

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
LOCAL AGENCY PROJECT

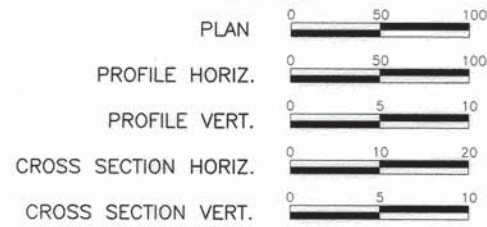
SAFE ROUTES TO SCHOOL  
VARIOUS STREETS  
SECTION 12-00008-00-SW  
PROJECT NO. SRTS-4009(154)  
VILLAGE OF SMITHTON, ILLINOIS  
ST. CLAIR COUNTY, ILLINOIS  
JOB NO. C-98-345-12

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
XXXX	12-00008-00-SW	ST. CLAIR	33	1
FEDERAL AID PROJECT		CONTRACT 97575		

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES, GENERAL NOTES & HIGHWAY STANDARDS
- 3.-4. TYPICAL SECTIONS
- 5.-6. CONSTRUCTION SCHEDULES
- 7.-16. PLAN AND PROFILES
17. STORM SEWER PROFILES
- 18.-19. MISCELLANEOUS DETAILS
- 20.-33. CROSS SECTIONS

SCALES:



SANDROCK ROAD

ROADWAY DESIGNATION: LOCAL ROAD  
DESIGN SPEED: 25 M.P.H  
ADT: CURRENT (2013) 450  
20-YEAR (2033) 550

MAIN STREET (IL RTE 159)

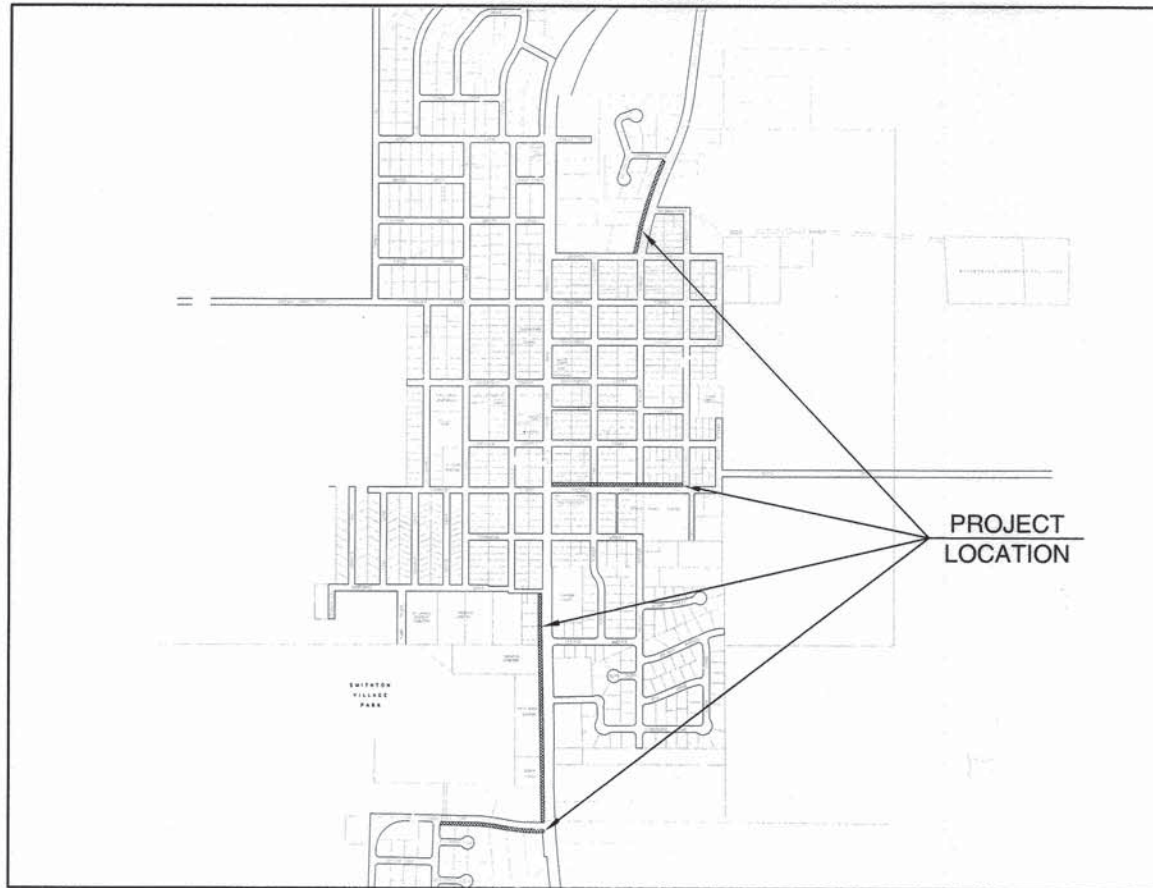
ROADWAY DESIGNATION: MINOR ARTERIAL  
DESIGN SPEED: 35 M.P.H  
ADT: CURRENT (2013) 6,600  
20-YEAR (2033) 8,000

SOUTH STREET

ROADWAY DESIGNATION: LOCAL ROAD  
DESIGN SPEED: 25 M.P.H  
ADT: CURRENT (2013) 450  
20-YEAR (2033) 550

HICKORY STREET

ROADWAY DESIGNATION: LOCAL ROAD  
DESIGN SPEED: 25 M.P.H  
ADT: CURRENT (2013) 450  
20-YEAR (2033) 550



LOCATION MAP

NOT TO SCALE

▨ = IMPROVEMENT AREA

SANDROCK ROAD	813.73 FT. = 0.154 MILES
MAIN STREET (IL RTE 159)	1797.56 FT. = 0.340 MILES
SOUTH STREET	1141.12 FT. = 0.216 MILES
HICKORY STREET	776.34 FT. = 0.147 MILES
NET LENGTH OF IMPROVEMENT 4,528.75 FT. = 0.858 MILES	



LOCATION OF PROJECT INDICATED THUS: ▨

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED 2/5/2015 DATE  
*Ronald E. Keen*  
MAYOR, VILLAGE OF SMITHTON

PASSED February 19, 2015 DATE  
*Dea A. Kevins*  
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW 2-19-15 DATE  
*Christopher A. Sudd*  
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



*Christopher A. Sudd*

2/5/15

1/29/15



PREPARED BY:  
**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  
ILL. LICENSE NO. 184-00287

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-0008-00-SW	ST. CLAIR	33	2
FEDERAL AID PROJECT		CONTRACT 97575		

**SUMMARY OF QUANTITIES**

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18
20200100	EARTH EXCAVATION	CU YD	362
20800150	TRENCH BACKFILL	CU YD	32
25000100	SEEDING, CLASS 1	ACRE	0.61
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	55
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55
25100115	MULCH, METHOD 2	ACRE	0.61
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	61
28000500	INLET AND PIPE PROTECTION	EACH	15
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	22
28200200	FILTER FABRIC	SQ YD	22
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	192
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	20
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	25
42001300	PROTECTIVE COAT	SQ YD	249
* 40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	21
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	324
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	17,524
42400800	DETECTABLE WARNINGS	SQ FT	274
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	182
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	61
44000600	SIDEWALK REMOVAL	SQ FT	674
50105220	PIPE CULVERT REMOVAL	FOOT	47
54200220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	126
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	286
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	104
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	57
550A2370	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 27"	FOOT	12
550A4300	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	7
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	46
550B0120	STORM SEWERS, CLASS B, TYPE 1 24"	FOOT	8
55100400	STORM SEWER REMOVAL, 10"	FOOT	15
55100500	STORM SEWER REMOVAL, 12"	FOOT	11
55100700	STORM SEWER REMOVAL, 15"	FOOT	11
55101200	STORM SEWER REMOVAL, 24"	FOOT	75
60219000	MANHOLES, TYPE A, 4' DIAMETER, TYPE 8 GRATE	EACH	1
60222000	MANHOLES, TYPE A, 5' DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1
60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	3
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	6
60240215	INLETS, TYPE B, TYPE 1 FRAME CLOSED LID	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	1
60500060	REMOVING INLETS	EACH	2
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	1085
* 66400105	CHAIN LINK FENCE, 4'	FOOT	30
* 66900200	NON-SPECIAL WASTE DISPOSAL	C.Y.	24
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1
67100100	MOBILIZATION	L SUM	1

\* SPECIALTY ITEM

**SUMMARY OF QUANTITIES**

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	37
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	82
XX003424	CONNECTION TO EXISTING STRUCTURES	EACH	2
XX005721	WATER METER TO BE ADJUSTED	EACH	2
X0322024	TRENCH DRAIN	EACH	2
X0323859	DOWNSPOUT CONNECTION	EACH	3
X6024242	INLETS, SPECIAL NO. 1	EACH	1
X6024244	INLETS, SPECIAL NO. 2	EACH	1
X6024246	INLETS, SPECIAL NO. 3	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
- THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ANY ROCKS OR FOREIGN DEBRIS.
- ALL PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE A SAW CUT AT THE EDGE OF PAVEMENT TO PROVIDE A SMOOTH EDGE TO CONSTRUCT COMBINATION CONCRETE CURB AND GUTTER. THE COST OF SAWING THIS EDGE SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB AND GUTTER.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.  

<u>APPLICATION RATES</u>	
MULCH METHOD 2	2 Tons/acre
NITROGEN FERTILIZER NUTRIENT	90 Lbs/acre
PHOSPHORUS FERTILIZER NUTRIENT	90 Lbs/acre
POTASSIUM FERTILIZER NUTRIENT	90 Lbs/acre
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING THERMOPLASTIC PAVEMENT MARKINGS DURING CURB RAMP RECONSTRUCTION. ANY MARKINGS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS/HER OWN EXPENSE.
- "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. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"x48".
- ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 1 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.
- THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS PRIOR TO REMOVAL AND REPLACEMENT OF DRIVEWAYS.
- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AND FACE OF CURBS.
- LANDSCAPING ITEMS WITHIN THE LIMITS OF CONSTRUCTION WHICH MUST BE REMOVED SHALL BE SALVAGED FOR RE-USE OR DISPOSAL AS DIRECTED BY THE ENGINEER. REMOVAL AND/OR SALVAGE OF LANDSCAPING ITEMS SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- ALL EXISTING SIGNS WHICH INTERFERE WITH THE IMPROVEMENTS NOT NOTED FOR REMOVAL SHALL BE REMOVED AND REINSTALLED AT THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER IN THE FIELD. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. ANY DAMAGE TO THE SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- AN ESTIMATED 25 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 THE CONSTRUCTION OPERATIONS.
- ANY WASTE GENERATE AS A SPECIAL WASTE OR A WASTE NOT CERTIFIED AS A NON-SPECIAL WASTE FROM THIS PROJECT WOULD BE MANIFESTED OFF-SITE USING THE GENERATOR NUMBER ASSOCIATED WITH ST. CLAIR COUNTY. THE GENERATOR NUMBER FOR ST. CLAIR COUNTY IS 1638995004.
- ALL PIPE DRAINS/ROOF DRAINS, BOTH EXPOSED AND UNEXPOSED THAT DISCHARGE INTO EXISTING DITCHES OR TO THE EDGE OF EXISTING ROADWAY SHALL BE DISCHARGED TO THE NEAREST INLET. THE PIPE SHALL BE INSTALLED AT A MINIMUM OF 0.50% IN AREAS WHERE NO STORM SEWER IS PRESENT. PIPE DRAINS/ROOF DRAINS SHALL BE PLACED UNDER PROPOSED SIDEWALK AND DAYLIGHTED. ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO COMPLETE THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DOWNSPOUT CONNECTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**COMMITMENTS**

NONE

**APPLICABLE HIGHWAY STANDARDS**

280001-07	604036-03
424001-08	606001-06
602306-03	664001-02
602401-03	701501-06
602601-03	701801-05
602701-02	701901-04
604001-04	

**UTILITY TYPE**

GAS/ELECTRIC
WATER
TELEPHONE
CABLE
SANITARY SEWER
STORM SEWER

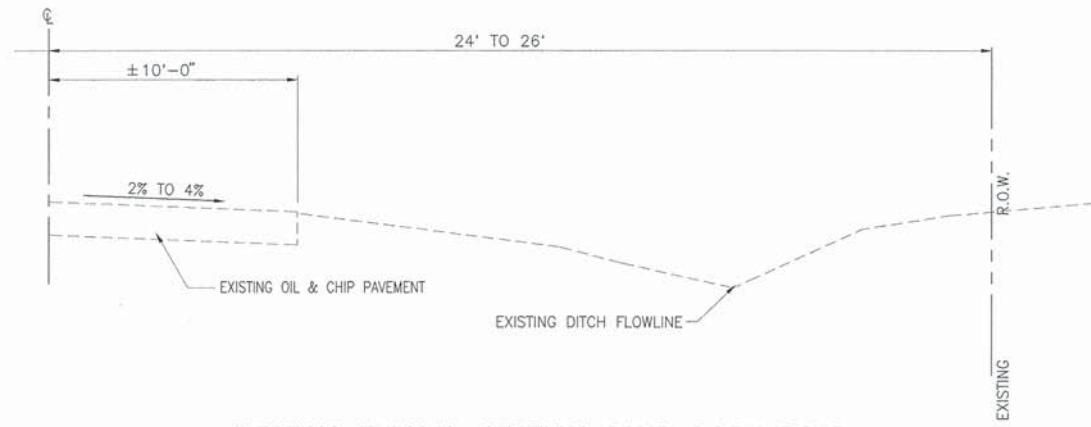
**NAME OF UTILITY**

AMEREN IP, BELLEVILLE, ILLINOIS
VILLAGE OF SMITHTON, SMITHTON, ILLINOIS
AT&T, O'FALLON, ILLINOIS
MEDIACOM, MARION, ILLINOIS
VILLAGE OF SMITHTON, SMITHTON, ILLINOIS
VILLAGE OF SMITHTON, SMITHTON, ILLINOIS

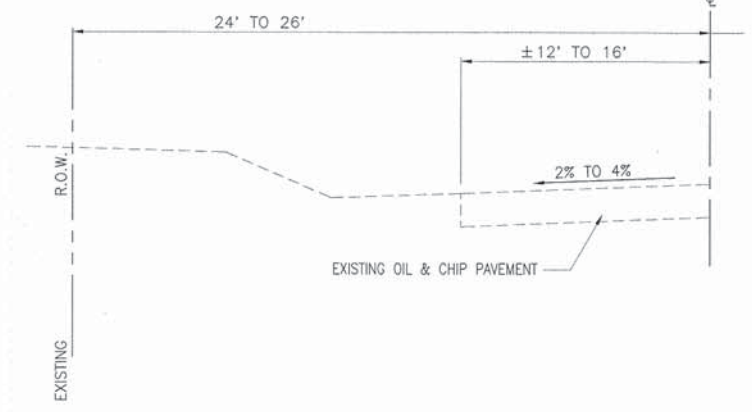
**PHONE NUMBER**

618-236-4305
618-233-4180
618-628-2957
618-534-3958
618-233-4180
618-233-4180

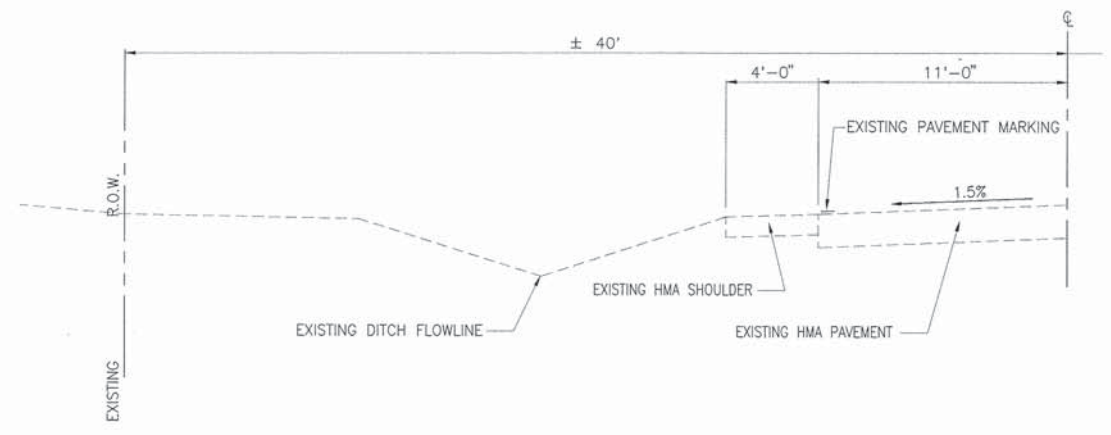
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	3
FEDERAL AID PROJECT		CONTRACT 97575		



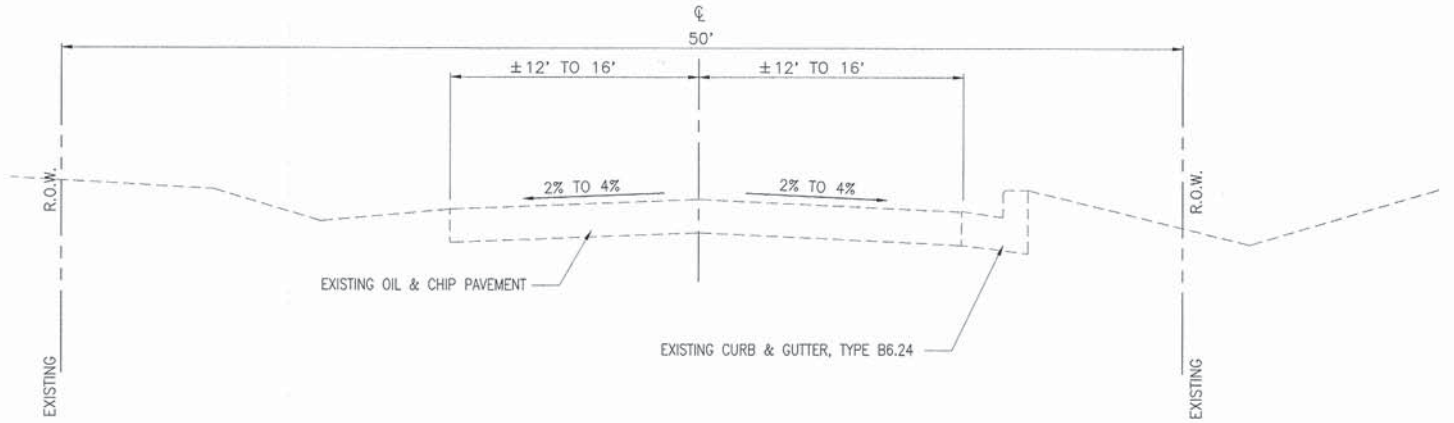
**EXISTING TYPICAL SECTION SAND ROCK ROAD**  
 N.T.S.  
 STA. 200+26.61 TO 208+40.34



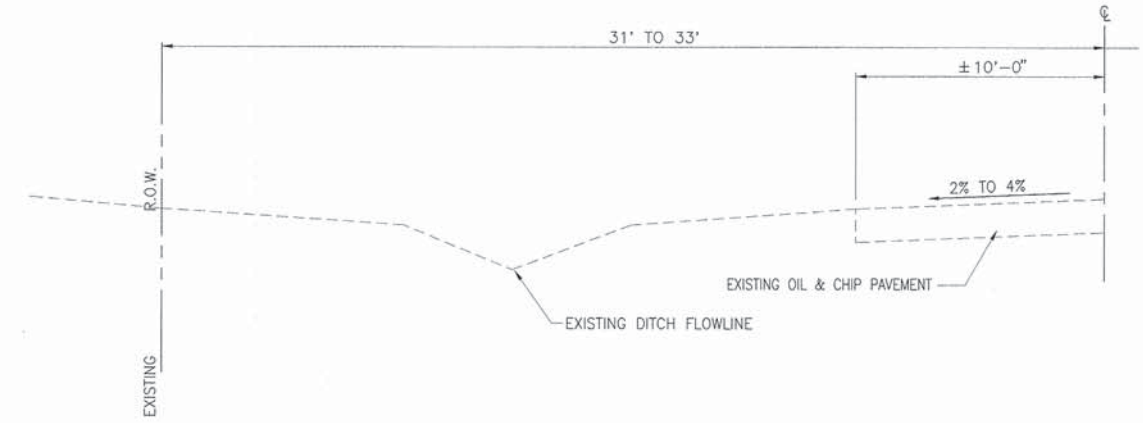
**EXISTING TYPICAL SECTION SOUTH STREET**  
 N.T.S.  
 STA. 1+00.00 TO 4+44.00  
 STA. 5+00.00 TO 8+46.00



**EXISTING TYPICAL SECTION MAIN STREET (IL ROUTE 159)**  
 N.T.S.  
 STA. 100+61.97 TO 118+59.53



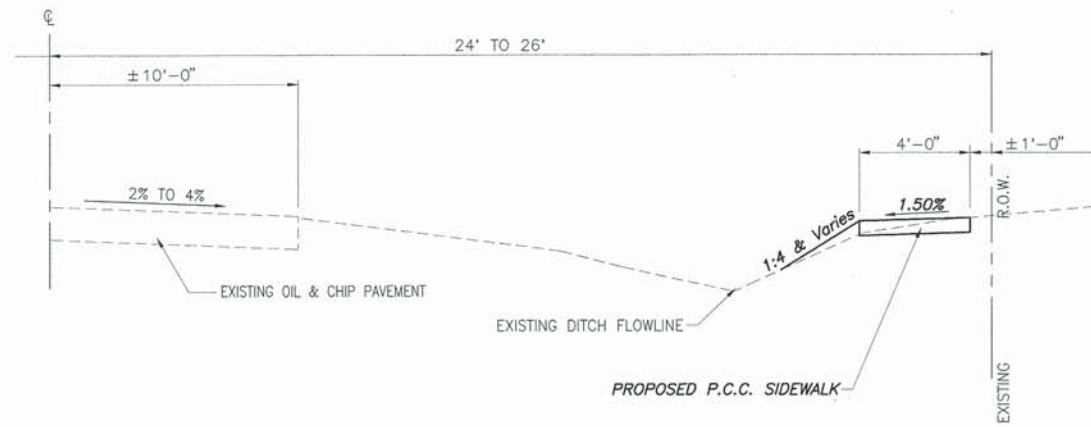
**EXISTING TYPICAL SECTION SOUTH STREET**  
 N.T.S.  
 STA. 9+00.00 TO 12+46



**EXISTING TYPICAL SECTION HICKORY STREET**  
 N.T.S.  
 STA. 300+00 TO 307+76.34

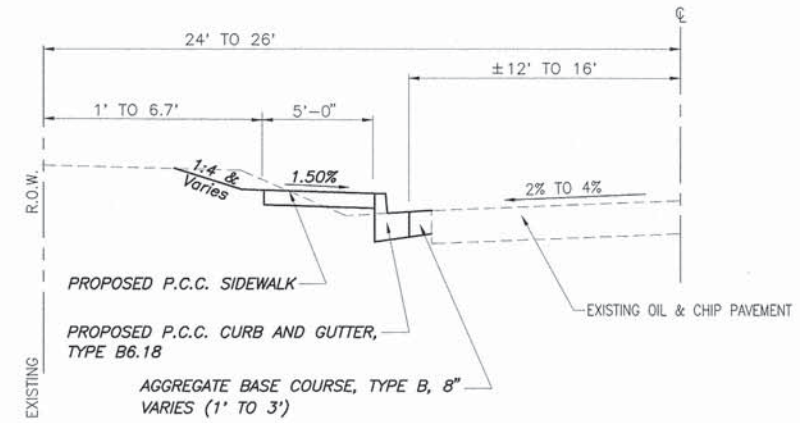
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	4
FEDERAL AID PROJECT		CONTRACT 97575		



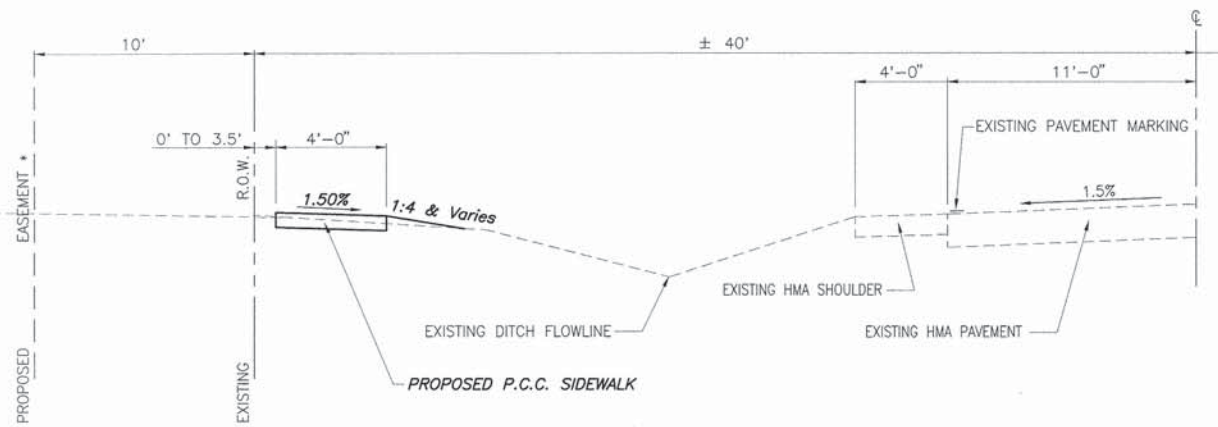
**PROPOSED TYPICAL SECTION SAND ROCK ROAD**

