INDEX OF DRAWINGS

NO.	DESCRIPTION	
1	COVER SHEET	
2	WATER PLAN AND PROFILE	

ADDRESSES WHICH COULD BE IMPACTED BY WATER SERVICE INTERRUPTION:

STRE	ET AD	DRESS:			
	10420	GUILFORD	ROAD		
	10421	GUILFORD	ROAD		
		······································		-	

QUANTITY TABLE ITEMS ESTIMATED QUANTITIES TYPE MANUFACTURER/SUPPLIER 8" WATER MAIN (PVC C900) DR-14 12"x12" x8" TEE 1 EACH 8" GV 2 EACH 8"x6" F.H.T. & V. 2 EACH 8" 1/32 BEND 8" CAP (RESTRAINED) CAP & BUTTRESS 1 EACH 24" STEEL CASING PIPE 0.5" WALL 120 LF 4" WHC AND SHUT OFF VALVES 3 EACH 8"x8" x4" TEE 1 EACH 8"x8"x4"x4" CROSS 1 EACH 12" WATER MAIN (PVC C900) DR-14 2 EACH NAME OF UTILITY CONTRACTOR:

— — EXISTING SEWER MAIN AND MANHOLE Φ—— EXISTING WATER MAIN AND VALVE

SURVEY AND DRAFTING DIVISION AS-BUILT DATE

EXISTING FIRE HYDRANT

PROPOSED WATER MAIN ----- PROPOSED WATER HOUSE CONNECTION

PROPOSED FIRE HYDRANT PROPOSED TEE

SDP-22-010

PROPOSED BEND

PLAN REFERENCE NUMBERS: ECP - 21 - 033, SDP-08-38, SDP-08-038POE WP-08-073, WP-09-020,

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED |UNDER : SDP-22-010 IN ACCORDANCE WITH VOLUME IV SECTION 308.

OWNER/DEVELOPER

DRENNER REAL ESTATE HOWARD COUNTY 10480 GUILFORD ROAD JESSUP, MD 20794 410-792-2600

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

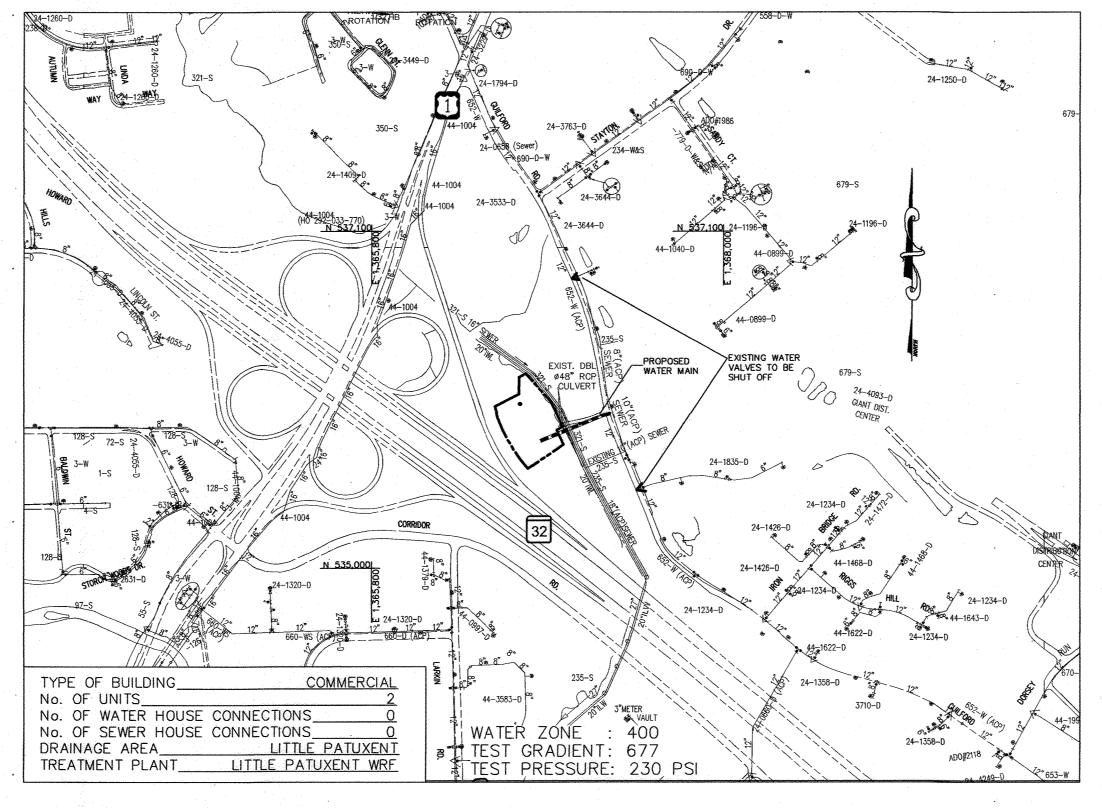
AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I

