

GENERAL NOTES

- I. STANDARD GENERAL NOTES
 - a. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - b. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED FEB. 16, 2012 BY SILL, ADCOCK & ASSOCIATES, LLC.
 - c. THE COORDINATES ON THE DRAWINGS ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1618 AND NO. 1745.
 - d. ALL VERTICAL CONTROLS ARE BASED ON NAVD 83. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE CONCRETE MONUMENTS.
 - e. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - f. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - g. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - h. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON PLANS:
 A T & T 800-252-1133
 BGE (CONSTRUCTION SERVICES) 410-637-8713
 BGE (EMERGENCY) 410-685-0123
 BUREAU OF UTILITIES 410-313-5900
 COLONIAL PIPELINE COMPANY 410-795-1390
 MISS UTILITY 800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-511-5533
 VERIZON 800-743-0033
 - i. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - j. THE CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - k. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST 5 WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
 - m. REFER TO PLAN F-19-018 FOR RESTORATION SCHEDULE.

STANDARD SEWER MAIN GENERAL NOTES

- a. ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
- b. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- c. FORCE MAINS SHALL BE D.I.P. ONLY.
- d. MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- e. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATER-TIGHT FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- f. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

STANDARD WATER MAIN GENERAL NOTES

- a. ALL WATER MAINS TO BE PVC C900 DR 14 UNLESS OTHERWISE NOTED.
- b. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- c. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- d. ALL FITTING SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- e. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- f. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- g. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- h. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATIONS TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPES SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
- i. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. 17 POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTING INCLUDING RESTRAINTS AND HARNESSSES. 12 POUND ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
- j. PROPER ASSEMBLY OF PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE PVC PIPE.
- k. ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING IN PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE 87 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1-1/2 DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900. SHALL HAVE A MINIMUM LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR 225 PSI, DR 18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.
- l. WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5-DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATES AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELLS STOPS SHALL BE SERIES 5000 MEGA-STOP AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-19-018

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT:

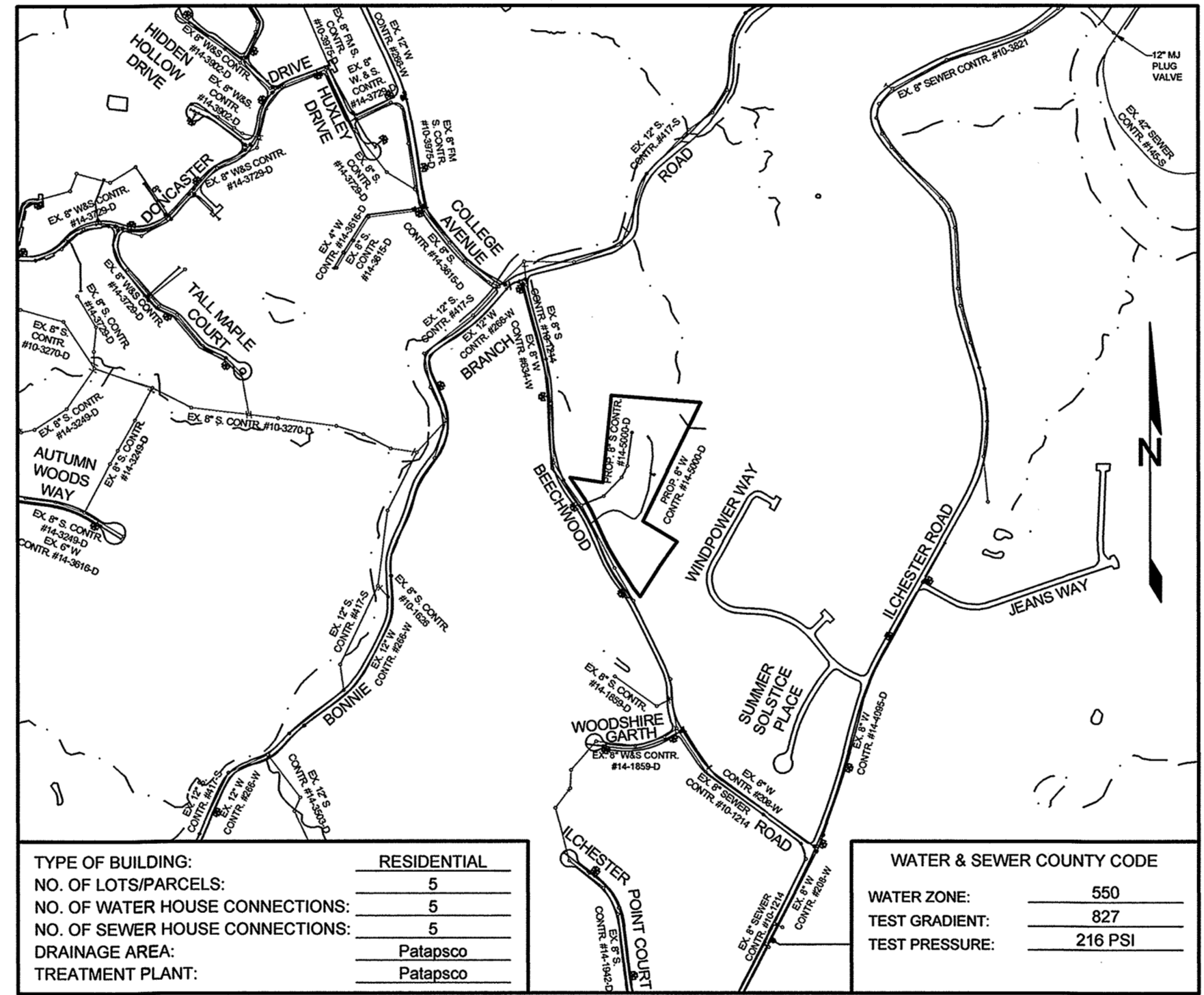
 SOIL CONSERVATION DISTRICT DATE 1/25/24

