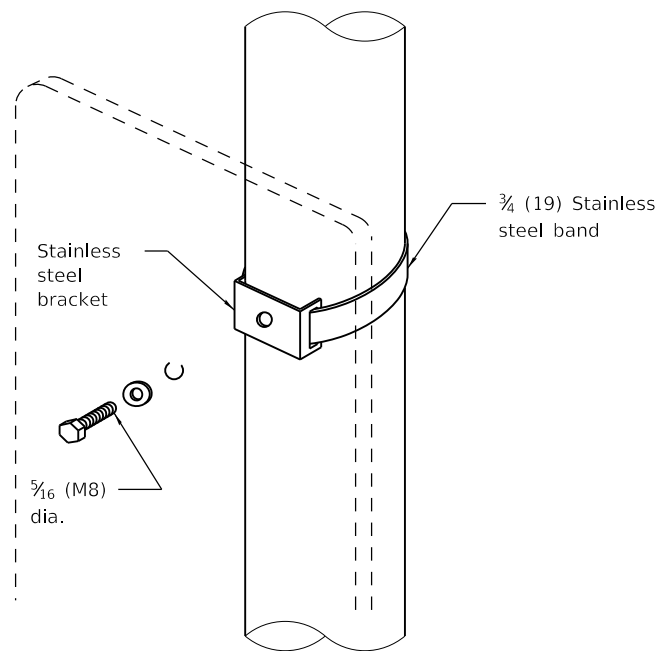
**TRAFFIC CONTROL  
DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

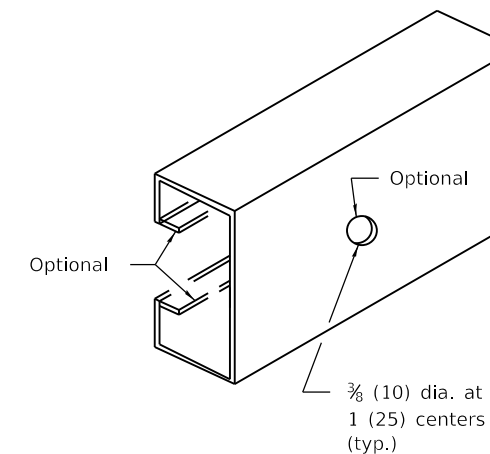
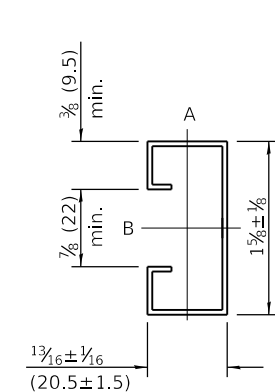


Sign panel 36 (900) wide or less

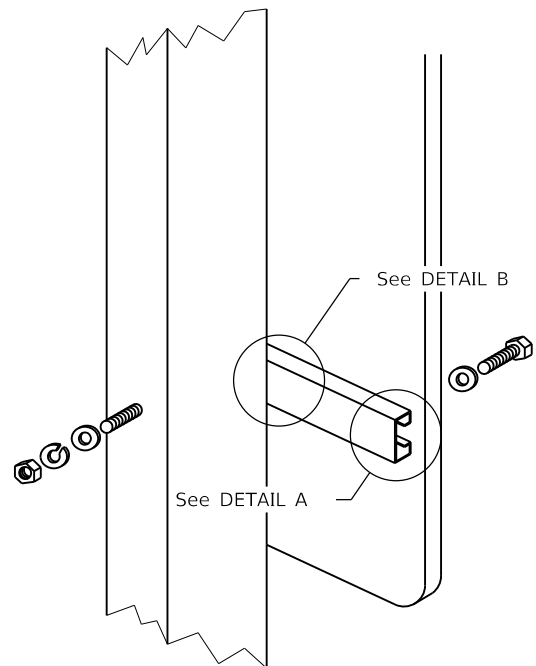


Sign panel 36 (900) wide or less

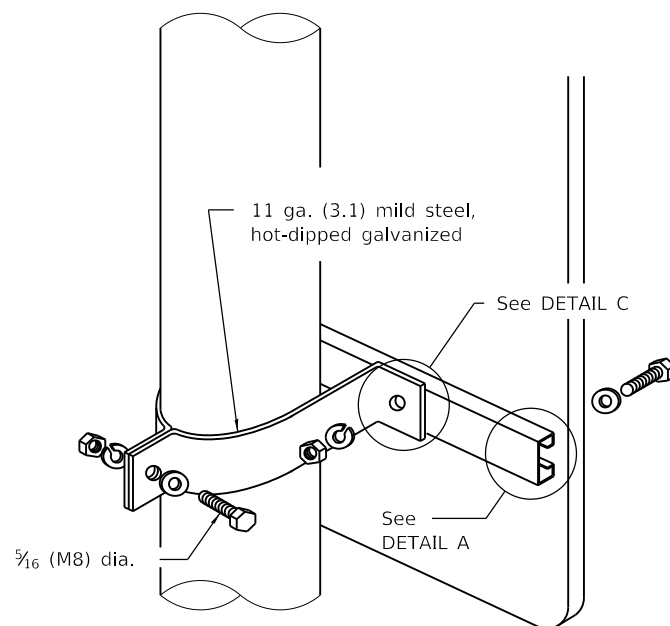
Section modulus (minimum)	Axis A	Axis B
Steel	0.050 in. <sup>3</sup> (819 mm <sup>3</sup> )	0.105 in. <sup>3</sup> (1720 mm <sup>3</sup> )
Aluminum	0.150 in. <sup>3</sup> (2458 mm <sup>3</sup> )	0.315 in. <sup>3</sup> (5162 mm <sup>3</sup> )



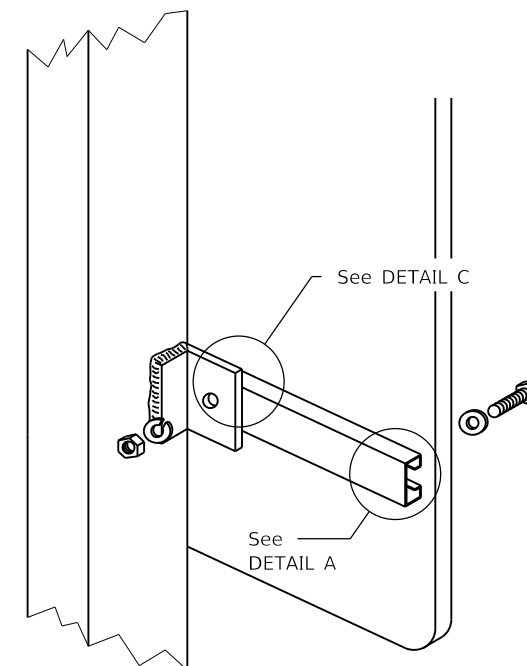
**SUPPORTING CHANNEL DETAILS**



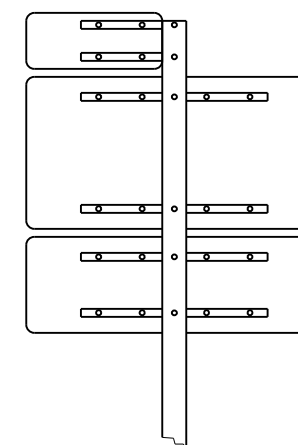
Sign panel over 36 (900) wide



Sign panel over 36 (900) wide



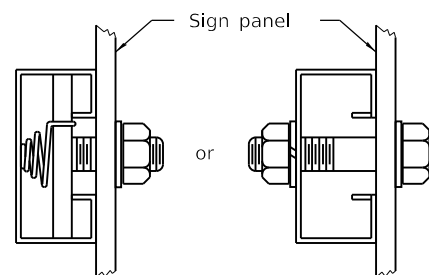
**ROUTE MARKER ASSEMBLY**



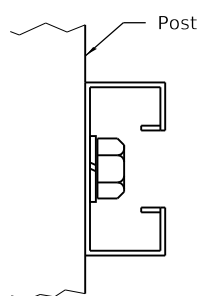
**WOOD OR TELESCOPING STEEL POSTS**

**LIGHT OR SIGNAL STANDARDS**

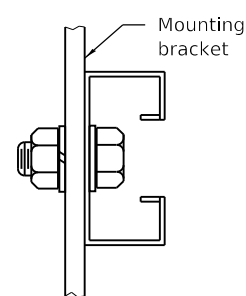
**BREAKAWAY STEEL TUBING POSTS**  
(All sign panel sizes)



**DETAIL A**



**DETAIL B**



**DETAIL C**

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2319-6.

