

**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.
- AERIAL PHOTOGRAMMETRIC MAPPING PROVIDED BY THE CLIENT, DATED MARCH 11, 1991, AND BY FIELD RUN SURVEYS BY ROBERT H. VOGEL ENGINEERING, INC., AND WERE PERFORMED ON 07/02/09, 04/06/12, 08/17/12, AND 12/30/14.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM AND 183°91' AS FREQUENTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 508A AND 508B. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:  
GEODETIC SURVEY CONTROL 470D (N 530494.49/E 1350872.35)  
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT  
GEODETIC SURVEY CONTROL 470E (N 529044.94/E 1350855.03)  
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT.
- 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 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 THESE PLANS:  
AT&T (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 ANY 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.

**PART II - WATER**

- ALL WATER MAINS SHALL BE C900 PVC-DR-14 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 BUTRESSED 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 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 MATERIALS 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 COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1-1/2 DEGREE AT EACH 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 CERTAINTED 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 (IPEX) 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 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 STOPS SHALL BE MANUFACTURE 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 EBAA INC. OR APPROVED EQUAL.
- SPRINKLER SYSTEM FOR SINGLE RESIDENTIAL DWELLING UNITS SHALL HAVE WATER HOUSE CONNECTIONS AND WATER METERS THAT ARE SIZED IN ACCORDANCE WITH THE DESIGN OF THE SPRINKLER SYSTEMS. SPRINKLER SYSTEMS FOR SINGLE RESIDENTIAL DWELLINGS SHALL HAVE A MINIMUM OF 1.5" SERVICE CONNECTION WITH A 1" OUTSIDE METER SETTING.

**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.F. 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.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH FINAL ROAD CONSTRUCTION F-19-019.

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John R. Robertson* 8/28/19  
SOIL CONSERVATION DISTRICT DATE

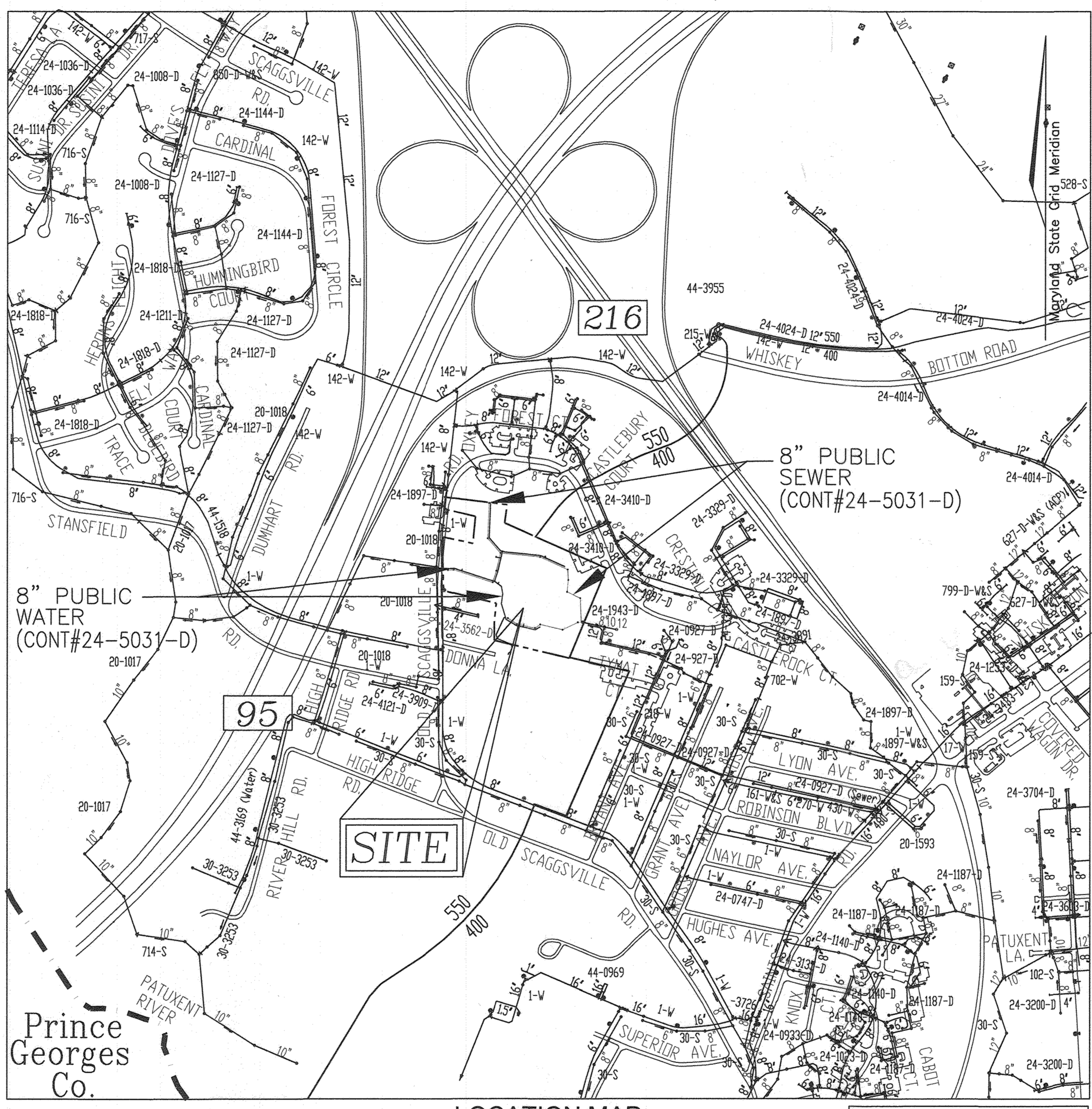
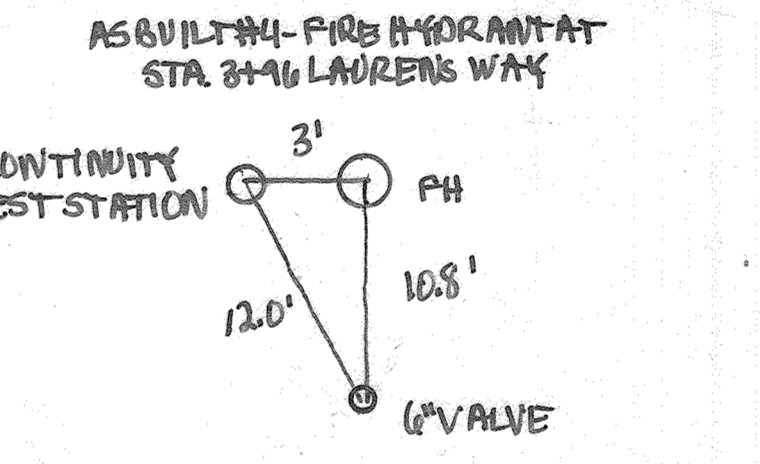
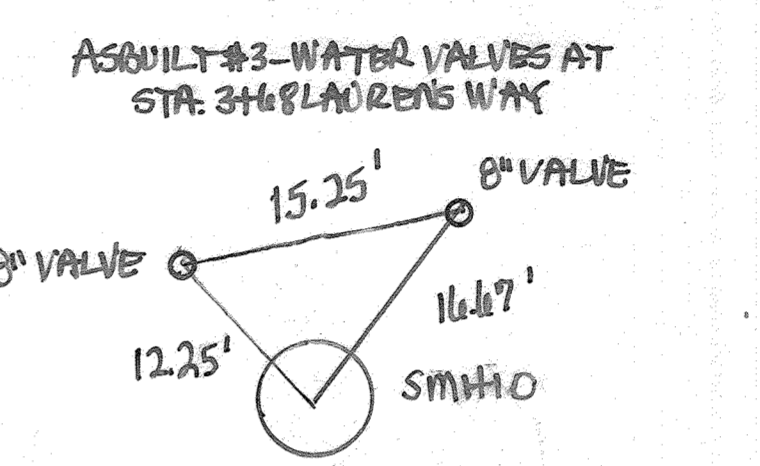
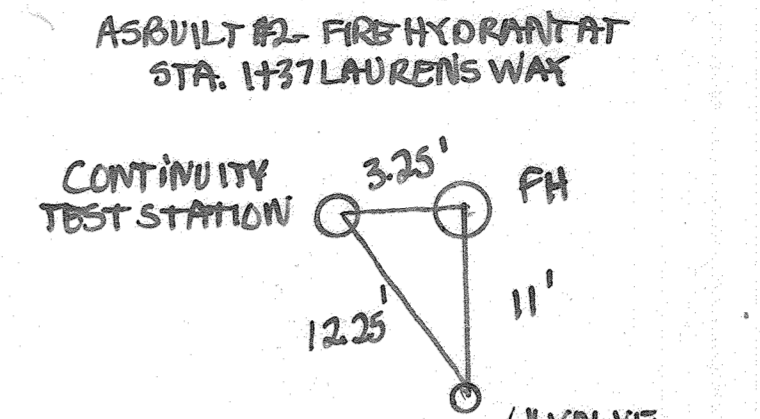
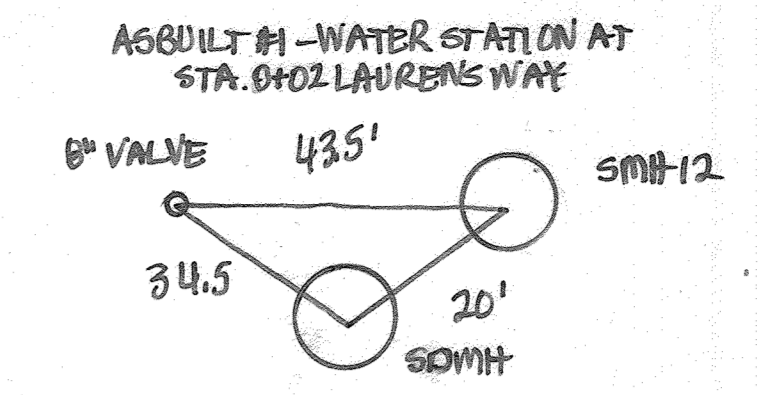
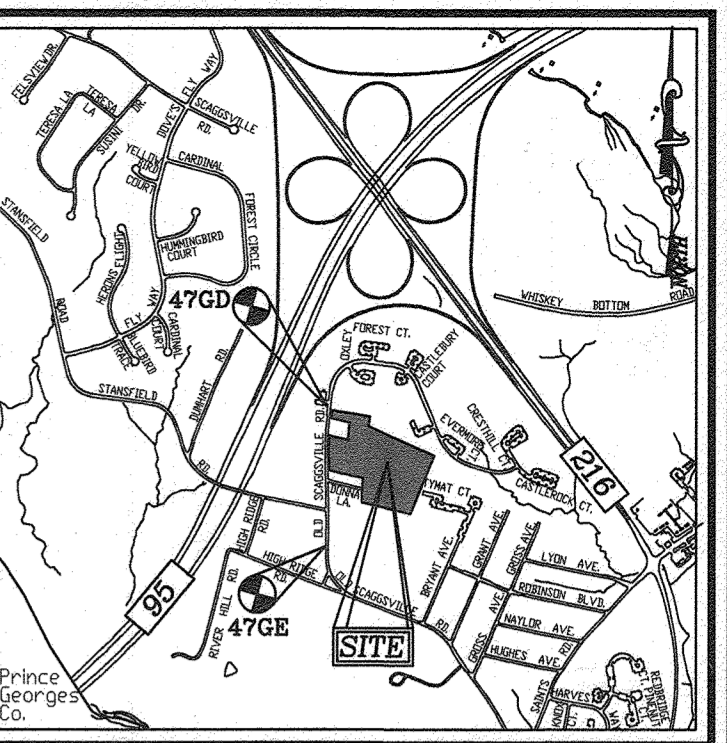
DMV2-18-006

