

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

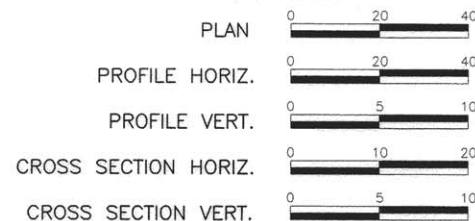
**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**
SURFACE TRANSPORTATION / ENHANCEMENT PROGRAM
ILLINI BIKE TRAIL AND SIDEWALK IMPROVEMENTS
SECTION 14-00066-00-BT
PROJECT NO. TE-00D8(197)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-352-14

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	1
FEDERAL AID PROJECT			CONTRACT 97632	

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES, HIGHWAY STANDARDS & UTILITIES
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- 9.-10. CONSTRUCTION SCHEDULES
- 11.-24. ROADWAY PLAN AND PROFILE
25. DRAINAGE PROFILES
- 26.-27. BICYCLE RAILING (PARAPET MOUNTED) DETAILS
28. TRAFFIC CONTROL PLAN
- 29.-38. CROSS SECTIONS

SCALES:



DESIGN DESIGNATION

ILLINI TRAIL

CLASSIFICATION = SHARED-USE PATH
 DESIGN SPEED = 20 MPH
 DESIGN YEAR ADT - N/A

STATE STREET

CLASSIFICATION = MINOR ARTERIAL
 DESIGN SPEED = 35 MPH
 DESIGN YEAR ADT (2035) - 2,300

LINCOLN AVENUE (STATE STREET TO HIGHWAY 50)

CLASSIFICATION = MINOR ARTERIAL
 DESIGN SPEED = 30 MPH
 DESIGN YEAR ADT (2035) - 9,150

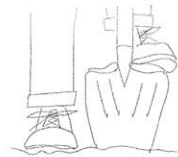
LINCOLN AVENUE (HIGHWAY 50 TO I-64)

CLASSIFICATION = MINOR ARTERIAL
 DESIGN SPEED = 35 MPH
 DESIGN YEAR ADT (2035) - 13,500

CROSS STREET (I-64 TO FRANK SCOTT PARKWAY)

CLASSIFICATION = MINOR ARTERIAL
 DESIGN SPEED = 50 MPH
 DESIGN YEAR ADT (2035) - 14,000

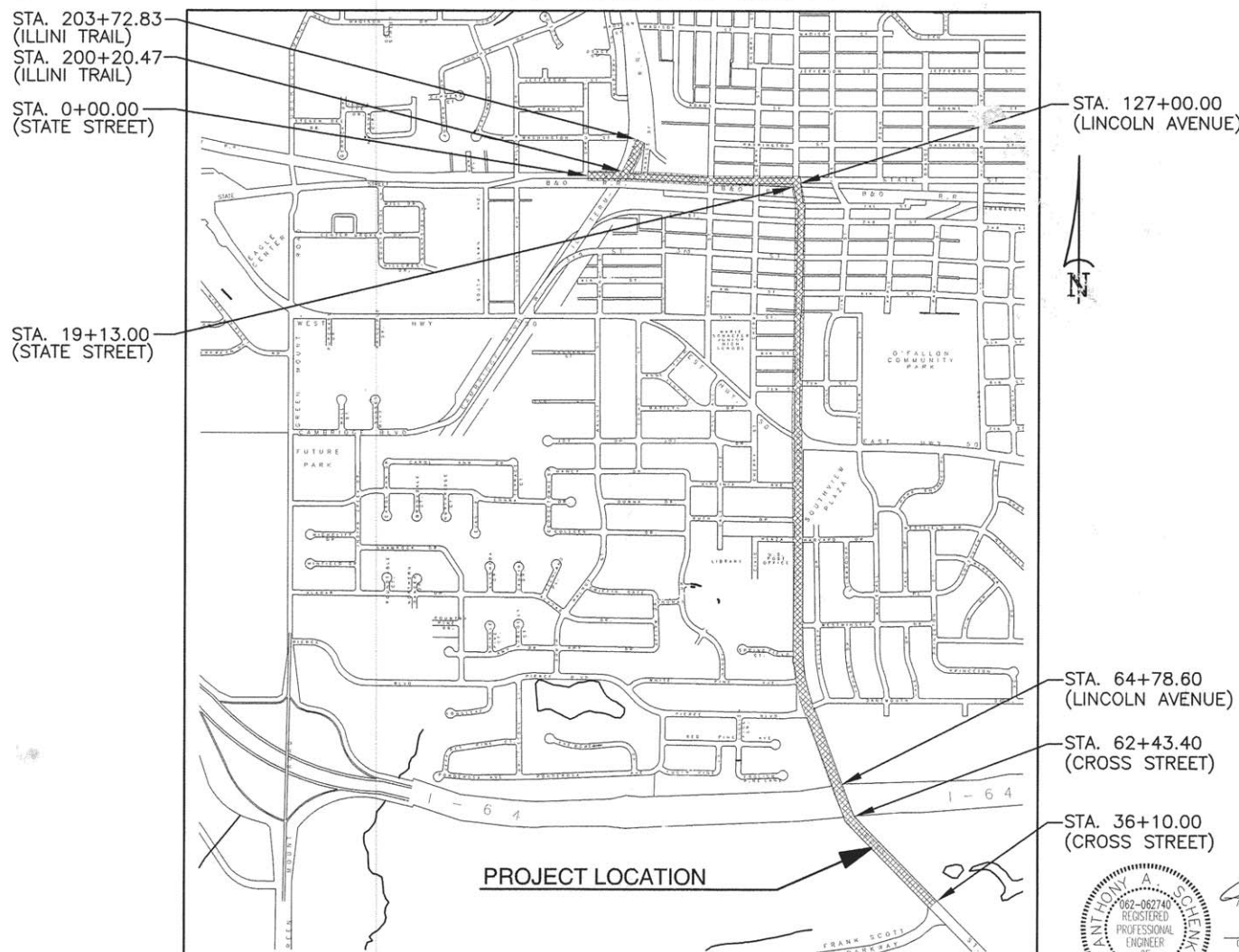
HOLD IT ! CALL BEFORE YOU DIG !
Phone J.U.L.I.E.



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



LOCATION MAP
NOT TO SCALE

ILLINI TRAIL - STA. 200+20.47 TO 203+72.83	352.36 FT. = 0.067 MILES
STATE STREET - STA. 0+00.00 TO 19+13.00	1913.00 FT. = 0.362 MILES
LINCOLN AVENUE - STA. 64+78.60 TO STA. 127+00.00	6221.40 FT. = 1.178 MILES
CROSS STREET - STA. 36+10.00 TO 62+43.40	2633.40 FT. = 0.499 MILES
NET LENGTH OF IMPROVEMENT	11120.16 FT. = 2.106 MILES



Professional Engineer Seal for Anthony A. Schenk, Registered Professional Engineer of Illinois, No. 062-082740. Signature and date of signing (5/12/16) and date of license expiration (4/30/17).

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED: 5/19/16 DATE
 [Signature] MAYOR, CITY OF O'FALLON

PASSED: _____ DATE
 _____ DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: _____ DATE
 _____ REGION FIVE ENGINEER

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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

GENERAL NOTES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9154 9173	14-00066-00-BT	ST. CLAIR	38	2
FEDERAL AID PROJECT			CONTRACT 97632	

1. ALL CONSTRUCTION SHALL BE ACCORDING TO ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.
2. THE CONTRACTOR SHALL TAKE CARE NOT DAMAGE THE EXISTING EDGE LINE DURING HMA MILLING AND OTHER OPERATIONS. IF THE EDGE LINE IS DAMAGED THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING IT TO ITS ORIGINAL CONDITION WITH NO ADDITIONAL COMPENSATION.
3. THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES AT LOCATIONS SHOWN ON THE CROSS SECTIONS AND AS DETERMINED BY THE ENGINEER.
4. ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04 AND SHALL BE INCLUDED IN THE COST OF THE SEEDING.
5. THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ANY ROCKS OR FOREIGN DEBRIS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND CONSTRUCTION.
7. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

APPLICATION RATES	
SEEDING	
MULCH METHOD 2	2 Tons/acre
NITROGEN FERTILIZER NUTRIENT	90 Lbs/acre
PHOSPHORUS FERTILIZER NUTRIENT	90 Lbs/acre
POTASSIUM FERTILIZER NUTRIENT	90 Lbs/acre
TEMPORARY EROSION CONTROL SEEDING	100 Lbs/acre
PAVING	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.025 LBS/SQ FT (FOG COAT) 0.25 LBS/SQ FT (AGG. BASE)
AGGREGATE BASE COURSE	0.0555 TONS/SQ. YD./INCH
8. 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.

9. "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".
10. 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.
11. 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.
12. 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.
13. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURBS AFTER NOVEMBER 1 AND PRIOR TO APRIL 15.
14. CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS, WHEN TRANSITIONS FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
15. WHERE 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 COMBINATION CONCRETE CURB AND GUTTER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. EXISTING ROAD SIGNS NOTED FOR REMOVAL (TBR) SHALL BE DONE SO BY THE CONTRACTOR AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
17. HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC ENTRANCES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PCC DRIVEWAY PAVEMENT OF THICKNESS SPECIFIED. IN ADDITION THE CONTRACTOR SHALL STAGE THE WORK IN SUCH A WAY THAT VEHICULAR ACCESS TO THE PARKING AREA IS MAINTAINED AT ALL TIMES. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY REQUIRED STAGING IN ORDER TO COMPLY WITH THE ABOVE.
18. ALL TREE TRIMMING OR PRUNING SHALL BE DONE BETWEEN OCTOBER 15 AND APRIL 15.

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 OFALLON	618-624-4500 EXT. 3	HEIDE BELL
SEWER	CITY OF OFALLON	618-624-4500 EXT. 3	HEIDE BELL
CABLE	CHARTER COMMUNICATIONS	618-374-7058	SARAH BISHOP
TELEPHONE	AT&T ILLINOIS	618-346-6422	DEAN LITZENBURG

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	701101-05	701501-06
424001-08	701106-02	701801-06
424016-02	701400-08	701901-05
602301-04	701406-10	720001-01
602306-03	701426-08	720006-04
602601-04	701428-01	729001-01
604001-04	701446-07	805001-01
604036-03		
606001-06		

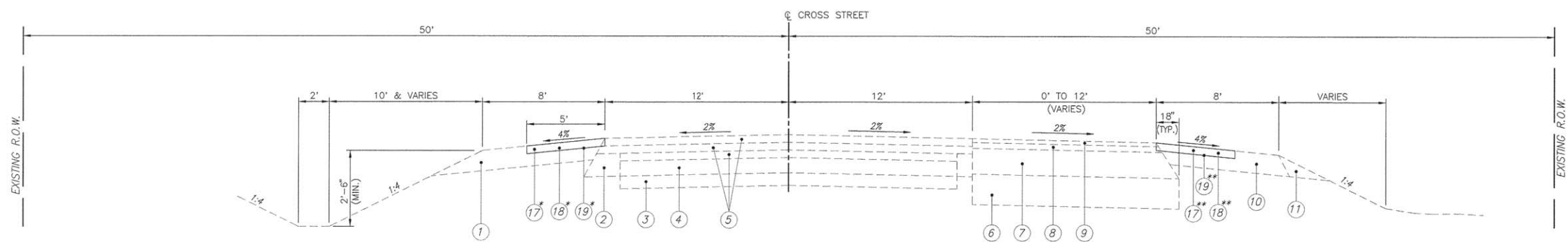
SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	182
20400800	FURNISHED EXCAVATION	CU YD	370
25000200	SEEDING, CLASS 2	ACRE	0.7
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63
25100115	MULCH, METHOD 2	ACRE	0.7
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70
28000500	INLET AND PIPE PROTECTION	EACH	3
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	450
30201500	LIME	TON	9
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	450
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	25
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,752
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	63
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	679
42001300	PROTECTIVE COAT	SQ YD	58
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	73
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	9,962
42400800	DETECTABLE WARNINGS	SQ FT	261
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	4,040
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	73
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	264
44000600	SIDEWALK REMOVAL	SQ FT	834
50105220	PIPE CULVERT REMOVAL	FOOT	48
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	60
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	295
56109210	WATER VALVES TO BE ADJUSTED	EACH	1
60100955	PIPE DRAINS 15"	FOOT	33
60100965	PIPE DRAINS 18"	FOOT	30
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	3
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	2
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	246
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	18
67100100	MOBILIZATION	L SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	139
72900100	METAL POST - TYPE A	FOOT	117
72900200	METAL POST - TYPE B	FOOT	160
73000100	WOOD SIGN SUPPORT	FOOT	54
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,523
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	1,204
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	322
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	913
X0322939	RELOCATE EXISTING FLARED END SECTION	EACH	3
* X2300006	BICYCLE RAILING (PARAPET MOUNTED)	FOOT	512
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0004002	BOLLARDS	EACH	6

* SPECIALTY ITEM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	3
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	4
FEDERAL AID PROJECT			CONTRACT 97632	

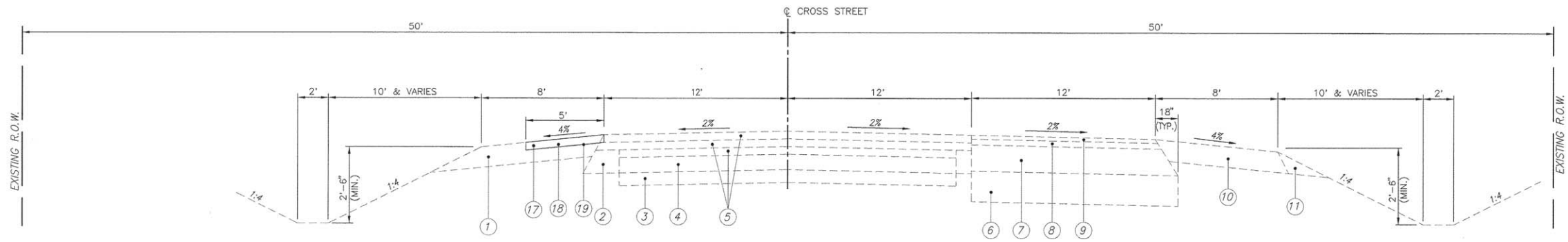


TYPICAL SECTION

N.T.S.
CROSS STREET
STA. 36+10 TO STA. 48+03.92

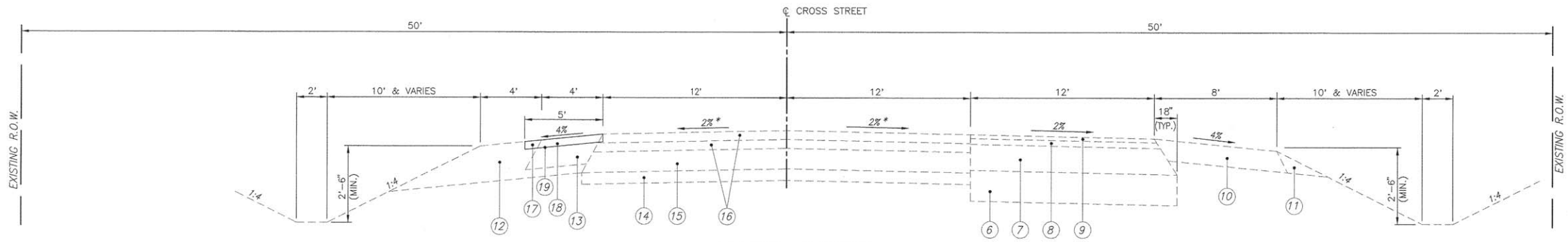
* BEGIN SHOULDER IMPROVEMENTS AT STATION 36+41
END SHOULDER IMPROVEMENTS AT STATION 37+04
BEGIN SHOULDER IMPROVEMENTS AT STATION 39+14

** BEGIN SHOULDER IMPROVEMENTS AT STATION 38+71
END SHOULDER IMPROVEMENTS AT STATION 43+10



TYPICAL SECTION

N.T.S.
CROSS STREET
STA. 48+03.92 TO STA. 53+40.61



TYPICAL SECTION

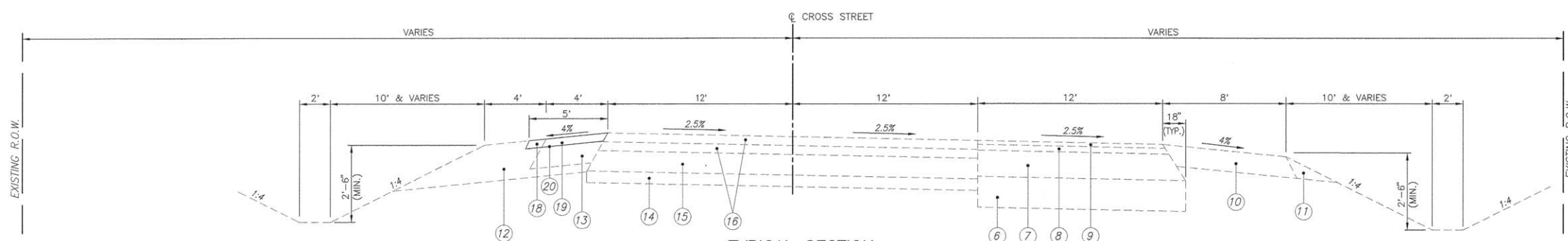
N.T.S.
CROSS STREET
STA. 53+40.61 TO STA. 56+85.45

* CROSS SLOPE TRANSITIONS FROM 2% (NORMAL CROWN) TO 2.5% (SUPERELEVATED) STA. 55+17.87 TO 56+85.45

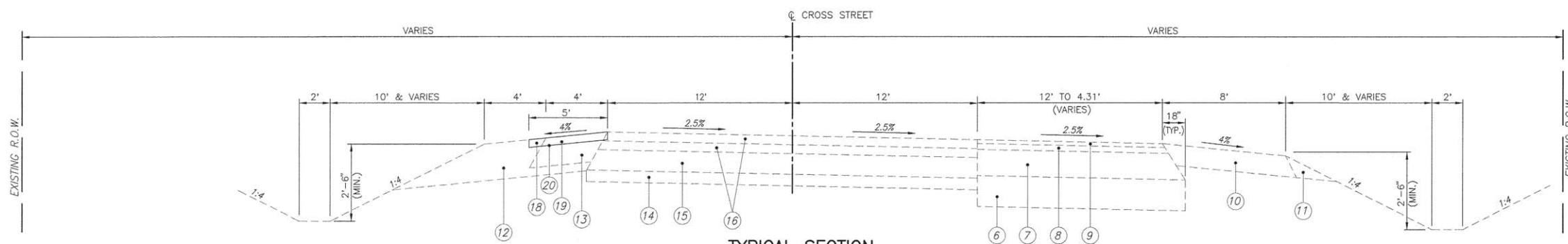
LEGEND

- ① EXISTING AGGREGATE SHOULDER, TYPE A, 8" W/ CLASS A-2 BITUMINOUS SURFACE TREATMENT
- ② EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 5"
- ④ EXISTING AGGREGATE BASE COURSE, 6"
- ⑤ EXISTING BITUMINOUS CONCRETE BINDER / SURFACE COURSE, 9"
- ⑥ EXISTING LIME MODIFIED SOIL, 12"
- ⑦ EXISTING HOT-MIX ASPHALT BASE COURSE, 10 1/2"
- ⑧ EXISTING HOT-MIX ASPHALT BINDER COURSE, 2 1/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑪ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑫ EXISTING AGGREGATE SHOULDER, TYPE A, 15" W/ CLASS A-2 BITUMINOUS SURFACE TREATMENT
- ⑬ EXISTING BITUMINOUS CONCRETE SHOULDER, 11"
- ⑭ EXISTING SUB-BASE GRANULAR MATERIAL, 4 1/2"
- ⑮ EXISTING BITUMINOUS BASE COURSE, 8"
- ⑯ EXISTING BITUMINOUS CONCRETE BINDER / SURFACE COURSE, 7"
- ⑰ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- ⑱ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX D, N70, 3"
- ⑲ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)

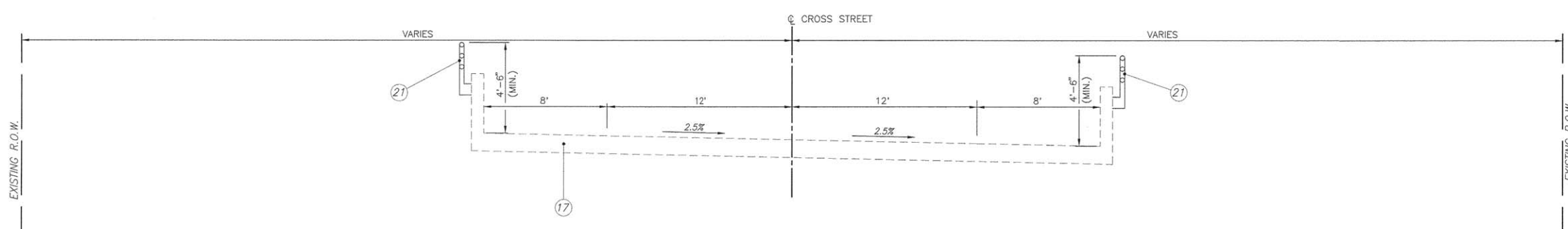
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	5
FEDERAL AID PROJECT		CONTRACT 97632		



TYPICAL SECTION
N.T.S.
CROSS STREET
STA. 56+85.45 TO STA. 59+01.75



TYPICAL SECTION
N.T.S.
CROSS STREET
STA. 59+01.75 TO STA. 62+41

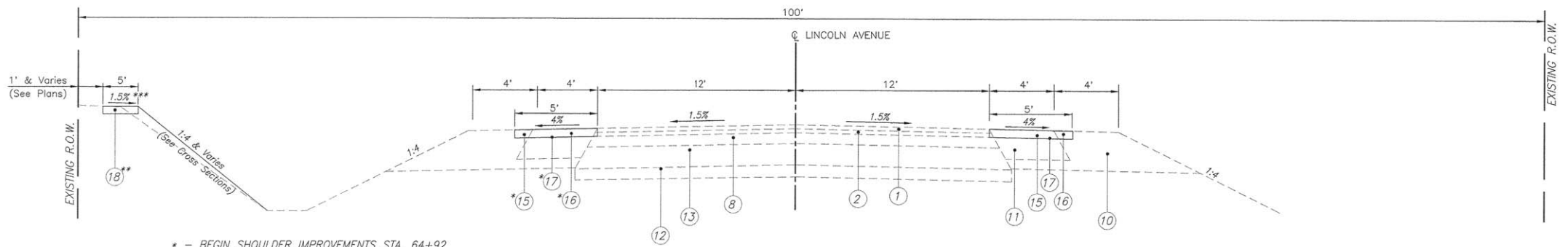


TYPICAL SECTION
N.T.S.
CROSS STREET
STA. 62+41 TO STA. 64+81

LEGEND

- ① EXISTING AGGREGATE SHOULDER, TYPE A, 8" W/ CLASS A-2 BITUMINOUS SURFACE TREATMENT
- ② EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, 5"
- ④ EXISTING AGGREGATE BASE COURSE, 6"
- ⑤ EXISTING BITUMINOUS CONCRETE BINDER / SURFACE COURSE, 9"
- ⑥ EXISTING LIME MODIFIED SOIL, 12"
- ⑦ EXISTING HOT-MIX ASPHALT BASE COURSE, 10 1/4"
- ⑧ EXISTING HOT-MIX ASPHALT BINDER COURSE, 2 1/4"
- ⑨ EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- ⑩ EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
- ⑪ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑫ EXISTING AGGREGATE SHOULDER, TYPE A, 15" W/ CLASS A-2 BITUMINOUS SURFACE TREATMENT
- ⑬ EXISTING BITUMINOUS CONCRETE SHOULDER, 11"
- ⑭ EXISTING SUB-BASE GRANULAR MATERIAL, 4 1/2"
- ⑮ EXISTING BITUMINOUS BASE COURSE, 8"
- ⑯ EXISTING BITUMINOUS CONCRETE BINDER / SURFACE COURSE, 7"
- ⑰ EXISTING BRIDGE STRUCTURE
- ⑱ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- ⑲ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX D, N70, 3"
- ⑳ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ㉑ PROPOSED BICYCLE RAILING (PARAPET MOUNTED)

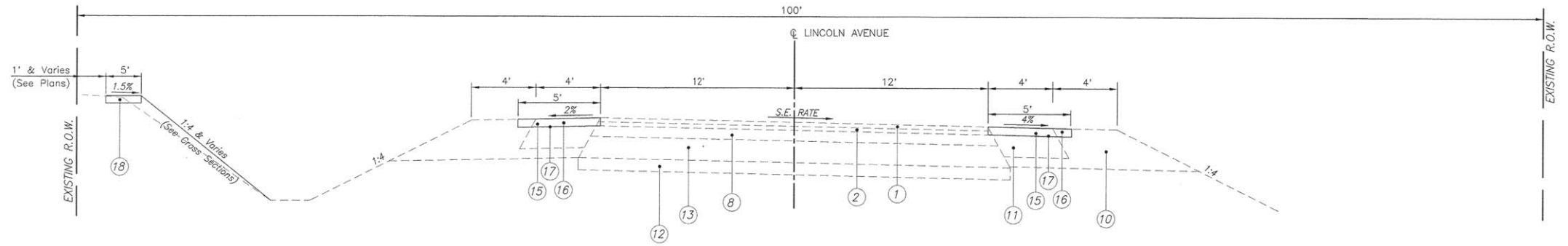
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	6
FEDERAL AID PROJECT		CONTRACT 97632		



* - BEGIN SHOULDER IMPROVEMENTS STA. 64+92
 ** - BEGIN PCC SIDEWALK CONSTRUCTION STA. 73+66
 *** - STA. 81+00 TO 82+25 SLOPE SIDEWALK 1.5% AWAY FROM THE ROAD. TRANSITION SLOPE IN 25 FT.

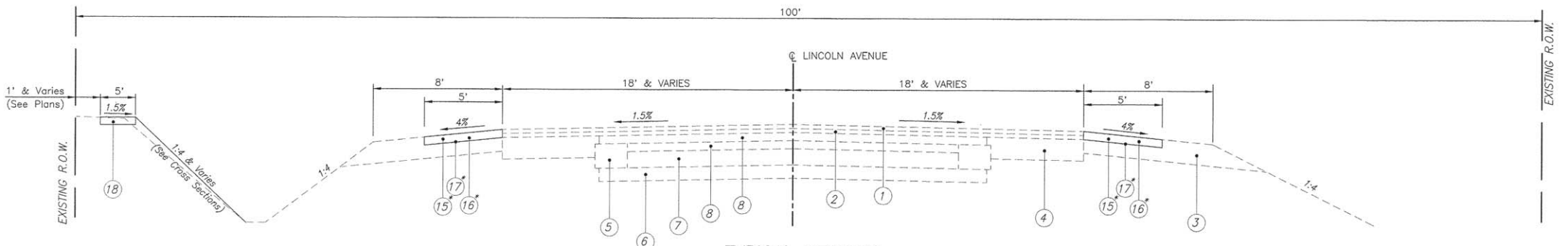
TYPICAL SECTION

N.T.S.
 LINCOLN AVENUE
 STA. 64+81 TO STA. 74+23
 STA. 80+44 TO STA. 88+88



TYPICAL SECTION

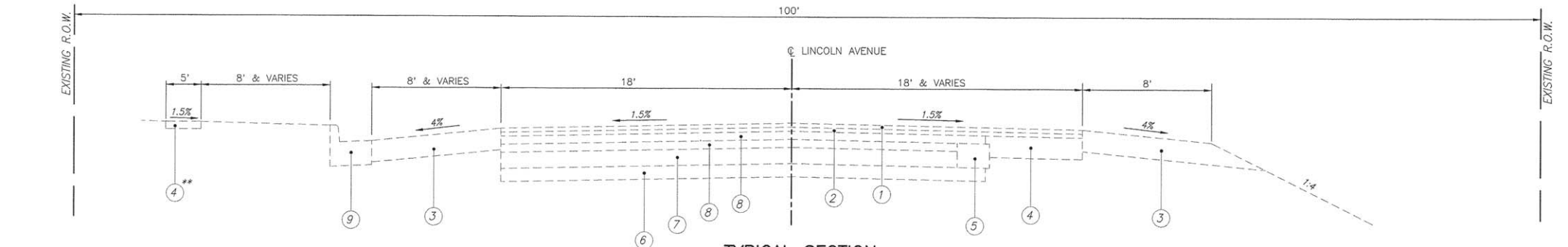
N.T.S.
 LINCOLN AVENUE
 STA. 74+23 TO STA. 80+44 (S.E. RATE = 4.2%)



TYPICAL SECTION

N.T.S.
 LINCOLN AVENUE
 STA. 88+88 TO STA. 96+73

* END SHOULDER IMPROVEMENTS AT
 STATION 90+74, RT.
 STATION 90+67, LT.



