

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
LOCAL AGENCY PROJECT**

FAU 8623 (WEST BROADWAY)  
FAU 8609 (BROOKSIDE AVENUE)  
SECTION 09-00096-00-RS  
PROJECT NO. ARA-5012(019)  
CITY OF CENTRALIA, ILLINOIS  
MARION COUNTY  
JOB NO. C-98-313-10

**ARRA RESURFACING and SIDEWALK IMPROVEMENTS**

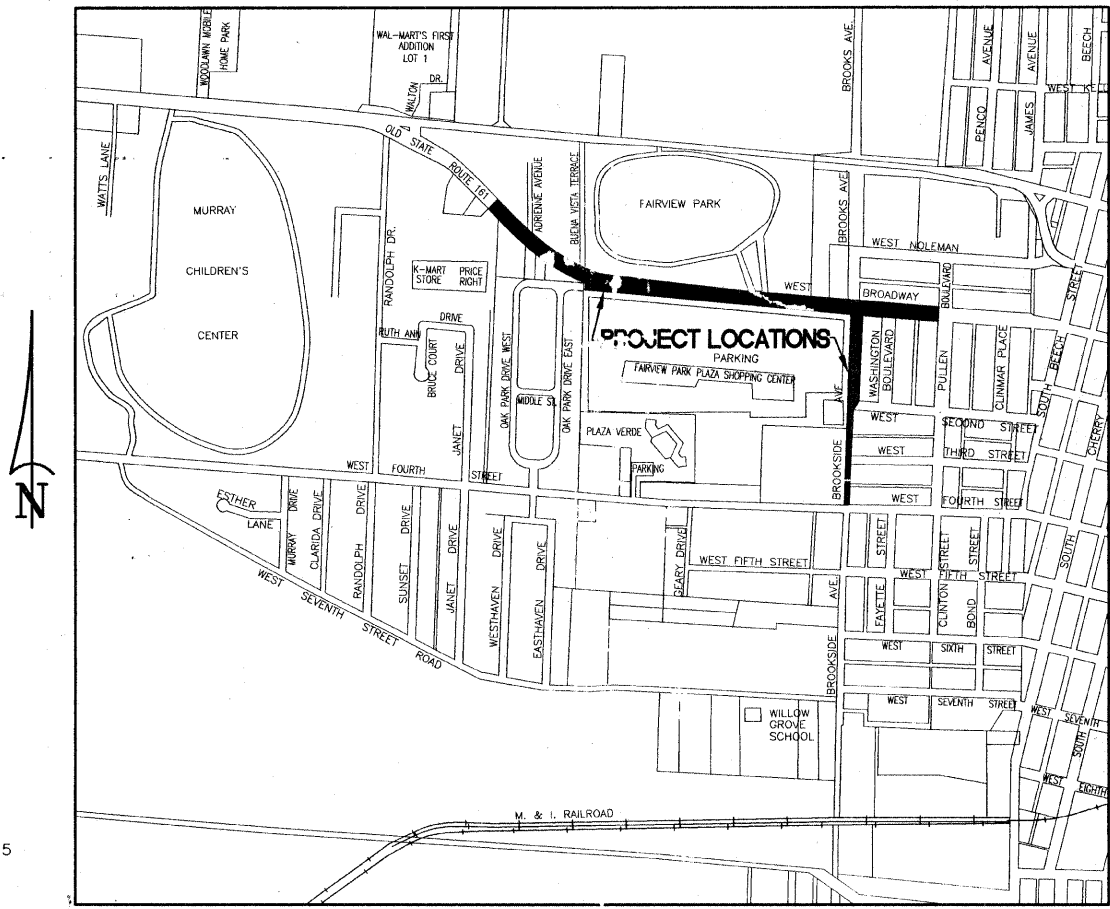
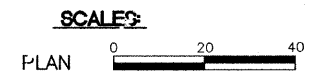
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	1
FEDERAL AID PROJECT			CONTRACT NO. 97425	



**APPLICABLE IDOT  
HIGHWAY STANDARDS**

424001-05	606001-04
442201-03	701426-03
602301-02	701501-05
602306-02	701606-06
602601-02	701701-06
604001-03	701901-01
604036-02	780001-02

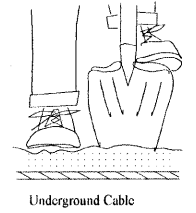
- INDEX OF SHEETS**
- COVER SHEET
  - SUMMARY OF QUANTITIES AND GENERAL NOTES
  - SCHEDULES
  - TYPICAL SECTIONS
  - 10. PLAN VIEW
  - MISCELLANEOUS DETAILS
  - 21. CROSS SECTIONS
  - DETAILED DRAINAGED CROSS SECTIONS



**LOCATION MAP**  
NOT TO SCALE

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER
ELECTRIC	AMEREN IP, MT. VERNON, ILLINOIS	618-360-7822
GAS	AMEREN IP, MT. VERNON, ILLINOIS	618-360-7822
WATER	CITY OF CENTRALIA, CENTRALIA, ILLINOIS	618-533-7623
TELEPHONE	ATT ILLINOIS, CENTRALIA, ILLINOIS	618-533-3411
CABLE	CHARTER COMMUNICATIONS, MT. VERNON, ILLINOIS	618-242-9512, EXT. 215
SANITARY SEWER	CITY OF CENTRALIA, CENTRALIA, ILLINOIS	618-533-7623

**HOLD IT ! CALL BEFORE YOU DIG !**  
Phone J.U.L.I.E.



The owner would like to remind you that underground utility facilities can be damaged by shovel blades or other digging equipment. You can prevent damage or possible personal danger by phoning 800/892-0123 at least 48 hours before you dig. That's the toll-free number for "J.U.L.I.E.", which stands for Joint Utilities Location Information for Excavators.

If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123

**LENGTH OF PROJECT**

	LENGTH	FEET	MILES
BROADWAY STREET = (Sta. 88+02 to Sta. 127+38.85)	3,936.85 FT.	3,936.85 FT.	7.41 MILES
BROOKSIDE AVENUE = (Sta. 130+15.79 to Sta. 144+69.94)	1,454.15 FT.	1,454.15 FT.	2.76 MILES
<b>TOTAL GROSS LENGTH =</b>	<b>5,391 FT.</b>	<b>5,391 FT.</b>	<b>1.021 MILES</b>
<b>TOTAL NET LENGTH =</b>	<b>5,391 FT.</b>	<b>5,391 FT.</b>	<b>1.021 MILES</b>



*Mark A. Rujawitz*  
Mark A. Rujawitz  
12/28/2009  
Date of Signing  
11/30/2011  
Date of License Expiration

**ILLINOIS  
DEPARTMENT OF  
TRANSPORTATION**

APPROVED: *12/30/2009* DATE  
*Rebecca Quitt*  
MAYOR, CITY OF CENTRALIA

PASSED: *1-5-10* DATE  
*Frank*  
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW: *1-5-10* DATE  
*Mary C. Farnie*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER

PREPARED BY:

**RHUTASEL and ASSOCIATES, INC.**  
CONSULTING ENGINEERS • LAND SURVEYORS

**CORPORATE OFFICE**      **REGIONAL OFFICE**  
4 INDUSTRIAL DRIVE      201 SOUTH LOCUST STREET  
FREDERICK, ILLINOIS 62243      CENTRALIA, ILLINOIS 62801  
(618) 539-3178      (618) 532-1992  
IL LICENSE NO. 184-000287

## SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	QUANTITY
21400100	GRADING AND SHAPING DITCHES	FOOT	161
25000200	SEEDING, CLASS 2	ACRE	0.2
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	18
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,712
40600300	AGGREGATE (PRIME COAT)	TON	33
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	354
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	89
40600990	TEMPORARY RAMP	SQ YD	112
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2,188
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	73
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	84
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	7,471
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	970
42400800	DETECTABLE WARNINGS	SQ FT	152
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	16,671
44000300	CURB REMOVAL	FOOT	354
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	51
44000600	SIDEWALK REMOVAL	SQ FT	72
44002500	GUTTER OUTLET REMOVAL	EACH	2
44200094	PAVEMENT PATCHING, TYPE II 8"	SQ YD	20
54213447	END SECTIONS 12"	EACH	2
54213450	END SECTIONS 15"	EACH	1
550B0030	STORM SEWERS, CLASS B, TYPE 1, 8"	FOOT	9
550B0040	STORM SEWERS, CLASS B, TYPE 1, 10"	FOOT	10
550B0050	STORM SEWERS, CLASS B, TYPE 1, 12"	FOOT	49
550B0070	STORM SEWERS, CLASS B, TYPE 1, 15"	FOOT	12
56109210	WATER VALVES TO BE ADJUSTED	EACH	2
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	6
60236200	INLETS, TYPE A, TYPE B GRATE	EACH	1
60405700	FRAMES AND GRATES, SPECIAL	EACH	2
60600605	CONCRETE CURB, TYPE B	FOOT	251
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	34
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	31
67100100	MOBILIZATION	L SUM	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,757
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	303
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	31.2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17,693
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	384
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	72
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	175
* 78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	211
* 78008370	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24"	FOOT	52
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	127
X4421000	PARTIAL DEPTH PATCHING	TON	0.2
X4422030	PARTIAL DEPTH REMOVAL, 3"	SQ YD	7.7

\* SPECIALTY ITEM

## GENERAL NOTES

ALL CONSTRUCTION SHALL BE ACCORDING TO ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007.

EXISTING UTILITIES SHOWN ARE LOCATED FROM SURFACE OBSERVATIONS OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKINGS OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123 OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.

THE THICKNESS OF THE HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE ON WHICH THE HOT-MIX ASPHALT IS PLACED.

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:

PAVING	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ.YD./INCH
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ.YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.075 GAL./SQ.YD.

THE CONTRACTOR SHALL BE AWARE THAT THERE ARE MANHOLES AND VALVES LOCATED WITHIN THE RESURFACING LIMITS. CARE SHALL BE TAKEN IN THESE LOCATIONS TO ENSURE THESE ITEMS ARE NOT DAMAGED.

SHORT-TERM PAVEMENT MARKINGS SHALL BE APPLIED TO THE MILLED AND FINAL WEARING SURFACE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	SURFACE	LEVEL BINDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX.)	15%	25%	15%
DESIGN AIR VOIDS	4.0%@Ndes=70	4.0%@Ndes=70	4.0%@Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL-12.5	IL-9.5	IL-12.5
FRICTION AGG	MIXTURE D	MIXTURE B	MIXTURE D

AN ESTIMATED 1,865 TONS OF HOT-MIX ASPHALT MATERIAL WILL BE REMOVED DURING THIS PROJECT.

ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION SHALL BE SEEDED WITH CLASS 2 SEEDING, WHICH PRICE SHALL INCLUDE FERTILIZER NUTRIENTS, MULCH, AND ALL NECESSARY INCIDENTAL WORK AS DIRECTED BY THE ENGINEER.

THE COST FOR FURNISHED EXCAVATION AND EARTH EXCAVATION NECESSARY TO COMPLETE THE SIDEWALK/DRIVEWAY WORK AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ROCKS AND FOREIGN DEBRIS.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8809	09-00096-00-RS	MARION	22	2
FEDERAL AID PROJECT		CONTRACT NO. 97425		

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	3
FEDERAL AID PROJECT			CONTRACT 97425	

### SIDEWALK SCHEDULE

LOCATION	PCC SIDEWALK, 4" SQ FT	PCC SIDEWALK, 6" SQ FT
WEST BROADWAY		
STA. 101+00 TO 101+50	366	
STA. 101+44 LT.	30	
STA. 105+90 TO 106+23	155	
STA. 106+58 TO 106+69	42	
STA. 111+13 TO 111+23	52	
STA. 111+59 TO 111+69	52	
STA. 116+36 TO 116+46	52	
STA. 116+82 TO 119+88	1,342	
STA. 120+41 TO 120+57	120	
AT WASHINGTON	64	
AT ALLEY	48	
BROOKSIDE AVENUE		
STA. 130+33 TO 132+75	1,208	
STA. 132+75 TO 133+00		125
STA. 133+00 TO 133+42	210	
STA. 133+42 TO 133+87		218
STA. 133+87 TO 134+20	167	
STA. 134+20 TO 134+76		280
STA. 134+76 TO 136+09	669	
STA. 136+09 TO 136+41		161
STA. 136+41 TO 137+56	582	
STA. 137+56 TO 137+94		186
STA. 137+94 TO 138+18	110	
STA. 138+75 TO 140+39	850	
STA. 140+86 TO 141+04	14	
STA. 141+40 TO 143+21	886	
STA. 143+71 TO 144+64	452	
TOTAL	7,471	970

### ADJUSTMENT SCHEDULE

STATION	CENTERLINE OFFSET	LANE		WATER VALVES TO BE ADJUSTED	MANHOLES TO BE ADJUSTED
		LEFT (SB)	RIGHT (NB)		
				EACH	EACH
BROOKSIDE AVENUE--					
131+83	1' LT.	x			1
131+40	17' RT.		x	1	
133+48	6' RT.		x	1	
134+98	6' RT.		x		1
137+75	2' RT.		x		1
138+32	1' LT.	x			1
144+70	8' RT.		x		1
144+71	2' RT.		x		1
TOTAL				2	6

