

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

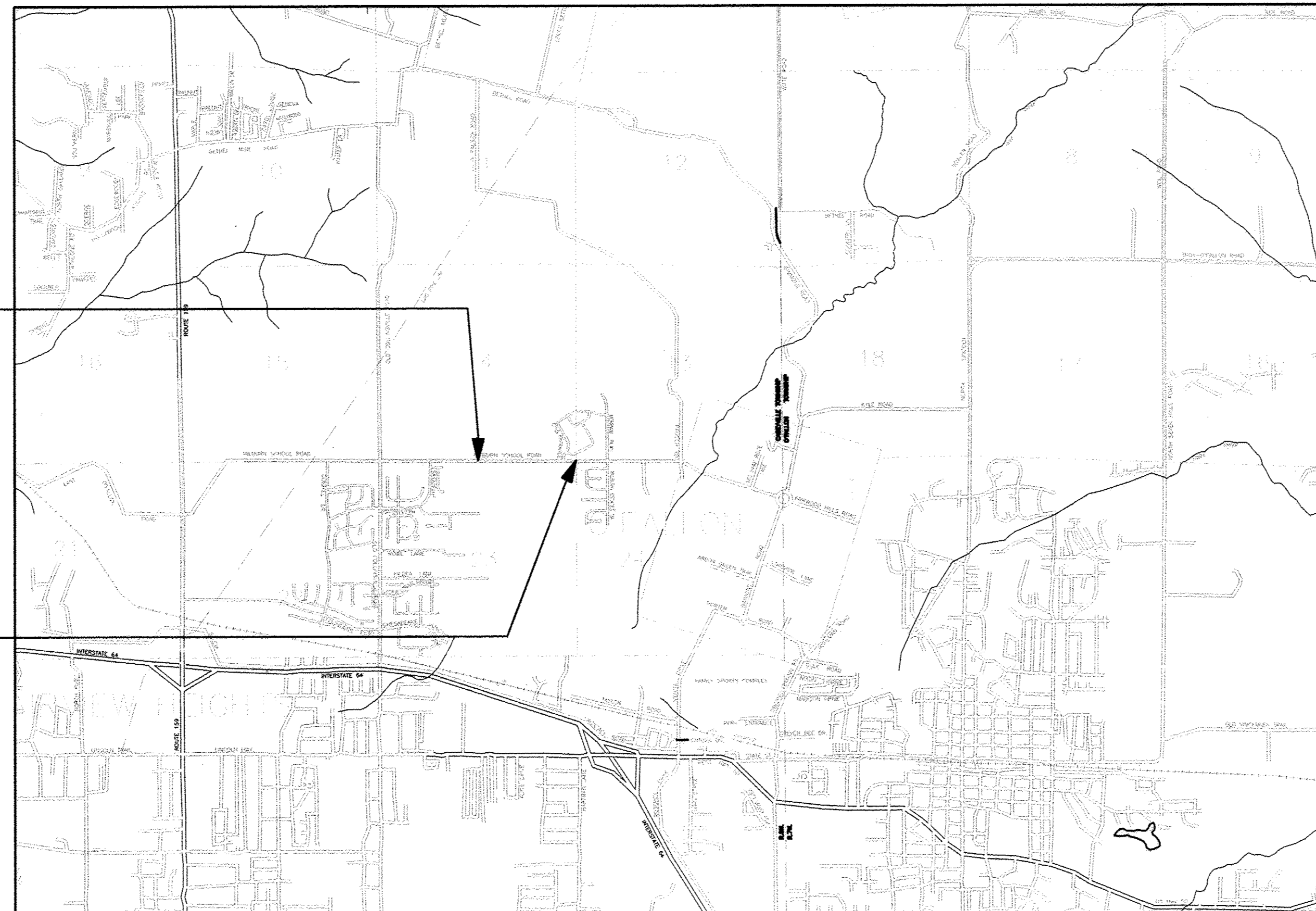
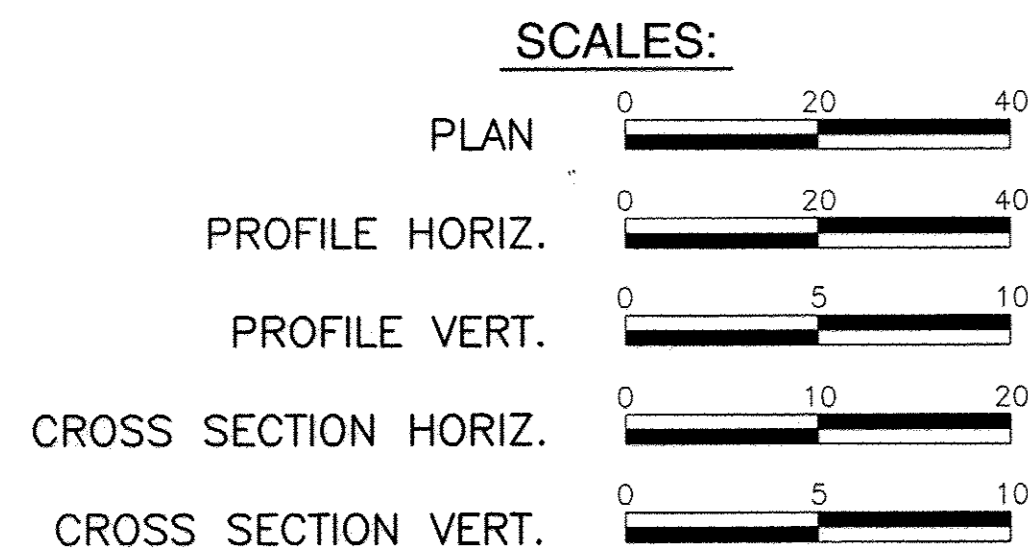
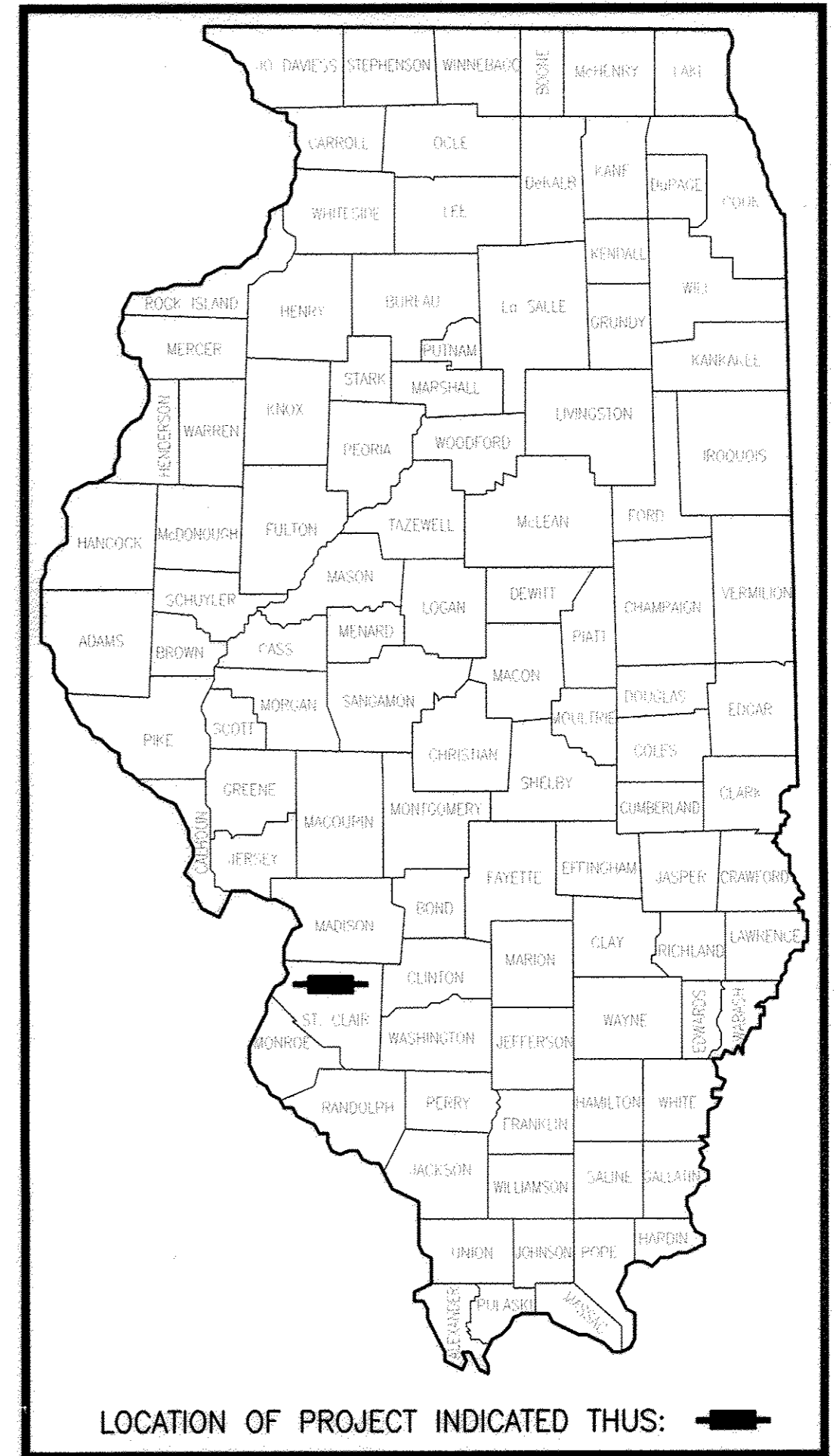
**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**

FAU ROUTE 9148 (MILBURN SCHOOL ROAD)
MILBURN SCHOOL ROAD PHASE 3 IMPROVEMENTS
SECTION 10-00059-02-PV
PROJECT NO. M-5011(345)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-367-11
STU PROGRAM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	1
FEDERAL AID PROJECT			CONTRACT 97634	

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LOCATION MAP
NOT TO SCALE

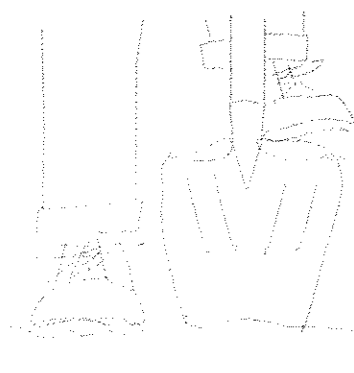
MILBURN SCHOOL ROAD
ROADWAY DESIGNATION: MUNICIPALITY MAJOR COLLECTOR
DESIGN SPEED: 45 M.P.H.

ADT: CURRENT (2016) 5100
20-YEAR (2036) 8200
SU = 2.0%

END SECTION
10-00059-02-PV
STA. 978+75.72

BEGIN SECTION
10-00059-02-PV
STA. 949+74.72

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.

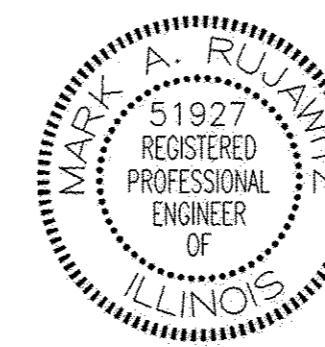
If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123

Underground Cable

MILBURN SCHOOL ROAD (III) STA. 949+74.72 TO 978+75.72

(2901.00 FT. = 0.549 MILES)



Mark A. Rujawitz
Date of Signing: 10/17/2016
Date of License Expiration: 11/30/2017



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

ILLINOIS
DEPARTMENT OF
TRANSPORTATION

APPROVED: *Amy L. Stahan* DATE: 10-21-16
MAYOR, CITY OF O'FALLON

PASSED: *James E. Mallett* DATE: November 10, 2016
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: *Anthony J. Kurwin* DATE: November 10, 2016
REGION FIVE ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY:

GENERAL NOTES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	2
FEDERAL AID PROJECT			CONTRACT 97634	

- 1.) A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT FOR PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS TO ACCOMMODATE SEASONAL RESTRICTIONS. INITIAL PAVEMENT MARKING WILL BE PERFORMED UNDER COMPLETE ROAD CLOSURE.
- 2.) THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- 3.) ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 2 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 4.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5.) AN ESTIMATED 1,750 TONS OF HMA SURFACE WILL BE REMOVED DURING PAVEMENT REMOVAL AND HMA SURFACE REMOVAL FOR THIS PROJECT.
- 6.) PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AND FACE OF CURBS WHEN CONSTRUCTED AFTER NOVEMBER 1 AND PRIOR TO APRIL 15.
- 7.) THE COST OF REMOVING AND/OR RELOCATING ALL EXISTING TRAFFIC SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 8.) AN ESTIMATED QUANTITY OF 200 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND LOCAL TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.
- 9.) FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:
 - PAVING**
 - ALL HOT-MIX ASPHALT BITUMINOUS MATERIALS (PRIME COAT) 0.056 TONS/SQ. YD./INCH
 - 0.05 LBS/SQ FT (HMA, PCC)
 - 0.25 LBS/SQ FT (AGG)
 - 0.025 LBS/SQ FT (FOG COAT-HMA)
 - AGGREGATE BASE COURSE 0.0555 TONS/SQ. YD./INCH
 - SEEDING**
 - NITROGEN FERTILIZER NUTRIENT 90 LBS/ACRE
 - PHOSPHORUS FERTILIZER NUTRIENT 90 LBS/ACRE
 - POTASSIUM FERTILIZER NUTRIENT 90 LBS/ACRE
 - MULCH 2 TONS/ACRE
 - LIME MODIFIED SOILS**
 - SOIL 1.4445 TONS/CU. YD.
 - LIME (4% OF SOIL) 0.01926 TONS/SQ. YD./12 IN.
 - WATER 15 GAL./SQ. YD./12 IN.

- 10.) 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.
- 11.) THE REMOVAL OF ANY CURB/CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB/CURB AND GUTTER AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL RENUMERATION BUT THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- 12.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 13.) TEMPORARY CONSTRUCTION EASEMENTS, WHICH PROVIDE FOR AREAS WHERE WORK SHALL BE DONE, ARE DEPICTED ON THE PLANS AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT WHICH IS NECESSARY TO PERFORM OPERATIONS REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR SHALL NOT USE THE EASEMENT AREAS FOR STORAGE OF MATERIAL OR EQUIPMENT.
- 14.) 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.
- 15.) HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC ENTRANCES AND CURB IN FRONT OF ENTRANCES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PCC DRIVEWAY PAVEMENT OF THICKNESS SPECIFIED AND CONCRETE CURB AND GUTTER OF TYPE SPECIFIED.
- 16.) WHEN THE PLAN OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE CITY OF O'FALLON AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER.
- 17.) A NOMINAL QUANTITY OF 100 CU. YD. HAS BEEN INCLUDED IN THE PLANS FOR REMOVAL OF UNSUITABLE MATERIAL. THE ENGINEER SHALL BE THE SOLE JUDGE FOR DETERMINATION OF SAID AREAS.
- 18.) A QUANTITY OF 25 EACH HAS BEEN INCLUDED IN THE PLANS FOR RAISED REFLECTIVE PAVEMENT MARKER REMOVAL. THIS QUANTITY ACCOUNTS FOR THOSE RRPM'S WITHIN THE AREA OF HMA SURFACE REMOVAL, VARIABLE DEPTH. ALL OTHER RRPM'S WHICH ARE TO BE REMOVED SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT REMOVAL.

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	602601-04	720001-01	876001-04
424001-09	604036-03	720006-04	880006-01
424016-02	606001-06	720011-01	886001-01
542301-03	701006-05	729001-01	886006-01
602301-04	701901-05	780001-05	B.L.R. 21-9
			B.L.R. 22-7

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER	CONTACT NAME
ELECTRIC	AMEREN IP	618-407-7856	SCOTT PATTERSON
GAS	AMEREN IP	618-346-1621	KATE SODOM
WATER	CITY OF O'FALLON	618-624-4500	HEIDE BELL
WATER	VILLAGE OF CASEYVILLE	618-344-1234	BRIAN RADER
TELEPHONE	AT&T	618-402-9819	DEAN LITZENBURG
CABLE	CHARTER COMMUNICATIONS	636-387-6633	LISA WARD
SANITARY SEWER	CASEYVILLE TOWNSHIP	618-632-2414	JEFF BEVIRT
FIBER OPTIC	WINDSTREAM COMM.	217-460-0002	MARK MILLS

COMMITMENTS

NONE AT THIS TIME.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	67
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	150
20200100	EARTH EXCAVATION	CU YD	2,615
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20700220	POROUS GRANULAR EMBANKMENT	CU YD	420
20800150	TRENCH BACKFILL	CU YD	656
25000200	SEEDING, CLASS 2	ACRE	1.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	108
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	108
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	108
25100115	MULCH, METHOD 2	ACRE	1.2
25100630	EROSION CONTROL BLANKET	SQ YD	312
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120
28000400	PERIMETER EROSION BARRIER	FOOT	450
28000500	INLET AND PIPE PROTECTION	EACH	15
28100107	STONE RIPRAP, CLASS A4	SQ YD	48
28200200	FILTER FABRIC	SQ YD	48
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	7,386
30201500	LIME	TON	142
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	3,471
35101400	AGGREGATE BASE COURSE, TYPE B	TON	28
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	5
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,715
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	3,055
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,269
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10
42001300	PROTECTIVE COAT	SQ YD	1,507
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	286
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	5,570
42400800	DETECTABLE WARNINGS	SQ FT	36
44000100	PAVEMENT REMOVAL	SQ YD	7,922
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	233
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	281
44000600	SIDEWALK REMOVAL	SQ FT	84
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	493
50200100	STRUCTURE EXCAVATION	CU YD	445
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54010605	PRECAST CONCRETE BOX CULVERTS 6' X 5'	FOOT	66
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2

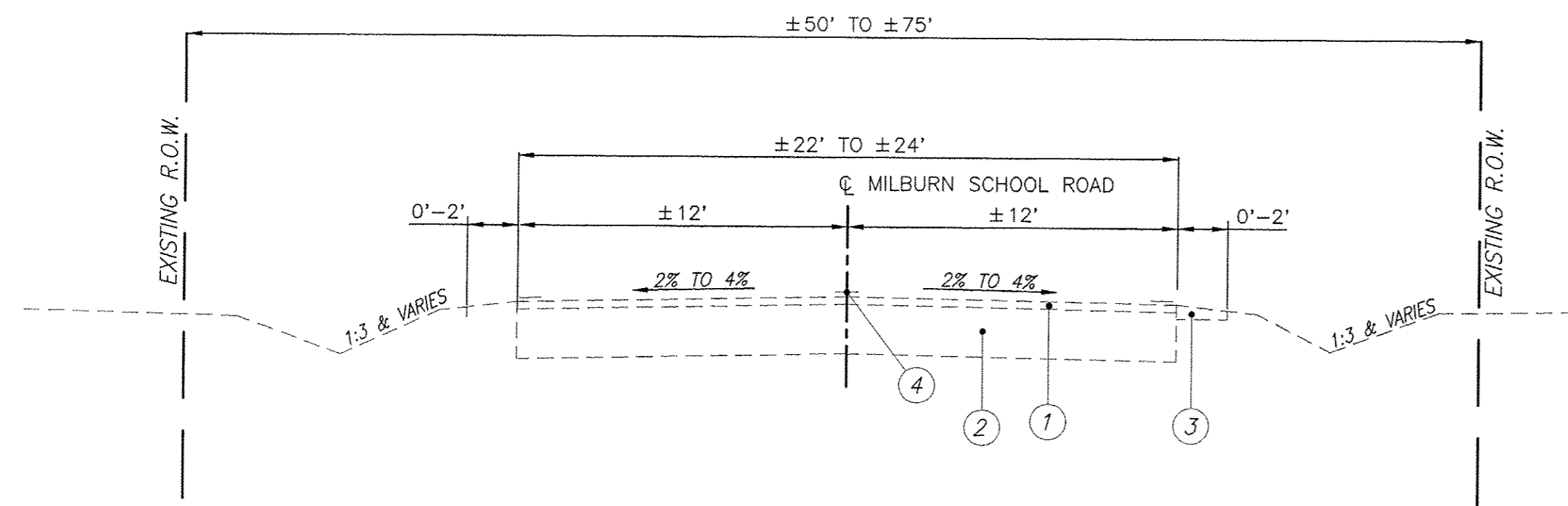
SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	866
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	902
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	503
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	72
550A2410	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 42"	FOOT	54
550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 24"	FOOT	77
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
60500060	REMOVING INLETS	EACH	3
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	5,422
67100100	MOBILIZATION	L SUM	1
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	172
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8,369
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	663
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	55
72000100	SIGN PANEL-TYPE 1	SQ FT	17
72900200	METAL POST-TYPE B	FOOT	42
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	172
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,369
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	663
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	55
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25
*81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	5
*87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	377
*87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	391
*88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
*88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
*88600600	DETECTOR LOOP REPLACEMENT	FOOT	925
*88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
*89502200	MODIFY EXISTING CONTROLLER	EACH	1
*89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	2,711
*89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	75
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,234
X6024242	INLETS, SPECIAL, NO. 1	EACH	28
X6024244	INLETS, SPECIAL, NO. 2	EACH	2
X6024246	INLETS, SPECIAL, NO. 3	EACH	4
X6026200	INLETS TO BE ADJUSTED (SPECIAL)	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*X8140115	HANDHOLE TO BE ADJUSTED	EACH	2
Z0076600	TRAINEES	HR	1,000
Z0076604	TRAINEES TPC	HR	1,000

* SPECIALTY ITEM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	3
FEDERAL AID PROJECT		CONTRACT 97634		

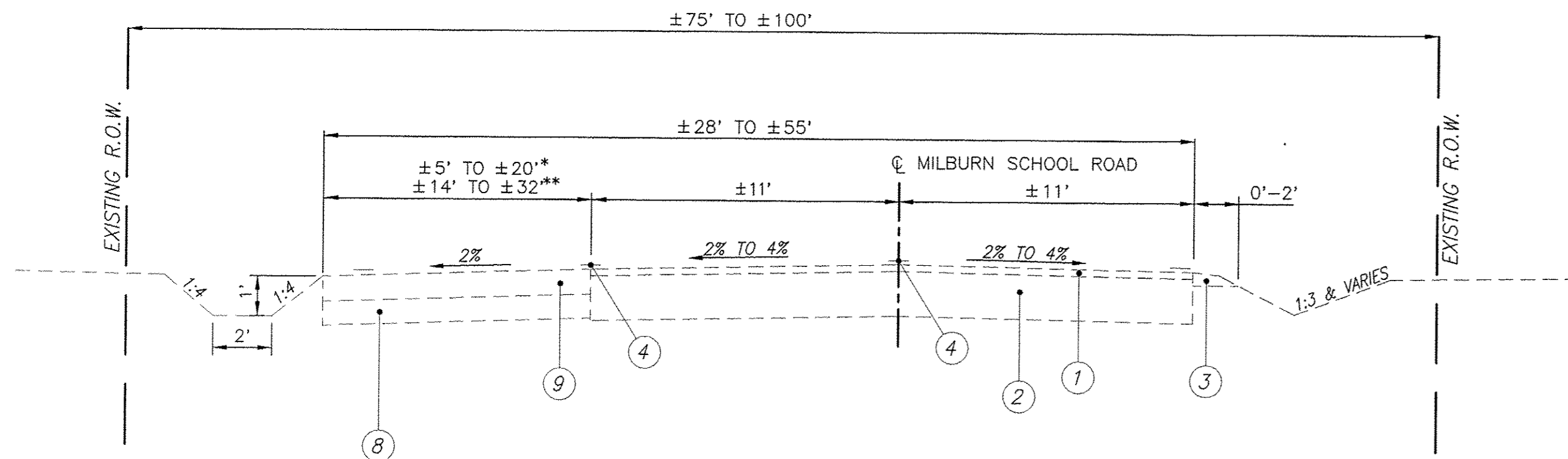
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	4
FEDERAL AID PROJECT			CONTRACT 97634	



EXISTING TYPICAL SECTION

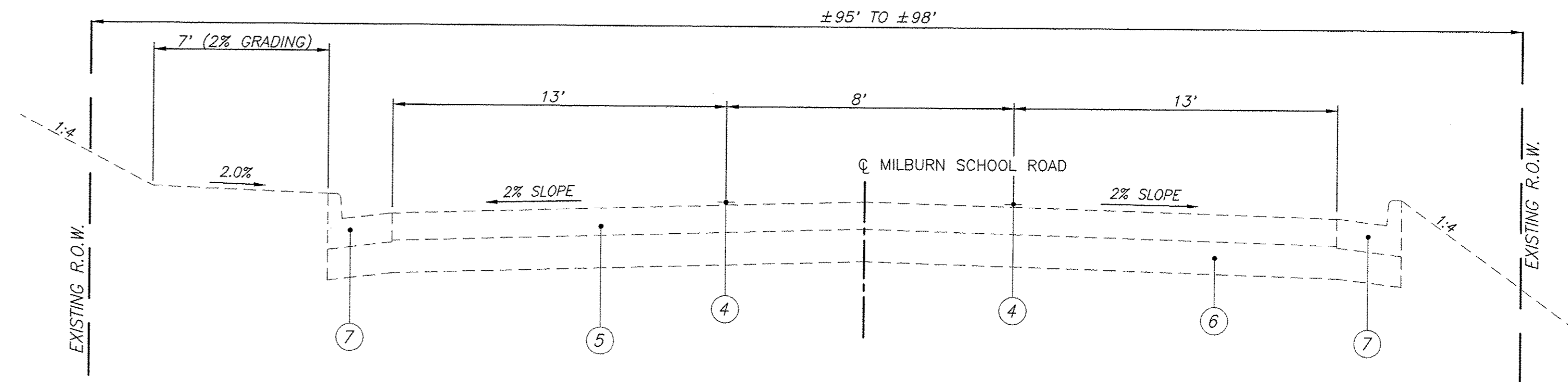
N.T.S.
MILBURN SCHOOL ROAD
STA. 949+74.72 TO STA. 965+58.62

- LEGEND**
- ① EXISTING HOT-MIX ASPHALT RESURFACING, ±3"
 - ② EXISTING OIL & CHIP PAVEMENT, 12"+
 - ③ EXISTING AGGREGATE WEDGE
 - ④ EXISTING PAVEMENT MARKINGS
 - ⑤ EXISTING HOT-MIX ASPHALT PAVEMENT, 8"
 - ⑥ EXISTING LIME MODIFIED SOIL
 - ⑦ EXISTING CONCRETE CURB & GUTTER, TYPE B-6.24
 - ⑧ EXISTING AGGREGATE BASE, 8"
 - ⑨ EXISTING HOT-MIX ASPHALT, 9"
 - ⑩ EXISTING CURB & GUTTER, TYPE B-6.18
 - ⑪ EXISTING CORRUGATED PCC MEDIAN
 - ⑫ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
 - ⑬ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"
 - ⑭ LIME MODIFIED SOIL, 12"
 - ⑭A SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
 - ⑮ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
 - ⑯ P.C.C. SIDEWALK, 4"
 - ⑰ THERMOPLASTIC PAVEMENT MARKING
 - ⑱ BITUMINOUS MATERIALS (PRIME COAT)
 - ⑲ HMA SURFACE REMOVE, VARIABLE DEPTH



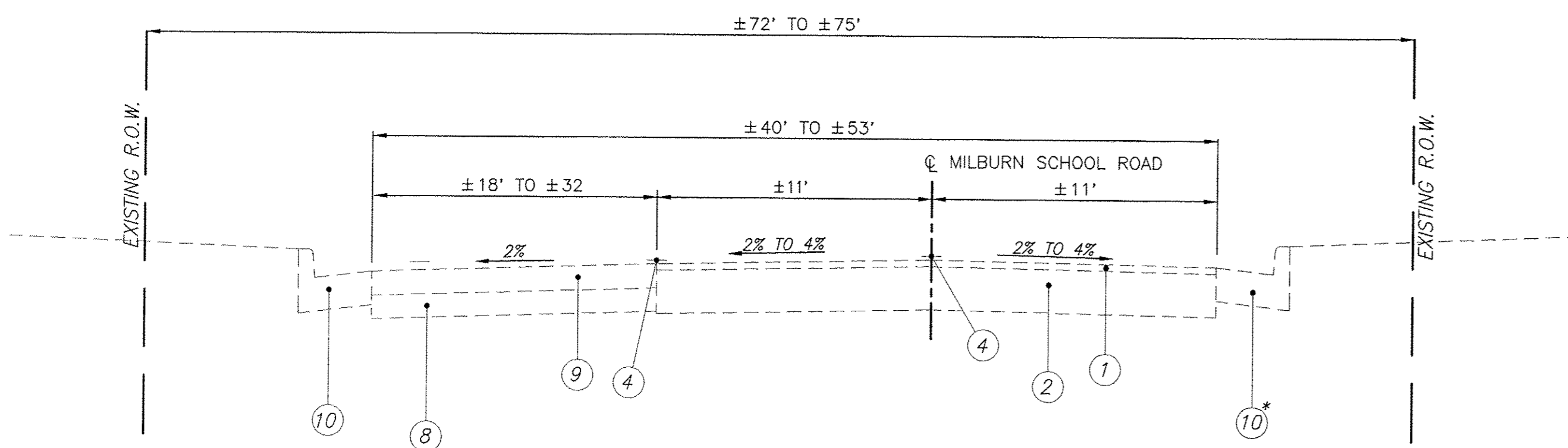
EXISTING TYPICAL SECTION

N.T.S.
MILBURN SCHOOL ROAD
* STA. 965+58.62 TO STA. 970+28.55
AND
** STA. 974+08.76 TO STA. 978+75.72



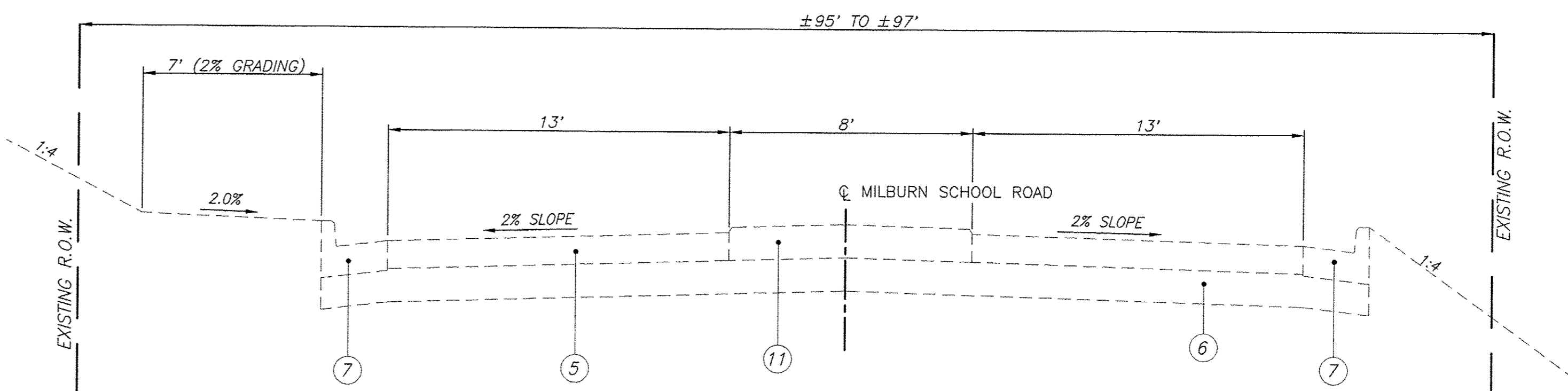
EXISTING TYPICAL SECTION

N.T.S.
MILBURN SCHOOL ROAD
STA. 978+75.72 TO STA. 981+02.74



EXISTING TYPICAL SECTION

N.T.S.
MILBURN SCHOOL ROAD
STA. 970+28.55 TO STA. 974+08.76
* CURB & GUTTER, RIGHT - STA. 970+62.21 TO STA. 973+35.66



EXISTING TYPICAL SECTION

N.T.S.
MILBURN SCHOOL ROAD
STA. 981+02.74 TO STA. 982+70.78

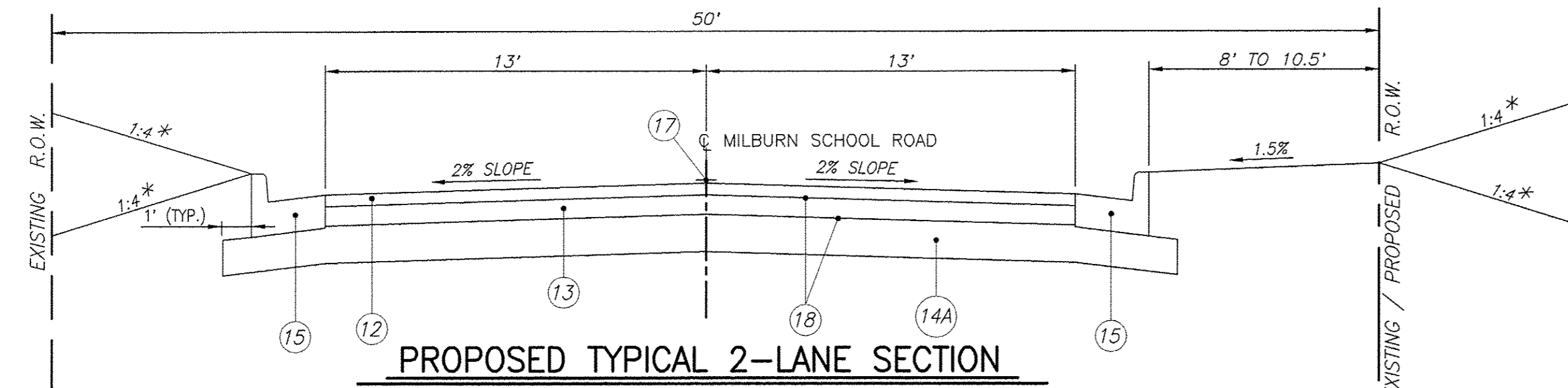
LEGEND

- ① EXISTING HOT-MIX ASPHALT RESURFACING, ±3"
- ② EXISTING OIL & CHIP PAVEMENT, 12"+
- ③ EXISTING AGGREGATE WEDGE
- ④ EXISTING PAVEMENT MARKINGS
- ⑤ EXISTING HOT-MIX ASPHALT PAVEMENT, 8"
- ⑥ EXISTING LIME MODIFIED SOIL
- ⑦ EXISTING CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑧ EXISTING AGGREGATE BASE, 8"
- ⑨ EXISTING HOT-MIX ASPHALT, 9"
- ⑩ EXISTING CURB & GUTTER, TYPE B-6.18
- ⑪ EXISTING CORRUGATED PCC MEDIAN
- ⑫ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- ⑬ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"
- ⑭ LIME MODIFIED SOIL, 12"
- ⑭④ SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ⑮ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑯ P.C.C. SIDEWALK, 4"
- ⑰ THERMOPLASTIC PAVEMENT MARKING
- ⑱ BITUMINOUS MATERIALS (PRIME COAT)
- ⑲ HMA SURFACE REMOVE, VARIABLE DEPTH

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2026
 PV= 6,517 SU= 100 MU= 33
 ROAD/STREET CLASSIFICATION: URBAN COLLECTOR CLASS ROAD: II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P= 50 S= 50 M= 50
 TRAFFIC FACTOR: Actual TF= 0.25 Minimum TF= N/A
 PG GRADE: Binder= 64-22 Surface= 64-22
 THICKNESS - 6 3/4" (Use 8" to match adjacent section)
 SUBGRADE SUPPORT RATING: POOR

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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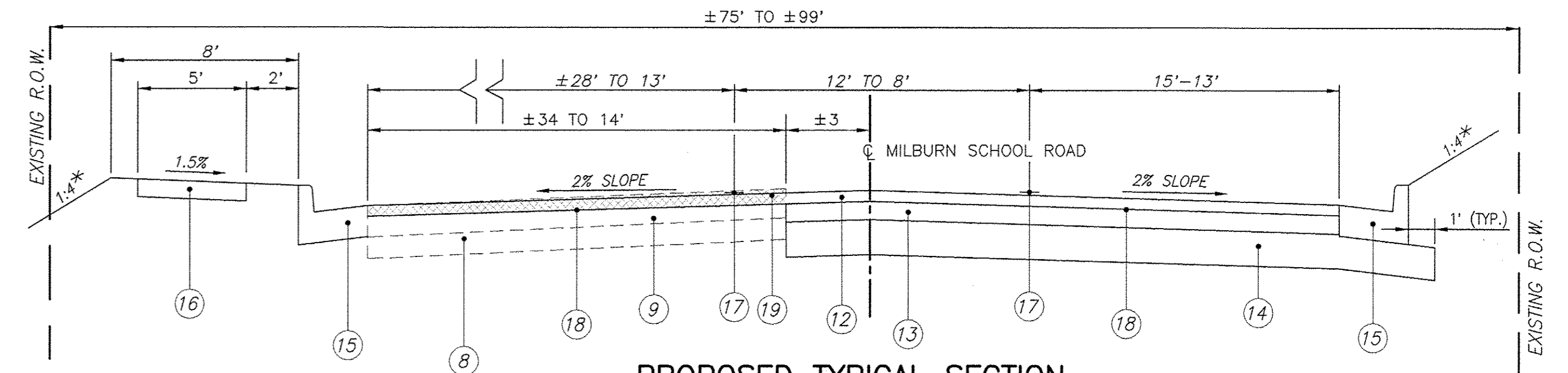
PROPOSED TYPICAL 2-LANE SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 949+74.72 TO STA. 959+72.54

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

NOTE: AN APPLICATION OF BITUMINOUS MATERIALS (PRIME COAT) SHALL BE APPLIED BETWEEN LIFTS OF HMA BINDER COURSE NOT PLACED IN THE SAME DAY

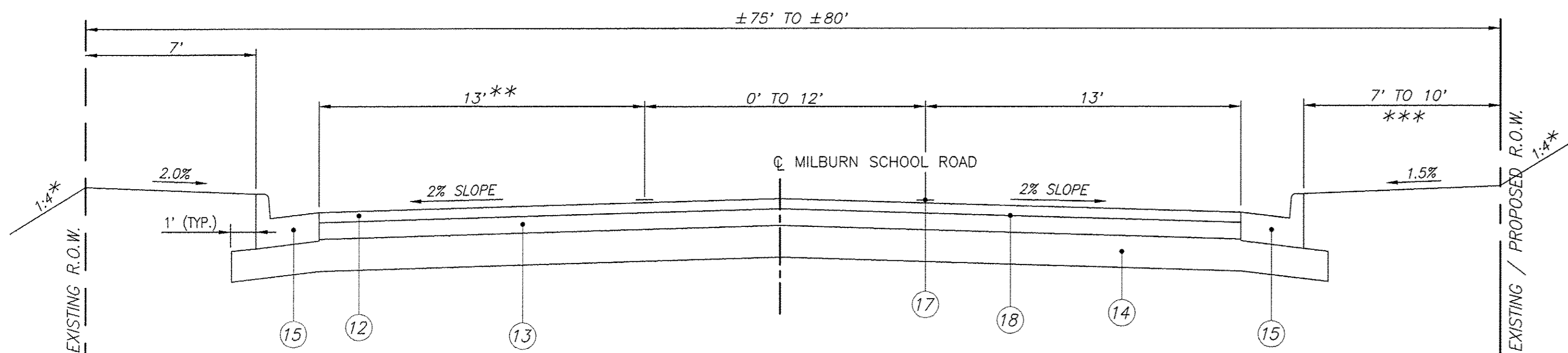


PROPOSED TYPICAL SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 974+08.76 TO STA. 978+75.72

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES



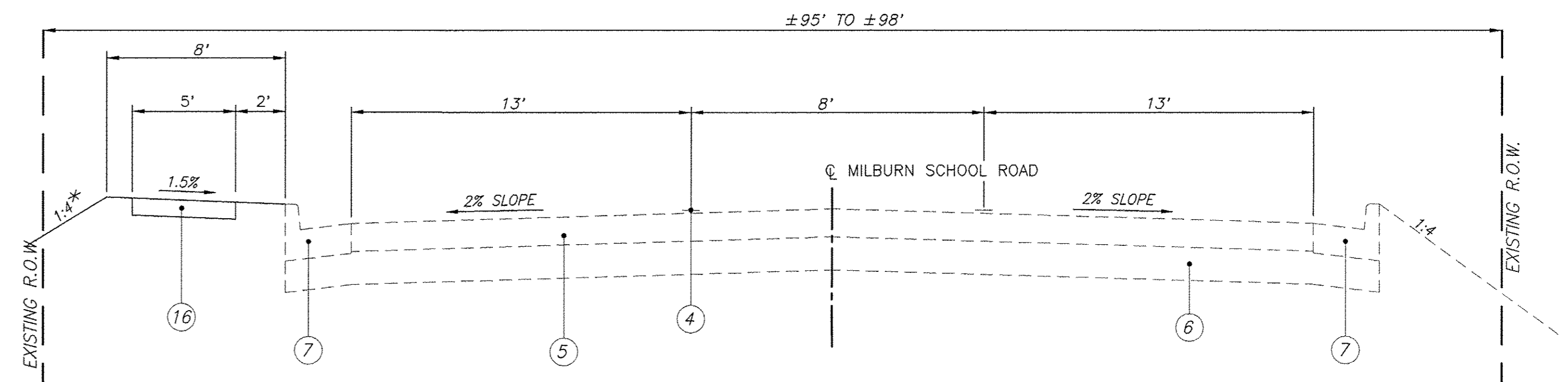
PROPOSED TYPICAL 3-LANE SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 959+72.54 TO STA. 970+28.55

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES
 ** - STA. 969+88.55 TO STA. 970+28.55 VARIES 13' TO ±15'
 *** - GRADING RIGHT - STA. 959+72.54 TO STA. 964+14.00
 STA. 964+14.00 TO STA. 970+28.55 - USE 1:4 OR CROSS SECTION SLOPES

NOTE:
 TRANSITION FROM 0' TO 12' FOR BI-DIRECTIONAL LANE OCCURS
 STA. 959+72.54 TO STA. 963+92.58

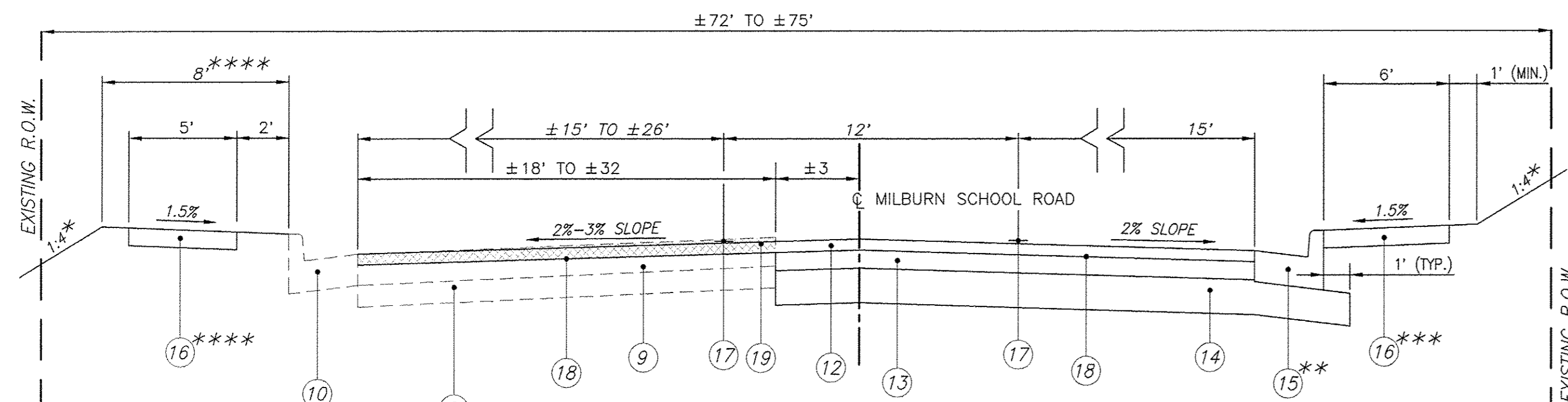


PROPOSED TYPICAL SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 978+75.72 TO STA. 981+02.74

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

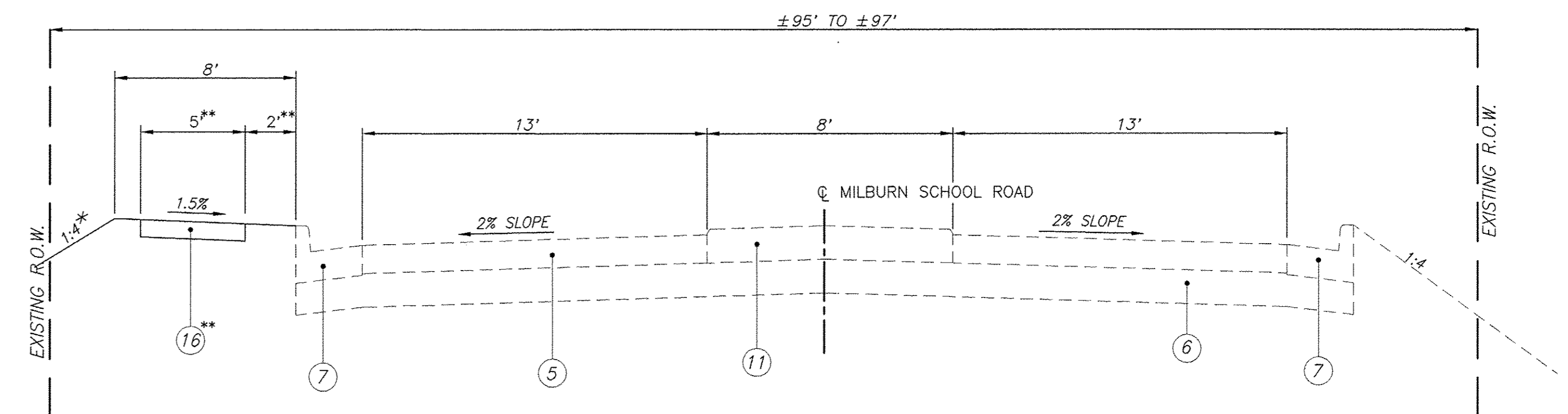


EXISTING TYPICAL SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 970+28.55 TO STA. 974+08.76

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES
 ** - EXISTING CURB & GUTTER, RIGHT - STA. 970+62.21 TO STA. 973+35.66 (TO BE REMOVED)
 *** - PCC SIDEWALK, RIGHT - STA. 971+38.67 TO STA. 971+51.17
 STA. 970+28.55 TO STA. 971+38.67 - USE 1:4 OR CROSS SECTION SLOPES
 **** - 7' GRADING STA. 970+28.55 TO STA. 971+40.00
 PCC SIDEWALK, LEFT - STA. 972+17.82 TO STA. 974+08.76



PROPOSED TYPICAL SECTION

N.T.S.

MILBURN SCHOOL ROAD
 STA. 981+02.74 TO STA. 982+70.78

* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES
 ** - PCC SIDEWALK 6' WIDE AND NO GREEN SPACE STA. 982+32.62 TO STA. 982+70.78

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	6
FEDERAL AID PROJECT		CONTRACT 97634		

DRAINAGE REMOVAL SCHEDULE

LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL	REMOVING INLETS	REMOVAL OF EXISTING STRUCTURES	TRENCH BACKFILL
		FOOT	EACH	EACH	CU YD
SECTION 10-00059-02-PV					
STA. 950+26, LT.	12" CMP	26			4
STA. 951+28, RT.	15" HDPE	20			
STA. 951+39, RT.	EXISTING INLET		1		
STA. 951+60, RT.	18" HDPE	44			
STA. 951+91, LT.	24" RCCP	32			
STA. 952+02, C	5x5' BOX CULVERT			1	
STA. 954+16, C	15" CMP	46			15
STA. 954+25, C	30" RCCP	40			19
STA. 956+84, RT.	EXISTING INLET		1		
STA. 956+84, RT.	18" CMP	10			
STA. 957+07, C	18" CMP	44			7
STA. 957+18, RT.	8" PVC/10" CMP	68			5
STA. 957+55, RT.	EXISTING INLET		1		
STA. 960+54, C	24" CMP	35			11
STA. 963+06, LT.	12" CMP	20			3
STA. 963+11, RT.	12" CMP	22			2
STA. 964+99, RT.	12" CMP	30			
STA. 978+88, LT.	15" HDPE	28			
STA. 978+88, RT.	15" HDPE	28			
TOTAL		493	3	1	66

ADJUSTMENT SCHEDULE

LOCATION	OFFSET	HANDHOLE TO BE ADJUSTED EACH
SECTION NO. 10-00059-02-PV		
STA. 973+98	41' LT.	1
STA. 975+10	35' LT.	1
TOTAL		2

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNITS	UNITS
SECTION NO. 10-00059-02-PV		
STA. 951+86, 26' LT.		18
STA. 951+92, 42'-51' RT. (3)	16	42
STA. 951+98, 23'-26' LT. (2)	12	18
STA. 952+36, 24' LT.		24
STA. 954+10, 41' LT. (TWIN)		48
STA. 955+52, 33' RT.	15	
STA. 956+96, 28' RT.	6	
STA. 957+16, 28' RT.	6	
STA. 957+69, 30' RT.	12	
TOTAL	67	150

MISCELLANEOUS REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL VARIABLE DEPTH	CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL
	SQ. YD.	SQ. YD.	FOOT	SQ. FT.
SECTION NO. 10-00059-02-PV				
STA. 949+75 TO 978+76, C	7,820			
STA. 970+28 TO 978+76, LT.		2,234		
STA. 970+57 TO 973+36, RT.			281	
STA. 971+40 TO 971+48, LT.				42
STA. 972+13 TO 972+23, LT.				42
STA. 974+09 TO 978+76, LT.	102			
TOTAL	7,922	2,234	281	84

MAILBOX REMOVAL AND REPLACEMENT SCHEDULE *

EXISTING LOCATION	LT / RT	MAILBOX PROPOSED OFFSET FOOT
SECTION NO. 10-00059-02-PV		
STA. 950+19	LT	17.0'
STA. 954+01	LT	17.0'
STA. 956+62 (2)	LT	17.0'
STA. 957+41	LT	17.0'
STA. 958+25	LT	17.0'
STA. 963+06	LT	22.1'

* - INCLUDED IN COST OF CONTRACT ACCORDING TO ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	7
FEDERAL AID PROJECT		CONTRACT 97634		

EROSION CONTROL BLANKET

LOCATION	EROSION CONTROL BLANKET SQ YD
SECTION NO. 10-00059-02-PV	
STA. 949+75 TO 951+49	219
STA. 951+49 TO 952+32	69
STA. 955+35 TO 955+67	24
TOTAL	312

INLET AND PIPE PROTECTION SCHEDULE

LOCATION	INLET AND PIPE PROTECTION EACH
SECTION NO. 10-00059-02-PV	
STA. 950+97, 17' LT.	1
STA. 950+97, 17' RT.	1
STA. 952+85, 17' LT.	1
STA. 952+85, 17' RT.	1
STA. 954+14, 32' LT.	1
STA. 955+50, 17' LT.	1
STA. 956+67, 17' LT.	1
STA. 957+17, 18' LT.	1
STA. 957+65, 33' RT.	1
STA. 960+59, 19' LT.	1
STA. 960+59, 19' RT.	1
STA. 960+65, 40' LT.	1
STA. 963+28, 22' LT.	1
STA. 963+28, 22' RT.	1
STA. 964+10, 32' RT.	1
TOTAL	15

RIP RAP SCHEDULE

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)			DEPTH (FOOT)	STONE RIPRAP CLASS A4 (SQ YD)	FILTER FABRIC (SQ YD)
		A	B	C			
SECTION NO. 10-00059-02-PV							
STA. 952+00, RT.	15	7	6	7	3.5	31.3	31.3
STA. 954+22, RT.	8	3	4	3	1	9.2	9.2
STA. 956+82, RT.	8	3	2	3	1	7.5	7.5
TOTAL						48	48

NOTE: PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 40 FOR APPLICATION OF DIMENSIONS.

PERIMETER EROSION BARRIER SCHEDULE

LOCATION	PERIMETER EROSION BARRIER FOOT
SECTION NO. 10-00059-02-PV	
STA. 949+75 TO 951+50	175
STA. 951+75 TO 952+50	75
STA. 952+75 TO 953+25	50
STA. 954+00 TO 954+50	50
STA. 954+75 TO 955+75	100
TOTAL	450

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

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	STRUCTURE EXCAVATION	EARTH / STRUCTURE EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
SECTION NO. 10-00059-02-PV						
STA. 951+75 TO 952+31	---	445	334	157	+177	
STA. 949+75 TO 951+75	578	---	434	63	+371	
STA. 952+31 TO 959+73	1033	---	775	494	+281	
STA. 959+73 TO 970+28	878	---	658	456	+202	
STA. 970+28 TO 982+71	126	---	95	519	-424	
TOTAL	2,615	445	2,296	1,688	+607	

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2 ACRE	MULCH METHOD 2 ACRE	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING POUND
			NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND	
SECTION NO. 10-00059-02-PV						
STA. 949+74.72 TO 978+75.72	1.2	1.2	108	108	108	120
TOTAL	1.2	1.2	108	108	108	120

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS									
	SOLID WHITE 4" LANE LINE FOOT	SOLID YELLOW 4" LANE LINE FOOT	YELLOW SKIP DASH 4" LANE LINE FOOT	WHITE SKIP DASH 4" LANE LINE 2'-6" SPACING FOOT	SOLID DOUBLE YELLOW 4" LANE LINE FOOT	SOLID YELLOW 12" DIAGONAL LINE FOOT	SOLID WHITE 12" CROSSWALK LINE FOOT	SOLID WHITE 24" BAR FOOT	LETTERS AND SYMBOLS SQ. FT.	PAVEMENT MARKING REMOVAL - WATER BLASTING SQ. FT.
SECTION NO. 10-00059-02-PV										
STA. 947+50 TO 949+75 RT.					1,996					75
STA. 949+75 TO 959+73 C					1,618	109				
STA. 959+73 TO 963+93 LT./RT.									93.6	
STA. 963+93 TO 969+63 LT./RT.		1,140	280							
STA. 969+63 TO 971+39 LT./RT.					352					
STA. 970+23 TO 971+39 RT.	115								31.2	
STA. 970+23 TO 971+39 LT.										
STA. 971+39 LT.							25			
STA. 971+45 TO 972+16 LT.							236			
STA. 972+22 LT.							30			
STA. 972+22 TO 974+09 LT.	185								46.8	
STA. 972+19 TO 978+76 LT./RT.					2,633	318				
STA. 974+09 TO 976+09 LT.				50						
SUBTOTAL	300	1,140	280	50	6,599	427	236	55	171.6	75
TOTAL			8,369			663	55		171.6	75

NOTE: ALL LETTERS AND SYMBOLS ARE WHITE TURN ARROWS.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	8
FEDERAL AID PROJECT		CONTRACT 97634		

CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B-6.24	PROTECTIVE COAT
	FOOT	SQ YD
SECTION NO. 10-00059-02-PV		
STA. 949+75 TO 970+28 LT	2,054	571
STA. 949+75 TO 978+76 RT	2,901	806
STA. 974+09 TO 978+76 LT	467	130
TOTAL	5,422	1,507

PAVING SCHEDULE

LOCATION	PROCESSING MODIFIED SOIL, 12"	LIME	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	HMA BINDER CRSE. IL-19.0, N70, 6"	BIT. MATERIALS (PRIME COAT)	HMA SURFACE CRSE., MIX "D", N70, 2"
	SQ YD	TON	SQ YD	TON	POUND	TON
SECTION NO. 10-00059-02-PV						
STA. 949+74.72 TO 959+72.54			3,471	968	7,915 *	323
STA. 959+72.54 TO 978+75.72	7,386	142		2,087	3,800	946
TOTAL	7,386	142	3,471	3,055	11,715	1,269

*NOTE: INCLUDES PRIME COAT FOR BITUMINOUS ENTRANCES.

SIGN SCHEDULE

LOCATION	LT/RT	PROPOSED OFFSET (FOOT)	SIGN PANEL TYPE 1 (SQ. FT.)	METAL POST TYPE B (FOOT)	DESCRIPTION
SECTION NO. 10-00059-02-PV					
STA. 963+93	RT.	23.0	6.0	14	R3-9B (24x36) *
STA. 969+50	LT.	29.0	6.0	14	R3-9B (24x36) *
STA. 978+00	LT.	30.0	5.0	14	R2-1 (24x30) (45 MPH)
TOTAL			17.0	42	

*NOTE: R3-9B IS "TWO WAY LEFT TURN ONLY" SIGN.

ENTRANCE / SIDEROAD SCHEDULE

STATION	EXISTING SURFACE	TYPE	"L"	"W"	DRIVEWAY PVM'T REMOVAL	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGG. BASE COURSE, TY B	PCC DRIVEWAY PAVEMENT, 6"	AGG. SURFACE COURSE, TY B	COMMENTS
			FOOT	FOOT	SQ. YD.	TON	TON	SQ. YD.	TON	
SECTION NO. 10-00059-02-PV										
950+27.63 LT.	OIL & CHIP/HMA	P.E.	18.8	13.0	20.7	2.4	6.4	16.9		
951+17.12 LT.	OIL & CHIP/HMA	P.E.	9.0	16.0	24.1			20.0		
951+50.00 RT.	TURF	F.E.	8.0	18.0				23.4		
953+72.80 RT.	AGGREGATE/HMA	P.E.	8.8	20.0	20.9			27.4		
955+99.23 RT.	TURF	F.E.	8.0	24.0				28.6		
956+14.35 RT.	ASPHALT	P.E.	14.0	19.2	44.8			40.4		SKewed SEE PLANS
956+84.17 LT.	AGGREGATE/HMA	P.E.	9.0	13.0	17.1			17.0		
957+18.12 RT.	OIL & CHIP/HMA	P.E.	37.4	15.2	53.5	7.8	20.9	36.1		SKewed SEE PLANS
958+41.95 LT.	AGGREGATE/HMA	P.E.	9.0	12.0	11.6			12.6	1.5	
963+10.82 RT.	AGGREGATE/HMA	P.E.	16.5	12.7	16.1			19.6	3.8	
963+25.39 LT.	HMA/TURF	F.E.			9.9					TO BE REMOVED
964+99.28 RT.	TURF	F.E.	8.0	30.0				27.2		
971+71.36 RT.	CONCRETE	F.E.	6.0	18.0	13.9			16.1		
TOTAL					232.6	10.2	27.3	285.3	5.3	

NOTES: PLEASE REFER TO ENTRANCE DETAILS ON SHEET 36 TO SEE APPLICATION OF THE DIMENSIONS.
DRIVEWAY PAVEMENT REMOVAL INCLUDES ALL SURFACE TYPES.

