

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 PHOTOGRAPHIC SURVEYS 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 NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 508A AND 508S. ALL VERTICAL CONTROLS ARE BASED ON NAVD'88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:
 GEODETIC SURVEY CONTROL 508A (N 527561.68/E 1359772.60)
 BRASS DISC SET ON TOP OF A CONCRETE MONUMENT.
 GEODETIC SURVEY CONTROL 508S (N 524999.37/E 1359725.75)
 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 TUNNELS 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 TEST PITS HAVE NOT BEEN DISCOVERED. THE CONTRACTOR SHALL LOCATE 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 1-800-252-1133
 BGE (CONSTRUCTION SERVICES) 410-637-8713
 BGE (EMERGENCY) 410-685-0123
 BUREAU OF UTILITIES 410-315-4900
 COLONIAL PIPELINE CO 410-795-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-315-5537
 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 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-18 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 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 MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR 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, 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 HARNESSES. 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 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 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 (PEX) 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 EBAA IRON 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.
 - FOR STACKED RESIDENTIAL DWELLING UNITS, EACH BUILDING SHALL HAVE A 4" WATER HOUSE CONNECTION WITH AN INSIDE METER SETTING FOR FIRE PROTECTION AND A SINGLE DOMESTIC SERVICE. DOMESTIC SERVICE TO BE PROVIDED BY 1.5" SINGLE OR TWIN WATER HOUSE CONNECTIONS WITH 3/4" SINGLE OR TWIN OUTSIDE METER SETTINGS AND 1" CONNECTORS TO THE INDIVIDUAL UNITS.

- 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 WATERTIGHT FRAME AND COVER, STANDARD DETAIL CS-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 DRAINED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-15-063.

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

Alvin B. Bhatia 12/06/23
 SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Alvin Bhatia 11/29/2023
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
Alvin Bhatia 12-9-23
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

DESIGN MANUAL WAIVER APPROVAL (DMV2-20-016):
 THIS PLAN IS SUBJECT TO A DESIGN MANUAL WAIVER DMV2-20-016 TO DESIGN MANUAL VOLUME II; APPROVED 06/08/20; TO SECTION 5.4.B.5 WHICH REQUIRES A MINIMUM 10' HORIZONTAL CLEARANCE BETWEEN ANY PERMANENT STRUCTURE AND THE EDGE OF A PUBLIC UTILITY EASEMENT AS IT APPLIES TO BUILDING #5; THE USE OF A CURB CUT-OUT-IN LIEU OF INLET PT-202; AND THE PUBLIC WATERLINE WILL BE PLACED ONE (1) FOOT FROM THE EDGE OF THE CURB (AND SFT FROM OUTSIDE OF 7.2" PIPE) PER PLANS PROVIDED ON 05/27/2020. THE DESIGN MANUAL WAIVER IS HEREBY APPROVED WITH THE FOLLOWING REQUIREMENTS:
 A. WATERLINE H SHALL BE RESTRAINED JOINT IN ITS ENTIRETY.

| TYPE OF BUILDING : | RESIDENTIAL |
|---|-----------------------|
| NO. OF UNITS: | 278 APARTMENT UNITS |
| NO. OF SINGLE WATER HOUSE CONNECTIONS : | 1 |
| NO. OF TWIN WATER HOUSE CONNECTIONS : | 0 |
| NO. OF SINGLE SEWER HOUSE CONNECTIONS : | 2 |
| NO. OF TWIN SEWER HOUSE CONNECTIONS : | 0 |
| DRAINAGE AREA: | LITTLE PATUXENT RIVER |
| TREATMENT PLANT : | LITTLE PATUXENT WRP |

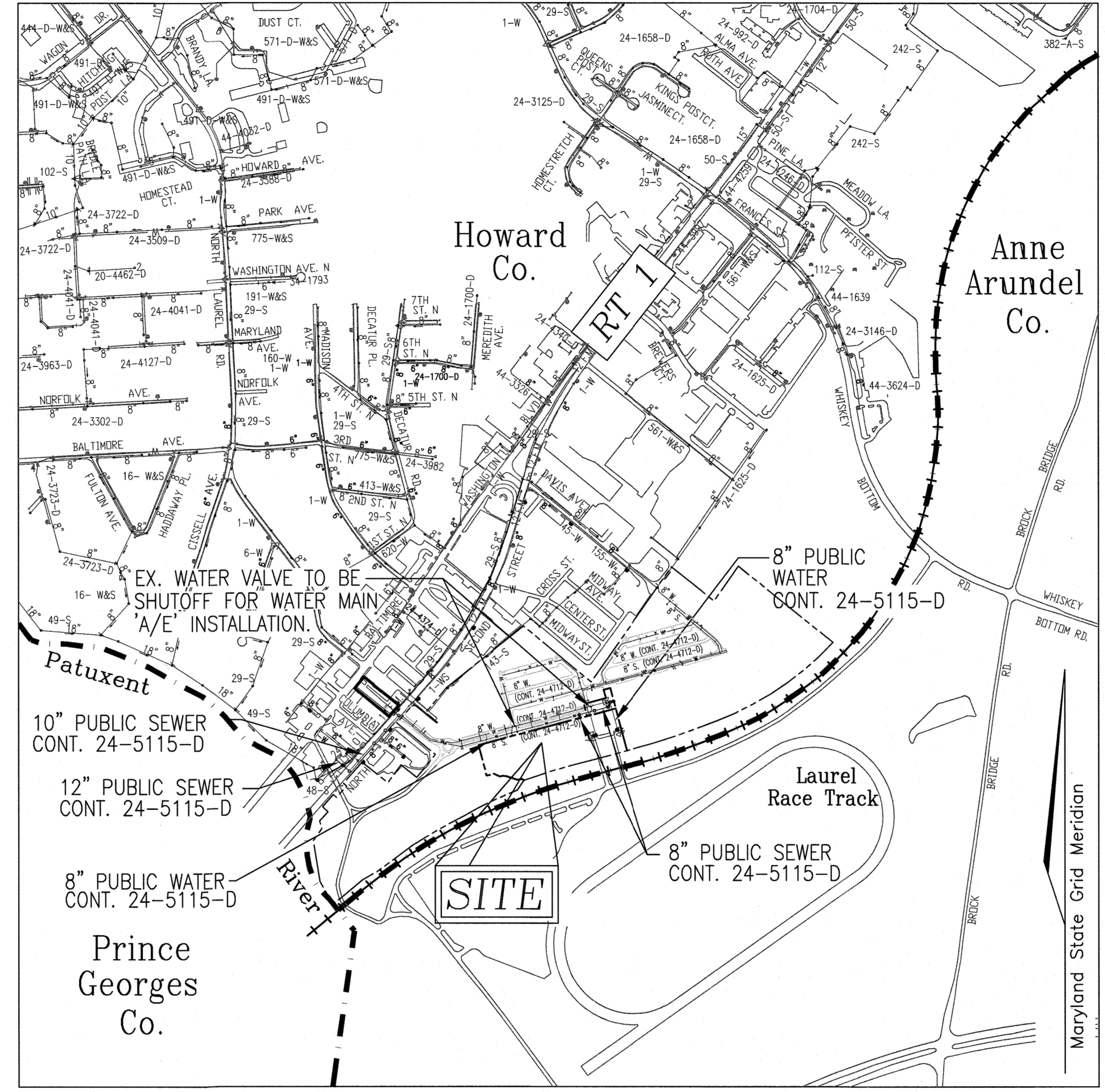
FINAL WATER AND SEWER CONSTRUCTION PLAN

PADDOCK POINTE - PHASE 2

PARCEL 384; PARCELS B-4, B-5, C-2, C-3, C-4 & K-2

CONTRACT 24-5115-D

HOWARD COUNTY, MARYLAND

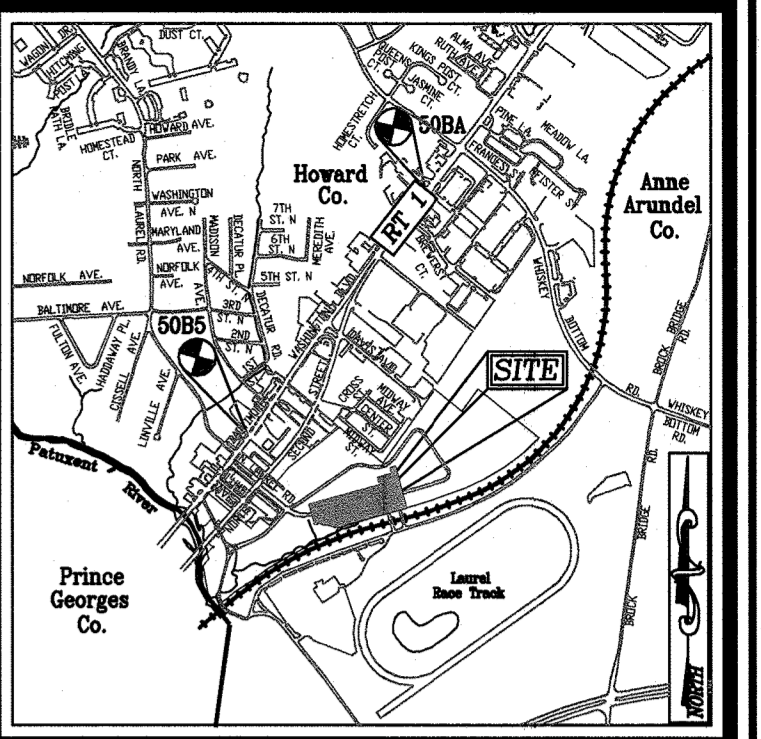


VICINITY MAP
 SCALE: 1"=600'