### PAVEMENT SCHEDULE

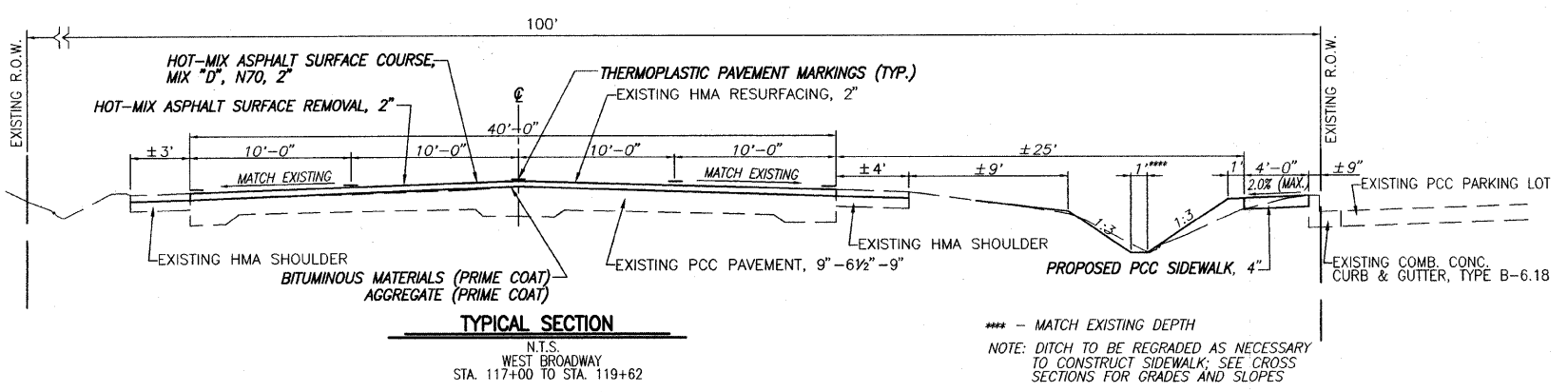
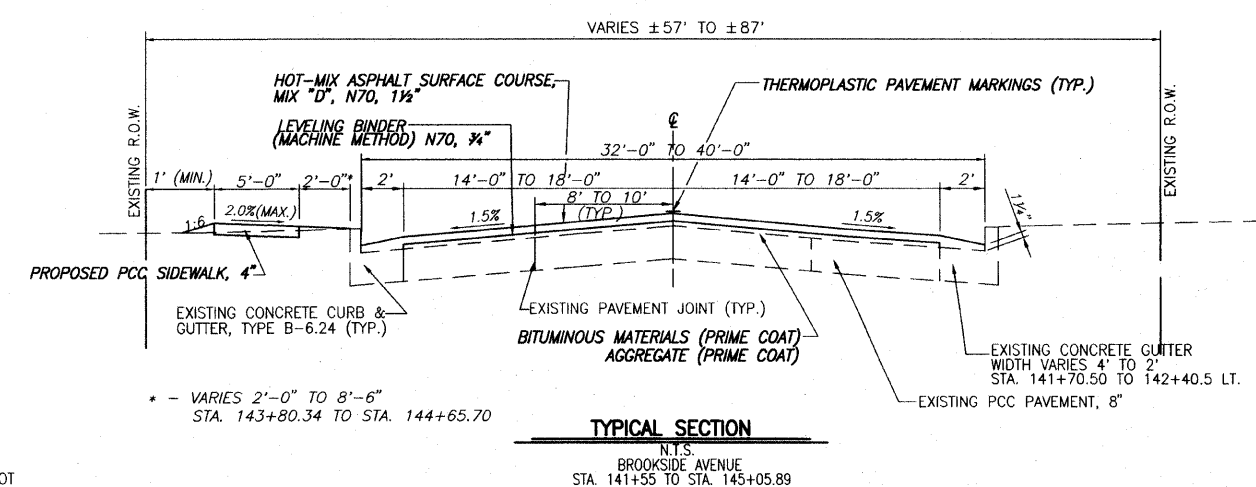
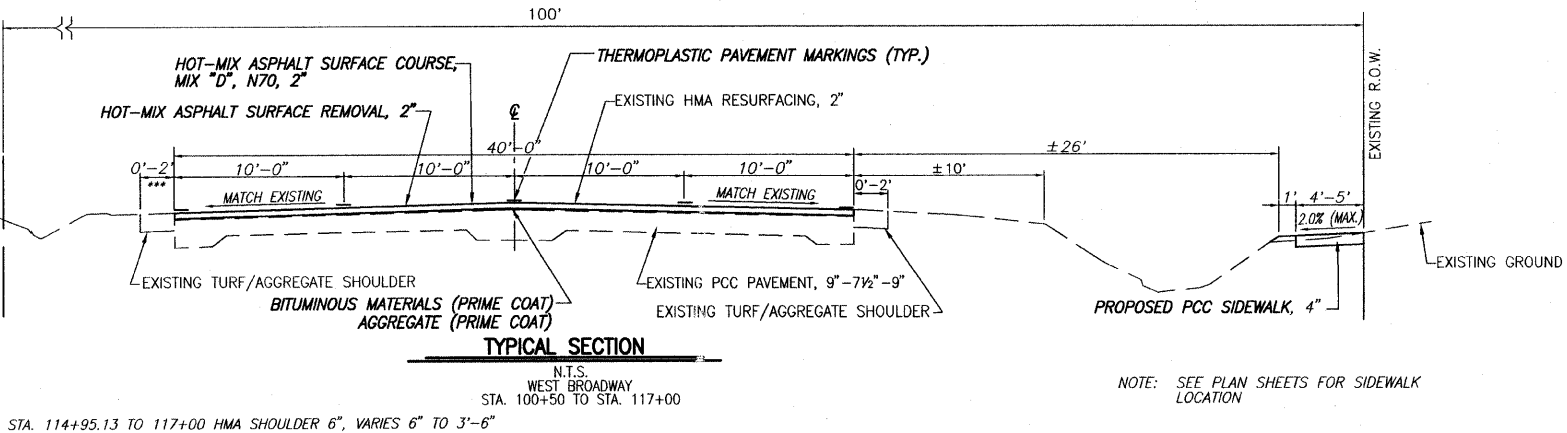
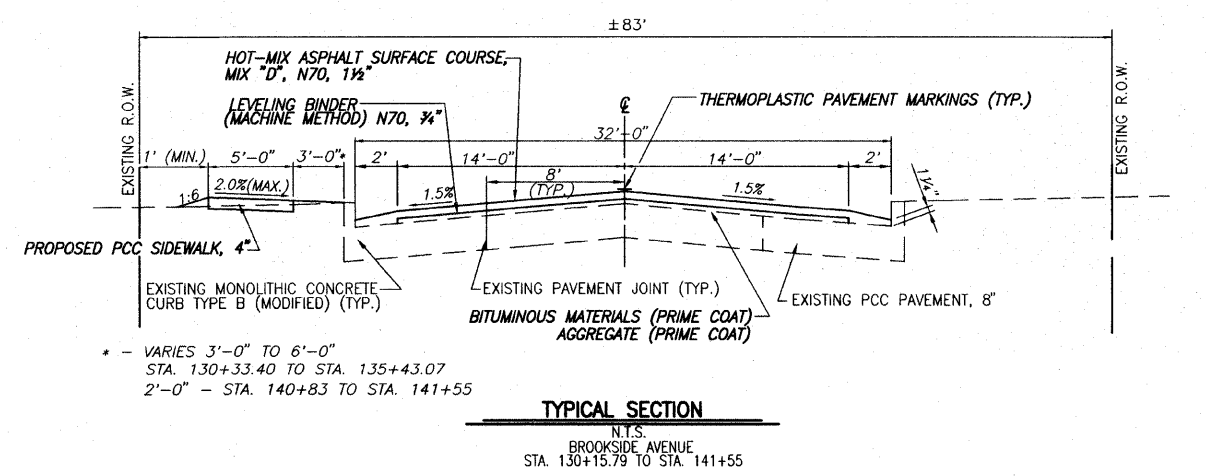
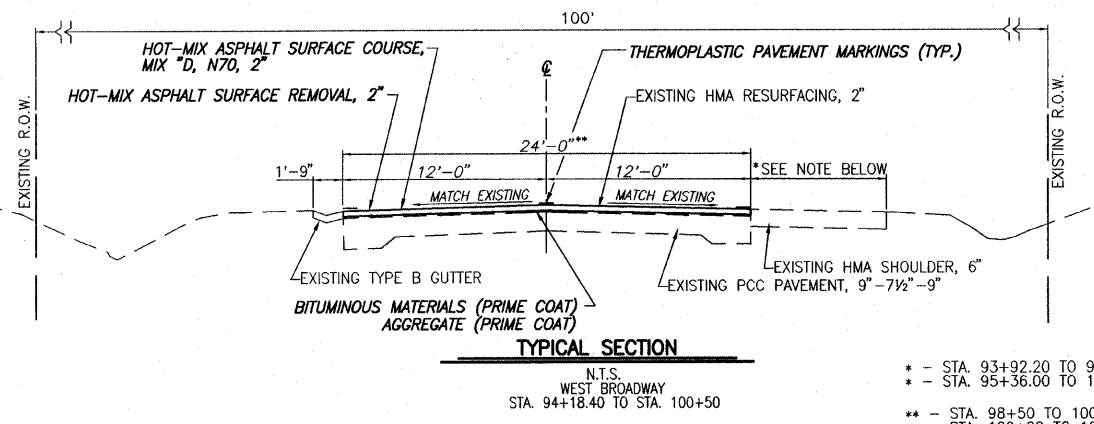
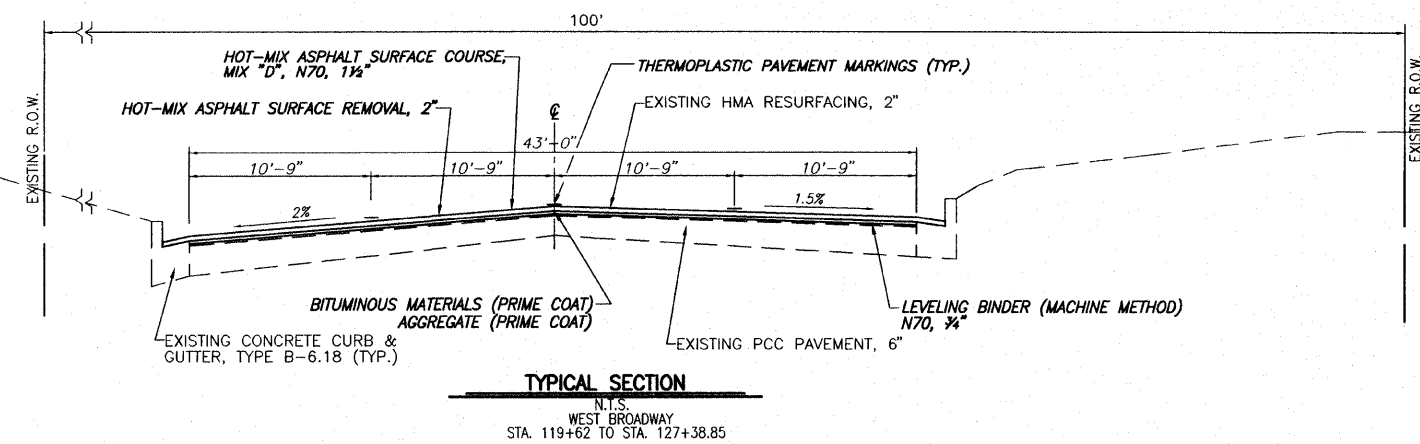
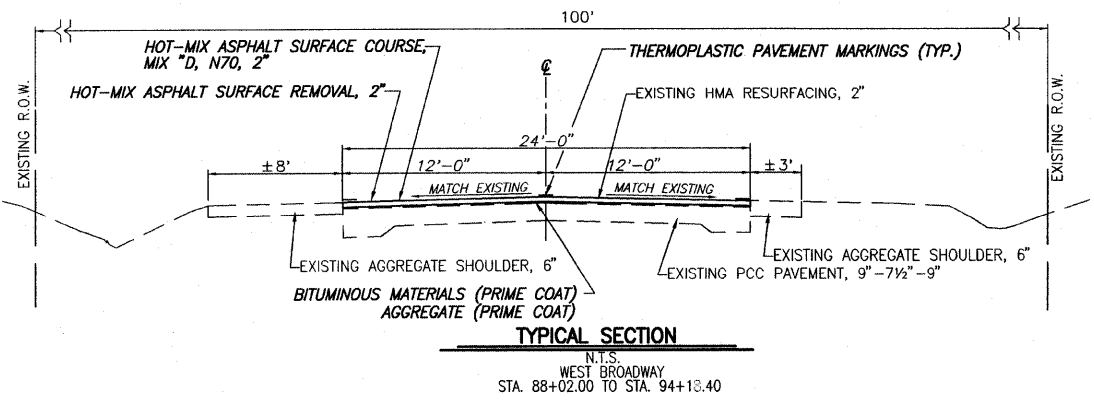
STATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	LEVELING BINDER (MACHINE METHOD), N70	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SURFACE REMOVAL, 2"
	GALLON	TON	TON	TON	TON	SQ YD
WEST BROADWAY -- 88+02 TO 127+38.85	1,233	24	1,728	161	26	16,671
BROOKSIDE AVENUE-- 130+15.80 TO 144+69.95	479	9	460	193	47	
TOTAL	1,712	33	2,188	354	73	16,671

### PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS							SHORT-TERM			POLYUREA PAVEMENT MARKINGS	
	SOLID WHITE 4" LANE LINE	WHITE 4" SKIP DASH LANE LINE	SOLID DOUBLE YELLOW 4" LANE LINE	SOLID YELLOW 12" DIAGONAL LINE	SOLID WHITE 24" STOP BAR	SOLID WHITE 6" CROSSWALK LINE	SOLID WHITE TURN OR THRU ARROW	YELLOW PAVEMENT MARKING	WHITE PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	SOLID WHITE 24" STOP BAR	SOLID WHITE 6" CROSSWALK LINE
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	FOOT	FOOT	SQ. FT.	FOOT	FOOT
WEST BROADWAY												
STA. 88+02 TO 100+40*	2,382		2,477					248		41		
STA. 100+40 RT.					20							
STA. 101+23						106						21
STA. 101+25 TO 119+58	3,558	900	3,597					366	732	183		
STA. 101+59 LT.					20							
STA. 119+58 RT.					23							
STA. 119+65						95						42
STA. 119+58 TO 120+38 LT.											52	148
STA. 120+58 LT.					27							
STA. 120+58 TO 126+37		300	1,157					116	232	58		
STA. 126+37 RT.					22							
STA. 127+37 LT.					22							
BROOKSIDE AVENUE												
STA. 130+30						82						
STA. 130+38 LT.					17							
STA. 130+38 TO 141+50			2,224									
STA. 141+50 TO 143+43			753	72				39		13		
STA. 143+43 TO 144+59	115		230				31.2	12	12	8		
STA. 144+59 RT.					24							
STA. 144+67						101						
TOTAL	6,055	1,200	10,438	72	175	384	31.2	781	976	303	52	211

