

CAPACITY OF EX 48" RCP
 $CAP = \frac{1.49}{(0.013)} (12.5664)(1.000)(0.006)^{1/2}$
 CAP=111.6 cfs

CAPACITY OF EX 42" RCP
 $CAP = \frac{1.49}{(0.013)} (9.6212)(0.915)(0.006)^{1/2}$
 CAP=78.2 cfs

CAPACITY OF EX 30" RCP
 $CAP = \frac{1.49}{(0.013)} (4.9088)(0.731)(0.006)^{1/2}$
 CAP=31.9 cfs

TOTAL Q TO THIS POINT=98.2 cfs

TOTAL Q TO THIS POINT=87.7 cfs

TOTAL Q TO THIS POINT=35.1 cfs

EX 5"x5" INLET
 TOP=630.74
 THROAT=629.35
 FL=626.50

EX 5"x5" INLET
 TOP=631.6
 THROAT=630.23
 FL=626.85

EXISTING TRAFFIC
 SIGNAL

MAINSTAY SUITES OF ADDISON VOL.98237, PG.0037

LOT 1 BLOCK A

SUMMERFIELD SUITES HOTEL
 SUMMERFIELD/ARAPAHO/ADDISON VOL.95119, PG.4232

QUORUM CENTRE EAST NO. 2 VOL.96187, PG.1867

QUORUM CENTRE EAST NO. 1 VOL.95100, PG.3266

ADDISON ROAD QUORUM ADDITION VOL.73041, PG.2824 LOT 1

REFER TO SHEET C14 FOR CONCRETE APRON DETAIL

FF=633.0 RP=632.0

FF=634.0 RP=633.0

MARK A. ALBERT Vol. 97802, Pg. 3045

FF=441.00 RP=440.00

FF=637.5 RP=636.5

LOT 3 BELT LINE - QUORUM ADDITION VOL.91077, PG.4068

EXISTING RETAIL BLDG. CONTAINER STORE

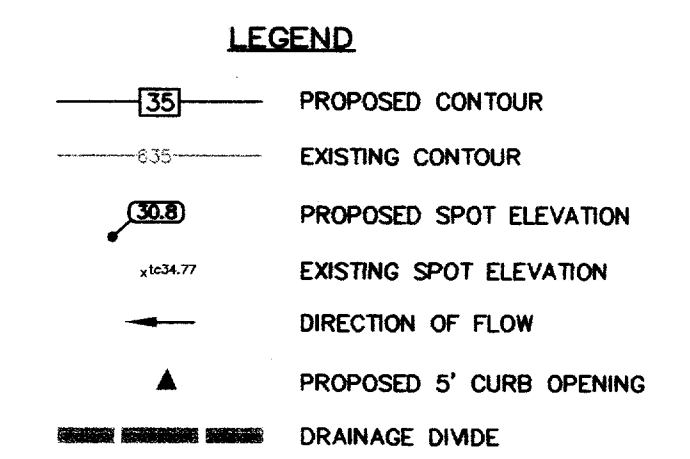
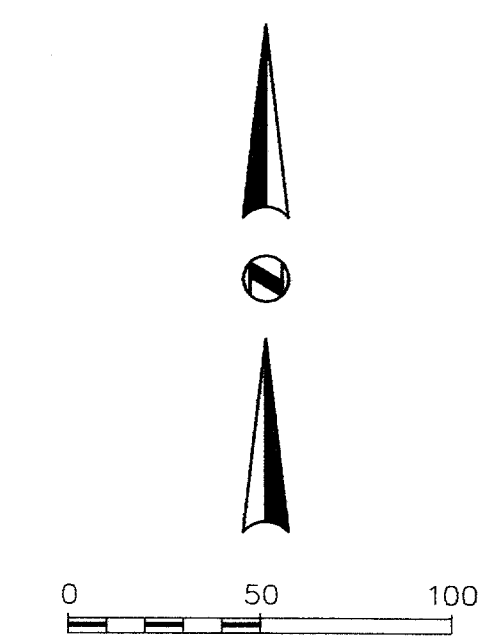
LOT 1 BELT LINE - QUORUM ADDITION VOL.91077, PG.4068

LOT 2 BELT LINE - QUORUM ADDITION VOL.91077, PG.4068

LOT 3 BELT LINE - QUORUM ADDITION VOL.91077, PG.4068

BELT LINE ROAD (100' R.O.W.)