WATER ZONE: 400
 TEST GRADIENT: 677
 TEST PRESSURE: 227.09 PSI

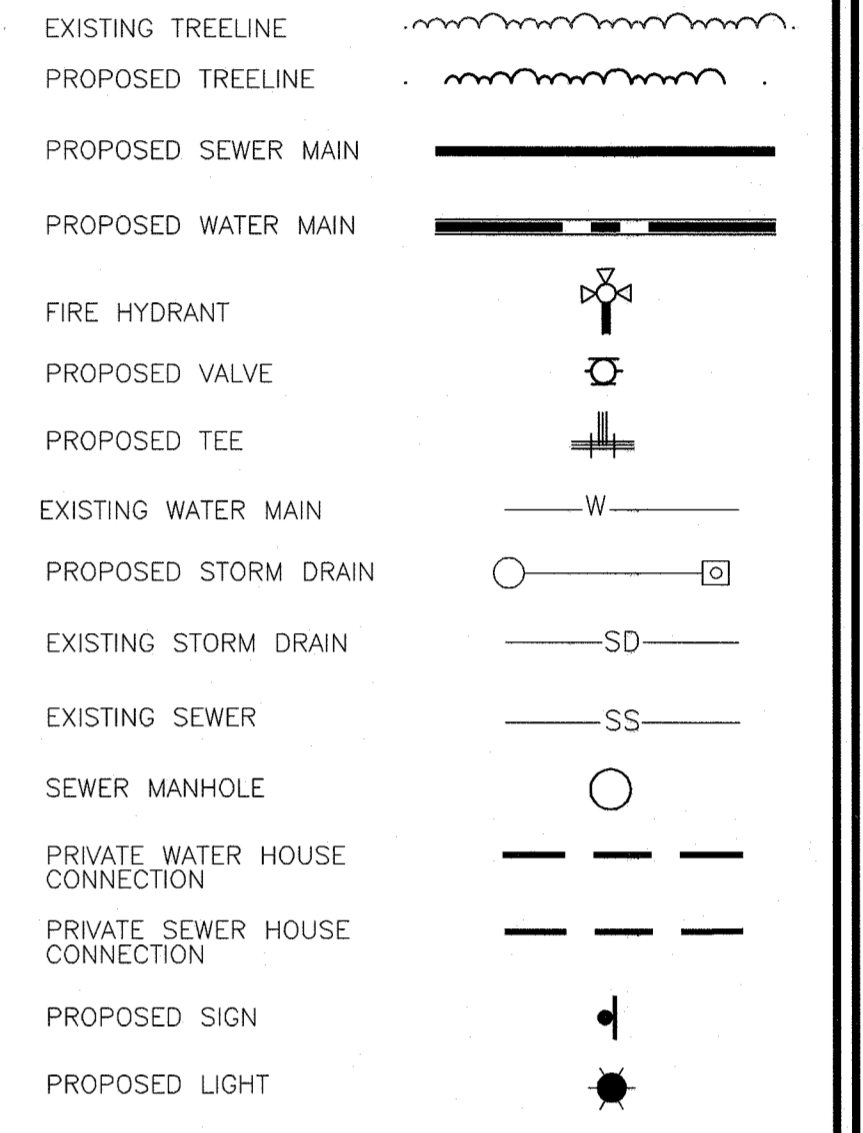
BENCHMARKS

HOWARD COUNTY BENCHMARK - 508A
 N 527561.68 E 1359772.60 ELEV.: 249.44
 HOWARD COUNTY BENCHMARK - 508S
 N 524999.37 E 1357925.75 ELEV.: 178.20



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP/GRID NO: 5169 -G4

LEGEND



QUANTITIES

| NAME OF UTILITY CONTRACTOR : | | | | |
|--|----------------------|------------|------|-----------------------|
| SURVEY AND DRAFTING DIVISION AS-BUILT DATE : | | | | |
| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | |
| | | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
| WATER | | | | |
| 8" WATER (PVC C-900) (DR-18) | 672 LF | | | |
| 6" WATER DIP (FV) | 63 LF | | | |
| 8"X8" TAPPING SLEEVE AND VALVE | 1 EA | | | |
| 8" X 6" TEE | 3 EA | | | |
| 6" VALVE | 3 EA | | | |
| FIRE HYDRANT & TEST STATION | 3 EA | | | |
| 8" CAP AND BUTTRESS | 1 EA | | | |
| 8" - 1/8" HORIZ. BEND | 8 EA | | | |
| 8" - VERT. COUPLING | 1 EA | | | |
| SEWER | | | | |
| STANDARD 4" PRECAST MANHOLE | 11 EA | | | |
| 8" PVC SEWER | 179 LF | | | |
| 10" PVC SEWER | 559 LF | | | |
| 12" PVC SEWER | 58 LF | | | |

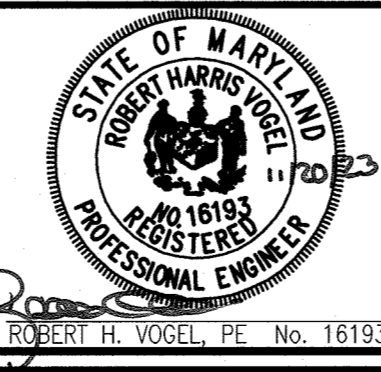
SHEET INDEX

| DESCRIPTION | SHEET NO. |
|--|-----------|
| COVER SHEET & LOCATION MAP | 1 OF 6 |
| LAYOUT PLAN | 2 OF 6 |
| WATER AND SEWER PROFILES | 3 OF 6 |
| US ROUTE 1 SEWER MAIN PLAN AND PROFILE | 4 OF 6 |
| US ROUTE 1 MAINTENANCE OF TRAFFIC PLAN | 5 OF 6 |
| US ROUTE 1 MAINTENANCE OF TRAFFIC PLAN | 6 OF 6 |

OWNER: TRIPLE BELL FARMS, LLC
 198 LAUREL RACE TRACK RD
 LAUREL, MD 20725
 301-470-5494

OWNER/DEVELOPER: 20008 DELAWARE, INC.
 198 LAUREL RACE TRACK RD
 LAUREL, MD 20725
 301-470-5494

VOGEL ENGINEERING & TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com



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, LICENSE NO. 16193, EXPIRES ON 06-30-2024.

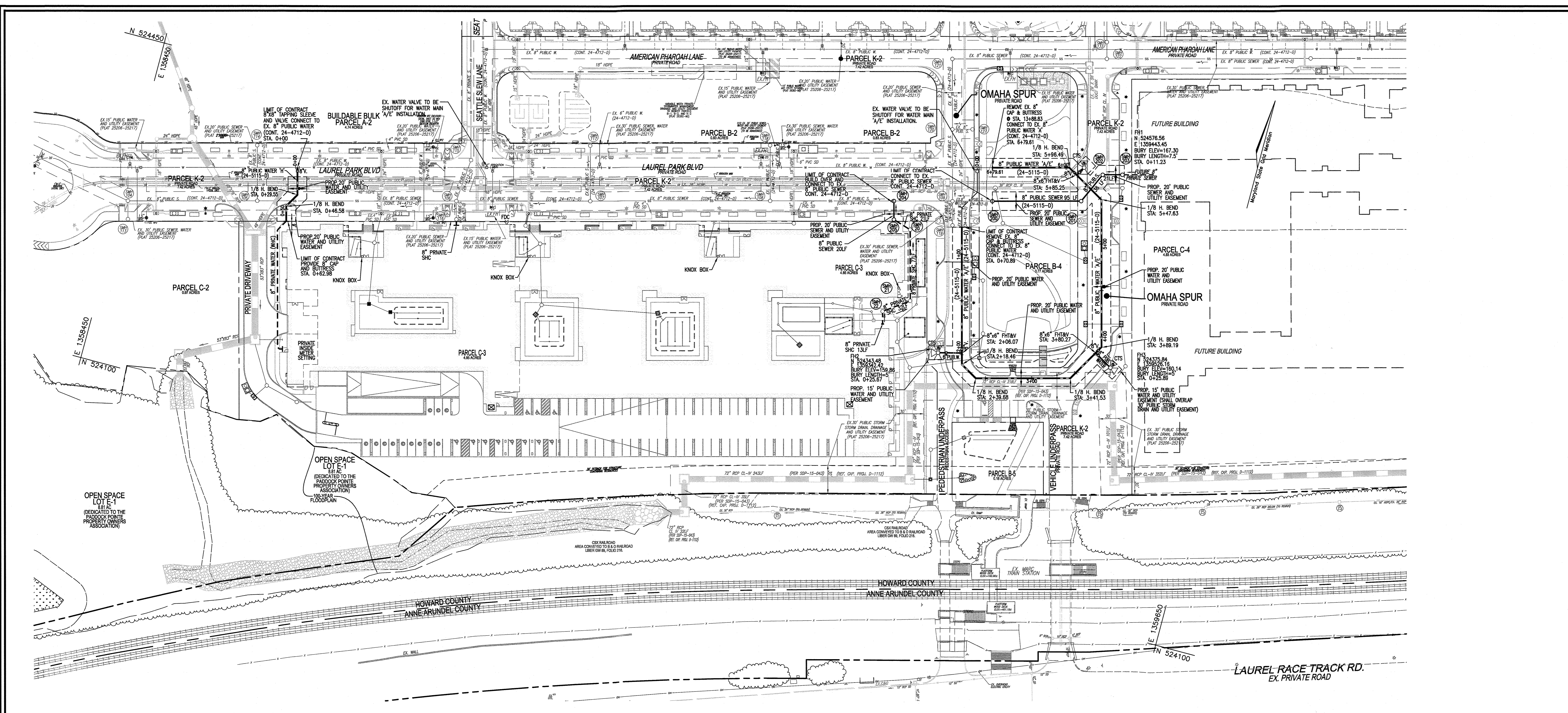
DES: DZE
 DRN: KG/H/DZE
 CHK: RHV
 DATE: NOV 2023 NO. REVISION DATE