NOTE: 127 RRPMS SHALL BE REMOVED ON WEST BROADWAY PRIOR TO MILLING OPERATIONS. PAVEMENT MARKERS WILL NOT BE REPLACED DURING THIS PROJECT.  
\* - LEFT EDGE LINE SHALL END AT STA. 99+45

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	4
STA. 88+02-127+38.85 & 130+15.79-145+05.89				
PROJECT# ARA-5064(019)		CONTRACT 97425		



**EXISTING PAVEMENT SLOPES - WEST BROADWAY**

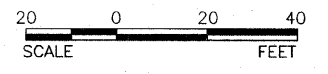
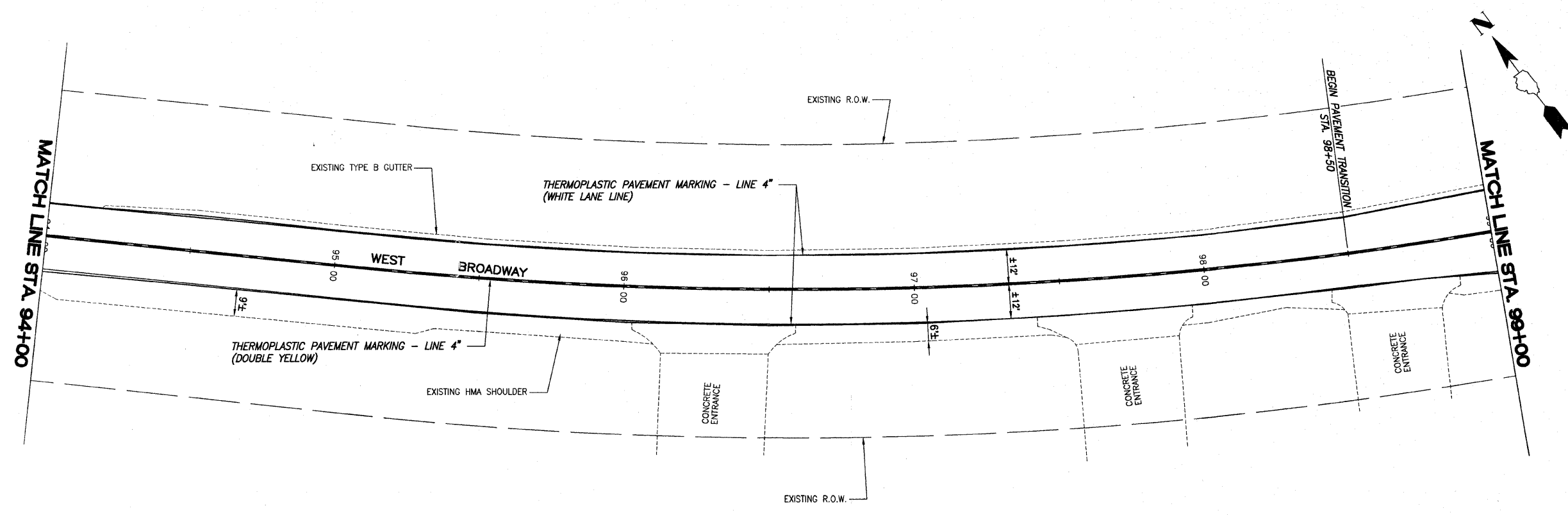
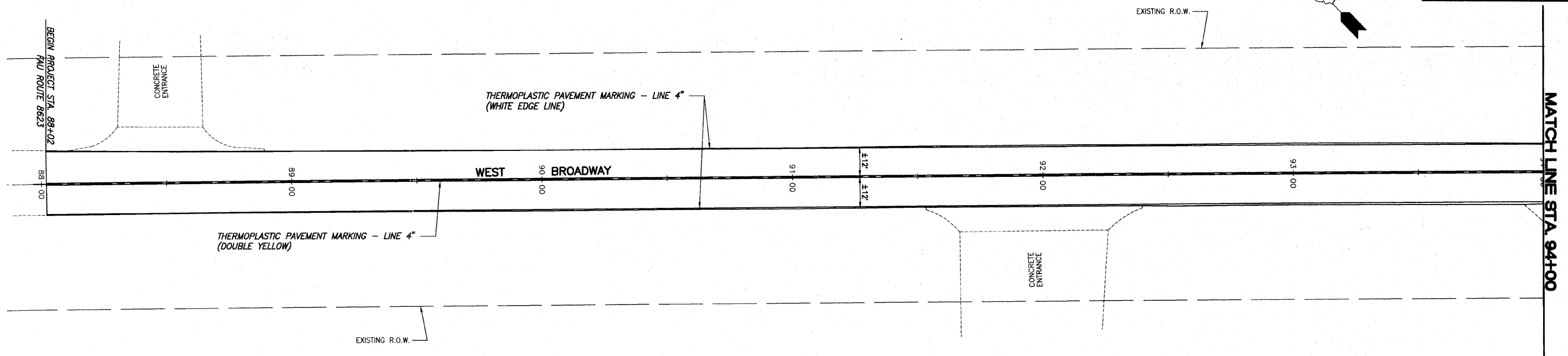
STA. TO STA.	LT.	RT.
88+00 TO 94+00	1.5±	1.5±
94+00 TO 97+00	TRANSITION TO 6.25±	
94+00 TO 99+50		TRANSITION TO -5.0±
97+00 TO 102+00	6.25±	
99+50 TO 103+00		-5.0%
102+00 TO 108+00	TRANSITION TO 1.8±	
103+00 TO 108+00		TRANSITION TO 1.8±
108+00 TO 118+50	1.25 - 1.8	1.5± AVG.
108+00 TO 119+62		1.2 - 1.8
118+50 TO 119+62	2.0 - 2.5	1.4± AVG.

- \* - STA. 93+92.20 TO 95+36.00, ±9'
- \* - STA. 95+36.00 TO 100+40.35, VARIES ±6' TO ±3'
- \*\* - STA. 98+50 TO 100+00, VARIES 24'-0" TO 40'-0"
- \*\* - STA. 100+00 TO 100+50, 40'-0"

NOTE: SEE PLAN SHEETS FOR SIDEWALK LOCATION

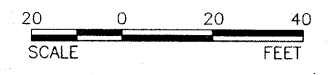
\*\*\* - MATCH EXISTING DEPTH  
NOTE: DITCH TO BE REGRADED AS NECESSARY TO CONSTRUCT SIDEWALK; SEE CROSS SECTIONS FOR GRADES AND SLOPES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623	09-00096-00-RS	MARION	22	5
STA. 88+02.00 TO STA. 99+00.00				
FEDERAL AID PROJECT			CONTRACT 97245	



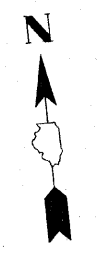
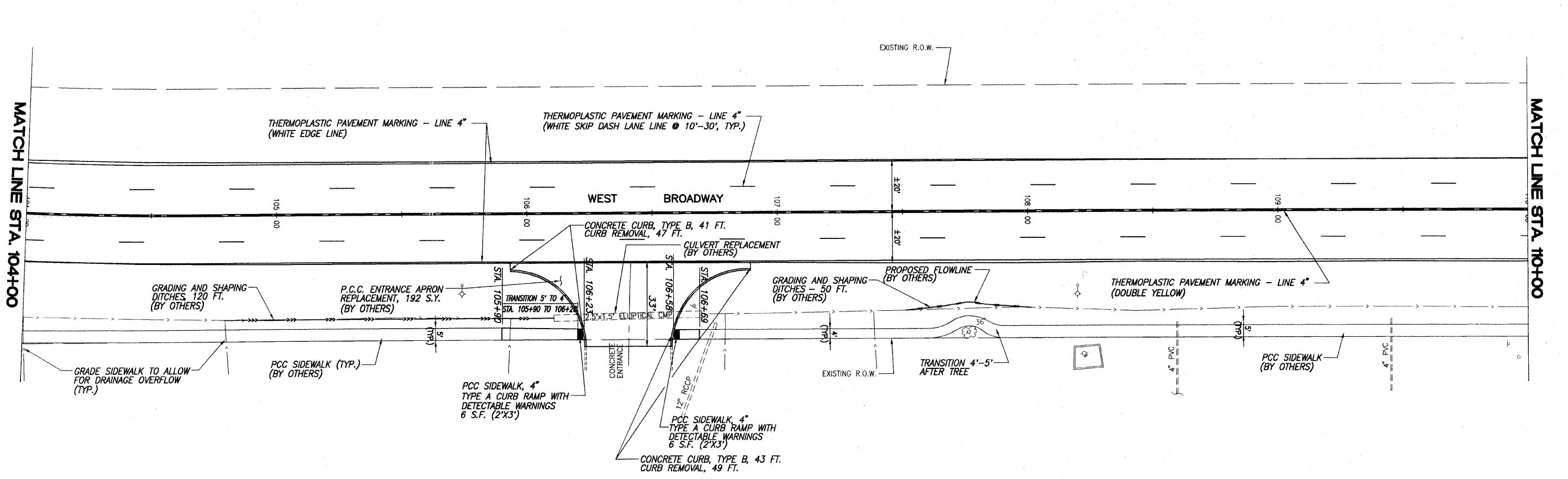
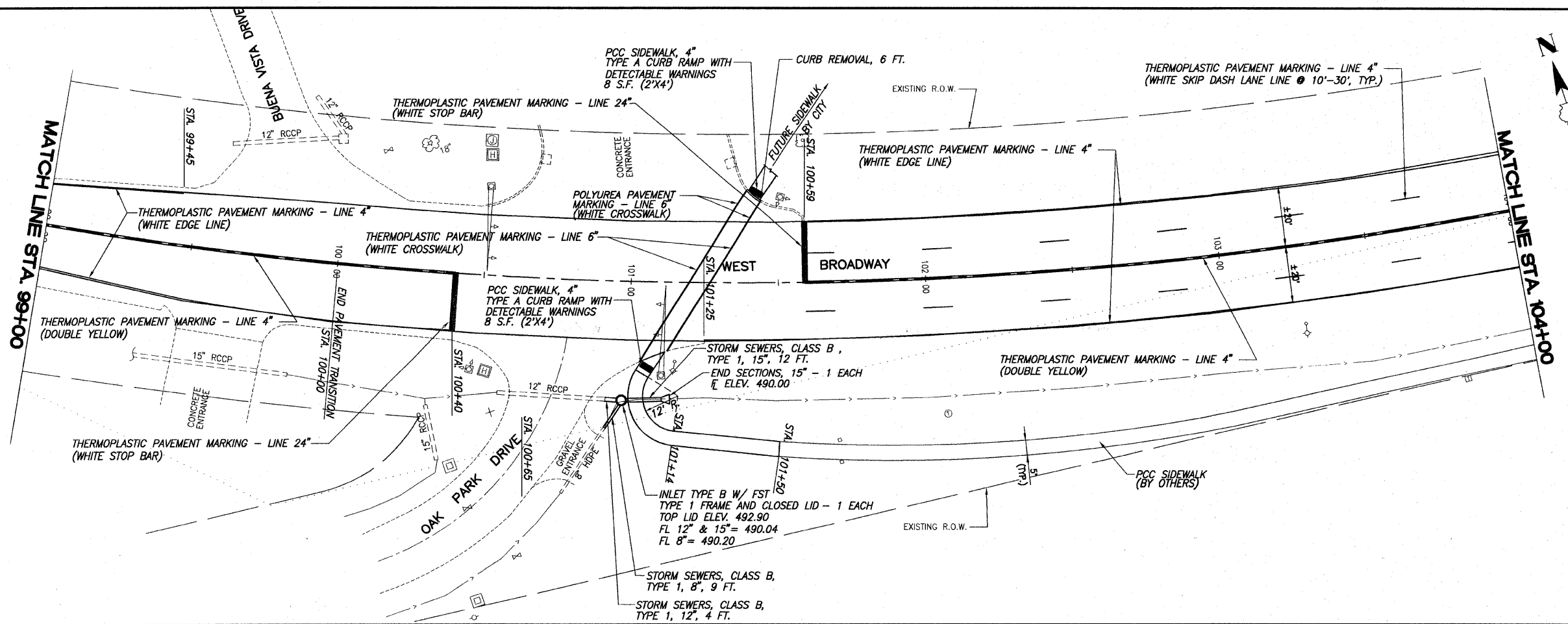
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- STORM SEWER INLET
  - ⊗ GRATED STORM SEWER INLET
  - ⊙ MANHOLE
  - ⊕ WATER METER
  - ⊖ WATER VALVE
  - ⊗ GAS VALVE
  - ⊙ FIRE HYDRANT
  - ⊕ UTILITY OR POWER POLE
  - ⊖ GUY WIRE
  - ⊗ LIGHT STANDARD
  - ⊙ TRAFFIC SIGNS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623	09-00096-00-RS	MARION	22	6
STA. 99+00.00 TO STA. 110+00.00				
FEDERAL AID PROJECT			CONTRACT 97245	



