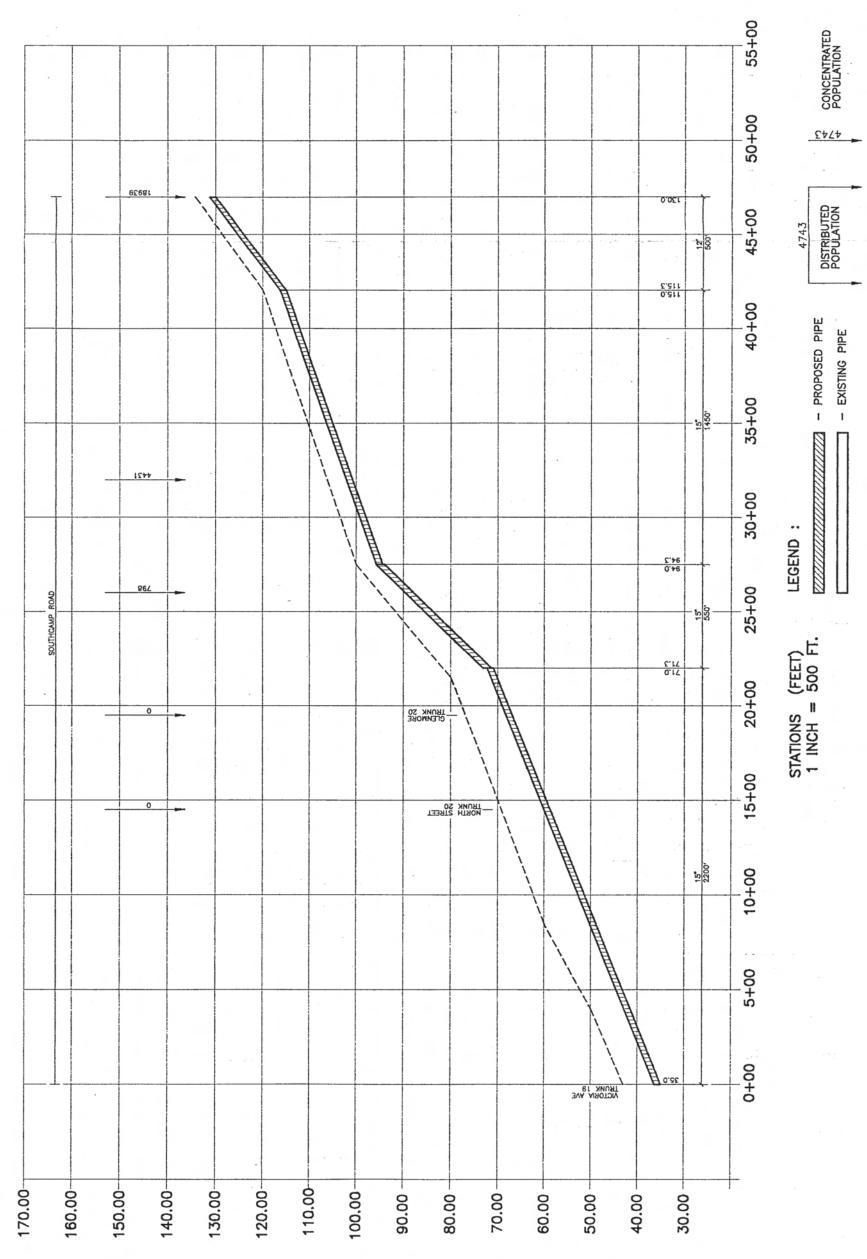
0.013		LOWER	INVERT	117.4	36																							
=u	PROFILE	UPPER	INVERT	135	117																							
28		LENGTH	FT.	200	3200																							
	7	^	FPS	369744	391196	ERR																						
(pdbi) MC	SEWER DESIGN	0	CFS	3.472395 6.369744	3.48409 6.391196	ERR																						
DESIGN FLOW (igpd)	SEWE	DIAM.	INCHES	10 3	10																							
٥		SLOPE	%	2.514286	2.53125	ERR																						
		TOTAL	QCFS	74	2.678462	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
0	I FLOW	INFILTR.	% OF FLOW	5 3	10	10	10	10	10	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
Trunk No. 10	DESIGN FLOW	SEWAGE	_	1.958261	2.434966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
F		PEAK		3.19208	7708	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	-
	NOI	CUMMULATIVE	d	9699	7322																							THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IS NOT T
	POPULATION	INDIVIDUAL	d	9699	1626																							The state of the s
	/ROAD		TO																									
	STREET/ROAD		FROM																									-
	LOCATION			MOUNTAIN VIEW	MOUNTAIN VIEW																							Contract of the last of the la

DESIGN FLOW sewage INFILTR. TOTAL SLOPE CFS ** OF FLOW QCFS ** 4.241252 5 4.453314 1.525 5 5.80908 0.428571 TRUNK 3 5 5.80908 0.428571 1.75 5.646413 5 6.808401 1.75 9.932581 5 10.42921 1.75 9.932581 5 10.42921 1.75 9.932581 5 10.42921 1.75 9.932581 5 10.42921 1.75 9.932581 5 10.42921 1.657143 9.932581 5 10.42921 1.657143 9.932581 5 20.25831 1.470588 0 15 0 ERR						Trunk No.	3			DESIGN FLOW (igpd)	LOW (igpo	9	28	II.	0.013
CUMMALLATIVE PEAK SEWAGE INFILTR. TOTAL SLOPE	OLE	1 1	POPULAT	NOI		DESIG	SN FLOW			SEW	SEWER DESIGN	SN		PROFILE	
4026 14026 2.807587 4.241252 5 5.80908 0.428571 19248 2.66929 5.532457 5 5.80908 0.428571 19248 2.66929 5.532457 5 5.80908 0.428571 19218 2.66929 5.532457 5 5.80908 0.428571 1725 19244 2.06924 4.465143 5 5.928734 1.775 19244 38963 2.366916 9.932581 5 10.42921 1.470588 192924 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 2.366916 9.932581 5 10.42921 1.470588 1929363 19.293			INDIVIDUAL	CUMMULATIVE	PEAK	SEWAGE	INFILTR.	TOTAL	SLOPE	DIAM.	0	۸	LENGTH	UPPER	LOWER
14026 2.807587 4.241252 5 4.453314 1 19244 2.66929 5.532457 5 5.80908 0.428 19242 2.66929 5.532457 5 5.80908 0.428 19719 2.658648 5.646413 5 6.928734 38963 2.366916 9.932581 5 10.42921 38963 2.366916 9.932581 5 10.42921 1.65 38963 2.366916 9.932581	TO		Ь	۵	FACTOR	CFS	% OF FLOW	QCFS	%	INCHES	CFS	FPS	FT.	INVERT	INVERT
19244 2.66929 5.532457 5 5.80908 0.428 14908 2.780924 4.465143 5 6.928734 19719 2.658648 5.646413 5 6.928734 19719 2.658648 5.646413 5 6.928734 38963 2.366916 9.932581 5 10.42921 0.423 38963 2.366916 9.932581 5 10.42921 0.623 87444 2.048599 19.29363 5 20.25831 0.475 87444 2.048599 19.29363 5 20.25831 0.475 4.5			14026	14026	2.807587	4.241252	5	4.453314	1.525	15	7.973214	6.500455	2400	211	174.4
TRUNK 3 14908 2.780924 4.465143 5 4.688401 19719 2.658648 5.646413 5 5.928734 38963 2.366916 9.932581 5 10.42921 38963 2.366916 9.932581 5 10.42921 1.65 87444 2.048599 19.29363 5 20.25831 87444 2.048599 19.29363 5 20.25831 4.5 0 15 0 0 4.5 0 0 15 0 0 4.5 0 0 0 15 0 0 4.5 0 0 0 15 0 0 4.5 0 0 0 15 0 0 4.5 0 0 0 15 0 0 4.5 0 0 0 0 15 0 0 4.5 0 0 0 0 0 0 4.5 0 0 0 0 0 0 4.5 0 0 0 0 0 0 4.5 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0 0 0 4.5 0 0 0 0 0 0 0			5218		2.66929	5.532457	5			18	18 6.873217 3.891418	3.891418	700	174	171
14908 2.780924 4.465143 5.4688401 19719 2.658648 5.646413 5.928734 38963 2.366916 9.932581 5 10.42921 0.4238963 2.366916 9.932581 5 10.42921 0.4238963 2.366916 9.932581 5 10.42921 0.4238963 2.366916 9.932581 5 10.42921 0.4238963 2.366916 9.932581 5 10.42921 0.4238963 0.29363 5 20.25831 0.42989 0.29363 5 20.25831 0.42989 0.29363 5 20.25831 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989 0.29363 0.42989						0 /111104									
14908			00077		1000010	I KUNK 3		,0,000,	1		011071	00000			
19719 2 658648 5 646413 5 5.928734 38963 2 366916 9.932581 5 10.42321 38963 2 366916 9.932581 5 10.42321 38963 2 366916 9.932581 5 10.42321 38963 2 366916 9.932581 5 20.25831 87444 2 048599 19.29363 5 20.25831 4.5 0 15 0 4.5			14908	14908	2./80924	4.465143	5	- 1	1.75	12	12 4.710758 6.000966	996000.9	3200 *	221	165
38963 2.366916 9.932581 5 10.42921 0.42921 0.42921 0.42921 0.42921 0.42921 0.6			4811			5.646413	5		1.75	15	15 8.541173 6.963504	6.963504	3200	221	165
38963 2.366916 9.932581 5 10.42921 0.42921 0.42921 0.42921 1.65 87444 2.048599 19.29363 5 10.42921 1.65 87444 2.048599 19.29363 5 20.25831 1.47 87444 2.048599 19.29363 5 20.25831 1.47 4.5 0 15 0 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 <t< td=""><td></td><td></td><td>19244</td><td></td><td></td><td></td><td>5</td><td></td><td>1.75</td><td>18</td><td>18 13.88889</td><td>7.86349</td><td>3200 *</td><td>221</td><td>165</td></t<>			19244				5		1.75	18	18 13.88889	7.86349	3200 *	221	165
38963 2.366916 9.932581 5 10.42921 1.65 87444 2.048599 19.29363 5 20.25831 1.47 87444 2.048599 19.29363 5 20.25831 1.47 4.5 0 15 0 0 1 0 4.5 0 15 0			0	38963			5		0.423529	24		14.715 4.686305	850	154	150.4
87444 2.048599 19.29363 5 20.25831 1.47 87444 2.048599 19.29363 5 20.25831 1.47 4.5 0 15 0 0 15 0 4.5 0 15 0 0 0 0 0 0 4.5 0 15 0					2.366916	9.932581	5		1.657143	18	18 13.51539 7.652023	7.652023	1750	150	121
87444 2.048599 19.29363 5 20.25831 1.47 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0			48481		2.048599	19.29363	5		0.74	27	27 26.62815 6.700486	6.700486	1000	113	105.6
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	_	2.048599	19.29363	5		1.470588	24	24 27.41978 8.732414	8.732414	1700	105	80
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15		ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15	0	ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15	0	ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15	0	ERR		ERR	ERR			
0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15	0	ERR		ERR	ERR			
0 0 0 0 0 0 0 0 0 0 0 0 0					4.5	0	15	0	ERR		ERR	ERR			
0 15 0					4.5	0	15	0	ERR		ERR	ERR			
0 15 0					4.5	0	15	0	ERR		ERR	ERR			
15					4.5	0	15	0	ERR		ERR	ERR			
0 0					4.5	0	15	0	ERR		ERR	ERR			