TYPICAL SECTION

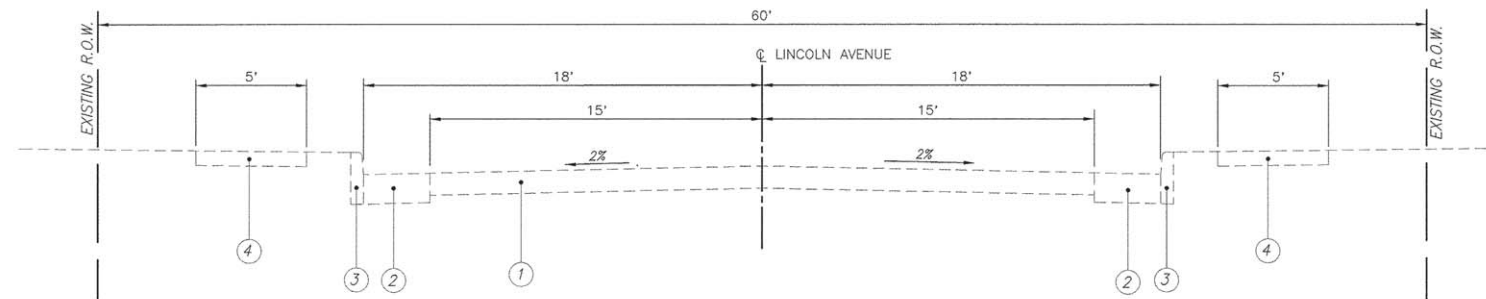
N.T.S.
 LINCOLN AVENUE
 STA. 96+73 TO STA. 100+72

** - END PROPOSED PCC SIDEWALK CONSTRUCTION STA. 96+82

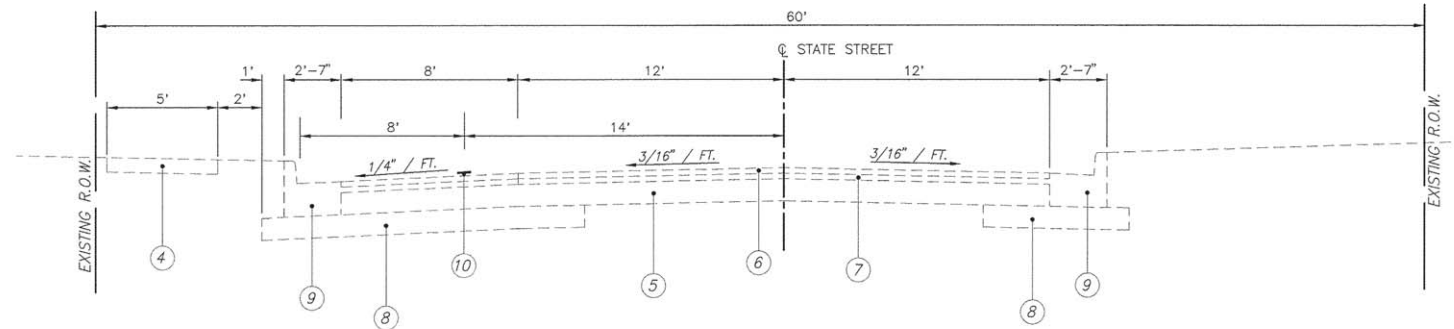
LEGEND

- ① EXISTING HMA SURFACE COURSE, 1 1/2"
- ② EXISTING LEVELING BINDER, 1 1/4"
- ③ EXISTING BITUMINOUS CONCRETE SHOULDER, 8"
- ④ EXISTING P.C.C. BASE COURSE, 8"
- ⑤ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL, 5"
- ⑦ EXISTING AGGREGATE BASE COURSE, 6"
- ⑧ EXISTING BITUMINOUS CONCRETE BINDER / SURFACE COURSE, 3"
- ⑨ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑩ EXISTING AGGREGATE SHOULDER
- ⑪ EXISTING BITUMINOUS CONCRETE SHOULDER, 11"
- ⑫ EXISTING SUB-BASE GRANULAR MATERIAL, 4 1/2"
- ⑬ EXISTING BITUMINOUS CONCRETE BASE COURSE, 8"
- ⑭ EXISTING PCC SIDEWALK
- ⑮ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- ⑯ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX D, N70, 3"
- ⑰ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑱ PROPOSED PCC SIDEWALK, 4"

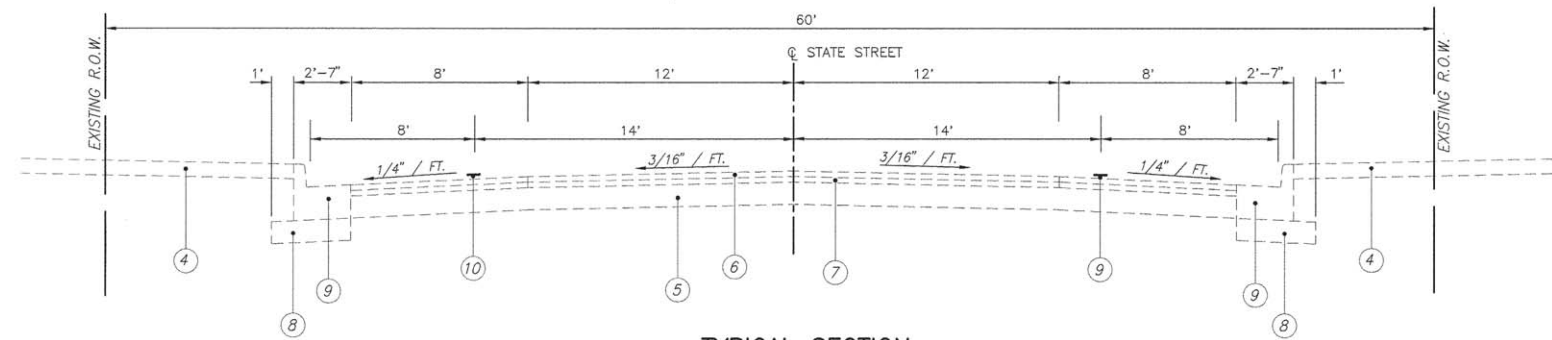
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TYPICAL SECTION
N.T.S.
LINCOLN AVENUE
STATE STREET TO HIGHWAY 50



TYPICAL SECTION
N.T.S.
STATE STREET
(FROM SPRUCE STREET TO OAK STREET)



TYPICAL SECTION
N.T.S.
STATE STREET
(FROM OAK STREET TO LINCOLN AVENUE)

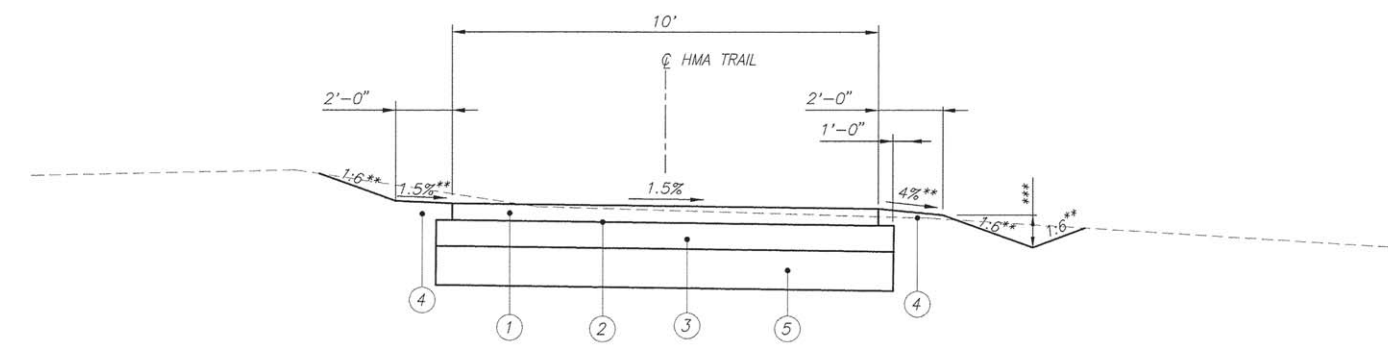
LEGEND

- ① EXISTING P.C.C. PAVEMENT, 6"
- ② EXISTING P.C.C. PAVEMENT, 8"
- ③ EXISTING P.C.C. CURB
- ④ EXISTING P.C.C. SIDEWALK
- ⑤ EXISTING P.C.C. BASE THICKNESS
- ⑥ EXISTING BITUMINOUS CONCRETE SURFACE COURSE
- ⑦ EXISTING BITUMINOUS CONCRETE BASE COURSE
- ⑧ EXISTING GRANULAR SUB-BASE
- ⑨ EXISTING COMB. CURB & GUTTER, TYPE B-6.24
- ⑩ PROPOSED PAINT PAVEMENT MARKINGS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	8
FEDERAL AID PROJECT		CONTRACT 97632		

LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 3"
- ② BITUMINOUS MATERIALS (PRIME COAT)
- ③ AGGREGATE BASE COURSE, TYPE A, 6"
- ④ TURF SHOULDERS
- ⑤ LIME MODIFIED SOILS, 12"



PROPOSED ILLINI BIKE TRAIL

N.T.S.

STA. 200+29 TO STA. 203+67

** - SEE CROSS SECTIONS FOR VARIABLE SLOPE
 *** - SEE CROSS SECTIONS FOR SPECIAL DITCH DEPTH

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	9
FEDERAL AID PROJECT		CONTRACT 97632		

PCC SIDEWALK SCHEDULE

LOCATION	P.C.C. SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ. FT.	SQ. FT.
LINCOLN AVENUE		
STA. 73+66 LT. TO 73+76 LT.	93	
STA. 73+72 LT.		10
STA. 74+23 RT. TO 74+27 RT.	44	
STA. 74+25 RT.		8
STA. 74+24 LT. TO 76+74 LT.	1,547	
STA. 74+27 LT.		10
STA. 74+30 LT.		10
STA. 76+70 LT.		10
STA. 77+15 LT. TO 79+40 LT.	1,255	
STA. 77+19 LT.		10
STA. 79+37 LT.		12
STA. 79+83 LT. TO 83+81 LT.	2,080	
STA. 79+85 LT.		10
STA. 83+80 LT.		10
STA. 84+17 LT. TO 84+40 LT.	200	
STA. 84+20 LT.		10
STA. 86+73 LT. TO 87+03 LT.	173	
STA. 87+00 LT.		10
STA. 87+34 LT. TO 90+97 LT.	1,891	
STA. 87+36 LT.		10
STA. 90+93 LT.		10
STA. 91+35 LT. TO 92+97 LT.	813	
STA. 91+38 LT.		10
STA. 92+92 LT.		10
STA. 93+30 LT. TO 95+03 LT.	859	
STA. 93+33 LT.		10
STA. 95+41 LT. TO 96+43 LT.	508	
STA. 96+40 LT.		10
STA. 96+73 LT. TO 96+82 LT.	120	
STA. 96+75 LT.		10
STA. 96+82 RT. TO 96+88 RT.	24	
STA. 96+85 RT.		11
STA. 100+31 RT. TO 100+62 RT.	200	
STA. 100+35 RT.		18
STA. 100+60 RT.		12
STATE STREET		
STA. 1+99 LT. TO 2+16 LT.	100	
STA. 2+07 LT.		20
ILLINI BIKE TRAIL		
STA. 203+67 LT./RT. TO 203+74 LT./RT.	55	
STA. 203+71 LT./RT.		20
TOTAL	9,962	261

MISCELLANEOUS REMOVAL SCHEDULE

LOCATION	SIDEWALK REMOVAL	COMB. CURB & GUTTER REMOVAL	DRIVEWAY PAVEMENT REMOVAL	PIPE CULVERT REMOVAL
	SQ. FT.	FOOT	SQ. YD.	FOOT
LINCOLN AVENUE				
STA. 73+68 LT TO 73+72 LT	88			
STA. 73+72 LT TO 73+79 LT		12		
STA. 74+19 RT TO 74+29 RT		16		
STA. 74+23 RT TO 74+27 RT	44			
STA. 74+21 LT TO 74+36 LT		24		
STA. 76+69 LT TO 76+77 LT		13		
STA. 77+13 LT TO 77+21 LT		14		
STA. 79+82 LT TO 79+86 LT	16			
STA. 83+71 LT TO 83+81 LT	51			
STA. 83+82 LT		24		
STA. 84+17 LT		23		
STA. 84+17 LT TO 84+40 LT	144			
STA. 86+73 LT TO 87+04 LT	136			
STA. 87+05 LT		21		
STA. 87+32 LT TO 87+36 LT		7		
STA. 90+88 LT				8
STA. 90+92 LT TO 90+97 LT	70			
STA. 90+92 LT TO 91+00 LT		16		
STA. 91+32 LT TO 91+38 LT		13		
STA. 92+91 LT TO 93+00 LT		14		
STA. 93+27 LT TO 93+33 LT		12		
STA. 95+21 LT			73	40
STA. 96+41 LT TO 96+46 LT		11		
STA. 96+70 LT TO 96+76 LT		10		
STA. 96+72 LT TO 96+82 LT	120			
STA. 96+82 RT TO 96+88 RT	24			
STA. 100+28 RT TO 100+38 RT		16		
STA. 100+52 RT TO 100+62 RT	60			
STATE STREET				
STA. 1+98 LT TO 2+16 LT		18		
STA. 1+99 LT TO 2+16 LT	81			
TOTAL	834	264	73	48

CURB AND GUTTER SCHEDULE

LOCATION	C. & G TYPE B6.18	C. & G TYPE B6.24	PROTECTIVE COAT
	FOOT	FOOT	SQ. YD.
LINCOLN AVENUE			
STA. 73+72 LT TO 73+79 LT	12		3
STA. 74+19 RT TO 74+29 RT	16		3
STA. 74+21 LT TO 74+36 LT	24		5
STA. 76+69 LT TO 76+77 LT	13		3
STA. 77+13 LT TO 77+21 LT	14		3
STA. 83+82 LT	24		5
STA. 84+17 LT	23		5
STA. 87+05 LT	21		5
STA. 87+32 LT TO 87+36 LT	7		2
STA. 90+92 LT TO 91+00 LT	16		4
STA. 91+32 LT TO 91+38 LT	13		3
STA. 92+91 LT TO 93+00 LT	14		3
STA. 93+27 LT TO 93+33 LT	12		3
STA. 96+41 LT TO 96+46 LT	11		2
STA. 96+70 LT TO 96+76 LT	10		2
STA. 100+28 RT TO 100+38 RT	16		2
STATE STREET			
STA. 1+98 LT TO 2+16 LT		18	5
TOTAL	246	18	58

SIGN SCHEDULE

LOCATION	LT/RT	PROPOSED OFFSET (FOOT)	SIGN PANEL - TYPE 1 (SQ. FT.)	METAL POST - TYPE A (FOOT)	METAL POST - TYPE B (FOOT)	WOOD SIGN SUPPORT	DESCRIPTION
CROSS STREET							
STA. 36+54	LT.	29.0	3.75	13.0			D11-1 (24x18), M7-2 (12x9)
STA. 36+96	RT.	26.0	3.00	12.0			D11-1 (24x18)
LINCOLN AVENUE							
STA. 71+00	RT.	22.0	8.25		14.5		W11-2 (30x30), W16-7P (AHEAD) (24x12)
STA. 74+31	RT.	29.0	8.25		14.5		W11-2 (30x30), W16-7P (ARROW) (24x12)
STA. 74+38	LT.	24.0	8.25		14.5		W11-2 (30x30), W16-7P (ARROW) (24x12)
STA. 76+57	LT.	26.0	8.25		14.5		W11-2 (30x30), W16-7P (AHEAD) (24x12)
STA. 89+42	RT.	25.0	3.00	12.0			D11-1 (24x18)
STA. 92+98	RT.	36.0	8.25		14.5		W11-2 (30x30), W16-7P (AHEAD) (24x12)
STA. 96+80	RT.	34.0	8.25		14.5		W11-2 (30x30), W16-7P (ARROW) (24x12)
STA. 96+92	LT.	25.0	8.25		14.5		W11-2 (30x30), W16-7P (ARROW) (24x12)
STA. 98+33	LT.	25.0	8.25		14.5		W11-2 (30x30), W16-7P (AHEAD) (24x12)
STA. 99+97	RT.	38.0	4.33	13.5			R3-17 (24x18), R3-17bP (ENDS) (24x8)
STA. 100+25	RT.	46.0	3.00	12.5			WALK YOUR BIKE (18x24)
STA. 101+00	RT.	29.0	1.50				R9-5 (12x18) (MOUNT ON EXISTING SIGNAL POST)
STA. 126+56	RT.	22.0	3.75	13.5			D11-1 (24x18), M7-1L (12x9)
STATE STREET							
STA. 2+03	RT.	24.0	3.75	13.5			D11-1 (24x18), M7-1L (12x9)
STA. 2+22	LT.	24.0	8.25		14.5		W11-1 (30x30), W16-7P (24x12)
STA. 2+69	LT.	24.0	3.75	13.5			D11-1 (24x18), M7-1R (12x9)
STA. 18+97	RT.	24.0	3.75	13.5			D11-1 (24x18), M7-1R (12x9)
ILLINI BIKE TRAIL							
STA. 200+30	LT.	6.0	2.25			10.5	R1-1 (18x18)
STA. 200+69	RT.	7.0	4.0			11.0	R5-3 (24x24)
STA. 203+37	LT.	7.0	4.0			11.0	R5-3 (24x24)
STA. 203+65	LT.	14.0	8.25		14.5		W11-1 (30x30), W16-7P (ARROW) (24x12)
STA. 203+66	RT.	8.0	2.25			10.5	R1-1 (18x18)
STA. 204+08	RT.	15.0	8.25		14.5		W11-1 (30x30), W16-7P (ARROW) (24x12)
STA. 204+21	LT.	8.0	2.25			10.5	R1-1 (18x18)
TOTAL			139.08	117.0	159.5	53.5	

PCC DRIVEWAY SCHEDULE

LOCATION	PCC DRIVEWAY PAVEMENT, 6"
	SQ. YD.
STA. 95+21.11 LT	73
TOTAL	73

NOTE: THE CONTRACTOR SHALL STAGE THIS WORK IN SUCH A WAY THAT VEHICULAR ACCESS TO THE PARKING AREA IS MAINTAINED AT ALL TIMES. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY STAGING IN ORDER TO COMPLY WITH THE ABOVE.

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CUT AVAILABLE FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD
LINCOLN AVENUE					
STA. 74+00 TO 84+00	54	41	100	-59	59
STA. 87+00 TO 96+50	26	19	330	-311	311
ILLINI BIKE TRAIL					
STA. 200+25 TO 204+00	102	76	64	+12	0
TOTAL	182				370

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	MULCH METHOD 2	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING
	ACRE	ACRE	NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND	POUND
LINCOLN AVENUE	0.4	0.4	36	36	36	40
ILLINI BIKE TRAIL	0.3	0.3	27	27	27	30
TOTAL	0.7	0.7	63	63	63	70

PARAPET RAILING SCHEDULE

LOCATION	BICYCLE RAILING (PARAPET MOUNTED)
	FOOT
EXISTING STRUCTURE OVER I-64	512

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	10
FEDERAL AID PROJECT		CONTRACT 97632		

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE

PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM	INVERTS
2	91+49.55 41.92'L	INLETS, TYPE A, TYPE 8 GRATE	561.00	559.50 E
3	91+51.06 28.80'L	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID *	561.93	559.43 W 559.43 N 559.43 S
4	93+45.87 31.39'L	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID *	560.02	557.11 N
5	94+87.59 25.55'L	INLETS, TYPE B, TYPE 8 GRATE *	558.90	556.61 S 556.61 N
6	96+23.23 25.76'L	INLETS, TYPE B, TYPE 8 GRATE *	558.22	556.13 S 556.13 NW
7	96+28.45 32.14'L	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID *	559.09	556.11 N 556.11 SE

NOTE: OFFSETS TO ALL INLETS ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.

(*) - DENOTES FLAT SLAB TOP

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
2	Open Ditch	Existing 18" CMP	Pipe Drains, 18"	18"	11'	574.86	574.80	0.50%
3	Existing 18" CMP	Open Ditch	Pipe Drains, 18"	18"	10'	572.96	572.91	0.50%
4	Open Ditch	Existing 15" RCCP	Pipe Culverts, Class A, Type 1	15"	20'	569.60	569.50	0.50%
5	Relocated End Section	Existing 18" CMP	Pipe Drains, 18"	18"	9'	560.72	560.67	0.50%
6	Relocated End Section	Existing 15" RCCP	Pipe Culverts, Class A, Type 1	15"	25'	563.29	563.17	0.50%
7	Existing 15" RCCP	Relocated End Section	Pipe Culverts, Class A, Type 1	15"	15'	561.96	561.89	0.50%
8	Open Ditch	Existing Inlet	Pipe Drains, 15"	15"	20'	559.96	559.86	0.53%
9	2	3	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	11'	559.50	559.43	0.62%
10	3	Open Ditch	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	7'	559.43	559.39	0.61%
11	Open Ditch	Existing 15" CMP	Pipe Drains, 15"	15"	13'	557.41	557.34	0.50%
12	4	5	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	139'	557.11	556.61	0.36%
13	5	6	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	133'	556.61	556.13	0.36%
14	6	7	Storm Sewers, Rubber, Gasket, Class A, Type 1	15"	5'	556.13	556.11	0.32%

NOTE: TRENCH BACKFILL SHALL BE INCLUDED IN THE COST OF STORM SEWER, PIPE CULVERT, PIPE DRAIN, ETC. PAY ITEMS.
ALL REQUIRED CONNECTIONS, COLLARS, ETC. FOR PIPE CULVERTS AND PIPE DRAINS TO BE EXTENDED SHALL BE INCLUDED IN THE COST OF THAT ITEM.
PIPE DRAINS SHALL BE CORRUGATED METAL PIPE CONFORMING THE APPLICABLE ARTICLES OF SECTION 1006 OF THE STANDARD SPECIFICATIONS.

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKINGS				PAVEMENT MARKING REMOVAL SQ. FT.
	SOLID WHITE 4" LANE LINE	SOLID YELLOW 4" LANE LINE	SOLID WHITE 24" BAR	SOLID WHITE 12" CROSSWALK LINE	
	FOOT	FOOT	FOOT	FOOT	
CROSS STREET / LINCOLN AVENUE					
STA. 36+10 TO 36+55 LT.	89		32		
STA. 73+69 TO 74+32 LT./RT./C		14	20	189	102
STA. 76+73 TO 77+16 LT.			17	81	
STA. 79+36 TO 79+86 LT.			20	94	
STA. 83+83 TO 84+16 LT.			15	65	
STA. 87+04 TO 87+34 LT.			12	56	
STA. 90+93 TO 91+37 LT.			18	81	
STA. 92+97 TO 93+30 LT.			13	62	
STA. 96+44 TO 96+71 LT.			12	52	
STA. 100+55 TO 102+11 LT./RT./C			163	524	
STATE STREET					
SPRUCE STREET TO CHARLES STREET LT.	490				163
STA. 4+03 TO 9+90 LT.	587				195
STA. 11+37 TO 15+39 LT./RT.	773				257
STA. 16+07 TO 19+13 LT./RT.	590				196
TOTAL	2,509	14	322	1,204	913

PAVING SCHEDULE

LOCATION	PROCESSING MODIFIED SOILS, 12" SQ. YD.	LIME TON	AGGREGATE BASE COURSE, TYPE A, 6" SQ. YD.	HOT-MIX ASPHALT SURFACE REMOVAL, 3" SQ. YD.	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (3") TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (3") TON
CROSS STREET / LINCOLN AVENUE							
STA. 36+40.80 TO 37+04.20 LT.				24	5		4
STA. 38+71.00 TO 43+10.00 RT.				244	55		41
STA. 39+13.80 TO 54+76.95 LT.				868	195		146
STA. 55+50.10 TO 58+08.05 LT.				144	32		24
STA. 58+80.00 TO 62+41.00 LT.				203	46		34
STA. 64+80.97 TO 73+67.33 RT.				493	111		83
STA. 64+92.34 TO 73+51.76 LT.				477	107		80
STA. 74+44.87 TO 82+24.83 RT.				430	97		72
STA. 74+49.87 TO 76+46.32 LT.				110	25		18
STA. 77+41.95 TO 79+19.34 LT.				100	22		17
STA. 80+06.00 TO 83+64.78 LT.				200	45		34
STA. 82+86.80 TO 90+73.70 RT.				438	98		74
STA. 84+35.64 TO 86+82.75 LT.				137	31		23
STA. 87+53.86 TO 90+66.56 LT.				172	39		29
ILLINI BIKE TRAIL							
STA. 200+29.50 TO 203+67.20 C	450	9	450		844	63	
TOTAL	450	9	450	4,040	1,752	63	679

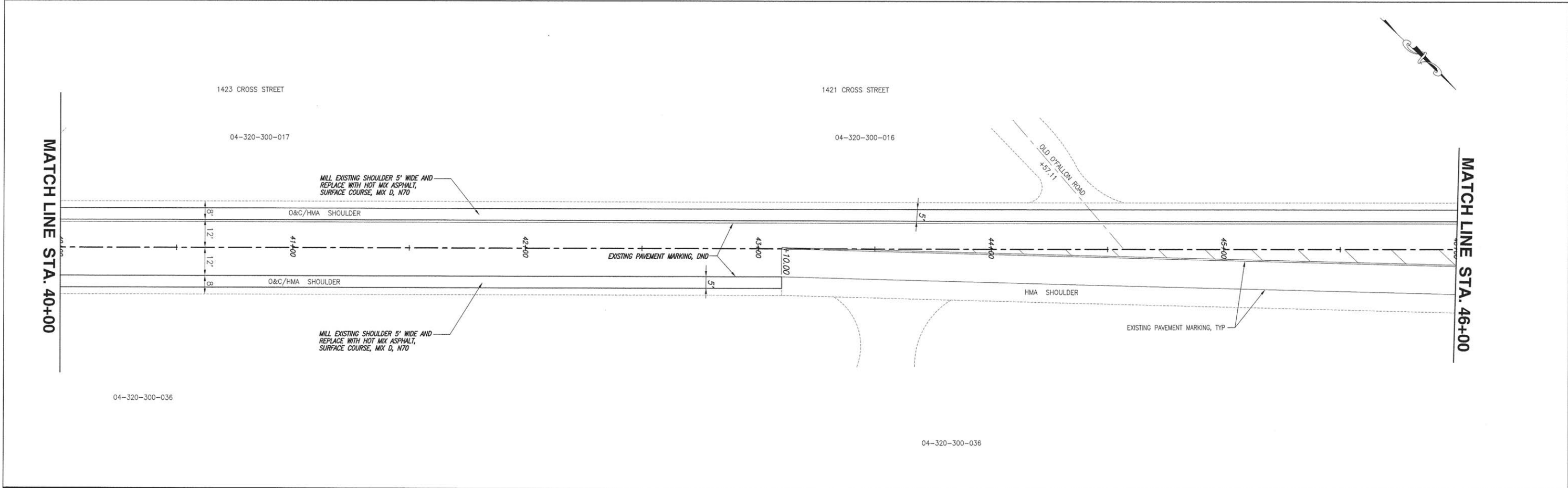
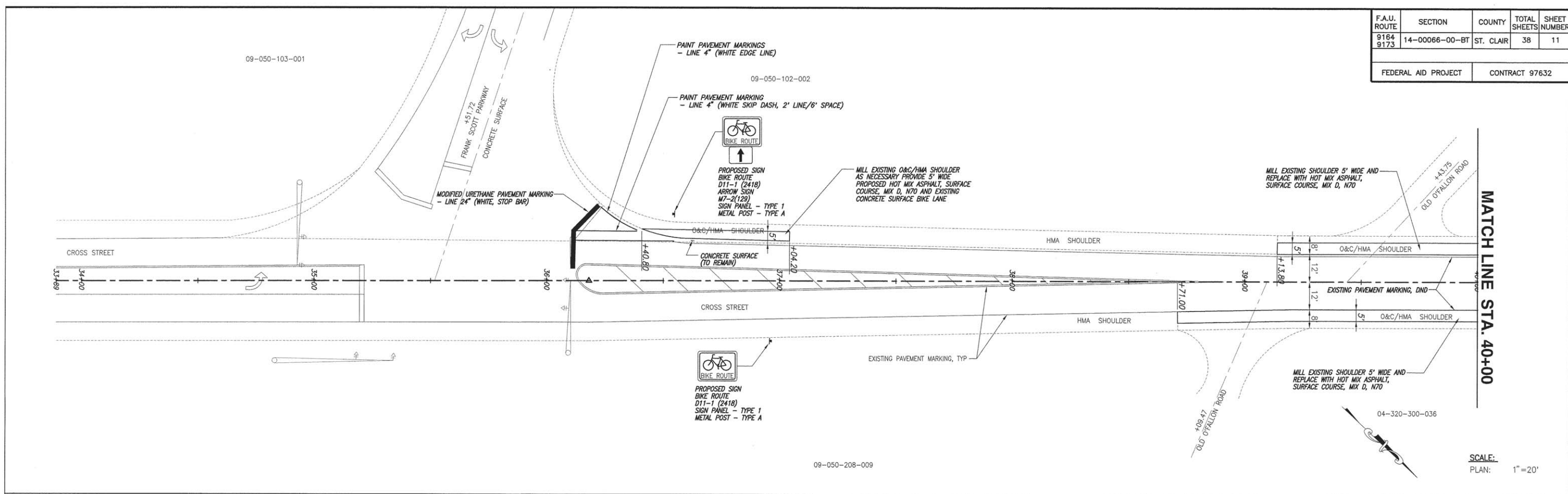
INLET AND PIPE PROTECTION SCHEDULE