THIS PROJECT IS SUBJECT TO A DESIGN MANUAL WAIVER DMV2-18-006, ON MARCH 1, 2016, THE CHIEF OF THE UTILITY DESIGN DIVISION APPROVED THE LIMITED USE OF TWIN SEWER HOUSE CONNECTIONS AND USE OF TRENCHLESS TECHNOLOGIES UNDER A PERENNIAL STREAM.

# FINAL WATER AND SEWER CONSTRUCTION PLAN MAGNOLIA MANOR

LOTS 1 - 61 AND OPEN SPACE LOTS 62 - 69  
AND NON BUILDABLE PARCEL 'A'  
A SUBDIVISION OF TAX MAP 47 - PARCEL 465 AND  
A RESUBDIVISION OF TAX MAP 47 - PARCEL 163  
GIDDINGS PROPERTY - SECTION 1 AREA 1 - LOTS 1-4 (PLAT 9114)  
CONT#24-5031-D  
HOWARD COUNTY, MD

**BENCHMARKS**  
HOWARD COUNTY BENCHMARK - 47GE  
N 529044.94 E 1350855.03 ELEV.: 337.61  
HOWARD COUNTY BENCHMARK - 47GD  
N 530494.49 E 1350872.35 ELEV.: 312.28



LOCATION MAP  
SCALE: 1"=600'

WATER ZONE: 550  
TEST GRADIENT: 827  
TEST PRESSURE: 239

TYPE OF BUILDING :	RESIDENTIAL
NO. OF UNITS:	15 SINGLE FAMILY DETACHED 44 TOWNHOUSE UNITS
NO. OF SINGLE WATER HOUSE CONNECTIONS :	36
NO. OF TWIN WATER HOUSE CONNECTIONS :	12
NO. OF SINGLE SEWER HOUSE CONNECTIONS :	62
NO. OF TWIN SEWER HOUSE CONNECTIONS :	0
DRAINAGE AREA:	LITTLE PATUXENT RIVER
TREATMENT PLANT :	LITTLE PATUXENT WRP

**LEGEND**

- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED WATER MAIN
- FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED TEE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- EXISTING SEWER
- SEWER MANHOLE
- PRIVATE WATER HOUSE CONNECTION
- PRIVATE SEWER HOUSE CONNECTION
- PROPOSED SIGN
- PROPOSED LIGHT

**QUANTITIES**

NAME OF UTILITY CONTRACTOR : H.T.I. Contractors		SURVEY AND DRAFTING DIVISION AS-BUILT DATE : 11-3-2021	
ITEMS	QUANTITIES ESTIMATED	QUANTITIES AS-BUILT	MANUFACTURER/SUPPLIER
8" WATER (PVC C-900) (DR-14)	2,279 LF	2,290 LF	C-900 DR-14 NORTH AMERICAN
6" WATER DIP (FH)	84 LF	84 LF	STAR PIPE
8" X 8" TAPPING SLEEVE & V.	1 EA	1 EA	JIM MUELLER
8" X 8" TEE	3 EA	3 EA	STAR PIPE
8" VALVE	5 EA	5 EA	STAR PIPE
6" VALVE	6 EA	6 EA	STAR PIPE
FIRE HYDRANT & TEST STATION	9 EA	9 EA	STAR PIPE
8" - 1/16 HORIZ. BEND	8 EA	8 EA	STAR PIPE
8" - 1/32 HORIZ. BEND	3 EA	3 EA	STAR PIPE
8" - 5" HORIZ. SWEEP	1 EA	1 EA	STAR PIPE
8" - 1/32 VERT. BEND	9 EA	9 EA	STAR PIPE
8" - 1/16 VERT. BEND	2 EA	2 EA	STAR PIPE
8" - VERT. COUPLING	17 EA	17 EA	NORTH AMERICAN SPECIALTY
8" - 5" VERT. SWEEP	7 EA	7 EA	NORTH AMERICAN SPECIALTY
1 1/2" WHC	1,332 LF	1,332 LF	CAMBRIDGE LEE
8" CAP + BUTRESS	3 EA	3 EA	STAR PIPE
8" - 1/16 HORIZ. BEND	1 EA	1 EA	STAR PIPE
STANDARD MANHOLE	18 EA	18 EA	BACK-RIVER PRE-CAST
8" PVC SEWER - SDR 35	2,300 LF	2,300 LF	JM EAGLE
4" SHC	1,475 LF	1,475 LF	STAR PIPE
TYPE 'B' DEEP MH	1	1	BACK-RIVER
STEELMAN CROSSING	1	1	STAR PIPE

\*FROM HOWARD COUNTY DESIGN MANUAL VOLUME II-SECTION 4.3, TABLE 4.30.

**AS BUILTS**  
DATE: 11/20/22

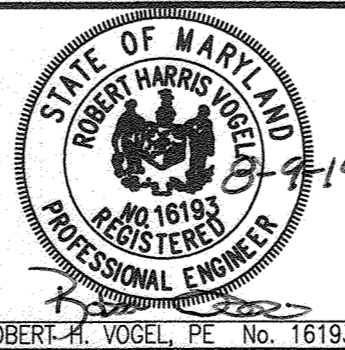
**OWNER**  
MARANATHA MAGNOLIA MANOR, LLC  
MICHAEL PFAU MANAGING MEMBER  
LIVE FEARLESS IN CHRIST, LLC  
MICHAEL PFAU MANAGING MEMBER TRINITY HOMES MARY LAND, LLC  
3675 PARK AVE., SUITE 301  
ELLCOTT CITY, MD 21043  
(410) 480-0023

**DEVELOPER**  
3675 PARK AVE., SUITE 301  
ELLCOTT CITY, MD 21043  
(410) 480-0023

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DATE: 9/6/19  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
DATE: 9/6/19  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
3300 N. RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043  
TEL: 410.461.7666 FAX: 410.461.8961



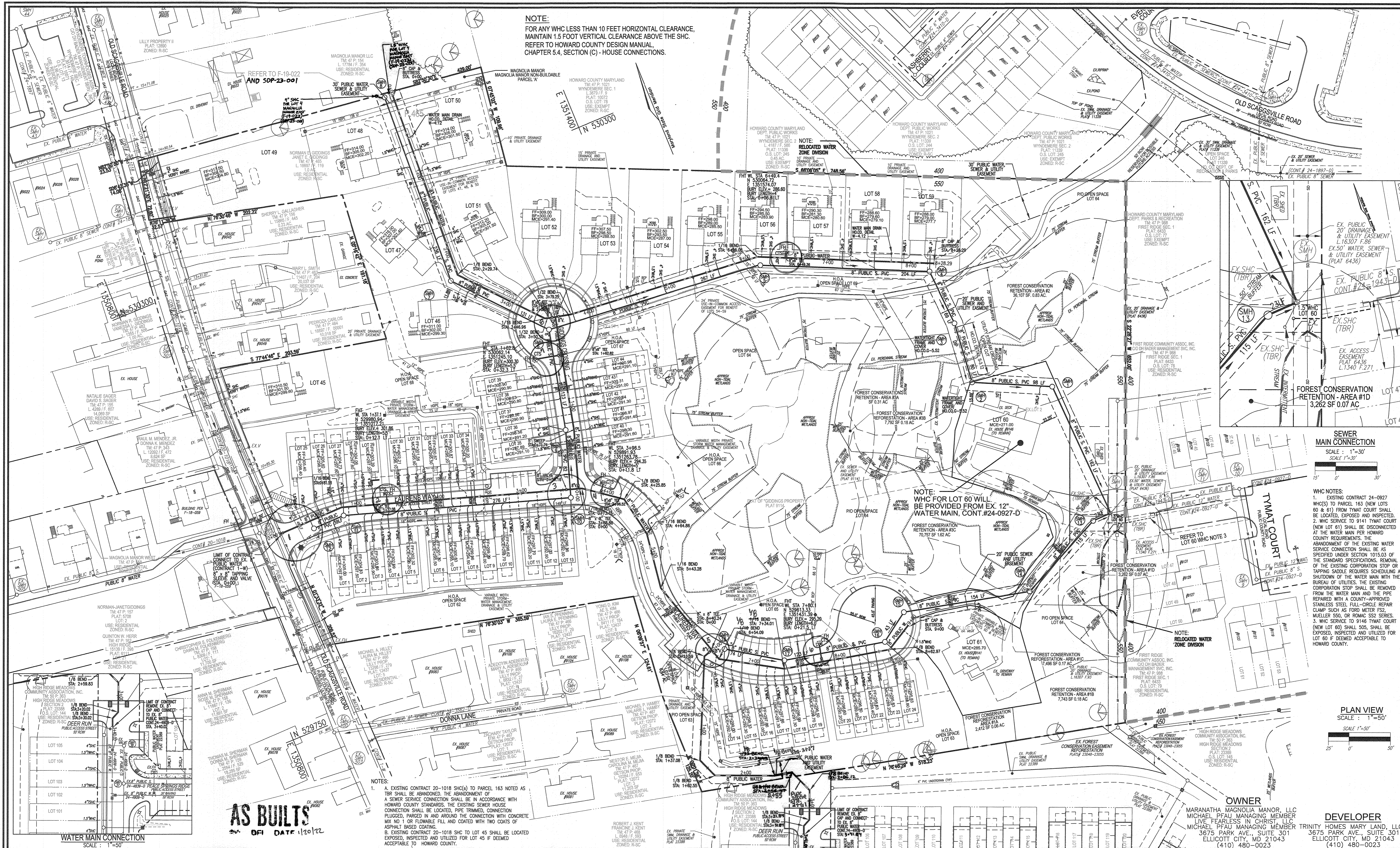
REVISION	DATE
2 REVISE TO ADD WATER AND SEWER HOUSE CONNECTION FOR LOT 4	4-17-23
1 MAGNOLIA MANOR EAST SDR-23-001/F-19-022 (FOR REFERENCE USE ONLY)	
1 ADJUST WATER MAIN AND EASEMENT TO BE RELOCATED OFF ADJACENT PARCEL AT SOUTH END OF SITE (TOWARD DEER RUN STREET)	8-26-20