FINAL PUBLIC WATER AND SEWER PLAN

PENKUSKY PROPERTY

LOTS 1, 3 THRU 7 AND
OPEN SPACE
LOTS 2, 8 THRU 11

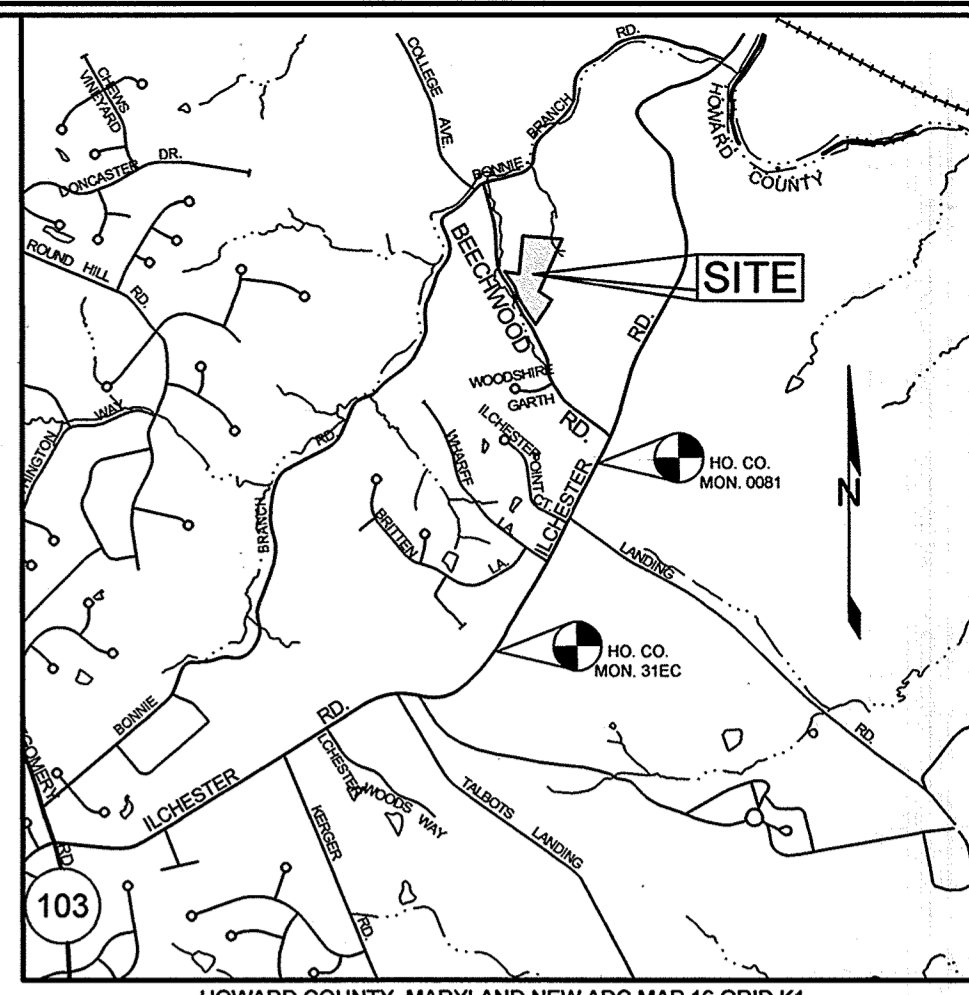
CONTRACT NO. # 14-5000-D



LOCATION PLAN
SCALE: 1"=600'

LEGEND

- SIGN
- LIGHT POLE
- STREAM BANK BUFFER
- WETLANDS BUFFER
- WETLANDS
- DIRECTION OF FLOW
- FIRE HYDRANT
- PROPOSED AIR RELEASE MANHOLE
- SEWER HOUSE CONNECTION W/ CLEANOUT
- WATER HOUSE CONNECTION W/ SINGLE METER
- WATER HOUSE CONNECTION W/ TWIN METERS
- SEWER MANHOLES
- WATER TEE AND VALVE
- WATER HORIZONTAL BEND
- STORM DRAIN STRUCTURES



VICINITY MAP
SCALE: 1"=2000'

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	MANUFACTURER/SUPPLIER
6" PVC C900 DR 14 (WATER)	476 LF		
4" PVC C900 DR 14 (WATER)	175 LF		
6"x4" REDUCER	1		
SINGLE 1.5" WATER METER	5		
1.5" WHC	100 LF		
8"x6" TAPPING SLEEVE & VALVE	1 EA		
6" FIRE HYDRANT	1 EA		
3" HIGH DEFLECTION COUPLING	1 EA		
1/2" VB	1 EA		
1/2" HB	8 EA		
1/8" HB	4 EA		
1/8" HB	2 EA		
4" CAP & BUTTRESS	1 EA		
6" DIP CL 54 (SEWER)	200 LF		
