

MILL CREEK METROPOLITAN PARK DISTRICT

MAHONING COUNTY, OHIO

EAST PARK TRAIL - PHASE II

MILL CREEK PARK, YOUNGSTOWN, OHIO

PID 112585

MILL CREEK PARK

EAST PARK TRAIL PARALLEL TO EAST PARK DRIVE

EAST PARK TRAIL - PHASE II

MILL CREEK METROPARKS

6-15-21

1

X

ENVIRONMENTAL REVIEW
SUBMITTAL 06-15-21

2019 SPECIFICATIONS

ALL MATERIALS AND CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE PLANS, AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), DATED JANUARY 1, 2019. IN CASE OF DISCREPANCY BETWEEN THE PARK DISTRICT PLANS AND SPECIFICATIONS AND THE ODOT CMS, THE PARK DISTRICT PLANS AND SPECIFICATIONS SHALL GOVERN.

WORK REQUIRED

EAST PARK TRAIL CONSTRUCTION INCLUDING CLEARING, STUMP REMOVAL, EXCAVATION, EMBANKMENT, PLACING AGGREGATE BASE, INTERMEDIATE AND SURFACE COURSES OF ASPHALT CONCRETE AND MISCELLANEOUS RELATED ITEMS.

PLAN PREPARED BY:

Mark A. Fisher
MetroParks Engineer



6/15/21
Date

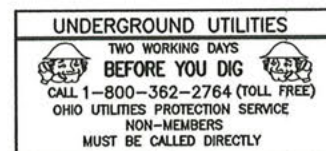
Executive Director, Mill Creek MetroParks

Date

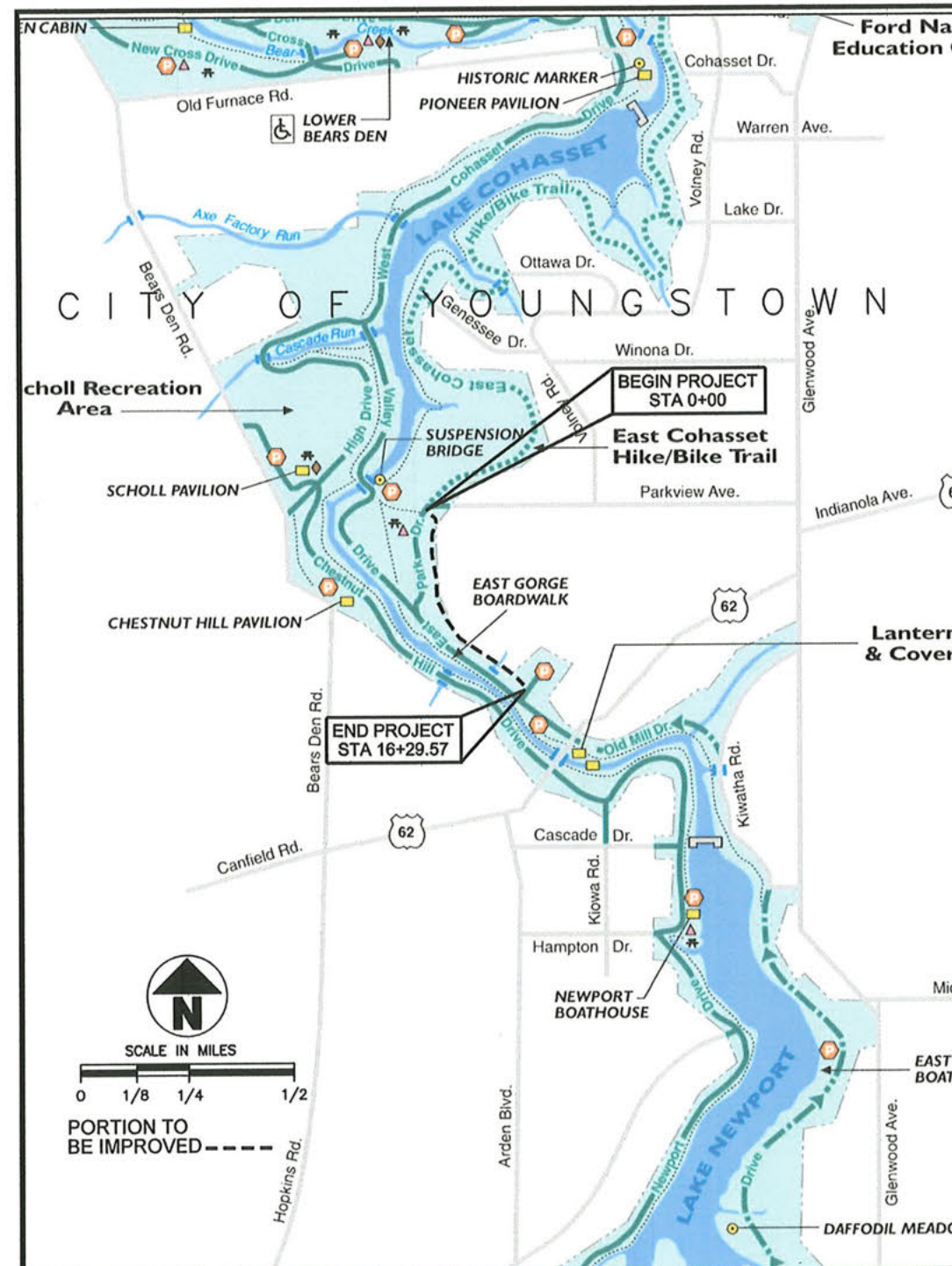


INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES (NOT INCLUDED THIS SUBMITTAL)	3
GENERAL SUMMARY (NOT INCLUDED THIS SUBMITTAL)	3
CENTERLINE & CONTROL DATA	4
ASPHALT & BASE DATA	4
PLAN AND PROFILE	5-11
CROSS SECTIONS	12-16
STANDARD DRAWINGS (NOT INCLUDED THIS SUBMITTAL)	X

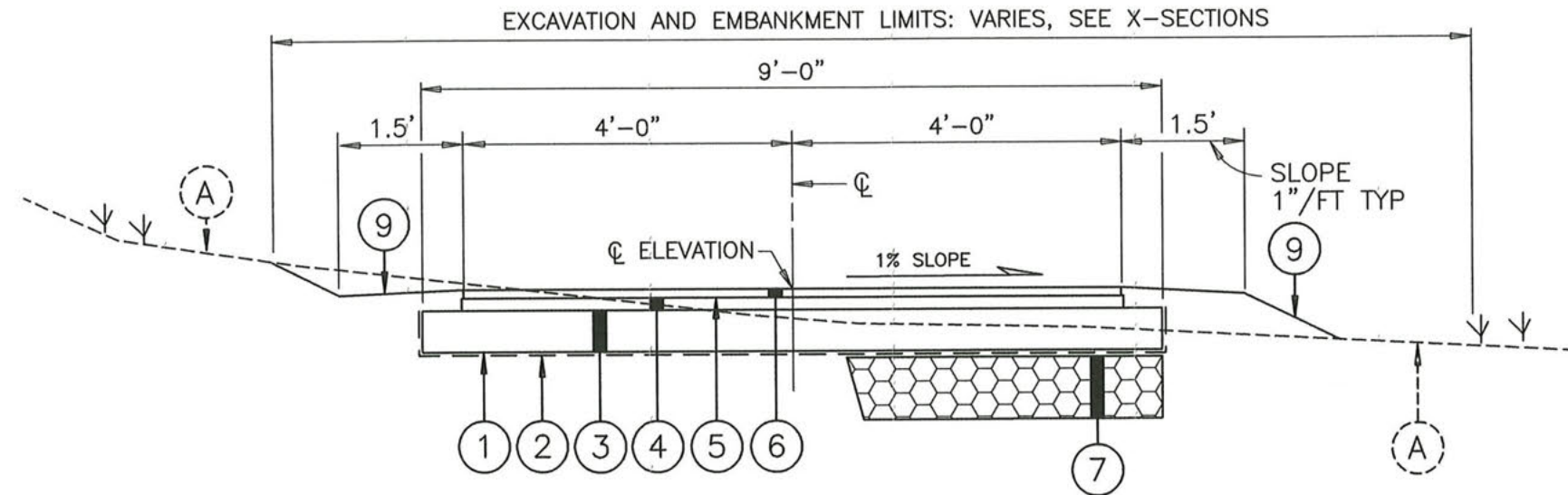


STANDARD DRAWINGS SUPPLEMENTAL SPECIFICATIONS	
BP 3.1 ASPHALT PAVING	7-18-14
BP 7.1 NEW CURB RAMPS	7-20-18
MT 101.60 TYPE 3 BARRICADES	01-20-17
SUPPLEMENTAL SPEC 800	01-19-18

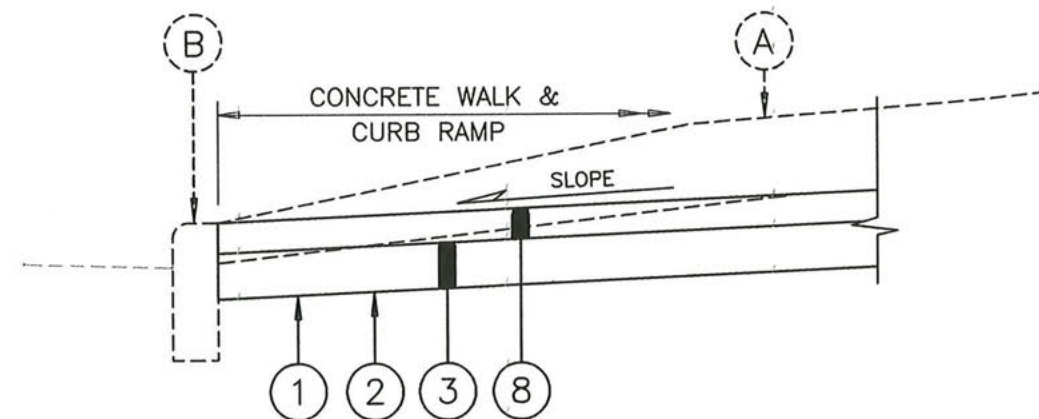


LOCATION MAP

TYPICAL SECTIONS EAST PARK TRAIL - PHASE II



TYPICAL TRAIL SECTION



TYPICAL WALK SECTION

LEGEND

- | | |
|--|---|
| (A) EXISTING GROUND | (5) ITEM 407: TACK COAT @ 0.5 GAL/SY |
| (B) EXISTING CONCRETE CURB | (6) ITEM 441: 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 |
| (1) ITEM 204: SUBGRADE COMPACTION | (7) ITEM 204: GRANULAR EMBANKMENT, AS PER PLAN |
| (2) ITEM 204: GEOTEXTILE FABRIC, TYPE D | (8) ITEM 608: 4" CONCRETE WALK |
| (3) ITEM 304: 6" AGGREGATE BASE | (9) ITEM SPECIAL: WOOD CHIP MULCH (1" THICK) |
| (4) ITEM 441: 1.75' ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 | |

