

QUANTITIES					
ITEM	ESTIMATED	AS-BUILT		TYPE	SUPPLIER
		QUANTITIES			
8" PVC SDR-35	1541 LF.	1555 LF	SDR-35	NATIONAL PIPE	
4" PVC SDR-35	727 LF.	600 LF	SDR-35	"	
CLEAN-OUTS	30 EACH	29 EA.	CONC. BLOCK	PRISM PRECAST	
MANHOLE	12 EACH	12 EA.	CONCRETE	CONTRACTOR'S PRECAST	
8" PVC DR-18	1163 LF.	1100 LF	DR-18 C-900	NATIONAL PIPE	
8" PVC DR-18	990 LF.	819 LF	DR-18 C-900	"	
1-1/2" W.H.C.	664 L.F.	660 L.F.	K COPPER	CAMBRIDGE LEE	
3" H.D.C.	1 EACH	1 EA.	PVC	CERTAINTY PIPE	
1/8" H.B.	3 EACH	3 EA.	DIP	TYLER UNION	
1/16" H.B.	5 EACH	5 EA.	DIP	"	
1/32" H.B.	1 EACH	1 EA.	DIP	"	
8" X 8" TEE	2 EACH	2 EA.	DIP	"	
8" X 6" TEE	4 EACH	4 EA.	DIP	"	
8" VALVE	5 EACH	5 EA.	DIP	AMERICAN FLOW CONTROL	
6" VALVE	4 EACH	4 EA.	DIP	"	
8" PLUG & BUTTRESS	2 EACH	2 EA.	DIP	TYLER UNION	
8" PLUG & BUTTRESS	1 EACH	1 EA.	DIP	"	
FIRE HYDRANT	3 EACH	3 EA.	B 84 B	AMERICAN DARLING	
CONTINUITY TEST STATION	3 EACH	3 EA.	CONCRETE	VESTAL MANUFACTURING	
SINGLE OUTSIDE METER SETTING	27 EACH	27 EA.	FORD (CUSTOMER)	FORD	

**BENCHMARK INFORMATION**

B.M.#1 - HOWARD COUNTY CONTROL STATION #47H2 - HORIZONTAL - NAD '83  
 (LOCATED ALONG ALL SAINTS ROAD, APPROX. 1/4 MILE EAST OF ROUTE 216; ROUGHLY 2.89' OFF THE EDGE OF PAVING)  
 N 529,706.429  
 E 1,355,445.341  
 ELEVATION = 256.093 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #47GE - HORIZONTAL - (NAD '83)  
 (LOCATED ALONG OLD SCAGSVILLE ROAD, BETWEEN POWER POLES, #375251 & #31000. APPROX. 2.2' OFF EDGE OF PAVING, IN FRONT OF HOUSE #9160)  
 N 529,044.964  
 E 1,350,854.953  
 ELEVATION = 359.756 - VERTICAL - (NAVD '88)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
359	9147 RIVER HILL ROAD	DAVID & TERRY ASHBY	YES	YES
359	9151 RIVER HILL ROAD	KATHLEEN WOODWARD	N/A	YES
361	9130 RIVER HILL ROAD	THOMAS KUCKUDA & WIFE	N/A	YES
362	9140 RIVER HILL ROAD	PATRICK & SARA PELOWSKI	N/A	YES
474	9150 RIVER HILL ROAD	TIMOTHY McDONALD	YES	YES

NOTE: WATER METERS WILL NOT BE RELEASED BY HOWARD COUNTY TO ANY NEW BUILDING UNTIL THE EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING BUILDINGS WHICH ARE TO REMAIN, ARE CONNECTED TO THE PUBLIC WATER AND SEWER MAINS.

**DEVELOPER'S CERTIFICATION**

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Koebel; FOR: 11-07-16  
 LAND DESIGN & DEVELOPMENT, INC. DATE  
 SIGNATURE OF DEVELOPER

**ENGINEER'S CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Koebel; FOR: 11/07/16  
 LAND DESIGN & DEVELOPMENT, INC. DATE  
 SIGNATURE OF DEVELOPER

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE ROAD CONSTRUCTION PLAN, F-16-041.

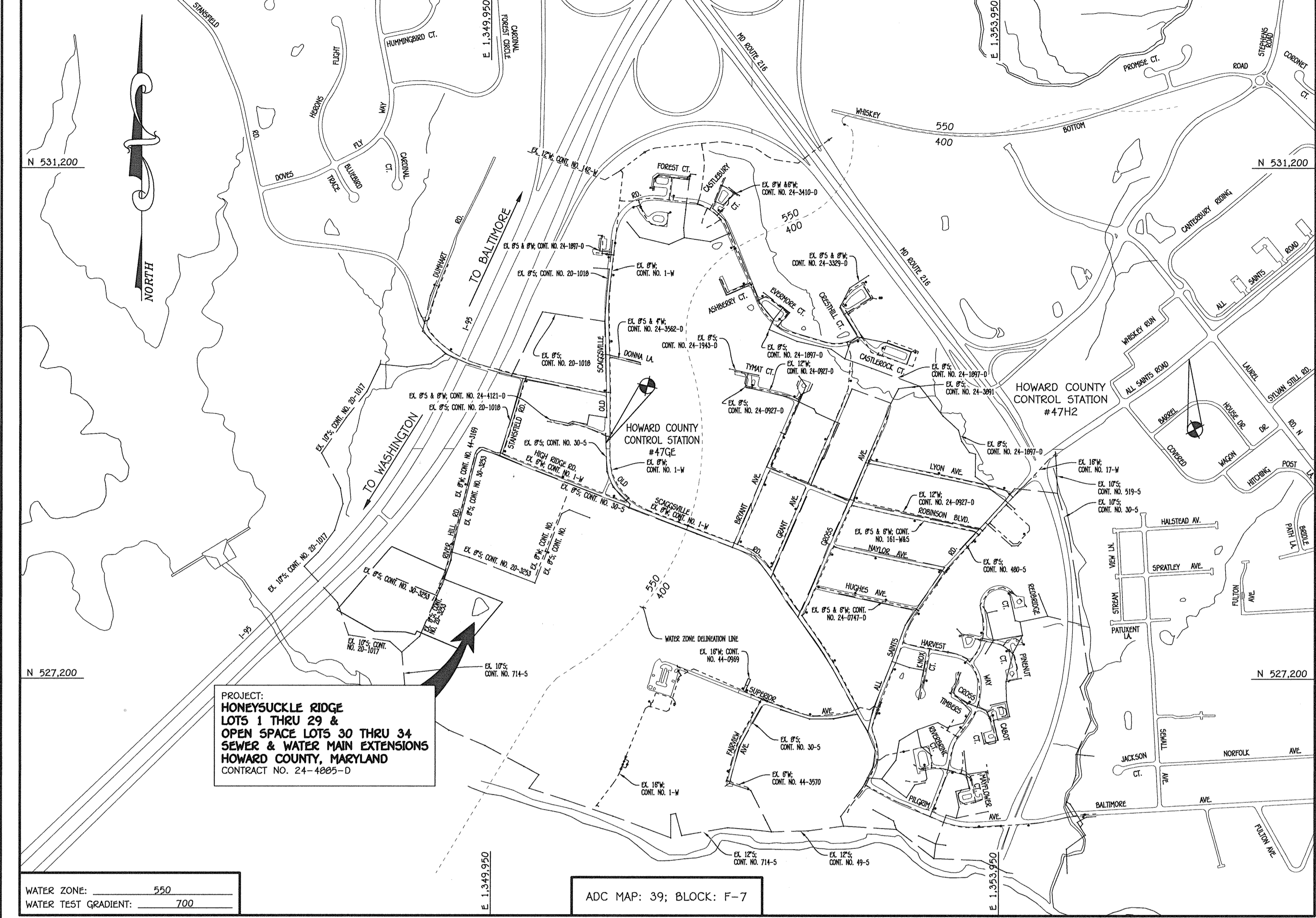
Paul W. Koebel; FOR: 11-07-16  
 LAND DESIGN & DEVELOPMENT, INC. DATE  
 SIGNATURE OF DEVELOPER

F-16-041

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

APPROVED: John R. Robertson 11/30/16  
 HOWARD SOIL CONSERVATION DISTRICT DATE

LEGEND	
SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
○	EX. SEWER MANHOLE
---	EX. SEWER, WATER & UTILITY EASEMENT
---	EX. FIRE HYDRANT
○	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
○	PROP. SEWER MANHOLE
---	PROP. SEWER, WATER & UTILITY EASEMENT
---	PROP. W.H.C.
---	PROP. S.H.C.
---	PROP. FIRE HYDRANT
○	PROP. VALVE



TYPE OF BUILDING:		RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF PARCELS:	4	
NO. OF WATER HOUSE CONNECTIONS:	29	
NO. OF SEWER HOUSE CONNECTIONS:	28	
SEWER SHED:	LITTLE PATUXENT	
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, MARYLAND	