N.T.S.  
STA. 200+26.61 TO 208+40.34



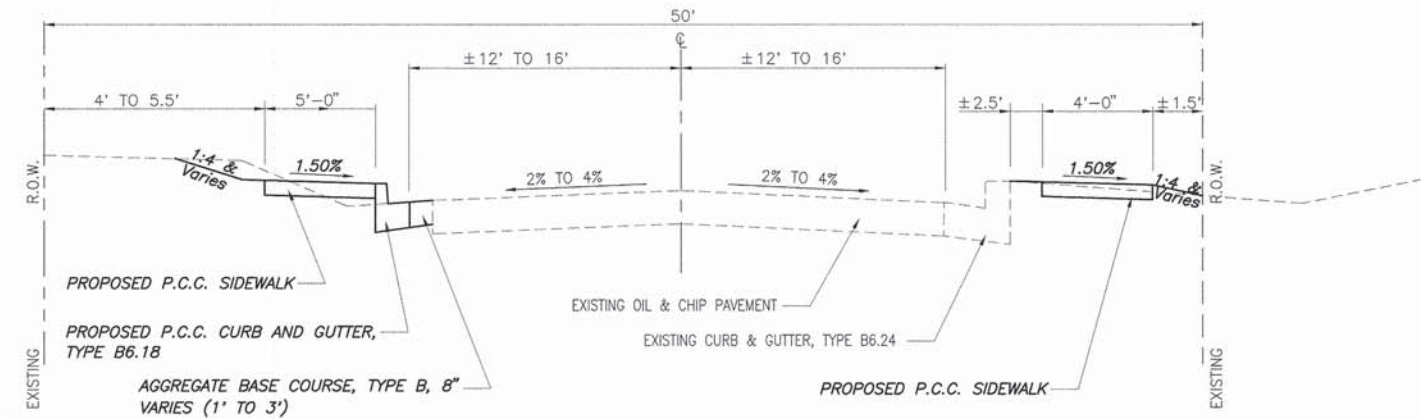
**PROPOSED TYPICAL SECTION SOUTH STREET**

N.T.S.  
STA. 1+00.00 TO 4+45.05  
STA. 5+05.00 TO 8+46.00



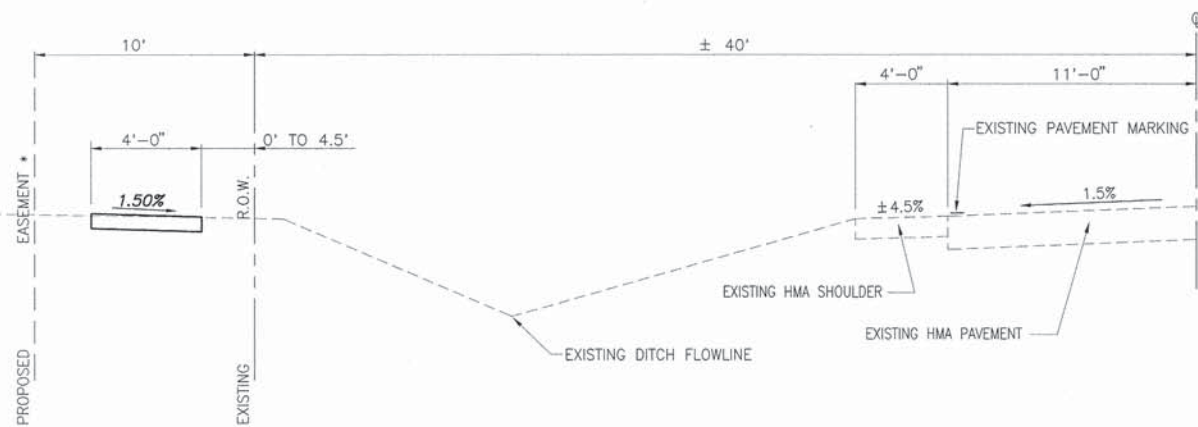
**PROPOSED TYPICAL SECTION MAIN STREET (IL ROUTE 159)**

N.T.S.  
STA. 111+33.00 TO 118+59.53  
\* PROPOSED EASEMENT STA. 111+33.00 TO 111+95.79



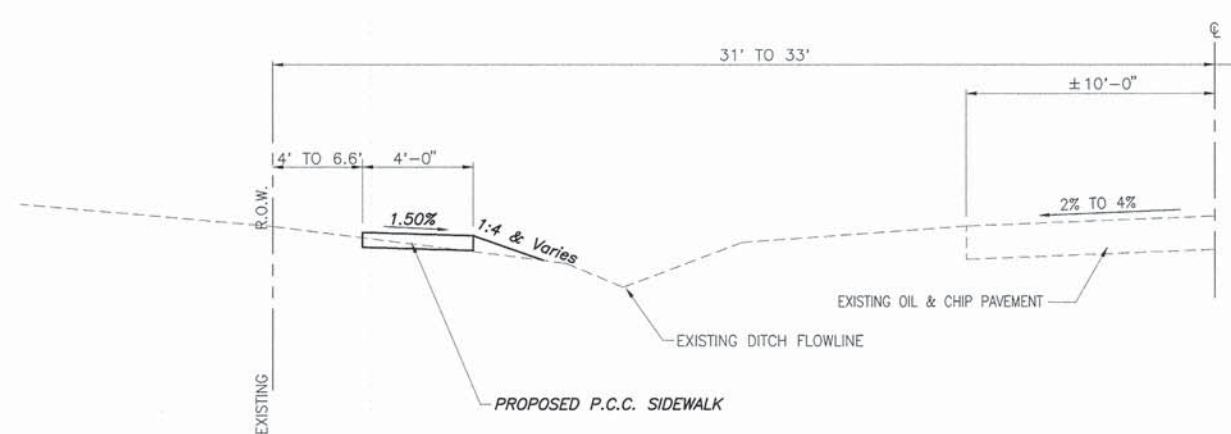
**PROPOSED TYPICAL SECTION SOUTH STREET**

N.T.S.  
STA. 9+00.00 TO 12+46.12



**PROPOSED TYPICAL SECTION MAIN STREET (IL ROUTE 159)**

N.T.S.  
STA. 100+61.97 TO 111+33.00  
\* PROPOSED EASEMENT STA. 100+61.97 TO 111+33.00



**PROPOSED TYPICAL SECTION HICKORY STREET**

N.T.S.  
STA. 300+00 TO 307+76.34

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**PCC SIDEWALK SCHEDULE**

LOCATION	PCC SIDEWALK, 4"	PCC DRIVEWAY PAVEMENT, 6"	DETECTABLE WARNINGS
	SQ. FT.	SQ. YD.	
<b>SAND ROCK ROAD</b>			
STA. 200+26.61			8
STA. 200+26.61 TO 207+02	2,722		
STA. 207+02 TO 207+26		10.7	
STA. 207+26 TO 208+40.34	503		
STA. 208+40.34			10
<b>MAIN STREET (IL RTE 159)</b>			
STA. 100+61.97			10
STA. 100+61.97 TO 103+25	1,062		
STA. 103+25 TO 103+59		15.1	
STA. 103+59 TO 104+29	280		
STA. 104+29 TO 104+62		26.6	
STA. 104+62 TO 106+55	1,024		
STA. 106+55 TO 106+79		10.7	
STA. 106+79 TO 111+11	1,738		
STA. 111+11 TO 111+42		13.7	
STA. 111+42 TO 113+00	168		
STA. 113+00 TO 113+12		5.3	
STA. 113+12 TO 114+24	448		
STA. 114+24 TO 114+69		44.0	
STA. 114+69 TO 115+54	340		
STA. 115+54 TO 115+66		5.3	
STA. 115+66 TO 115+80	56		
STA. 115+80 TO 115+98		8.0	
STA. 115+98 TO 116+55	228		
STA. 116+55 TO 116+96		18.2	
STA. 116+96 TO 118+25	516		
STA. 118+25			8
STA. 118+55			8
STA. 118+55 TO 118+59.53	16		
<b>SOUTH STREET/MAIN STREET INTERSECTION</b>			
NW QUAD	16		8
SW QUAD	56		16
SE QUAD	160		16
<b>SOUTH STREET</b>			
STA. 1+00 TO 2+48	740		
STA. 2+48 TO 2+68		22.0	
STA. 2+68 TO 2+90	110		
STA. 2+90 TO 3+90		55.5	
STA. 4+39			10
STA. 3+90 TO 4+44	270		
<b>SOUTH STREET/SMITH STREET INTERSECTION</b>			
SW QUAD	24		8
SE QUAD	30		16
<b>SOUTH STREET</b>			
STA. 5+00 TO 6+00	500		
STA. 5+15			13
STA. 6+00 TO 6+56		31.1	
STA. 6+56 TO 8+46	740		
STA. 8+29			21
<b>SOUTH STREET/HICKORY STREET INTERSECTION</b>			
SE QUAD			17
STA. 9+00 TO 9+96 LT	480		
STA. 9+11 LT			20
STA. 9+00 TO 10+83 RT	732		
STA. 9+96 TO 10+21		13.9	
STA. 10+21 TO 10+54	165		
STA. 10+54 TO 10+78		13.3	
STA. 10+78 TO 12+46	840		
STA. 10+88 TO 12+23 RT	540		
STA. 12+23 RT			8
STA. 12+27 LT			21
<b>SOUTH STREET/SMITH STREET INTERSECTION</b>			
NE QUAD	28		8
SW QUAD	24		8
SE QUAD	68		16
<b>HICKORY STREET</b>			
STA. 300 TO TO 302+45	1040		
STA. 300+03			8
STA. 300+10			8
STA. 302+45 TO 302+59		6.2	
STA. 302+59 TO 303+12	212		
STA. 303+12 TO 303+25		5.8	
STA. 303+25 TO 303+36	56		
STA. 303+36 TO 303+48		5.3	
STA. 303+48 TO 305+01	612		
STA. 305+01 TO 305+16		6.7	
STA. 305+16 TO 305+65	196		
STA. 305+65 TO 305+80		6.7	
STA. 305+80 TO 307+76	784		
STA. 307+76			8
<b>TOTAL</b>	<b>17,524</b>	<b>324.1</b>	<b>274</b>

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
SAND ROCK ROAD	26	20	66	-46
MAIN STREET (IL RTE 159)	100	75	68	+7
SOUTH STREET	199	150	17	+133
HICKORY STREET	37	28	50	-22
<b>TOTAL</b>	<b>362</b>	<b>272</b>	<b>201</b>	<b>+71</b>

NOTE: EXISTING OIL & CHIP AND AGGREGATE INCLUDED IN EARTH EXCAVATION.

**SEEDING / EROSION CONTROL**

LOCATION	SEEDING CLASS 1	MULCH METHOD 2	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING	INLET PROTECTION EACH
	ACRE	ACRE	NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND	POUND	
SAND ROCK ROAD STA. 200+26.61 TO 208+40.34	0.13	0.13	11.7	11.7	11.7	13	1
MAIN STREET (IL RTE 159) STA. 100+61.97 TO 118+59.53	0.23	0.23	20.7	20.7	20.7	23	3
SOUTH STREET STA. 1+00 TO 12+46	0.11	0.11	9.9	9.9	9.9	11	8
HICKORY STREET STA. 300+00 TO 307+76.39	0.14	0.14	12.6	12.6	12.6	14	3
<b>TOTAL</b>	<b>0.61</b>	<b>0.61</b>	<b>54.9</b>	<b>54.9</b>	<b>54.9</b>	<b>61</b>	<b>15</b>

**CURB AND GUTTER SCHEDULE**

LOCATION	C & G TYPE B6.18 FOOT
SAND ROCK ROAD STA. 200+23 LT TO 20+34 LT	11
<b>SOUTH STREET</b>	
STA. 1+00 TO 4+44	344
STA. 5+00 TO 8+46	346
STA. 9+00 TO 12+46	346
STA. 9+00 RT TO 9+21 RT	21
STA. 9+00 TO 12+46	9
<b>HICKORY STREET</b>	
STA. 307+76	8
<b>TOTAL</b>	<b>1085</b>

**PROTECTIVE COAT SCHEDULE**

LOCATION	PROTECTIVE COAT AREA SQ YD
<b>COMBINATION CURB AND GUTTER, B-6.18</b>	
SAND ROCK ROAD	3
SOUTH STREET	244
HICKORY STREET	2
<b>TOTAL</b>	<b>249</b>

**DRAINAGE REMOVAL SCHEDULE**

LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL, 10'	PIPE CULVERT REMOVAL, 12'	STORM SEWER REMOVAL, 10'	STORM SEWER REMOVAL, 12'	STORM SEWER REMOVAL, 15'	STORM SEWER REMOVAL, 24"	REMOVING INLETS EACH
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	
<b>SAND ROCK ROAD</b>								
STA. 200+46 LT			17					
STA. 207+14 LT			18					
<b>SOUTH STREET</b>								
STA. 4+33 LT								1
STA. 4+44 LT							12	
STA. 8+24 LT							63	
STA. 8+35 LT								1
STA. 8+46 LT				15				
STA. 9+03 LT			12					
STA. 9+30 LT					11			
STA. 9+32 LT		7				11		
STA. 9+36 LT								
<b>TOTAL</b>		<b>7</b>	<b>47</b>	<b>15</b>	<b>11</b>	<b>11</b>	<b>75</b>	<b>2</b>

NOTE: THE PAY ITEM "PIPE CULVERT REMOVAL" COVERS ALL SIZES OF CULVERT REMOVAL.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	5
FEDERAL AID PROJECT		CONTRACT 97575		

**INCIDENTAL HOT-MIX ASPHALT SURFACING**

LOCATION	INCIDENTAL HMA SURFACING, 6" TON
<b>MAIN STREET (IL RTE 159)</b>	
STA. 114+48	11.4
STA. 115+60	1.7
STA. 116+74	6.3
<b>HICKORY STREET</b>	
STA. 305+09	1.0
<b>TOTAL</b>	<b>20.4</b>

**MISCELLANEOUS REMOVAL SCHEDULE**

LOCATION	SIDEWALK REMOVAL	COMB. CURB & GUTTER REMOVAL	DRIVEWAY PAVEMENT REMOVAL
	SQ FT	FOOT	SQ YD
<b>SAND ROCK ROAD</b>			
STA. 200+23 LT TO 20+34 LT		11	
<b>MAIN STREET (IL RTE 159)</b>			
STA. 103+43			13.3
STA. 104+47			25.3
STA. 111+26			13.7
STA. 113+05			5.3
STA. 114+48			78.0
STA. 115+60			9.7
STA. 116+74			36.9
<b>MAIN STREET/MEMORIAL DRIVE INTERSECTION</b>			
NE QUAD	16		
<b>SOUTH STREET/MAIN STREET INTERSECTION</b>			
NW QUAD	16		
NE QUAD	65		
SW QUAD	56		
SE QUAD	83		
STA. 1+00 TO 1+12		12	
STA. 12+35 TO 12+41 RT		9	
<b>SOUTH STREET/SMITH STREET INTERSECTION</b>			
SW QUAD	16		
SE QUAD	30		
<b>SOUTH STREET/HICKORY STREET INTERSECTION</b>			
9+00 RT TO 9+21 RT		21	
11+55 LT	24		
<b>HICKORY STREET/BARKER STREET INTERSECTION</b>			
NW QUAD	176		
NE QUAD	28		
SW QUAD	67		
SE QUAD	16		
<b>HICKORY STREET/BARKER STREET INTERSECTION</b>			
NW QUAD		8	
STA. 307+76			
<b>TOTAL</b>	<b>674</b>	<b>61</b>	<b>182.2</b>

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	6
FEDERAL AID PROJECT			CONTRACT 97575	

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM	INVERTS
MAIN STREET (IL ROUTE 159)				
	114+02.62 9.31'R	DOWN STREAM END OF PIPE NO. 1		472.72 S
1	114+76.72 6.01'R	INLETS, TYPE A, TYPE 8 GRATE	474.62	473.04 S
2	116+44.50 5.63'R	INLETS, TYPE A, TYPE 8 GRATE	474.50	472.98 N
3	118+07.66 7.61'R	INLETS, TYPE A, TYPE 8 GRATE	473.88	472.30 S 472.30 N
SAND ROCK ROAD				
4	200+38.48 5.26'L	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	470.90	468.48 E
5	200+55.90 7.01'L	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	470.40	468.40 E
6	206+97.13 8.98'L	INLETS, TYPE A, TYPE 8 GRATE	453.15	451.02 E
7	208+03.33 2.09'L	INLETS, TYPE B, TYPE 1 FRAME CLOSED LID *	452.55	449.58 W 449.58 E
HICKORY STREET				
8	303+65.00 9.79'R	INLETS, SPECIAL, NO. 2 - 4'X4'	466.01	462.80 N 463.00 S 462.23 W 462.19 E
	303+51.02 9.63'R	UPSTREAM END OF PIPE NO. 7		464.00 S
	303+74.46 8.95'R	UPSTREAM END OF PIPE NO. 8		463.00 N
	303+61.51 3.80'L	UPSTREAM END OF PIPE NO. 9		462.29 W
SOUTH STREET				
9	4+46.45 5.57'L	MANHOLES, TYPE A, 4'-DIA., TYPE 8 GRATE *	467.50	464.85 N
10	4+32.04 1.71'L	MANHOLES, TYPE A, 5'-DIA., TYPE 11 FRAME & GRATE *	468.13	465.32 S 464.73 E 464.73 N
11	8+43.59 4.32'L	INLETS, TYPE A, TYPE 8 GRATE	464.75	463.50 N 462.80 E
12	8+97.05 1.64'L	INLETS, TYPE A, TYPE 8 GRATE	464.00	462.40 W 462.30 SE
13	9+28.74 1.43'R	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	464.86	462.06 S 462.06 N
14	9+33.45 4.29'L	INLETS, SPECIAL, NO. 4 - 6.5'X4.5'	465.27	462.07 E 462.03 SW 462.03 W 462.03 NW 462.03 N
15	9+75.72 3.50'L	INLETS, SPECIAL, NO. 1 - 3'X3'	465.12	462.50 W

\* - DENOTES FLAT SLAB TOP  
 1 - ELEVATION GIVEN IS TO BACK OF CURB OR TOP OF FRAME  
 NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.

STORM SEWER SCHEDULE									
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL
MAIN STREET (IL ROUTE 159)									
1	EXISTING 15" CMP	OPEN DITCH	Pipe Culverts, Class D, Type 1	15"	19'	472.81	472.72	0.50%	0 C.Y.
2	2	EXISTING 15" CMP	Pipe Culverts, Class D, Type 1	15"	5'	472.98	472.96	0.39%	0.5 C.Y.
3	EXISTING 15" CMP	3	Pipe Culverts, Class D, Type 1	15"	102'	472.75	472.30	0.44%	0 C.Y.
SAND ROCK ROAD									
4	4	5	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	16'	468.48	468.40	0.45%	0 C.Y.
5	5	OPEN DITCH	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	206'	468.40	467.14	0.61%	0 C.Y.
6	6	7	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	104'	451.02	449.58	1.36%	4.7 C.Y.
HICKORY STREET									
7	OPEN DITCH	8	Storm Sewers, Class B, Type 1	12"	12'	464.00	463.00	7.16%	0 C.Y.
8	OPEN DITCH	8	Storm Sewers, Class B, Type 1	12"	7'	463.00	462.80	2.11%	0 C.Y.
9	8	OPEN DITCH	Storm Sewers, Rubber Gasket, Class A, Type 1	27"	12'	462.29	462.23	0.43%	8.3 C.Y.
SOUTH STREET									
10	9	10	Storm Sewers, Class B, Type 1	24"	8'	464.85	464.73	1.00%	0.9 C.Y.
11	EXISTING INLET	14	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	57'	462.37	462.03	0.56%	6.3 C.Y.
12	11	12	Storm Sewers, Class B, Type 1	12"	27'	462.80	462.40	1.36%	3.4 C.Y.
13	12	14	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	22'	462.30	462.03	1.00%	2.5 C.Y.
14	13	14	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	4'	462.06	462.03	0.40%	1.0 C.Y.
15	15	14	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	38'	462.50	462.07	1.02%	4.9 C.Y.
16	14	EXISTING INLET	Storm Sewers, Class A, Type 1, Equiv. Rd. Size	30"	7'	462.03	461.97	0.59%	0 C.Y.

\* - PIPE NO. 7 AND PIPE NO. 8 SHALL BE HDPE PIPE  
 \*\* - PIPE NO. 12 SHALL BE PVC PIPE

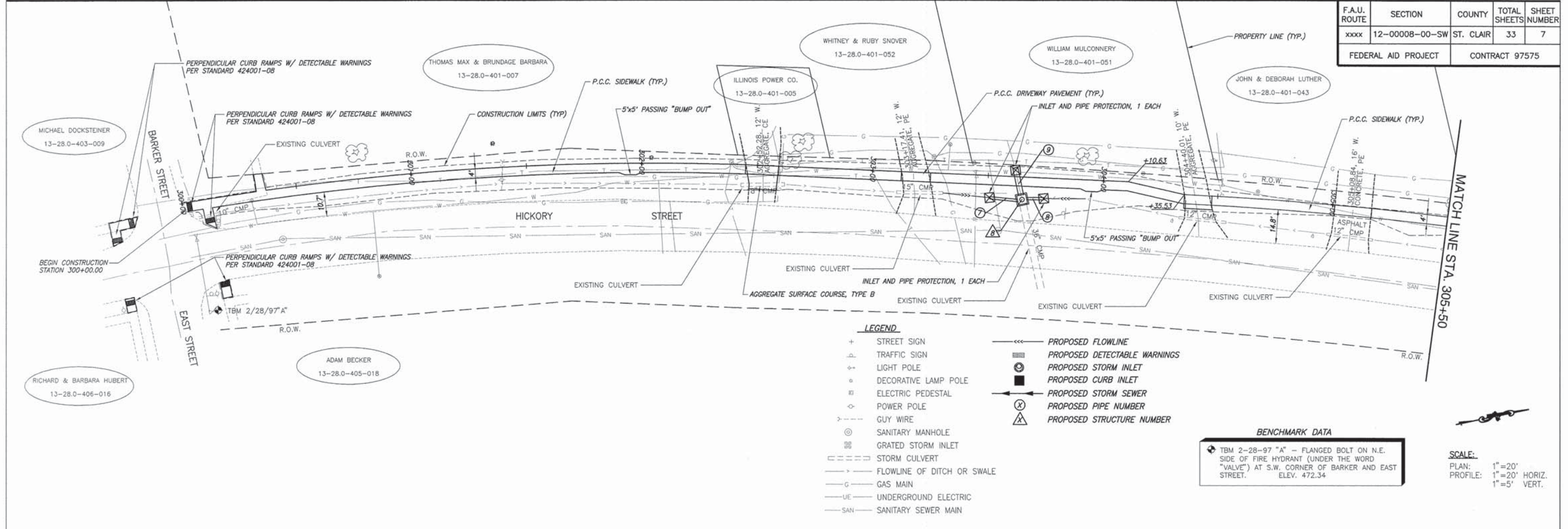
**STORM SEWER SUMMARY**

	STORM SEWERS, RUBBER GASKETED CLASS A, TYPE 1 12"	STORM SEWERS, RUBBER GASKETED CLASS A, TYPE 1 18"	STORM SEWERS, RUBBER GASKETED CLASS A, TYPE 1 24"	STORM SEWERS, RUBBER GASKETED CLASS A, TYPE 1 27"	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND - SIZE 30"	STORM SEWERS, CLASS B, TYPE 1 12"	STORM SEWERS, CLASS B, TYPE 1 24"	PIPE CULVERTS CLASS D, TYPE 1 15"	TRENCH BACKFILL
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU. YD.
TOTAL	286	104	57	12	7	46	8	126	32.0

**DRAINAGE STRUCTURE SUMMARY**

	INLET SPECIAL, NO. 1 (3'X3')	INLET SPECIAL, NO. 2 (4'X4')	INLET SPECIAL, NO. 3 (6.5'X4.5')	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 8 GRATE	INLETS, TYPE B, TYPE 1 FRAME CLOSED LID	MANHOLES, TYPE A-4' DIA. TYPE 8 GRATE	MANHOLES, TYPE A-5' DIA. TYPE 11 FRAME AND GRATE
	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
TOTAL	1	1	1	3	6	1	1	1

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	7
FEDERAL AID PROJECT		CONTRACT 97575		

