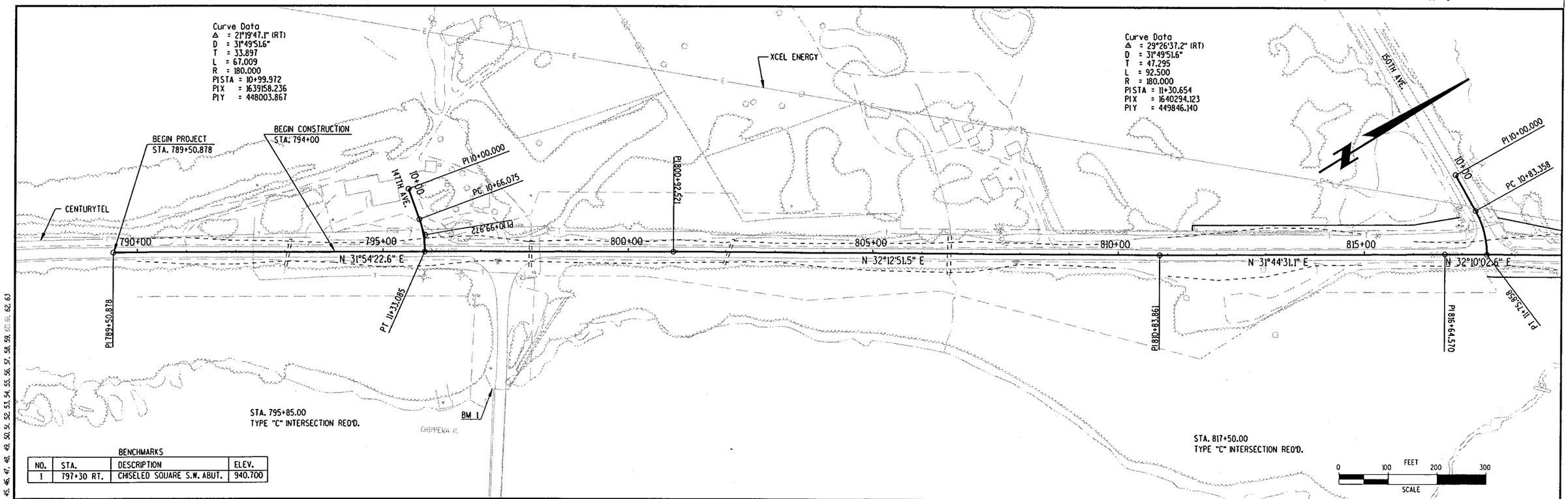
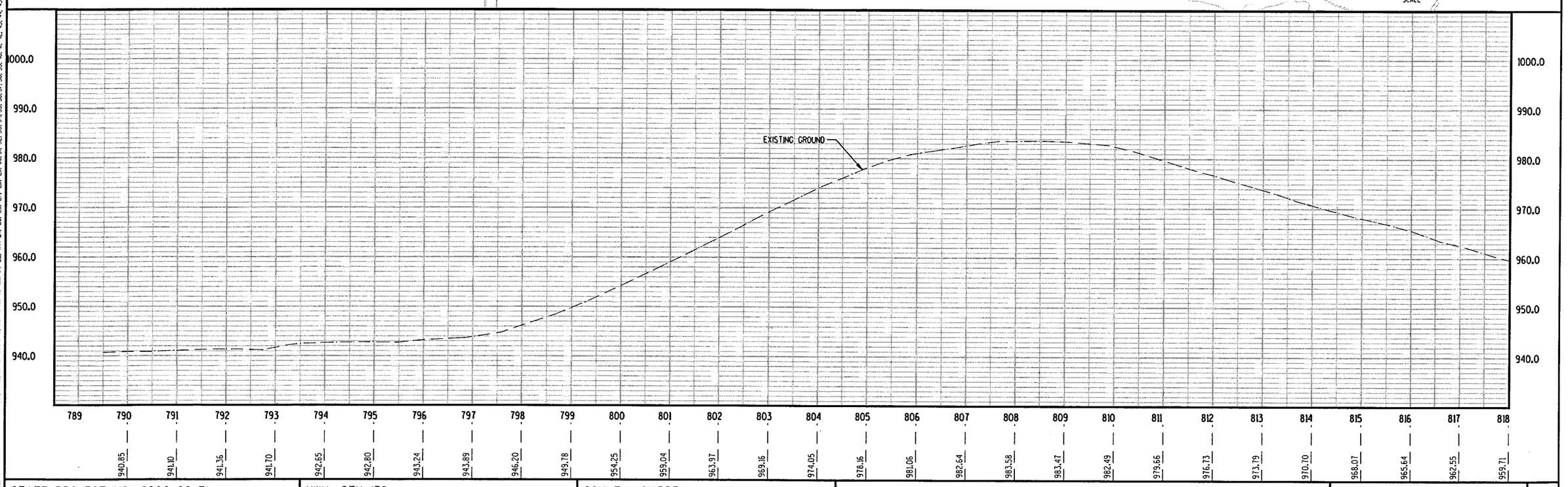
Curve Data
Δ = 21°19'47.1" (RT)
D = 31°49'51.6"
T = 33.897
L = 67.009
R = 180.000
PISTA = 10+99.972
PIX = 1639158.236
PIY = 448003.867

Curve Data
Δ = 29°26'37.2" (RT)
D = 31°49'51.6"
T = 47.295
L = 92.500
R = 180.000
PISTA = 11+30.654
PIX = 1640294.123
PIY = 449846.140

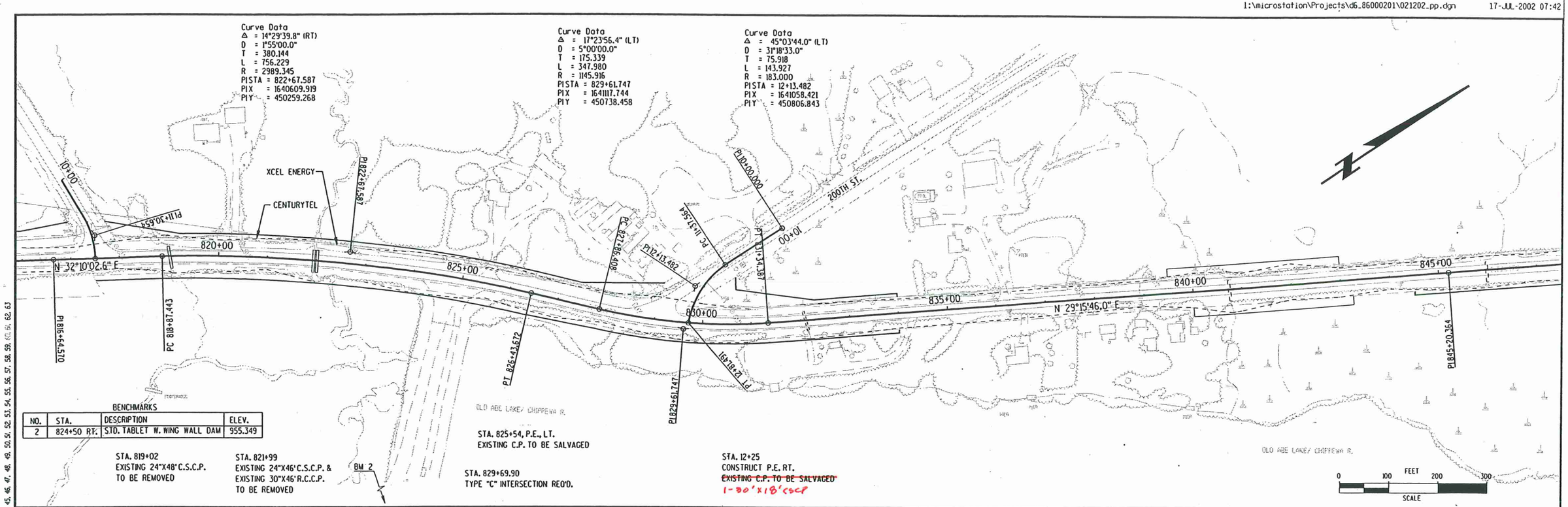


BENCHMARKS

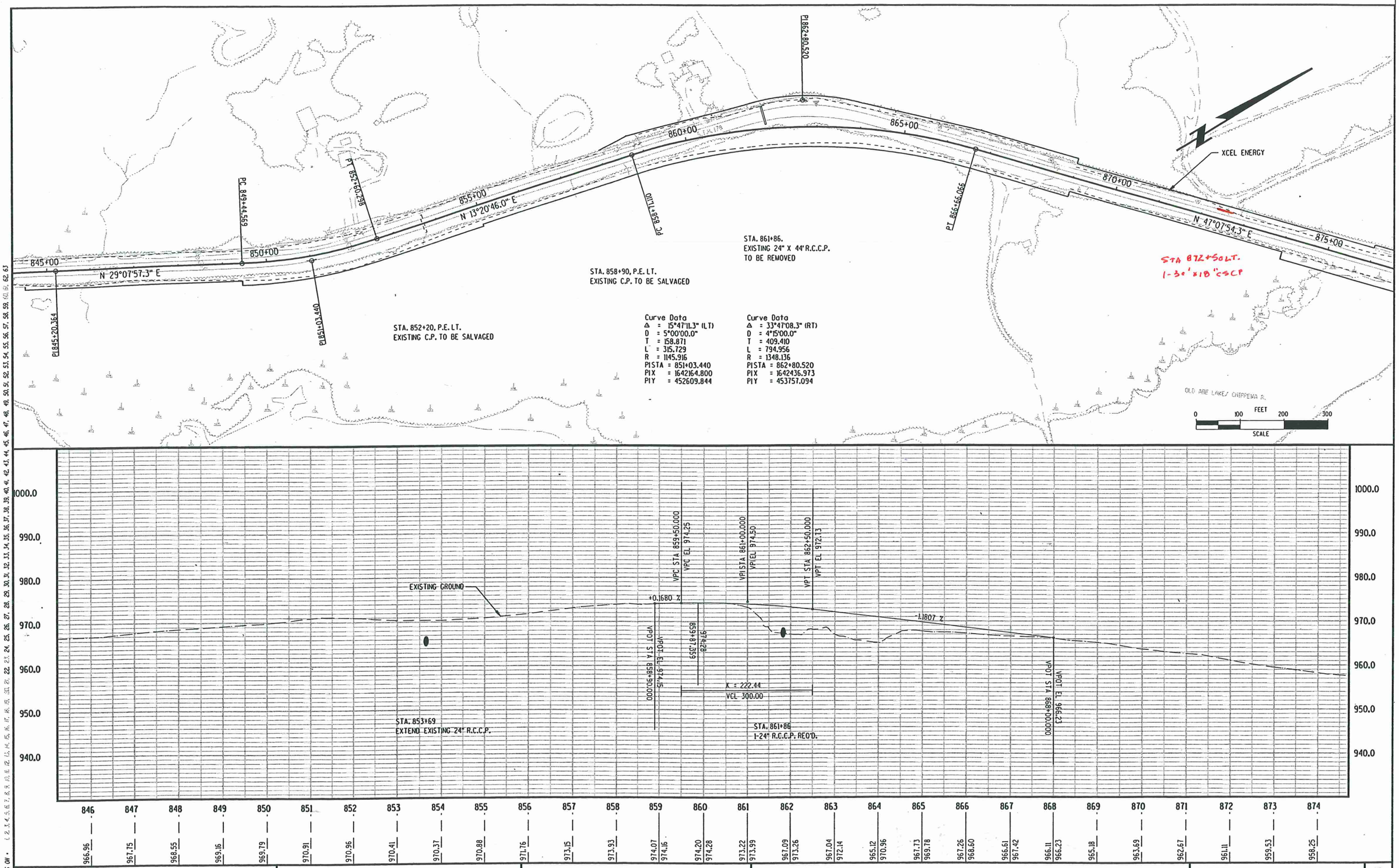
NO.	STA.	DESCRIPTION	ELEV.
1	797+30 RT.	CHISELED SQUARE S.W. ABUT.	940.700