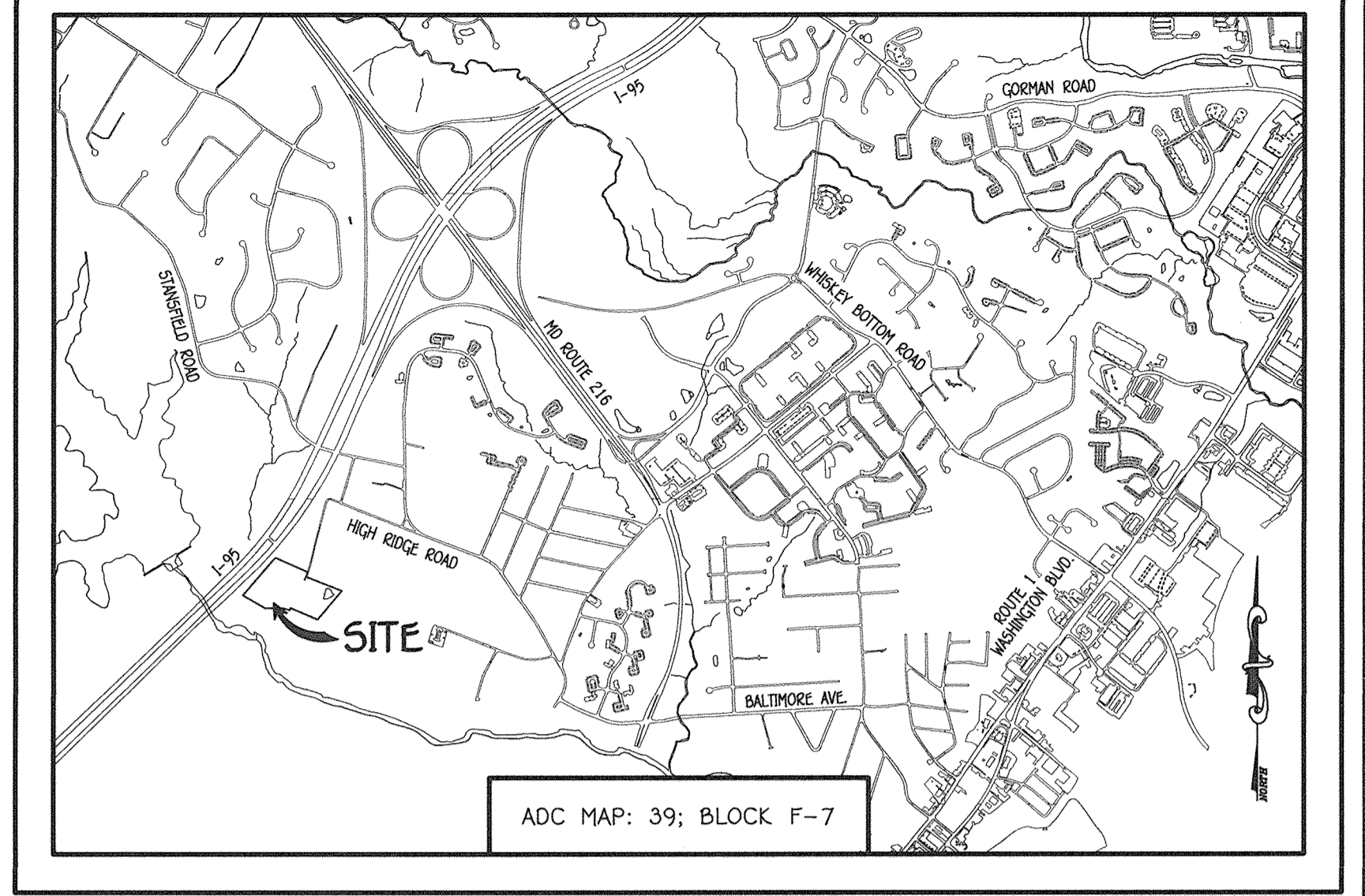
# CONTRACT NO. 24-4885-D

## HONEYSUCKLE RIDGE

### LOTS 1 THRU 29 & OPEN SPACE LOTS 30 THRU 34 SEWER & WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

**AS-BUILT**

DEVELOPER  
 Paul W. Koebel  
 LAND DESIGN & DEVELOPMENT, INC.  
 5300 DORSEY HALL DRIVE  
 SUITE 102  
 ELLICOTT CITY, MARYLAND 21042  
 (410)-367-0422  
 ATTN: MR. JOE RUTTER



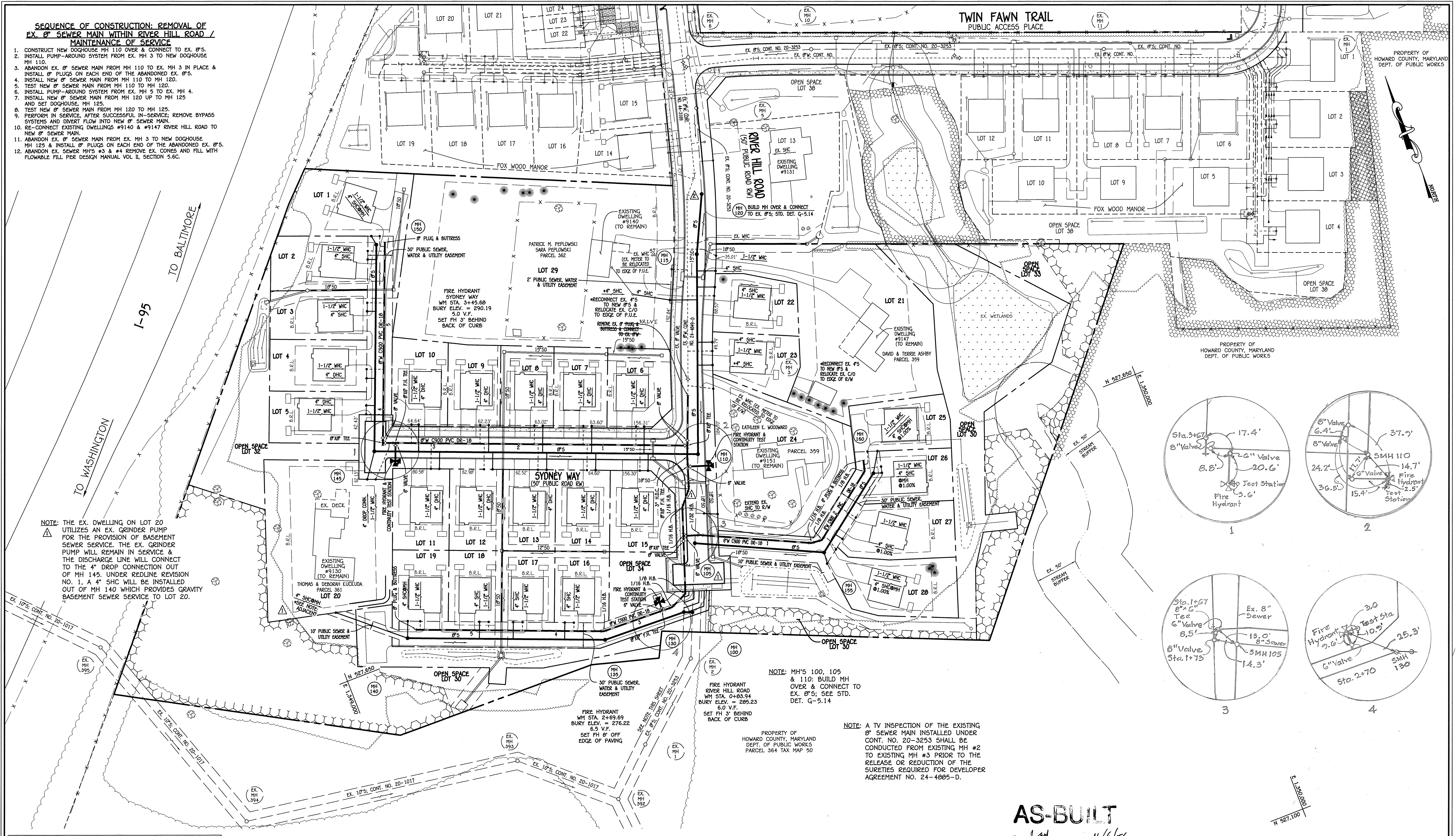
- GENERAL NOTES**
- SCALE: 1" = 2000'
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT JANUARY, 2013 BY FISHER, COLLINS & CARTER, 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 STATIONS NO. 47H2 & NO. 47G. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
  - 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 10' 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 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 SITE.
  - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) 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
BOE (CONTRACTOR SERVICES)	410-637-8713
EMERGENCY	410-695-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MESS UTILITIES	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
  - 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.
  - 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 THE 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(e) OF THE HOWARD COUNTY CODE.
- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AMMA C900 PVC, DR-18.
  - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
  - 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 WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH 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 AMMA 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, SEVENTEEN (17) POUND 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. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. 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 CUT OR TRIM 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, UNLESS 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, TAKING CARE NOT TO USE CONNECTION EQUIPMENT DIRECTLY OVER THE FITTING.
  - PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 225 PSI MEETING THE REQUIREMENTS OF AMMA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTY PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
  - FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AMMA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.
  - WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AMMA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLUG MARLINS 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 INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 4000 MESA-STOP, AS MANUFACTURED BY FEMA IRON, INC. OR APPROVED EQUAL. TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.28 OR W-3.32.
- PART C: SEWER MAIN GENERAL NOTES**
- 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 18" WALLS ARE FOR BOX MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSES) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Steve C. Coen CHIEF, BUREAU OF UTILITIES 11/17/16 DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Chad Edmister CHIEF, DEVELOPMENT ENGINEERING DIVISION 12-20-16 DATE	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. 12043 EXPIRATION DATE IS 7/16/18. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2292 Paul W. Koebel PAUL W. KOEBEL	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: NOVEMBER, 2016 POC: [Signature] REVISION: [Signature] DATE: 4/9/18 DATE: 1/19/18	SEWER & WATER MAIN EXTENSIONS TITLE SHEET 600' SCALE MAP NO. 50 BLOCK NO. 1 F.C.C. WORK ORDER NO. 12036-3002 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN	CONTRACT NO. 24-4885-D HONEYSUCKLE RIDGE LOTS 1 THRU 29 AND OPEN SPACE LOTS 30 THRU 34 SEWER & WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 1 OF 6
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**SEQUENCE OF CONSTRUCTION: REMOVAL OF EX. 8" SEWER MAIN WITHIN RIVER HILL ROAD / MAINTENANCE OF SERVICE**

