

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**

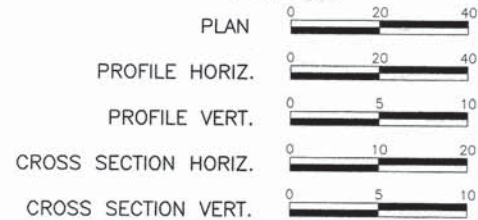
FAU ROUTE 9148 (MILBURN SCHOOL ROAD)
MILBURN SCHOOL ROAD PHASE 4 IMPROVEMENTS
SECTION 11-00059-03-PV
PROJECT NO. M-5011(352)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-373-11
STU PROGRAM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	1
FEDERAL AID PROJECT			CONTRACT 97593	

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SCALES:



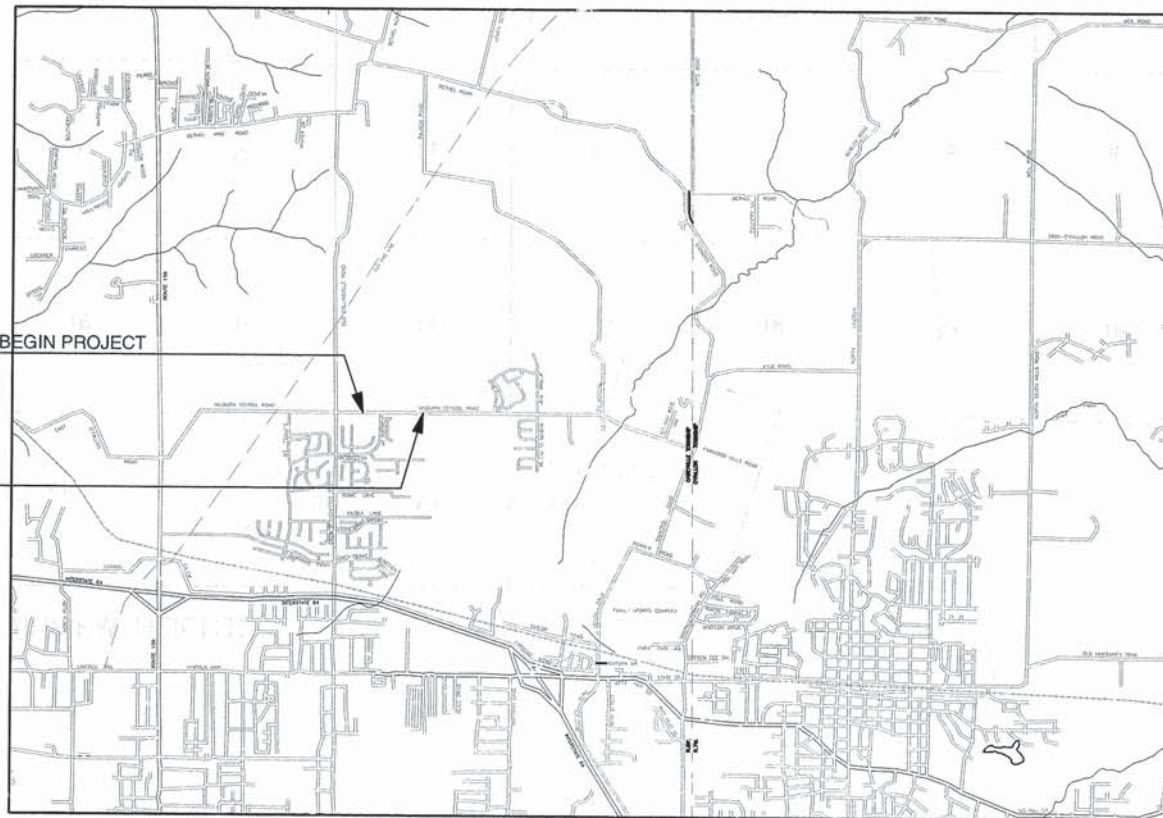
MILBURN SCHOOL ROAD

ROADWAY DESIGNATION: URBAN LOCAL COLLECTOR
DESIGN SPEED: 45 M.P.H.

ADT: CURRENT (2015) 5100
20-YEAR (2035) 8200
SU = 2.0%

BEGIN SECTION - BEGIN PROJECT
11-00059-03-PV
STA. 925+72.99

END SECTION
11-00059-03-PV
STA. 949+55.00



LOCATION MAP
NOT TO SCALE

MILBURN SCHOOL ROAD (IV) STA. 925+72.99 TO 949+55.00

(2382.01 FT. = 0.451 MILES)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	4/7/15 DATE
	<i>Ray A. Abraham</i> MAYOR, CITY OF O'FALLON
PASSED	4-29-15 DATE
	<i>[Signature]</i> DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	4-29-15 DATE
	<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS	

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



Mark A. Rujawitz
Mark A. Rujawitz
4/6/2015
Date of Signing
4/30/2015
Date of License Expiration

RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE
4 INDUSTRIAL DRIVE
FREEBURG, ILLINOIS 62243
(618) 539-3178

REGIONAL OFFICE
201 SOUTH LOCUST STREET
CENTRALIA, ILLINOIS 62801
(618) 532-1992

GENERAL NOTES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	2
FEDERAL AID PROJECT			CONTRACT 97593	

- 1.) A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT FOR PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS. TO ACCOMMODATE STAGE CONSTRUCTION INTERVALS. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE BINDER AND FINAL HMA SURFACE. ONLY REMOVAL OF SHORT TERM PAVEMENT MARKING FROM THE FINAL SURFACE SHALL BE PAID FOR AS WORK ZONE PAVEMENT MARKING REMOVAL.
- 2.) THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- 3.) "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS.
- 4.) ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 2 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 5.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6.) AN ESTIMATED 1,015 TONS OF HMA SURFACE WILL BE REMOVED DURING PAVEMENT REMOVAL FOR THIS PROJECT.
- 7.) PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURBS AFTER NOVEMBER 1 AND PRIOR TO APRIL 15.
- 8.) THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 9.) AN ESTIMATED QUANTITY OF 100 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND LOCAL TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.
- 10.) FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:

PAVING	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LBS/SQ FT (HMA, PCC)
	0.25 LBS/SQ FT (AGG)
	0.025 LBS/SQ FT (FOG COAT-HMA)
AGGREGATE BASE COURSE	0.0555 TONS/SQ. YD./INCH
SEEDING	
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
MULCH	2 TONS/ACRE
LIME MODIFIED SOILS	
SOIL	1.4445 TONS/CU. YD.
LIME (4% OF SOIL)	0.01926 TONS/SQ. YD./12 IN.
WATER	15 GAL./SQ. YD./12 IN.

- 11.) WHEN CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS, ARE MADE FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, TRANSITIONS WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
- 12.) THE REMOVAL OF ANY CURB/CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB/CURB AND GUTTER AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL RENUMERATION BUT THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- 13.) WHERE PROPOSED CONCRETE PAVEMENT OR PCC CURB AND GUTTER IS TO BE CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT OR PCC CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND GROUT NO. 6 X 30 EPOXY COATED TIE BARS AT 30" CENTERS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PCC PAVEMENT 8" OR COMBINATION CONCRETE CURB AND GUTTER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 14.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 15.) TEMPORARY CONSTRUCTION EASEMENTS, WHICH PROVIDE FOR WORK THAT IS TO BE DONE, ARE DEPICTED ON THE PLANS AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT WHICH IS NECESSARY TO ADJUST THE PROPERTY TO THAT REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR SHALL NOT USE THE EASEMENT AREAS FOR STORAGE OF MATERIAL OR EQUIPMENT.
- 16.) HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC ENTRANCES AND CURB IN FRONT OF ENTRANCES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PCC DRIVEWAY PAVEMENT OF THICKNESS SPECIFIED AND CONCRETE CURB AND GUTTER OF TYPE SPECIFIED.
- 17.) WHEN THE PLAN OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE CITY OF O'FALLON AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER.
- 18.) A NOMINAL QUANTITY OF 100 CU. YD. HAS BEEN INCLUDED IN THE PLANS FOR REMOVAL OF UNSUITABLE MATERIAL. THE ENGINEER SHALL BE THE SOLE JUDGE FOR DETERMINATION OF SAID AREAS.

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	606001-06	720001-01
542301-03	701006-05	720006-04
602401-03	701306-03	720011-01
602601-03	701311-03	729001-01
602701-02	701502-06	780001-05
604001-04	701901-04	BLR 21-9
604036-03		

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER	CONTACT NAME
ELECTRIC	AMEREN IP	618-236-4309	JASON KLEIN
GAS	AMEREN IP	618-236-4309	JASON KLEIN
WATER	CITY OF O'FALLON	618-624-4500	HEIDE BELL
WATER	VILLAGE OF CASEYVILLE	618-344-1234	GERALD SCOTT
TELEPHONE	AT&T	618-628-2957	DEAN LITZENBURG
CABLE	CHARTER COMMUNICATIONS	636-387-6633	SARA BISHOP
SANITARY SEWER	CASEYVILLE TOWNSHIP	618-632-2414	JOSEPH HOGG
FIBER OPTIC	QWEST COMMUNICATIONS	303-837-3926	GEORGE McELVAIN
FIBER OPTIC	MCLEOD USA	217-876-7194	MARK MILLS

COMMITMENTS

NONE AT THIS TIME.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	1386
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20800150	TRENCH BACKFILL	CU YD	915
21400100	GRADING AND SHAPING DITCHES	FOOT	160
25000200	SEEDING, CLASS 2	ACRE	0.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72
25100115	MULCH, METHOD 2	ACRE	0.8
25100630	EROSION CONTROL BLANKET	SQ YD	72
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80
28000305	TEMPORARY DITCH CHECKS	FOOT	20
28000400	PERIMETER EROSION BARRIER	FOOT	400
28000500	INLET AND PIPE PROTECTION	EACH	19
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	9
28200200	FILTER FABRIC	SQ YD	9
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	11953
30201500	LIME	TON	230
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	77
35101400	AGGREGATE BASE COURSE, TYPE B	TON	20
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	5
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9052
40600895	CONSTRUCTING TEST STRIP	EACH	1
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	3379
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1126
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	8
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	77
42001200	PAVEMENT FABRIC	SQ YD	77
42001300	PROTECTIVE COAT	SQ YD	1316
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	31

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
44000100	PAVEMENT REMOVAL	SQ YD	6075
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	147
50105220	PIPE CULVERT REMOVAL	FOOT	195
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	1
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	50
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	1066
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	464
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	190
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	650
550A2400	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 36"	FOOT	6
550A2410	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 42"	FOOT	14
550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 36"	FOOT	43
550B0050	STORM SEWERS, CLASS B, TYPE 1, 12"	FOOT	22
550B0120	STORM SEWERS, CLASS B, TYPE 1, 24"	FOOT	37
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4737
67100100	MOBILIZATION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	400
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	280.8
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5009
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2016
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	133
72000100	SIGN PANEL-TYPE 1	SQ FT	50
72900100	METAL POST-TYPE A	FOOT	98
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	280.8
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5009
X6024242	INLETS, SPECIAL, NO. 1	EACH	26
X6024244	INLETS, SPECIAL, NO. 2	EACH	3
X6024246	INLETS, SPECIAL, NO. 3	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* SPECIALTY ITEM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	3
FEDERAL AID PROJECT			CONTRACT 97593	

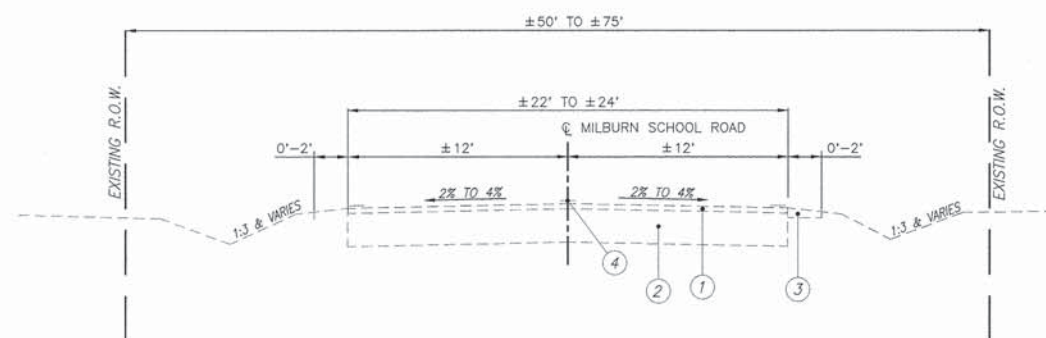
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	4
FEDERAL AID PROJECT			CONTRACT 97593	

LEGEND

- ① EXISTING HOT-MIX ASPHALT RESURFACING, ±3"
- ② EXISTING OIL & CHIP PAVEMENT, 12"+
- ③ EXISTING AGGREGATE WEDGE
- ④ EXISTING PAVEMENT MARKINGS
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- ⑥ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"
- ⑦ LIME MODIFIED SOIL, 12"
- ⑧ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑨ THERMOPLASTIC PAVEMENT MARKING
- ⑩ BITUMINOUS MATERIALS (PRIME COAT)

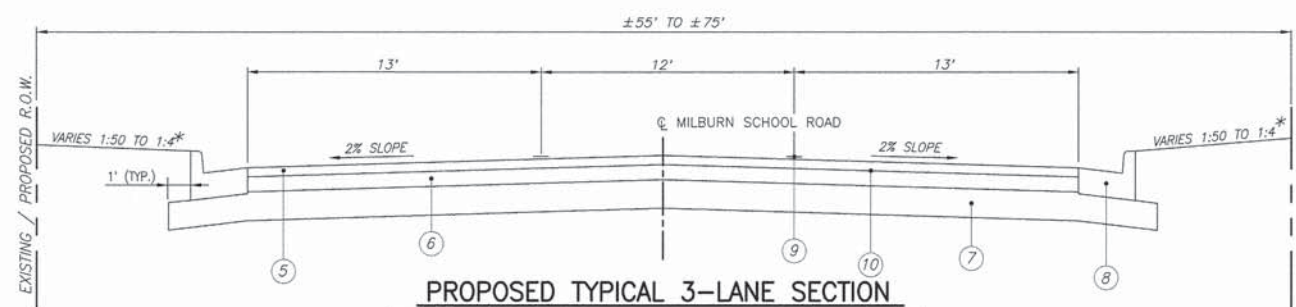
PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2025
 PV= 6.517 SU= 100 MU= 33
 ROAD/STREET CLASSIFICATION: URBAN COLLECTOR CLASS ROAD: II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P= 50 S= 50 M= 50
 TRAFFIC FACTOR: Actual TF= 0.25 Minimum TF= N/A
 PG GRADE: Binder= 64-22 Surface= 64-22
 THICKNESS - 6¾" (Use 8" to match adjacent section)
 SUBGRADE SUPPORT RATING: POOR



EXISTING TYPICAL SECTION

N.T.S.
 MILBURN SCHOOL ROAD
 STA. 925+72.99 TO STA. 949+55



PROPOSED TYPICAL 3-LANE SECTION

N.T.S.
 MILBURN SCHOOL ROAD
 STA. 925+72.99 TO STA. 949+55.00
 * - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

NOTE: AN APPLICATION OF BITUMINOUS MATERIALS (PRIME COAT) SHALL BE APPLIED BETWEEN LIFTS OF HMA BINDER COURSE

ENTRANCE / SIDEROAD SCHEDULE

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	5
FEDERAL AID PROJECT			CONTRACT 97593	

STATION	EXISTING SURFACE	TYPE	"L"	"W"	DRIVEWAY PVM'T	INCIDENTAL HOT-MIX	AGG. BASE	PCC DRIVEWAY	AGG. SURFACE	PCC PAVEMENT	PAVEMENT	SUBBASE GRANULAR	COMMENTS			
			FOOT	FOOT	REMOVAL	ASPHALT SURFACING	COURSE, TY B, 8"	PAVEMENT, 6"	COURSE, TY B, 6"	(JOINTED), 8"	FABRIC	MATERIAL, TYPE B 4"		SQ. YD.	TON	TON
SECTION NO. 11-00059-03-PV																
936+24.65 RT.	CONCRETE	S.R.	15.1	32.2	108.8					76.9	76.9	76.9	SAVANNAH HILLS BLVD.			
942+10.28 LT.	TURF	F.E.	6.0	18.0				16.0								
943+41.58 RT.	AGGREGATE/HMA	P.E.	13.7	17.0	25.8			15.3	4.6							
950+26.40 LT.	OIL & CHIP/HMA	P.E.	18.4	14.7	12.7	3.4	9.1									
951+15.82 LT.	OIL & CHIP	P.E.	16.0	12.0		4.1	10.9									
TOTAL					147.3	7.5	20.0	31.3	4.6	76.9	76.9	76.9				

NOTE: PLEASE REFER TO ENTRANCE DETAILS ON SHEET 27 TO SEE APPLICATION OF THE DIMENSIONS.

PAVEMENT REMOVAL

LOCATION	PAVEMENT REMOVAL
	SQ. YD.
SECTION NO. 11-00059-03-PV	
STA. 925+73 TO 949+69, C	6,075
TOTAL	6,075

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	MULCH METHOD 2	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING
			NITROGEN	PHOSPHORUS	POTASSIUM	
	ACRE	ACRE	POUND	POUND	POUND	POUND
SECTION NO. 11-00059-03-PV						
STA. 925+72.66 TO 949+55.00	0.8	0.8	72	72	72	80
TOTAL	0.8	0.8	72	72	72	80

TEMPORARY DITCH CHECKS

LOCATION	TEMPORARY DITCH CHECKS
	FOOT
SECTION NO. 11-00059-03-PV	
STA. 938+00, 30' RT.	10
STA. 939+50, 32' RT.	10
TOTAL	20

CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B6.24
	FOOT
SECTION NO. 11-00059-03-PV	
STA. 925+73 TO 949+55 LT	2,382
STA. 925+73 TO 936+06 RT	1,038
STA. 936+43 TO 949+55 RT	1,317
TOTAL	4,737

EROSION CONTROL BLANKET

LOCATION	EROSION CONTROL BLANKET
	SQ. FT
SECTION NO. 11-00059-03-PV	
STA. 949+00 TO 949+69	72
TOTAL	72

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS				PAVEMENT MARKING TAPE, TYPE III		
	SOLID YELLOW 4" LANE LINE	YELLOW SKIP DASH 4" LANE LINE	SOLID WHITE TURN ARROW	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	SOLID WHITE 4" LANE LINE	SOLID DOUBLE YELLOW, 4" LANE LINE
	FOOT	FOOT	SQ. FT.	FOOT	SQ. FT.	FOOT	FOOT
SECTION NO. 11-00059-03-PV							
STA. 925+73 TO 927+53 LT./RT.						180	693
STA. 927+53 TO 946+85 LT./RT.	3,864	960	249.6	400	133		
STA. 946+85 TO 948+30 RT.	145	40					
STA. 946+85 TO 949+55 LT.						270	519
STA. 946+30 TO 949+55 RT.						125	229
TOTAL	4,009	1,000	280.8	400	133	575	1,441

PERIMETER EROSION BARRIER SCHEDULE

LOCATION	PERIMETER EROSION BARRIER
	FOOT
SECTION NO. 11-00059-03-PV	
STA. 928+00 TO 930+00, RT.	200
STA. 930+75 TO 931+75, LT.	100
STA. 948+75 TO 949+75, RT.	100
TOTAL	400

NOTE: SEE EROSION CONTROL PLAN FOR PLACEMENT OF PERIMETER EROSION BARRIER

RIP RAP SCHEDULE

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)			DEPTH (FOOT)	STONE DUMPED RIPRAP CLASS A4 (SQ. YD.)	FILTER FABRIC (SQ. YD.)
		A	B	C			
SECTION NO. 11-00059-03-PV							
STA. 952+00, LT.	5	6	6	6	3	9.0	9.0
TOTAL						9.0	9.0

NOTE: PLEASE REFER TO DETAILS ON SHEET 30 TO SEE APPLICATION OF THE DIMENSIONS.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	6
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PAVING SCHEDULE

LOCATION	PROCESSING MODIFIED SOIL, 12"	LIME	HMA BINDER CRSE. IL-19.0, N70, 6"	BIT. MATERIALS (PRIME COAT)	HMA SURFACE CRSE., MIX "D", N70, 2"
	SQ YD	TON	TON	POUND	TON
SECTION NO. 11-00059-03-PV					
STA. 925+72.99 TO 949+69.00	11,953	230	3,379	9,052	1,126
TOTAL	11,953	230	3,379	9,052	1,126

PROTECTIVE COAT SCHEDULE

LOCATION	PROTECTIVE COAT AREA SQ YD
SECTION NO. 11-00059-03-PV	
COMBINATION CURB AND GUTTER, B-6.24	1,316
TOTAL	1,316

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD
STA. 925+72.99 TO STA. 949+55.00	1386	1040	985	+55	-----
TOTAL	1386				-----

NOTE: REMOVAL OF EXISTING OIL AND CHIP HAS BEEN INCLUDED IN THE QUANTITY OF EARTH EXCAVATION

DRAINAGE REMOVAL SCHEDULE

LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL	TRENCH BACKFILL
		FOOT	CU YD
SECTION 11-00059-03-PV			
STA. 928+98, C	36" CMP	40	25
STA. 936+00, RT.	18" CMP	10	
STA. 936+71, RT.	24" CMP	21	
STA. 936+94, C	24" CMP	37	
STA. 943+42, RT.	12" CMP	36	3
STA. 950+27, LT.	12" CMP	26	
STA. 951+17, LT.	15" CMP	25	
TOTAL		195	28

INLET AND PIPE PROTECTION SCHEDULE

LOCATION	INLET AND PIPE PROTECTION EACH
SECTION NO. 11-00059-03-PV	
STA. 925+32, 22' LT.	1
STA. 925+82, 23' RT.	1
STA. 928+87, 36' LT.	1
STA. 928+87, 25' LT.	1
STA. 928+87, 25' RT.	1
STA. 930+62, 23' LT.	1
STA. 930+62, 23' RT.	1
STA. 936+00, 41' RT.	1
STA. 936+90, 37' LT.	1
STA. 936+95, 24' LT.	1
STA. 936+95, 24' RT.	1
STA. 936+95, 32' RT.	1
STA. 943+21, 23' RT.	1
STA. 945+39, 23' LT.	1
STA. 949+50, 23' LT.	1
STA. 949+50, 12' LT.	1
STA. 949+50, 23' RT.	1
STA. 950+20, 12' LT.	1
STA. 951+05, 12' LT.	1
TOTAL	19

SIGN SCHEDULE

LOCATION	LT/RT	PROPOSED OFFSET (FOOT)	SIGN PANEL - METAL POST		DESCRIPTION
			TYPE 1 (SQ. FT.)	TYPE A (FOOT)	
SECTION NO. 11-00059-03-PV					
STA. 926+00	RT.	29.0	5.0	14	R2-1 (24X30) (45MPH)
STA. 927+50	RT.	29.0	6.0	14	R3-9B (24X36)
STA. 930+25	LT.	29.0	9.0	14	W4-2R-36 (36X36)
STA. 941+00	RT.	29.0	6.0	14	R3-9B (24X36)
STA. 946+50	LT.	29.0	6.0	14	R3-9B (24X36)
STA. 946+55	RT.	29.0	9.0	14	W1-4L-36 (36X36)
STA. 951+40	LT.	13.0	9.0	14	WR-2L-36 (36X36) (UPSIDE DOWN)
TOTAL			50.0	98	

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	7
FEDERAL AID PROJECT			CONTRACT 97593	

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM	INVERTS
SECTION NO. 11-00059-03-PV				
23.	925+32.23 22.33'L	END OF PIPE NO. 22		566.43 W
24.	925+81.50 23.00'R	INLETS, SPECIAL, NO. 1	570.61	569.11 S** 566.36 N
25.	925+81.50 23.00'L	INLETS, SPECIAL, NO. 1	570.60	565.90 S 565.85 E 565.95 W
26.	928+00.00 23.00'R	INLETS, SPECIAL, NO. 1	569.26	565.36 N
27.	928+00.00 23.00'L	INLETS, SPECIAL, NO. 1	569.26	564.90 S 564.85 W 564.80 E
28.	928+87.16 35.53'L	INLETS, SPECIAL, NO. 2	568.40	564.40 S 567.15 W** 567.15 E**
29.	928+87.16 24.50'L	INLETS, SPECIAL, NO. 3	568.90	564.36 N 564.36 S 564.36 W
30.	928+87.16 24.50'R	INLETS, SPECIAL, NO. 3	568.90	564.22 N 564.22 SE 564.22 E
31.	929+00.65 40.52'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"		564.15 NW
32.	929+50.00 23.00'R	INLETS, SPECIAL, NO. 1	569.12	565.05 E 564.85 W 564.95 N
33.	929+50.00 23.00'L	INLETS, SPECIAL, NO. 1	569.12	565.41 S
34.	930+62.07 23.00'R	INLETS, SPECIAL, NO. 1	570.09	566.37 N 566.17 W
35.	930+62.07 23.00'L	INLETS, SPECIAL, NO. 1	570.09	566.83 S
36.	934+65.92 23.00'R	INLETS, SPECIAL, NO. 1	569.72	566.48 N
37.	934+65.92 23.00'L	INLETS, SPECIAL, NO. 1	569.72	566.02 S 565.82 E
38.	935+82.04 23.00'R	INLETS, SPECIAL, NO. 1	568.76	565.72 SE
39.	935+82.04 23.00'L	INLETS, SPECIAL, NO. 1	568.76	564.94 W 564.94 E
40.	936+00.59 40.65'R	INLETS, SPECIAL, NO. 1	567.61	565.24 NW 565.04 E 566.50 W**
41.	936+94.98 32.00'R	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE *	566.34	563.43 N 563.33 SW
42.	936+90.30 37.39'L	INLETS, SPECIAL, NO. 1	567.27	566.35 N**
43.	936+94.94 23.50'L	INLETS, SPECIAL, NO. 2	568.11	564.10 W 563.90 S 564.10 E 563.90 N

(1) - AT FACE OF CURB (INCLUDES LID)
 (*) - DENOTES FLAT SLAB TOP
 (**) - DENOTES OPEN THROAT ELEVATION

NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.
 PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 30 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM	INVERTS
SECTION NO. 11-00059-03-PV (CONTINUED)				
44.	936+94.94 23.50'R	INLETS, SPECIAL, NO. 2	568.11	563.67 N 563.52 S
46.	938+00.00 23.00'L	INLETS, SPECIAL, NO. 1	568.70	564.94 E 564.94 W 564.94 S
47.	938+00.00 23.00'R	INLETS, SPECIAL, NO. 1	568.70	565.40 N
48.	939+50.00 23.00'L	INLETS, SPECIAL, NO. 1	569.96	566.35 S 566.15 W
49.	939+50.00 23.00'R	INLETS, SPECIAL, NO. 1	569.96	566.81 N
50.	943+20.94 23.00'L	INLETS, SPECIAL, NO. 1	571.16	567.48 S 567.28 E
51.	943+20.94 23.00'R	INLETS, SPECIAL, NO. 1	571.16	567.94 N
52.	945+39.07 23.00'L	INLETS, SPECIAL, NO. 1	567.75	564.00 W 563.90 S 563.80 E
53.	945+39.07 23.00'R	INLETS, SPECIAL, NO. 1	567.75	564.36 N
54.	947+57.07 23.00'R	INLETS, SPECIAL, NO. 1	563.96	560.67 N
55.	947+57.07 23.00'L	INLETS, SPECIAL, NO. 1	563.96	560.31 W 560.21 S 559.11 E
56.	947+50.00 23.00'R	INLETS, SPECIAL, NO. 1	558.91	554.89 N
57.	949+50.00 23.00'L	INLETS, SPECIAL, NO. 1	558.91	554.53 W 554.43 S
58.	949+50.00 12.42'L	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID *	558.65	552.03 E 554.52 S 554.23 N
	951+94.77 12.51'L	END OF PIPE NO. 55		546.71 E

(1) - AT FACE OF CURB (INCLUDES LID)
 (*) - DENOTES FLAT SLAB TOP
 (**) - DENOTES OPEN THROAT ELEVATION

NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.
 PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 30 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	8
FEDERAL AID PROJECT			CONTRACT 97593	