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: . 84	E



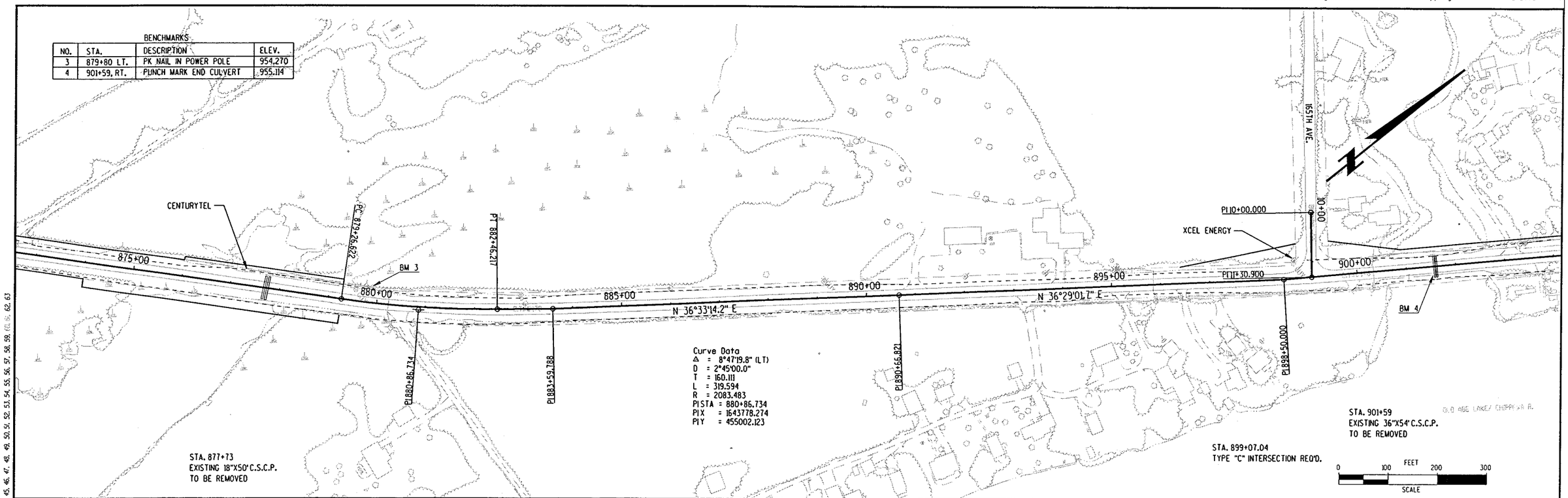
STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: . 85	E

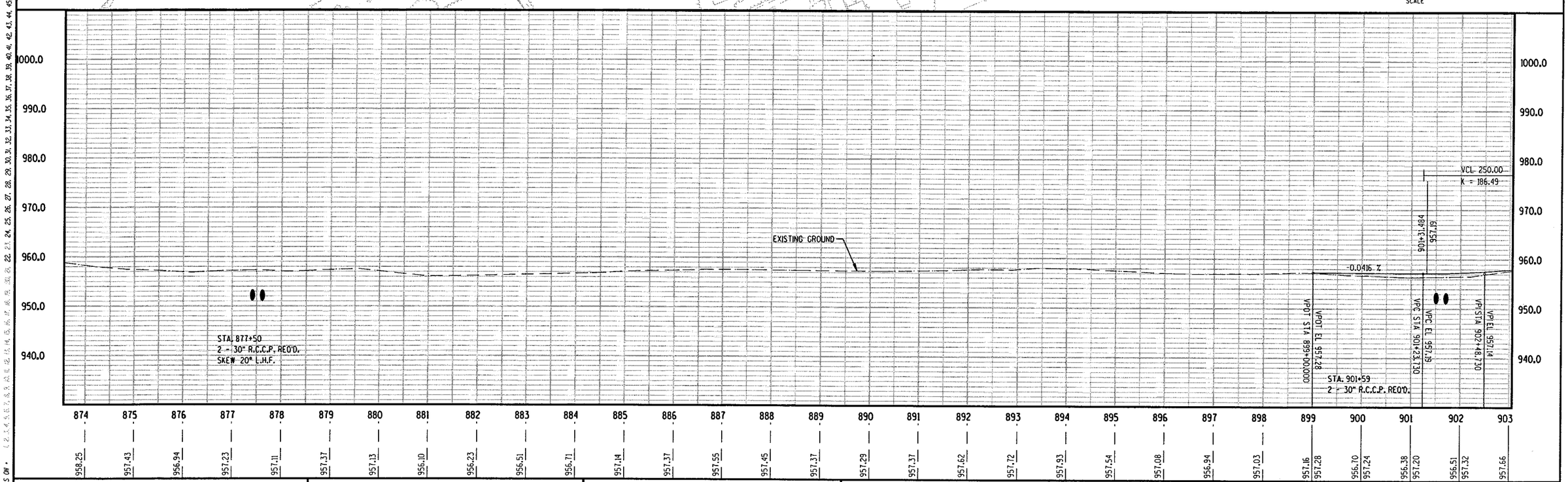


STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: . 86	E

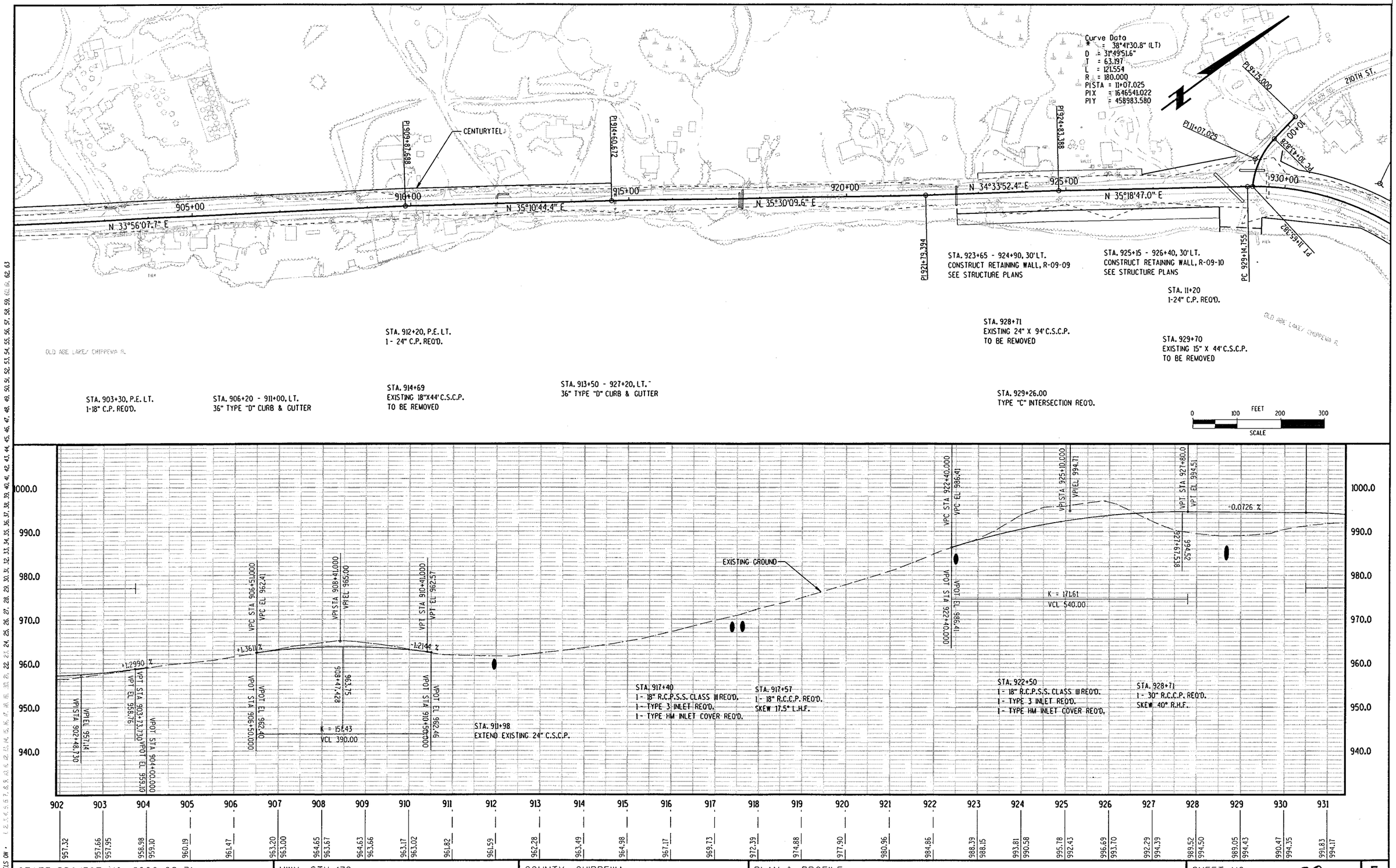
BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
3	879+80 LT.	PK NAIL IN POWER POLE	954.270
4	901+59, RT.	PUNCH MARK END CULVERT	955.114