LOCATION	INLET AND PIPE PROTECTION EACH
LINCOLN AVENUE	3
TOTAL	3

RELOCATE EXISTING FLARED END SECTION

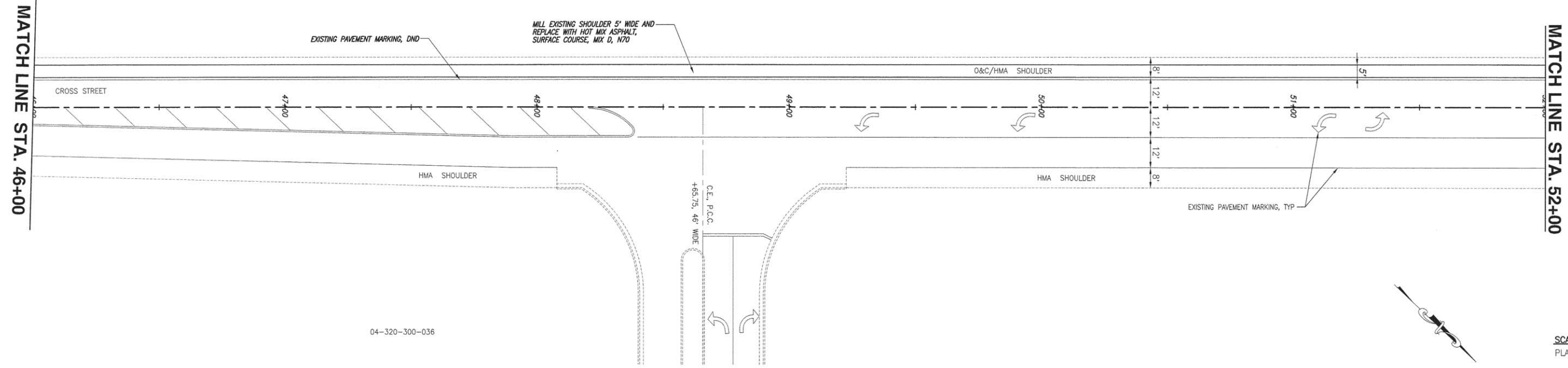
STATION	OFFSET	RELOCATE EXISTING FLARED END SECTION EACH
LINCOLN AVENUE		
STA. 83+52	31' LT.	1
STA. 86+70	32' LT.	1
STA. 87+66	30' LT.	1
TOTAL		3

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	11
FEDERAL AID PROJECT		CONTRACT 97632		



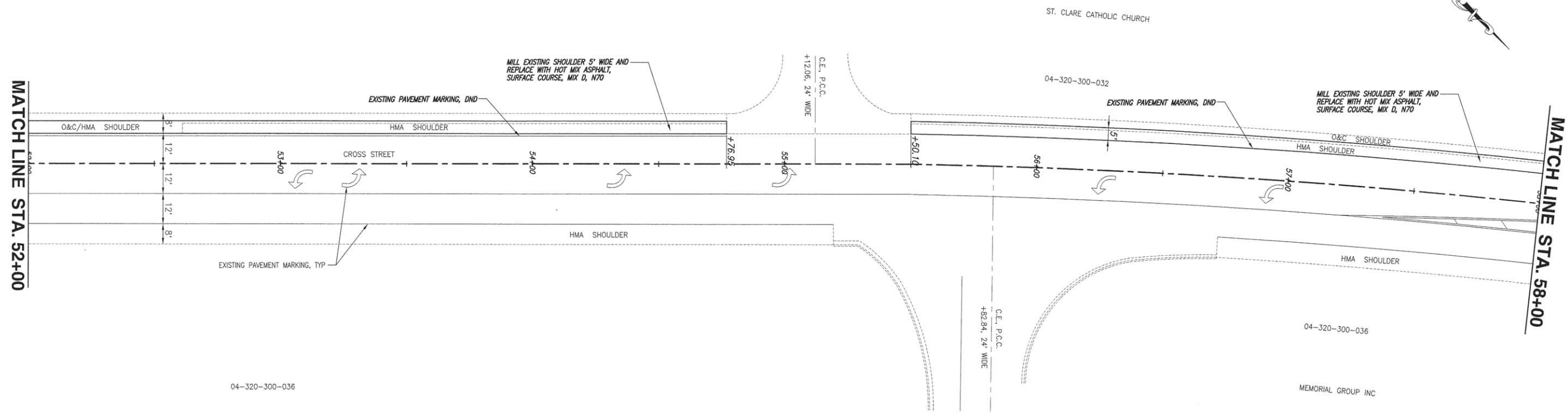
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	12
FEDERAL AID PROJECT		CONTRACT 97632		

04-320-300-003



04-320-300-036

SCALE:
PLAN: 1"=20'

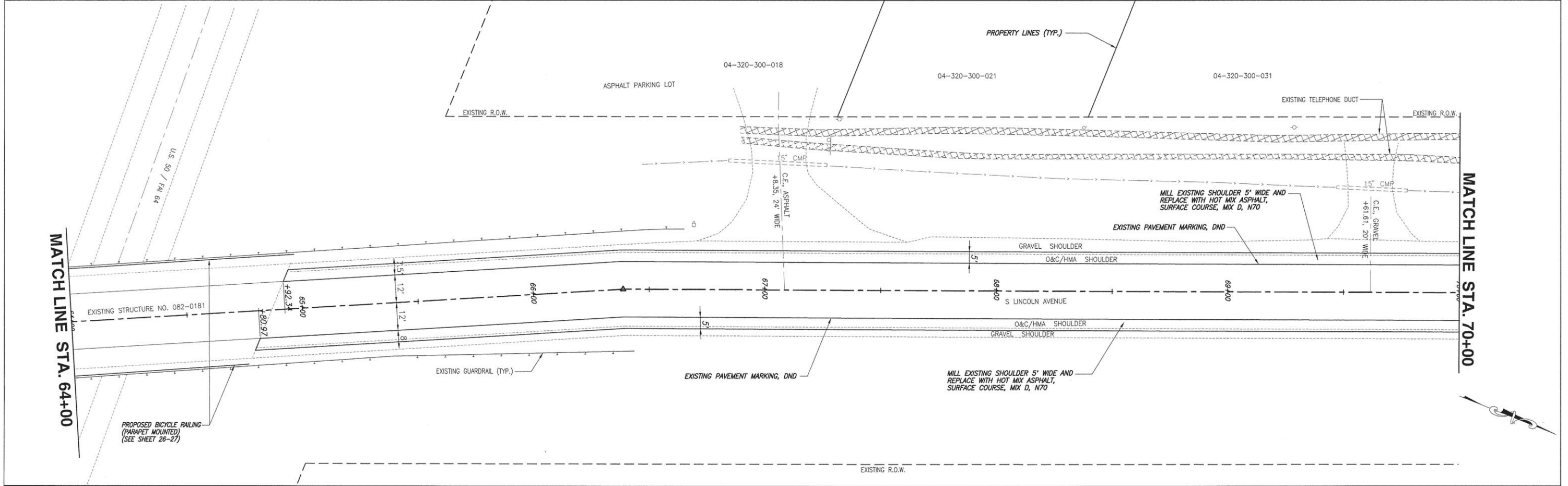
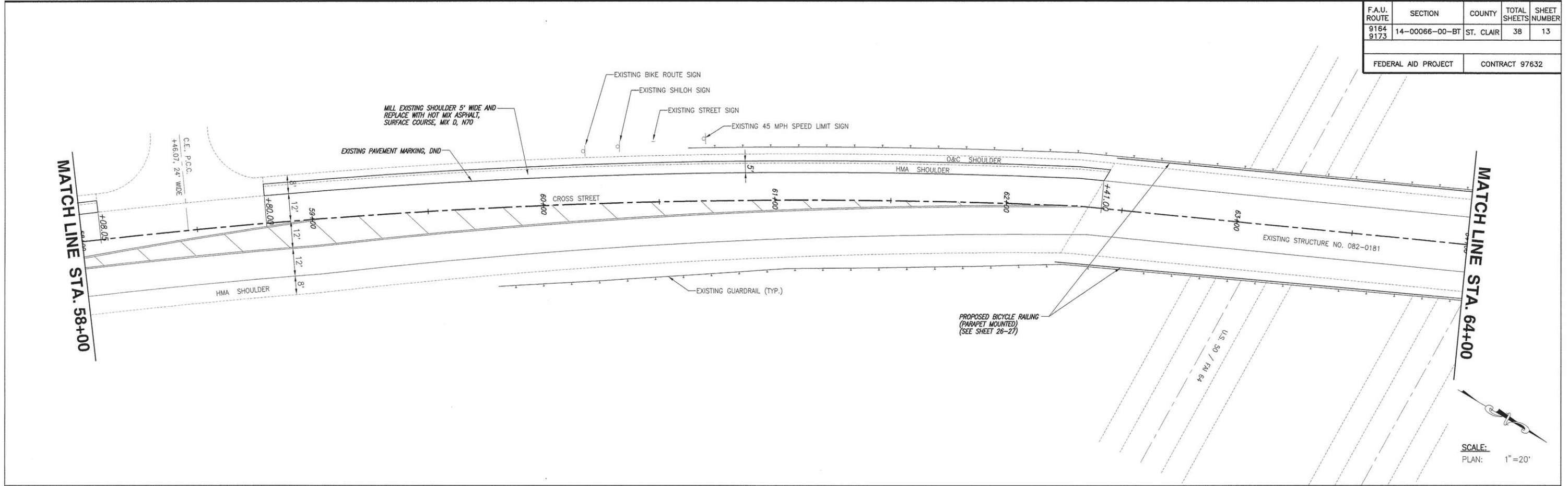


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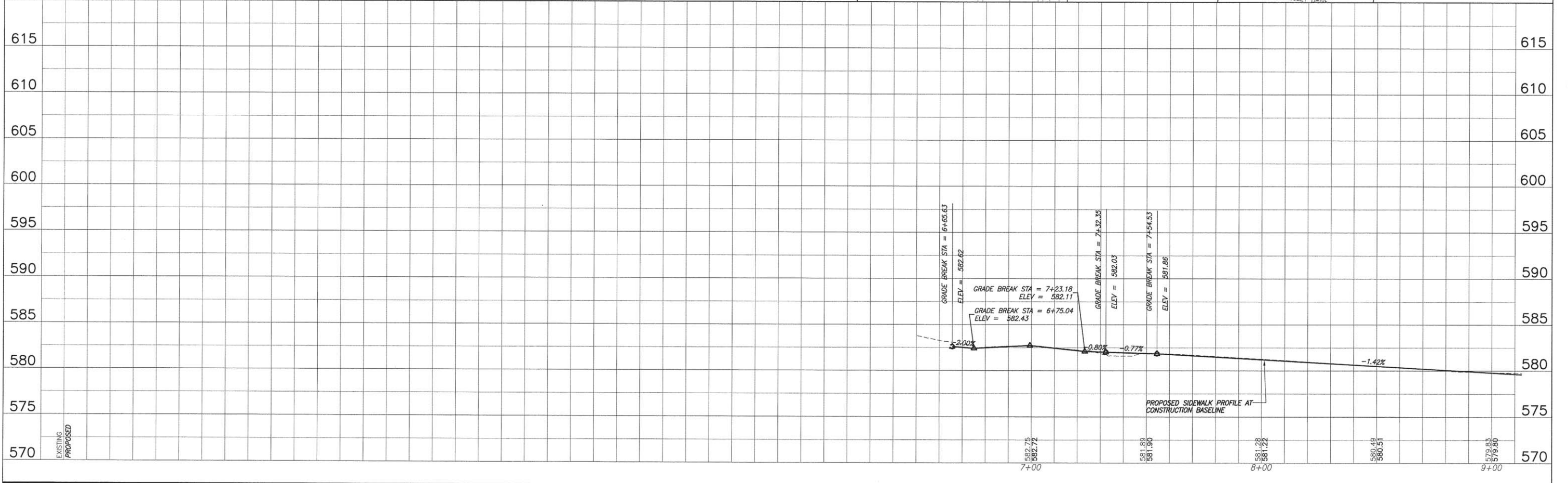
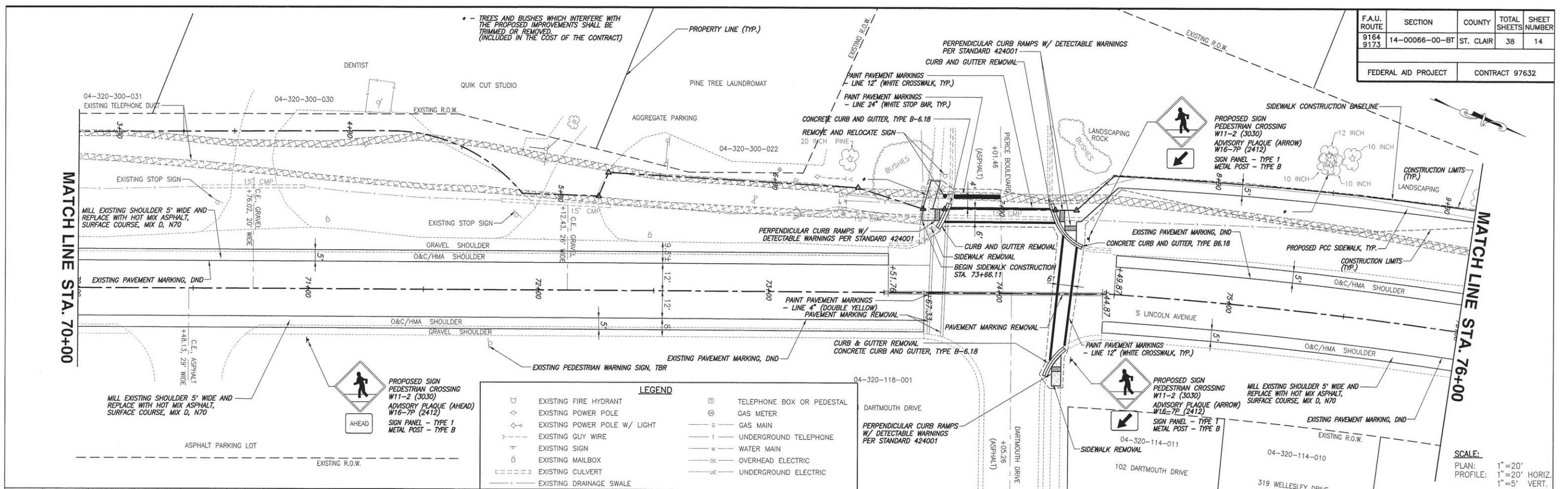
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MEMORIAL GROUP INC

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	13
FEDERAL AID PROJECT		CONTRACT 97632		



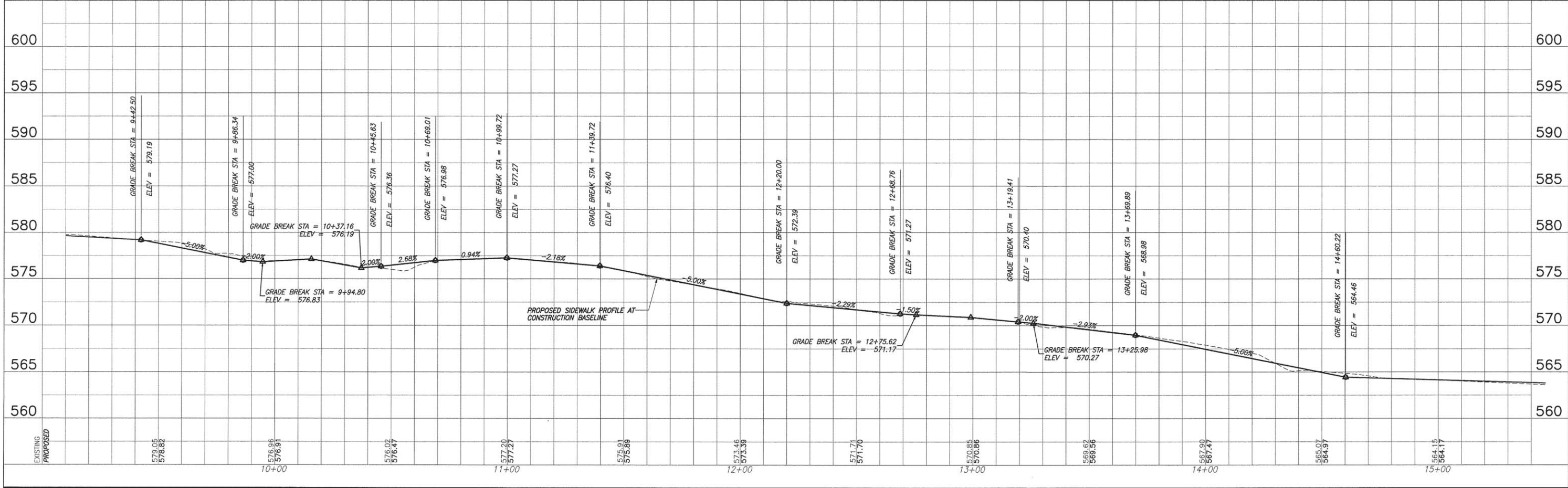
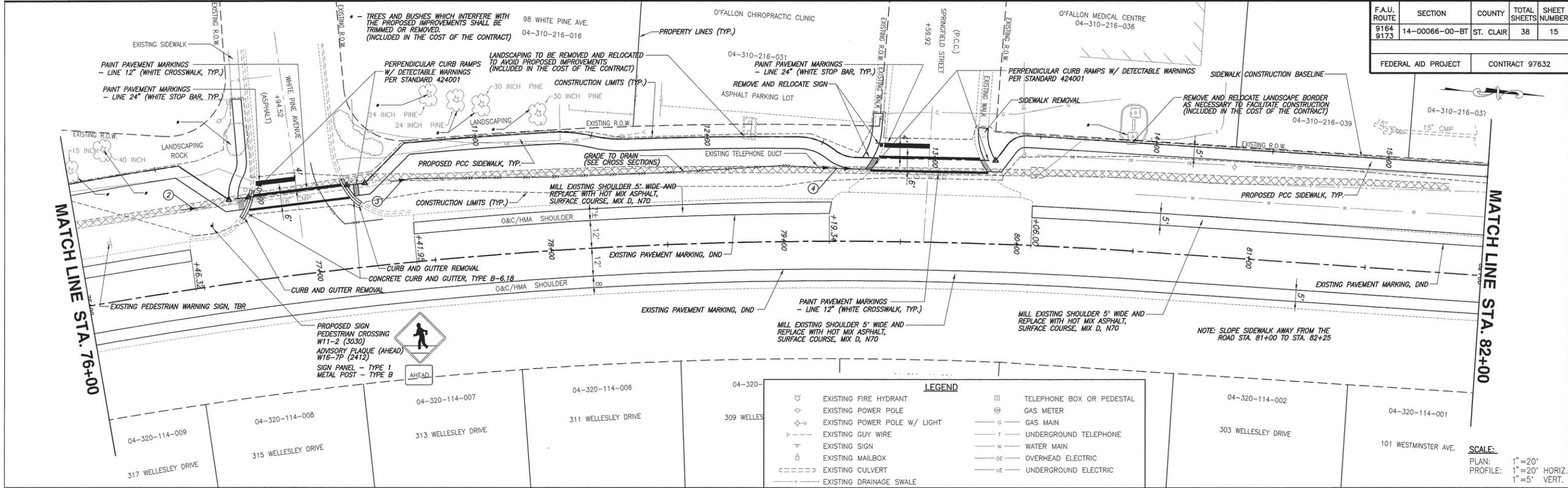
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	14
FEDERAL AID PROJECT			CONTRACT 97632	



PLAN & PROFILE O'FALLON - ILLINI BIKE TRAIL IMPROVEMENTS
SECTION 14-00066-00-BT ST. CLAIR COUNTY, ILLINOIS

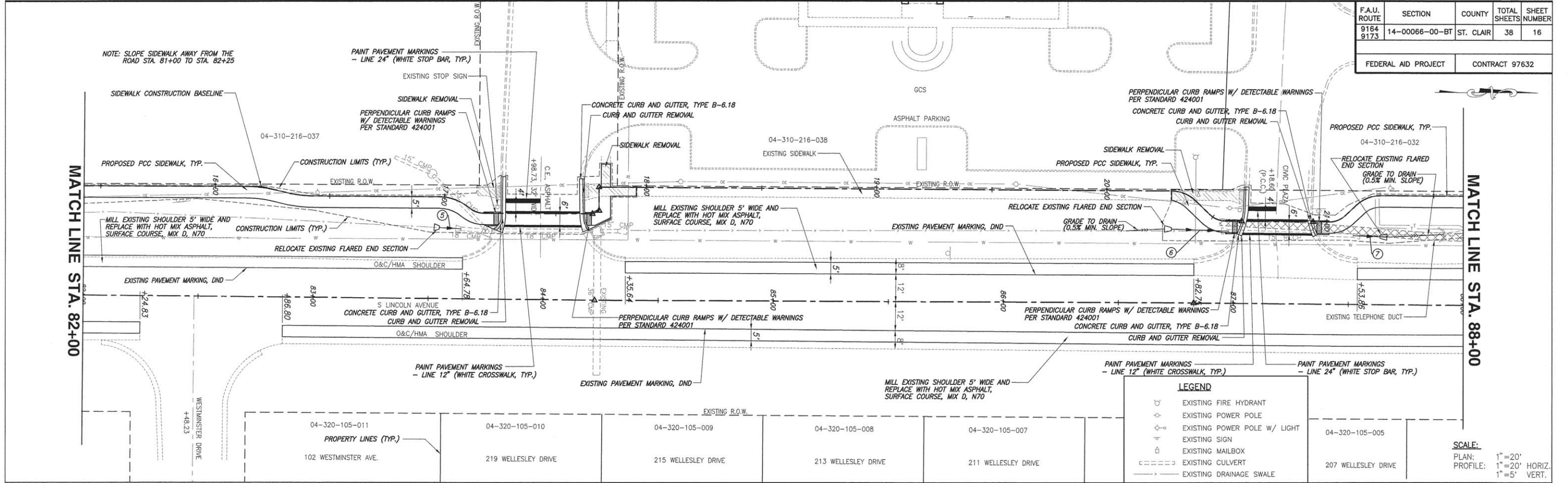
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	15

FEDERAL AID PROJECT CONTRACT 97632



PLAN & PROFILE O'FALLON - ILLINI BIKE TRAIL IMPROVEMENTS
SECTION 14-00066-00-BT ST. CLAIR COUNTY, ILLINOIS

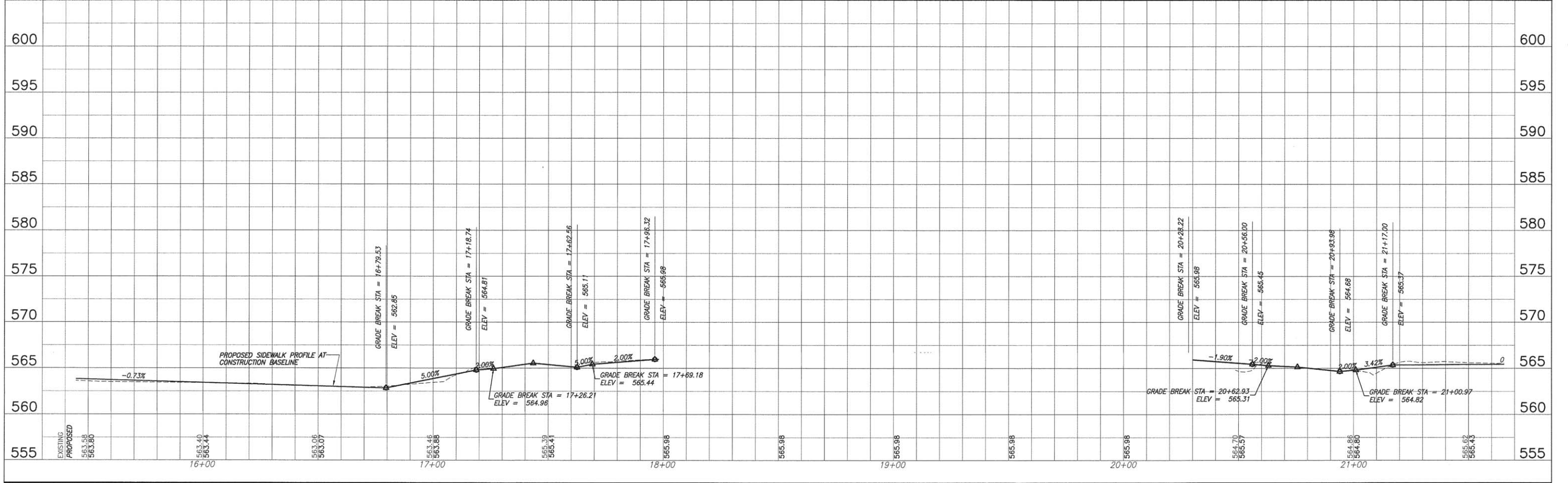
F.A.U. ROUTE 9164 9173	SECTION 14-00066-00-BT	COUNTY ST. CLAIR	TOTAL SHEETS 38	SHEET NUMBER 16
FEDERAL AID PROJECT		CONTRACT 97632		



LEGEND

- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING CULVERT
- EXISTING DRAINAGE SWALE

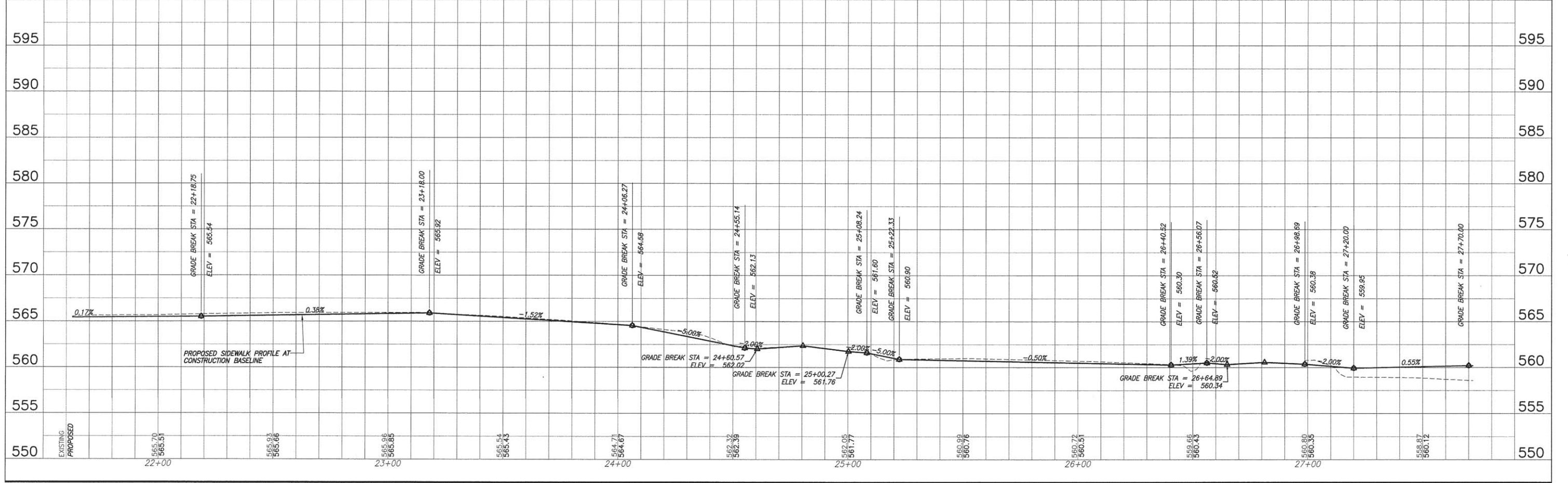
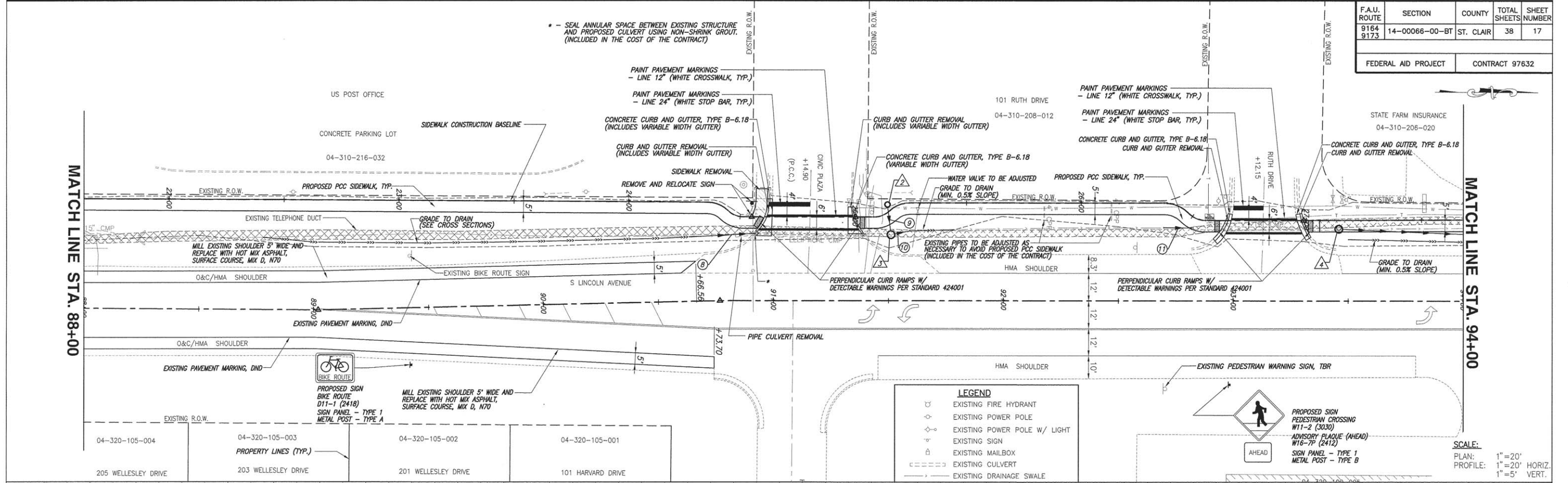
SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



PLAN & PROFILE O'FALLON - ILLINI BIKE TRAIL IMPROVEMENTS
 SECTION 14-00066-00-BT ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164	14-00066-00-BT	ST. CLAIR	38	17
9173				