PID
112585

CALCULATED
MAF
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

TYPICAL SECTIONS

EAST PARK TRAIL
PHASE II

MILL CREEK
METROPARKS

2
X

NOT INCLUDED THIS SUBMITTAL

6-15-21



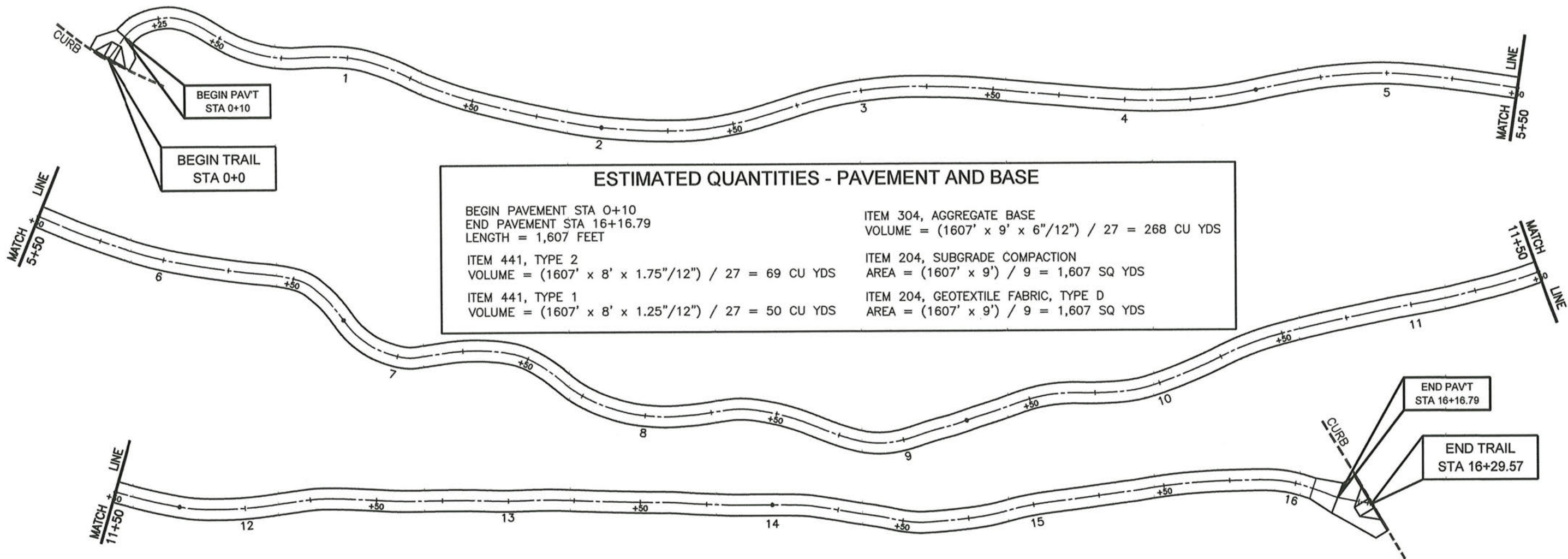
EAST PARK TRAIL PHASE II

GENERAL NOTES
 GENERAL SUMMARY

MILL CREEK PARK
EAST PARK TRAIL

CHECKED	CALCULATED
---------	------------

PID
112585



ESTIMATED QUANTITIES - PAVEMENT AND BASE	
BEGIN PAVEMENT STA 0+10 END PAVEMENT STA 16+16.79 LENGTH = 1,607 FEET	ITEM 304, AGGREGATE BASE VOLUME = (1607' x 9' x 6"/12") / 27 = 268 CU YDS
ITEM 441, TYPE 2 VOLUME = (1607' x 8' x 1.75"/12") / 27 = 69 CU YDS	ITEM 204, SUBGRADE COMPACTION AREA = (1607' x 9') / 9 = 1,607 SQ YDS
ITEM 441, TYPE 1 VOLUME = (1607' x 8' x 1.25"/12") / 27 = 50 CU YDS	ITEM 204, GEOTEXTILE FABRIC, TYPE D AREA = (1607' x 9') / 9 = 1,607 SQ YDS

CENTERLINE DATA					
COORDINATES			COORDINATES		
¢ STATION	NORTHING (Y)	EASTING (X)	¢ STATION	NORTHING (Y)	EASTING (X)
0+0	517330.74	2468326.62	8+50	516516.19	2468441.53
0+25	517314.45	2468344.36	9+0	516468.03	2468451.42
0+50	517290.37	2468340.71	9+50	516430.27	2468484.16
1+0	517241.22	2468341.09	10+0	516387.22	2468509.07
1+50	517192.10	2468332.62	10+50	516351.86	2468544.31
2+0	517142.18	2468330.55	11+0	516311.13	2468573.29
2+50	517093.29	2468339.91	11+50	516271.38	2468603.52
3+0	517047.55	2468359.93	12+0	516240.46	2468642.39
3+50	516998.38	2468368.47	12+50	516217.06	2468686.51
4+0	516948.55	2468372.55	13+0	516190.84	2468728.97
4+50	516900.07	2468384.20	13+50	516164.45	2468771.43
5+0	516852.24	2468398.26	14+0	516137.67	2468813.63
5+50	516802.18	2468400.67	14+50	516106.79	2468852.82
6+0	516752.47	2468404.04	15+0	516086.38	2468898.16
6+50	516704.19	2468416.76	15+50	516066.66	2468944.09
7+0	516656.73	2468405.31	16+0	516041.57	2468987.13
7+50	516610.84	2468423.62	16+29.57	516020.28	2469007.52
8+0	516561.63	2468421.45			

NOTE: CENTERLINE DATA POINTS SHALL BE SET IN THE FIELD AND USED AS A GUIDE TO ESTABLISH THE FINISHED TRAIL CENTERLINE. THE CONTRACTOR SHALL ADJUST THE FINAL ALIGNMENT AND GRADE TO ACCOMMODATE TREES THAT ARE DESIGNATED TO REMAIN IN PLACE AND AS DIRECTED BY THE METROPARKS.

CONTROL POINTS DATA				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	N 516115.3380	E 2469013.7290	999.88	MAG NAIL SET
2	N 516222.5800	E 2469195.1300	1011.66	BRASS DISK FD. IN CONC. "MILL 1998"
3	N 515932.7920	E 2469028.5840	992.37	MAG NAIL SET IN TOP OF CURB
4	N 516072.2140	E 2468788.0180	990.96	MAG NAIL SET IN TOP OF CURB
5	N 516192.7040	E 2468580.3730	989.51	MAG NAIL SET IN TOP OF CURB
6	N 516319.0580	E 2468376.9140	978.53	MAG NAIL SET IN TOP OF CURB
7	N 516533.4000	E 2468271.6610	964.30	MAG NAIL SET IN TOP OF CURB
8	N 516797.2270	E 2468350.7730	987.17	MAG NAIL SET IN TOP OF CURB
9	N 517227.9260	E 2468278.3340	1006.98	5/8" REBAR SET w/CONTROL CAP
10	N 517430.2270	E 2468371.0150	1003.25	MAG NAIL SET IN TOP OF CURB

THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83(2011) AS REFERENCED THE CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) IN OHIO WHICH ARE PART OF THE OHIO VIRTUAL REFERENCE SYSTEM (VRS) REAL TIME NETWORK (RTN) WHICH WAS USED TO CONTROL THIS SURVEY.

DERIVED FROM: PORTION OF 2019 METROPARKS INTERSECTION IMPROVEMENT PLAN
BENCHMARK B1 = SPIKE IN LIGHT POLE
¢ STA. 4+80
OFFSET: 94'± RIGHT
ELEVATION: 968.42

PID
112585

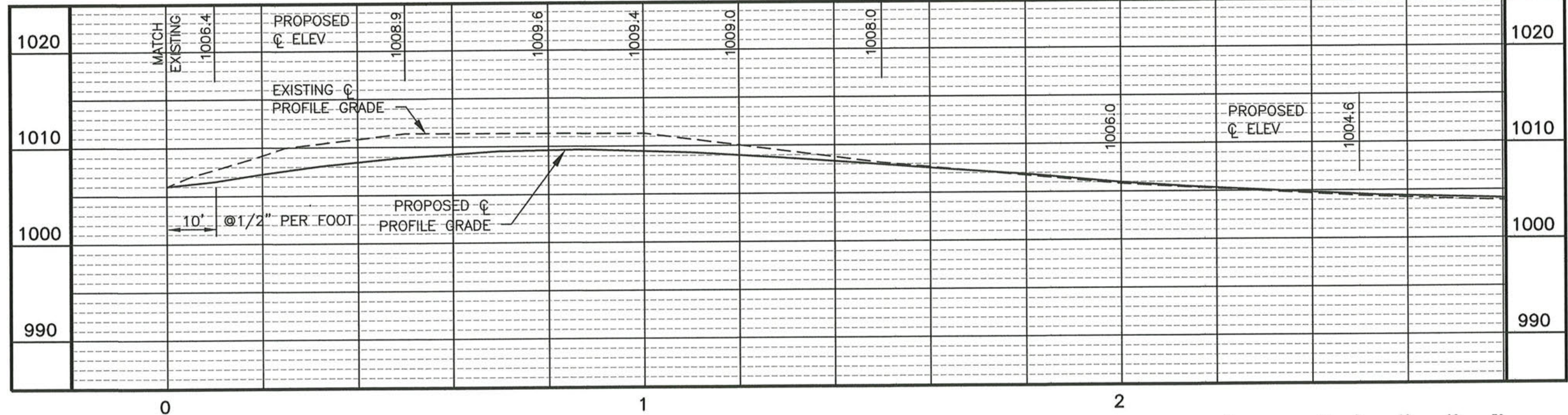
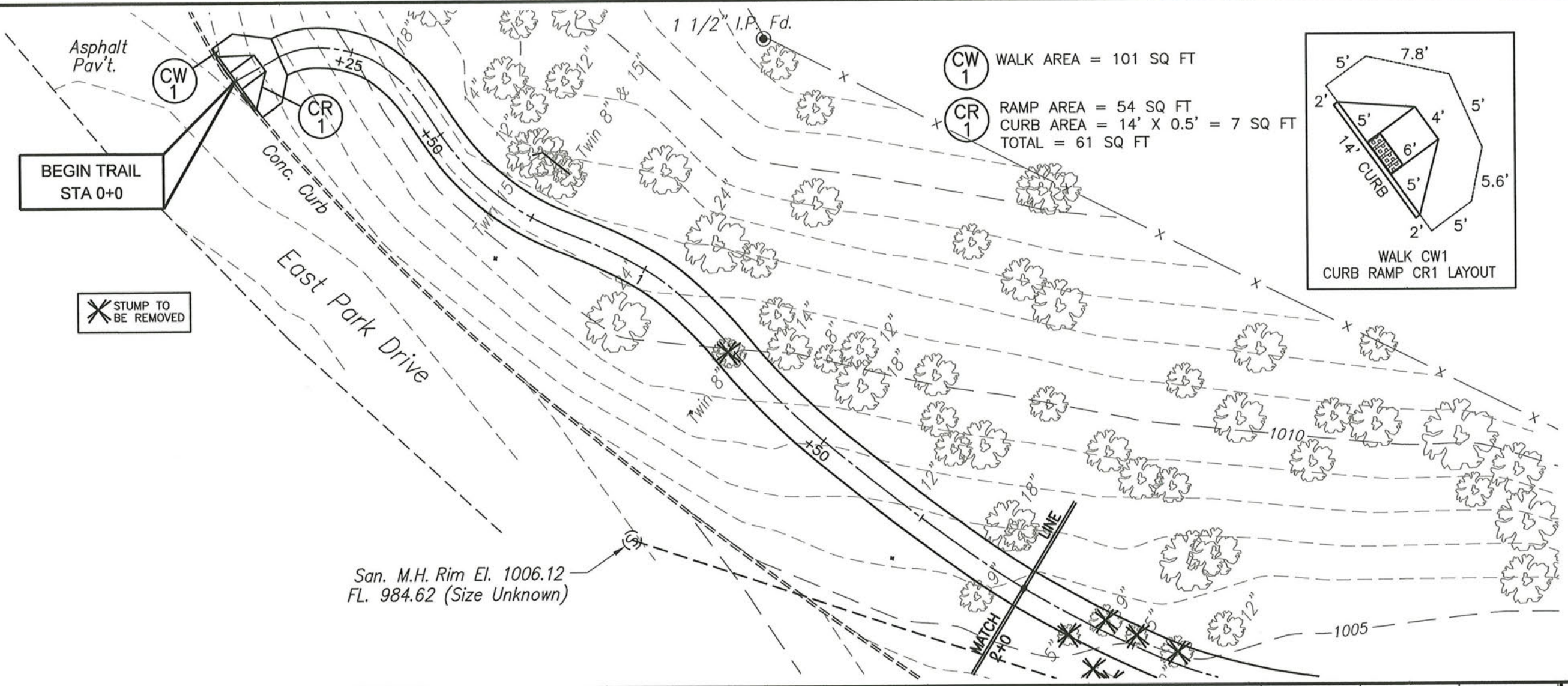
CALCULATED
MAF
CHECKED

