DETENTION COMPUTATIONS

		Unit	AREA A		AREA B		AREA C		TOTALS
DRAINAGE AREA (AREA)		SF	131,634		74,632		41,989		248,155
		AC	3.0		1.7		1.0		5.7
AVERAGE RUNOFF COEFFICIENT	Impervious x .9	SF	50,712	54,541	Impervious x .9	42,820 38,538	Impervious x .9	8,456 7,937	
IMPERVIOUS AREA			Impervious x .2		Pervious x .2		Pervious x .2		
PERVIOUS AREA		SF	70,922	14,194	Pervious	31,812 6,362	Pervious	33,403 6,681	
	Total		121,634	58,825	Total	44,900	Total	14,319	
AVERAGE RUNOFF COEFFICIENT (R)		%		52.29%		50.15%		34.18%	
DETENTION REQUIRED			Area x 4.3/12 x R	CF		24,562		5,131	
100 YEAR VOLUME		CF	Area x 3.1/12 x 0.2	CF		5,801		2,164	
10 YEAR VOLUME		CF	Total Required	CF		17,861		2,966	33,051
DETENTION PROVIDED		CF	Elev.	789.6	Volume	19,592	Elev. Volume	787.0 15,725	785.3 3,202	37,520
FIRST FLUSH REQUIRED	Area x 5/12 x R	CF		787.5	2,969	785.4	1,971	784.1	597	5,335
BANKFULL REQUIRED	Area (AC) x 5160 x CF			788.5	8,153	785.9	5,319	784.6	1,696	15,168
ALLOWABLE OUTFLOW	Q = Area x .2 c/s c/s				0.60		0.34		0.19	1.14
	Plus preceding areas				0.50		0.95		0.19	
OUTLET SIZE	A = O/C sq. ft.								1.14	
	h =			2.6		2.0		1.3		
	Orifice area	SF		0.0753		0.1346		0.2008		
	Orifice diameter	IN		3.7		5.0		6.1		

Note:
Three places have been identified where the existing sanitary sewer 1:1 influence area extends beyond the sanitary sewer easement and could effect the foundations of the proposed buildings. Several possible solutions are being explored. The issue will be resolved during the construction plan approval phase.

WATER LEAD LEGEND

FP - FIRE PROTECTION
D - DOMESTIC
< SIAMESE CONNECTION

Δ = 06°28'21"
R = 687.92'
L = 77.71'
CH = N40°19'50"E
77.67'

Area of Dedication

Δ = 05°12'04"
R = 939.43'
L = 85.28'
CH = N40°49'00"E
85.25'

Δ = 23°30'02"
R = 171.89'
L = 70.50'
CH = S77°08'00"E
70.01'

LOCATION MAP
(NO SCALE)

PLATT RD.
WASHTENAW AVE.
S. HURON
PARKWAY
SITE
CHALMERS DR.

COBBLE/FIELD STONE DIKE DETAIL - R-13
NO SCALE

FRENCH DRAIN DETAIL
NO SCALE

OUTLET AT WATER DETAILS
NO SCALE

TRACKING SURFACE
NO SCALE

R-8
R-10, R-12
R-13

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SECTION 35
TOWN 2 SOUTH, RANGE 6 EAST
CITY OF ANN ARBOR
WASHTENAW COUNTY, MICHIGAN

CAD FILE 2788SP01

REVISIONS
5-25-97 PER CITY REVIEW
5-28-97 PER CITY REVIEW

DATE 4-14-97
SCALE 1" = 50 FEET (0, 25, 50)
DR. JB CH. MB
BOOK --
JOB 42788
FILE NO. 134-41-E-2

ATWELL-HICKS, INC.
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