INLET CALCULATIONS

INLET NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	INTENSITY ''I-100'' (INCHES/ HOUR)	RUNOFF COEFF. ''C''	AREA ''A'' (ACRES)	''Q-100'' FOR AREA (CFS)	CARRY-OVER FROM UPSTREAM (CFS)	TOTAL GUTTER FLOW (CFS)	GUTTER CAPACITY ONE DRY LANE (CFS)	GUTTER SLOPE (FT/FT)	STREET CROSS SLOPE (FT/FT)	ACTUAL GUTTER FLOW DEPTH (FT)	CAPACITY PER FOOT OF INLET (FT)	REQUIRED LENGTH OF INLET (FT)	SELECTED LENGTH OF INLET (FT)	TYPE	CARRY-OVER TO DOWNSTREAM (CFS)
LINE "O" - FUTURE RESIDENTIAL STREET R1																		
O-1	FUTURE BLDG.	100	10.00	8.74	0.90	0.76	5.98	0.00	5.98	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
O-2	FUTURE BLDG.	100	10.00	8.74	0.90	0.44	3.46	0.00	3.46	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
O-3	STREET R1	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
O-4	STREET R1	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
O-5	STREET R1	100	10.00	8.74	0.90	0.20	1.57	0.00	1.57	5.18	0.0150	PAR	NA	NA	4	6	MOD REC	0.00
O-6	STREET R1	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	4	6	MOD REC	0.00
O-7	FUTURE BLDG.	100	10.00	8.74	0.90	1.02	8.02	0.00	8.02	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
O-8	FUTURE BLDG.	100	10.00	8.74	0.90	0.75	5.90	0.00	5.90	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
LINE "Q" - FUTURE RESIDENTIAL STREET R2																		
Q-1	FUTURE BLDG.	100	10.00	8.74	0.90	1.62	12.74	0.00	12.74	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
Q-2	FUTURE BLDG.	100	10.00	8.74	0.90	1.79	14.08	0.00	14.08	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
Q-3	FUTURE BLDG.	100	10.00	8.74	0.90	0.61	4.80	0.00	4.80	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
Q-4	STREET R2	100	10.00	8.74	0.90	0.12	0.94	0.00	0.94	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
Q-5	STREET R2	100	10.00	8.74	0.90	0.14	1.10	0.00	1.10	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
Q-6	STREET R2	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
Q-7	STREET R2	100	10.00	8.74	0.90	0.19	1.49	0.00	1.49	5.18	0.0150	PAR	NA	NA	3	6	MOD REC	0.00
LINE "R" - FUTURE RESIDENTIAL STREET M3/TOLLWAY COMMERCIAL																		
R-1	DALLAS PKWY.	100	10.00	8.74	0.90	0.38	2.99	0.00	2.99	15.75	0.0200	0.0208	0.20	0.26	11	14	REC	0.00
R-2	FUTURE BLDG.	100	10.00	8.74	0.90	1.73	13.61	0.00	13.61	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
R-3	RAILROAD SWALE	100	10.00	8.74	0.90	0.38	2.99	0.00	2.99	NA	NA	NA	NA	NA	4' X 4'	4' X 4'	DROP	NA
R-4	FUTURE BLDG.	100	10.00	8.74	0.90	1.80	14.16	0.00	14.16	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA
R-5	RAILROAD SWALE	100	10.00	8.74	0.90	1.26	9.91	0.00	9.91	NA	NA	NA	NA	NA	4' X 4'	4' X 4'	DROP	0.00
R-6	STREET M3	100	10.00	8.74	0.90	0.13	1.02	0.00	1.02	2.48	0.0120	PAR	NA	NA	5	6	MOD REC	0.00
R-7	STREET M3	100	10.00	8.74	0.90	0.24	1.89	0.00	1.89	2.48	0.0120	PAR	NA	NA	4	6	MOD REC	0.00
R-8	STREET M3	100	10.00	8.74	0.90	0.17	1.34	0.00	1.34	2.48	0.0120	PAR	NA	NA	4	6	MOD REC	0.00
LINE "S" - ADDISON CIRCLE																		
S-1	ADDISON CIRCLE	100	10.00	8.74	0.90	0.15	1.18	3.32	4.50	2.05	0.0130	0.0208	0.25	0.55	8	8	STD	0.00
S-2	ADDISON CIRCLE	100	10.00	8.74	0.90	0.11	0.87	0.17	1.04	2.05	0.0130	0.0208	0.14	NA	3 GRATE	3 GRATE	STD	0.00
S-3	ADDISON CIRCLE	100	10.00	8.74	0.90	0.29	2.28	0.00	2.28	2.05	0.0130	0.0208	0.19	NA	6 GRATE	4 GRATE	STD	0.17
S-4	ADDISON CIRCLE	100	10.00	8.74	0.90	0.17	1.34	0.00	1.34	6.63	0.0130	0.0208	0.16	0.47	3	6	STD	0.00