PCC SIDEWALK SCHEDULE

LOCATION	P.C.C. SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ FT	SQ FT
SECTION NO. 10-00059-02-PV		
STA. 971+35 TO 971+48 LT.	78	
STA. 971+47 LT.		12
STA. 972+39 TO 972+51 RT.	82	
STA. 971+48 RT.		12
STA. 972+13 TO 982+71 LT.	5,410	
STA. 972+16 LT.		12
TOTAL	5,570	36

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	9
FEDERAL AID PROJECT			CONTRACT 97634	

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM ⁽¹⁾	INVERTS
SECTION NO. 10-00059-02-PV				
59.	950+96.87 17.50'L	INLETS TO BE ADJUSTED (SPECIAL) ***	554.94	551.06 S * 553.69 N **
60.	950+96.87 17.00'R	INLETS, SPECIAL, NO. 1	554.94	551.40 N
61.	952+00.40 37.63'L	BOX CULVERT END SECTIONS, CULVERT NO. 1	—	543.99 S
62.	952+05.98 40.17'R	BOX CULVERT END SECTIONS, CULVERT NO. 1	—	543.74 N
63.	952+84.67 17.00'R	INLETS, SPECIAL, NO. 1	552.75	548.78 N 548.58 W
64.	952+84.67 17.00'L	INLETS, SPECIAL, NO. 1	552.75	549.24 S
65.	954+14.33 31.82'L	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	—	547.88 SE
66.	954+21.94 18.50'L	INLETS, SPECIAL, NO. 3	553.34	547.42 NW 547.22 S
67.	954+21.94 18.50'R	INLETS, SPECIAL, NO. 3	553.34	546.28 N 546.08 S 548.08 E
68.	954+23.59 46.26'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	—	545.50 N
69.	955+50.05 17.00'R	INLETS, SPECIAL, NO. 1	553.98	550.20 N 550.00 W
70.	955+50.05 17.00'L	INLETS, SPECIAL, NO. 1	553.98	550.66 S
71.	956+67.32 17.00'L	INLETS, SPECIAL, NO. 1	554.88	553.88 N** 551.75 E
72.	956+82.49 18.50'R	INLETS, SPECIAL, NO. 3	555.00	551.30 E 551.30 S 551.30 NE
73.	956+82.96 33.05'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	—	551.25 N
74.	957+17.14 18.50'L	INLETS, SPECIAL, NO. 3	555.28	551.60 S 551.60 E 554.03 N**
75.	957+65.26 17.00'R	INLETS, SPECIAL, NO. 1	555.67	551.92 W 552.02 S
76.	957+65.39 32.50'R	INLETS, TYPE A, TYPE 8 GRATE	553.70	552.09 N
77.	960+52.24 36.71'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	—	551.73 N
78.	960+59.96 18.74'L	INLETS, SPECIAL, NO. 2	555.28	551.93 NE 551.93 S 551.93 E
79.	960+59.96 18.75'R	INLETS, SPECIAL, NO. 2	555.28	551.79 N 551.79 S
80.	960+65.25 39.71'L	INLETS, SPECIAL, NO. 1	554.75	552.00 SW 553.75 N** 553.75 E** 553.75 W**
81.	962+00.36 20.25'L	INLETS, SPECIAL, NO. 1	555.80	552.40 S 552.64 E 552.64 W
82.	961+99.78 20.24'R	INLETS, SPECIAL, NO. 1	555.79	552.63 N
83.	963+28.49 22.08'L	INLETS, SPECIAL, NO. 1	556.58	553.28 E 553.28 S 553.28 W

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	RIM ⁽¹⁾	INVERTS
SECTION NO. 10-00059-02-PV (CONTINUED)				
84.	963+27.86 22.08'R	INLETS, SPECIAL, NO. 1	556.58	553.51 N
85.	964+50.09 23.00'R	INLETS, SPECIAL, NO. 1	557.55	554.39 N 554.49 W
85A.	964+10.15 23.00'R	INLETS, SPECIAL, NO. 1	557.23	554.69 E 554.79 S
85B.	964+10.21 31.13'R	INLETS, SPECIAL, NO. 1	558.00	554.83 N 557.00 S** 557.00 E** 557.00 W**
86.	964+50.09 23.00'L	INLETS, SPECIAL, NO. 1	557.55	553.93 S 553.93 E 553.89 W
87.	965+75.09 23.00'R	INLETS, SPECIAL, NO. 1	558.57	555.11 N
88.	965+75.09 23.00'L	INLETS, SPECIAL, NO. 1	558.57	554.65 S 554.75 E 554.55 W
89.	967+00.09 23.00'R	INLETS, SPECIAL, NO. 1	559.88	556.56 N
90.	967+00.09 23.00'L	INLETS, SPECIAL, NO. 1	559.88	556.20 E 556.10 S 556.00 W
91.	968+25.09 23.00'L	INLETS, SPECIAL, NO. 1	562.17	558.40 E 558.20 W 558.30 S
92.	968+25.09 23.00'R	INLETS, SPECIAL, NO. 1	562.17	558.76 N
93.	970+11.13 23.81'L	INLETS, SPECIAL, NO. 1	567.05	563.16 S 562.96 W
94.	970+11.13 23.00'R	INLETS, SPECIAL, NO. 1	567.06	563.63 N
95.	974+22.52 23.00'R	INLETS, SPECIAL, NO. 1	565.87	561.74 N 560.54 E
96.	974+22.52 37.21'L	INLETS, SPECIAL, NO. 1	565.59	562.04 S
97.	976+56.88 23.00'R	INLETS, SPECIAL, NO. 1	559.11	555.44 W 554.24 E 555.34 N
98.	976+56.88 24.39'L	INLETS, SPECIAL, NO. 1	559.08	555.81 S

- (1) - AT FACE OF CURB WHERE APPLICABLE (INCLUDES LID)
 (*) - EXISTING KNOCKOUT PROVIDED. MODIFICATION TO INLET TO ALLOW FOR ADDITION OF PROPOSED STORM SEWER. (INCLUDED IN THE COST OF INLETS TO BE ADJUSTED (SPECIAL)).
 (**) - DENOTES OPEN THROAT ELEVATION
 (***) - SEE DETAIL SHEET 40
- NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE. PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 40 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	10
FEDERAL AID PROJECT			CONTRACT 97634	

STORM SEWER SCHEDULE									
PIPE NO.	START STRUCTURE	END STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL
SECTION NO. 10-00059-02-PV									
56.	60.	59.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	31'	551.40	551.06	1.11%	7
57.	EXISTING 24" RCCP	BOX CULVERT	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	36'	547.12	546.16	2.67%	10
58.	61.	62.	Precast Concrete Box Culvert	6'x5'	66'	*543.99	*543.74	0.32%	0
59.	63.	BOX CULVERT	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	76'	548.58	546.80	2.35%	51
60.	64.	63.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	31'	549.24	548.78	1.48%	7
61.	65.	66.	Storm Sewers, Rubber Gasket, Class A, Type 1	42"	5'	*547.88	547.42	3.03%	0
62.	66.	67.	Storm Sewers, Rubber Gasket, Class A, Type 1	42"	31'	547.22	546.28	3.03%	17
63.	67.	68.	Storm Sewers, Rubber Gasket, Class A, Type 1	42"	18'	546.08	*545.50	3.22%	2
64.	69.	67.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	124'	550.00	548.08	1.55%	42
65.	70.	69.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	31'	550.16	550.20	1.48%	6
66.	71.	74.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	45'	551.75	551.60	0.33%	7
67.	72.	73.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	6'	551.30	551.25	0.83%	1
68.	74.	72.	Storm Sewers, Class A, Equivalent Round-Size	24"	44'	551.60	*551.30	0.68%	11
69.	75.	72.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	79'	551.92	551.30	0.79%	20
70.	76.	75.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	12'	552.09	552.02	0.56%	3
71.	78.	79.	Storm Sewers, Class A, Equivalent Round-Size	24"	33'	551.93	551.79	0.42%	7
72.	79.	77.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	12'	551.79	*551.73	0.50%	2
73.	80.	78.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	18'	552.00	551.93	0.38%	0
74.	81.	78.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	137'	552.64	551.93	0.52%	18
75.	82.	81.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	37'	552.63	552.40	0.61%	7
76.	83.	81.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	125'	553.28	552.64	0.51%	16
77.	84.	83.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	41'	553.51	553.28	0.56%	7
78.	85.	86.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	554.39	553.93	1.07%	9
78A.	85A.	85.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	37'	554.69	554.49	0.54%	6
78B.	85B.	85A.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	5'	554.83	554.79	0.84%	1
79.	86.	83.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	119'	553.89	553.28	0.51%	21
80.	88.	86.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	122'	554.55	553.93	0.51%	26
81.	87.	88.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	555.11	554.65	1.07%	10
82.	90.	88.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	122'	556.00	554.75	1.03%	26
83.	89.	90.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	556.56	556.10	1.07%	9
84.	91.	90.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	122'	558.20	556.20	1.64%	26
85.	92.	91.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	558.76	558.30	1.07%	9
86.	93.	91.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	183'	562.96	558.40	2.49%	41
87.	94.	93.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	44'	563.63	563.16	1.07%	10
88.	96.	95.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	57'	562.04	561.74	0.53%	14
89.	95.	97.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	231'	560.54	555.44	2.20%	68
90.	97.	EXISTING INLET	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	244'	554.24	548.97	2.16%	63
91.	98.	97.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	44'	555.81	555.34	1.06%	10

*ELEVATION AT END OF END SECTION.

DRAINAGE STRUCTURE SUMMARY

	INLET TO BE ADJUSTED (SPECIAL)	INLETS, TYPE A TYPE B GRATE	INLET SPECIAL, NO. 1 (3'x3')	INLET SPECIAL, NO. 2 (4'x4')	INLET SPECIAL, NO. 3 (6'x6')	PRECAST REINFORCED CONCRETE FLARED END SECTION 24"	PRECAST REINFORCED CONCRETE FLARED END SECTION 42"
	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
TOTAL	1	1	28	2	4	2	2

STORM SEWER SUMMARY

	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 42"	STORM SEWERS, RUBBER GASKET, CLASS A, EQUIV. ROUND SIZE - 24"	TRENCH BACKFILL
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU. YD.
TOTAL	866	902	503	72	54	77	590

TRENCH BACKFILL SUMMARY

LOCATION	TRENCH BACKFILL
	CU. YD.
SECTION NO. 10-00059-02-PV	
STORM SEWER SCHEDULE	590
DRAINAGE REMOVAL SCHEDULE	66
TOTAL	656

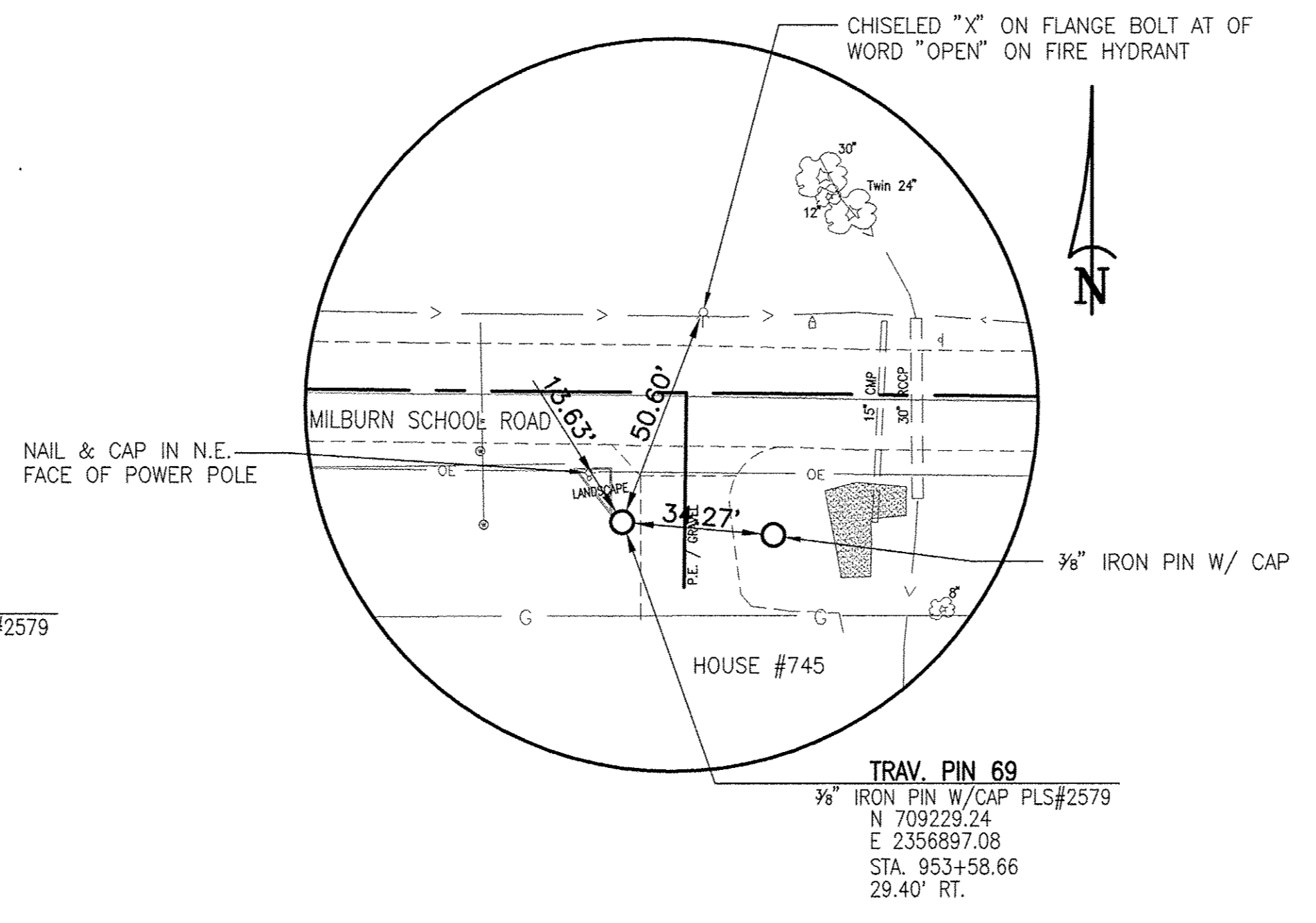
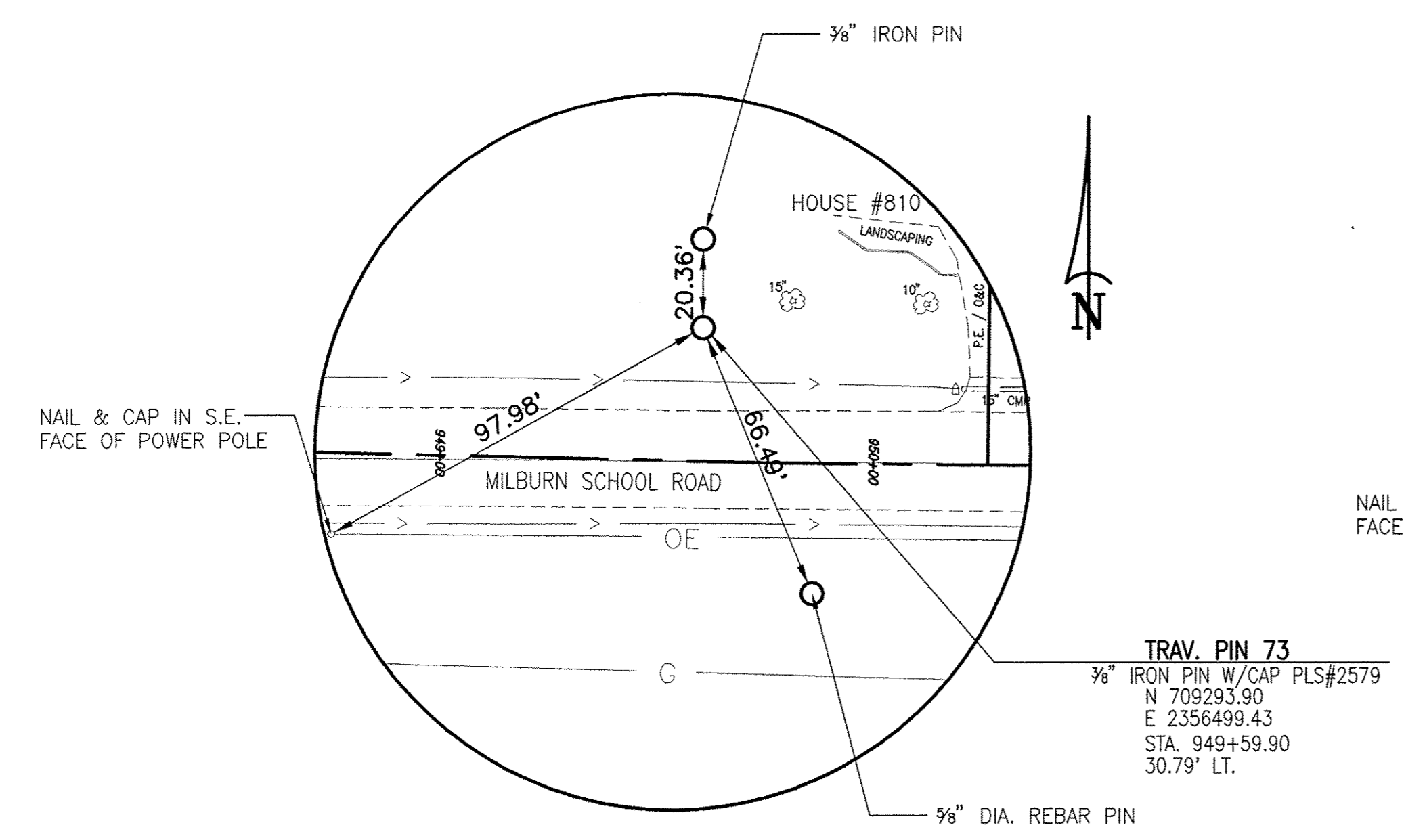
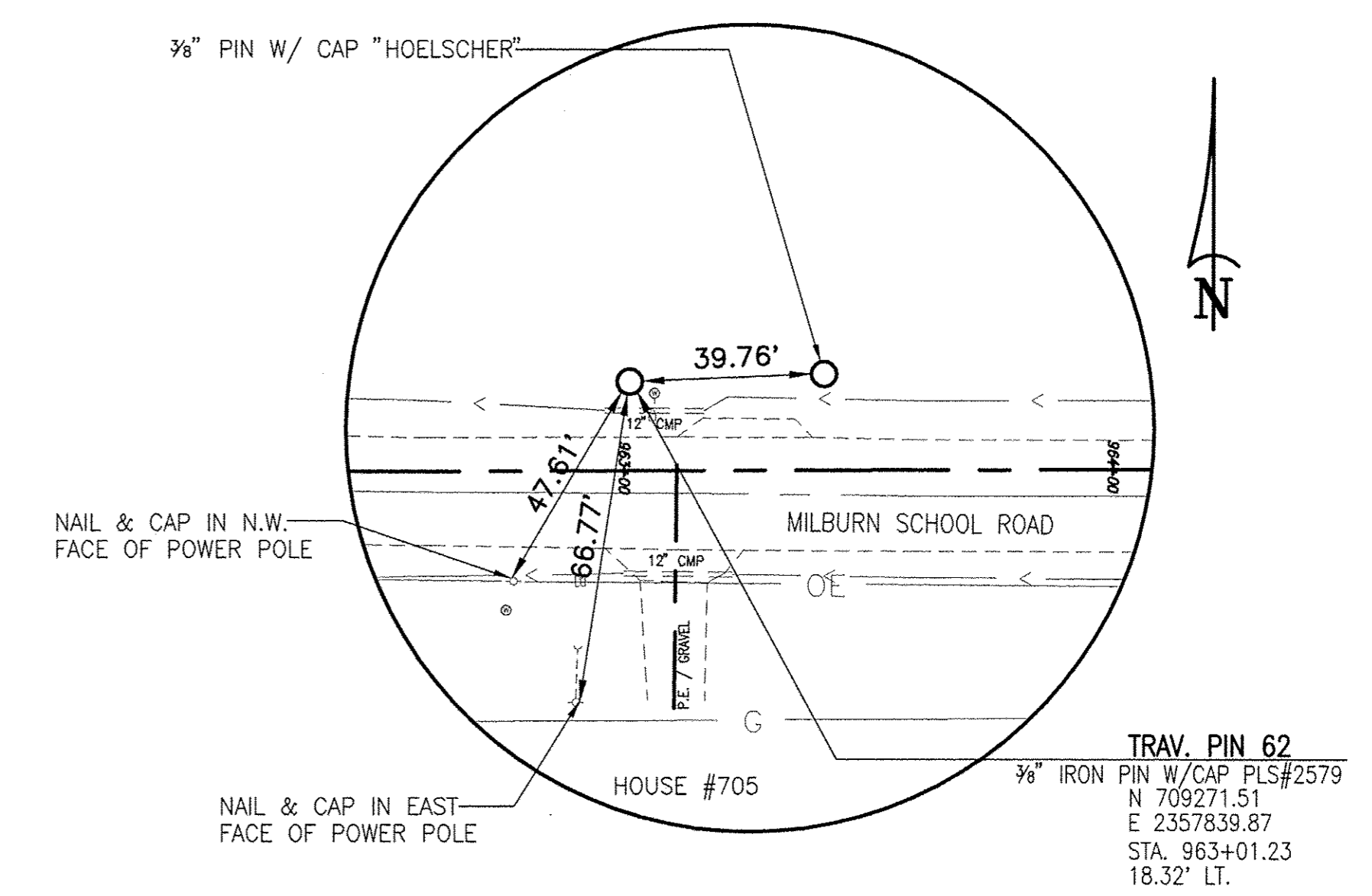
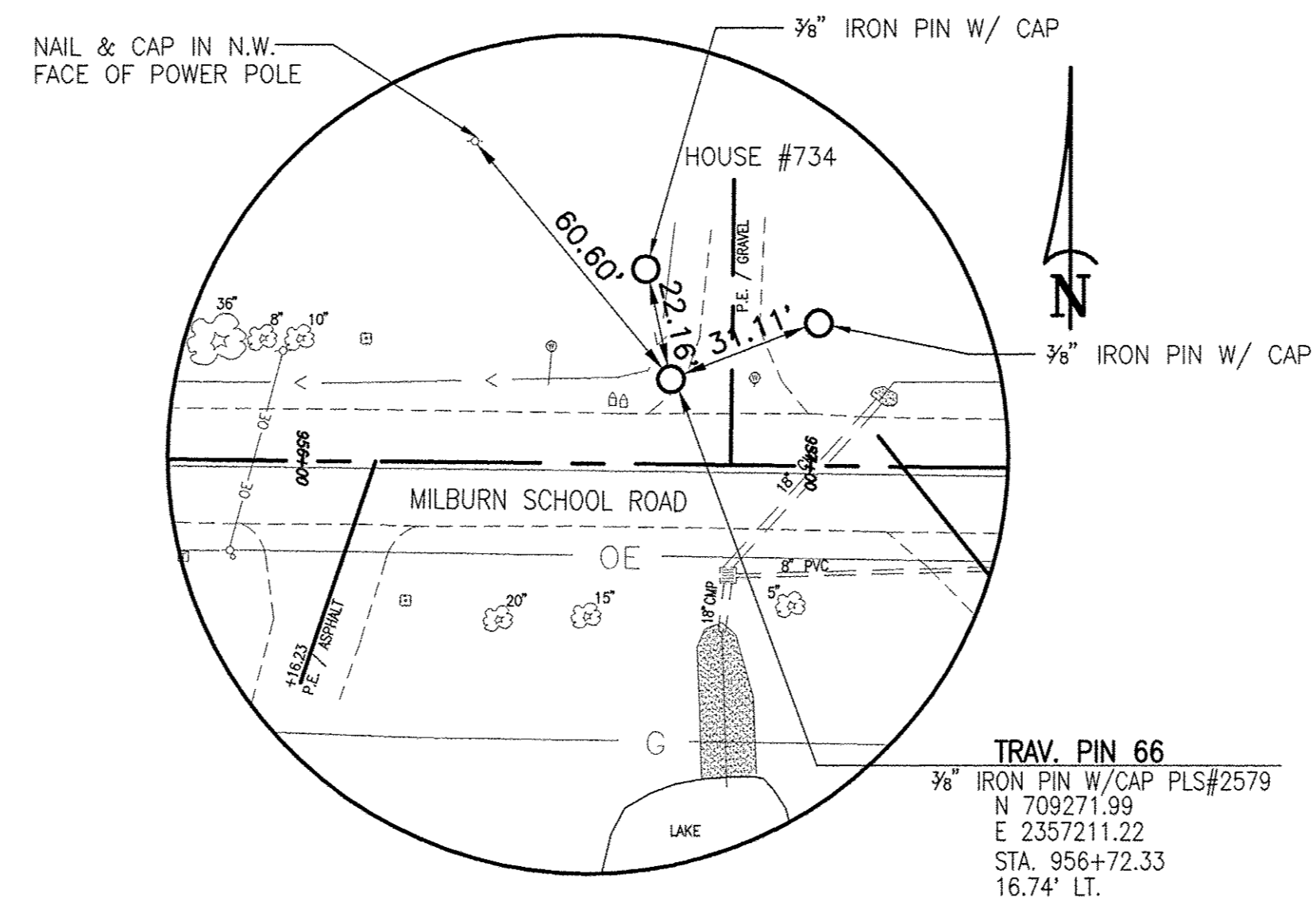
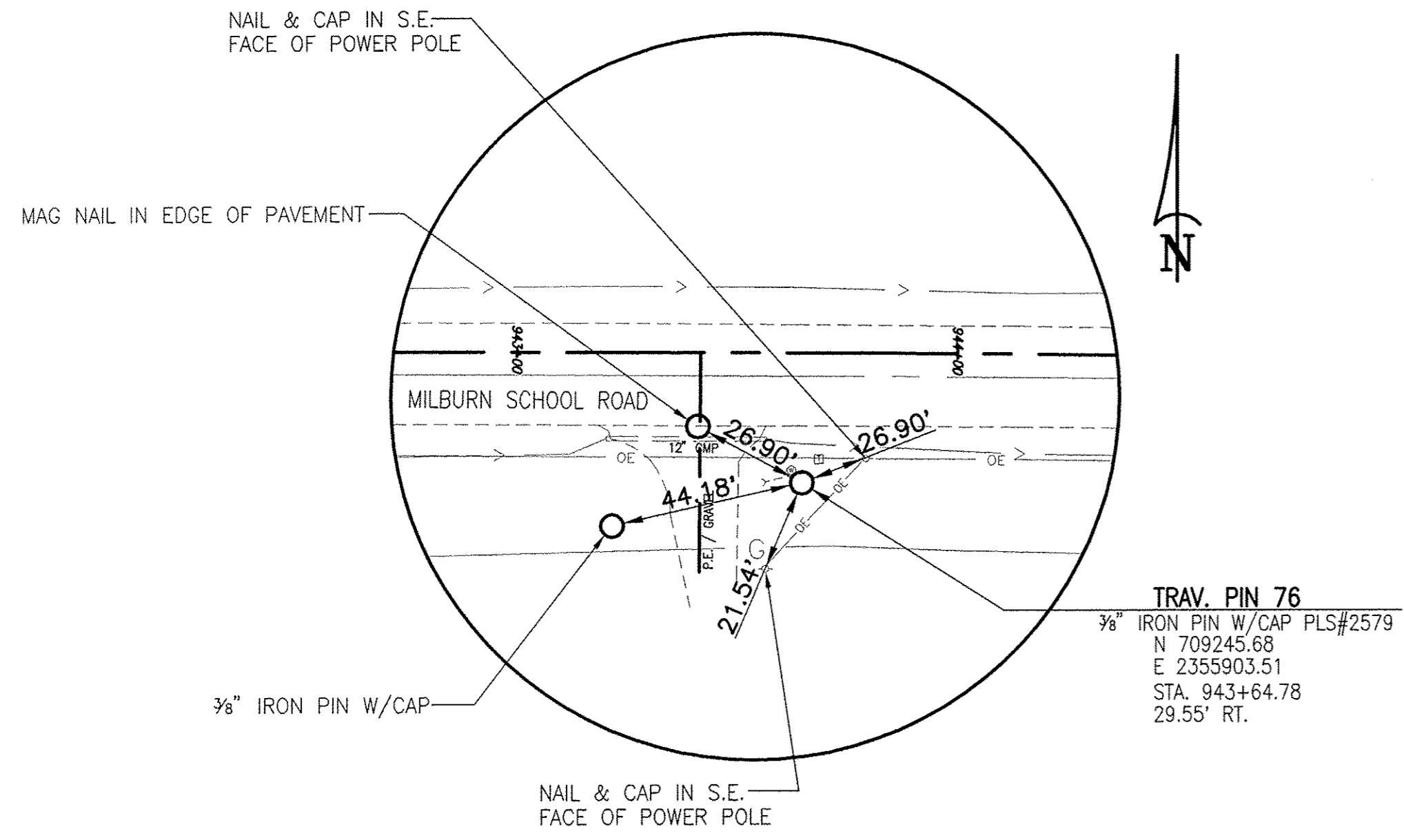
BOX CULVERT BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL OF EXISTING STRUCTURES	EACH	1
STRUCTURE EXCAVATION	CU. YD.	445
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
PRECAST CONCRETE BOX CULVERT 6'x5'	FOOT	66
POROUS GRANULAR EMBANKMENT	CU. YD.	420

HORIZONTAL CONTROL TIE POINTS

N.T.S.

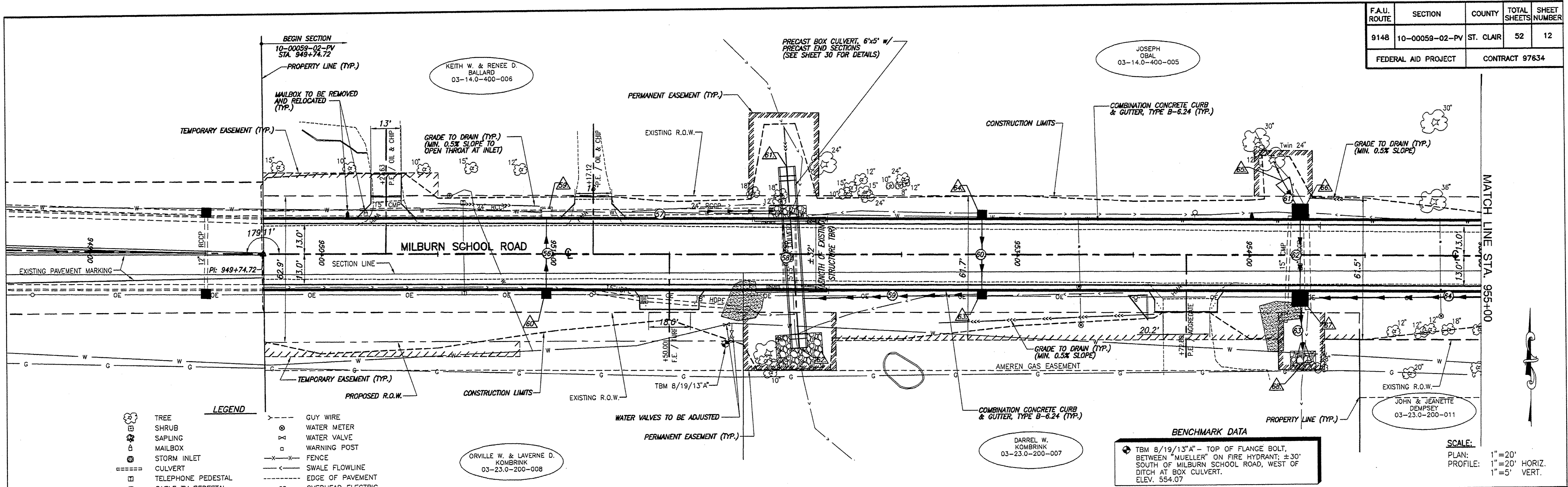
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	11
FEDERAL AID PROJECT		CONTRACT 97634		



COORDINATE TABLE - MSR

STATION / DESCRIPTION	NORTHING	EASTING
CL STA. 949+74.72	709262.76	2356513.48
P.I. STA. 959+72.54	709252.03	2357511.24
P.I. STA. 963+92.58	709253.51	2357931.28
P.I. STA. 964+44.54	709252.96	2357983.24
P.I. STA. 970+67.74	709249.85	2358606.43
P.I. STA. 973+30.71	709246.94	2358869.38
CL STA. 978+75.72	709242.05	2359414.37

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	12
FEDERAL AID PROJECT		CONTRACT 97634		

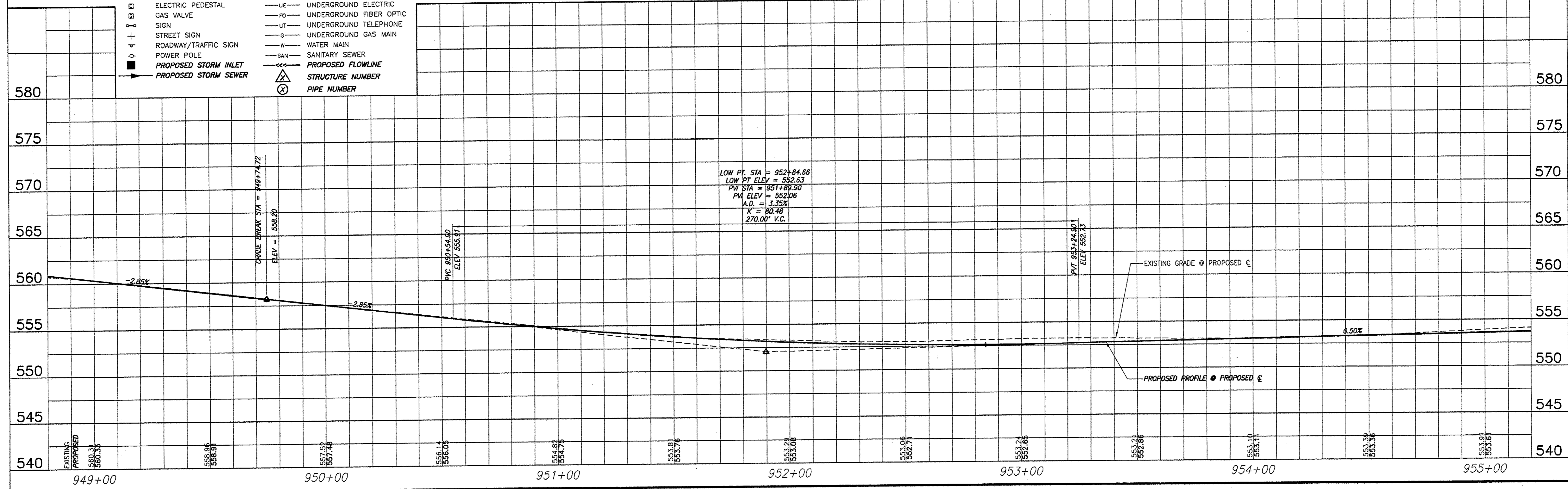


- LEGEND**
- TREE
 - SHRUB
 - SAPLING
 - MAILBOX
 - STORM INLET
 - CULVERT
 - TELEPHONE PEDESTAL
 - CABLE TV PEDESTAL
 - ELECTRIC PEDESTAL
 - GAS VALVE
 - SIGN
 - STREET SIGN
 - ROADWAY/TRAFFIC SIGN
 - POWER POLE
 - PROPOSED STORM INLET
 - PROPOSED STORM SEWER
 - GUY WIRE
 - WATER METER
 - WATER VALVE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

BENCHMARK DATA

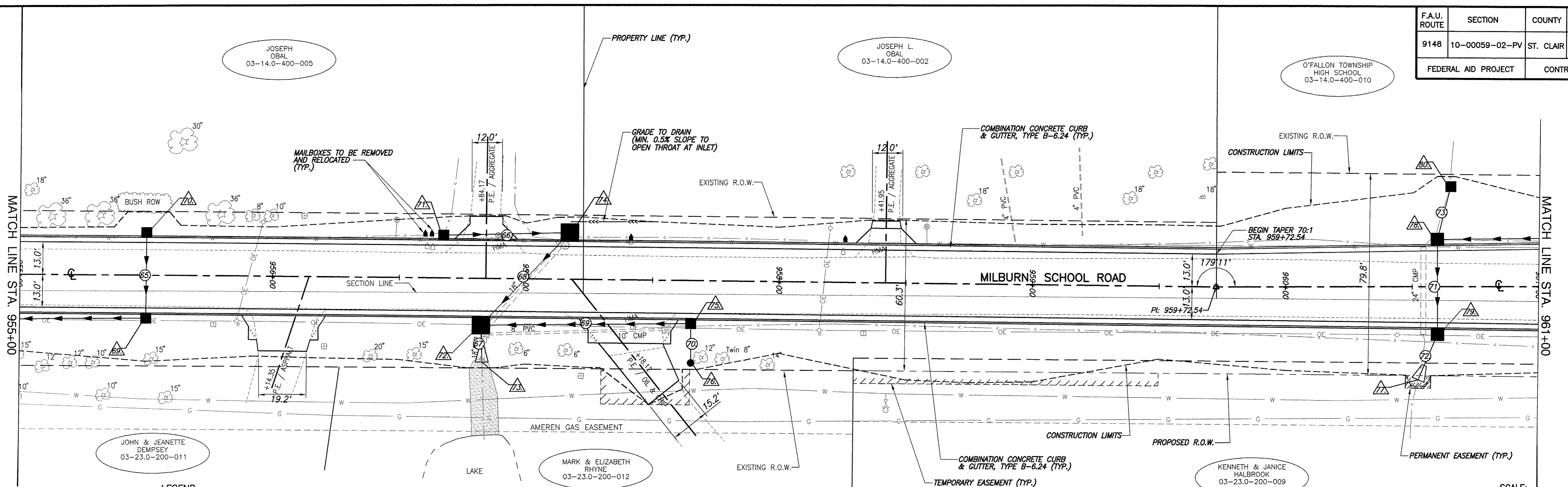
• TBM 8/19/13"A" - TOP OF FLANGE BOLT, BETWEEN "MUELLER" ON FIRE HYDRANT, ± 30' SOUTH OF MILBURN SCHOOL ROAD, WEST OF DITCH AT BOX CULVERT. ELEV. 554.07

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



ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

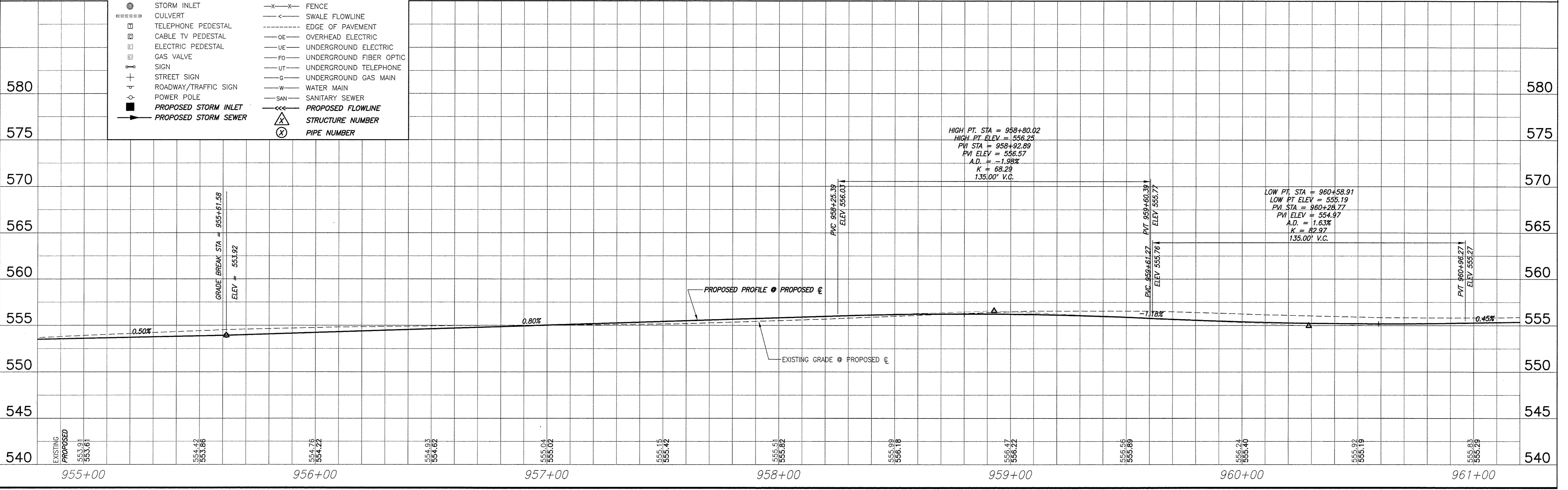
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	13
FEDERAL AID PROJECT			CONTRACT 97634	



LEGEND

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

NOTE: ANY RIPRAP REMOVED DURING CONSTRUCTION OF PIPE 67 AND STRUCTURE 73 SHALL BE REPLACED AND REGARDED UPON COMPLETION OF THE END SECTION. COST INCLUDED IN COST OF THE CONTRACT.

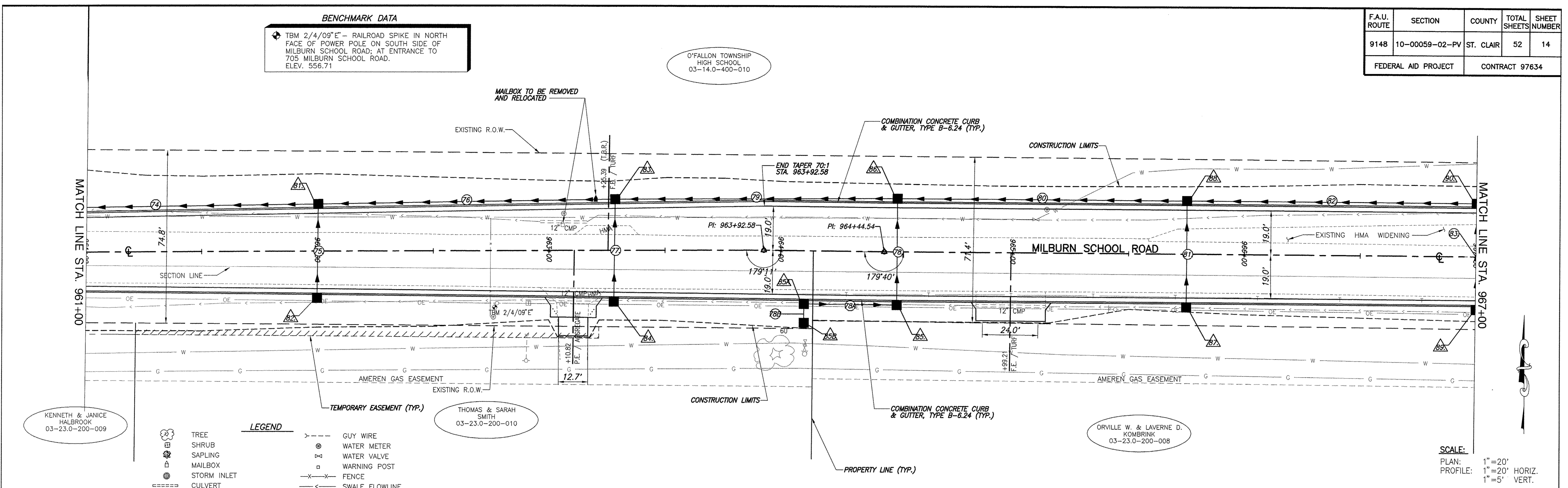


ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	14
FEDERAL AID PROJECT			CONTRACT 97634	

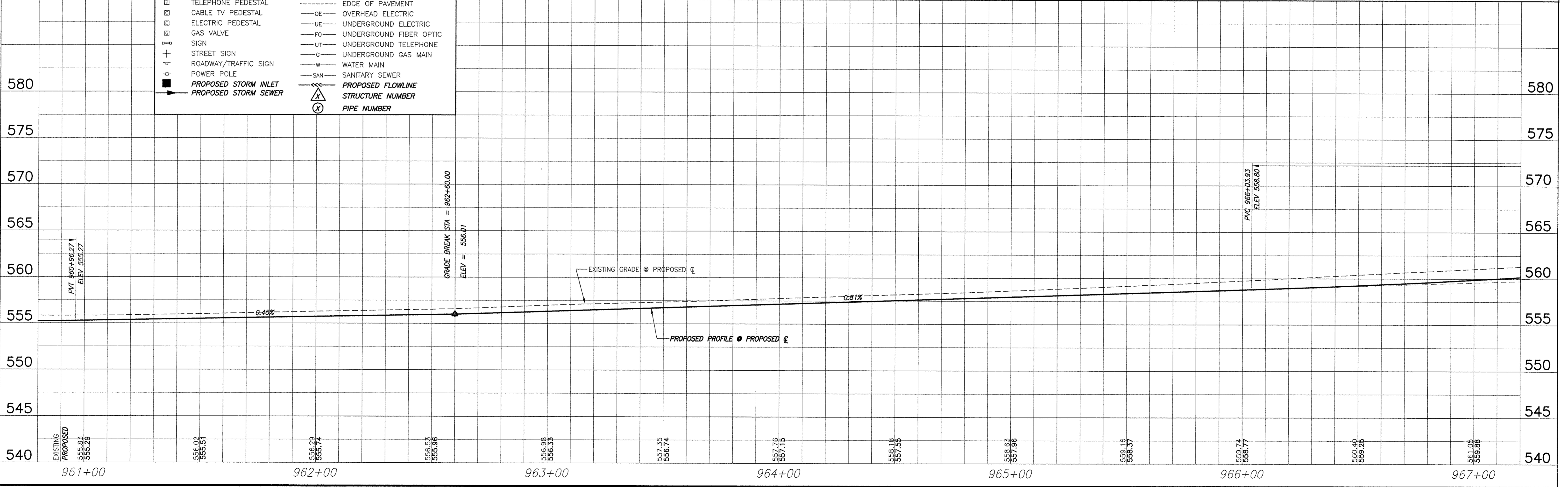
BENCHMARK DATA
 TBM 2/4/09"E - RAILROAD SPIKE IN NORTH FACE OF POWER POLE ON SOUTH SIDE OF MILBURN SCHOOL ROAD; AT ENTRANCE TO 705 MILBURN SCHOOL ROAD. ELEV. 556.71

O'FALLON TOWNSHIP HIGH SCHOOL
 03-14.0-400-010



LEGEND

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

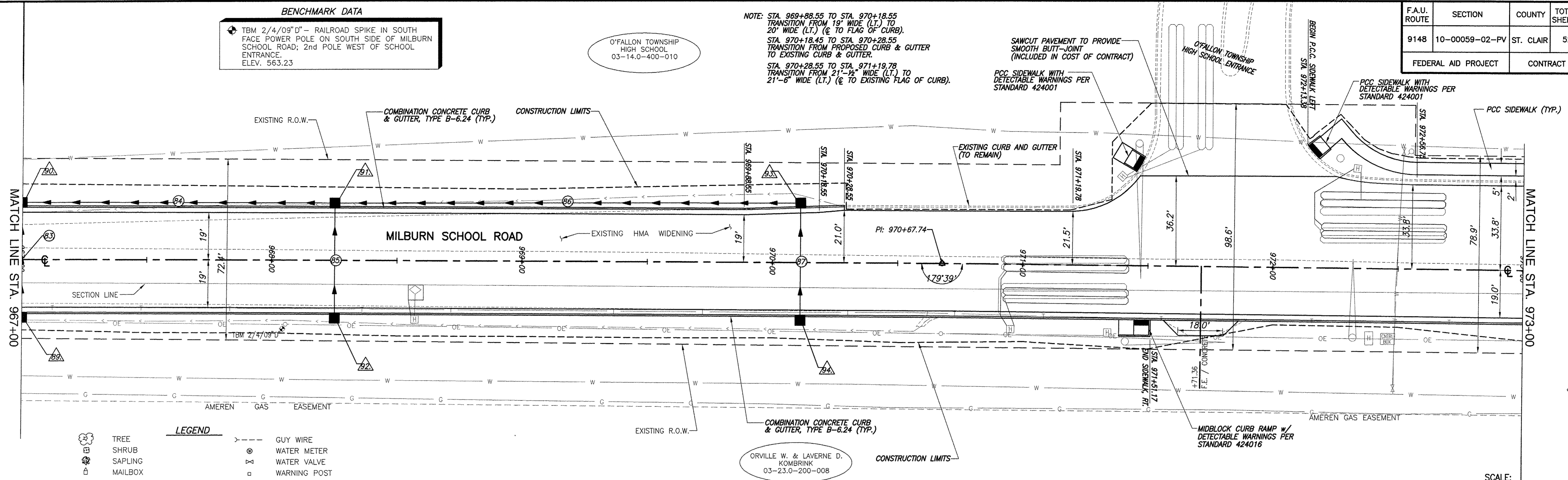


ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS
 ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	15
FEDERAL AID PROJECT			CONTRACT 97634	

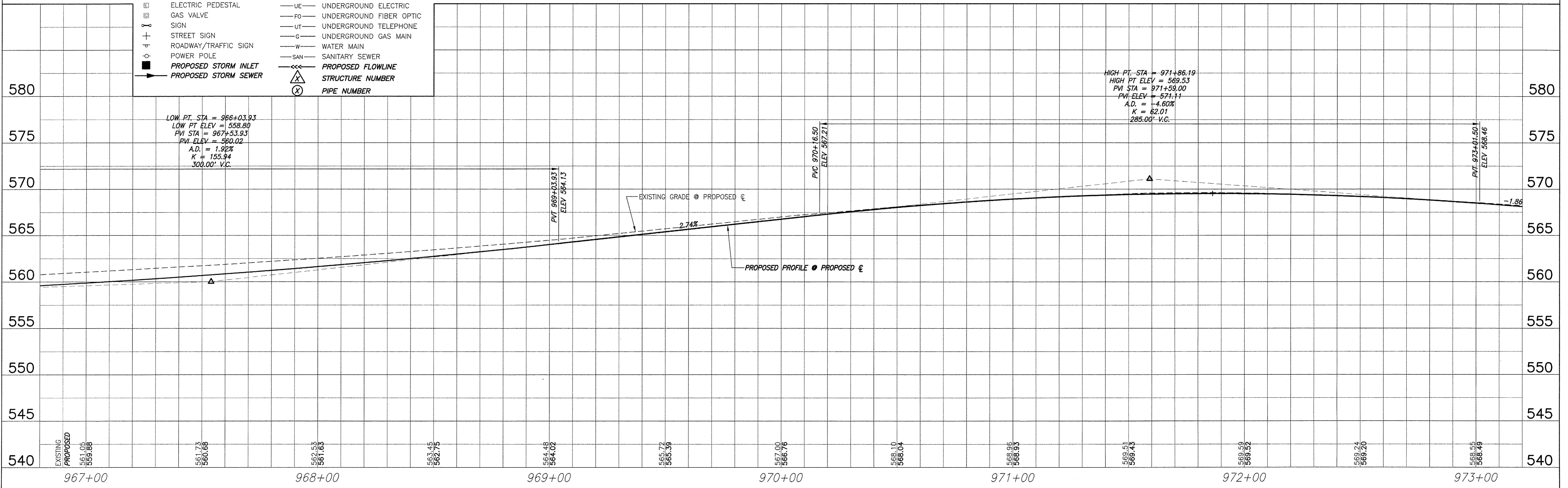
BENCHMARK DATA
 TBM 2/4/09" D" - RAILROAD SPIKE IN SOUTH FACE POWER POLE ON SOUTH SIDE OF MILBURN SCHOOL ROAD; 2ND POLE WEST OF SCHOOL ENTRANCE.
 ELEV. 563.23

NOTE: STA. 969+88.55 TO STA. 970+18.55
 TRANSITION FROM 19' WIDE (L.T.) TO 20' WIDE (L.T.) (C TO FLAG OF CURB).
 STA. 970+18.45 TO STA. 970+28.55
 TRANSITION FROM PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER.
 STA. 970+28.55 TO STA. 971+19.78
 TRANSITION FROM 21'-1/2" WIDE (L.T.) TO 21'-6" WIDE (L.T.) (C TO EXISTING FLAG OF CURB).



LEGEND

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



NOTE: SEE SHEET 18 FOR VARIABLE DEPTH MILLING DETAILS.

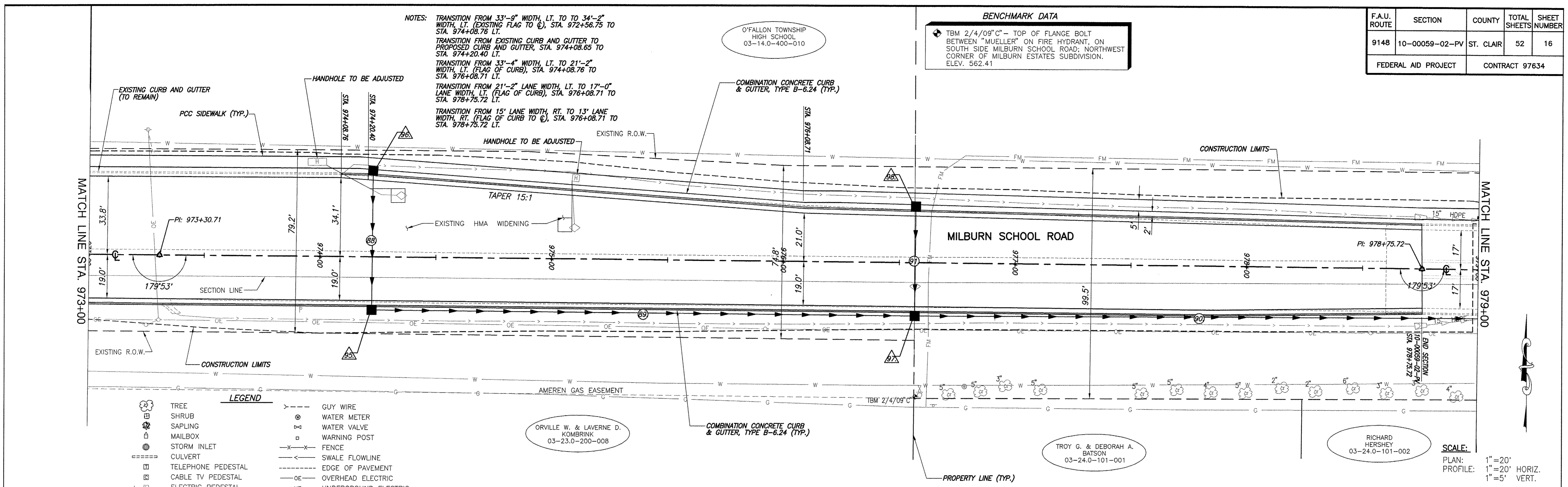
SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

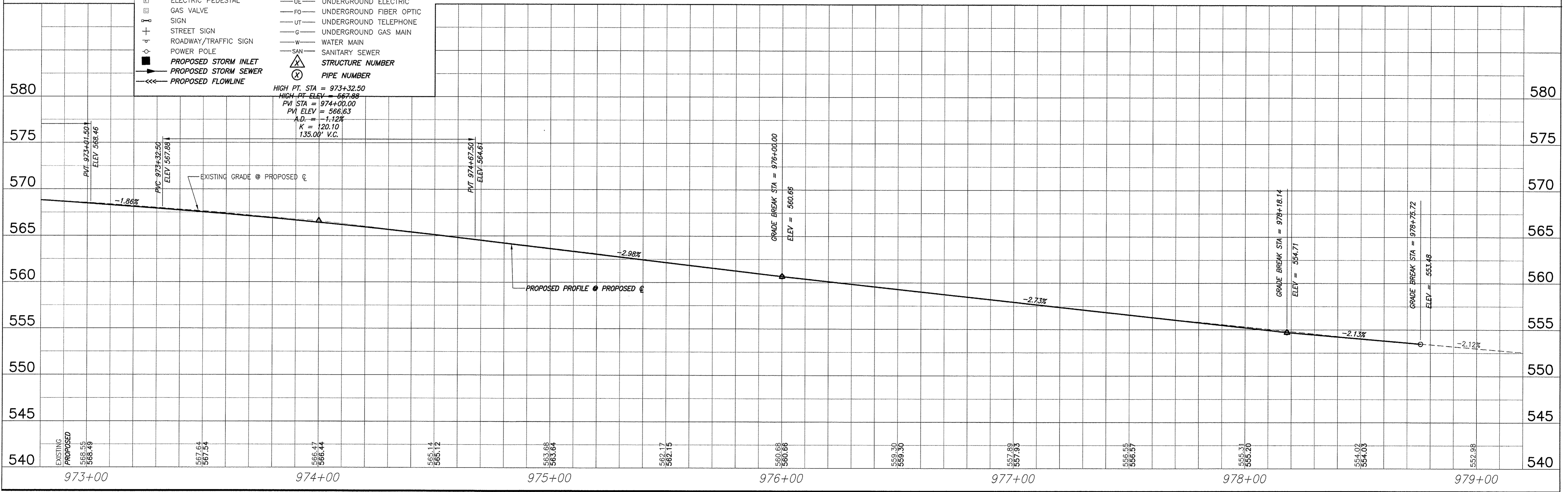
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	16
FEDERAL AID PROJECT			CONTRACT 97634	

BENCHMARK DATA
 TBM 2/4/09" C" - TOP OF FLANGE BOLT BETWEEN "MUELLER" ON FIRE HYDRANT, ON SOUTH SIDE MILBURN SCHOOL ROAD; NORTHWEST CORNER OF MILBURN ESTATES SUBDIVISION. ELEV. 562.41

NOTES:
 TRANSITION FROM 33'-9" WIDTH, LT. TO 34'-2" WIDTH, LT. (EXISTING FLAG TO C), STA. 972+56.75 TO STA. 974+08.76 LT.
 TRANSITION FROM EXISTING CURB AND GUTTER TO PROPOSED CURB AND GUTTER, STA. 974+08.85 TO STA. 974+20.40 LT.
 TRANSITION FROM 33'-4" WIDTH, LT. TO 21'-2" WIDTH, LT. (FLAG OF CURB), STA. 974+08.76 TO STA. 976+08.71 LT.
 TRANSITION FROM 21'-2" LANE WIDTH, LT. TO 17'-0" LANE WIDTH, LT. (FLAG OF CURB), STA. 976+08.71 TO STA. 978+75.72 LT.
 TRANSITION FROM 15' LANE WIDTH, RT. TO 13' LANE WIDTH, RT. (FLAG OF CURB TO C), STA. 976+08.71 TO STA. 978+75.72 LT.

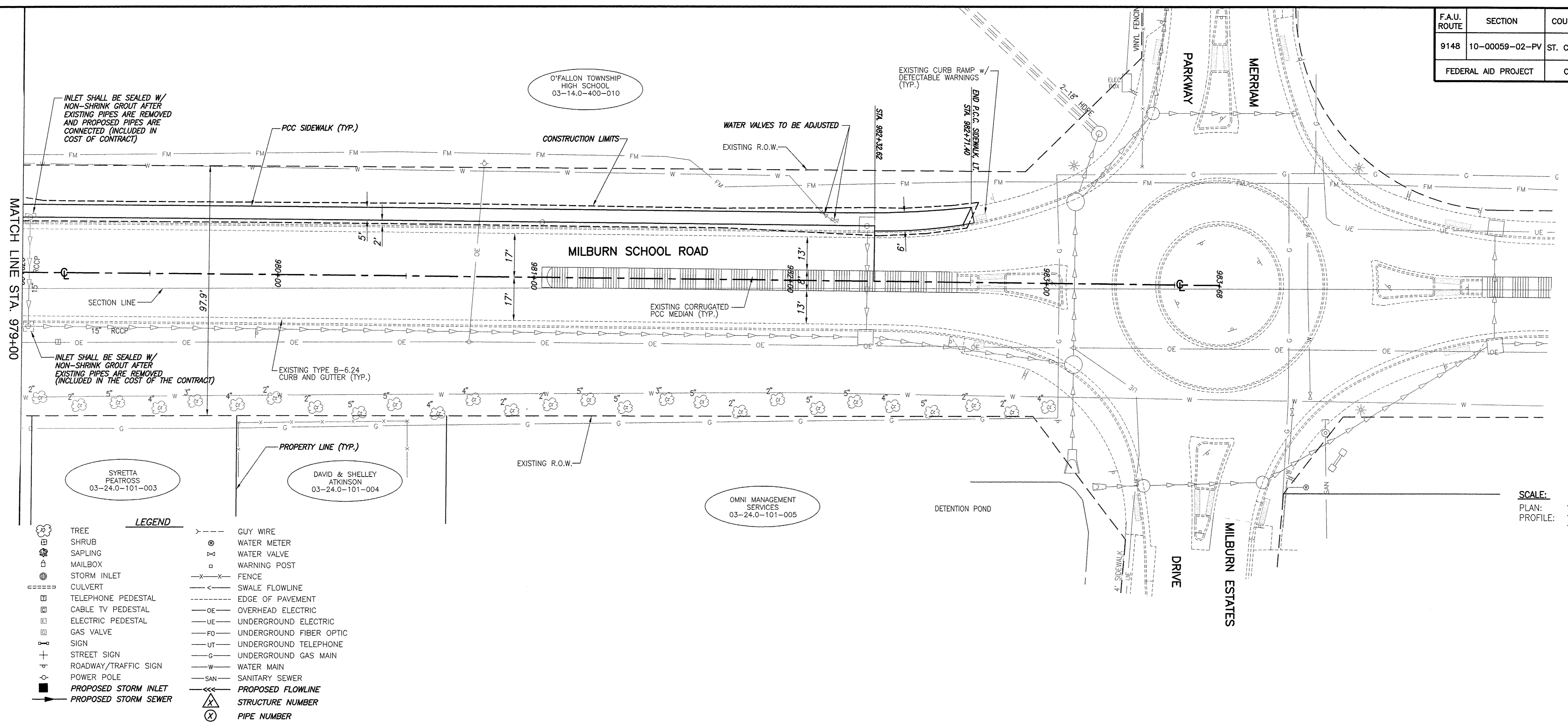


- LEGEND**
- TREE
 - SHRUB
 - SAPLING
 - MAILBOX
 - STORM INLET
 - CULVERT
 - TELEPHONE PEDESTAL
 - CABLE TV PEDESTAL
 - ELECTRIC PEDESTAL
 - GAS VALVE
 - SIGN
 - STREET SIGN
 - ROADWAY/TRAFFIC SIGN
 - POWER POLE
 - PROPOSED STORM INLET
 - PROPOSED STORM SEWER
 - PROPOSED FLOWLINE
 - GUY WIRE
 - WATER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



ROADWAY PLAN AND PROFILE MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

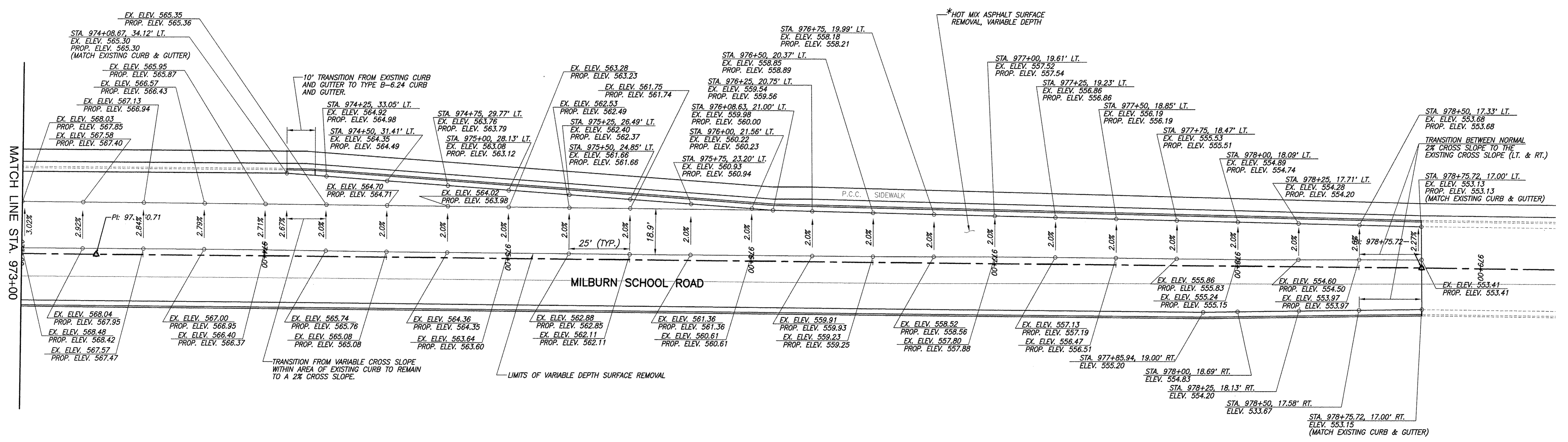
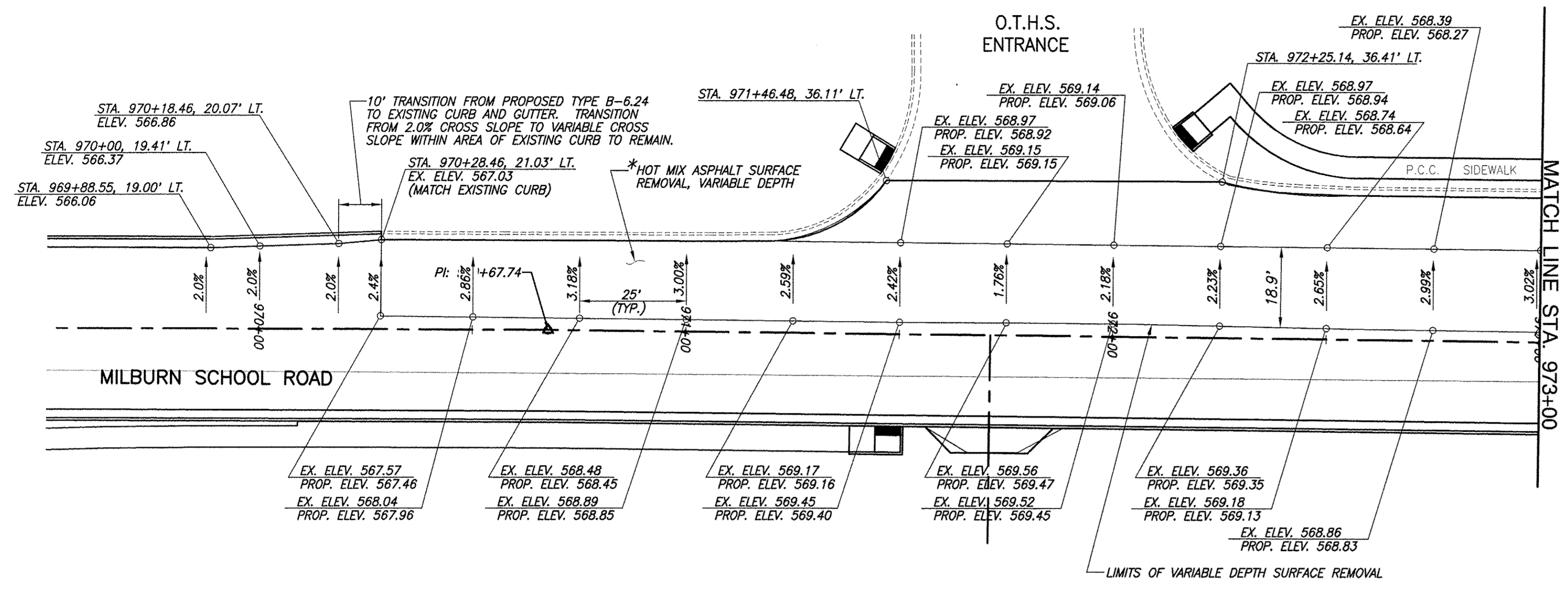
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	17
FEDERAL AID PROJECT			CONTRACT 97634	



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

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

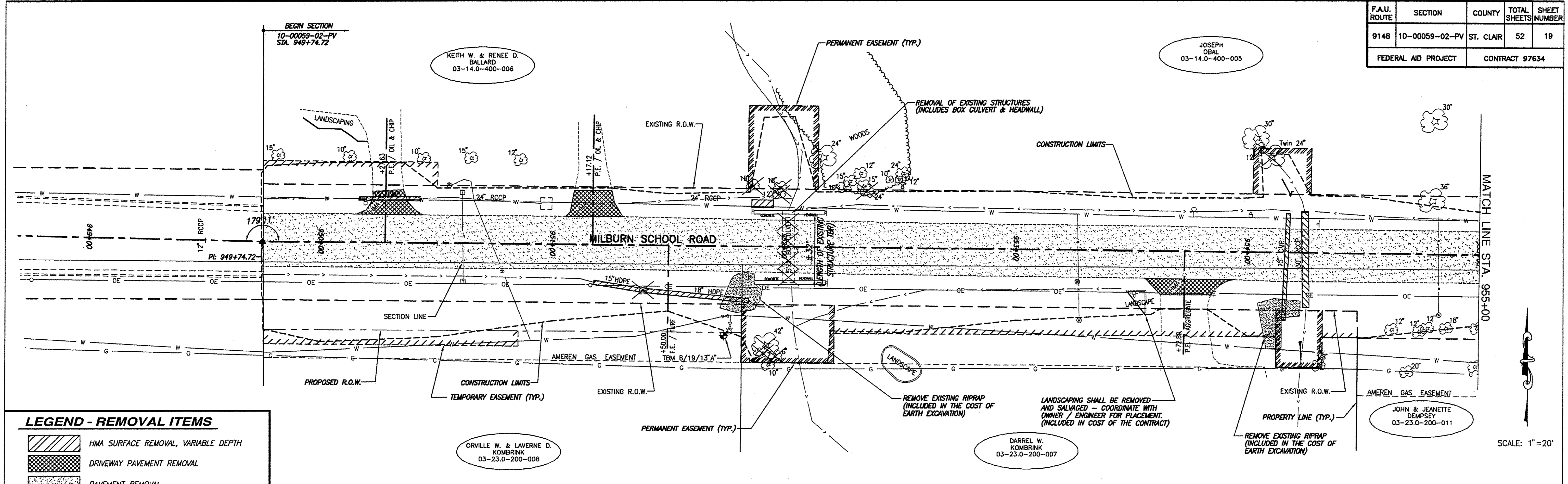
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	18
FEDERAL AID PROJECT		CONTRACT 97634		



SCALE:
PLAN: 1"=20'

*REMOVE THE EXISTING HMA SURFACE COURSE TO ALLOW FOR A FINAL 2" LIFT OF HMA PAVEMENT TO THE ELEVATION SHOWN.