**LEGEND**

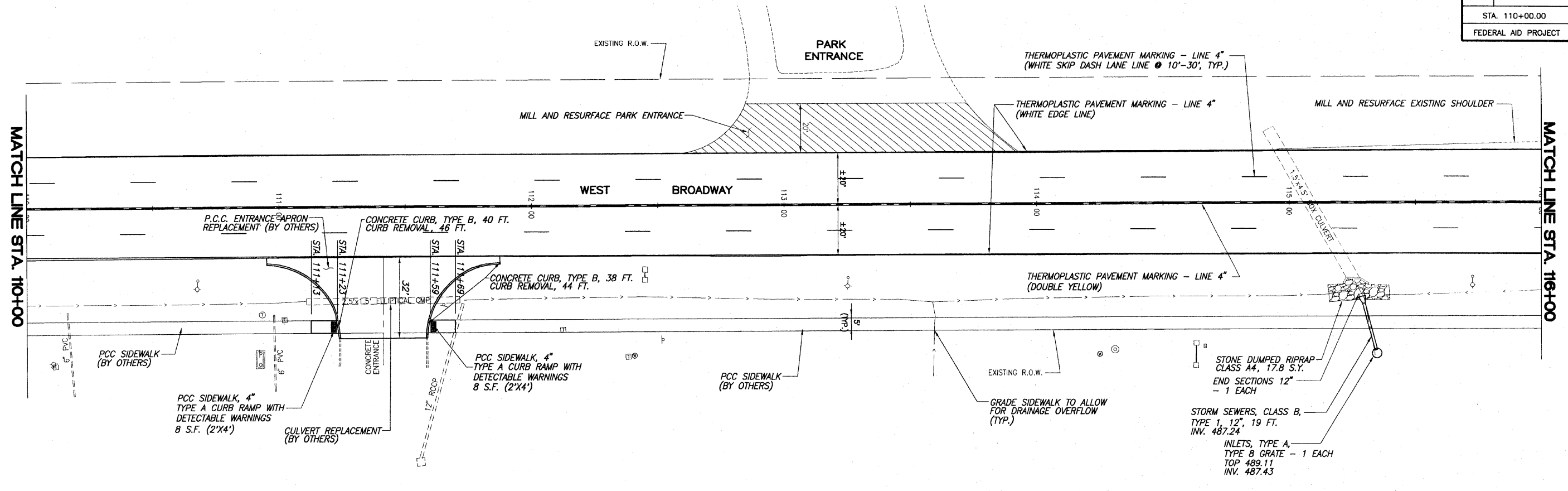
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- GRATED STORM SEWER INLET
- MANHOLE
- WATER METER
- WATER VALVE
- GAS VALVE
- FIRE HYDRANT
- UTILITY OR POWER POLE
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- LIGHT STANDARD
- TRAFFIC SIGNS



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623	09-00096-00-RS	MARION	22	7
STA. 110+00.00		TO	STA. 122+00.00	
FEDERAL AID PROJECT			CONTRACT 97245	

MATCH LINE STA. 110+00

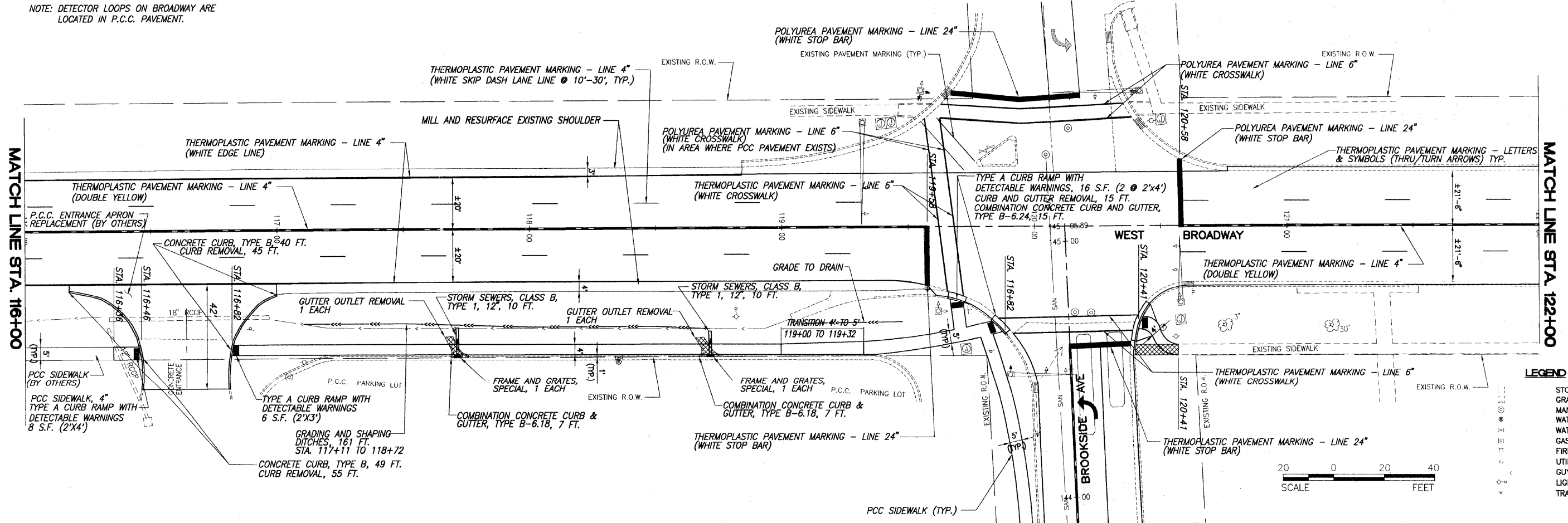
MATCH LINE STA. 116+00



NOTE: DETECTOR LOOPS ON BROADWAY ARE LOCATED IN P.C.C. PAVEMENT.

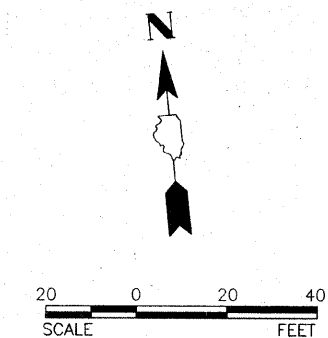
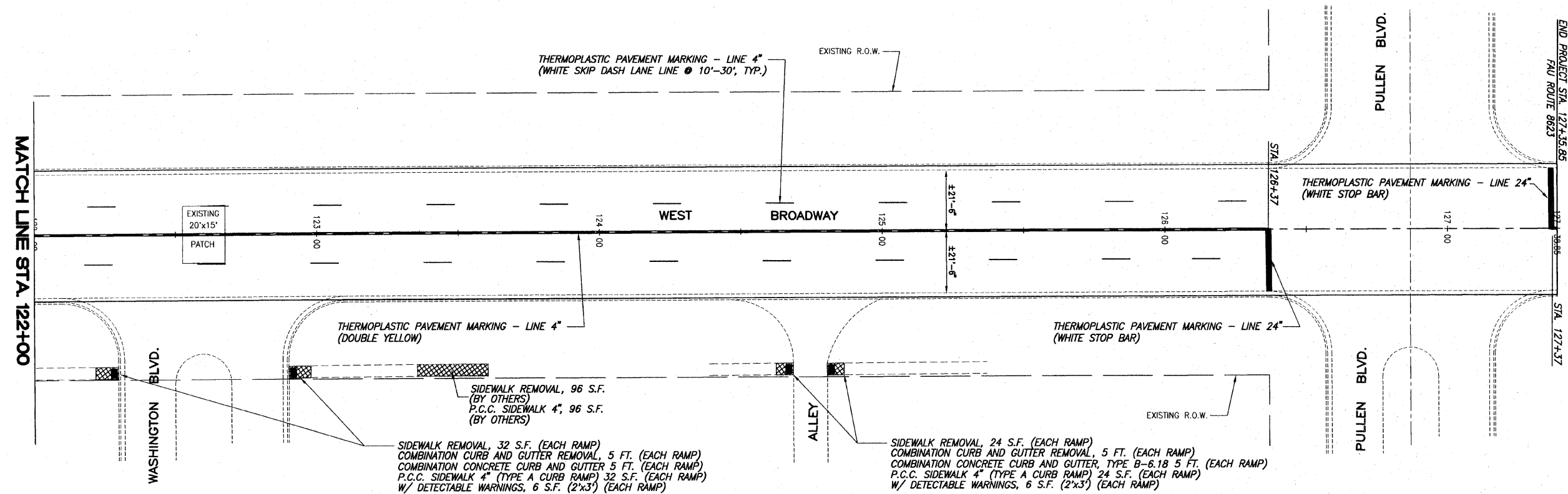
MATCH LINE STA. 116+00

MATCH LINE STA. 122+00



- LEGEND**
- STORM SEWER INLET
  - GRATED STORM SEWER INLET
  - MANHOLE
  - WATER METER
  - WATER VALVE
  - GAS VALVE
  - FIRE HYDRANT
  - UTILITY OR POWER POLE
  - GUY WIRE
  - LIGHT STANDARD
  - TRAFFIC SIGNS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623	09-00096-00-RS	MARION	22	8
STA. 122+00.00		TO	STA. 127+35.85	
FEDERAL AID PROJECT			CONTRACT 97245	

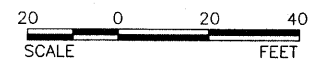
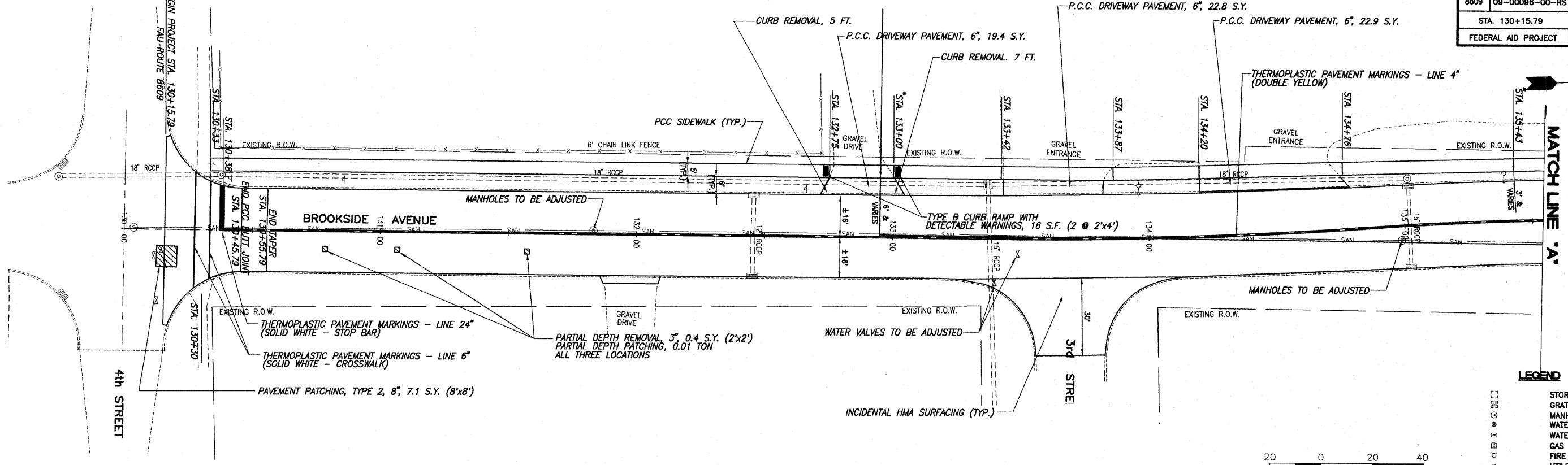


- LEGEND**
- STORM SEWER INLET
  - ▣ GRATED STORM SEWER INLET
  - MANHOLE
  - ⊙ WATER METER
  - ⊕ WATER VALVE
  - ⊖ GAS VALVE
  - ⊙ FIRE HYDRANT
  - ⊕ UTILITY OR POWER POLE
  - ⊖ GUY WIRE
  - ⊙ LIGHT STANDARD
  - ⊕ TRAFFIC SIGNS



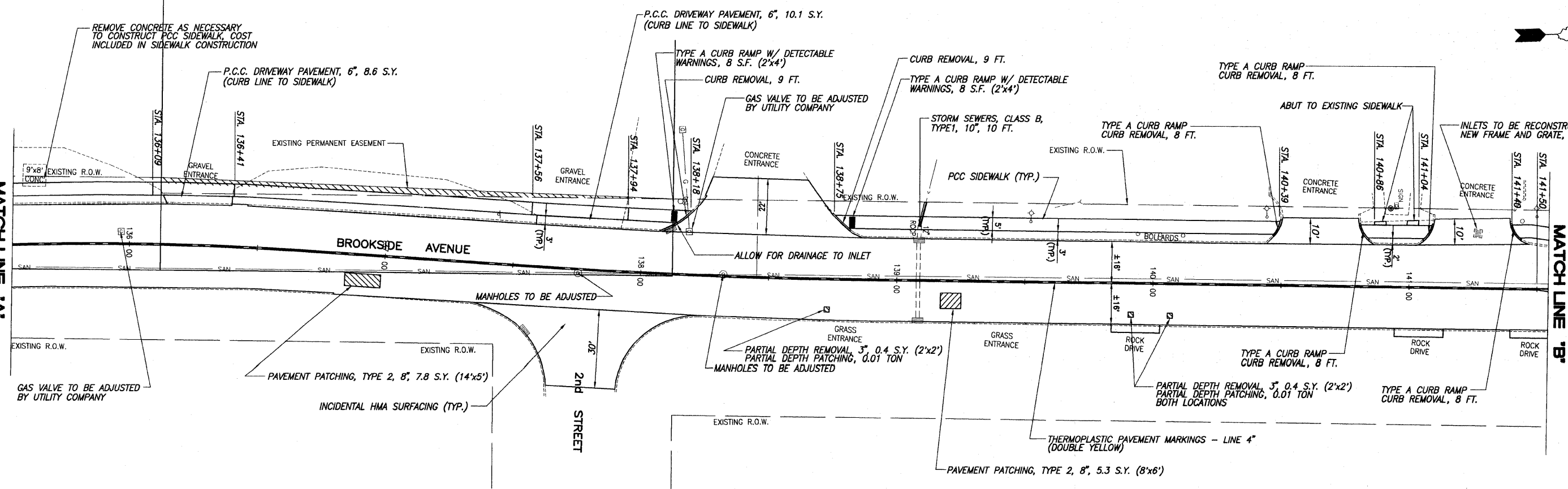
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8609	09-00096-00-RS	MARION	22	9
STA. 130+15.79		TO STA. 141+54.52		
FEDERAL AID PROJECT		CONTRACT 97245		