**FINAL WATER AND SEWER COVER SHEET**  
CONT.# 24-5031-D

**MAGNOLIA MANOR**  
LOTS 1 - 61 AND OPEN SPACE LOTS 62 - 69  
AND NON BUILDABLE PARCEL 'A'  
A SUBDIVISION OF TAX MAP 47 - PARCEL 465  
AND A RESUBDIVISION OF  
TAX MAP 47 - PARCEL 163 - GIDDINGS PROPERTY -  
SECTION 1 AREA 1 - LOTS 1-4 (PLAT 9114)  
TAX MAP 47, GRID 19  
6TH ELECTION DISTRICT

SCALE AS SHOWN  
SHEET 1 OF 4  
ZONED: R-SC  
HOWARD COUNTY, MARYLAND

**NOTE:**  
FOR ANY WHC LESS THAN 10 FEET HORIZONTAL CLEARANCE,  
MAINTAIN 1.5 FOOT VERTICAL CLEARANCE ABOVE THE SHC.  
REFER TO HOWARD COUNTY DESIGN MANUAL,  
CHAPTER 5.4, SECTION (C) - HOUSE CONNECTIONS.



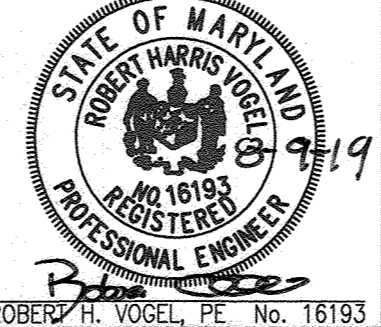
**SEWER MAIN CONNECTION**  
SCALE: 1"=30'  
SCALE: 1"=30'

**WHC NOTES:**  
1. EXISTING CONTRACT 24-0927 (WHC(S) TO PARCEL 163 (NEW LOTS 60 & 61) FROM TYMART COURT SHALL BE LOCATED, EXPOSED AND INSPECTED.  
2. WHC SERVICE TO 9141 TYMART COURT (NEW LOT 61) SHALL BE DISCONNECTED AT THE WATER MAIN PER HOWARD COUNTY REQUIREMENTS. THE ABANDONMENT OF THE EXISTING WATER SERVICE CONNECTION SHALL BE AS SPECIFIED UNDER SECTION 1015.03 OF THE STANDARD SPECIFICATIONS. REMOVAL OF THE EXISTING CORPORATION STOP OR TAPPING SADDLE REQUIRES SCHEDULING A SHUTDOWN OF THE WATER MAIN WITH THE BUREAU OF UTILITIES. THE EXISTING CORPORATION STOP SHALL BE REMOVED FROM THE WATER MAIN AND THE PIPE REPAIRED WITH A COUNTY-APPROVED STAINLESS STEEL FULL-CIRCLE REPAIR CLAMP SUCH AS FORD METER FS2, MULLER 550, OR ROMAC S50 SERIES.  
3. WHC SERVICE TO 9146 TYMART COURT (NEW LOT 60) SHALL BE EXPOSED, INSPECTED AND UTILIZED FOR LOT 60 IF DEEMED ACCEPTABLE TO HOWARD COUNTY.

**PLAN VIEW**  
SCALE: 1"=50'  
SCALE: 1"=50'

**AS BUILTS**  
DATE: 1/20/22

**NOTES:**  
A. EXISTING CONTRACT 20-1018 SHC(S) TO PARCEL 163 NOTED AS TR SHALL BE ABANDONED. THE ABANDONMENT OF A SEWER SERVICE CONNECTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS. THE EXISTING SEWER HOUSE CONNECTION SHALL BE LOCATED, PIPE TRIMMED, CONNECTION PLUGGED, PARGED IN AND AROUND THE CONNECTION WITH CONCRETE MIX NO. 1 OR FLOWABLE FILL AND COATED WITH TWO COATS OF ASPHALT BASED COATING.  
B. EXISTING CONTRACT 20-1018 SHC TO LOT 45 SHALL BE LOCATED EXPOSED, INSPECTED AND UTILIZED FOR LOT 45 IF DEEMED ACCEPTABLE TO HOWARD COUNTY.



**PROFESSIONAL CERTIFICATE**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2020

**REVISIONS:**

NO.	REVISION	DATE
2	REVISE TO ADD WATER AND SEWER HOUSE CONNECTION FOR LOT 4, 4-17-23	
1	ADJUST WATER MAIN AND EASEMENT TO BE RELOCATED OFF ADJACENT PARCEL AT SOUTH END OF SITE (TOWARD DEER RUN STREET)	8-26-20

**FINAL WATER AND SEWER PLAN VIEW**  
CONT.# 24-5031-D

**MAGNOLIA MANOR**  
LOTS 1 - 61 AND OPEN SPACE LOTS, 62 - 69 AND NON-BUILDABLE PARCEL A  
A SUBDIVISION OF TAX MAP 47 - PARCEL 465  
AND A RESUBDIVISION OF SECTION 1 AREA 1 - LOTS 1-4 (PLAT 9114)