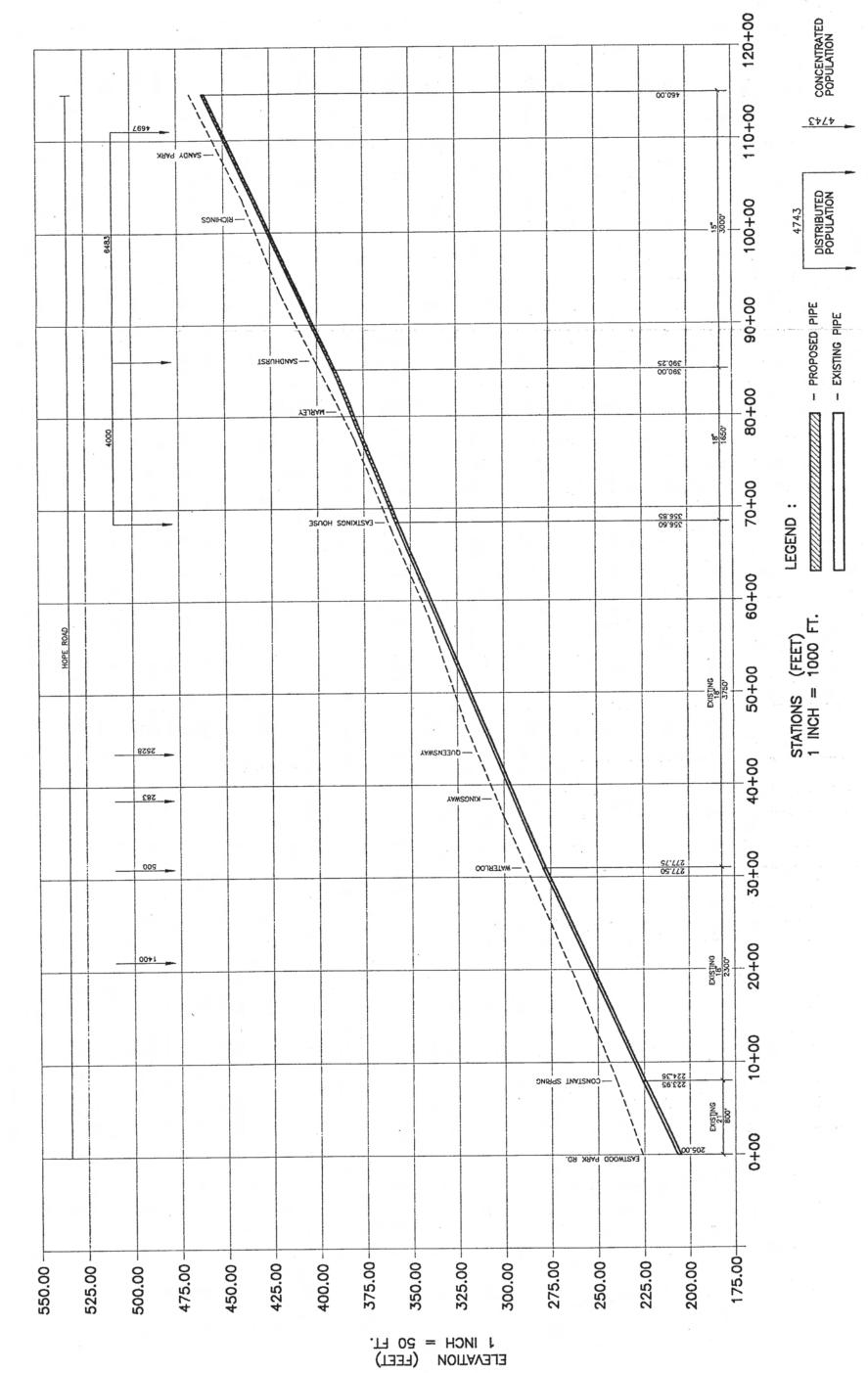
*2600 feet - 12 inch dia., 300 feet - 15 inch dia., and 300 feet - 18 inch dia.