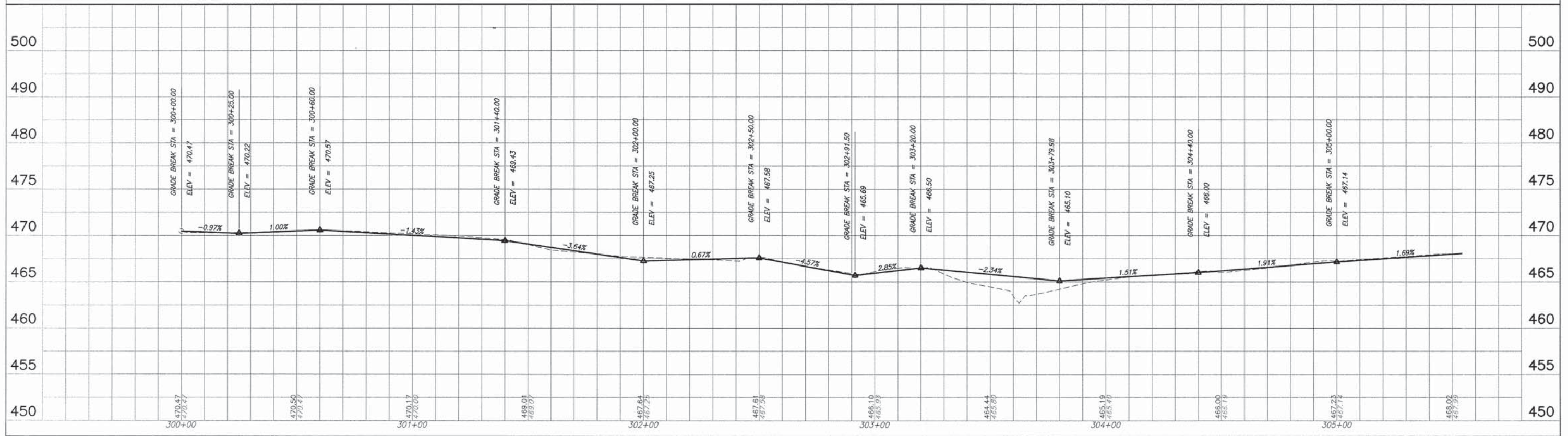


- LEGEND**
- + STREET SIGN
  - TRAFFIC SIGN
  - o LIGHT POLE
  - o DECORATIVE LAMP POLE
  - o ELECTRIC PEDESTAL
  - o POWER POLE
  - o GUY WIRE
  - o SANITARY MANHOLE
  - o GRATED STORM INLET
  - o STORM CULVERT
  - o FLOWLINE OF DITCH OR SWALE
  - G GAS MAIN
  - UE UNDERGROUND ELECTRIC
  - SAN SANITARY SEWER MAIN
- PROPOSED FLOWLINE
  - PROPOSED DETECTABLE WARNINGS
  - o PROPOSED STORM INLET
  - o PROPOSED CURB INLET
  - o PROPOSED STORM SEWER
  - o PROPOSED PIPE NUMBER
  - o PROPOSED STRUCTURE NUMBER

**BENCHMARK DATA**

TBM 2-28-97 "A" - FLANGED BOLT ON N.E. SIDE OF FIRE HYDRANT (UNDER THE WORD "VALVE") AT S.W. CORNER OF BARKER AND EAST STREET. ELEV. 472.34

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

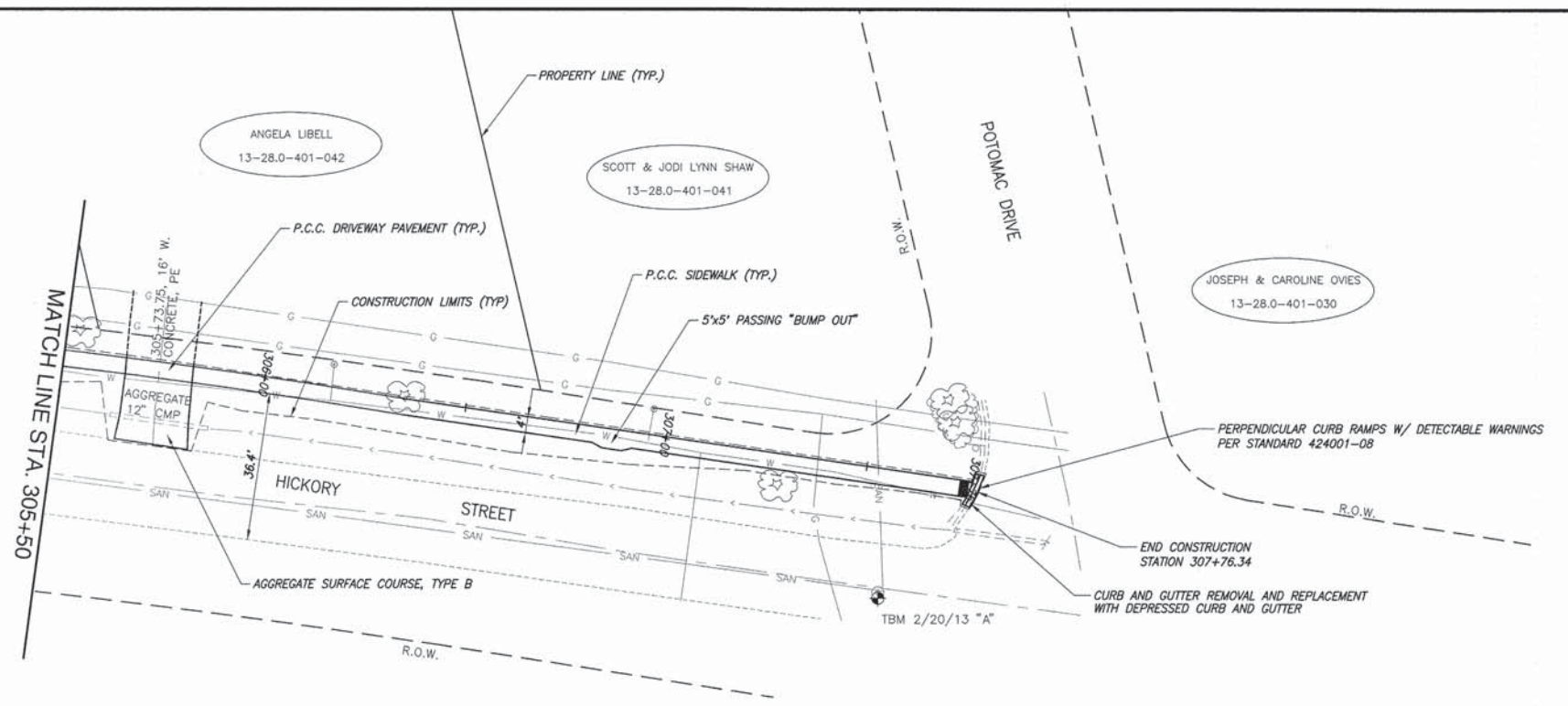


HICKORY STREET PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	8
FEDERAL AID PROJECT			CONTRACT 97575	

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

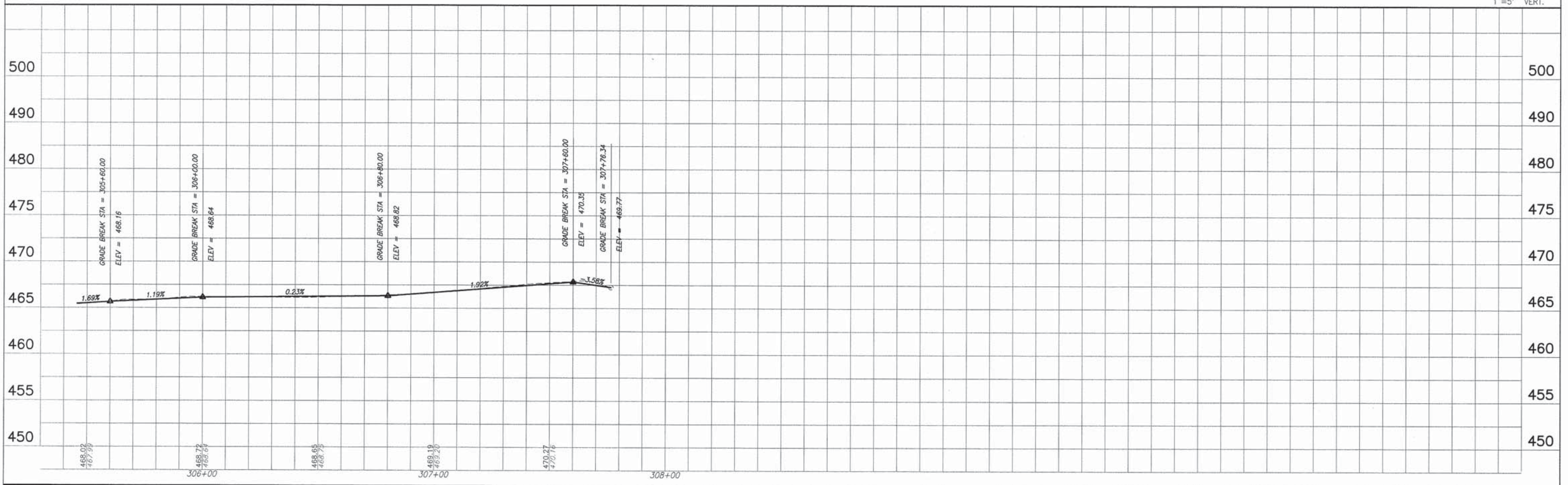
- LEGEND**
- + STREET SIGN
  - ⊠ TRAFFIC SIGN
  - ⊙ LIGHT POLE
  - ⊙ DECORATIVE LAMP POLE
  - ⊠ ELECTRIC PEDESTAL
  - ⊙ POWER POLE
  - ⊙ GUY WIRE
  - ⊙ SANITARY MANHOLE
  - ⊠ GRATED STORM INLET
  - ⊠ STORM CULVERT
  - FLOWLINE OF DITCH OR SWALE
  - GAS MAIN
  - UE UNDERGROUND ELECTRIC
  - SAN SANITARY SEWER MAIN
  - PROPOSED FLOWLINE
  - ⊠ PROPOSED DETECTABLE WARNINGS
  - ⊙ PROPOSED STORM INLET
  - ⊠ PROPOSED CURB INLET
  - PROPOSED STORM SEWER
  - ⊙ PROPOSED PIPE NUMBER
  - ⊠ PROPOSED STRUCTURE NUMBER



**BENCHMARK DATA**

⊙ TBM 2-20-13 "C" CHISELED "X" ON EAST RIM OF SANITARY MH IN CENTERLINE OF HICKORY JUST SOUTH OF POTOMAC. ELEV. 469.13

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







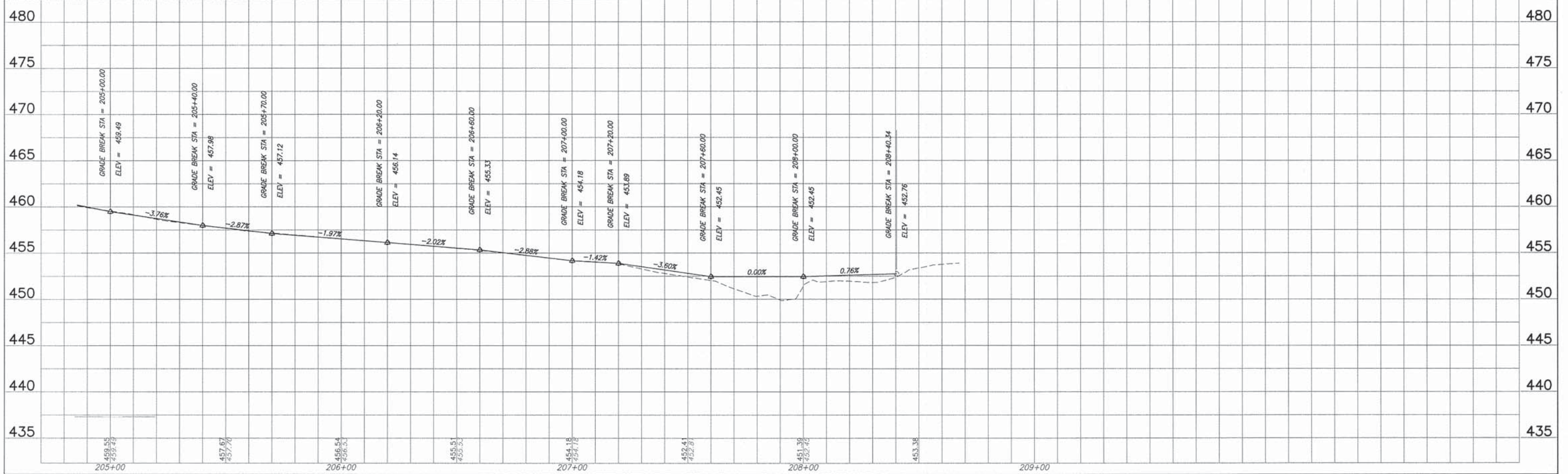
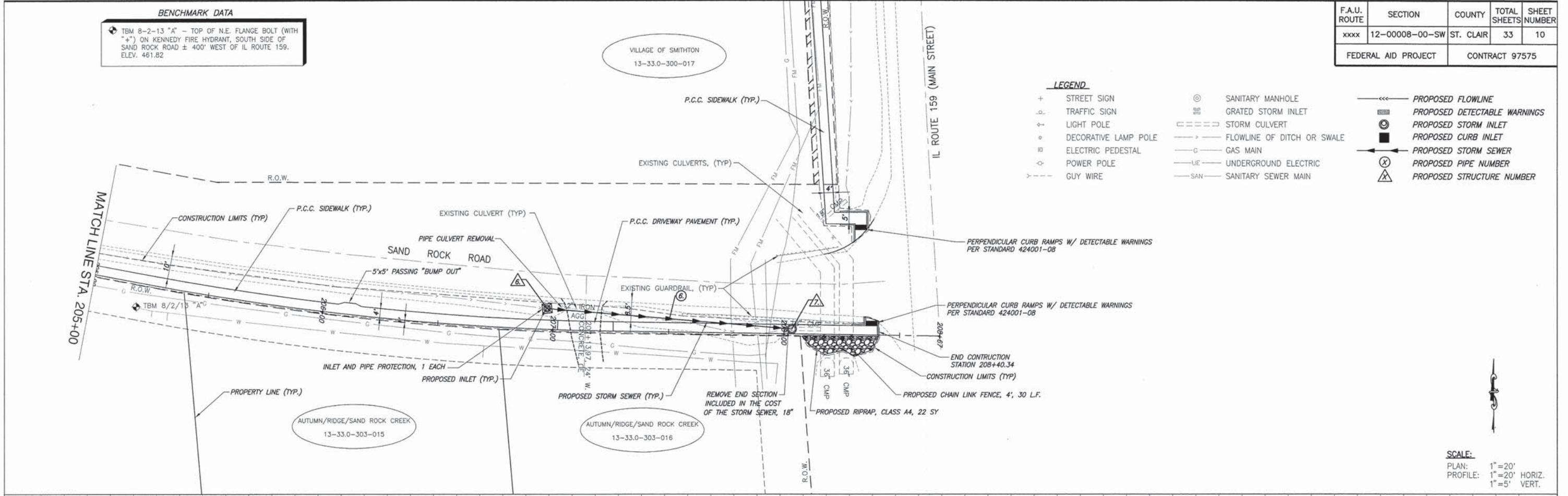
**BENCHMARK DATA**

TBM 8-2-13 "A" - TOP OF N.E. FLANGE BOLT (WITH "+") ON KENNEDY FIRE HYDRANT, SOUTH SIDE OF SAND ROCK ROAD ± 400' WEST OF IL ROUTE 159. ELEV. 461.82

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	10
FEDERAL AID PROJECT		CONTRACT 97575		

**LEGEND**

- + STREET SIGN
- ⊕ TRAFFIC SIGN
- ⊕ LIGHT POLE
- ⊕ DECORATIVE LAMP POLE
- ⊕ ELECTRIC PEDESTAL
- ⊕ POWER POLE
- - - GUY WIRE
- ⊙ SANITARY MANHOLE
- ⊕ GRATED STORM INLET
- ⊕ STORM CULVERT
- ⊕ FLOWLINE OF DITCH OR SWALE
- G GAS MAIN
- UE UNDERGROUND ELECTRIC
- SAN SANITARY SEWER MAIN
- ⊕ PROPOSED FLOWLINE
- ⊕ PROPOSED DETECTABLE WARNINGS
- ⊕ PROPOSED STORM INLET
- ⊕ PROPOSED CURB INLET
- ⊕ PROPOSED STORM SEWER
- ⊕ PROPOSED PIPE NUMBER
- ⊕ PROPOSED STRUCTURE NUMBER



SANDROCK ROAD PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS

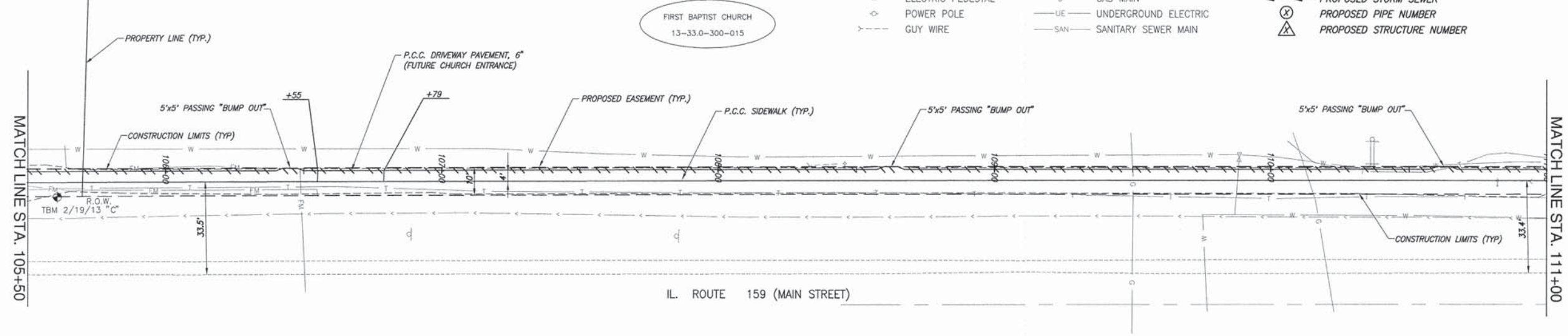
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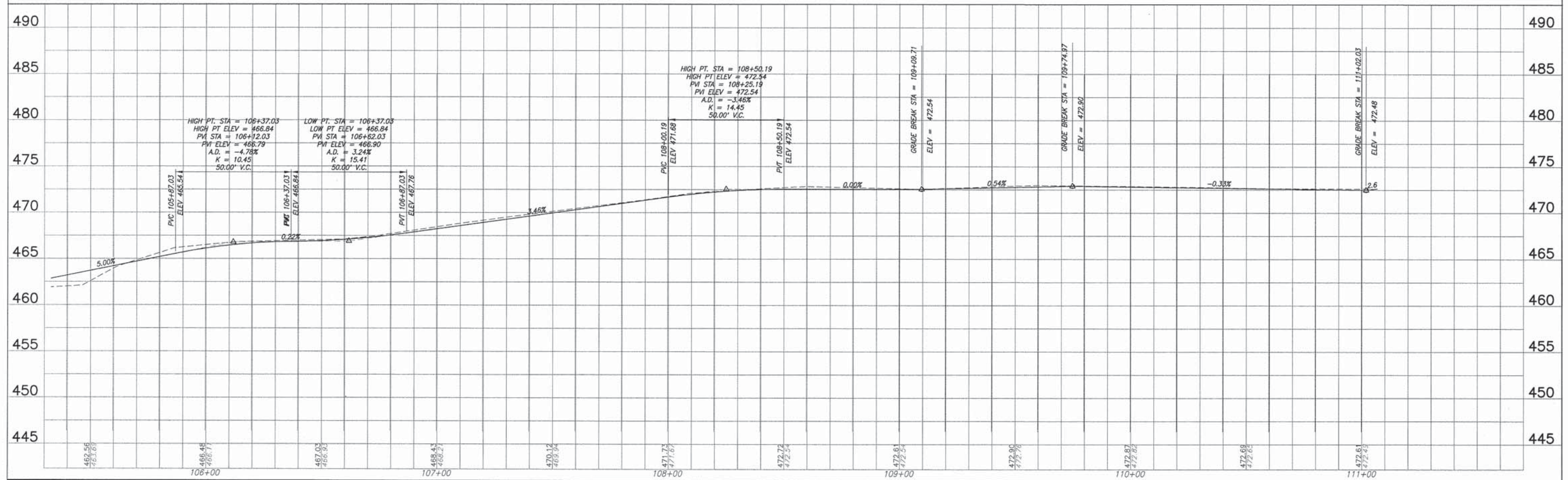
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	12
FEDERAL AID PROJECT		CONTRACT 97575		

**BENCHMARK DATA**  
 TBM 2-19-13 "C" - R.R. SPIKE IN EAST FACE OF LIGHT POLE ON WEST SIDE OF IL ROUTE 159 AT N.E. CORNER OF SENIOR CENTER TRACT. ELEV. 465.07

- LEGEND**
- STREET SIGN
  - TRAFFIC SIGN
  - LIGHT POLE
  - DECORATIVE LAMP POLE
  - ELECTRIC PEDESTAL
  - POWER POLE
  - GUY WIRE
  - SANITARY MANHOLE
  - GRATED STORM INLET
  - STORM CULVERT
  - FLOWLINE OF DITCH OR SWALE
  - GAS MAIN
  - UNDERGROUND ELECTRIC
  - SANITARY SEWER MAIN
  - PROPOSED FLOWLINE
  - PROPOSED DETECTABLE WARNINGS
  - PROPOSED STORM INLET
  - PROPOSED CURB INLET
  - PROPOSED STORM SEWER
  - PROPOSED PIPE NUMBER
  - PROPOSED STRUCTURE NUMBER



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



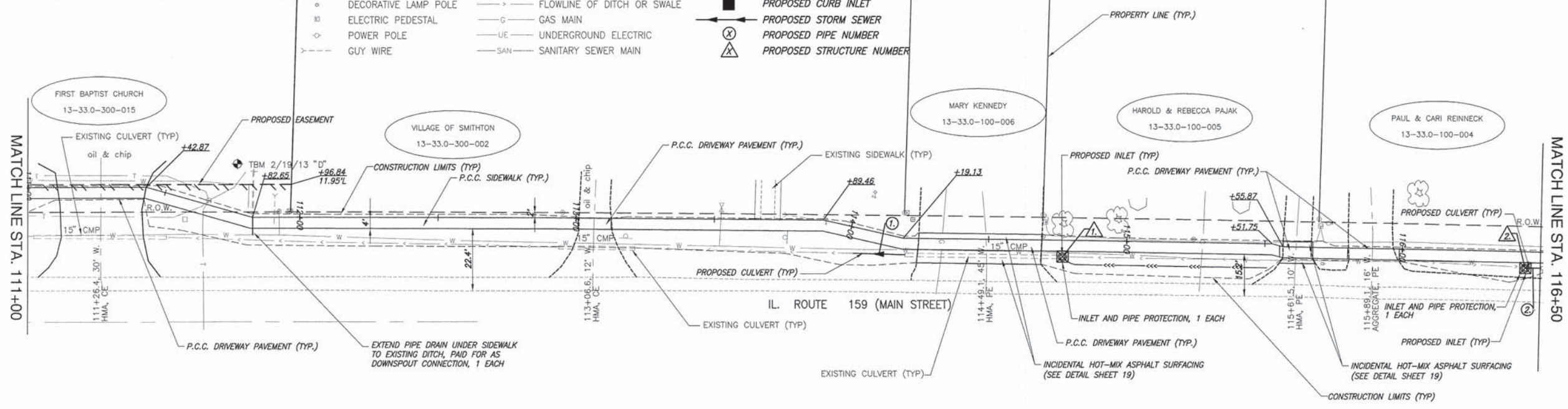
IL ROUTE 159 PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS

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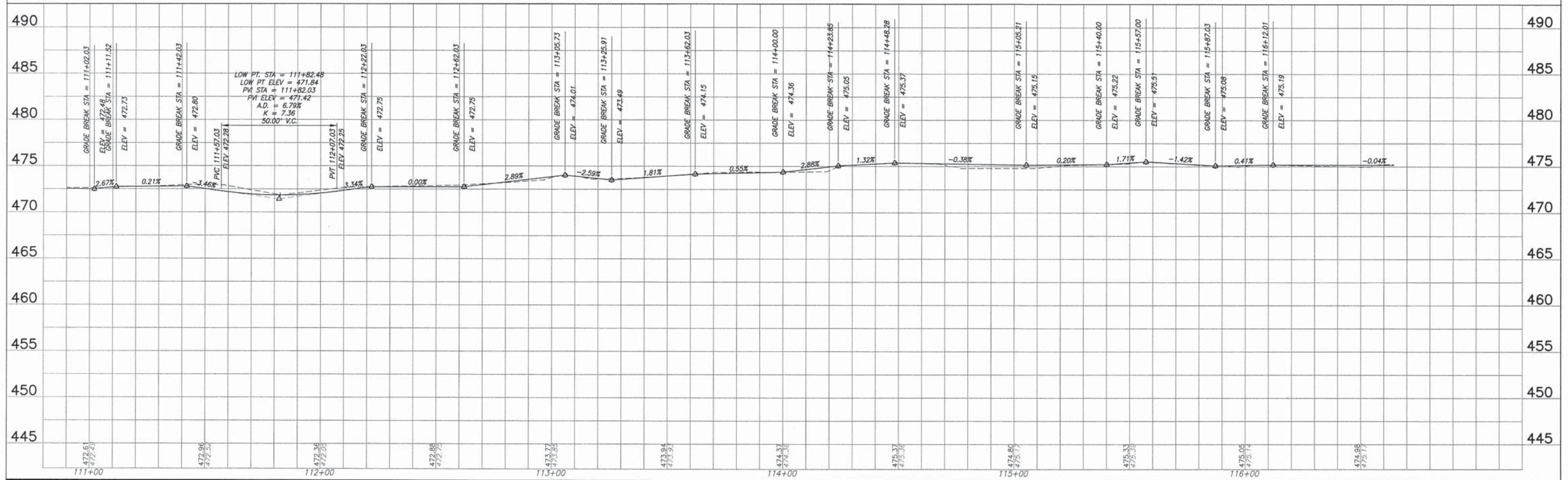
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	13
FEDERAL AID PROJECT		CONTRACT 97575		

