

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.U. 9376	00-00017-00-RP	ST. CLAIR	1	33
FEDERAL AID PROJECT CONTRACT NO. 97242				

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

### DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 9376  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY  
SECTION 00-00017-00-RP  
PROJECT NO. M-5011(186)  
JOB NO. C-98-303-05

### INDEX OF SHEETS

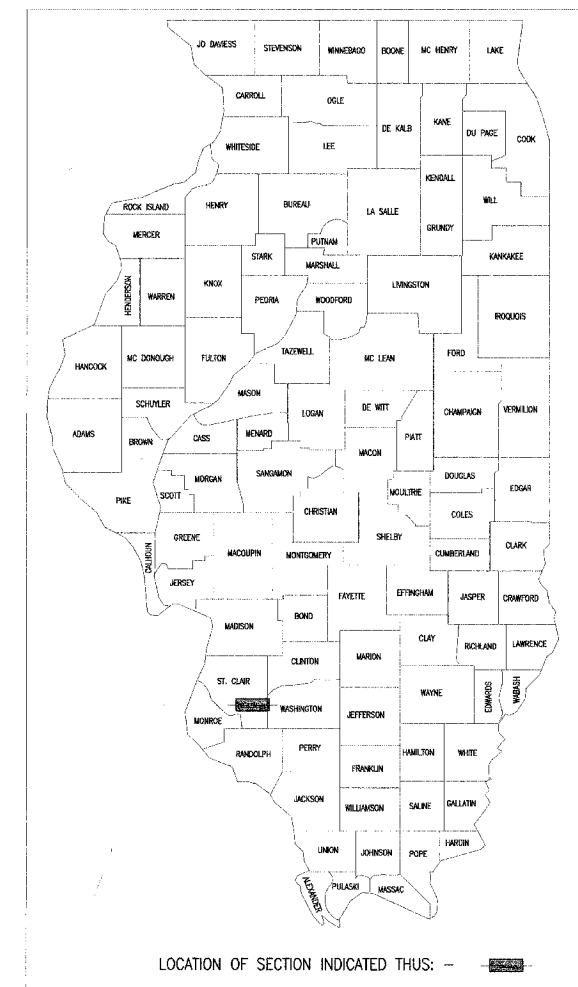
SHEET NO.	DESCRIPTION
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### STANDARDS

000001-04	604036-01
	604091-01
424001-04	606001-02
542301	701606-04
602301	701801-03
602306	702001-05
602401	720001
602406-01	720006
602601	780001-01
602701	

PLAN 1"=20'  
PROFILE HORIZ. 1"=20'  
PROFILE VERT. 1"=5'  
CROSS SECTIONS 1"=5' HORIZ. 1"=2' VERT.

SCALES UNLESS OTHERWISE NOTED

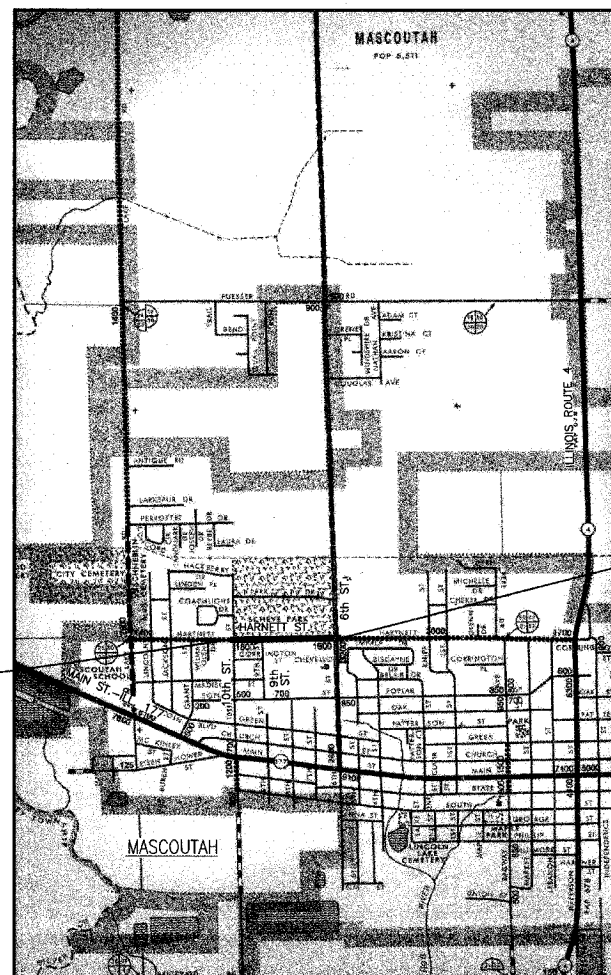


APPROVED	5/23	20 05	
	<i>Heidi E. Daugherty, Mayor</i>		LOCAL OFFICIAL
PASSED	6-2	20 05	
	<i>Deborah Oberdorfer</i>		ENGINEER OF LOCAL ROADS
APPROVED	6-2-0	2005	
	<i>Mary C. Lammie</i>		MARY C. LAMMIE, P.E. DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			

*Robert S. DeConcini* 5/20/2005  
ROBERT S. DeCONCINI, P.E. NO. 62-51574 DATE:  
EXPIRES NOVEMBER 30, 2005



THOUVENOT, WADE & MOERCHEN, INC.

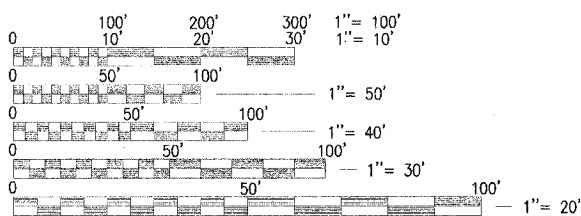


BEGIN PROJECT  
STA. 24+67

END PROJECT  
STA. 41+64.30

LOCATION MAP

NET LENGTH OF PROJECT = 1,697.30 FEET = 0.321 MILES

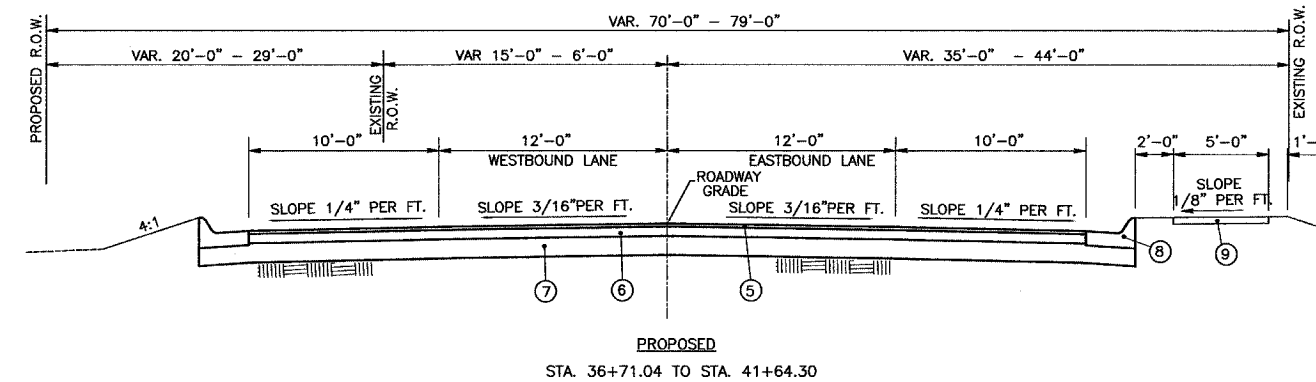
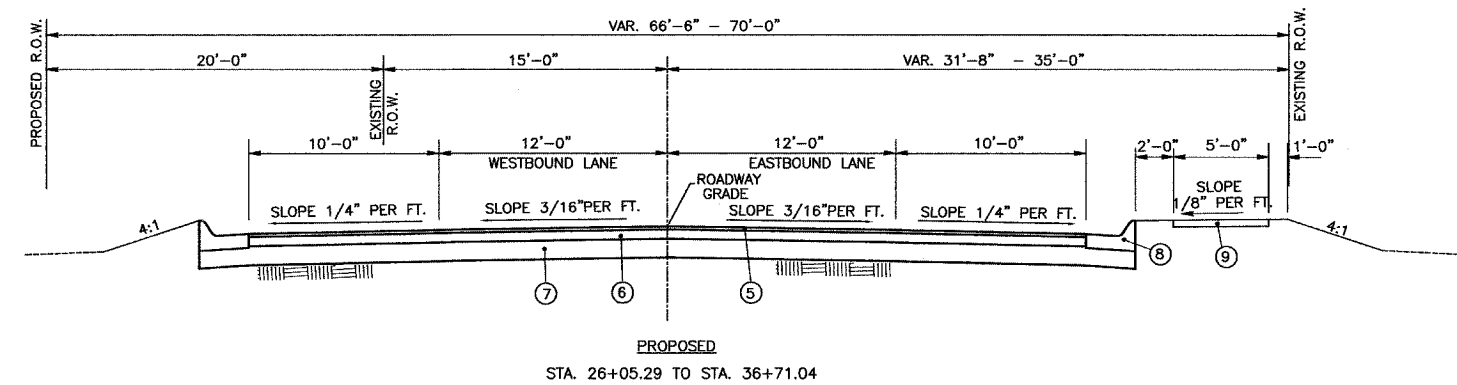
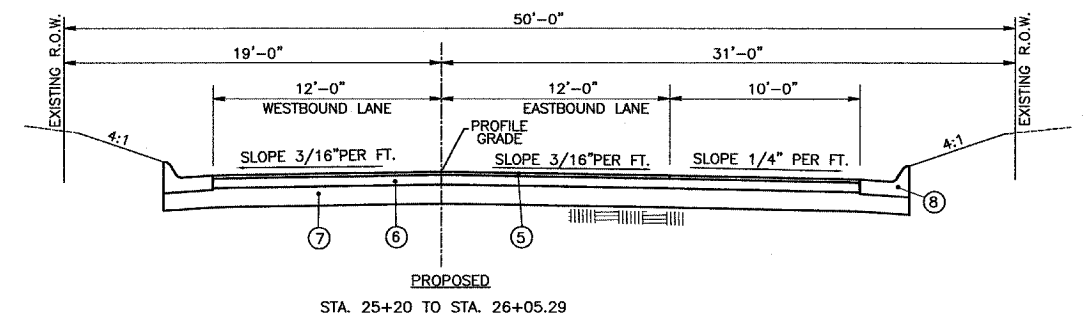
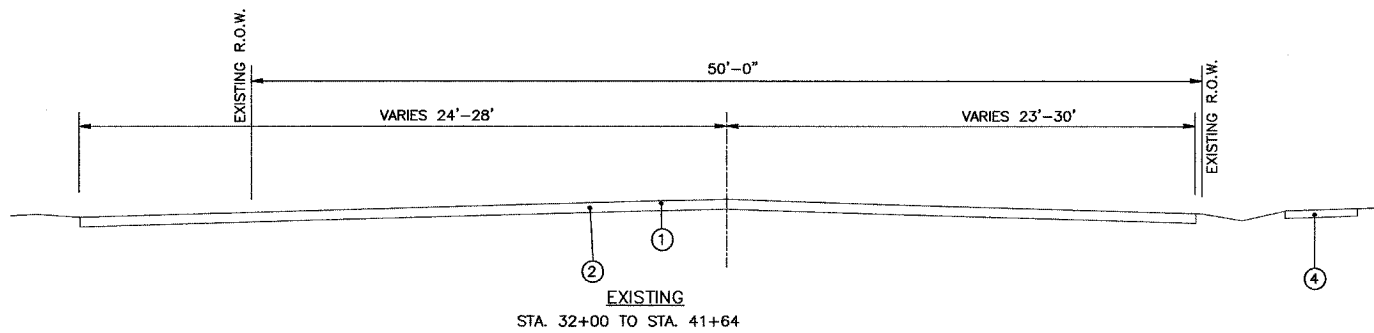
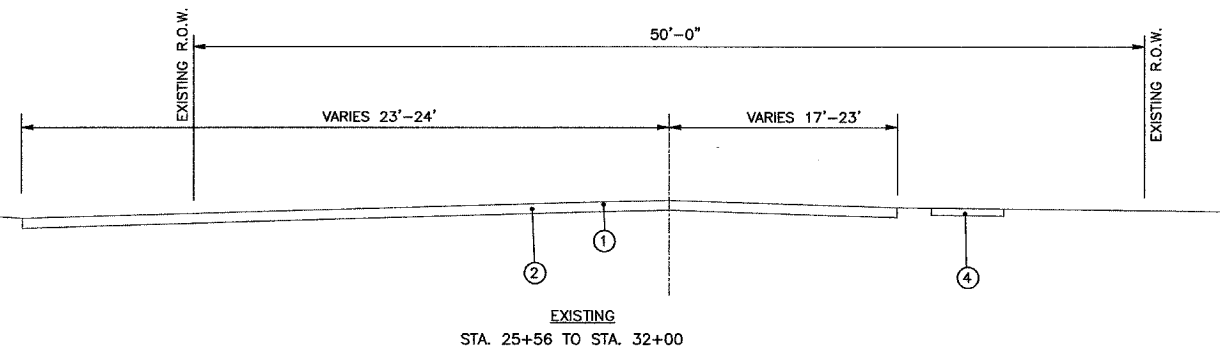
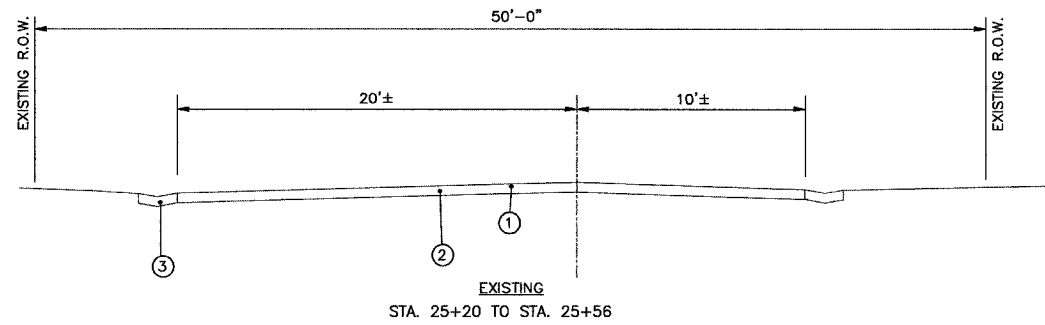


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

F.A.U. ROUTE 9376  
ROADWAY CLASSIFICATION = URBAN COLLECTOR  
DESIGN SPEED = 30 M.P.H.  
CURRENT TRAFFIC (ADT) = 2050  
DESIGN TRAFFIC (ADT) = 3050

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 97242



**BITUMINOUS MIXTURES REQUIREMENT TABLE**

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP% (MAX)	10%	15%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICITION AGG	MIXTURE C	

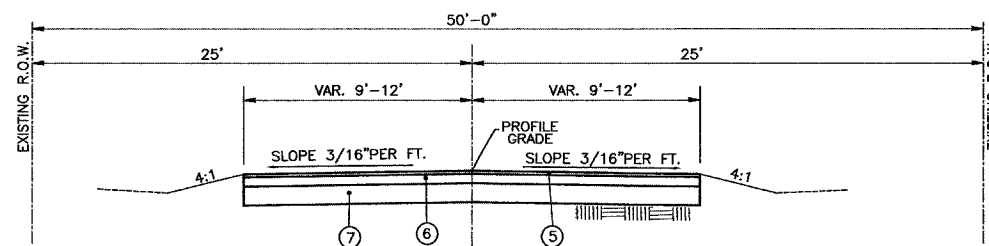
PLAN QUANTITIES FOR BITUMINOUS CONCRETE ITEMS HAVE BEEN CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

**STRUCTURAL DESIGN INFORMATION**

STRUCTURAL DESIGN TRAFFIC: YEAR 2014  
 PV=2,499(98%) SU=48(1.9%) MU=3(0.1%)  
 LOAD LIMIT=73,280 LB  
 ROADWAY CLASSIFICATION: CLASS II  
 TRAFFIC FACTOR: TF=0.06  
 SUBGRADE SUPPORT RATING: SSR=POOR  
 RECOMMENDED PAVEMENT THICKNESS: 8" - 2" SURFACE COURSE  
 6" BINDER COURSE

**LEGEND**

- |   |  |
|---|--|
| ① EXISTING BITUMINOUS SURFACE TREATMENT | ⑤ PROPOSED BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70, 2" |
| ② EXISTING AGGREGATE BASE COURSE        | ⑥ PROPOSED BIT. CONCRETE BINDER COURSE, SUPERPAVE, IL 19.0, N70, 6"  |
| ③ EXISTING PCC GUTTER                   | ⑦ PROPOSED MODIFIED SOIL, 12"  |
| ④ EXISTING PCC SIDEWALK                 | ⑧ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24                    |
|   | ⑨ PROPOSED PCC SIDEWALK, 4"  |



REVISIONS	
NAME	DATE

**TYPICAL SECTIONS**

HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUATAH  
 ST. CLAIR COUNTY, ILLINOIS

# SUMMARY OF QUANTITIES

P&I NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	3
SUMMARY OF QUANTITIES				

CONTRACT NO. 97242

SUMMARY OF QUANTITIES			
I000-2A			
CODE NO	ITEM	UNIT	QTY
20200100	EARTH EXCAVATION	CU YD	3,100
20800150	TRENCH BACKFILL	CU YD	737
21400100	GRADING AND SHAPING DITCHES	FOOT	25
25000100	SEEDING, CLASS 1	ACRE	0.6
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	47
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	47
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	47
25100115	MULCH, METHOD 2	ACRE	0.6
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	75
28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	0.6
28000400	PERIMETER EROSION BARRIER	FOOT	3,000
28000500	INLET AND PIPE PROTECTION	EACH	55
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	8
28200200	FILTER FABRIC	SQ YD	8
30200650	PROCESSING MODIFIED SOILS 12"	SQ YD	10,031
31001500	LIME	TON	194
40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	15
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	136
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	138
42301100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, SPECIAL (4 INCH)	SQ YD	135
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	8,796
42400800	DETECTABLE WARNINGS	SQ FT	80
44000100	PAVEMENT REMOVAL	SQ YD	130
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	155
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	470
44000600	SIDEWALK REMOVAL	SQ FT	1,918
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	5
50105220	PIPE CULVERT REMOVAL	FOOT	113
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION 18"	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	892
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	237
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	282
55034300	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	1,118
55034400	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 34, RISE 22	FOOT	276
*56107100	REMOVE AND RELOCATE WATERMAIN, 6"	FOOT	150
*56107200	REMOVE AND RELOCATE WATERMAIN, 8"	FOOT	115
*56107400	REMOVE AND RELOCATE WATERMAIN, 12"	FOOT	80
60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
I000-2A			
CODE NO	ITEM	UNIT	QTY
60224090	MANHOLES, TYPE A, 6'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	11
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	6
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	5
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	12
60242500	INLETS, SPECIAL, NO. 1	EACH	15
60242600	INLETS, SPECIAL, NO. 2	EACH	1
60242700	INLETS, SPECIAL, NO. 3	EACH	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3,483
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70104490	TRAFFIC CONTROL AND PROTECTION (SPECIAL), LOCATION 1	EACH	1
70104495	TRAFFIC CONTROL AND PROTECTION (SPECIAL), LOCATION 2	EACH	1
70104500	TRAFFIC CONTROL AND PROTECTION (SPECIAL), LOCATION 3	EACH	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	60
70300200	TEMPORARY PAVEMENT MARKING	FOOT	4,815
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	20
*72000100	SIGN PANEL-TYPE 1	SQ FT	31
*72900100	METAL POST-TYPE A	FOOT	64
*78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	42
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,012
*78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	769
*78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	249
X4066416	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70	TON	1,040
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	3,090
XX002053	LANDSCAPE RESTORATION	L SUM	1
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	95
Z0077700	WOOD FENCE TO BE REMOVED AND REERECTED	FOOT	135
XX006174	PEDESTRIAN BRIDGE REMOVAL	EACH	1

DRAINAGE STRUCTURE SCHEDULE															
NO.	STATION	OFFSET (FEET)	RT	MANHOLE, TYPE A, 6'Ø		INLET, TYPE A, 2'Ø		INLET, TYPE B, 3'Ø		5'X5' BOX	6'X6' BOX	12'X6' BOX	TOG FL	TOS	INVERT
				TYPE 24 F&G	SPECIAL F&G	TYPE 3 F&G	TYPE 8 GRATE	TYPE 3 F&G	TYPE 24 F&G	OPEN THROAT	OPEN THROAT	OPEN THROAT			
1	25+51.64	23.00	RT						1				423.79		420.15
2	25+43.70	13.00	LT						1				424.07		420.08
3	25+66.12	26.08	RT						1				423.36		420.09
4	25+86.88	27.21	LT						1				423.10		419.99
5	28+50.20	23.00	RT						1				422.35		419.55
6	26+40.73	23.97	LT						1				423.10		419.87
7	26+30.33	32.64	RT						1				422.99		419.96
8	27+03.17	23.00	RT						1				422.83		419.84
9	27+03.17	27.58	LT							1			423.33		419.74
10	27+65.64	23.00	RT						1				422.57		419.72
11	28+32.21	23.00	RT						1				422.36		419.59
12	28+40.20	27.58	LT							1			422.85		419.47
13	28+90.62	23.00	RT							1			422.41		419.47
14	29+53.41	23.00	RT								1		422.48		419.34
15	29+53.40	27.58	LT								1		423.04		419.24
16	30+31.60	38.94	RT										422.09		419.21
17	30+67.42	37.13	RT										422.09		419.13
18	30+71.81	27.58	LT								1		422.94		419.00
19	31+90.45	23.00	RT										422.02		418.86
20	31+90.46	27.58	LT								1		422.58		418.76
21	33+09.07	23.00	RT										421.66		418.62
22	33+09.07	27.58	LT								1		422.22		418.52
23	34+27.71	23.00	RT										421.43		418.38
24	34+27.71	27.58	LT								1		421.98		418.28
25	34+37.71	23.00	RT										421.43		418.36
26	34+37.71	27.58	LT								1		421.98		418.26
27	35+16.83	23.00	RT										421.52		418.20
28	35+16.83	27.58	LT								1		422.08		418.10
29	36+21.83	28.08	RT										422.36		417.78
30	36+21.83	28.08	LT										422.36		417.89
31	38+27.68	27.58	RT								1		422.27		417.37
32	38+27.68	23.00	LT										421.71		417.59
33	39+27.70	27.58	RT								1		421.88		417.17
34	39+27.70	23.00	LT										421.32		417.39
35	40+26.99	27.58	RT								1		421.27		416.97
36	40+26.99	23.00	LT										420.71		417.07
37	41+14.07	27.58	RT								1		420.76		416.80
38	41+18.46	23.93	LT										420.14		416.91
39	41+24.07	27.58	RT								1		420.75		416.78
40	41+28.28	25.37	LT										420.15		416.93
41	41+40.79	30.96	RT										420.11		416.72
42	28+50.20	27.58	LT								1		422.85		419.45
43	27+04.49	36.54	RT										422.90		420.90
44	27+65.76	38.39	RT										422.65		420.65
45	28+28.25	39.00	RT										422.50		420.50
46	28+90.74	39.00	RT										422.50		420.50
47	29+53.69	39.00	RT										422.09		420.09
48	25+89.22	36.30	LT										423.15		420.03
49	26+26.91	31.94	LT										423.00		419.90
50	41+59.46	53.98	RT										420.76		416.68
51	41+38.36	31.37	LT										419.43		416.15
52	25+93.31	56.78	RT										422.52		420.10
53	26+20.55	56.32	RT										422.52		420.04
54	30+35.83	97.22	RT												
TOTALS:				1	1	11	6	5	12	15	1	2			

