



DRAINAGE CALCULATIONS						
AREA	ACRES	C	Tc	I	Q	REMARKS
1	0.67	0.90	10	9.80	5.87	DETENTION POND
2	0.23	0.90	10	9.80	1.00	DETENTION POND
3	0.25	0.90	10	9.80	2.20	DETENTION POND
4	0.73	0.90	10	9.80	6.50	DETENTION POND
5	0.14	0.90	10	9.80	1.10	EX. 27" RCP
6	0.57	0.90	10	9.80	4.40	EX. 27" RCP
7	0.14	0.90	10	9.80	1.10	TOWNSEND LANE
8	0.57	0.90	10	9.80	4.40	DETENTION POND
A	2.66	0.90	10	9.80	23.5	EX. 27" RCP
B	2.90	0.90	10	9.80	25.6	INLET 1

INLET CALCULATION CHART												
INLET LOCATION		Design Storm Frequency	Time of Rise	AREA DRAINING TO INLET	Runoff Coefficient	Area in Acres	Runoff (cfs)	Conv. Over From Upstream Inlet (CFS)	Total Outfall Flow (CFS)	Outfall Slope	Street Capacity	Open Type
No.	STREET NAME	(YRS)	(MIN)	(SQ FT)	"	"	"	(CFS)	(CFS)	(%)	(CFS)	(TYPE)
1*	SOUTH ACCESS DRIVE	100	20	8.20	0.30	2.90	7.13	0	7.13	0.80	N.A.	4"x4" DRGP
2	SOUTH PROPERTY LINE	100	10	9.80	0.90	0.14	1.23	0	1.23	2.00	N.A.	3"x3" DRGP

Bench Mark 1  
 A Standard U.S.C.&G.S. Disk Stamped 'M 929 1946'  
 Approx. 1.9 miles southeast along State Hwy. 205  
 from Courthouse at Rockwall to bridge at Buffalo  
 Creek, at the northwest corner of the concrete  
 bridge in the top of the concrete guardrail base  
 approx. 17 feet southwest of the centerline of the  
 highway, and approx. 3 feet southeast of the northwest  
 end of the guardrail base.  
 Elevation = 524.65

Bench Mark 2  
 Top of Concrete ROW Marker, approx. 1.6 miles  
 southeast along State Hwy. 205 and then approx.  
 0.6 miles east along FM 276 to intersection of  
 paved road, at fence corner at southwest quadrant  
 of intersection.  
 Elevation = 543.10

**RECORD DRAWING**  
**8/10/2006**

**DRAINAGE AREA PLAN**  
**THE LARSEN SCHOOL ADDITION**  
**CITY OF ROCKWALL, TEXAS**

**TIPTON ENGINEERING, INC.**  
 6330 Broadway Blvd. ~ Suite C ~ Garland, Texas 75043

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TEI, Inc.	TEI, Inc.	8-2004	1"=20'			<b>3</b>



SEE SHEET 7 FOR ACCESS DRIVE

4767DA 12-21-04