EMH&T
Engineers, Surveyors, Planners, Scientists

STORM SEWER COMPUTATION SHEET

SHT 1

Project: **Amlin Area Infrastructure Improvements**
Job No.: **2020-0219**
Intensity Reference: Franklin County

Date: 11/16/20
By: EAM
Checked:

Revised:
Revised:

5 Yr Design Storm n= **0.012**

Struc.	Struc. Index	Sta.	Drainage Area Trib	Cumul.	C	Cumul CA	Time Delta t Min.	Sum t Min.	Intensity in/hr	Des Q CFS	Length ft.	Dia. In	Slope%	Vel	Cap. Flowing Full	Status	In	Out	TC	Remarks	25 YEAR HYDRAULIC GRADE LINE 25 Yr Rainfall Intensity	Discharge Q	Slope %	Minor Losses	25 Yr HGL w/ minor losses
56	CB7	7+22.12	0.14	0.14	0.66		5.00	5.00	6.10	0.56							940.59		943.40						
Catch Basin 2-2C			0.00		0.66	0.09					102.62	12	0.40%	3.1	2.4	OK				1.64 ft. cover	7.37	0.68	0.0309	0.0052	941.98
ODOT CB-1.1																				2.81 ft. depth					ok
55	CB7	6+19.50	0.25	0.39	0.64		0.55	5.55	5.89	1.49							940.08	940.18	942.60	0.10 DROP					
Catch Basin 2-2C			0.00		0.64	0.25					115.00	12	0.40%	3.1	2.4	OK				1.25 ft. cover	7.17	1.81	0.2185	0.0371	941.94
ODOT CB-1.1																				2.52 ft. depth					ok
54	CB7	5+04.50	0.48	0.87	0.64		0.62	6.16	5.67	3.17							939.37	939.62	941.40	0.25 DROP					
Catch Basin 2-2C			0.00		0.64	0.56					125.00	15	0.32%	3.2	4.0	OK				0.59 ft. cover	6.96	3.89	0.3079	0.0704	941.66
ODOT CB-1.1																				2.03 ft. depth					problem
53	CB7	3+79.50	0.42	1.29	0.64		0.64	6.81	5.47	4.53							938.87	938.97	940.70	0.10 DROP					
Catch Basin 2-2C			0.00		0.64	0.83					125.00	15	0.44%	3.8	4.7	OK				0.29 ft. cover	6.75	5.60	0.6358	0.1453	941.20
ODOT CB-1.1																				1.83 ft. depth					problem
52	CB7	2+54.50	0.39	1.68	0.65		0.55	7.36	5.30	5.74							938.22	938.32	940.60	0.10 DROP					
Catch Basin 2-2C			0.00		0.65	1.08					125.00	15	1.00%	5.7	7.0	OK				0.84 ft. cover	6.59	7.13	1.0326	0.2359	940.26
ODOT CB-1.1																				2.38 ft. depth					ok
51	CB7	1+29.50	0.45	2.13	0.63		0.36	7.72	5.20	7.10							936.87	936.97	940.60	0.10 DROP					
Catch Basin 2-2C			0.00		0.63	1.37					107.97	15	1.04%	5.8	7.2	OK				2.19 ft. cover	6.49	8.86	1.5933	0.3640	938.73
ODOT CB-1.1																				3.73 ft. depth					ok
50	CB7	0+21.53	0.87	3.39	0.64		0.31	8.03	5.12	11.11							935.65	935.75	940.30	0.10 DROP					
Catch Basin 2-2C			0.39		0.64	2.17					21.53	15	2.56%	9.1	11.2	OK				3.11 ft. cover	6.40	13.90	3.9261	1.6942	936.65
ODOT CB-1.1																				4.65 ft. depth					ok
Ex	MH0	0+00.00	0.00	3.39	0.64		0.04	8.07	5.10	11.09							935.00	935.10	940.70	0.10 DROP					
Existing Manhole			0.00		0.64	2.17						15								4.16 ft. cover					
0																				5.70 ft. depth					

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SHT 2

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59	CB7	2+97.40	0.06	0.06	0.64		5.00	5.00	6.10	0.23							937.15		940.00						
Catch Basin 2-2C			0.00		0.64	0.04					86.30	12	0.40%	3.1	2.4	OK				1.68 ft. cover	7.37	0.28	0.0053	0.0009	937.95
ODOT CB-1.1																				2.85 ft. depth					ok
58	CB7	2+11.10	0.00	0.06	0.64		0.46	5.46	5.92	0.23							936.70	936.80	939.90	0.10 DROP					
Catch Basin 2-2C			0.00		0.64	0.04					29.06	12	0.40%	3.1	2.4	OK				1.93 ft. cover	7.20	0.28	0.0051	0.0012	937.50
ODOT CB-1.1																				3.20 ft. depth					ok
57	CB7	1+82.04	0.33	0.39	0.64		0.16	5.62	5.87	1.46							936.48	936.58	939.80	0.10 DROP					
Catch Basin 2-2C			0.00		0.64	0.25					182.04	12	0.40%	3.1	2.4	OK				2.05 ft. cover	7.14	1.78	0.2122	0.0360	937.28
ODOT CB-1.1																				3.32 ft. depth					ok
50	CB7	0+00.00	0.00	0.39	0.64		0.97	6.59	5.53	1.38							935.65	935.75	940.30	0.10 DROP					
Catch Basin 2-2C			0.00		0.64	0.25					0.01	12	0.40%	3.1	2.4	OK				3.38 ft. cover	6.82	1.70	0.1936	0.0000	936.45
ODOT CB-1.1																				4.65 ft. depth					ok