**SIGN PANEL MOUNTING DETAILS**

**STANDARD 720001-01**

Illinois Department of Transportation

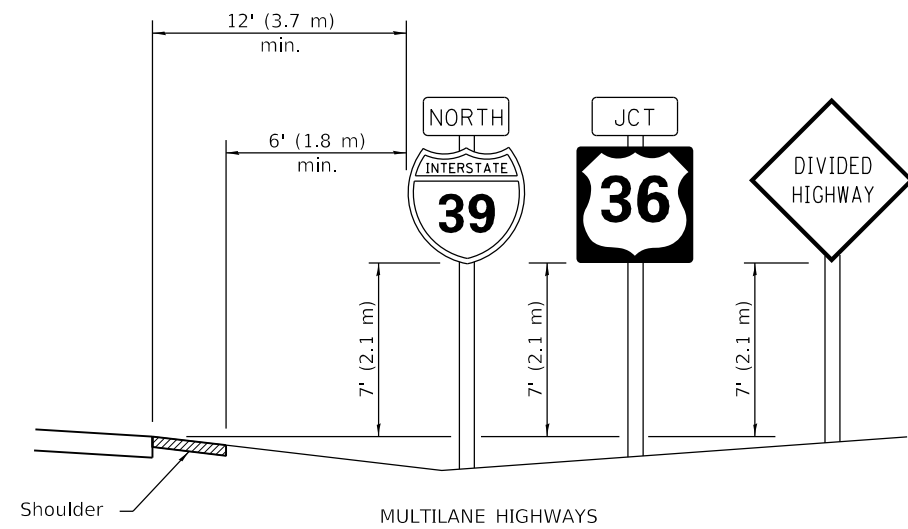
PASSED January 1, 2009

ENGINEER OF OPERATIONS

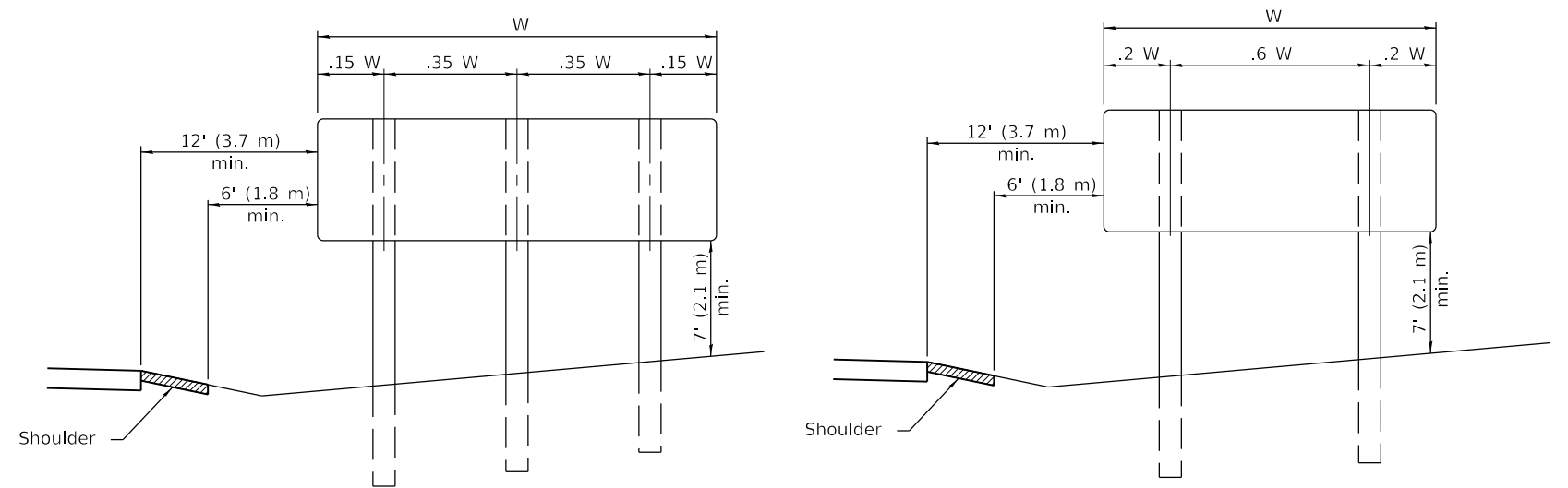
APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

