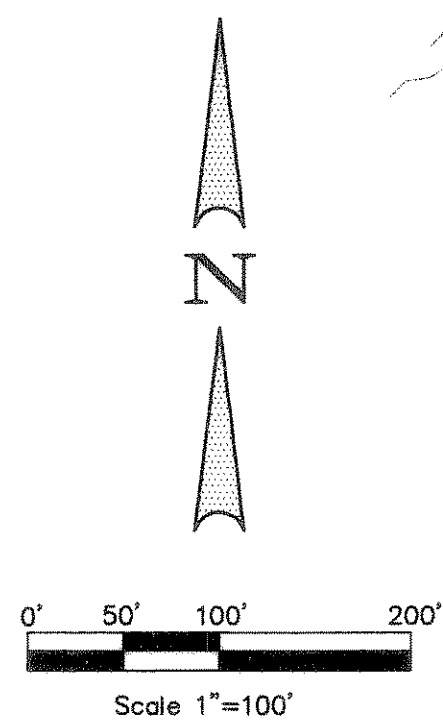


OFF-SITE DRAINAGE (From Phase 5A)

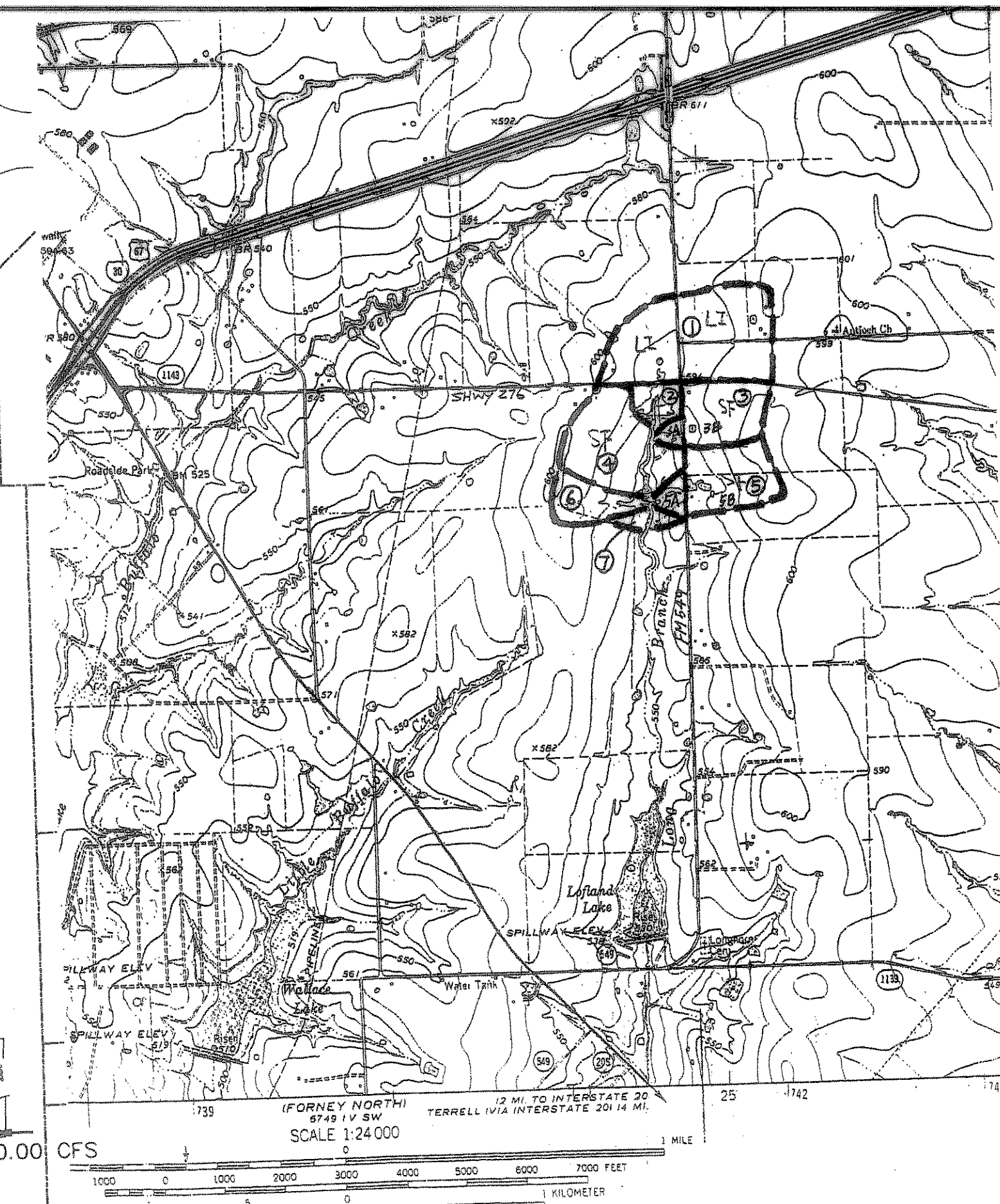
Design No.	AREA RUNOFF Q = CIA					
	Storm Frequency (yrs.)	Time of Conc. (min.)	Intensity (in./hr.)	Runoff Coeff. "C"	Area (ac.)	"Q" (c.f.s.)
1	3	4	5	6	7	8
1A	100	10	9.8	0.50	0.98	4.80
1B	100	10	9.8	0.50	1.04	5.10
2A	100	10	9.8	0.50	0.80	3.92
2B	100	10	9.8	0.50	1.89	9.26
2C	100	10	9.8	0.50	1.74	8.53
2D	100	10	9.8	0.50	1.86	9.11
3A	100	10	9.8	0.50	1.21	5.93
7A	100	10	9.8	0.50	1.41	6.91