STORM SEWER SCHEDULE																
FROM STATION	OFFSET (FEET)	TO STATION	OFFSET (FEET)	TYPE	SIZE AND LENGTH OF PIPE (FEET)					PRECAST REINF. CONC. FLARED END SECTION (EACH)	TRENCH BACKFILL (CUBIC YARD)					
					12"Ø	15"Ø	18"Ø	19"X30"	22"X34"							
25+43.70	23.00	LT	25+86.88	27.21	LT	RCCP, TYPE 1, CLASS IV		42								11.59
25+89.22	36.30	LT	25+86.88	27.21	LT	RCCP, TYPE 1, CLASS IV	7									1.41
25+86.88	27.21	LT	26+26.91	31.94	LT	RCCP, TYPE 1, CLASS IV				37						6.91
26+26.91	31.94	LT	26+40.73	23.97	LT	RCCP, TYPE 1, CLASS IV				13						2.19
26+40.73	23.97	LT	27+03.17	27.58	LT	RCCP, TYPE 1, CLASS IV				58						11.60
25+51.64	23.00	RT	25+66.12	26.08	RT	RCCP, TYPE 1, CLASS IV			24							6.34
25+66.12	26.08	RT	26+30.33	32.64	RT	RCCP, TYPE 1, CLASS IV			52							14.14
26+30.33	32.64	RT	27+03.17	23.00	RT	RCCP, TYPE 1, CLASS IV			73							11.06
27+04.49	36.54	RT	27+03.17	23.00	RT	RCCP, TYPE 1, CLASS IV	11									2.09
27+03.17	23.00	RT	27+03.17	27.58	LT	RCCP, TYPE 1, CLASS IV			46							8.78
27+03.17	27.58	LT	28+40.20	27.58	LT	RCCP, TYPE 1, CLASS IV				132						23.21
28+40.20	27.58	LT	28+50.20	27.58	LT	RCCP, TYPE 1, CLASS IV					5					1.37
27+65.76	38.39	RT	27+65.64	23.00	RT	RCCP, TYPE 1, CLASS IV	13									2.57
27+65.64	23.00	RT	28+32.21	23.00	RT	RCCP, TYPE 1, CLASS IV	63									10.88
28+28.25	39.00	RT	28+32.21	23.00	RT	RCCP, TYPE 1, CLASS IV	14									2.54
28+32.21	23.00	RT	28+50.20	23.00	RT	RCCP, TYPE 1, CLASS IV	15									2.55
28+50.20	23.00	RT	28+50.20	27.58	LT	RCCP, TYPE 1, CLASS IV	47									8.24
28+50.20	27.58	LT	29+53.40	27.58	LT	RCCP, TYPE 1, CLASS IV						98				21.95
28+90.74	39.00	RT	28+90.62	23.00	RT	RCCP, TYPE 1, CLASS IV	13									2.73
28+90.62	23.00	RT	29+53.40	23.00	RT	RCCP, TYPE 1, CLASS IV	59									11.90
29+53.69	39.00	RT	29+53.40	23.00	RT	RCCP, TYPE 1, CLASS IV	14									3.00
29+53.40	23.00	RT	29+53.40	27.58	LT	RCCP, TYPE 1, CLASS IV	46									10.08
29+53.40	27.58	LT	30+71.81	27.58	LT	RCCP, TYPE 1, CLASS IV						113				32.81
30+31.60	38.94	RT	30+67.32	37.13	RT	RCCP, TYPE 1, CLASS IV	33									7.55
30+67.32	37.13	RT	30+71.81	27.58	LT	RCCP, TYPE 1, CLASS IV	61									14.13
30+71.81	27.58	LT	31+90.45	27.58	LT	RCCP, TYPE 1, CLASS IV						113				30.53
31+90.45	23.00	RT	31+90.45	27.58	LT	RCCP, TYPE 1, CLASS IV	46									10.18
31+90.45	27.58	LT	33+09.07	27.58	LT	RCCP, TYPE 1, CLASS IV						113				28.30
33+09.07	23.00	RT	33+09.07	27.58	LT	RCCP, TYPE 1, CLASS IV	46									9.60
33+09.07	27.58	LT	34+27.71	27.58	LT	RCCP, TYPE 1, CLASS IV						113				28.52
34+27.71	27.58	LT	34+37.71	27.58	LT	RCCP, TYPE 1, CLASS IV						5				0.97
34+27.71	23.00	RT	34+37.71	23.00	RT	RCCP, TYPE 1, CLASS IV	7									1.39
34+37.71	23.00	RT	34+37.71	27.58	LT	RCCP, TYPE 1, CLASS IV	47									9.68
34+37.71	27.58	LT	35+16.83	27.58	LT	RCCP, TYPE 1, CLASS IV						74				19.45
35+16.83	23.00	RT	35+16.83	27.58	LT	RCCP, TYPE 1, CLASS IV	46									10.95
35+16.83	27.58	LT	36+21.83	27.58	LT	RCCP, TYPE 1, CLASS IV						97				31.36
36+21.83	27.58	LT	36+21.83	27.58	RT	RCCP, TYPE 1, CLASS IV							150			41.88
36+21.83	27.58	RT	38+27.68	27.58	RT	RCCP, TYPE 1, CLASS IV							199			83.12
38+27.68	23.00	LT	38+27.68	27.58	RT	RCCP, TYPE 1, CLASS IV	46									15.39
38+27.68	27.58	RT	39+27.70	27.58	RT	RCCP, TYPE 1, CLASS IV							95			39.79
39+27.70	23.00	LT	39+27.70	27.58	RT	RCCP, TYPE 1, CLASS IV	46									14.47
39+27.70	27.58	RT	40+26.99	27.58	RT	RCCP, TYPE 1, CLASS IV							93			48.61
40+26.99	23.00	LT	40+26.99	27.58	RT	RCCP, TYPE 1, CLASS IV	46									12.51
40+26.99	27.58	RT	41+14.07	27.58	RT	RCCP, TYPE 1, CLASS IV								82		24.20
41+14.07	27.58	RT	41+24.07	27.58	RT	RCCP, TYPE 1, CLASS IV								5		1.08
41+28.28	25.37	LT	41+18.46	23.93	LT	RCCP, TYPE 1, CLASS IV	7									1.55
41+18.46	23.93	LT	41+24.07	27.58	RT	RCCP, TYPE 1, CLASS IV	48									

DRIVEWAY PAVEMENT SCHEDULE									
LOCATION	ENTRANCE TYPE	EXISTING ENTRANCE WIDTH AT R.O.W.	PROPOSED ENTRANCE WIDTH AT R.O.W.	EXISTING SURFACE TYPE	PAVEMENT REMOVAL (SQ YD)	P.C.C. DRIVEWAY PAVEMENT, 6" (SQ YD)	P.C.C. DRIVEWAY PAVEMENT, SPECIAL (4") (SQ YD)	AGGREGATE SURFACE COURSE, 8" (SQ YD)	AGGREGATE FOR TEMPORARY ACCESS (TONS)
25+36.81 RT	PRIVATE	18.0'	18.0'	CONCRETE	52.06	17.88	30.84		17.92
25+58.19 LT	PRIVATE	18.0'	18.0'	CONCRETE	34.36	16.44	18.68		11.19
26+88.33 RT	PRIVATE	10.9'	12.0'	CONCRETE	14.36	13.22	14.63		13.04
27+20.33 RT	PRIVATE	9.5'	12.0'	CONCRETE	10.04	13.22	11.22		13.04
27+79.36 RT	PRIVATE	9.9'	12.0'	CONCRETE	8.57	13.22	10.28		13.04
28+42.00 RT	PRIVATE	9.9'	12.0'	CONCRETE	7.89	13.22	10.24		13.04
29+04.43 RT	PRIVATE	9.8'	12.0'	CONCRETE	6.78	13.22	10.18		13.04
31+72.89 RT	PRIVATE	20.5'	20.5'	CONCRETE	20.33	19.88	28.33		
37+66.92 LT	PRIVATE	17.0'	17.0'	AGGREGATE		17.42		14.98	
TOTAL:					154.39	137.72	134.40	14.98	94.31

STRIPING SCHEDULE							
LOCATION	4" DOUBLE SOLID YELLOW PAINT (FOOT)	4" SOLID WHITE PAINT (FOOT)	4" WHITE SKIP DASH (2'-6") PAINT (FOOT)	6" SOLID WHITE PAINT (FOOT)	6" SOLID YELLOW PAINT (FOOT)	12" SOLID WHITE PAINT (FOOT)	RIGHT TURN ARROW (SQ FT)
STA 24+67 TO STA 25+75.70	217.40						
STA 24+67 RT TO STA 25+15.03 RT		65.51					
STA 25+75.70 RT						23.06	
STA 25+80.37 TO STA 26+38.20				364.51			
STA 25+87.79 LT TO STA 26+04.27 LT						17.00	
STA 26+04.27 LT	56.34						
STA 26+07.32 RT	53.74						
STA 26+07.32 RT TO STA 26+23.49 RT						17.00	
STA 26+42.87 LT						22.00	
STA 26+42.87 TO STA 41+51.07	3016.42						
STA 26+58.20 LT TO STA 37+31.31 LT		1093.11					
STA 38+01.73 LT TO STA 40+81.25 LT		299.52					
STA 27+37.86 RT TO STA 27+61.86 RT		44.00					
STA 27+98.69 RT TO STA 28+22.69 RT		44.00					
STA 29+21.34 RT TO STA 30+13.27 RT					91.93		
STA 28+61.23 RT TO STA 28+85.23 RT		44.00					
STA 30+21.55 RT TO STA 30+76.97 RT				96.46			
STA 30+48.63 RT TO STA 30+66.17 RT						17.54	
STA 30+84.14 RT TO STA 31+51.61 RT					67.47		
STA 32+01.18 RT TO STA 40+36.10 RT		855.21					
STA 39+31.14 RT TO STA 40+36.10 RT			26.00			50.26	
STA 40+36.10 RT TO STA 41+51.48 RT		115.38					
STA 40+58.09 RT							20.83
STA 40+81.25 LT TO STA 41+54.65 LT		80.73				74.61	
STA 41+28.09 RT							20.83
STA 41+51.10 RT						26.96	
STA 41+58.76				148.69			
TOTAL:	3343.90	2641.46	26.00	609.66	159.40	248.43	41.66

SIGN SCHEDULE				
STATION	OFFSET	TYPE	SIGN PANEL, TY. 1 (SQ FT)	METAL POST, TY. A (FT)
26+72.52	25.58 RT	S1-1, SCHOOL ADVANCE WARNING SIGN, WITH S16-9p, "AHEAD"	14.00	15
29+22.99	25.58 RT	R7-1, 12"x18", "NO PARKING ANY TIME"	1.50	12
30+69.56	38.26 RT	R1-1100, 30"x18", "CROSS TRAFFIC DOES NOT STOP"	3.75	-
30+96.57	27.13 LT	R2-1, 24"x30", "SPEED LIMIT 25"	5.00	13
31+96.91	25.58 RT	R7-1, 12"x18", "NO PARKING ANY TIME"	1.50	12
40+81.25	25.58 LT	R7-1, 12"x18", "NO PARKING ANY TIME"	1.50	12
41+46.11	28.08 RT	R1-1100, 30"x18", "CROSS TRAFFIC DOES NOT STOP"	3.75	-
TOTAL:			31.00	64

PIPE CULVERT REMOVAL	
LOCATION	QUANTITY (FOOT)
25+90.64 LT TO 26+28.90 LT	37.61
30+22.58 RT TO 30+22.69 LT	60.71
41+40.94 RT TO 41+58.98 RT	14.31
TOTAL:	112.63

STRUCTURE REMOVAL		
STATION	OFFSET	QUANTITY (EACH)
25+90.06	47.11' LT	1
30+22.41	29.00' RT	1
41+38.92	31.01' LT	1
41+40.94	49.96' RT	1
41+58.98	53.95' RT	1
TOTAL:		5

LANDSCAPING RESTORATION SCHEDULE	
STATION	OFFSET
28+97.80	35.36 RT
29+10.94	35.95 RT

REVISIONS	
NAME	DATE

MISCELLANEOUS SCHEDULES

HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

FIG. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	6
STA.		TO STA.		

CONTRACT NO. 97242

## GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGE HIS OPERATIONS IN ORDER THAT THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE TYPE, SIZE, AND LOCATION OF UTILITIES AS DELINEATED IN THESE TOPOGRAPHIC LAND SURVEY DOCUMENTS AND/OR CIVIL ENGINEERING DESIGN DOCUMENTS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR RECORD DRAWINGS; FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS, THEREFORE THEIR EXACT LOCATION, SIZE AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN ON PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING ROADWAY FEATURES SUCH AS CULVERTS, HEADWALLS, RIPRAP, CURB, PAVEMENT, FENCING, ETC. LOCATED WITHIN THE CONSTRUCTION LIMITS ARE TO BE REMOVED UNLESS NOTED OTHERWISE ON THE PLANS.

THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION AND PERMANENTLY RESET ALL MAILBOXES AND TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. EVERY TREE SHALL BE SAVED IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.

ALL CLEARING OF LOGS, SHRUBS, BUSHES, SAPLINGS, GRASS, WEEDS, OTHER VEGETATION AND STUMPS OF LESS THAN 6 INCHES IN DIAMETER WILL NOT BE MEASURED FOR PAYMENT.

THE SAW CUTTING OF EXISTING PAVEMENT NECESSARY FOR ITS REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE ITEM FOR WHICH THE SAWCUT IS BEING MADE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS, OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO INSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

THE RESIDENT ENGINEER WILL FIELD LOCATE ALL SILT FENCE, STRAW BALE DITCH CHECKS, RIP-RAP DITCHES AND DITCH CHECKS.

ALL EARTH SURFACES DISTURBED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE SEEDED.

0.6 ACRES	SEEDING CL 1
0.6 ACRES	MULCH METHOD 2
47 POUNDS	NITROGEN FERTILIZER NUTRIENT
47 POUNDS	PHOSPHORUS FERTILIZER NUTRIENT
47 POUNDS	POTASSIUM FERTILIZER NUTRIENT

SEEDING DATES: FALL: AUG. 16 - DEC. 31  
 SPRING: JAN. 1 - MAY 31  
 NO SEEDING SHALL BE DONE BETWEEN JUNE 1 - AUG. 15.

IT IS INTENDED THAT ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

ALL MATERIALS SUCH AS FRAMES AND GRATES AND STORM SEWER PIPE SCHEDULED FOR REMOVAL, THAT ARE CONSIDERED TO BE SUITABLE FOR FUTURE USE, SHALL BE SALVAGED AND STOCKPILED AS DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS SCHEDULED FOR REMOVAL BUT NOT SALVAGED, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

ALL STORM SEWER AND CULVERT PIPE TO BE REMOVED WHICH THE ENGINEER DEEMS FIT FOR RE-USE SHALL BE SALVAGED IN ACCORDANCE WITH ARTICLES 501.02 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL OTHER STORM SEWER AND CULVERT PIPE SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03.

FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS ON PROPOSED MANHOLES AND INLETS. THEREFORE, PRECAST REINFORCED CONCRETE FLAT SLAB TOPS ARE REQUIRED. THE TOP OF GRATE ELEVATIONS SHOWN ON THE PLANS REFER TO THE ELEVATION OF THE FRAME AND GRATE FLOWLINE. ALL DITCHES SHALL BE RE-GRADED/SHAPED TO ENSURE ALL STORM WATER RUNOFF ENTERS THE INTENDED DITCH INLET (TYPE 8 GRATE).

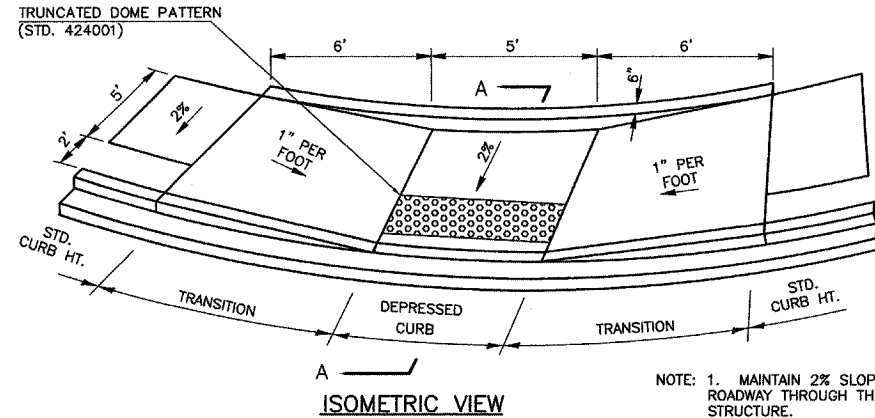
ALL TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO, WORK ZONE, TEMPORARY, AND PERMANENT, SHALL BE FURNISHED, INSTALLED, MAINTAINED, RELOCATED, AND/OR REMOVED IN ACCORDANCE WITH SECTION 700 OF THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH APPROPRIATE LIGHTING.

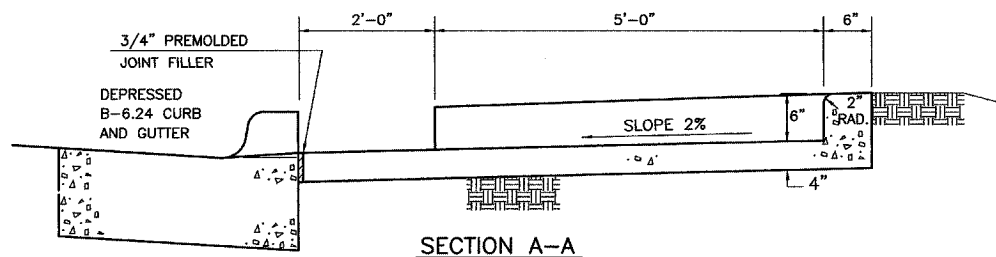
NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED. LANE CLOSURES SHALL BE RESTRICTED TO THE HOURS FROM 9:00 AM TO 2:00 PM LOCAL TIME, MONDAY THROUGH FRIDAY.

TRAFFIC CONTROL SIGNS SHALL BE 48" FLUORESCENT ORANGE.

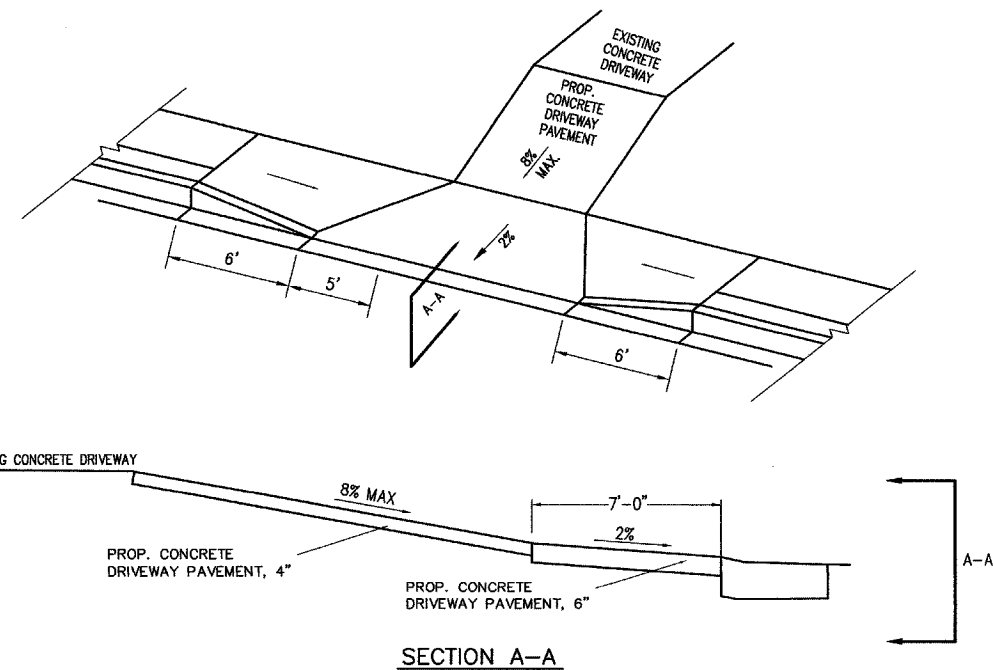
THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF MASCOUTAH AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.



NOTE: 1. MAINTAIN 2% SLOPE TOWARD THE ROADWAY THROUGH THE RAMP STRUCTURE.  
 2. WALL SHALL BE POURED MONOLITHIC WITH RAMP STRUCTURE.