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "I-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
A-1	10.00	8.74	0.90	0.13	1.02
A-2	10.00	8.74	0.90	0.13	1.02
A-3	10.00	8.74	0.90	0.88	6.92
A-4	10.00	8.74	0.90	0.29	2.28
A-5	10.00	8.74	0.90	0.29	2.28
A-6	10.00	8.74	0.90	0.31	2.44
A-7	10.00	8.74	0.90	0.36	2.83
A-8	10.00	8.74	0.50	0.34	1.49
A-9	10.00	8.74	0.90	0.30	2.36
A-10	10.00	8.74	0.50	0.62	2.71
A-11	10.00	8.74	0.90	0.18	1.42
A-12	10.00	8.74	0.90	0.16	1.26
A-13.1	10.00	8.74	0.90	0.32	2.52
A-13.2	10.00	8.74	0.90	0.69	5.43
A-13.3	10.00	8.74	0.90	0.81	6.37
A-14	10.00	8.74	0.90	0.15	1.18
A-15	10.00	8.74	0.90	1.11	8.73
A-16	10.00	8.74	0.90	0.65	5.11
B-12	10.00	8.74	0.90	0.34	2.67
C-1	10.00	8.74	0.90	0.58	4.56
D-1	10.00	8.74	0.90	0.50	3.93
D-2	10.00	8.74	0.90	0.49	3.85
D-3	10.00	8.74	0.90	0.54	4.25
J-1	10.00	8.74	0.90	0.61	4.80
J-2	10.00	8.74	0.90	1.27	9.99
J-3	10.00	8.74	0.90	0.34	2.67
L-1	10.00	8.74	0.90	0.49	3.85
L-2	10.00	8.74	0.90	1.96	15.42
L-3	10.00	8.74	0.90	0.40	3.15
L-4	10.00	8.74	0.90	0.27	2.12
L-5	10.00	8.74	0.90	1.21	9.52
L-6	10.00	8.74	0.90	0.19	1.49
L-7	10.00	8.74	0.90	0.31	2.44
L-8	10.00	8.74	0.90	1.85	14.55

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "I-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
L-8	10.00	8.74	0.90	1.85	14.55
L-9	10.00	8.74	0.90	0.31	2.44
L-10	10.00	8.74	0.90	1.19	9.36
L-11	10.00	8.74	0.90	0.27	2.12
L-12	10.00	8.74	0.90	0.31	2.44
M-1	10.00	8.74	0.90	0.36	2.83
M-2	10.00	8.74	0.90	0.12	0.94
M-3	10.00	8.74	0.90	0.37	2.91
M-4	10.00	8.74	0.90	0.53	4.17
M-5	10.00	8.74	0.90	1.04	8.18
M-6	10.00	8.74	0.90	1.37	10.78
M-7	10.00	8.74	0.90	0.11	0.87
M-8	10.00	8.74	0.90	0.32	2.52
N-1	10.00	8.74	0.90	1.21	9.52
N-2	10.00	8.74	0.90	0.44	3.46
N-3	10.00	8.74	0.90	0.55	4.33
N-4	10.00	8.74	0.90	0.17	1.34
N-5	10.00	8.74	0.90	0.76	5.98
N-6	10.00	8.74	0.90	0.15	1.18
N-7	10.00	8.74	0.50	0.69	3.02
O-1	10.00	8.74	0.90	0.76	5.98
O-2	10.00	8.74	0.90	0.44	3.46
O-3	10.00	8.74	0.90	0.12	0.94
O-4	10.00	8.74	0.90	0.12	0.94
O-5	10.00	8.74	0.90	0.20	1.57
O-6	10.00	8.74	0.90	0.19	1.49
O-7	10.00	8.74	0.90	1.02	8.02
O-8	10.00	8.74	0.90	0.75	5.90
Q-1	10.00	8.74	0.90	1.62	12.74
Q-2	10.00	8.74	0.90	1.79	14.08
Q-3	10.00	8.74	0.90	0.61	4.80
Q-4	10.00	8.74	0.90	0.12	0.94
Q-5	10.00	8.74	0.90	0.14	1.10
Q-6	10.00	8.74	0.90	0.19	1.49

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "I-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
Q-7	10.00	8.74	0.90	0.19	1.49
R-1	10.00	8.74	0.90	0.38	2.99
R-2	10.00	8.74	0.90	1.73	13.61
R-3	10.00	8.74	0.90	0.38	2.99
R-4	10.00	8.74	0.90	1.80	14.16
R-5	10.00	8.74	0.90	1.26	9.91
R-6	10.00	8.74	0.90	0.13	1.02
R-7	10.00	8.74	0.90	0.24	1.89
R-8	10.00	8.74	0.90	0.17	1.34
S-1	10.00	8.74	0.90	0.15	1.18
S-2	10.00	8.74	0.90	0.11	0.87
S-3	10.00	8.74	0.90	0.29	2.28
S-4	10.00	8.74	0.90	0.17	1.34

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID E. MEYERS, P.E. 81512

STATE OF TEXAS · DAVID E. MEYERS · 81512 · REGISTERED · PROFESSIONAL ENGINEER · 12/15/00

RECORD DRAWING

DATE	DESCRIPTION	REF NO.
10/3/97	ISSUED FOR CONSTRUCTION	N/A
7/14/97	ISSUED FOR BID	N/A

STORM WATER CALCULATIONS
INLET & RUNOFF CALCULATIONS

ADDISON CIRCLE
PHASE II PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tustin, Ontario

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DEM	N.T.S.	JUN. 97	01-1822-21	SW4

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