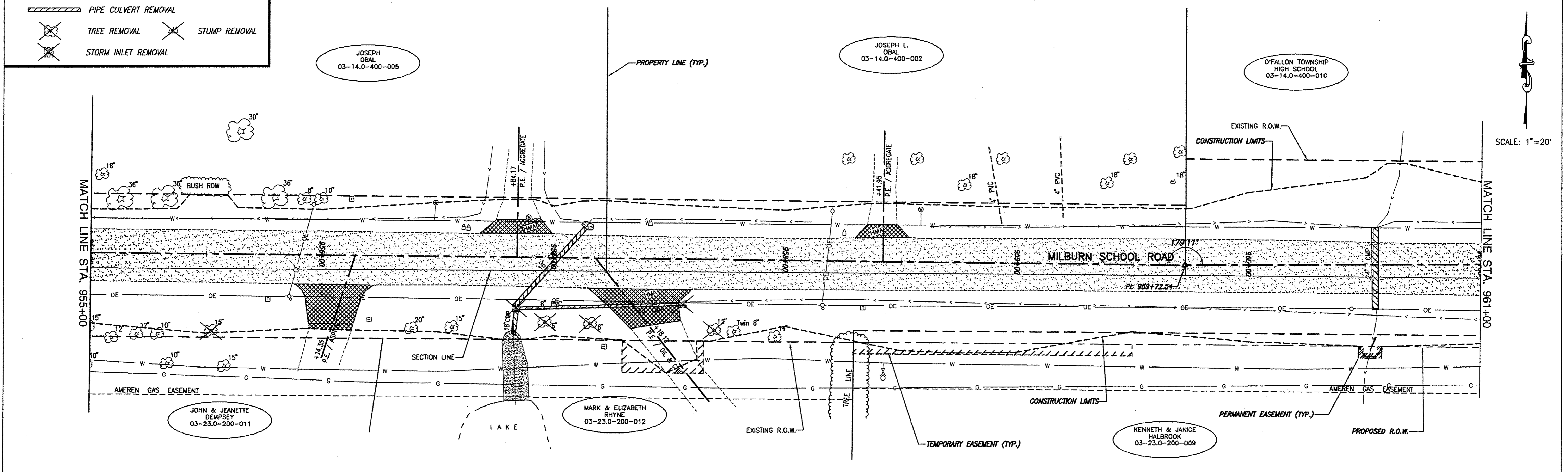
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9148	10-00059-02-PV	ST. CLAIR	52	19
FEDERAL AID PROJECT		CONTRACT 97634		



LEGEND - REMOVAL ITEMS

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

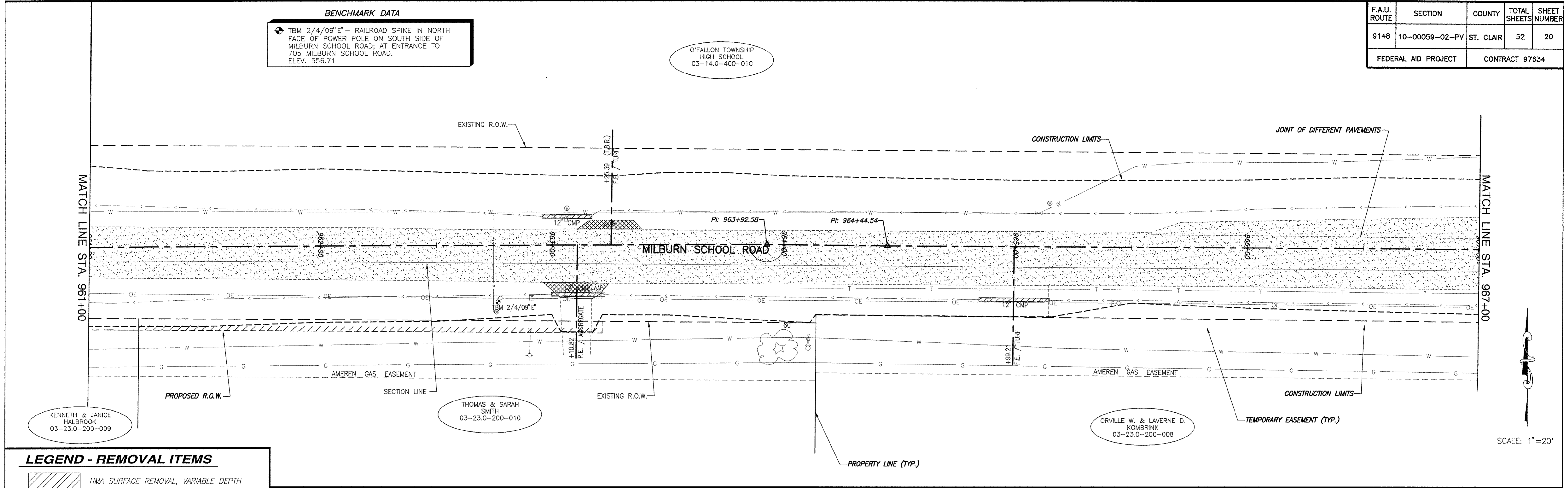
SCALE: 1" = 20'



SCALE: 1" = 20'

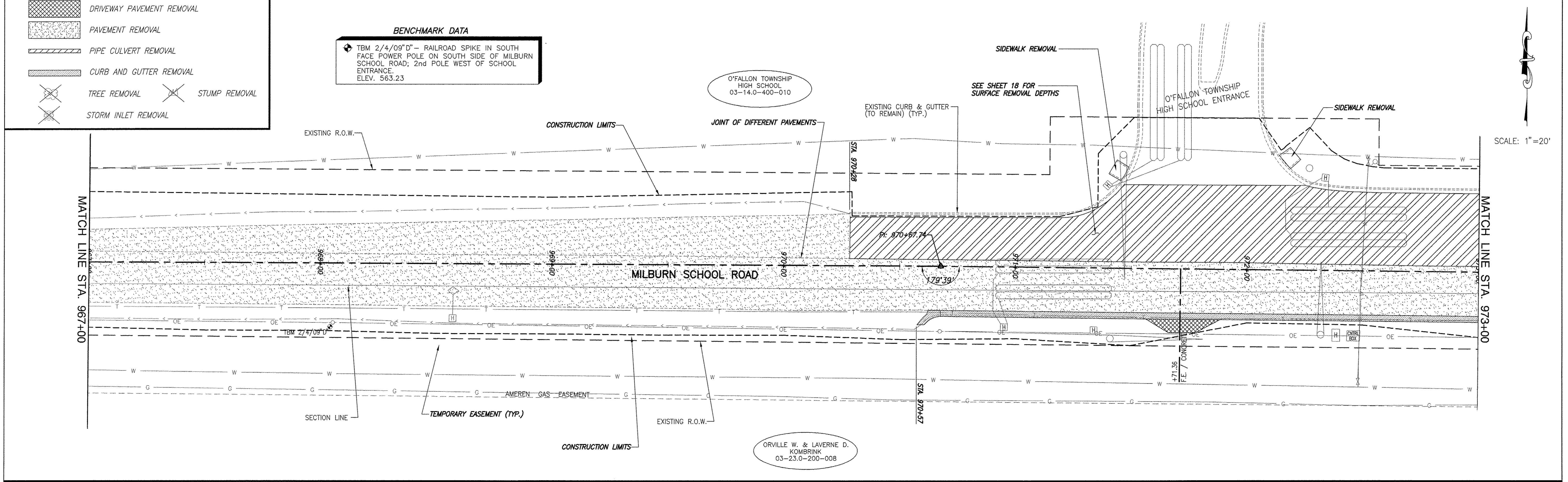
REMOVAL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	20
FEDERAL AID PROJECT			CONTRACT 97634	



LEGEND - REMOVAL ITEMS

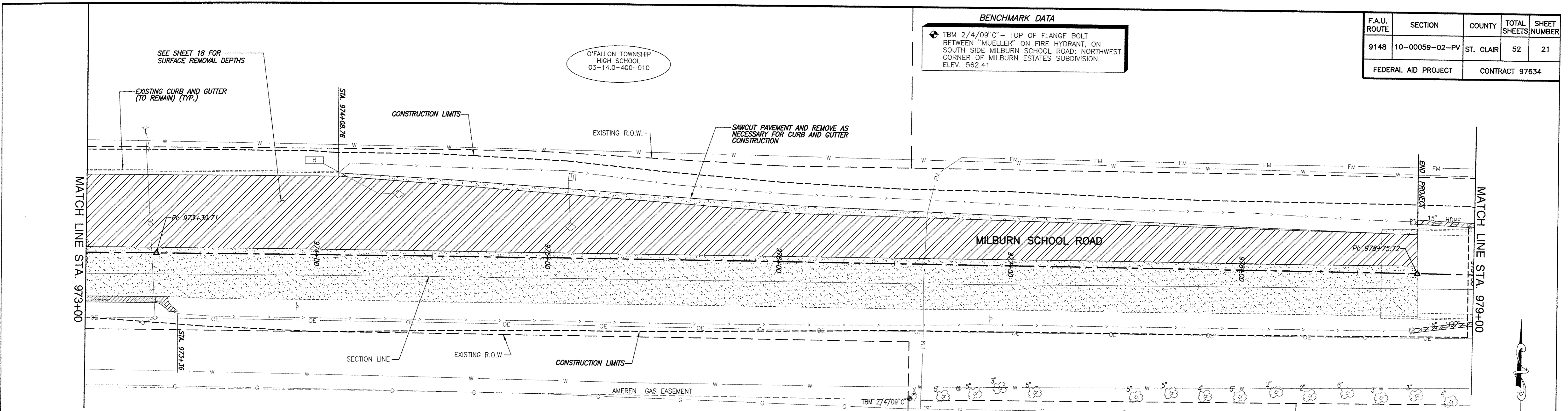
- HMA SURFACE REMOVAL, VARIABLE DEPTH
- DRIVEWAY PAVEMENT REMOVAL
- PAVEMENT REMOVAL
- PIPE CULVERT REMOVAL
- CURB AND GUTTER REMOVAL
- TREE REMOVAL
- STUMP REMOVAL
- STORM INLET REMOVAL



**REMOVAL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS**

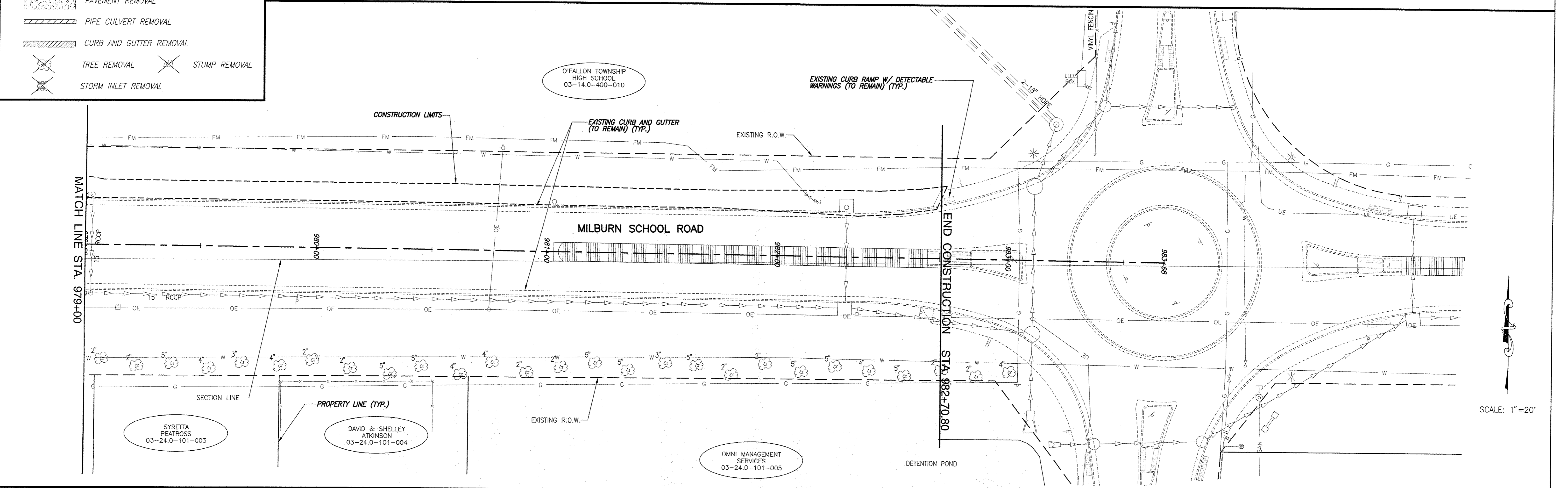
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	21
FEDERAL AID PROJECT			CONTRACT 97634	

BENCHMARK DATA
 TBM 2/4/09" - TOP OF FLANGE BOLT BETWEEN "MUELLER" ON FIRE HYDRANT, ON SOUTH SIDE MILBURN SCHOOL ROAD; NORTHWEST CORNER OF MILBURN ESTATES SUBDIVISION. ELEV. 562.41



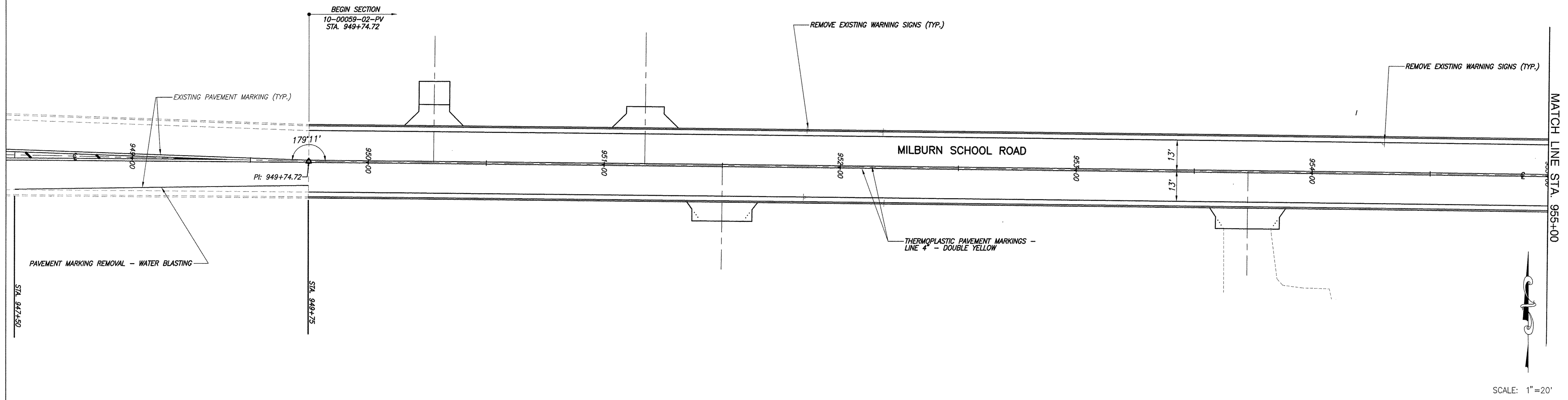
LEGEND - REMOVAL ITEMS

- HMA SURFACE REMOVAL, VARIABLE DEPTH
- DRIVEWAY PAVEMENT REMOVAL
- PAVEMENT REMOVAL
- PIPE CULVERT REMOVAL
- CURB AND GUTTER REMOVAL
- TREE REMOVAL
- STUMP REMOVAL
- STORM INLET REMOVAL

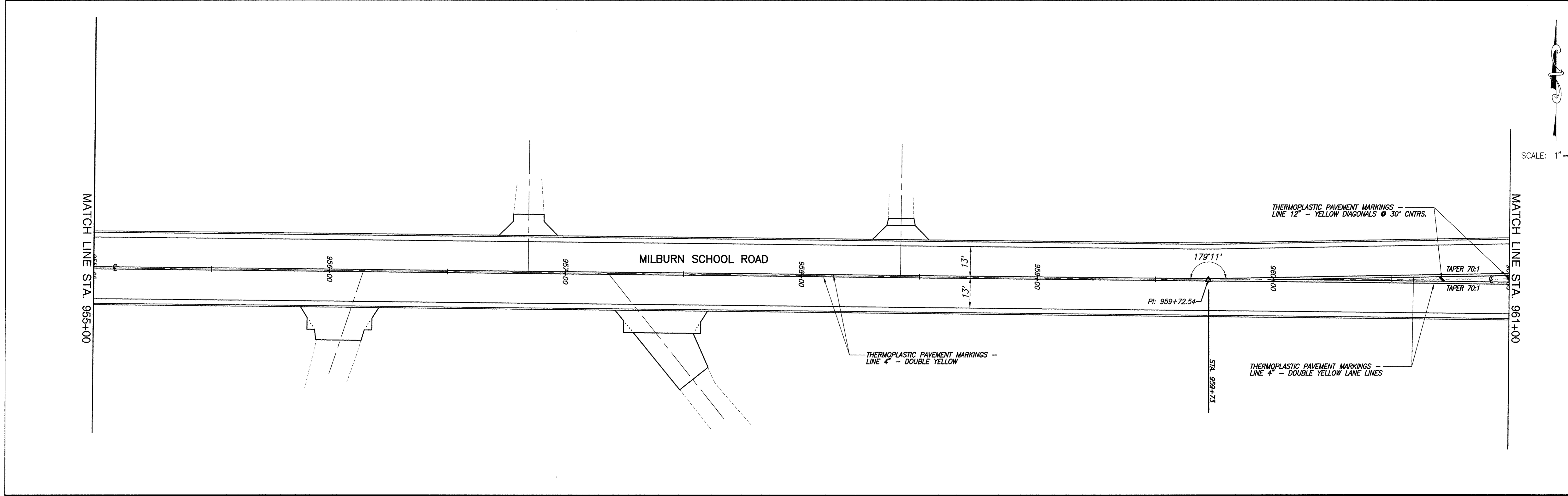


REMOVAL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS
 ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	22
FEDERAL AID PROJECT		CONTRACT 97634		

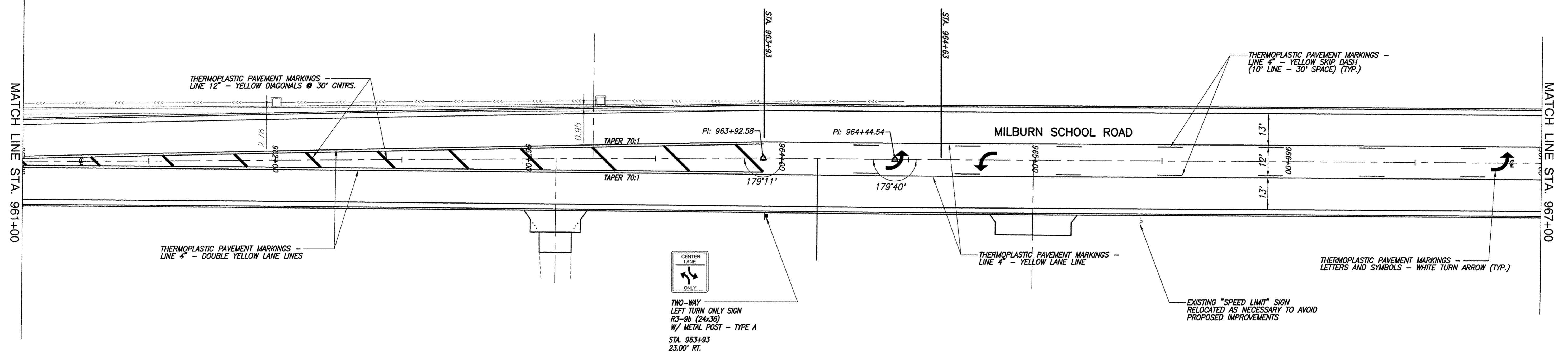


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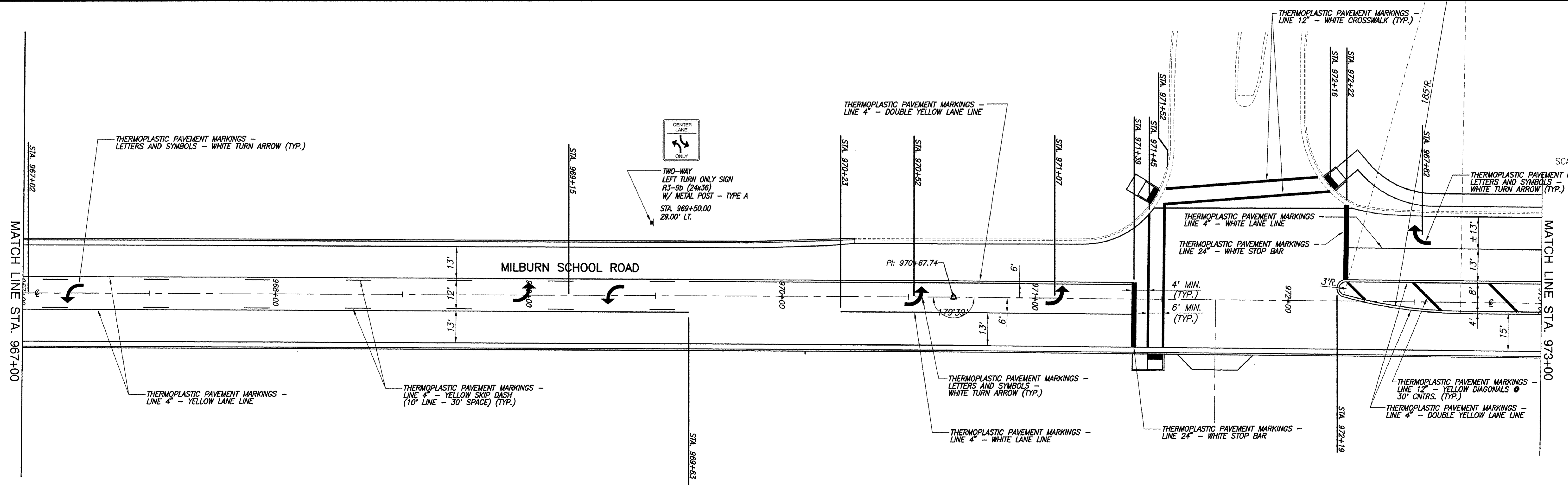


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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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FEDERAL AID PROJECT			CONTRACT 97634	



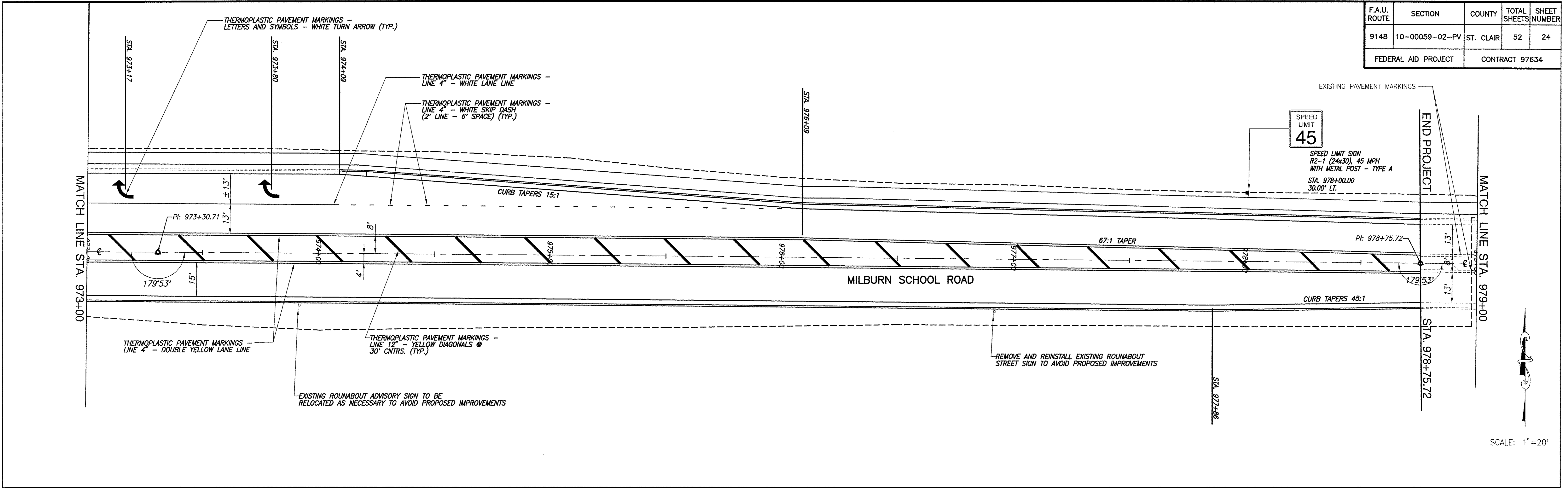
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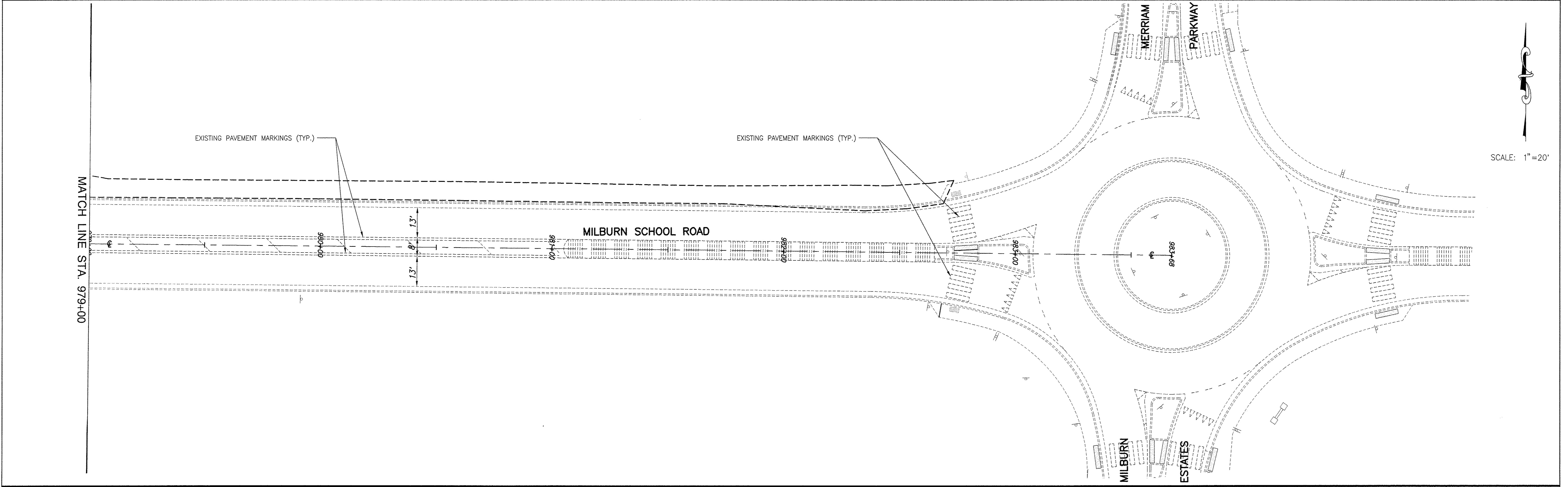
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PAVEMENT MARKING AND SIGNING PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	24
FEDERAL AID PROJECT			CONTRACT 97634	



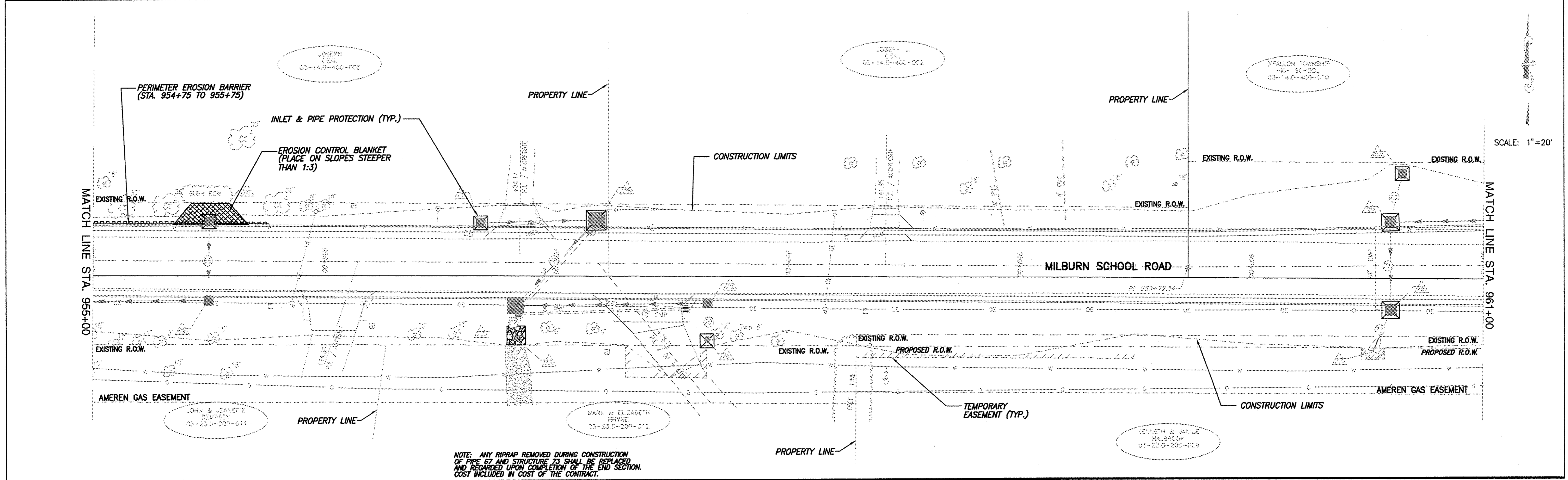
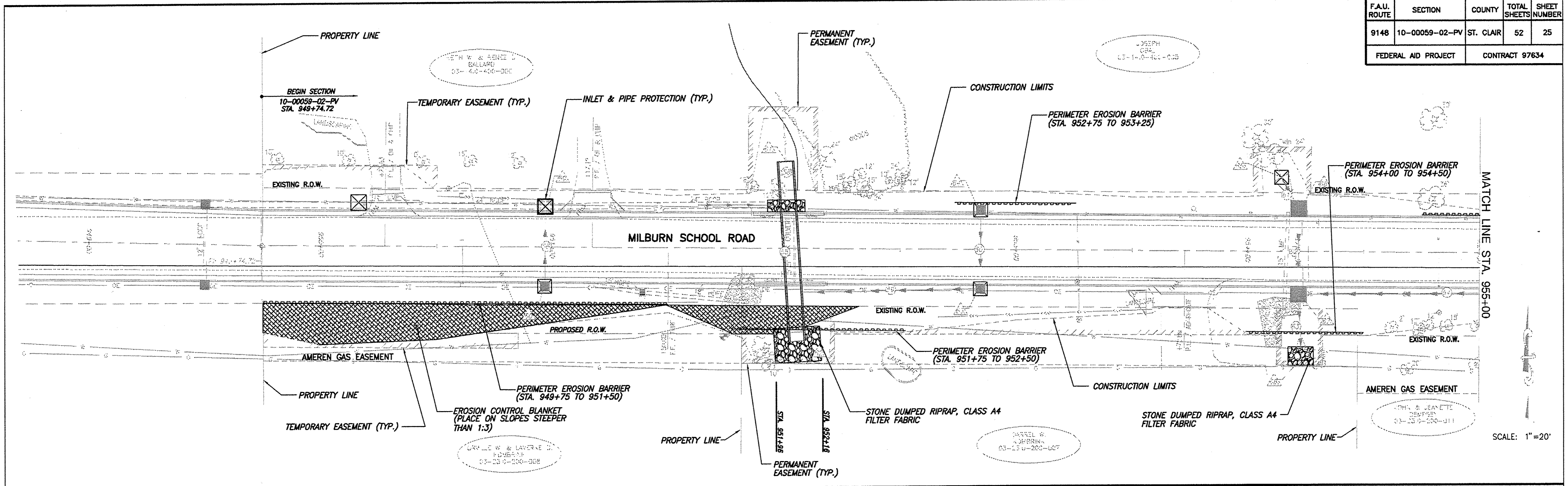
SCALE: 1" = 20'



SCALE: 1" = 20'

PAVEMENT MARKING AND SIGNING PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

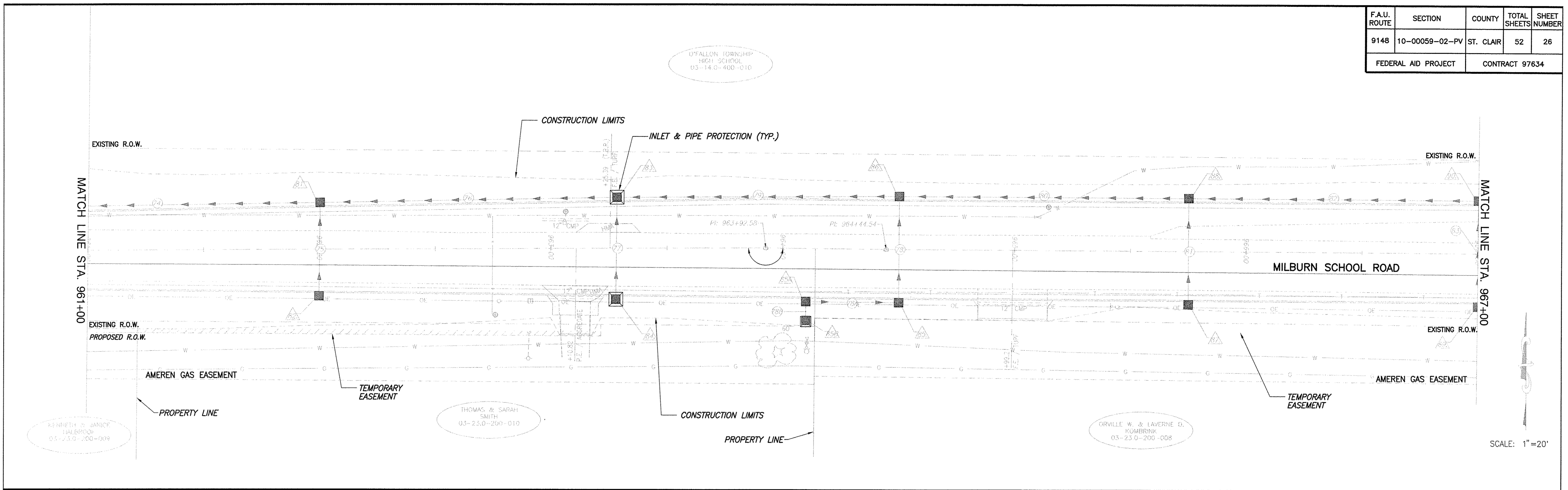
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	25
FEDERAL AID PROJECT		CONTRACT 97634		



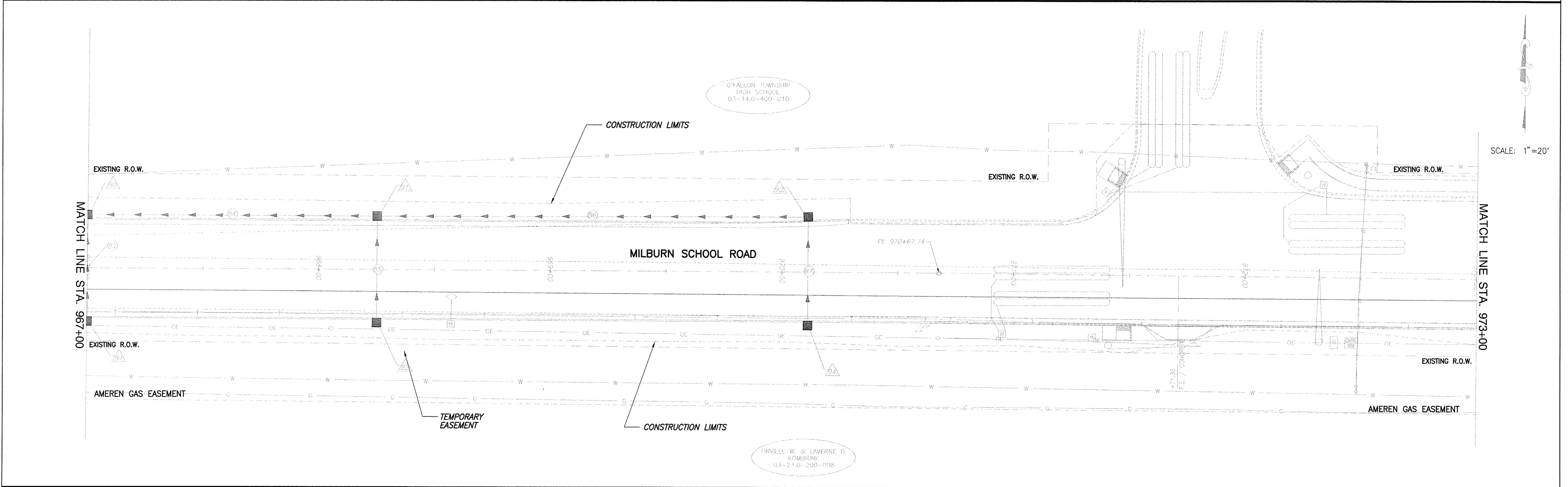
NOTE: ANY RIPRAP REMOVED DURING CONSTRUCTION OF PIPE 67 AND STRUCTURE 73 SHALL BE REPLACED AND REPAIRED UPON COMPLETION OF THE END SECTION. COST INCLUDED IN COST OF THE CONTRACT.

EROSION AND SEDIMENT CONTROL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	26
FEDERAL AID PROJECT			CONTRACT 97634	



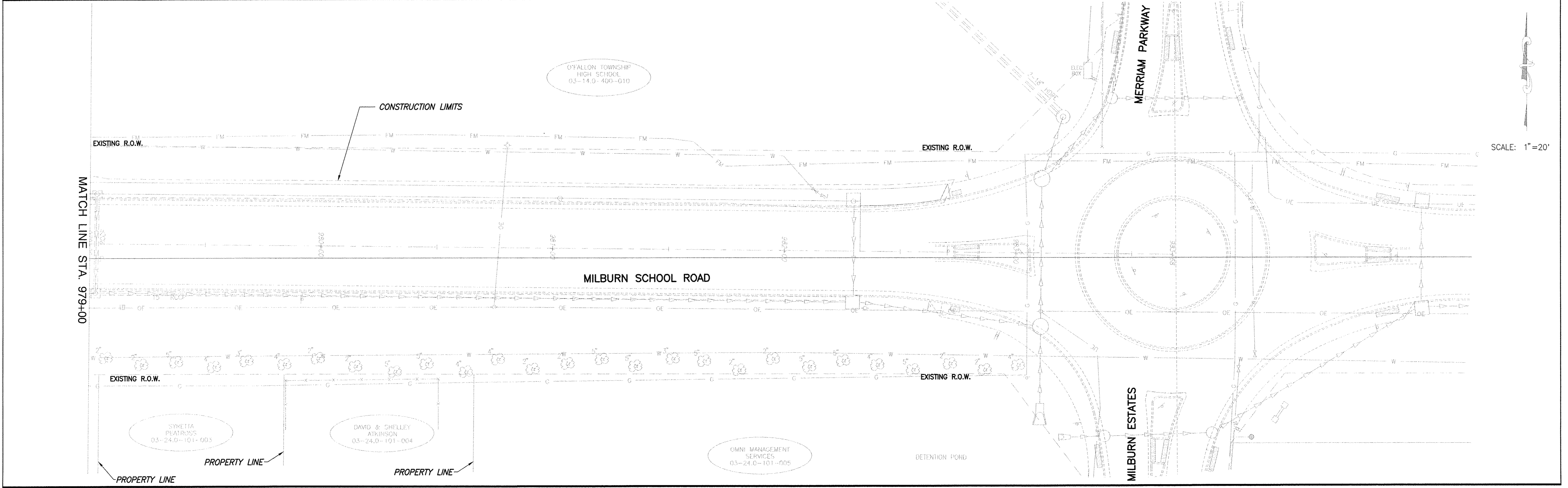
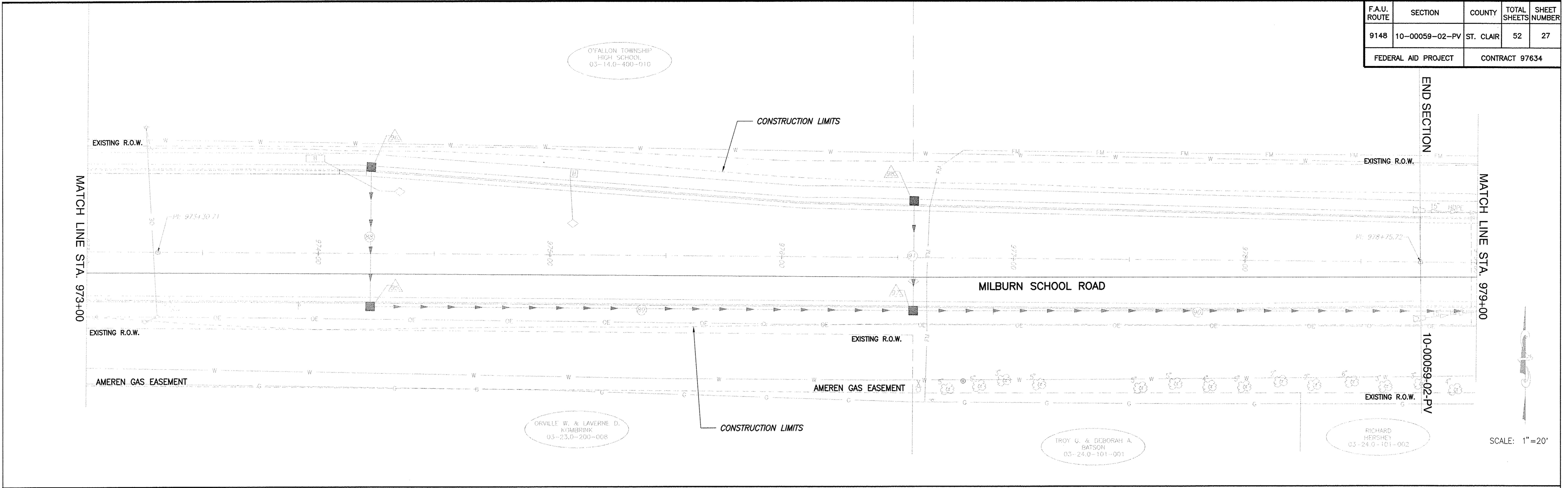
SCALE: 1"=20'



SCALE: 1"=20'

EROSION AND SEDIMENT CONTROL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	27
FEDERAL AID PROJECT			CONTRACT 97634	



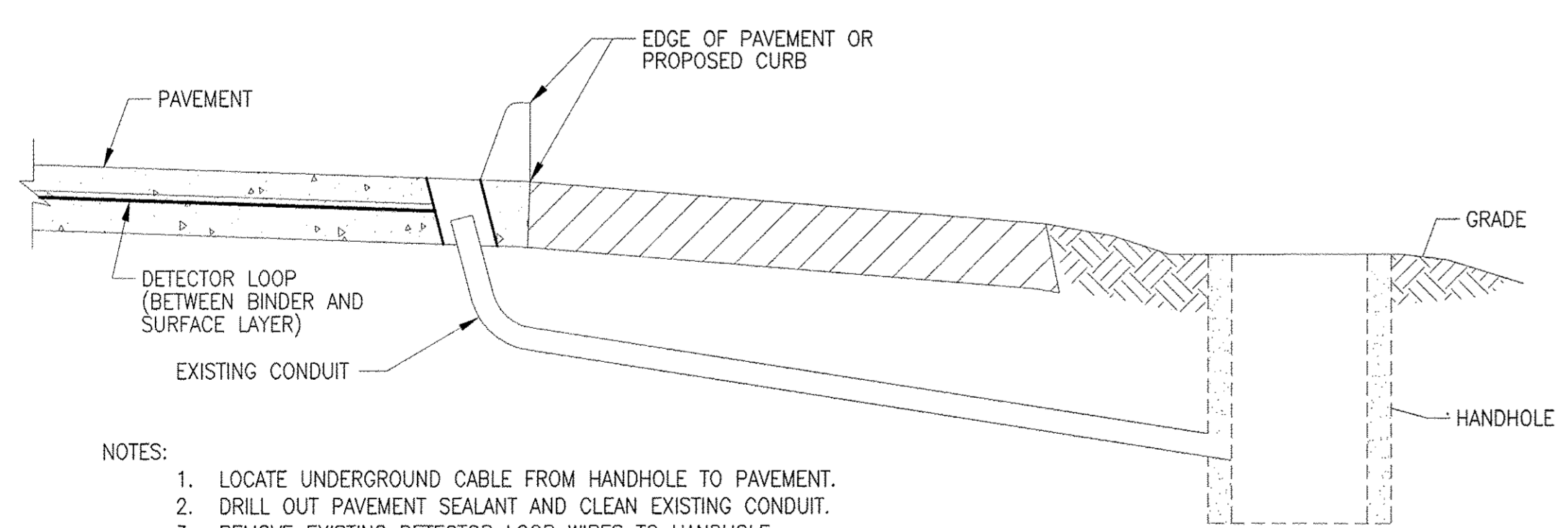
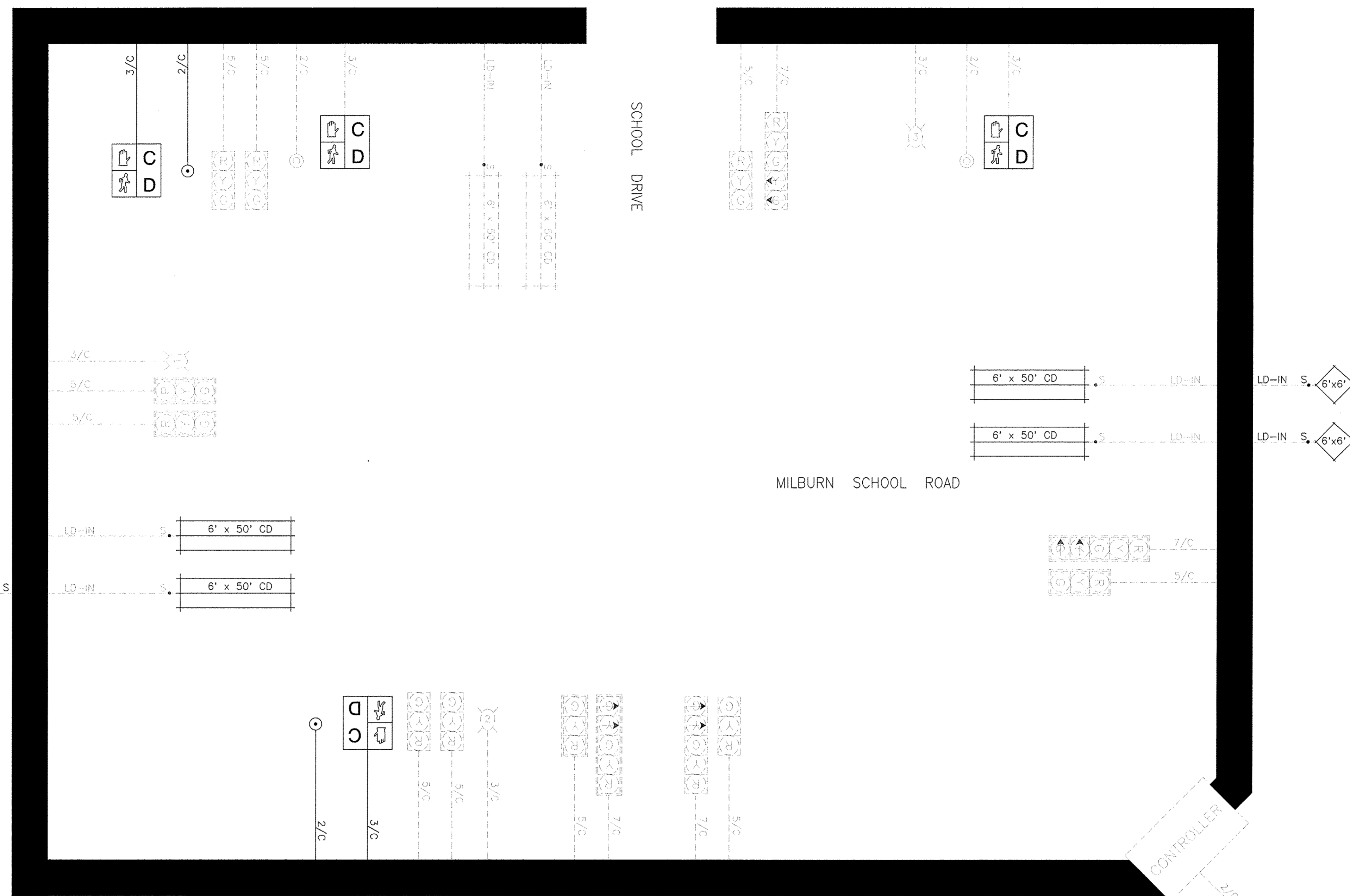
EROSION AND SEDIMENT CONTROL PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	28
FEDERAL AID PROJECT			CONTRACT 97634	

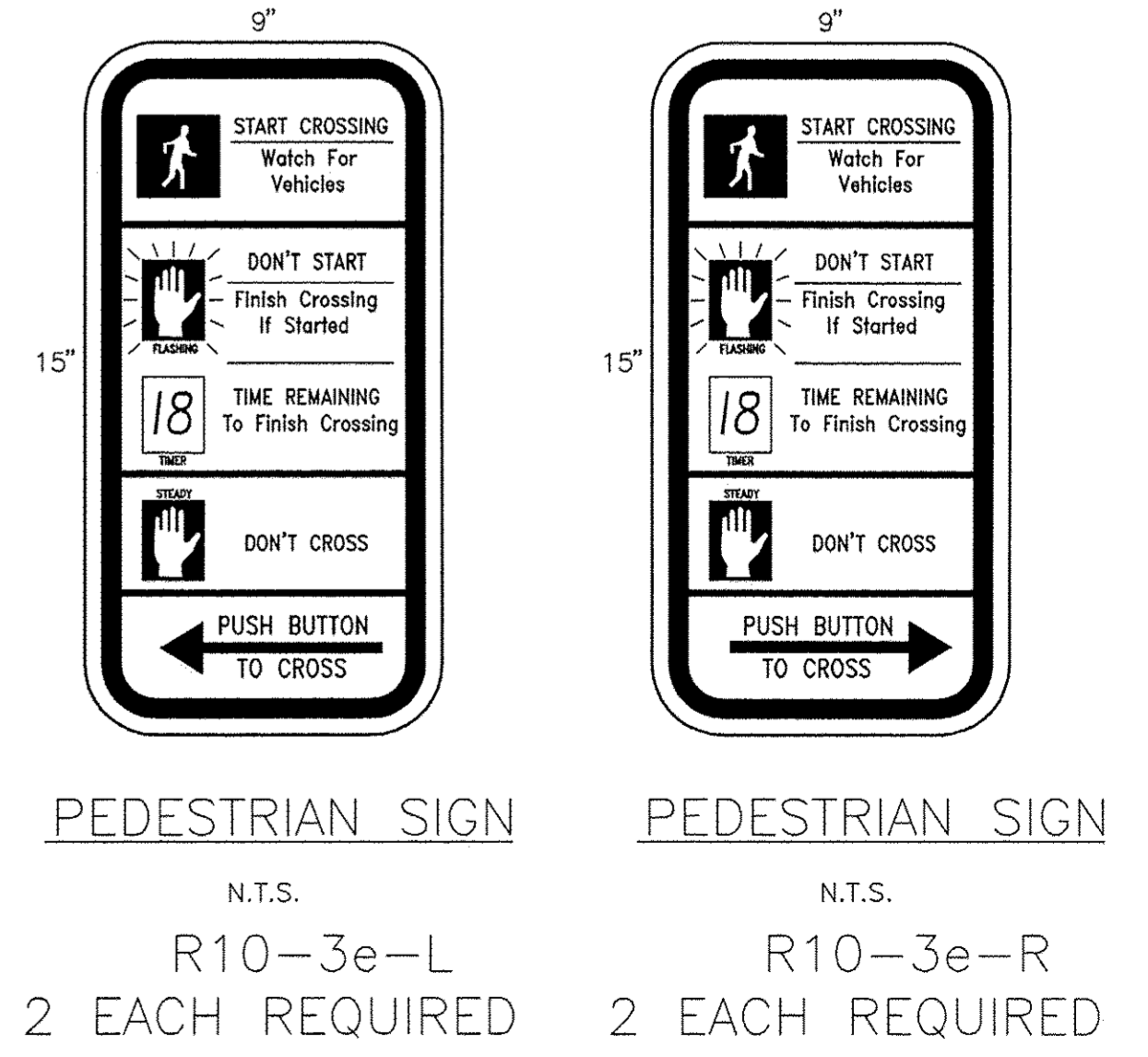
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- CD CALL DELAY
- COO CALL CARRY OVER
- [Symbol] SERVICE INSTALLATION
- [Symbol] TRAFFIC SIGNAL HEAD
- [Symbol] TRAFFIC SIGNAL HEAD WITH BACKPLATE
- [Symbol] LOOP DETECTOR



- NOTES:
1. LOCATE UNDERGROUND CABLE FROM HANDHOLE TO PAVEMENT.
 2. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
 3. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE.
 4. CONDUIT MAY REQUIRE CUTTING TO MATCH NEW CURB AND GUTTER GRADE.
 5. INSTALL LOOP LEAD-IN CONDUCTORS IN EXISTING CONDUIT.
 6. SPLICE NEW DETECTOR LOOP LEAD-IN CONDUCTORS TO EXISTING LEAD-IN CABLE IN HANDHOLE.
 7. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
- NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT".

**RE-USE EXISTING DETECTOR LOOP
LEAD-IN CABLE IN CONDUIT**



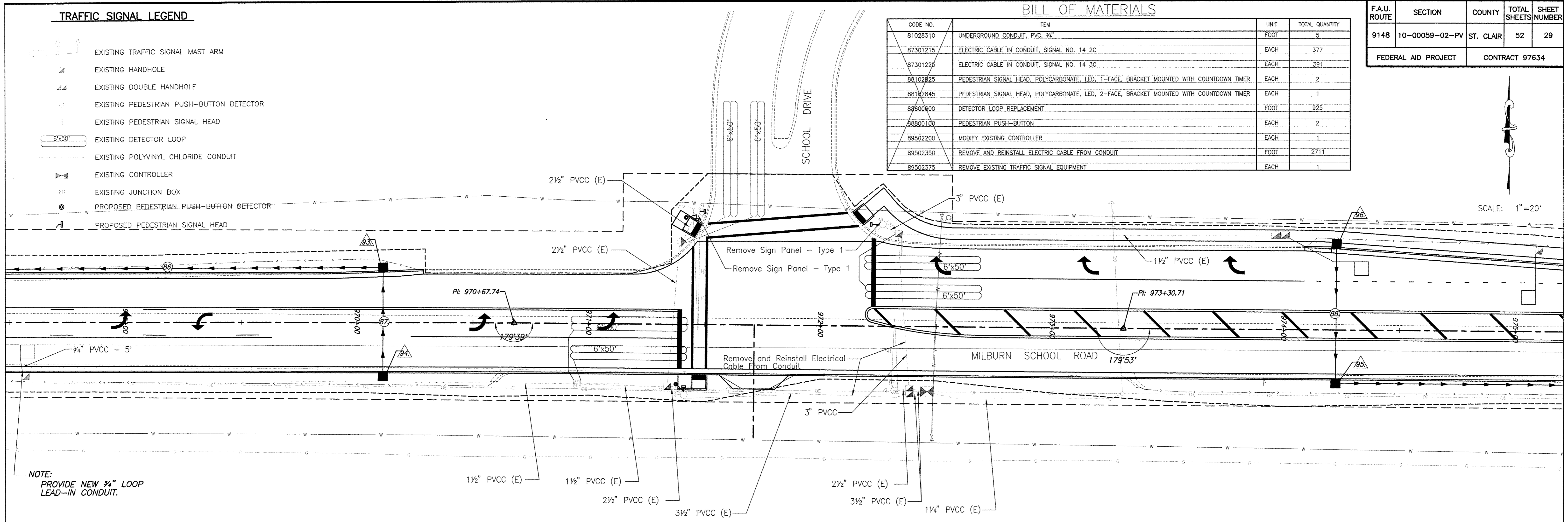
TRAFFIC SIGNAL LEGEND

- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING PEDESTRIAN PUSH-BUTTON DETECTOR
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING DETECTOR LOOP
- EXISTING POLYVINYL CHLORIDE CONDUIT
- EXISTING CONTROLLER
- EXISTING JUNCTION BOX
- PROPOSED PEDESTRIAN PUSH-BUTTON DETECTOR
- PROPOSED PEDESTRIAN SIGNAL HEAD

BILL OF MATERIALS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
81028310	UNDERGROUND CONDUIT, PVC, 3/4"	FOOT	5
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	EACH	377
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	EACH	391
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
89600600	DETECTOR LOOP REPLACEMENT	FOOT	925
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502350	REMOVE AND REINSTALL ELECTRICAL CABLE FROM CONDUIT	FOOT	2711
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	29
FEDERAL AID PROJECT		CONTRACT 97634		



NOTE: PROVIDE NEW 3/4" LOOP LEAD-IN CONDUIT.