SECTION A-A  
 SIDEWALK RAMP DETAILS

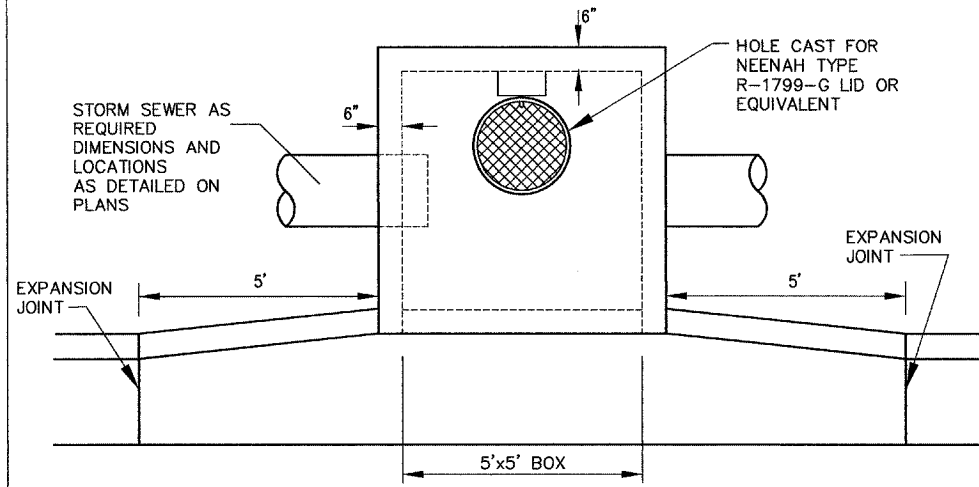


SECTION A-A  
 PRIVATE ENTRANCE

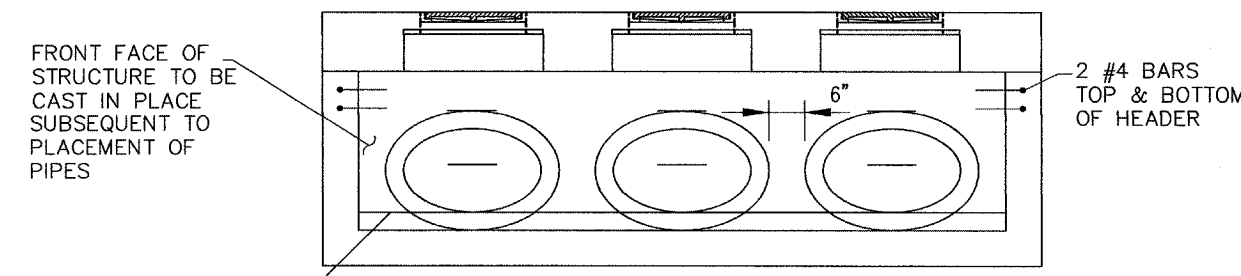
EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
3,100 C.Y.	2,325 C.Y.	112 C.Y.	WASTE (+) OR SHORTAGE (-) +2,213 C.Y.

REVISIONS	
NAME	DATE

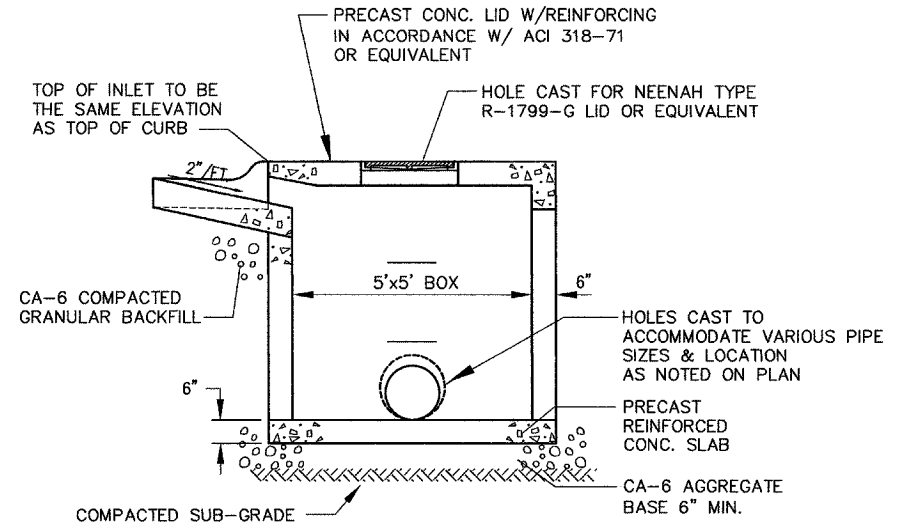
GENERAL NOTES AND MISCELLANEOUS DETAILS  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS



PLAN



FRONT VIEW



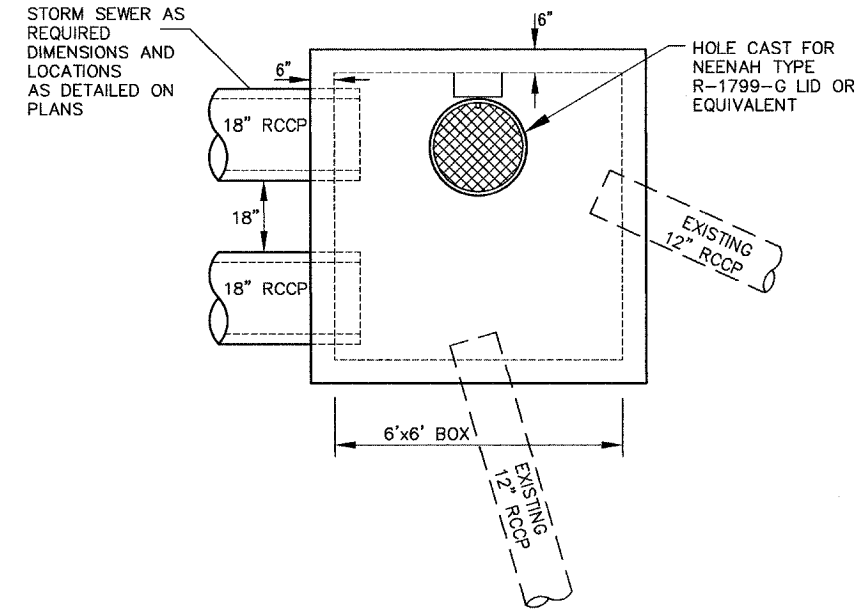
ELEVATION

**SPECIFICATIONS:**  
PRE-CAST INLET SHALL CONFORM TO ASTM C-478

**EXECUTION:**  
ALL WORK SHALL CONFORM TO ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

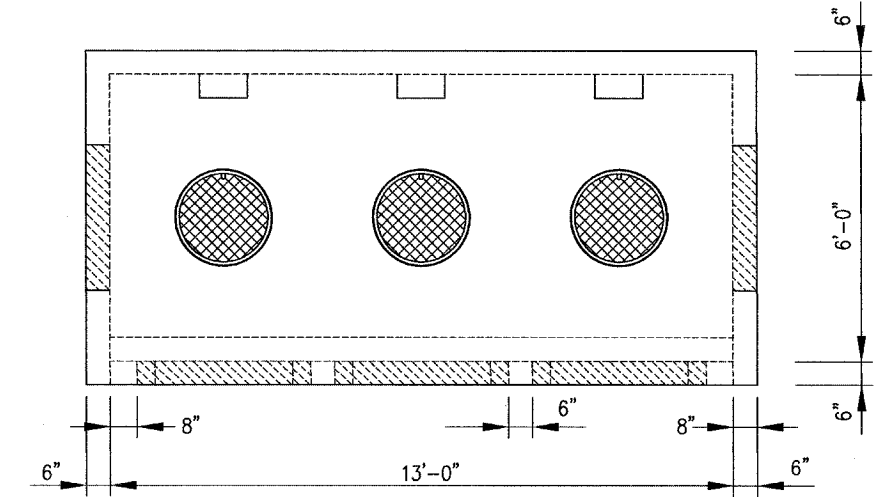
TYPICAL OPEN THROAT INLET

INLET, SPECIAL #1  
VARIOUS LOCATIONS



PLAN

INLET, SPECIAL #2  
STA 41+38.36 LT



TOP VIEW

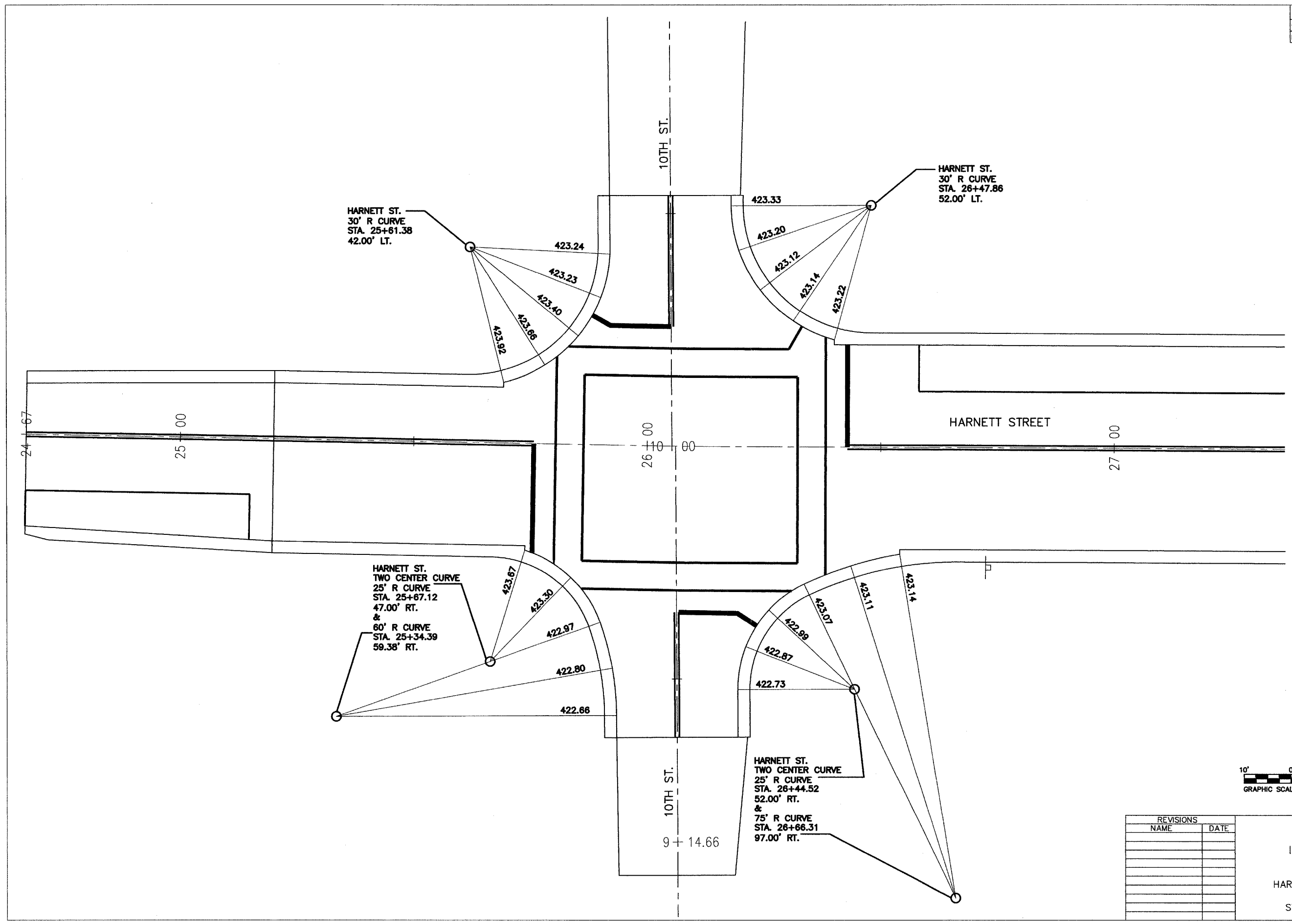
INLET, SPECIAL #3  
STA 36+21.83 LT & RT

REVISIONS	
NAME	DATE

STORM SEWER DETAILS  
HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	8
HARNETT ST./10TH ST.				

CONTRACT NO. 97242



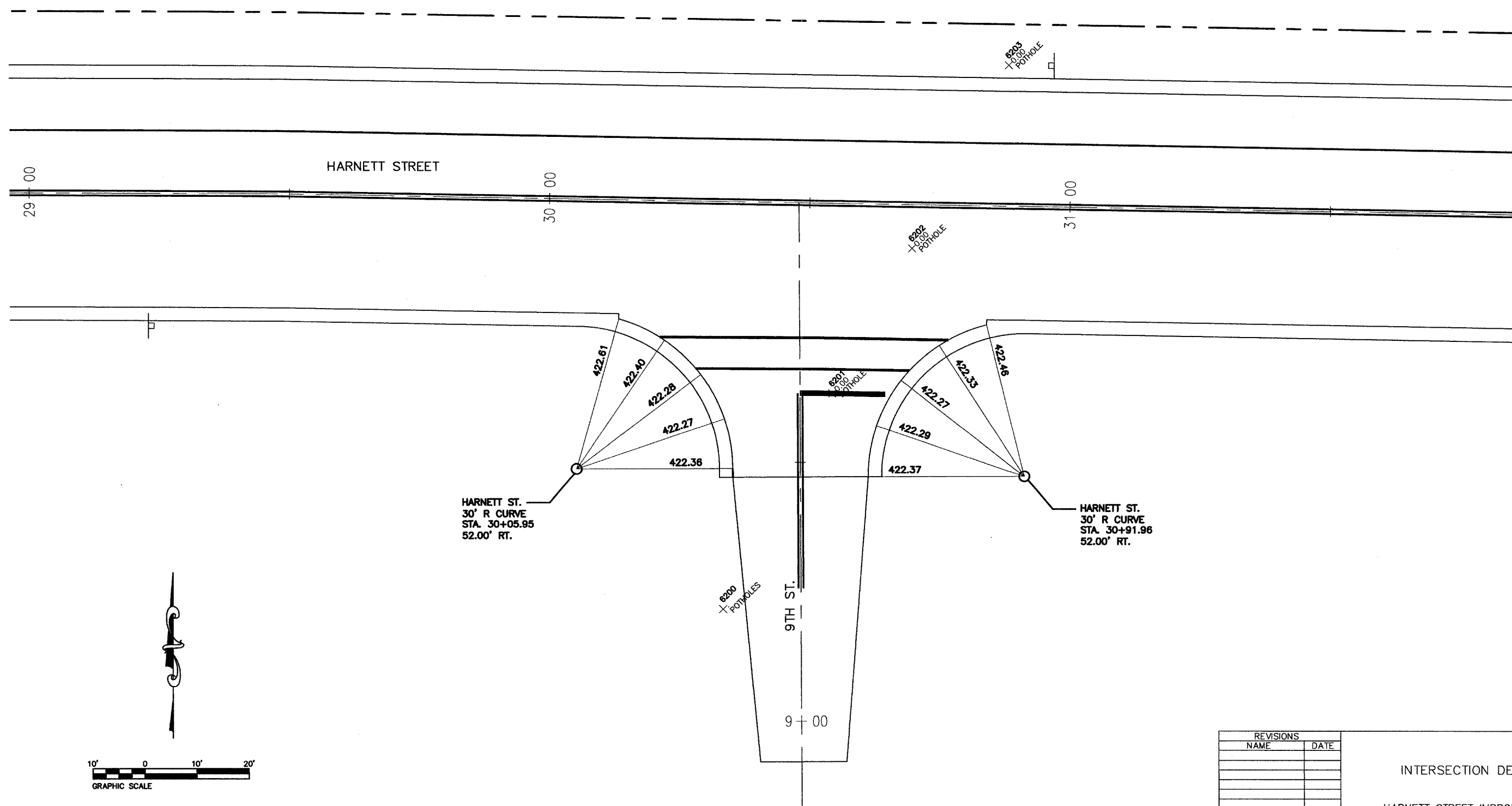
REVISIONS	
NAME	DATE

INTERSECTION DETAIL  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS



PAV ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
9376	00-00017-00-RP	ST. CLAIR	33	9
HARNETT ST./9TH ST.				

CONTRACT NO. 97242



HARNETT ST.  
30' R CURVE  
STA. 30+05.95  
52.00' RT.

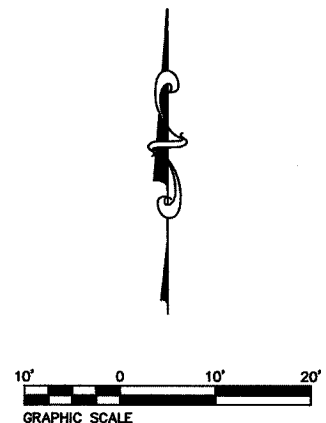
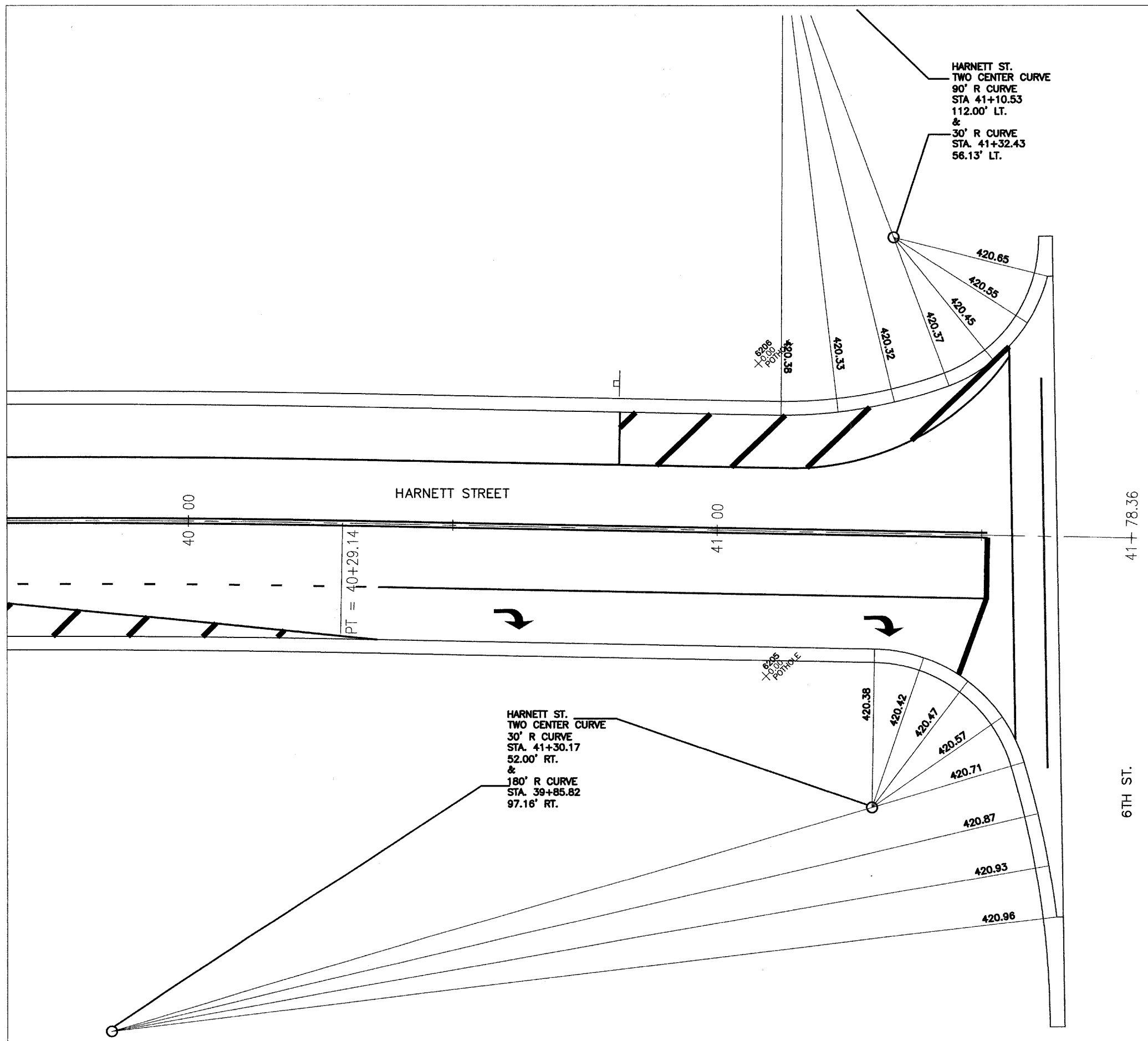
HARNETT ST.  
30' R CURVE  
STA. 30+91.96  
52.00' RT.

REVISIONS	
NAME	DATE

INTERSECTION DETAIL  
HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	10
HARNETT ST./6TH ST.				