LEGEND

- AREA DESIGNATION
- AREA IN ACRES
- FLOW ARROWS
- PROPOSED INLETS
- PROPOSED STORM SEWER SYSTEM
- DRAINAGE AREA BOUNDARY
- EX. INLETS
- EX. STORM SEWER
- EXIST. CONTOURS
- PROP. CONTOURS
- LOFLAND FARMS-PHASE 5A



STATE HIGHWAY NO. 276
(120' Right-of-Way)



OFF-SITE DRAINAGE (REFER TO FLOOD STUDY BY WINKELMANN & ASSOCIATES, INC.)

ON-SITE DRAINAGE

Design No.	AREA RUNOFF Q = CIA					
	Storm Frequency (yrs.)	Time of Conc. (min.)	Intensity (in./hr.)	Runoff Coeff. "C"	Area (ac.)	"Q" (c.f.s.)
1	3	4	5	6	7	8
1A	100	10	9.8	0.50	1.00	4.90
1B	100	10	9.8	0.50	1.62	7.94
2A	100	10	9.8	0.50	1.43	7.01
2B	100	10	9.8	0.50	0.19	0.93
2C	100	10	9.8	0.50	1.17	5.73
3A	100	10	9.8	0.50	1.19	5.83
3B	100	10	9.8	0.50	1.52	7.45
4A	100	10	9.8	0.50	0.82	4.02
4B	100	10	9.8	0.50	0.80	3.92
4C	100	10	9.8	0.50	1.17	5.73
4D	100	10	9.8	0.50	1.37	6.71
5A	100	10	9.8	0.50	1.75	8.58
6A	100	10	9.8	0.50	1.29	6.32
7A	100	10	9.8	0.50	1.78	8.72
7B	100	10	9.8	0.50	0.39	1.91
7C	100	10	9.8	0.50	1.06	5.19
7D	100	10	9.8	0.50	0.36	1.76
8A	100	10	9.8	0.50	1.99	9.75
8B	100	10	9.8	0.50	0.50	2.45
8C	100	10	9.8	0.50	1.04	5.10
9A	100	10	9.8	0.50	0.68	3.33
10A	100	10	9.8	0.50	0.67	3.28
11A	100	10	9.8	0.50	0.46	2.25

NOTE:
REFER TO "LONG BRANCH - ROCKWALL, TEXAS
FLOODPLAIN STUDY REPORTS" BY WINKELMANN
& ASSOCIATES, INC. DATED MARCH 19, 2003
FOR LONG BRANCH FLOOD STUDY.

BENCHMARK:
CITY OF ROCKWALL R-19
BRASS MONUMENT AT THE N/W CORNER OF
SILVERVIEW & DIAMOND WAY. 500' ± SOUTH OF
S.H. 276.
ELEV. = 600.69

BENCHMARK:
R.R. SPIKE SET IN THE CENTERLINE OF
S.H. 276
3600± WEST OF F.M. 549
ELEV. = 583.56

THESE CONSTRUCTION PLANS WERE PREPARED
UNDER THE RESPONSIBLE SUPERVISION OF
MD. NAIM UDDIN KHAN, REGISTERED PROFESSIONAL
ENGINEER NO. 87776

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
MD. NAIM UDDIN KHAN, # 87776

APPROVED: _____
REVISION: _____
NO. _____ DATE _____

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Beverly Hills, CA 90212
(310) 461-1999 Fax
www.winkelman.com

LOFLAND FARMS, PHASE 5B
BAIRD SURVEY, ABSTRACT NO. 25
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
D.R. HORTON
4306 MILLER ROAD, SUITE-A
ROWLETT, TEXAS 75088

DRAINAGE AREA MAP
LOFLAND FARMS, PHASE 5-B

Scale: 1"=100'
Date: 6-30-04
Designed By: RB
Drawn By: MS
Checked By: NK
File: 320045B04M.DWG
Project No.: 32004-01

SHEET
1
OF
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