CENTERLINE LAYOUT DATA
PAV'T AND BASE QUANTITIES

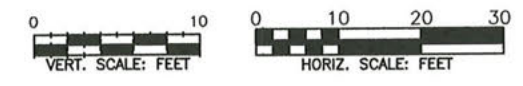
EAST PARK TRAIL
PHASE II

MILL CREEK
METROPARKS

4
X



Q PROFILE





PID
112585

CALCULATED
MAF
CHECKED

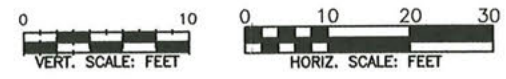
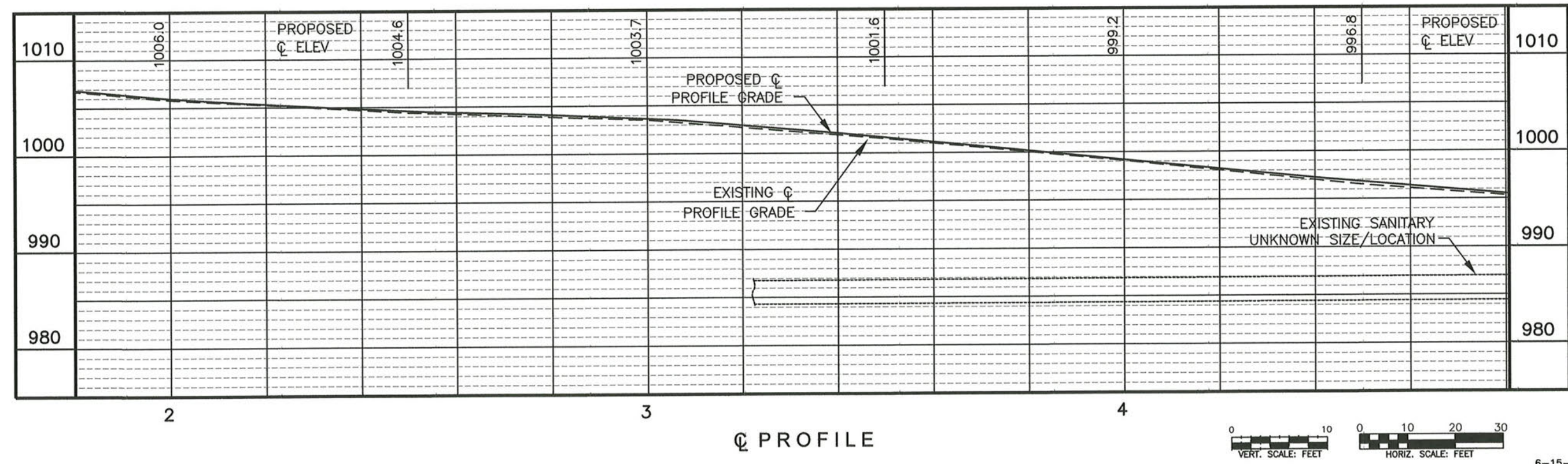
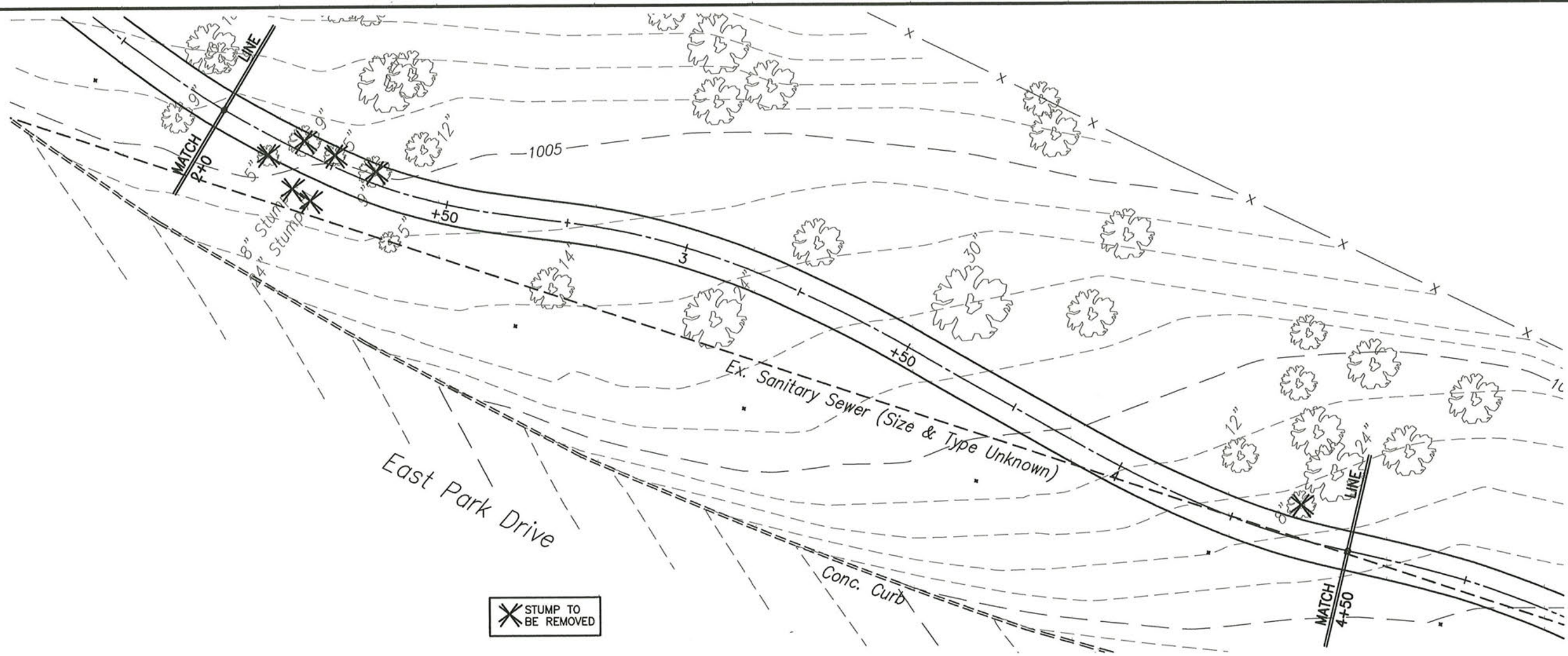
MILL CREEK PARK
EAST PARK TRAIL

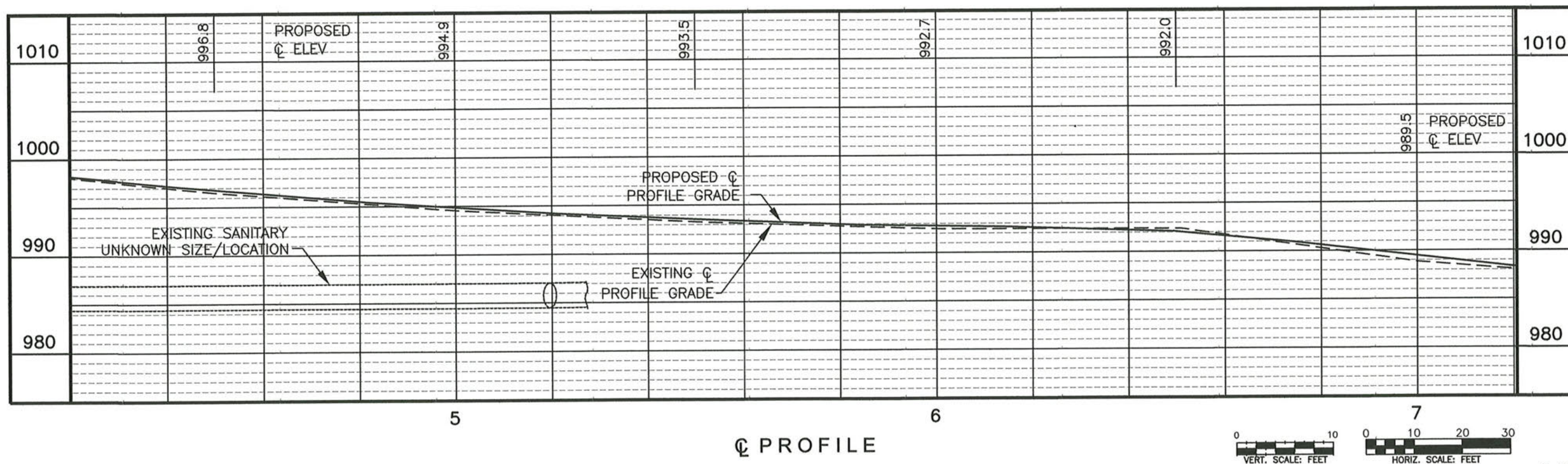
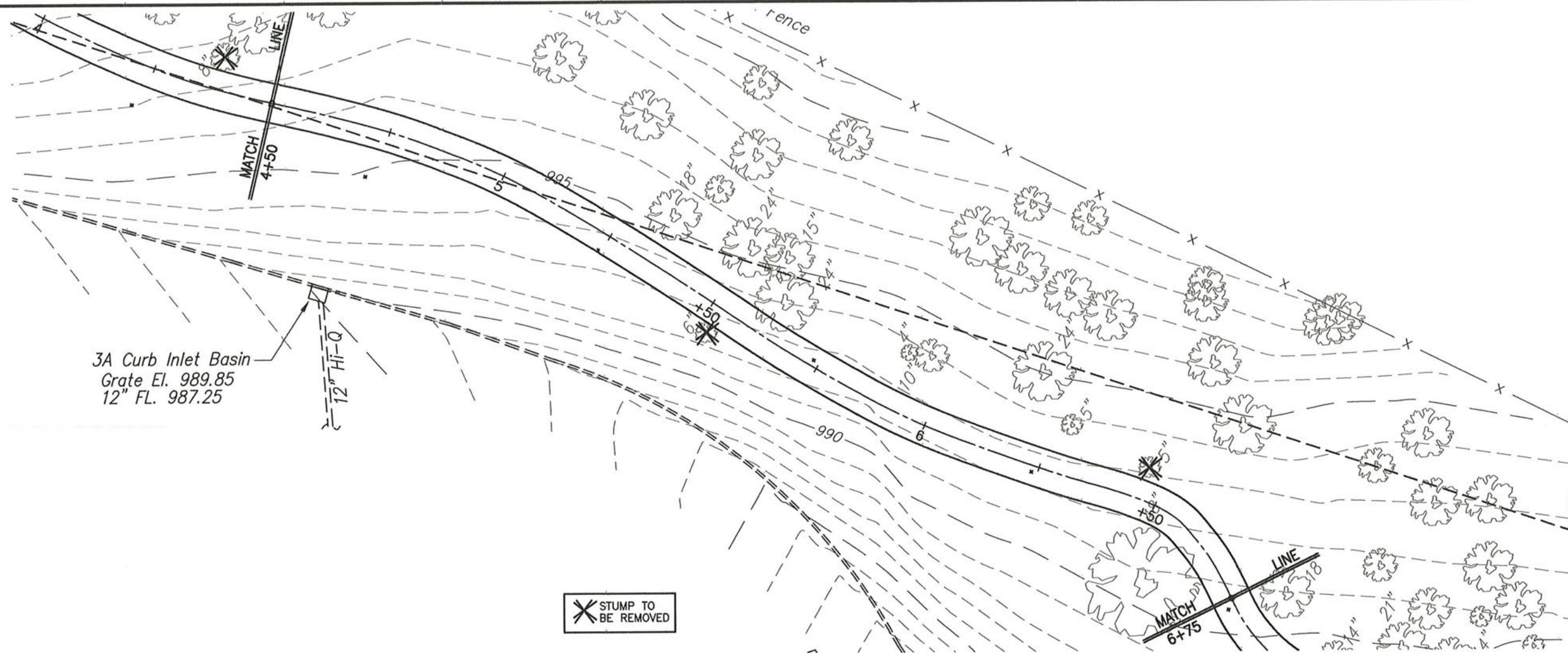
PLAN & PROFILE 2+0 TO 4+50