COVER SHEET
 FINAL WATER AND SEWER
 CONTRACT NO. 24-5115-D

PADDOCK POINTE - PHASE 2
 278 APARTMENT UNITS
 PARCELS B-4, B-5, C-2, C-3, C-4 & K-2
 ZONED: TOD

SCALE AS SHOWN
 SHEET 1 OF 6
 TAX MAP 50, GRID 10
 6TH ELECTION DISTRICT
 PARCEL 384
 HOWARD COUNTY, MARYLAND

K:\Project\07-11\paddock\07FINAL\Phase 2\DWG-WWS-COVER.dwg, 11/29/2023 10:27 AM



NOTE:
FOR SEWER MANHOLE LOCATION CHART, PLEASE SEE SHEET 3.

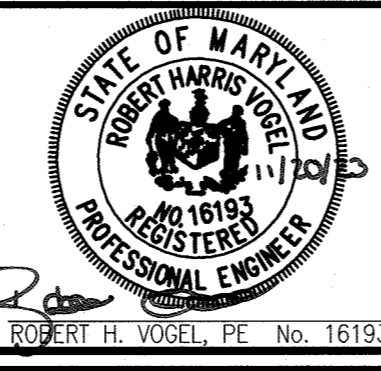
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
11/29/2023
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
12-19-23
CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21103
P: 410.461.7666 F: 410.461.8961 www.timmons.com



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| DES: | DRN: | CHK: | DATE: | NO. | REVISION | DATE: |
|------|----------|------|----------|-----|----------|-------|
| DZE | KG/H/DZE | RHV | NOV 2023 | | | |

LAYOUT SHEET
FINAL WATER AND SEWER
CONTRACT NO. 24-5115-D

600' SCALE MAP NO. 50 BLOCK NO. 10

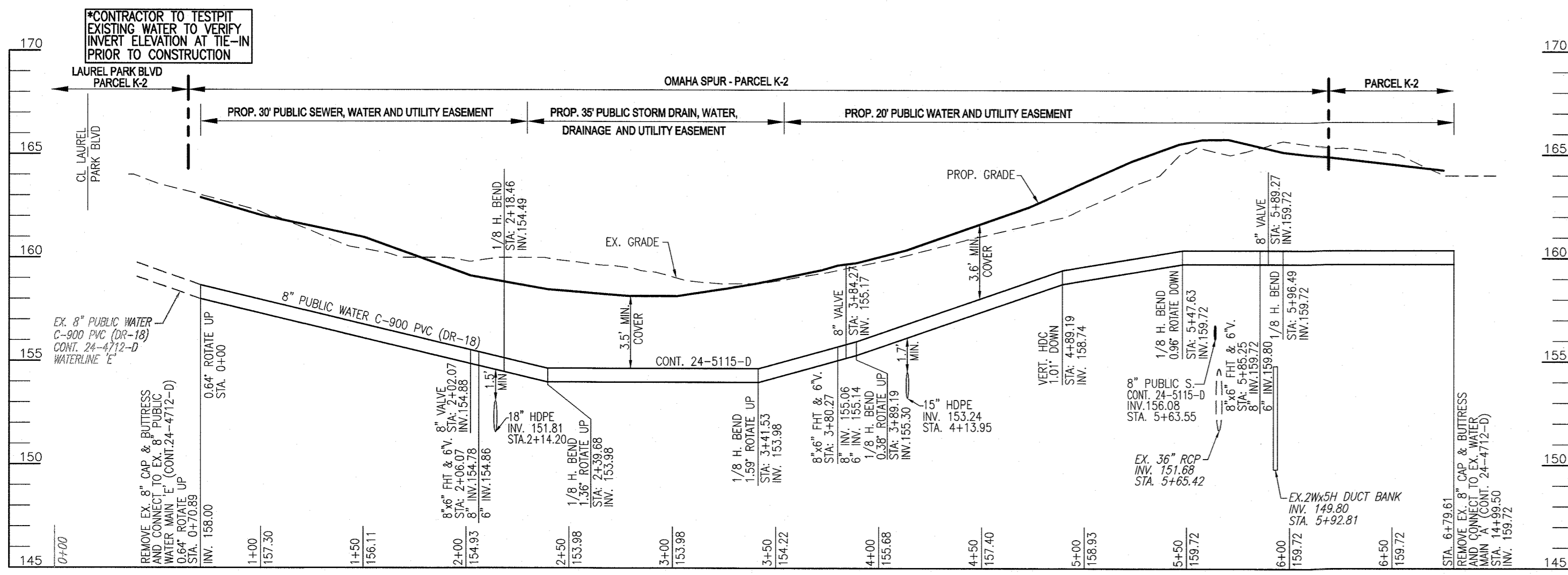
PADDOCK POINTE - PHASE 2
278 APARTMENT UNITS
PARCELS B-4, B-5, C-2, C-3, C-4 & K-2
ZONED: TOD

TAX MAP 50, GRID 10
6TH ELECTION DISTRICT

OWNER: 20006 DELAWARE, INC.
198 LAUREL RACE TRACK RD
LAUREL, MD 20725
301-470-5494

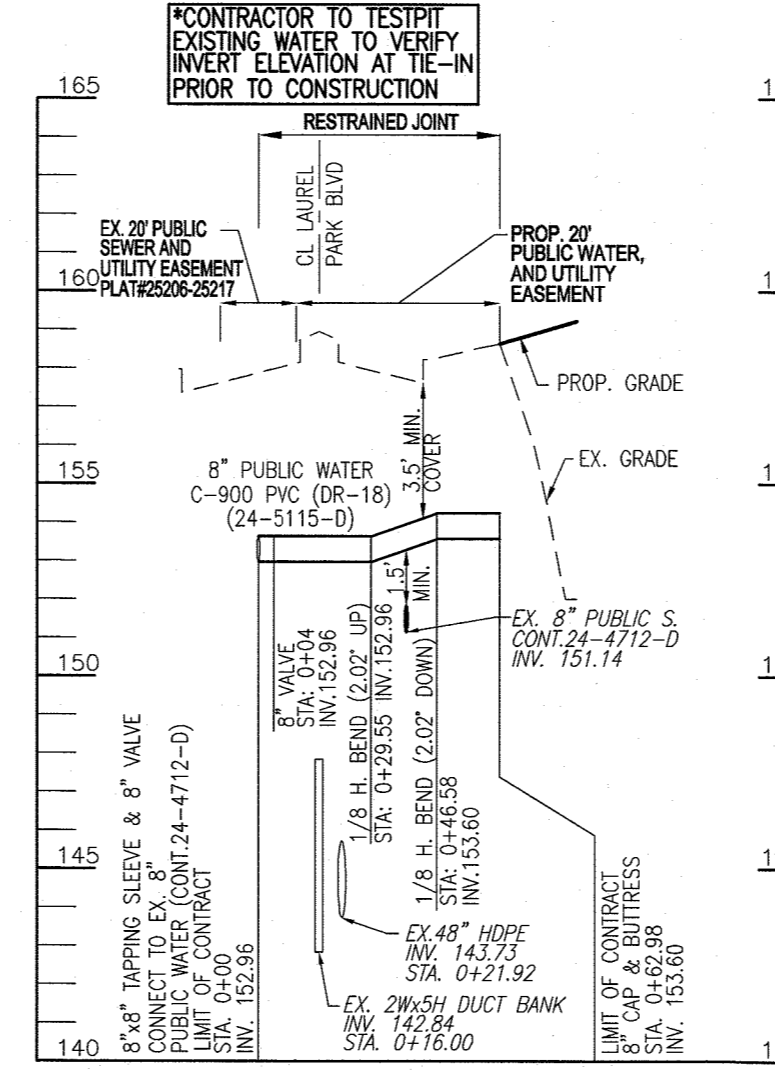
OWNER/DEVELOPER: 198 LAUREL RACE TRACK RD
LAUREL, MD 20725
301-470-5494

SCALE AS SHOWN
SHEET 2 OF 6
PARCEL 384
HOWARD COUNTY, MARYLAND



WATER MAIN 'A' / E' PROFILE

SCALE: 1"=50 HORIZ.
1"=5' VERT.

