

INLET DESIGN CALCULATIONS		PROJECT NAME		STATE HIGHWAY 205 BYPASS										BY		R.B.	
		LINE NAME		N/A										DATE		11/28/01	
No.	Inlet Location	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 (ft./100ft.)	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	
A1	STA. 14+20.69 S.H. 205 (LT.)	100	10	9.8	0.87*	3.72	31.72	0	31.72	SAG	SAG	1/4"/FT.	15'	32.0	C.I.	0	
A4	STA. 0+96.25 S.H. 205 (LT.)	100	10	9.8	0.50	3.31	16.22	0	N/A	N/A	N/A	N/A	2'x2'	22.0	TYPE "Y"	0	
A7	STA. 0+76.94 S.H. 205 (LT.)	100	10	9.8	0.90	0.54	4.76	0	4.76	18.28	0.84	1/4"/FT.	10'	5.80	C.I.	0	

\*WEIGHTED "C" FACTOR

LATERAL/LINE CALCULATIONS		PROJECT NAME		STATE HIGHWAY 205 BYPASS										BY		R.B.	
		LINE/LATERAL DESCRIPTION												DATE		11/28/01	
No.	LINE/LATERAL DESCRIPTION	Design Storm Frequency (yrs.)	AREA RUNOFF Q = CIA					COMMENTS									
			Time of Conc. (min.)	Intensity I (in./hr.)	Runoff Coeff. "C"	Area (ac.)	"Q" (c.f.s.)										
1	2	3	4	5	6	7	8										
A2	LATERAL "2-A" (RT.)	100	10	9.8	0.90	3.76	33.16	24" RCP TO FUTURE INLET									
A3	LATERAL "2-E" (RT.)	100	10	9.8	0.80	3.24	25.40	27" RCP TO FUTURE FIRE STATION									
A5	STA. 0+40 LINE "2" S.H. 205	100	10	9.8	0.50	1.68	8.23	21" RCP IN S.H. 276									
A6	STA. 8+67.56 LINE "2"	100	10	9.8	0.80	3.67	28.77	24" RCP FOR FUTURE DEVELOPMENT									
A8	EXISTING 21" RCP	100	10	9.8	N/A	N/A	33.31	CONNECTING TO 21" RCP FROM SCHOOL SITE									
A9	LATERAL "2-C"	100	10	9.8	N/A	N/A	55.77	CONNECTING TO EXIST. 36" RCP FROM SCHOOL SITE									

THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON, JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY F.E. MIDDLETON, JR., P.E. #67449

*F.E. Middleton Jr.* 6-2-02

W.H. BAIRD SURVEY, ABSTRACT NO. 25  
CITY OF ROCKWALL  
ROCKWALL COUNTY, TEXAS  
CONTINENTAL HOMES  
621 WEST COLLEGE STREET  
GRAPEVINE TEXAS, 75051

STATE HIGHWAY 205 BYPASS  
DRAINAGE CALCULATIONS

Scale : 5-14-02  
Date : 5-14-02  
Designed By : RB  
Drawn By : MK  
Checked By : FEM  
File : 320060AM.dwg | View :  
Project No. : 32006.01

ASSULT  
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.  
*F.E. Middleton Jr.* 12-19-02  
WINKELMANN & ASSOCIATES, INC. DATE

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

SHEET  
2  
OF  
12

REVISION

DATE

APPROV.

**Winkelmann & Associates, Inc.**  
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