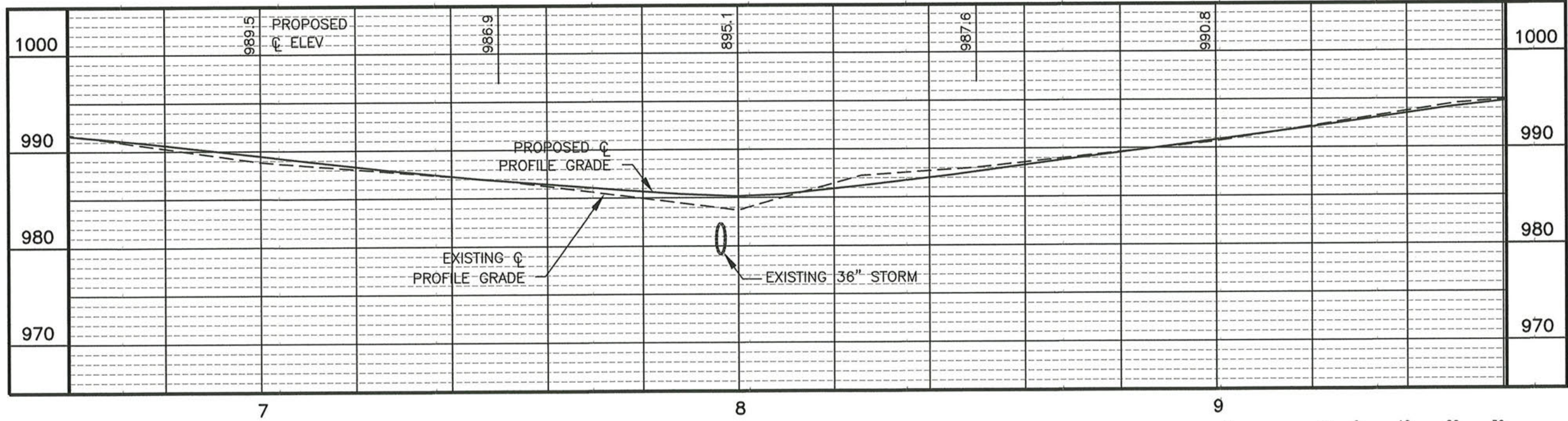
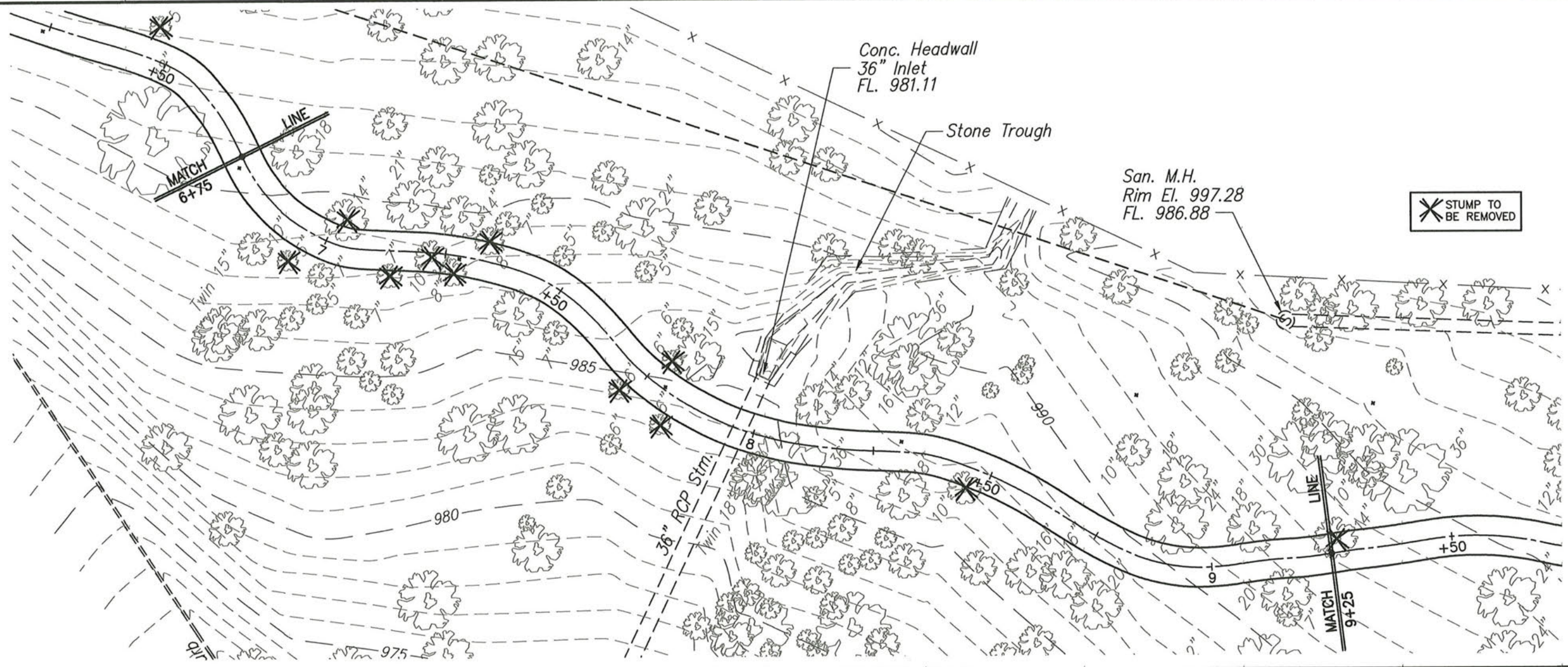
EAST PARK TRAIL
PHASE II



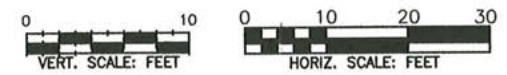
6
X







Q PROFILE



PID 112585

CALCULATED

MAF

CHECKED

MILL CREEK PARK

EAST PARK TRAIL

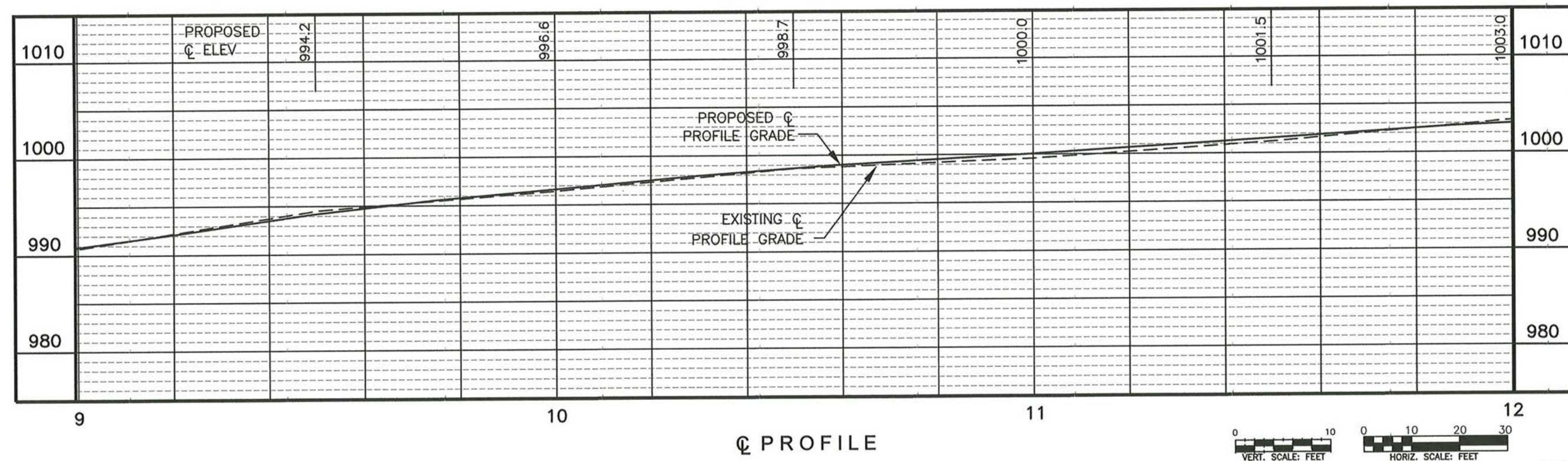
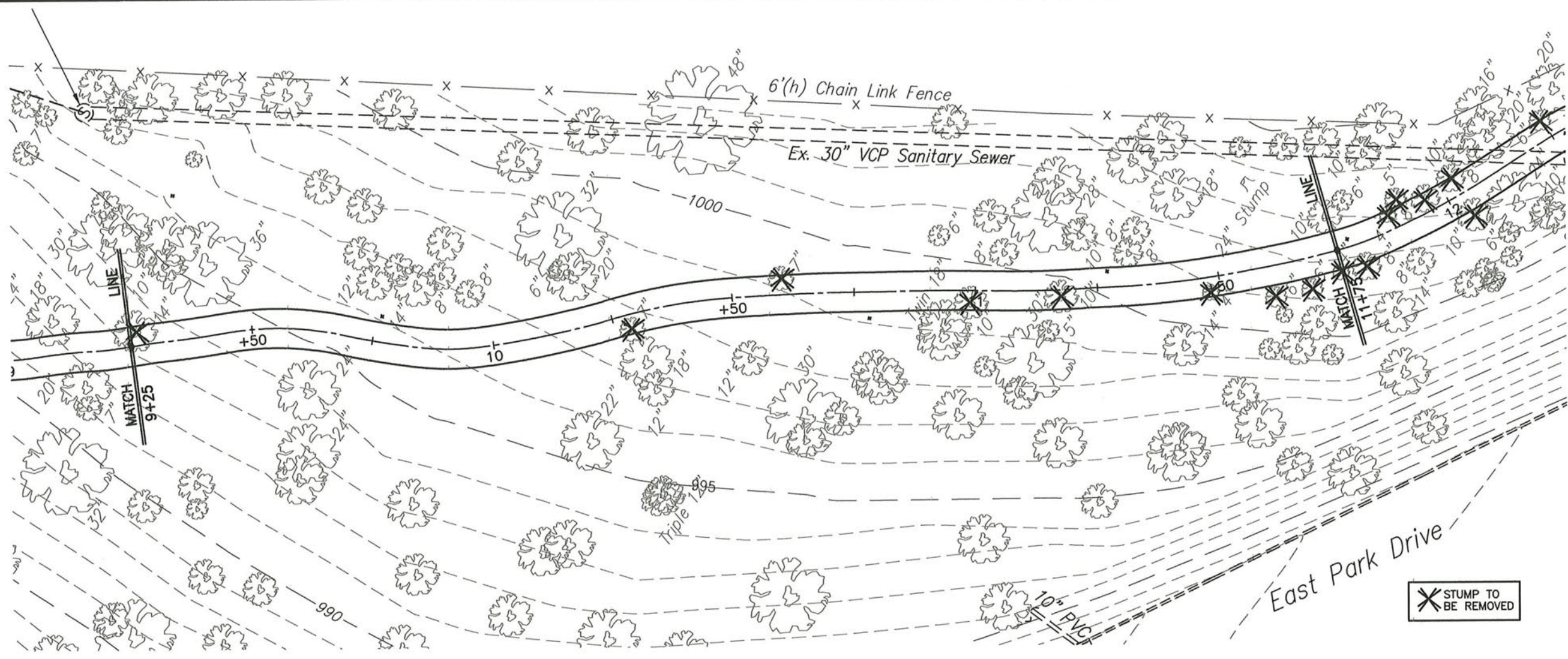
PLAN & PROFILE 6+75 TO 9+25