STORM SEWER SCHEDULE									
PIPE NO.	START STRUCTURE	END STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL
SECTION NO. 11-00059-03-PV									
23.	OPEN DITCH	25.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	48'	566.43	566.36	1.03%	18
24.	24.	25.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	566.36	565.90	1.07%	13
25.	25.	27.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	216'	565.85	564.85	0.46%	89
26.	26.	27.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	565.36	564.90	1.07%	12
27.	27.	29.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	83'	564.80	564.36	0.50%	34
28.	28.	29.	Storm Sewers, Rubber Gasket, Class A, Type 1	36"	6'	564.40	564.36	0.33%	0
29.	29.	30.	Storm Sewers, Class A, Equivalent Round-Size	36"	43'	564.36	564.22	0.30%	17
30.	30.	31.	Storm Sewers, Rubber Gasket, Class A, Type 1	42"	14'	564.22	564.15	0.33%	0
31.	32.	30.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	58'	564.85	564.22	1.00%	20
32.	33.	32.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	565.41	564.95	1.07%	11
33.	34.	32.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	109'	566.17	565.05	1.03%	33
34.	35.	34.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	566.83	566.37	1.07%	9
35.	36.	37.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	566.48	566.02	1.07%	9
36.	37.	39.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	113'	565.82	564.94	0.77%	41
37.	38.	40.	Storm Sewers, Rubber Gasket, Class B, Type 1	12"	22'	565.72	565.44	1.00%	0
38.	39.	43.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	110'	564.94	564.10	0.75%	36
39.	42.	43.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	11'	563.98	563.90	0.52%	0
40.	43.	44.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	43'	563.90	563.67	0.49%	14
41.	44.	41.	Storm Sewers, Rubber Gasket, Class B, Type 1	24"	4'	563.67	563.59	1.00%	0
42.	41.	EXISTING INLET	Storm Sewers, Rubber Gasket, Class B, Type 1	24"	33'	563.39	562.97	1.17%	0
43.	46.	43.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	102'	564.94	564.10	0.80%	31
44.	47.	46.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	565.40	564.94	1.07%	9
45.	48.	46.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	147'	566.15	564.94	0.82%	53
46.	49.	48.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	566.81	566.35	1.07%	9
47.	51.	50.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	567.94	567.48	1.07%	9
48.	50.	52.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	215'	567.28	564.01	1.52%	82
49.	53.	52.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	564.36	563.90	1.07%	10
50.	52.	55.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	215'	563.80	560.31	1.62%	80
51.	55.	57.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	190'	559.11	554.53	2.41%	143
52.	54.	55.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	560.67	560.21	1.08%	9
53.	57.	58.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	7'	554.43	554.23	3.02%	2
54.	56.	58.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	31'	554.89	554.52	1.15%	7
55.	58.	OPEN DITCH	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	242'	552.03	546.70	2.20%	85

DRAINAGE STRUCTURE SUMMARY						
	INLET SPECIAL, NO. 1 (3'X3')	INLET SPECIAL, NO. 2 (4'X4')	INLET SPECIAL, NO. 3 (6'X6')	MANHOLES, TYPE A-5' DIA. TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A-5' DIA. TYPE B GRATE	PRECAST REINFORCED CONCRETE FLARED END SECTION, 42'
	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
TOTAL	26	3	2	1	1	1

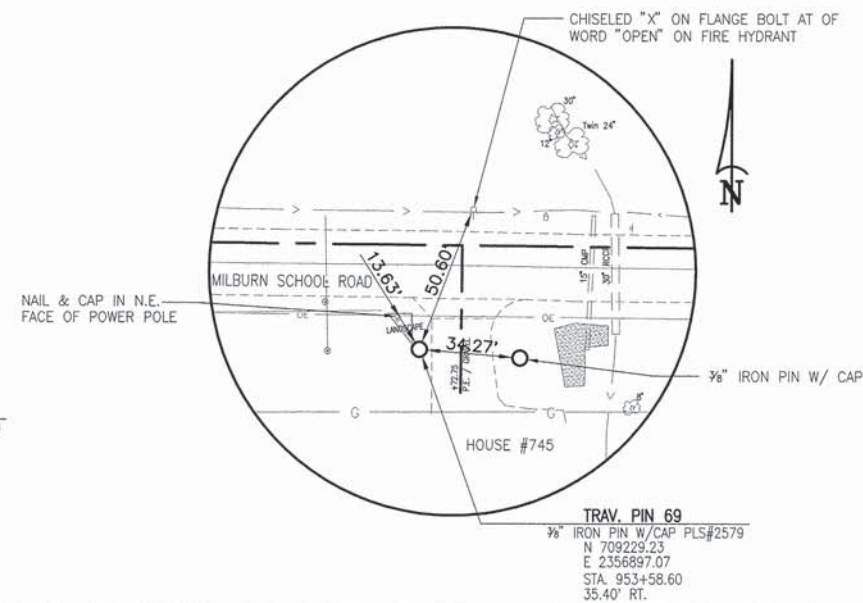
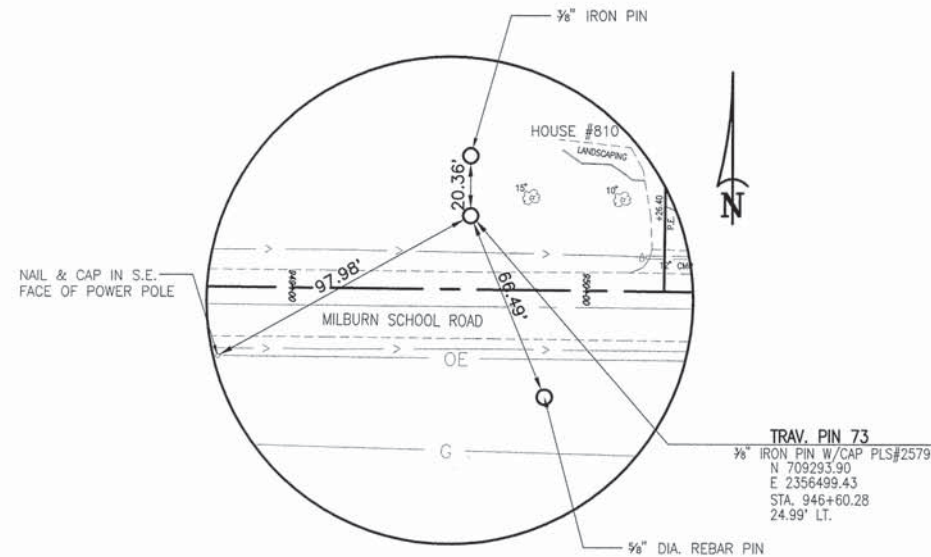
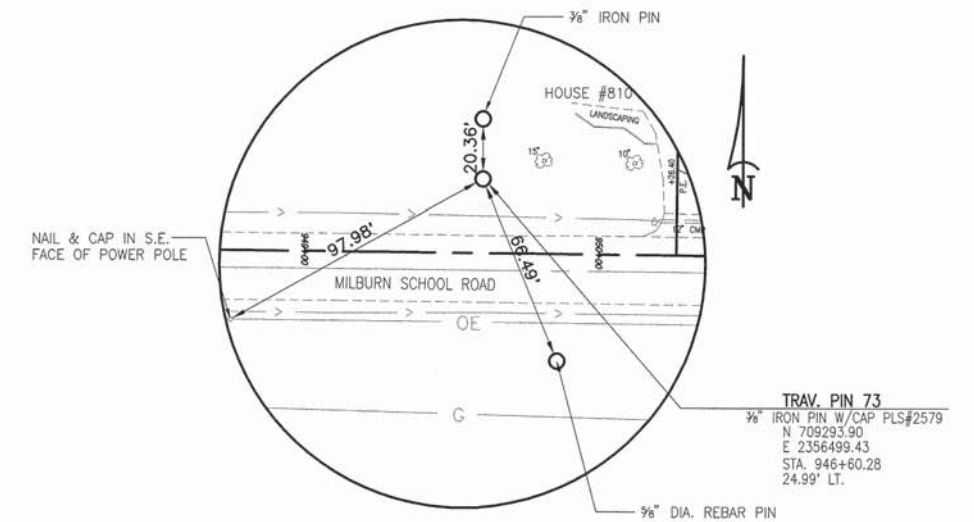
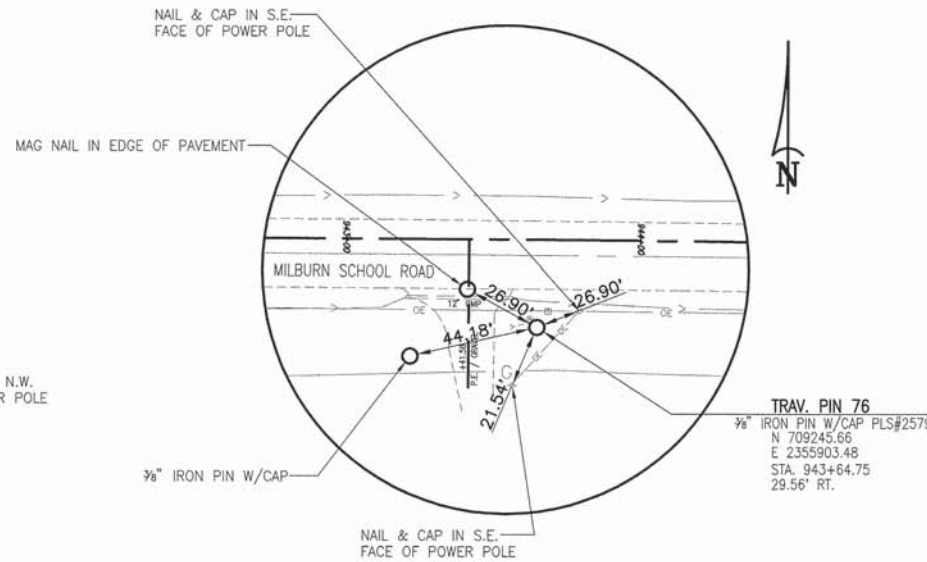
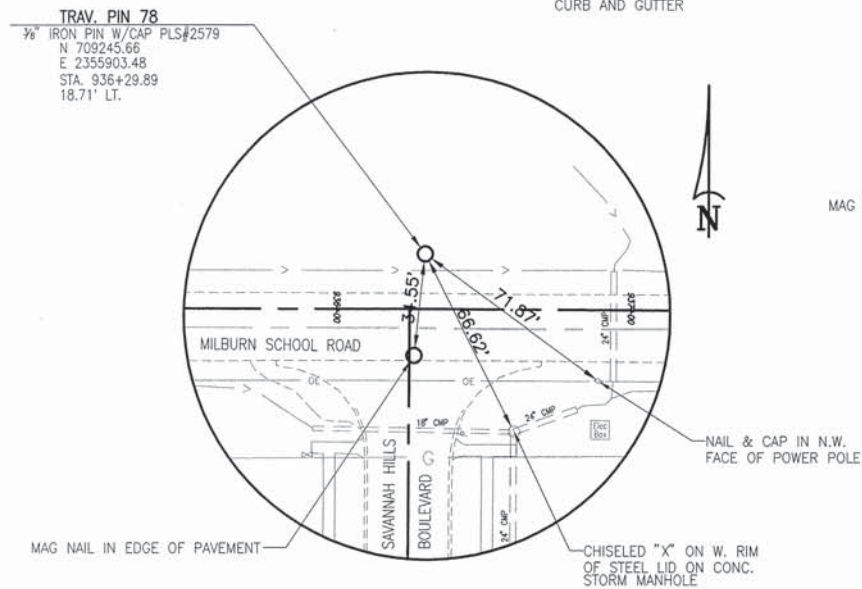
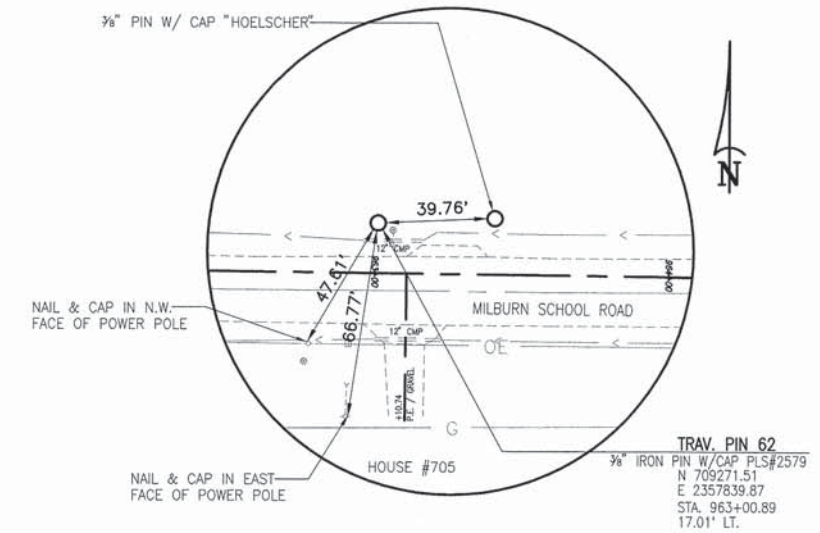
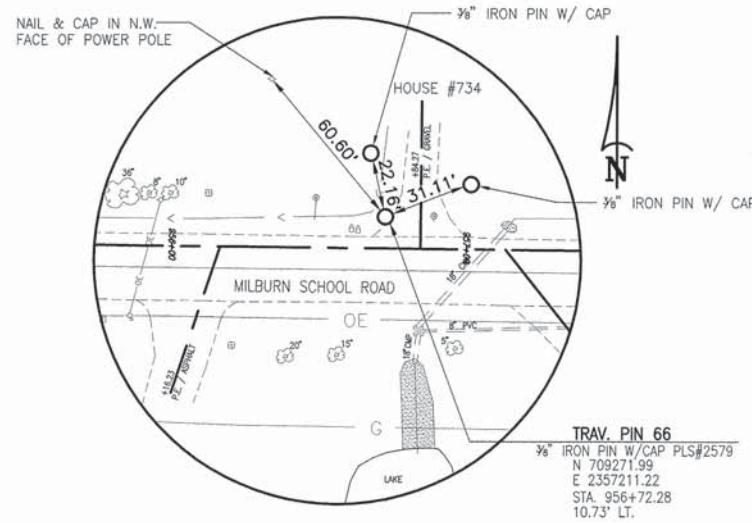
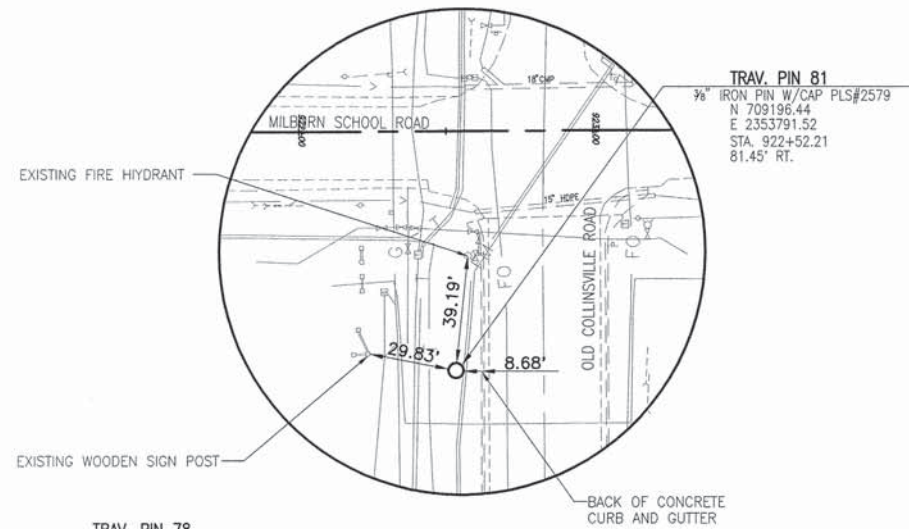
STORM SEWER SUMMARY										
	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 36"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 42"	STORM SEWERS, RUBBER GASKET, CLASS A, EQUIV. ROUND SIZE - 36"	STORM SEWERS, CLASS B, TYPE 1 12"	STORM SEWERS, CLASS B, TYPE 1 24"	TRENCH BACKFILL
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU. YD.
TOTAL	1066	464	190	650	6	14	43	22	37	887

TRENCH BACKFILL SCHEDULE	
LOCATION	TRENCH BACKFILL
	CU YD
SECTION NO. 11-00059-03-PV	
STORM SEWER SCHEDULE	887
DRAINAGE REMOVAL SCHEDULE	28
TOTAL	915

HORIZONTAL CONTROL TIE POINTS

N.T.S.

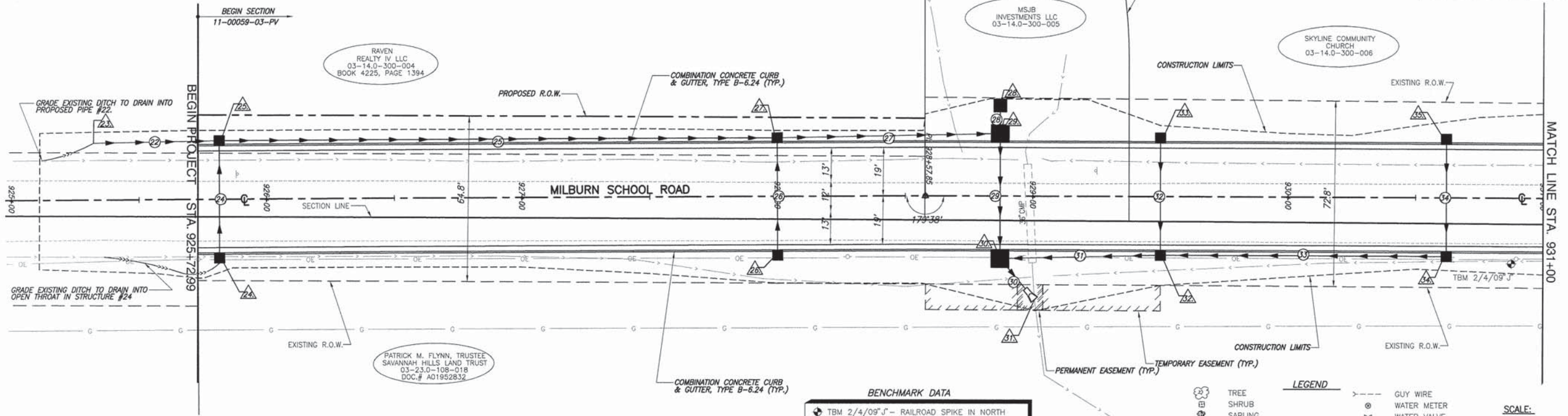
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	9
FEDERAL AID PROJECT		CONTRACT 97593		



COORDINATE TABLE - MSR

STATION / DESCRIPTION	NORTHING	EASTING
© STA. 925+72.99	709279.40	2354111.91
P.I. STA. 928+57.85	709280.79	2354396.77
P.I. STA. 936+18.63	709279.49	2355157.55
P.I. STA. 943+81.69	709275.13	2355920.59
© STA. 949+55.00	709268.94	2356493.87

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	10
FEDERAL AID PROJECT			CONTRACT 97593	



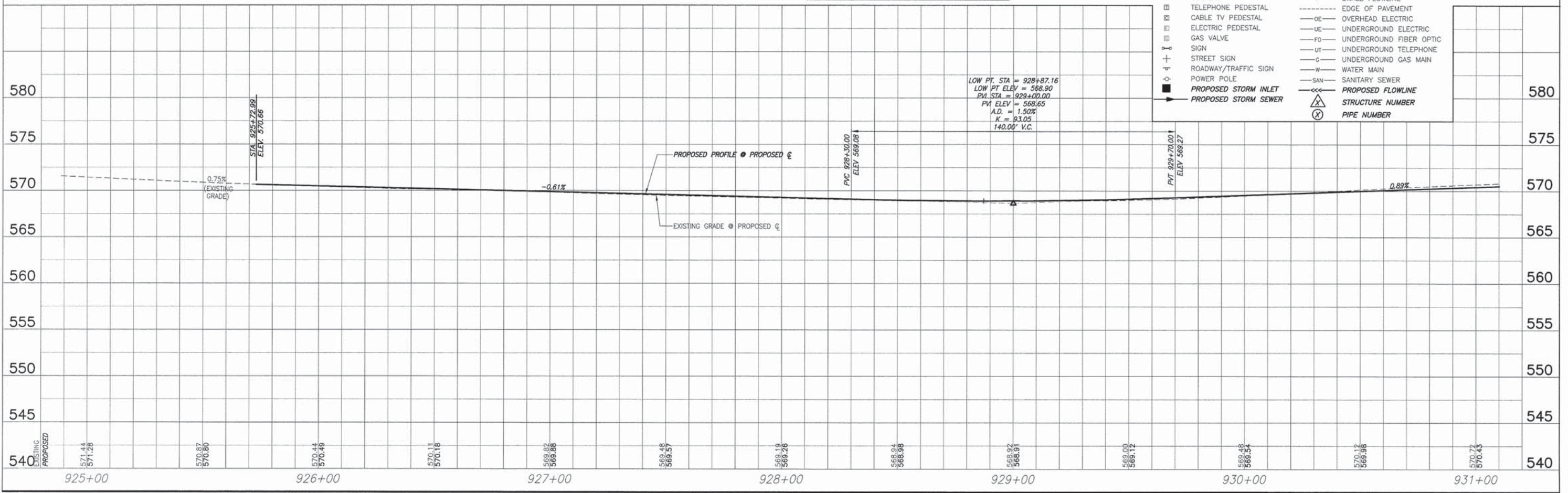
BENCHMARK DATA

TBM 2/4/09" J - RAILROAD SPIKE IN NORTH FACE OF POWER POLE ON SOUTH SIDE OF MILBURN SCHOOL ROAD; 4th POLE EAST OF OLD COLLINSVILLE ROAD. ELEV. 570.67

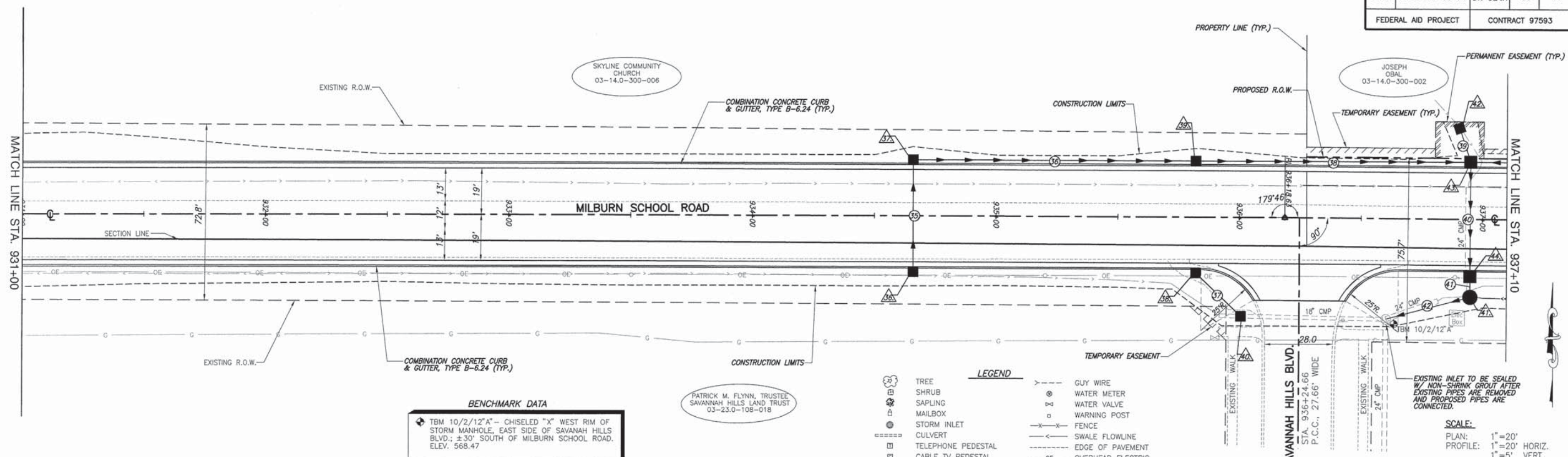
LEGEND

	TREE		GUY WIRE
	SHRUB		WATER METER
	SAPLING		WATER VALVE
	MAILBOX		WARNING POST
	STORM INLET		FENCE
	CULVERT		SWALE FLOWLINE
	TELEPHONE PEDESTAL		EDGE OF PAVEMENT
	CABLE TV PEDESTAL		OVERHEAD ELECTRIC
	ELECTRIC PEDESTAL		UNDERGROUND ELECTRIC
	GAS VALVE		UNDERGROUND FIBER OPTIC
	SIGN		UNDERGROUND TELEPHONE
	STREET SIGN		UNDERGROUND GAS MAIN
	ROADWAY/TRAFFIC SIGN		WATER MAIN
	POWER POLE		SANITARY SEWER
	PROPOSED STORM INLET		PROPOSED FLOWLINE
	PROPOSED STORM SEWER		STRUCTURE NUMBER
			PIPE NUMBER

SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	11
FEDERAL AID PROJECT			CONTRACT 97593	



BENCHMARK DATA

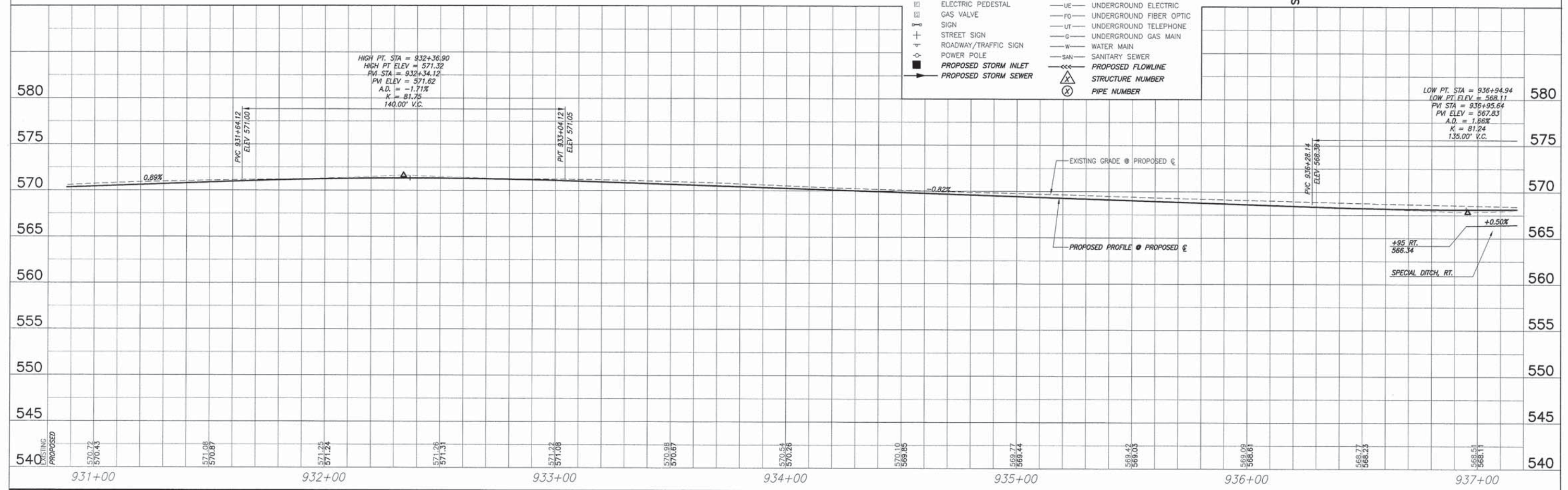
TBM 10/2/12" A - CHISELED "X" WEST RIM OF STORM MANHOLE, EAST SIDE OF SAVANNAH HILLS BLVD.; ±30' SOUTH OF MILBURN SCHOOL ROAD. ELEV. 568.47