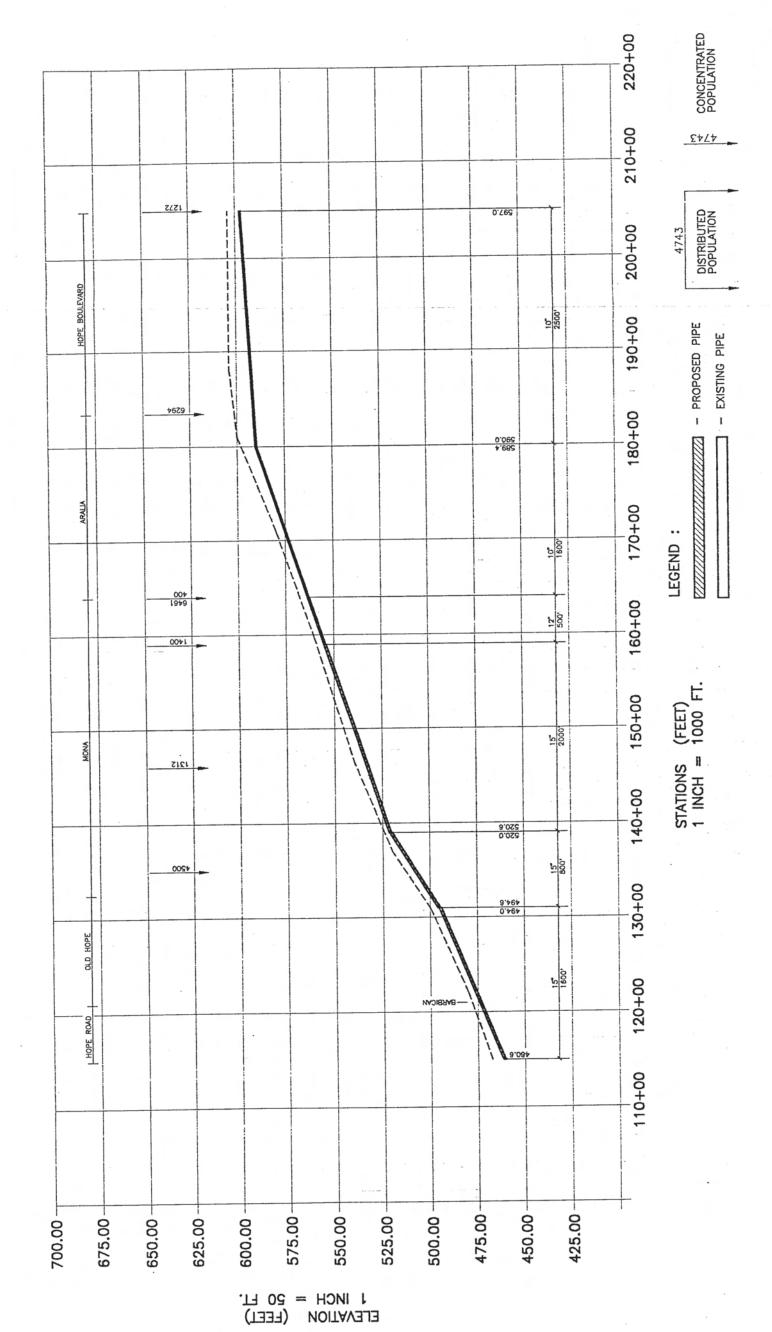


ELEVATION (FEET) 1 INCH = 20 FT.

0.013		LOWER	INVERT	175.4	175.4	158	158	120	113	113	113	113															
=u	PROFILE	UPPER	INVERT	232	232	175	175	155	120	120	120	120															
58		LENGTH	FT.	2100	2100	1150 *	1150 *	1800	4000	4000	4000	4000															
	Z	^	FPS	5.594976	3.594976	5.515408	7.227229	3.288846	3.258438	3.258438	3.258438	3.012367	ERR														
DESIGN FLOW (igpd)	SEWER DESIGN	8	CFS	3.595178 6.594976	10 3.595178 6.594976	12 4.329596 5.515408	18 12.76509 7.227229	18 14.64017 8.288846	27 12.94924 3.258438	27 12.94924 3.258438	27 12.94924 3.258438	24 9.458831 3.012367	ERR														
DESIGN F	SEW	DIAM.	INCHES	10	10	12	18	18	27	27	27	24															
		SLOPE	%	2.695238	2.695238	1.478261	1.478261	1.944444	0.175	0.175	0.175	0.175	ERR														
		TOTAL	QCFS	3.136887	3.319691	3.319691	8.837687	10.83785	10.83785	11.28025	12.22533	7.46429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DESIGN FLOW	INFILTR.	% OF FLOW	5	5	5	5	5	5	5	5	5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Trunk No. 4	DESIG	SEWAGE	CFS 8	2.987511	3.161611	3.161611	8.416845	10.32176	10.32176	10.74309	11.64317	7.108848	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_		PEAK	FACTOR	2.986486		2.957977					2.287396	2.538627	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	NOI	CUMMULATIVE	Ь	9288	9924	9924	31880	40824	40824		47261	26000															
	POPULATION	INDIVIDUAL	d	9288	969	0	21956	8944	0	2033	4404	26000															
	STREET/ROAD		TO																								
	STREE		FROM																								
	LOCATION			REDHILLS	FAIRDENE	FAIRDENE	MOLYNES	SHORTON	MOLYNES	MOLYNES	MOLYNES	SHORTON															

NOTES: * 750 feet - 12 inch dia, and 400 feet - 18 inch dia.



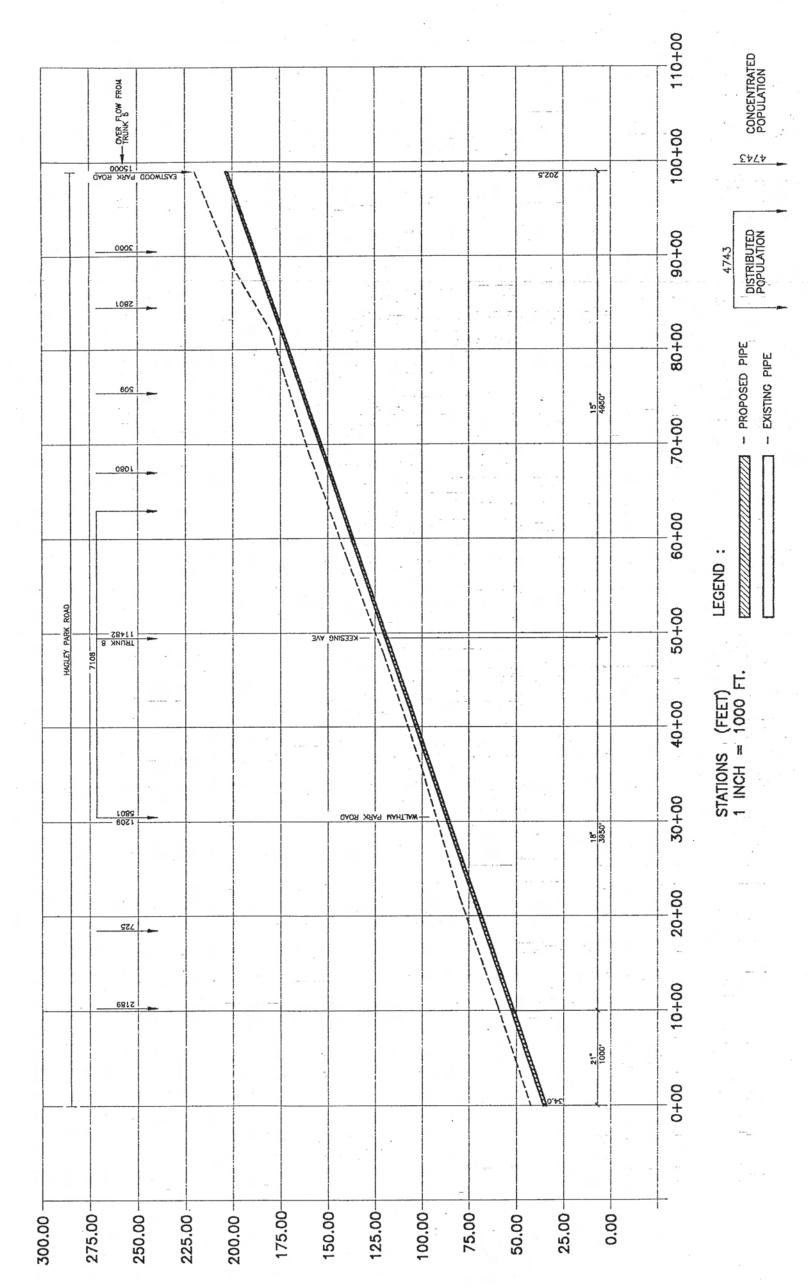


200	1	LOWER	INVERT	290	520.6	520.6	520.6	520.6	494.6	460.6			356.6			224.36		205										
111111111111111111111111111111111111111	PROFIL	UPPER	INVERT	297	589.4	589.4	589.4	589.4	520	494	494	460	390	356.6	356.6	277.5	277.5	223.95										
3		LENGTH	H.	2500	4100 *	4100 *	4100 *	4100 *	800	1600	1600	3000	1650	3750 **	3750 **	2300 **	2300 **	*** 008										
N	2	^	FPS	2.125659	5.203756	4.6129 5.876306	5.818849	5.818849	9.379521	7.6054	5.782079	3.029267	8.457219	3.633143	3.633143	9.035312	9.035312	9.148627	0	ERR	001							
CENVED DECION	טופשט אם	0	CFS	1.15878 2.125659	2.83677 5.203756	4.6129	5 8.363745 6.818849	15 8.363745 6.818849	15 11.50457 9.379521	15 9.328498	15 8.318644 6.782079	15 9.848398 8.029267	18 14.93756 8.457219	18 15.24829 8.633143	18 15.24829 8.633143	18 15.95862 9.035312	18 15.95862 9.035312	18 16.15876 9.148627	0	ERR	000							
CEIVI	SEVA	DIAM.	INCHES	10	10	12	15	15	15	15	15	15	18	18	18	18	18	18										
	-	SLOPE	*	0.28	1.678049	1.678049	1.678049	1.678049	3.175	2.0875	1.66	2.326667	2.024242	2.109333	2.109333	2.310435	2.310435	2.36875		ERR	CCL							
		TOTAL	QCFS	0.536581	2.630082	4.56053	4.93058	5.271781	6.406937	6.406937	7.544271	9.052289	9.953787	10.51383	10.57609	10.68588	10.99195	10.99195	0	0	0	0	0	0	0	0	0	0
DECICAL CLOW	I LLOVY	INFILTR.	% OF FLOW	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	15	15	15	15	15	15	15	15	15	37
DECION	DESIG	SEWAGE	CFS 9	0.51103	2.50484	4.343362	4.69579	5.020744	6.101845	6.101845	7.18502	8.621227	9.479797	10.01317	10.07247	10.17703	10.46852	10.46852	0	0	0	0	0	0	0	0	0	C
		PEAK	FACTOR	3.7302	3.073879	2.795266	2.754756	2.719917	2.618165	2.618165	2.533094	2.439028	2.390563	2.362833	2.359852	4643	2.340434	2.340434	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	27
INOI	NO	CUMMULATIVE	А	1272	7566	14427	15827	17139	21639	21639	26336	32819	36819	39347	39630	40130 2.35	41530	41530										
NOITA II Idod	20101	INDIVIDUAL	۵,	1272	6294	6861	1400	1312	4500	0	4697	6483	4000	2528	283	200	1400	0										
UVOQ/	CAOA!		TO																									
CTDEET/DOAD	SINEE		FROM																									
MOITAGO	LOCATION			HOPE	ARALIA	MONA	MONA	MONA	HOPE	HOPE	HOPE	HOPE	HOPE	HOPE	HOPE	HOPE	HOPE	MIN SLOPE										