EAST PARK TRAIL

PHASE II

MILL CREEK
METROPARKS

8



PID 112585

CALCULATED
MAF
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

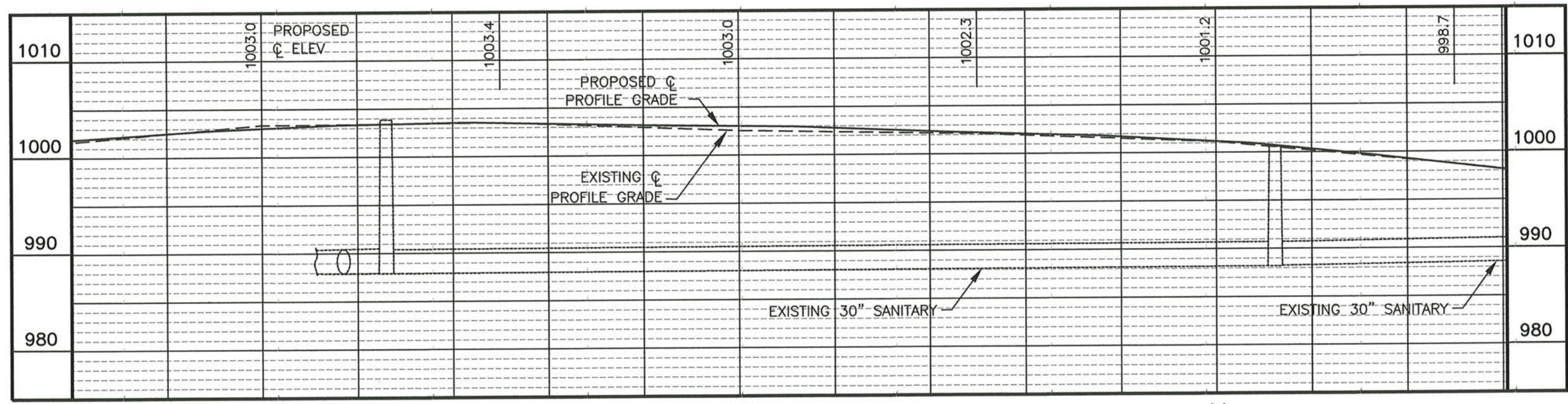
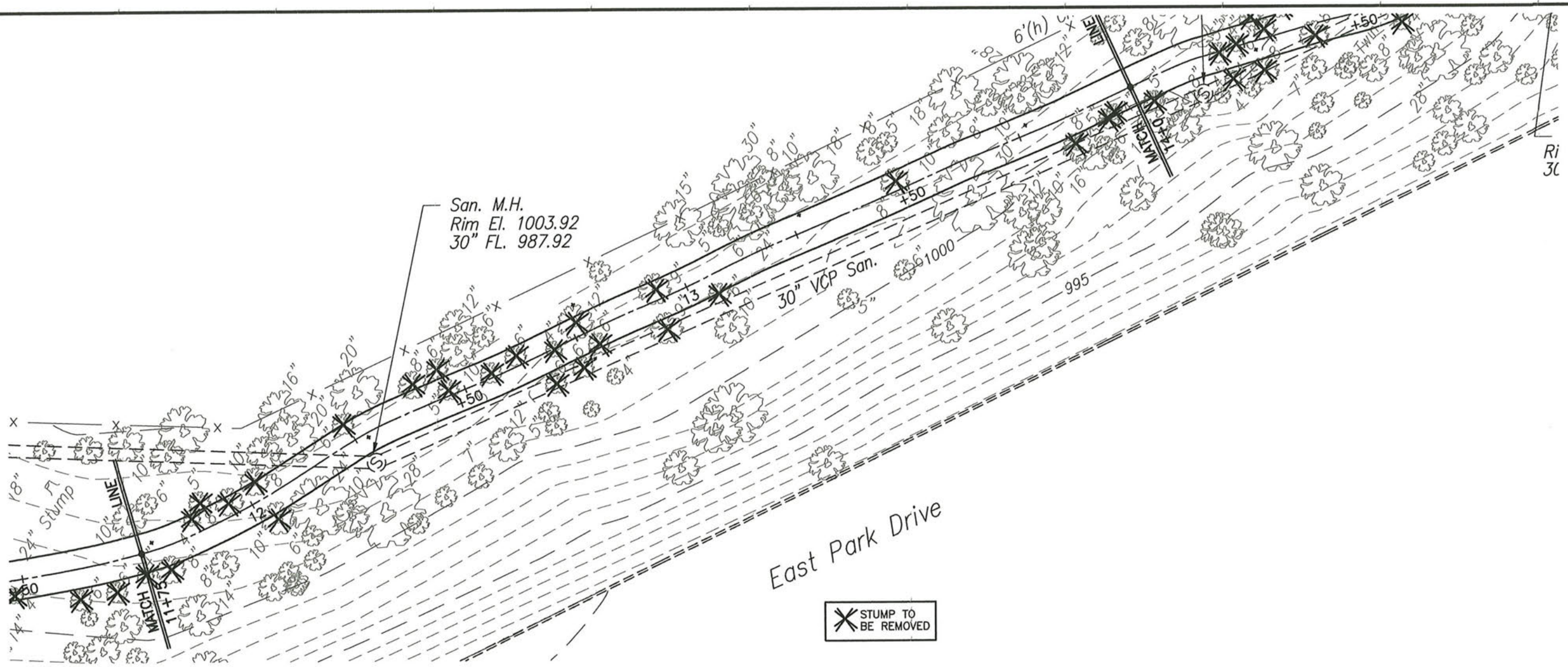
PLAN & PROFILE 9+25 TO 11+75

EAST PARK TRAIL
PHASE II

MILL CREEK
METROPARKS

9
X

6-15-21

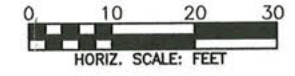


12

13

14

C PROFILE



6-15-21

PID
112585

CALCULATED
MAF

CHECKED

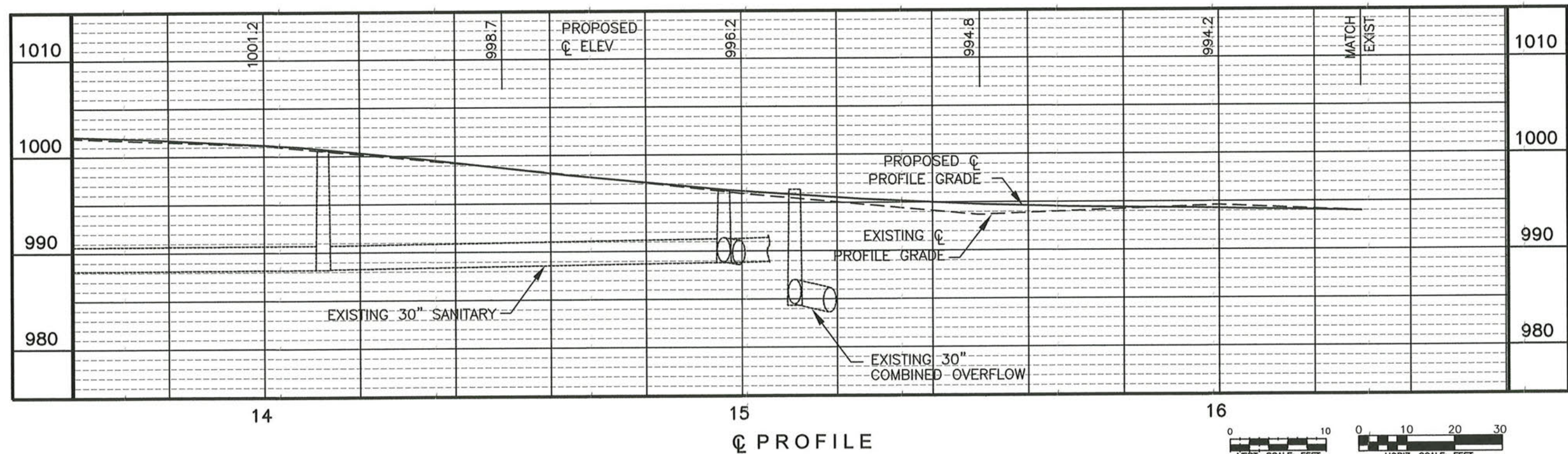
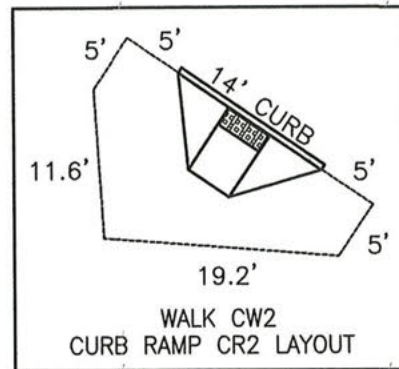
MILL CREEK PARK
EAST PARK TRAIL