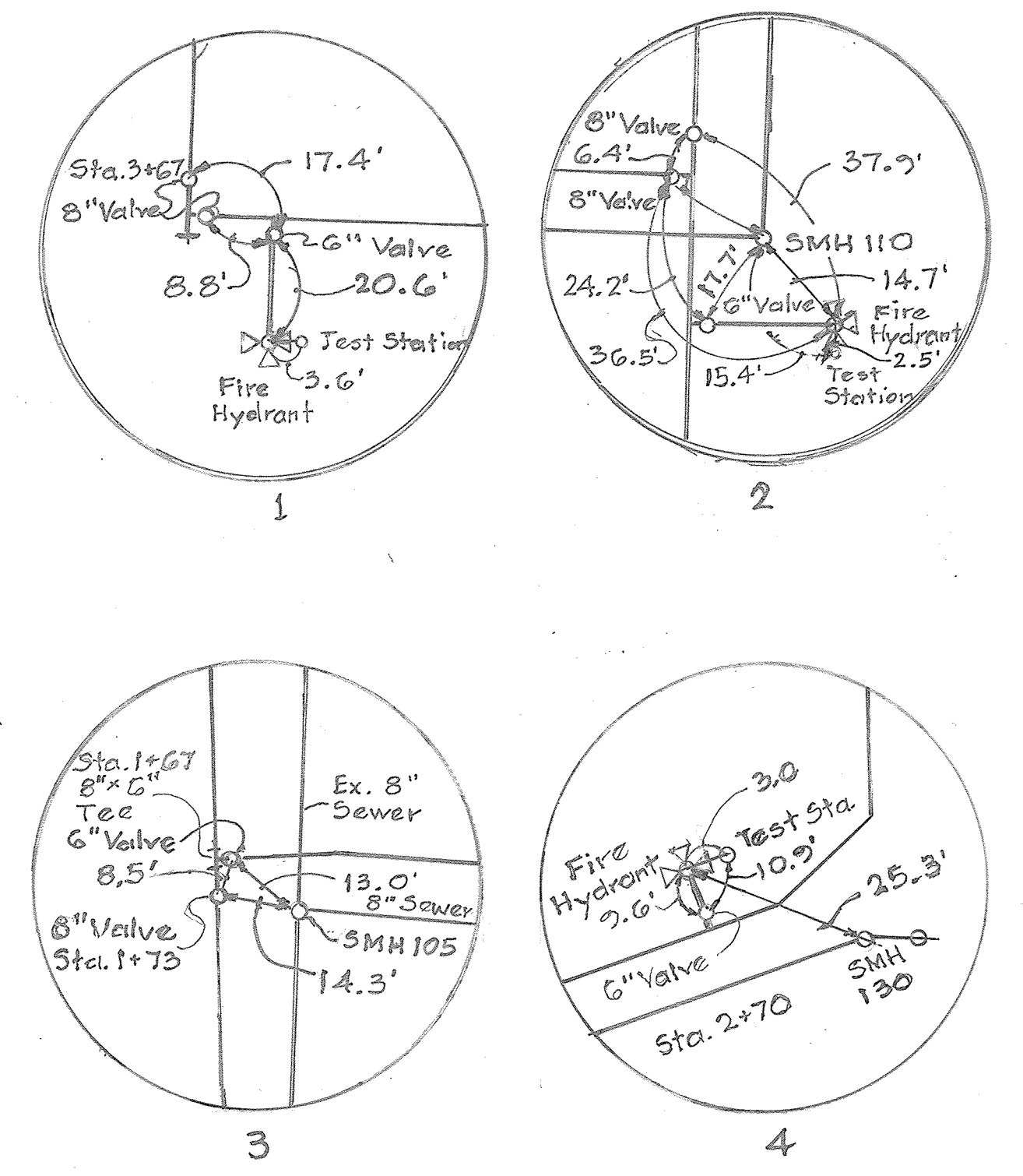
1. CONSTRUCT NEW DOGHOUSE MH 110 OVER & CONNECT TO EX. 8".
2. INSTALL PUMP-AROUND SYSTEM FROM EX. MH 3 TO NEW DOGHOUSE MH 110.
3. ABANDON EX. 8" SEWER MAIN FROM MH 110 TO EX. MH 3 IN PLACE & INSTALL 8" PLUGS ON EACH END OF THE ABANDONED EX. 8".
4. INSTALL NEW 8" SEWER MAIN FROM MH 110 TO MH 120.
5. TEST NEW 8" SEWER MAIN FROM MH 110 TO MH 120.
6. INSTALL PUMP-AROUND SYSTEM FROM EX. MH 5 TO EX. MH 4.
7. INSTALL NEW 8" SEWER MAIN FROM MH 120 UP TO MH 125 AND SET DOGHOUSE, MH 125.
8. TEST NEW 8" SEWER MAIN FROM MH 120 TO MH 125.
9. PERFORM IN SERVICE, AFTER SUCCESSFUL IN-SERVICE; REMOVE BYPASS SYSTEMS AND DIVERT FLOW INTO NEW 8" SEWER MAIN.
10. RE-CONNECT EXISTING DWELLINGS #9140 & #9147 RIVER HILL ROAD TO NEW 8" SEWER MAIN.
11. ABANDON EX. 8" SEWER MAIN FROM EX. MH 3 TO NEW DOGHOUSE MH 125 & INSTALL 8" PLUGS ON EACH END OF THE ABANDONED EX. 8".
12. ABANDON EX. SEWER MHS #3 & #4 REMOVE EX. CONES AND FILL WITH FLOWABLE FILL PER DESIGN MANUAL VOL. II, SECTION 5.6C.



**NOTE:** THE EX. DWELLING ON LOT 20 UTILIZES AN EX. GRINDER PUMP FOR THE PROVISION OF BASEMENT SEWER SERVICE. THE EX. GRINDER PUMP WILL REMAIN IN SERVICE & THE DISCHARGE LINE WILL CONNECT TO THE 4" DROP CONNECTION OUT OF MH 145. UNDER REDLINE REVISION NO. 1, A 4" SHC WILL BE INSTALLED OUT OF MH 140 WHICH PROVIDES GRAVITY BASEMENT SEWER SERVICE TO LOT 20.

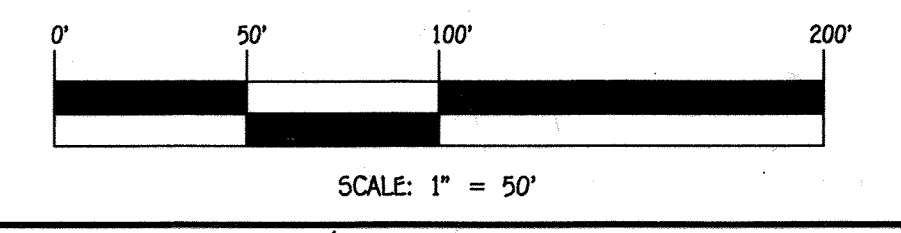
**NOTE:** MH'S 100, 105 & 110: BUILD MH OVER & CONNECT TO EX. 8"; SEE STD. DET. G-5.14

**NOTE:** A TV INSPECTION OF THE EXISTING 8" SEWER MAIN INSTALLED UNDER CONT. NO. 20-3253 SHALL BE CONDUCTED FROM EXISTING MH #2 TO EXISTING MH #3 PRIOR TO THE RELEASE OR REDUCTION OF THE SURETIES REQUIRED FOR DEVELOPER AGREEMENT NO. 24-4885-D.



**NOTE:** THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 20, 2018.

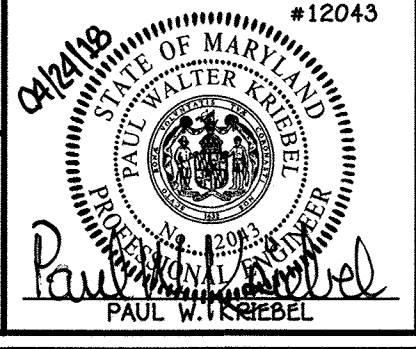
**AS-BUILT**



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
CHIEF, BUREAU OF UTILITIES  
DATE: 5/11/18

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 5-22-18

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.  
#12043  
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2899



DESIGNED BY:	B.C.R.	DATE:
DRAWN BY: <td>FCC</td> <td>4/24/18</td>	FCC	4/24/18
CHECKED BY: <td>FCC</td> <td>1/11/18</td>	FCC	1/11/18
DATE: <td>FCC</td> <td>1/11/18</td>	FCC	1/11/18
BY NO. <td>REVISION <td>DATE </td></td>	REVISION <td>DATE </td>	DATE