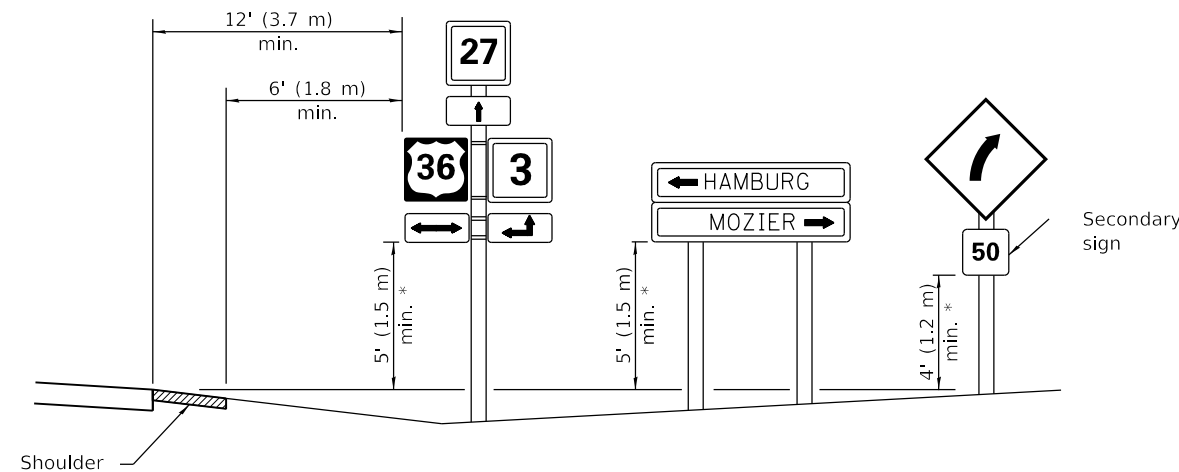
ISSUED 1-1-97



MULTILANE HIGHWAYS

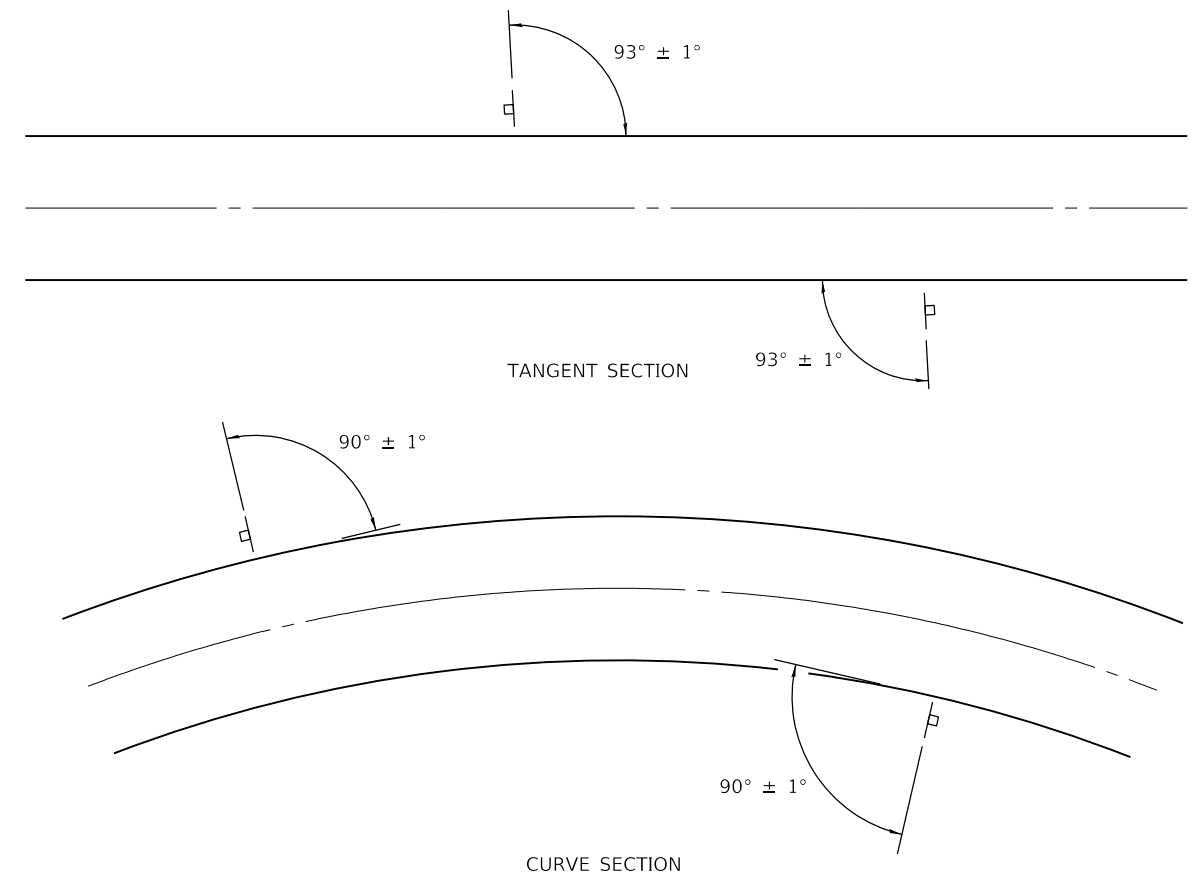


POST SPACING FOR NON-FREEWAY SIGN PANELS

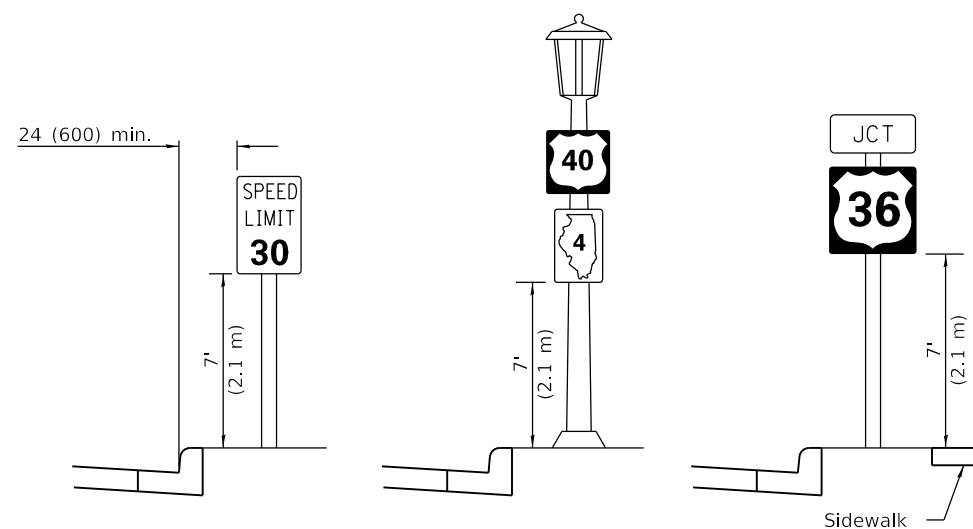


\* In any area where parking is likely to occur or where there are obstructions to view or where signs are located over sidewalks, the height shall be at least 7' (2.1 m).

TWO LANE RURAL HIGHWAYS



GROUND MOUNT SIGN POSITIONING



URBAN LOCATIONS

**TYPICAL INSTALLATIONS**

Signs in any area shall be erected to a uniform height above the edge of the pavement.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2014  
*Justin Mann*  
 ENGINEER OF OPERATIONS

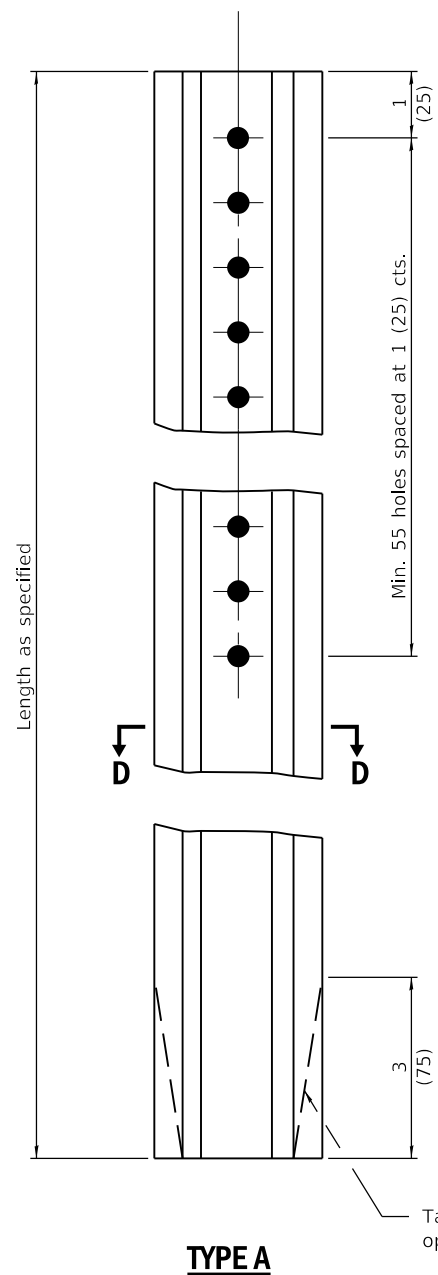
APPROVED January 1, 2014  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

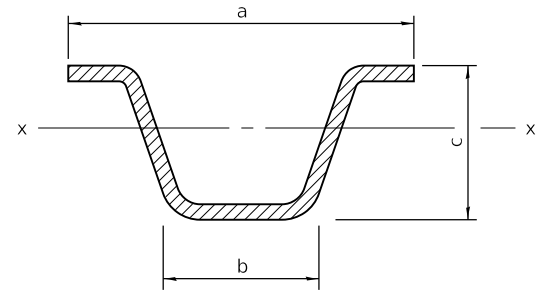
DATE	REVISIONS
1-1-14	Added shoulders and slopes. Changed sign distances from roadway and shoulder.
1-1-12	Rev. sign elev. for multilane hwy's. Revised sign elev. and dist. to curb for rural loc.

**SIGN PANEL  
ERECTION DETAILS**

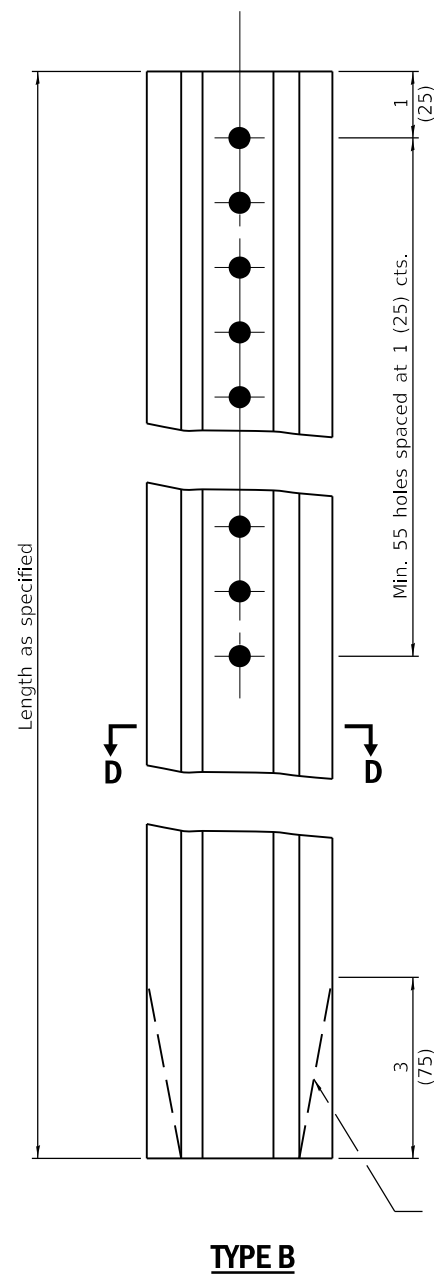
**STANDARD 720006-04**



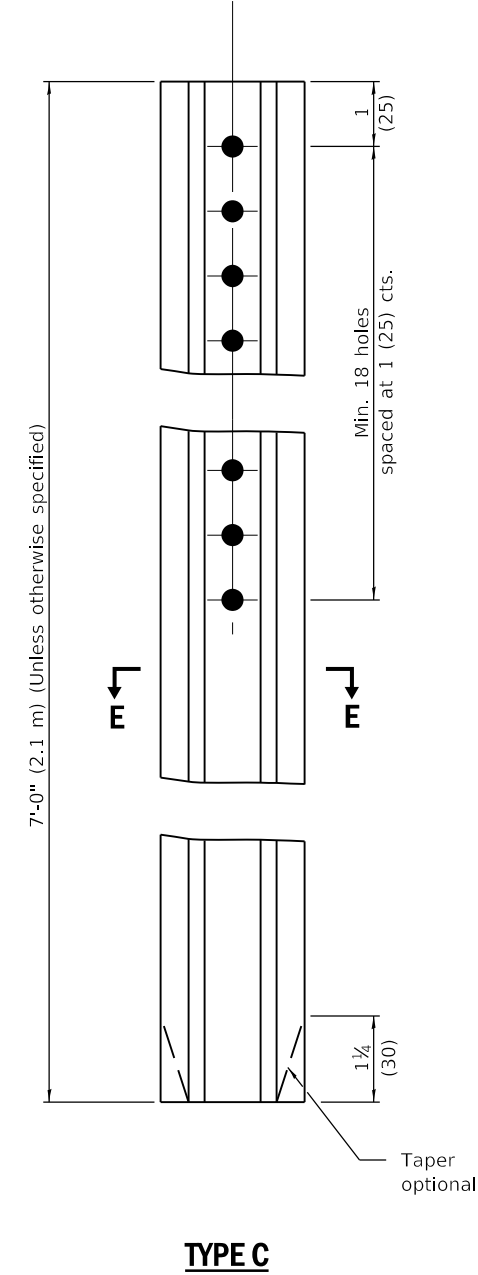
**TYPE A**



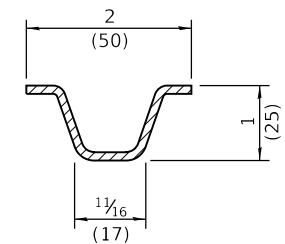
**SECTION D-D**



**TYPE B**



**TYPE C**



**SECTION E-E**

Steel - 1.12 lbs./ft. (1.67 kg/m)

		a	b	c	Sx-x in. <sup>3</sup> (mm <sup>3</sup> )	lbs./ft. (kg/m)
TYPE A	Steel	3 1/16 (78)	1 1/2 (32)	1 1/16 (37)	0.223 (3,654)	2.00 (2.98)
	Aluminum	3 1/2 (89)	1 1/2 (41)	1 1/2 (48)	0.435 (7,128)	0.90 (1.34)
TYPE B	Steel	3 3/16 (81)	1 1/2 (32)	1 1/2 (38)	0.341 (5,588)	3.00 (4.46)
	Aluminum	4 3/8 (118)	2 1/2 (57)	2 3/8 (60)	0.888 (14,552)	1.30 (1.93)

**GENERAL NOTES**

Dimensions shown for cross sections are minimum.

