GRAVITY SEWER IMPROVEMENTS
FOR PEMBROKE CITY
BRYAN COUNTY, GEORGIA
DATE: JUN 11, 2021

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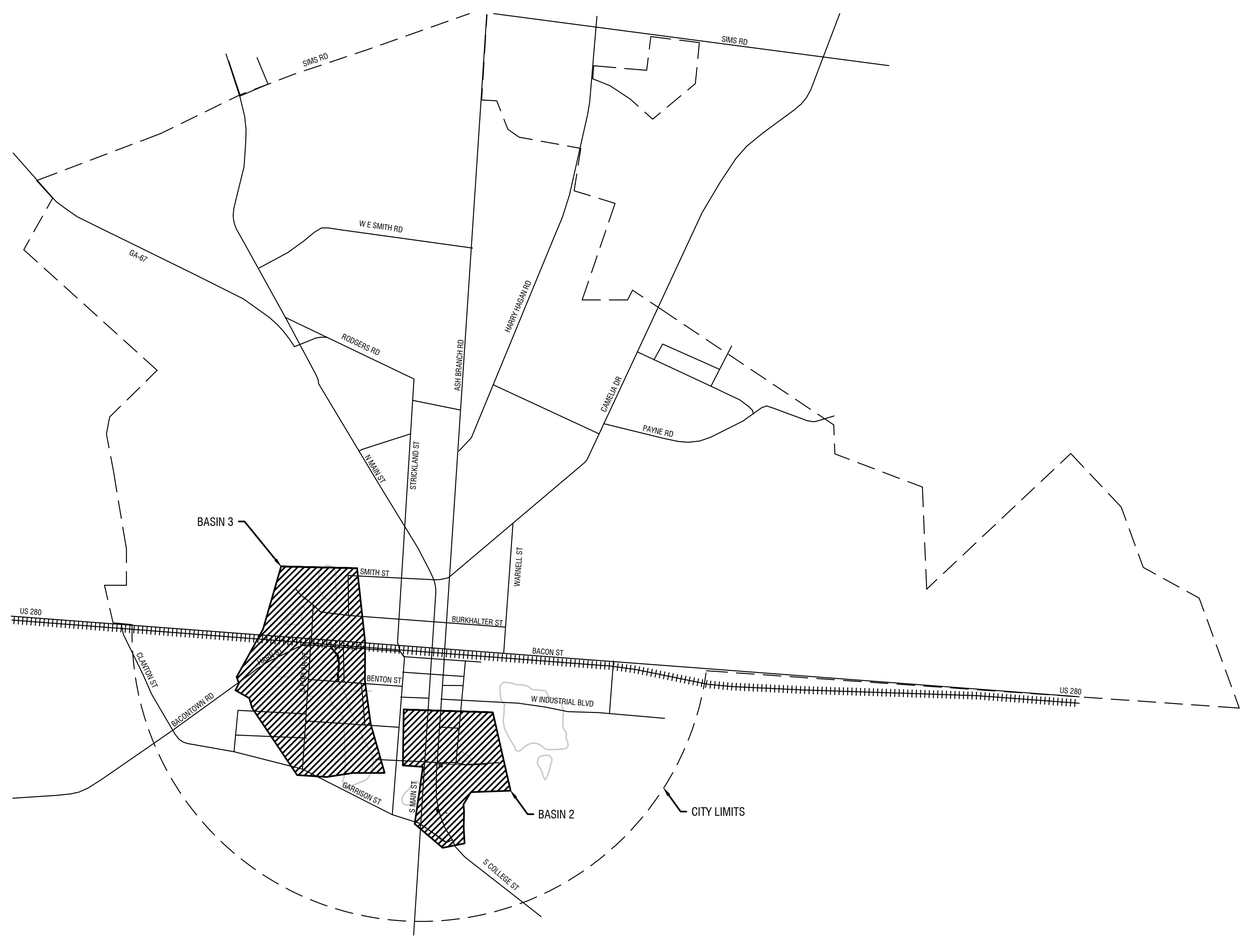
DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		SS
UNDERGROUND WATER LINE	W	W
FORCE MAIN	FM	FM
STORM DRAINAGE PIPE		
TELEPHONE LINE	UGT	T
UNDERGROUND TELEPHONE CONDUIT	TC	TC
UNDERGROUND GAS LINE	GAS	GAS
DITCH CENTERLINE		
SPOT ELEVATION	X=90.00	X=90.00
TOP OF CURB ELEVATION	TC=90.00	TC=90.00
FIRE HYDRANT		
SEWER MANHOLE	S	S
WATER VALVE	W	W
TELEPHONE MANHOLE		T
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH	SM	SM



VICINITY MAP

Not To Scale

GEORGIA 811
Utilities Protection Center, Inc.

Know what's **below.**
Call before you dig.

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

GPS COORDINATES OF CO:
E: 81° 37'27.6"
N: 32°8'14.4"

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

DESIGN PROFESSIONAL:

GEORGIA REGISTERED No. 22024 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

JOB NO. 2017-89PRJ

REVISION NO.	DATE	DESCRIPTION

COVER SHEET

PLOT DATE: June 16, 2021

BASIN 2

MANHOLES - COAT WITH LINER

Manhole ID	Top Elevation ft	Invert, ft	X Coordinate	Y Coordinate	Vertical Feet
MH B2-01	84.19	77.82	824721.82	775047.57	11.37
MH B2-02	84.08	75.74	824700.58	775055.64	8.34
MH B2-03	84.55	73.08	824665.91	775074.14	11.47
MH B2-04	85.08	75.00	824641.52	774752.88	10.08
MH B2-05	82.49	76.30	824630.10	774431.43	6.19
MH B2-06	85.27	77.30	824710.78	774108.26	7.97
MH B2-09	84.08	76.05	824716.81	775073.00	8.03
MH B2-10	84.58	76.60	824871.25	775065.04	7.98
MH B2-12	84.94	77.40	825043.64	775058.32	7.54
MH B2-13	84.70	77.90	825167.23	775057.13	6.80
MH B2-16	84.40	78.44	825315.00	775053.31	5.96
MH B2-17	85.76	79.32	825827.89	775080.68	6.44
MH B2-18	85.37	79.00	825069.77	775354.99	6.37
MH B2-19	87.71	80.20	825097.04	775654.48	7.51
MH B2-20	83.98	78.52	824445.70	775084.73	5.46
MH B2-21	84.78	79.10	824309.11	775103.70	5.68
MH B2-24	85.97	79.62	824310.94	775249.56	6.35
MH B2-25	85.94	79.57	824324.81	775247.60	6.37
MH B2-27	85.42	80.70	824464.22	775378.47	4.72
MH B2-28	87.48	83.96	824486.22	775627.25	3.52

SEWER TAP - REPLACE/REPAIR

Sewer Line	Initial MH	End MH	Alignment	Location ft
SL-2-08	B2-03	B2-20	DR-RUN-2-1A	1+73.40
SL-2-05	B2-04	B2-05	DR-RUN-2-1C	1+75.00
SL-2-01	B2-07	B2-08	DR-RUN-2-1C	11+15.58
SL-2-03	B2-06	B2-22	DR-RUN-2-2C	0.99.99
SL-2-03	B2-06	B2-22	DR-RUN-2-2C	1+08.74
SL-2-03	B2-06	B2-22	DR-RUN-2-2C	1+88.58
SL-2-03	B2-06	B2-22	DR-RUN-2-2C	2+96.24

SEWER LINES - LINE WITH CIPP

Sewer Line	Length	X Coordinate From	Y Coordinate From	Initial Manhole	X Coordinate To	Y Coordinate To	End Manhole	Material Type	Diameter (in)	Notes
SL-2-01	243	824791.9280	773866.9600	MH B2-07	824898.9253	773648.4174	MH B2-08	CLAY	8	ROOT REMOVAL
SL-2-02	255	824710.7858	774108.2686	MH B2-06	824791.9280	773866.9600	MH B2-07	CLAY	8	
SL-2-03	349	824710.7858	774108.2686	MH B2-06	824436.9821	773892.4999	MH B2-22	CLAY	8	REPLACE 12FT SECTION
SL-2-04	333	824630.1022	774431.4315	MH B2-05	824710.7858	774108.2686	MH B2-06	CLAY	8	
SL-2-05	322	824641.5269	774752.8806	MH B2-04	824630.1022	774431.4315	MH B2-05	CLAY	8	
SL-2-06	322	824665.9190	775074.1420	MH B2-03	824641.5269	774752.8806	MH B2-04	CLAY	8	
SL-2-07	39	824700.5800	775055.6480	MH B2-02	824665.9190	775074.1420	MH B2-03	CLAY	8	
SL-2-08	220	824665.9190	775074.1420	MH B2-03	824445.7030	775084.7300	MH B2-20	CLAY	8	MH B2-20 BURIED
SL-2-09	138	824445.7030	775055.6480	MH B2-20	824309.1170	775103.7070	MH B2-21	CLAY	8	MH B2-20 BURIED
SL-2-10	142	724309.1170	775074.1420	MH B2-21	824167.6170	775113.1360	MH B2-23	CLAY	8	
SL-2-11	149	724445.7030	775084.7300	MH B2-20	824455.4480	775233.2790	MH B2-26	CLAY	8	
SL-2-12	131	824455.4480	775103.7070	MH B2-26	824324.8190	775247.6030	MH B2-25	CLAY	8	
SL-2-13	14	824324.8190	775094.7300	MH B2-25	824310.9410	775249.5690	MH B2-24	CLAY	8	
SL-2-14	145	824455.4480	775233.2790	MH B2-26	824464.2260	775378.4700	MH B2-27	CLAY	8	
SL-2-15	250	824464.2260	775378.4700	MH B2-27	824486.2250	775627.2570	MH B2-28	CLAY	8	
SL-2-16	132	824464.2260	775378.4700	MH B2-27	824337.2342	775414.6010	MH B2-29	CLAY	8	
SL-2-17	279	824337.2342	775414.6010	MH B2-29	824287.9285	775688.9066	MH B2-30	CLAY	8	
SL-2-18	276	824297.9285	775688.9066	MH B2-30	824239.3174	775960.4343	MH B2-31	CLAY	8	
SL-2-19	24	824700.5800	775055.6480	MH B2-02	0824716.8150	775073.0040	MH B2-09	CLAY	8	
SL-2-20	457	824716.8150	775073.0040	MH B2-09	824732.4768	775529.7793	MH B2-32	CLAY	8	
SL-2-21	112	824732.4768	775529.7793	MH B2-32	824748.3200	775640.5110	MH B2-33	CLAY	8	
SL-2-22	142	824748.3200	775640.5110	MH B2-33	824757.5630	775782.1180	MH B2-34	CLAY	8	
SL-2-23	155	824716.8150	775073.0040	MH B2-09	824871.2590	775065.0440	MH B2-10	CLAY	8	
SL-2-24	142	824871.2590	775065.0440	MH B2-10	825012.8920	775059.1610	MH B2-11	CLAY	8	
SL-2-25	31	824012.8920	775059.1610	MH B2-11	825043.6480	775058.3270	MH B2-12	CLAY	8	
SL-2-26	124	82504336480	775058.3270	MH B2-12	825167.2380	775057.1330	MH B2-13	CLAY	8	
SL-2-27	148	824167.2380	775057.1330	MH B2-13	825315.0070	775053.3150	MH B2-16	CLAY	8	
SL-2-28	308	824315.0070	775053.3150	MH B2-16	825623.0910	775058.4350	MH B2-TBD-01	CLAY	8	
SL-2-29	206	824623.0910	775058.4350	MH B2-TBD-01	825827.8906	775080.6821	MH B2-17	CLAY	8	
SL-2-30	298	825043.6480	775058.3270	MH B2-12	825069.7760	775354.9910	MH B2-18	CLAY	8	
SL-2-31	301	825069.7760	775354.9910	MH B2-18	825097.0430	775654.4860	MH B2-19	CLAY	8	
SL-2-32	202	824871.2590	775065.0440	MH B2-10	824833.2683	774866.2472	MH B2-35	CLAY	8	
SL-2-33	93	824833.2683	774866.2472	MH B2-35	824911.2668	774815.8223	MH B2-36	CLAY	8	
SL-2-34	325	82491.2668	774815.7223	MH B2-36	825105.3642	774554.7849	MH B2-37	CLAY	8	
SL-2-35	85	825167.2380	775057.1330	MH B2-13	825166.4169	774972.4182	MH B2-14	CLAY	8	
SL-2-36	301	825166.4169	774972.4182	MH B2-14	825335.0517	774722.9269	MH B2-TBD-02	CLAY	8	
SL-2-37	107	825335.0517	774722.9269	MH B2-TBD-02	825404.5827	774641.9376	MH B2-15	CLAY	8	
SL-2-38	23	824721.8820	775047.5673	MH B2-01	824700.5800	775055.6480	MH B2-02	CLAY	8	
SL-2-39	30	824741.0427	775024.6317	WW-B2	824721.8220	775047.5673	MH B2-01	CLAY	8	

BASIN 3

MANHOLES - COAT WITH LINER

Manhole ID	Top Elevation ft	Invert, ft	X Coordinate	Y Coordinate	Vertical Feet
MH B3-02	89.00	76.40	822264.44	776651.72	12.6
MH B3-06	90.13	80.81	822219.10	775980.82	9.32
MH B3-19	89.75	85.67	823495.59	775127.92	4.08
MH B3-21	90.04	85.14	823361.29	775494.98	4.90
MH B3-22	88.89	76.95	822500.63	776635.65	11.94
MH B3-23	88.72	79.20	822802.62	776610.05	9.52
MH B3-28	91.15	80.40	822803.63	776944.64	10.75
MH B3-29	89.91	81.70	822808.59	777233.72	8.21
MH B3-45	86.90	76.99	822060.70	776717.94	9.91
MH B3-46	89.49	79.49	821715.66	776765.46	10.00
MH B3-49	89.16	79.82	821672.00	776850.37	9.34
MH B3-51	87.90	81.22	821363.76	776675.75	5.37
MH B3-52	88.01	82.64	821032.16	776492.08	9.91
MH B3-55	90.41	84.67	821427.63	777308.25	5.74

SEWER TAP - REPLACE/REPAIR

Sewer Line	Initial MH	End MH	Alignment	Location ft
SL-2-08	MH B3-49	MH B3-51	DR-RUN-3-1A	6+68.70
SL-2-05	MH B3-49	MH B3-51	DR-RUN-3-1A	7+87.90
SL-2-01	MH B3-49	MH B3-51	DR-RUN-3-1A	8+03.65
SL-2-03	MH B3-49	MH B3-51	DR-RUN-3-1A	9+07.20
SL-2-03	MH B3-46	MH B3-47	DR-RUN-3-2A	1+44.15
SL-2-03	MH B3-31	MH B3-34	DR-RUN-3-3B	1+30.30
SL-2-03	MH B3-22	MH B3-23	DR-RUN-3-1C	3+43.32
SL-2-03	MH B3-23	MH B3-28	DR-RUN-3-1C	8+35.02
SL-2-03	MH B3-28	MH B3-29	DR-RUN-3-1C	11+75.00
SL-2-03	MH B3-23	MH B3-29	DR-RUN-3-2C	1+67.80