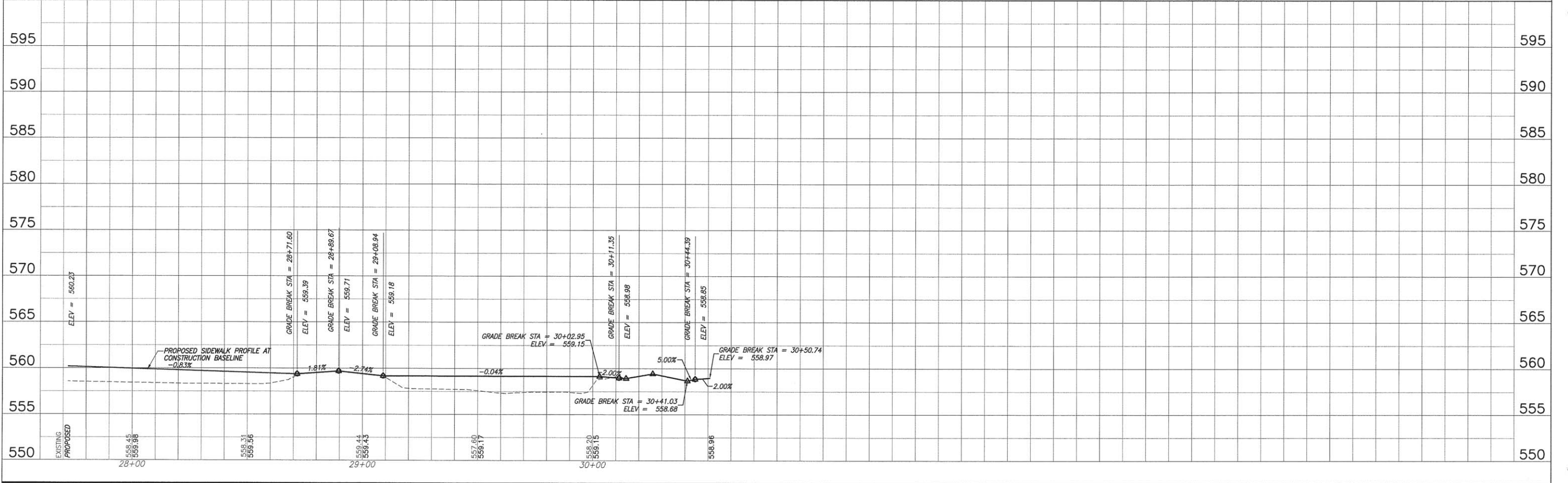
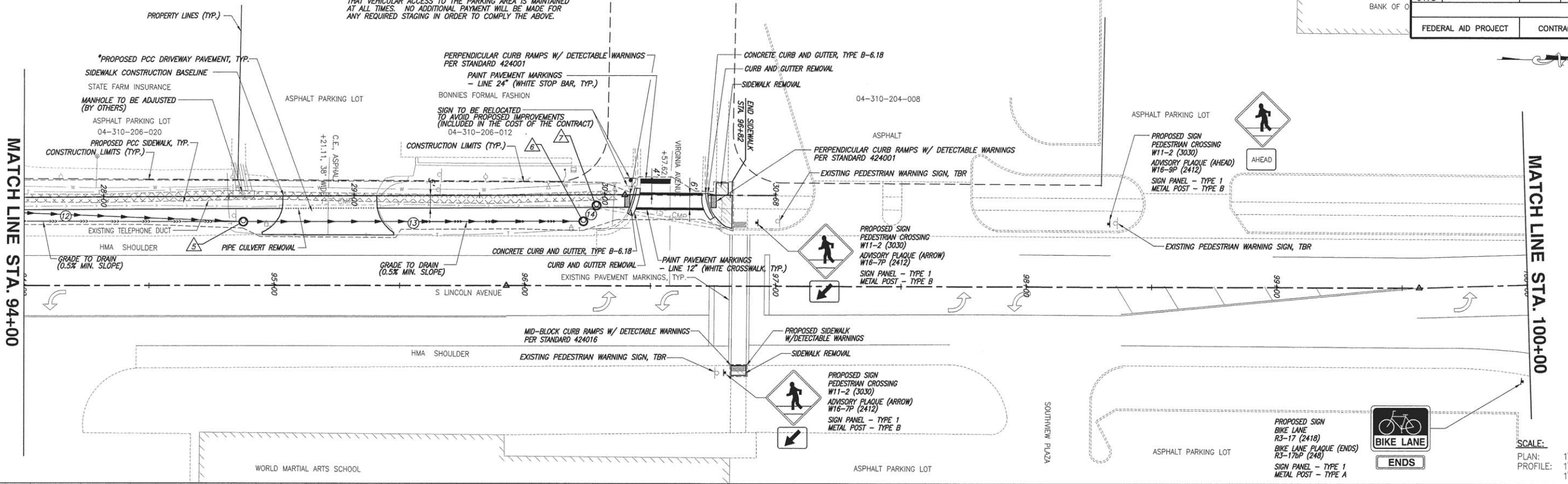
FEDERAL AID PROJECT	CONTRACT 97632
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PLAN & PROFILE ILLINI BIKE TRAIL IMPROVEMENTS
O'FALLON, ILLINOIS

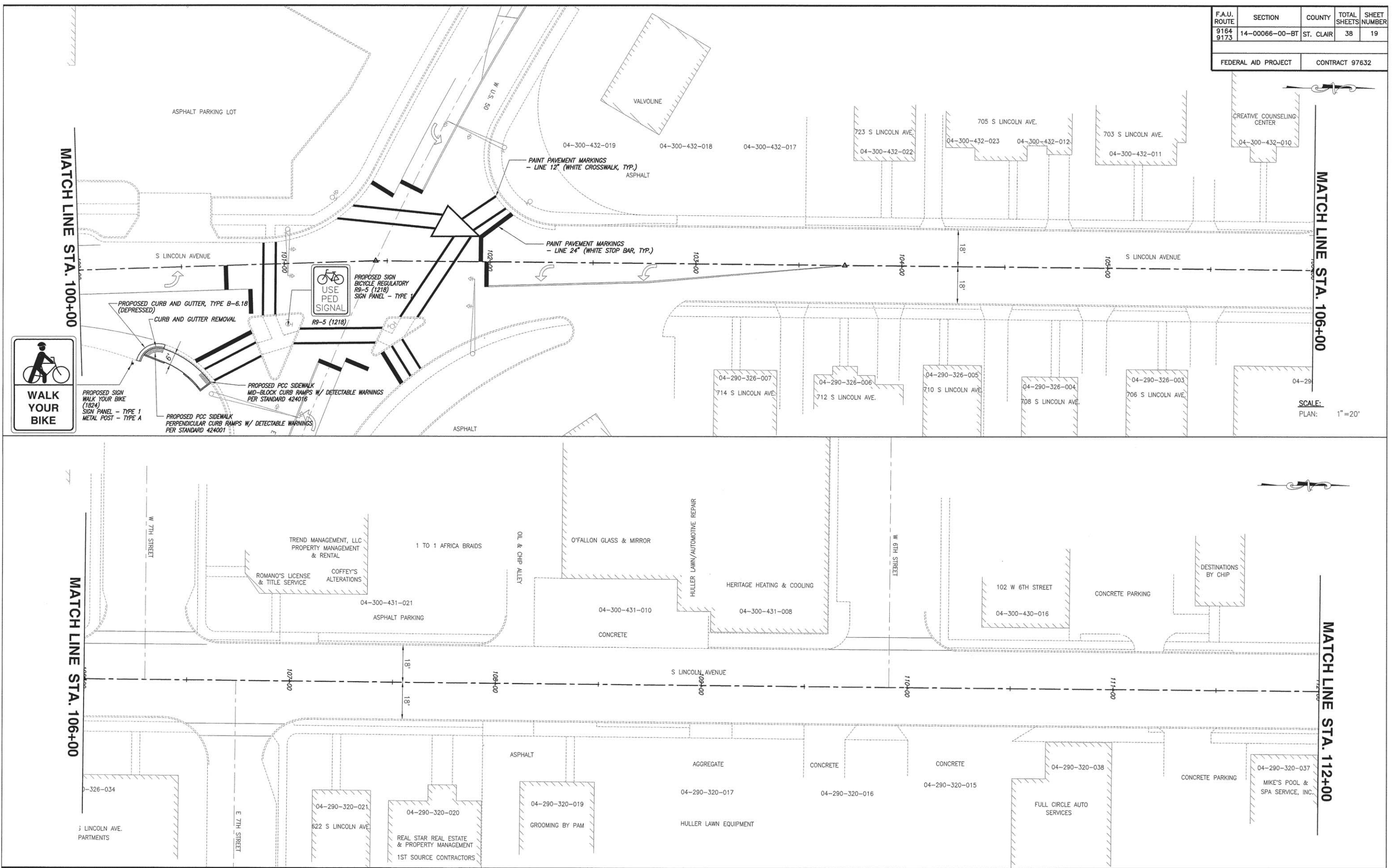
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	18
FEDERAL AID PROJECT		CONTRACT 97632		

* - THE CONTRACTOR SHALL STAGE THE WORK IN SUCH A WAY THAT VEHICULAR ACCESS TO THE PARKING AREA IS MAINTAINED AT ALL TIMES. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY REQUIRED STAGING IN ORDER TO COMPLY THE ABOVE.



PLAN & PROFILE ILLINI BIKE TRAIL IMPROVEMENTS
O'FALLON, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	19
FEDERAL AID PROJECT		CONTRACT 97632		



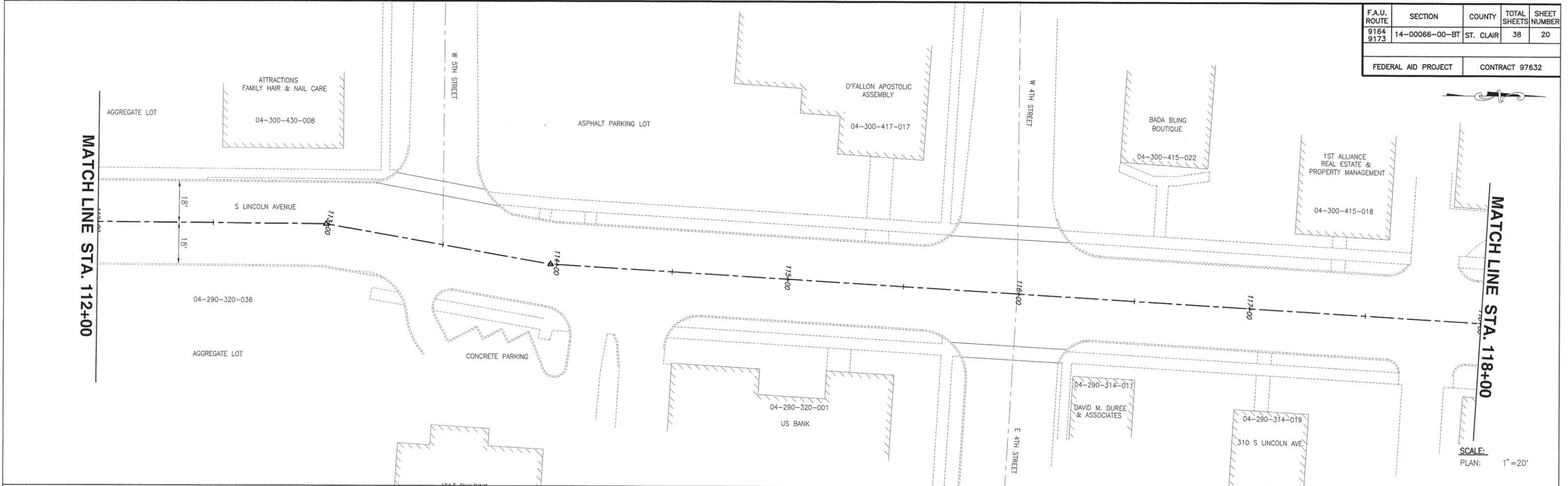
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	20
FEDERAL AID PROJECT		CONTRACT 97632		



MATCH LINE STA. 112+00

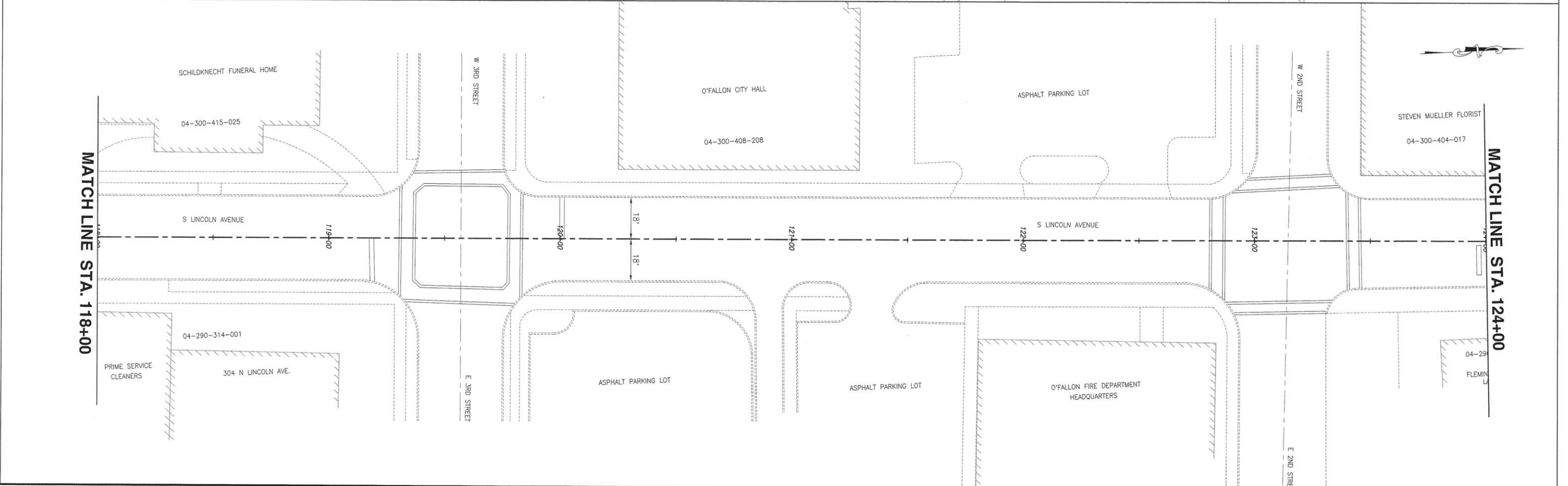
MATCH LINE STA. 118+00

SCALE:
PLAN: 1"=20'



MATCH LINE STA. 118+00

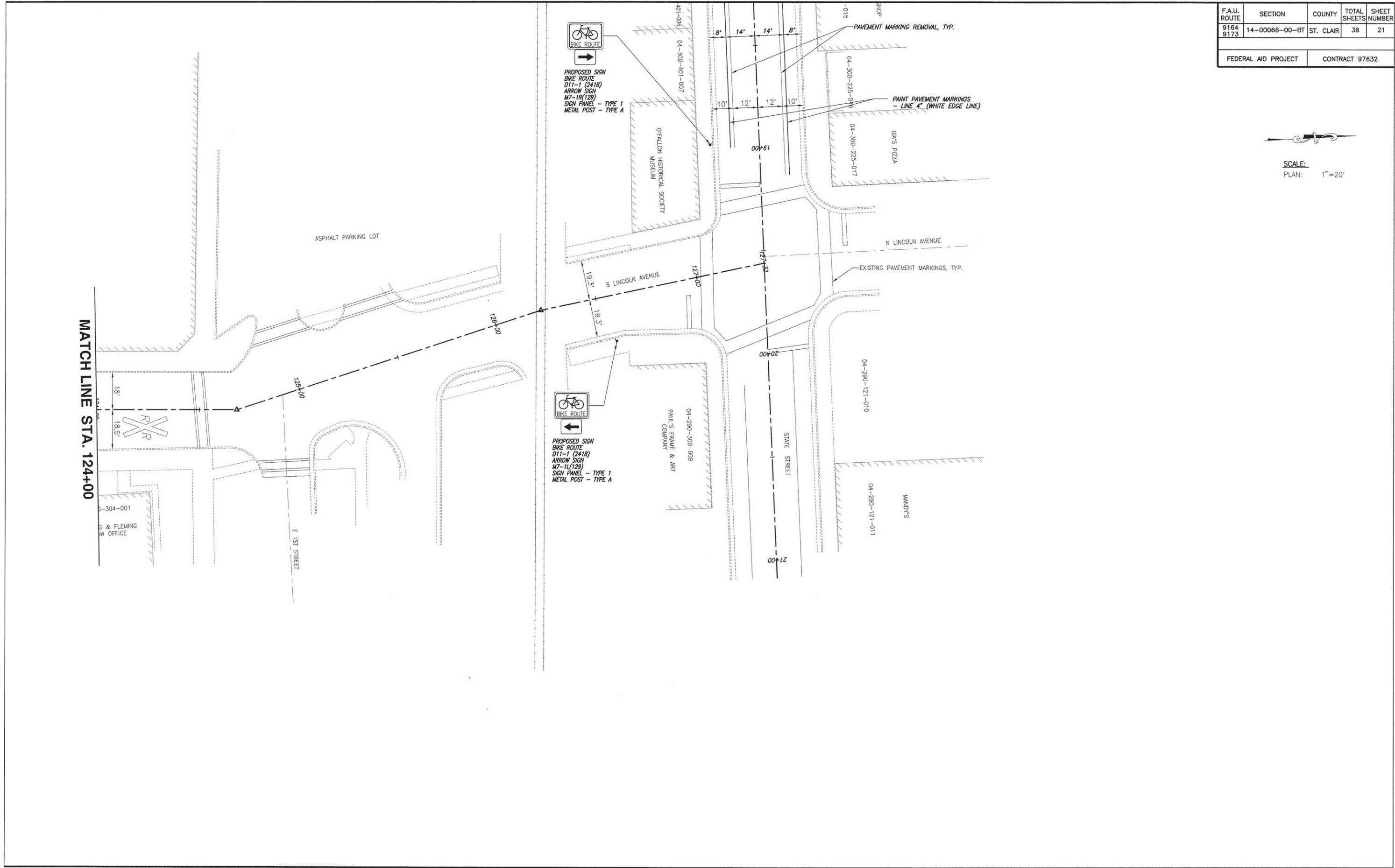
MATCH LINE STA. 124+00



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	21
FEDERAL AID PROJECT		CONTRACT 97632		



SCALE:
PLAN: 1"=20'

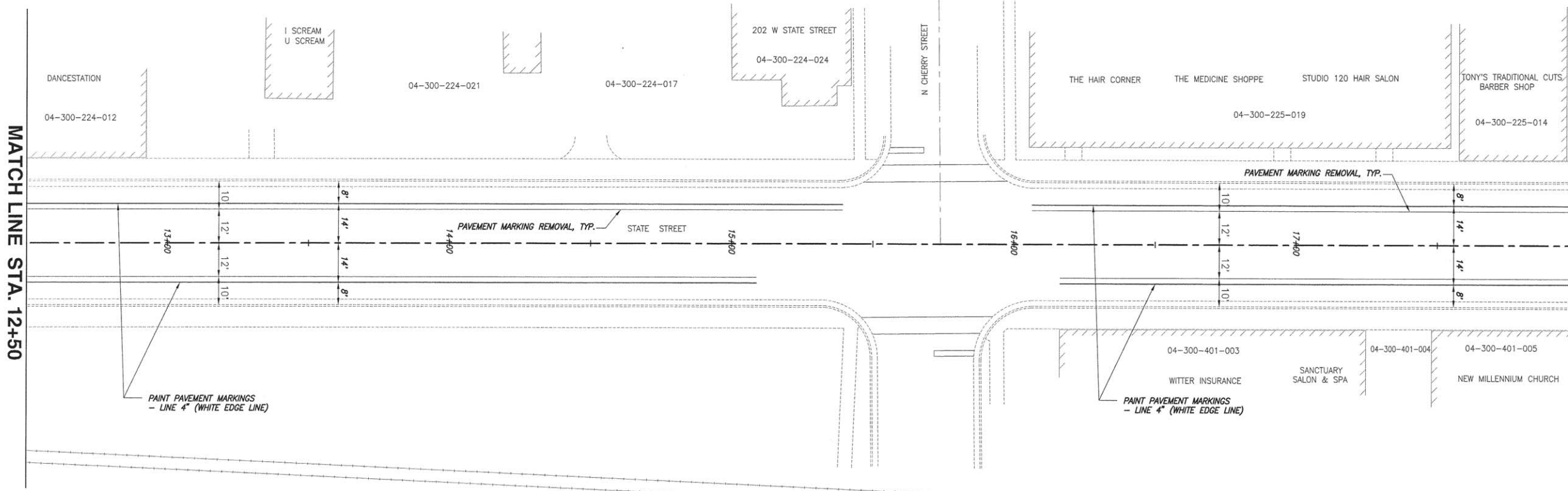


MATCH LINE STA. 124+00

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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FEDERAL AID PROJECT		CONTRACT 97632		

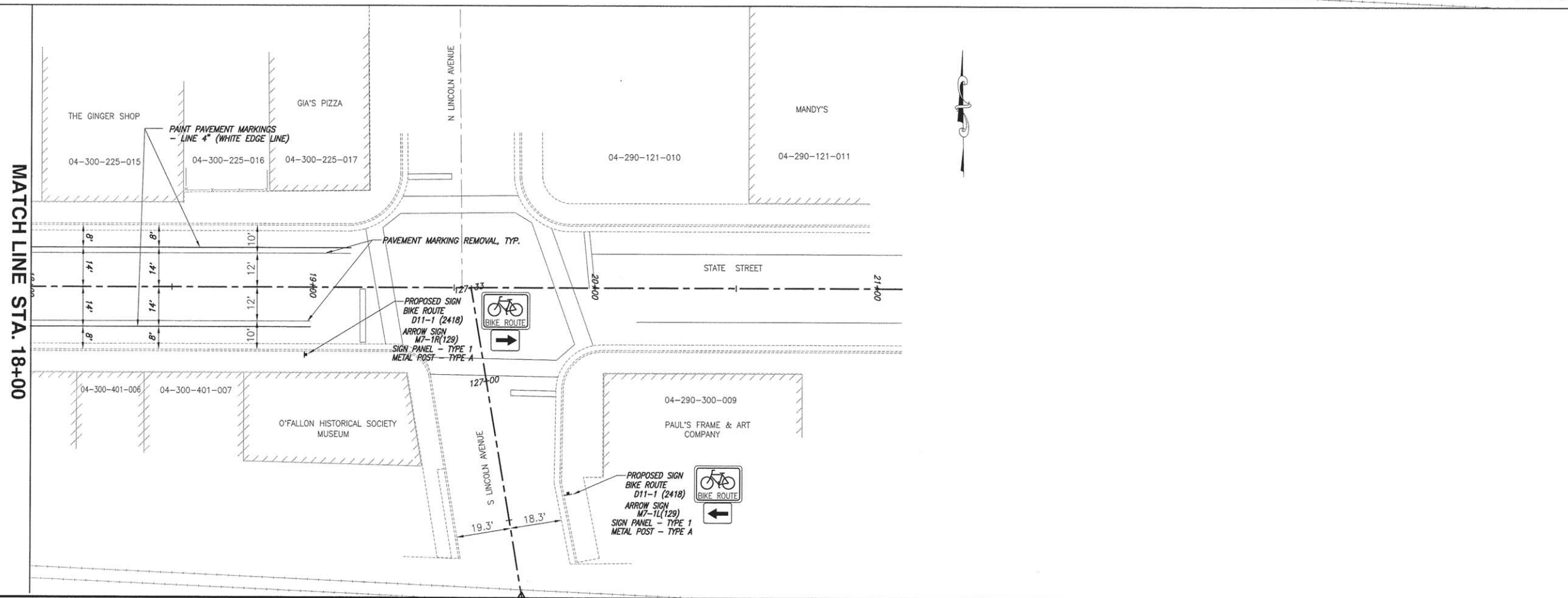
MATCH LINE STA. 12+50

MATCH LINE STA. 18+00

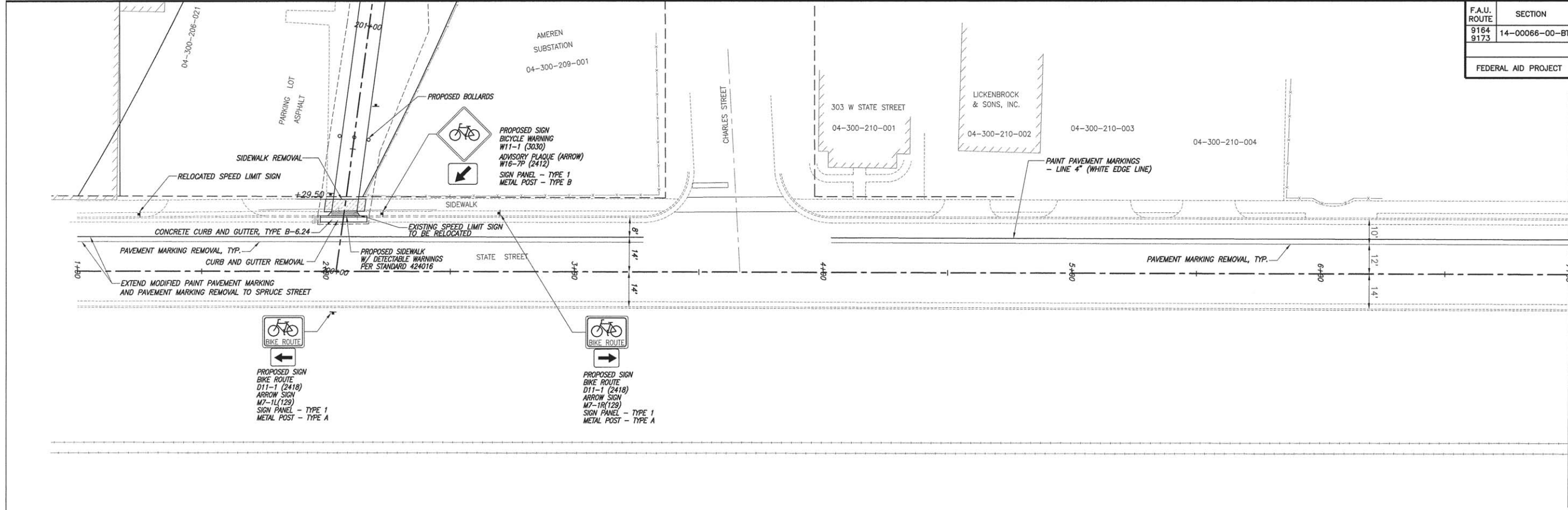


SCALE:
PLAN: 1" = 20'

MATCH LINE STA. 18+00

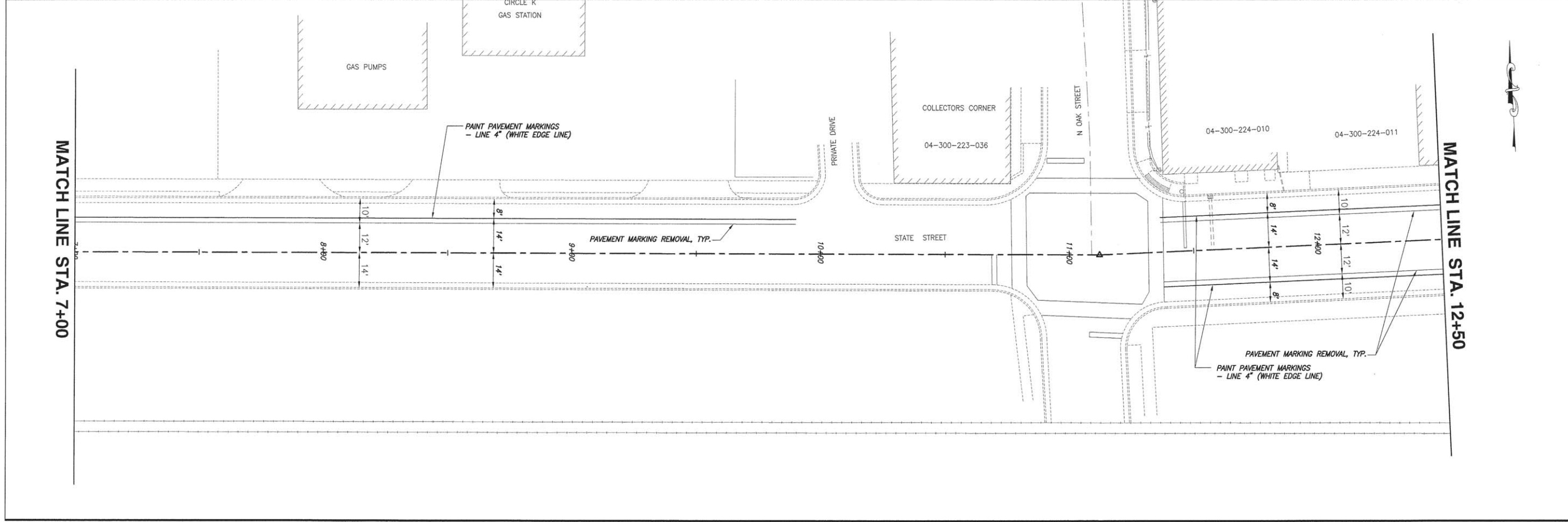


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	23
FEDERAL AID PROJECT		CONTRACT 97632		



MATCH LINE STA. 7+00

SCALE:
PLAN: 1" = 20'