PLAN & PROFILE 11+75 TO 14+0

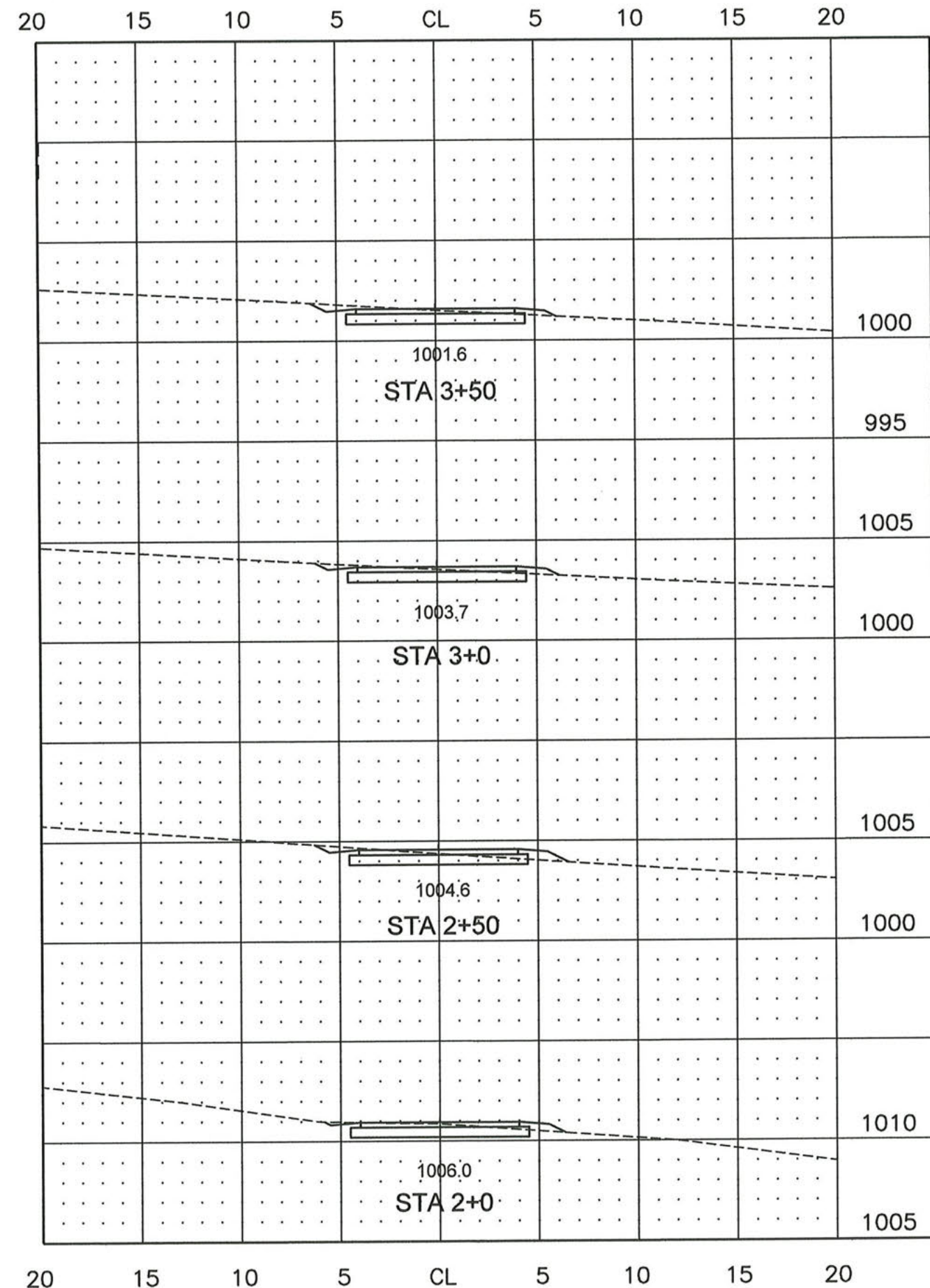
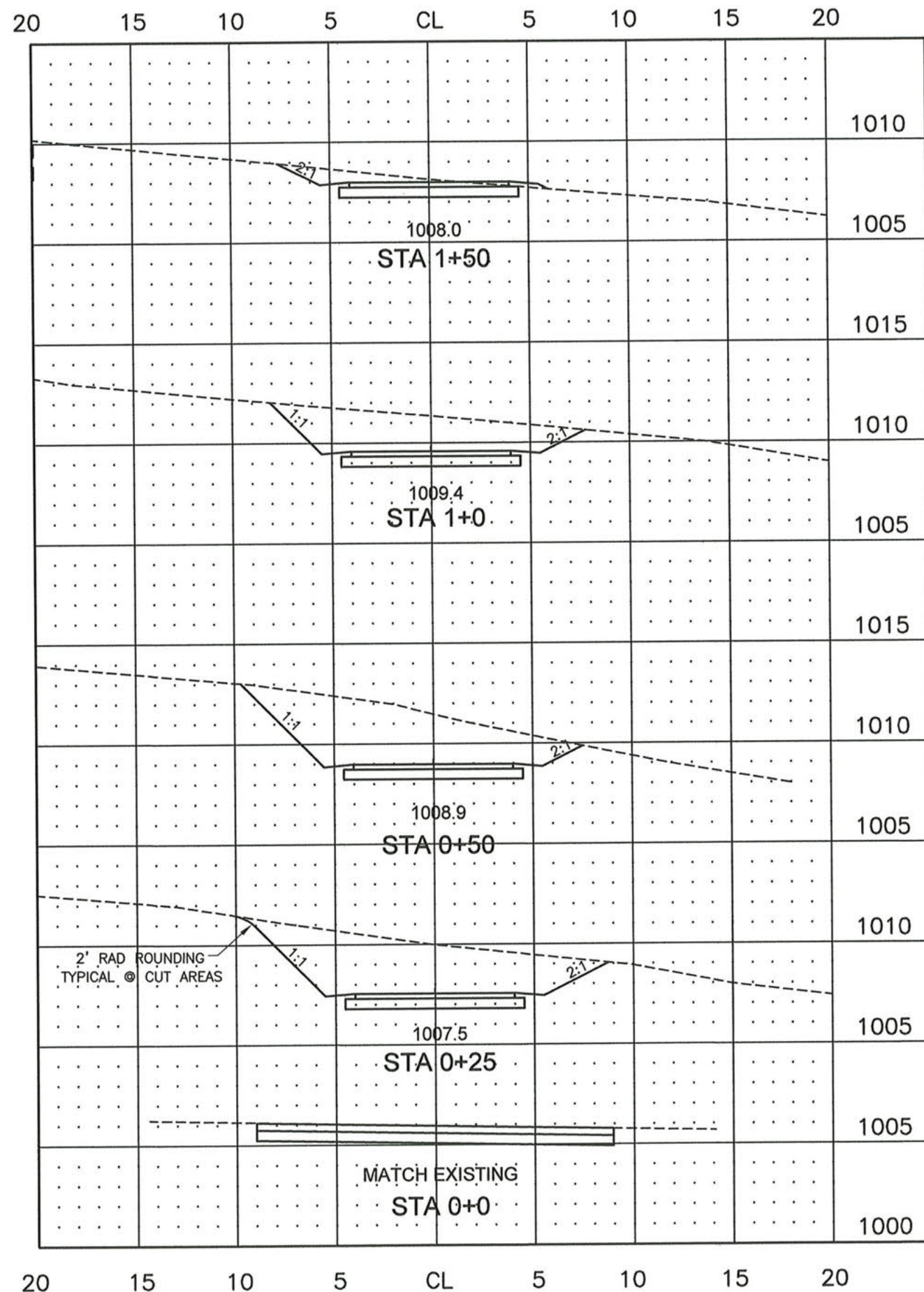
EAST PARK TRAIL
PHASE II

MILL CREEK
METROPARKS

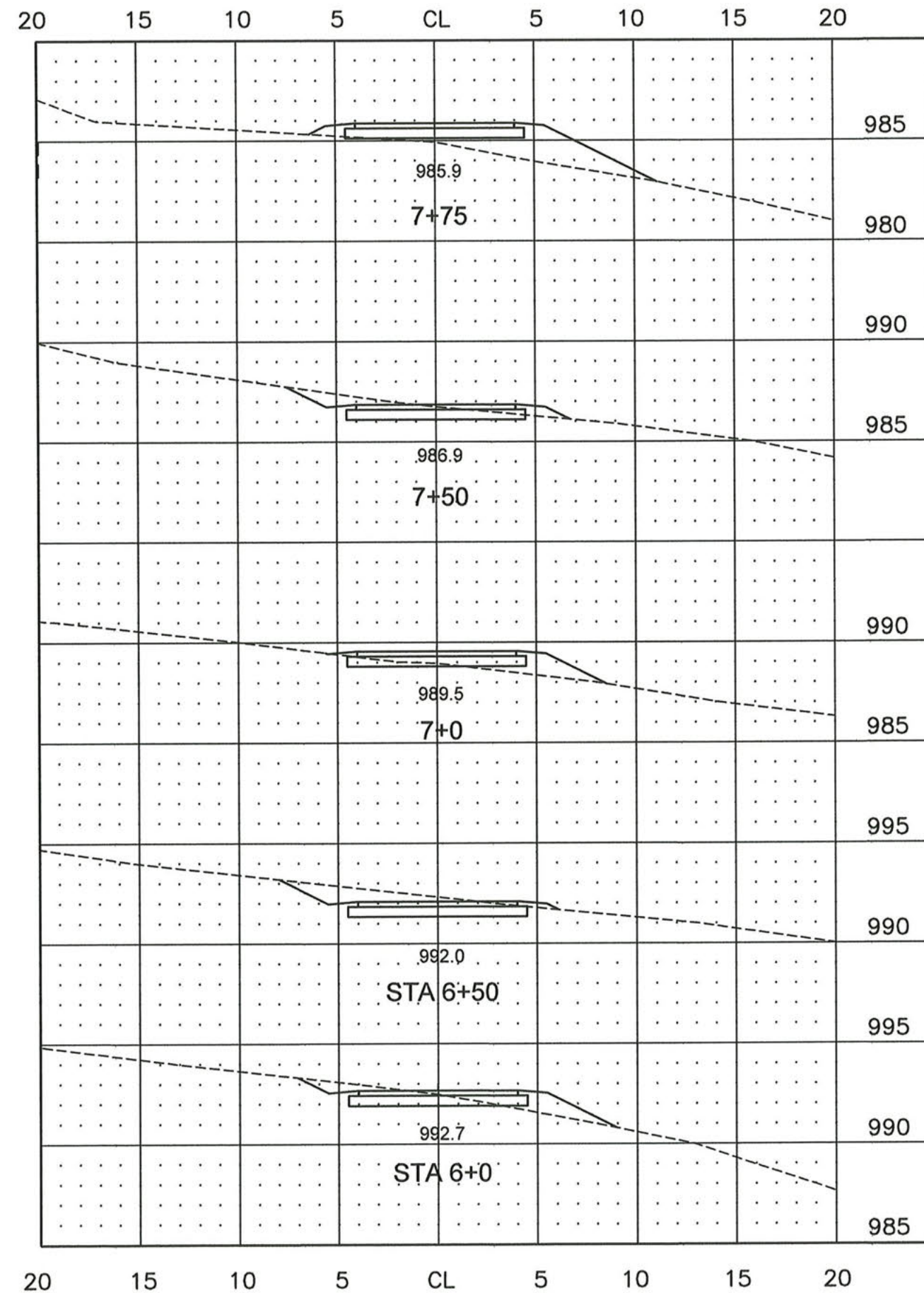
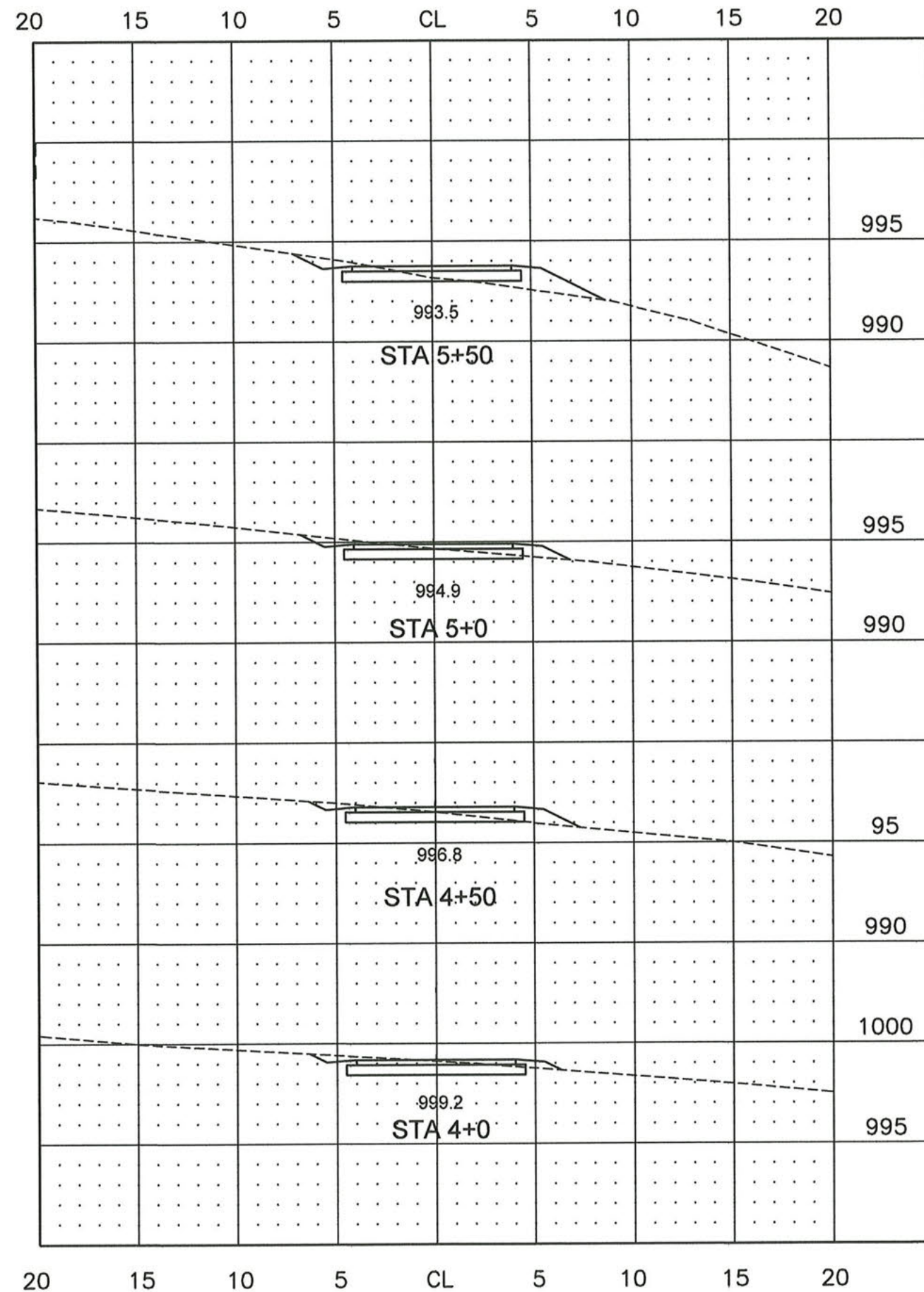
10
X



