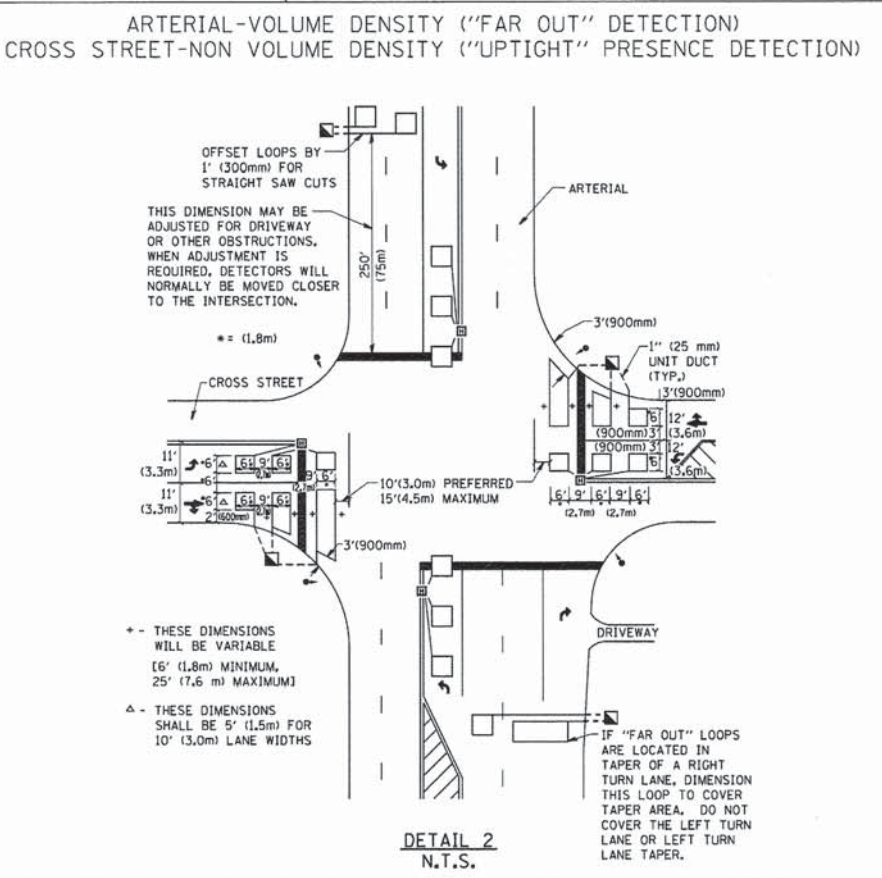
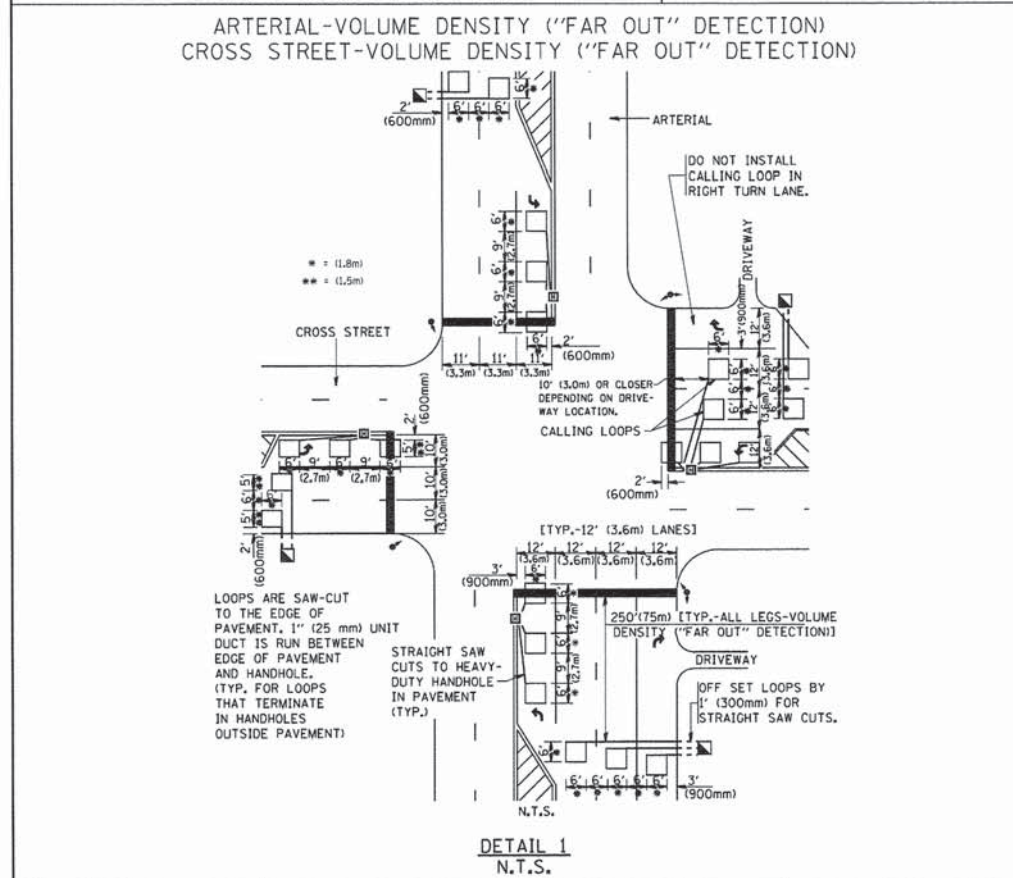


- #### NOTES:
- ##### VEHICLES LOOP DETECTORS
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
 - * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
 - * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
 - * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
 - * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
 - * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
 - * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.



- #### PLACEMENT OF DETECTORS
- THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.
- LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.
- "FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.
- NOTE:
ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995
- THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-07		CONTRACT NO.		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

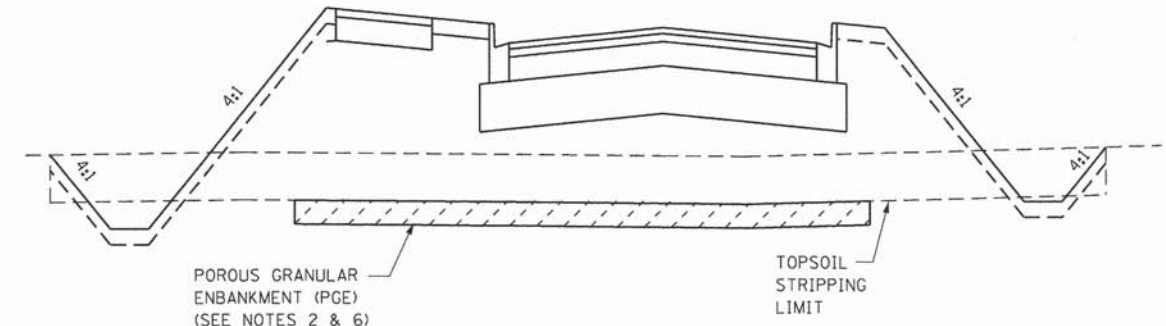
**IDOT D1 STANDARD DRAWINGS
UNIVERSITY PARKWAY**

SCALE: SHEET 17 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	96-00014-01-PV	WILL	119	101
CONTRACT NO. 61A75				
(ILLINOIS) FED. AID PROJECT				

EARTHWORK GENERAL NOTES

- ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS. SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT, ARE ESTIMATED FOR THE SOLE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.
- IN DEVELOPING THE EARTHWORK QUANTITIES FOR THIS PROJECT, IT WAS ASSUMED THAT IN THOSE AREAS WHERE SOIL BORINGS INDICATED THAT UNDERCUT/PGE IS REQUIRED, ALL THE EXCAVATED MATERIAL MEASURED BY METHOD OF AVERAGE END AREAS IN THAT CROSS ROADWAY SECTION WILL BE CONSIDERED UNSUITABLE OR UNSTABLE MATERIAL.
- TOPSOIL STRIPPING WILL BE MEASURED FOR PAYMENT AS UNSUITABLE OR UNSTABLE MATERIAL.
- ALL SURPLUS MATERIAL SHALL BE HAULED OFF SITE, REGARDLESS OF THE TYPE OF MATERIAL. COST OF DISPOSING THE EXCESS MATERIALS OFF SITE SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED EARTHWORK ITEM.
- IN ADDITION TO NUCLEAR DENSITY TESTING OF EMBANKMENTS AND SUBGRADES, THE FINAL SHALL BE PROOF ROLLED USING A FULLY LOADED SEMI TRUCK. THE PROOF-ROLL SHOULD DEMONSTRATE A MAXIMUM ONE-QUARTER (1/4) INCH DEFLECTION AT TOP OF SUBGRADE LEVEL. THE NUMBER OF PROOF ROLLS SHALL AS REQUIRED BY THE ENGINEER AND THEY SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGEs WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- GEOTEXTILE FABRIC WILL BE PLACED UNDER THE 12" AGGREGATE SUBGRADE. IN THOSE AREAS WHERE ADDITIONAL UNDERCUT AND PGE IS REQUIRED IMMEDIATELY BELOW THE AGGREGATE SUBGRADE, THE GEOTEXTILE FABRIC WILL BE PLACED AT THE BOTTOM OF THE UNDERCUT. IF THE UNDERCUT AND PGE AREA ARE CONSTRUCTED AT AN ELEVATION BELOW THE AGGREGATE SUBGRADE AND SOIL EMBANKMENT WILL BE CONSTRUCTED ON TOP OF THE PGE, A LAYER OF GEOTEXTILE FABRIC WILL BE PLACED BELOW THE UNDERCUT AREA AND ALSO AT THE BOTTOM OF THE AGGREGATE SUBGRADE. ALL FABRIC PLACED WILL BE MEASURED FOR PAYMENT.
- EARTH SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.