PATRICK M. FLYNN, TRUSTEE SAVANNAH HILLS LAND TRUST 03-23.0-108-018

LEGEND

<ul style="list-style-type: none"> ☁ TREE 🌳 SHRUB 🌱 SAPLING 📧 MAILBOX ⊙ STORM INLET ⌒ CULVERT ☎ TELEPHONE PEDESTAL ☎ CABLE TV PEDESTAL ☎ ELECTRIC PEDESTAL ⊕ GAS VALVE 🚧 SIGN 🚧 STREET SIGN 🚧 ROADWAY/TRAFFIC SIGN 🔌 POWER POLE ⬛ PROPOSED STORM INLET ➡ PROPOSED STORM SEWER 	<ul style="list-style-type: none"> — GUY WIRE ⊙ WATER METER ⊕ WATER VALVE ⊕ WARNING POST — FENCE — SWALE FLOWLINE — EDGE OF PAVEMENT — OE OVERHEAD ELECTRIC — UE UNDERGROUND ELECTRIC — FO UNDERGROUND FIBER OPTIC — UT UNDERGROUND TELEPHONE — G UNDERGROUND GAS MAIN — W WATER MAIN — SAN SANITARY SEWER — PROPOSED FLOWLINE ⊙ STRUCTURE NUMBER ⊙ PIPE NUMBER
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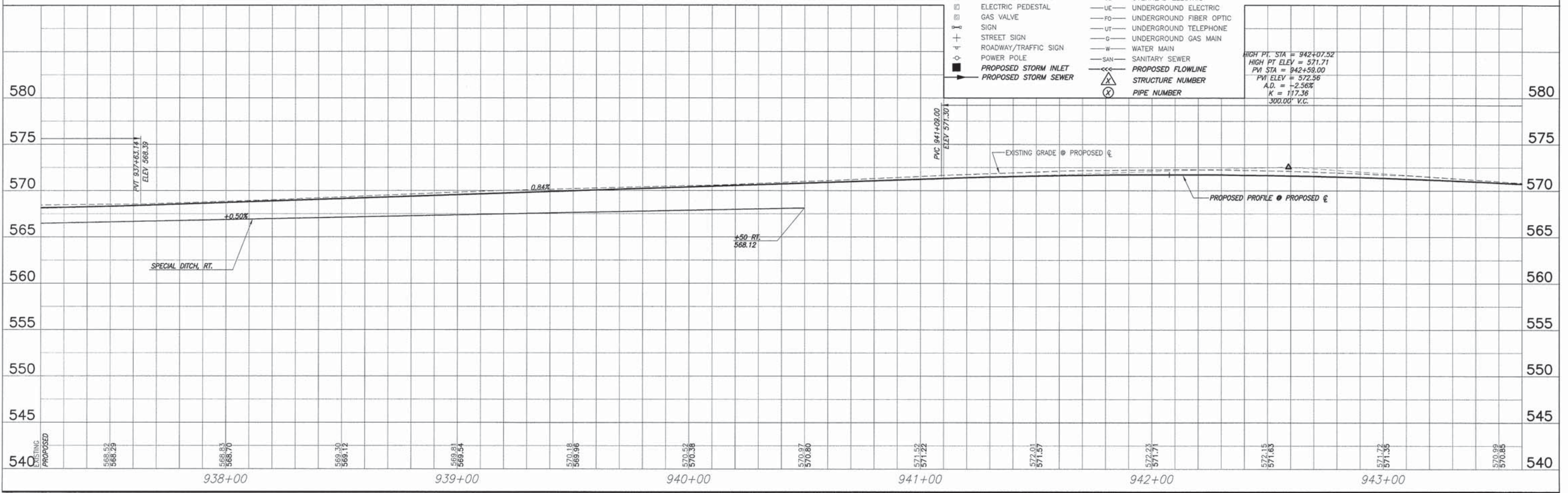
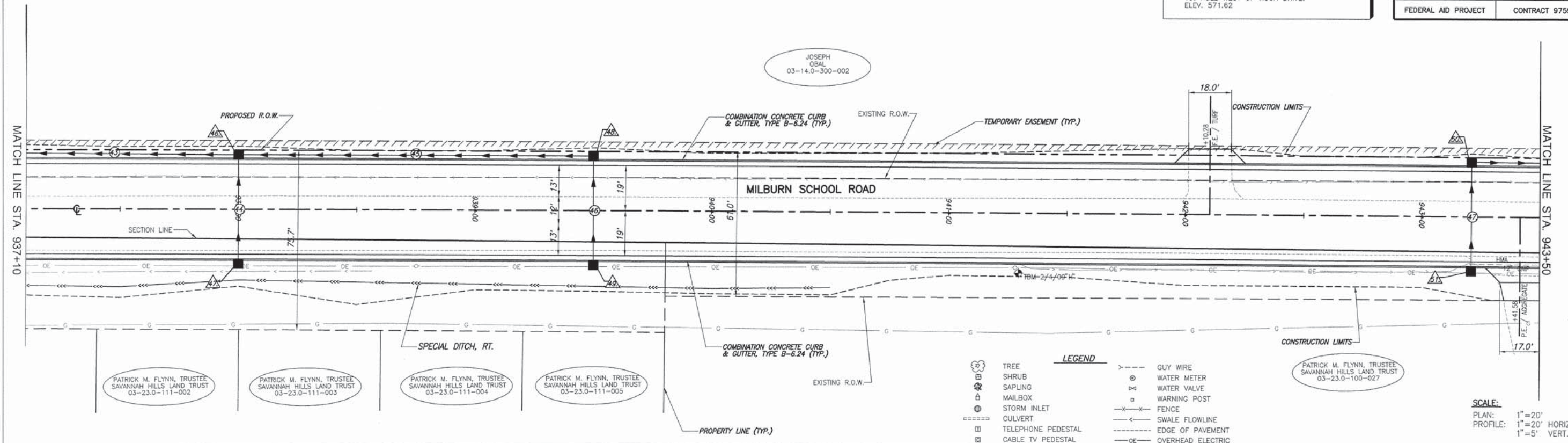
SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

BENCHMARK DATA
 TBM 2/4/09" I" - RAILROAD SPIKE IN NORTH FACE POWER POLE ON SOUTH SIDE OF ROAD; 1st POLE WEST OF ROCK DRIVE. ELEV. 571.62

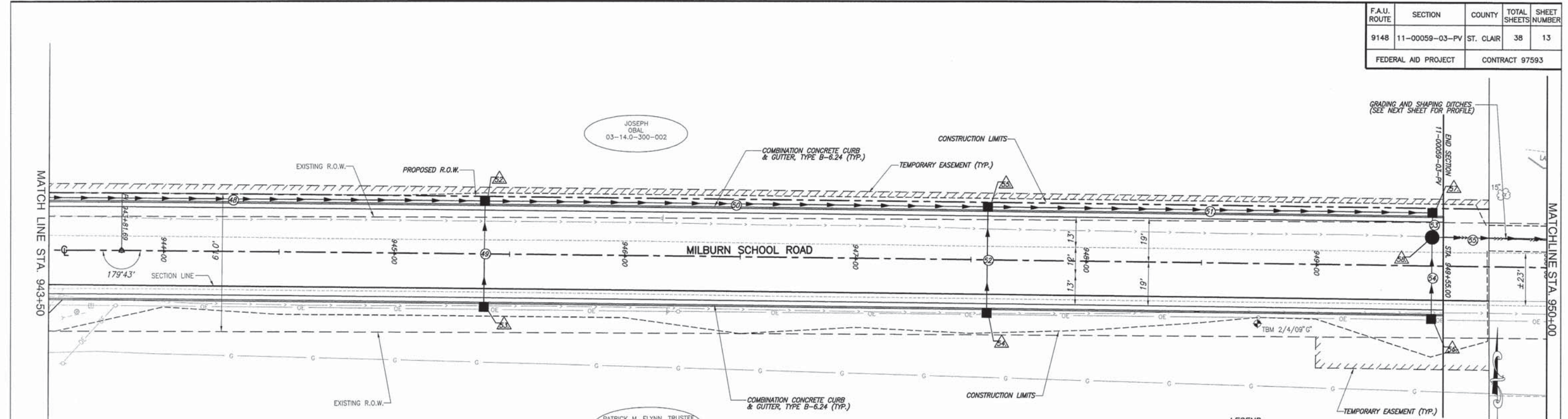
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	12
FEDERAL AID PROJECT			CONTRACT 97593	



- LEGEND**
- TREE
 - SHRUB
 - SAPLING
 - MAILBOX
 - STORM INLET
 - CULVERT
 - TELEPHONE PEDESTAL
 - CABLE TV PEDESTAL
 - ELECTRIC PEDESTAL
 - GAS VALVE
 - SIGN
 - STREET SIGN
 - ROADWAY/TRAFFIC SIGN
 - POWER POLE
 - PROPOSED STORM INLET
 - PROPOSED STORM SEWER
 - GUY WIRE
 - WATER METER
 - WATER VALVE
 - WARNING POST
 - FENCE
 - SWALE FLOWLINE
 - EDGE OF PAVEMENT
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - UNDERGROUND FIBER OPTIC
 - UNDERGROUND TELEPHONE
 - UNDERGROUND GAS MAIN
 - WATER MAIN
 - SANITARY SEWER
 - PROPOSED FLOWLINE
 - STRUCTURE NUMBER
 - PIPE NUMBER

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	13
FEDERAL AID PROJECT			CONTRACT 97593	

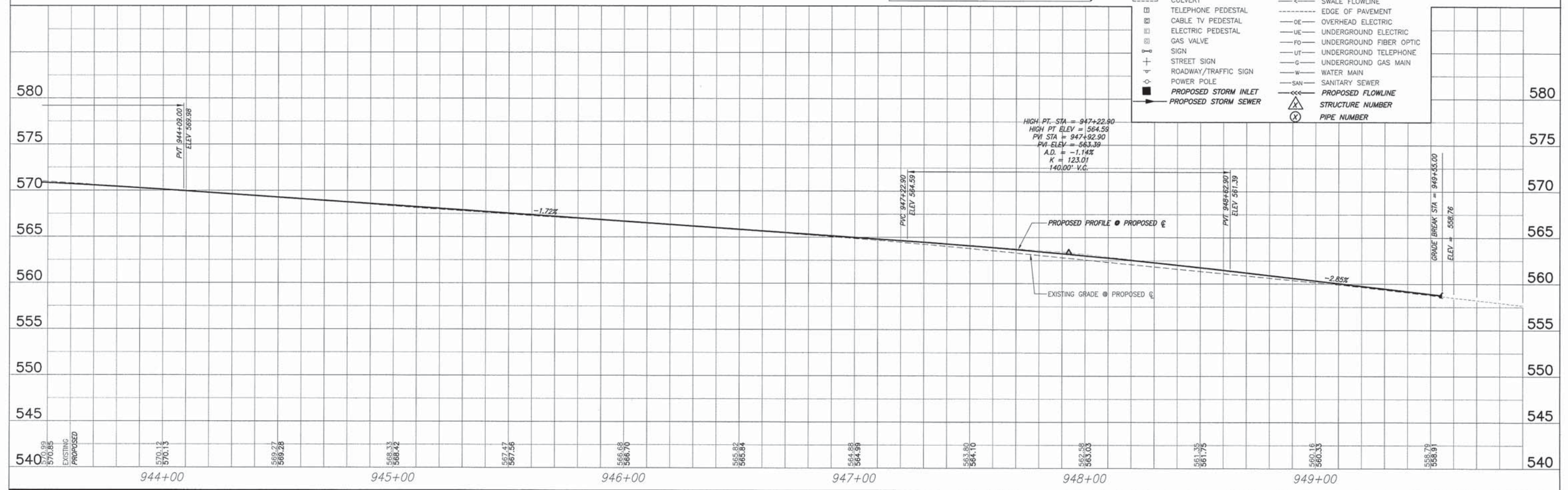


BENCHMARK DATA
 TBM 2/4/09" - RAILROAD SPIKE IN NORTH FACE POWER POLE ON SOUTH SIDE OF ROAD, 2nd POLE WEST OF BOX CULVERT. ELEV. 561.85

LEGEND

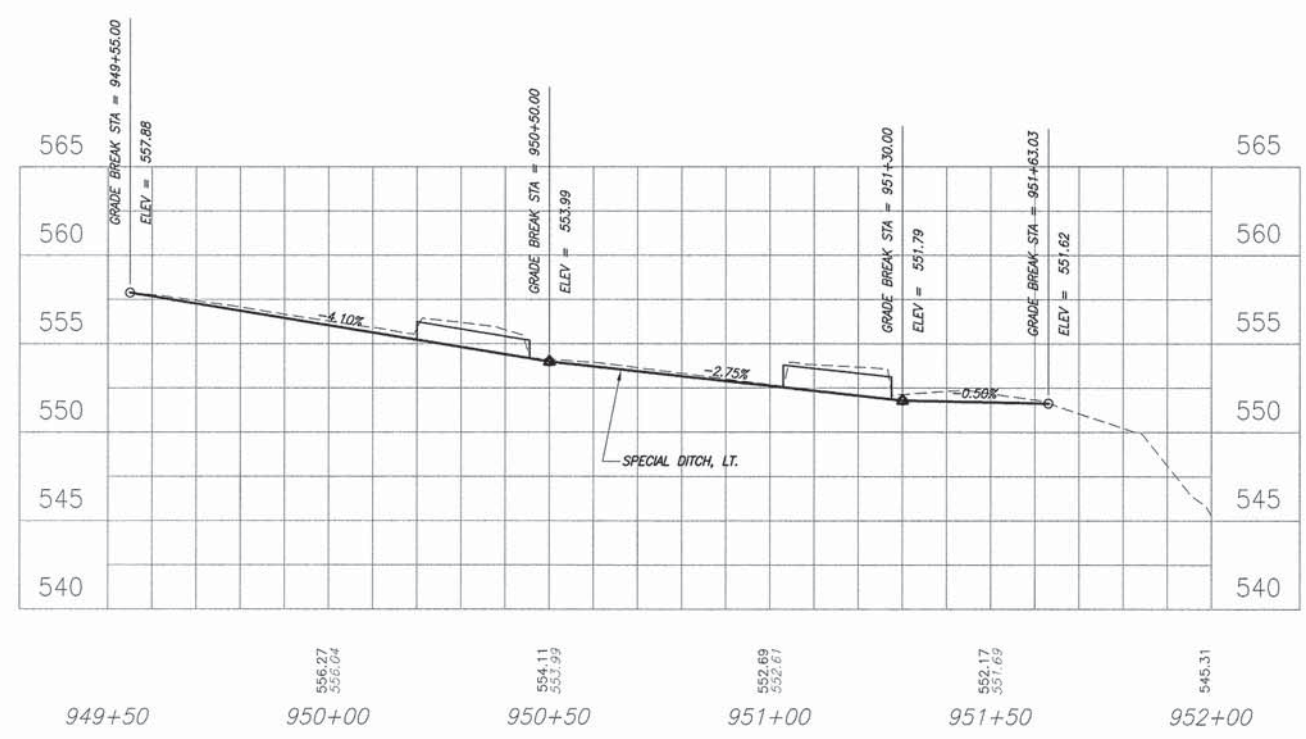
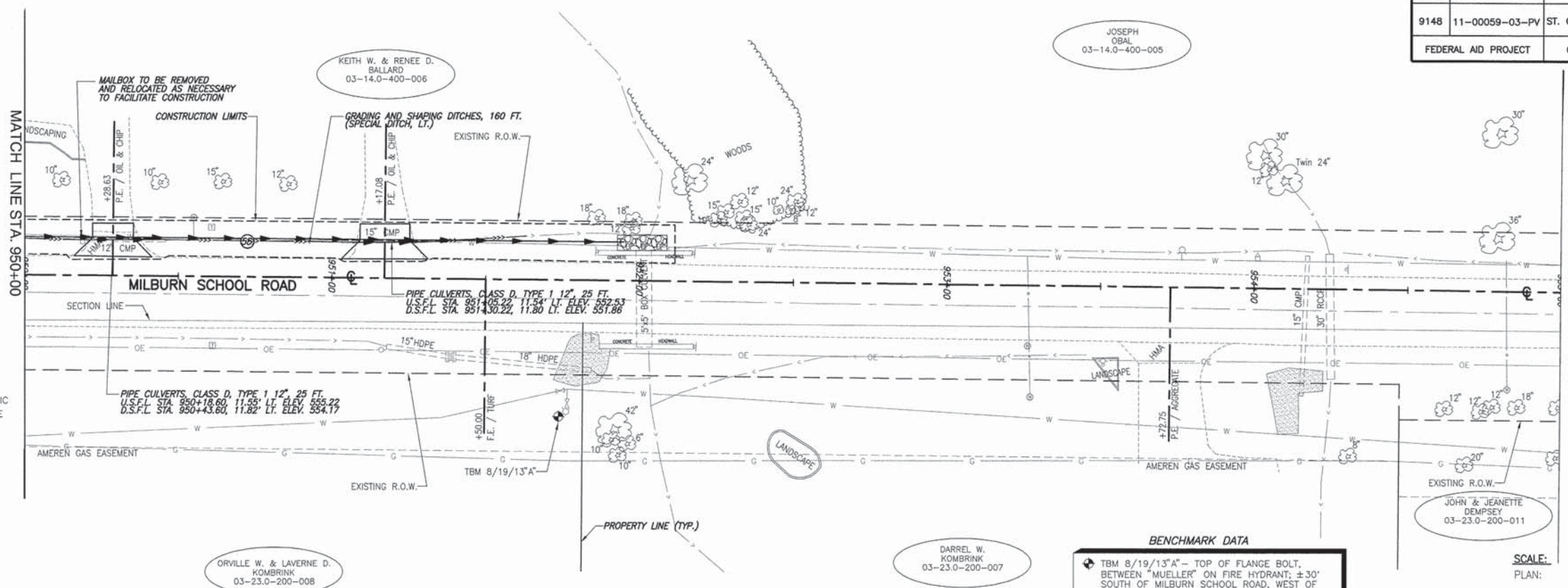
(Tree symbol)	TREE	(Dashed line with 'x')	GUY WIRE
(Shrub symbol)	SHRUB	(Circle with 'x')	WATER METER
(Sapling symbol)	SAPLING	(Square with 'x')	WATER VALVE
(Mailbox symbol)	MAILBOX	(Square with 'x')	WARNING POST
(Storm inlet symbol)	STORM INLET	(X-X)	FENCE
(Culvert symbol)	CULVERT	(Line with arrow)	SWALE FLOWLINE
(Telephone pedestal symbol)	TELEPHONE PEDESTAL	(Line with 'oe')	EDGE OF PAVEMENT
(Cable TV pedestal symbol)	CABLE TV PEDESTAL	(Line with 'ue')	OVERHEAD ELECTRIC
(Electric pedestal symbol)	ELECTRIC PEDESTAL	(Line with 'fo')	UNDERGROUND ELECTRIC
(Gas valve symbol)	GAS VALVE	(Line with 'ut')	UNDERGROUND FIBER OPTIC
(Sign symbol)	SIGN	(Line with 'g')	UNDERGROUND TELEPHONE
(Street sign symbol)	STREET SIGN	(Line with 'w')	UNDERGROUND GAS MAIN
(Roadway/Traffic sign symbol)	ROADWAY/TRAFFIC SIGN	(Line with 'san')	WATER MAIN
(Power pole symbol)	POWER POLE	(Line with 'san')	SANITARY SEWER
(Proposed storm inlet symbol)	PROPOSED STORM INLET	(Line with arrow)	PROPOSED FLOWLINE
(Proposed storm sewer symbol)	PROPOSED STORM SEWER	(Triangle with 'x')	STRUCTURE NUMBER
		(Circle with 'x')	PIPE NUMBER

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

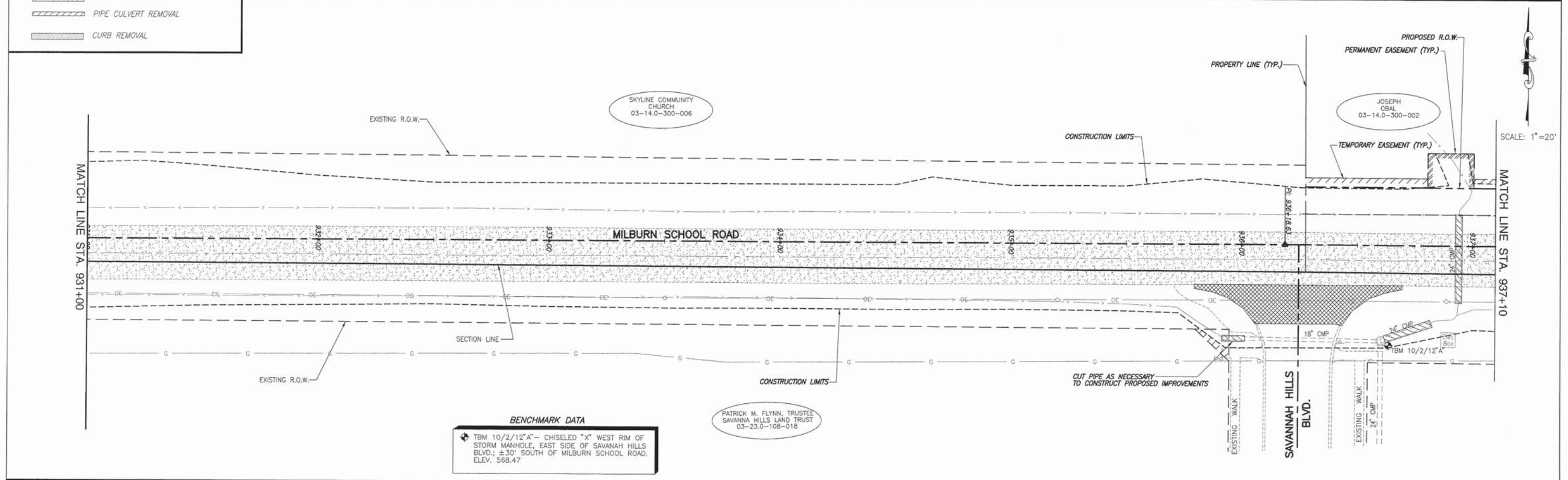
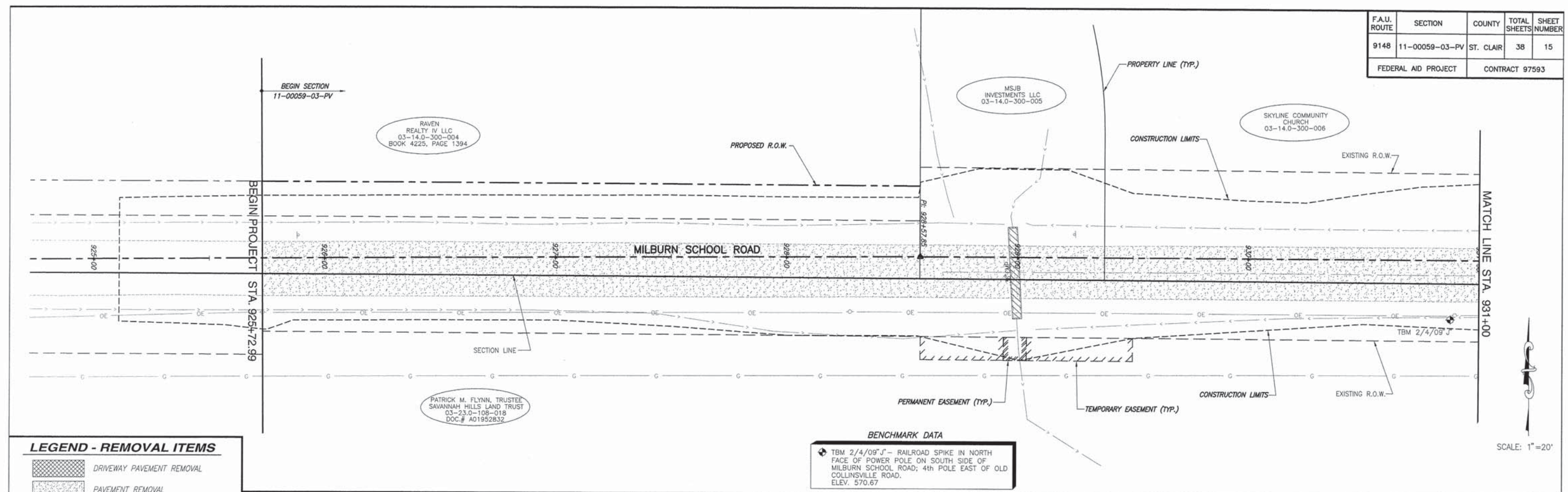


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	14
FEDERAL AID PROJECT			CONTRACT 97593	

- LEGEND**
- TREE
 - SHRUB
 - SAPLING
 - MAILBOX
 - STORM INLET
 - CULVERT
 - TELEPHONE PEDESTAL
 - CABLE TV PEDESTAL
 - ELECTRIC PEDESTAL
 - GAS VALVE
 - SIGN
 - STREET SIGN
 - ROADWAY/TRAFFIC SIGN
 - POWER POLE
 - PROPOSED STORM INLET
 - PROPOSED STORM SEWER
 - GUY WIRE
 - WATER METER
 - WATER VALVE
 - WARNING POST
 - FENCE
 - SWALE FLOWLINE
 - EDGE OF PAVEMENT
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - UNDERGROUND FIBER OPTIC
 - UNDERGROUND TELEPHONE
 - UNDERGROUND GAS MAIN
 - WATER MAIN
 - SANITARY SEWER
 - PROPOSED FLOWLINE
 - STRUCTURE NUMBER
 - PIPE NUMBER

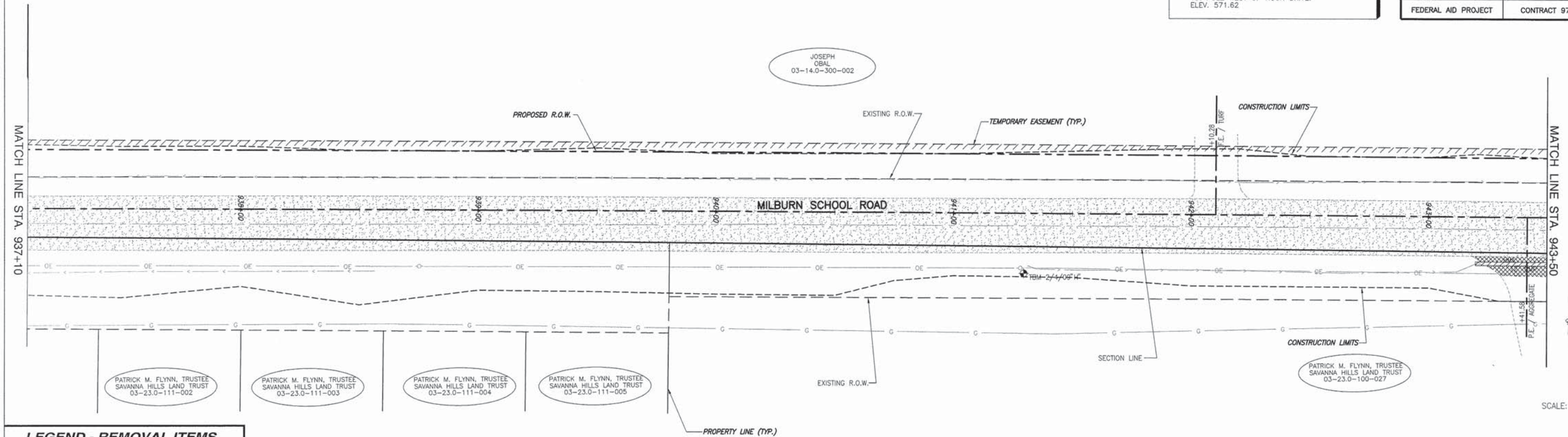


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	15
FEDERAL AID PROJECT			CONTRACT 97593	



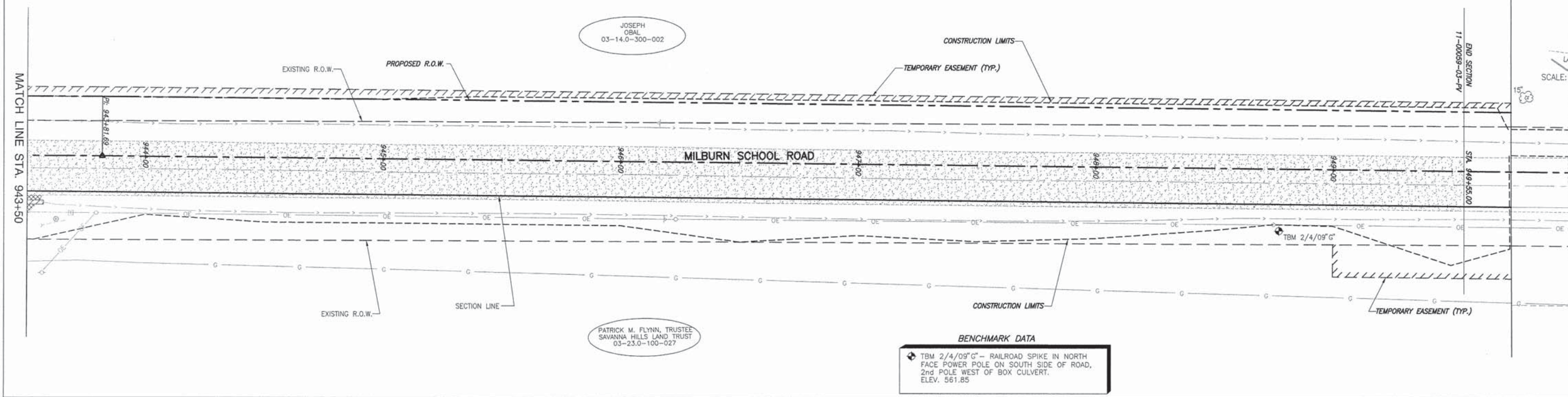
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	16
FEDERAL AID PROJECT			CONTRACT 97593	

BENCHMARK DATA
 TBM 2/4/09" H" - RAILROAD SPIKE IN NORTH FACE POWER POLE ON SOUTH SIDE OF ROAD; 1st POLE WEST OF ROCK DRIVE. ELEV. 571.62