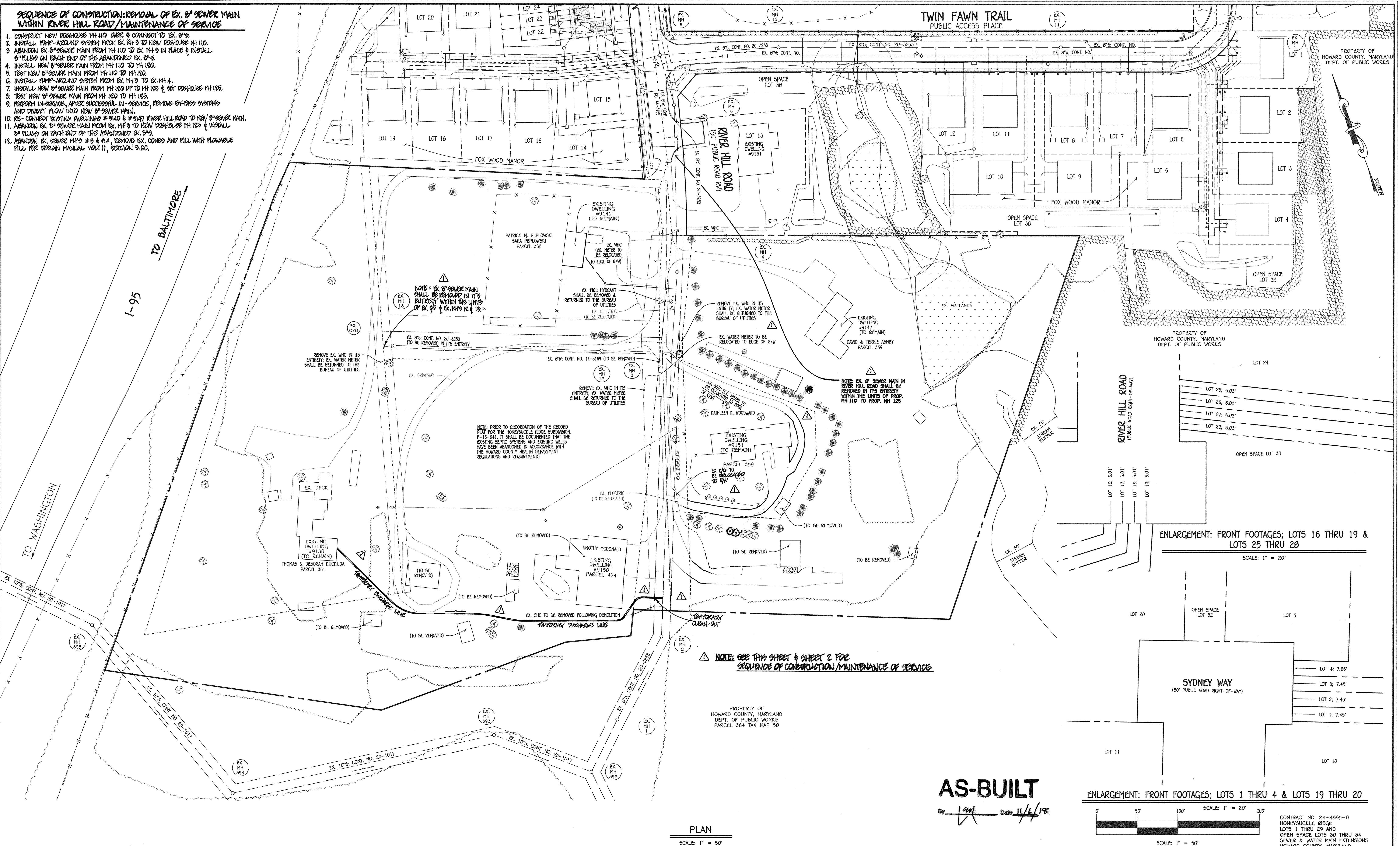
**SEWER & WATER MAIN EXTENSIONS PLAN**  
600' SCALE MAP NO. 50 BLOCK NO. 1  
F.C.C. WORK ORDER NO. 12036-3002  
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

**HONEYSUCKLE RIDGE**  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 24-4885-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN  
SHEET 2 OF 6

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**SEQUENCE OF CONSTRUCTION: REMOVAL OF EX. 8" SEWER MAIN WITHIN RIVER HILL ROAD/MAINTENANCE OF SERVICE**

1. CONSTRUCT NEW DOWNGRADE MH 110 OVER & CONNECT TO EX. 8".
2. INSTALL PUMP-AROUND SYSTEM FROM EX. MH 3 TO NEW DOWNGRADE MH 110.
3. ABANDON EX. 8" SEWER MAIN FROM MH 110 TO EX. MH 9 IN PLACE & INSTALL 6" PULLS ON EACH END OF THE ABANDONED EX. 8".
4. INSTALL NEW 8" SEWER MAIN FROM MH 110 TO MH 120.
5. TEST NEW 8" SEWER MAIN FROM MH 110 TO MH 120.
6. INSTALL PUMP-AROUND SYSTEM FROM EX. MH 5 TO EX. MH 4.
7. INSTALL NEW 8" SEWER MAIN FROM MH 120 UP TO MH 125 & SET DOWNGRADE MH 125.
8. TEST NEW 8" SEWER MAIN FROM MH 120 TO MH 125.
9. PERFORM IN-SERVICE, AFTER SUCCESSFUL IN-SERVICE, REMOVE EX-PASS SYSTEMS AND DIVERT FLOW INTO NEW 8" SEWER MAIN.
10. RE-CONNECT BROOKING PAVEMENT #9140 & #9147 RIVER HILL ROAD TO NEW 8" SEWER MAIN.
11. ABANDON EX. 8" SEWER MAIN FROM EX. MH 3 TO NEW DOWNGRADE MH 125 & INSTALL 6" PULLS ON EACH END OF THE ABANDONED EX. 8".
12. ABANDON EX. SEWER MH 9 & #4, REMOVE EX. CONES AND FILL WITH FLOWABLE FILL PER DESIGN MANUAL VOL. 11, SECTION 5.50.



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, BUREAU OF UTILITIES

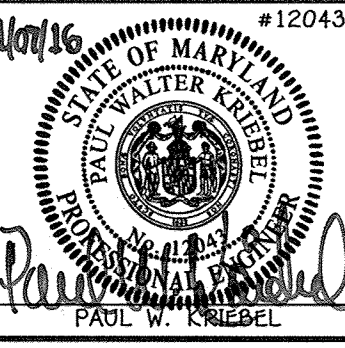
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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. 12043 EXPIRATION DATE IS 7/16/18.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENIAL SQUARE OFFICE PARK - 12272 BALTIMORE NATIONAL Pkwy  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2895



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2016
BY:	NO.
REVISION:	DATE

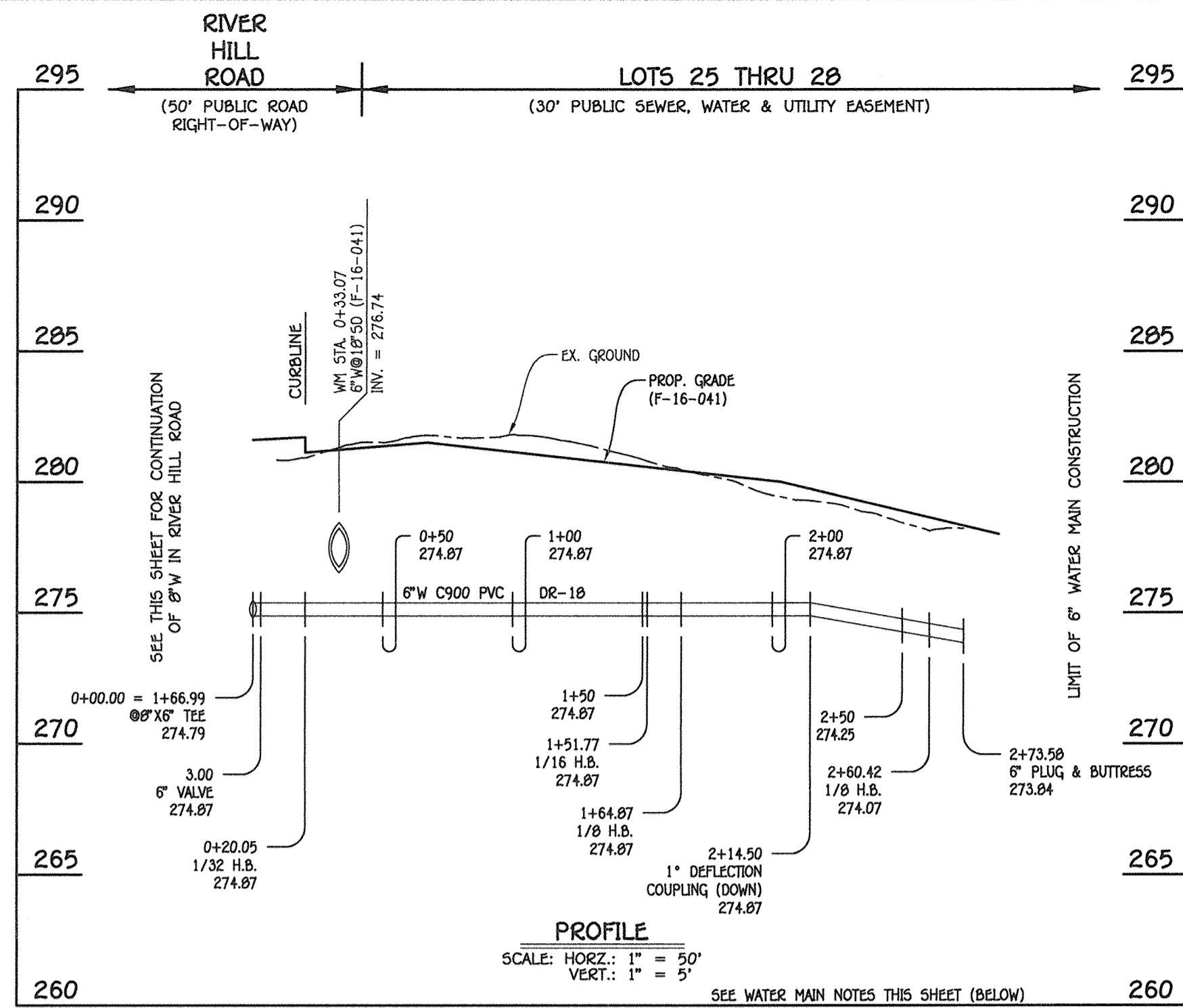
EXISTING CONDITIONS & DEMO PLAN  
ENLARGEMENT: FRONT FOOTAGE DETAILS

600' SCALE MAP NO. 50 BLOCK NO. 1  
F.C.C. WORK ORDER NO. 12036-3002  
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

**HONEYSUCKLE RIDGE**  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 24-4885-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