**BENCHMARK DATA**  
 TBM 2-19-13 "0" - CHISELED " " NEAR S.E. CORNER OF CONCRETE LID ON LIFT STATION ON WEST SIDE OF IL ROUTE 159, ±100' NORTH OF BAPTIST CHURCH. ELEV. 473.96

- LEGEND**
- + STREET SIGN
  - ⊕ TRAFFIC SIGN
  - ⊕ LIGHT POLE
  - ⊕ DECORATIVE LAMP POLE
  - ⊕ ELECTRIC PEDESTAL
  - ⊕ POWER POLE
  - ⊕ GUY WIRE
  - ⊙ SANITARY MANHOLE
  - ⊕ GRATED STORM INLET
  - ⊕ STORM CULVERT
  - FLOWLINE OF DITCH OR SWALE
  - GAS MAIN
  - UNDERGROUND ELECTRIC
  - SAN — SANITARY SEWER MAIN
  - PROPOSED FLOWLINE
  - PROPOSED DETECTABLE WARNINGS
  - ⊕ PROPOSED STORM INLET
  - ⊕ PROPOSED CURB INLET
  - PROPOSED STORM SEWER
  - ⊕ PROPOSED PIPE NUMBER
  - ⊕ PROPOSED STRUCTURE NUMBER



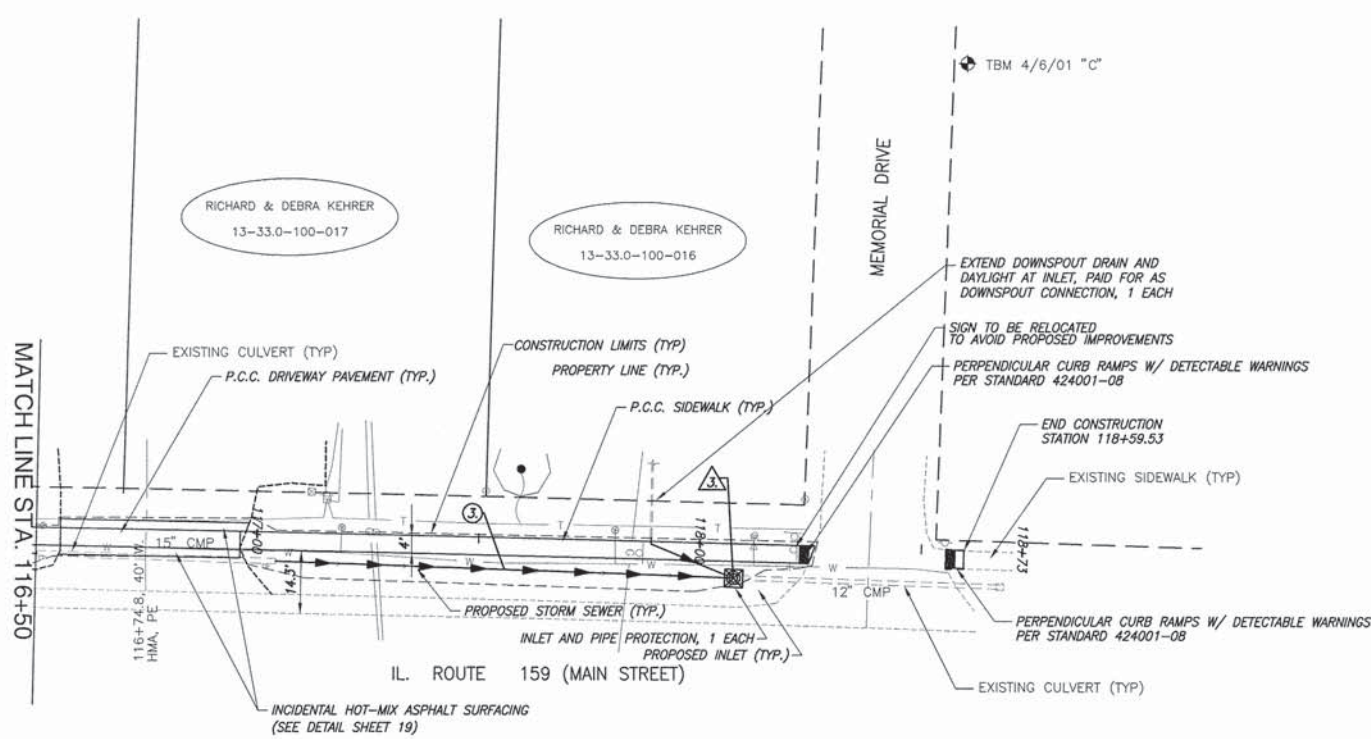
**SCALE:**  
 PLAN: 1" = 20'  
 PROFILE: 1" = 20' HORIZ.  
 1" = 5' VERT.



IL ROUTE 159 PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS

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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	14
FEDERAL AID PROJECT			CONTRACT 97575	

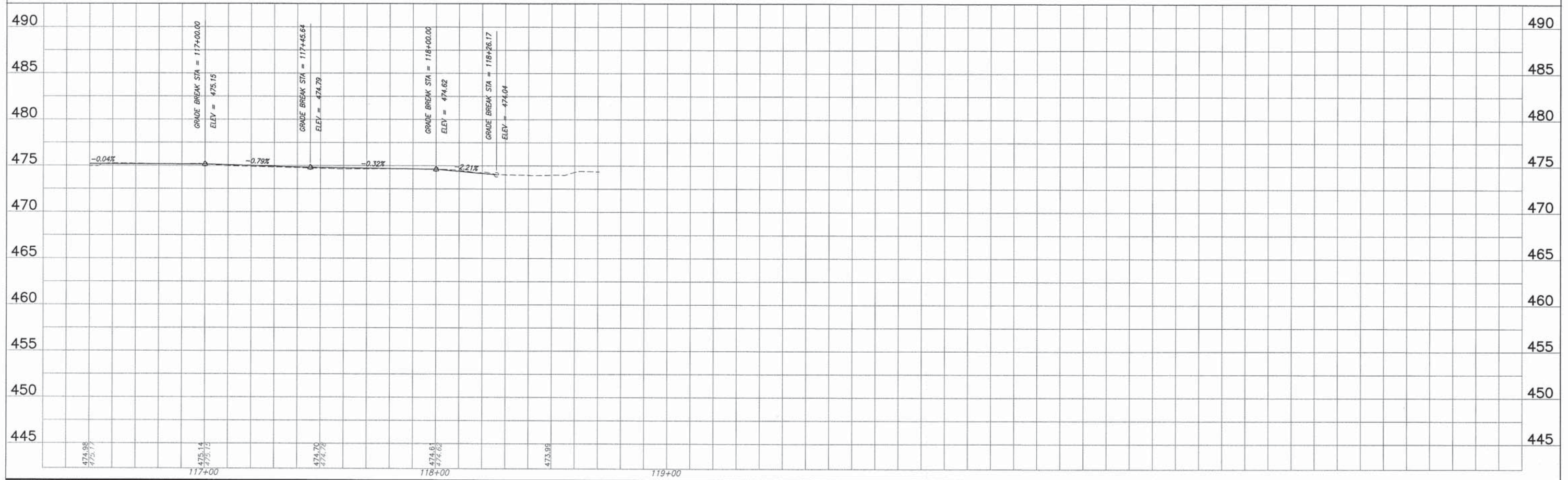


- LEGEND**
- + STREET SIGN
  - △ TRAFFIC SIGN
  - LIGHT POLE
  - ⊙ DECORATIVE LAMP POLE
  - ⊞ ELECTRIC PEDESTAL
  - POWER POLE
  - GUY WIRE
  - ⊙ SANITARY MANHOLE
  - ⊞ GRATED STORM INLET
  - STORM CULVERT
  - FLOWLINE OF DITCH OR SWALE
  - GAS MAIN
  - UE UNDERGROUND ELECTRIC
  - SAN SANITARY SEWER MAIN
  - PROPOSED FLOWLINE
  - ▬ PROPOSED DETECTABLE WARNINGS
  - ⊙ PROPOSED STORM INLET
  - ▬ PROPOSED CURB INLET
  - ▬ PROPOSED STORM SEWER
  - ⊙ PROPOSED PIPE NUMBER
  - ⊞ PROPOSED STRUCTURE NUMBER

**BENCHMARK DATA**

⊙ TBM 4-6-01 "C" - TOP OF 2" DIAMETER IRON PIN IN SOUTH FACE OF POWER POLE NORTH SIDE OF MEMORIAL DRIVE, 2ND POLE WEST OF IL ROUTE 159. ELEV. 475.38

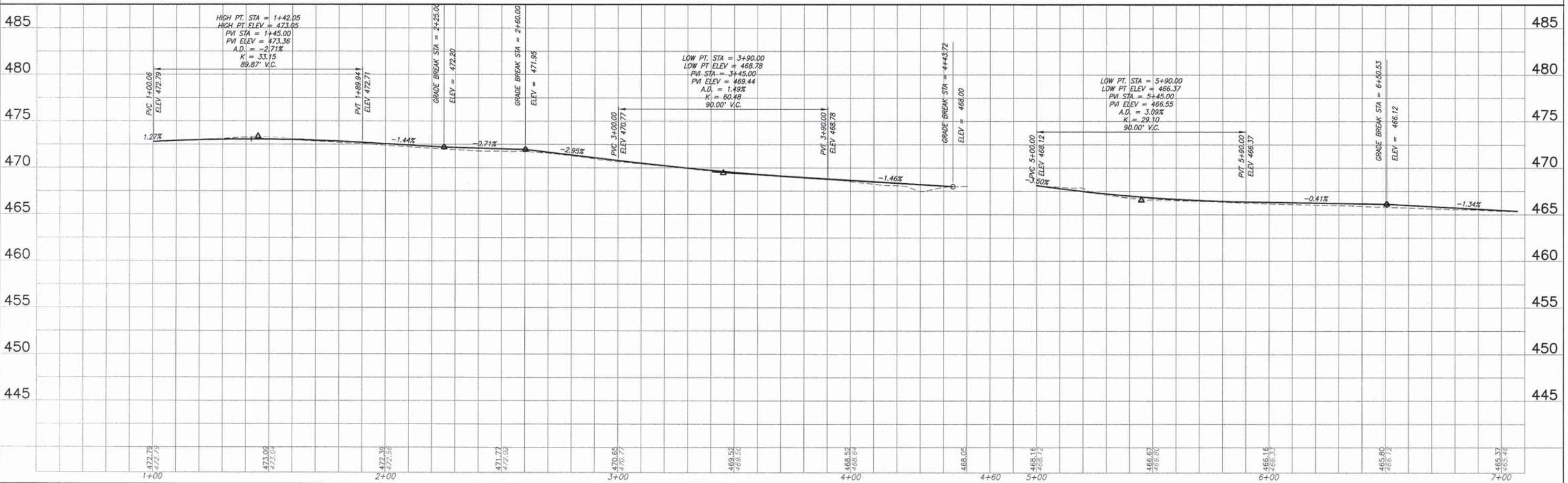
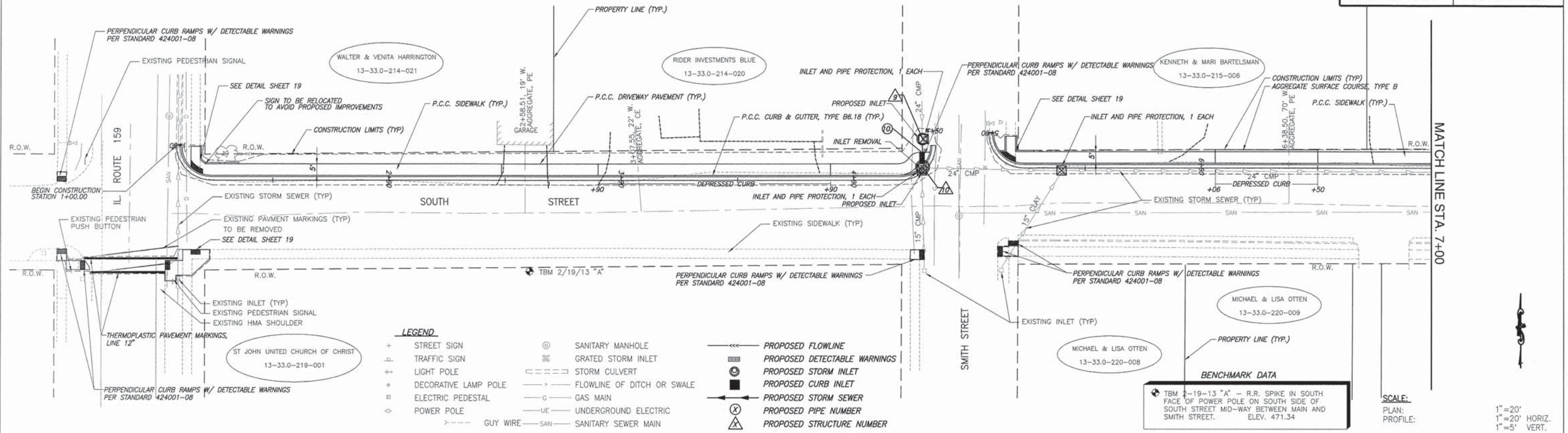
**SCALE:**  
 PLAN: 1" = 20'  
 PROFILE: 1" = 20' HORIZ.  
 1" = 5' VERT.



IL ROUTE 159 PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS

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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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FEDERAL AID PROJECT		CONTRACT 97575		



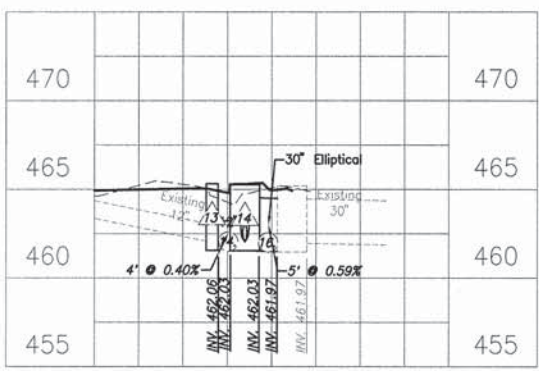
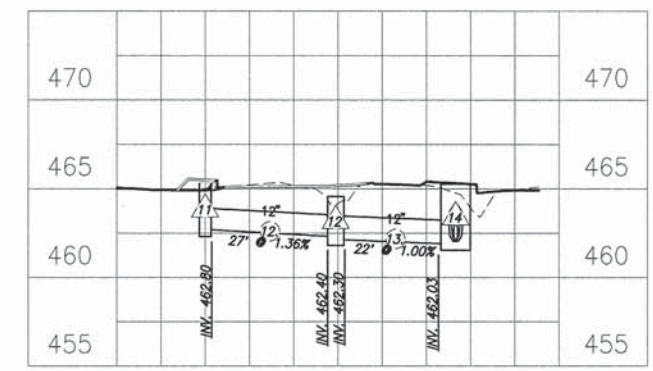
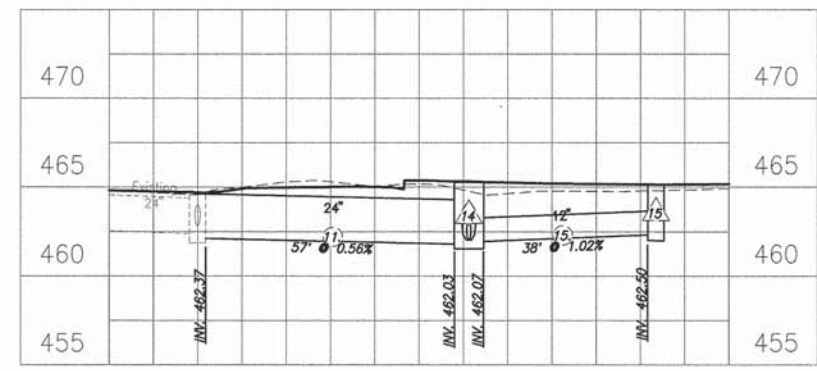
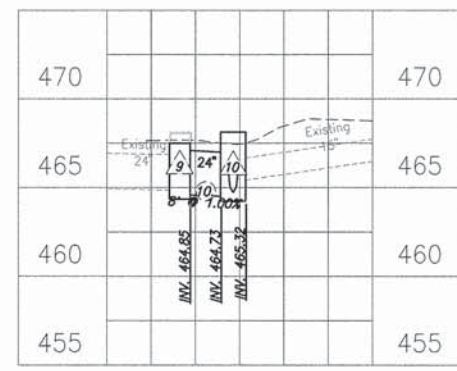
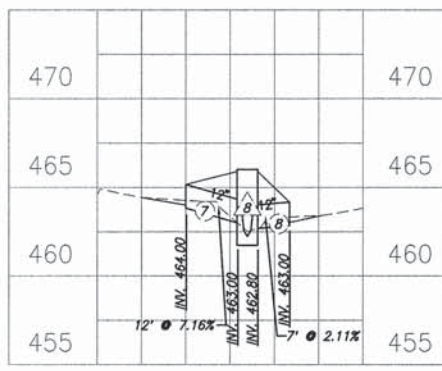
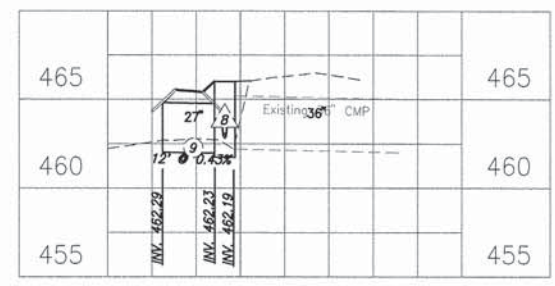
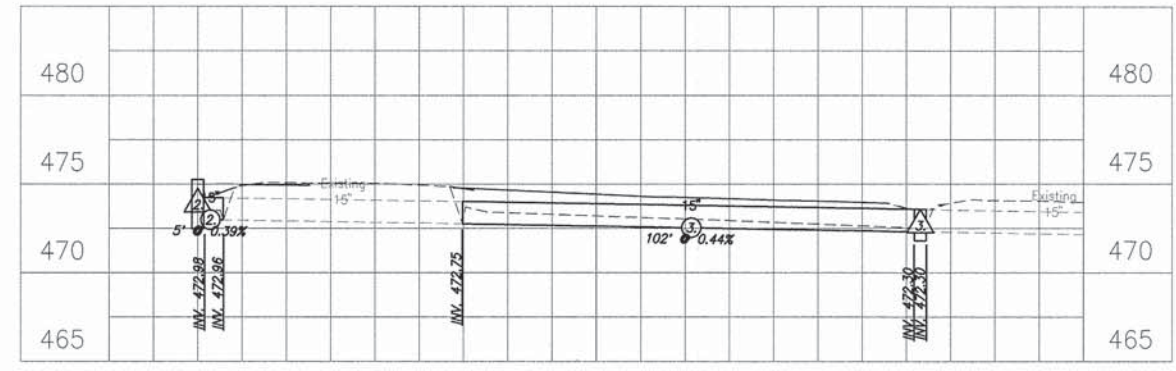
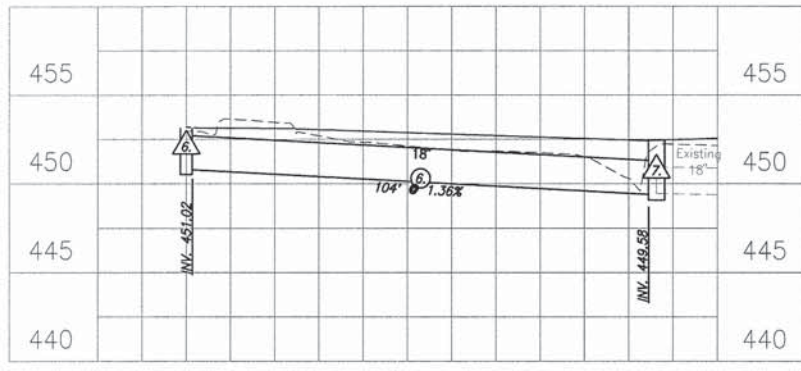
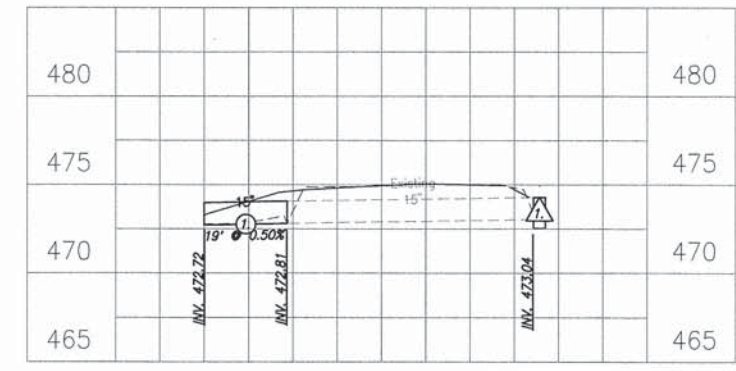
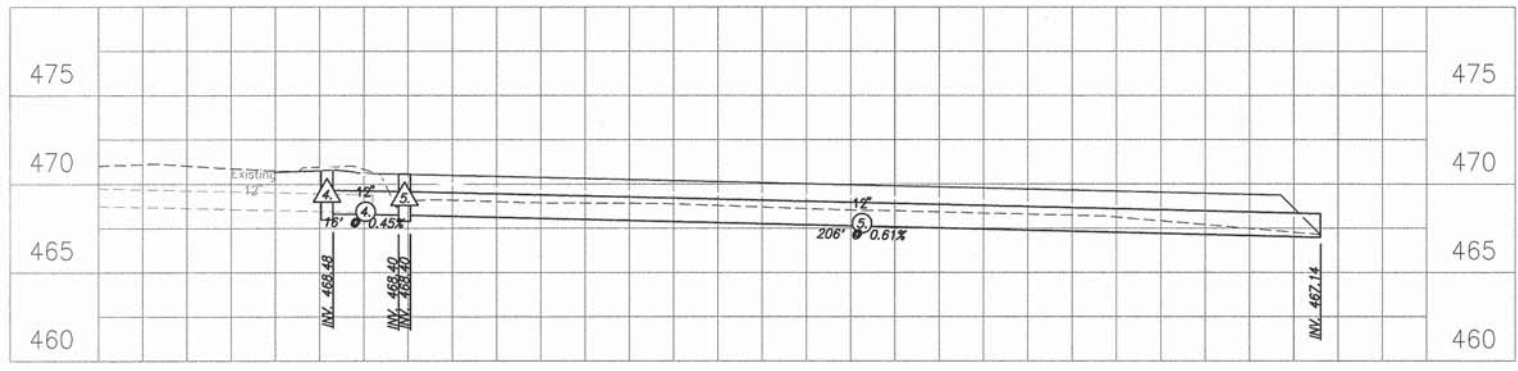
SOUTH STREET PLAN AND PROFILES SMITHTON - SAFE ROUTES TO SCHOOL ST. CLAIR COUNTY, ILLINOIS





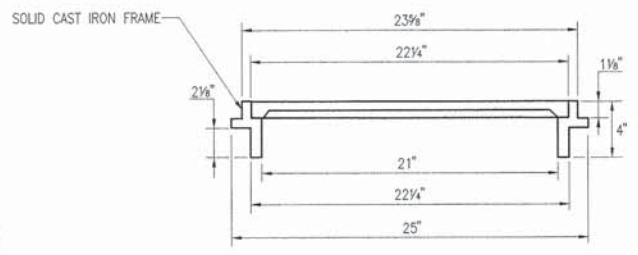
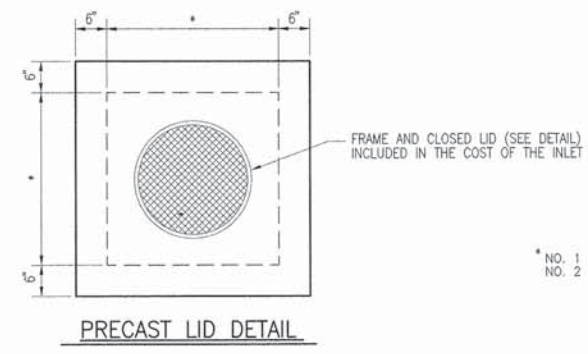
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	17
FEDERAL AID PROJECT		CONTRACT 97575		

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



K:\1112\_Storm\_Sewer\1112\_Sewer\1112\_Storm\_Sewer.dwg 1/25/2013 3:48:20 PM Plotted to V:\

