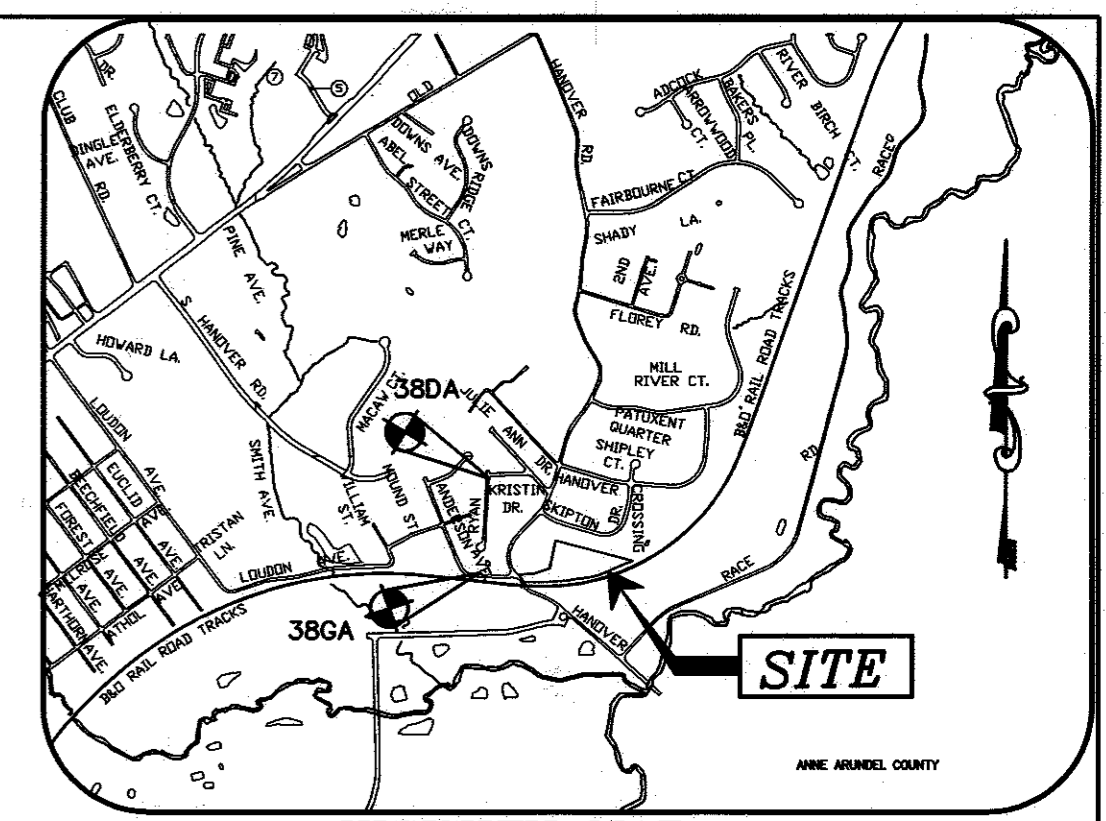


**QUANTITY TABLE**

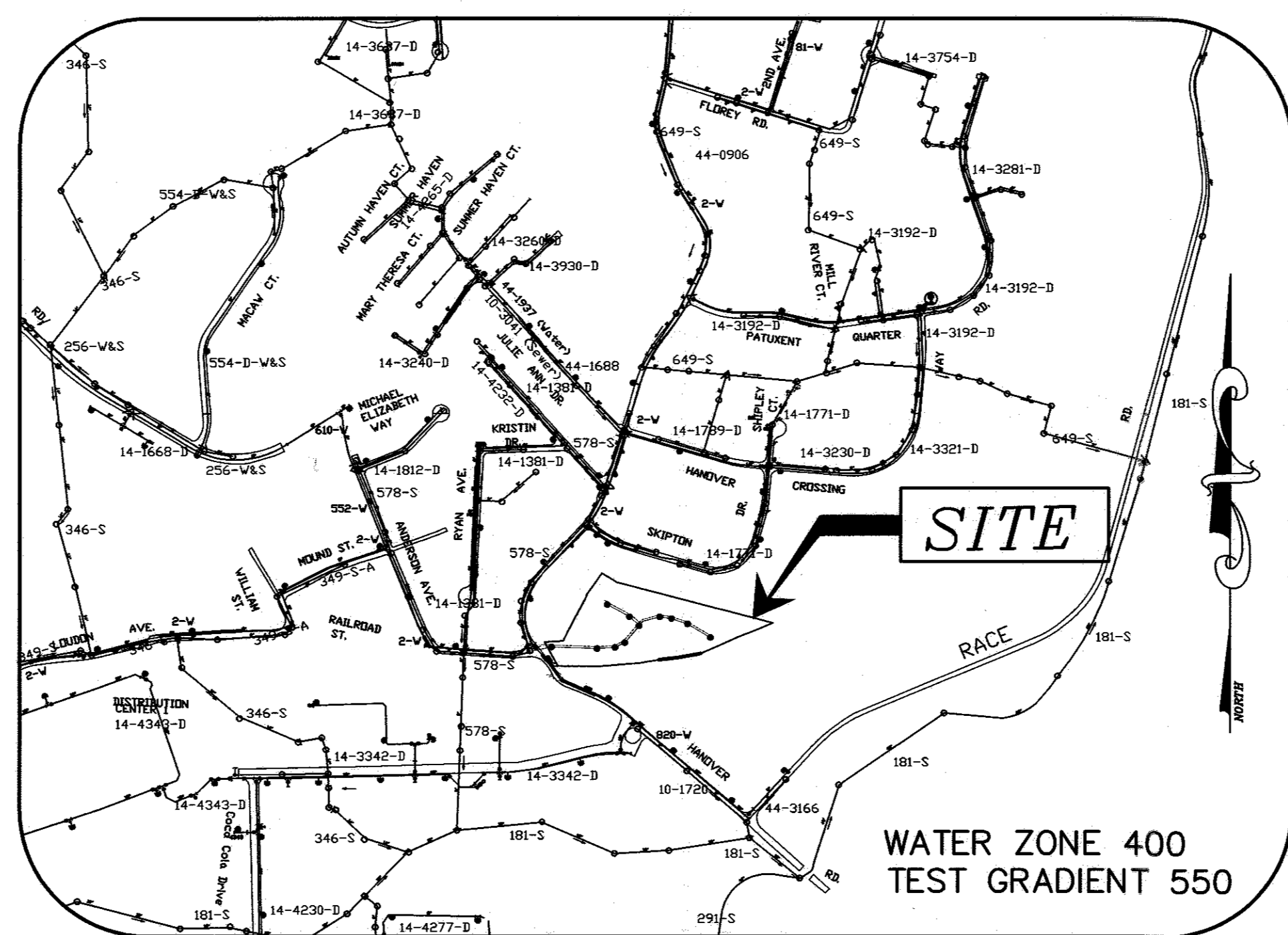
ITEMS	QUANTITIES ESTIMATED	QUANTITIES		
		TYPE	MANUFACTURER/SUPPLIER	
STANDARD MH (HO. CO. STD.G-5.12)	12 EACH			
8" SEWER MAIN (PVC)	634 LF			
4" SHC	385 LF			
# 4" SHC	15 EACH			
8" WATER MAIN (PVC C-900)	1,093 LF			
1 1/2" WATER HOUSE CONNECTION	202.31			
# 1 1/2" WHC	15 EACH			
12"x8" T. S. & V	1 EACH			
8"x8" T & V	1 EACH			
1/16 H.B. (8")	4 EACH			
1/32 H.B. (8")	4 EACH			
8"x6" F.H.T. & V.	3 EACH			
FIRE HYDRANT	3 EACH			
8" CAP & BUTTRESS	2 EACH			
6" SEWER MAIN (DIP)	275 LF			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

**CONTRACT NO.: 14-4962-D**  
**ROBERT'S CROSSING**  
**LOTS 1-15 AND OPEN SPACE LOTS 16 & 17**  
**FINAL WATER AND SEWER**  
**CONSTRUCTION PLANS**  
**HOWARD COUNTY, MARYLAND**



- GENERAL NOTES**
- PART I**
- 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.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT OCTOBER, 2004 BY CHRISTOPHER CONSULTANTS, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 37-BA AND NO. 37BB. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. MILDENBERG, BOENDER & ASSOCIATES, INC. SHALL PROVIDE DESCRIPTION OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES, ETC.
  - 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 THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
  - 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.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 AT&T.....1-800-252-1133  
 BGE (CONSTRUCTION SERVICES).....410-637-8713  
 BGE (EMERGENCY).....410-685-0123  
 BUREAU OF UTILITIES.....410-313-4900  
 COLONIAL PIPELINE CO.....410-795-1390  
 MISS UTILITY.....1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION.....410-531-5533  
 VERIZON.....1-800-743-0033
  - 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.
  - 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.
  - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE 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.

NO.	DESCRIPTION
1	TITLE SHEET
2	FINAL WATER AND SEWER PLAN
3	FINAL WATER AND SEWER PROFILES



**VICINITY MAP**  
SCALE: 1"=600'

- PART II WATER**
- ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
  - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
  - TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
  - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE 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.
  - 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. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. TWELVE (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.
  - PROPER ASSEMBLY OF GASKETED 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 PVC PIPE.
  - 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 OF PVC PIPE JOINTS IS 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 #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTOR EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1/4-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 LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTIPEC PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) BLUE BRUTE DR18 OR EQUAL.
  - 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 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 INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY FRABA IRON, INC. OR APPROVED EQUAL.