\* TRANSITION DISTANCE FROM B/C FROM 6' TO 3'  
6' AT STA. 133+00 AND 3' AT STA. 135+43

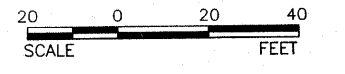


**LEGEND**

- STORM SEWER INLET
- GRATED STORM SEWER INLET
- MANHOLE
- WATER METER
- WATER VALVE
- GAS VALVE
- FIRE HYDRANT
- UTILITY OR POWER POLE
- GUY WIRE
- LIGHT STANDARD
- TRAFFIC SIGNS



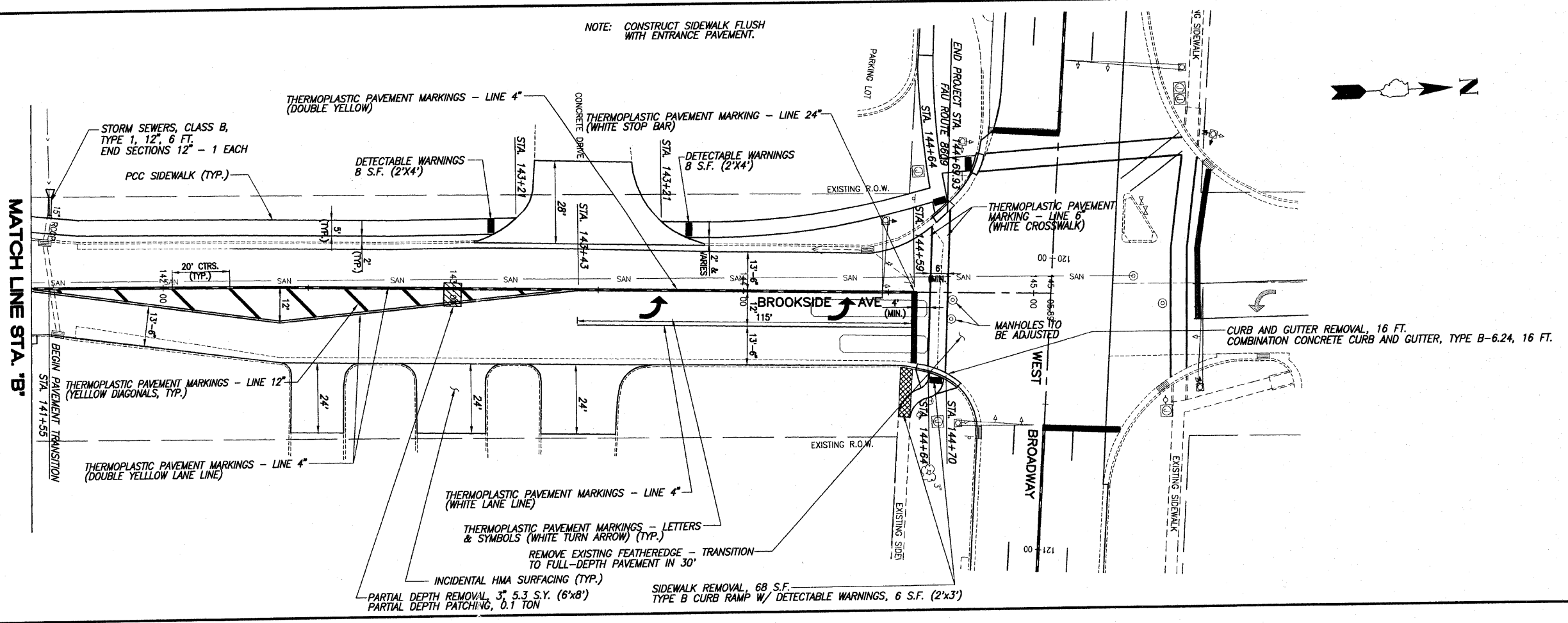
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8809	09-00096-00-RS	MARION	22	10
STA. 141+54.52 TO STA. 144+89.93				
FEDERAL AID PROJECT			CONTRACT 97245	



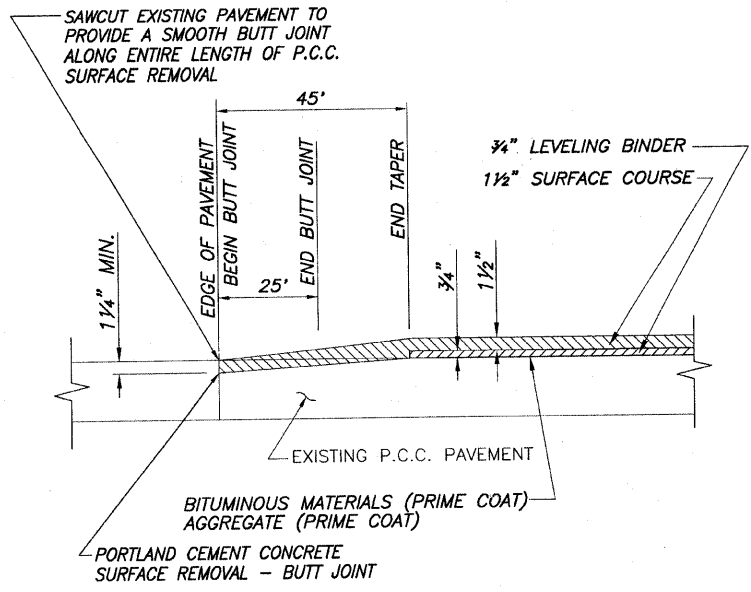
**LEGEND**

- ☐ STORM SEWER INLET
- ⊕ GRATED STORM SEWER INLET
- MANHOLE
- ⊙ WATER METER
- ⊗ WATER VALVE
- ⊕ GAS VALVE
- ⊙ FIRE HYDRANT
- ⊕ UTILITY OR POWER POLE
- ⊙ GUY WIRE
- ⊕ LIGHT STANDARD
- ⊙ TRAFFIC SIGNS

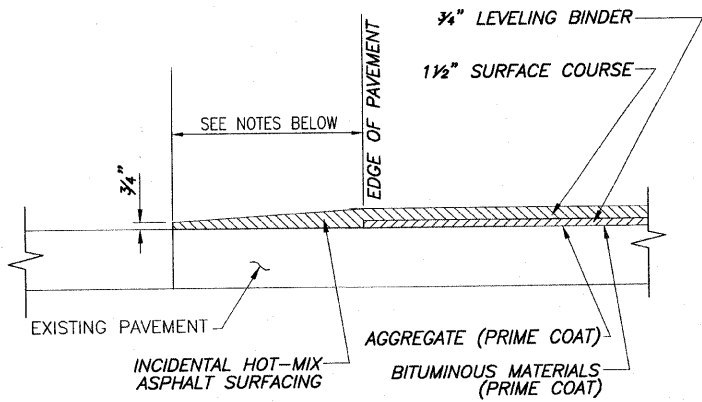
NOTE: CONSTRUCT SIDEWALK FLUSH WITH ENTRANCE PAVEMENT.



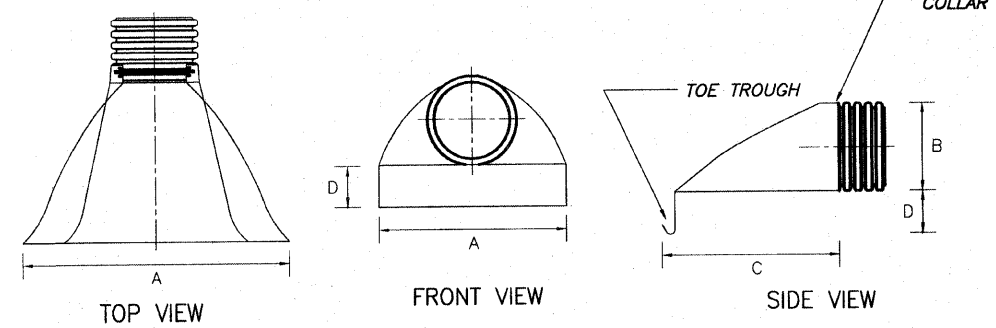
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	11
FEDERAL AID PROJECT		CONTRACT 97245		



**BUTT JOINT DETAIL**  
N.T.S.  
BROOKSIDE AT 4TH STREET

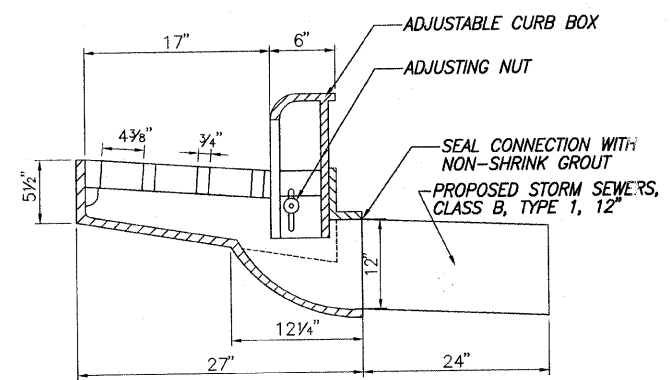


**SECTIONAL VIEW B-B**



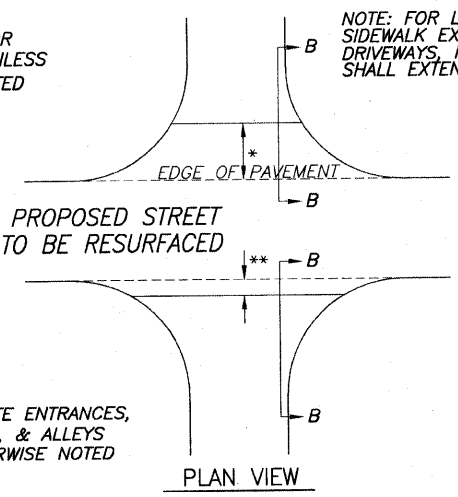
DIMENSIONAL REFERENCE	PIPE DIAMETER (inches)					
	12	15	18	24	30	36
A (IN)	42	42	59	59	82	82
B (IN)	14	17	21	27	34	41
C (IN)	34	34	48	48	58	58
D (IN)	6	6	6	6	6	6

**CORRUGATED HDPE FLARED END SECTIONS DETAIL**  
N.T.S.



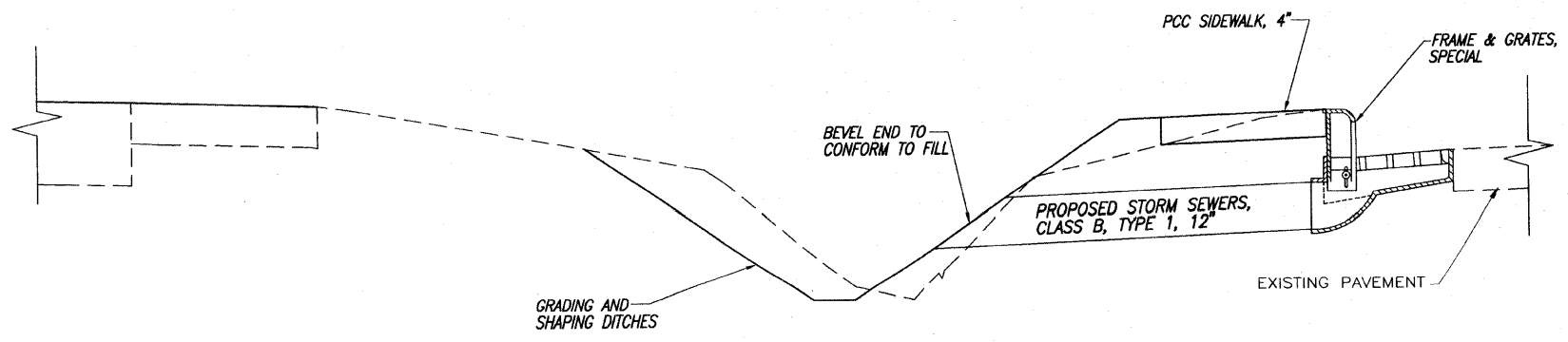
**FRAMES AND GRATES, SPECIAL**  
N.T.S.

\* 10' TYPICAL FOR SIDE ROADS UNLESS OTHERWISE NOTED



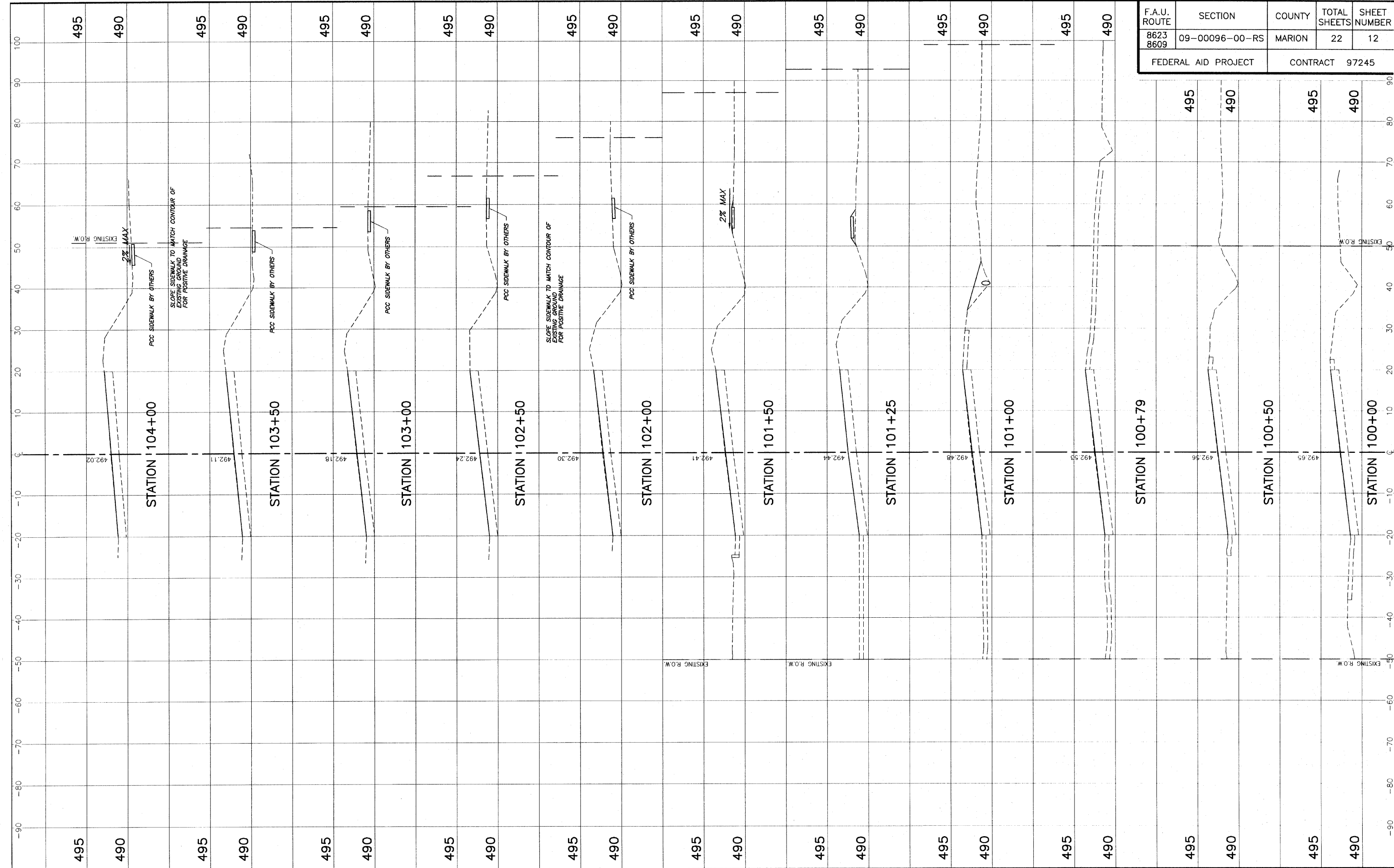
**FEATHEREDGE DETAIL**  
N.T.S.