CONTRACT NO. 97242

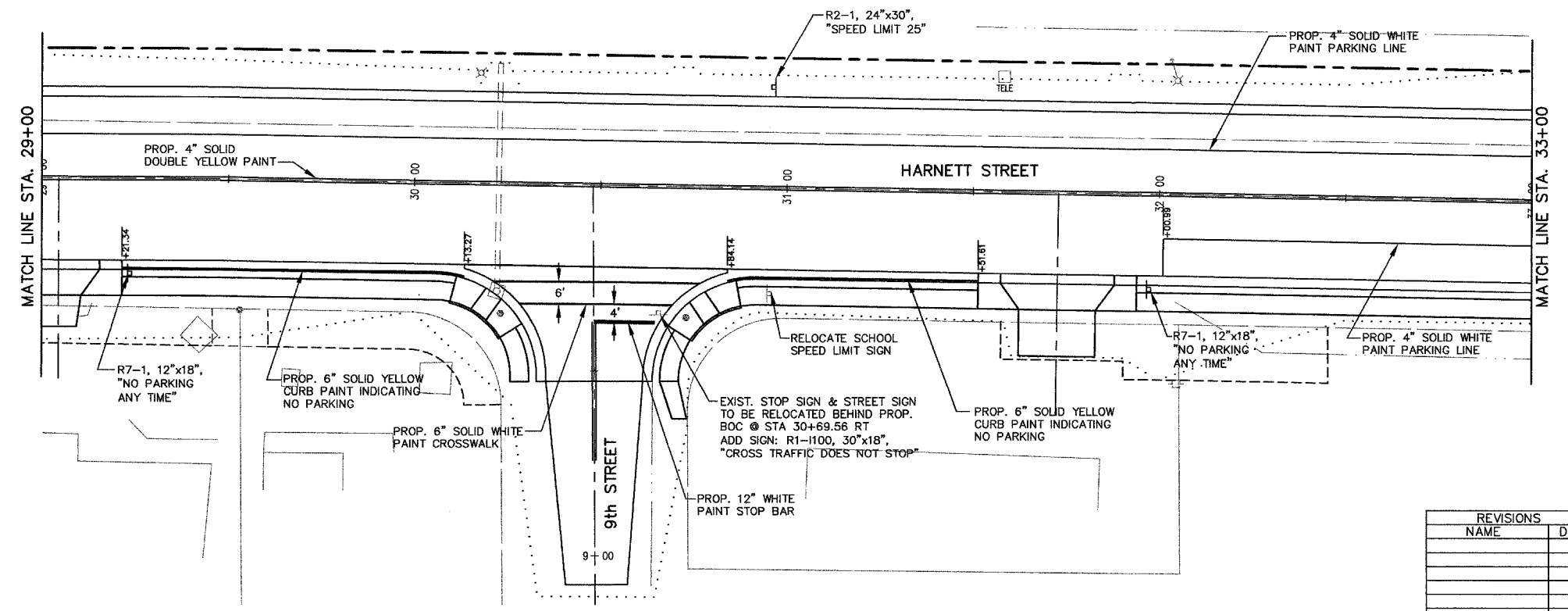
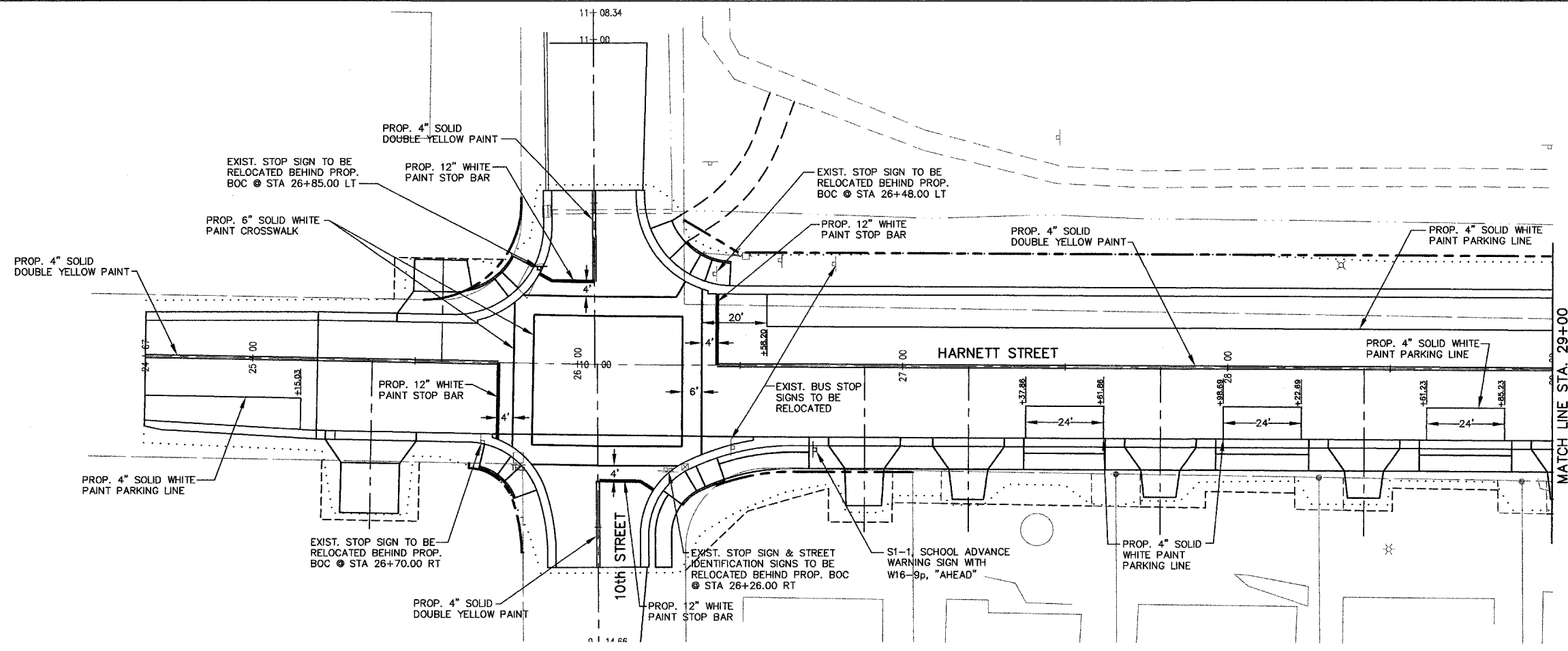


REVISIONS	
NAME	DATE

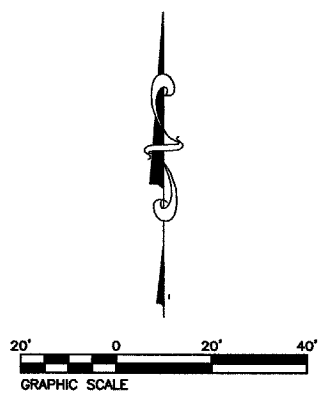
INTERSECTION DETAIL  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS

PAV ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	11
STA. 24+67		TO STA. 33+00		
PAVEMENT MARKING AND SIGNAGE DETAIL				

CONTRACT NO. 97242



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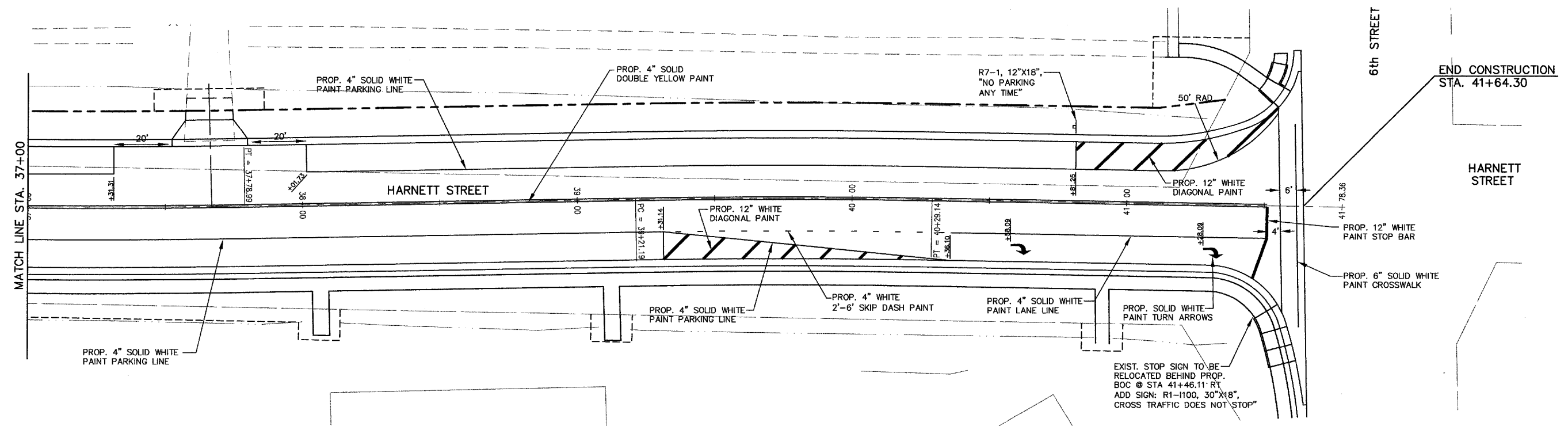
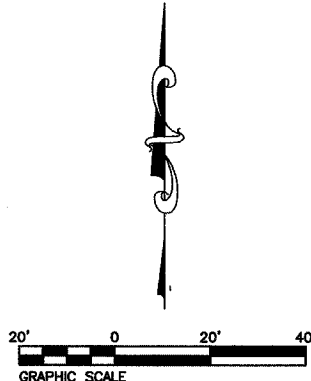
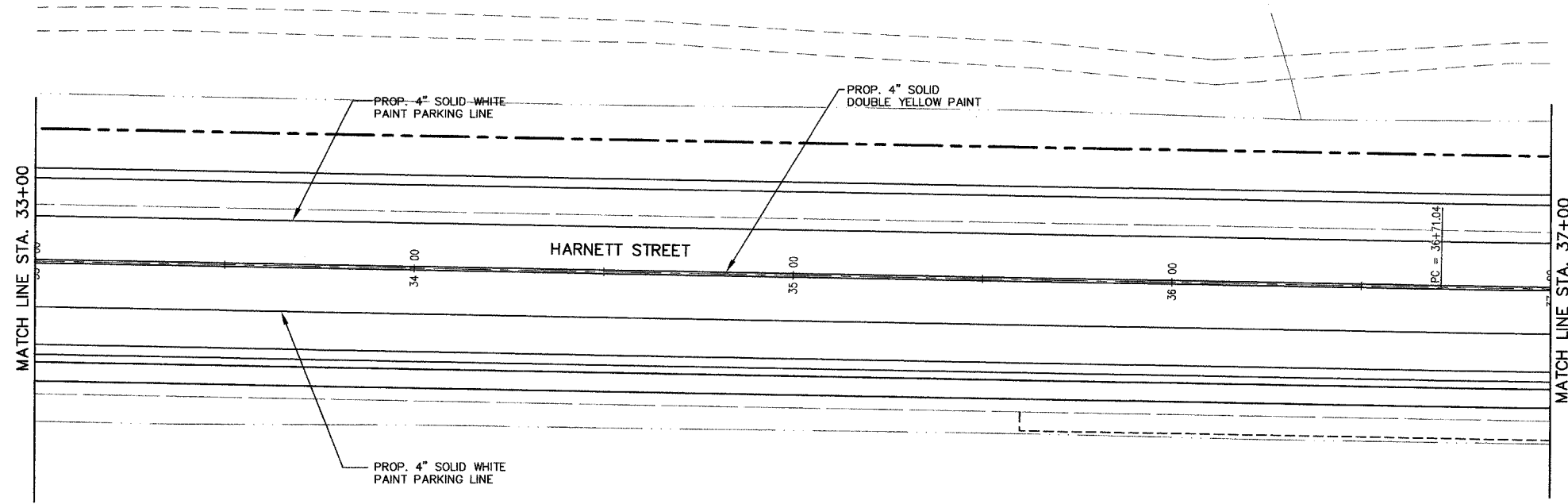


REVISIONS	
NAME	DATE

PAVEMENT MARKING AND SIGNAGE DETAILS  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	12
STA. 33+00		TO STA. 41+64.30		
PAVEMENT MARKING AND SIGNAGE DETAIL				

CONTRACT NO. 97242



REVISIONS	
NAME	DATE

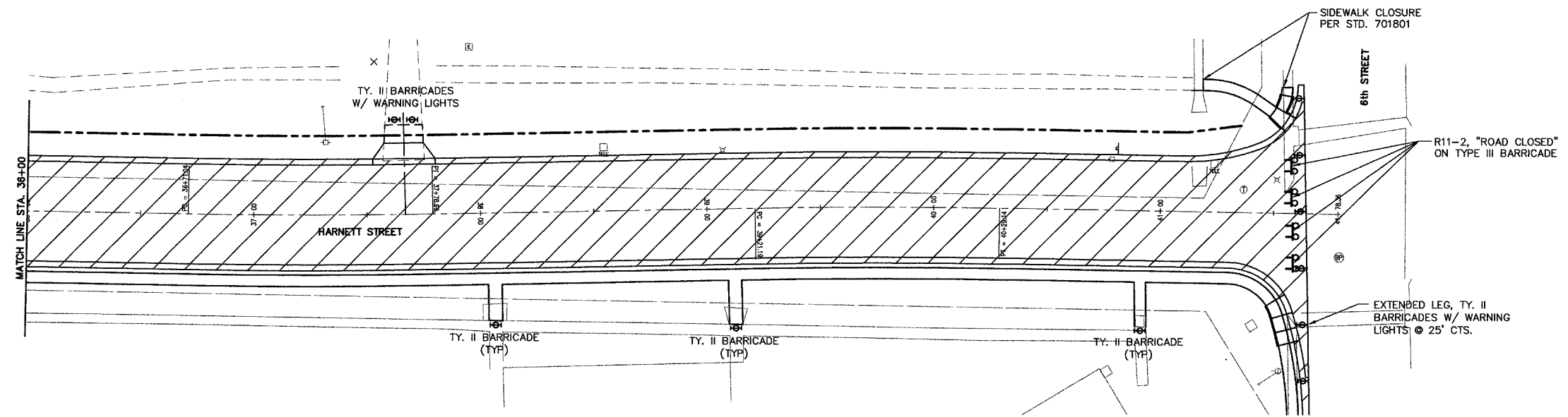
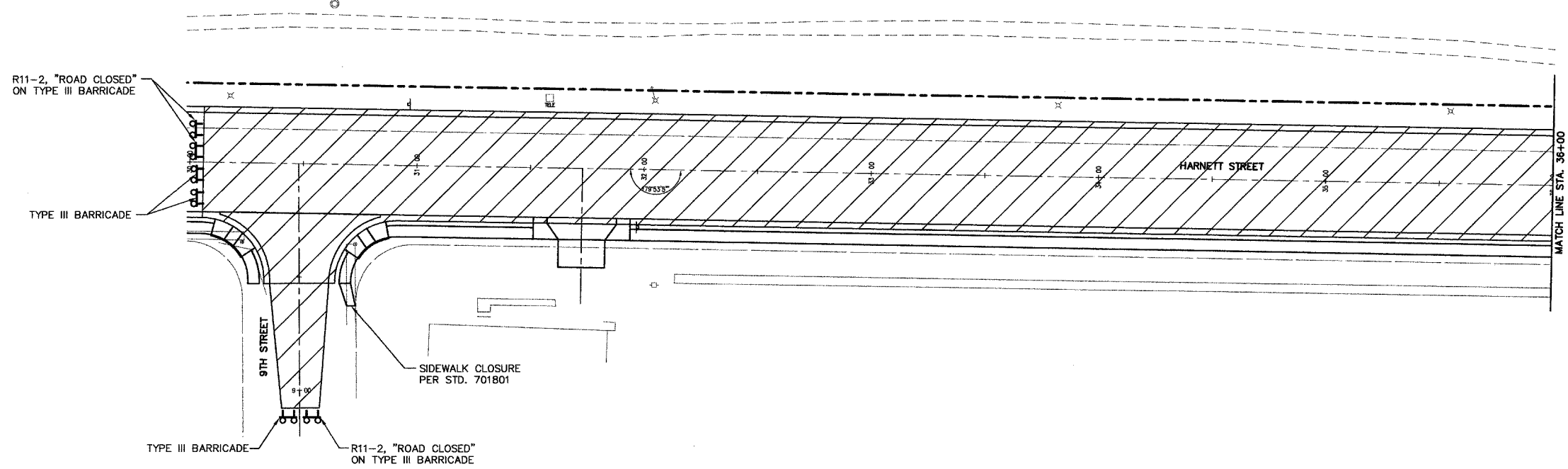
PAVEMENT MARKING AND SIGNAGE DETAILS  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS

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PAV ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
9376	00-00017-00-RP	ST. CLAIR	33	13
STA. 30+05.95		TO STA. 41+64.30		
STAGE 1				

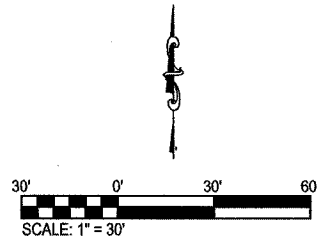
CONTRACT NO. 97242

**STAGE 1 CONSTRUCTION**  
**HARNETT ST. STA 30+05.95 TO 41+64.30**  
**9TH ST. STA 9+78 TO 8+92.14**



**LEGEND**  
 PAVEMENT TO BE COMPLETED THIS STAGE

NOTE: STAGE 1 PAVEMENT IS TO BE MARKED ACCORDING TO SHEET #12 WITH TEMPORARY PAVEMENT MARKING



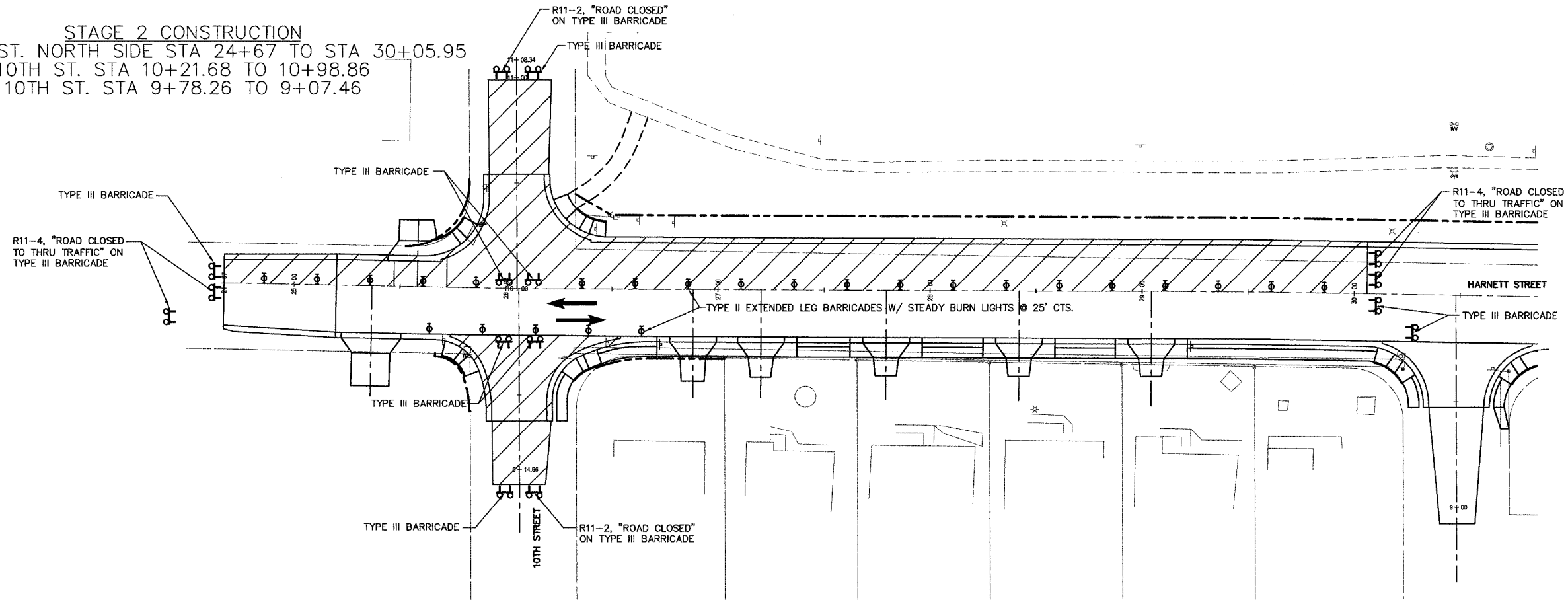
REVISIONS	
NAME	DATE

**CONSTRUCTION STAGING PLAN STAGE 1**  
**HARNETT STREET IMPROVEMENTS**  
**CITY OF MASCOUTAH**  
**ST. CLAIR COUNTY, ILLINOIS**

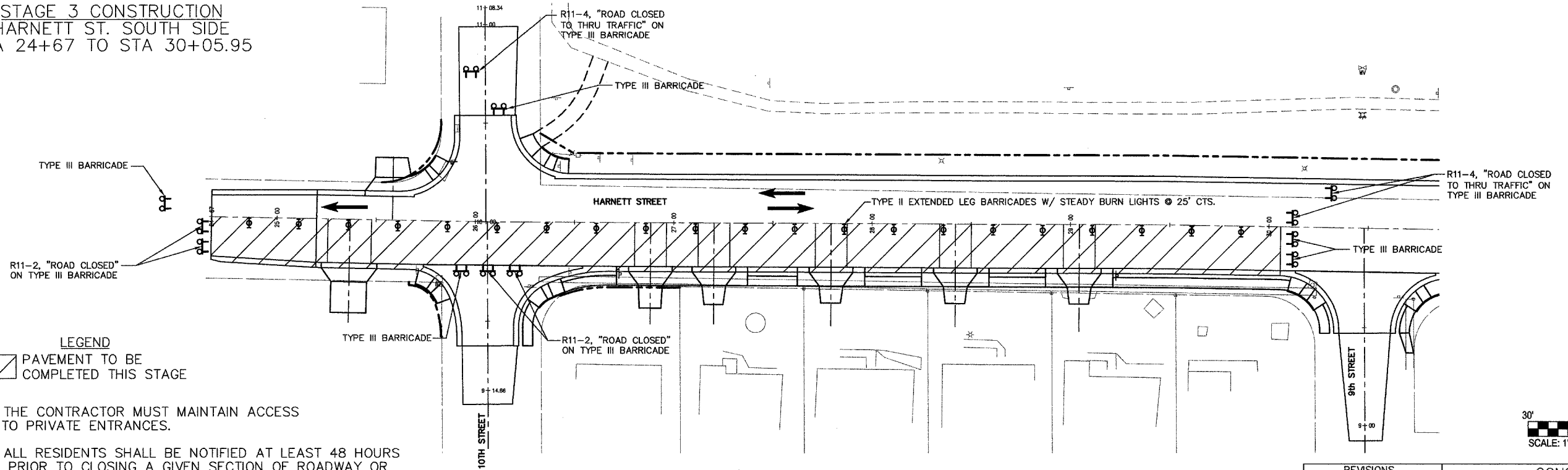
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PAN ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	14
STA. 24+67		TO STA. 30+05.95		
STAGE 2 AND STAGE 3				
CONTRACT NO. 97242				

**STAGE 2 CONSTRUCTION**  
**HARNETT ST. NORTH SIDE STA 24+67 TO STA 30+05.95**  
**10TH ST. STA 10+21.68 TO 10+98.86**  
**10TH ST. STA 9+78.26 TO 9+07.46**