- PART III SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER, STANDARD DETAIL GS.52. WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

PLAN REFERENCE NUMBERS:  
ECP-15-081, SP-16-005  
F-17-098

**EROSION AND SEDIMENT CONTROL**  
**FOR THIS CONTRACT IS PROVIDED**  
**UNDER : F-17-098**

TYPE OF BUILDING	RESIDENTIAL
No. OF UNITS	15
No. OF WATER HOUSE CONNECTION	15
No. OF SEWER HOUSE CONNECTIONS	15
DRAINAGE AREA	PATAFSCO
TREATMENT PLANT	PATAFSCO

**OWNER**  
 HARMONY BUILDERS INC  
 4228 COLUMBIA ROAD  
 ELLICOTT CITY, MD 21042  
 410-461-0833

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

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. 17942, EXP DATE 09/03/18

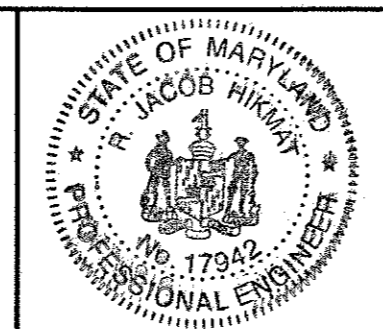
*John R. Robertson* 12/13/17  
 HOWARD SOIL CONSERVATION DISTRICT DATE

*R. Jacob Hikmat* 11/7/17  
 R. JACOB HIKMAT P.E. DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0296 Tel. (410) 997-0298 Fax



engineering	MMM				
illustration	MMM				
approval	RJH				
project	15-003				
date	NOV. 2017	BY	NO.	REVISION	DATE