SEWER LINES - LINE WITH CIPP

Sewer Line	Length	X Coordinate From	Y Coordinate From	Initial Manhole	X Coordinate To	Y Coordinate To	End Manhole	Material Type	Diameter (in)	Notes
SL-3-01	87	822188.3020	776694.6350	MH B3-01	822264.4470	776651.7210	MH B3-02	CLAY	8	
SL-3-02	335	822264.4470	776651.7210	MH B3-02	822242.7616	77317.6330	MH B3-05	CLAY	8	
SL-3-03	338	822242.7616	776317.6330	MH B3-05	822219.1072	775980.8276	MH B3-06	CLAY	8	
SL-3-04	92	822219.1072	775980.8276	MH B3-06	822211.0777	775889.4646	MH B3-07	CLAY	8	
SL-3-05	171	822211.0777	775889.4646	MH B3-07	822198.4008	775719.0447	MH B3-10	CLAY	8	
SL-3-06	399	822198.4008	775719.0447	MH B3-10	822175.3848	775320.7479	MH B3-11	CLAY	8	
SL-3-07	305	822175.3848	775320.7479	MH B3-11	822138.2123	775017.6127	MH B3-12	CLAY	8	
SL-3-08	78	822138.2123	775017.6127	MH B3-12	822191.8795	774961.0180	MH B3-13	CLAY	8	
SL-3-09	370	822211.0777	775889.4646	MH B3-07	822579.9650	775864.3725	MH B3-08	CLAY	8	
SL-3-10	92	822579.9650	775864.3725	MH B3-08	8226713.6225	775863.8725	MH B3-09	CLAY	8	
SL-3-11	251	822219.1072	775980.8276	MH B3-06	821968.8901	775993.1973	MH B3-14	CLAY	8	
SL-3-12	248	821968.8901	775993.1973	MH B3-14	821721.7115	776008.1711	MH B3-15	CLAY	8	
SL-3-13	230	821721.7115	776008.1711	MH B3-15	821491.8918	776023.3895	MH B3-16	CLAY	8	
SL-3-14	212	821491.8918	776023.3895	MH B3-16	821279.7698	776033.1736	MH B3-17	CLAY	8	
SL-3-15	237	822264.4470	776651.7210	MH B3-02	822500.6361	776635.6590	MH B3-22	CLAY	8	
SL-3-16	303	822500.6361	776635.6590	MH B3-22	822802.6290	776610.0590	MH B3-23	CLAY	8	
SL-3-17	221	822802.6290	776610.0590	MH B3-23	823023.2477	776593.1003	MH B3-24	CLAY	8	
SL-3-18	219	823023.2477	776593.1003	MH B3-24	823242.2240	776578.0610	MH B3-25	CLAY	8	
SL-3-19	127	8232472.2240	776578.6010	MH B3-25	823251.7790	776451.2876	MH B3-26	CLAY	8	
SL-3-20	402	828251.7790	776451.2876	MH B3-	823272.7425	776049.5949	MH B3-27	CLAY	8	
SL-3-21	335	822802.6290	776610.0590	MH B3-23	822803.6314	776944.6403	MH B3-28	CLAY	8	REPLACE 20FT SECTION, CLEAN TO REMOVE ENCRUSTATION
SL-3-22	289	822803.6303	776944.6403	MH B3-28	822808.5960	777233.7200	MH B3-29	CLAY	8	
SL-3-23	148	822808.5960	777233.7200	MH B3-29	822661.2785	777245.3100	MH B3-30	CLAY	8	
SL-3-24	391	822661.2785	777245.3100	MH B3-30	822700.3520	777633.9350	MH B3-31	CLAY/CAST IRON	8	REMOVE TUBERCULATION ON 122FT CAST IRON PIPE
SL-3-25	228	822700.3520	777633.9350	MH B3-31	822927.1629	777609.2541	MH B3-34	CLAY	8	
SL-3-26	225	822927.1629	777609.2541	MH B3-34	823150.1120	777582.5360	MH B3-35	CLAY	8	
SL-3-27	240	822700.3520	777633.9350	MH B3-31	822460.1700	777636.3840	MH B3-32	CLAY	8	
SL-3-28	250	822460.1700	777636.3840	MH B3-32	822210.3370	777636.5240	MH B3-33	CLAY	8	
SL-3-29	213	822700.3520	777633..9350	MH B3-31	822775.8226	777901.4120	MH B3-36	CLAY	8	
SL-3-30	278	822775.8226	777901.4120	MH B3-36	822553.6446	7780340.5046	MH B3-37	CLAY	8	
SL-3-31	259	822553.6446	778034.5046	MH B3-37	822421.8735	778191.2756	MH B3-38	CLAY	8	
SL-3-32	205	822421.8735	778191.2756	MH B3-38	822206.2486	778391.2755	MH B3-39	CLAY	8	
SL-3-33	294	822206.2486	778391.2755	MH B3-39	822095.3115	778487.6297	MH B3-40	CLAY	8	
SL-3-34	147	822095.3112	778487.6297	MH B3-40	821947.3945	778370.9629	MH B3-TBD-07	CLAY	8	
SL-3-35	188	822775.8226	777901.4120	MH B3-36	823010.6833	777880.6293	MH B3-41	CLAY	8	

SEWER LINES - LINE WITH CIPP

Sewer Line	Length	X Coordinate From	Y Coordinate From	Initial Manhole	X Coordinate To	Y Coordinate To	End Manhole	Material Type	Diameter (in)	Notes
SL-3-36	236	822775.8226	777901.4120	MH B3-36	823010.6833	777880.6293	MH B3-41	CLAY	8	
SL-3-37	364	823010.6833	777880.6293	MH B3-41	822999.4419	778244.3273	MH B3-42	CLAY	8	
SL-3-38	142	822999.4419	778244.3273	MH B3-42	822996.4042	778385.9261	MH B3-43	CLAY	8	
SL-3-39	130	822188.3020	776694.6350	MH B3-01	822060.7040	776717.9410	MH B3-45	CLAY	8	
SL-3-40	348	822060.7040	776717.9410	MH B3-45	821715.6648	776765.4694	MH B3-46	CLAY	8	
SL-3-41	169	821715.6648	776765.4694	MH B3-46	821786.8540	776612.3150	MH B3-47	CLAY	8	
SL-3-42	252	821786.8540	776612.3150	MH B3-47	821969.5086	776439.3626	MH B3-TBD-02	CLAY	8	
SL-3-43	128	82199.5086	776439.3626	MH B3-TBD-02	822036.1860	776330.4410	MH B3-48	CLAY	8	
SL-3-45	273	821786.8540	776612.3150	MH B3-47	821629.6215	776540.8537	MH B3-TBD-06	CLAY	8	
SL-3-46	403	821629.6215	776540.8537	MH B3-TBD-06	821239.3148	776438.5636	MH B3-TBD-05	CLAY	8	
SL-3-47	95	821715.648	776765.4694	MH B3-46	821672.0080	776850.3760	MH B3-49	CLAY	8	
SL-3-48	365	821672.0080	776850..3760	MH B3-49	822093.9713	777044.8593	MH B3-50	CLAY	8	
SL-3-49	354	821672.0080	776850.3760	MH B3-49	821363.9354	776675.4380	MH B3-51	CLAY	8	CLEAN TO REMOVE INCRUSTATION
SL-3-50	379	821363.9354	776675.4380	MH B3-51	821032.1660	776492.0815	MH B3-52	CLAY	8	
SL-3-51	99	821032.1660	776492.0815	MH B3-52	820946.0546	776444.1646	MH B3-TBD-01	CLAY	8	
SL-3-52	159	821032.1660	776492.0815	MH B3-52	820960.0411	776633.4877	MH B3-TBD-04	CLAY	8	
SL-3-53	202	8216782.0080	776850.3760	MH B3-49	821581.3930	777030.6410	MH B3-54	CLAY	8	
SL-3-54	277	822264.4470	776651.7210	MH B3-02	822282.9660	776927.7080	MH B3-03	CLAY	8	
SL-3-55	562	823272.7425	776049.5949	MH B3-27	823361.2940	775494.9820	MH B3-21	CLAY	8	
SL-3-56	340	823361.2940	775494.9820	MH B3-21	823521.4530	775194.8300	MH B3-20	CLAY	8	
SL-3-57	72	823521.4530	775194.8300	MH B3-20	823495.5950	775127.9280	MH B3-19	CLAY	8	
SL-3-58	226	823495.5950	775127.9280	MH B3-19	823449.1933	774906.9505	MH B3-18	CLAY	8	
SL-3-59	88	822036.1860	776330.4410	MH B3-48	821953.0173	776301.1488	MH B3-TBD-03	CLAY	8	
SL-3-60	317	821581.3930	777030.6410	MH B3-54	821427.6370	777308.2500	MH B3-55	CLAY	8	
SL-3-61	234	822282.9660	776927.7080	MH B3-03	822299.4930	777161.1060	MH B3-04	CLAY	8	

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 70248 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

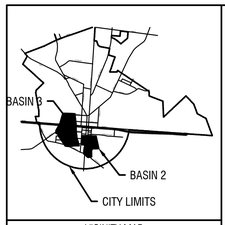
GRAVITY SEWER IMPROVEMENTS

Overall Improvements List

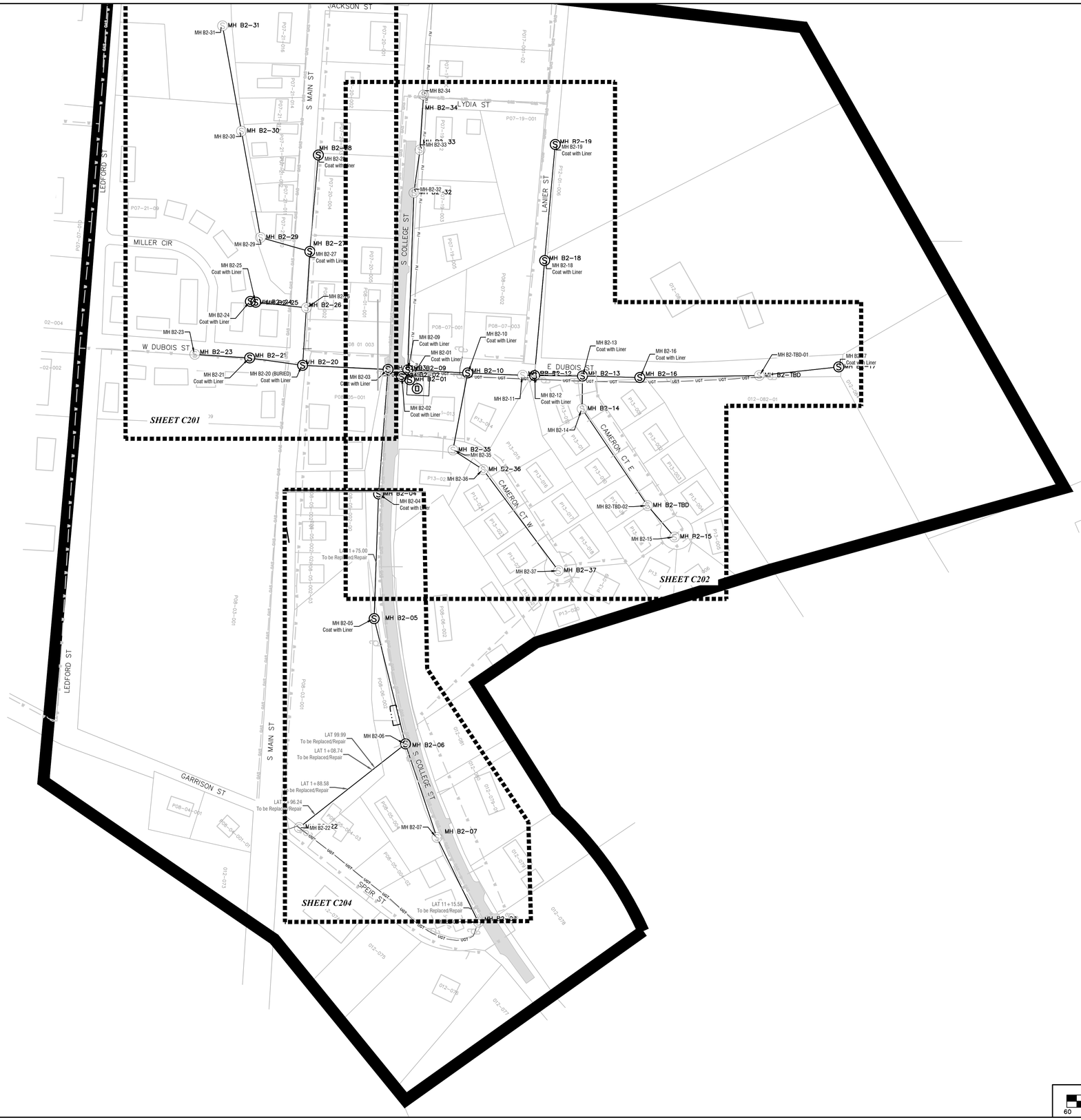
C100

FILE NO: 2017-89

PLOT DATE: June 16, 2021



VICINITY MAP
NOT TO SCALE



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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 20207 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