**OWNER:**  
MARANATHA MAGNOLIA MANOR, LLC  
MICHAEL PFAU MANAGING MEMBER  
LIVE FEARLESS IN CHRIST, LLC  
MICHAEL PFAU MANAGING MEMBER TRINITY HOMES MARY LAND, LLC  
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**DEVELOPER:**  
MAGNOLIA MANOR, LLC  
MICHAEL PFAU MANAGING MEMBER  
LIVE FEARLESS IN CHRIST, LLC  
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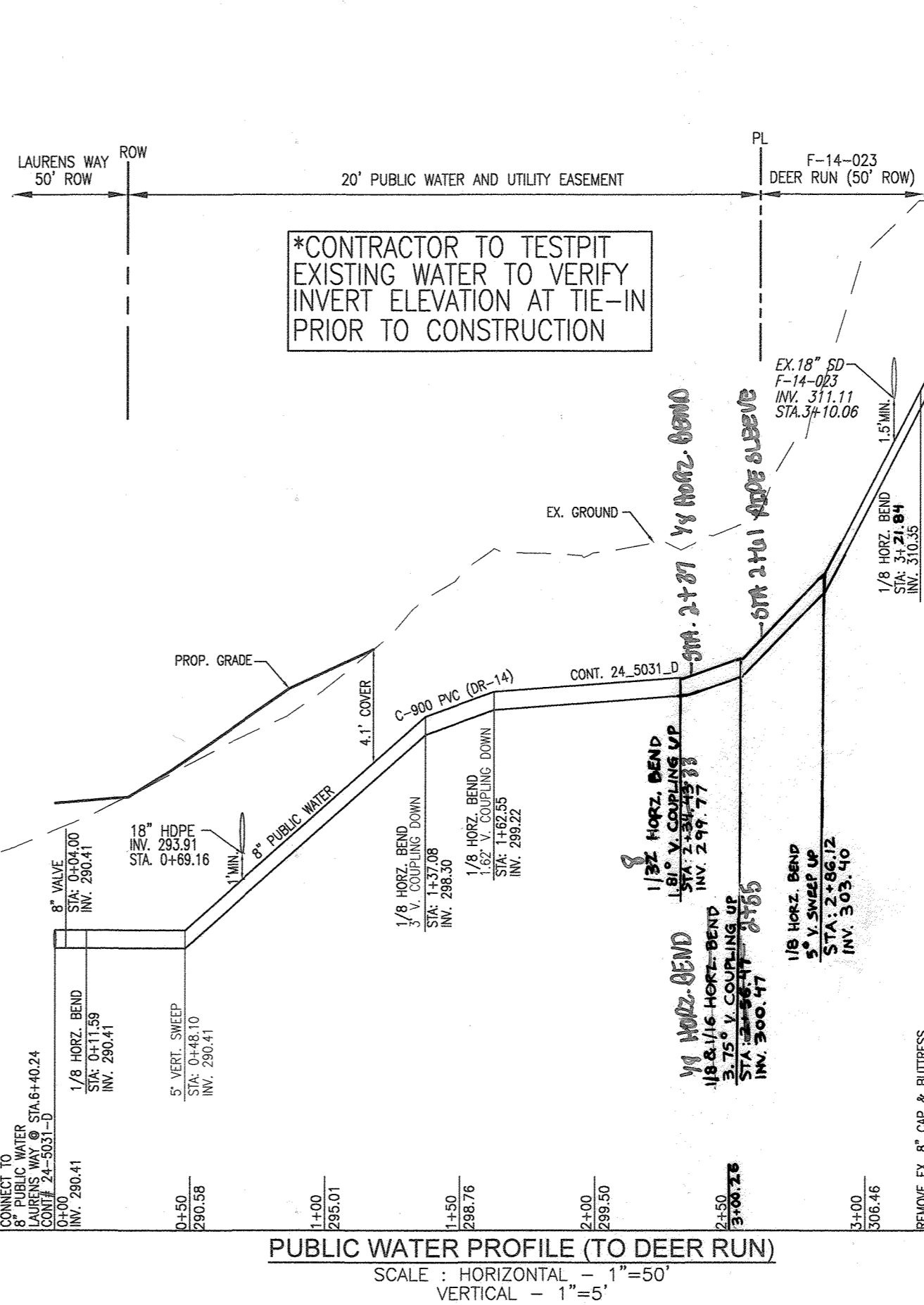
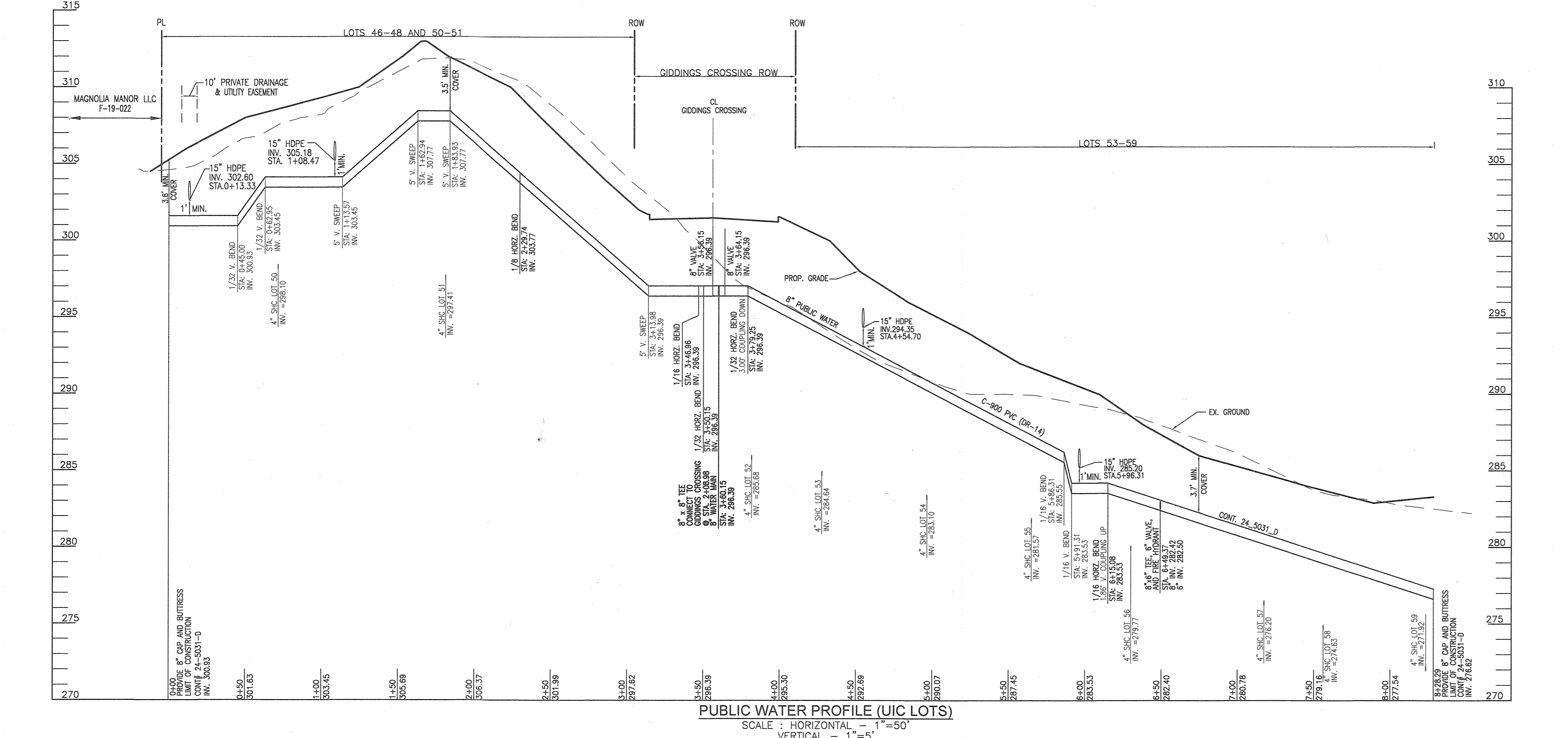
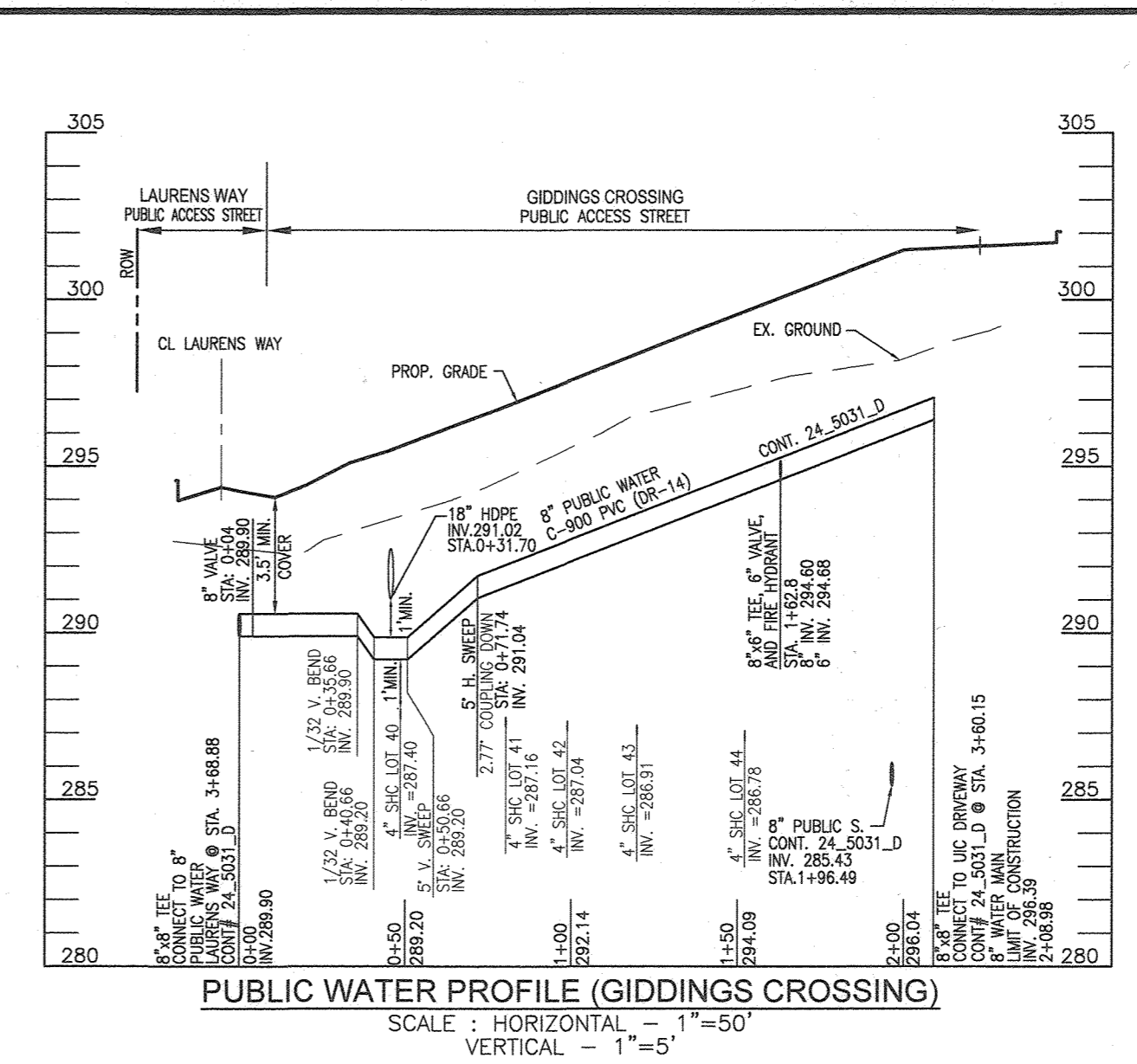
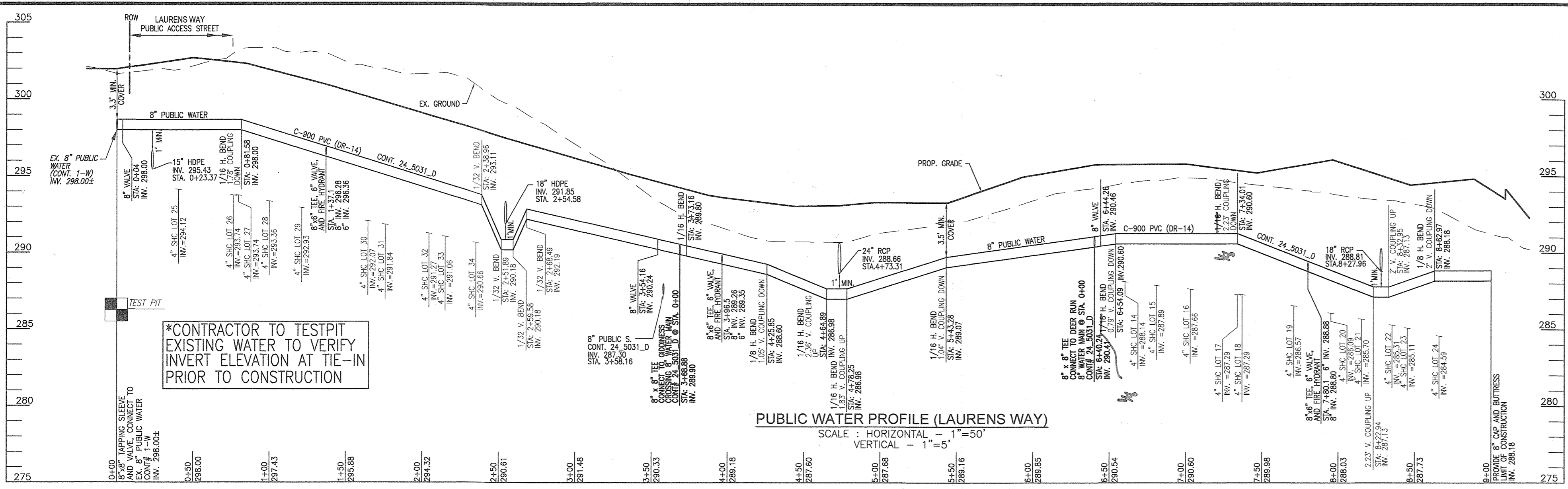
**SCALE AS SHOWN**  
**SHEET 2 OF 4**