EARTHWORK TYPICAL CROSS-SECTION

LOCATION	EARTH EXCAVATION 20200100 (C.Y.)	UNSUITABLE OR UNSTABLE MATERIALS 20200200 (C.Y.)		EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15%) (C.Y.)	EMBANKMENT (C.Y.)	EARTHWORK BALANCE EXCESS (+) SHORTAGE (-) (C.Y.)	TOPSOIL PLACEMENT 4" - 21101615 6" - 21101625 (C.Y.)	POROUS GRANULAR EMBANKMENT (PGE) 20700220 (C.Y.)
		TOPSOIL	UNCLASSIFIED					
FORMULAS	A	B		A X 0.85 = C	D	C-D = E	F	G
EARTHWORK SCHEDULE								
UNIVERSITY PARKWAY Sta. 170+71 - 205+17	8,116	3,836	3,869	6,899	3,974	+2,925	2,437	1,408
Sta. 205+18 - 211+00	1,033	513	1,277	878	512	+366	229	0
CRAWFORD AVENUE Sta. 391+19 - 400+00	1,523	670	384	1,295	702	+593	1,071	0
Sta. 400+00 - 404+85	665	412	245	565	512	+53	229	0
TOTAL	11,337	5,431	5,775	9,637	5,700	+3,937	3,966	1,408

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE AND GENERAL NOTES

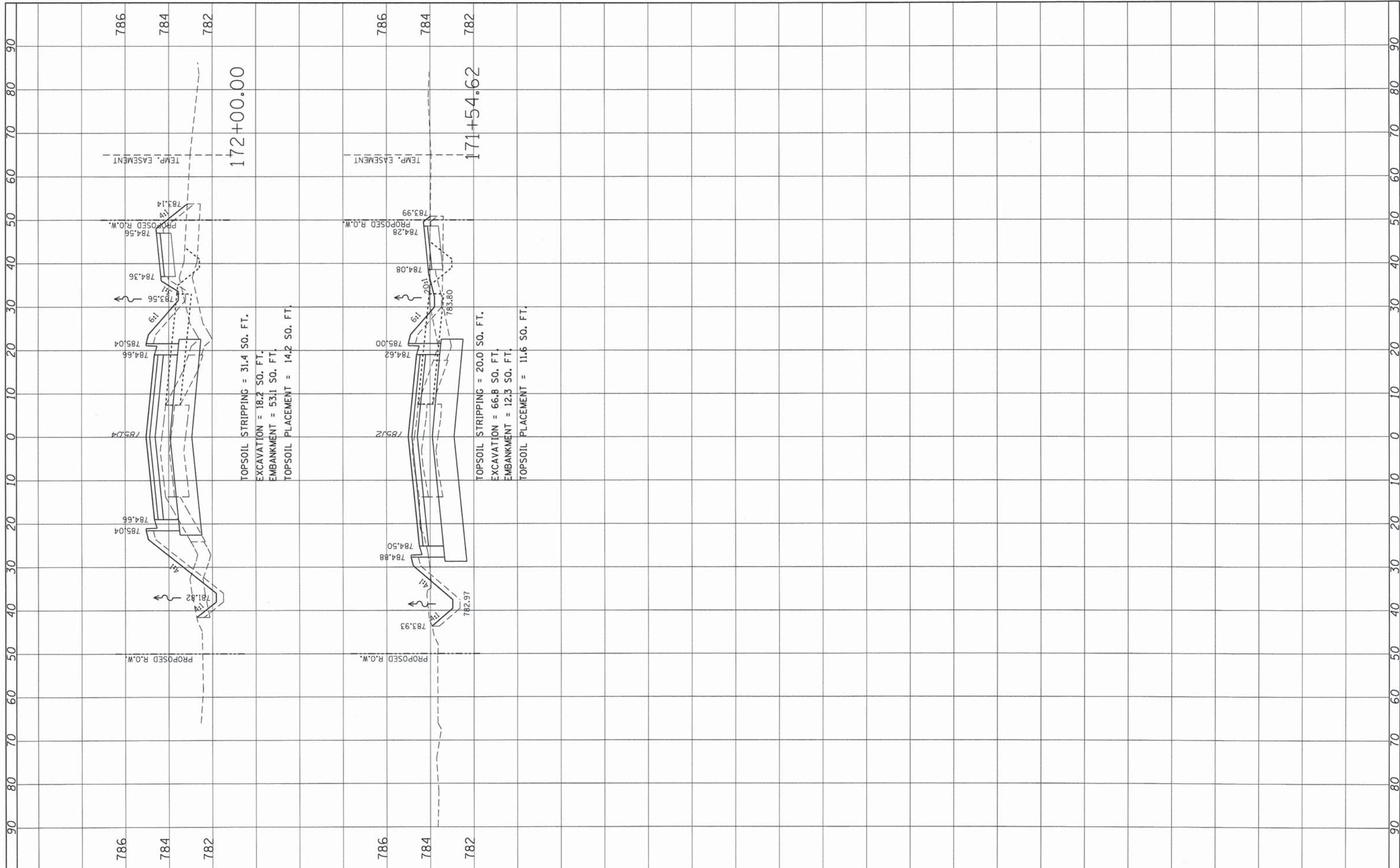
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F.A.U. RTE. 1637	SECTION 96-00014-01-PV	COUNTY WILL	TOTAL SHEETS 119	SHEET NO. 102
CONTRACT NO. 61A75				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

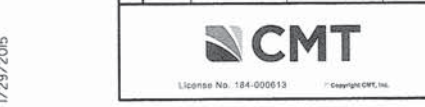
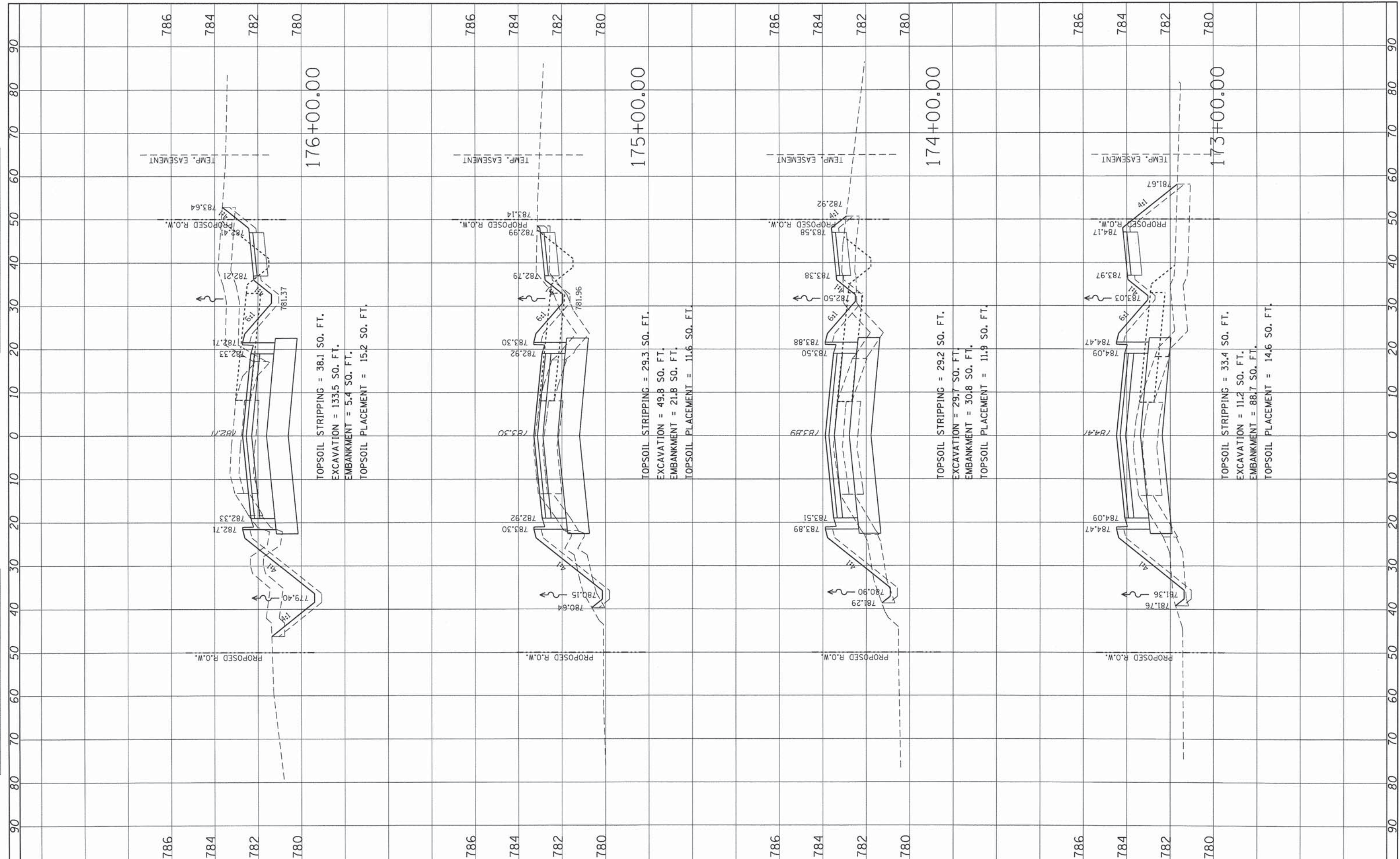
CROSS SECTIONS
 UNIVERSITY PARKWAY

SCALE: SHEET 1 OF 10 SHEETS STA. 171+54.62 TO STA. 172+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	103
CONTRACT NO. 61A75				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
UNIVERSITY PARKWAY**