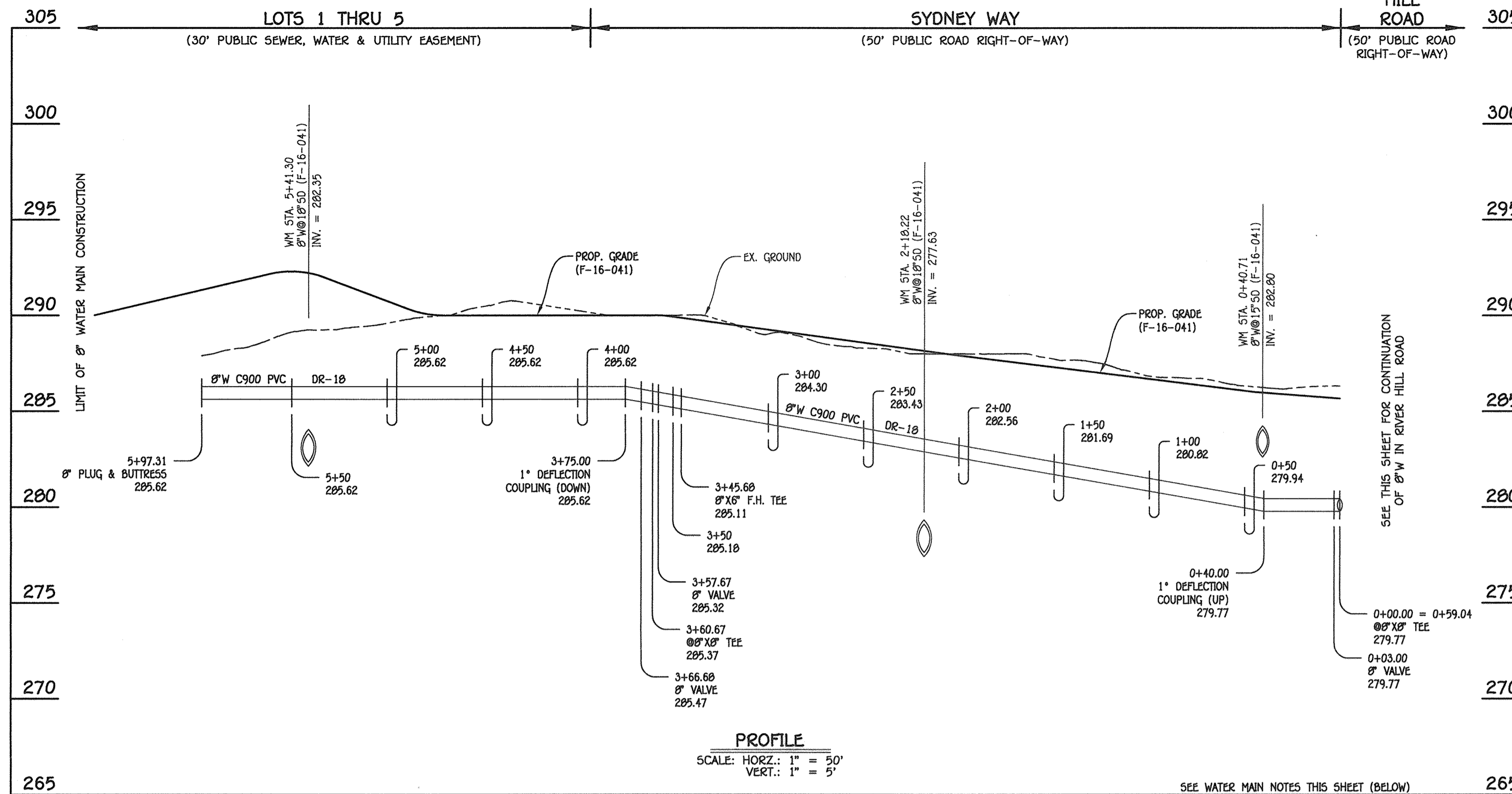
SCALE AS SHOWN  
SHEET 3 OF 6

CONTRACT NO. 24-4885-D  
HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND



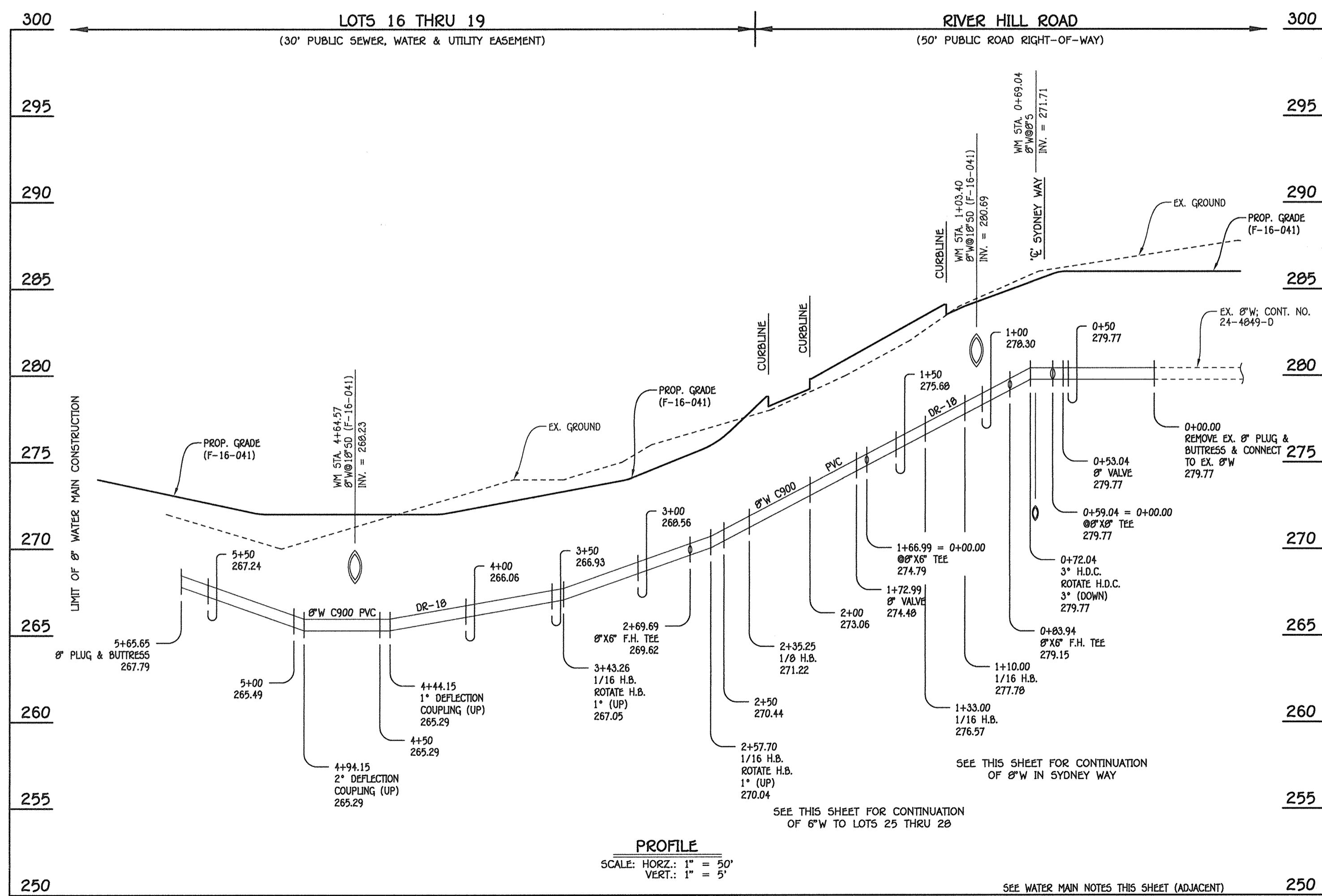
6" WATER MAIN; LOTS 25 THRU 28

W.M. STA.	APPURTENANCE	NORTHING	EASTING
6" WATER MAIN; LOTS 25 THRU 28			
0+00.00 = 1+66.99	6" X 6" TEE	527665.82	1349432.58
0+03.00	6" VALVE	527664.88	1349435.42
0+20.05	1/32 H.B.	527659.51	1349451.60
1+51.77	1/16 H.B.	527603.31	1349570.74
1+64.87	1/8 H.B.	527602.04	1349583.78
2+60.42	1/8 H.B.	527659.40	1349660.21
2+73.50	6" PLUG & BUTTRESS	527672.14	1349663.50



8" WATER MAIN; SYDNEY WAY & LOTS 1 THRU 5

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN; SYDNEY WAY & LOTS 1 THRU 5			
0+00.00 = 0+59.04	8" X 8" TEE	527763.51	1349475.45
0+03.00	8" VALVE	527764.62	1349472.66
3+45.68	8" X 8" F.H. TEE	527891.39	1349154.30
3+57.68	8" VALVE	527895.83	1349143.15
3+60.68	8" X 8" TEE	527896.94	1349140.36
3+66.68	8" VALVE	527902.52	1349142.58
5+97.31	8" PLUG & BUTTRESS	528116.79	1349227.91



8" WATER MAIN; RIVER HILL ROAD

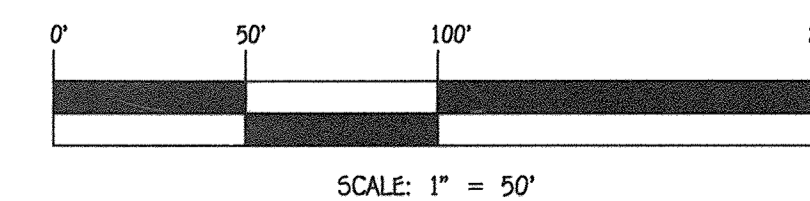
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN; RIVER HILL ROAD			
0+00.00	EX. 8" PLUG & BUTTRESS	527818.36	1349497.29
0+53.04	8" VALVE	527769.08	1349477.67
0+59.04 = 0+00.00	8" X 8" TEE	527763.51	1349475.45
0+72.04	3" H.D.C.	527751.43	1349470.64
0+83.94	8" X 8" F.H. TEE	527740.14	1349466.89
1+10.00	1/16 H.B.	527715.40	1349458.69
1+33.00	1/16 H.B.	527697.92	1349443.74
1+66.99 = 0+00.00	8" X 8" TEE	527665.82	1349432.58
1+72.99	8" VALVE	527660.15	1349430.61
2+35.25	1/8 H.B.	527601.35	1349410.15
2+57.70	1/16 H.B.	527592.28	1349389.61
2+69.69	8" X 8" F.H. TEE	527592.67	1349377.63
3+43.26	1/16 H.B.	527595.06	1349304.10
5+65.65	8" PLUG & BUTTRESS	527677.33	1349097.48

AS-BUILT

By [Signature] Date 11/6/19

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON DECEMBER 20, 2016.