6" PVC SDR 35 (SEWER)	274 LF		
4" SHC	98 LF		
MANHOLE (SEWER)	3 EA		
DOGHOUSE MANHOLE (SEWER)	1 EA		
SEWER CLEANOUT	5 EA		

BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
0081	572,335.36	1,377,504.01	477.89	BY OUR LADY OF FERRETAL HELP # 8E SIDE L OF ILCHESTER RD, 252' W OF BEECHWOOD RD
31EC	570,387.05	1,376,436.70	477.73	NEAR BONNIE BRANCH MIDDLE SCHOOL, E SIDE OF ILCHESTER RD, 61' S OF AN INLET

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	FINAL PUBLIC WATER AND SEWER PLAN
3	FINAL PUBLIC SEWER PROFILE
4	FINAL PUBLIC WATER PROFILE

OWNER/DEVELOPER

JOSEPH C. PENKUSKY &
LISA ANN PENKUSKY
4707 BEECHWOOD ROAD
ELICOTT CITY, MARYLAND 21043
443-324-4807

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

 CHIEF, BUREAU OF UTILITIES DATE 1-23-24

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 2-8-24

SILL ENGINEERING GROUP, LLC
11130 Dovetail Court, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGNED BY:	PS
DRAWN BY:	MPO
CHECKED BY:	PS
DATE:	DECEMBER 15, 2020