All holes are 3/8 (10).

Sx-x is the minimum section modulus about the x-x axis of the post as shown. For posts in which holes are punched or drilled for more than half their length, Sx-x shall be computed for the net section.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2350-4.

**METAL POSTS FOR SIGNS,  
MARKERS & DELINEATORS**

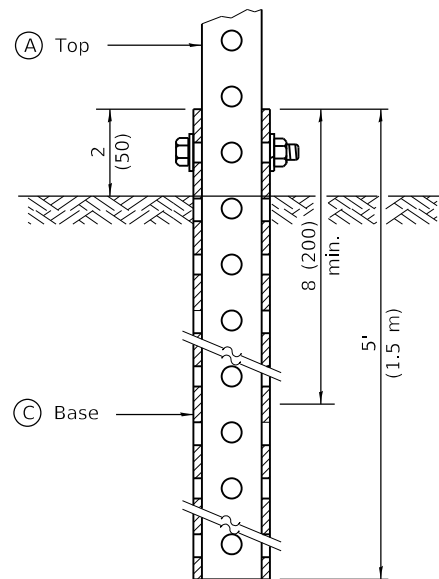
**STANDARD 720011-01**

Illinois Department of Transportation

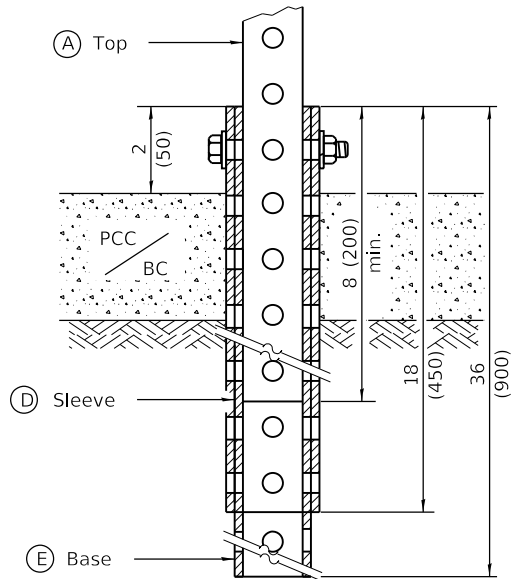
PASSED January 1, 2009  
  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

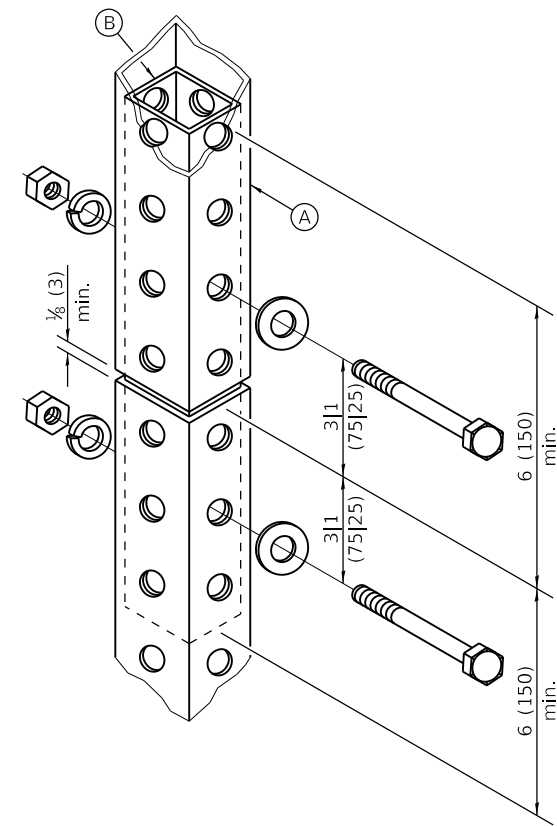
ISSUED 1-1-97



**GROUND MOUNT DETAIL**



**PAVEMENT MOUNT DETAIL**



**SPLICE DETAIL**

(A)	2 x 2 x var. (51 x 51 var.)
(B)	1 3/4 x 1 3/4 x 12 (44 x 44 x 300)
(C)	2 1/4 x 2 1/4 x 60 (57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
(E)	2 1/4 x 2 1/4 x 36 (57 x 57 x 900)

**GENERAL NOTES**

All bolts 3/8 (M10) hex head zinc or cadmium plated.

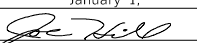
All dimensions are in inches (millimeters) unless otherwise shown.

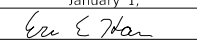
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

**TELESCOPING STEEL SIGN SUPPORT**

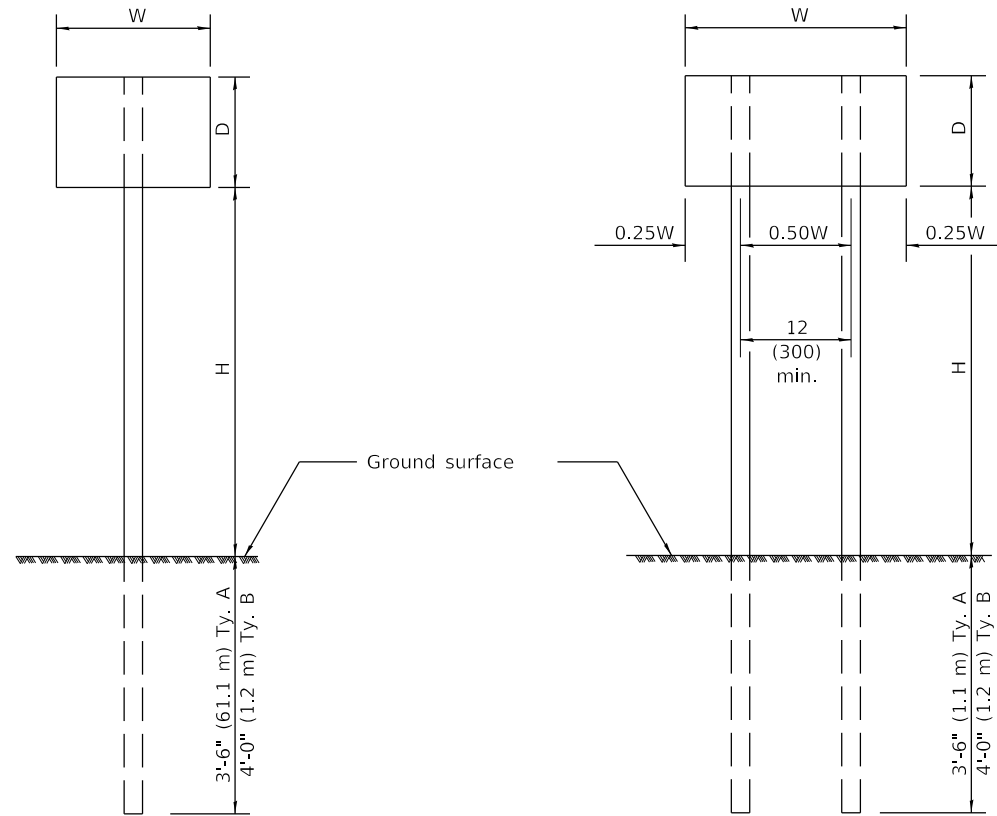
**STANDARD 728001-01**

Illinois Department of Transportation

PASSED January 1, 2009  
  
 ENGINEER OF OPERATIONS

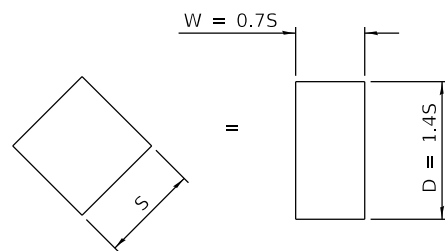
APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07