DETECTOR LOOP REQUIREMENTS & CALCULATIONS

MILBURN SCHOOL ROAD AND SCHOOL DRIVE

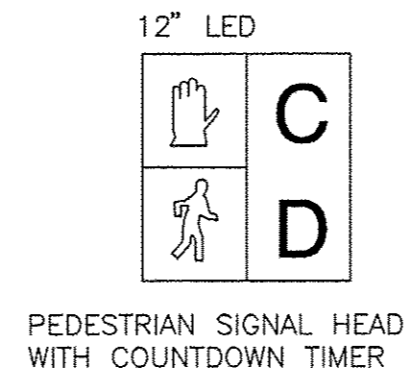
LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries	CALCULATED RESISTANCE ohms
EB LT CD	1	6' X 6'	3-6-3	830.4	2.6
EB THRU CD	6	6' X 50'	3-6-3	827.6	2.5
EB THRU CCO	6	6' X 6'	6	351.3	2.5
WB RIGHT CD	2	6' X 50'	3-6-3	809.2	2.1
WB THRU CD	2	6' X 50'	3-6-3	814.7	2.2
WB RIGHT CCO	2	6' X 6'	6	322.1	1.8
WB THRU CCO	2	6' X 6'	6	344.2	2.4

THE ABOVE VALUES ARE CALCULATION OF COMBINED LOOP & LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN ± 20% OF THE VALUES.

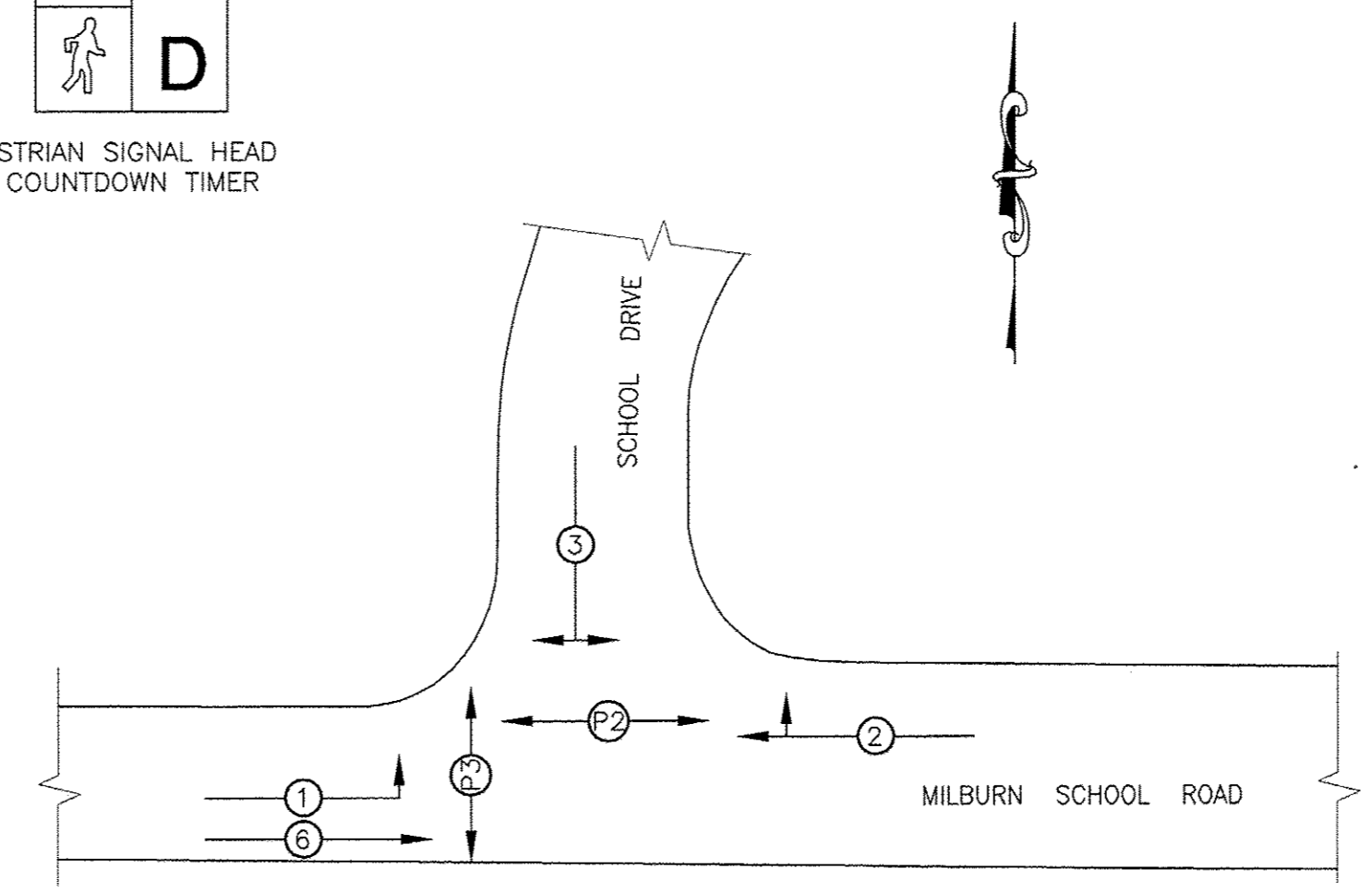
ELECTRICAL GENERAL NOTES

- UNLESS SPECIFIED, THE EXISTING DETECTOR LOOP CONDUIT FROM PAVEMENT TO THE HANDHOLE WILL BE RE-USED FOR THE REPLACED DETECTOR LOOP. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE EXISTING CONDUIT DURING THE CONSTRUCTION OPERATION. SHOULD ANY DAMAGE OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, REPAIRS WILL BE MADE TO THE SATISFACTION OF THE ENGINEER AND WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FULL RING TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN THE HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.

TRAFFIC SIGNAL FACES



PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER



PHASE DESIGNATION DIAGRAM

EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT				NOT USED	NOT USED		NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	6	6	NONE			1 OR 2		

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT				NOT USED	NOT USED		NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	6	6	NONE			1 OR 2		

* PEDESTRIAN MOVEMENT ON ACTUATION ONLY.

EXISTING STRUCTURE: THE EXISTING STRUCTURE CONSISTS OF A 5'x5' CAST-IN-PLACE CONCRETE BOX CULVERT WITH HEADWALLS. THE EXISTING STRUCTURE SHALL BE REMOVED AND REPLACED WITH A PRECAST SINGLE BARREL 6'x5' BOX CULVERT UTILIZING TOTAL ROAD CLOSURE.

GENERAL NOTES

THIS BOX CULVERT HAS A MAXIMUM FILL HEIGHT OF 3'-9". PRECAST CONCRETE BOX CULVERT SECTIONS AND PRECAST END SECTIONS SHALL BE ACCORDING TO ASTM C 1577, EXCEPT THAT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS WITH EXCEPTION OF "GRADATION."

POROUS GRANULAR EMBANKMENT SHALL BE FILLED TO EXISTING SURFACE AROUND THE BOX WITHIN THE LIMITS OF THE PROPOSED ROADWAY.

THE LAYOUT OF SLOPE PROTECTION MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CAST-IN-PLACE TOEWALL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR "BOX CULVERTS END SECTION". APPROXIMATELY 0.8 CU. YD. OF CONCRETE WILL BE NEEDED PER TOEWALL.

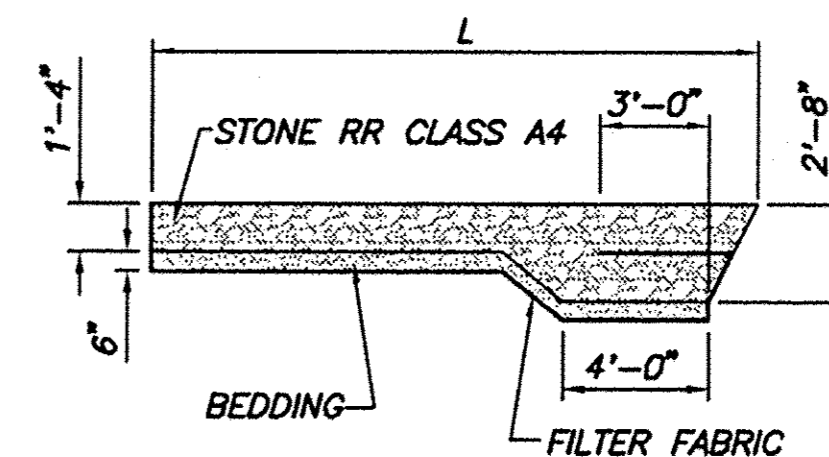
PRIOR TO RESURFACING, THE TOP 8" OF POROUS GRANULAR EMBANKMENT SHALL BE REMOVED. REMOVAL IS INCLUDED IN THE COST OF THE CONTRACT. GRANULAR EMBANKMENT MAY BE USED ELSEWHERE IN AGGREGATE APPLICATIONS AS DIRECTED BY THE ENGINEER.

WATER INFORMATION TABLE

DRAINAGE AREA = 0.15 SQ. MI.		EXISTING LOW GRADE ELEVATION = 552.95 FT. @ STA. 952+50.00									
		PROPOSED LOW GRADE ELEVATION = 552.63 FT. @ STA. 952+84.62									
FLOOD YEAR	FREQUENCY	DISCHARGE (CFS)		WATERWAY OPENING (SQ. FT.)		NATURAL H.W.E.		HEAD (FT.)		HEADWATER ELEV.	
		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
DESIGN	50	68.5	73.7	15.9	17.4	548.49				547.18	546.93
BASE	100	81.2	86.1	17.8	19.2	549.01				547.55	547.23

BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL OF EXISTING STRUCTURES	EACH	1
STRUCTURE EXCAVATION	CU. YD.	445
BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
PRECAST CONCRETE BOX CULVERT 6'x5'	FOOT	66
POROUS GRANULAR EMBANKMENT	CU. YD.	420

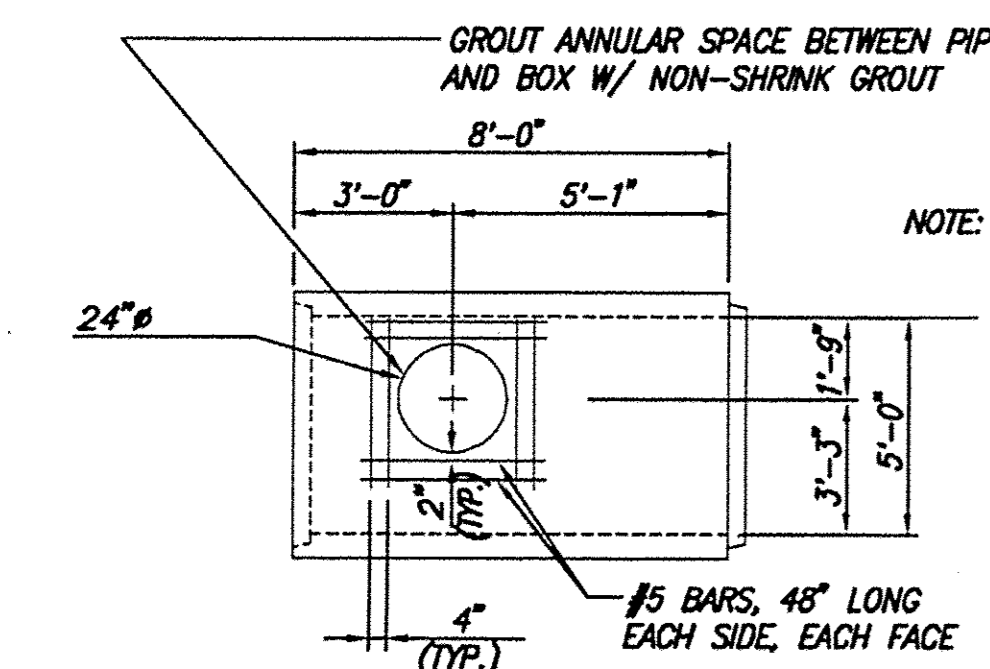
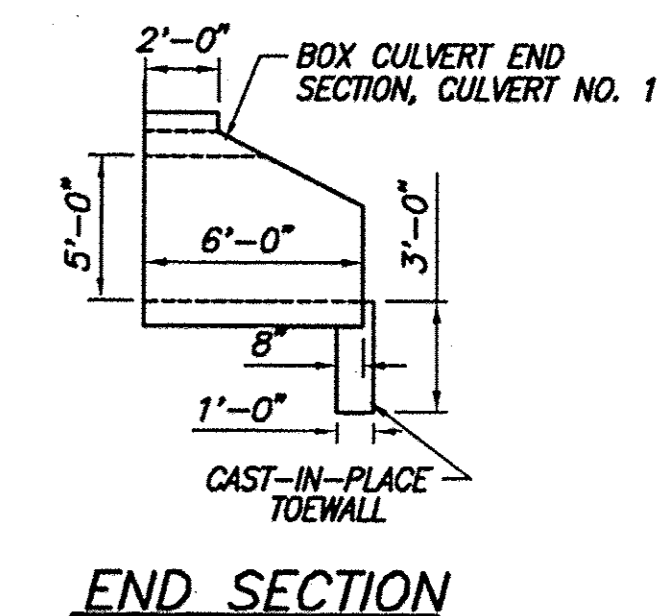


SECTION A'-A'
NOTE: SEE EROSION CONTROL PLAN AND SCHEDULES FOR ADDITIONAL SIZES AND DIMENSIONS.

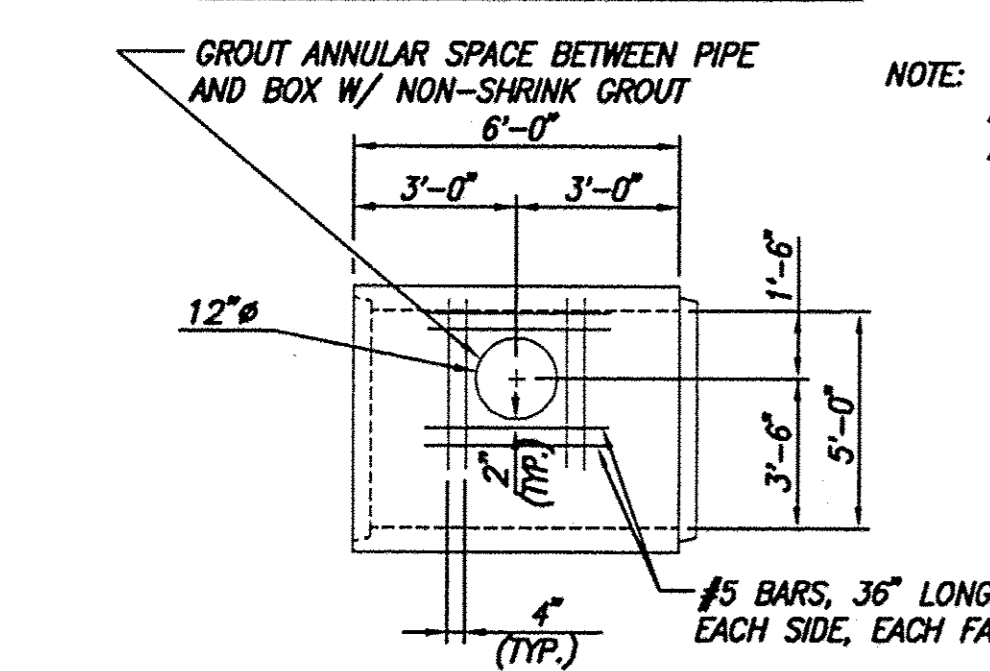
PRECAST BOX CULVERT SCHEDULE

STATION	SIZE (SPAN X HEIGHT)	SKEW	DESIGN FILL (FT.)	
			MINIMUM	MAXIMUM
952+02.62	6'x5'	4'6"	2'-4"	3'-9"

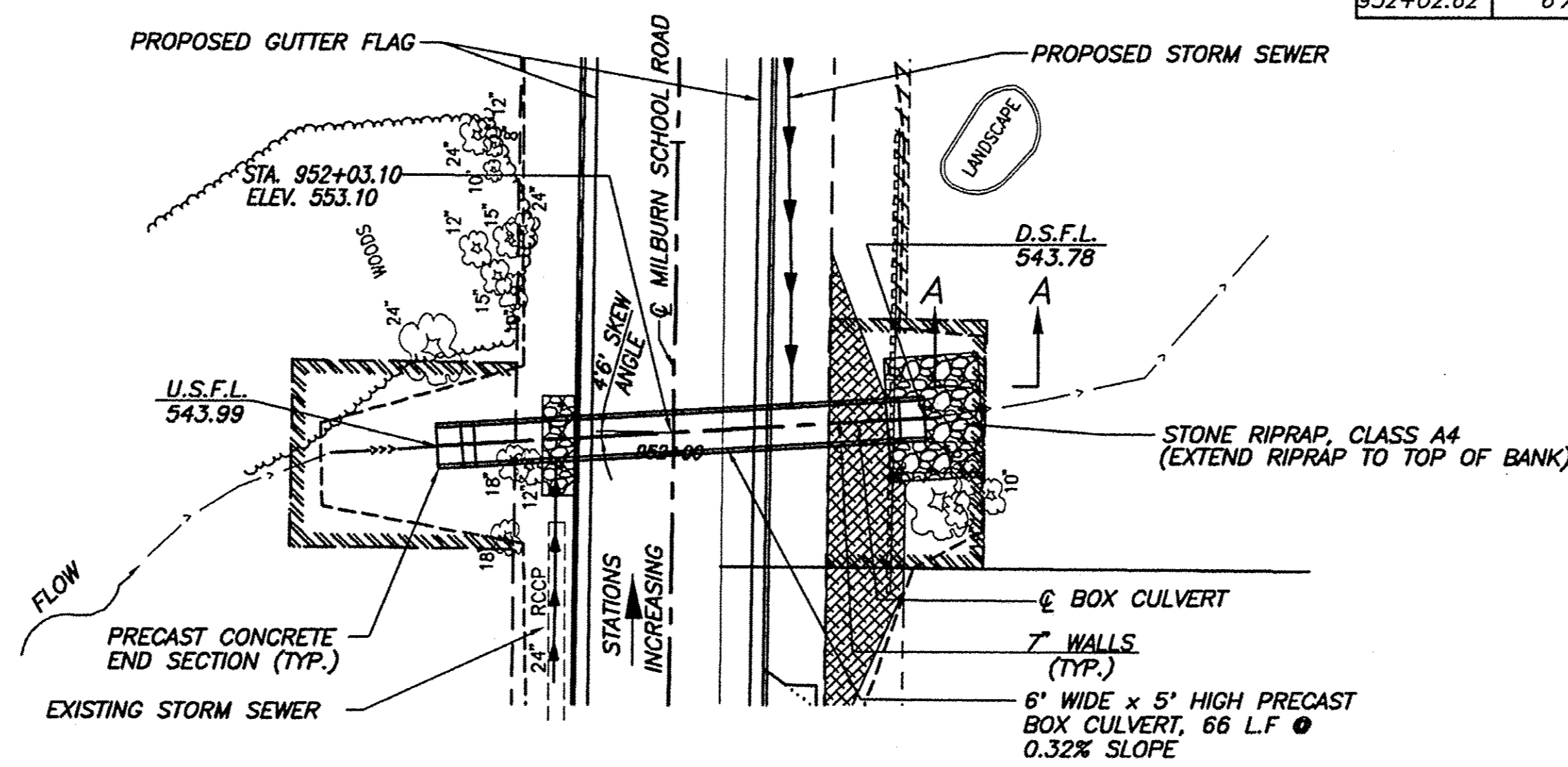
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	30
FEDERAL AID PROJECT			CONTRACT 97634	



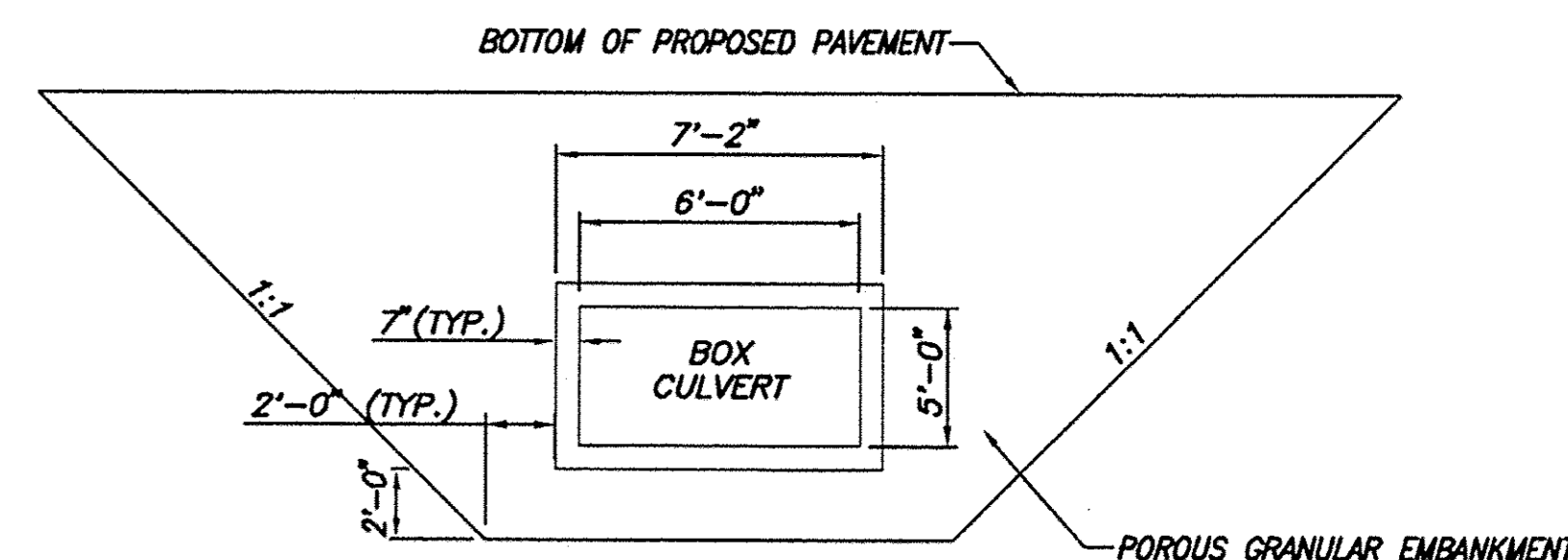
NOTE: 18" OF BARREL SIZE SHOULD BE ADJUSTED TO ACCOUNT FOR PIPE CONNECTION.



NOTE: THE REINFORCEMENT WILL BE THE SAME DESIGN AS THE TYP. BOX CULVERT SECTIONS WITH THE ADDITION OF THE REBAR AROUND THE HOLE.



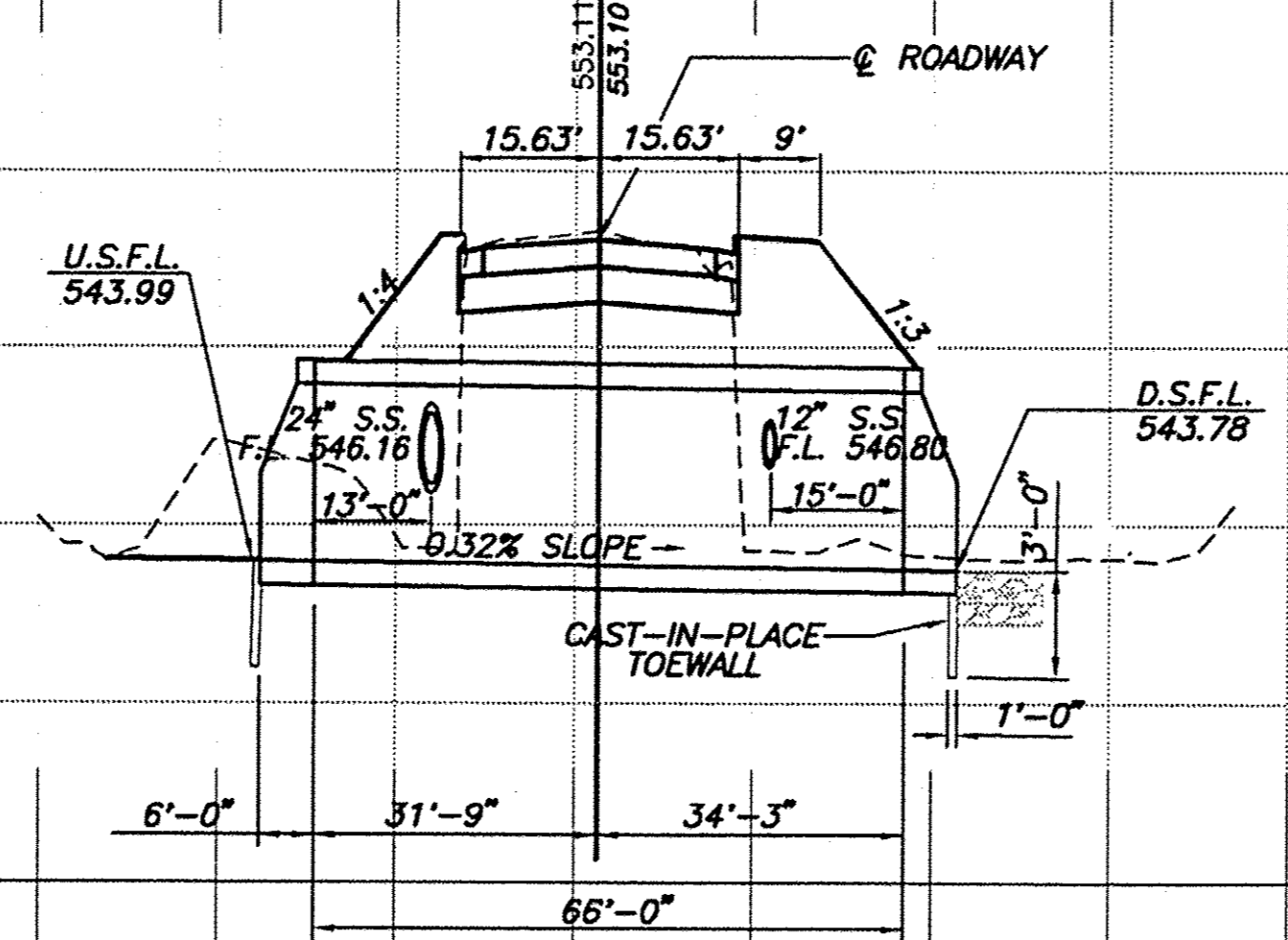
PLAN
N.T.S.



SECTION THRU BARREL

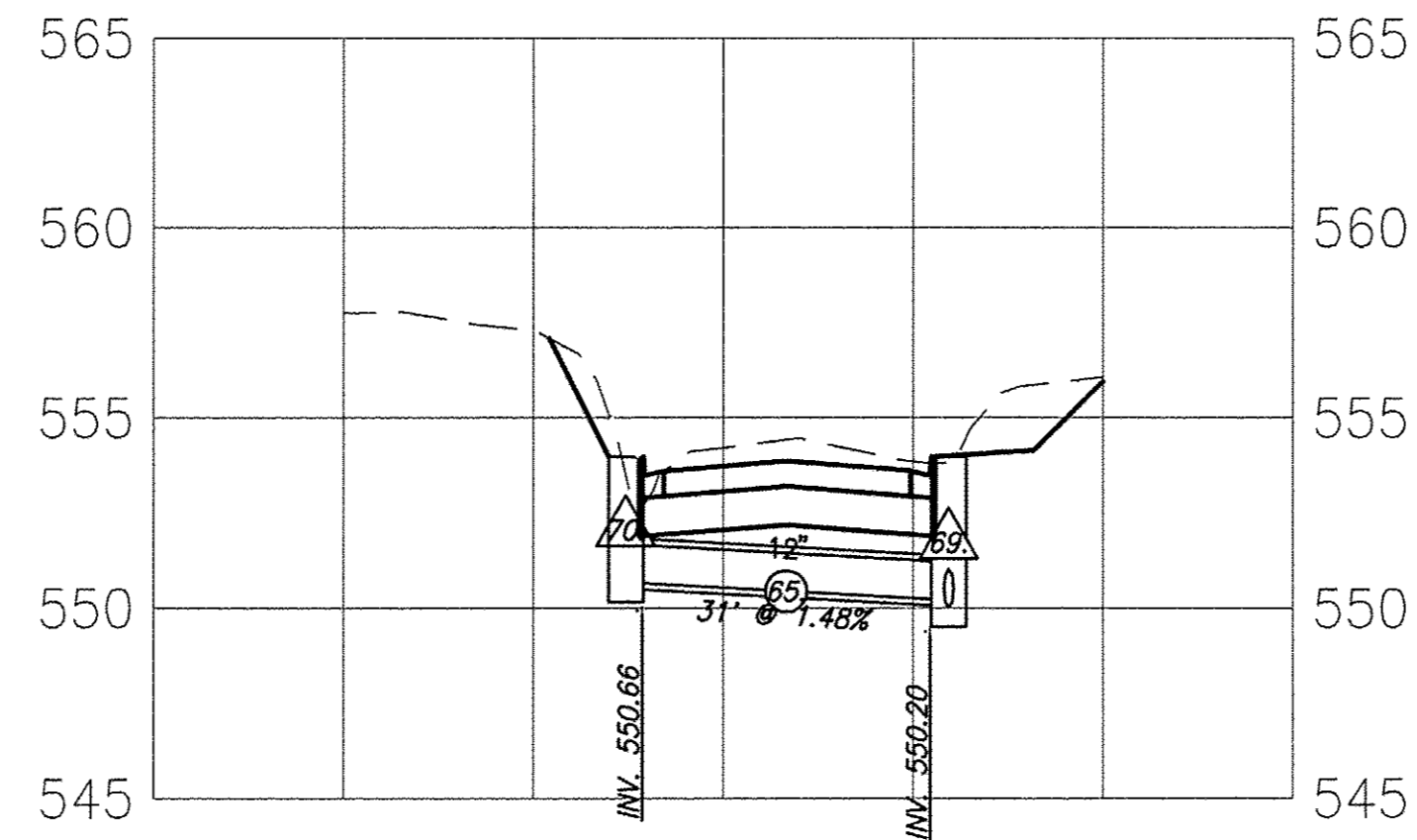
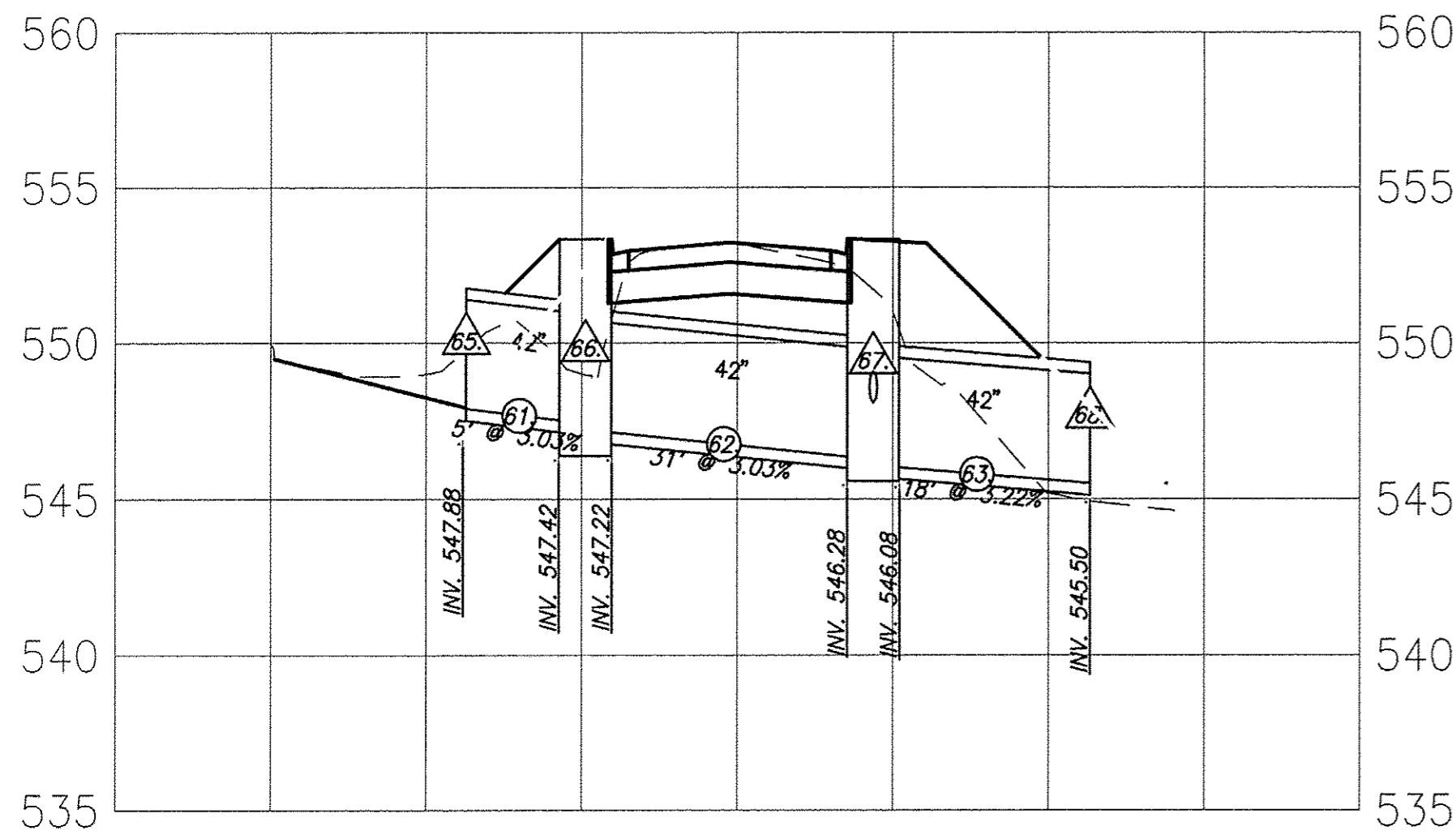
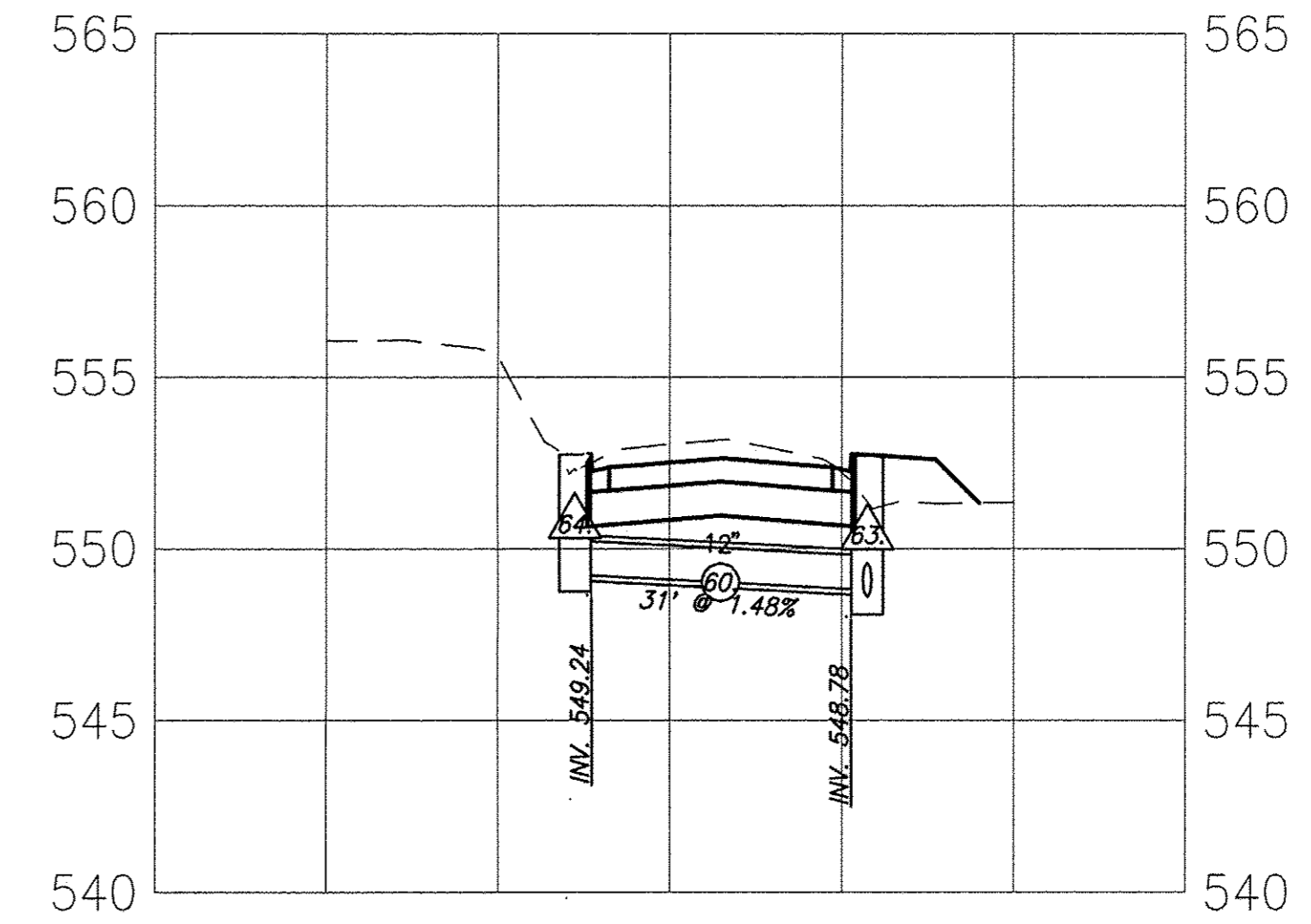
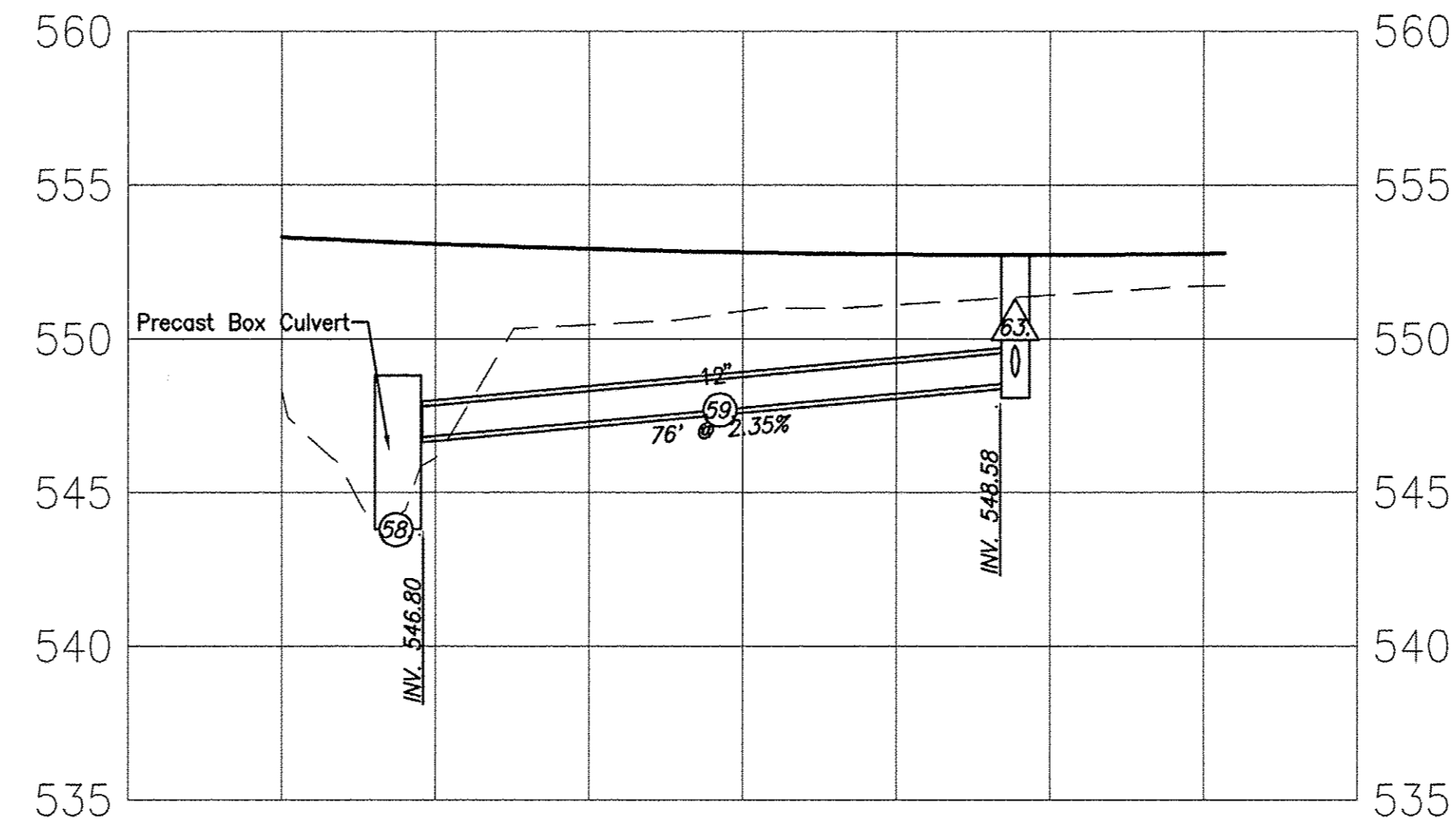
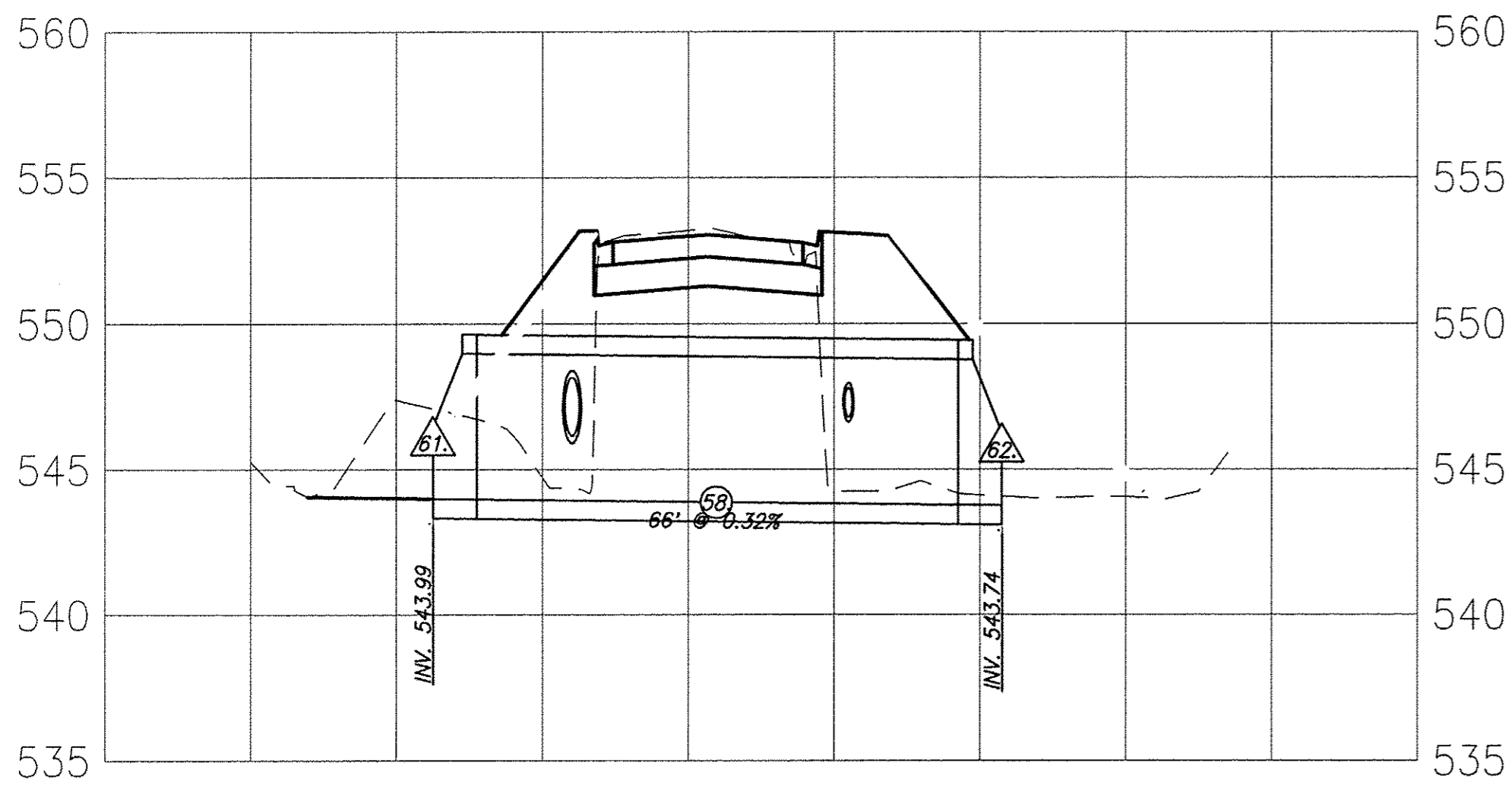
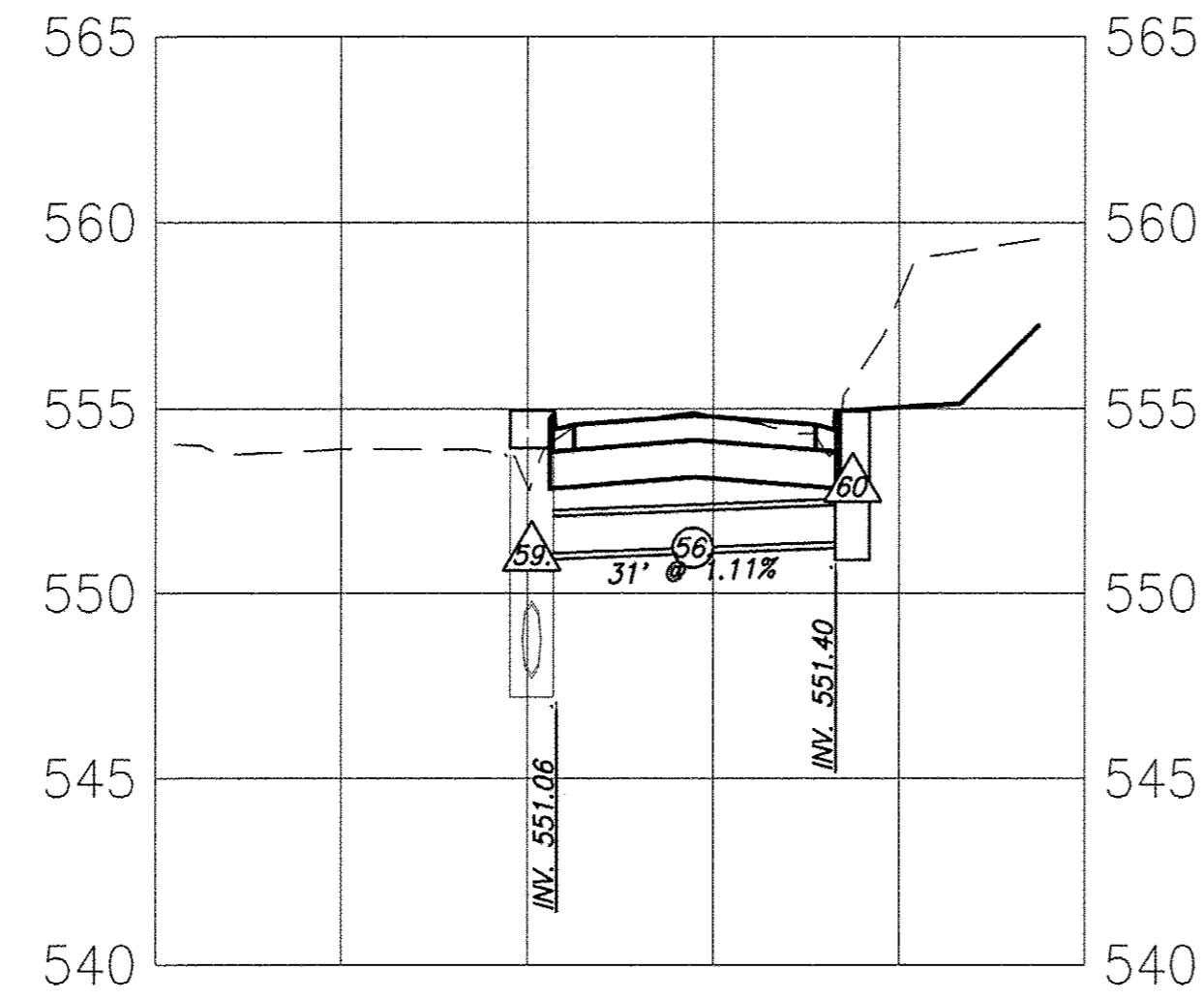
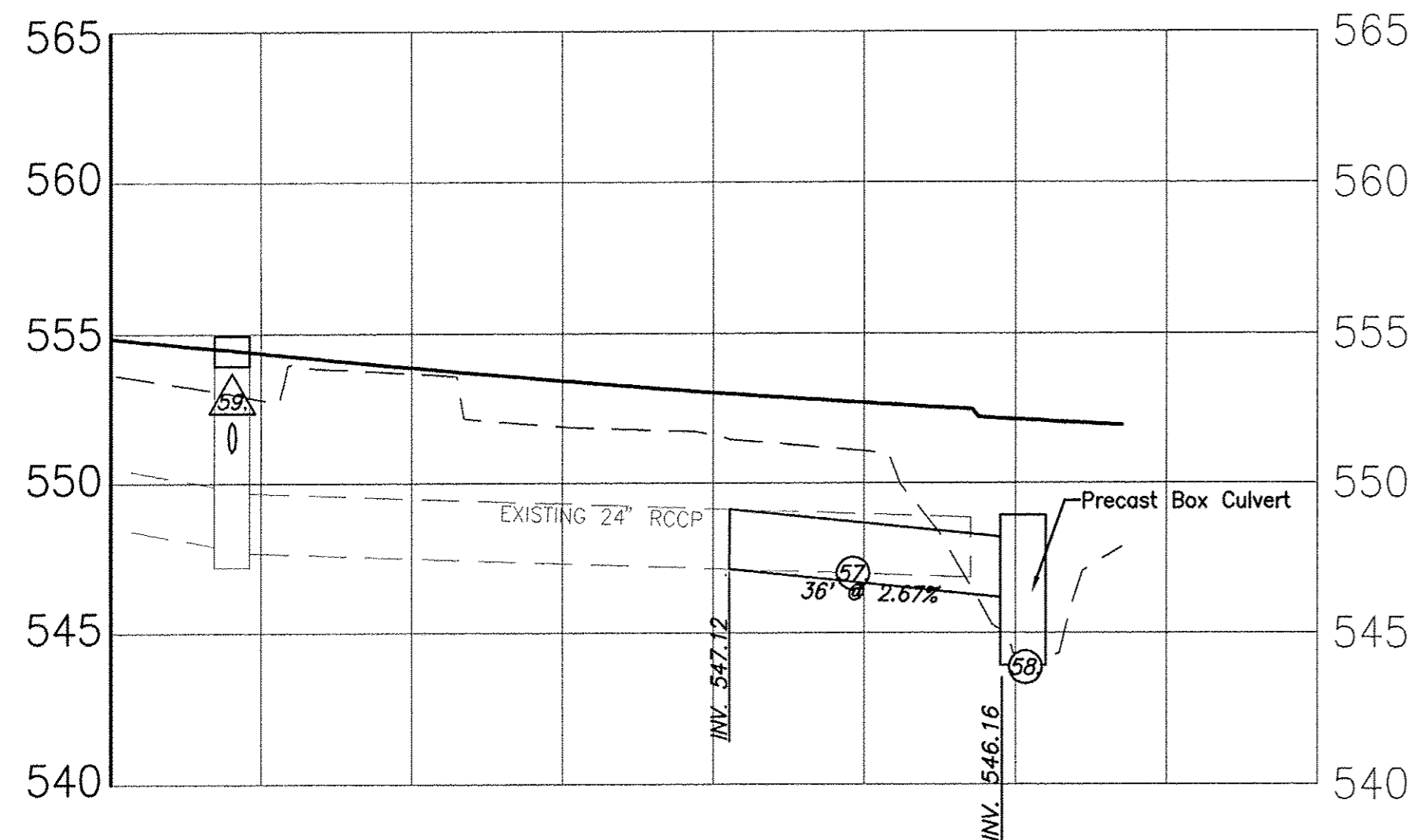
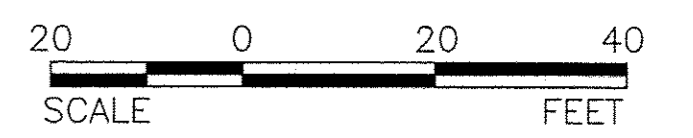
REMOVE UNSUITABLE SOIL BELOW BOTTOM OF CULVERT TO DEPTH OF 2 FT. OR AS DIRECTED BY THE ENGINEER AND 2 FT. OUTSIDE THE FOOTPRINT OF THE BOX. COST SHALL BE INCLUDED IN THE COST OF "STRUCTURE EXCAVATION". REPLACE WITH CA-7 OR CA-11 "POROUS GRANULAR EMBANKMENT." (SEE GENERAL NOTES)