GRAVITY SEWER IMPROVEMENTS

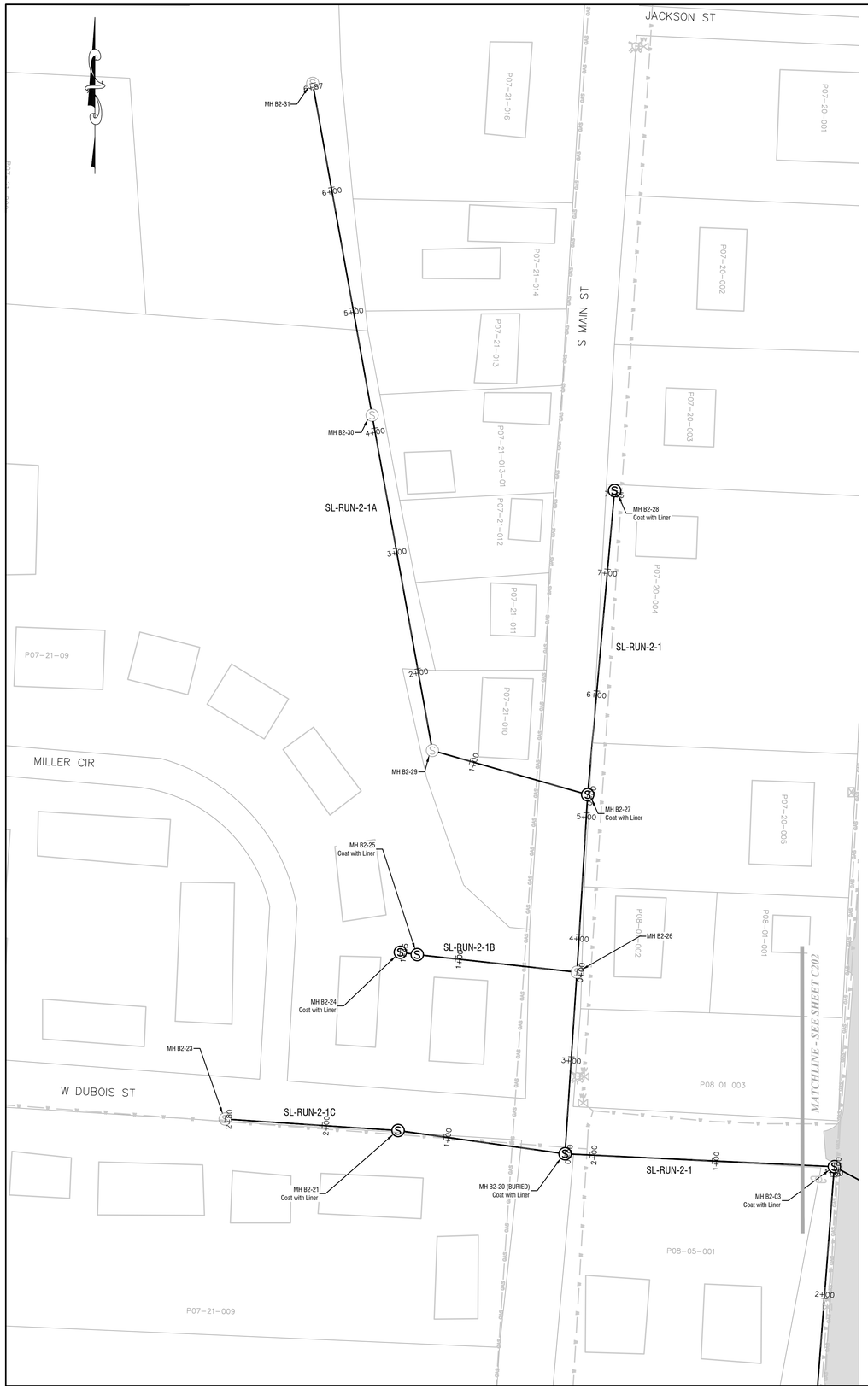
Basin 2 Sheet Index

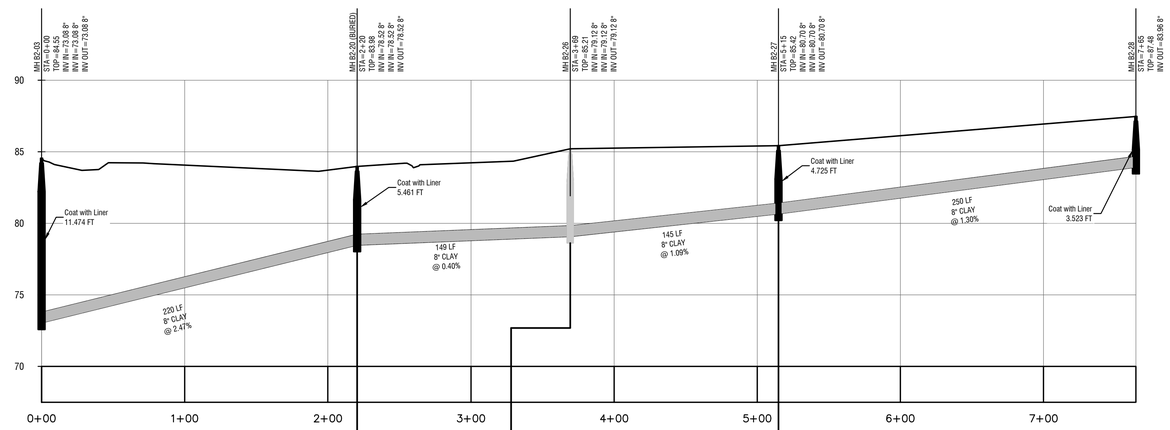
C200

SCALE BAR: 1" = 60'
60 0 30 60 120 240

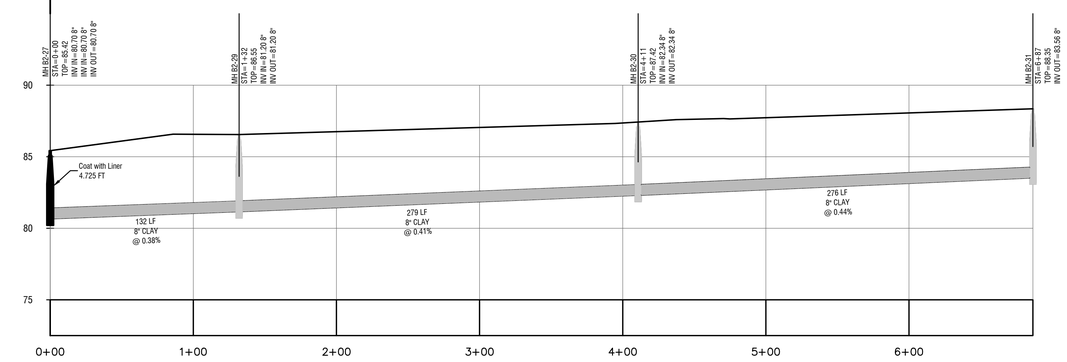
FILE NO: 2017-89

PLOT DATE: June 16, 2021



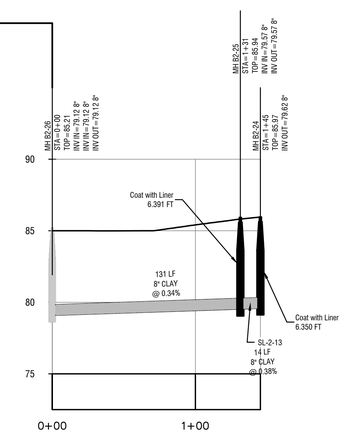


SL-RUN-2-1 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

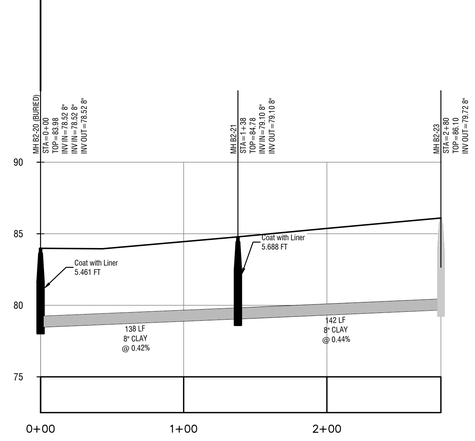


SL-RUN-2-1A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.



SL-RUN-2-1B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-1C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 38559 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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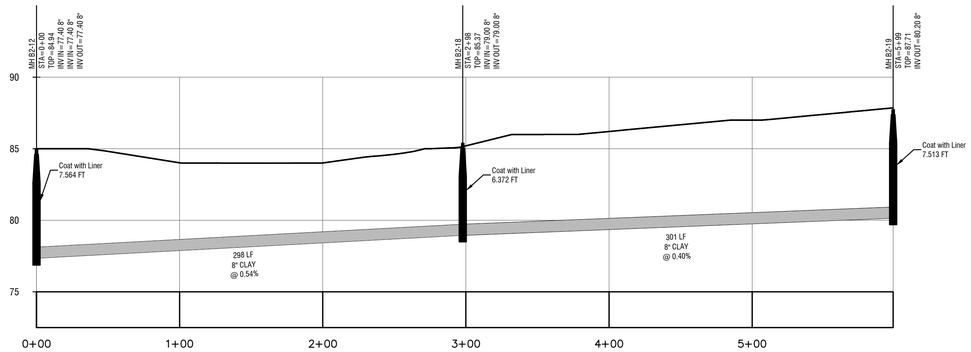
GRAVITY SEWER IMPROVEMENTS

Sewer Plan 1
Basin 2

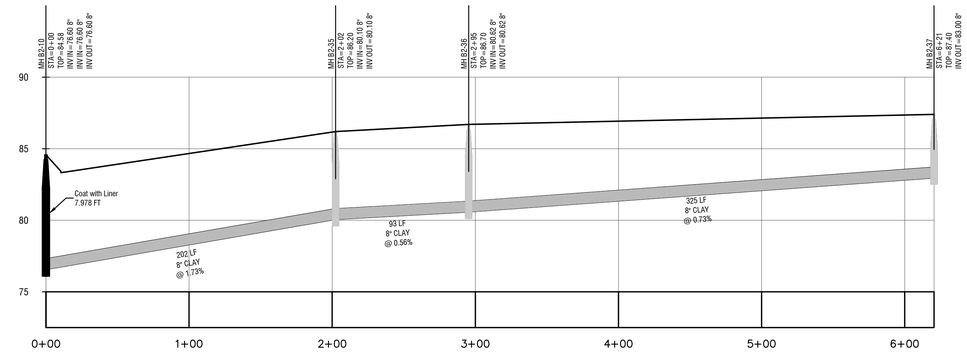
C201

FILE NO: 2017-89

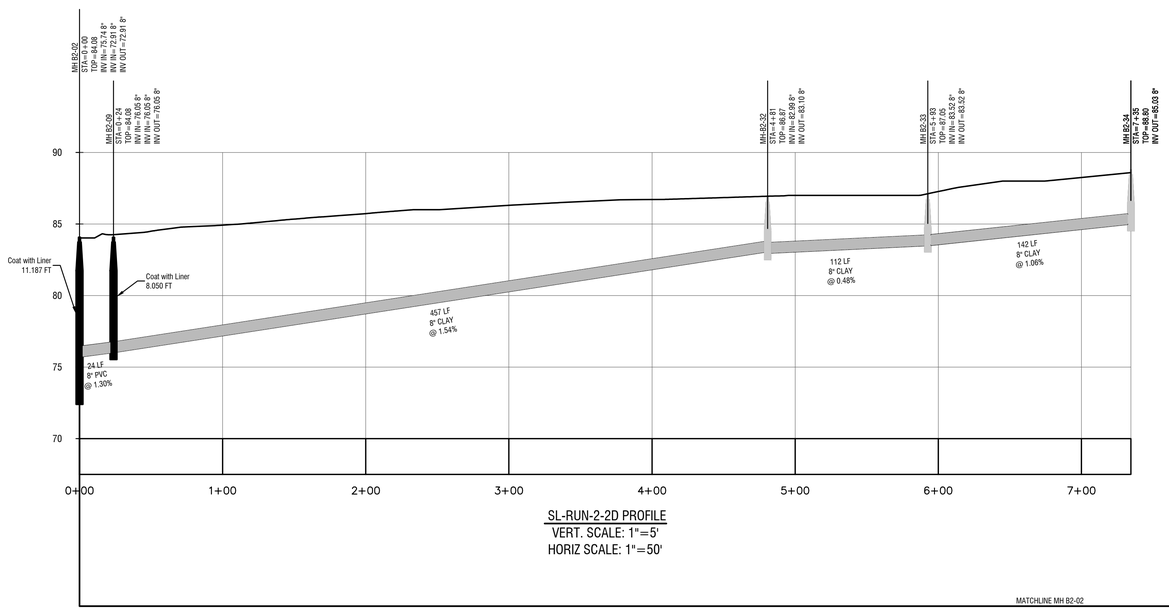
PLOT DATE: June 16, 2021



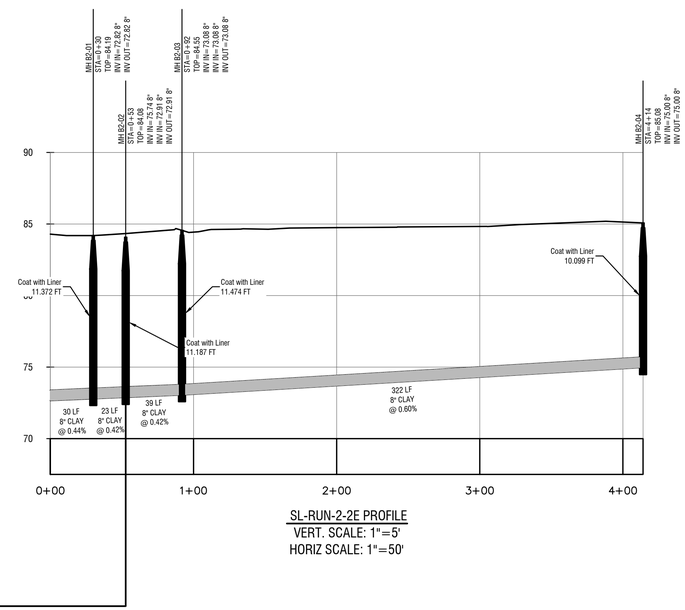
SL-RUN-2-2B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-2C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-2D PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-2E PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 38559 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

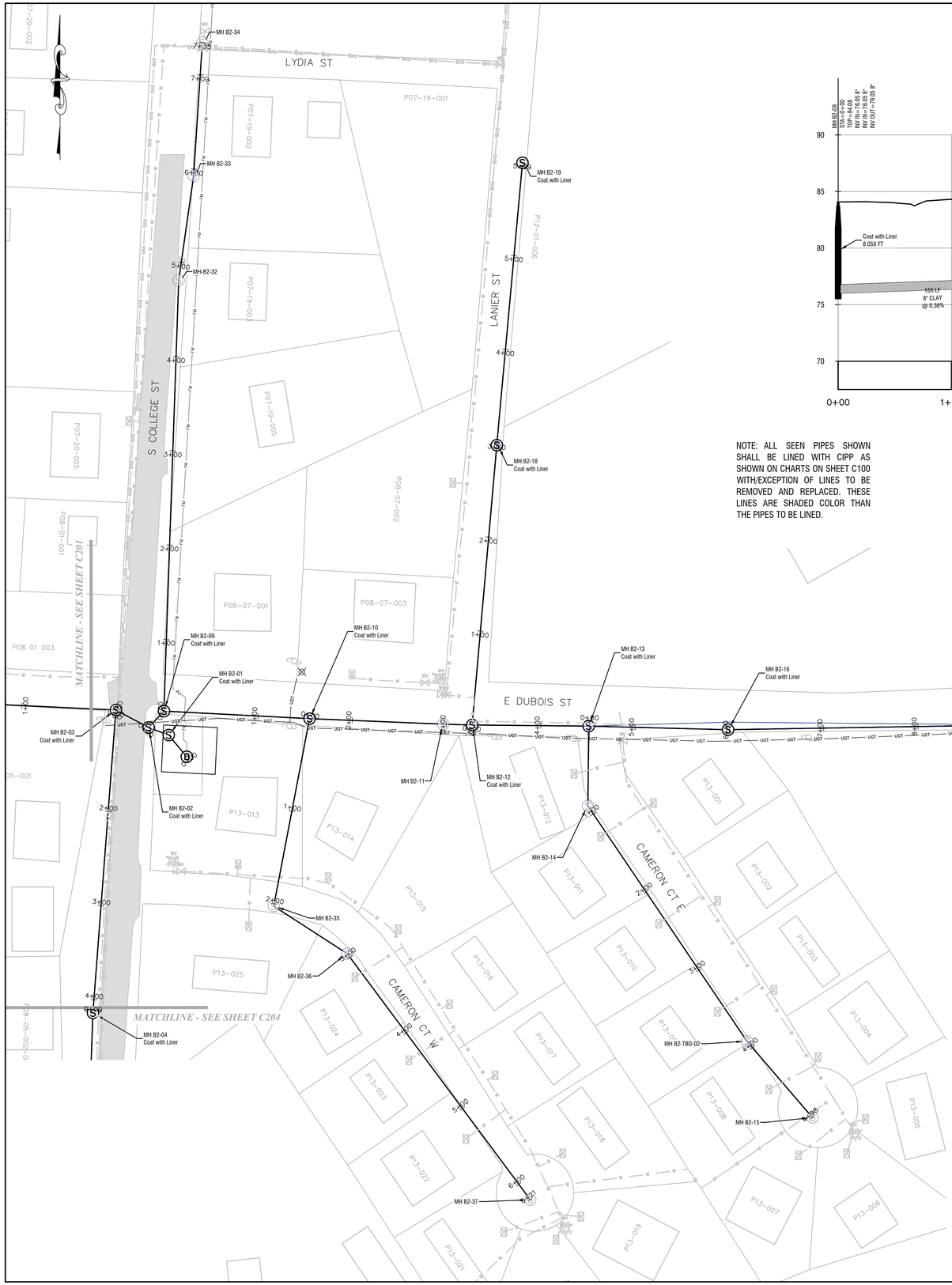
GRAVITY SEWER IMPROVEMENTS

Sewer Plan 2.1
Basin 2

C203

FILE NO: 2017-89

PLOT DATE: June 16, 2021



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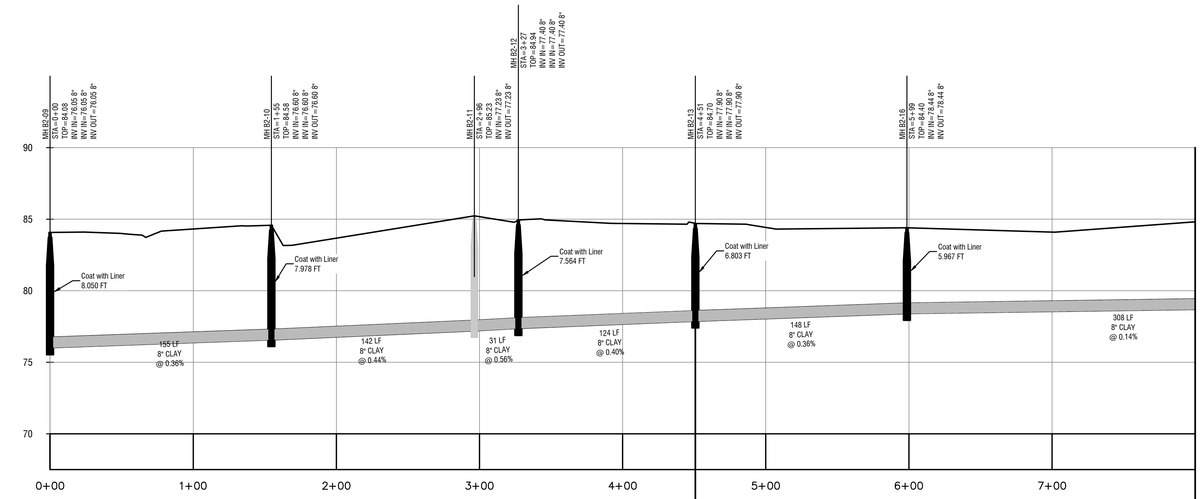
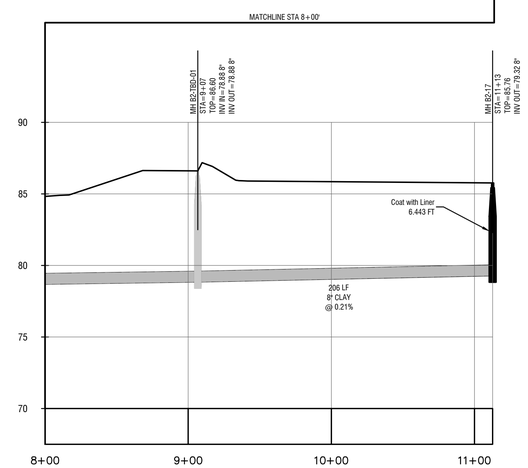
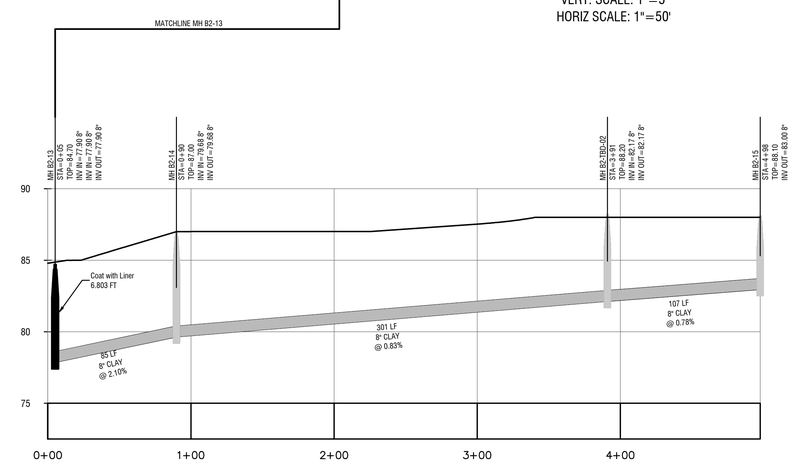