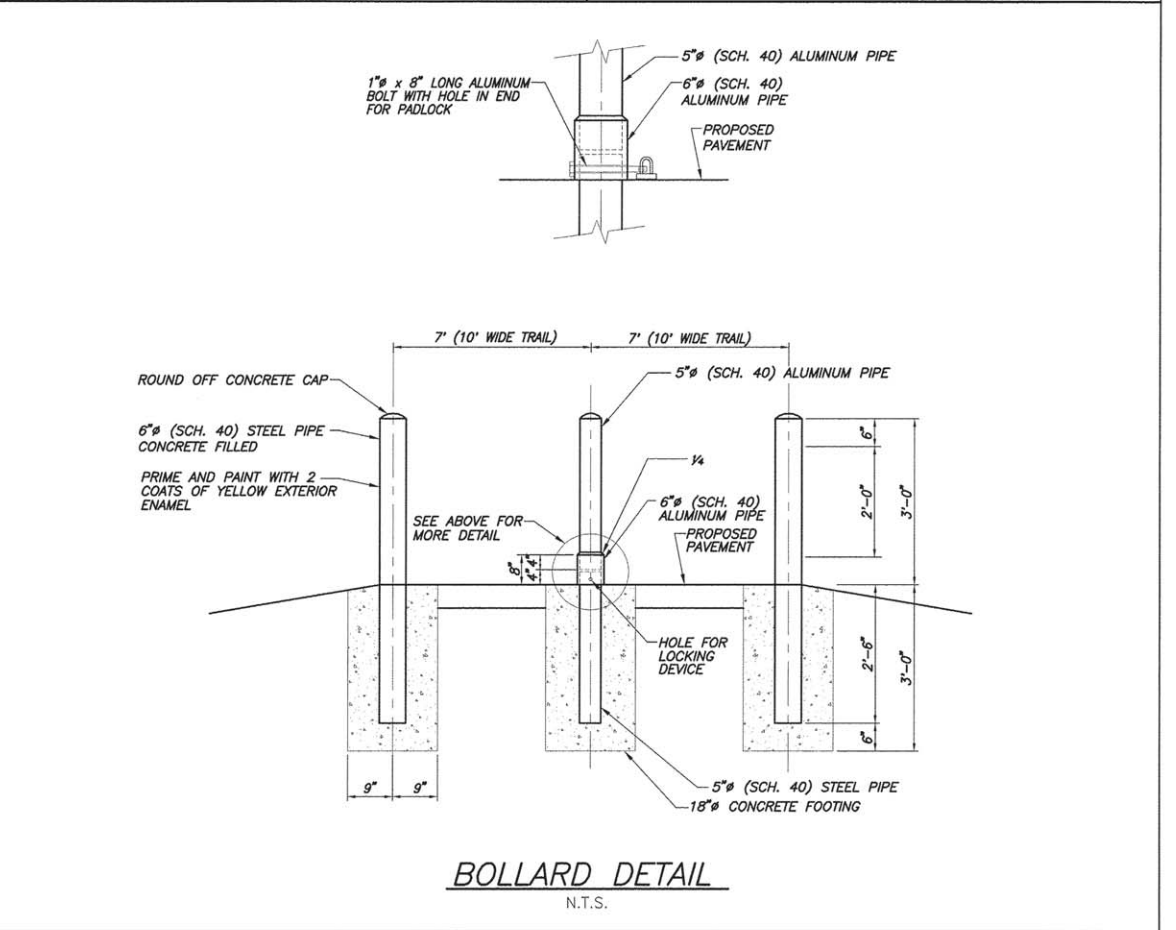
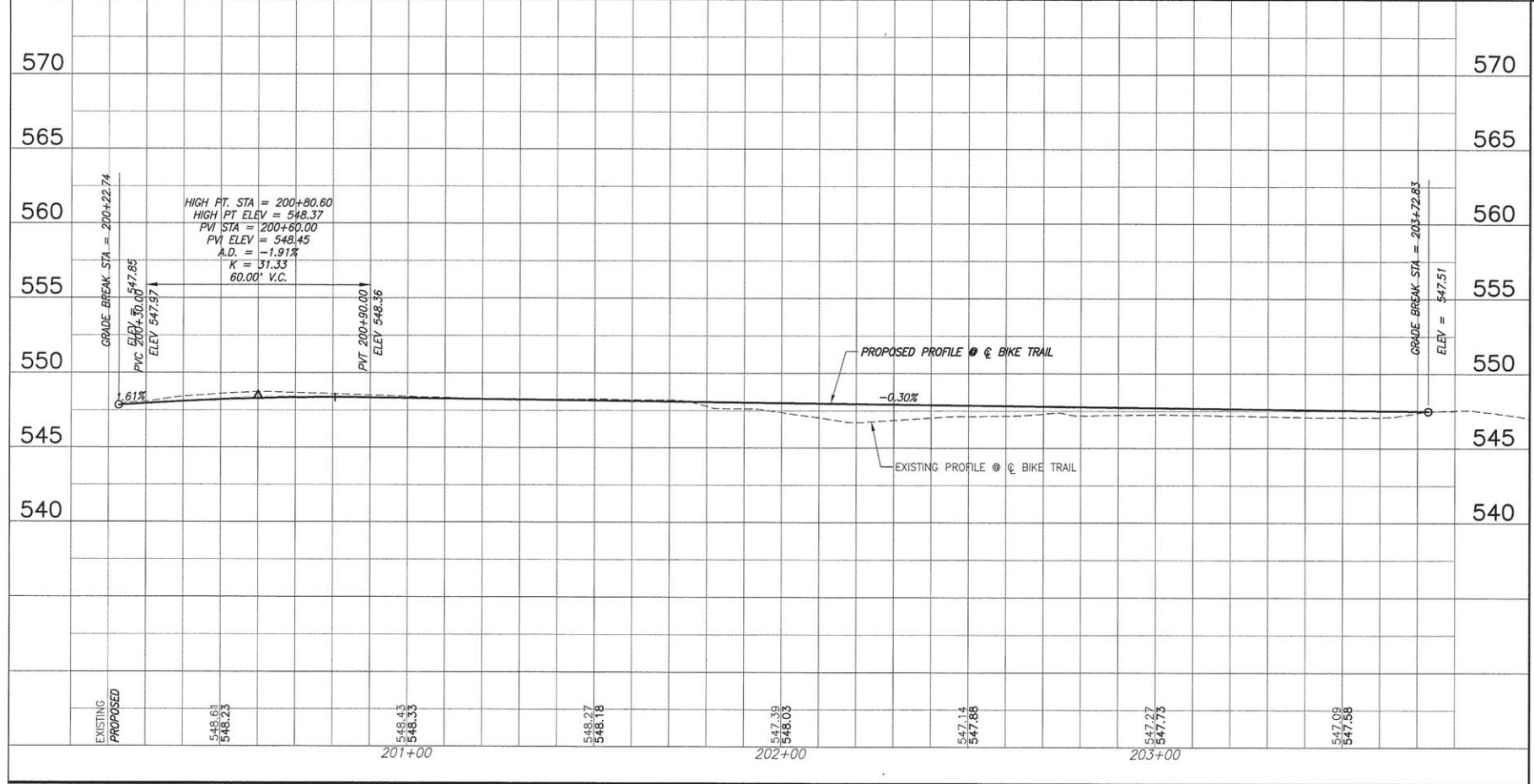
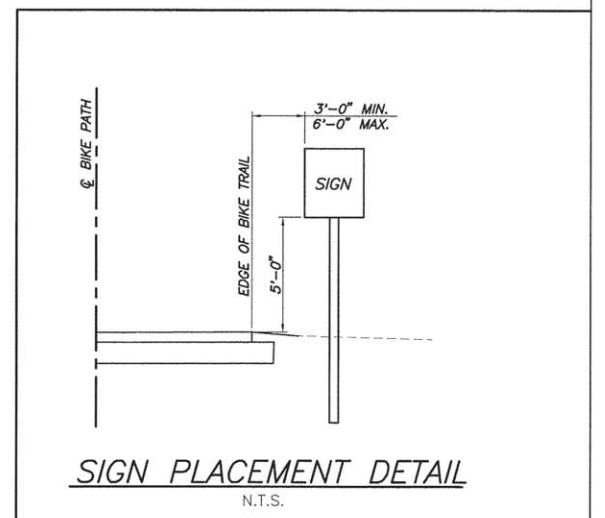
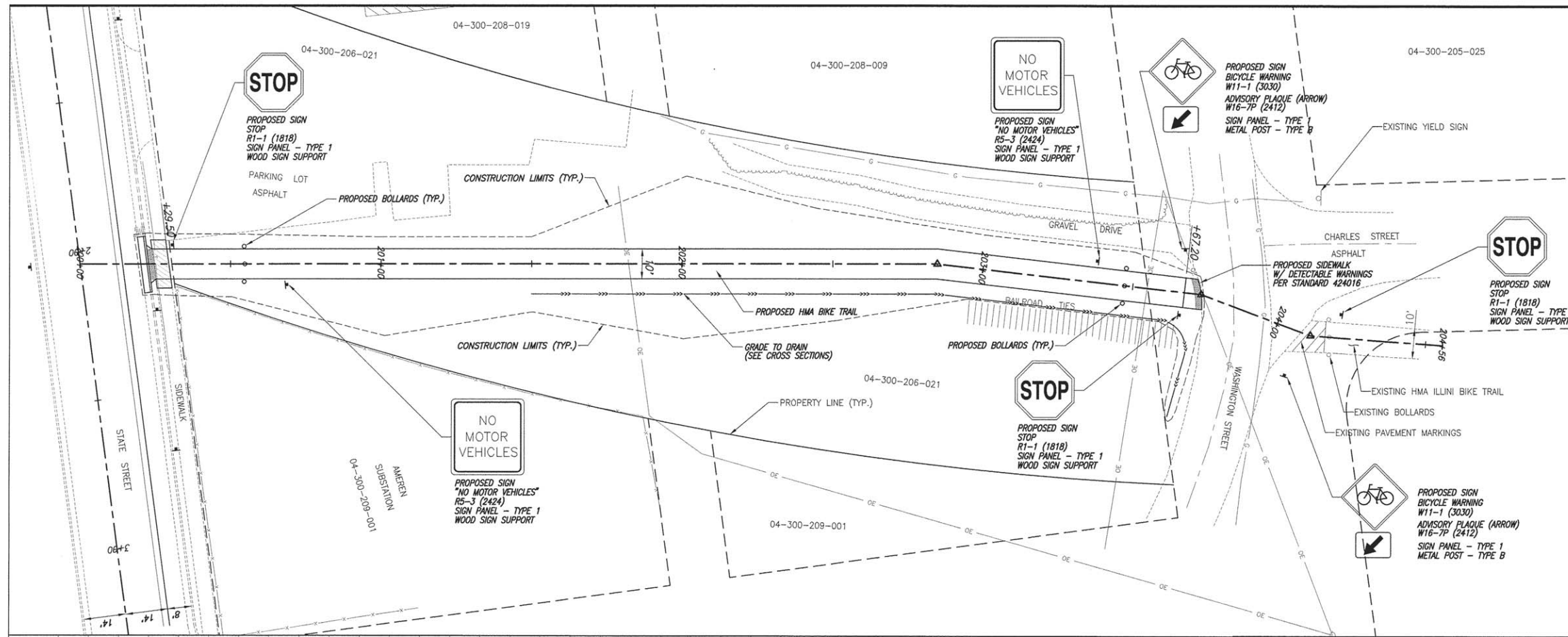


MATCH LINE STA. 7+00

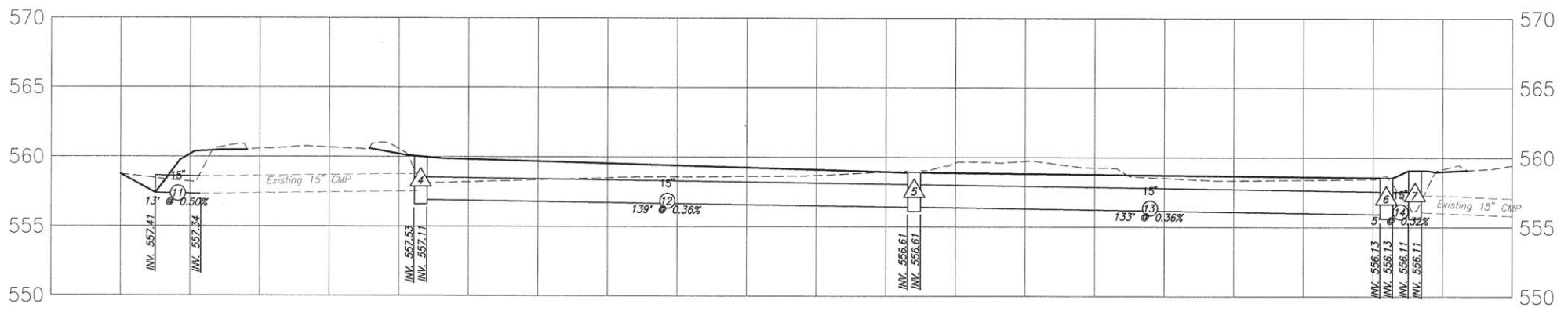
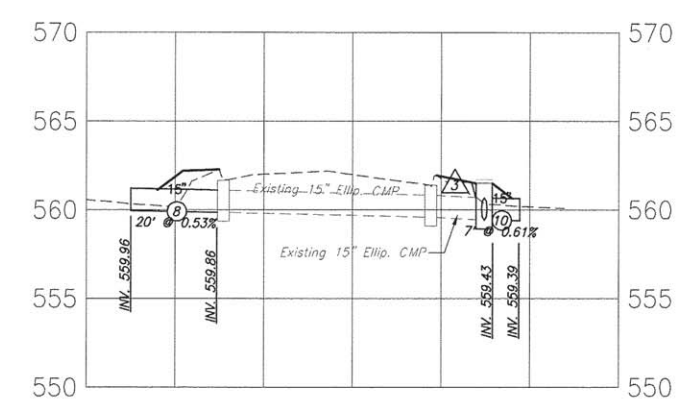
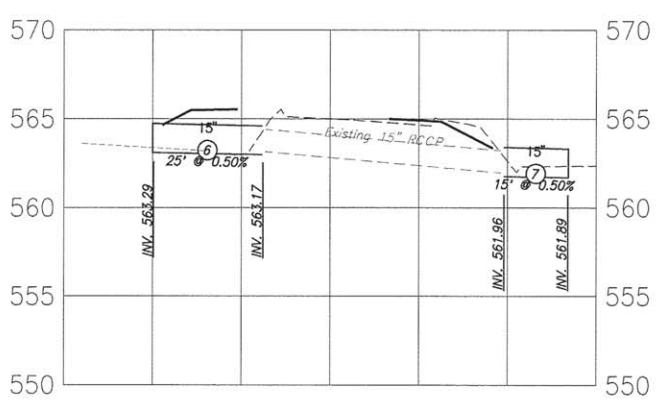
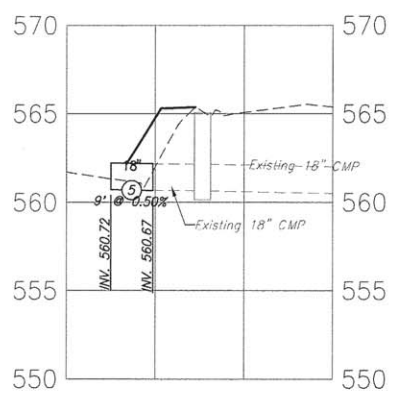
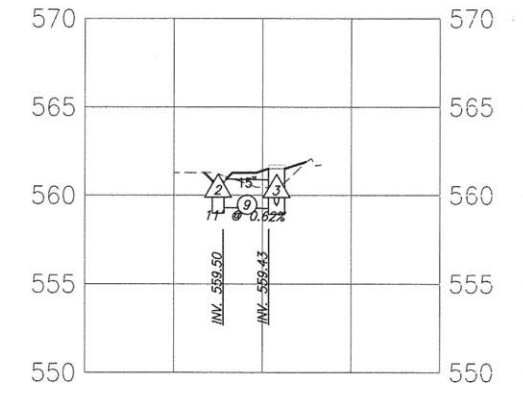
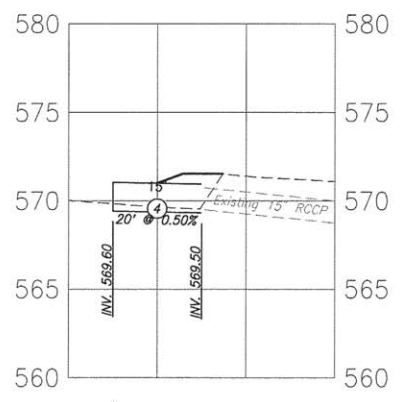
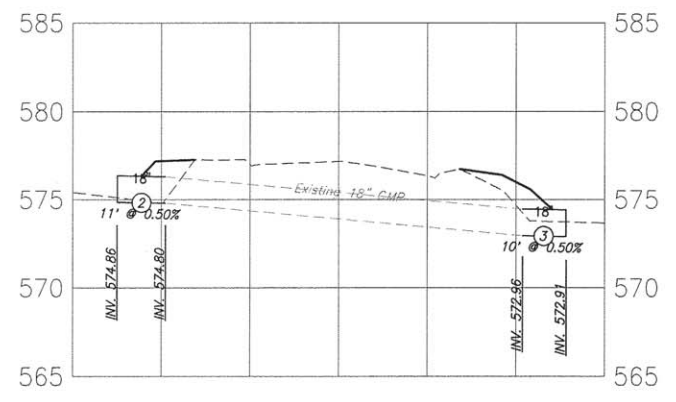
MATCH LINE STA. 12+50

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	24
FEDERAL AID PROJECT		CONTRACT 97632		

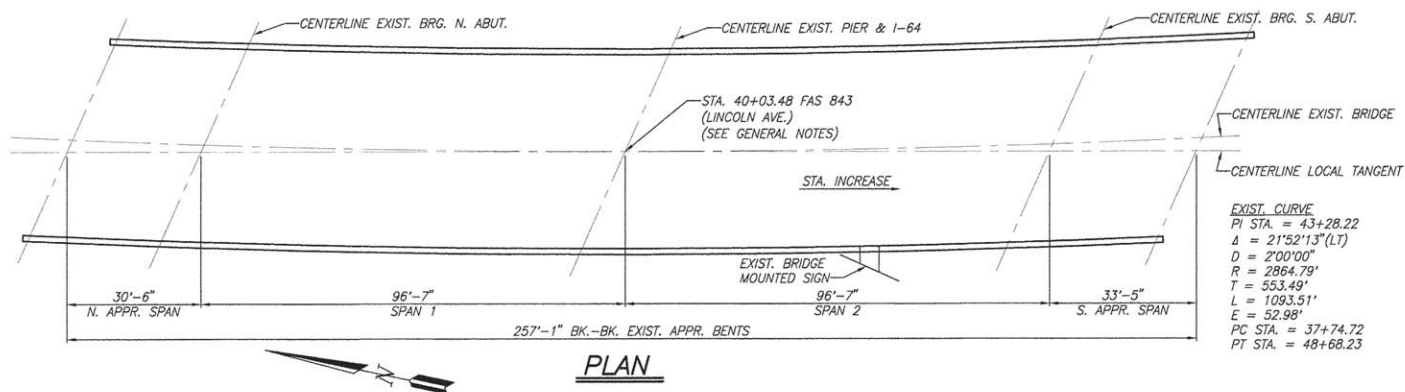
SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	25
FEDERAL AID PROJECT		CONTRACT 97632		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	26
FEDERAL AID PROJECT			CONTRACT 97632	



GENERAL NOTES:
 PLAN DIMENSIONS, STATIONING AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SUCH DIMENSIONS AND DETAILS AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.

ALL STRUCTURAL STEEL SHALL BE AASHTO M 270 GRADE 36, UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL TUBING SHALL BE A500, GRADE B (F_y=46ksi). THREADED RODS SHALL BE ASTM F1554, GRADE 36 OF THE GRADE AND DIAMETER SPECIFIED AND SHALL BE GALVANIZED (PAINT OVER EXPOSED GALVANIZATION - SEE NOTE BELOW). THE CORRESPONDING SPECIFIED GRADE OF AASHTO M 314 MAY BE USED IN LIEU OF ASTM F1554.

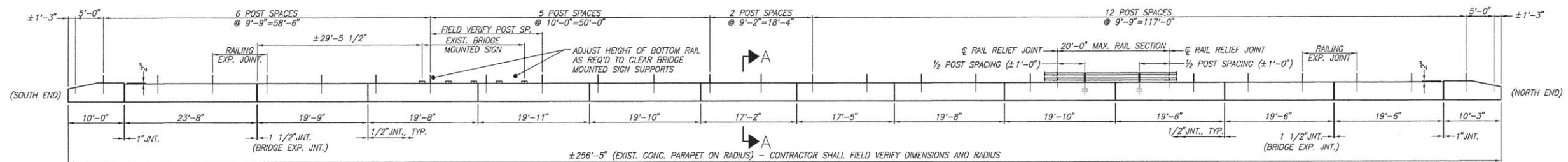
DRILL AND SET THREADED RODS ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS.

ALL STEEL RAIL ELEMENTS AND HARDWARE SHALL BE PAINTED BLACK. ORGANIC ZINC RICH PRIMER / EPOXY / URETHANE PAINT SYSTEM SHALL BE USED. THE ENTIRE SYSTEM SHALL BE SHOP APPLIED, WITH THE EXCEPTION THAT MASKED OFF CONNECTION SURFACES, FIELD INSTALLED FASTENERS AND DAMAGED AREAS SHALL BE TOUCHED UP IN THE FIELD. THE COLOR OF THE FINAL FINISH COAT SHALL BE BLACK, MUNSELL NO. N1. SEE SECTION 506 OF THE STANDARD SPECIFICATIONS.

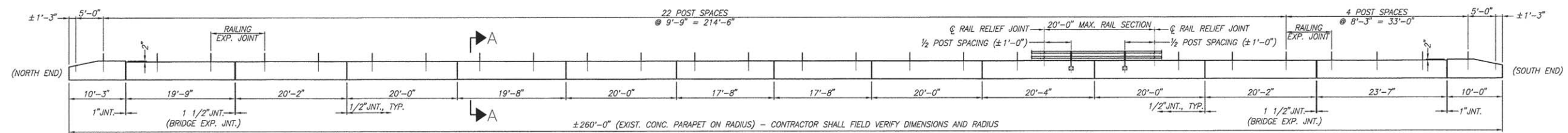
POSTS SHALL BE VERTICAL WHEN ERECTED. 10'-0" MAX. POST SPACING. 1'-3" MIN. BETWEEN CENTERLINE POST & PARAPET JOINT OR END OF BRIDGE. RAILING EXPANSION JOINTS SHALL BE PROVIDED BETWEEN ANY TWO (2) POSTS WHICH SPAN A BRIDGE EXPANSION JOINT. RAILING RELIEF JOINTS SHALL BE PLACED BETWEEN RAIL SECTIONS THAT DO NOT SPAN OVER AN EXPANSION JOINT.

DO NOT SCALE THESE DRAWINGS.
 SEE TRAFFIC CONTROL PLAN AND SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION REQUIREMENTS.

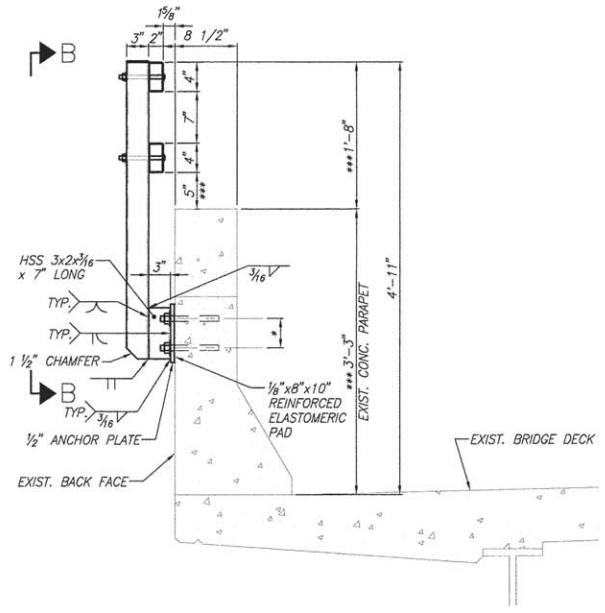
EXIST. CURVE
 PI STA. = 43+28.22
 Δ = 21°52'13" (LT)
 D = 2'00"00"
 R = 2864.79'
 T = 553.49'
 L = 1093.51'
 E = 52.98'
 PC STA. = 37+74.72
 PT STA. = 48+68.23



INSIDE ELEVATION OF EXIST. WEST PARAPET
 (LOOKING WEST)

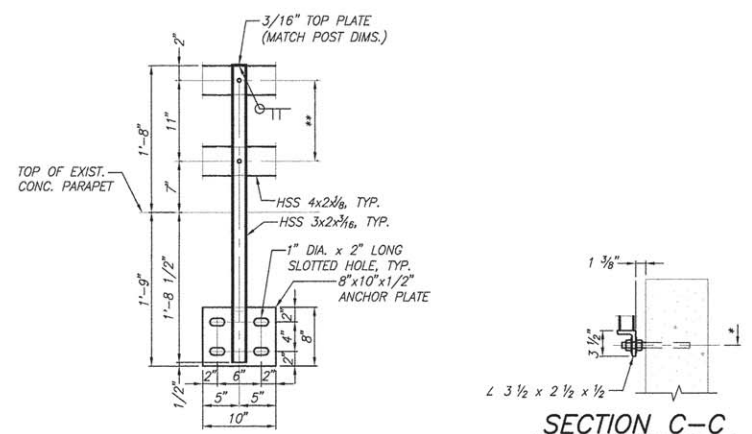


INSIDE ELEVATION OF EXIST. EAST PARAPET
 (LOOKING EAST)



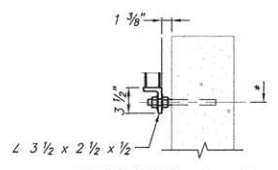
SECTION A-A THRU PARAPET

* \varnothing 3/4" THREADED RODS WITH NUTS AND WASHERS (6" MIN. EMBEDMENT)
 *** DIMENSION VARIES AT END OF PARAPET - SEE ELEVATION AT END OF PARAPET



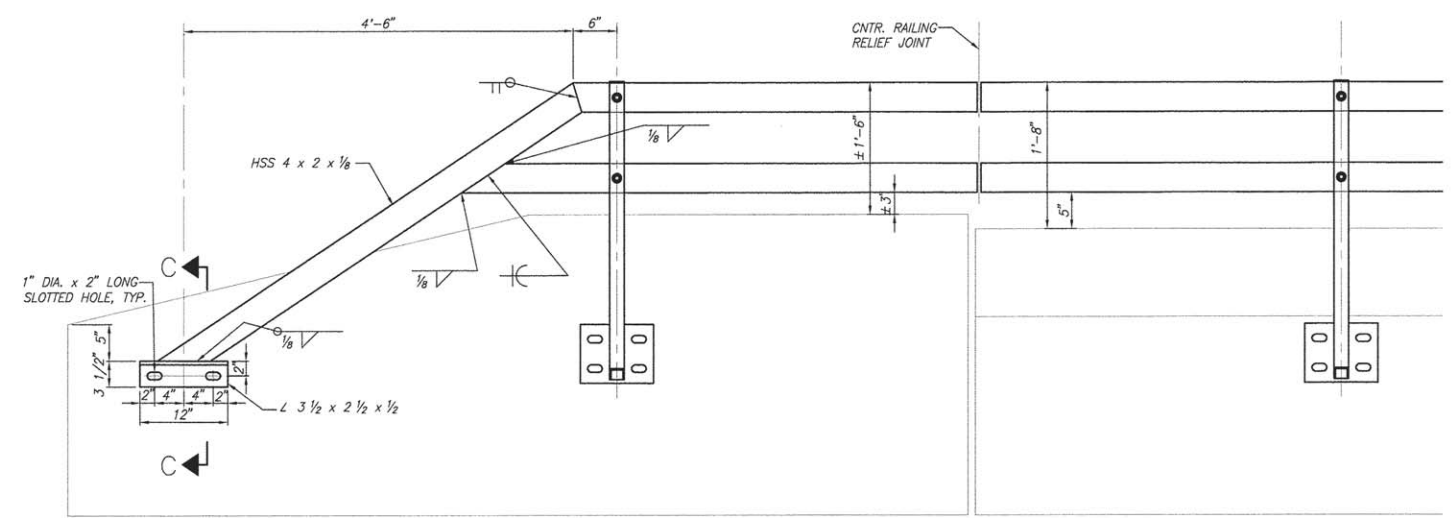
SECTION B-B
 (BOLTS OMITTED FOR CLARITY)

** \varnothing 1/2" ROUND HEAD BOLTS WITH LOCKNUT AND FLAT WASHER. 3/8" HOLES IN HOLLOW STRUCTURAL SECTION MAY BE DRILLED IN THE FIELD.