STATION	545	540	535	530	525	520
545						
540						
535						
530						
525						
520						

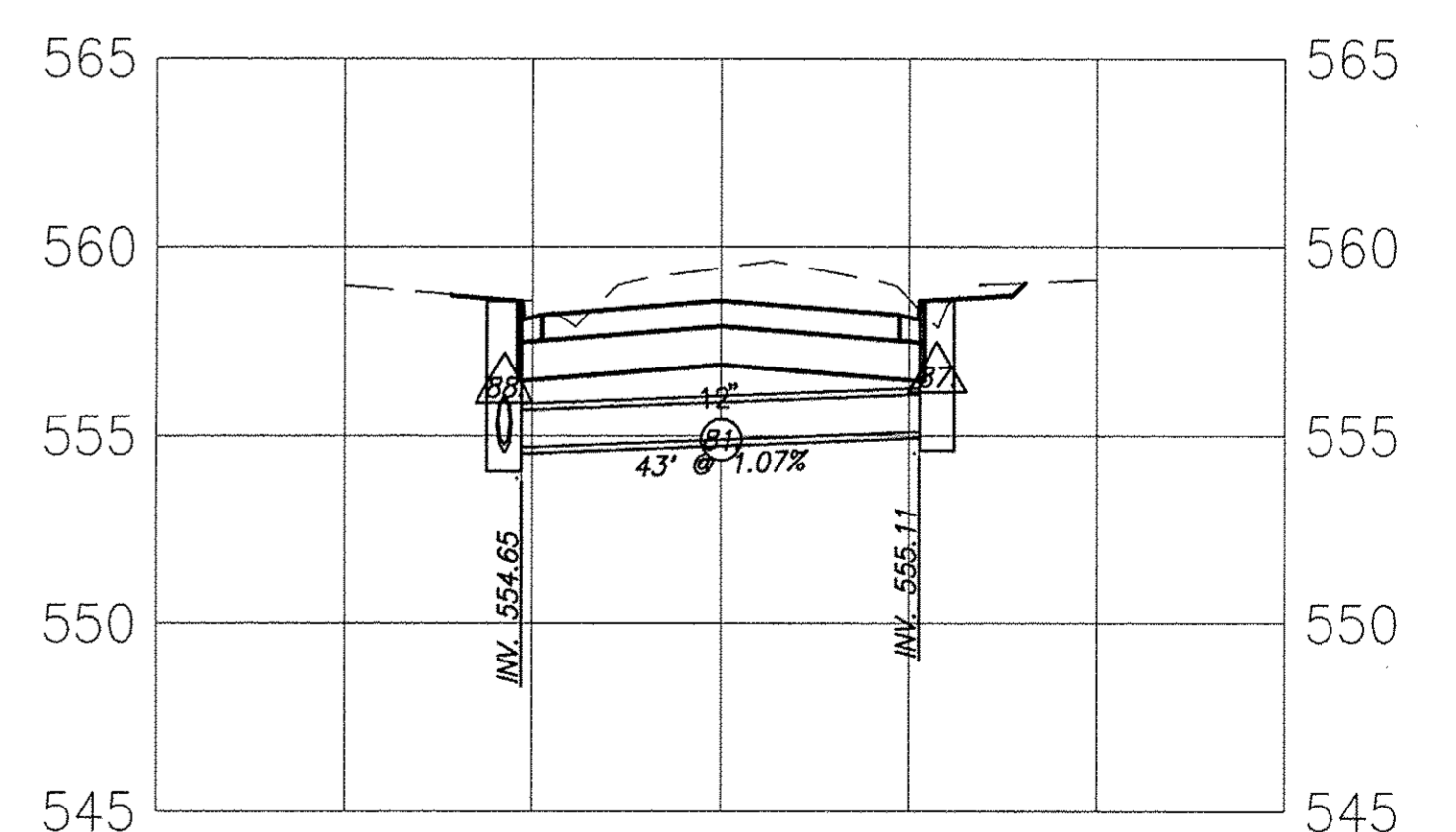
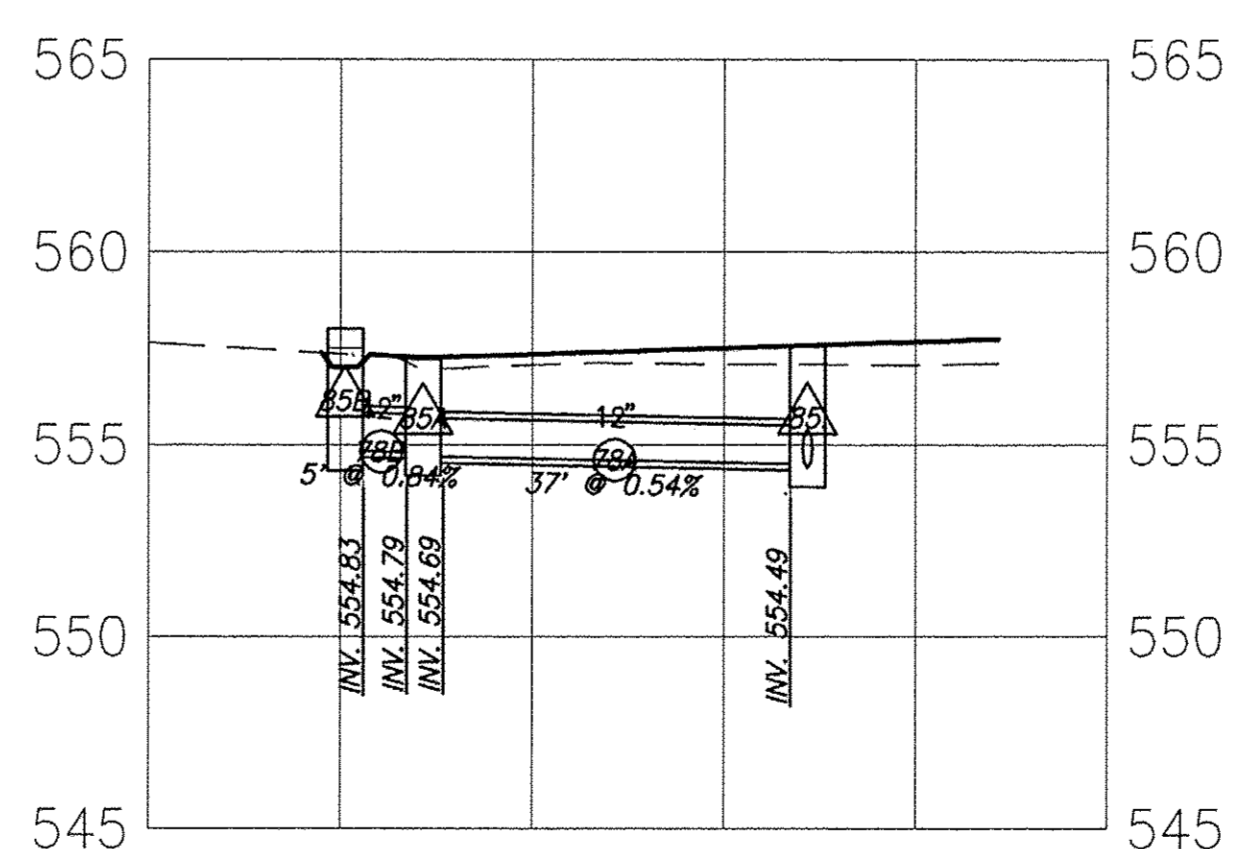
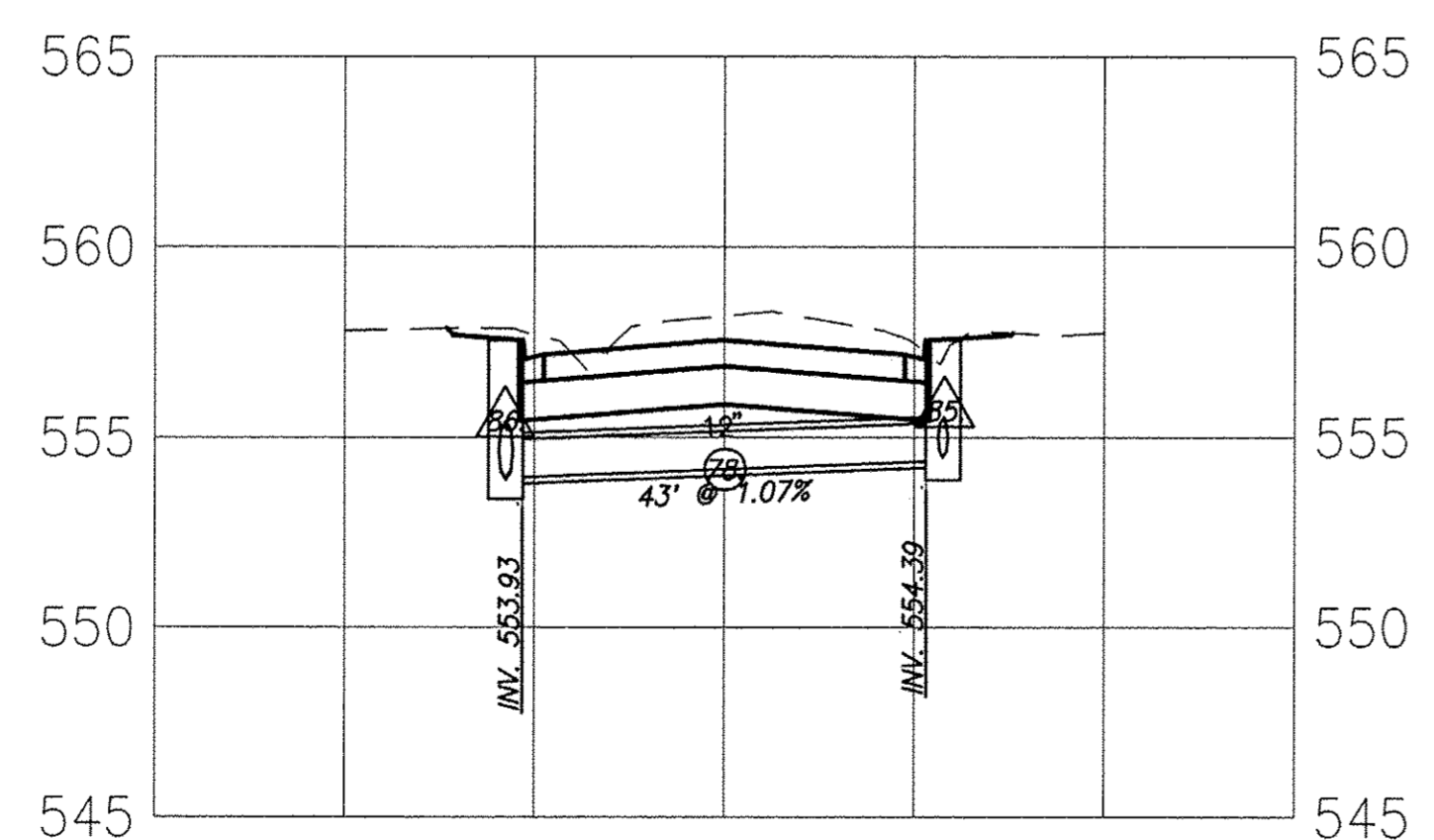
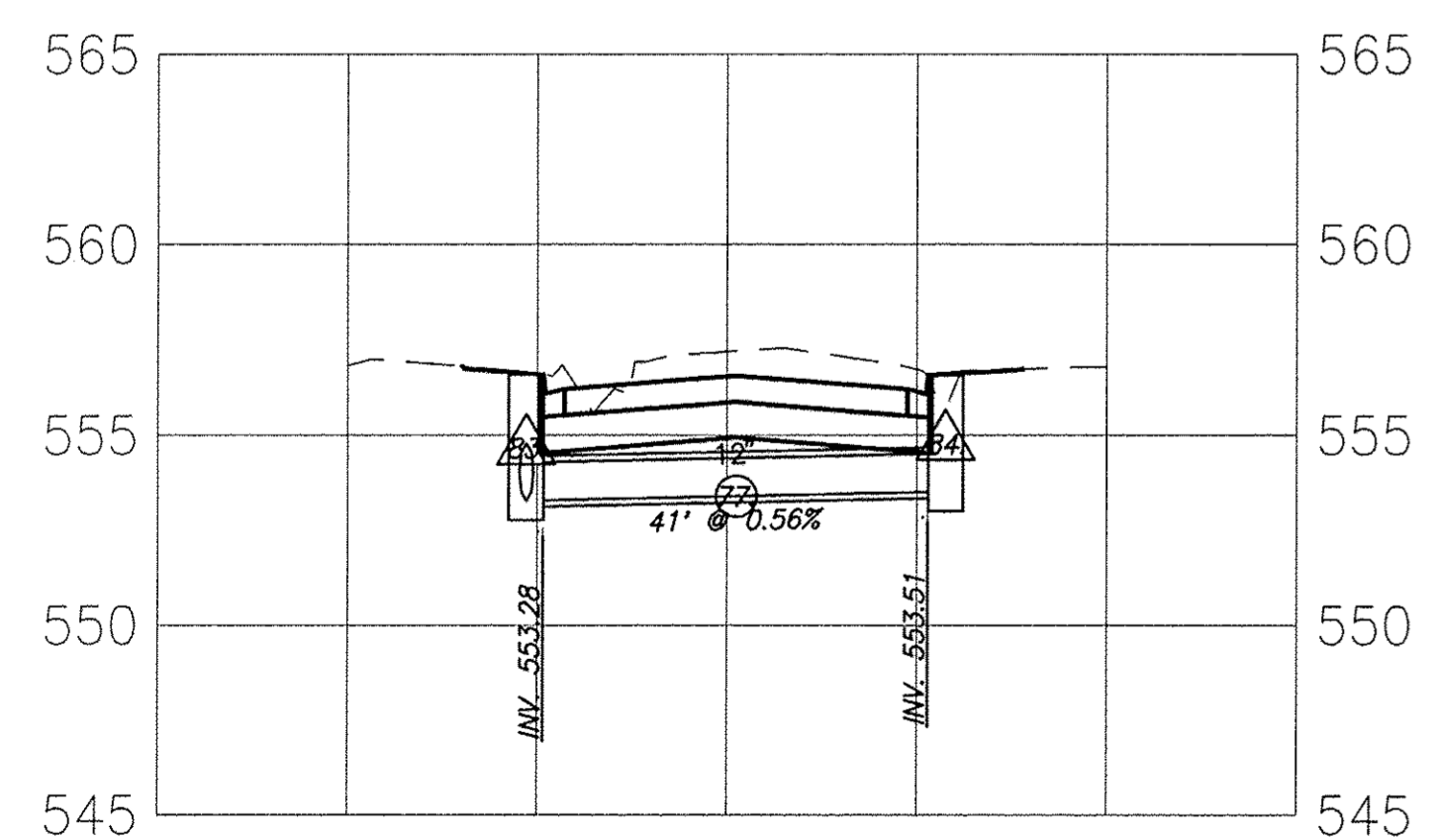
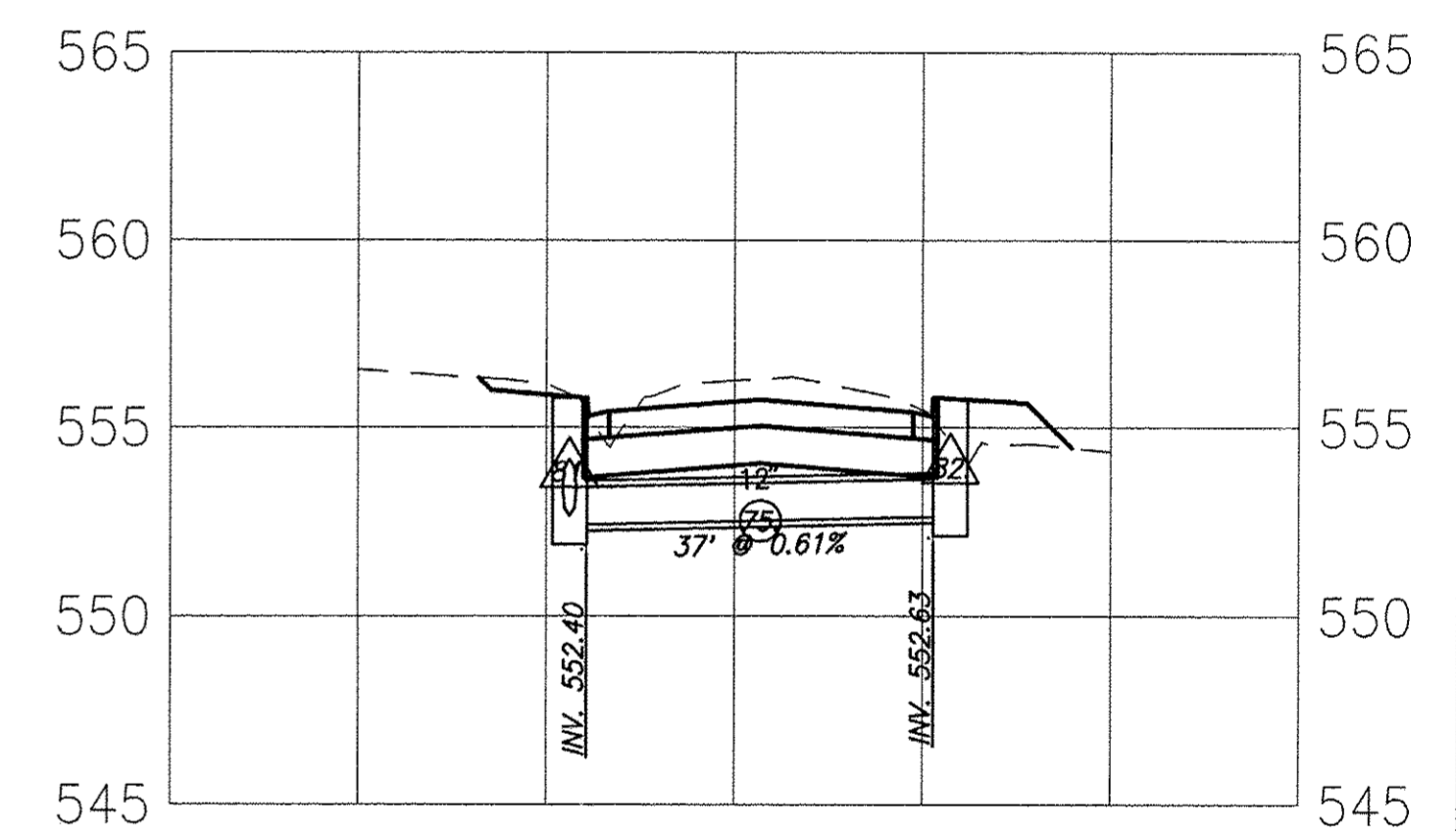
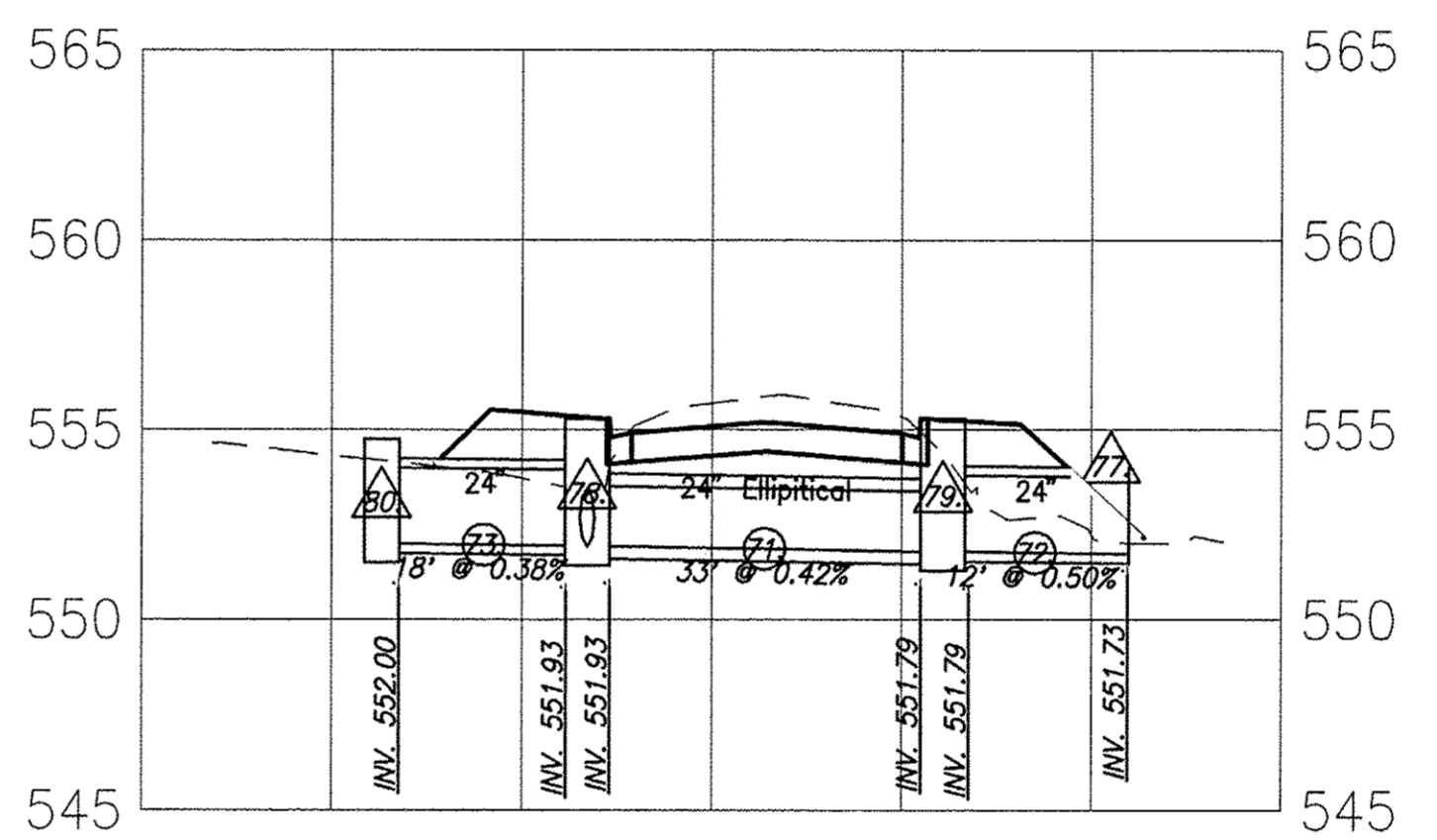
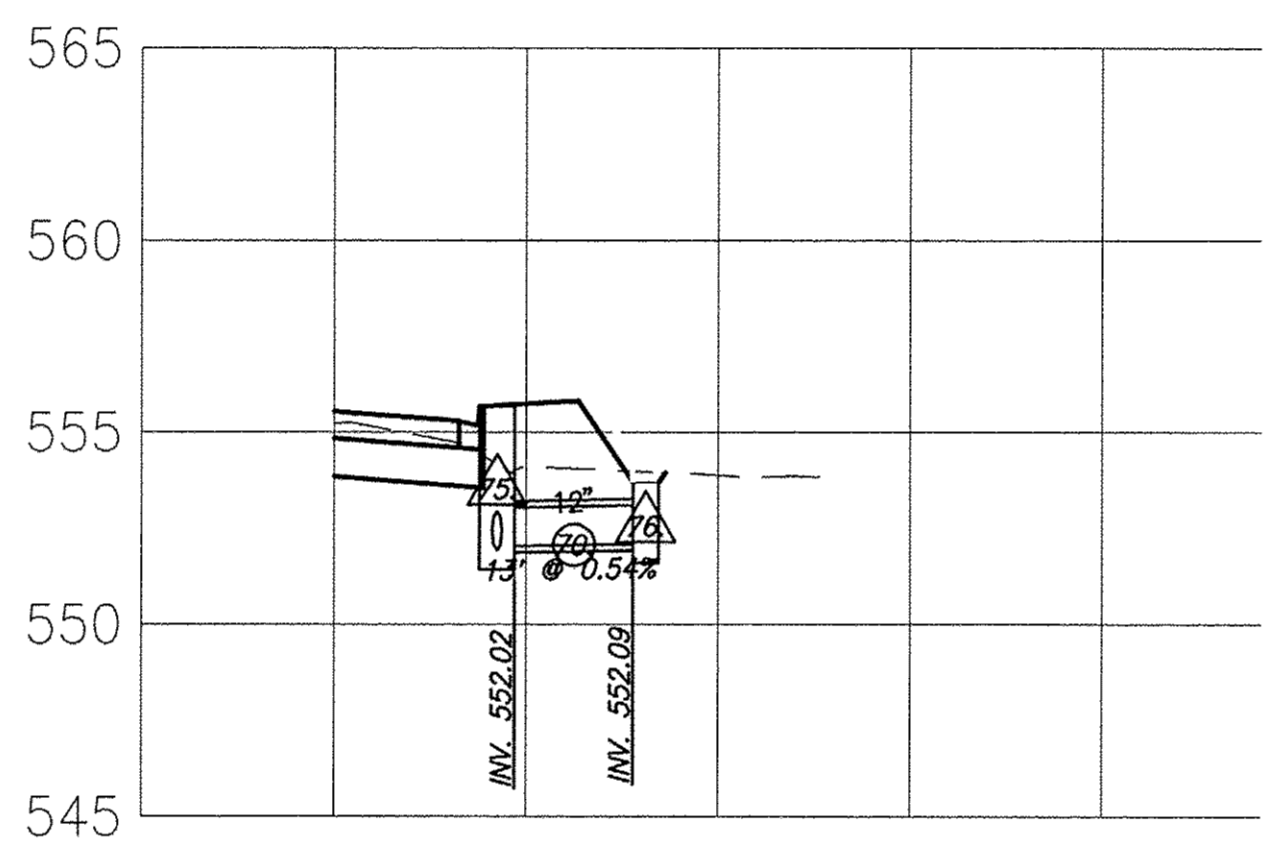
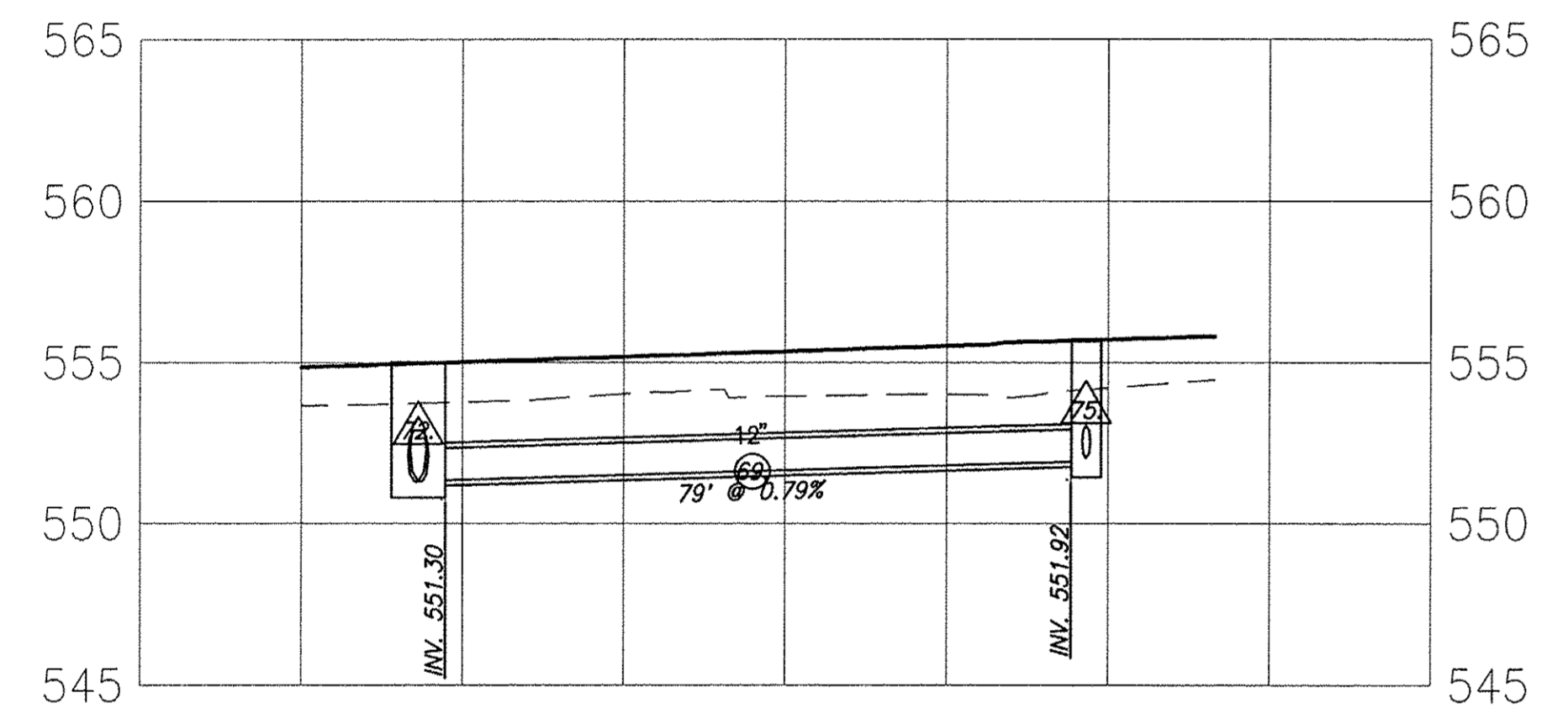
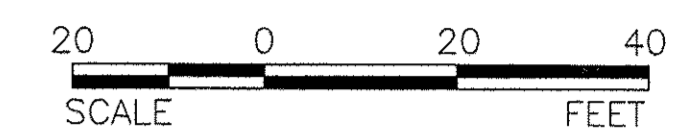
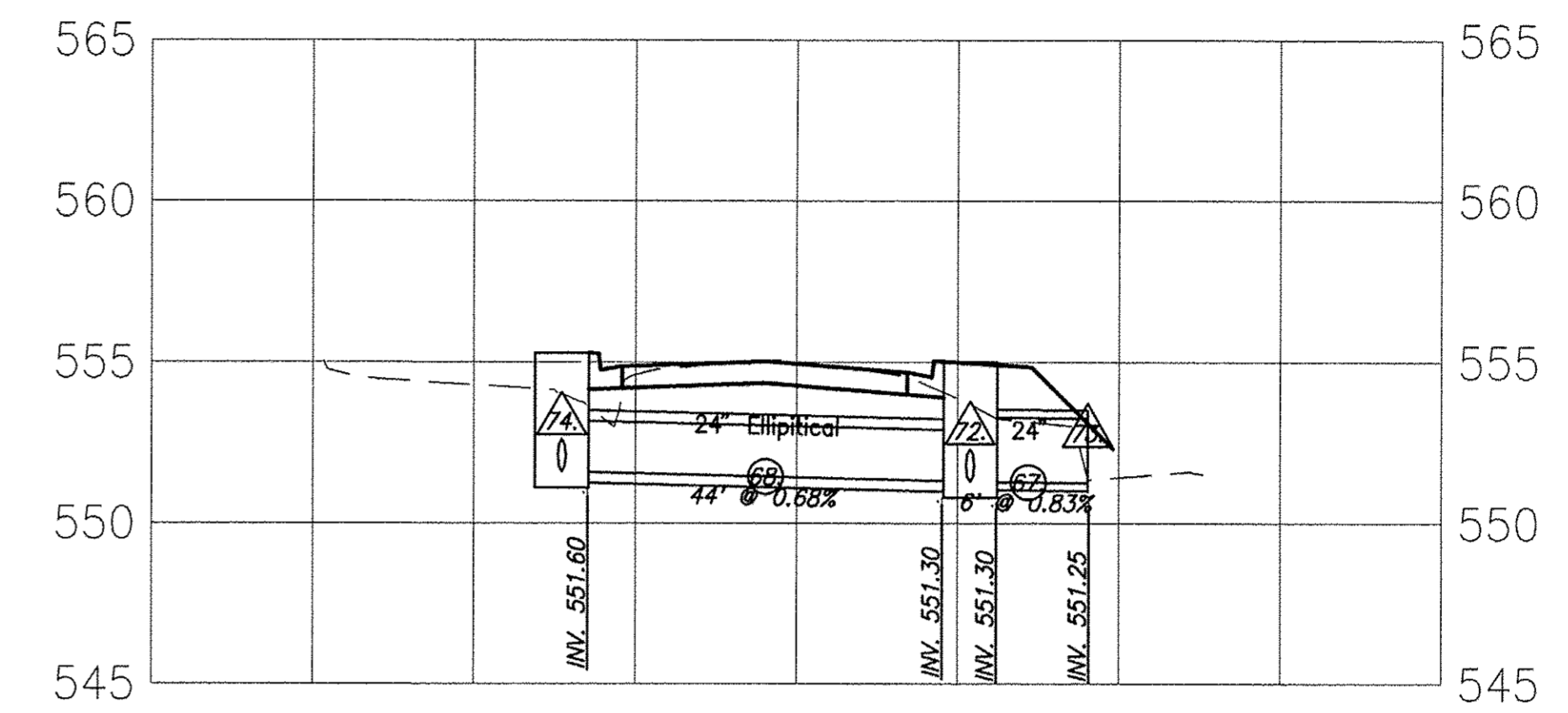
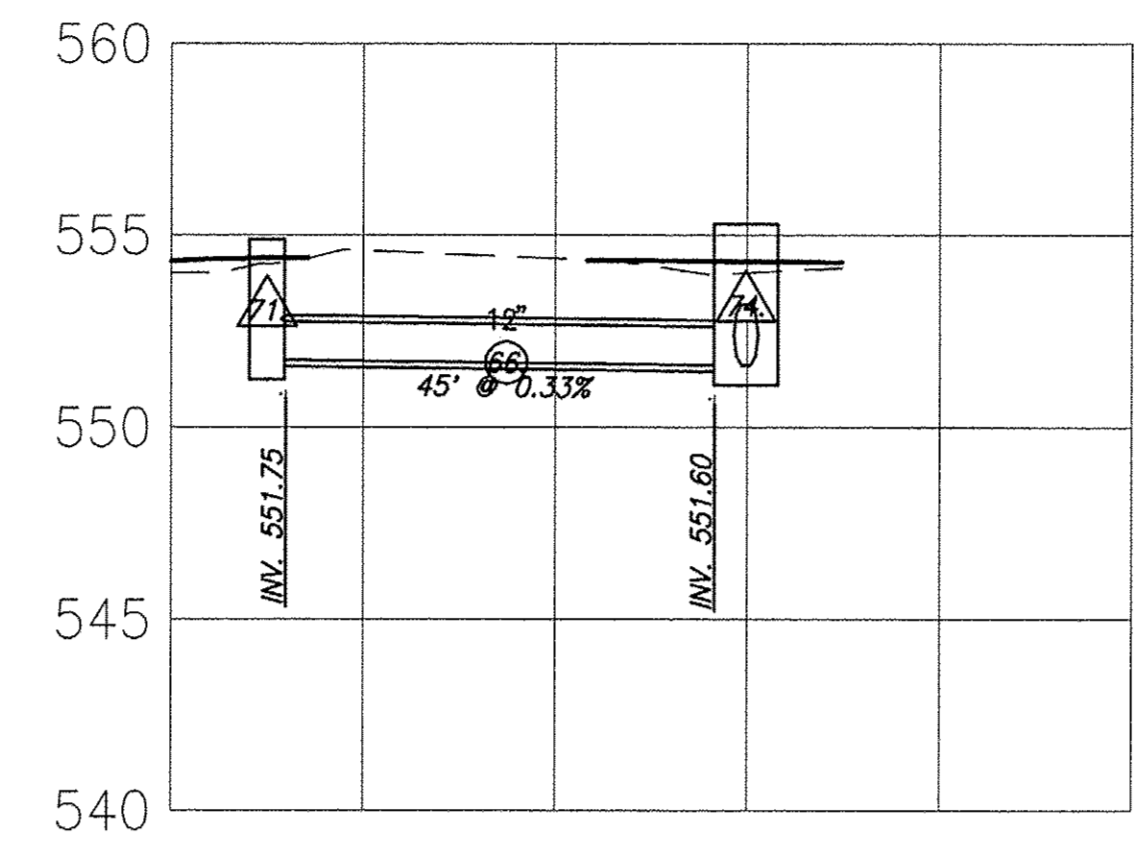
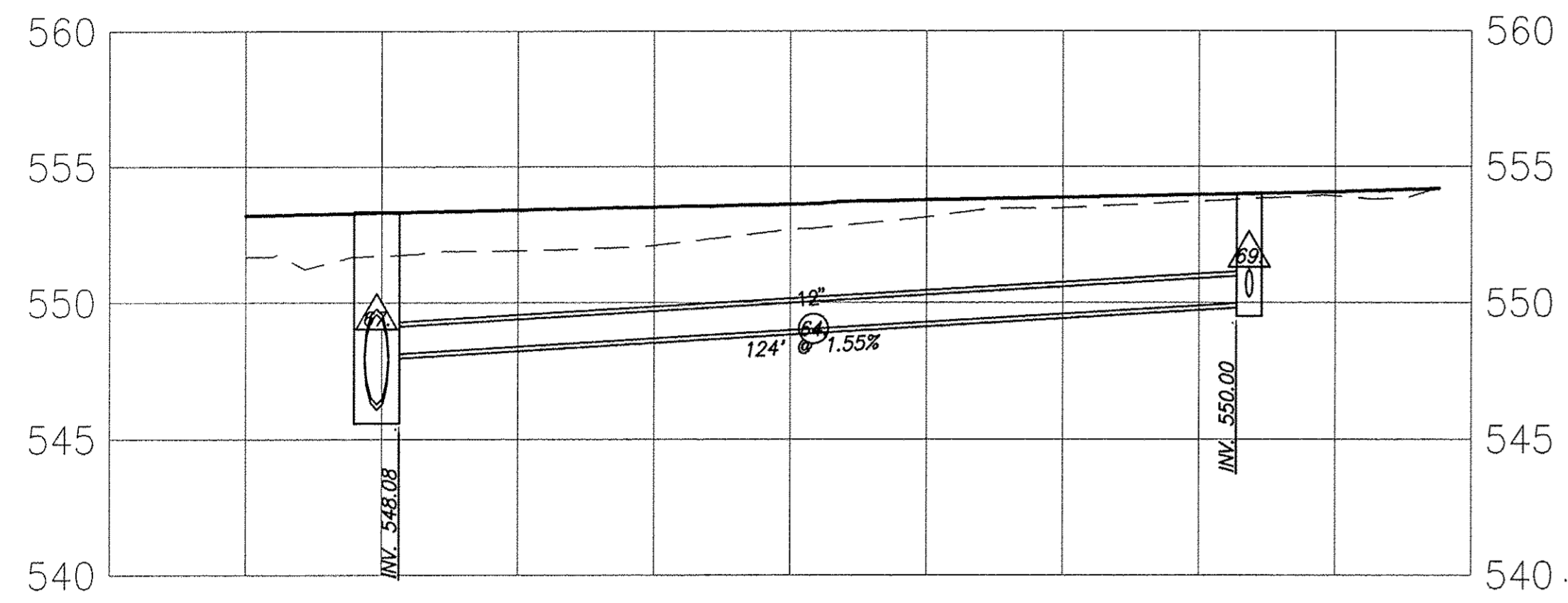


STATION 952+02.62 (SKEWED) CULVERT SECTION

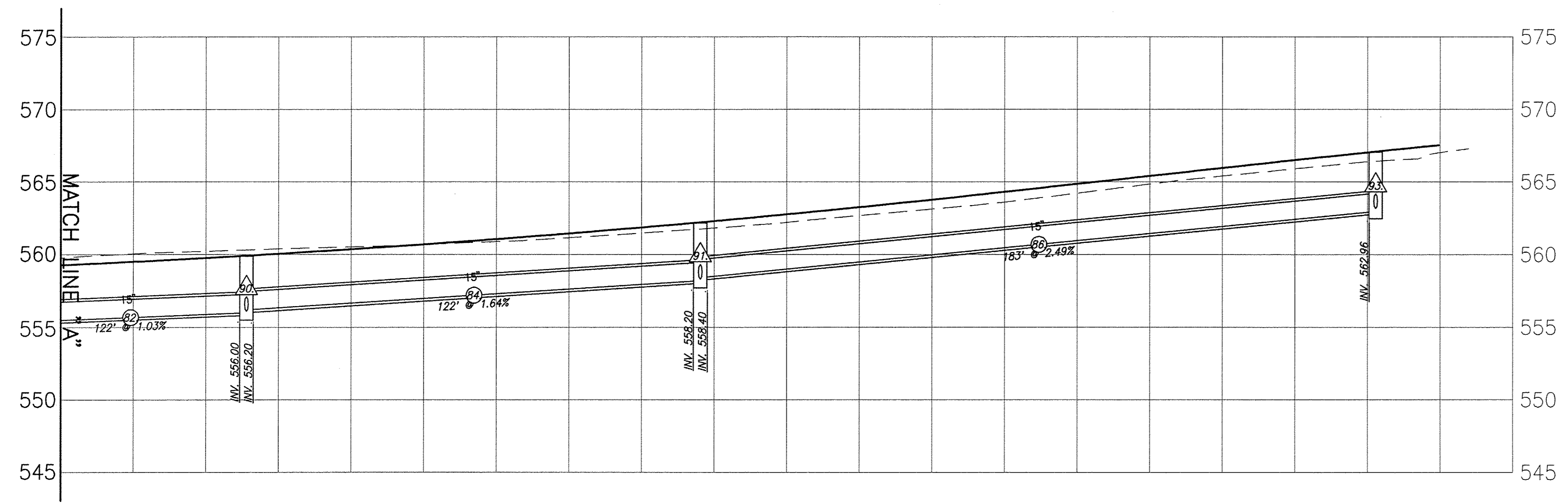
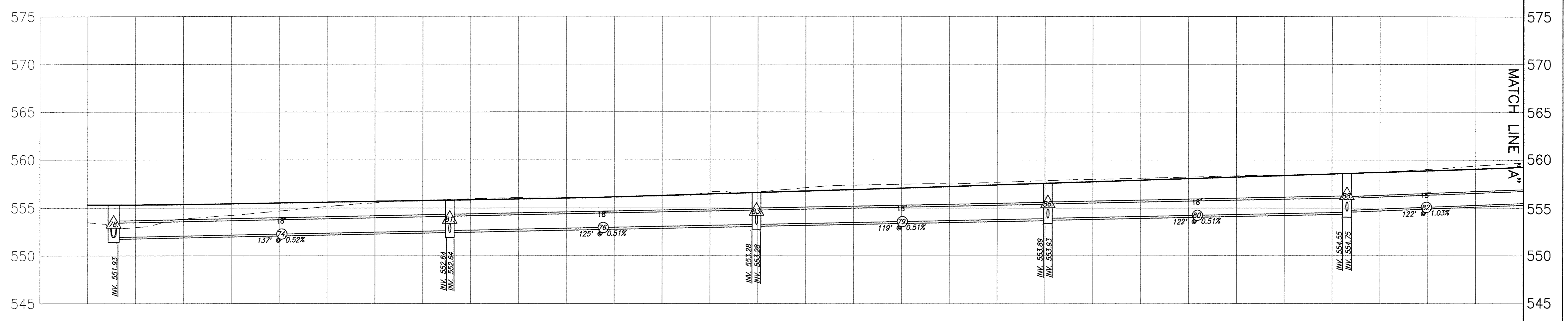
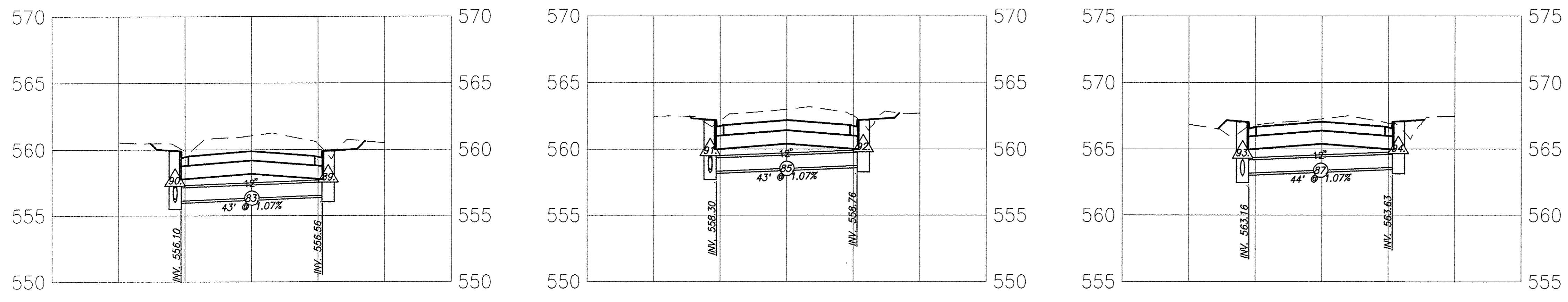
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	31
FEDERAL AID PROJECT		CONTRACT 97634		



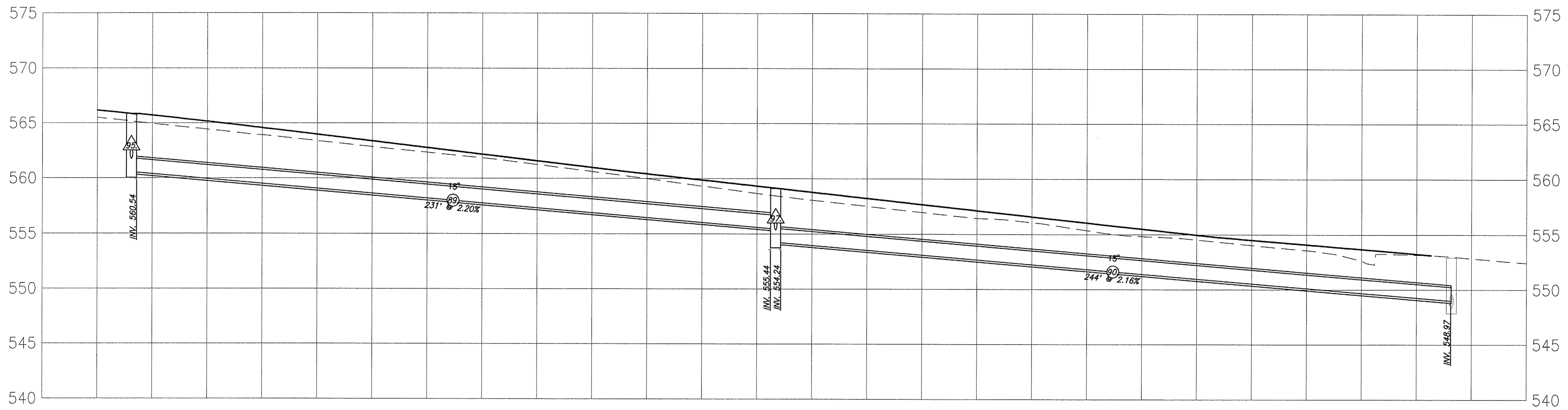
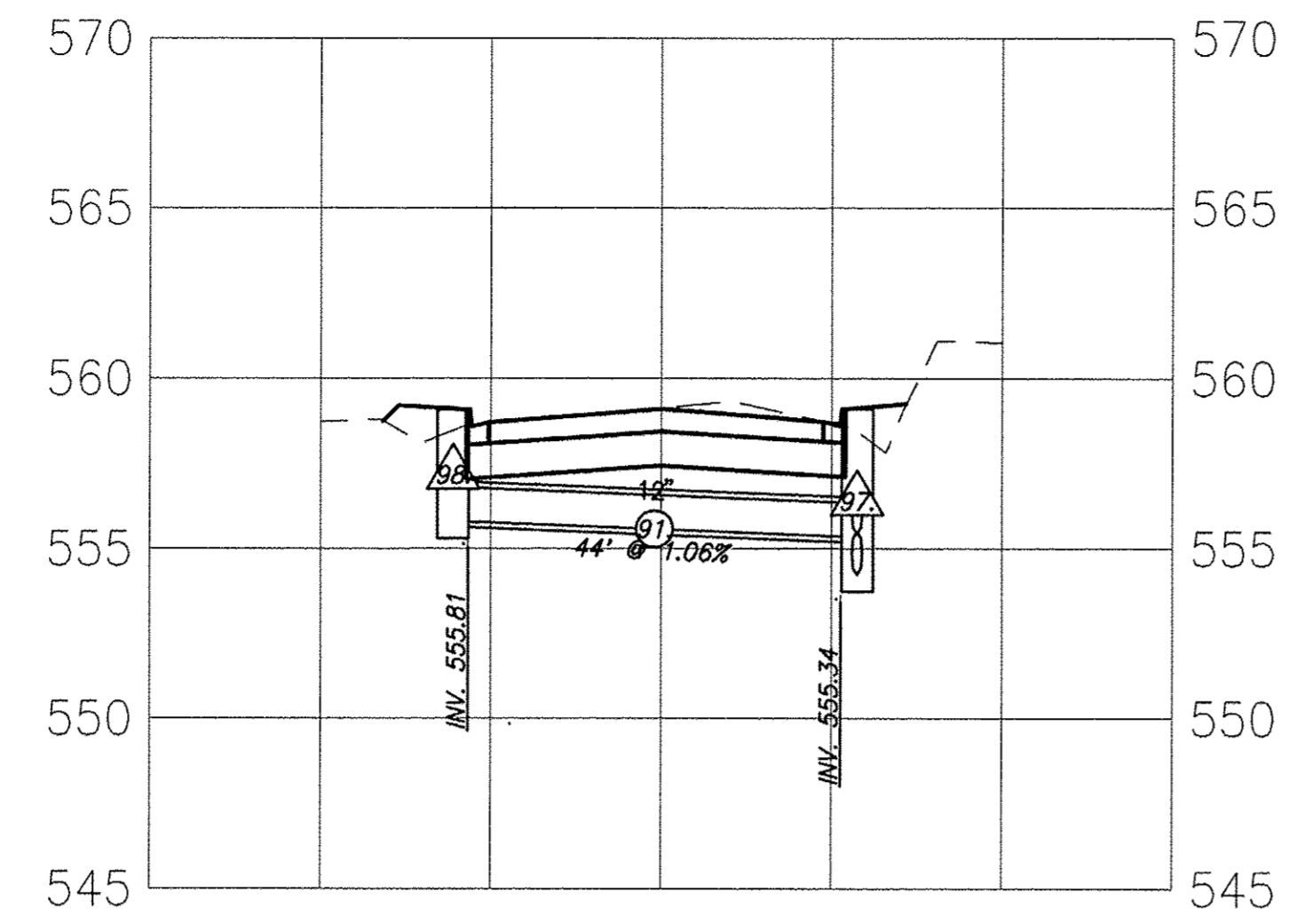
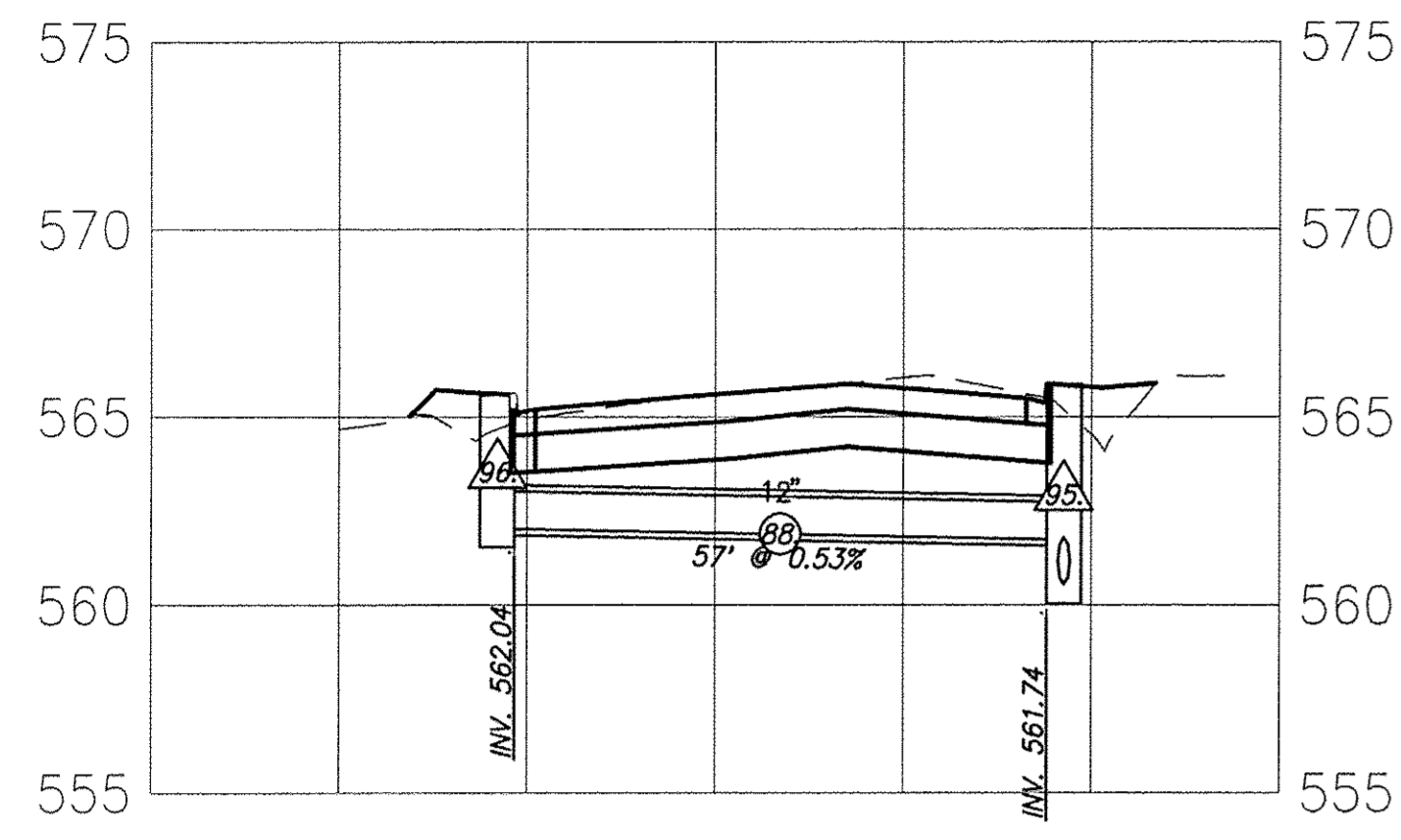
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	32
FEDERAL AID PROJECT		CONTRACT 97634		



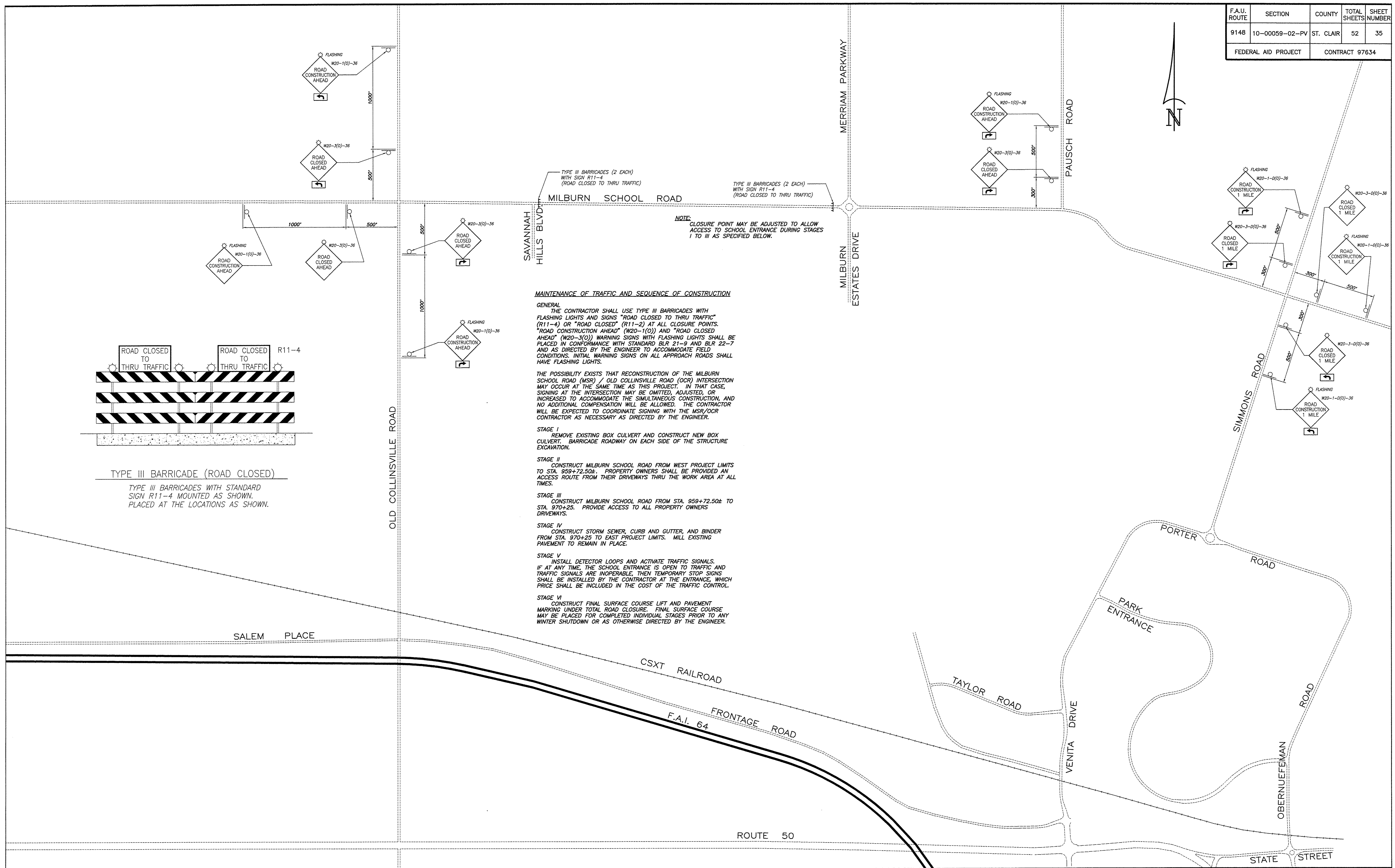
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9148	10-00059-02-PV	ST. CLAIR	52	33
FEDERAL AID PROJECT		CONTRACT 97634		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	34
FEDERAL AID PROJECT		CONTRACT 97634		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	35
FEDERAL AID PROJECT			CONTRACT 97634	



NOTE: CLOSURE POINT MAY BE ADJUSTED TO ALLOW ACCESS TO SCHOOL ENTRANCE DURING STAGES I TO III AS SPECIFIED BELOW.

MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION

GENERAL
 THE CONTRACTOR SHALL USE TYPE III BARRICADES WITH FLASHING LIGHTS AND SIGNS "ROAD CLOSED TO THRU TRAFFIC" (R11-4) OR "ROAD CLOSED" (R11-2) AT ALL CLOSURE POINTS. "ROAD CONSTRUCTION AHEAD" (W20-1(O)) AND "ROAD CLOSED AHEAD" (W20-3(O)) WARNING SIGNS WITH FLASHING LIGHTS SHALL BE PLACED IN CONFORMANCE WITH STANDARD BLR 21-9 AND BLR 22-7 AND AS DIRECTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS. INITIAL WARNING SIGNS ON ALL APPROACH ROADS SHALL HAVE FLASHING LIGHTS.

THE POSSIBILITY EXISTS THAT RECONSTRUCTION OF THE MILBURN SCHOOL ROAD (MSR) / OLD COLLINSVILLE ROAD (OCR) INTERSECTION MAY OCCUR AT THE SAME TIME AS THIS PROJECT. IN THAT CASE, SIGNING AT THE INTERSECTION MAY BE OMITTED, ADJUSTED, OR INCREASED TO ACCOMMODATE THE SIMULTANEOUS CONSTRUCTION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CONTRACTOR WILL BE EXPECTED TO COORDINATE SIGNING WITH THE MSR/OCR CONTRACTOR AS NECESSARY AS DIRECTED BY THE ENGINEER.

STAGE I
 REMOVE EXISTING BOX CULVERT AND CONSTRUCT NEW BOX CULVERT. BARRICADE ROADWAY ON EACH SIDE OF THE STRUCTURE EXCAVATION.

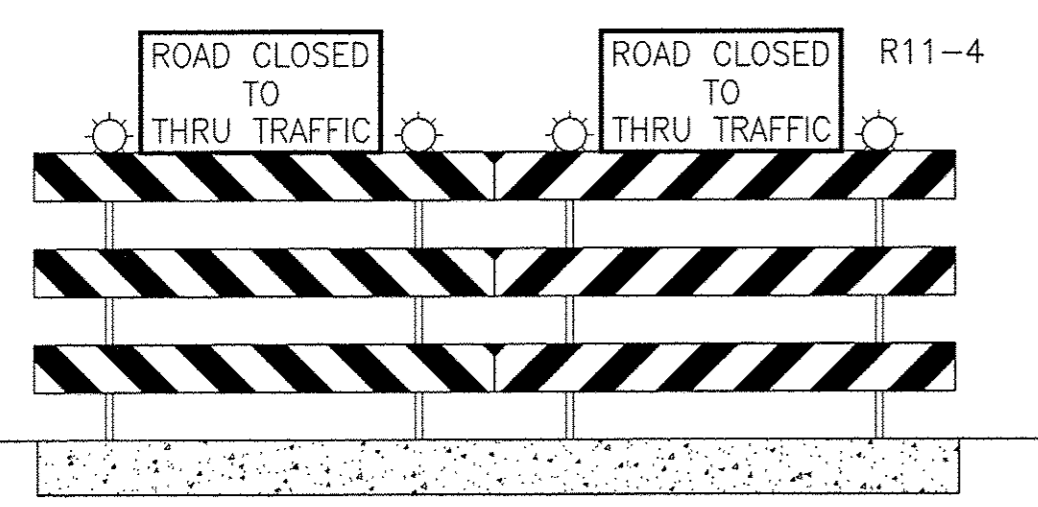
STAGE II
 CONSTRUCT MILBURN SCHOOL ROAD FROM WEST PROJECT LIMITS TO STA. 959+72.50±. PROPERTY OWNERS SHALL BE PROVIDED AN ACCESS ROUTE FROM THEIR DRIVEWAYS THRU THE WORK AREA AT ALL TIMES.

STAGE III
 CONSTRUCT MILBURN SCHOOL ROAD FROM STA. 959+72.50± TO STA. 970+25. PROVIDE ACCESS TO ALL PROPERTY OWNERS DRIVEWAYS.

STAGE IV
 CONSTRUCT STORM SEWER, CURB AND GUTTER, AND BINDER FROM STA. 970+25 TO EAST PROJECT LIMITS. MILL EXISTING PAVEMENT TO REMAIN IN PLACE.

STAGE V
 INSTALL DETECTOR LOOPS AND ACTIVATE TRAFFIC SIGNALS. IF AT ANY TIME, THE SCHOOL ENTRANCE IS OPEN TO TRAFFIC AND TRAFFIC SIGNALS ARE INOPERABLE, THEN TEMPORARY STOP SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT THE ENTRANCE, WHICH PRICE SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL.

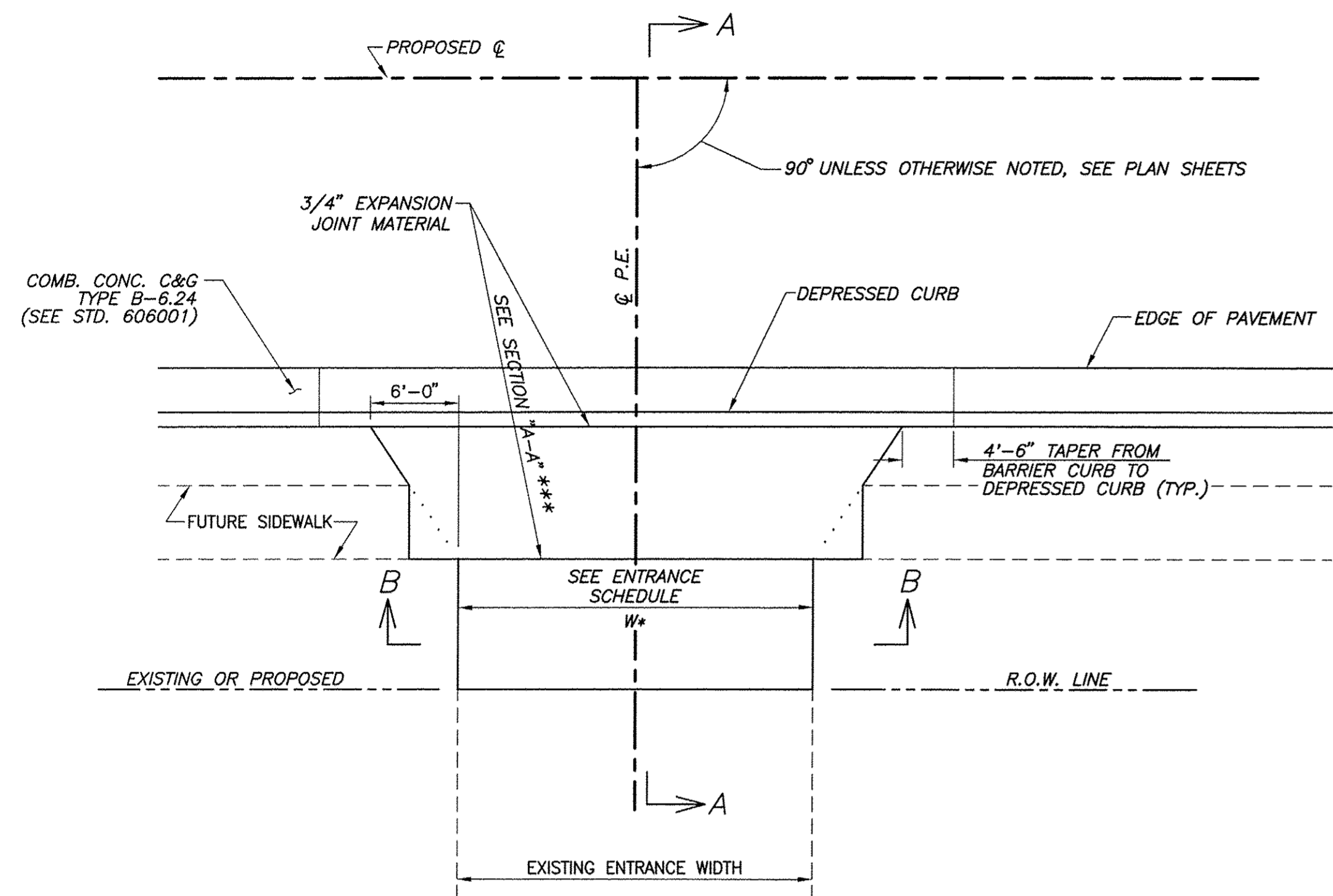
STAGE VI
 CONSTRUCT FINAL SURFACE COURSE LIFT AND PAVEMENT MARKING UNDER TOTAL ROAD CLOSURE. FINAL SURFACE COURSE MAY BE PLACED FOR COMPLETED INDIVIDUAL STAGES PRIOR TO ANY WINTER SHUTDOWN OR AS OTHERWISE DIRECTED BY THE ENGINEER.