**STAGE 3 CONSTRUCTION**  
**HARNETT ST. SOUTH SIDE**  
**STA 24+67 TO STA 30+05.95**

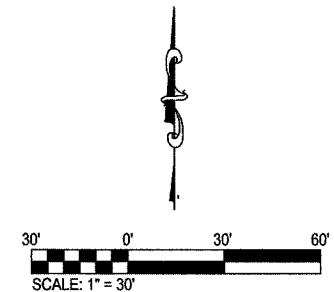


**LEGEND**  
 PAVEMENT TO BE COMPLETED THIS STAGE

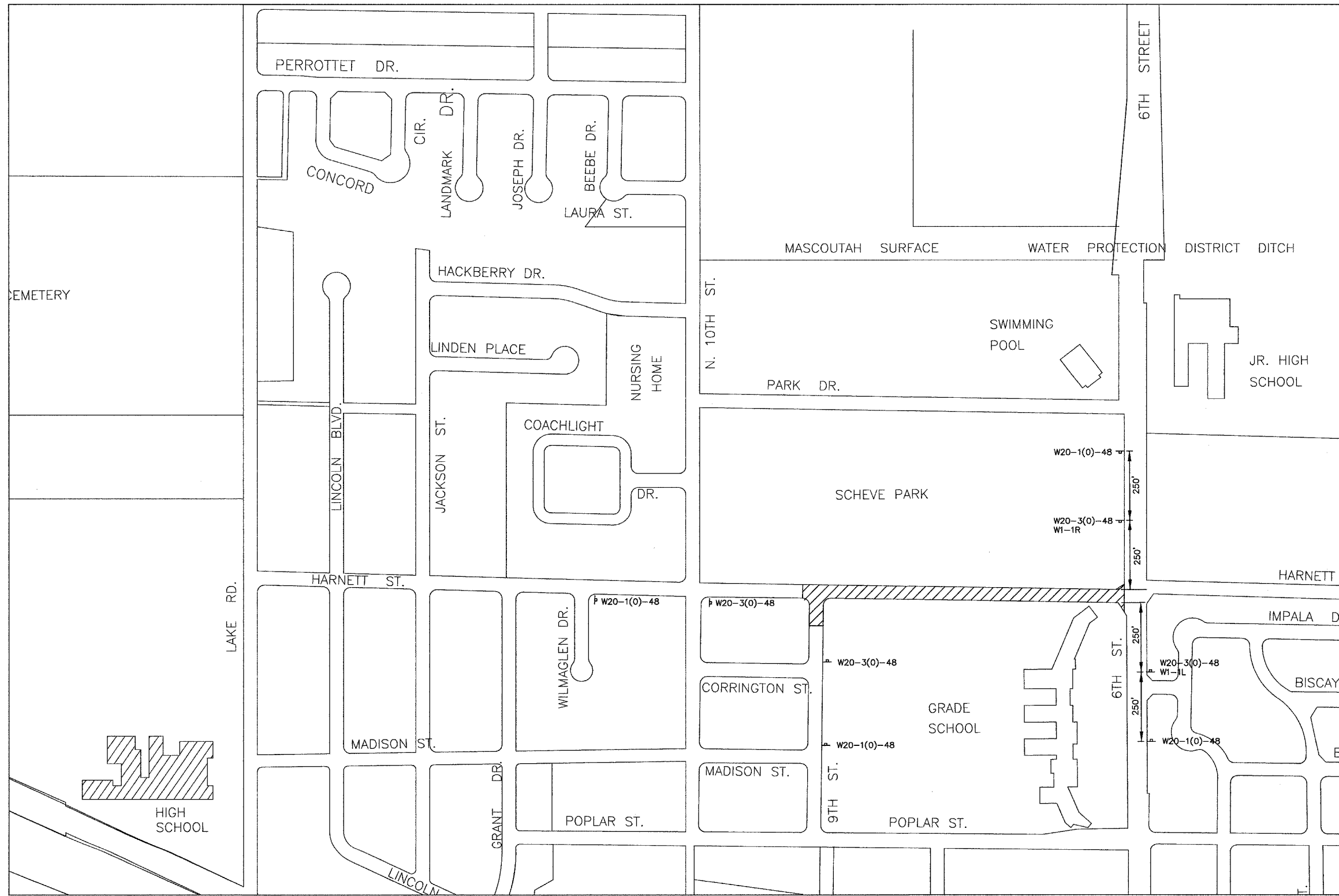
- NOTES:**
1. THE CONTRACTOR MUST MAINTAIN ACCESS TO PRIVATE ENTRANCES.
  2. ALL RESIDENTS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CLOSING A GIVEN SECTION OF ROADWAY OR RECONSTRUCTING AN INDIVIDUAL'S DRIVEWAY.
  3. SHORT TERM PAVEMENT MARKING FOR CL STRIPING TO BE USED ON STAGE 2 & STAGE 3 CONSTRUCTION IN ACCORDANCE WITH SECTION 703.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS	
NAME	DATE

CONSTRUCTION STAGING PLAN STAGES 2 AND 3  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS



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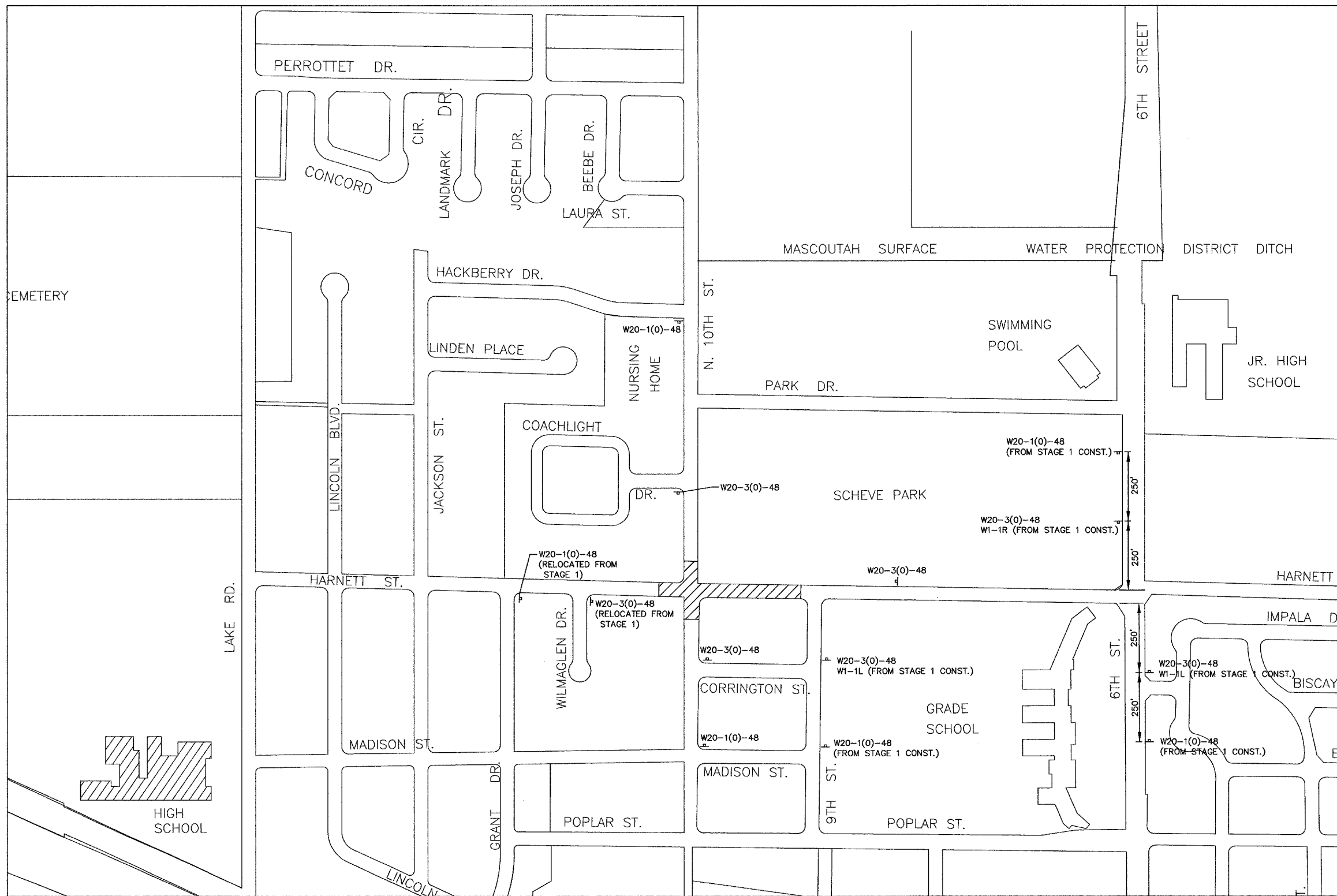


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▨ DENOTES STAGE 1 CONSTRUCTION LIMITS

REVISIONS	
NAME	DATE

TRAFFIC CONTROL PLAN  
 STAGE 1  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS

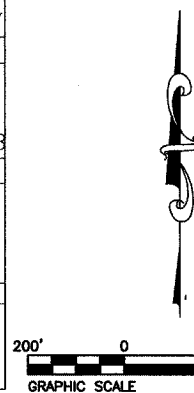


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▨ DENOTES STAGE 2 AND STAGE 3 CONSTRUCTION LIMITS

REVISIONS	
NAME	DATE

TRAFFIC CONTROL PLAN  
 STAGE 2 AND 3  
 HARNETT STREET IMPROVEMENTS  
 CITY OF MASCOUTAH  
 ST. CLAIR COUNTY, ILLINOIS





# STORM WATER POLLUTION PREVENTION PLAN

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	17
STA.		TO STA.		

CONTRACT NO. 97242

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE-BY-CASE SITUATION DEPENDING ON THE CONTRACTORS SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

## SITE DESCRIPTION

### DESCRIPTION OF CONSTRUCTION ACTIVITIES

1. THE PROPOSED PROJECT CONSISTS OF RECONSTRUCTING HARNETT STREET WITH A NEW RIGID PAVEMENT AND CURB AND GUTTER AS WELL AS THE CONSTRUCTION OF A NEW STORM SEWER SYSTEM AND SIDEWALKS.
2. CONSTRUCTION CONSISTS OF EARTHWORK, DITCHES, PAVEMENT, CURB AND GUTTER, STORM SEWERS AND OTHER MISCELLANEOUS ITEMS TO COMPLETE THE WORK.

### DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE

1. CONSTRUCT PROPOSED EMBANKMENT, STORM SEWERS, AND DRAINAGE STRUCTURES ALONG ENTIRE LENGTH OF PROJECT.
2. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN UP OF TEMPORARY EROSION CONTROL SUCH AS INLET AND PIPE PROTECTION.
3. PAVEMENT CONSTRUCTION INCLUDING CURB AND GUTTER.
4. FINAL GRADING AND OTHER MISCELLANEOUS ITEMS.
5. PLACEMENT OF PERMANENT EROSION CONTROL SUCH AS RIP RAP, SEEDING, ETC.

### AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE TO BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES IS ESTIMATED TO BE 2.85 ACRES.

OTHER REPORTS AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS, AND SPECIAL PROVISIONS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

## CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL

### DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

1. THE DRAINAGE SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE ON PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

- (a) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.

- (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
  - (c) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
  - (d) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
  - (e) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.
  3. A THIRD BENEFIT OF THESE AREAS IS THAT THEY WILL BEGIN TO PROVIDE A SCREEN AND BUFFER. THEY WILL HELP PROTECT THE CONSTRUCTION SITE FROM WINDS AND EXCESS SUN AND MITIGATE CONSTRUCTION NOISE AND DUST.

### DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS, AS OUTLINED PREVIOUSLY HEREIN, SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

1. WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL FULL-SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
2. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
3. AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
  - (a) PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
  - (b) TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
  - (c) CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
  - (d) TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS.
4. EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
5. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
6. THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER (OR EQUIVALENT SNOWFALL) AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
7. SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION FOR EROSION CONTROL.

8. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER, AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

### DESCRIPTION OF STABILIZATION PRACTICES AFTER FINAL GRADING

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS, AS PROPOSED IN THE PLANS, ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED, AND DISTURBED TURF RESEDED (UNLESS NOTED OTHERWISE).

### MAINTENANCE AFTER CONSTRUCTION

CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

### MISCELLANEOUS

1. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS./ACRE (UNLESS NOTED OTHERWISE).
2. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), AND/OR ANY OTHER MATERIAL APPROVED BY THE EROSION AND SEDIMENT CONTROL COORDINATOR.
3. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION FOR EROSION CONTROL.
4. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT, TO THE ENGINEER, A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

NOTE: MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE

*Herald E. Dougherty*

DATE

5/23/05

TEMPORARY EROSION CONTROL				PERMANENT EROSION CONTROL				
EARTH EXC. FOR EROSION CONTROL (CU YD)	TEMP. EROSION CONTROL SEEDING (AC.)	INLET AND PIPE PROTECTION (EA.)	PERIMETER EROSION BARRIER (FT.)	SEEDING CL 1 (AC.)	NITROGEN, PHOSPHORUS, & POTASSIUM NUTRIENTS (LBS.)	MULCH, METHOD 2 (AC.)	STONE RIP RAP CLASS A4 (SQ. YD.)	FILTER FABRIC FOR USE WITH RIP RAP (SQ. YD.)
75	0.60	55	3,000	0.6	47	0.6	8	8



PREPARED BY:  
**THOUVENOT, WADE & MOERCHEN, INC.**

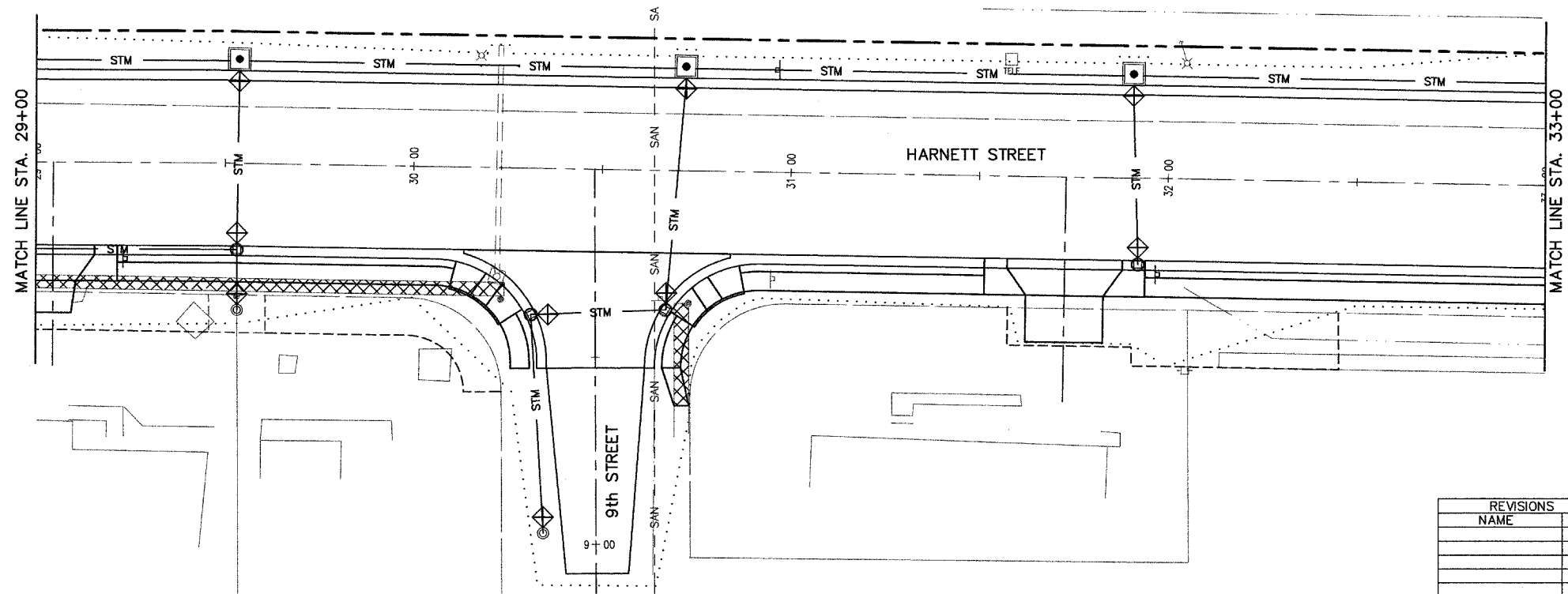
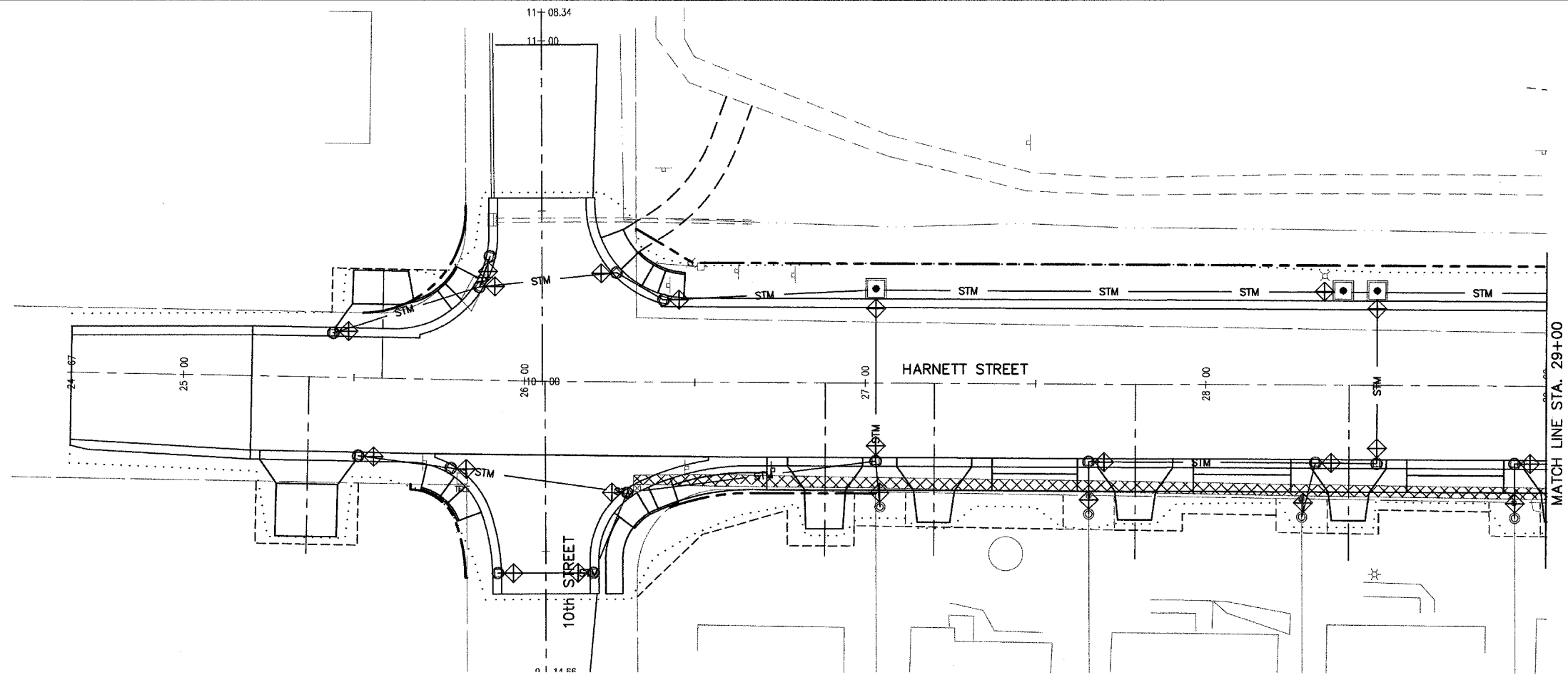
REVISIONS	
NAME	DATE

STORM WATER POLLUTION PREVENTION PLAN

HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

FW NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
9376	00-00017-00-RP	ST. CLAIR	33	18
STA. 24+67		TO STA. 33+00		
STORM WATER POLLUTION PREVENTION PLAN				

CONTRACT NO. 97242



**LEGEND**

INLET & PIPE PROTECTION

REVISIONS	
NAME	DATE

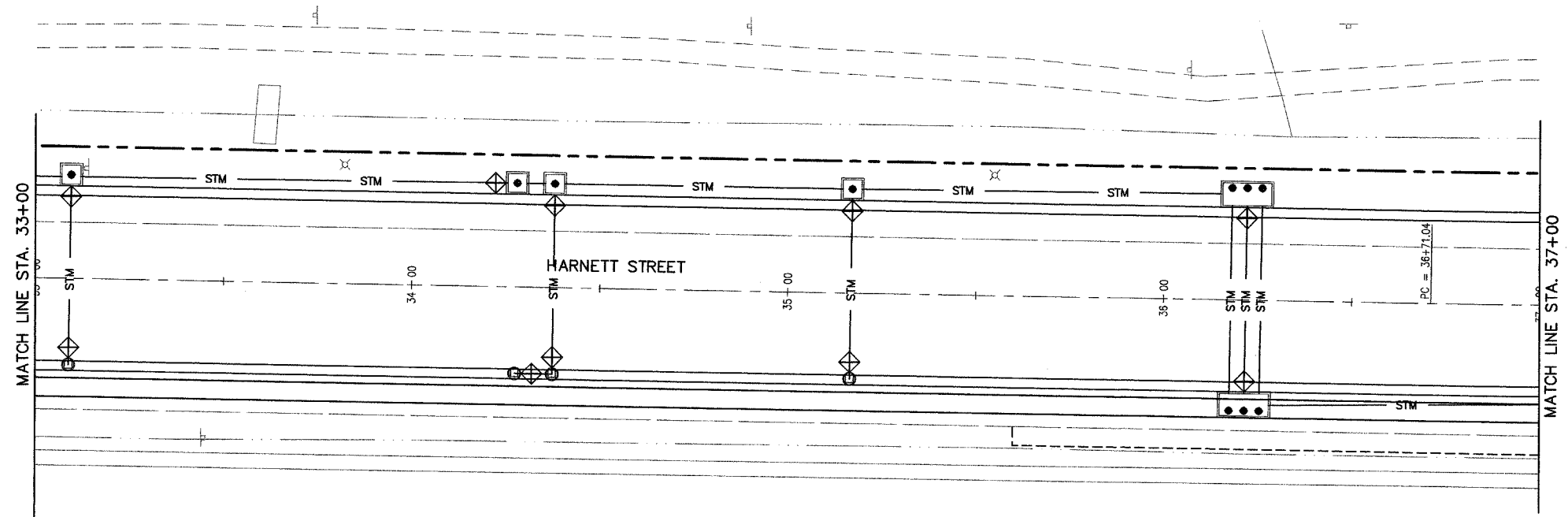
STORM WATER POLLUTION PREVENTION PLAN

HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

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STA. 33+00		TO STA. 41+64.30		
STORM WATER POLLUTION PREVENTION PLAN				