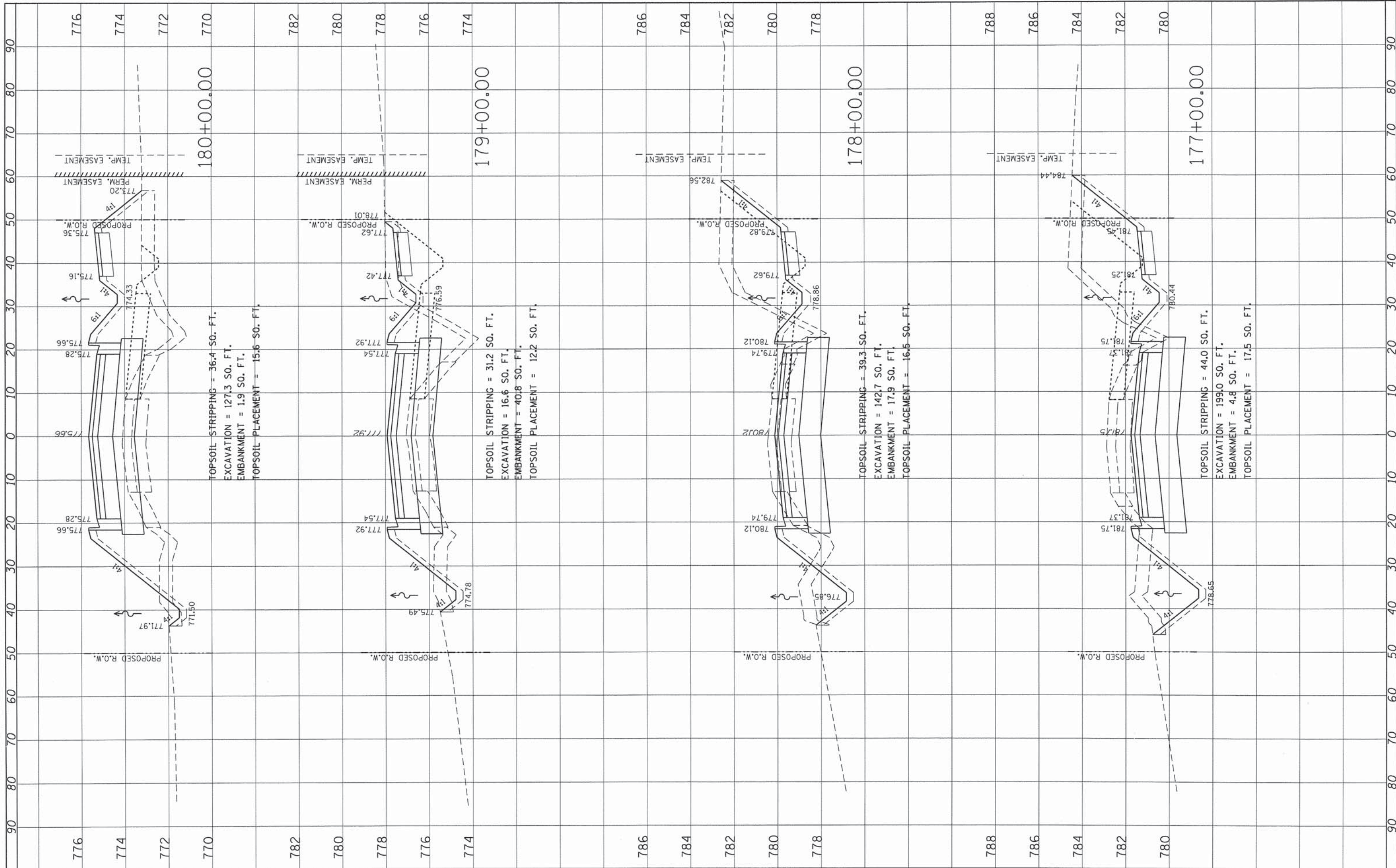
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F.A.U. RTE. 1637	SECTION 14-00027-00-PV	COUNTY WILL	TOTAL SHEETS 119	SHEET NO. 104
CONTRACT NO. 61A15				
[ILLINOIS] FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 UNIVERSITY PARKWAY

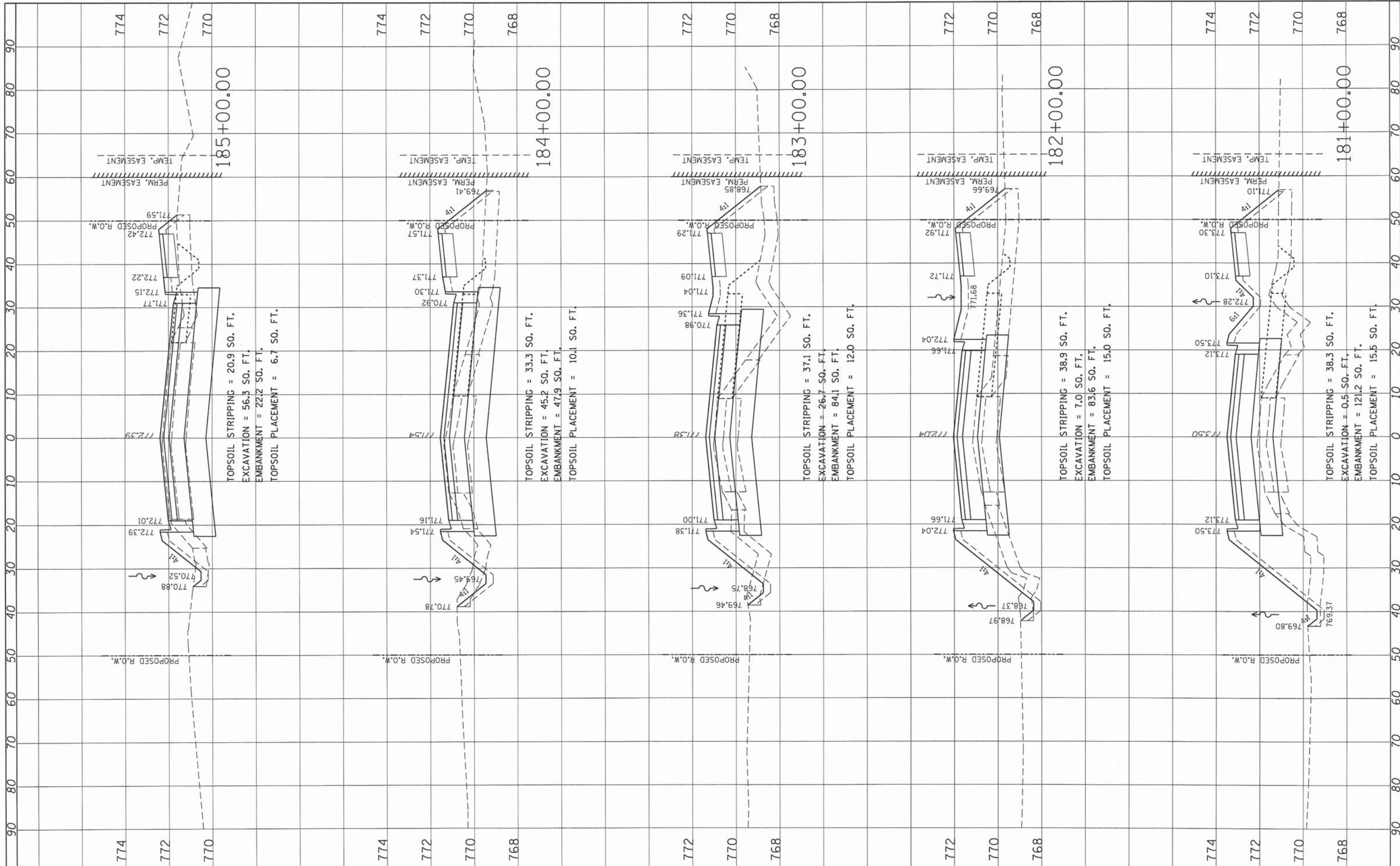
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CONTRACT NO. 61A75				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

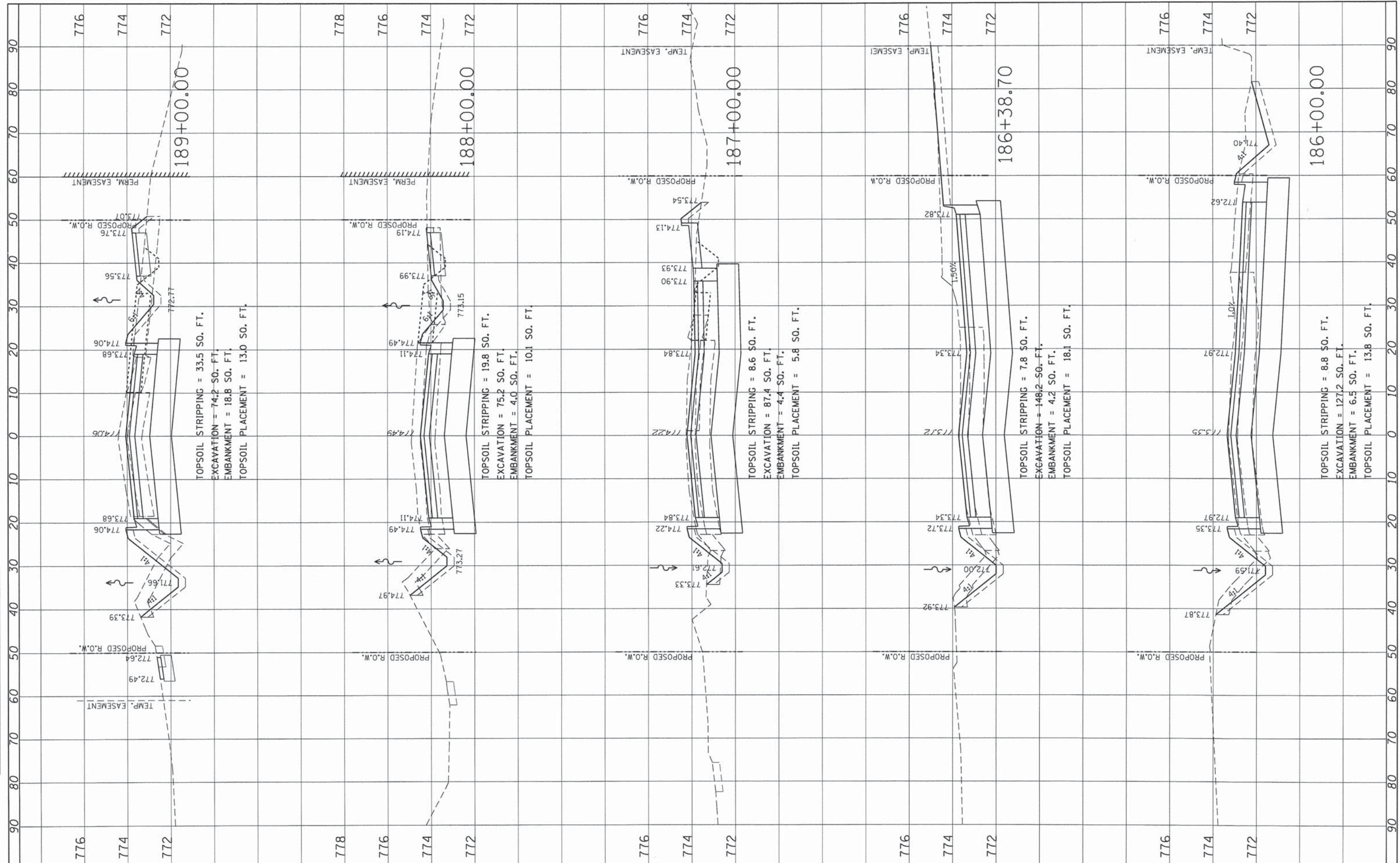
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 UNIVERSITY PARKWAY**