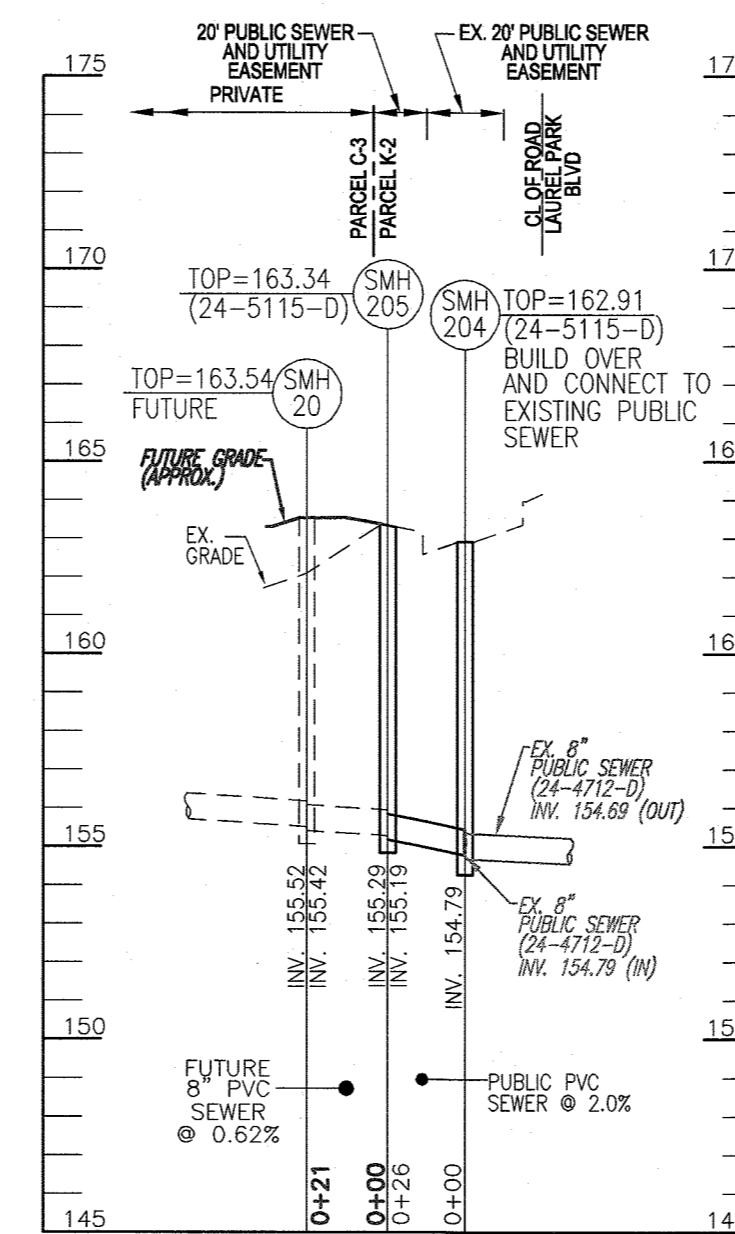


WATER MAIN 'H' PROFILE

SCALE: 1"=50 HORIZ.
1"=5' VERT.

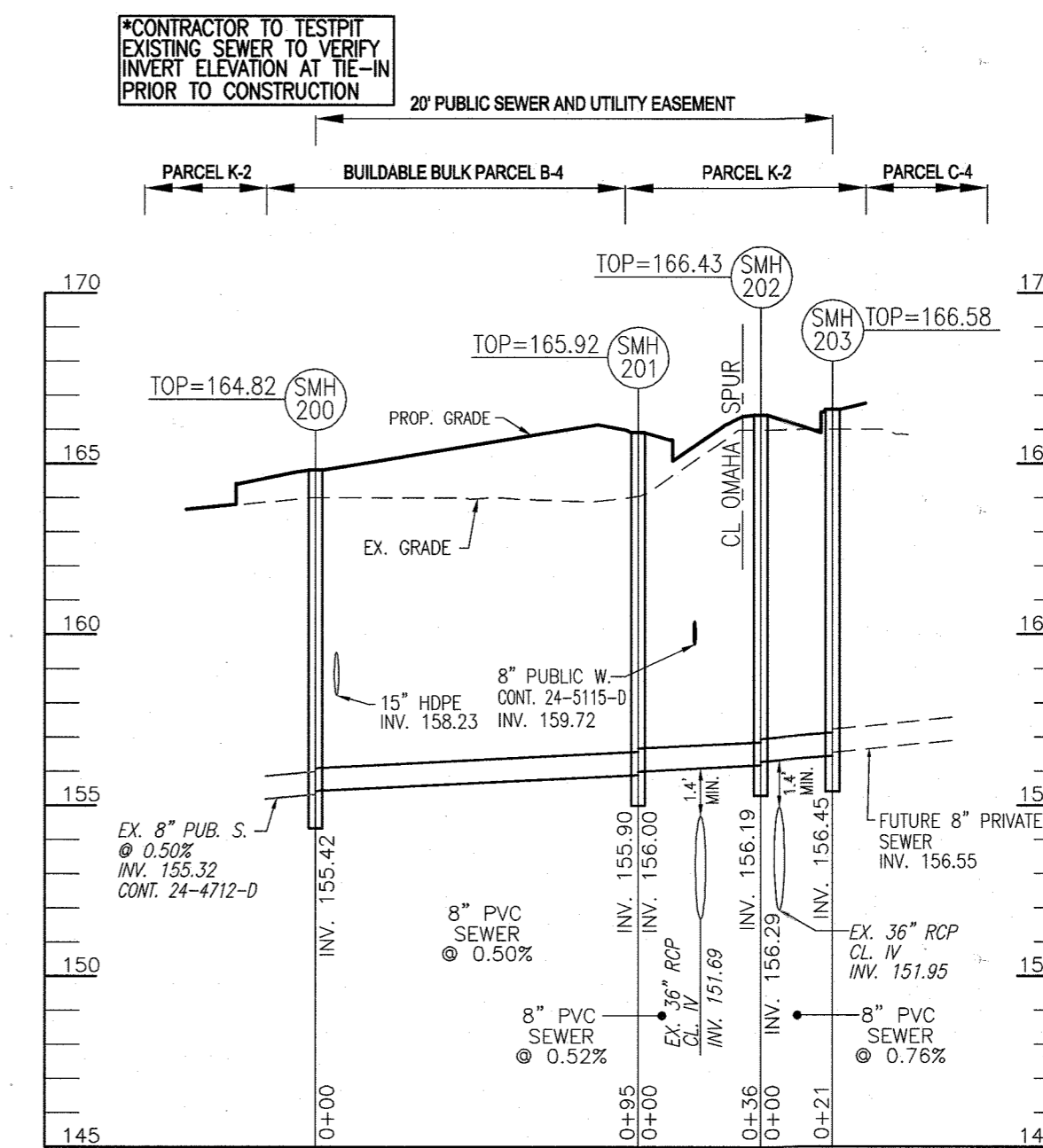
| WL STA. | APPURTENANCE | NORTHING | EASTING |
|--|--|-----------|------------|
| WATERLINE 'A/E' (WITHIN OMAHA SPUR) | | | |
| WL STA. 0+70.89 | CONNECT TO EX. 8" PUB. W. CONT. 24-4712-D, 0.64' ROTATE UP | 524480.70 | 1359332.38 |
| WL STA. 2+02.07 | 8" VALVE | 524353.86 | 1359366.19 |
| WL STA. 2+06.07 | 8"X6" TEE, 6" VALVE, AND FH | 524350.09 | 1359367.22 |
| WL STA. 2+16.46 | 1/8" HORZ. BEND | 524338.12 | 1359370.42 |
| WL STA. 2+39.68 | 1/8" HORZ. BEND, 1.36" ROTATE UP | 524327.49 | 1359368.77 |
| WL STA. 3+41.53 | 1/8" HORZ. BEND, 1.39" ROTATE UP | 524353.74 | 1359407.19 |
| WL STA. 3+40.27 | 8"X6" TEE, 6" VALVE, AND FH | 524387.19 | 1359506.72 |
| WL STA. 3+84.27 | 8" VALVE | 524390.65 | 1359508.73 |
| WL STA. 3+89.19 | 1/8" HORZ. BEND, 0.38" ROTATE UP | 524394.89 | 1359511.21 |
| WL STA. 4+89.19 | VERT. HDC 1.01' DOWN | | |
| WL STA. 5+47.63 | 1/8" HORZ. BEND, 0.96" ROTATE DOWN | 524575.70 | 1359455.74 |
| WL STA. 5+85.26 | 8"X6" TEE, 6" VALVE, AND FH | 524566.83 | 1359437.82 |
| WL STA. 5+89.27 | 8" VALVE | 524568.85 | 1359434.34 |
| WL STA. 5+96.49 | 1/8" HORZ. BEND | 524572.46 | 1359428.10 |
| WL STA. 6+79.81 | CONNECT TO EX. 8" PUBLIC WATER CONT. 24-4712-D | 524551.01 | 1359347.79 |
| PROFILE 'H' TO PARCEL C-3 (SOUTH OF LAUREL PARK BLVD) | | | |
| WL STA. 0+00 | CONNECT TO EX. 8" PUBLIC WATER CONT. 24-4712-D | 524357.79 | 1358623.17 |
| WL STA. 0+04.00 | 8" VALVE | 524353.92 | 1358624.20 |
| WL STA. 0+29.55 | 1/8" HORZ. BEND (2.02' UP) | 524329.23 | 1358630.79 |
| WL STA. 0+48.58 | 1/8" HORZ. BEND (2.02' DOWN) | 524314.50 | 1358622.26 |
| WL STA. 0+62.98 | 8" CAP AND BUTTRISS | 524298.65 | 1358626.49 |