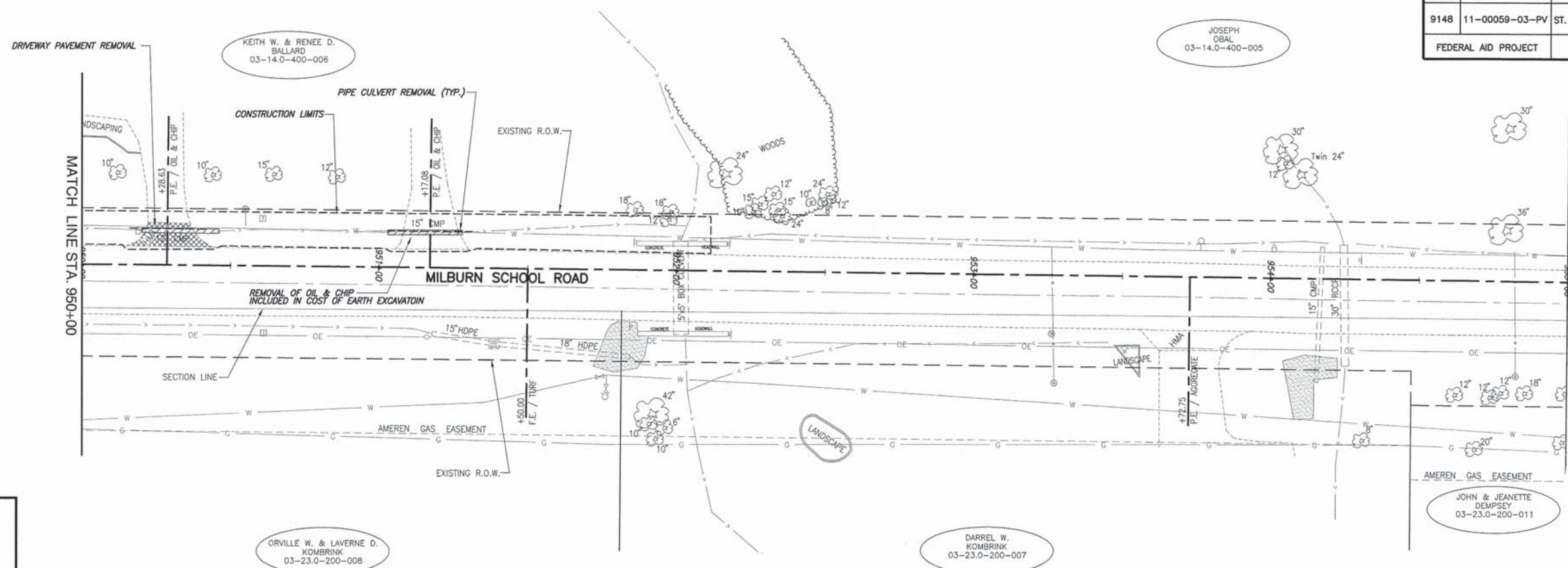
LEGEND - REMOVAL ITEMS

	DRIVEWAY PAVEMENT REMOVAL
	PAVEMENT REMOVAL
	PIPE CULVERT REMOVAL
	CURB REMOVAL



BENCHMARK DATA
 TBM 2/4/09" G" - RAILROAD SPIKE IN NORTH FACE POWER POLE ON SOUTH SIDE OF ROAD, 2nd POLE WEST OF BOX CULVERT. ELEV. 561.85

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	17
FEDERAL AID PROJECT		CONTRACT 97593		

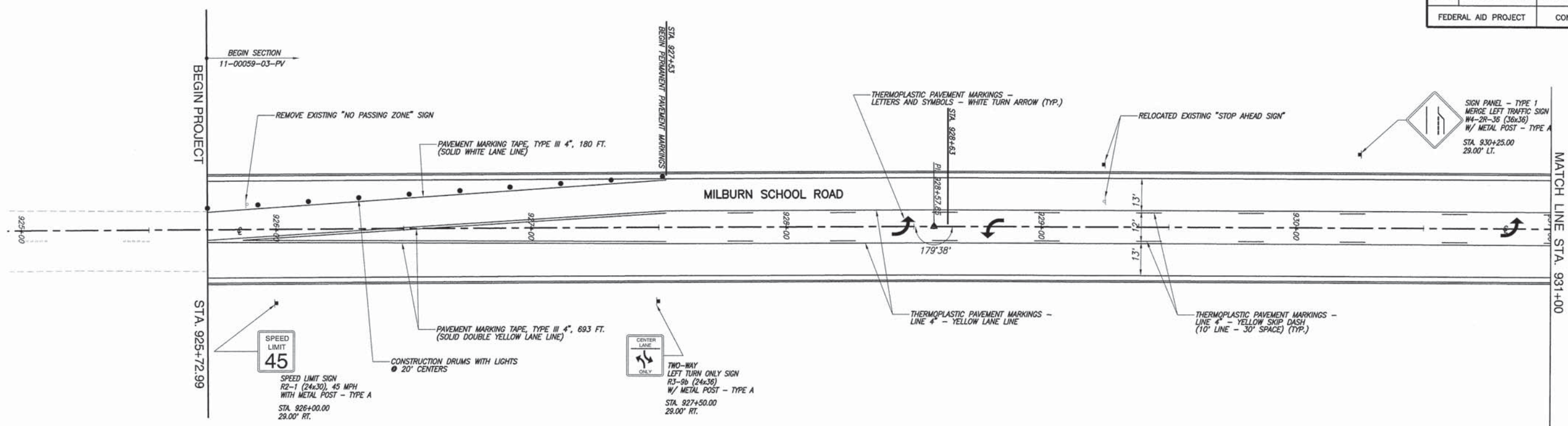


LEGEND - REMOVAL ITEMS

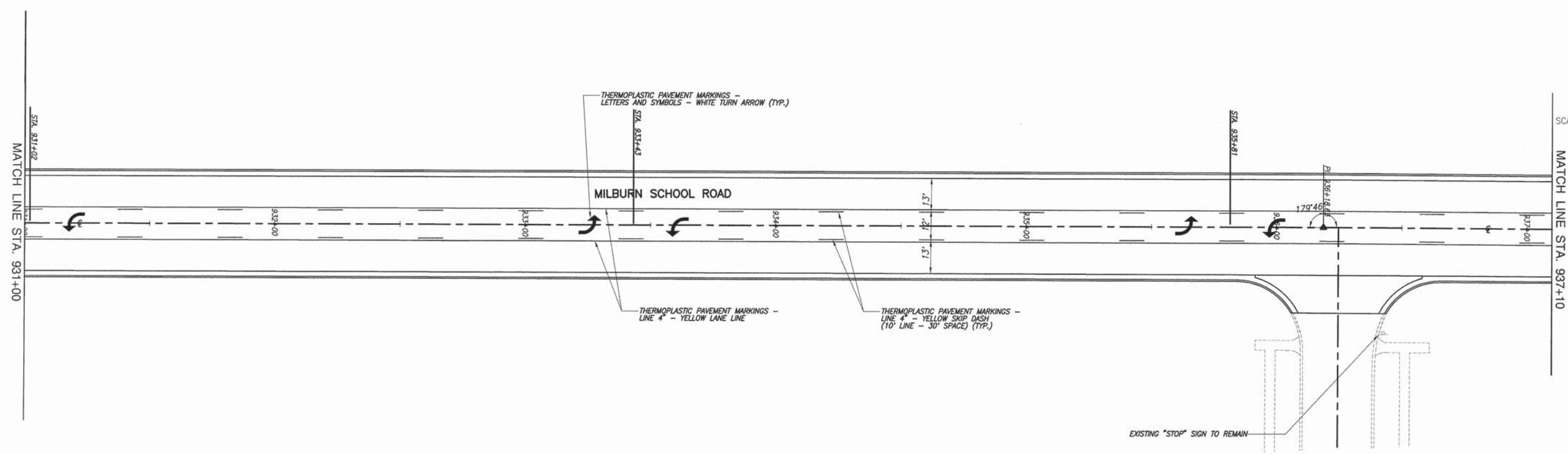
	HMA SURFACE REMOVAL, VARIABLE DEPTH
	DRIVEWAY PAVEMENT REMOVAL
	PAVEMENT REMOVAL
	PIPE CULVERT REMOVAL
	TREE REMOVAL
	STUMP REMOVAL
	STORM INLET REMOVAL



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	18
FEDERAL AID PROJECT		CONTRACT 97593		

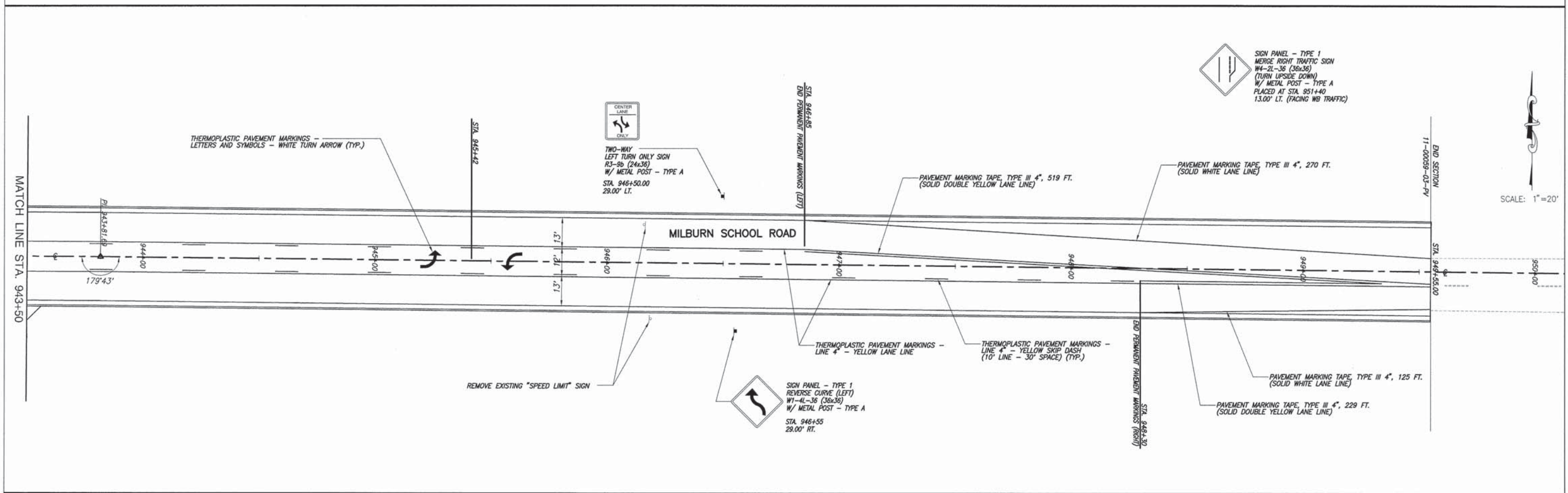
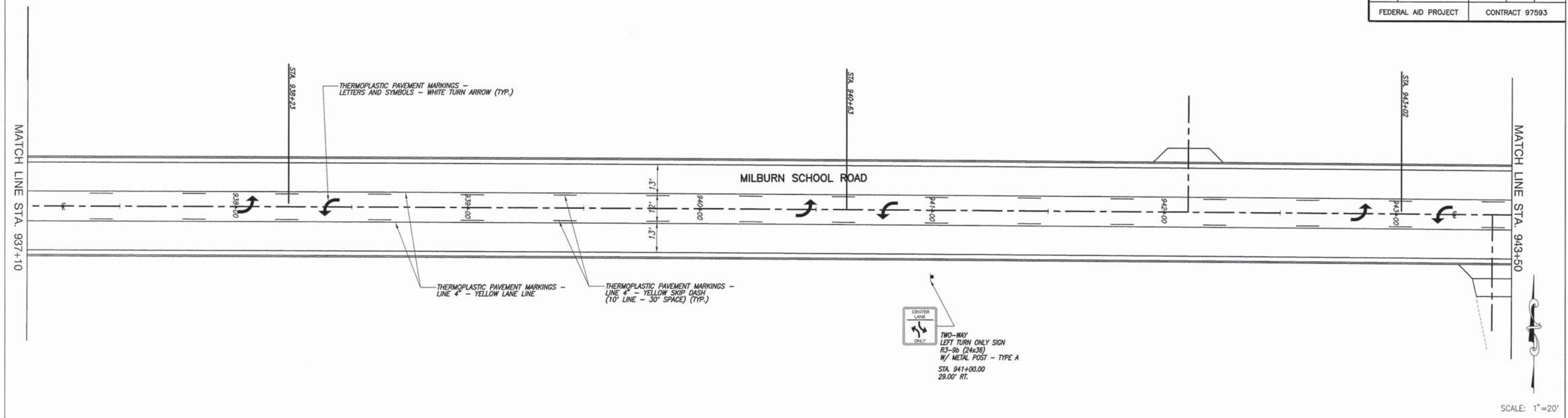


SCALE: 1"=20'

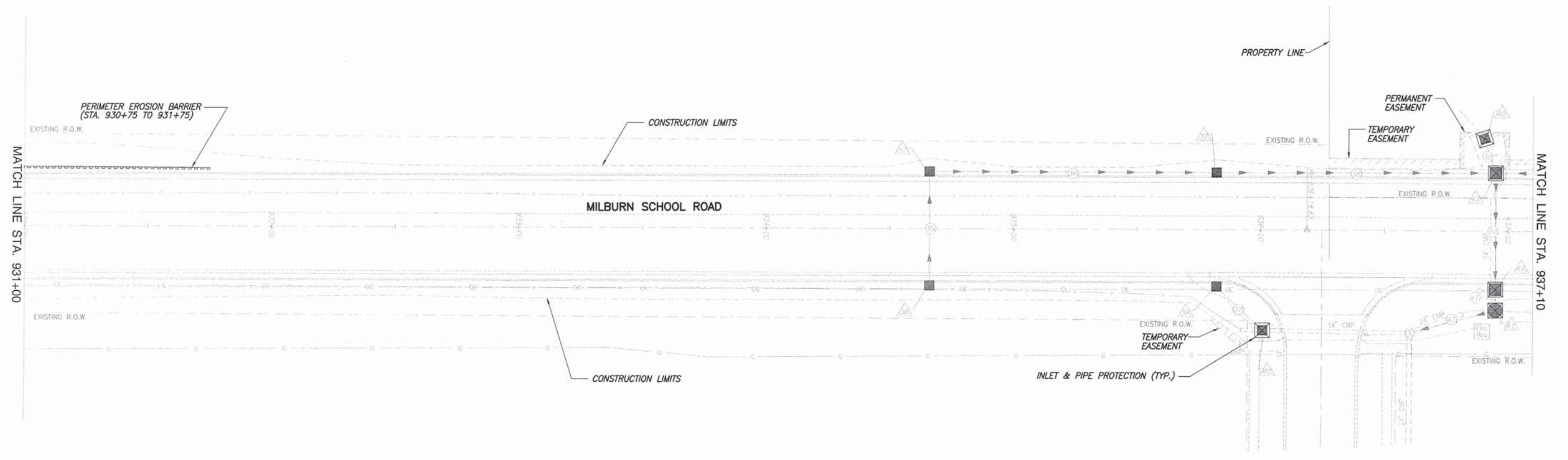
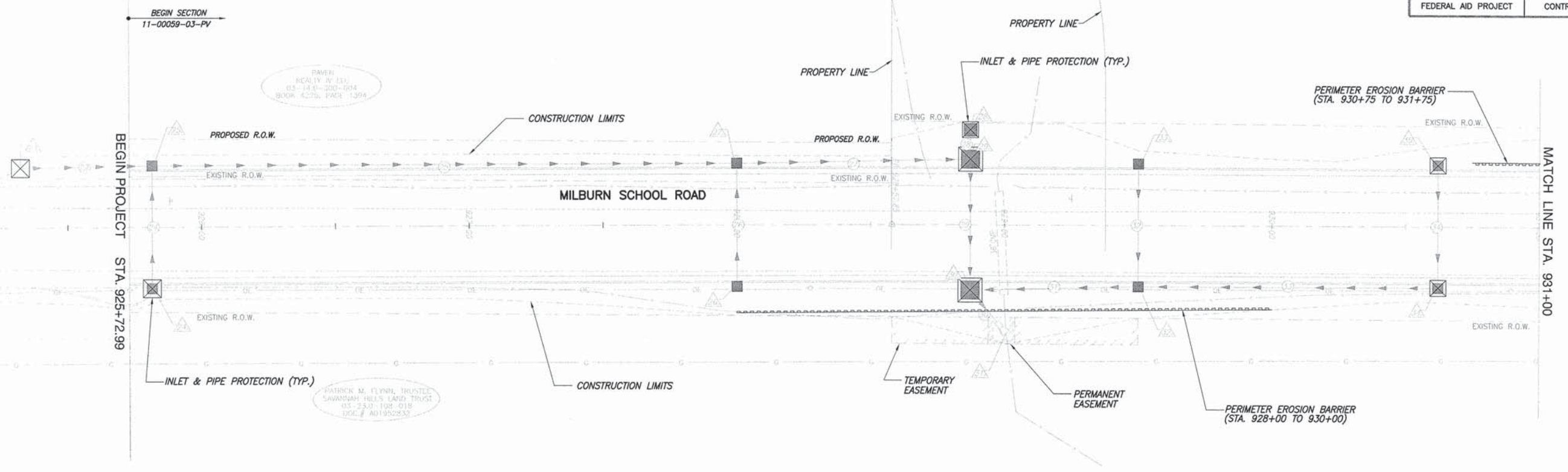


SCALE: 1"=20'

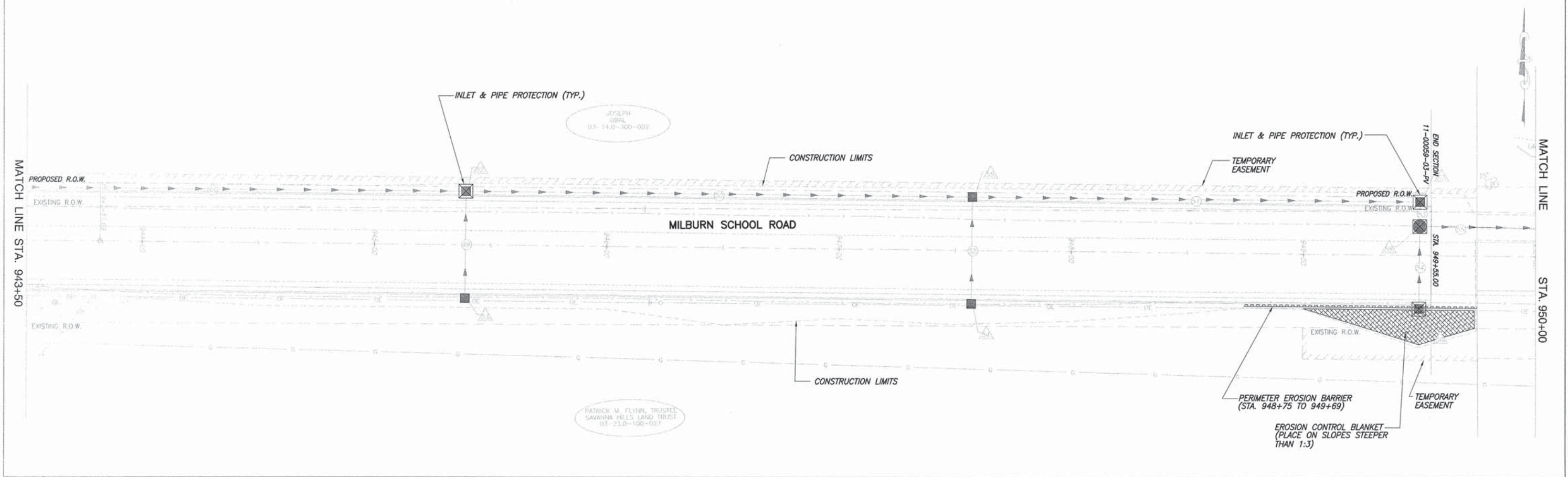
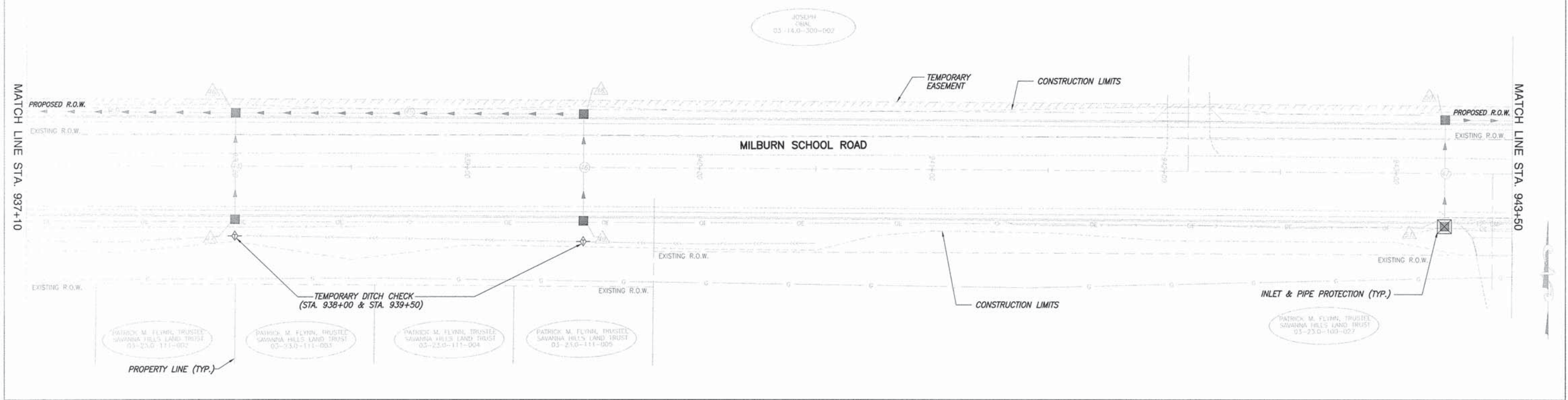
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	19
FEDERAL AID PROJECT			CONTRACT 97593	



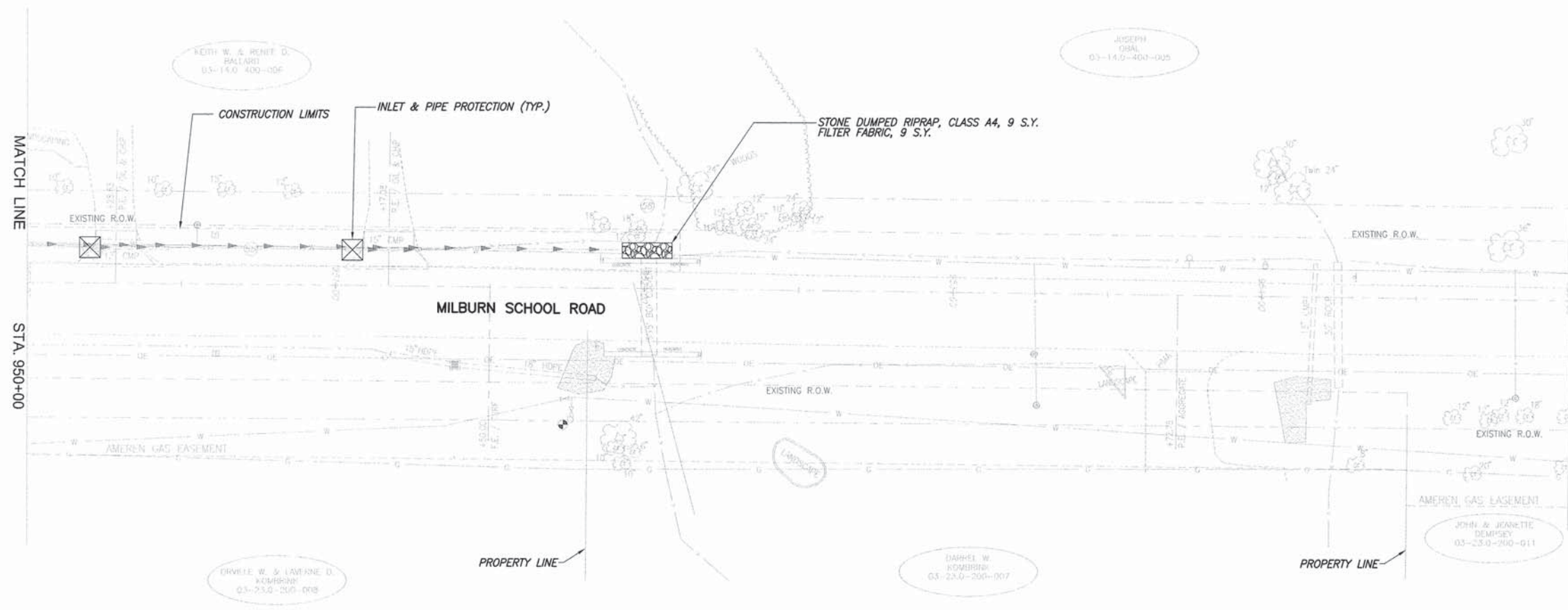
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	20
FEDERAL AID PROJECT		CONTRACT 97593		