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1637	14-00027-00-PV	WILL	119	106
CONTRACT NO. 61A15				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

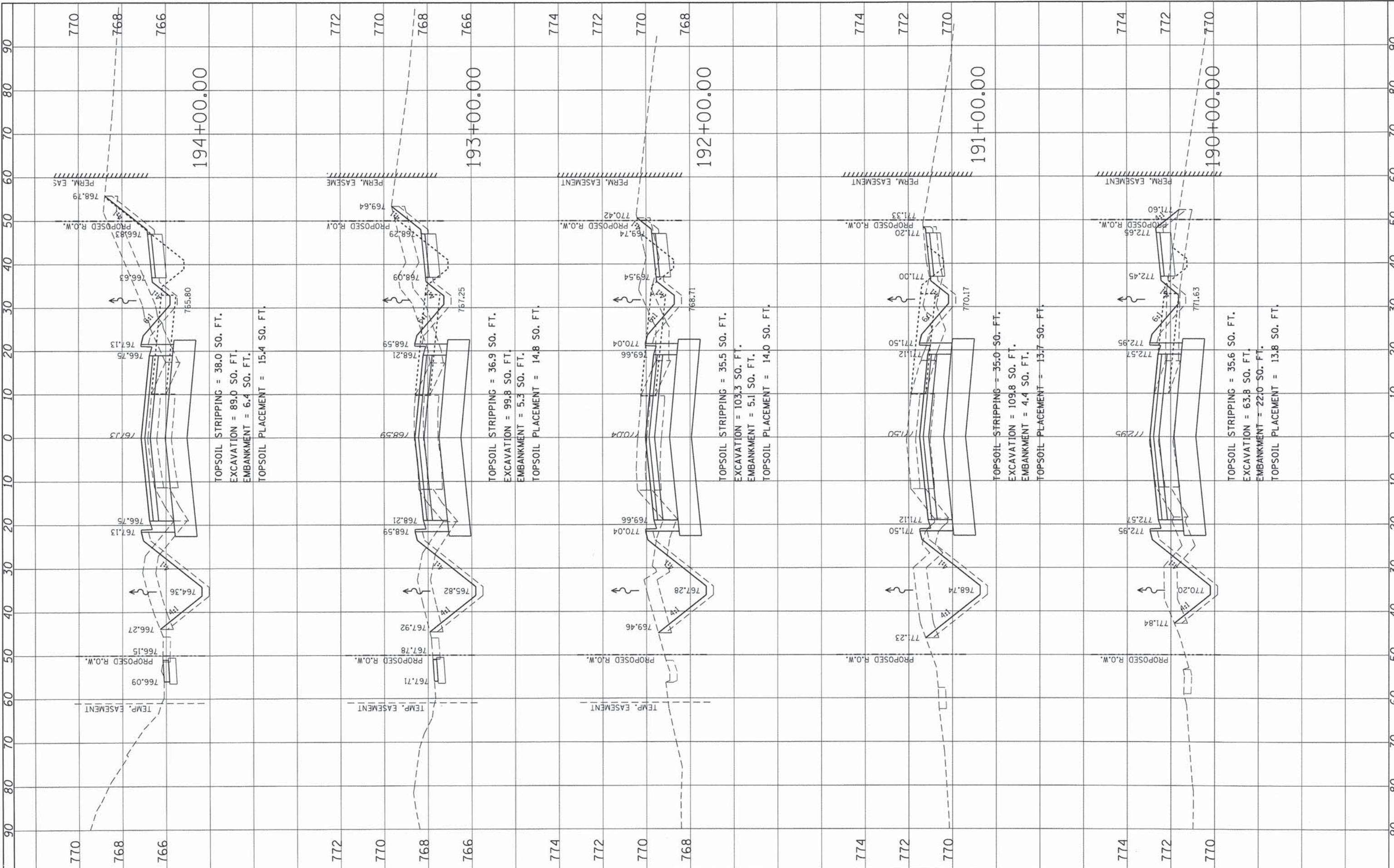
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CROSS SECTIONS
 UNIVERSITY PARKWAY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	107
				CONTRACT NO. 61A75
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

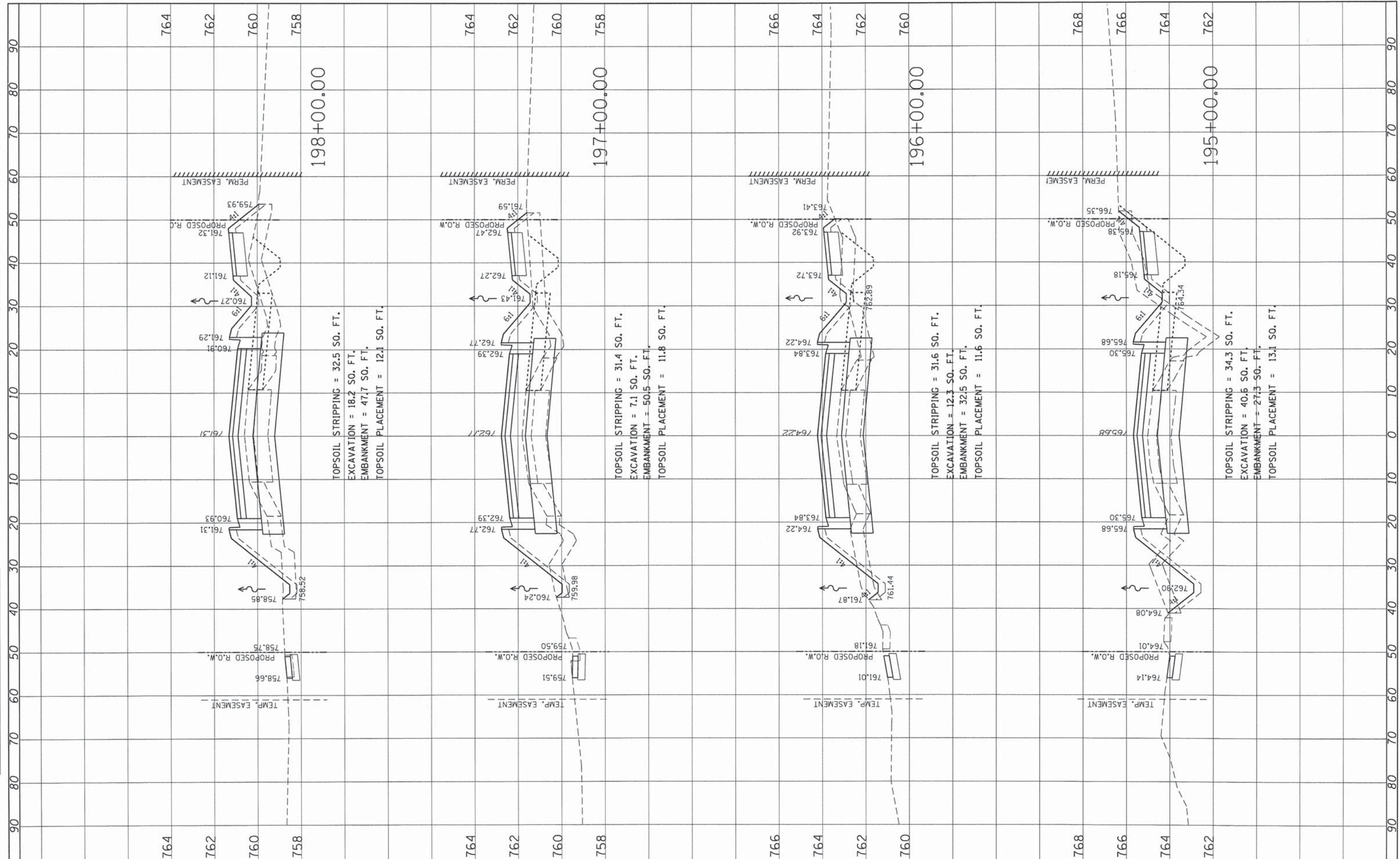
**CROSS SECTIONS
UNIVERSITY PARKWAY**

SCALE: SHEET 6 OF 10 SHEETS STA. 190+00.00 TO STA. 194+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	108
				CONTRACT NO. 61A75
ILLINOIS FED. AID PROJECT				

FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK NO.		
AREAS CHECKED		

ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK NO.		
AREAS CHECKED		



TOPSOIL STRIPPING = 32.5 SO. FT.
 EXCAVATION = 18.2 SO. FT.
 EMBANKMENT = 47.7 SO. FT.
 TOPSOIL PLACEMENT = 12.1 SO. FT.