| MH NO. | TYPE | LOCATION | TOP ELEV. | INV. IN | INV. OUT | REMARKS |
|--------|-------------------------------|--------------------------|-----------|-----------------|----------|-----------------|
| 2 | STD. PRECAST MANHOLE (G-5.12) | N 524186.53 E 1357613.66 | 150.74 | 135.15 / 120.49 | 120.37 | |
| 119 | STD. PRECAST MANHOLE (G-5.12) | N 524480.06 E 1359322.21 | 162.97 | 155.33 | 155.23 | |
| 4 | STD. PRECAST MANHOLE (G-5.12) | N 524149.51 E 1357657.81 | 149.57 | 136.48 | 136.31 | MAKE WATERTIGHT |
| 200 | STD. PRECAST MANHOLE (G-5.12) | N 524516.26 E 1359357.06 | 164.82 | 155.42 | 155.32 | |
| 201 | STD. PRECAST MANHOLE (G-5.12) | N 524540.95 E 1359449.63 | 165.92 | 156.00 | 155.90 | |
| 202 | STD. PRECAST MANHOLE (G-5.12) | N 524574.29 E 1359464.83 | 166.43 | 156.29 | 156.19 | |
| 203 | STD. PRECAST MANHOLE (G-5.12) | N 524579.77 E 1359485.37 | 166.58 | | 156.40 | |
| 204 | STD. PRECAST MANHOLE (G-5.12) | N 524488.91 E 1359254.50 | 162.91 | 154.79 / 154.79 | 154.69 | |
| 205 | STD. PRECAST MANHOLE (G-5.12) | N 524469.59 E 1359259.65 | 163.34 | 155.29 | 155.19 | |
| 206 | STD. PRECAST MANHOLE (G-5.12) | N 524109.83 E 1357702.45 | 153.50 | 140.31 | 140.21 | MAKE WATERTIGHT |
| 207 | STD. PRECAST MANHOLE (G-5.12) | N 524297.06 E 1357868.86 | 155.00 | 142.91 | 142.81 | |
| 208 | STD. PRECAST MANHOLE (G-5.12) | N 524382.93 E 1357945.17 | 155.75 | 144.16 | 144.06 | |
| 209 | STD. PRECAST MANHOLE (G-5.12) | N 524483.17 E 1358034.09 | 156.82 | 146.82 | 146.66 | |



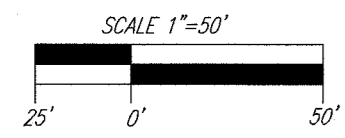
SEWER MAIN PROFILE

SCALE: 1"=50 HORIZ.
1"=5' VERT.



SEWER MAIN PROFILE

SCALE: 1"=50 HORIZ.
1"=5' VERT.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, BUREAU OF UTILITIES

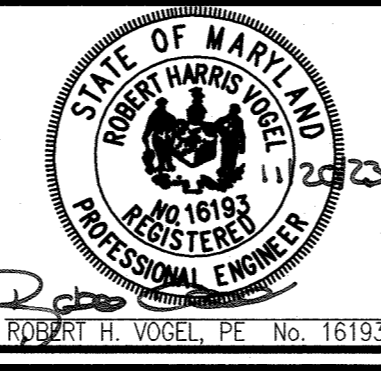
11/29/2023
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

12.19.23
DATE

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com



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 09-27-2024

| | |
|----------|-----------|
| DES: | DZE |
| DRN: | KG/HH/DZE |
| CHK: | RHV |
| DATE: | NOV 2023 |
| NO. | |
| REVISION | |
| DATE | |

PROFILES SHEET
**FINAL WATER AND SEWER
CONTRACT NO. 24-5115-D**

600' SCALE MAP NO. 50
BLOCK NO. 10

OWNER: TRIPLE BELL FARMS, LLC
198 LAUREL RACE TRACK RD
LAUREL, MD 20725
301-470-5494

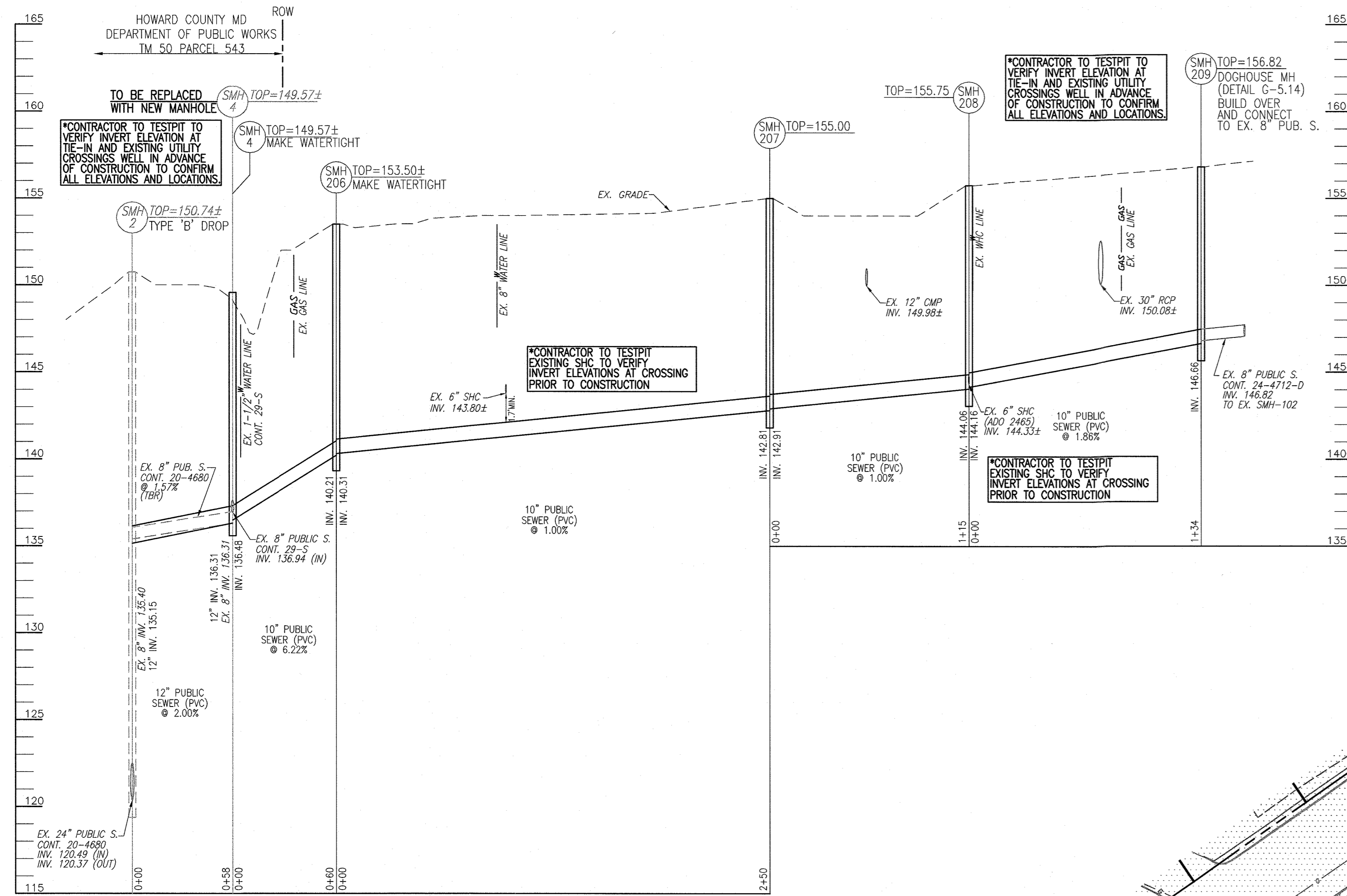
OWNER/DEVELOPER: 2006 DELAWARE, INC.
198 LAUREL RACE TRACK RD
LAUREL, MD 20725
301-470-5494