SL-RUN-2-2 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-2 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-2-2A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 38559 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
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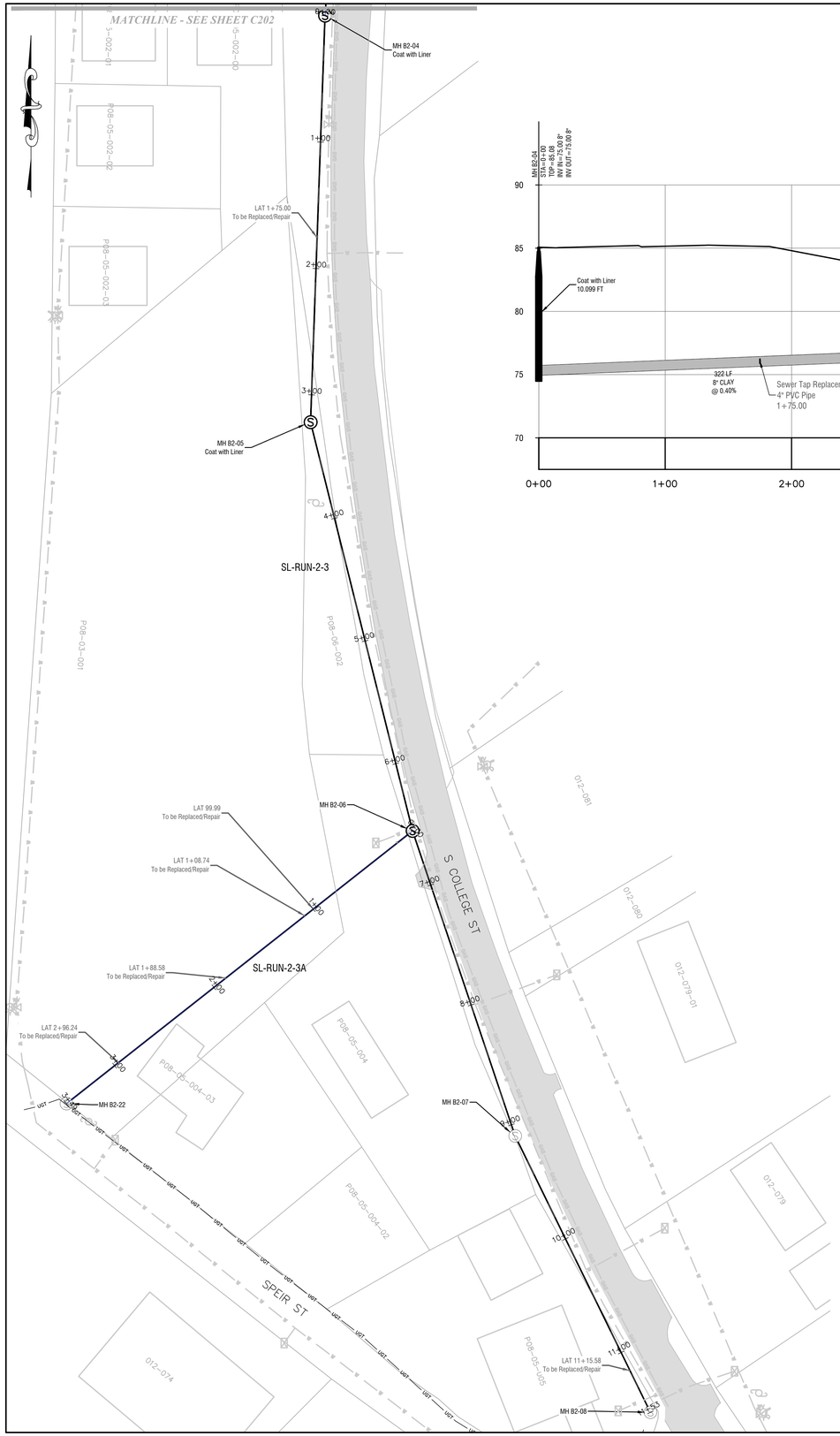
GRAVITY SEWER IMPROVEMENTS

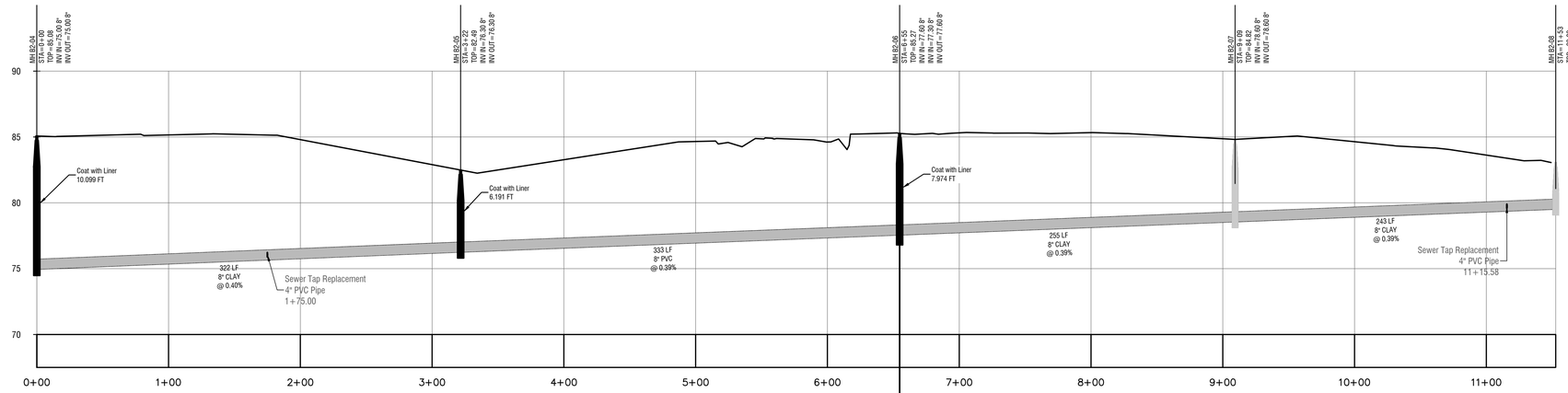
Sewer Plan 2
Basin 2

C202

FILE NO: 2017-89

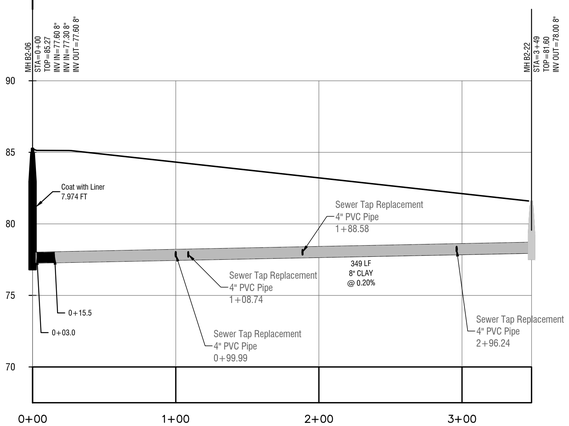
PLOT DATE: June 16, 2021





SL-RUN-2-3 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

MATCHLINE MH B2-06



SL-RUN-2-3A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: CONTRACTOR TO REPAIR 12 FT OF PIPE TO PROVIDE POSITIVE SLOPE AND GOOD DRAINAGE INTO MANHOLE PRIOR TO CIPP TROUGH ENTIRE RUN.

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30597 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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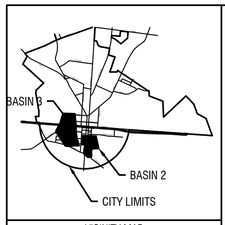
GRAVITY SEWER IMPROVEMENTS

Sewer Plan 3
Basin 2

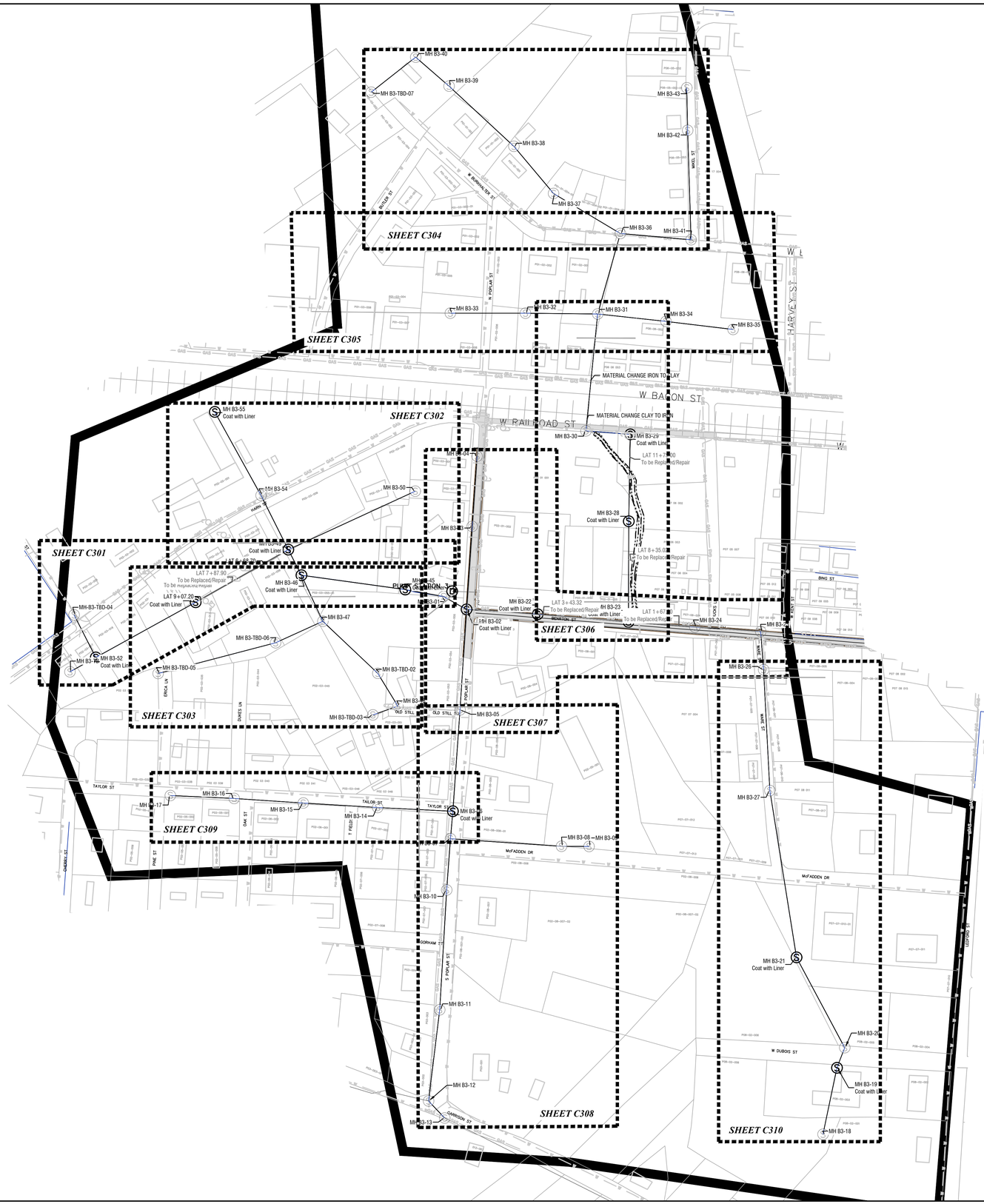
C204

FILE NO: 2017-89

PLOT DATE: June 16, 2021



VICINITY MAP
NOT TO SCALE



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MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 38559 PROFESSIONAL ENGINEER MARCUS SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

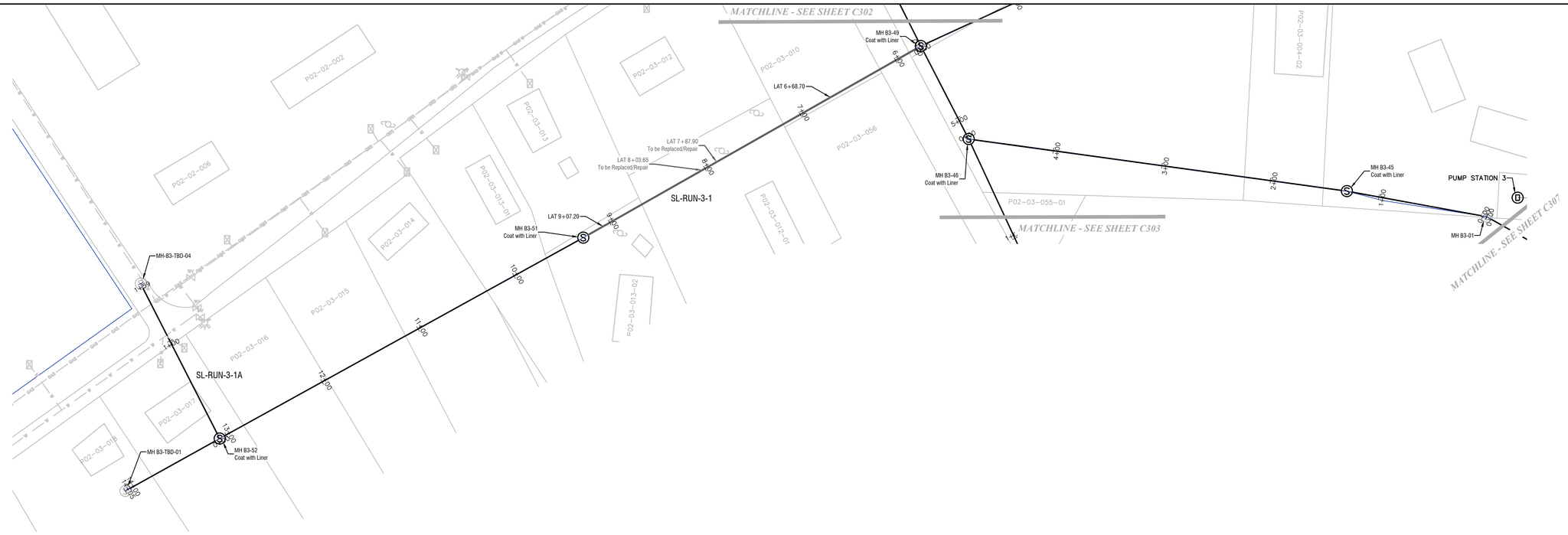
GRAVITY SEWER IMPROVEMENTS

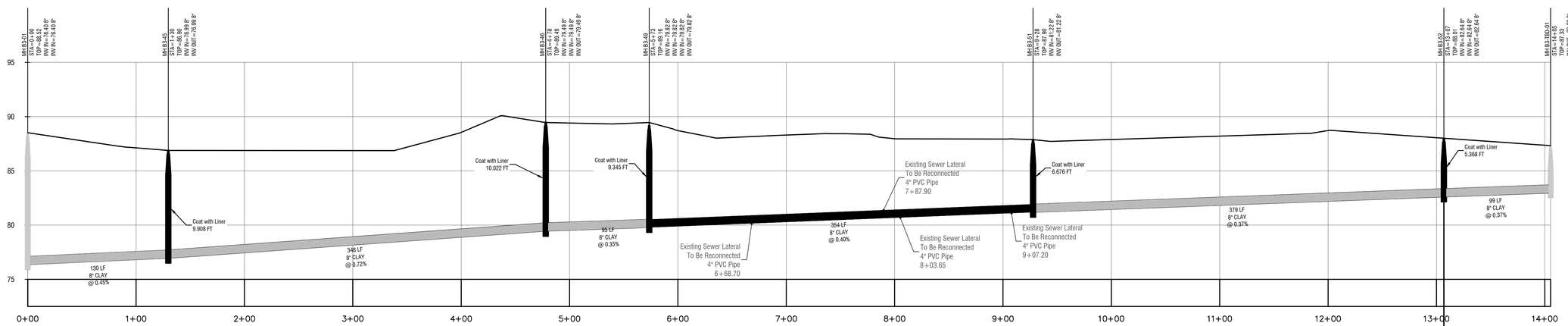
Basin 3 Sheet Index

C300

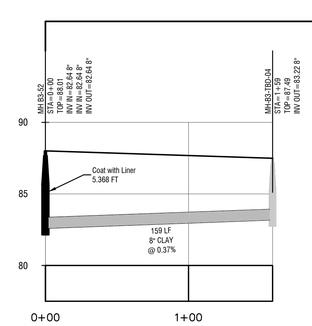
FILE NO: 2017-89

PLOT DATE: June 16, 2021





SL-RUN-3-1 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-1A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1" = 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30597 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