**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

**DEPARTMENT OF PLANNING & ZONING**  
HOWARD COUNTY, MARYLAND

**CHIEF, BUREAU OF UTILITIES**  
8-14-19

**CHIEF, DEVELOPMENT ENGINEERING DIVISION**  
9.6.19



**WATER MAIN LOCATION CHART**

**WATER MAIN LAURENS WAY**

WL STA.	APPURTENANCE
0+00.00	CONNECT TO EX. 8" WATER, 8"x8" TAPPING SLEEVE
0+04.00	8" VALVE
0+81.58	1/16 H. BEND, 1.78' COUPLING DOWN
1+37.10	8"x6" FHT & 6" VALVE, & FH
2+38.96	1/32 V. BEND
2+51.89	1/32 V. BEND
2+59.58	1/32 V. BEND
2+68.49	1/32 V. BEND
3+54.16	8" VALVE
3+68.88	8"x8" TEE, CONNECT TO 8" PUBLIC WATER GIDDINGS CROSSING
3+73.16	1/16 H. BEND
3+86.52	8"x6" FHT & 6" VALVE, & FH
4+25.85	1/8 H. BEND, 1.05' V. COUPLING DOWN
4+84.89	1/16 H. BEND, 2.26' V. COUPLING UP
4+78.25	1/16 H. BEND, 1.83' V. COUPLING UP
5+43.28	1/16 H. BEND, 1.04' V. COUPLING DOWN
6+40.24	8"x8" TEE, CONNECT TO 8" PUBLIC WATER TO DEER RUN
6+44.26	8" VALVE
6+54.09	1/16 H. BEND, 0.79' V. COUPLING DOWN
7+34.01	1/16 H. BEND, 2.23' V. COUPLING DOWN
7+80.10	8"x6" FHT & 6" VALVE, & FH
8+22.94	2.23' V. COUPLING DOWN
8+32.95	2.0' V. COUPLING UP
8+62.97	1/8 H. BEND, 2' V. COUPLING DOWN
9+00.00	8" CAP AND BUTTRISS

**WATER MAIN GIDDINGS CROSSING**

WL STA.	APPURTENANCE
0+00.00	8"x8" TEE, CONNECT 8" WATER MAIN LAURENS WAY
0+04.00	8" VALVE
0+35.88	1/16 H. BEND
0+40.66	1/32 V. BEND
0+50.66	5' V. SWEEP
0+71.74	5' H. SWEEP, 2.77' COUPLING DOWN
1+62.82	8"x6" FHT & 6" VALVE, & FH
2+08.98	8" x 8" TEE, CONNECT TO 8" PUBLIC WATER UIC

**WATER MAIN U-I-C**

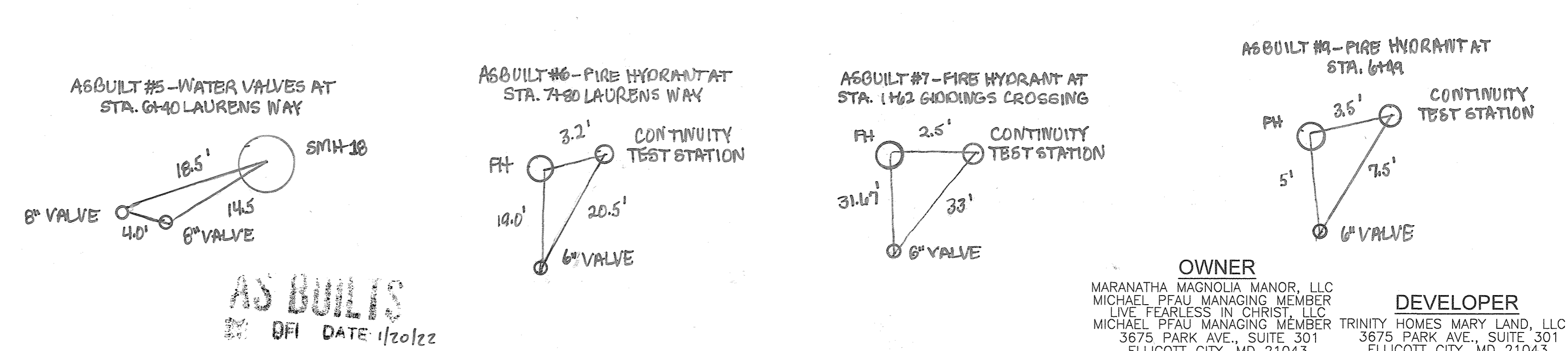
WL STA.	APPURTENANCE
0+00.00	8" CAP AND BUTTRISS
0+45.00	1/32 V. BEND
0+62.95	1/32 V. BEND
1+13.57	5' V. SWEEP
1+62.94	5' V. SWEEP
1+83.93	5' V. SWEEP
2+29.74	1/8 H. BEND
3+13.98	5' V. SWEEP
3+46.96	1/16 H. BEND
3+50.15	1/32 H. BEND
3+56.15	8" VALVE
3+60.15	8"x8" TEE, CONNECT 8" WATER MAIN GIDDINGS CROSSING
3+64.15	8" VALVE
3+79.25	1/32 H. BEND, 3.00' V. COUPLING DOWN
5+86.31	1/16 V. BEND
5+91.31	1/16 V. BEND
6+15.08	1/16 H. BEND, 1.86' V. COUPLING UP
6+49.36	8"x6" FHT & 6" VALVE, & FH
8+28.29	8" CAP AND BUTTRISS

**WATER MAIN TO DEER RUN**

WL STA.	APPURTENANCE
0+00.00	8"x8" TEE, CONNECT 8" WATER MAIN LAURENS WAY
0+04.00	8" VALVE
0+11.59	1/8 H. BEND
0+48.10	5' VERT. SWEEP
1+37.08	1/8 H. BEND, 3' V. COUPLING DOWN
1+62.55	1/8 H. BEND, 1.62' V. COUPLING DOWN
2+34.18	1/32 H. BEND, 1.81' V. COUPLING UP
2+54.18	1/8 & 1/16 H. BEND, 3.75' V. COUPLING UP
2+86.12	1/8 H. BEND, 5' V. SWEEP UP
3+21.81	1/8 H. BEND
3+31.81	1/8 H. BEND
3+36.40	1/32 V. BEND
3+41.81	CONNECT TO EX. 8" PUBLIC WATER - CONT.# 24-11919-D

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

LOTS	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2	LOTS	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2	
LOT 1	LAURENS WAY	SMH #11	2.2'	PH STA 1437 62'	LOT 21	LAURENS WAY	SMH #17	7.7'
LOT 2	LAURENS WAY	SMH #11	2.2'	PH STA 1437 62'	LOT 22	LAURENS WAY	SMH #18	6.1'
LOT 3	LAURENS WAY	SMH #11	4.0'	PH STA 1437 48'	LOT 23	LAURENS WAY	SMH #18	6.1'
LOT 4	LAURENS WAY	SMH #11	4.0'	PH STA 1437 48'	LOT 24	LAURENS WAY	SMH #18	6.1'
LOT 5	LAURENS WAY	SMH #11	7.9'	PH STA 1437 48'	LOT 25	LAURENS WAY	SMH #11	5.9'
LOT 6	LAURENS WAY	SMH #11	6.2'	PH STA 1437 70'	LOT 26	LAURENS WAY	SMH #11	2.9'
LOT 7	LAURENS WAY	SMH #11	3.8'	PH STA 1437 48'	LOT 27	LAURENS WAY	SMH #11	2.9'
LOT 8	LAURENS WAY	SMH #11	1.8'	PH STA 1437 21'	LOT 28	LAURENS WAY	SMH #11	2.9'
LOT 9	LAURENS WAY	SMH #11	1.8'	PH STA 1437 21'	LOT 29	LAURENS WAY	SMH #11	2.9'
LOT 10	LAURENS WAY	SMH #10	7.7'	PH STA 1437 70'	LOT 30	LAURENS WAY	SMH #11	2.9'
LOT 11	LAURENS WAY	SMH #10	4.0'	PH STA 1437 70'	LOT 31	LAURENS WAY	SMH #11	2.9'
LOT 12	LAURENS WAY	SMH #10	4.0'	PH STA 1437 70'	LOT 32	LAURENS WAY	SMH #11	2.9'
LOT 13	LAURENS WAY	SMH #10	2.8'	PH STA 1437 70'	LOT 33	LAURENS WAY	SMH #11	2.9'
LOT 14	LAURENS WAY	SMH #10	2.8'	PH STA 1437 70'	LOT 34	LAURENS WAY	SMH #11	2.9'
LOT 15	LAURENS WAY	SMH #10	4.1'	PH STA 1437 70'	LOT 35	GIDDINGS CROSSING	SMH #11	2.9'
LOT 16	LAURENS WAY	SMH #10	7.2'	PH STA 1437 70'	LOT 36	GIDDINGS CROSSING	SMH #11	2.9'
LOT 17	LAURENS WAY	SMH #11	7.9'	PH STA 1437 70'	LOT 37	GIDDINGS CROSSING	SMH #11	2.9'
LOT 18	LAURENS WAY	SMH #11	3.7'	PH STA 1437 70'	LOT 38	GIDDINGS CROSSING	SMH #11	2.9'
LOT 19	LAURENS WAY	SMH #11	3.0'	PH STA 1437 70'	LOT 39	GIDDINGS CROSSING	SMH #11	2.9'
LOT 20	LAURENS WAY	SMH #11	2.6'	PH STA 1437 70'	LOT 40	GIDDINGS CROSSING	SMH #11	2.9'



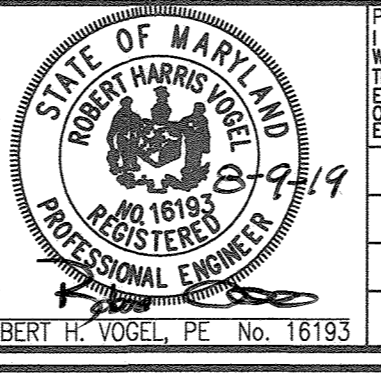
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

8-14-19

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

9-6-19

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS - SURVEYORS - PLANNERS  
3300 N. RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043  
TEL: 410.461.7666 FAX: 410.461.8961



PROFESSIONAL CERTIFICATE  
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.  
EXPIRATION DATE: 09-27-2026

DES: RVH  
DRN: KG  
CHK: RVH

DATE: AUGUST 2019 NO. \_\_\_\_\_ REVISION \_\_\_\_\_ DATE \_\_\_\_\_

ADJUST WATER MAIN AND EASEMENT TO BE RELOCATED OFF PROPERTY 8-26-20 PARCEL AT SOUTH END OF SITE (TOWARD DEER RUN STREET)