PADDOCK POINTE - PHASE 2
278 APARTMENT UNITS
PARCELS B-4, B-5, C-2,
C-3, C-4 & K-2
ZONED: TOD

TAX MAP 50, GRID 10
6TH ELECTION DISTRICT

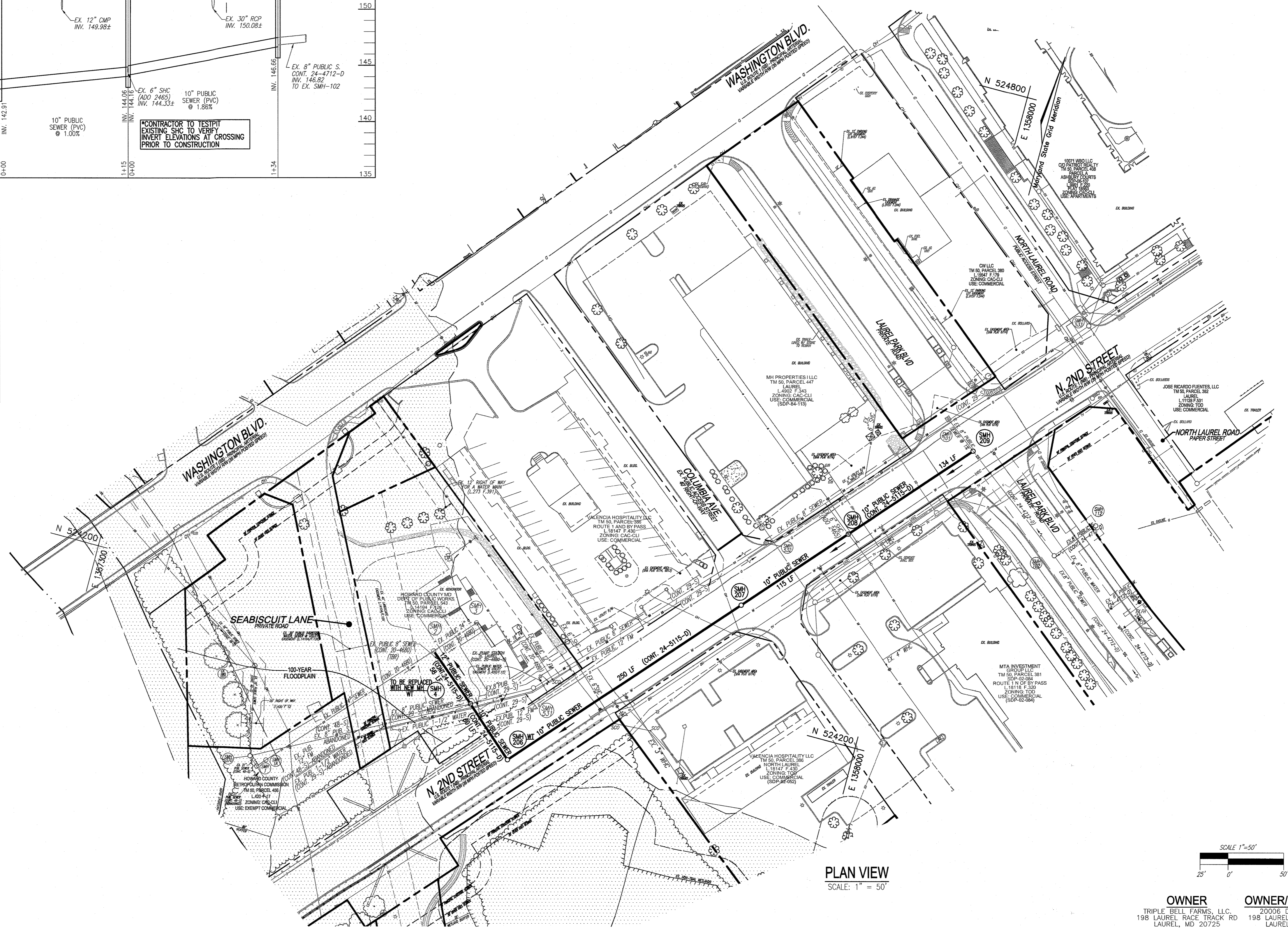
PARCEL 384
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 6



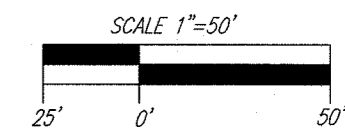
SEWER MAIN PROFILE

SCALE: 1"=50' HORIZ.
1"=5' VERT.



PLAN VIEW

SCALE: 1" = 50'



SEQUENCE OF CONSTRUCTION FOR SEWER MAIN WITHIN US ROUTE 1

NOTE: STEPS 2-5, 7, 9 AND 10 SHALL BE CONDUCTED DURING NIGHT TIME HOURS.

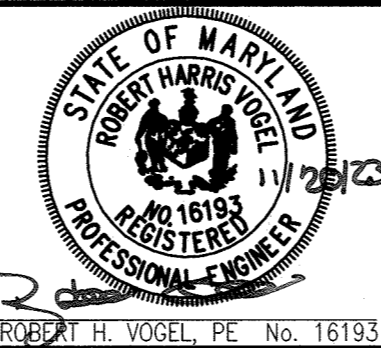
1. CONTRACTOR SHALL COORDINATE WELL IN ADVANCE OF CONSTRUCTION WITH HOWARD COUNTY BUREAU OF UTILITIES TO PLAN FOR ANY NECESSARY SERVICE INTERRUPTIONS.
2. INSTALL PUMP AROUND AT EXISTING SMH-531 (CONT 29-S) TO EX. SMH-3 (CONT. 20-4680-D). TEMPORARILY BLOCK EXISTING OUTFLOW ORIFICE AT SMH-531, STOPPING FLOW TO EX. SMH-4.
3. REMOVE SMH-4 AND EXISTING 8" MAIN BETWEEN EX. SMH-2 AND EX. SMH-4. BUILD NEW SMH-4 OVER EXISTING 8" SEWER. CORE DRILL HOLE INTO EXISTING SMH-2 AND INSTALL NEW 12" SEWER BETWEEN EX. SMH-2 AND NEW SMH-4. TEMPORARILY BLOCK NEW ORIFICE AT SMH-4 (FROM SMH-206 TO SMH-4).
4. REMOVE PUMP-AROUND AND TEMPORARY BLOCKING AT SMH-531 (FROM STEP 2).
5. INSTALL PROPOSED SEWER BETWEEN NEW SMH-4 AND SMH-206.
6. INSTALL PROPOSED SEWER BETWEEN SMH-206 THRU SMH-207 TO STA 1+00 (TOWARDS SMH-208).
7. CONSTRUCT SMH-8 OVER EXISTING 6" SHC, AND INSTALL REMAINING SEWER BETWEEN SMH-207 AND SMH-208. TEMPORARILY BLOCK NEW ORIFICES (IN FROM SMH-209, AND OUT TO SMH-207). THE EXISTING 6" SHC SHALL REMAIN IN OPERATION UNTIL PROPOSED SEWER CONSTRUCTION IS COMPLETED AND FUNCTIONING.
8. INSTALL PROPOSED SEWER BETWEEN SMH-208 THRU SMH-209 TO STA 1+20 (TOWARDS SMH-2098) AND SMH-209.
9. BUILD SMH-209 OVER EXISTING 8" SEWER MAIN (CONT. 24-4712-D) AT LOCATION SHOWN. INSTALL REMAINING SEWER BETWEEN SMH-208 AND SMH-209. TEMPORARILY BLOCK NEW ORIFICE AT SMH-209 (FROM SMH-209 TO SMH-208). THE EXISTING 8" SEWER SHALL REMAIN IN OPERATION UNTIL PROPOSED SEWER CONSTRUCTION IS COMPLETED AND FUNCTIONING (SEE NOTES BELOW).
10. ONCE ALL PROPOSED PUBLIC SEWER IS CONSTRUCTED BETWEEN (THIS STEP SHOULD BE CONDUCTED DURING NIGHT TIME HOURS):
 - A. REMOVE THE TEMPORARY ORIFICE BLOCKING AT NEW SMH-4 (FROM STEP 2).
 - B. PERMANENTLY BLOCK EXISTING 6" OUTFLOW @ SMH-208 (FROM SMH-208 TO EX. 8" SEWER MAIN, CONT. 29-S) (FROM STEP 4). REMOVE TEMPORARY BLOCKING FROM SMH-208.
 - C. PERMANENTLY BLOCK EXISTING 8" OUTFLOW ORIFICE @ SMH-209 (FROM SMH-209 TO EX. SMH-101, FROM STEP 5). REMOVE TEMPORARY BLOCKING FROM SMH-9.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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DES: DZE
 DRN: KG/H/DZE
 CHK: RHV
 DATE: NOV 2023 NO. REVISION DATE