**TITLE SHEET**

600' SCALE MAP NO. 38 BLOCK NO. 15

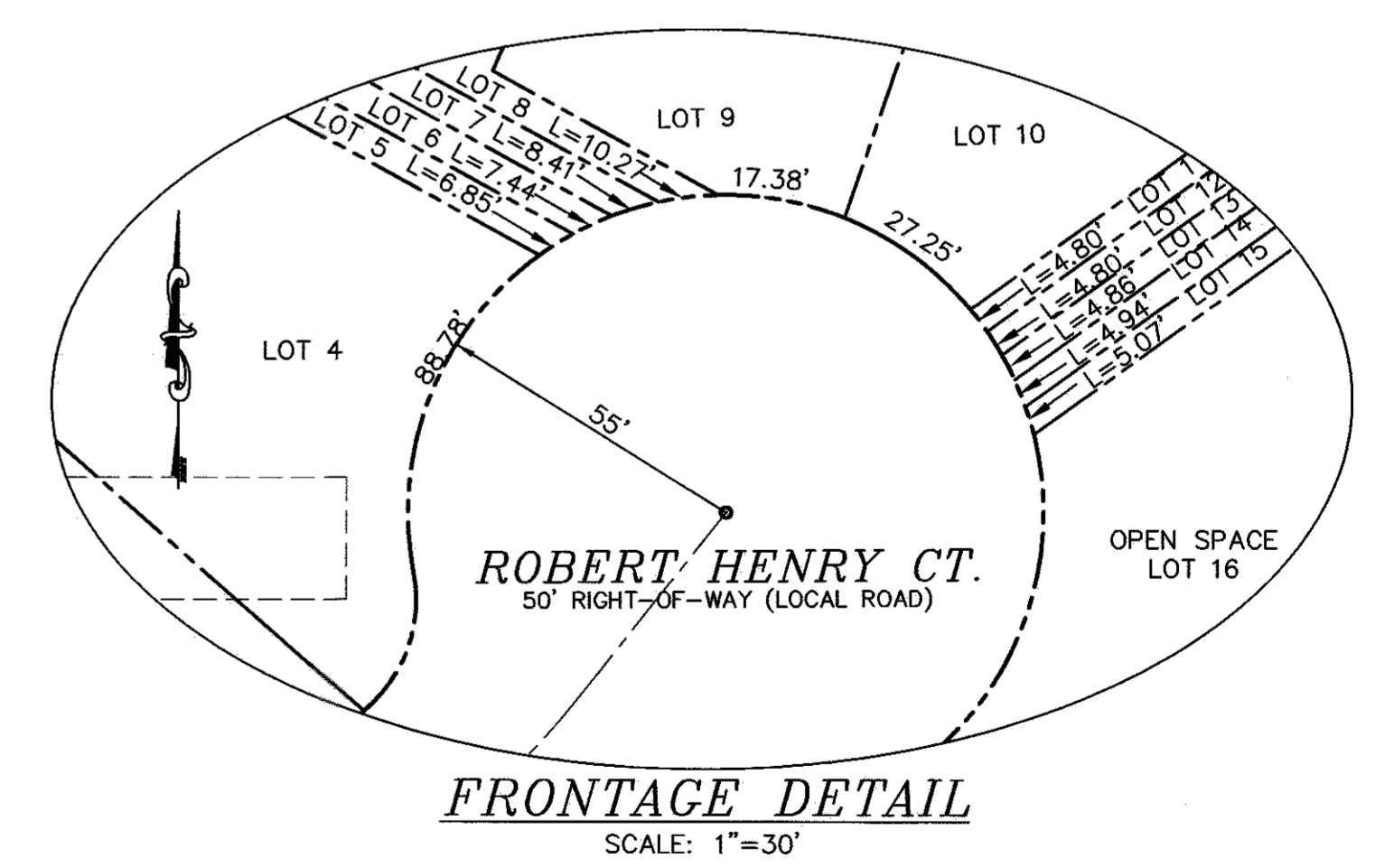
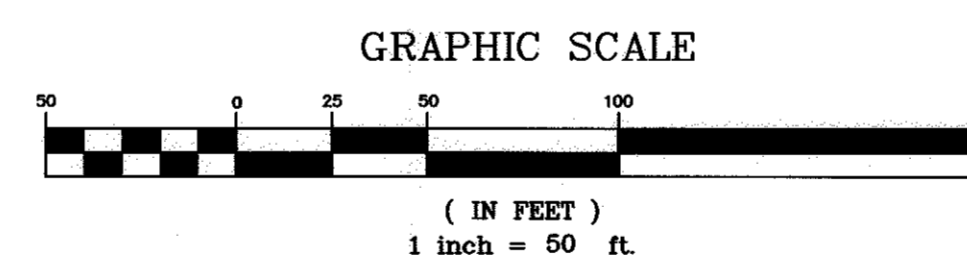
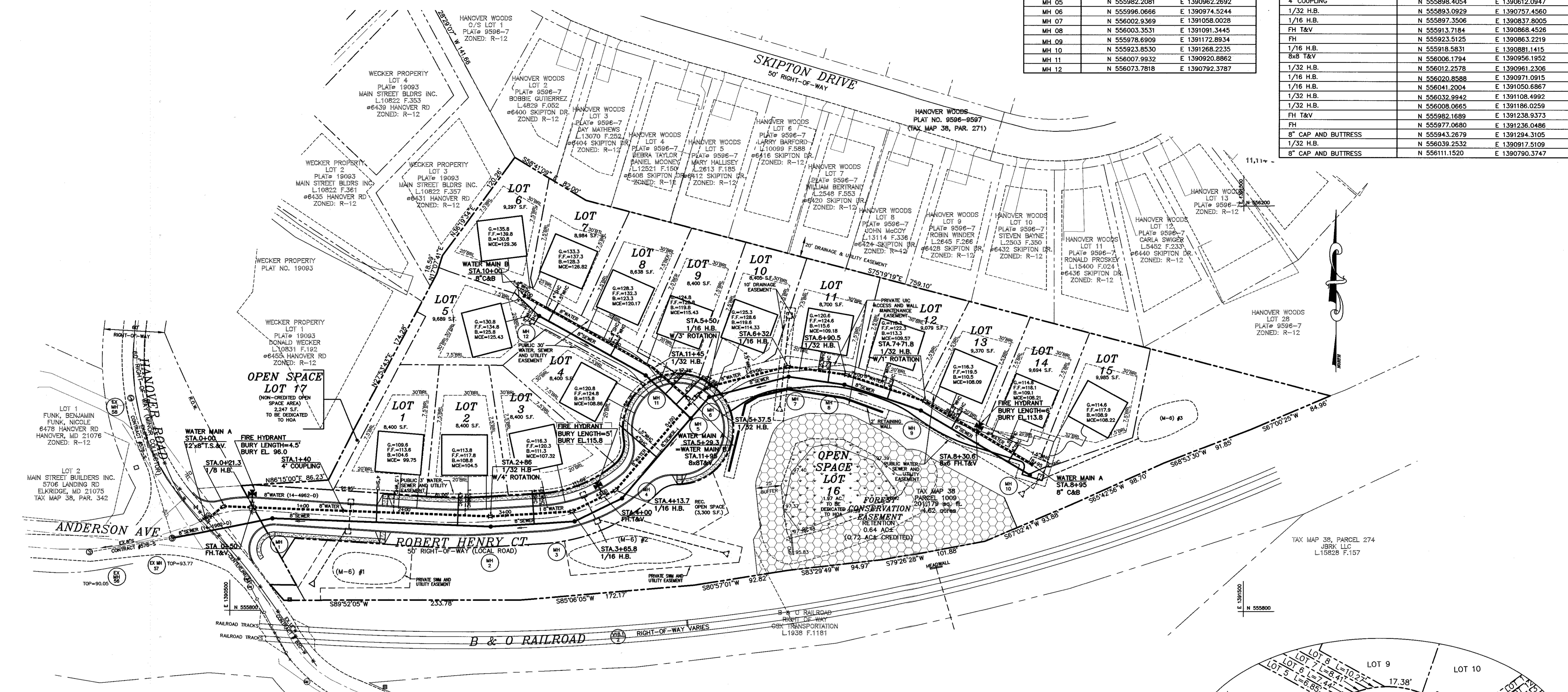
**ROBERT'S CROSSING**  
 LOTS 1-15 AND OPEN SPACE LOTS 16 & 17  
 CONTRACT NO.: 14-4962-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY

scale AS SHOWN  
**1 of 3**

P: 1200415-003 (DWG) PRELIMINARY W-5

MANHOLE LOCATION CHART		
MH #	LOCATION (NORTHING & EASTING)	
MH 01	N 555860.6965	E 1390568.8226
MH 02	N 555847.2889	E 1390756.8243
MH 03	N 555858.0451	E 1390822.6506
MH 04	N 555890.7691	E 1390906.0194
MH 05	N 555982.2081	E 1390962.2692
MH 06	N 555996.0666	E 1390974.5244
MH 07	N 556002.9369	E 1391058.0028
MH 08	N 556003.3531	E 1391091.3445
MH 09	N 555978.6909	E 1391172.8934
MH 10	N 555923.8530	E 1391268.2235
MH 11	N 556007.9932	E 1390920.8862
MH 12	N 556073.7818	E 1390792.3787

