

PEC FILE NO. 39-78153-991
TWO-YEAR STORM SEWER SYSTEM ALTERNATE II
FIN METHOD OF COMPUTING TIME OF CONCENTRATION
JULY 3, 1979

HHH HHH YYY YYY DDDDDDD RRRRRRR OOOOOO LLL OOOOOO GGGGGG YYY YYY
HHH HHH YYY YYY DDDDDDD RRRRRRR OOOOOO LLL OOOOOO GGGGGG YYY YYY
HHH HHH YYY YYY DDD DDD RRR RRR AAA AAA UUU UUU LLL III III CCCCCC SSSSSS
HHH HHH YYY YYY DDD DDD RRR RRR AAA AAA UUU UUU LLL III C C SSSSSS
HHH HHH YYY YYY DDD DDD RRRRRR AAAAAA UUU UUU LLL III C C C SSSSSS
HHH HHH YYY DDD DDD RRR RRR AAA AAA UUUUUUU LLLLLLL IIIIII CCCCCC SSSSSS
HHH HHH YYY DDDDDDD RRR RRR AAA AAA UUUUUU LLLLLLL IIIIII CCCCCC SSSSSS

Table with columns: POINT TO POINT, C, SLOPE (%), LEN (FT), TC (MIN), TC (HRS), HYDROLOGY SUBSTATION, TC (MIN), TC (HRS), SUM A, SUM B, SIZE, VELOCITY (FT/SEC), LENGTH (FT), TT (MIN), TT (HRS). Rows include points 430-480, 420-410, 410-400, 400-390, 390-380, 380-370, 370-360, 360-350, 350-340, 340-330, 330-320, 320-310, 310-290, 300-290, 290-280, 280-270, 270-260, 260-250, 250-240, 240-230, 230-220, 220-210, 210-200.

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HHH HHH YYY YYY DDDDDDD RRRRRRR OOOOOO LLL IIIIII CCCCCC SSSSSS
HHH HHH YYY YYY DDDDDDD RRRRRRR AAAAAA UUU UUU LLL IIIIII CCCCCC SSSSSS
HHH HHH YYY YYY DDD DDD RRR RRR AAA AAA UUU UUU LLL III C C SSSSSS
HHH HHH YYY YYY DDD DDD RRRRRR AAAAAA UUU UUU LLL III C C C SSSSSS
HHH HHH YYY DDD DDD RRR RRR AAA AAA UUUUUUU LLLLLLL IIIIII CCCCCC SSSSSS
HHH HHH YYY DDDDDDD RRR RRR AAA AAA UUUUUU LLLLLLL IIIIII CCCCCC SSSSSS

Table with columns: POINT, HYD-SLOPE (FT/FT), FRICTION (FT), BEHD (FT), TRANSITION (FT), MANHOLE (FT), DEFLECTION (FT), JUNCTION (FT), TOTAL (FT), HYD-CL. ELEVATION (FT), DESIRED ELEVATION (FT), DIFF. (FT). Rows correspond to points 430 through 200.

SPRING VALLEY ESTATES
TWO-YEAR STORM SEWER
ALTERNATE 1

HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	000000	LLL	000000	000000	YYY	YYY