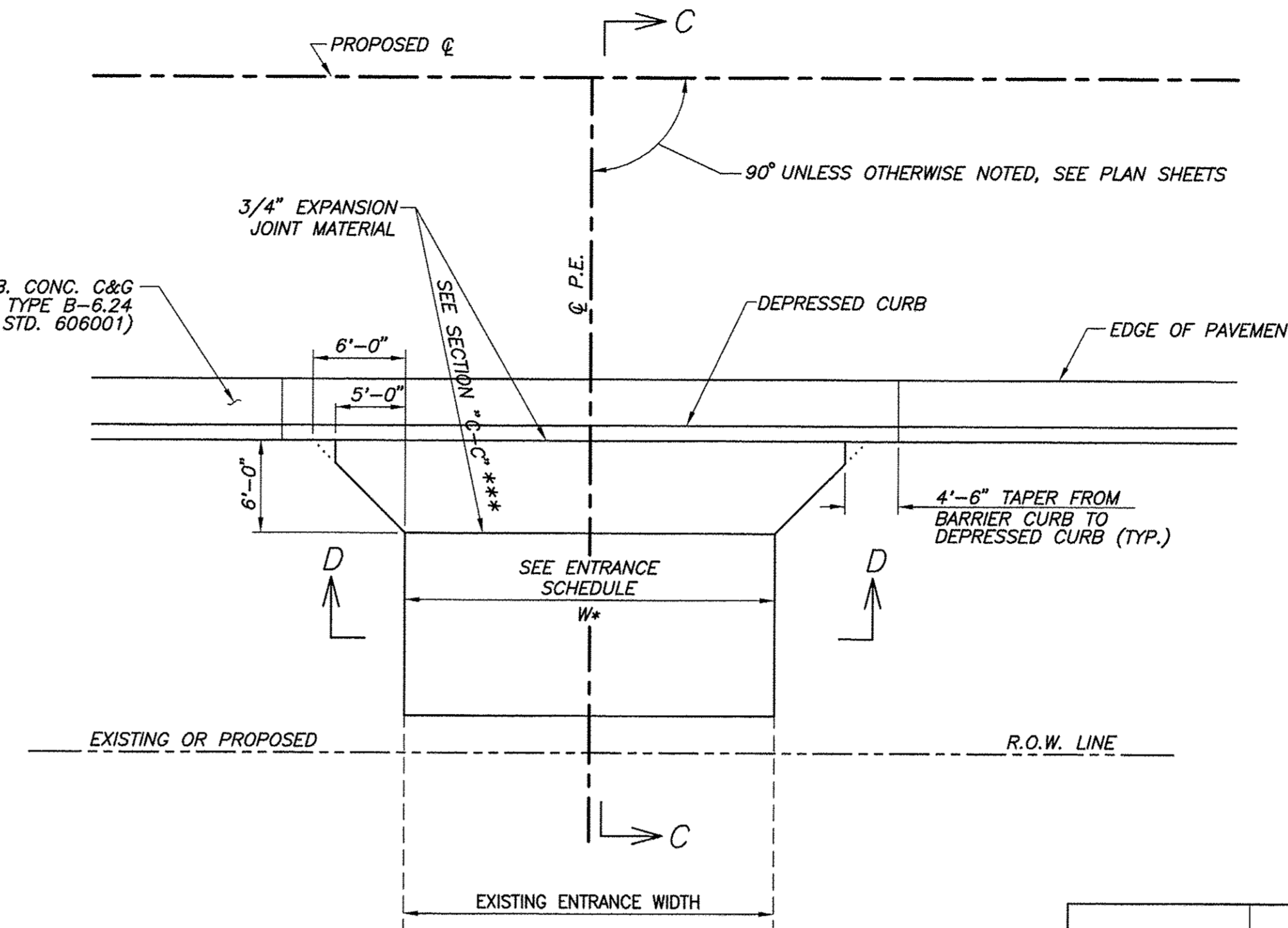
TYPE III BARRICADE (ROAD CLOSED)

TYPE III BARRICADES WITH STANDARD SIGN R11-4 MOUNTED AS SHOWN. PLACED AT THE LOCATIONS AS SHOWN.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	36
FEDERAL AID PROJECT			CONTRACT 97634	

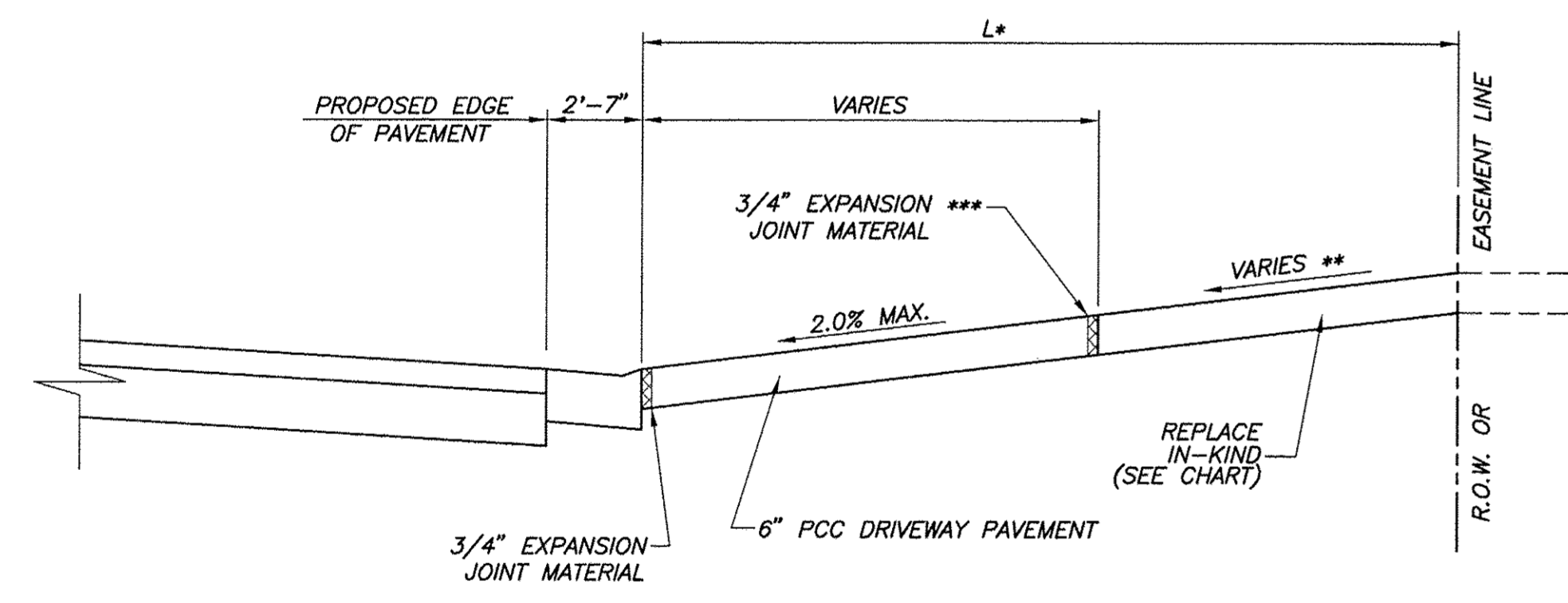


P.E. DETAIL "A"
PRIVATE ENTRANCE WITH SIDEWALK



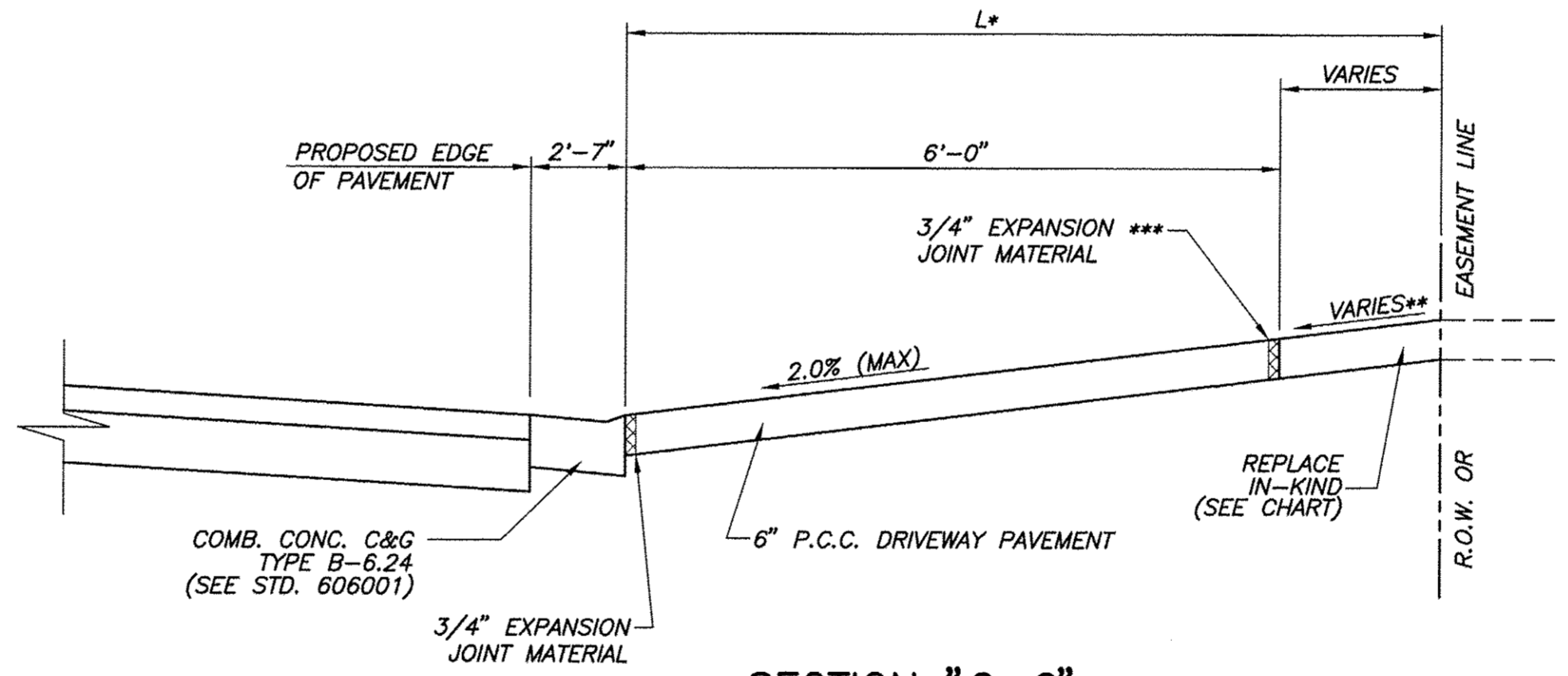
P.E. DETAIL "B"
PRIVATE ENTRANCE WITHOUT SIDEWALK
N.T.S.

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



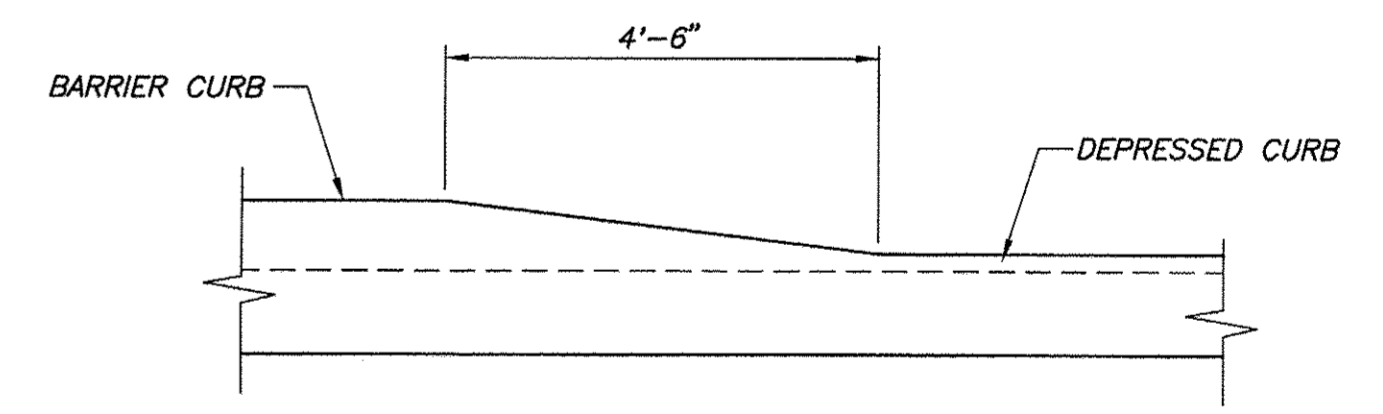
SECTION "A-A"

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

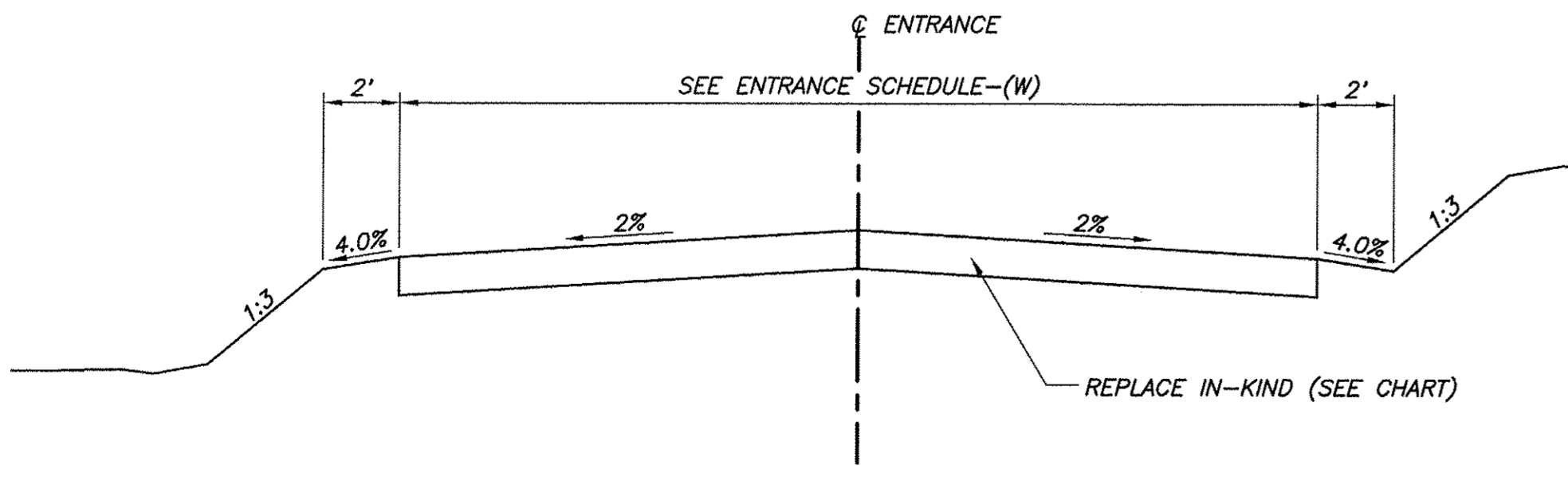


SECTION "C-C"

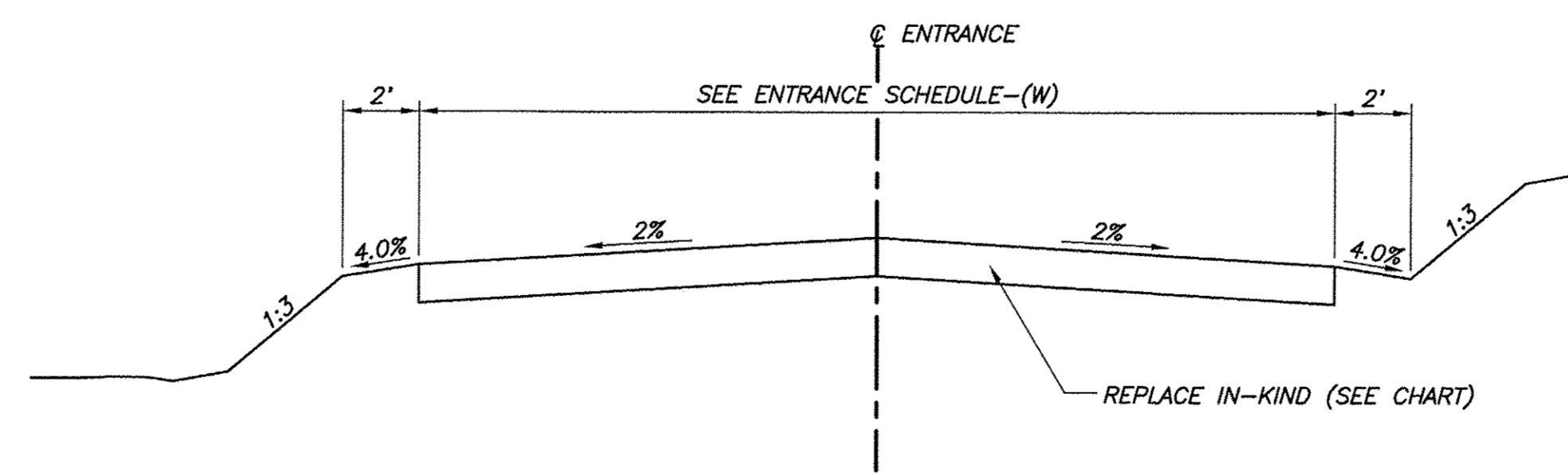
* SEE ENTRANCE SCHEDULE FOR DISTANCES
** SEE CROSS SECTIONS FOR SLOPES
*** EXPANSION REQUIRED ADJACENT TO CONCRETE DRIVEWAY PAVEMENT



DETAIL OF CURB HEIGHT TRANSITION
N.T.S.

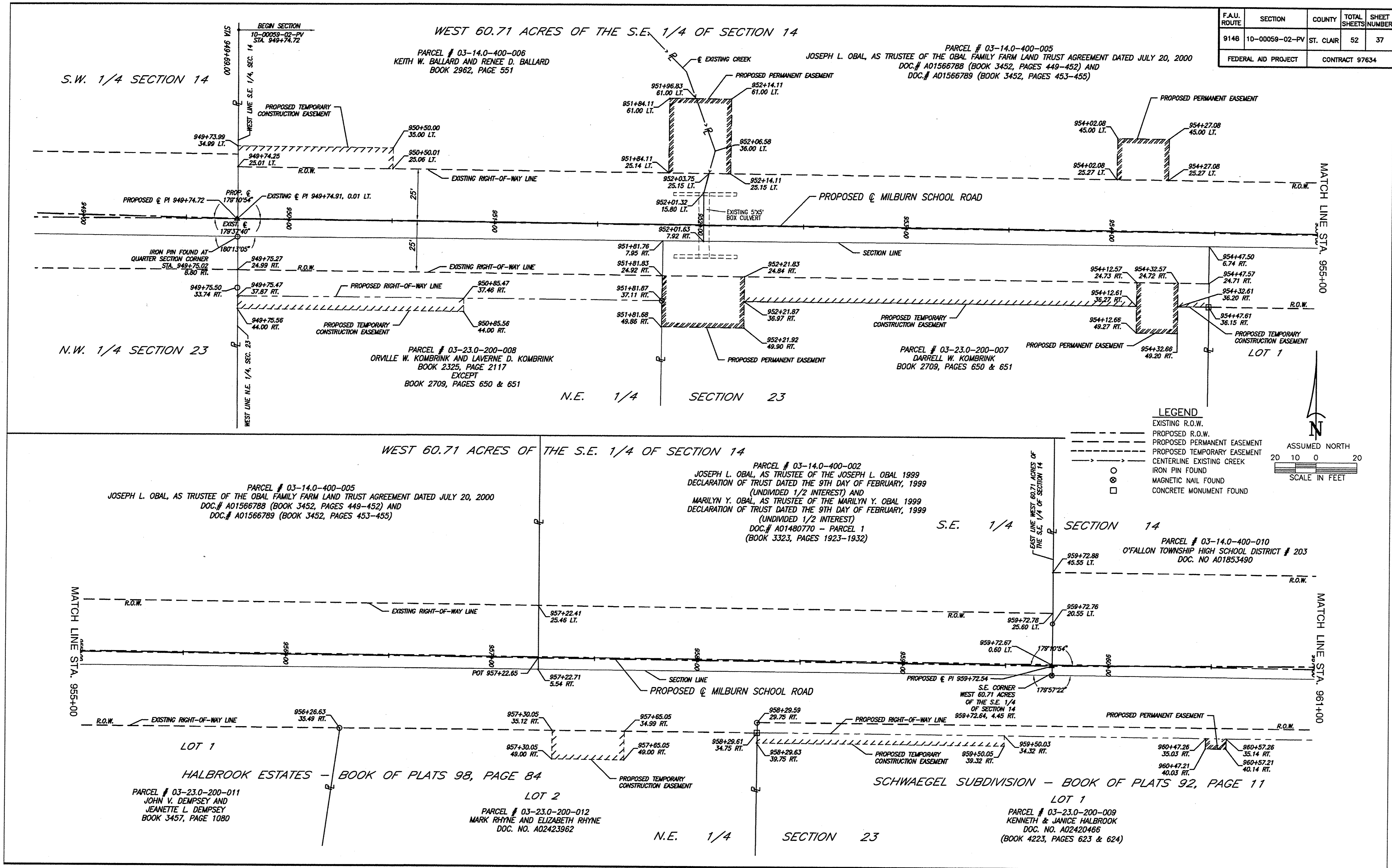


SECTION "B-B"



SECTION "D-D"

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	37
FEDERAL AID PROJECT			CONTRACT 97634	

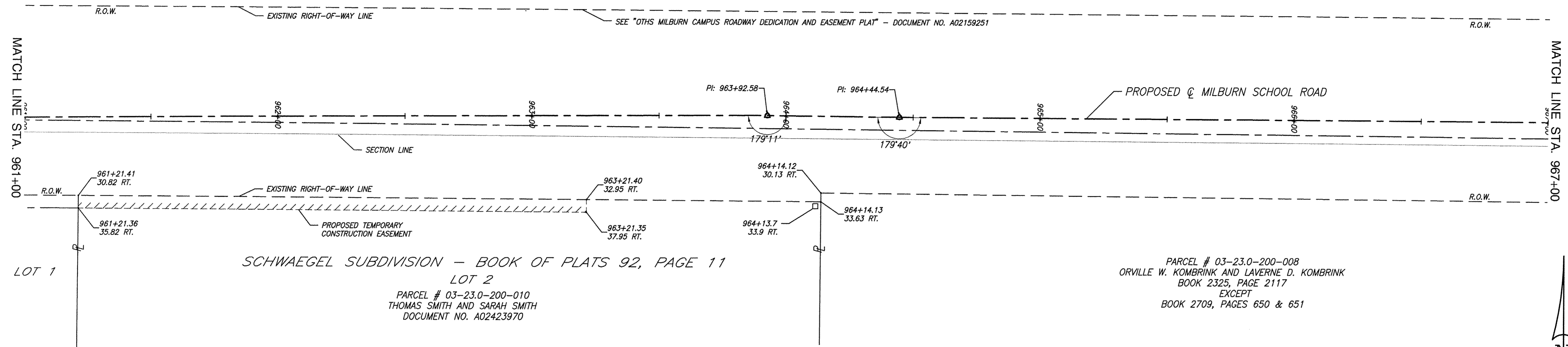


R.O.W. PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	38
FEDERAL AID PROJECT		CONTRACT 97634		

PARCEL # 03-14.0-400-010
O'FALLON TOWNSHIP HIGH SCHOOL DISTRICT # 203
DOC. NO A01853490

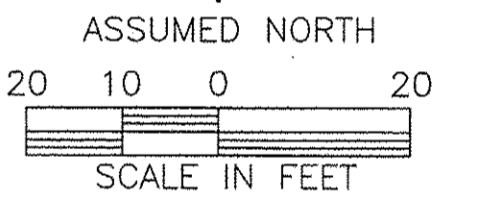
S.E. 1/4 SECTION 14



PARCEL # 03-23.0-200-008
ORVILLE W. KOMBRINK AND LAVERNE D. KOMBRINK
BOOK 2325, PAGE 2117
EXCEPT
BOOK 2709, PAGES 650 & 651

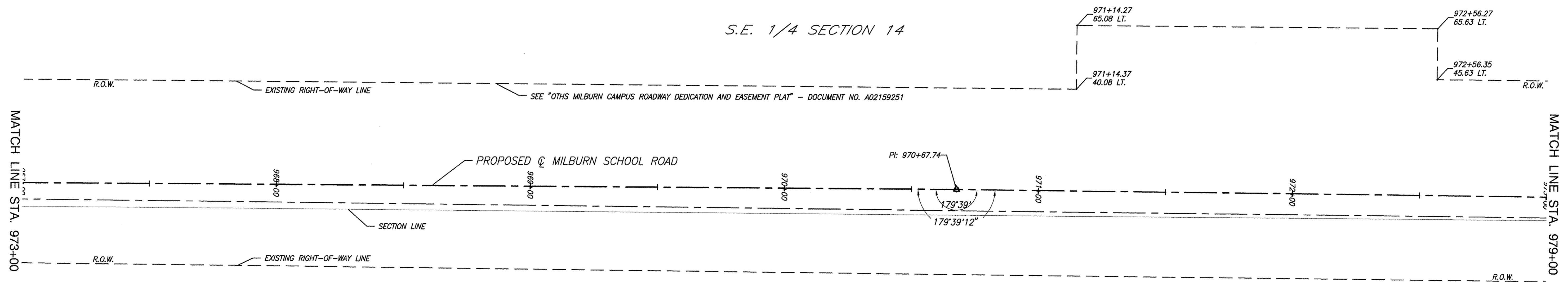
LEGEND

- EXISTING R.O.W.
- - - PROPOSED TEMPORARY EASEMENT
- CONCRETE MONUMENT FOUND



PARCEL # 03-14.0-400-010
O'FALLON TOWNSHIP HIGH SCHOOL DISTRICT # 203
DOC. NO A01853490

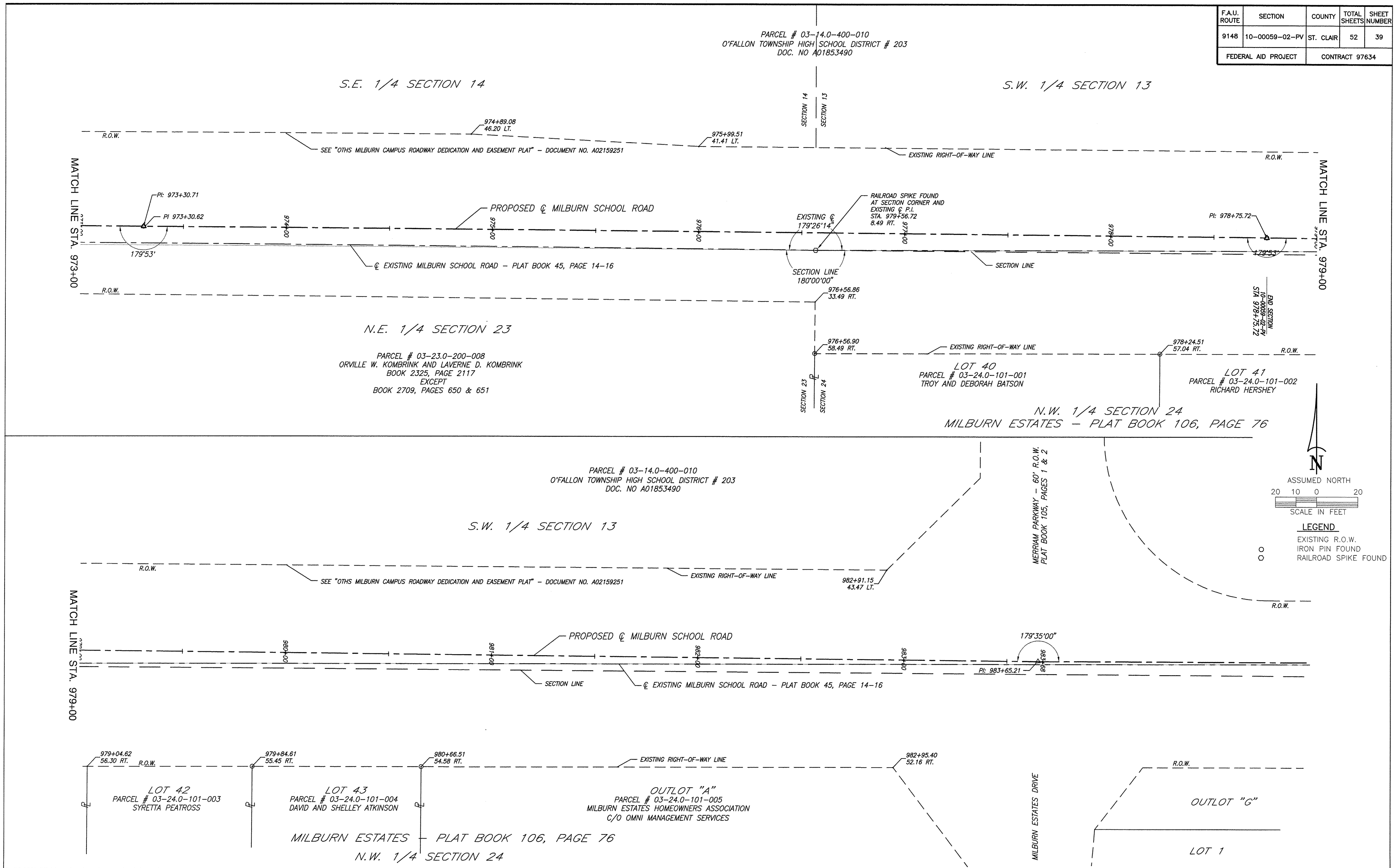
S.E. 1/4 SECTION 14



PARCEL # 03-23.0-200-008
ORVILLE W. KOMBRINK AND LAVERNE D. KOMBRINK
BOOK 2325, PAGE 2117
EXCEPT
BOOK 2709, PAGES 650 & 651

N.E. 1/4 SECTION 23

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	39
FEDERAL AID PROJECT			CONTRACT 97634	



ASSUMED NORTH

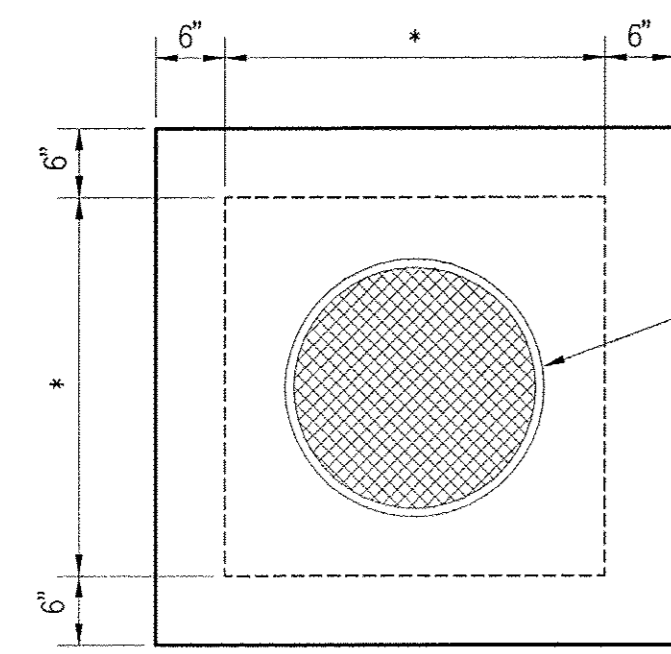
SCALE IN FEET

LEGEND

- \odot EXISTING R.O.W.
- \circ IRON PIN FOUND
- \circ RAILROAD SPIKE FOUND

R.O.W. PLAN MILBURN SCHOOL ROAD - PHASE 3 IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	40
FEDERAL AID PROJECT		CONTRACT 97634		

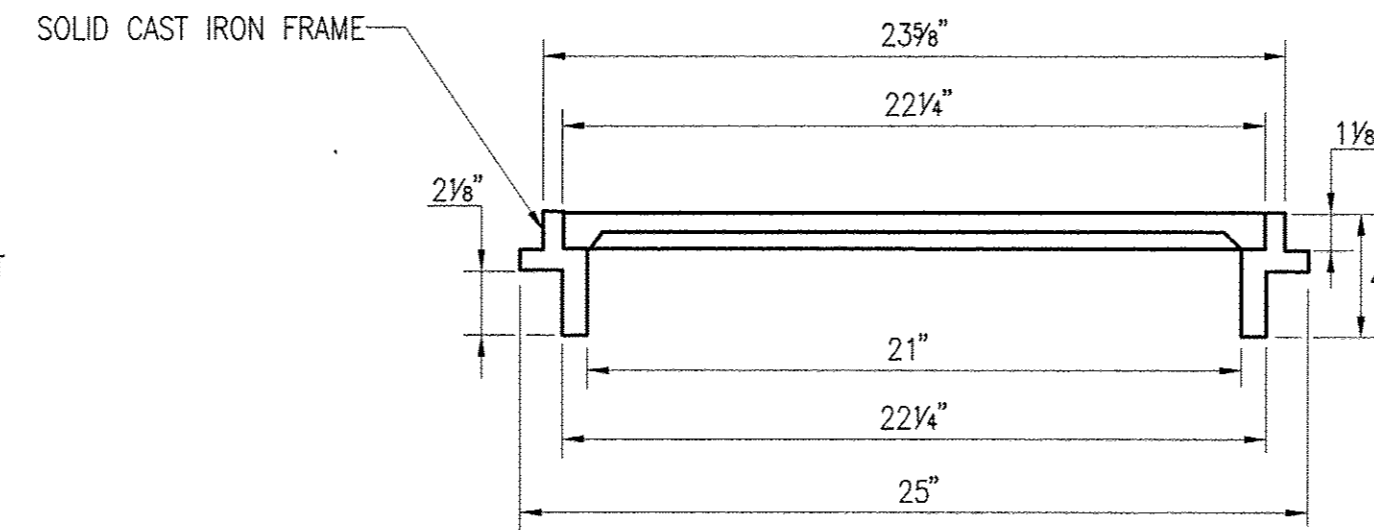


PRECAST LID DETAIL

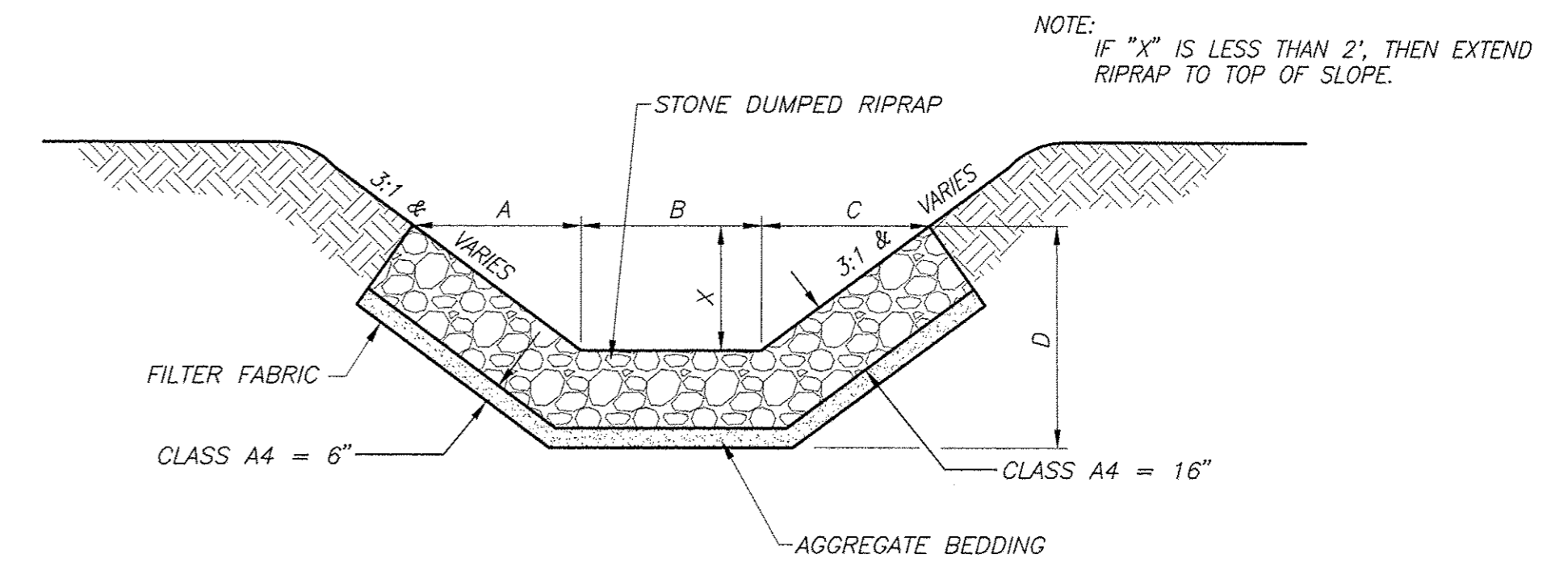
FRAME AND CLOSED LID (SEE DETAIL) INCLUDED IN THE COST OF THE INLET

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

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

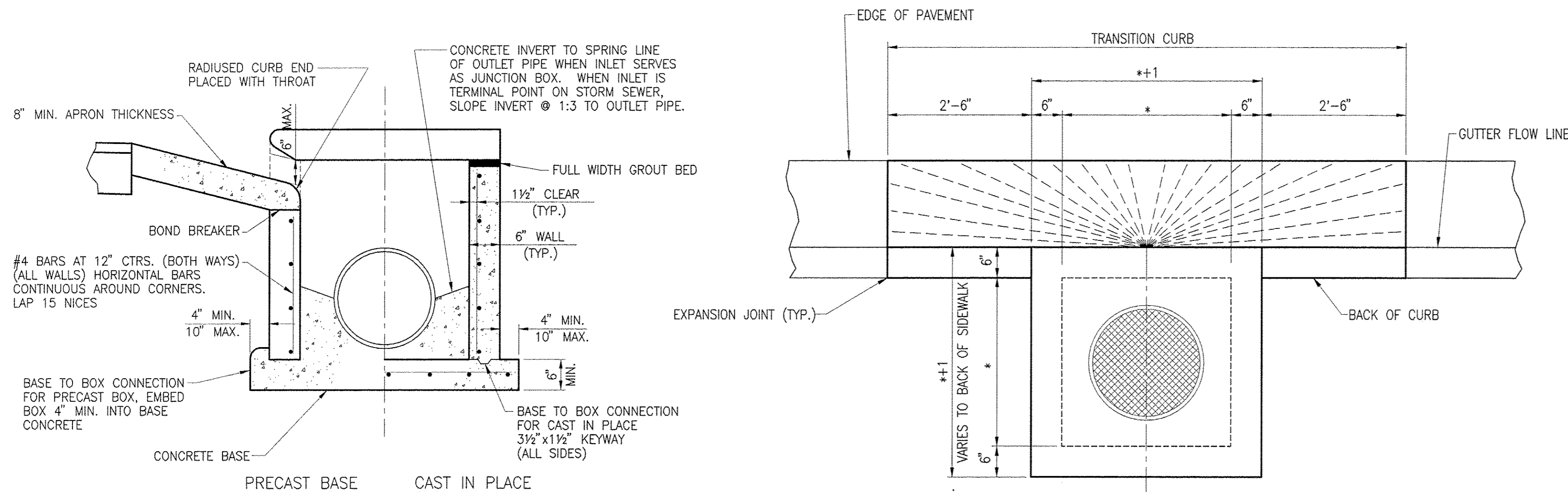


FRAME AND CLOSED LID



STONE DUMPED RIPRAP DITCH LINING

N.T.S.



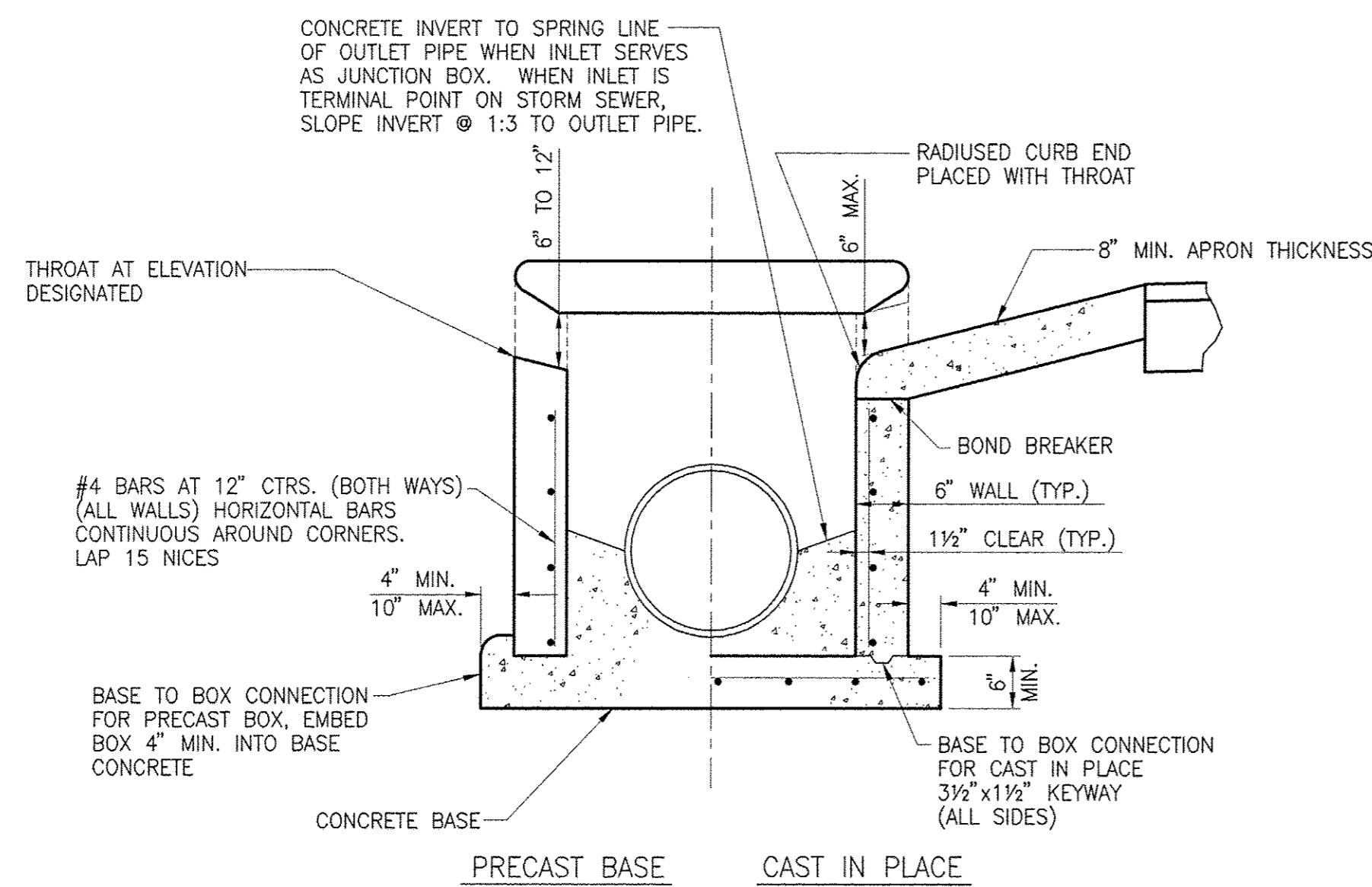
END VIEW

INLETS, SPECIAL, NO. 1, 2 & 3

PLAN

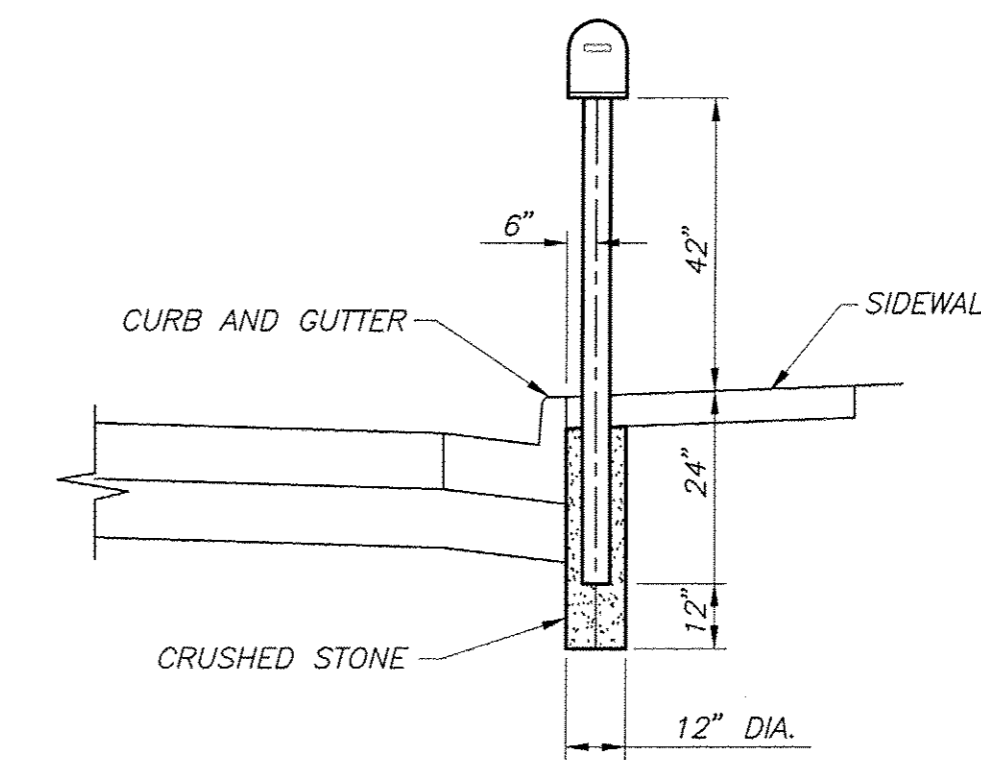
N.T.S.

NOTE: FULL WIDTH GROUT BED USED ON SIDES WITHOUT OPENINGS.



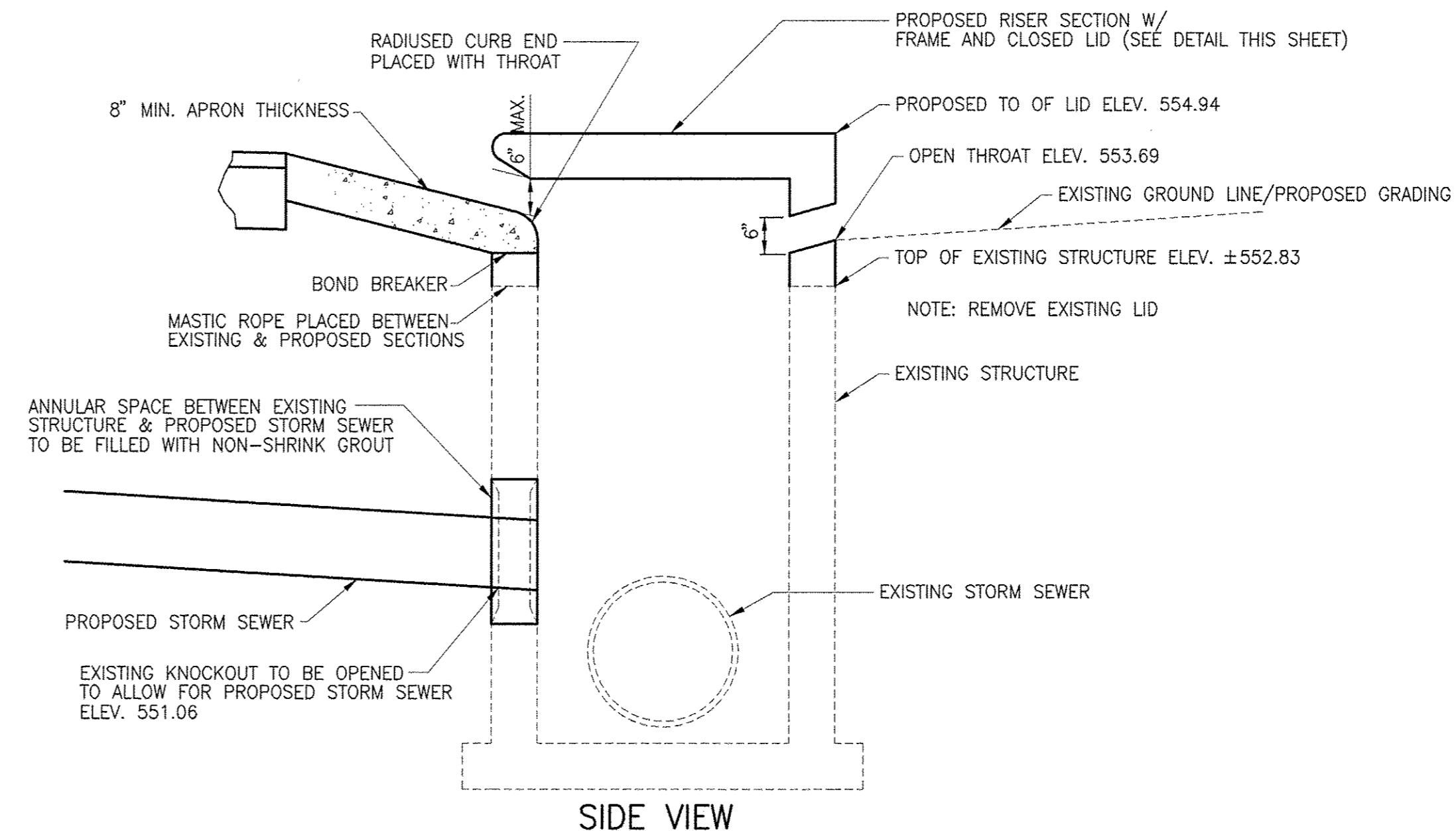
INLET SPECIAL W/THROATED OPENINGS

N.T.S.



MAILBOX LOCATION DETAIL

N.T.S.

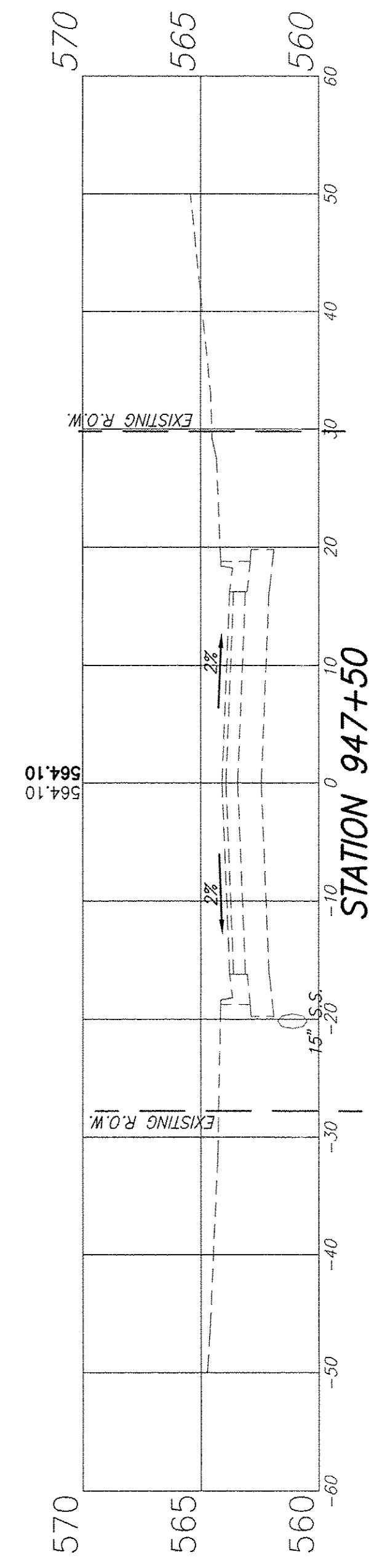
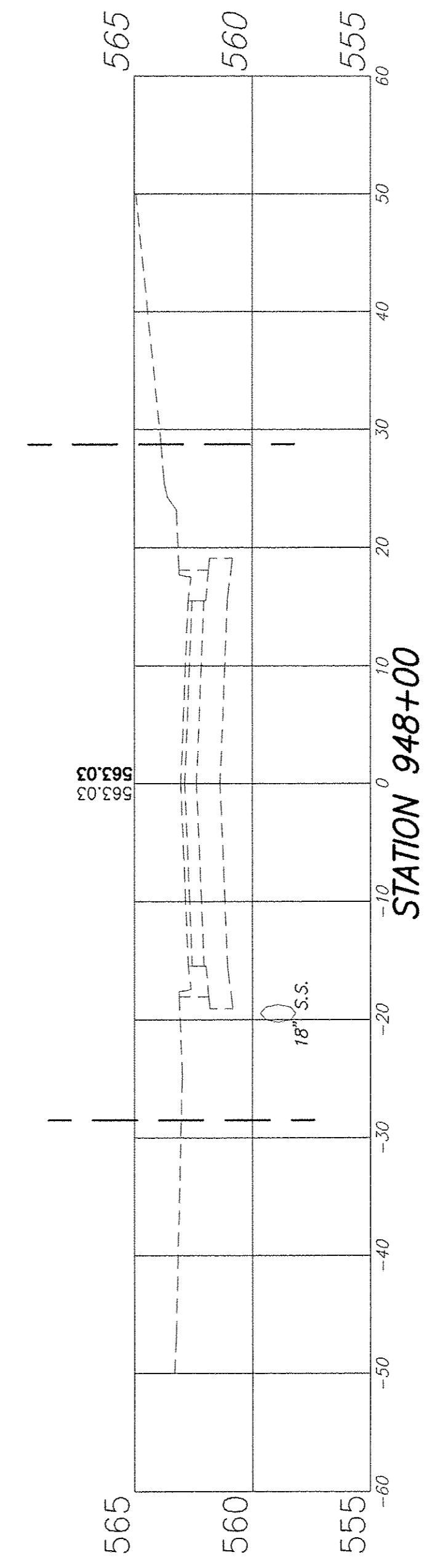
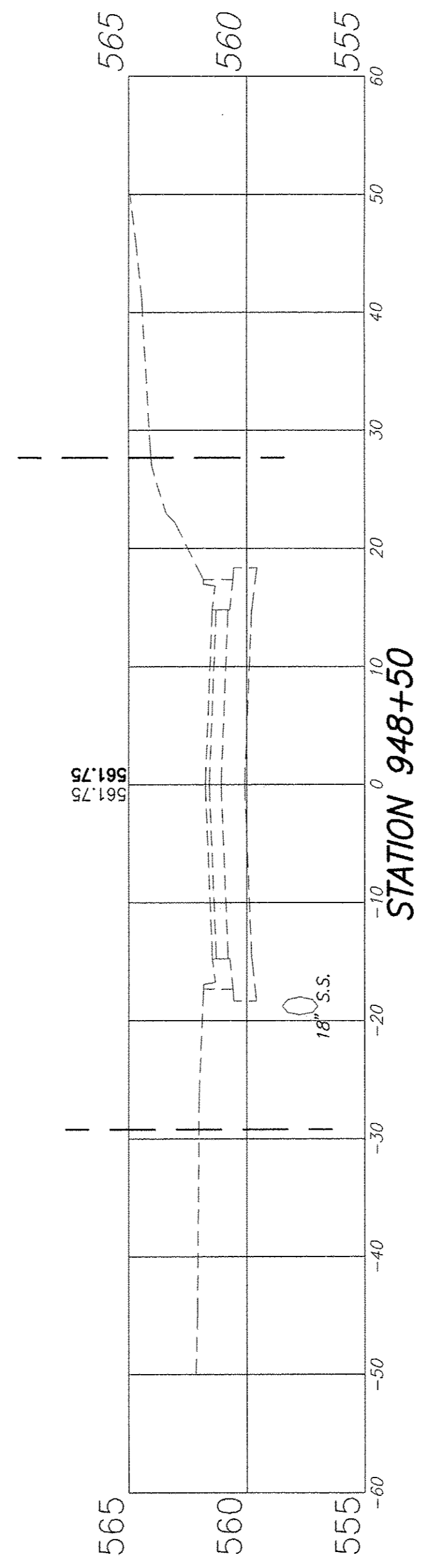
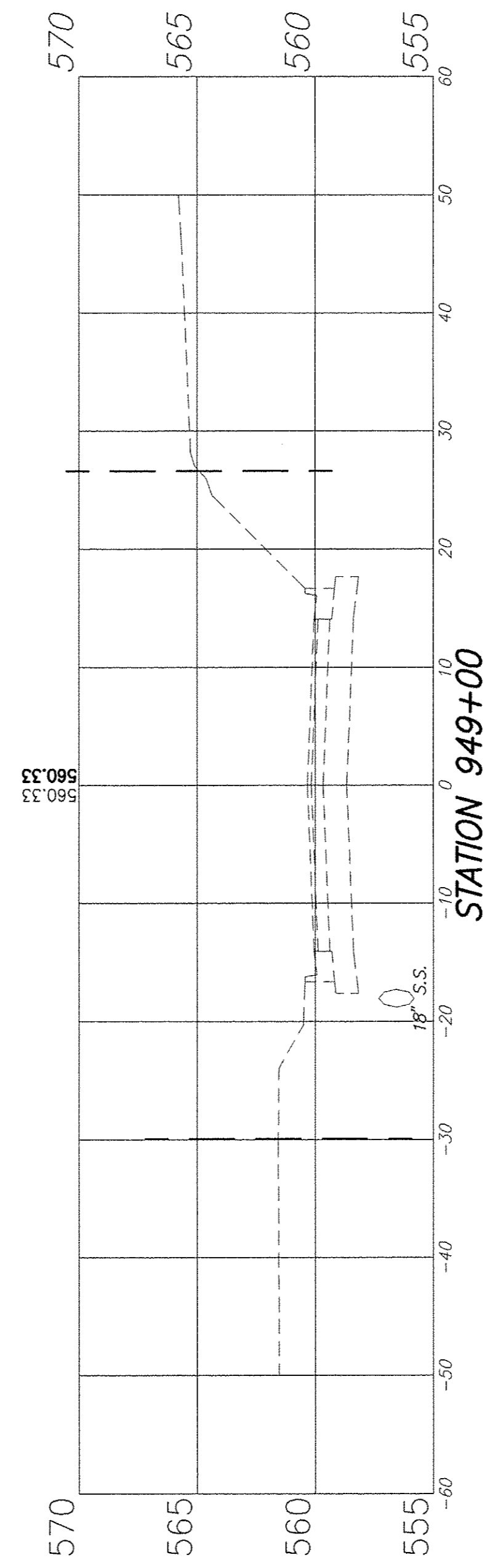
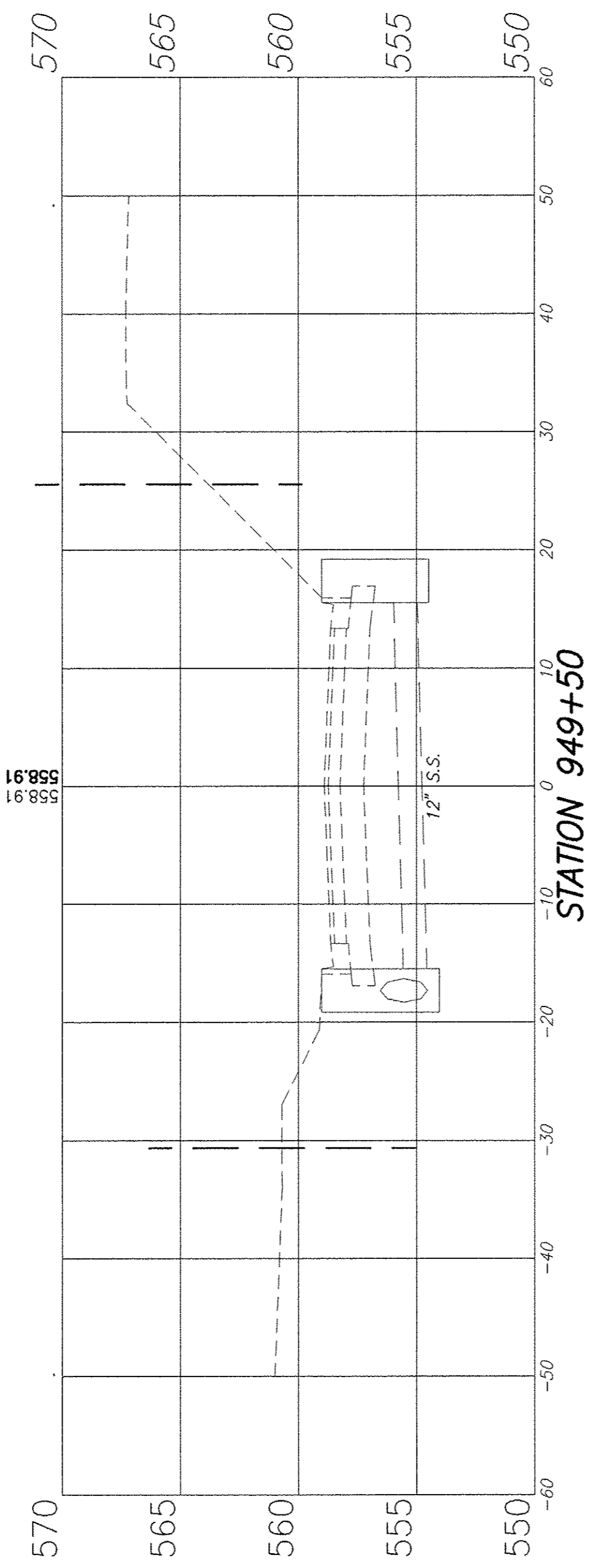
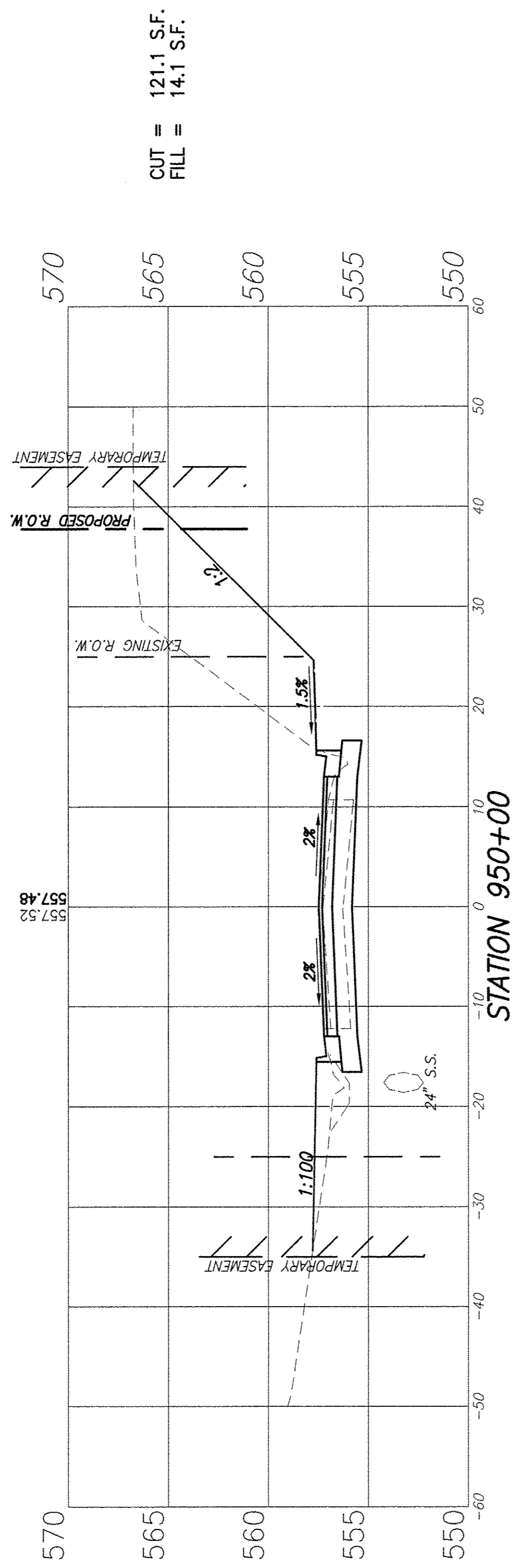
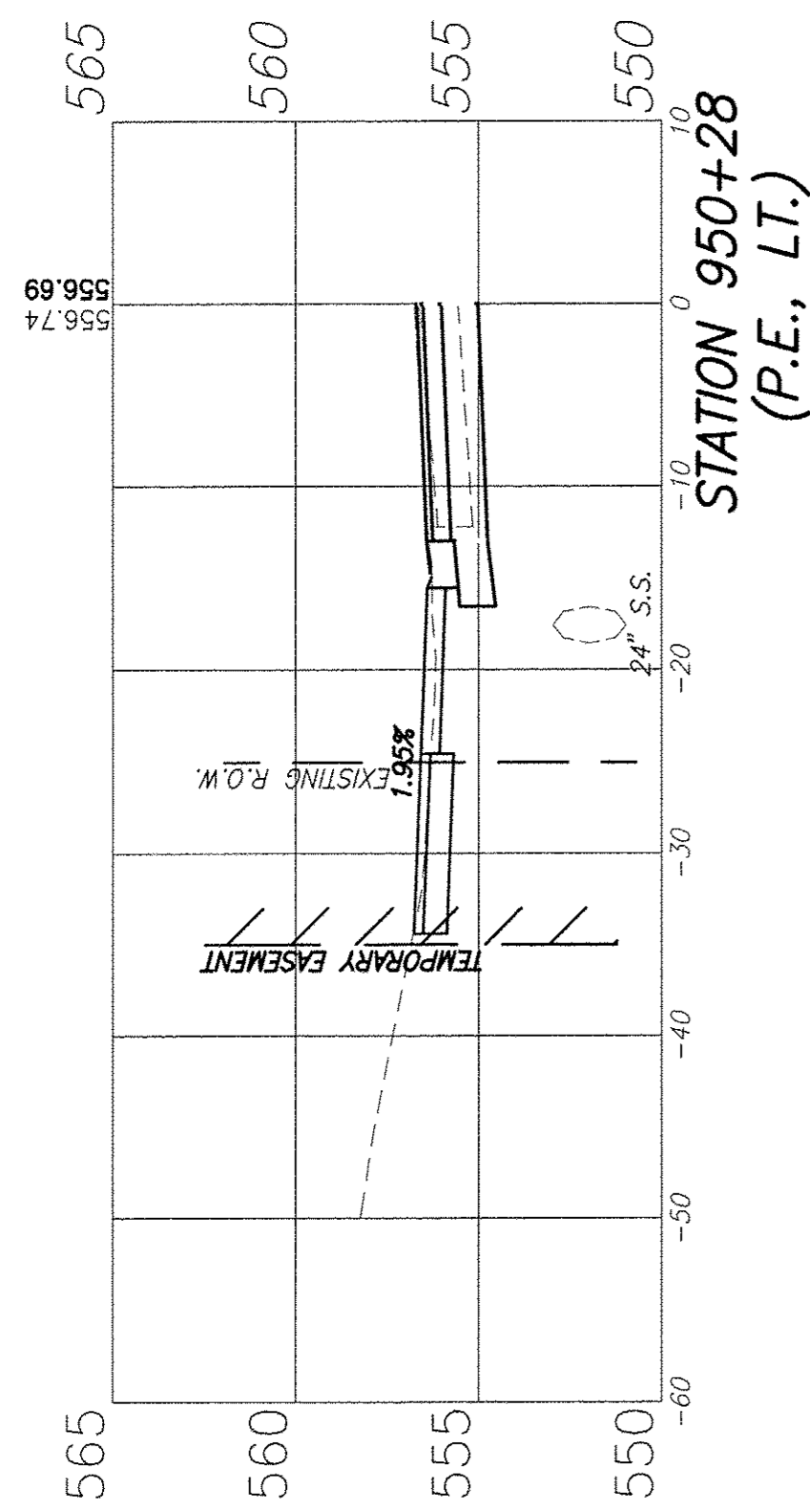


