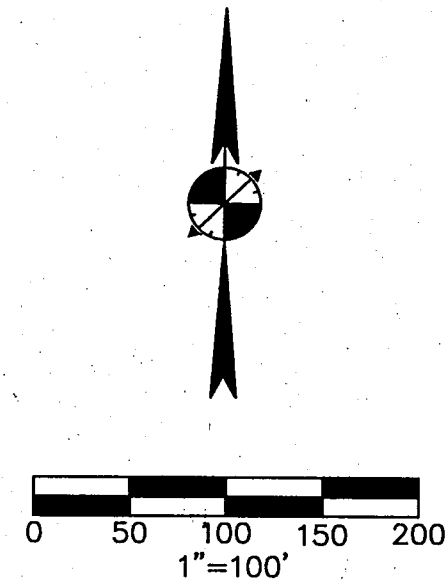


DRAINAGE CALCULATIONS SUMMARY

AREA	ACRES	C	T _c	I(100)	Q(100)
A	2.46	0.90	10	10.5	23.24
B	2.63	0.90	10	10.5	24.85
C	6.01	0.90	10	10.5	56.79
D	2.34	0.90	10	10.5	22.11

THE EXISTING DOWNSTREAM SYSTEM AT CULVERT CROSSING AT SUNBELT DRIVE WILL ONLY HANDLE 593CFS(Q100) OUT OF THE 625CFS(Q100) THAT THE OVERALL 124.9 ACRE DRAINAGE AREA PRODUCES. THE ENTIRE DRAINAGE BASIN MUST BE REDUCED BY 31CFS(625-593). THIS SITE WITH A DRAINAGE AREA OF 13.44 ACRES IS LESS THAN 10% OF THE TOTAL DRAINAGE BASIN SO SHOULD REDUCE THE PEAK BY 3.4CFS(10% OF 34CFS REDUCTION REQUIRED).

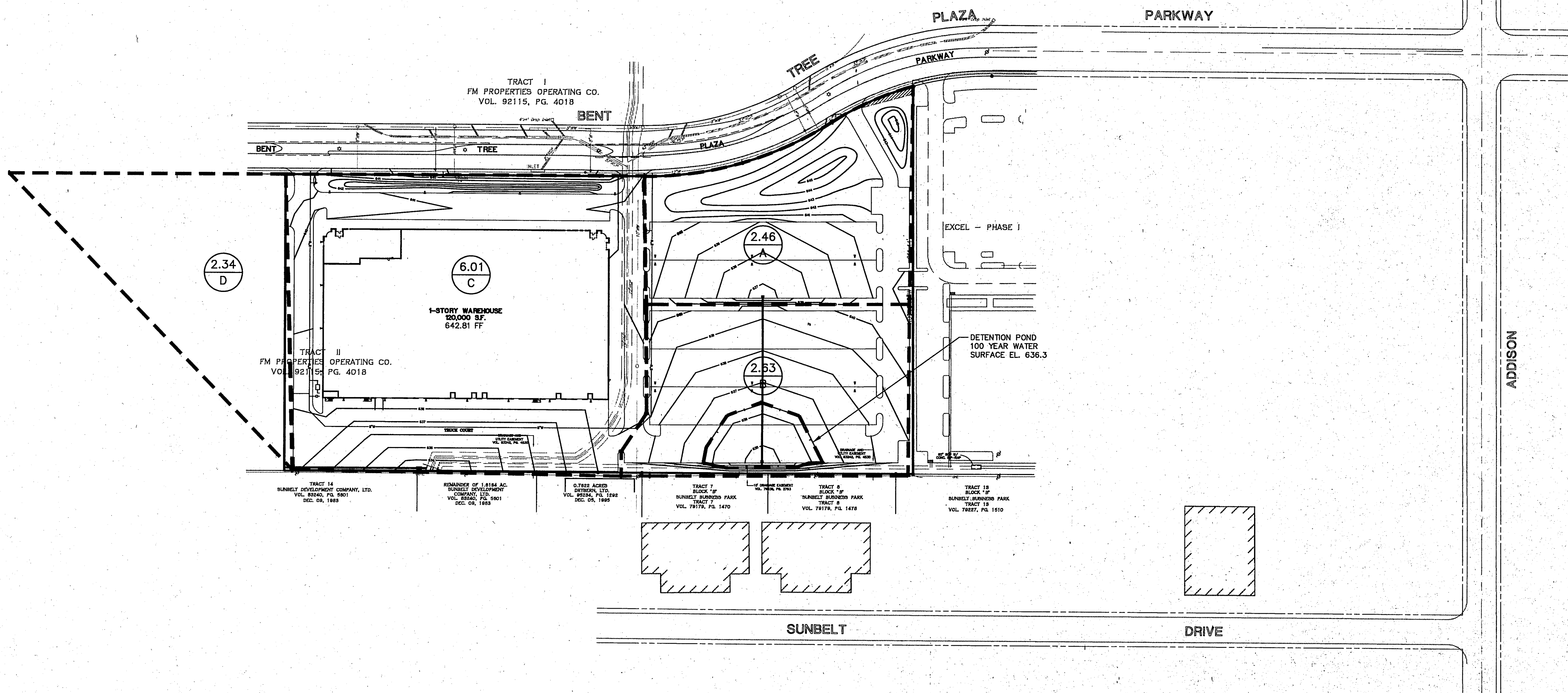
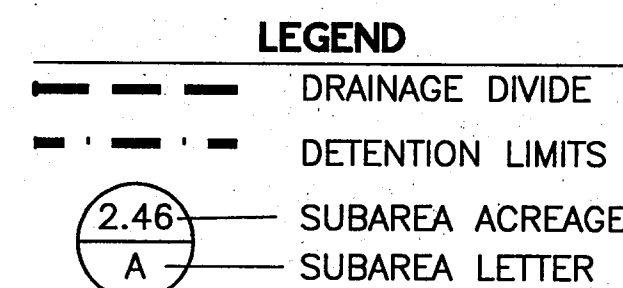


GRATE INLET FLOW CALCULATION

$$Q = 4.86 A y^{3/2}$$

WHERE:
 Q = FLOW INTO INLET(CFS)
 A = AREA OF OPENING IN GRATES(SQ.FT.)
 y = DEPTH OF WATER ABOVE INLET(FT.)

2-4'x4' INLETS FOR AREA C 3'x3' INLETS FOR AREA A AND B
 $57 = 4.86 \times 16 y^{3/2}$ $25 = 4.86 \times 9 y^{3/2}$
 $y = 0.53'$ $y = 1.31'$



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DRAINAGE AREA MAP

EXCEL TELECOMMUNICATIONS WAREHOUSE
 A DEVELOPMENT OF
WILCOX/CMC ADDISON, INC.

Scale: 1"=100' Date: 03/22/96
 Title: 02702EBA, 02702PBA
 File: 02702DMA.DWG
 Drawn By: C.D.R.
 Approved by: O.L.V.
 Project No.: 3027-02