\*\* 3' FOR PRIVATE ENTRANCES, PARKING LOTS, & ALLEYS UNLESS OTHERWISE NOTED



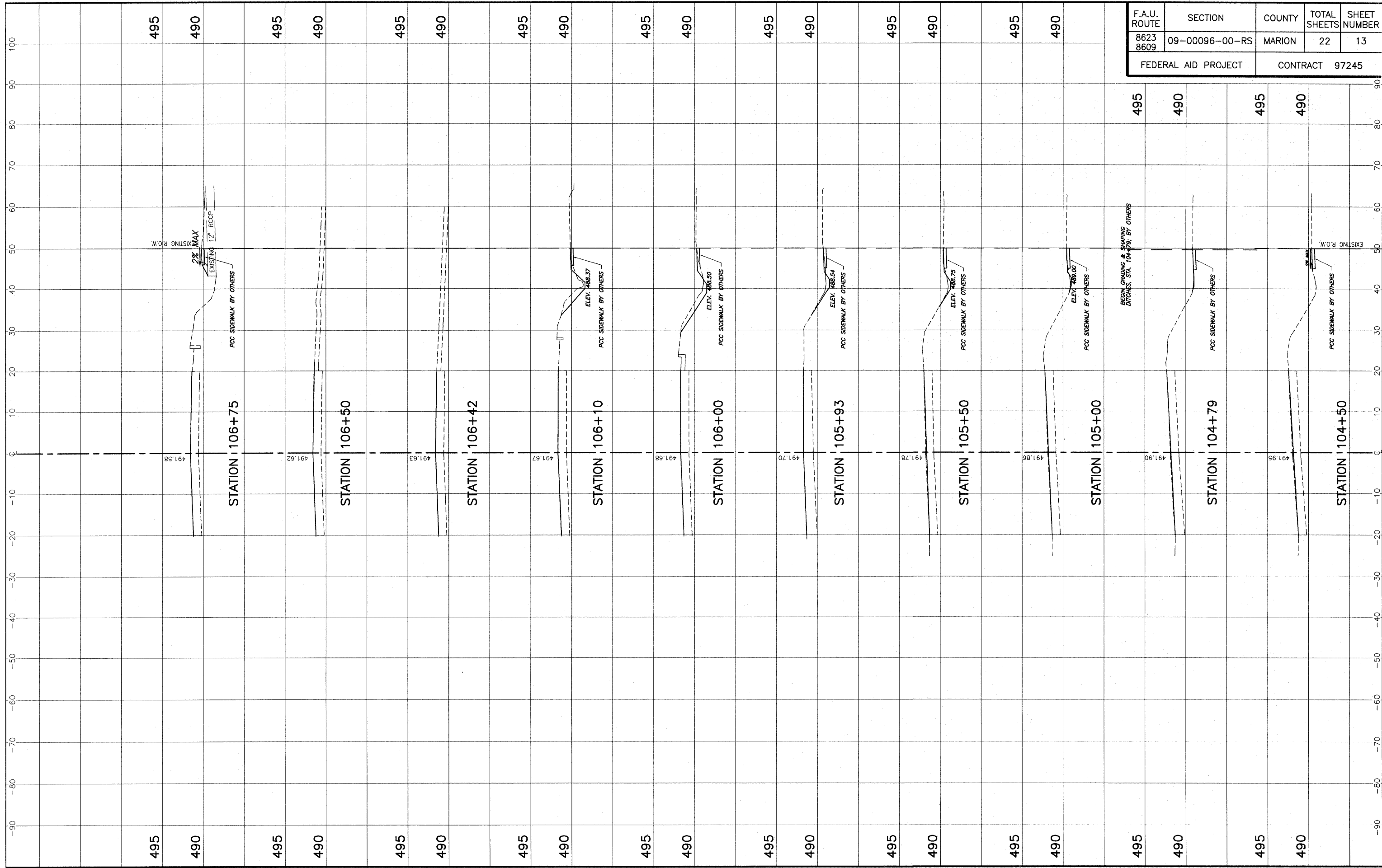
**FRAME & GRATE SECTION VIEW**  
N.T.S.

F.A.U. ROUTE 8623 8609	SECTION 09-00096-00-RS	COUNTY MARION	TOTAL SHEETS 22	SHEET NUMBER 12
FEDERAL AID PROJECT		CONTRACT 97245		



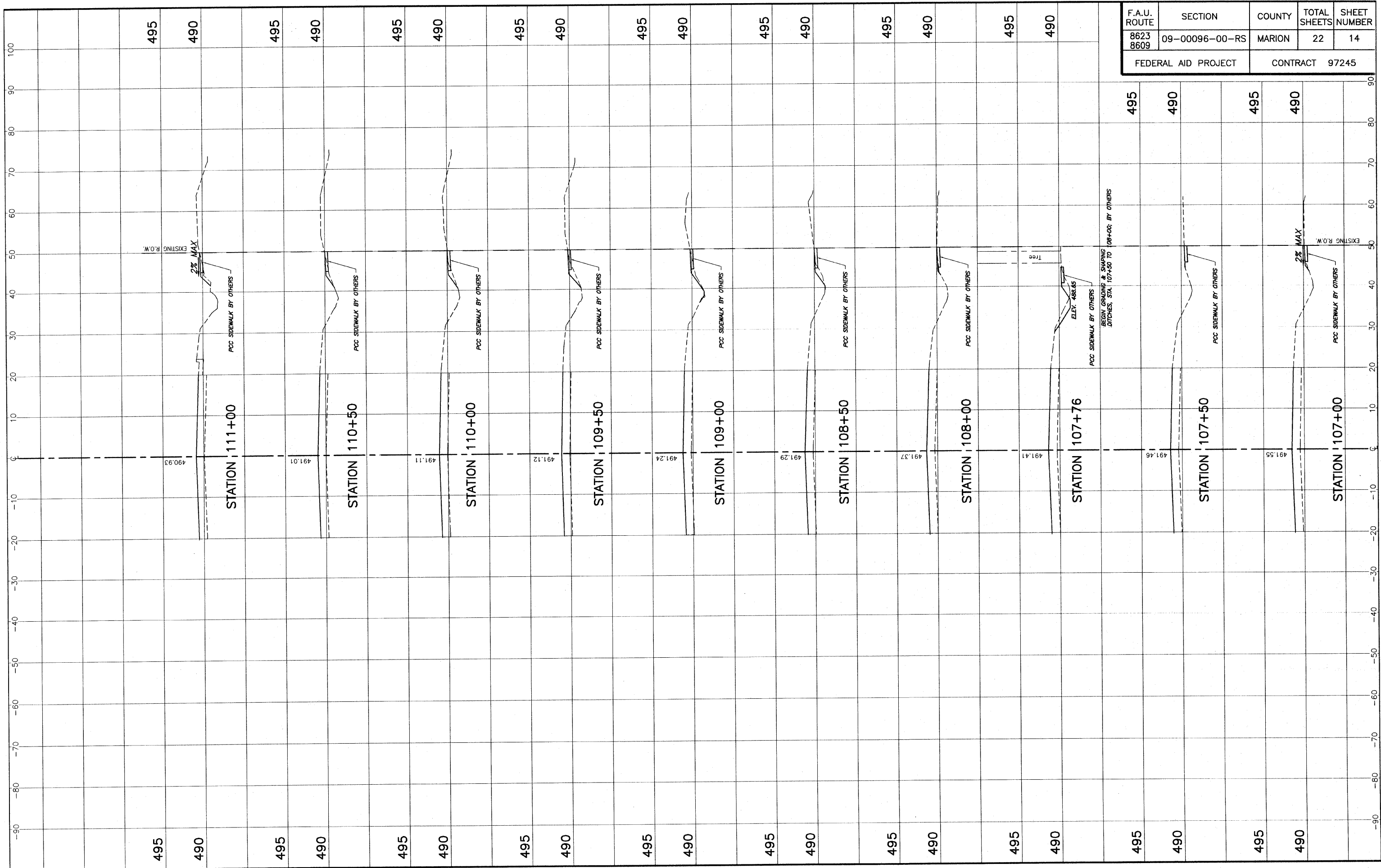
STA. 100+00 - STA. 104+00 CROSS SECTIONS  
WEST BROADWAY IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	13
FEDERAL AID PROJECT		CONTRACT 97245		



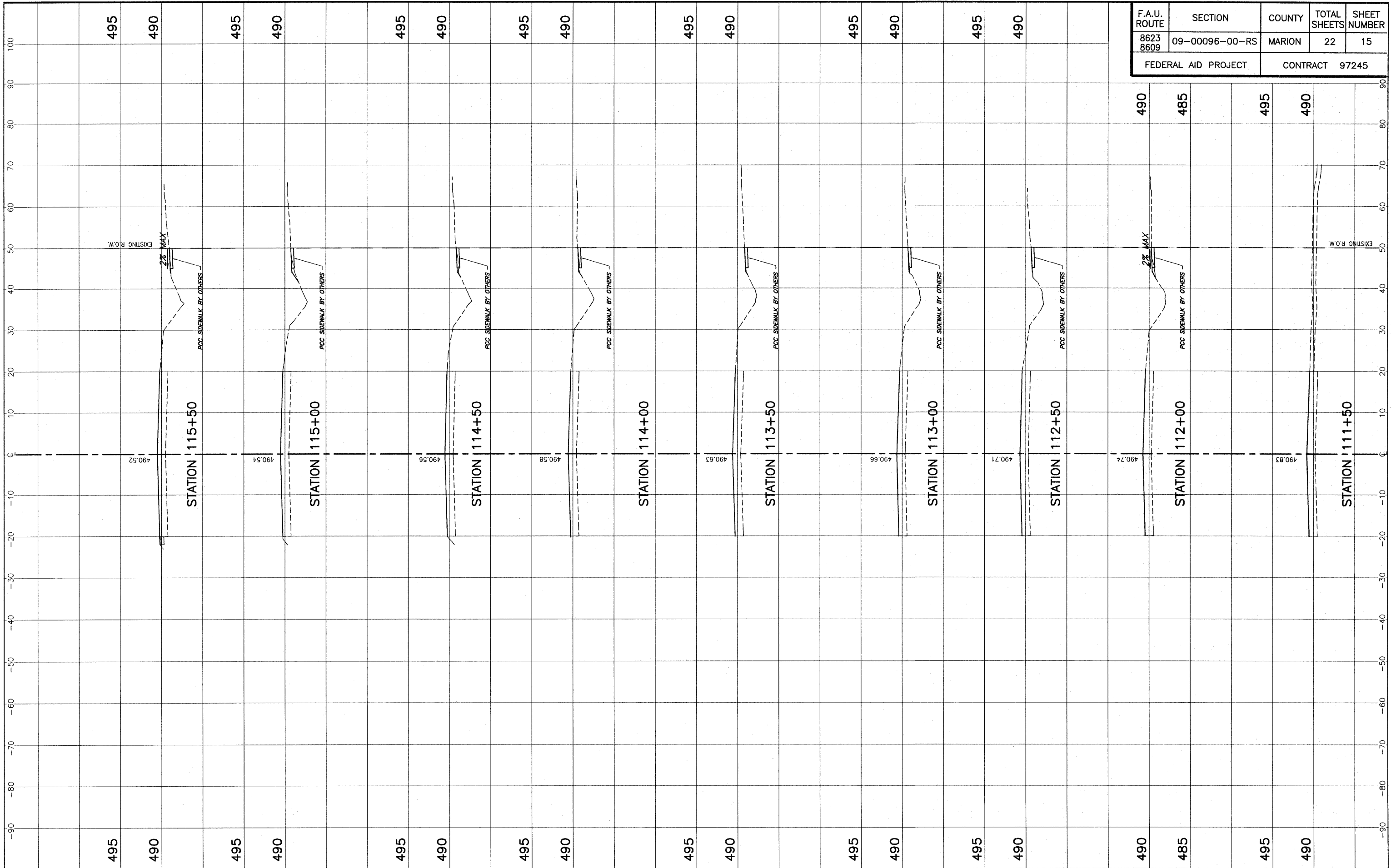
STA. 104+50 - STA. 106+75 CROSS SECTIONS  
WEST BROADWAY IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	14
FEDERAL AID PROJECT		CONTRACT 97245		



