25 YR.

SALVATION ARMY 10-22-92 SUBMITTAL DATE: 10-22-92

ELEVATION	AREA	VOLUME	CUM. VOLUME
547.00	0		
		2430	2430
548.00	4860		
		13982	16412
550.00	9122		
		20991	37403
551.75	14868		
		3819	41222
552.00	15689		
		38919	80141
554.00	23230		

```
*****************************************
*                                       *
*  PIPE OUTLET                          *
*  1  73 ft - 9 in pipe(s)              *
*  UFL= 547  LFL= 541.82   n= .013       *
*                                       *
*****************************************
```

Tc = 4 MIN.

SALVATION ARMY 10-22-92 SUBMITTAL DATE: 10-22-92

MIN	INFLOW	STORAGE	OUTFLOW	NET DET.	ELEV.	
1	342.75	342.75	0.00	342.75	547.14	
2	685.50	1028.25	3.42	1024.83	547.42	
3	1028.25	2053.08	25.82	2027.26	547.83	
4	1371.00	3398.26	87.94	3310.32	548.13	
5	1371.00	4681.32	112.44	4568.88	548.31	
6	1371.00	5939.88	125.20	5814.68	548.48	
7	1371.00	7185.68	136.66	7049.02	548.66	
8	1371.00	8420.02	147.13	8272.89	548.84	
9	1371.00	9643.89	156.83	9487.06	549.01	
10	1371.00	10858.06	165.89	10692.17	549.18	
11	1371.00	12063.17	174.42	11888.75	549.35	
12	1371.00	13259.75	182.49	13077.26	549.52	
13	1371.00	14448.26	190.18	14258.08	549.69	
14	1371.00	15629.08	197.51	15431.57	549.86	
15	1371.00	16802.57	204.54	16598.03	550.02	
16	1371.00	17969.03	210.85	17758.18	550.11	
17	1371.00	19129.18	214.68	18914.50	550.21	
18	1371.00	20285.50	218.43	20067.07	550.30	
19	1371.00	21438.07	222.10	21215.97	550.40	
20	1371.00	22586.97	225.70	22361.27	550.50	
21	1028.25	23389.52	229.24	23160.28	550.56	
22	685.50	23845.78	231.67	23614.11	550.60	
23	342.75	23956.86	233.04	23723.82	550.61	← 25YR H.W.
24	0.00	23723.82	233.37	23490.45	550.59	
25	0.00	23490.45	232.67	23257.78	550.57	

SPILLWAY:

PEAK OUTFLOW= 3.89 CFS AT 24 MINUTES
QUANTITY OF WATER 43.04
WIDTH OF SPILLWAY 10
C VALUE= 3
HEIGHT OF WATER 1.27204
VELOCITY= 3.383543

100 YR.

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*****************************************
*                                       *
*  PIPE OUTLET                          *
*  1  73 ft - 9 in pipe(s)              *
*  UFL= 547  LFL= 541.82   n= .013       *
*                                       *
*****************************************
```

Tc = 4 MIN.

SALVATION ARMY 10-22-92 SUBMITTAL DATE: 10-22-92

MIN	INFLOW	STORAGE	OUTFLOW	NET DET.	ELEV.	
1	438.25	438.25	0.00	438.25	547.18	
2	876.50	1314.75	5.40	1309.35	547.54	
3	1314.75	2624.10	38.97	2585.13	548.02	
4	1753.00	4338.13	104.39	4233.74	548.26	
5	1753.00	5986.74	121.93	5864.81	548.49	
6	1753.00	7617.81	137.10	7480.71	548.72	
7	1753.00	9233.71	150.63	9083.09	548.95	
8	1753.00	10836.09	162.93	10673.16	549.18	
9	1753.00	12426.16	174.29	12251.87	549.40	
10	1753.00	14004.87	184.87	13820.00	549.63	
11	1753.00	15573.00	194.82	15378.18	549.85	
12	1753.00	17131.18	204.23	16926.95	550.04	
13	1753.00	18679.95	211.94	18468.00	550.17	
14	1753.00	20221.00	216.99	20004.01	550.30	
15	1753.00	21757.01	221.90	21535.11	550.43	
16	1753.00	23288.11	226.69	23061.42	550.55	
17	1753.00	24814.42	231.37	24583.05	550.68	
18	1753.00	26336.05	235.94	26100.11	550.81	
19	1753.00	27853.11	240.41	27612.70	550.93	
20	1753.00	29365.70	244.79	29120.91	551.06	
21	1314.75	30435.66	249.07	30186.59	551.15	
22	876.50	31063.09	252.06	30811.03	551.20	
23	438.25	31249.28	253.79	30995.49	551.22	← 100Y H.W.
24	0.00	30995.49	254.30	30741.19	551.19	
25	0.00	30741.19	253.60	30487.59	551.17	

PEAK OUTFLOW= 4.24 CFS AT 24 MINUTES

Computed By JLK Date 10-23-92 Checked By _____ Date _____

HYDRAULIC DATA PROJECT SALVATION ARMY SHEET 1 OF 1

LINE	Length	Size	Upper Flow Line	Lower Flow Line	F.L. Upper Ground	Lower Ground	Depth Upper	Depth Lower	Hy. Grad.	Fric Head	Vel.	$\frac{V^2}{2g}$	Turn Loss	Inlet Control	Area Acres	Quantity C.F./Acre	T.Q.	Q
Upper Sewer	53'	12"	550.94	547.48	553.92	—	8.96	55.11	550.04	0.50	4.17	0.27	0.34	0	Conf	4.00	0.89	3.65	3.27	3.27	85.04	3.27
Lower Sewer	155'	12"	547.48	541.82	553.92	—	6.96	55.11	550.04	25 YR HIGH WATER												

Plasett, Rex & Sinner, Inc.