- WATER MAIN NOTES:
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
  2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
  4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



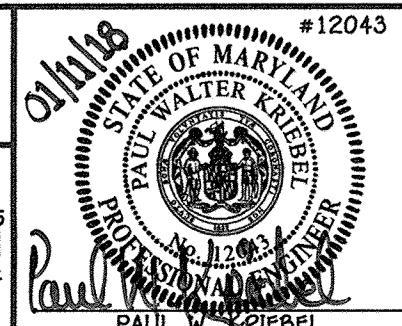
CONTRACT NO. 24-4885-D  
HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE 5/7/18/18

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE OFFICE PARK - 12722 BALDORNE NATIONAL PkE.  
ELLIOTT CITY, MARYLAND 21042  
(410) 461-2995

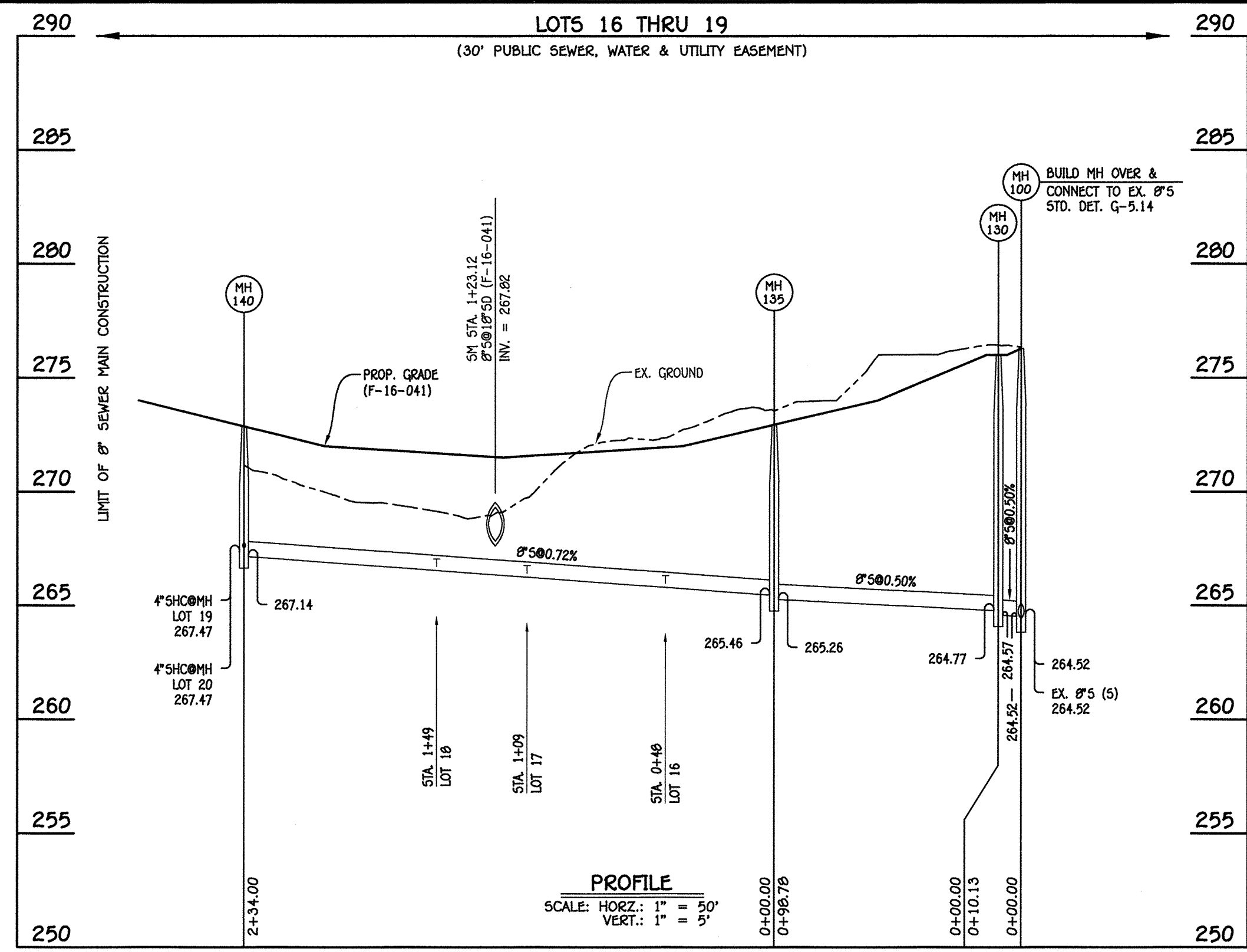


DESIGNED BY: B.C.R.  
DRAWN BY: B.C.R.  
CHECKED BY: P.W.K.  
DATE: JANUARY, 2018  
FCC BY NO. REVISION

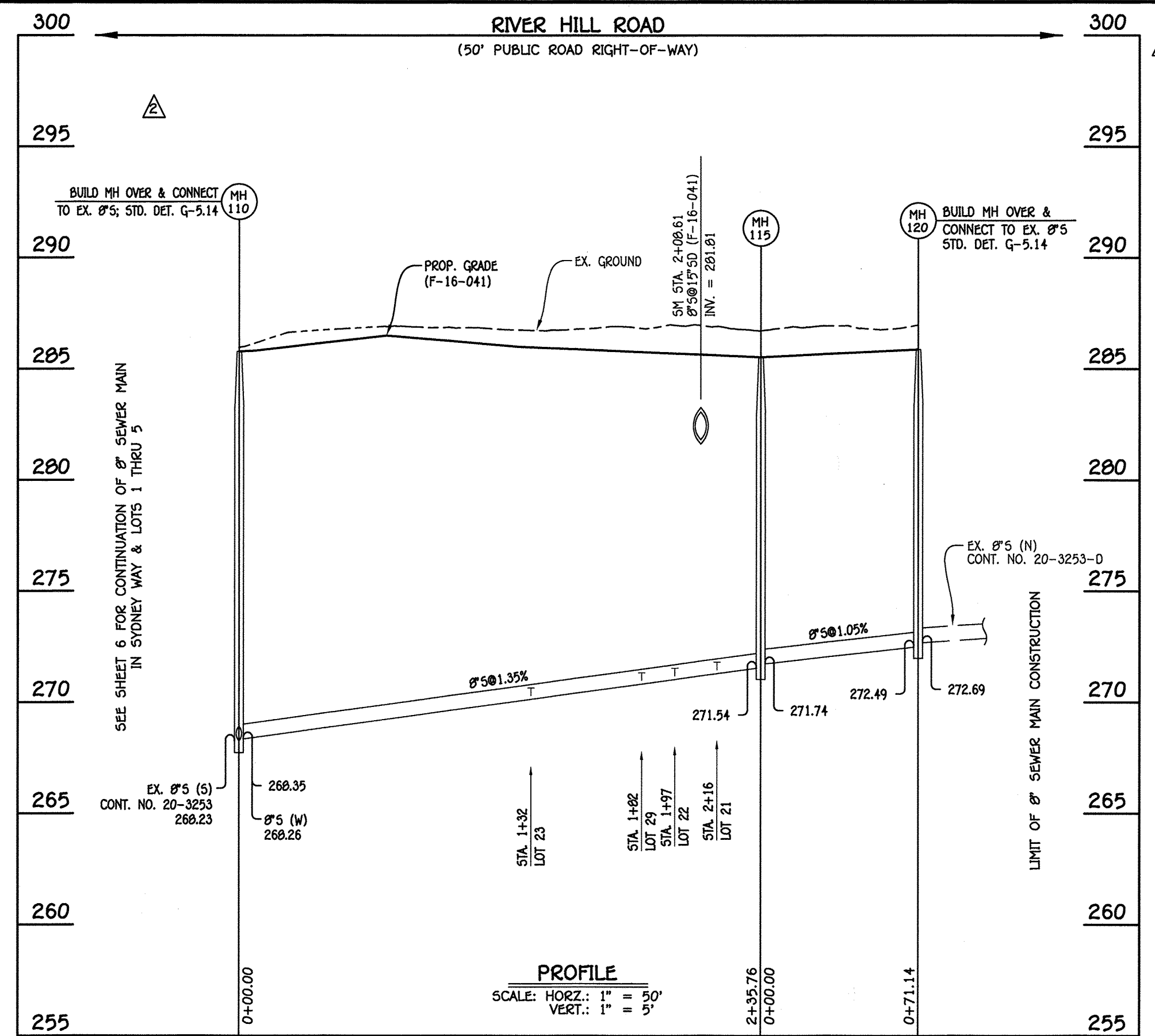
WATER MAIN EXTENSIONS  
PROFILES, CHARTS & NOTES  
600' SCALE MAP NO. 50 BLOCK NO. 1  
F.C.C. WORK ORDER NO. 12036-3002  
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 24-4885-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 4 OF 6

130131.12036-3002-AshleyWater & Sewer Contract No. 24-4885-Profile#1 - Nov. 2017 1:20:36:3002 Water and Sewer Contract Planning 1/11/2018 10:50:42 AM



8" SEWER MAIN; LOTS 16 THRU 19



8" SEWER MAIN; RIVER HILL ROAD

NO.	NORTHING	EASTING	RIM ELEVATION
100	527577.93	1349410.07	276.20
130	527501.92	1349400.76	276.00
135	527505.12	1349302.03	272.95
140	527671.69	1349004.63	272.07

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

NO.	NORTHING	EASTING	RIM ELEVATION
110	527750.05	1349402.21	285.72
115	527969.91	1349267.27	285.53
120	528033.98	1349990.20	285.00

