



Drainage Area Inlet Number	AREA ACRES	C _s	C ₁₀₀	T _c (Min)	T _s (In/Hr)	T ₁₀₀ (In/Hr)	Design Q ₂ (CFS)	Q ₁₀₀ (CFS)	Spread S 18" Design 100-yr	Intercept S 18" Design 100-yr	Bypass S 18" Design 100-yr	Notes
Parcel #6 & R.O.W. Penstemon (East) (1)	3.85	0.75	0.87	19	15	4.10	7.37	24.7	13.9	5.8	6.2	First L(1)=10'
(2)							(6.2)	(18.3)	10.3	3.5	2.7	Second L(1)=10'
R.O.W. 32nd St. (South Side) (3)	1.20	0.88	0.93	15	4.56	7.37	5.2	8.9	10.2	3.1	2.1	L(1)=10'
To Area Inlet - Stub at SE Corner of 32nd St. W. & Penstemon - 102	5.35	0.69	0.80	21	15	3.90	7.37	31.5	-	14.4	-	24" RCP Stub Sump
Sub-Total	10.50	0.74	0.84	21	15	3.90	7.37	65.0	-	26.8	3.5	(38.2)
R.O.W. Penstemon (East Side) (4)	1.37	0.88	0.93	15	4.56	7.37	5.5	9.4	10.6	3.2	2.3	L(1)=10'
To Grate Manhole SW Corner of 32nd St. W. & Penstemon - 104	1.50	0.74	0.83	19	15	4.10	7.37	4.6	9.2	4.6	-	Neenan Type C ₂ Grate St. Radial 9' 0.6' Depth
Sub-Total	13.37	0.75	0.85	21	15	3.90	7.37	39.1	83.8	24.6	4.5	(49.2)
Bypass Flow to SW Corner of 32nd St. W. & Penstemon (5)							4.5	49.2	9.2	2.5	1.9	L(1)=10'
Parcels #42, 43, 44, & 45 & R.O.W. 32nd St. W. (North Side) (6)	5.60	0.72	0.82	22	16	3.81	7.18	15.4	14.7	5.2	9.2	L(1)=10'
Sub-Total	18.97	0.74	0.84	22	16	3.81	7.18	53.5	114.4	43.4	10.1	(71.0)
To Street Sump East of Theatre Parking Lot (7)	1.50	0.74	0.83	19	15	4.10	7.37	4.6	9.2	-	-	-
North Portion of Theatre Parking Lot Entrance to St. Sump (8)	1.03	0.87	0.89	15	4.56	7.37	4.1	6.8	-	-	-	-
R.O.W. 32nd St. W. (South Side) to Street Sump (9)	0.44	0.88	0.93	15	4.56	7.37	1.8	3.0	-	-	-	-
Above 3 Area Sub-Total	2.97	0.81	0.87	20	15	4.00	7.37	9.6	19.0	-	-	-
Total Q to South Sump Along 32nd St. W. (10)							11.5	55.6	-	11.5	-	1L(1)=10' 1L(1)=5'
R.O.W. 32nd St. W. (North Side) to Street Sump (11)	0.69	0.88	0.93	15	4.56	7.37	2.8	4.7	-	-	-	-
Total Q to North Sump Along 32nd St. W. (12)							12.0	28.2	-	18.0	-	1L(1)=10'
Sub-Total-Both Sumps	22.63	0.75	0.85	23	17	3.73	7.00	63.3	124.6	63.3	39.9	-
North Side 32nd St. W. at St. St. 3 + 00 (13)								10.2	Bypass	12.9	5.1	5.1 1L(1)=10'
South Side 32nd St. W. at St. St. 3 + 00 (14)								35.8	Bypass	20.7	10.3	25.3 1L(1)=10'
Curb Inlet in Theatre Parking Lot (15)	0.40	0.87	0.89	15	4.56	7.37	1.6	2.6	-	1.6	-	1L(1)=5'