TOPSOIL STRIPPING = 31.4 SO. FT.
 EXCAVATION = 7.1 SO. FT.
 EMBANKMENT = 50.5 SO. FT.
 TOPSOIL PLACEMENT = 11.8 SO. FT.

TOPSOIL STRIPPING = 31.6 SO. FT.
 EXCAVATION = 12.3 SO. FT.
 EMBANKMENT = 32.5 SO. FT.
 TOPSOIL PLACEMENT = 11.6 SO. FT.

TOPSOIL STRIPPING = 34.3 SO. FT.
 EXCAVATION = 40.5 SO. FT.
 EMBANKMENT = 27.3 SO. FT.
 TOPSOIL PLACEMENT = 13.1 SO. FT.



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 UNIVERSITY PARKWAY

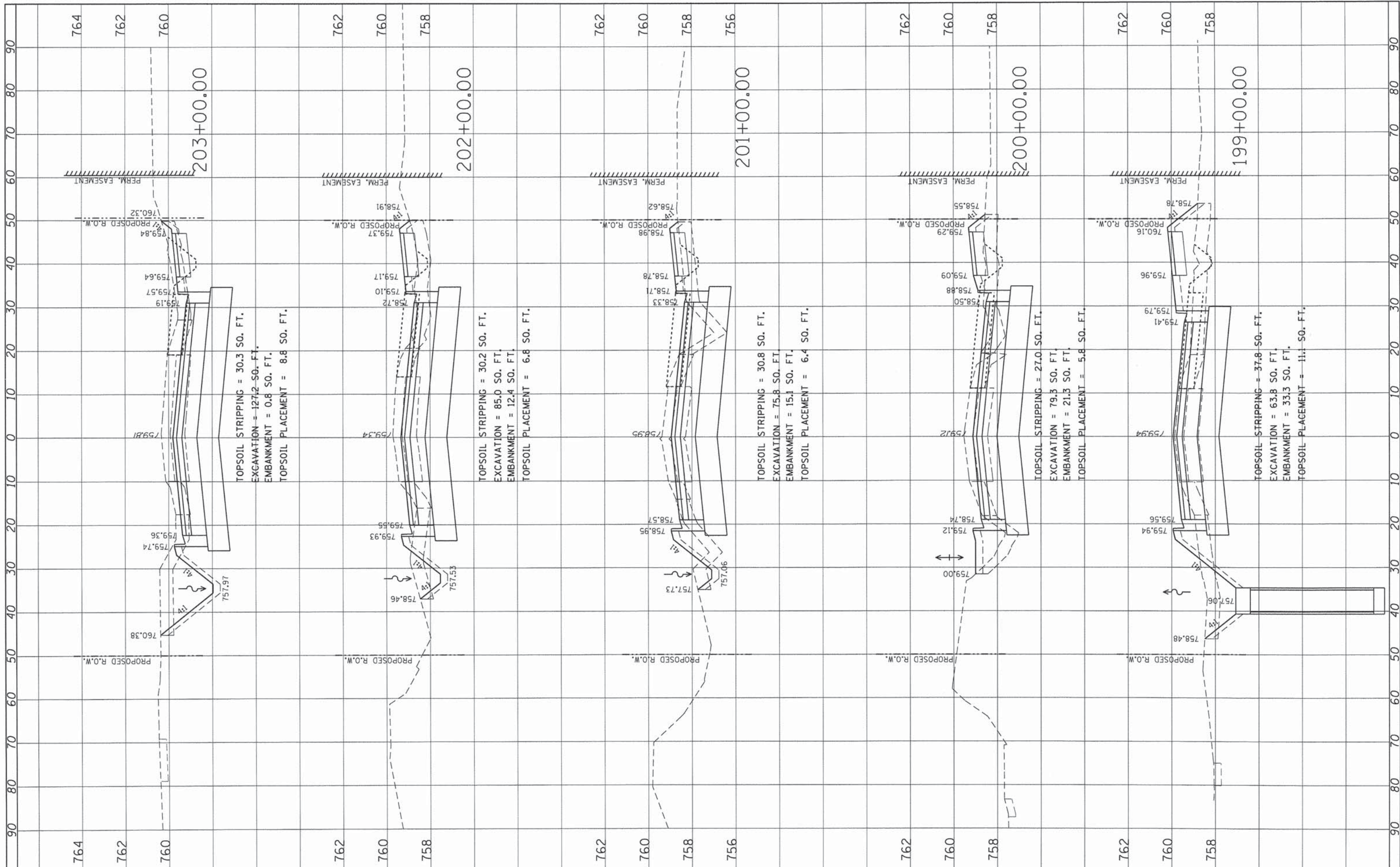
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	109
CONTRACT NO. 61A75				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 UNIVERSITY PARKWAY**

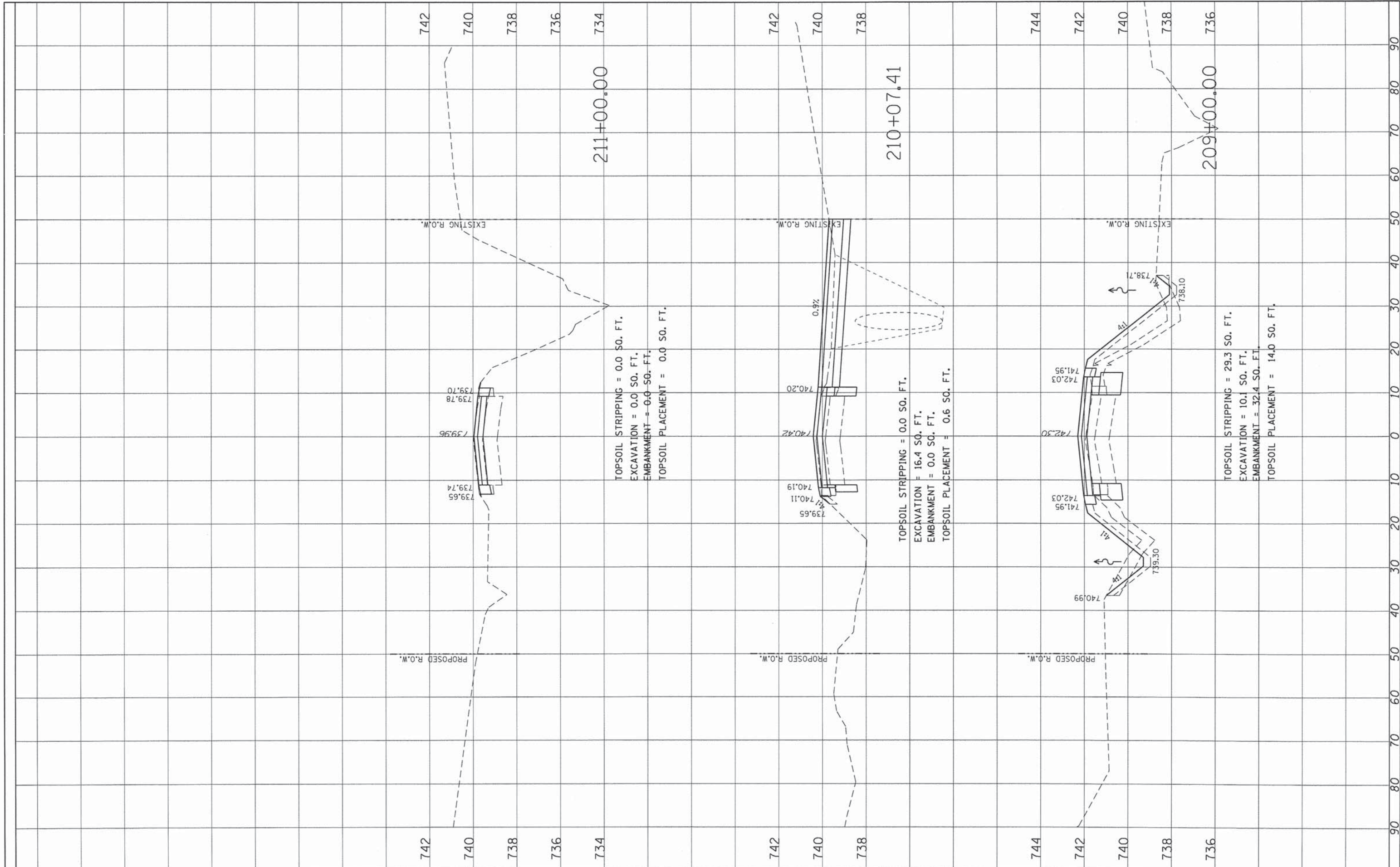
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F.A.U. RTE. 1637	SECTION 14-00027-00-PV	COUNTY WILL	TOTAL SHEETS 119	SHEET NO. 110
CONTRACT NO. 61A15				
ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
UNIVERSITY PARKWAY**