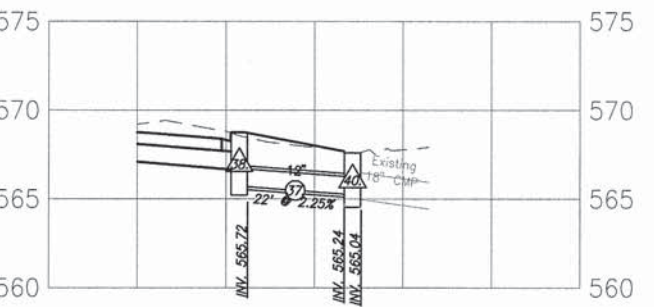
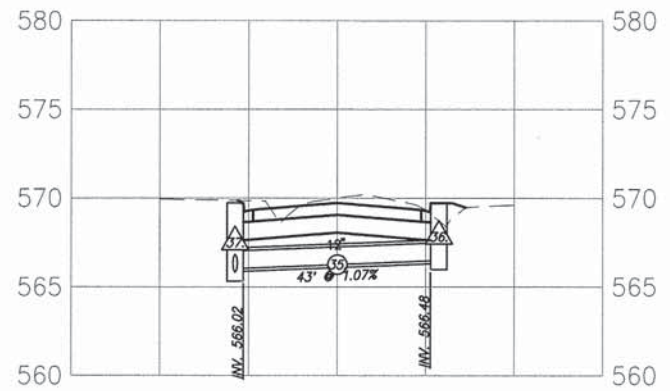
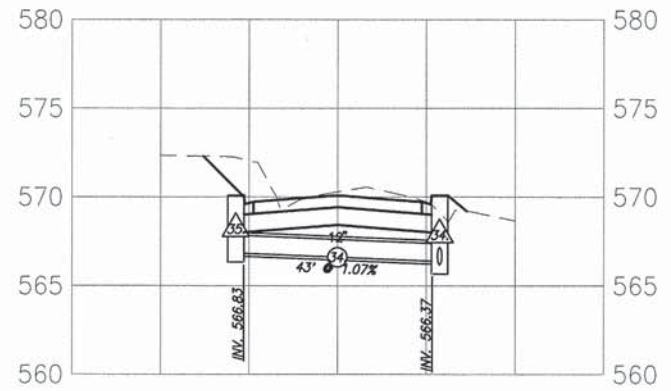
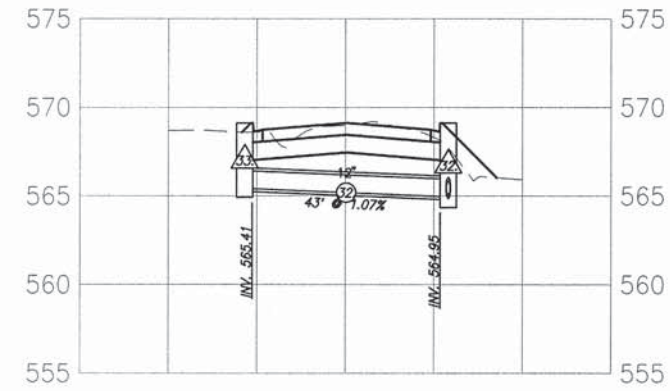
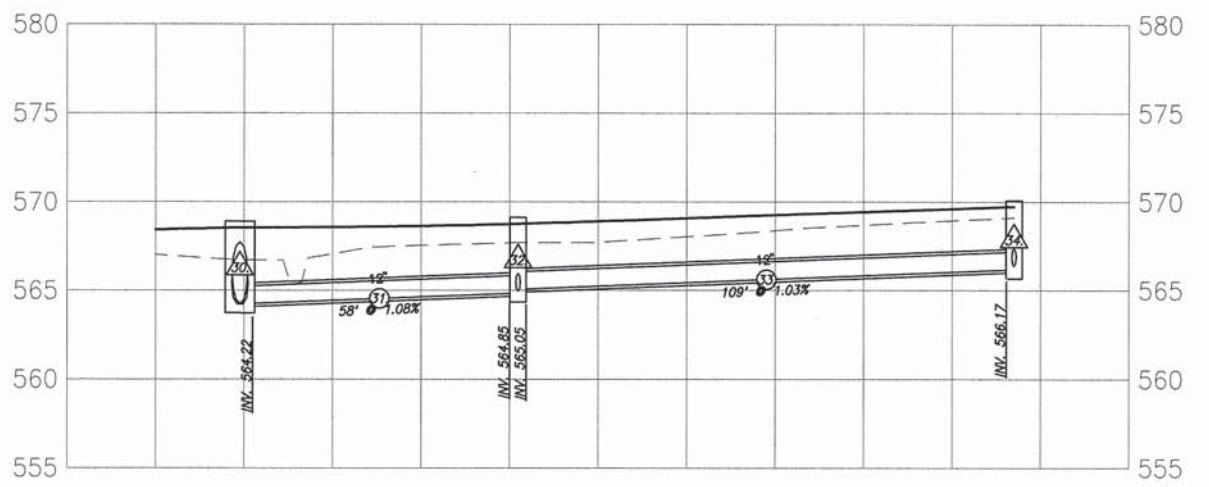
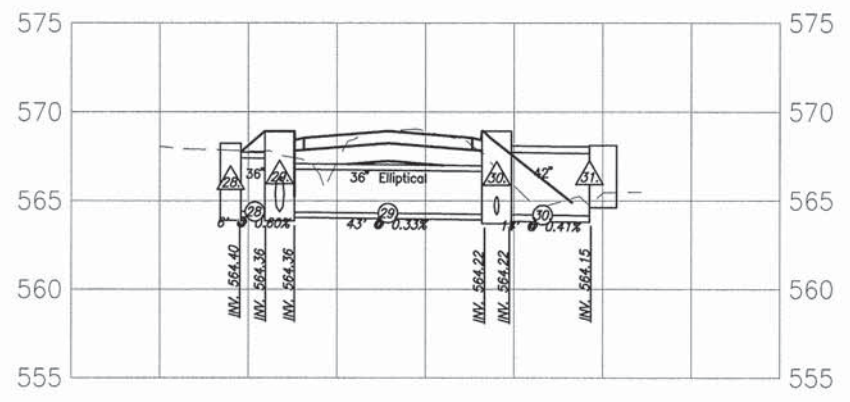
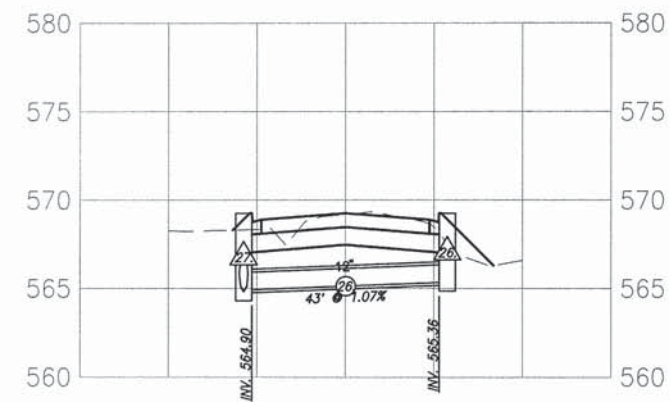
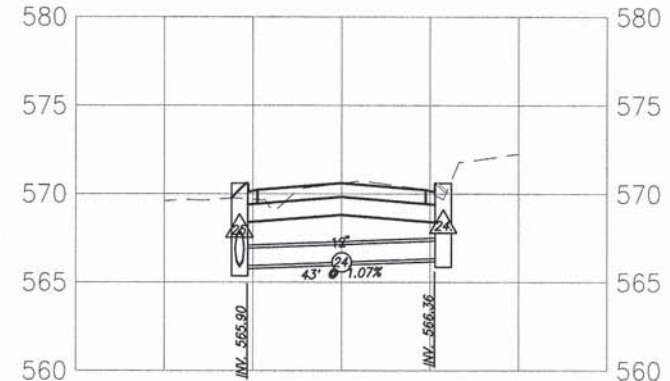
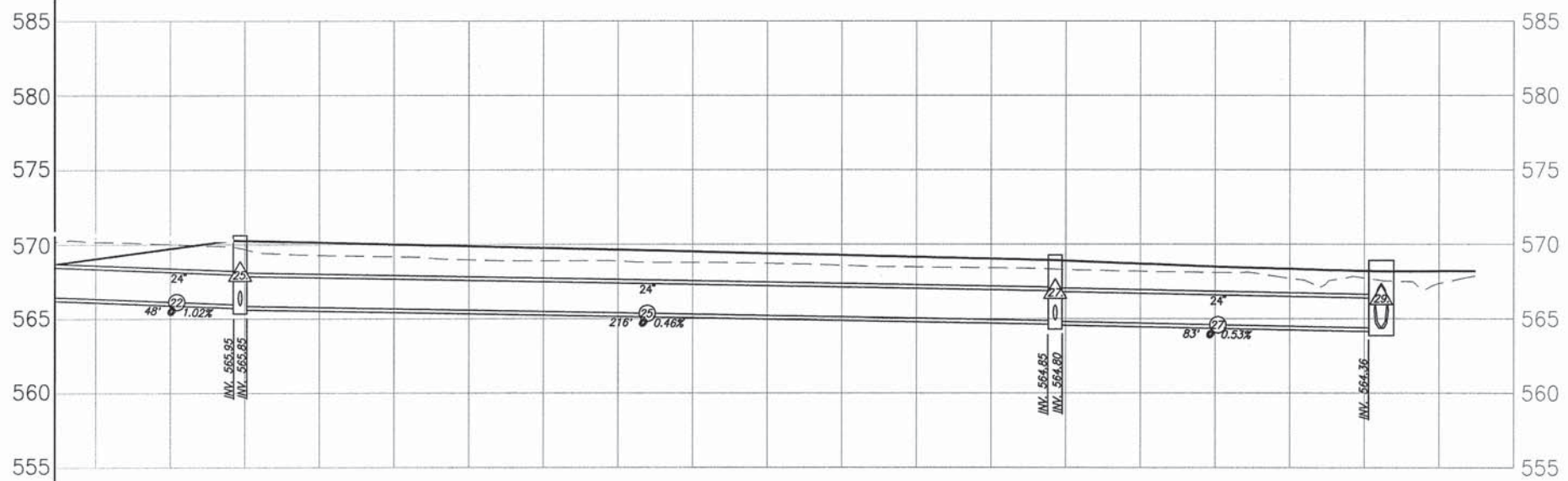
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	21
FEDERAL AID PROJECT			CONTRACT 97593	



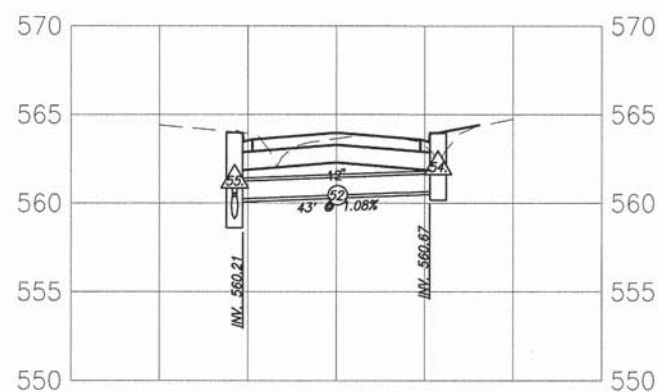
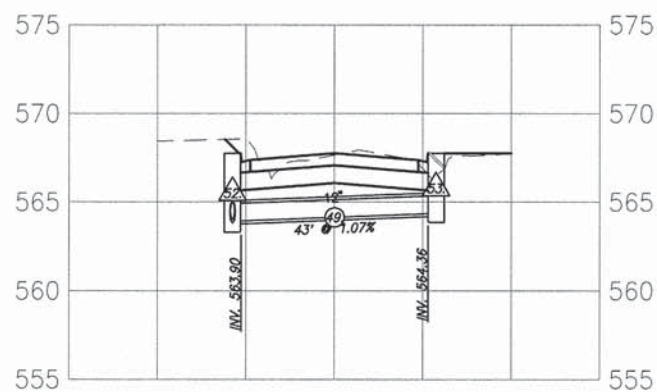
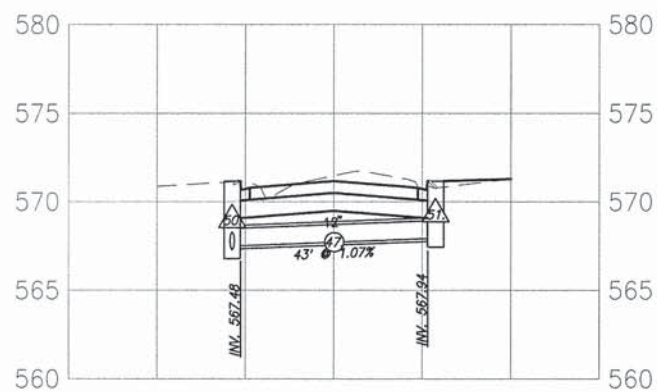
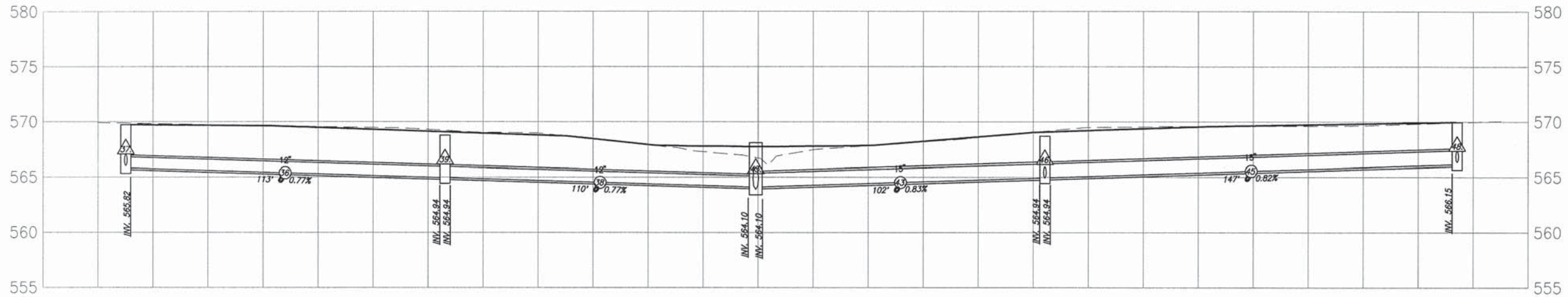
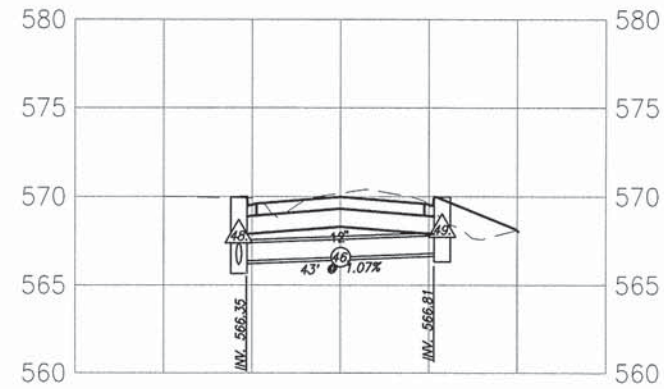
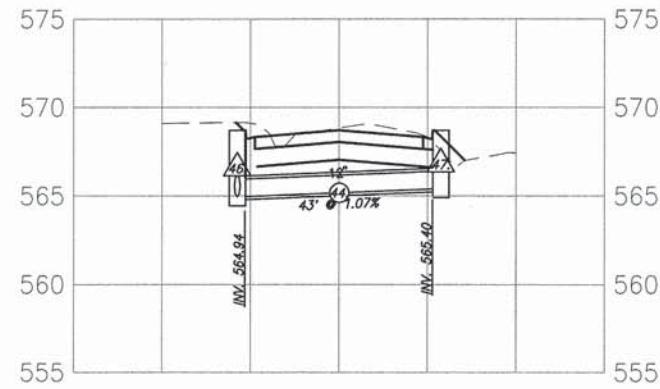
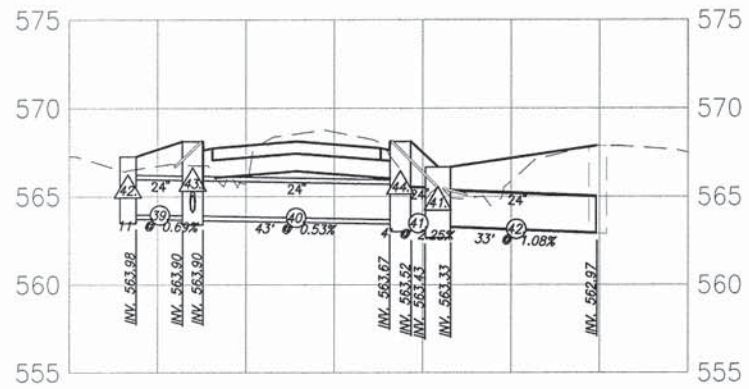
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	22
FEDERAL AID PROJECT		CONTRACT 97593		



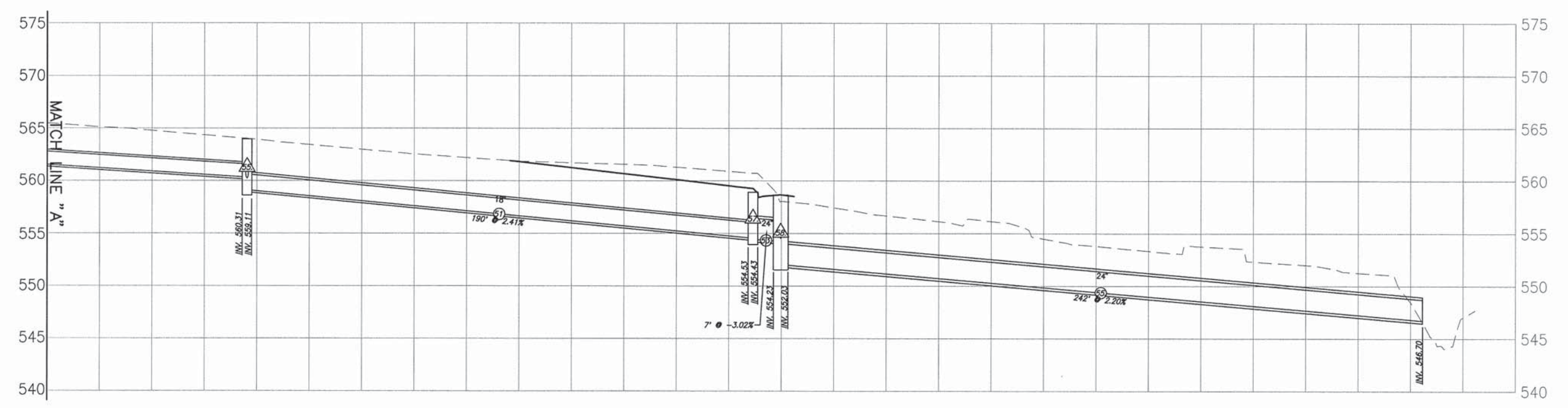
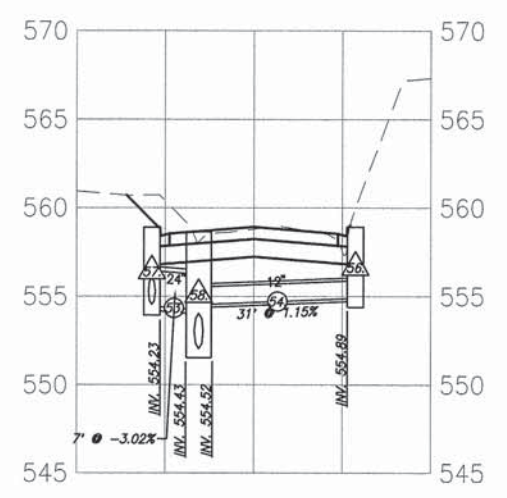
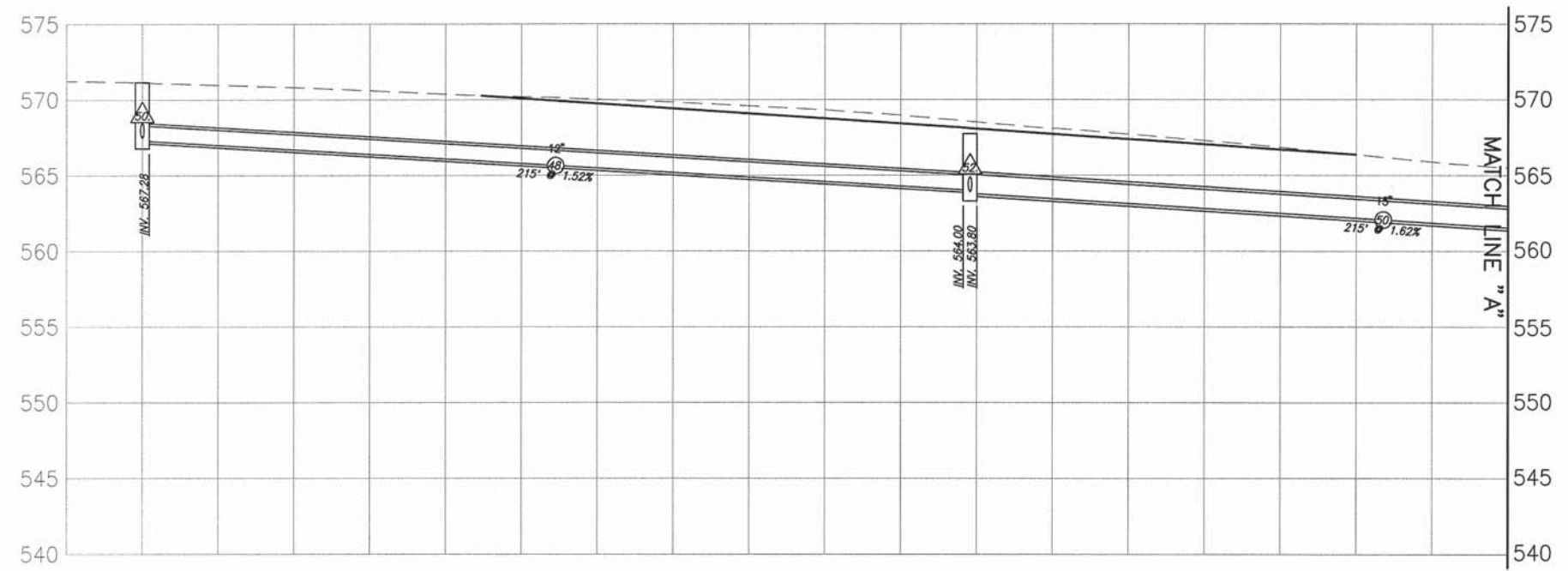
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	23
FEDERAL AID PROJECT			CONTRACT 97593	



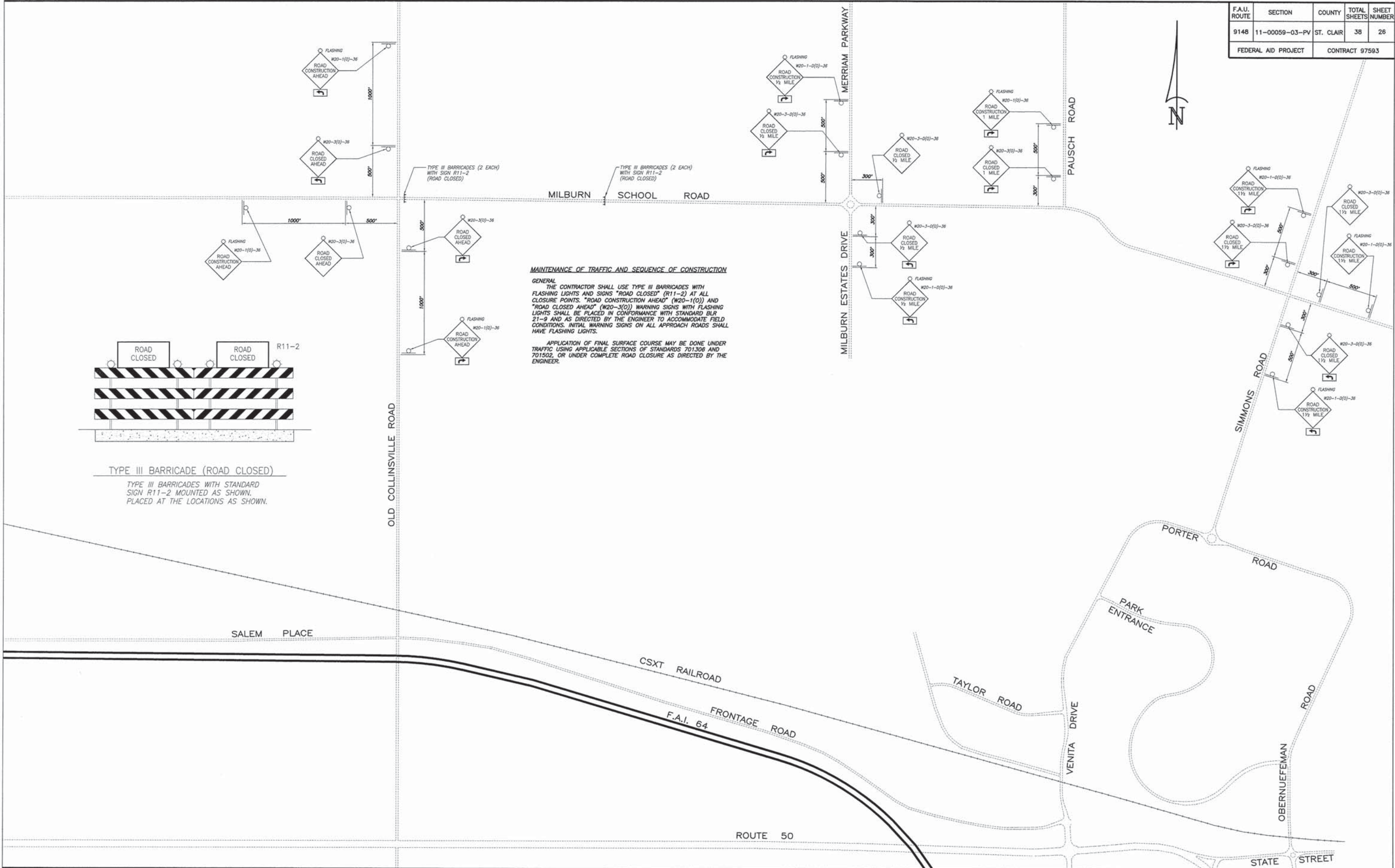
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9148	11-00059-03-PV	ST. CLAIR	38	24
FEDERAL AID PROJECT		CONTRACT 97593		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	25
FEDERAL AID PROJECT		CONTRACT 97593		



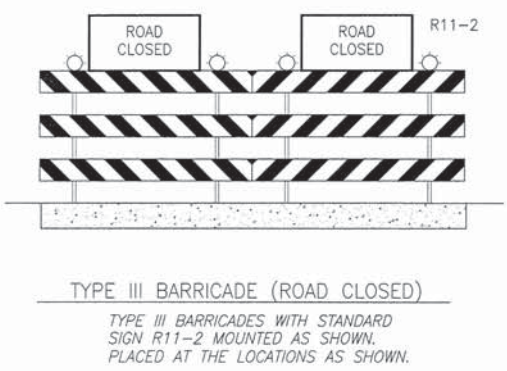
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	26
FEDERAL AID PROJECT			CONTRACT 97593	



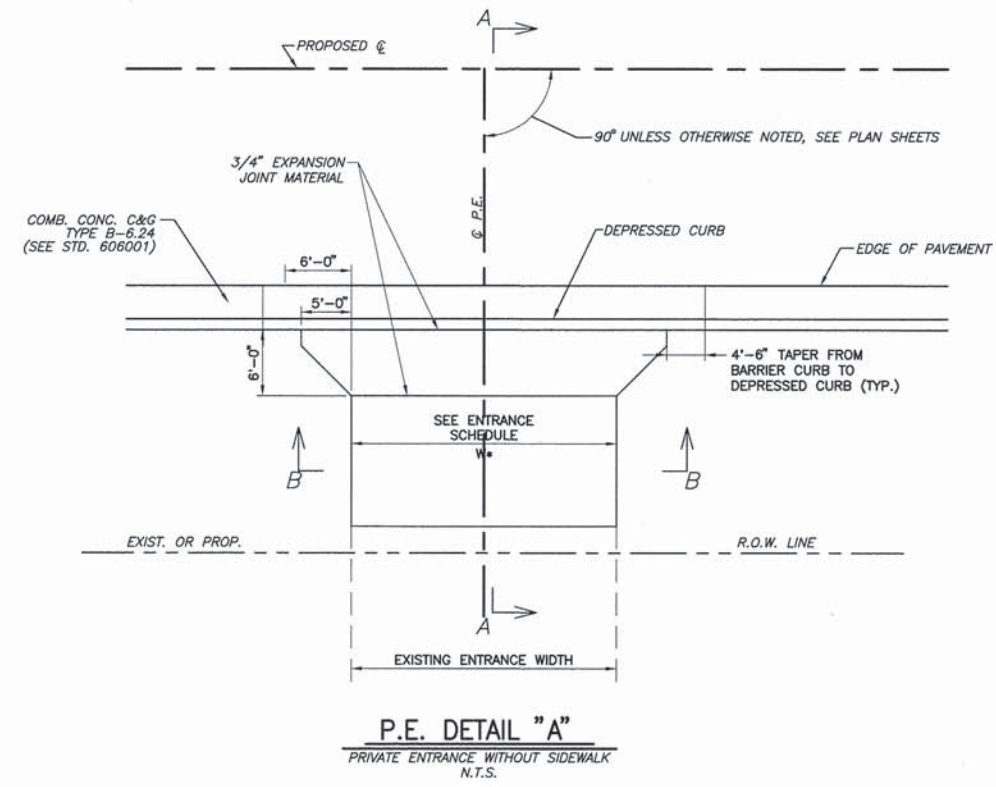
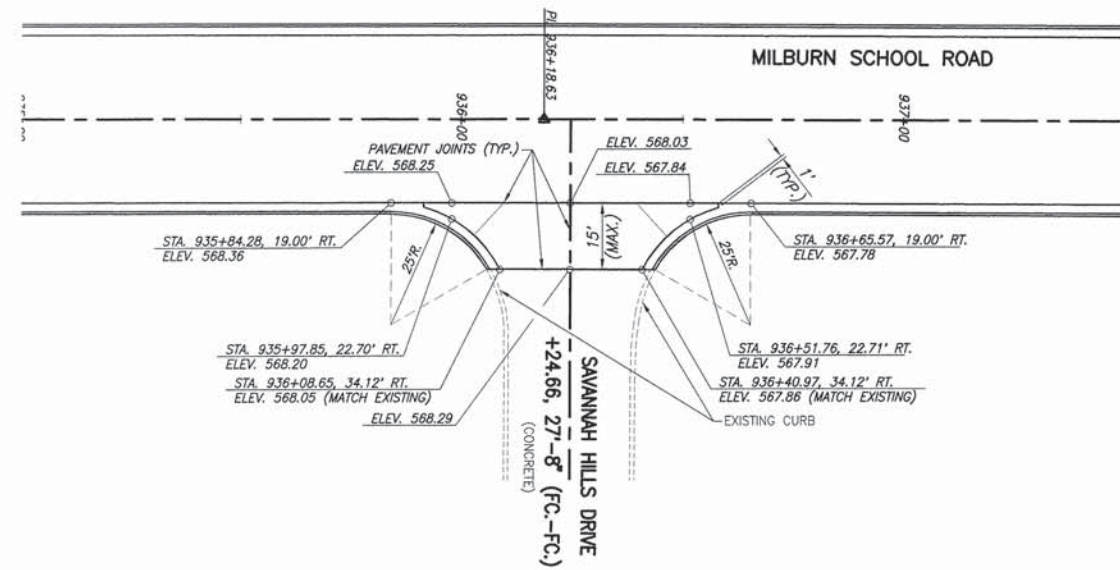
MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION

GENERAL
 THE CONTRACTOR SHALL USE TYPE III BARRICADES WITH FLASHING LIGHTS AND SIGNS "ROAD CLOSED" (R11-2) AT ALL CLOSURE POINTS. "ROAD CONSTRUCTION AHEAD" (W20-1(0)) AND "ROAD CLOSED AHEAD" (W20-3(0)) WARNING SIGNS WITH FLASHING LIGHTS SHALL BE PLACED IN CONFORMANCE WITH STANDARD BLR 21-9 AND AS DIRECTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS. INITIAL WARNING SIGNS ON ALL APPROACH ROADS SHALL HAVE FLASHING LIGHTS.

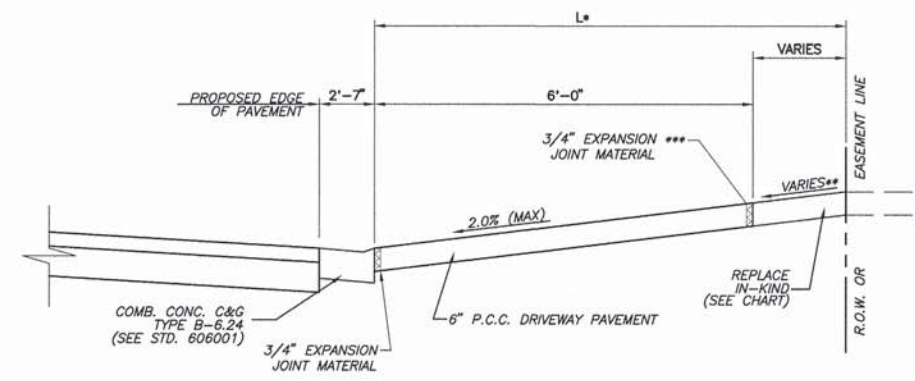
APPLICATION OF FINAL SURFACE COURSE MAY BE DONE UNDER TRAFFIC USING APPLICABLE SECTIONS OF STANDARDS 701306 AND 701502, OR UNDER COMPLETE ROAD CLOSURE AS DIRECTED BY THE ENGINEER.