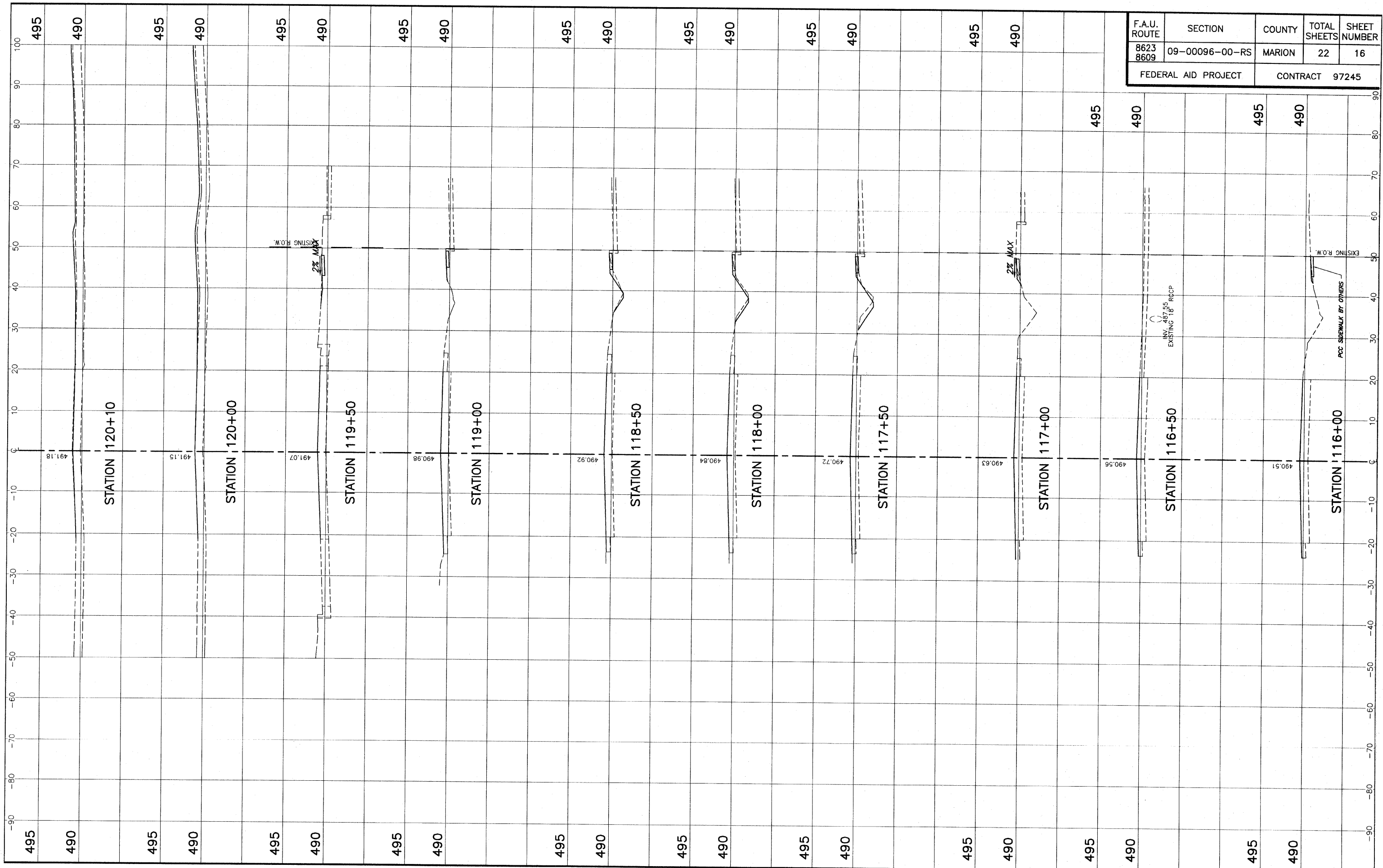
STA. 107+00 - STA. 111+00 CROSS SECTIONS  
WEST BROADWAY IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	15
FEDERAL AID PROJECT			CONTRACT 97245	



STA. 111+50 - STA. 115+50 CROSS SECTIONS  
BROADWAY STREET IMPROVEMENTS CENTRALIA, ILLINOIS

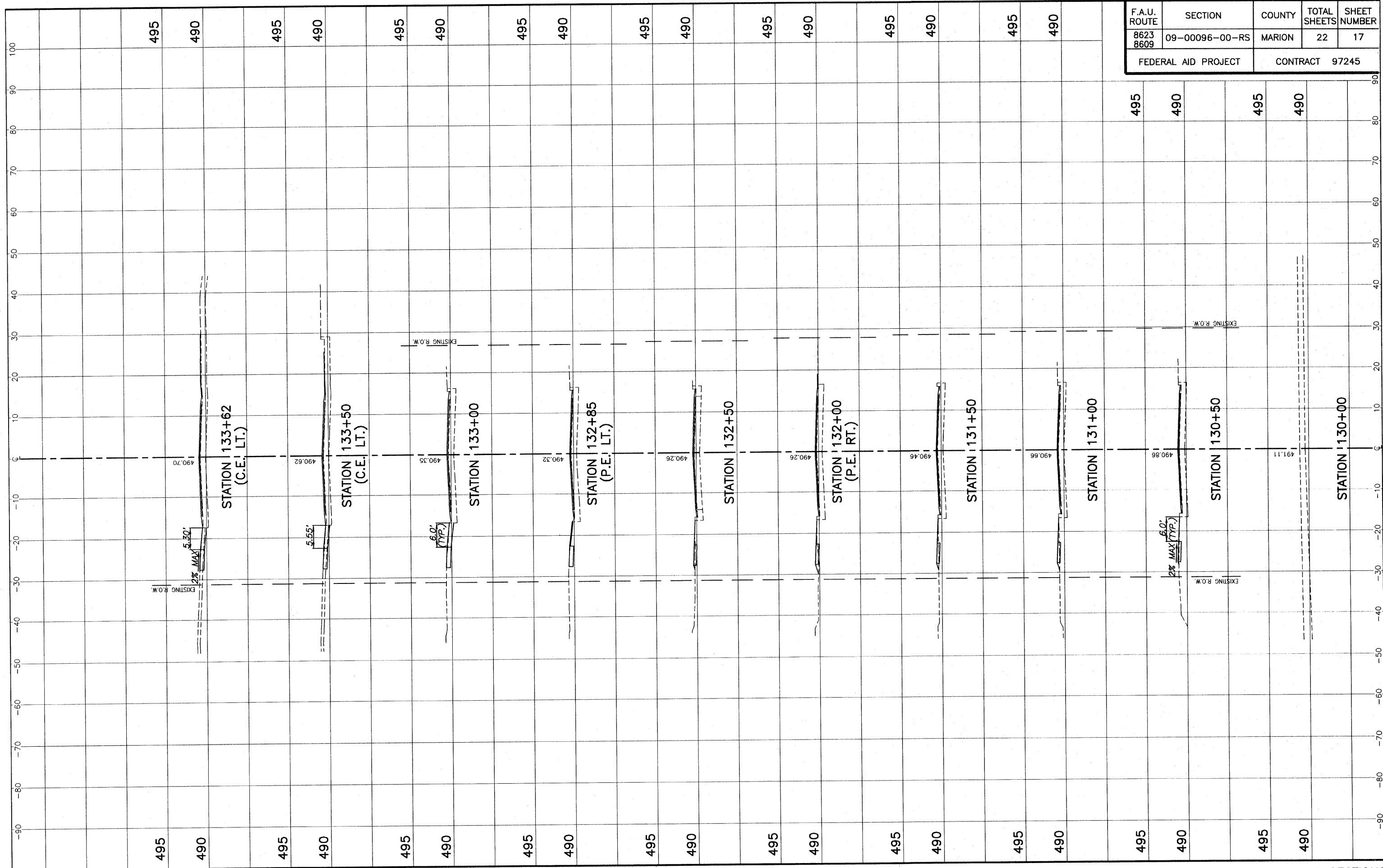
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	16
FEDERAL AID PROJECT		CONTRACT 97245		



STA. 116+00 - STA. 120+10 CROSS SECTIONS  
BROADWAY STREET IMPROVEMENTS CENTRALIA, ILLINOIS

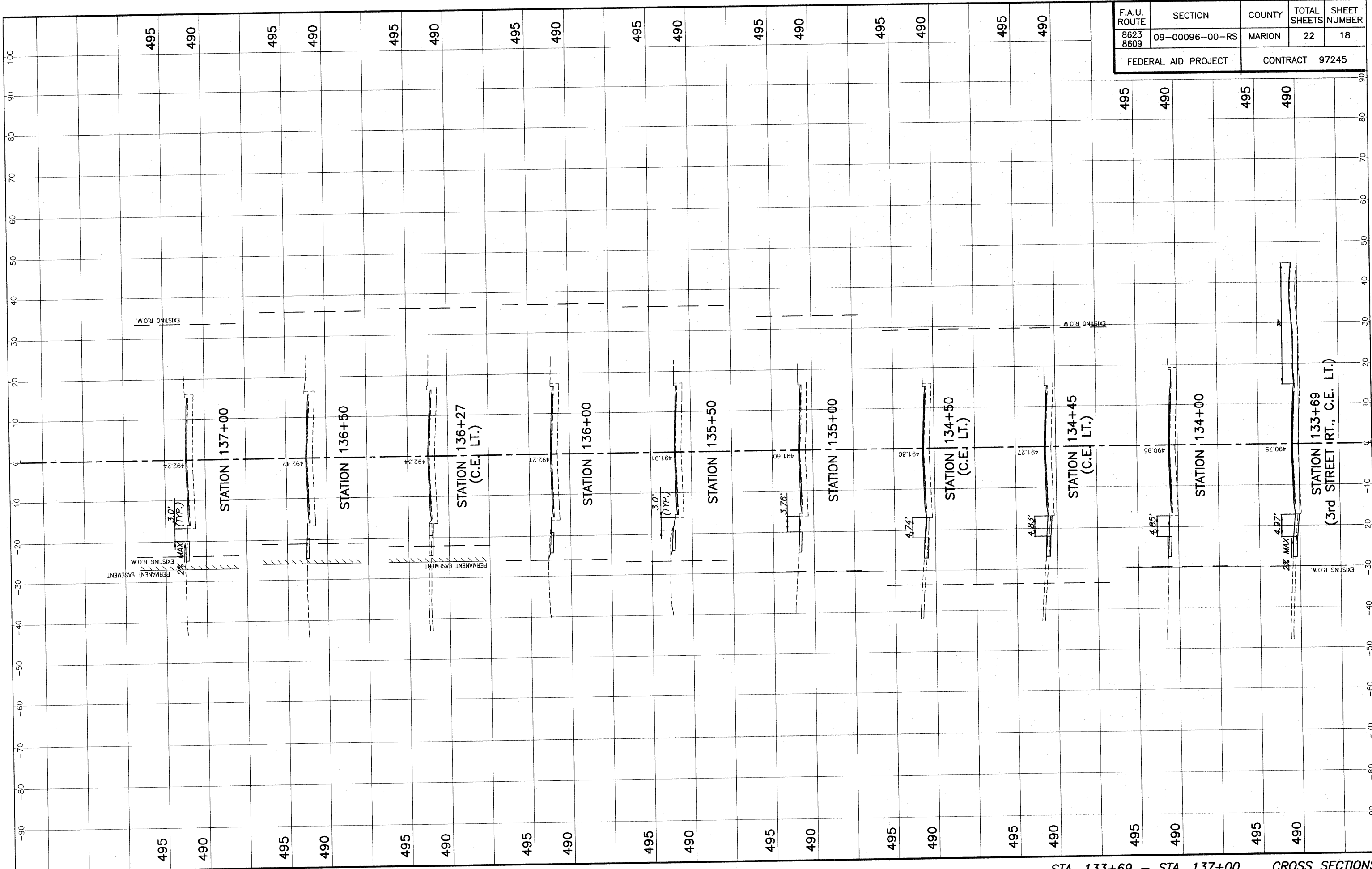


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	17
FEDERAL AID PROJECT		CONTRACT 97245		



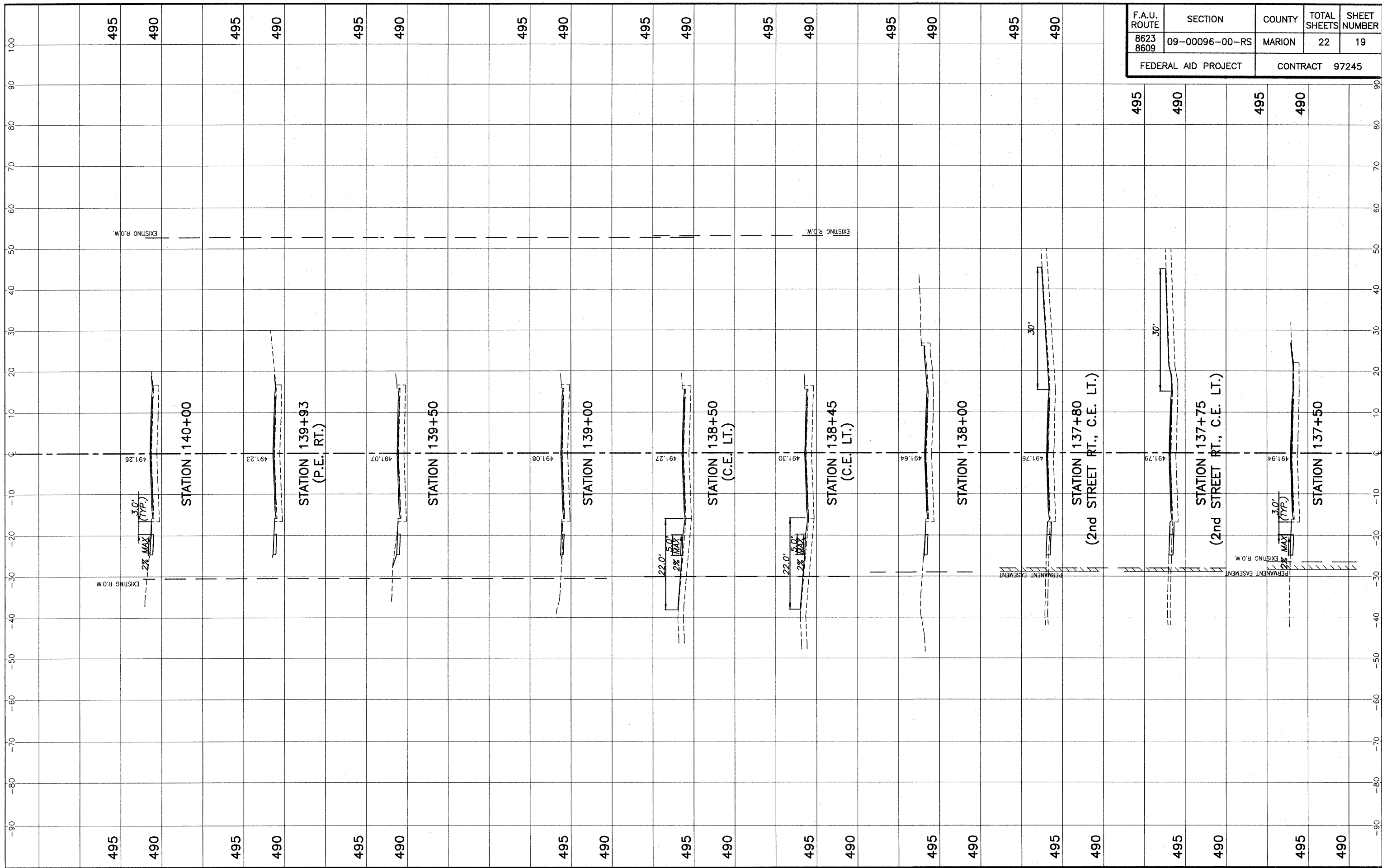
STA. 130+00 - STA. 133+62 CROSS SECTIONS  
 BROOKSIDE AVENUE IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	18
FEDERAL AID PROJECT		CONTRACT 97245		



