

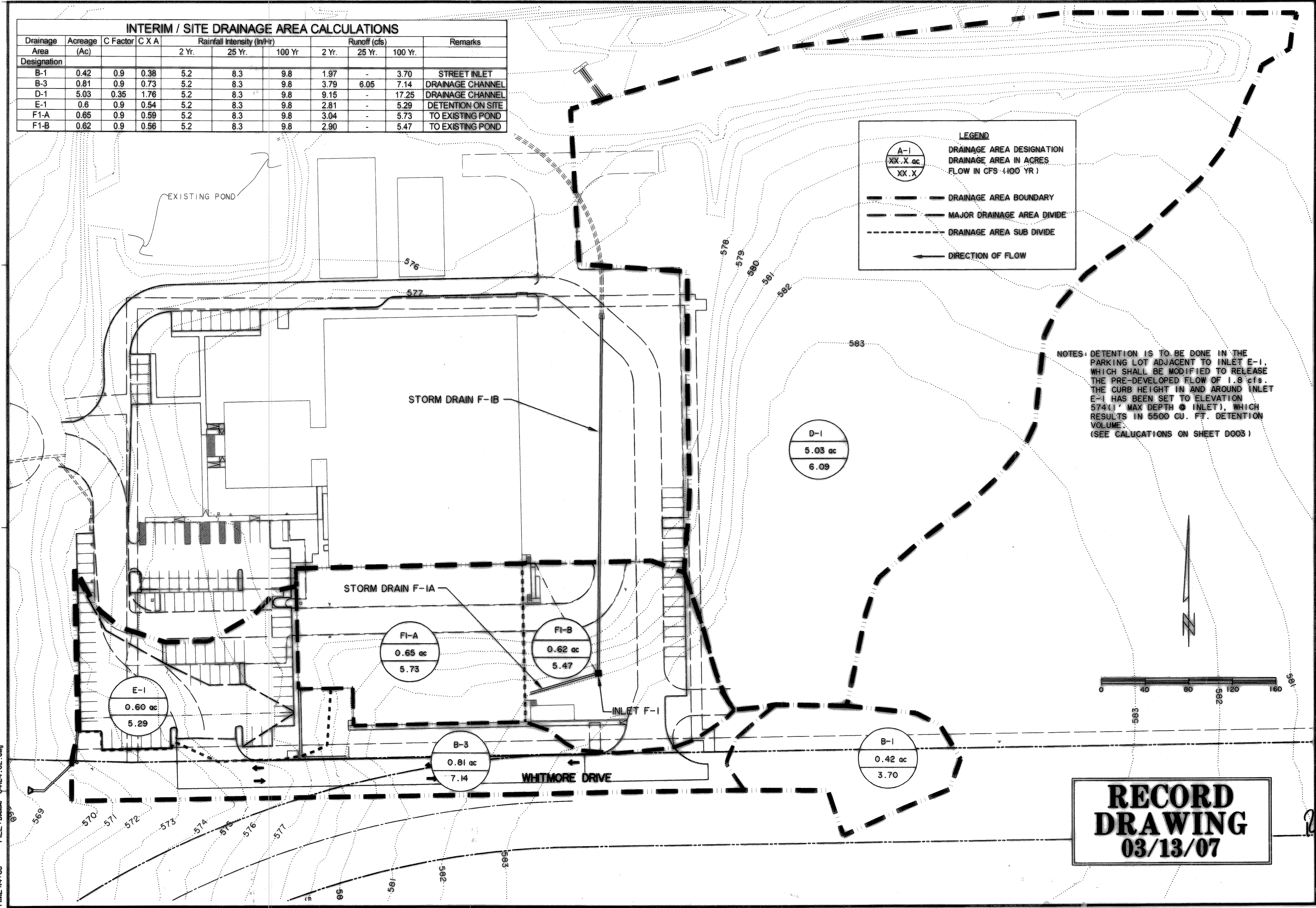
INTERIM / SITE DRAINAGE AREA CALCULATIONS

Drainage Area Designation	Acreage (Ac)	C Factor	C X A	Rainfall Intensity (In/Hr)			Runoff (cfs)			Remarks
				2 Yr.	25 Yr.	100 Yr.	2 Yr.	25 Yr.	100 Yr.	
B-1	0.42	0.9	0.38	5.2	8.3	9.8	1.97	-	3.70	STREET INLET
B-3	0.81	0.9	0.73	5.2	8.3	9.8	3.79	6.05	7.14	DRAINAGE CHANNEL
D-1	5.03	0.35	1.76	5.2	8.3	9.8	9.15	-	17.25	DRAINAGE CHANNEL
E-1	0.6	0.9	0.54	5.2	8.3	9.8	2.81	-	5.29	DETENTION ON SITE
F1-A	0.65	0.9	0.59	5.2	8.3	9.8	3.04	-	5.73	TO EXISTING POND
F1-B	0.62	0.9	0.56	5.2	8.3	9.8	2.90	-	5.47	TO EXISTING POND

LEGEND

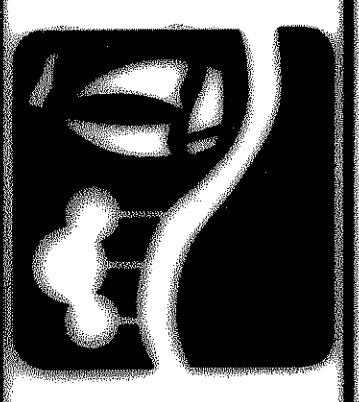
- DRAINAGE AREA DESIGNATION
- DRAINAGE AREA IN ACRES
- FLOW IN CFS (100' YR)
- DRAINAGE AREA BOUNDARY
- MAJOR DRAINAGE AREA DIVIDE
- DRAINAGE AREA SUB DIVIDE
- DIRECTION OF FLOW

NOTES: DETENTION IS TO BE DONE IN THE PARKING LOT ADJACENT TO INLET E-1, WHICH SHALL BE MODIFIED TO RELEASE THE PRE-DEVELOPED FLOW OF 1.8 cfs. THE CURB HEIGHT IN AND AROUND INLET E-1 HAS BEEN SET TO ELEVATION 574(1' MAX DEPTH @ INLET), WHICH RESULTS IN 5500 CU. FT. DETENTION VOLUME. (SEE CALCULATIONS ON SHEET D003)



**RECORD
DRAWING
03/13/07**

PREPARED BY:
VIA WIER & ASSOCIATES, INC.
ENGINEERS SURVEYORS LAND PLANNERS
4300 BELLEVUE PLACE SUITE 130 ARLINGTON, TEXAS 76018 METRO (817)467-7700
1380 U.S. HIGHWAY 287 N. SUITE 101 WAXFIELD, TEXAS 76063 METRO (817)477-0700
6848 ELM STREET FRODO, TEXAS 75034 METRO (214)387-8800
www.via-wier.com



CITY OF
ROCKWALL
WHITMORE EXPANSION

INTERIM / SITE
DRAINAGE AREA
MAP

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
RONALD RAMIREZ
81821
DATE: 03/13/2007
WAX 04124.02
SHEET NO.
D001

TIME 14:03 FILE: DAMAP-04124_02.dwg