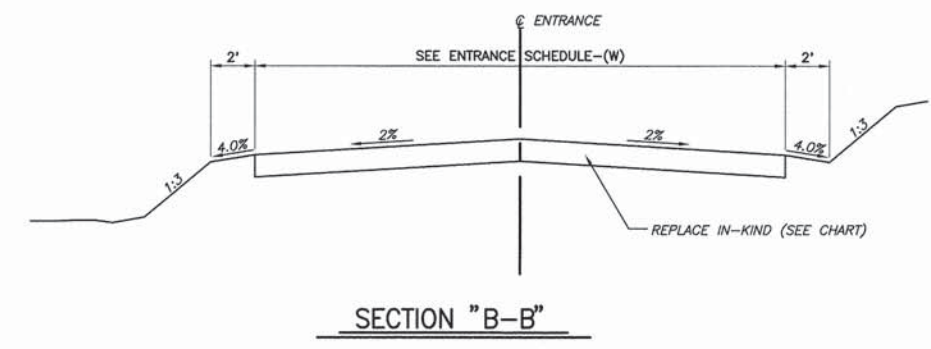
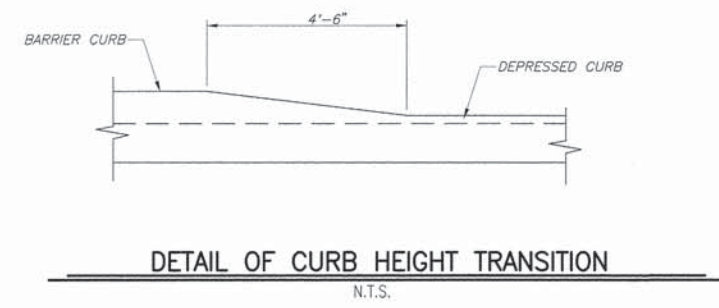
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	27
FEDERAL AID PROJECT		CONTRACT 97593		



TYPE OF ENTRANCE	EXISTING MATERIAL	NEW ENTRANCE MATERIAL (BEYOND TAPERS)			
		PCC DRIVEWAY PAVEMENT	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE BASE COURSE TYPE B	AGGREGATE SURFACE COURSE TYPE B
PRIVATE & COMMERCIAL	CONCRETE	X			
	BITUMINOUS		X	X	
	AGGREGATE				X



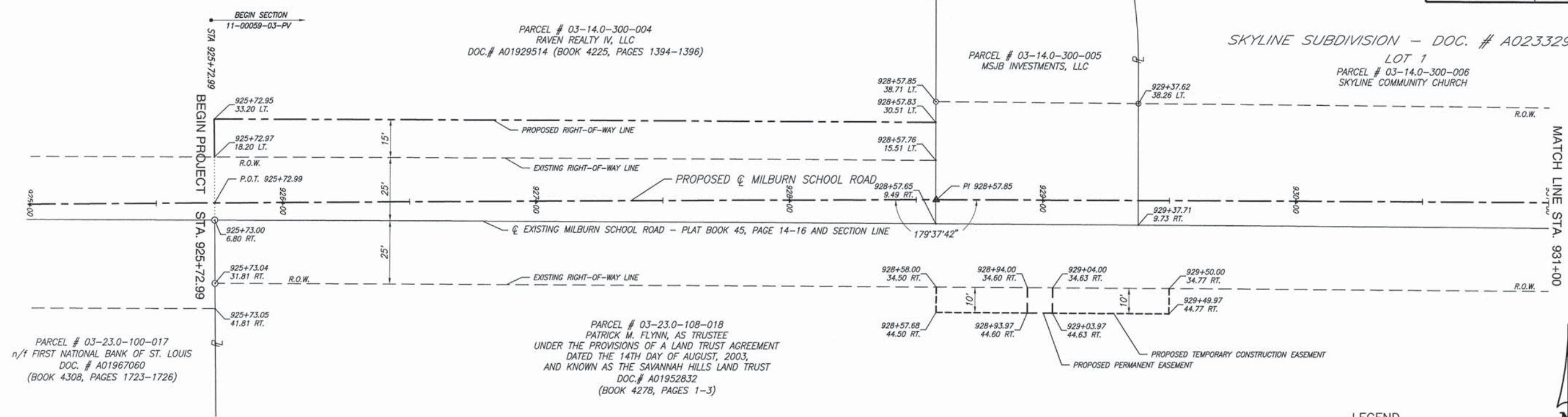
* SEE ENTRANCE SCHEDULE FOR DISTANCES
 ** SEE CROSS SECTIONS FOR SLOPES
 *** EXPANSION REQUIRED ADJACENT TO CONCRETE DRIVEWAY PAVEMENT



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	28
FEDERAL AID PROJECT			CONTRACT 97593	

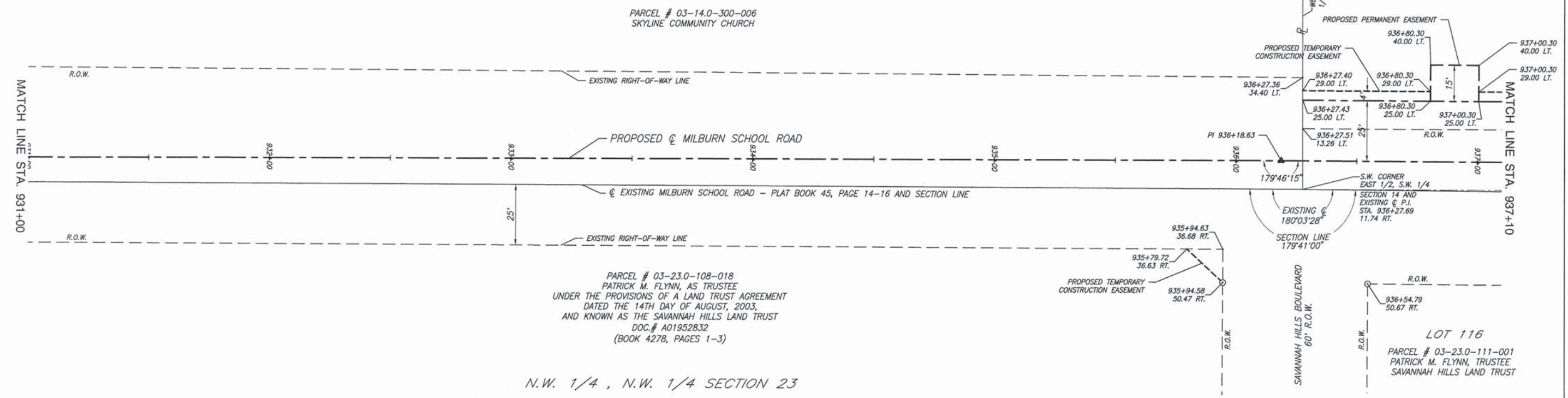
WEST 1/2, S.W. 1/4 SECTION 14

SKYLINE SUBDIVISION - DOC. # A02332911
LOT 1



WEST 1/2, S.W. 1/4 SECTION 14

SKYLINE SUBDIVISION - DOC. # A02332911
LOT 1

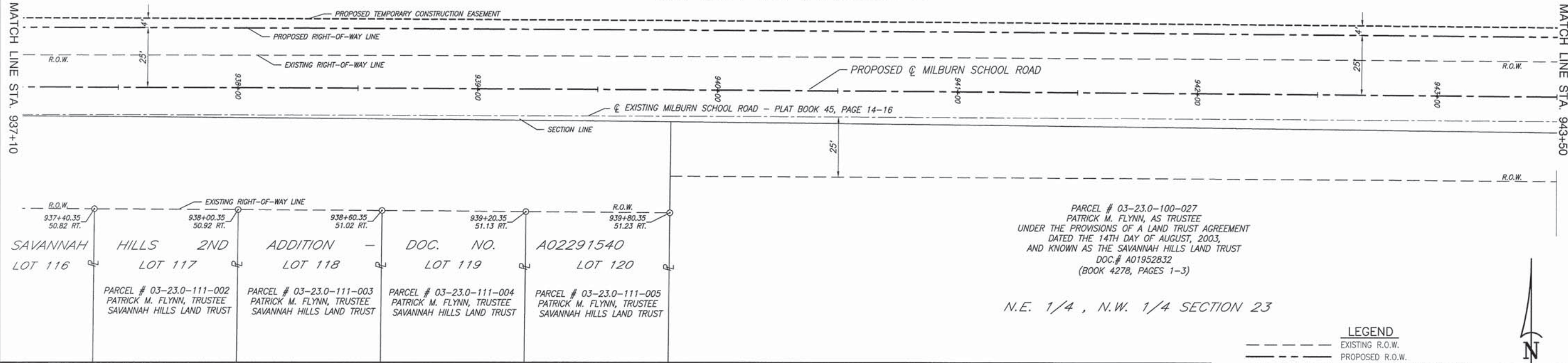


N.W. 1/4, N.W. 1/4 SECTION 23

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	29
FEDERAL AID PROJECT			CONTRACT 97593	

PARCEL # 03-14.0-300-002
 JOSEPH L. OBAL, AS TRUSTEE OF THE OBAL FAMILY FARM LAND TRUST AGREEMENT DATED JULY 20, 2000
 DOC.# A01566788 (BOOK 3452, PAGES 449-452) AND
 DOC.# A01566789 (BOOK 3452, PAGES 453-455)

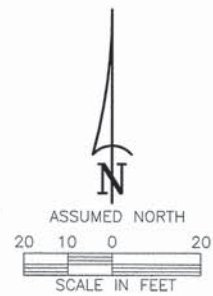
EAST 1/2, S.W. 1/4 SECTION 14



PARCEL # 03-23.0-100-027
 PATRICK M. FLYNN, AS TRUSTEE
 UNDER THE PROVISIONS OF A LAND TRUST AGREEMENT
 DATED THE 14TH DAY OF AUGUST, 2003,
 AND KNOWN AS THE SAVANNAH HILLS LAND TRUST
 DOC.# A01952832
 (BOOK 4278, PAGES 1-3)

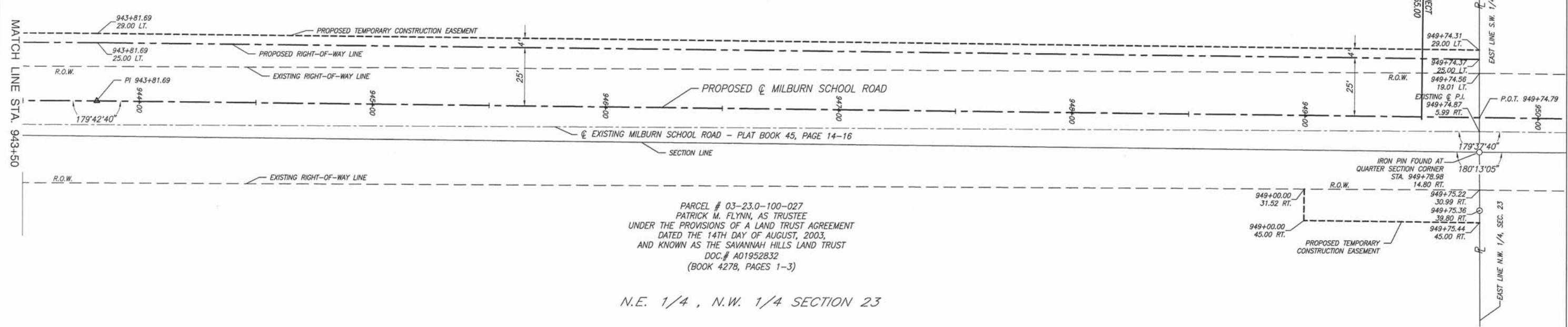
N.E. 1/4, N.W. 1/4 SECTION 23

- LEGEND**
- EXISTING R.O.W.
 - - - PROPOSED R.O.W.
 - - - PROPOSED TEMPORARY EASEMENT
 - IRON PIN FOUND



PARCEL # 03-14.0-300-002
 JOSEPH L. OBAL, AS TRUSTEE OF THE OBAL FAMILY FARM LAND TRUST AGREEMENT DATED JULY 20, 2000
 DOC.# A01566788 (BOOK 3452, PAGES 449-452) AND
 DOC.# A01566789 (BOOK 3452, PAGES 453-455)

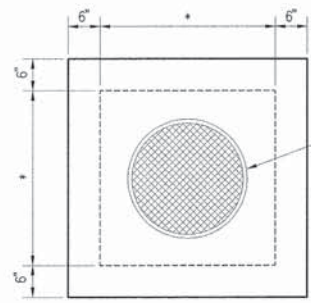
EAST 1/2, S.W. 1/4 SECTION 14



PARCEL # 03-23.0-100-027
 PATRICK M. FLYNN, AS TRUSTEE
 UNDER THE PROVISIONS OF A LAND TRUST AGREEMENT
 DATED THE 14TH DAY OF AUGUST, 2003,
 AND KNOWN AS THE SAVANNAH HILLS LAND TRUST
 DOC.# A01952832
 (BOOK 4278, PAGES 1-3)

N.E. 1/4, N.W. 1/4 SECTION 23

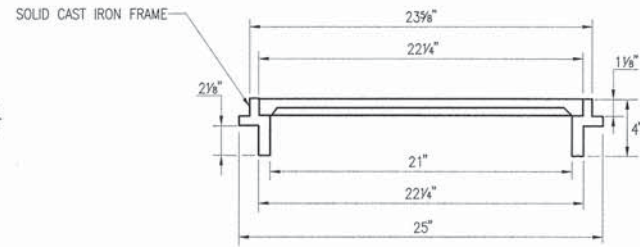
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	30
FEDERAL AID PROJECT			CONTRACT 97593	



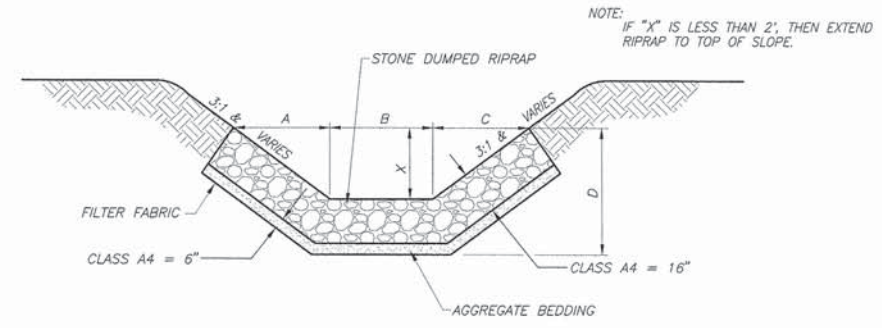
PRECAST LID DETAIL

* NO. 1 = 3'
 NO. 2 = 4'
 NO. 3 = 6'

INLET TYPE	INSIDE WIDTH	LID TYPE
INLETS, SPECIAL NO. 1	3' X 3'	NORMAL
INLETS, SPECIAL NO. 2	4' X 4'	NORMAL
INLETS, SPECIAL NO. 3	6' X 6'	NORMAL

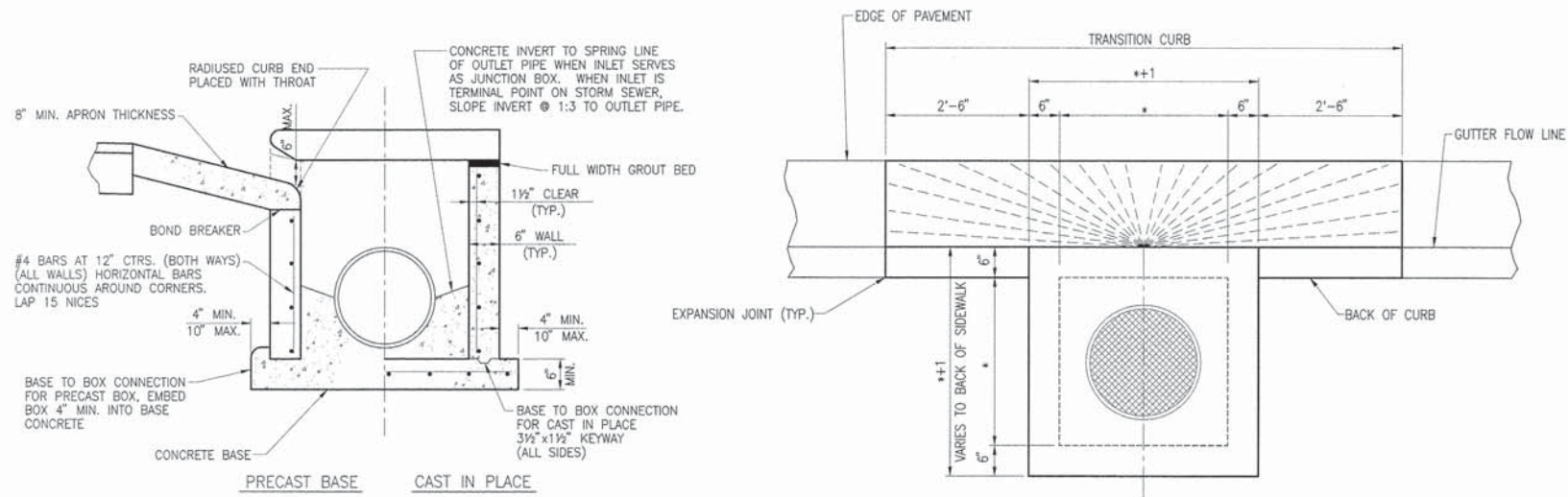


FRAME AND CLOSED LID



STONE DUMPED RIPRAP DITCH LINING

N.T.S.

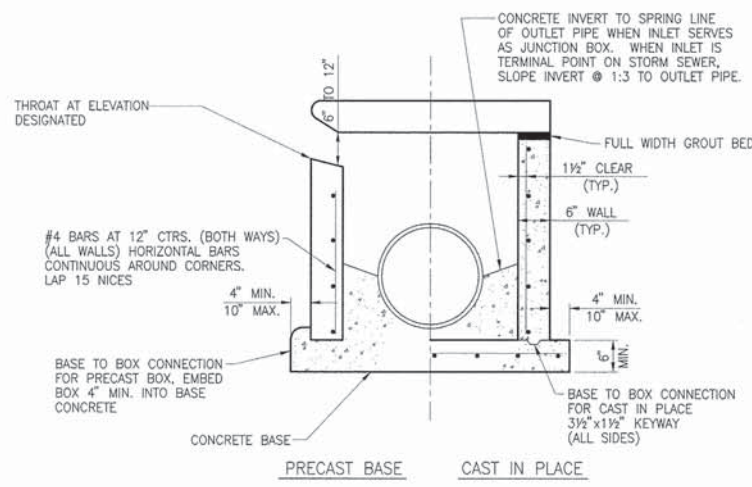


END VIEW

PLAN

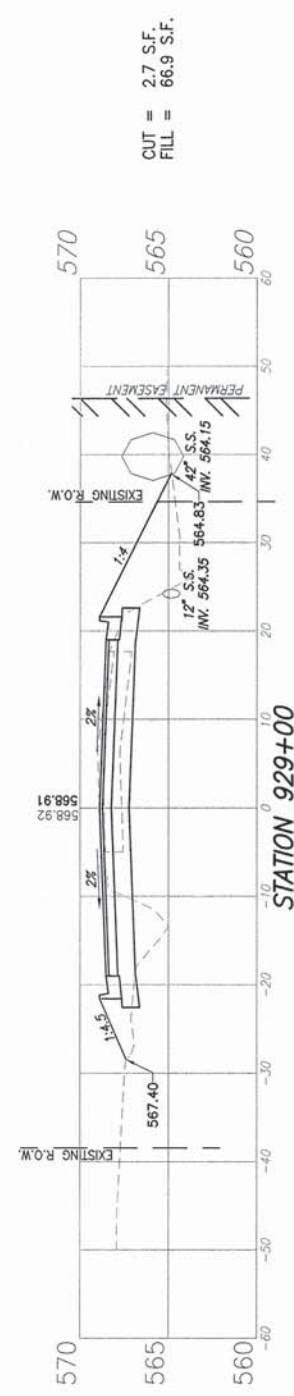
INLETS, SPECIAL NO. 1, 2 & 3

N.T.S.

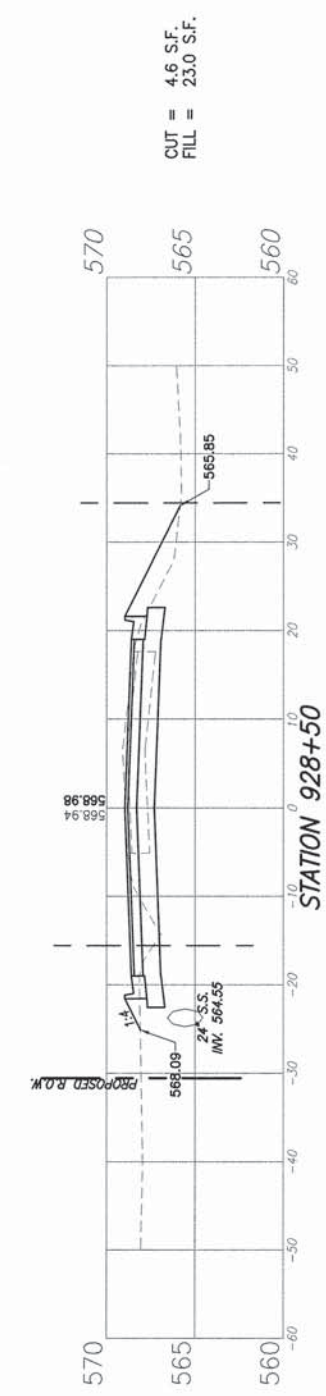


INLET SPECIAL W/THROATED OPENINGS

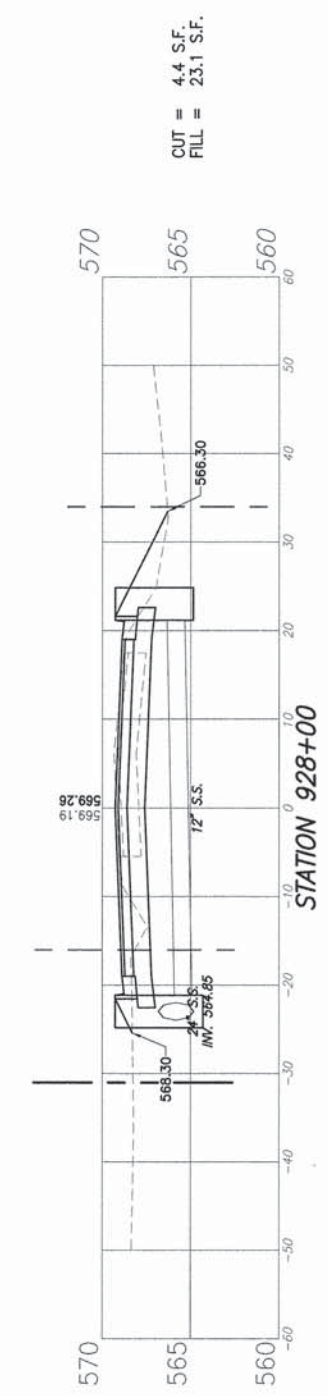
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	31
FEDERAL AID PROJECT		CONTRACT 97593		



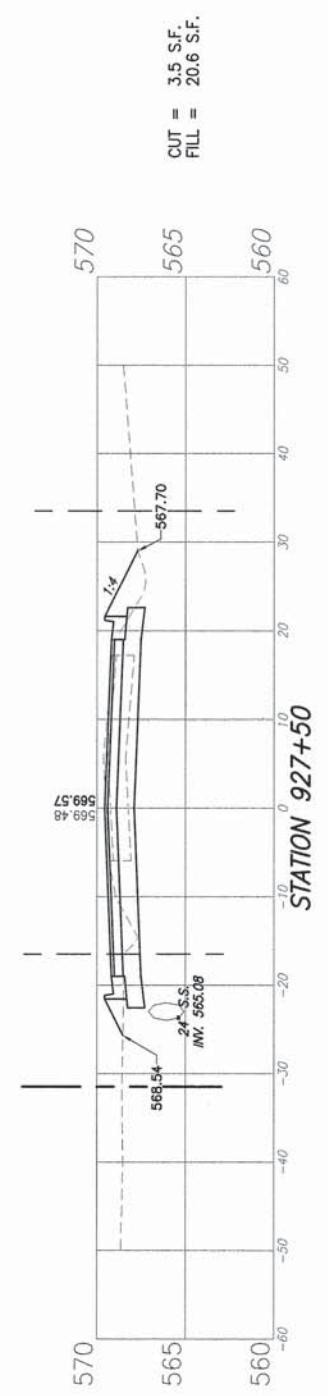
CUT = 2.7 S.F.
FILL = 66.9 S.F.



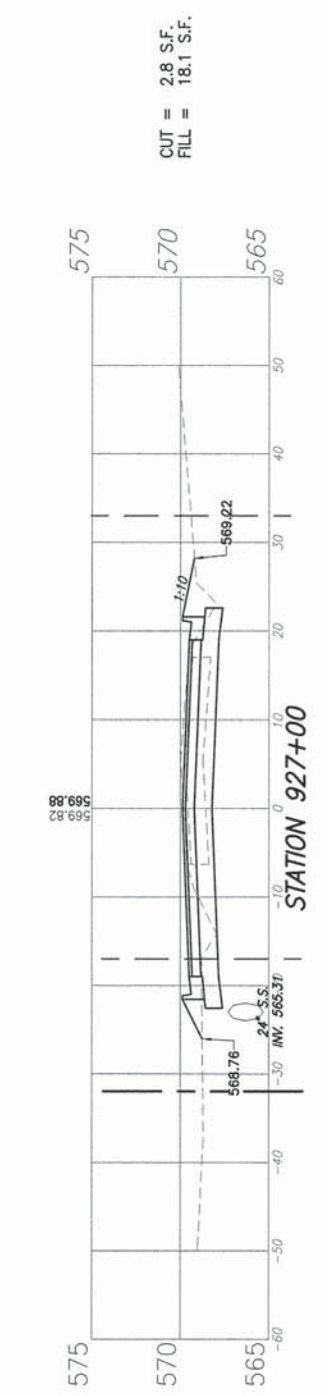
CUT = 4.6 S.F.
FILL = 23.0 S.F.



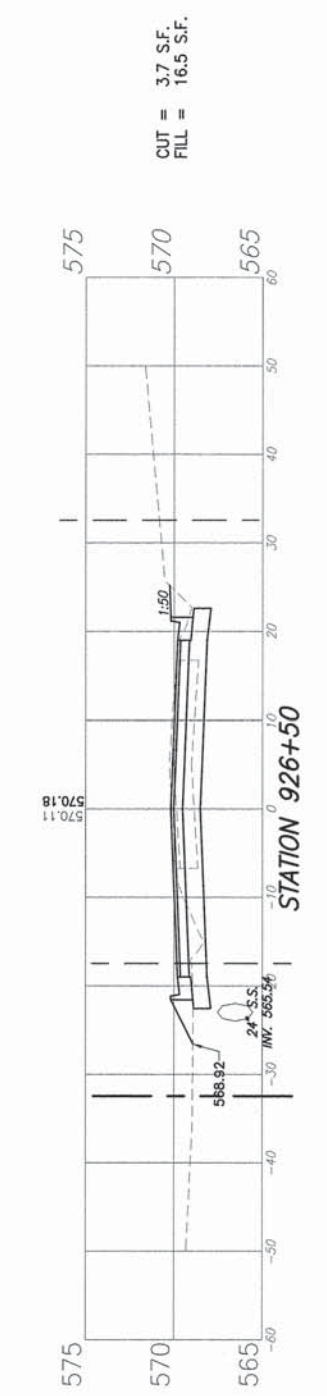
CUT = 4.4 S.F.
FILL = 23.1 S.F.



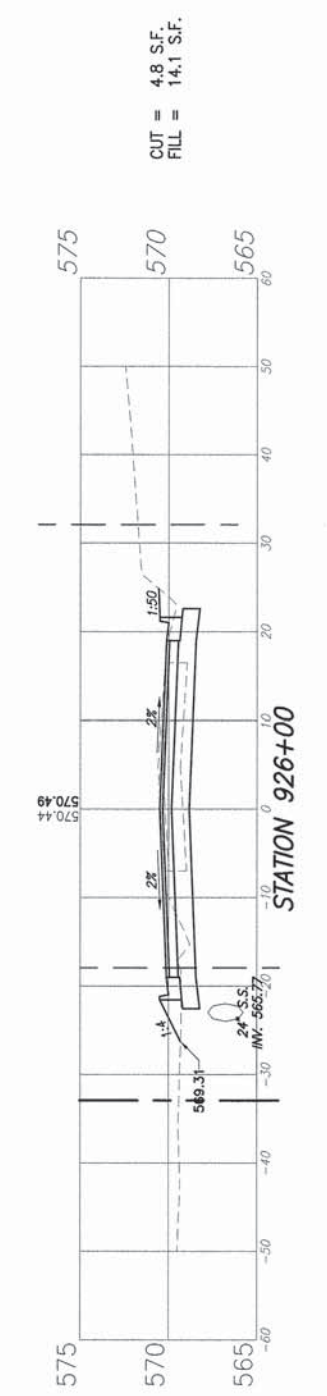
CUT = 3.5 S.F.
FILL = 20.6 S.F.