SIDE VIEW

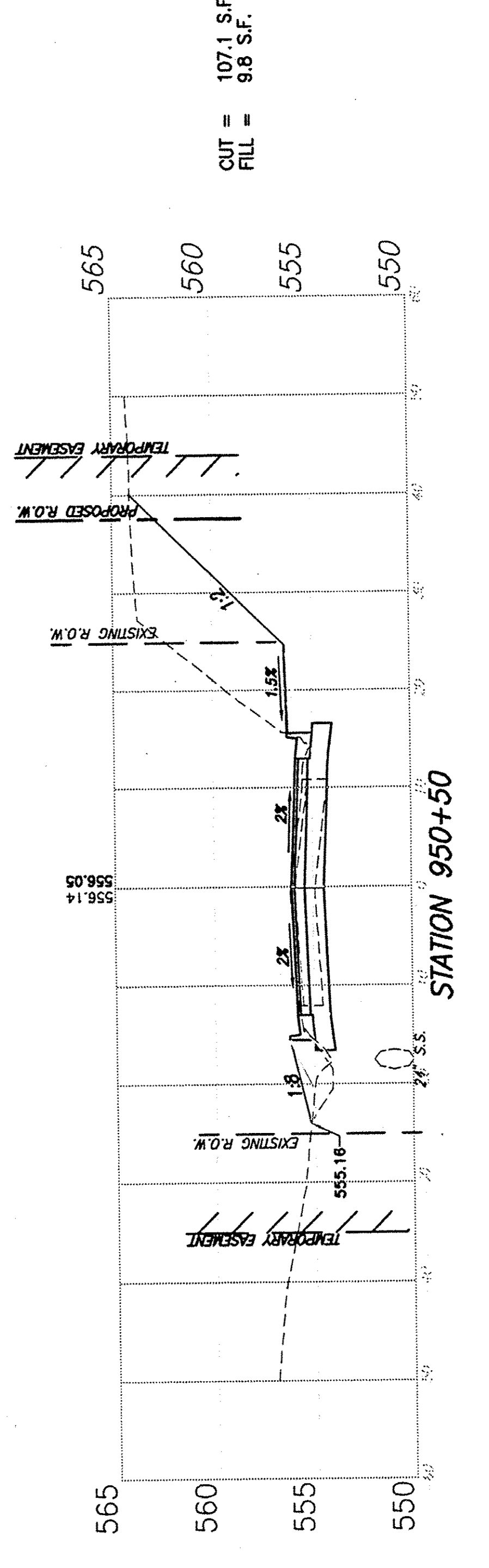
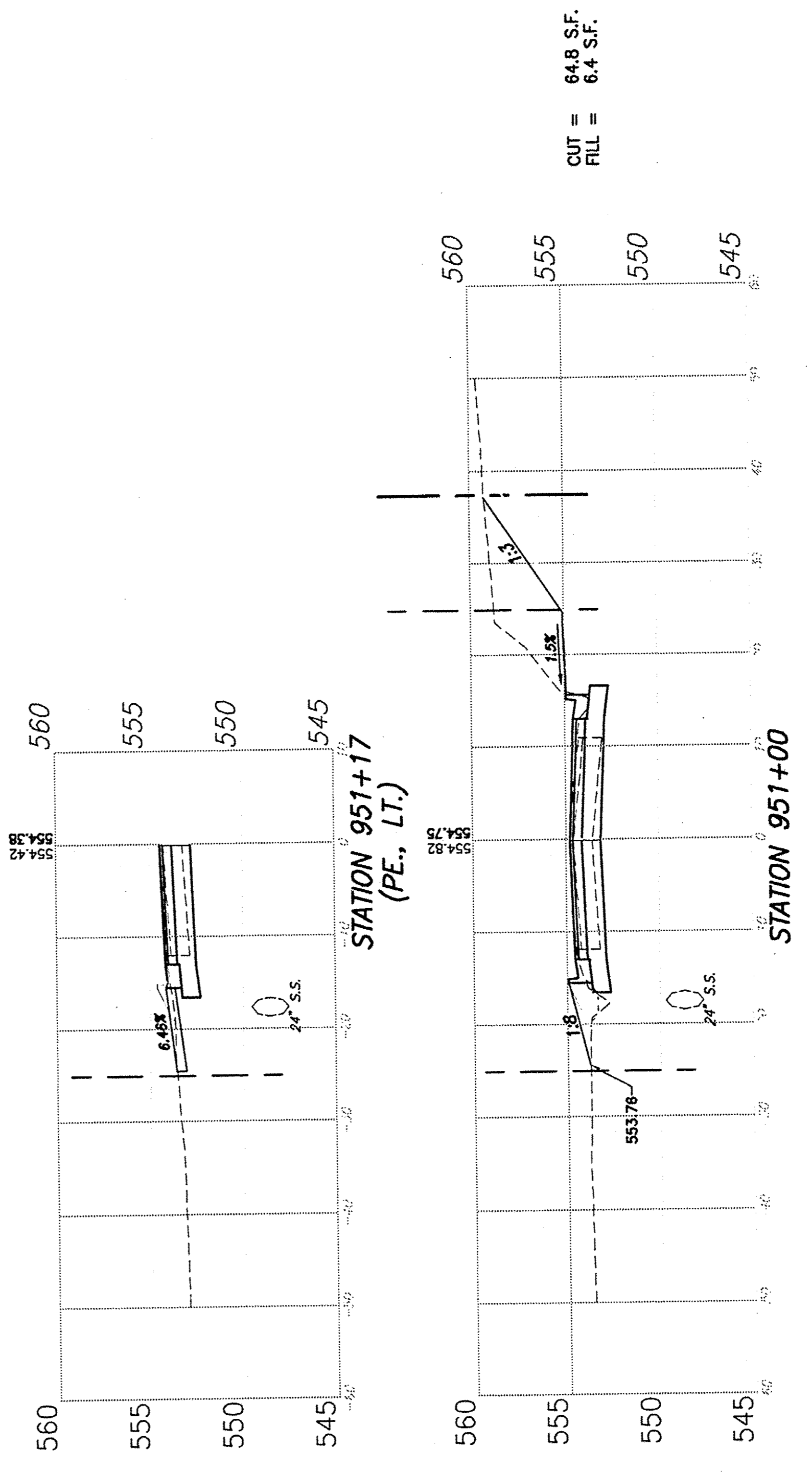
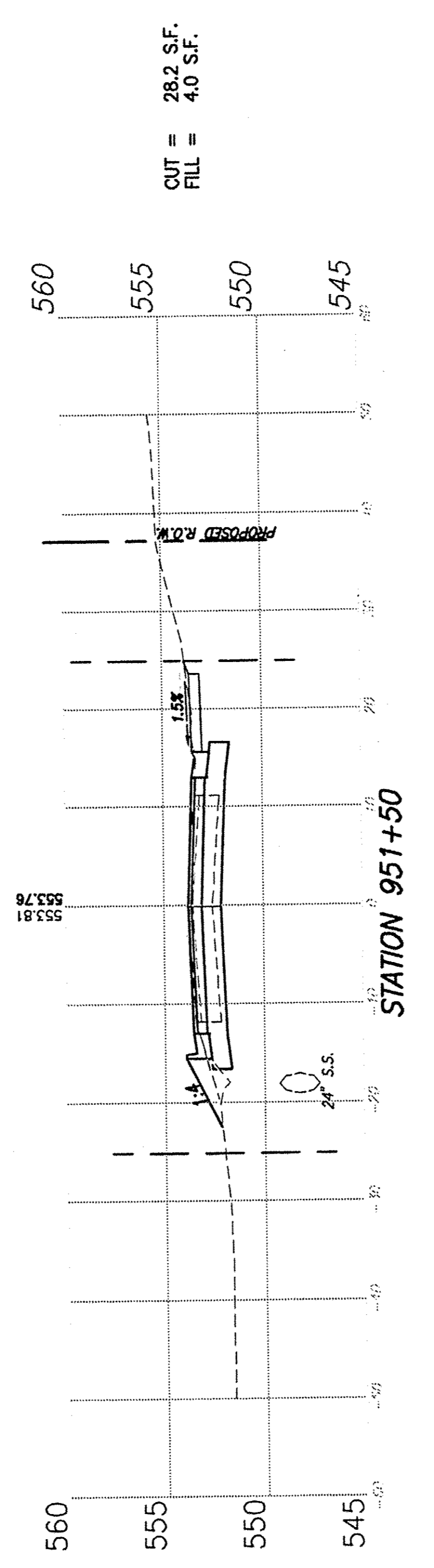
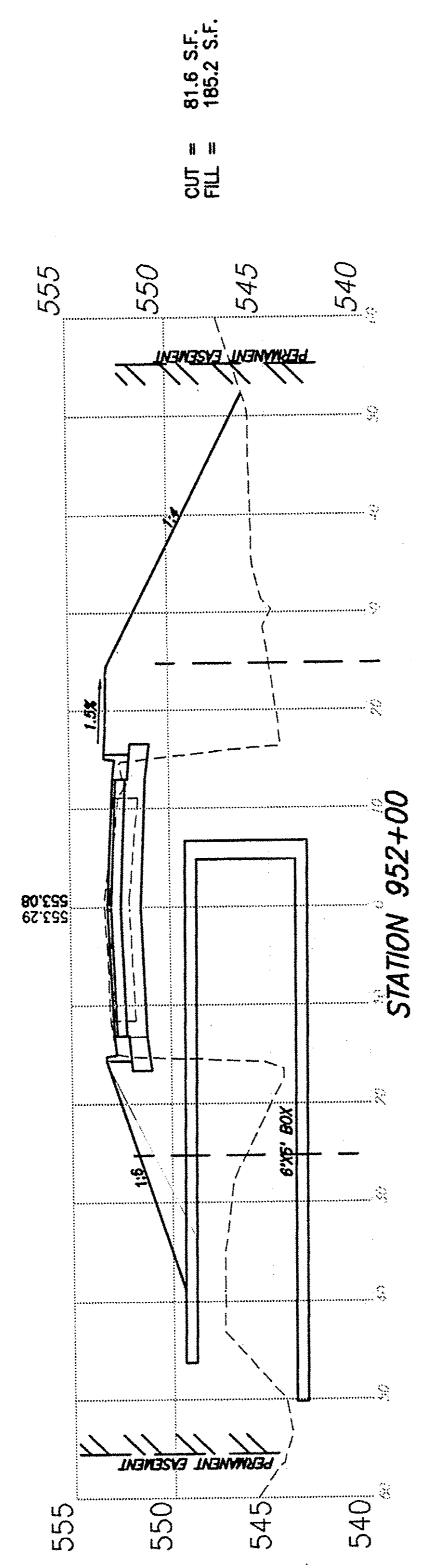
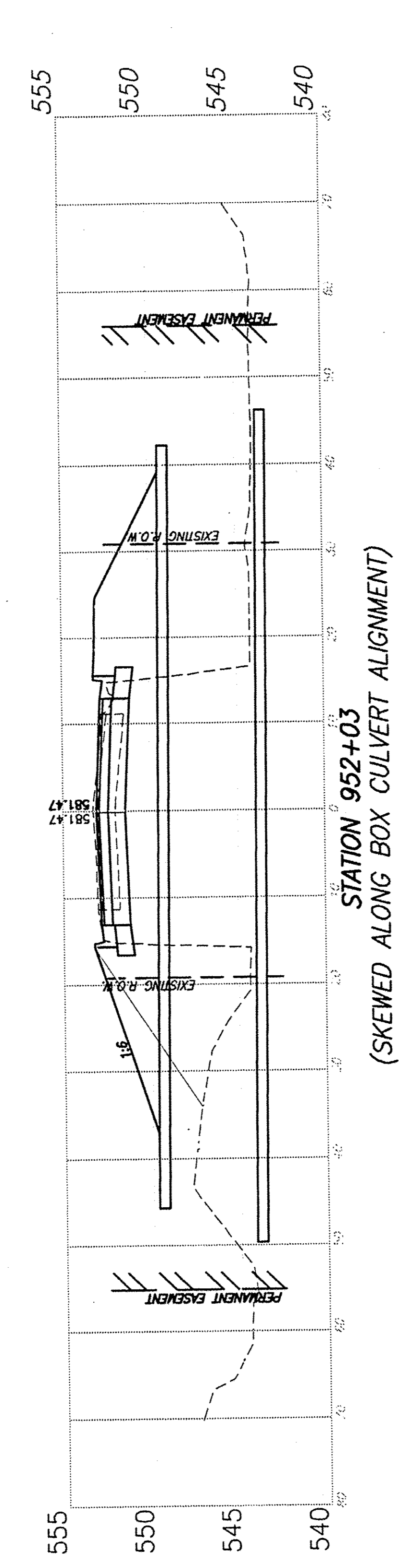
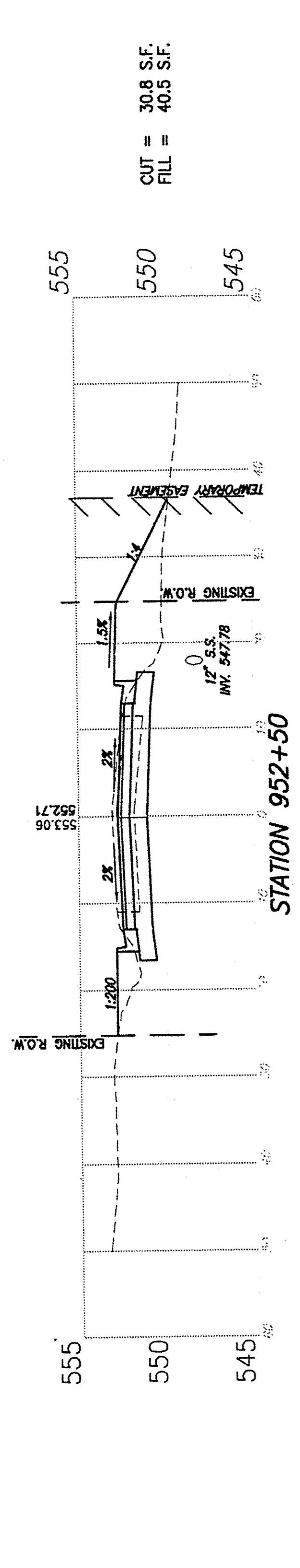
INLETS TO BE ADJUSTED (SPECIAL)

N.T.S.

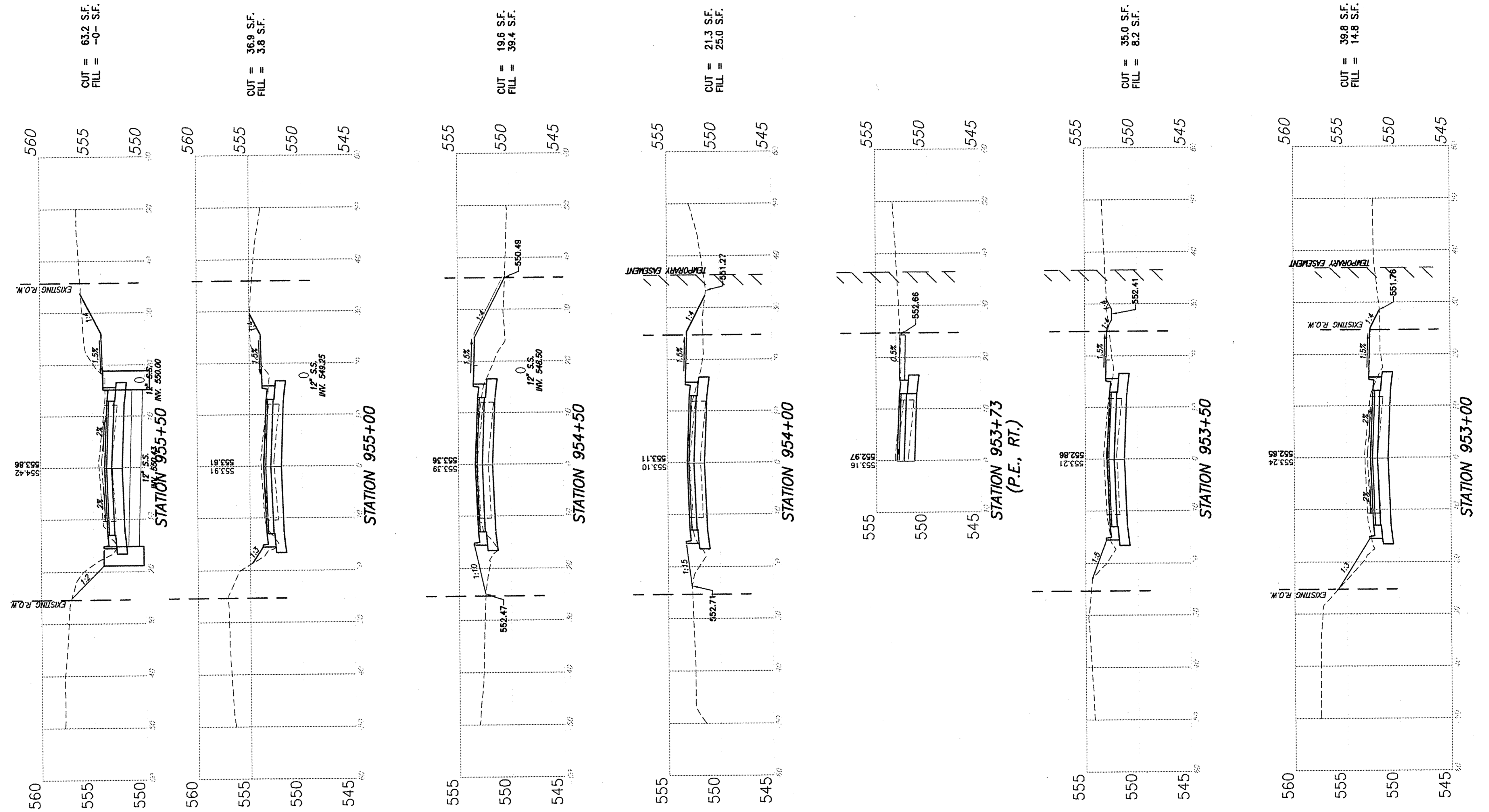
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	41
FEDERAL AID PROJECT		CONTRACT 97634		



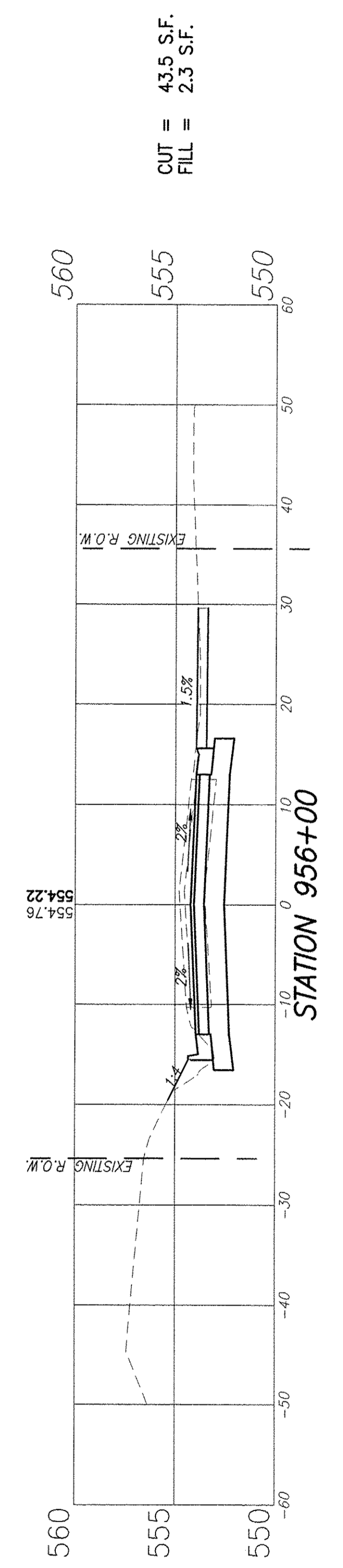
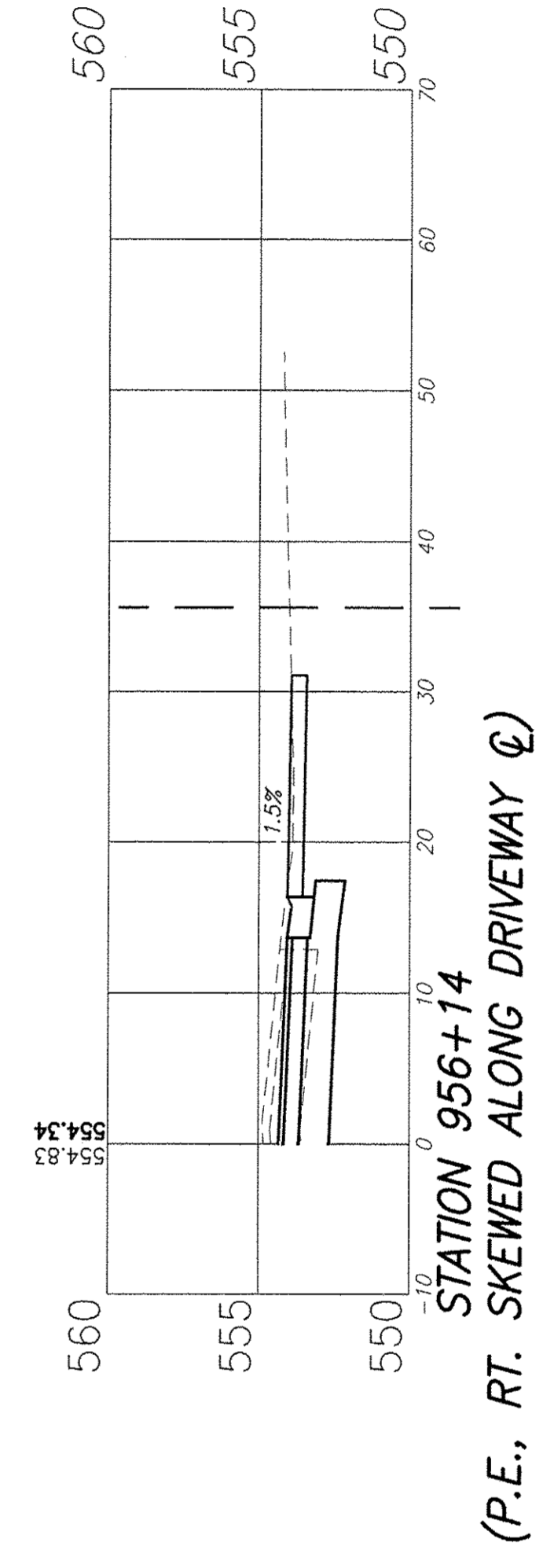
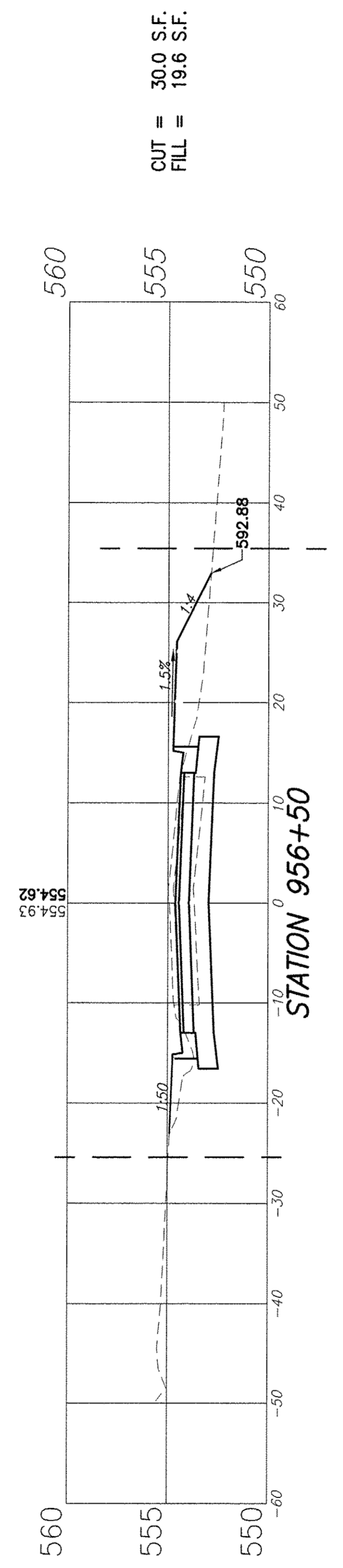
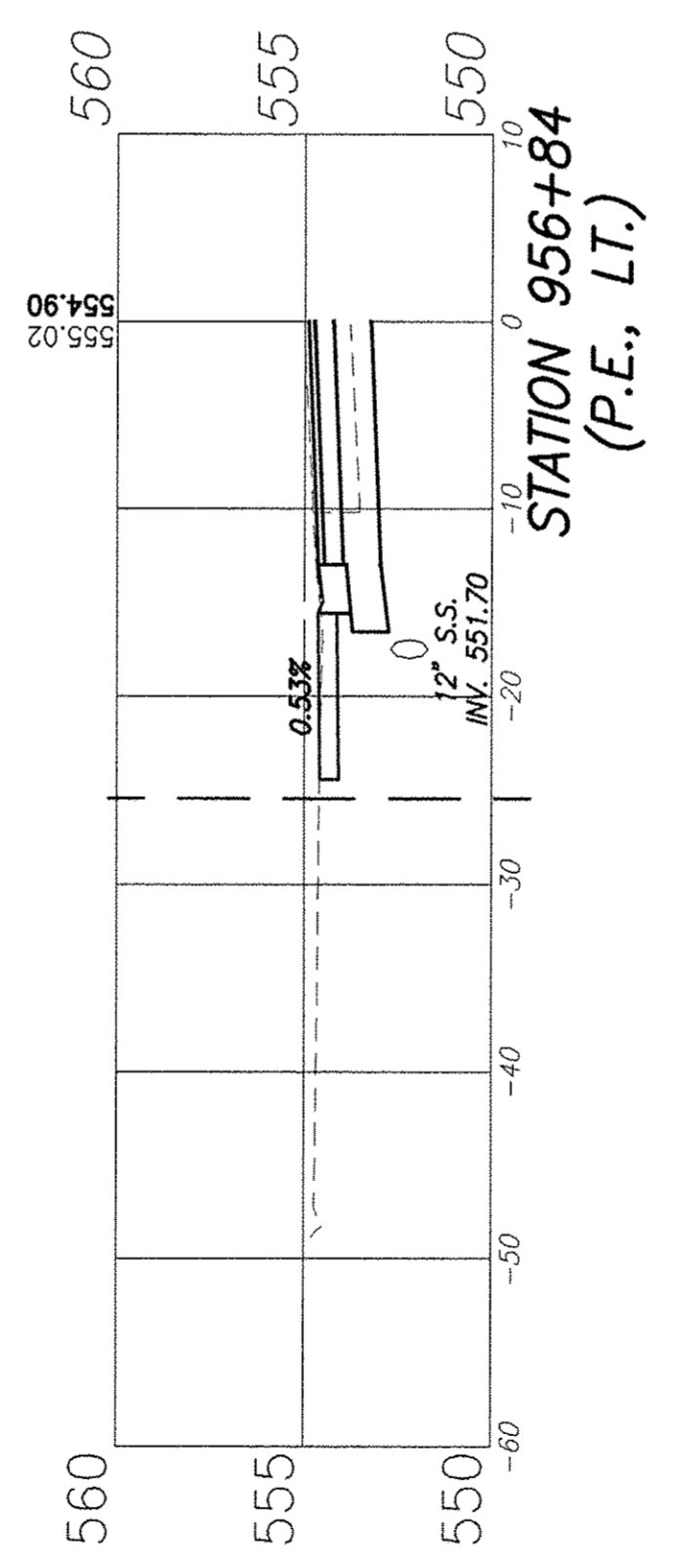
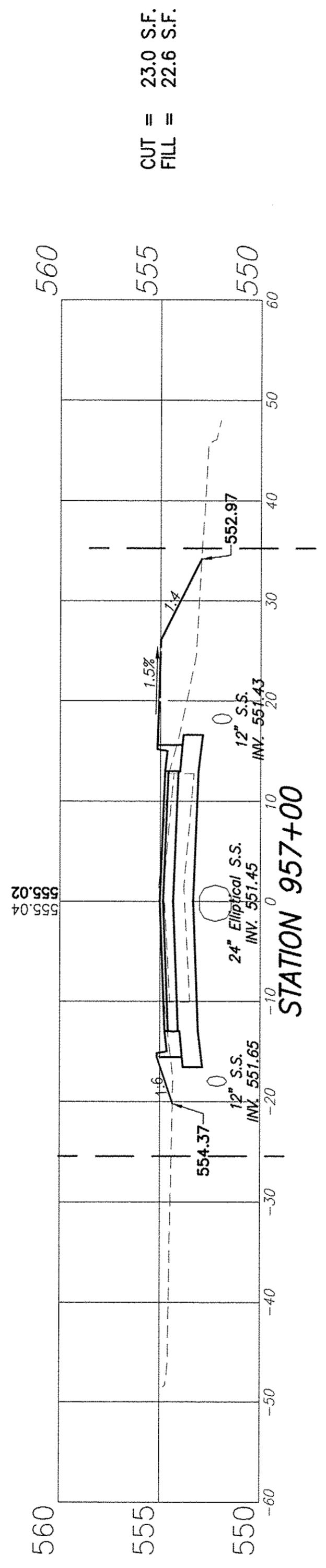
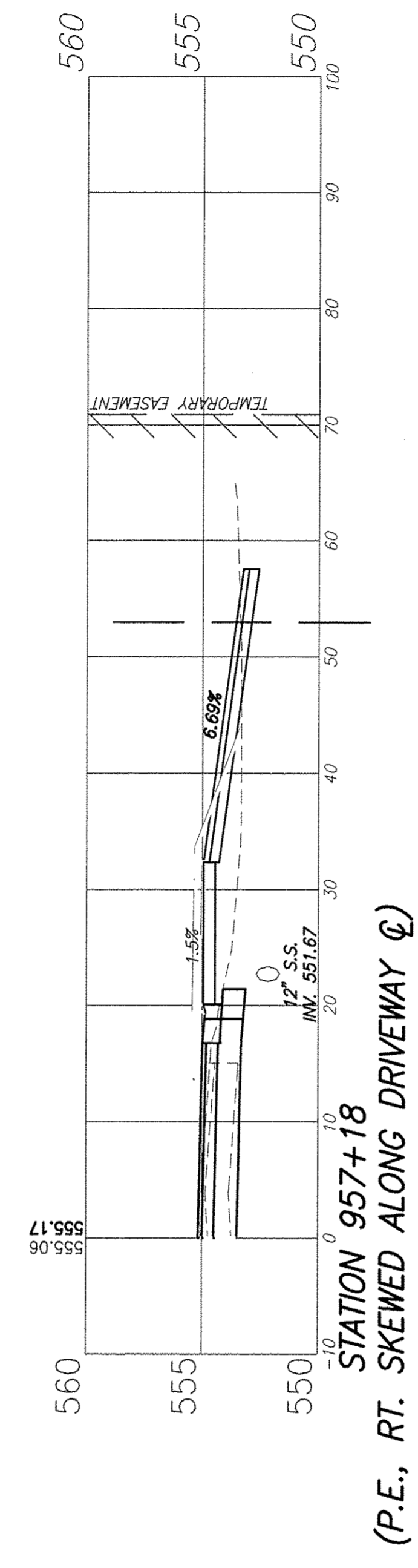
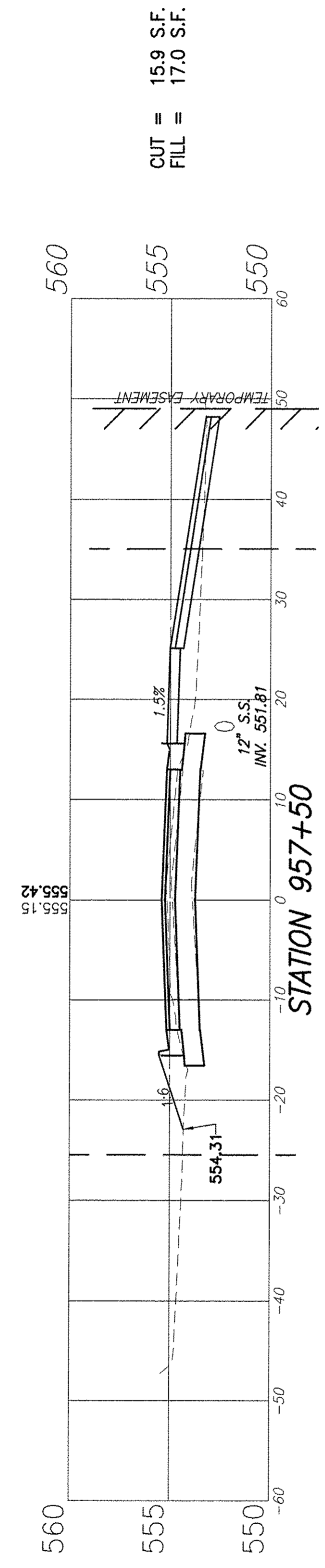
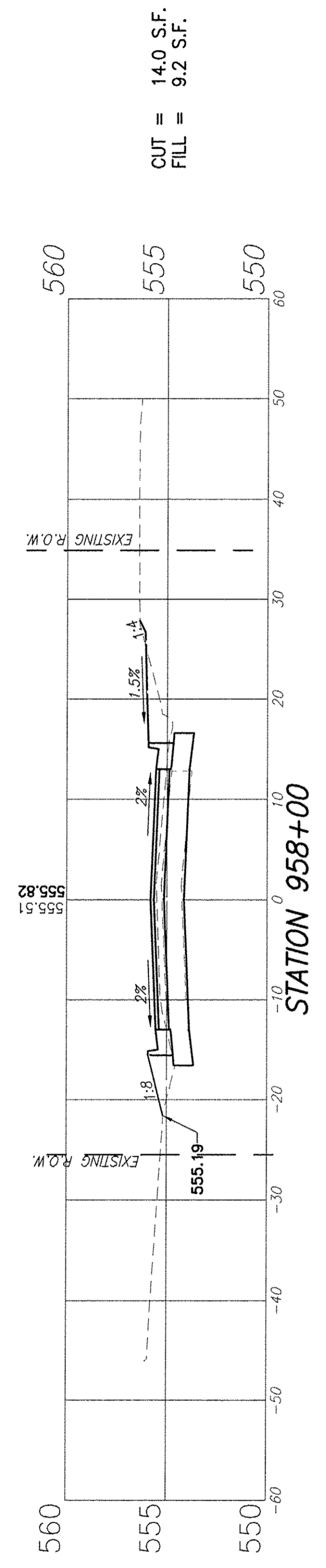
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	42
FEDERAL AID PROJECT			CONTRACT 97634	



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	43
FEDERAL AID PROJECT			CONTRACT 97634	

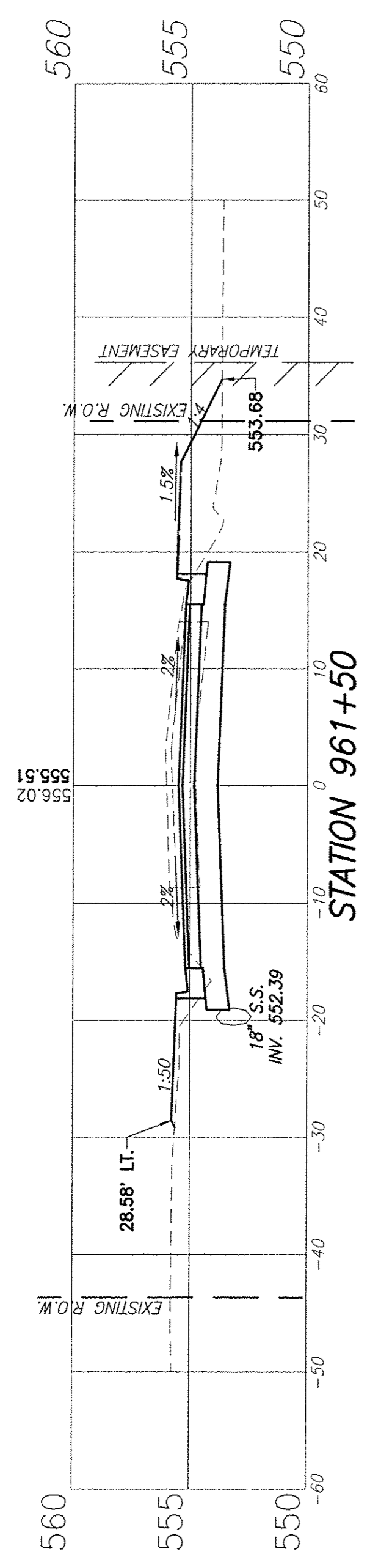


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	44
FEDERAL AID PROJECT		CONTRACT 97634		

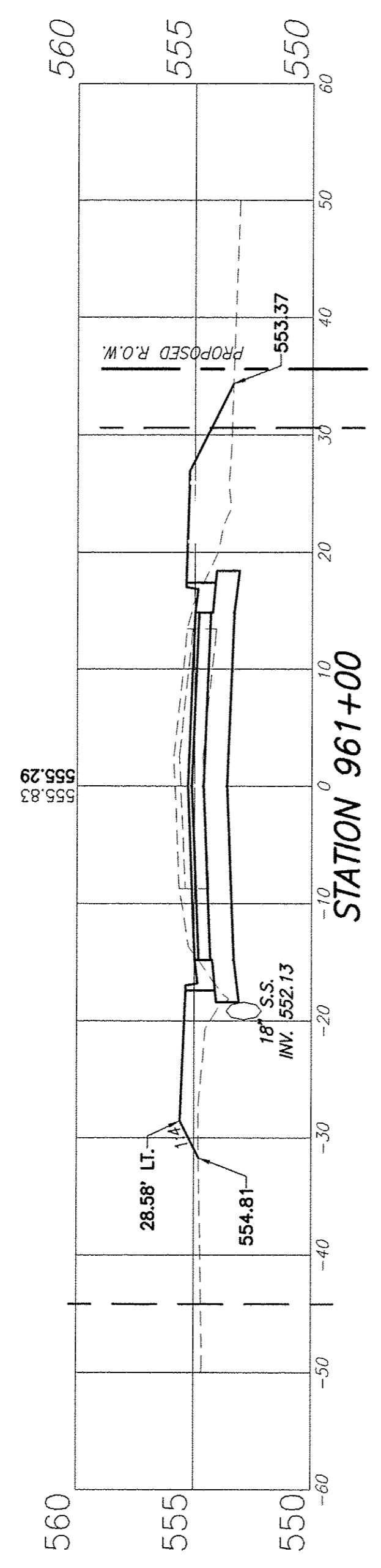


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	45
FEDERAL AID PROJECT		CONTRACT 97634		

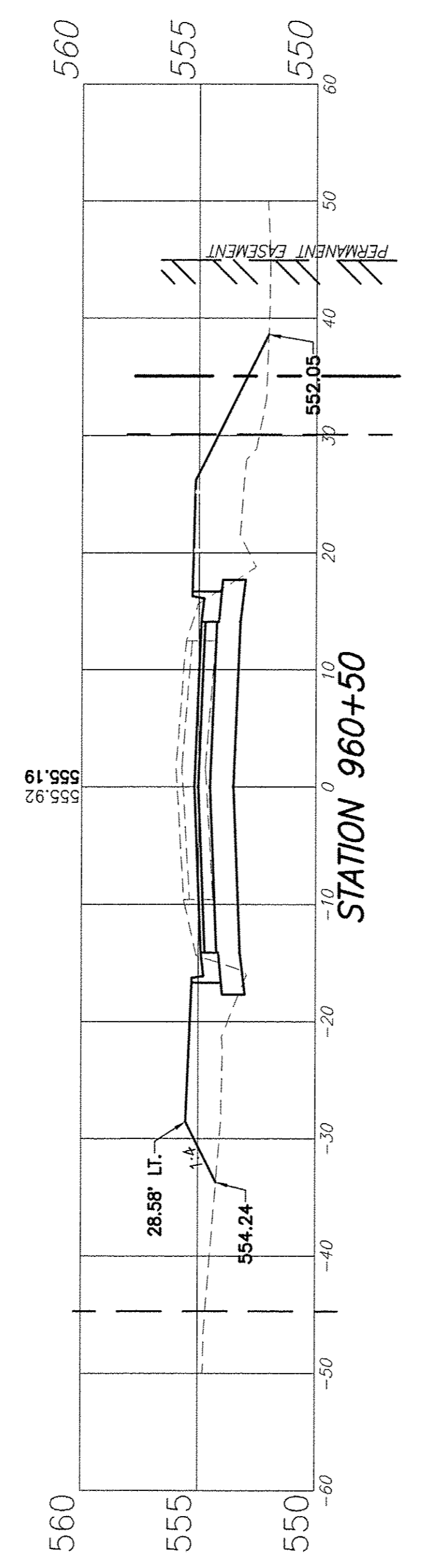
CUT = 9.4 S.F.
FILL = 24.2 S.F.



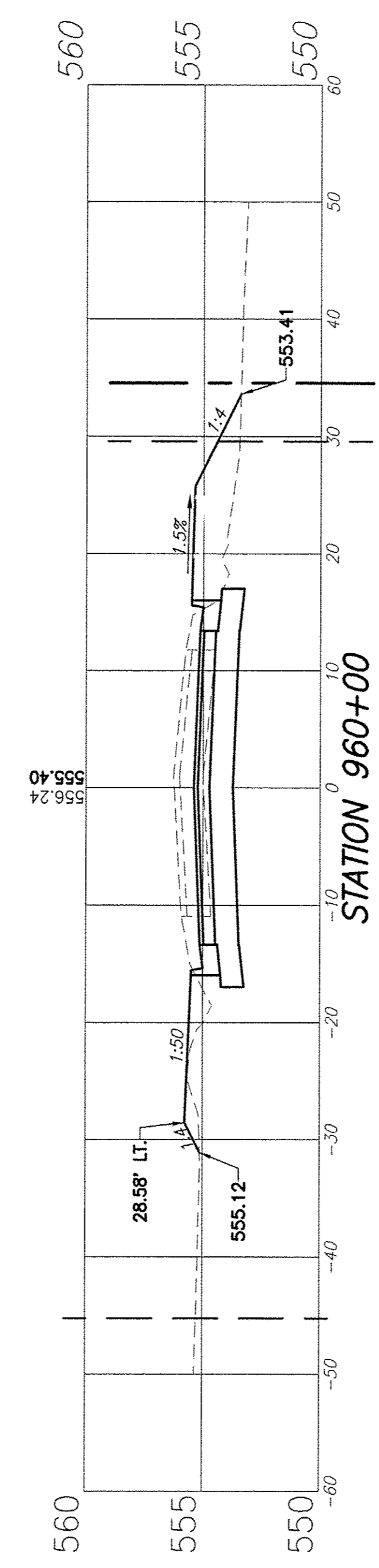
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FILL = 32.3 S.F.



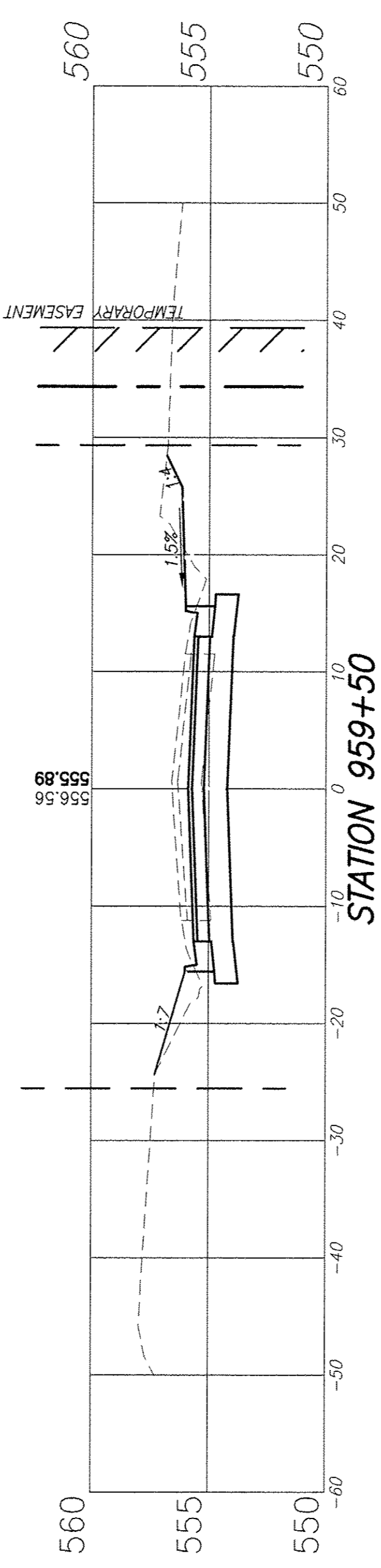
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FILL = 57.3 S.F.



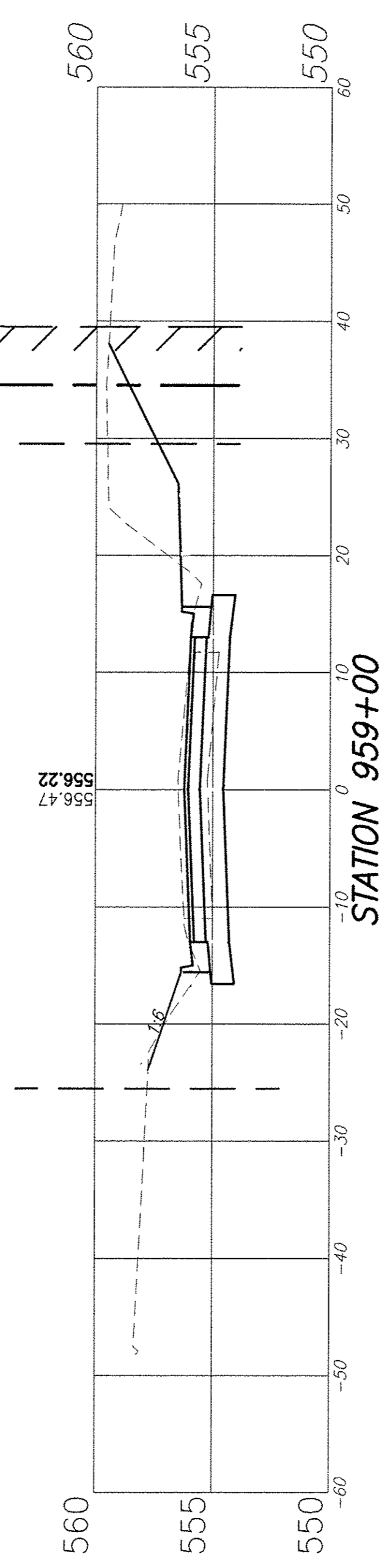
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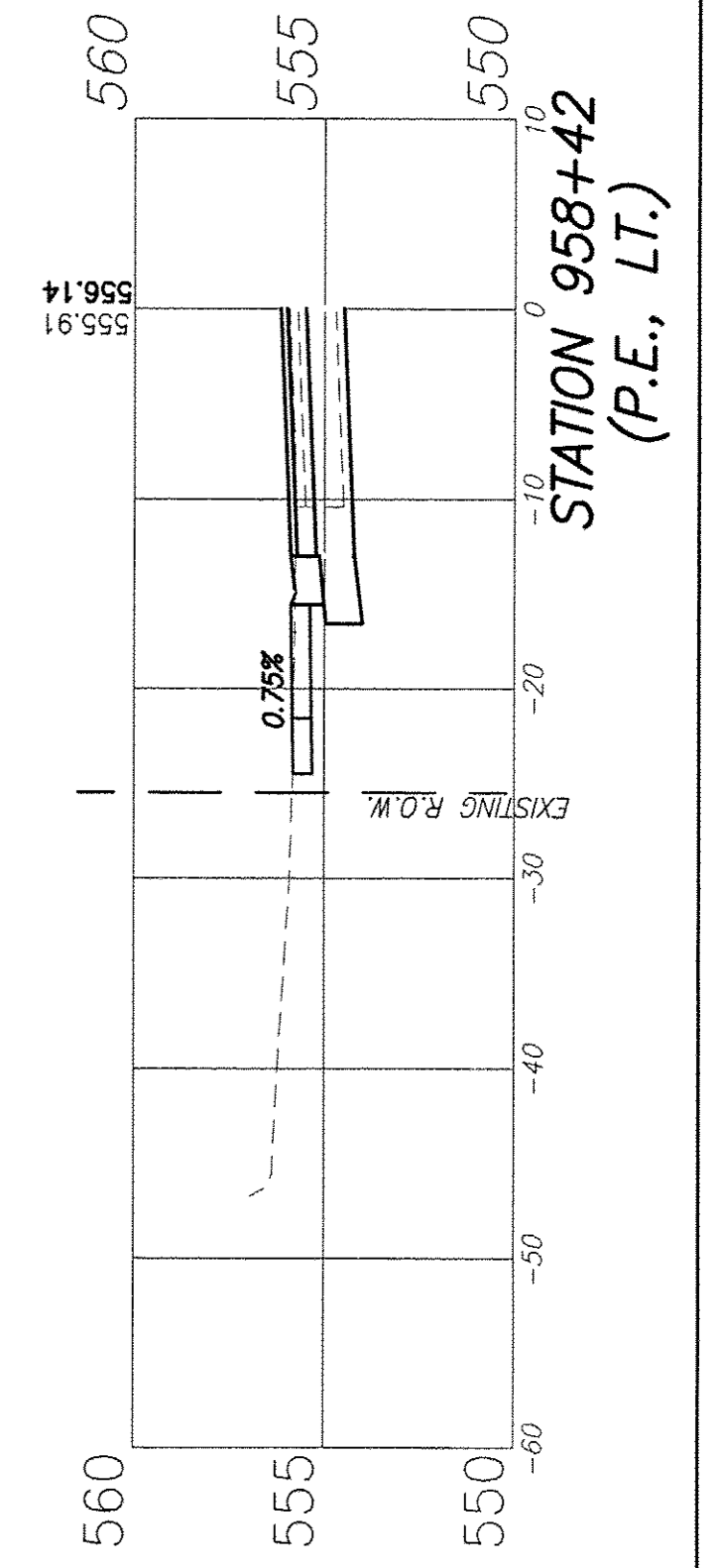
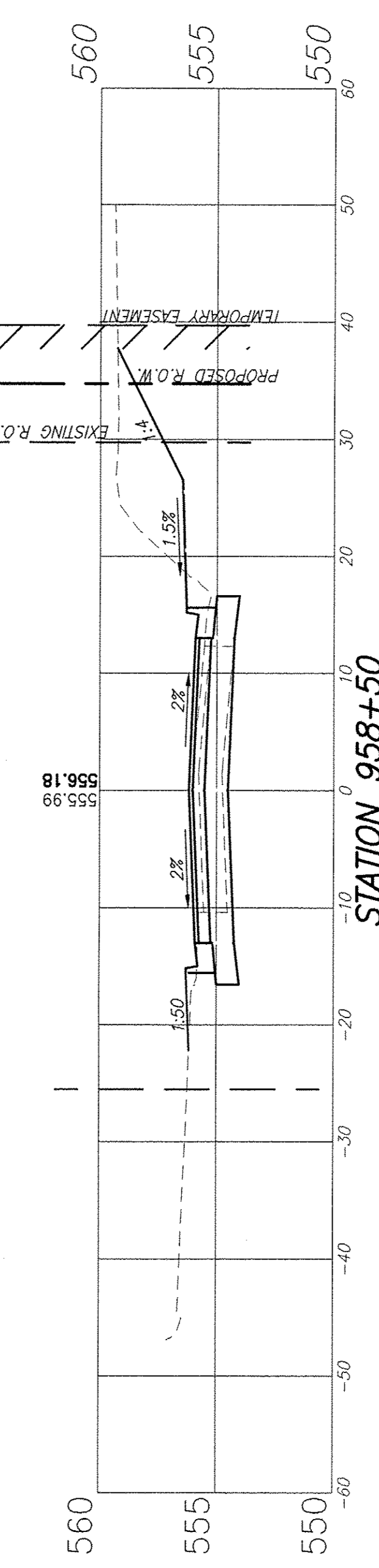
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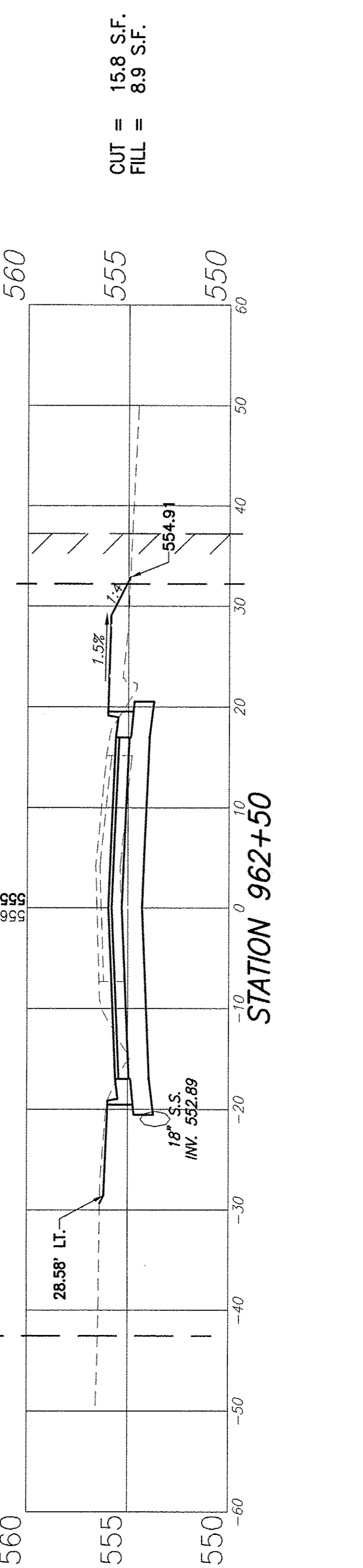
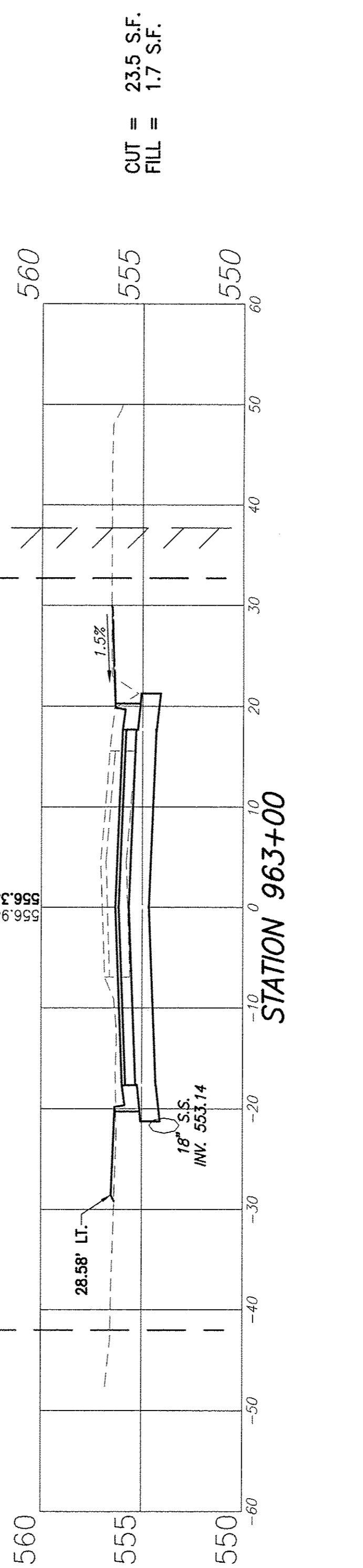
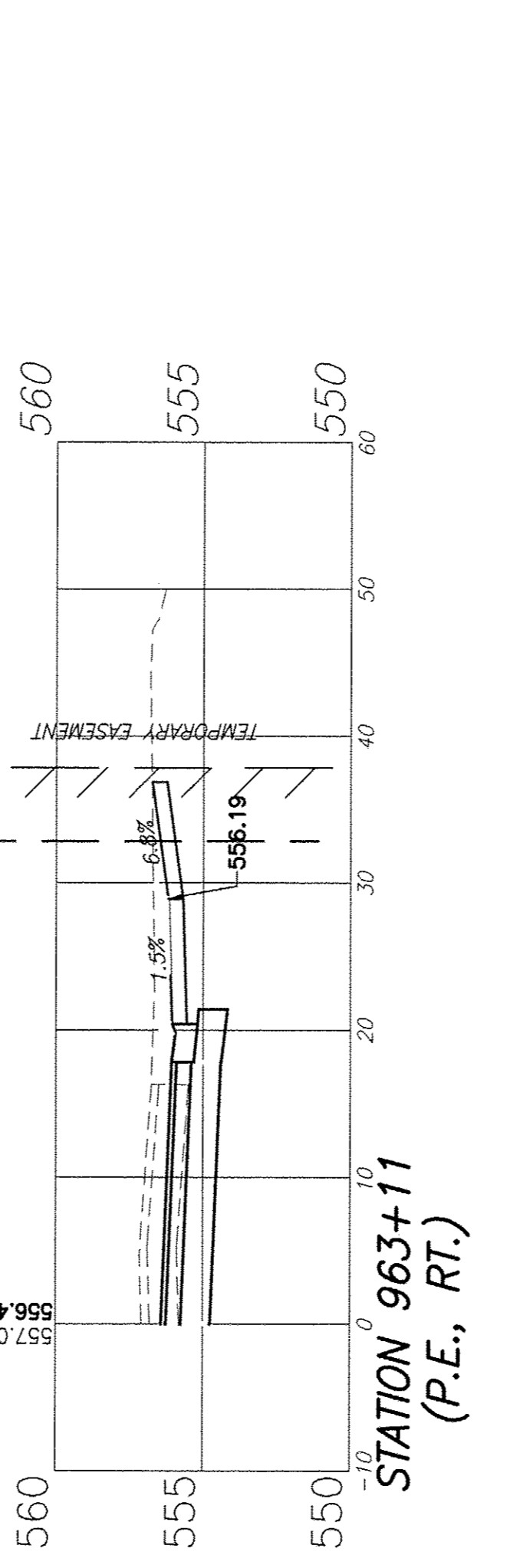
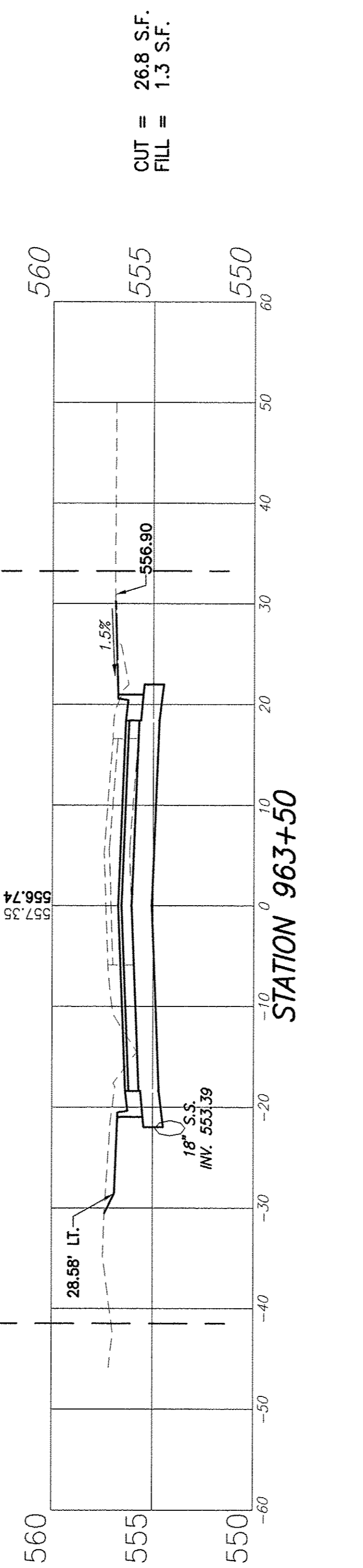
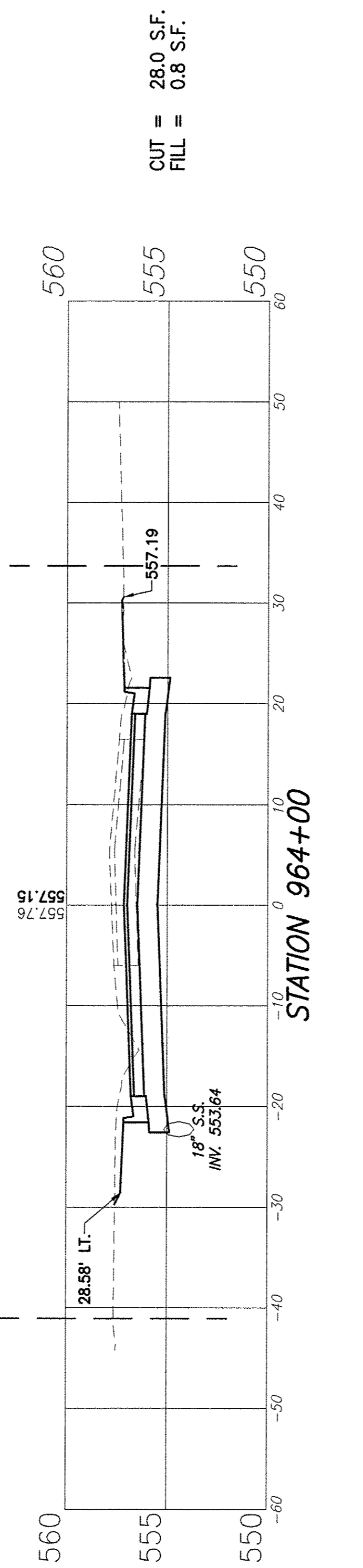
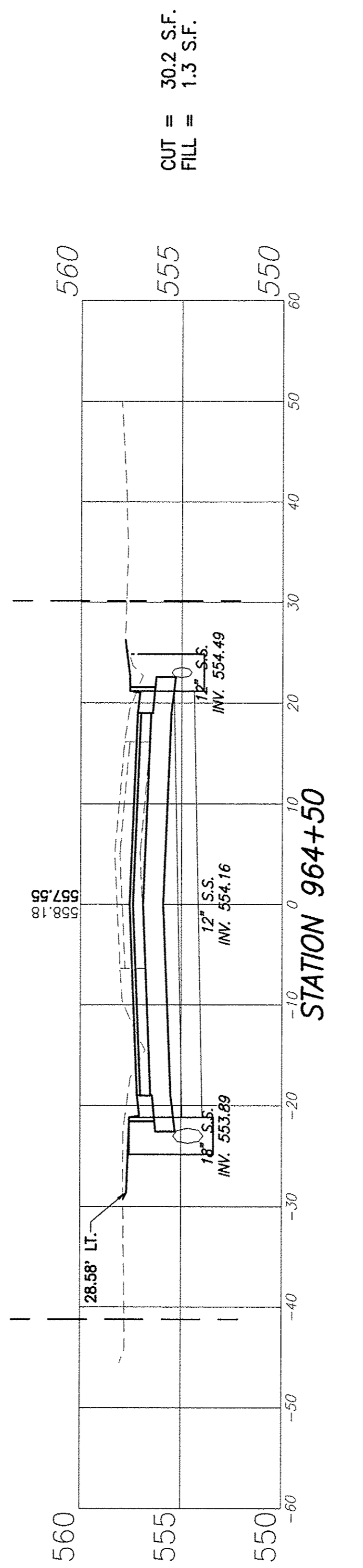
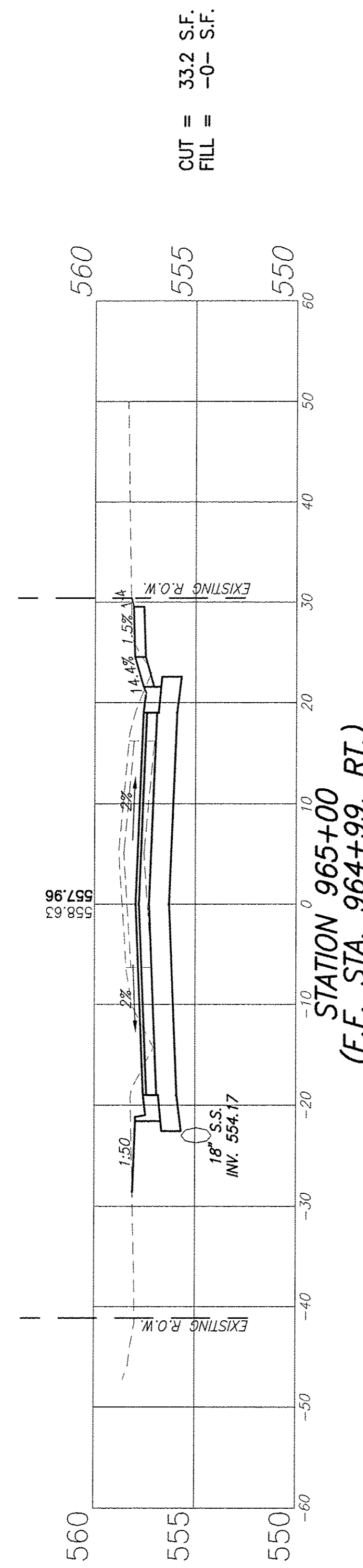
CUT = 64.5 S.F.
FILL = 4.0 S.F.