SECTION C-C

* \varnothing 3/4" THREADED RODS WITH NUTS AND WASHERS (6" MIN. EMBEDMENT)



ELEVATION AT END OF PARAPET
 (OUTSIDE ELEVATION)

NOTE: ANCHOR RODS NOT SHOWN FOR CLARITY

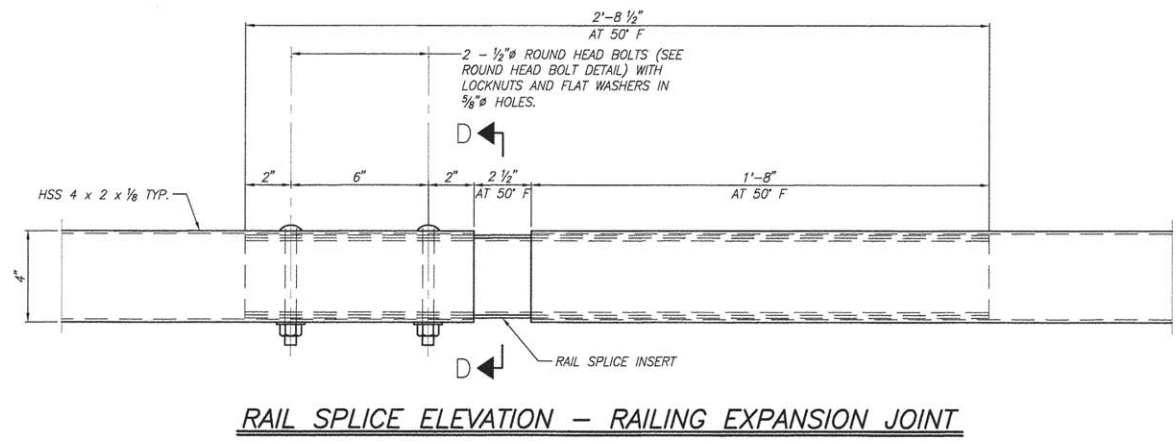
WILLIAM D. LUEKING
 81-4341
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS
 William D. Lueking
 Date of Signing: 05/24/2016
 Date of License Expiration: 11-30-2016

RAAI JOB NO.: 40515

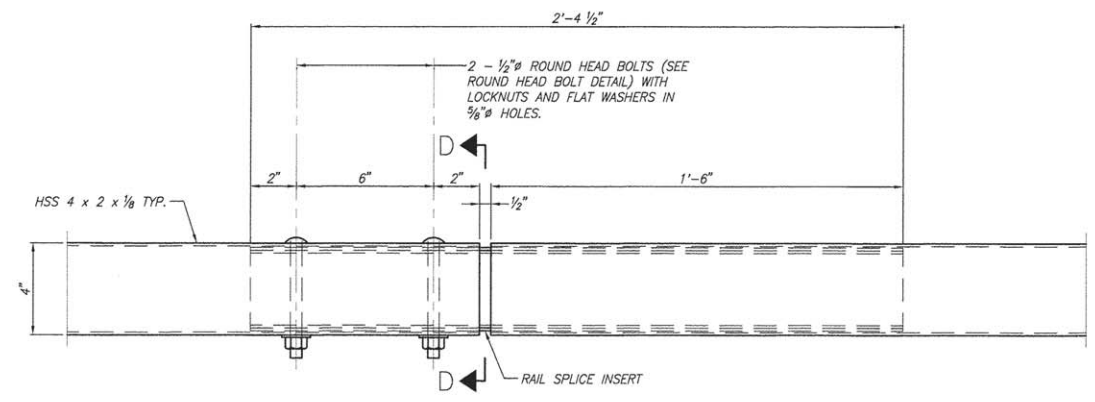
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
BICYCLE RAILING (PARAPET MOUNTED)	FOOT	512

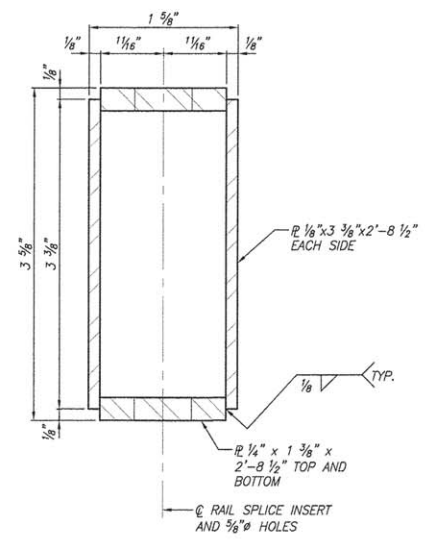
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	27
FEDERAL AID PROJECT			CONTRACT 97632	



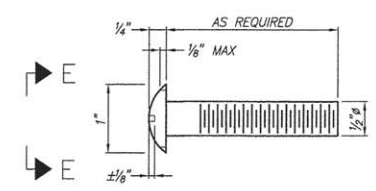
RAIL SPLICE ELEVATION - RAILING EXPANSION JOINT



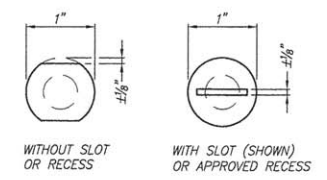
RAIL SPLICE ELEVATION - RAILING RELIEF JOINT



SECTION D-D



ROUND HEAD BOLT DETAIL



VIEW E-E



William D. Lueking
 William D. Lueking
 05/24/2016
 Date of Signing
 11-30-2016
 Date of License Expiration

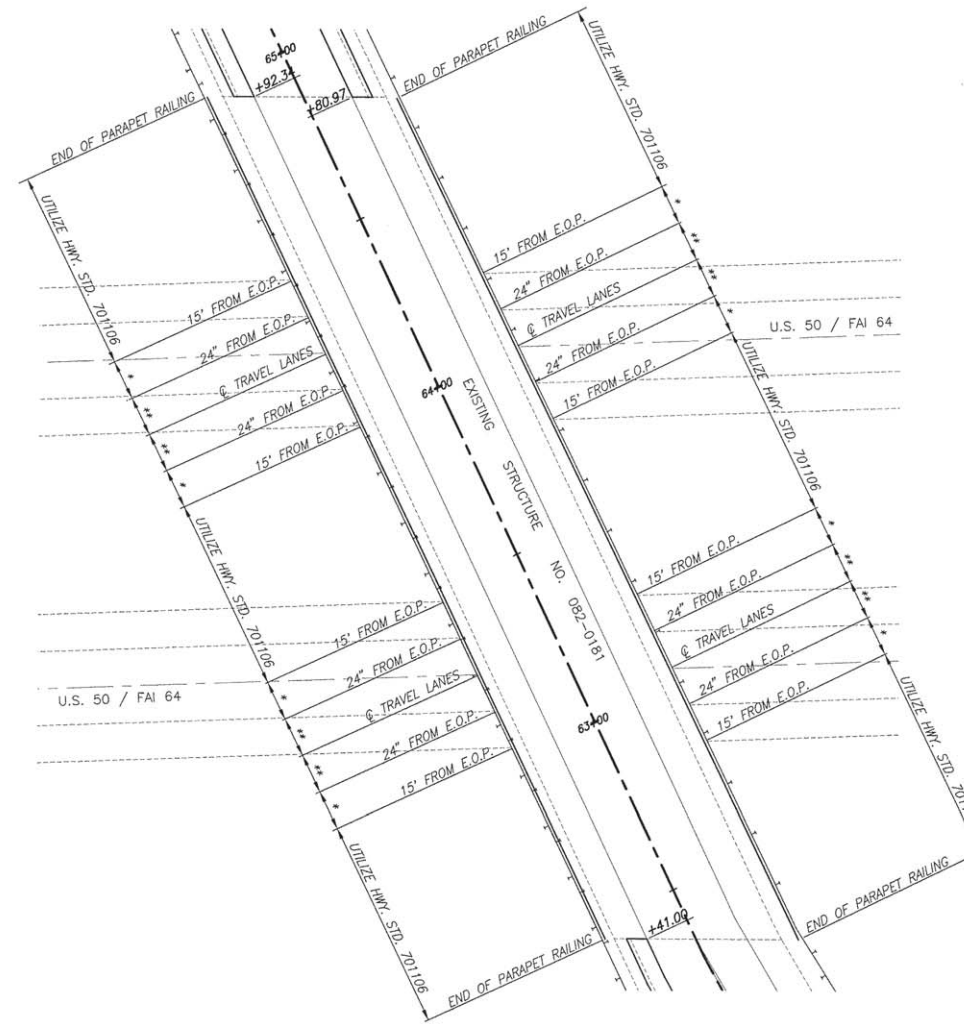
RAAI JOB NO.: 40515

TRAFFIC CONTROL PLAN GENERAL NOTES

1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS, THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND APPLICABLE HIGHWAY STANDARDS AND SHALL BE IN PLACE BEFORE CONSTRUCTION BEGINS.
2. THE COST OF FURNISHING, INSTALLING, RELOCATING, AND REMOVING ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE INCLUDED UNDER THE RELEVANT TRAFFIC CONTROL AND PROTECTION PAY ITEM.
3. ALL SIGN SUPPORTS AND CHANNELIZING DEVICES SHALL BE CERTIFIED BY THE CONTRACTOR OR MANUFACTURER AS MEETING THE APPLICABLE NCHRP REPORT 350, TEST LEVEL 3.
4. THE CONTRACTOR SHALL UTILIZE THIS TRAFFIC CONTROL PLAN, AS WELL AS THE APPLICABLE HIGHWAY STANDARDS DURING CONSTRUCTION OF THE BICYCLE RAILING (PARAPET MOUNTED) ON THE EXISTING STRUCTURE OVER I-64.
5. THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK TO ALLOW FOR COORDINATION BETWEEN THE TRAFFIC CONTROL PLAN AND THE VARIOUS ITEMS OF WORK REQUIRED.
6. THE EXACT NUMBER, LOCATION AND SPACING OF ALL TRAFFIC CONTROL SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. LOCATIONS OF SIGNS AND BARRICADES SHOWN ON THE PLANS IS APPROXIMATE. BARRICADES SHALL BE INSTALLED AS REQUIRED TO ACHIEVE A PROPER CLOSURE OR AS OTHERWISE DIRECTED ON THE PLANS OR BY THE ENGINEER. SIGNS SHALL BE INSTALLED RELATIVE TO CLOSURES OR HAZARDS AS DIRECTED ON THE PLANS, HIGHWAY STANDARDS, AND BY THE ENGINEER.
7. WHEN SPECIFIC I.D.O.T. TRAFFIC CONTROL STANDARDS ARE CITED, ALL APPURTENANCES INCLUDED ON THAT STANDARD, SUCH AS ARROW BOARDS, BARRICADES, VERTICAL PANELS, CHANGEABLE MESSAGE BOARDS, ETC. SHALL BE INSTALLED IN THE LOCATIONS AND TO THE SPECIFICATIONS DESCRIBED.
8. ALL TEMPORARY LANE CLOSURES ON I-64 SHALL BE DONE DURING OFF-PEAK TRAFFIC PERIODS. PEAK TRAFFIC PERIODS ARE IDENTIFIED AS FOLLOWS:
 - A.) WESTBOUND I-64 - 6:00 A.M. - 7:00 P.M.
 - B.) EASTBOUND I-64 - 6:00 A.M. - 8:00 A.M. & 12:00 P.M. - 8:00 P.M.

ADDITIONALLY, LANE CLOSURES WILL ONLY BE PERMITTED FOR THREE (3) CALENDAR DAYS.
9. STANDARD 701426 SHALL BE UTILIZED FOR ALL TEMPORARY CLOSURES LASTING ONE (1) HOUR AND LESS. STANDARD 701406 AND 701446 SHALL BE USED, AS APPLICABLE, FOR TEMPORARY LANE CLOSURES LASTING MORE THAN ONE (1) HOUR. STANDARD 701400 AND 701428 SHALL BE USED IN CONJUNCTION WITH STANDARD 701406 AND 701446 FOR APPROACHES TO TEMPORARY LANE CLOSURES.
10. STANDARD 701106 SHALL BE UTILIZED WHEN WORK IS BEING CONDUCTED MORE THAN 15' OUTSIDE THE EDGE OF PAVEMENT. STANDARD 701101 SHALL BE USED WHEN NO LANE CLOSURES ARE REQUIRED BUT WORK IS WITHIN 24" TO 15' OF THE EDGE OF PAVEMENT.
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL. THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF SIXTEEN (16) WEIGHTED SAND BAGS ON EACH TYPE III BARRICADE USED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT ITEMS FOR WORK.
12. ALL TRAFFIC CONTROL DEVICES (BARRELS, BARRICADES, PANELS, SIGNS, ETC.) SHALL BE IN NEW OR LIKE NEW CONDITION. WHEN DEVICES BECOME WORN, DIRTY, FADED, OR OTHERWISE DEEMED BY THE ENGINEER AS NO LONGER IN LIKE NEW CONDITION, THE DEVICES SHALL BE CLEANED, REFURBISHED, OR REPLACED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT ITEMS OF WORK.
13. THE CONTRACTOR SHALL COORDINATE HIS TRAFFIC CONTROL EFFORTS WITH THE ONGOING I-64/RIEDER ROAD INTERCHANGE PROJECT WHICH IS EXPECTED TO LAST UNTIL LATE IN 2017. THE CONTRACT NUMBER FOR THIS PROJECT IS 97546 AND IS IDENTIFIED AS SECTION 09-00365-01-PV.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	28
FEDERAL AID PROJECT		CONTRACT 97632		



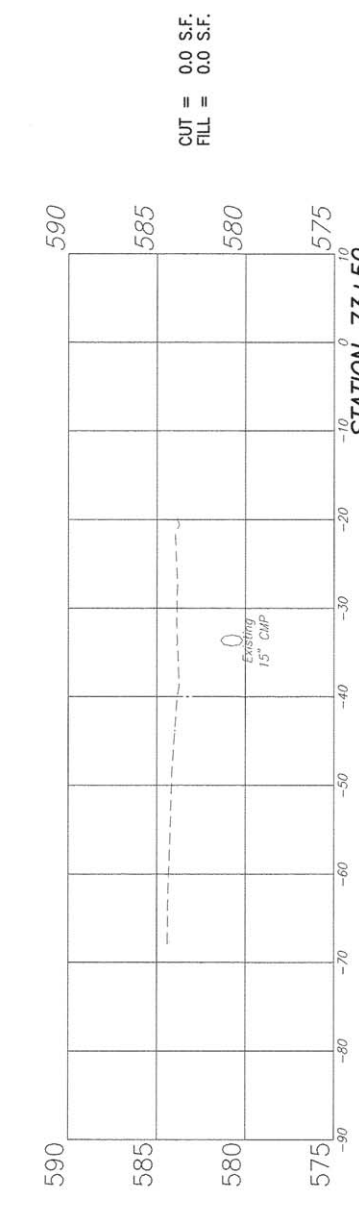
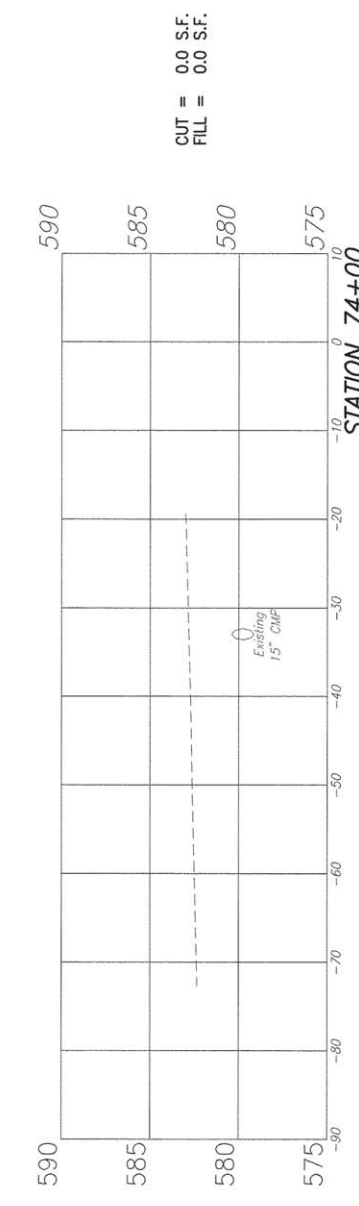
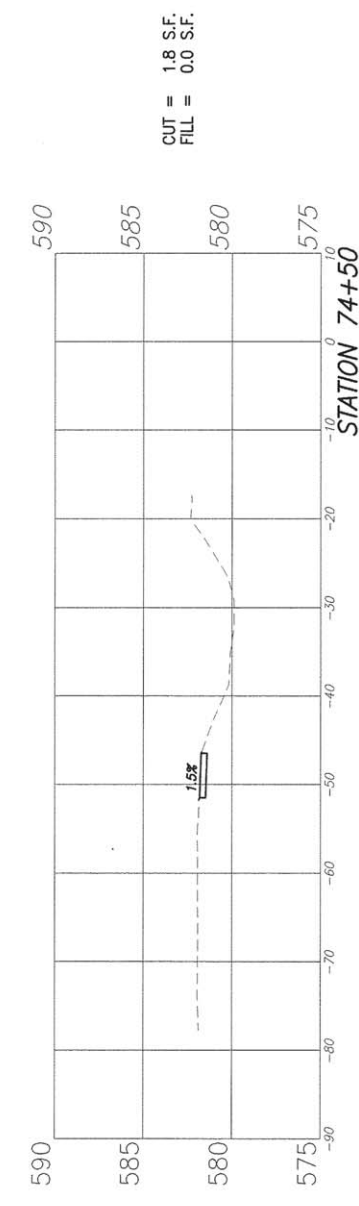
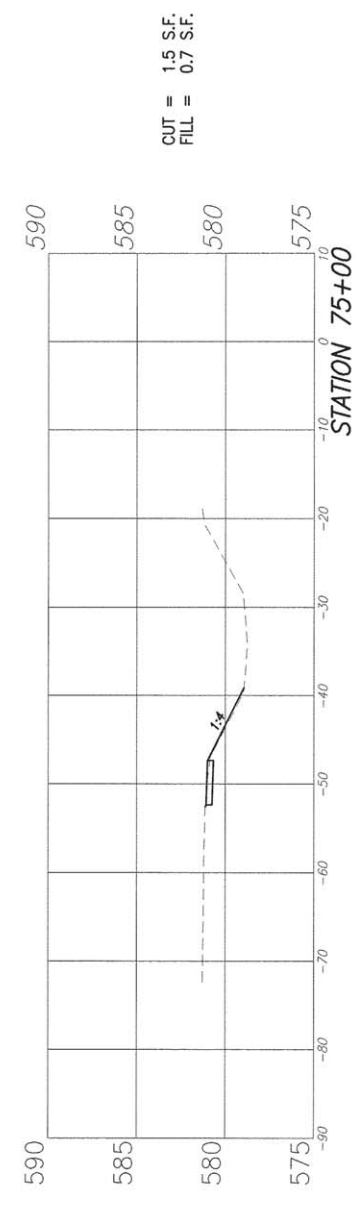
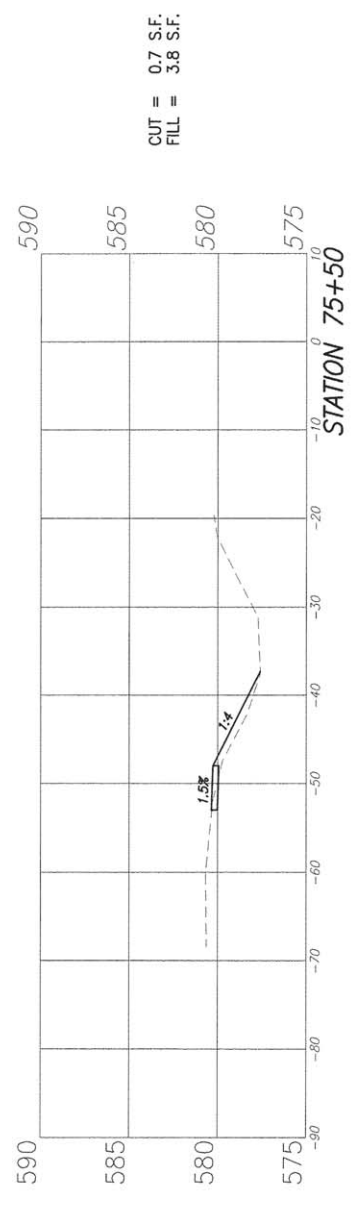
UTILIZATION OF HIGHWAY STANDARDS BASED ON LOCATION OF WORK

ANY TIME WORK IS BEING CONDUCTED WHERE LANE CLOSURE WILL BE ONE (1) HOUR OR LESS, HIGHWAY STANDARD 701426 MAY BE UTILIZED.

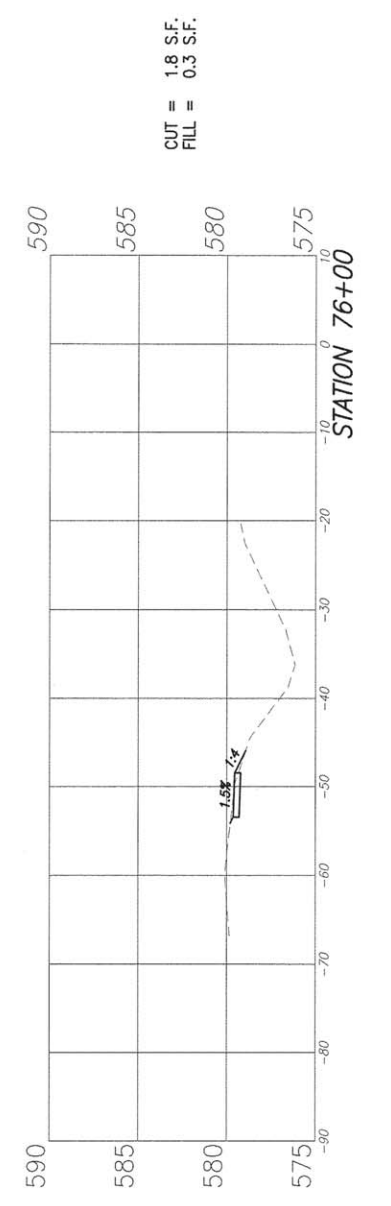
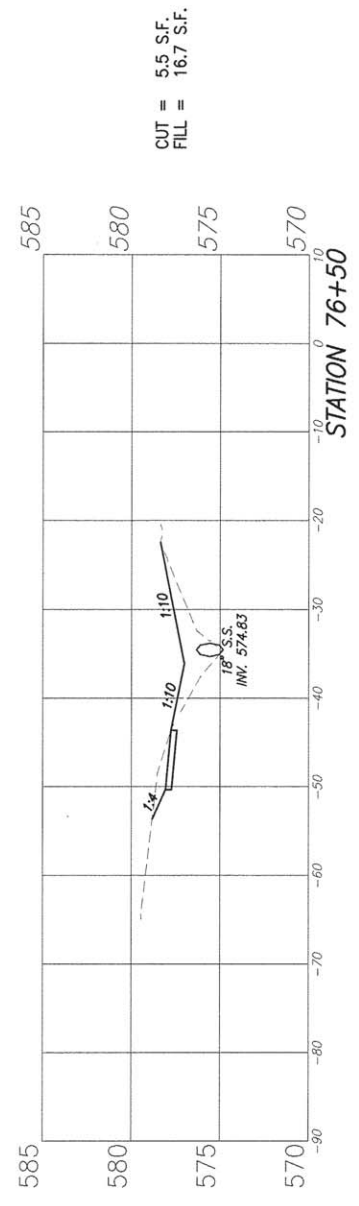
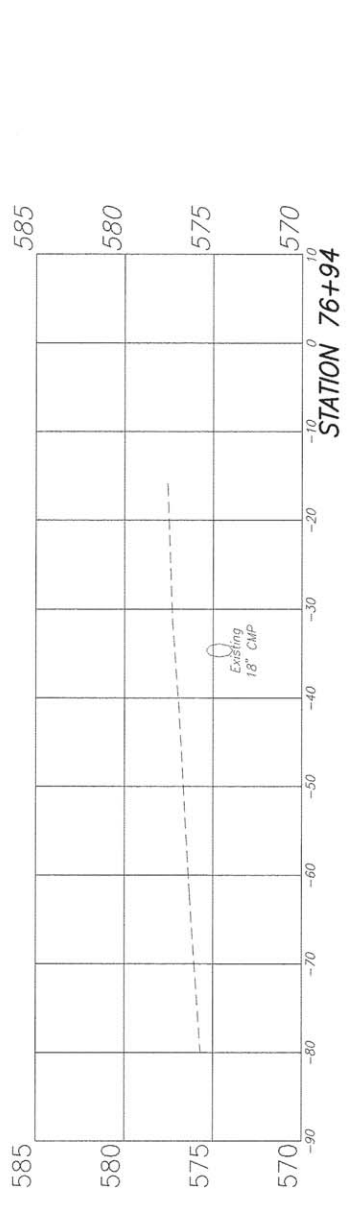
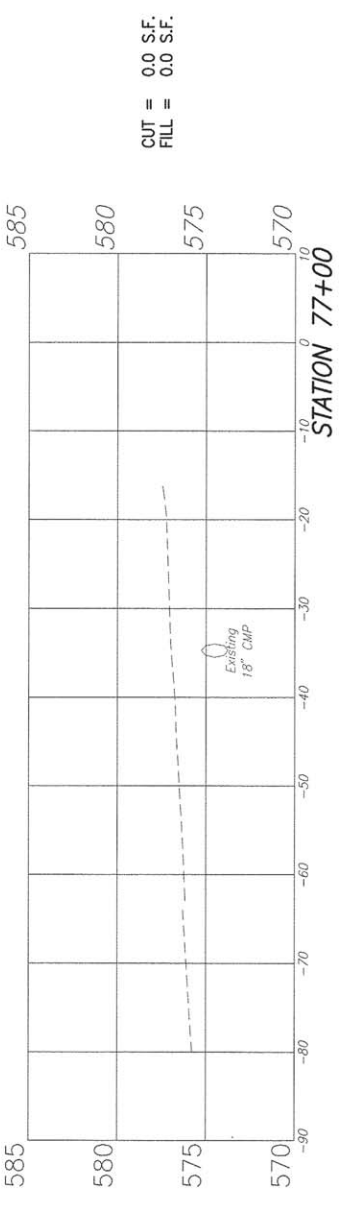
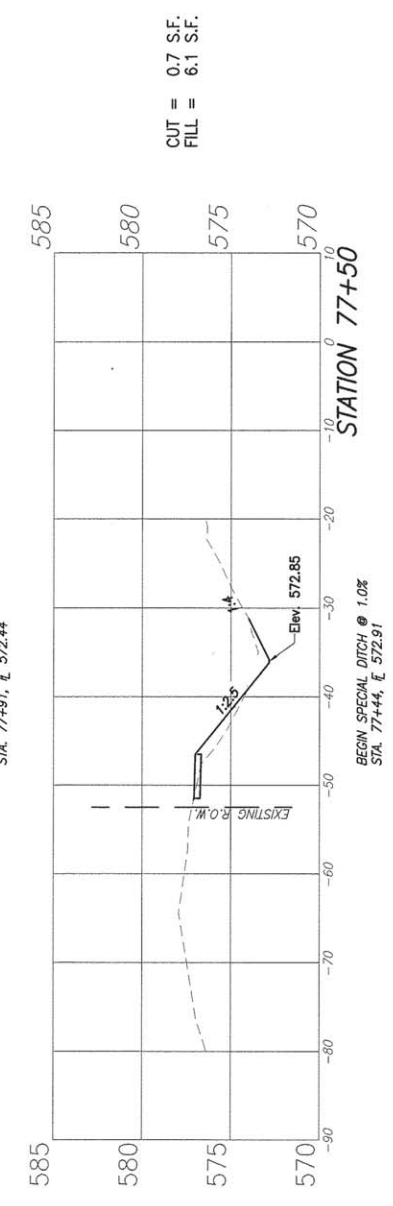
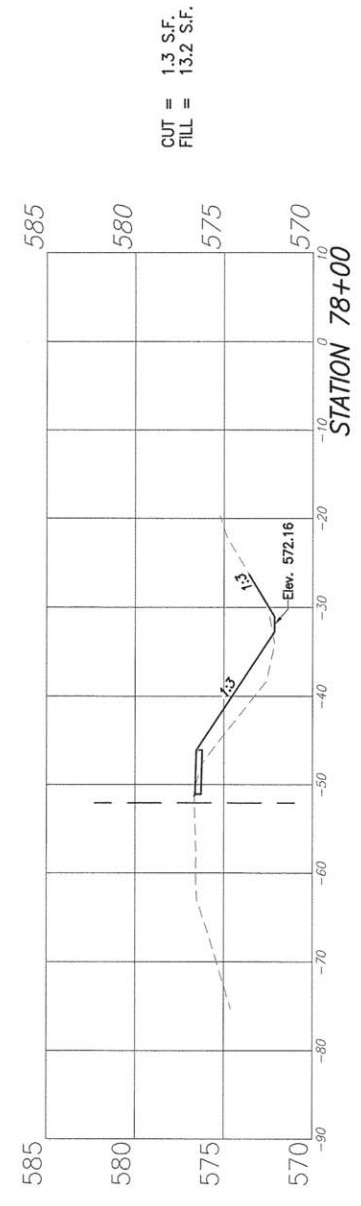
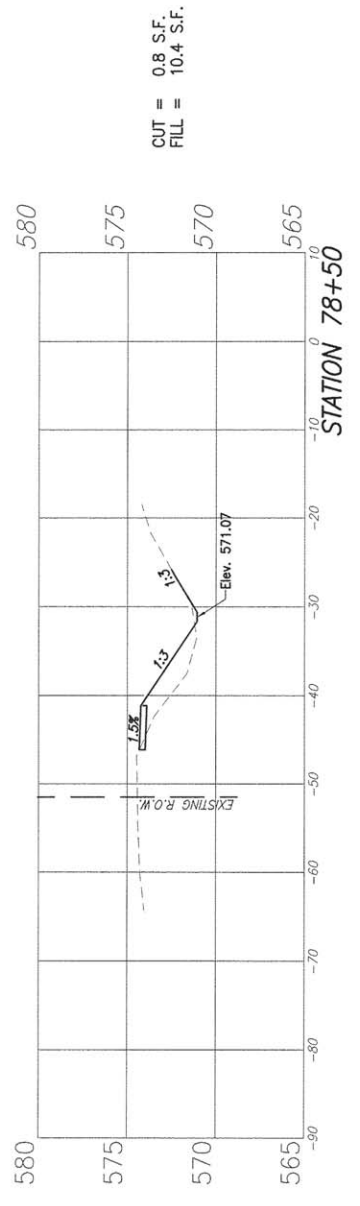
* UTILIZE HIGHWAY STANDARD 701101