CROSS SECTIONS



CROSS SECTIONS



PID
112585

CALCULATED
MAF
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

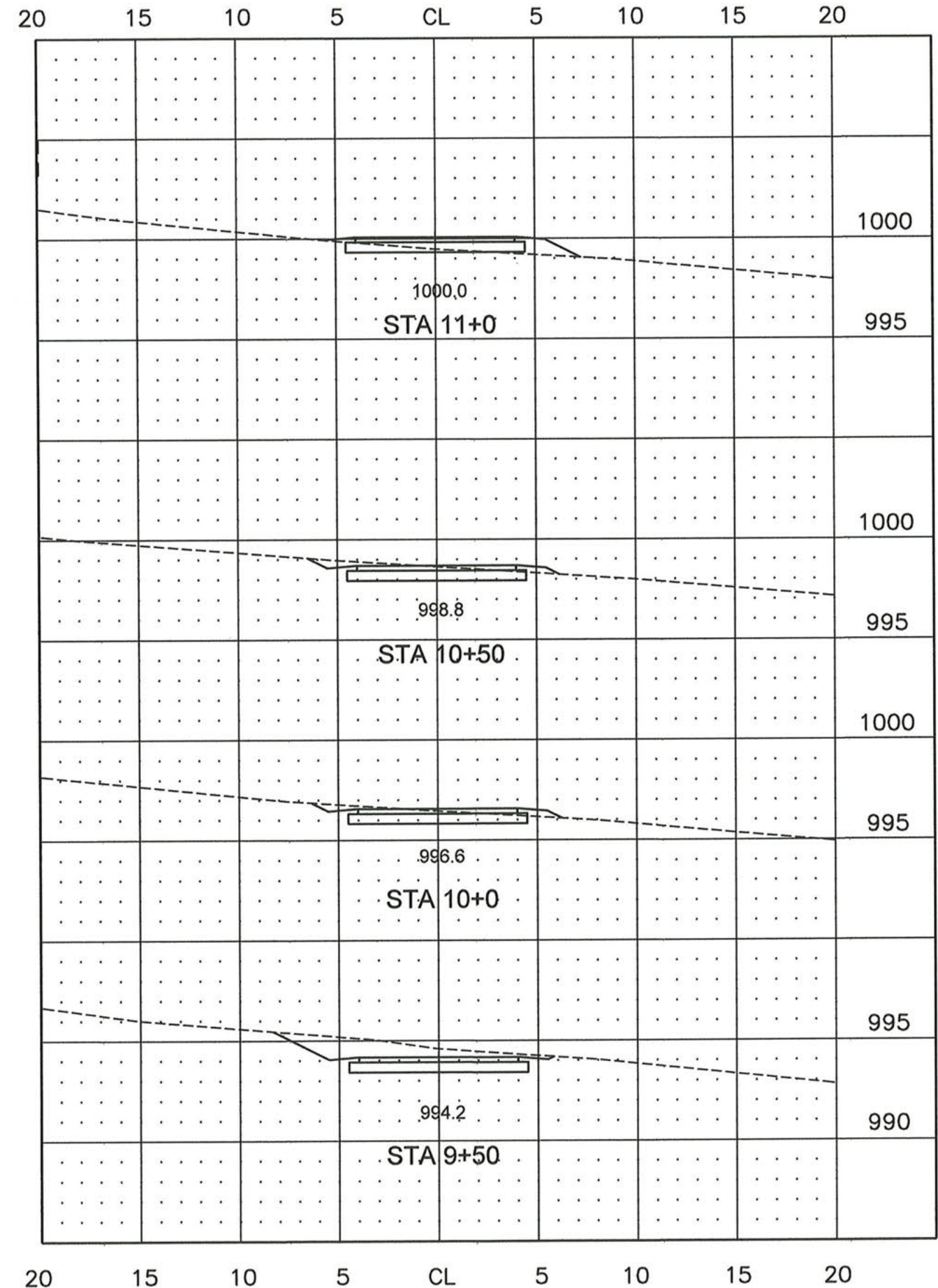
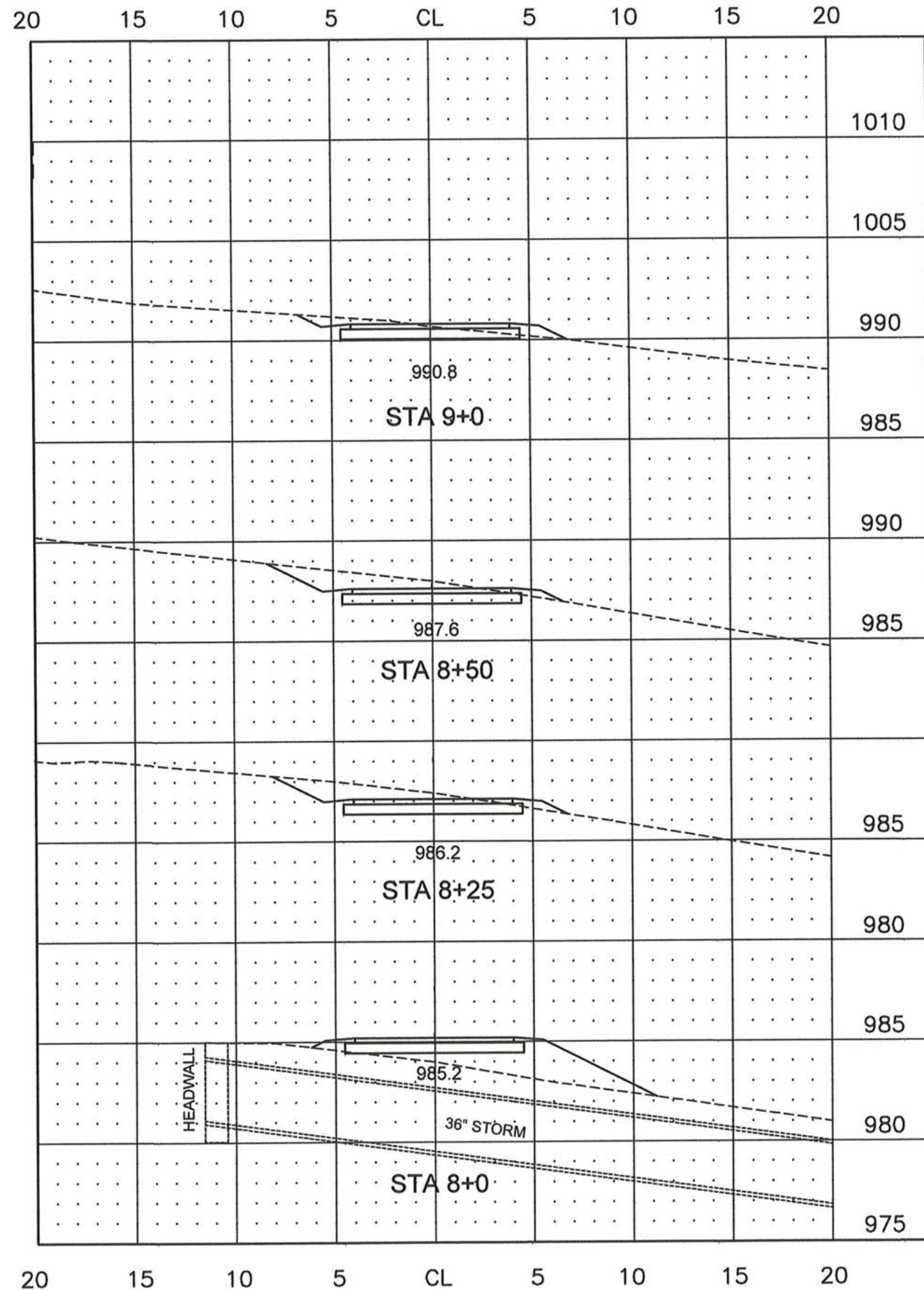
CROSS SECTIONS
STA 4+0 TO STA 7+75