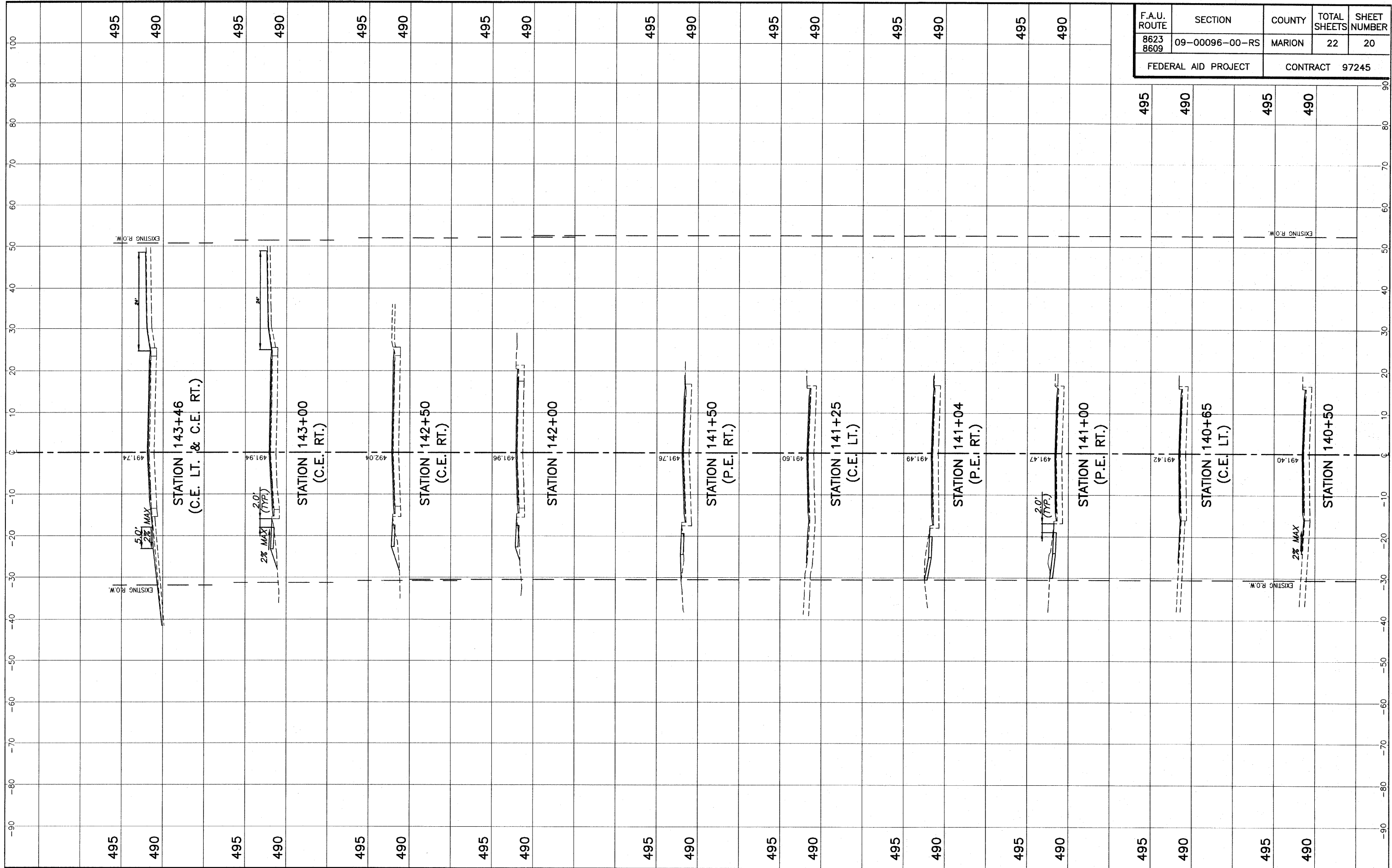
STA. 133+69 - STA. 137+00 CROSS SECTIONS  
 BROOKSIDE AVENUE IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	19
FEDERAL AID PROJECT		CONTRACT 97245		



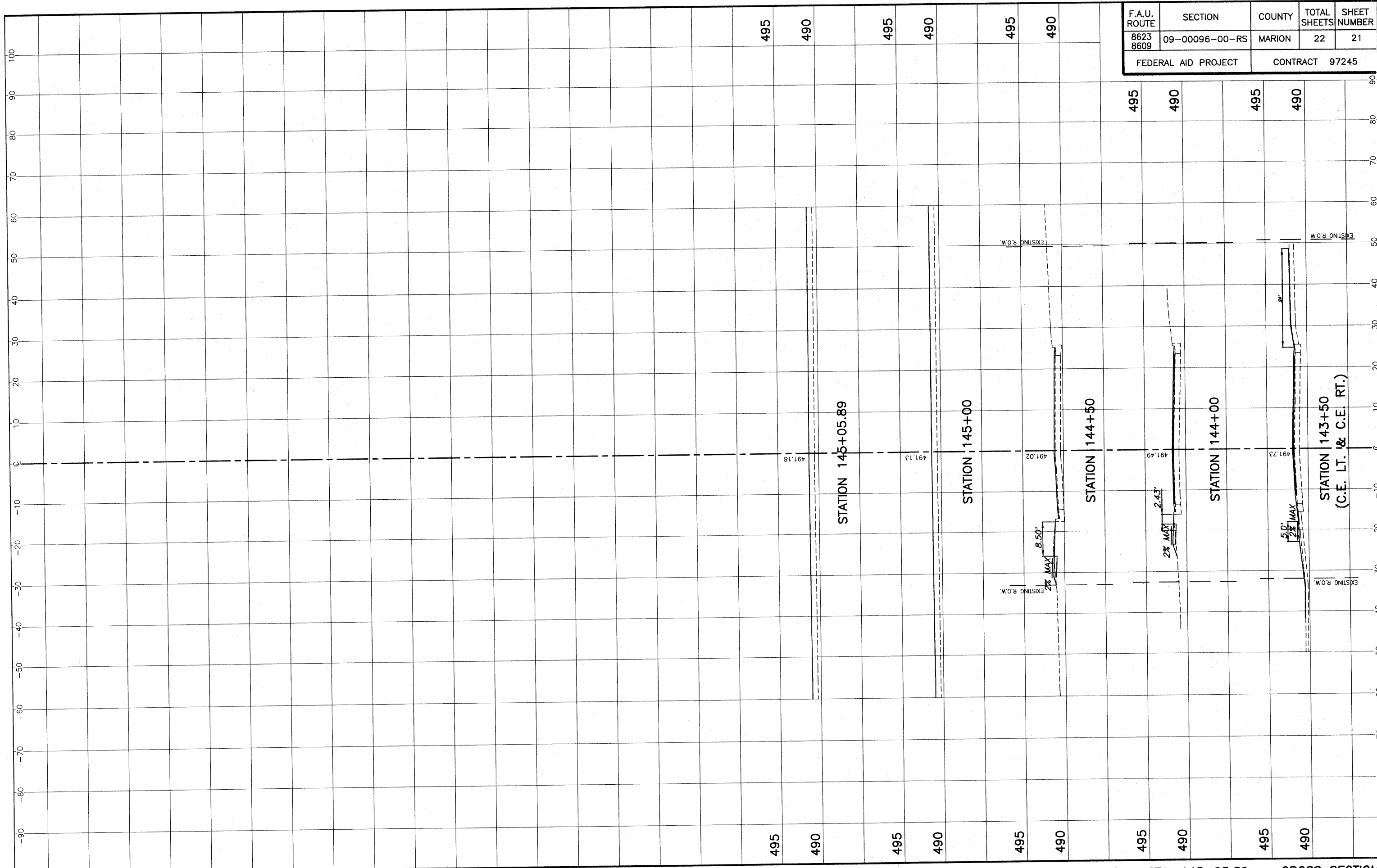
STA. 137+50 - STA. 140+00 CROSS SECTIONS  
 BROOKSIDE AVENUE IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	20
FEDERAL AID PROJECT		CONTRACT 97245		



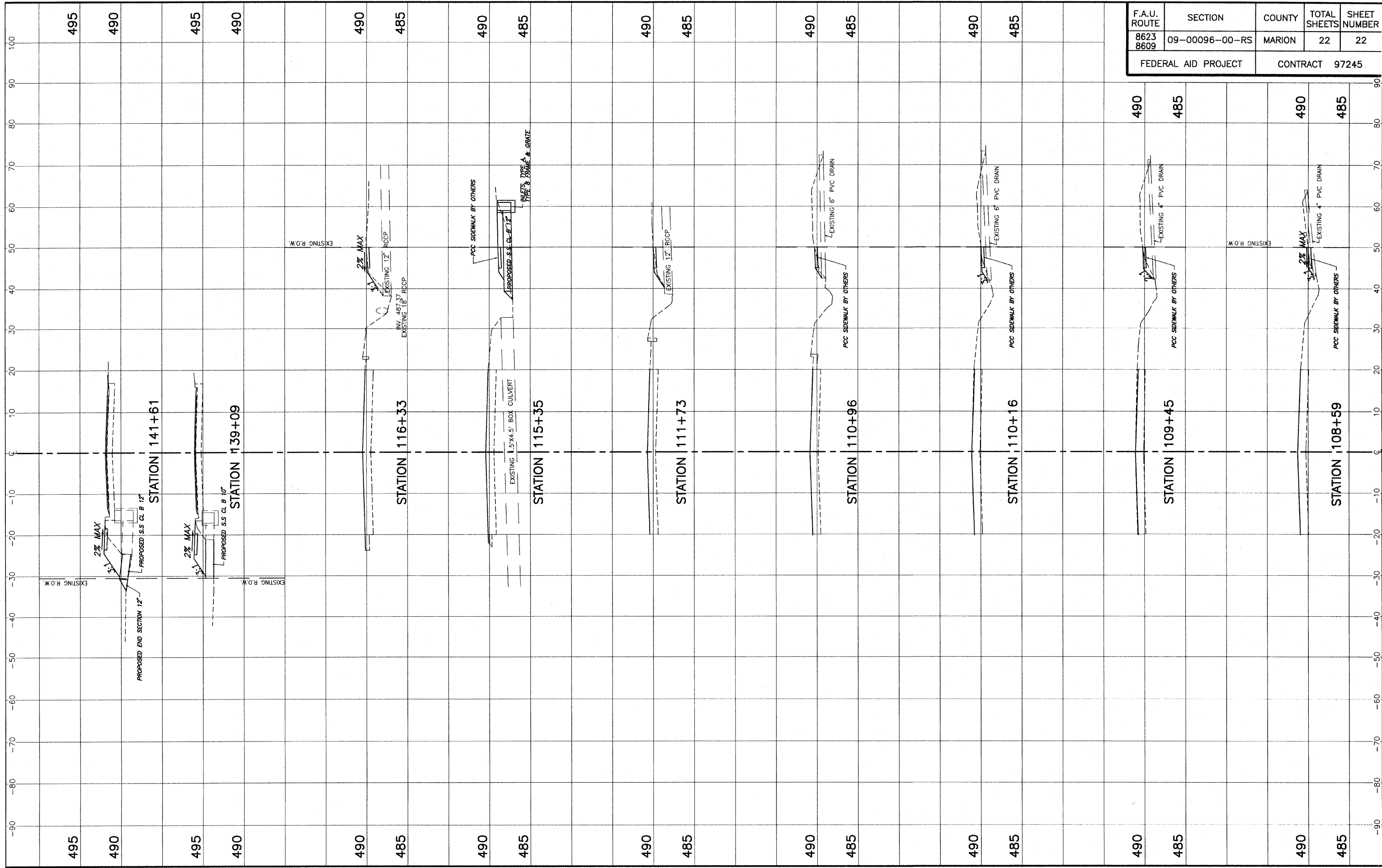
STA. 140+50 - STA. 143+46 CROSS SECTIONS  
 BROOKSIDE AVENUE IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	21
FEDERAL AID PROJECT		CONTRACT 97245		



STA. 143+50 - STA. 145+05.89 CROSS SECTIONS  
 BROOKSIDE AVENUE IMPROVEMENTS CENTRALIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
8623 8609	09-00096-00-RS	MARION	22	22
FEDERAL AID PROJECT		CONTRACT 97245		



DETAILED DRAINAGE CROSS SECTIONS  
WEST BROADWAY IMPROVEMENTS CENTRALIA, ILLINOIS