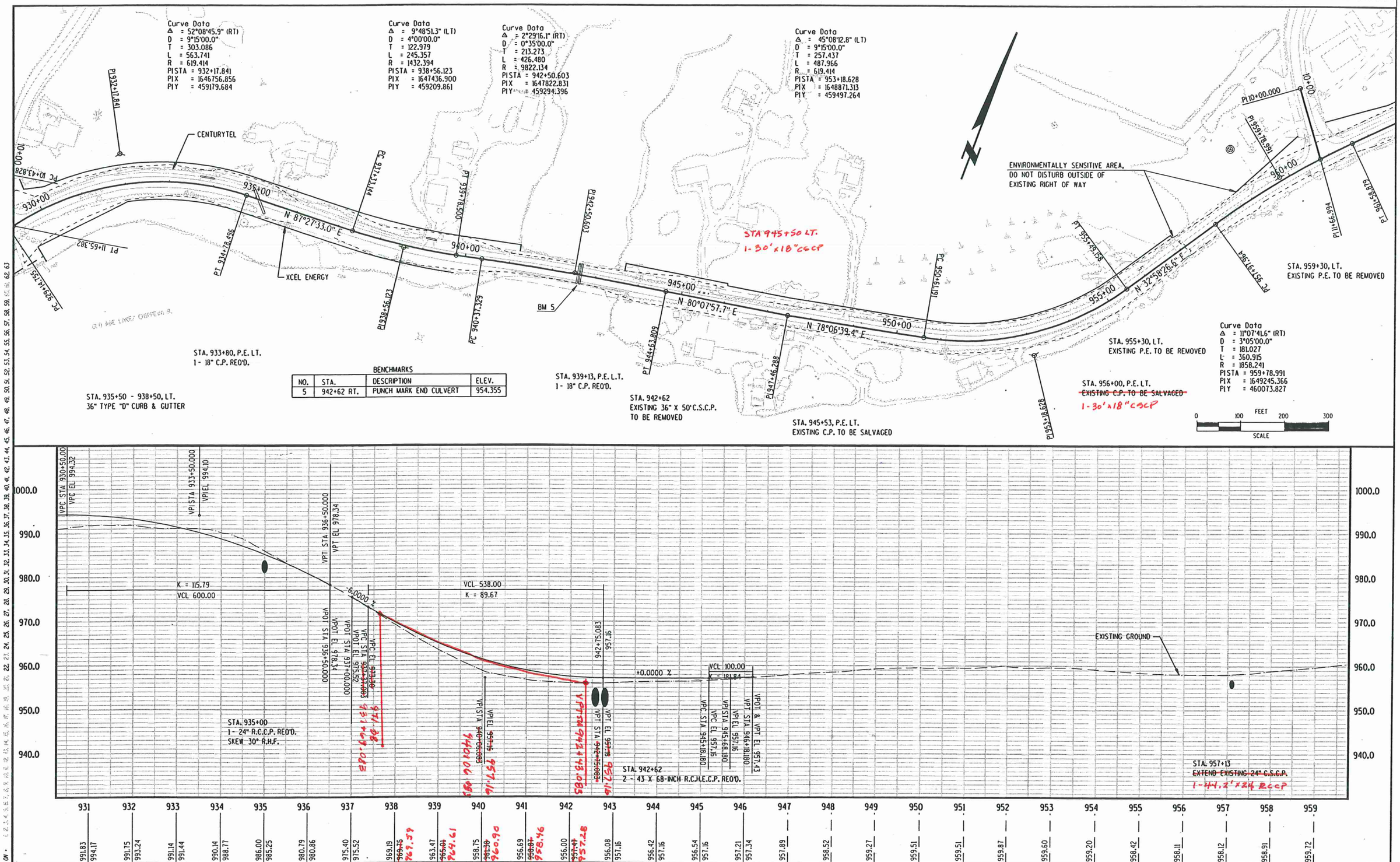




STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: . 87	E



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: . 88	E



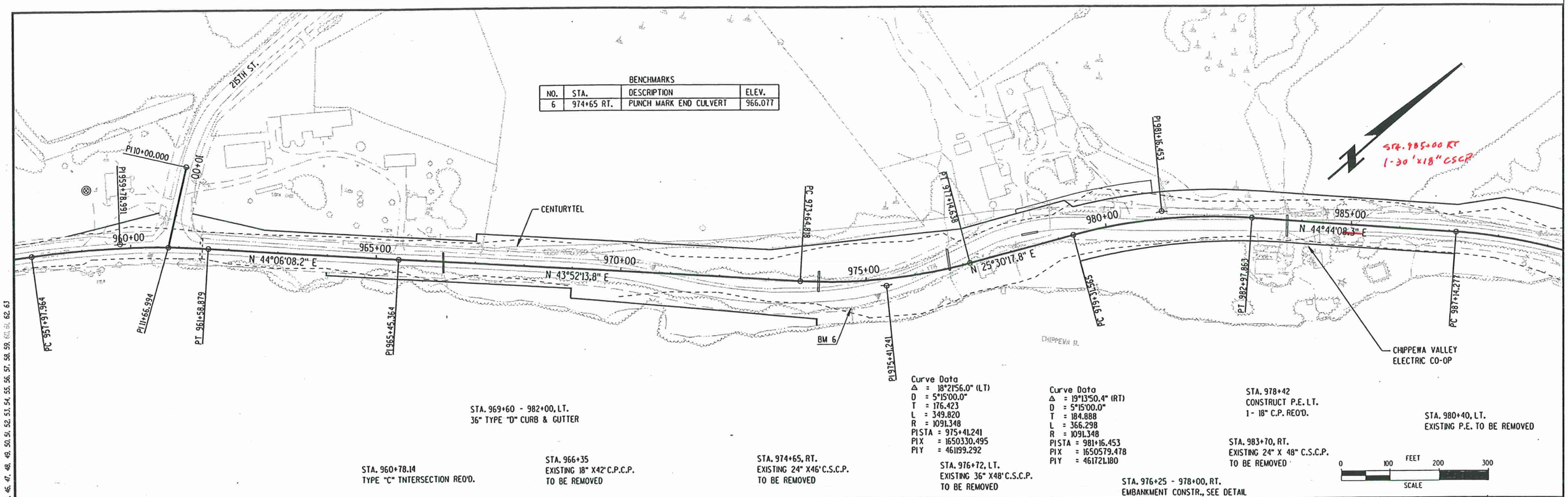
BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
5	942+62 RT.	PUNCH MARK END CULVERT	954.355

STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 09	E

BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
6	974+65 RT.	PUNCH MARK END CULVERT	966.077



STA. 969+60 - 982+00, LT.
36" TYPE "D" CURB & GUTTER

Curve Data
Δ = 18°21'56.0" (LT)
D = 5°15'00.0"
T = 176.423
L = 349.820
R = 1091.348
PISTA = 975+41.241
PIX = 1650330.495
PIY = 461199.292

Curve Data
Δ = 19°13'50.4" (RT)
D = 5°15'00.0"
T = 184.888
L = 366.298
R = 1091.348
PISTA = 981+16.453
PIX = 1650579.478
PIY = 461721.180

STA. 978+42
CONSTRUCT P.E. LT.
1- 18" C.P. REQ'D.

STA. 980+40, LT.
EXISTING P.E. TO BE REMOVED

STA. 960+78.14
TYPE "C" INTERSECTION REQ'D.

STA. 966+35
EXISTING 18" X42' C.P.C.P.
TO BE REMOVED

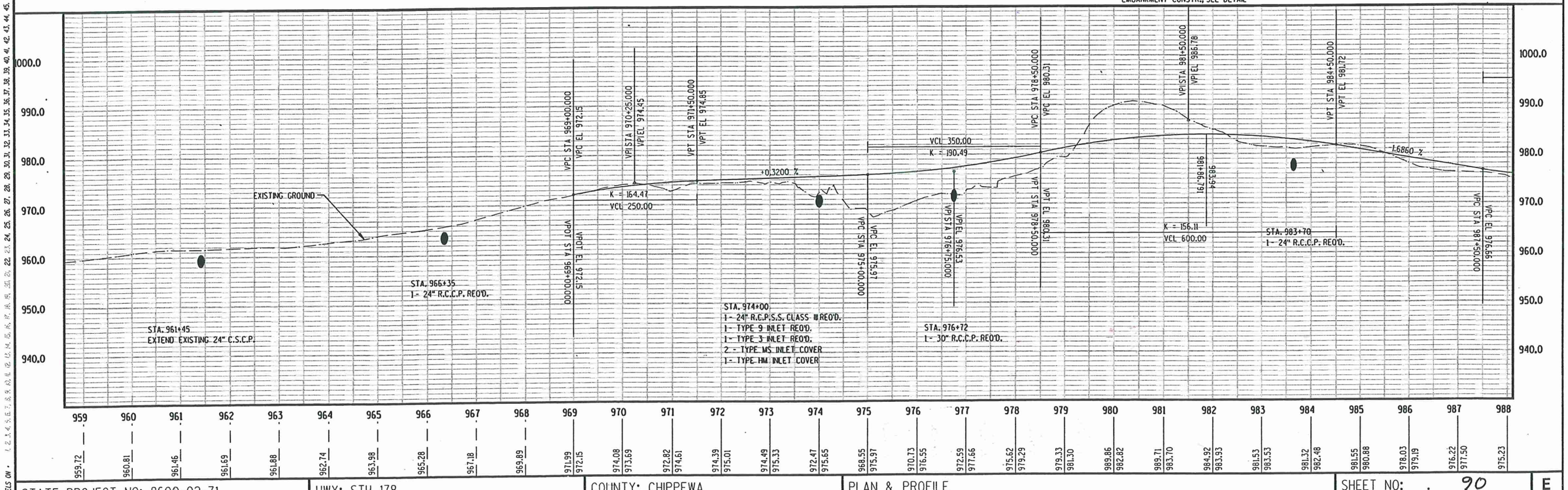
STA. 974+65, RT.
EXISTING 24" X46' C.S.C.P.
TO BE REMOVED