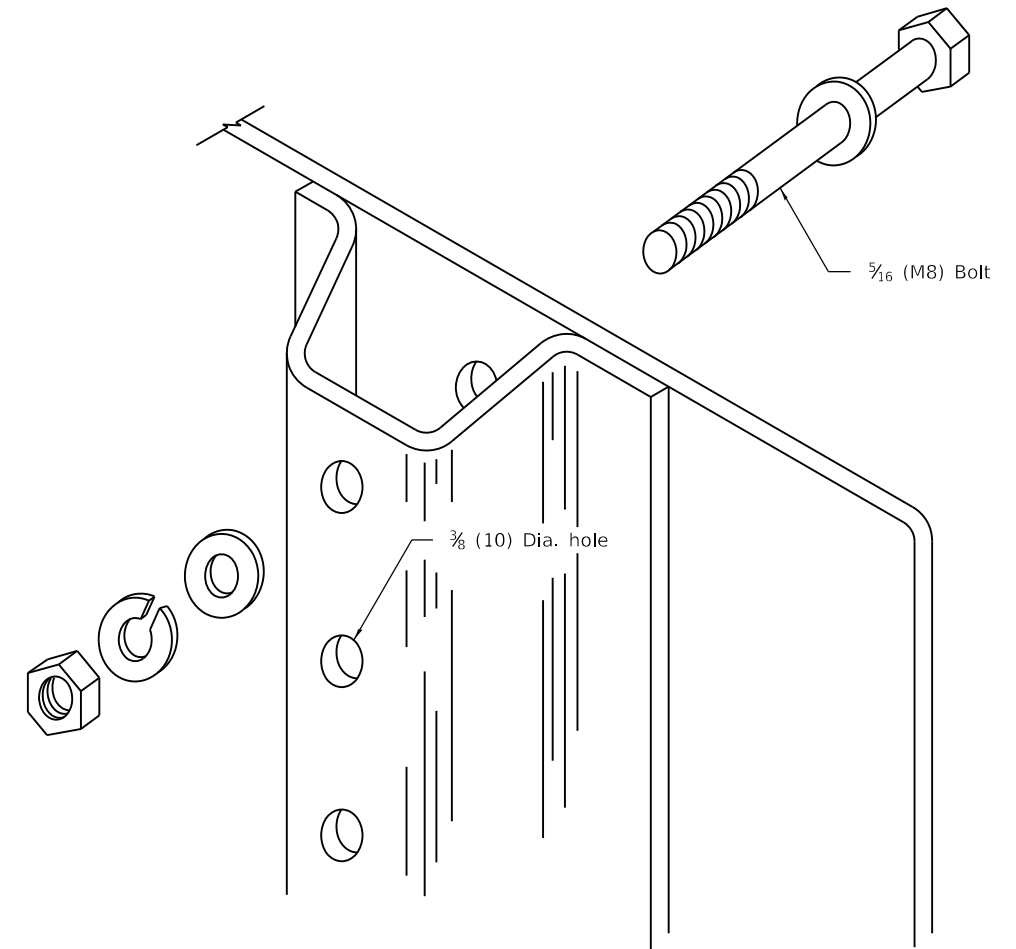
**ONE POST INSTALLATION**

**TWO POST INSTALLATION**



For diamond shaped sign with side S as shown, use required post size for a sign with  $W = 0.7S$  and  $D = 1.4S$ .

SIGN DEPTH (D)	H	NO. AND TYPE OF POST FOR SIGN WIDTH (W)				
		12 (300)	18 (450)	24 (600)	30 (750)	36 (900)
18 (450)	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	B
	6'-6" (2.0 m)	A	A	A	A	B
	7'-0" (2.1 m)	A	A	A	A	B
	7'-6" (2.3 m)	A	A	A	A	B
	8'-0" (2.4 m)	A	A	A	A	B
	9'-0" (2.7 m)	A	A	A	B	B
24 (600)	5'-0" (1.5 m)	A	A	A	A	B
	5'-6" (1.7 m)	A	A	A	A	B
	6'-0" (1.8 m)	A	A	A	B	B
	6'-6" (2.0 m)	A	A	A	B	B
	7'-0" (2.1 m)	A	A	A	B	B
	7'-6" (2.3 m)	A	A	A	B	B
	8'-0" (2.4 m)	A	A	A	B	2A
	9'-0" (2.7 m)	A	A	B	B	2A
30 (750)	5'-0" (1.5 m)	A	A	A	B	B
	5'-6" (1.7 m)	A	A	A	B	2A
	6'-0" (1.8 m)	A	A	A	B	2A
	6'-6" (2.0 m)	A	A	A	B	2A
	7'-0" (2.1 m)	A	A	B	B	2A
	7'-6" (2.3 m)	A	A	B	B	2A
	8'-0" (2.4 m)	A	A	B	B	2A
	9'-0" (2.7 m)	A	A	B	2A	2A
36 (900)	5'-0" (1.5 m)	A	A	B	B	2A
	5'-6" (1.7 m)	A	A	B	B	2A
	6'-0" (1.8 m)	A	A	B	B	2A
	6'-6" (2.0 m)	A	A	B	2A	2A
	7'-0" (2.1 m)	A	A	B	2A	2A
	7'-6" (2.3 m)	A	A	B	2A	2A
	8'-0" (2.4 m)	A	B	B	2A	2A
	9'-0" (2.7 m)	A	B	2A	2A	2B
4'-0" (1.2 m)	5'-0" (1.5 m)	A	A	B	2A	2A
	5'-6" (1.7 m)	A	B	B	2A	2A
	6'-0" (1.8 m)	A	B	B	2A	2A
	6'-6" (2.0 m)	A	B	2A	2A	2B
	7'-0" (2.1 m)	A	B	2A	2A	2B
	7'-6" (2.3 m)	A	B	2A	2B	2B
	8'-0" (2.4 m)	A	B	2A	2B	2B
	9'-0" (2.7 m)	B	2A	2B	2B	2B



**DETAIL OF MOUNTING SIGN TO POST**

NOTE: Minimum of 2 bolts per post required.

**GENERAL NOTES**

DESIGN: Current AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

LOADING: for 60 mph (95 km/h) wind velocity with 30% gust factor, normal to sign.

SOIL PRESSURE: Minimum allowable soil pressure 1.25 tsf (120 kPa).

See Standard 720011 for details of Types A and B posts.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2363-2.

**APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)**

**STANDARD 729001-01**

Illinois Department of Transportation

PASSED January 1, 2009

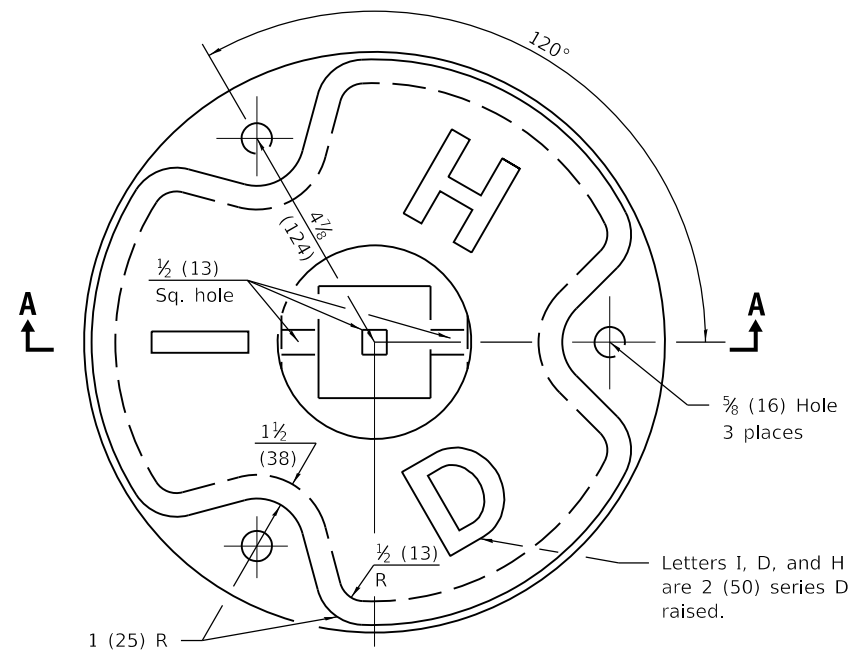
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

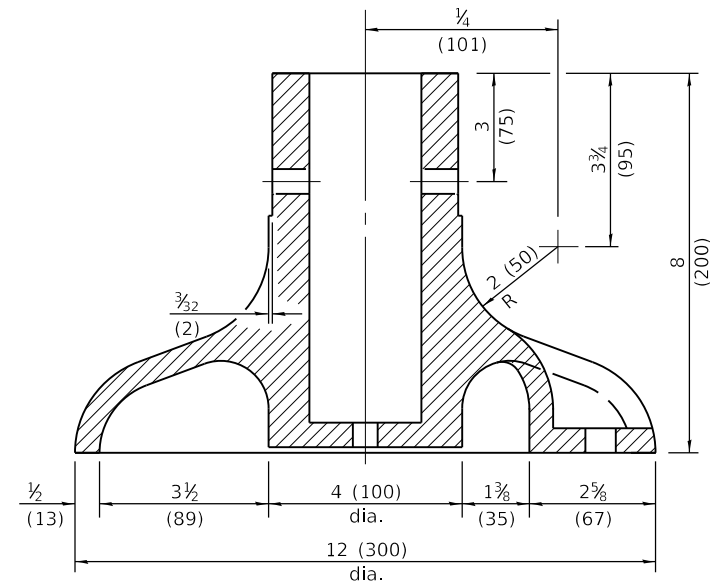
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