CUT = 50.4 S.F.
FILL = 2.2 S.F.

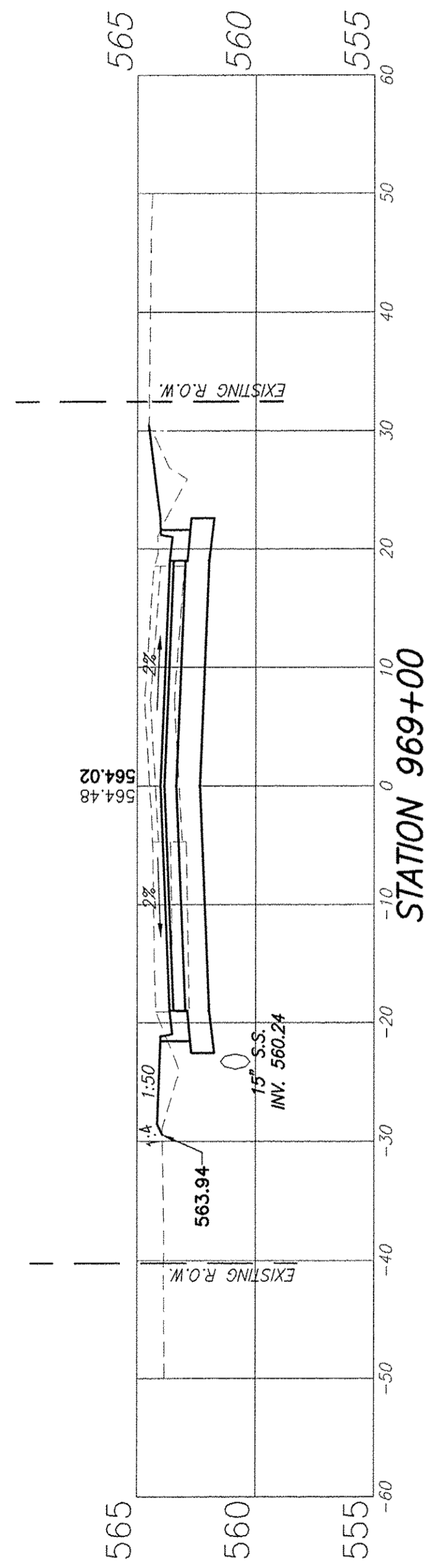


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	46
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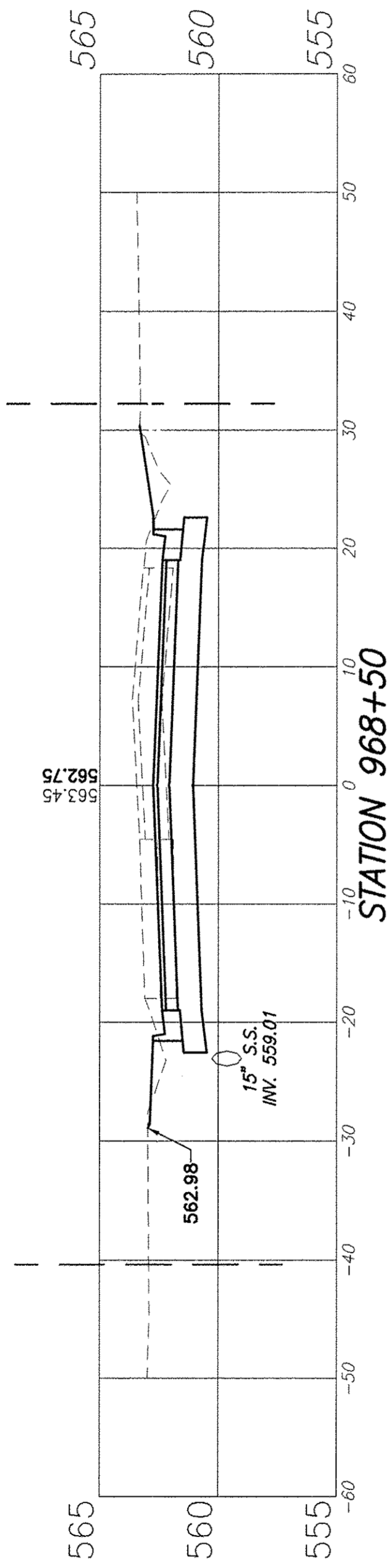


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	47
FEDERAL AID PROJECT		CONTRACT 97634		

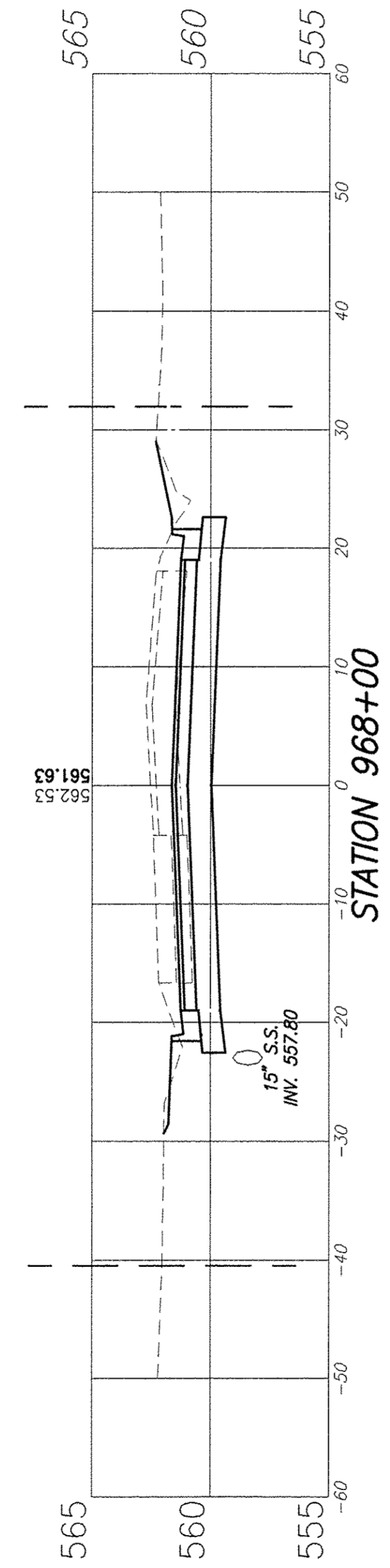
CUT = 16.6 S.F.
FILL = 9.0 S.F.



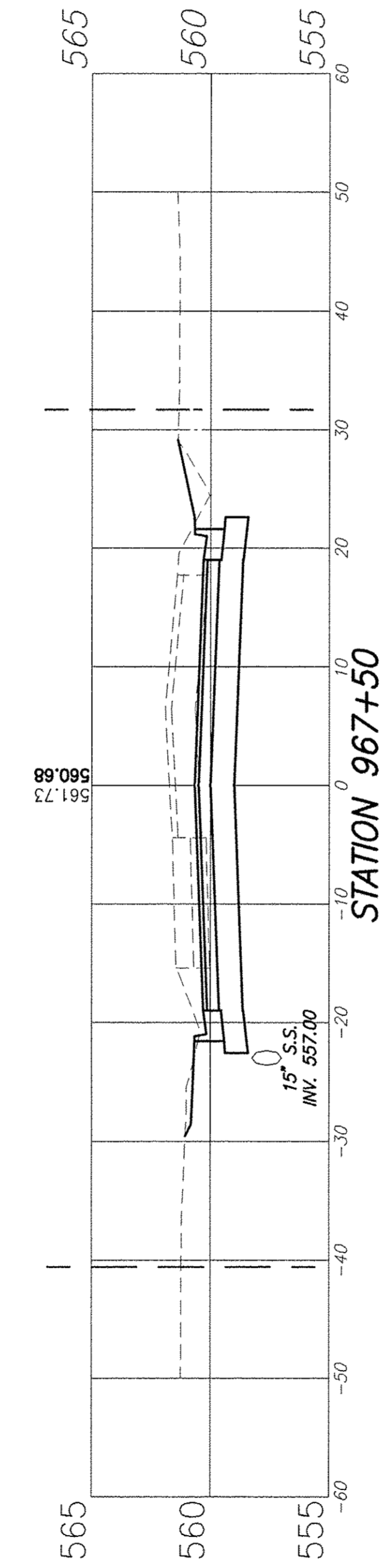
CUT = 26.8 S.F.
FILL = 5.1 S.F.



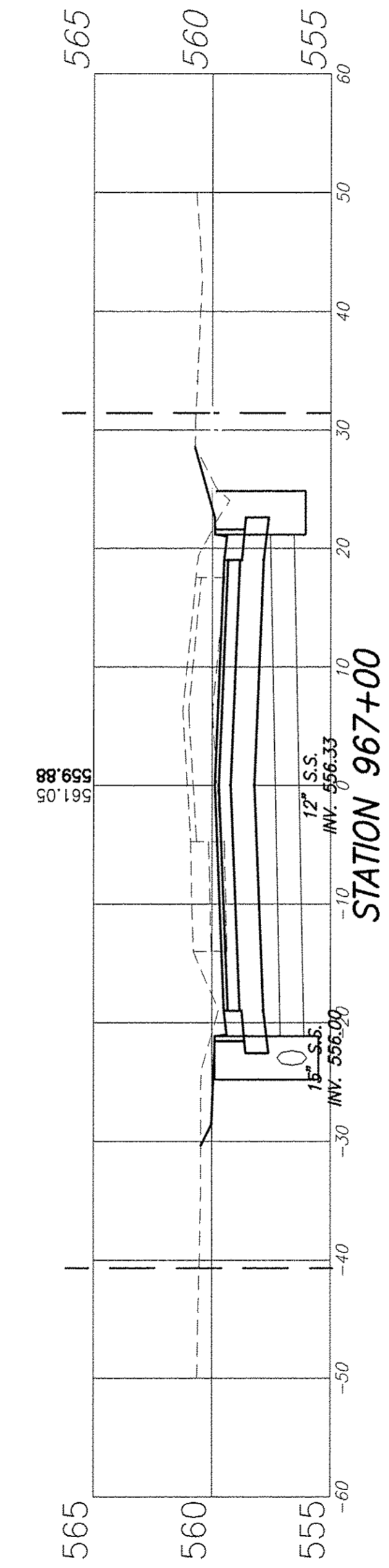
CUT = 34.7 S.F.
FILL = 3.5 S.F.



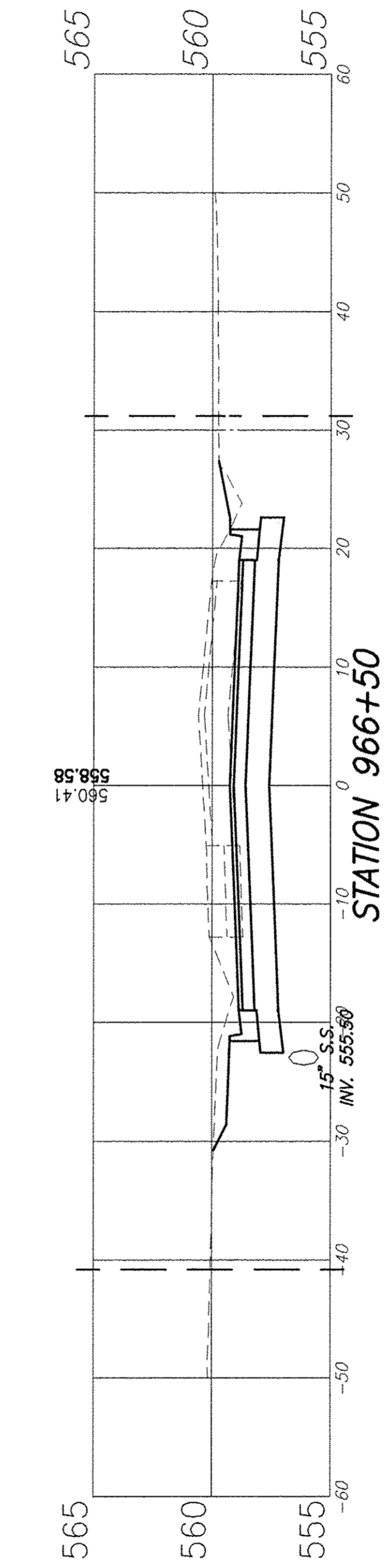
CUT = 42.2 S.F.
FILL = 3.1 S.F.



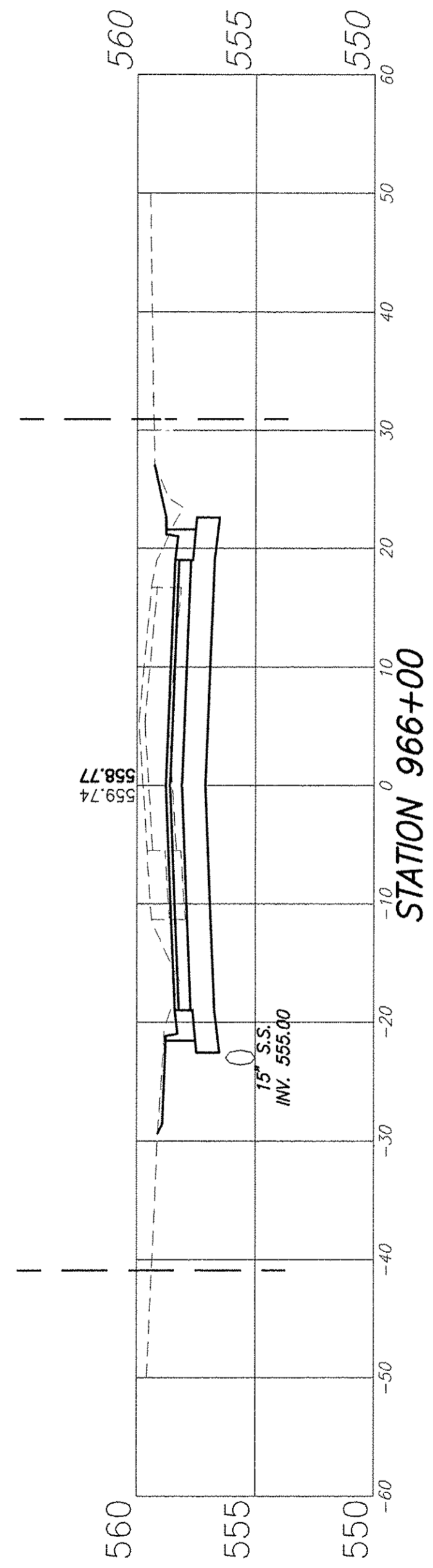
CUT = 49.3 S.F.
FILL = 2.1 S.F.



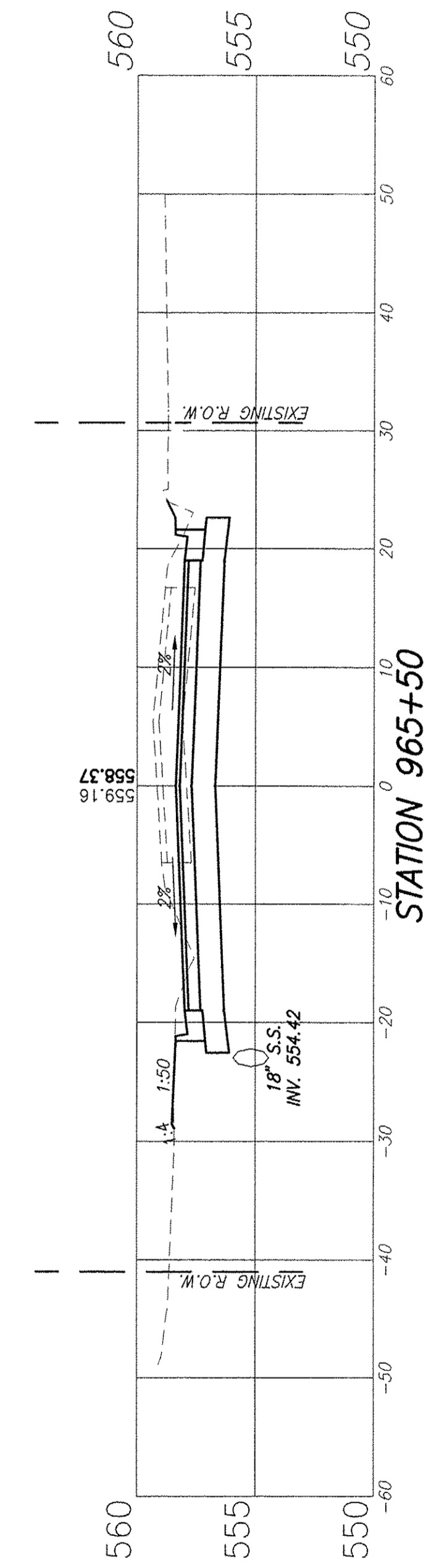
CUT = 48.8 S.F.
FILL = 1.8 S.F.



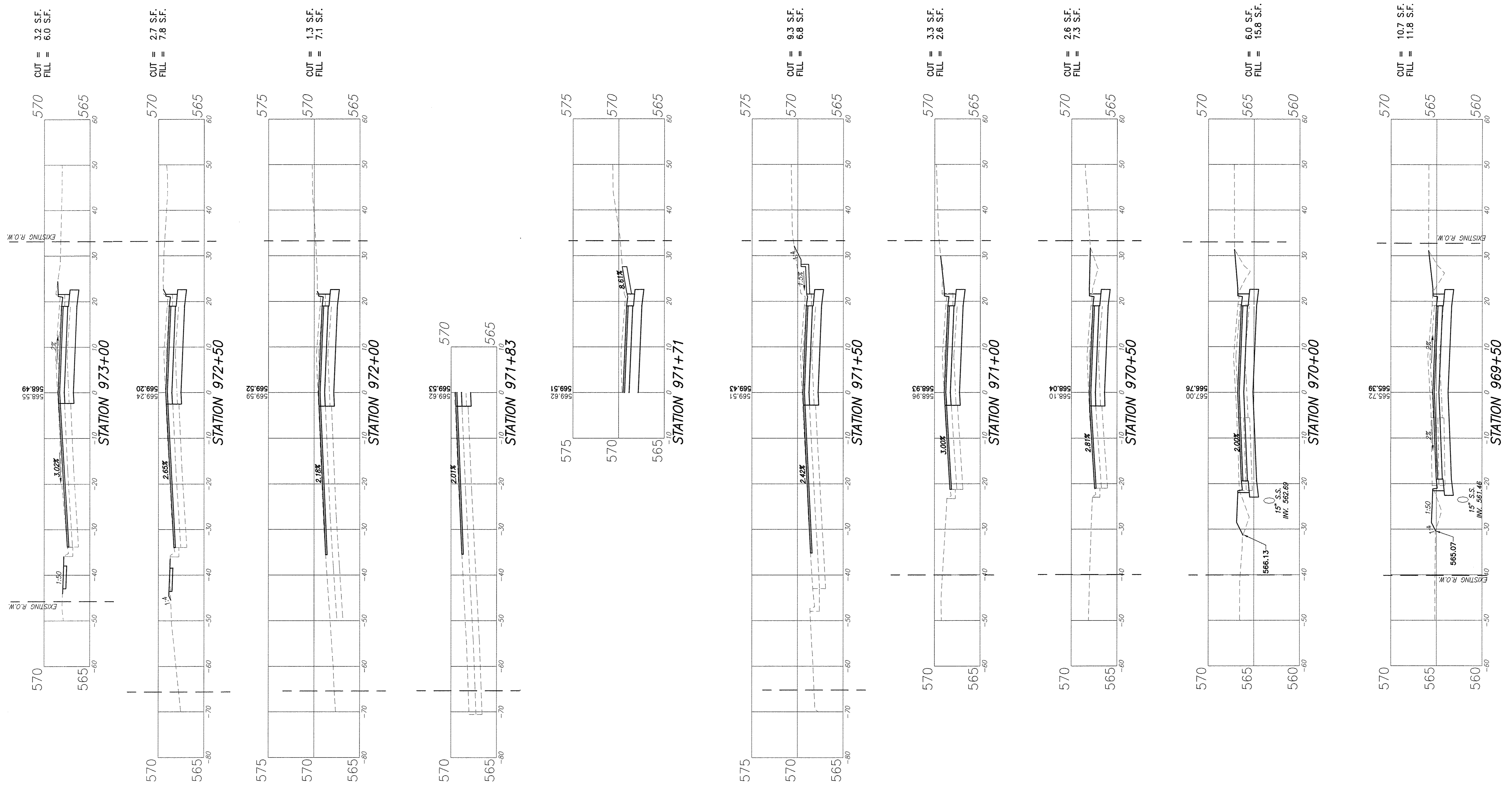
CUT = 37.0 S.F.
FILL = 1.8 S.F.



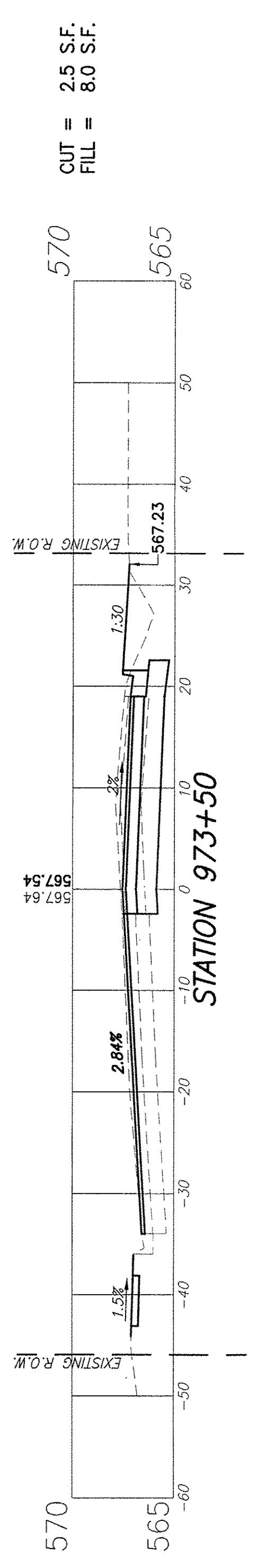
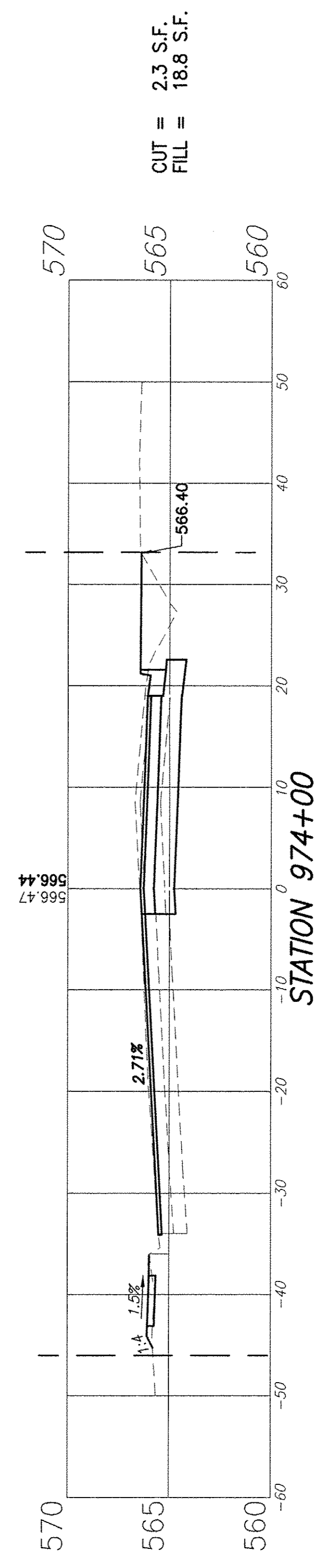
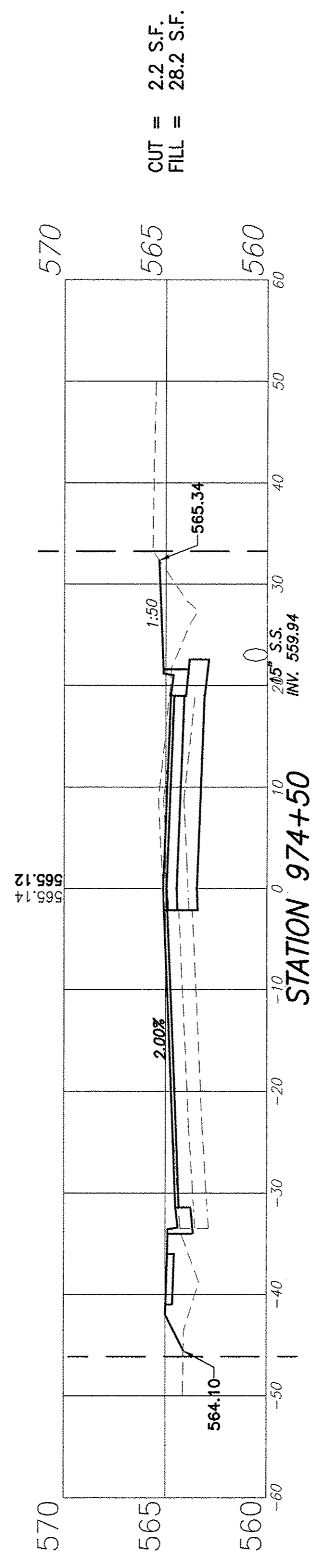
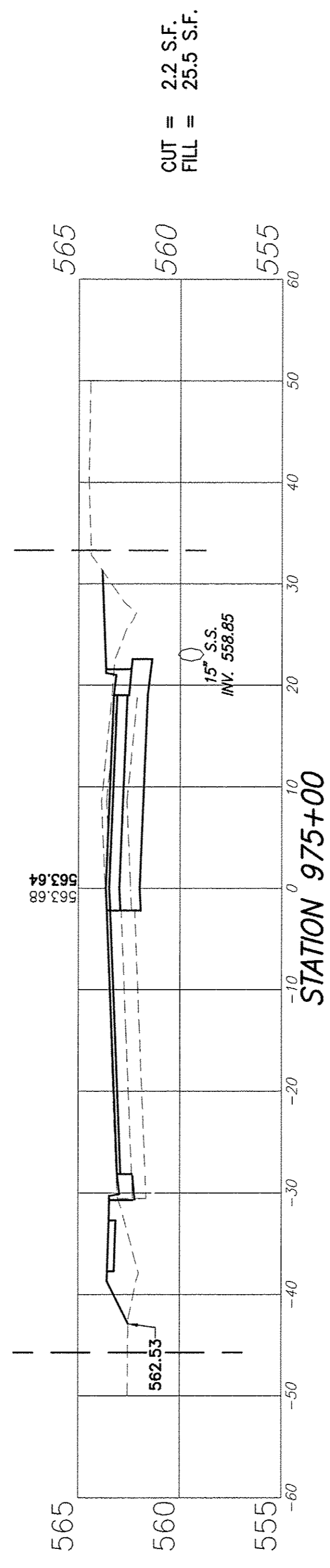
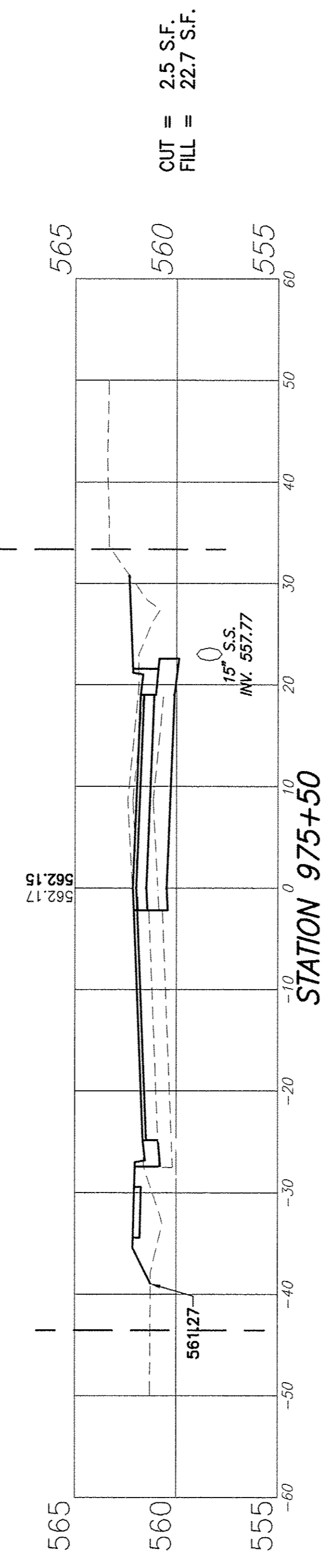
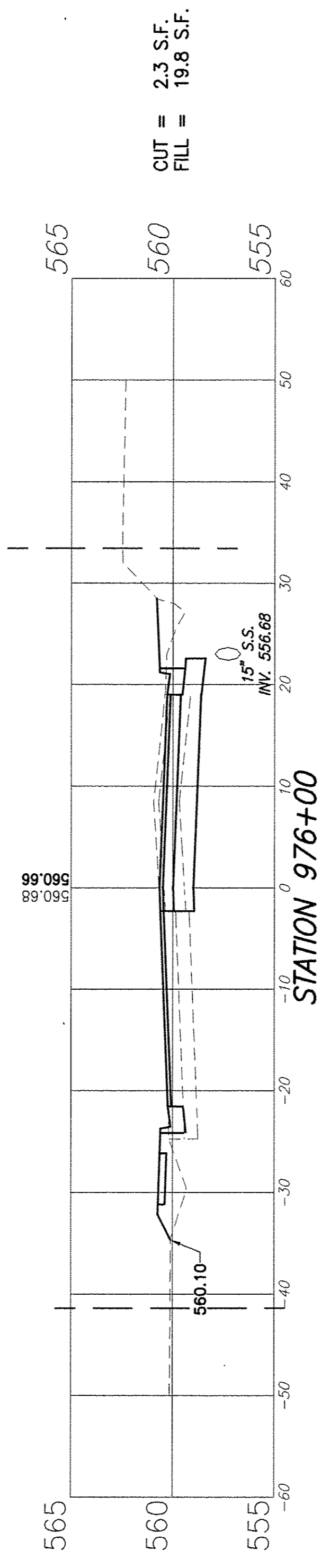
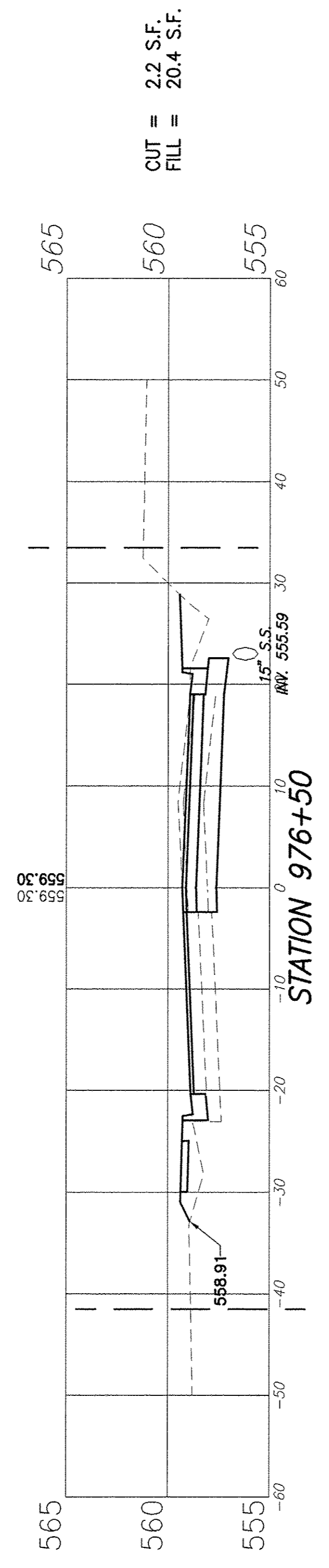
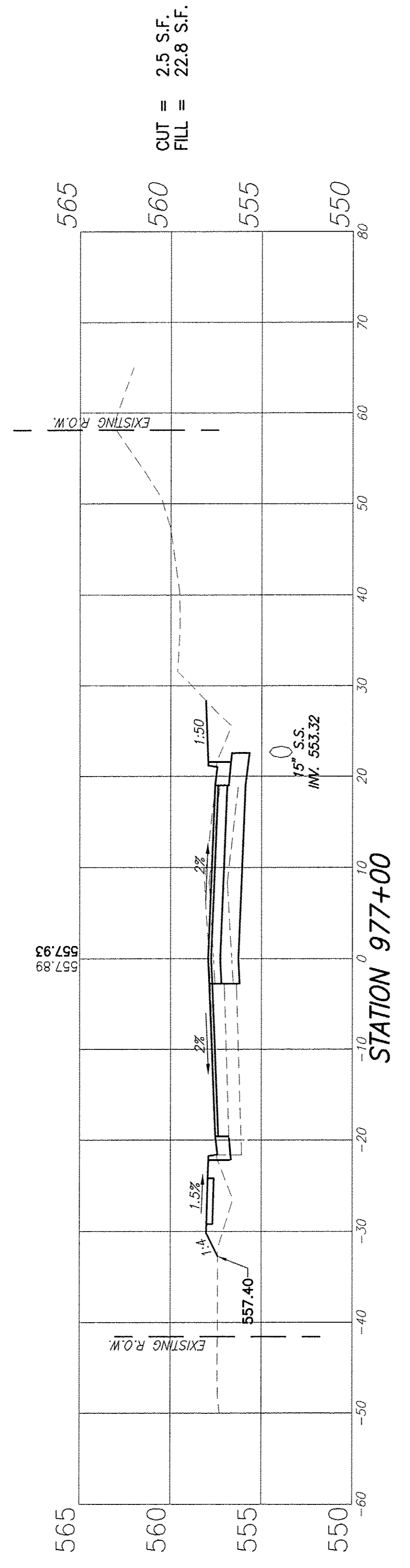
CUT = 31.8 S.F.
FILL = 1.4 S.F.



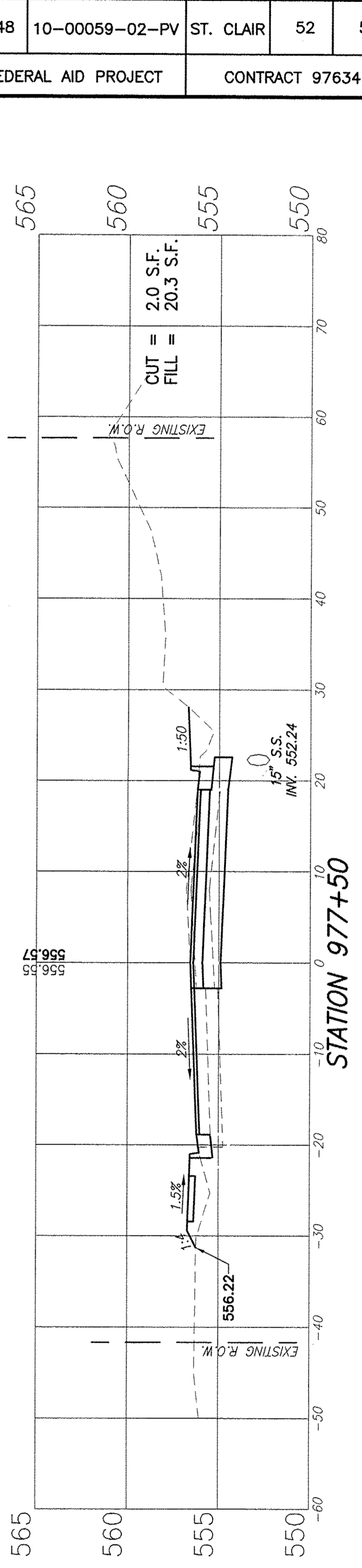
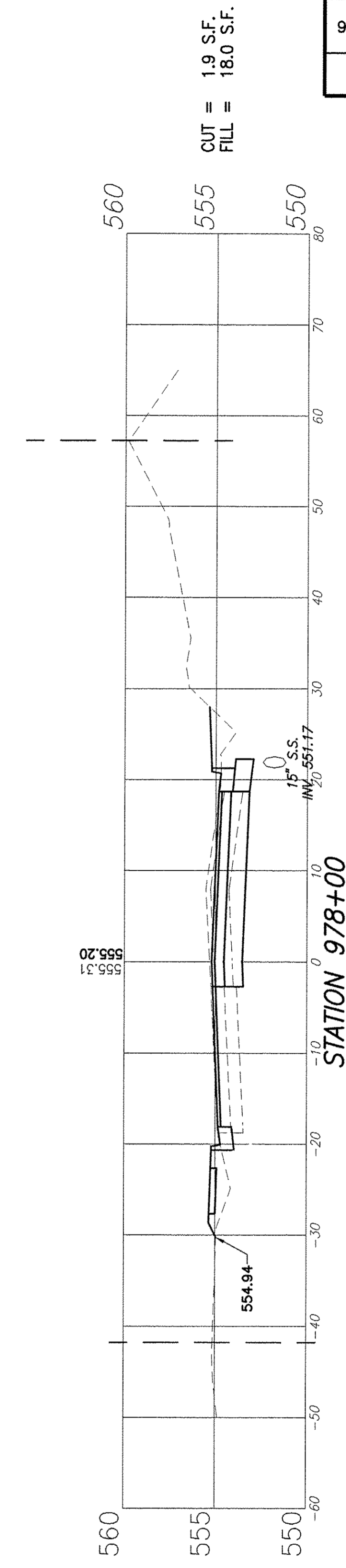
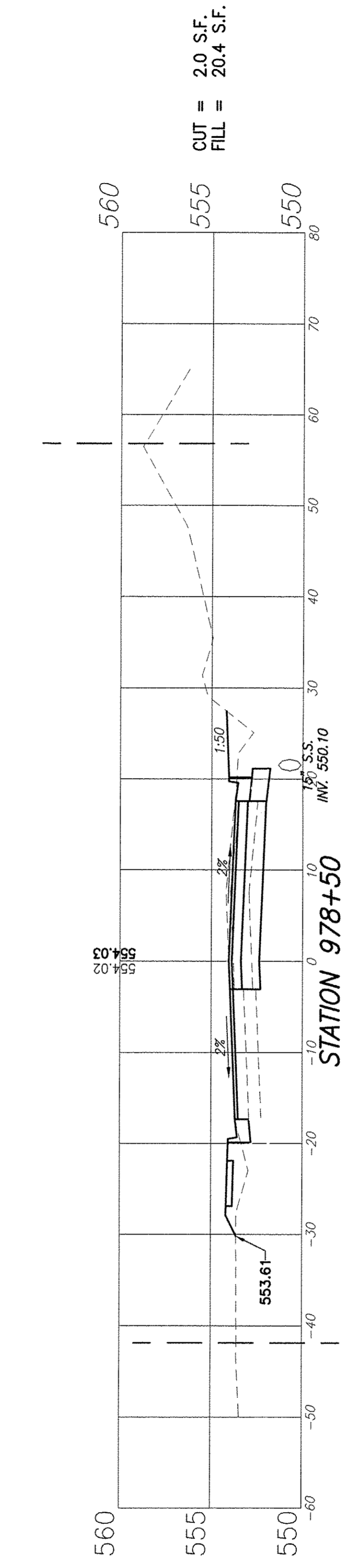
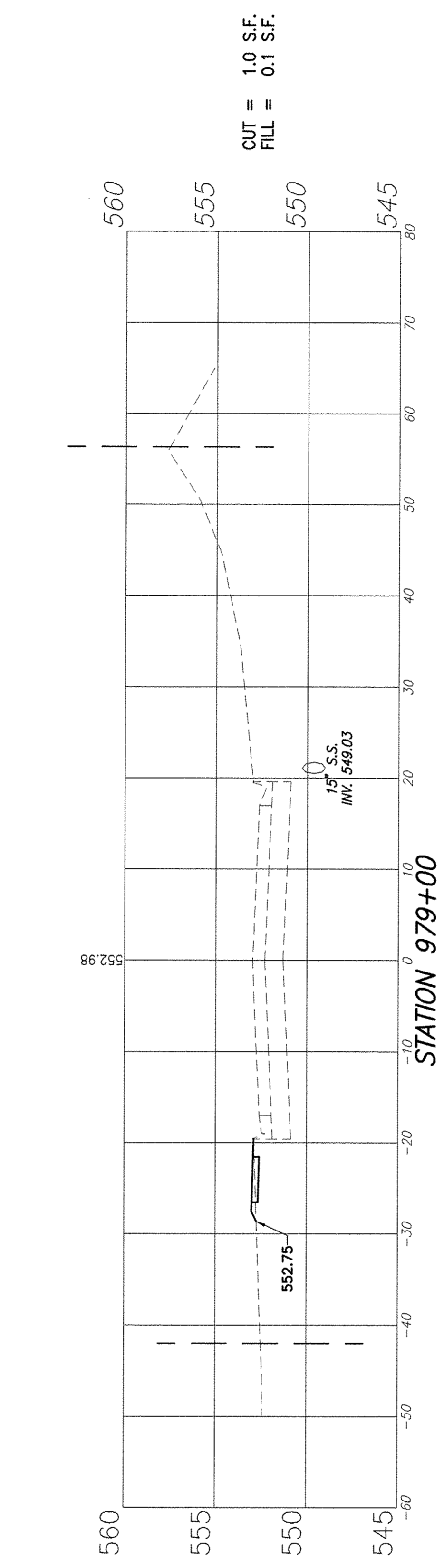
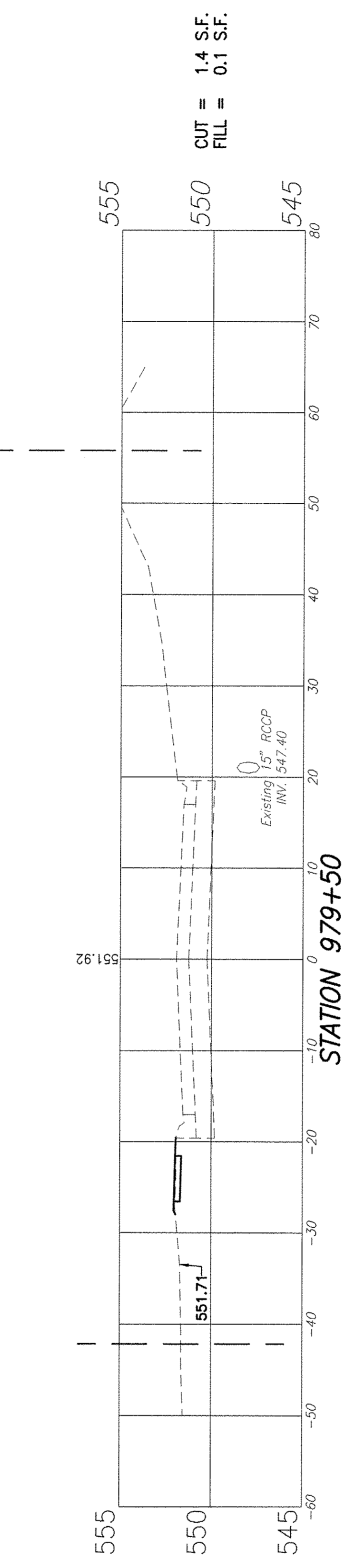
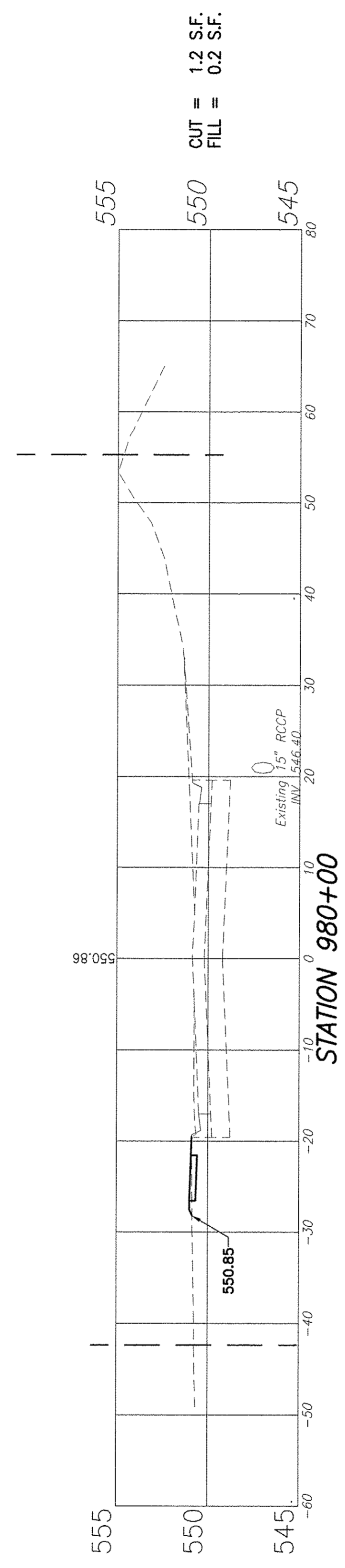
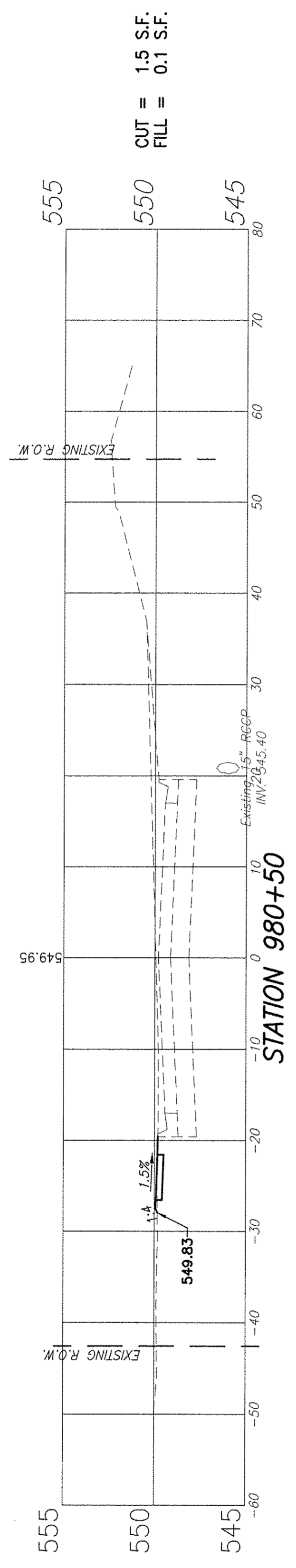
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	48
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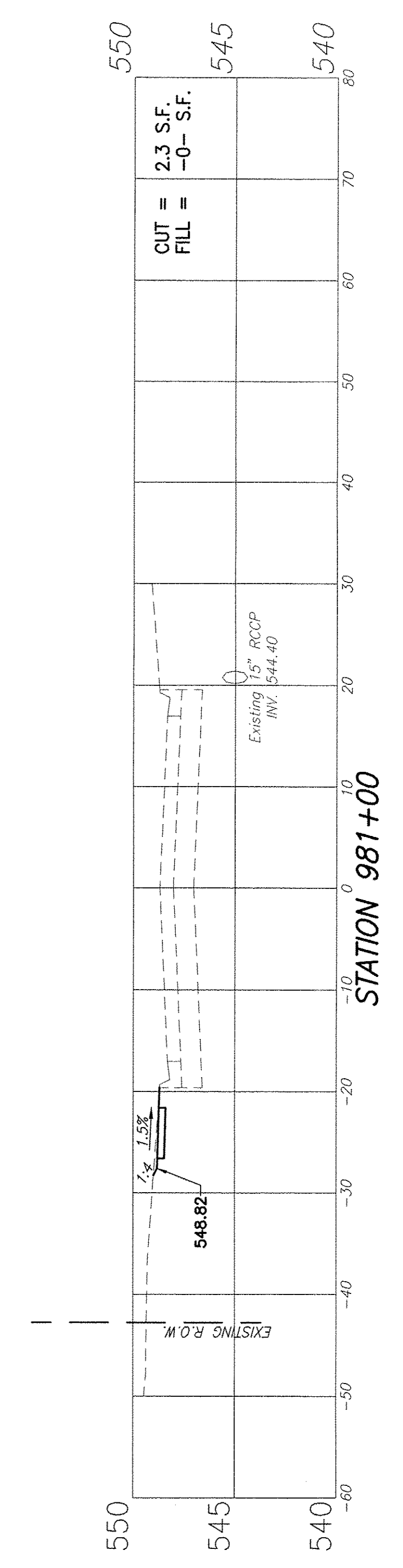
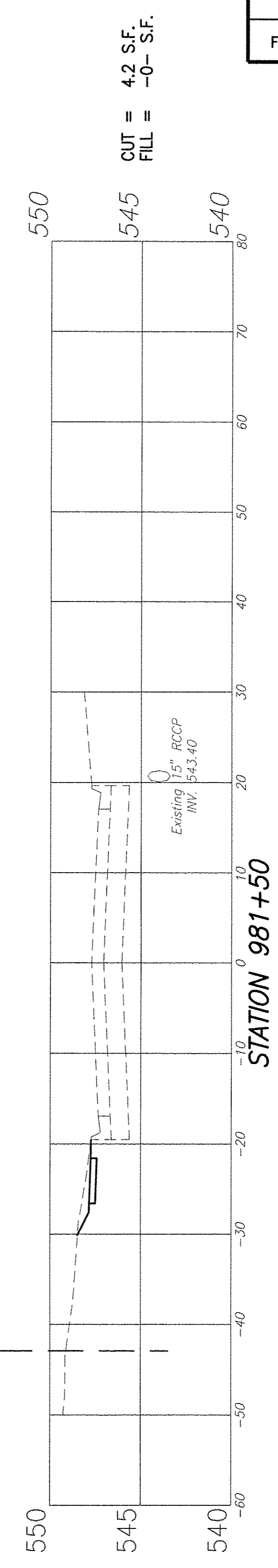
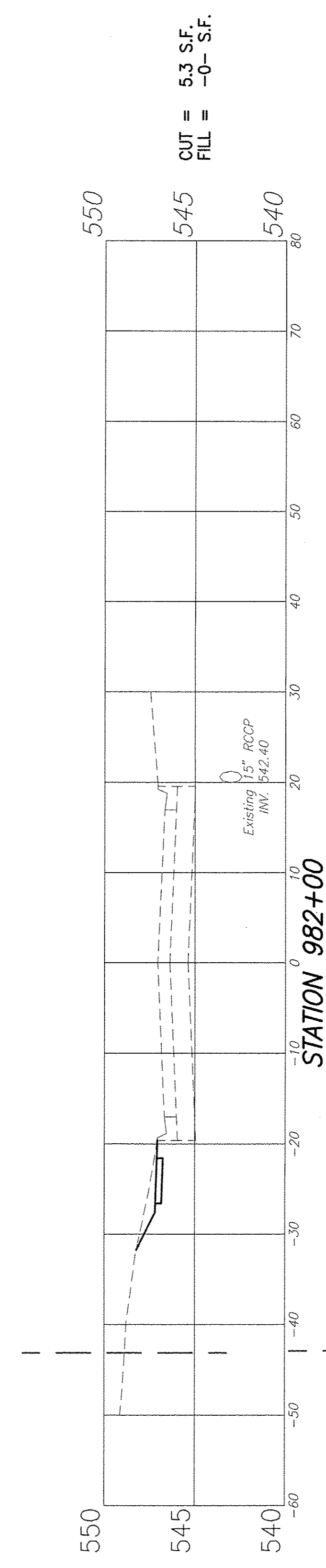
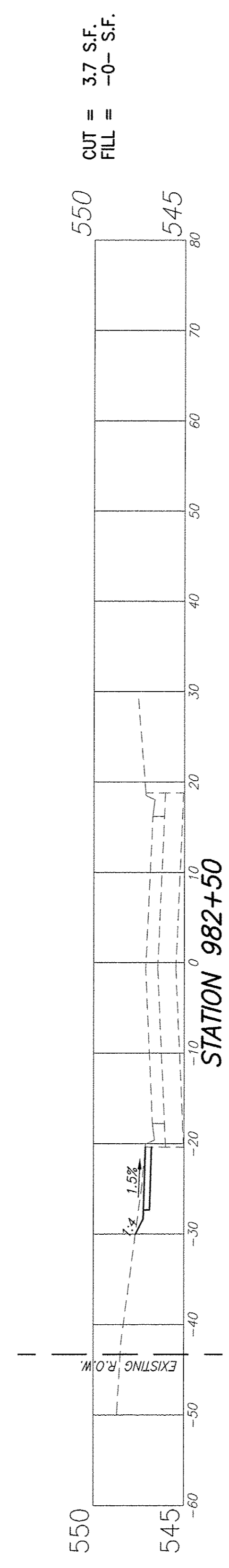
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	49
FEDERAL AID PROJECT		CONTRACT 97634		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	50
FEDERAL AID PROJECT		CONTRACT 97634		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	51
FEDERAL AID PROJECT		CONTRACT 97634		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148	10-00059-02-PV	ST. CLAIR	52	52
FEDERAL AID PROJECT		CONTRACT 97634		