STA. 976+72, LT.
EXISTING 36" X48' C.S.C.P.
TO BE REMOVED

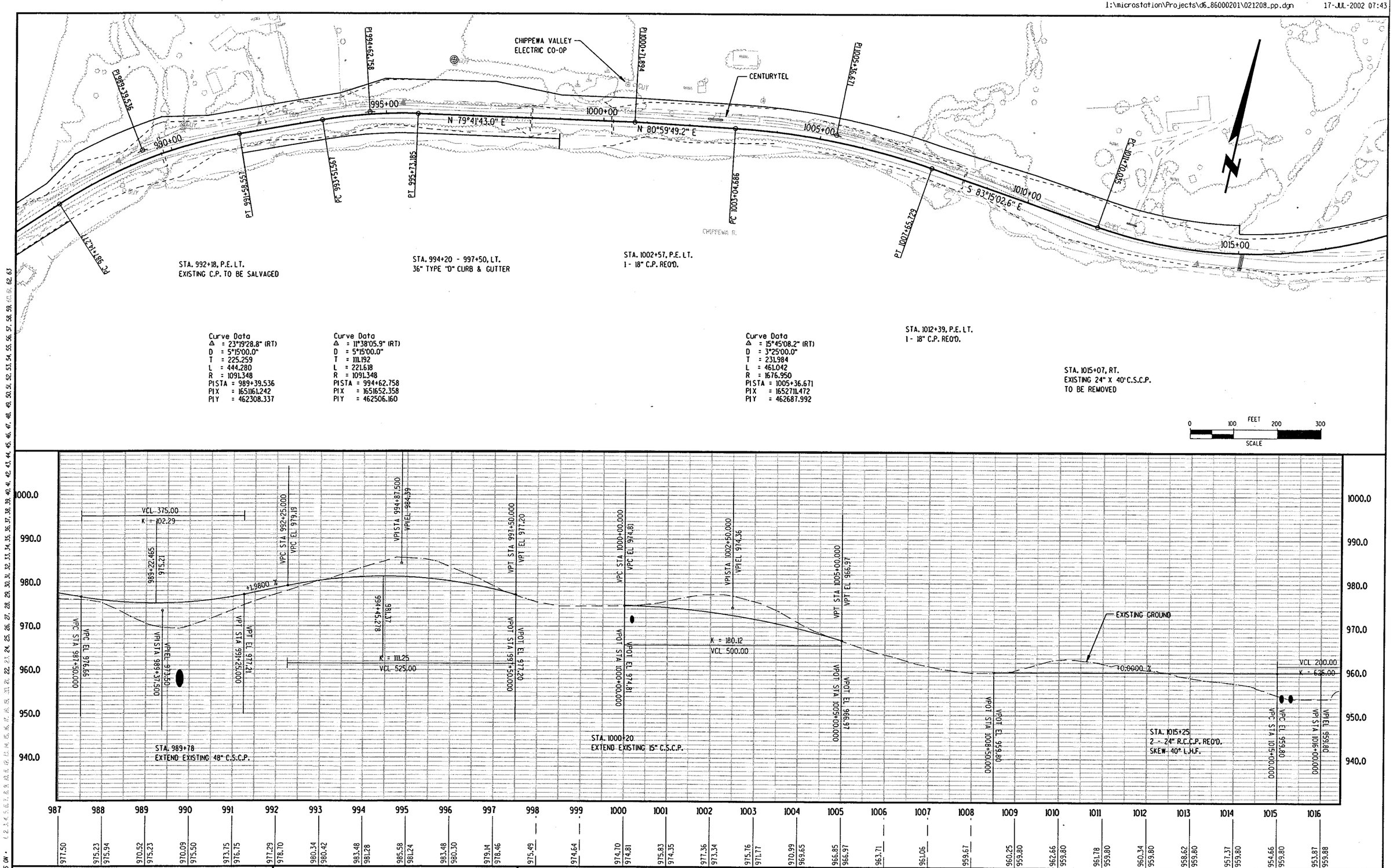
STA. 976+25 - 978+00, RT.
EMBANKMENT CONSTR., SEE DETAIL

STA. 983+70, RT.
EXISTING 24" X 48" C.S.C.P.
TO BE REMOVED

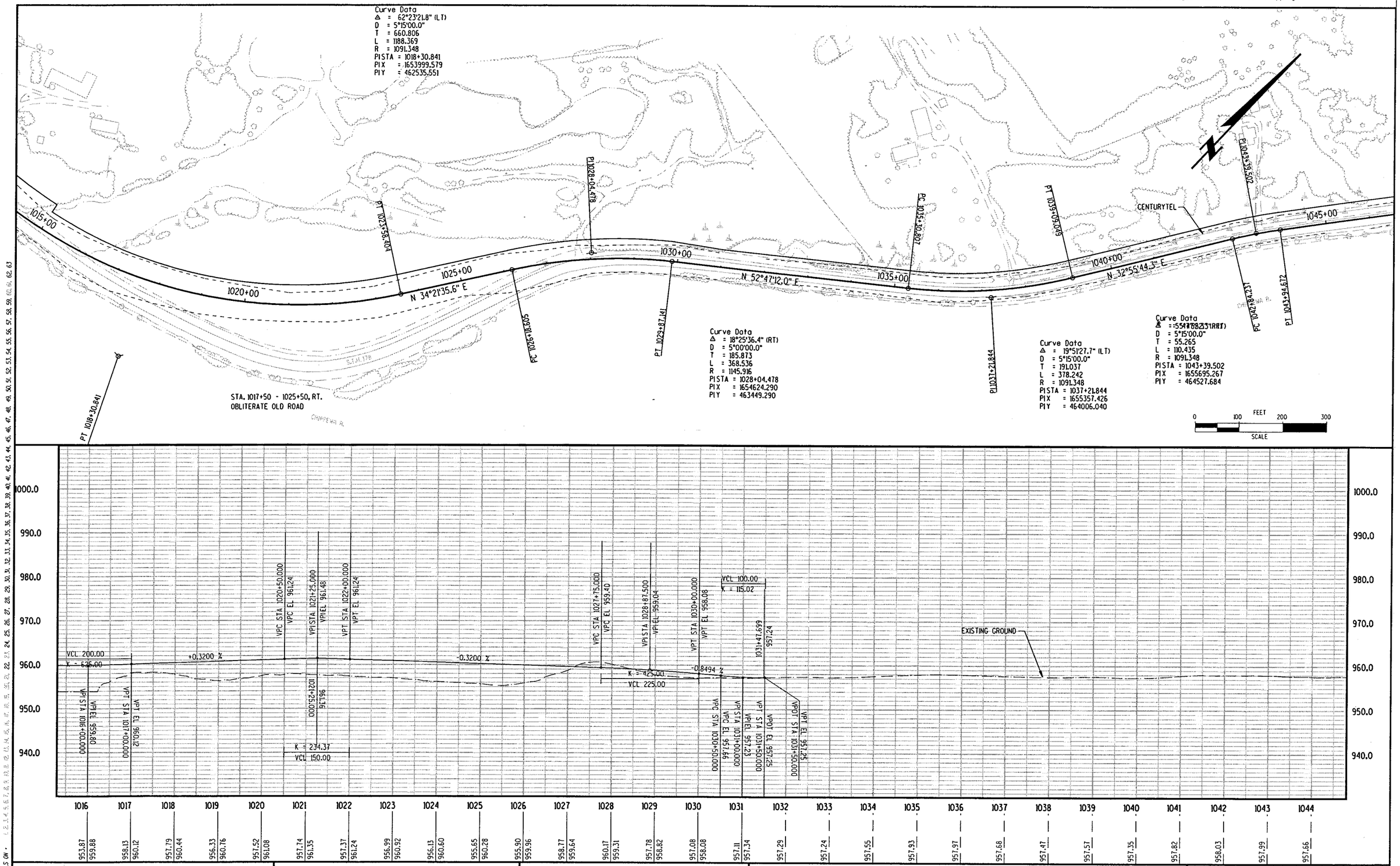
0 100 200 300 FEET
SCALE



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 90	E



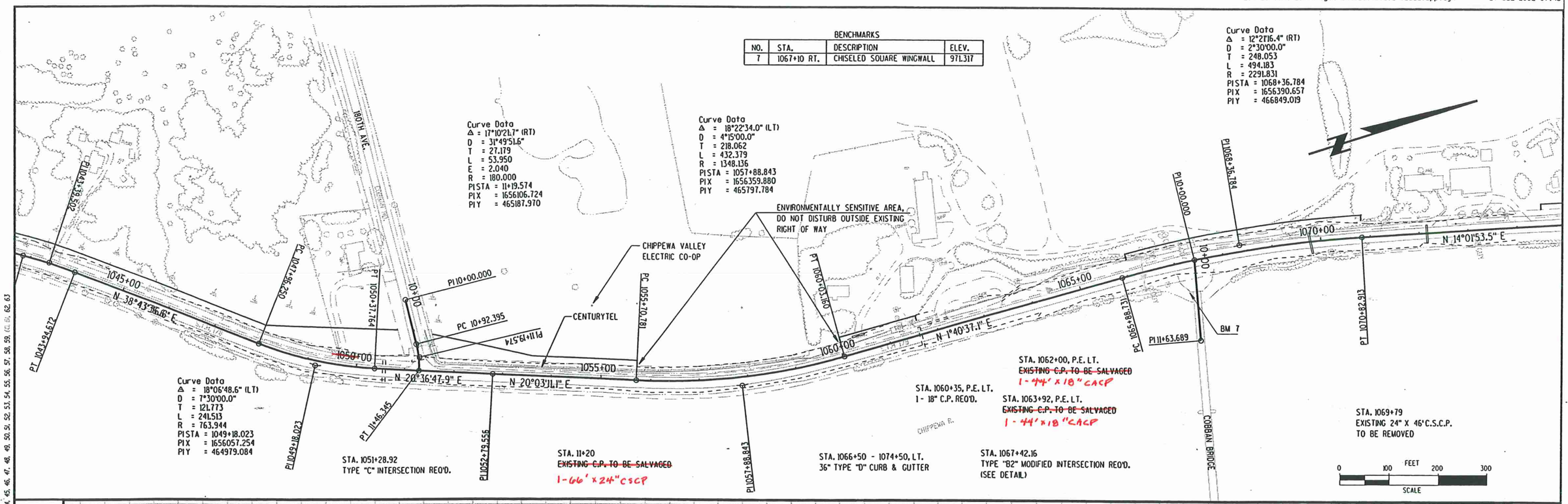
STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 71	E

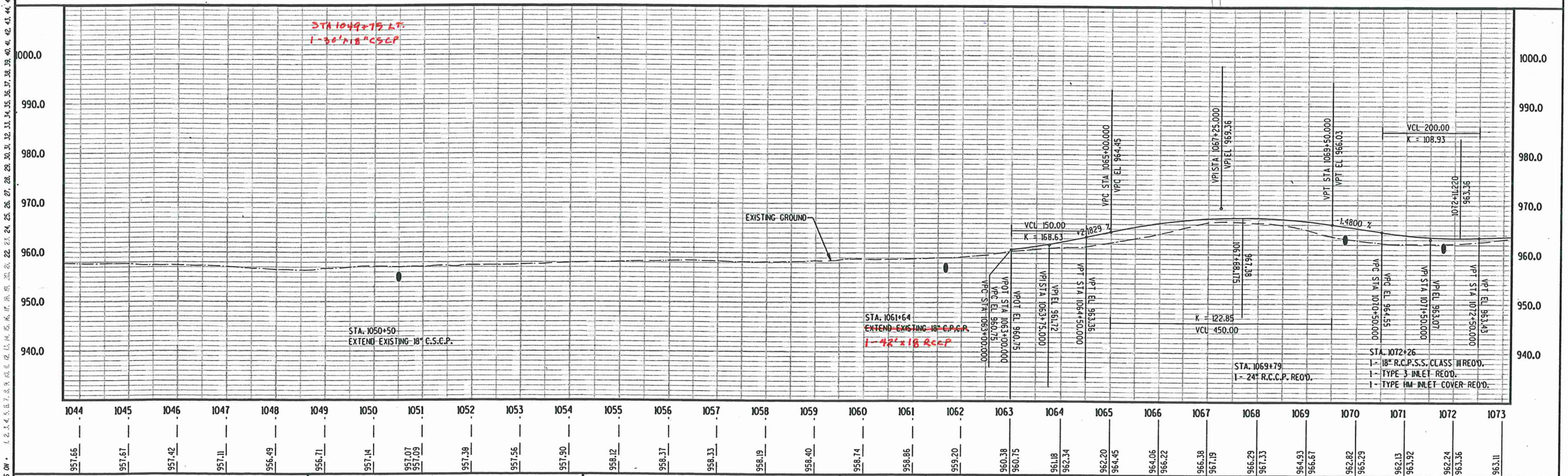


STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 92	E

BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
7	1067+10 RT.	CHISELED SQUARE WINGWALL	971.317