NOTES: * 1600 feet - 10 inch dia., 500 feet - 12 inch dia., and 2000 feet - 15 inch dia.

^{**} Existing 18 inch dia.

^{***} Existing 21 inch dia.



ELEVATION (FEET) 1 INCH = 50 FT.

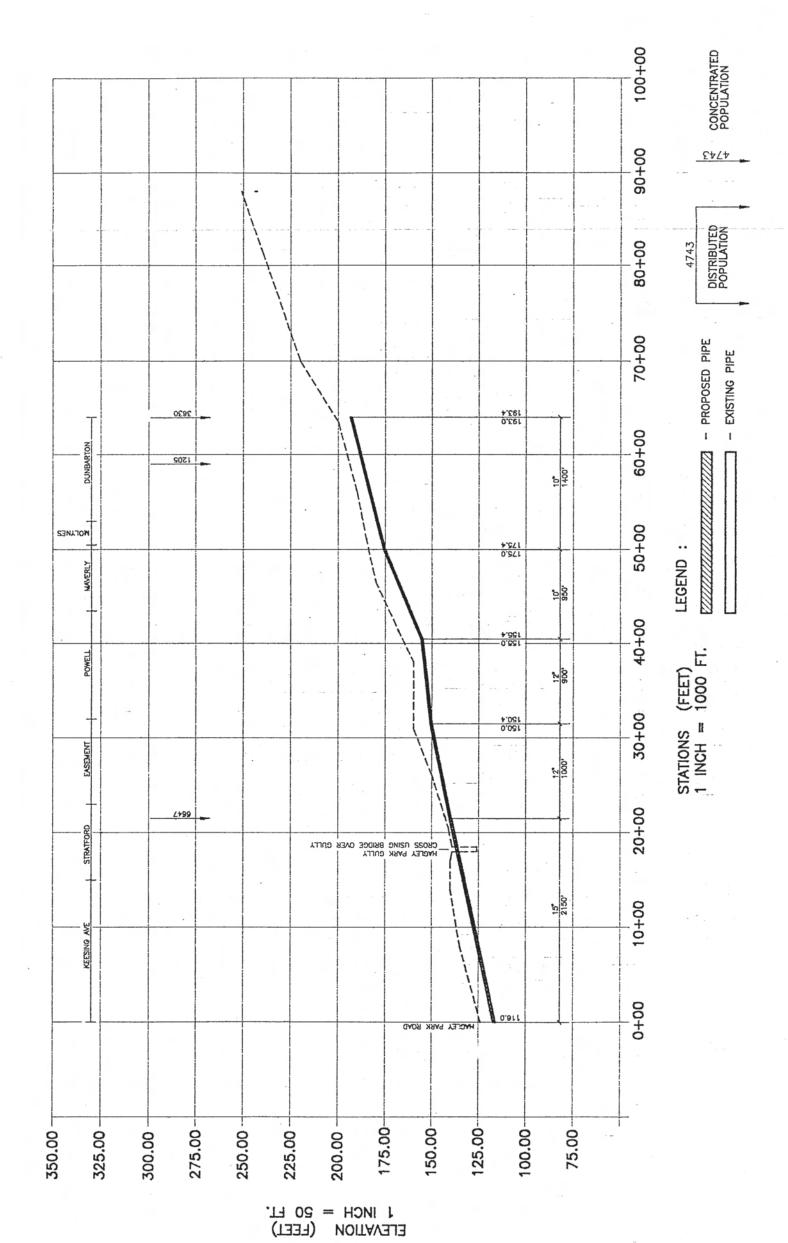
0.013		LOWER	INVERT	34	34	34	34	34	34	34	34	34	34	34	34										
=u	PROFILE	UPPER	INVERT	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5										
58		LENGTH	Н.	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066	* 0066										
()	NS	^	FPS	6.867381	6.867381	6.867381	6.867381	6.867381	6.867381	7.754944	7.754944	7.754944	7.754944	7.754944	7.754944	ERR									
DESIGN FLOW (igpd)	SEWER DESIGN	8	CFS	15 8.423272 6.867381	15 8.423272 6.867381	15 8.423272 6.867381	15 8.423272 6.867381	15 8.423272 6.867381	15 8.423272 6.867381	18 13.69717 7.754944	18 13.69717 7.754944	18 13.69717 7.754944	18 13.69717 7.754944	18 13.69717 7.754944	18 13.69717 7.754944	ERR									
DESIGN F	SEV	DIAM.	INCHES	15	15	15	15	15	15	18		18	18	18	18										
		SLOPE	%	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	1.70202	ERR									
		TOTAL	QCFS	5.492988	6.199265	6.372846	6.498383	6.498383	6.764877	9.451621	10.0342	10.7409	11.00502	11.69426	12.18982	0	0	0	0	0	0	0	0	0	0
9	DESIGN FLOW	INFILTR.	% OF FLOW	5	5	5	5	5	5	5	5	5	5	10	10	15	15	15	15	15	15	15	15	15	15
Trunk No. 6	DESIG	SEWAGE	CFS 9	5.231418	5.904062	6.069377	6.188936	6.188936	6.44274	9.001544	9.55638	10.22943	10.48097	10.63114	11.08165	0	0	0	0	0	0	0	0	0	0
		PEAK	FACTOR	2.698485	2.635359		22010 2.610773		23098 2.589818		2.386476	2.352055	41590 2.339837	2.332699	2.311951	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	NOI	CUMMULATIVE	d	18000	20801	21501	22010	22010	23098	34580		40381	41590	42315	44204										
	POPULATION	INDIVIDUAL	Ь	18000	2801	2007	609	0	1088	11482	2600	3201	1209	725	2189										
	/ROAD		TO																						
	STREET/ROAD		FROM																						
	LOCATION			HAGLEY		HAGLEY	HAGLEY																		

NOTES: *4950 feet - 15 inch dia., and 4950 feet - 18 inch dia.