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 135 TO MH 140						
0+48 RT.	16	265.90	266.30	270.60	273.05	284.20
1+09 RT.	17	266.41	266.01	271.11	273.05	284.20
1+49 RT.	18	266.70	267.10	271.40	273.05	284.20
0+24 RT.	19	267.47	267.07	272.17	273.05	284.20
0+24 RT.	20	267.47	269.27	274.77	N/A	286.97

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 105 TO MH 110						
0+35 RT.	24	267.55	268.07	273.77	N/A	282.42
MH 110 TO MH 115						
1+32 RT.	23	270.30	270.66	275.16	279.44	289.92
1+82 LT.	29	270.90	271.66	277.36	N/A	289.23
1+97 RT.	22	271.10	271.50	276.00	270.66	289.00
2+16 RT.	21	271.44	271.06	280.96	N/A	283.31

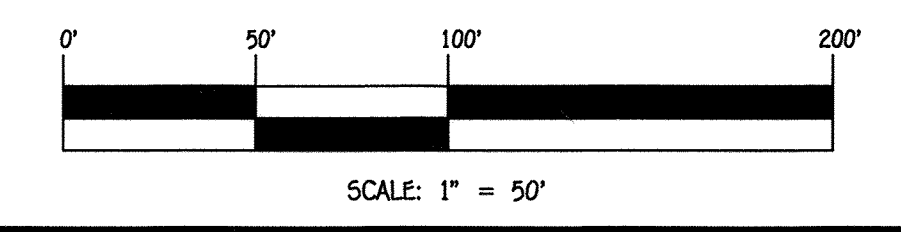
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		SMH 150 13.3 Ft.	I-13 66.0 Ft.
2		SMH 150 19.3 Ft.	I-13 47.7 Ft.
3		SMH 150 76.2 Ft.	I-13 41.0 Ft.
4		SMH 145 88.3 Ft.	FIRE HYDRANT VALVE 84" F.F.
5		SMH 145 57.3 Ft.	F.H.V. 57.3 Ft.
6		I-G 21.0 Ft.	I-5 40.0 Ft.
7		I-G 74.0 Ft.	I-5 80.5 Ft.
8		WHC Lot 9 11.3 Ft.	WHC Lot 13 54.4 Ft.
9		WHC Lot 8 56.5 Ft.	WHC Lot 2 52.3 Ft.
10		F.H. 52.0 Ft.	F.H.V. 36.4 Ft.
11		WHC Lot 12 53.1 Ft.	F.H. 52.7 Ft.
12		WHC Lot 9 55.7 Ft.	WHC Lot 12 9.9 Ft.
13		WHC Lot 8 52.8 Ft.	WHC Lot 13 12.0 Ft.
14		I-5 70.4 Ft.	I-G 78.2 Ft.
15		I-5 75.0 Ft.	I-G 37.5 Ft.
16		I-7 85.2 Ft.	SMH 135 53.7 Ft.
17		I-7 43.4 Ft.	WHC Lot 17 11.6 Ft.
18		I-7 40.5 Ft.	WHC Lot 18 11.4 Ft.
19		SMH 140 21.3 Ft.	WHC Lot 19 13.9 Ft.
20		SMH 140 92.2 Ft.	SHC Lot 19 88.3 Ft.
21		M-2 30.2 Ft.	I-1 21.5 Ft.
22		M-2 56.0 Ft.	WHC Lot 21 35.2 Ft.
23		I-1 78.0 Ft.	I-G 64.4 Ft.
24		SMH 110 75.9 Ft.	SMH 105 49.1 Ft.
25		WHC Lot 20 17.5 Ft.	SMH 160 27.5 Ft.
26		SMH 160 11.6 Ft.	WHC Lot 25 29.0 Ft.
27		SMH 155 27.0 Ft.	WHC Lot 27 14.6 Ft.
28		SMH 155 16.3 Ft.	WHC Lot 28 23.0 Ft.
29		I-2 31.6 Ft.	SMH 115 56.4 Ft.

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		SMH 150 22.2 Ft.	I-13 74.0 Ft.
2		SMH 150 10.9 Ft.	I-13 54.0 Ft.
3		SMH 150 67.0 Ft.	I-13 33.0 Ft.
4		SMH 145 98.9 Ft.	F.H.V. 93.7 Ft.
5		SMH 145 45.6 Ft.	F.H.V. 48.4 Ft.
6		I-G 26.2 Ft.	I-5 42.0 Ft.
7		I-G 84.8 Ft.	I-5 90.3 Ft.
8		SHC Lot 8 11.3 Ft.	WHC Lot 13 52.3 Ft.
9		WHC Lot 8 62.3 Ft.	SHC Lot 8 56.6 Ft.
10		FIRE HYDRANT 47.6 Ft.	F.H.V. 29.2 Ft.
11		WHC Lot 12 63.0 Ft.	F.H. 42.8 Ft.
12		WHC Lot 9 52.3 Ft.	WHC Lot 11 63.2 Ft.
13		WHC Lot 8 52.9 Ft.	SHC Lot 8 54.3 Ft.
14		I-5 79.0 Ft.	I-G 85.8 Ft.
15		I-G 38.9 Ft.	I-5 20.6 Ft.
16		I-7 94.4 Ft.	SMH 135 43.7 Ft.
17		I-7 46.4 Ft.	WHC Lot 18 40.3 Ft.
18		I-7 42.5 Ft.	SHC Lot 18 13.3 Ft.
19		SMH 140 26.2 Ft.	SHC Lot 19 16.0 Ft.
20		F.H. 31.4 Ft.	SMH 145 31.1 Ft.
21		MH 2 21.2 Ft.	I-1 23.0 Ft.
22		I-2 44.0 Ft.	I-1 24.4 Ft.
23		I-11 61.8 Ft.	I-2 93.6 Ft.
24		SMH 110 74.6 Ft.	F.H. 80.3 Ft.
25		SMH 160 23.0 Ft.	WHC Lot 26 22.0 Ft.
26		WHC Lot 25 22.0 Ft.	SMH 160 12.2 Ft.
27		SMH 155 54.0 Ft.	SMH 160 56.3 Ft.
28		SMH 155 14.0 Ft.	WHC Lot 27 44.0 Ft.
29		SMH 155 25.9 Ft.	WHC Lot 21 51.3 Ft.

AS-BUILT

Date 11/6/18

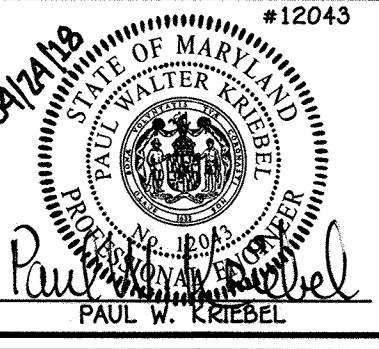
NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 5 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 20, 2018.



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE IS 7/16/18.