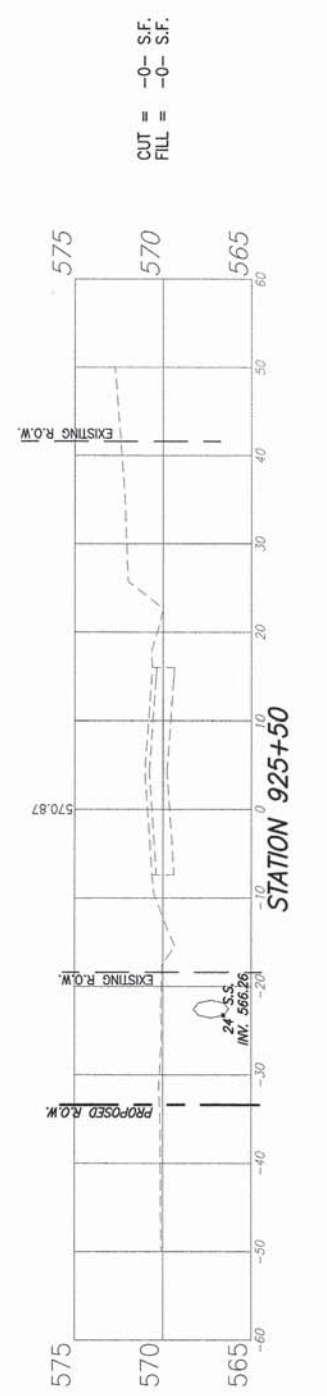
CUT = 2.8 S.F.
FILL = 18.1 S.F.



CUT = 3.7 S.F.
FILL = 16.5 S.F.

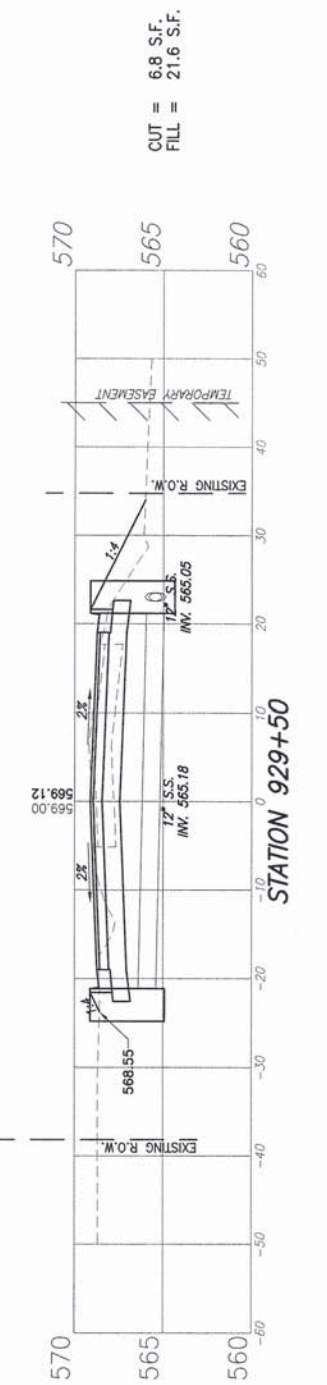
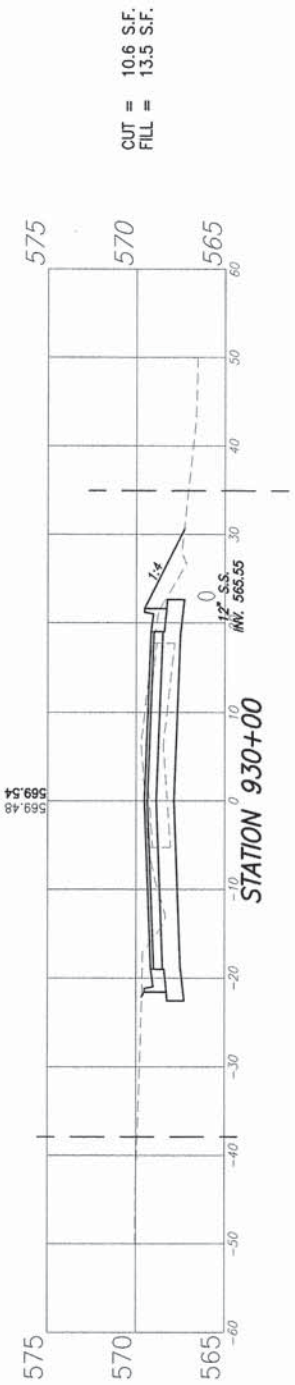
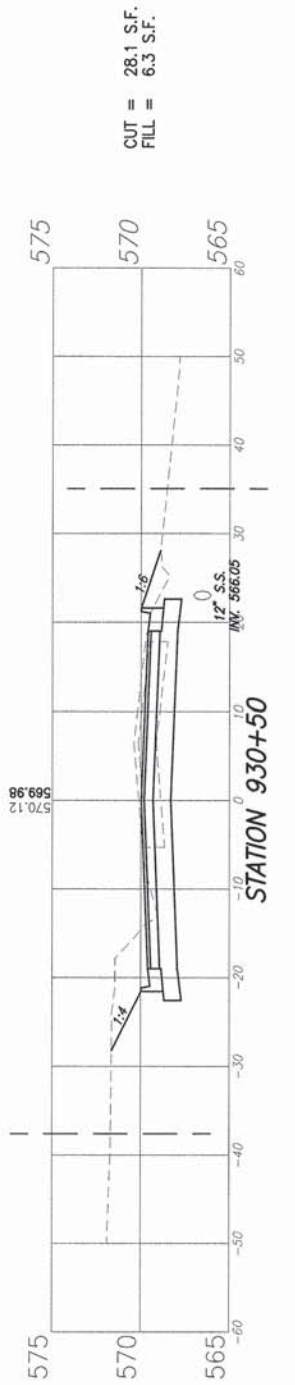
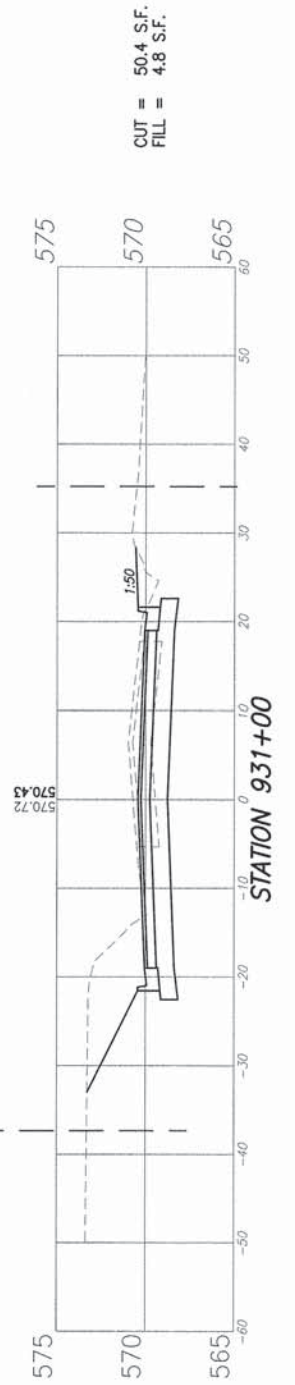
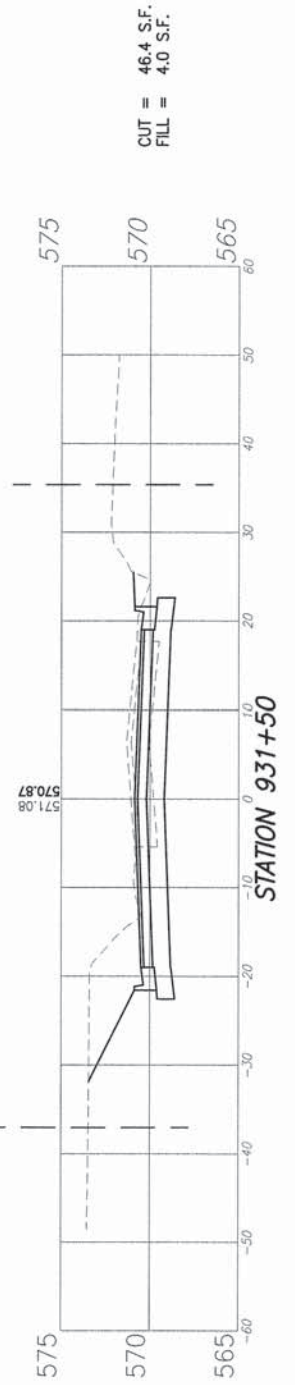
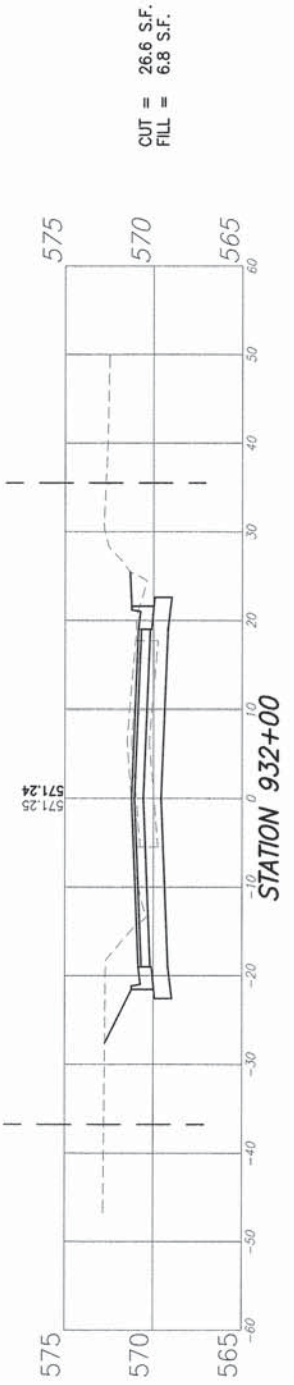
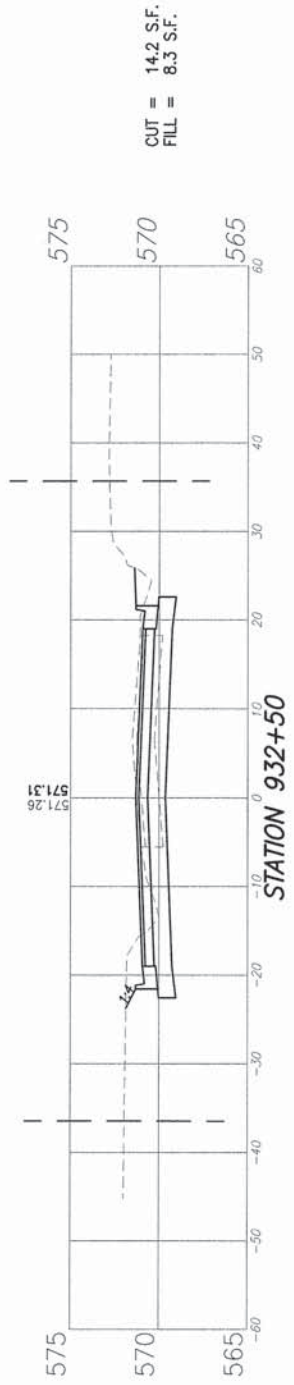
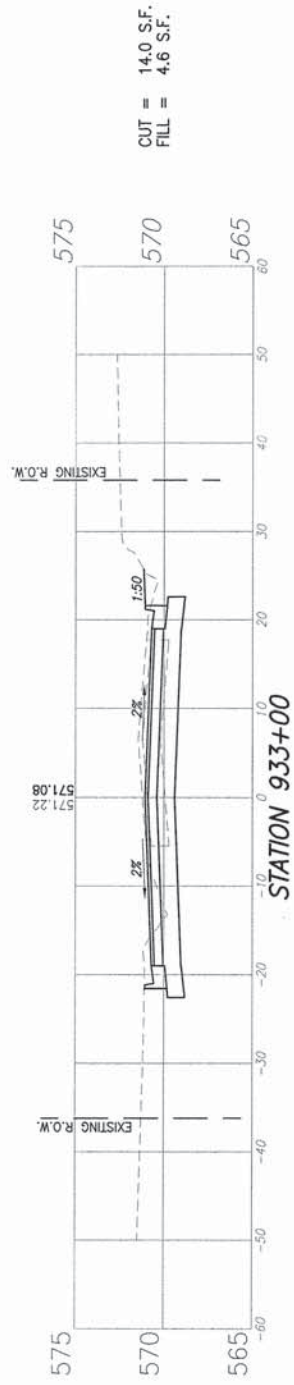


CUT = 4.8 S.F.
FILL = 14.1 S.F.

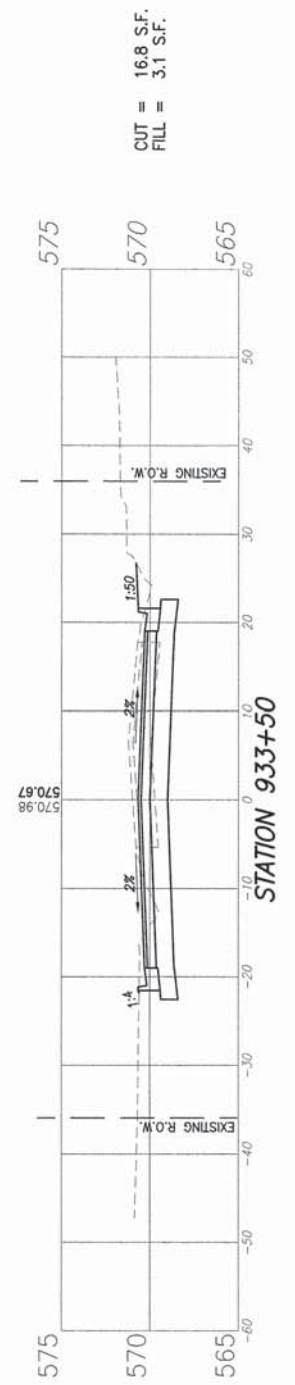
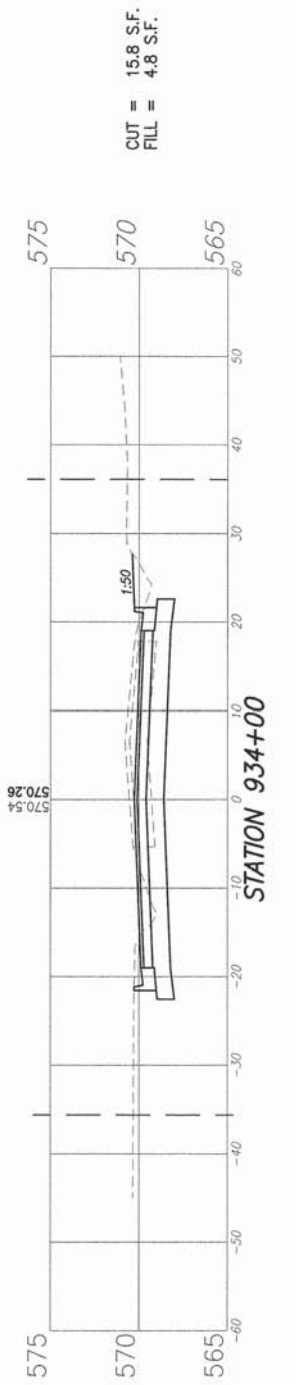
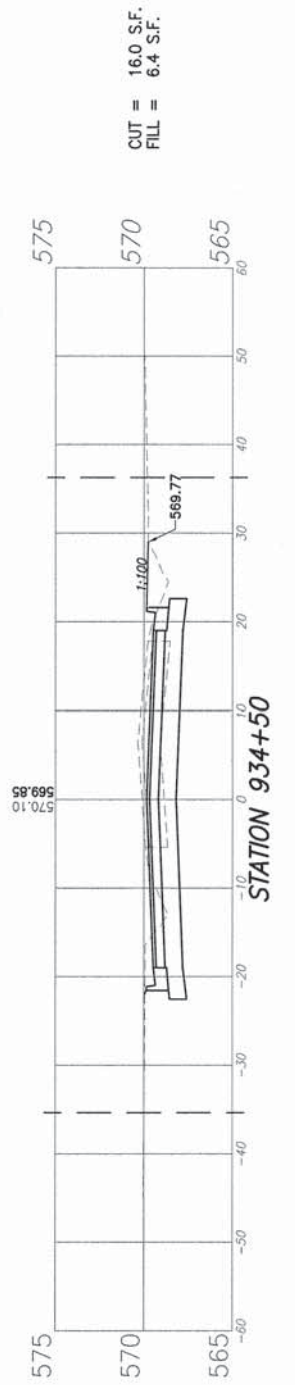
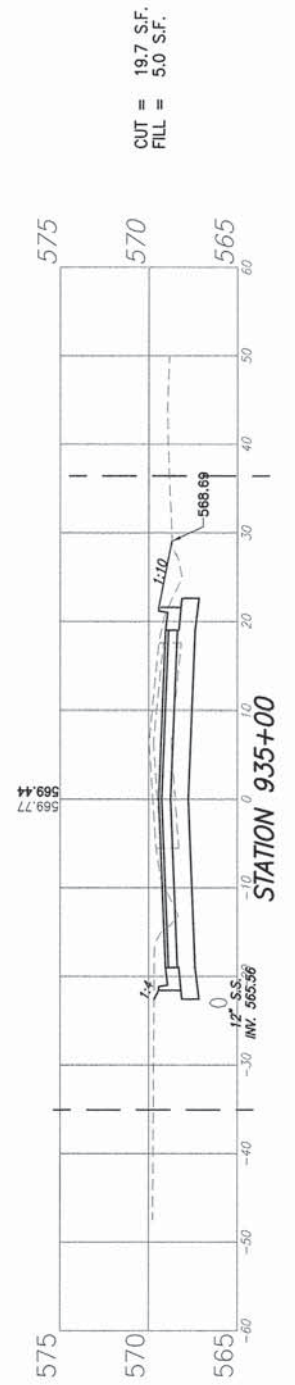
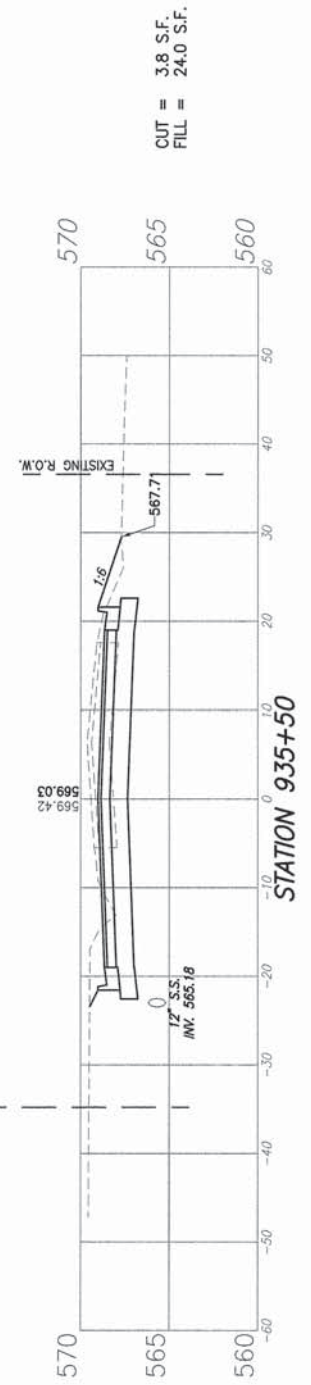
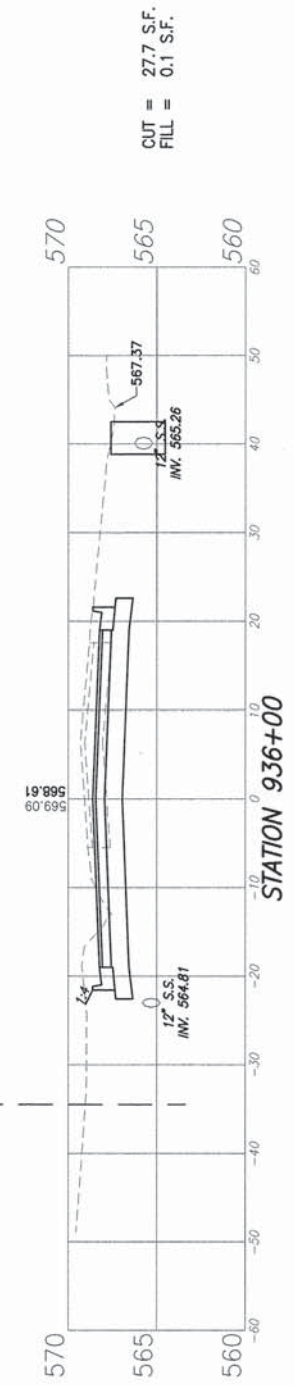
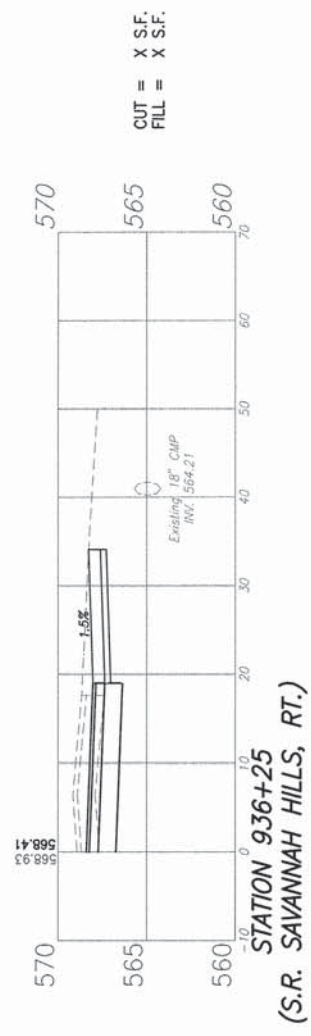
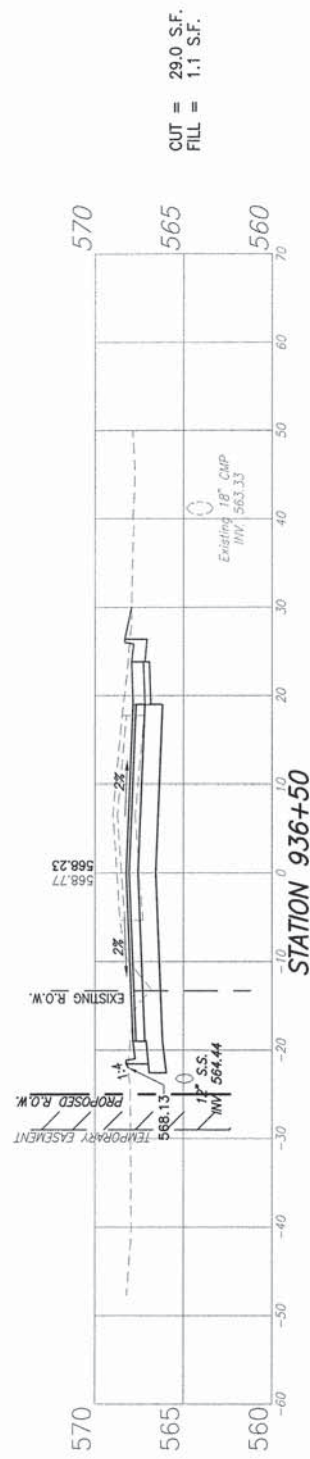


CUT = -0 S.F.
FILL = -0 S.F.

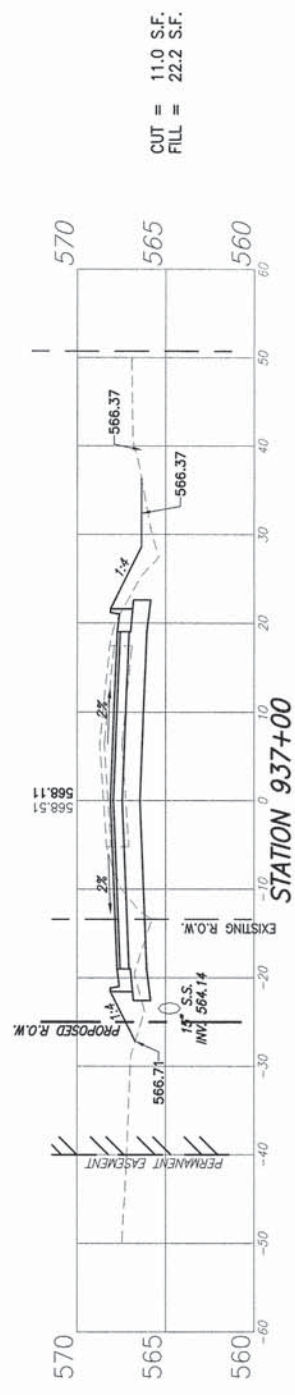
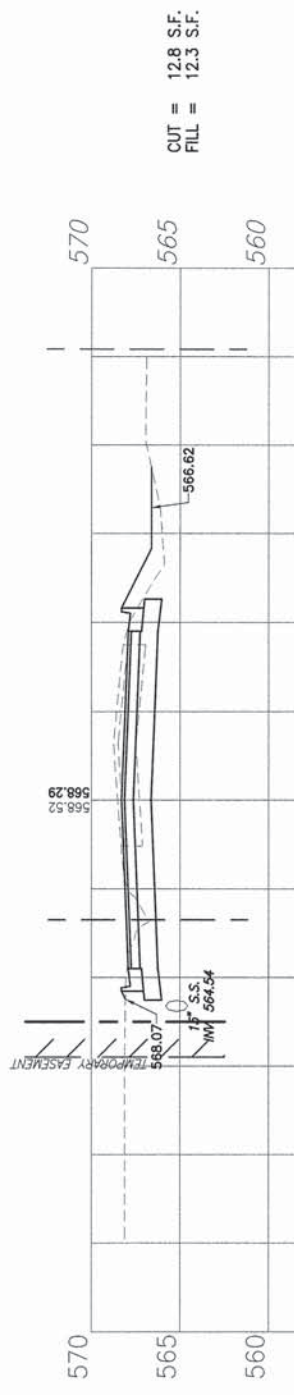
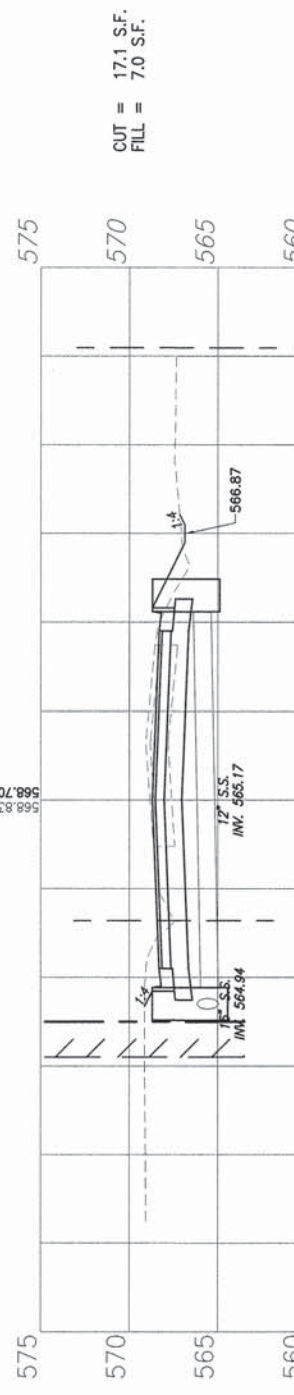
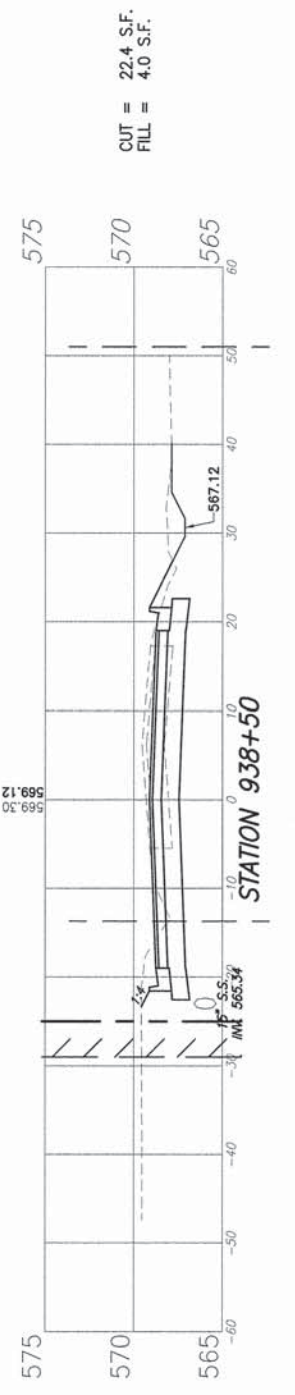
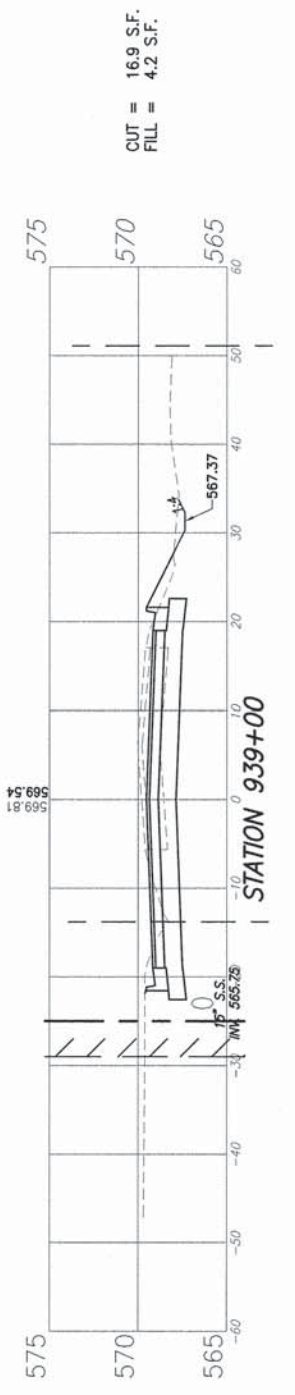
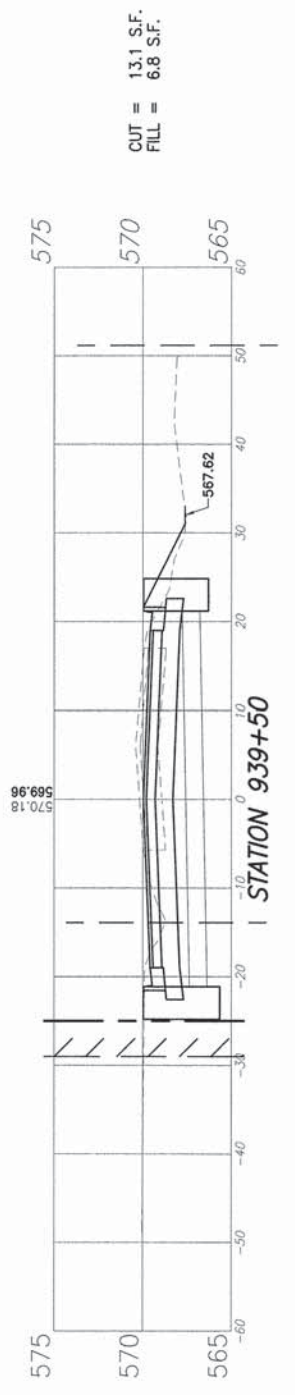
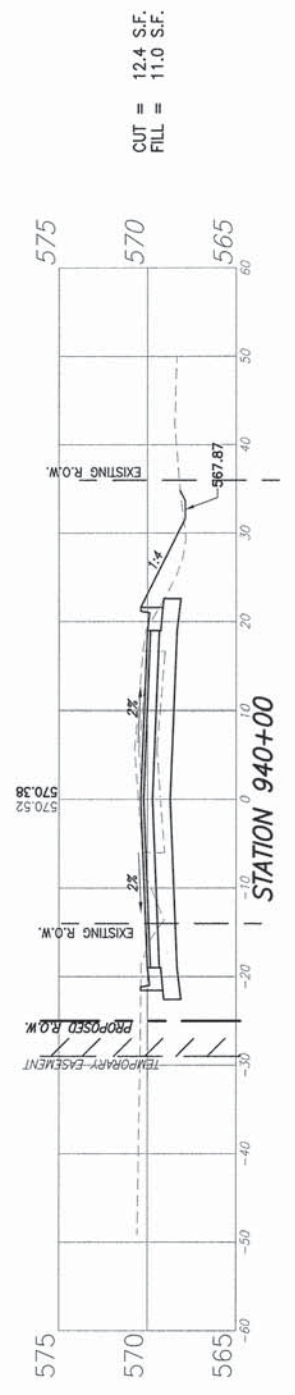
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	32
FEDERAL AID PROJECT		CONTRACT 97593		