NO.	DESCRIPTION	DATE

FINAL PUBLIC WATER & SEWER PLANS
COVER SHEET

600' SCALE MAP NO. 31 BLOCK NO. 4

PENKUSKY PROPERTY
LOTS 1, 3 THRU 7, AND OPEN SPACE LOTS 2, 8 THRU 11

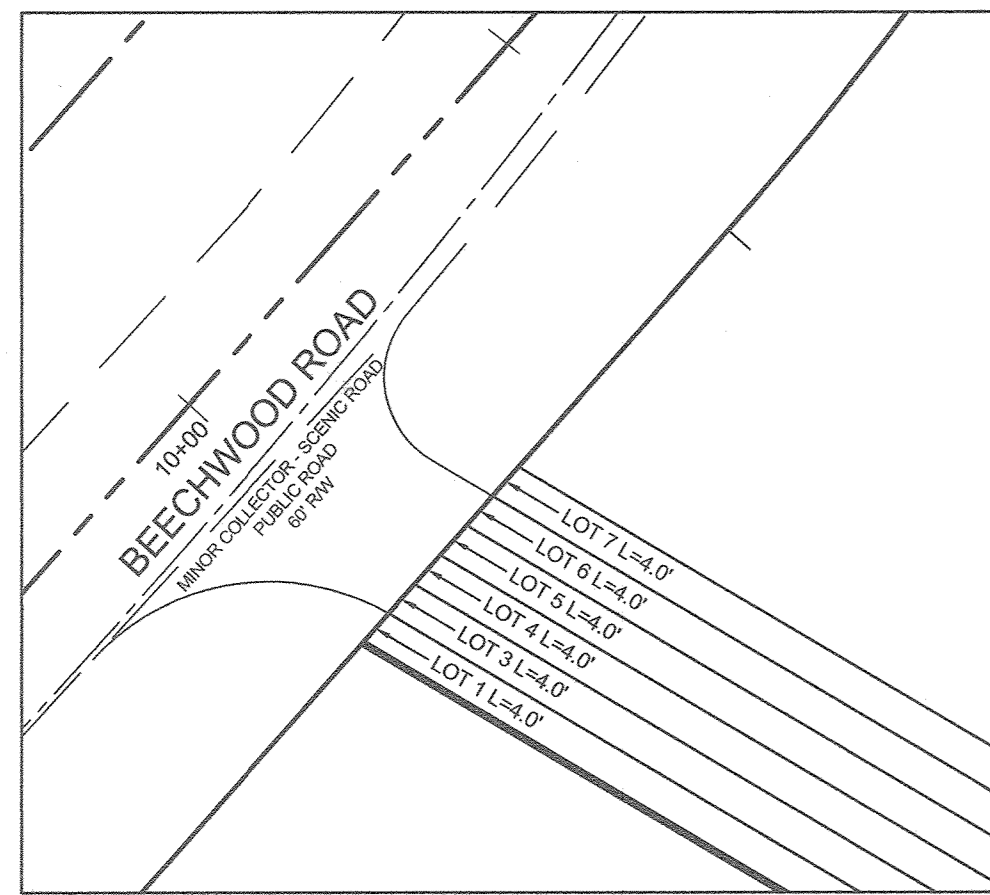
TAX MAP 31 GRID 4 1ST ELECTION DISTRICT

PARCEL 119 HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-5000-D

SCALE: AS SHOWN

SHEET NO. 1 OF 4



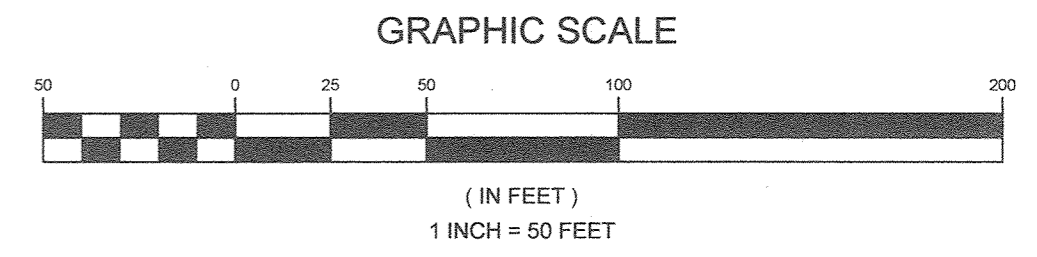
FRONT FOOT DIMENSION PLAN
SCALE: 1" = 20'

LEGEND	
SIGN	⊕
LIGHT POLE	⊙ POST TOP
STREAM BANK BUFFER	SB
WETLANDS BUFFER	WB
WETLANDS	W
PUBLIC WATER EASEMENT	---
DIRECTION OF FLOW	→
FIRE HYDRANT	⊕
PROPOSED AIR RELEASE MANHOLE	⊕
SEWER HOUSE CONNECTION W/ CLEANOUT	SHC
WATER HOUSE CONNECTION W/ SINGLE METER	WHC
WATER HOUSE CONNECTION W/ TWIN METERS	TWMC
SEWER MANHOLES	⊕ TERMINAL ⊙ STANDARD
WATER TEE AND VALVE	⊕
WATER HORIZONTAL BEND	⊕
STORM DRAIN STRUCTURES	⊕ INLETS ⊕ ENDSECTION ⊕ ENDWALL W/ R.R. APPROX ⊕ MANHOLE
PIPES	---
TRENCH DRAIN	---
PROPOSED PRIVATE ROAD	---