**FINAL WATER AND SEWER WATER PROFILES**  
CONT.# 24-5031-D

600' SCALE MAP NO. 47 BLOCK NO. 19

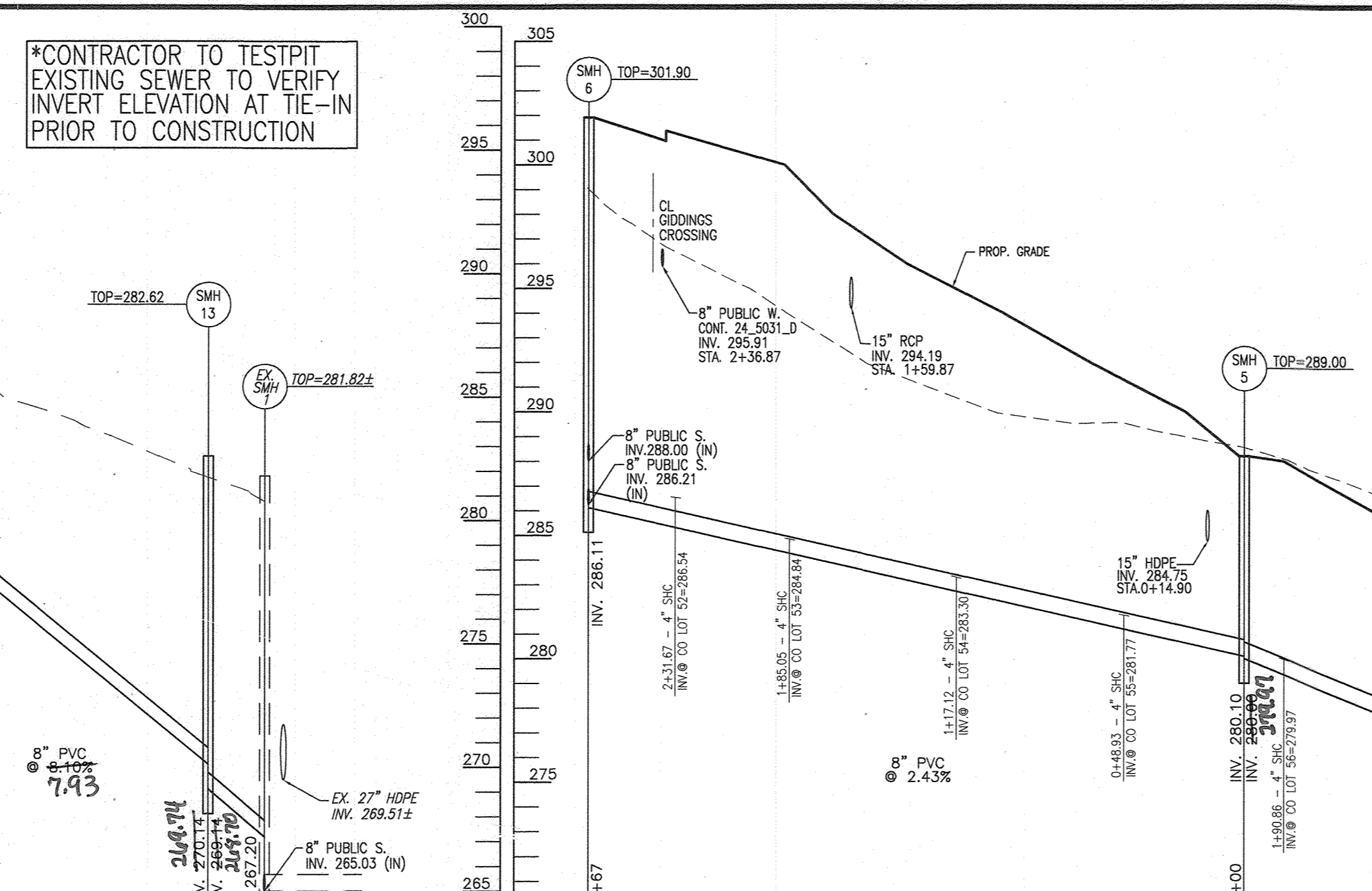
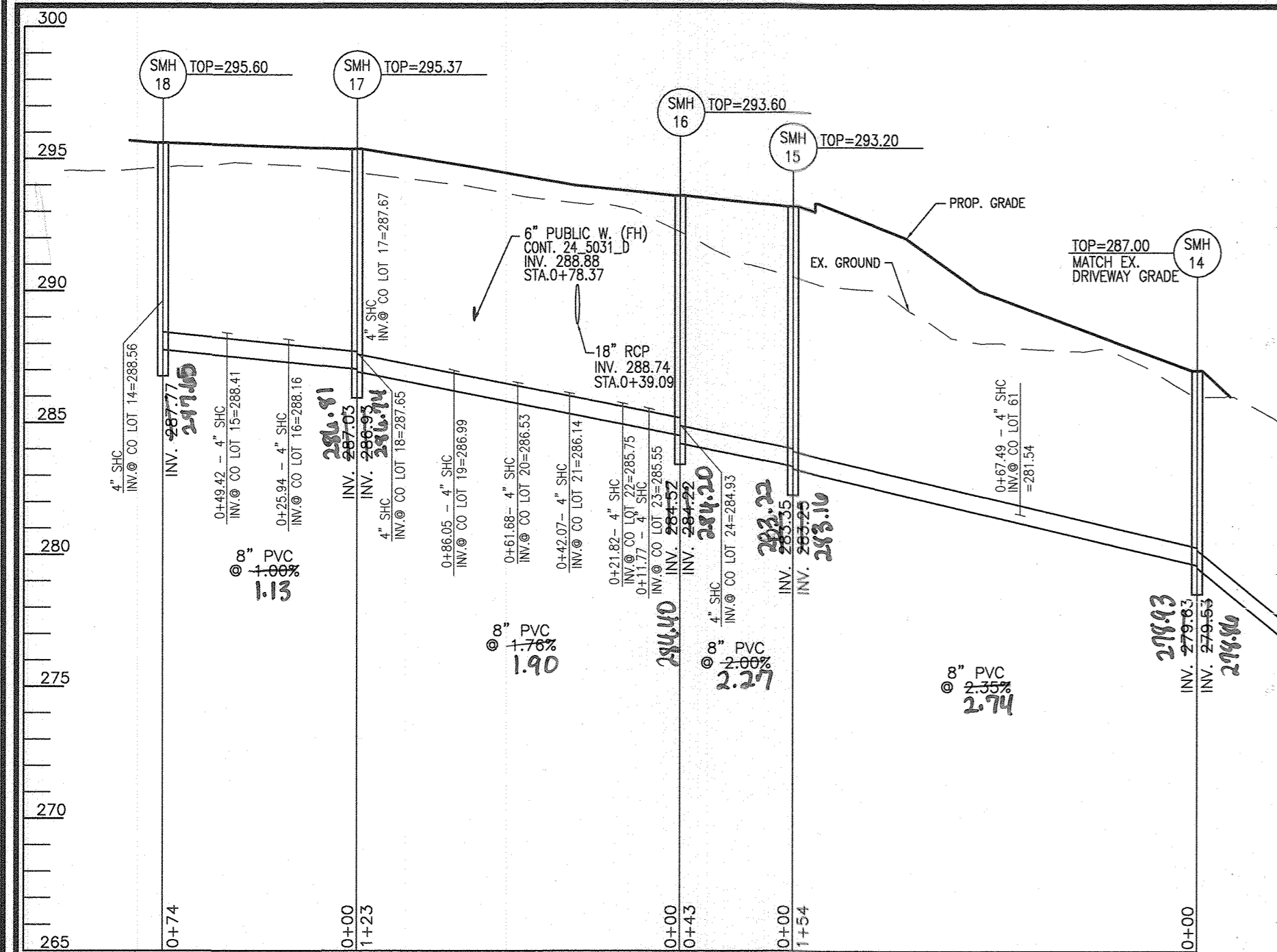
**MAGNOLIA MANOR**  
LOTS 1 - 61 AND OPEN SPACE LOTS 62 - 69 AND NON-BUILDABLE PARCEL 'A'  
A SUBDIVISION OF TAX MAP 47 - PARCEL 465 AND A RESUBDIVISION OF TAX MAP 47 - PARCEL 163 GIDDINGS PROPERTY - SECTION 1 AREA 1 - LOTS 1-4 (PLAT 9114)

TAX MAP 47, GRID 19 ZONED: R-SC  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OWNER: MARANATHA MAGNOLIA MANOR, LLC  
DEVELOPER: MICHAEL PFAU MANAGING MEMBER  
LIVE FEARLESS IN CHRISTI, LLC  
MICHAEL PFAU MANAGING MEMBER TRINITY HOMES MARY LAND, LLC  
3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023  
3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023