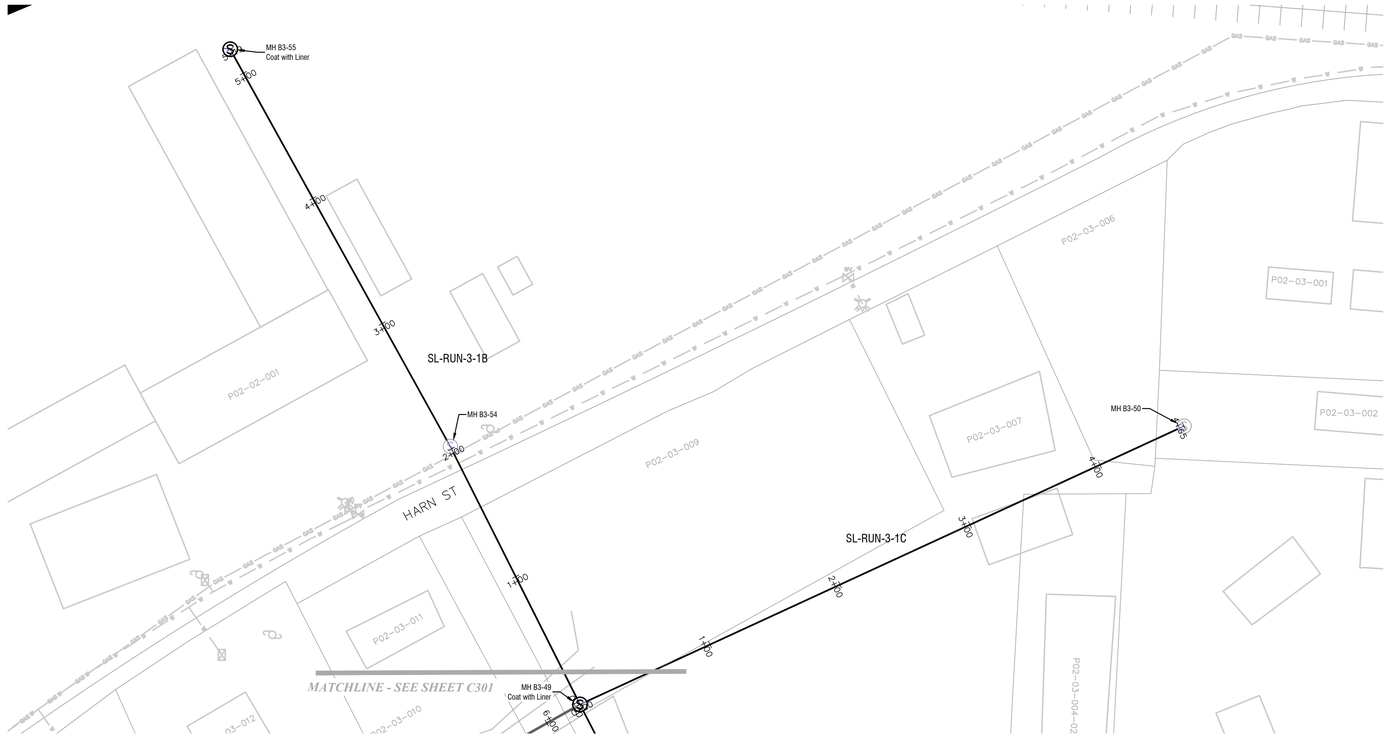
GRAVITY SEWER IMPROVEMENTS

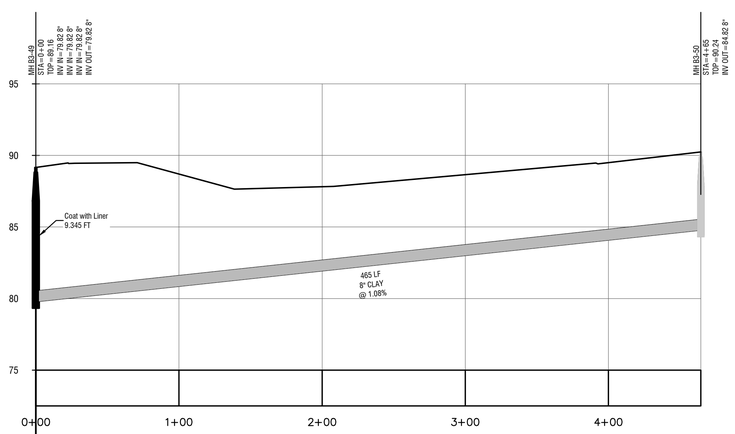
Sewer Plan 1
Basin 3

C301

FILE NO: 2017-89

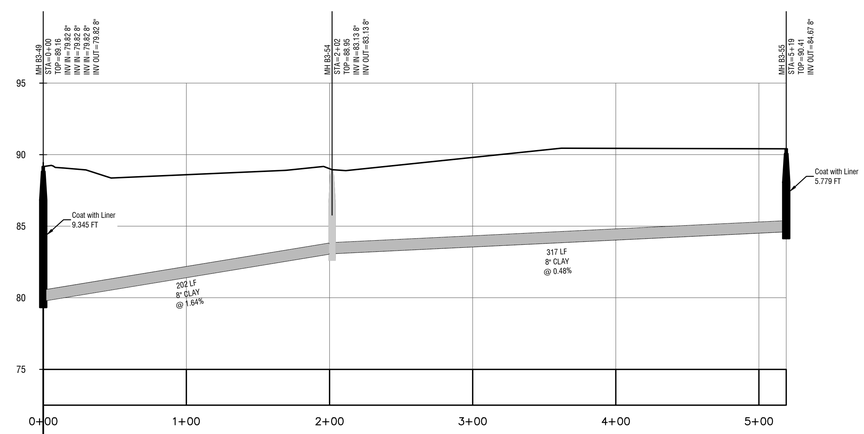
PLOT DATE: June 16, 2021





SL-RUN-3-1C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

MATCHLINE MH B3-49



SL-RUN-3-1B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1" = 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 38559 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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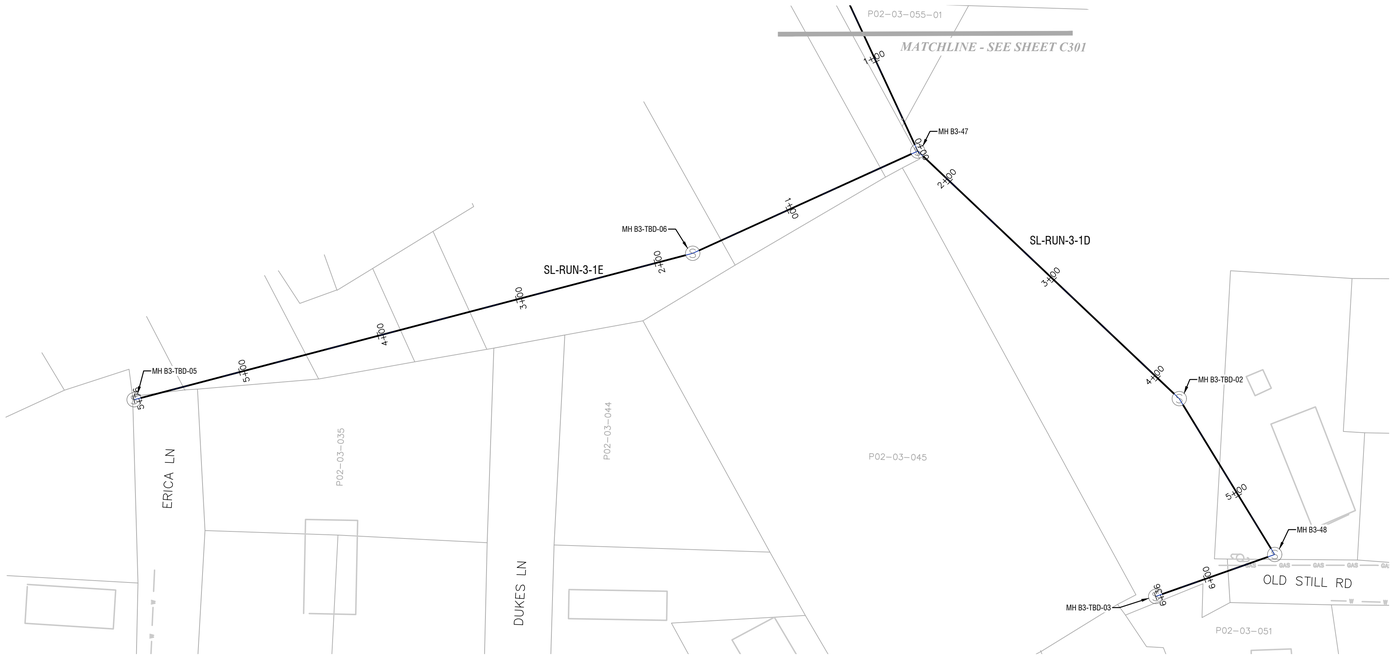
GRAVITY SEWER IMPROVEMENTS

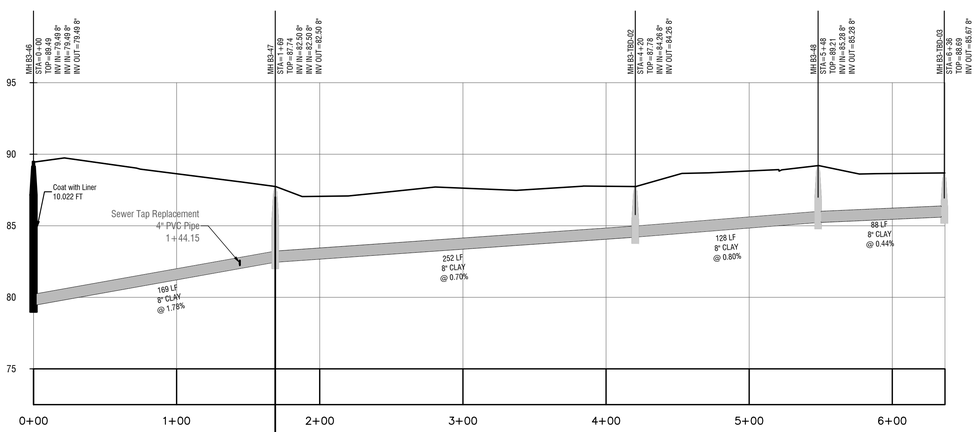
Sewer Plan 2
Basin 3

C302

FILE NO: 2017-89

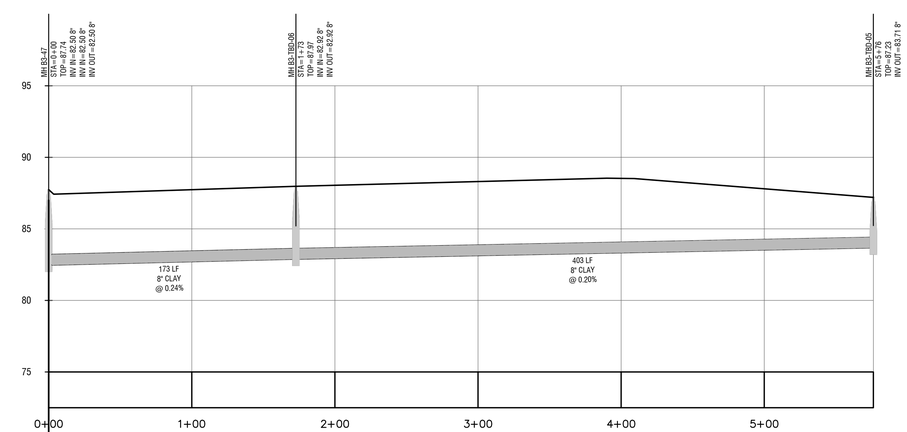
PLOT DATE: June 16, 2021





SL-RUN-3-1D PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

MATCHLINE MH B3-47



SL-RUN-3-1E PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

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SCALE BAR: 1" = 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212

135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30290 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

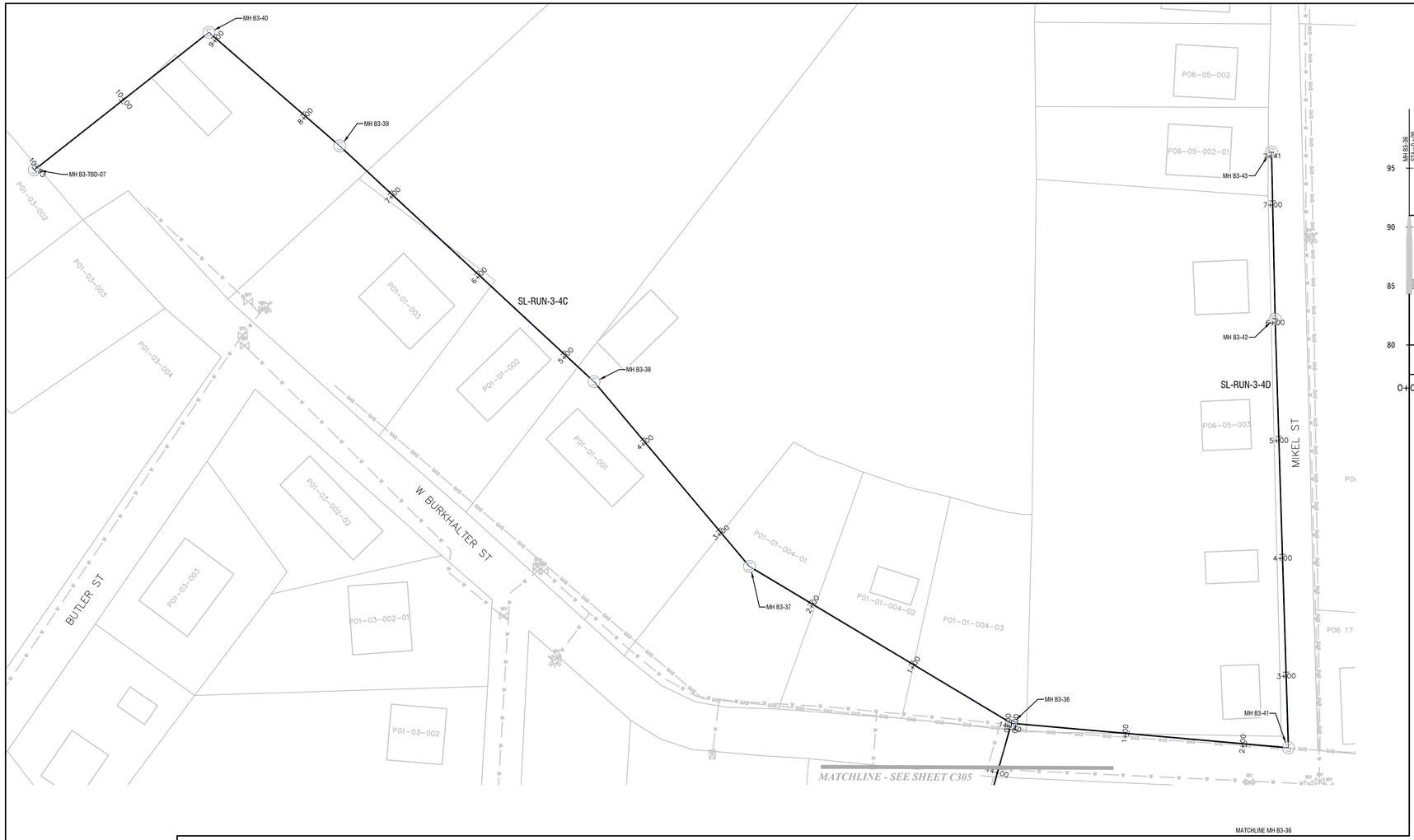
GRAVITY SEWER IMPROVEMENTS

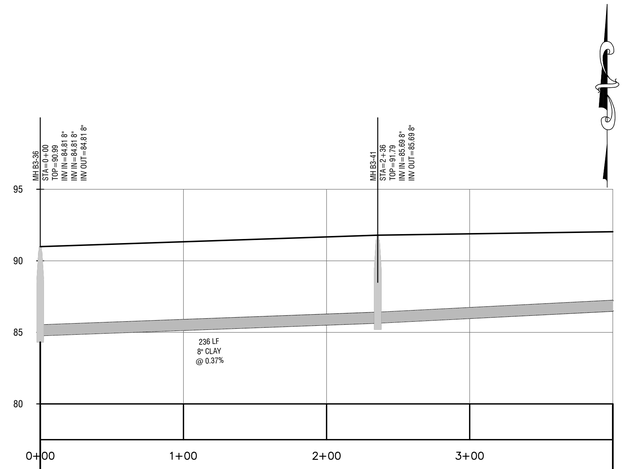
Sewer Plan 3
Basin 3

C303

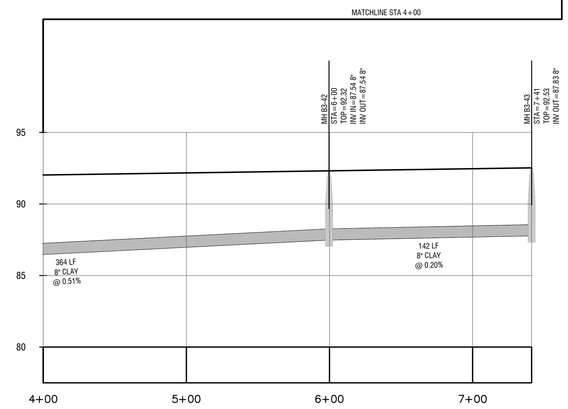
FILE NO: 2017-89

PLOT DATE: June 16, 2021

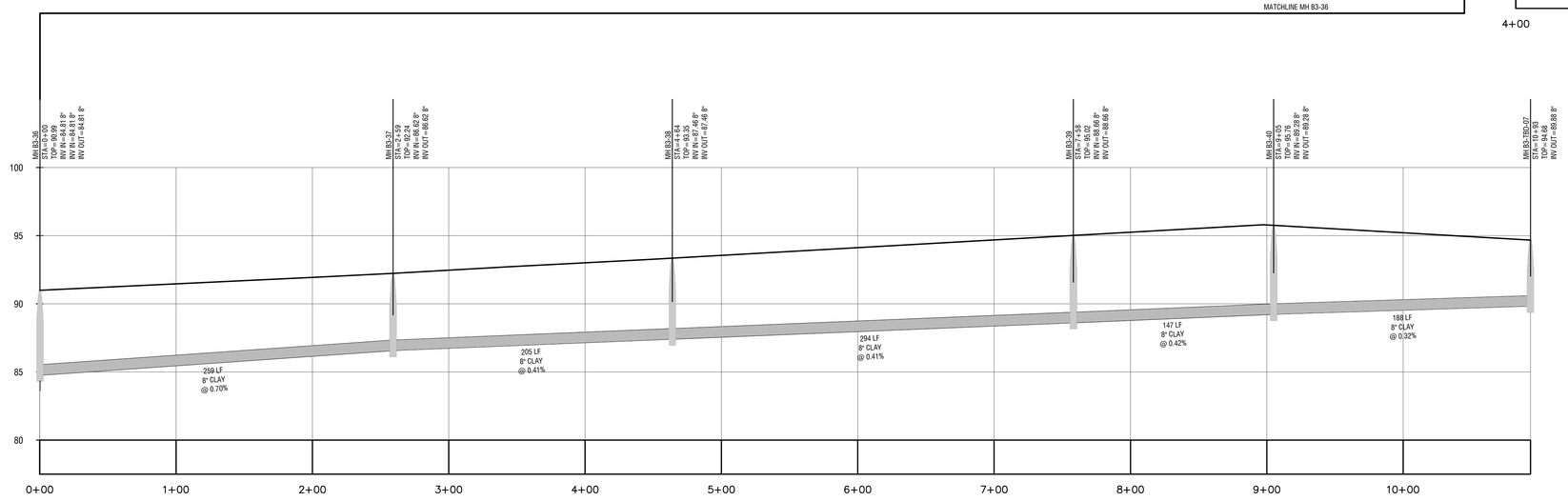




SL-RUN-3-4D PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-4D PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-4C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