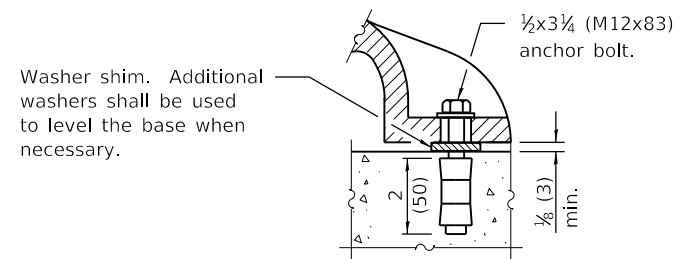




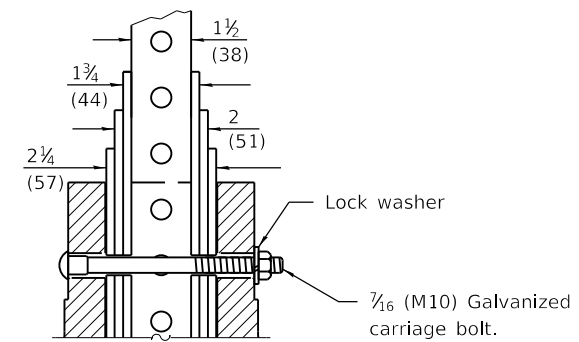
**PLAN**



**SECTION A-A**



**ANCHOR BOLT DETAIL**



**POST ASSEMBLY DETAIL**

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2009  
 ENGINEER OF OPERATIONS

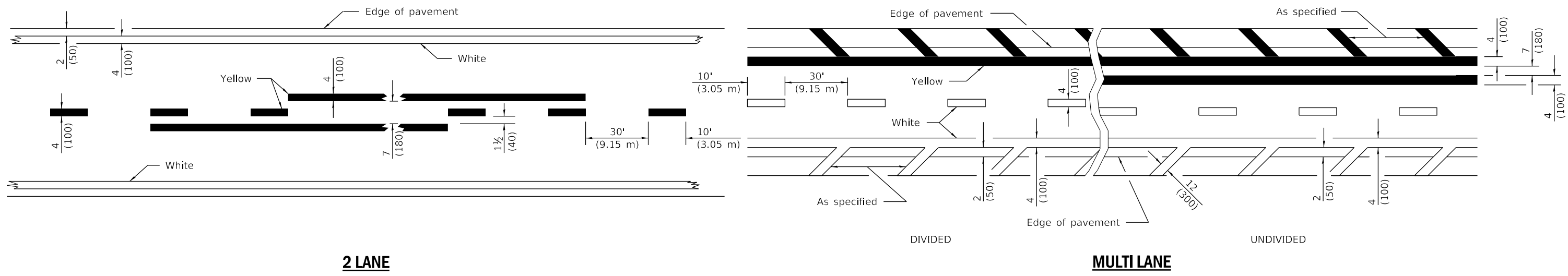
APPROVED January 1, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

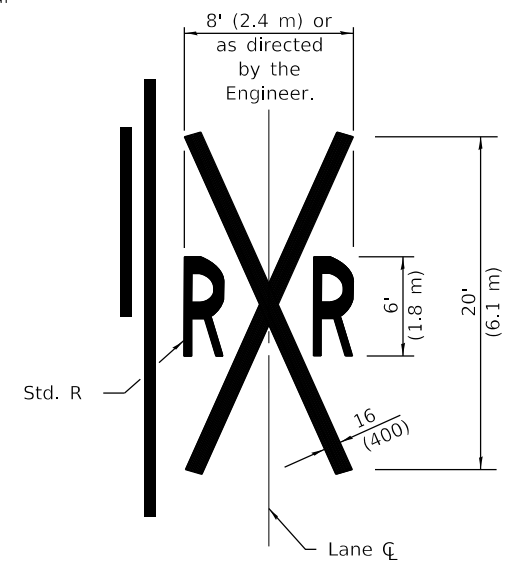
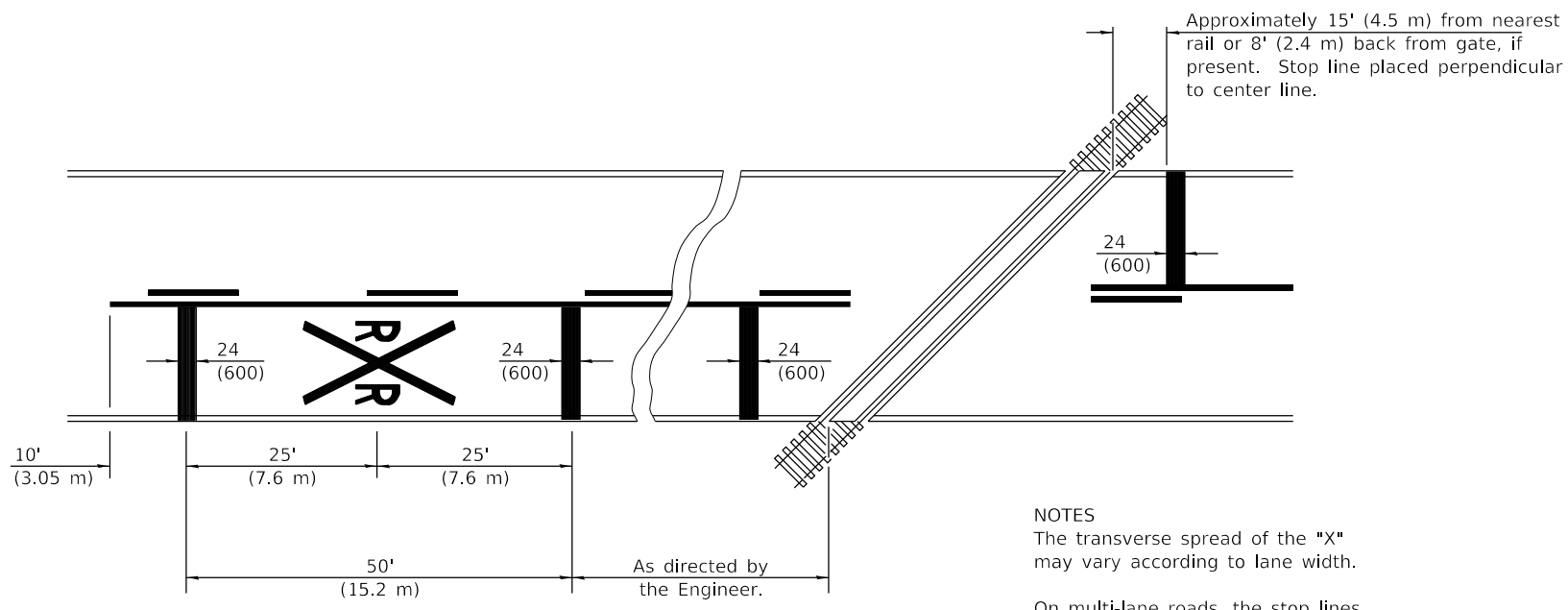
DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

**BASE FOR TELESCOPING STEEL SIGN SUPPORT**

**STANDARD 731001-01**



**LANE AND EDGE LINES**



**NOTES**  
 The transverse spread of the "X" may vary according to lane width.  
 On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.  
 When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2015  
 Amy Allen  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2015  
 ENGINEER OF DESIGN AND ENVIRONMENT

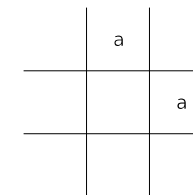
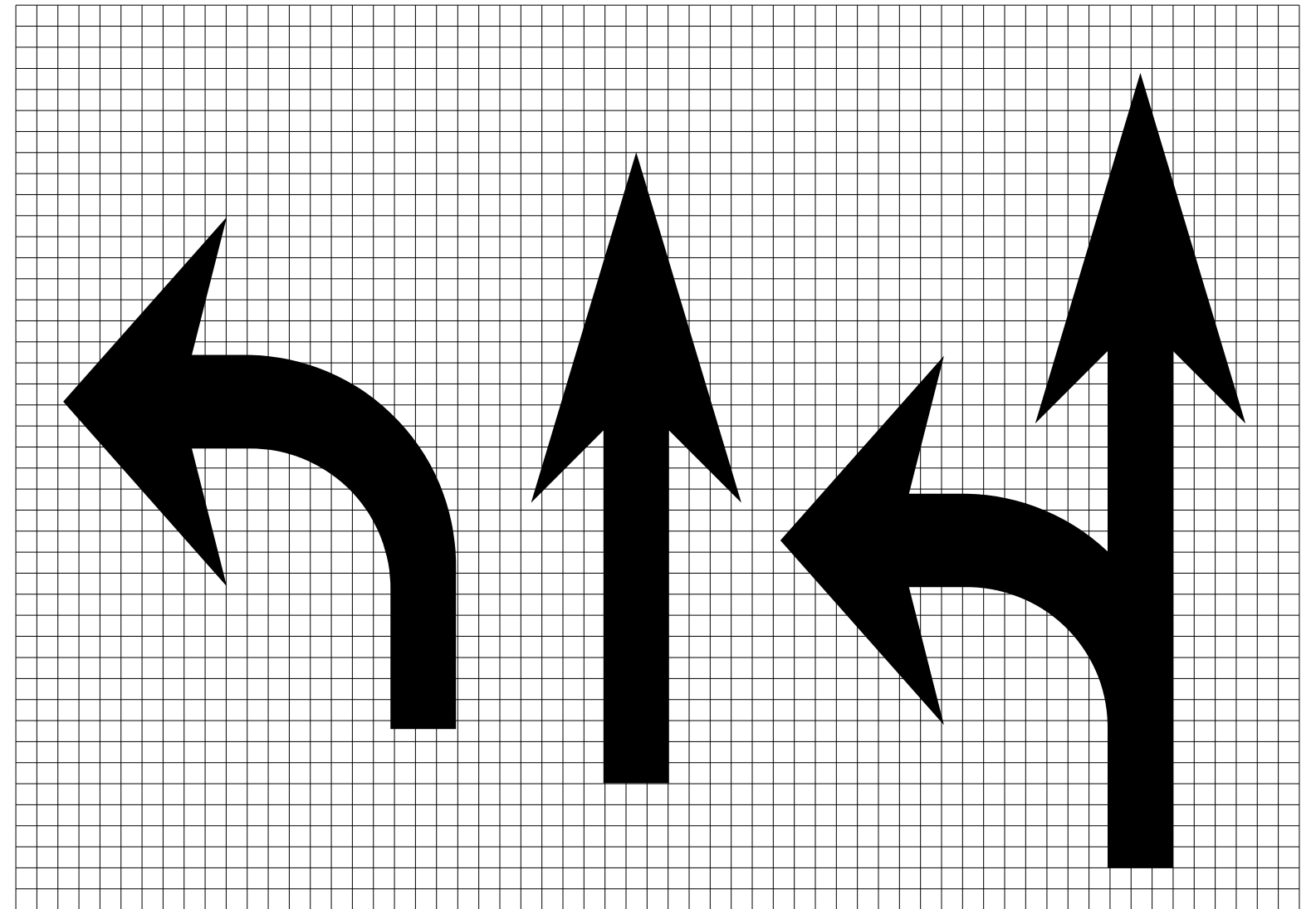
ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed 'LANE DROP ARROW' detail to 'LANE-REDUCTION ARROW'.