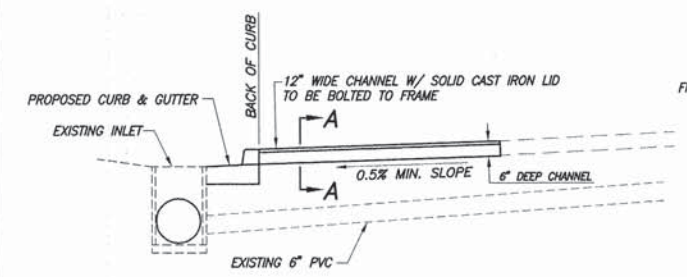
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
12-0008-00-SW	ST. CLAIR	33	18	
FEDERAL AID PROJECT			CONTRACT 97575	



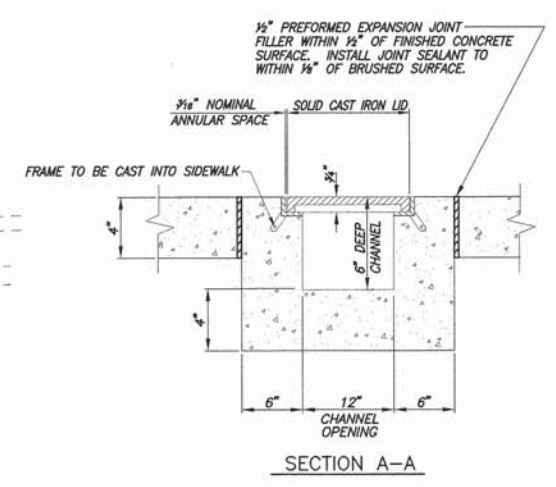
\* NO. 1 = 3'  
NO. 2 = 4'

INLET TYPE	INSIDE WIDTH
INLETS, SPECIAL, NO. 1	3' X 3'

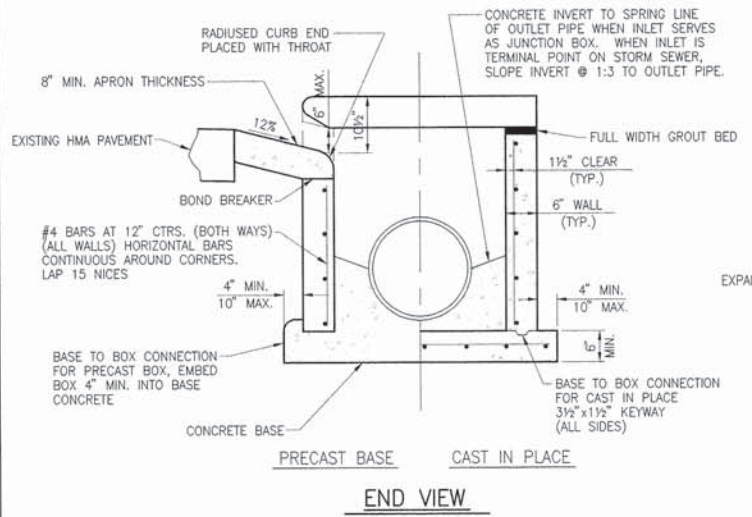
FRAME AND CLOSED LID



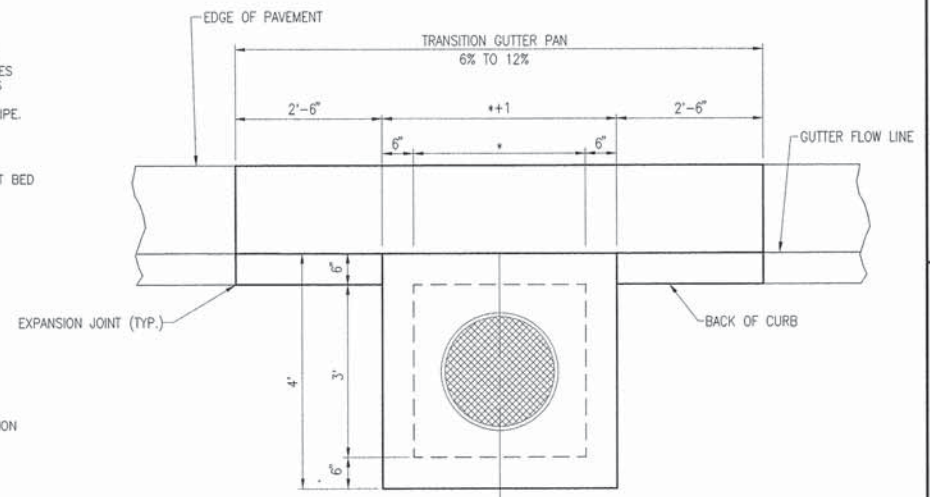
TRENCH DRAIN DETAIL  
N.T.S.



SECTION A-A

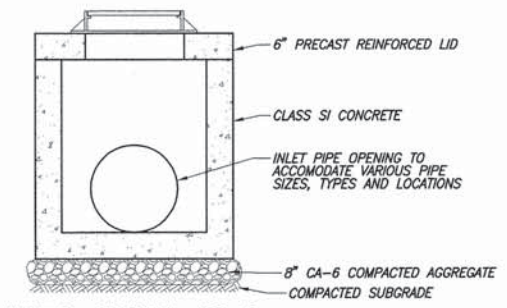


END VIEW

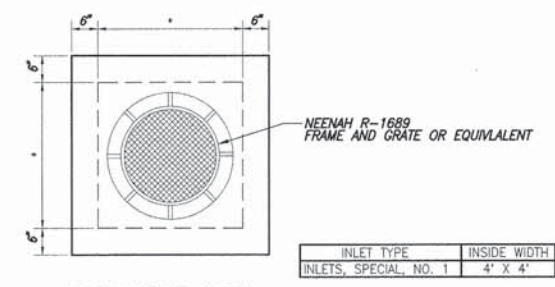


PLAN

INLETS, SPECIAL NO. 1  
N.T.S.

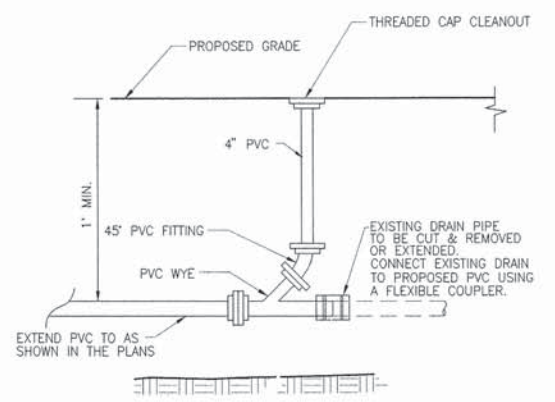


INLETS, SPECIAL NO. 2  
N.T.S.



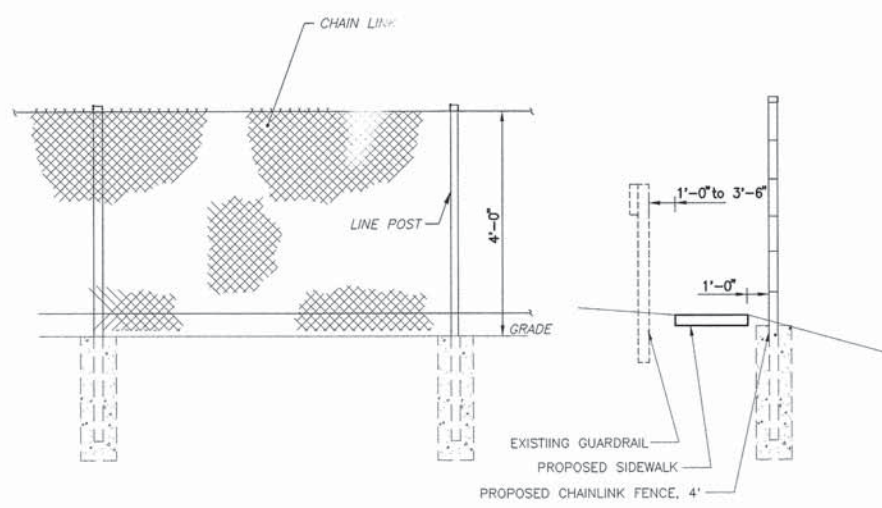
PRECAST LID DETAIL

INLET TYPE	INSIDE WIDTH
INLETS, SPECIAL, NO. 1	4' X 4'

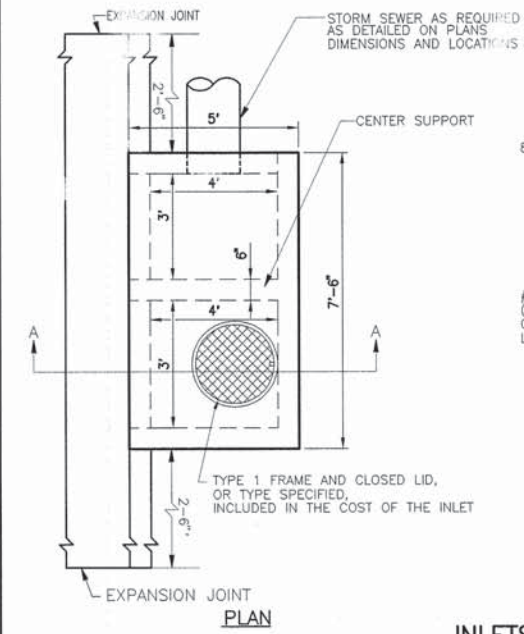


DOWNSPOUT CONNECTION  
N.T.S.

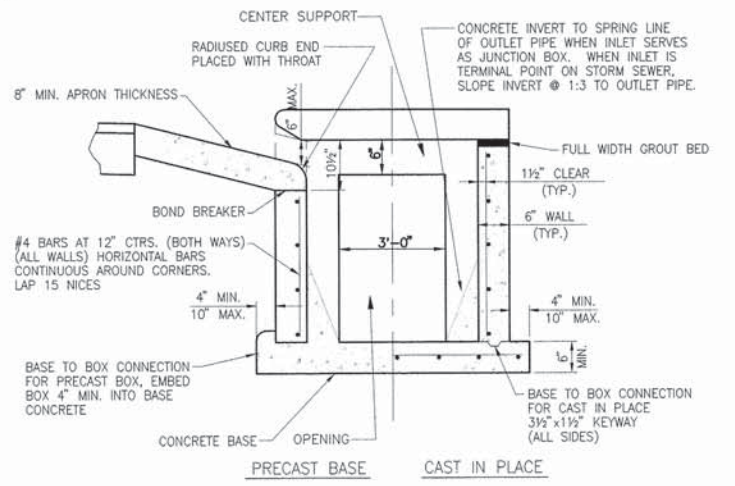
NOTE: ALL ITEMS REQUIRED TO COMPLETE CONNECTION AND EXTENSION OF THE EXISTING DRAINS SHALL BE INCLUDED IN PRICE OF THE DOWNSPOUT CONNECTION. SIZES SHALL MATCH THE EXISTING DIAMETERS WITH A MINIMUM DIAMETER OF 4" (SOME CONNECTION ITEMS MAY NOT BE SHOWN).



CHAIN LINK FENCE, 4'  
NEAR INTERSECTION OF SAND ROCK AND IL RTE 159  
N.T.S.



PLAN

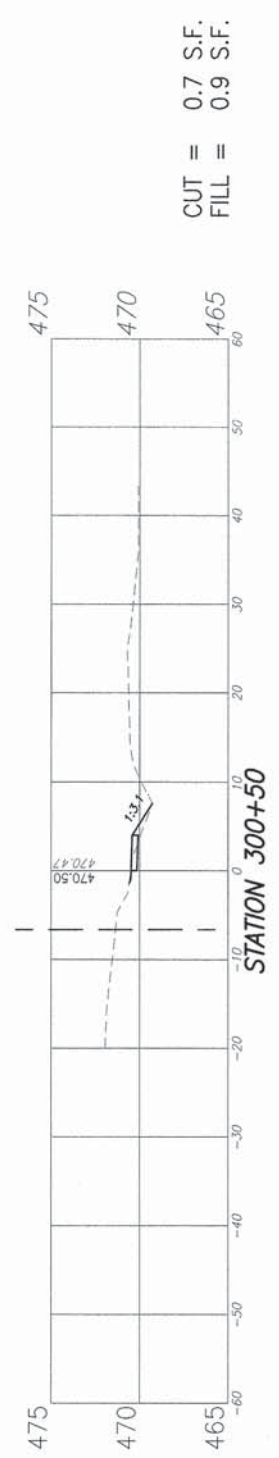
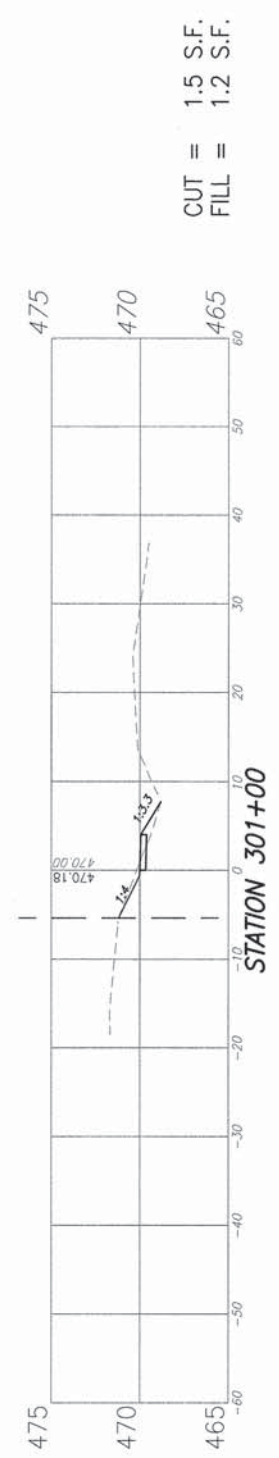
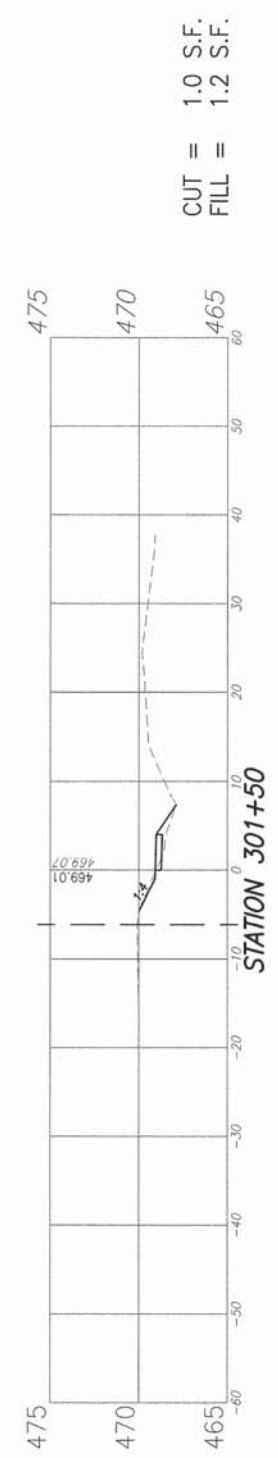
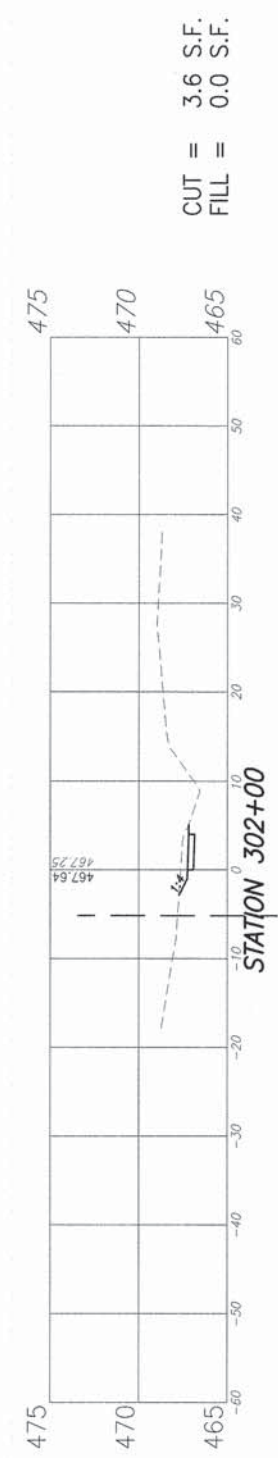
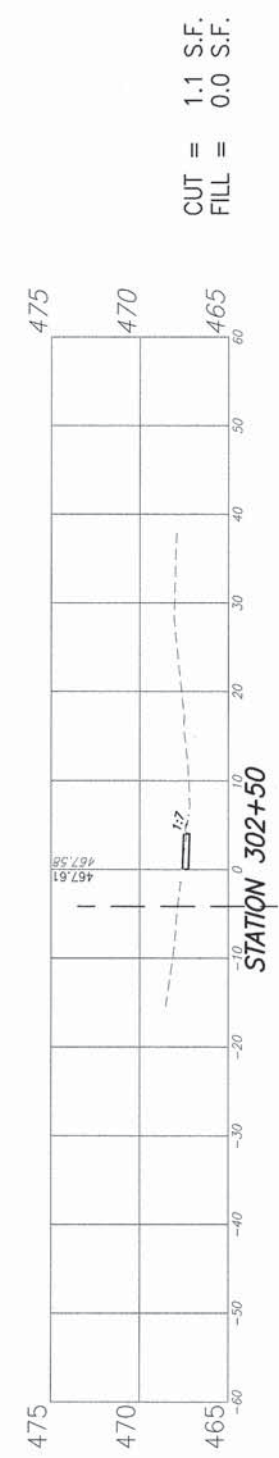
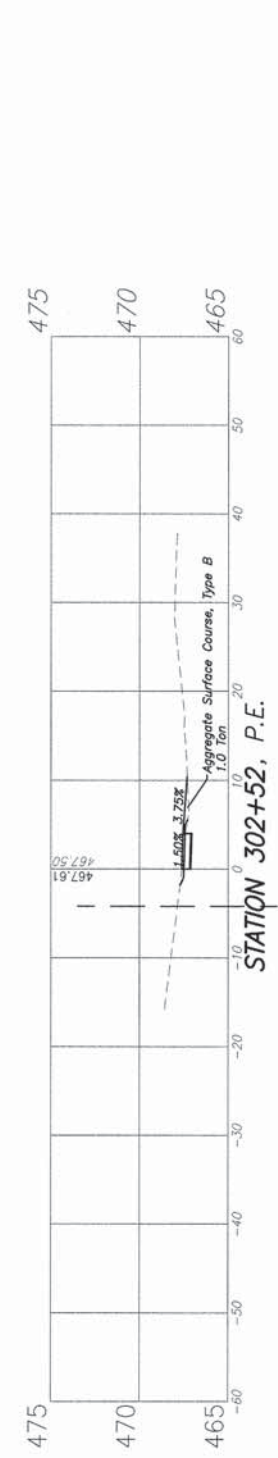
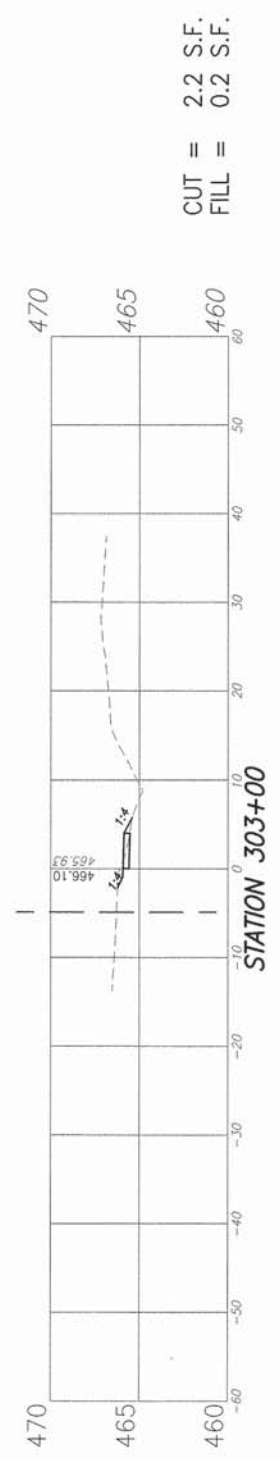
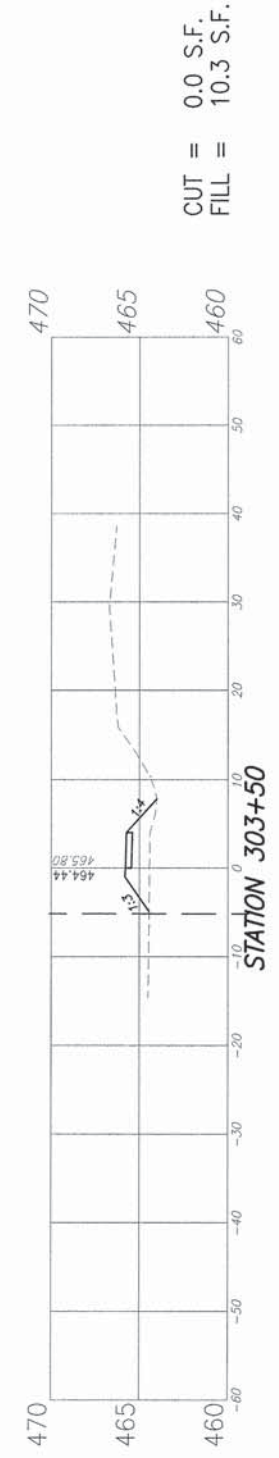