8" WATER MAIN TABULATION CHART		
APPURTENANCE	LOCATION (NORTHING & EASTING)	
12"x8" TS&V	N 555889.3298	E 1390476.6653
1/8" H.B.	N 555903.4072	E 1390494.4001
FH T&V	N 555902.2741	E 1390522.1820
FH	N 555914.9719	E 1390522.1861
4" COUPLING	N 555898.4054	E 1390612.0947
1/32" H.B.	N 555893.0929	E 1390757.4560
1/16" H.B.	N 555897.3506	E 1390837.8005
FH T&V	N 555913.7184	E 1390868.4526
FH	N 555923.5125	E 1390863.2219
1/16" H.B.	N 555918.5831	E 1390881.1415
8x8 T&V	N 556006.1794	E 1390956.1952
1/32" H.B.	N 556012.2578	E 1390961.2306
1/16" H.B.	N 556020.8588	E 1390971.0915
1/16" H.B.	N 556041.2004	E 1391050.6867
1/32" H.B.	N 556032.9942	E 1391108.4992
1/32" H.B.	N 556008.0665	E 1391186.0259
FH T&V	N 555982.1689	E 1391238.9373
FH	N 555977.0680	E 1391236.0486
8" CAP AND BUTTRESS	N 555943.2679	E 1391294.3105
1/32" H.B.	N 556039.2532	E 1390917.5109
8" CAP AND BUTTRESS	N 556111.1520	E 1390790.3747



**OWNER**  
 HARMONY BUILDERS INC  
 4228 COLUMBIA ROAD  
 ELLICOTT CITY, MD 21042  
 410-461-0833

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. 17962, EXP DATE 09/03/18

*R. JACOB HIKMAT P.E.*  
 R. JACOB HIKMAT P.E. DATE: 11/21/17

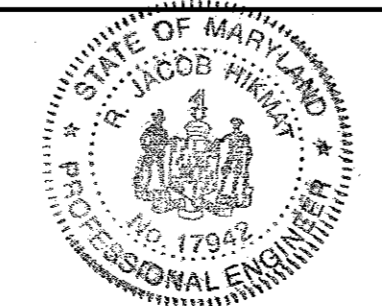
DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*Chief, Bureau of Utilities*  
 DATE: 12-1-17

*Chief, Development Engineering Division*  
 DATE: 12-1-17

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, Maryland 21044  
 (410) 997-0286 Tel. (410) 997-0288 Fax.



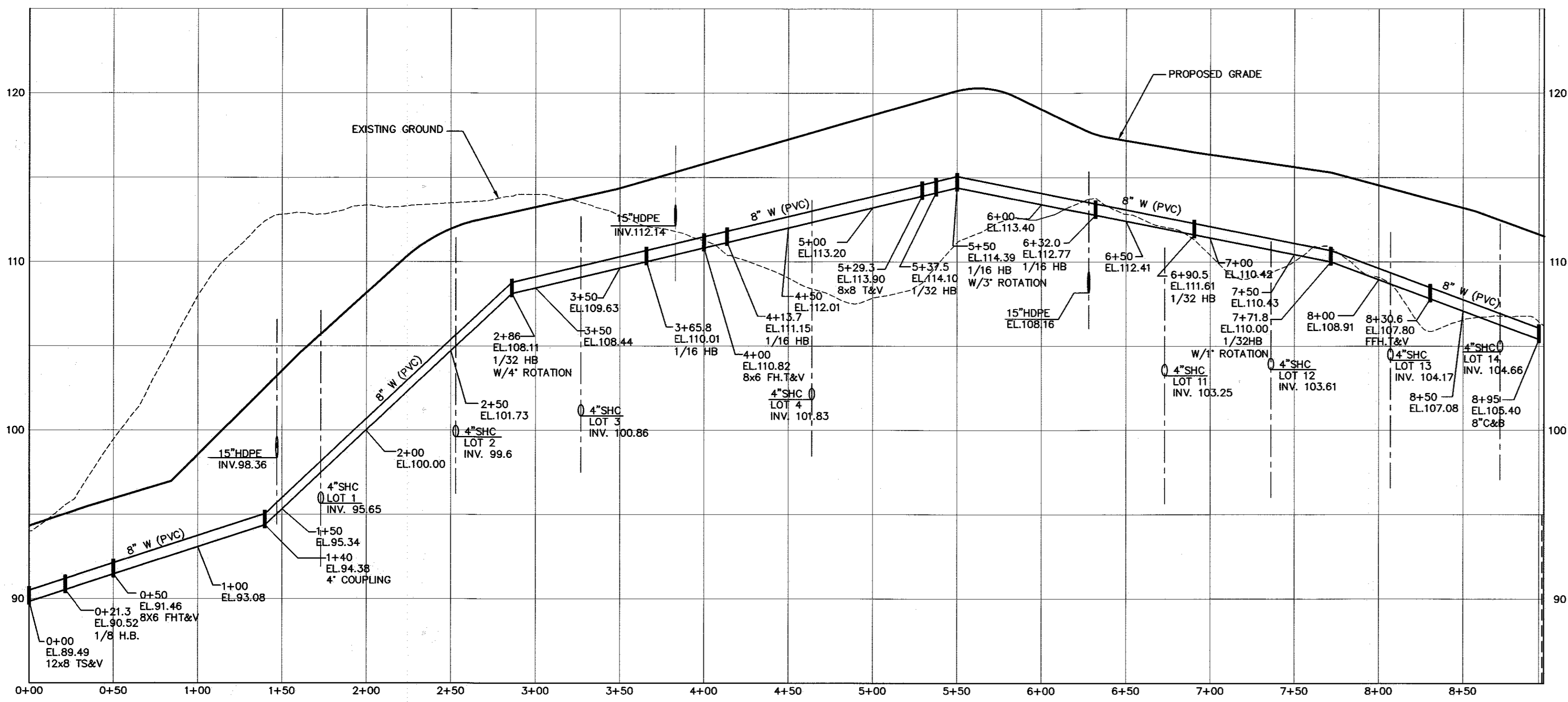
engineering	MMM				
illustration	MMM				
approval	RJH				
project	15-003				
date	NOV. 2017	BY	NO.	REVISION	DATE