SSA SAA 20-018 REVISION

CONTRACT NO. 44-5205-D FINAL WATER CONSTRUCTION PLAN DRENNER CONCRETE TM 48, PARCEL 13, GRID 007 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS



WAIVER DMV2-22-019

DESIGN MANUAL WAIVER DMV2-22-019 TO THE SECTION 3.3.B.5, 5.4.B.3, AND 5.14 OF THE DESIGN MANUAL VOLUME II WAS APPROVED ON MARCH 17, 2022 WITH THE FOLLOWING CONDITIONS:

1. USE A TWENTY-FOUR-INCH (24") DIAMETER CASING PIPE WITH A 1/2 INCH WALL THICKNESS TO SUPPORT THE EIGHT-INCH (8") WATER LINE AND ALLOW A WATER MAIN DEPTH GREATER THAN 8 FEET TO PROVIDE MINIMUM CLEARANCE UNDER EXISTING SEWER INTERCEPTORS AND STREAM CROSSING.

> TUNNELS AND CASING SLEEVES (PER DESIGN MANUAL VOLUME IV) 1012.02 MATERIALS

1012.02.01 CARRIER PIPE. 1012 JACK AND BORE AND TUNNELING INSTALLATIONS DESIGN MANUAL VOLUME IV: STANDARD SPECIFICATIONS CARRIER PIPE SHALL BE IN ACCORDANCE WITH THEIR RESPECTIVE SECTIONS OF CATEGORY 900 OF THESE SPECIFICATIONS.

1012.02.02 CASING PIPE. CASING PIPE FOR JACK AND BORE INSTALLATIONS SHALL BE IN ACCORDANCE WITH SECTION 963 OF THESE SPECIFICATIONS.

CASING END SEALS FOR JACK AND BORE INSTALLATIONS SHALL BE IN ACCORDANCE WITH SECTION 963 OF THESE SPECIFICATIONS.

1012.02.04 CASING SPACER/INSULATORS. CASING SPACER/INSULATORS SHALL BE IN ACCORDANCE WITH SECTION 963 OF THESE SPECIFICATIONS.

GROUT SHALL BE IN ACCORDANCE WITH SECTION 963 OF THESE SPECIFICATIONS.

1012.02.06 TUNNEL BULKHEADS. TUNNEL BULKHEADS SHALL BE IN ACCORDANCE WITH SECTION 963 OF THESE SPECIFICATIONS.

COVER SHEET

DRENNER CONCRETE

TM 48, PARCEL 13, GRID 007 CONTRACT NO. 44-5205-D

AS SHOWN

ADC MAP 41 GRID A4

1. 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

HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 48AB AND NO. 47F5. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. MILDENBERG, BOENDER & ASSOCIATES, INC. SHALL PROVIDE DESCRIPTIONS OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS

5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE

EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY

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

8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION AT LEAST FIVE

9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION

11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR

5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS, ALL FIRE HYDRANTS SHALL BE INSTALLED IN

7. TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD

8. 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

9. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC

10. 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

11. ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH

LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL

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 DEFECTION 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

(1½-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI, MEETING THE REQUIREMENTS OF AWWA C900, SHALL

12. WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS

OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN

EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS

963.02.01 STEEL CASING PIPE. FOR WATER AND SEWER CARRIER PIPELINES, THE MINIMUM STEEL CASING PIPE DIAMETER SHALL BE (PER WAIVER) INCHES WITH A

MINIMUM WALL THICKNESS OF 1 INCH. THE CASING PIPE SHALL BE SMOOTH-WALLED STEEL PIPE, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 36,000 PSI

(ASTM A-570 GRADE 36). JOINTS SHALL BE FULLY WELDED AROUND THE CIRCUMFERENCE OF THE PIPE WITH A COMPLETE PENETRATION WELD. PIPE SHALL

HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING

OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN

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"

ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND

CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE

10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE

DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS

(5) WORKING DAYS PRIOR TO THE START OF WORK, AT (410)313-1880. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT

2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT OCTOBER, 2004 BY CHRISTOPHER CONSULTANTS, INC

(410) 685-0123

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

LICENSE NO. 26859, EXP DATE 08/08/25

2. 963.03 CASING END SEALS. SEE COUNTY'S APPROVED PRODUCTS LIST

TUNNELS AND CASING SLEEVES (SECTION 963)

MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

GENERAL NOTES

HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900

STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

12. NO RESIDENTIAL PROPERTIES ARE LIKELY TO BE AFFECTED BY THIS PROJECT.

VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

SECTION 1005 OF THE STANDARD SPECIFICATIONS.

USED WITH PVC MAINS SHALL BE DUCTILE IRON.

COUNTY DESIGN MANUAL.

1. ALL WATER MAINS SHALL BE 8" PVC C900, PRESSURE CLASS DR-14 UNLESS OTHERWISE NOTED.

2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI-FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.

CONFORM TO AWWA C-200. PAINT THE OUTSIDE OF PIPE WITH 2 COATS OF COAL TAR PROTECTIVE COATING.

ENGINEER AT THE CONTRACTOR'S EXPENSE.

ON CONCRETE STRUCTURES, ETC.

MISS UTILITY

PART II WATER

BALTIMORE GAS AND ELECTRIC

3. 963.04 CASING SPACER/INSULATORS. SEE COUNTY'S APPROVED PRODUCTS LIST. 4. 963.05 GROUT.

NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.

(A) THE CEMENT USED FOR GROUT SHALL BE IN ACCORDANCE WITH THE LATEST 'STANDARD SPECIFICATIONS FOR PORTLAND CEMENT" ASTM DESIGNATION C150 FOR TYPE I OR TYPE II. CERTIFIED MILL TESTS SHALL BE FURNISHED FOR ALL CEMENT USED FOR GROUT. THE SAND USED FOR GROUT SHALL BE IN ACCORDANCE WITH ASTM C404 SIZE NO. 1 FINE AGGREGATE, OR ASTM C33 FINE AGGREGATE.

(B) WATER SHALL BE FREE FROM SULFATES AND OTHER OBJECTIONABLE QUANTITIES OF SILT, ORGANIC MATTER AND OTHER IMPURITIES. (C) DESIGN MIX FOR GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 100 PSI ATTAINED WITHIN 24 HOURS. GROUT SHALL BE FLUID ENOUGH TO INJECT THROUGH THE GROUT FITTINGS AND TO FILL VOIDS. HOWEVER, IT SHALL SET PROMPTLY ENOUGH TO KEEP GROUT FLOW UNDER CONTROL AND TO

KEEP GROUT FROM FLOWING INTO THE NEW ANNULAR SPACE AFTER THE NEXT ADVANCE.

5. 963,06 TUNNEL BULKHEADS. TUNNEL BULKHEADS SHALL BE 8-INCH THICK BRICK AND MORTAR EACH END WITH 2 IN DIAMETER PVC DRAIN PIPES