R.O.W. 32nd St. W. (North Side) at Rock Road (16)	0.72	0.88	0.93	18	4.20	6.84	2.7	4.6	-	-	-	-
Plus Bypass (17)							2.7	9.7	12.7	5.0	4.7	1L(1)=10'
R.O.W. 32nd St. W. (South Side) at Rock Road (18)	0.20	0.88	0.93	17	4.31	7.00	1.1	2.0	-	-	-	-
Plus Bypass (19)							1.1	27.3	18.8	8.9	18.4	1L(1)=10'
To Area Inlet - Sump at SE Corner of 32nd St. W. and Rock Road (20)	1.24	0.87	0.89	15	4.56	7.37	4.9	8.1	-	4.9	-	21" RCP Stub Sump
To Area Inlet - Sump at NE Corner of 32nd St. W. and Rock Road (21)	2.26	0.69	0.80	21	15	3.90	7.27	6.1	13.1	-	13.1	24" RCP Stub Sump
Total Discharge Out of Mediterranean Plaza Commercial & Rock Road Systems							178.1	247.1				

NUMBER OF TRIALS = 44
NUMBER OF RUNS = 31
THE FLOW CONVERSION FACTOR = 1

IS SUMMARY OF INPUT DATA

PIPE	NO.	INLET	MANHOLE	LENGTH	DIA.	VELOCITY	DEPTH	TIME	LOSS	TYPE
1	1	1	2	100	18	1.5	1.5	0.0	0.0	18"
2	2	2	3	100	18	1.5	1.5	0.0	0.0	18"
3	3	3	4	100	18	1.5	1.5	0.0	0.0	18"
4	4	4	5	100	18	1.5	1.5	0.0	0.0	18"
5	5	5	6	100	18	1.5	1.5	0.0	0.0	18"
6	6	6	7	100	18	1.5	1.5	0.0	0.0	18"
7	7	7	8	100	18	1.5	1.5	0.0	0.0	18"
8	8	8	9	100	18	1.5	1.5	0.0	0.0	18"
9	9	9	10	100	18	1.5	1.5	0.0	0.0	18"
10	10	10	11	100	18	1.5	1.5	0.0	0.0	18"
11	11	11	12	100	18	1.5	1.5	0.0	0.0	18"
12	12	12	13	100	18	1.5	1.5	0.0	0.0	18"
13	13	13	14	100	18	1.5	1.5	0.0	0.0	18"
14	14	14	15	100	18	1.5	1.5	0.0	0.0	18"
15	15	15	16	100	18	1.5	1.5	0.0	0.0	18"
16	16	16	17	100	18	1.5	1.5	0.0	0.0	18"
17	17	17	18	100	18	1.5	1.5	0.0	0.0	18"
18	18	18	19	100	18	1.5	1.5	0.0	0.0	18"
19	19	19	20	100	18	1.5	1.5	0.0	0.0	18"
20	20	20	21	100	18	1.5	1.5	0.0	0.0	18"
21	21	21	22	100	18	1.5	1.5	0.0	0.0	18"
22	22	22	23	100	18	1.5	1.5	0.0	0.0	18"
23	23	23	24	100	18	1.5	1.5	0.0	0.0	18"
24	24	24	25	100	18	1.5	1.5	0.0	0.0	18"
25	25	25	26	100	18	1.5	1.5	0.0	0.0	18"
26	26	26	27	100	18	1.5	1.5	0.0	0.0	18"
27	27	27	28	100	18	1.5	1.5	0.0	0.0	18"
28	28	28	29	100	18	1.5	1.5	0.0	0.0	18"
29	29	29	30	100	18	1.5	1.5	0.0	0.0	18"
30	30	30	31	100	18	1.5	1.5	0.0	0.0	18"
31	31	31	32	100	18	1.5	1.5	0.0	0.0	18"
32	32	32	33	100	18	1.5	1.5	0.0	0.0	18"
33	33	33	34	100	18	1.5	1.5	0.0	0.0	18"
34	34	34	35	100	18	1.5	1.5	0.0	0.0	18"
35	35	35	36	100	18	1.5	1.5	0.0	0.0	18"