CONTRACT NO. 97242



REVISIONS	
NAME	DATE

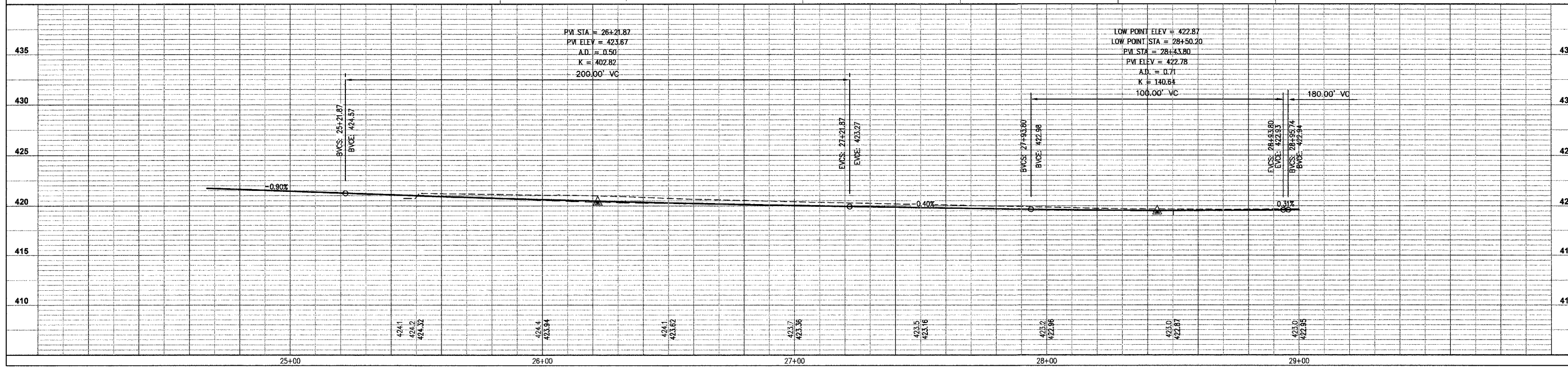
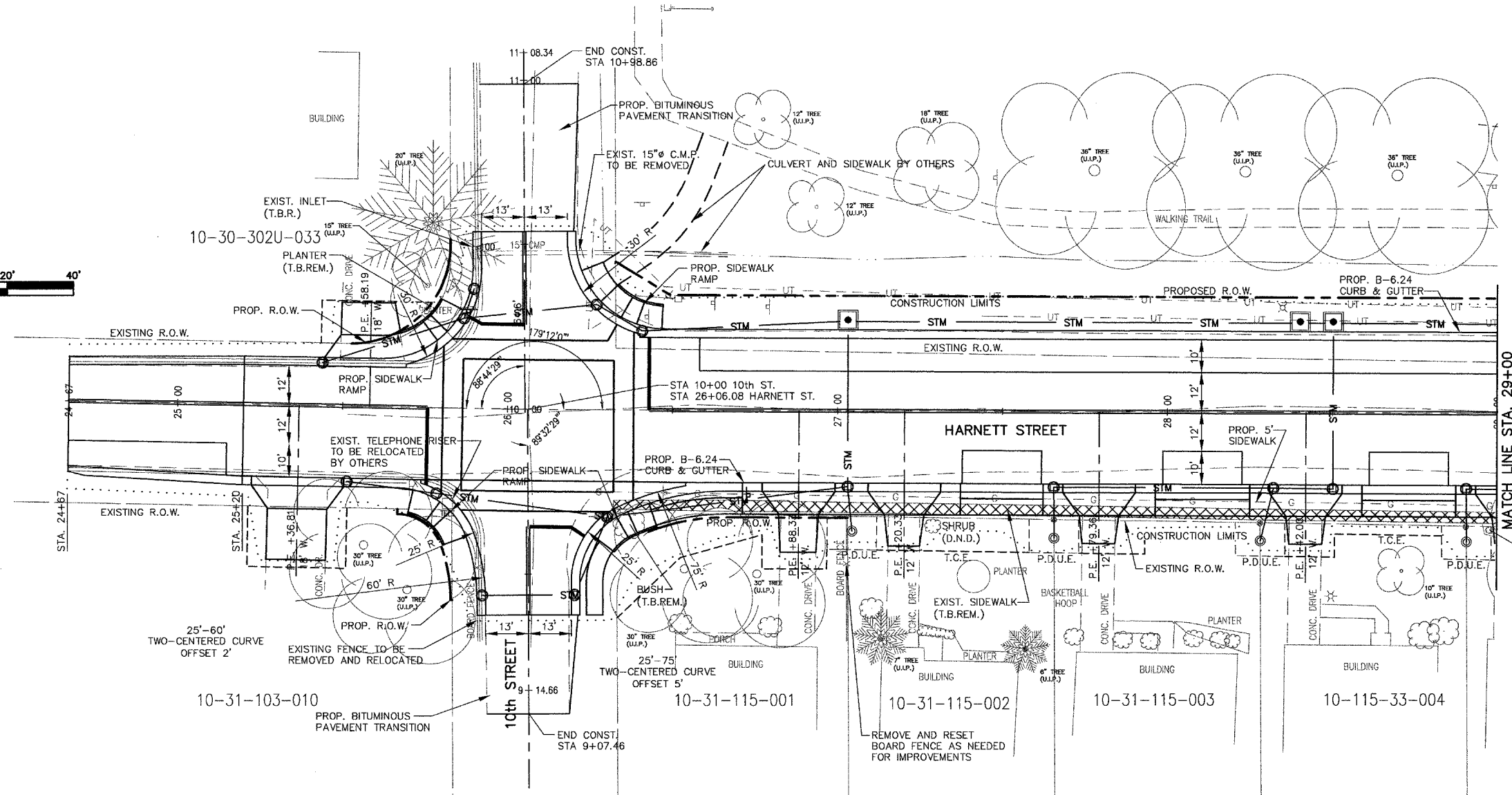
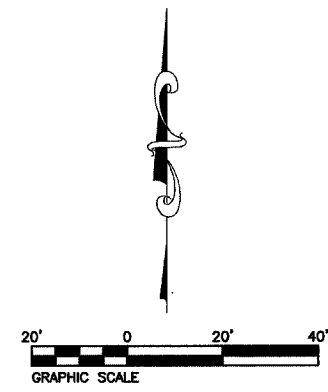
STORM WATER POLLUTION  
PREVENTION PLAN

HARNETT STREET IMPROVEMENTS  
CITY OF MASCOUTAH  
ST. CLAIR COUNTY, ILLINOIS

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PAR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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STA. 24+67		TO STA. 29+00		
STREET PLAN AND PROFILE				

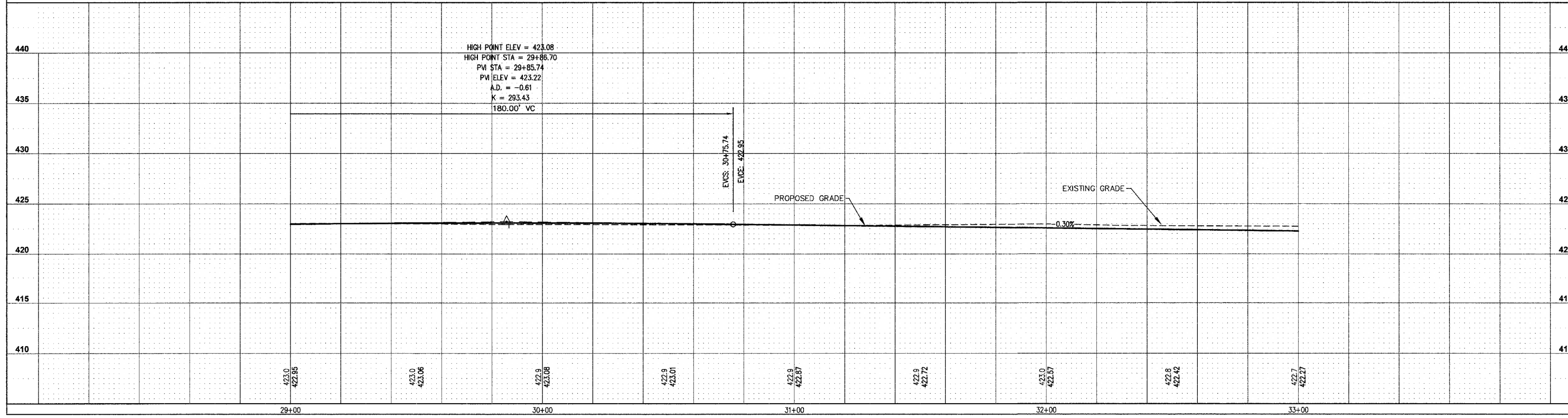
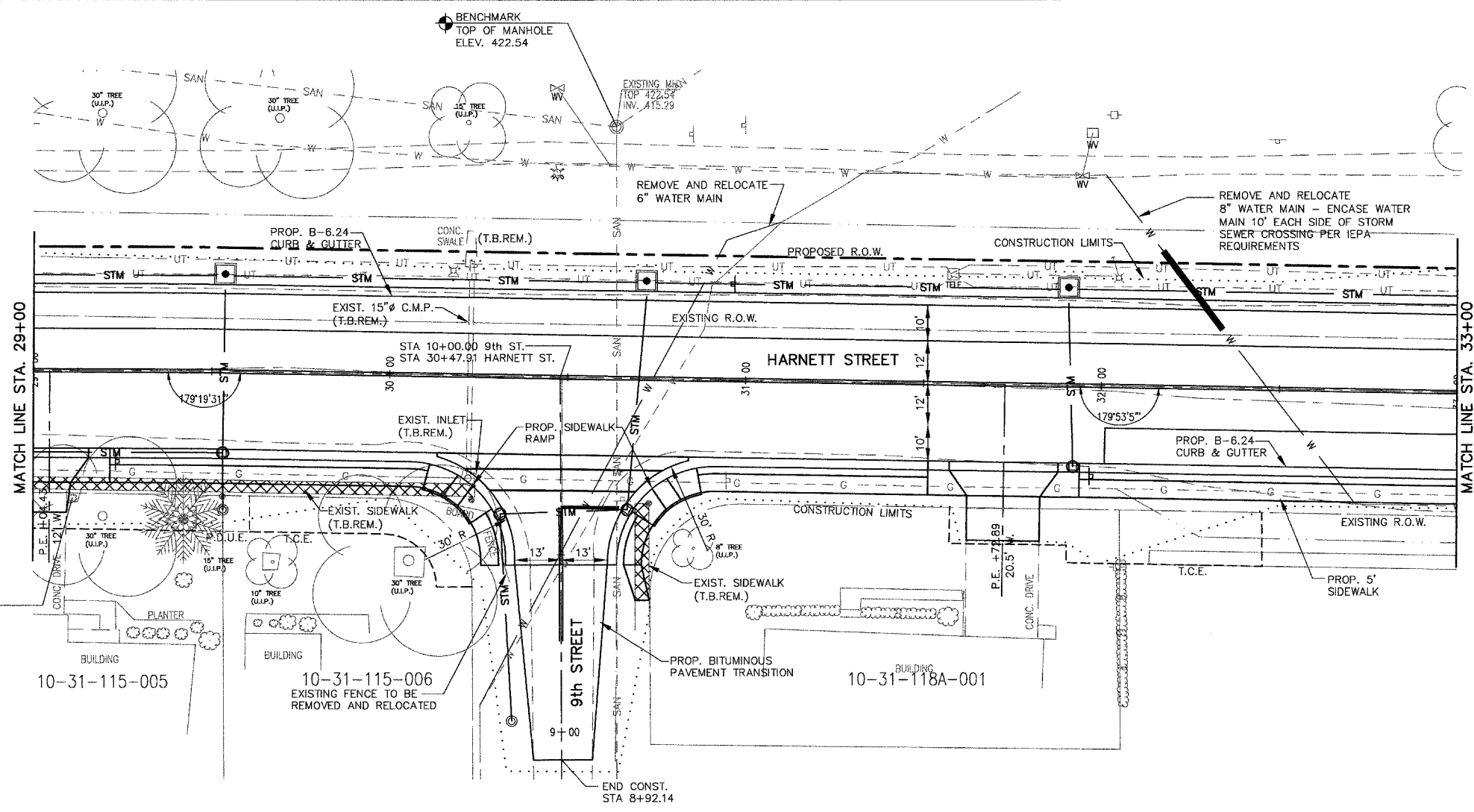
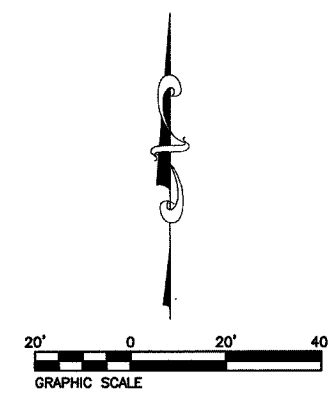
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MATCH LINE STA. 29+00  
 REMOVE & RESTORE LANDSCAPING AS NECESSARY FOR SLOPE CONST.

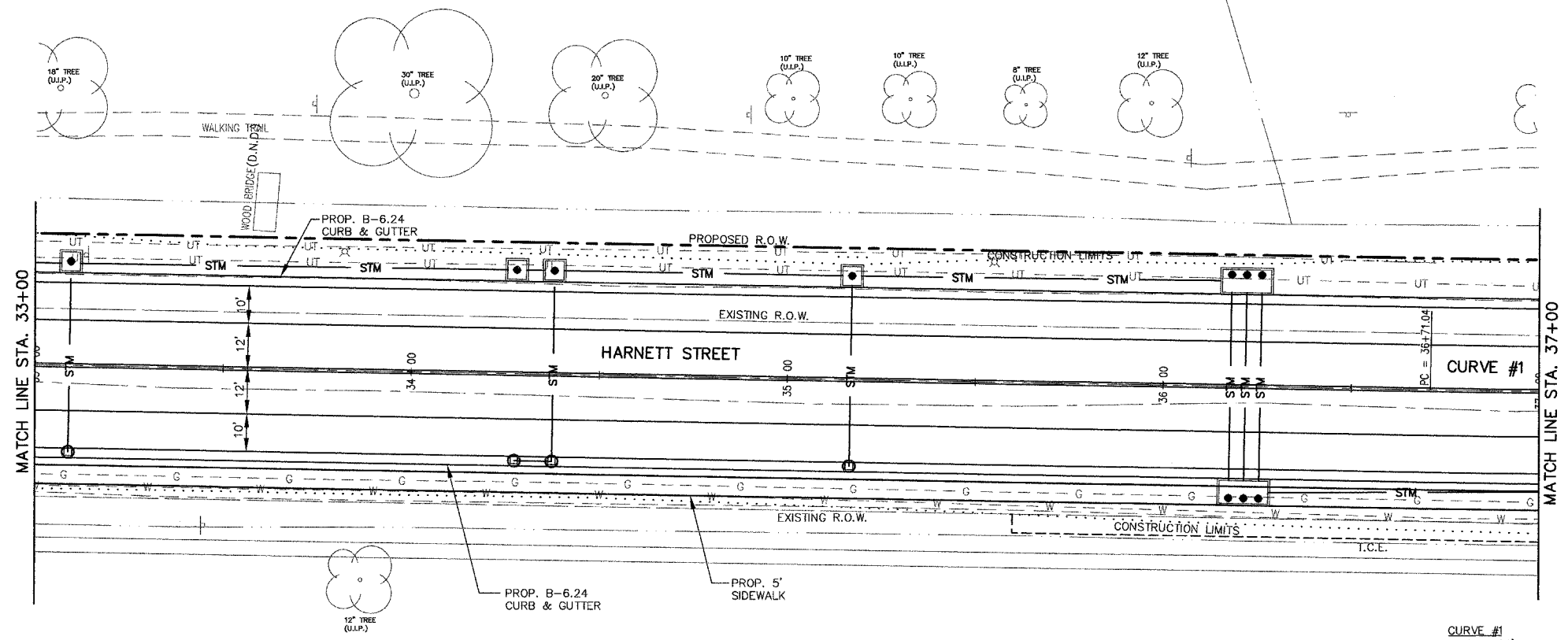
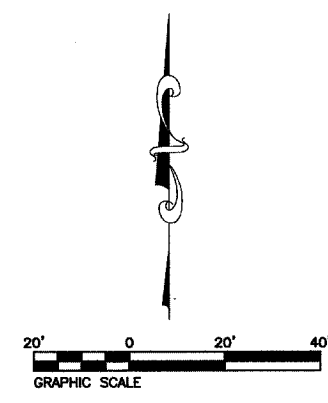
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STA. 29+00		TO STA. 33+00		
STREET PLAN AND PROFILE				

CONTRACT NO. 97242



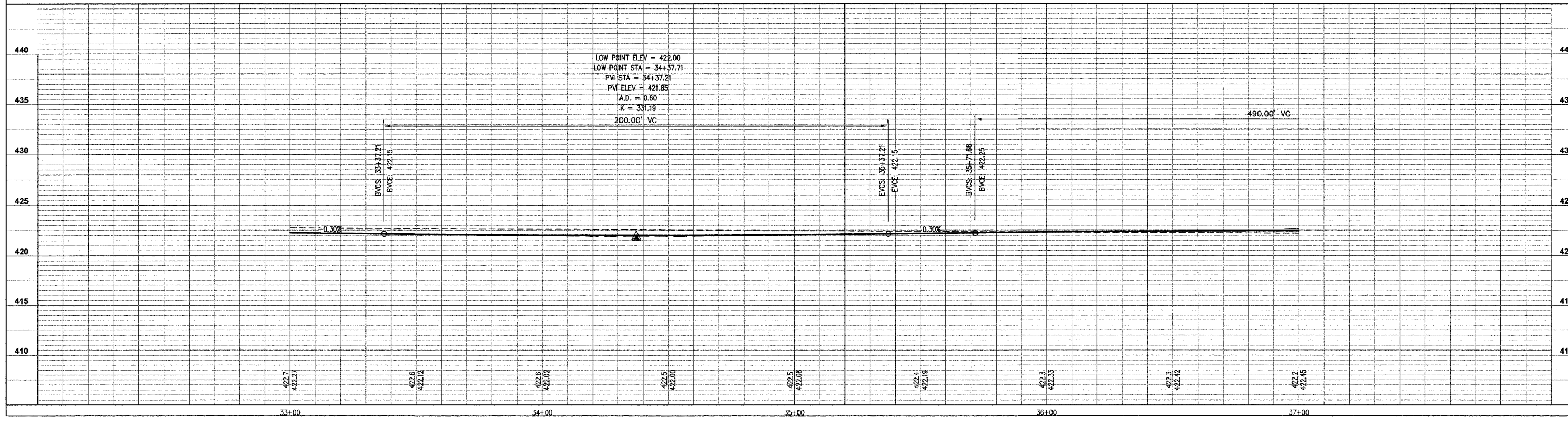
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9376	00-00017-00-RP	ST. CLAIR	33	22
STA. 33+00		TO STA. 37+00		
STREET PLAN AND PROFILE				

CONTRACT NO. 97242



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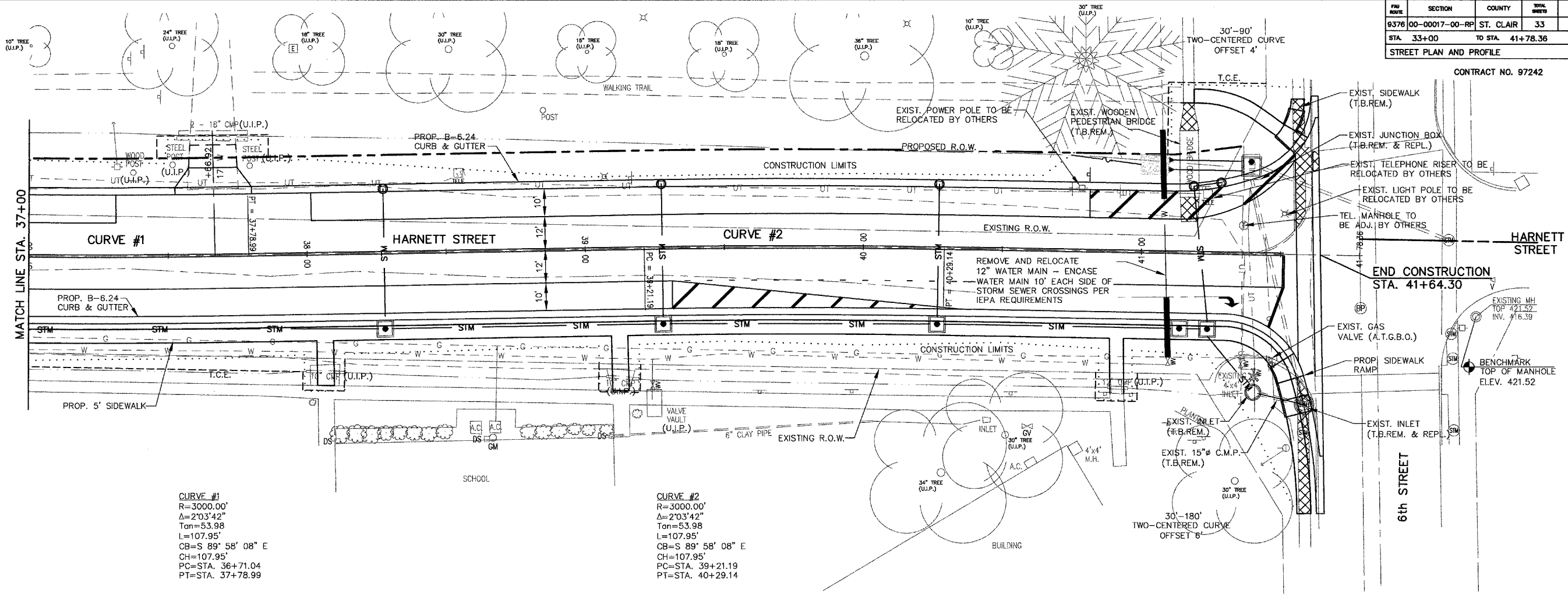
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 CB=S 89° 58' 08" E  
 CH=107.95'  
 PC=STA. 36+71.04  
 PT=STA. 37+78.99





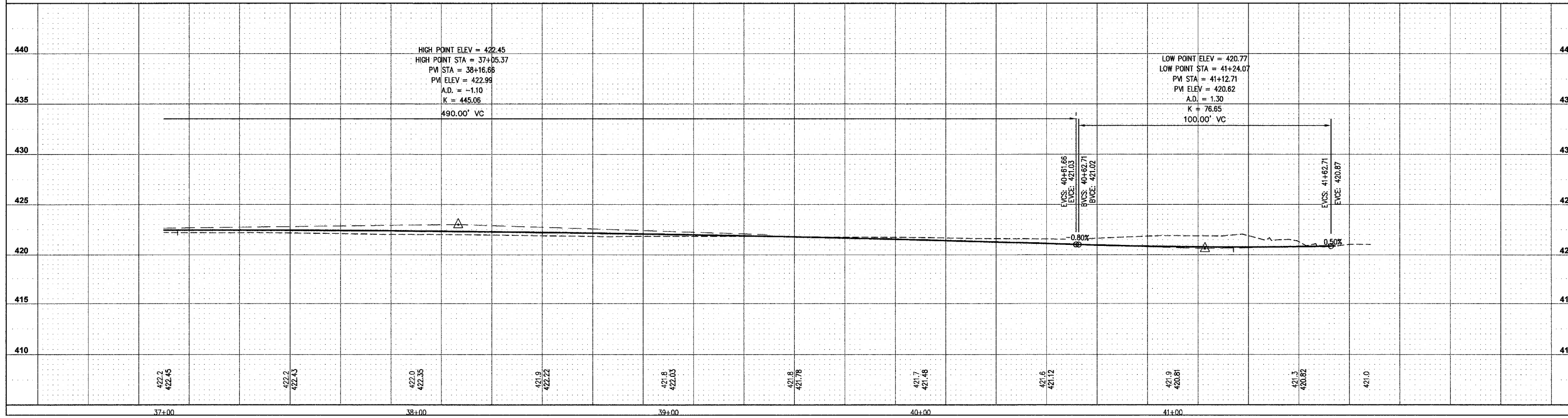
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STA. 33+00		TO STA. 41+78.36		
STREET PLAN AND PROFILE				