TRUNK 7 NOVEMBER, 1993

CFS FPS 2.63937 4.84164 4.28412 5.45747 7.76762 6.33284 5.81485 4.74077	FPS 4.84164 5.45747 6.33284 4.74077 8.43801	31 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2										FT. 1900 • 1900 • 1900 • 1800 1000 1000 1000 1000 1000 1000	FT. FT. 1900 • 1	1900 • 19	1900 • 19	1900 • 19	FT. INVE 1900 •	FT. INVE 1900 •	
1 - 0	CFS 53937 28412 76762 31485 31485 52384		6.3 6.3 6.3 6.3 6.3 6.3 6.3	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 8.43801 5.97331 ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	6.33284 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 4.74077 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	FPS 4.84164 5.45747 6.33284 4.74077 4.74077 8.43801 5.97331 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER
10 12 15 15	10 12 15 15 15	10 10 12 15 15 15 16 17 18	10 10 12 15 15 16 17 18	10 10 12 15 15 16 18	10 10 12 15 15 15 16 17 17 18 18	10 10 12 15 15 15 16 17 17 18 18 18	10 10 12 15 15 15 17 17 18 18	10 10 12 15 15 15 17 17 18 18	10 10 12 15 15 17 17 18 18	10 10 12 15 15 17 17 18	10 10 12 15 15 17 18 18	10 10 12 15 15 11 18	10 10 12 15 15 11 18 18	10 12 15 15 16 17 18	10 12 15 15 16 18	10 12 15 15 11 18 18	10 10 12 15 15 15 16 17 18 18	10 10 12 15 15 16 17 18 18	10 10 12 15 15 16 17 18 18
2.628882 1.452632 4.288566 1.447368 4.557063 1.447368 5.196543 0.811111	1.44 1.44 0.81 0.81	111001	1.44 1.44 1.44 0.81 1.00	1.45 1.44 0.81 1.00 1.00	1.45 1.44 0.81 1.00 1.00	1.45 1.44 1.44 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 1.00 1.00 1.00	1.45 1.44 1.44 0.81 1.00	1.45 1.44 1.44 0.81 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 1.00 1.00	1.45 1.44 1.44 0.81 0.81 1.00 1.00	1.45 1.44 1.44 0.81 0.81 1.00 1.00	1.45 1.44 1.44 0.81 0.81 1.00 1.00
4.084349 5 4.28 4.34006 5 4.56 4.949089 5 5.18	2022	0 2 2 2 2 2	200000000	100000000000000000000000000000000000000	17 10 10 10 10 10 10 10 10 10 10 10 10 10	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
13414 2.827077 4.084; 14414 2.79566 4.34 16848 2.727407 4.949	2.827077 2.79566 2.727407 2.667976 2.61582	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.73566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.827077 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.79566 2.79566 2.727407 2.667976 2.61582 2.61582 2.61582 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5
	HAM HAM HAM	THAM THAM THAM THAM ODPECKER	THAM THAM THAM ODPECKER	THAM THAM THAM DPECKER	HAM HAM DPECKER	HAM HAM HAM PECKER	HAM HAM HAM PECKER	HAM HAM HAM PECKER	HAM HAM HAM HECKER	HAM HAM DPECKER	HAM HAM HAM DPECKER	THAM THAM THAM DPECKER	THAM THAM THAM OPECKER	THAM THAM THAM ODPECKER	THAM THAM ODPECKER	THAM THAM ODPECKER	THAM THAM ODPECKER	LTHAM THAM ODPECKER	WALTHAM WALTHAM WOODPECKER
	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 21756 2.61582 6.129341 10 6.742275 1.00	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 0 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0</td> <td>19302 2.667976 5.5464 5 6.82372 0.81 21756 2.61582 6.129341 10 6.742275 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td> <td>19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 10 6.742275 1.000 21756 2.61582 6.129341 10 6.742275 1.000 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15</td>	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0	19302 2.667976 5.5464 5 6.82372 0.81 21756 2.61582 6.129341 10 6.742275 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 5 6.435808 1.00 21756 2.61582 6.129341 10 6.742275 1.00 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15	19302 2.667976 5.5464 5 5.82372 0.81 21756 2.61582 6.129341 10 6.742275 1.000 21756 2.61582 6.129341 10 6.742275 1.000 4.5 0 15 0 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15 0 4.5 0 15

* 500 feet - 12 inch dia., and 1400 feet - 15 inch dia.

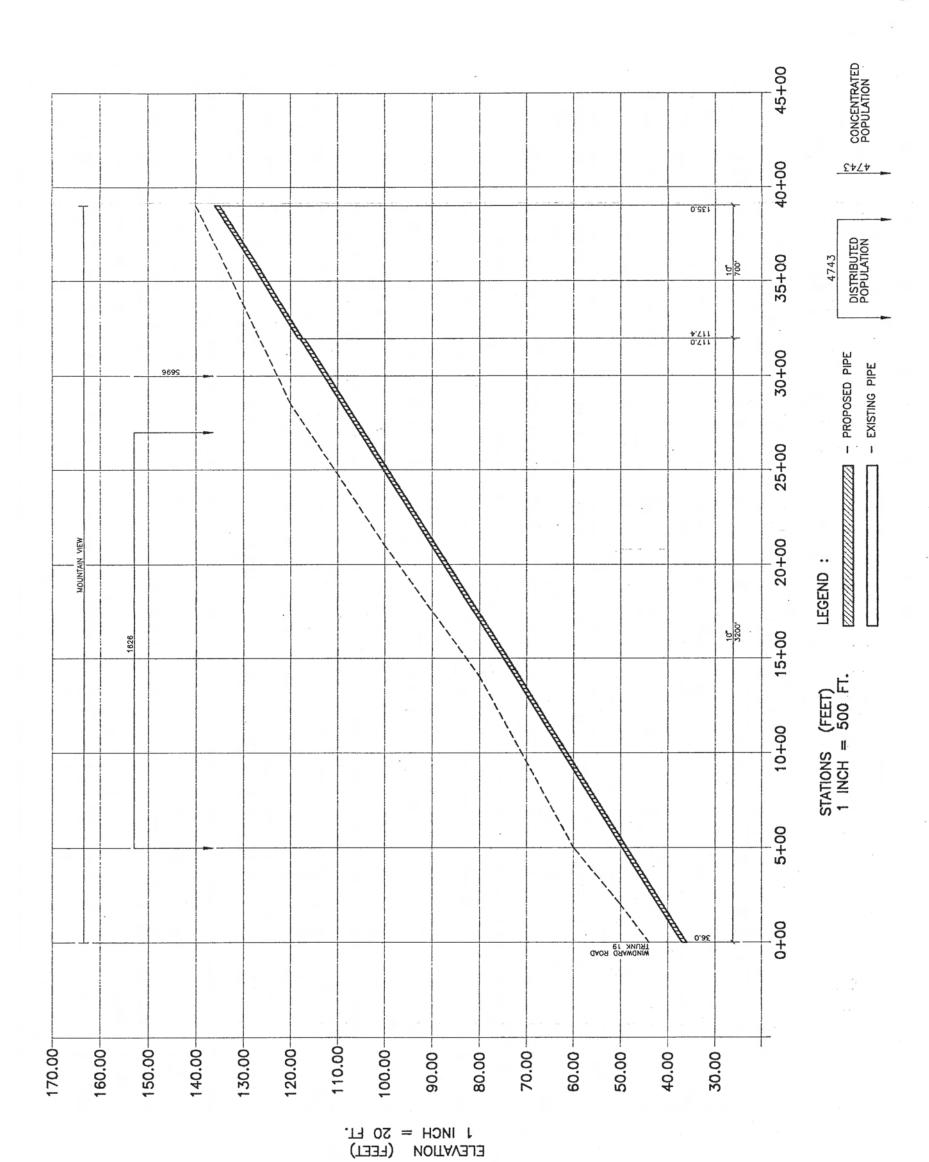


0.013		LOWER	INVERT	215.4	193.4	175.4	155.4	150.4	116	116																			
=u	PROFILE	UPPER	INVERT	243	215	193	175	155	150	150						OK.													
28		LENGTH	FT.	1600	800	1400	950	006	3150 *	3150 *																			
	Z	۸	FPS	4.546765	5.688396	4.504089	5.770067	2.54583 3.243096	3.69961 4.712879	6.70784 5.468812	ERR																		
DESIGN FLOW (igpd)	SEWER DESIGN	8	CFS	1.586316	8 1.984618 5.688396	10 2.455354 4.504089	10 3.145488 5.770067	2.54583	1		ERR																		
DESIGN F	SEW	DIAM.	INCHES	8	8	10	10	12	12	15																			
		SLOPE	%	1.725	2.7	1.257143	2.063158	0.511111	1.079365	1.079365	ERR																		
		TOTAL	QCFS	1.027469	1.383732	1.781671	1.781671	1.781671	1.781671	3.758871	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DESIGN FLOW	INFILTR.	% OF FLOW	5	5	5	5	5	5	2	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Trunk No. 8	DESIG	SEWAGE	CFS 9	0.978542	1.31784	1.69683	1.69683	1.69683	1.69683	3.579877	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		PEAK	FACTOR	3.494454	3.370769	3.258479	3.258479	3.258479	3.258479	2.894834	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	ION	CUMMULATIVE	A	2600	3630		4835	4835		11482																			
	POPULATION	INDIVIDUAL C	Д	2600	1030	1205		0	0	6647																			
	/ROAD		TO																										
	STREET/ROAD		FROM																										
	LOCATION			DUMBARTON	DUMBARTON	DUMBARTON		POWELL	KEESING	KEESING																			

NOTES: * 1000 feet - 12 inch dia., and 2150 feet - 15 inch dia.