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50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30290 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

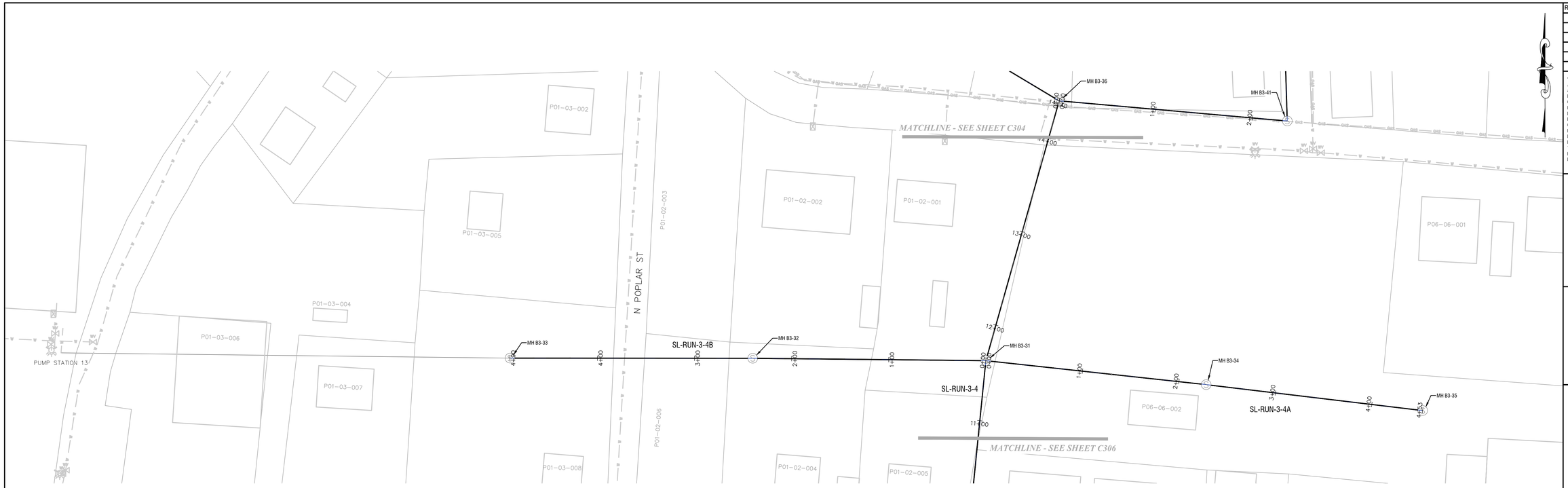
GRAVITY SEWER IMPROVEMENTS

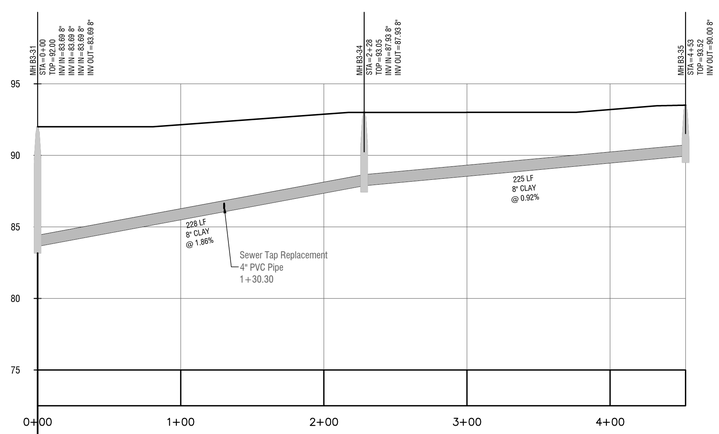
Sewer Plan 4
Basin 3

C304

FILE NO: 2017-89

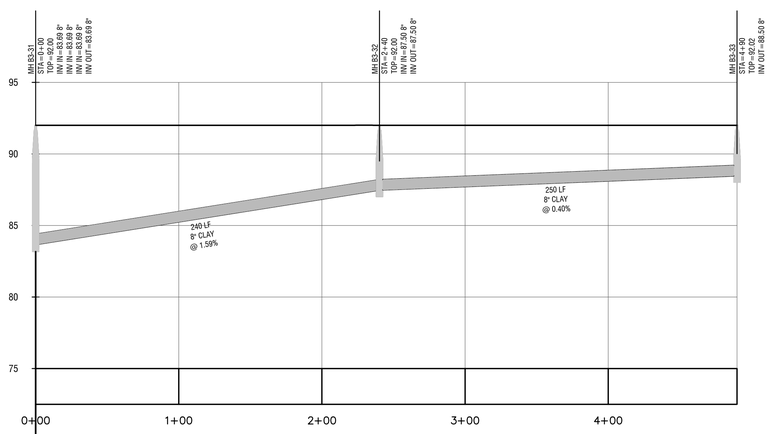
PLOT DATE: June 16, 2021





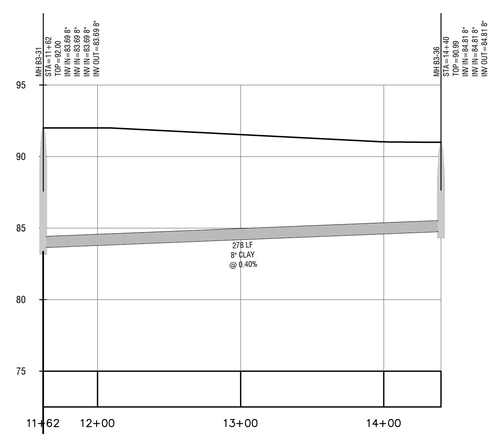
SL-RUN-3-4B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

MATCHLINE MH B3-31



SL-RUN-3-4A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

MATCHLINE MH B3-31



SL-RUN-3-4 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30997 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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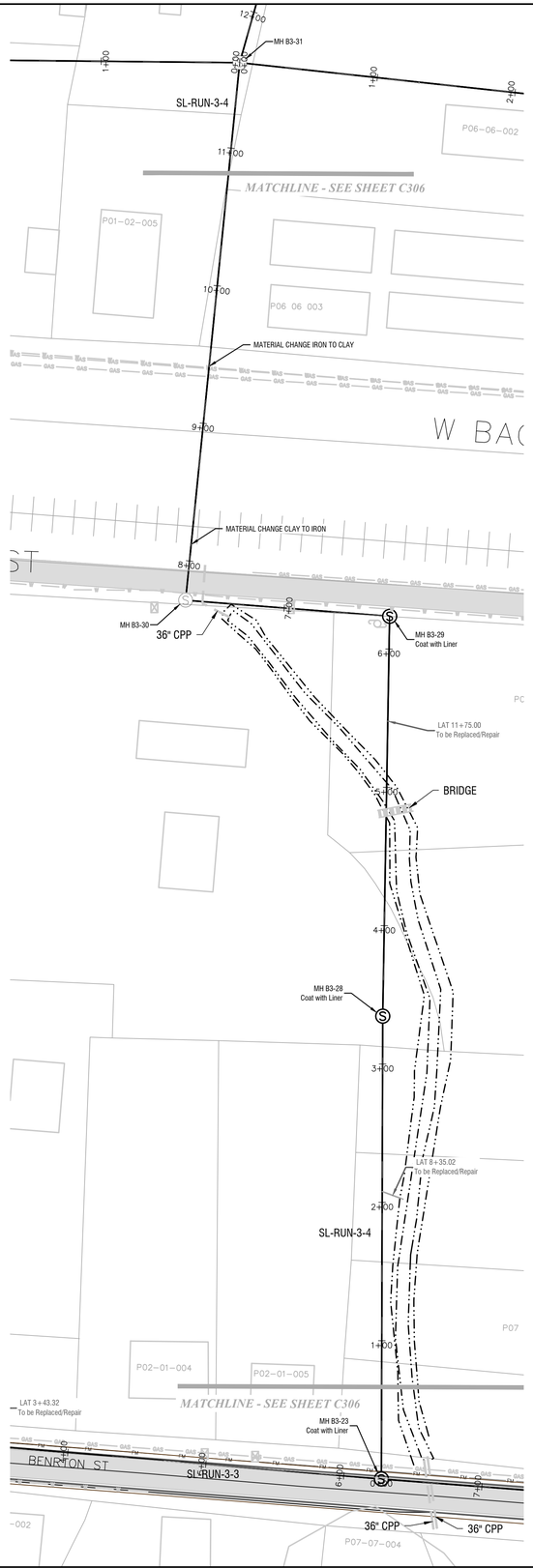
GRAVITY SEWER IMPROVEMENTS

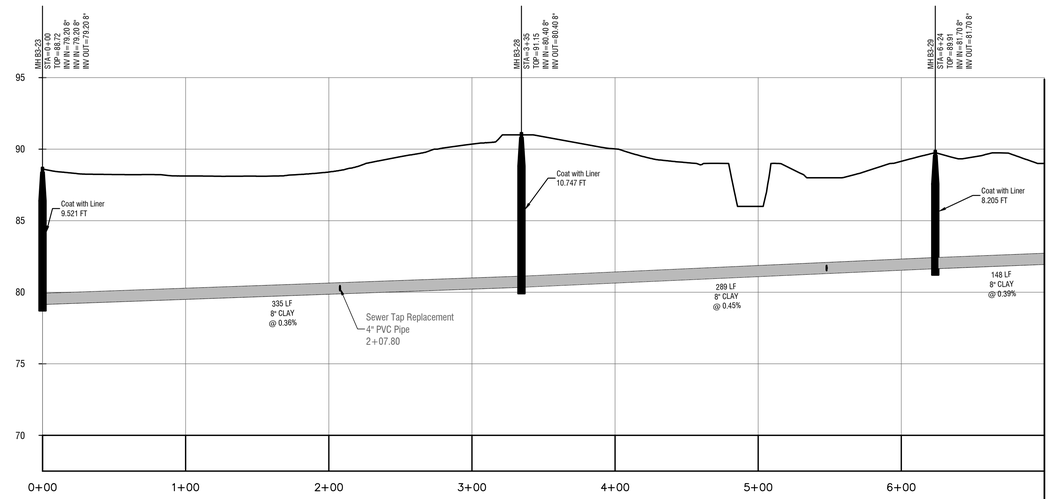
Sewer Plan 5
Basin 3

C305

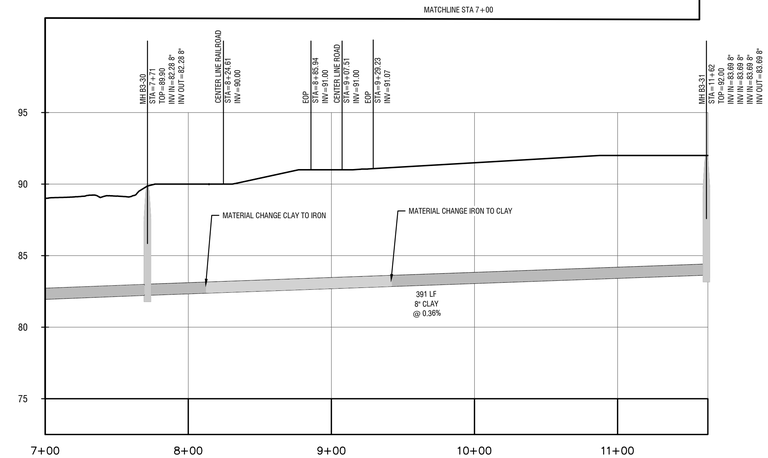
FILE NO: 2017-89

PLOT DATE: June 16, 2021





SL-RUN-3-4 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-4 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

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P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
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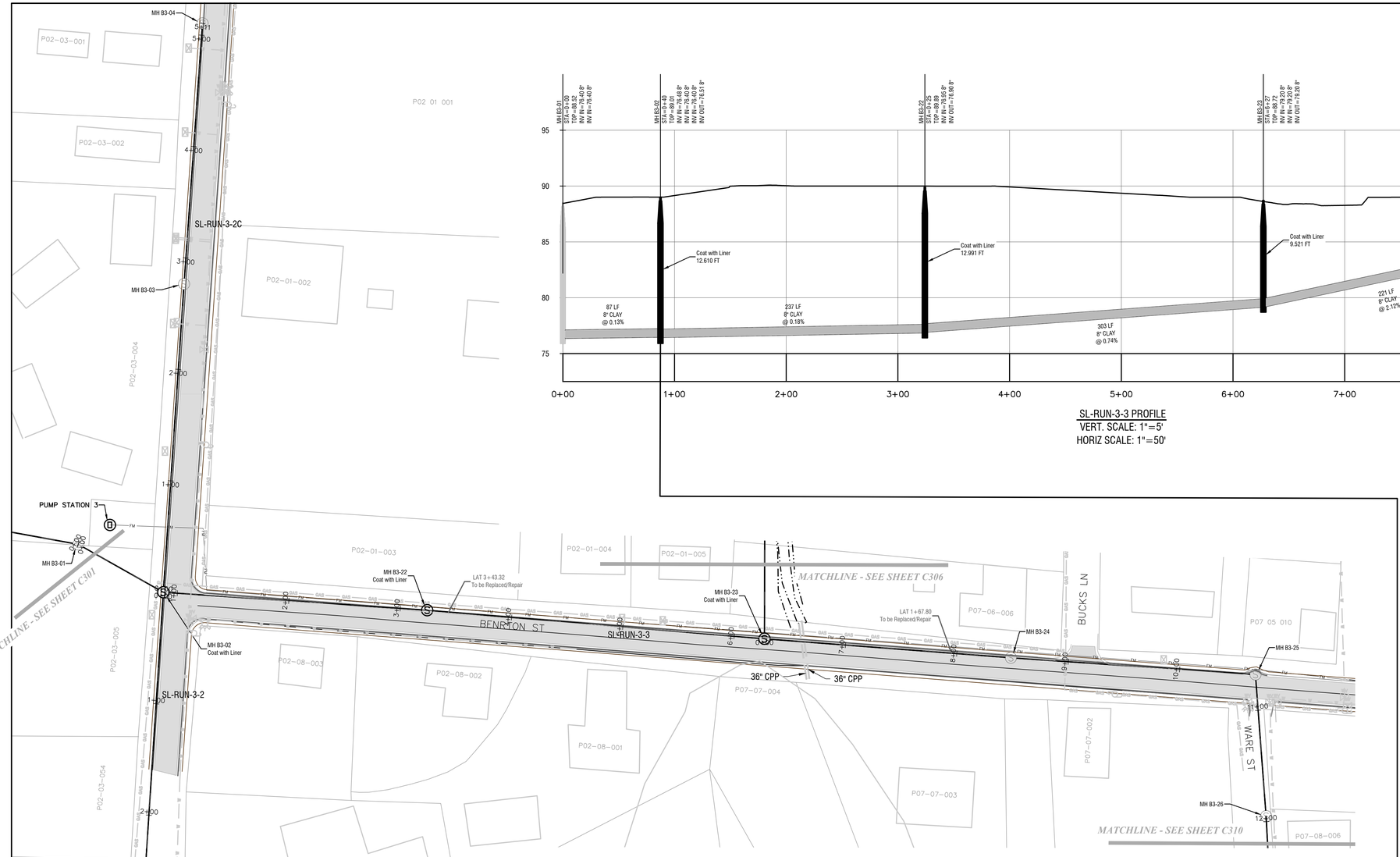
GRAVITY SEWER IMPROVEMENTS