ELEVATION A-A

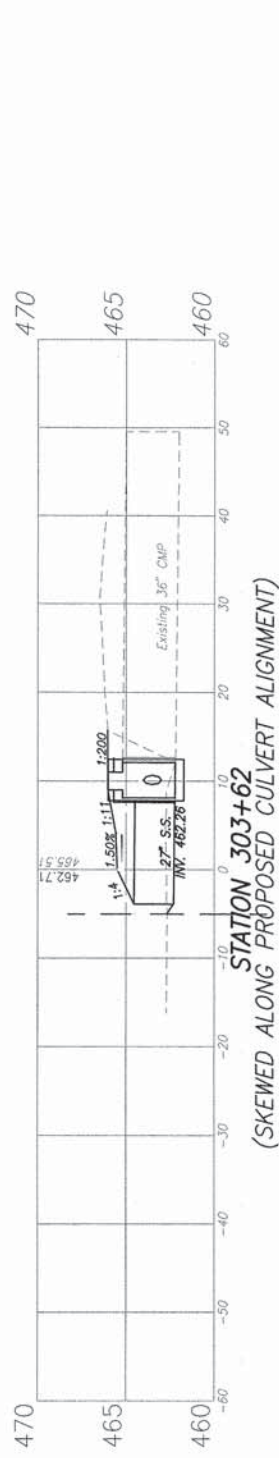
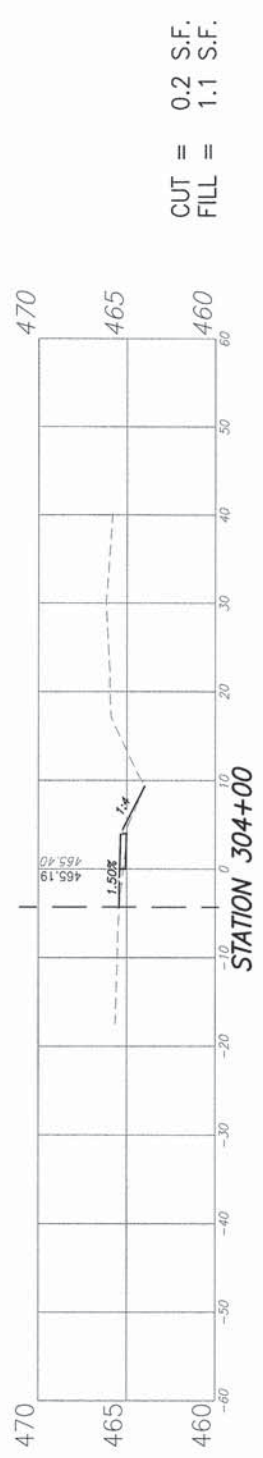
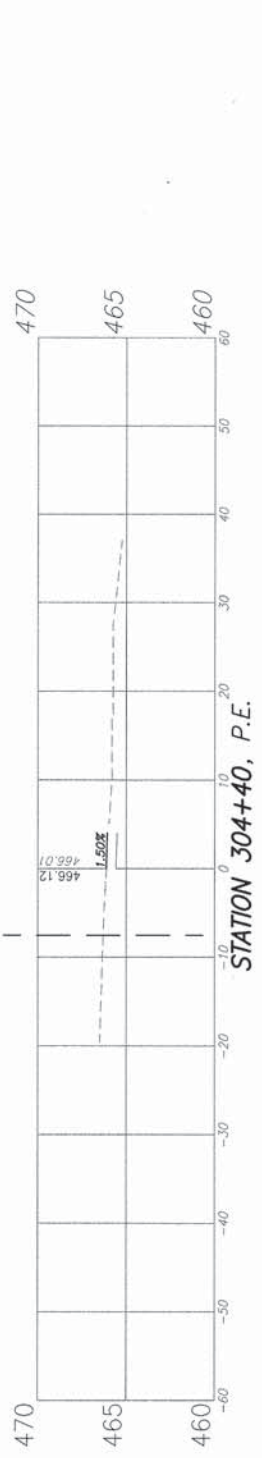
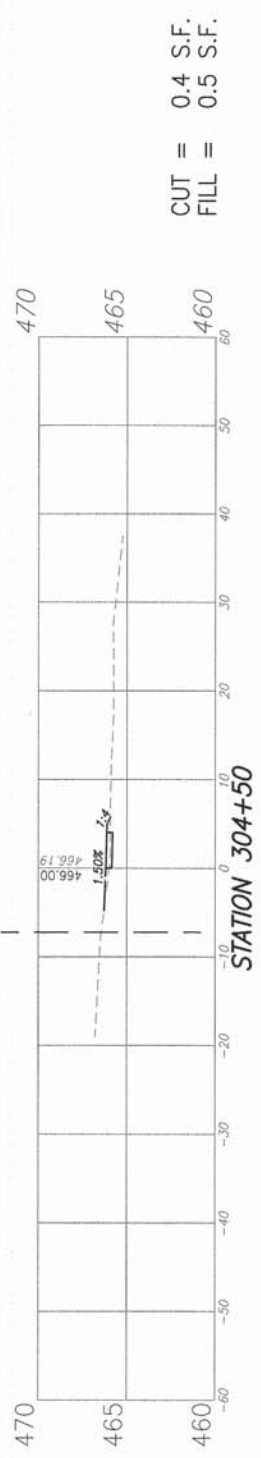
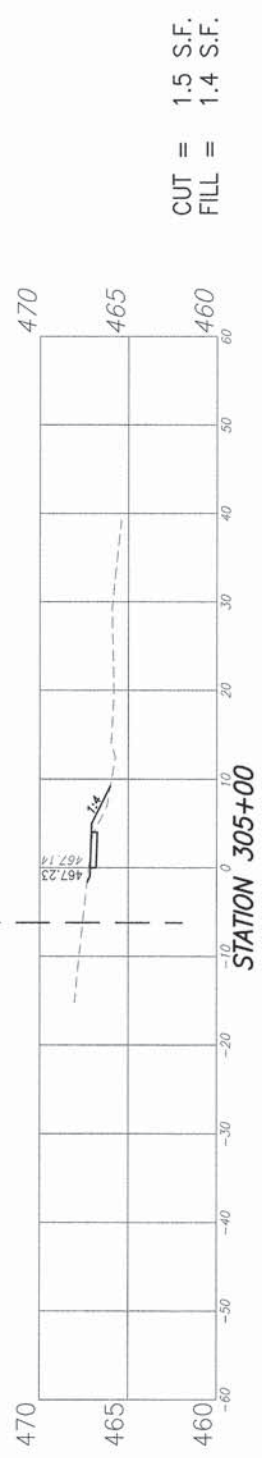
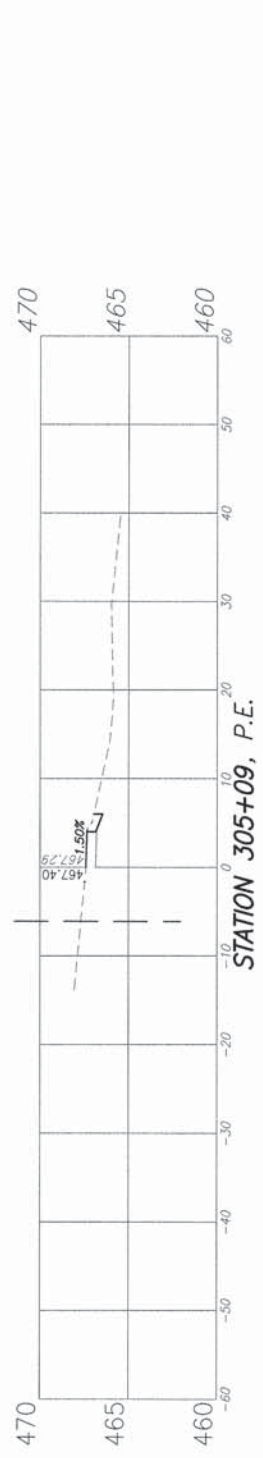
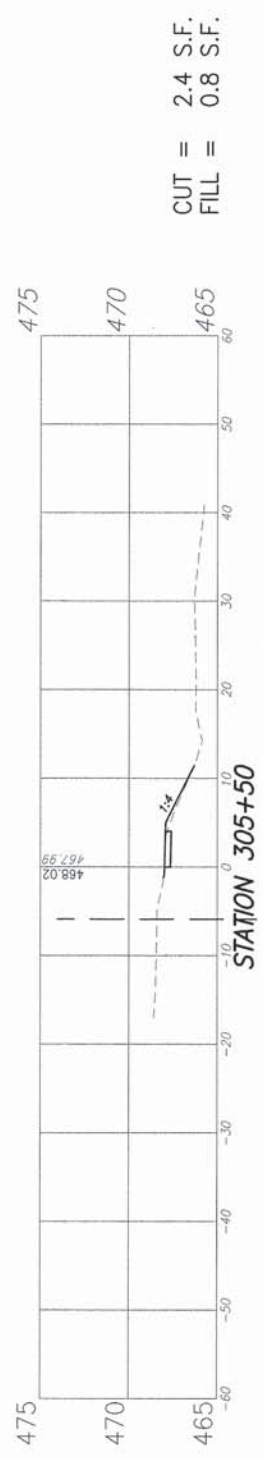
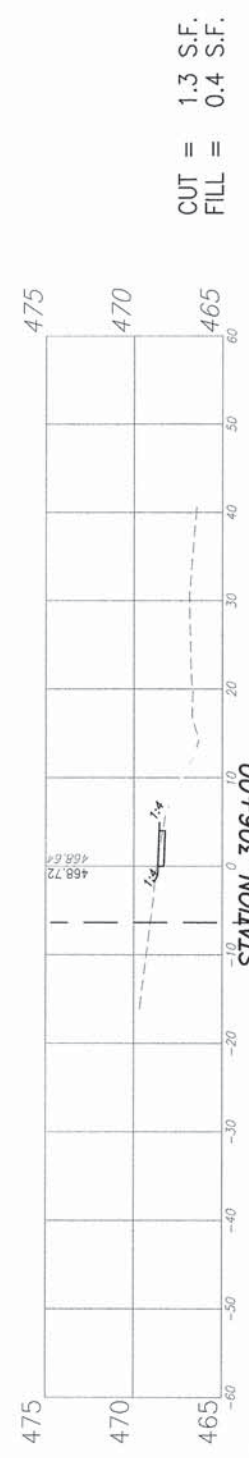
INLETS, SPECIAL NO. 3 - 6.5'X4'  
N.T.S.



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	20
FEDERAL AID PROJECT			CONTRACT 97575	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	21
FEDERAL AID PROJECT			CONTRACT 97575	



CUT = 1.3 S.F.  
FILL = 0.4 S.F.

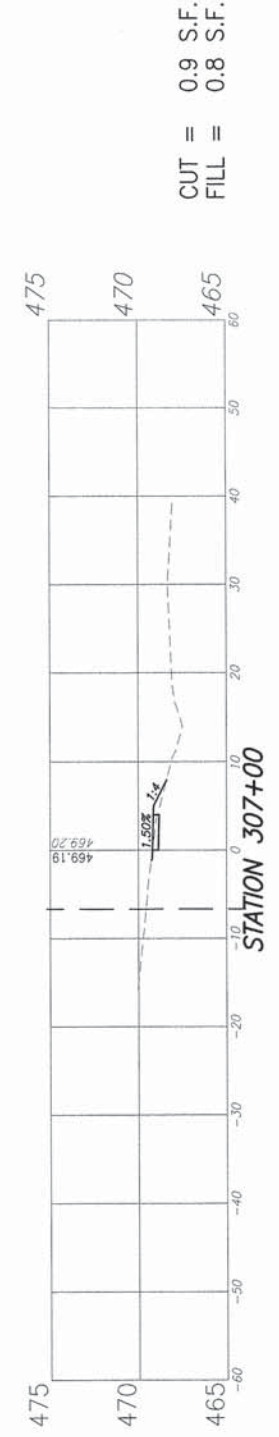
CUT = 2.4 S.F.  
FILL = 0.8 S.F.

CUT = 1.5 S.F.  
FILL = 1.4 S.F.

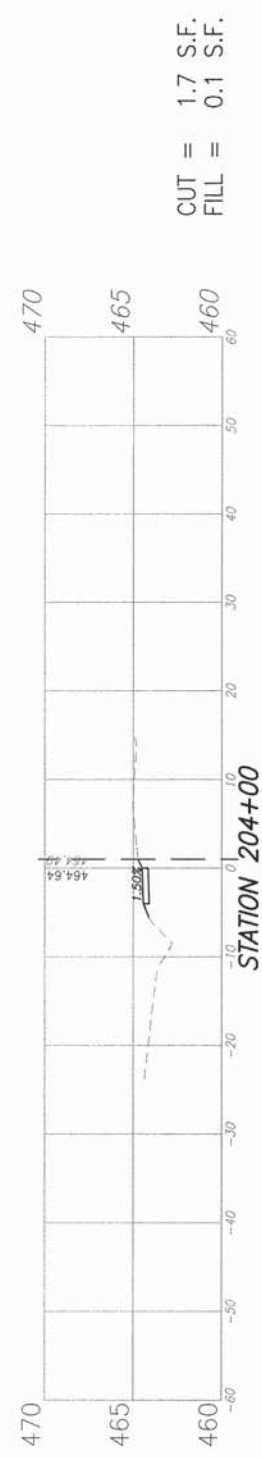
CUT = 0.4 S.F.  
FILL = 0.5 S.F.

CUT = 0.2 S.F.  
FILL = 1.1 S.F.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	22
FEDERAL AID PROJECT			CONTRACT 97575	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	23
FEDERAL AID PROJECT			CONTRACT 97575	



CUT = 1.7 S.F.  
FILL = 0.1 S.F.



CUT = 0.8 S.F.  
FILL = 0.7 S.F.



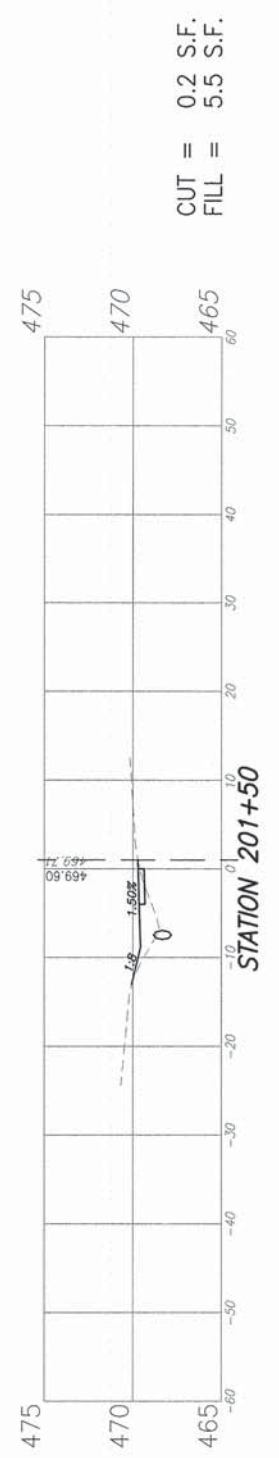
CUT = 0.5 S.F.  
FILL = 1.4 S.F.



CUT = 0.6 S.F.  
FILL = 6.5 S.F.



CUT = 0.6 S.F.  
FILL = 7.0 S.F.



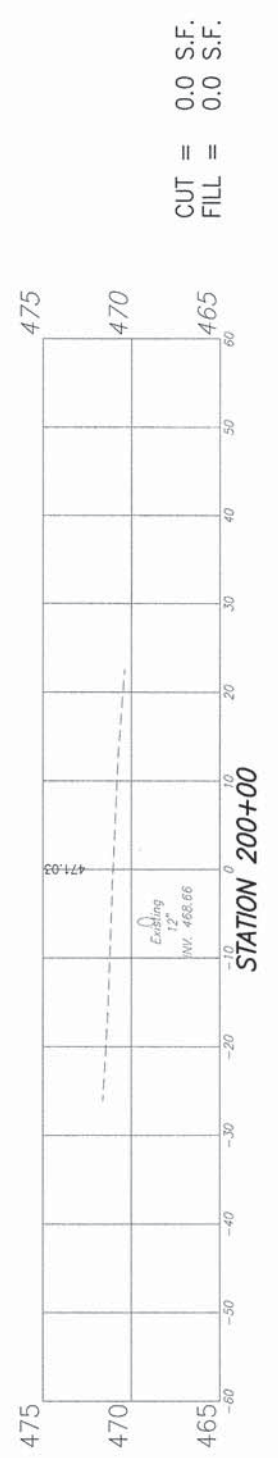
CUT = 0.2 S.F.  
FILL = 5.5 S.F.



CUT = 0.2 S.F.  
FILL = 5.2 S.F.



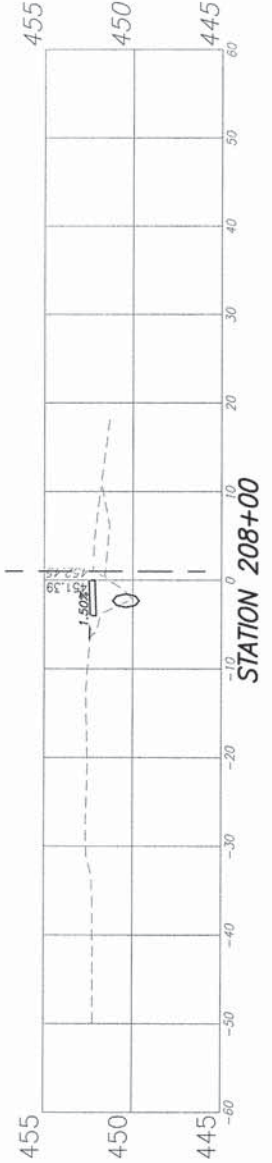
CUT = 1.5 S.F.  
FILL = 0.1 S.F.



CUT = 0.0 S.F.  
FILL = 0.0 S.F.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	24
FEDERAL AID PROJECT			CONTRACT 97575	

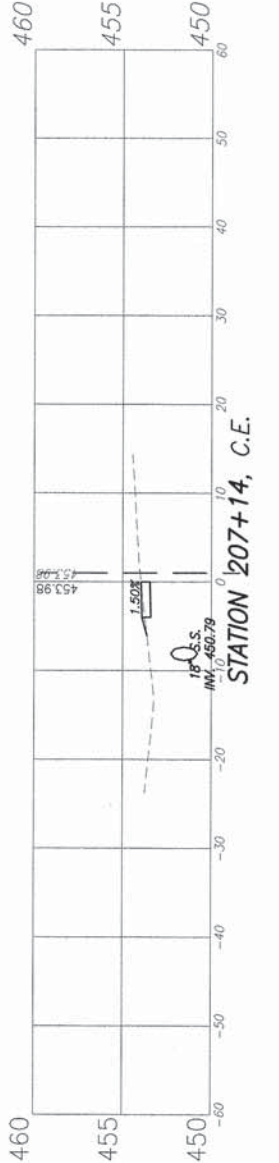
CUT = 0.0 S.F.  
FILL = 5.6 S.F.



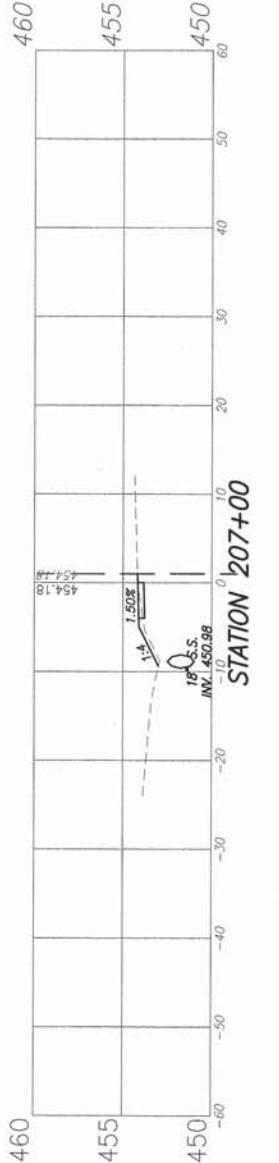
CUT = 0.0 S.F.  
FILL = 2.2 S.F.



CUT = 0.9 S.F.  
FILL = 1.2 S.F.



CUT = 1.2 S.F.  
FILL = 0.1 S.F.



CUT = 1.3 S.F.  
FILL = 0.0 S.F.



CUT = 1.0 S.F.  
FILL = 0.2 S.F.



CUT = 2.8 S.F.  
FILL = 0.0 S.F.

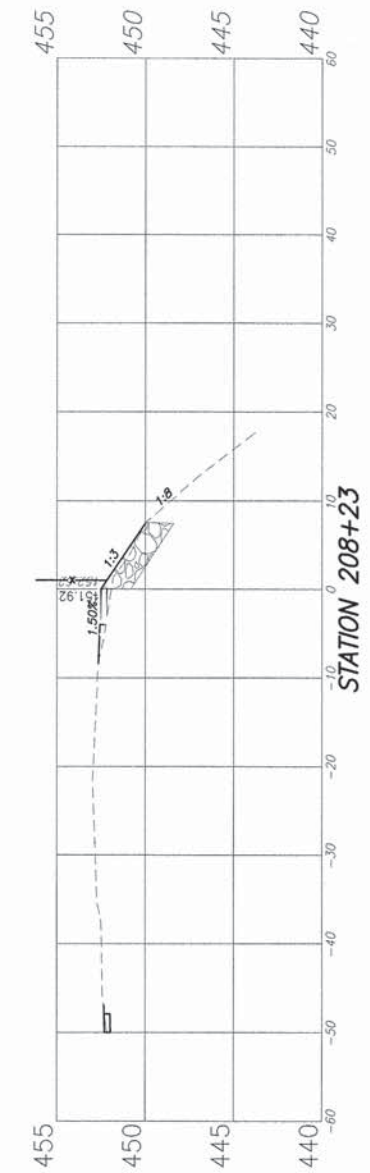


CUT = 0.7 S.F.  
FILL = 0.3 S.F.



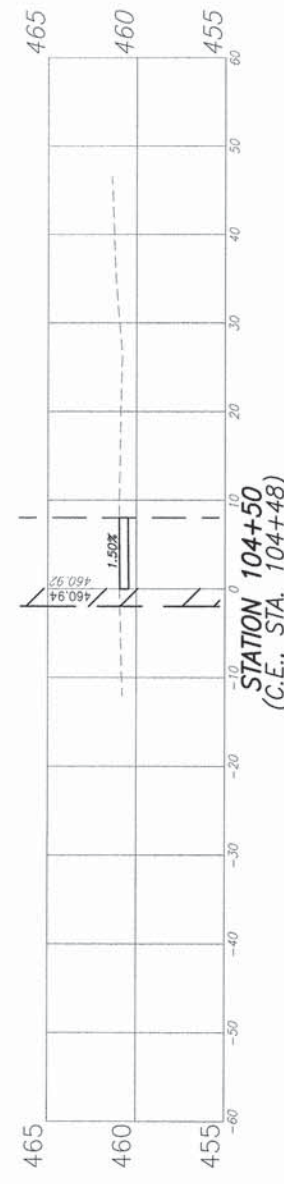


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	25
FEDERAL AID PROJECT			CONTRACT 97575	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	26
FEDERAL AID PROJECT			CONTRACT 97575	

CUT = 4.3 S.F.  
FILL = 0.0 S.F.



STATION 104+50  
(C.E., STA. 104+48)

CUT = 1.5 S.F.  
FILL = 0.0 S.F.



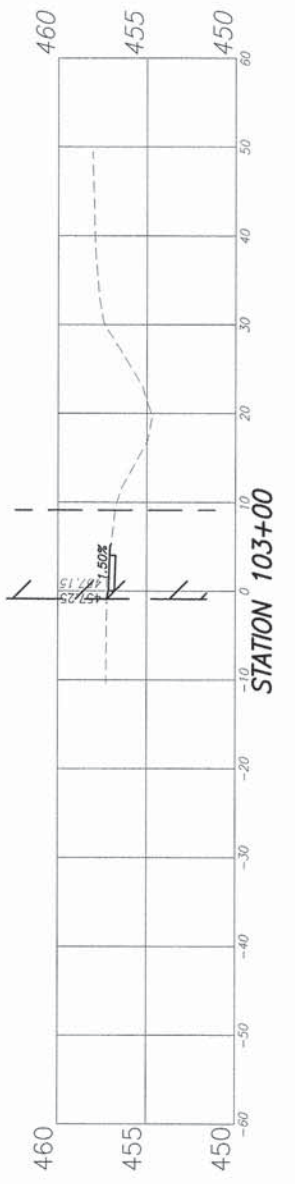
STATION 104+00

CUT = 2.0 S.F.  
FILL = 0.0 S.F.



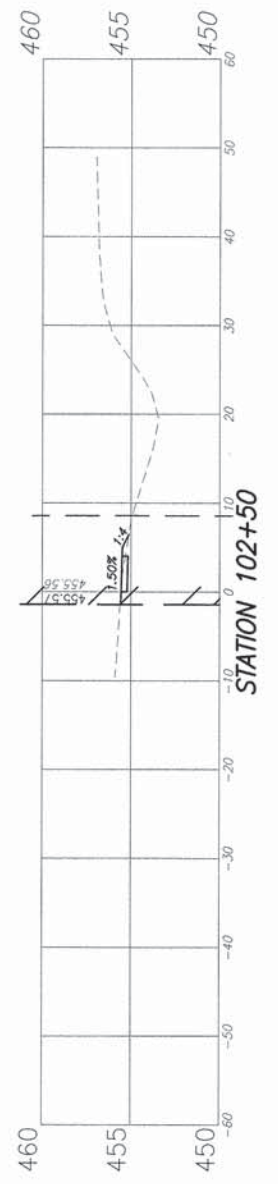
STATION 103+50  
(C.E., STA. 103+43)

CUT = 1.5 S.F.  
FILL = 0.1 S.F.



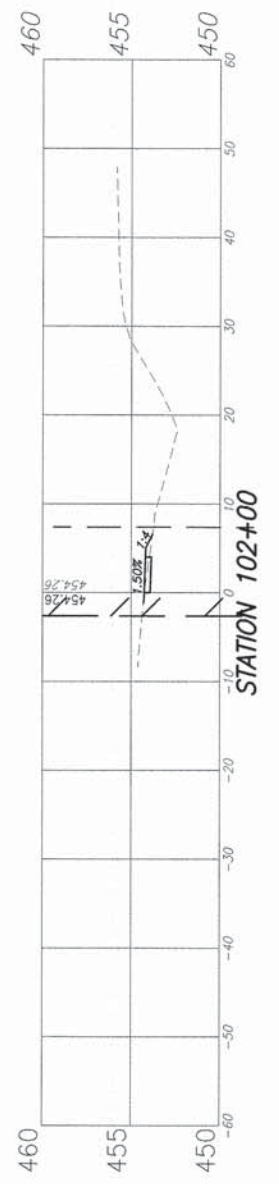
STATION 103+00

CUT = 1.1 S.F.  
FILL = 0.4 S.F.



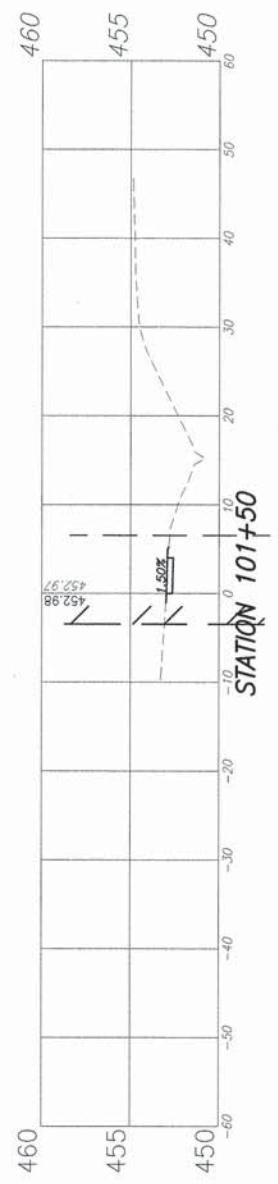
STATION 102+50

CUT = 0.9 S.F.  
FILL = 0.5 S.F.



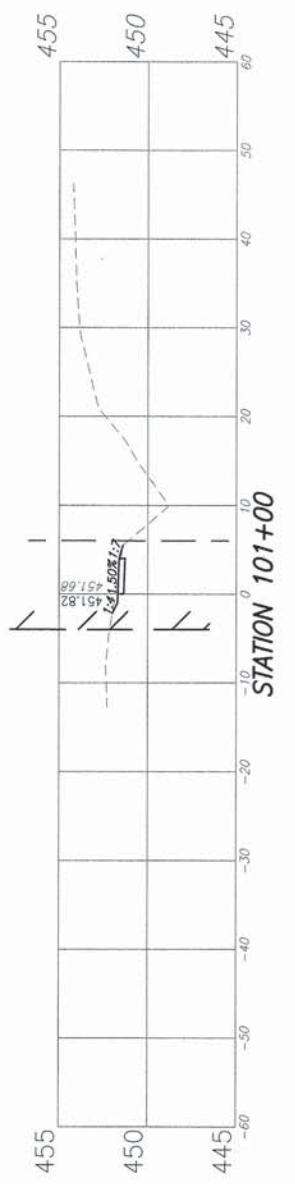
STATION 102+00

CUT = 1.4 S.F.  
FILL = 0.1 S.F.



STATION 101+50

CUT = 1.7 S.F.  
FILL = 0.1 S.F.