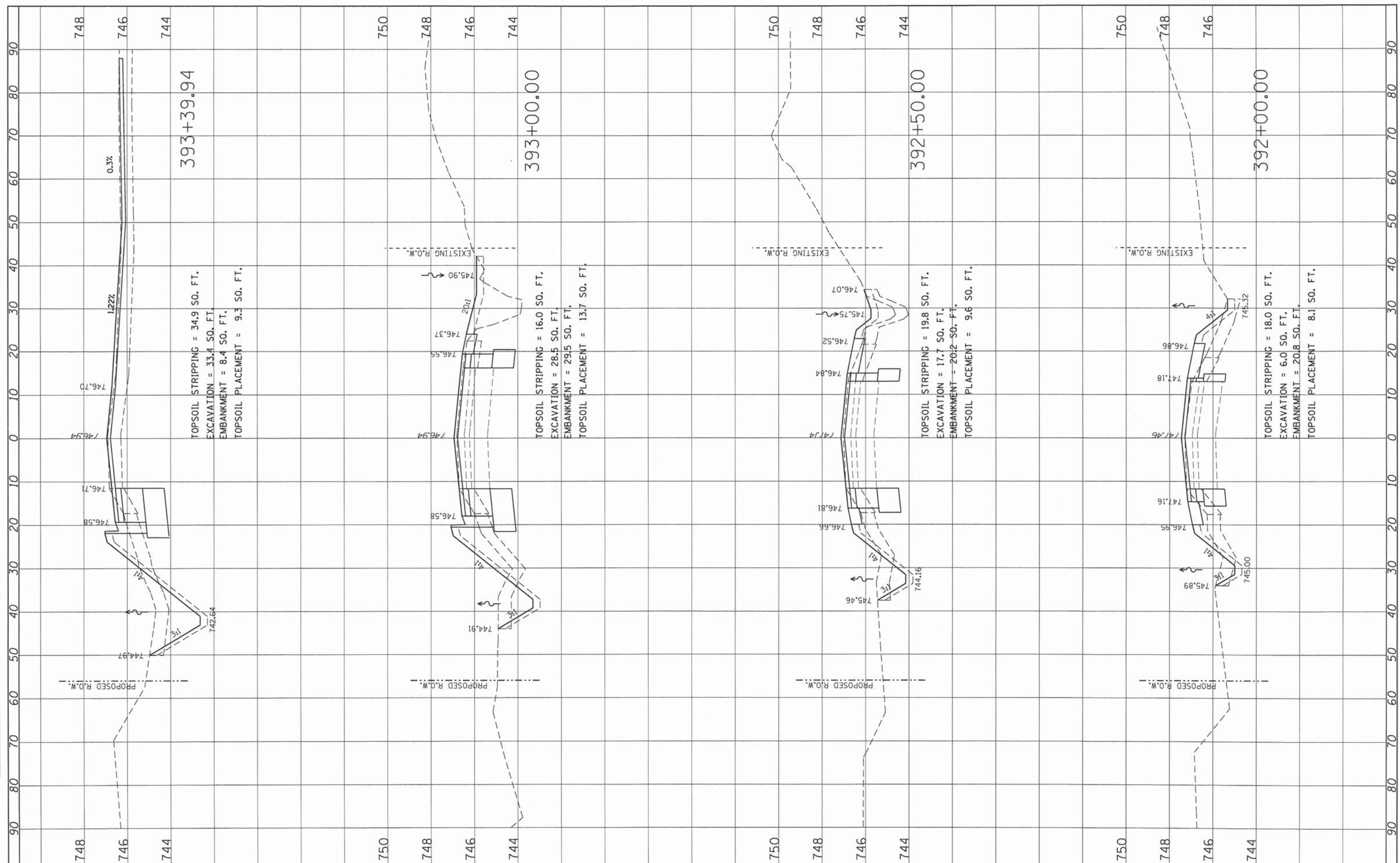
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	112
CONTRACT NO. 61A15				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

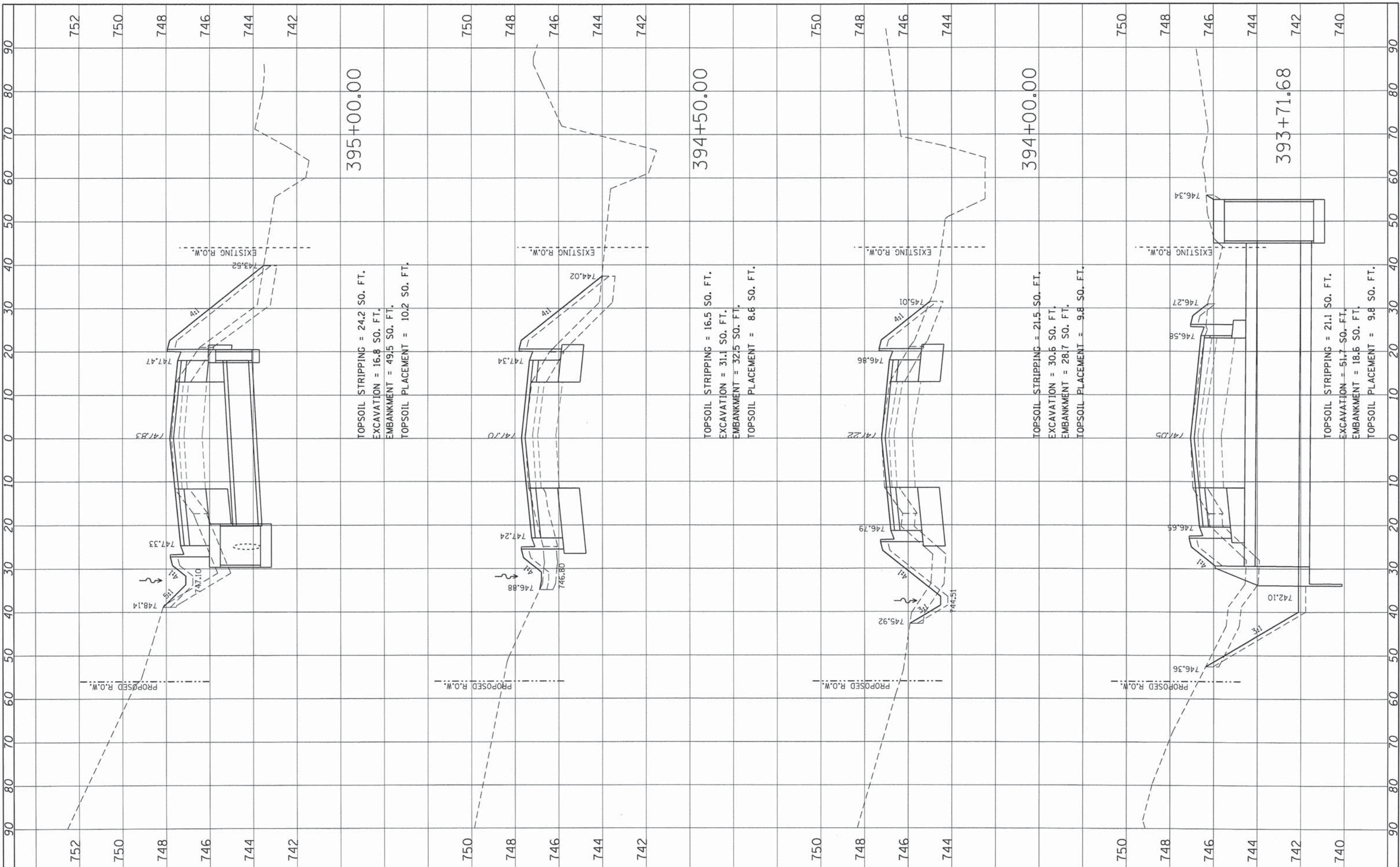
CROSS SECTIONS
CRAWFORD AVENUE

SCALE: 7 SHEET OF SHEETS STA. 392+00.00 TO STA. 393+39.94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	113
CONTRACT NO. 61A15			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

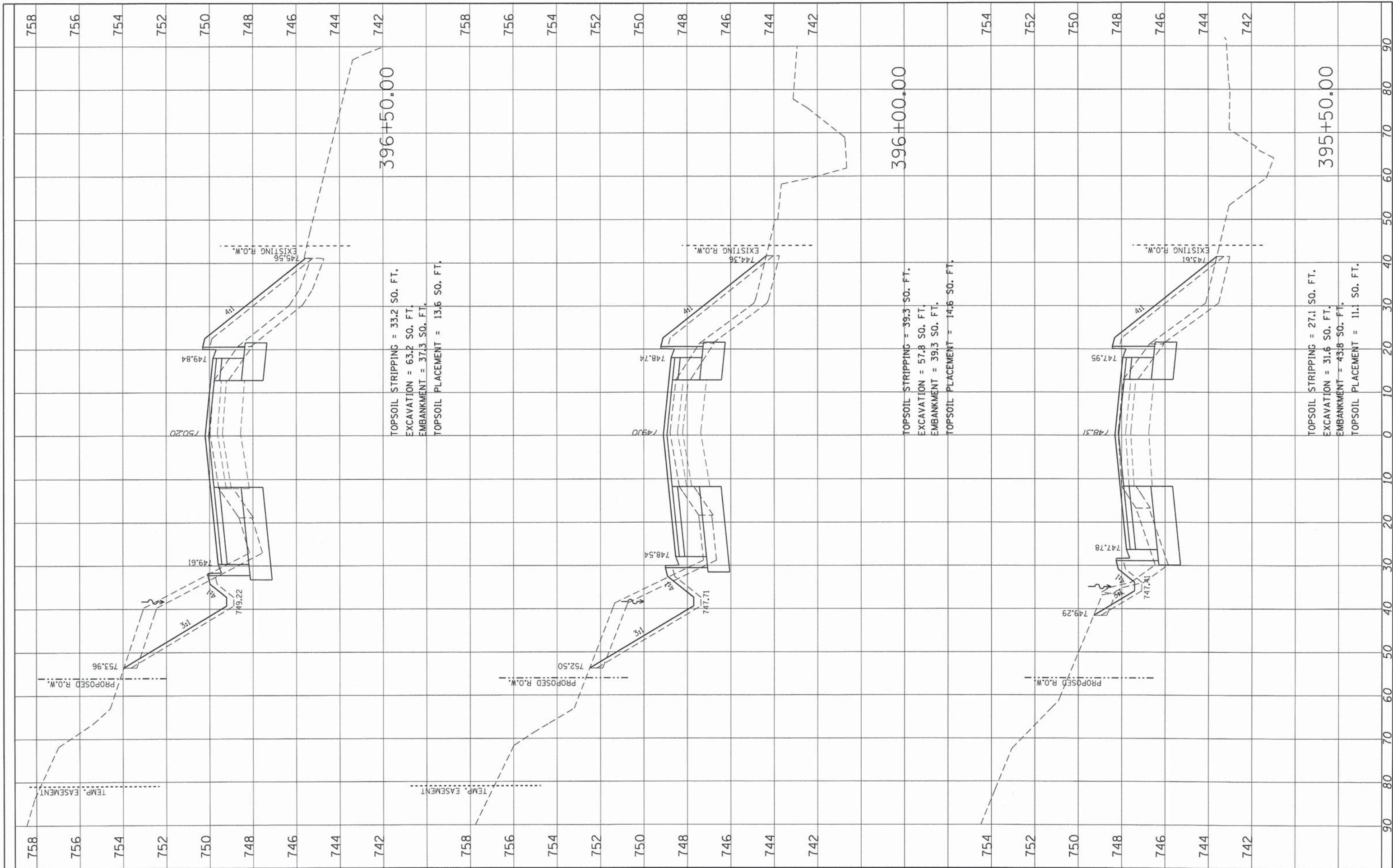
**CROSS SECTIONS
 CRAWFORD AVENUE**

SCALE: SHEET 2 OF 7 SHEETS STA. 393+71.68 TO STA. 395+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	114
CONTRACT NO. 61A75			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	NO.	DATE
SURVEYED		
PLOTTED		
DATE		
AREAS CHECKED		
BY		