PLAN VIEW
SCALE: 1" = 50'

OWNER/DEVELOPER
JOSEPH C. PENKUSKY &
LISA ANN PENKUSKY
4707 BEECHWOOD ROAD
ELlicott CITY, MARYLAND 21043
443-324-4807



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

1-13-21
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

2-8-21
DATE

SILL ENGINEERING GROUP, LLC

11130 Dovedale Court, Suite 200
Marriottsville, Maryland 21104
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

NO.	DESCRIPTION	DATE
1	REVISION TO LOT 4 SEWER HOUSE CONNECTION & MCE	11/01/21
2	REVISION TO LOT 3 MCE AND LOCATION OF SMH 104	

DESIGNED BY:	PS
DRAWN BY:	MPO
CHECKED BY:	PS
DATE:	DECEMBER 15, 2020

FINAL PUBLIC WATER & SEWER PLAN

600' SCALE MAP NO. 31 BLOCK NO. 4

PENKUSKY PROPERTY

LOTS 1, 3 THRU 7, AND OPEN SPACE LOTS 2, 8 THRU 11

TAX MAP 31 GRID 4
1ST ELECTION DISTRICT

PARCEL 119
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-5000-D

SCALE:
AS SHOWN

SHEET NO.
2 OF 4

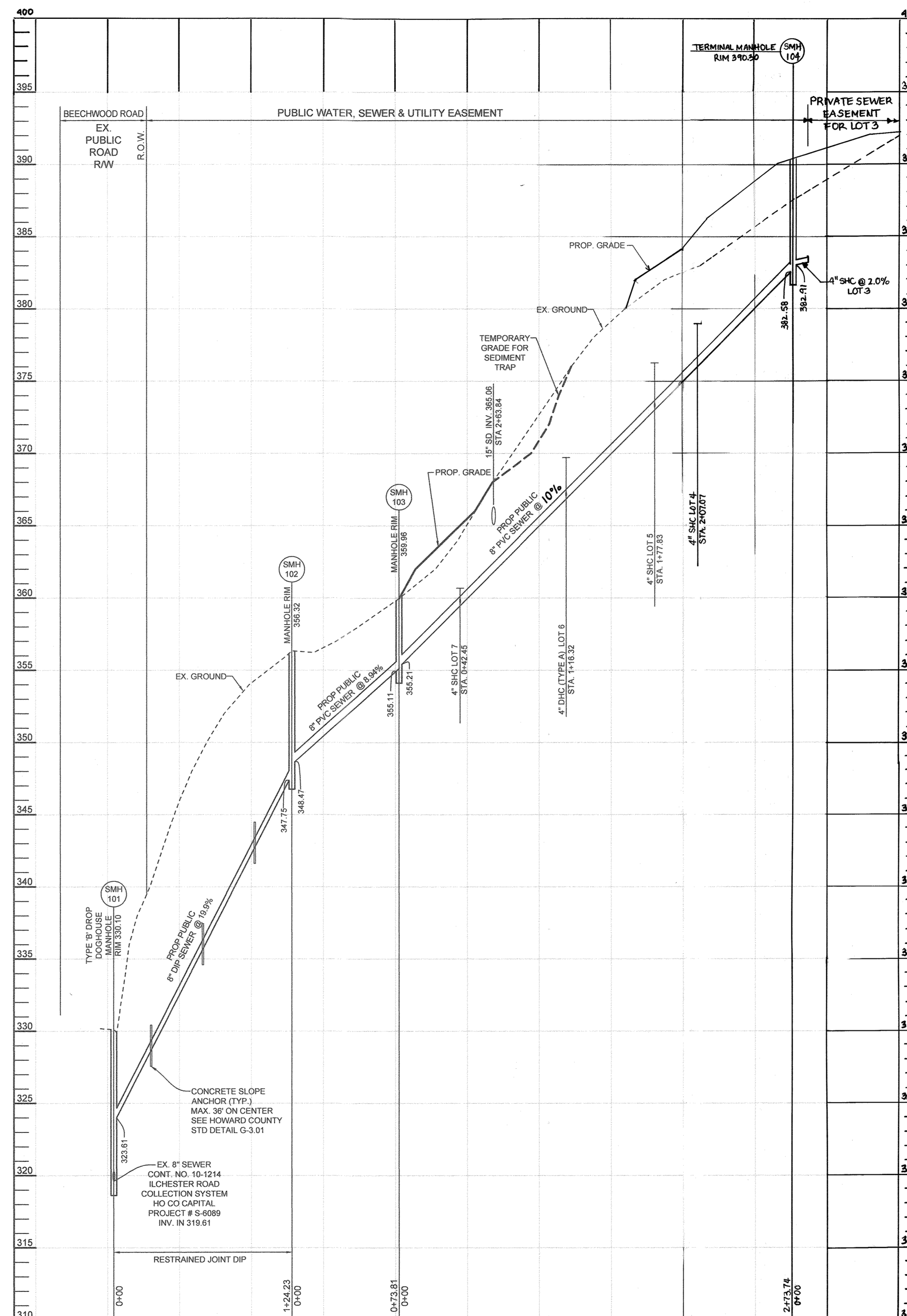
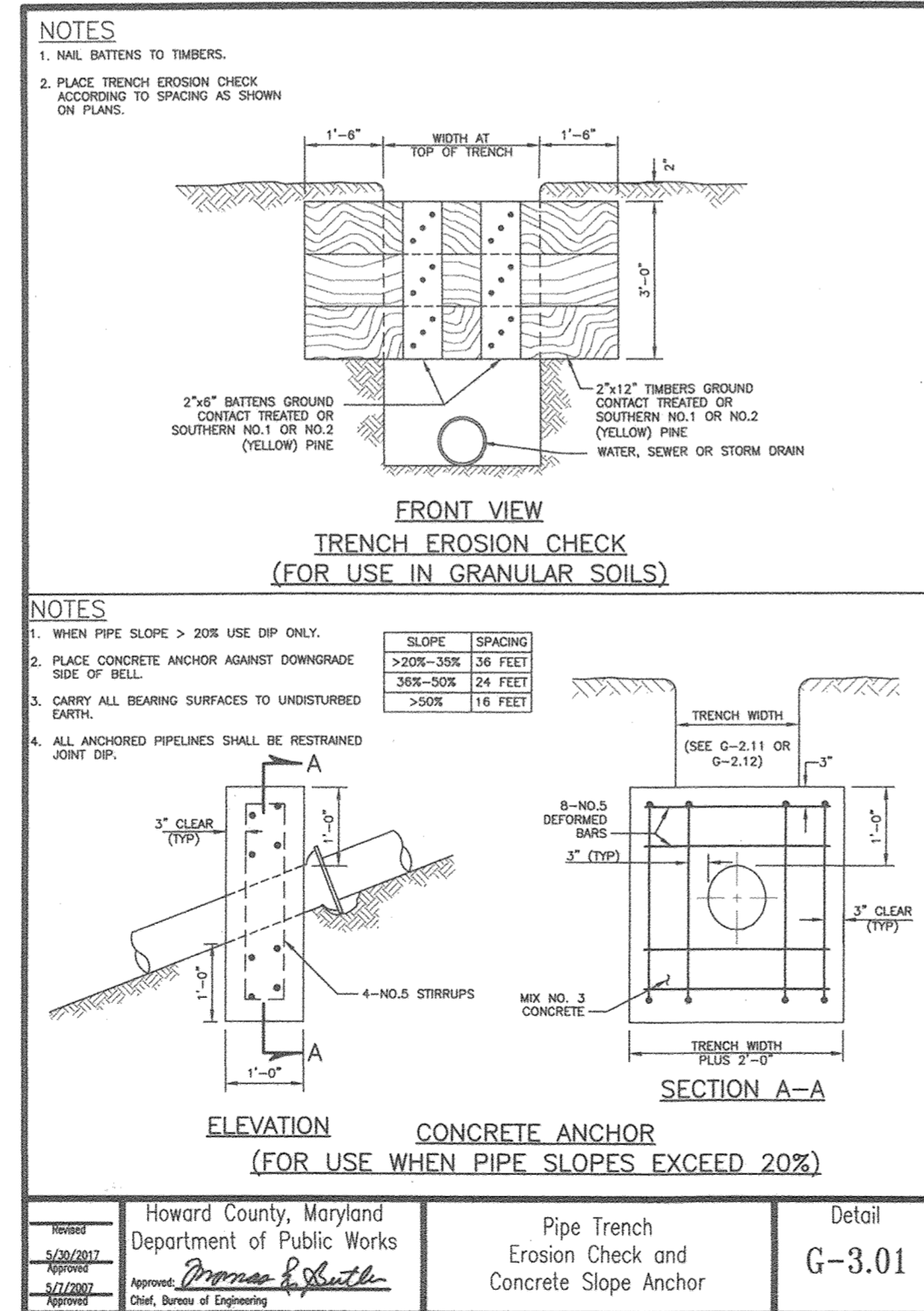
SEWER HOUSE CONNECTION SCHEDULE