SIXTH ELECTION DISTRICT HOWARD COUNTY

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PLANNING & ZONING

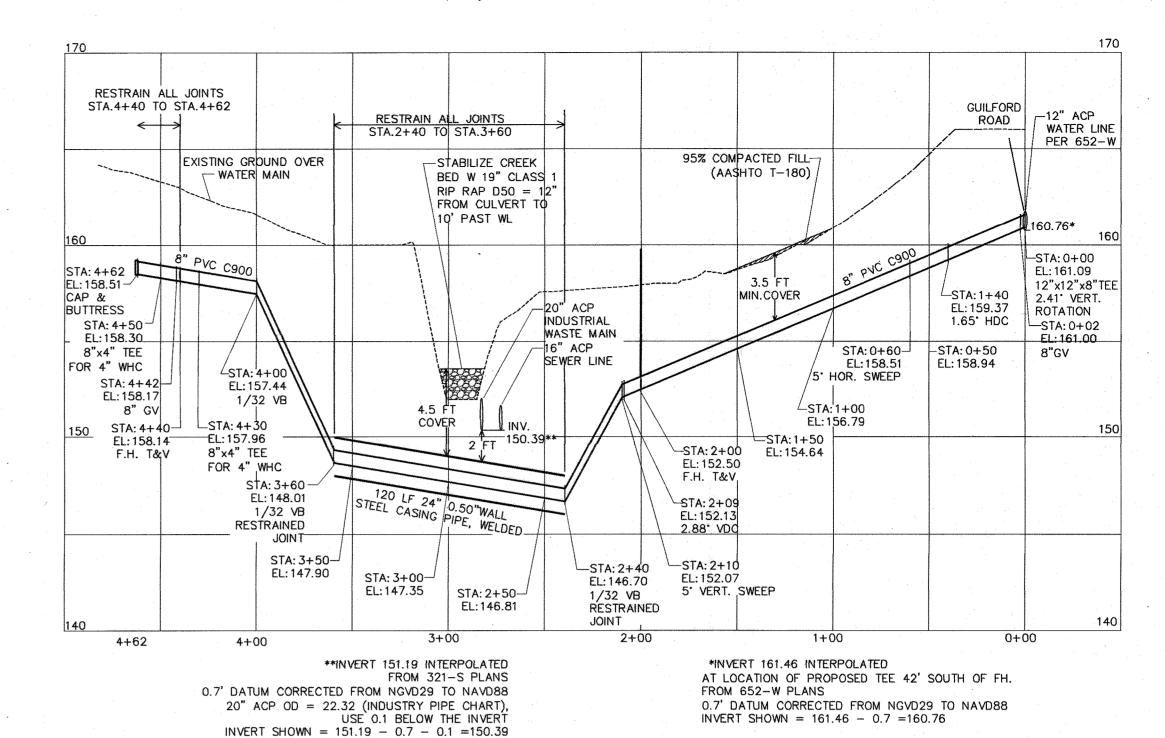
HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION.

MILDENBERG, BOENDER & ASSOC., INC. 8318 FORREST ST, STE 300 ELLICOTT CITY, MD 21043 (410) 997-0296 Balt. (410) 997-0298 Fax.

600' SCALE MAP NO. 41 BLOCK NO. A4

 $1 \circ 2$



PROFILE VIEW:

SCALE: HOR. 1" = 50'

WATER MAIN TABULATION CHART:

FITTINGS/APPURT.	NORTHING	EASTING	STATION
12"x12"x8" T.&V.	535,965.2030	1,367,291.9232	0+00
8" GV	535,964.1710	1,367,288.2150	0+02
1.65" HDC	535959.3424	1,367,270.5490	0+40
5' HOR. SWEEP	535,948.3567	1,367,235.1475	0+60
F.H. T.&V.	535,895.6897	1,367,105.0390	2+00
2.88° VDC	535,892.2729	1,367,097.7104	2+09
5' VERTICAL SWEEP	535,891.5729	1,367,096.0104	2+10
1/32 VB RESTR'D JOINT	535,880.2406	1,367,068.1481	2+40
1 32 VB RESTR'D JOINT	535,834.8799	1,366,956.5500	3+60
1/32 VERTICAL BEND	535,819.8108	1,366,919.3745	4+00
8"x8"x4" TEE	535,812.8095	1,366,901.4970	4+30
4" WHC AND VALVE	535,812.8095	1,366,901.4970	4+30
F.H. T.&V.	535,807.6941	1,366,887.6633	4+40
8" GV	535,806.0521	1,366,884.5309	4+42
8"x8"x4"x4" CROSS	535,800.9958	1,366,871.9271	4+50
2 EA 4" GV	535,800.9958	1,366,871.9271	4+50
8" CAP & BUTTRESS	535,798.1951	1,366,863.3287	4+62
RESTRAINED JOINT	535,984.4247	1,367,286.7505	EXISTING LINE
RESTRAINED JOINT	535,945.8675	1,367,297.3264	EXISTING LINE

PROFILE VIEW:

23+50

STA.: 23+72 / STA: 24+00

EL: 161.0

ACP TO PVC JOINT

EX.12" 652-W (ACP)

STA: 23+50-

EL: 161.09

12"x12"x8"TEE

2.41 VERT

ROTATION

STA: 23+00-

EL: 162.3

STA: 22+50

EL: 163.1

22+50

0.50 INCH WALL 24" STEEL CASING PIPE O.D. 24"

EXISTING GROUND

OVER WATER MAIN

- ACP TO PVC JOINT

EX.12" 652-W (ACP)