SCALE AS SHOWN  
SHEET 3 OF 4

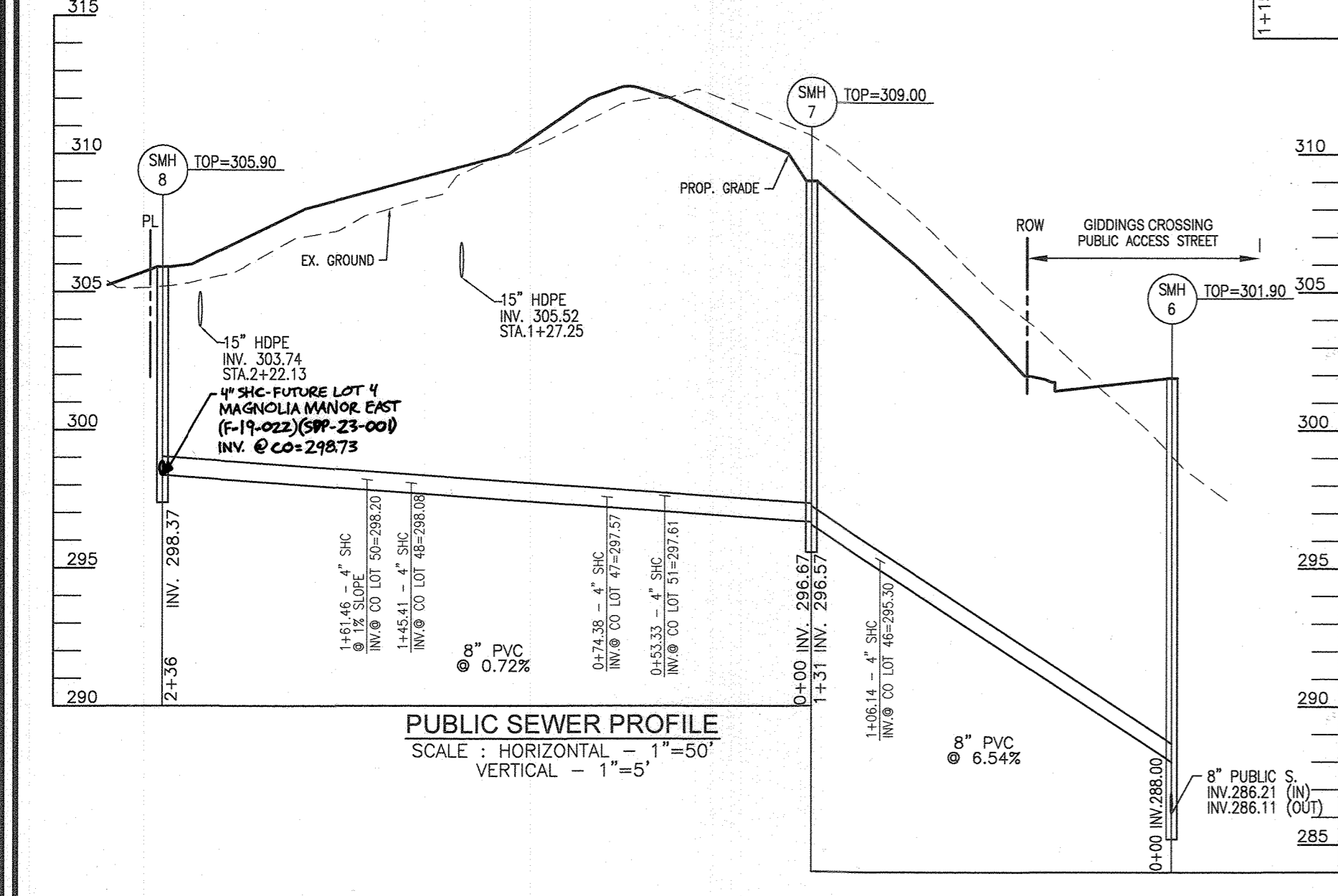
\*CONTRACTOR TO TESTPIT EXISTING SEWER TO VERIFY INVERT ELEVATION AT TIE-IN PRIOR TO CONSTRUCTION



PUBLIC SEWER - MANHOLE LOCATION CHART

MH NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
1	STD. PRECAST MANHOLE (G-5.12)	N 529786.56 E 1351810.25	278.00	265.04	265.94	
2	STD. PRECAST MANHOLE (G-5.12)	N 529831.26 E 1351717.00	277.20	266.63	266.53	
3	TYPE B DROP MH HO. CO. STD. DET. S-1.32	N 529903.35 E 1351728.99	276.00	270.33	267.03	
4	STD. PRECAST MANHOLE (G-5.12)	N 529977.76 E 1351725.65	283.05	271.60	271.50	
5	STD. PRECAST MANHOLE (G-5.12)	N 530062.47 E 1351539.59	288.00	280.10	280.00	
6	STD. PRECAST MANHOLE (G-5.12)	N 530088.69 E 1351274.08	301.90	288.00	286.21	286.11
7	STD. PRECAST MANHOLE (G-5.12)	N 530187.23 E 1351187.41	309.00	296.67	296.57	
8	TERMINAL MH HO. CO. STD. DET. S-1.31	N 530422.97 E 1351196.73	305.90	-	298.37	
9	STD. PRECAST MANHOLE (G-5.12)	N 529969.22 E 1351246.59	296.51	286.93	286.83	
10	STD. PRECAST MANHOLE (G-5.12)	N 529891.46 E 1351221.38	294.45	287.85	287.35	
11	STD. PRECAST MANHOLE (G-5.12)	N 529976.53 E 1350959.18	302.51	293.47	293.37	
12	TERMINAL MH HO. CO. STD. DET. S-1.31	N 529975.82 E 1350920.15	302.76	-	293.73	
13	STD. PRECAST MANHOLE (G-5.12)	N 529624.23 E 1351793.96	282.62	270.14	269.14	
14	STD. PRECAST MANHOLE (G-5.12)	N 529575.01 E 1351690.57	287.00	279.63	279.53	
15	STD. PRECAST MANHOLE (G-5.12)	N 529610.26 E 1351540.57	293.20	283.35	283.25	
16	STD. PRECAST MANHOLE (G-5.12)	N 529572.43 E 1351506.89	293.60	284.52	284.22	
17	STD. PRECAST MANHOLE (G-5.12)	N 529611.38 E 1351385.02	295.37	287.03	286.93	
18	TERMINAL MH HO. CO. STD. DET. S-1.31	N 529651.66 E 1351323.47	295.60	-	287.77	

PUBLIC SEWER PROFILE  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'



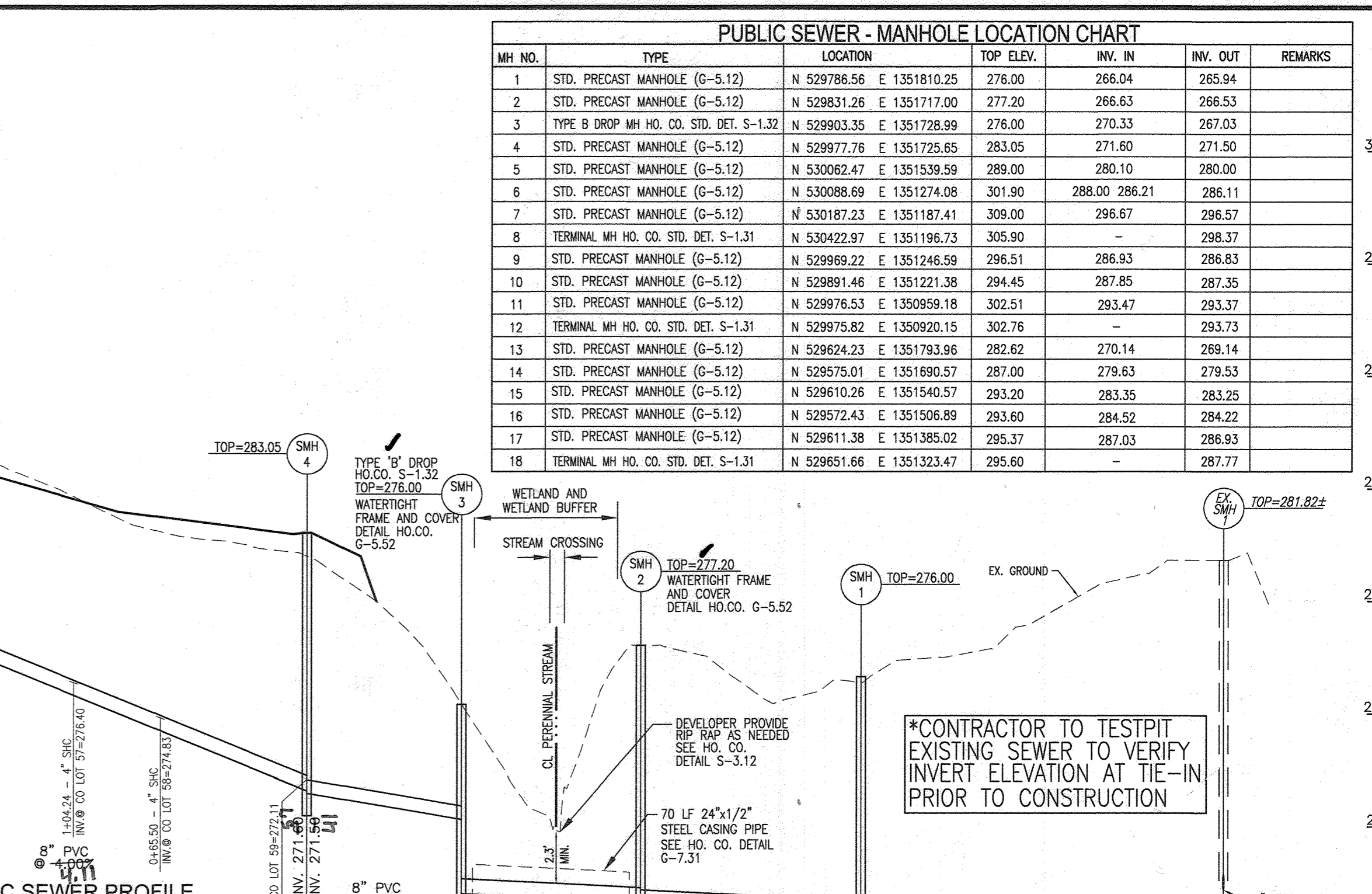
PUBLIC SEWER PROFILE  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'

MINIMUM CELLAR ELEVATION (MCE)