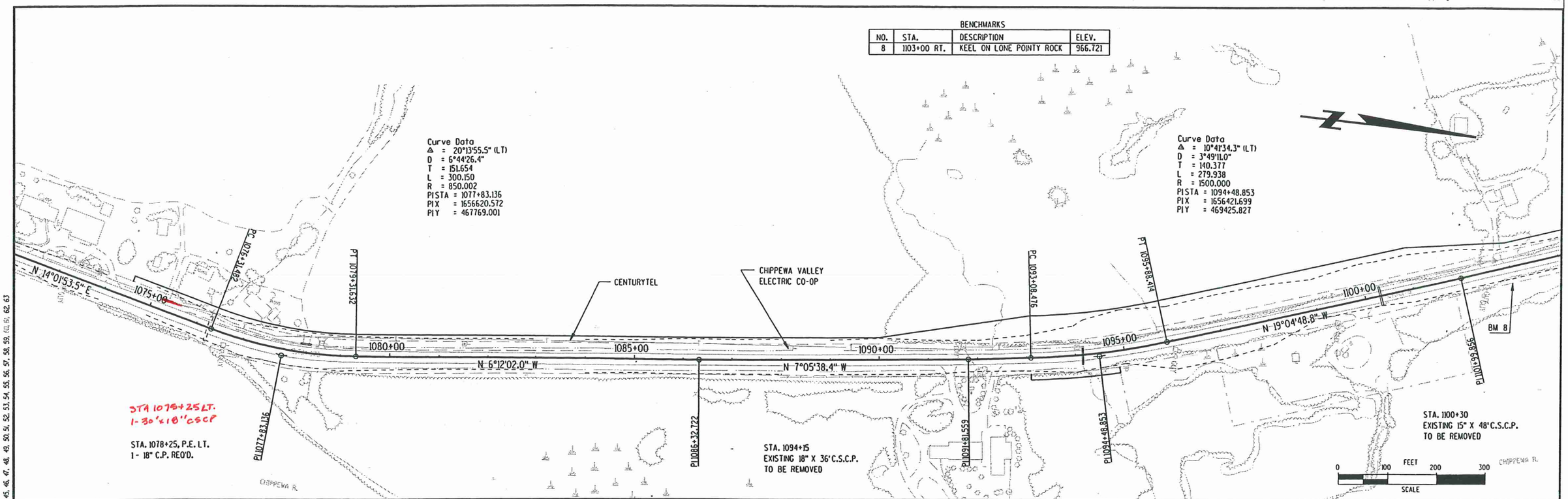


LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 93	E

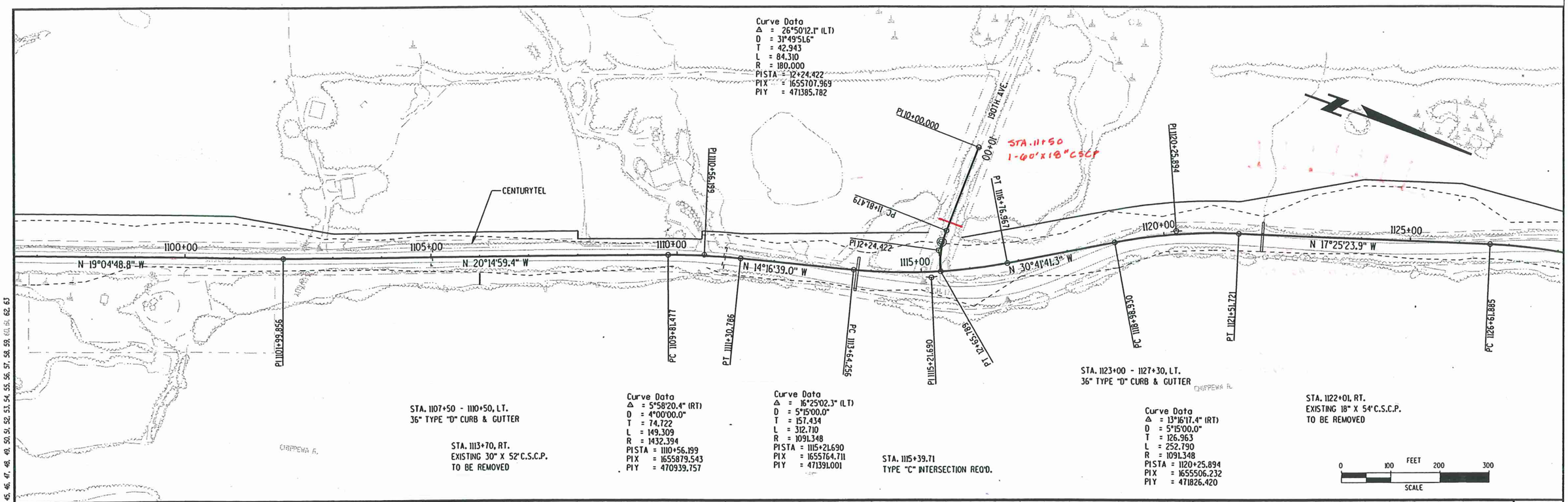
BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
8	1103+00 RT.	KEEL ON LONE POINTY ROCK	966.721



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 94	E

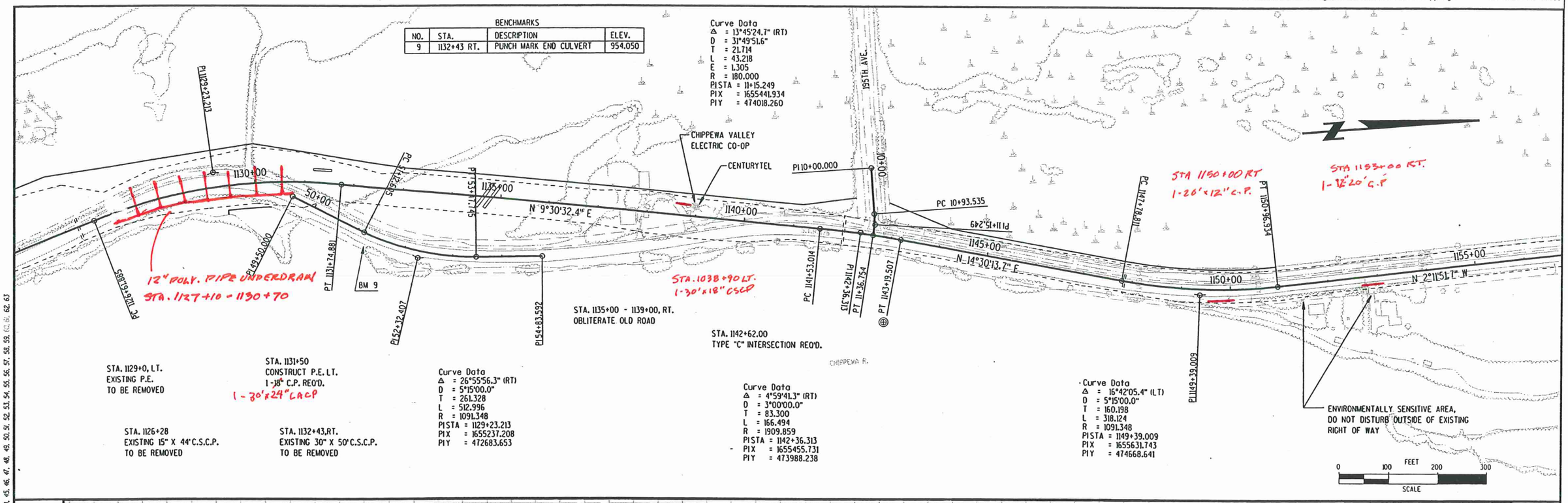
LEVELS ON • 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 95	E

BENCHMARKS			
NO.	STA.	DESCRIPTION	ELEV.
9	1132+43 RT.	PUNCH MARK END CULVERT	954.050

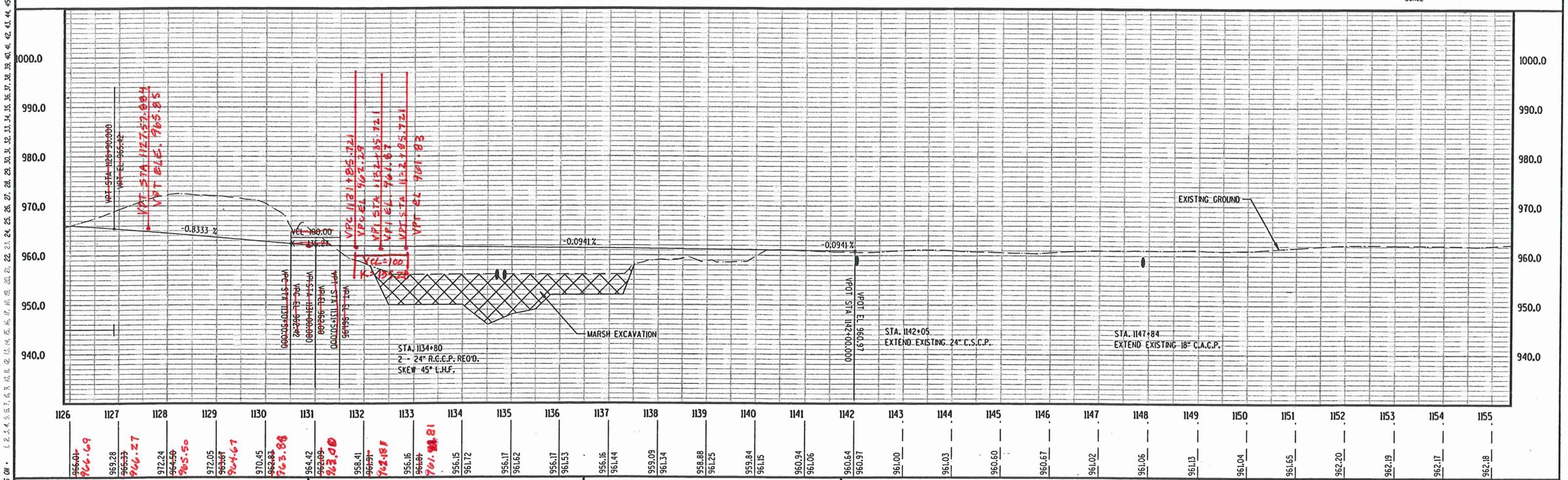
Curve Data
Δ = 13°45'24.7" (RT)
D = 31°49'51.6"
T = 21.714
L = 43.218
E = 1.305
R = 180.000
PISTA = 11+15.249
PIX = 1655441.934
PIY = 474018.260



Curve Data
Δ = 26°55'56.3" (RT)
D = 5°15'00.0"
T = 261.328
L = 512.996
R = 1091.348
PISTA = 1129+23.213
PIX = 1655237.208
PIY = 472683.653

Curve Data
Δ = 4°59'41.3" (RT)
D = 3°00'00.0"
T = 83.300
L = 166.494
R = 1909.859
PISTA = 1142+36.313
PIX = 1655455.731
PIY = 473988.238