LOT NO.	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2	INVERT @ 8" MAIN	INVERT @ RW	MIN. CELLAR ELEV.	BASEMENT FLOOR	FIRST FLOOR	SLOPE	DROP DEPTH	REMARKS
3	5025 POPLAR RIDGE LANE			302.96	304.18	300.31	386.60	396.60	2.0%	-	S-2.12
4	5017 POPLAR RIDGE LANE			315.91	316.11	300.89	396.60	406.60	2.0%	4.36'	S-2.12
5	5013 POPLAR RIDGE LANE			372.98	376.25	377.88	392.10	402.10	2.0%	3.07'	S-2.12
6	5009 POPLAR RIDGE LANE			366.84	369.72	371.61	384.10	394.10	2.0%	2.68'	S-2.12
7	5005 POPLAR RIDGE LANE			359.45	360.68	364.00	377.80	387.80	2.0%	-	S-2.12

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
101	4" PRECAST MANHOLE DOORHOUSE	N 574,136.3 E 1,376,561.9	330.10	323.61	319.61	G-5.14
102	STD. 4" PRECAST MANHOLE	N 574,178.7 E 1,376,678.8	356.32	348.47	347.75	G-5.12
103	STD. 4" PRECAST MANHOLE	N 574,169.1 E 1,378,751.8	359.96	355.21	355.11	G-5.12
104	4" PRECAST MANHOLE TERMINAL	N 574,144.58 E 1,374,161.51	316.30	302.11	302.50	G-5.12

- NOTES:
- TOP ELEVATIONS FOR PRECAST MANHOLES ARE TO THE CENTER TOP OF MANHOLE COVER.
 - TOP SLOPE OF STRUCTURES TO CONFORM TO SLOPE OF PAVING/GROUND.
 - LOCATION COORDINATES ARE CENTER OF STRUCTURE FOR MANHOLES.



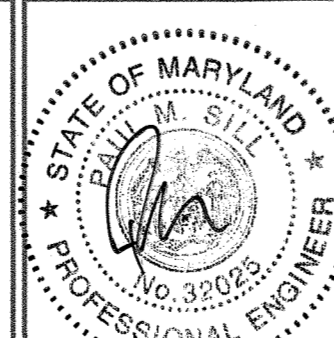
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HOWARD COUNTY, MARYLAND

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Civil Engineering for Land Development



DESIGNED BY: PS
DRAWN BY: MPO
CHECKED BY: PS
DATE: DECEMBER 15, 2020

NO.	DESCRIPTION	DATE
1	LOT 3 & 4 REVISIONS TO THE SEWER PROFILE, THE SEWER HOUSE CONNECTION SCHEDULE AND THE STRUCTURE SCHEDULE	11/01/21

FINAL PUBLIC WATER & SEWER PLANS
SEWER PROFILE

600' SCALE MAP NO. 31 BLOCK NO. 4

PENKUSKY PROPERTY

LOTS 1, 3 THRU 7, AND OPEN SPACE LOTS 2, 8 THRU 11

TAX MAP 31 GRID 4
1ST ELECTION DISTRICT

PARCEL 119
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-5000-D

SCALE:
AS
SHOWN

SHEET NO.

3 OF 4

1-13-21
DATE

12-21
DATE

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2021.