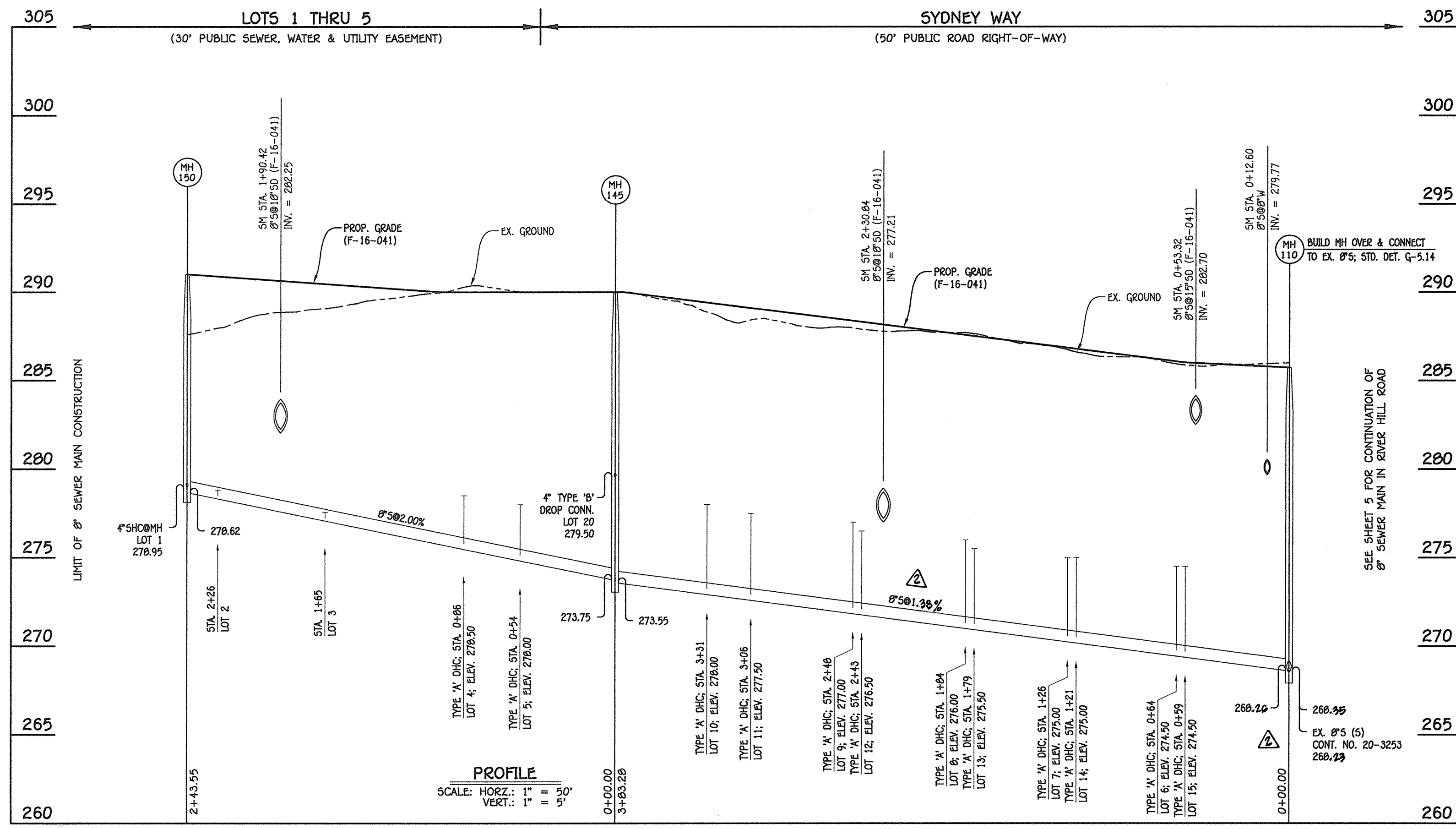


DESIGNED BY: B.C.R.  
DRAWN BY: B.C.R.  
CHECKED BY: P.W.K.  
DATE: APRIL, 2018

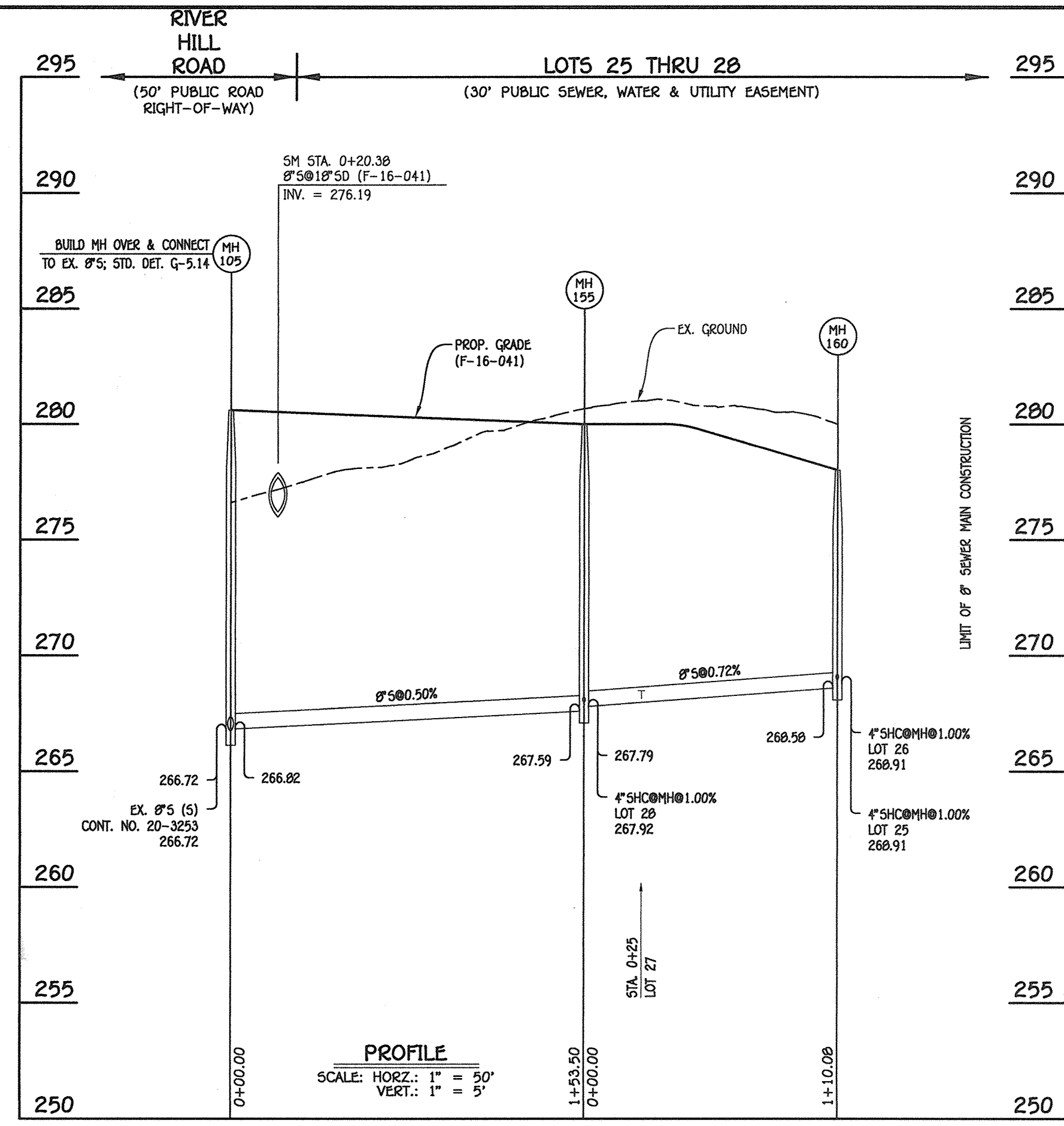
SEWER MAIN EXTENSIONS PROFILES, CHARTS & "AS-BUILT" LOCATION TABLES

HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 24-4805-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

I:\2021\2036.dwg\2036-3002\_ASHBY\Water & Sewer Contract Plans.dwg, 4/24/2018 2:40:23 PM



8" SEWER MAIN; SYDNEY WAY & LOTS 1 THRU 5



8" SEWER MAIN; LOTS 25 THRU 28

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
110	527749.55	1349403.45	295.72
145	527891.35	1349127.37	290.00
150	528117.63	1349217.47	291.00

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
105	527652.92	1349442.13	290.60
155	527587.43	1349580.96	280.00
160	527653.50	1349669.01	278.00

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

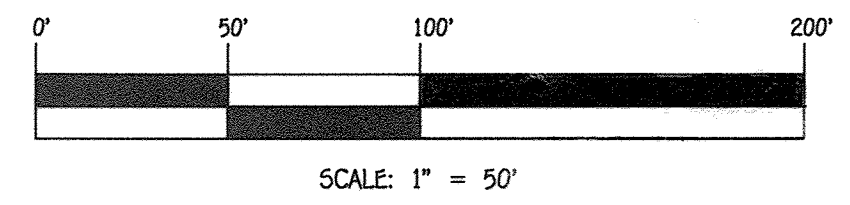
SEWER HOUSE CONNECTION CHART						
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 110 TO MH 145						
0+59 LT.	15 (DHC)	274.50	274.90	279.30	280.70	291.26
0+64 RT.	6 (DHC)	274.50	275.14	279.54	280.46	290.94
1+21 LT.	14 (DHC)	275.00	275.40	279.80	280.97	291.45
1+26 RT.	7 (DHC)	275.00	275.64	280.04	281.25	291.73
1+79 LT.	13 (DHC)	275.50	275.90	280.30	281.10	291.58
1+84 RT.	8 (DHC)	276.00	276.64	281.04	281.97	292.45
2+43 LT.	12 (DHC)	276.50	276.90	281.30	282.40	292.88
2+48 RT.	9 (DHC)	277.00	277.64	282.04	283.19	293.67
3+06 LT.	11 (DHC)	277.50	277.90	282.30	283.12	293.60
3+31 RT.	10 (DHC)	278.00	278.64	283.04	283.94	294.42
⊙MH 145 LT.	20 (DROP CONN.)	279.50	280.18	286.08	N/A	286.97
MH 145 TO MH 150						
0+54 LT.	5 (DHC)	278.00	278.20	283.00	283.93	294.41
0+86 LT.	4 (DHC)	278.50	278.70	283.50	284.88	295.36
1+65 LT.	3	277.22	277.42	282.22	284.06	293.54
2+26 LT.	2	278.44	278.64	283.44	284.33	294.81
⊙MH 150 LT.	1	278.95	279.19	283.49	284.33	294.81

SEWER HOUSE CONNECTION CHART						
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 105 TO MH 155						
⊙MH 155 RT.	28 (⊙1.00%)	267.92	268.06	271.81	272.86	283.34
MH 155 TO MH 160						
0+25 RT.	27 (⊙1.00%)	268.14	268.24	271.89	272.44	282.92
⊙MH 160 RT.	26 (⊙1.00%)	268.91	269.01	271.81	272.04	282.52
⊙MH 160 CEN.	25 (⊙1.00%)	268.91	269.18	272.03	272.04	282.52

**AS-BUILT**

*[Signature]* Date 11/6/18

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 6 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON DECEMBER 20, 2016.

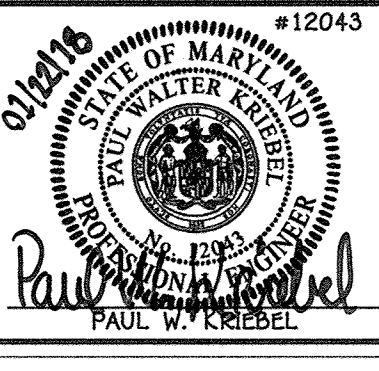


CONTRACT NO. 24-4805-D  
HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, BUREAU OF UTILITIES  
DATE: 2-2-18

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 2-20-18

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. 12043 EXPIRATION DATE 5/7/16/18.  
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELIJAH CITY, MARYLAND 21042  
(410) 461-2895



DESIGNED BY: B.C.R.  
DRAWN BY: B.C.R.  
CHECKED BY: P.W.K.  
DATE: JANUARY, 2018  
REVISIONS:  
1. REVISE SLOPE MH 110 TO MH 145 4/9/18  
2. REVISE SEWER MAIN PROFILES & CHARTS FOR SYDNEY WAY AND LOTS 25 THRU 28 1/11/18

SEWER MAIN EXTENSIONS  
PROFILES & CHARTS  
600' SCALE MAP NO. 50 BLOCK NO. 1  
F.C.C. WORK ORDER NO. 12036-3002  
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

HONEYSUCKLE RIDGE  
LOTS 1 THRU 29 AND  
OPEN SPACE LOTS 30 THRU 34  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 24-4805-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 6 OF 6

I:\2012\12036-3002\12036-3002\_ASHBY\Water & Sewer Contract\Planing, 1/22/2018 11:35:44 AM