EAST PARK TRAIL
PHASE II



13
X

CROSS SECTIONS



PID
112585

CALCULATED
MAF
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

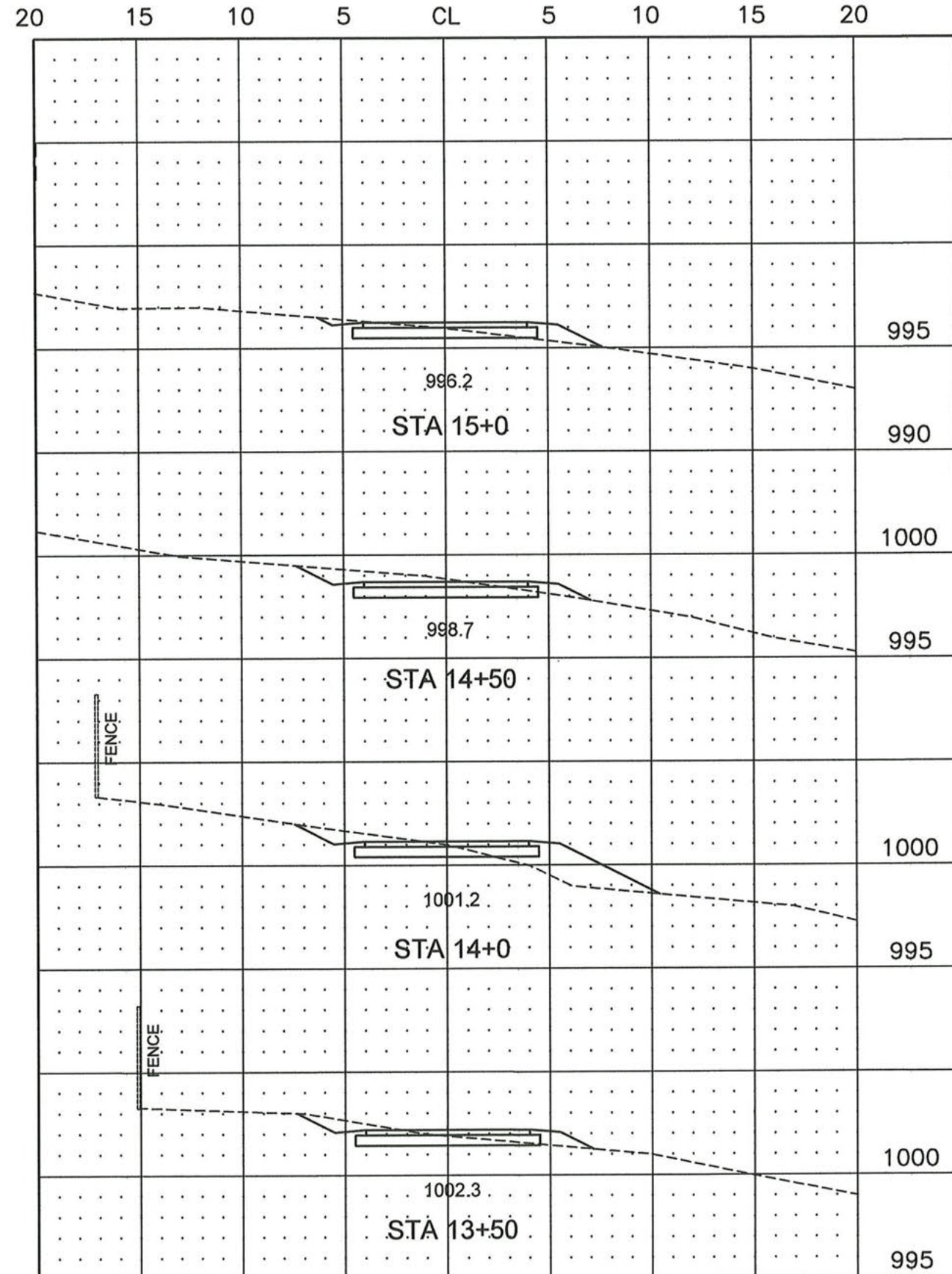
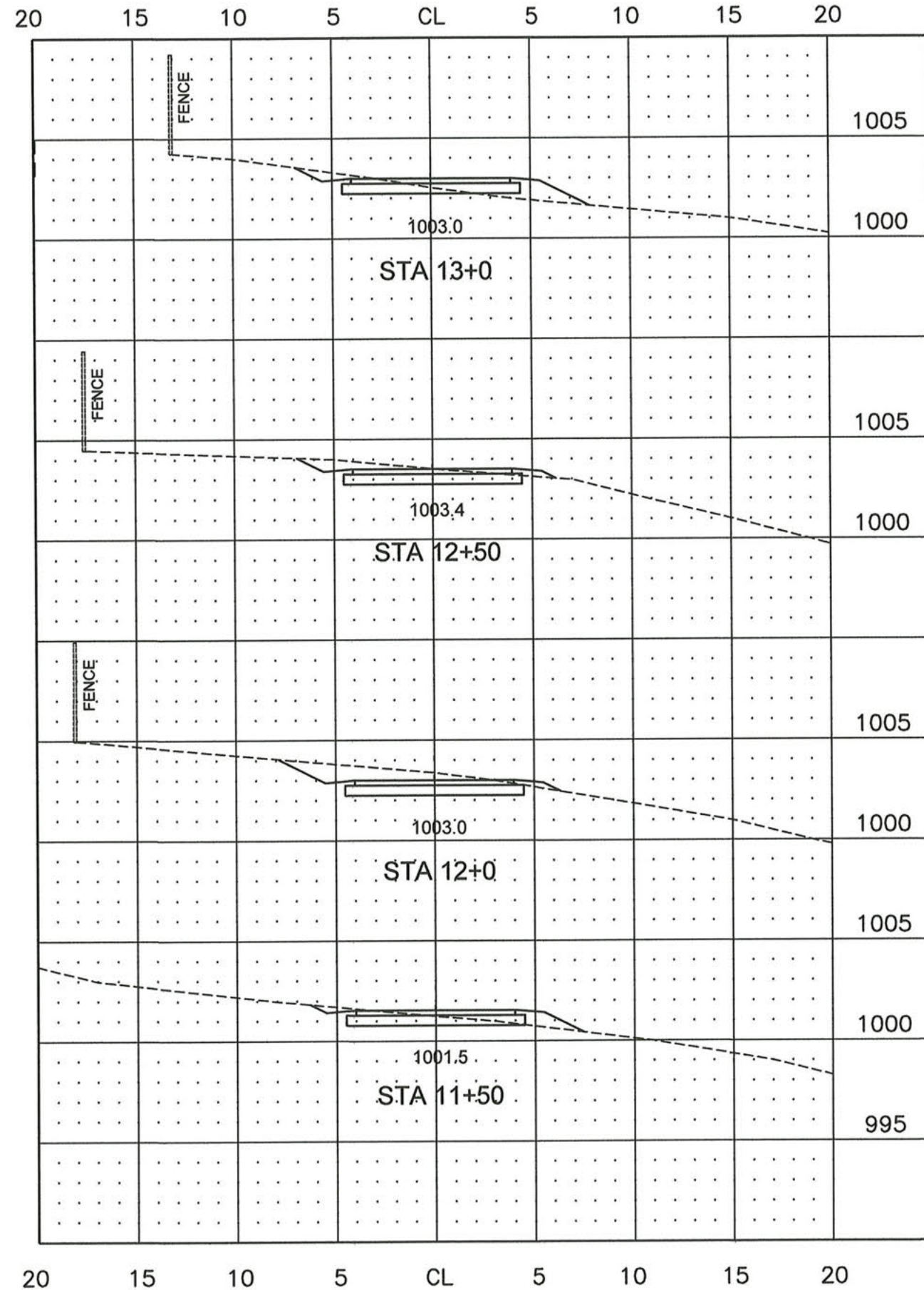
CROSS SECTIONS
STA 8+0 TO STA 11+0

EAST PARK TRAIL
PHASE II



14
X

CROSS SECTIONS



PID
112585

CALCULATED
MAP
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

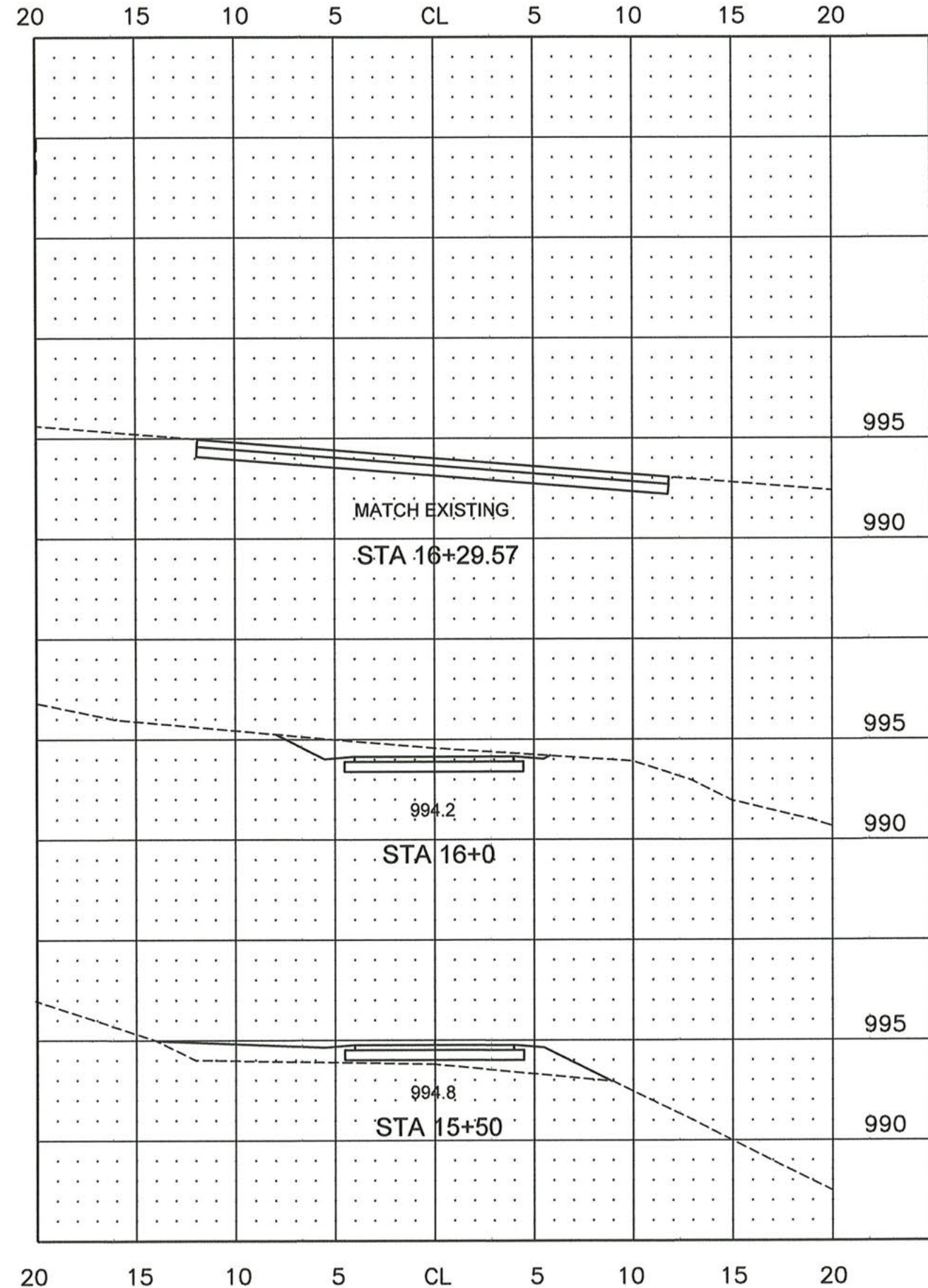
CROSS SECTIONS
STA 11+50 TO STA 15+0

EAST PARK TRAIL
PHASE II



15
X

CROSS SECTIONS



PID
112585

CALCULATED
MAF
CHECKED

MILL CREEK PARK
EAST PARK TRAIL

CROSS SECTIONS
STA 15+50 TO STA 16+29.57

EAST PARK TRAIL
PHASE II



16
X