**TYPICAL PAVEMENT MARKINGS**

(Sheet 1 of 3)


**STANDARD 780001-05**



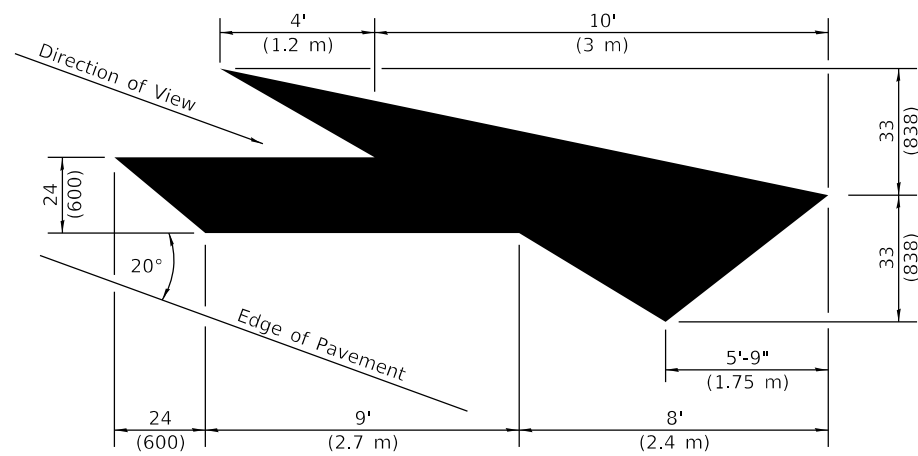
Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

**LETTER AND ARROW GRID SCALE**

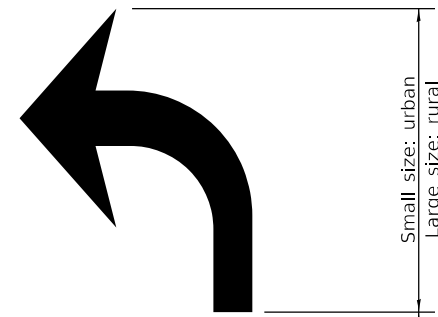
 Illinois Department of Transportation  
 PASSED January 1, 2015  
*Amy Eller*  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
*RE*  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 ISSUED 1-1-97

**TYPICAL PAVEMENT MARKINGS**  
 (Sheet 2 of 3)  
**STANDARD 780001-05**



**LANE-REDUCTION ARROW**

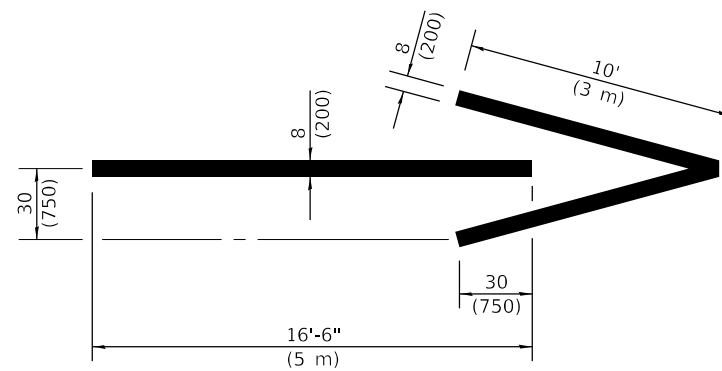
Right lane-reduction arrow shown.  
Use mirror image for left lane.



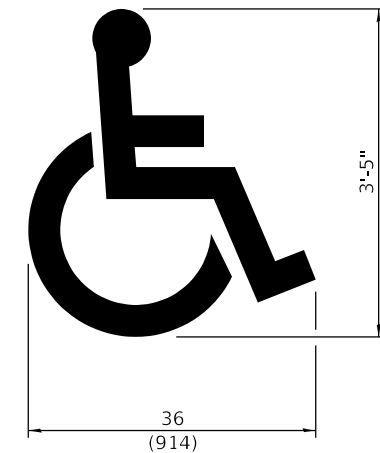
20' (6 m): urban  
50' (15 m): rural  
(Between arrow  
and word or  
between words)



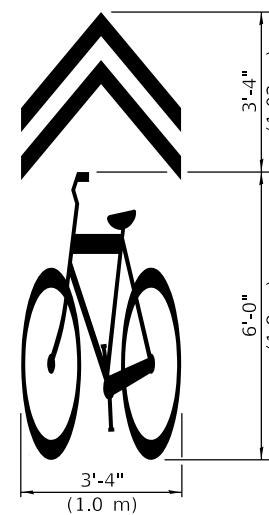
**WORD AND ARROW LAYOUT**



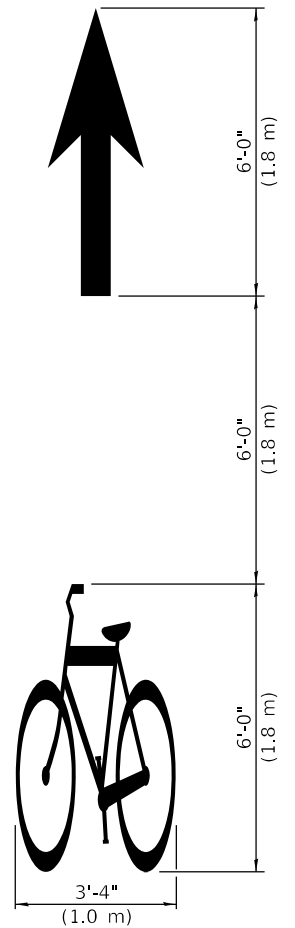
**WRONG WAY ARROW**



**INTERNATIONAL  
SYMBOL OF  
ACCESSIBILITY**



**SHARED LANE  
SYMBOL**



**BIKE SYMBOL**  
(Arrow is optional.)

Illinois Department of Transportation

PASSED January 1, 2015  
*Amy Allen*  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2015  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