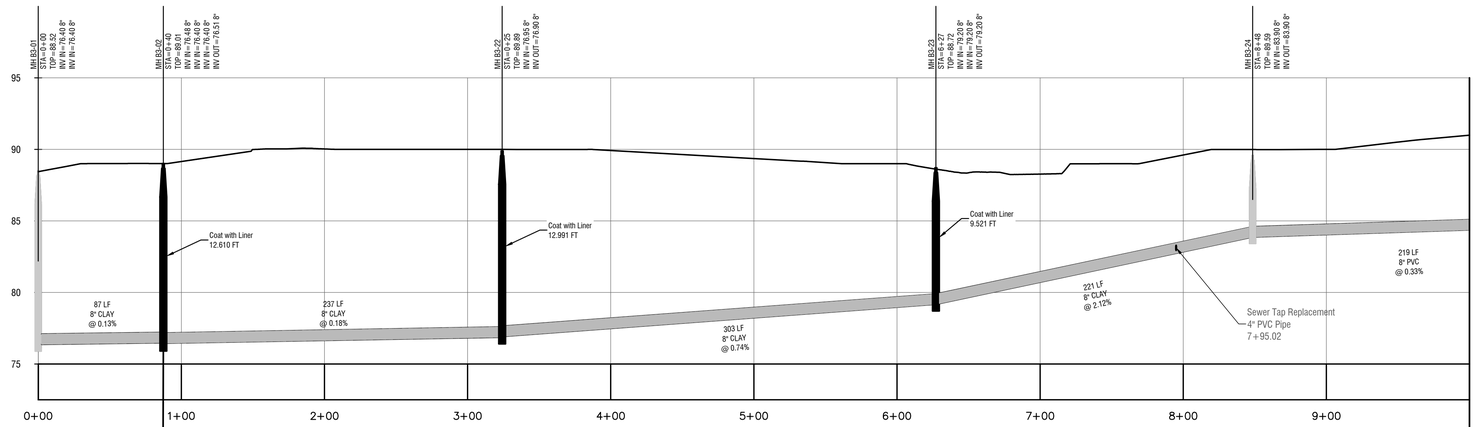
Sewer Plan 6
Basin 3

C306

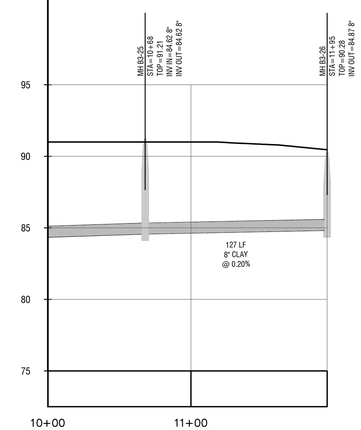
FILE NO: 2017-89

PLOT DATE: June 16, 2021

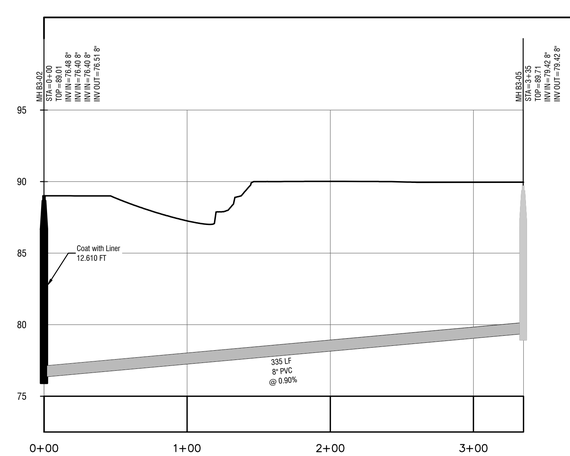




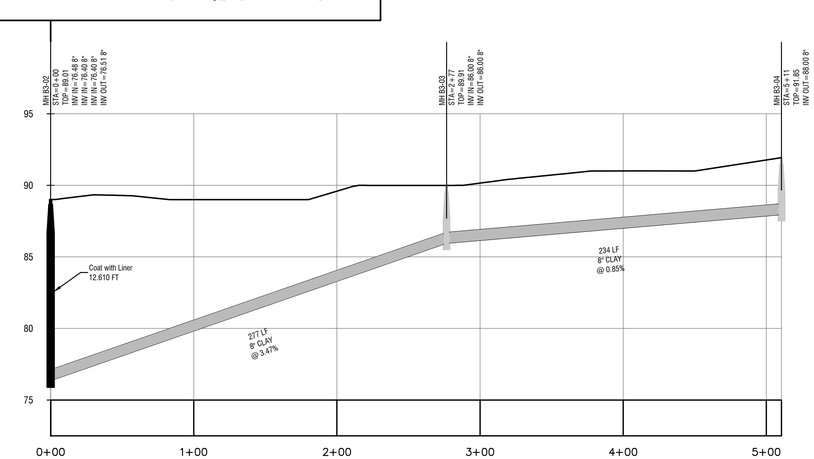
SL-RUN-3-3 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-3 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-2 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-2C PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1" = 50'

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED No. 30337 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

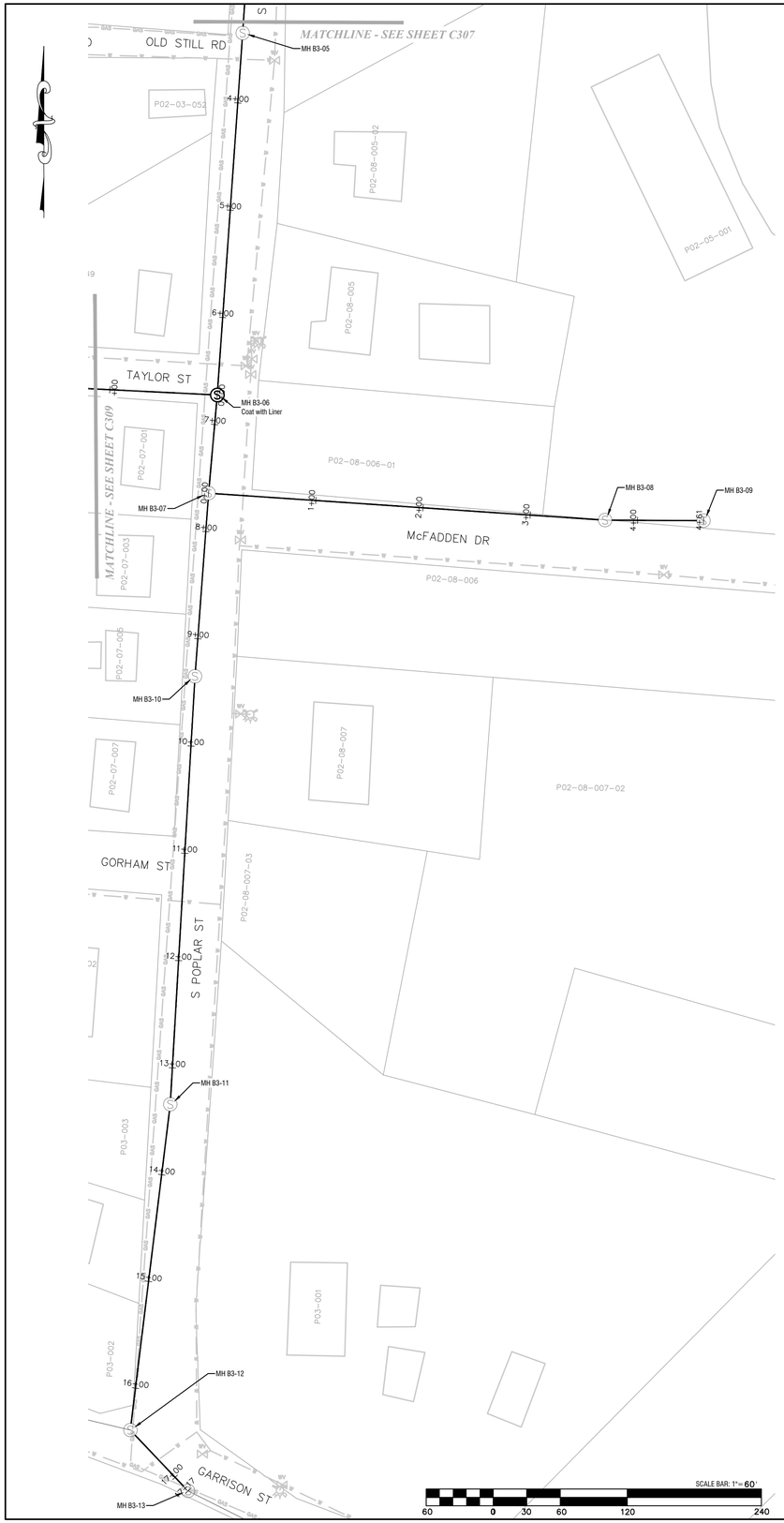
GRAVITY SEWER IMPROVEMENTS

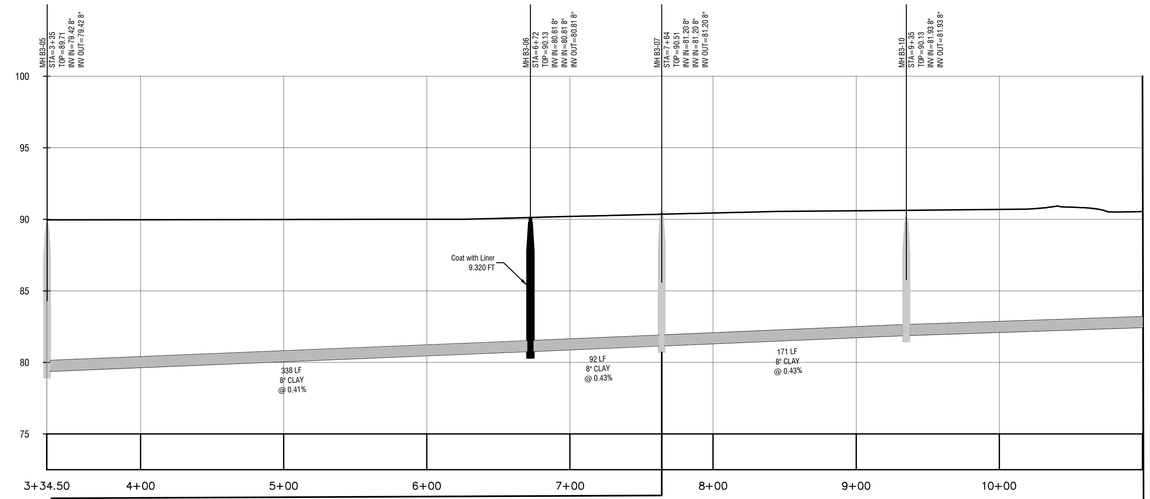
Sewer Plan 7
Basin 3

C307

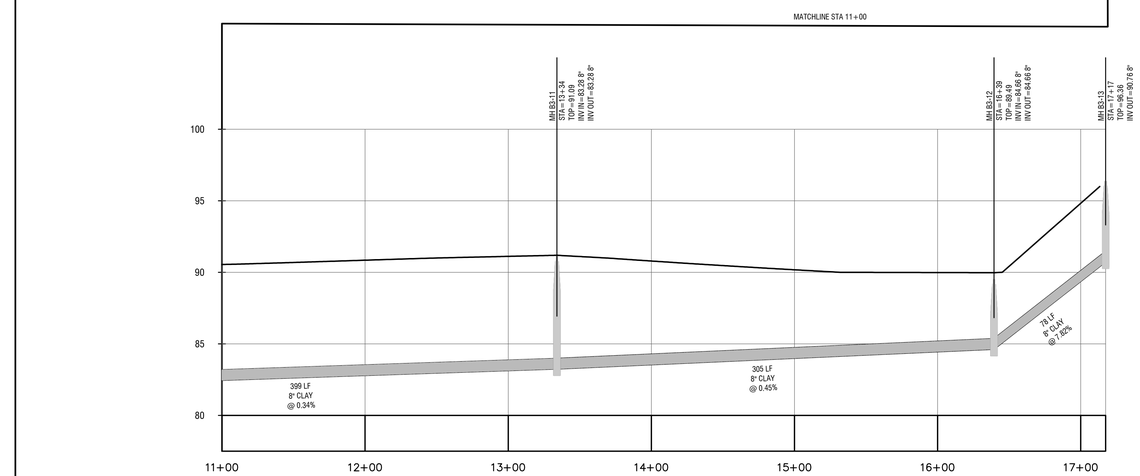
FILE NO: 2017-89

PLOT DATE: June 16, 2021

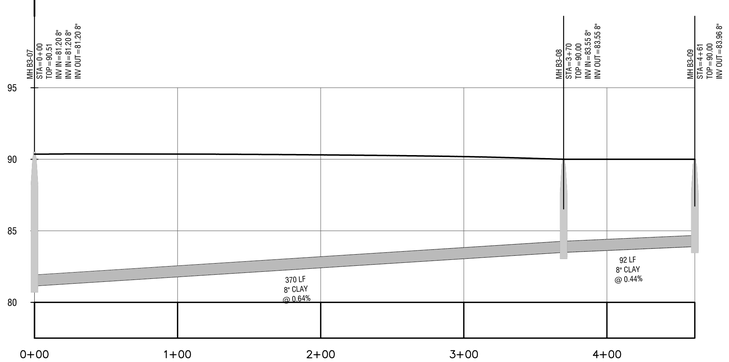




SL-RUN-3-2 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-2 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-2B PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

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GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30290 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

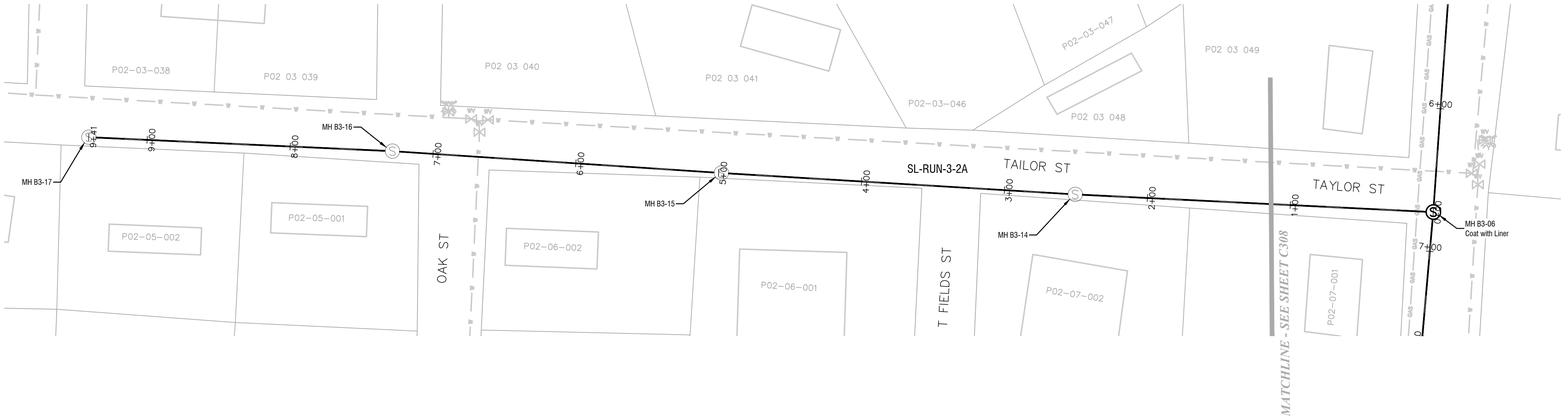
GRAVITY SEWER IMPROVEMENTS

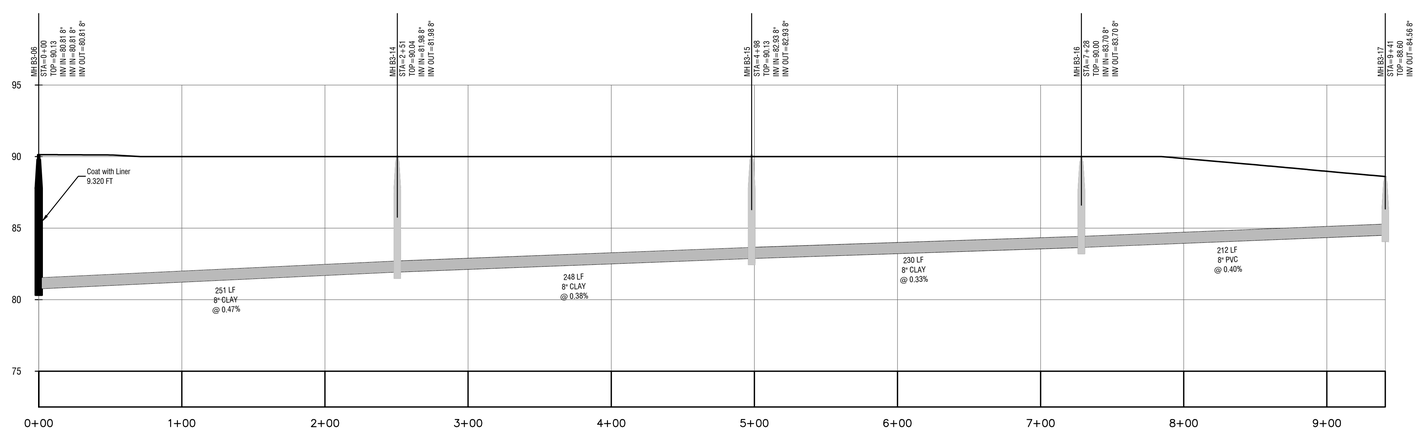
Sewer Plan 8
Basin 3

C308

FILE NO: 2017-89

PLOT DATE: June 16, 2021





SL-RUN-3-2A PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'

NOTE: ALL SEEN PIPES SHOWN SHALL BE LINED WITH CIPP AS SHOWN ON CHARTS ON SHEET C100 WITH/EXCEPTION OF LINES TO BE REMOVED AND REPLACED. THESE LINES ARE SHADED COLOR THAN THE PIPES TO BE LINED.