** UTILIZE HIGHWAY STANDARDS 701428, 701400, 701406, AND 7014426 FOR SHORT TERM LANE CLOSURES, AS APPLICABLE.

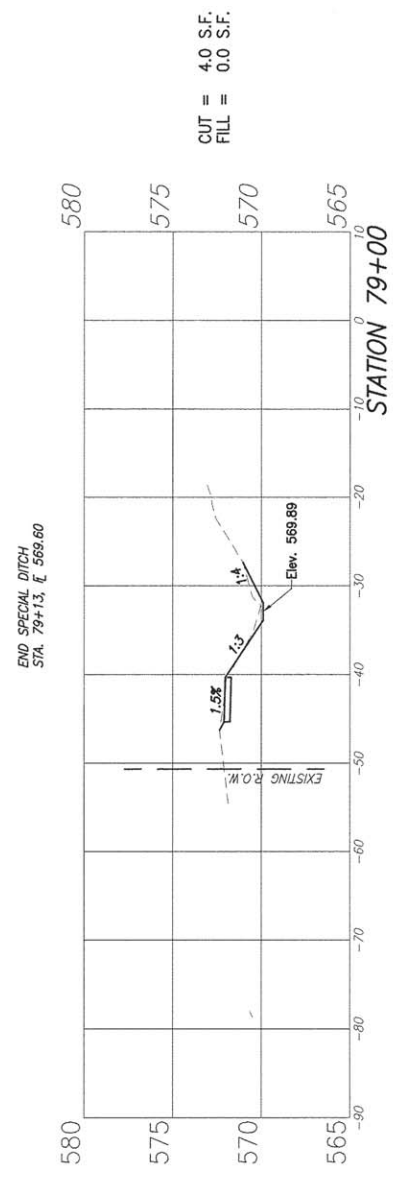
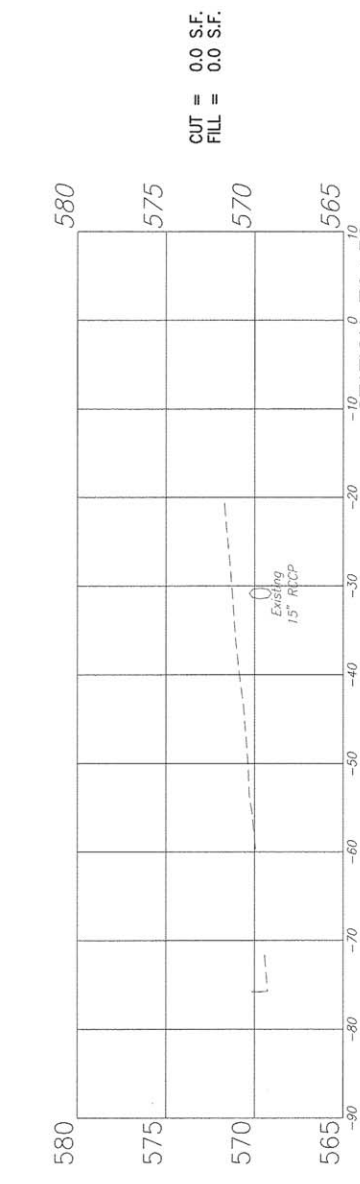
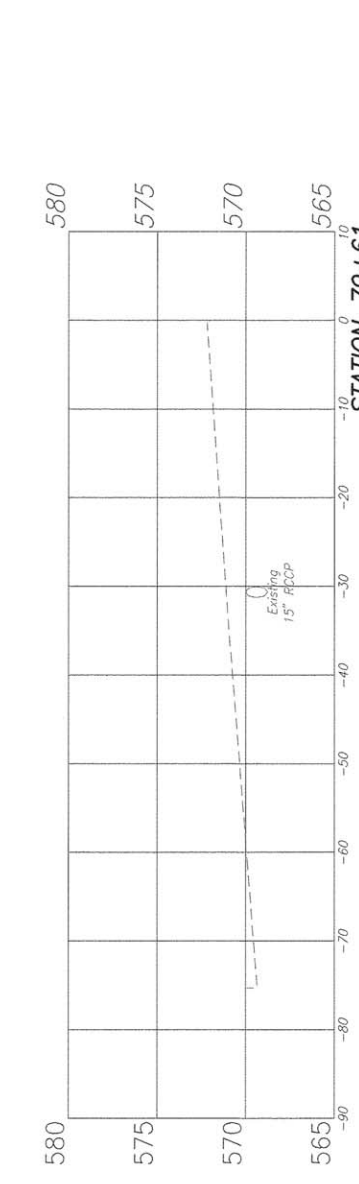
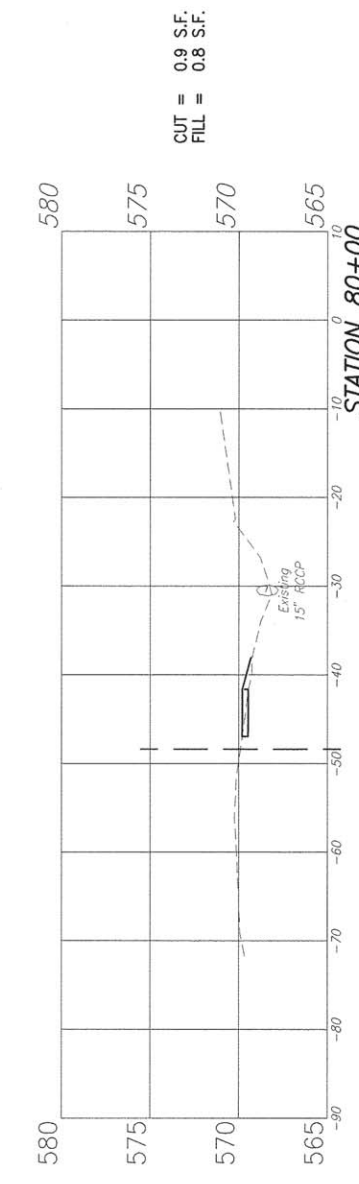
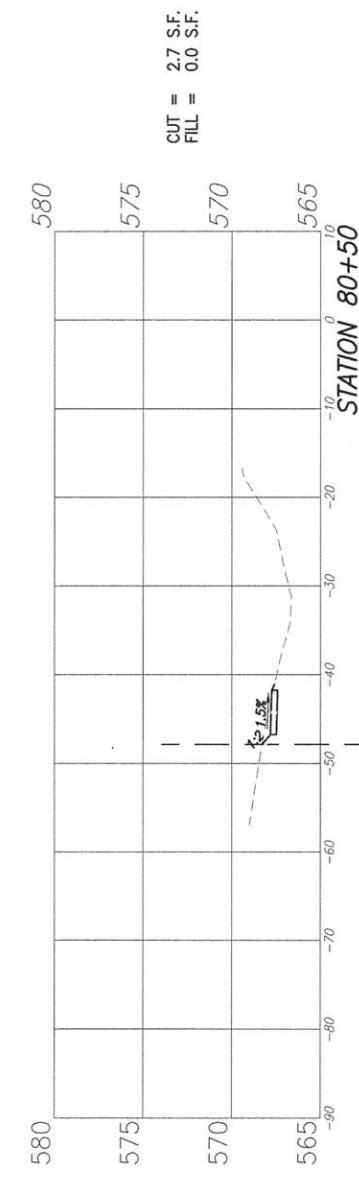
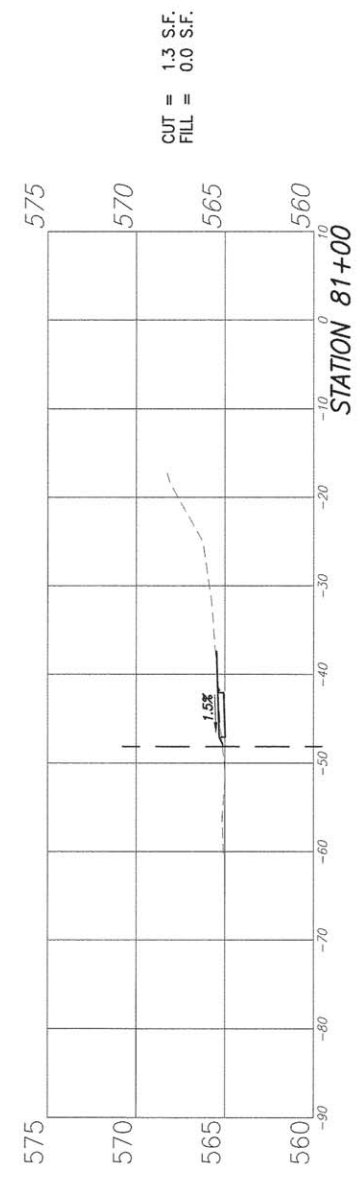
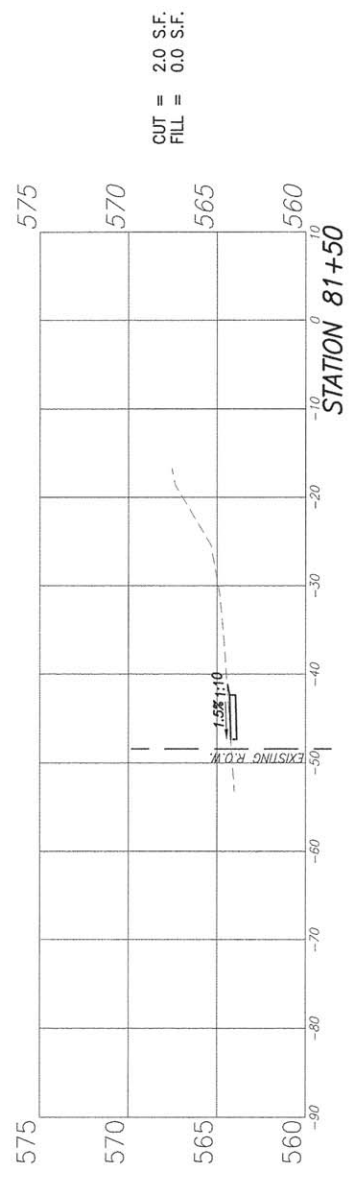
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	29
FEDERAL AID PROJECT			CONTRACT 97632	



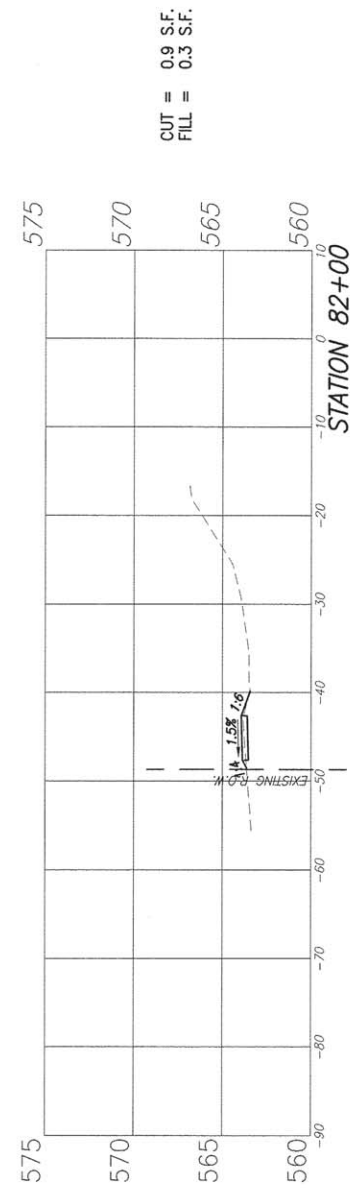
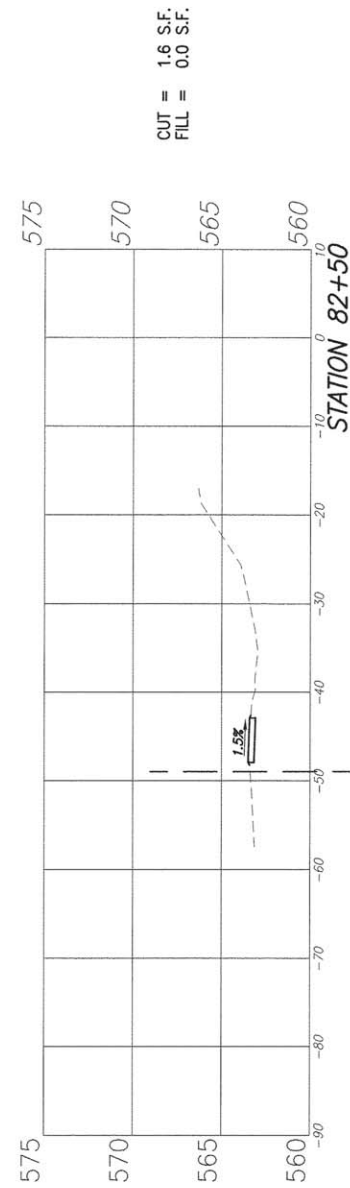
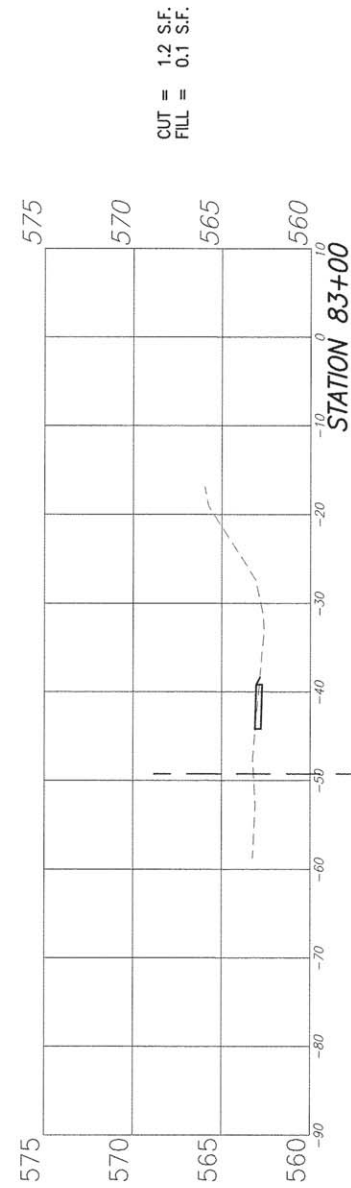
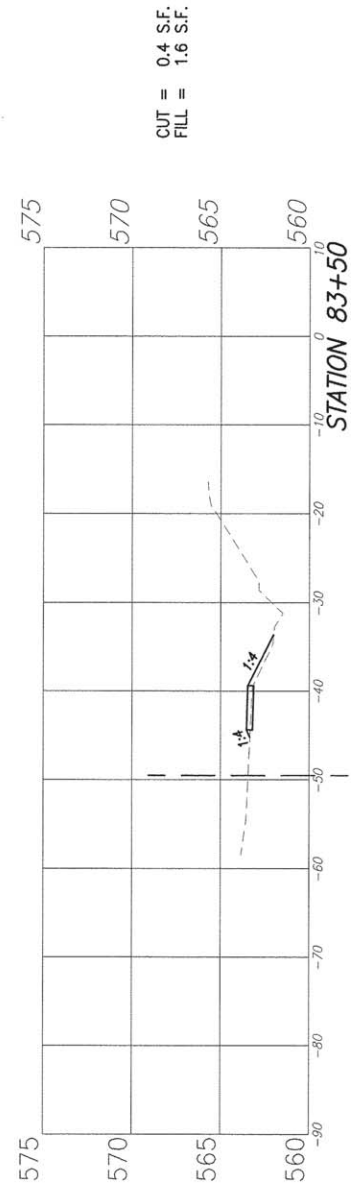
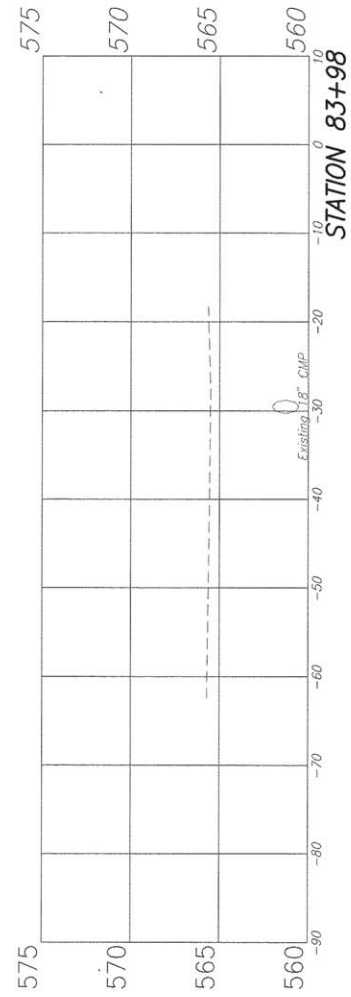
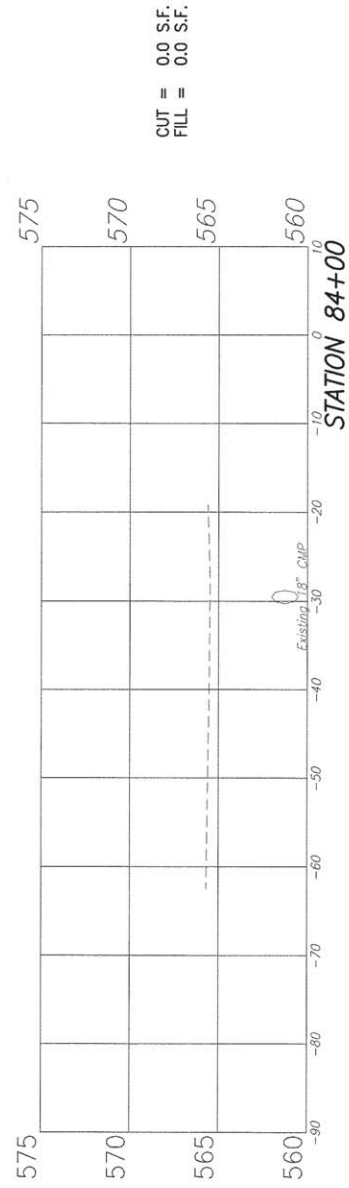
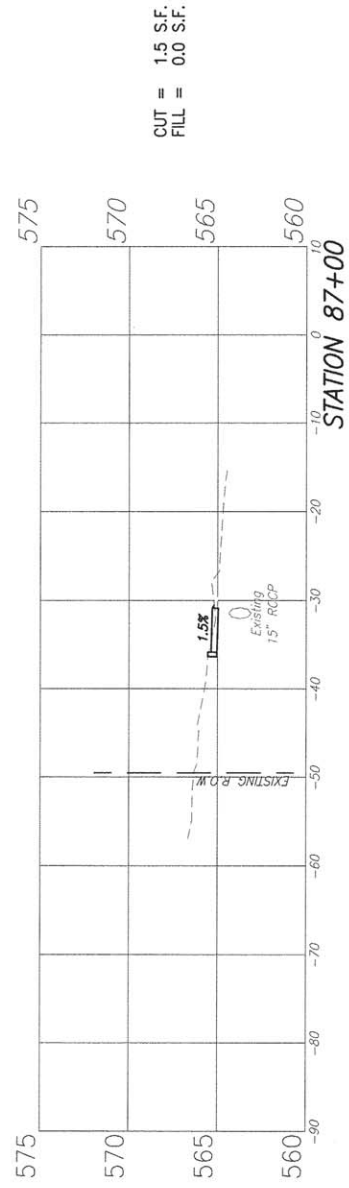
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	30
FEDERAL AID PROJECT		CONTRACT 97632		



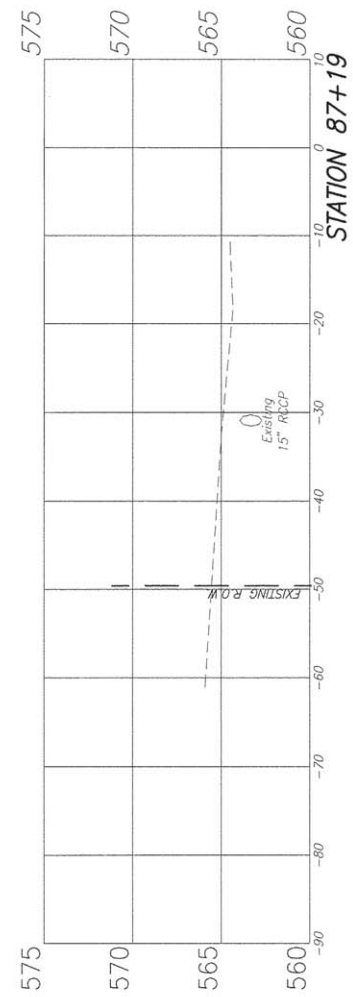
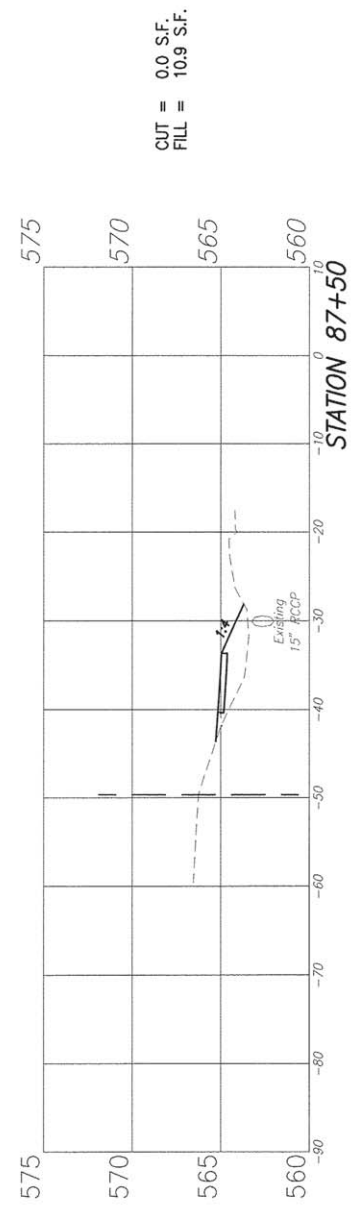
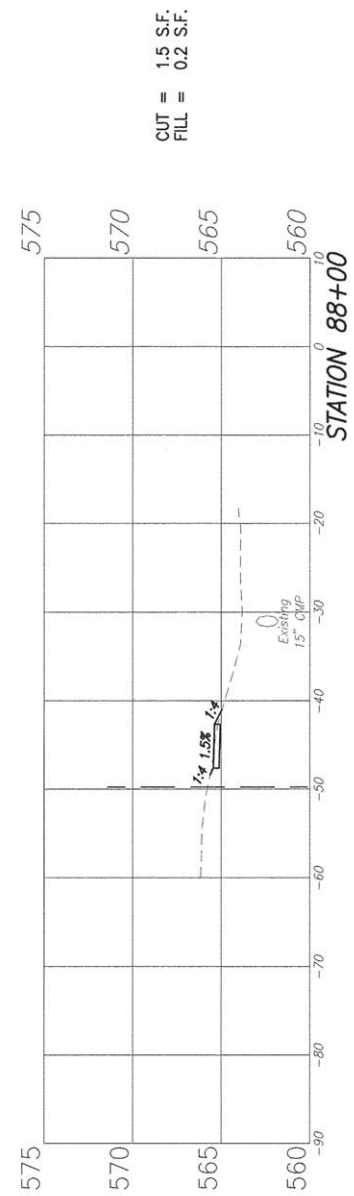
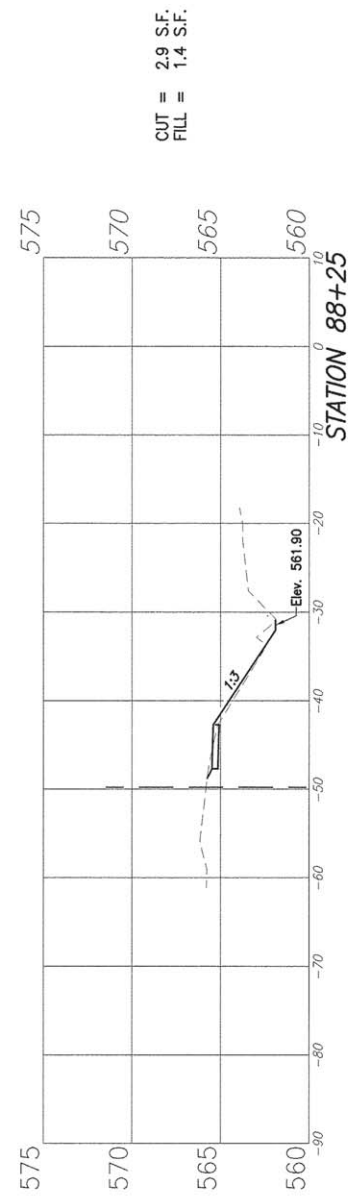
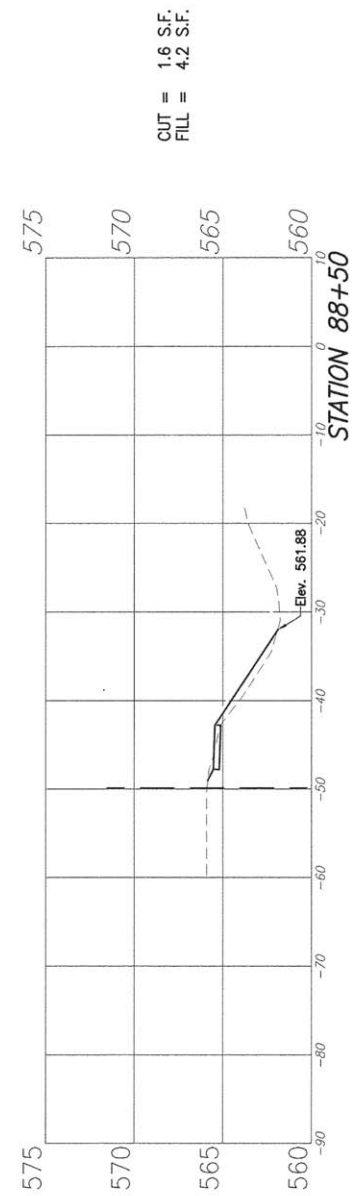
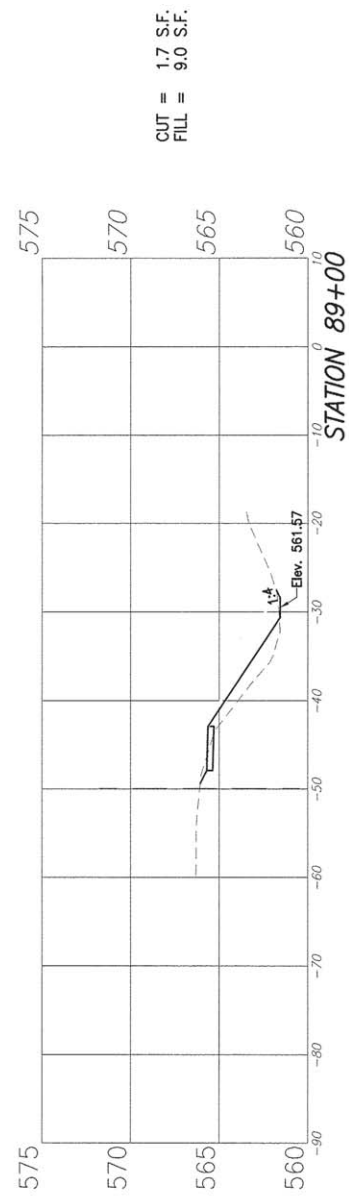
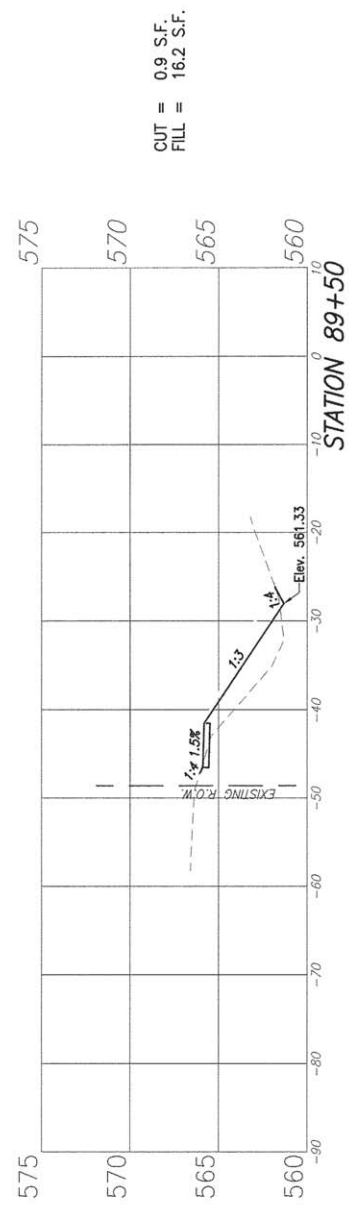
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	31
FEDERAL AID PROJECT		CONTRACT 97632		