ORIGINAL SURVEY	NO.	DATE
SURVEYED		
PLOTTED		
DATE		
AREAS CHECKED		
BY		



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USER NAME = Kristin Timmons	DESIGNED - AS	REVISED -
...\\Draw\CA00.Sheets\Xcr\owford.dgn	DRAWN - AS	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - KDN	REVISED -
PLOT DATE = 1/29/2015	DATE - 6/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

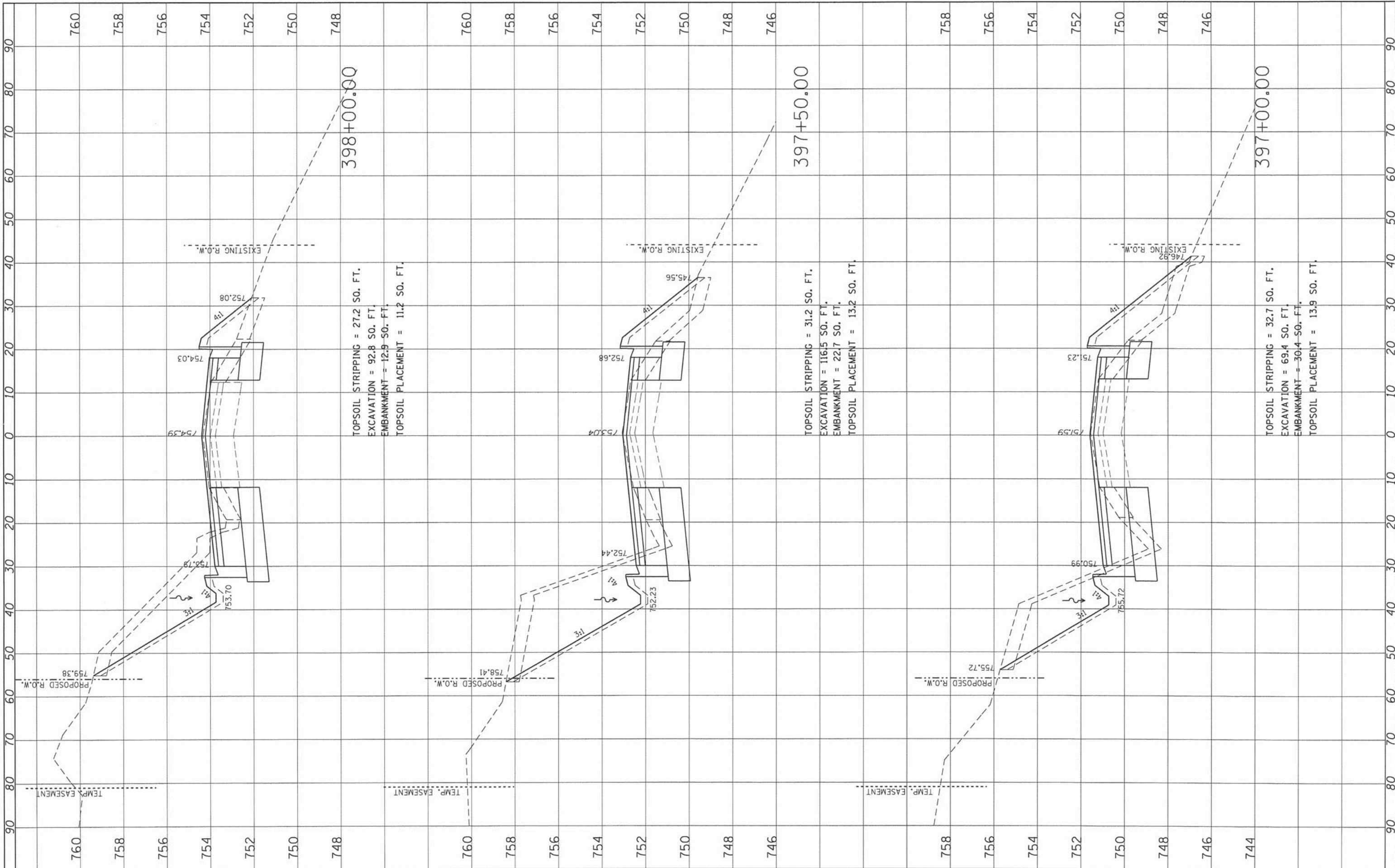
**CROSS SECTIONS
CRAWFORD AVENUE**

SCALE: SHEET 3 OF 7 SHEETS STA. 395+50.00 TO STA. 396+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	115
				CONTRACT NO. 61A75
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	
NO.	



398+00.00
 TOPSOIL STRIPPING = 27.2 SO. FT.
 EXCAVATION = 92.8 SO. FT.
 EMBANKMENT = 12.9 SO. FT.
 TOPSOIL PLACEMENT = 11.2 SO. FT.

397+50.00
 TOPSOIL STRIPPING = 31.2 SO. FT.
 EXCAVATION = 116.5 SO. FT.
 EMBANKMENT = 22.7 SO. FT.
 TOPSOIL PLACEMENT = 13.2 SO. FT.

397+00.00
 TOPSOIL STRIPPING = 32.7 SO. FT.
 EXCAVATION = 69.4 SO. FT.
 EMBANKMENT = 30.4 SO. FT.
 TOPSOIL PLACEMENT = 13.9 SO. FT.



USER NAME = Kristin Timmons
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 PLOT SCALE = 1/8" = 10.0000' / 1" = 100.0000'
 PLOT DATE = 1/29/2015

DESIGNED - AS
 DRAWN - AS
 CHECKED - KDN
 DATE - 6/20/2014

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

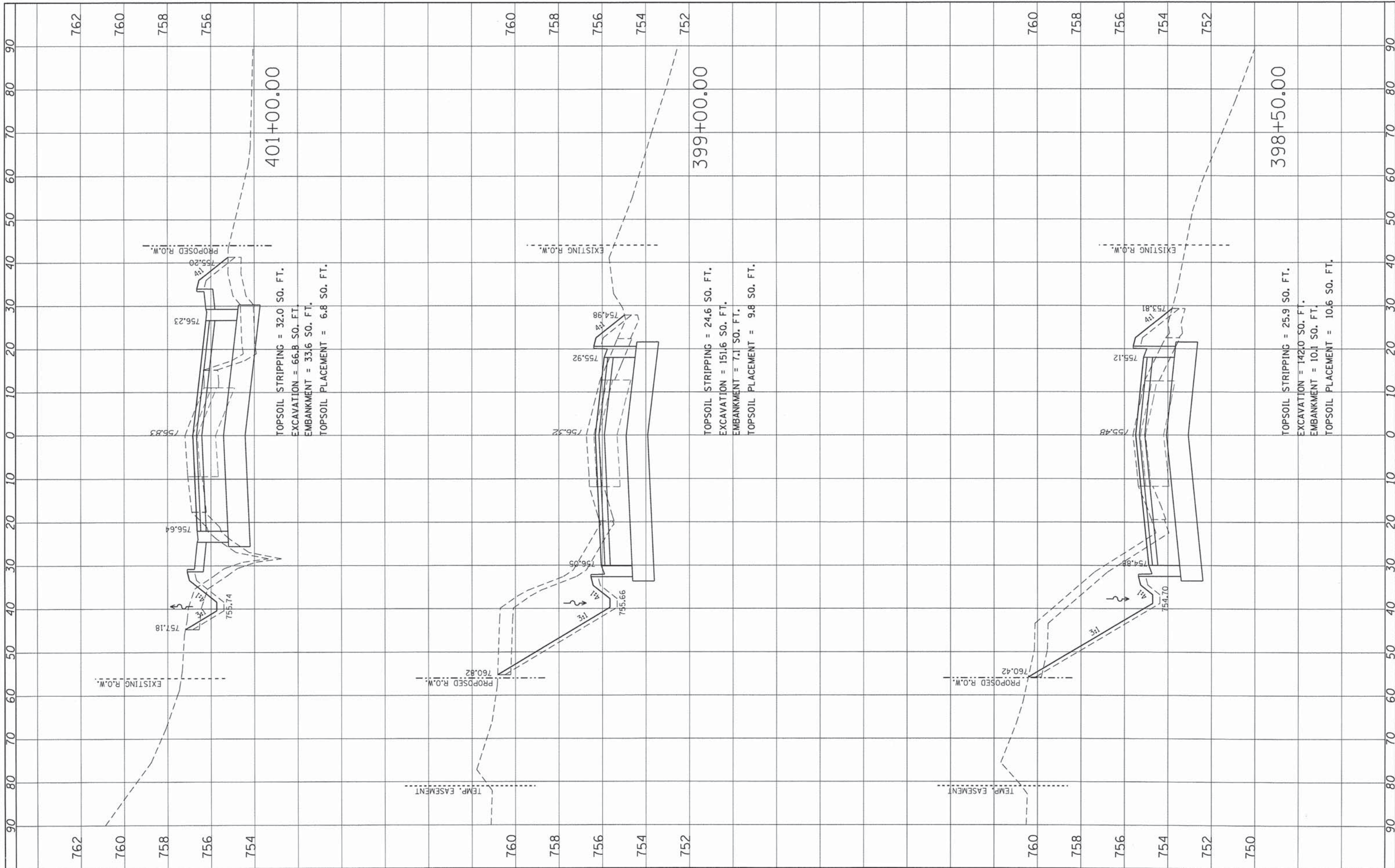
CROSS SECTIONS
 CRAWFORD AVENUE

SCALE: SHEET 4 OF 7 SHEETS STA. 397+00.00 TO STA. 398+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	116
CONTRACT NO. 61A75			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
PLOTTED		
DATE		
AREAS		
CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
PLOTTED		
DATE		
AREAS		
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NO.		