36	36	36	37	100	18	1.5	1.5	0.0	0.0	18"
37	37	37	38	100	18	1.5	1.5	0.0	0.0	18"
38	38	38	39	100	18	1.5	1.5	0.0	0.0	18"
39	39	39	40	100	18	1.5	1.5	0.0	0.0	18"
40	40	40	41	100	18	1.5	1.5	0.0	0.0	18"
41	41	41	42	100	18	1.5	1.5	0.0	0.0	18"
42	42	42	43	100	18	1.5	1.5	0.0	0.0	18"
43	43	43	44	100	18	1.5	1.5	0.0	0.0	18"
44	44	44	45	100	18	1.5	1.5	0.0	0.0	18"
45	45	45	46	100	18	1.5	1.5	0.0	0.0	18"
46	46	46	47	100	18	1.5	1.5	0.0	0.0	18"
47	47	47	48	100	18	1.5	1.5	0.0	0.0	18"
48	48	48	49	100	18	1.5	1.5	0.0	0.0	18"
49	49	49	50	100	18	1.5	1.5	0.0	0.0	18"
50	50	50	51	100	18	1.5	1.5	0.0	0.0	18"
51	51	51	52	100	18	1.5	1.5	0.0	0.0	18"
52	52	52	53	100	18	1.5	1.5	0.0	0.0	18"
53	53	53	54	100	18	1.5	1.5	0.0	0.0	18"
54	54	54	55	100	18	1.5	1.5	0.0	0.0	18"
55	55	55	56	100	18	1.5	1.5	0.0	0.0	18"
56	56	56	57	100	18	1.5	1.5	0.0	0.0	18"
57	57	57	58	100	18	1.5	1.5	0.0	0.0	18"
58	58	58	59	100	18	1.5	1.5	0.0	0.0	18"
59	59	59	60	100	18	1.5	1.5	0.0	0.0	18"
60	60	60	61	100	18	1.5	1.5	0.0	0.0	18"
61	61	61	62	100	18	1.5	1.5	0.0	0.0	18"
62	62	62	63	100	18	1.5	1.5	0.0	0.0	18"
63	63	63	64	100	18	1.5	1.5	0.0	0.0	18"
64	64	64	65	100	18	1.5	1.5	0.0	0.0	18"
65	65	65	66	100	18	1.5	1.5	0.0	0.0	18"
66	66	66	67	100	18	1.5	1.5	0.0	0.0	18"
67	67	67	68	100	18	1.5	1.5	0.0	0.0	18"
68	68	68	69	100	18	1.5	1.5	0.0	0.0	18"
69	69	69	70	100	18	1.5	1.5	0.0	0.0	18"
70	70	70	71	100	18	1.5	1.5	0.0	0.0	18"
71	71	71	72	100	18	1.5	1.5	0.0	0.0	18"
72	72	72	73	100	18	1.5	1.5	0.0	0.0	18"
73	73	73	74	100	18	1.5	1.5	0.0	0.0	18"
74	74	74	75	100	18	1.5	1.5	0.0	0.0	18"
75	75	75	76	100	18	1.5	1.5	0.0	0.0	18"
76	76	76	77	100	18	1.5	1.5	0.0	0.0	18"
77	77	77	78	100	18	1.5	1.5	0.0	0.0	18"
78	78	78	79	100	18	1.5	1.5	0.0	0.0	18"
79	79	79	80	100	18	1.5	1.5	0.0	0.0	18"
80	80	80	81	100	18	1.5	1.5	0.0	0.0	18"
81	81	81	82	100	18	1.5	1.5	0.0	0.0	18"
82	82	82	83	100	18	1.5	1.5	0.0	0.0	18"
83	83	83	84	100	18	1.5	1.5	0.0	0.0	18"
84	84	84	85	100	18	1.5	1.5	0.0	0.0	18"
85	85	85	86	100	18	1.5	1.5	0.0	0.0	18"
86	86	86	87	100	18	1.5	1.5	0.0	0.0	18"
87	87	87	88	100	18	1.5	1.5	0.0	0.0	18"
88	88	88	89	100	18	1.5	1.5	0.0	0.0	18"
89	89	89	90	100	18	1.5	1.5	0.0	0.0	18"
90	90	90	91	100	18	1.5	1.5	0.0	0.0	18"
91	91	91	92	100	18	1.5	1.5	0.0	0.0	18"
92	92	92	93	100	18</					