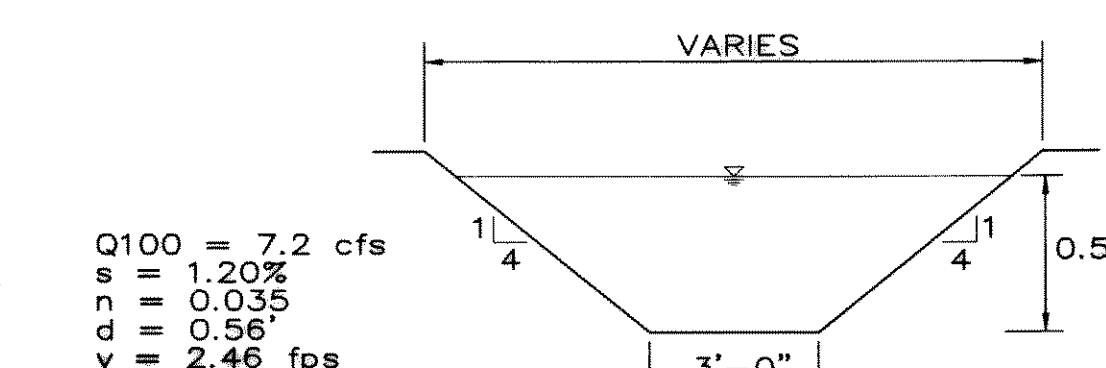
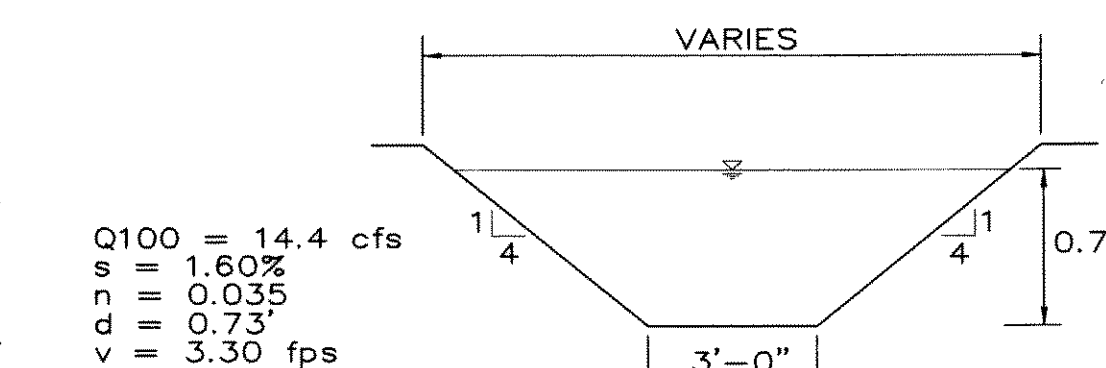
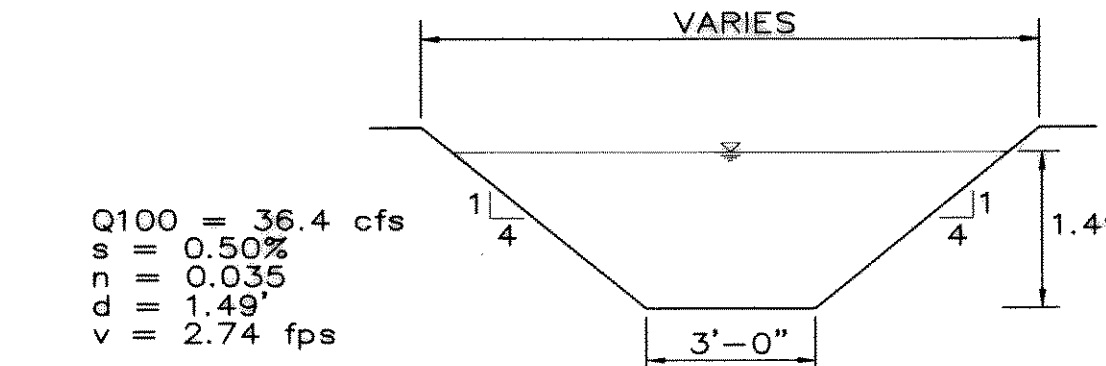


NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	INTENSITY I (IN./HR.)	AREA RUNOFF		BY-PASS FROM UPSTREAM INLET (C.F.S.)	TOTAL GUTTER OR INVERT FLOW (C.F.S.)	STREET OR ALLEY CAPACITY (C.F.S.)	GUTTER OR INVERT SLOPE (%)	CROWN OR INVERT SIZE	SELECTED INLET LENGTH (L) (FEET)	INLET TYPE	INTERCEPTED FLOW BY INLET (C.F.S.)	BY-PASS TO DOWNSTREAM INLET (C.F.S.)	
					COEFF. "C"	"Q" (C.F.S.)										
1	STA 0+48 ALLEY "D"	100	10	9.80	0.50	2.28	11.2	0.0	11.2	13.7	3.40	5' INVERT	1-15	SID	9.0	2.2
2	STA 0+52 CLEAR CREEK DRIVE	100	10	9.80	0.50	0.57	2.8	0.0	2.8	10.5	3.20	6" CROWN	1-10	SID	8.8	2.8
3	STA 0+52 CLEAR CREEK DRIVE	100	10	9.80	0.50	2.04	10.0	0.0	10.0	10.5	3.20	6" CROWN	1-15	SID	9.4	0.6
4	STA 8+40 WALNUT RIDGE DRIVE	100	10	9.80	0.50	1.47	7.2	0.0	7.2	6.7	1.00	6" CROWN	1-10	SID	7.1	0.1
5	STA 11+37 WALNUT RIDGE DRIVE	100	10	9.80	0.50	0.87	4.3	0.0	4.3	-----	-----	-----	-----	-----	-----	-----
6	STA 11+37 WALNUT RIDGE DRIVE	100	10	9.80	0.50	1.56	7.6	4.2	11.8	-----	-----	-----	-----	-----	-----	-----
7	STA 0+52 DEER RIDGE DRIVE	100	10	9.80	0.50	1.77	8.7	0.0	8.7	11.1	3.60	6" CROWN	1-15	SID	9.3	8.7
8	STA 0+52 DEER RIDGE DRIVE	100	10	9.80	0.50	1.92	9.4	0.0	9.4	9.4	2.60	6" CROWN	1-15	SID	9.7	9.4
9	STA 0+48 ALLEY "E"	100	10	9.80	0.50	1.96	9.6	0.0	9.6	13.7	3.40	5' INVERT	1-15	SID	9.0	0.6
10	STA 16+47 WALNUT RIDGE DRIVE	100	10	9.80	0.50	0.41	2.0	0.0	2.0	9.5	2.00	6" CROWN	1-10	SID	6.5	2.0
11	STA 16+47 WALNUT RIDGE DRIVE	100	10	9.80	0.50	1.04	5.1	3.7	8.8	9.5	2.00	6" CROWN	1-15	SID	10.8	8.8
12	STA 1+59 ALLEY "F"	100	10	9.80	0.50	2.66	13.0	0.0	13.0	12.3	2.70	5' INVERT	1-15	SID	9.3	3.7
13	STUB-OUT FOR PHASE 3	100	10	9.80	0.50	2.20	10.8	0.0	10.8	-----	-----	-----	-----	-----	-----	-----
14	STA 20+42 WALNUT RIDGE DRIVE	100	10	9.80	0.50	1.02	5.0	2.5	7.5	7.7	1.30	6" CROWN	1-15	SID	11.7	7.5
15	STUB-OUT FOR PHASE 3	100	10	9.80	0.50	2.06	10.1	0.0	10.1	-----	-----	-----	-----	-----	-----	-----
16	STA 0+53 TANGLELEN DRIVE	100	10	9.80	0.50	1.20	5.9	1.0	6.9	10.1	3.00	6" CROWN	1-15	SID	9.5	6.9
17	STA 5+07 TANGLELEN DRIVE	100	10	9.80	0.50	0.80	3.9	0.2	4.1	4.1	0.50	6" CROWN	1-5	SID	3.1	3.1
18	STA 6+00 TANGLELEN DRIVE	100	10	9.80	0.50	0.78	3.8	0.0	3.8	4.1	0.50	6" CROWN	1-5	SID	3.1	0.7
20	STA 8+45 TANGLELEN DRIVE	100	10	9.80	0.50	2.34	11.5	0.0	11.5	11.7	4.00	6" CROWN	1-20	SID	13.0	11.5
21	STA 11+29 BROOKDALE DRIVE	100	10	9.80	0.50	0.60	2.9	0.0	2.9	4.1	0.50	6" CROWN	1-5	SID	3.1	2.9
22	STA 0+43 ALLEY "I"	100	10	9.80	0.50	1.37	6.7	0.0	6.7	14.6	3.84	5' INVERT	1-15	SID	9.0	6.7
23	STA 8+27 DEER RIDGE DRIVE	100	10	9.80	0.50	0.78	3.8	0.0	3.8	9.4	2.60	6" CROWN	1-10	SID	5.9	3.8
24	STA 8+27 DEER RIDGE DRIVE	100	10	9.80	0.50	1.65	8.1	0.0	8.1	9.4	2.60	6" CROWN	1-15	SID	9.6	8.1
25	STA 8+29 BROOKDALE DRIVE	100	10	9.80	0.50	0.60	2.9	0.0	2.9	4.1	0.50	6" CROWN	1-5	SID	3.1	2.9
26	STA 0+43 ALLEY "J"	100	10	9.80	0.50	1.75	8.6	0.0	8.6	12.9	3.00	5' INVERT	1-15	SID	9.1	8.6
27	STA 8+35 BROOKDALE DRIVE	100	10	9.80	0.50	1.63	8.0	1.1	9.1	9.1	2.40	6" CROWN	1-15	SID	9.7	9.1
28	STA 9+14 CLEAR CREEK DRIVE	100	10	9.80	0.50	1.52	7.4	0.0	7.4	7.6	1.70	6" CROWN	1-10	SID	6.3	7.4
29	STA 9+11 CLEAR CREEK DRIVE	100	10	9.80	0.50	0.86	4.2	0.0	4.2	7.6	1.70	6" CROWN	1-10	SID	6.3	4.2