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 PLOT DATE = 1/29/2015

DESIGNED - AS
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 DATE - 6/20/2014

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

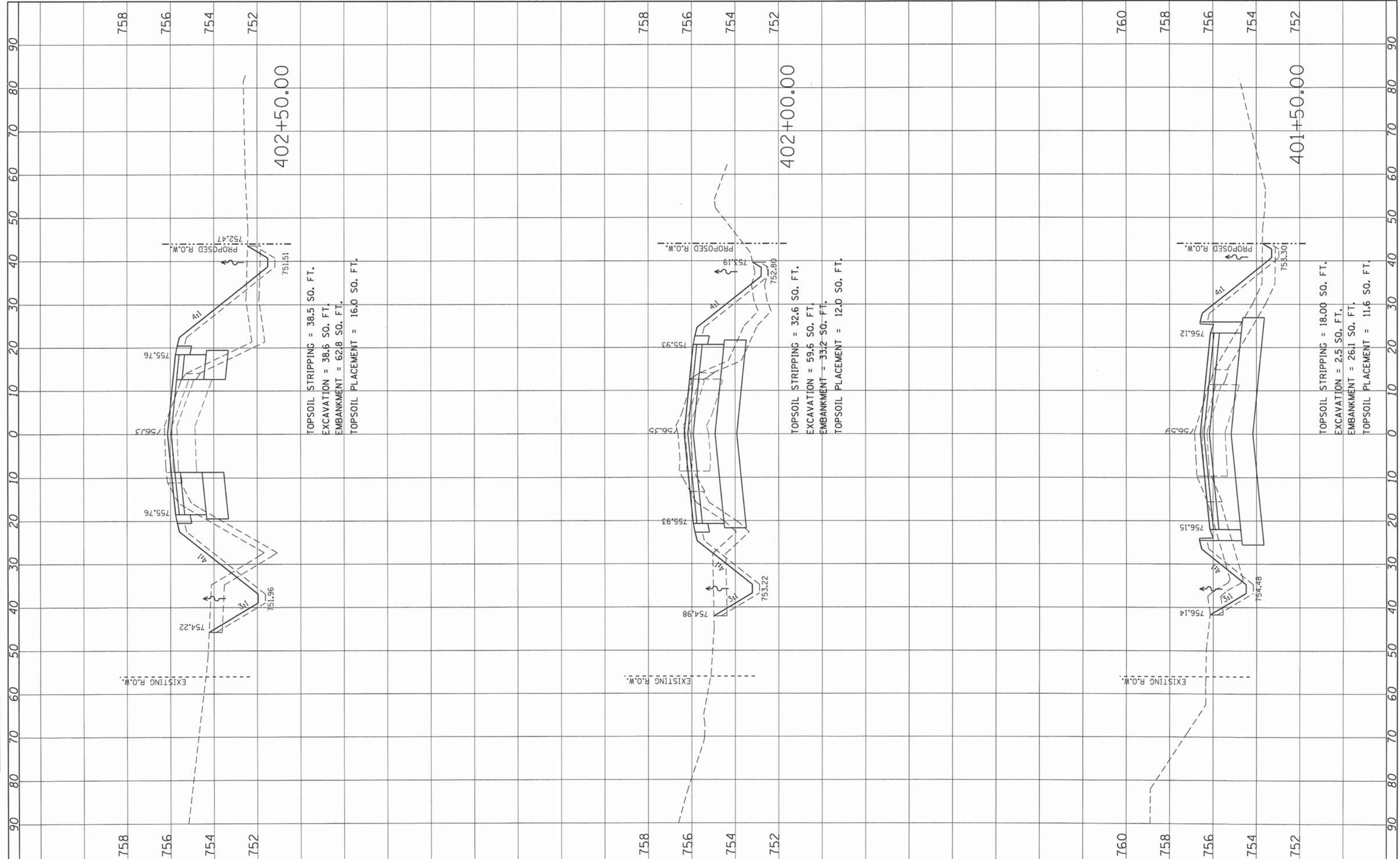
CROSS SECTIONS
 CRAWFORD AVENUE

SCALE: SHEET 5 OF 7 SHEETS STA. 398+50.00 TO STA. 400+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	117
CONTRACT NO. 61A75			ILLINOIS FED. AID PROJECT	

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

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



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 PLOT DATE = 1/29/2015

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

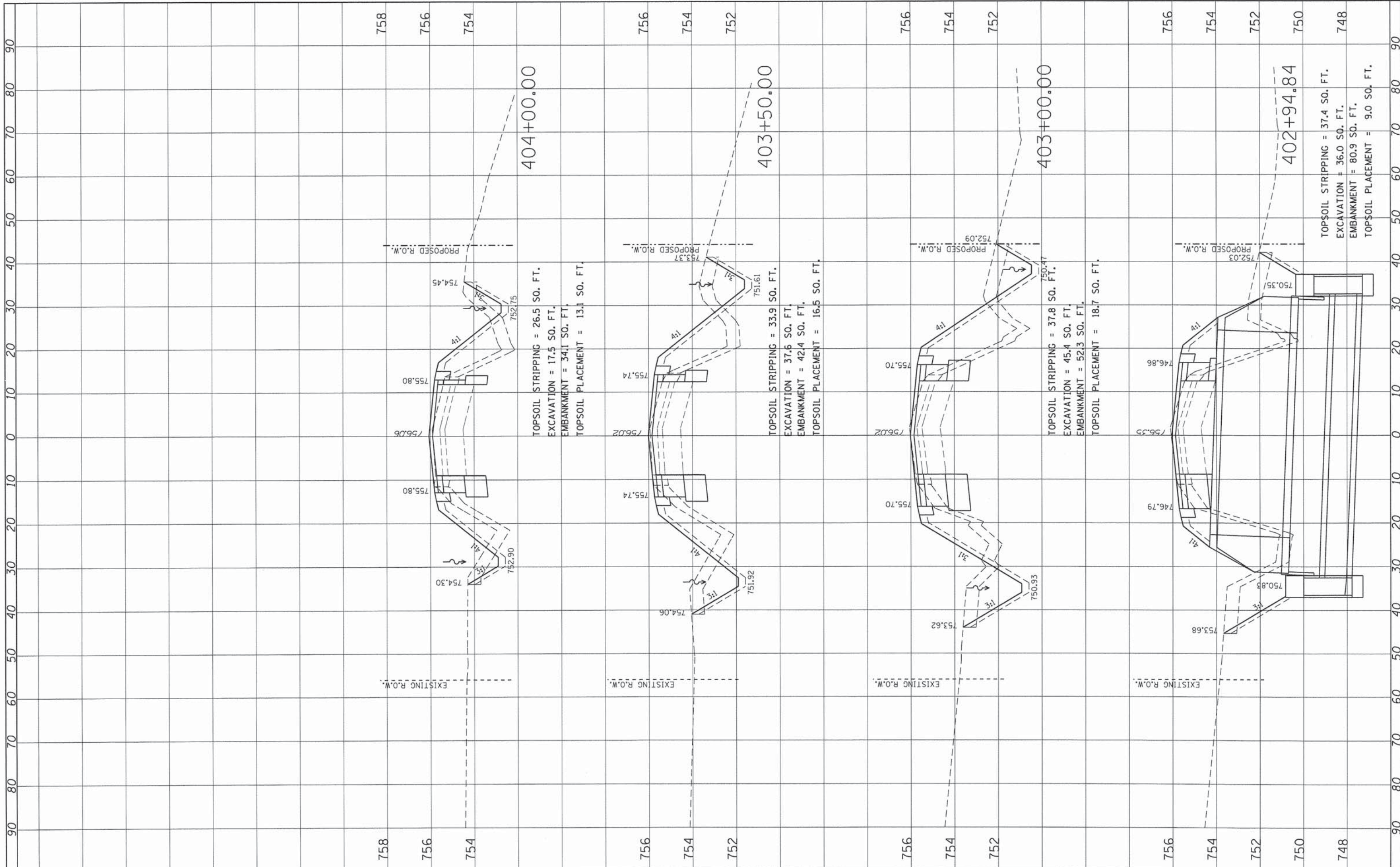
**CROSS SECTIONS
 CRAWFORD AVENUE**

SCALE: SHEET 6 OF 7 SHEETS STA. 401+00.00 TO STA. 402+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	118
CONTRACT NO. 61A75				
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE = 1/29/2015

DESIGNED - AS
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 CHECKED - KDN
 DATE - 6/20/2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CRAWFORD AVENUE

SCALE: SHEET 7 OF 7 SHEETS STA. 402+88.72 TO STA. 404+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1637	14-00027-00-PV	WILL	119	119
CONTRACT NO. 61A15				
ILLINOIS FED. AID PROJECT				