**US ROUTE 1 SEWER MAIN
 IMPROVEMENTS PLAN AND PROFILE**
**FINAL WATER AND SEWER
 CONTRACT NO. 24-5115-D**

PADDOCK POINTE - PHASE 2
 278 APARTMENT UNITS
 PARCELS B-4, B-5, C-2,
 C-3, C-4 & K-2
 ZONED: TOD

OWNER TRIPLE BELL FARMS, LLC.
 198 LAUREL RACE TRACK RD
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 301-470-5494

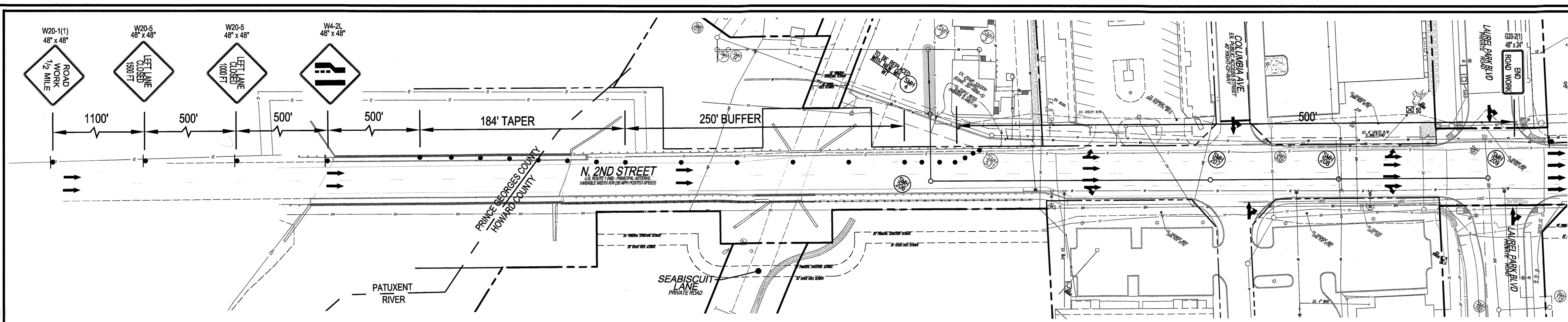
OWNER/DEVELOPER 20006 DELAWARE, INC.
 198 LAUREL RACE TRACK RD
 LAUREL, MD 20725
 301-470-5494

SCALE AS SHOWN
 SHEET 4 OF 6
 PARCEL 384
 HOWARD COUNTY, MARYLAND

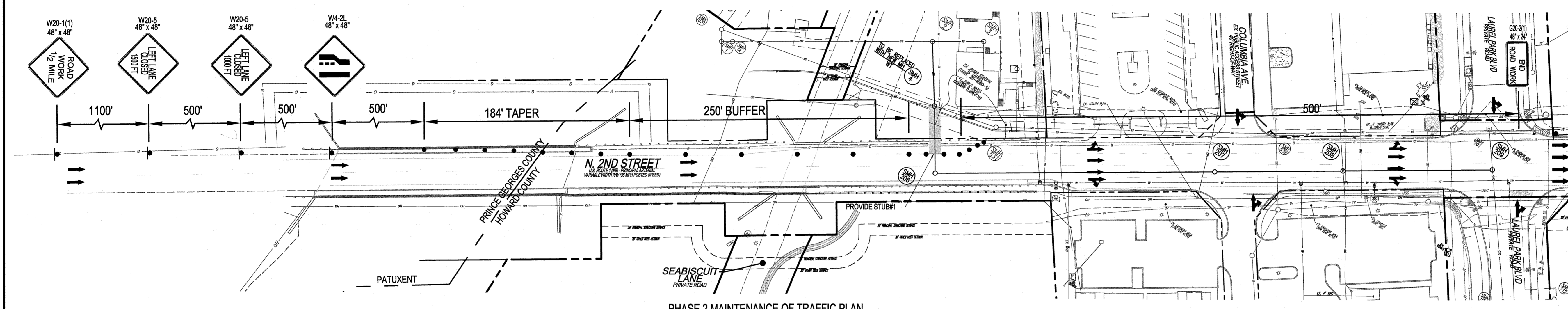
CHIEF, BUREAU OF UTILITIES DATE: 11/29/23
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 11-29-23

600' SCALE MAP NO. 50 BLOCK NO. 10

TAX MAP 50, GRID 10
 6TH ELECTION DISTRICT



PHASE 1 MAINTENANCE OF TRAFFIC PLAN
SCALE: 1" = 50'








PHASE 2 MAINTENANCE OF TRAFFIC PLAN
SCALE: 1" = 50'

- M.O.T. SEQUENCE OF OPERATION PHASE 1**
1. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICALS FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL.
 2. INSTALL ADVANCE WARNING SIGNS AND CHANNELIZING DEVICES (DRUMS) (DESIGN SPEED IS 35 MPH FOR N. 2ND STREET. TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THEY ARE NO LONGER NEEDED).
 3. IMPLEMENT STEPS 1-4 OF "SEQUENCE OF CONSTRUCTION FOR SEWER MAIN WITHIN US ROUTE 1" ON SHEET 4.
 4. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
 5. ALL DRIVEWAYS AND ROADWAY SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.

- M.O.T. SEQUENCE OF OPERATION PHASE 2**
1. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICALS FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL.
 2. INSTALL ADVANCE WARNING SIGNS AND CHANNELIZING DEVICES (DRUMS) (DESIGN SPEED IS 35 MPH FOR N. 2ND STREET. TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THEY ARE NO LONGER NEEDED).
 3. IMPLEMENT STEPS 5 OF "SEQUENCE OF CONSTRUCTION FOR SEWER MAIN WITHIN US ROUTE 1" ON SHEET 4. PROVIDE STUB#1 AT LOCATION SPECIFIED ON PLANS HEREON.
 4. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
 5. ALL DRIVEWAYS AND ROADWAY SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.

LEGEND

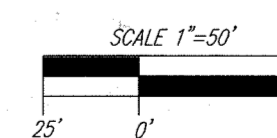
-  DRUM
-  CURRENT PHASE WORK AREA
-  TRAFFIC FLOW ARROW
-  1 POST SIGN
-  PROPOSED SIGN

NOTE:
SEE SHEET 4 FOR CONSTRUCTION OF SEWER AND ASSOCIATED CONSTRUCTION SEQUENCE.

NOTES:
THE FOLLOWING STANDARDS ARE REQUIRED FOR THIS PROJECT:
MD 104.01-30A CHANNELIZATION DEVICE USAGE EQL / LESS THAN 40 MPH OVER 12HRS. NIGHTTIME USE
MD 104.04-30B CHANNELIZATION DEVICE SPACING EQL / LESS THAN 40 MPH
MD 104.04-86 STEEL PLATE METHOD 2, EQUAL TO OR LESS THAN 40 MPH
MD 104.04-04 LEFT LANE CLOSURE / DIVIDED UNCON. EQL / LESS THAN 40 MPH
MD 104.04-06 RIGHT LANE CLOSURE / DIVIDED UNCON. EQL / LESS THAN 40 MPH
MODIFIED MD 104.04-10.2 RIGHT (LEFT) LANES CLOSURE CLOSURE / DIVIDED UNCON. EQL / LESS THAN 40 MPH
FOR ALL STANDARDS REFERRED TO ON THE PLANS THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE AT:
<http://apps.roads.maryland.gov/businesswithsha/bizstdspecs/desmanualstdpub/publicationsonline/ohd/bookstd/index.asp>
ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICALS AND NOTES FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL. PLANS DETAIL TRAFFIC CONTROL FOR PEAK-HOUR MOVEMENTS EXCEPT WHERE NOTED. UTILIZE TYPICALS AS NOTED FOR NON-PEAK HOUR WORK ZONES AS NECESSARY.
2. ANY WORK WITHIN THE TRAVELED PORTION OF THE ROADWAY SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00AM AND 3:00PM MONDAY THROUGH FRIDAY AND 9:00PM TO 5:00AM SUNDAY THROUGH FRIDAY.
3. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
4. ALL DRIVEWAYS AND ROADWAY SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.
5. CONTRACTOR TO INSTALL FINAL PAVING UPON COMPLETION OF MOT PHASE.
6. ADVANCE WARNING DEVICES, TAPERS AND TRANSITIONS SET PER DESIGN SPEED 35 MPH FOR 2ND STREET.
7. CONTRACTOR SHALL INFORM PRIVATE PROPERTY OWNERS IMPACTED BY ROAD CONSTRUCTION.