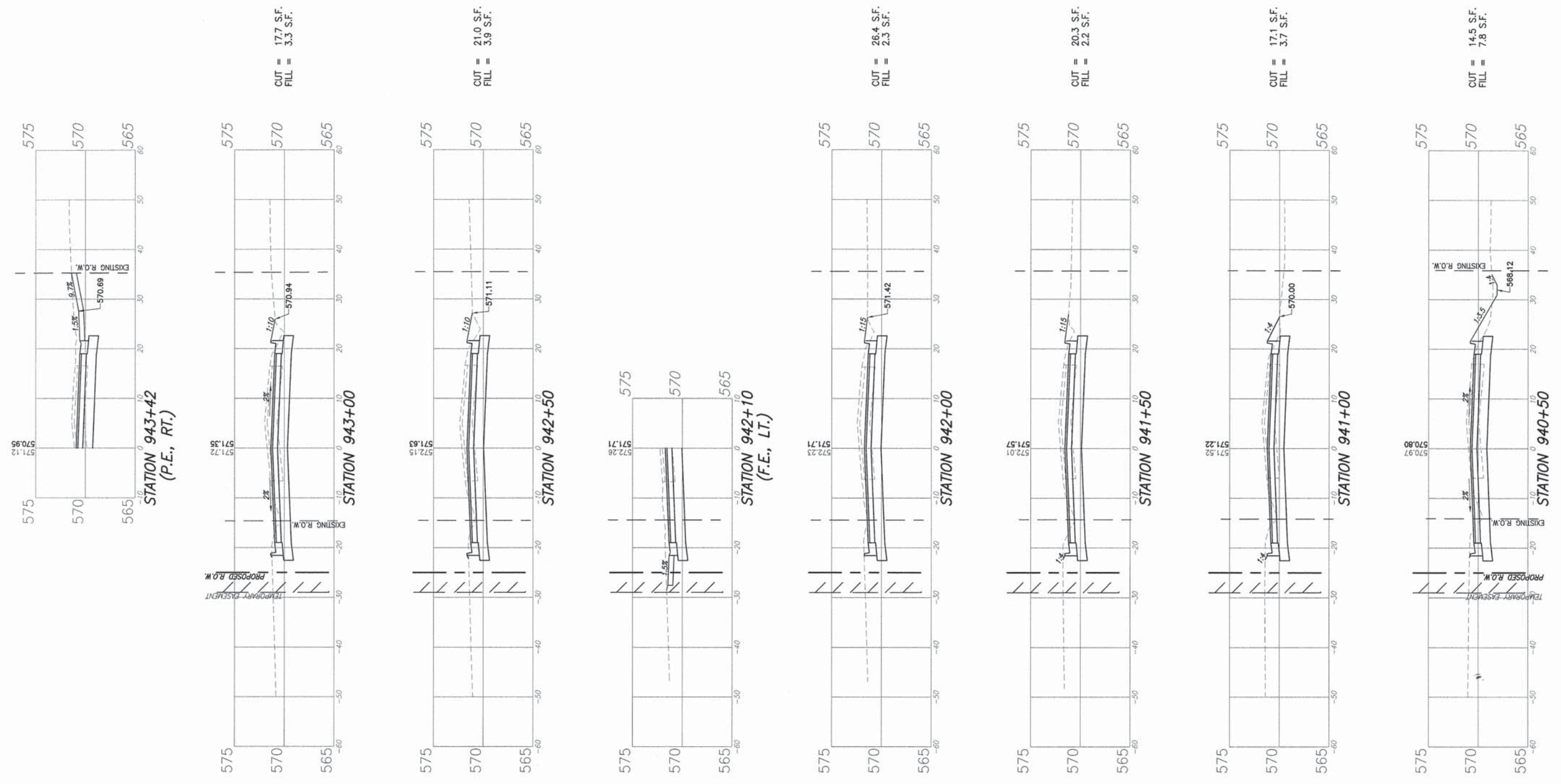
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	33
FEDERAL AID PROJECT		CONTRACT 97593		



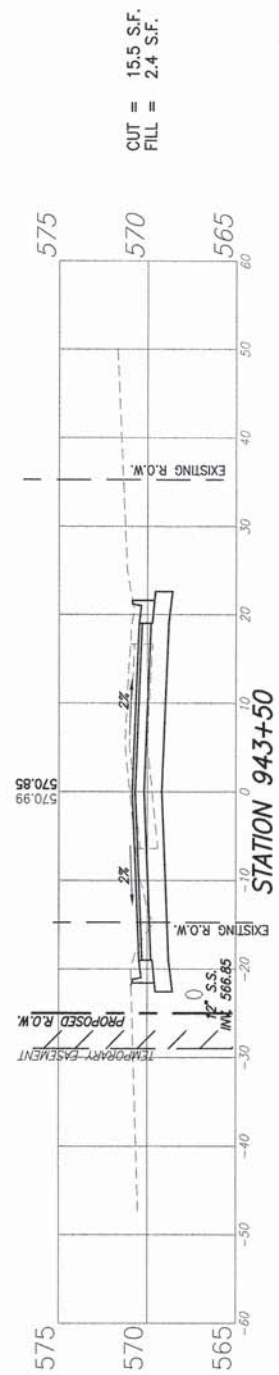
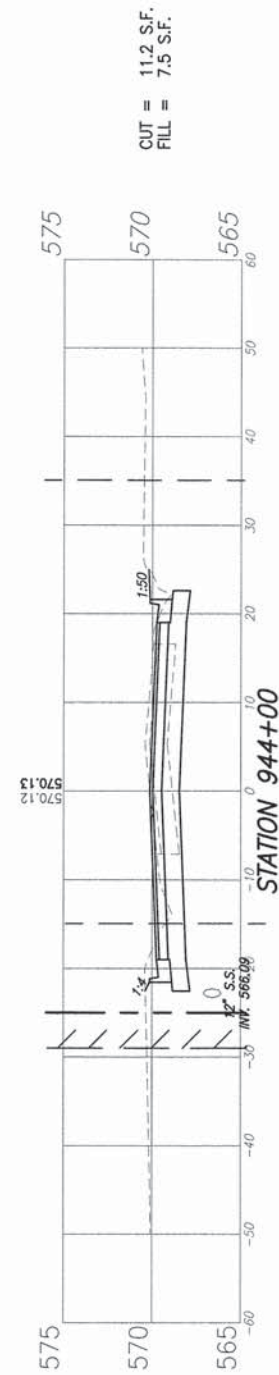
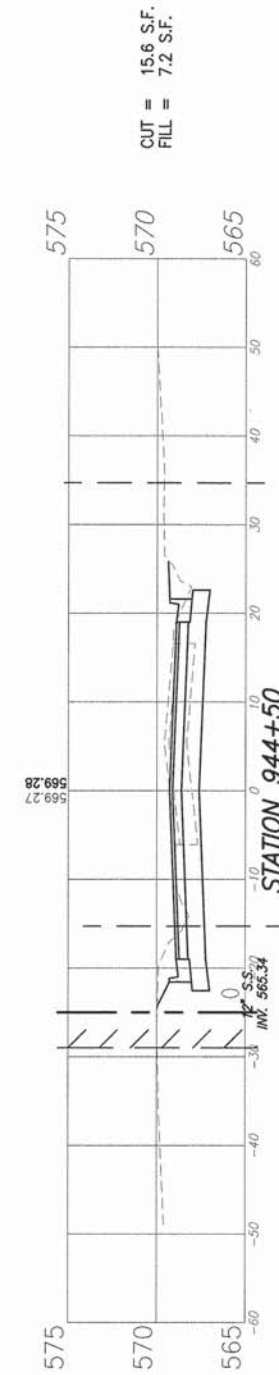
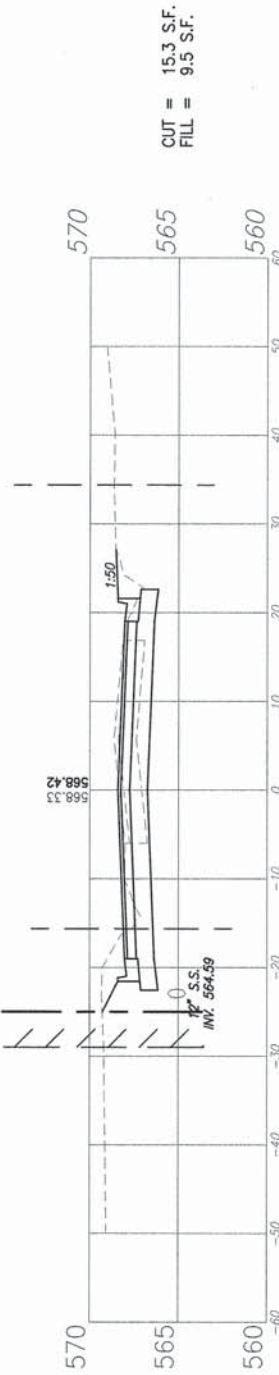
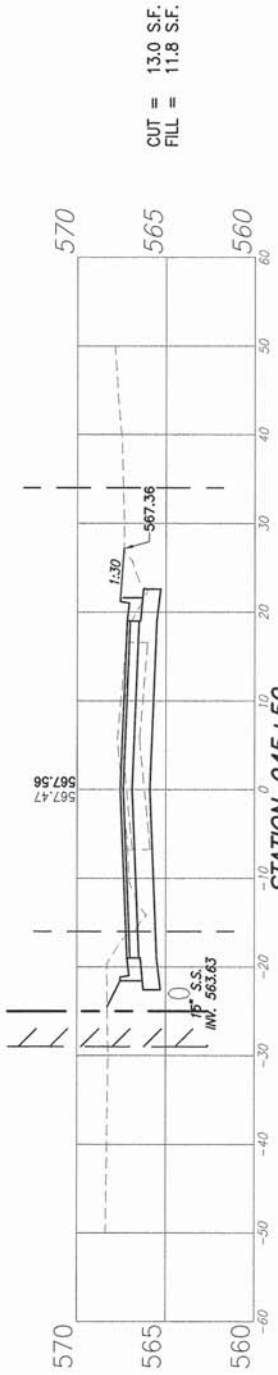
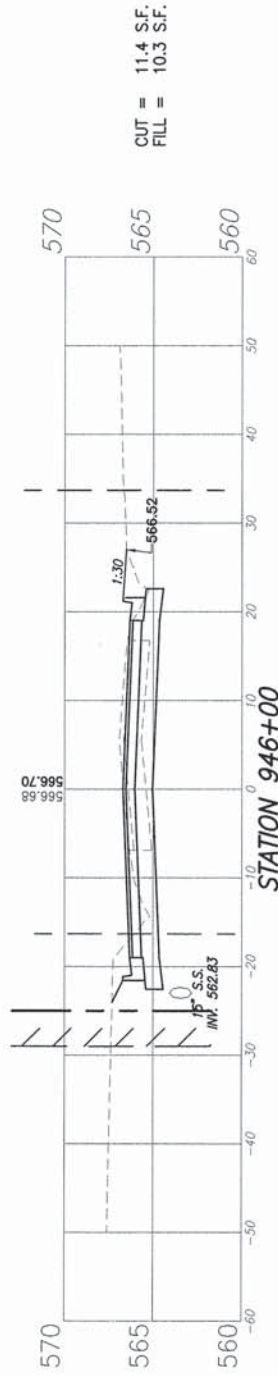
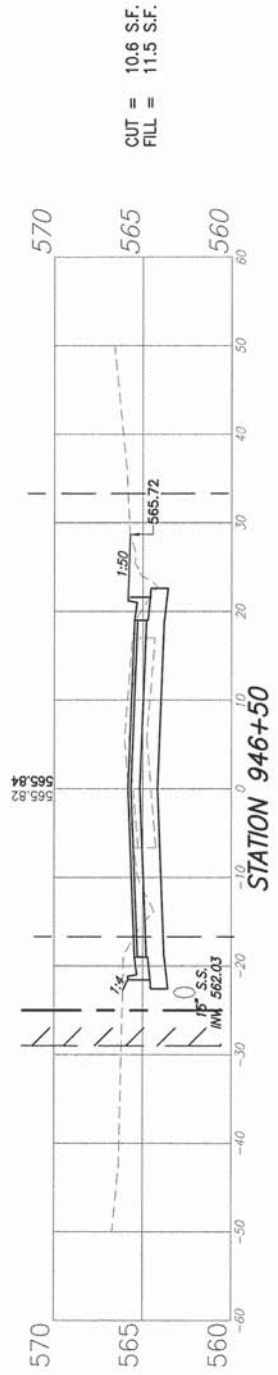
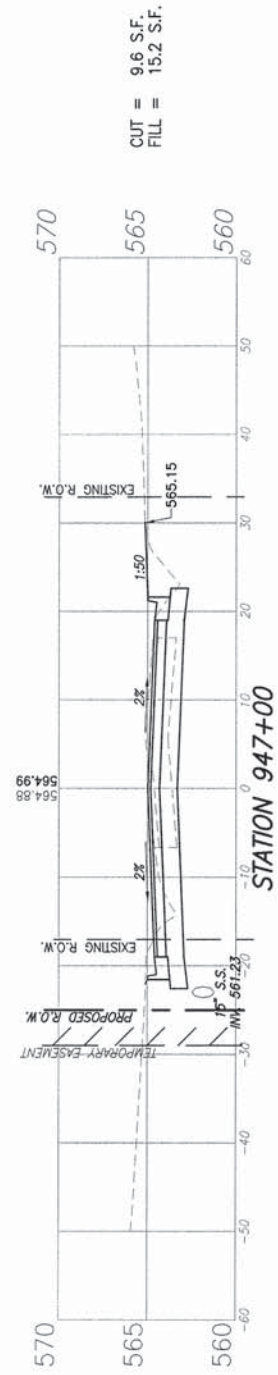
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	34
FEDERAL AID PROJECT		CONTRACT 97593		



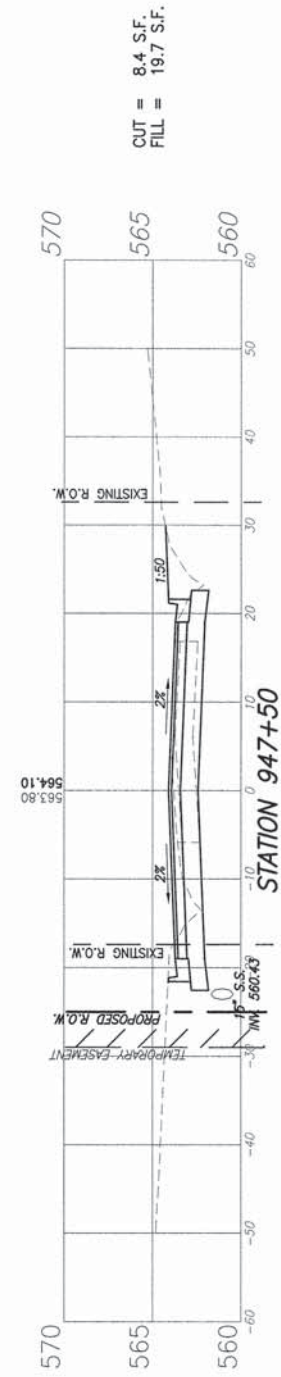
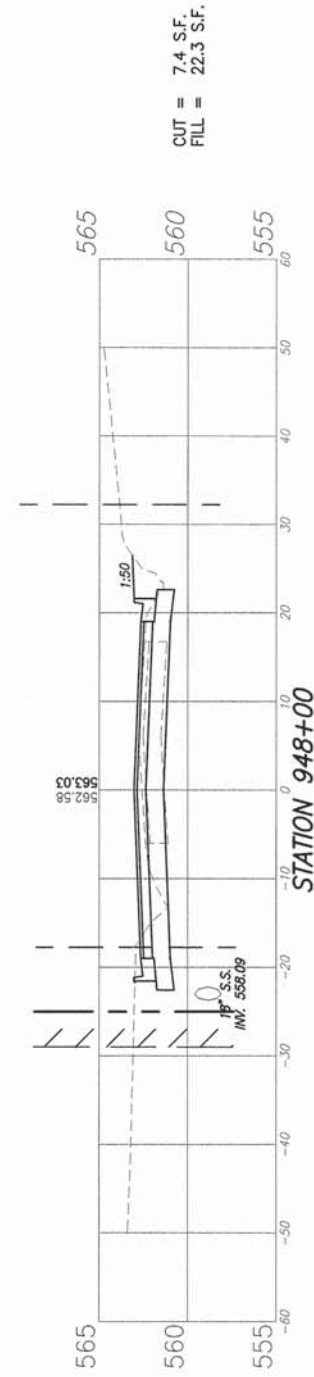
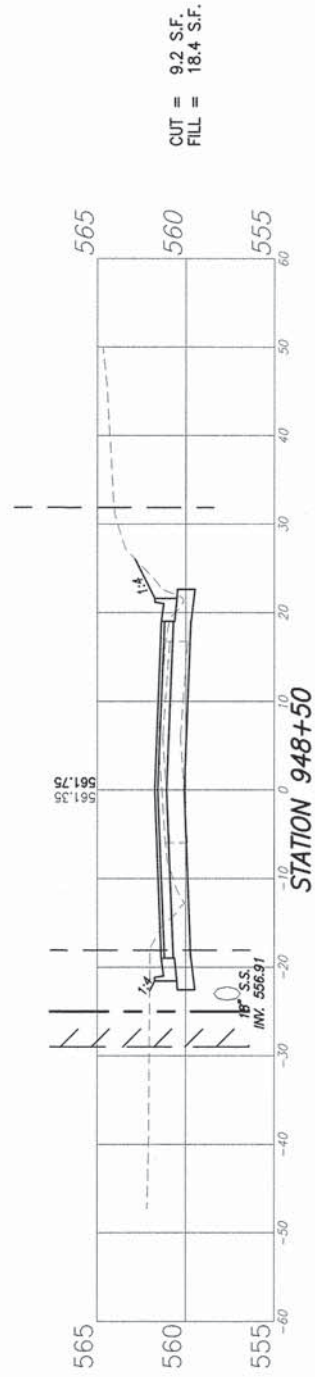
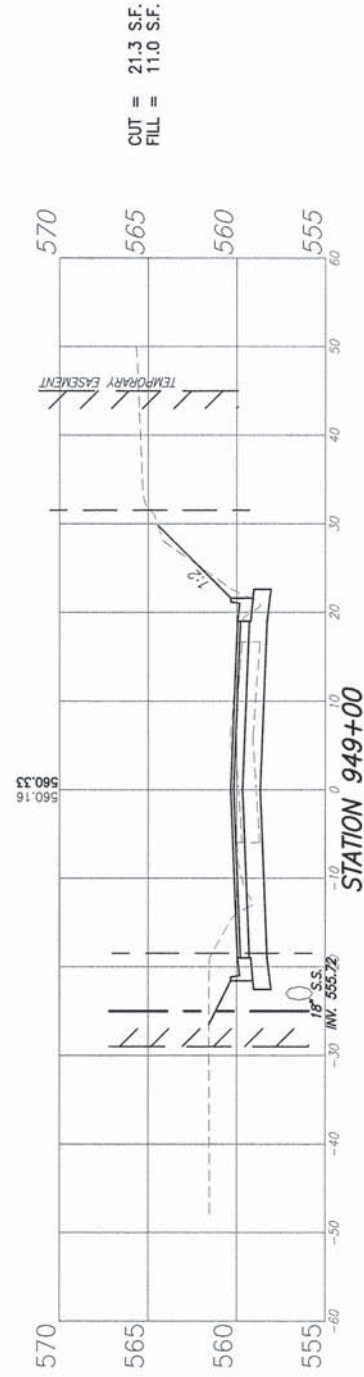
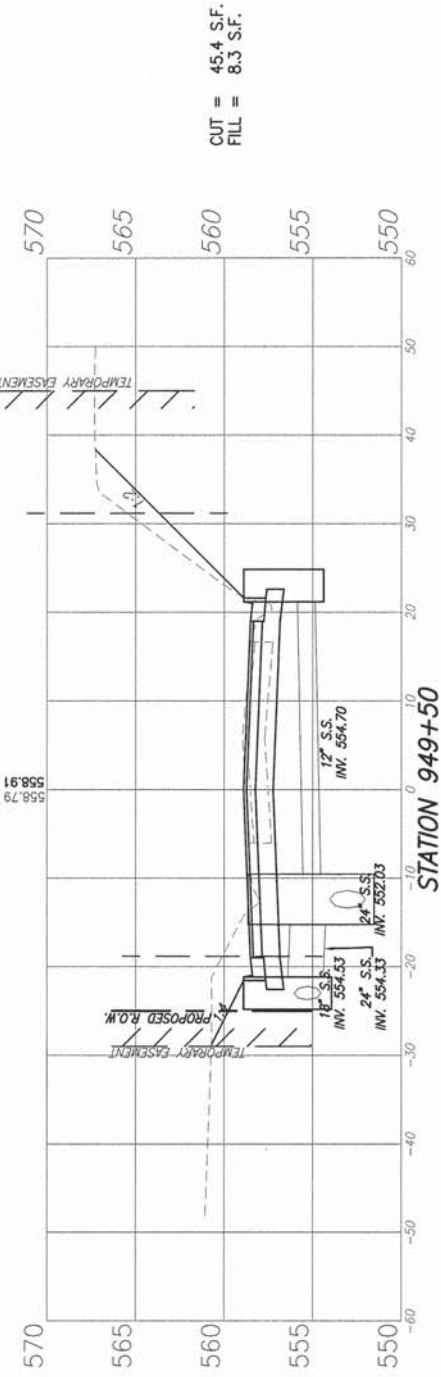
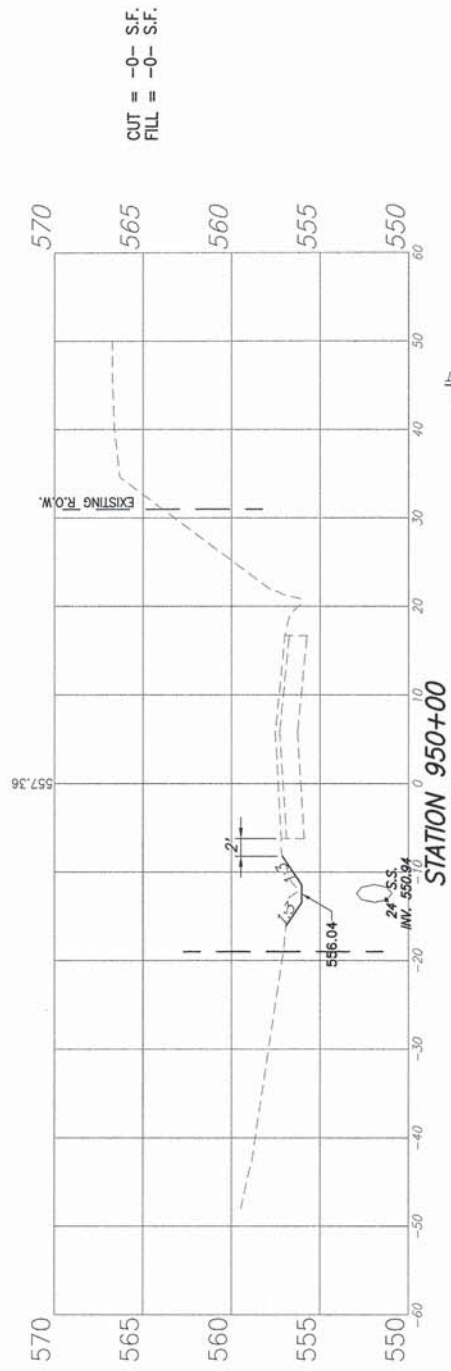
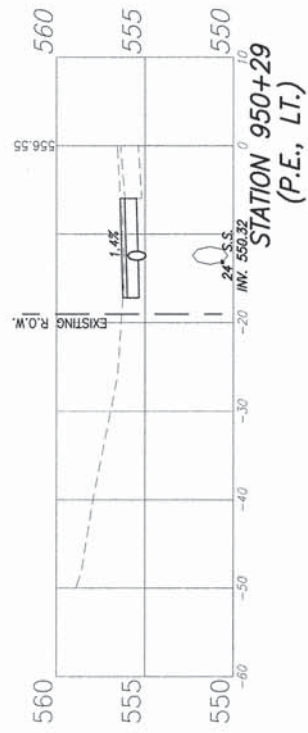
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	35
FEDERAL AID PROJECT		CONTRACT 97593		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	36
FEDERAL AID PROJECT		CONTRACT 97593		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	37
FEDERAL AID PROJECT		CONTRACT 97593		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	11-00059-03-PV	ST. CLAIR	38	38
FEDERAL AID PROJECT		CONTRACT 97593		