EXISTING TRAFFIC
 SIGNAL



DRAINAGE CRITERIA
 Q=CIA
 C=0.90
 I100 = 8.74 in/hr
 AREA (acres) 1.0
 RUNOFF (cfs) 8.0

TRAVEL TIME FOR AREA C,D,L
 10 MIN + $\left(\frac{1700 \text{ ft} / 1 \text{ min}}{8 \text{ fps} / 60 \text{ sec}}\right) = 13.5 \text{ min}$
 I100 = 7.9 in/hr (13.5 min)
 TOTAL Q FOR AREA C,D,L USING 13.5 MIN tc
 Q = C-I-A
 Q = (0.90)(7.9)(6.69)
 Q = 47.6 cfs (tc=13.5 min)

AS-BUILT
 NOTE:
 THESE PLANS HAVE BEEN REVISED TO CONFORM WITH CONSTRUCTION RECORDS PROVIDED BY CONTRACTOR.

BENCHMARK:
 TOP OF BRASS DISK FOUND ON SOUTHWEST CORNER OF 8' RECESSED CURB INLET ON EAST SIDE OF ADDISON ROAD, 275± NORTH OF BELT LINE ROAD.
 ELEV.=631.82'

DRAINAGE CALCULATIONS										
DA NO	tc (MIN)	C	AREA (acres)	I25 (in/hr)	Q25 (cfs)	I50 (in/hr)	Q50 (cfs)	I100 (in/hr)	Q100 (cfs)	REMARKS
A	10	0.90	1.82	7.29	11.9	8.01	13.1	8.74	14.3	TO EX WYE INLET (24" DISCHARGE PIPE)
B	10	0.90	0.60	7.29	3.9	8.01	4.3	8.74	4.7	SHEET FLOW TO SUMMERFIELD SUITES
C	10	0.90	2.74	7.29	18.0	8.01	20.0	8.74	21.6	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
D	10	0.90	1.02	7.29	6.7	8.01	7.4	8.74	8.0	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
E	10	0.90	0.48	7.29	3.1	8.01	3.5	8.74	3.8	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
F	10	0.90	0.66	7.29	4.3	8.01	4.8	8.74	5.2	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
G	10	0.90	1.09	7.29	7.2	8.01	7.9	8.74	8.6	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
H	10	0.90	0.74	7.29	4.9	8.01	5.3	8.74	5.8	TO EX 3"x5" INLET (30" DISCHARGE PIPE)
I	10	0.90	0.92	7.29	6.0	8.01	6.6	8.74	7.2	SHEET FLOW TO ADDISON ROAD
J	10	0.90	0.50	7.29	3.3	8.01	3.6	8.74	3.9	TO EX INLETS IN ADDISON ROAD
K	10	0.90	1.34	7.29	8.8	8.01	9.7	8.74	10.5	TO EX CURB INLET (24" DISCHARGE PIPE)
L	10	0.90	2.99	7.29	19.6	8.01	21.6	8.74	23.5	SHEET FLOW TO PAYLESS CASHWAY SITE
M	10	0.90	0.33	7.29	2.2	8.01	2.4	8.74	2.6	SHEET FLOW TO SUMMERFIELD SUITES

DRAINAGE AREA MAP
 BJ'S RESTAURANT
 LOT 2, BLOCK A OF
 BELTWAY CENTRE ADDITION
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

BROCKETTE • DAVIS • DRAKE, INC.
 consulting engineers
 Civil & Structural Engineering • Surveying
 4144 North Central Expressway, Suite 1100 • Dallas, Texas 75204
 (214) 824-3647 • fax (214) 824-7064

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JAR	BLM	11/19/02	1"=50'	BDD	C02132	C6

STATE OF TEXAS
 JAMES A. RILEY
 07/01/03