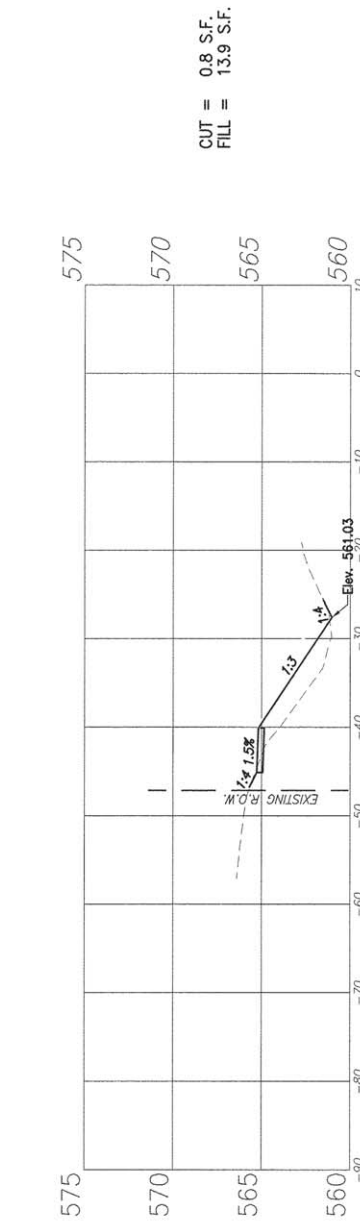
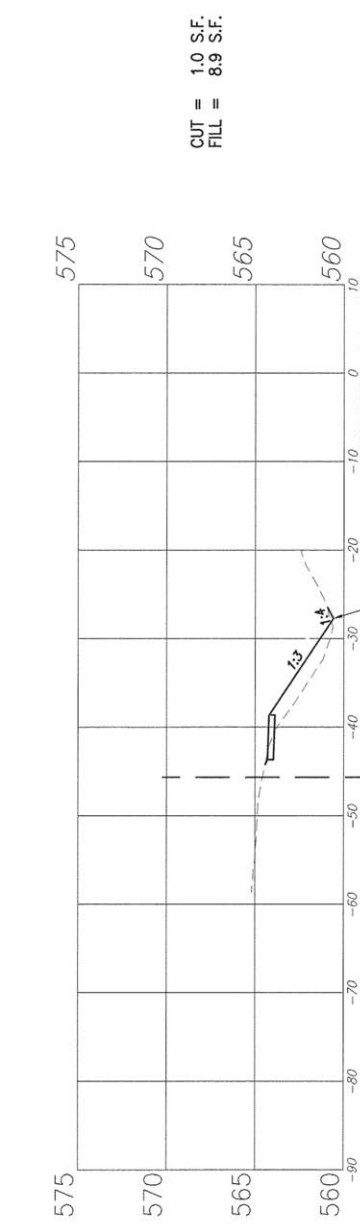
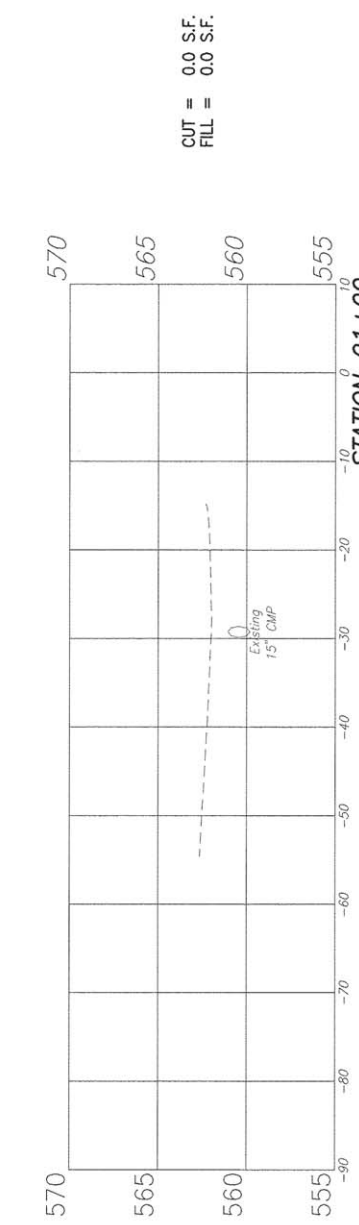
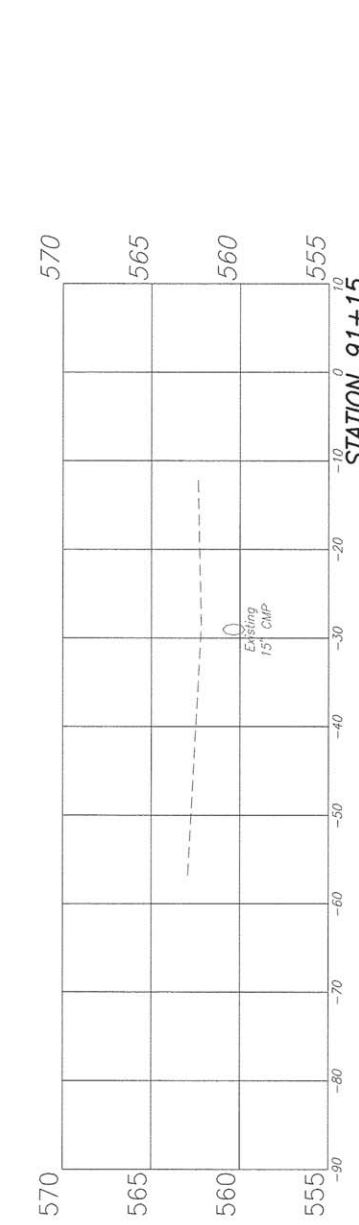
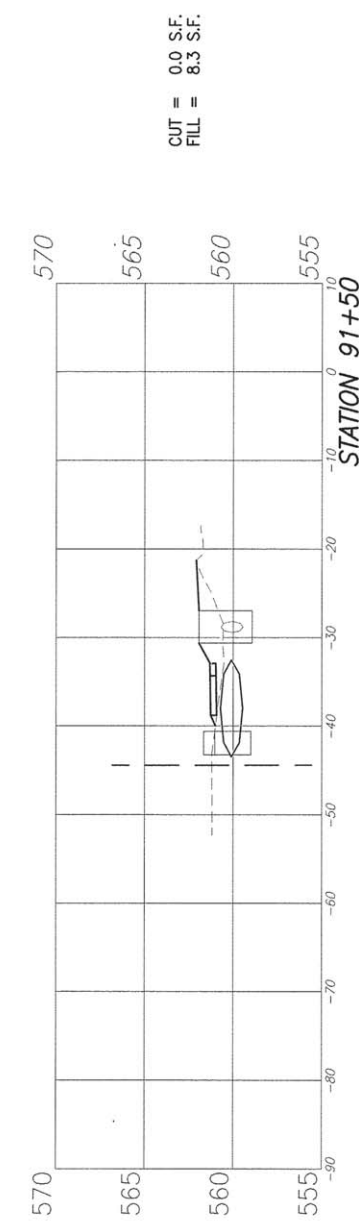
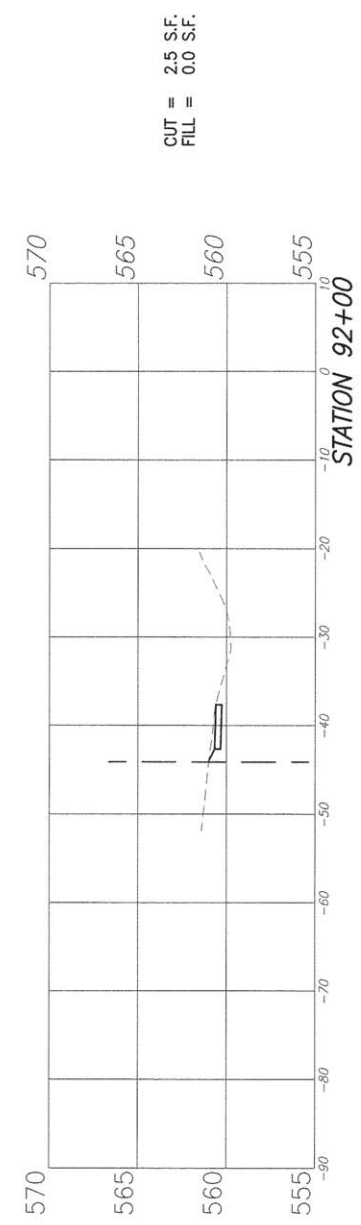
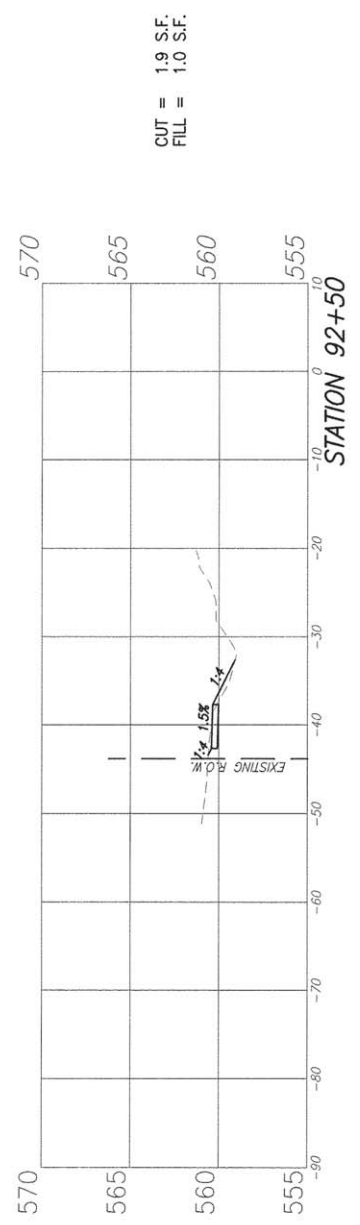
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	32
FEDERAL AID PROJECT		CONTRACT 97632		



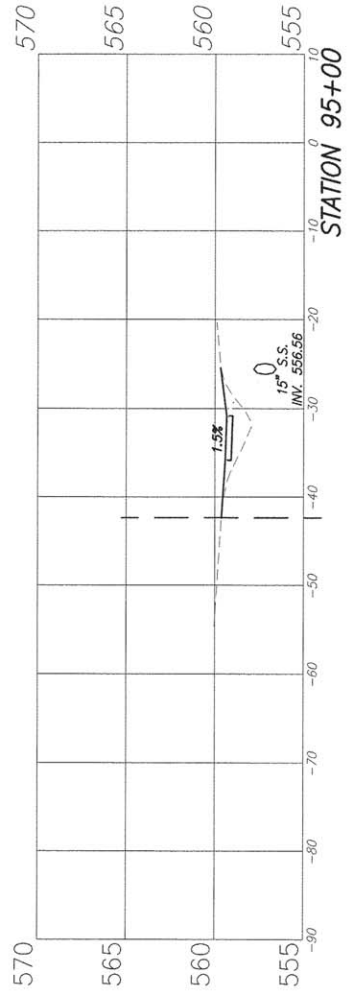
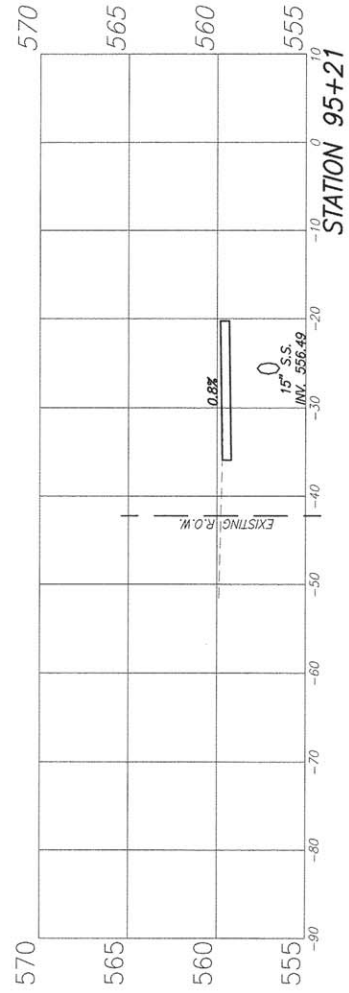
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	33
FEDERAL AID PROJECT			CONTRACT 97632	



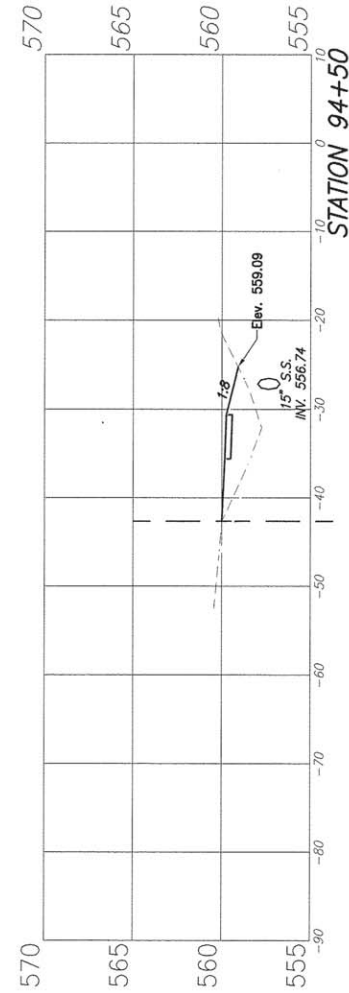
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	34
FEDERAL AID PROJECT			CONTRACT 97632	



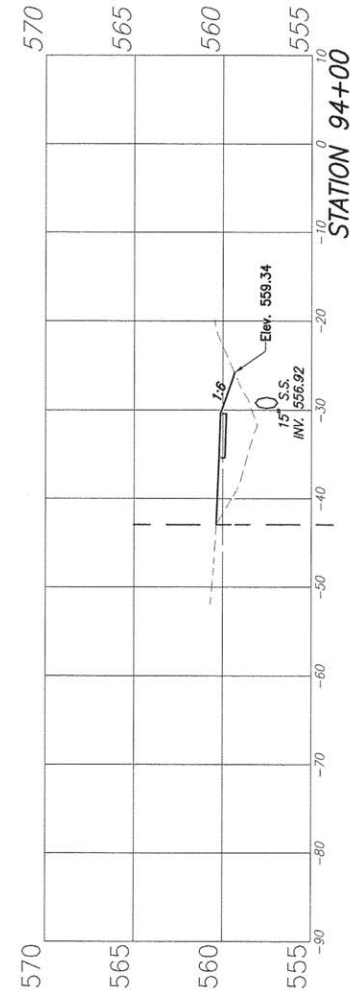
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	35
FEDERAL AID PROJECT		CONTRACT 97632		



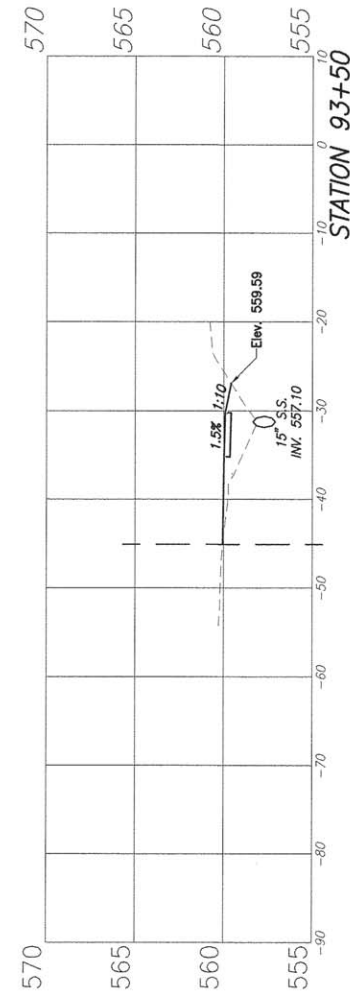
CUT = 0.0 S.F.
FILL = 7.5 S.F.



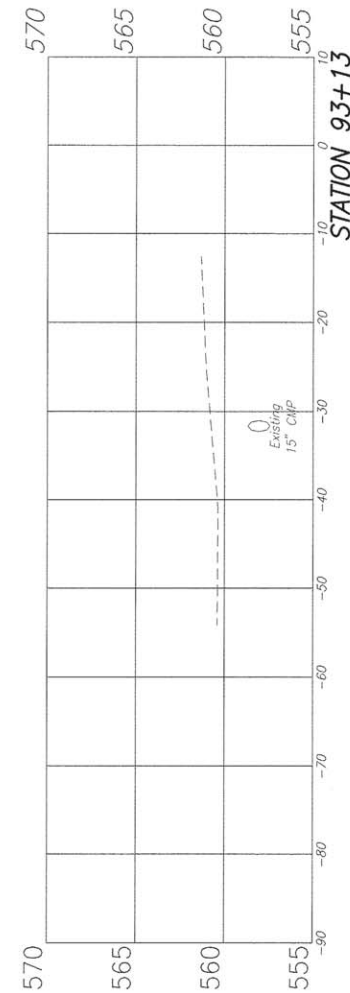
CUT = 0.0 S.F.
FILL = 21.1 S.F.



CUT = 0.0 S.F.
FILL = 23.2 S.F.

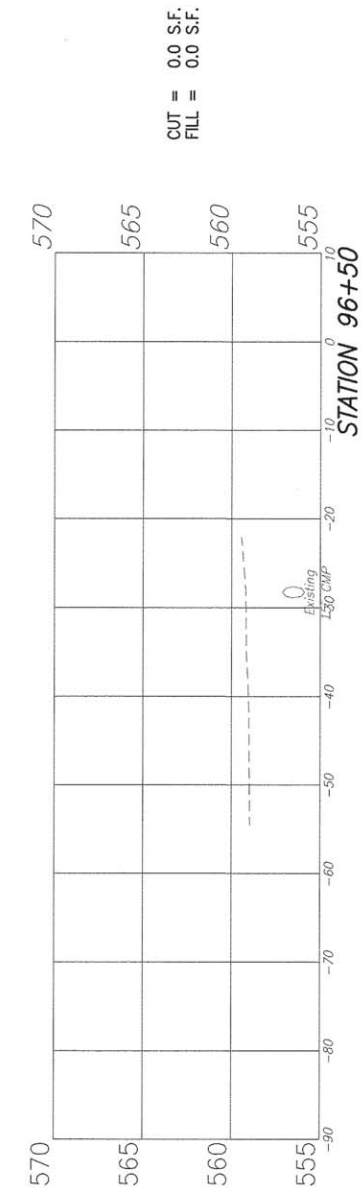
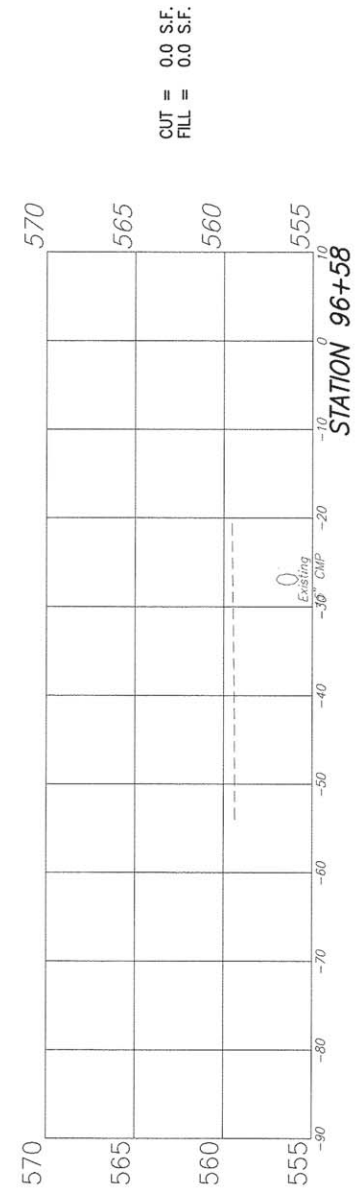


CUT = 0.0 S.F.
FILL = 11.5 S.F.

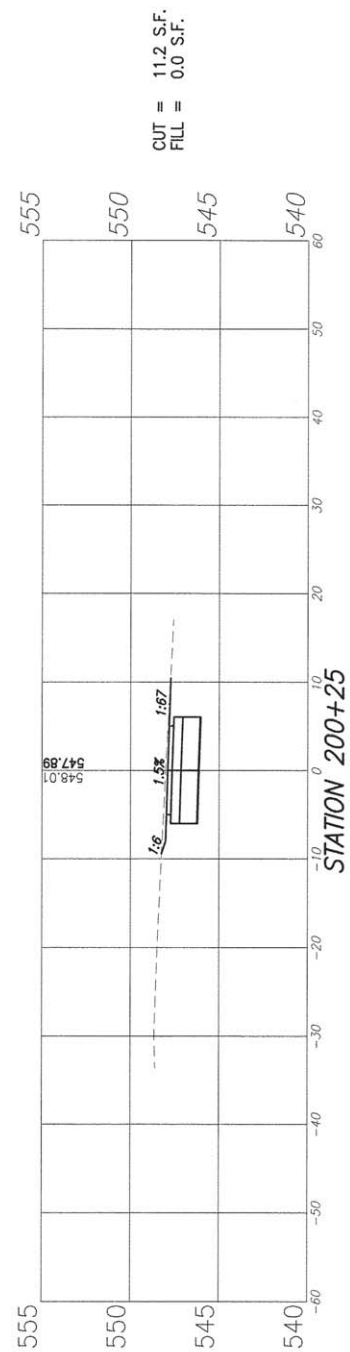
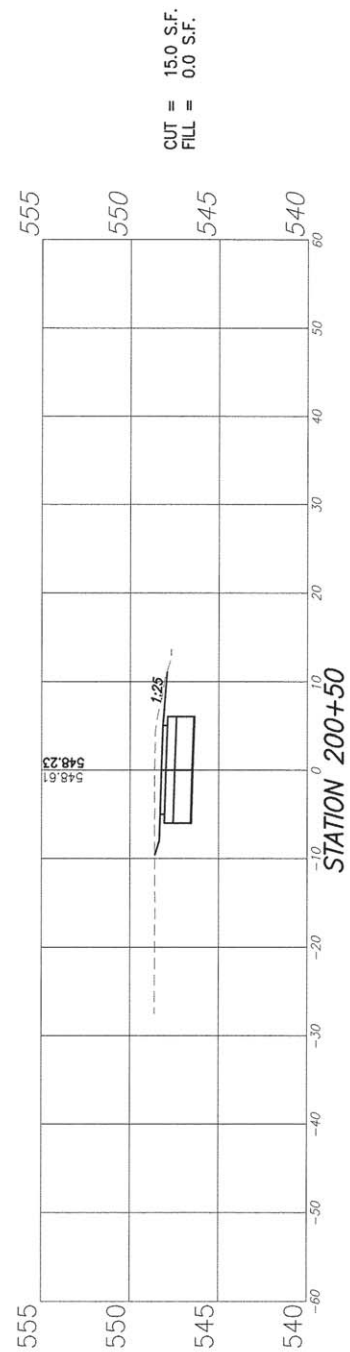
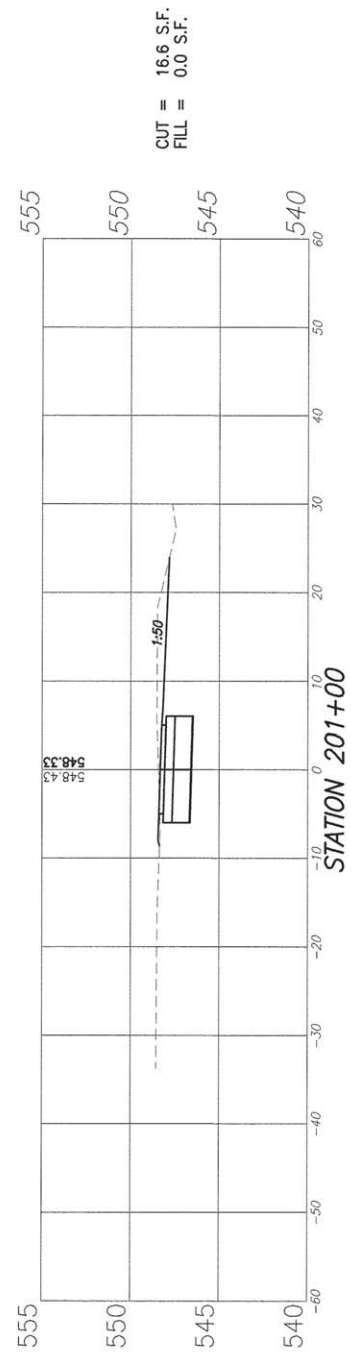
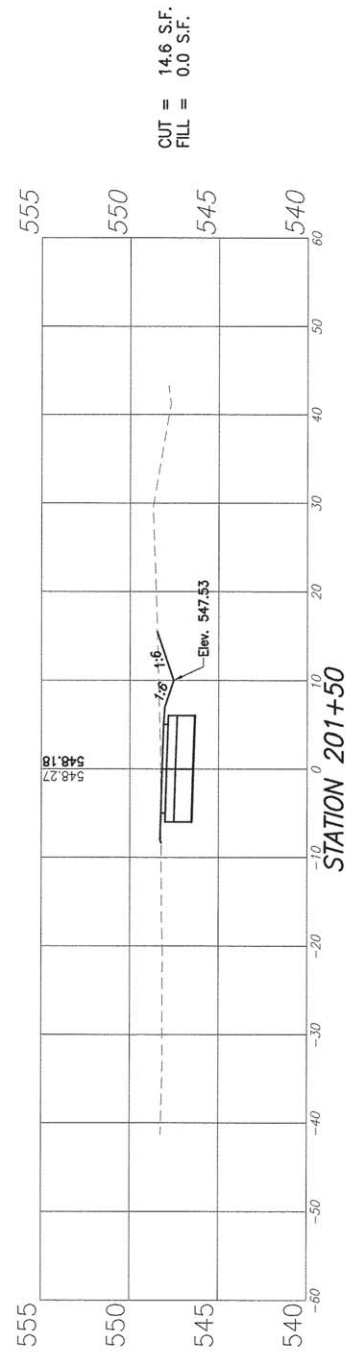
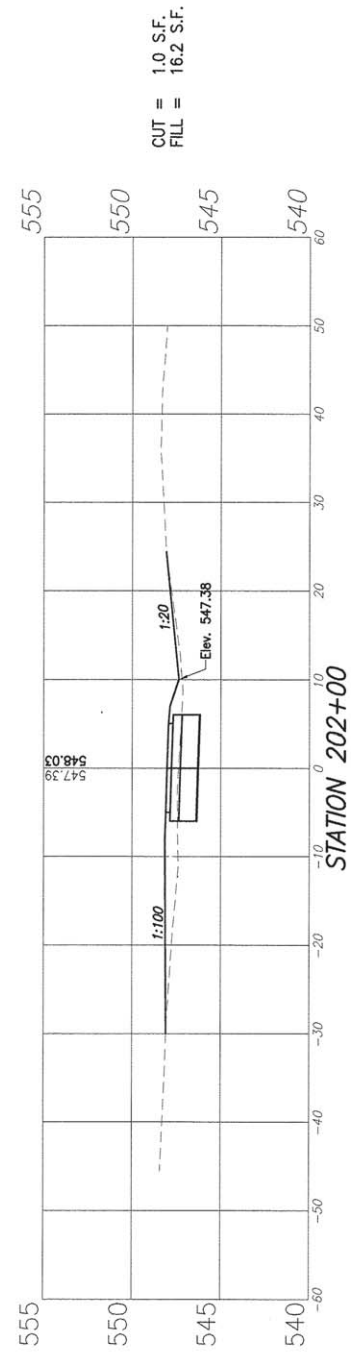
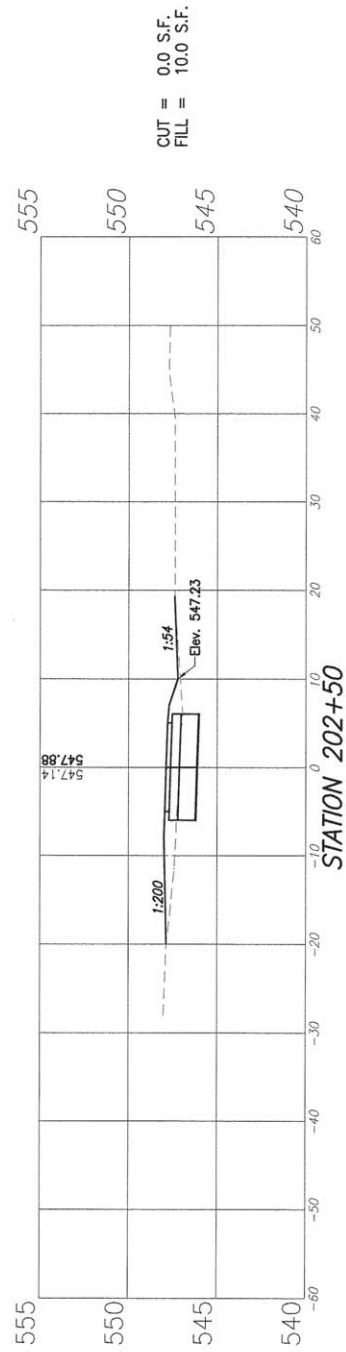
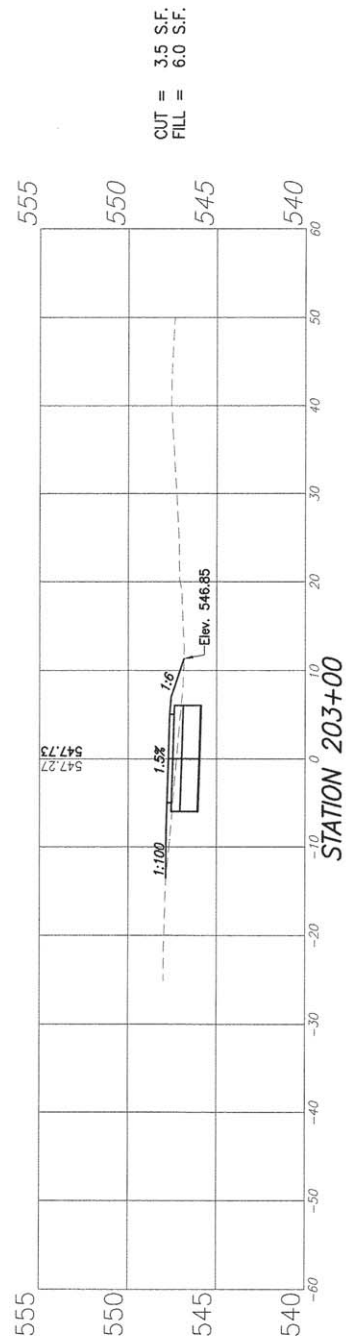


CUT = 0.9 S.F.
FILL = 6.6 S.F.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	36
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	37
FEDERAL AID PROJECT			CONTRACT 97632	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9164 9173	14-00066-00-BT	ST. CLAIR	38	38
FEDERAL AID PROJECT		CONTRACT 97632		