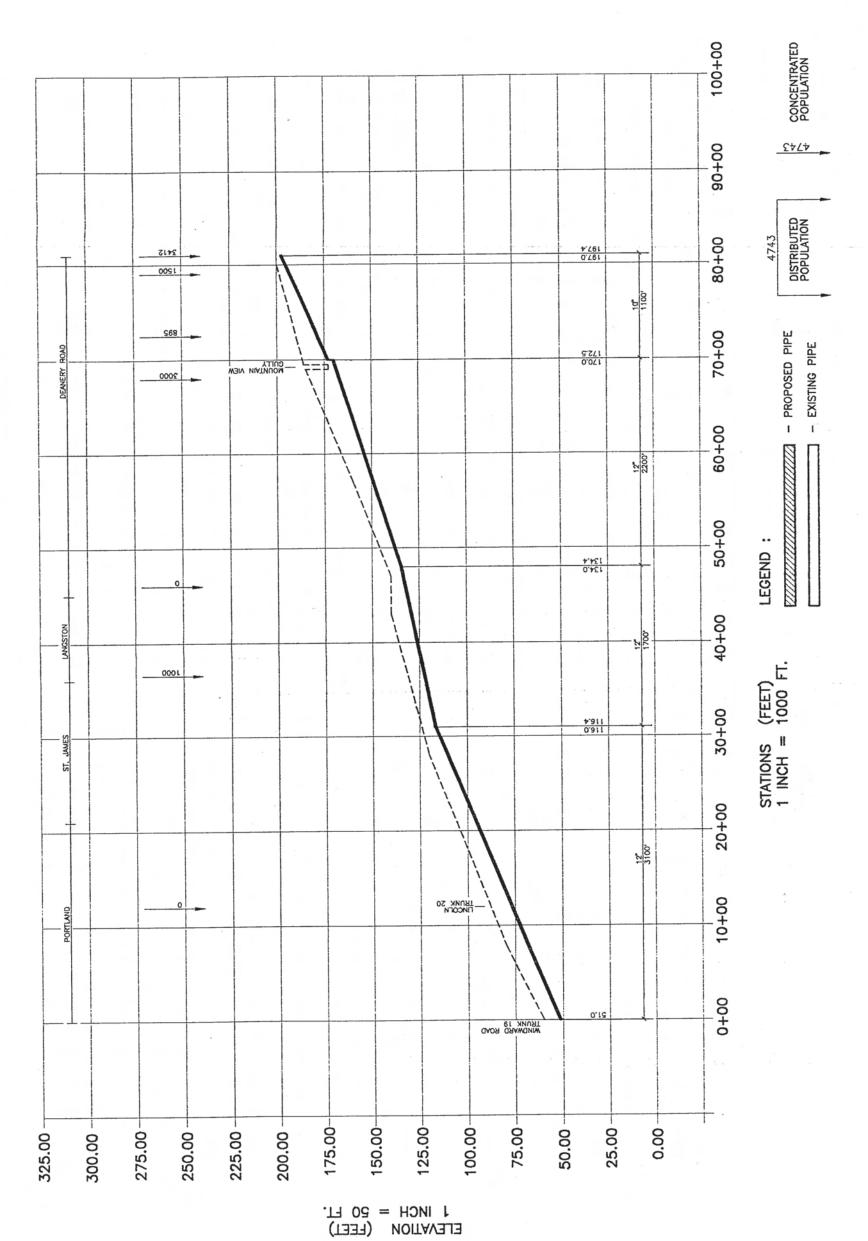
0.013		LOWER	INVERT	108.6	45																							
=u	PROFILE	UPPER	INVERT	117	108										3													
28		LENGTH	FT.	750	3000																							
	7	۸	FPS	3.66368	5.01669	ERR																						
OW (igpd)	SEWER DESIGN	8	CFS	1.27822	1.75027	ERR																						
DESIGN FLOW (igpd)	SEWE	DIAM.	INCHES	8	8																							
٥		SLOPE	%	1.12	2.1	ERR																						
		TOTAL	QCFS	0.757503	0.984756	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	DESIGN FLOW	INFILTR.	% OF FLOW	5	10	10	10	10	10	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Trunk No. 9	DESIG	SEWAGE	CFS	0.721432	0.895233	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		PEAK	FACTOR	3.610974	3.529541	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	ION	CUMMULATIV	Ь	1855	2355																							
	POPULATION	INDIVIDUAL	Ь	1885	200																							
	/ROAD		TO																									
	STREET/ROAD		FROM																									
	LOCATION			WATERLOO	WATERLOO																							

Largest pipe diameter is 8 inches, and considered a local sewer. There is no separate profile; nor is it shown on Fig. 5.1

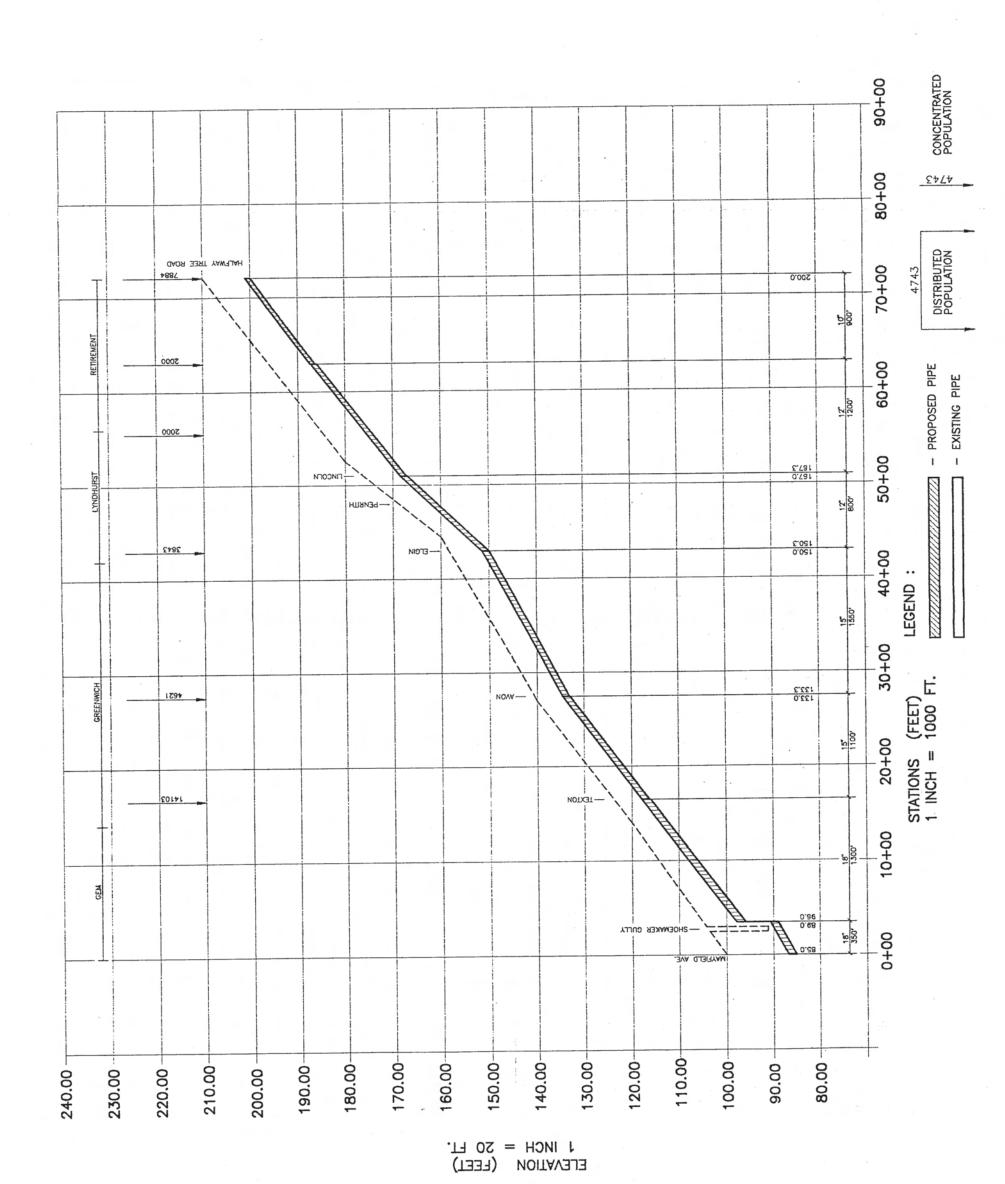


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	LOWER	INVERT	115.3	34																							
PROFILE	UPPER	INVERT	130	68																							
	LENGTH	FT.	1850	2050																							
z	^	FPS	3.580861	5.173413	ERR	663																					
SEWER DESIGN	8	CFS	1.952066 3.580861	10 2.820229 5.173413	ERR	GGS																					
SEWE	DIAM.	INCHES	10	10	15	15	15	21	24	27																	
	SLOPE	%	0.7945946	1.6585366	ERR	COD																					
	TOTAL	QCFS	1.8659863 0.7945946	10 2.2247431	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DESIGN FLOW	INFILTR	% OF FLOW	5	10	10	10	10	10	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
DESIG	SEWAGE	CFS	1.77771298	768691 2.0224937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	FACTOR	5097 3.2372603 1.7771298	3.1768691	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	AF
NOI	CUMMULATIVE	d	2605	5911 3.1																							
POPULATION	INDIVIDUAL	Ь	2005	814																							
ROAD		OL																									
STREET/ROAD		FROM																									
LOCATION			WILDE	WILDE																							