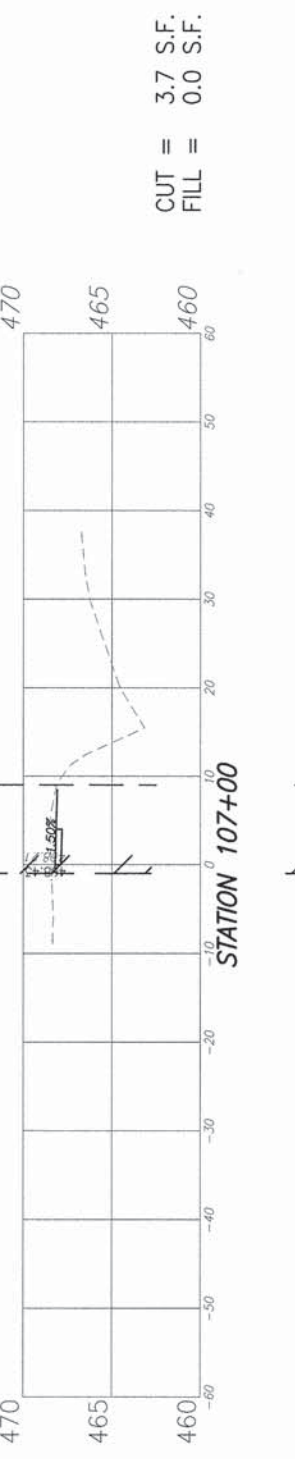
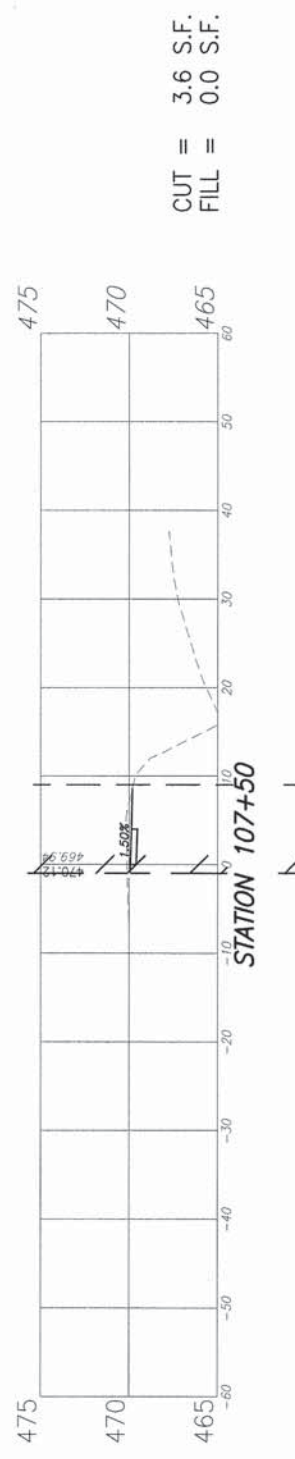
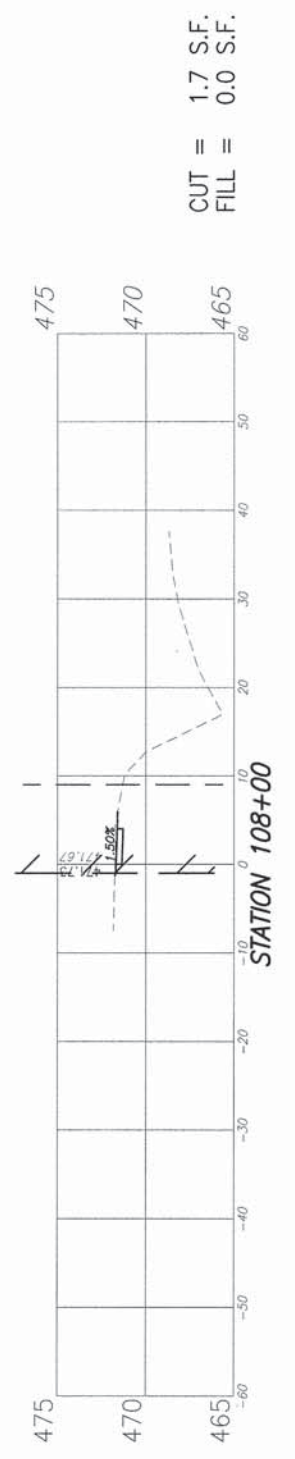
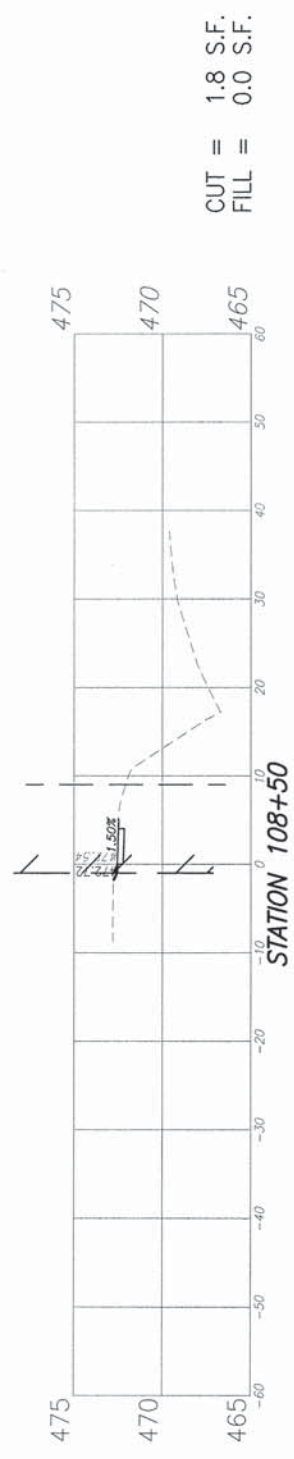
STATION 101+00

CUT = 0.0 S.F.  
FILL = 0.0 S.F.

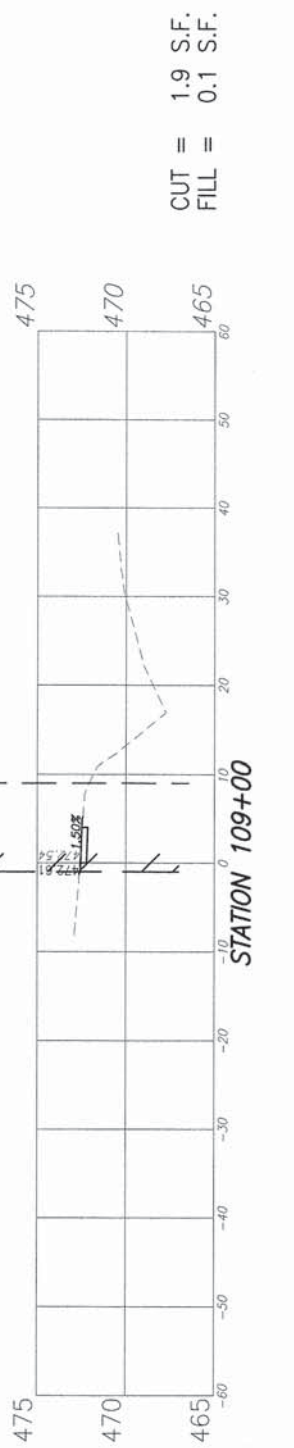
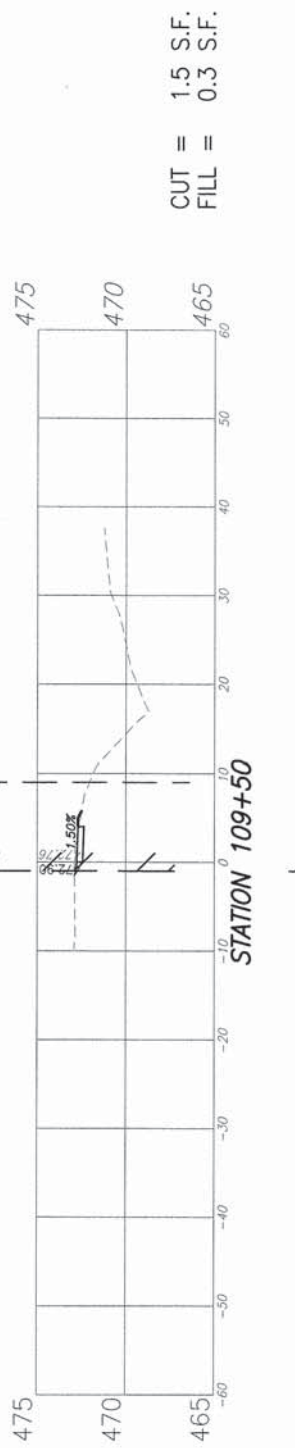
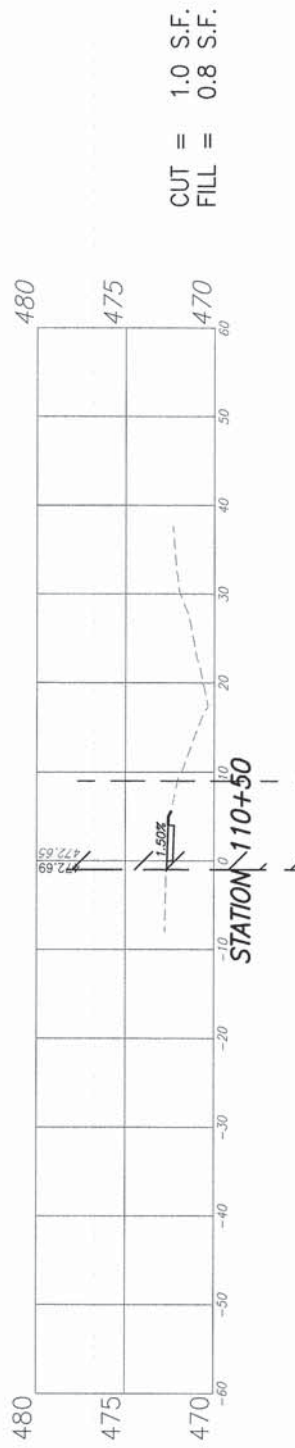
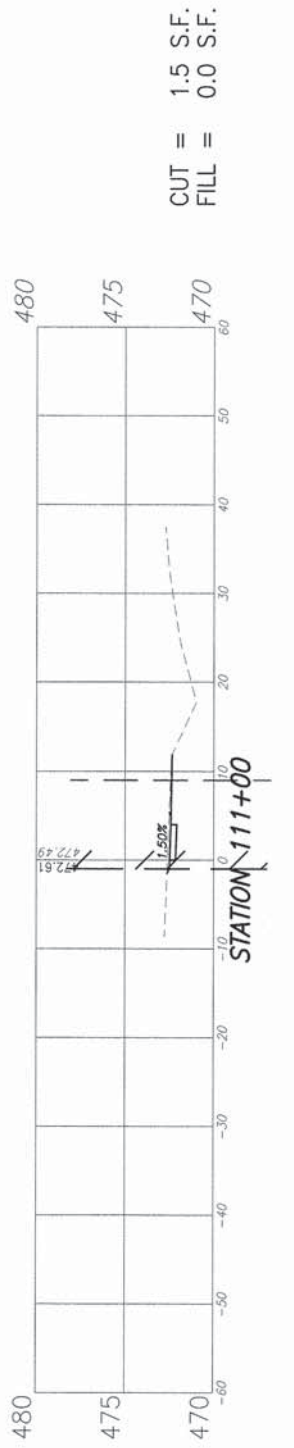
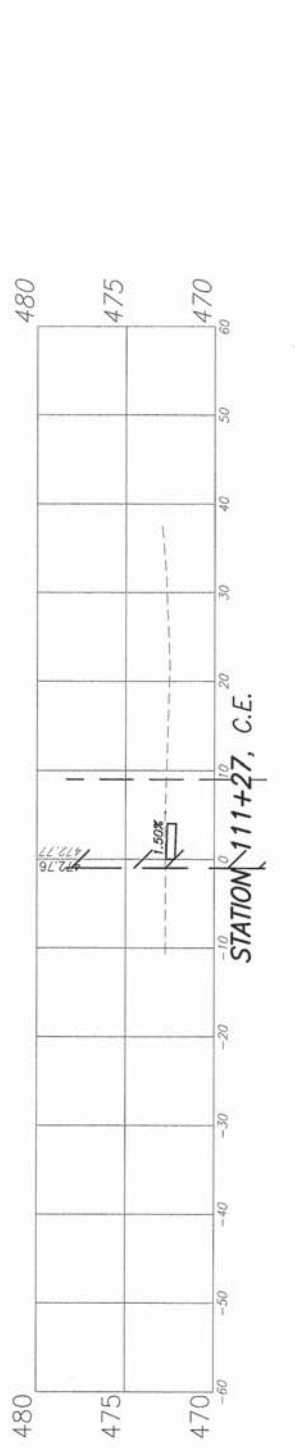
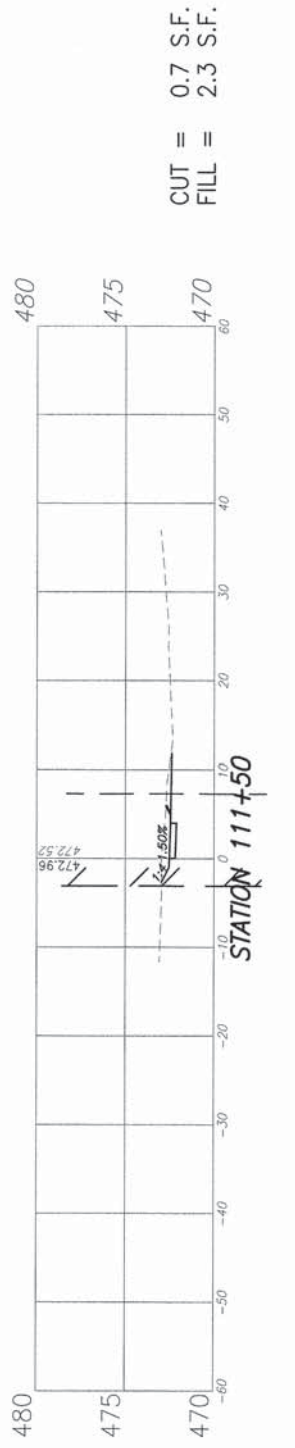
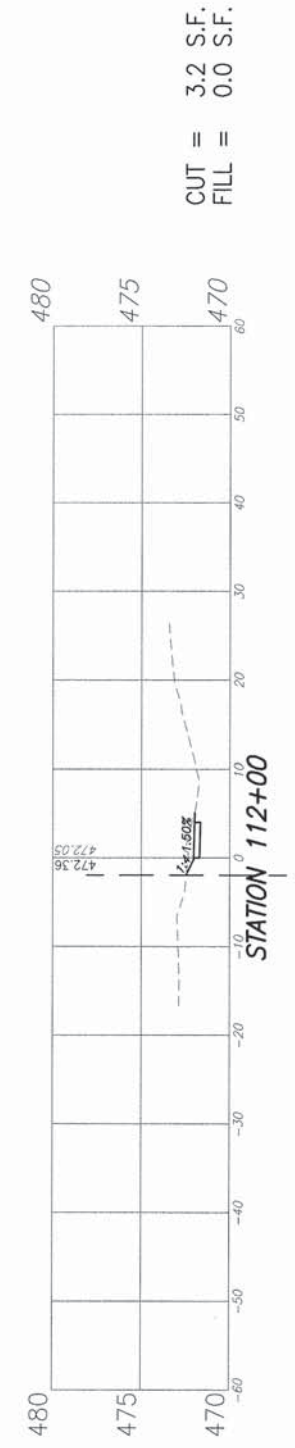
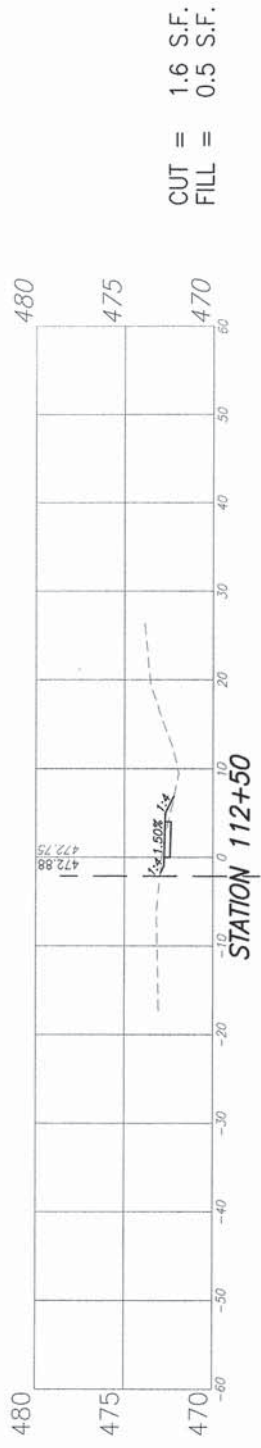


STATION 100+50

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	27
FEDERAL AID PROJECT		CONTRACT 97575		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	28
FEDERAL AID PROJECT			CONTRACT 97575	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	29
FEDERAL AID PROJECT		CONTRACT 97575		



CUT = 0.9 S.F.  
FILL = 0.4 S.F.



CUT = 0.0 S.F.  
FILL = 8.3 S.F.



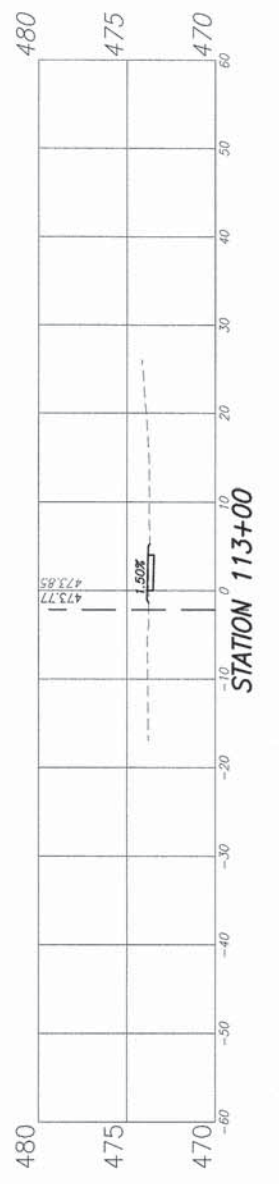
CUT = 3.7 S.F.  
FILL = 0.0 S.F.



CUT = 1.2 S.F.  
FILL = 0.3 S.F.

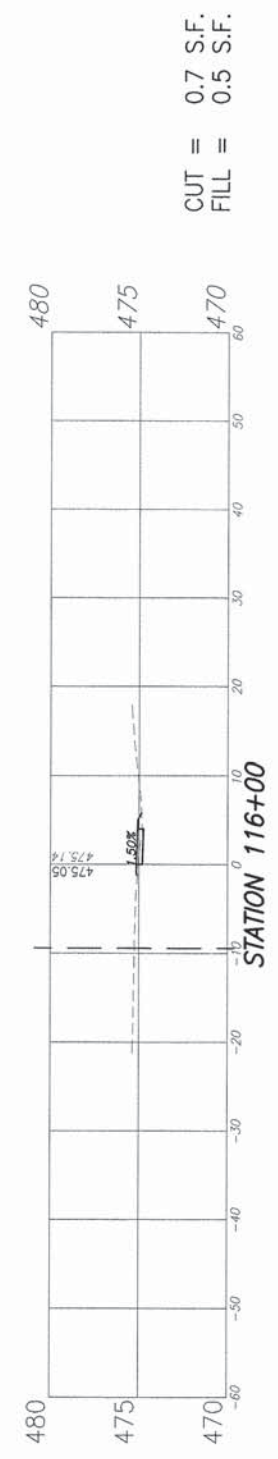
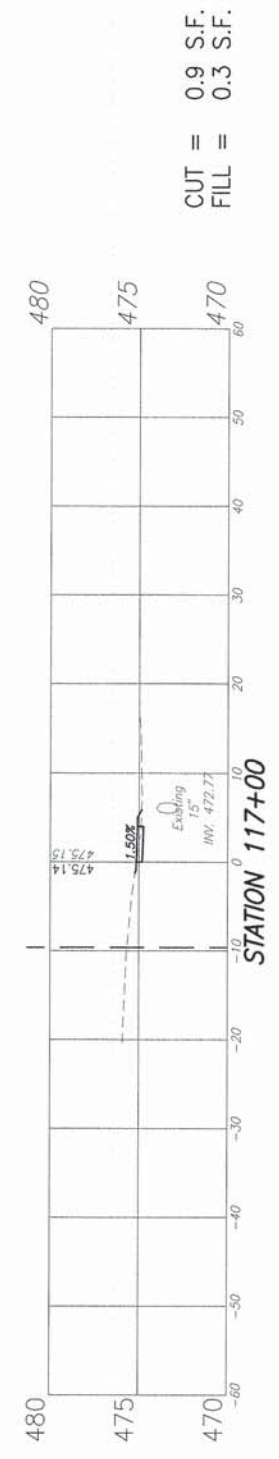
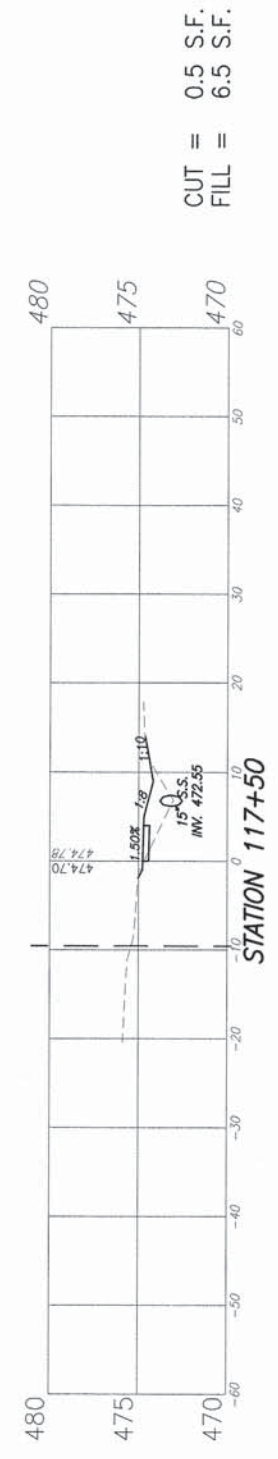
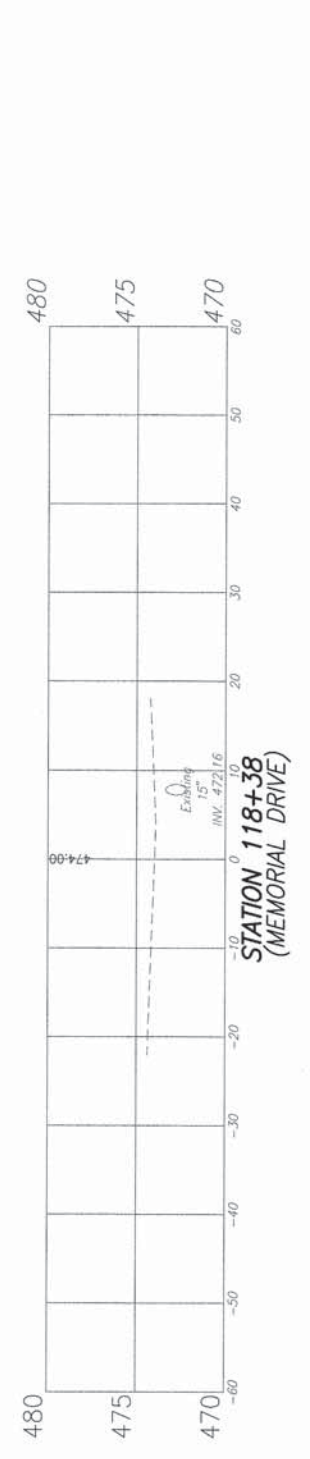


CUT = 0.7 S.F.  
FILL = 1.2 S.F.