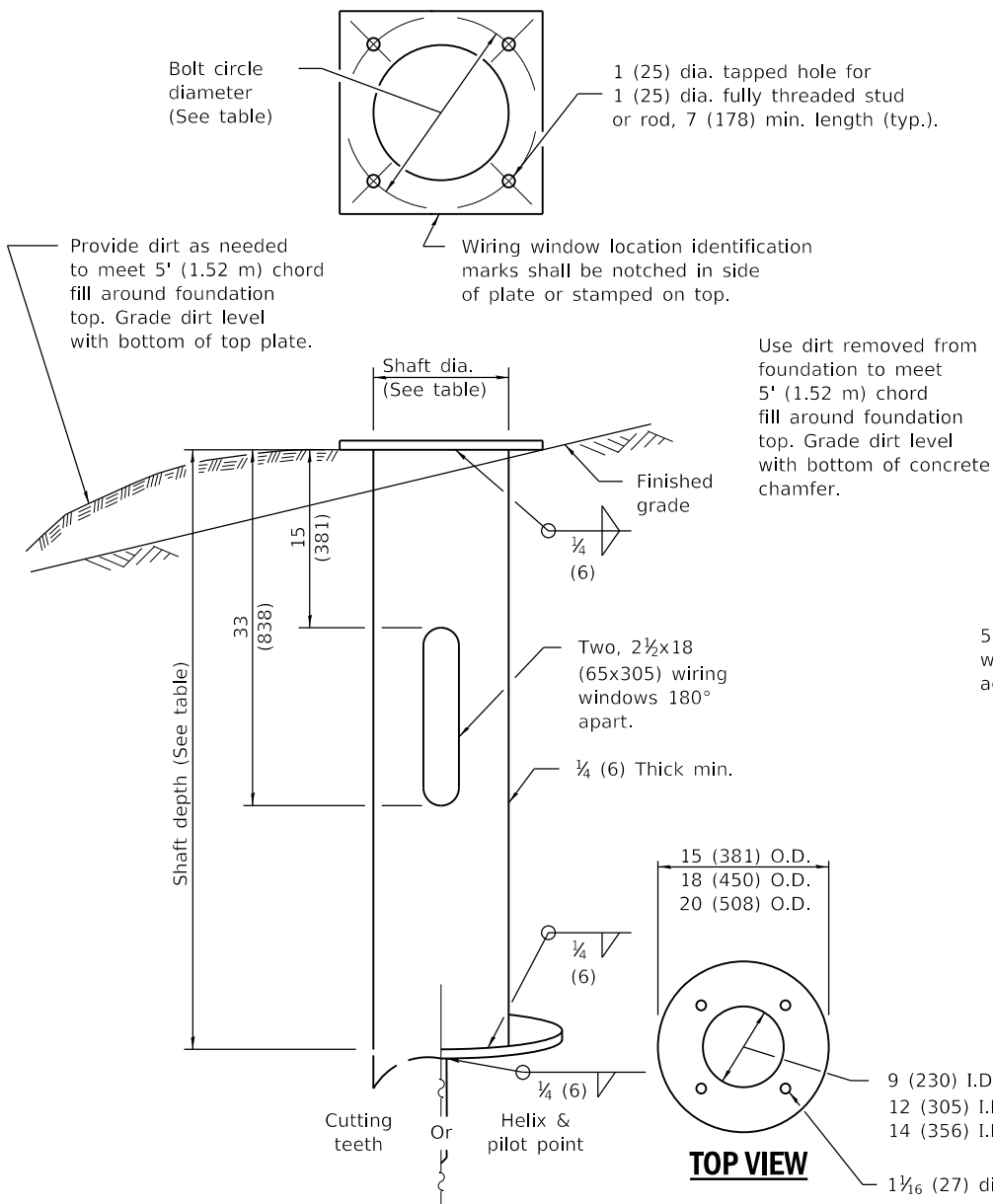
**TYPICAL PAVEMENT  
MARKINGS**

(Sheet 3 of 3)

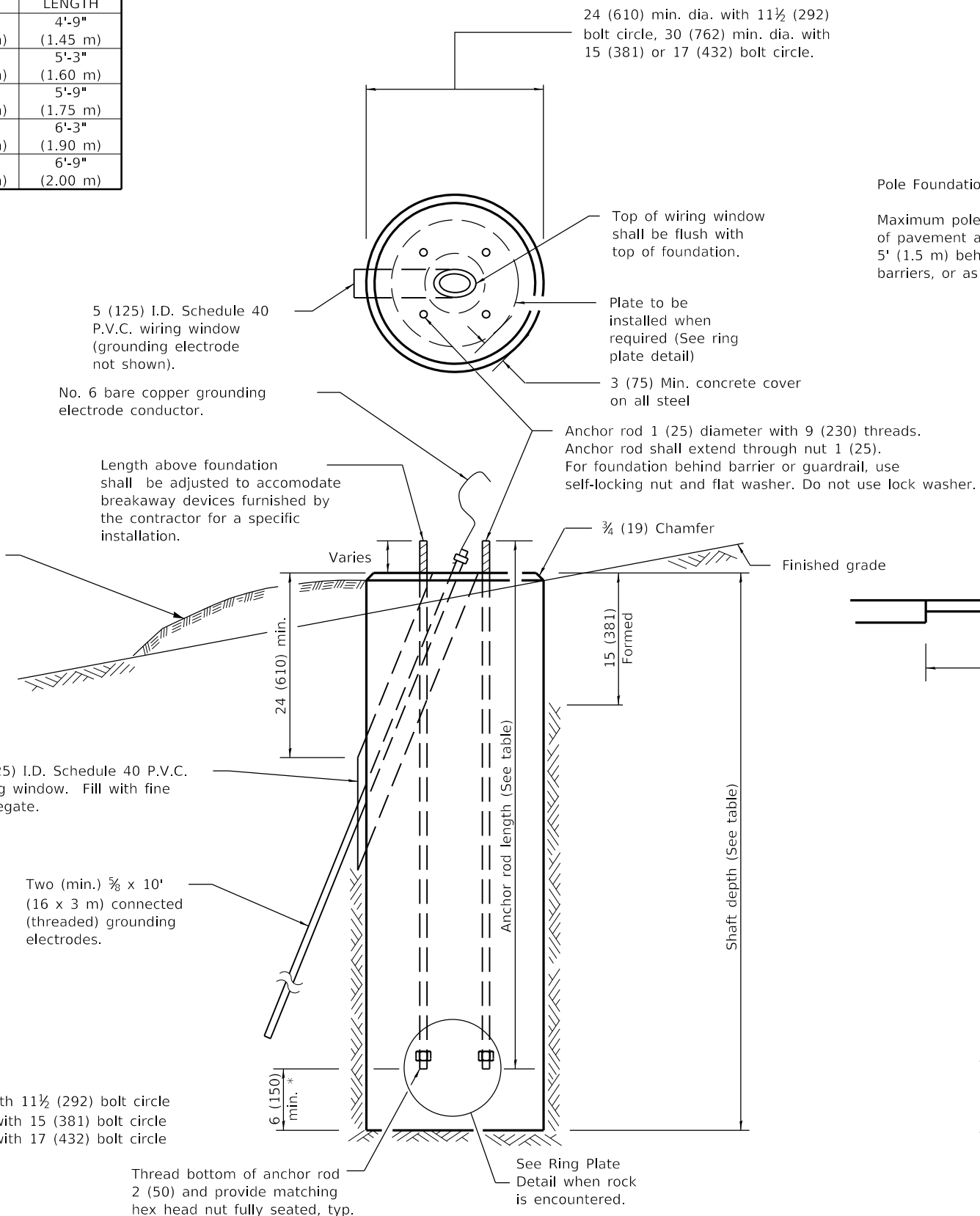
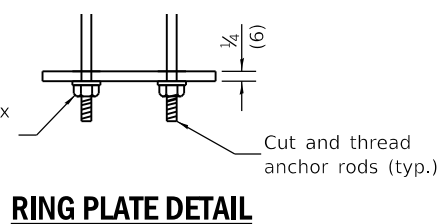
**STANDARD 780001-05**

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	METAL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH
≤30' (9.1 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381) ②	8⅝ (220)	6' (1.83 m) ①	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381) ②	8⅝ (220)	6' (1.83 m) ①	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381) ②	8⅝ (220)	8' (2.44 m)	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	7'-0" (2.13 m)	6'-9" (2.00 m)

- ① 8⅝ x 8'-0" (220 x 2.44 m) for twin luminaires.
- ② Bolt circle diam. shall be 17 (430) when a transformer base is used.

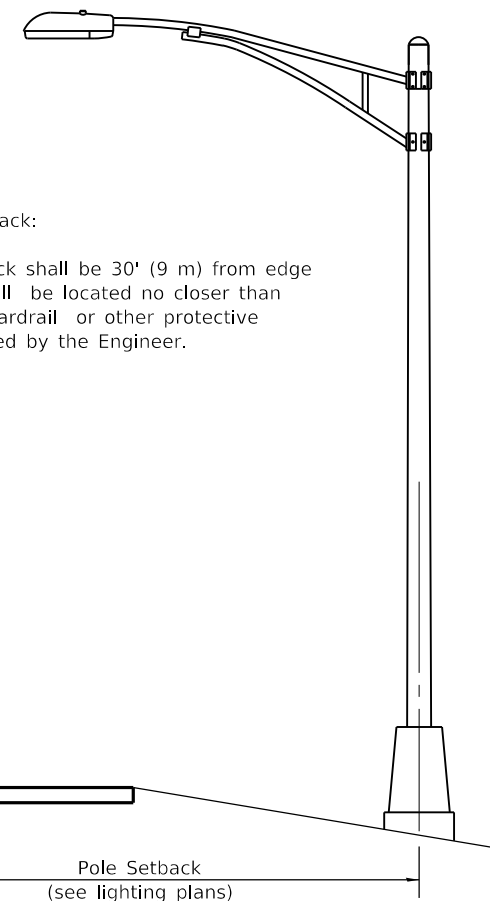


**METAL FOUNDATION**



**CONCRETE FOUNDATION**

\* If the required anchor rod length above top of foundation is less than 3 (75), anchor rods may be lowered below 6 (150).



**GENERAL NOTES**

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance of metal foundations and notify the Engineer if other conditions are encountered.

When rock is encountered the foundation depth may be reduced 6 (150) for every 12 (300) of embedment in rock. The minimum foundation depth shall be 4'-6" (1.37 m) with cut anchor rods 6 (150) above bottom of excavated hole. See ring plate detail.

Anchor rods shall be increased in diameter as needed for 50' (15.2 m) mounting height or above. The Contractor shall match the breakaway device size or slotted hole size in the pole base plate to accommodate larger rod sizes.

Transformer bases shall not be used on metal foundations.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Omitted multimount luminaire to agree with BDE Manual.
1-1-18	Replaced rod hooks with nuts.

**LIGHT POLE FOUNDATION**

**STANDARD 836001-04**

Illinois Department of Transportation

PASSED January 1, 2019

ME Reppelt  
ELECTRICAL AND MECHANICAL UNIT CHIEF

APPROVED January 1, 2019

J. E. ...  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-10