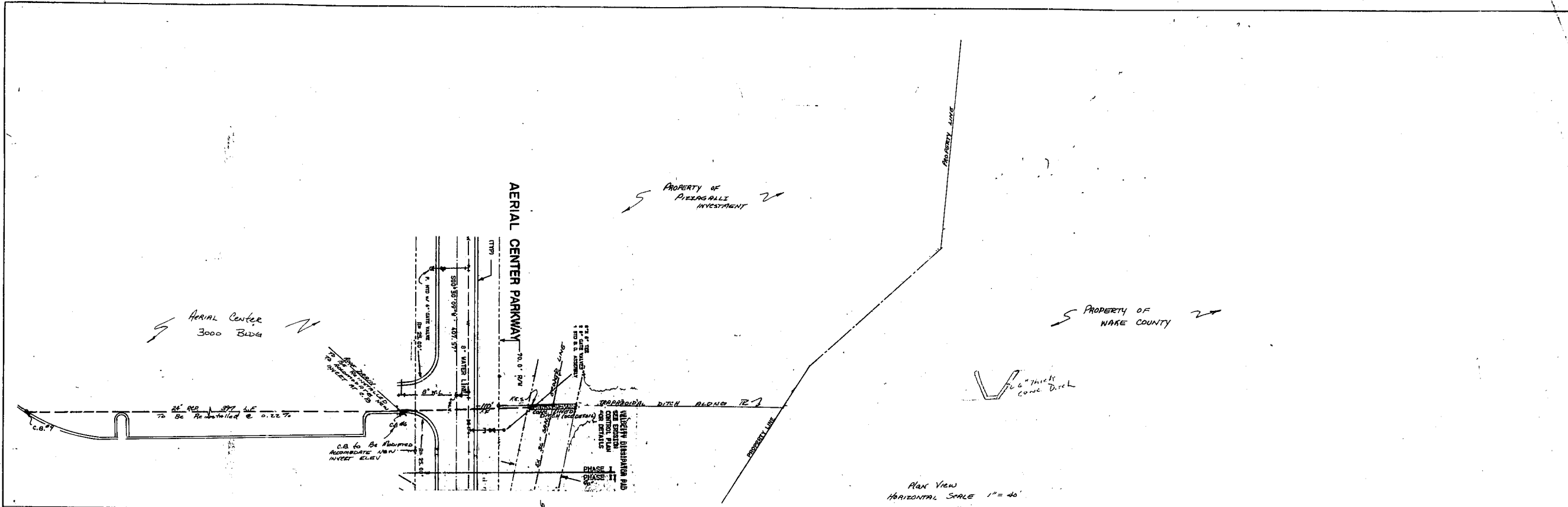
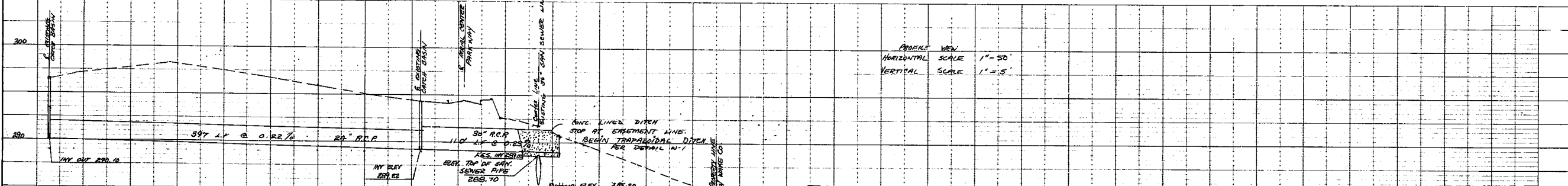


PLAN
 NOTE BOOK
 ARCHITECT CHICAGO
 1917 N. W. 10TH ST.



Plan View
 HORIZONTAL SCALE 1" = 40'

Profile View
 HORIZONTAL SCALE 1" = 50'
 VERTICAL SCALE 1" = 5'



9 AS USED FOR CROSS STREET DRAINAGE
 C.C.# 6 TO FES
 DRAINAGE AREA = 2.6 ac
 Required Capacity = 20.9 cfs

Open Channel Flow for Circular Cross Section PAGE 4

Discharge (cfs)	Average Velocity (ft/s)	Maximum Depth (ft)	Area (sq ft)	Wetted Perimeter (ft)	Top Width (ft)	Froude Number
21.0	4.95	2.02	4.24	5.57	1.98	0.60

Pipe diameter (in) = 40
 Pipe capacity (cfs) = 21.35
 Manning's n value = .012
 Pipe slope (ft/ft) = .00230

C.C.# 5 TO FES
 DRAINAGE AREA = 1.7 ac
 Required Capacity = 9.8 cfs

Open Channel Flow for Circular Cross Section PAGE 4

Discharge (cfs)	Average Velocity (ft/s)	Maximum Depth (ft)	Area (sq ft)	Wetted Perimeter (ft)	Top Width (ft)	Froude Number
2.80	4.11	1.42	2.38	4.01	1.82	0.63

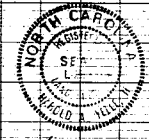
Pipe diameter (in) = 24
 Pipe capacity (cfs) = 11.52
 Manning's n value = .012
 Pipe slope (ft/ft) = .00230

Cone Ditch PAGE 4

Open Channel Flow for Trapezoidal Cross Section

Discharge (cfs)	Average Velocity (ft/s)	Maximum Depth (ft)	Area (sq ft)	Wetted Perimeter (ft)	Top Width (ft)	Froude Number
28.0	4.68	0.86	4.43	7.63	7.36	1.15

Bottom width (ft) = 8.00
 Channel slope (ft/ft) = .00230
 Side slope (H/V) = 2.5
 Manning's n value = .01



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 PROPOSED STORM DRAINAGE IMPROVEMENTS