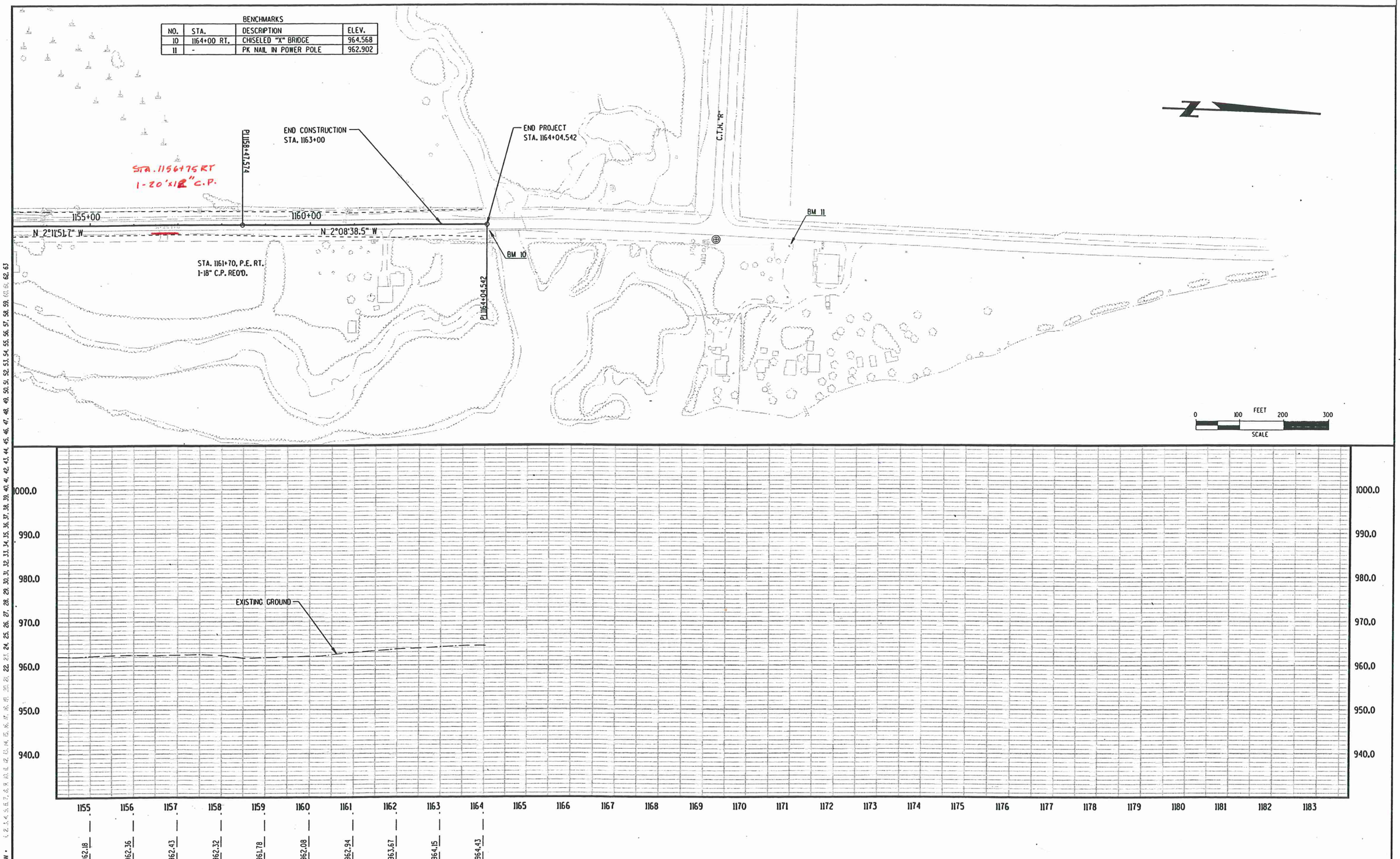
Curve Data
Δ = 16°42'05.4" (LT)
D = 5°15'00.0"
T = 160.198
L = 318.124
R = 1091.348
PISTA = 1149+39.009
PIX = 1655631.743
PIY = 474668.641



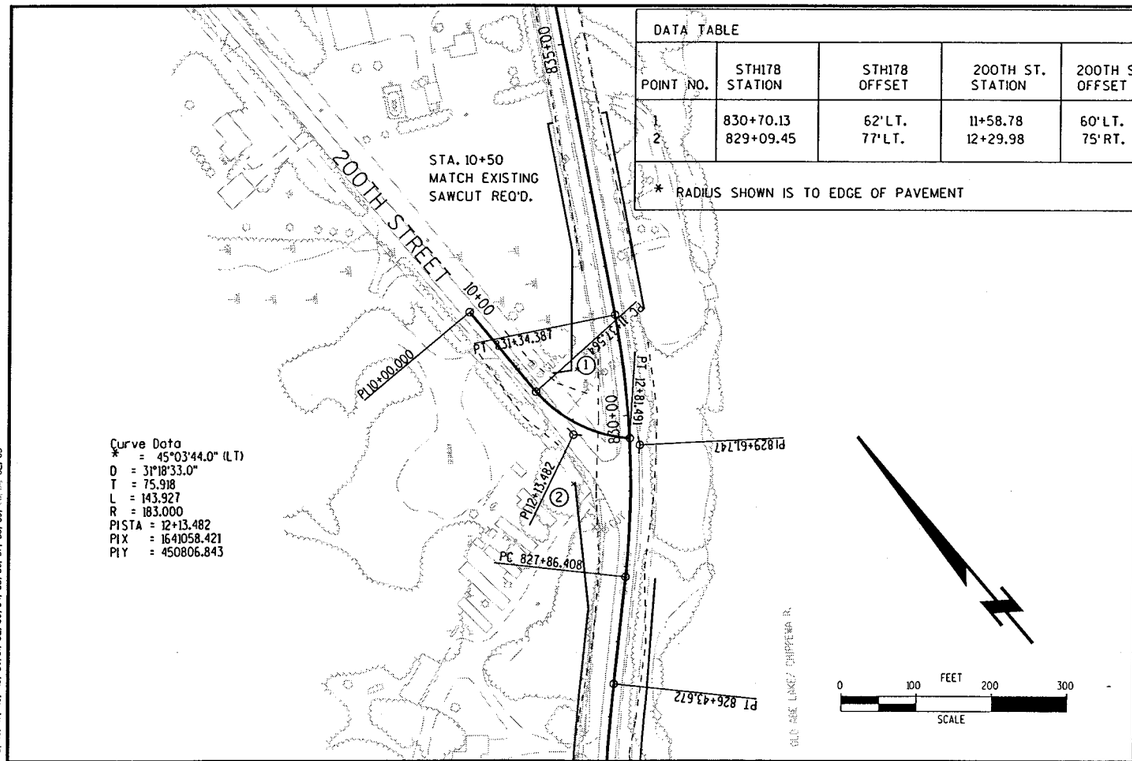
STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 96	E

BENCHMARKS

NO.	STA.	DESCRIPTION	ELEV.
10	1164+00 RT.	CHISELED "X" BRIDGE	964.568
11	-	PK NAIL IN POWER POLE	962.902



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE	SHEET NO: 77	E

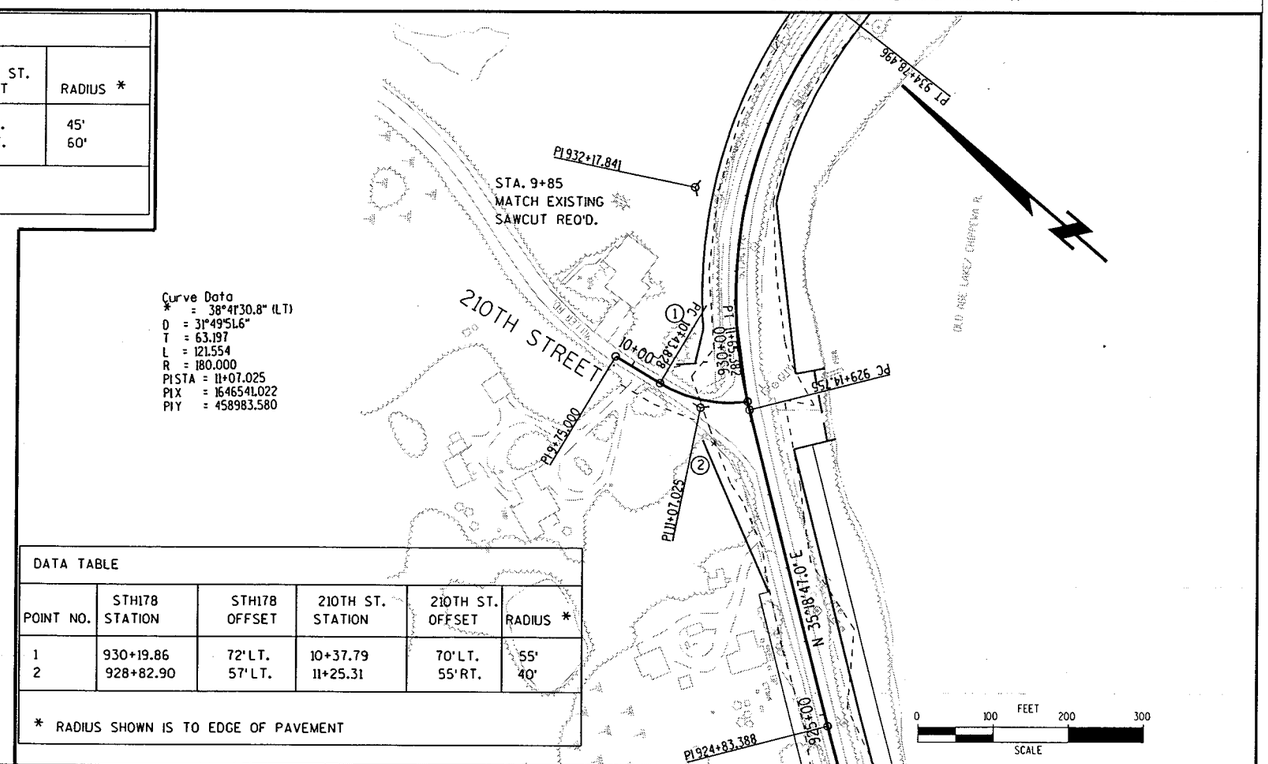


Curve Data
* = 45°03'44.0" (LT)
D = 31°18'33.0"
T = 75.918
L = 143.927
R = 183.000
PISTA = 12+13.482
PIX = 1641058.421
PIY = 450806.843

DATA TABLE

POINT NO.	STH178 STATION	STH178 OFFSET	200TH ST. STATION	200TH ST. OFFSET	RADIUS *
1	830+70.13	62'LT.	11+58.78	60'LT.	45'
2	829+09.45	77'LT.	12+29.98	75'RT.	60'

