

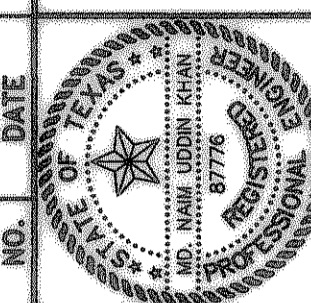
INLET DESIGN CALCULATIONS			PROJECT NAME <u>LOFLAND FARMS, PHASE 5-A</u>										BY <u>N.K.</u>			
			LINE NAME <u>N/A</u>										DATE <u>8/8/02</u>			
No.	Inlet Location/Comments	Design Storm Frequency (yrs.)	AREA RUNOFF Q = CIA					Carry-Over From Upstream Inlet (c.f.s.)	Total Gutter Flow (c.f.s.)	Gutter Capacity (c.f.s.)	Gutter Slope (%)	Crown Type	SELECTED INLET			Carry-Over To Downstream Inlet (c.f.s.)
			Time of Conc. (min.)	Intensity I (in./hr.)	Runoff Coeff. "C"	Area (ac.)	"Q" (c.f.s.)						Length "L" (Feet)	Inlet Capacity (c.f.s.)	Type	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1A	STA. 12+96.99 ALLEY 1 (6.5' RT.)	100	10	9.8	0.50	0.98	4.80	0	4.80	5.77	0.60	5" INVERT	10	6.90	C.I.	0
1B	STA. 9+46.88 ALLEY 1 (6.5' RT.)	100	10	9.8	0.50	1.04	5.10	0	5.10	7.81	1.10	5" INVERT	10	6.30	C.I.	0
1C	TO FUTURE PHASE	100	10	9.8	0.50	0.63	3.09	0	3.09	-	-	-	-	-	-	0
2A	STA. 3+16.75 AVERY DRIVE (14.5' LT.)	100	10	9.8	0.50	0.80	3.92	0	3.92	17.17	2.00	6" PARABOLIC	10	5.40	C.I.	0
2B	STA. 3+16.75 AVERY DRIVE (14.5' RT.)	100	10	9.8	0.50	1.89	9.26	0	9.26	17.17	2.00	6" PARABOLIC	15	9.00	C.I.	0.26
2C	STA. 0+53.37 HARVESTER COURT (14.5' LT.)	100	10	9.8	0.50	1.74	8.53	0	8.53	9.41	0.60	6" PARABOLIC	15	10.20	C.I.	0
2D	STA. 2+09.73 HARVESTER DRIVE (14.5' RT.)	100	10	9.8	0.50	1.86	9.11	0	9.11	9.41	0.60	6" PARABOLIC	15	10.20	C.I.	0
2E	TO FUTURE PHASE	100	10	9.8	0.50	1.00	4.90	0.26	5.16	-	-	-	-	-	-	5.16
3A	STA. 6+40.53 ALLEY 8 (6.5' LT.)	100	10	9.8	0.50	1.21	5.93	0	5.93	11.71	2.47	5" INVERT	10	5.60	C.I.	0.33
4A	STA. 7+57.79 ALLEY 6 (6.5' LT.)	100	10	9.8	0.50	1.40	6.86	0	6.86	9.00	1.46	5" INVERT	10	6.00	C.I.	0.86
5A	STA. 0+97.86 ALLEY 7 (6.5' RT.)	100	10	9.8	0.50	1.80	8.82	0	8.82	12.26	2.71	5" INVERT	15	9.30	C.I.	0
6A	STA. 0+67.05 McCORMICK COURT (14.5' RT.)	100	10	9.8	0.50	1.64	8.04	0	8.04	18.61	2.35	6" PARABOLIC	15	8.75	C.I.	0
6B	STA. 0+67.05 McCORMICK COURT (14.5' LT.)	100	10	9.8	0.50	0.80	3.92	0	3.92	18.61	2.35	6" PARABOLIC	10	5.30	C.I.	0
7A	STA. 23+80 GLEANER DRIVE (14.5' RT.)	100	10	9.8	0.50	1.36	6.66	1.14	7.80	-	SAG	6" PARABOLIC	5	10.50	C.I.	0
7B	STA. 23+80 GLEANER DRIVE (14.5' LT.)	100	10	9.8	0.50	2.44	11.96	0.18	12.14	-	SAG	6" PARABOLIC	10	21.00	C.I.	0
7C	STA. 0+45.50 ALLEY 6 (6.5' RT.)	100	10	9.8	0.50	1.00	4.90	0	4.90	9.00	1.46	5" INVERT	10	6.10	C.I.	0
7D	STA. 3+09.88 ALLEY 6 (6.5' RT.)	100	10	9.8	0.50	1.59	7.79	0.86	8.65	12.90	3.00	5" INVERT	15	9.20	C.I.	0
8A	STA. 6+57.62 ALLEY 4 (6.0' RT.)	100	10	9.8	0.50	1.13	5.54	0	5.54	-	SAG	5" INVERT	5	10.60	C.I.	0
9A	STA. 3+26.55 ALLEY 4 (6.5' RT.)	100	10	9.8	0.50	1.10	5.39	0	5.39	11.25	2.28	5" INVERT	5	10.60	C.I.	0
10A	STA. 15+39.71 MASSEY LANE (14.5' RT.)	100	10	9.8	0.50	2.09	10.24	0	10.24	16.20	1.78	6" PARABOLIC	15	9.10	C.I.	1.14
10B	STA. 15+39.71 MASSEY LANE (14.5' LT.)	100	10	9.8	0.50	1.18	5.78	0	5.78	16.20	1.78	6" PARABOLIC	10	5.60	C.I.	0.18
10C	STA. 11+91.46 HARVESTER DRIVE (14.5' RT.)	100	10	9.8	0.50	2.34	11.47	0	11.47	12.14	1.00	6" PARABOLIC	20	14.00	C.I.	0
11A	STA. 1+57.84 FARMALL WAY (21.31' LT.)	100	10	9.8	0.50	0.60	2.94	0	2.94	-	SAG	-	2'X2'	8.00	TYPE "Y"	0
12A	TO CREEK	100	10	9.8	0.90	0.51	4.50	0	-	-	-	-	-	-	-	-