CONTRACT NO. 97242



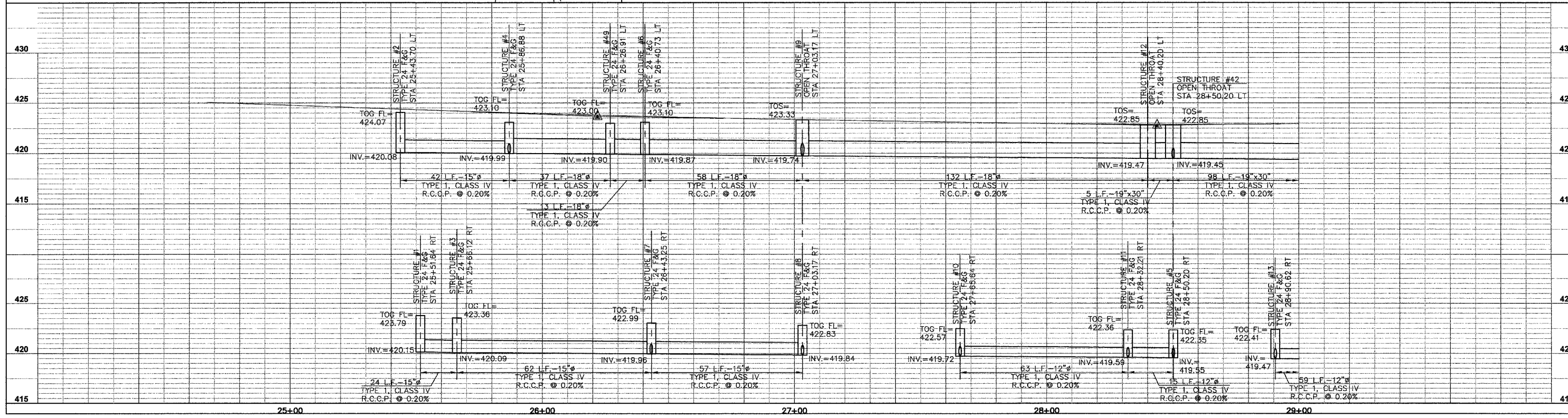
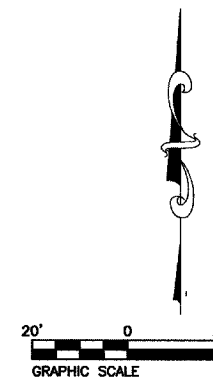
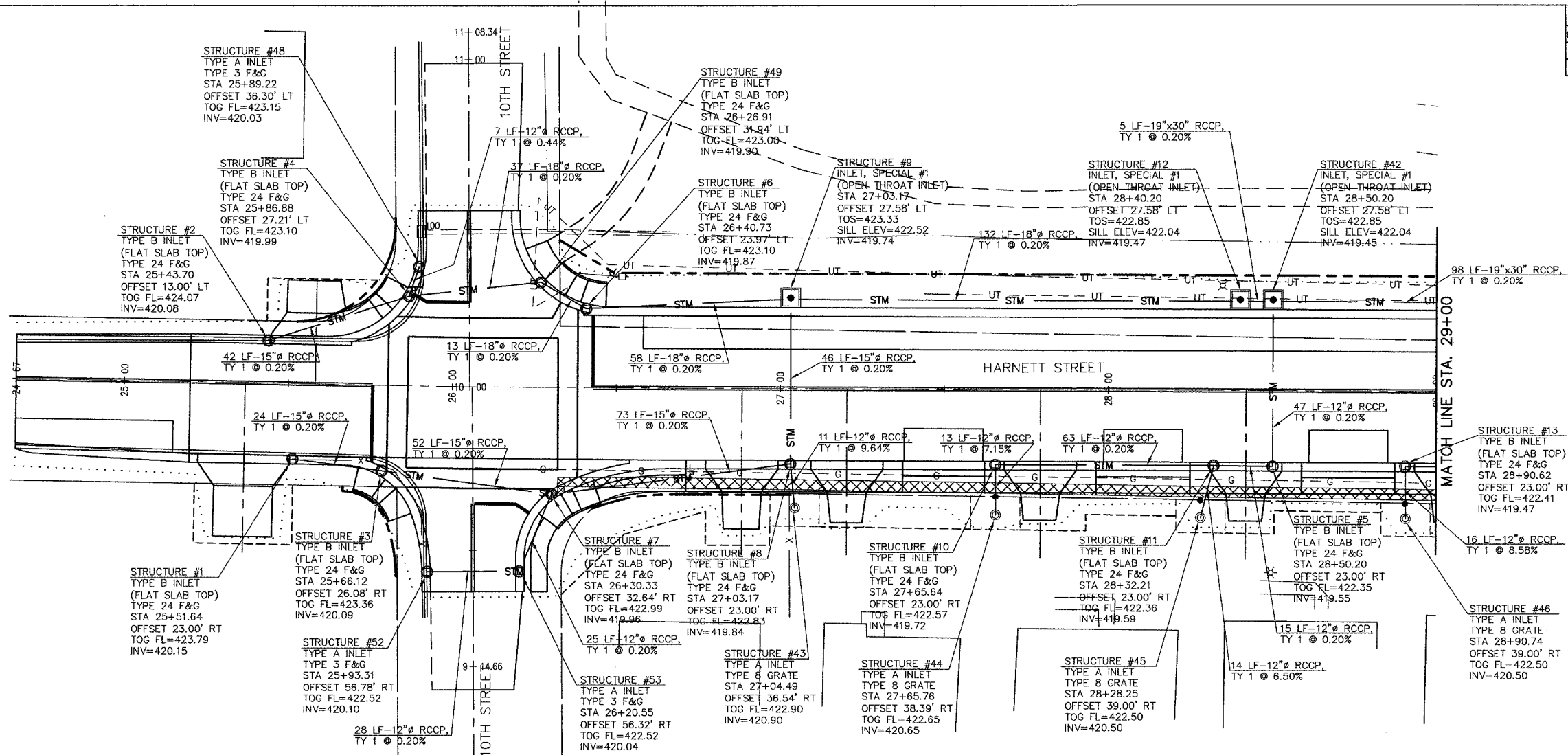
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 Tan=53.98  
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 PC=STA. 36+71.04  
 PT=STA. 37+78.99

**CURVE #2**  
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 Tan=53.98  
 L=107.95'  
 CB=S 89° 58' 08" E  
 CH=107.95'  
 PC=STA. 39+21.19  
 PT=STA. 40+29.14



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937600-00017-00-RP	ST. CLAIR	33	24	
STA. 24+67	TO STA. 29+00			

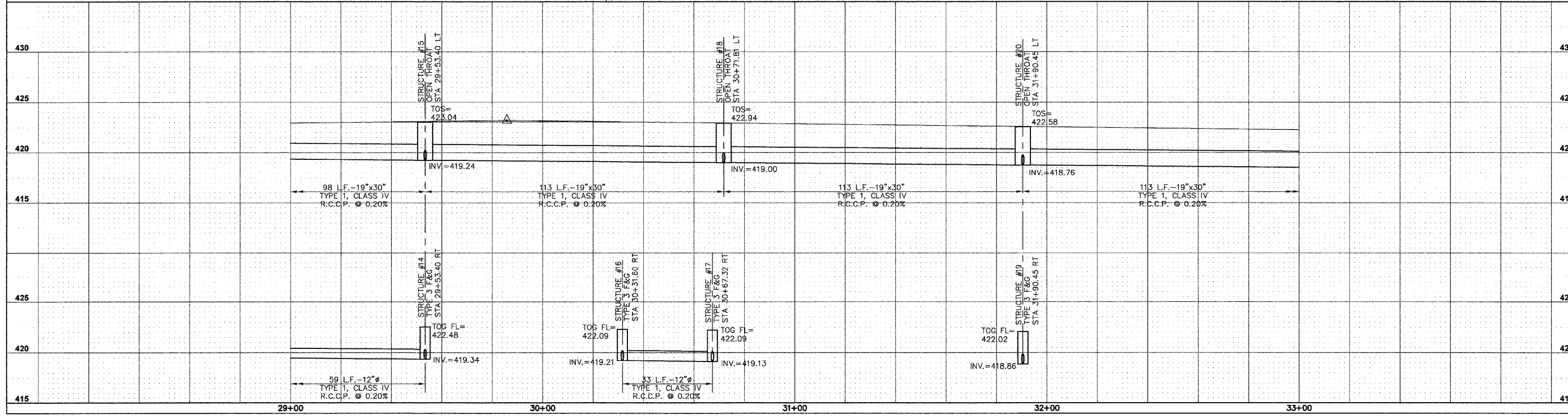
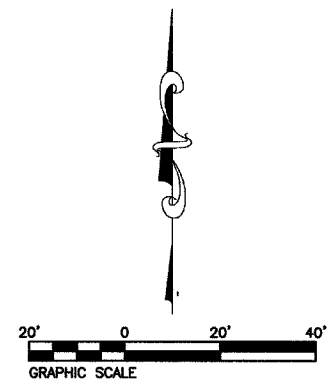
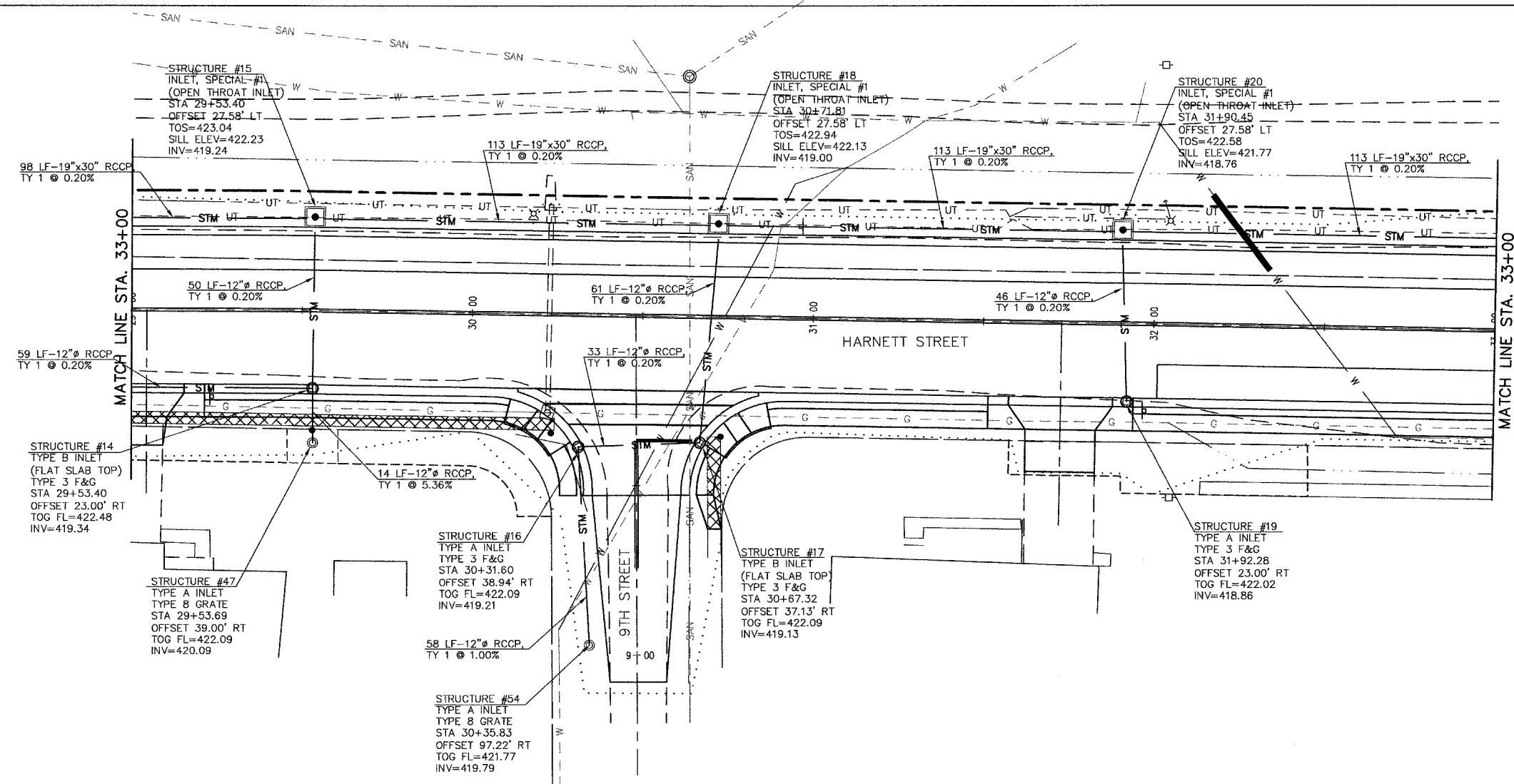
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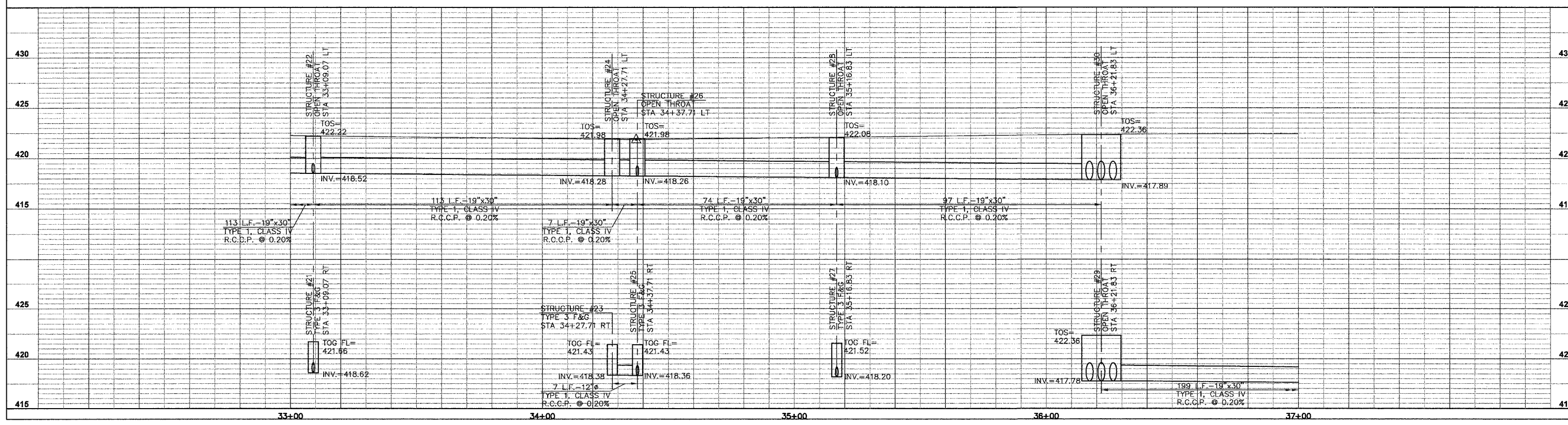
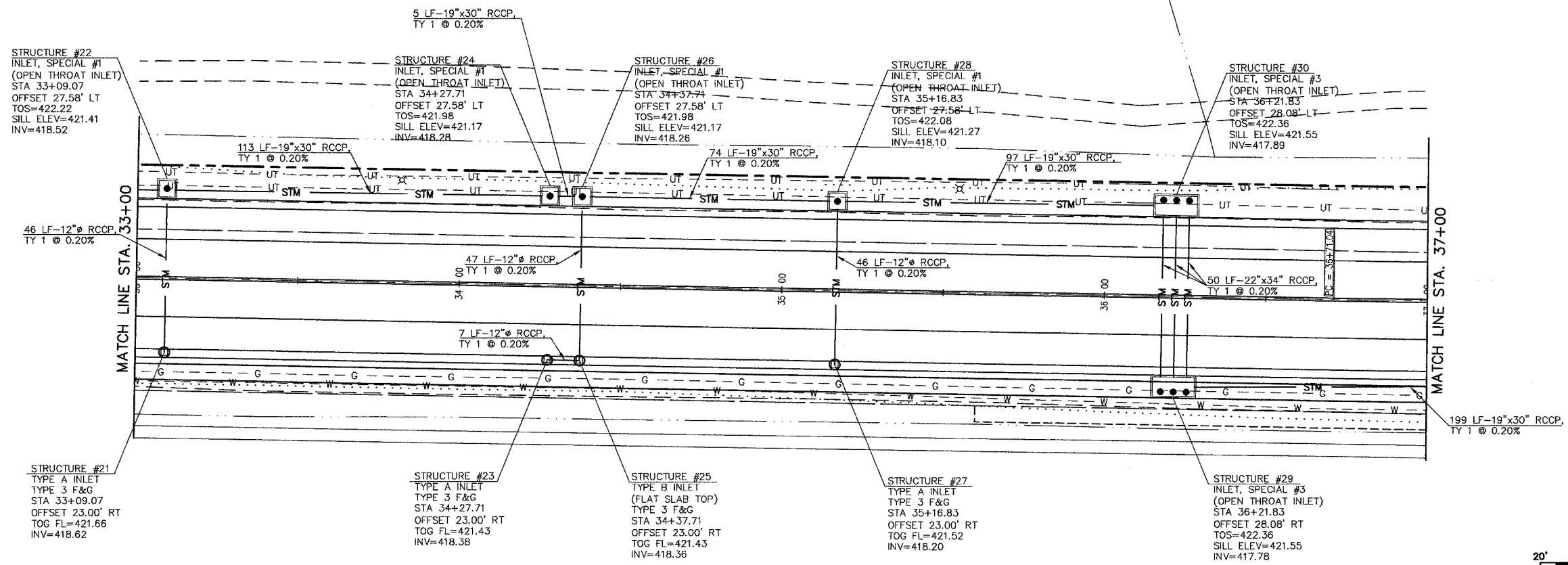
PAR. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9376	00-00017-00-RP	ST. CLAIR	33	25
STA. 29+00		TO STA. 33+00		
DRAINAGE PLAN AND PROFILE				

CONTRACT NO. 97242



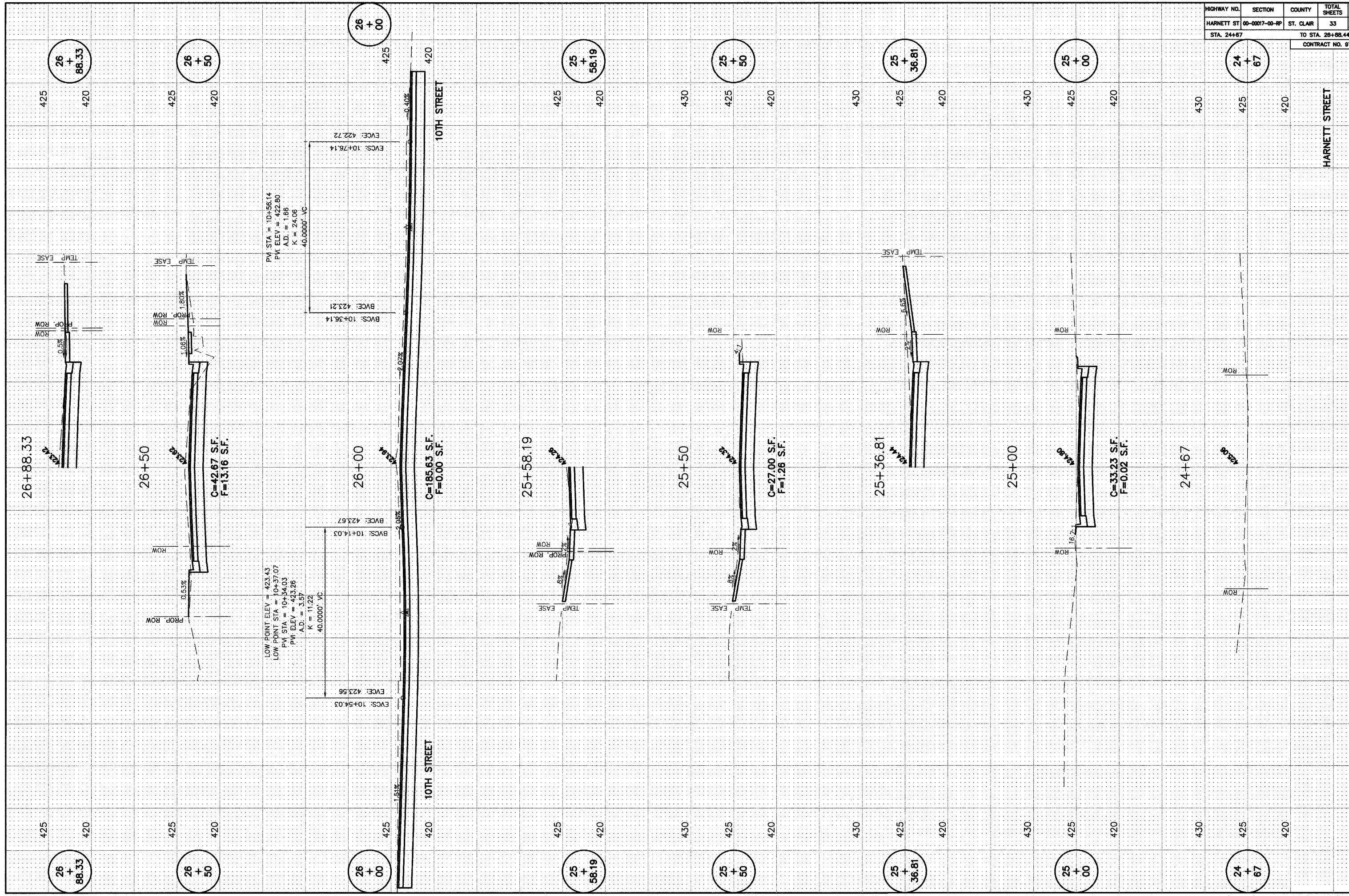
FA#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
9376	00-00017-00-RP	ST. CLAIR	33	26
STA. 33+00		TO STA. 37+00		
DRAINAGE PLAN AND PROFILE				

CONTRACT NO. 97242





HIGHWAY NO.	SECTION	COUNTY	TOTAL SHEETS
HARNETT ST	00-00017-00-RP	ST. CLAIR	33
STA. 24+67		TO STA. 26+88.44	CONTRACT NO. 972



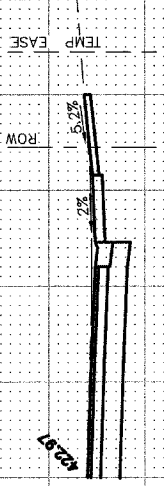


HIGHWAY NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HARNETT ST	00-0017-00-RP	ST. CLAIR	33	33
STA. 27+00		TO STA. 29+04.55		
CONTRACT NO. 9724				

HARNETT STREET

29 + 04.43

29+04.43



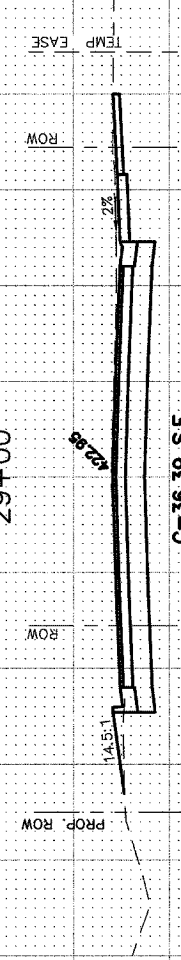
425

420

29 + 04.43

29 + 00

29+00



425

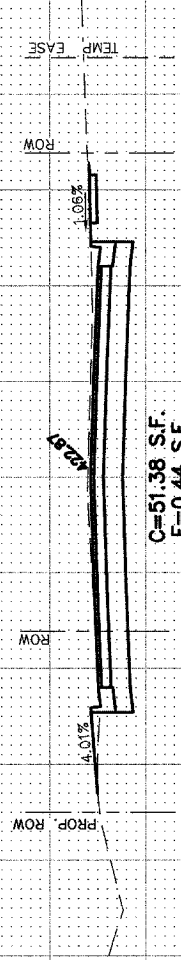
420

29 + 00

C=36.39 S.F.  
F=1.01 S.F.