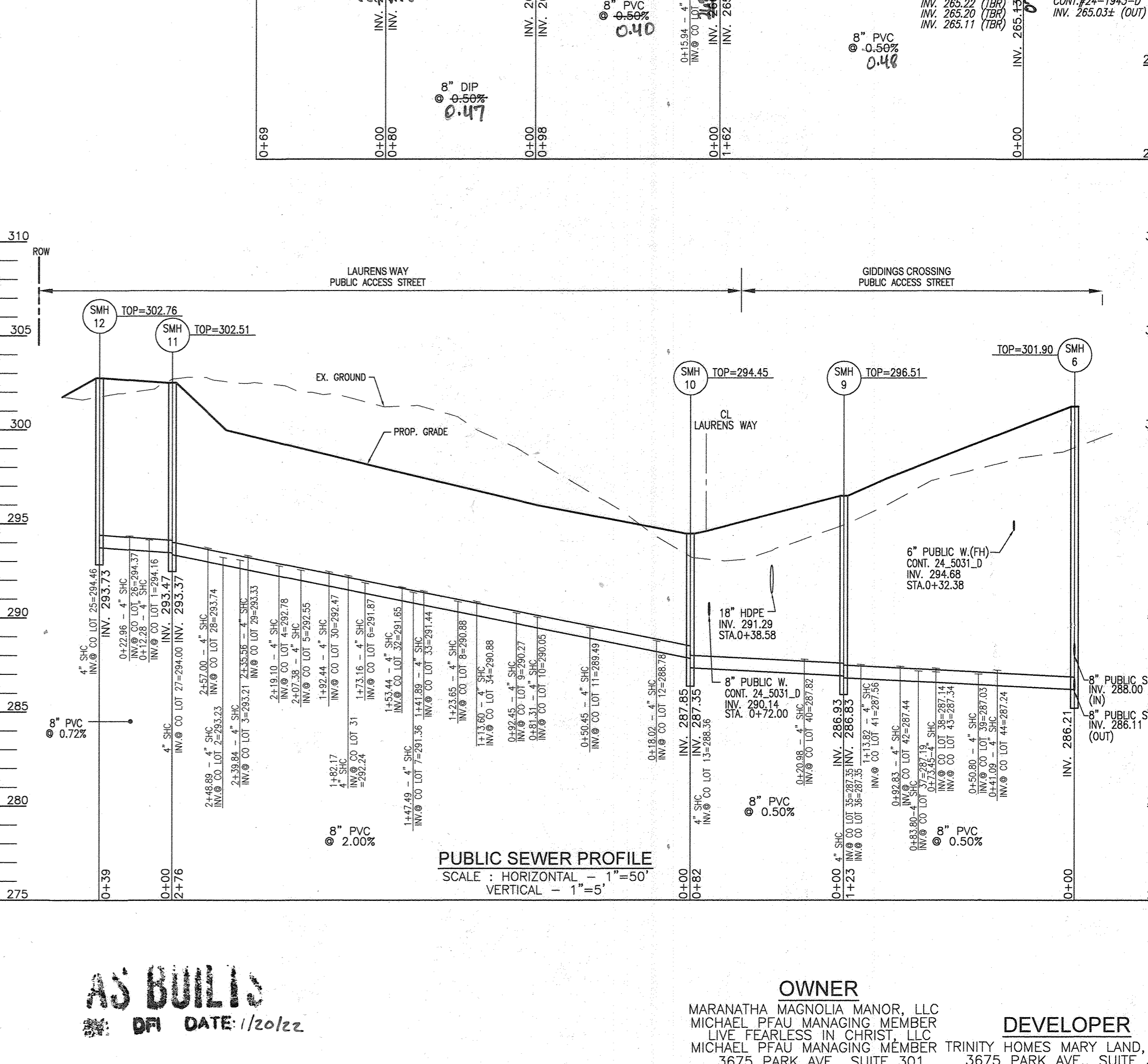
DROP THRU SLAB = 2.5

LOT #	INV 4" SHC	TYPE	DIST TO ESMT/RW	EL @ ESMT	DIST ESMT - HSE	SHC SLOPE	EL @ HOUSE	BF. FLOOR EL.	FF. FLOOR EL.	MCE
1	293.72	SINGLE	22	294.16	67	2.0%	295.38	N/A*	305.00	297.9
2	293.34	SINGLE	20	293.74	62	2.0%	294.98	N/A*	304.33	297.5
3	292.81	SINGLE	20	293.21	61	2.0%	294.43	N/A*	303.66	296.9
4	292.40	SINGLE	19	292.78	60	2.0%	293.98	N/A*	302.99	296.5
5	292.17	SINGLE	19	292.55	58	2.0%	293.71	N/A*	302.32	296.2
6	291.47	SINGLE	20	291.87	58	2.0%	293.03	N/A*	301.30	295.5
7	290.96	SINGLE	20	291.36	60	2.0%	292.56	N/A*	300.63	295.1
8	290.48	SINGLE	20	290.88	58	2.0%	292.04	N/A*	299.96	294.5
9	289.87	SINGLE	20	290.27	60	2.0%	291.47	N/A*	299.29	294.0
10	289.65	SINGLE	20	290.05	58	2.0%	291.21	N/A*	298.62	293.7
11	289.09	SINGLE	20	289.49	58	2.0%	290.65	N/A*	297.70	293.2
12	288.38	SINGLE	20	288.78	60	2.0%	289.98	N/A*	297.03	292.5
13	288.02	SINGLE	17	288.35	58	2.0%	289.52	N/A*	296.36	292.0
14	287.94	SINGLE	31	288.55	82	2.0%	290.20	N/A*	299.00	292.7
15	287.69	SINGLE	20	288.41	70	2.0%	289.81	N/A*	298.33	292.3
16	287.46	SINGLE	35	288.18	66	2.0%	289.48	N/A*	297.66	291.8
17	287.20	SINGLE	29	287.78	60	2.0%	289.98	N/A*	297.66	291.5
18	287.20	SINGLE	28	287.78	60	2.0%	289.98	N/A*	296.99	291.5
19	286.44	SINGLE	31	287.06	58	2.0%	288.22	N/A*	296.50	290.7
20	286.00	SINGLE	32	286.64	58	2.0%	287.80	N/A*	296.00	290.3
21	285.50	SINGLE	32	286.14	60	2.0%	287.34	N/A*	295.50	289.8
22	285.11	SINGLE	32	285.75	58	2.0%	286.91	N/A*	295.83	289.4
23	284.91	SINGLE	32	285.55	60	2.0%	286.75	N/A*	295.83	289.3
24	285.25	SINGLE	27	285.79	67	2.0%	287.13	N/A*	295.83	289.6
25	293.92	SINGLE	27	294.46	72	2.0%	295.90	N/A*	305.40	298.4
26	293.79	SINGLE	29	294.37	70	2.0%	295.77	N/A*	305.40	298.3
27	293.54	SINGLE	23	294.00	68	2.0%	295.32	N/A*	304.73	297.8
28	293.16	SINGLE	29	293.74	68	2.0%	294.94	N/A*	304.08	297.6
29	292.73	SINGLE	30	293.33	66	2.0%	294.65	N/A*	303.39	297.2
30	291.87	SINGLE	30	292.47	58	2.0%	293.63	N/A*	302.21	296.1
31	291.64	SINGLE	30	292.24	60	2.0%	293.44	N/A*	301.54	295.8
32	291.07	SINGLE	29	291.65	66	2.0%	292.97	N/A*	300.87	295.5
33	290.86	SINGLE	29	291.44	60	2.0%	292.64	N/A*	300.87	295.1
34	290.28	SINGLE	30	290.88	58	2.0%	292.04	N/A*	300.20	294.5
35	289.99	SINGLE	18	289.55	60	2.0%	289.55	N/A*	297.89	291.1
36	289.59	SINGLE	18	289.35	66	2.0%	289.67	N/A*	298.56	291.2
37	289.79	SINGLE	20	289.19	60	2.0%	289.39	N/A*	299.56	290.9
38	289.74	SINGLE	20	289.14	58	2.0%	289.30	N/A*	300.23	290.8
39	289.53	SINGLE	20	289.03	66	2.0%	289.35	N/A*	300.90	290.9
40	289.20	SINGLE	31	288.63	66	2.0%	288.14	N/A*	298.30	291.6
41	288.94	SINGLE	30	287.54	66	2.0%	286.88	N/A*	298.97	291.4
42	286.84	SINGLE	30	287.44	66	2.0%	286.76	N/A*	299.61	291.3
43	286.74	SINGLE	30	287.34	58	2.0%	286.50	N/A*	300.31	291.0
44	286.58	SINGLE	33	287.24	66	2.0%	286.56	N/A*	300.98	291.1
45	294.98	SINGLE	27	295.52	78	2.0%	297.08	301.50	310.50	299.6
46	295.10	SINGLE	10	295.30	74	2.0%	296.78	302.00	311.00	299.3
47	297.37	SINGLE	10	297.57	66	2.0%	298.89	307.00	316.00	301.4
48	297.88	SINGLE	10	298.08	80	2.0%	299.68	305.00	314.00	302.2
49	299.97	SINGLE	30	300.57	88	2.0%	302.33	308.50	317.50	304.8
50	298.00	SINGLE	20	298.40	59	1.0%	299.99	305.00	314.00	301.5
51	297.21	SINGLE	20	297.61	68	2.0%	299.97	303.20	312.20	301.5
52	295.90	SINGLE	53	296.93	97	2.0%	298.90	300.00	309.00	291.4
53	289.76	SINGLE	20	285.16	85	1.0%	296.50	295.00	307.50	288.6
54	283.11	SINGLE	10	283.31	59	2.0%	284.49	293.50	302.50	287.0
55	281.45	SINGLE	20	281.85	56	2.0%	282.97	298.00	298.00	285.5
56	279.64	SINGLE	20	280.04	66	2.0%	281.36	285.50	294.50	283.9
57	276.87	SINGLE	20	277.27	80	1.0%	276.07	281.30	290.30	280.6
58	275.63	SINGLE	20	276.03	54	1.0%	276.57	279.60	288.60	279.1
59	273.54	SINGLE	17	273.88	66	2.0%	273.20	279.00	288.00	277.7
60	266.18	SINGLE	10	266.38	93	2.0%	268.24	EXISTING HOUSE	270.7	270.7
61	281.34	SINGLE	10	281.54	85	2.0%	283.24	EXISTING HOUSE	286.7	286.7
62	298.52	SINGLE	10	298.72	64	2.0%	300.00	EXISTING HOUSE	312.30	302.5

\* NO BASEMENT PROVIDED.



PUBLIC SEWER PROFILE  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'



PUBLIC SEWER PROFILE  
SCALE: HORIZONTAL - 1"=50'  
VERTICAL - 1"=5'

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOTS	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2	LOTS	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 1	9206 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 32	9217 LAURENS WAY	SMH #1	21.0' x 11.0'
LOT 2	9208 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 33	9219 LAURENS WAY	SMH #1	21.0' x 11.0'
LOT 3	9210 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 34	9221 LAURENS WAY	SMH #1	21.0' x 11.0'
LOT 4	9212 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 35	9201 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 5	9214 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 36	9203 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 6	9216 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 37	9205 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 7	9220 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 38	9207 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 8	9222 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 39	9209 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 9	9224 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 40	9211 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 10	9226 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 41	9213 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 11	9230 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 42	9215 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 12	9232 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 43	9217 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 13	9234 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 44	9219 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 14	9240 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 45	9223 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 15	9242 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 46	9227 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 16	9244 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 47	9231 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 17	9246 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 48	9235 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 18	9248 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 49	9239 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 19	9250 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 50	9243 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 20	9254 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 51	9247 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 21	9256 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 52	9251 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 22	9258 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 53	9255 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 23	9260 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 54	9259 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 24	9262 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 55	9263 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 25	9201 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 56	9267 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 26	9203 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 57	9271 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 27	9205 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 58	9275 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 28	9207 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 59	9279 GIDDINGS CROSSING	SMH #1	21.0' x 11.0'
LOT 29	9209 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 60	9283 LAURENS WAY	SMH #1	21.0' x 11.0'
LOT 30	9213 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 61	9287 LAURENS WAY	SMH #1	21.0' x 11.0'
LOT 31	9215 LAURENS WAY	SMH #1	21.0' x 11.0'	LOT 62	9291 LAURENS WAY	SMH #1	21.0' x 11.0'