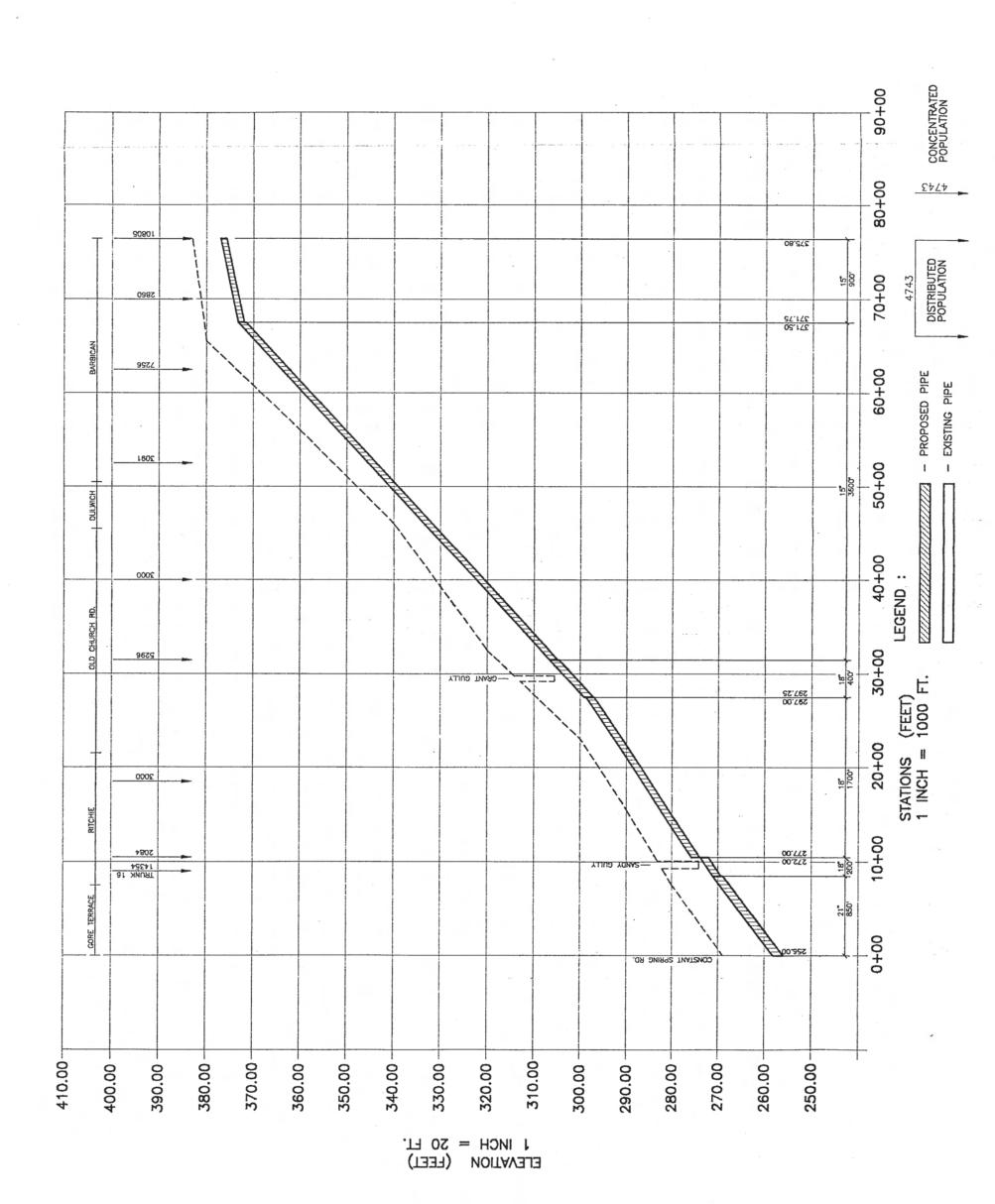


0.013		LOWER	INVERT	197.4	197.4	172.5	172.5	134.4	116.4	116.4	51																	
="	PROFILE	UPPER	INVERT	232	232	197	197	170	134	134	116																	
58		LENGTH	FT.	1100	1100	1100	1100	2200	1700	1700	3100																	
	7	۸	FPS	6.139736	6.139736	5.995168	5.995168	5.770531	4.615662	4.615662	5.568678	ERR																
OW (igpd)	SEWER DESIGN	8	CFS	2.142086 6.139736	8 2.142086 6.139736	10 3.268199 5.995168	10 3.268199 5.995168	12 4.529867 5.770531	12 3.623295 4.615662	12 3.623295 4.615662	12 5.156412 6.568678	ERR																
DESIGN FLOW (igpd)	SEW	DIAM.	INCHES	8	8	10	10	12	12	12	12																	
		SLOPE	%	3.145455	3.145455	2.227273	2.227273	1.618182	1.035294	1.035294	2.096774	ERR																
		TOTAL	QCFS	0.778601	1.30972	1.806526	2.091046	2.997142		3.286225	3.442712	0	0	0	0	0 .	0	0	0	0	0	0	0	0	0	0	0	0
3	I FLOW	INFILTR.	% OF FLOW	5	5	5	5	5	5	5	10		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Trunk No. 13	DESIGN FLOW	SEWAGE	CFS %	0.741525	1.247353	1.720501	1.991472	2.854421	2.854421	3.129738	3.129738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		PEAK	FACTOR	3.600901	3.394325	3.252142	3.184165			2.96309	2.96309	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	ATION	CUMMULATIV	Р	1912	3412		5807	8807	8807	9807	9807																	
	POPULATION	INDIVIDUAL	Ь	1912	1500	1500	895	3000	0	1000	0																	
	ROAD		TO																								-	
	STREET/ROAD		FROM																									
	LOCATION			DEANERY	DEANERY	DEANERY	DEANERY	DEANERY	LANGSTON	LANGSTON	PORTLAND																	