28 + 50

28+50



425

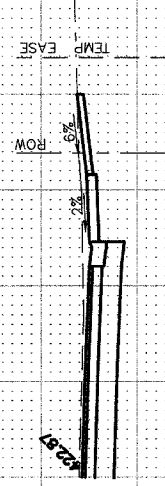
420

28 + 50

C=51.38 S.F.  
F=0.44 S.F.

28 + 42.00

28+42.00



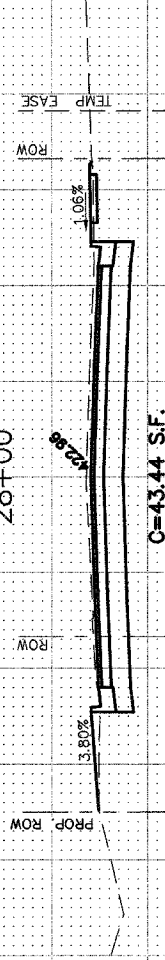
425

420

28 + 42.00

28 + 00

28+00



425

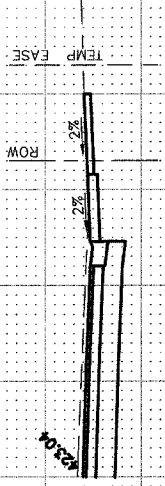
420

28 + 00

C=43.44 S.F.  
F=0.72 S.F.

27 + 79.36

27+79.36



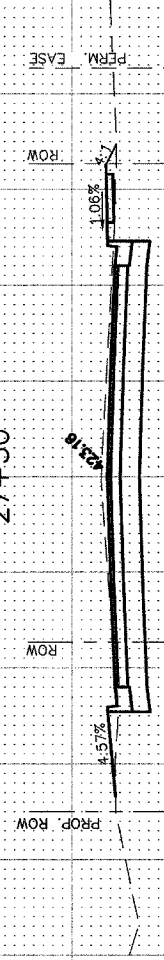
425

420

27 + 79.36

27 + 50

27+50



425

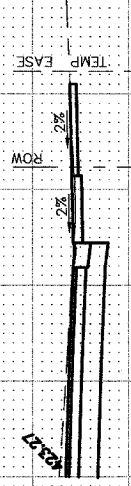
420

27 + 50

C=41.29 S.F.  
F=2.59 S.F.

27 + 20.33

27+20.33



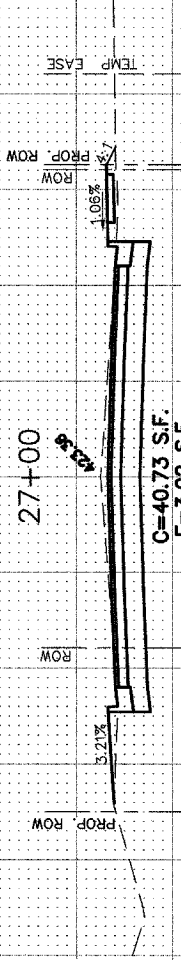
425

420

27 + 20.33

27 + 00

27+00



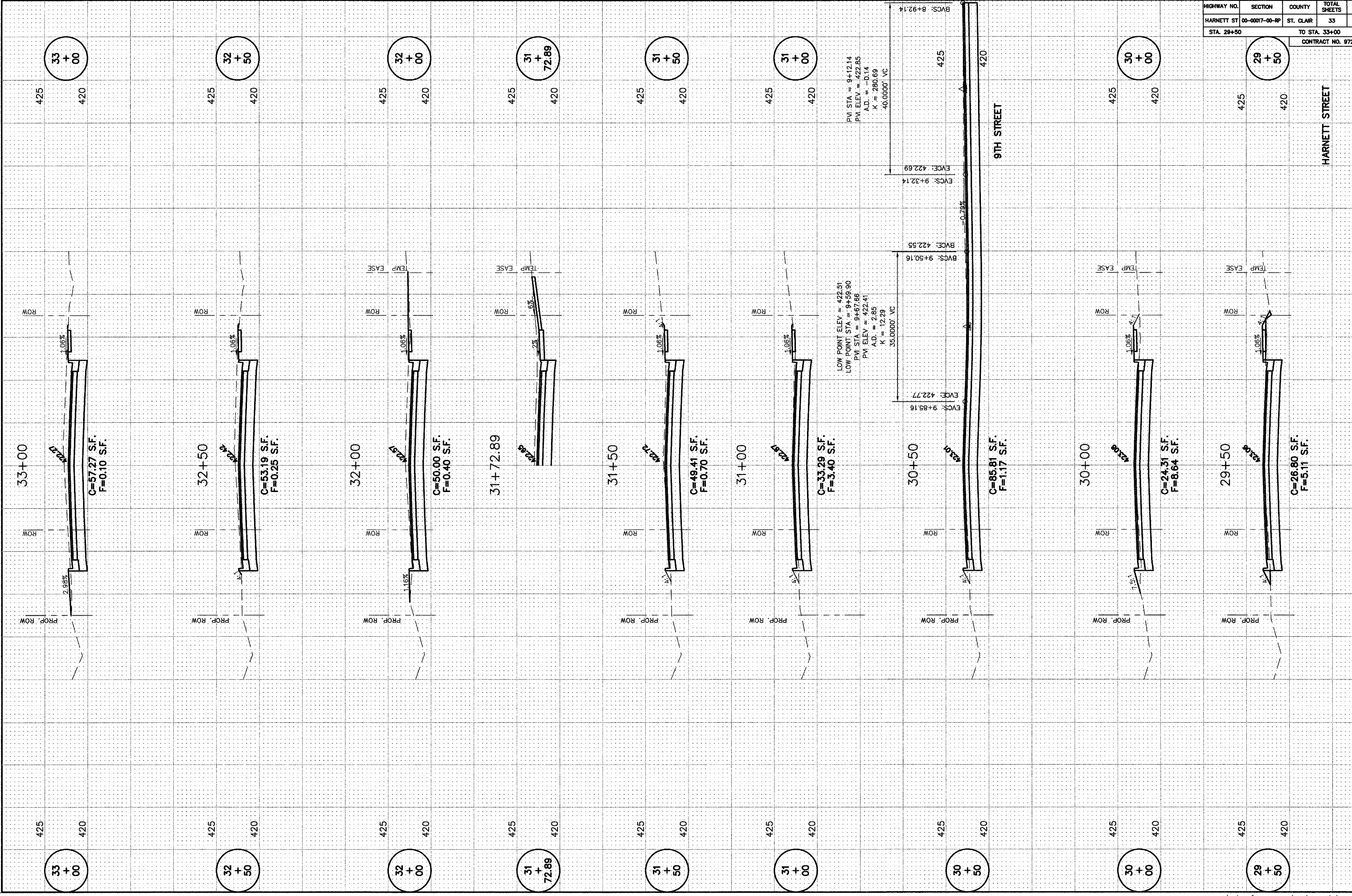
425

420

27 + 00

C=40.73 S.F.  
F=3.02 S.F.

HIGHWAY NO.	SECTION	COUNTY	TOTAL SHEETS
HARNETT ST	00-00017-00-RP	ST. CLAIR	33
STA. 29+50		TO STA. 33+00	
CONTRACT NO. 972			

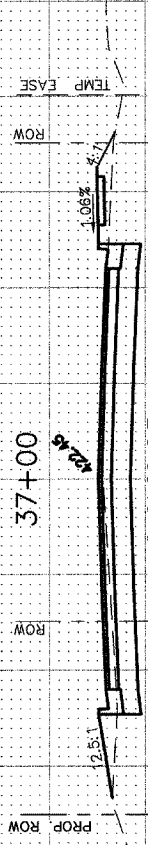


HARNETT STREET

9TH STREET

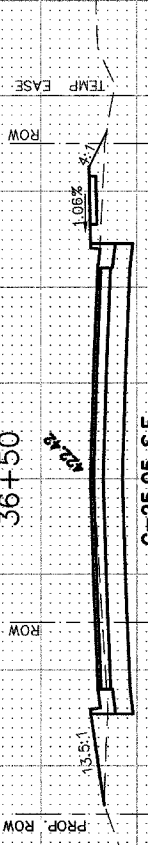
HARNETT STREET

425  
420  
37 + 00



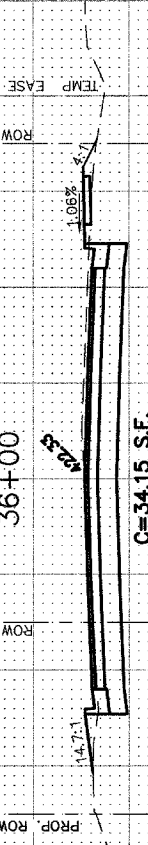
C=21.28 S.F.  
F=5.71 S.F.

425  
420  
36 + 50



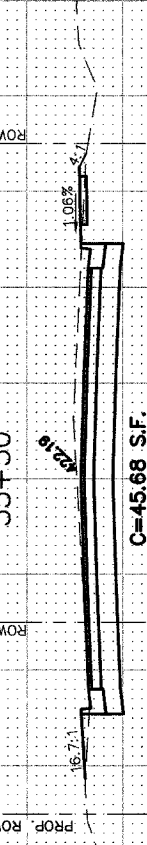
C=25.05 S.F.  
F=5.37 S.F.

425  
420  
36 + 00



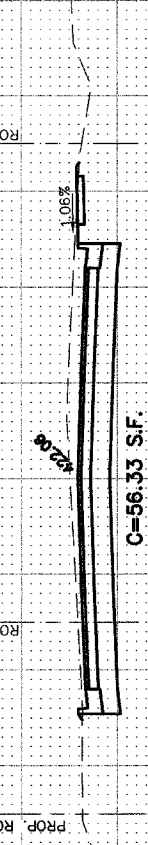
C=34.15 S.F.  
F=2.39 S.F.

425  
420  
35 + 50



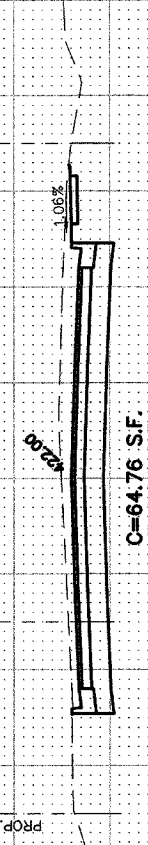
C=45.68 S.F.  
F=0.70 S.F.

425  
420  
35 + 00



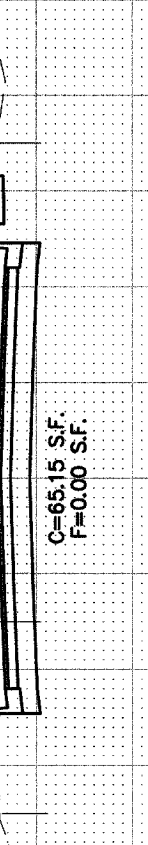
C=56.33 S.F.  
F=0.00 S.F.

425  
420  
34 + 50



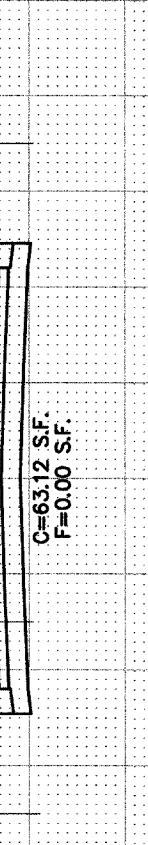
C=64.76 S.F.  
F=0.00 S.F.

425  
420  
415  
34 + 00



C=65.15 S.F.  
F=0.00 S.F.

425  
420  
415  
33 + 50



C=63.12 S.F.  
F=0.00 S.F.

425  
420  
37 + 00

425  
420  
36 + 50

425  
420  
36 + 00

425  
420  
35 + 50

425  
420  
35 + 00

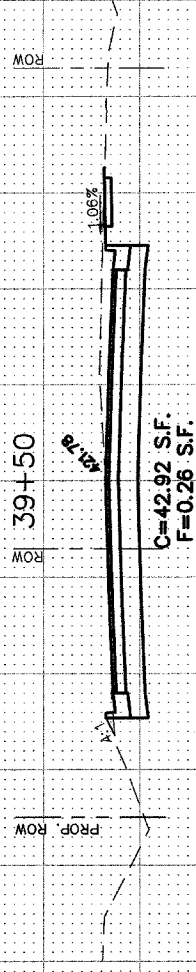
425  
420  
34 + 50

425  
420  
415  
34 + 00

425  
420  
415  
33 + 50

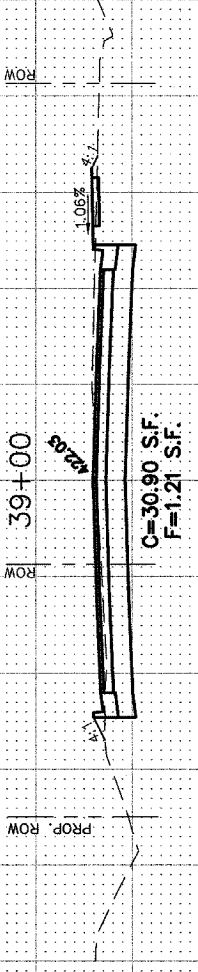
425  
420  
415

39 + 50



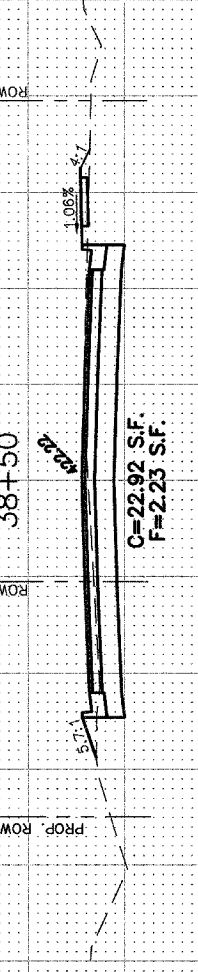
425  
420  
415

39 + 00



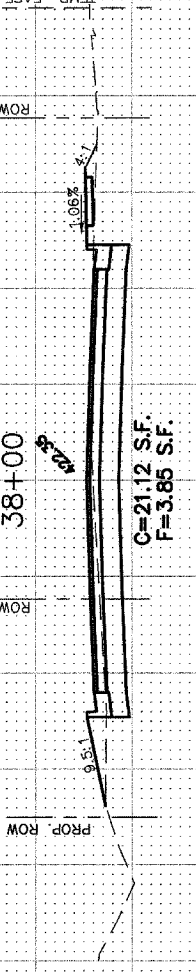
425  
420  
415

38 + 50



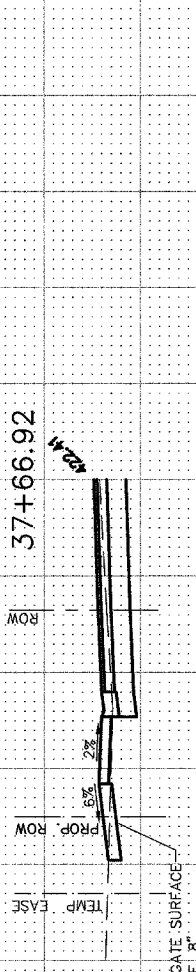
425  
420  
415

38 + 00



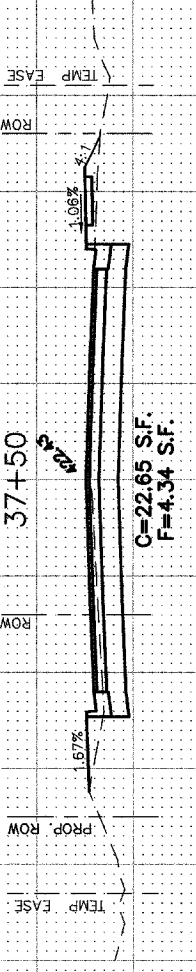
425  
420  
415

37 + 66.92



425  
420  
415

37 + 50



HARNETT STREET

425  
420  
415

39 + 50

425  
420  
415

39 + 00

425  
420  
415

38 + 50

425  
420  
415

38 + 00

425  
420  
415

37 + 66.92

425  
420  
415

37 + 50

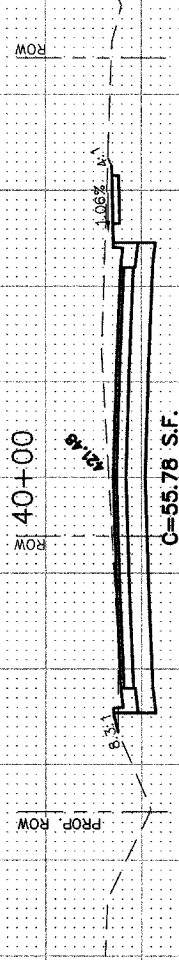


HIGHWAY NO.	SECTION	COUNTY	TOTAL SHEETS	SH
HARNETT ST	00-0017-00-RP	ST. CLAIR	33	
STA. 40+00			TO STA. 41+78.36	
CONTRACT NO. 9724				

HARNETT STREET

425  
420  
415

40 + 00

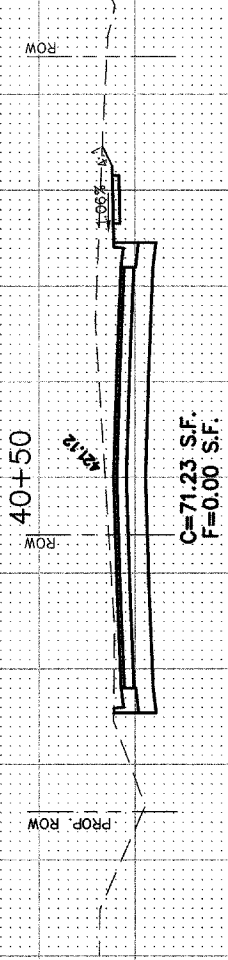


425  
420  
415

40 + 00

425  
420  
415

40 + 50

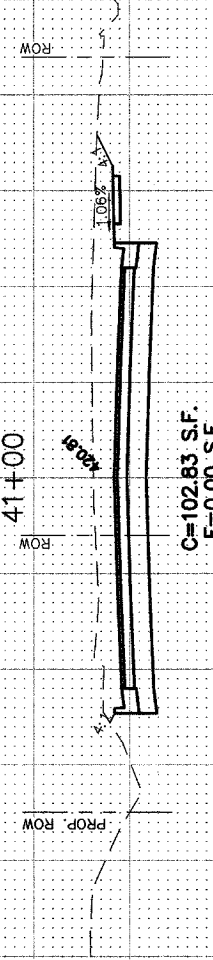


425  
420  
415

40 + 50

425  
420  
415

41 + 00

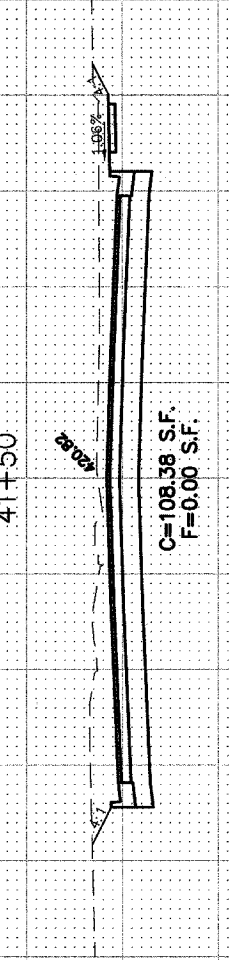


425  
420  
415

41 + 00

425  
420  
415

41 + 50

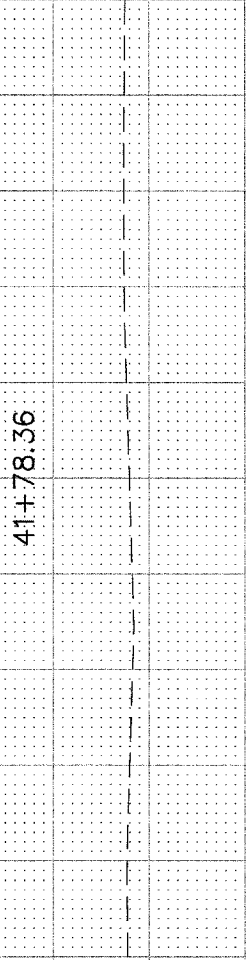


425  
420  
415

41 + 50

425  
420  
415

41 + 78.36



425  
420  
415

41 + 78.36