TRIBUTARY AREA										HYDROLOGY SUMMATION				CONDUIT DATA			
POINT	TC	C	AREA	SLOPE	LENGTH	TC<E>	I<E>	Q<E>	TC	I	Q	SUM Q	SIZE	VELOCITY	LENGTH	TT	TT + TC
POINT	TC	C	(AC)	<E>	(FEET)	(MIN)	(IN/HR)	(CFS)	(MIN)	(IN/HR)	(CFS)	(CFS)		<FT/SEC>	(FEET)	(MIN)	(MIN)
390	380	.50	2.40	.60	670.0	33.2	2.67	3.2	33.2	2.67	3.2	3.2	15"	2.61	60.0	.4	33.6
380	370	.50	1.00	.56	450.0	27.9	3.05	1.5	33.6	2.65	1.3	4.5	15"	3.69	250.0	1.1	34.7
370	360	.50	4.10	1.00	900.0	32.4	2.72	5.6	34.7	2.58	5.3	9.8	18"	5.55	60.0	.2	34.9
360	330	.50	.90	1.11	450.0	22.1	3.49	1.6	34.9	2.57	1.2	11.0	18"	6.21	140.0	.4	35.3
350	340	.50	1.30	.71	325.0	21.8	3.51	2.3	21.8	3.51	2.3	2.3	15"	1.96	60.0	.5	22.4
340	330	.50	.40	.92	250.0	17.6	3.22	.8	22.4	3.47	.7	3.0	15"	2.42	130.0	.9	23.3
330	310	.50	1.90	1.36	550.0	22.8	3.44	3.3	35.3	2.55	2.4	15.6	30"	3.12	70.0	.4	35.6
320	310	.50	1.10	1.44	600.0	27.1	3.12	1.7	27.1	3.12	1.7	1.7	15"	1.40	60.0	.7	27.8
310	290	.50	1.80	.56	450.0	27.9	3.05	2.7	35.6	2.53	2.3	19.3	30"	3.93	300.0	1.3	36.9
300	290	.50	3.90	2.10	920.0	25.6	3.26	6.4	25.6	3.26	6.4	6.4	18"	3.60	60.0	.3	25.9
290	280	.50	1.90	.91	470.0	24.1	3.37	3.2	36.9	2.46	2.3	26.5	30"	5.39	50.0	.2	37.1
280	270	.50	2.20	1.90	970.0	26.9	3.14	4.1	37.1	2.45	3.2	29.7	30"	6.64	300.0	.8	37.9
270	150	.50	2.95	2.21	900.0	24.9	3.33	4.9	37.9	2.41	3.6	33.2	30"	6.77	220.0	.5	38.4
150	140	.50	1.65	3.08	520.0	16.9	3.27	3.2	38.4	2.39	2.0	35.2	30"	7.17	50.0	.1	38.5
140	130	.50	1.60	3.08	520.0	16.9	3.27	3.1	38.5	2.38	1.9	37.1	30"	7.56	150.0	.3	38.9
130	120	0.	0.	0.	0.	0.	0.	0.	38.9	2.36	1.9	37.1	30"	7.56	330.0	.7	39.6
120	110	0.	0.	0.	0.	0.	0.	0.	39.6	2.33	1.9	37.1	30"	7.56	330.0	.7	40.3
110	100	0.	0.	0.	0.	0.	0.	0.	40.3	2.30	1.9	37.1	30"	7.56	150.0	.3	40.7

HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS
HHH	HHH	YYY	YYY	DDDDDD	RRRRRR	AAAAAA	UUU	UUU	LLL	IIIIII	CCCCC	SSSSSS

POINT	HYD-SLOPE	FRICTION	SEHD	TRANSITION	MANHOLE	DEFLECTION	JUNCTION	TOTAL	HYD-CL	DESIRED	DIFF.
POINT	(FT/FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	ELEVATION	ELEVATION	(FT)
390	.00327	.1964	0.	0.	0.	0.	0.	.1964	1317.79	1327.50	9.71
380	.00654	1.6342	0.	.0105	0.	0.	.2358	1.8905	1317.60	1327.50	9.90
370	.01162	.6973	0.	.0268	0.	0.	.2312	1.5952	1315.71	1320.50	4.79
360	.01452	2.0329	0.	.0119	0.	0.	.3049	2.3497	1314.16	1320.50	6.34
350	.00166	.0994	0.	0.	0.	0.	0.	.0994	1312.37	1312.20	5.23
340	.00222	.3665	0.	.0032	0.	0.	.0865	.4568	1312.27	1312.20	5.93
330	.00193	.1349	0.	.0083	0.	.1839	-.0975	.3096	1311.21	1317.00	5.79
320	.00094	.0565	0.	0.	0.	0.	0.	.0565	1311.56	1317.00	5.44
310	.00295	.8843	0.	.0083	0.	.0210	.1787	1.0923	1311.50	1317.00	5.50
300	.00458	.2929	0.	0.	0.	0.	0.	.2929	1310.70	1315.25	4.55
290	.00555	.2773	0.	.0212	0.	0.	.4454	.7439	1310.41	1315.25	4.84
280	.00696	2.0090	0.	.0115	0.	0.	.2624	2.3629	1309.66	1315.25	5.59
270	.00873	1.9213	0.	.0144	0.	.2635	.3221	2.5473	1307.30	1311.50	4.20
150	.00980	.4899	0.	.0087	0.	.3556	.2202	1.0744	1304.75	1310.50	5.75
140	.01089	1.6331	0.	.0089	0.	0.	.2295	1.8714	1303.68	1310.50	6.82
130	.01089	3.5927	0.	0.	.0443	0.	.0545	3.6916	1301.21	1308.50	7.29
120	.01089	3.5927	0.	0.	.0443	0.	.0545	3.6916	1298.12	1302.60	4.48
110	.01089	1.6331	0.	0.	.0443	.1930	.0545	1.9249	1294.42	1297.65	3.23
100	0.	0.	0.	0.	0.	0.	0.	0.	1292.50	1292.50	0.