SCALE BAR: 1"= 50'
50 0 25 50 100 200

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GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM
515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30890 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
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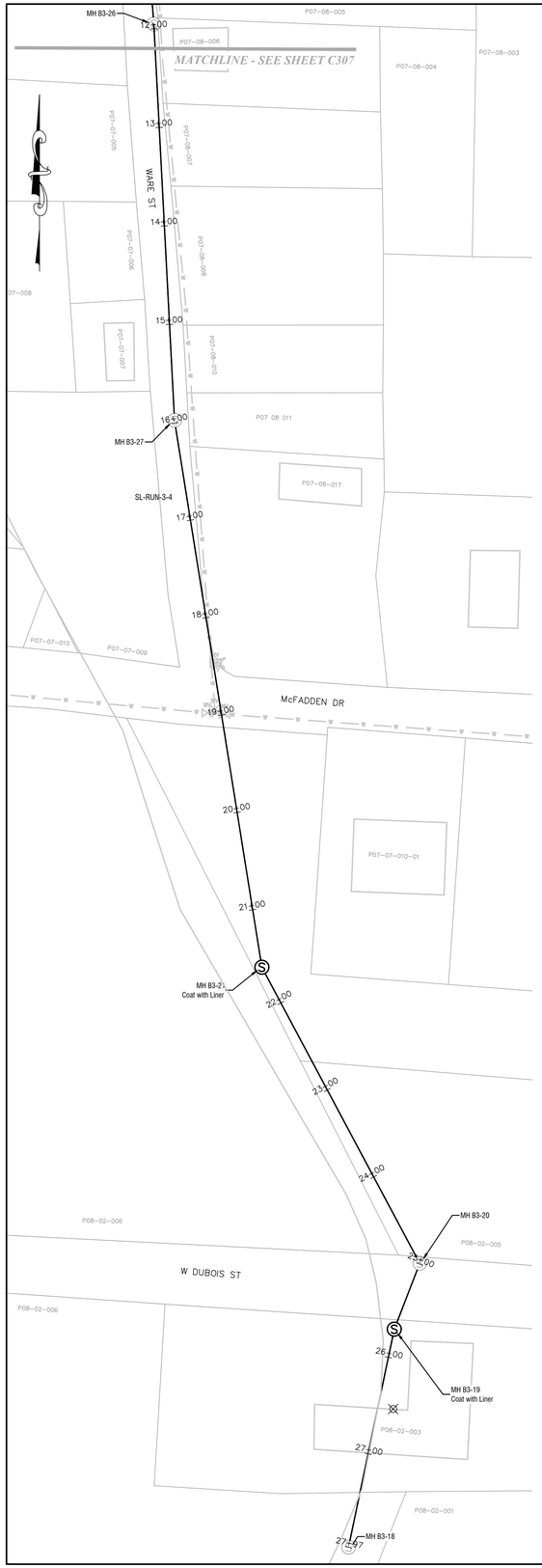
GRAVITY SEWER IMPROVEMENTS

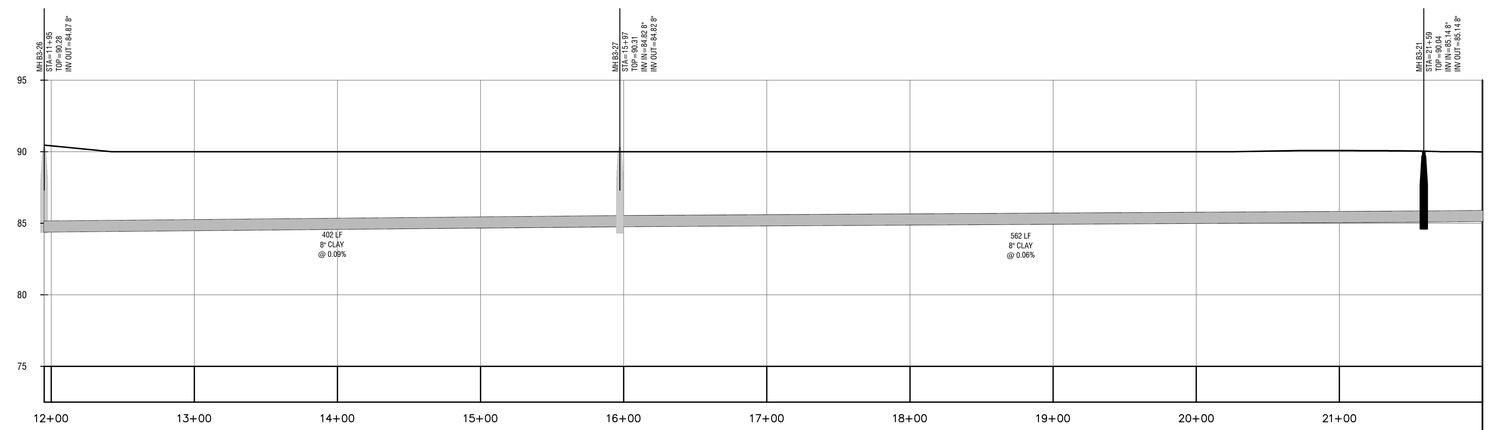
Sewer Plan 9
Basin 3

C309

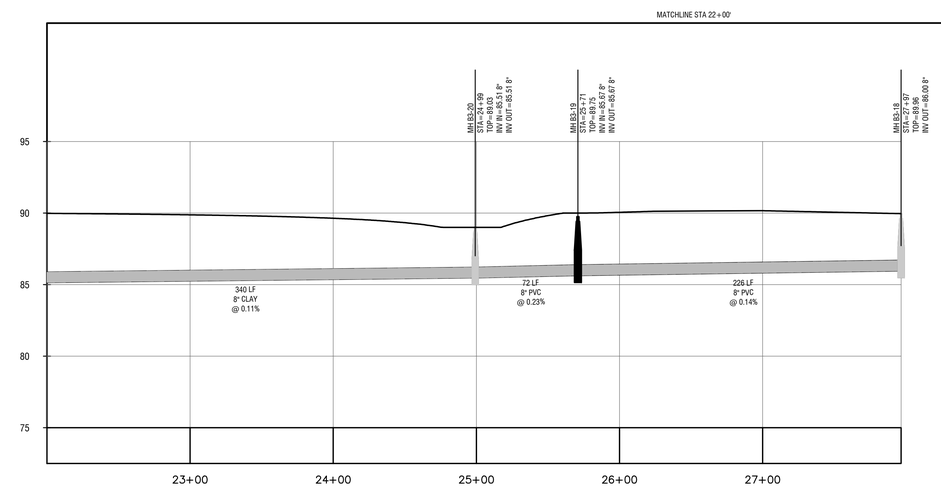
FILE NO: 2017-89

PLOT DATE: June 16, 2021





SL-RUN-3-3 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=50'



SL-RUN-3-3 PROFILE
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SCALE BAR: 1" = 60'
60 0 30 60 120 240

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P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 70248 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
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Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

GRAVITY SEWER IMPROVEMENTS

Sewer Plan 10
Basin 3

C310

FILE NO: 2017-89

PLOT DATE: June 16, 2021

Ds1 DISTURBED AREA STABILIZATION (W/MULCHING ONLY)

SPECIFICATIONS

A. For temporary protection of critical areas without seeding. This standard applies to grades or cleared areas which may be subjected to erosion for 6 months or less, where seeding may not have a suitable growing season to produce an erosion retardant cover, but which can be stabilized with a mulch cover.

Site Preparation

1. Grade, as needed and feasible, to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. As needed and feasible, loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

1. Dry straw or hay - spread at a rate of 2 1/2 tons per acre.
2. Wood waste, chips, sawdust or bark - spread 2 to 3 inches deep (about 6 to 9 tons per acre).
3. Erosion control matting or netting, such as excelsior, jute, textile and plastic matting and netting - applied in accordance with manufacturers recommendations.
4. Cutback asphalt, slow curing - applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.)
5. Polyethylene film - secured over banks or stockpiled soil material for temporary protection.

Applying and Anchoring Mulch

1. Apply straw or hay mulch uniformly by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." The disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. the edges of the disk should be dull enough not to cut the mulch but press it into the soil leaving much of it in an erect position.
   Straw hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion must be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of water per
2. Spread wood waste uniformly on slopes that are 3:1 and flatter. No anchoring is needed.
3. Commercial matting and netting. Follow manufacturer's specification included with the material.
4. Apply asphalt so area has uniform appearance. (Note: Use in areas of pedestrian traffic could cause problems or "tracking in" or damage to shoes, clothing, etc.)

B. To conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bar areas on lawns.

Mulching Materials

Use one of the materials given below and apply at thickness indicated.

Material	Depth
1. Grain straw or grass hay	6" to 10"
2. Pine needle	4" to 6"
3. Wood waste (sawdust, bark, chips)	4" to 8"
4. Shredded residues (crops, leaves, etc.)	4" to 8"

5. Completely cover area with black polyethylene film and hold in place by placing soil on the outer edge.
When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by decomposition of mulch

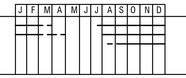
MULCHING RATES FOR PERMANENT COVER

TYPE OF MULCH	RATE PER ACRE	NOTES
Dry straw	2 Tons	Free of weed seeds.
Dry hay	2.5 Tons	Free of weed seeds.
Wood Cellulose	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Wood Pulp Fiber	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Sericea Lespedeza Hay	3 Tons	Containing mature seeds.
Pine Straw or Bark	3 inches thick	For bedding. Not for seeding.
Bituminous treated roving	See DOT specs.	Use on slopes. in ditches, or dry waterways.

1. Mulching is not required for temporary grassing.
2. Mulch shall be applied to cover 75% of the soil surface.
3. Sod does not require mulch.

Ds2 SPECIES AND PLANTING SCHEDULE

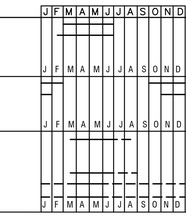
SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE	BROADCAST RATES 1/ - PLS 2/ PER 1000 S.F.	PLANTING DATES BY RESOURCE AREA 3/ (RESOURCE AREAS *)	REMARKS
RYEGRASS, ANNUAL ALONE	40 lbs.	0.9 lb.	M–L P C	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.



* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)

Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1 / PER ACRE	BROADCAST RATES 1 / PER 1000 S.F.	PLANTING DATES BY RESOURCE AREA 3/ (RESOURCE AREAS *)	SPECIFICATIONS
BERMUDA, COMMON HUILLED SEED ALONE	10 LBS.	0.2 LB.	P C	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.		
BERMUDA, COMMON UNHULLED SEED WITH TEMPORARY COVER	10 LBS.	0.2 LB.	P C	PLANT WITH WINTER ANNUALS.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.		PLANT WITH TALL FESCUE.
BERMUDA SPRIGS	40 CU. FT. OR SOD PLUGS 3' X 3'	0.9 CU.FT.	M-L	A CUBIC FT. CONTAINS APPROXIMATLY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATLY 800 SPRIGS.
COASTAL, COMMON, MIDLAND, OR TIFT 44			P C	SAME AS ABOVE.
COASTAL, COMMON, TIFT 44			C	
TIFT 78				SOUTHERN COASTAL PLAIN ONLY



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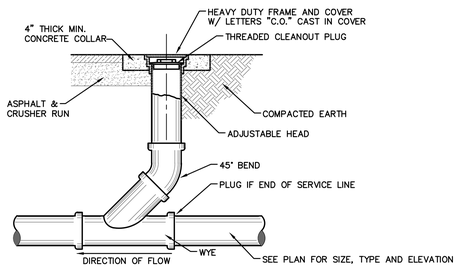
FERTILIZER REQUIREMENTS

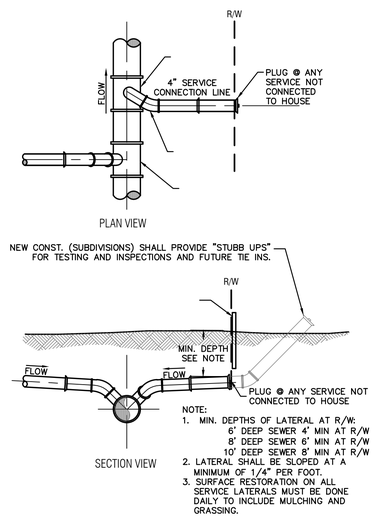
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE
Cool season grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50–100 lbs./ac. 1/ 2/ – 30
Cool season grasses legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0–50 lbs./ac. 1/ – –
Ground covers	First Second Maintenance	10–10–10 10–10–10 10–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	– – –
Pine seedings	First	20–10–5	one 21–gram pallet per seeding placed in the closing hole	–
Shrub leapedeza	First Maintenance	0–10–10 0–10–10	700 lbs./ac. 700 lbs./ac. 4/	–
Temporary cover crops seeded clone	First	10–10–10	500 lbs./ac.	30 lbs./ac. 5/
Warm season grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50–100 lbs./ac. 2/ 6/ 50–100 lbs./ac. 2/ 30 lbs./ac
Warm season grasses and legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac. 6/

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to height of 2 to 4 inches.



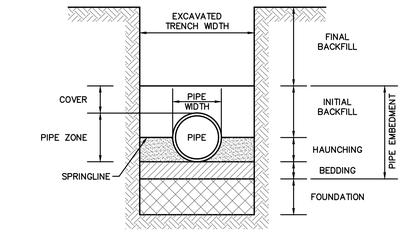
CLEANOUT DETAIL

N.T.S.



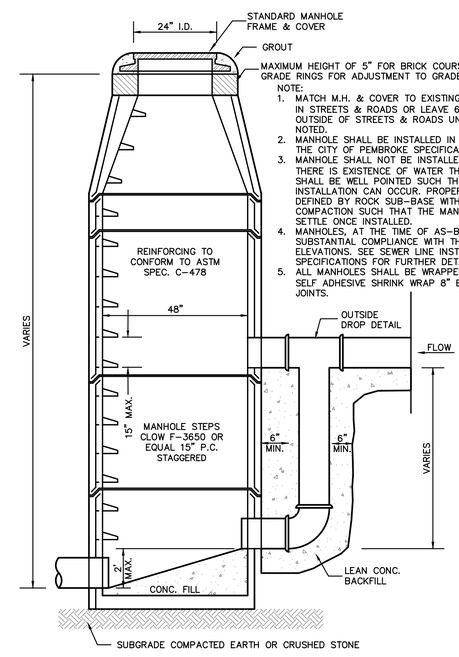
SEWER SERVICE CONNECTION DETAIL

N.T.S.



PIPE BEDDING DETAIL

N.T.S.



PRECAST CONCRETE MANHOLE

N.T.S.

SCALE BAR: 1"= 10 '
10 0 5 10 20 40

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GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
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P.O. BOX 649
HINESVILLE, GA. 31313
TEL: (912) 368-5212
135 GOSHEN ROAD
SUITE 250
RINCON, GA 31326
TEL: (912) 295-2395

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 20599 MARCUS E. SACK

DATE: 06/11/2021

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

Owner:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

24 HOUR CONTACT:
City of Pembroke
160 N Main St
Pembroke, GA 31321
(912) 653-4413
streets@pembrokega.net

GRAVITY SEWER IMPROVEMENTS

Details

C401

FILE NO: 2017-89

PLOT DATE: June 16, 2021