**FINAL WATER AND SEWER PLAN**

600' SCALE MAP NO. 38 BLOCK NO. 15

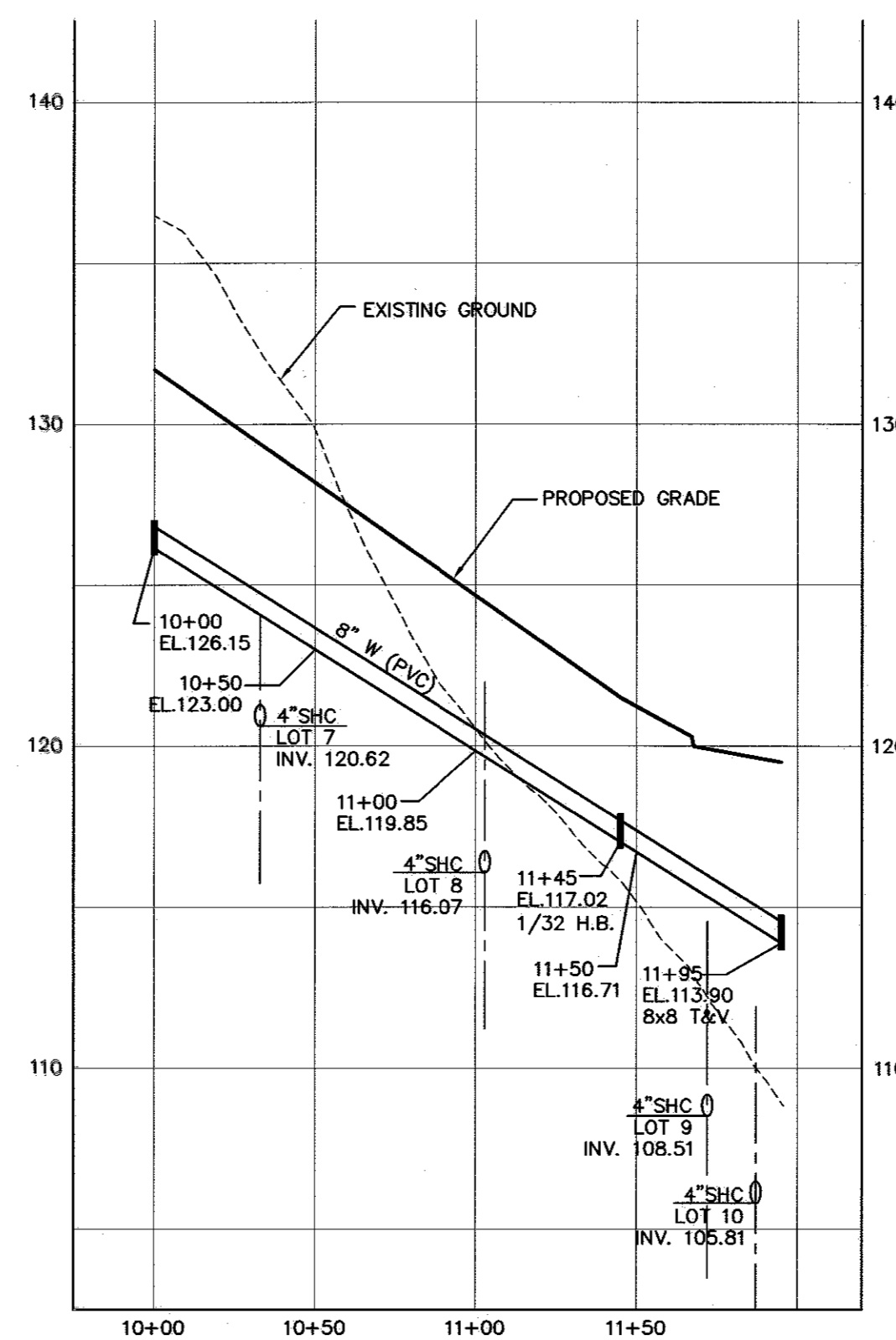
**ROBERT'S CROSSING**  
 LOTS 1-15 AND OPEN SPACE LOTS 16 & 17  
 CONTRACT NO.: 14-4962-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY

scale 1"=50'  
 2 of 3



**WATER MAIN PROFILE**

SCALE: 1"=50' HOR  
1"=5' VER



**WATER MAIN PROFILE**

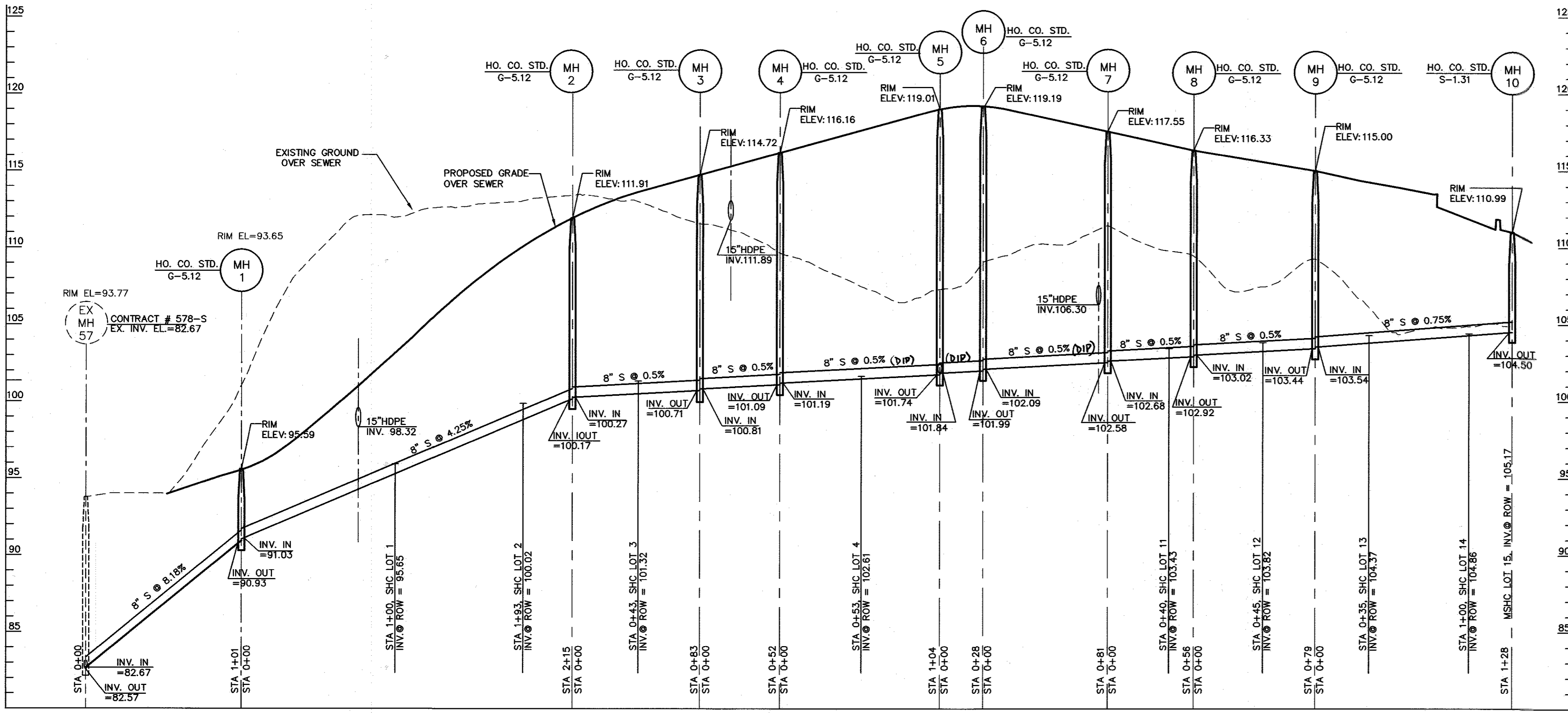
SCALE: 1"=50' HOR  
1"=5' VER

**SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

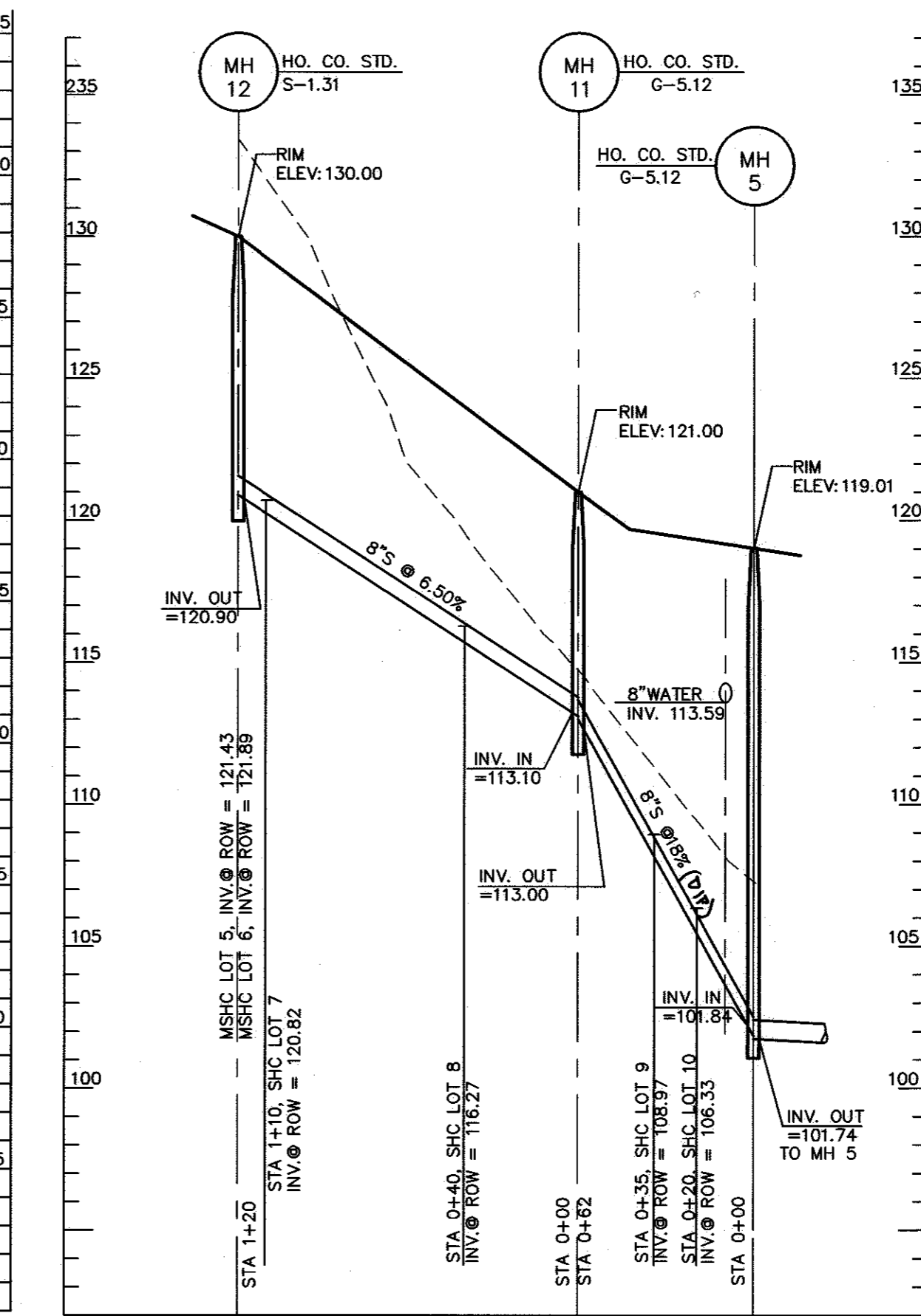
**WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			



**SEWER MAIN PROFILE (EX MH 57 - MH 10)**

SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'



**SEWER MAIN PROFILE (MH 5 - MH 12)**

SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

**SEWER HOUSE CONNECTION TABLE**

LOT #	% SLOPE	INV. @ 8" S	INV. @ R.O.W.	MCE	BE
1	2%	95.07	95.65	99.75	104.6
2	2%	99.40	100.02	104.5	108.8
3	5%	100.66	101.32	107.32	111.3
4	5%	101.63	102.61	108.86	115.8
5	2%	121.23	121.43	125.43	125.8
6	2%	121.23	121.89	129.36	130.8
7	5%	120.42	120.82	126.82	128.3
8	2%	115.87	116.27	120.17	123.3
9	5%	108.31	108.97	115.43	119.8
10	5%	105.61	106.33	114.33	119.6
11	5%	103.05	103.43	109.18	115.6
12	5%	103.42	103.82	109.57	113.3
13	2%	103.97	104.37	108.09	110.5
14	2%	104.46	104.86	108.21	109.1
15	2%	104.83	105.17	108.22	108.9

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*[Signature]*  
R. JOZOB HIKMAT P.E. DATE: 11/11/17

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4228 COLUMBIA ROAD  
ELLCOTT CITY, MD 21042  
410-461-0833

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, BUREAU OF UTILITIES DATE: 12-1-17

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 12-1-17

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0236 Tel. (410) 997-0236 Fax.



engineering	MMM				
illustration	MMM				
approval	RJH				
project	15-003				
date	NOV. 2017	BY	NO.	REVISION	DATE

**FINAL WATER AND SEWER PROFILES**

600' SCALE MAP NO. 38 BLOCK NO. 15

**ROBERT'S CROSSING**  
LOTS 1-15 AND OPEN SPACE LOTS 16&17  
CONTRACT NO.: 14-4962-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY

scale 1"=50'  
3 of 3