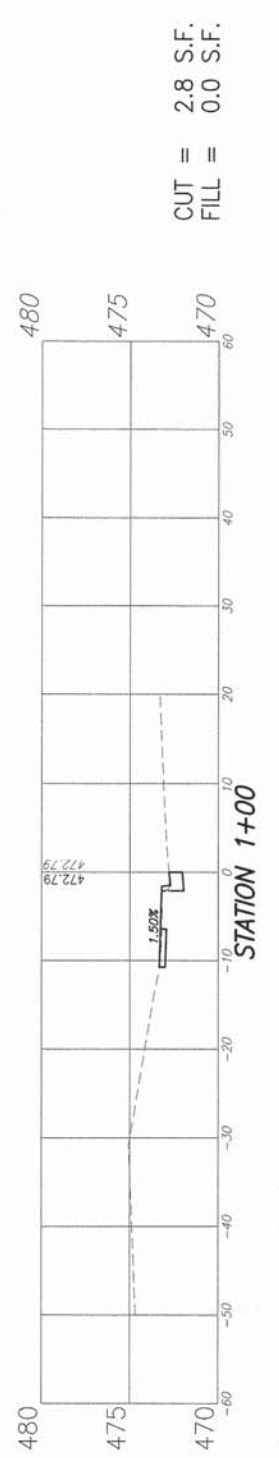
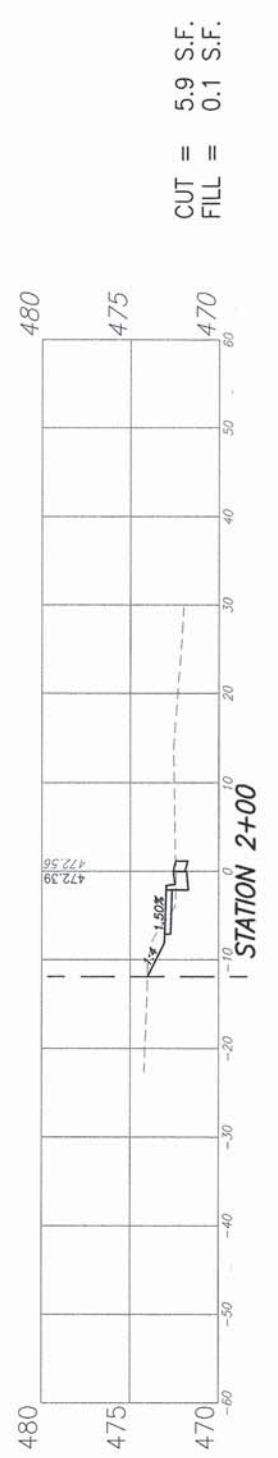
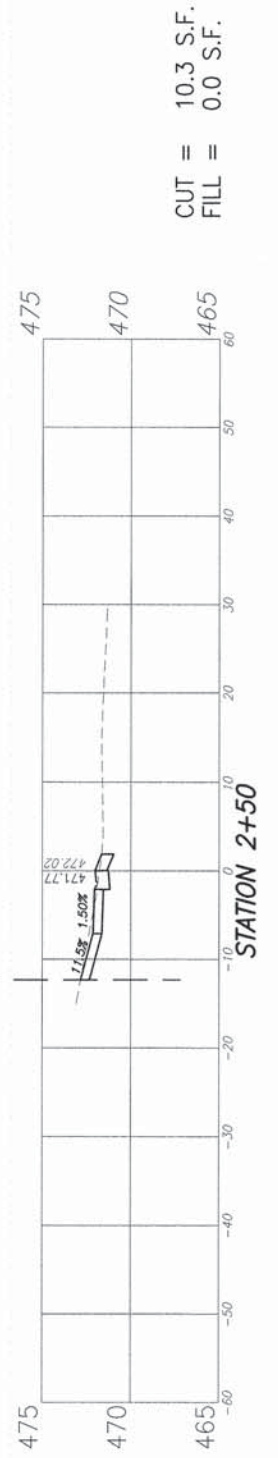
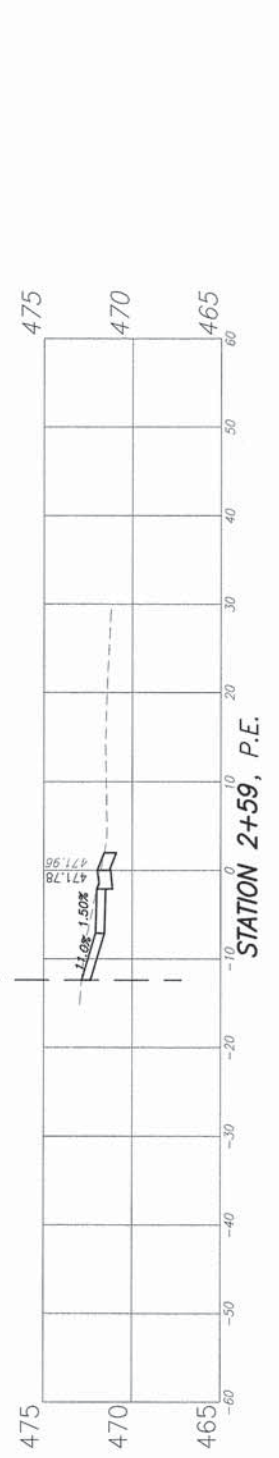
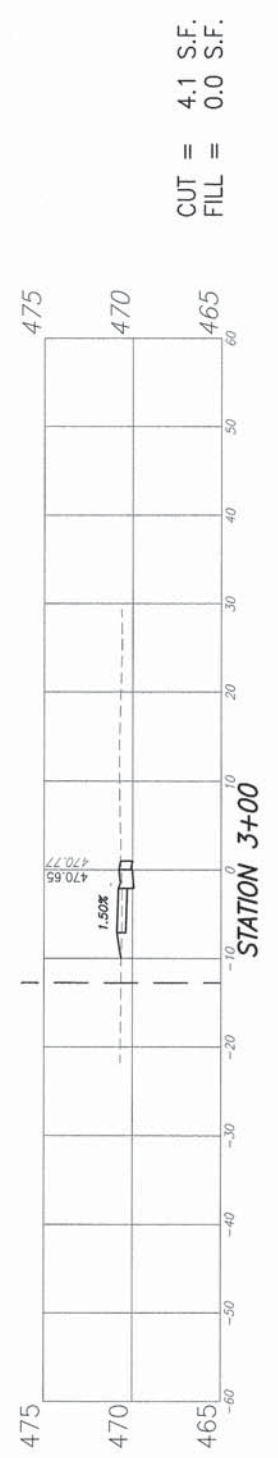
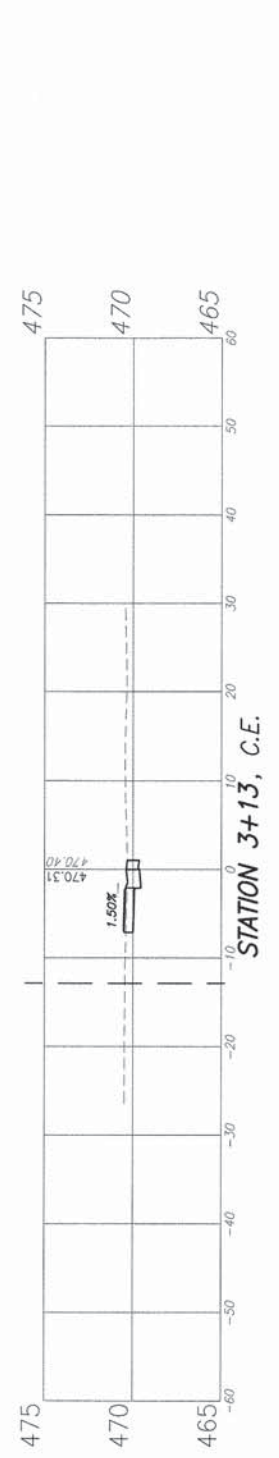
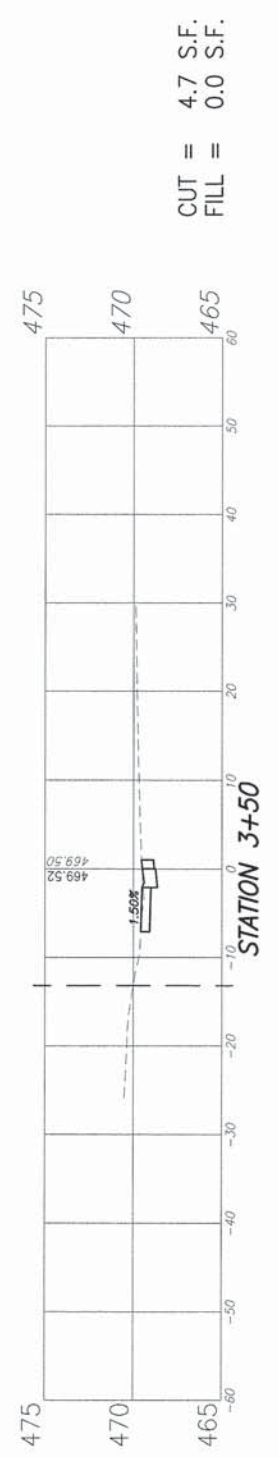
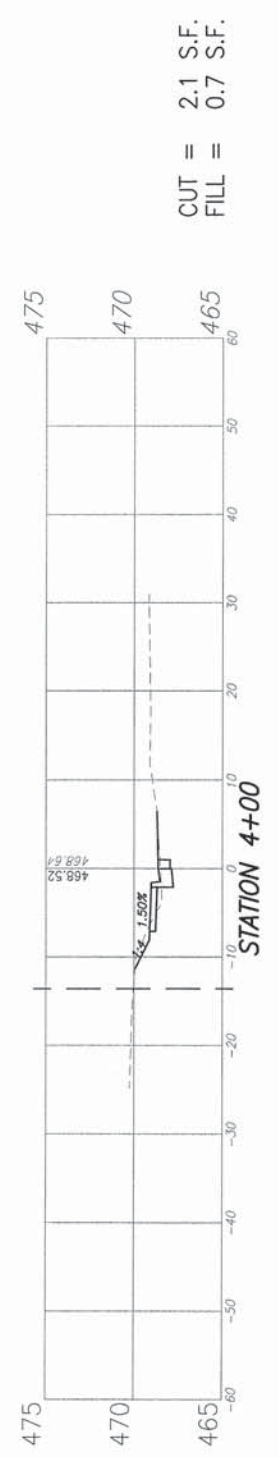


CUT = 1.5 S.F.  
FILL = 0.0 S.F.

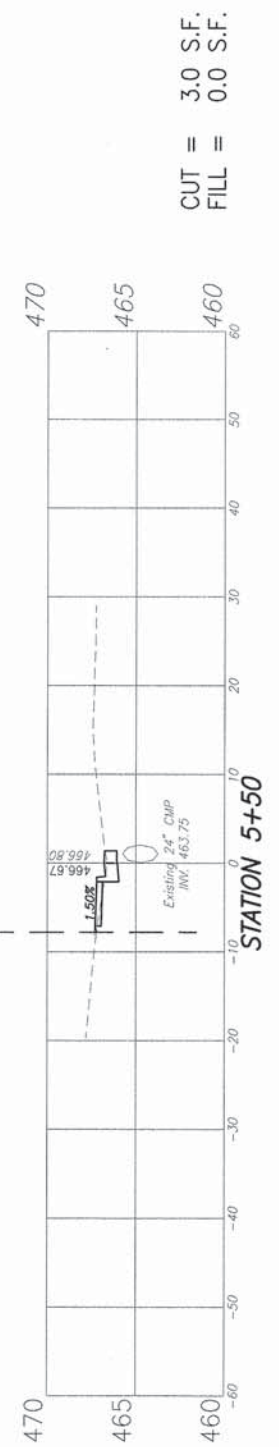
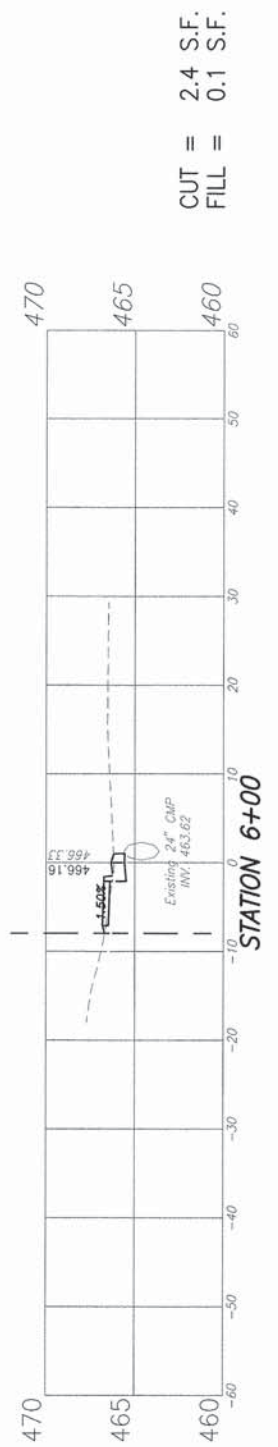
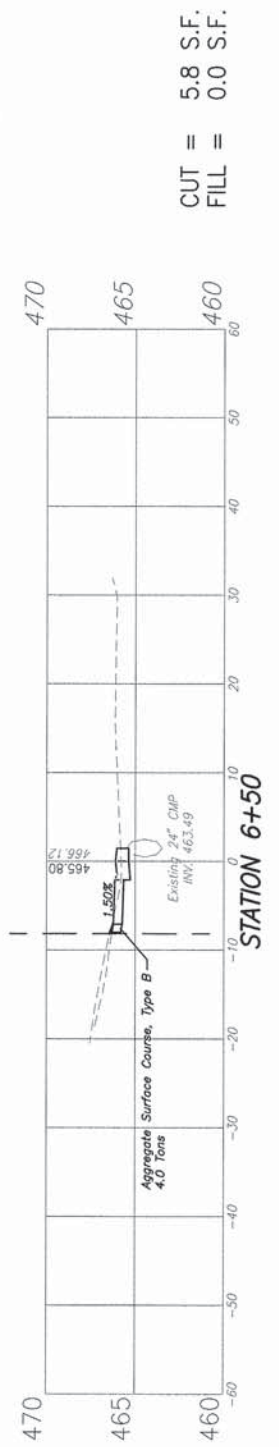
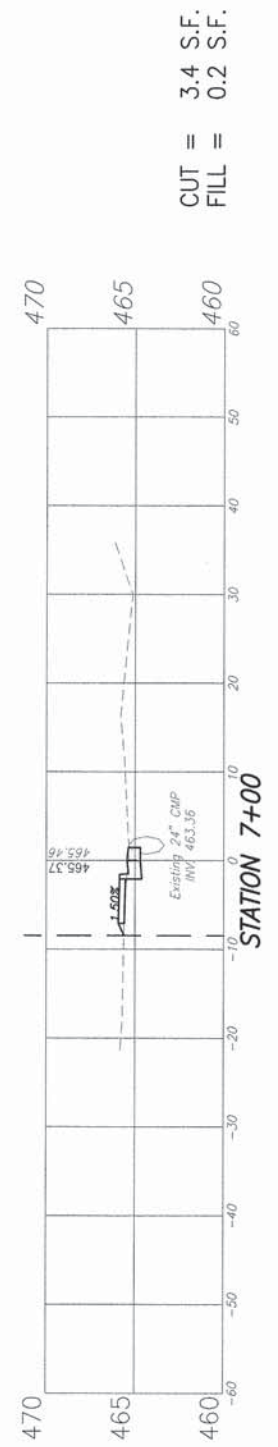
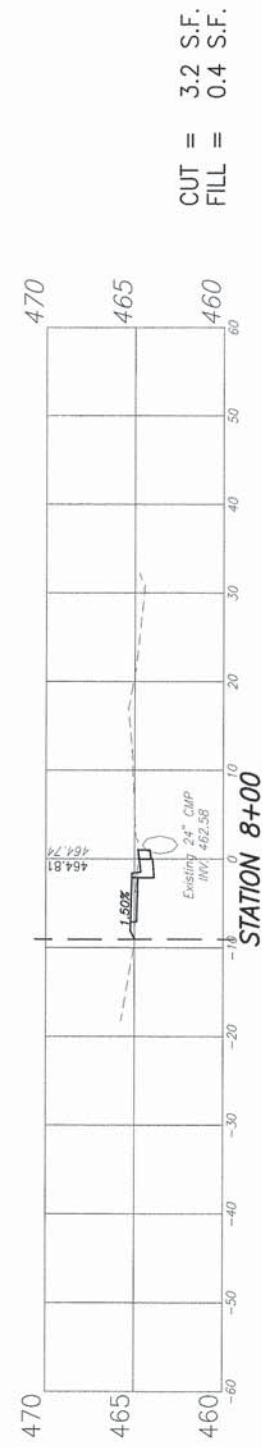
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	30
FEDERAL AID PROJECT			CONTRACT 97575	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	31
FEDERAL AID PROJECT			CONTRACT 97575	

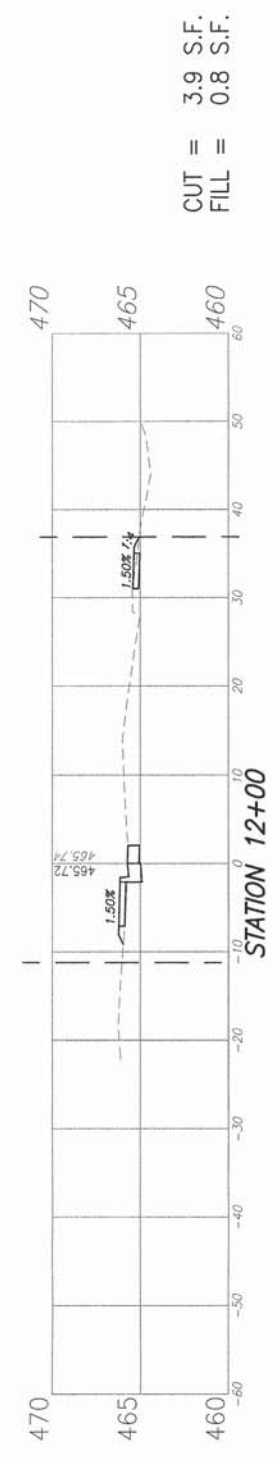


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	32
FEDERAL AID PROJECT			CONTRACT 97575	

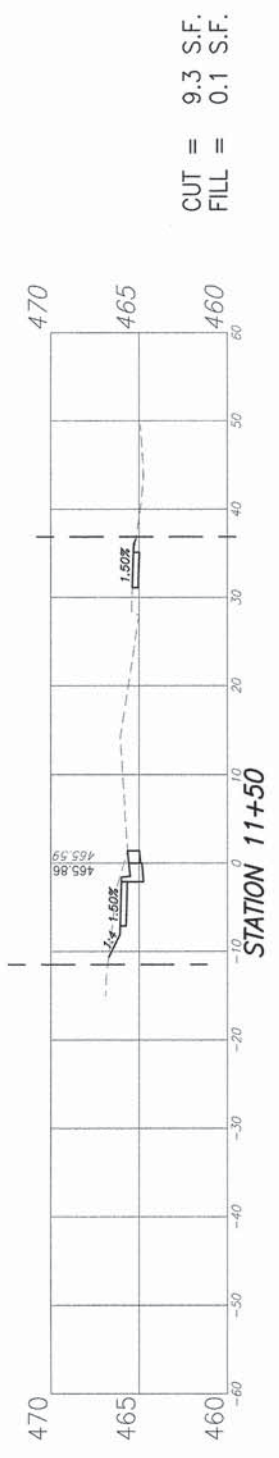




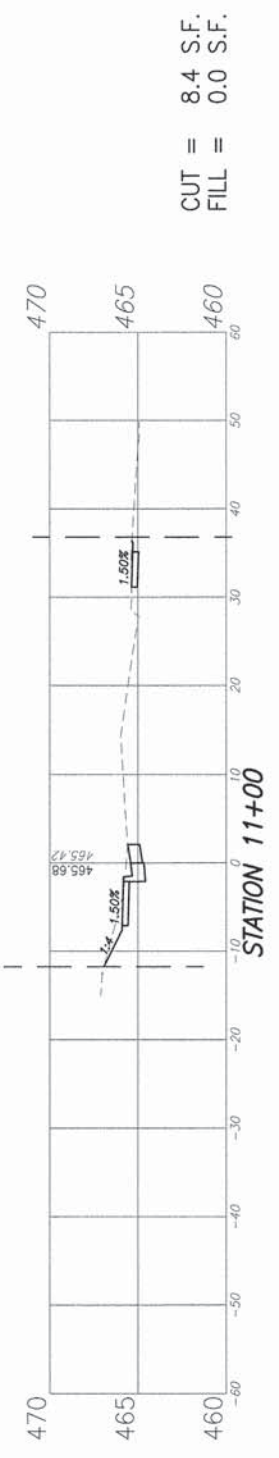
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
xxxx	12-00008-00-SW	ST. CLAIR	33	33
FEDERAL AID PROJECT			CONTRACT 97575	



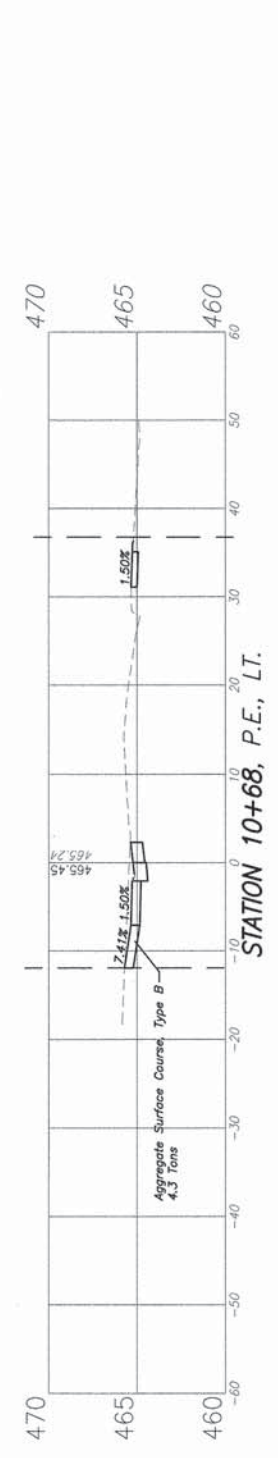
CUT = 3.9 S.F.  
FILL = 0.8 S.F.



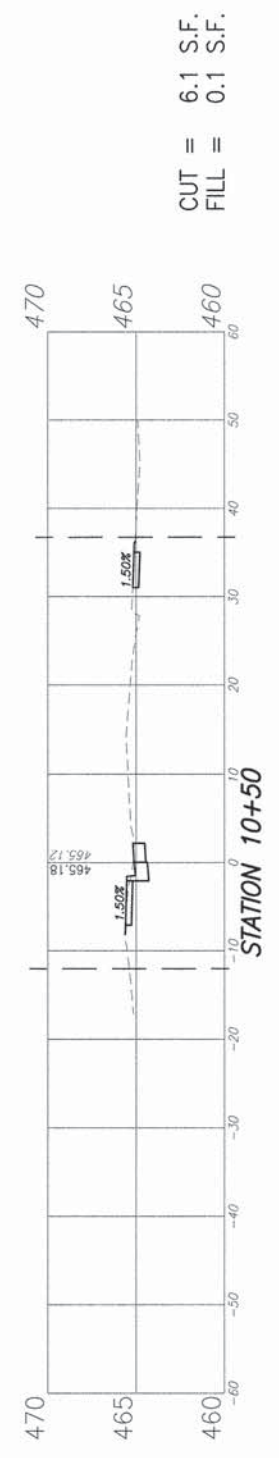
CUT = 9.3 S.F.  
FILL = 0.1 S.F.



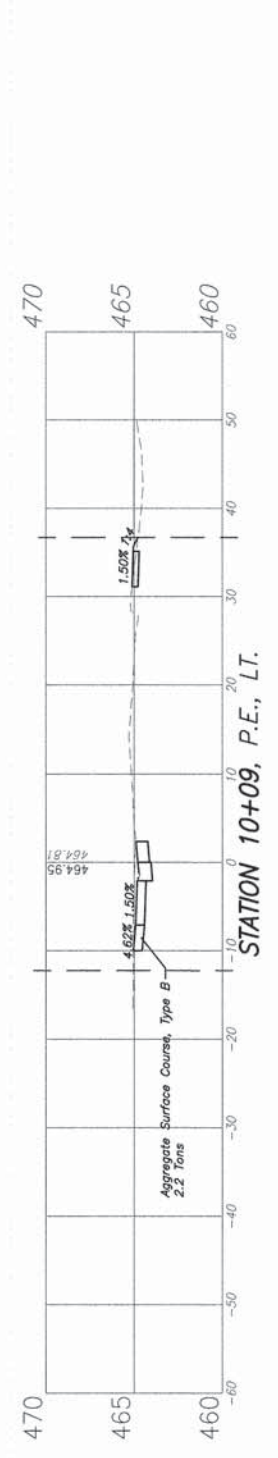
CUT = 8.4 S.F.  
FILL = 0.0 S.F.



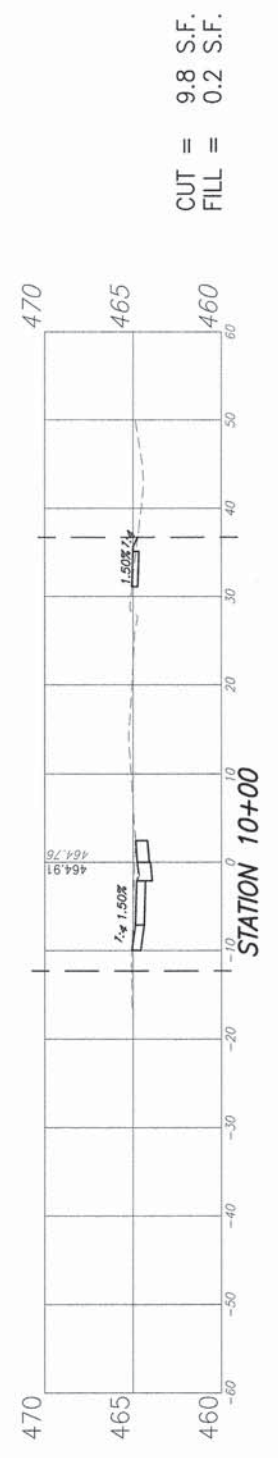
CUT = 6.1 S.F.  
FILL = 0.1 S.F.



CUT = 9.8 S.F.  
FILL = 0.2 S.F.



CUT = 4.3 S.F.  
FILL = 1.7 S.F.



CUT = 7.8 S.F.  
FILL = 3.9 S.F.