SEWER DESIGN PROFILE		V LENGTH UPPER LOWER	V LENGTH UPPER FPS FT. INVERT	V LENGTH UPPER LO FPS FT. INVERT IN 5.012782 2100 * 200	LENOTH UPPER FT. INVERT 200 2100 2	LENGTH UPPER LO	LENGTH UPPER LG LC LC LC LC LC LC LC	V LENGTH UPPER LG FP3 FT. INVERT INVERT IN 5.012782 2100 * 200 200 5.660651 2100 * 200 200 6.554135 800 167 5.46388 1550 150	V LENGTH UPPER LOWER FPS FT. INVERT INVERT 5.012782 2100 * 200 16 5.660651 2100 * 200 16 6.554135 800 167 15 5.46388 1550 133 6.53588 2400 ** 133	V LENGTH UPPER LOWER FPS FT. INVERT INVERT 5.012782 2100 * 200 16 5.660651 2100 * 200 16 6.554135 800 167 15 5.46388 1550 150 13 6.53588 2400 ** 133 7.380598 2400 ** 133	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	FT. INVERT INVERT 2100 * 200 165 2100 * 200 165 2100 * 200 165 1550 1550 1550 1550 133 2400 ** 133 350 89	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	FT. INVERT INVER	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW	LENGTH UPPER LOWER LOW
	V LENGTH	The second name of the second na	FPS FT.	FPS FT. INVE	FT. INVE	FT. INVE	FT. INVE 2100 * 2100 * 2100 * 800	5.012782 2100 * 5.660651 2100 * 5.660651 2100 * 6.554135 800 5.46388 1550	5.012782 2100 * 5.660651 2100 * 5.660651 2100 * 6.554135 800 5.46388 1550 **	5.012782 2100 * 5.660651 2100 * 5.660651 2100 * 6.554135 800 * 5.46388 1550 ** 6.53588 2400 **	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2400 ** 1 2400 ** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2400 ** 1 2400 ** 1 350	FT. INVEX 2100 * 22100 * 22100 * 22100 * 22100 * 22400 ** 1 22400 ** 1 350	FT. INVEX 2100 * 22100 * 22100 * 22100 * 22100 * 22400 ** 1 22400 ** 1 350	FT. INVEX 2100 * 22100 * 22100 * 22100 * 22100 * 22400 ** 1 22400 ** 1 350	FT. INVEX 2100 * 22100 * 22100 * 22100 * 22100 * 22400 * 1 22400 ** 1 350	FT. INVEX 2100 * 2100 * 22100 * 22100 * 22100 * 22400 * 1 22400 ** 1 350	FT. INVEX 2100 * 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2400 ** 1 2400 ** 1 350	FT. INVEX 2100 * 2100 * 22100 * 22100 * 22100 * 22400 ** 1 22400 ** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 4 1 1550 1 1 2400 *** 1 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 4 1 1550 1 1 2400 ** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 4 1 1550 * 1 2400 *** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 4 1 1550 * 1 1550 * 1 1550 * 1 1 2400 *** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 4 1 1550 * 1 1550 * 1 1 2400 *** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 1 1550 * 1 2400 *** 1 350 *** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2400 ** 1 2400 *** 1 350	FT. INVEX 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 2 2100 * 1 1550 * 1 1550 * 1 2400 *** 1 350
V LENGTH		FPS FT.		5.012782	01-			5.012782 5.660651 5.660651 6.554135 5.46388	5.012782 5.660651 5.660651 6.554135 5.46388 6.53588	5.012782 5.660651 6.554135 5.46388 6.53588 7.380598																	
V FPS	FPS		5.012782					5.660651 5.660651 6.554135 5.46388	5.660651 5.660651 6.554135 5.46388 6.53588	5.660651 5.660651 6.554135 5.46388 6.53588 7.380598																	
V FPS	CFS	2 732662	2.132003	12 4.443611 5.660651		12 4.443611 5.660651	2 4.443611 5.660651 2 5.144996 6.554135	47	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588	12 4.443611 5.860651 12 5.144996 6.554135 15 6.701791 5.46388 15 8.016665 6.53588 18 13.03598 7.380598	12 4.443611 5.660651 12 5.144996 6.554135 15 6.701791 5.46388 15 8.016665 6.53588 18 13.03598 7.380598 18 11.22392 6.354659	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016865 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR	2 4.443611 5.660651 2 5.144996 6.554135 5 6.701791 5.46388 5 8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR	2 4.443611 5.660651 5.614996 6.554135 5.6.701791 5.46388 5.8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	2 4.443611 5.660651 5.614996 6.554135 5.6.701791 5.46388 5.8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	2 4.443611 5.660651 5.614996 6.554135 5.6.701791 5.46388 5.8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	2 4.443611 5.660651 5.614996 6.554135 5.6.701791 5.46388 5.8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	2 4.443611 5.660651 5.614996 6.554135 5.6.701791 5.46388 5.8.016665 6.53588 8 13.03598 7.380598 8 11.22392 6.354659 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER
DIAM. Q INCHES CFS 10 2.732663 5.0 12 4.443611 5.6	CFS 10 2.732663 12 4.443611	2.732663	12 4 443611 5 6	***************************************	12 4.443611 5.6		12 5.144996 6.5	12 5.144996 6.5 15 6.701791 5.	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6.	12 5.144996 6.5 15 6.701791 5 15 8.016665 6 18 13.03598 7.3	12 5.144996 6.5 15 6.701791 5 15 8.016665 6 18 13.03598 7.3 18 11.22392 6.3	12 5.144996 6.5 15 6.701791 5 15 8.016665 6 18 13.03598 7.3 18 11.22392 6.3 ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6 18 13.03598 7.3 18 11.22392 6.3 ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6. 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	12 5.144996 6.5 15 6.701791 5. 15 8.016665 6.3 18 13.03598 7.3 18 11.22392 6.3 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER
DIAM. INCHES	INCHES				1.55/143	2 0875			1.541667	1.541667 1.541667	1.077419 1.541667 1.541667 1.142857	1.077419 1.541667 1.541667 1.142857 ERR	1.077419 1.541667 1.541667 1.142857 ERR	1.07.7419 1.541667 1.541667 1.142857 ERR ERR	1.07.07.0 1.547667 1.541667 1.142857 ERR ERR ERR ERR	1.077419 1.547667 1.541667 1.142857 ERR ERR ERR ERR ERR	1.077419 1.541667 1.541667 1.541667 1.142857 ERR ERR ERR ERR ERR ERR	1.077419 1.541667 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR	1.077419 1.541667 1.541667 1.142857 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR	1.077419 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.077419 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.077419 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.541667 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.077419 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.541667 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.541667 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER	1.541667 1.541667 1.541667 1.142857 1.142857 ERR ERR ERR ERR ERR ERR ERR ERR ERR ER
2.725086 3.308258	2.725086 3.308258	3.308258	3.308258	3 870365	0.00	5 4.851822 2.	A 054077	4.001022	6.036328	6.036328 9.823856	6.036328 9.823856 9.823856	6.036328 6.036328 9.823856 9.823856	9.823856 9.823856 0 0 0	6.036328 6.036328 9.823856 0 0 0	6.036328 6.036328 9.823856 0 0 0 0	6.036328 6.03628 6.03628 6.03628 6.03628 6.03628	6.036328 6.036328 9.823856 9.823856 0 0 0 0	6.036328 6.036328 9.823856 9.823856 0 0 0 0 0	6.036328 6.036328 9.823856 0 0 0 0 0 0 0 0	6.036328 6.036328 9.823856 0 0 0 0 0 0 0 0 0 0	6.036328 6.036328 9.823856 0 0 0 0 0 0 0 0 0 0 0 0 0						
NFILTR. % OF FLOW 5	% OF FLOW 5	ע ט ט	2	2	2	0	5 4.8	4	0	10	100	10	10 10 51	10 10 51	0 1 1 5 1 5 1 5 1 5 1	01 10 15 15 15 15 15 15 15 15 15 15 15 15 15	100000000000000000000000000000000000000	15 15 15 15 15 15 15 15 15 15 15 15 15 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CFS 2.59532 3.150722 3.686062 4.620782	2.59532 3.150722 3.686062 4.620782						4.620782	5.748884	0777000																		
PEAK FACTOR 3.056451 2.959719 2.879871 2.763128	3.056451 2.959719 2.879871 2.763128	3.056451 2.959719 2.879871 2.763128	2.959719 2.879871 2.763128	2.763128	2.763128	00,000	2.763128	2.649261	2.420968		2.420968	2.420968	2.420968 4.5	2.420968 4.5 4.5	2.420968 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	2.420968 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4.5	2.420968 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4.5	2.420968 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4.5	2.420968 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4.5
CUMMULATIVE P 7884 9884	7884					15527	15527	20148	34251	07501	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251	34251
P 7884 2000 2000		2000	2000	2000	-	3643	0	4621	14103		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO T	70								-	1	\dagger																
FROM																											
	FROM																										

NOTES: * 900 feet - 10 inch dia., and 1200 feet - 12 inch dia.



LOCATION BARBICAN BARBICAN	TUCHO							The second secon		10 CO	100				0.00
BARBICAN	S KE	STREET/ROAD	POPULATION	ATION		DESIG	DESIGN FLOW			SEW	SEWER DESIGN	N		PROFILE	Е
BARBICAN			INDIVIDUAL	CUMMULATIVE	PEAK	SEWAGE	INFILTR.	TOTAL	SLOPE	DIAM.	8	Λ	LENGTH	UPPER	LOWER
BARBICAN	FROM	то	Ь	Δ.	FACTOR	CFS	%FLOW	QCFS	%	INCHES	CFS	FPS	FT.	INVERT	INVERT
BARBICAN			10805	10805	2.921204	3.399489	5	3.569463	0.455556	15	4.35782	3.55287	006	375.8	371.7
			2860	13665	2.81898	4.148858	5	4.356301	0.455556	15	4.35782	3.55287	900	375.8	371.7
BARBICAN			7256	20921	2.632853	5.932476	5	6.2291	1.8575	15	8.7996	7.1742	4000	371.5	297.2
BARBICAN			3091	24012	2.572998	6.654181	5	6.98689	1.8575	15	8.7996	7.1742	4000	371.5	297.2
OLD CHURCH			3000	27012	2.522185	7.33771	5	7.704595	1.8575	15	8.7996	7.1742	4000	371.5	297.2
OLD CHURCH			5296			2.445682 8.510144	5	8.935651	1.8575	18	14.3091	8.10141	4000	371.5	297.2
RITCHIE			3000	35308	2.40816	9.157677	5	9.615561	1.176471	18	11,3878	6.44743	1700	297	277
RITCHIE			2084	37392	2.384097	9.601288	5	10.08135	1.176471	18	11.3878	6.44743	1700	297	277
GORE TERRACE			0	37392	2.384097 9.601288	9.601288	5	10.08135	1.52381	18	12.9603	7.33773	1050 *	272	256
GORE TERRACE			14354	51746	2.250729	12.54374	5	13.17092	1.52381	21	19.5496	8.13192	1050 *	272	256
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			
					4.5	0	15	0	ERR		ERR	ERR			

* 200 feet - 18 inch dia., and 850 feet - 21 inch dia.