* RADIUS SHOWN IS TO EDGE OF PAVEMENT

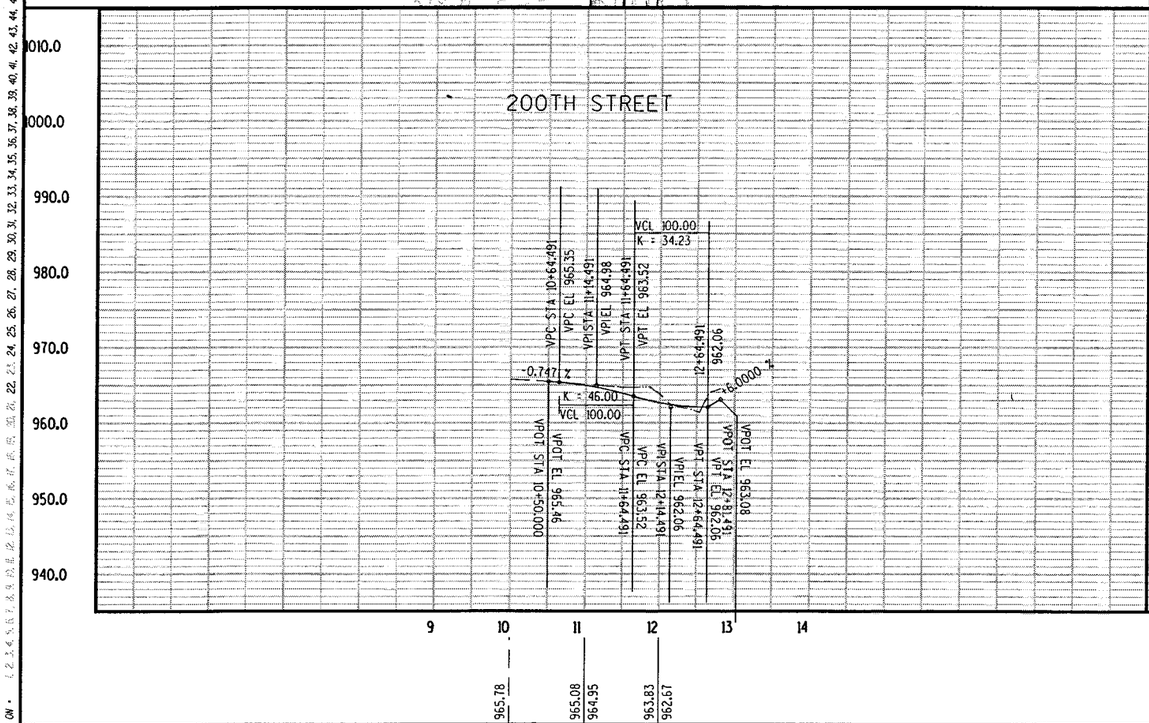


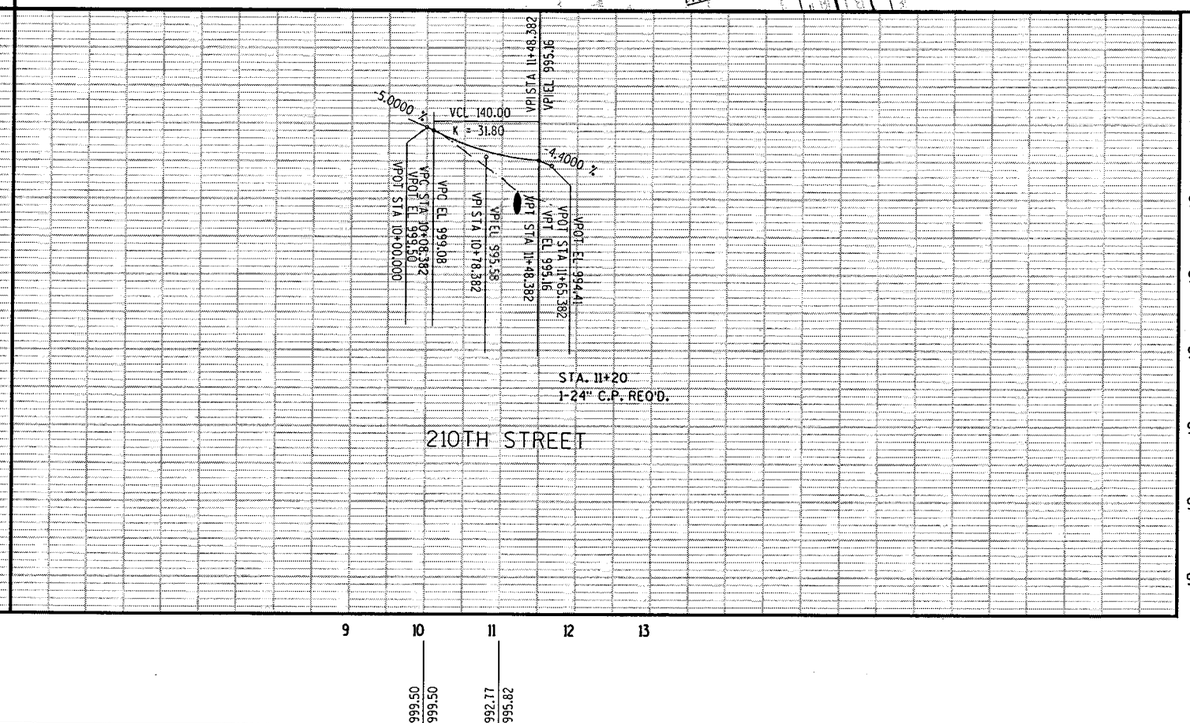
Curve Data
* = 38°41'30.8" (LT)
D = 31°49'56"
T = 63.197
L = 121.554
R = 180.000
PISTA = 11+07.025
PIX = 1646541.022
PIY = 458983.580

DATA TABLE

POINT NO.	STH178 STATION	STH178 OFFSET	210TH ST. STATION	210TH ST. OFFSET	RADIUS *
1	930+19.86	72'LT.	10+37.79	70'LT.	55'
2	928+82.90	57'LT.	11+25.31	55'RT.	40'