- 100-YR DESIGN FREQUENCY SHALL NOT EXCEED A DEPTH OF 1 1/2" OVER TOP OF CURB IN STREET.
- 100-YR DESIGN FREQUENCY SHALL NOT EXCEED THE CAPACITY OF ALLEY PAVEMENT.
- DRAINAGE TRIBUTARY TO BE HANDLED BY FUTURE STORM SEWER SYSTEM
- * 4. PONDING DEPTH OF TYPE "Y" INLET IS 0.50'

ASBUILT
 Winkelmann & Associates, Inc. hereby states that this plan, to the best of our knowledge is "AS BUILT." Modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.
 Winkelmann & Associates, Inc. 5/14/04
 DATE

THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF MD. NAIM UDDIN KHAN, REGISTERED PROFESSIONAL ENGINEER NO. 87776
 W.H. BAIRD SURVEY, ABSTRACT NO. 25
 CITY OF ROCKWALL, TEXAS
 ROCKWALL COUNTY, TEXAS
 CONTINENTAL HOMES
 621 WEST COLLEGE STREET
 GRAPEVINE, TEXAS 76051

NO. _____ DATE _____ REVISION _____ APPROV. _____



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 www.winkelmanna.com

DRAINAGE CALCULATIONS
LOFLAND FARMS, PHASE 5-A

Scale : 1"=100' Date : 04-01-03
 Designed By : GB
 Drawn By : GB
 Checked By : NK
 File : 320045ADAMDWG
 Project No. : 32004.01

BENCHMARK: ELEV. = 600.69
 CITY OF ROCKWALL R-19
 BRASS MONUMENT AT THE N/W CORNER OF
 SILVERVIEW & DIAMOND WAY, 500' ± SOUTH OF
 S.H. 276.
 BENCHMARK: ELEV. = 583.56
 R.R. SPIKE SET IN THE CENTERLINE OF S.H. 276
 3600± WEST OF F.M. 549