24+50

- STA: 24+50---

EL: 160.5

PROPOSED WATER MAIN WITHIN GUILFORD ROAD - REPLACEMENT OF EXISTING 12" ACP WITH 12" PVC C900 SCALE: HOR. 1" = 50"VER. 1" = 5"

SEQUENCE OF CONSTRUCTION INCLUDING REMOVAL OF SECTION OF EXISTING WATER MAIN:

- 1. INSTALL ALL OF PROPOSED 8" MAIN, HYDRANTS, VALVES, WHC, CAPS ETC AS PER PLAN INCLUDING THE JACK AND BORE, CASING AND RELATED APPURTANENCES, EXCEPT FOR THE GUILFORD ROAD CROSSING, CONNECTION TO EXISTING MAIN. (7-14 DAYS)
- 2. CUT AND COVER GUILFORD ROAD CROSSING (8" MAIN INSTALLATION) IN SUCH A MANNER AS TO MINIMIZE DISRUPTION OF TRAFFIC, TO STATION 0+2. (1-2 DAY)
- 3. SHUT OFF WATER TO THE EFFECTED SECTION OF THE EXISTING WATERLINE AT THE LOCATIONS SHOWN ON THE LOCATION MAP. (0-1 DAY)
- 4. EXPOSE COMPLETE SECTION(S) TO BE REPLACED. (0-1 DAY)
- 5. REMOVE SECTION(S) TO BE REPLACED. (0-1 DAY)
- 6. PLACE NEW PIPE BEDDING. (0-1 DAY)
- 7. INSTALL COUPLINGS AND NEW PIPE AND APPURTENANCES (8"GV AND 12X12X8 TEE).
- CONNECT TO 8" MAIN. (0-1 DAY)
- 8. PRESSURE TEST. (0-1 DAY)
- 9. DISINFECT LINE. (0-1 DAY) 10. COVER AND COMPACT LINE AS PER SPECIFICATIONS. (0-1 DAY)
- 11. OPEN LINE AND RESTORE SERVICES. (0-1 DAY)

CONSTRUCTION NOTES:

- STATION 0+00 IS LOCATED AT THE EXISTING 12" DIAMETER ACP WATER MAIN ON THE EAST OR NORTH SIDE OF GUILFORD ROAD.
- 2. 1 SECTION OF EXISTING 12" DIAMETER ACP (IF THE CONNECTION FALLS MID SECTION, OR 2 SECTIONS IF THE CONNECTION LOCATION IS AT A JOINT) IS TO BE REPLACED BY PVC C900 PIPE WITH APPROPRIATE PVC TO ACP COUPLINGS
- 3. ACTUAL LOCATION OF WATER AND SEWER LINES TO BE VERIFIED BY HAND DIGGING OR WATERJET POTHOLING AS DIRECTED BY
- 4. IF DISCREPANCY FOUND BETWEEN FIELD CONDITIONS AND PLAN, ENGINEER TO BE NOTIFIED IMMEDIATELY.
- 5. EXISTING SITE CONNECTION TO SEWER AND WATER AND SHOWN FOR COORDINATION BASED ON ANECDOTAL LOCATION ONLY (NOT FIELD VERIFIED) AS THESE ARE THE ORIGINAL CONNECTIONS MADE IN THE 1970-1980 TIME FRAME.
- 6. WATER CONNECTIONS TO PROPOSED WAREHOUSES ARE FOR SPRINKLERS ONLY. NO NEW SEWER CONNECTIONS ARE
- 7. CONSTRUCTION WILL REQUIRE REVISED WATER AND SEWER CONNECTION TO THE OFFICE. THIS IS DETAILED IN THE SDP.

DRENNER CONCRETE

TM 48, PARCEL 13, GRID 007 CONTRACT NO. 44-5205-D

scale

AS SHOWN

SIXTH ELECTION DISTRICT HOWARD COUNTY

12.28.23 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BOENDER & ASSOC., INC. 8318 FORREST ST, STE 300 ELLICOTT CITY, MD 21043 (410) 997-0296 Balt. (410) 997-0298 Fax.



proval **SAA** 20-018 REVISION

WATER PLAN AND PROFILE

600' SCALE MAP NO. 41 BLOCK NO. A4