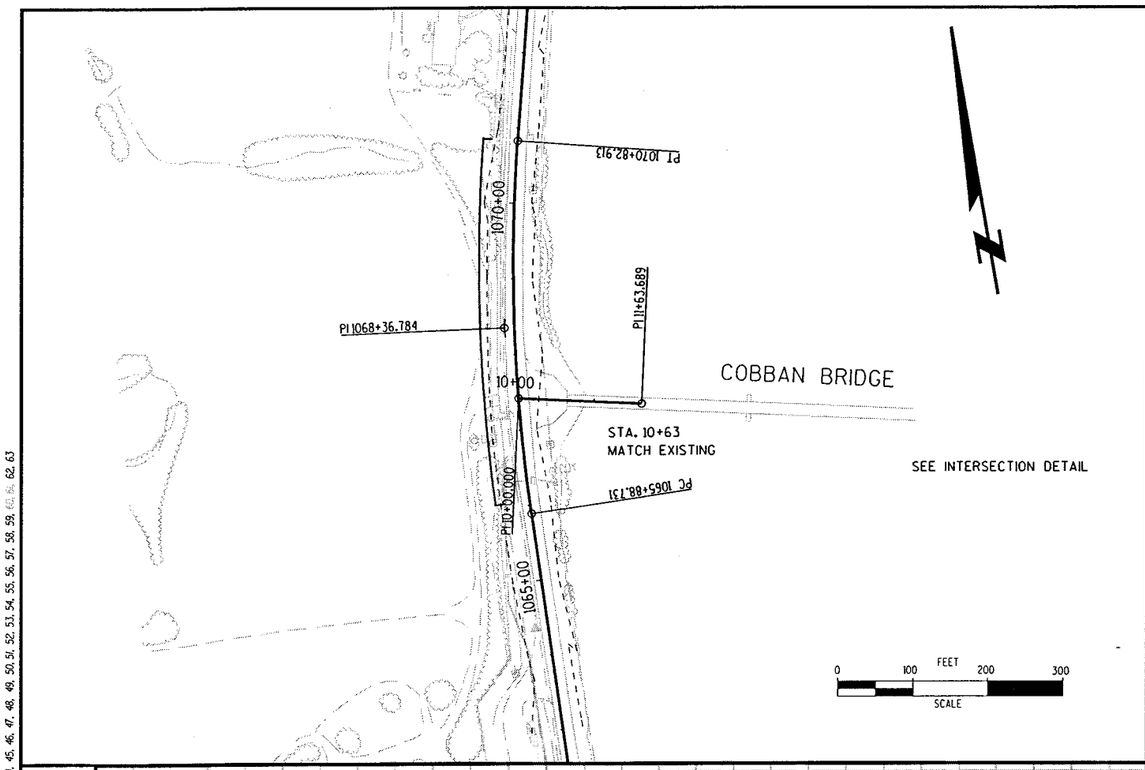
* RADIUS SHOWN IS TO EDGE OF PAVEMENT

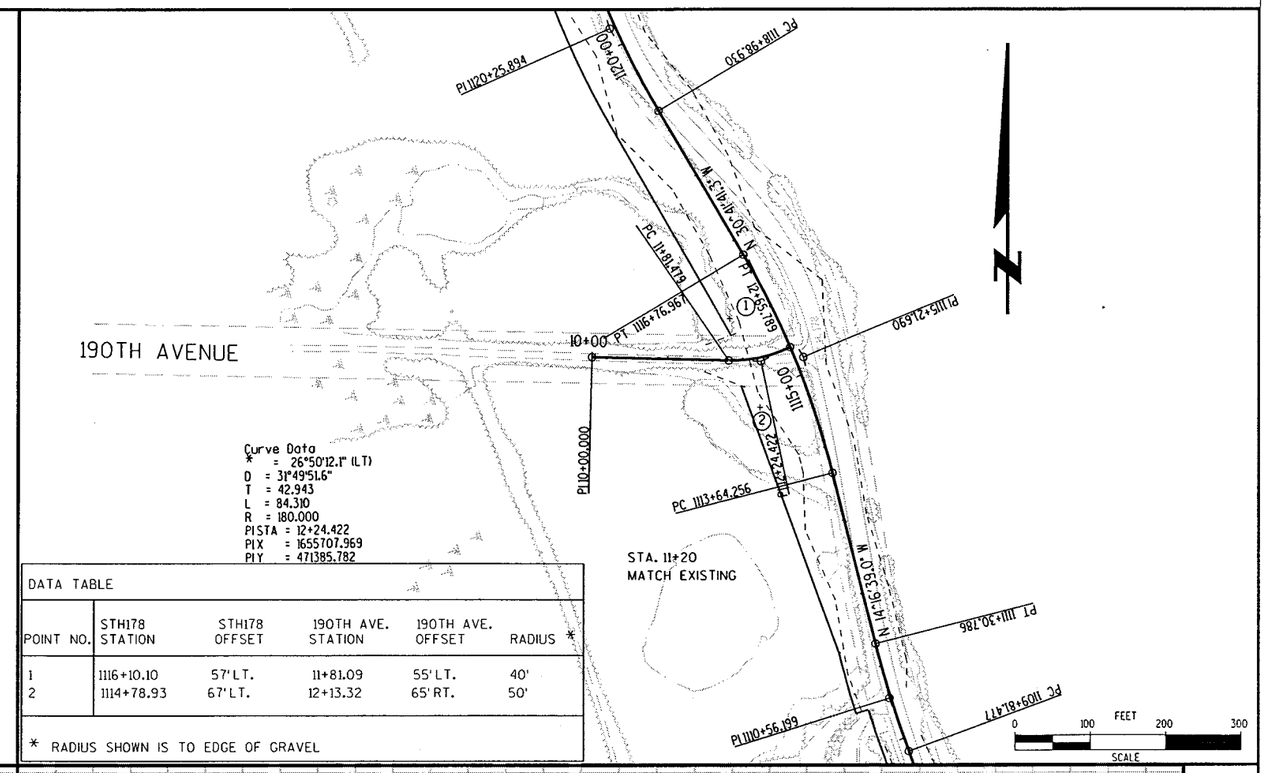




LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

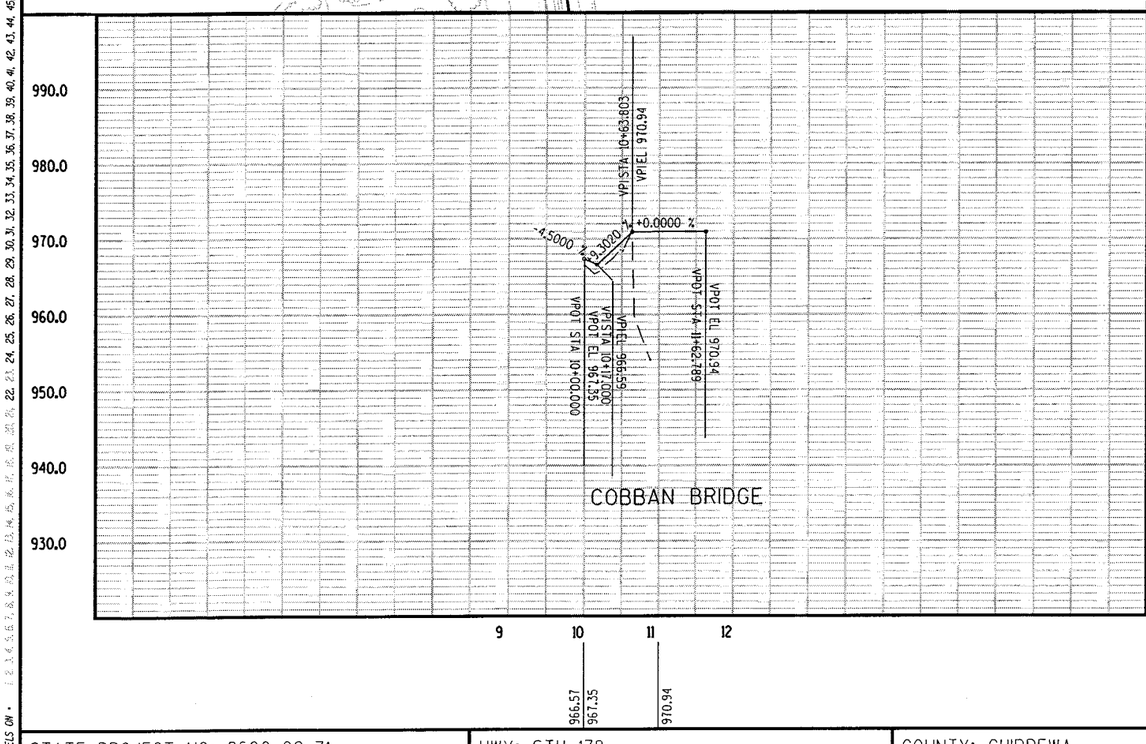
STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE - SIDEROADS	SHEET NO: . 98	E

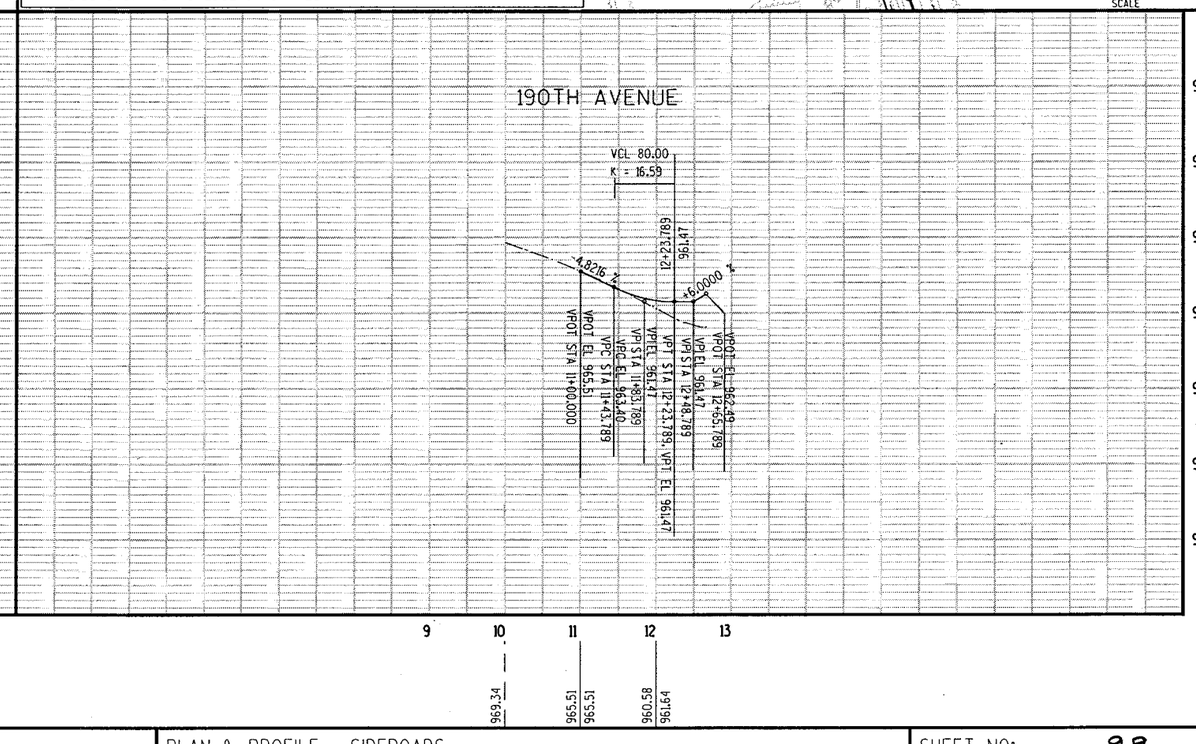




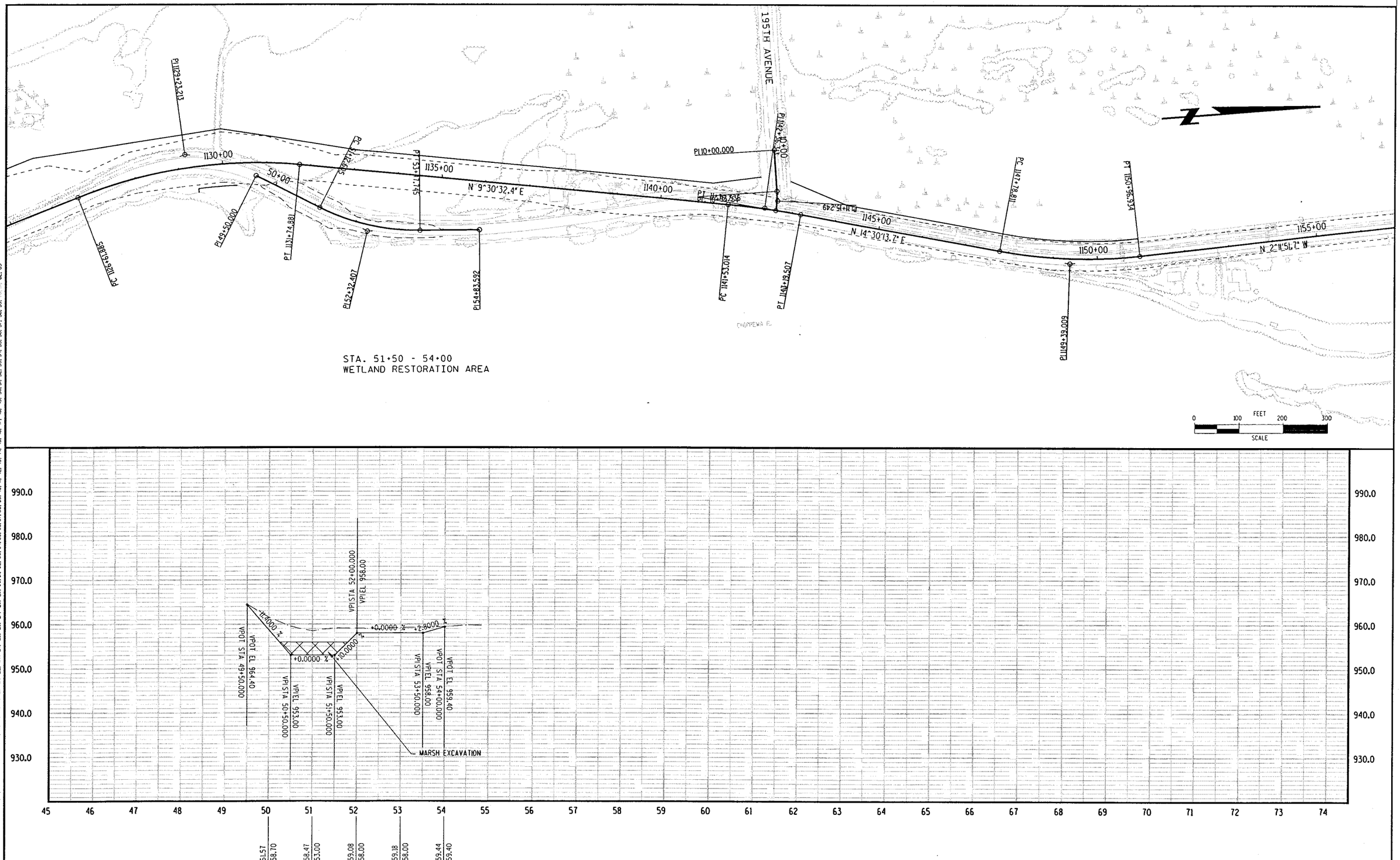
DATA TABLE					
POINT NO.	STH178 STATION	STH178 OFFSET	190TH AVE. STATION	190TH AVE. OFFSET	RADIUS *
1	1116+10.10	57'LT.	11+81.09	55'LT.	40'
2	1114+78.93	67'LT.	12+13.32	65'RT.	50'

* RADIUS SHOWN IS TO EDGE OF GRAVEL





STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE - SIDEROADS	SHEET NO: . 99	E



STATE PROJECT NO: 8600-02-71	HWY: STH 178	COUNTY: CHIPPEWA	PLAN & PROFILE - OLD S.T.H. 178	SHEET NO: . 100	E