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OWNER/DEVELOPER
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LAUREL, MD 20725
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, BUREAU OF UTILITIES

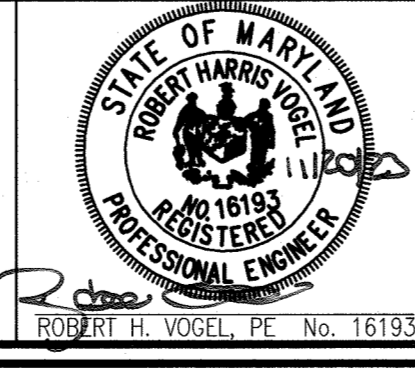
11/29/23
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HOWARD COUNTY, MARYLAND

[Signature]
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| PROFESSIONAL CERTIFICATE | NO. | REVISION | DATE |
|--------------------------|-----------|----------|------|
| DES: | DZE | | |
| DRN: | KG/H/DZE | | |
| CHK: | RHV | | |
| DATE: | NOV. 2023 | | |

**US ROUTE 1 SEWER MAIN
MAINTENANCE OF TRAFFIC PLAN**

**FINAL WATER AND SEWER
CONTRACT NO. 24-5115-D**

PADDOCK POINTE - PHASE 2

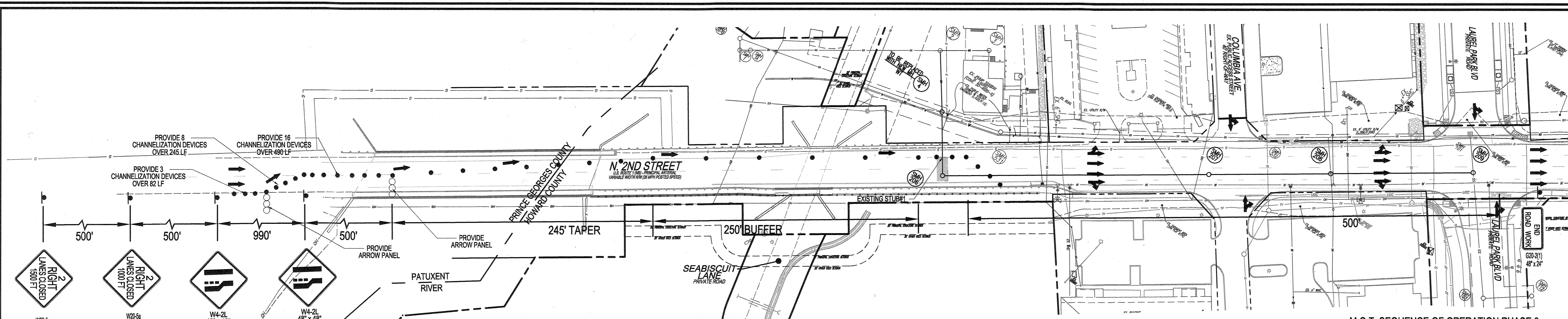
278 APARTMENT UNITS
PARCELS B-4, B-5, C-2,
C-3, C-4 & K-2
ZONED: TOD

TAX MAP 50, GRID 10
6TH ELECTION DISTRICT

PARCEL 384
HOWARD COUNTY, MARYLAND

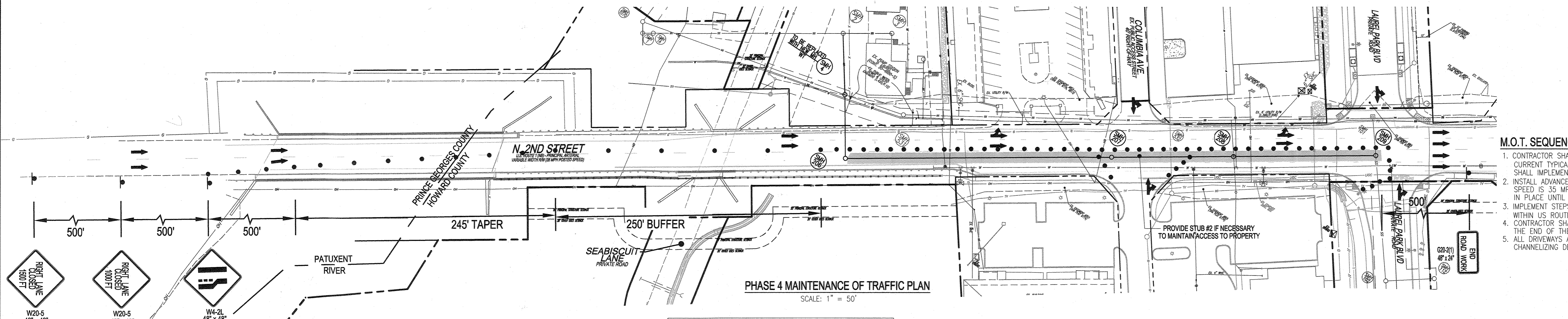
SCALE
AS
SHOWN

SHEET
5 OF **6**



PHASE 3 MAINTENANCE OF TRAFFIC PLAN
SCALE: 1" = 50'

- M.O.T. SEQUENCE OF OPERATION PHASE 3**
1. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICAL'S FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL.
 2. INSTALL ADVANCE WARNING SIGNS AND CHANNELIZING DEVICES (DRUMS) (DESIGN SPEED IS 35 MPH FOR N. 2ND STREET. TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THEY ARE NO LONGER NEEDED.)
 3. COMPLETE IMPLEMENTATION OF STEPS 5 OF "SEQUENCE OF CONSTRUCTION FOR SEWER MAIN WITHIN US ROUTE 1" ON SHEET 4. CONTINUE FROM STUB #1 TO SMH-206.
 4. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
 5. ALL DRIVEWAYS AND ROADWAY SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.



PHASE 4 MAINTENANCE OF TRAFFIC PLAN
SCALE: 1" = 50'

- M.O.T. SEQUENCE OF OPERATION PHASE 4**
1. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICAL'S FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL. CONTRACTOR SHALL IMPLEMENT MD 104.04-06 AND MD 104.01-30A THROUGHOUT PHASE 4.
 2. INSTALL ADVANCE WARNING SIGNS AND CHANNELIZING DEVICES (DRUMS) (DESIGN SPEED IS 35 MPH FOR N. 2ND STREET. TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THEY ARE NO LONGER NEEDED.)
 3. IMPLEMENT STEPS 6-10 OF "SEQUENCE OF CONSTRUCTION FOR SEWER MAIN WITHIN US ROUTE 1" ON SHEET 4.
 4. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
 5. ALL DRIVEWAYS AND ROADWAY SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.

LEGEND

- DRUM
- CURRENT PHASE WORK AREA
- ↑ TRAFFIC FLOW ARROW
- 1 POST SIGN
- ○ ○ ○ ARROW PANEL
- ◇ ROAD WORK AHEAD PROPOSED SIGN

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

KEY:
 ● CHANNELIZING DEVICES
 ○ DIRECTION OF TRAFFIC
 ○ ○ ○ ○ WORK SITE

APPROVED: [Signature] DATE: 11/29/23

STANDARD DETAIL

METHOD 2, EQUAL TO OR LESS THAN 40 MPH

APPROVED: [Signature] DATE: 11/29/23

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

KEY:
 ● CHANNELIZING DEVICES
 ○ SIDE SUPPORT FACE OF SIGN
 ○ ○ ○ ○ DIRECTION OF TRAFFIC
 ○ ○ ○ ○ WORK SITE

APPROVED: [Signature] DATE: 11/29/23

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

KEY:
 ● CHANNELIZING DEVICES
 ○ SIDE SUPPORT FACE OF SIGN
 ○ ○ ○ ○ DIRECTION OF TRAFFIC
 ○ ○ ○ ○ WORK SITE

APPROVED: [Signature] DATE: 11/29/23

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

KEY:
 ● CHANNELIZING DEVICES
 ○ SIDE SUPPORT FACE OF SIGN
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 ○ ○ ○ ○ WORK SITE

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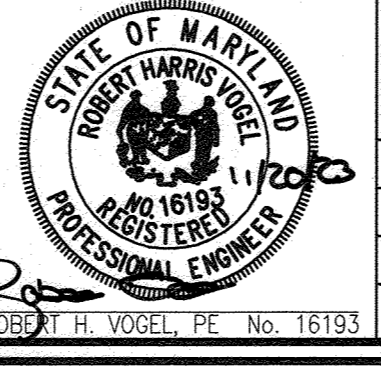
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DATE: NOV 2023 NO. REVISION DATE: 600' SCALE MAP NO. 50 BLOCK NO. 10

US ROUTE 1 SEWER MAIN MAINTENANCE OF TRAFFIC PLAN
FINAL WATER AND SEWER CONTRACT NO. 24-5115-D

PADDOCK POINTE - PHASE 2
 278 APARTMENT UNITS
 PARCELS B-1, B-2, C-2
 ZONED: TOU

SCALE AS SHOWN
 SHEET 6 OF 6

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OWNER/DEVELOPER
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PARCEL 384
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