*: NOTE
 RATIONAL METHOD:

Q = CIA
 WHERE: OFF-SITE (UNDEVELOPED AREA)
 Q = DISCHARGE IN cfs
 C = RUN-OFF COEFFICIENT = 0.35
 I = RAINFALL INTENSITY IN in/hr = 9.8
 A = AREA IN ACRES
 $Q_{100} = (0.35)(9.8)A = 3.43A$



RATIONAL METHOD:

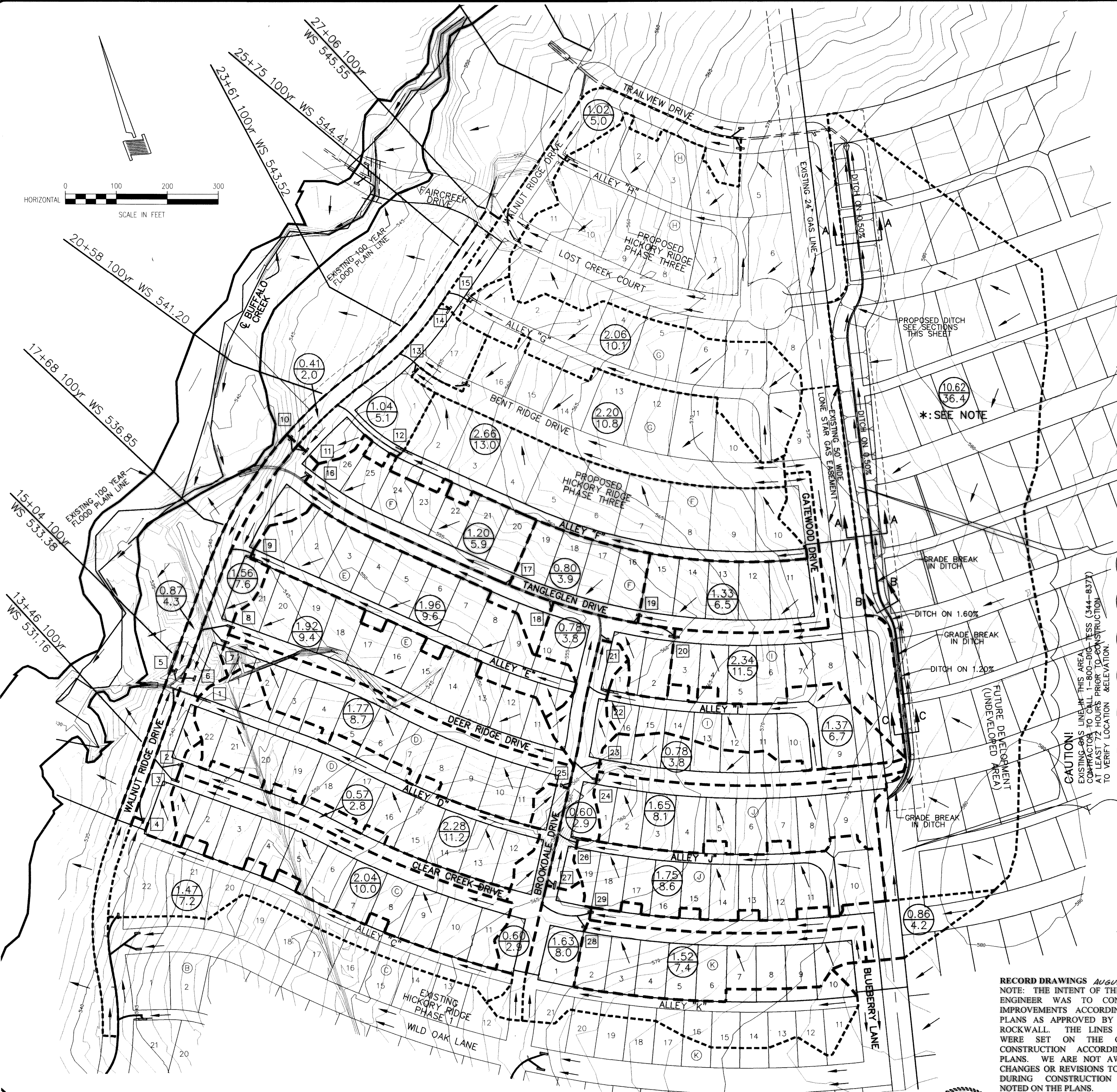
Q = CIA
 WHERE: ON-SITE
 Q = DISCHARGE IN cfs
 C = RUN-OFF COEFFICIENT = 0.5
 I = RAINFALL INTENSITY IN in/hr = 9.8
 A = AREA IN ACRES
 $Q_{100} = (0.5)(9.8)A = 4.9A$

- 1.15 ACRES
- 5.6 "Q" (C.F.S.) OR RUN-OFF
- 7 INLET #
- DRAINAGE AREA DIVIDE
- OFF-SITE & PROPOSED DRAINAGE AREA DIVIDE

DRAINAGE AREA MAP
HICKORY RIDGE - PHASE TWO
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

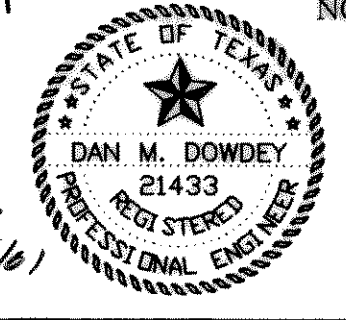
DOWDEY, ANDERSON & ASSOCIATES, INC.
 5225 VILLAGE CREEK DR., STE. 200 (972) 931-0694 PLANO, TEXAS

DESIGN	DRAWN	CHECKED	DATE	SCALE	JOB	SHEET
JDS	JDS	DD	MAR 2001	1"=100'	99066	1/1



RECORD DRAWINGS August 19, 2002
 NOTE: THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE IMPROVEMENTS ACCORDING TO THESE PLANS AS APPROVED BY THE CITY OF ROCKWALL. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. WE ARE NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED ON THE PLANS.

THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF DAN M. DOWDEY REGISTERED PROFESSIONAL ENGINEER No. 21433



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAN M. DOWDEY P.E. #21433

BENCHMARK: SQUARE CUT ON TOP OF HEADWALL AT THE MOST NORTHERLY CORNER OF BRIDGE. NORTHEASTERLY SIDE OF FM 205. 1680'± NORTHWEST OF CL OF MIMS ROAD. ELEV = 529.11

BENCHMARK: CITY OF ROCKWALL, TEXAS CONTROL MONUMENT #929. TOP OF HEADWALL IN NORTHWEST CORNER OF BRIDGE OVER SQUABBLE CREEK. SOUTHWESTERLY SIDE OF FM 205. ELEV = 524.55